

Missoula City Council
Public Works Committee Agenda

Date: October 9, 2019, 9:00 am - 9:55 am
Location: City Council Chambers
140 W. Pine Street, Missoula , MT
Members: Stacie Anderson, Julie Armstrong, Mirtha Becerra, John DiBari, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, Heidi West

1. ADMINISTRATIVE BUSINESS

1.1 Roll Call

1.2 Approval of the Minutes from September 25, 2019 1

2. PUBLIC COMMENT ON ITEMS NOT ON THE AGENDA

3. COMMITTEE BUSINESS

3.1 Resolution Requesting Distribution of Remaining Funds from MDT's Bridge and Road Safety and Accountability Program Brian Hensel 8

Recommended motion:

Adopt a resolution requesting that MDT distribute the City of Missoula's remaining allocated share of Bridge and Road Safety and Accountability Program funds for the current year, committing to the City's contribution of five percent in matching funds, and authorizing the Mayor to execute further documents as may be necessary for the distribution of funds.

3.2 Informational Item—Emergency Award of Wylie Ave. Water Main Insulation Project Ross Mollenhauer 14

Recommended motion:

No motion—informational only.

3.3 Wastewater Main Influent Pump Upgrade Ross Mollenhauer 21

Recommended motion:

Approve and authorize the Mayor to sign the purchase agreement with Falcon Environmental Corporation to purchase one influent pump for a sum not to exceed \$58,708.00.

3.4 Reserve Street Lift Station Construction Ross Mollenhauer 48

Recommended motion:

Award the bid for construction services on the Reserve Street Lift Station to Western Municipal Construction for an amount not to exceed \$839,625.00 and authorizes the return of bid bonds.

- 3.5 Purchase of one (1) Case Front End Loader for Garden City Compost** Scot Colwell 54
- Recommended motion:**
Approve the purchase of one (1) 2019 Case 921G Backhoe from Titan Machinery of Missoula, Montana for \$284,836.80.
- 3.6 Purchase of Street Division Pickup** Scot Colwell 57
- Recommended motion:**
Approve the purchase of one (1) 2019 Dodge 2500 4-wheel drive Regular cab pickup from Lithia Dodge of Missoula for the purchase price of (\$36,077.00).
- 3.7 Purchase of Street Division Pickup** Scot Colwell 60
- Recommended motion:**
Approve the purchase of one (1) 2019 Dodge 3500 4-wheel drive Regular cab pickup from Lithia Dodge of Missoula Montana for the purchase price of (\$39,436.00).
- 3.8 Purchase one (1) One Ton Truck for Street Dept.** Scot Colwell 63
- Recommended motion:**
Approve the purchase of one (1) 2020 Ford F350 4-wheel drive Regular cab pickup from National Auto Fleet Group, this purchase is through Sourcewell formerly known as NJPA for the purchase price of (\$34,177.00).
- 3.9 Waiver of Missoula Municipal Code Chapter 9.30 Noise Control for MDT at Orange Street Underpass for concrete testing.** Troy Monroe 73
- Recommended motion:**
Approve a waiver from MMC 9.30 Noise Control for HDR Inc., an engineering contractor for the Montana Department of Transportation, for concrete borings in the Orange Street underpass.

4. ADJOURNMENT

Missoula City Council Public Works Committee Minutes

**September 25, 2019, 10:40 am
City Council Chambers
140 W. Pine Street, Missoula , MT**

Members present: Stacie Anderson, John DiBari, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, Heidi West

Members absent: Julie Armstrong, Mirtha Becerra

1. ADMINISTRATIVE BUSINESS

1.1 Roll Call

1.2 Approval of the Minutes from September 18, 2019

The minutes were approved as submitted.

2. PUBLIC COMMENT ON ITEMS NOT ON THE AGENDA

3. COMMITTEE BUSINESS

3.1 Purchase Agreement with Advanced Utility Systems for Customer Information System (CIS) Licenses

Dennis Bowman, Interim Public Works Director, spoke on the purchase agreement for Customer Information System (CIS) licenses. Missoula Water has been using the CIS system from Advanced Utility Systems since the early 2000s. In order to combine billing, more licenses must be obtained. These licenses will include water, storm water, and wastewater and be financed by the three corresponding Enterprise Funds.

There will be instant savings as a result of combined billing. Currently, Missoula Water sends out monthly bills; wastewater and storm water bills are mailed bi-annually.

Customer service will also be significantly improved. It will be more convenient for customers to receive one bill, and instead of paying two large sewer bills, the cost will be spread throughout the year. Mr. Bowman spoke on the variety of ways bills can be received and paid by customers. The pertinent information is available on the City's website. Also, the quarterly Public Works newsletter is being sent out soon to customers.

Moved by: Bryan von Lossberg

Approve and authorize the Mayor to sign a purchase agreement with Advanced Utility Systems for four additional CIS licenses at a cost not to exceed \$41,250.00.

AYES: (8): Stacie Anderson, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSENT: (3): Julie Armstrong, Mirtha Becerra, and John DiBari

Vote results: Approved (8 to 0)

3.2 Johnson Controls Service Agreement with Missoula Water

Dennis Bowman spoke on a service agreement between Missoula Water and Johnson Controls. Because they have provided routine maintenance in the Missoula Water building for many years, Johnson Controls is very knowledgeable with the current system. They have serviced the boiler and heating/cooling system, changed filters, and completed many other tasks.

Formerly, there were annual service contracts with corresponding increases. This five-year service agreement will lock in the price of work provided by Johnson Controls.

Moved by: Heather Harp

Approve and authorize the Mayor to sign a five-year service agreement with Johnson Controls for the Missoula Water building at a cost not to exceed \$47,656.

AYES: (8): Stacie Anderson, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSENT: (3): Julie Armstrong, Mirtha Becerra, and John DiBari

Vote results: Approved (8 to 0)

3.3 Professional Services Agreement Amendment #1 with Territorial Landworks, Inc. for 3rd Street Water Main Replacement Project

Logan McInnis, Utilities Engineer, discussed the professional services agreement amendment with Territorial Landworks, Inc (TLI) for the 3rd Street Water Main Replacement project. Under the previous agreement, TLI's work was only for the design phase of the project. This included: preliminary project assessment; planning and design; fieldwork and surveying; and Department of Environmental Quality approvals and submittals.

This contract amendment will extend TLI's services throughout the remainder of the project. Services will include bidding; construction administration services; staking; testing; and project closeout.

The current 3rd Street water main dates back to at least 1914. Approximately 1,700 feet of 6-inch kalamain pipe will be replaced with 8-inch pipe. The Street Maintenance Division is also prioritizing this section of 3rd Street for repairs.

Costs associated with the 3rd Street main replacement project will be paid from the Water Fund.

Moved by: Heather Harp

Approve and authorize the Mayor to sign a Professional Services Agreement Amendment with Territorial Landworks, Inc. for bidding and construction administration services on the 3rd Street Water Main Replacement Project for a cost not to exceed \$62,070.

AYES: (8): Stacie Anderson, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSENT: (3): Julie Armstrong, Mirtha Becerra, and John DiBari

Vote results: Approved (8 to 0)

3.4 Agreement with MDT for 5th and 6th Street Urban Pavement Preservation Project

Brian Hensel, Street Maintenance Superintendent, spoke on the agreement with the Montana Department of Transportation for 5th and 6th Street Urban Pavement Preservation Project. It is not related to the current traffic reconfiguration that is happening on those streets. Both streets are Federal Urban Aid routes. This MDT pavement preservation mill and overlay project will happen in the 2020 construction season.

This is a requirement from MDT for HFWA to release the pavement preservation funds. The City will benefit from the project, which is valued at approximately \$1.3 million dollars. The City agreed to upgrade portions of both 5th and 6th Streets which did not meet MDT standard for pavement preservation funds. Those upgrades are nearly complete, and the City brought all ADA ramps along these routes up to current ADA standards.

Next year, MDT will mill and overlay the entire corridor on 5th and 6th Streets, from Russell Street to Higgins Avenue. The City agrees to maintain the new project in which MDT is investing.

Moved by: Jesse Ramos

Approve and authorize the Mayor to sign a construction agreement with the Montana Department of Transportation for the 5th and 6th Street Urban Pavement Preservation Project.

AYES: (8): Stacie Anderson, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSENT: (3): Julie Armstrong, Mirtha Becerra, and John DiBari

Vote results: Approved (8 to 0)

3.5 Professional Services Agreement with Territorial Landworks, Inc. for the East Pine Street Water Main Replacement Project

Logan McInnis, Utility Engineer, discussed the professional service agreement with Territorial Landworks, Inc. for the East Pine water main replacement project. The work will be on Pine Street from Madison to Adams. The existing 12-inch main is estimated to have been installed in 1914; it will be upsized to 24-inch main.

On Jefferson from Pine to Spruce, the old 12-inch main will be replaced with new 12-inch main. On Spruce, there will be a block of service swaps. The new 6-inch service line will

tie into the new, larger main. It will take approximately two weeks for the project to be completed.

Moved by: Heather Harp

Approve and authorize the Mayor to sign a professional services agreement with Territorial Landworks, Inc. for engineering-related services on the East Pine St Water Main Replacement Project at a total cost not to exceed \$67,518.00.

AYES: (8): Stacie Anderson, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSENT: (3): Julie Armstrong, Mirtha Becerra, and John DiBari

Vote results: Approved (8 to 0)

3.6 Professional Services Agreement with Territorial Landworks, Inc. for the Worden Ave Water Main Replacement Project

Logan McInnis, Utility Engineer, spoke on the professional service agreement with Territorial Landworks, Inc. for the Worden Avenue water main replacement project. Approximately 2100 feet of 4- and 6-inch kalamein pipe, installed in the early 1900s, will be replaced during construction. There have been a large number of leaks along Worden and Howell Street.

Costs associated with this project will be paid from the Water Fund.

Moved by: Heather Harp

Approve and authorize the Mayor to sign a professional services agreement with Territorial Landworks, Inc. for engineering-related services on the Worden Ave Water Main Replacement Project at a total cost not to exceed \$85,068.00.

AYES: (8): Stacie Anderson, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSENT: (3): Julie Armstrong, Mirtha Becerra, and John DiBari

Vote results: Approved (8 to 0)

3.7 Reserve Street Lift Station Pump

Logan McInnis, Utility Engineer, spoke on the Reserve Street lift station project. The Reserve Street lift station is one of the biggest in Missoula and those pumps are in definite need of repair. This project is being designed to completely replace the lift station. The pumps need to be purchased directly to allow for lead time. The project's bid for construction is currently out; however, it is not advisable to wait for the contracts to be in place. By purchasing the pumps ahead of time, the standard 15 to 20 percent contractor markup is avoided.

This project is a deviation from the standard lift station design. The Flygt pumps are impressive at moving solids and the efficiencies are significantly improved. Pat Brook, Wastewater Collection Superintendent, referenced the rehab of the Expressway lift

station. The pumps and control panel were purchased ahead of time, which significantly reduced the length of that project.

The City will receive the same warranty on the Reserve Street lift station pumps as if purchased by a contractor. Equipment for the project will be paid through the Wastewater Enterprise Fund.

Moved by: Julie Merritt

Approve and authorize the Mayor to sign the contract with Xylem for \$114,934.40 to purchase the Flygt pump and control panel for the Reserve Street Lift Station Rehabilitation Project.

AYES: (8): Stacie Anderson, Heather Harp, Jordan Hess, Gwen Jones, Julie Merritt, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSENT: (3): Julie Armstrong, Mirtha Becerra, and John DiBari

Vote results: Approved (8 to 0)

3.8 Professional services agreement for Lower Miller Creek Road Reconstruction project

Kevin Slovarp, City Engineer, spoke on the professional services agreement with WGM Group for Lower Miller Creek Road reconstruction. This project is intended to improve safety, capability, and mobility for all modes of transportation. This will be achieved by reconstructing the road between Linda Vista Boulevard and Big Fork Lane.

The public and area residents need to be consulted to determine their wishes for reconstruction. That information will need to be processed, and a construction funding package will also be necessary.

The design work will include curb/gutter, sidewalk, bike lanes, and lighting at three locations. The sidewalk will tie into the existing one; also, there will be a roundabout in this project. There will be a connection all the way to Jeannette Rankin School. Safety and mobility are primary concerns for the elementary school students that walk and ride their bikes.

To create an opportunity for public engagement, WGM will host several design meetings to gather people's thoughts, see which improvements are desired, and determine what will fit in the corridor. City engineering will be reaching out to individual property owners, as well, to gather information, take it to the public, and ask for feedback. Final project design touches will be made after that.

Professional services for this Lower Miller Creek Road reconstruction project will be funded from Transportation Impact Fees.

Moved by: Heather Harp

Approve and authorize the Mayor to sign the WGM Group professional services agreement for the Lower Miller Creek Road Reconstruction project in the amount not to exceed \$126,912.00

AYES: (8): Stacie Anderson, John DiBari, Heather Harp, Jordan Hess, Gwen Jones, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSTAIN: (1): Julie Merritt

ABSENT: (2): Julie Armstrong, and Mirtha Becerra

Vote results: Approved (8 to 0)

3.9 St. Patrick's Hospital W. Pine Street Right-of-Way Vacation Between May and McCormick Streets

Mary McCrea, Development Services, spoke on St. Patrick Hospital's West Pine Street right-of-way vacation. Additionally, she discussed the proposed building and parking. The southerly thirty-three feet of West Pine Street between May Street and McCormick Street are proposed to be vacated.

In order to leave the Century Link cables intact, the revised project plans reduced the size of vacation from 40 feet to 33 feet.

NorthWestern Energy requested a 10-foot wide utility easement for their natural gas main pipeline. They requested that the easement be reflected/recorded in the amended plat, in order to protect their access rights. The easement can be extinguished upon relocation of the pipeline.

Missoula Water indicated that the City will be replacing the existing water main with 12-inch main on West Pine Street from McCormick Street to the railroad tracks. New water main construction is scheduled for Spring 2020.

Staff recommended four conditions of approval for this project. Those details are available to the public online in the referral document.

Jeff Smith, a representative from WGM Group offered a presentation regarding the proposed Saint Patrick Building at 600 West Broadway. The applicant states that the parking structure will provide approximately 500 new off-street parking spaces for hospital patients, visitors and employees. This will reduce the hospital's parking demand on the existing on-street parking in the neighborhood. The building geometry necessary to create this parking structure requires that the building extend north into the existing West Pine Street right-of-way.

There will be a pedestrian crossing between two buildings. The plaza area will create a healing environment for staff and visitors. Existing lighting will be relocated, all four corners of the property will be improved, and there will be a landscaped boulevard.

In order to improve traffic flow around the area, thirty diagonal on-street parking spots will be lost. The plan is to install a traffic circle at Pine and McCormick to calm traffic.

Board members discussed multi-modal transportation needs, the new building's proximity to downtown, and the 'all day, every day' nature of work at the hospital. There will be bus stops on both sides of the building and a large number of bike parking spots for employees.

The Design Excellence review is ongoing, with PRT meetings and DRT meetings already taken place. If the project design to be submitted in mid-October does not meet Design Excellence criteria, an application for variance will be necessary.

Once the resolution of intention is adopted, an October 28, 2019 public hearing will be scheduled and advertised. Building permits for this project will be obtained in November 2019. This will be an extensive project with a projected end date in 2023.

Moved by: Heather Harp

Adopt a resolution of intention to vacate the southerly thirty-three (33) feet of the W. Pine Street right-of-way between May and McCormick Street adjacent to property legally described as Lots 11 – 20, Block 41 and Lots 1 – 10, Block 50 of W.J. McCormick's Addition in Section 21, Township 13 N, Range 19 W, P.M.M., as shown in Exhibit A, and subject to the conditions of approval and set a public hearing for October 28, 2019.

AYES: (8): Stacie Anderson, John DiBari, Heather Harp, Jordan Hess, Gwen Jones, Jesse Ramos, Bryan von Lossberg, and Heidi West

ABSTAIN: (1): Julie Merritt

ABSENT: (2): Julie Armstrong, and Mirtha Becerra

Vote results: Approved (8 to 0)

4. ADJOURNMENT



City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Resolution Requesting Distribution of Remaining Funds from MDT's Bridge and Road Safety and Accountability Program

Date: October 3, 2019

Sponsor(s): Brian Hensel

Prepared by: Lori Hart

Ward(s) Affected:

<input checked="" type="checkbox"/> Ward 1	<input type="checkbox"/> Ward 4
<input type="checkbox"/> Ward 2	<input type="checkbox"/> Ward 5
<input type="checkbox"/> Ward 3	<input checked="" type="checkbox"/> Ward 6
<input type="checkbox"/> All Wards	<input type="checkbox"/> N/A

Action Required:

Adopt a resolution requesting funds from the Montana Department of Transportation's (MDT) Bridge and Road Safety and Accountability Program (BaRSAA), committing to the contribution of matching funds, and authorizing the Mayor to execute further documents as may be necessary for the distribution of funds.

Recommended Motion(s):

I move the City Council: Adopt a resolution requesting that MDT distribute the City of Missoula's remaining allocated share of Bridge and Road Safety and Accountability Program funds for the current year, committing to the City's contribution of five percent in matching funds, and authorizing the Mayor to execute further documents as may be necessary for the distribution of funds.

Timeline:

Referral to committee:	October 7, 2019
Committee discussion:	October 9, 2019
Council action (or sets hearing):	N/A
Public Hearing:	N/A
Deadline:	N/A

Background and Alternatives Explored:

This resolution has been prepared in accordance with MDT's policies for the distribution of BaRSAA funds. A copy of the guidance memo prepared by the Montana League of Cities and Towns is attached. The program enables local governments to leverage five percent in matching funds against state gas tax dollars for local roadway improvements.

Funds have been allocated to the City of Missoula for 2019 in the amount of \$874,446.55. In April 2019, Public Works staff recommended \$795,202.00 of those funds be directed to specific improvement projects with the understanding that they would return to Council at a later date to allocate the remaining funds. Staff would now like to recommend the remaining \$79,244.55 be directed to the improvement projects shown in Appendix A of the proposed resolution.

Financial Implications:

Matching funds will be provided by Road District, as described in Appendix A of the resolution.

Links to external websites:

RESOLUTION NUMBER _____

**A RESOLUTION REQUESTING DISTRIBUTION OF
BRIDGE AND ROAD SAFETY AND ACCOUNTABILITY PROGRAM FUNDS**

WHEREAS, the Bridge and Road Safety and Accountability Account created by HB 473 requires the Montana Department of Transportation to allocate accrued funds to cities, towns, counties, and consolidated city-county governments for construction, reconstruction, maintenance, and repair of rural roads, city or town streets and alleys, bridges, or roads and streets that the city, town, county, or consolidated city-county government has the responsibility to maintain; and,

WHEREAS, a city, town, county, or consolidated city-county government that requests funds under the Bridge and Road Safety and Accountability Account must match each \$20 requested with \$1 of local government matching funds; and,

WHEREAS, a city, town, county, or consolidated city-county government requesting distribution of allocated funds may make such a request to the Department of Transportation between March 1 and November 1 of the year the funds were allocated; and,

WHEREAS, the City of Missoula had previously requested distribution of only a portion of its allocation for the current year and wishes to request the remaining funds; and,

WHEREAS, a description of the projects to be funded (and the money used to match federal funds) are detailed in Appendix A; and,

WHEREAS, the 5% local match for the allocated funds has been budgeted in the following amounts as listed below, for a total match of \$3,962.23.

- \$1,992.60 for asphalt repair on Deer Creek Rd.—Bandmann Trail to Bandmann Trail from Road District, and
- \$1,969.63 for asphalt repair on 7th St. from Kemp St. to Reserve St. and on Eaton St. from 7th St. to 8th St. from Road District.

THEREFORE, NOW BE IT RESOLVED THAT:

1. City of Missoula requests distribution of its remaining \$79,244.55 allocated share of Bridge and Road Safety and Accountability funds to be used for the projects identified in Appendix A.

2. That John Engen, the Mayor of the City of Missoula, is hereby empowered and authorized to execute such further documents as may be necessary to facilitate the distribution of said funds.

PASSED AND ADOPTED this _____ day of _____, 2019.

ATTEST:

APPROVED:

Martha L. Rehbein, CMC
City Clerk

John Engen
Mayor

(SEAL)

Appendix A

The City of Missoula's distribution and matching dollars for its remaining Bridge and Road Safety and Accountability Program Funds during the 2019 construction season will be as follows:

Project	Requested BaRSAA Funds	5% Match	Local Match Source
Deer Creek Rd.—Bandmann Trail to Bandmann Trail Asphalt Repair Project	\$39,852.00	\$1,992.60	Road District
7 th St.—Kemp St. to Reserve St. and Eaton St.— 7 th St. to 8 th St. Asphalt Repair Project	\$39,392.55	\$1,969.63	Road District
<hr/>			
Total Request	\$79,244.55	\$3,962.23	

Process for Obtaining Local Funds under HB 473 (Bridge and Road Safety and Accountability Act)

HB 473 (Rep. Frank Garner), passed by the 65th Legislature and signed by Governor Bullock on May 3, 2017, provides for a graduated increase in the motor fuel tax by fiscal year 2023 (6 cents in gasoline/2 cents in diesel). Each fiscal year, 35% or \$9.8 million of the proceeds (whichever is greater) is allocated to the Montana Department of Transportation (MDT) and the remainder (approximately \$21 million by FY2021) is allocated to local governments through a new a Bridge and Road Safety and Accountability Program (BaRSAA). This guidance document provides a roadmap of the process local governments will follow to obtain these new BaRSAA funds.

