Memorandum

Date: August 16, 2019

To: Plan Holders of Record – Filmore Bridge Parallel Force Main

From: Bill M. Nash, P.E.

Re: Addendum No. 001
City of Joplin, Missouri
Burns & McDonnell Project No. 105643

Attached to this memorandum is Addendum No. 001 for the above referenced project, a listing of bidder's questions with the respective answers, and a copy of the agenda and sign-in sheet from the August 13th, 2019 mandatory Pre-Bid meeting. The Bidder Questions Listing No. 001 does not form a part of the Contract Documents and will be without legal effect. The intent of the Bidder Questions Listing is to direct the Bidder's to sections of the Contract Documents which provide more detailed information regarding the questions for the project or to the respective Addendum Items.

Per the Instructions to Bidders any questions regarding the project shall be submitted to the Engineer no later than 7 days prior to bid opening. Any questions or clarification request submitted after that time may not be answered. Bids are due by 10:00 AM, local time, August 27th, 2019.

Attachments:

- The agenda and sign-in sheet of the mandatory Pre-Bid meeting held on August 13th, 2019.
- Bidder Questions Listing No. 001.
- Addendum No. 001 with the following associated attachments:
    - Specification section 00 40 00 – BID FORM.
    - Agreement with the City of Joplin – Rev 1-1-19
    - Specification section 01 27 00 – MEASUREMENT AND PAYMENT
    - Specification section 33 31 50 – UTILITY CASING
    - Contract Drawing Cover Sheet Rev 1
    - Contract Drawing C002 Rev 1
    - Contract Drawing C005 Rev 1
    - Contract Drawing C006 Rev 1
    - Contract Drawing C007 Rev 1
    - Contract Drawing C008 Rev 1
    - Contract Drawing C011 Rev 1
    - Contract Drawing C013 Rev 1
    - Contract Drawing C014 Rev 1
    - Contract Drawing C015 Rev 0

Pre-Bid Agenda
Filmore Bridge Parallel Force Main
August 13, 2019
10:00 AM, Joplin Public Works Department
4th Floor Conference Room
602 S. Main Street

1. Introduction:

A. Introductions.

B. Request that everyone sign the sign-in sheet. Meeting is mandatory for all general contractors.

C. Project Name: **Filmore Bridge Parallel Force Main**

D. General Description of the Project: The project will generally consist of installation of approximately 4,000 linear feet of 24-inch diameter PVC force main with tracer wire, two cast-in-place valve vaults, sanitary sewer manholes, casing pipe, air release valves, and all associated appenditures.

2. Bidding Documents:

A. Bid documents including drawings and specifications may be obtained for bidding purposes from the City of Joplin, Missouri, Public Works Department, 602 S. Main Street, 4th Floor.

B. The City does not assume any responsibility for errors or misrepresentations resulting from the use of incomplete sets of Bidding Documents.

3. Bid Opening:

A. Date: August 27th, 2019

B. Time: 10:00 AM local time

C. At said time and place, and promptly thereafter, all bids that have been duly received will be publicly opened and read aloud.

4. **Instructions to Bidders**:

A. The pre bid meeting is mandatory for all general contractors. Please sign in.

B. Bids will be received on a unit price basis.

C. Bids received from Bidders who are not recorded by the City of Joplin, Missouri as having received the Bid Documents will not be opened.

D. Each bid must be accompanied by a bid security made payable to the City in an amount of 5% of the bidder's maximum bid price. A copy of the bid bond must be included with the bid.

E. Bidders will be required to comply with the City of Joplin's Affirmative Action Program set forth in City Council Resolution No. 81-57, Sections VI and VII.

F. All questions about the meaning or intent of the Contract Documents may be directed to Bill Nash, P.E. at 816-822-3858 or bmnash@burnsmcd.com. Necessary replies will be issued by addenda and delivered to all parties recorded by the City as having received the Bid Documents.

G. Questions received less than 7 days prior to the date for opening bids will not be answered.

H. The Bidder must be qualified by experience, adequate financing, and equipment to do the Work required by the Contract Documents.
I. Read Instructions to Bidders and pay special attention to the sections regarding submission of bids.
J. It is the responsibility of each Bidder, before submitting a Bid, to (a) thoroughly examine the Contract Documents; (b) visit the site to become familiar with local conditions that may affect cost, progress, performance, or furnishing of the Work; (c) consider federal, state, and local Laws and Regulations that may affect cost, progress, performance, or furnishing of the Work; (d) study and carefully correlate the Bidder's observations with the Contract Documents; and (e) notify the City of all conflicts, errors, or discrepancies discovered by the Bidder in the Contract Documents.
K. Contract times: Substantial completion is 240 days. Final completion is 270 days.
L. Liquidated damages are $1,000/day for both substantial and final completion.
M. Substitute material and equipment will only be considered after the effective date of the agreement.
N. Bids shall remain open for 60 days after the date of bid opening.
O. Successful bid will be based on the lowest, responsive, responsible Bidder whose evaluation by City indicates to the City that the award will be in the best interest of the Project and City.
P. Note the Local Preference Policy as outlined in the Instruction to Bidders.

5. Contract Requirements:

A. Agreement Between Owner and Contractor for Construction Contract (Stipulated Price)
B. Performance, Labor, and Materials Payment Bond.
C. Prevailing Wages.
D. Non-Collusive Affidavit of Prime Bidder
E. Certificate of Insurance
F. Project materials are Tax Exempt
G. Submit list of potential Sub-Contractors to be used on this project. The Contractor shall not award subcontracts which total more than 50% of the total Contract Price.

6. Project Work Requirements:

A. This is a Calendar day contract. Substantial Completion is 240 calendar days from the date of the notice to proceed. Final completion is 270 calendar days from the date of the notice to proceed.
B. Working Hours.
    1. All work at the project site shall be performed during regular working hours. The Contractor shall not permit overtime work or the performance of Work on Saturday, Sunday or any legal holiday without the City's prior written consent given after prior written notice to the City. Construction will be limited to between the hours of 8:00 a.m. and 6:00 p.m.
C. The Notice to Proceed is anticipated to be in or around October of 2019.
D. Payment requests may be submitted to the City once every 30 days. All quantities must be pre-approved by the on-site inspector(s) prior to submittal/payment.

7 Construction

A. Up to 3 sets of plans will be provided to the successful bidder.
B. Facility must remain in operation during construction.
C. Contractor shall submit a plan for continuous operation of facilities to the City and Engineer approval.

8. Special Conditions

A. Contractor is responsible for all staking.
B. Contractor shall be responsible for the Stormwater Pollution Prevention Plan.

9. Site Work/Utilities Discussion

A. Site Visit after pre-bid conference.

10. Addendum item:

A. Pending: Addition of an entrance drive to the Zan's campground along Coyote Drive.

11. General Project Summary – Burns & McDonnell

PRE-BID SIGN IN SHEET
FILMORE BRIDGE PARALLEL FORCE MAIN
CITY OF JOPLIN, MISSOURI
AUGUST 13, 2019

NAME	COMPANY	TELEPHONE AND EMAIL
Bill Nash	BMCD	TEL: 816-822-3858 EMAIL: bmnash@barnsmcd.com
Ray Greek	Ace Pipe	TEL: 417 483-6531 EMAIL: rgreek@acepipe.com
Jim Thomason	Goins Ent	TEL: 417 659 6082 EMAIL: contact@goinsent.com
Brian Gregg	Sapulpa Digging	TEL: 918-671-5170 EMAIL: les@sapulpadigging.com
Sheri McWilliams	Bennett, Inc	TEL: 417-682-6826 EMAIL: bandkexcavation@sbcglobal.net
Jerry Goins	Goins Ent	TEL: 417 659 6082 EMAIL: contact@goinsent.com
Kelly Hartin	Joplin Supply Co.	TEL: 417 438-1099 EMAIL: Kelly.hartin@joplinsupply.com
Greg Hackman	Hamiltonanddadinc	TEL: 417-425-5312 EMAIL: Greg@Hamiltonanddad.com
Lynden Lawson	City of Joplin	TEL: 417 624-0820 x 560 EMAIL: LLawson@joplinmo.org
Joey Burton	City of Joplin	TEL: EMAIL: Jburto@joplinmo.org

NAME	COMPANY	TELEPHONE AND EMAIL
Joe Eschbacher	CHC	TEL: 417-680-8480 EMAIL: jeschbacher@crossland.com
Victoria Roberts	Roberts Const.	TEL: 417-886-2074 EMAIL: victoria[illegible].com
STETSON BECK	CHC	TEL: 417.825.3159 EMAIL: SBECK@CROSSLAND.COM
Tim Virgin	Dalton-Killinger	TEL: 417-624-0651 EMAIL: bidfile@daltonKillinger.com
Jeremy Pant	Asbell Companies	TEL: 417-649-1269 EMAIL: jpant@jeffasbell.com
Bob Persons	Persons & Seal	TEL: 573-429-3157 EMAIL: LYNNsons@boycomwireline.com
Randy Persons	R.L. Persons Inc.	TEL: 573-686-1323 EMAIL:
Chris Parker	City	TEL: 417.624-0820, ext. 584 EMAIL: cparker@joplinmo.org
Joey Burton	city	TEL: EMAIL: JburTon@Joplinmo.org
Mike Ehrsam	Atnip	TEL: 417-434-3783 417-525-4280 EMAIL: mikeehrsam@yahoo.com
Dean Smith	City	TEL: EMAIL:

FILMORE BRIDGE PARALLEL FORCE MAIN
CITY OF JOPLIN, MISSOURI

Bidder Questions Listing No. 001
Provided August 16, 2019

1. Date Received: 8/13/2019 – Does the plan for continuous operation of existing facilities during construction need to be submitted with the bid?

   Answer: No, this plan is not required with the bid but will be required before construction begins. A price for this item must be included on the Bid Form; item 17.0.

2. Date Received: 8/13/2019 – What flowrates are generated by the two connected lift stations and are there any down times?

   Answer: Flows in the existing force main could reach a maximum of 13 MGD. Lift stations may not be taken off-line but times of low flows generally occur during the early morning hours of 12:00 a.m. to 4:00 a.m. Contact Chad Copher, City of Joplin Wastewater Maintenance Supervisor for further information on existing lift station operation.

3. Date Received: 8/13/2019 – Does Southern Star Central Gas require a permit?

   Answer: A permit is not required by Southern Star Central Gas however refer to note on drawing C005 on contacting Southern Star Central Gas before working within their easement. The Southern Star contact is Bill McLaughlin, 417.434.5245.

4. Date Received: 8/13/2019 – Will Southern Star Central Gas require boring under the gas line?

   Answer: Southern Star Central Gas has not indicated that boring will be required under the gas line. However, a steel casing pipe is required. See Addendum No. 001.

5. Date Received: 8/13/2019 – Is an anti-corrosive coating required on the interior of the concrete vaults?

   Answer: No. Coatings are not required on the interior of the air release vaults, crossover valve vault, or connection valve vault.

6. Date Received: 8/13/2019 – How should lead contaminated soil be handled if encountered during construction?

   Answer: Requirements for the handling of lead contaminated soil will be added to the Contract Documents. The City will provide testing of the soil at no cost to the Contractor. Hauling and disposal of contaminated soil will be paid at the unit price indicated on the Bid Form. See Addendum No. 001 for details.

7. Date Received: 8/13/2019 – Must the pipe be laid at the depth indicated on the plans? What tolerances will be allowed?

Answer: Pipe shall be laid at the depths indicated on the Contract Drawings. Tolerances have been added to specification Section 33 31 50. See Addendum No. 001 for details.

8. Date Received: 8/13/2019 – Is the bedding material to be ¾-inch clean rock?

   Answer: Requirements for bedding material are listed in specification Section 31 20 50 paragraph 2.03.B. Also see City of Joplin standard details for requirements under roadways.

9. Date Received: 8/13/2019 – Is ¾-inch clean rock required as backfill material above the entire pipe envelope?

   Answer: ¾-inch clean rock is only required as backfill material above the entire pipe envelop when crossing streets. See City of Joplin standard detail for requirements under roadways.

10. Date Received: 8/13/2019 – Is there any type of Buy American requirements for the project?

    Answer: No. The City does not have this requirement for locally funded work.

11. Date Received: 8/15/19 – Would the use of local subs be a factor to consider in awarding the work to a non-local contractor?

    Answer: Contractors should refer to the Joplin Local Vendor Policy. A portion of the policy is attached.

Every contract for capital construction of improvements in excess of $10,000 will contain a provision requiring the contractor to use products manufactured, assembled, or produced in the United States in the performance of the contract, if the quality and price are comparable with other available goods.

Post Consumer Products: Preference will be given to vendors or contractors who offer products which contain post consumer recyclable material if the quality and price are comparable with other available goods.

Federally Provided Funds: All federal requirements will be followed when purchasing goods and/or services with federally provided funds. Before placing an order with a vendor, each department will verify that the vendor is not debarred or suspended by the federal government on the web page. The web page address is **http:\\www.arnet.gov\epls**. The issuing department will verify that the prevailing wage is paid to all workers on construction contracts.

State of Missouri Vendors: Preference will be given to vendors or contractors who produce, manufacture, or market goods and/or services within the State of Missouri, if the quality and price are comparable with all other goods and/or services offered to the City and all other factors to be considered in the bid award process are equal.

Local Vendors:

1. Preference will be given to vendors or contractors who produce, manufacture, or market goods and/or services within the defined radius as described below, if the quality and price are comparable with all other goods and/or services offered to the City and all other factors to be considered in the bid award process are equal. When a formal written bid or proposal is not required, local vendors may be given an opportunity to match prices offered by non-local vendors, as long as the products are equal as to specifications and quality requirements.

2. A vendor or contractor is considered to be local if their principal place of business is located within a radius of twenty-five (25) miles from Joplin City Hall, with the majority of its primary business operations, including but not limited to, production, operation, purchasing, billing, marketing, management, administration and ownership, occurring within said radius. "Local" shall not include the following:

    (a) Those businesses with only a local post office box; or
    (b) Those businesses with a sales presence in the said radius, but no physical business location within the said radius; or
    (c) Home based businesses that merely take orders for products shipped from out-of-town to their customers.

3. When bids or proposals are received from both local and non-local vendors or contractors, the local bidder may be given preference in the awarding of the bid provided that its bid meets all other specification, quality, and service requirements in the following instances:

(a) If a local bidder is within three (3%) percent of the lowest bid from a non-local bidder on a bid or proposal from $3,000.00 up to $1,000,000.00, and within two (2%) percent on such bid or proposal from $1,000,000.00 up to $3,000,000.00, and within one (1%) percent on such bid or proposal from $3,000,000.00 to $5,000,000.00.

(b) The local purchasing preference policy shall not apply in the following instances:
    (1) When purchases and or contracts are funded in whole or in part by federal funds.
    (2) When such preference is in conflict with any applicable state or federal laws, rules or regulations.
    (3) When construction projects are financed with public assistance, including but not limited to, tax increment financing, Chapter 100 bonds, Chapter 353 redevelopment projects and enterprise zone redevelopment.

(c) In the event that a general/prime contractor wishes a bid to be considered local, such contractor must either be local as defined above and at least 51% of the value of the total work to be performed as set forth in the bid price must be accomplished by the general/prime contractor or subcontractors considered local pursuant to this policy as defined above; or, utilize subcontractors considered local who will perform at least sixty percent (60%) of the value of the total work to be performed as set forth in the bid. The general/prime contractor will be required to document this information and provide it with the bid in order for the bid to be considered under the local vendor preference policy.

