Precast Concrete Box Culvert
(PCBC-001)

Bid Opening: February 21st at 2:00 PM



PUBLIC WORKS DEPARTMENT
602 S. MAIN STREET, JOPLIN MISSOURI 64801
Phone: 417-624-0820 Ext. 1530

General Bid Information

The City of Joplin is accepting sealed bids for a precast concrete box culvert.

Bid Packages can be downloaded from City of Joplin's web site using the following link: https://www.joplinmo.org/bids.aspx. regarding information, please contact Coty Pringle at 417-624-0820 ext. 1557 or e-mail at cpringle@joplinmo.org.

Bidder Instructions

Submitted bids must be enclosed in a sealed envelope marked **"Precast Concrete Box Culvert PCB-001"** with the name of the bidder and delivered to City of Joplin Public Works, Attn: Daniel Johnson Director of Public Works, 602 South Main Street, Joplin, Mo 64801, no later than **2 pm local time, February 21, 2023**. The bids will be opened immediately thereafter and read aloud. Bids received after the time due will not be considered and will be returned to the bidder un-opened.

Bids are to be submitted on the Bid Forms included within the bid package. Bidder must provide the Unit Bid Price, Extended Bid Price and Total Bid Price on the Bid Schedule Form. In case of discrepancy on the Bid Schedule Form, the Unit Bid Price governs.

Any bid questions must be received by 5 pm local time, February 15, 2020.

Any modifications to the Invitation to Bid package will be an Addendum and posted to the City of Joplin's website by 5 pm, February 17, 2023. It is the responsibility of the bidder to verify if an addendum has been issued. **Bidder shall acknowledge Addenda in the Bid and Addenda Acknowledgment section of the Bid Form.**

General Conditions

The successful bidder will be issued a Purchase Order.

Supplier see Attachment "B" aerial for project delivery location in Mineral Park Joplin Missouri.

Awarding of Bid

Award may be made to the lowest responsive, responsible bidder meeting applicable county and state requirements. In reviewing the bids received, the City of Joplin reserves the right to reject, for any reason whatsoever, any and all bids, and to waive any informality or irregularity in a bid. The City of Joplin reserves the right to accept the bid that provides the best value to the City in the City's sole discretion. The City reserves the right to make a determination in the City's sole discretion as to the sufficiency of qualifications of any bidder. The submission of a bid does not in any way commit the City of Joplin to enter into an agreement or contract with that bidder. It is anticipated that award of the contract will be made within (1) weeks of the bid opening. All bidders will be notified of the Director of Public Works decision. Within one week of award, any required submittals will be due.

Requirements of Successful Bidder

- Manufacturer's quality control / quality assurance methods and procedures.
- Manufacturer's standard concrete testing protocol.
- Manufacturer's standard joint detail between adjacent box segments.

