<table>
<thead>
<tr>
<th>Team #</th>
<th>Team Name</th>
<th>Project</th>
<th>Team &amp; Project Details Link</th>
<th>Presentation Video Link</th>
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<tr>
<td>1</td>
<td>Alpha Engineering Consultants</td>
<td>Old Julian Highway Improvements at Ramona Wine Trail</td>
<td>click here</td>
<td><a href="https://youtu.be/tlQZmlNhQ0M">https://youtu.be/tlQZmlNhQ0M</a></td>
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<td>Lerma Lawless Freeman West</td>
<td>Old Julian Highway Improvements at Ramona Wine Trail</td>
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<td>3</td>
<td>JADES Engineering</td>
<td>Temescal Valley Water District Colladay Pipeline and Reservoir</td>
<td>click here</td>
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<td>4</td>
<td>Fast Track</td>
<td>La Mesa I-8/Center Dr Pedestrian Bridge</td>
<td>click here</td>
<td><a href="https://youtu.be/aKoyM1sd9IQ">https://youtu.be/aKoyM1sd9IQ</a></td>
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<td>5</td>
<td>HEX Engineering</td>
<td>La Mesa I-8/Center Dr Pedestrian Bridge</td>
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<td><a href="https://www.youtube.com/watch?v=YDj8JHunmKo&amp;feature=emb_title">https://www.youtube.com/watch?v=YDj8JHunmKo&amp;feature=emb_title</a></td>
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<td>6</td>
<td>JRB Engineering</td>
<td>Mt. Woodson Trailhead Park</td>
<td>click here</td>
<td><a href="https://youtu.be/aCgb0FqP2Q0">https://youtu.be/aCgb0FqP2Q0</a></td>
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<td>7</td>
<td>Dream Team Consultants</td>
<td>Mt. Woodson Trailhead Park</td>
<td>click here</td>
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To provide greener and safer roads to the community of Ramona, Alpha Engineering Consultants will provide a realignment and new improvements design for Old Julian Highway. The overall design will be per Green streets criteria and will seek to update the corridor to its appropriate collector series classification per County of San Diego Standards.
Old Julian Highway Improvements at Ramona Wine Trail

Old Julian Hwy used to be the main road that connects Ramona to Julian, but has since been replaced by the faster SR-78. This road is seeing recent growth however, but due to it being a rather old and not very efficient design, it is being called to be improved upon by the County General Plan.

Mentors/Sponsors
Professor John Prince
Professor Emir Williams
Professor Charles Stoll
Matthew Madril, PE

please note these are progress documents as the final submittals are not due until Design Day, which the students will be able to share at Design Day
The TVWD Colladay Reservoir and Pipeline Project aims to provide new potable water facilities to service the growing population in Temescal Valley. The project consists of sizing and designing a foundation for a steel 2.8-million-gallon potable water tank. It also includes designing an 8,254 linear-foot PVC C-900 transmission pipeline that will connect the reservoir to TVWD’s existing water system and a 4,986 linear-foot offsite access road that will connect the tank site with Dawson Canyon Road.
Our project focused primarily on structural engineering and its applications to design. Utilizing our class knowledge as well as our intuition, we designed a bridge that corresponds to the LRFD guidelines for pedestrian bridge design.

Mentors/Sponsors
SAGE- Kristofer Patron-Soberano
City of La Mesa- Hamed Hashemian
La Mesa I-8/Center Dr Pedestrian Bridge

The City of La Mesa is currently split by I-8 freeway which limits access between commercial/industrial/retail to housing and public recreation. The goal of the project is to connect the city by building a pedestrian bridge between the south and north side of La Mesa. We decided to build a 12 feet wide pedestrian bridge that connects the south and north side of La Mesa to make it more accessible for people to walk around their city. Due to the elevation difference between the south and the north side, the bridge will be 350 feet long with a 5% slope to the north side with a 131 feet and 3 inches ramp that is sloped by 8.3%.

please note these are progress documents as the final submittals are not due until Design Day, which the students will be able to share at Design Day.

