

## LEGAL NOTICE

Notice is hereby given that sealed bids will be received at the Office of the Board of County Commissioners of Henry County, Ohio, 1853 Oakwood Avenue, Napoleon, Ohio until Tuesday, March 7, 2023 at 9:30 A.M., at which time and place, bids will be opened and read for the furnishing of:

- a) ~~59.92~~ 70 L.F. of 20' Span x 10' Rise Four Sided Concrete Box ~~with 24.3 Degree Skew~~
- b) 77 L.F. of 20' Span x 10' Rise Four Sided Concrete Box
- c) 44.21 L.F. of 20' Span x 9' Rise Four Sided Concrete Box with 5.5 Degree Skew

with all appurtenances for use by the Henry County Highway Department.

All material shall be in accordance with the details and specifications for the same which are on file at the Office of the Henry County Engineer. The specifications, legal notice, and bid proposal will also be available on the Henry County Engineer's website [www.henrycountyengineer.com](http://www.henrycountyengineer.com) under the link "Bid Request Listing".

Bids must be submitted on the forms provided by the Engineer.

Bids may be hand delivered or mailed in a sealed envelope bearing the Bidder's name and address and marked "Sealed Bid for Concrete Box".

The said Board reserves the right to reject any or all bids.

The contract will be award to the lowest and best bidder.

No bid will be considered unless it be accompanied by a bond executed by a surety company authorized to do business in the State of Ohio or a certified check on a solvent bank; either in the amount of five (5%) percent of the bid to guarantee that if said bid is accepted, a contract will be entered into and the performance of it properly secured.

BY ORDER OF  
BOARD OF COUNTY COMMISSIONERS  
HENRY COUNTY, OHIO

By: Kristi Schultheis, Clerk

## Four Sided Concrete Box Specifications

### Box Sections

Shall conform to the State of Ohio, Department of Transportation Specifications 706.05 (Precast Reinforced Concrete Box Sections). All box sections shall conform to ASTM C 1577 as defined below:

- a. ~~59.92~~ 70 L.F. of 20' Span x 10' Rise Four Sided Concrete Box ~~with 24.3 Degree Skew~~ with 8 feet of cover.
- b. 77 L.F. of 20' Span x 10' Rise Four Sided Concrete Box with 1-3 feet of cover.
- c. 44.21 L.F. of 20' Span x 9' Rise Four Sided Concrete Box with 5.5 Degree Skew with 1-3 feet of cover.

### General

Bid price shall include the lifting holes and plugs for all pipe, and shall include sufficient quantities of joint filler (i.e. mastic) compound as required for the sizes and lengths of box sections specified. The price shall also include a load rating analysis for Ohio & AASHTO Vehicles (2F1, 3F1, 5C1, Type 3, Type 3-3 and Type 3S2), Specialized Hauling Vehicles (SU4/4F1, SU5, SU6 and SU7), and Emergency Vehicles (EV2 and EV3).

Bid price shall include delivery to the project site.

## PROPOSAL

<u>Quantities</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total Price</u>
59.92 <b>70</b> L.F.	20' Span x 10' Rise Box Sections with <del>24.3 Degree Skew</del> <b>No Skew</b>	\$_____	\$_____
77 L.F.	20' Span x 10' Rise Box Sections with No Skew	\$_____	\$_____
44.21 L.F.	20' Span x 9' Rise Box Sections with 5.5 Degree Skew	\$_____	\$_____
Total Amount of Bid			\$_____

Drawings are attached.

Accompanying this bid must be a bid bond executed by a Surety Company authorized to do business in the State of Ohio or a certified check on a solvent bank; either in the amount of 5% of the bid to guarantee that if said bid is accepted, a contract will be entered into and the performance of it properly secured.

The Board of County Commissioners reserves the right to reject any and all bids.

