

Wastewater Treatment Plant in Coalinga, CA

Civil Engineering

Students: Anthony Barajar, EIT, Datoliban Coulibaly, EIT, Issac Lee, EIT, Jason Frank, EIT,
Javier Rios, Mariham Iskandar, Meagan Johnstone, Steven Holm

Advisors: Dr. Fariborz M. Tehrani, Dr. Jesus Larralde, Dr. Ching Chiaw Choo, Dr. Lubo Liu,
Dr. Feyzul Pasha, Dr. William F. Wright, Dr. Lalita Oka

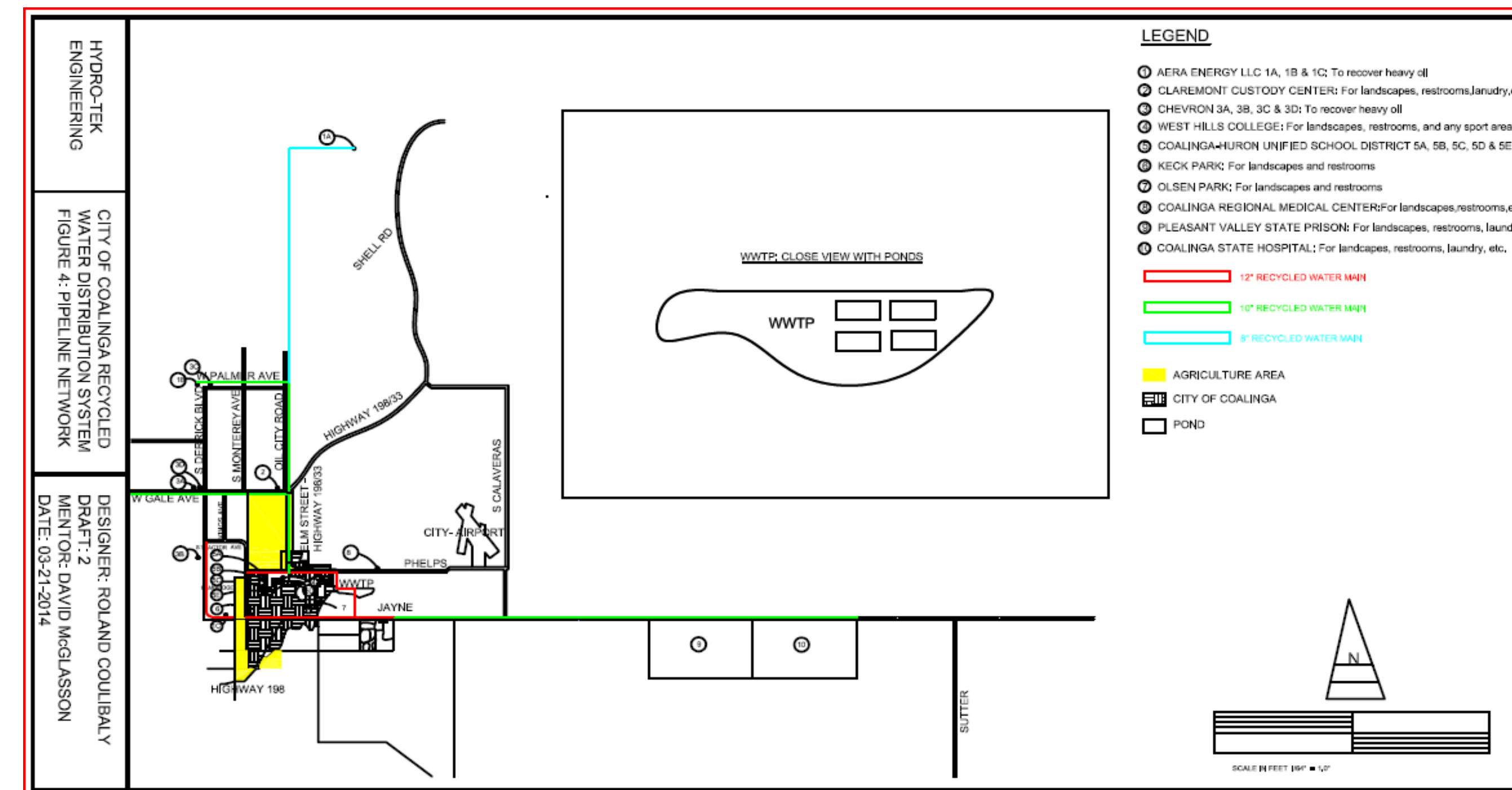
FRESNO STATE

Lyles College of Engineering

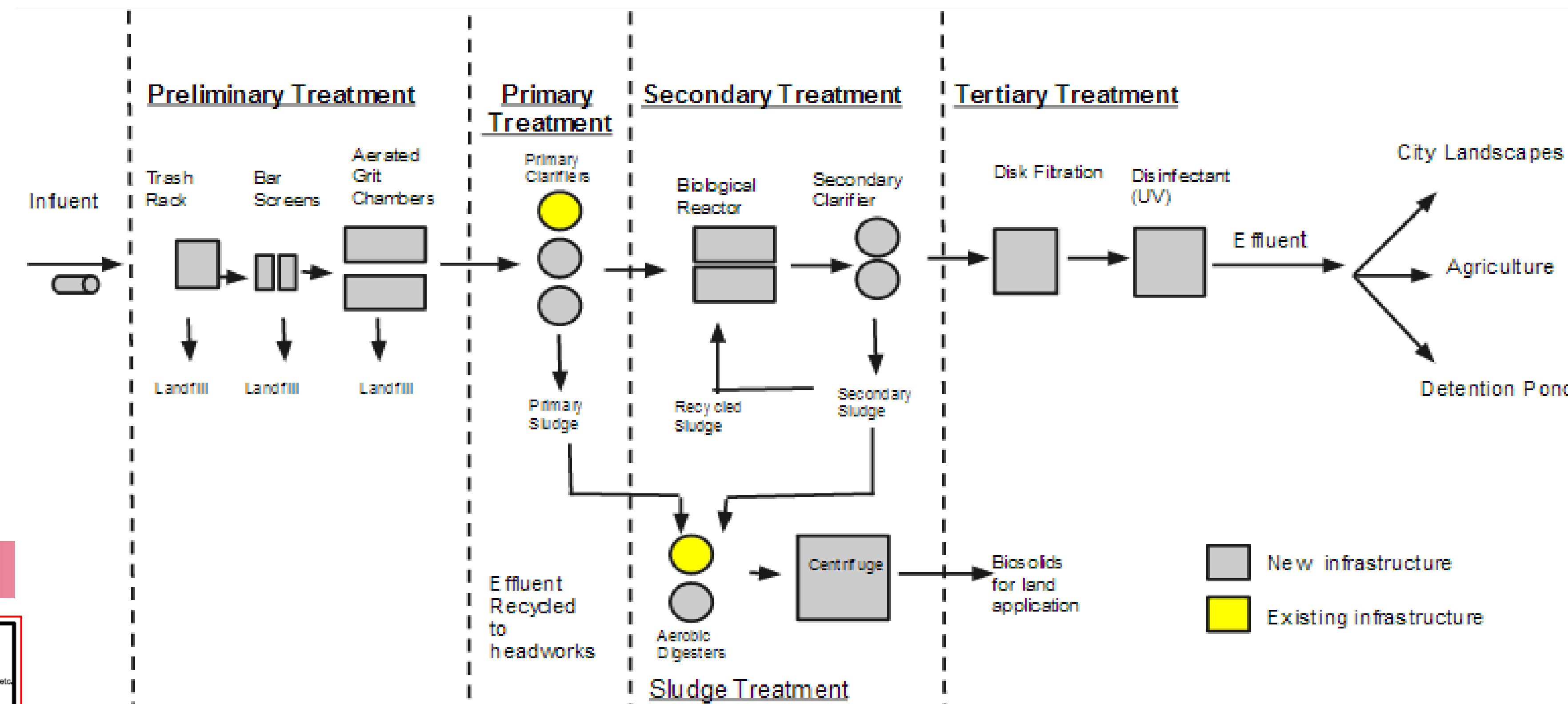
Abstract

The purpose of this design is to expand the existing wastewater treatment plant located in Coalinga, CA in order to meet future expansion of the City and improve water conservation measures. This design will expand existing treatment to tertiary treatment and meet regulatory requirements set by NPDES. The design will also develop a new road system to access the site as well as a new operations office for the WWTP. The overall project will consist of a wastewater treatment, storm drainage, and water distribution system design as well as a structural, geotechnical and transportation design.

