

Agenda Item: 8.

Memorandum

To: Programs, Projects, and Operations Subcommittee
From: Lori Ann Laster, Stormwater Management Engineer
Date: November 4, 2013
Re: Papio Dam Site 15A Interlocal Agreement with Omaha Public Power District for Power Pole Relocation

As a result of the construction of Papio Dam Site 15A, a Omaha Public Power District (OPPD) transmission line and a residential distribution line will be affected by the reservoir.

As shown on the attached map, there is an existing transmission line that crosses the proposed reservoir. Staff and the District's consultant, HDR Engineering, Inc., have met with OPPD staff on several occasions to discuss clearance requirements between the transmission lines and the water surface. In order to comply with the National Electric Code and U.S. Army Corps of Engineers guidelines for power poles crossing a water body, the lowest part of the transmission line must be set at least 45 feet above the auxiliary spillway elevation. In order to meet the clearance requirement, 6 existing poles will be replaced with 4 taller poles and associated foundation structures.

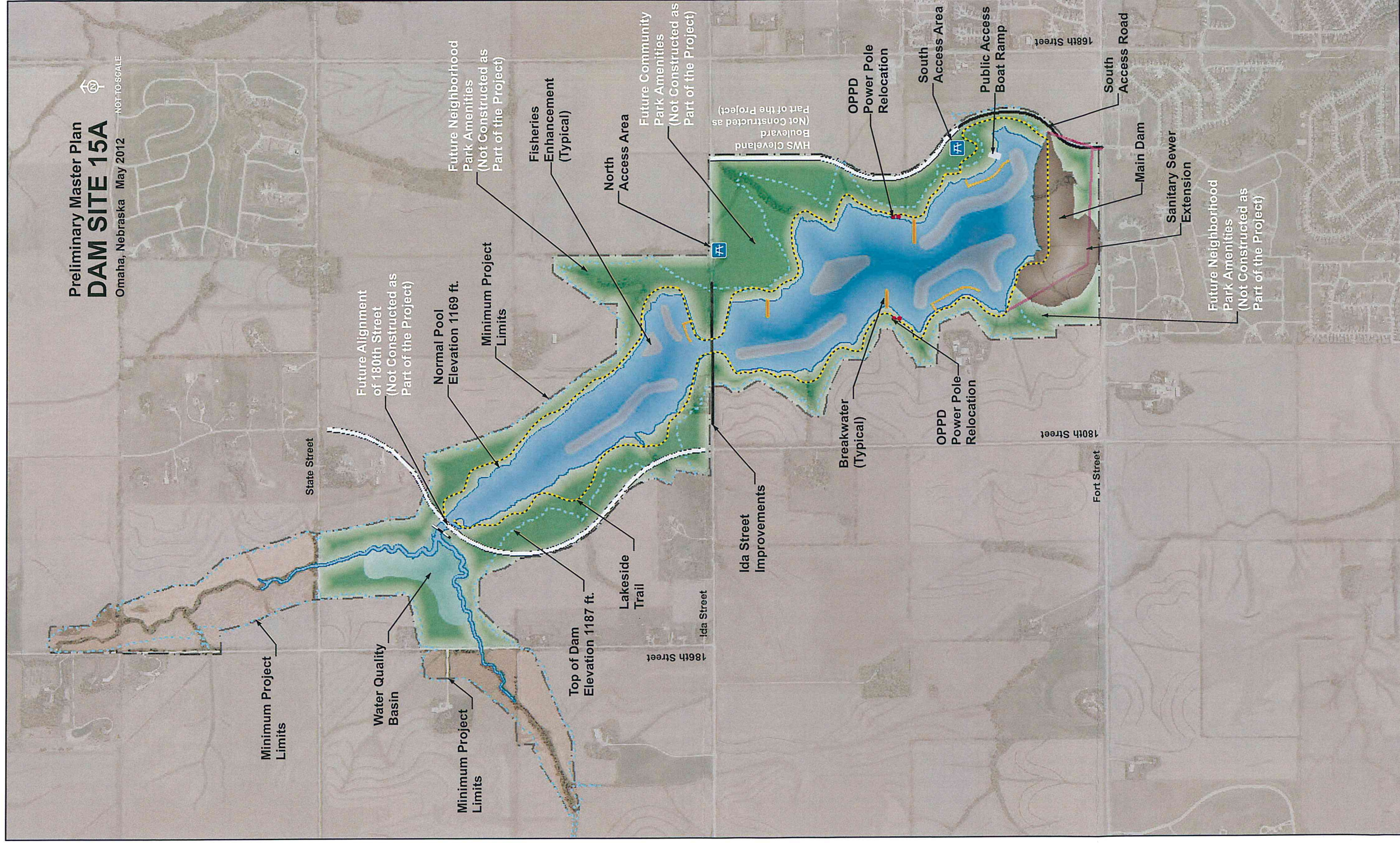
A private residence at 17520 Ida Street currently has an overhead distribution line that will be inundated by the reservoir. This line will need to be replaced by an underground distribution line.

