

Date of Action:	9.8.2014	
Approved <input checked="" type="checkbox"/>	Denied <input type="checkbox"/>	
By:	[Signature]	

CITY COUNCIL ACTION MEMORANDUM

AM No. 14-35: Authorizing utility relocations for Mack Drive Extension/Clapp Street Improvements in the amount of \$213,660 for Matanuska Telephone Association and \$25,383 for Enstar Natural Gas Company.

Originator: Public Works Director

Date: August 26, 2014

Agenda of: September 8, 2014

Route to:	Department Head	Signature	Date
X	Public Works Director	[Signature]	8/26/14
X	Finance Director	[Signature]	8-26-14
X	Deputy Administrator	[Signature]	8/26/14
X	City Clerk	[Signature]	8.26.14

Reviewed by Mayor Verne E. Rupright: [Signature]

Fiscal Impact: yes \$239,043 **Funds Available:** yes

Account name/number: S. Mack Dr. Reapp-State/160-4320-432-45-65

Attachments: MTA Exhibit A (10 pages)
Enstar Exhibit A (6 pages)

Summary Statement: The attached exhibits outline the estimated cost to relocate portions of MTA and Enstar utilities along the alignment for the Mack Drive Extension/Clapp Street improvement project. The utilities need to be relocated to allow for construction of the new road. The City's legislative grant for this project is proposed to fund the utility relocations in support of the Borough's Road Bond package that is funding the construction contract. The Borough has awarded the construction contract to Bristol Environmental Services in the amount of \$3.9 million. Their work will begin this fall with the clearing of trees and stumps. The earthwork is scheduled to begin next spring with the road to be paved and open for traffic by September 2015.

Staff Recommendation: Adopt AM No. 14-35.

EXHIBIT "A"
SUMMARY OF ESTIMATE FOR ADJUSTMENT OF FACILITIES REQUIRED BY ROAD CONSTRUCTION

The **MATANUSKA TELEPHONE ASSOCIATION INC**, estimate of work and materials required in connection with Project No.: **35403**,
Project Name: **Mack Drive Extension/Clapp Street Improvements** Utility Work Order No. **16563**,
Agreement No. **35403-2014-04**

	BOROUGH PARTICIPATION	UTILITY COST NON-REIMBURS.	TOTALS
PART I. UTILITY WORK			
RIGHT OF WAY (Acquisition Only)	-	-	-
Preliminary Engineering	33,333		33,333
Preliminary Engineering Overhead	-		-
TOTAL PRELIMINARY ENGINEERING	33,333	-	33,333
Construction Engineering	2,688		2,688
Construction Engineering Overhead	-		-
TOTAL CONSTRUCTION ENGINEERING	2,688	-	2,688
Construction Labor	126,056		126,056
Materials & Supplies	17,432		17,432
Materials Handling Charges	1,302		1,302
Transportation & Equipment	-		-
Contract Construction	32,410		32,410
DOL Fee 1% of Contract Construction	324	-	324
Miscellaneous Expenses	115		115
Construction Subtotal	177,639	-	177,639
Construction Overhead	-		-
GROSS CONSTRUCTION COSTS	177,639	-	177,639
(Credits)			-
Betterments	-		-
Non-Reimbursable	-		-
TOTAL CREDITS	-	-	-
NET CONSTRUCTION COSTS	177,639	-	177,639
TOTAL UTILITY WORK	213,660	-	213,660

PART II. BOROUGH WORK FOR UTILITY			
Preliminary Engineering @ 5%			-
Contract Construction			-
Construction Engineering @ 15%			-
TOTAL BOROUGH WORK FOR UTILITY	-	-	-
TOTAL ESTIMATED RELOCATION COSTS (Parts I & II)	213,660	-	213,660

UTILITY CONCURRENCE, BY: Robby Nash SUBMITTED BY: _____
DATE: 8/20, 2014 TITLE: _____



SUMMARY OF ESTIMATED COSTS

Mack Drive Extension / Clapp Street Improvements
 Matanuska Telephone Association, Inc.
 MTA Work Orders: 16563

REIMBURSABLE RELOCATION COSTS

57282 PRELIMINARY ENGINEERING

OSP Preliminary Engineering (240 hrs @ \$134.41/hr)	\$ 32,257.76	
ROW (8 hrs @ \$134.41/hr)	\$ 1,075.26	
Total Preliminary Engineering		\$ 33,333.02

57720 CONSTRUCTION ENGINEERING

OSP Construction Engineering (12 hrs @ \$134.41/hr)	\$ 1,612.89	
Survey (8 hrs @ \$134.41/hr)	\$ 1,075.26	
Total Construction Engineering		\$ 2,688.15

57719 CONSTRUCTION COSTS

Construction Labor		
Placing Labor (637.34 Hrs x \$167.80 per/hr)	\$ 109,417.41	
Splicing Labor (98.14 Hrs x \$169.54 per/hr)	\$ 16,638.74	
Materials & Supplies		
Placing Materials	\$ 17,281.00	
Splicing Materials	\$ 150.64	
Material Overhead (18,691.34 x .0747)	\$ 1,302.14	
Contract Construction		
Clearing - R1-15	\$ 1,218.00	
Bore - BM 60 ()	\$ 31,192.00	
Cut & Patch Asphalt	\$ -	
Traffic Control	\$ -	
Misc.Expenses	\$ 115.00	
Total Construction Costs		\$ 177,314.93
DOL fee of 1% of Contract Construction (\$5,000 max)		\$ 324.10
Less Credits		\$ -

TOTAL ESTIMATED RELOCATION COSTS: \$ 213,660.20

NOTE: The bore item BM 60(5.3) was increased to 175 feet to meet ADOT additional depth requirement crossing KGB.
 An additional \$7,500 was added to placing labor to cover additional depth trench crossing the new alignment of Clapp Road.

