

8 ATTACHMENT 5 - SCHEDULES

For the “AttachmentName” in the naming convention of BMS, use “Schedule” for this attachment.

Attachment 5 is mandatory. Provide a schedule for implementation of the Proposal showing the sequence and timing of the proposed project or suite of projects. The schedule must show the start and end dates as well as milestones for each task contained in the Work Plan and should be in a horizontal bar or Gantt chart format. The schedule should also illustrate any dependencies or predecessors by showing links between tasks. An assumed end date of the grant agreement will not be established by DWR, instead applicants must include a reasonable estimate of the end date, based on their Proposal including time for any final reports and invoicing. The schedule, Attachment 5 must be consistent with the Work Plan (Attachment 3) and Budget (Attachment 4), and must use August 15, 2013 as the assumed award date of the grant.

At a minimum, the following tasks should be included on the schedule:

- Development of financing*
- Development of environmental documentation and CEQA/National Environmental Policy Act (NEPA) compliance*
- Project design and bid solicitation process*
- Acquisition of rights-of-way, if required*
- Identification and acquisition of all necessary permits*
- Construction start and end dates including significant milestones*
- Implementation of any environmental mitigation or enhancement efforts*
- Construction Administration*
- Project Administration*
- Progress Reports and Final Report submittals*

8.1 Hannah Ranch Flood Control & Habitat Conservation Project

The Gantt chart depicting the Hannah Ranch Flood Control & Habitat Conservation Project (Project) can be found in **Attachment 5, Appendix A**. The schedule for the Project coheres with the Project work plan and the Project budget sections of this application. The Project schedule does not include the development of financing, as all non-state funding will be paid for by Kaweah Delta Water Conservation District (District) through their major structures portion of their reserve fund. Land purchase for the proposed Project was completed prior to all assessment and evaluation tasks and was therefore not included in the Project schedule.

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The assessment and evaluation tasks, which are listed as Task 4.1 – Hannah Ranch Site Groundwater Recharge Facilities Feasibility Study and Task 4.2 – Groundwater Flow and Elevation Monitoring, have already been accomplished and are therefore listed on the schedule without any applied time to the proposed Project. In 2004, the District consulted with Keller/Wegley Consulting Engineers to develop the Hannah Ranch Site Groundwater Recharge Facilities Feasibility Study which identified the Project's benefits to flood control and groundwater recharge. The feasibility study also included the development of design to a conceptual (10 percent) level. The District, through their Groundwater Flow and Elevation Monitoring efforts, built several monitor wells on and around the Project site, which were installed with continuous level recorders (dataloggers), which have, and continue to provide the District with depth to groundwater levels on a daily basis in addition to information pertaining to the direction flow of groundwater during wet, normal and dry conditions.

Although the award date for the Grant would be August 15, 2013, final design for two (2) of the Project's seven (7) constructible components will begin in March, 2013. Final design for the Friant-Kern Canal Turnout Structure and the Hannah Ranch Basin Improvements will be completed by August, 2013. In addition, efforts to satisfy CEQA requirements will begin in March, 2013, and will be completed by August, 2013. Beginning in March, 2013, a biological assessment of the Project site will be completed and an environmental checklist will be prepared. In order to satisfy CEQA requirements, it is envisioned that an Initial Study and a Mitigated Negative Declaration will need to be prepared. It is envisioned that said documents will be prepared, circulated for public review and adopted by the District by August, 2013.

Following the adoption of the Mitigated Negative Declaration and the final design of the Hannah Ranch Basin Improvements, the District, through prior agreements with local material suppliers, will begin excavation of the proposed Project in August, 2013. Excavation efforts are scheduled to be completed in May, 2019.

Upon completion of the final design for the Friant-Kern Canal Turnout Structure, the District will complete an Environmental Assessment (EA) in conjunction with the United States Bureau of Reclamation (Reclamation) as required for the National Environmental Policy Act (NEPA) compliance. Upon completion of the EA and following the public review period, it is envisioned that Reclamation will issue a Finding of No Significant Impact Report (FONSI), which will complete the NEPA requirements for construction of facilities within the Friant-Kern Canal, which is owned by Reclamation.

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Prior to the issuance of the FONSI by Reclamation and immediately following the completion of final design in August, 2013, the District will conduct a public bidding process for the construction of the Friant-Kern Canal Turnout Structure. The public bidding process is scheduled to be completed by the end of September, 2013, with award and execution of the contract in October, 2013. Construction of the Friant-Kern Canal Turnout Structure will be from November, 2013 to January, 2014, during the Friant Water Authority's (FWA) anticipated scheduled maintenance and dewatering of the Friant-Kern Canal. It should be noted that construction of the Friant-Kern Canal Structure could be delayed to November, 2014 or November, 2015 if FWA chooses not to conduct said maintenance and dewatering activities, however, FWA is required to perform these activities every three (3) years at a minimum.

Final design for the remaining five (5) constructible components: Hannah Dam Structure, Hannah Ranch Turnout Structure, Water Return Structure to Kaweah River, Curtain Wall and Drain System, and Kaweah River Pipeline Crossing and Connections; will begin in August, 2013 and is anticipated to be completed in April, 2014. The permitting process is anticipated to begin in November, 2013 and will be completed prior to the construction of any Project components within the Kaweah River. The permits that are anticipated to be obtained are a California Department of Fish and Game Streambed Alteration Permit (1602); and an Army Corps of Engineers Permit for Section 404 of the Clean Water Act.

The District is scheduled to conduct a public bidding process for the remaining Project components following completion of Final Design of said components in April, 2014. The public bidding process is scheduled to be completed in June, 2014, with award and execution of the contract in June, 2014. The following is a list of the remaining Project components and their respective construction timeframes, in chronological order.

