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FEB 14 2020

PUBLIC SERVICE
COMMISSION

February 11, 2020

Kentucky Public Service Commission (PSC)
Post Office Box 615
211 Sower Boulevard
Frankfort, KY 40602-0615

**Re: Filing of Response of North Manchester Water Association (NMWA) to
Commission Staff's First Request for Information to NMWA
Case No. 2019-00457**

To Whom It May Concern:

Attached please find the Response of NMWA to Commission Staff's First Request for Information to NMWA.

Sincerely,

Raleigh P. Shepherd, Esq.

RPS/es

RECEIVED

FEB 14 2020

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

PUBLIC SERVICE
COMMISSION

In the Matter of:

BRANDON AND TABITHA SWAFFORD)	
)	CASE NO.
COMPLAINANT)	2019-00457
V.)	
)	
NORTH MANCHESTER WATER ASSOCIATION, INC.)	
)	
DEFENDANT)	

**RESPONSE OF NORTH MANCHESTER WATER ASSOCIATION (NMWA) TO
COMMISSION STAFF'S FIRST REQUEST FOR INFORMATION TO NMWA**

Comes NMWA, by and through its legal counsel, and for its response states as follows:

1. Refer to NMWA's answer filed January 16, 2020. Provide the estimated cost for installing 700 linear feet of 2 – inch waterline with a duplex water booster station to be operated and maintained by NMWA and state who is responsible for paying those costs.

Answer: The proposed estimate, dated February 3, 2020, is \$35,500. A copy of the proposed estimate is attached hereto. The NMWA is responsible for paying those costs.

2. Provide an estimated timeline for completing the installation of the proposed 2 – inch water line referenced in Request No. 1.

Answer: Depending on the production of the pump station, it is estimated that the construction will take approximately six (6) to eight (8) weeks.

3. Explain whether the booster pump will be installed on the customer's side of the meter or NMWA's side of the meter.

Answer: The proposed water booster will be installed on the new proposed 2 – inch water line

that will be maintained and operated by NMWA; therefore, the booster pump station will be installed on the NMWA's side of the meter.

4. Explain whether the installation will impact the water service provided to the other customers in the area.

Answer: The proposed project will not adversely affect any of the other customers in the area. The Swaffords are located along the highest elevation in the area and the other customers are located at a lower elevation. The Swaffords new house is actually at a higher elevation than their previous house. Therefore, the design of the proposed 2 – inch water line and water booster station will provide the least impact on the suction side of the water booster as possible.

ALL on this 11th day of FEBRUARY, 2020.

Respectfully Submitted,



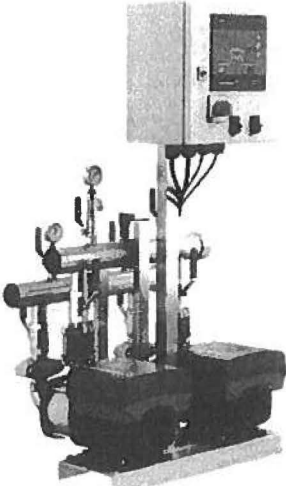
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ATTORNEY FOR NMWA

cc: Brandon Swafford
2885 Upper Rader Road
Manchester, KY 40962

ENGINEERS COST ESTIMATE
NORTH MANCHESTER WATER ASSOCIATION
SWAFFORD COMPLAINT - UPPER RADER ROAD - BOOSTER PUMP AND WATER LINE
2/3/2020
SME #20002

ITEM NO.	ITEM DESCRIPTION	UNITS	QUANTITY	UNIT COST	TOTAL COST
1	2" CL 200 PVC WATERLINE	LF	800	\$ 8.00	\$ 6,400.00
2	2" Gate Valves	EA	2	\$ 1,000.00	\$ 2,000.00
3	HYDROPNEUMATIC WATER BOOSTER STATION	EA	1	\$ 17,500.00	\$ 17,500.00
4	Tie new 2" to Ex. 8" W.L. with wet tap	EA	1	\$ 1,500.00	\$ 1,500.00
5	Blow Off Valve Assembly	EA	1	\$ 1,000.00	\$ 1,000.00
6	Line Markers	EA	5	\$ 20.00	\$ 100.00
				TOTAL	\$ 28,500.00