These items are considered to be project costs and the District will need to reimburse OPPD for materials and labor. The total cost for the replacement of the transmission line structures and relocation of the residential overhead distribution line is \$2,038,240.37.

Management recommends that the Subcommittee recommend to the Board that the General Manager be authorized to execute the attached agreement between the District and Omaha Public Power District for relocation of overhead transmission facilities and replace overhead distribution with an underground line at 17520 Ida Street for an amount not to exceed \$2,038,240.37, subject to changes deemed necessary by the General Manager and approval as to form by District legal counsel.

Preliminary Master Plan
DAM SITE 15A

Omaha, Nebraska May 2012 NOT TO SCALE



A G R E E M E N T

BETWEEN
THE OMAHA PUBLIC POWER DISTRICT
AND THE
PAPIO NRD

**RELOCATON OF OVERHEAD TRANSMISSION FACILITIES IN EASEMENT
AND REPLACE OVERHEAD DISTRIBUTION WITH UNDERGROUND ON PRIVATE
PROPERTY AT 17520 IDA STREET**

**P-MR NRD Dam Site 15A
Omaha, NE**

168th & Fort Street

A G R E E M E N T

**P-MR NRD 15A Dam Site 15A
168th & Fort Street Omaha, NE**

**OMAHA PUBLIC POWER DISTRICT
CITY OF OMAHA, NEBRASKA
RELOCATION OF OVERHEAD TRANSMISSION FACILITIES IN EASEMENT**

THIS AGREEMENT is made and entered into by and between the Omaha Public Power District hereinafter referred to as the "Utility" and THE Papio NRD hereinafter referred to as the "NRD"

WITNESSETH:

WHEREAS, the NRD has plans for the construction of new Dam Site 15A.

WHEREAS, said construction will be undertaken under the project designation P-MR NRD Dam Site 15A.

WHEREAS, the agreement for the Project contemplates construction for the relocation of the Utility's overhead transmission facilities in easement that run east and west and located ¼ mile north of Fort Street and the overhead distribution at 17520 Ida Street the Utility, as set forth in the Project plans and specifications, and

WHEREAS, the Utility's overhead transmission and distribution facilities are located within private property and will be relocated, with the understanding that the NRD will pay the Utility 100 percent of all overhead transmission facilities relocation and distribution facilities at 17520 Ida Street in private property and construction engineering costs incurred in connection with the Project.

NOW THEREFORE, in consideration of the foregoing recitals and the promises and covenants herein, the parties hereto agree as follows:

SECTION 1. The Utility has designed overhead transmission and distribution facility relocations according to the Utility's specifications and as set forth in the Project plans and specifications.

SECTION 2. The NRD shall pay the Utility 100 percent of the actual and reasonable cost of constructing the relocations of all overhead transmission and distribution

facilities at 17520 Ida Street in private property plus any additional required construction engineering. The cost is estimated to be \$2,038,240.37 for the overhead transmission and distribution relocations.

