

SPECIFICATIONS
FOR
REINFORCED CONCRETE BOX

TO
THE BOARD OF COUNTY COMMISSIONERS
HENRY COUNTY, OHIO

FOR
THE HENRY COUNTY HIGHWAY DEPARTMENT

BIDS WILL BE RECEIVED – March 31, 2015
10:00 A.M.

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 31, 2015 at 10:00 A.M., at which time and place, bids will be opened and read for the furnishing of:

- a) 125 L.F. of 16' Span x 10' High Four Sided Concrete Box
- b) 47.35 L.F. of 18' Span x 8' High Four Sided Concrete Box With a 7 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 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: Lisa Sugg, Clerk

Please advertise:

March 10, 2015

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 (2-3 feet of cover).

General – Bid price shall include the lifting holes and plugs for all pipe, and shall include sufficient quantities of joint filler compound as required for the sizes and lengths of box sections specified.

Bid price shall include delivery to the project site.

All items will be considered on a unit price basis by line item and may be awarded individually or to any group as a whole.

Alternate Four Sided Cast In Place Concrete Box Specifications

Box Sections – Cast in place concrete box culvert must meet HL-93 loading. The bidder shall supply supplemental plans stamped by a professional engineer detailing the concrete box design. The supplemental plans shall detail the cover as provided on the current construction plans and the proper aggregate base for the structure. Plans provided shall meet the 2-3 foot of cover required under the precast option or shall meet the actual cover provided on the plan, whichever is more conservative (has more reinforcing steel and concrete). A load rating report conducted and stamped by a professional engineer must also be supplied. The hydraulic opening must be similar dimensions to the hydraulic opening on the plans.

General – County crews will prepare the site and have aggregate bedding to grade. The successful bidder's bid shall include any and all cost associated with constructing the culvert, including but not limited to, labor, materials and equipment to form, erect and install a fully complete concrete box culvert.

Prevailing wage rates per section 4115 of the Ohio Revised Code shall prevail on said alternate four sided concrete box contract.

All supplemental plans and alternate bids are subject to approval by the County Engineer. The Board of County Commissioners reserve the right to reject any and/or all alternate bids.

An excess bid allowance of \$5,800 will be attached to the 16'x10' structure and an allowance of \$5,300 will be attached to the 18'x8' structure. This allows the cast in place option to be at a higher cost than bids supplying precast reinforced concrete boxes. The allowances are added due to cost savings realized by using a cast in place concrete option (i.e. crane cost, extra stone bedding, pipe puller, etc.).

The work is to be completed in conjunction with the County Engineer's culvert replacement schedule. After grading and prep work is complete the contractor shall mobilize within 7 days.

PROOF OF INSURANCE

Vendors are required to furnish the County with a certificate of insurance in the minimum amount of \$1,000,000.00 primary and \$1,000,000.00 umbrella coverage. The County, its elected office and employees shall be named as additional insured with respect to all activities under any agreement resulting from this bidding. The certificate of insurance shall provide that such insurance shall not be cancelled without thirty (30) days prior written notice to the County. Vendors will replace certificate for any insurance expiring prior to the effective end date under any agreement resulting from this bidding.

WORKER'S COMPENSATION

Vendors shall maintain Worker's Compensation coverage as required by Ohio law. A copy of a valid Worker's Compensation certificate shall be submitted with the bid.

INDEMNIFICATION/HOLD HARMLESS

The vendor shall indemnify and hold harmless the County, its agents and employees from any and all losses, claims, damages, lawsuits, costs, judgments, expenses or any other liabilities which they may incur as a result of bodily injury, sickness, disease or death, or injury to or destruction of tangible property including the loss of use resulting therefrom, caused in whole or part by the negligent act or omission of the vendor or any person directly or indirectly employed by any of them or any person for whose acts any of them may be liable.

VERIFICATION OF "NO FINDING FOR RECOVERY"

No political subdivision shall award a contract for goods, services, or construction to a person against whom a Finding for Recovery has been issued by the Auditor of State, if the Finding for Recovery is unresolved.

The undersigned, by their signature and title, document that no "Finding for Recovery" is outstanding for the bidder.

By:

Title

Prior to award of a contract, Henry County shall verify and report to the Engineer and the Bidder that the Bidder does not appear in the State Auditor's database for "Findings of Recovery".

