

## **Solicitation OCWUT SE-0059**

# **Emergency Sanitary Sewer Aerial Creek Crossing Replacement**

**Bid Designation: Public**



The City of  
**OKLAHOMA CITY**

**City of Oklahoma City and its Trusts**

## **Bid OCWUT SE-0059**

# **Emergency Sanitary Sewer Aerial Creek Crossing Replacement**

**Bid Number**                    **OCWUT SE-0059**

**Bid Title**                        **Emergency Sanitary Sewer Aerial Creek Crossing Replacement**

**Bid Start Date**                **Jul 23, 2024 11:31:23 AM CDT**

**Bid End Date**                    **Jul 30, 2024 10:00:00 AM CDT**

**Question & Answer**  
**End Date**                        **Jul 25, 2024 12:00:00 PM CDT**

**Bid Contact**                    **Duke Newin**  
    **405-297-2975**  
    **duke.newin@okc.gov**

**Bid Contact**                    **Larry Hare**  
    **405-297-3681**  
    **larry.hare@okc.gov**

**Bid Contact**                    **Dustin Segraves**  
    **405-297-2048**  
    **dustin.segraves@okc.gov**

**Bid Contact**                    **City Clerk**  
    **405-297-2391**  
    **cityclerk@okc.gov**

**Bid Contact**                    **Linda Stewart**  
    **405-297-1982**  
    **linda.stewart@okc.gov**

**Bid Contact**                    **Monica Quinonez**  
    **405-297-2811**  
    **monica.quinonez@okc.gov**

**Bid Contact**                    **Will Huggins**  
    **405-297-3582**  
    **will.huggins@okc.gov**

**Bid Contact**                    **Charity Robertson**  
    **405-297-1532**  
    **charity.robertson@okc.gov**

Bid Contact **Alexia Jones**  
**405-297-2489**  
**alexia.jones@okc.gov**

Bid Contact **Elizabeth Noble**  
**405-297-1056**  
**elizabeth.noble@okc.gov**

Bid Contact **Matt Lemoine**  
**405-297-3513**  
**matt.lemoine@okc.gov**

Contract Duration **One Time Purchase**  
Contract Renewal **Not Applicable**  
Prices Good for **30 days**  
Pre-Bid Conference **Jul 24, 2024 10:00:00 AM CDT**  
**Attendance is mandatory**  
**Location: Windover Dr and Coachlight Dr, Edmond, Oklahoma**

Standard Disclaimer **This site and system is hosted by Oklahoma City through BIDSYNC for use of The City of Oklahoma City and its trusts.**  
**Certain screens and flags may show the name and/or seal of The City; however, such references do not indicate or change the contracting entity.**

Bid Comments **Emergency Sanitary Sewer Aerial Creek Crossing Replacement**  
**Project No. SE-0059**  
**Windover Dr. and Coachlight Dr.**

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**Addendum # 1**

New Documents **SE-0059 Signed addendum.pdf**

**Item Response Form**

Item **OCWUT SE-0059--01-01 - Base Bid: MOBILIZATION**  
Lot Description **Base Bid**  
Quantity **1 lump sum**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
Project Site  
N/A  
Oklahoma City OK 73102  
**Qty 1**

**Description**  
809

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Item **OCWUT SE-0059--01-02 - Base Bid: AUDIO-VIDEO RECORDING PRE- AND POST-CONSTRUCTION**

Lot Description **Base Bid**  
Quantity **1 lump sum**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 1**

**Description**  
109

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Item **OCWUT SE-0059--01-03 - Base Bid: SEDIMENT AND EROSION CONTROL**  
Lot Description **Base Bid**  
Quantity **1 lump sum**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 1**

**Description**  
109

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Item **OCWUT SE-0059--01-04 - Base Bid: TRENCH EXCAVATION AND BACKFILL (0 TO 15 LF)**  
Lot Description **Base Bid**  
Quantity **30 linear foot**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 30**

**Description**  
212

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Item **OCWUT SE-0059--01-05 - Base Bid: EMBEDMENT MATERIAL**  
Lot Description **Base Bid**  
Quantity **10 cubic yard**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 10**

**Description**  
215

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Item **OCWUT SE-0059--01-06 - Base Bid: SANITARY SEWER PIPE (8 INCH PVC)**  
Lot Description **Base Bid**  
Quantity **30 linear foot**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 30**

**Description**  
633

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Item **OCWUT SE-0059--01-07 - Base Bid: AERIAL CROSSING STEEL CASING (1/4-IN THICKNESS) (8-IN CARRIER - INCLUDING PIPE)**  
Lot Description **Base Bid**  
Quantity **40 linear foot**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 40**

**Description**  
641

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Item **OCWUT SE-0059--01-08 - Base Bid: GOUTED RIP-RAP WITH WIRE MESH (SOUTH SIDE)**  
Lot Description **Base Bid**  
Quantity **50 square yard**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 50**

**Description**  
825

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Item **OCWUT SE-0059--01-09 - Base Bid: RIP-RAP (NORTH SIDE - MANHOLE)**  
Lot Description **Base Bid**  
Quantity **20 square yard**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A

Oklahoma City OK 73102  
**Qty 20**

**Description**  
825

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Item **OCWUT SE-0059--01-10 - Base Bid: PIPE STABILIZATION (CONCRETE BLOCK & REBAR)**  
Lot Description **Base Bid**  
Quantity **1 lump sum**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 1**

**Description**  
SPEC

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Item **OCWUT SE-0059--01-11 - Base Bid: G.P.S. AS-BUILT SURVEY**  
Lot Description **Base Bid**  
Quantity **1 lump sum**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 1**

**Description**  
801

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Item **OCWUT SE-0059--01-12 - Base Bid: CLEARING AND GRUBBING**  
Lot Description **Base Bid**  
Quantity **1 lump sum**  
Unit Price   
Delivery Location **City of Oklahoma City and its Trusts**  
[Project Site](#)  
N/A  
Oklahoma City OK 73102  
**Qty 1**

**Description**  
810

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Item **OCWUT SE-0059--01-13 - Base Bid: SOLID SLAB SODDING**  
Lot Description **Base Bid**  
Quantity **1200 square yard**  
Unit Price

Delivery Location

**City of Oklahoma City and its Trusts**

Project Site

N/A

Oklahoma City OK 73102

**Qty** 1200

**Description**

840

**ANTI/NON-COLLUSION AFFIDAVIT**

**BIDDER MUST ELECTRONICALLY COMPLETE AND SIGN DOCUMENT PRIOR TO SUBMITTING IN  
THE ELECTRONIC BID SYSTEM**

**Please be aware that typing in your password acts as your electronic signature,  
which is just as legal and binding as an original signature.**

(See Electronic Signatures in Global and National Commerce Act for more information.)

The following Affidavit is submitted by the Bidder, or Bidder's Authorized Agent:

The undersigned of lawful age, being first duly sworn on oath, affirms and says:

1. The undersigned is the Bidder or the duly authorized agent of the Bidder submitting this competitive bid and as the lawful authority to execute this Affidavit and the attached Bid.

For the purpose of certifying the facts pertaining to the existence of collusion among bidders and between bidders and City or Trust officials or employees, as well as facts pertaining to the giving or offering of things of value to government personnel in return for special consideration in the letting of any contract pursuant to the Bid to which this statement is attached:

2. The undersigned is fully aware of the facts and circumstances surrounding the making of the Bid to which this statement is attached and has been personally and directly involved in the proceedings leading to the submission of such Bid; and
3. Neither the Bidder nor anyone subject to the Bidder's direction or control has been a party:
  - a. to any collusion among bidders in restraint of freedom of competition by agreement to bid at a fixed price or to refrain from bidding;
  - b. to any collusion with any City or Trust official, agent or employee as to quantity, quality or price in the prospective contract, or as to any other terms of such prospective contract; nor
  - c. in any discussion between bidders and any City or Trust official, agent or employee concerning exchange of money or other thing of value for special consideration in the letting of a contract.

4. The undersigned certifies, if awarded this contract, whether competitively bid or not, neither the Bidder nor anyone subject to Bidder's direction or control has paid, given, or donated or agreed to pay, give or donate to any officer or employee of the City or Trust any money or other thing of value, either directly or indirectly, in procuring this contract.

***This Bid will not be considered unless  
this form has been fully completed and signed and certified by the Bidder.***

Name of Individual, Partnership, Limited Liability  
Company, or Corporation herein called Bidder

Type Name of Authorized Agent

Title of person who signed above

This Affidavit required for Public Improvement Projects by 61 Okla. Stat. 2011 § 115.

**BIDDER MUST ELECTRONICALLY COMPLETE AND SIGN DOCUMENT PRIOR TO SUBMITTING IN  
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as an original signature.**

(See Electronic Signatures in Global and National Commerce Act for more information.)



**BUSINESS RELATIONSHIP AFFIDAVIT**

**BIDDER MUST ELECTRONICALLY COMPLETE, SIGN AND NOTARIZE THIS DOCUMENT  
PRIOR TO SUBMITTING IN THE ELECTRONIC BID SYSTEM**

**Please be aware that typing in your password acts as your electronic signature, which is just as  
legal and binding as an original signature.**

**(See Electronic Signatures in Global and National Commerce Act for more information.)**

The undersigned as Bidder or Bidder's Authorized Agent, being of lawful age and being first duly sworn on oath, hereby swears, affirms and states that the undersigned has thoroughly read and understands the provisions and terms of this Business Relationship Affidavit and is fully knowledgeable of Bidder's and its officers' and directors' business relationships and associations and hereby affirmatively so states that as a part of this Bid.

The undersigned as Bidder or Bidder's Authorized Agent further swears, affirms, and states that the Bidder does not have any partnership, joint venture, or other business relationship presently in effect or which existed within one (1) year prior to the date of this sworn statement and has not had any such relationship with the architect, the engineer, or any other party to this project **except, if any, as stated on the lines below.**

The undersigned as Bidder or as Bidder's Authorized Agent further swears, affirms, and states that no officer or director of the Bidder has a partnership, joint venture, or other business relationship presently in effect and no officer or director of the Bidder has had any such relationship within one (1) year prior to the date of this sworn statement with any officer or director of the architectural or engineering firm or other party to this project **except, if any, as stated on the lines below.**

If Bidder or any of its officers or directors has or within the one (1) year prior to the date of this statement has had any such relationships, the Bidder or Bidder's Authorized Agent must state the names of all persons having such business relationships and the positions they hold or held with the Bidder and/or their respective companies or firms **on the lines provided below:**

.....  
.....

**(THE BIDDER MUST STATE ANY BUSINESS RELATIONSHIP MEETING THE ABOVE DESCRIPTION ON THE LINES ABOVE, IF NO DISCLOSURE IS MADE ON THE ABOVE LINES THEN BIDDER WILL BE IRREFUTABLY DEEMED TO HAVE STATED AND SWORN UNDER PENALTY OF LAW THAT BIDDER AND ITS OFFICERS OR DIRECTORS HAS NO SUCH RELATIONSHIPS.)**

***This Bid will not be considered unless this form has been fully signed by the Bidder, and notarized, dated and completed by the Notary Public.***

The undersigned, as Bidder or Bidder's Authorized Agent, hereby expressly adopts and affirmatively incorporates herein by reference the above recitation as the sworn statement of the Bidder and the signatory.

.....  
Name of Individual, Partnership, Limited Liability  
Company, or Corporation herein called Bidder

.....  
Type Name of Authorized Agent

.....  
Title of person who signed above

STATE OF )

COUNTY OF

) ss.

)

Signed and sworn to or affirmed before me on this

day of

20

by the above named Bidder or Bidder's Authorized Agent.

My Commission expires:

Type Name of Notary Public

My Commission number

This Affidavit required for Public Improvement Projects by 61 Oklahoma Statutes 2011 § 108.

**BIDDER MUST ELECTRONICALLY COMPLETE, SIGN  
AND NOTARIZE THIS DOCUMENT  
PRIOR TO SUBMITTING IN THE ELECTRONIC BID SYSTEM**

**Please be aware that typing in your password acts as your electronic signature, which is just as legal and binding as an original signature.**

(See Electronic Signatures in Global and National Commerce Act for more information.)

"For Reference Only, Sign Electronic Version."

**EMERGENCY SANITARY SEWER AERIAL CREEK CROSSING  
REPLACEMENT  
PROJECT NO. SE-0059**

**WINDOVER DR AND COACHLIGHT DR (EDMOND)**

**BIDS TO BE OPENED ON**  
**Tuesday, July 30, 2024 @ 10:00 AM**

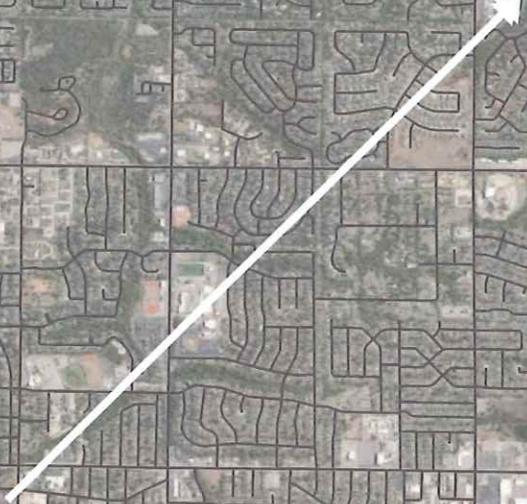
**QUESTION AND ANSWER DEADLINE**  
**Thursday, July 25, 2024 @ 12:00 PM**

**PRE-BID MEETING**  
**Wednesday, July 24, 2024 @ 10:00 AM**

*There will be a mandatory pre-bid meeting for this project held at the work site location, bidders are required to attend. Bidders are reminded of their responsibility to familiarize themselves with all details of the Bidding Documents prior to submitting their bid.*