Allocation of Revenues Collected

The allocation of the motor fuel tax revenues refers to the MDT calculation of and notification to local governments of the amounts available for each entity on an annual basis. Under HB 473, MDT will begin to assess the new tax on July 1, 2017. Fuel that is distributed in a month is reported to MDT on the 25th of the following month, and the tax on that fuel is then collected 5 days later. Therefore, the first allocation of funds by MDT on March 1, 2018 will consist of the additional motor fuel tax revenues collected for July-October, 2017 ("FY2018 BaRSAA funds"). Every year thereafter, the allocation will consist of a full 12 months of collections.

MDT will allocate the collected funds to cities, towns, counties, and consolidated city-county governments using the same ratios used to distribute existing motor fuel tax revenues to local governments through the highway restricted account as set forth in Section 15-70-101(2)(b), (2)(c), and (3), MCA. The new funds will be held in a separate BaRSAA account until distributed.

Distribution of BaRSAA Allocation

The distribution of BaRSAA funds refers to the actual disbursement of allocated or reserved BaRSAA funds from MDT to local governments. Beginning March 1, 2018, local governments may *request distribution* of their allocation from MDT. Local governments must match all distributions from the BaRSAA account with a minimum 5% funding match. MDT is using the WebGrants online application system to accept requests for distribution of BaRSAA allocations by local governments. This system will allow for electronic entry of the information necessary for the distribution of funds to local governments.

A request for the distribution of funds must include:

- (a) the amount of funding sought (up to but not exceeding the amount allocated for that year and any prior years' reservations);
- (b) copy of an adopted resolution to request and accept the funding by the governing body, identifying the source of the matching funds for the distribution; and
- (c) a description of the project or projects to be funded.

BaRSAA funds can be used:

- (a) to pay for the construction, reconstruction, maintenance, and repair of rural roads, city or town streets and alleys, bridges, or roads and streets that the city, town, county, or consolidated city-county government has the responsibility to maintain; or
- (b) as the match for federal funds used for the construction of roads and streets that are part of the national, primary, secondary, or urban highway systems, or roads and streets that the city, town, county, or consolidated city-county government has the responsibility to maintain. For MDT-administered projects, the local government may request that MDT credit its BaRSAA allocation towards its local match for a federally funded project administered by MDT.

BaRSAA funds can be used to pay project costs incurred during the same fiscal year in which they are distributed. BaRSAA funds cannot be used to purchase capital equipment.

Matching local government funds can be obtained from any source except the regular gas tax allocation in 15-70-101, MCA. Potential matching fund sources include local funds shown as a budgeted expense, including general

funds; special district assessments; or state or federal funds, grants, or loans. Requests for distribution of FY2018 BaRSAA funds must be made between March 1 and November 1, 2018 (every March 1 to November 1 thereafter for the annual BaRSAA allocation).

Obligation or Saving of BaRSAA Funds

The obligation of funds by a local government occurs when the funds are committed to a project, either through a contract or inclusion as an authorized project expenditure in the adopted annual budget. Once the local government obtains its distribution of FY2018 BaRSAA funds, it may either obligate the funds or place the funds and the corresponding matching funds in a restricted asset account within the motor fuel tax apportionment to be carried forward until the funds are obligated.

Local governments must *obligate the FY2018 BaRSAA funds* by March 1, 2023 (every March 1 thereafter, 5 years after each annual allocation is made). The intent of the law is that local governments will use BaRSAA funds in a timely manner to demonstrate improvements to road infrastructure occurring as a result of the passage of HB473.

Local governments must follow applicable competitive bidding requirements when entering into contracts that exceed the thresholds provided for in 7-5-2301, MCA and 7-5-4302, MCA (currently \$80,000).

Reservation of BaRSAA Allocation

Reserve means a local government's request, by resolution, that allocated BaRSAA funds will not be distributed by MDT for up to two years. If a city, town, county, or consolidated city-county government is unable to provide the 5% match required to request a distribution of its BaRSAA funds, it may instead *request to reserve* the funds. To request a reservation of funds, the local government must submit a copy of an adopted resolution to request to reserve the funds. MDT is also using the WebGrants online system to accept requests for reservation of BaRSAA funds.

Once a local government obtains the required 5% matching funds, it may request distribution of the funds – and any eligible reserved funds from prior years – beginning the following March 1, as set forth above. The local government must request the distribution of reserved funds by November 1 of the fiscal year 2 years after the request to reserve the funds, or its BaRSAA allocation is forfeited and added to the account for allocation among all the local governments during the next allocation.

Requests for reservation of FY2018 BaRSAA funds must be made between September 1, 2018 and November 1, 2018 (every September 1-November 1 of the fiscal year after the fiscal year in which BaRSAA funds are allocated).

Annual Reports and Remaining Funds

Local governments must submit an *annual report* to MDT that provides an update on all approved projects, describes any changes to the list of projects funded with BaRSAA monies, and final project costs, if known. When a project funded by BaRSAA monies is completed, the local government will indicate on its final annual report that the project has been completed. Annual reports for the previous fiscal year will be due to the MDT by December 31 of each year, to align the BaRSAA reporting deadline with that required for local government annual financial reports to the Department of Administration in 2-7-503, MCA.

If any BaRSAA funds obligated to a project remain unspent upon project completion, the local government must notify MDT within 90 days of project completion that the local government intends to use the funds for additional projects within the 5-year time period for use of the funds, or intends to remit any unused funds to MDT. Funds remitted to MDT are added to the BaRSAA account for allocation among all the local governments during the next allocation.

MDT is required to establish a website where the projects funded with BaRSAA allocations will be identified for each local government. To facilitate this transparency of information, MDT is also using the WebGrants online system to accept annual and unspent funding reports.



City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Informational Item—Emergency Award of Wylie Ave. Water Main Insulation Project

Date: October 3, 2019

Sponsor(s): Ross Mollenhauer

Prepared by: Lori Hart

Ward(s) Affected:

- | | |
|--|---------------------------------|
| <input checked="" type="checkbox"/> Ward 1 | <input type="checkbox"/> Ward 4 |
| <input type="checkbox"/> Ward 2 | <input type="checkbox"/> Ward 5 |
| <input type="checkbox"/> Ward 3 | <input type="checkbox"/> Ward 6 |
| <input type="checkbox"/> All Wards | <input type="checkbox"/> N/A |

Action Required:

No action required—informational only.

Recommended Motion(s):

No motion—informational only.

Timeline:

Referral to committee:	October 7, 2019
Committee discussion:	October 9, 2019
Council action (or sets hearing):	N/A
Public Hearing:	N/A
Deadline:	N/A

Background and Alternatives Explored:

This referral is an informational item to notify Council that Missoula Water finds it necessary to employ the emergency provisions provided in the City's Procurement Policy (see below) for the Wylie Ave. Water Main Insulation Project. Time is of the essence for this project because the project requires pavement to be removed and replaced in order to insulate a water main that froze last year. The hot plant that makes asphalt is set to quit producing asphalt for the year very soon. Missoula Water feels that Wylie Ave. should not remain unpatched throughout the winter and until the hot plant reopens in the spring. The project was not able to be bid earlier because distribution crews have been pre-occupied with more pressing, larger projects. Due to the Indigenous Peoples holiday on Oct. 14, 2019, Missoula Water will not be able to follow the usual process for referring a construction contract to Council for consideration by the Public Works Committee and receive final approval from Council before the hot plant closure. Therefore, Missoula Water believes it is necessary to move forward with this project on an emergency basis.

The contract was put out for bid on a limited solicitation basis, and Western Excavating submitted the lowest qualified bid. Missoula Water will request that the Mayor sign a construction contract with Western Excavating for \$36,500.

From City's Procurement Policy:

C. *Emergencies. Under very limited circumstances, the Mayor and the Procurement Officer may need the flexibility to make an emergency purchase. Such purchases are typically made outside of the normal purchasing procedures due to the sudden and unexpected situation that requires immediate action. The following procedures must be considered when making a determination regarding an emergency purchase.*

- i. The purchase shall be limited to the supplies or services necessary to address the emergency;*
- ii. Competition to the extent practical shall be obtained;*
- iii. The City Council shall be notified as soon as possible about the need for emergency purchases and/or contracts;*
- iv. The department making the emergency purchase shall maintain a file of each emergency purchase, including the vendor's name, a list of supplies or services purchased and the amounts, and a brief description of the emergency conditions justifying the purchase.*

Financial Implications:

Project included in Missoula Water's approved FY20 budget.

Links to external websites:

Wylie Ave Water Main Insulation Project:

Scope of Services

1. The Project shall be Performed According to the Listed Attachments

- A. Wylie Hydrant Exhibit (attached)
- B. Project Area Exhibit (attached)
- C. Missoula Water Standards and Specifications (online)

2. Time Frame and Temperatures

The contractor must submit their quote by noon on September 30th. The City anticipates having everything ready for the contractor to start work on October 22nd. The contractor will have 2 weeks to complete the work once they start, all work must be done by Nov 11th.

3. General Requirements

3.1 City of Missoula Laws and Regulations:

- 3.1.1 Any contractors engaged in public work in the City of Missoula are required to have a license from the City of Missoula based upon the nature of the work. A bond is also required for each type of work in the City of Missoula. Licenses are obtainable at the office of Development Services, City Hall, Missoula, Montana.
- 3.1.2 Non-discrimination: All hiring shall be on the basis of merit and qualification and there shall be no discrimination in employment on the basis of race, ancestry, color, physical or mental disability, religion, natural origin, sex, age, marital or familial status, creed, ex-offender status, physical conditions, political belief, public assistance status, sexual orientation, gender identity or expression, except where these criteria are reasonable bona fide occupational qualifications.
- 3.1.3 Affirmative action policy: Contractors, subcontractors, sub grantees, and other firms doing business with the City of Missoula must be in compliance with the City of Missoula's Affirmative Action Plan, and Title 49 Montana Codes Annotated, entitled "Human Rights" or forfeit the right to continue such business dealings.

The City of Missoula's Affirmative Action Policy statement is:

"The mayor of the City of Missoula or the Mayor's designee may adopt an affirmative action plan to provide all persons equal opportunity for employment without regard to race, ancestry, color, handicap, religion, creed, national origin, sex, age, and marital status. In keeping with this commitment, we are assigning to all department heads and their staff the responsibility to actively facilitate equal employment opportunity for all present employees, applicants, and trainees. This responsibility shall include assurance that employment decisions are based on furthering the principle of equal employment opportunity by imposing only valid requirements or employment and assuring that all human resource actions are administered on the basis of job necessity.

Specific responsibility for developing, implementing, monitoring, and reporting are assigned to the City Personnel staff under the supervision and direction of the Chief Administrative Officer and the Mayor.

It is the policy of the City of Missoula to eliminate any practice or procedure that discriminates illegally or has an adverse impact on “affected” class. Equal opportunity shall be provided for all City employees during their terms of employment. All applicants for city employment shall be employed on the basis of their qualifications and abilities.

The City of Missoula, where practical, shall utilize minority owned enterprises and shall ensure that subcontractors and vendors comply with this policy. Failure of subcontractors and vendors to comply with this policy statement shall jeopardize initial, continued, or renewed funds.

Our commitment is intended to promote equal opportunity in all employment practices and provide a positive program of affirmative action for the City of Missoula, its employees, program participants, trainees, and applicants.”

3.2 Compliance with Labor Standards and Wage Rate Requirements:

- 3.2.1 For public works projects, pursuant to MCA 18-2-422, all laborer and mechanics employed by the CONTRACTOR(s) or subcontractors in performance of construction projects with a total cost in excess of \$25,000, shall be paid, minimum wages in conformance with the prevailing State Wage Rates published by the Montana Department of Labor and Industry. The prevailing wage rate schedules are included herein. The OWNER does not guarantee that labor can be procured for the minimum wages shown on the referenced schedules. The rates of wages listed are minimum only, below which the CONTRACTOR cannot pay, and they do not constitute a representation that labor can be procured for the minimum listed
- 3.2.2 The minimum wages included in the Project Manual are not controlling except as to the minimum for the purpose of Montana State Law or the Davis-Bacon Act; therefore, it is incumbent upon each employer to pay the standard prevailing rate of wages including fringe benefits for health and welfare and pension contributions, and travel allowance provisions in effect and applicable to the county or locality in which the work is being performed. The CONTRACTOR and all subcontractors are directed to the Montana Commissioner of Labor for information on the standard prevailing rate of wages applicable to this contract within this project area.
- 3.2.3 “Standard Prevailing Rate of Wages” is defined by Section 18-2-401 MCA, as including wages, fringe benefits for health and welfare and pension contributions and travel allowance which are paid in the county or locality by other contractors for work of a similar character performed in that county or locality by each craft, classification or type of worker needed to complete a contract.
- 3.2.4 Any infraction of the Laws of the State of Montana covering Labor, Title 39, Chapters 1 through 73, MCA will be forwarded to the State of Montana Department of Labor and Industry.
- 3.2.5 “Travel Allowance”, in effect at the time of contract award, and according to latest information received by the State of Montana Department of Labor and Industry, Labor Standards Division, shall be adhered to where applicable.
- 3.2.6 Travel allowance if applicable, may or may not be all inclusive of “travel” and/or subsistence and travel time due employees. It is incumbent on the employer to determine the amounts due for each craft employed according to the method of computation outlined for each craft where applicable.

- 3.2.7 To comply with Montana Law Section 18-2-406 MCA, the Contractor shall post in a prominent and accessible site on the project work area, not later than the first day of work, a legible statement of all wages to be paid to the employees employed on the project.

3.3 General Notes:

- 3.3.1 During construction, it shall be the responsibility of the contractor to protect existing utility lines. Contractor is required to verify the exact location of all underground utilities by using the Montana one-call service for utility locates.
- 3.3.2 The contractor shall notify the City immediately should any conflicts exist between the attached plans and what is found in the field.
- 3.3.3 The contractor shall obtain all the necessary permits, at his expense, to complete the proposed work and shall comply with all local, state, and federal regulations.
- 3.3.4 The contractor shall notify appropriate personnel for utility locations and notice of construction commencement.
- 3.3.5 Contractor shall protect all adjacent improvements (buildings, roadways, fences, parking lots, utilities, sidewalks, curbs, gutter, park recreation improvements, trees, etc) from damage and erosion. All disturbed areas shall be restored to their condition at the time the work began.
- 3.3.6 All site civil construction shall be in accordance with the attached plans, Montana Public Works Standard Specifications (MPWSS, 6th Edition), City of Missoula Specifications, and Missoula Water Standard Specifications.

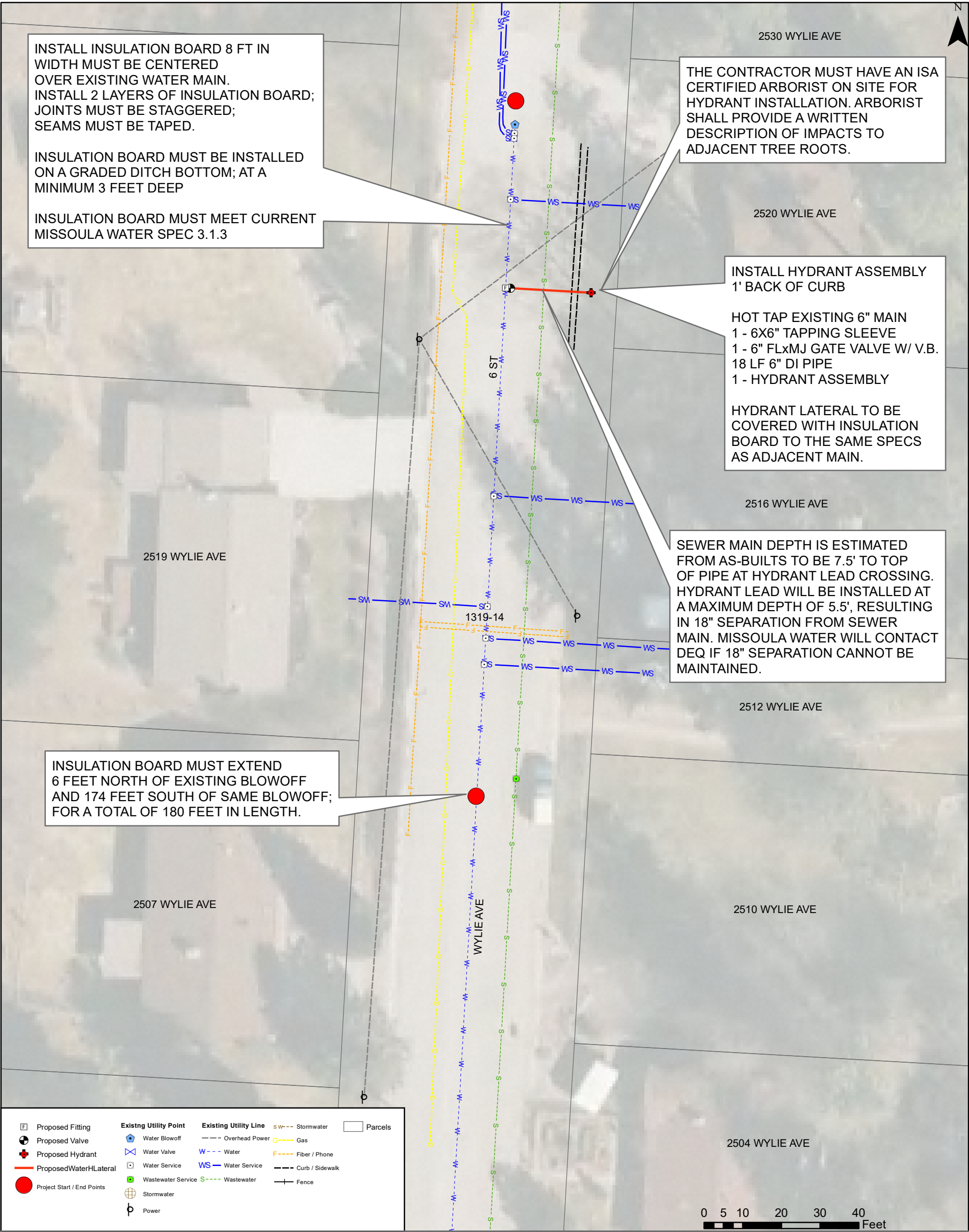
Changes

Any changes to this Scope or Quotation shall be preapproved in writing or e-mail by the Wastewater Facility Superintendent.

4. Quoted Cost

**Quotation
Total**

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GENERAL NOTES

1. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS, AT CONTRACTOR EXPENSE, TO COMPLETE THE PROPOSED WORK AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
2. THE CONTRACTOR SHALL NOTIFY APPROPRIATE PERSONNEL FOR UTILITY LOCATIONS AND NOTICE OF CONSTRUCTION COMMENCEMENT TWO BUSINESS DAYS PRIOR TO START OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL PROTECT ALL ADJACENT IMPROVEMENTS (BUILDINGS, ROADWAYS, FENCES, PARKING LOTS, UTILITIES, TREES, ETC.) FROM DAMAGE AND EROSION. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION. EXISTING LAWN AREAS SHALL BE RESTORED WITH SOD AND 4" MINIMUM THICKNESS OF TOPSOIL.
4. ALL SITE CIVIL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MONTANA PUBLIC WORKS STANDARD SPECIFICATIONS (5TH EDITION), UNIFORM BUILDING CODE, AND MOST CURRENT VERSION OF MISSOULA WATER SPECIFICATIONS. SEE MISSOULA WATER STANDARD DRAWING SD-1 FOR HYDRANT DETAIL.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISINFECTING AND CONDUCTING BACTI AND PRESSURE TESTS ON THIS INSTALLATION IN ACCORDANCE WITH MISSOULA WATER SPECIFICATIONS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TRAFFIC CONTROL AND KEEPING A MINIMUM OF 1 LANE OPEN FOR LOCAL TRAFFIC.



MISSOULA WATER

1345 E Broadway
Missoula, MT 59802
PHONE: 406-552-6700

WATER MAIN INSULATION
NEW HYDRANT

T13 R19 S14

PROJ NO	DATE
2019-	SEPT 2019
DRAWN BY	APPROVED
LTM	LMM
	SHEET
	1 OF 1



City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Wastewater Main Influent Pump Upgrade

Date: October 2, 2019

Sponsor(s): Ross Mollenhauer

Prepared by: Gene Connell / Amy Dennis

Ward(s) Affected:

<input type="checkbox"/> Ward 1	<input type="checkbox"/> Ward 4
<input type="checkbox"/> Ward 2	<input type="checkbox"/> Ward 5
<input type="checkbox"/> Ward 3	<input type="checkbox"/> Ward 6
<input type="checkbox"/> All Wards	<input checked="" type="checkbox"/> N/A

Action Required:

Approve and authorize the Mayor to sign the purchase agreement with Falcon Environmental Corporation to purchase one influent pump for a sum not to exceed \$58,708.00.

