MEETING MINUTES
June 8, 2021
Virtual Meeting

Attendees:

Name of Attendee(s)	Company / Agency Name	Email Address
Adam Brown	West Yost	abrown@westyost.com
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Announcements:

- ***PUG***

  Future Presentations for Monthly Meetings – *For future meetings, PUG is open to presentations for future topics.*
- ***NASTT***
  - ***September 27-28, 2021 LIVE***

    South Central Trenchless Technology Conference- Sugar Land, TX.
  - ***November 8-10, 202 LIVE***

    No-Dig - *North Vancouver, BC*
- ***UESI (ASCE Pipelines)***
  - ***UESI Pipelines 2021 Conference -Virtual –*** *Calgary, Alberta, Canada – August 3 – 6, 2021.*
  - ***Public Sector Utility Scholarship deadline is March 31, 2021.***
- ***WEFTEC 2021***
  - *October 16-20 Conference - LIVE - McCormick Place, Chicago and On-line*
  - *October 18-20 Exhibition*

General:

May 2021 Meeting Minutes: An overview of the March meeting was presented (by Alexandra Watson).

Financial Update: The current total in the organization account as of May 31, 2021, is $68,248.70 (Dustin La Vallee)

Project Discussions:

1. (Glenn Hermanson) City of Irvine has 4 syphons, each syphon has 3 barrels for a total of 12-barrel, barrel size ranges from 15", 18"24" 30" to 42" in size.
   - Original configuration of syphons built with sluice gates which were rusted and frozen in place.
   - Inspection of siphons for construction phase with different bid items: removed the sluice gate, clean up the syphon, inspect of barrels than the design phase.
   - 9 barrels were lined even the marginal with minor defects since there was budgeted to line the barrels. 3 in good shape.
   - Junction structure walls lined with polyethylene; hatches were replaced with composite lids.
   - Grit trap installed in the Junction structures.
   - Important to have a good connection between the structure and the pipe. Groove needed to have a good sit for the polyethylene and have a good seal between structures.
   - Glenn shared photos of the syphon and junction structures of the project.

2. (Adam Brown) was awarded new design projects in Irvine and Oakland.
   - Irvine Water District project includes 15,000 feet of recycled main that will be install water.
   - Oakland Sea Port 45,000 of condition assessment.
   - West Yost is looking for engineer and hiring now.

Presentation: "McKinley Park Combined Storage Project", Daniel Breg, Stantec and Luz Nina Buelna, City of Sacramento.

Highlights from the presentation include:
Located in McKinley Park in East Sacramento, the McKinley Water Vault is an off-line combined sewage storage facility owned and operated by the City of Sacramento Dept. of Utilities. The reinforced concrete below-ground storage tank will divert and store 6 million gallons of combined sewage during wet-weather events and reduce sewer surcharging and street flooding. The facility includes a diversion structure, odor control, submersible pumps. The design also included landscape architecture service for the surface restoration and park improvements.

Overview:

A. **History**:
   1. Sacramento is 1 of 2 combined sewer system in California.
   2. 1990 Cease and desist order from California RWQCB.
   3. 1995 – Long Term control Plan (LTCP) was adopted which listed several plans and one of the projects included the McKinley project.
      a. McKinley Vault identified in City's 1995 Combination master plan.
   4. 2015 and 2019 – Updated LTCP.