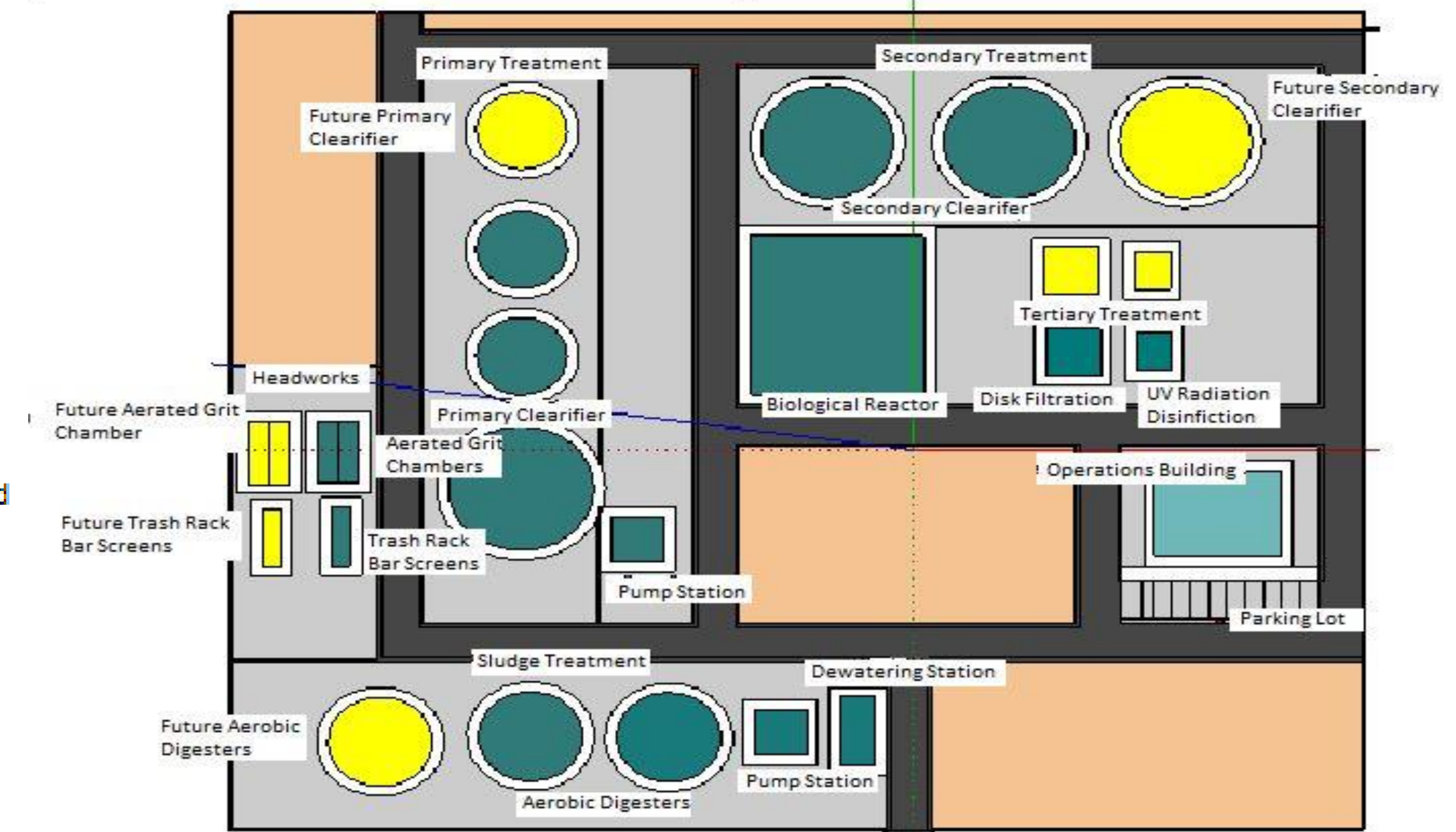
Recycled Water Distribution System



