Jonah Velasquez

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My Key Qualifications

- **PE licensed in Arizona** through the State Board of Technical Registration.
- Hydraulic modeling in **WaterGEMS, SewerGEMS, and Excel** for demand, flow, and capacity evaluations across 7 municipal projects.
- Designed **9 bid-ready plan sets covering 11.8 miles** of water main and sewer rehabilitation in AutoCAD Civil 3D.
- Engineer's estimates and bid packages aligned with **AWWA standards**, keeping low bids within 6% across 5 publicly bid projects.
- Construction administration on pipeline and lift station work: **38 RFIs and submittals** with a 3-day average review cycle.
- Two years at **Pima County Regional Wastewater Reclamation**, reviewing consultant designs for a public utility's collection system and force main projects.
- Proficient with **AutoCAD Civil 3D, Bluebeam Revu, ArcGIS**, and Excel-based project status dashboards.

Experience

Civil Engineer — **WestLand Engineering & Environmental Services**, civil engineering and environmental consulting firm

Jul 2023 – Present · 3 yrs 4 mos

- Designed water main and sewer rehabilitation packages for municipal utility clients, delivering 9 bid-ready plan sets covering 11.8 miles of pipeline improvements with alignments, profiles, standard details, and utility conflict resolutions in AutoCAD Civil 3D and Bluebeam Revu.
- Built and calibrated network models in WaterGEMS, SewerGEMS, and Excel for demand, flow, and capacity evaluations, supporting design decisions on 7 pressure zone and collection system projects with model scenarios completed 2 weeks faster than prior spreadsheet-only reviews.
- Developed quantity-based engineer's estimates, technical specifications, and bid packages aligned with AWWA standards, keeping low bids within 6% of engineer's estimates across 5 publicly bid capital projects.
- Supported construction administration for pipeline and lift station work, turning around 38 RFIs and submittals with an average review cycle of 3 business days in coordination with project managers and operations representatives.
- Standardized status tracking with Excel dashboards for scope, budget, and schedule reporting, improving on-time monthly reporting for public utility clients from 7 of 10 projects to 10 of 10.

Project Engineer — **Pima County Regional Wastewater Reclamation Department**, a public wastewater utility serving the Tucson metropolitan area

Nov 2021 – Jun 2023 · 1 yr 7 mos

- Reviewed consultant design packages for wastewater collection system rehabilitation and force main improvements, checking calculations, drawings, and specifications against utility standards, and processed 12 design submittals with 100% review completion by contract deadlines.
- Built wastewater flow analysis workbooks in Microsoft Excel, organizing flow, peaking factor, and pump capacity checks for internal engineering use, and cut recurring calculation time from 6 hours to 3 hours per project review.
- Supported construction-phase coordination on pump station and pipeline projects, tracking RFIs, submittals, and site observations with contractors, inspectors, and operations personnel, and logged and closed 24 field issues without delaying scheduled startup dates.

Education

- **University of Arizona** — Bachelor of Science in Civil Engineering · 2017 – 2021

Skills

- **Hydraulic Modeling:** WaterGEMS, SewerGEMS, Hydraulic Modeling, Water Distribution Design-, Wastewater Collection Systems
- **Design & Documentation:** AutoCAD Civil 3D, Bluebeam Revu, Microsoft Excel, ArcGIS, Construction Administration

Certifications

- **Professional Engineer** – Arizona State Board of Technical Registration (2025)