Date:\_\_\_\_\_

FIRM NAME:\_\_\_\_\_

By:\_\_\_\_\_

Title:\_\_\_\_\_

Address:\_\_\_\_\_

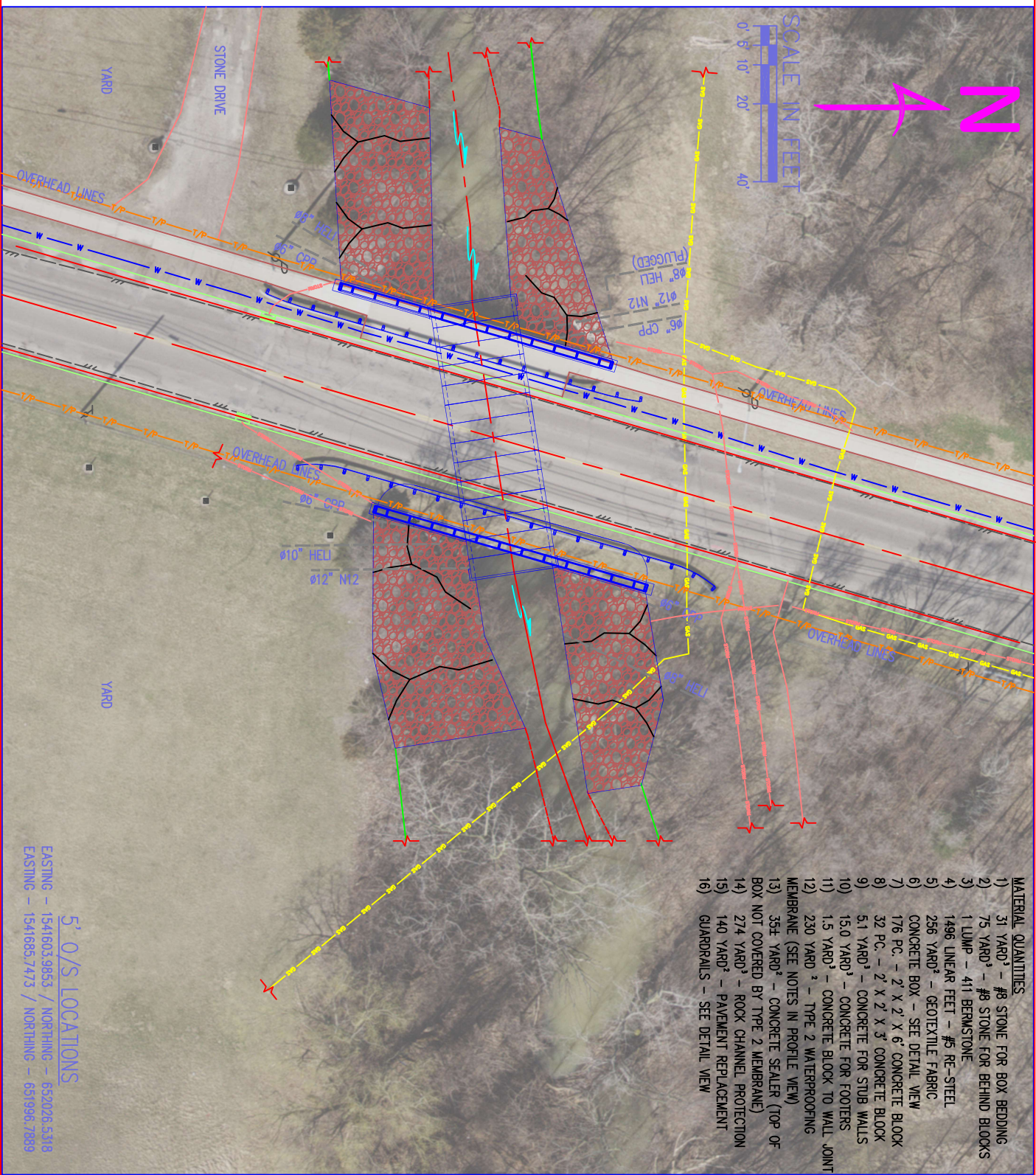
\_\_\_\_\_

Telephone Number: \_\_\_\_\_

Fax Number:\_\_\_\_\_

Email:\_\_\_\_\_



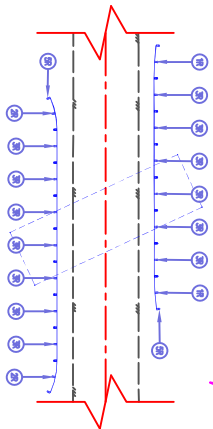


**NOTES:**

- TRENCH WALLS SHALL BE SLOPED AT A ONE & ONE HALF TO ONE RATIO (1-1/2-1) AT A POINT 4' ABOVE THE TRENCH BOTTOM, UNLESS PROTECTED FROM SLIPPAGE BY SHORING, TRENCH BOX, OR OTHER MEANS. NO EXCAVATION MATERIALS SHALL BE STOCKPILED WITHIN 2' OF THE TRENCH WALL.
- PLACE 12" WIDE TYPE 2 WATERPROOFING OVER ALL VERTICAL JOINTS TO BE COVERED BY SOL. PLACE TYPE 3 WATERPROOFING OVER TOP OF STRUCTURE & 2' OVER SIDES, OVERLAPPING VERTICAL JOINTS. PLACE CONCRETE SEALER ON DECK NOT COVERED BY TYPE 2 WATERPROOFING.
- BACKFILL W/ 411 BERM STONE TO SUB-GRADE UNDER ROADWAY, AND TO A MINIMUM OF THE SPRING LINE FOR THE REMAINING LENGTH OF PIPE. COMPACT BERM STONE W/ MECHANICAL TAMP IN 12" LIFTS, THOROUGHLY FLOODED W/ WATER.
- ALL AREAS THAT ARE BARE AND/OR HAVE TURF DAMAGED FROM CONSTRUCTION ACTIVITIES SHALL BE SEED & MULCHED. MULCHING MATERIALS SHALL BE KEPT IN PLACE WITH ASPHALT EMULSION OR OTHER APPROVED METHOD.

