

TYNDALL AFB
HURRICANE MICHAEL
REBUILD

Turner

INDUSTRY DAY
SEPTEMBER 2019

Turner Construction Company

PROJECT CHALLENGES

Location Logistics

Base Logistics

Area Infrastructure

National Labor Shortage

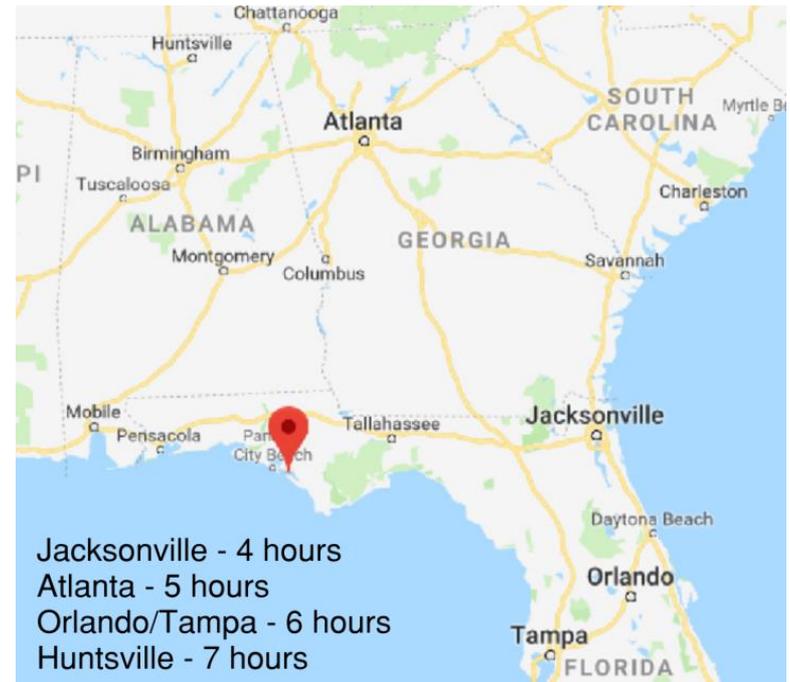
**Operational Need & Speed
of Delivery**

LOCATION LOGISTICS

Challenges

Located on the panhandle of Florida presents several obstacles in planning execution of a large, complex project

- Distance from major cities
- Logistics of material & equipment deliveries
- Off of major transportation routes



LOCATION LOGISTICS

Options

With creative thought and collaboration with government alternative methods of getting people and equipment to the base can be developed

- Trucking – work with local government to develop plan to enhance major routes
- Rail or waterways
- Coordinate deliveries/shipping companies with multiple prime contractors and subcontractors to facilitate more efficient delivery schedules
- Prefabricate and/or utilize modular construction. On-site batch plants and/or fabrication shops



BASE LOGISTICS

Challenges

Multiple, concurrent major construction activities occurring at the same time while maintaining base operations

- Construction traffic could overwhelm existing gates creating considerable congestion at peak hours
- Roadways and parking within base perimeter could become constricted
- Public roadways/bridges adjacent to the base could experience significantly increased traffic flow
- Construction deliveries vs Base deliveries
- Security ingress/egress



BASE LOGISTICS

Options

Coordination between Prime Contractors, Federal Government, State & Local Government

- Develop plan with local officials to improve, or create detours from, local roadways
- Divert Route 98 so it no longer cleaves the base into halves
- Isolate construction zones with separate, direct entrances from main thoroughfares to maintain separation from base activities
- Create alternate personnel and delivery gate access points



AREA INFRASTRUCTURE

Challenges

Area infrastructure sustained significant damage as a result of the hurricane and is slow to recover

- Housing for the large amount of trade labor
- Food service
- Groceries, gas stations, miscellaneous amenities

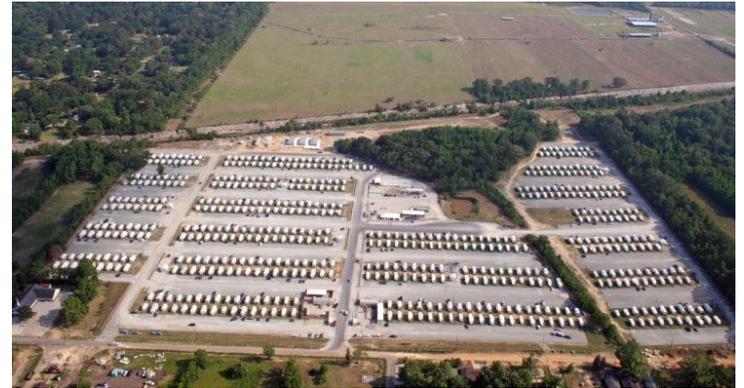


AREA INFRASTRUCTURE

Options

Tyndall rebuild could provide catalyst for enhanced local rebuild efforts

- Work with government and developers to develop lodging development plans prior to commencement of rebuild efforts. Lodging could be repurposed at end of rebuild
- Accelerate construction of barracks and base housing to utilize as temporary lodging
- Utilize space on base to develop RV / modular housing camps



NATIONAL LABOR SHORTAGE

Challenges

Trade labor shortages are affecting price, performance and schedule on projects nationwide

- The backlog of commercial work is driving contractors away from public projects
- Trade labor is aging out and younger members of the workforce are not pursuing skilled labor employment
- Large, local projects make remote projects less attractive



NATIONAL LABOR SHORTAGE

Options

There needs to be a compelling reason for subcontractors and labor to want to work on these projects

- Enhanced wage rates, above Davis Bacon
- Housing subsidies
- Reduced cost/free food and amenities
- Ability to bring/stay connected with family and community



OPERATIONAL NEED & SPEED OF DELIVERY

Challenges

Operational readiness deadlines are driving the need to complete many of the base facilities in an accelerated timeline

- All of the previously discussed challenges play into the ability to deliver
- Operational readiness deadlines are not flexible
- Accelerated production drives the need for significantly more contractor involvement



OPERATIONAL NEED & SPEED OF DELIVERY

Options

With collaboration and participation from all stakeholders, an achievable execution plan can be developed

- Develop executive level and project level partnering teams that meet on a regular basis
- Develop “board of directors” that includes all prime contractors and relevant DoD stakeholders so program wide collaboration occurs
- Develop critical path schedule at a program level
- Assure quick resolution to unforeseen challenges



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QUESTIONS?