Additional Terms and Scope of Services

1. The bidder shall meet the specifications as shown on Attachment "A"

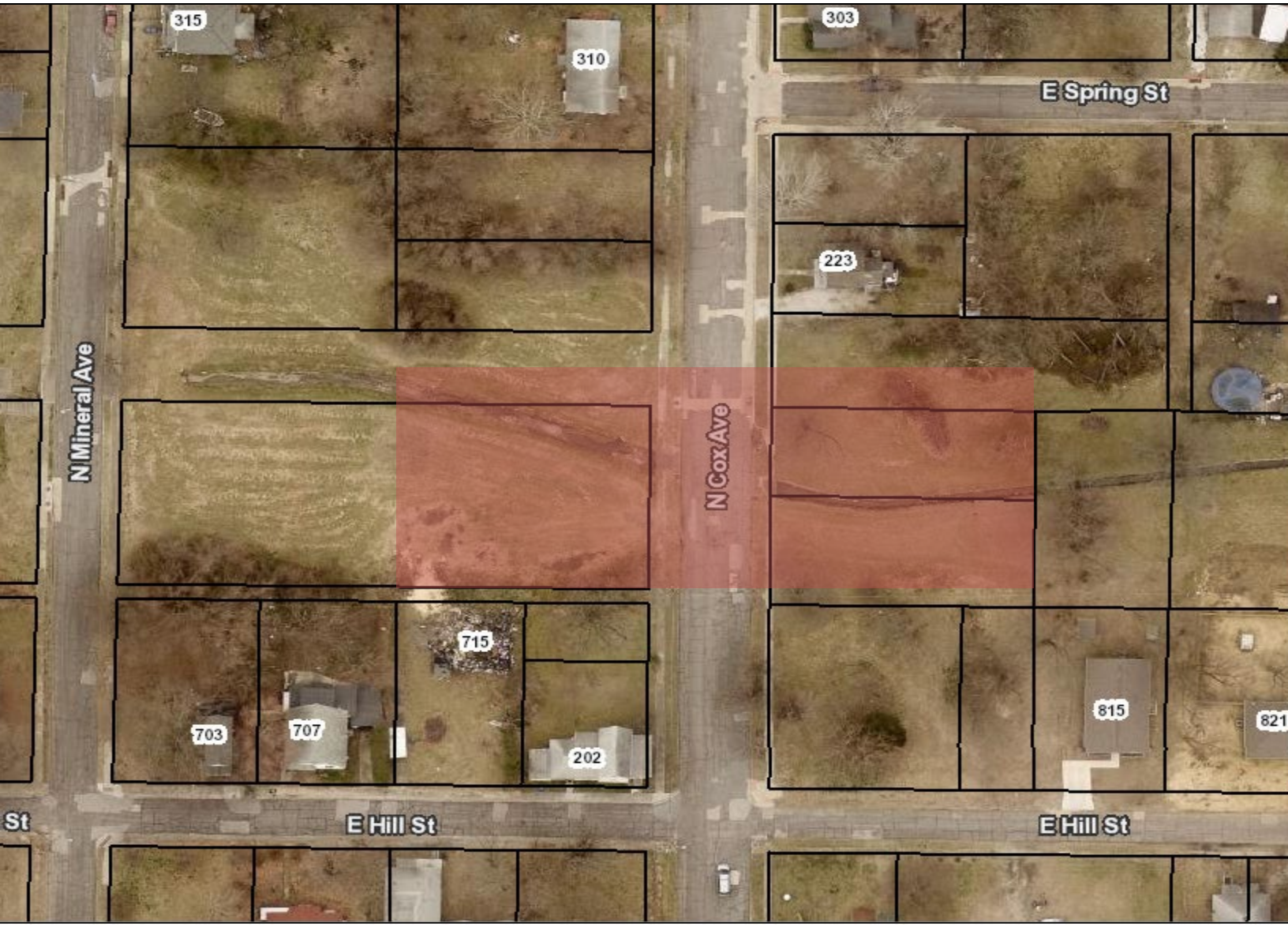
2. Contractor shall deliver the precast concrete box culvert sections to the project site located in Mineral Park Joplin, Mo. See Attachment "B" for location.

3. The concrete aprons, headwall and wing walls <u>are not</u> part of this bid package.

Attachment "A" – Specifications for Precast Concrete Box Culvert

1. Manufacturer shall provide the Precast Box Culvert in accordance with the following criteria:
    a. Traffic Loading: AASHTO HL 93
    b. Dead Loading: Per plans see attachment "C"
    c. Design Standard: ASTM C-1577-17: AASHTO - LRFD
    d. Inside dimensions of the culvert shall be consistent with sections shown on Attachment "C"
    e. Exterior dimensions (based upon wall, floor, & lid thickness) shall be determined by supplier. Section thicknesses shown on the drawings are shown for illustrative purposes only.
    f. Minimum clear cover on reinforcement shall be 1½ inches on all surfaces except the top deck, which shall have 2 inches minimum clear cover.
    g. Epoxy coated reinforcement is not desired.
2. Manufacturer shall provide lifting anchors in the precast components and lifting instructions to facilitate installation of the structure.
3. Manufacturer is only responsible for precast box culvert. City will provide cast in place concrete entrance and discharge slabs, wing wall blocks, headwalls and guardrails.
4. Manufacturer shall determine the size of individual segments of the box culvert based on highway transport weight limit criteria. Segment width shown on the drawings can be adjusted.
5. see drawings for detail cast in place anchors for rebar extensions into City cast entrance and discharge slabs. City solicits manufacturer's recommendations regarding corrosion protection where rebar may be exposed to water at the juncture between the precast box and the field cast slabs.
6. Headwalls shall be cast directly against the mating surface of the end box segments.
7. Concrete clear cover on reinforcing underneath the keyway cast in the end box segments shall not be less than ACI minimum values.
8. Manufacturer shall provide City with copies of all materials testing results generated during the manufacturing process.
9. Manufacturer shall provide joint sealing materials in conformance with the approved shop drawings.
10. Manufacturer's price shall include delivery of the precast box culvert segments to the job site. Manufacturer shall provide a sufficient trucking capacity to deliver all precast components to the site, delivery date to be coordinated with city contractor.
11. Precast concrete box culvert sections shall be new.

