

Agenda Item: 7.A.

## MEMORANDUM

**TO:** Programs, Projects and Operations Subcommittee

**FROM:** Martin P. Cleveland

**SUBJECT:** Big Papio Creek Levee (Q Street to Harrison Street) – Ralston Creek Outlet Drainage Structure Replacement Project Bids

**DATE:** January 31, 2013

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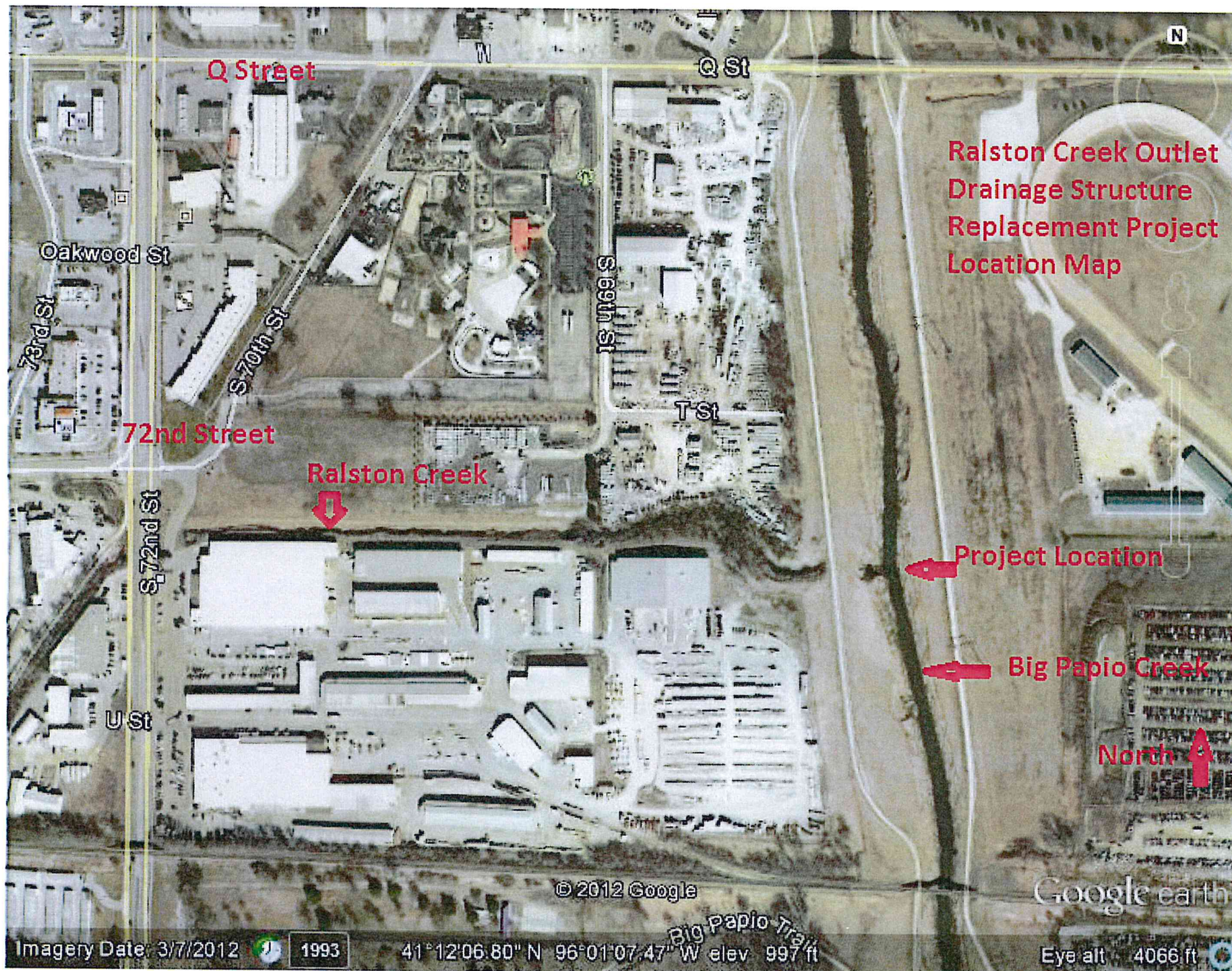
The Big Papio Creek right bank levee (west side of creek) between Q Street and Harrison Street in Omaha, NE includes the Ralston Creek outlet drainage structure. This twin 72 inch diameter corrugated metal pipe structure conveys Ralston Creek thru the right bank Big Papio Creek Levee. The corrugated metal pipe (CMP) was installed as part of the levee project over 35 years ago and is in very poor condition due to extreme deflection and corrosion. Ralston Creek drains much of Ralston, NE area east of 84<sup>th</sup> Street. See enclosed location maps and existing pipe photos.