**Utilities Department – Engineering  
420 W. Main, Suite 500  
Oklahoma City, OK 73102  
(405) 297-2975**

**PROJECT LOCATION**



NE 150TH ST

N KELLEY AVE

N SANTA FE AVE

E MEMORIAL RD

N EASTERN AVE

N BRYANT AVE

N GOLTRANE RD

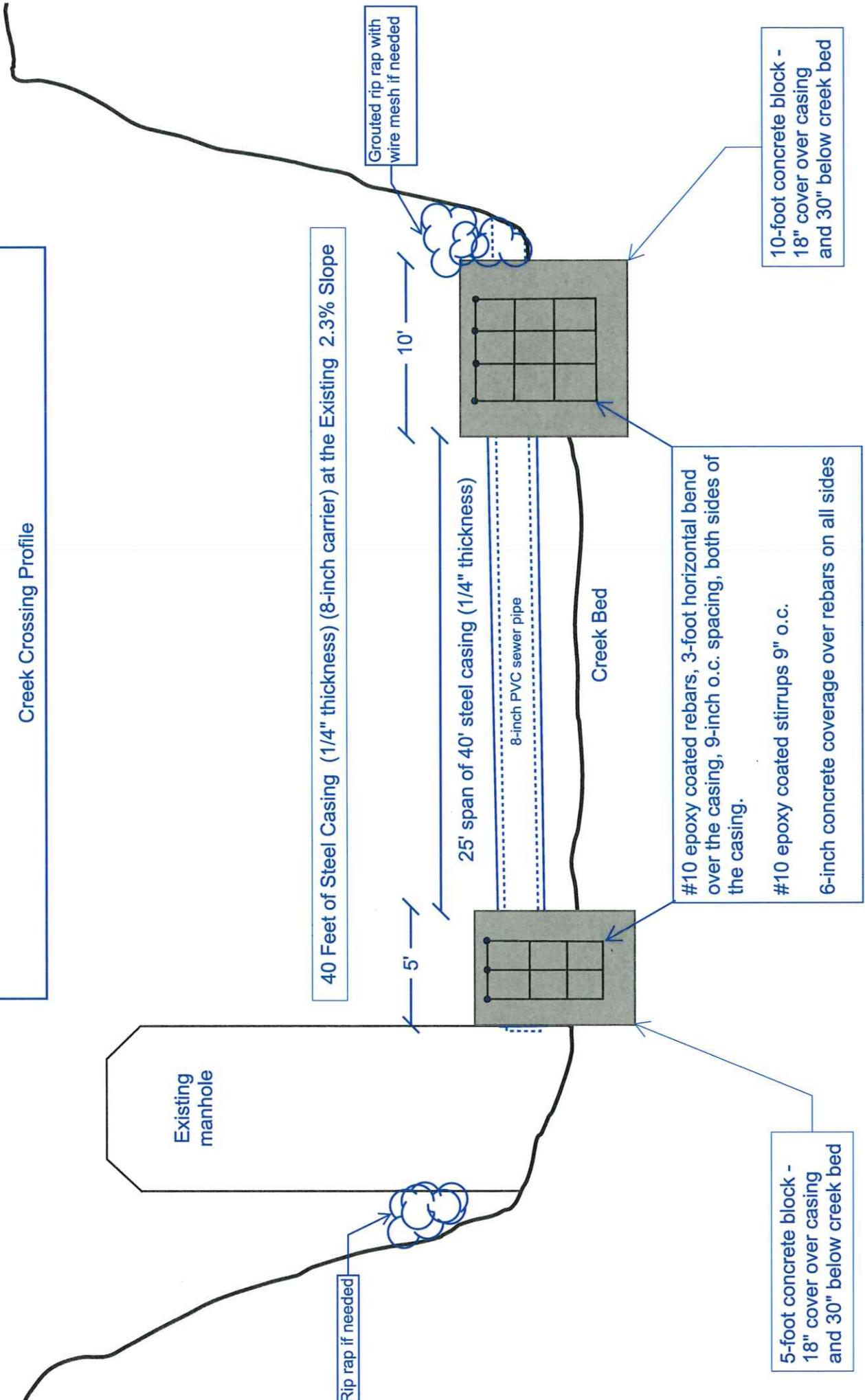
NE 122ND ST

NE 122ND ST

N SOONER RD

N AIR DEPOT BLVD

**PROJECT SE-0059**  
**EMERGENCY SANITARY SEWER AERIAL CREEK CROSSING REPLACEMENT**  
 Creek Crossing Profile



40 Feet of Steel Casing (1/4" thickness) (8-inch carrier) at the Existing 2.3% Slope

5'

10'

25' span of 40' steel casing (1/4" thickness)

8-inch PVC sewer pipe

Creek Bed

Rip rap if needed

GROUTED RIP RAP WITH WIRE MESH IF NEEDED

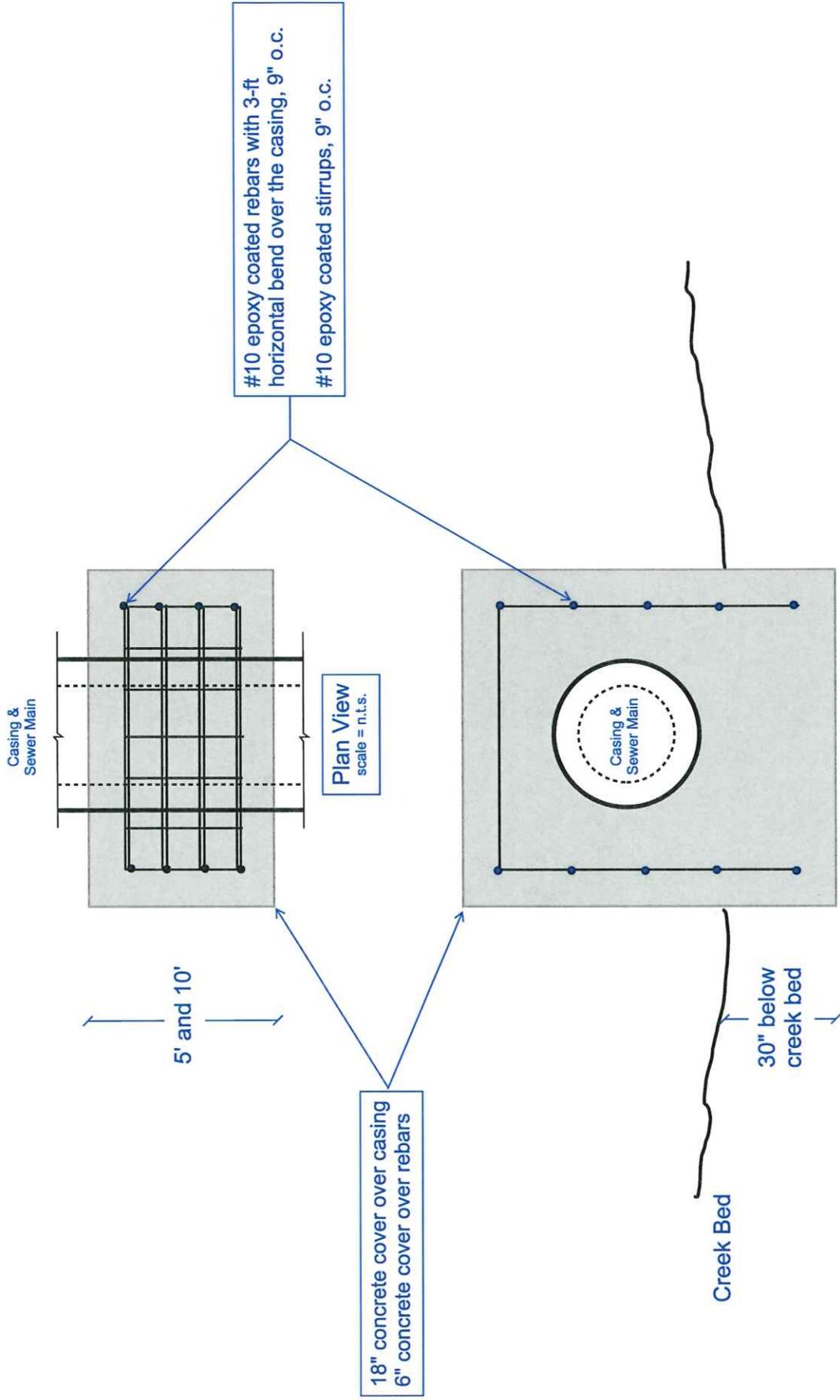
5-foot concrete block - 18" cover over casing and 30" below creek bed

#10 epoxy coated rebar, 3-foot horizontal bend over the casing, 9-inch o.c. spacing, both sides of the casing.  
 #10 epoxy coated stirrups 9" o.c.  
 6-inch concrete coverage over rebar on all sides

10-foot concrete block - 18" cover over casing and 30" below creek bed

**PROJECT SE-0059**  
**EMERGENCY SANITARY SEWER AERIAL CREEK CROSSING REPLACEMENT**

**Concrete Block Details**



Emergency Sanitary Sewer Aerial Creek Crossing Replacement				
PROJECT NO. SE-0059				
Windover Dr and Coachlight DR (EDMOND)				
ITEM NO.	SECTION	DESCRIPTION	QTY	UNIT
1	809	MOBILIZATION	1	LS
2	109	AUDIO-VIDEO RECORDING PRE- AND POST-CONSTRUCTION	1	LS
3	109	SEDIMENT AND EROSION CONTROL	1	LS
4	212	TRENCH EXCAVATION AND BACKFILL (0 TO 15 LF)	30	LF
5	215	EMBEDMENT MATERIAL	10	CY
6	633	SANITARY SEWER PIPE (8 INCH PVC)	30	LF
7	641	AERIAL CROSSING STEEL CASING (1/4-IN THICKNESS) (8-IN CARRIER - INCLUDING PIPE)	40	LF
8	825	GOUTED RIP-RAP WITH WIRE MESH (SOUTH SIDE)	50	SY
9	825	RIP-RAP (NORTH SIDE - MANHOLE)	20	SY
10	SPEC	PIPE STABILIZATION (CONCRETE BLOCK & REBAR)	1	LS
11	801	G.P.S. AS-BUILT SURVEY	1	LS
12	810	CLEARING AND GRUBBING	1	LS
13	840	SOLID SLAB SODDING	1200	SY

**INCIDENTALS:**

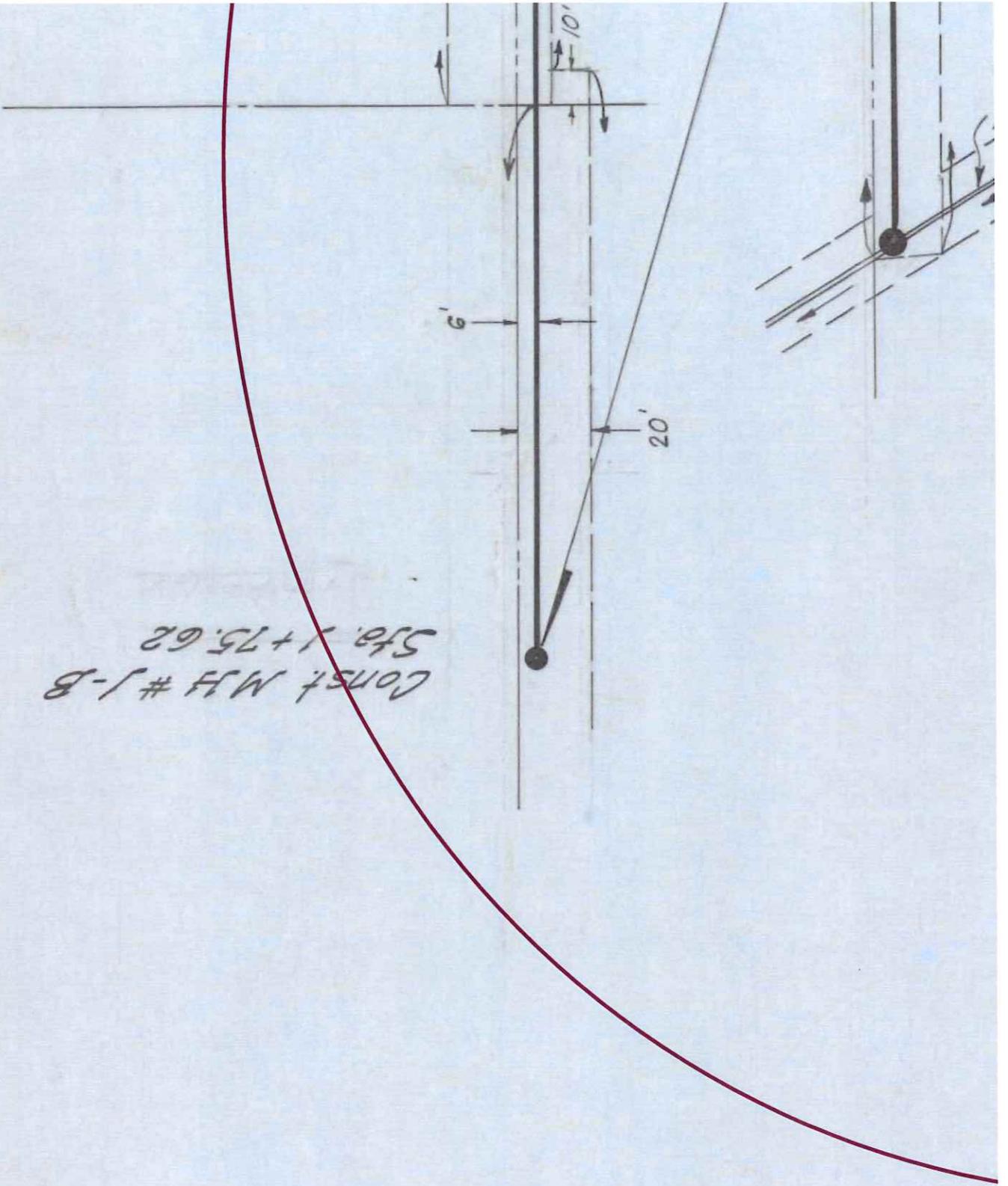
Dewatering, Sewer flow control, Bypass pumping  
 Plugging existing pipe for sewer flow control  
 Pipe connections (connection to existing 8-inch & manhole)  
 Project area restoration (including fences, gates, and landscaping)  
 Removal and disposal of existing sewer main and other construction debris  
 Clearing and grubbing (**includes tree removal**)  
 All required permits

**NOTES:**

Sod all disturbed areas.  
 Restore any fences, gates, landscaping, driveways or trees to pre-construction or better condition.  
 All Construction and materials shall be in accordance with the most recent version of the City of Oklahoma City Standard Specifications and shall be under the supervision of the City Engineer of the City of Oklahoma City or his representative.

**Contract Duration - 45 Calendar days.**

Const MH #1-B  
Sta. 1+75.62



The Oklahoma City Water Utilities Trust

**SPECIAL PROVISIONS – SANITARY SEWER**

**Project No. SE-0059**

**Emergency Sanitary Sewer Aerial Creek Crossing Replacement**

**Windover Dr. and Coachlight Dr. (EDMOND)**

**1. SCOPE:**

The Work herein contemplated consists of furnishing all labor, materials, equipment, transportation, and incidentals necessary and required for the complete installation of mains and appurtenances. This will include, but not limited to the following major items and appurtenances.

- (1) Sewer Main and Sewer Aerial Crossing replacement
- (2) Connection to Existing Manhole
- (3) Bypass Pumping During Construction
- (4) Right-of-Way Restoration and Cleanup
- (5) Provide “As-Built” Plans with GPS As Built Survey

**2. PRE-BID CONFERENCE:**

A mandatory pre-bid meeting will be held on location Wednesday July 24<sup>th</sup>, 2024 @ 10:00AM.

**3. BID REJECTION:**

The Oklahoma City Water Utilities Trust (OCWUT) reserves the right to reject any part or parts of the bid or reject all bids.

**4. BIDDERS PRE-QUALIFICATION:**

For this project, Contractor must be Prequalified as listed by the Prequalification Review Board under the provisions of Ordinance No. 26,614 approved by City Council on December 8, 2020. The Prequalification areas acceptable for this project are as follows:

Pre-qualified in the area of Wastewater Facilities Contractor “C” (2020).

**5. BIDDERS INSPECTION OF THE PROJECT SITE:**

All bidders must examine the Project location and be informed about the condition affecting the Work prior to submittal of their bids.

**6. CONTRACTORS RESPONSIBILITY FOR TIMELY AND FULLY PROVIDING THE PROJECT AND ALL WORK AT BID PRICE(S)**

The provision of this Special Provision are complementary to the Standard Specifications for Construction of Public Improvements and only supersedes and takes precedence over any provision in the Standard Specifications for Construction of Public Improvements

which conflict with or diminish the effect of this Special Provision.

The Contractor is solely responsible for securing the timely purchase and provision of all materials and equipment. The Contractor must contract, in writing, with subcontractors, and with material and equipment suppliers for the timely manufacture, supply, and delivery of all materials and supplies. It is the duty of the Contractor as part of its bidding process and as part of calculating its bid to identify and select subcontractors and material and equipment suppliers that can and will timely and fully perform the Work. It is the responsibility of the Contractor to include any risk of delay and of cost increases in its bid. Submission of a bid is a statement by the Contractor that the Contractor has contracted for firm fixed prices from subcontractors and for the material and equipment necessary for the Project. It is the duty of the Contractor to negotiate and enforce a fixed price contract with subcontractors and with material and equipment suppliers and to enforce timely delivery. Neither The City nor OCWUT will pay any additional compensation for changes in prices of materials or equipment nor grant additional time for delays in provision of materials or equipment based upon claims of force majeure or supplier nonperformance or delay. Neither the City nor OCWUT will be responsible for paying any additional compensation for delays caused by or claimed by Contractor's or its subcontractors or suppliers. If Contractor cannot submit a bid that includes firm fixed prices and timely delivery from its subcontractors and suppliers, then the Contract should not bid as a bid will be deemed an admission and a statement by the Contractor that Contractor and its chosen subcontractors and suppliers can fully and timely perform for the bid price.

