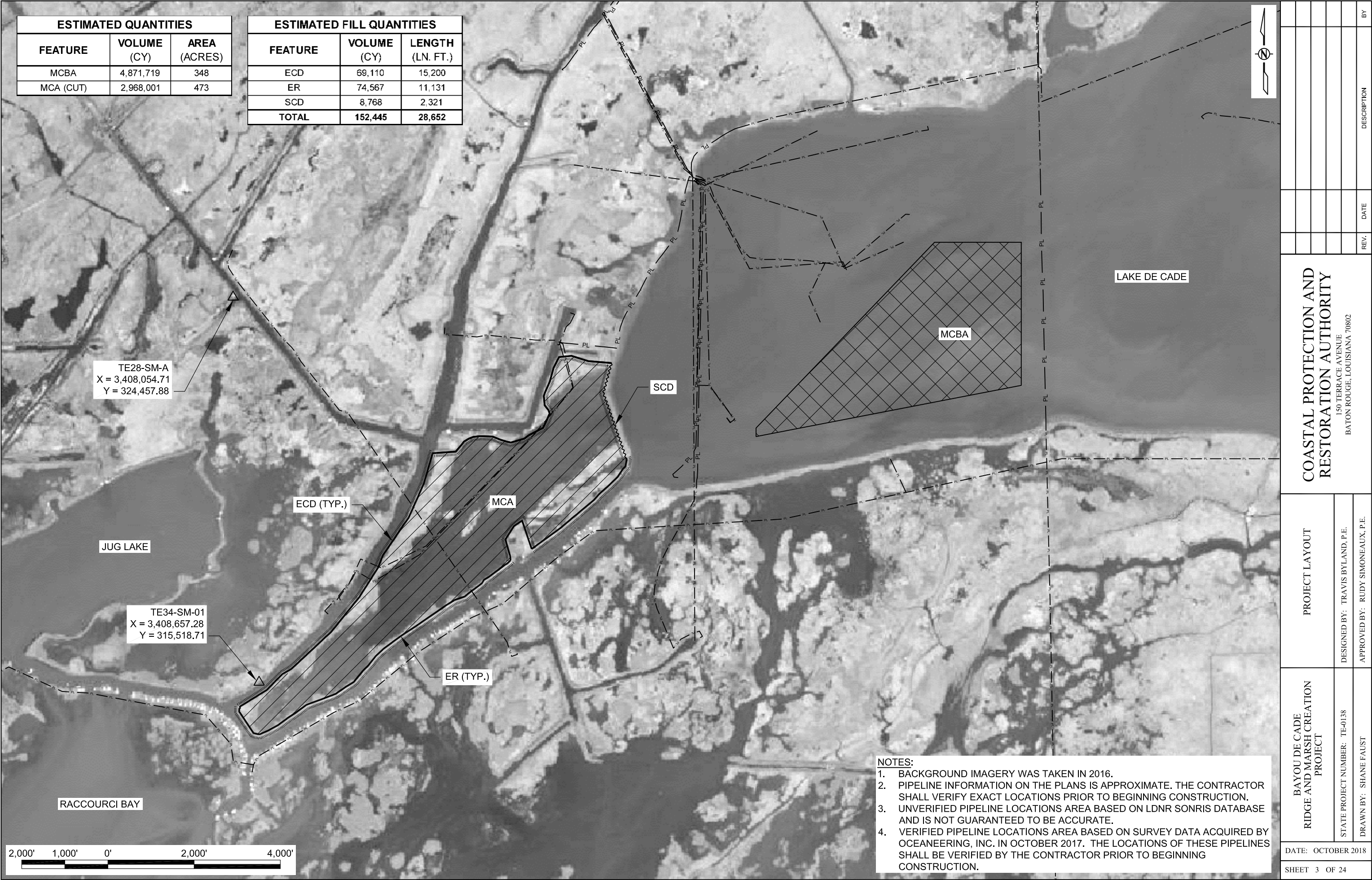






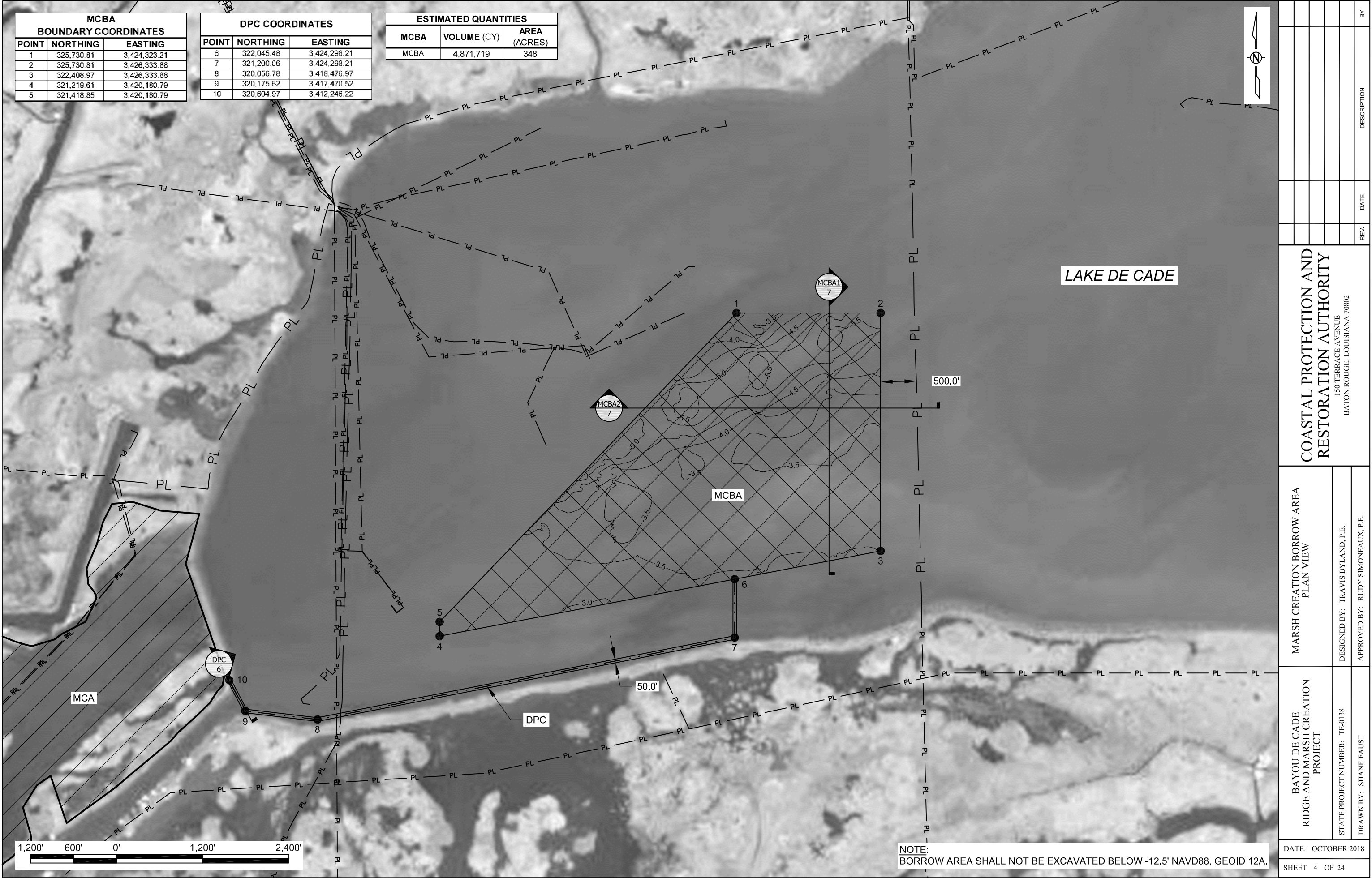


| ESTIMATED QUANTITIES |             |              |
|----------------------|-------------|--------------|
| FEATURE              | VOLUME (CY) | AREA (ACRES) |
| MCBA                 | 4,871,719   | 348          |
| MCA (CUT)            | 2,968,001   | 473          |

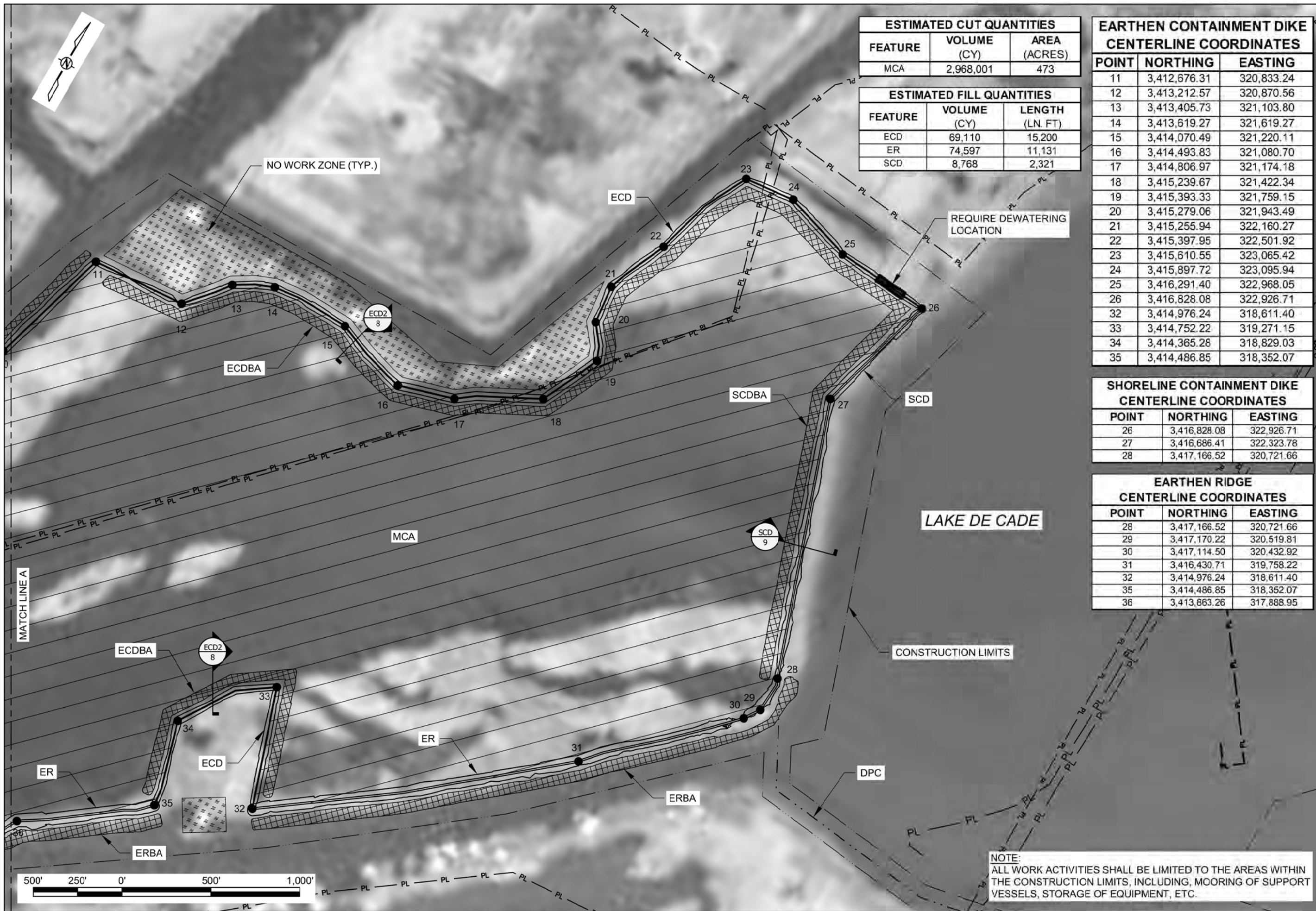
| ESTIMATED FILL QUANTITIES |             |                  |
|---------------------------|-------------|------------------|
| FEATURE                   | VOLUME (CY) | LENGTH (LN. FT.) |
| ECD                       | 69,110      | 15,200           |
| ER                        | 74,567      | 11,131           |
| SCD                       | 8,768       | 2,321            |
| TOTAL                     | 152,445     | 28,652           |

- NOTES:
1. BACKGROUND IMAGERY WAS TAKEN IN 2016.
  2. PIPELINE INFORMATION ON THE PLANS IS APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS PRIOR TO BEGINNING CONSTRUCTION.
  3. UNVERIFIED PIPELINE LOCATIONS AREA BASED ON LDNR SONRIS DATABASE AND IS NOT GUARANTEED TO BE ACCURATE.
  4. VERIFIED PIPELINE LOCATIONS AREA BASED ON SURVEY DATA ACQUIRED BY OCEANEERING, INC. IN OCTOBER 2017. THE LOCATIONS OF THESE PIPELINES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING CONSTRUCTION.