E & A Consulting Group has designed the Ralston Creek Outlet Drainage Structure Replacement Project and plan excerpts are enclosed. The project consists of removing a twin 72 inch diameter corrugated metal pipe structure, relocating a 6 inch diameter ductile iron sewer force main and constructing a twin 6 foot tall by 5 ft. wide by 123 foot long reinforced concrete box culvert through the Big Papio Creek Levee (right bank).

Bids were opened on January 31, 2013 for the referenced project and a bid summary is enclosed. Four bids were received ranging from \$259,164.20 to \$686,369.00 The apparent low bid of \$ 259,164.20 was submitted by ME Collins Contracting Company Inc. The Engineer's cost estimate for the project, prepared by E&A Consulting Group Inc. was \$290,189. Enclosed is a recommendation letter from E&A Consulting Group Inc.

**Management recommends that the Programs, Projects and Operation Subcommittee recommend to the Board of Directors that the General Manager be authorized to execute a Contract Agreement with ME Collins Contracting Co. Inc. for the construction of the Ralston Creek Outlet Drainage Structure Replacement Project with the total base bid amount of \$ 259,164.20.**







Keystone Trail

Google earth

© 2012 Google

Big Papio Trail



## Summary of Bid Proposals

Project: Ralston Creek Channel Outlet Drainage Structure Replacement  
 Opening Date: January 31, 2013

NRD Project No. 529  
 Opening Time: 10:00 a.m.

1

2

3

4

| BIDDERS NAME: |                                     |          |      | ME Collins |            | JMN Construction |            | VRANA Construction |            | McC LLC    |            | ENGINEER'S ESTIMATE (BY E&A CONSULTING GROUP) |         |
|---------------|-------------------------------------|----------|------|------------|------------|------------------|------------|--------------------|------------|------------|------------|-----------------------------------------------|---------|
| ITEM NO.      | ITEM                                | QUANTITY | UNIT | UNIT PRICE | AMOUNT     | UNIT PRICE       | AMOUNT     | UNIT PRICE         | AMOUNT     | UNIT PRICE | AMOUNT     | UNIT PRICE                                    | AMOUNT  |
| 1             | MOBILIZATION                        | 1        | LS   | 12,000     | 12,000     | 12,275           | 12,275     | 10,000             | 10,000     | 10,000     | 10,000     | 13,189                                        | 13,189  |
| 2             | REINFORCE CONCRETE BOX              | 1        | LS   | 157,270    | 157,270    | 197,300          | 197,300    | 150,000            | 150,000    | 572,951    | 572,951    | 173,200                                       | 173,200 |
| 3             | SANITARY SEWER F.M. RELOCATION      | 1        | LS   | 50,510     | 50,510     | 99,900           | 99,900     | 48,000             | 48,000     | 65,280     | 65,280     | 31,085                                        | 31,085  |
| 4             | REMOVE EXISTING CULVERT             | 1        | LS   | 9,240      | 9,240      | 37,200           | 37,200     | 61,000             | 61,000     | 10,000     | 10,000     | 37,100                                        | 37,100  |
| 5             | ROCK RIPRAP (TYPE B)                | 140      | TON  | 50         | 7,000      | 38.50            | 5,390      | 49.00              | 6,860      | 49.50      | 6,930      | 55                                            | 7,700   |
| 6             | ROCK RIPRAP (TYPE C)                | 405      | TON  | 50         | 20,250     | 38.50            | 15,592.50  | 49.00              | 19,845     | 46.50      | 18,832.50  | 60                                            | 24,300  |
| 7             | SEEDING                             | 0.34     | AC   | 3,880      | 1,319.20   | 2,250            | 765        | 1,750              | 595        | 2,200      | 748        | 2,603                                         | 885     |
| 8             | EROSION CONTROL                     | 1050     | SY   | 1.50       | 1,575      | 1.60             | 1,680      | 1.6                | 1,680      | 1.55       | 1,627.50   | 2                                             | 2,100   |
| 9             | Total Base Bid (Add items 1 thru 8) |          |      |            | 259,164.20 |                  | 370,102.50 |                    | 297,980.00 |            | 686,369.00 |                                               | 290,189 |
|               | Bid Bond (Yes or No)                |          |      |            | Yes        |                  | Yes        |                    | Yes        |            | Yes        |                                               |         |

Note: LS: Lump Sum AC: Acres SY = Square Yards

\*Apparent Low Bidder is M.E. Collins Contracting Co. Inc.