**AFFIDAVIT IN COMPLIANCE WITH SECTION 3517.13
OF THE OHIO REVISED CODE**

STATE OF OHIO

HENRY COUNTY

The undersigned personally appeared before me, as an individual or as a representative of

_____ for a contract for _____
(Name of Entity) (Type of Product or Service)

to be let by the County of Henry, who, being duly cautioned and sworn, makes the following statement with respect to prohibited activities constituting a conflict of interest or other violations under Ohio Revised Code Section 3517.13, and further states that the undersigned has the authority to make the following representation on behalf of himself or herself or of the business entity:

1. That none of ***the*** following has **individually** made since April 4, 2007 and that, if awarded a contract for the purchase of goods or services in excess of \$10,000, none of the following **individually** will make, beginning on the date the contract is awarded and extending until one year following the conclusion of the contract, as an individual, one or more campaign contributions totaling in excess of \$10,000, to any elected official of the County of Henry or their individual campaign committees:
 - a. Myself;
 - b. Any partner or owner or shareholder of the partnership (if applicable);
 - c. Any owner of more than 20% of the corporation or business trust (if applicable);
 - d. Each spouse of any person identified in (a) through (c) of this section;
 - e. Each child seven years of age to seventeen years of age of any person identified in divisions (a) through (c) of this section (only applicable to contributions made on or after April 4, 2007)

2. That none of the following have **collectively** made since April 4, 2007, and that, if awarded a contract for the purchase of goods or services in excess of \$10,000, none of the following **collectively** will make, beginning on the date the contract is awarded and extending until one year following the conclusion of the contract, one or more campaign contributions totaling in excess of \$10,000, to any elected official of the County of Henry or their individual campaign committees:
 - a. Myself;
 - b. Any partner or owner or shareholder of the partnership (if applicable);
 - c. Any owner of more than 20% of the corporation or business trust (if applicable);
 - d. Each spouse of any person identified in (a) through (c) of this section;
 - e. Each child seven years of age to seventeen years of age of any person identified in divisions (a) through (c) of this section (only applicable to contributions made on or after April 4, 2007)

Signature _____

Title _____

Sworn to before me and subscribed in my presence this _____ day of _____, 20_____.

Notary Public _____

My Commission expires _____

PROPOSAL

<u>Quantities</u>	<u>Description</u>	<u>Unit Price</u>	<u>Total Price</u>
125 L.F.	16' Span x 10' Rise Box Sections with No Skew	\$ _____	\$ _____
47.35 L.F.	18' Span x 8' Rise Box Sections with a 7 Degree Skew	\$ _____	\$ _____
Total Amount of Bid			\$ _____

****Drawings can be found 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: _____

ALTERNATE PROPOSAL

<u>Quantities</u>	<u>Description</u>	<u>Unit Price (If Awarded Separately)</u>	<u>Unit Price (If Both Awarded)</u>
Lump Sum	125 L.F. Long x 16' Span x 10' Rise Cast in Place Reinforced Concrete Box Culvert as per plan with no skew	\$ _____	\$ _____
Lump Sum	47.35 L.F. Long x 18' Span x 8' Rise Cast in Place Reinforced Concrete Box Culvert as per plan with a 7 degree skew	\$ _____	\$ _____
Total Amount of Bid			\$ _____

