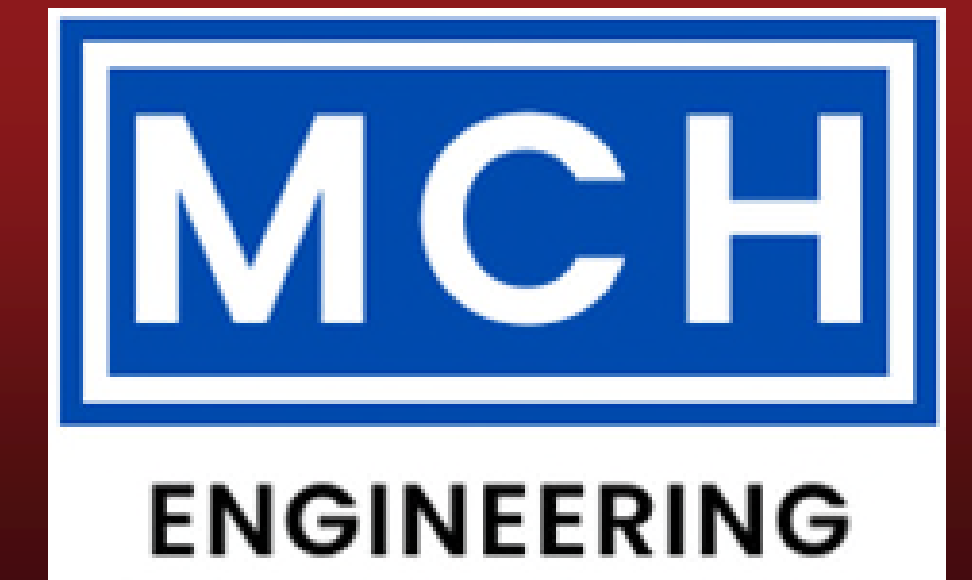




# Cypress Cove Estates

Colby Joiner – PM, Meredith Deal, Seth Calareso, Mattie Rooks, Bowden Howell



## Abstract

Cypress Cove Estates is a subdivision as part of a site development project

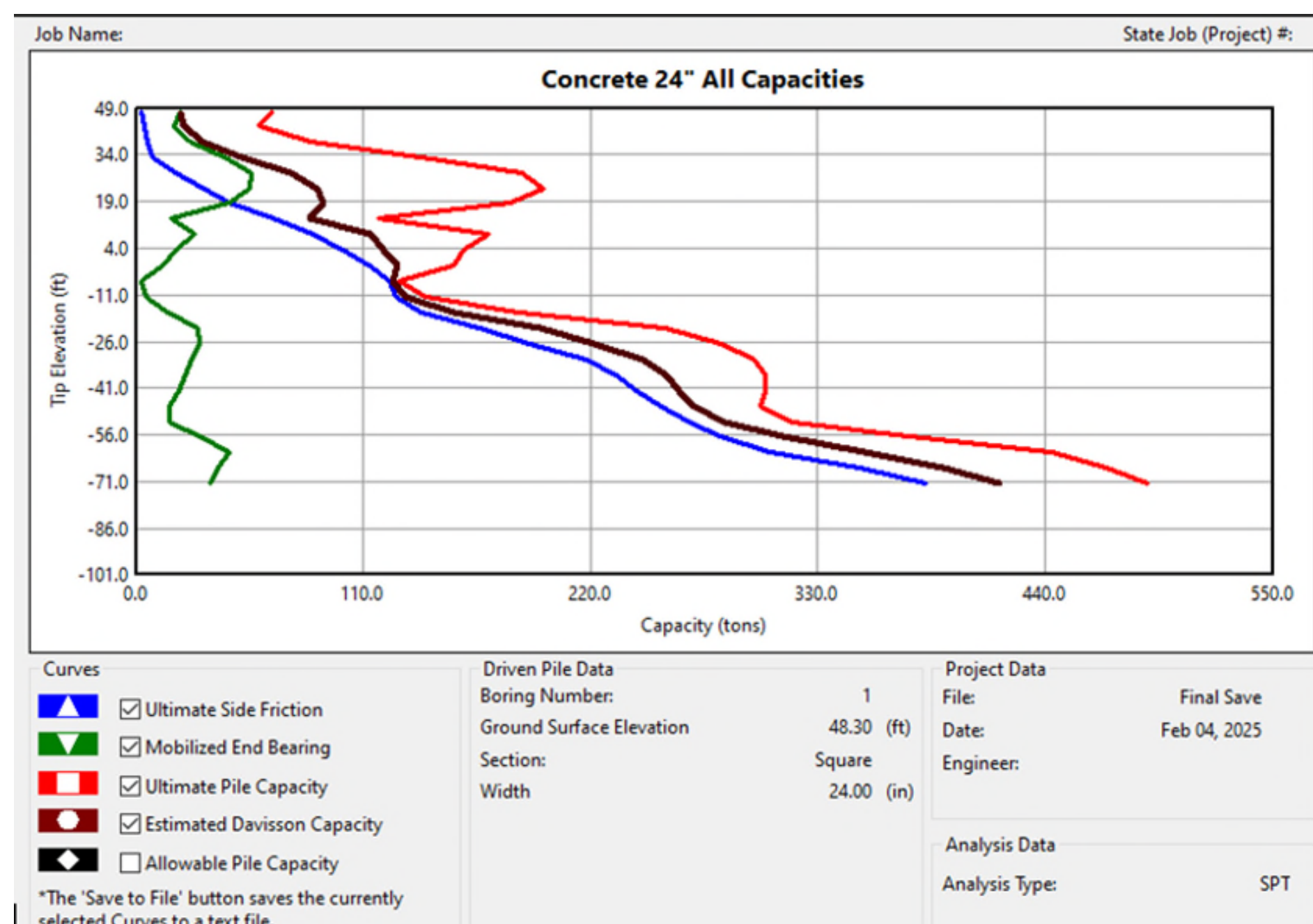