**7. DISCRIMINATION:**

Contractor is prohibited from discriminating in employment practices during the performance of this Contract with the OCWUT. No Contract will be executed until the Contractor has signed the Certificate of Non-Discrimination included in the Specifications attached hereto and can be found on page CND1.

**8. EQUAL OPPORTUNITY IN EMPLOYMENT**

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age or handicap. Bidders on this Work will be required to comply with the President's Executive Order No. 11246, as amended.

**9. MEETINGS**

All meetings scheduled by the Engineer and/or OCWUT, including the mandatory pre-bid meeting, must be attended by the Contractor's superintendent or qualified representative who is authorized to discuss and make binding decisions regarding the Project.

**10. QUANTITIES**

The Contractor or his authorized representative must at the end of each day establish and agree with the Inspector the amount of the quantities which cannot be measured when the job is completed. These quantities are to be entered in the Inspector's daily report and shall be the basis for the final estimate.

**11. MEASUREMENT AND PAYMENT – UNIT BID PAY ITEMS**

The quantities shown for unit bid pay items are estimated and are for the purpose of comparing bids. The OCWUT reserves the right to direct that additional or reduced quantities of any Bid Item be furnished. Contractor will be paid at the unit bid pay item price for actual quantities installed in accordance with the direction of the Engineer. The OCWUT is not obligated to use the total quantities listed of the unit bid pay items listed in the Bid Form. The OCWUT may request deletion or reduction of all or any portion of the quantities estimated in the respective Bid Items. The Contractor shall not be entitled to payments for these items unless specifically authorized in writing by the Engineer. The Contractor agrees that it will make no claim for damages, anticipated profits, or otherwise on account of any difference between the amounts of materials, equipment, or Work actually performed or for the estimated amounts thereof.

**12. INCIDENTAL WORK**

Any item not covered in the Standard Specifications or these special provisions and **NOT** shown in the summary of quantities shall be considered as incidental construction for which the Contractor is responsible and shall not receive additional payment.

**13. WATER CONSERVATION**

On April 30, 2013, the City of Oklahoma City adopted a resolution establishing a permanent mandatory water conservation program restricting watering to every other day with properties with odd numbered addresses being permitted to water only on odd numbered days and properties with even numbered addresses being permitted to water only on even numbered days. These conservation restrictions are applicable to City and OCWUT projects and Contractors just as they are applicable to Oklahoma City citizens. See details at <http://www.squeezeeverydrop.com>

Provided, however, the City of Oklahoma City also set up a variance program for new landscaping. Contractor will be responsible for timely obtaining and, if and as granted, for compliance with the variance program requirements. See details at <https://okc.gov/departments/utilities/squeeze-every-drop/water-conservation-program/variance-program>. Failure to comply with the conditions and requirements of the mandatory water conservation restrictions or the variance may result in the receipt of a citation and/or the revocation of the variance.

**14. SUPERVISION:**

Notwithstanding any requirement to perform work for the Project, neither the OCWUT nor the City of Oklahoma City will recognize any subcontractor on the Work. The Contractor shall at all times when Work is in progress be represented at the project site of the Work either in person or by a qualified and approved superintendent who shall be in direct charge of all operations on the Contract.

**15. PROJECT SCHEDULE**

The Contractor shall furnish the Engineer with a Project Schedule, in Microsoft Project, Primavera, or any other format approved by the Engineer, setting forth in detail the procedure it proposes to follow, and giving the dates on which it expects to start and to

complete separate portions of the Work. If at any time, in the opinion of the Engineer, proper progress is not being maintained, the Contractor may make such changes in the schedule of operations which will satisfy the Engineer that the Work will be completed within the period stated in the Specifications, or extension thereof made as herein provided. The schedule must be updated monthly by the Contractor, with each Contractor invoice and submitted to the Engineer for review and approval. Failure to provide monthly updates to the schedule will result in a delay of processing the Monthly Pay Estimate until the update is received, reviewed and accepted.

**16. SCHEDULE OF OPERATIONS:**

A complete schedule of material and equipment delivery and operations shall be submitted to the Engineer by the Contractor before beginning any Work. The Engineer will coordinate all operations and the Contractor hereby agrees to give his full cooperation.

**17. WORK PERMITS**

No Work shall begin until all licenses and permits have been obtained. Permits to include but not limited to the following:

- A. Work Zone Permit  
Oklahoma City Public Works  
Traffic Management Division  
420 W. Main, Suite 600  
Oklahoma City, OK 73102  
Ph: 405.297.2531
  
- B. Storm Water Quality Permit  
Oklahoma City Public Works  
Storm Water Quality Division  
420 W. Main, Suite 700  
Oklahoma City, OK 73102  
Ph: 405.297.3542
  
- C. ODEQ permit(s) – if required  
Oklahoma Department of Environmental Quality  
Water Quality Division  
700 N. Robison Ave  
Oklahoma City, OK 73102  
Ph: 405.702.8100
  
- D. Building permit(s) – if required  
Oklahoma City Development Services  
Development Center  
420 W. Main, Suite 800  
Oklahoma City, OK 73102  
Ph: 405.297.2948

All applicable permits must be closed as a condition of Final Acceptance, including but not limited to obtaining the Certificate of Occupancy

**18. STORM WATER EROSION AND SEDIMENT CONTROL PROCEDURES**

The Contractor is required to file a Notice of Intent (NOI) for Storm Water Discharges associated with construction activity to be covered under an OPDES Permit, OKC-SWQ Form C1, two (2) days prior to commencement of Work.

This requires that the Contractor complete an NOI, Site Plan, and Storm Water Pollution Prevention Plan. Copies of forms and instructions may be obtained from:

Oklahoma City Public Works  
Storm Water Quality Division  
420 W. Main, Suite 700  
Oklahoma City, OK 73102  
Ph: 405.297.3542

**19. TIME OF COMPLETION REPORTS AND CLAIMS PAYMENT PROCESSING:**

This "Time of Completion Report" form shall be used in determining the number of calendar days charged on the Project, timely completion of the job, and assessment of liquidated damages in the event the Project is not completed on time. The Contractor must also include in its "Time of Completion Report" notations of any change or amendment items and notations of any site conditions or issues affecting the time of completion.

The Contractor must complete the "Time of Completion Report" form provided by the City. The form must be reviewed and signed by the on-the-job Inspector assigned to the Project by the City. Submittal by the Contractor and execution by the assigned Inspector shall constitute an agreement as to the number of days used in that period. The completed and signed "Time of Completion Report" must be attached to the monthly claim form and approved by the project manager before any claim shall be processed or paid for supplies, equipment, or work provided during that period.

All Uniform Vouchers and Invoices for this OCWUT Project shall be delivered to the following address for processing:

*Attn: OCWUT Support*  
City of Oklahoma City  
Email: [ocwut-support@okc.gov](mailto:ocwut-support@okc.gov)

If electronically signed copies of the Uniform Vouchers and Invoices are submitted, please email them. If hard copies are submitted, please submit two (2) copies of Uniform Vouchers and Invoices.

**20. ELECTRONIC SIGNATURES**

The City and OCWUT have adopted an electronic docketing system for the review and approval of contracts, bonds, and other legal documents. The parties acknowledge that the City and OCWUT have authorized electronic signatures to be affixed to legal documents. The parties agree that legal documents with electronic signatures affixed by authorized representatives of the City and OCWUT, respectively, are deemed to be valid original documents enforceable by and binding upon the parties.

**21. TESTING:**

- A. All tests will be in accordance with the appropriate specifications.
- B. All costs of conducting tests on materials which meet specification requirements will be paid by the City.
- C. All costs of conducting tests on materials which do not meet specification requirements will be deducted from Contractor's Uniform Vouchers and Invoices for cost reimbursement.

**22. CORRECTION OF WORK AFTER FINAL PAYMENT:**

Neither the final certificate nor payment nor any provision in the Contract Documents will relieve the Contractor of responsibility for defective materials or workmanship; and unless otherwise specified, Contractor must remedy any defects due thereto and pay for any damage to other work resulting therefore, which appears or is identified within a period of two (2) years from the date of formal acceptance by the City. The City will give notice of observed defects with reasonable promptness.

**23. EXISTING UTILITIES**

All known utilities have been shown on the plans. The Contractor must expose all utilities and verify their location and elevation with the Engineer. Any unknown utilities that are encountered must also be exposed and verified by the Contractor with the Engineer. No additional compensation or contract time will be provided for delays by exposing or verifying known or unknown utilities.

**24. UTILITY VERIFICATION:**

The Contractor is responsible for the actual field location of all existing utilities and any other facilities which may be in the vicinity of the Work and must notify the owners of said utilities and facilities of work in the area prior to commencement of the Work. The Contractor shall be solely responsible for any damage to any existing utilities and facilities caused by the construction.

**25. UTILITY NOTIFICATION:**

The Contractor must notify the owners of all existing utilities and facilities conflicts with the proposed construction before the commencement of the Work. The following utilities but not limited to, shall be notified:

Cox Cable (Engineering Department) – (405) 525-2771  
AT & T - (405) 840-5032  
Oklahoma Natural Gas Company – (405) 556-6411 or (405) 556-6401  
Oklahoma Gas and Electric Company – (405) 553-5843  
Utilities Department (405) 297-2422  
Public Works (405) 297-2581

**26. PUBLIC CONVENIENCES AND SAFETY:**

Materials stored about the project site must be so placed and the Work shall at all times be so conducted as to cause no obstruction to the traveling public except as approved by the City Engineer in a Work Zone Permit. The Contractor must make provisions at all cross streets, highways, sidewalks, and private driveways for the free passage of vehicles and sidewalks, and private driveways for the free passage of vehicles and pedestrians, provided that, where bridging is impractical or unnecessary, in the opinion of the City Engineer, the Contractor must make arrangements satisfactory to the City Engineer for the diversion of traffic and must, at his own expense, provide all materials and perform all Work necessary for the construction and maintenance of such roadway and bridges for the diversion of traffic. The Contractor must notify the Fire Department headquarters, Post Office, and Solid Waste Department when any street is closed or obstructed that will disrupt services of these departments and functions. When directed by the City Engineer, the Contractor will keep any streets in condition for unobstructed use of fire apparatus.

**27. PROTECTION OF EXISTING STRUCTURES:**

The Contractor must provide all necessary sheeting, shoring, and other bracing and supports to protect existing structures, facilities and improvements adjacent to the construction. This Work and any expense or cost is incidental to the Work and Project, will not be paid for separately, and must be included by the Contractor in the unit bid pay item price for other items.

**28. PROTECTION AND RESTORATION OF PROPERTY:**

The Contractor may not enter upon private property for any purpose without first obtaining permission from the property owner. Contractor is responsible for the preservations of private property. Contractor will use every precaution necessary to prevent damage to all trees, fences, culverts, bridges, pavements, driveways, sidewalks etc. to all water, sewer, gas, or electric lines or appurtenances and to all other public or private property, facilities and improvements along within, or adjacent to the Work. The Contractor must notify the proper representatives of any public service or utility corporation and company, or any individual not less than twenty-four (24) hours in advance of any Work which may damage or interfere with the operation of such property, along, within, or adjacent to the Work. Contractor is responsible for all damage or injury to property, or any character resulting from an act, omission, neglect, or misconduct in the manner or method of executing the Work or Project. When and where any such direct or indirect damage or injury is done to public or private property due to an act, omission, neglect, or misconduct in the execution of Work or the non-execution of the Work or Project, the Contractor must restore at his expense, such property to a condition similar or equal to that existing before such damage or injury was done, by repairing, rebuilding, replacing, or restoring such property as may be directed or the Contractor must make good for such damage or injury by payment of damages or in an acceptable manner.

**29. ADJUSTMENT OF EXISTING STRUCTURES:**

The Contractor must make all necessary adjustments, alterations, relocating or resetting to the required grade and/or alignment of existing structures, facilities, improvements, equipment or appurtenances which are not to be removed or abandoned, in accordance with these Specifications and conformity with the lines, grades, elevations, and dimensions shown on the Plans or as may be established by the Engineer in a Change

Order.

**30. UTILITY ALTERATION:**

When an Oklahoma City utility asset alteration is a part of the Work to be performed by the Contractor as a part of this Contract, such Work shall be done in conformity with the requirements of the Standard Specifications for new work of this type. The cost of any such alteration must be included by the Contractor in cost of other items, unless otherwise expressly shown in the Detailed Bid Form.

**31. STORM SEWER PIPES**

The cost of repair or re-laying of any storm sewer pipe encountered during construction shall not be paid for separately, unless otherwise specified and a detailed bid item has been established in the Detailed Bid Form. Such compensation shall be included in the cost of other items.

**32. SPECIFIC REQUIREMENTS**

- A. Pipe Installation - Bedding requirements for flexible and rigid pipe are given in Section 200 of the Standard Specifications. For flexible pipe, the embedment material is to be placed from a minimum of six (6") inches below bottom of pipe and to a minimum of six (6") inches above top of pipe. For rigid pipe, the embedment material is to be placed from a minimum of six (6") inches below bottom of pipe to the springline.
- B. Manholes - Where manholes are to be located in the street, they shall be flush with the pavement and provided with non-vented, watertight lids with rain guard protectors. Elevations provided on the plans are approximate and the actual Top of Rim elevations shall be determined in the field.
- C. Service Connections – Where HDPE pipe is used in "Trenchless" construction the service connections shall be made using Electrofusion Bonded Gasketed Sewer Saddles. Service connections on new PVC pipe installed using "Open Cut" construction shall be made using Wye Branch fittings. All service connections shall be done external to the pipe. No internal connections shall be allowed.

**33. CLEARING & GRUBBING**

The cost of tree removal shall be included in the price bid for "Clearing and Grubbing," and shall be incidental to construction. Boring under large trees will be allowed as an alternate method in lieu of trenching. Should boring be used, the Contractor shall not be paid for additional work involved. The payment for the additional work involved in the boring method shall be included in "Clearing & Grubbing".

The removal and replacement of all fences shall be included in the unit price bid for "Clearing and Grubbing" and shall not be paid for separately. The removal and/or replacement of miscellaneous footings, walls, sidewalks, concrete and brick planters, sheds, concrete pads, landscape timbers, steps, portable buildings, and other items shall also be included in the unit price bid for "Clearing and Grubbing" and shall not be paid for separately. All temporary fencing, if required, shall also be included.

The Contractor must use every precaution necessary to prevent damage to all trees, shrubs, fences, sidewalks, driveways, pavement, etc. adjacent to the line of construction and outside the Project site. The Contractor must repair or replace all damaged property at Contractor's own expense. Where sidewalks and paved driveways are to be removed and replaced, Contractor will be paid at the unit bid item price for such items. Gravel or dirt driveways must be restored to the equal or better than original condition and cost of same are incidental work which must not be paid for separately, but will be included by Contractor in unit bid item prices for other items. Contractor is responsible for removing and resetting all existing fences, mailboxes, and clothesline poles in a condition equal to or better than those existing at the time of construction.

**34. REMOVAL OF DEFECTIVE AND UNAUTHORIZED WORK:**

All Work which has been rejected or condemned or which is defective must be repaired or if it cannot be satisfactorily repaired it must be removed and replaced at the Contractor's expense. Defective, rejected, and condemned materials must be removed immediately from the Project Site.