ENGINEERING		PRELIMINARY DESIGN	\$500.00
		FINAL DESIGN	\$2,000.00
		CONSTRUCTION ENGINEERING	\$1,000.00
		COORDINATION WITH UTILITIES AND RIGHT OF WAY	\$500.00
		INSPECTION DURING CONSTRUCTION	\$3,000.00
		TOTAL OTHER FEES	\$7,000.00
		TOTAL PROJECT COSTS	\$ 35,500.00

Count	Description
1	<p>HYDRO MULTI-B/E 2 CME3-3</p>  <p>Product photo could vary from the actual product</p> <p>Product No.: On request</p> <p>Pressure booster system designed and manufactured by Grundfos. Delivered on a common base plate, completely assembled and tested before it leaves the factory and ready for connection of water and electricity.</p> <p>All pumps are Grundfos CME pumps with integrated frequency drives connected in parallel and operated in cascade.</p> <p>The booster maintains a constant pressure through continuous adjustment of speed of the pumps and starting and stopping the pumps to meet the required flow.</p> <p>The system consists of:</p> <ul style="list-style-type: none"> -2 horizontal multistage pumps with integrated frequency converter, type CME3-3 -A suction and a discharge manifold in EN/DIN 1.4571/ AISI 316 T1 -One non-return valve per pump placed on the discharge side as standard. -Two isolating valves and flange connections per pump for easy service and inspection of the pumps. -Pressure sensor and gauge. -CU323 Pump controller for controlling parallel coupled pumps in cascade. <p>Functions and features of the CU323 Pump controller:</p> <ul style="list-style-type: none"> -Constant pressure control -Automatic cascade control -Automatic alternation between pumps -Stop function -High Pressure Protection -Sensor Fault Alarm -Motor Protection -Standby pumps -Automatic Display Lock -External Start / Stop (potential free contacts) -Easy to use HMI with 2 displays for set-point and process value -2 digital outputs, -Auto / manual control of pumps -Optional bus communication -Optional Safe Tank filling sequence



Company name:

Created by:

Phone:

Date:

1/13/2020

Count	Description
	<p>-Optional monitoring of inlet pressure by means of Inlet sensor</p> <p>Available communication protocols:</p> <ul style="list-style-type: none">-LON-BACnet-BACnet IP-Modbus TCP-Modbus RTU-GSM-GRM <p>Liquid:</p> <p>Pumped liquid: Water</p> <p>Liquid temperature range: 32 .. 140 °F</p> <p>Selected liquid temperature: 68 °F</p> <p>Density: 62.29 lb/ft³</p> <p>Technical:</p> <p>Actual calculated flow: 8 US gpm</p> <p>Resulting head of the pump: 80 ft</p> <p>Materials:</p> <p>Pump: EN-GJL-200</p> <p>Installation:</p> <p>Maximum operating pressure: 145.04 psi</p> <p>Pipe connection: 2NPT</p> <p>Electrical data:</p> <p>Power (P2) main pump: 1.5 HP</p> <p>Main frequency: 60 Hz</p> <p>Rated voltage: 1 x 200-240 V</p> <p>Starting main: electronically</p> <p>Rated current of system: 15.4 A</p> <p>Tank:</p> <p>Diaphragm tank: No</p> <p>Others:</p> <p>Net weight: 175 lb</p> <p>Gross weight: 291 lb</p> <p>Custom tariff no.: 8413.70.2040</p>

