

Agenda Item: 8.

MEMORANDUM

TO: Programs, Projects and Operations Subcommittee
FROM: Martin P. Cleveland, Construction Engineer
SUBJECT: Big Papio Creek Levee Culverts Project
DATE: May 5, 2016

The Big Papio Levee Culverts Project is located in Douglas and Sarpy Counties, in Nebraska, as shown on the enclosed location map. The project consists replacing four corrugated metal pipes (CMP) with reinforced concrete pipe (RCP) and high density polyethylene pipe (HDPE). In addition, nine corrugated metal pipes will be lined with HDPE pipe. The thirteen corrugated metal pipes have corroded inverts with perforations.

The project was bid in December 2015 and rebid in February 2016 with four received bids (two each time) ranging from \$1,928,003.76 to \$2,793,185.46. The December 2015 and February 2016 bids were rejected to significant deviation from the engineer's cost estimate. The contract period was extended from 95 to 120 working days and the contractor was allowed to schedule and complete the work during the next year period in the recent bid letting.

On April 26, 2016, the District again opened bids for the Big Papio Levee Culverts project. Only one bid was received by the bid opening deadline. The bid is \$1,683,688.50 and was submitted by Nelson and Rock Contracting Inc. Enclosed is a bid summary.

The Engineer's cost estimate for the Big Papio Levee Culverts project, prepared by FYRA Engineering, is \$1,143,842.25. Enclosed is the engineer's bid recommendation letter. It is the engineer's recommendation that the bid of \$1,683,688.50 received from Nelson and Rock Contracting Inc. be accepted.

Management recommends that the Programs, Projects and Operations Subcommittee recommend to the Board of Directors that the General Manager be authorized to execute a contract with Nelson and Rock Contracting Inc. in the amount of \$1,683,688.50 for the construction of the Big Papio Levee Culverts Project, subject to changes deemed necessary by the General Manager and approved as to form by District Legal Counsel.



April 26, 2016

Mr. Martin Cleveland
Papio-Missouri River NRD
8901 S. 154th Street
Omaha, NE 68138

Re: Big Papio Levee Culverts Project – Bid Recommendation

Dear Martin:

The bid opening for the above-referenced project was held at the P-MRNRD on April 26, 2016. This was a follow up to the Board accepting the Engineer's Recommendation after the February 24th bid opening to reject all bids and re-bid the project for a third time. For your convenience, that recommendation is attached to this letter. One bid was received for the project. The results of the bid are attached to this letter in the form of a bid tabulation sheet. The low bid of \$1,683,688.5 was received from Nelson & Rock Contracting, Inc, of Onawa, IA and was above the engineer's estimate of \$1,143,842.25. This was lower than the previously low bid submitted by M.E. Collins of \$1,928,003.76. The higher bid at each of the previous bid openings was submitted by Valley Corporation which were \$2,693,326.42 and \$2,793,185.46 respectively.

After a review of the bids, the unit prices appear to be reasonable, given the current bidding climate. After the previous bid that the Board rejected, the Contract Documents were re-written to extend the allowable working days from 95 to 120 as well as the previously established one calendar year work completion timeframe. All contractors that expressed interest were notified and several stated that they had intended to bid the project again if the working duration was lengthened, but unfortunately, that did not happen.

I contacted Wayne Rock and he provided an equipment list and project schedule and noted that he plans to use Niewohner Construction (also from Onawa, IA who recently constructed the Elkhorn River 240th Street Channel Improvement Project for the P-MRNRD.) That information is also attached.

Due to the previous bid results and the current bidding climate, my recommendation is to award the project to Nelson & Rock Contracting, Inc and begin the contracting process upon Board approval.

Please feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'M. Sotak', with a stylized flourish at the end.

Michael K. Sotak, P.E.