|                                                      |  |                |                                                                                                       |      |             |    |                                   |  |  |  |
|------------------------------------------------------|--|----------------|-------------------------------------------------------------------------------------------------------|------|-------------|----|-----------------------------------|--|--|--|
| BAYOU DE CADE<br>RIDGE AND MARSH CREATION<br>PROJECT |  | PROJECT LAYOUT | COASTAL PROTECTION AND<br>RESTORATION AUTHORITY<br>150 TERRACE AVENUE<br>BATON ROUGE, LOUISIANA 70802 |      |             |    |                                   |  |  |  |
| STATE PROJECT NUMBER: TE-0138                        |  |                |                                                                                                       |      |             |    | DESIGNED BY: TRAVIS BYLAND, P.E.  |  |  |  |
| DRAWN BY: SHANE FAUST                                |  |                |                                                                                                       |      |             |    | APPROVED BY: RUDY SIMONEAUX, P.E. |  |  |  |
| DATE: OCTOBER 2018                                   |  |                | REV.                                                                                                  | DATE | DESCRIPTION | BY |                                   |  |  |  |
| SHEET 3 OF 24                                        |  |                |                                                                                                       |      |             |    |                                   |  |  |  |







| ESTIMATED CUT QUANTITIES |             |              |
|--------------------------|-------------|--------------|
| FEATURE                  | VOLUME (CY) | AREA (ACRES) |
| MCA                      | 2,968,001   | 473          |

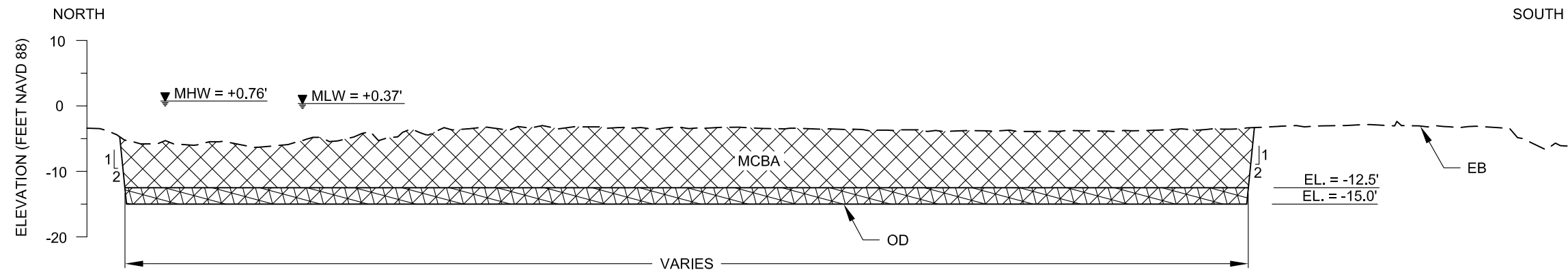
| ESTIMATED FILL QUANTITIES |             |                 |
|---------------------------|-------------|-----------------|
| FEATURE                   | VOLUME (CY) | LENGTH (LN. FT) |
| ECD                       | 69,110      | 15,200          |
| ER                        | 74,597      | 11,131          |
| SCD                       | 8,768       | 2,321           |

| EARTHEN CONTAINMENT DIKE CENTERLINE COORDINATES |              |            |
|-------------------------------------------------|--------------|------------|
| POINT                                           | NORTHING     | EASTING    |
| 11                                              | 3,412,676.31 | 320,833.24 |
| 12                                              | 3,413,212.57 | 320,870.56 |
| 13                                              | 3,413,405.73 | 321,103.80 |
| 14                                              | 3,413,619.27 | 321,619.27 |
| 15                                              | 3,414,070.49 | 321,220.11 |
| 16                                              | 3,414,493.83 | 321,080.70 |
| 17                                              | 3,414,806.97 | 321,174.18 |
| 18                                              | 3,415,239.67 | 321,422.34 |
| 19                                              | 3,415,393.33 | 321,759.15 |
| 20                                              | 3,415,279.06 | 321,943.49 |
| 21                                              | 3,415,255.94 | 322,160.27 |
| 22                                              | 3,415,397.95 | 322,501.92 |
| 23                                              | 3,415,610.55 | 323,065.42 |
| 24                                              | 3,415,897.72 | 323,095.94 |
| 25                                              | 3,416,291.40 | 322,968.05 |
| 26                                              | 3,416,828.08 | 322,926.71 |
| 32                                              | 3,414,976.24 | 318,611.40 |
| 33                                              | 3,414,752.22 | 319,271.15 |
| 34                                              | 3,414,365.28 | 318,829.03 |
| 35                                              | 3,414,486.85 | 318,352.07 |

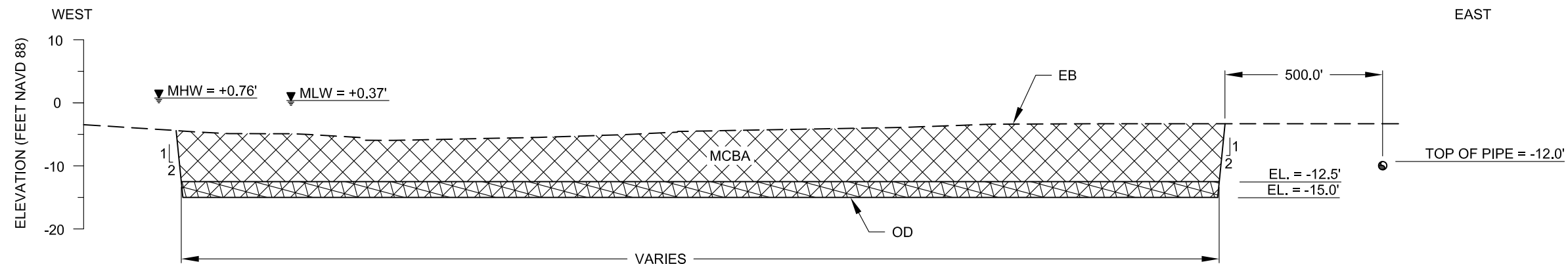
| SHORELINE CONTAINMENT DIKE CENTERLINE COORDINATES |              |            |
|---------------------------------------------------|--------------|------------|
| POINT                                             | NORTHING     | EASTING    |
| 26                                                | 3,416,828.08 | 322,926.71 |
| 27                                                | 3,416,686.41 | 322,323.78 |
| 28                                                | 3,417,166.52 | 320,721.66 |

| EARTHEN RIDGE CENTERLINE COORDINATES |              |            |
|--------------------------------------|--------------|------------|
| POINT                                | NORTHING     | EASTING    |
| 28                                   | 3,417,166.52 | 320,721.66 |
| 29                                   | 3,417,170.22 | 320,519.81 |
| 30                                   | 3,417,114.50 | 320,432.92 |
| 31                                   | 3,416,430.71 | 319,758.22 |
| 32                                   | 3,414,976.24 | 318,611.40 |
| 35                                   | 3,414,486.85 | 318,352.07 |
| 36                                   | 3,413,863.26 | 317,888.95 |

