

Material Transfer & Staging Area Vehicular Access to Work Areas Proposed Seating Enclave CALE FEE Existing Boardwalk **Observation Tower & Access** Existing Trail Proposed Berm Cut #12 Proposed Boardwalk at Berm Cut #1 Proposed Boardwalk at Berm Cut #2 Proposed Berm Cut #3-Existing Trail Proposed -Berm Cut #5 Berm Cut #4 Existing Trail



Office: 239-334-6870 Fax: 239-334-7810 MARINE and ENVIRONMENTAL CONSULTANTS

DRAFTER:

DATUM: NAVD

SHEET: 1 of 7







SECTION: 26 TOWNSHIP: 43 S RANGE: 25 E

| CONNECTION SCHEDULE     |              |     |         |             |                 |  |
|-------------------------|--------------|-----|---------|-------------|-----------------|--|
| MARK                    | MANUFACTURER | NO. | TYPE    | UPLIFT CAP. | NOTES/FASTENERS |  |
|                         |              |     |         |             |                 |  |
| $\bigcirc$              | SIMPSON      |     | LS70    | 560         | 10 - 10D NAILS  |  |
| 0                       | SIMPSON      |     | H16S    | 1470        | 10 - 10D NAILS  |  |
| 3                       | SIMPSON      |     | HCP1.81 | 605         | 6 - 10D NAILS   |  |
| $\overline{\mathbf{A}}$ | SIMAPSONI    |     | HPC22   | 180         | A TOD NAUS      |  |

Note: If any of the connectors shown are not obtainable, it is acceptable that an equal connector is used and the engineer is notified of the change



# Denotes typical connector for similar situations unless otherwise noted

### **Observation Tower Roof Plan View**

SCALE: 1'' = 5'

DESIGN WIND SPEED 160 MPH (3 SEC GUST) BASIC WIND SPEED WIND IMPORTANCE FACTOR WIND EXPOSURE ADJUSTMENT FACTOR COMPONENTS AND CLADDING EDGE ROOF + 16.0 PSF / -53.3 PSF CORNER ROOF + 16.0 / -53.3 PSF

Notes: 1. This drawing does not intend to show truss quantities

2 General contractor is responsible for all temporary bracing

3 If truss uplift conditions exceed strapping specifications, the contractor must notify the designer prior to installation of the trusses

4. Trusses are designed to meet all load interaction, uplift, and lateral load requirements along with the information provided on this drawing

5. Contractor to coordinate all temporary bracing with H1B 91 specs

6. Provide grade 2 lumber for ratters

2" x 10" PT wood ridge board 2" x 8" PT wood common rafter @ 16" on center

2" x 4" PT wood purlins @ 16" on center







April 16, 2024 12:50:46 p.m. Drawing: LEE33MASTER.DWG

1938 Hill Avenue, Fort Myers, Florida 33901 Office: 239-334-6870 Fax: 239-334-7810 MARINE and ENVIRONMENTAL CONSULTANTS

DATE: 6-1-24 SCALE: Varies DRAFTER: SHEET: 4 of 7 DATUM: NAVD



Prior to any work or other berm cut preparation silt fencing is to be installed along both sides of the berm depression terminating onto the top of berm at both ends of the cut. Fencing to be removed once the berm cuts and boardwalks have been deemed complete.

| <i>J</i> |  |
|----------|--|
|          |  |
| 200      |  |
| 2000     |  |





recommendations TYPE III SILT FENCE

specifications and FDEP

Filter Fabric

SECTION



Typical Backfill at Berm Cut (typical double culvert.) SCALE: 1" = 10'

Typical Longitudinal Section J-J of Backfill at Berm Cut

SCALE: 1" = 10' horizontal / 1" = 5' vertical

1938 Hill Avenue, Fort Myers, Florida 33901 DATE: 6-1-24 Office: 239-334-6870 Fax: 239-334-7810 MARINE and ENVIRONMENTAL CONSULTANTS DRAFTER: DATUM: NAVD

SCALE: Varies

SHEET: 5 of 7





## Berm Cut #5 Detail

| Proposed 18" RCP's placed at the low<br>point in the berm cut   | low point = 1.4' NAVD<br>(Varies with each berm cu | (†)                                   | - Proposed stabilized fill placed 18"<br>above the low point of each berm cut. |
|---|--|---------------------------------------|--|
|   |  |                                       |  |
| , <u>M</u> HŴ @ 0.17' NAVD , <u></u> , <u>_</u> , <u></u> |  | / / / / / / / / / / / / / / / / / / / | · / / / / / / / / / / / / / / / / / / /  |
|   |  | 11111                                 |  |
| //////////////////////////////////////  | 1'' - 30' / Vartical 1'' - 15'                     | 1111                                  |  |
|   | T = 50 / Vertical T = T5                           | /////                                 |  |

## 5L-5L Berm Cut #5 with RCP's and Backfill





SECTION: 26 TOWNSHIP: 43 S RANGE: 25 E



| Proposed Culvert Pipes with Fill @ Berm Cut |       |      |         |  |  |  |  |  |
|---|-------|------|---------|--|--|--|--|--|
| #8 - #12                                    |       |      |         |  |  |  |  |  |
| Low Point Elevations Fill Footprint         |       |      |         |  |  |  |  |  |
| (NAVE                                       | 7)    | SF   | CY Fill |  |  |  |  |  |
|   |       |      |         |  |  |  |  |  |
| #8  | =3.1' | 3596 | 188     |  |  |  |  |  |
| #9  | =1.4' | 1317 | 77      |  |  |  |  |  |
| #10   | =1.0' | 1000 | 65      |  |  |  |  |  |
| #11   | =1.2' | 1833 | 112     |  |  |  |  |  |
| #12   | =0.9' | 1185 | 74      |  |  |  |  |  |
|   |       |      |         |  |  |  |  |  |
| Total Fill Footprint 8,931sf                |       |      |         |  |  |  |  |  |

Total Fill-516cy

Prior to any work or other site preparation silt fencing is to be installed along both sides of the berm depression terminating onto the top of berm at both ends of the berm depression. Silt fencing is to remain in place until all construction is complete.

The final widening of the Caloosahatchee's IntraCoastal Waterway done in the 1960's created the perimeter trail around CCP 18. The berm was built to contain the sediment created from hydraulic dredging of the ICW. The material was pumped into the the dredged material management area *CCP18* from the south side and allowed to spread out to the north. When the dredging was completed the sediment was left to stabilize in place, remaining mostly undisturbed from the next four decades. Same as the deposition, running south to north so today is the slope across the entire CCP 18. Today it is evident by the low points in the trail, the vegetation, and observation of surface flow that most all of the rainwater leaves the unit through the north east corner, more specifically cuts 1 and 2, with an occasional discharge through cut #3. Cuts #1 and #2 discharge into the ditch running along the north edge of the unit. there is a ditch.









Lee County Aerial 2021



