

PRE-BID CONFERENCE *Minutes

****Bold and italic text indicates discussion during the meeting in addition to information presented in the Pre-Bid Conference Agenda***

PROJECT: South Wind Water and Sewer District Phase 2 improvements
OWNER: **South Wind** Water and Sewer District
ENGINEER: NCI Engineering Co.
DATE: 15 March 2018
TIME: 1:30 p.m.
LOCATION: NCI Engineering, Great Falls
BIDDING** ***March 29th 2018... Must use originally stamped hard copied contract document to bid the project.

Introductions:

- Lyle Meeks, NCI 406-453-5478
- Ralph McGillivray, NCI
- Krista Hanson, NCI
- ****See also pre-bid attendance sheet and planholder list attached.***

Background:

- District has same boundary as Trailer Terrace Cooperative Inc., a non-profit cooperative that owns the land under the homes.
- Individual homeowners own their homes and lease lots from the Cooperative.
- Co-op / District were formed in 2012 and purchased the land in 2014.
- Work on this phase will be north of 55th Ave. South in the NE corner of the site.
- Existing sewer treatment is a facultative lagoon with no discharge permit, no legal discharge, and was designed to leak into the ground.
- Phase 1 rebuilt distribution and collection systems south of 55th Ave. with a new water source and storage tank.
- ****this project is phase 2 work. See scope discussion.***
- Phase 3 ****future work*** will rebuild collection and distribution pipe systems north of 55th Ave.
- Existing lagoon is probably sealed off. The incoming WW collection line comes in at the bottom of the existing wet well. There is no sump in the wet well and former owner raised floats in lift station to back raw sewage up in RCP collection system and use it as a drain field. First manhole to west is surcharged, but can be used as sump for bypass pumping. We may add a bid item for sewer cleaning subject to discussion. See sht. WW2.
- ****Lyle explained which adjacent property owners were friendly and which were not.***
- **Funding Sources**
 - WRDA – US Army Corps of Engineers
 - TSEP
 - CDBG

****project estimate \$1,000,000***

General Scope of work:

- Install 18000 gpd submersible lift station
- Install 18000 GPD WWTP **we have two vendors who have submitted to be prequalified for the WWTP. We took initial submittals and have asked for additional information. We will have prequalification process completed by early next week.*
- Install 2.3 acre drain field on site northeast of lagoon.
- There will be no temporary sewer service requirements other than bypass pumping into lagoon from existing sewer MH to west.
- Construction water is available on site, from District's back up well nearby.

Soils and Geotech.

- See BH logs attached. BH7 is near lift station.
- Soil profile typical of Sand Coulee Creek bottom. Silts, silty sand, silty loam above 6 ft. deep and fine sand below.
- Groundwater anticipated at 6 to 10 feet deep. This is a long way from a surface water source and our investigation for the groundwater discharge permit did not show high transmissivities in the area. We do not anticipate a high volume of groundwater, and when we tested our drill holes they dried up quickly at very low removal rates

** Questions were asked about depth of sand, groundwater elevations, and distance to rock at Lift Station site. NCI attaches a well log for the adjacent public water supply well with these meeting minutes. Rasmussen was the court owner when well was drilled. Static water level was 54 feet at that time, and soils were "gray silt" to 75 ft. BGS. Groundwater we saw in borehole 7 was probably perched groundwater from the adjacent lagoon that was designed to leak. We punched one 4 inch hole to 20 feet on the downgradient side of the drain field and hit groundwater at 12 or 14 feet. We pumped it dry very quickly with a two inch diameter submersible pump, and calculated transmissivities from there.*

Staging areas

- Neighbor to the east **of existing treatment pond* is unfriendly.
- There is staging room **south of existing pond* adjacent to the treatment plant site. Feel free to clear trees and such for more room. There is an enclosed fenced area for more valuable equipment. These areas are accessible from the south.
- At the drainfield, property owner to the north **of drainfield* is unfriendly. There is a 60 foot right of way (Patterson Avenue) to the north for buffer room and limited staging.
- I suggest talking to Ward Brothers (Auto Salvage) if you want more staging area to west of drain field.

Utility service and conflicts:

- There may be a 4 inch water main in the way of the forcemain piping. There are no drawings on the water system. **Contractor will explore for the water line (bid item) and if a problem is found, there is another bid item to move/relocate water*, if need be. There will be temporary service outage notices for this.
- Owner will pay for electrical service to site.
- No need for telephone as dialer is cell dialer
- We are not providing gas service.
- Water is available from District's back up well.

