



CITY OF WHITE HOUSE

REQUEST FOR BID FOR PORTLAND ROAD LIFT STATION DRY PIT SUBMERSIBLE PUMP

August 22, 2017

105 College Street
White House, Tennessee, 37188

CITY OF WHITE HOUSE
REQUEST FOR BID
DRY PIT SUBMERSIBLE PUMP
BID NO: 17-1046WW

GENERAL

It is the intent of these specifications to describe the minimum requirements in sufficient detail to secure bids for the aforementioned.

All Quotations must be signed with the firm's name and by a responsible officer or employee. Obligations assumed by such signature must be filled. Bid documents that are unsigned will be classed an irresponsible offers and will not receive any consideration.

State brand or make on each item: if quoting on other than make, model or brand specified, the manufacturer's name and catalog number must be given, or descriptive cut and complete technical data covering the item attached to the quotation.

Bid Bonds and/or Performance Bonds are required on all City contracts. Bid Bonds will be considered waived if not specifically called for on the Bid Call.

The CITY OF WHITE HOUSE reserves the right to reject any or all bids or accept any presented which meet or exceed these specifications, and/or which would be in the best interest of the City and will not necessarily be bound to accept the lowest bid.

CONTRACT ADMINISTATOR

Questions or problems arising from bid procedures or subsequent order ad delivery procedures should be direct to the CITY OF WHITE HOUSE Purchasing Division, 105 College Street, White House, TN 37188 to the attention of Derek Watson, Purchasing Coordinator.

Bids shall be submitted to the City Purchasing Office, White House City Hall, 105 College Street, **by 2:00 pm CST on September 5, 2017** in a sealed envelope labeled **Bid No. 17-1046WW** and including quotation due date. Sealed bids may be hand delivered or delivered by postal carrier or other delivery service. The envelope containing the bid must be clearly identified as follows:

Sealed Bid for the Dry Pit Submersible Pump
Bid No. 17-1046WW
Attention: Derek Watson
Purchasing Agent
City of White House, Tennessee

All bids must be received in the City Purchasing Office on or before the date and hour designated due date. Any bids received after this time will not be considered and will be rejected. **BIDS MAY NOT BE DELIVERED TO ANY OFFICE ACCEPT PURCHASING OR FINANCE.**

In comparing the bids and proposals and making awards, the City may consider such factors as quality and adaptability of services, the bidder's record of experience and integrity and

performance assurance in addition to that of the bid price. The City reserves that right to cancel this order, or any part thereof without penalty.

The successful vendor agrees that he/she shall and does comply with all Tennessee local, state and/or federal laws, statues, rules and regulations including but not limited to the Rehabilitation Act of 1973 and the Americans with Disabilities Act. In the event that any claim should arise with regard to this contract for a violation of any such local, state and/or federal law, statue, rule or regulation, the provider will indemnify and hold the City of White House harmless for any damages, including court cost or attorney fees which might be incurred.

The City of White House reserves the right to reject any or all bid proposals and to waive all informalities. A Certificate of Insurance containing all coverage currently held for General Liability, Worker's Compensation, and Personal and Automobile Liability shall be included with the bid. A conditional or unqualified bid will not be considered. Contract award will be made to the lowest responsible and responsive bidder considering all of the bid items in the Bid Schedule and the level of qualifications of the bidder. **Contractor shall hold Bid Price for sixty (90) days.**

Any contract will be interpreted under the laws and statues of the State of Tennessee.

NONDISCRIMINATION POLICY

It is the policy of the City of White House not to discriminate on the basis of race, color, national origin, age, sex, or disability in its hiring and employment practices, or in admission to access to, or operation of its programs, services, and activities. In addition, the City of White House does not discriminate based on race, color, or national origin in federal or state sponsored programs, pursuant to Title VI of the Civil Rights Act of 1964 (42 U.S.C. 2000d). With regard to all aspects of this contract, the contractor certifies and warrants it will comply with this policy.

PAYMENTS

Vendor is to submit properly completed invoice(s) to the address specified on the purchase order. To insure prompt payment each invoice should cite the purchase order number, bid number, project description, unit and total price, discount terms and include the vendor's name and return remittance address.