Attachment "B" – Delivery Location for Precast Concrete Box Culvert



Note:
Numbers shown on attached map indicate house numbers for reference.

BIDDER INFORMATION
Precast Concrete Box Culvert (PCBC-001)

Bidder: _____

Address: _____

_____

_____

Phone Number: _____

E-Mail Address : _____

Representative's Signature _____

Printed Name of Signer _____

Title _____

Date _____

Exceptions or Comments

_____

_____

_____

_____

BID SCHEDULE FORM
Precast Concrete Box Culvert (PCBC-001)

Bid Item Description	**Bid Price**
Precast concrete box culvert: 4-sided box, single cell, inside dimensions of 9 feet wide by 3feet high and flowline length of 72 feet (x2) total length of 144 feet;	_____
Freight, FOB destination	_____
Total Bid Price	_____

*Bid price shall be FOB destination, which is located in Joplin, Mo. Mineral Park see Attachment "B" for location. Pricing is to be free of sales tax.

Specific warranties included in Bid Price: _____

_____

_____

Estimated delivery time after receipt of purchase: _____

BID AND ADDENDA ACKNOWLEDGMENT
Precast Concrete Box Culvert (PCBC-001)

The undersigned, having carefully read and considered the Invitation to Bid for the City of Joplin Precast Concrete Box Culvert bid, does hereby offer to supply such services to the City of Joplin, Missouri in the manner described and subject to the Contract Documents.

The undersigned acknowledges receipt of addenda (if any). **The undersigned shall initial after the appropriate item(s):**

Acknowledgment of Addendum #1:
Acknowledgment of Addendum #2:
Acknowledgment of Addendum #3:

The undersigned further states that this bid is made and submitted in good faith and is not founded on, or in consequence of, any collusion, anticompetitive agreement or other type of anticompetitive activities between themselves and any other interested party, in restraint of free competition.

Bidder Business Name_____

Authorized Representative Signature_____

Authorized Representative Name & Title (print)

_____

Date _____

ATTACHMENT "C"

