

# RAFAEL ESTRADA MONCADA, EI, A.M.ASCE

(He/Him/His) | 710 Washington Street, Lincoln, NE 68502 | (402) 990-4605 | [rafaelestradamoncada@gmail.com](mailto:rafaelestradamoncada@gmail.com)

A fluent Spanish speaking construction engineer with quick and efficient communication and project review.

## EXTENSIVE EXPERIENCE

Designing and observing construction of water supply and collection, treatment systems and distribution systems in Nebraska and Iowa | Drafting NPDES applications and managing SWPPP permits for multiple Nebraska and Iowa construction projects | Certified erosion & sediment control inspector in Nebraska and Iowa | Process and enter monthly discharge monitoring data to the EPA Central Data Exchange | Management of construction projects through Appia Construction Administration Software and Bluebeam Revu.

## PROFESSIONAL EXPERIENCE

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|---|---|
| Construction Engineer at JEO Consulting Group, Inc., Lincoln, NE  | November 2020 – Present   |
| Project Engineer at JEO Consulting Group, Inc., South Sioux City, NE  | May 2016 – October 2020   |
| <ul style="list-style-type: none"><li>2019 Sioux City Water Main &amp; Tank Demolition – Sioux City, IA<br/>Provide construction administration using Appia and half-time onsite inspection for the water main improvements to an urban and rural area in Sioux City, IA. This project consists of installing 20,000 LF of 16" ductile and PVC pressure pipe to connect the Western Hills pressure zone to the Indian Hills pressure zone. The Western Hills pressure zone experiences low water pressure, and by connecting to the Indian Hills pressure zone, resident's water pressure and fire protection would increase significantly.</li><li>2017 Wastewater Treatment Facility Improvements – Dakota City, NE<br/>Provided construction administration for the improvements to Dakota City's existing wastewater treatment facility. The improvements included the construction of a new Sequencing Batch Reactor (SBR) treatment facility complete with a pump station, solids screening, grit removal, SBR basins, UV disinfection, biosolids treatment, and a lab space at a new location approximately one mile south of the city. In addition to the WWTF, one mile of 15" trunk sewer and 8" PVC pressure pipe to service the new wastewater site was also constructed.</li></ul> | <p>Contract Price: \$5,702,000</p> <p>Contract Price: \$5,300,000</p> |

## INVOLVEMENT

- |   |                         |
|---|-------------------------|
| Capitol Voices Club, Member   | December 2020 – Present |
| American Society of Civil Engineers   | November 2020 – Present |
| <ul style="list-style-type: none"><li>Corresponding Member of Society Advancing an Inclusive Culture, Member of Mentor Match, Member of ASCE Nebraska Section</li></ul> |                         |
| JEO Diversity and Inclusion Committee, Member   | October 2020 – Present  |

## EDUCATION

- |   |                      |
|---|----------------------|
| University of Nebraska Lincoln at Omaha   | Graduation: May 2016 |
| B.S. in Civil Engineering, Concentration Environmental Engineering  | GPA: 3.5             |
| <ul style="list-style-type: none"><li>Honors &amp; Activities: Chi Epsilon, Omicron Delta Kapa, Latinos in STEM, Engineering Student Advisory Board, Dean's Leaders, Papillion Area Lions Club, Habitat for Humanity of Omaha.</li><li>Internships: Undergraduate Research at Montana State University, Partners in Pollution Prevention at University of Nebraska Lincoln, Environmental Engineering Intern at JEO Consulting Group at Omaha.</li><li>Student Worker: Peer Mentor at UNO's Academic Career Development Center.</li></ul> |                      |

\*Denotes designed projects

#### **LIST OF WATER INFRASTRUCTURE CONSTRUCTION PROJECTS**

- 2020 24" DIP Water Main in N. 204<sup>th</sup> St. from Fort St. to Kansas St. for Vistancia Subdivision – MUD, NE
- 2020 Holdrege Street from 98<sup>th</sup> Street to Cessna Lane Water Main – Lincoln, NE
- 2020 Timber Creek Subdivision Improvements, Phase 1 – Milford, NE
- 2020 Rokeby Road Distribution System Improvements – Lincoln, NE
- 2020 Lancaster County RWD No. 1 Lincoln South Beltway Water Main Relocations – Lancaster County, NE
- 2020 HWY 75 – Plattsmouth to Murray Water Main Relocations Cass County RWD #1 – Cass County, NE
- 2020 Series 66 Well Improvements – Lincoln, NE
- 2019 Sioux City Water Main & Tank Demolition – Sioux City, IA
- 2018 Leeds Park Splash Pad – Sioux City, IA
- 2018 Water Treatment Plant Permanganate Improvements – Sioux City, IA
- 2017 Water Supply Improvements – Blencoe, IA
- 2017 Water Treatment Plant Improvements – Jackson, NE
- 2017 Water Improvements – Decatur, NE
- 2017 Well No. 12 Improvements – South Sioux City, NE\*
- 2017 Water System Improvements – Homer, NE
- 2017 West Side Drainage Improvements – South Sioux City, NE
- 2017 Well Replacement, Dakota City, NE
- 2017 Cone Park Splash Pad and Ice Rink – Sioux City, IA
- 2016 Raw Water Main for Well No. 11 – South Sioux City, NE
- 2015 Water System Improvements – Rosalie, NE

#### **LIST OF WATER INFRASTRUCTURE DESIGN PROJECTS**

- 2020 Water Supply Improvements, Well and Transmission Main – Syracuse, NE
- 2019 Fire Station Water Main Extension – Geneva, NE
- 2019 Emerson WTP Backwash Sewer Modification – Emerson, NE
- 2019 Water Main & Sanitary Sewer Main Relocations – Winnebago, NE
- 2019 New Well and Water Main Improvements – Alexandria, NE

#### **LIST OF WASTEWATER INFRASTRUCTURE CONSTRUCTION PROJECTS**

- 2018 Raasch Reservoir Interceptor Sewer – Norfolk, NE
- 2018 Sanitary Lift Station and Forcemain Improvements – Hancock, IA\*
- 2017 Wastewater Treatment Facility Improvements – Dakota City, NE

#### **LIST OF WASTEWATER INFRASTRUCTURE DESIGN PROJECTS**

- 2019 Sanitary Sewer Extension – Dakota City, NE

#### **LIST OF DOT PROJECTS**

- 2020 Highway 1 Water Improvements – Murray, NE
- 2019 Water Main & Sanitary Sewer Main Relocations – Jackson, NE\*

#### **LIST OF NATIONAL GUARD PROJECTS**

- 2020 Nebraska National Guard CATS Cantonment Road Repair – Ashland, NE
- 2019 Nebraska Army National Guard CATS-M WW Lagoon Alteration – Mead, NE
- 2019 Nebraska National Guard CATS-M Training Site Road 2 Repair – Mead, NE

\*Denotes designed projects

#### **LIST OF FEMA PROJECTS**

- 2020 South Wellfield Debris Removal – Lincoln, NE

#### **LIST OF PRIVATE INDUSTRY DESIGN PROJECTS**

- 2019 Sulfuric Acid Tank Foundation and Piping Design – Feed Energy Co., IA

#### **LIST OF PRIVATE INDUSTRY CONSTRUCTION PROJECTS**

- 2018 South Sioux Cogen – South Sioux City, NE