WILLITS WWTP HEADWORKS

WEEKLY STATUS MEETING AGENDA

03 January 2007

Weekly Progress Report

- A. Willits
 - 1. Revised Demo and Site Plans
 - 2. Influent Sewer Flow Meter
 - 3. List of Required Details for remainder of Project
 - 4. Submitted 50% QA set to RWQCB on 27 Dec 2006
- B. Coos Bay

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II Goals for the next week

- A. Willits TRL
 - 1. Complete details for Roof Support Beam
 - 2. Complete Influent sewer plan and profile sheet, begin yard piping profiles
 - 3. Specs for Flow Meters and Sliding Bearing Pad for Roof Support Beam
 - 4. Draft other details for yard piping and Headworks Building
- B. Coos Bay SD

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Project Meeting Notes

Date:	January 3, 200	7	Held at:	SHN - Willits/Coos Bay/ Redding/ Eureka	
Time:	9:00am - 10:20) am			
Project:	Willits WWTP Project		Reference:	404027.400	
Attendees:	Coos Bay:	Susan Foreman, Erich Raska, Mark Denning, Steve Donovan, Ron Stillmaker			
	Redding:	Darin Strege			
	Willits:	DeeLynn Carpenter, J.C. England, Tom Herman, Terry Lewis, Mark Steele			
Absent:	John Aveggio				
Add'l CCs:	Richard Sample, Jeff Anderson,				
Purpose of N	Meeting: W	eekly Progress (Check-In		

	Item	Discussion	Action	
	1.	Weekly Progress Report		
10 m	1	Weekly Progress Report Willits Lewis reported on the submission of the 50% QA set to RWQCB on December 26, 2006. Other work accomplished included the revised demolition and site plans; influent sewer flow meter; and updating the list of required details for the remainder of the project. The Design Team discussed, at length, the proposed location of the various flow meters, necessary piping — existing and future, types of existing pumps and proposed pumps and how the pumps will be used; energy costs; size and type of pipe; and how best to meter the flows between the various components of the building, including storm flows; present and future reliable service for meters and the various types/styles of meters (mag meters, flow dart, palmer bolice flum). England expressed sup-	Lewis will prepare technical memo (including process diagram-sheet G5, flow schematic, meters and types, including recommendations), for QA by Donovan. This memo to be shared with Brooktrails and their technical representative, Dale	QA I Ind re-
		port for flum meters as they are generally easier to setup and maintain. Donovan supported mag meters as the most accurate measure for monitoring flow. Team concurred that any metering devise that is used has inherit problems, limited capabilities with rain, backflow, and drift in the instrumentation. Mag meters would add \$30,000-\$35,000 per meter; flow dart meters are about \$10,000.	Frazier (sp) for their review and com- ment. Technical memo to be ready by 1/10/2007, or sooner, for meeting in Eureka.	
		In addition to meeting the City of Willits needs, discussion took place on how best to measure the influent flows from Brooktrails. At England's suggestion and the Design Team concurrence, Brooktrails needs to be included in the discussion of how/what is metered in order to meet the contractual language between the Willits/Brooktrails. Donovan agreed that it was always his intent that there is some type of metering device upstream from the		