Big Papio Levee Culverts Project - Bid Tabulation Sheet

City of Bellevue Culvert

Contractor			Nelson & Rock Contracting, Inc		Engineer's Opinion of Costs	
Item	Unit	Total	Unit Cost	Extension	Unit Cost	Extension
Mobilization	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 6,000.00	\$ 6,000.00
Pipe Cleaning	LS	1	\$ 5,000.00	\$ 5,000.00	\$ 2,000.00	\$ 2,000.00
Strip, Stockpile, and Replace 6" Topsoil	SY	405	\$ 3.00	\$ 1,215.00	\$ 5.00	\$ 2,025.00
Excavation	CY	1194	\$ 10.00	\$ 11,940.00	\$ 4.00	\$ 4,776.00
Embankment	CY	6	\$ 50.00	\$ 300.00	\$ 4.00	\$ 24.00
Levee Embankment	CY	936	\$ 12.00	\$ 11,232.00	\$ 4.00	\$ 3,744.00
Remove Concrete Headwall	EA	1	\$ 500.00	\$ 500.00	\$ 600.00	\$ 600.00
Remove 36" Dia CMP	LF	36	\$ 30.00	\$ 1,080.00	\$ 25.00	\$ 900.00
Remove, Recondition and Reinstall 36" Dia Flap Gate	EA	1	\$ 2,200.00	\$ 2,200.00	\$ 1,100.00	\$ 1,100.00
36" Dia CMP	LF	8.5	\$ 125.00	\$ 1,062.50	\$ 80.00	\$ 680.00
30" Dia RCP	LF	36	\$ 150.00	\$ 5,400.00	\$ 100.00	\$ 3,600.00
30" Dia RCP Flared End Section	EA	1	\$ 1,500.00	\$ 1,500.00	\$ 1,000.00	\$ 1,000.00
30" Dia HDPE Sliplining w/Grout	LF	153	\$ 150.00	\$ 22,950.00	\$ 245.00	\$ 37,485.00
36" Joint Block	EA	1	\$ 2,000.00	\$ 2,000.00	\$ 1,800.00	\$ 1,800.00
6" Crushed Rock Surfacing	SY	138	\$ 18.00	\$ 2,484.00	\$ 7.00	\$ 966.00
Double Timber Pile Pipe Support	EA	1	\$ 7,000.00	\$ 7,000.00	\$ 5,000.00	\$ 5,000.00
Class "C" RipRap	TN	235	\$ 55.00	\$ 12,925.00	\$ 60.00	\$ 14,100.00
Class "B" RipRap	TN	66	\$ 65.00	\$ 4,290.00	\$ 50.00	\$ 3,300.00
SWPPP Measures	LS	1	\$ 5,000.00	\$ 5,000.00	\$ 900.00	\$ 900.00
Seeding	AC	0.5	\$ 5,000.00	\$ 2,500.00	\$ 700.00	\$ 350.00
			TOTAL	\$ 110,578.50	TOTAL	\$ 90,350.00