Summary of Estimate for MTA Relocation Work

Mack Drive Extension / Clapp Street Improvements
 Matanuska Telephone Association, Inc.
 MTA Work Orders: 16563

Placing - Reimbursable Costs

Func Code	Description	Est qty Labor Hrs	Labor \$/unit	Total Labor	Est qty Material	Material \$/unit	Total Materials
BA22	Post, Wood, Rect, 3.5x4.5in x 8ft	2.50	\$ 166.28	\$ 415.71	5	\$ 25.79	\$ 128.95
BD-4 AH	Pedestal, cable, CAD-8, GST, (Max 400 PR)	9.00	\$ 166.28	\$ 1,496.56	3	\$ 85.40	\$ 256.20
BD-4 AH	Pedestal, cable, CAD-12, GST, (Max 900 PR)	9.00	\$ 166.28	\$ 1,496.56	3	\$ 150.58	\$ 451.74
BD-7	Pedestal, cable, upcbds-300	16.00	\$ 166.28	\$ 2,660.55	4	\$ 372.31	\$ 1,489.25
BFC 200-24T	Cable 200-24 trench	13.50	\$ 166.28	\$ 2,244.84	225	\$ 2.90	\$ 652.50
BFC 25-24	Cable25-24 plowed	1.60	\$ 166.28	\$ 266.06	80	\$ 0.73	\$ 58.00
BFC 25-24T	Cable25-24 trench	5.40	\$ 166.28	\$ 897.94	90	\$ 0.73	\$ 65.25
BFC 300-24T	Cable 300-24 trench	88.20	\$ 166.28	\$ 14,666.29	1,260	\$ 3.78	\$ 4,762.80
BFC 50-24	Cable 50-24 plowed	1.00	\$ 166.28	\$ 166.28	50	\$ 1.27	\$ 63.40
BFC 50-24T	Cable 50-24 trench	35.40	\$ 166.28	\$ 5,886.47	590	\$ 1.27	\$ 748.06
BFC 600-24T	Cable 600-24 trench	53.20	\$ 166.28	\$ 8,846.33	760	\$ 6.48	\$ 4,924.80
BHF-3	Handhole Lid, 4 FT x 6 FT W/30 IN	0.00	\$ 166.28	\$ -	1	\$ 795.21	\$ 795.21
BHF-3	Handhole Wall, 4 FT x 6 FT x 42 IN D	12.00	\$ 166.28	\$ 1,995.41	1	\$ 692.65	\$ 692.65
BM 11	Marker, pedestal, ylw, 4ft, clamps	1.50	\$ 166.28	\$ 249.43	5	\$ 8.25	\$ 41.25
BM 2 5/8	Rod, Ground, 5/8 IN x 8 FT	1.00	\$ 166.28	\$ 166.28	2	\$ 10.80	\$ 21.60
BM53-1	Sign, Warning, F/O Buried Cable	0.30	\$ 166.28	\$ 49.89	1	\$ 20.42	\$ 20.42
BM 81-1	Bracket, Standoff, 8.5 inch	0.00	\$ 166.28	\$ -	8	\$ 7.00	\$ 56.00
BM 81-1	Bushing, grounding, insul 2in	4.00	\$ 166.28	\$ 665.14	2	\$ 13.57	\$ 27.14
BM 81-1	Screw, Lag, Hex, HD, 3/8 x 4 inch	0.00	\$ 166.28	\$ -	32	\$ -	\$ -
BM 81-1/E	Clamp, pipe, universal 2in	0.00	\$ 166.28	\$ -	8	\$ 1.07	\$ 8.56
BM 81-1/E	Conduit, galv. Imc, 2in x 10ft	0.00	\$ 166.28	\$ -	20	\$ 3.62	\$ 72.40
BM 81-1/E	Conduit, pvc, 2in x 10ft, sch 40	0.00	\$ 166.28	\$ -	20	\$ 0.71	\$ 14.20
BM 92-1.25D	Innerduct, 1.25in, blk/org strip	6.15	\$ 166.28	\$ 1,022.65	1,230	\$ 0.38	\$ 467.40
BM 92-1.25T	Innerduct, 1.25in, blk/org strip	0.00	\$ 166.28	\$ -	-	\$ -	\$ -
CW 12-24	Cable,bur, filled, 0012x24, alum	30.08	\$ 166.28	\$ 5,001.84	1,504	\$ 0.21	\$ 315.84
MOBP	MOBILIZATION & TRAVEL TIME	219.00	\$ 166.28	\$ 36,416.30	219	\$ -	\$ -
NPE 1-2	Down Guy (6.6M) - Existing	1.00	\$ 166.28	\$ 166.28	1	\$ -	\$ -
NPE 1-3	Down Guy (11.2M) - Existing	4.00	\$ 166.28	\$ 665.14	4	\$ -	\$ -
NPE 2-3	Overhead Guy (11.2M) - Existing	1.50	\$ 166.28	\$ 249.43	1	\$ -	\$ -
PF 2-7A	Anchor, plate, 24in, x-24, 15.4m	4.00	\$ 166.28	\$ 665.14	2	\$ 35.78	\$ 71.56
PF 2-7A	Rod, anchor, 1inx8ft, twin eye	0.00	\$ 166.28	\$ -	2	\$ 26.72	\$ 53.44
PM 11	Guard, guy, 8ft yellow, prefor	1.20	\$ 166.28	\$ 199.54	6	\$ 7.50	\$ 45.00
PM 2 A	Wire, 1c/06 AWG, bare copper	0.60	\$ 166.28	\$ 99.77	2	\$ -	\$ -
SEA 3-22	Drop, bur, filled, 0003x22, 5MFT	1.80	\$ 166.28	\$ 299.31	180	\$ 0.31	\$ 55.08
SEA 6-22	Drop, bur, filled, 0006x22, 2.5MFT	0.35	\$ 166.28	\$ 58.20	35	\$ 0.44	\$ 15.37
Strand (11.2M)	Strand, 5/16in EHS (5mft/reel)	0.00	\$ 166.28	\$ -	160	\$ -	\$ -
Strand (11.2M)	Strand, 5/16in EHS (5mft/reel)	0.00	\$ 166.28	\$ -	1,664	\$ -	\$ -
UFO-96	Cable, F/O, 96, # 22967 ZWP	43.89	\$ 166.28	\$ 7,298.22	1,330	\$ 0.68	\$ 906.93
WBD C	Pedestal rearrangement	1.50	\$ 166.28	\$ 249.43	2	\$ -	\$ -
WBH	Handhole Rearrangement	10.00	\$ 166.28	\$ 1,662.84	2	\$ -	\$ -
XBA	Remove Stub Pole	2.00	\$ 166.28	\$ 332.57	4	\$ -	\$ -
XBD	Remove pedestal (3,4, or 5)	2.00	\$ 166.28	\$ 332.57	4	\$ -	\$ -
XBFO 06	Abandon FO CA - 6 Strand	0.00	\$ 166.28	\$ -	1,635	\$ -	\$ -
XBM 81	Removal 2" x 8' riser guard	0.50	\$ 166.28	\$ 83.14	1	\$ -	\$ -
XC 12	12 PR aerial removal	16.08	\$ 166.28	\$ 2,673.85	1,608	\$ -	\$ -
XC 50	50 PR aerial removal	9.96	\$ 166.28	\$ 1,656.19	996	\$ -	\$ -
XNPE-1	Remove down guy	1.50	\$ 166.28	\$ 249.43	3	\$ -	\$ -
XSEA	Remove Aerial Drop	2.20	\$ 166.28	\$ 365.83	92	\$ -	\$ -
Total Labor Hours:		612.91					\$ 17,281.00
Total Labor Costs:			\$	101,917.41			
Total Material Costs:						\$	17,281.00