B. McKinley Vault:

1. Design:
    a. Water Volume Size 6 MG
    b. Design storm: 10-year return Peak flow 60,000 gpm
    c. Design criteria: reduce street flooding and outflows.
    d. Excavation volume 60,000 cubic yards
    e. Concrete: 9,000 cubic yards
    f. Sewer piping to tank: 60-inch diameter
    g. InfoWorks ICM 1D model of the City and 2D modeling of local sewers.
    h. The combine sewer is in the downtown area east Sacramento, land park neighborhoods.
    i. Two sumps that help convey water S1 and S2.
    j. Two Treatment plant Pioneer reservoir and CWTP (combined treatment plant).
    k. Location McKinley Park.
5. "Infraworks" (interactive model) to maximize the reduction on street flooding:
    a. Replacement on 33rd (42")
    b. No Bulkhead at 35th
    c. 6.o MG Storage profile in vicinity of McKinley Park for the duration storm
6. Various configurations were analyzed and styles of storage facilities which included: Cast in place system, Box Culvert, Prestressed concrete circular tank below grade.
7. Stantec also study the flushing systems and best ways to clean the structure such as automatic cleaning systems to reduce the amount of maintenance (no automatic system was used due to budget constraints). Cleaning will be done with hoses.
8. Final design configuration was a rectangular tank to limit the ground excavation and avoid the water table.
9. Weir overflow structure.
10. 2 main interceptors and 42" on Kinley Boulevard and 57" on diameter south of 8th Street and connect to the existing system was easy.
11. 24" pipe that will connect to the effluent pipe from the vault
12. Submersible pump station after the storm is completed to return the flow to the force main.
13. City worried about the odor control of the vault structure and designed included an Odor Control System.
14. Several surface improvements were included in the design to hide as much as possible the storm-sewer structures.

Various diversion structure Section on the power point slide presentation.

C. Odor Control Vault:

1. Size 20' x 30' x 12' depth Structure.
2. Fiberglass vessel has activated carbon volume 442cf and fan designed with 8200 cfm capacity to maintain a negative pressure in the tank and prevents odor release onto the park.

D. **Vault:**

Had submersible pumps station 15 HP design to drain the entire tank within 24 hours thru 14" DIP force main.

E. Public Restroom & Electrical Building:

1. Electrical room in the middle of the building,
2. Had a fake chimney to hide the odor stack from the odor control tank.
3. Bathroom was prefabricated in 3 parts and transported from Nevada.
4. Building architectural style matches the East Sacramento brick building.

The project had a lot of coordination with the Architects from Stantec to design and hide structures and beautify the park.

The Park will include two soccer fields on top of the vault on the park and upgraded picknick facilities.

F. **Request for Bid Proposal (RFBP) (Nina):**

Part 1: prequalification phase: Technical proposal, local business, and rewired Bid attachment. If selected in the prequalification can bid in the bid proposal.

Part 2: Proposal Phase: Bid proposal's GMP, participation, cost information and bid proposal guarantee due to a lot of unforeseen utilities & unique construction.

Scale to select the contractor weighted on: GMP worth 48%, Proposal was 41%, and Interview 11 %.

G. **Construction Photo Timeline (Daniel)**:

Photo timeline of the construction which included the progress of excavation, compaction, rebar, and concrete pour. Started on July 16, 2019 to March 2021. Final grading for the final restauration is under progress.

Q & A:

1) Nancy McWilliams: Who was the selected contractor and how many bids were received?
   WM Lyles Contractors and received 5 bids.
2) Glenn Hermanson: Restrooms come in 3-part from Nevada, what are the 3 parts?
   The based slab & pretension pour in factory and wall and roof from the factory. Assembly on site.
3) How is the fun control? There are some sensors and instrumentation.
4) Michael Jaeger: was the odor control all stainless steel? Yes.
5) Glenn Hermanson: What is the concept of the cleaning? Manual cleaning with hoses
6) What is the overall cost of the project? 30 million construction but the construction bid was at 25 million.
7) Nancy - Do you ended up with the lowest bidder?
   Based on the point system it was not the lowest bidder.
   Good process for facility projects and good way for the City and stakeholders
   Pre-qualifications and then proposal first.

Thank you to Daniel Breg and Luz Nina Buelna for a great presentation and contribution to PUG monthly meeting.

Next Meeting:

The next meeting is scheduled for Tuesday, July 13, 2021. **"Practical Approaches for Seismic Resiliency for Small and Midsized Water and Wastewater Systems"**, Ahmed Nisar, Infra Terra.