E. Commodity Buying

Departments are encouraged to plan ongoing purchases of goods and/or services in a manner to take advantage of price discounts for quantity purchases of items, such as the following:

*Office and Stationary Supplies
*Janitorial and Paper Supplies

F. Encumbrance Accounting and Budgetary Control

Encumbrance accounting is employed as a practical means of controlling spending. Encumbrances are used to indicate that some unspent funds have been committed by means of purchase orders or executory contracts, and so are NOT available for new spending. Encumbrances are used to reflect committed, but unspent resources, thereby indicating the true balance of resources available for new spending.

The first step in the purchasing process is the preparation and approval of a budget. The budget establishes the levels of available funding and how the funds may be spent. Through the automated financial accounting system, all purchase requisitions and orders will be encumbered against available funds in the department's budget. Encumbrance accounting assists the City in maintaining proper budgetary control to assure that actual expenditures do not exceed annual appropriation levels. Monies committed through the issuance of

DOCUMENT 00 91 00 - ADDENDUM NO. 001

Issued to All Bid Document Holders of Record

Date: August 16, 2019

Project Name: Filmore Bridge Parallel Force Main

City of Joplin, Missouri

Burns & McDonnell Project No. 105643

This Addendum forms a part of the Contract described above. The original Contract Documents and any prior Addenda remain in full force and effect except as modified by the following which shall take precedence over any contrary provisions in the prior documents.

PROJECT MANUAL:

1. Section 00 40 00 – Bid Form: Replace with attached Section 00 40 00 dated 8/16/19.

2. Agreement with the City of Joplin, Rev 4-20-18: Replace with attached Agreement with the City of Joplin, Rev 1-1-19.

3. Section 01 27 00 – Measurement and Payment: Replace with attached Section 01 27 00 dated 8/16/19.

4. Section 33 31 50 – Pipe Installation, Page 333150-1: Replace Paragraph 3.01.A.1 with the following:

    1. Maintain within tolerances specified or acceptable laying schedule.
        a. Alignment: ±2 inch for all pipe.
        b. Grade: ±1 inch for pressure pipe.
            ±1/2 inch for gravity pipe.

5. Section 33 05 24 – Utility Casing: Add attached Section 33 05 24 – Utility Casing to the Project Manual.

CONTRACT DRAWINGS:

6. Drawing Cover Sheet: Replace with attached Cover Sheet, Rev 1.

7. Drawing C002-0: Replace with attached drawing C002-1.

8. Drawing C005-0: Replace with attached drawing C005-1.

9. Drawing C006-0: Replace with attached drawing C006-1.

10. Drawing C007-0: Replace with attached drawing C007-1.

11. Drawing C008-0: Replace with attached drawing C008-1.

12. Drawing C011-0: Replace with attached drawing C011-1.

13. Drawing C013-0: Replace with attached drawing C013-1.

14. Drawing C014-0: Replace with attached drawing C014-1.

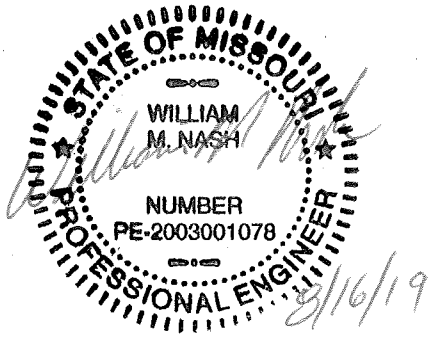
15. Drawing C015-0: Add attached drawing C015-1.

ADDENDUM NO. 001 ACKNOWLEDGEMENT AND CERTIFICATION

Each Bidder shall acknowledge receipt of this Addendum No. 001 by affixing their signature below, by noting this Addendum No. 001 on their Bid Form, and by attaching Addendum No. 1 to their Bid.

Burns & McDonnell Engineering Company
P.O. Box 419173
Kansas City, Missouri 64141-6173

ENGINEER'S CERTIFICATION



BIDDER ACKNOWLEDGEMENT

The undersigned acknowledges receipt of this Addendum and the Bid submitted is in accordance with information, instructions and stipulations set forth herein.

Bidder: _____

By: _____

Date: _____

END OF DOCUMENT 00 91 00

DOCUMENT 00 40 00 – BID FORM

Project Name: Filmore Bridge Parallel Force Main

BID TO:
Owner: City of Joplin, Missouri
Public Works Department
602 S. Main Street, 4th Floor
Joplin, Missouri 64801

BID FROM:
Bidder: _____
_____
_____
_____

ARTICLE 1 - BIDDER'S INTENT

1.01 The undersigned Bidder proposes and agrees, if this Bid is accepted, to enter into an agreement with Owner in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Bid price and within the Bid time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.

ARTICLE 2 - TERMS AND CONDITIONS

2.01 Bidder accepts all of the terms and conditions of the Invitation to Bid and Instructions to Bidders, including without limitation those dealing with the disposition of Bid security. This Bid will remain subject to acceptance for 60 days after the day of Bid opening. Bidder will sign and deliver the required number of counterparts of the Agreement with the Bonds and other documents required by the Bidding Requirements within 15 days after the date of Owner's Notice of Award.

ARTICLE 3 - BIDDER'S REPRESENTATIONS

3.01 In submitting this Bid, Bidder represents, as more fully set forth in the Agreement, that:

A. Bidder has examined and carefully studied the Bid Documents, and the following Addenda, receipt of all which is hereby acknowledged:

Number	Date
_____	_____
_____	_____
_____	_____
_____	_____

B. Bidder has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, performance, and furnishing of the Work.

C. Bidder is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, performance, and furnishing of the Work.

D. Bidder has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions in or relating to existing surface or subsurface structures at or contiguous to the Site; and (2) reports and drawings of a Hazardous Environmental Condition, if any, at the Site. Bidder acknowledges that such reports

and drawings are not Contract Documents and may not be complete for Bidder's purposes. Bidder acknowledges that Owner and Engineer do not assume responsibility for the accuracy or completeness of information and data shown or indicated in the Bid Documents with respect to Underground Facilities at or contiguous to the Site.

E. Bidder has obtained and carefully studied [or assumes responsibility for having done so] all such additional or supplementary examinations, investigations, explorations, tests, studies, and data concerning conditions [surface, subsurface, and Underground Facilities] at or contiguous to the Site or otherwise which may affect cost, progress, performance, or furnishing of the Work or which relate to any aspect of the means, methods, techniques, sequences, and procedures of construction to be employed by Bidder and safety precautions and programs incident thereto.

F. Bidder does not consider that any additional examinations, investigations, explorations, tests, studies, or data are necessary for the determination of this Bid for performing and furnishing of the Work in accordance with the times, price, and other terms and conditions of the Contract Documents.

G. Bidder is aware of the general nature of Work to be performed by Owner and others at the Site that relates to Work for which this Bid is submitted as indicated in the Contract Documents.

H. Bidder has correlated the information known to Bidder, information and observations obtained from visits to the Site, reports, and drawings identified in the Contract Documents, and all additional examinations, investigations, explorations, tests, studies, and data with the Contract Documents.

I. Bidder has given Engineer written notice of all conflicts, errors, ambiguities, or discrepancies that Bidder has discovered in the Contract Documents, and the written resolution thereof by Engineer is acceptable to Bidder.

J. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performing and furnishing the Work for which this Bid is submitted.

K. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization, or corporation; Bidder has not directly or indirectly induced or solicited any other Bidder to submit a false or sham Bid; Bidder has not solicited or induced any person, firm, or a corporation to refrain from bidding; and Bidder has not sought by collusion to obtain for itself any advantage over any other Bidder or over Owner.

L. Bidder will perform the Work in compliance with all applicable trench safety standards set forth in Occupational Safety and Health Administration (OSHA) Part 1926 - Subpart P - Excavations.

ARTICLE 4 - BID PRICE

4.01 Bidder will complete the Work in accordance with the Contract Documents for the following price(s):

A. UNIT PRICE SCHEDULE:

Item No.	Item Description	Estimated Quantity	Unit	Unit Cost	Total Cost
1.0	Mobilization / Demo-bilization	1	LS	NA	$_____
2.0	Bonds and Insurance	1	LS	NA	$_____

3.0	Construction Photo-graphs	1	LS	NA	$_____
4.0	Erosion Control / SWPPP	1	LS	NA	$_____
5.0	Install 72-inch Polymer Concrete Manhole	2	EA	$_____	$_____
6.0	Install 42-in SDR 26 PVC	67	LF	$_____	$_____
7.0	Install 24-inch PC 200 PVC (6.5'–12' Trench Depth)	3,633	LF	$_____	$_____
8.0	Install 24-inch PC 200 PVC (12.1'-17.5' Trench Depth)	350	LF	$_____	$_____
9.0	Install 8-inch PC 200 PVC	23	LF	$_____	$_____
10.0	Install Crossover Valve Vault	1	LS	NA	$_____
11.0	Install Connection Valve Vault	1	LS	NA	$_____
12.0	Install 36-in PVC Casing	50	LF	$_____	$_____
13.0	Install 3-inch Combina-tion Valve and Vault	2	EA	$_____	$_____
14.0	Install MODOT Type 3 Rock Ditch Liner	32	SY	$_____	$_____
15.0	Concrete Pavement Re-pair and Trench Back-fill (Canary Lane)	24	LF	$_____	$_____
16.0	Plug and Abandon Ex-isting Sewer	4	EA	$_____	$_____
17.0	Assure Continued Op-eration of the Sanitary Conveyance System	1	LS	NA	$_____
18.0	Install Gravel Entrance Road	1	LS	NA	$_____
19.0	Removal and Disposal of Contaminated Mate-rial	770	CY	$_____	$_____

TOTAL BID OF –

_____

_____Dollars ($_____)

Bidder acknowledges that quantities are not guaranteed and final payment will be based on actual quantities determined as provided in the Contract Documents.

B. SUPPLIERS/MANUFACTURERS: This Bid is based upon furnishing and installing major items of Equipment by the following Suppliers/manufacturers:

No.	Item	Supplier/Manufacturer
1	PVC Pipe	
2	Plug Valves	
3	Ductile Iron Pipe	
4	Polymer Concrete Manhole	
5	Air Release Valves	

C. SUBCONTRACTORS: This Bid is based upon use of the following Subcontractors:

No.	Item	Subcontractor
1		
2		
3		
4		

ARTICLE 5 - CONTRACT TIMES

5.01 Bidder agrees that the Work will be completed within the following time(s):

A. The Work will be Substantially Completed within 240 calendar days after the date when the Contract Times commence to run as provided in the GENERAL CONDITIONS, and completed and ready for final payment in accordance with the GENERAL CONDITIONS within 270 calendar days after the date when the Contract Times commence to run.

B. Bidder accepts the provisions of the Agreement as to liquidated damages in the event of failure to complete the Work within the times specified in the Agreement.

ARTICLE 6 - BID CONTENT

6.01 The following documents are attached to and made a condition of this Bid:

A. Required Bid security in the form of a Bid Bond in the amount of 5% of the total Bid price.

B. A tabulation of Subcontractors and other persons and organizations required to be identified in this Bid.

ARTICLE 7 - COMMUNICATIONS

7.01 Communications concerning this Bid shall be addressed to the Bidder as follows:

_____

_____

_____

Phone No. _____

FAX No. _____

e-mail address _____

ARTICLE 8 - TERMINOLOGY

8.01 The terms used in this Bid which are defined in the GENERAL CONDITIONS or Instructions to Bidders will have the meanings assigned to them.

SUBMITTED on _____, 2019.

State Contractor License No. _____. (If applicable)

If Bidder is :

An Individual

Name (type or printed): _____

By: _____ (SEAL)
(Individual's Signature)

Doing business as: _____
Business address: _____
_____

Phone No.: _____
FAX No.: _____

A Partnership

Partnership Name: _____ (SEAL)

By: _____
(Signature of general partner – attach evidence of authority to sign)

Name (type or printed): _____

Business address: _____
_____

Phone No.: _____
FAX No.: _____

A Corporation

Corporation Name: _____ (SEAL)
State of Incorporation: _____
Type (General Business, Professional, Service, Limited Liability): _____

_____

By: _____
(Signature – attach evidence of authority to sign)

Name (type or printed): _____

Title: _____

(CORPORATE SEAL)

Attest: _____
(Signature of Corporate Secretary)

Business address: _____
_____

Phone No.: _____
FAX No.: _____

END OF SECTION 00 40 00

AGREEMENT
BETWEEN
CITY OF JOPLIN AND

CITY		CONTRACTOR	
CITY OF JOPLIN **602 S. MAIN STREET** **JOPLIN, MO 64801**		Name: Address:	
Attention:		Attention:	
Department:		Phone:	Fax:
Phone:	Fax:		

THIS AGREEMENT, made and entered into this ____ day of _____, 20____, by the parties identified above.

WITNESSETH: That whereas, the Contractor has become the lowest responsible bidder for furnishing the supervision, labor, tools, equipment, materials and supplies and for constructing the following City improvements:

Filmore Bridge Parallel Force Main

The City and Contractor agree to the following:

1. Manner and Time for Completion. The Contractor will furnish all supervision, labor, tools, equipment, materials and supplies necessary to perform, and to perform said work at Contractor's own expense in accordance with the contract documents and any applicable City ordinances and state and federal laws within 270 calendar days from the date Contractor is ordered to proceed, which order shall be issued by the Director of Public Works within 30 days after the date of this contract.

2. Prevailing Wages. All labor utilized in the construction of the aforementioned improvements shall be paid a wage of no less than the "prevailing hourly rate of wages" for work of a similar character in this locality, as established and amended at any time by the Department of Labor and Industrial Relations of the State of Missouri. At any time the contractor is found to not have paid prevailing wages, the contractor shall forfeit as a penalty to the city one hundred dollars for each underpaid worker employed, for each calendar day, or portion thereof such worker is paid less than the said stipulated rates for any work done under this contract.

3. Insurance Requirements. Without limiting any of the other obligations or liabilities of the Contractor, the Contractor shall secure and maintain at its own cost and expense, throughout the duration of this Contract and until the work is completed and accepted by the City of Joplin, insurance of such types and in such amounts as may be necessary to protect it and the interests of the

City of Joplin against all hazards or risks of loss as hereunder specified or which may arise out of the performance of the Contract Documents. The form and limits of such insurance, together with the underwriter thereof in each case, are subject to approval by the City of Joplin. Regardless of such approval, it shall be the responsibility of the contractor to maintain adequate insurance coverage at all times during the term of the Contract. Failure of the Contractor to maintain coverage shall not relieve it of any contractual responsibility or obligation or liability in general or under the Contract Documents.