Contract admin:

- Inspector Krista Hanson, PE
- Ralph McGillivray on submittals and day to day admin.
- Lyle Meeks as PM
- Crystal Morgan grant admin and drawdowns
- Ron Lorenz, District Board Chairman (788-0137)

Schedule –

**Vendors have submitted their packages to NCI, NCI will forward this information back to Contractors, hopefully by Monday 19th.*

- 120 calendar days. **We could possibly allow a split season, but no longer then a 120 days of time will be provided.*
- Expect some long lead time on equipment **maybe 90-100 days* and will work with contractor on NTP dates.
- We need the project finalized by Oct. 1. Enough time? **little grumbling, but Contractors need to see vendor packages to judge project time*

Division 1 Items:

1. **DBE Requirements** Refer to Instructions to Bidders, Article 24, Special Provisions and Section 00900 Funding Agency Special Provisions. There are DBE goals. There is no advertising requirement in Section 0900 article 1.5.2 but Contractors must prove “outreach” etc.
2. **EEO Requirements** Refer to Instructions to Bidders and 00900 Funding Agency Special Provisions.
3. **Federal Davis Bacon Wage Rates for Heavy Construction or Montana prevailing rates** ** Contractor to pay the higher rate of the two* apply to this project.
4. **Basis of Award** – Project will be awarded based on the lowest responsive and responsible bid within the project budget. We ask for references for your last several similar project, so include a list of those with contact information.

Peculiar aspect of award is that we did not design around one proprietary treatment plant. There are a number of suitable technologies that are acceptable and we are going through a pre-approval process. We will name pre-approved suppliers in Addendum. After bidding the WWTP supplier must submit design level information to DEQ for approval. After DEQ approval we can proceed with award. We anticipate award maybe 45 days after bidding (mid- May) and will work with contractor on NTP dates.

**Bill Flanagan (Aquapoint Rep from IsiWest), one of the vendors said his WWTP tanks are 80% buried, Contractor may need 8' depth excavation.*

**Award process was discussed. DEQ would not review vendor packages prior to bidding. We will take bids and the WWTP vendor must supply design information per DEQ design guideline requirements for approval. Once DEQ approval process is complete we hope to award contract. DEQ can take up to 60 days for review. Review engineer is John McDunn. There was considerable discussion of GC risk in this endeavor.*

**DEQ has not approved Aquapoint Equipment, DEQ has approved equipment from other vendor, APE from Bozeman who reps Advantex products.*

**Boland asked, "if something is missed or DEQ requires more with treatment, after award is made, what happens?" Lyle, said the vendor is required to meet DEQ design guidelines, but between vendor and contractor, the contract will be made with the GC. The owner will not have a contract with the supplier, and Lyle suggested a more stringent arrangement between GC and supplier relative to guarantee in meeting DEQ design requirement.*

Lyle was thinking we may by addendum have Contractor declare which vendor his bid is with, if both vendors are approved.

**was suggested to put the two vendors separately in bid schedule and Contractor could price one or both.*

5. **Permits (Refer to Section 01208)**

- a. MPDES Storm water Discharge Permit. Contractor will be responsible for permit application, permit fees and compliance with conditions of permit.
- b. Contractor to prepare SWPP.
- c. Must be experienced or be a certified septic system installer by Cascade County.

6. **Project Layout (Refer to Section 01620)** Contractor responsible for layout and construction staking. Jay Kendall did our topo and knows his way around. **Lyle said, Jay does good work.*

Special Provisions (Section 01200)

1. Hours of Work – Generally 40 hours per week (Refer to Article 6)
2. Construction Water will be Contractor's responsibility. (Refer to Article 13)
3. Testing and Inspection Contractor is generally responsible for M/D curves. Owner/Engineer will be responsible for density testing of in-place soils and gravel surfacing.
4. Maintenance of Existing Utilities. Service interruptions up to 4 hours will be allowed for connections to existing mains. Provision of wastewater by-pass pumping is anticipated.
5. Waste Disposal will be Contractor's responsibility.

Sewer piping Discussion Items

3. **Pipe Bedding** – The general intent is to use suitable native material where available. We will pay for import as necessary but hope to use material on site and let you "borrow" it.
4. **Backfill** – The general intent is to use native material from trench excavation. Refer to Section 02222 2.2 for backfill material specifications.

ADDENDA ITEMS:

1. We will by addenda name approved plant equipment suppliers.
2. We will by addenda ask you which treatment plant you propose with your bid.

Questions?