Recommended Motion(s):

I move the City Council: approve and authorize the Mayor to sign the purchase agreement with Falcon Environmental Corporation to purchase one influent pump for a sum not to exceed \$58,708.00.

Timeline:

Referral to committee:	October 7, 2019
Committee discussion:	October 9, 2019
Council action (or sets hearing):	n/a
Public Hearing:	n/a
Deadline:	n/a

Background and Alternatives Explored:

This pump will replace one of three existing main influent pumps. These existing pumps have a history of excessive wear and premature failure. This replacement pump has been specified and designed to overcome these issues. The result will be a more robust, higher capacity pump with reduced maintenance costs. This pump selection was performed using a limited solicitation quote process in accordance with the City of Missoula Administrative Rule 3, Part 8(C).

Financial Implications:

Wastewater enterprise funds will be used to fund this project.

Links to external websites:

PURCHASE AGREEMENT

THIS AGREEMENT is made and entered into this 22nd day of October, 2019, by and between the **CITY OF MISSOULA, MONTANA**, a municipal corporation organized and existing under the laws of the State of Montana, 435 Ryman, Missoula, Montana 59802, hereinafter referred to as “City,” and **Falcon Environmental Corp**, whose principal place of business is located at PO Box 710 Fredrick, CO 80530, hereinafter referred to as “Supplier.”

In consideration of the mutual covenants and agreements herein contained, the parties agree as follows:

1. **Purpose:** City desires to obtain products as described in the Quotation attached as Exhibit A. The terms and conditions of the Quotation, and any promises, covenants, and warranties made in Proposal are hereby made part of this Agreement.

2. **Effective Date:** This Agreement is effective upon the date of its execution.

3. **Payment:** Upon receipt by the City of the parts in Exhibit A, the City of Missoula shall pay Supplier in accordance with the total price of Fifty-Eight Thousand, Seven Hundred and Eight Dollars (\$58,708). The payment shall be full compensation for pump, parts and freight as described on attached quote.

4. **Insurance and Warranties:** Supplier shall provide any insurance or express warranty requirements outlined in the Request for Proposals or as stated in Supplier’s Proposal.

5. **Merchantability:** Supplier agrees that the products and services supplied will confirm to the specifications stated in the Supplier’s Proposal, and will function and conform to the standards of the industry.

6. **Nondiscrimination and Affirmative Action:** Consultant agrees and shall comply with the following Non-Discrimination and Affirmative Action policies:

NON-DISCRIMINATION. All hiring shall be on the basis of merit and qualification and there shall be no discrimination in employment on the basis of race, ancestry, color, physical or mental disability, religion, national origin, sex, age, marital or familial status, creed, ex-offender status, physical condition, political belief, public assistance status, sexual orientation or gender identity/expression, except where these criteria are reasonable bona fide occupational qualifications.

AFFIRMATIVE ACTION POLICY. Contractors, subcontractors, sub grantees, and other firms doing business with the City of Missoula must be in compliance with the City of Missoula's Affirmative Action Plan, and Title 49 Montana Codes Annotated, entitled "Human Rights" or forfeit the right to continue such business dealings.

The City's Affirmative Action Policy Statement is:

The Mayor of the City of Missoula or the Mayor's designee may adopt an affirmative action plan to provide all persons equal opportunity for employment without regard to race, ancestry, color, handicap, religion, creed, national origin, sex, age, sexual orientation, gender identity or expression or marital status. In keeping with this commitment, we are assigning to all department heads and their staff the responsibility to actively facilitate equal employment opportunity for all present employees, applicants, and trainees. This responsibility shall include assurance that employment decisions are based on furthering the principle of equal employment opportunity by imposing only valid requirements for employment and assuring that all human resource actions are administered on the basis of job necessity.

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Our commitment is intended to promote equal opportunity in all employment practices and provide a positive program of affirmative action for the City of Missoula, its employees, program participants, trainees and applicants.

7. Default and Termination: If either party fails to comply with any condition of this Agreement at the time or in the manner provided by Exhibit A, the other party, at its option, may terminate this Agreement and be released from all obligations if the default is not cured within ten days after written notice is provided to the defaulting party. Said notice shall set forth the items to be cured. Additionally, the non-defaulting party may bring suit for damages, specific performance, and any other remedy provided by law. These remedies are cumulative and not exclusive. Use of one remedy does not preclude use of the others.

City may terminate this Agreement at any time by giving 30 days' written notice to

Purchase Agreement: City of Missoula and Falcon Environmental Corp

Supplier's liaison of such termination and specifying the effective date thereof at least thirty days before the effective date of such termination. If this Agreement is terminated by City as provided herein, Supplier shall be paid for all products supplied pursuant to this Agreement until the date of termination.

Notices shall be provided in writing and hand-delivered or mailed to the parties at the addresses set forth in the first paragraph of this Agreement.

8. Modification and Assignability: This Agreement may not be enlarged, modified or altered except by written agreement signed by both parties hereto. The Supplier may not subcontract or assign Supplier's rights, including the right to compensation or duties arising hereunder, without the prior written consent of City. Any sub-Supplier or assignee will be bound by all of the terms and conditions of this Agreement.

9. Liaison: City's designated liaison with Supplier is Gene Connell with the City of Missoula's Wastewater Division and Supplier's designated liaison with City is Jordan Jimenez.

10. Applicability: This Agreement and any extensions hereof shall be governed and construed in accordance with the laws of the State of Montana.

11. Venue: Any litigation arising out of the terms of this Agreement shall be conducted in the Fourth Judicial District of Montana, Missoula County. Supplier expressly consents to the jurisdiction of this Court, and agrees to this venue.

12. Signing of Contract: The contract may be signed in counterparts and signed electronically by all parties.

IN WITNESS WHEREOF, the parties hereto have executed this instrument the day and year first above written.

CITY OF MISSOULA

SUPPLIER

By _____
Mayor John Engen

Falcon Environmental Corp.

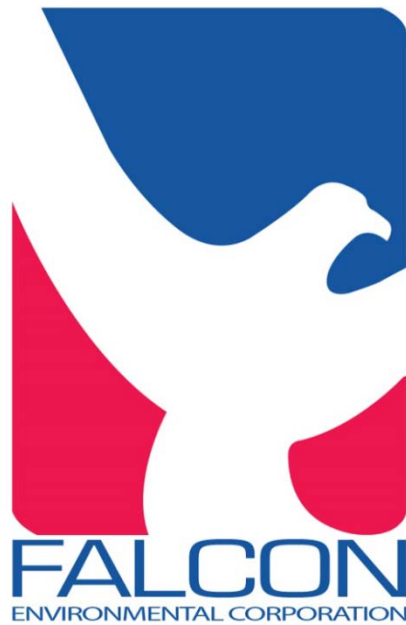
ATTEST

Martha L. Rehbein, CMC, City Clerk

Exhibit A

**MISSOULA WWTP
INFLUENT PUMPING
SULZER-ABS SUBMERSIBLE PUMP QUOTE**

Area Rep:



303-833-9998

**PROJECT: MISSOULA WWTP INFLUENT
PUMPS**

ENGINEER: MORRISON- MAIERLE

**EQUIPEMENT: SULZER SUBMERSIBLE
405MCB2 PE5 PE860/8
MERIDEN, CONNECTICUT
PHONE: 203-238-2700**

**AREA REP: FALCON ENVIRONMENTAL
P.O. BOX 170
FREDERICK, COLORADO**

**PREPARED BY:
JORDAN JIMENEZ
303-833-9998**

September 04, 2019

NOTES TO THE ENGINEER

1. *The same guiderail system can be used*
2. *According to the specification the New Pump can use the existing VFD since the pump only require 141 Full Load Amps. The pump Name plate is 115HP..*
3. *They can use the existing chains or lifting system.*
4. *Multiple curve have been provided for your review*



FALCON ENVIRONMENTAL CORP. AT LONGMONT

P.O. BOX 710 •, FREDERICK, CO 80530
FAX (303) 833-4009 • TELEPHONE (303) 833-9998

TO: Missoula Wastewater Treatment Plant
ATTN: Don Schmidt & Gene Connell
FROM: Jordan Jimenez
DATE: September 4, 2019
SUBJECT: Influent Pumps

The following is our equipment quotation for the above project.

405M-CB2 PE860/8 Cost: **\$58,708** (Includes Full Pump With Cooling Jacket, 5m Extra Cable, Powder or Customer approved Coating, Contra Block Style Impeller)

- Full Monitoring w/ (3) RTD's
- 65 ft of cable
- PC441 Controller, CA441 (DI aka seals RTD monitoring module), CA442 (Thermal RTD monitoring module expansion),
- Thermal Switches Embedded in Motor stator to shut down incase of over heating set to open at 140°C +/-5°C (284°F) this is done with or without the monitoring modules.
- Melonite Treatment for minimum of 600HV hardness on Impeller AND Wearplate
- Start up, Training, Inspection and Maintenance according to the specifications included in the price
- Shipping included

- A. Lead time:
3-4 weeks for submittals & 22-23 weeks for equipment delivery
- B. Motor Size: **115 HP**
- C. Motor Loading: **96 HP at Max duty point**
- D. Pump Efficiency: **78.7% WIRE TO WATER**

NOTES:

New warranty on pumps are 5 year warranty 3 year full coverage parts and labor and prorated after 3 years. Old warranty was 2 year full coverage and pro rated after two years. Please see new attached warranty statement.

Installation not included.

EXCEPTIONS:

None

Warranty: 5-year warranty, 100% 3 years, 75% 4th year, 50% 5th year

Thank you for this opportunity to quote products represented by Falcon Environmental.

Sincerely,



Jordan Jimenez

Limited Product Warranty

5 Year Pro-Rated | Municipal

XFP, AFP, AFL(X), VUP(X)* Permanent Type Installation

Manufacturer warrants the above referenced ABS brand equipment ("Products") to be free from defects in workmanship and materials as follows:

The warranty period shall be five (5) years from date of manufacturer provided startup, not to exceed 5 years 6 months from date of shipment. If authorized startup is not performed, the warranty shall be five (5) years from date of shipment. This warranty is contingent upon purchaser's or end user's payment of the applicable percentage of the list price (list price minus covered %) of the following parts in effect at time of replacement.

Warranty Coverage			
Months	0 - 36	37 - 48	49 - 60
Percentage	100% Parts / 100% Labor	75% Parts / 75% Labor	50% Parts / 50% Labor

When used in temporary/portable applications, the warranty period shall expire on the earliest of the below dates:

- i) one (1) year from date of installation of the Products; or
- ii) eighteen (18) months from date of shipment of the Products from Manufacturer.

Products or parts thereof that are replaced or repaired under warranty during the original warranty period, shall be covered under this warranty until the expiration of the original warranty period or ninety (90) days from the date of such replacement or repair, whichever is later. In any event, such extended warranty period shall not exceed ninety (90) days after the expiration of the original warranty period.

The warranties stated above are contingent upon start-up of the equipment on site by an authorized Manufacturer's representative, as verified by receipt of start-up reports completed and signed by an authorized Manufacturer's representative.

If during the warranty period, any Products fail to meet the requirements set out in this warranty, the purchaser or end user shall give written notification to Manufacturer stating the reasons therefor. Upon receipt of prior written authorization from Manufacturer, Products shall be transported to Manufacturer's authorized service center, prepaid, at purchaser or end-user's cost. Manufacturer's sole obligation shall be to repair, modify or replace Products or parts thereof, at Manufacturer's sole option. Products repaired under this warranty will be returned with freight prepaid. Products must be repaired by an authorized Manufacturer repair center for warranty coverage to be considered.

All protection features (such as moisture sensors, bearing monitors, and thermal overloads) incorporated in the Products must be connected and operable for warranty coverage. This warranty is valid only if Manufacturer supplied or authorized alarm monitoring components, cables and control components/panels are used.

This warranty shall not apply to any Products or parts thereof which have been (i) subjected to misuse, misapplication, accident, alteration, neglect, failure to act in a timely manner to address alarms/warnings, or physical damage; (ii) installed, operated, and/or maintained in a manner which is contrary to Manufacturer's written instructions as it pertains to installation, operation and maintenance of the Products, including but without limitation to being operated without being connected to monitoring devices supplied with specific products for protection; (iii) used in an application or for pumping liquids other than the use for which it is intended as specified in Manufacturer's product literature; (iv) damaged due to a defective power supply, improper electrical protection, faulty repair, ordinary wear and tear, corrosion, erosion or chemical attack, an act of God, an act of war or by an act of terrorism; (v) damaged resulting from the use of accessory equipment not sold by Manufacturer or not approved by Manufacturer for use in connection with Manufacturer's products; or (vi) repaired or altered without Manufacturer's written consent.

This warranty does not cover costs for standard and/or scheduled maintenance that is performed, nor does it cover Manufacturer's parts that, by virtue of their operation, require replacement through normal wear (aka: Wear Parts), unless a defect in material or workmanship is determined by Manufacturer. Wear Parts are defined as cutters, cutting plates, seals, bearings, impellers/propellers, diffusers, wear rings (stationary or rotating), volutes (when used in an abrasive environment), oil, grease, cooling fluids and/or any items deemed necessary to perform and meet the requirements of normal maintenance on all Manufacturer's equipment.

Manufacturer shall not be liable for any special, indirect, consequential, or punitive damages, or profit loss of any kind. Major components not manufactured by the Manufacturer are covered by the original manufacturer's warranty in lieu of this warranty. In addition to any other special, indirect or consequential damages referenced above, Manufacturer shall not be responsible for travel expenses, rented (replacement) equipment, pump removal fees, installation fees, outside contractors fees, or unauthorized repair shop expenses.

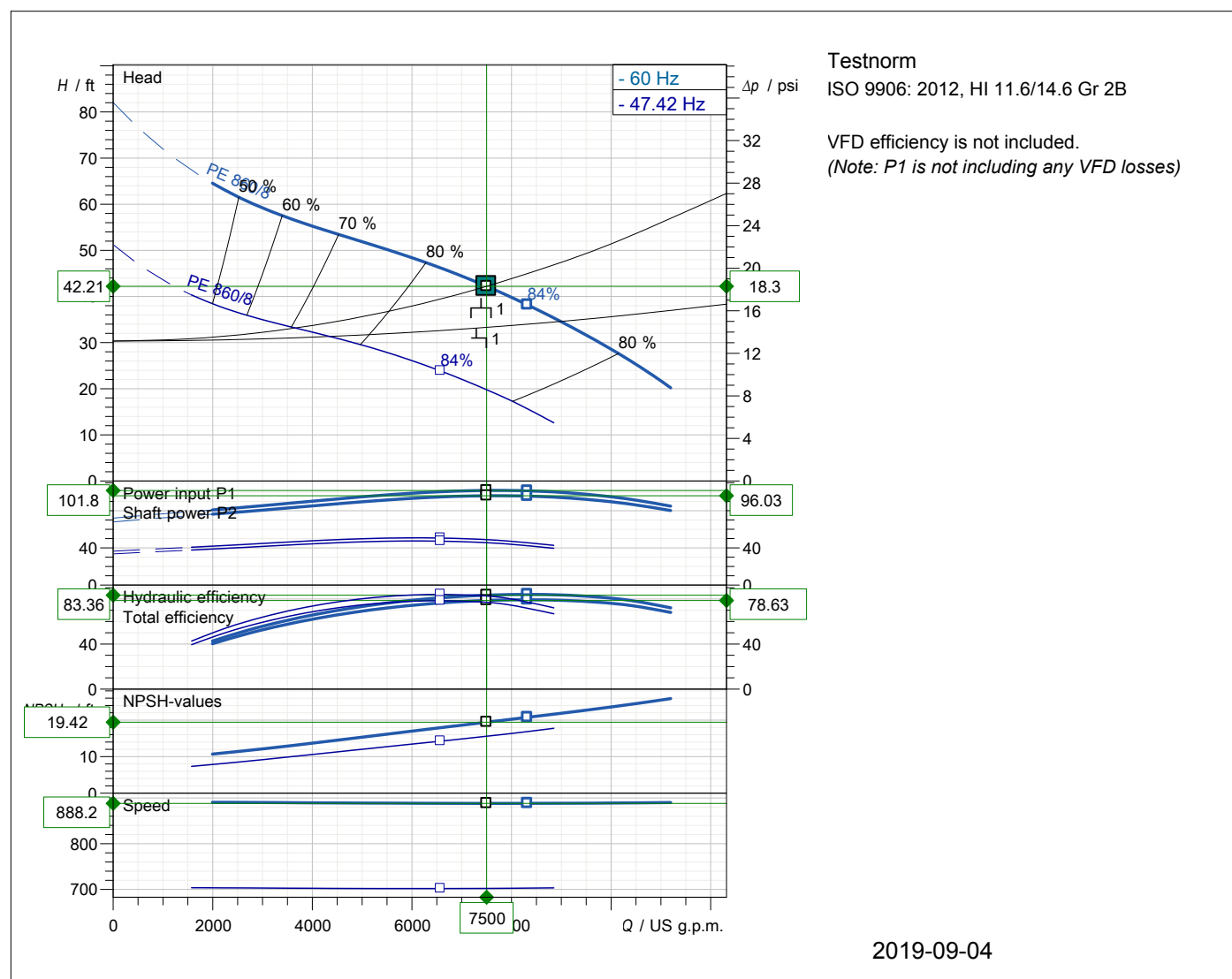
This warranty shall extend only to the initial end user.

All other warranties, conditions and representation, expressed or implied by statute, common law or otherwise, in relation to the supply of the products including but not limited to the implied warranties or merchantability and fitness for a particular purpose are excluded to the extent permitted by law.

*This warranty is applicable to Products supplied by Sulzer Pumps Solutions Inc. or Sulzer Pumps (Canada) Inc. for installation in the U.S.A. or Canada, unless specifically indicated otherwise in writing by Manufacturer.