Payment will be mailed within thirty (30) days of (a) the receipt and acceptance of the items, including all paper work and (b) receipt of a properly completed invoice. The City of White House is exempt from Tennessee State Sales Tax. An exemption certificate will be furnished at the request of the successful vendor.

GENERAL SPECIFICATIONS

Furnish quantity 2 (Two) "Dry Pit Submersible" Rotating Assemblies to fit the existing pump Volute (Casing) and Base Adapter including a new Closed Loop Cooled Dry Pit Submersible motor, a volute adapter flange, an impeller with a replaceable wear ring, and all of the necessary hardware and gaskets to complete the installation.

Existing pumps are Smith and Loveless model 4D4A.

Retrofit Rotating Assembly shall fit the existing pumps without the need for any modifications to existing volute and base adapter.

No changes to the existing pump base foundation or suction and discharge piping are allowed.

CONDITIONS OF OPERATION

Pump Data	
Capacity	100 GPM
Total Dynamic Head	221 Feet
Max Speed	1800 RPM
Existing Pump Data Sheet	Attached

MOTOR

Motors shall be completely sealed and suitable for continuous indefinite long-term operation in both fully submerged and completely dry (in air) environments. The Immersible motors, or motors, designed only for limited or short periods of operation in air or submerged are not acceptable.

Motors shall be FM Approved, Class 1, Division 1, Groups C and D Explosion Proof, 50 HP, 1.15 Service Factor, 1800 RPM, 460V, 3 phase, 60 Hz.

All electrical parts shall be housed in an air-filled cast iron watertight enclosure.

Motors shall have an internal Closed Loop Cooling system that is isolated from the liquid being pumped by a highly efficient corrugated shape heat exchanger incorporated into the bottom of the motor. The cooling media shall be a mix of glycol and water for excellent heat conductivity and shall be circulated through a cooling jacket and around the body of the motor by means of a motor shaft mounted circulation impeller located just above the heat exchanger and above the outer shaft seal.

Cooling by way of circulating the liquid being pumped (sewage) through a cooling jacket is NOT ACCEPTABLE.

Motor internals shall be protected by dual mechanical seals and the outer seal shall have silicon carbide faces (both rotating and stationary faces). Lower oil chamber shall be fitted with dual moisture sensing electrodes for sensing any moisture ingress and sending a signal to a separate alarm / motor control panel. **NOTE: Sewage cooled motors or temporary immersible motors shall not be accepted.**

Motor shall be fitted to the existing pump volute by way of an engineered adapter flange with tight tolerance spigot and recess fits to ensure accurate concentricity of all components about the same axis. Motor and adapter flange shall be secured to the pump volute with stainless steel hardware and Durabla gaskets.

IMPELLER

Impeller shall be a Class 30 cast iron, two-vane, non-clog, design suitable for pumping raw wastewater or sewage sludge with solids up to 3" in diameter. Impeller shall have smooth passageways, blunt well-rounded leading edges, thick hydrofoil shape vanes tapered to the trailing edges and circular flow pattern to prevent accumulation of solids and stringy materials. Impeller shall be fitted with a replaceable wear ring at the nose made from 410 stainless steel and hardened to minimum 300 BHN. Impeller shall be designed for optimal impeller running clearance and shall be adjustable by use of shims behind the impeller to restore the running clearance after some of the wear ring has worn away.

**BID FORMS AND SUPPLIMENT INFORMATION
FOLLOWING ON NEXT PAGE**

CITY OF WHITE HOUSE
REQUEST FOR BID
PORTLAND ROAD LIFT STATION
DRY PIT SUBMERSIBLE PUMP105 COLLEGE STREET
WHITE HOUSE, TN 37188
PHONE: 615-672-4350 Extension 2130 FAX: 615-672-2939

BID NO. 17 -1046WW

DATE: August 22, 2017

**BIDS WILL BE RECEIVED UNTIL
10:00 AM ON SEPTEMBER 12,
2017 AND THEN READ
PUBLICALLY ALOUD**

TO BIDDER:

PLEASE QUOTE YOUR LOWEST PRICE, BEST DELIVERY DATE, CASH DISCOUNT TERMS, AND F.O.B. POINT FOR THE FOLLOWING. THE CITY RESERVES THE RIGHT TO REJECT ANY OR ALL QUOTATIONS AND TO ACCEPT ANY OR ALL ITEMS AT THE PRICE QUOTED. UNLESS OTHERWISE STATED, ALL QUOTATIONS ARE CONSIDERED TO BE FIRM QUOTATIONS FOR A PERIOD OF 30 DAYS FROM DATE OF QUOTATION DUE DATE. PLEASE QUOTE ON THIS FORM AND RETURN IT MARKED "NO QUOTE" IF YOU CANNOT QUOTE IN ORDER TO REMAIN ON THE CITY'S VENDOR LIST.

FIRM'S NAME: _____

ADDRESS: _____

TELEPHONE: _____ FAX: _____ EMAIL: _____

NAME: _____ TITLE: _____

DATE _____ SIGNATURE _____

GRAND TOTAL OF BID: _____

DELIVERY TIME/PROJECT DATE IF APPLICABLE: _____

**CITY OF WHITE HOUSE
NONDISCRIMINATION POLICY**

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COMPANY NAME

DATE

REPRESENTATIVE

TITLE

**CITY OF WHITE HOUSE
105 COLLEGE STREET
WHITE HOUSE, TN 37188
615.672.4350
615.672.2939 FAX**

STATE OF TENNESSEE/CITY OF WHITE HOUSE
COUNTY OF SUMNER/ROBERTSON

DRUG-FREE WORKPLACE AFFIDAVIT OF PRIME BIDDER

NOW COMES AFFIANT, who being duly sworn, deposes and says:

1. He/She is the principal officer for;

Company Name

Address

2. That the bidding entity has submitted a bid to the City of White House for;

Bid Number

Project

3. That the bidding entity employs no less than five (5) employees;
4. That Affiant certifies that the bidding entity has in effect, at the time of submission of its bid to perform the construction referred to above, a drug-free workplace program that complies with 50-9-113, Tennessee Code Annotated.
5. That this affidavit is made on personal knowledge.

Further Affiant saith not.

Affiant

SUBSCRIBED AND SWORN TO before me this _____ day of _____.

Notary Public

My commission expires:_____

**STATE OF TENNESSEE
IRAN DIVESTMENT ACT AGREEMENT**

By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid each party thereto certifies as to its own organization, under penalty of perjury, that to the best of its knowledge and belief that each bidder is not on the list created pursuant to Tennessee Code Annotated § 12-12-106.

Tenn. Code Ann. § 12-12-106 requires the chief procurement officer to publish, using credible information freely available to the public, a list of persons it determines engage in investment activities in Iran, as described in § 12-12-105.

While inclusion on this list would make a person ineligible to contract with the state of Tennessee, if a person ceases its engagement in investment activities in Iran, it may be removed from the list.

If you feel as though you have been erroneously included on this list please contact the Central Procurement Office at CPO.Website@tn.gov.

_____	_____
COMPANY NAME	DATE
_____	_____
REPRESENTATIVE	TITLE



**Smith &[®]
Loveless, Inc.**

14040 Santa Fe Trail Drive
Lenexa, Kansas 66215

SUBMITTAL

PRODUCT 8'Diameter Pump Station

JOB NAME White House, TN.

SERIAL NO. 08-8223-U

DATE May 29, 1987

EQUIPMENT AS COVERED BY THESE DOCUMENTS
WILL HAVE A MANUFACTURING COMPLETION
TIME OF 11 WEEKS AFTER SMITH &
LOVELESS RECEIVES THE APPROVED DOCUMENTS
AND CLARIFICATION OF ALL DETAILS.

DISCLAIMER

THESE MATERIALS ARE DISTRIBUTED BY SMITH & LOVELESS, INC. ("S&L"), WHICH HAS
RECENTLY ACQUIRED THE SMITH & LOVELESS DIVISION OF ECODYNE CORPORATION.
S&L IS SOLELY RESPONSIBLE FOR THEIR CONTENTS.