****Drawings can be found 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: _____

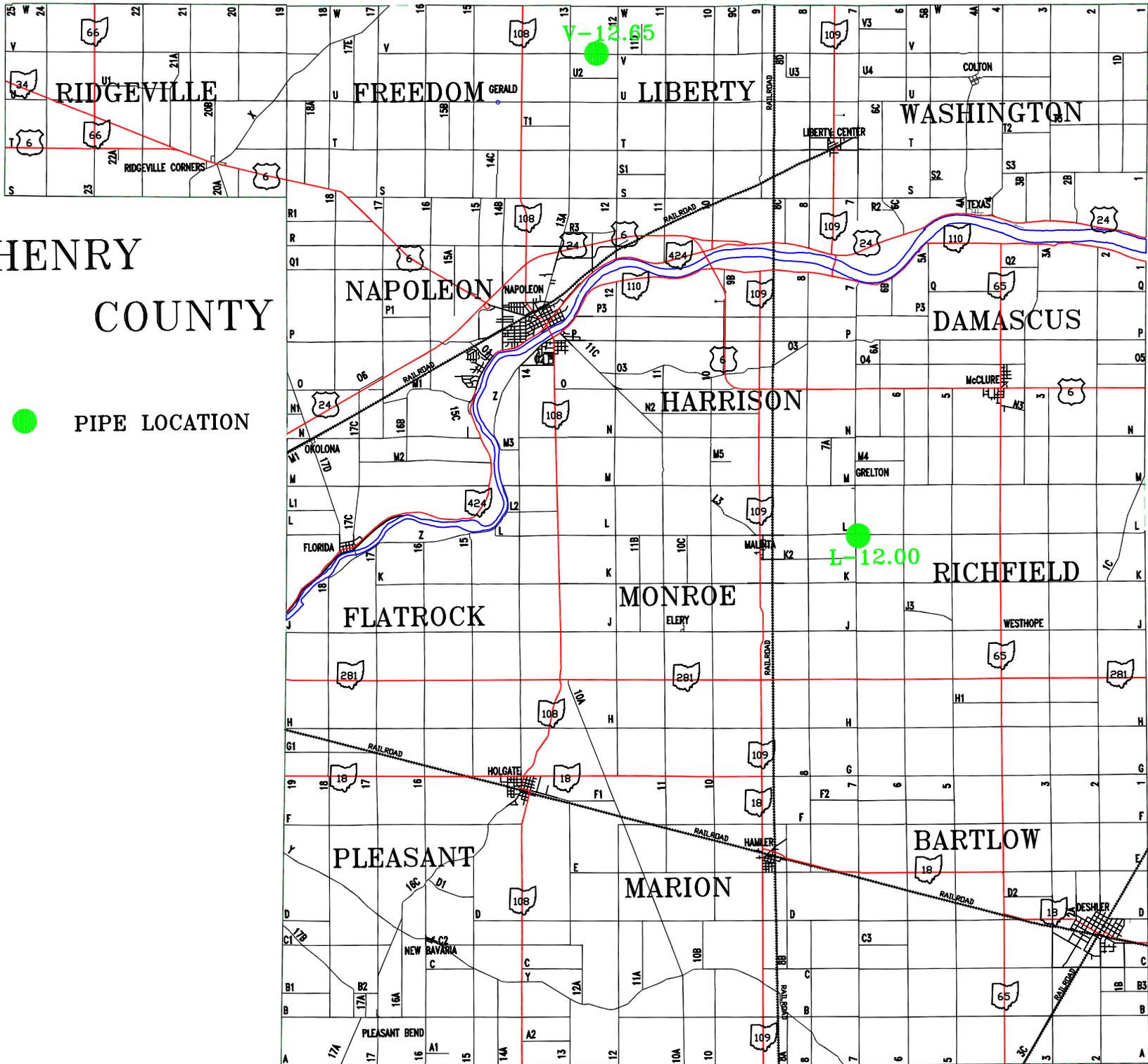
Telephone Number: _____

Fax Number: _____

Email: _____

HENRY COUNTY

● PIPE LOCATION

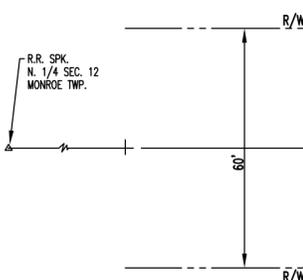
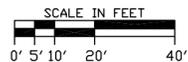


SURVEYOR & FOREMAN GENERAL NOTES & CHECK LIST

CO-ORDINATES FOR R.R. SPK., S.E. COR. SEC. 1, MONROE TWP. = 5260.605, 0.00
 CO-ORDINATES FOR 7.92' O/S R.R. SPK. NORTH OF S.E. COR. SEC. 1 MONROE TWP. 5260.808, -7.938

RECOVER STONES @ N.W. COR. SEC. 7, RICHFIELD TWP. & 7.92' O/S STONE NORTH OF N.E. COR. SEC. 12 MONROE TWP. REPLACE STONES AFTER PROJECT IS COMPLETE. NO RECORDED STONE @ N.E. COR. SEC. 12 MONROE TWP.
 PLACE O/S MAG NAILS IN ROAD FOR POINT @ N.W. COR., SEC. 7 RICHFIELD TWP.

RE-ESTABLISH N.W. COR. SEC. 7, RICHFIELD TWP. BY SETTING PT. ON LINE WITH 7.92' O/S SPK. NORTH OF N.E. COR. SEC. 12 MONROE TWP. & W/1/4 SEC. 7 RICHFIELD TWP. & 81.84' SOUTH OF 7.92' O/S SPK. GET NEW CO-ORDINATES & UPDATE OUR MAP & STONE BOOK.
 POINT HAS SLID PREVIOUSLY & IS BEING RE-ESTABLISHED AS PER OLD STONE RECORD IN CORNER STONE FILE DRAWER.
 PAINT NEW CHEVRONS WHERE NEEDED.



UTILITY OWNERS
 POWER: TRI-COUNTY
 TELEPHONE: CENTURYLINK
 TELEPHONE FIBER OPTIC: CENTURYLINK
 WATER: MALINTA WATER

FOREMAN: NOTE ADDITIONS AND CHANGES DURING CONSTRUCTION AND RETURN TO ENGINEER

SBM
 CONTACT ENGINEERS OFFICE FOR ANY NEEDED BENCHMARKS OR ELEVATIONS

5' O/S COORDINATES

- 52+41.77, 51.06' RT.
- 52+91.28, 74.53' LT.

