

**EAGLE MOUNTAIN CITY
CITY COUNCIL MEETING
OCTOBER 15, 2013**

TITLE:	Change Order 1 – 2013 Construction 12.47kV Main Feeders and Gas Lines		
FISCAL IMPACT:	\$19,368.45		
APPLICANT:	Adam Ferre, Energy Department Director		
GENERAL PLAN DESIGNATION	CURRENT ZONE	ACREAGE	COMMUNITY
N/A	N/A	N/A	N/A

NOTICES:

- Posted in 2 public places
- Posted on City webpage
- Notice to newspapers

REQUIRED FINDINGS:

Vote: N/A

Prepared By:
Steven Olsen

NOTES/COMMENTS:

RECOMMENDATION:

The Energy Director recommends that Council approve a change order to Niels Fugal Sons Company in the amount of \$19,368.45 for the 2013 Construction 12.47kV Main Feeders and Gas Lines project.

BACKGROUND

When Porter’s Crossing was extended to Pony Express Parkway, the design of that project called for a 4” gas line and an empty 6” electrical conduit for future use. At that time, the City opted not to install those utilities. Our design for the current project along Porter’s Crossing assumed those utilities were in place. It is necessary to install the missing 6” conduit and 4” gas line for the rest of that project to be usable.

Additionally, we now have the master plan for Evans Ranch available. This will allow us to delete some conduit and make other minor revisions to better accommodate this development.

When the project was originally bid, the contractors provided unit pricing for each item. The revised prices for this change order come from those original unit costs.

Eagle Mountain City

2013 Construction – 12.47 kV Electric Main Feeders and Gas Lines Original Bid

I. ELECTRIC BID SCHEDULE – KIOWA VALLEY FEEDER CAPACITY UPGRADE

			Niels Fugal Sons Co.	
Item No.	Description	Qty	Unit Price	Total Amount
E1.	Mob and Demob, Insurance, Bond, Etc.	1 lot	\$9,000.00	\$9,000.00
E2.	UG Cable: A. 750 kcmil Al. 15 kV B. #2 AWG Al. 15 kV	7,053 feet 750 feet	\$2.18 \$2.67	\$15,375.54 \$2,002.50
E3.	PVC Conduit and Casings: A. 4" Schedule 40 PVC Conduit B. 6" Schedule 40 PVC Conduit C. 4" Schedule 40 PVC Conduit Casing D. 6" Schedule 40 PVC Conduit Casing E. 8" Casing	3,625 feet 3,230 feet 380 feet 380 feet 280 feet	\$6.10 \$9.77 \$5.50 \$8.53 \$13.13	\$22,112.50 \$31,557.10 \$2,090.00 \$3,241.40 \$3,676.40
E4.	Major Equipment: A. Pad Mounted Swgr PME-11 B. Ground Sleeve Pad Mounted Swgr C. Switchgear Ground Sleeve Cover D. 600 A 15 kV Three Three Phase Sect E. Ground Sleeve 600 A 15 kV Sect	2 each 6 each 4 each 8 each 4 each	\$915.00 \$400.16 \$240.34 \$677.10 \$307.44	\$1,830.00 \$2,400.96 \$961.36 \$5,416.80 \$1,229.76
E5.	Miscellaneous: A. 600 Amp 15 kV LB Jct - 2 Way B. 600 Amp Non LB Elbow - 750 Al. 15 kV URD Cable C. 600 Amp 15 kV Insulating Cap D. 200 Amp 15 kV Insulating Cap E. Grounding – Switchgear and Sectionalizers F. Cable Tagging G. 600 Amp Three 3 Phase FCI H. 200 Amp Three 1 Phase FCI	24 each 54 each 9 each 12 each 10 each 1 lot 9 each 6 each	\$95.16 \$251.32 \$19.52 \$19.52 \$434.32 \$158.60 \$142.74 \$264.74	\$2,283.84 \$13,571.28 \$175.68 \$234.24 \$4,343.20 \$158.60 \$1,284.66 \$1,588.44
TOTAL BID AMOUNT (FIGURES):				\$124,534.26

II. NATURAL GAS BID SCHEDULE - KIOWA VALLEY FEEDER CAPACITY UPGRADE

			Niels Fugal Sons Co.	
No.	Description	Qty	Unit Price	Total Amount
G1.	Casings: A. 6" Schedule 40 PVC Casing	170 feet	\$7.35	\$1,249.50
G2.	Polyethylene Gas Pipe: A. 4" Polyethylene Gas Pipe	3,420 feet	\$4.22	\$14,432.40
G3.	Gas Pipe Fusion Fittings	1 lot	\$7,600.00	\$7,600.00
G4.	Miscellaneous: A. Tracer Wire and Fittings - Yellow Insulation B. Pressure Testing	3,500 feet 1 lot	\$0.18 \$1,500.00	\$630.00 \$1,500.00
TOTAL BID AMOUNT (FIGURES):				\$25,411.90