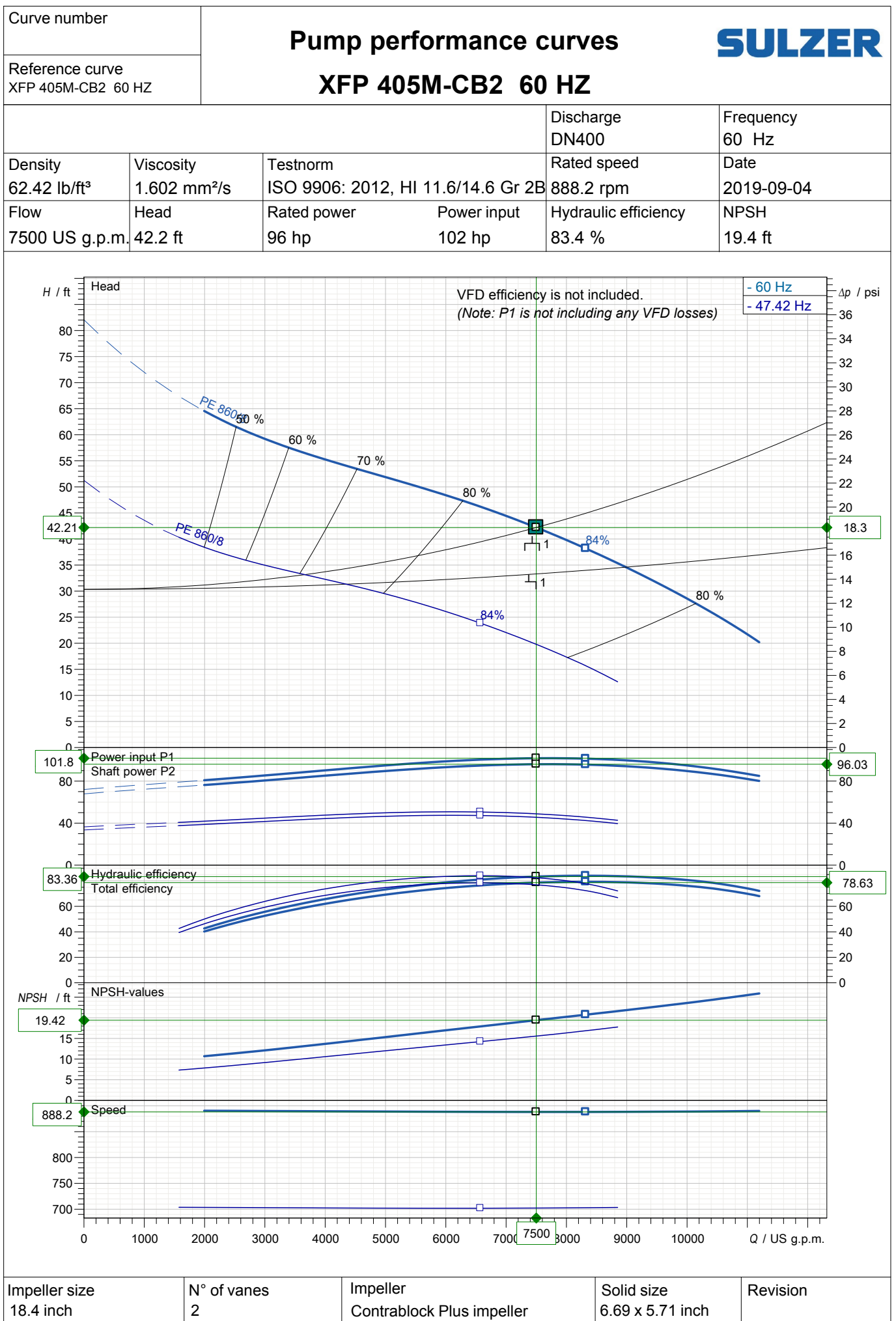
XFP 405M-CB2 60 HZ

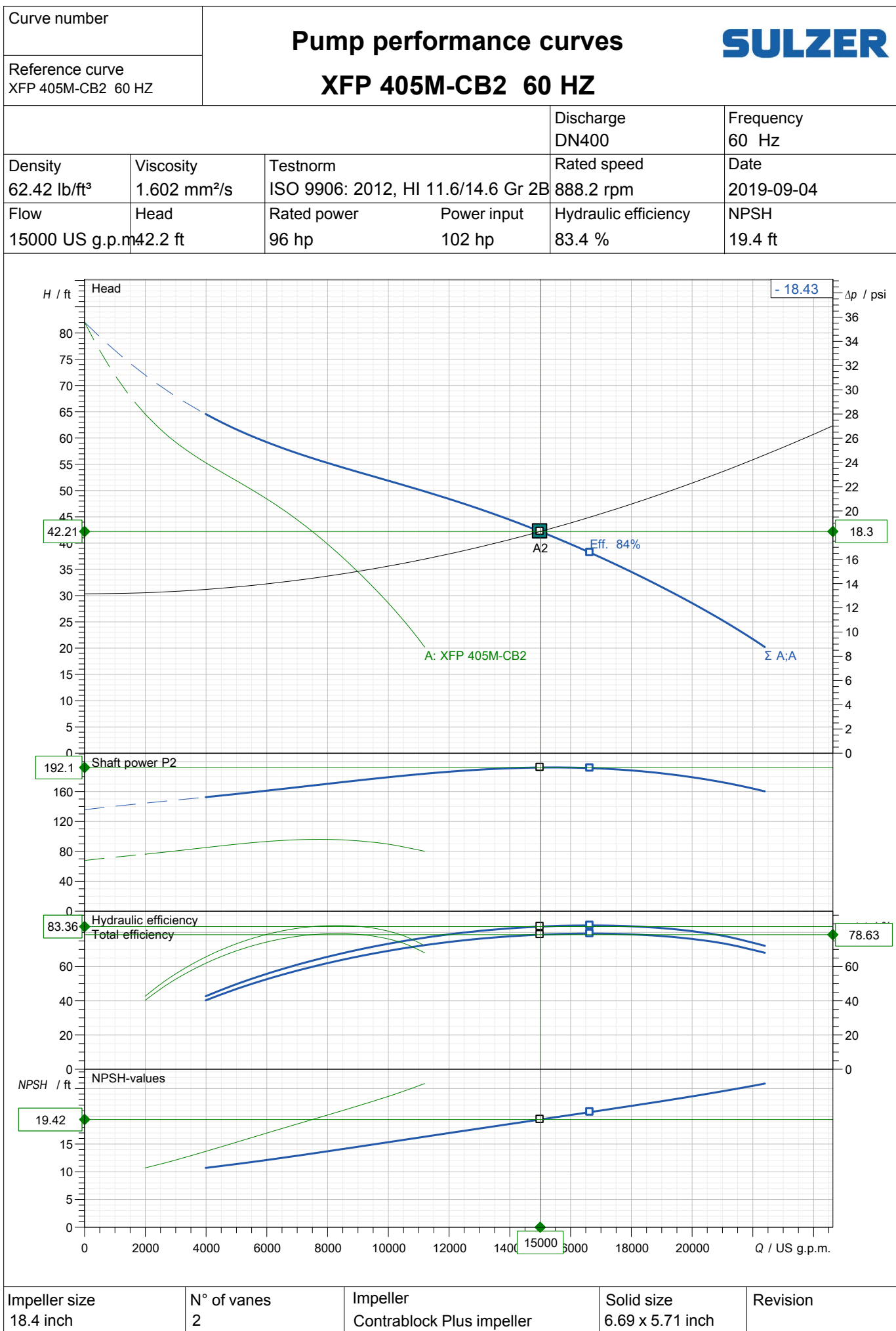


Operating data specification		Power input 102 hp	
Flow	7500 US g.p.m.	Head	42.2 ft
Efficiency	83.4 %	Rated power	96 hp
NPSH	19.4 ft	Fluid	Wastewater
Temperature	38 °F	Nature of system	Single pumps as parallel circuit
No. of pumps	2		
Pump data		Make SULZER	
Type	XFP 405M-CB2 60 HZ	Impeller	Contrablock Plus impeller
Series	XFP PE4-PE7	Impeller size	18.4 inch
N° of vanes	2	Suction flange	DN400
Free passage	6.69 x 5.71 inch	Type of installation	wet well vertical installation 2"
Discharge flange	DN400		
Moment of inertia	67.6 lb ft²		
Motor data		Frequency 60 Hz	
Rated voltage	480 V	Nominal Speed	886 rpm
Rated power P2	115 hp	Efficiency	
Number of poles	8	Rated current	135 A
Power factor	0.814	Rated torque	684 lbf ft
Starting current	1200 A	Degree of protection	IP 68
Starting torque	1910 lbf ft	No. starts per hour	10
Insulation class	H(140)		

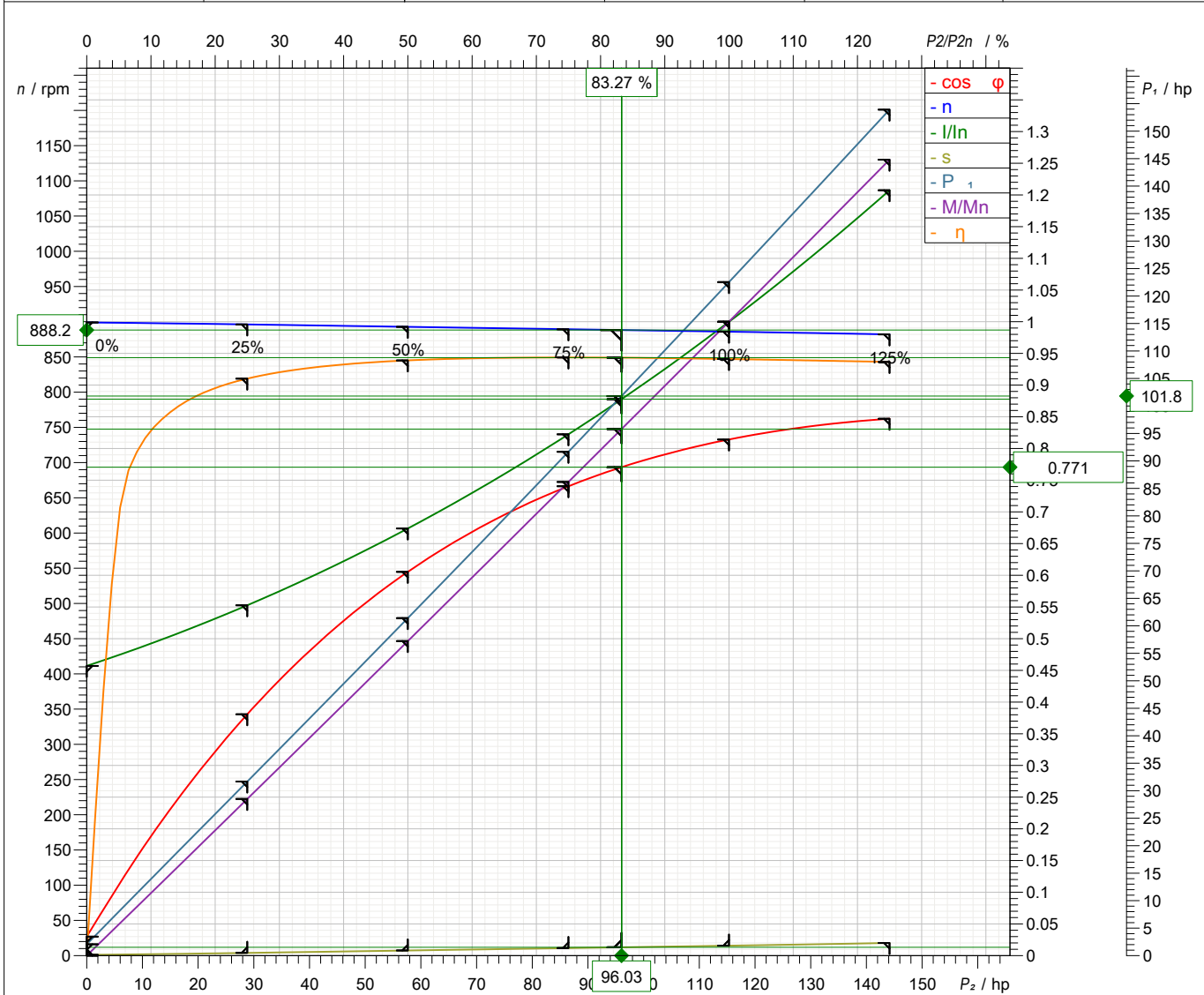
Sulzer reserves the right to change any data and dimensions without prior notice and can not be held responsible for the use of information contained in this software.

Spaix® 4, Version 4.3.11 - 2019/01/16 (Build 240)
Data version Jan 2019





Rated power 115 hp	Service factor 1.3	Nominal Speed 886 rpm	Number of poles 8	Rated voltage 480 V	Date 2019-09-04
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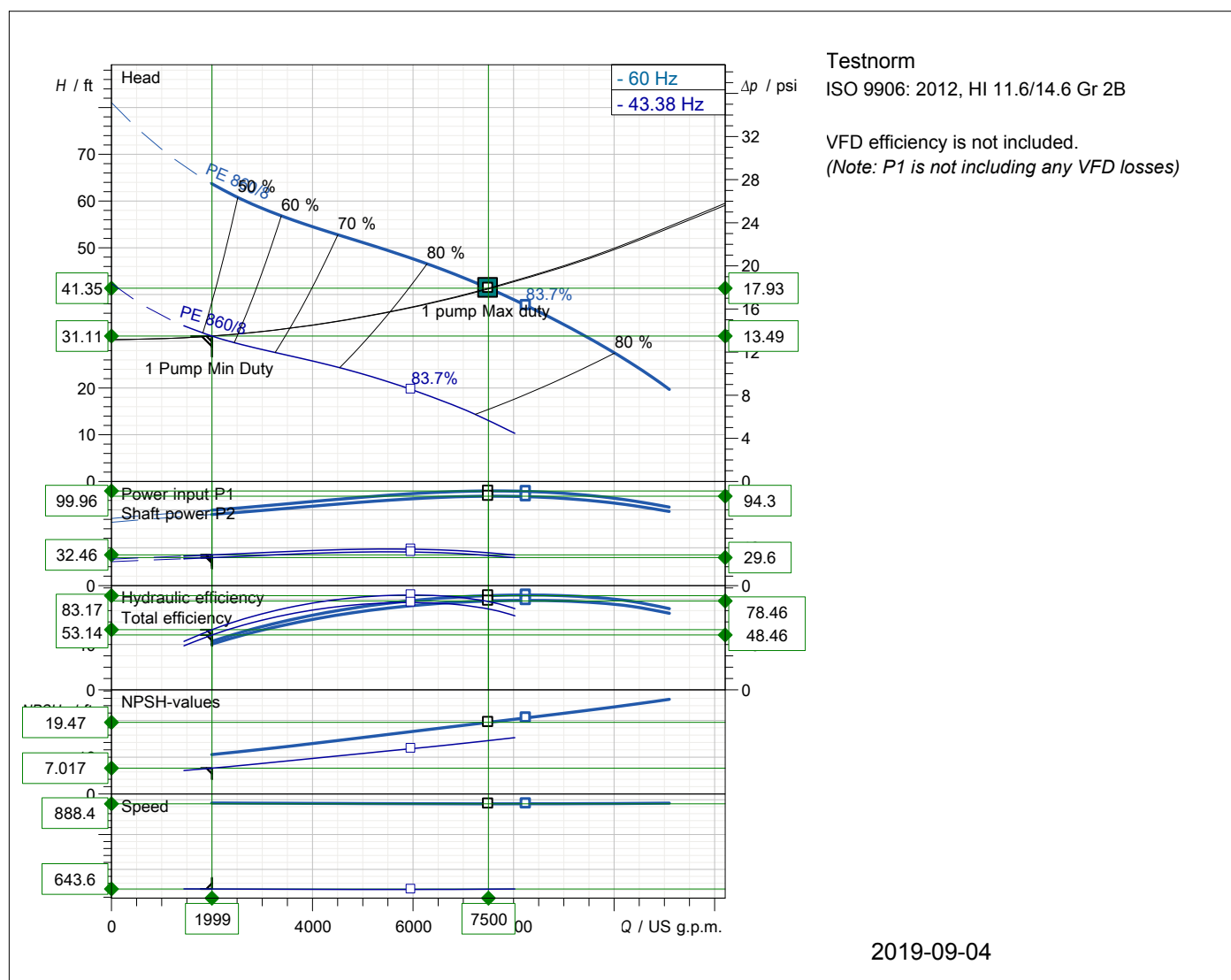


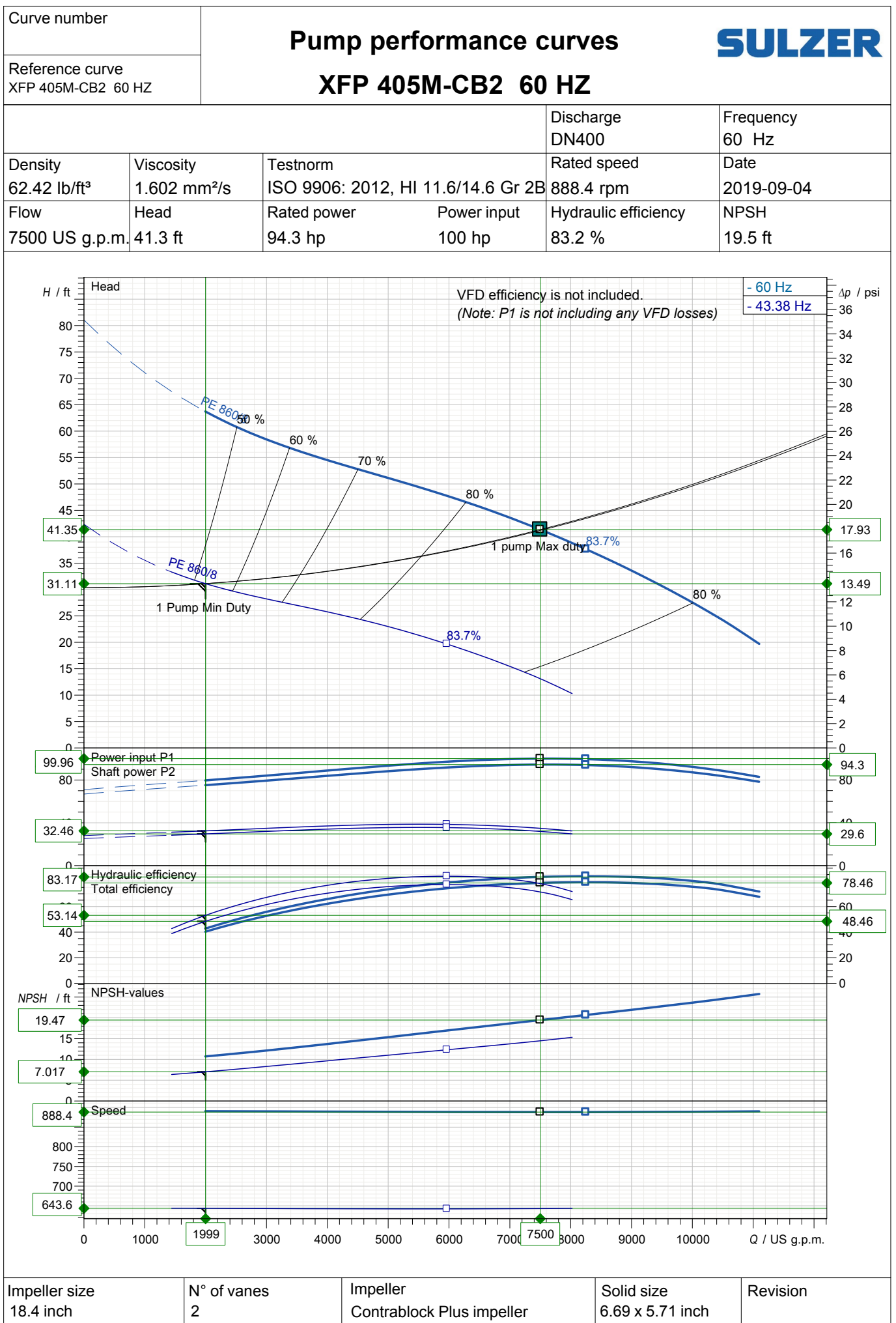
Symbol	No load	25 %	50 %	75 %	100 %	125 %
P ₂ / hp	0	28.83	57.66	86.5	115.3	144.2
P ₁ / hp	2.067	31.67	61.41	91.67	122.5	153.9
η / %	0	91.03	93.9	94.36	94.11	93.66
n / rpm	899	896.1	892.7	889.3	885.9	882
cos φ	0.03005	0.3808	0.6055	0.7405	0.8142	0.847
I / A	61.7	74.61	90.97	111	135	163
s / %	0.1142	0.429	0.8086	1.191	1.571	1.997
M / lbf ft	0	169	339.3	510.9	683.8	858.5

Tolerance according to VDE 0530 T1 12.84 for rated power

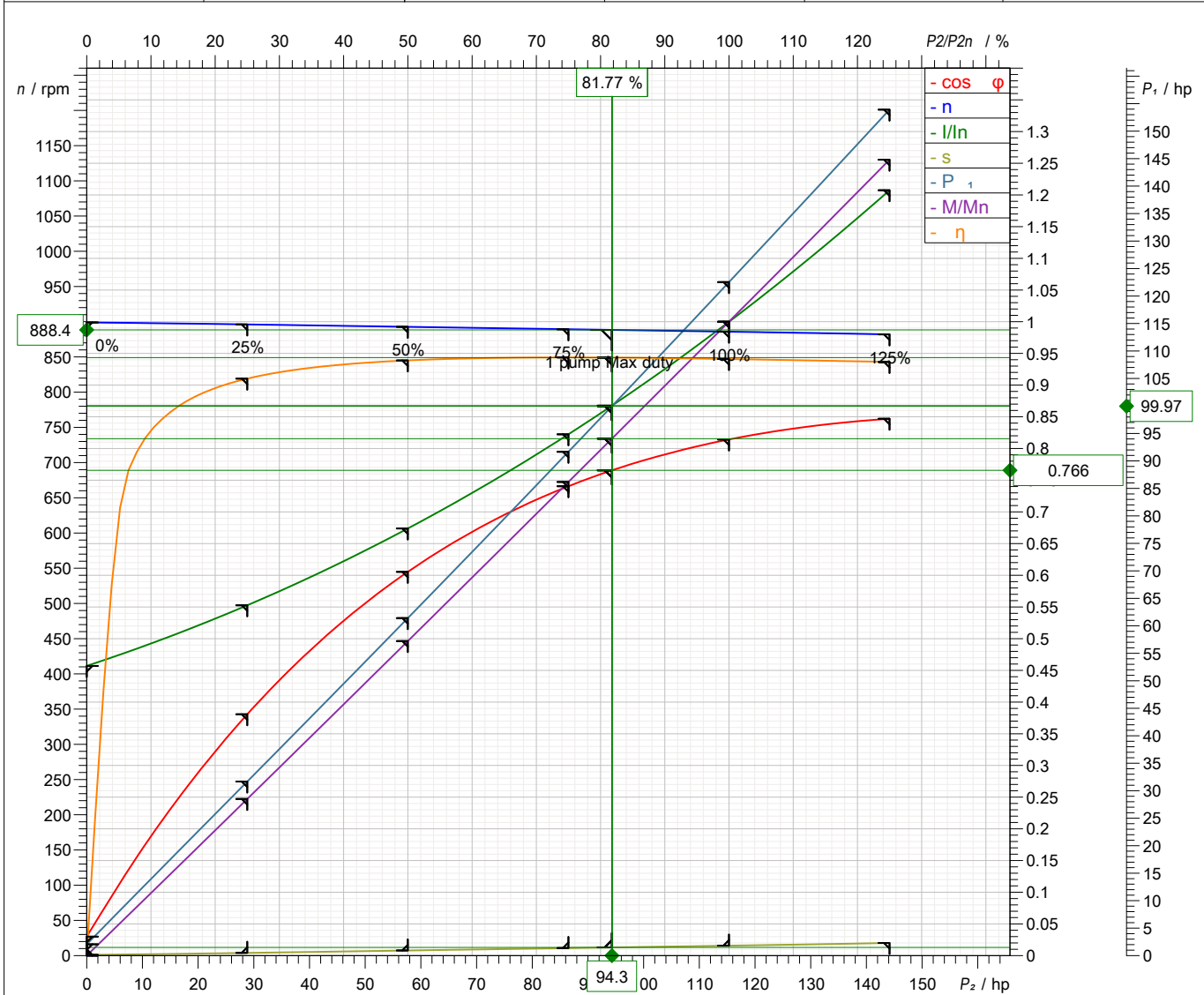
Starting current 1200 A	Starting torque 1910 lbf ft	Moment of inertia 57.2 lb ft ²	No. starts per hour 10
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XFP 405M-CB2 60 HZ





