



Phelan Piñon Hills Community Services District

4176 Warbler Road • P. O. Box 294049 • Phelan, CA 92329-4049 • (760) 868-1212 Fax (760) 868-2323

ENGINEERING COMMITTEE MEETING

February 14, 2018 – 4:00 p.m.

PPHCSD Office

4176 Warbler Road, Phelan, CA

AGENDA

1. **Call to Order** – Pledge of Allegiance
2. **Roll Call**
3. **Approval of Agenda**
4. **Public Comment** – Under this item, any member of the public wishing to directly address the Board on any item of interest that is within the subject matter jurisdiction of the Board, but not listed on the agenda, may do so at this time. However, the Board is prohibited by law from taking any action on any item not appearing on the agenda unless the action is otherwise authorized by the Brown Act. Any member of the public wishing to directly address the Board on any item listed on the agenda may do so when the item is being considered by the Board. If you wish to address the Board, please complete a Comment Card and present it to the Board Secretary. Speakers are requested to be brief in their remarks. The Chair may limit each speaker to a comment period of five (5) minutes.
5. **Approval of Minutes** – January 10, 2018
6. **Discussion Regarding Water System**
 - Repairs/Replacements/Updates
 - Water Quality
7. **Discussion Regarding Smithson Springs**
8. **Discussion Regarding Service and Line Replacement**
9. **Review of Well 12 Test Pumping**
10. **Discussion Regarding Pumps and Well Services**
11. **Discussion/Review of Emergency Response Plan**
12. **Review of CIP Projects**
 - 10 Year Tank Rehabilitation & Maintenance Service
13. **GIS & Hydraulic Model Update**
14. **Review of Capital Improvement Budget**

15. Review of Operational Budget

16. Review of Action Items

17. Set Agenda for Next Meeting –March 14, 2018

18. Adjourn

Pursuant to Government Code Section 54954.2(a), any request for a disability-related modification or accommodation, including auxiliary aids or services, that is sought in order to participate in the above-agendized public meeting should be directed to the District's General Manager at (760) 868-1212 at least 24 hours prior to said meeting.

Agenda materials can be viewed online at: <http://www.pphcsd.org/2017.php>



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ENGINEERING COMMITTEE MEETING

January 10, 2018 – 4:00 p.m.

DISTRICT OFFICE

4176 Warbler Road, Phelan, CA

MINUTES

Directors Present: Director Dan Whalen, Chair
President Mark Roberts

Committee Members Absent: None

Staff Present: George Cardenas, Engineering Manager
Sean Wright, Water Operations Manager
Cindy Kecskes, Engineering Technician

- 1. Call to Order and Flag Salute**
Director Whalen called the Meeting to order at 4:04 p.m.
- 2. Roll Call**
All Committee members were present.
- 3. Approval of Agenda**
President Roberts moved to approve the Agenda. Director Whalen seconded the motion. All were in favor and the motion carried.
- 4. Public Comment-** None
- 5. Approval of Minutes – December 13, 2017**
Director Whalen moved to approve the Minutes. President Roberts seconded the motion. All were in favor and the motion carried.
- 6. Discussion Regarding Water System**
 - Repairs/Replacements/Updates
 - Water Quality
- 7. Discussion Regarding Smithson Springs**
- 8. Discussion Regarding Service and Line Replacement**
- 9. Discussion Regarding Change Order from IEC**
- 10. Review of Well 12 Test Pumping**

11. **Discussion Regarding Pumps and Well Services**
12. **Discussion/Review of Emergency Response Plan**
13. **Review of CIP Projects**
 - 10 Year Tank Rehabilitation & Maintenance Service
14. **Review of Strategic Plan – Engineering & Operations Items**
15. **Review of Capital Improvement Budget**
16. **Review of Operational Budget**
17. **Review of Action Items**
 - Leak Detection Webpage Presentation to Board
18. **Set Agenda for Next Meeting** – February 14, 2018
19. **Adjournment**

With no further business before the Committee, the meeting was adjourned at approximately 5:31 p.m.