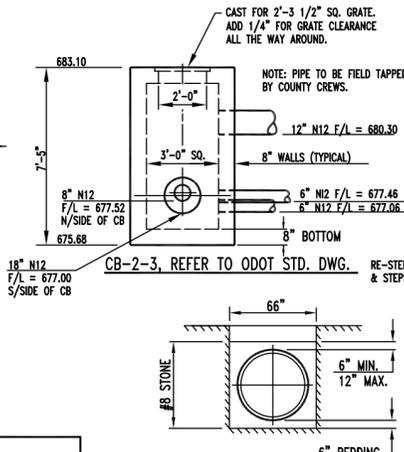
**BRIDGE L-12.00
 MONROE/RICHFIELD TWP.**



NOTE: ALL BARE OR TURF DAMAGED AREAS WHICH RESULT FROM CONSTRUCTION ACTIVITIES SHALL BE SEEDED & MULCHED. ALL MULCHING MATERIALS SHALL BE KEPT IN PLACE WITH ASPHALT EMULSION OR OTHER APPROVED METHOD.

NOTE: BACKFILL W/411 BERMSTONE TO SUBGRADE UNDER ROADWAY AND TO MINIMUM OF SPRINGLINE FOR THE REMAINING LENGTH OF PIPE. COMPACT BERMSTONE WITH MECHANICAL TAMP IN 8" LIFTS AND BY THOROUGHLY FLOODING WITH WATER.

NOTE: TRENCH WALLS SHALL BE SLOPED AT A ONE AND A HALF TO ONE RATIO (1 1/2:1) @ A POINT 4' ABOVE TRENCH BOTTOM UNLESS PROTECTED FROM SLIPPAGE BY SHORING, TRENCH BOX, OR OTHER MEANS. NO EXCAVATION MATERIAL SHALL BE STOCKPILED WITHIN 2' OF THE TRENCH WALL.



BACKFILL DETAIL FOR 30" N12 X-OVER

PLACE 5 L.F.-30" N12, INLET @ 51+83.3, 6.46' RT.
 F/L INLET = 677.0
 PLACE CENTER OF 30" 45° N12 ELBOW @ 51+90.44, 6.46' RT.
 PLACE CENTER OF 30" 45° N12 ELBOW @ 52+18.22, 34.25' RT.
 PLACE 8 L.F.-30" N12 BETWEEN 45° ELBOW & 90° ELBOW
 PLACE CENTER OF 30" 90° N12 ELBOW @ 52+18.22, 47.40' RT.
 PLACE 12 L.F.-30" N12 FROM 90° ELBOW TO EAST
 F/L OUTLET = 676.0

REMOVE 23 L.F.-10" N12
 DIVERT 10" N12
 W/27 L.F.-10" N12
 & 2-90° ELBOWS
 REMOVE EXIST. GUARDRAIL

PLACE 52 L.F.-30" N12
 F/L INLET @ C.B. = 676.58
 F/L OUTLET = 676.38

REMOVE 28 L.F.-EX. 10" CMP.
 DIVERT 10" CMP W/30 L.F.-10" N12 & 2 45° ELBOWS.
 F/L INLET @ 53+18.9, 44.8' LT. = 677.6±
 F/L OUTLET @ 52+96.3, 72.6' LT. = 677.0±
 CENTER 45° ELL. = 53+03.1, 70.8' LT.
 THESE STATIONS & ELEVATIONS ARE APPROX. DUE TO EXACT LOCATION OF EXIST. TILE IS UNKNOWN.
 TRIM OUTLET AS NEEDED. NOTE: 5 L.F. & ELBOW MAY POSSIBLY BE DELETED DEPENDING WHERE PIPE ACTUALLY LAYS. TO BE AT DIRECTION OF ENGINEER.

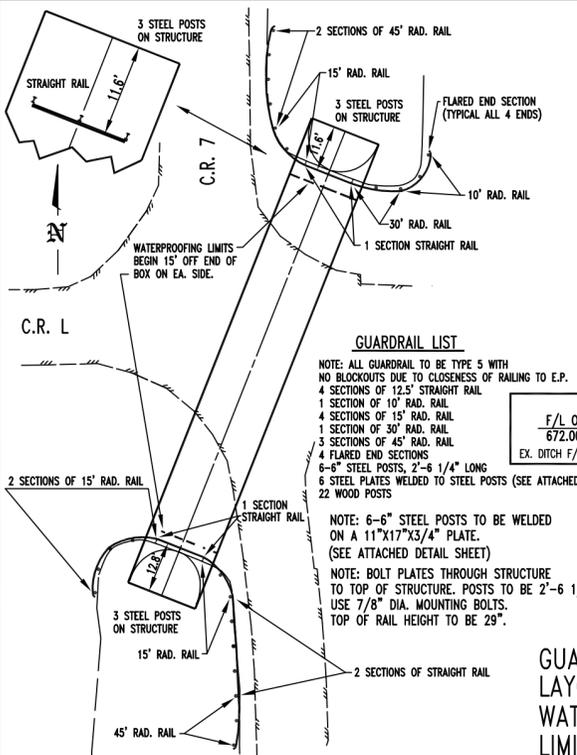
REMOVE EX. 12" CMP/PLAST. TILE.
 DIVERT 12" CMP/PLAST. TILE W/60 L.F.-12" N12 & 2-45° ELBOWS.
 F/L INLET @ 53+51.1, 46.4' LT. = 681.0
 F/L OUTLET @ 52+96.3, 77.8' LT. = 678.0
 CENTER 45° ELL. = 53+18.3, 77.8' LT.
 TRIM OUTLET AS NEEDED.