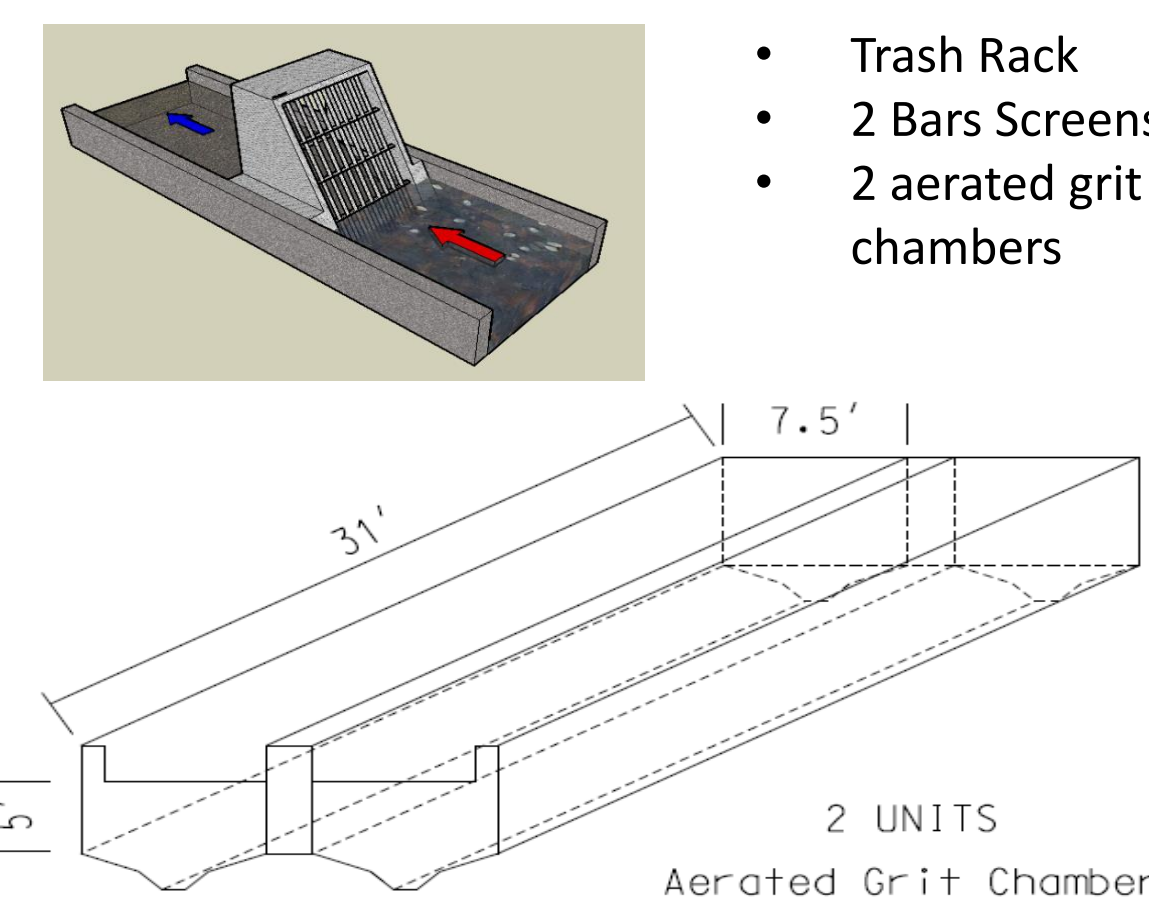
Treatment Train



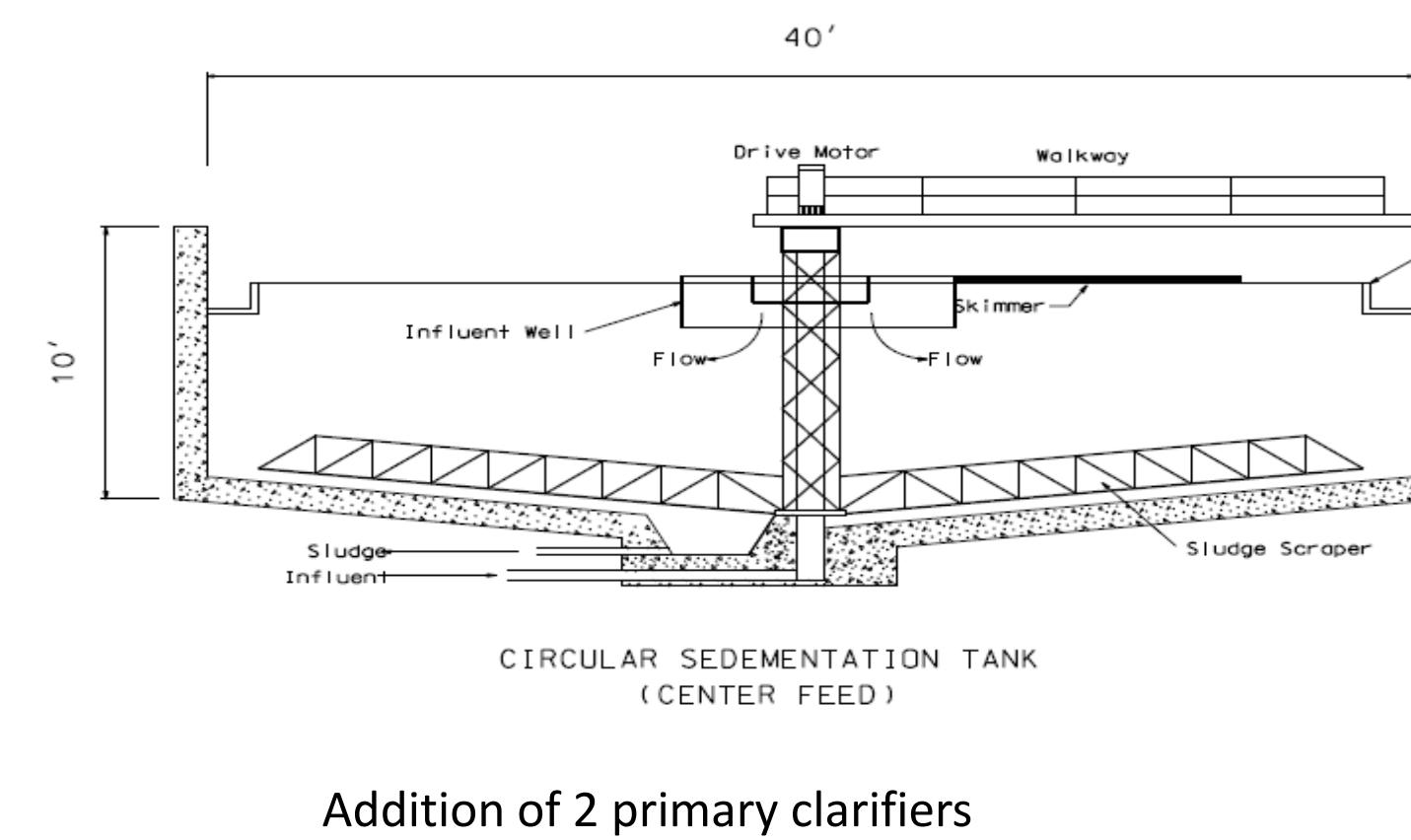
Site Plan