Rated power 115 hp	Service factor 1.3	Nominal Speed 886 rpm	Number of poles 8	Rated voltage 480 V	Date 2019-09-04
-----------------------	-----------------------	--------------------------	----------------------	------------------------	--------------------



Symbol	No load	25 %	50 %	75 %	100 %	125 %
P_2 / hp	0	28.83	57.66	86.5	115.3	144.2
P_1 / hp	2.067	31.67	61.41	91.67	122.5	153.9
η / %	0	91.03	93.9	94.36	94.11	93.66
n / rpm	899	896.1	892.7	889.3	885.9	882
$\cos \phi$	0.03005	0.3808	0.6055	0.7405	0.8142	0.847
I / A	61.7	74.61	90.97	111	135	163
s / %	0.1142	0.429	0.8086	1.191	1.571	1.997
M / lbf ft	0	169	339.3	510.9	683.8	858.5

Tolerance according to VDE 0530 T1 12.84 for rated power

Starting current 1200 A	Starting torque 1910 lbf ft	Moment of inertia 57.2 lb ft ²	No. starts per hour 10
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Submersible Sewage Pump Type ABS XFP

XFP 405M-CB2 | 16", 8 Pole, 3-Phase, 60 Hz, PE5

Submersible Motor Specifications, PE5 Frame

Motor Design	NEMA design B, squirrel cage induction	
Motor Type	Fully enclosed Premium Efficiency submersible, IP68 protection rating	
Motor Efficiency Standard and Rating	IEC 60034-30 ² , IE3 rating	
Motor Efficiency Test Protocol	IEC 60034-2-1	
Insulation Material	Class H, 180°C (356°F), copper windings	
Motor Filling Medium	Air	
Temperature Rise	Class A	
Maximum Fluid Temperature	40°C (104°F) continuous, 50°C (122°F) intermittent	
Cooling System	OPT	Closed-loop, non-toxic glycol/water mixture (1/3 / 2/3)
Thermal	<100 HP	Normally closed bimetallic switch in each phase, connected in series, 140°C (284°F) +/- 5°C (41°F) opening temperature
	STD	Normally closed bimetallic switch in each phase, connected in series, 140°C (284°F) +/- 5°C (41°F) opening temperature, plus 100Ω RTD (PT100) in winding, upper bearing, and lower bearing
	>=100 HP	STD (>=100 HP) plus: three 100Ω RTDs (PT100) in windings in lieu of one
	>=100 HP	STD (>=100 HP) plus: three 100Ω RTDs (PT100) in windings in lieu of one
Motor Protection	<100 HP	STD (<100 HP) plus: upper and lower bearing bimetallic switches or 100Ω RTD (PT100) in winding (option of one RTD or three RTDs in stator) and RTDs in lieu of upper and lower bearing bimetallic switches
	>=100 HP	STD (>=100 HP) plus: three 100Ω RTDs (PT100) in windings in lieu of one
Leakage	<100 HP	Moisture detection probe in seal sensing chamber (for use with appropriate relay)
	>=100 HP	Moisture detection probe in seal sensing chamber, motor housing, and junction chamber (for use with appropriate relay)
Vibration	OPT	STD plus: probes in motor housing and junction chamber
	OPT	Vibration sensor (4-20 mA) in junction chamber
Sensing Chamber Filling	Medium	Oil
Bearing Type	Upper	Cylindrical roller, permanently lubricated
	Lower	STD plus: electrically insulated
Motor Starter Types	Suitable for use with electronic soft starters, and PWM type Variable Frequency Drives ¹	
Maximum Starts per Hour	10 evenly spaced w/ soft starters; N/A with PWM type VFDs	
Inverter Duty Rating	Motors meet NEMA MG1, part 31 requirements	
Maximum Submergence	20 meters (65 feet)	
Available Voltages	230, 460, 600 (consult factory for other voltages)	
Voltage Tolerance from Rated	+/-10%	
Agency Approvals	Factory Mutual, CSA	
Explosion Proof Rating	NEC 500 Class 1, Division 1, Group C & D, Class T3C max surface temp	

XFP CB2 PLUS



if wanted the CA531 Module will need to be added not included in pricing

The picture above may be used for illustration only.

¹ Output filters may be required on VFDs. See document DS-E00-001 for details.

² Eight pole motors are not covered by the 1.0, 2008-10 edition of the IEC standard, however the PE series of motors are constructed and tested in accordance with the IEC 60034-30 standard.

Motor Ratings, PE5 Frame

Motor Model	Input Power (P1)	Rated Power Output (P2)	Nominal RPM	Rated Voltage	Full Load Amps	Locked Rotor Amps	NEMA Code Letter	NEMA Service Factor	Motor Efficiency at % Load			Power Factor at % Load		
									100	75	50	100	75	50
PE 430/8	45.8 kW	43 kW 58 HP	888	230 460 600	C/F 73 56	C/F 742 569	M	1.3	93.9	93.8	93.0	.791	.716	.580
PE 520/8	55.1 kW	52 kW 70 HP	889	230 460 600	C/F 85 65	C/F 836 641	L	1.3	94.4	94.6	94.1	.811	.740	.602
PE 630/8	66.8 kW	63 kW 85 HP	889	230 460 600	C/F 108 82	C/F 1118 857	M	1.3	94.3	94.3	93.5	.780	.696	.556
PE 860/8	91.4 kW	86 kW 115 HP	886	230 460 600	C/F 141 108	C/F 1254 961	K	1.3	94.1	94.4	93.9	.814	.741	.605



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Submersible Sewage Pump Type ABS XFP

XFP 405M-CB2 | 16", 8 Pole, 3-Phase, 60 Hz, PE5

Cable Data, PE5 Frame

	Motor	Motor Voltage	Cable Qty	Cable Type	Cable Nominal Outside Diameter +/- .5mm (.02")	
					Power	Ground
Power Cable	PE 430/8	230	C/F	C/F	C/F	C/F
		460	1	G-GC 4-3	30.2mm (1.19")	Integrated w/ Power
		600	1	G-GC 6-3	26.7mm (1.05")	Integrated w/ Power
	PE 520/8	230	C/F	C/F	C/F	C/F
		460	1	G-GC 2-3	34.0mm (1.34")	Integrated w/ Power
		600	1	G-GC 4-3	30.2mm (1.19")	Integrated w/ Power
	PE 630/8	230	C/F	C/F	C/F	C/F
		460	1	G-GC 2-3	34.0mm (1.34")	Integrated w/ Power
		600	1	G-GC 4-3	30.2mm (1.19")	Integrated w/ Power
	PE 860/8	230	C/F	C/F	C/F	C/F
460		1	G-GC 1/0-3	41.9mm (1.65")	Integrated w/ Power	
		600	1	G-GC 2-3	34.0mm (1.34")	Integrated w/ Power
Control Cable	Motor Monitoring Type ³		Cable Qty	Cable Type	Cable Nominal Outside Diameter +/- .5mm (.02")	
	Std monitoring		1	SOOW 16/4	10.6mm (0.42")	
	Opt full monitoring		1	SOOW 16/8	14.2mm (0.56")	
	Opt full monitoring w/ VS ⁴		1	SOOW 16/10	17.2mm (0.68")	
	Opt full monitoring w/ 3 RTDs		1	SOOW 16/12	17.7mm (0.70")	
	Opt full monitoring w/ 5 RTDs		2	SOOW 16/10	17.2mm (0.68")	
	Opt full monitoring w/ 3 RTDs & VS ⁴		2	SOOW 16/8	14.2mm (0.56")	
	Opt full monitoring w/ 5 RTDs & VS ⁴		2	SOOW 16/10	17.2mm (0.68")	
	Cable Length	Standard: 15m (49 feet)		Optional: 5m (16 feet) increments up to 30m (98 feet), Consult Factory for longer lengths		

³ See motor protection on page 1. Optional full monitoring systems with RTD options do not include bearing bi-metallic switches. ⁴ VS = Vibration Sensor

Pump Data

Discharge Size	16" flanged, compatible with 16" class 125 ANSI flanges					
Suction Size (Wet-Pit / Dry-Pit) ⁵	16" undrilled / 16" flanged, compatible with 16" class 125 ANSI flanges, threaded for 16x1-8 UNC screws, 36mm (1.4") deep					
Volute Pressure Rating	10 bar (145 psi)					
Impeller Type	Semi-open, 2-vane, w/ Contrablock plus w/ Seal Protection					
Impeller	Code	-	-	-	-	-
	Diameter, mm (in.)	430 (16.9)	440 (17.3)	450 (17.7)	460 (18.1)	470 (18.5)
Solids Passage Size, mm (in.)		170x145 (6.7x5.7)	170x145 (6.7x5.7)	170x145 (6.7x5.7)	170x145 (6.7x5.7)	170x145 (6.7x5.7)
	Min. Recommended Flow, GPM ⁶	3000	3300	3600	4000	4400

⁵ Wet-pit version can be drilled to dry-pit specifications upon request. Consult factory for details. ⁶ Recommend minimum continuous flow. Consult factory for details.

these min flow only apply when running at 60HZ disregard please since VFD will be applied

Materials of Construction

	Standard	Optional
Power/Control Cable Jacket	Chlorinated Polyethylene (CPE)	Chlorinated Polyethylene (CPE) w/ Viton [®] Sleeve
Lifting Hoop	Ductile Iron EN-GJS-400-18 (ASTM A-536; 60-40-18)	Duplex Stainless Steel 1.4470 (ASTM A890, CD3MN Grade 4A)
Cable Connection Chamber	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Motor Housing	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Cooling Jacket	Steel 1.0036 (ASTM A-570, Grade D)	Stainless Steel 1.4571 (AISI 316Ti)
Intermediate Housing	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Seal Plate/Cooling Chamber	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	
Pump and Motor Shaft	Stainless Steel 1.4021 (AISI 420)	Duplex Stainless Steel 1.4462 (UNS S31803)
Impeller	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B) ⁷	Duplex Stainless Steel 1.4470 (ASTM A890, CD3MN Grade 4A)
Wear Parts	Impeller Wear Ring	N/A
	Volute Wear Ring	N/A
	Bottom/Wear Plate	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B) ⁷
	Shroud	N/A
Volute	Cast Iron EN-GJL-250 (ASTM A-48, Class 35B)	Duplex Stainless Steel 1.4470 (ASTM A890, CD3MN Grade 4A)
External Hardware	Stainless Steel 1.4401 (AISI 316)	
O-Rings and Cable Glands	Nitrile (Buna-N)	Viton [®]
Mechanical Seals	Lower	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS
	Upper	Silicon Carbide / Silicon Carbide, Nitrile, 316 SS
Lower Bearing Lip Seal	Nitrile (Buna-N)	
Coatings/Protection	Two-part epoxy, blue, 100µm (3.9 mil) DFT	Two-part epoxy, blue, 200 µm (7.9 mil) or 360 µm (14.2 mil); Coal tar epoxy, blue, 200 µm (7.9 mil); Non-toxic epoxy, blue, 200 µm (7.9 mil); Zinc Anodes

⁷ Hardening of bottom edge of impeller vane and wear plate surface available. Consult factory for details.

General Data (Standard Materials of Construction & Cable Length)

	PE 430/8	PE 520/8	PE 630/8	PE 860/8
Overall Height	1950mm (76.8")	2070mm (81.5")	2070mm (81.5")	2070mm (81.5")
≈ Pump Weight (Non-Cooled)	1585 kg (3495 lb)	1655 kg (3649 lb)	1685 kg (3715 lb)	1715 kg (3782 lb)

Custom: to be coated with customer preference coating



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included in price

No: M-02.2865 - 01 2

Dat/Nam.: 19.05.2016 / K. Srb

Cad Code: M_022865

Technical changes reserved
Änderungen vorbehalten
Sous réserve de modifications**XFP 405M-CB2**

Dimension sheet PE5 WET WELL Installation

Maßblatt PE5 Nassinstallation

Plan d'encombrement PE5 installation submersible

SULZER

Type Typ Type	Type Typ Type	Weight Gewicht Poids OK		Weight Gewicht Poids MK		H		Size
50Hz	60Hz	(~kg)	(~lb)	(~kg)	(~lb)	(mm)	(inch)	
PE 550/6-M		1835	4046	1965	4333			
PE 750/6-M	PE 860/6-M-60	1930	4256	2055	4531	2079	81.9	B
PE 900/6-M	PE 1040/6-M-60	1975	4355	2105	4642			
PE 370/8-M	PE 430/8-M-60	1775	3914	1890	4167	1959	77.1	A
PE 450/8-M	PE 520/8-M-60	1875	4134	2005	4421			
PE 550/8-M	PE 630/8-M-60	1920	4234	2050	4520	2079	81.9	B
PE 750/8-M	PE 860/8-M-60	1965	4333	2090	4608			

Weight: Includes pump, slider bracket and 10m cable
Gewicht: Beinhaltet Pumpe, Halterung und 10m Kabel
Poids: Pompe, coulisseau et 10m de câble

For different cable length see IOM, chapter 1.5

Für abweichende Kabellänge siehe EBA, Kapitel 1.5

Pour des longueurs supérieures, voir la section 1.5 du manuel

For hex.-woodscrew 0,4*2,8 plug 0,5 DIA

Für Skt.-Holzschr. 10*70 Dübel Ø12mm

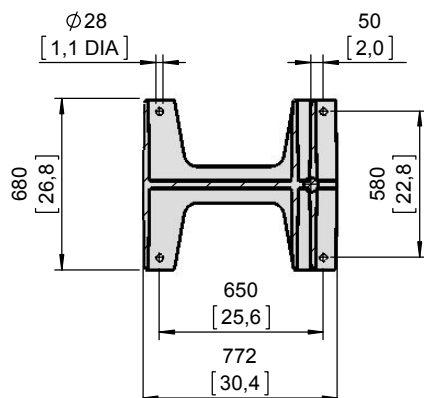
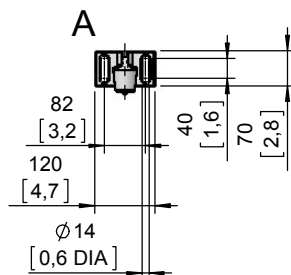
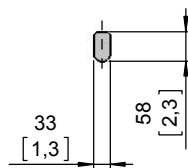
Pour vis à bois hexagonale 10*70 trou de 12mm

Installation instructions "pedestal" 1 597 2507

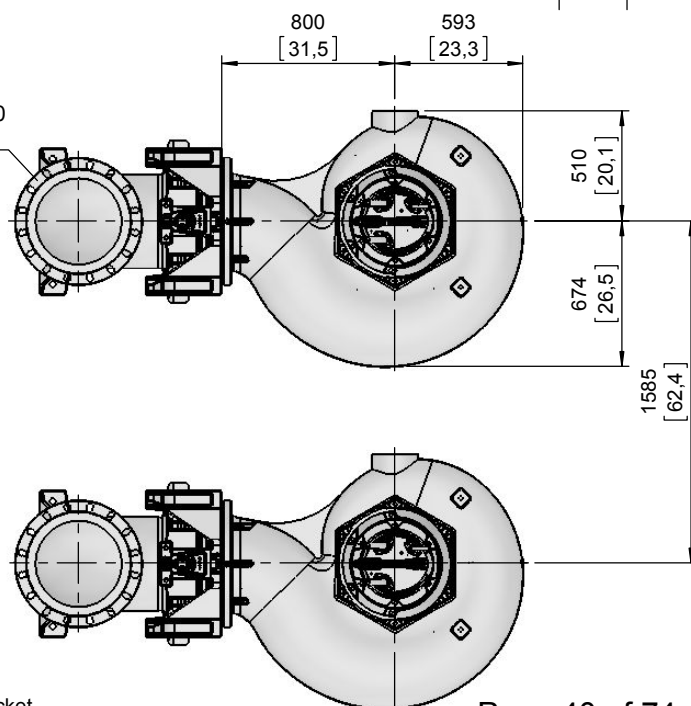
Installationsanweisung "Fußstück" 1 597 2507

Instruction d'installation du "pied d'assise" 1 597 2507

Lifting hoop cross section
Fangbügel-Querschnitt
Section de l'anse de levage



DN400, DIN EN 1092-2, PN10
16" ANSI B16.1 CLASS 125



min. sump opening
min. Schachtoffnung
Largeur mini de la trappe

OK = Ohne Kühlmantel
Without cooling jacket
Sans enveloppe de refroidissement

MK = Mit Kühlmantel
With cooling jacket
Avec enveloppe de refroidissement

[mm
[inch]

Submersible Sewage Pump Type ABS XFP

XFP 405M-CB2 | 16", 8 Pole, 3-Phase, 60 Hz, PE5

Scope

Furnish 1, non-clog, Submersible Sewage Pump(s) Type ABS XFP 405MCB2.470. The pump(s) shall be supplied with a mating 16 inch discharge connection and be capable of delivering 7500 U.S. GPM at a total dynamic head of 42 feet. An additional point on the same curve shall be 2000 U.S. GPM at a total dynamic head of 31.17 feet. Shut off head shall be a minimum of feet. The motor shall be an integral part of the pump unit. The motor shall be 115 HP, 8 pole, connected for operation on a 460 volt, 3 phase, 60 hertz electrical supply service. Each pump motor shall be equipped with feet of power and control cable sized in accordance with NEC and CSA standards. Pumps intended for wet-pit installation shall be supplied with a single cast iron guide rail system with ASTM 16 inch discharge elbow. Each pump unit shall be fitted with a assembly, feet long for lifting the pump. The working load rating of the lifting system shall be a minimum of 50% greater than the pump weight. Pumps intended for dry-pit installation shall be supplied with a steel mounting frame.

The heavy duty submersible wastewater pump(s) shall be capable of handling raw unscreened sewage, storm water, and other similar solids-laden fluids without clogging. The pump(s) shall be driven by a High Efficiency motor, providing high levels of operational reliability and energy efficiency.

Submersible Pump Construction

Major pump components shall be of gray cast iron, EN-GJL-250 (ASTM A-48, Class 35B) with smooth surfaces devoid of porosity or other irregularities. All exposed fasteners shall be of stainless steel, 1.4401 (AISI 316). All metal surfaces coming into contact with the pumped media (other than the stainless steel components) shall be protected by a factory applied spray coating of zinc phosphate primer followed by a high solids two-part epoxy paint finish on the exterior of the pump. The pump shall be equipped with an open lifting hoop suitable for attachment of standard chain fittings. The hoop shall be of ductile iron, EN-GJS-400-18 (ASTM A-536, Grade 60-40-18), with the option of upgrading to duplex stainless steel, 1.4470 (ASTM A890, CD3MN Grade 4A), and shall be rated to lift a minimum of four times the pump weight.

Sealing design for the pump/motor assembly shall incorporate machined surfaces fitted with Nitrile (Buna-N) rubber O-rings, with the option of upgrading to Viton®. Sealing will be the result of controlled compression of rubber O-rings in two planes of the sealing interface. Housing interfaces shall meet with metal-to-metal contact between machined surfaces, and sealing shall be accomplished without requiring a specific torque on the securing fasteners. Rectangular cross sectioned gaskets requiring specific torque limits to achieve compression shall not be considered equal. No secondary sealing compounds shall be required or used.

nitride treated

Wet End

Impeller: The Sulzer Contrablock Plus impeller shall be of gray cast iron, EN-GJL-250 (~~ASTM A-48, Class 35B~~), with the option of upgrading to duplex stainless steel, 1.4470 (~~ASTM A890, CD3MN Grade 4A~~). The impeller shall be of the semi-open, non-clogging, two-vane design, meeting the Ten State Standards requirement for minimum solids passage size of 3 inches. The impeller shall be capable of passing a minimum of 6.7 x 5.7 inch oblong solids that are commonly found in wastewater. The impeller shall have a slip fit connection onto the motor shaft, driven by a shaft key, and shall be securely fastened to the shaft by a stainless steel screw. A positively engaged, ratcheting washer assembly shall prevent the screw from loosening. The head of the impeller screw shall be effectively recessed within the impeller bore to prevent disruption of the flow stream and loss of hydraulic efficiency. The impeller shall be dynamically balanced to the ISO 10816 standard to provide smooth, vibration-free operation. Impeller designs which do not meet the Ten State Standards requirement for 3 inch solids passage size, those that rely on retractable impeller designs to pass 3 inch solids, or those that rely on fins or pins protruding into the suction path to assist in the handling of fibrous material shall not be considered equal.