## Site

The site is located south of Wewahitchka Fl, along SR 71



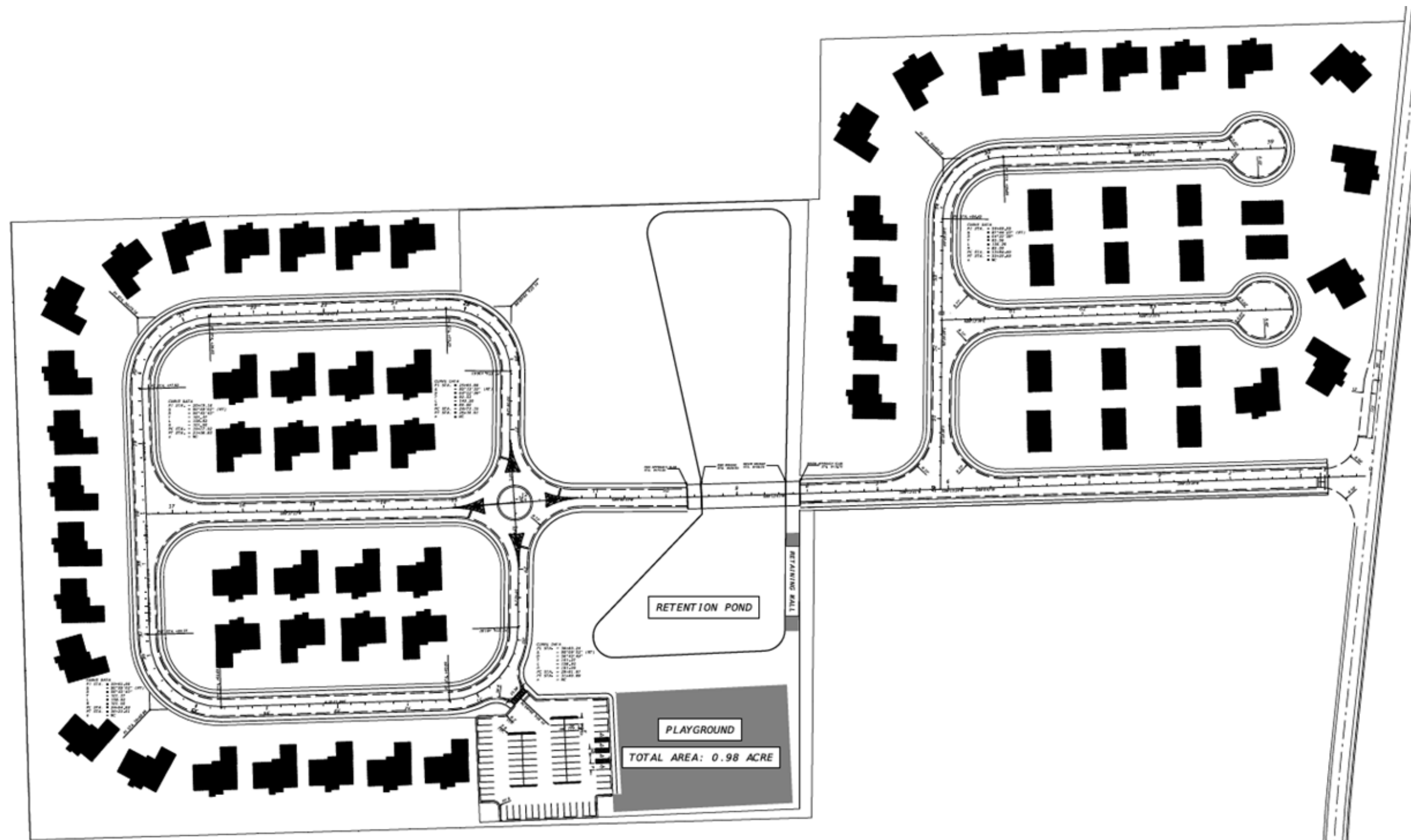
## Geotechnical

- Subsurface investigation and analysis
- Retaining wall design
- Evaluation of soil bearing capacity for CMU stem wall foundation
- Pile capacity analysis using FB Deep