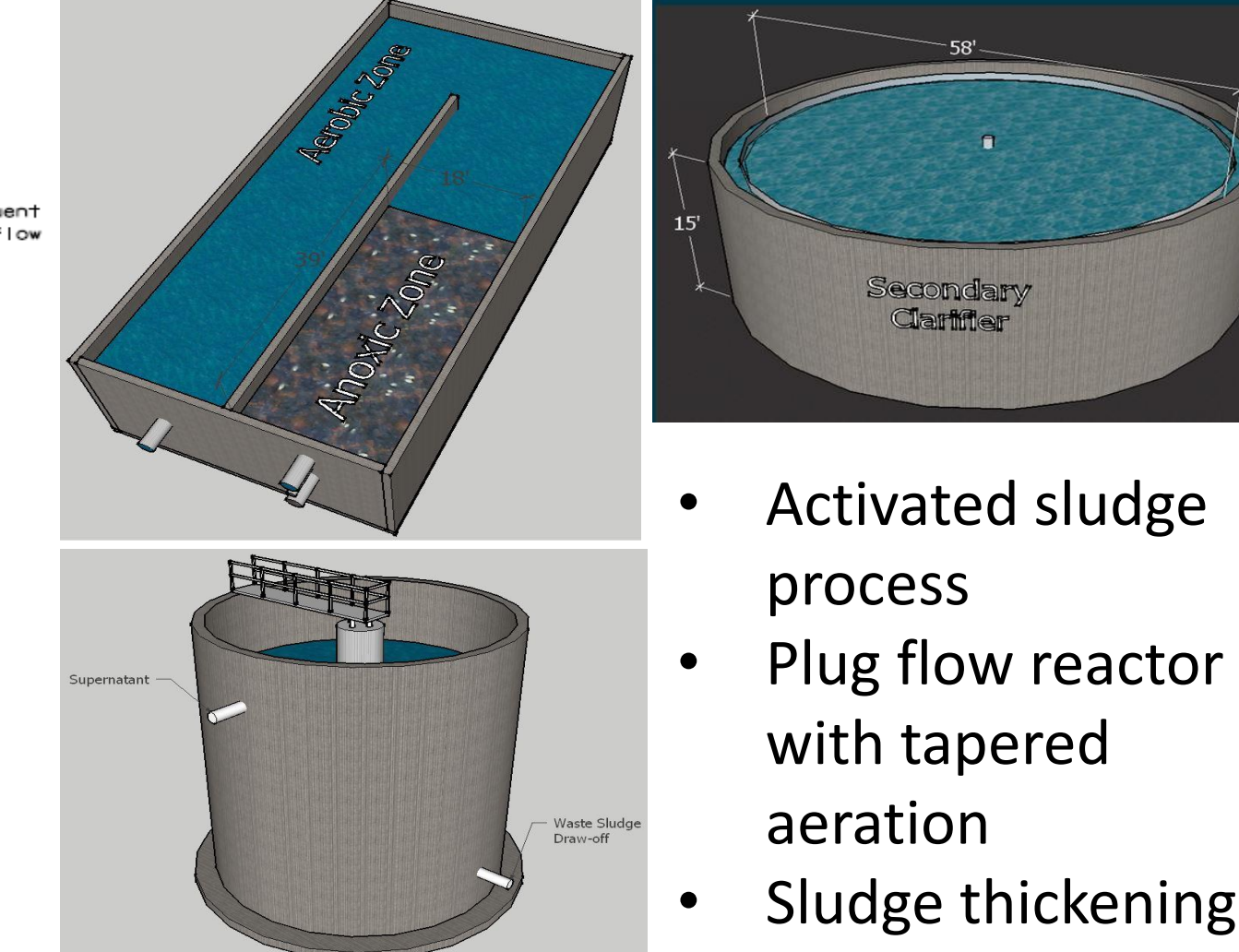
Headworks



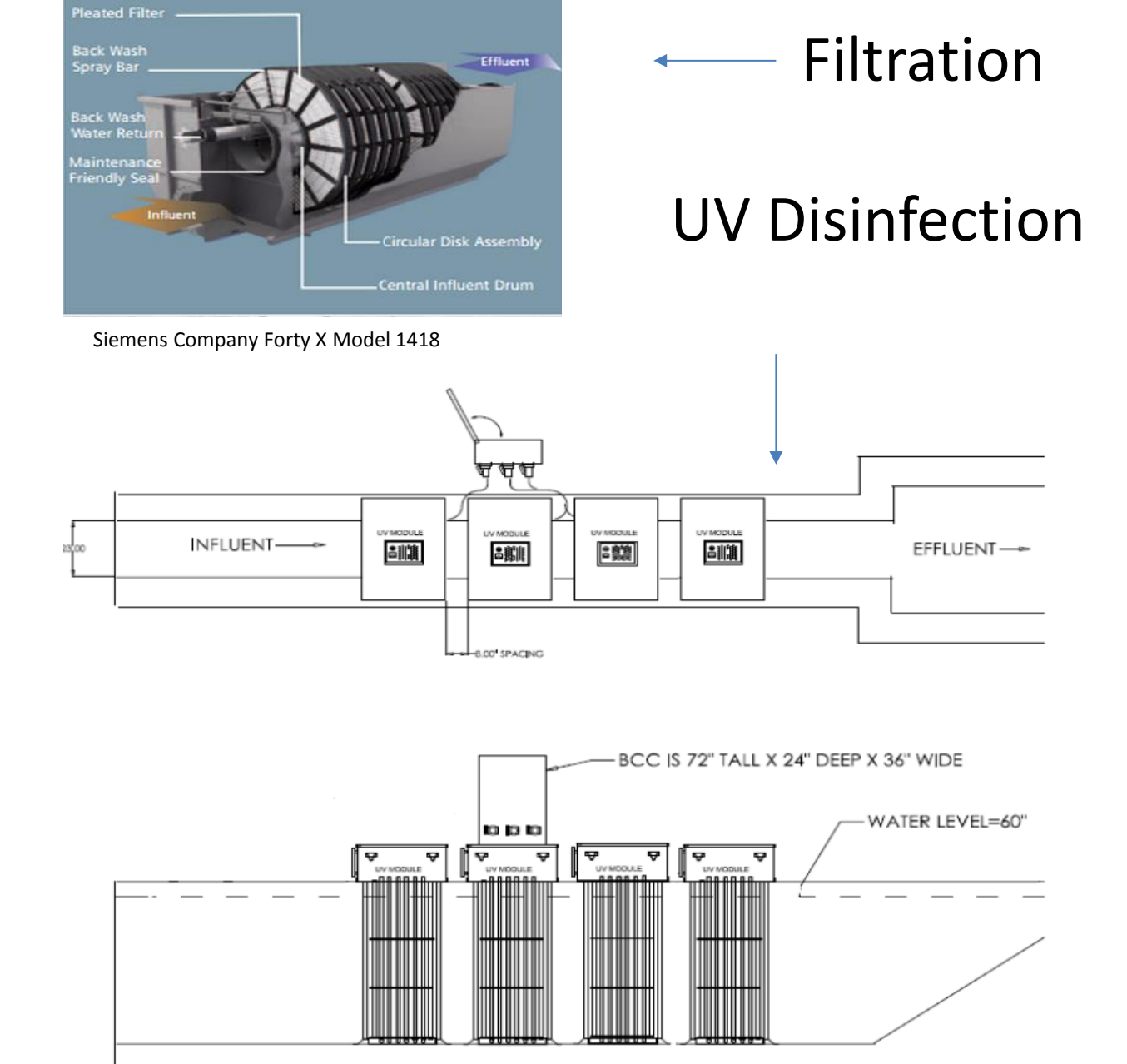