Summary of Estimate for MTA Relocation Work

Mack Drive Extension / Clapp Street Improvements
 Matanuska Telephone Association, Inc.
 MTA Work Orders: 16563

Splicing - Reimbursable Costs

Func Code	Description	Est qty Labor Hrs	Labor \$/unit	Total Labor	Est qty Material	Material \$/unit	Total Materials
BM 2C	Existing PedNew Cable bonding	1.20	\$ 169.54	\$ 203.45	4	\$ -	\$ -
BM 2D	New Ped Existing Cable bonding	0.30	\$ 169.54	\$ 50.86	1	\$ -	\$ -
BM 30-(12)	PC Stub 12 pr	0.50	\$ 169.54	\$ 84.77	1	\$ -	\$ -
BM 30-(25)	PC Stub 25 pr	4.50	\$ 169.54	\$ 762.93	9	\$ -	\$ -
BM 40	Interface Device NTWK, 06 PR	0.50	\$ 169.54	\$ 84.77	1	\$ -	\$ -
BM 40	Lug, 1/4 IN Hole, LCB6-14	0.00	\$ 169.54	\$ -	1	\$ 0.84	\$ 0.84
BM 40	Wire, 1C/06, AWG, Sranded, BLK	0.00	\$ 169.54	\$ -	15	\$ -	\$ -
BM 40	Wire, 1C/06, AWG, Sranded, Blue	0.00	\$ 169.54	\$ -	15	\$ -	\$ -
BM 50 (6/12)	Terminal 6 or 12 PR	0.50	\$ 169.54	\$ 84.77	1	\$ 14.12	\$ 14.12
HBF-1	Bur, Filled Closure (3 PR)	0.50	\$ 169.54	\$ 84.77	1	\$ -	\$ -
HBF-3	Bur, Filled Closure (25-50 PR)	1.00	\$ 169.54	\$ 169.54	1	\$ -	\$ -
HC-1	Cable splicing w/indiv. Connector	0.04	\$ 169.54	\$ 6.78	2	\$ -	\$ -
HC-3	Cable splicing w/mod	11.62	\$ 169.54	\$ 1,970.06	1,162	\$ -	\$ -
HO-1	Fusion, One Fiber (FO)	6.00	\$ 169.54	\$ 1,017.25	24	\$ -	\$ -
HR1-3	HR1 Aerial Term Straight 3in	5.00	\$ 169.54	\$ 847.70	2	\$ 67.84	\$ 135.68
MOBP	MOBILIZATION & TRAVEL TIME	25.00	\$ 169.54	\$ 4,238.52	25	\$ -	\$ -
PEDS-C	Splice Set-up BD-3, 4, 5 & 7	4.50	\$ 169.54	\$ 762.93	9	\$ -	\$ -
WHBFO	Buried F/O Spl Case Rearrange	6.00	\$ 169.54	\$ 1,017.25	1	\$ -	\$ -
WHC-1	Cable throw w/indiv. Conn.100 pr	0.08	\$ 169.54	\$ 13.56	1	\$ -	\$ -
WHC-3	Cable throw w/mod 100 pr	25.50	\$ 169.54	\$ 4,323.29	425	\$ -	\$ -
WMDF-Jumper	Rearrange MDF Jumpers	0.40	\$ 169.54	\$ 67.82	4	\$ -	\$ -
WSEA	Rearrange Aerial Drop	2.00	\$ 169.54	\$ 339.08	4	\$ -	\$ -
WSEB	Rearrange Buried Drop	0.50	\$ 169.54	\$ 84.77	1	\$ -	\$ -
XBFC 200	200 pr buried abandon	0.00	\$ 169.54	\$ -	752	\$ -	\$ -
XBFC 400	400 pr buried abandon	0.00	\$ 169.54	\$ -	619	\$ -	\$ -
XBFC 50	50 pr buried abandon	0.00	\$ 169.54	\$ -	1,547	\$ -	\$ -
XBFC 6	6 pr buried abandon	0.00	\$ 169.54	\$ -	56	\$ -	\$ -
XHR	Remove Aerial Terminal	2.00	\$ 169.54	\$ 339.08	2	\$ -	\$ -
XPG 9	Remove Unprotected Block	0.50	\$ 169.54	\$ 84.77	1	\$ -	\$ -