The certificates of insurance, including evidence of the required endorsements hereunder or the policies, shall be filed with the City within ten (10) days after the date of the receipt of Notice of Award of the Contract to the Contractor and prior to the start of work. All insurance policies shall require that the insurance company in question provide thirty (30) days written notice prior to modification or cancellation of such insurance. Such notices shall be mailed, certified mail, return receipt requested, to:

City of Joplin - Public Works, 602 S. Main Street, Joplin, MO 64801

Such policies shall name the City as an additional insured, with limits of liability not less than the sovereign immunity limits for Missouri public entities calculated by the Missouri Department of Insurance as of January 1 each calendar year and published annually in the Missouri Register pursuant to Section 537.610, RSMo. (See, http://insurance.mo.gov/industry/sovimmunity.php)

As of January 1, 2019, the minimum coverage for the insurance referred to herein shall be as set out below:

a. Workers' Compensation…. Statutory coverage per RSMo 287.010 et seq

Employer's Liability……. $1,000,000.00

b. Commercial General Liability Insurance, including coverage for Premises, Operations, Products and Completed Operations, Contractual Liability, Broad Form Property Damage, Independent Contractors, Explosion, Collapse, and Underground Property Damage and endorsed for blasting if blasting required. Such coverage shall apply to bodily injury and property damage on an "Occurrence Form Basis" with limits of at least Two Million Eight Hundred Sixty-Five Thousand Three Hundred Thirty and no/100 Dollars ($2,865,330.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Twenty Nine Thousand Seven Hundred Ninety-Nine and no/100 Dollars ($429,799.00) with respect to injuries and/or death of any one person in a single occurrence and an amount not less than at least $1,000,000 for all claims to property arising out of a single occurrence and at least $100,000 to any one owner with respect to damages to property. Contractor agrees that the proceeds of such insurance policy shall first be used to pay any award, damages, costs, and/or attorneys' fees incurred by or assessed against City, its employees, officers and agents, before payment of any award, damages, costs or attorneys' fees of Contractor, its employees, officers or agents. Contractor agrees to cause its insurer to name City as an additional insured on such insurance policy, including the City as an additional insured for coverage under its products-completed operations hazard, and said policy shall be primary and noncontributory.

c. Automobile Liability Insurance covering bodily injury and property damage for owned, non-owned and hired vehicles, with limits of at least Two Million Eight Hundred Sixty-Five Thousand Three Hundred Thirty and no/100 Dollars ($2,865,330.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Twenty Nine Thousand Seven Hundred Ninety-Nine and no/100 Dollars ($429,799.00) with respect to injuries and/or death of any one person in a single accident or occurrence.

d. Owner's and Contractor's Protective Liability Insurance to protect the City, its agents, servants and employees from claims which may arise from the performance of this Contract, with limits of at least Two Million Eight Hundred Sixty-Five Thousand Three Hundred Thirty and no/100 Dollars ($2,865,330.00) for all claims arising out of a single accident or occurrence and at least Four Hundred Twenty Nine Thousand Seven Hundred Ninety-Nine and no/100 Dollars ($429,799.00) with respect to injuries and/or death of any one person in a single accident or occurrence.

The Owner's and Contractor's Protective Liability Insurance must:

(1) Be a separate policy with the named insured being: The City of Joplin, and

(2) Contain an endorsement that disclaims coverage for any claim barred by the doctrines of sovereign immunity or official immunity, except attorney's fees and other litigation costs incurred in defending a claim. Nothing contained in this policy (or this endorsement thereto) shall constitute any waiver of whatever kind of these defenses or sovereign immunity or official immunity for any monetary amount whatsoever.

e. Builders Risk Insurance for contracts involving unoccupied structures. The Contractor shall secure All Risk Builder's Risk Insurance. Unless specifically authorized by the City, the amount of such insurance shall not be less than the total contract price.

f. Subcontracts. In case any or all of this work is sublet, the Contractor shall require the subcontractor to procure and maintain all insurance required in subparagraphs (a), (b) and (c) hereof and in like amounts. Contractor shall require any and all subcontractors with whom it enters into a contract to perform work on this project to protect the City of Joplin through insurance against applicable hazards or risks and shall, upon request of the City, provide evidence of such insurance.

g. Notice. The Contractor and/or subcontractor shall furnish the City prior to beginning the work, the policy as specified in subparagraph (d), and satisfactory proof of carriage of all the insurance required by this contract, with the provision that policies shall not be canceled, modified or non-renewed without thirty (30) days written notice to the City of Joplin.

h. Legislative or Judicial Changes. In the event the scope or extent of the City's tort liability as a governmental entity as described in Section 537.600 through 537.650 RSMo is broadened or increased during the term of this agreement by legislative or judicial action, the City may require Contractor, upon 10 days written notice, to execute a contract addendum whereby the Contractor agrees to provide, at a price not exceeding Contractor's actual increased premium cost, additional liability insurance coverage as the City may require to protect the City from increased tort liability exposure as the result of such legislative or judicial action. Any such additional insurance coverage shall be evidenced by an appropriate certificate of insurance and shall take effect within the time set forth in the addendum.

4. Performance, Labor, and Materials Payment Bond: The Contractor shall furnish a Performance Bond and a Labor and Materials Payment Bond with surety approved by the City and on the forms approved by the City, each bond shall be in the amount of $_____ (full amount of contract) conditioned upon the full and faithful performance of all major terms and conditions of this contract and payment of all labor and material suppliers. It is further mutually agreed between the parties hereto that if at any time after the execution of this agreement and the surety bond(s) hereto attached for its faithful performance and payment of labor and material suppliers, the City shall deem the surety or sureties upon such bond(s) to be unsatisfactory, or if, for any reason, such bond(s) ceases to be adequate to cover the performance of the work, the Contractor shall, at its expense, within five (5) days after the receipt of notice from the City to do so, furnish an additional bond or bonds, in such form and amount, and with such surety or sureties as shall be satisfactory to the City. In such event no further payment to the Contractor shall be deemed to be due under this contract until such new or additional security for the faithful performance of the work and the payment of labor and material suppliers shall be furnished in a manner and form satisfactory to the City. The corporate surety on any performance or payment bond must be licensed by the State of Missouri and if the required bond exceeds $25,000.00 must be listed in United States Treasury Circular 570.

5. Certification Regarding Disbarment, Eligibility, Indictments, Convictions or Civil Judgements for all Federal Aid Projects: By signing and submitting the bid, the president or authorized official of the bidder, under penalty of perjury under the laws of the USA, shall certify that, except as noted in the exceptions, the company or any person associated therewith in the capacity of owner, partner, director, officer, principal investor, project director, manager, auditor or any position involving the administration of federal funds:
(Reference can be made to "The System for Award Management" website as a helpful resource).

a. Is not currently under suspension, debarment, voluntary exclusion or determination of ineligibility by any federal agency.

b. Has not been suspended, debarred, voluntarily excluded or determined ineligible by any federal agency within the past three years.

c. Does not have a proposed debarment or suspension pending.

d. Has not been indicted, convicted or had a civil judgment rendered against any of the listed parties by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past three years.

5.1 If there are any exceptions, the bidder shall submit the exceptions on company letterhead, signed by the bidder and inserted inside the bid submitted. Exceptions will not necessarily result in denial of award, but will be considered in determining bidder responsibility. For any exception noted, the bidder shall indicate to whom it applies, the initiating agency, and dates of action. Providing false information may result in criminal prosecution or administrative sanctions.

5.2 By signing the contract, the contractor shall further certify that all related subcontracts of $25,000 shall comply with this requirement. This includes all subcontractors, material suppliers and vendors.

6. Contractor's responsibility for subcontractors. The Contractor shall be as fully responsible to the City for the acts and omissions of its subcontractors, and of persons either directly or indirectly employed by them, as Contractor is for the acts and omissions of persons it directly employs. Contractor shall cause appropriate provisions to be inserted in all subcontracts relating to this work, to bind all subcontractors to Contractor by all the terms herein set forth, and insofar as applicable to the work of subcontractors and to give Contractor the same power regarding termination of any subcontract as the City may exercise over Contractor under any provisions of this contract. Nothing contained in this contract shall create any contractual relation between the subcontractor and the City or between any subcontractors.

7. General Independent Contractor Clause. This agreement does not create an employee/employer relationship between the parties. It is the parties' intention that the Contractor will be an independent contractor and not the City's employee for all purposes, including, but not limited to, the application of the Fair Labor Standards Act minimum wage and overtime payments, Federal Insurance Contribution Act, the Social Security Act, the Federal Unemployment Tax Act, the provisions of the Internal Revenue Code, Missouri Revenue and Taxation laws, Missouri Workers' Compensation and Unemployment Insurance laws. The Contractor will retain sole and absolute discretion in the judgment of the manner and means of carrying out the Contractor's activities and responsibilities hereunder. The Contractor agrees that it is a separate and independent enterprise from the public employer, that it has a full opportunity to find other business, that it has made its own investment in its business, and that it will utilize a high level of skill necessary to perform the work. This agreement shall not be construed as creating any joint employment relationship between the Contractor and the City, and the City will not be liable for any obligation incurred by the Contractor, including but not limited to unpaid minimum wages and/or overtime premiums.

8. Liquidated Damages. Time of completion of work by the Contractor is of the essence. Should Contractor, or in the case of default, the surety, fail to complete the work within the time specified in the contract, or within such extra time as may be allowed in accordance with City of Joplin Standard Specifications, Division 0000, General Requirements and Provisions, Section 0400.19, (http://mo-joplin.civicplus.com/DocumentCenter/View/3460) Contractor (or surety) shall be liable to the City in the amount of $1,000.00 per day for each and every calendar day that the contract remains uncompleted after the time allowed for completion, as liquidated damages, and not as a penalty, it being stipulated that actual damages to the City and the public arising from Contractor's failure to timely complete the work would be difficult, if not impossible, to ascertain. The amount assessed as liquidated damages may be withheld from any moneys otherwise due to Contractor from the City.

9. Termination. The City reserves the right to terminate this contract by giving at least five (5) days prior written notice to the Contractor, without prejudice to any other rights or remedies of the City should the Contractor be adjudged a bankrupt, or if Contractor should make a general assignment for the benefit of its creditors, or if a receiver should be appointed for Contractor or for any of its property, or if Contractor should persistently or repeatedly refuse or fail to supply enough properly skilled workmen or proper material, or if Contractor should refuse or fail to make prompt payment to any person supplying labor or materials for the work under the contract, or persistently disregard instructions of the City or fail to observe or perform any provisions of the contract.

10. City's Right to Proceed. In the event this contract is terminated pursuant to Paragraph 8, then the City may take over the work and prosecute the same to completion, by contract or otherwise, and Contractor and its sureties shall be liable to the City for any costs over the amount of this contract thereby occasioned by the City. In any such case, the City may take possession of, and utilize in completing the work, such materials, appliances and structures as may be on the work site and are necessary for completion of the work. The foregoing provisions are in addition to, and not in limitation of, the rights of the City under any other provisions of the contract, city ordinances, and state and federal laws.

11. Termination for Convenience of City. The City shall have the right at any time by written notice to Contractor to terminate and cancel this contract, without cause, for the convenience of the City, and Contractor shall immediately stop work. In such event City shall not be liable to Contractor except for payment for actual work performed prior to such notice in an amount proportionate to the completed contract price and for the actual costs of preparations made by Contractor for the performance of the cancelled portions of the contract, including a reasonable allowance of profit applicable to the actual work performed and such preparations. Anticipatory profits and consequential damages shall not be recoverable by Contractor.

12. Guards and Lights. The Contractor agrees that during the performance of said work, adequate barricades, guards and warning signs, lights or devices consistent with the requirements contained in the Manual on Uniform Traffic Control Devices shall be provided by Contractor during construction.

13. Liability and Indemnity.

a. In no event shall the City be liable to the Contractor for special, indirect, or consequential damages, except those caused by the City's gross negligence or willful or wanton misconduct arising out of or in any way connected with a breach of this contract. The maximum liability of the City shall be limited to the amount of money to be paid or received by the City under this contract.

b. The Contractor shall defend, indemnify and save harmless the City, its elected or appointed officials, agents and employees from and against any and all liability, suits, damages, costs (including attorney fees), losses, outlays and expenses from claims in any manner caused by, or allegedly caused by, or arising out of, or connected with, this contract, or the work or any subcontract thereunder (the Contractor hereby assuming full responsibility for relations with subcontractors), including, but not limited to, claims for personal injuries, death, property damage, or for damages from the award of this contract to Contractor, notwithstanding any possible negligence, whether sole or concurrent, on the part of the City, its officials, agents and employees.

c. The Contractor shall indemnify and hold the City harmless from all wages or overtime compensation due any employees in rendering services pursuant to this agreement or any subcontract, including payment of reasonable attorneys' fees and costs in the defense of any claim made under the Fair Labor Standards Act, the Missouri Prevailing Wage Law or any other federal or state law.

d. The indemnification obligations of Contractor hereunder shall not be limited by any limitations as to the amount or type of damages, compensation or benefits payable by or for the Contractor, under any federal or state law, to any person asserting the claim against City, its elected or appointed officials, agents and employees, for which indemnification is sought.

e. The indemnification obligations herein shall not negate, abridge or reduce in any way any additional indemnification rights of the City, its elected or appointed officials, agents and employees, which are otherwise available under statute, or in law or equity.

f. Contractor affirms that it has had the opportunity to recover the costs of the liability insurance required in this agreement in its contract price. Contractor's obligation under this agreement to defend, indemnify, and hold harmless any person from that person's own negligence or wrongdoing is limited to the coverage and limits of the applicable insurance required of the Contractor under this agreement.

g. The Contractor shall indemnify and hold the City harmless for any penalties, fines, fees or costs, including costs of defense, which are charged or assessed by any Federal, state or local agency including, but not limited to, Environmental Protection Agency or Department of Natural Resources.

14. Payment for Labor and Materials. The Contractor agrees and binds itself to pay for all labor done, and for all the materials used in the construction of the work to be completed pursuant to this contract.

15. Payment. The City will pay the Contractor in accordance with the rate set forth in the contract documents on file in the Public Works Department and by this reference made a part hereof, which shall constitute full and complete compensation for the Contractor's work provided hereunder. Such compensation will be paid in progress payments (less five (5) percent retainage), as established by the City, subject to receipt of a requisition for payment and a statement of work provided by the Contractor and agreement by both the City and the Contractor that the Contractor has fully performed the work to be paid for in such progress payments in conformance with the contract. If the City or the architect or engineer determines that a higher rate of retainage is required to ensure performance of the contract, the City may withhold up to ten (10) percent retainage until the work is fully completed and accepted by the City.

16. Contract Documents. The contract documents shall consist of the following:

a. This Contract
b. All Change Orders
c. Bid Plans and Specifications
d. City of Joplin Standard Specifications (Latest Revised Edition)
e. Special Conditions & Provisions
f. Proposal
g. Statement of Bidder's Qualifications
h. Acknowledgment
i. Performance Bond

h. Payment and Material Bond
k. Instructions to Bidders
l. Non-collusion Affidavit
m. Notice to Proceed

Notice to Contractors: This contract, together with the other documents enumerated in this paragraph, forms the contract between the parties. These documents are as fully a part of the contract as if attached hereto or repeated herein. The Contractor agrees to perform all of the work described in the contract documents and to comply with the terms and conditions defined therein for a total sum of _____($_____) dollars, said amount being subject to any approved addenda or change order.

17. Subsurface Conditions. Contractor agrees that information contained in the published reports and public actions of the Missouri Division of Geology and Land Survey shall be conclusive and binding upon the Contractor as to what subsurface conditions at the job site are reasonably anticipated or reasonably foreseeable. Contractor acknowledges and agrees that it shall not be entitled to any adjustment in the Contract Sum or Contract Times for any concealed condition of any nature, including but not limited to unknown physical conditions of an unusual nature which differ materially from those ordinarily found to exist and generally recognized as inherent in construction activities of the character provided for in the Contract Documents, in addition to the information contained in the published reports and public actions of the Missouri Division of Geology and Land Survey. Contractor recognizes that it has assumed the risks of concealed conditions and is being compensated for assuming these risks.

