Daniel Esparza

Civil Engineer
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SUMMARY

Civil engineer with 6 years of experience in land development and municipal public works, working in Civil 3D, HydroCAD and HEC-RAS. Designed grading and storm drainage for a 220-lot subdivision that cleared county review on first submittal, and led the drainage study that removed a 40-home flood zone designation. Licensed PE in Colorado.

EXPERIENCE

Civil Engineer — Larkspur Land Development

Denver, CO · Feb 2022 – Present

- Designed grading, utility and storm drainage plans for a 220-lot residential subdivision in Civil 3D, approved by the county on first submittal.
- Ran HydroCAD models for 6 detention ponds sizing them to a 100-year storm, cutting downstream peak flow by 35%.
- Coordinated with 3 utility companies and the county to resolve a water main conflict, avoiding a 6-week schedule slip on a 40-acre site.
- Reviewed contractor RFIs and submittals for 2 active sites, closing 90% within 5 business days to keep grading crews moving.

Staff Engineer — City of Brookhaven Public Works

Brookhaven, CO · Jul 2019 – Jan 2022

- Led a drainage study on 400 acres using HEC-RAS that removed the FEMA flood zone designation from 40 homes.
- Designed a 1,200-foot road reconstruction and ADA ramp upgrade, inspected weekly through 4 months of construction.
- Reviewed 35 private development plans a year for compliance with city stormwater and street standards.

SKILLS

Design: AutoCAD Civil 3D, HydroCAD, HEC-RAS, HEC-HMS, StormCAD

Standards: AASHTO, local stormwater and subdivision codes, ADA, FEMA floodplain rules

Construction support: RFI and submittal review, site inspections, grading plan QA/QC

Other: Microsoft Project, ArcGIS (basic), Bluebeam

CERTIFICATIONS

Professional Engineer (PE), Colorado, 2021

EIT, 2019

EDUCATION

B.S. Civil Engineering, Colorado State University, 2019

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