Link to Agenda Materials and Handouts: <http://www.pphcsd.org>

Phelan Pinon Hills Community Services District

Engineering Committee Capital Improvement Projects

	Priority	Water Master Plan Phase	Location	Description	Fiscal Year (FY)									10-Year Plan (Fiscal) Total	10+ Year Plan (Fiscal)	
					2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023		2023/2024	2024/2025 (Future)
Master Plan Wells	1		Additional Water Supply (Well 9A Replacement, proposed 9C)	Study											\$10,000.00	
				Design / Engineering												\$10,000.00
				Drilling / Housing / Plumbing / Electrical												\$90,000.00
Master Plan Reservoirs	2		Site 6A - New (0.6 MG)	Land Acquisition						\$50,000.00					\$50,000.00	
Master Plan Boosters	1		Site 3C - Booster "A" (264 to 350) GPM & Booster "B" (233 to 350) GPM Upsize	Design / Engineering					\$15,000.00						\$15,000.00	
				Construction						\$65,000.00					\$65,000.00	
				Electrical							\$5,000.00					\$5,000.00
Projects with Growth	1		Site 2B Boosters Upgrade (New Building, piping, electrical)	Design / Engineering											\$10,000.00	
				Housing											\$340,000.00	
				Electrical											\$10,000.00	
	1		Site 4C - New (1.3 MG)	Design / Engineering											\$10,000.00	
				Construction											\$900,000.00	
	1		Site 5B - New (1.2 MG)	Design / Engineering											\$10,000.00	
				Construction											\$700,000.00	
	2		Site 6A Tank - PZ6 Improvement Project - Rezoning Pipeline Project (2 locations)	Design / Engineering					\$5,000.00						\$5,000.00	
				Construction											\$7,500.00	
				Construction (Insertion Valve)							\$7,500.00				\$7,500.00	
	2		Site 7B - New (0.3 MG)	Design / Engineering											\$10,000.00	
				Construction											\$200,000.00	
	2		Site 3C - New (1.7 MG)	Design / Engineering											\$10,000.00	
Construction														\$1,200,000.00		
1		L1 - Additional Booster (Plumbing Req.)	Design / Engineering											\$8,000.00		
			Construction											\$30,000.00		
			Electrical											\$10,000.00		
			SCADA											\$10,000.00		
Smithson Springs		Smithson Springs Canyon Tank and Pipeline	Topo Survey		\$5,000.00									\$5,000.00		
			Study / Design					\$5,000.00						\$5,000.00		
			Construction						\$25,000.00					\$25,000.00		
Dairy Well Pipeline		Chromium 6 Pipeline Project (pipeline, blending tank, booster station, etc.) (loans and grants)	Study / Design			\$700,000.00							\$700,000.00			
			Construction						\$4,000,000.00	\$6,000,000.00	\$7,000,000.00			\$17,000,000.00		
Land Acquisition		Future Expansion Sites	Purchase													
Future Admin. Building		Future Administration Building (APN 3066-251-01, 9535 Sheep Creek Road)	Design / Engineering / County Fees / Construction				\$25,000.00							\$25,000.00		
								\$25,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$100,000.00	\$425,000.00			
Water		Adjudication	Cost	\$300,000.00	\$300,000.00	\$62,000.00	\$10,000.00	\$10,000.00						\$682,000.00		
Solar		Solar	Security video camera install				\$10,000.00							\$10,000.00		
			staff time / incidentals				\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$5,000.00	\$35,000.00			
80ac School Site		PZ6 System Upgrades - Zone extensions, Booster Sta. 2A ("B") upgrade	Booster 2A Improvements				\$120,000.00							\$120,000.00		
													\$0.00			

Phelan Pinon Hills Community Services District

Engineering Committee Capital Improvement Projects (cont.)