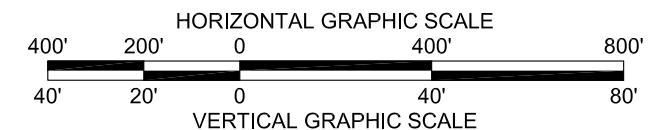
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|----------------------------------------------------------------------------------------------------|------------------------------------------------------|-----------------------------------|--------------------|-----|----|
| COASTAL PROTECTION AND RESTORATION AUTHORITY<br>150 TERRACE AVENUE<br>BATON ROUGE, LOUISIANA 70802 |                                                      | DESCRIPTION                       | DATE               | REV | BY |
| MARSH CREATION AREA<br>PLAN VIEW                                                                   | BAYOU DE CADE<br>RIDGE AND MARSH CREATION<br>PROJECT | DESIGNED BY: TRAVIS BYLAND, P.E.  | DATE: OCTOBER 2018 |     |    |
|                                                                                                    |                                                      | APPROVED BY: RUDY SIMONEAUX, P.E. | SHEET 6 OF 24      |     |    |



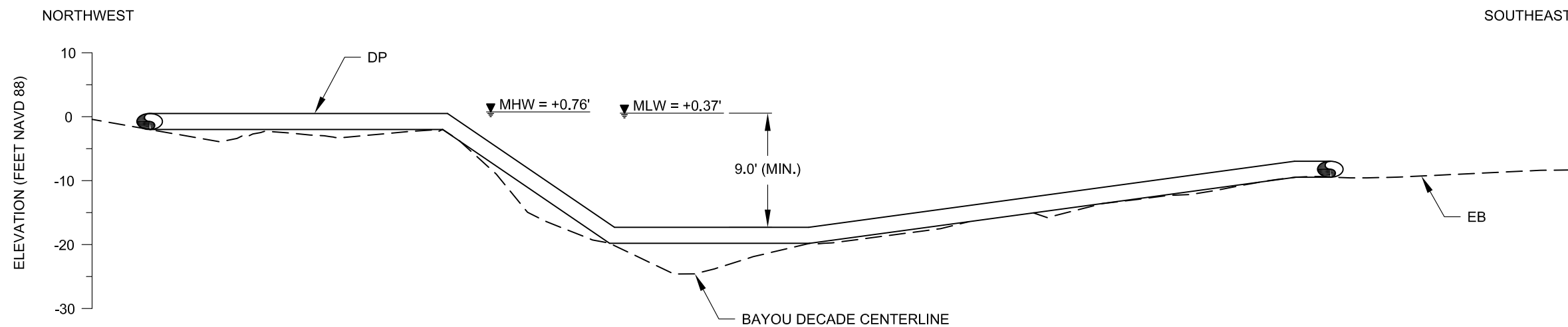
MCBA1  
4  
MARSH CREATION BORROW AREA  
TYPICAL SECTION



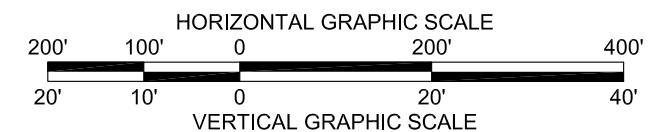
MCBA2  
4  
MARSH CREATION BORROW AREA  
TYPICAL SECTION



| AVAILABLE BORROW QUANTITY |             |              |
|---------------------------|-------------|--------------|
| FEATURE                   | VOLUME (CY) | AREA (ACRES) |
| MCBA                      | 4,871,719   | 348          |



DPC  
4  
DREDGE PIPELINE CORRIDOR  
TYPICAL SECTION



NOTES:

- EXCAVATION WITHIN THE BORROW AREA SHALL BE LIMITED TO THE LINES AND GRADES SHOWN.
- ANCHORAGE OF THE DREDGE EQUIPMENT SHALL BE LIMITED TO THE AREA WITHIN THE CONSTRUCTION LIMITS.
- AVAILABLE BORROW QUANTITY BASED ON EXCAVATION TO -12.5 FEET.

COASTAL PROTECTION AND  
RESTORATION AUTHORITY

150 TERRACE AVENUE  
BATON ROUGE, LOUISIANA 70802

MARSH CREATION BORROW AREA  
AND DREDGE PIPELINE CORRIDOR  
TYPICAL SECTIONS

DESIGNED BY: TRAVIS BYLAND, P.E. -

APPROVED BY: RUDY SIMONEAUX, P.E.

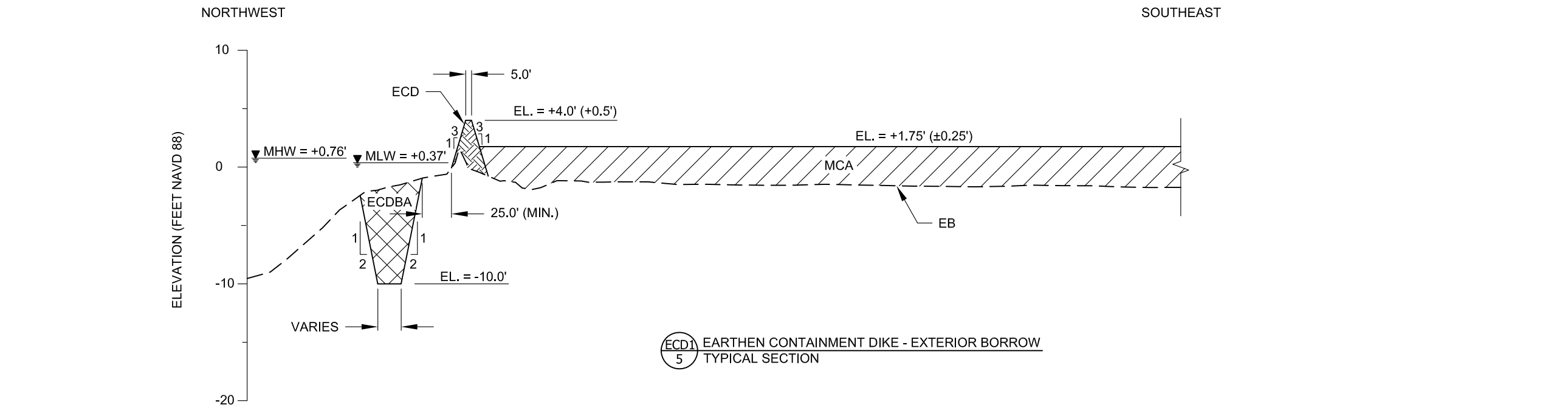
BAYOU DE CADE  
RIDGE AND MARSH CREATION  
PROJECT