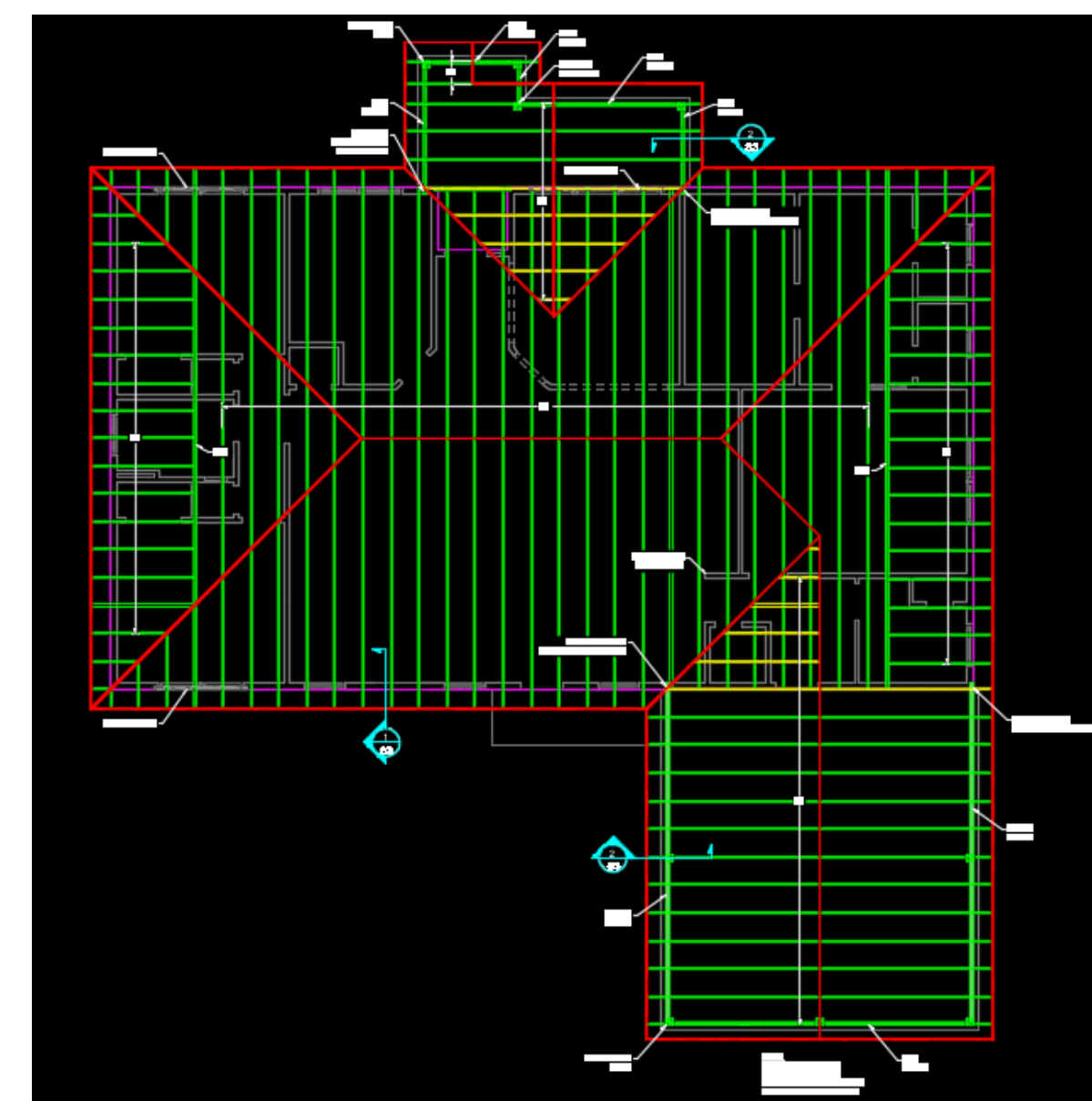
## Transportation

- Turn lane Analysis
- Design of roadway profile
- Roundabout design
- Curve design
- Parking lot design
- Pavement design



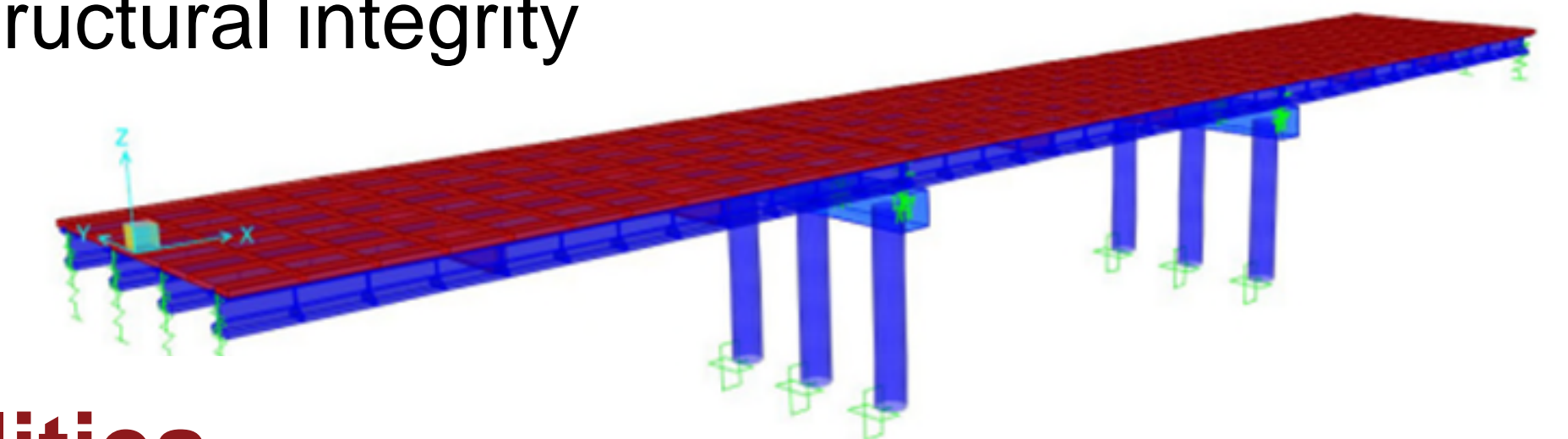
## Structural

- Determining proper connections for framing members
- Design of structural plans for permitting and construction
- Design of structural members
- Wind design per ASCE 7-22 criteria
- Analysis of structural design during high wind events such as hurricanes