Work done without lines and grades; work done beyond the lines or not in conformity with the grades shown on the plan; work done without proper inspection; or any extra or unclassified work done without written authority by a prior change order or amendment will be considered unauthorized. Unauthorized work will not be measured or paid. Unauthorized work may also be ordered removed at the Contractor's expense.

If the Contractor fails to immediately and satisfactorily repair or remove and replace, any rejected, defective, unauthorized, or condemned work or materials, OCWUT will, after giving written notice to the Contractor, have the authority to have defective work remedied or removed and replaced by others and will deduct the cost thereof from any compensation due to the Contractor. At OCWUT's sole discretion, OCWUT may accept rejected, defective, unauthorized or condemned work or materials and make an equitable deduction from the contract price or payment due the Contractor.

**35. DRIVEWAY AND STREET BORE:**

Driveways which are indicated to be bored shall be accomplished without casing, unless otherwise indicated on the construction plans. Payment for driveway bore is limited to the length of bored driveway without casing as shown on the project plans. Payment for driveway bore is limited to the width of the bored driveway plus five (5) feet additional on each side of driveway.

**36. SURVEYING**

The contractor will be responsible for all construction staking, preliminary surveying and final measure. A registered professional Land Surveyor in the State of Oklahoma shall be hired by the Contractor to perform work required above. All surveying information, control points, elevations, gradients, etc., shall be submitted to the Project Engineer for review and approval. All costs associated with surveying shall be included in the cost of other items and will not be paid for directly.

**37. TRENCHLESS CONSTRUCTION**

“Formed in Place Pipe” and “Pipe Bursting” shall be considered Trenchless Construction in accordance to the Standard Specifications. Service Connections for “Formed in Place Pipe” shall be connected externally. No internal service connections for “Formed in Place Pipe” shall be permitted. The price established for “Trenchless Construction (8” pipe)” shall be full compensation for furnishing and operation of all equipment, labor, tools, and incidentals necessary to complete this item of work.

**38. COLOR AUDIO-VIDEO OF PRECONSTRUCTION, FINAL RECORD  
(RECORDED DIGITALLY ON DVD)**

**Scope**

Prior to commencing Work, the Contractor shall have a continuous color audio-video recording, recorded digitally on DVD, and made of the entire project in a manner that logically follows the entire project path in a continuous manner. The Contractor shall have a color audio-video recording, recorded digitally on DVD, made of the entire project at completion. These recordings will serve as a record of pre-construction and final conditions. Contractor must submit two (2) copies, one (1) copy to the project Engineer and one (1) copy to Inspection Services for these phases of Audio-Video recording.

**Professional Electrographers**

The Contractor shall engage the services of a professional electrographer. The color audio-video DVD shall be prepared by a responsible independent commercial firm known to be skilled and regularly engaged in the business of pipeline construction color audio-video (DVD) documentation.

**Equipment**

All equipment, accessories, materials and labor to perform this service shall be furnished by the Contractor.

The total audio-video system shall reproduce bright, sharp, clear pictures with accurate colors and shall be free from distortion, tearing, rolls, or any other form of imperfections. The audio portion of the recording shall reproduce the commentary of the camera operation with proper volume, clarity and be free from distortion and interruptions.

**Recorded Information-Audio**

Each DVD shall begin with the current date, project name and municipality and be followed by the general location, i.e., viewing side and direction of progress. The audio tract shall consist of an original live recording. The recording shall contain the narrative commentary of the electrographer, recorded simultaneously with his video of the zone of influence of construction.

**Recorded Information-Video**

All video recordings shall begin by displaying digital information to include the date and time of recording. The date information shall contain the month, day and year.

Additional information shall be displayed periodically. Such information shall include, but not be limited to, project name, contract number, direction of travel and the viewing side.

### **Lighting**

All video recording shall be done during times of good visibility. During precipitation, mist or fog, artificial light shall be provided to properly illuminate the objects.

### **Speed of Travel**

The rate of speed in the general direction of travel used during video recording, as well as panning and zooming rates, shall be sufficiently controlled to maintain a clear view of the objects.

### **Area of Coverage**

Video recording coverage shall include all surface features located within the zone of influence of construction supported by appropriate audio coverage. Such coverage shall include, but not be limited to, existing driveways, sidewalks, curbs pavement, ditches, landscaping, culverts, fences and headwalls within the area covered. Video recording coverage also shall include of water main, tapping and service connection.

## **39. GPS "AS-BUILT" SURVEY**

The Contractor must provide a complete GPS "As-Built" Survey for every one hundred feet (100') along the alignment of the Project, and, coordinates of the valves, fire hydrants, existing water meters, and similar appurtenances. Complete As-Built plans, AutoCad drawing and coordinates data sheet must be submitted by Contractor to the Project Engineer for approval with the final claim. This task must be performed by a registered professional land surveyor in the State of Oklahoma. Data submitted must be tied to Oklahoma State Plane Coordinate System.

The final claim will not be paid without complete and approved GPS "As-Built" survey.

## **40. STORED MATERIALS AND EQUIPMENT**

The quantities shown in these specifications are estimated quantities. **The Contractor will be responsible for documenting and verifying the actual amount of materials necessary for completion of the Project.** OCWUT, upon verification and approval, will pay the suppliers invoice price for stored materials up to but not in excess of the estimated amount per bid item. OCWUT does not pay directly for items including tax, shipping, handling, fees, etc.; these costs must be accounted for and included in the unit bid item price for the stored materials. Suppliers' Invoices of stored materials must indicate the same unit as the unit bid item. Stored materials are subject to Sections 109.17.05 and 112.03 of the Standard Specifications for Construction of Public Improvements (latest edition).

The Owner Trust will not pay for stored materials and equipment not installed at the completion of the Project. Any excess stored materials will be deducted from the final

pay claim. Any previous payment by OCWUT for excess stored materials in excess of final claim must be repaid by the Contractor to OCWUT. OCWUT will not pay costs such as return shipping, handling, restocking, etc. of excess stored materials.

Payment will only be made for stored materials, or stored at the Contractor's facility or Project Site and accessible by Inspection Services.

The Contractor must obtain insurance, as evidenced by a certificate of insurance, against damage, loss, and theft of the stored materials in the amount of the value of the materials, the invoice price or the unit bid item price, whichever is highest. The Contractor must provide a copy of the certificate of insurance for all stored materials with the invoice/claim for payment.

**41. PAVEMENT BACKFILL (Type A):**

The sewer main trench at driveways and at pavement cut and permanent repair locations must be backfilled with Type A per Standard Specification 923.01 and placed in 6-inch (6") lifts for hand tamped equipment and thirty-inch (30") lifts for self-propelled or power driven equipment, to obtain full compaction of 95% standard proctor density, prior to replacing the pavement.

The Contractor must collect truck delivery tickets at the job site and obtain the signature of the inspector. These truck delivery tickets will not be the basis for payment to the Contractor. Truck delivery tickets will be used only to confirm delivery to the project site. Backfill material will not be paid directly; cost must be included by contractor in other unit bid item prices.

<u>Nominal Size</u>	<u>Percent Passing</u>
1½ inch	100%
¾ inch	40 to 100%
⅝ inch	30 to 75%
No. 4	25 to 60%
No. 10	20 to 43%
No. 40	8 to 26%
No. 200	4 to 12%

**42. PAVING CUT AND PERMANENT REPAIR:**

In those areas where a pavement cut and repair are indicated on the plans, the Contractor shall remove the pavement in two (2) stages. The first removal shall be to the trench width and made prior to the trench excavation. This cut shall be made in a straight line by using a saw or approved cutting equipment. The second removal shall be a 2-foot wide strip on each side of the sewer main trench. This removal shall be made prior to replacement of the pavement and after the water line construction and backfill is completed. In the second removal, the cut shall be made to a straight line by using an approved saw.

The Portland cement concrete used for pavement replacement shall be constructed of High Early Strength 4000 psi concrete, and shall conform to the Oklahoma City Standard Specifications.

Pavement for the reinforced concrete pavement patch will be made at the unit bid price per square yard, computed on the basis of the specification trench pay width, plus 4' multiplied by the length of the paving replacement involved, which price shall include all the expense involved in furnishing labor, material and equipment required to provide a complete replacement. This item shall be paid for as "Paving Cut and Permanent Repair-Concrete".

**43. TEMPORARY SURFACING (ASPHALT)**

This section covers the placing of temporary surfacing on areas to be used as temporary crossings and temporary routes of ingress and egress to residences and places of business adjacent to or near the Project.

This Work shall be constructed on a prepared sub-grade in reasonably close conformity with the existing surfaces or established by the Engineer. Cross streets, side streets, approach streets, and temporary driveways to residences or places of business shall be shaped to a reasonable cross section to prevent ponding of water. Holes, waves and undulations which develop must be corrected by blading and/or adding more material. The shaping of the surface material shall be continued until it is well-compacted, free from ruts, waves, and undulations.

Excess material not required for maintenance must be removed from the Project site and the site restored to the same condition before construction began.

The completed temporary surface must be maintained in this condition until permanent repairs are constructed. Asphalt must be used as temporary surfacing material. Asphalt material must be type "A" mix placed a minimum of three (3") inches, and compacted on a prepared sub-grade in accordance with the requirements of these Specifications for asphalt paving.

**44. BORES**

All bores constructed in advance of installation of the sewer main by more than 300 linear feet per Section 600.04 of the Standard Specifications will be at the risk of the Contractor. Any re-boring of bores installed ahead for the sewer main installation per above as a result of modifications to the design will be at no additional cost or additional contract time.

**45. REMOVAL AND REPLACEMENT OF DRIVEWAYS:**

Driveways that have been designated in the plans to be removed and replaced, must be removed and replaced from the pavement edge to the first existing pavement joint or the right-of-way on the house side of the new water main. OCWUT reserves the right to direct, by amendment, such additional driveways in the project area be replaced and the Contractor will be paid at the unit bid item price for such items. However, the Contractor is responsible for removing and replacing paving and driveways not designated in the plans that are damaged due to the Contractor's negligence at the Contractor's expense and without payment from OCWUT.

Concrete driveways shall be replaced with 6-inches thick of 4000 psi non-reinforced High Early Strength Portland cement concrete (with appropriate jointing). The trench

shall be backfilled with Type A per Standard Specification 923.01 and will not be paid directly; cost shall be included by the contractor in unit bid item prices. Concrete driveways in the plans will be paid for at the contract unit bid item price per square yard.

The 2-inch sand cushion for driveway replacement as seen on Sheet D-800 (Standard Detail) will not be paid for separately, but will be incidental and included in the unit bid item price per square yard for the quantity of (concrete or asphalt) driveway removed and replaced.

**46. STEEL CASING PIPE:**

Steel Casing Pipe shall conform to Section 528 of the Standard Specifications for Construction of Public Improvements for the City of Oklahoma City. The minimum wall thickness, size and length of the Steel Casing Pipe shall be as shown on the plans.

**47. CASING SPACERS**

The Contractor must use casing spacers with stainless steel bands and risers and runners comprised of a glass-filled polymer as manufactured by Advance Products Systems, Inc., or approved equal. The use of wood skids will NOT be allowed. Grout fill of the annulus inside the steel casing is NOT required for this project. This applies to carrier pipes within bores, aerial crossings, or steel casing installed by open-trench.

**48. BORING TEST HOLE INFORMATION:**

Test hole information, when shown in the Plans or included in the Specifications, shall only represent subsurface characteristics to the extent indicated, and only for the point location of the test hole.

Each Bidder must make his own interpretation of the character and condition of the materials which will be encountered between test hole locations. Each Bidder may, at Bidders own expense, make additional surveys and investigations as the Bidder may deem necessary to determine conditions which will affect performance of the Work. Neither the City nor OCWUT will provide any further test hole information other than what is already represented in the Plans or Specifications.

The Contractor will be responsible for completion of the Work even if subsurface characteristics, rock or other materials are encountered during construction. No additional compensation or contract time will be provided for impacts resulting from subsurface characteristics, rocks or other materials encountered.

**49. SHEETING SHORING AND BRACING:**

A. The sides of all excavations must be sufficiently sheeted, shored and braced whenever necessary of all excavations to prevent slides, cave-ins, settlement or movement of the bank. The Contractor must maintain the excavation clear of obstructions that will, in any way, hinder or delay the progress of the work or endanger workmen. Wood or steel sheet piling designed by the Contractor's registered professional engineer licensed in the State of Oklahoma must be used when necessary. All sheeting, shoring and bracing must have sufficient strength and rigidity to withstand the pressures exerted. The Contractor must maintain the

walls of the excavation properly in place and protect all persons and property from injury or damage.

- B. Whenever excavations are made adjacent to existing buildings or other structures or in paved streets or alleys, the Contractor must take particular care to sheet, shore and brace the sides of the excavation adequately to prevent any undermining of or settlement beneath such structures or pavement.

The Contractor will be liable for and responsible to restore any damage to any structure or injury to any person that results from his operations.

- C. Sheet piling, shoring or bracing materials must not be left in place unless as shown in the plans or permitted by the Engineer. Such materials must be removed in such manner as will not endanger or damage the new structure or any existing structures or property, either public or private, in the vicinity, and must be removed so as to avoid cave-ins or slides. All trench sheet piling and bracing must be left in place until the trench has been backfilled one foot above the top of the pipe.
- D. Sheet piling, shoring and bracing are considered incidental and an integral part of the excavation Work and no specific payment will be made therefore.

**50. DEWATERING EXCAVATION AREAS:**

- A. The Contractor must provide and maintain ample equipment with which to remove all water from every source which enters excavations for structures and pipelines. Dewatering operations must ensure dry excavations and the preservation of the elevations of the bottoms of the excavations shown in the plans. The Contractor will not allow surface water to enter excavated areas.
- B. Where the areas to be excavated are located under water surfaces or near the banks of flowing streams or other bodies of water, the Contractor may adopt and carry out any method of dewatering the Contractor may deem feasible for the performance of the excavation work and for protection of the Work thereafter, provided that the method and equipment to be used results in completed Work which complies with these Specifications and is acceptable to the Engineer. In all cases, the excavation area must be effectively protected from water damage during the excavation period and until all contemplated construction work therein has been completed.
- C. Prior to beginning excavation for structures which are to be constructed at or below the ground water table, the contractor must lower ground water levels and maintain ground water table at a level at least three (3) feet below the bottom of such structures. The lowered ground water level must be maintained until backfill operations and all associated work with the structure and appurtenances has been completed.
- D. The Contractor is responsible for damage to structures caused by hydrostatic displacement during construction operations.

- E. The cost of all temporary construction work necessary to dewatering excavated areas, including but not limited to the costs of placing and removing sand bags, coffer dams, sheet piling, excavation and backfill is considered incidental and an integral part of the cost of excavation and no separate payment will be made therefore.

## **51. BACKFILLING TRENCHES:**

Contractor obligations for backfilling trenches;

- A. After a section of pipe is properly installed and approved for backfill, the trench shall be backfilled with a select backfill and compacted to depths as shown on the plans. The remaining trench area above the select backfill is backfilled by regular backfill and compacted as shown on the plans.
- B. The backfilling of pipeline trenches shall be started immediately after the pipe work has been examined and accepted by the Engineer. The initial backfill material placed on top of pipe bedding shall be the same as pipe bedding material as shown on plans. The initial backfill shall be carefully placed and compacted to 90 percent standard Proctor density. The remainder of the backfill shall consist of loose earth, free of clods, stones, vegetable matter, debris or other objectionable material. It shall be carefully placed and compacted.
- C. Backfilling around structures shall be done in the manner specified above for pipe trenches by power tamping for the full depth of cut from the bottom of the finished grade.
- D. All backfilling shall be done in such manner as will not disturb or injure the pipe or structure over or against which it is being placed. Any pipe or structure injured, damaged or moved from its proper line or grade during backfilling operations shall be opened up and repaired and then backfilled as herein specified.
- E. The Contractor shall replace all surface materials and shall restore paving, curbing, sidewalks, gutters shrubbery, fences, sod, and other surfaces disturbed to a condition equal to, or better than, that before the work began, furnishing all labor and materials incidental thereto as provided elsewhere in these specifications.