Civil * Environmental * Geotechnical * Surveying

Waste Management * Construction Monitoring * Materials Testing

Economic Development * Planning & Permitting * Botanical Surveys

Item	Discussion	Action				
	plant.	Company of the Compan				
SD	Are we talking about pumping out to the surge basins right i	now?				
JC.	Yes	ilow i				
SD	So we will alwaysw be pumping of the surge basins					
MD	We could be overflowing					
JC	Going to the storm ponds during the storm; when we raise o	our capabilities theire will be				
CHE I	less going to the storm basins.	1				
TH	Nowing the situation with Brooktrials do you feel it would b					
JC		At this stage we need to involve Brooktreials (Mike Chapman) -				
SD	Does this need to be instanteous, or total flow for the pond – you will have the number.					
TH	This is more of a perceptional thing – JC's point about brinin Steve always thought there would be some metering device					
25	always his intent.					
SD	We would be able to collect data on the effect of rainfall on the					
TH	Each of the agencies, Brooktrials/COW will need this data, a	idvantageous -				
JC	Information will be needed in the future					
TL	Should be as accruatge as possible					
TH	Industrty standard accuracy is a flow dart - we could defuse the whole thing and put a					
	device upstream from the paint					
SD	Put a memo together on upstream flow; if there is going to be a influent meter, hwat Brooktrails flow will be based on and then send to Brooktrails and let them review.					
TL	I think we should have					
TH	Who's in the best position to write that					
JC	If you can give me a suggestion of what					
TL	He is an expert on flow meters - entire spectrum of what's a	vailable on the market and				
	what the good points are and what the weak spots are.					
ACTI	ION: Terry Lewis will write technical memo to JC and JC up in Oregon to be shared with Brooktrails. Memo					
JC	The local rep in Santa Rosa - is not dependable. Water Plant					
	that was 14 months old, no warranty and can't get parts.					
TH	Without support or ongoing maintenance					
JC	Looks like Hock will be taking ove rhte Marsh McBurney - If Scott gets it					
TH	In terms of your preference, if flow dart was to have a good rep in the area would that be					
	your first choice;					
JC Yes		Aug Trans. The No Services				
TH	City is actually prep for this C/C and City Manager, and bounced off of Brooktrials. W reference an alternative if we can't find a decent rep.					
SD	Concurred.					
SD	How are we going to measure flows to the surge basin -					
JC	Yes, it would be nice.					
SD	If it's all pumped, mag meter.					
TL	It would be a secondary item of oinformation; you would hat the influent meter, you would have mag meters on the pump meters on the ponds to let you know what was being					
MD	Then are we measuring this twice;					
SF	Mark and I've discussed hti sbefore, the bypass in the interin	m box to the surge				
	basin from the influent box, then that flow would be measur	red twice - that's a discussion				
	that has more to do with the storm water. This can be resolve	ed today or the design meeting.				

- T1. Instead of two mag meters on the influent to the screens, perhaps a mag meter further down stream to the flow spliter structure then we would now exactly what was going into the
- JC from an operator perspective, nice to know what you're bring back form the ponds he can equate it in the long run variation of the pond elevation
- SD The mag meter
- THE How much influence does the rainfall Brooktrails should be paying for
- JC 400 gallons per minute; 700-800 gallons per minute; low flow of 150 gallongs pwer minute from Brooktrails
- SD How would the water get gack to the plant?
- TL Explained how the water would
- SD If you are pumping form the collection system to the surge basin you would uise a mag meter on what is coming out of the And then use somekind of low device to let you know what is coming back to the system.
- SF You wouldn't be able to use mag meter
- TL from the return line, ... you would have to do a calculation, neck it down to a 12" line
- JC pulling about 600 gallons per minute
- TH The 18" is an existing pipe and we were using it because it was there—if we were going to step it down for metering purposes.

Several different options were discussed

- SD He was looking for a process diagram here
- TL Need to work on sheet G5 in the plans—I can put this toether with the flow memo
- TH Can we have this for meeting next Wednesday if we had the process diagram
- SD Need to 1/10/2006

Tech memo with flow scamatic and details on some of the hardware.

- DS Almost finished with list of required details for remainder of Project; needs to run this draft list with Coos Bay
- TL For whole project a lot of information from Coos Bay for the 50%, Willits will send to Coos Bay will put it on the FTP site today.
- SF Things like pipe penetration are you going to use the standard details and then call out spec details from that sheet. There are somethings that don't need to be included
- MS Erich and I creating an all encompassing
- TH Absolutely important that this list of details is sahred amongst the entire team then we can QA/QC seems like this is something that needs input from everyone.
- TL Concurred
- TH When you get this list (Mark Susan, etc.) everybody needs to take a close look so that we know it is relative to our plan set

Coos Bay - Weekly Progress from last week.

MD Working on specs for the ______ Need to get _____ Richard Sample in the weekly meetings; he's assuming that we can do somethings control wise - would make sure that Sample and JC.

TH How soon can you have this?

- MD With help on the specs should be able to get this together by the end of the week. Mater of few hours of week. Target to get into your hands by the end of this week. 4:30 pm on Friday.
- SF Erich has got a lot of drafting done on the upper floor and screening; looks a lot better than 50% drawings. She didn't get a whole lot of work done last week;
- TH What are we doing to merge the specs.
- SF TL posting, she's reviewing for final form.
- TH Do you have everything SF needs to do this?
- SF Master copy is on the FTP site;

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