

F. EXAMPLE PROJECTS WHICH BEST ILLUSTRATE PROPOSED TEAM'S QUALIFICATIONS FOR THIS CONTRACT

(Present as many projects as requested by the agency, or 10 projects, if not specified. Complete one Section F for each project.)

20. EXAMPLE PROJECT KEY NUMBER

21. TITLE AND LOCATION (*City and State*)

**VDOT Hampton Roads Bridge-Tunnel Expansion Project
(Project No. 0064-M06-032)
Norfolk & Hampton, Virginia**

22. YEAR COMPLETED

PROFESSIONAL SERVICES
Ongoing

CONSTRUCTION (*if applicable*)
Est. 2025

23. PROJECT OWNER'S INFORMATION

a. PROJECT OWNER

VDOT

b. POINT OF CONTACT NAME

James S. Utterback, PMP

c. POINT OF CONTACT TELEPHONE NUMBER

757-858-6776

James.Utterback@VDOT.viginia.gov

24. BRIEF DESCRIPTION OF PROJECT AND RELEVANCE TO THIS CONTRACT (*Include scope, size and cost*)

Civil Engineering Project Manager for the septic field, pumping stations, treatment systems, and force main design for the \$3.3 B VDOT HRBT tunnel/roadway expansion project in Hampton and Norfolk on the state-owned public North and South islands for HRCF (Hampton Roads Connector Partners). Developed final designs of sanitary systems for coordination with all civil systems-drinking water, fire-fighting water, and storm drainage systems. Coordinated with AOSE (Authorized Onsite Soil Evaluator) in the preliminary and final septic design, based on actual soil testing and soil specifications for the fill portions of the islands, where the islands are being expanded for added roadways and tunnel. Completed all project sanitary specifications, VDH (Virginia Department of Health) applications, and addressed VDOT, VDH and HRCF comments on plans and design reports until approved.

PROJECT RELEVANCE

X	Development of full designs
X	Design analysis & construction phase services
X	Engineering Studies
X	Investigations
X	Surveying
X	Subsurface Investigations
X	Tunnel / Roadway Project
X	Utility Design
X	Specifications

PROJECT HIGHLIGHTS

- \$3.3 Billion project
- Largest roadway project in VA history
- Septic Field Design
- Pumping Systems
- Force main design
- Treatment Systems
- Specifications



Calculations included spreadsheets for pump station and forcemain design. Buoyancy calculations were also performed for all pump station basins, septic tanks and treatment tanks.

Innovative pump station design was employed to allow for rest rooms for the proposed inspection booths allowing VDOT employees to be more productive.

Septic design utilized latest technology featuring ultraviolet treatment of sewage meeting all Virginia Department of Health TL2 and TL3 treatment requirements.

Prepared full specifications of septic system components per VDOT Road and Bridge standards.

Project to also include construction management phase services to include inspections, testing and certification of the 5 septic field systems being installed.

CONSTRUCTION COST: \$3.3 B

PERIOD OF PERFORMANCE: Month 2019 - Ongoing

25. FIRMS FROM SECTION C INVOLVED WITH THIS PROJECT

a.	(1) FIRM NAME Pinnacle Group Engineering, Inc.	(2) FIRM LOCATION (<i>City and State</i>) Chesapeake, Virginia	(3) ROLE Civil Engineering & Septic Lead
b.	(1) FIRM NAME LRH Soil Consultants, Inc.	(2) FIRM LOCATION (<i>City and State</i>) Virginia Beach, Virginia	(3) ROLE Authorized Onsite Soil Evaluator