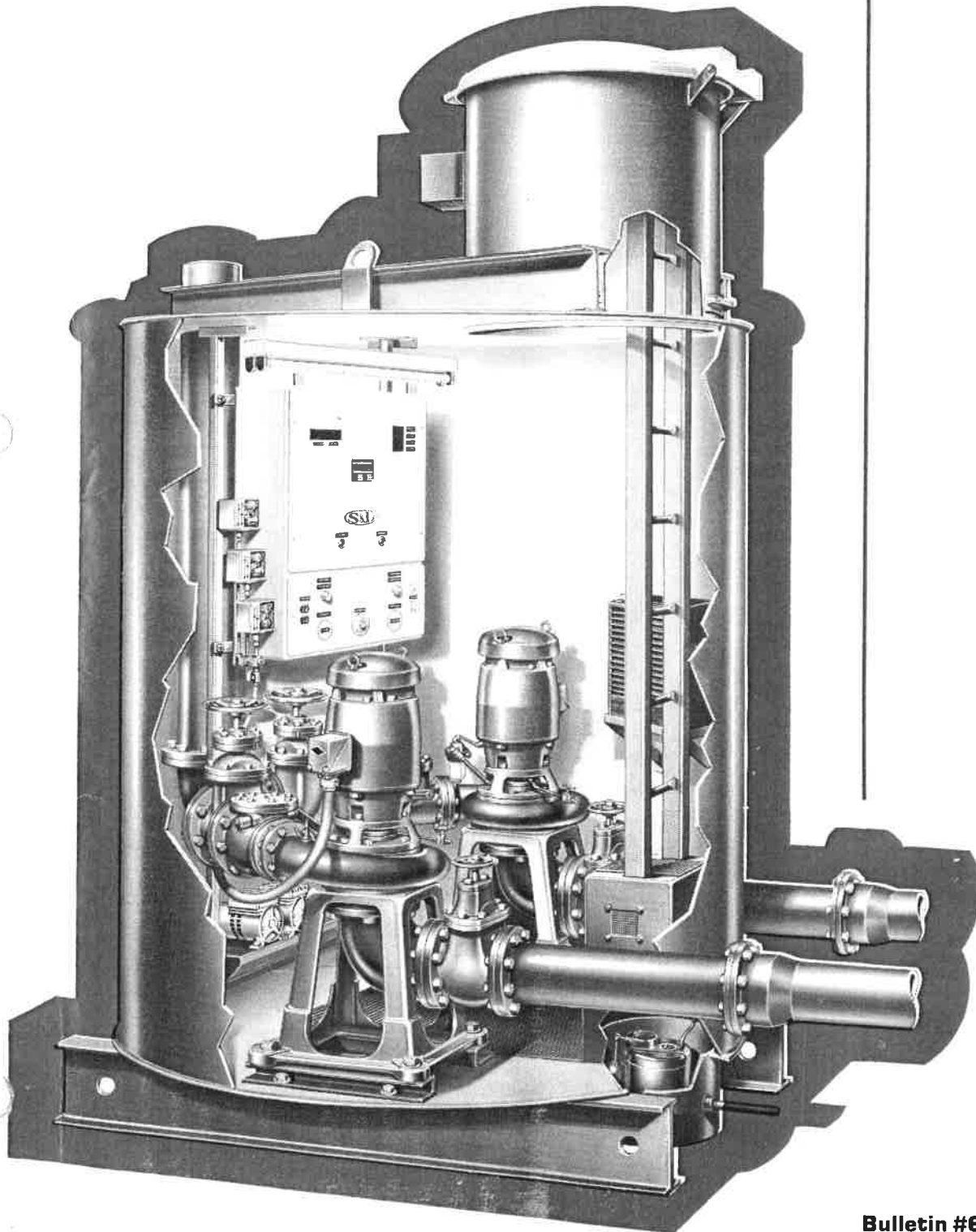
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BE READ AS IF THE NAME OF ECODYNE HAD BEEN DELETED WHEREVER IT APPEARS.
S&L DISCLAIMS ANY INTEREST IN SUCH NAME.