18. Conflict of Interest. In accepting this contract, Contractor certifies that no member or officer of its firm or corporation is an officer or employee of the City of Joplin, Missouri, or any of its boards or agencies, and further that no officer or employee of the City has any financial interest, direct or indirect, in this contract. All applicable federal regulations and provisions of R.S.Mo. Section 105.450 et seq. shall not be violated.

19. Assignment. The Contractor shall not assign any interest in this contract, and shall not transfer any interest in the same (whether by assignment or novation), without prior written consent of the City thereto, provided, however, that claims for money due or to become due to the Contractor from the City under this Contract may be assigned to a bank, trust company, or other financial institution without such approval. Notice of such assignment or transfer shall be furnished in writing promptly to the City and the bond surety. Any such assignment is expressly subject to all rights and remedies of the City under this agreement, including the right to change or delete activities from the Contract or to terminate the same as provided herein, and no such assignment shall require the City to give any notice to any such assignee of any actions which the City may take under this agreement.

20. Nondiscrimination. The Contractor agrees in the performance of this contract not to discriminate on the ground or because of race, creed, color, national origin or ancestry, sex, religion, handicap, age, status as a protected veteran or status as a qualified individual with a disability, or political opinion or affiliation, against any employee of Contractor or applicant for employment and shall include a similar provision in all subcontracts let or awarded hereunder. The parties hereby incorporate the requirements of 41 C.F.R. §§ 60-1.4(a)(7), 29 C.F.R. Part 471, Appendix A to Subpart A, 41 C.F.R. § 60-300.5(a)ii and 41 C.F.R. § 60-741.5(a), if applicable.

a. This contractor and subcontractor shall abide by the requirements of 41 C.F.R. § 60-300.5(a). This regulation prohibits discriminations against qualified protected veterans, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified protected veterans.

b. This contractor and subcontractor shall abide by the requirements of 41 C.F.R. § 60-741.5(a). This regulation prohibits discrimination against qualified individuals on the basis of disability, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified individuals with disabilities.

21. Nonresident/Foreign Contractors. The Contractor shall procure and maintain during the life of this contract:

a. If the Contractor is a foreign corporation, a certificate of authority to transact business in the State of Missouri from the Secretary of State, unless exempt pursuant to the provisions of Section 351.570 R.S.Mo.

b. A certificate from the Missouri Director of Revenue evidencing compliance with the transient employer financial assurance law, unless exempt pursuant to the provisions of Section 285.230 RSMo.

22. Notices. All notices required or permitted hereinunder and required to be in writing may be given by FAX or by first class mail addressed to City and Contractor at the addresses shown above. The date of delivery of any notice given by mail shall be the date falling on the second full day after the day of its mailing. The date of delivery of notice by FAX transmission shall be deemed to be the date transmission occurs, except where the transmission is not completed by 5:00 p.m. on a regular business day at the terminal of the receiving party, in which case the date of delivery shall be deemed to fall on the next regular business day for the receiving party.

23. Records and Audits. The Contractor shall maintain accounts and records, including personnel, property, and financial records, adequate to identify and account for all costs pertaining to the Contract and such other records as may be deemed necessary by the City to assure proper accounting for all project funds. These records will be made available for audit purposes to the City or any authorized representative, and will be retained for three years after the expiration of this Contract.

24. Authorized Employees. Contractor acknowledges that Section285.530, RSMo, prohibits any business entity or employer from knowingly employing, hiring for employment, or continuing to employ an unauthorized alien to perform work within the State of Missouri. Contractor therefore covenants that is not knowingly in violation of subsection 1 or Section 285.530, RSMo, and that it will not knowingly employ, hire for employment, or continue to employ any unauthorized aliens to perform work on the Project, and that its employees are lawfully to work in the United States.

25. Interest of Contractor and Employees. The Contractor covenants that he/she presently has no interest and shall not acquire interest, direct or indirect, in the study area or any parcels therein or any other interest which would conflict in any manner or degree with the performance of his services hereunder. The Contractor further covenants that in the performance of this Contract, no person having any such interest shall be employed.

26. Interest of Members of a City. No member of the governing body of the City and no other officer, employee, or agent of the City who exercises any functions or responsibilities in connection with the planning and carrying out of the program, shall have any personal financial interest, direct or indirect, in this Contract, and the Contractor shall take appropriate steps to assure compliance.

27. Interest of Other Local Public Officials. No member of the governing body of the locality and no other public official of such locality, who exercises any functions or responsibilities in connection with the planning and carrying out of the program, shall have any personal financial interest, direct or indirect, in this Contract, and the Contractor shall take appropriate steps to assure compliance.

28. Affidavit for Contracts Over $5,000.00. That pursuant to Missouri Revised Statute Sections 285.525 through 285.550, if this contract exceeds the amount of $5,000.00 and Contractor is associated with a business entity, Contractor shall provide an acceptable notarized affidavit stating that the associated business entity is enrolled in and participates in a federal work authorization program with respect to the employees working in connection with the contracted services, and that said business entity does not knowingly employ any person who is an unauthorized alien in connection with the contracted services. Additionally, Contractor must provide documentation for said business entity evidencing current enrollment in a federal work authorization program.

29. City Benefits. The Contractor shall not be entitled to any of the benefits established for the employees of the City nor be covered by the Worker's Compensation Program of the City.

30. Occupational License: The Contractor shall obtain and maintain an occupational license with the City of Joplin, Missouri, if required by city code and any required state or federal license. The cost for this occupational license shall be borne by the Contractor. No contract will be executed by the City until this occupational license has been obtained and that the Contractor is current on any City taxes is verified.

31. Safety Training. Pursuant to Missouri Revised Statute Section 292.675, Contractors and subcontractors who sign a contract to work on public works projects must provide a 10-hour OSHA construction safety program, or similar program approved by the Department of Labor and Industrial Relations, to be completed by their on-site employees within sixty (60) days of beginning work on the construction project. Contractors and subcontractors in violation of this provision will forfeit to the public body $2,500 plus $100 a day for each employee who is employed without training. Public bodies and contractors may withhold/assess these penalties from the payment due to those contractors and subcontractors if found to be in non-compliance.

32. Compliance with Laws. Contractor agrees to comply with all applicable federal, state and local laws or rules and regulations applicable to the provision of services and products hereunder. Contractor affirmatively states that payment of all local, state, and federal taxes and assessments owed by Contractor is current.

33. Entire Agreement. This agreement contains the entire agreement of the parties. No modification, amendment, or waiver of any of the provisions of this agreement shall be effective unless in writing specifically referring hereto, and signed by both parties.

34. Remedies. Except as may be otherwise found in the contract documents, all claims, disputes, counter-claims, and other matters in question between the Owner and Contractor arising out of or related to this agreement or the breech thereof, will be decided by arbitration if the parties hereto mutually agree, or in a court of competent jurisdiction within the state in which the Owner is located.

35. Jurisdiction. This agreement and every question arising hereunder shall be construed or determined according to the laws of the State of Missouri. Should any part of this agreement be adjudicated, venue shall be proper only in the Circuit Court of Jasper County, Missouri.

IN WITNESS WHEREOF, the parties hereto have set their hands and seals on the day and year herein stated.

CONTRACTOR:

CERTIFICATE OF DIRECTOR OF FINANCE

I certify that the expenditure contemplated by this document is within the purpose of the appropriation to which it is to be charged and that there is an unencumbered balance of appropriated and available funds to pay therefor.

By: _____

Printed Name: _____

Title: _____

_____
Leslie Haase, Director of Finance

CITY OF JOPLIN, MISSOURI

APPROVED AS TO FORM

By: _____
David Hertzberg, Public Works Director

_____
Peter Edwards, City Attorney

SECTION 01 27 00 - MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SUMMARY:

A. This Section includes provisions for measurement and computation of payment for the Work. The various Unit Prices and Lump Sum Prices listed in the Unit Price Schedule on the Bid Form, all aggregating to the Contract Price, shall constitute full payment for all Work required by the Contract Documents.

1.02 UNIT PRICE PAYMENT AMOUNTS:

A. The unit price and payment made for each item listed shall constitute full payment for labor, materials not furnished by Owner, equipment, shoring, removal, clearing, grubbing, overhead, profit, insurance, incidentals, etc. to perform the Work required for which separate payment is not otherwise provided. Cost of all applicable taxes, permits, etc. shall be included in the cost of construction of this Project.

B. Even though an item of the Work is included in the Contract Documents, if it is not both covered herein and specifically itemized on the Unit Price Schedule on the Bid Form, payment for the item shall not be separately made. Such Work shall be considered a necessary part of or incidental to its related Work.

C. The Contractor shall be paid only for quantities installed and approved by the Owner or the Resident Project Representative. Measurement for payment on a unit price basis shall be as described below. Payment for each unit installed shall be made according to the unit price bid, as listed in the Unit Price Schedule.

D. The quantities listed on the Unit Price Schedule are estimated and are only to be used as a basis for estimating the probable cost of the Work and for the comparison of bids submitted for the Work. The Contractor will be paid for the units of work actually installed (quantity) times the unit price bid for the appropriate line item as listed in the Unit Price Schedule.

1.03 LUMP SUM PAYMENT AMOUNTS:

A. The lump sum and payment made for each item listed shall constitute full payment for labor, materials not furnished by Owner, equipment, shoring and trench safety provisions, removal, clearing, grubbing, overhead, profit, incidentals, etc. to perform the Work required for which separate payment is not otherwise provided. Cost of all applicable taxes, permits, etc. shall be included in the cost of construction of this Project.

B. Even though an item of the Work is included in the Contract Documents, if it is not both covered herein and specifically itemized on the Unit Price Schedule on the Bid Form, payment for the item shall not be separately made. Such Work shall be considered a necessary part of or incidental to its related Work.

1.04 SPECIFIC MEASUREMENT AND PAYMENT PROVISIONS FOR INDIVIDUAL PAY ITEMS:

A. General: The following paragraphs provide general descriptions of the Work and associated measurement and payment provisions for each of the pay items listed in the Bid Form.

B. Bid Item 1.0 – MOBILIZATION / DEMOBILIZATION - “Mobilization / Demobilization” shall be paid on a lump sum (LS) basis at the unit price listed on the Unit Price Schedule. Mobilization shall include the preparatory work and operations, including, but not limited to,

those necessary for the movement of personnel, equipment, supplies and incidentals to the project site, for the establishment of all office, buildings, and other facilities necessary for work on the project, and for all other work and operations which must be performed or costs incurred prior to beginning work on the various items on the project site (including, but not limited to, all contractor pre-construction documentation and meetings, preparing schedules, submittals, submitting pre-construction photos, etc.).

1. Payment: Payment will be made for costs associated with Mobilization and Demobilization with 50% being paid after initial Mobilization to site and 50% being paid after Demobilization from the Site.

C. Bid Item 2.0 - BONDS AND INSURANCE – "Bonds and Insurance" shall be paid on a lump sum (LS) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for furnishing all bonds and insurance required by the Contract Documents.

D. Bid Item 3.0 - CONSTRUCTION PHOTOGRAPHS – "Construction Photographs" shall be paid on a lump sum (LS) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for conforming to requirements found in the Contract Documents.

E. Bid Item 4.0 - EROSION CONTROL, SWPPP – "Erosion Control, SWPPP" shall be paid on a lump sum (LS) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for conforming to the project's stormwater pollution prevention plan including plan development and approval, installation, maintenance, and ultimately removal following completion of work of best management practice measures.

F. Bid Item 5.0 - INSTALL 72-INCH POLYMER CONCRETE MANHOLE – "Install 72-inch Polymer Concrete Manhole" shall be paid for by each (EA) manhole installed complete at the unit price listed on the Unit Price Schedule. Payment will be for all excavation, dewatering, crushed stone layer, precast manhole including pipe connectors, connections to existing and proposed piping, joint sealant and wrap, poured in place reinforced concrete 12-inch base, frame and cover, testing, backfill, surface restoration, and all other materials, labor, and incidentals necessary to perform work. Excavation shall include, but not be limited to soil, stones, stumps, debris, concrete, structures, footings, foundations, and any other obstacles that may obstruct the work.

G. Bid Item 6.0 - INSTALL 42-INCH SDR 26 PVC – "Install 42-inch SDR 26 PVC" shall be paid for on a linear foot (LF) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for complete installation measured along the center of the excavated trench from center of manhole to center of manhole. Payment will be for all excavation, dewatering, pipe, placement of bedding/embedment, backfill, connections to manholes, testing, surface restoration, and all other materials, labor, and incidentals necessary to perform work. Excavation shall include, but not be limited to soil, stones, stumps, debris, concrete, structures, footings, foundations, and any other obstacles that may obstruct the work.

H. Bid Item 7.0 - INSTALL 24-INCH PC 200 PVC (6.5' – 12' TRENCH DEPTH) – "Install 24-inch PC 200 PVC (6.5' – 12' Trench Depth)" shall be paid for on a linear foot (LF) basis at the unit price listed on the Unit Price Schedule. Work performed and accepted under this item will be measured along the center of the excavated trench. Payment will be for all excavation, dewatering, pipe, placement of bedding/embedment, backfill, tracer wire, joint restraint systems, connections to existing pipes, all necessary ductile iron fittings, testing, surface restoration including final grading and seeding, and all other materials, labor, and incidentals necessary to perform work. Excavation shall include, but not be limited to soil, stones, stumps, debris, concrete, structures, footings, foundations, and any other obstacles that may obstruct the work.

SECTION 01 27 00 - MEASUREMENT AND PAYMENT

I. Bid Item 8.0 - INSTALL 24-INCH PC 200 PVC (12.1' – 17.5' TRENCH DEPTH) – "Install 24-inch PC 200 PVC (12.1' – 17.5' Trench Depth)" shall be paid for on a linear foot (LF) basis at the unit price listed on the Unit Price Schedule. Work performed and accepted under this item will be measured along the center of the excavated trench. Payment will be for all excavation, dewatering, pipe, placement of bedding/embedment, backfill, tracer wire, joint restraint systems, connections to existing pipes, all necessary ductile iron fittings, testing, surface restoration including final grading and seeding, and all other materials, labor, and incidentals necessary to perform work. Excavation shall include, but not be limited to soil, stones, stumps, debris, concrete, structures, footings, foundations, and any other obstacles that may obstruct the work.

J. Bid Item 9.0 - INSTALL 8-INCH PC 200 PVC – "Install 8-inch PC 200 PVC " shall be paid for on a linear foot (LF) basis at the unit price listed on the Unit Price Schedule. Work performed and accepted under this item will be measured along the center of the excavated trench. Payment will be for all excavation, dewatering, pipe, placement of bedding/embedment, backfill, tracer wire, joint restraint systems, connections to existing pipes, all necessary ductile iron fittings, testing, surface restoration including final grading and seeding, and all other materials, labor, and incidentals necessary to perform work. Excavation shall include, but not be limited to soil, stones, stumps, debris, concrete, structures, footings, foundations, and any other obstacles that may obstruct the work.