City of Omaha Culverts

Contractor			Nelson & Rock Contracting, Inc		Engineer's Opinion of Costs	
Item	Unit	Total	Unit Price	Extension	Unit Cost	Extension
MOBILIZATION	LS	1	\$ 20,000.00	\$ 20,000.00	\$ 15,700.00	\$ 15,700.00
PIPE CLEANING	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 6,000.00	\$ 6,000.00
STRIP, STOCKPILE, AND REPLACE 6" TOPSOIL	SY	485	\$ 3.00	\$ 1,455.00	\$ 5.00	\$ 2,425.00
EXCAVATION	CY	1143	\$ 10.00	\$ 11,430.00	\$ 4.00	\$ 4,572.00
EMBANKMENT	CY	447	\$ 12.00	\$ 5,364.00	\$ 4.00	\$ 1,788.00
REMOVE AND REPLACE SPLIT RAIL FENCE	LF	75	\$ 25.00	\$ 1,875.00	\$ 25.00	\$ 1,875.00
REMOVE 24" DIA CMP	LF	30	\$ 25.00	\$ 750.00	\$ 15.00	\$ 450.00
REMOVE 36" DIA CMP	LF	10	\$ 40.00	\$ 400.00	\$ 25.00	\$ 250.00
REMOVE 42" DIA CMP	LF	52	\$ 50.00	\$ 2,600.00	\$ 50.00	\$ 2,600.00
REMOVE 24" DIA FLAP GATE	EA	2	\$ 300.00	\$ 600.00	\$ 200.00	\$ 400.00
20" DIA SOLID WALL HDPE	LF	30	\$ 65.00	\$ 1,950.00	\$ 50.00	\$ 1,500.00
20" DIA HDPE SLIPLINING W/GROUT	LF	500	\$ 120.00	\$ 60,000.00	\$ 145.00	\$ 72,500.00
30" DIA HDPE SLIPLINING W/GROUT	LF	135	\$ 150.00	\$ 20,250.00	\$ 245.00	\$ 33,075.00
42" DIA RCP	LF	52	\$ 250.00	\$ 13,000.00	\$ 200.00	\$ 10,400.00
42" DIA RCP PIPE BEND	EA	1	\$ 3,000.00	\$ 3,000.00	\$ 2,000.00	\$ 2,000.00
HIGH STRENGTH INFLATABLE PIPE PLUG	EA	2	\$ 6,000.00	\$ 12,000.00	\$ 500.00	\$ 1,000.00
24" CONCRETE JOINT BLOCK	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 1,500.00	\$ 3,000.00
42" JOINT BLOCK	EA	1	\$ 2,000.00	\$ 2,000.00	\$ 1,800.00	\$ 1,800.00
42" DIA CONCRETE COLLAR	EA	1	\$ 2,000.00	\$ 2,000.00	\$ 1,600.00	\$ 1,600.00
18" DIA METAL FLARED END SECTION W/TAPER	EA	2	\$ 700.00	\$ 1,400.00	\$ 400.00	\$ 800.00
24" DIA FLAP GATE	EA	2	\$ 1,200.00	\$ 2,400.00	\$ 2,000.00	\$ 4,000.00
36" DIA FLAP GATE	EA	1	\$ 2,000.00	\$ 2,000.00	\$ 2,500.00	\$ 2,500.00
42" DIA FLAP GATE	EA	1	\$ 2,500.00	\$ 2,500.00	\$ 3,000.00	\$ 3,000.00
SINGLE TIMBER PILE PIPE SUPPORT	EA	3	\$ 4,000.00	\$ 12,000.00	\$ 2,900.00	\$ 8,700.00
DOUBLE TIMBER PILE PIPE SUPPORT	EA	1	\$ 6,000.00	\$ 6,000.00	\$ 5,000.00	\$ 5,000.00
CLASS "C" RIPRAP	TN	627	\$ 55.00	\$ 34,485.00	\$ 60.00	\$ 37,620.00
CLASS "B" RIPRAP	TN	171	\$ 60.00	\$ 10,260.00	\$ 50.00	\$ 8,550.00
GEOTEXTILE FABRIC	SY	223	\$ 5.00	\$ 1,115.00	\$ 1.75	\$ 390.25
SWPPP MEASURES	LS	1	\$ 5,000.00	\$ 5,000.00	\$ 1,700.00	\$ 1,700.00

SEEDING	AC	1.5	\$ 5,000.00	\$ 7,500.00	\$ 700.00	\$ 1,050.00
WETLAND SEEDING	AC	0.02	\$ 10,000.00	\$ 200.00	\$ 2,000.00	\$ 40.00
			TOTAL	\$ 255,534.00	TOTAL	\$ 236,285.25