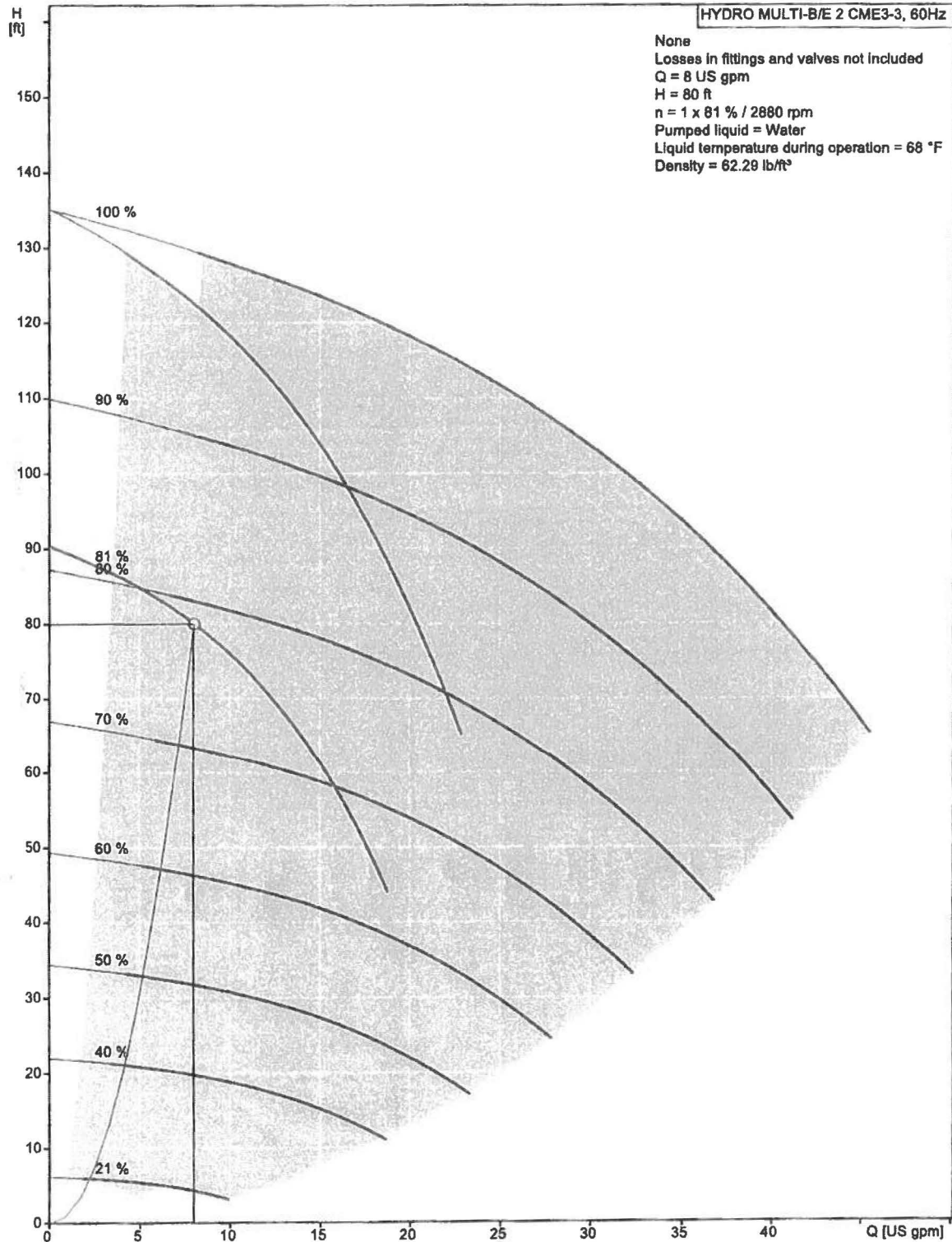
GRUNDFOS



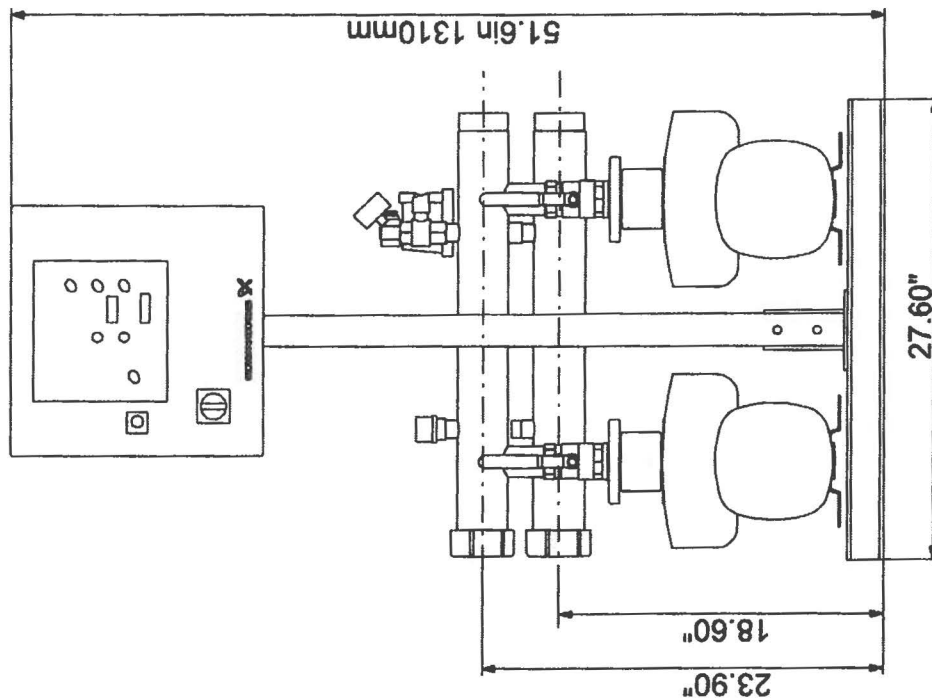
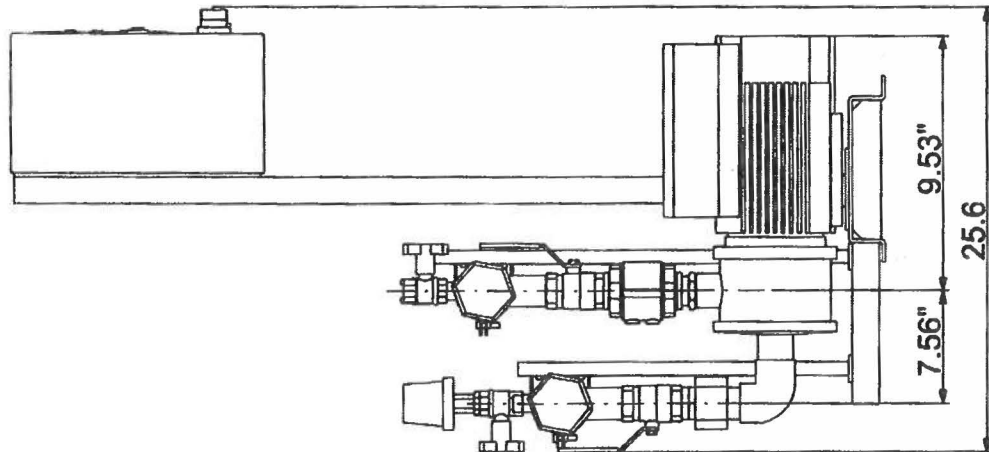
Company name:
Created by:
Phone:

Date: 1/13/2020

On request HYDRO MULTI-B/E 2 CME3-3 60 Hz



On request HYDRO MULTI-B/E 2 CME3-3 60 Hz



Note! All units are in [in] unless otherwise stated.
Disclaimer: This simplified dimensional drawing does not show all details.