COX AVENUE BOX CULVERT
AND PAVED DITCH IMPROVEMENTS

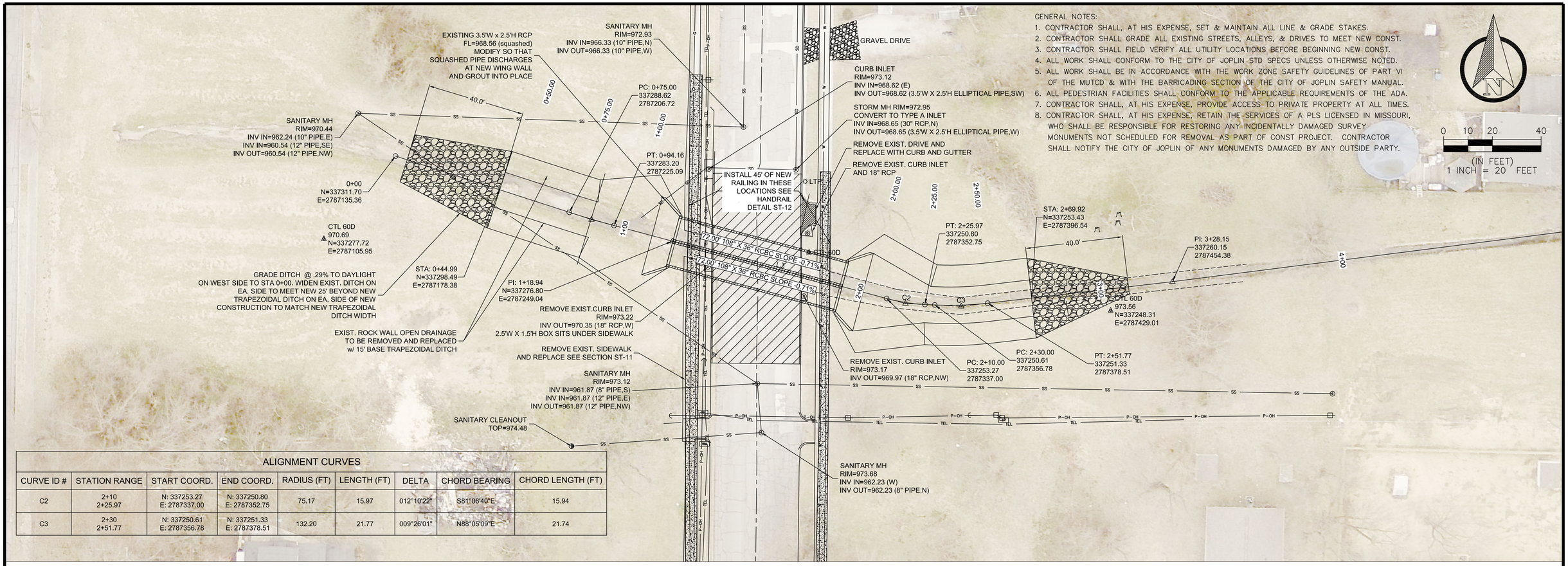


0 25 50 100
(IN FEET)
1 INCH = 50 FEET

Cox Ave Culvert.dwg

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP - CALL BEFORE YOU DIG!

CITY OF JOPLIN, MISSOURI PUBLIC WORKS DEPARTMENT DIVISION OF ENGINEERING	ADDRESS: 602 S MAIN ST 64801	REV DATE:	REVISION:	SVYD BY: OLSSON	ACAD DWG FILE & PATH NAME: STORM SEWER\COX AVENUE	DWN BY: PRINGLE	PROJECT COX AVENUE BOX CULVERT AND PAVED DITCH IMPROVEMENTS	PLAN NO: 8542
	PH NO: 417-624-0820 EXT 530	00/2023	PROJECT CHECK	PNT FILE: N/A.TXT		CKD BY: JOHNSON		SHEET 1 of 3
	FAX NO: 417-625-4738			SVY DATE: 10/2022	SCALE: 1" = 50'	APD BY: JOHNSON		
	E-MAIL: DJOHNSO1@JOPLINMO.ORG			ENGINEER: JOHNSON		DATE: 01/2023		



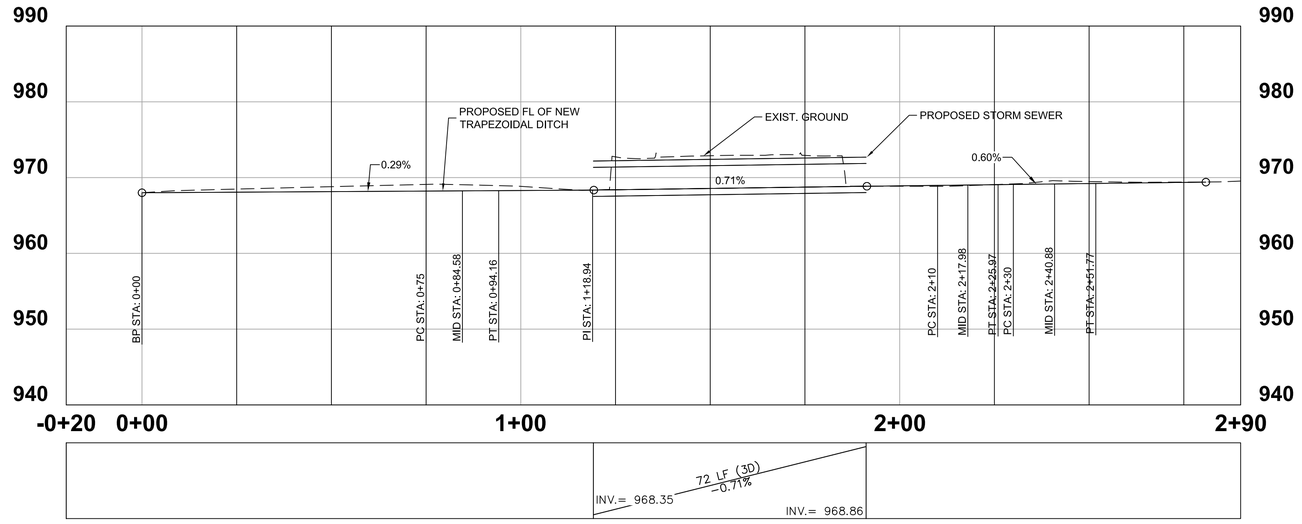
GENERAL NOTES:

1. CONTRACTOR SHALL, AT HIS EXPENSE, SET & MAINTAIN ALL LINE & GRADE STAKES.
2. CONTRACTOR SHALL GRADE ALL EXISTING STREETS, ALLEYS, & DRIVES TO MEET NEW CONST.
3. CONTRACTOR SHALL FIELD VERIFY ALL UTILITY LOCATIONS BEFORE BEGINNING NEW CONST.
4. ALL WORK SHALL CONFORM TO THE CITY OF JOPLIN STD SPECS UNLESS OTHERWISE NOTED.
5. ALL WORK SHALL BE IN ACCORDANCE WITH THE WORK ZONE SAFETY GUIDELINES OF PART VI OF THE MUTCD & WITH THE BARRICADING SECTION OF THE CITY OF JOPLIN SAFETY MANUAL.
6. ALL PEDESTRIAN FACILITIES SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE ADA.
7. CONTRACTOR SHALL, AT HIS EXPENSE, PROVIDE ACCESS TO PRIVATE PROPERTY AT ALL TIMES.
8. CONTRACTOR SHALL, AT HIS EXPENSE, RETAIN THE SERVICES OF A PLS LICENSED IN MISSOURI, WHO SHALL BE RESPONSIBLE FOR RESTORING ANY INCIDENTALLY DAMAGED SURVEY MONUMENTS NOT SCHEDULED FOR REMOVAL AS PART OF CONST PROJECT. CONTRACTOR SHALL NOTIFY THE CITY OF JOPLIN OF ANY MONUMENTS DAMAGED BY ANY OUTSIDE PARTY.

0 10 20 40
(IN FEET)
1 INCH = 20 FEET

ALIGNMENT CURVES

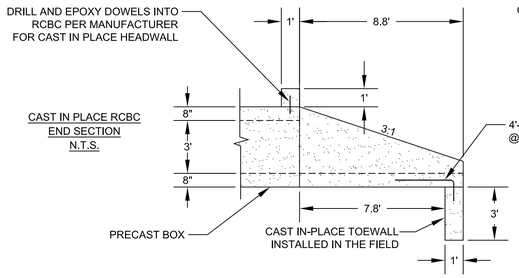
CURVE ID #	STATION RANGE	START COORD.	END COORD.	RADIUS (FT)	LENGTH (FT)	DELTA	CHORD BEARING	CHORD LENGTH (FT)
C2	2+10 2+25.97	N: 337253.27 E: 2787337.00	N: 337250.80 E: 2787352.75	75.17	15.97	012°10'22"	S81°06'40"E	15.94
C3	2+30 2+51.77	N: 337250.61 E: 2787356.78	N: 337251.33 E: 2787378.51	132.20	21.77	009°26'01"	N88°05'09"E	21.74



Cox Ave Culvert.dwg

MISSOURI ONE CALL SYSTEM, INC. 1-800-344-7483 STOP! CALL BEFORE YOU DIG!

CITY OF Joplin	CITY OF JOPLIN, MISSOURI PUBLIC WORKS DEPARTMENT DIVISION OF ENGINEERING	ADDRESS: 602 S MAIN ST 64801 PH NO: 417-624-0820 EXT 530 FAX NO: 417-625-4738 E-MAIL: DJOHNSO1@JOPLINMO.ORG	REV DATE: 00/2023	REVISION: PROJECT CHECK	SVYD BY: OLSSON PNT FILE: N/A.TXT SVY DATE: 10/2022 ENGINEER: JOHNSON	ACAD DWG FILE & PATH NAME: STORM SEWER\COX AVENUE SCALE: HORZ: 1" = 20' VERT: 1" = 10'	DWN BY: PRINGLE CKD BY: JOHNSON APD BY: JOHNSON DATE: 01/2023	PROJECT COX AVENUE BOX CULVERT AND PAVED DITCH IMPROVEMENTS	PLAN NO: 8542 SHEET 2 of 3



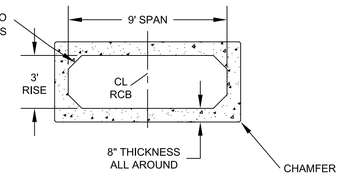
CAST IN PLACE RCBC
END SECTION
N.T.S.