Custom Series Pump Stations



Smith & Loveless

Factory-built pump stations available in capacities in excess of 50,000 GPM



Bulletin #603KB

**PUMP STATION ENGINEERING ORDER
CUSTOM SERIES**

(PAGE 1 OF 1)
Form No. 04-06-82 (Rev.11/83)

LOCATION <u>WHITE HOUSE, TN.</u>	STATION SERIAL NO. <u>08-8223-U</u>
OWNER <u>Moore Construction Co., Inc.</u>	ENGINEER <u>White, Taylor, Walker</u>

1. Station Size Custom (Dia.) 8'-0" Height 9'-6" Sump Pump Part No. 8L1
2. Suction Piping (P.E.) (Stl.) (~~Std~~) Pump 1 6" Pump 2 6" Pump 3 _____ Pump 4 _____
3. Suction (~~Gate~~) (Plug) Valve Pump 1 6" Pump 2 6" Pump 3 _____ Pump 4 _____
4. Pump Discharge (~~Gate~~) (Plug) Valve Pump 1 4" Pump 2 4" Pump 3 _____ Pump 4 _____
5. Common Discharge Outlet (P.E.) (Stl.) (~~Std~~) Size 4"
6. Entrance Tube 36" Dia. x ~~12'-6"~~ 14'-6"± Long (VERIFY) 7L277 w/
7. Main Conduit Size 2" Aux. Conduit 1) 1/2" (Describe) Alarm Blower Part No. 6" vent
8. Electrical Service System Data: * 3 Phase 60 Cycle 460 Volts 4 Wire
9. 110V Single Phase Current (not) Not 3 KVA Trans. Req'd. 460 V to 120 VAC
10. Depth of Bury Ground Elevation to Base Pad 22'20" - 0'18" Base Reinforcing Package (Yes) (~~NO~~)

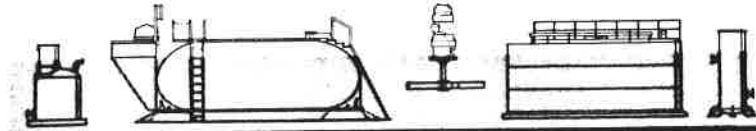
PUMP & MOTOR DATA * ELECTRICAL SERVICE IS 480/277 volt, 3 φ 4 WIRE "WYE" CONNECTION

PUMP DATA	PUMP 1	PUMP 2	PUMP 3	PUMP 4
Design Characteristics (GPM@TDH)	100 @ 221'	100 @ 221'		
Pump Model	4D4A	4D4A		
Impeller Diameter	14 3/8"	14 3/8"		
Rotation (CW) (CCW)	CW	CCW		
S&L Mech. Seal-Filter Ass'y (Size)	3"	3"		
Pump Serial Number				
MOTOR DATA (INVENTORY CODE)				
Horsepower	50	50		
R. P. M.	1760	1760		
Phase/Cycle/Volts	3/60/460	3/60/460		
Motor Serial No. (Code Ltr.)				
Squirrel Cage (SC) or Wound Rotor (WR)	SC	SC		
Special Modifications				
Across-The-Line (AL) or Part Winding (PW) Start	<u>PW</u>	PW		

