

CATTARAUGUS COUNTY

DEPARTMENT OF PUBLIC WORKS

ADDENDUM NO. 1

FOR

Pre-cast Box Culvert with Wingwalls – Farmersville #6

ADDENDUM DATE: 27 July 2021

Attached please find revised specifications which now include pre-cast wingwalls. Changes are highlighted in **Yellow**.

ALL BIDDERS MUST RETURN THIS ADDENDUM WITH THEIR BID.

IN ADDITION, PLEASE ACKNOWLEDGE RECEIPT OF ADDENDUM 1 IMMEDIATELY BY PROVIDING THE INFORMATION BELOW AND FAXING THIS SHEET TO:

Cattaraugus County
Department of Public Works
(716) 938-2754

Company Name: _____ Signed: _____

Date: _____ Printed Name of Signatory: _____

CATTARAUGUS COUNTY DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS
Specifications and Bid Sheet for

PRE-CAST CONCRETE BOX CULVERT
FARMERSVILLE CULVERT NO. 6 - COUNTY ROAD #21

Chairman Public Works Committee
Cattaraugus County Legislature
303 Court Street
Little Valley, NY 14755

Gentlemen:

We propose to furnish PRE-CAST CONCRETE BOX CULVERT **WITH PRE-CAST WINGWALLS** FOR FARMERSVILLE CULVERT No. 6 in accordance with your specifications.

GENERAL:

1. It is the intent of this specification to describe the needs of Cattaraugus County for a Pre-Cast Concrete Box Culvert.
2. Shop drawings shall be submitted for approval within **10** WORKING days of execution of contract.
3. DELIVERY to be within **45** consecutive days from approval of shop drawings.
4. Failure to make delivery of materials within the stated time period shall result in a notification to the supplier and the beginning of a **5** WORKING DAY GRACE PERIOD. Failure to deliver within the GRACE PERIOD will result in a penalty of 1% of the contract bid on a per day basis from date of notification and/or cancellation of contract.
5. Cattaraugus County Department of Public Works reserves the right to reject any materials or items that are defective, damaged or not in compliance with the bid specifications.
6. The Pre-Cast Concrete Box Culvert must meet all federal, state and local laws, rules, regulations and requirements.

SPECIFICATIONS:

All provisions and stipulations of the New York State Department of Transportation Standard Specifications of May 1, 2021 and all addendums, shall apply to the manufacturer of this structure.

SHAPE:

1. The section is a four sided box section with squared open ends, to be monolithically cast of reinforced concrete.
2. Chamfered 45 degrees x 8 inch minimum fillets shall be monolithically cast in all four inside corners.

SIZE:

1. Internal dimensions **(BOX CULVERT)**:
 - A. **13 feet 0 inches** wide by **6 feet 0 inches** in height by **36 feet 0 inches** total length, shall be maintained.
2. Pre-cast toewalls at outlet and inlet are to be the width of the total section, **4'0"** in depth by **18 inches** thick as shown on accompanying detail sheet.
3. **Pre-cast wingwalls:**
 - A. **Dimensions as shown with connections at angles indicated on Plan and Detail sheets.**

SUBMITTAL:

1. Shop drawings showing reinforcement size and location shall be submitted to the Cattaraugus County Engineer for approval within 10 days of contract award.
2. Drawings shall be stamped by a registered professional engineer and accompanied by design calculations. (5 copies)
3. Shop drawings shall be in English units.

INSPECTION:

The OWNER reserves the right to inspect the plant during the manufacture of the box culvert sections. Supplier shall notify the owner a minimum of 3 working days prior to the first scheduled casting to arrange for plant inspection.

DELIVERY:

1. All components of the pre-cast concrete box culvert shall be delivered to the **Town of Farmersville** job site within 45 consecutive days of shop drawing approval by Cattaraugus County Department of Public Works.
2. This culvert shall be supplied with all necessary hardware and tools (except crane) to assemble and install culvert in a complete fashion.
3. The use of slings, 4 outside lifting eyes, 4 inside draw together lifting eyes, bolts, two (2) 2-ton chain comealongs, ratch wrench, and any other apparatus necessary to position and move culvert sections during construction by Cattaraugus County shall be supplied (at no additional cost).
4. These will be promptly returned to the supplier by Cattaraugus County after completion of the project.

STRUCTURAL NOTES FOR REINFORCED CONCRETE BOX CULVERT:

1. DESIGN SPECIFICATION: - The NYSDOT Standard Specifications.
2. MATERIALS PROPERTIES: - Steel reinforcement - ASTM A615, Grade 60, Concrete minimum compressive strength - 5000 PSI at 28 days. (Conformation testing will be required)
3. SOIL DATA: - Unit Weight - 120 LB/CF - Allowable bearing - 3000 PSF
4. LOADING DATA: - Earth cover - 1.18 FT @ CL
5. STRUCTURAL ARRANGEMENT - Concrete cover over steel - 2 inches minimum.
6. Design and method of installing mechanical fasteners shall be submitted with shop drawings. ONLY METAL INSERTS AND MECHANICAL FASTENERS WILL BE ALLOWED.
7. Concrete mix shall include a NYSDOT approved calcium nitrate based corrosion inhibitor. The corrosion inhibitor shall be added at a dosage rate of 4 gallons per cubic yard of concrete.
8. Each culvert end section shall have (8) 2" diameter holes (18" o.c.) in base to allow contractor to field drill and grout rebar dowels into precast toewall. (All No. 8 rebar dowels shall be furnished by supplier).
9. All joints shall be mated male/female and have a Rubatex or equivalent seal installed before delivery.
10. Each culvert section shall have lifting pins (4 ton min.) cast in the bottom fillets at the mid-point of the culvert to assist in draw together installation. All lifting lugs shall be Dayton Superior "Swift Lift" type or County Approved equal.
11. Each section shall be furnished with four flush mounted galvanized plates at each joint for field weld installation of 3" x 2' 4" x 1/2" galvanized bar stock which are to be supplied as part of this contract.
12. Wall and slab thicknesses shown are nominal. Actual thickness is to be determined by design.
13. Weight of each individual precast box section shall be specified.

Delivery is F.O.B. job site, on County Road #21, 0.25 miles East of the intersection with Country Road #80, Town of Farmersville.

Delivery to be coordinated with Cattaraugus County Department of Public Works.

Cost to Cattaraugus County DPW for Precast Concrete Box Culvert for Farmersville Culvert #6, including box culvert sections, toewalls, wingwalls, and all assembly hardware.

(DELIVERED TO SITE)

DOLLARS (\$ _____)

(IN WORDS)

AWARD SHALL BE MADE TO THE LOWEST QUALIFIED BIDDER.

NOTE: By signing this bid form and submitting a bid, the vendor acknowledges that they have read, understand and agree to all aspects of this document as presented. Conditional bids will not be accepted.

NAME OF FIRM

SIGNATURE

Federal ID No. _____

PRINT/TYPE NAME: _____

ADDRESS

DATE

PHONE NO.

IF PAYMENT IS TO BE MADE TO OTHER THAN THE ABOVE NAMED COMPANY, PLEASE FILL IN COMPANY NAME AND ADDRESS HERE