**Discussion on how much GC and vendor can get creative to construct the project, Lyle gave example the lift station could be relocated closer to the WWTP, if approved by Engineer.*

**There are extensive coordination requirements between electrical, mechanical, civil for GC.*

**Lyle indicated that the vendor supplied items may vary between vendors. An example is the dosing chamber and dosing pumps which may not be integral to the treatment plant. We suggest that they be made integral for electrical and control purposes.*

**There were questions as to how long does the plant need to run before Project is accepted (commissioning and testing)? Section 15000 Articles 3.54 and 3.6 cover these items. #.5 requires vendor to supply up to 80 hours onsite for startup and training. We may change this by addenda.*

**There was confusion and discussion regarding who actually is operating the plant, and if problem originates with operator or equipment... Section 15010 Article 3.3.b. The spec requires the vendor to adjust plant operations as necessary to meet permit requirements. There is no requirement for the vendor to supply a certified operator or to take samples for DEQ permitting compliance. We require Vendor to provide extensive ongoing monitoring and review for 2 year warranty period. This will likely be modified somewhat by addendum.*

**Vendor approvals will be out by early next week.. Vendors will provide GC with their package.*

**Warranty (15010 page 9) is for a two year period. Lyle stated one year warranty and he was wrong!*

**There is 2-weeks to bid, is this a problem, not much comment from Contractors. Engineer will take schedule under advisement.*

**No reclamation work at existing treatment pond is necessary with this project.*

**Boland had question on spec section 02645 article 2.0A, on gravelless trenches. We say construction cannot commence when soil moisture content is high. The purpose of this language is to assure that soil at the bottom of the excavation is not compacted. This will be clarified by addendum.*

**Boland had question on Article 00900 Section 1.5.10 regarding need for American Iron and Steel (AIS) requirements. Lyle believes this requirement pertains only when State SRF funding is part of the package, and in this case it is not. We will verify and include answers in addendum as required.*

MONTANA WELL LOG REPORT**Other Options**

This well log reports the activities of a licensed Montana well driller, serves as the official record of work done within the borehole and casing, and describes the amount of water encountered. This report is compiled electronically from the contents of the Ground Water Information Center (GWIC) database for this site. Acquiring water rights is the well owner's responsibility and is NOT accomplished by the filing of this report.

[Return to menu](#)
[Plot this site in State Library Digital Atlas](#)
[Plot this site in Google Maps](#)
[View scanned well log \(7/26/2006 1:56:57 PM\)](#)
NOTICE >>**This well has been deepened by GWIC Id 196518.****<< NOTICE**

Site Name: RASMUSSEN LARRY F.
GWIC Id: 123390

Section 7: Well Test Data

Total Depth: 213
 Static Water Level: 54
 Water Temperature:

Bailer Test *

60 gpm with feet of drawdown after 2 hours.
 Time of recovery 0.01 hours.
 Recovery water level 54 feet.
 Pumping water level 67 feet.

Section 1: Well Owner(s)

1) RASMUSSEN, LARRY F (MAIL)
 TRAILER TERRACE NO.150
 GREAT FALLS MT 59405 [06/20/1988]

Section 2: Location

Township	Range	Section	Quarter Sections
20N	03E	36	SW¼ SE¼ SW¼ NE¼
County			Geocode

CASCADE

Latitude	Longitude	Geomethod	Datum
47.4437	-111.291	MAP	NAD27
Ground Surface Altitude		Ground Surface Method	Datum Date

** During the well test the discharge rate shall be as uniform as possible. This rate may or may not be the sustainable yield of the well. Sustainable yield does not include the reservoir of the well casing.*

Addition**Block****Lot****Section 8: Remarks****Section 3: Proposed Use of Water**

PUBLIC WATER SUPPLY (1)

Section 4: Type of Work

Drilling Method: CABLE
 Status: NEW WELL

Section 5: Well Completion Date

Date well completed: Monday, June 20, 1988

Section 6: Well Construction Details**Borehole dimensions**

From	To	Diameter
0	213	7

Casing

From	To	Diameter	Wall Thickness	Pressure Rating	Joint	Type

Section 9: Well Log**Geologic Source**

330MDSN - MADISON GROUP OR LIMESTONE

From	To	Description
0	20	BROWN SANDY CLAY
20	75	GRAY SILT
75	95	BROKEN SANDSTONE, GRAVEL, RED AND GRAY SHALE (SOME H2O)
95	133	GRAY GREEN SANDSTONE
133	165	GRAY GREEN SANDSTONE WITH PYRITE
165	175	GRAY GREEN SHALE
175	178	RUSTY BROWN SANDSTONE (WATER)
178	185	BROWN LIMESTONE
185	213	LIGHT BROWN LIMESTONE(WATER 193-210 FT)

-1.5	95	7				STEEL
17	213	5				STEEL

Completion (Perf/Screen)

From	To	Diameter	# of Openings	Size of Openings	Description
182	210	5		3/8IN	SAW SLOTS

Annular Space (Seal/Grout/Packer)

From	To	Description	Cont. Fed?
0	0	GALV. SHEET METAL	
0	213	BENTONITE	

Driller Certification

All work performed and reported in this well log is in compliance with the Montana well construction standards. This report is true to the best of my knowledge.