*Engineering Answers*

**E & A CONSULTING GROUP, INC.**

ENGINEERING • PLANNING • ENVIRONMENTAL & FIELD SERVICES

330 NORTH 117TH STREET  
OMAHA, NE 68154-2509

www.eacg.com

PHONE: 402.895.4700  
FAX: 402-895-3599

January 31, 2013

Mr. Martin Cleveland  
Construction Engineer  
Papio-Missouri River Natural Resources District  
8901 S. 154<sup>th</sup> St.  
Omaha, NE 68138

Re: Ralston Creek Outlet Drainage Structure Replacement  
Recommendation regarding bidding contractors  
E&A Job No. P2012.285.001

Dear Mr. Cleveland:

I have reviewed each of the bids and the bid summary, compiled by you earlier today, and all items appear to have been properly accounted for by each of the four bidding contractors. M.E. Collins Contracting Co., Inc. is the apparent low bidder at \$259,164.20, \$31,024.80 lower than our engineer's estimate of \$290,189.00.

My recommendation is that ME Collins be awarded the contract.

Sincerely,  
**E & A CONSULTING GROUP, INC.**

Joseph A. Ficenec, P.E.  
Manager of Structural Engineering and Project Manager

CC: File

JAN 31 2013

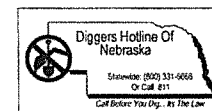
**General Notes:**

- All work shall be done in accordance with the Nebraska Department of Roads "Standard Specifications for Highway Construction, 2007 Edition" unless otherwise noted.
- Utilities are shown as a convenience for the Contractor. The locations of all aerial and underground utilities may not be indicated in these plans. Underground utilities, whether indicated or not, will be located and flagged by the utility companies at the Contractor's request. The Contractor shall notify all utility companies before work is started to verify utility locations. One Call (800) 331-5854. No excavation will be permitted in the area until all utilities have been located and identified to the satisfaction of all parties and then only with extreme care to avoid any possibility of damage. Any damage to the utilities will be at the Contractor's expense.
- A Geotechnical Excavation Report has been prepared for this project and is incorporated herein by reference. Geotechnical Excavation Report, Ralston Creek Drainage Structure, South 68th Street and T Street, Omaha, Nebraska, Thayer Consulting Inc., Dated 7.2.2012. Unless otherwise indicated in the plan drawings or special provisions, the recommendations of said report shall be followed in performing grading, paving, and utility operations. The Contractor shall have access to the report prior to the bid.
- All elevation shown reference NAVD 1985.

# RALSTON CREEK OUTLET DRAINAGE STRUCTURE REPLACEMENT



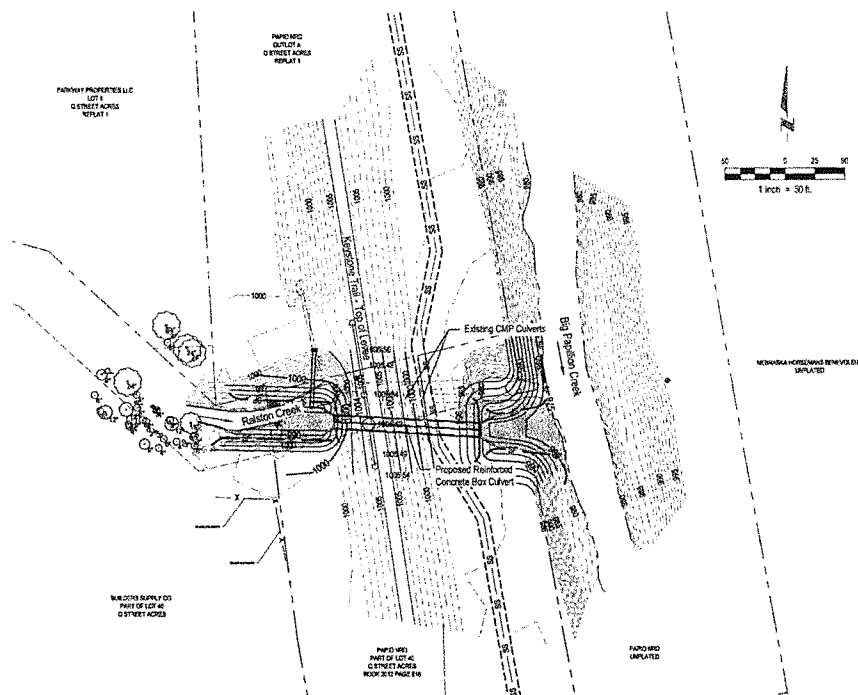
PAPIO-MISSOURI RIVER  
NATURAL RESOURCE DISTRICT  
PROJECT NO. 529 (RC 2012)