REMOVE EXIST. C.B. & 24" N12 TO WEST & 12" HELICAL/N12 TO EAST.
 PLACE 3" SQ. C.B. @ STA. 52+96.2, 10.5' RT.
 F/L GRATE = 683.10
 TAP BOTH 6" CMP PIPES INTO NEW C.B. (APPROX. F/L OF 677.46 & 677.06)
 TAP EX. 8" RCP FROM N.E. INTO NEW C.B. (APPROX. F/L OF 677.52) W/10 L.F.-8" N12 & 45° ELBOW.
 TAP 12" N12 FROM E. INTO NEW C.B. (APPROX. F/L 680.3)
 TAP 18" N12 FROM S. INTO NEW C.B. (APPROX. F/L 677.0)
 ALL TAPS TO BE FIELD TAPPED.

REMOVE 80 L.F.-30" CMP (POOR CONDITION)
 PLACE 80 L.F.-18" N12 @ 0.53%
 F/L INLET @ N. C.B. = 677.00
 F/L OUTLET @ S. C.B. = 676.58
 PATCH REMAINING HOLE FROM 30" REMOVAL

NOTE: PLACE HAZARD MARKER @ G/RAIL ENDS ALONG RD. 7

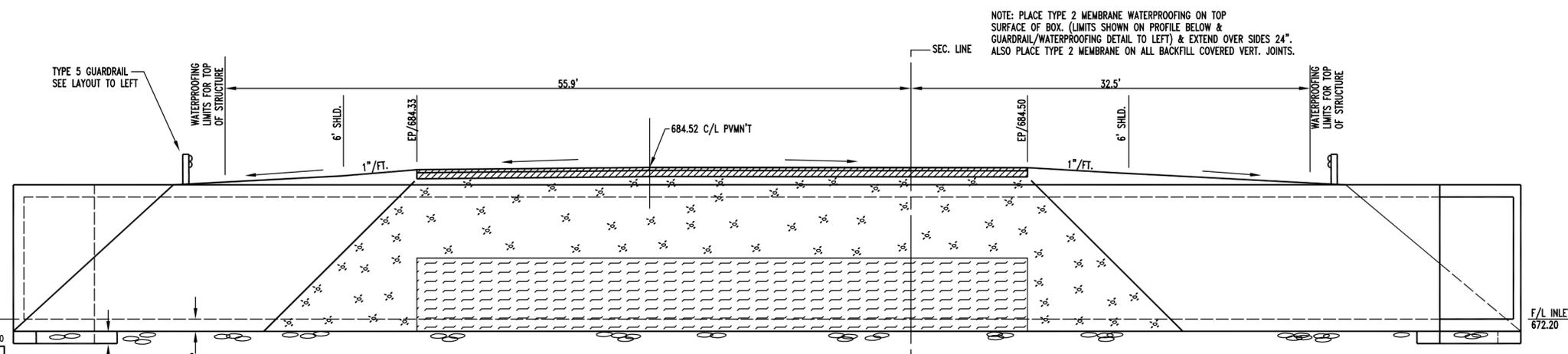
NOTE: NUMBER & LENGTH OF PRECAST BOX SECTIONS TO BE PER MANUFACTURER. TOTAL LENGTH TO = 125.0 L.F.



GUARDRAIL LIST

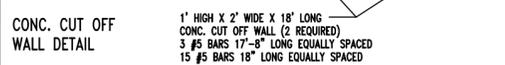
- NOTE: ALL GUARDRAIL TO BE TYPE 5 WITH NO BLOCKOUTS DUE TO CLOSENESS OF RAILING TO E.P.
- 4 SECTIONS OF 12.5' STRAIGHT RAIL
 - 1 SECTION OF 10' RAD. RAIL
 - 4 SECTIONS OF 15' RAD. RAIL
 - 1 SECTION OF 30' RAD. RAIL
 - 3 SECTIONS OF 45' RAD. RAIL
 - 4 FLARED END SECTIONS
 - 6-6" STEEL POSTS, 2'-6 1/4" LONG
 - 6 STEEL PLATES WELDED TO STEEL POSTS (SEE ATTACHED DETAIL)
 - 22 WOOD POSTS
- NOTE: 6-6" STEEL POSTS TO BE WELDED ON A 11"x17"x3/4" PLATE. (SEE ATTACHED DETAIL SHEET)
- NOTE: BOLT PLATES THROUGH STRUCTURE TO TOP OF STRUCTURE. POSTS TO BE 2'-6 1/4" LONG. USE 7/8" DIA. MOUNTING BOLTS. TOP OF RAIL HEIGHT TO BE 29".