SECTION 3. The NRD shall make payment to the Utility within thirty (30) days after receipt of billing from the Utility. When the work is completed and all costs accumulated, the Utility will submit a final statement to the NRD showing the refund due or payment due from the NRD. The parties agree to make final settlement within thirty (30) days after the NRD receives the final statement.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed by their proper officials there unto duly authorized as of the dates below indicated.

EXECUTED by the Utility this 26th day of September, 2013

ATTEST:

OMAHA PUBLIC POWER DISTRICT


Lead Utilities Coordinator Date

EXECUTED by the Papio NRD this _____ day of _____, 20____

ATTEST:

The Papio NRD

Clerk Date

by: Official Date

APPROVED AS TO FORM:

NRD Official Date

Omaha Public Power District

Rehabilitation Estimate

In

Douglas County

Papio NRD
P-MR NRD Dam Site 15A

Omaha, NE

168th & Fort Street

Estimated Cost of Facilities Relocation

Overview of work:

Transmission

Line 73 (wood “H” frame line)

345 KV, Circuit 3424

Remove 6 existing structures

Install 4 new steel structures

Line 155 (tubular steel pole line)

161 KV, Circuit 1598

Remove 6 existing structures

Install 4 new structures (all tubular steel)

Labor & Material

Line 73 (wood "H" frame)

Budget Estimated:

| | |
|---------------------|---------------------|
| Material: | \$300,000.00 |
| Foundations: | \$200,000.00 |
| Construction Labor: | <u>\$200,000.00</u> |
| Subtotal: | \$700,000.00 |

Line 155 (tubular steel pole line)

Budget Estimated:

| | |
|---------------------|---------------------|
| Material: | \$300,000.00 |
| Foundations: | \$300,000.00 |
| Construction Labor: | <u>\$200,000.00</u> |
| Subtotal: | \$800,000.00 |

| | |
|-------------------|----------------|
| Subtotal 2 lines | \$1,500,000.00 |
| Overheads (20%) | \$300,000.00 |
| Contingency (10%) | \$180,000.00 |

Additional easement cost: \$ 0.00

NRD will grant OPPD additional easement area at zero cost.

NRD will compensate adjacent landowners (if required) for additional OPPD easement area.

Total reimbursement due OPPD

For transmission work: \$1,980,000.00

Prepared by Kent M. Herzog, P.E., PMP
Manager, Transmission Engineering

Distribution

Replace existing 8,000 volt overhead single phase primary line that feeds 17520 Ida Street on private property with a new plow installed 8,000 volt underground single phase primary line along new drive east from Ida Street to farm residence.

Overhead line must be removed due to planned lake.