Remaining Culverts

Contractor			Nelson & Rock Contracting, Inc		Engineer's Opinion of Costs	
Item	Unit	Total	Unit Price	Extension	Unit Cost	Extension
Mobilization	LS	1	\$ 30,000.00	\$ 30,000.00	\$ 53,700.00	\$ 53,700.00
Pipe Cleaning	LS	1	\$ 5,000.00	\$ 5,000.00	\$ 9,500.00	\$ 9,500.00
Ring Levee Embankment and Removal	CY	1672	\$ 20.00	\$ 33,440.00	\$ 12.00	\$ 20,064.00
Clearing and Grubbing	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 3,000.00	\$ 3,000.00
Temporary 24" Dia CMP through Ring Levee	LF	199	\$ 40.00	\$ 7,960.00	\$ 40.00	\$ 7,960.00
Temporary 24" Dia Flap Gate for Ring Levee	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 2,000.00	\$ 4,000.00
Strip, Stockpile, and Replace 6" Topsoil	SY	4661	\$ 3.00	\$ 13,983.00	\$ 5.00	\$ 23,305.00
Excavation	CY	14702	\$ 10.00	\$ 147,020.00	\$ 4.00	\$ 58,808.00
Embankment	CY	1174	\$ 12.00	\$ 14,088.00	\$ 4.00	\$ 4,696.00
Levee Embankment	CY	11022	\$ 12.00	\$ 132,264.00	\$ 4.00	\$ 44,088.00
Remove 15"/12" Dia CMP	LF	203	\$ 20.00	\$ 4,060.00	\$ 5.00	\$ 1,015.00
Remove 18" Dia CMP	LF	40	\$ 20.00	\$ 800.00	\$ 50.00	\$ 2,000.00
Remove 24" Dia CMP	LF	60	\$ 25.00	\$ 1,500.00	\$ 15.00	\$ 900.00
Remove 48" Dia CMP	LF	131	\$ 30.00	\$ 3,930.00	\$ 25.00	\$ 3,275.00
Remove 84" Dia CMP	LF	118	\$ 60.00	\$ 7,080.00	\$ 50.00	\$ 5,900.00
Remove 15" Dia Flared End Section	EA	1	\$ 200.00	\$ 200.00	\$ 100.00	\$ 100.00
Remove 24" Dia Flared End Section	EA	1	\$ 250.00	\$ 250.00	\$ 150.00	\$ 150.00
Remove 36" Dia Flared End Section	EA	1	\$ 300.00	\$ 300.00	\$ 200.00	\$ 200.00
Remove 24" Dia Flap Gate	EA	1	\$ 300.00	\$ 300.00	\$ 200.00	\$ 200.00
Remove and Salvage (to Owner) 48" Dia Flap Gate	EA	1	\$ 500.00	\$ 500.00	\$ 400.00	\$ 400.00
Remove and Salvage(to Owner) 84" Dia Flap Gate	EA	1	\$ 1,000.00	\$ 1,000.00	\$ 800.00	\$ 800.00
Remove Existing Combination Curb Inlet	EA	1	\$ 2,000.00	\$ 2,000.00	\$ 1,200.00	\$ 1,200.00
Remove Timber Pile Pipe Support	EA	1	\$ 1,000.00	\$ 1,000.00	\$ 800.00	\$ 800.00
Remove and Replace 6' Chain Link Fence w/Barbed	LF	70	\$ 50.00	\$ 3,500.00	\$ 30.00	\$ 2,100.00
Remove and Replace Pavement	SY	30	\$ 100.00	\$ 3,000.00	\$ 35.00	\$ 1,050.00
Flowable Concrete for Pipe Abandonment	CY	7	\$ 300.00	\$ 2,100.00	\$ 115.00	\$ 805.00
Type "A" Single Inlet w/Cast Iron Curb Inlet	EA	1	\$ 5,000.00	\$ 5,000.00	\$ 3,500.00	\$ 3,500.00
48" Dia Manhole	EA	1	\$ 4,000.00	\$ 4,000.00	\$ 2,500.00	\$ 2,500.00
Tap Existing Area Inlet	EA	2	\$ 1,000.00	\$ 2,000.00	\$ 900.00	\$ 1,800.00