Mentors/Sponsors
John Prince - SDSU Professor
Hamed Hashemian - City of La Mesa
Kristofer Patron-soberano - SAGE
Sam Amen - SDSU Professor
Andrew Schraff - SDSU Professor
Erika Carino - Linscott, Law & Greenspan, Transportation Engineer
Renald Espiritu - Linscott, Law & Greenspan, Transportation Engineer
San Diego County Parks and Recreation Department seeks to establish a new Mt. Woodson Trailhead Park along SR-67 to provide a safer and an overall more enjoyable experience to hikers. The project includes the installation of 4 new parking lots with 218 parking spaces (including ADA), a reinforced concrete bridge that allows two-way access, and roadway redesign along SR-67 to ensure safe access and departure from the park. Amenities at the park will include a four-room restroom facility with drinking fountains.

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Mentors/Sponsors
Professor Marta Miletic- Geotechnical Engineering
Professor Sam Amen- Transportation Engineering

Click here for Zoom Link:
Click here for Presentation Video Link:
Click here for Presentation Board Link:
Click here for Document Link 1:
Click here for Document Link 2:
n/a

Mentor Team Information:

Team 06 - JRB Engineering

Randy Garcia- PM/Construction Engineer
Jaron Floyd- Structural/Site Civil Engineer
Jessica Sutter- Transportation Engineer
John Little- Stormwater & Water/Waste Water Engineer
Breanna Cramer- Geotechnical Engineer
This project consists of a new trailhead park at Mt. Woodson. The development will require an addition of various parking lots that will provide upwards of 200 new parking spaces with careful consideration of existing access that Cal Fire has. The increase in capacity will result in the addition of permanent restrooms, water fountains, and fire hydrants. All grading improvements will need to be ADA compliant. Outside the trailhead park, a traffic study will be conducted to provide traffic recommendations for the increase in traffic that may affect SR-67.

Zoom Link: click here
Presentation Video Link: click here
Presentation Board Link: click here
Document Link 1: n/a
Document Link 2: n/a

please note these are progress documents as the final submittals are not due until Design Day, which the students will be able to share at Design Day

Mentors/Sponsors
Mohamad Ziad Bayasi - Structural
Lima Saft - Transportation
Kyle McCarty, West Coast Civil
Our team was tasked with redeveloping the land at 3500 Sports Arena Blvd. This includes the demolition of the existing arena, surrounding buildings and existing utilities. Our main responsibilities are the water and sewer studies and the resulting utility plans as long as a geotechnical investigation to develop the outer shell of the proposed sports arena. We must also conduct a traffic study to analyze if adjustments need to be made to the existing roadways and intersections.
Our Project focuses on the demolition of the existing San Diego Sports Arena and redeveloping the site into a high-density mixed-use development. This Project required a geotechnical analysis, Water/sewer study, Storm water analysis, Traffic Study, and Structural analysis for the foundation of the arena as well as for the arena shell. All of this was used to support any recommended improvements to the Project Site.
The focus of this project is to use reclaimed water from the Escondido Hale Avenue Resource Recovery Facility to irrigate the North County Golf Course. The project consists of modifying an existing manhole, designing a pump station, and directing the water through a conveyance pipeline to a new treatment system located near the pump house of the golf course. The treatment system will treat the secondary effluent to meet standards for non-potable water reuse (i.e. California’s Title 22), and per the client’s request, include treatment steps that lower E. coli and Total Coliform concentrations (i.e. 5-log removal).
Complex Construction Engineering's engineers designed a construction pad on the San Elijo Beach to allow for a pipeline replacement through Horizontal Directional Drilling. The project highlighted the team's specialties in regards to civil design, construction management, environmental regulations and transportation design.
The San Elijo Beach Construction Pad Development Project is a segment to the San Elijo Land Outfall Project that is designed to construct a graded pad within the San Elijo State Beach. It will serve as a staging area where the General Contractor will be able to perform the pipe pull-back of the new 30" pipeline proposed in the San Elijo Land Outfall Project.
Keystone Construction is providing San Elijo City engineering services for the proposed wastewater pipeline, started from San Elijo Water Reclamation and end by disposing wastewater to the ocean. The purpose of the project is to construct a sandy soil pad and give a well-defined layout of sewerage pipes. The team is providing a safety plans to operate the horizontal Directional Drill (HDD) contractor’s equipment.