Submersible Sewage Pump Type ABS XFP

XFP 405M-CB2 | 16", 8 Pole, 3-Phase, 60 Hz, PE5

✓ **Self-Cleaning Wear Plate:** The Sulzer Contrablock Plus wear plate shall be of gray cast iron, EN-GJL-250 (ASTM A-48, Class 35B), with the option of upgrading to duplex stainless steel, 1.4470 (ASTM A890, CD3MN Grade 4A). The wear plate shall be designed with a smooth surface incorporating strategically placed intercepting slots on the side facing the impeller, to shred and force any stringy solids which attempt to become lodged between the impeller and wear plate outward from the impeller and through the pump discharge. The wear plate shall be mounted to the volute with four stainless steel securing screws and four stainless steel adjusting screws to permit close tolerance adjustment between the wear plate and impeller for maximum pump efficiency. Adjustment to allow for wear and restore peak pumping performance shall be easily accomplished using standard tools, and without requiring disassembly of the pump. The use of fixed or non-adjustable wear plates or rings, or systems that require disassembly of the pump or shimming of the impeller to facilitate adjustment, shall not be considered equal. The suction flange shall be integrated into the wear plate and its bolt holes shall be drilled and tapped to accept standard 16 inch ANSI class 125/150 flanged fittings.

nitride treated

✓ **Pump Volute:** The pump volute shall be a single-piece, gray cast iron, EN-GJL-250 (ASTM A-48, Class 35B), with the option of upgrading to duplex stainless steel, 1.4470 (ASTM A890, CD3MN Grade 4A), non-concentric design with centerline discharge. Passages shall be smooth and large enough to pass any solids which may enter through the impeller. The discharge size shall be 16 inches. The discharge flange design shall permit attachment to standard ANSI and DIN flanges/appurtenances. The discharge flange shall be drilled to accept either 16 inch ANSI class 125/150 or metric DN400 flanged fittings. Proprietary or nonstandard flange dimensions shall not be considered acceptable. The minimum working pressure of the volute and pump assembly shall be 10 bar (145 psi).

✓ High Efficiency Motor

The motor shall be designed in accordance with the efficiency standards IEC 60034-30:2008 and NEMA Premium*. Motor rating tests shall be conducted in accordance with IEC 60034-2-1 requirements and shall be certified accurate and correct by a third party certifying agency. A certificate shall be available upon request.

* IE3 and NEMA Premium efficiency do not specifically apply to 8, 10, and 12 pole motors, only 2, 4, and 6 pole motors. The PE motors are designed to meet expected IE3 efficiency levels for 8 pole motors in future revisions of the IEC 60034-30 standard.

The motor shall be housed in a water-tight gray cast iron, EN-GJL-250 (ASTM A-48, Class 35B), enclosure, capable of continuous submerged operation underwater to a depth of 20 meters (65 feet) and shall have an IP68 protection rating. The motor shall be of the squirrel-cage induction design, NEMA type B. The copper stator windings shall be insulated with moisture resistant, Class H insulation material, rated for 180°C (356°F). The stator shall be press fitted into the stator housing. The use of bolts, pins, or other fastening devices requiring penetration of the stator housing is unacceptable. The rotor bars and short circuit rings shall be made of cast aluminum.

The motor shall be designed for continuous duty. The maximum continuous temperature of the pumped liquid shall be 40°C (104°F), and intermittently up to 50°C (122°F). The motor shall be capable of handling up to 10 evenly spaced starts per hour without overheating. The service factor (as defined by the NEMA MG1 standard) shall be 1.3. The motor shall have a voltage tolerance of +/- 10% from nominal, and a phase-to-phase voltage imbalance tolerance of 1%. The motor shall have a NEMA Class A temperature rise, providing cool operation under all operating conditions. The motor shall be FM approved for use in NEC Class I, Division I, Groups C & D hazardous locations. The surface temperature rating shall be T3C. The motor shall meet the requirements of NEMA MG1 Part 30 and 31 for operation on PWM type Variable Frequency Drives.

✓ **Optional Cooling System:** The factory installed closed-loop cooling system shall be of steel, 1.0036 (ASTM A-570, Grade D), with the option of upgrading to stainless steel, 1.4571 (AISI 316Ti), adequately designed to allow the motor to run continuously under full load while in an unsubmerged (dry-pit) or minimally submerged condition without the need for de-rating or reduced duty cycle. A cooling jacket shall surround the stator housing, and an environmentally safe nontoxic propylene glycol solution shall be circulated through the jacket by an axial flow circulating impeller attached to the main motor shaft. The coolant shall be pumped through an integrated heat exchanger in the base of the motor whenever the motor is running, allowing excess heat to be transferred to the process liquid. Cooling



Submersible Sewage Pump Type ABS XFP

XFP 405M-CB2 | 16", 8 Pole, 3-Phase, 60 Hz, PE5

systems that circulate the pumped medium through the cooling jacket, or those that use a toxic cooling liquid shall not be acceptable. The use of external heat exchangers, fans, or the supply of supplemental cooling liquid shall not be required.

✓ **Thermal Protection:** Each phase of the motor shall contain a normally closed bi-metallic temperature monitor switch imbedded in the motor windings. These thermal switches shall be connected in series and set to open at 140°C +/- 5°C (284°F). They shall be connected to the control panel to provide a high stator temperature shutdown signal, and are used in conjunction with external motor overload protection. As an option, normally closed bi-metallic temperature switches shall be installed in the upper and lower bearing housings to monitor the temperature of the bearings and provide high bearing temperature warning signals. As an option for pumps less than 100HP and standard for pumps over 100HP, RTD (PT100) type temperature measuring devices shall be supplied for the motor winding and bearings to provide actual temperature measurement at these locations. As an additional option, RTDs shall be provided for each stator phase winding in lieu of a single phase. When the RTD option is supplied for the motor winding, bi-metallic switches shall also be supplied in the windings. The bi-metallic system must be connected to the control to provide positive shutdown of the motor in the event of an overheat condition. This is required in order to conform to FM rules for explosion-proof equipment.

Vibration Monitoring Protection: As an option, the pump shall be supplied with a vibration sensor to allow continuous measurement of the pump's vibration magnitude. The sensor shall be a direct current, single axis velocity transducer with a 4 – 20 mA output which is directly proportional to the vibration level. The vibration sensor shall be mounted inside the motor's connection chamber and positioned perpendicular to the motor shaft. A visual display and/or monitor, installed in the control panel, shall monitor the vibration level and energize a warning light, or optionally, cause the pump to shut down in the event of excessive vibration. Externally mounted vibrations sensors attached to outside of the pump or motor shall not be acceptable.

✓ **Mechanical Seals:** Each pump shall be equipped with a triple seal system consisting of tandem mechanical shaft seals, plus a radial lip seal; providing three complete levels of sealing between the pump wet end and the motor. The mechanical seal system shall consist of two totally independent seal assemblies operating in a lubricant reservoir that hydro-dynamically lubricates the lapped seal faces at a constant rate. The mechanical seals shall be of nonproprietary design, and shall be manufactured by a major independent manufacturer specializing in the design and manufacture of mechanical seals. The lower, primary seal unit, located between the pump and the lubricant chamber, shall contain one stationary industrial duty solid silicon-carbide seal ring and one rotating industrial duty solid silicon-carbide seal ring. The stationary ring of the primary seal shall be installed in a seal holding plate of gray cast iron EN-GJL-250 (ASTM A-48, Class 35B). The seal holding plate shall be equipped with swirl disruption ribs to prevent abrasive material from prematurely wearing the seal plate. The upper, secondary seal unit, located between the lubricant chamber and the sensing chamber, shall contain one stationary industrial duty solid silicon-carbide seal ring, and one rotating industrial duty solid silicon-carbide seal ring. Each seal interface shall be held in contact by its own spring system. A radial lip seal shall be positioned above the sensing chamber, preventing any liquid which accumulates in the sensing chamber from entering the lower bearing and motor. The seals shall not require routine maintenance, or adjustment, and shall not be dependent on the direction of rotation for proper sealing. Each pump shall be provided with a lubricant chamber for the shaft sealing system which shall provide superior heat transfer and maximum seal cooling. The lubricant chamber shall be designed to prevent overfilling, and to provide lubricant expansion capacity. The drain and inspection plug shall have a positive anti-leak seal, and shall be easily accessible from the outside of the pump. The seal system shall not rely upon the pumped media for lubrication and shall not be damaged when the pump is run dry. Lubricant in the chamber shall be environmentally safe nontoxic material.

The following seal types shall not be considered equal: Seal systems with less than three complete levels of sealing between the pump wet end and the motor. Seals of proprietary design, or seals manufactured by other than major independent seal manufacturing companies. Seals requiring set screws, pins, or other mechanical locking devices to hold the seal in place, conventional double mechanical seals containing either a common single or double spring



Submersible Sewage Pump Type ABS XFP

XFP 405M-CB2 | 16", 8 Pole, 3-Phase, 60 Hz, PE5

acting between the upper and lower seal faces, or any system requiring a pressure differential to seat the seal and ensure sealing.

Mechanical Seal Protection System: The primary mechanical seal shall be protected from interference by particles in the wastewater, including fibrous materials, by an active Seal Protection System integrated into the impeller. The back side of the impeller shall be equipped with a sinusoidal cutting ring, forming a close clearance cutting system with the lower submersible motor housing or seal plate. This sinusoidal cutting ring shall spin with the pump impeller providing a minimum of 75 shearing actions per pump revolution. Large particles or fibrous material which attempt to lodge behind the impeller or wrap around the mechanical seal, shall be effectively sheared by the active cutting system into particles small enough to prevent interference with the mechanical seal. The Seal Protection System shall operate whenever the pump operates, and shall not require adjustment or maintenance in order to function. Submersible pump designs which do not incorporate an active cutting system to protect the primary mechanical seal shall not be considered acceptable for wastewater service.

Seal Failure Early Warning System: The integrity of the mechanical seal system shall be continuously monitored during pump operation and standby time. An electrical probe shall be provided in a sensing chamber positioned above the mechanical seals for detecting the presence of water contamination within the chamber. The sensing chamber shall be oil-filled, and shall have a drain / inspection plug with a positive anti-leak seal which is easily accessible from the outside of the pump. A solid-state relay mounted in the pump control panel or in a separate enclosure shall send a low voltage, low amperage signal to the probe, continuously monitoring the conductivity of the liquid in the sensing chamber. If sufficient water enters the sensing chamber, the probe shall sense the increase in conductivity and signal the solid state relay in the control panel. The relay shall then energize a warning light on the control panel, or optionally, cause the pump shut down. This system shall provide an early warning of mechanical seal leakage, thereby preventing damage to the submersible motor, and allowing scheduled, rather than emergency, maintenance. Systems utilizing float switches or any other monitoring devices located in the stator housing rather than in a sensing chamber are not considered to be early warning systems, and shall not be considered equal.

As an option for pumps less than 100HP and standard for pumps over 100HP, two additional moisture sensing probes, one in the electrical connection chamber, and one in the motor chamber shall be provided. These probes shall send separate signals to the control panel as described above, so that maintenance personnel are given an early warning of the presence of moisture in the respective sensing chambers.

Shaft: The pump shaft and motor shaft shall be an integral, one piece unit adequately designed to meet the maximum torque required at any normal start-up condition or operating point in the system. The shaft shall have a full shutoff head design safety factor of 1.7, and the maximum shaft deflection shall not exceed .05 mm (.002 inch) at the lower seal during normal pump operation. Each shaft shall be of stainless steel, 1.4021 (AISI 420), with the option of upgrading to duplex stainless steel, 1.4462 (UNS S31803), and shall have a polished finish with accurately machined shoulders to accommodate bearings, seals and impeller. Carbon steel, chrome plated, or multi-piece welded shafts shall not be considered adequate or equal.

Bearings: Each pump shaft shall rotate on high quality, permanently lubricated, greased bearings. The upper bearing shall be a cylindrical roller bearing. As an option, the upper bearing can be electrically isolated from the bearing housing to prevent bearing damage from circulating currents when the pump is operated on a variable frequency drive. The lower bearings shall be a matched set of at least three heavy duty bearings; two angular contact ball bearings and one cylindrical roller bearing. All three lower bearings shall have identical outer race diameters to provide maximum bearing load capacity. Designs which utilize a roller bearing with a smaller outer diameter than the other bearings in the assembly do not provide maximum load capacity and shall not be considered equal. Bearings shall be of sufficient size and properly spaced to transfer all radial and axial loads to the pump housing and minimize shaft deflection. L-10 bearing life shall be a minimum of 100,000 hours at flows ranging from ½ of BEP flow to 1½ times BEP flow (BEP is best efficiency point). The bearings shall be manufactured by a major internationally known manufacturer of high quality bearings, and shall be stamped with the manufacturer's name and size designation on



Submersible Sewage Pump Type ABS XFP

XFP 405M-CB2 | 16", 8 Pole, 3-Phase, 60 Hz, PE5

the race. Generic or unbranded bearings from other than major bearing manufacturers shall not be considered acceptable.



Power Cable: The power cables shall be sized according to NEC and CSA standards and shall be of sufficient length to reach the junction box without requiring splices. The outer jacket of the cable shall be of chlorinated polyethylene (CPE) and be oil, water, and UV resistant, capable of continuous submerged operation underwater to a depth of 65 feet.



Cable Entry/Junction Chamber: The cable entry design shall not require a specific torque to insure a watertight seal. The cable entry shall consist of cylindrical elastomer grommets, flanked by stainless steel washers. A cable cap incorporating a strain relief and bend radius limiter shall mount to the cable entry boss, compressing the grommet ID to the cable while the grommet OD seals against the bore of the cable entry. The junction chamber shall be isolated and sealed from the motor by means of sealing glands. Electrical connections between the power cables and motor leads shall be made via a compression or post type terminal board, allowing for easy disconnection and maintenance.

Accessories

Guide Rail Base Assembly (wet pit installation): There shall be no need for personnel to enter the wet well to remove or reinstall the pump(s). In a wet well installation, the pump(s) shall be permanently mounted to a large base & elbow assembly shall be permanently installed in the wet well and connected to the guide rail system. The pump(s) shall be mounted to the base & elbow assembly in order to prevent binding or separation of the pump from the guide rail system. The pump(s) shall be mounted to the base & elbow assembly using existing rail base automatically and firmly, guided by one 2 inch guide pipe (two 2 inch pipes optional) extending from the base elbow to the top of the station. As an option, 3 inch single rail systems are available. Systems using guide cable in lieu of rigid guide bars or pipes shall not be considered acceptable. The sliding guide bracket shall be a separate part of the pumping unit, capable of being attached to standard pump flanges, so that the pump mounting is nonproprietary, and any pump with a standard discharge flange can be mounted on the base assembly. Base or bracket assemblies with proprietary or nonstandard flange dimensions shall not be considered acceptable.

A field replaceable Nitrile (Buna-N) rubber profile gasket or O-ring shall accomplish positive sealing of the pump flange/guide rail bracket to the discharge elbow. Base assemblies which rely solely on metal-to-metal contact between the pump flange and discharge base elbow as a means of sealing are inherently leak prone, and shall not be considered equal. No portion of the pump shall bear directly on the floor of the sump. The guide rail system shall be available in an optional non-sparking version, approved by Factory Mutual for use in NEC Class 1, Division 1, Group C&D hazardous locations.

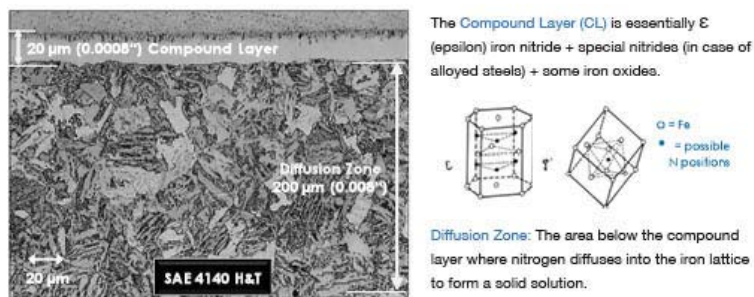
Base Assembly (dry-pit installation): In a dry-pit installation, the pump shall be secured to a steel support stand attached to cast concrete support pillars (concrete support pillars supplied by others) of suitable strength to support the weight of the pump and resist any expected torsion, bending, or vibration forces. The pump shall be suitable for either vertical or horizontal dry-pit installation without requiring any internal modifications.



✓ MELONITE QPQ TREATMENT

Liquid nitriding is a subcritical surface enhancement process with one of the longest track records of success of any case hardening technology. It is widely used to enhance the wear and corrosion resistance of low alloy steels and stainless steels.

In a liquid nitriding bath which is maintained between 500 - 630°C (930 - 1165°F), nitrogen-bearing salts produce a controlled and highly uniform release of nitrogen at the interface of the workpiece. Nitrogen diffuses into, and chemically combines with, nitride-forming elements in the metal, producing, through a catalytic reaction, a tough, ductile compound layer with exceptional engineering and wear properties. This compound layer has wear properties that are 200% to 1000% greater than the original material, and greatly enhanced resistance to corrosion, galling and scuffing. Below the compound zone is another distinctive region, the diffusion zone. This results from the progressive diffusion of nitrogen and the formation of a solid solution of nitrogen in the base material. The diffusion zone contributes a critical fourth benefit of salt bath nitriding: substantial enhancement of fatigue strength, typically 20% to 100%.



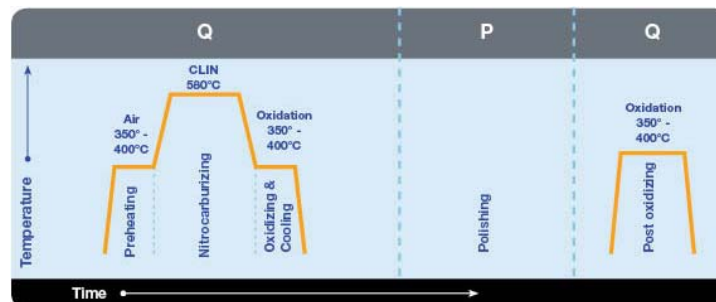
Benefits that can be realized through liquid nitriding treatments include:

- Superior wear resistance
- Excellent friction properties
- Good scuffing/seizure protection (adhesive wear) thanks to ceramic characteristics of the surface
- Excellent corrosion protection
- Good surface fatigue resistance
- Decorative black surface
- No deformation or distortion of the part; treatment done on finished parts
- Environmentally sound

MELONITE, and its synonymous trade-name, Tufftride (or Tenifer), is a relatively straight-forward, flexible process to operate and maintain, and produces exceptionally uniform case hardening. The MELONITE process begins with the placement of parts in a re-circulating air preheat furnace, followed by immersion for 60-240 minutes in a molten nitrogen-rich salt solution contained in an aerated furnace. After nitriding, parts are treated in an oxidizing bath, water-cooled and rinsed.

An alternative series of post-nitriding steps involves a Quench-Polish-Quench (QPQ) sequence after liquid nitriding. For many applications, this finishing process provides a surface condition that protects against corrosion and wear better than hard chrome or nickel plating.

How Melonite Works: Treatment Cycle





Missoula Wastewater Treatment Facility and Adjacent Property

October 3, 2019



City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Reserve Street Lift Station Construction

Date: October 3, 2019

Sponsor(s): Ross Mollenhauer

Prepared by: Pat Brook / Amy Dennis

Ward(s) Affected:

<input type="checkbox"/> Ward 1	<input type="checkbox"/> Ward 4
<input type="checkbox"/> Ward 2	<input checked="" type="checkbox"/> Ward 5
<input type="checkbox"/> Ward 3	<input type="checkbox"/> Ward 6
<input type="checkbox"/> All Wards	<input type="checkbox"/> N/A

Action Required:

Award the bid for construction services on the Reserve Street Lift Station to Western Municipal Construction for an amount not to exceed \$839,625.00 and authorize the return of bid bonds.

Recommended Motion(s):

I move the City Council: awards the bid for construction services on the Reserve Street Lift Station to Western Municipal Construction for an amount not to exceed \$839,625.00 and authorizes the return of bid bonds.

Timeline:

Referral to committee:	October 7, 2019
Committee discussion:	October 9, 2019
Council action (or sets hearing):	n/a
Public Hearing:	n/a
Deadline:	n/a

Background and Alternatives Explored:

The pumping equipment in the Reserve Street lift station is nearing the end of its useful life, so the Wastewater Division needs to replace the current equipment and wet well/dry pit configuration with an above-ground, submersible pump package lift station that is similar to the other rehabilitated lift stations around the city. This rebuild will also eliminate the need for City employees to enter a confined space that is more than 20 feet below ground to maintain the pumping equipment. Four bids were received and Morrison-Maierle has recommended the City award the bid to Western Municipal Construction.

Financial Implications:

Wastewater enterprise funds will be used to fund this project.

Links to external websites:

n/a

**BID SUMMARY AND AWARD RECOMMENDATION
OCTOBER 2, 2019**

**CITY OF MISSOULA – WASTEWATER DIVISION
RESERVE STREET LIFT STATION
PROJECT #2018-046**

Electronic Bids were received by the City of Missoula for the Reserve Street Lift Station Replacement project until 11:00 AM on September 30, 2019. This memorandum summarizes information pertaining to bidding, the bids received, and makes a recommendation on a course of action.