**LEGEND**

NOTE: FOR REFERENCE ONLY, ITEMS DEPICTED IN LEGEND MAY NOT APPEAR ON PLANS

- SECTION CORNER
- BUILDING
- FIRE HYDRANT
- UTILITY VALVE (GAS)
- UTILITY VALVE (WATER)
- MANHOLE
- FLARED END SECTION (SIZE NOTED)
- RCBC REINFORCED CONCRETE BOX CULVERT
- FENCE LINE
- GAS LINE
- WATER LINE
- POWER LINE
- COMMUNICATION LINE (TELEPHONE, TV)
- SANITARY SEWER LINE
- STORM SEWER LINE
- FIBER OPTICS LINE
- TREE STUMP
- BUSH
- CONIFEROUS TREE
- DECIDUOUS TREE



**INDEX OF SHEETS**

| No. | DESCRIPTION                                            |
|-----|--------------------------------------------------------|
| 1.  | COVER                                                  |
| 2.  | FORCEMAIN RELOCATION - NOTES AND DETAILS (OPW52413-SS) |
| 3.  | FORCEMAIN RELOCATION - PLAN AND PROFILE (OPW52413-SS)  |
| 4.  | 30' CMP EXTENSION PLAN AND PROFILE                     |
| 5.  | GRADING AND EROSION CONTROL                            |
| 6.  | CULVERT PLAN AND PROFILE                               |
| 7.  | CULVERT SECTION DETAILS                                |
| 8.  | CULVERT WINGWALL DETAILS                               |
| 9.  | CULVERT SECTIONS, DETAILS, & TRAIL SECTIONS, DETAILS   |

**APPROXIMATE QUANTITIES**

| ITEM | DESCRIPTION                          | QTY. | UNIT |
|------|--------------------------------------|------|------|
| 1.   | MOBILIZATION                         | 1    | LS   |
| 2.   | REINFORCED BOX CULVERT               | 1    | LS   |
| 3.   | SANITARY SEWER FORCEMAIN RELOCATION  | 1    | LS   |
| 4.   | REMOVAL EXISTING CULVERT             | 1    | LS   |
| 5.   | TYPE "B" RIPRAP ON GEOTEXTILE FABRIC | 140  | TN   |
| 6.   | TYPE "C" RIPRAP ON GEOTEXTILE FABRIC | 405  | TN   |
| 7.   | SEEDING                              | 0.34 | AC   |
| 8.   | EROSION CONTROL, TYPE C-1            | 1050 | SY   |



I, Joseph A. Fisman, am the  
Coordinating Professional on the  
Ralston Creek Outlet Drainage  
Structure Replacement Project.

OPW 52413 - SSD (Applies to Force Main Relocation Only)

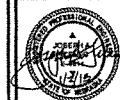
**E & A CONSULTING GROUP, INC.**  
Engineering • Planning • Environmental & Field Services