## Bridge

- Determination of dead and live loads
- Analysis to ensure structural integrity
- Superstructure type selection
- Pile cap design



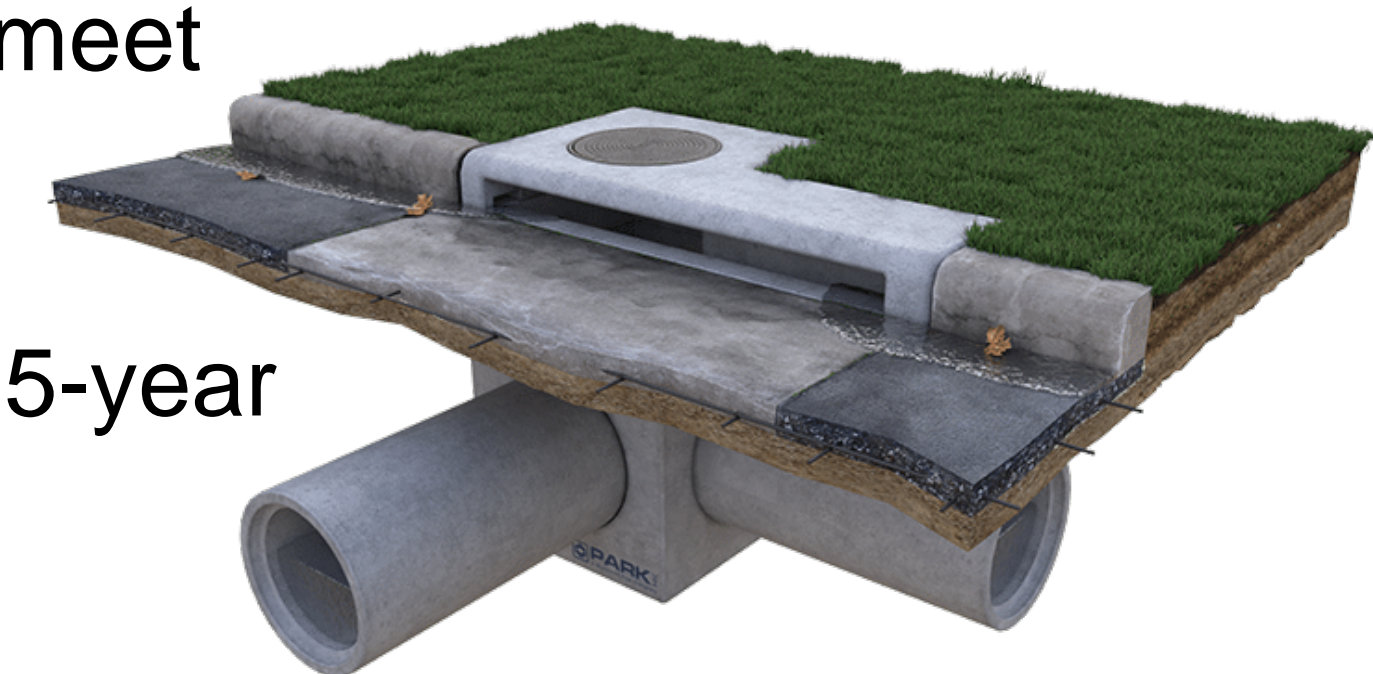
## Utilities

- Gravity sewer service to each lot
- Gravity and Grinder Station Services
- Calculations to ensure the flow meets code
- Lift Station & Force Main Design



## Stormwater Management

- SWMF design to meet regulations
- Storm Water Conveyance for 25-year storm.
- Wet Pond Design
- FDOT Type 2 Inlets and Type F Curb and Gutter
- Inlet Flow Calculations



## Acknowledgements

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