ADVERTISEMENT / BIDDING PERIOD

The project was advertised on two separate occasions in the Missoulian. Also the project was advertised on the City of Missoula's webpage via the QuestCDN online construction data network and plans exchange.

The bidding period allowed three weeks for Contractors to prepare their bids. A mandatory pre-bid meeting was held onsite at the wastewater treatment plant approximately two weeks prior to the bid closing. This meeting was used to discuss the project plans, specifications, and requirements; tour the existing lift station site; and receive and answer questions from Contractors. Five prime bidders were in attendance at the meeting: Sletten Construction Companies, Dick Anderson Construction, First Mark Construction, Western Excavating, and Western Municipal Construction; as well as numerous trade subcontractors. Knife River was not in attendance at the mandatory pre-bid meeting however they were allowed to bid the project due to a misunderstanding of the pre-bid meeting date and time.

Only one addenda was issued during the bidding period. Addendum No. 1 was issued on September 25, 2019. This addendum included minor revisions to several specification sections, one clarification to a drawing sheet, and several responses and clarifications based on questions asked by Contractors during the pre-bid meeting and bidding period.

Two requests were made to extend the bidding period (Dick Anderson Construction and Western Municipal Construction) and one request was made by Dick Anderson Construction to extend the 90-day substantial completion duration included in the project. Requests for an extension to both the bid period and contract period were denied.

BIDS RECEIVED

Four bids were turned in for the project from: Dick Anderson Construction, First Mark Construction, Western Excavating, and Western Municipal Construction. There were no errors discovered in the bids received. All bids were received on the bid date of September 30th and were received prior to the bid closing deadline. Attached to this memorandum is a certified bid tabulation that provides an item-by-item comparison between the bids received and the engineer's estimate of probable costs.

The apparent low bidder was Western Municipal Construction. Their bid of \$839,625.00 was approximately 17% above the engineer's estimate and 47% below the next low bidder's price.

The City of Missoula Apprenticeship Preference Program applied to this project. Of the four bids received, three of the bidders submitted for the bidder's preference. Western Municipal Construction was the only bidder that did not apply for the bidder's preference. As shown on the certified bid tabulation, the bidder's preference did not have a bearing on the apparent low bidder.

An evaluation of the line items submitted by the contractor's doesn't show any one area where Western Municipal Construction deviated from the other bidders but instead shows a general lower amount on most all of the bid items.

On the morning of October 1, 2019 Western Municipal Construction's Project Manager, Kirk Hogan, came to the office of Morrison-Maierle to discuss the project scope and make sure they had a good understanding of the work included in the project. A line-by-line bid analysis took place which resulted in no major scope omission or misunderstandings of the project.

Although the bid price is higher than the Engineer's Estimate (+17%), and considerably lower than the bid price submitted by the next low bidder (-47%); the bid submitted by Western Municipal Construction appears to represent a complete bid without any major oversight or omission of project scope. After having discussions with Western Municipal regarding their bid price, they have indicated they are willing to stand behind their price and complete the work for the price submitted.

EVALUATION OF LOW BIDDER

Western Municipal Construction submitted the necessary information required of bidders including past experience of projects meeting the criteria of similar size and complexity. The proposed project personnel also met the criteria listed for past experience. Morrison-Maierle has completed several past projects with Western Municipal Construction in the Billings area which were all completed within project timeframes and budgets. Based on our past experience with Western Municipal Construction, we have no concerns regarding their capabilities and capacity to complete the current project at hand.

CONCLUSION

Based on the bids received it is our recommendation to award the project to Western Municipal Construction. Their bid remains subject to acceptance for a period of sixty (60) calendar days after the Bid opening; however, based on the project schedule and associated work within the Larchmont Golf Course, we recommended making the award as soon as possible.

Prepared by Morrison-Maierle



Neal Levang, P.E.
Design Engineer

**CITY OF MISSOULA - WASTEWATER DIVISION
RESERVE STREET LIFT STATION**



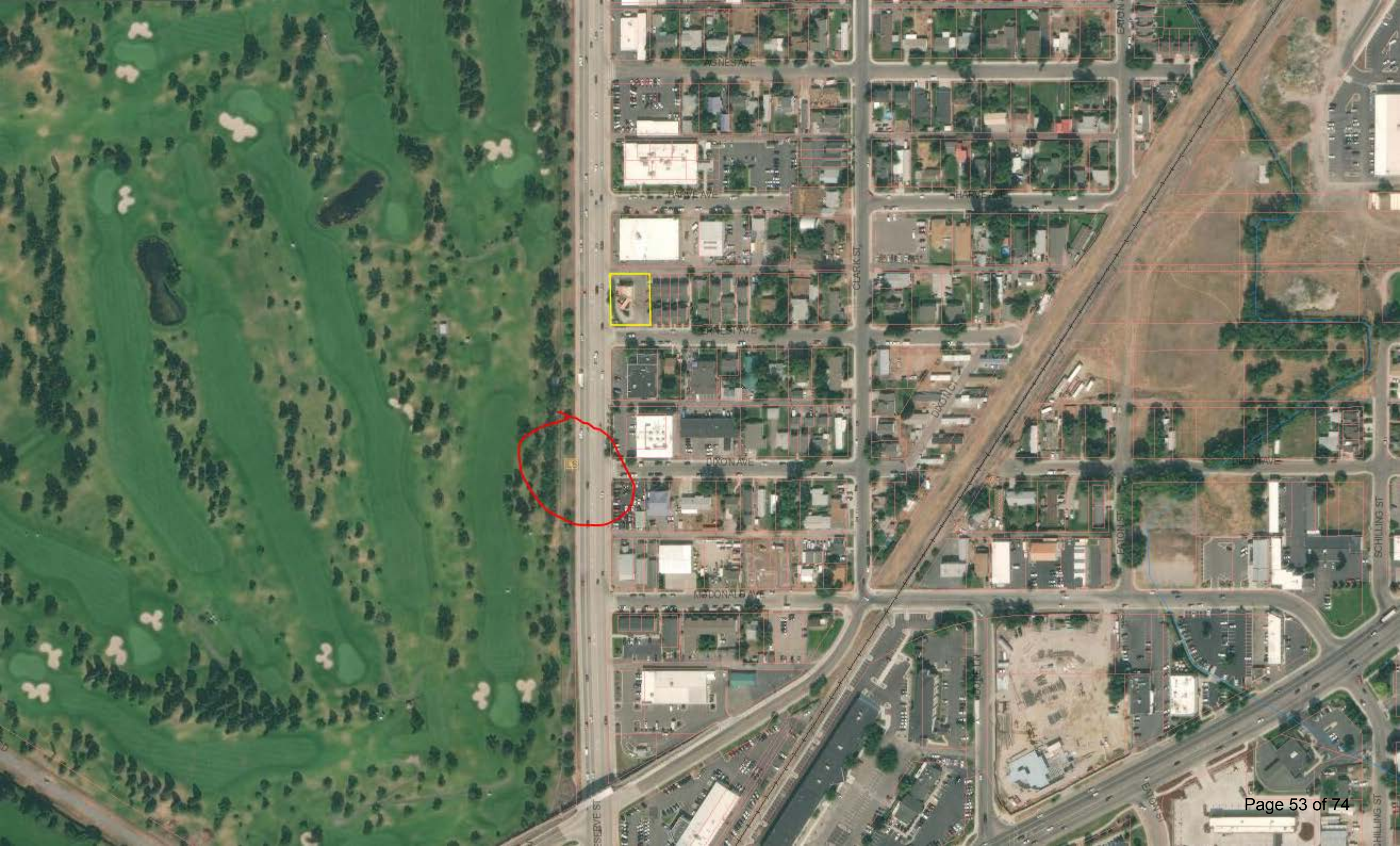
Certified Bid Tabulation			Engineer's Estimate	Western Municipal Construction	First Mark Construction	Western Excavating	Dick Anderson Construction
Monday September 30, 2019			Morrison-Maierle	Billings, MT	Missoula, MT	Missoula, MT	Missoula, MT
NO.	UNIT	DESCRIPTION	PRICE	PRICE	PRICE	PRICE	PRICE
101	L.S.	Mobilization/Demobilization	\$ 18,000.00	\$ 25,000.00	\$ 24,500.00	\$ 50,000.00	\$ 40,000.00
102	L.S.	Taxes, Bonds, and Insurance	\$ 30,000.00	\$ 50,000.00	\$ 5,700.00	\$ 50,000.00	\$ 9,900.00
103	L.S.	General Requirements	\$ 30,000.00	\$ 65,000.00	\$ 54,400.00	\$ 35,000.00	\$ 135,000.00
201	L.S.	Demolition	\$ 10,000.00	\$ 11,500.00	\$ 43,900.00	\$ 40,000.00	\$ 15,000.00
202	L.S.	Tree Removal	\$ 12,500.00	\$ 4,000.00	\$ 14,900.00	\$ 6,500.00	\$ 5,000.00
203	L.S.	Bypass Pumping	\$ 15,000.00	\$ 23,500.00	\$ 60,200.00	\$ 130,000.00	\$ 75,000.00
204	L.S.	Dewatering	\$ 10,000.00	\$ 10,000.00	\$ 60,800.00	\$ 115,000.00	\$ 50,000.00
205	L.S.	Lift Station Sitework	\$ 115,000.00	\$ 18,000.00	\$ 8,400.00	\$ 250,000.00	\$ 55,000.00
206	L.S.	Traffic Control	\$ 5,000.00	\$ 17,000.00	\$ 27,600.00	\$ 65,000.00	\$ 20,000.00
207	L.S.	New Gate and Fencing Repairs	\$ 5,000.00	\$ 8,000.00	\$ 3,300.00	\$ 10,000.00	\$ 10,000.00
208	L.S.	New 36" Gravity Sewer Main	\$ 20,000.00	\$ 16,000.00	\$ 60,400.00	\$ 50,000.00	\$ 100,000.00
209	L.S.	Reroute Air Intake Pipe	\$ 5,000.00	\$ 7,500.00	\$ 4,600.00	\$ 8,500.00	\$ 15,000.00
210	L.S.	Reroute Drain Pipe	\$ 5,000.00	\$ 5,000.00	\$ 4,100.00	\$ 5,500.00	\$ 10,000.00
211	L.S.	14" Linda Vista Force Main Connection	\$ 15,000.00	\$ 46,500.00	\$ 76,900.00	\$ 65,000.00	\$ 28,000.00
301	L.S.	Existing Wet Well Conversion to Manhole	\$ 10,000.00	\$ 9,850.00	\$ 28,800.00	\$ 5,000.00	\$ 25,000.00
302	L.S.	New 12' Diameter Wet Well and Foundation	\$ 75,000.00	\$ 222,500.00	\$ 502,400.00	\$ 95,000.00	\$ 358,800.00
303	L.S.	New Bypass Manhole	\$ 10,000.00	\$ 21,500.00	\$ 2,400.00	\$ 12,000.00	\$ 30,000.00
304	L.S.	New Valve Vault	\$ 75,000.00	\$ 162,000.00	\$ 78,500.00	\$ 75,000.00	\$ 150,000.00
1101	L.S.	Installation of Owner Supplied Pump Equip	\$ 17,000.00	\$ 3,775.00	\$ 8,600.00	\$ 20,000.00	\$ 15,000.00
1301	L.S.	Instrumentation	\$ 25,000.00	\$ 13,500.00	\$ 22,600.00	\$ 50,000.00	\$ 16,000.00
15000	L.S.	Lift Station Piping, Complete	\$ 140,000.00	\$ 38,500.00	\$ 82,400.00	\$ 47,500.00	\$ 175,000.00
16000	L.S.	Electrical & Control Modifications	\$ 35,000.00	\$ 26,000.00	\$ 22,800.00	\$ 25,000.00	\$ 16,000.00
9999	L.S.	Miscellaneous Work Allowance	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00
BASE BID TOTAL			\$ 717,500.00	\$ 839,625.00	\$ 1,233,200.00	\$ 1,245,000.00	\$ 1,388,700.00
City of Missoula Apprenticeship Bidder Preference			-	NO	YES	YES	YES
Total with Bidders Preference Applied (5% Deduct)			-	\$ 839,625.00	\$ 1,171,540.00	\$ 1,182,750.00	\$ 1,319,265.00


Neal Levang, P.E.
Morrison-Maierle, Inc.



The Tabulation of Bids herein is believed to be a true representation of the Bids received. Any discrepancies in the indicated sum of any column of figures, as presented in the bids, and the correct sum thereof, have been resolved per Section 00200, INSTRUCTIONS TO BIDDERS and are so reflected in this tabulation.

Morrison-Maierle Project No.: 1657.049
City of Missoula Project No.: 2018-046





City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Purchase of one (1) Case Front End Loader for Garden City Compost

Date: October 1, 2019

Sponsor(s): Scot Colwell

Prepared by: Scot Colwell

Ward(s) Affected:

<input type="checkbox"/> Ward 1	<input type="checkbox"/> Ward 4
<input type="checkbox"/> Ward 2	<input type="checkbox"/> Ward 5
<input type="checkbox"/> Ward 3	<input type="checkbox"/> Ward 6
<input checked="" type="checkbox"/> All Wards	<input checked="" type="checkbox"/> N/A

Action Required:

Please approve the purchase of one (1) 2019 Case 921G Backhoe from Titan Machinery of Missoula, Montana for \$284,836.80. This purchase is a cooperative purchase Through Sourcewell formerly known as NJPA (National Joint Powers Alliance). There is \$250,000.00 budgeted for this purchase.

Recommended Motion(s):

I move the City Council: Approve the purchase one (1) 2019 Case 921G Backhoe from Titan Machinery of Missoula, Montana for \$284,836.80. This purchase is a cooperative purchase Through Sourcewell formerly known as NJPA (National Joint Powers Alliance). There is \$250,000.00 budgeted for this purchase

Timeline:

Referral to committee:	October 7, 2019
Committee discussion:	October 9, 2019
Council action (or sets hearing):	n/a
Public Hearing:	n/a
Deadline:	n/a

Background and Alternatives Explored:

This front end loader will be used by Garden City Compost Department to move compost, leaves, logs, brush, and equipment around the site. This unit will replace a 1994 case 821 loader on site and this loader will be sold at auction. This purchase includes two (2) six yard buckets, a load loop, and a spare tire for this loader.

Financial Implications:

This purchase has been approved in the CIP and is part of the vehicle growth and replacement program. There is \$250,000.00 budgeted for this purchase with the cost of purchasing this unit coming in over budget by \$34,836.80.

Links to external websites:

Date: 9/13/2019

Customer: CITY OF MISSOULA Address: 435 RYMAN MISSOULA, MT 59802					Date: 9/13/2019				
County: MISSOULA PO: Phone: 406-552-6000					Seller: TITAN MACHINERY-MISSOULA Address: 7580 US HWY 10 W MISSOULA, MT 59808-8704				
2nd Signer: Address:					Phone: 406-543-7782 KEITH HENRY				
Sales Tax Possession / Receiving Location: MT, MISSOULA, MISSOULA					NOTICE TO PURCHASER 1. Read this contract before you sign it. 2. You are entitled to an exact and completely filled in copy of this contract when you sign it. Keep it to protect your legal rights. 3. Purchaser acknowledges receipt of a fully completed copy of this contract and Purchaser waives notice of the acceptance or rejection of this order by the seller. 4. The Acknowledgments and Additional Terms and Conditions are a part of this contract and are incorporated herein by reference.				
Purchased Equipment Information									
Type	Qty	Product	PDI	Warranty	Tag #	Serial Number	Sales Price		
New	1	CASE, 921G, WHEEL LOADER	NO	Factory	2635561	NKF247635	284,836.80		
-									
-									
-									
-									
-									
-									
-									
-									
-									
-									
Trade-In Equipment Information I (we) offer to sell, transfer and convey the following item(s) at or prior to the time of delivery of the above product, as a "trade-in" to be applied against the cash price. Such items shall be free and clear of all security agreements, liens, and encumbrances at the time of transfer to you. The following is a description and the price allowed for each item.									
Qty	Description of Trade In	Tag #	Serial Number	Amount					
					1. Total Sales Price 284,836.80				
Tax Breakdown									
				Amount					
				Total Taxes	0.00	2. Total Trade In Allowance 0.00			
Other Options, Charges & Fees				Amount	3. Balance 284,836.80				
					4. Total Tax (No Sales if Paying Excise Tax) 0.00				
					5. Other Options, Charges, Fees 0.00				
					6. Trade Payoff / Pre Barter 0.00				
					7. Total Due 284,836.80				
					SETTLEMENT				
					8. Cash Payment 0.00				
					9. Cash Due: (Date) 0.00				
					10. Retail Installment Contract 284,836.80				
					11. Total Settlement 284,836.80				
Total Other Options, Charges and Fees 0.00									
It is understood that this is the entire agreement between the parties									
Customer _____ Date _____ Salesperson: KEITH HENRY									
Customer _____ Date _____ Accepted By: _____									

Page 55 of 74

AVAILABILITY / PRICING

I (We), the undersigned, hereby order from you the Product described on the previous page, to be available as shown. This order is subject to your ability to obtain such Product from the manufacturer and you shall be under no liability if delivery of the Product is delayed or prevented due to labor disturbances, transportation difficulties, or for any reason beyond your control. The price shown is subject to your receipt of the Product prior to any change in price by the manufacturer. It is also subject to any new or increased taxes imposed upon the sale of the Product after the date of this order. Product to be available on or after .

WARRANTY

New, New Demo/Rental Equipment

Applicable new equipment warranty is available to the customer by a separate statement of Manufacturer's Warranty and Limitation of Liability. Please read it carefully. **YOUR RIGHTS AND REMEDIES PERTAINING TO THIS PURCHASE ARE LIMITED AS SET FORTH IN THE WARRANTY AND THIS CONTRACT. IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS ARE NOT MADE AND ARE EXCLUDED UNLESS SPECIFICALLY PROVIDED IN THE MANUFACTURER'S WARRANTY.** Remaining new equipment warranty on demo/rental units will be provided per Manufacturer's policy. The customer signature below acknowledges receipt of the warranty statement.

Used Equipment Warranty

Used Equipment is sold AS-IS, WITH NO REPRESENTATIONS OR WARRANTIES unless otherwise noted in warranty column of Purchased Equipment. If extended or Powertrain warranty is noted for used equipment, that warranty will expire based on the Terms and Conditions set forth on the Warranty Contract. Warranty is defined as a failure or defect in parts and/or workmanship. Upgrades, improvements, wear items, tires, maintenance parts, service call mileage and trucking are excluded. Warranty parts and labor must be purchased from Titan Machinery Inc. dealerships.

ACKNOWLEDGMENTS

I (We) promise to pay the balance due shown on the reverse (line 7 and 8) in cash, or to execute a Time Sale Agreement (Retail Installment Contract), or a Loan Agreement, for the purchase price of the Product, plus additional charges shown thereon or execute a Lease Agreement on or before delivery of the Product ordered herein. Despite physical delivery of the Product, title shall remain in the Seller until one of the foregoing is accomplished. This is a cash transaction. If the Purchaser so requests prior to acceptance, the unpaid balance will be handled as a Time Sale Agreement (Retail Installment Contract), subject to available financing and credit approval.

ADDITIONAL TERMS AND CONDITIONS

1. When trade-in equipment is not to be delivered to the Seller until delivery of the equipment purchased by this order, the trade-in equipment may be reappraised at the time and such reappraisal value shall determine the allowance made for such trade-in equipment. When the reappraised value is less than the original trade-in allowance shown on this form, the purchaser may terminate this order; however, this right of termination must be exercised prior to delivery of the equipment by Seller and surrender of the trade-in equipment to Seller.
2. In the event the dealer's price is changed prior to delivery, the purchase price shall be adjusted accordingly. If such price change results in an increase, purchaser has the option of canceling this order in writing immediately on being notified thereof.
3. No delivery of above goods to be made until full settlement is received.
4. Seller and manufacturer make no representations or warranties, express or implied (including the implied warranties of merchantability and fitness) except as provided on the Manufacturer's Warranty and Limitation of Liability Statement.
5. The Seller assumes no liability for non-shipment, delay in shipment or other circumstances beyond its control.

Purchaser(s) Initials: _____



City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Purchase of Street Division Pickup

Date: October 2, 2019

Sponsor(s): Scot Colwell

Prepared by: Scot Colwell

Ward(s) Affected:

<input type="checkbox"/> Ward 1	<input type="checkbox"/> Ward 4
<input type="checkbox"/> Ward 2	<input type="checkbox"/> Ward 5
<input type="checkbox"/> Ward 3	<input type="checkbox"/> Ward 6
<input checked="" type="checkbox"/> All Wards	<input type="checkbox"/> N/A

Action Required:

Please approve the purchase of one (1) 2019 Dodge 2500 4-wheel drive Regular cab pickup from Lithia Dodge of Missoula Montana for the purchase price of (\$36,077.00). Lithia Dodge of Missoula was the low bid on this purchase (See Bid Tab) there is \$37,500.00 budgeted for this purchase.