35 North 11th Street, Suite 200  
Omaha, NE 68102  
Phone: 402.466.1000  
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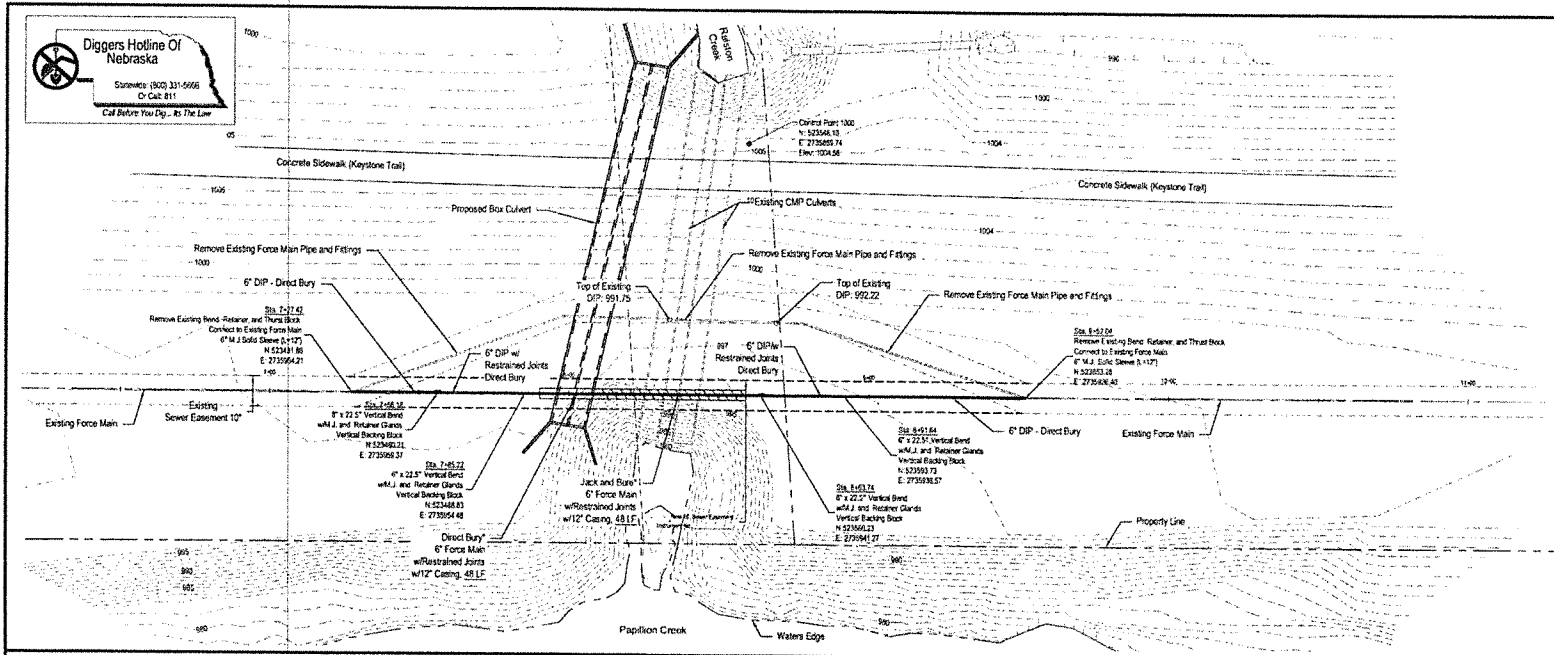
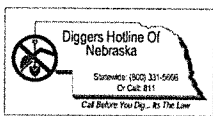


**RALSTON CREEK OUTLET DRAINAGE STRUCTURE REPLACEMENT**  
PAPIO-MISSOURI RIVER NATURAL RESOURCE DISTRICT  
PROJECT NO. 529 (RC 2012)