GUARDRAIL LAYOUT & WATERPROOFING LIMITS



PROFILE VIEWING EAST

HORZ. & VERT. SCALE



CONC. CUT OFF WALL DETAIL
 1' HIGH X 2' WIDE X 18" LONG
 CONC. CUT OFF WALL (2 REQUIRED)
 3 #5 BARS 17'-8" LONG EQUALLY SPACED
 15 #5 BARS 18" LONG EQUALLY SPACED

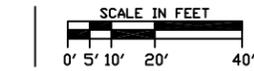
- LEGEND**
- PROPOSED MAIN CHANNEL
 - 3'-448 A.C. DN 6"(min.) -304
 - AREA TO BE CUT
 - AREA TO BE FILLED
 - ROCK CHANNEL PROTECTION, TYPE D (18" THICK)
 - 411 BERMSTONE
 - FLOWABLE FILL (LSM-50)
 - NO. 8 STONE-6" BEDDING
 - 304 STONE

PLAN - PROFILE

5' O/S COORDINATES

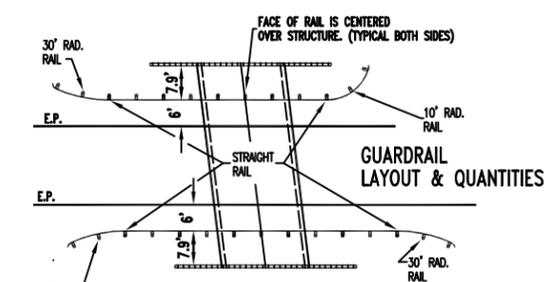
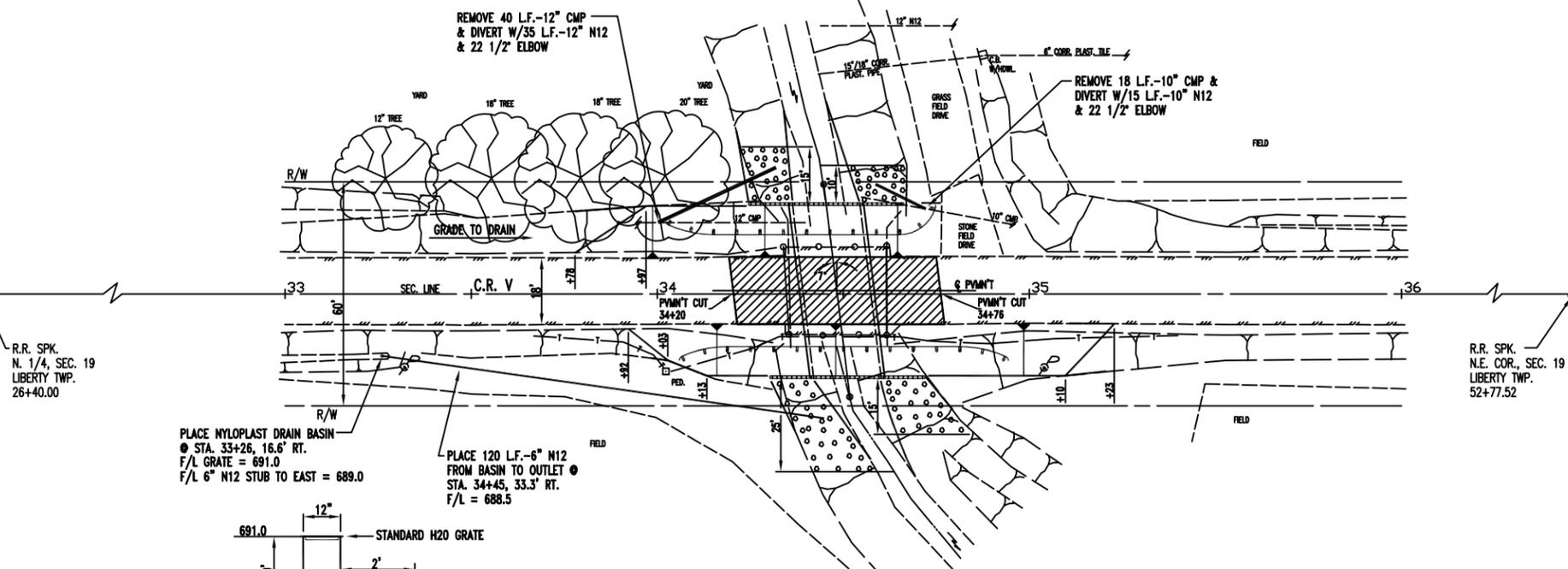
- 34+44.73, 29.35' LT.
- 34+51.72, 27.57' RT.