## **52. SODDING AND SPRIGGING**

Solid Slab Sodding, Row Sprigging, Broadcast Sprigging Method A, and Broadcast Sprigging Method B will be measured by the square yard of sodded area and installed per Section 840 of the City's *Standard Specifications for Construction of Public Improvements*. The measurement of sodded area shall be fifteen feet (15 ft) each side measured from the centerline of the sanitary sewer pipe placement for a total width of thirty feet (30 ft). Additional sodding beyond this limit shall be placed at the Contractor's expense.

## **53. TIME OF COMPLETION**

Contractor is advised that Contract Time shall commence counting on the date the Work

Order is issued regardless of the date Contractor elects to start Work on the Project.

#### 54. WASTE DISPOSAL

All solids and semi-solids resulting from operations with the sanitary sewer system must be removed from the site and disposed of at no additional cost to the City. The Contractor must use an approved landfill or disposal location in compliance with all local, state, and federal regulations. The cost of disposal is considered incidental to the work.

City, and any participating public trust, respectively, against property damage and damage claims which may arise from activities, omissions or operations by the Contractor or its subcontractors under the Contract and also against any of the special hazards which may be encountered by the Contractor or its subcontractors in the performance of the Contract. Neither the Contractor nor any of its subcontractors, employees, or agents shall commit any act, operation, or omission that would vitiate, invalidate, or impair the insurance coverage hereunder. The coverage must also include all stored materials, supplies and equipment when stored off site.

55. **Storm Water Construction Activities Permit.** In order for the City of Oklahoma City to remain in compliance with the Environmental Protection Agency (EPA), Oklahoma Department of Environmental Quality (ODEQ) regulations, and maintain its own NPDES permit, the City must ensure all construction activities within its corporate boundaries are in compliance under the following regulations.

Environmental Protection Agency  
Code of Federal Regulations (40 CFR, Part 122)  
Clean Water Act  
Oklahoma Department of Environmental Quality  
Oklahoma Pollutant Discharge Elimination System Act (OPDES) 27A O.S. 2-6-201  
ODEQ General Permit OKR10  
City of Oklahoma City  
Oklahoma City Municipal Code

A copy of the **City's Best Management Practices Manual** can be download at <http://www.okc.gov/pw/storm.html> or a copy can be picked up at the City of Oklahoma City's City Clerk's Office, 200 N. Walker, 2<sup>nd</sup> Floor, Oklahoma City, Oklahoma 73102.

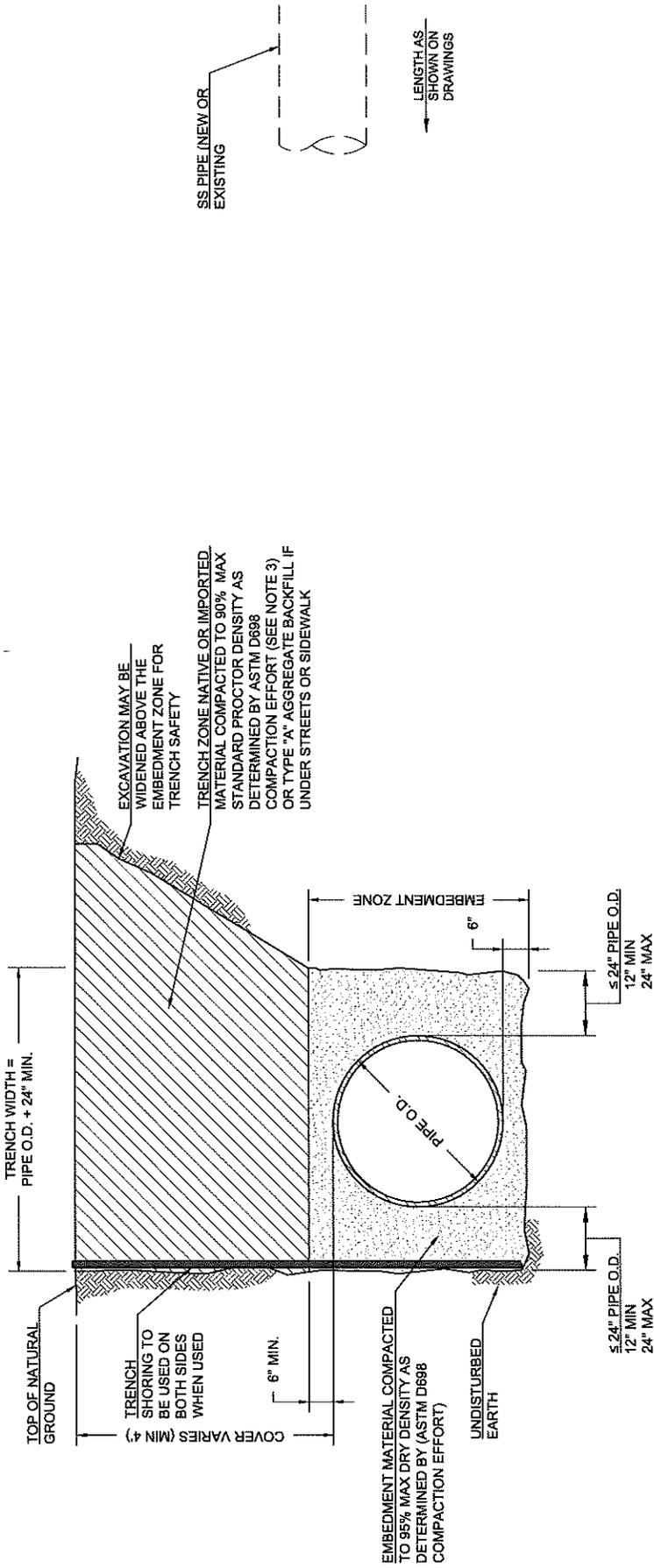
As a part of this project the contractor will be required to submit a completed Notice of Intent (NOI), a Storm Water Pollution Prevention Plan (SWPPP) and an Erosion Control Site Plan for permitting purposes. The Contractor shall be required to follow the plans as submitted and approved at all times during construction of the project. Along with the above stated items the Contractor shall also provide a check payable to the City of Oklahoma City in an amount required by this project. This permit must be issued before the Contractor will be allowed to obtain the building/construction permit. Permits issued may be renewed annually upon filing of a renewal application and payment of permit fee, provided that the applicant's activity and the location where it is carried on are the same as originally permitted. In addition, the application for renewal shall be subject to all the requirements pertaining to original permit. (Oklahoma City Municipal Code 48-33)

The following note shall be on every plan submitted to the City of Oklahoma City:

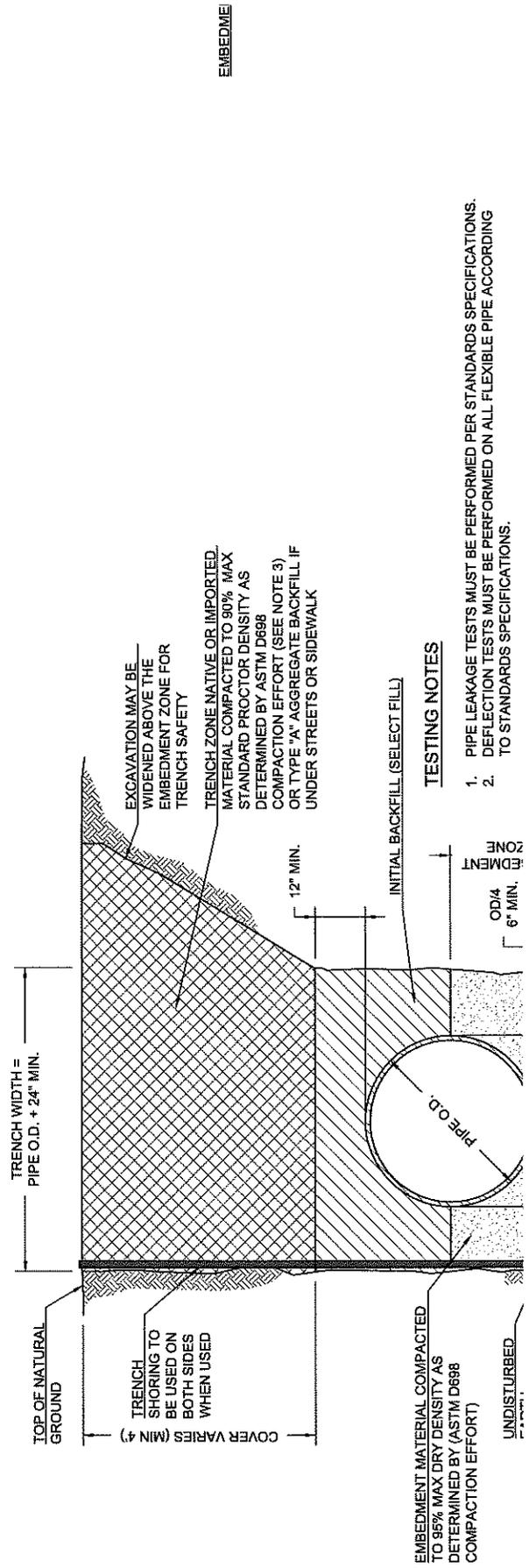
Construction activities that result in land disturbance of equal to or greater than one (1) acre, or less than one (1) acre if they are part of a larger common plan of development or sale that totals at least one (1) acre must also obtain a permit from ODEQ (form 605-0021) for Storm Water Discharge from Construction Activities. This means that land disturbing of one (1) acre or more must permit with ODEQ and the City of Oklahoma City, Storm Water Quality.

**END OF SECTION**

DRAWING NUMBER	DETAIL DESCRIPTION	SHEET NUMBER	ISSUED DATE
600	SANITARY SEWER STANDARD DETAIL INDEX	600	8/10/2023
601	SANITARY SEWER LINE INSTALLATION	601	8/10/2023
601.01	PIPE INSTALLATION DETAIL		
602	SEWER SERVICE CONNECTION	602	8/10/2023
602.01	SERVICE CONNECTION INSTALLATION		
604	ABANDONING SEWER	601	8/10/2023
604.01	ABANDONING SEWER		
616	SANITARY SEWER MANHOLE	616.A	8/10/2023
616.01	REINFORCED CONC. PRECAST MANHOLE TRANSITION SECTION	616.A	8/10/2023
616.02	REINFORCED CONC. PRECAST MANHOLE BASE SECTION	616.A	8/10/2023
616.03	REINFORCED CONC. PRECAST MANHOLE CONE SECTION	616.A	8/10/2023
616.04	REINFORCED CONC. PRECAST MANHOLE WALL DETAIL	616.B	8/10/2023
616.05	REINFORCED CONC. PRECAST MANHOLE SLAB MANHOLE TOP	616.B	8/10/2023
616.06	CAST IN PLACE CONCRETE MANHOLE BASE SECTION	616.B	8/10/2023
616.07	MANHOLE PIPE CONNECTION FOR CAST IN PLACE	616.C	8/10/2023
616.08	DROP MANHOLE - PLAN VIEW & SECTION A-A VIEW	616.C	8/10/2023
616.09	PIPE PENETRATION DETAIL	616.C	8/10/2023
616.10	STRAP DETAIL	616.C	8/10/2023
616.11	REVERSIBLE MANHOLE RING (PAVED SECTION)	616.D	8/10/2023
616.12	REVERSIBLE MANHOLE RING (NON-PAVED SECTION)	616.D	8/10/2023
616.13	VENTED MANHOLE COVER	616.D	8/10/2023
616.14	NON-VENTED MANHOLE COVER	616.E	8/10/2023
616.15	HINGED MANHOLE COVER (TOP FLANGE)	616.E	8/10/2023
616.16	HINGED MANHOLE COVER (BOTTOM FLANGE)	616.E	8/10/2023
618	MANHOLE REHABILITATION	618	8/10/2023
618.01	REBUILDING MANHOLES DETAIL		
629	ABANDONING/ REMOVING MANHOLE	618	8/10/2023
629.01	ABANDONING MANHOLES DETAIL		
635	STEEL CASING PIPE	635	8/10/2023
635.01	BORE AND ENCASEMENT DETAIL		
640	PIPE ENCASEMENT AND COLLAR	640	8/10/2023
640.01	CONCRETE COLLAR WITH SPREAD FOOTING		
641	AERIAL CROSSING	641	8/10/2023
641.01	STEEL CARRIER SIZES AND SPAN	641	8/10/2023
641.02	PIER TYPE 1	641	8/10/2023
641.03	PIER TYPE 2	641	8/10/2023



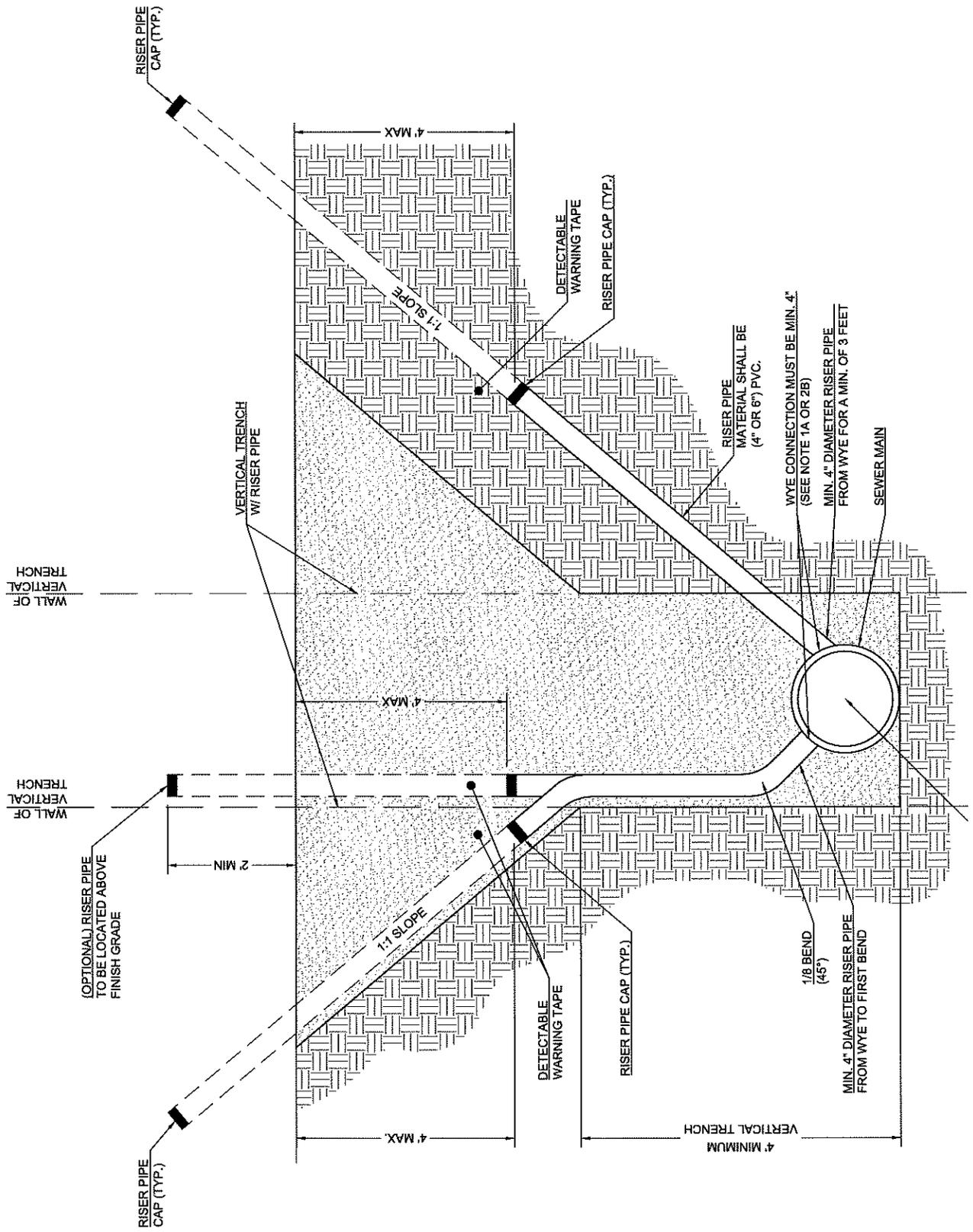
FLEXIBLE PIPE INSTALLATION DETAIL  
(HDPE, PVC & RFP)