Total Labor Hours: 98.14

Total Labor Costs: \$ 16,638.74

Total Material Costs: \$ 150.64

MATANUSKA TELEPHONE ASSOCIATION, INC. COST ESTIMATE

TO: Matanuska Susitna Borough
 FROM: Robbie Nash
 DATE: August 5, 2014
 SERVICE ORDER #:
 WORK ORDER #: 16563
 WORK ORDER DESCRIPTION: S. Mack Drive Relocate

<u>LABOR</u>	<u>Total Cost</u>
Placing	106,046.25
Splicing	16,638.74
Engineering	36,021.17
Other:	30,229.00
TOTAL LABOR	\$188,935.16
<u>MATERIALS</u>	
Placing & Splicing	20,087.57
TOTAL MATERIALS	\$20,087.57
ROW COST	115.00
TOTAL COST	\$209,137.73

RIGHT OF WAY INFORMATION

- MTA TO OBTAIN
- CUSTOMER TO OBTAIN PRIVATE R/W
- MTA TO OBTAIN FOR CUSTOMER

TYPE OF PLANT: _____

SUMMER CONSTRUCTION YES NO

ADDITIONAL COMMENTS: _____

OSP Work Order Cover Sheet



Job ID: CE-16563
 Project: S. MACK DR RELO

Eng: WJH OSP
 CLLI: CLAP
 Bud# 345
 Exch: 376

Agreement No. 35403-2014-04
 Exhibit A
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WORK ORDER TRACKING

DATE	INITS	DATE	INITS	DATE	INITS	DATE	INITS
OSP ENGR	__/__/__	To ROW	__/__/__	To CONSTRUCTION	__/__/__	TESTING COM	__/__/__
OSP ENGR SUPV	__/__/__	OUT of ROW	__/__/__	To CONTRACT	__/__/__	To DRAFTING	__/__/__
OSP E&C MNGR	8/4/14 RW	PERMIT REQUIRED(Y/N)	__	CONTRACT COMP	__/__/__	FINAL POST	__/__/__
ECO DIR	__/__/__	VERBAL (Y/N)	__	PLACING COMP	__/__/__	OSP ENGR ACCP	__/__/__
To PREPOST	__/__/__	TIME	__	PLAC REM COMP	__/__/__	ENGR SUPV ACCP	__/__/__
		DATE	__/__/__	SPL COMP	__/__/__	OSP E&C MNGR	__/__/__
		AGENCY	_____	SPL REM COMP	__/__/__		
		PER	_____	F/O SPL COMP	__/__/__		
		INITIALS	_____				

#####

Bid Template: DOL & ADOT TEMPLATE - OLD 6/17/14

Drawing	Phase	Quote \$	Material \$	Equip \$	SubCon \$	Labor Hrs
	OSP ENG	0.00	0.00	0.00	0.00	260.00
	OSP ENG	0.00	0.00	0.00	0.00	8.00
	PLACING (LC-1)	0.00	0.00	0.00	30,229.00	0.00
	PLACING (LC-8)	0.00	18,540.69	0.00	0.00	637.74
	SPLICING	0.00	150.64	0.00	0.00	98.14
Sheet Totals:		0.00	18,691.33	0.00	30,229.00	1,003.88
Material O/H:		0.00	1,396.24	0.00	0.00	
					Sub Total:	48,920.33
					Material Overhead:	1,396.24
					Sub Total:	50,316.57
					Labor \$:	158,706.17
					OSP Permit \$:	115.00
					Total WO \$:	209,137.74

NOTES:

THIS WORK ORDER WILL RELOCATE ALL TELEPHONE FACILITIES IN CONFLICT WITH THE S. MACK DR. EXTENTION PH I & PH II CITY OF WASILLA PROJECT NO.54987.