Remaining Culverts

Contractor			Nelson & Rock Contracting, Inc		Engineer's Opinion of Costs	
Item	Unit	Total	Unit Price	Extension	Unit Cost	Extension
18" Dia Solid Wall HDPE	LF	214	\$ 65.00	\$ 13,910.00	\$ 50.00	\$ 10,700.00
20" Dia Solid Wall HDPE	LF	181	\$ 70.00	\$ 12,670.00	\$ 50.00	\$ 9,050.00
20" Dia HDPE Sliplining w/Grout	LF	572	\$ 120.00	\$ 68,640.00	\$ 145.00	\$ 82,940.00
30" Dia HDPE Sliplining w/Grout	LF	178	\$ 150.00	\$ 26,700.00	\$ 245.00	\$ 43,610.00
24" Dia CMP	LF	20	\$ 100.00	\$ 2,000.00	\$ 80.00	\$ 1,600.00
60" Dia RCP	LF	124	\$ 600.00	\$ 74,400.00	\$ 500.00	\$ 62,000.00
96" Dia RCP	LF	152	\$ 1,700.00	\$ 258,400.00	\$ 500.00	\$ 76,000.00
24" Concrete Joint Block	EA	1	\$ 1,000.00	\$ 1,000.00	\$ 1,500.00	\$ 1,500.00
60" Dia Concrete Collar	EA	1	\$ 5,000.00	\$ 5,000.00	\$ 1,000.00	\$ 1,000.00
96" Dia Concrete Collar	EA	1	\$ 90,000.00	\$ 90,000.00	\$ 1,500.00	\$ 1,500.00
18" Dia Metal Flared End Section w/Taper Sleeve	EA	1	\$ 1,000.00	\$ 1,000.00	\$ 400.00	\$ 400.00
24" Dia Galvanized Steel Flared End Section	EA	2	\$ 500.00	\$ 1,000.00	\$ 350.00	\$ 700.00
36" Dia Galvanized Steel Flared End Section	EA	1	\$ 800.00	\$ 800.00	\$ 750.00	\$ 750.00
60" Dia RCP Flared End Section	EA	1	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00	\$ 6,000.00
96" Dia RCP Sloped End Section	EA	1	\$ 21,000.00	\$ 21,000.00	\$ 6,000.00	\$ 6,000.00
Remove, Recondition and Reinstall 24" Dia Flap Gate	EA	1	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00	\$ 1,000.00
24" Dia Flap Gate	EA	1	\$ 1,500.00	\$ 1,500.00	\$ 2,000.00	\$ 2,000.00
21" Dia Flap Gate	EA	1	\$ 1,400.00	\$ 1,400.00	\$ 1,800.00	\$ 1,800.00
Remove and Reinstall 24" Dia Flap Gate	EA	1	\$ 800.00	\$ 800.00	\$ 2,000.00	\$ 2,000.00
24" Concrete Joint Block	EA	2	\$ 2,000.00	\$ 4,000.00	\$ 1,500.00	\$ 3,000.00
60" Dia Flap Gate	EA	1	\$ 6,000.00	\$ 6,000.00	\$ 3,000.00	\$ 3,000.00
96" Dia Flap Gate	EA	1	\$ 9,000.00	\$ 9,000.00	\$ 5,500.00	\$ 5,500.00
Sheet Pile	SF	528	\$ 60.00	\$ 31,680.00	\$ 40.00	\$ 21,120.00
Single Timber Pile Pipe Support	EA	4	\$ 4,000.00	\$ 16,000.00	\$ 2,900.00	\$ 11,600.00
Double Timber Pile Pipe Support	EA	1	\$ 6,000.00	\$ 6,000.00	\$ 5,000.00	\$ 5,000.00
BP-R22 Timber Pile Pipe Supports	EA	1	\$ 11,000.00	\$ 11,000.00	\$ 14,500.00	\$ 14,500.00
BP-R24 Timber Pile Pipe Supports	EA	1	\$ 12,000.00	\$ 12,000.00	\$ 9,000.00	\$ 9,000.00
6" Crushed Rock Surfacing	SY	803	\$ 12.00	\$ 9,636.00	\$ 7.00	\$ 5,621.00
Class "C" RipRap	TN	2047	\$ 55.00	\$ 112,585.00	\$ 60.00	\$ 122,820.00

Remaining Culverts

Contractor			Nelson & Rock Contracting, Inc		Engineer's Opinion of Costs	
Item	Unit	Total	Unit Price	Extension	Unit Cost	Extension
Class "B" RipRap	TN	458	\$ 60.00	\$ 27,480.00	\$ 50.00	\$ 22,900.00
SWPPP Measures	LS	1	\$ 10,000.00	\$ 10,000.00	\$ 19,600.00	\$ 19,600.00
Wetland Seeding	AC	0.07	\$ 10,000.00	\$ 700.00	\$ 2,000.00	\$ 140.00
Seeding	AC	7.2	\$ 5,000.00	\$ 36,000.00	\$ 700.00	\$ 5,040.00
TOTAL				\$ 1,317,576.00	TOTAL	\$ 817,207.00

Total for all Culverts \$ 1,683,688.50

\$1,143,842.25



Nelson & Rock

Contracting, Inc.

23565 Highway K45 Onawa, IA 51040

Phone: (712) 423-1065 Fax: (712) 423-2572

Earthwork
Demolition
Pile Driving
Equipment Rental
Bridges & Structures
Rip Rap

4-27-16

ATTN: MIKE SOTAK, P.E.