III. TRENCHING BID SCHEDULE - KIOWA VALLEY FEEDER CAPACITY UPGRADE

			Niels Fugal Sons Co.	
No.	Description	Qty	Unit Price	Total Amount
T1.	Trench and Backfill: A. Natural Gas Pipe B. Electric Conduit	3,420 ft 3,625 ft	\$9.55 \$11.22	\$32,661.00 \$40,672.50
TOTAL BID AMOUNT (FIGURES):				\$73,333.50

TOTAL PROJECT AMOUNTS

\$223,279.66

Eagle Mountain City

2013 Construction – 12.47 kV Electric Main Feeders and Gas Lines

Revised Bid

I. ELECTRIC BID SCHEDULE – KIOWA VALLEY FEEDER CAPACITY UPGRADE

			Niels Fugal Sons Co.	
Item No.	Description	Qty	Unit Price	Total Amount
E1.	Mob and Demob, Insurance, Bond, Etc.	1 lot	\$9,000.00	\$9,000.00
E2.	UG Cable: A. 750 kcmil Al. 15 kV B. #2 AWG Al. 15 kV	7,053 feet 750 feet	\$2.18 \$2.67	\$15,375.54 \$2,002.50
E3.	PVC Conduit and Casings: A. 4" Schedule 40 PVC Conduit B. 6" Schedule 40 PVC Conduit C. 4" Schedule 40 PVC Conduit Casing D. 6" Schedule 40 PVC Conduit Casing E. 8" Casing	360 feet 4,765 feet 380 feet 210 feet 305	\$6.10 \$9.77 \$5.50 \$8.53 \$13.13	\$2,196.00 \$46,554.05 \$2,090.00 \$1,791.30 \$4,004.65
E4.	Major Equipment: A. Pad Mounted Swgr PME-11 B. Ground Sleeve Pad Mounted Swgr C. Switchgear Ground Sleeve Cover D. 600 A 15 kV Three Three Phase Sect E. Ground Sleeve 600 A 15 kV Sect	2 each 5 each 3 each 8 each 5 each	\$915.00 \$400.16 \$240.34 \$677.10 \$307.44	\$1,830.00 \$2,400.96 \$961.36 \$5,416.80 \$1,229.76
E5.	Miscellaneous: A. 600 Amp 15 kV LB Jct - 2 Way B. 600 Amp Non LB Elbow - 750 Al. 15 kV URD Cable C. 600 Amp 15 kV Insulating Cap D. 200 Amp 15 kV Insulating Cap E. Grounding – Switchgear and Sectionalizers F. Cable Tagging G. 600 Amp Three 3 Phase FCI H. 200 Amp Three 1 Phase FCI	24 each 54 each 9 each 12 each 10 each 1 lot 9 each 6 each	\$95.16 \$251.32 \$19.52 \$19.52 \$434.32 \$158.60 \$142.74 \$264.74	\$2,283.84 \$13,571.28 \$175.68 \$234.24 \$4,343.20 \$158.60 \$1,284.66 \$1,588.44
TOTAL BID AMOUNT (FIGURES):				\$118,492.86

II. NATURAL GAS BID SCHEDULE - KIOWA VALLEY FEEDER CAPACITY UPGRADE

			Niels Fugal Sons Co.	
No.	Description	Qty	Unit Price	Total Amount
G1.	Casings: A. 6" Schedule 40 PVC Casing	195 feet	\$7.35	\$1,433.25
G2.	Polyethylene Gas Pipe: A. 4" Polyethylene Gas Pipe	4,310 feet	\$4.22	\$18,188.20
G3.	Gas Pipe Fusion Fittings	1 lot	\$7,600.00	\$7,600.00
G4.	Miscellaneous: A. Tracer Wire and Fittings - Yellow Insulation B. Pressure Testing	4,500 feet 1 lot	\$0.18 \$1,500.00	\$810.00 \$1,500.00
TOTAL BID AMOUNT (FIGURES):				\$29,531.45

III. TRENCHING BID SCHEDULE - KIOWA VALLEY FEEDER CAPACITY UPGRADE

			Niels Fugal Sons Co.	
No.	Description	Qty	Unit Price	Total Amount
T1.	Trench and Backfill: A. Natural Gas Pipe B. Electric Conduit	4,310 ft 4,975 ft	\$9.55 \$11.22	\$41,160.50 \$53,463.30
TOTAL BID AMOUNT (FIGURES):				\$94,623.80

TOTAL PROJECT AMOUNTS

\$242,648.11