SUBCONTRACTS:
 BM 60(3.5) = \$7,380.00
 BM 60(5.3) = \$18,304.00
 BM 60(2) = \$3,327.00
 R1-15 = \$1,218.00

WITHOUT BETTERMENTS

Job ID: CE-16563
Project: S. MACK DR RELO
CLLI: CLAP
Bud#: 345



OSP Work Order Summary

07/31/2014 12:01:44PM

Stock #	Func Code	Description	Qty Est	As Bult Qty	U/M	MATERIAL	LABOR
						Result	Result
ENGINEERING			0.00% of Phase/Group Total			26.70% of Phase/Group Total	
	ENGR CNST	CONSTRUCTION ENG. LABOR HOURS	12		HR		12.00
	ENGR PRLM	PRELIMINARY ENG LABOR HOURS	240		HR		240.00
	ENGR ROW	RIGHT-OF-WAY	8		HR		8.00
	ENGR SURVEY	SURVEY CREW HOUR	8		HR		8.00
						\$0.00	268.00
PLACING			99.19% of Phase/Group Total			63.53% of Phase/Group Total	
1601	BA 22	POSTWOODRECT3.5X4.5IN X 8FT	5		EA	128.95	2.50
23994	BD-4 AH	PEDESTAL,CABLE,CAD8, GLV ST (MAX 400 PR)	3		EA	256.20	9.00
23995	BD-5 AH	PEDESTAL,CABLE,CAD12, GLV ST(MAX 900PR)	3		EA	451.74	9.00
1822	BD-7	PEDESTAL,CABLE,UPCBDS-300 *	4		EA	1,489.25	16.00
16879	BFC 200-24T	CABLE 200-24 TRENCH	225		FT	652.50	13.50
16864	BFC 25-24	CABLE 25-24 PLOWED	80		FT	58.00	1.60
16864	BFC 25-24T	CABLE 25-24TRENCH	90		FT	65.25	5.40
17186	BFC 300-24T	CABLE 300-24 TRENCH	1,260		FT	4,762.80	88.20
16984	BFC 50-24	CABLE 50-24 PLOWED	50		FT	63.40	1.00
16984	BFC 50-24T	CABLE 50-24 TRENCH	590		FT	748.06	35.40
17188	BFC 600-24T	CABLE 600-24 TRENCH	760		FT	4,924.80	53.20
21482	BHF-3	HANDHOLE LID,4FTX6FT W/30IN	1		EA	795.21	0.00
21481	BHF-3	HANDHOLE WALL4FTX6FTX42IN D	1		EA	692.65	12.00
16008	BM 11	MARKER,PEDESTAL,YLW,4FT,CLAMPS	5		EA	41.25	1.50
1610	BM 2 5/8	ROD,GROUND,5/8IN X 8FT,BLACK-	2		EA	21.60	1.00
8251	BM 53-1	SIGN WARNING F/O BURIED CABLE	1		EA	20.42	0.30
14265	BM 81-1	BRACKET,STANDOFF,8.5 INCH,	8		EA	56.00	0.00
17299	BM 81-1	BUSHING,GROUNDING,INSUL 2 IN,	2		EA	27.14	4.00

Stock #	Func Code	Description	Qty Est	As Built Qty	U/M	MATERIAL		LABOR	
						Result	Result		
PLACING			99.19% of Phase/Group Total			63.53% of Phase/Group Total			
FRE	BM 81-1	SCREW,LAG,HEX HD,3/8X4IN	32		EA				0.00
13670	BM 81-1/E	CLAMP,PIPE,UNIVERSAL 2-IN	8		EA	8.56			0.00
10503	BM 81-1/E	CONDUIT,GALV.IMC,2IN X 10 FT*	20		FT	72.40			0.00
2194	BM 81-1/E	CONDUIT,PVC,2IN X 10FT,SCH 40	20		FT	14.20			0.00
17096	BM 92-1.25D	INNERDUCT,1.25IN,BLK/ORG STRIP	4,395		FT	1,670.10			21.98
17096	BM 92-1.25T	INNERDUCT,1.25IN,BLK/ORG STRIP	150		FT	57.00			9.00
16831	CW 12-24	CABLE,BUR,FILLED,0012X24,ALUM	1,504		FT	315.84			30.08
	MOBP	MOBILIZATION & TRAVEL TIME	219		EA				219.00
	NPE 1-2	DOWN GUY (6.6M) - EXISTING	1		EA				1.00
	NPE 1-3	DOWN GUY (11.2M) - EXISTING	4		EA				4.00
	NPE 2-3	OVERHEAD GUY (11.2M) - EXISTING	1		EA				1.50
3615	PF 2-7A	ANCHOR,PLATE,24IN,X-24,15.4M	2		EA	71.56			4.00
12689	PF 2-7A	ROD,ANCHOR,1 INX8FT,TWIN EYE	2		EA	53.44			0.00
14951	PM 11	GUARD,GUY,8 FT YELLOW,PREFORMD	6		EA	45.00			1.20
FRE	PM 2 A	WIRE,1C/06 AWG,BARE COPPER,	2		FT				0.60
19800	SEB 3-22	DROP,BUR,FILLED,0003X22, 5MFT	180		FT	55.08			1.80
24140	SEB 6-22	DROP,BUR,FILLED,0006X22, 2.5MFT	35		FT	15.37			0.35
FRE	STRAND (11.2M)	STRAND,5/16IN EHS (5MFT/REEL)	160		FT				0.00
FRE	STRAND (11.2M)	STRAND,5/16IN EHS (5MFT/REEL)	1,664		FT				0.00
	UFO 96	CABLE F/O 96-DBL JKT,SNGL-ARMOR,UGND CON	1,330		FT	906.93			43.89
	WBD C	PEDESTAL REARRANGEMENT	2		EA				1.50
	WBH	HANDHOLE REARRANGEMENT	2		EA				10.00
	XBA	REMOVE STUB POLE	4		EA				2.00
	XBD	REMOVE PEDESTAL (3 4 OR 5)	4		EA				2.00
	XBFO 12	ABANDON FO CA - 12 STRAND	1,635		EA				0.00
	XBM 81	REMOVAL 2"X8' RISER GUARD	1		EA				0.50
	XC 12	12 PAIR AERIAL REMOVAL	1,608		EA				16.08
	XC 50	50 PAIR AERIAL REMOVAL	996		EA				9.96
	XNPE-1	REMOVE DOWN GUY	3		EA				1.50
	XSEA	REMOVE AERIAL DROP	220		EA				2.20
						\$18,540.69	637.74		
SPLICING			0.81% of Phase/Group Total			9.78% of Phase/Group Total			