UTILITY OWNERS
POWER: NAPOLEON LIGHT & POWER
TELEPHONE: CENTURYLINK



QUANTITIES

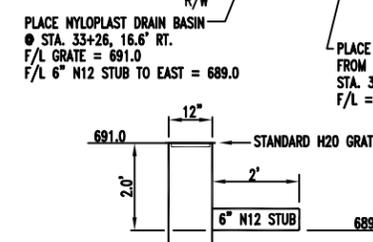
- 18 C.Y. - #8 STONE FOR BEDDING UNDER BOX
- 131 C.Y. - #8 STONE BEHIND WALLS
- 256 L.F. - #5 RE-STEEL FOR CONC. BLOCKS
- 180 L.F. - #5 RE-STEEL FOR STUB WALLS
- 202 L.F. - #5 RE-STEEL FOR WALL FOOTINGS
- 628 S.Y. GEOTEXTILE FABRIC
- 766 BLOCKS (MIN.)
- 0.6 C.Y. CONC. (#8 STONE FOR CAPS)
- 1.8 C.Y. CONC. FOR FILLING TOP 3 COURSES OF BLOCKS
- 3.8 C.Y. CONC. (2 STUB WALLS)
- 6.0 C.Y. CONC. (4 WALL FOOTINGS)
- 143 S.Y. TYPE 2 MEMBRANE WATERPROOFING (PLACE ON ENTIRE TOP W/2" OVERHANG OVERLAPPING 12" WIDE MEMBRANE COVERING VERTICAL JOINTS)



GUARDRAIL LIST

- 12.5 L.F. - 10' RAD. RAIL
- 37.5 L.F. - 30' RAD. RAIL
- 112.5 L.F. - STRAIGHT RAIL
- 4 FLARED END SECTIONS
- 28 WOOD GUARDRAIL POSTS

FOREMAN: NOTE ADDITIONS AND CHANGES DURING CONSTRUCTION AND RETURN TO ENGINEER

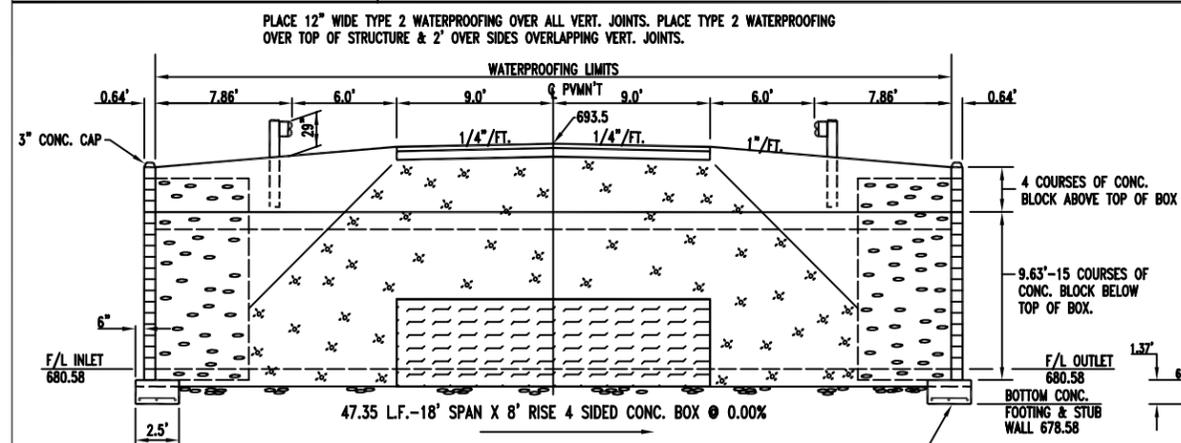


NYLOPLAST DRAIN BASIN DETAIL (ADS)

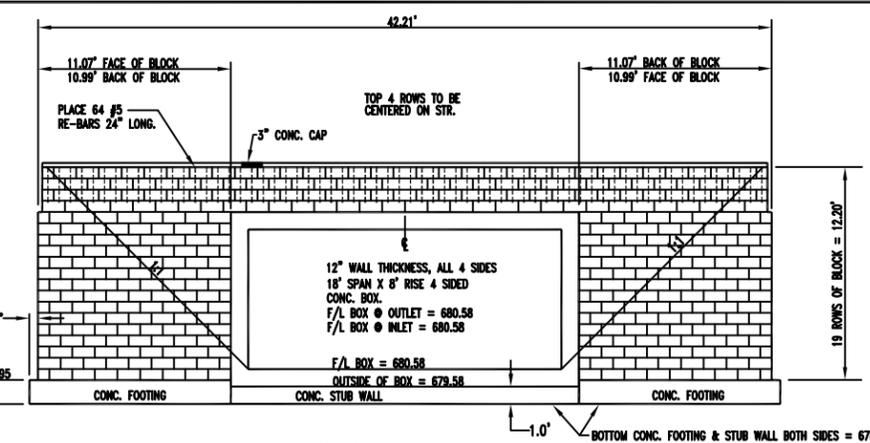
B.M. CONTACT ENGINEERS OFFICE FOR ANY BENCHMARKS NEEDED.