CONTROL PANEL DATA TYPE NEMA I WIRING DIAGRAM NO. _____

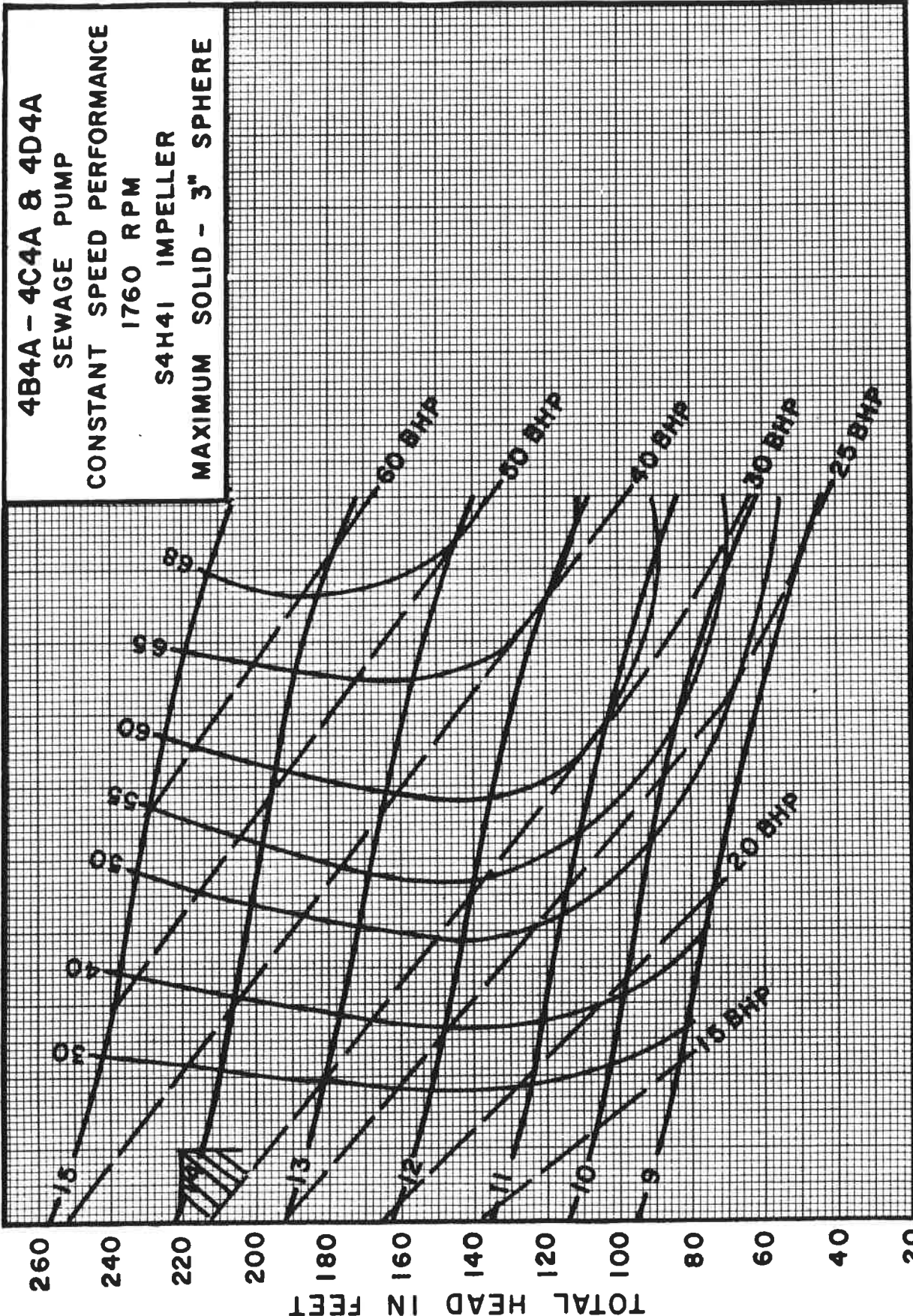
MOTOR CONTROL EQUIPMENT	PUMP 1	PUMP 2	PUMP 3	PUMP 4
Circuit Breaker - Trip Rating - Amps <u>100</u>	4L258CL	4L258CL		
Magnetic Starter - Nema Size <u>3</u>	4L330DD	4L330DD		
O.L. Coil No. FH				

AUXILIARY CIRCUIT BREAKERS	LIGHTS	BLOWER DEHUMIDIFIER	SUMP PUMP	AIR COMPRESSORS & CONTROL	TRANSFORMER
Trip Rating-Amps	<u>15</u>	<u>20</u>	<u>15</u>	<u>15</u>	-