K. Bid Item 10.0 - INSTALL CROSSOVER VALVE VAULT – "Install Crossover Valve Vault" shall be paid on a lump sum (LS) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for furnishing and installing the complete vault assembly including potholing the existing 24-inch force main at the tie in point, excavation, dewatering, reinforced concrete cast in place vault with hatch, transitioning from PVC to DIP pipe materials, providing 24-inch DIP PC 250 for all exposed piping located in the vault as well as for the crossover connection to the existing force main, solid sleeves for the crossover connection to the existing force main , pipe stands, plug valves, dismantling joints, necessary fittings, backfilling and final grading, and all other equipment, tools, labor, and incidentals necessary to complete the work.

L. Bid Item 11.0 - INSTALL CONNECTION VALVE VAULT – "Install Connection Valve Vault" shall be paid on a lump sum (LS) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for furnishing and installing the complete vault assembly including potholing the existing 24-inch force main at the tie in point, excavation, dewatering, reinforced concrete cast in place vault with hatch, transitioning from PVC to DIP pipe materials, providing 24-inch DIP PC 250 for all exposed piping located in the vault as well as for the connection piping to the existing force main, solid sleeves for the connection of the new force main to the existing force main , pipe stands, plug valves, dismantling joints, necessary fittings, joint restraint, backfilling and final grading, and all other equipment, tools, labor, and incidentals necessary to complete the work.

M. Bid Item 12.0 - INSTALL 36-INCH PVC CASING – "Install 36-inch PVC Casing" shall be paid for on a linear foot (LF) basis at the unit price listed on the Unit Price Schedule. Work performed and accepted under this item will be measured along the center of the excavated trench. Payment will be for all excavation, dewatering, casing pipe, placement of bedding/embedment, backfill, installation of carrier pipe including joint restraint systems, casing spacers, and end seals, surface restoration, and all other materials, labor, and incidentals necessary to perform work. Excavation shall include, but not be limited to soil, stones, stumps,

debris, concrete, structures, footings, foundations, and any other obstacles that may obstruct the work.

N. Bid Item 13.0 - INSTALL 3-INCH COMBINATION VALVE AND VAULT – "Install 3-inch Combination Valve and Vault" shall be paid for by each (EA) complete combination valve assembly and vault installed complete at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for all complete valve assemblies including tapping saddle, isolation valve, associated piping and fittings, vault riser, top slab, lid, vent, insulation, and incidentals necessary to complete the combination valve/vault assembly.

O. Bid Item 14.0 - INSTALL MODOT TYPE 3 ROCK DITCH LINER – "Install MODOT Type 3 Rock Ditch Liner" shall be paid for on a per square yard (SY) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for furnishing and installing all materials and appurtenant work required to place the clean gravel bedding and rock liner and shall include all excavation (including rock removal if necessary), backfilling and all related materials and work necessary to provide a rock ditch liner as intended by the Contract Documents.

P. Bid Item 15.0 - CONCRETE PAVEMENT REPAIR AND TRENCH BACKFILL (CANARY LANE) – "Concrete Pavement Repair and Trench Backfill (Canary Lane)" shall be paid for on a linear foot (LF) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation to repair the Canary Lane crossing including saw cut the existing road surface, restore trench backfill following pipe installation and install non reinforced concrete pavement as required in the City of Joplin standard detail found in these Contract Documents.

Q. Bid Item 16.0 - PLUG AND ABANDON EXISTING SEWER – "Plug and Abandon Existing Sewer" shall be paid for by each (EA) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for completing all work to abandon the existing sewer lines in conformance with requirements found in the Contract Documents.

R. Bid Item 17.0 –ASSURE CONTINUED OPERATION OF THE SANITARY CONVEYANCE SYSTEM – "Assure Continued Operation of the Sanitary Conveyance System" shall be paid on a lump sum (LS) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for installing and operating all necessary temporary systems designed to assure continued operation of the sanitary conveyance system throughout construction, and removal of all temporary system elements upon substantial completion.

S. Bid Item 18.0 – INSTALL GRAVEL ENTRANCE ROAD – "Install Gravel Entrance Road" shall be paid on a lump sum (LS) basis at the unit price listed on the Unit Price Schedule. Payment shall be full compensation for installing and completing all work for construction of the gravel entrance road to include all necessary boundary staking, clearing and grubbing, installation of 52 LF of 44 x 27-inch reinforced concrete arch pipe in the ditch line, filling and compacting, base preparation, and installation and compaction of an 8-inch crushed stone surface.

T. Bid Item 19.0 – REMOVAL AND DISPOSAL OF CONTAMINATED MATERIALS – This work shall include all measures necessary for removal and disposal of materials contaminated by heavy metals on the project in accordance with federal, state, City of Joplin requirements, and as directed by the Engineer. The contractor shall utilize and comply with all requirements of the City of Joplin's standard operating procedures. "Removal and Disposal of Contaminated Materials" shall be paid for on a cubic yard (CY) basis at the unit price listed on the Unit Price Schedule. Unit Prices shall only include those additional costs associated with hauling contaminated materials beyond the distance the contractor is disposing of excess, or unsuitable, materials. Only contaminated soils and chat shall be placed in the repository, no demolition

materials shall be paid for under contaminated material removal. At the beginning of the project, the contractor and engineer shall agree upon the quantity of contaminated material to be placed in a truck. Measurements shall be made by averaging bucket counts of the excavation equipment and measurement of the truck bed volume after leveling off a filled truck. Payment shall be full compensation for furnishing all labor, equipment, disposal fees, and the performance of all work necessary for additional hauling of "Contaminated Materials".

PART 2 - PRODUCTS - Not Applicable.

PART 3 - EXECUTION - Not Applicable.

END OF SECTION 01 27 00

SECTION 330524 - UTILITY CASINGS

PART 1 - GENERAL

1.01 SUMMARY: This Section includes casing pipe, casing spacers, and end seals where indicated.

1.02 REFERENCES:

A. Applicable Standards:

1. American Petroleum Institute (API):
    a. API RP1102 - Recommended Practice for Liquid Petroleum Pipelines Crossing Railroads and Highways.
    b. API 1104 - Standard for Welding Pipelines and Related Facilities.
2. American Society for Testing and Materials (ASTM):
    a. A36 - Carbon Structural Steel.
    b. A570 - Hot-Rolled Carbon Steel Sheet and Strip, Structural Quality.
    c. C32 - Sewer and Manhole Brick (Made from Clay or Shale).
    d. C270 - Mortar for Unit Masonry.
3. American Water Works Association (AWWA):
    a. C200 - Steel Water Pipe 6 Inches (150 mm) and Larger.
    b. C206 - Field Welding of Steel Water Pipe.
4. Society for Protective Coatings (SSPC):
    a. SP-3 - Power Tool Cleaning.

1.03 SUBMITTALS:

A. Submit as specified in DIVISION 1.

B. Submit the following for acceptance prior to shipment:

1. Pipe
2. Casing Spacers.
3. End Seals.

C. Affidavits:

1. Furnish for acceptance prior to shipment to jobsite.
2. Certify compliance with applicable standards for the following:
    a. Casing material.
    b. Casing paint coating/lining system.

PART 2 - PRODUCTS

2.01 MATERIALS:

A. Casing Pipe: New, smooth wall, welded steel pipe fabricated from ASTM A36 plate or ASTM A570 sheet with a minimum yield point of 248 MPa (36,000 psi), conforming to AWWA C200. Furnish pipe with minimum wall thickness as follows:

1. Minimum Casing Thicknesses:

Casing Diameter in.	Wall Thickness Under Gas Main in.
36	0.750

2. Minimum casing inside diameter shall exceed outside diameter of carrier pipe joints or couplings by 4 inches.

3. Schedule:

Location	Carrier Pipe Diameter	Carrier Pipe Material	Carrier Joint Diameter	Casing Diameter	Casing Min. Thickness
Sta 10+65 to Sta 11+15	24-inch	PVC	31.5-inches	36-inches	0.75 -inches

B. Coatings and Linings:

1. Coat exterior and line interior of all casing pipe with iron oxide primer applied at 0.04 mm (1.5 mils) minimum thickness.
2. Hold coatings back from end joints to be welded at least 2 inches) each side of joint.

C. Joints:

1. All joints in steel pipe casings shall be field welded to conform to API 1104 or AWWA C206.
2. Clean to SSPC-SP3 and apply iron oxide field coating to all exterior joints after field welding.
3. Clean to SSPC-SP3 and apply iron oxide field coating to all interior joints on casings 24-inch diameter and larger after field welding.

PART 3 - EXECUTION

3.01 INSTALLATION:

A. All Work shall, as a minimum, meet the requirements of API RP1102 and the highway, railroad, or utility having jurisdiction, and shall be subject to their inspection and approval.

B. Install Casing Pipes:

1. Including measures for maintaining indicated line and grade for casings 24-inch and larger within a plus or minus tolerance of 3 inches over length of casing.
2. In such a manner as not to disrupt or damage gas service.
3. Casings rejected due to misalignment or other failures to conform to Specifications shall be abandoned in place and filled with concrete grout. Casing pipe shall not be recovered for reuse.

3.02 CASING SPACERS:

A. Furnish casing spacers for pipe alignment guides as indicated for all carrier pipe to be installed in casing.

1. Minimum spacing between casing spacers shall be 10 feet or every pipe joint, whichever is the lesser.
2. Size to fit outside diameter of carrier pipe and inside diameter of casing pipe.

B. Provide the following:

1. Stainless steel casing spacers with plastic runners, Cascade Waterworks Style CCS or Engineer-approved equal.

3.03 END SEALS:

A. Install end seals as indicated and as follows:

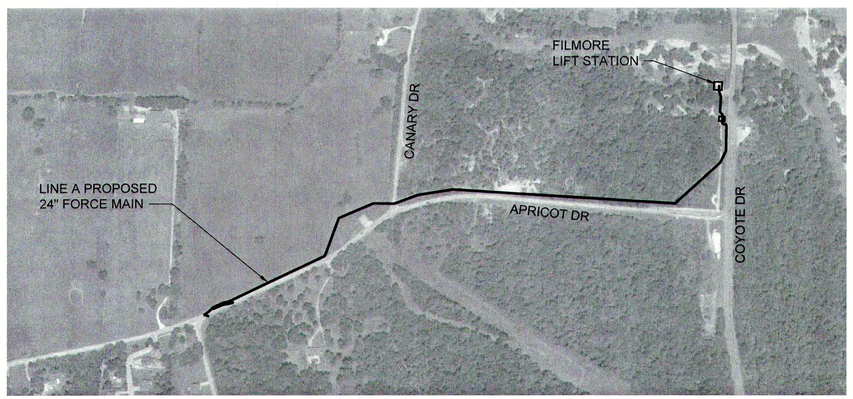
1. Neoprene end seals with stainless steel hose clamps, PSI Model C or Engineer-approved equal.
2. After inside of casing has been thoroughly cleaned and approved by Engineer.
3. After carrier pipe has been permanently placed inside casing, tested, and approved.

END OF SECTION 330524

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN



CIVIL DRAWINGS

DWG. NO.	TITLE
C001	GENERAL NOTES AND LEGEND
C002	CONTROL POINT LAYOUT MAP
C003	PLAN AND PROFILE BOL STA 0+00 TO STA 3+00
C004	PLAN AND PROFILE STA 3+00 TO STA 8+00
C005	PLAN AND PROFILE STA 8+00 TO STA 13+00
C006	PLAN AND PROFILE STA 13+00 TO STA 18+00
C007	PLAN AND PROFILE STA 18+00 TO STA 23+00
C008	PLAN AND PROFILE STA 23+00 TO STA 28+00
C009	PLAN AND PROFILE STA 28+00 TO STA 31+00
C010	PLAN AND PROFILE STA 31+00 TO STA 36+00
C011	PLAN AND PROFILE STA 36+00 TO EOL STA 38+32.23
C012	CIVIL DETAILS I
C013	CIVIL DETAILS II
C014	CIVIL DETAILS III
1 C015	ACCESS DRIVE PLAN AND DETAILS

STRUCTURAL DRAWINGS

DWG. NO.	TITLE
S001	GENERAL NOTES AND LEGEND
S002	CROSSOVER VALVE VAULT
S003	PLAN AND SECTIONS

REFERENCE DRAWINGS

DRAWING TITLE
CIVIL REFERENCE DRAWING SHEET 1 OF 3
CIVIL REFERENCE DRAWING SHEET 2 OF 3
CIVIL REFERENCE DRAWING SHEET 3 OF 3

AUGUST 2019

STATE OF MISSOURI
WILLIAM M. NASH
NUMBER PE-2003001078
PROFESSIONAL ENGINEER
8/16/19

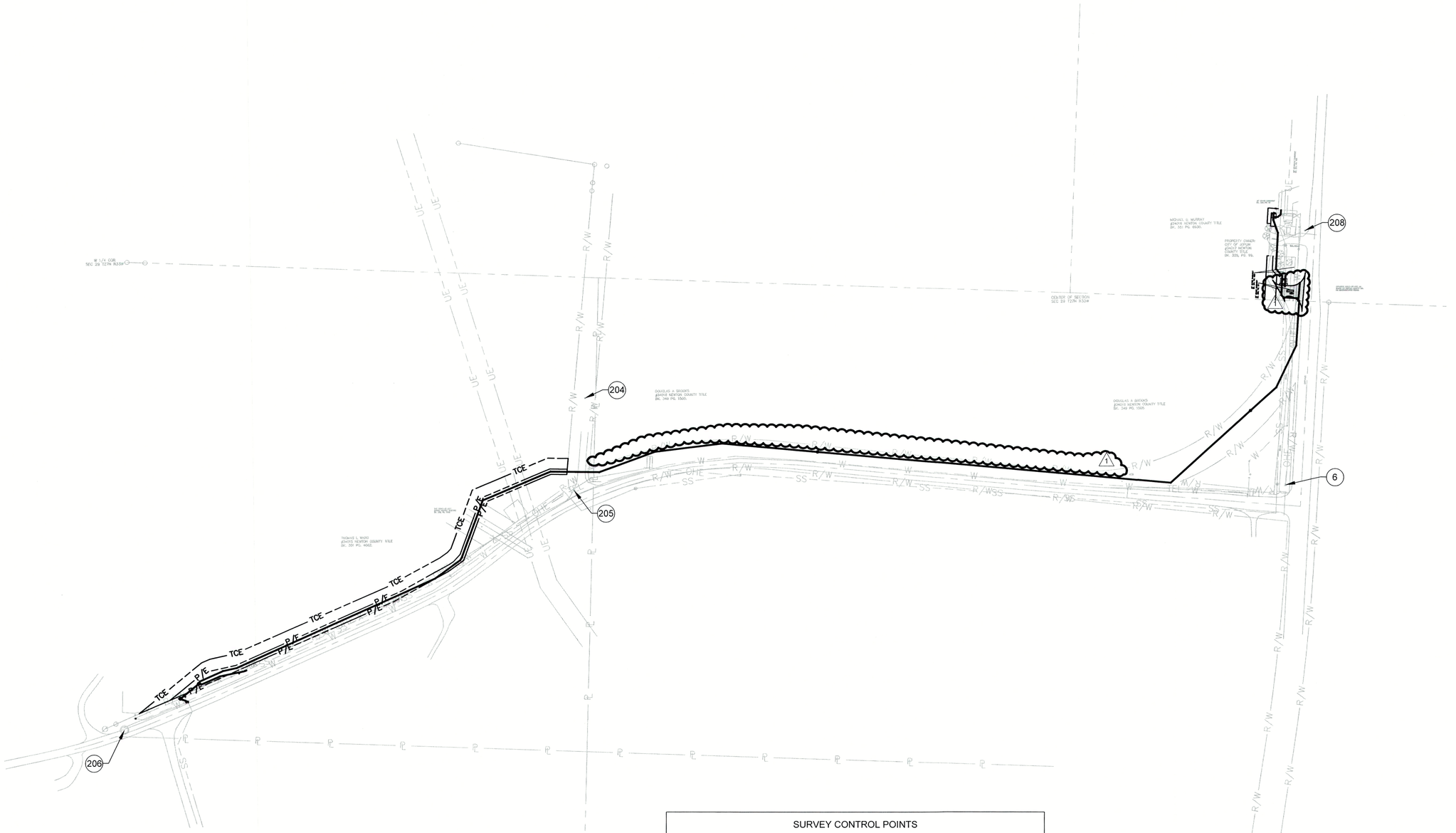
WILLIAM M. NASH
MECHANICAL
PE 2003001078

no.	date	by	ckd	description
0	8/02/19	SNW	JWH	ISSUED FOR BID
1	8/15/19	IWC	JLG	ADDENDUM NO. 1

