CT-03 History

- 30-year master plan was completed in 2017
  - Cruise
  - Cargo
  - Spaceport
  - Commercial fishing
  - Parks & recreation
  - Marine recreation
  - Commercial development

- Goal was to plan for the forecast of increased passengers over a 30-year horizon

- CT-03 is the first of the new cruise terminals from this 30-year masterplan
CT-03 Challenges

- Port funded Project
- Largest project in the CPA’s 65-year history
- Tight site for the intended program
- High expectations from the Cruise Lines
- Current trend is to craft a dynamic landside experience
- Accommodate 6,500 passengers / same processing time
- Keeping a “Vison” in budget
CT-03 Challenges

- Challenging Soils
- Very limited laydown space for construction
- Ship that is arriving on a specific date
- 2 GC's working side by side (waterside versus landside)
- Adjacent functions that cannot be impacted by construction
- “Hot” Construction market
New Adventures
New Horizons
New Wonders
New Memories
Exploration
Port Canaveral’s role in the space program will grow

We wanted the opportunity to Introduce millions of passengers to this unique relationship at Port Canaveral
CT-03 Project Overview

- 157,000 s.f. 2 story Cruise Terminal Building
- 14,200 s.f. passenger boarding bridge
- 5 level Parking Garage (1,800 cars)
- Dedicated employee parking lot (215 cars)
- 14,500 s.f. Embark Bag and Crew Building
- 6,600 s.f. Provisioning Warehouse Building
- Underground drainage & roadway improvements on GKB

- 1,300’ long working apron (by others)
- (2) two mobile gangways (by others)

- Project will be completed May 2020
- Home Port for Carnival’s newest XL ship, Mardi Gras
- Carnival’s Largest Cruise Ship 6,500 passengers
Ground Transportation
With Parking Garage Above
1,800 spaces
5 Levels above
Project Total
2,015 space

Bag Drop
Working Apron
Terminal
Service Yard Provisioning
Main Entry
Employee Surface Parking
215 space
5 level parking garage above GTA
Embark bag and Crew building
2 Story Terminal & boarding bridge
Main Entry “Launch Pad”
GTA for 30 Buses and separate POV Area
Employee parking
Service / provisioning building / yard
Boat Ramp parking and overflow
CT-03 Metrics

- 187,000 s.f. facility
- 6,500 passenger processing capacity
- 10,000 bag laydown capacity
- Full CBP primary and secondary passenger processing facility with capacity for facial recognition
- No roof-top equipment
- 48 “M-Bark” stations with 20 kiosks + 10 cash counters
- 12 embark X-ray machines
- 10 photo-booths
- Seating for 1,700 passengers
CT-03 Metrics

- 82,000 SY of asphalt
- Widening of George King Blvd 14’ to accommodate queuing & turn lanes.
- 70+ storm drainage structures.
- 600+ large underground stormwater storage vaults for stormwater treatment for surface area to be developed for parking.
- New signalization.
- Potable water modeling for CT and ancillary buildings and supply cruise ship.
- Two new sewage lift stations and re-routing force mains.
CT-03 Metrics

TERMINAL

- Precast concrete piles with concrete pile cap supported foundation
- Concrete tiltwall exterior bearing walls and lateral resisting system
- First floor slab: varies from 6”, 8” & 12” slab on grade supported by precast concrete piles.
- Second floor slab: wide flange columns with structural steel wide flange beam framing under lightweight concrete slab.
- Roof Level: structural steel wide flange girder with bar joists under metal roof deck
CT-03 Metrics

LAUNCH PAD

- Precast concrete piles with concrete pile cap supported foundation
- Structural steel wide flange columns with diagonal cross-braced frames supporting lateral resisting system.
- First floor slab: slab on grade.
- Second floor slab: structural steel wide flange beam framing under composite lightweight concrete slab.
- Roof Level: structural steel cellular wide flange girders with bar joists under metal roof deck.
- Steel rod horizontal x-bracing for lateral resisting system
CT-03 Metrics

- 4000A electrical service entrance and power distribution for the entire facility.

- 2MW diesel generator for backup power. The entire campus (all 4 buildings) is fully backed up.

- LED energy efficient lighting and lighting controls through the building management system.

- Lightning protection system for the entire facility.
CT-03 Metrics

- 4-zone wet pipe fire suppression system
- Variable speed air handlers & fabric duct work
- 600-Ton chiller plant with ice storage
CT-03 Metrics

- Total of 18,000 feet (3.4 miles) of fiber.
  - 7,000’ of Single Mode Fiber.
  - 7,000’ of Multi Mode Plenum rated fiber
  - 4,000’ of Single Mode Plenum rated fiber

- Total of 269,000 feet (51 miles) of Category 6a network cable
  - 260,000’ of Cat 6a Plenum of various colors depending on the user/use (Blue, Gray, White, Red, & Yellow).
  - 9,000’ feet of Cat 6a for the Under-Ground & Exterior locations on the site.
CT-03 Metrics

- 1,458 network jacks
- 286 Access points for high density WiFi coverage for two independent networks.
- Dual-use building-wide distributed antenna system.
- Three separate and secured networks run in parallel.
- 208 Cameras in the Terminal
- 89 access Controlled doors – Customs and Canaveral Port Authority systems
CT-03 Project

- There was extensive collaboration between all parties:
  - Port
  - Carnival Cruise Lines
  - CBP
  - Grounds crew
  - Design team
  - Construction teams

- Project in collaboration with the contractor went thru a VE process to reduce cost without quality.

- Project is full speed under construction.

- On schedule for May 2020 completion.
Thank You