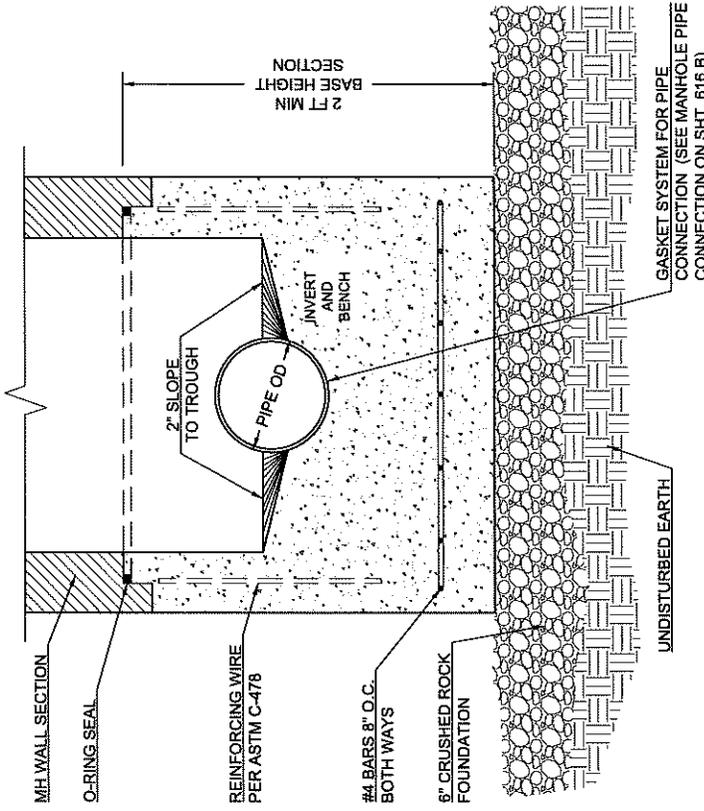


TESTING NOTES

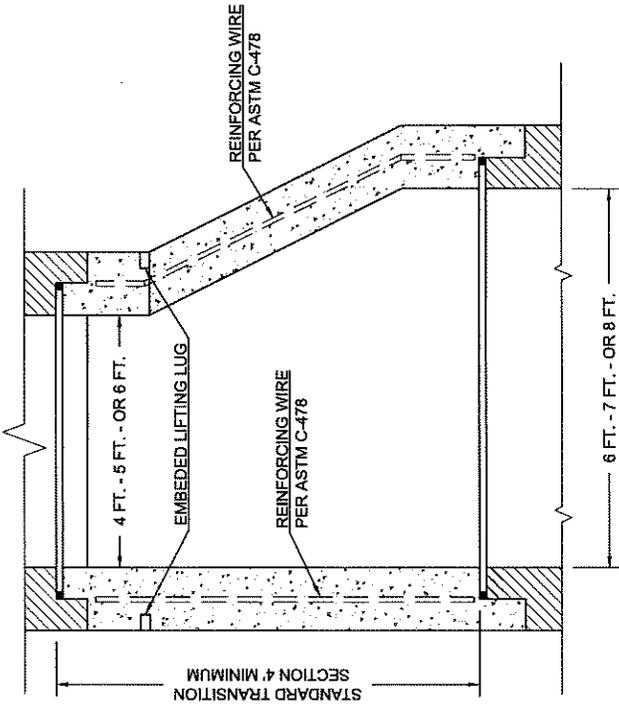
1. PIPE LEAKAGE TESTS MUST BE PERFORMED PER STANDARDS SPECIFICATIONS.
2. DEFLECTION TESTS MUST BE PERFORMED ON ALL FLEXIBLE PIPE ACCORDING TO STANDARDS SPECIFICATIONS.

EMBEDMENT

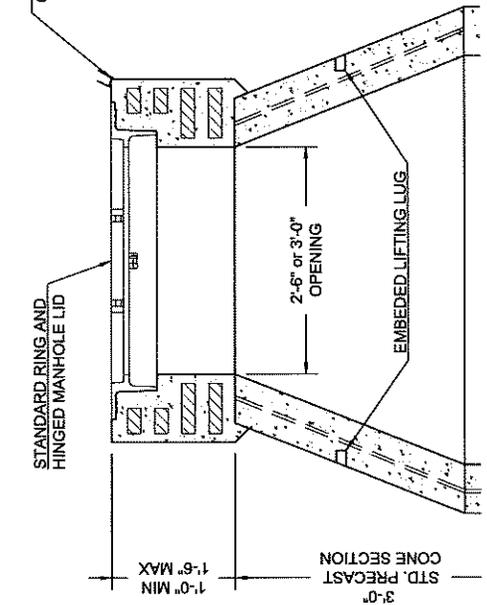
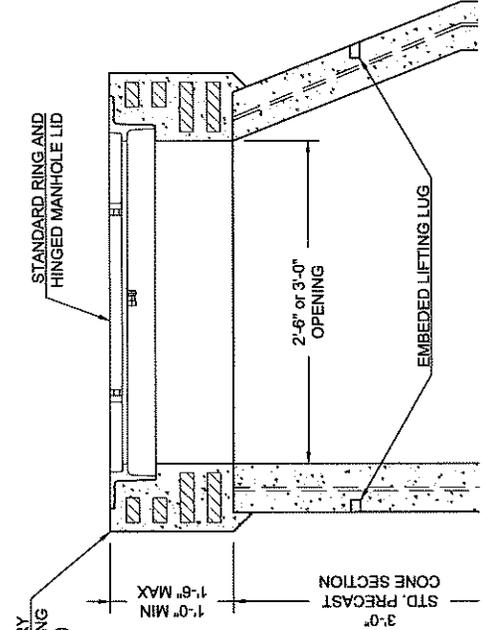
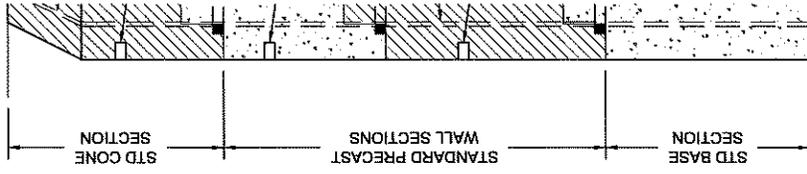




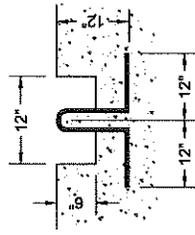
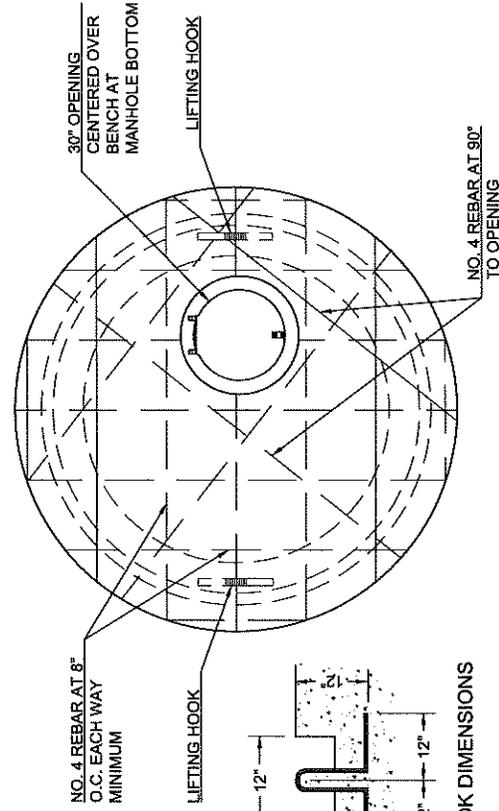
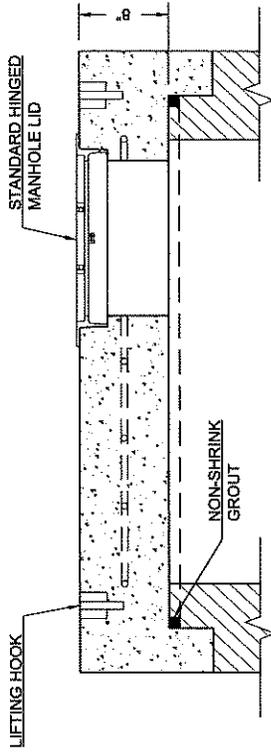
**02**  
616  
**REINFORCED CONCRETE PRECAST MANHOLE**  
BASE SECTION  
Scale: N.T.S.



**01**  
616  
**REINFORCED CONCRETE PRECAST MANHOLE**  
TRANSITION SECTION  
Scale: N.T.S.



R  
04  
616  
V



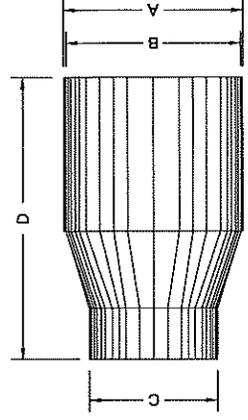
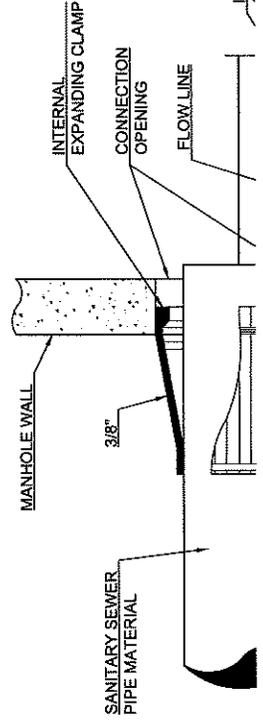
NO. 4 REBAR AT 8"  
O.C. EACH WAY  
MINIMUM

SCHEDULE OF THICKNESS	
PIPE DIAMETER	"B"
8"	1' - 8"
10"	1' - 10"
12"	2' - 1"
15"	2' - 4"
18"	2' - 8"
21"	3' - 0"
24"	3' - 3"

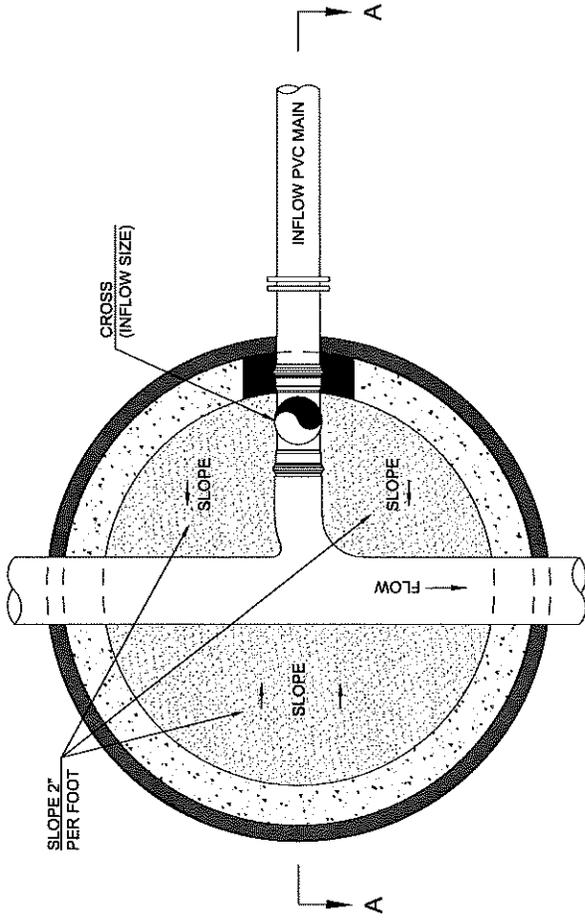


**05** REINFORCED CONCRETE PRECAST SLAB MANHOLE TOP  
Scale: N.T.S.

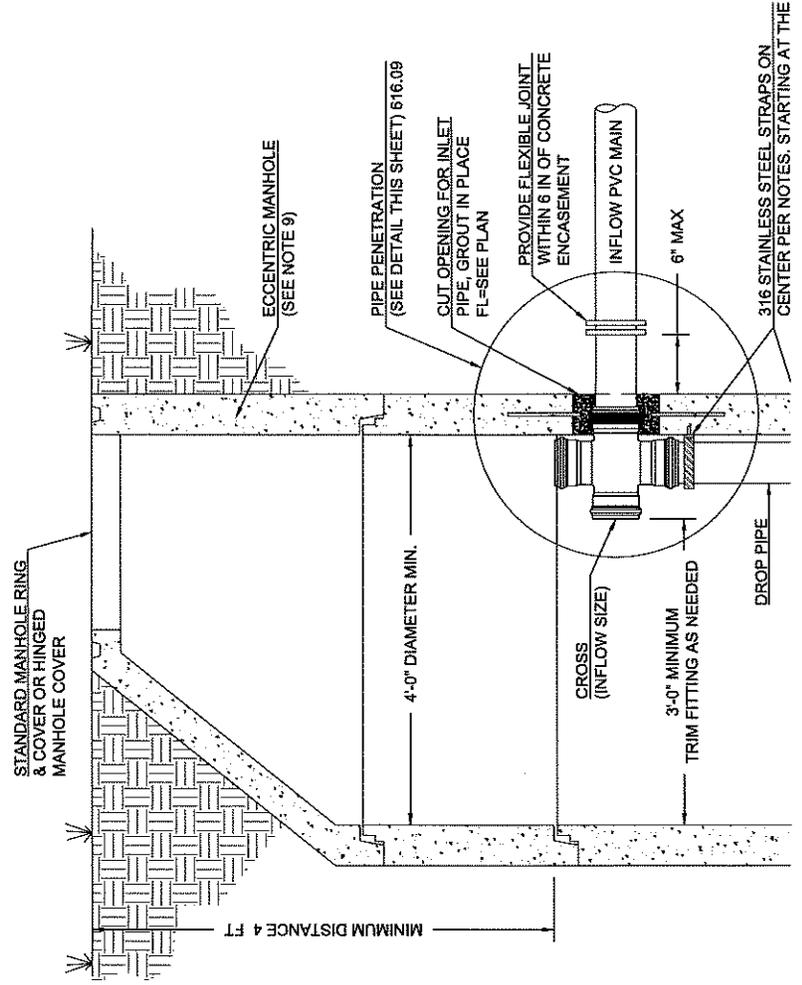
**06** CAST IN PL  
616

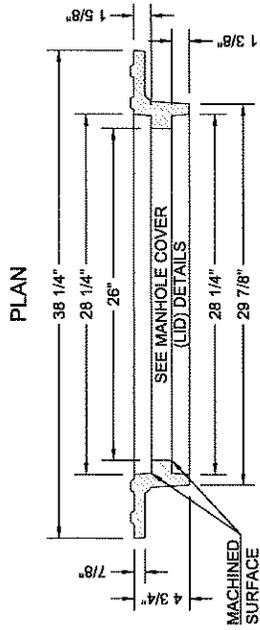
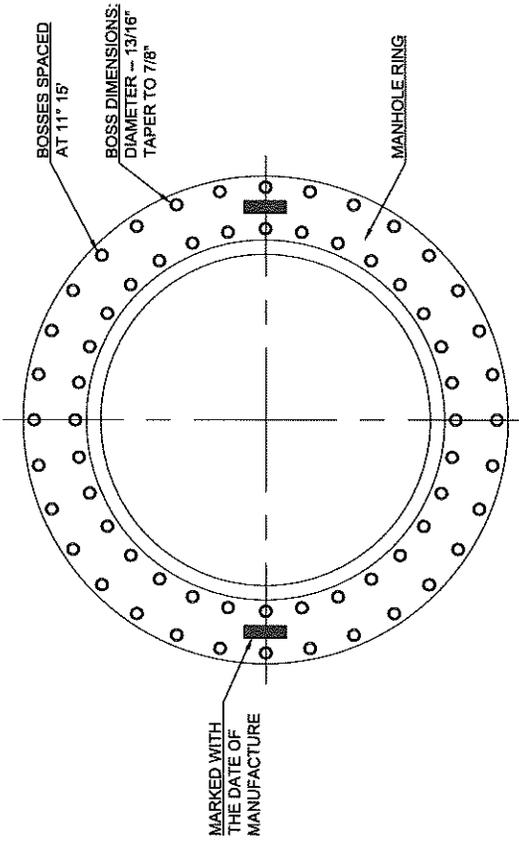


- NOTES:
1. ALL PIPE CLAMPS MUST BE STAINLESS STEEL.
  2. NEOPRENE EPDM BLENDED COMPOUND BOOT MUST MEET ASTM C-923.