COVER

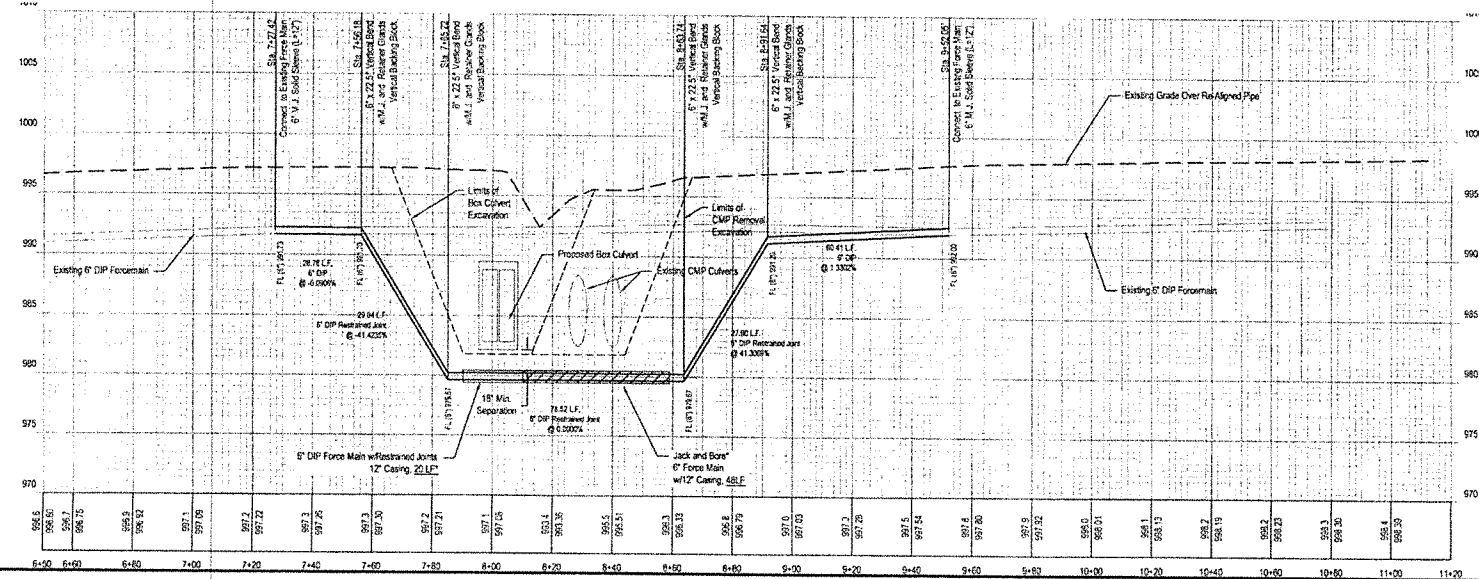


| Item No. | Description                          | Quantity | Unit |
|----------|--------------------------------------|----------|------|
| 1.       | MOBILIZATION                         | 1        | LS   |
| 2.       | REINFORCED BOX CULVERT               | 1        | LS   |
| 3.       | SANITARY SEWER FORCEMAIN RELOCATION  | 1        | LS   |
| 4.       | REMOVAL EXISTING CULVERT             | 1        | LS   |
| 5.       | TYPE "B" RIPRAP ON GEOTEXTILE FABRIC | 140      | TN   |
| 6.       | TYPE "C" RIPRAP ON GEOTEXTILE FABRIC | 405      | TN   |
| 7.       | SEEDING                              | 0.34     | AC   |
| 8.       | EROSION CONTROL, TYPE C-1            | 1050     | SY   |



Scale: Horiz. 1"=20'  
Vert. 1"=5'

\* The contractor may at its option continue the Jack and Bore to the south 27' rather than open out that portion of the main and casing.



OPW 52413 - SSD

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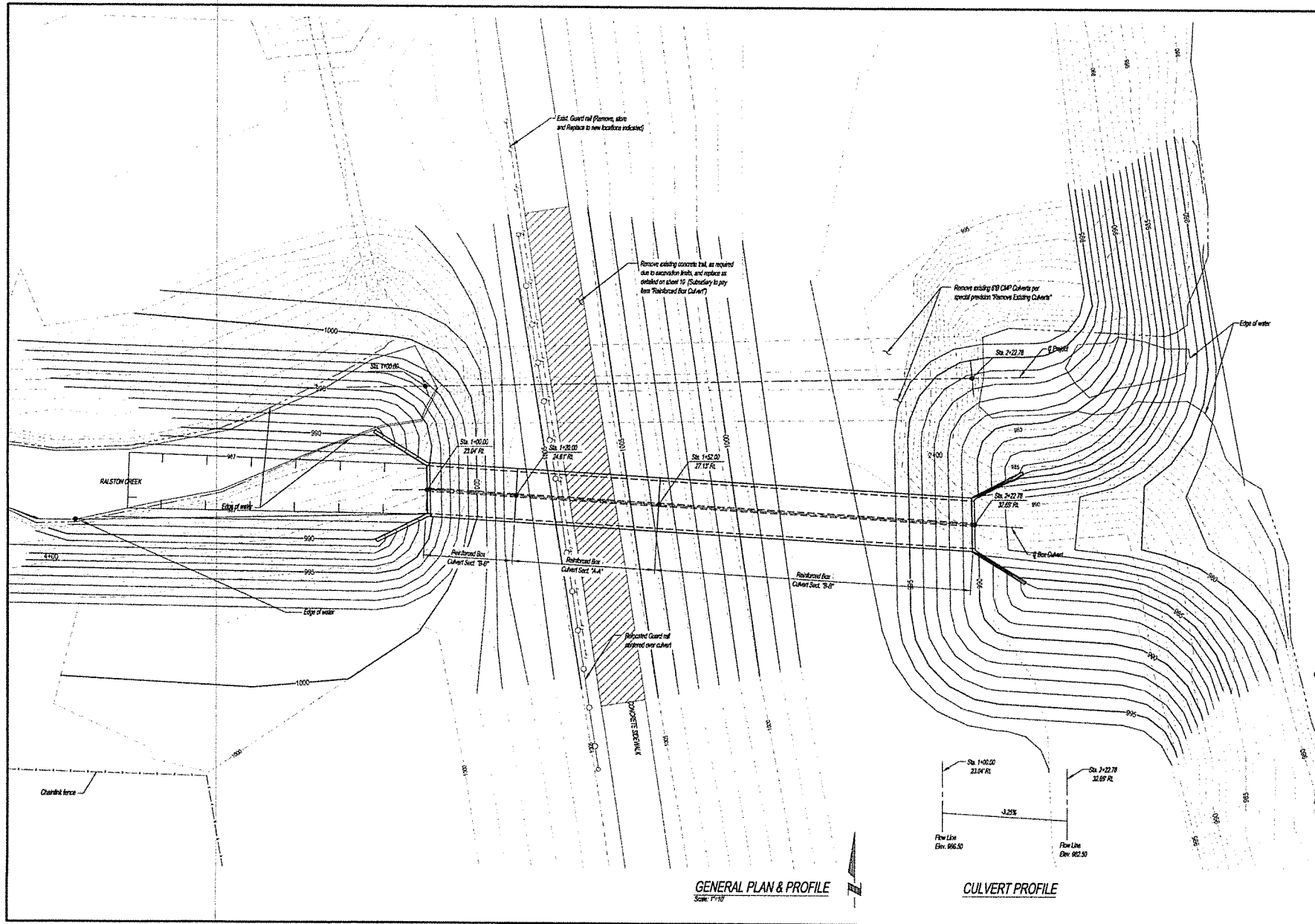
**RALSTON CREEK OUTLET  
DRAINAGE STRUCTURE  
REPLACEMENT**  
PROJECT NO. 531 (01/02)