Stock #	Func Code	Description	Qty Est	As Bult Qty	U/M	MATERIAL	LABOR
						Result	Result
SPLICING			0.81% of Phase/Group Total			9.78% of Phase/Group Total	
	BM 2C	EXISTING PED NEW CA BONDING	4		EA		1.20
	BM 2D	NEW PED EXISTING CABLE BOND	1		EA		0.30
	BM 30-(12)	PC STUB 12 PR	1		EA		0.50
	BM 30-(25)	PC STUB 25 PR	9		EA		4.50
FRE	BM 40	INTERFACE DEVICE NTWK 06 PR	1		EA		0.50
9334	BM 40	LUG, 1/4 IN HOLE,LCB6-14	1		EA	0.84	0.00
FRE	BM 40	WIRE, 1C/06 AWG, STRANDED, BLK	15		FT		0.00
FRE	BM 40	WIRE, 1C/06 AWG, STRANDED, BLUE	15		FT		0.00
19337	BM 50 (6/12)	TERMINAL 6 OR 12 PR	1		EA	14.12	0.50
FRE	HBF-1	BUR FILL CLOSURE (3 PR)	1		EA		0.50
FRE	HBF-3	BUR FILL CLOSURE (25-50 PR)	1		EA		1.00
	HC-1	CABLE SPLICING W/INDIV. CONN.	2		EA		0.04
	HC-3	CABLE SPLICING W/MOD	1,162		EA		11.62
	HO-1	FUSION, ONE FIBER (FO)	24		EA		6.00
20968	HR1-3	HR1 AERIAL TERM STRAIGHT 3IN	2		EA	135.68	5.00
	MOBS	MOBILIZATION & TRAVEL TIME	25		EA		25.00
	PEDS-C	SPL SET-UP BD3,4,5,&7	9		EA		4.50
	WHBFO	BURIED F/O SPL CASE REARR (BOM REQ)	1		EA		6.00
	WHC-1	CABLE THROW W/INDIV. CONN 100 PR	1		EA		0.08
	WHC-3	CABLE THROW W/MOD 100 PR	425		EA		25.50
	WMDF JUMPER	REARRANGE MDF JUMERS	4		EA		0.40
	WSEA	REARRANGE AERIAL DROP	4		EA		2.00
	WSEB	REARRANGE BURIED DROP	1		EA		0.50
	XBFC 200	200 PAIR BURIED ABANDON	752		EA		0.00
	XBFC 400	400 PAIR BURIED ABANDON	619		EA		0.00
	XBFC 50	50 PAIR BURIED ABANDON	1,547		EA		0.00
	XBFC 6	6 PAIR BURIED ABANDON	56		EA		0.00
	XHR	REMOVE AERIAL TERMINAL	2		EA		2.00
	XPG 9	REMOVE UNPROTECTED BLOCK	1		EA		0.50
						\$150.64	98.14

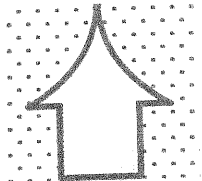
Grand Totals: **\$18,691.33** **1,003.88**

EXHIBIT "A"
SUMMARY OF ESTIMATE FOR ADJUSTMENT OF FACILITIES REQUIRED BY ROAD CONSTRUCTION

The **ENSTAR NATURAL GAS COMPANY**, estimate of work and materials required in connection with Project No.: **35403**,
Project Name: **Mack Drive Extension/ Clapp Road Improvements**, Utility Work Order No. **Job # 41428** ,
Agreement No. **35403-2014-01**

	BOROUGH PARTICIPATION	UTILITY COST NON-REIMBURS.		TOTALS
PART I. UTILITY WORK				
RIGHT OF WAY (Acquisition Only)	-	-	-	-
Preliminary Engineering	298			298
Preliminary Engineering Overhead	411			411
TOTAL PRELIMINARY ENGINEERING	709	-	-	709
Construction Engineering	1,081			1,081
Construction Engineering Overhead	1,489			1,489
TOTAL CONSTRUCTION ENGINEERING	2,570	-	-	2,570
Construction Labor	5,621			5,621
Materials & Supplies	1,442			1,442
Materials Handling Charges	644			644
Transportation & Equipment	785			785
Contract Construction	6,586			6,586
DOL Fee 1% of Contract Construction	66	-	-	66
Miscellaneous Expenses	-			-
Construction Subtotal	15,144	-	-	15,144
Construction Overhead	6,959			6,959
GROSS CONSTRUCTION COSTS	22,103	-	-	22,103
(Credits)				-
Betterments	-			-
Non-Reimbursable				-
TOTAL CREDITS	-	-	-	-
NET CONSTRUCTION COSTS	22,103	-	-	22,103
TOTAL UTILITY WORK	25,383	-	-	25,383
PART II. BOROUGH WORK FOR UTILITY				
Preliminary Engineering @ 5%				-
Contract Construction				-
Construction Engineering @ 15%				-
TOTAL BOROUGH WORK FOR UTILITY	-	-	-	-
TOTAL ESTIMATED RELOCATION COSTS (Parts I & II)	25,383	-	-	25,383