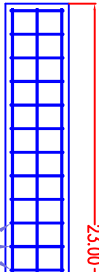
**GUARDRAIL LAYOUT & LIST**

(NOT TO SCALE)



**CONCRETE STUBWALLS**

(2) PIECES



\*NOTE: STUBWALLS & FOOTERS TO HAVE

(2) MATS OF STEEL REINFORCEMENT - UPPER & LOWER. REBAR TO BE EQUALLY SPACED W/ MIN. 2" BETWEEN STEEL & OUTER SURFACES.

**#5 REBAR QUANTITIES**

PER MAT

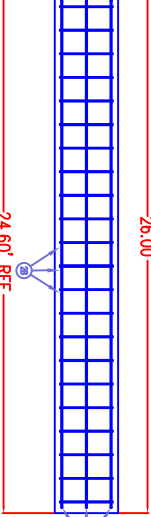
1B) (3) P.C. - 22.6"  
+ 2B) (21) P.C. - 2.6"  
120' / MAT X (4) = 480 LIN. FT.  
X 1.043# / LIN. FT. = 500.64# TOTAL

PER MAT

3B) (3) P.C. - 2.4"  
+ 2B) (22) P.C. - 2.6"  
127' / MAT X (8) = 1016 LIN. FT.  
X 1.043# / LIN. FT. = 1059.69# TOTAL

**CONCRETE WALL FOOTERS**

(4) PIECES



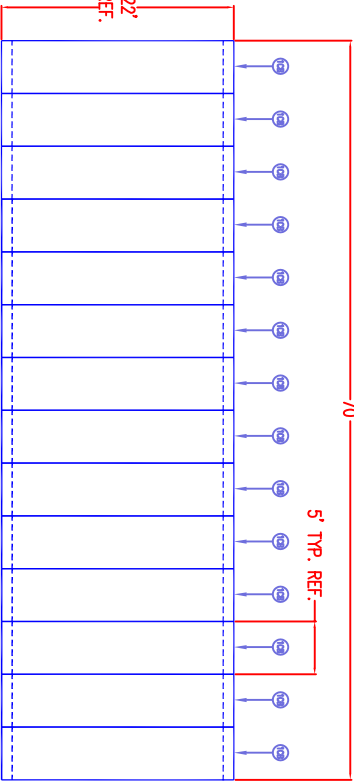
24.60' REF.

70'

5' TYP. REF.

**CONCRETE STUBWALL, FOOTER, & BOX DETAILS**

(NOT TO SCALE)

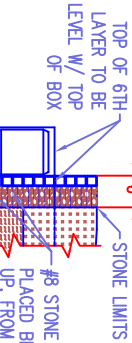


**4-SIDED CONCRETE BOX**

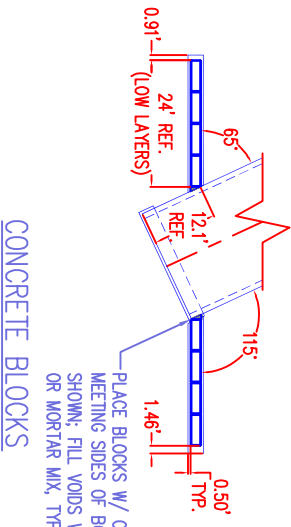
10B) (14) - 20' SPAN X 10' RISE X 5' LONG SECTIONS, WITH 12" THICK SIDEWALLS AND 14" THICK TOP & BOTTOM

**GEOTEXTILE FABRIC**

- 1F) (10) 6' X 24' (BETWEEN THE LOW LAYERS)  
2F) (12) 4' X 24' (1/2-WAY UP LOW LAYERS)  
3F) (4) 6' X 72' (BETWEEN THE TOP LAYERS)  
4F) (4) 4' X 72' (1/2-WAY UP TOP LAYERS)



#8 STONE W/ GEOTEXTILE FABRIC PLACED BETWEEN BLOCKS & 1/2 WAY UP, FROM FACES TO STONE LIMITS, TYP. EACH COURSE, EACH END



0.50' TYP.

**CONCRETE BLOCKS**

- 1B) (176) 2' X 2' X 6' FULL  
2B) (32) 2' X 2' X 3' HALF

**LEGEND**

- PROPOSED MAIN CHANNEL  
#23 A.C. (3") ON #304 (6" MIN.)  
AREA TO BE CUT  
AREA TO BE FILLED  
ROCK CHANNEL PROTECTION, TYPE D (18" THICK)  
#411 BERM STONE  
FLOWABLE FILL (LSM-50)  
#8 STONE - 6" BEDDING  
#304 STONE



Ohio Utilities Protection Service  
**Call 811**  
before you dig  
419-592-2976

THOMAS J. SCHUM, P.E., P.S.  
HENRY COUNTY ENGINEER  
1823 OAKWOOD AVENUE  
NAPOLEON, OHIO 43545  
419-592-2976

DRAWING DETAILS	
DRAWN BY:	JTH 01/13/23
DESIGNED BY:	JTH 01/13/23
REVIEWED BY:	DH 01/17/23
REVISED	

HENRY COUNTY BRIDGE 13A-0.45  
NAPOLEON TWP. (INSIDE NAPOLEON)  
BRIDGE REPLACEMENT