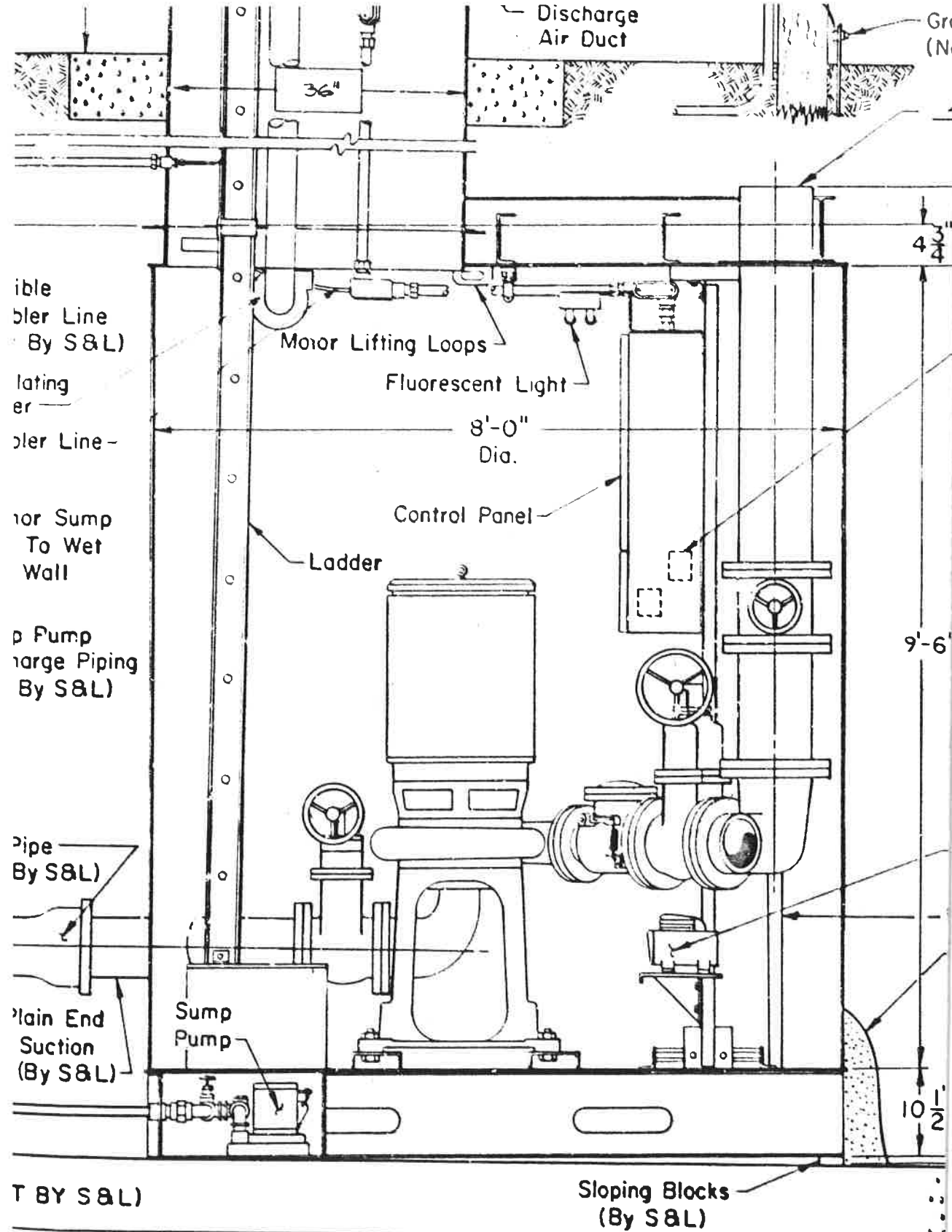


Pump Performance Curves
 Constant Speed
 4B4A/4C4A/4D4A
 1760 RPM

Smith & Loveless Engineering Data 
 A Division of Ecodyne Corporation • Main Plant: Lenexa, Kansas 66215



100 G.P.M. @ 221 T.D.M.
 S&L S/N: 08-8223-U
 Portland Rd.



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