CONC TO BE 5000 PSI

TYPICAL LAYING
LENGTH OF 6' JOINTS

REINFORCEMENT
VARIES AS TO
MANUFACTURER

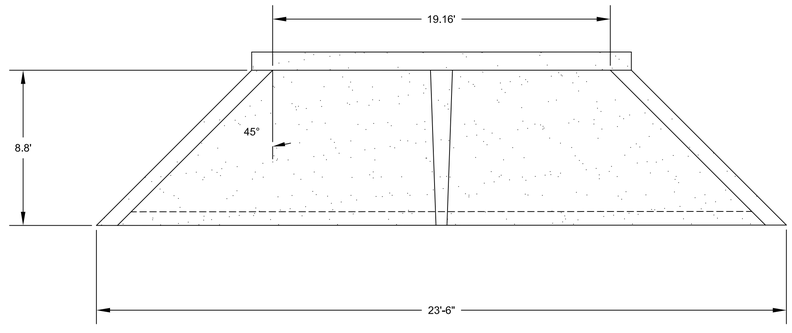
PRECAST RCB
TYPICAL SECTION
N.T.S.

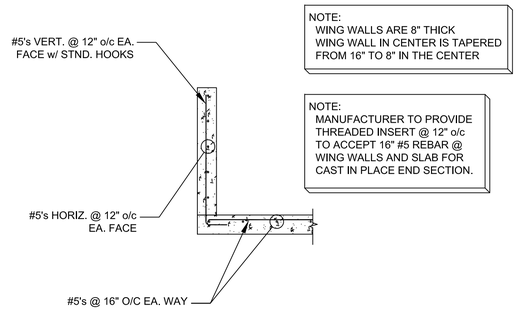


CONC TO BE 5000 PSI

JOINTS SHALL BE SEALED
WITH MORTAR, MASTIC,
OR FLEXIBLE BUTYL
RUBBER SEALANTS.

INSTALLATION &
BEDDING AS PER
MANUFACTURER'S
SPECIFICATIONS.

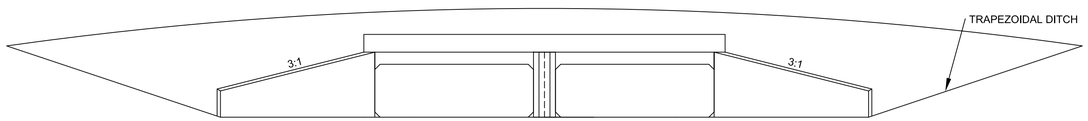




NOTE:
WING WALLS ARE 8" THICK
WING WALL IN CENTER IS TAPERED
FROM 16" TO 8" IN THE CENTER

NOTE:
MANUFACTURER TO PROVIDE
THREADED INSERT @ 12" o/c
TO ACCEPT 16" #5 REBAR @
WING WALLS AND SLAB FOR
CAST IN PLACE END SECTION.

WING WALL , SLAB, AND OPNG. REINFORCEMENT
TYPICAL SECTION
N.T.S.



Cox Ave Culvert.dwg

MISSOURI ONE CALL SYSTEM, INC
1-800-344-7483
STOP CALL BEFORE YOU DIG

CITY OF Joplin	CITY OF JOPLIN, MISSOURI PUBLIC WORKS DEPARTMENT DIVISION OF ENGINEERING	ADDRESS: 602 S MAIN ST 64801 PH NO: 417-624-0820 EXT 530 FAX NO: 417-625-4738 E-MAIL: DJOHNSO1@JOPLINMO.ORG	REV DATE: 00/2023	REVISION: PROJECT CHECK	SVYD BY: OLSSON PNT FILE: N/A.TXT SVY DATE: 10/2022 ENGINEER: JOHNSON	ACAD DWG FILE & PATH NAME: STORM SEWER\COX AVENUE SCALE: NTS	DWN BY: PRINGLE CKD BY: JOHNSON APD BY: JOHNSON DATE: 01/2023	PROJECT COX AVENUE BOX CULVERT AND PAVED DITCH IMPROVEMENTS	PLAN NO: 8542 SHEET 3 of 3