UTILITY CONCURRENCE, BY: _____ SUBMITTED BY: _____
DATE: _____, 20____ TITLE: _____



Billing Format

1. Costs associated with ENSTAR Natural Gas Company (ENSTAR) Project Work Order #41428 are reimbursable subject to the terms and conditions of this agreement.
2. Billings shall include proper supporting documentation, which shall include but not limited to the following:
 - a. Journal entry reports or timesheets detailing the employee's name, pay rate, hours charged and total costs.
 - b. Invoices for contract services including unit prices or hours and costs billed.
 - c. Material issue/return tickets verifying actual materials installed or returned.
 - d. Receipts or invoices for miscellaneous expenses with cost breakdown by item.
3. ENSTAR's estimate was increased to reflect the relocation of the crossing at Tundra Rose Drive and the relocation of 2-service crossings not reflected on ENSTAR's redlined plans included as Exhibit "E". Additional hours for construction engineering, construction labor and contract construction equipment were added to ENSTAR's estimate of costs.
4. NOTICE OF WORK
Before work commences, the Company shall file a *Notice of Work* (NOW) with the Alaska Department of Labor and Workforce Development (DOL/WD). This requirement does not apply if the *total reimbursable* portion of the Agreement is less than \$2,000.

FILING FEE

Per AS 36.05, the DOL/WD will assess a 1% filing fee with the NOW. The fee is calculated as 1% of the *reimbursable contract construction* amount and is capped at \$5,000. The filing fee is not required when the *total reimbursable agreement* amount is less than \$25,000.

Per WHPL #198 (October 15, 2004) the Company must provide DOL/WD a sworn affidavit that their company labor wages and benefits meet or exceed the total prevailing wage requirements for the specific classification or worker listed in the applicable Laborers' and Mechanics' Minimum Rates of Pay pamphlet.

COMPLETION OF WORK

Upon completion of construction the Company will re-calculate the DOL/WD filing fee using the actual *reimbursable contract construction* amount. With this information, the Company shall file a *notice of completion* with DOL/WD and will either pay additional fees owed or receive a refund, as appropriate.

SUMMARY OF ESTIMATED COSTS

Mack Drive Extension/Clapp Road Improvements
 Enstar Natural Gas Company
 Enstar Work Order No: Job #41428

Reimbursable Relocation Costs

57282 PRELIMINARY ENGINEERING

Preliminary Engineering	(3 hrs @ \$80.00/hr)	\$	240.00
Construction Overhead	(48.63% of Labor Cost)	\$	116.71
Transportation & Equipment	(17.36% of Labor Cost)	\$	41.66
Payroll Tax	(24.25% of Labor Cost)	\$	58.20
Admin & General Overhead	(105.20% of Labor Cost)	\$	252.48
Total Preliminary Engineering		\$	709.06

57720 CONSTRUCTION ENGINEERING

Const. Eng'ing - Reg. Time	(12 hrs @ \$58/hr)	\$	696.00
Overtime	(2 hrs @ \$87.00/hr)	\$	174.00
Construction Overhead	(48.63% of Labor Cost)	\$	423.08
Transportation & Equipment	(17.36% of Labor Cost)	\$	151.03
Payroll Tax	(24.25% of Labor Cost)	\$	210.98
Admin & General Overhead	(105.20% of Labor Cost)	\$	915.24
Total Construction Engineering		\$	2,570.33

57719 CONSTRUCTION COSTS

Construction Labor			
Regular Time	(60 hrs @ \$58.00)	\$	3,480.00
Overtime	(12 hrs @ \$87.00/hr)	\$	1,044.00
Payroll Tax	(24.25% of Labor Cost)	\$	1,097.07
Materials & Supplies		\$	1,442.00
Material Overhead	(44.65% of Materials)	\$	643.85
Transportation & Equipment	(17.36% of Labor Cost)	\$	785.37
Contract Construction			
Contract Backhoe (Hrs)	(12 Hrs @ 232.99 per Hr)	\$	2,795.88
Contract Dozer (Hrs)	(8 Hrs @ 161.23 per Hr)	\$	1,289.84
Install 4 In. HDPE	(0' @ 13.15 per ft.)	\$	-
Install 4 In. HDPE, Extra Depth	(0' @ 14.79 per ft.)	\$	-
Install 2 In. HDPE	(0' @ 7.76 per ft.)	\$	-
Bores, 4" per ft.	(0' @ 60 per ft)	\$	-
Bores, 2" per ft.	(50' @ 50 per ft)	\$	2,500.00
Misc. Expenses		\$	-
Construction Overhead	(48.63% of Labor Cost)	\$	2,200.02
Admin & General Overhead	(105.20% of Labor Cost)	\$	4,759.25
Total Construction Costs		\$	22,037.28
DOL fee of 1% of Contract Construction (\$5,000 max)		\$	65.86
Less Credits		\$	-
TOTAL ESTIMATED RELOCATION COSTS:		\$	<u>25,382.52</u>

Note: Included an additional 4 Hrs for Construction Engineering
 Included an additional 12 Hrs for Construction Labor
 Included additional hours for contract backhoe & dozer
 Included bore for replacement of 2" crossing @ Tundra Rose
 Includes DOL Fee on Contract Construction



ENSTAR Natural Gas Company
A DIVISION OF SEMCOENERGY
Engineering Department
401 E. International Airport Road
P. O. Box 190288
Anchorage, Alaska 99519-0288
(907) 264-3740
FAX (907) 563-4085

August 4, 2014

Bob Walden PE
Matanuska-Susitna Borough
Public Works Department - Capital Projects
350 E. Dahlia Avenue
Palmer, AK 99645