Primary



Secondary



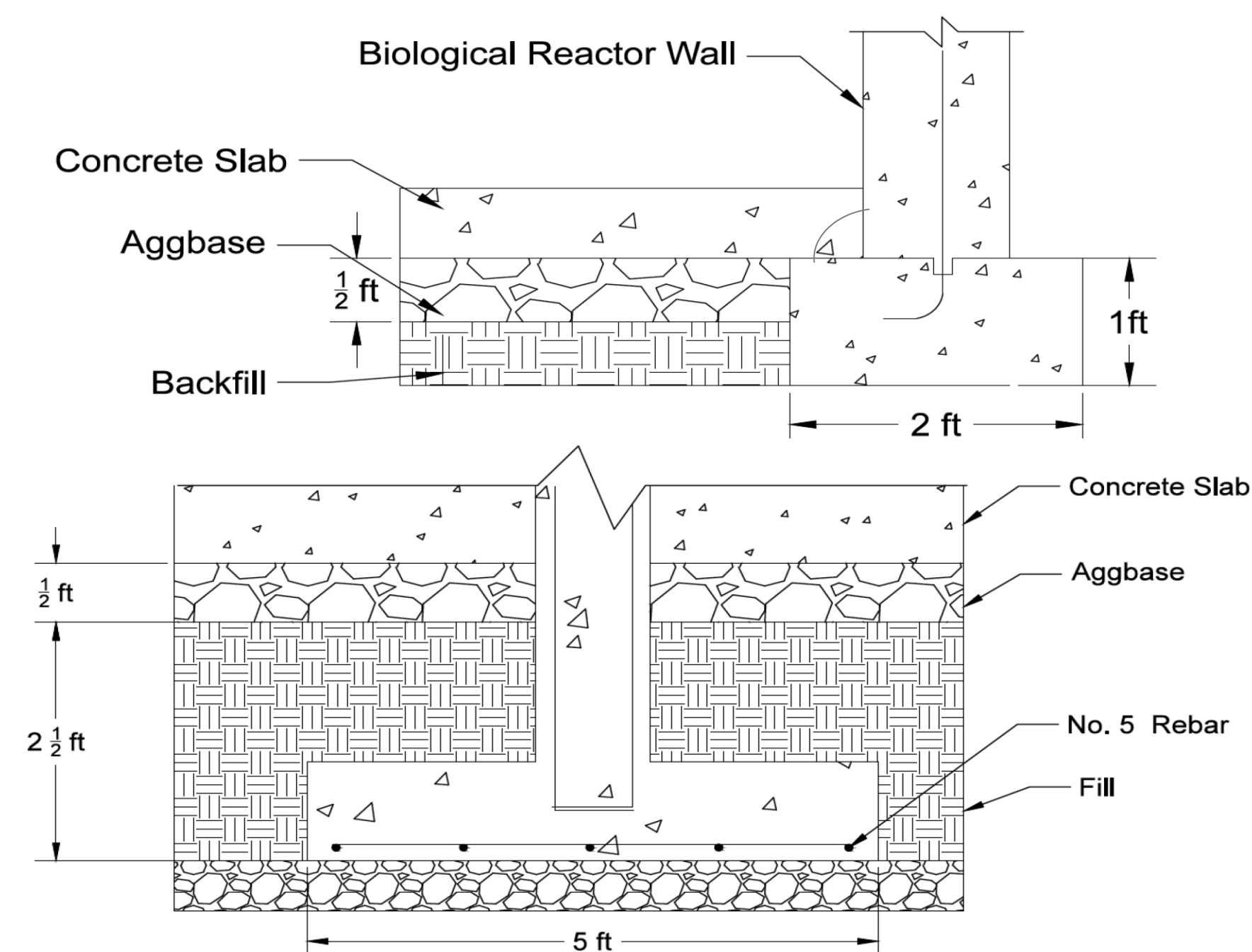
Tertiary



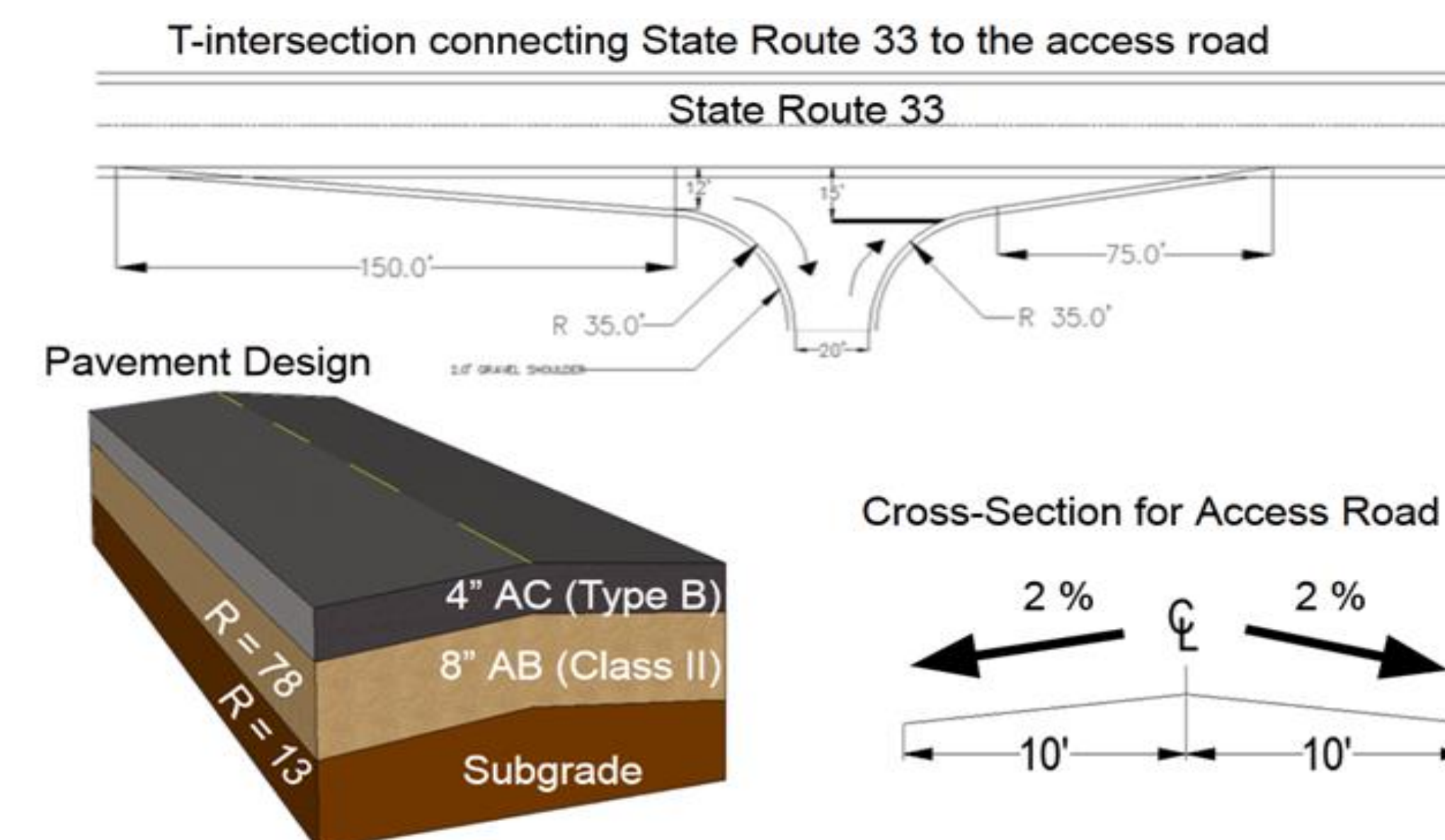
Structural Design



Geotechnical Design



Transportation Design



Sponsors



John Y. Liu, PE,
Deputy District
Director



David McGlasson,
PE, PLS, QSD



Lloyd Suehiro, P.E.

