



7437 Tower Street
Ft. Worth, Texas 76118
Phone: (817)589-2060 Fax: (817)595-4900

TO: Successful Contractor for the Eastside P. S. Replacement of Pumps # 1 & 2
REF: City of Rockwall - Eastside P.S. Replacement of Pumps # 1 & 2
BIDS: 16-April @ 10:00 a.m.
ENG: Shimek, Jacobs & Finklea
DATE: 15-April-99

ADDENDUM #1 ACKNOWLEDGED

ATTN: Salesman: Jerry Lee Freedle PH FAX Quote No.: Q499-F4BJ
Item. No. Qty. Material Description Unit Price Total Price

Section 1 - Vertical Turbine Pumping Units
BASE BID
Q = 2300 GPM @ 170' TDH - 81% eff @ design - Pump Wt. 1944 lbs.
S = 1770 RPM Motor Wt. 1300 lbs.
N = 460V/3ph Total Wt. 3244 lbs.
P = 125 Hp
BB = 18' 6"

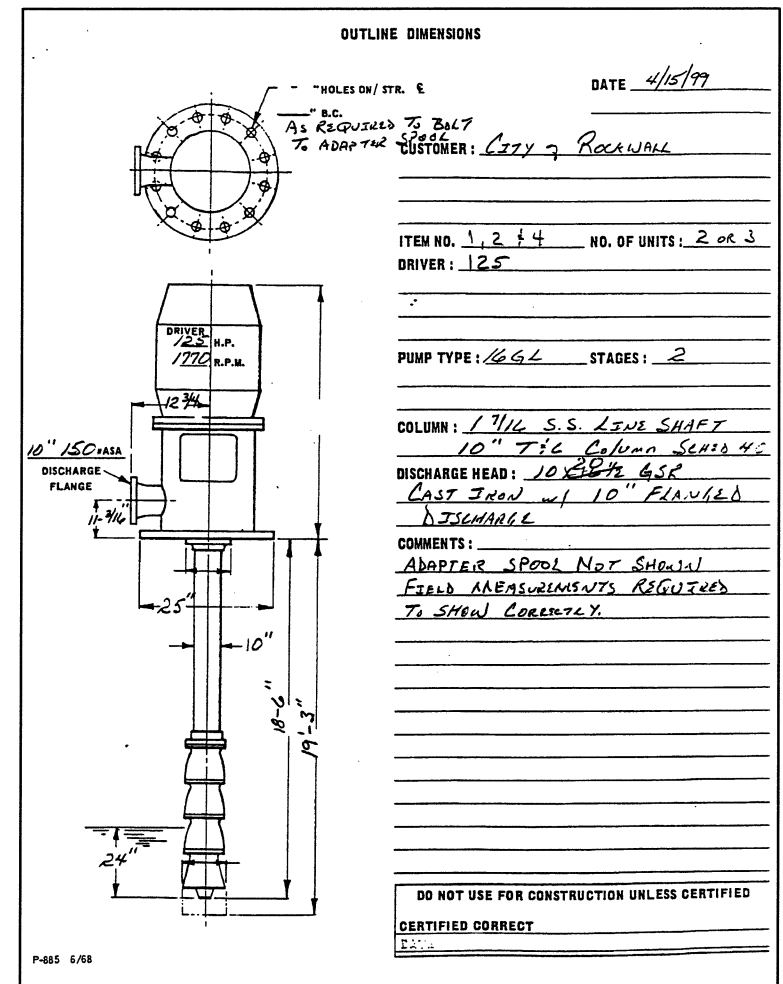
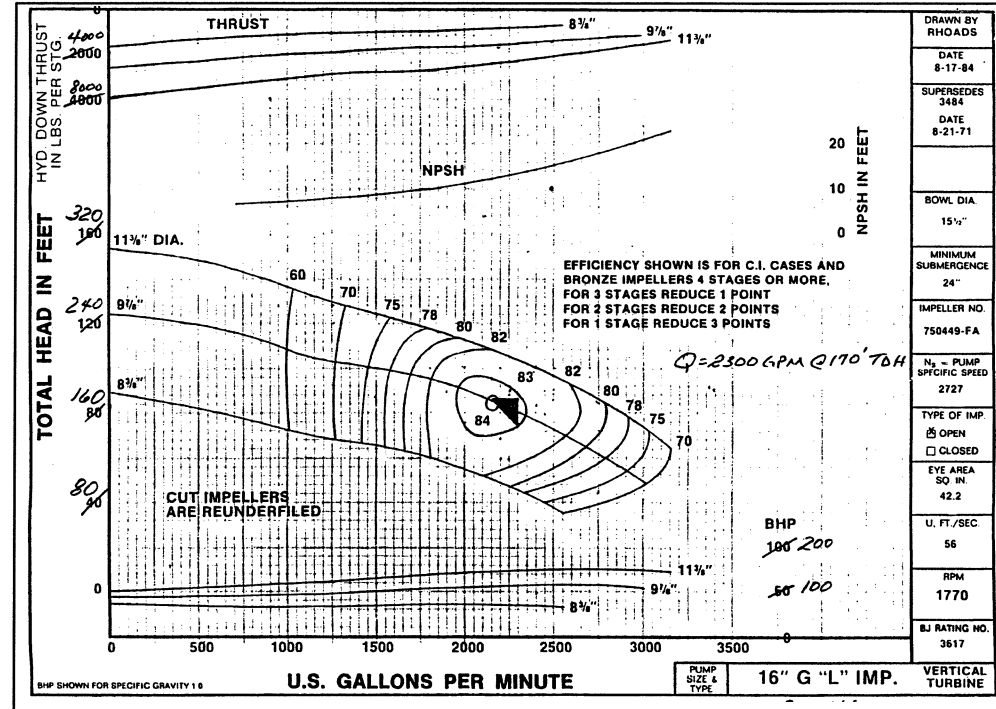
Scope of equipment offered:

- Byron Jackson Model 16GL-2 Stage product lube bowl assembly w/ C.I./B.F. construction w/ impellers secured to pump shaft w/ S.S. collets
- Steel adapter spools for mounting discharge head to existing pump can.
- 10 X 20 GSR cast iron discharge head w/ packed stuffing box and bronze split gland
- Vortex Suppressors mounted to bottom suction bell of pump (To be shipped loose for field mounting by installing contractor)
- Steel adapter spools for mounting discharge head to existing pump can.
- Items Bolts and gaskets to mount head and adapter spool to pump can. (TJNEMEC Series 140)
- Coat pump, column & discharge head per specifications.
- 125 Hp vertical hollow shaft motors w/ 120V space heaters, no ground lug in motor conduit box.
- Items add guard screens to discharge heads
- Item freight F.O.B. jobsite
- Item start up supervision

Clarifications:
Pump offered with a 2-pc S.S. head shaft in lieu of adj. couplin.
Pump offered with threaded and coupled column pipe in lieu of flanged column pipe.
Surge protection capacitor, lightning arrestor and conduit box, all by others.
Motor to be shipped with manufactures standard paint.
Motor offered without RTD.

Shipment: Allow 2-3 weeks after submittal approval for pumps
Allow 4-6 weeks after submittal approval for motor 6/3/99 by GCR

Prepared by: Jerry Lee Freedle
Pricing does not include tax.
LOT NET TOTAL F.O.B. SHIPPING POINT WITH FREIGHT ALLOWED TO JOBSITE



MARATHON ELECTRIC
P.O. BOX 8003
Wausau, WI 54401-8003
PH: 715 675-3311

CERTIFICATION DATA (DATA IS BASED ON 460 VOLTS)

TO: Model: 405VTDB7036
Customer: Serial No:
Cust Order NO.: MEMC Order No:
Enclosure: WPI Outline:

NP HP: 125.00 DESIGN: B FRAME: 405
NP VOLTS: 230/460 FREQ: 60 HZ MAX LOAD INERTIA: 540
NP AMPS: 144.00 LR CODE: G MTRWGT:
NP RPM: 1775 95% PF CORR: ROTOR INERTIA: 19.9
NP EFF: 92.4 % SOUND @ 1M: 81 dBA STARTS/HOUR: 3(NEMA WK2)
NP PF: 87.5% AMBIENT: 40 C STALL TIME: 5 Seconds
GTD EFF: 91.0 % SERVICE FACTOR: 1.15 INSULATION: F

EQUIVALENT WYE CKT. PARAMETERS (OHMS PER PHASE)

R1	R2	X1	X2	XM
0.043	0.023	0.163	0.272	6.515

AMPS	KW	RPM	TQ(FT-LB)	EFF (%)	PF (%)	R/R (C)
No LD	40.50	2.20	1800	91.50	88.50	62.00
1/4 LD	53.00	26.00	1795	183.00	93.00	80.00
1/2 LD	78.50	50.50	1790	276.00	92.40	85.00
3/4 LD	110.00	75.00	1785	369.00	92.40	87.50
1.0 LD	144.00	100.00	1775	425.00	92.40	88.00
1.15 LD	165.00	115.00	1770	465.00	91.70	88.00
1.25 LD	180.00	126.00	1765			

MTR AMPS NEMA AMPS MTR TQ NEMA TQ PF (%)

L.R.	900	907	165%	125%	37
B.D.	420		226%	201%	72

COMMENTS: VERTICAL HOLLOW SHAFT

CONNECTION #: REFERENCE: M405-125H4DP1
SUBMITTED BY: RUTHANN GROUNDS

FORM 4118 6-30-96 5/24/97

This record drawing is a compilation of the sealed engineering drawing for this project, modified by addenda, change orders and information furnished by the contractor. The information shown on the record drawings that was provided by the contractor or others not associated with the design engineer cannot be verified for accuracy or completeness. This original sealed drawings are on file at the offices of Birchhoff, Hendricks & Conway, L.L.P.

BY G.C.H. DATE 05/06/99

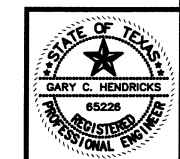
These plans and related specifications were prepared for construction of this specific project only. Reuse of these documents is not permitted without written authorization of Shimek, Jacobs & Finklea.

CITY OF ROCKWALL, TEXAS

EASTSIDE PUMP STATION PUMP & MOTOR DATA

SHIMEK, JACOBS & FINKLEA, L.L.P.
CONSULTING ENGINEERS
Dallas, Texas

DESIGNED BY: G.C.H. PROJECT: 98192 SHEET NO. 1B
DRAWN BY: S.J. & F. DATE: APRIL 1999 OF 12 SHEETS



Gary C. Hendricks
04/08/1999