**SANITARY SEWER  
FORCEMAIN  
RELOCATION**  
PLAN AND PROFILE



|             |             |
|-------------|-------------|
| PROJECT NO. | 531 (01/02) |
| DATE        | 02/20/02    |
| DESIGNED BY | SSD         |
| DRAWN BY    | SSD         |
| CHECKED BY  | SSD         |
| DATE        | 11-15-05    |

Drawn by: SSD 11/15/05 4: The Engineer's Office/Professional Seal Required for Seal

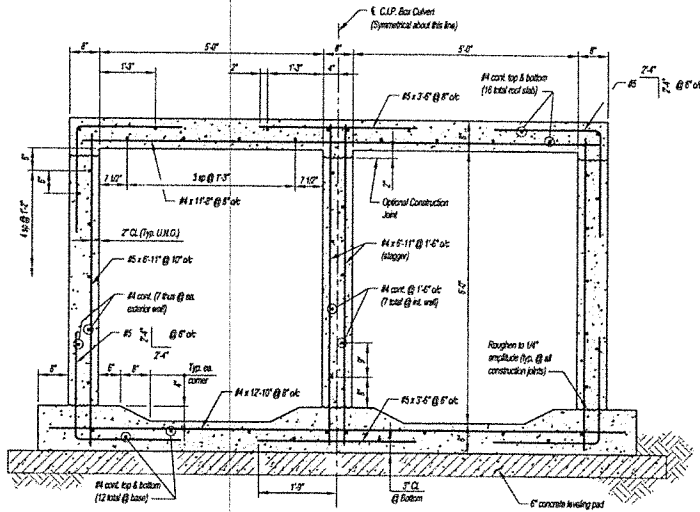


GENERAL PLAN & PROFILE  
Scale: 1"=10'