Recommended Motion(s):

I move the City Council: Please approve the purchase of one (1) 2019 Dodge 2500 4-wheel drive Regular cab pickup from Lithia Dodge of Missoula Montana for the purchase price of (\$36,077.00). Lithia Dodge of Missoula was the low bid on this purchase (See Bid Tab) there is \$37,500.00 budgeted for this purchase.

Timeline:

Referral to committee:	October 7, 2019
Committee discussion:	October 9, 2019
Council action (or sets hearing):	October 21, 2019
Public Hearing:	N/A
Deadline:	N/A

Background and Alternatives Explored:

This pickup will be used by the Street Division to clear snow in residential areas, it will be fit with a snow plow and a sander for operation in the winter. it will also be used in the summer to transport Street Division employees, barricades, tools and equipment to job sites

Financial Implications:

This purchase has been approved in the CIP and is a new request to the fleet. There is \$37,500.00 budgeted to purchase this Street Division pick-up. There is no trades included in this purchase.

Links to external websites:

Dealer	Karl Tyler	Demorios	Lithia Ford
1 ton standard cab 4x4 with 8 foot box. Snow plow prep package and bluetooth handsfree phone optional	Chevy has not made 1 Ton standard cab trucks for over a year. This would have been a special order if we wanted to get Chevy trucks. No Bid	GMC has not made 1 Ton standard cab trucks for over a year. This would have been a special order if we wanted to get GMC trucks. No Bid	Ford had two trucks that would work. They were located on the pacific coast and both had hail damage. The cost of these trucks with hail damage was: \$46,714.00
3/4 Ton standard cab 4X4 with 8 foot bed. Snow plow prep group and bluetooth handsfree phone optional.	Chevy has not made standard cab 3/4 ton trucks since January of 2019. this would have been a special order if we wanted to get Chevy trucks. No Bid	GMC has not made standard cab 3/4 ton trucks since January of 2019. this would have been a special order if we wanted to get GMC trucks. No Bid	Ford did not have a a truck in the 3/4 Ton range that met our specs. No Bid

Lithia Dodge
Dodge had one 1 Ton truck that met our specs. \$39,436.00
Dodge had 1 3/4 Ton Truck that met our specs. \$36,077.00



City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Purchase of Street Division Pickup

Date: October 2, 2019

Sponsor(s): Scot Colwell

Prepared by: Scot Colwell

Ward(s) Affected:

<input type="checkbox"/> Ward 1	<input type="checkbox"/> Ward 4
<input type="checkbox"/> Ward 2	<input type="checkbox"/> Ward 5
<input type="checkbox"/> Ward 3	<input type="checkbox"/> Ward 6
<input checked="" type="checkbox"/> All Wards	<input type="checkbox"/> N/A

Action Required:

Please approve the purchase of one (1) 2019 Dodge 3500 4-wheel drive Regular cab pickup from Lithia Dodge of Missoula Montana for the purchase price of (\$39,436.00). Lithia Dodge of Missoula was the low bid on this purchase (See Bid Tab) there is \$37,500.00 budgeted for this purchase.

Recommended Motion(s):

I move the City Council: Please approve the purchase of one (1) 2019 Dodge 3500 4-wheel drive Regular cab pickup from Lithia Dodge of Missoula Montana for the purchase price of (\$39,436.00). Lithia Dodge of Missoula was the low bid on this purchase (See Bid Tab) there is \$37,500.00 budgeted for this purchase.

Timeline:

Referral to committee:	October 7, 2019
Committee discussion:	October 9, 2019
Council action (or sets hearing):	October 21, 2019
Public Hearing:	N/A
Deadline:	N/A

Background and Alternatives Explored:

This pickup will be used by the Street Division to clear snow in residential areas, it will be fit with a snow plow and a sander for operation in the winter. it will also be used in the summer to transport Street Division employees, barricades, tools and equipment to job sites.

Financial Implications:

This purchase has been approved in the CIP and is a new request to the fleet. There is \$37,500.00 budgeted to purchase this Street Division pick-up. There is no trades included in this purchase.

Links to external websites:

Dealer	Karl Tyler	Demorios	Lithia Ford
1 ton standard cab 4x4 with 8 foot box. Snow plow prep package and bluetooth handsfree phone optional	Chevy has not made 1 Ton standard cab trucks for over a year. This would have been a special order if we wanted to get Chevy trucks. No Bid	GMC has not made 1 Ton standard cab trucks for over a year. This would have been a special order if we wanted to get GMC trucks. No Bid	Ford had two trucks that would work. They were located on the pacific coast and both had hail damage. The cost of these trucks with hail damage was: \$46,714.00
3/4 Ton standard cab 4X4 with 8 foot bed. Snow plow prep group and bluetooth handsfree phone optional.	Chevy has not made standard cab 3/4 ton trucks since January of 2019. this would have been a special order if we wanted to get Chevy trucks. No Bid	GMC has not made standard cab 3/4 ton trucks since January of 2019. this would have been a special order if we wanted to get GMC trucks. No Bid	Ford did not have a a truck in the 3/4 Ton range that met our specs. No Bid

Lithia Dodge
Dodge had one 1 Ton truck that met our specs. \$39,436.00
Dodge had 1 3/4 Ton Truck that met our specs. \$36,077.00



City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Purchase one (1) One Ton Truck for Street Dept.

Date: October 3, 2019

Sponsor(s): Scot Colwell

Prepared by: Scot Colwell

Ward(s) Affected:

<input type="checkbox"/> Ward 1	<input type="checkbox"/> Ward 4
<input type="checkbox"/> Ward 2	<input type="checkbox"/> Ward 5
<input type="checkbox"/> Ward 3	<input type="checkbox"/> Ward 6
<input checked="" type="checkbox"/> All Wards	<input type="checkbox"/> N/A

Action Required:

Please approve the purchase of one (1) 2020 Ford F350 4-wheel drive Regular cab pickup from National Auto Fleet Group, this purchase is through Sourcewell formerly known as NJPA for the purchase price of (\$34,177.00). There is \$37,500.00 budgeted for this purchase.

Recommended Motion(s):

I move the City Council: Please approve the purchase of one (1) 2020 Ford F350 4-wheel drive Regular cab pickup from National Auto Fleet Group, this purchase is through Sourcewell formerly known as NJPA for the purchase price of (\$34,177.00). There is \$37,500.00 budgeted for this purchase.

Timeline:

Referral to committee:	October 7, 2019
Committee discussion:	October 9, 2019
Council action (or sets hearing):	N/A
Public Hearing:	N/A
Deadline:	N/A

Background and Alternatives Explored:

This pickup will be used by the Street Division to clear snow in residential areas, it will be fit with a snow plow and a sander for operation in the winter. It will also be used in the summer to transport Street Division employees, barricades, tools and equipment to job sites.

Financial Implications:

This purchase has been approved in the CIP and is a new request to the fleet. There is \$37,500.00 budgeted to purchase this Street Division pick-up. Some of the funds left over will be used to install a strobe light, work lights, a headache rack and decals. There is no trades included in this purchase.

Links to external websites:



National Auto Fleet Group

A Division of Chevrolet of Watsonville

490 Auto Center Drive, Watsonville, CA 95076

(855) 289-6572 • (831) 480-8497 Fax

Fleet@NationalAutoFleetGroup.com

9/10/2019

9/18/2019 Re-Configured

Quote ID: **20192 R1**

Order Cut Off Date: **TBA**

Scot Colwell
City of Missoula
Fleet Maintenance

435 Ryman Street

Missoula, Montana, 59802

Dear Scot Colwell,

National Auto Fleet Group is pleased to quote the following vehicle(s) for your consideration.

One (1) New/Unused (2020 Ford Super Duty F-350 DRW (F3D) XL 4WD Reg Cab 8' Box 142" WB,) and delivered to your specified location, each for

	One Unit
Contract Price	\$34,177.00
Tax (0.0000 %)	\$0.00
Tire fee	\$0.00
Total	\$34,177.00

- per the attached specifications. Price includes 2 additional key(s).

This vehicle(s) is available under the **Sourcewell (Formerly Known as NJPA) Contract 120716-NAF**. Please reference this Contract number on all purchase orders to National Auto Fleet Group. Payment terms are Net 20 days after receipt of vehicle.

Thank you in advance for your consideration. Should you have any questions, please do not hesitate to call.

Sincerely,

Jesse Cooper
Account Manager
Email: Fleet@NationalAutoFleetGroup.com
Office: (855) 289-6572
Fax: (831) 480-8497



GMC

In order to Finalize your Quote, please submit this purchase packet to your governing body for Purchase Order Approval. Once you issue a Purchase Order please send by:

Fax: (831) 480-8497

**Mail: National Auto Fleet Group
490 Auto Center Drive
Watsonville, CA 95076**

Email: Fleet@nationalautofleetgroup.com

We will then send a W-9 if you need one

**Please contact our main office with any questions:
1-855-289-6572**

Vehicle Configuration Options

ENGINE	
Code	Description
996	ENGINE: 6.2L 2-VALVE SOHC EFI NA V8 FLEX-FUEL, -inc: Flex-Fuel badge on fleet orders only (STD)
TRANSMISSION	
Code	Description
44G	TRANSMISSION: TORQSHIFT 10-SPEED AUTOMATIC, -inc: SelectShift and selectable drive modes: normal, tow/haul, eco and deep sand/snow (STD)
WHEELS	
Code	Description
64K	WHEELS: 17" ARGENT PAINTED STEEL, -inc: Hub covers/center ornaments not included (STD)
TIRES	
Code	Description
TD8	TIRES: LT245/75RX17E BSW A/S (6), (STD)
PRIMARY PAINT	
Code	Description
Z1	OXFORD WHITE
PAINT SCHEME	
Code	Description
—	STANDARD PAINT
SEAT TYPE	
Code	Description
AS	MEDIUM EARTH GRAY, HD VINYL 40/20/40 SPLIT BENCH SEAT, -inc: center armrest, cupholder, storage and driver's side manual lumbar
AXLE RATIO	
Code	Description
X3L	LIMITED SLIP W/3.73 AXLE RATIO, (STD)
ADDITIONAL EQUIPMENT	
Code	Description
47B	SNOW PLOW/CAMPER PACKAGE, -inc: computer selected springs for snowplow application and heavy service front springs (1 up upgrade above the spring computer selected as a consequence of options chosen, Not included if maximum springs have been computed)

	selected as standard equipment) and slide-in camper certification, NOTE 1: Salesperson's Source Book or Ford RV Trailer Towing Guide should be consulted for specific trailer towing or camper limits and corresponding required equipment, axle ratios and model availability, Restrictions apply; see Supplemental Reference or Body Builders Layout Book for details, Expect firmer ride when vehicle is not equipped w/snowplow and/or camper, NOTE 2: May result in deterioration of ride quality when vehicle is not equipped w/snowplow and/or camper
41H	ENGINE BLOCK HEATER
41P	TRANSFER CASE & FUEL TANK SKID PLATES
85S	TOUGH BED SPRAY-IN BEDLINER, -inc: tailgate-guard, black box bed tie-down hooks and black bed attachment bolts
86B	ENGINE IDLE SHUT DOWN - 10 MINUTES, -inc: After a predetermined period, the engine PCM automatically shuts down the engine and triggers the accessory module to shutdown power to the accessories to minimize battery drain
66S	UPFITTER SWITCHES (6), -inc: Located in overhead console
76C	EXTERIOR BACKUP ALARM (PRE-INSTALLED)
OPTION PACKAGE	
Code	Description
620A	ORDER CODE 620A

2020 Fleet/Non-Retail Ford Super Duty F-350 DRW XL 4WD Reg Cab 8' Box 142" WB

WINDOW STICKER

2020 Ford Super Duty F-350 DRW XL 4WD Reg Cab 8' Box 142" WB

CODE	MODEL	MSRP
F3D	2020 Ford Super Duty F-350 DRW XL 4WD Reg Cab 8' Box 142" WB	\$39,505.00
OPTIONS		
996	ENGINE: 6.2L 2-VALVE SOHC EFI NA V8 FLEX-FUEL, -inc: Flex-Fuel badge on fleet orders only (STD)	\$0.00
44G	TRANSMISSION: TORQSHIFT 10-SPEED AUTOMATIC, -inc: SelectShift and selectable drive modes: normal, tow/haul, eco and deep sand/snow (STD)	\$0.00
64K	WHEELS: 17" ARGENT PAINTED STEEL, -inc: Hub covers/center ornaments not included (STD)	\$0.00
TD8	TIRES: LT245/75RX17E BSW A/S (6), (STD)	\$0.00
Z1	OXFORD WHITE	\$0.00
—	STANDARD PAINT	\$0.00
AS	MEDIUM EARTH GRAY, HD VINYL 40/20/40 SPLIT BENCH SEAT, -inc: center armrest, cupholder, storage and driver's side manual lumbar	\$0.00
X3L	LIMITED SLIP W/3.73 AXLE RATIO, (STD)	\$0.00
47B	SNOW PLOW/CAMPER PACKAGE, -inc: computer selected springs for snowplow application and heavy service front springs (1 up upgrade above the spring computer selected as a consequence of options chosen, Not included if maximum springs have been computer selected as standard equipment) and slide-in camper certification, NOTE 1: Salesperson's Source Book or Ford RV Trailer Towing Guide should be consulted for specific trailer towing or camper limits and corresponding required equipment, axle ratios and model availability, Restrictions apply; see Supplemental Reference or Body Builders Layout Book for details, Expect firmer ride when vehicle is not equipped w/snowplow and/or camper, NOTE 2: May result in deterioration of ride quality when vehicle is not equipped w/snowplow and/or camper	\$245.00
41H	ENGINE BLOCK HEATER	\$100.00
41P	TRANSFER CASE & FUEL TANK SKID PLATES	\$100.00
85S	TOUGH BED SPRAY-IN BEDLINER, -inc: tailgate-guard, black box bed tie-down hooks and black bed attachment bolts	\$595.00
86B	ENGINE IDLE SHUT DOWN - 10 MINUTES, -inc: After a predetermined period, the engine PCM automatically shuts down the engine and triggers the accessory module to shutdown power to the accessories to minimize battery drain	\$250.00
66S	UPFITTER SWITCHES (6), -inc: Located in overhead console	\$165.00
76C	EXTERIOR BACKUP ALARM (PRE-INSTALLED)	\$140.00
620A	ORDER CODE 620A	\$0.00

Please note selected options override standard equipment

SUBTOTAL	\$41,100.00
Advert/ Adjustments	\$0.00
Manufacturer Destination Charge	\$1,595.00
TOTAL PRICE	\$42,695.00

Est City: N/A MPG

Est Highway: N/A MPG

Est Highway Cruising Range: N/A mi

Any performance-related calculations are offered solely as guidelines. Actual unit performance will depend on your operating conditions.

Standard Equipment

MECHANICAL

Engine: 6.2L 2-Valve SOHC EFI NA V8 Flex-Fuel -inc: Flex-Fuel badge on fleet orders only
Transmission: TorqShift 10-Speed Automatic -inc: SelectShift and selectable drive modes: normal, tow/haul, eco and deep sand/snow
Limited Slip w/3.73 Axle Ratio
GVWR: 14,000 lb Payload Package
50-State Emissions System
Transmission w/Oil Cooler
Electronic Transfer Case
Part-Time Four-Wheel Drive
72-Amp/Hr 650CCA Maintenance-Free Battery w/Run Down Protection
157 Amp Alternator
Class V Towing Equipment -inc: Hitch, Brake Controller and Trailer Sway Control
Trailer Wiring Harness
7230lbs. Maximum Payload
HD Shock Absorbers
Front And Rear Anti-Roll Bars
Firm Suspension
Hydraulic Power-Assist Steering
34 Gal. Fuel Tank
Single Stainless Steel Exhaust
Dual Rear Wheels
Auto Locking Hubs
Front Suspension w/Coil Springs
Leaf Rear Suspension w/Leaf Springs
4-Wheel Disc Brakes w/4-Wheel ABS, Front And Rear Vented Discs, Brake Assist and Hill Hold Control

EXTERIOR

Wheels: 17" Argent Painted Steel -inc: Hub covers/center ornaments not included
Tires: LT245/75Rx17E BSW A/S (6)
Regular Box Style
Steel Spare Wheel
Full-Size Spare Tire Stored Underbody w/Crankdown
Clearcoat Paint
Black Front Bumper w/Black Rub Strip/Fascia Accent and 2 Tow Hooks
Black Rear Step Bumper
Black Side Windows Trim and Black Front Windshield Trim
Black Door Handles

Black Manual Side Mirrors w/Manual Folding
Manual Extendable Trailer Style Mirrors
Fixed Rear Window
Light Tinted Glass
Variable Intermittent Wipers
Aluminum Panels
Black Grille
Front License Plate Bracket
Tailgate Rear Cargo Access
Manual Tailgate/Rear Door Lock
Fully Automatic Aero-Composite Halogen Auto High-Beam Daytime Running Lights Preference Setting Headlamps w/Delay-Off
Cargo Lamp w/High Mount Stop Light
Cab Clearance Lights

ENTERTAINMENT

Radio: AM/FM Stereo w/MP3 Player -inc: 4 speakers
Radio w/Seek-Scan
Fixed Antenna
SYNC Communications & Entertainment System -inc: enhanced voice recognition w/911 Assist, 4.2" LCD center stack screen, AppLink and 1 smart-charging USB-C port

INTERIOR

4-Way Driver Seat -inc: Manual Recline and Fore/Aft Movement
4-Way Passenger Seat -inc: Manual Recline and Fore/Aft Movement
Manual Tilt/Telescoping Steering Column
Gauges -inc: Speedometer, Odometer, Oil Pressure, Engine Coolant Temp, Tachometer, Transmission Fluid Temp, Engine Hour Meter, Trip Odometer and Trip Computer
Mobile Hotspot Internet Access
Manual Air Conditioning
Illuminated Locking Glove Box
Interior Trim -inc: Chrome Interior Accents
Full Cloth Headliner
Urethane Gear Shift Knob
HD Vinyl 40/20/40 Split Bench Seat -inc: center armrest, cupholder, storage and driver's side manual lumbar
Day-Night Rearview Mirror
Passenger Visor Vanity Mirror
2 12V DC Power Outlets
Front Map Lights
Fade-To-Off Interior Lighting

Full Vinyl/Rubber Floor Covering
Underhood And Pickup Cargo Box Lights
Smart Device Remote Engine Start
Instrument Panel Covered Bin and Dashboard Storage
Manual 1st Row Windows
Systems Monitor
Trip Computer
Outside Temp Gauge
Analog Display
Seats w/Vinyl Back Material
Manual Adjustable Front Head Restraints
Securilock Anti-Theft Ignition (pats) Engine Immobilizer
Air Filtration

SAFETY

Driveline Traction Control
Side Impact Beams
Dual Stage Driver And Passenger Seat-Mounted Side Airbags
Tire Specific Low Tire Pressure Warning
Dual Stage Driver And Passenger Front Airbags w/Passenger Off Switch
Safety Canopy System Curtain 1st Row Airbags
Mykey System -inc: Top Speed Limiter, Audio Volume Limiter, Early Low Fuel Warning, Programmable Sound Chimes and Beltminder w/Audio Mute
Outboard Front Lap And Shoulder Safety Belts -inc: Height Adjusters
Back-Up Camera



City of Missoula, Montana
Item to be Referred to City Council Committee

Committee: Public Works

Item: Waiver of Missoula Municipal Code Chapter 9.30 Noise Control for MDT at Orange Street Underpass for concrete testing.

Date: October 2, 2019

Sponsor(s): Troy Monroe

Prepared by: Troy Monroe

Ward(s) Affected:

<input checked="" type="checkbox"/> Ward 1	<input type="checkbox"/> Ward 4
<input type="checkbox"/> Ward 2	<input type="checkbox"/> Ward 5
<input type="checkbox"/> Ward 3	<input type="checkbox"/> Ward 6

Action Required: Recommend approval of a waiver from MMC 9.30 Noise Control for HDR Inc., an engineering contractor for Montana Department of Transportation for concrete borings in the Orange Street underpass.

Recommended Motion(s):

I move the City Council: Approve a waiver from MMC 9.30 Noise Control for HDR Inc., an engineering contractor for Montana Department of Transportation for concrete borings in the Orange Street underpass.

Timeline:

Referral to committee: October 7, 2019
Committee discussion: 10/9/2019

Deadline: N/A

Background and Alternatives Explored:

Montana Department of Transportation will be performing structural testing of the Orange Street underpass encompassing concrete borings above and below the underpass in addition to soil testing already conducted.

Due to the high amount of traffic on Orange Street MDT has limited construction to night-time, 7 PM to 7 AM Sunday through Thursday. Work is scheduled to start October 22, 2019 and run for approximately 3 nights. The night-time work will be approximately 8 hours each night. All other work will occur during normal working hours.

The work within the Orange Street underpass will utilize a single traffic lane. Approved traffic control plans will detour northbound Orange Street to North 2nd Street West via Spruce Street. Southbound Orange Street will remain within the underpass.

MMC 9.30.040(c) Construction projects shall be subject to the maximum permissible noise levels specified for industrial zones for the period within which construction is to be

completed pursuant to any applicable construction permit issued by proper authority. If no time limitation is imposed, then for a reasonable period for completion of project.

Development Services Supports this request

Financial Implications: None