STATE PROJECT NUMBER: TE-0138

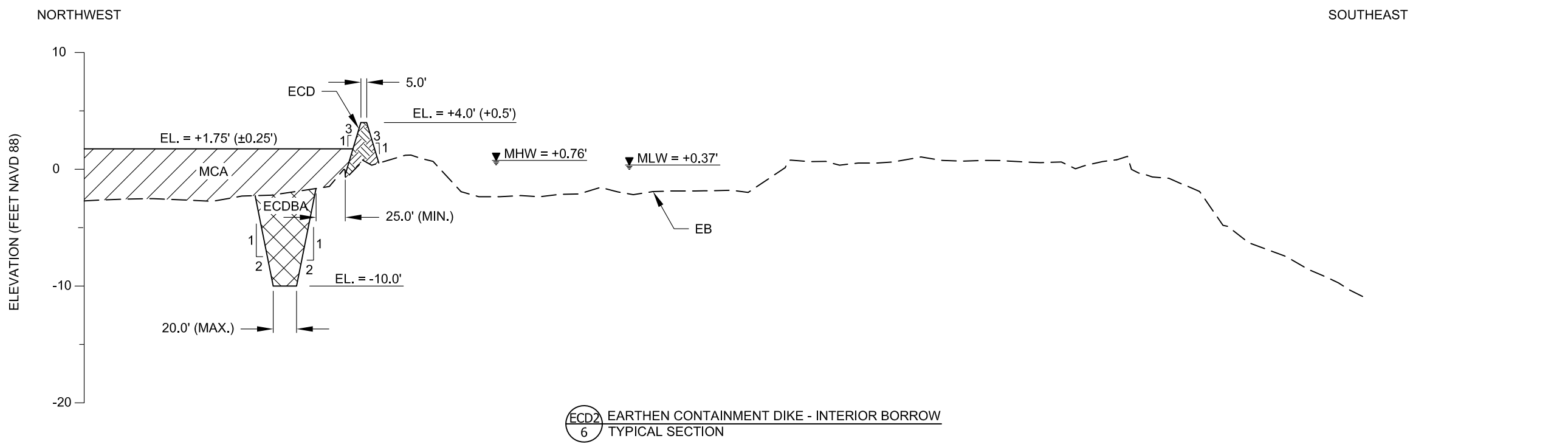
DRAWN BY: SHANE FAUST

DATE: OCTOBER 2018

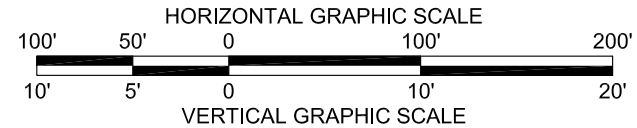
SHEET 7 OF 24



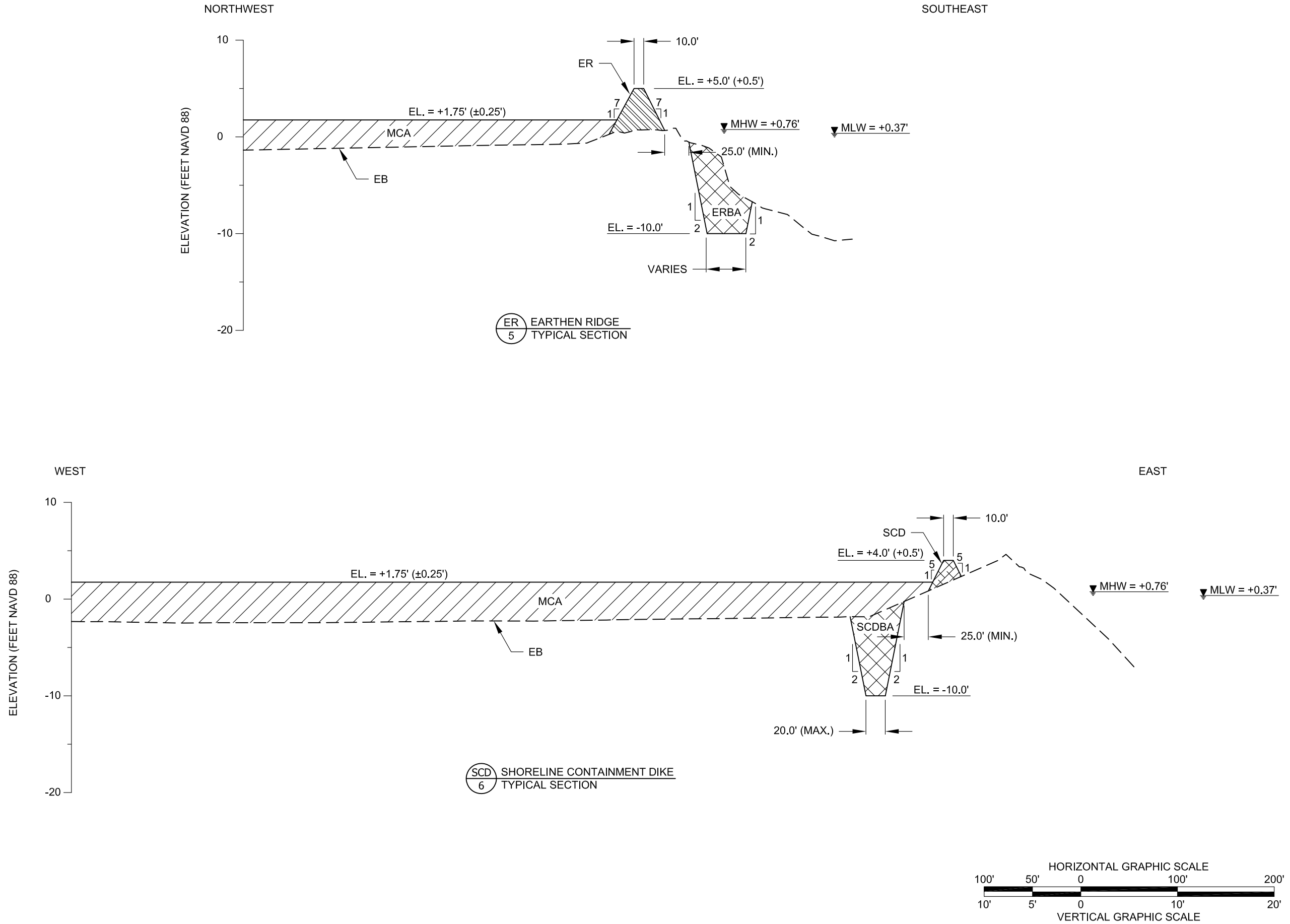
**(ECD1)** EARTHEN CONTAINMENT DIKE - EXTERIOR BORROW  
5 TYPICAL SECTION



**(ECD2)** EARTHEN CONTAINMENT DIKE - INTERIOR BORROW  
6 TYPICAL SECTION



|                                                                                                    |  |      |             |    |
|----------------------------------------------------------------------------------------------------|--|------|-------------|----|
| COASTAL PROTECTION AND RESTORATION AUTHORITY<br>150 TERRACE AVENUE<br>BATON ROUGE, LOUISIANA 70802 |  | DATE | DESCRIPTION | BY |
| EARTHEN CONTAINMENT DIKE TYPICAL SECTIONS                                                          |  |      |             |    |
| BAYOU DE CADE RIDGE AND MARSH CREATION PROJECT                                                     |  |      |             |    |
| STATE PROJECT NUMBER: TE-0138                                                                      |  |      |             |    |
| DRAWN BY: SHANE FAUST                                                                              |  |      |             |    |
| DESIGNED BY: TRAVIS BYLAND, P.E. -                                                                 |  |      |             |    |
| APPROVED BY: RUDY SIMONEAUX, P.E.                                                                  |  |      |             |    |
| DATE: OCTOBER 2018                                                                                 |  |      |             |    |
| SHEET 8 OF 24                                                                                      |  |      |             |    |

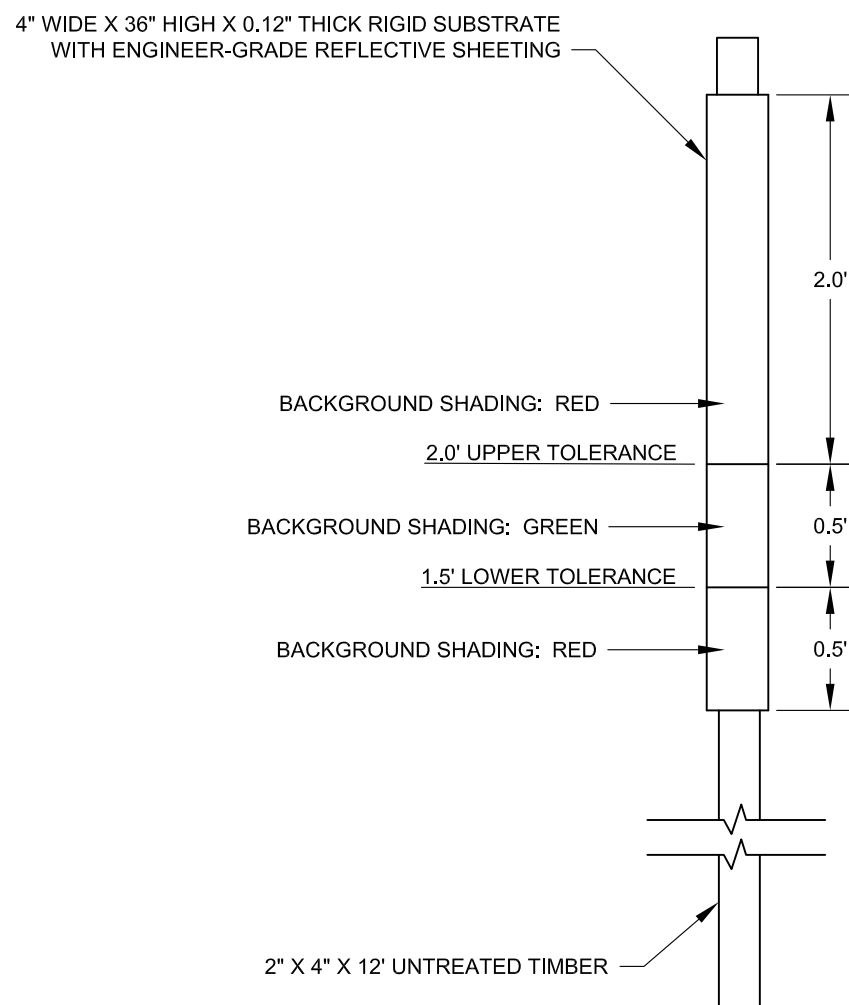