RE: BIG PAPIO LEVEE CULVERTS

EQUIP LIST

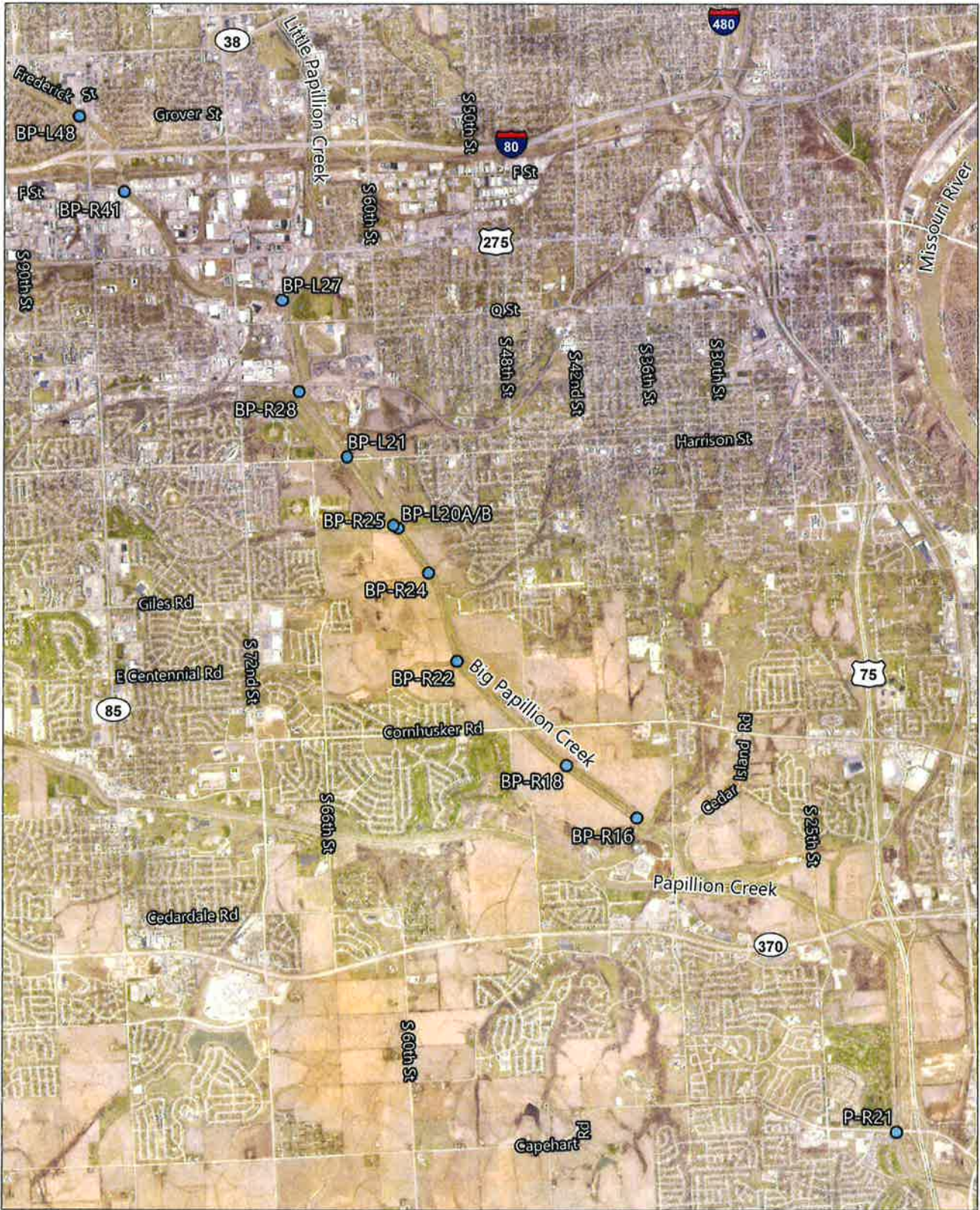
- 1 2 C.Y. EXCAVATOR 2 YEARS OLD
- 1 2 C.Y. EXCAVATOR 5 YEARS OLD
- 1 200 HP. DOZER 12 YEARS OLD
- 1 4 C.Y. LOADER 8 YEARS OLD
- 2 1 YD SKIDLOADERS 2 YEARS OLD
- 1 1/2 YD MINI EXCAVATOR 1 YEAR OLD
- 1 DOUBLE DRUM ROLLER 20 YEARS OLD
- 2 END DUMP 10 YD TRUCKS

START PROJECT JULY 15 COMPLETE MAY 15

OUR CO. DOES 1.5 TO 2 MILLION PER YEAR

MOSTLY IOWA DOT PROJECTS

SUB: NIEWOHRER CONST



Location Map - Figure 1
 Big Papio Levee Culverts Project
 Papio-Missouri River NRD
 Douglas and Sarpy County, NE