BURNS McDONNELL

9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
LICENSEE NO. 000165

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SURVEY CONTROL POINTS				
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
6	315206.76	2771782.12	895.04	MON NE006 BENCHMARK
204	315447.74	2769824.05	892.03	CONTROL POINT-PK NAIL
205	315190.68	2769794.58	903.99	CONTROL POINT-PK NAIL
206	314522.35	2768539.03	915.14	CONTROL POINT-PK NAIL
208	315914.84	2771834.40	879.70	CONTROL POINT-60D NAIL

SURVEYOR CONTACT INFORMATION

ALLGEIER, MARTIN AND ASSOCIATES. INC.
P.O. BOX 2627
JOPLIN MO., 64803-2627
PHONE: 417-680-7200

STATE OF MISSOURI
WILLIAM M. NASH
NUMBER PE-2003001078
PROFESSIONAL ENGINEER
8/16/19

WILLIAM M. NASH
MECHANICAL
PE 2003001078

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BURNS McDONNELL
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KANSAS CITY, MO 64114
816-333-9400
LICENSEE NO. 000165

date	detailed
NOVEMBER 11, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN
CONTROL POINT LAYOUT MAP

project	contract
105643	

drawing **C002** – rev. **1**

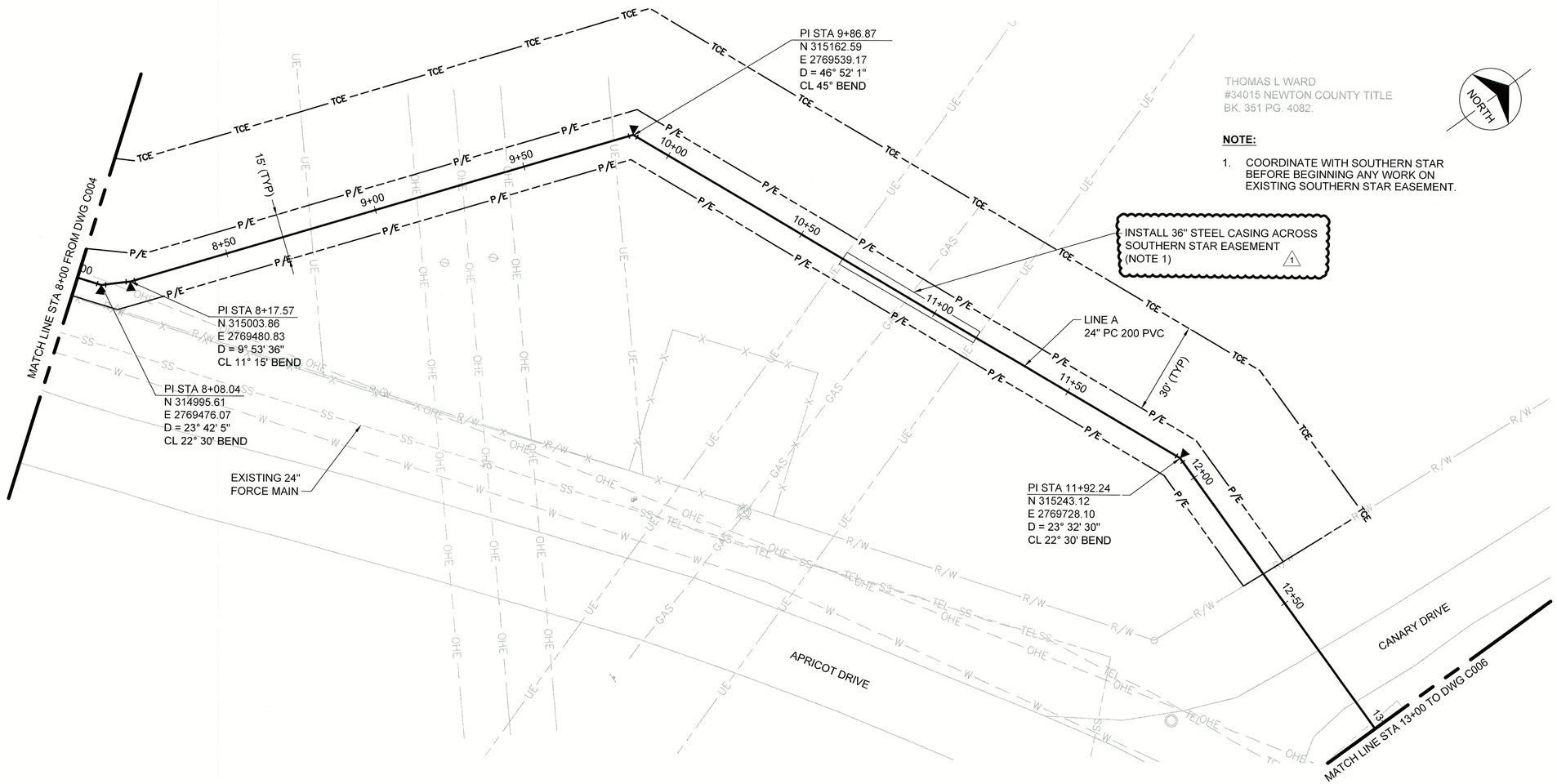
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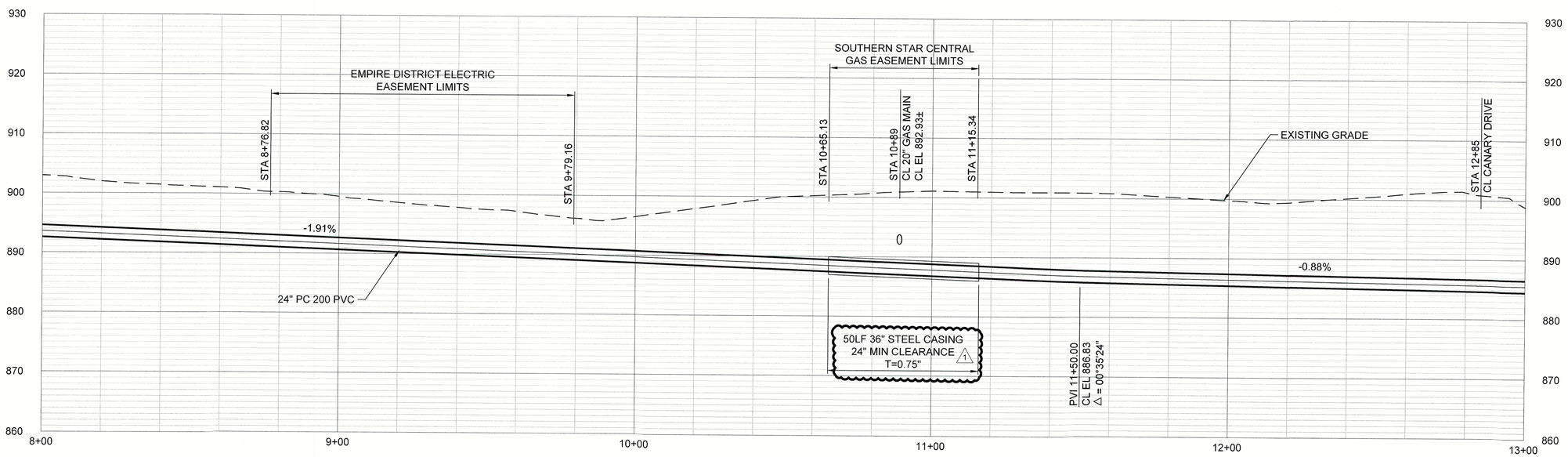
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Inches
Scale For Microfilming

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no.	date	by	ckd	description
0	8/02/19	SNW	JWH	ISSUED FOR BID
1	8/15/19	IWC	JLG	ADDENDUM NO. 1

STATE OF MISSOURI
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8/16/19

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MECHANICAL
PE 2003001078

BURNS McDONNELL
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LICENSEE NO. 000165

date	detailed
JUNE 15, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN
PLAN AND PROFILE

STA 8+00 TO STA 13+00

project	contract
105643	

drawing **C005** – rev. **1**

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Millimeters
Inches

no.	date	by	ckd	description
0	8/02/19	SNW	JWH	ISSUED FOR BID
1	8/15/19	IWC	JLG	ADDENDUM NO. 1

DOUGLAS A BROOKS
#34018 NEWTON COUNTY TITLE
BK. 349 PG. 1505

NORTH

MATCH LINE STA 13+00 FROM DWG C005

PI STA 13+28.48
N 315241.91
E 2769864.33
D = 21° 20' 17"
CL 22° 30' BEND

PI STA 14+93.59
N 315298.67
E 2770019.38
D = 12° 32' 59"
CL 11° 15' BEND

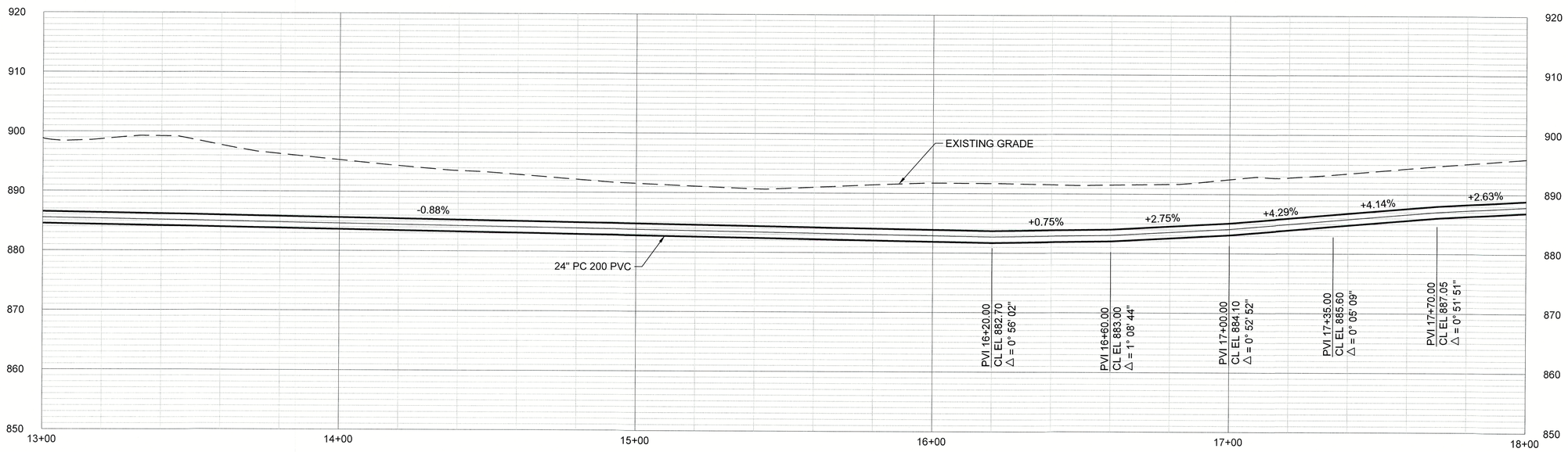
LINE A
24" PC 200 PVC

PI STA 16+82.96
N 315321.83
E 2770207.33
D = 12° 40' 16"
CL 11° 15' BEND

MATCH LINE STA 18+00 TO DWG C007

EXISTING WATER MAIN

APRICOT DRIVE



STATE OF MISSOURI
WILLIAM M. NASH
NUMBER PE-2003001078
PROFESSIONAL ENGINEER
8/16/19

WILLIAM M. NASH
MECHANICAL
PE 2003001078

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KANSAS CITY, MO 64114
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date	detailed
JUNE 15, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN
PLAN AND PROFILE

STA 13+00 TO STA 18+00

project	contract
105643	

drawing **C006** rev. **1**

sheet of sheets

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Millimeters
Inches
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DOUGLAS A BROOKS
#34018 NEWTON COUNTY TITLE
BK. 349 PG. 1505

NORTH

MATCH LINE STA 18+00 FROM DWG C006

MATCH LINE STA 23+00 TO DWG C008

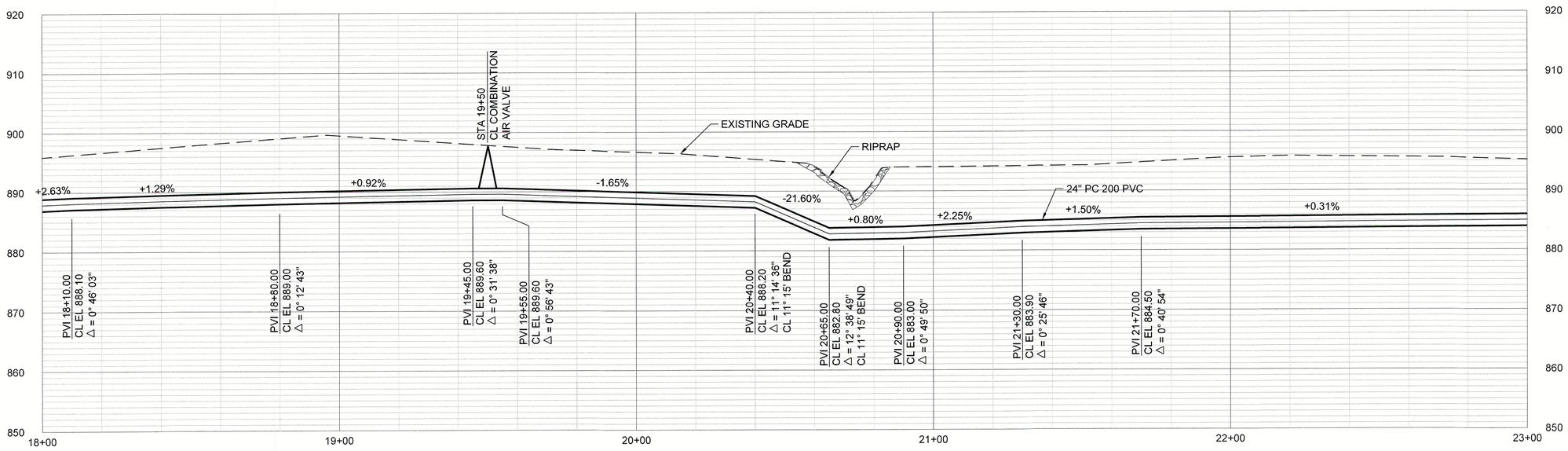
STA 19+50.00
N 315298.64
E 2770473.36
CL COMBINATION
AIR VALVE