**Project: Mack Drive Extension – Clapp Street Improvements – MSB Project #35403
ENSTAR Project # 6888; RC# 41428**

Dear Mr. Walden,

ENSTAR Natural Gas Company has reviewed design documents for the Mack Drive Extension - Clapp Street Improvements project for relocation work associated with the above referenced MSB project. Enclosed are one set of redlined design drawings and a non-binding cost estimate for the gas facility work associated with this project. The completed ENSTAR design drawings will be forwarded to your office once they are complete. The marked up drawings represent approximate locations only. The proposed work to ENSTAR facilities includes, but is not limited to, the following –

- Sheet U1 – Station 55+00 to 64+00 – Lower 2 inch HDPE distribution main as required to maintain cover. Line along this section is shown inside of cut line.
- Sheet U2 – Station 68+75 to 70+00 – Lower 2 inch HDPE distribution main as required to maintain separation from installed culvert across S. Vicarious St.

The cost estimate assumes that the traffic will be coordinated with MSB's contractor. The cost estimate includes only the costs of adjustment required by the project to ENSTAR facilities, which qualify for participation under the provisions of United States Title 23, Code of Federal Regulations, Part 645, and State Law.

The enclosed estimate is based on the following assumptions:

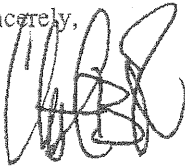
- **All work will occur in frost-free ground.**
- **MSB must provide the necessary survey information for ENSTAR to determine the elevation and alignment of the proposed facilities.**
- **A written fifteen-day notice is required from MSB to schedule ENSTAR crews.**
- **ENSTAR will not be responsible for any facilities that are abandoned in place.**
- **Any further disposal, if required will be the responsibility of the MSB or its contractor.**
- **ENSTAR will not be responsible for the SWPPP, but will cooperate with the contractor's SWPPP plan and be responsible for ensuring proper BMP's are implemented during the time of construction.**
- **ENSTAR will not be responsible for clearing of the ROW prior to construction.**

Additionally, ENSTAR's natural gas pipelines must be continuously supported during excavation and backfill. Extreme caution must be exercised during excavation and backfill operations to prevent damage to the pipe and pipe coating. A copy of ENSTAR's Safety Requirements For Excavation Adjacent to Natural Gas Pipelines has been included to familiarize contractors with safe excavation methods while working close to gas pipelines.

Note that the plans referenced here indicate all relocation work associated with ENSTAR's facilities. However, this work order is only in regards to the time and materials required for the scope of relocation work planned under this estimate.

Please review the attached final design and cost estimate and call me at 334-7744 to discuss this work.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chet Frost', written over a horizontal line.

Chet Frost P.E.
Area Engineer

ENSTAR Natural Gas Company

Cc: File

Reimbursable Project Cost Estimate

Project: Mack Dr. Extension - Clapp Rd. Improvements
 ENSTAR Proposal #: 6888 AFE/RC#: 41428

Date: 8/4/2014

A. Preliminary Engineering				
3 man hours @	\$80.00 /Hr		\$240.00	
Construction Overhead =	48.63% of Labor Cost		\$117.00	
Transportation & Equipment =	17.36% of Labor Cost		\$42.00	
Payroll Tax =	24.25% of Labor Cost		\$58.00	
Admin & General Overhead =	105.20% of Labor Cost		\$252.00	
				\$709.00
B. Construction Engineering, Engineering Services & Measurement				
Regular Time:	8 man hours @	\$58.00 /Hr	\$464.00	
Overtime:	2 man hours @	\$87.00 /Hr	\$174.00	
Payroll Tax =	24.25% of Labor Cost		\$155.00	
				\$793.00
C. Construction Labor				
Regular Time:	48 man hours @	\$58.00 /Hr	\$2,784.00	
Overtime:	12 man hours @	\$87.00 /Hr	\$1,044.00	
Payroll Tax =	24.25% of Labor Cost		\$928.00	
				\$4,756.00
D. Construction Overhead				
	48.63% of Labor Costs (in sections B + C)			\$2,172.00
E. Materials & Supplies				\$1,442.00
F. Materials Handling Charge				\$644.00
	44.65% of Materials (section E)			
G. Transportation & Equipment				\$775.00
	17.36% of Construction Eng. & Labor (in sections B + C)			
H. Contract Construction				
Contract Backhoe (hrs)	10 /Hr @	\$232.99 /Hr	\$2,330.00	
Contract Dozer (hrs)	6 /Hr @	\$161.23 /Hr	\$967.00	
Brushing less than 4" [ft]	0 /Ft @	\$5.15 /Ft	\$0.00	
Clearing greater than 4" [ft]	/Ft @	\$8.07 /Ft	\$0.00	
Boring (2 ") [ft]	/Ft @	\$50.00 /Ft	\$0.00	
Boring (4 ") [ft]	0 /Ft @	\$60.00 /Ft	\$0.00	
Asphalt/Ground Repair	0 /Ft @	\$0.00 /Ft	\$0.00	
Traffic Control	Days	\$1,500.00 /day	\$0.00	
				\$3,297.00
I. Administrative & General Overhead				
	105.20% of Labor Costs (excluding payroll tax)			\$4,698.00
			Project Sub-total:	<u>\$19,286.00</u>
J. Department of Labor Notice of Work Fee				
	1.0% of contract construction costs <i>if contract construction costs over \$25,000</i>			\$0.00
			Total before any betterments:	<u>\$19,286.00</u>
K. Betterments				
			Reimbursable Project Cost Estimate:	\$19,286.00