PLAN VIEW



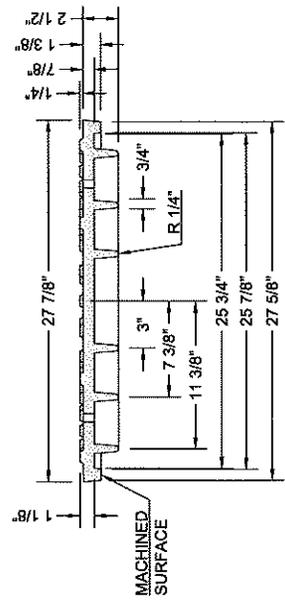
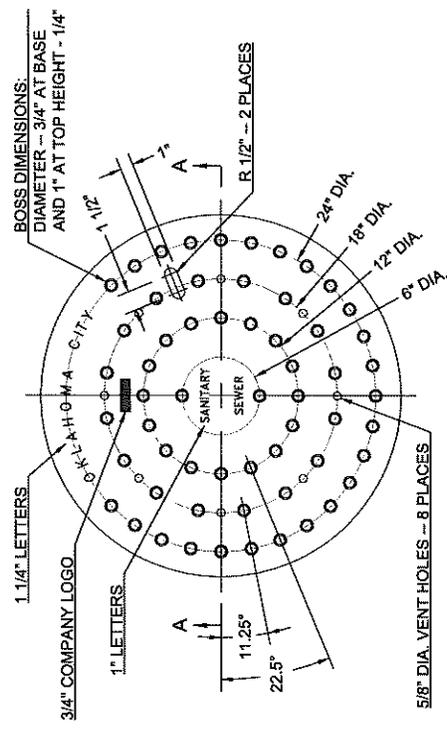
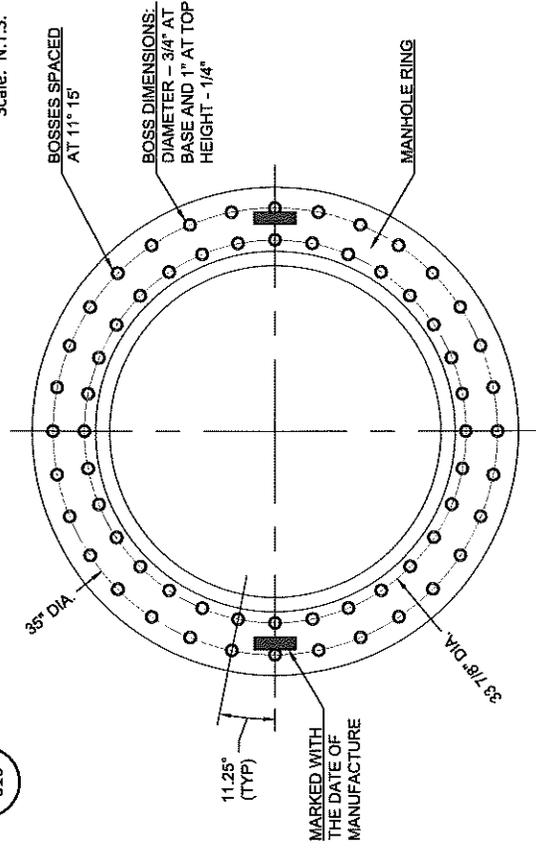


NOTES:  
1. FURNISHED WITH MACHINED HORIZONTAL BEARING SURFACE.  
2. MANHOLE RING IS REVERSIBLE.

**REVERSIBLE MANHOLE RING (PAVED SURFACE)**

Scale: N.T.S.

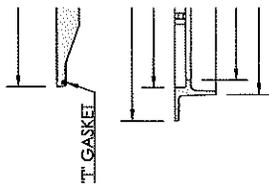
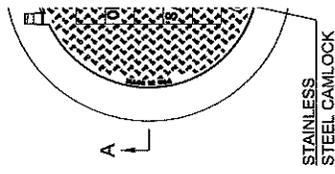
11  
616



SECTION A-A

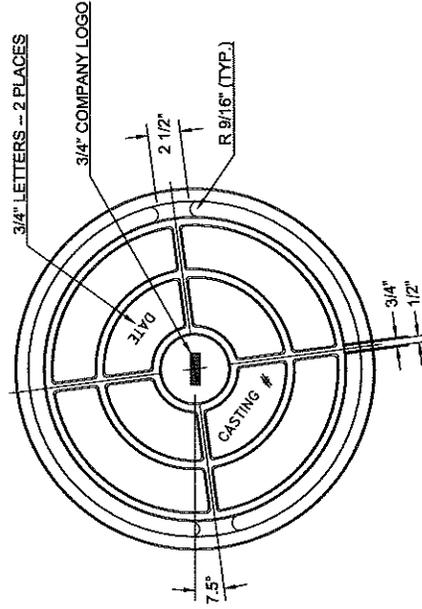
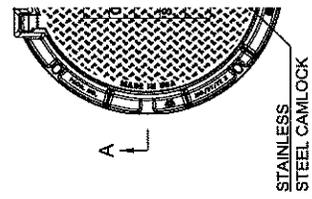
13  
616

**VENTED MAN**

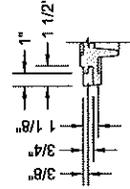


SEC

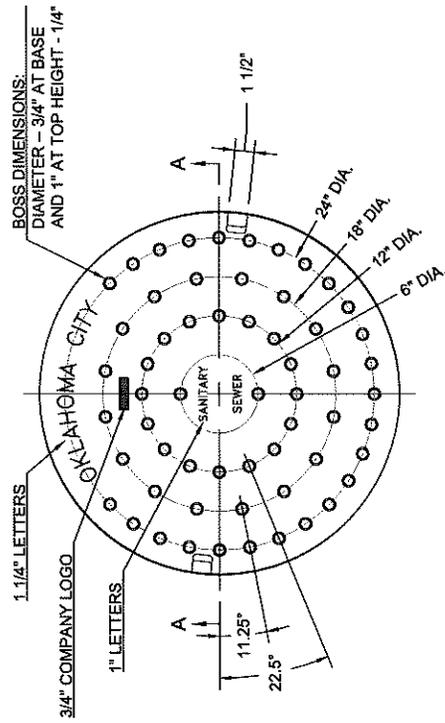
15  
H  
616



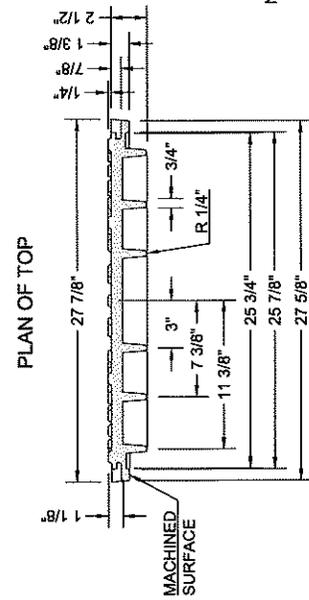
PLAN OF UNDERSIDE



SECTION THRU  
PICK SLOT



BOSS DIMENSIONS:  
DIAMETER - 3/4" AT BASE  
AND 1" AT TOP HEIGHT - 1/4"



PLAN OF TOP

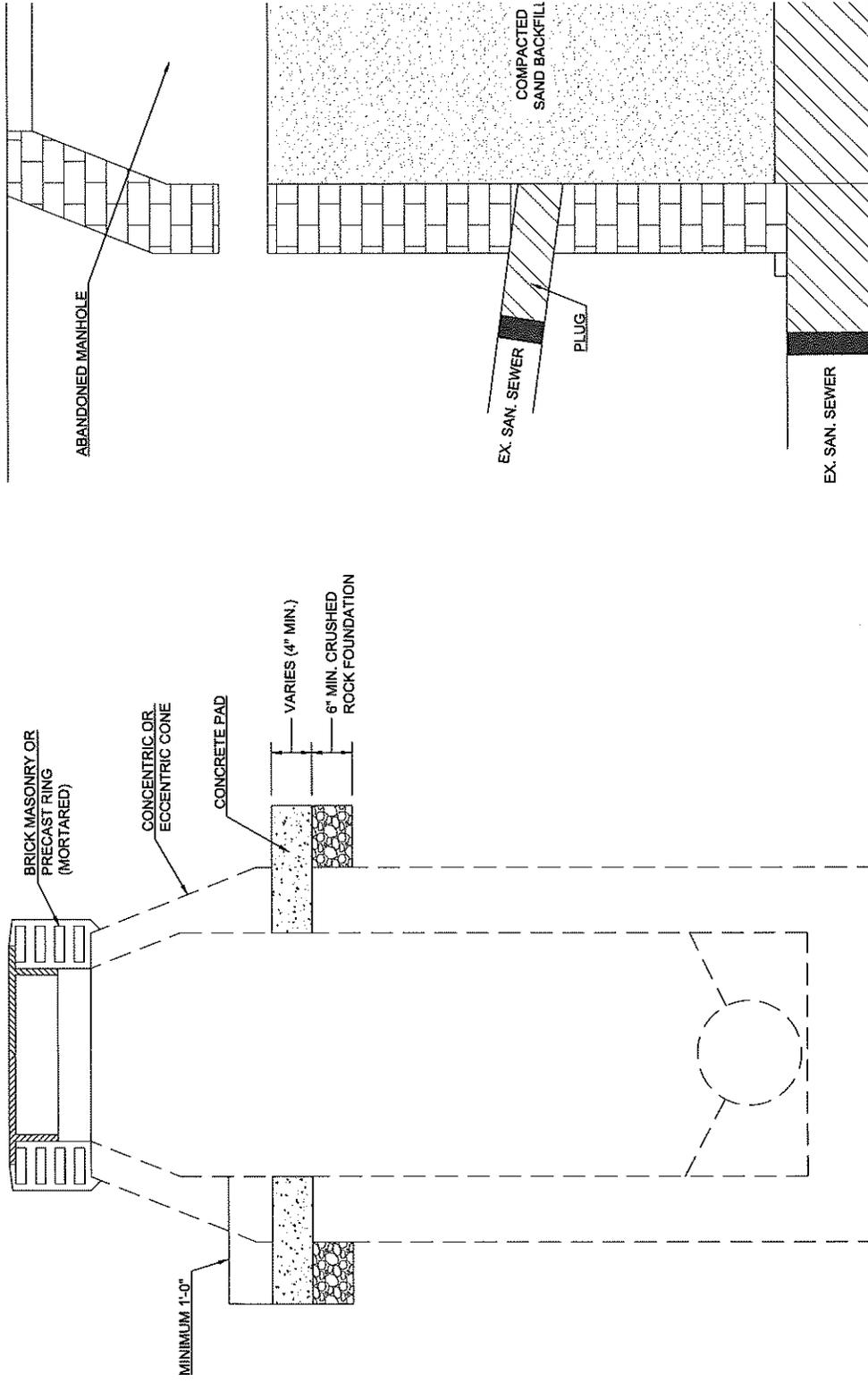
SECTION A-A

- NOTES:
1. FINISH EXCESS IRON AND FINIS; MACHINE SEATING SURFACES FLAT TO NOTE DIMENSIONS.
  2. FILLETS MUST BE 1/4" UNLESS OTHERWISE SPECIFIED.
  3. UNLESS OTHERWISE SHOWN, ALL DIMENSIONS ARE IN INCHES.

14 NON-VENTED MANHOLE COVER

Scale: N.T.S.

14  
616



NOTE:  
RINGS AND COVER OF ABANDONED MANHOLE ML  
THE LINE MAINTENANCE DIVISION OF THE WATE  
DEPARTMENT.