LINE A
24" PC 200 PVC

EXISTING
WATER MAIN

APRICOT DRIVE

INSTALL 32 SY MODOT TYPE 3 ROCK DITCH LINER RIPRAP AT MAXIMUM 2:1 SIDE SLOPE, BEGINNING AT 36" RCP CULVERT OUTLET TO 5' BEYOND FORCE MAIN, SEE DETAIL 5 ON C014



no.	date	by	ckd	description
0	8/02/19	SNW	JWH	ISSUED FOR BID
1	8/15/19	IWC	JLG	ADDENDUM NO. 1

STATE OF MISSOURI
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8/16/19

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date	detailed
JUNE 15, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN
PLAN AND PROFILE

STA 18+00 TO STA 23+00

project	contract
105643	

drawing **C007** – rev. **1**

sheet of sheets

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Scale For Microfilming
Millimeters
Inches

DOUGLAS A BROOKS
#34018 NEWTON COUNTY TITLE
BK. 349 PG. 1505

NORTH

MATCH LINE STA 23+00 FROM DWG C007

MATCH LINE STA 28+00 TO DWG C009

LINE A
24" PC 200 PVC

23+00 23+50 24+00 24+50 25+00 25+50 26+00 26+50 27+00 27+50 28+00

R/W

W

SS

EXISTING
WATER MAIN

APRICOT DRIVE

EXISTING 24"
FORCE MAIN

EXISTING GRADE

+0.31%

+1.22%

24" PC 200 PVC

PVI 27+20.00
CL EL 886.20
△ = 0° 31' 17"

920 910 900 890 880 870 860 850

23+00 24+00 25+00 26+00 27+00 28+00

no.	date	by	ckd	description
0	8/02/19	SNW	JWH	ISSUED FOR BID
1	8/15/19	IWC	JLG	ADDENDUM NO. 1

STATE OF MISSOURI
WILLIAM M. NASH
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PROFESSIONAL ENGINEER
8/16/19

WILLIAM M. NASH
MECHANICAL
PE 2003001078

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date	detailed
JUNE 15, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN
PLAN AND PROFILE

STA 23+00 TO STA 28+00

project	contract
105643	

drawing **C008** – rev. **1**

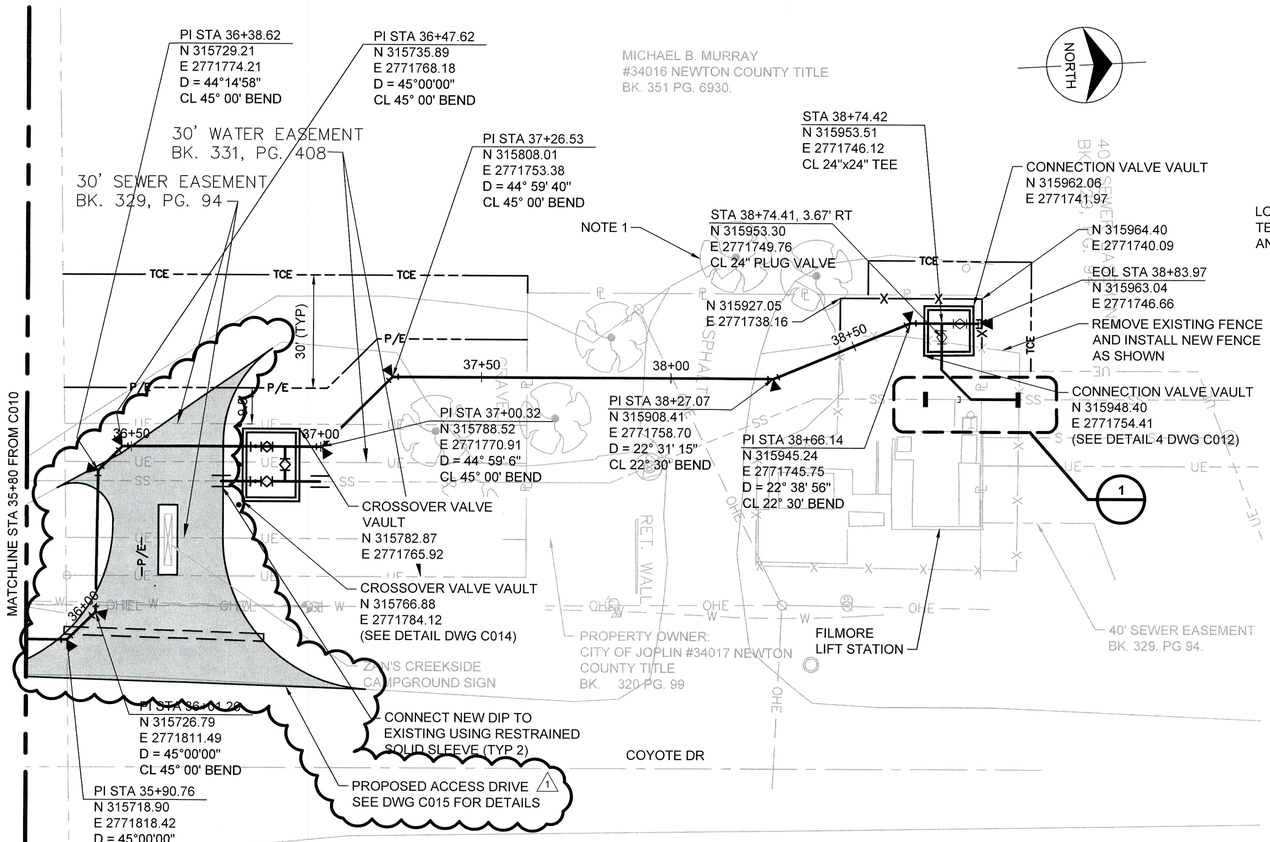
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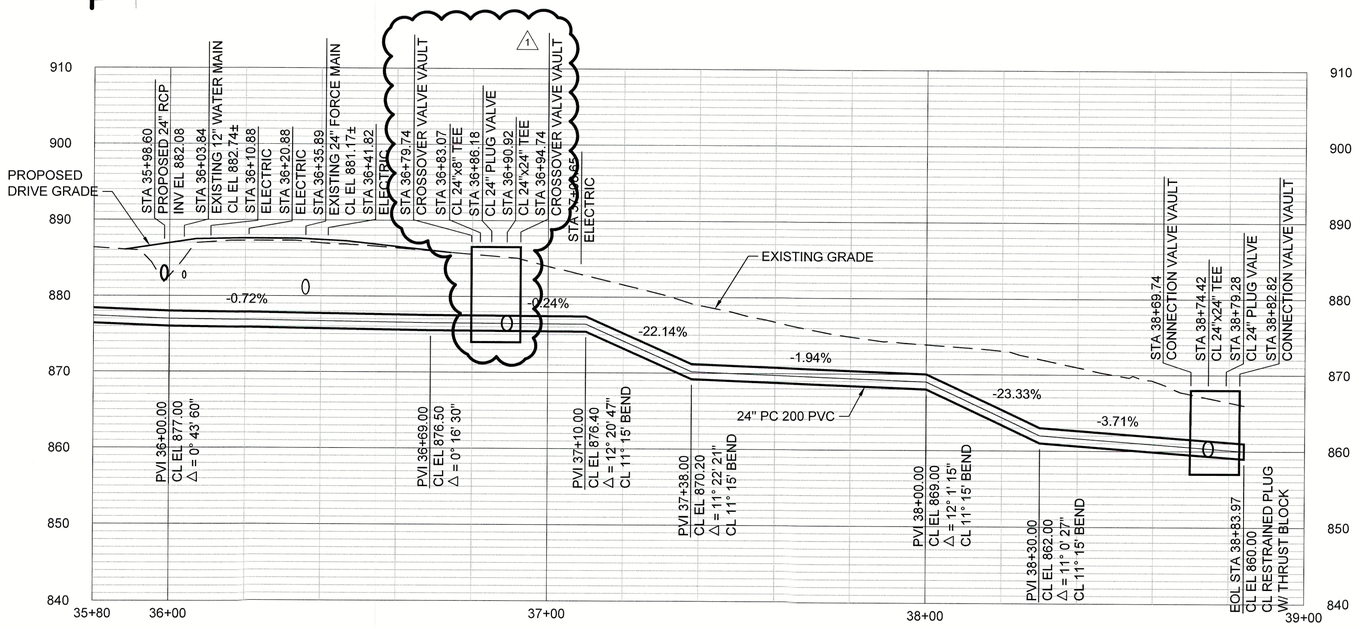
file 105643_FORCE MAIN.DWG

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Scale For Microfilming
Millimeters
Inches

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NOTES:

1. CONTRACTOR SHALL SAVE ALL TREES FROM DAMAGE DUE TO THEIR ACTIVITIES.
2. CONTRACTOR SHALL POTHOLE EXISTING 24" FORCE MAIN AT CROSSOVER CONNECTION POINT TO CONFIRM ELEVATION. REPORT ELEVATION TO ENGINEER IF IT VARIES SIGNIFICANTLY FROM THE CROSSOVER CENTERLINE ELEVATION SHOWN (~876.5').

no.	date	by	ckd	description
0	8/02/19	SNW	JWH	ISSUED FOR BID
1	8/15/19	IWC	JLG	ADDENDUM NO. 1

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
LICENSEE NO. 000165

date	detailed
JUNE 15, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN

PLAN AND PROFILE

STA 35+80 TO EOL STA 38+83.97

project	contract
105643	

drawing C011 – rev. 1

sheet of sheets

file 105643_FORCE MAIN.DWG

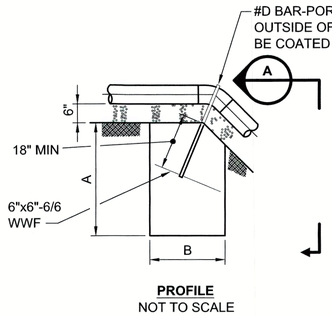
STATE OF MISSOURI
WILLIAM M. NASH
NUMBER PE-2003001078
PROFESSIONAL ENGINEER
8/16/19

WILLIAM M. NASH
MECHANICAL
PE 2003001078

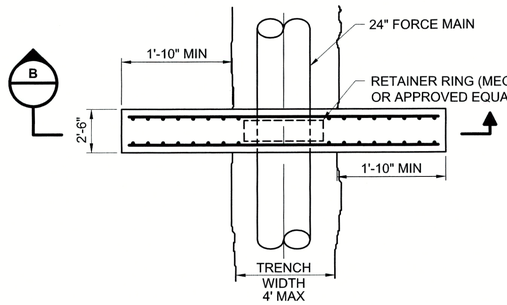
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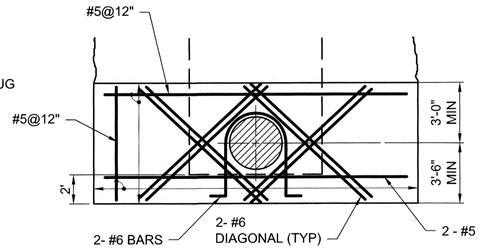
Scale For Microfilming: Millimeters / Inches



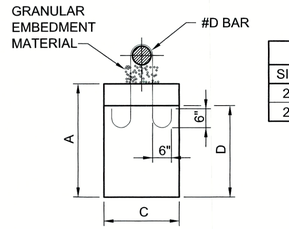
PROFILE
NOT TO SCALE



PLAN
NOT TO SCALE



SECTION B
NOT TO SCALE

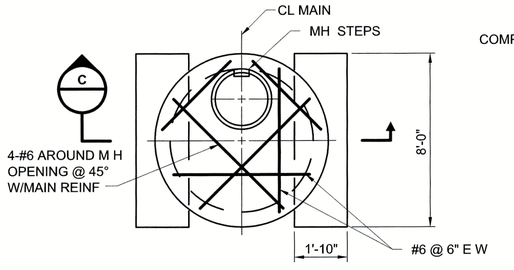


SECTION A
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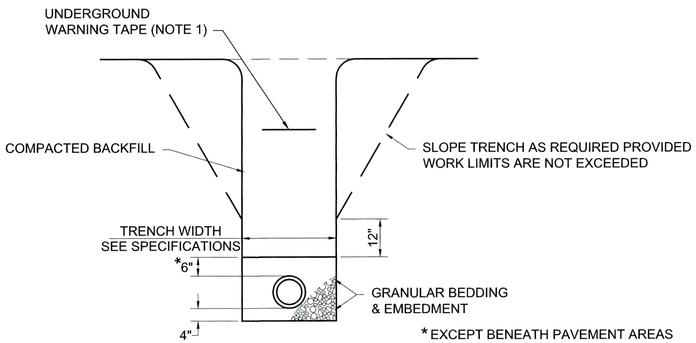
GRAVITY BLOCK SCHEDULE					
SIZE	FITTING	A	B	C	D
24"	22.5°	6'	6'	5.5'	#6
24"	11.25°	5'	5'	4'	#6

DETAIL 1
GRAVITY BLOCK
NOT TO SCALE

DETAIL 2
STRADDLE BLOCK
NOT TO SCALE



PLAN
NOT TO SCALE

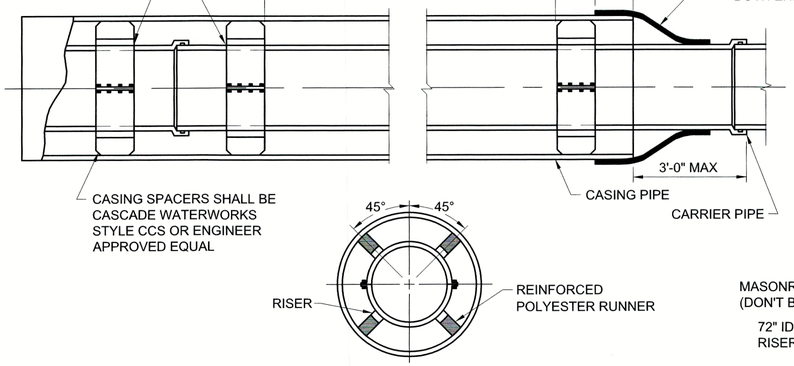


*EXCEPT BENEATH PAVEMENT AREAS WHERE THIS DIMENSION IS 12"

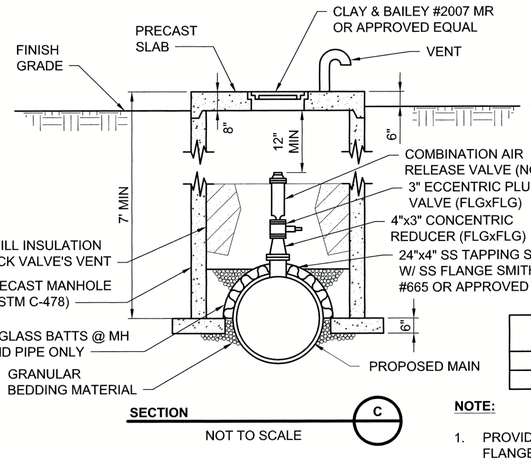
NOTE:

1. PROVIDE 3" WIDE APWA COMPLIANT WARNING TAPE. TAPE SHALL READ "CAUTION BURIED SEWER LINE BELOW." INSTALL ACCORDING TO MANUFACTURER'S RECOMMENDATION.