- NOTE: CONTACT UTILITY COMPANIES PRIOR TO CONSTRUCTION TO RELOCATE EXISTING U.G. CABLE, POWER POLES, TELEPHONE POLES, AND CABLE MARKERS AS NEEDED.
- NOTE: ALL BARE OR TURF DAMAGED AREAS WHICH RESULT FROM CONSTRUCTION ACTIVITIES SHALL BE SEEDED & MULCHED. ALL MULCHING MATERIALS SHALL BE KEPT IN PLACE WITH ASPHALT EMULSION OR OTHER APPROVED METHOD.

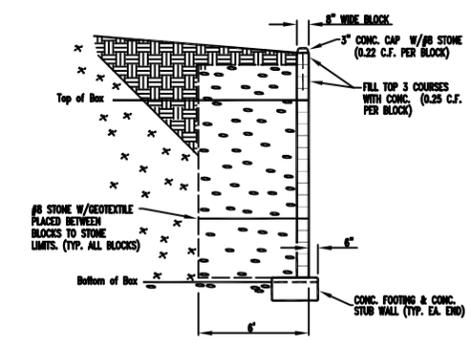
NOTE: BACKFILL W/411 BERMSTONE TO SUBGRADE UNDER ROADWAY COMPACT BERMSTONE WITH MECHANICAL TAMP IN 8" LIFTS AND THOROUGHLY FLOODING WITH WATER.



PROFILE VIEWING EAST



GRS WALL DETAIL



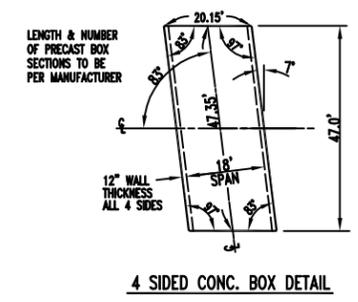
TYPICAL BLOCK WALL DETAIL NO SCALE

EXIST. DITCH F/L = 681.8

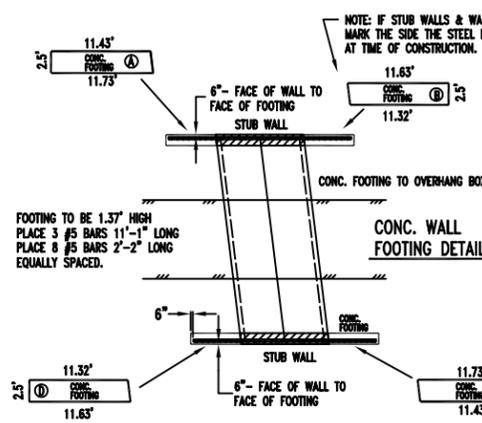
EXIST. DITCH F/L = 681.8

SEE DETAILS FOR CONC. FOOTING & STUB WALL DIMENSIONS

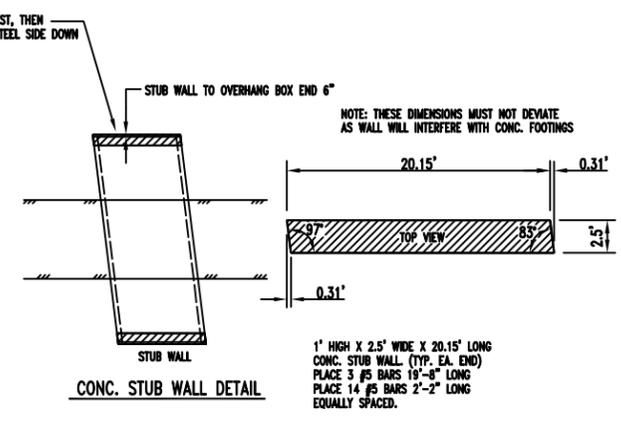
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- PROPOSED MAIN CHANNEL
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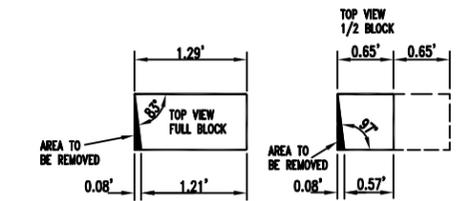
4 SIDED CONC. BOX DETAIL



CONC. WALL FOOTING DETAIL



CONC. STUB WALL DETAIL



BLOCK CUTS FOR BLOCKS BUTTING AGAINST 4 SIDED BOX SIDES

NOTE: TRENCH WALLS SHALL BE SLOPED AT A ONE AND A HALF TO ONE RATIO (1 1/2:1) @ A POINT 4' ABOVE TRENCH BOTTOM UNLESS PROTECTED FROM SLIPPAGE BY SHORING, TRENCH BOX, OR OTHER MEANS. NO EXCAVATION MATERIAL SHALL BE STOCKPILED WITHIN 2' OF THE TRENCH WALL.