- Task 9.2.2 - Hannah Basin Discharge Structure from the Friant-Kern Canal Turnout Structure (June, 2014 to September, 2014); and
- Task 9.3 - Hannah Dam Structure (August, 2014 to July, 2015); and
- Task 9.7 – Curtain Wall and Drain System (September, 2014 to February, 2015); and
- Task 9.4.2 - Hannah Ranch Basin Improvements – Basin/Cell Intertie Structures (August, 2015 to October, 2015); and
- Task 9.5 - Hannah Ranch Turnout Structure (October, 2015 to February, 2016); and

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- Task 9.6 – Water Return Structure to Kaweah River (February, 2016 to May, 2016).

A Biological site survey will be performed prior to the construction of all Project components and several site surveys will be performed during construction of said components and during the excavation of the basin.

Construction administration along with the execution of activities related to the labor compliance program is projected to begin in August, 2013 and apply throughout the entire Project construction schedule.

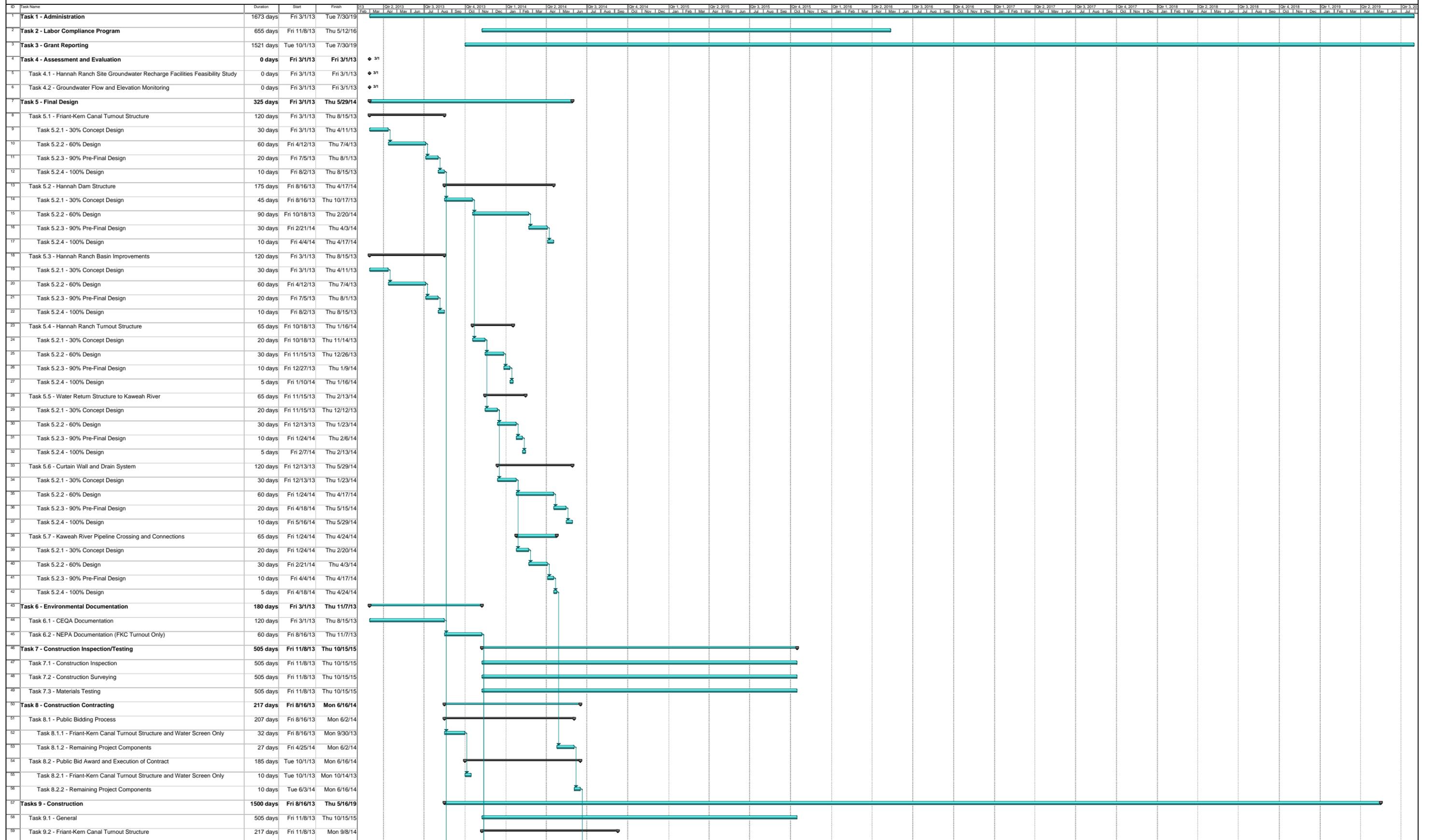
Project Administration and District Legal Service is anticipated to begin in March, 2013 and apply throughout the entire Project construction schedule. Grant Reporting is anticipated to begin in October, 2013, with the submittal of the first quarterly report to the Department of Water Resources (DWR) and conclude with the Project final report which is scheduled to be submitted to DWR in July, 2019.

ATTACHMENT 5 – SCHEDULE

APPENDIX A

**Hannah Ranch Flood Control & Habitat Conservation Project
Schedule**

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Proposal Title: 2013 Hannah Ranch Flood Control & Habitat Conservation Project
Project Title: Hannah Ranch Flood Control & Habitat Conservation Project



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