DETAIL 5
TRENCH
NOT TO SCALE



DETAIL 3
CASING PIPE AND END SEAL
NOT TO SCALE



SECTION C
NOT TO SCALE

STATION	COMBINATION ARV SIZE (IN)
19+50	3
32+40	3

NOTE:

1. PROVIDE ARI MODEL D-26[redacted] (1) FLANGED WASTEWATER COMBINATION AIR VALVE OR APPROVED EQUAL.

DETAIL 4
AIR RELEASE VALVE
NOT TO SCALE

no.	date	by	ckd	description
0	8/02/19	SNW	JWH	ISSUED FOR BID
1	8/15/19	IWC	JLG	ADDENDUM NO. 1

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
LICENSEE NO. 000165

date	detailed
JULY 3, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN

CIVIL DETAILS II

project	contract
105643	

drawing **C013** – rev. **1**

sheet of sheets

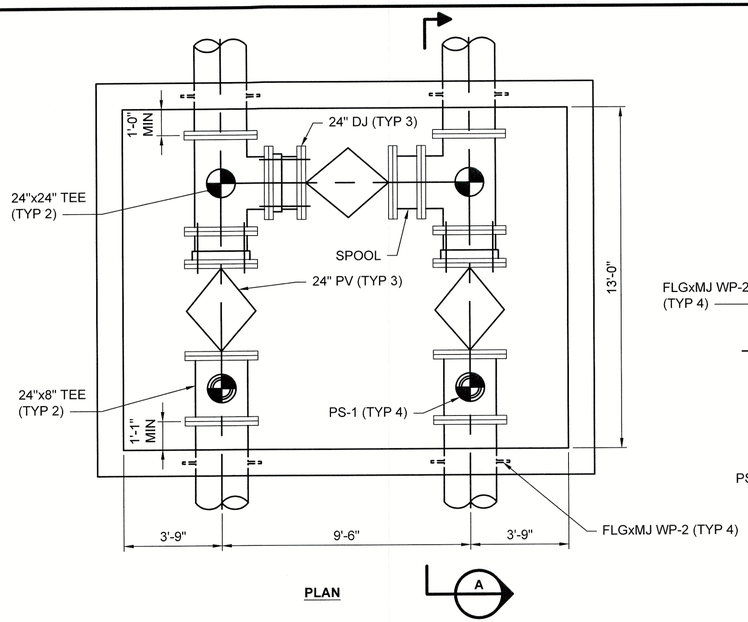
file 105643_C013-CIVIL DETAILS SHT 2.DWG

STATE OF MISSOURI
WILLIAM M. NASH
NUMBER PE-2003001078
PROFESSIONAL ENGINEER
8/16/19

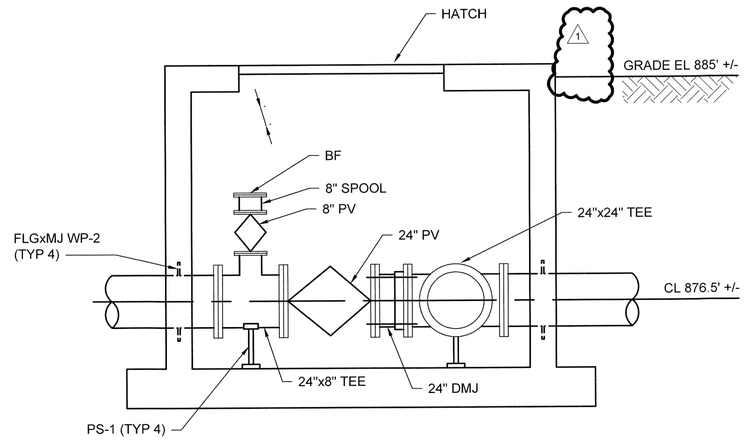
WILLIAM M. NASH
MECHANICAL
PE 2003001078

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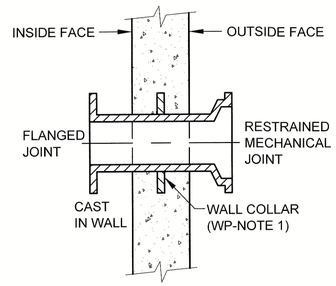
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PLAN



SECTION A
NOT TO SCALE



NOTE:

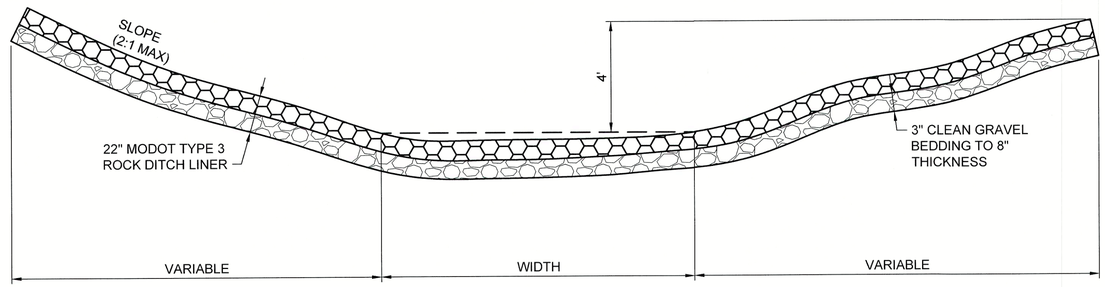
1. WALL COLLAR SHALL BE LOCATED IN CENTER OF WALL.

DETAIL 6
WP-2 NEW WALL
NOT TO SCALE

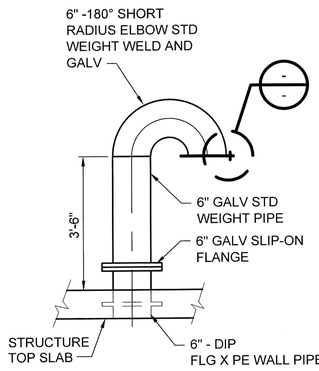
NOTES:

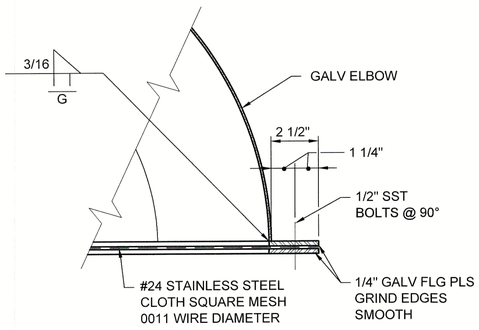
1. CONTRACTOR SHALL POTHOLE TO CONFIRM CENTERLINE ELEVATION OF EXISTING FORCE MAIN AT LOCATION OF PROPOSED 24"x24" TEE BEFORE BEGINNING CROSSOVER VALVE VAULT AND PIPING INSTALLATION. REPORT SIGNIFICANT VARIATION FROM CENTERLINE ELEVATION SHOWN TO ENGINEER. NEW 24" FORCE MAIN CENTERLINE ELEVATION AT PROPOSED 24"x24" TEE SHALL MATCH CENTERLINE ELEVATION OF NEW 24"x24" TEE ON EXISTING FORCE MAIN.
2. ALL PIPING INSIDE VAULT SHALL BE FLANGED DIP.
3. ANCHOR PIPING TO VAULT WALLS USING FLGxMJ WALL PIPE, (WP-2)
4. TRANSITION LINE A FORCE MAIN PIPE MATERIALS TO PVC OUTSIDE VAULT.

DETAIL 1
CROSSOVER VALVE VAULT
NOT TO SCALE



DETAIL 5
C007
TYPICAL DITCH LINER RIPRAP INSTALLATION
NOT TO SCALE





DETAIL 2A
NOT TO SCALE

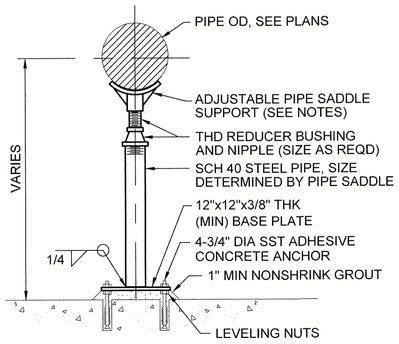
DETAIL 2
TOP MOUNT VENT PIPE
NOT TO SCALE

CAUTION

ENTRY PROHIBITED
WITHOUT PERMIT
TEST FOR
O_2 DEFICIENCY, H_2S AND
COMBUSTIBLE VAPORS

PROVIDE EMEDCO., INC. INDUSTRIAL CONFINED SPACE SIGN OR APPROVED EQUAL.

DETAIL 3
CONFINED SPACE SIGN
NOT TO SCALE



NOTES:

1. WHERE PIPE SUPPORT IS INDICATED TO BE LOCATED UNDER VALVE, PROVIDE ADJUSTABLE PLATE SUPPORT IN LIEU OF SADDLE SUPPORT.
2. COAT PIPE SYSTEM USING SYSTEM SPECIFIED IN SECTION 099000.

DETAIL 4
PIPE SUPPORT PS-1
NOT TO SCALE

no.	date	by	ckd	description
0	8/02/19	SNW	JWH	ISSUED FOR BID
1	8/15/19	IWC	JLG	ADDENDUM NO. 1

BURNS McDONNELL
9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
LICENSEE NO. 000165

date	detailed
JULY 3, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN

CIVIL DETAILS III

project	contract
105643	

drawing **C014** – rev. **1**

sheet of sheets

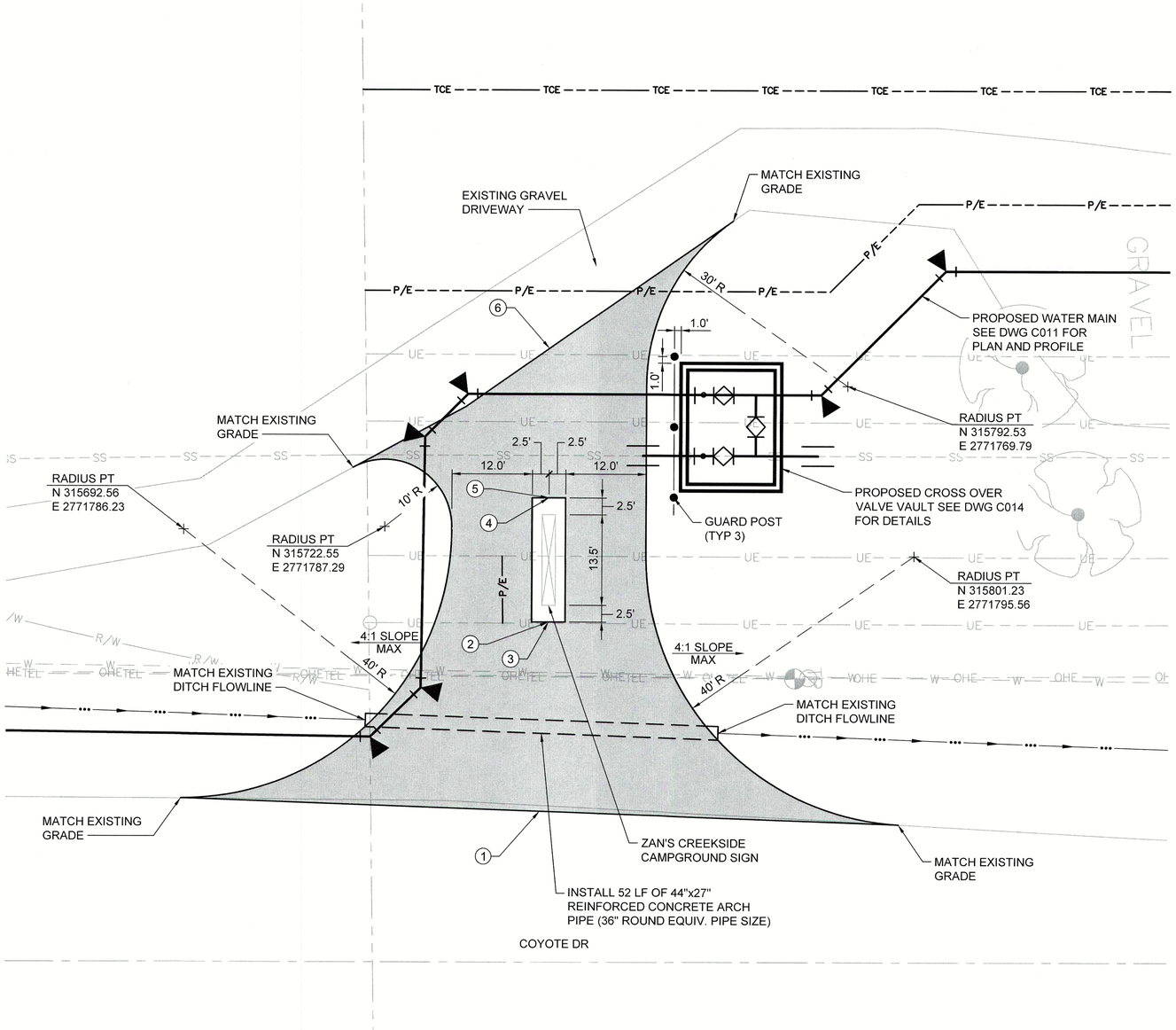
file 105643_C014-CIVIL DETAILS SHT 3.DWG

STATE OF MISSOURI
WILLIAM M. NASH
NUMBER PE-2003001078
PROFESSIONAL ENGINEER
8/16/19

WILLIAM M. NASH
MECHANICAL
PE 2003001078

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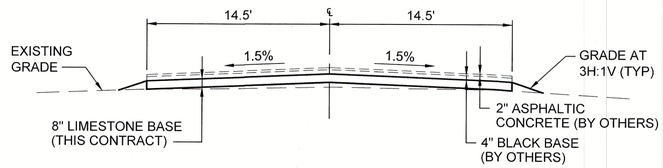


ACCESS DRIVE PLAN

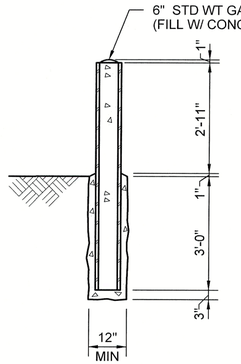
0 10' 20'

SCALE IN FEET

NORTH



TYPICAL SECTION ACCESS DRIVE
NOT TO SCALE



GUARD POST
NOT TO SCALE

CONTROL POINTS				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	315743.62	2771830.75	884.5 ±	EX. GRADE = FINAL GRADE
2	315746.29	2771802.68	886.5 ±	EX. GRADE
3	315746.29	2771802.68	885.0 ±	FINAL GRADE
4	315747.24	2771784.21	887.0 ±	EX. GRADE
5	315747.24	2771784.21	886.0 ±	FINAL GRADE
6	315748.37	2771762.01	886.0 ±	EX. GRADE = FINAL GRADE

no.	date	by	ckd	description
0	8/15/19	DMH	JLG	ADDENDUM NO. 1

STATE OF MISSOURI
JASON LEE GARDER
NUMBER PE-2016034014
PROFESSIONAL ENGINEER

8/16/2019

JASON LEE GARDER
CIVIL
PE 2016034014

BURNS McDONNELL

9400 WARD PARKWAY
KANSAS CITY, MO 64114
816-333-9400
LICENSEE NO. 000165

date	detailed
JUNE 15, 2018	B. FIFIELD
designed	checked
S. WILSON	J. HEIDRICK

CITY OF JOPLIN MISSOURI

JASPER COUNTY, MISSOURI

FILMORE BRIDGE PARALLEL FORCE MAIN

ACCESS DRIVE PLAN AND DETAILS

project	contract
105643	

drawing **C015** rev. **0**

sheet of sheets

file 105643_FORCE MAIN.DWG

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Scale For Microfilming: Millimeters / Inches