		Location	Description	Fiscal Year (FY)										10-Year Plan (Fiscal) Total	10+ Year Plan (Fiscal) 2024/2025 (Future)
				2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024		
				Engineering Services		"									
		Urban Water Management Plan (Update in years ending in "5" and "0")	Update		\$29,800.00						\$36,000.00				\$65,800.00
		2020 Water Master Plan (update hydraulic model)	2018 - GIS & Hydraulic Model / 2019 WMP Update				\$50,000.00		\$80,000.00						\$130,000.00
Total CIP FY Cost:				\$300,000.00	\$334,800.00	\$762,000.00	\$100,000.00	\$40,000.00	\$4,262,500.00	\$6,141,000.00	\$7,105,000.00	\$105,000.00	\$105,000.00		

Engineering Committee 10-Year Maintenance Plan

		Location	Description	Fiscal Year (FY)										10-Year Plan (Fiscal) Total	10+ Year Plan (Fiscal) 2024/2025 (Future)
				2014/2015	2015/2016	2016/2017	2017/2018	2018/2019	2019/2020	2020/2021	2021/2022	2022/2023	2023/2024		
				Projects		Tank Maintenance 10-Year Contract (\$713,500) yr 1-2 (\$198,750) yr 3-10 (\$39,500) plus staff time; (2011 to 2020) potential 10-year contract 2021-2030	Maintenance	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00	\$45,000.00
Level Control/Pump Control/High Pressure Blow-off Control Valves / PRV Station maintenance. Well #14 PRV (164 valves total each year)	Maintenance	\$20,000.00	\$20,000.00			\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$20,000.00	\$140,000.00
Well 6A & 1B Rehabilitation (one well every 4th year after)	Rehabilitation / Maintenance		\$100,000.00				\$150,000.00	\$150,000.00		\$150,000.00		\$150,000.00		\$150,000.00	\$700,000.00
Booster Rehab (5 boosters each year)	Rehabilitation	\$50,000.00	\$50,000.00			\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$50,000.00	\$350,000.00
Exterior Tank Blast and Paint (23 Total - 5 each year)	Blast and Paint							\$95,000.00		\$95,000.00		\$95,000.00		\$57,000.00	\$247,000.00
SCADA site Upgrade (SCADA Upgrade completed 2015)	Maintenance		\$565,000.00			\$50,000.00		\$50,000.00		\$5,000.00					\$670,000.00
PRV (Emergency By-Pass)	rebuilt / replacement and maintenance	\$10,000.00	\$10,000.00			\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$10,000.00	\$100,000.00
1.0 MG Tank Interior Coatings (Res. 1A-3, 2A-2, 2C-2 & 1B) \$80k/tank proposed for 10-year maintenance contract for 2021-2030	Res 1B-1 center column Blast and Paint										\$106,700.00	\$106,700.00	\$106,600.00	\$106,600.00	\$426,600.00
Leak Maintenance Program	Service Line Replacement						\$150,000.00	\$150,000.00	\$150,000.00						\$450,000.00
Solar - Operation and Maintenance Contact with SunPower (10 year)	O & M cost	\$35,575.00	\$35,575.00			\$35,575.00	\$35,575.00	\$35,575.00	\$35,575.00	\$35,575.00	\$35,575.00	\$35,575.00	\$35,575.00	\$35,575.00	\$249,025.00
TESCO - 1 year Contract (Maintenance and Services)	support services									\$15,000.00					\$15,000.00
Reservoir 1B-1	center column replacement							\$5,000.00							\$5,000.00
Smithson Springs	Maintenance / Monitoring						\$5,000.00								\$5,000.00
Total Maintenance				\$160,575.00	\$825,575.00	\$210,575.00	\$465,575.00	\$610,575.00	\$325,575.00	\$517,275.00	\$161,700.00	\$368,600.00	\$161,600.00		
Total CIP & Maintenance				\$460,575.00	\$1,160,375.00	\$972,575.00	\$565,575.00	\$650,575.00	\$4,588,075.00	\$6,658,275.00	\$7,266,700.00				
												10-Year Maintenance Plan:	\$3,802,625.00		
												10-Year Plan Fiscal Total:	\$23,177,925.00		
												10+ Year Projects w/ Growth Total:	\$3,978,000.00		