CULVERT PROFILE

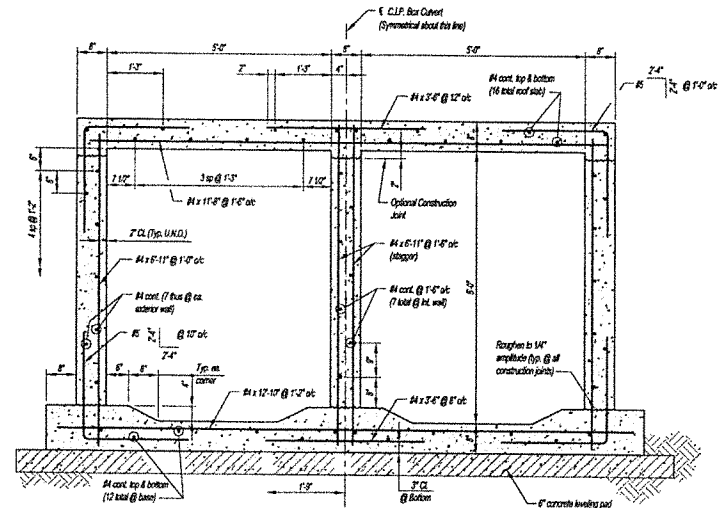
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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
|  <b>E&amp;A CONSULTING GROUP, INC.</b><br>ENGINEERING • PLANNING • FIELD SERVICES<br>300 NORTH 11TH STREET, SUITE 101 OMAHA, NE 68104<br>PHONE (402) 845-4000 FAX (402) 845-5399<br>www.eandg.com |                                 |
| <b>RALSTON CREEK OUTLET DRAINAGE STRUCTURE REPLACEMENT</b><br>PROJECT LOCATION: RALSTON CREEK OUTLET DRAINAGE STRUCTURE REPLACEMENT<br>PROJECT NO. 101-101-001                                                                                                                       |                                 |
| <b>GENERAL PLAN AND PROFILE</b>                                                                                                                                                                                                                                                      |                                 |
|                                                                                                                                                                                                  |                                 |
| Project No. 101-101-001<br>Date 10/1/2010<br>Designer JAS<br>Draftsman JAS<br>Checker JAS<br>Scale 1"=10'                                                                                                                                                                            | Revision<br>Date<br>Description |





| Culvert Section "A-A"                      |                  |
|--------------------------------------------|------------------|
| Quantities for Contractor Information Only |                  |
| Concrete                                   | 1.13 C.Y. / L.F. |
| Reinforcing Steel                          | 132.5 lbs / L.F. |

**CULVERT SECTION "A-A"**  
Scale: 3/4"=1'-0"



| Culvert Section "B-B"                      |                  |
|--------------------------------------------|------------------|
| Quantities for Contractor Information Only |                  |
| Concrete                                   | 1.13 C.Y. / L.F. |
| Reinforcing Steel                          | 87.5 lbs / L.F.  |

**CULVERT SECTION "B-B"**  
Scale: 3/4"=1'-0"

**Reinforced Concrete Box Culvert Notes:**

- All work associated with the placement of the reinforced concrete box culvert & its appurtenances shall be done in accordance with the Nebraska Department of Roads "Standard Specifications for Highway Construction", 2007 edition.
- All concrete shall be 4750 - 4000 or an approved substitute.
- All reinforcing steel shall be ASTM A615, Gr. 60.
- All exposed edges of concrete shall be chamfered 3/4".
- Reinforcing bars at sloped edges shall be field cut as required to maintain required concrete cover.
- Concrete cover for reinforcing bars shall be 2" typically except at unreinforced edges and at the base of footings where 3" shall be provided.
- Lap reinforcing bars as follows:

| Bar Size | Top Bar* | Other Bar* |
|----------|----------|------------|
| #4       | 2'-5"    | 1'-8"      |
| #5       | 3'-0"    | 2'-2"      |
| #6       | 3'-7"    | 2'-7"      |

\* Top Bars are bars with 12" or more of heavily poured concrete beneath them. All bars not fitting this classification are "Other Bars".
- Quantities listed for box culvert reinforcement and concrete do not include materials for the leveling pad nor do they include an allowance for reinforcement laps. These quantities are provided for Contractor information only, since the pay item "Concrete Box Culvert" is based on lump-sum payment.
- Quantities listed for WingWall concrete and reinforcement are provided for contractor's information only.



| NO. | DATE       | BY  | CHKD. | APP'D. |
|-----|------------|-----|-------|--------|
| 1   | 07/12/2012 | JAC |       |        |
| 2   | 07/12/2012 | JAC |       |        |
| 3   | 07/12/2012 | JAC |       |        |
| 4   | 07/12/2012 | JAC |       |        |
| 5   | 07/12/2012 | JAC |       |        |
| 6   | 07/12/2012 | JAC |       |        |
| 7   | 07/12/2012 | JAC |       |        |
| 8   | 07/12/2012 | JAC |       |        |
| 9   | 07/12/2012 | JAC |       |        |
| 10  | 07/12/2012 | JAC |       |        |