|                                                      |  |                                                                     |  |                                                                                                       |  |  |  |      |      |             |    |
|------------------------------------------------------|--|---------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------|--|--|--|------|------|-------------|----|
| BAYOU DE CADE<br>RIDGE AND MARSH CREATION<br>PROJECT |  | EARTHEN RIDGE AND<br>SHORELINE CONTAINMENT DIKE<br>TYPICAL SECTIONS |  | COASTAL PROTECTION AND<br>RESTORATION AUTHORITY<br>150 TERRACE AVENUE<br>BATON ROUGE, LOUISIANA 70802 |  |  |  |      |      |             |    |
| STATE PROJECT NUMBER: TE-0138                        |  | DESIGNED BY: TRAVIS BYLAND, P.E. -                                  |  |                                                                                                       |  |  |  |      |      |             |    |
| DRAWN BY: SHANE FAUST                                |  | APPROVED BY: RUDY SIMONEAUX, P.E.                                   |  |                                                                                                       |  |  |  | REV. | DATE | DESCRIPTION | BY |
| DATE: OCTOBER 2018                                   |  |                                                                     |  |                                                                                                       |  |  |  |      |      |             |    |
| SHEET 9 OF 24                                        |  |                                                                     |  |                                                                                                       |  |  |  |      |      |             |    |