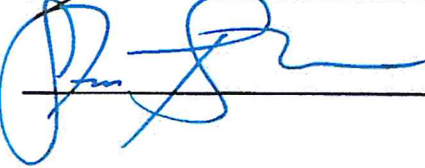
Labor & Material

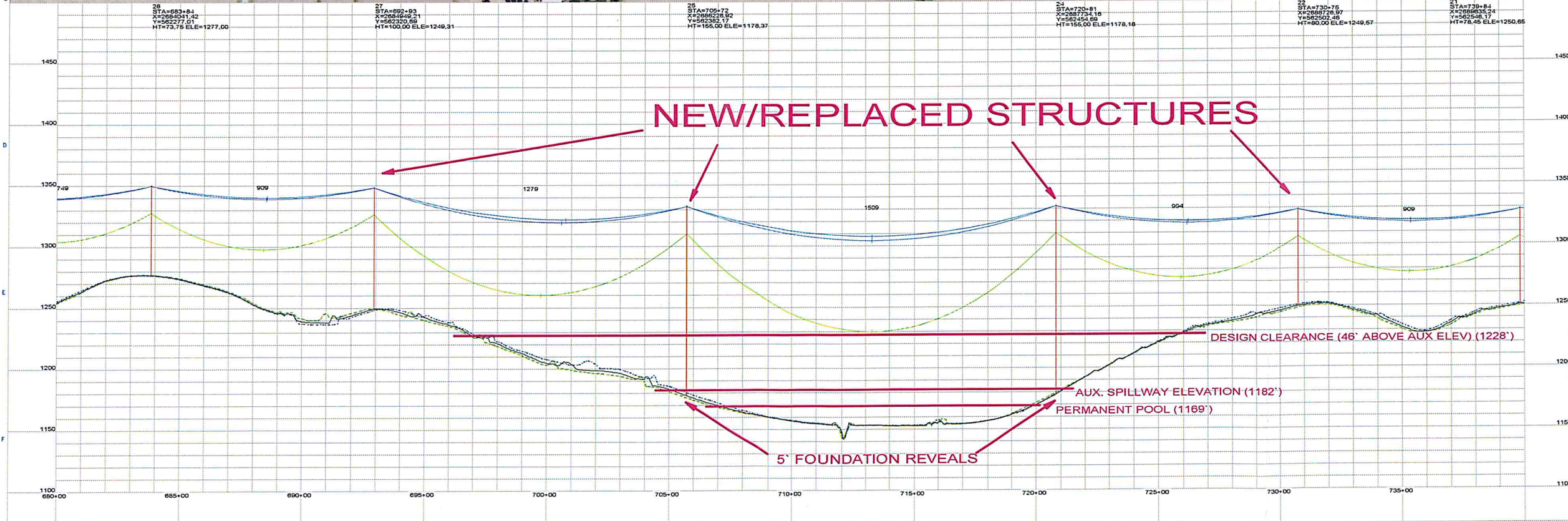
Distribution Work

| | |
|--|-----------------------|
| Material, install underground: | \$29,146.17 |
| Labor, install underground: | \$8,756.45 |
| Material, remove overhead: | \$0 |
| Labor, remove overhead: | \$3,721.58 |
| Engineering Costs 6%: | \$2,497.45 |
| Overheads: | \$14,118.72 |
| Total reimbursement due OPPD | |
| Distribution work: | \$58,240.37 |
| Total reimbursement due OPPD | |
| Distribution & Transmission work: | \$2,038,240.37 |

Utilities Coordinator:

Noted: Joe Catillon Dated: 9/26/13

Noted:  Dated: 9/26/13



PHOSING SHOWN IN DIRECTION OF INCREASING STATION

COORDINATES: NAD83 (2007), NAVD83, NEBRASKA (2620)

AERIAL PHOTO DATE:

31 - 12 KV, 7#6 ALUMOWELD, 7#6 ALUMOWELD 7 STRANDS ALUMOWELD - ADAPTED FROM 1970'S PUBLICLY AVAILABLE DATA, RULING SPAN 1004 (FT), DISPLAYED UPLIFT CREEP 2894 (LBS)

31 - 12 KV, 7#6 ALUMOWELD, 7#6 ALUMOWELD 7 STRANDS ALUMOWELD - ADAPTED FROM 1970'S PUBLICLY AVAILABLE DATA, RULING SPAN 1004 (FT), DISPLAYED UPLIFT CREEP 3047 (LBS)