Name:

Company: BYRNE

License No: WWC-318

Date

Completed: 6/20/1988

South Wind Water and Sewer District
Phase 2 WWTP

Pre-Bid Conference – Sign in Sheet

Date: March 15, 2018

Time: 1:30 p.m.

Location: NCI Engineering Co.

Name	Organization	Telephone	Email
Lyle Meeks	NCI Engineering Co.	(406) 453-5478	lylem@nciengineering.com
Ralph McGillivray	NCI Engineering Co.	(406) 453-5478	ralphm@nciengineering.com
Krista Hanson	NCI Engineering Co.	(406) 453-5478	kristah@nciengineering.com
Marvin Ahlstrand	Bjorn Johnson Construction	531-6589	Bjci885@gmail.com
Scott Karaffa	Ed Boland Construction (GC)	761-1063	scott@bolandconstruction.net
Bill Flanagan	isiWest (Vendor)	599-0575	wflanagan@isiwest.com
Tory Mills	United Electric	799-4277	Unitedelectric2004@msn.com
Trent Short	Copper Creek	(406) 868-7366	trent@coppercreekco.com
Nathan White	406 Custom Concrete	750-1974	406customconcrete@gmail.com
Robert Levandowski	Frontier Electric	431-3368	rlevandowski@frontierelectric.us
Steve Carlson	Ed Boland Construction (GC)	761-1063	steve@bolandconstruction.net
Gregory Carlson	Ed Boland Construction (GC)	761-1063	
Jordan Jimenez	Falcon Environmental (Supplier)	(720) 298-9794	Jordan@fecal.us
Adam Simmons	Syblon Reid (GC)	(406) 601-3433	adams@srco.com
Wayne Yearout	Liberty Electric	761-6388	Wayne.yearout@libertyelectricinc.com
Jeff Anderson	Central Excavation (GC)	727-0000	Jeff.anderson@centralph.com
James Ramsey	Geranios Enterprises Inc. (GC)	727-3430	jim@g-e-inc.com

Nick	Geranios Enterprises Inc.	727-3430	nick@g-e-inc.com
Frank Luke	Shumaker (GC)	(406) 727-3537	frank@shumakert-e.com

**Southwind Water & Sewer District
Phase 2
Wastewater Treatment Improvements 2018**

**Deposit: \$100 (non-refundable) Hard Copy
\$25 (non-refundable) Digital Copy through Dropbox**

Pre-Bid Meeting: March 15, 2018

1:30 p.m. at NCI Engineering Co.

Bid Date: March 29, 2018 at 3:00 p.m. at NCI Engineering Co.

- | | |
|---|--|
| 1. NCI Engineering Co.
Lyle Meeks, P.E.
4509 North Star Blvd.
Great Falls, MT 59405
Ph: (406) 453-5478
lylem@nciengineering.com | 2. |
| 3. | 4. |
| 5. Northwest Grading Inc.
6960 North 4 th Street
Dalton Gardens, ID 83815
Ph: (208) 518-7055 (Logan)
office@northwestgrading.com
gregg.larson@northwestgrading.com
Chk #9943 | 6. Advanced Pump Equipment
1408 Gold Avenue #6
Bozeman, MT 59715
Ph: (406) 586-1700

Chk #7174 |
| 7. Ed Boland Construction, Inc.
4701 North Star Blvd.
Great Falls, MT 59405
Ph: (406) 761-1063
scott@bolandconstruction.net
Chk #33325 | 8. |
| 9. Western Municipal Construction Inc.
5855 Elysian Road
Billings, MT 59101
Ph: (406) 254-2106
rmelson@wmc-i.com
Chk #060031 | 10. Geranios Enterprises, Inc.
P.O. Box 2543
Great Falls, MT 59403
Ph: (406) 727-3430
nick@g-e-inc.com
Chk #22487 |
| 11. SRC Contractors
1130 Sibley Street
Folsom, CA 95630
Ph: (406) 601-3433
adams@srco.com
Chk #286 | 12. |
| 13. | 14. |
| 15. | |

All intending to bid on the project must purchase a hard-copy set of plans and specifications.

Digital All Montana Builders' Exchanges

Digital Dodge Data & Analysis
Christopher.brooks@construction.com
Chk #9763

Digital isiWest
William Flanagan
wflanagan@isiwest.com
Chk #

Digital iSqFt
desirree.sibala@cmdgroup.com
Chk #119391

All intending to bid on the project must purchase a hard-copy set of plans and specifications.