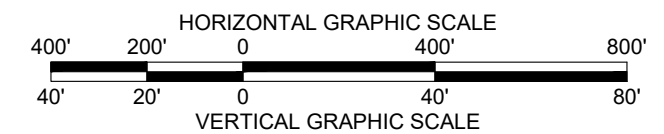
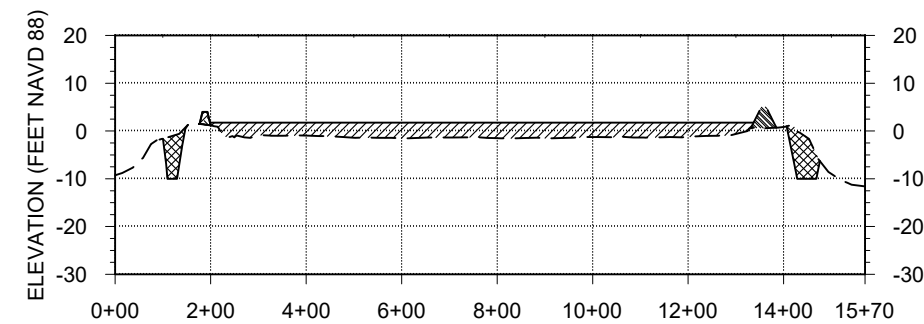
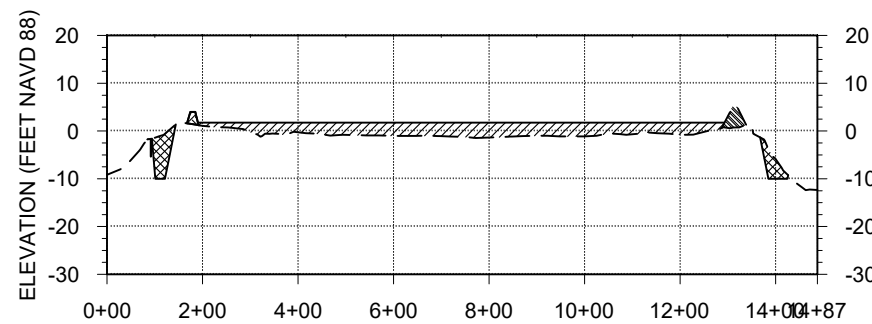
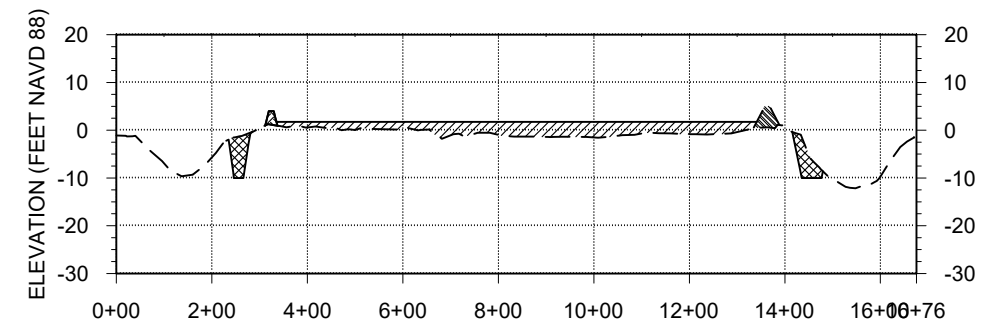
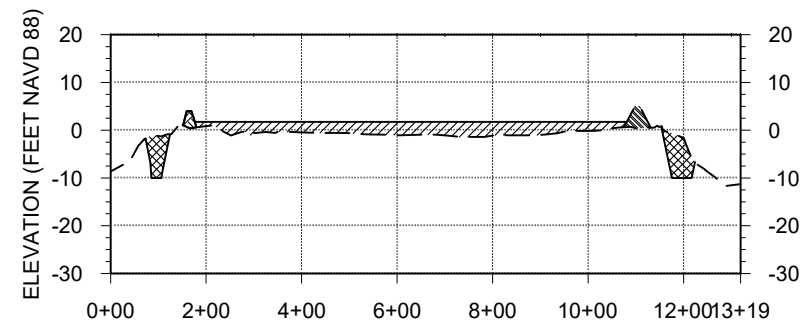
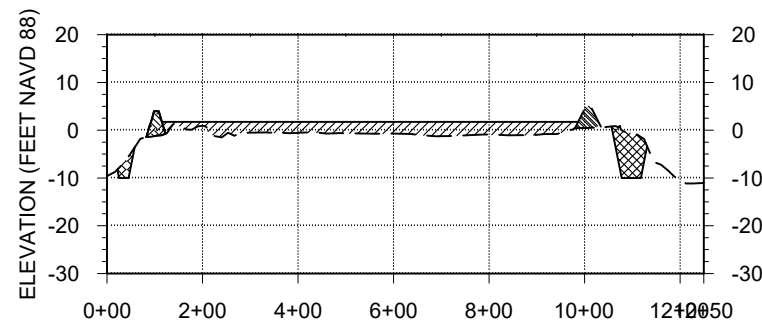
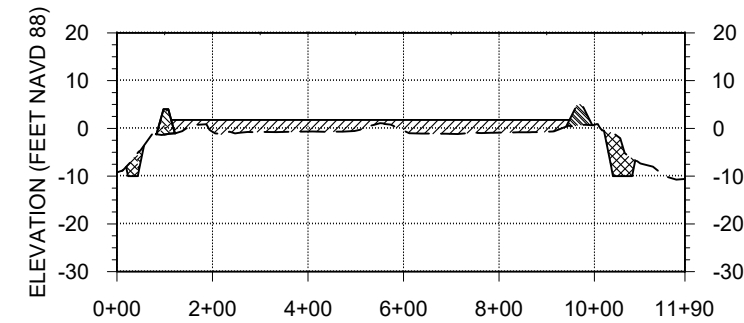
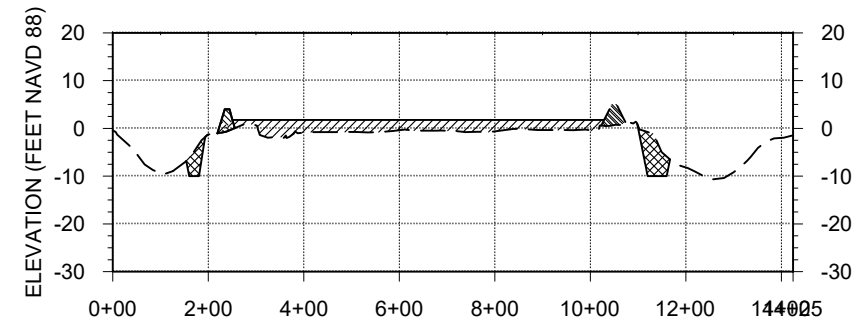
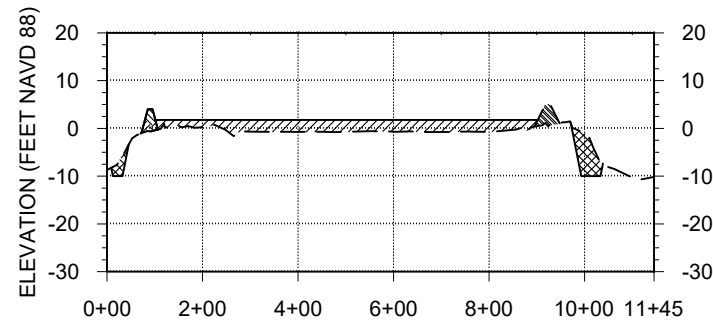
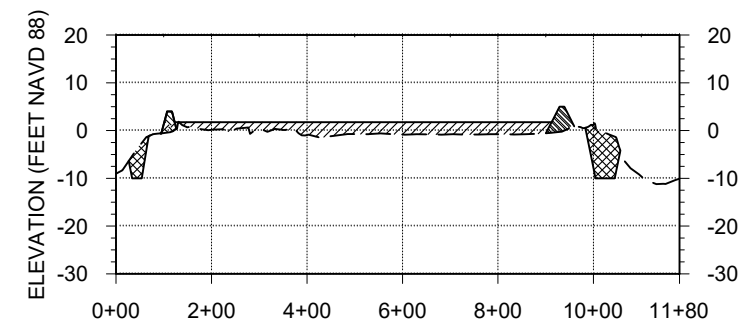
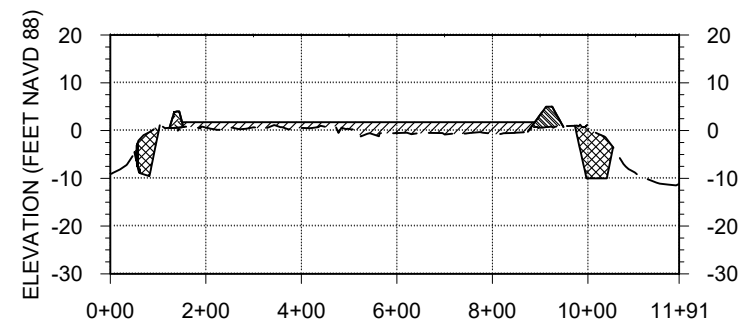
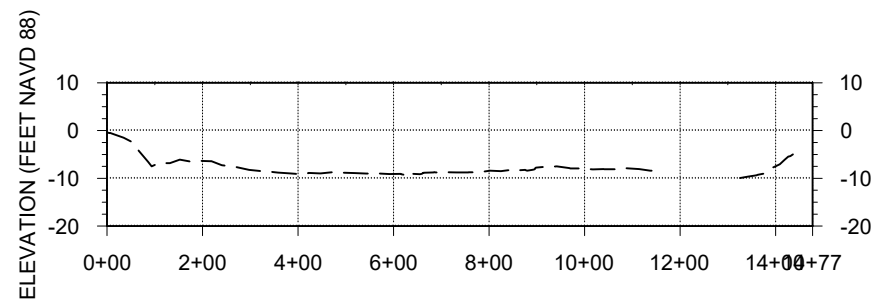