- NOTES:
1. CAST-IN-PLACE NON-REINFORCED CONCRETE AND BRICK MANHOLES:  
THE EXISTING CONE AND WALL, IF NECESSARY, MUST BE REMOVED TO A LEVEL WHICH WILL  
ALLOW INSTALLATION OF NEW CONE TO THE PROPER GRADE. THE EXPOSED CUT-OFF  
SURFACES OF THE EXISTING MANHOLE WALL MUST BE CLEANED BY REMOVING LOOSE  
MATERIAL AND WETTED, PRIOR TO CONSTRUCTION OF CONCRETE PAD. ALL LOOSE BACKFILL  
AROUND THE MANHOLE WALL MUST BE REMOVED AND REPLACED WITH COMPACTED ASTM  
C-33 NO. 67. THE NEW CONCRETE PAD MUST BE CONSTRUCTED, AND A NEW CONE MUST BE  
FORMED OR PLACED TO THE PROPER GRADE USING FIFTEEN THOUSAND (15000 PSI) POUNDS  
PER SQUARE INCH MORTAR.
  2. PRECAST REINFORCED CONCRETE MANHOLES:

NOTES:

1. PLUGGED PIPE ENDS  
 OPTION A - GROUT -- BOT  
 MINIMUM COMPRESSIVE  
 MASONRY. EACH PLUG S  
 IN ACCORDANCE WITH T

OPTION B - SEALS -- BOT

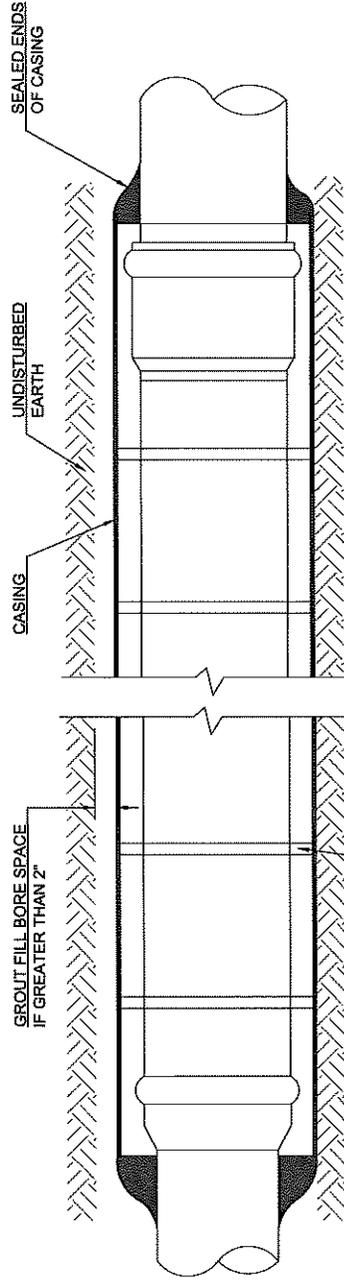
2. CASING PIPE SIZE -- STEEL C

PIPE NOMINAL SIZE (inches)
4
6
8
10
12
15
18
24
27
30
36
42
48

3. CASING PIPE THICKNESS -- §  
 INDICATED MAXIMUM DEPTH

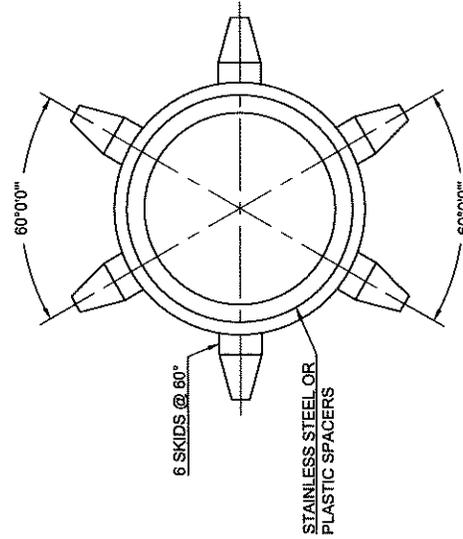
OUTSIDE DIAMETER (INCHES)	WALL THICKNESS (INCHES)
≤ 12	0.1880
16	0.2500
18	0.2500
20	0.2500
24	0.2500
30	0.3220
36	0.3750
42	0.3750
48	0.4380
54	0.4380
60	0.4380
66	0.4380

4. CASING MATERIAL -- STEEL  
 ELECTRIC-FUSION (ARC)-WE  
 CARBON STEEL, GRADE B, V  
 POUNDS PER SQUARE INCH

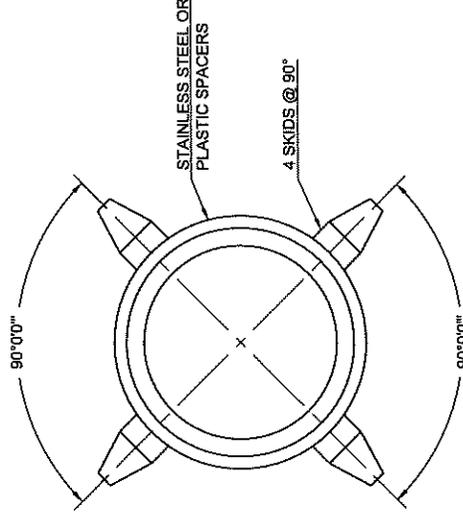


STAINLESS STEEL CASING  
 SPACERS AS REQUIRED  
 EQUALLY SPACED

PROFILE VIEW

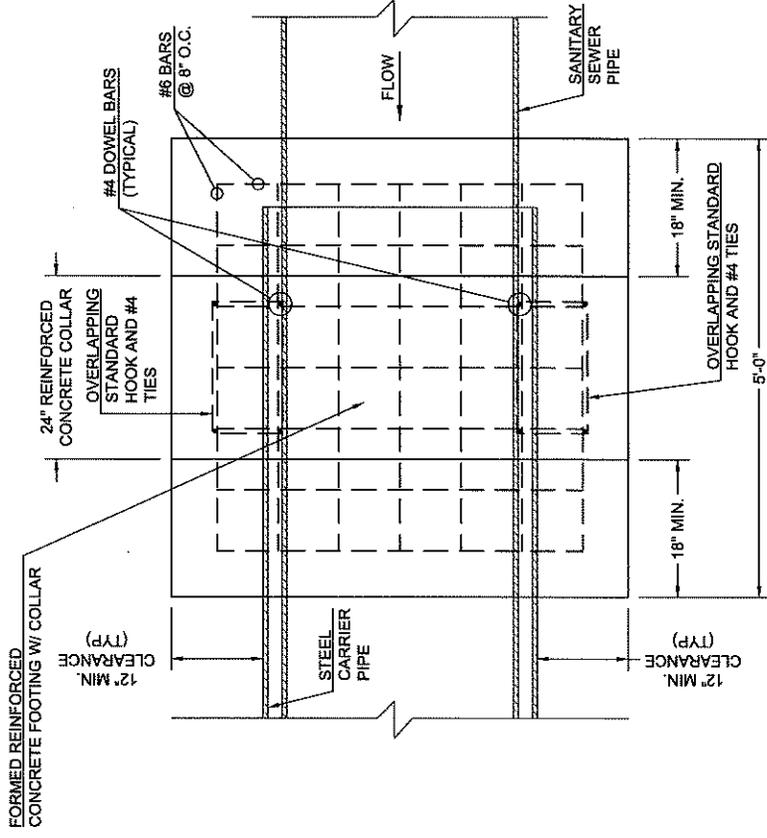


SKID POSITION FOR PIPES > 12"



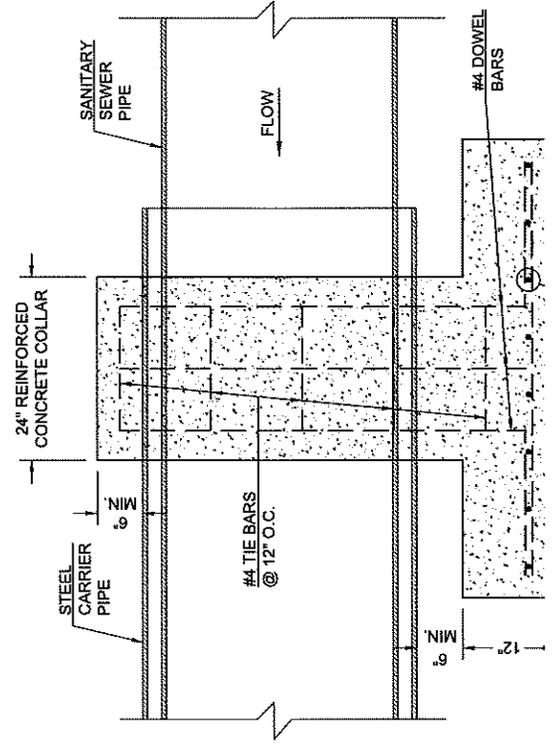
SKID POSITION FOR PIPES ≤ 12"

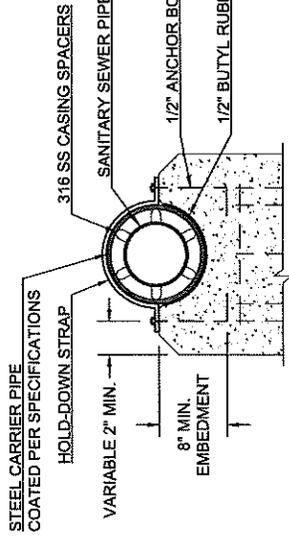
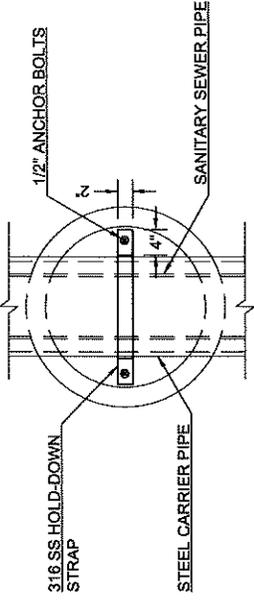
SECTION VIEW



PLAN VIEW

NOTE:  
THE FOLLOWING DETAIL IS TO BE USED ONLY FOR STEEL  
CARRIER PIPE NOT GREATER THAN 42" IN DIAMETER.

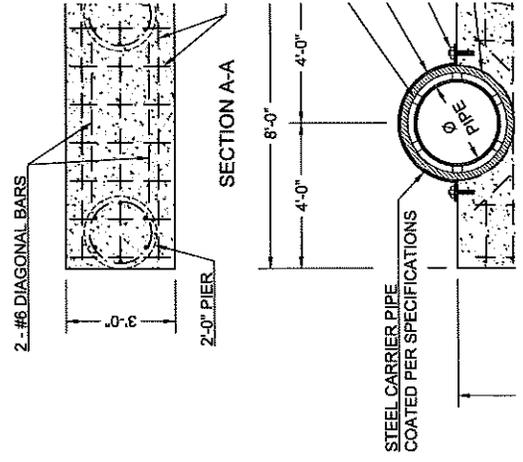




PIPE SADDLE &  
HOLD-DOWN STRAP

NOTE:  
FOR SANITARY SEWER PIPE LESS THAN OR EQUAL TO 15-IN

02  
641  
PIER TYPE 1  
Scale: N.T.S.



STEEL CARRIER PIPE  
COATED PER SPECIFICATIONS

**TABLE OF STEEL CARRIER PIPE SIZES**

Nominal Size [in]	Wall Thickness [in]												
	Span Length - [ft]												
	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	7/8	1			
6	36	40	44										
8	38	42	45										
10	39	43	46										
12	40	44	47										
14	40	44	47										
16	41	45	48										
18	41	46	49	52									
20	42	46	50	53									
22	42	46	51	54									
24	42	48	52	55	58	60							
26	43	48	52	56	59	61							
28	43	48	53	56	59	62							
30	43	49	53	57	60	63							
32	44	49	54	57	61	64							
34	44	49	54	58	61	64							
36	44	50	54	58	62	65	70						
38	44	50	55	59	62	65	70						
40	44	50	55	59	63	66	71						
42	44	50	55	59	63	66	72						
45	51	55	60	63	67	72							
48	51	56	60	64	67	73	78						
51	51	56	60	64	68	74	79						
54	51	56	61	65	68	74	79						
57	51	57	61	65	69	75	80						
60	51	57	61	65	69	75	80						
63	52	57	62	66	69	76	81						
66	52	57	62	66	70	76	81	86	90				
72	52	58	62	66	70	77	82	87	92				

01  
641  
STEEL CARRIER SIZES AND SPAN  
Scale: N.T.S.

# OKLAHOMA CITY WATER UTILITIES TRUST

## APPROVAL SHEET

**Project No. SE-0059**  
**Emergency Sanitary Sewer Aerial Creek Crossing Replacement**  
**Windover Dr and Coachlight Dr (Edmond)**

### ADDENDUM NO. 1

Prepared by  
Utilities Engineering



\_\_\_\_\_  
Duke Newin, P.E., Project Engineer



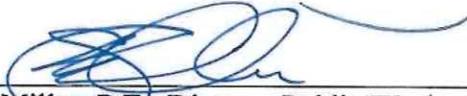
### Recommended for Approval



\_\_\_\_\_  
Will Huggins, Deputy Director, Utilities Engineering



\_\_\_\_\_  
Chris Browning, General Manager



*for* \_\_\_\_\_  
Debbie Miller, P.E., Director Public Works / City Engineer

**APPROVED** by the Trustees and signed by the Chairman of the Oklahoma City Water Utilities Trust this \_\_\_\_ day of \_\_\_\_\_, 2024.

### ATTEST:

\_\_\_\_\_  
Secretary

\_\_\_\_\_  
Chairman

**CONCURRED** by the Council and signed by the Mayor of the City of Oklahoma City this \_\_\_\_ day of \_\_\_\_\_, 2024.

### ATTEST:

\_\_\_\_\_  
City Clerk

\_\_\_\_\_  
Mayor

**Addendum #1**  
**Project No. SE-0059**  
**Emergency Sanitary Sewer Aerial Creek Crossing Replacement**  
**Windover Dr and Coachlight Dr (Edmond)**

This Addendum forms a part of the Contract Documents and modifies the original bid documents and modifies the original bid documents. Items in this Addendum take precedence over the original bidding documents and previously issued addenda, if any.

**Answers to questions asked via [www.bidsync.com](http://www.bidsync.com) and/or in the pre-bid meeting:**

**Question 1 (bidsync):** Submitted: Jul 24, 2024, 8:16:18 AM CDT.

What size rip rap is requested for Bid Items 8 & 9?

**Answer:** Bid Item 8: 6-inch rip rap and Bid Item 9: 12-inch rip rap

**Question 2 (bidsync):** Submitted: Jul 24, 2024, 1:05:20 PM CDT.

Regarding Bid Item 4 – Trench Excavation and Backfill (0-15’), It appears that the excavation will primarily be for installation of the concrete anchor blocks and no trenching is required for the aerial portion of the crossing. Will payment for Bid Item 4 be measured or will the contractor be paid the total amount of the bid item regardless of the footage trenched?

**Answer:** Bid Item 4 – Trench Excavation and Backfill (0-15’) is for the construction of the 8-inch PVC sewer pipe connecting to the existing sewer main on the south side of the creek outside of the encasement.

**Question 3 (bidsync):** Submitted: Jul 24, 2024, 1:05:39 PM CDT.

On Bid Item 8 – Grouted Rip Rap with Wire Mesh, typically on grouted riprap the stones are exposed, so where does the wire mesh go (below the rip rap)? What size wire mesh?

**Answer:** The wire mesh will be placed on top of the rip rap. The size is 1” hexagon opening.

**Question 4 (bidsync):** Submitted: Jul 24, 2024, 2:29:28 PM CDT.

Is a bid bond required?

**Answer:** No.

**Items for clarifications:**

1. The rebars for the concrete blocks shall be non-coated.
2. Concrete for the concrete blocks shall be 4000 psi as specified in Item 42 Paving Cut and Permanent Repair, Special Provisions – Sanitary Sewer.
3. Wastewater Pipeline contractor “C” (2023) in Item 4 Bidders Pre-Qualification, Special Provisions – Sanitary Sewer.

## Question and Answers for Bid #OCWUT SE-0059 - Emergency Sanitary Sewer Aerial Creek Crossing Replacement

### Overall Bid Questions

#### Question 1

What size rip rap is requested for Bid Items 8 & 9? (Submitted: Jul 24, 2024 8:16:18 AM CDT)

#### Answer

- See addendum #1 (Answered: Jul 25, 2024 1:53:45 PM CDT)

#### Question 2

Regarding Bid Item 4 – Trench Excavation and Backfill (0-15'), It appears that the excavation will primarily be for installation of the concrete anchor blocks and no trenching is required for the aerial portion of the crossing. Will payment for Bid Item 4 be measured or will the contractor be paid the total amount of the bid item regardless of the footage trenched? (Submitted: Jul 24, 2024 1:05:20 PM CDT)

#### Answer

- See addendum #1 (Answered: Jul 25, 2024 1:53:45 PM CDT)

#### Question 3

On Bid Item 8 – Grouted Rip Rap with Wire Mesh, typically on grouted riprap the stones are exposed, so where does the wire mesh go (below the rip rap)? What size wire mesh? (Submitted: Jul 24, 2024 1:05:39 PM CDT)

#### Answer

- See addendum #1 (Answered: Jul 25, 2024 1:53:45 PM CDT)

#### Question 4

Is a bid bond required? (Submitted: Jul 24, 2024 2:29:28 PM CDT)

#### Answer

- See addendum #1 (Answered: Jul 25, 2024 1:53:45 PM CDT)