TRANSMISSION PLAN & PROFILE
LINE 73 CIRCUIT 3424 B

Omaha Public Power District

B 24SEP2013REVISED DESIGN-TO ADDRESS REVISED NRD CLEARANCE REQUIREMENTS

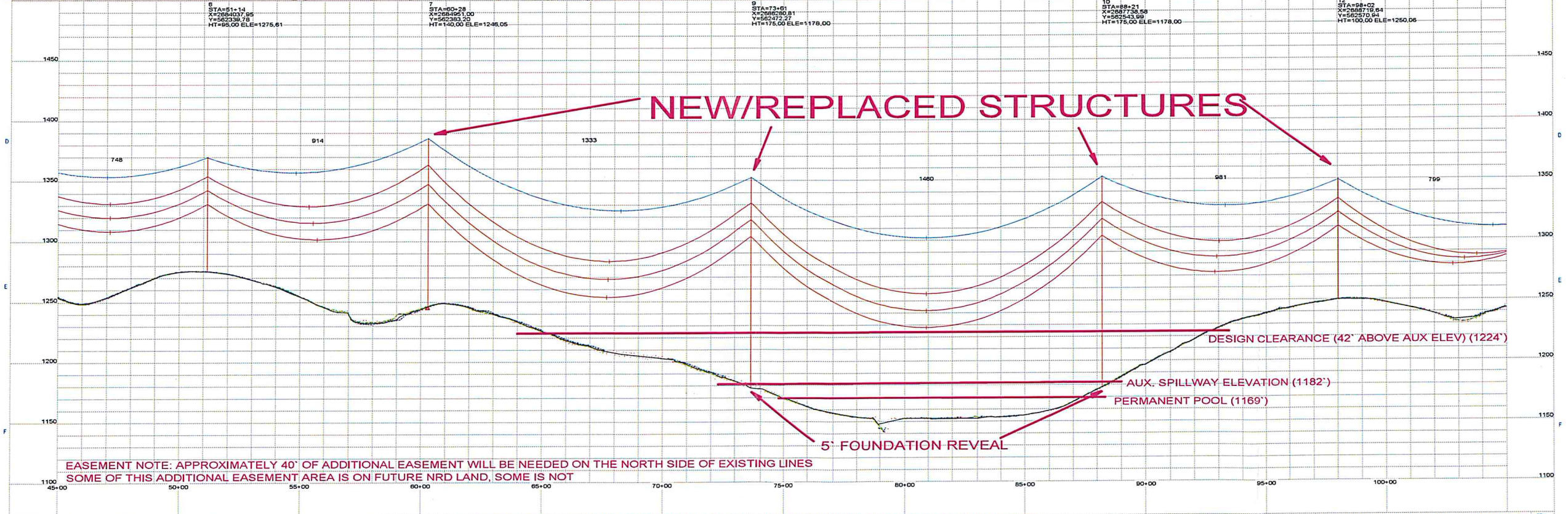
A 19SEP2011PRELIM. RELOCATION DESIGN FOR P-MR NRD DAM SITE 15A

| NO | DATE | REVISIONS AND RECORD OF ISSUE | ENG | DRW | CHK | APP |
|----|------|-------------------------------|-----|-----|-----|-----|
| | | | | | | |

200.0 FT. HORIZ. SCALE

40.0 FT. VERT. SCALE

VIRE DATA



| | | | |
|--|-----------|---|-----------------|
| B 24SEP2013 REVISED DESIGN-TO ADDRESS REVISED NRD CLEARANCE REQUIREMENTS | | A 19SEP2011 PRELIM. RELOCATION DESIGN FOR P-MR NRD DAM SITE 15A | |
| NO | DATE | REVISIONS AND RECORD OF ISSUE | ENG DRW CHK APP |
| 1 | 24SEP2013 | REVISED DESIGN-TO ADDRESS REVISED NRD CLEARANCE REQUIREMENTS | |
| 2 | 19SEP2011 | PRELIM. RELOCATION DESIGN FOR P-MR NRD DAM SITE 15A | |

PHASING SHOWN IN DIRECTION OF INCREASING STATION

COORDINATES: NAD83 (2011), NAVD83, NEBRASKA (2008)

AERIAL PHOTO DATE:

200.0 FT. HORIZ. SCALE

40.0 FT. VERT. SCALE

WIRE DATA

3-13, 0KV, 0FOW, OPT-0V, 59ACR-51-32, 1-1140 PULING SPAN 1078 (FT) DISPLAYED 20 COLO UPLIFT INITIAL 2596 (LBS)

3-13, 0KV, T2HAWK, 2-477.0 MCM 267 ACSR-T2 HAWK, RULING SPAN 1078 (FT), 3 PHASES, DISPLAYED HIGH TEMP 212 CREEP 4525 (LBS)

TRANSMISSION PLAN & PROFILE
LINE 155 CIRCUIT 1598 B

OPPD
Omaha Public Power District

your energy partner