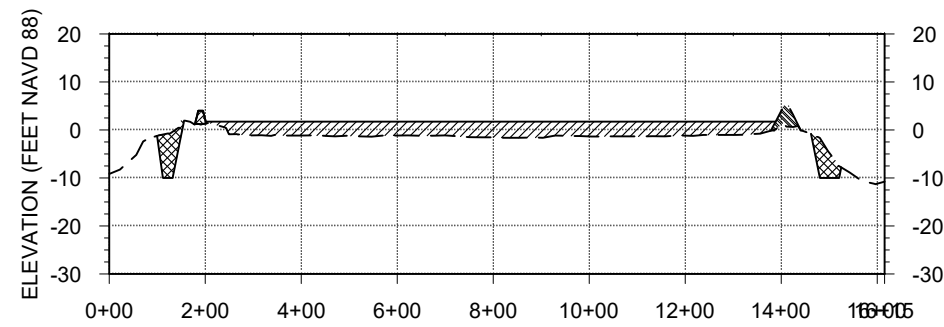
| GRADE STAKES |                        |
|--------------|------------------------|
|              | CMF ELEVATION (NAVD88) |
| MCA          | +1.75 ± 0.25'          |

NOTE:  
GRADE STAKE LOCATIONS SHALL BE DETERMINED BY CONTRACTOR.

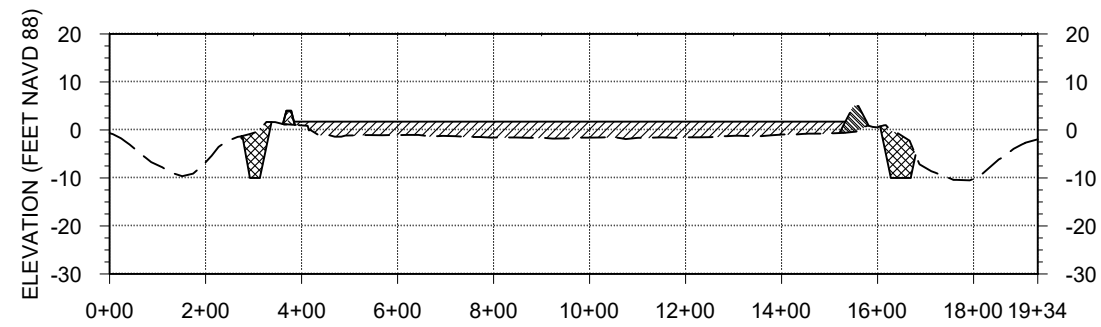
|                                                                                                                                            |                                                                                                                             |                                                                                                                            |  |  |  |      |      |             |    |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|--|--|--|------|------|-------------|----|
| <div>LAKE DE CADE<br/>RIDGE AND MARSH CREATION<br/>PROJECT</div> <div>STATE PROJECT NUMBER: PO-0138</div> <div>DRAWN BY: SHANE FAUST</div> | <div>GRADE STAKE<br/>DETAILS</div> <div>DESIGNED BY: TRAVIS BYLAND, P.E.</div> <div>APPROVED BY: RUDY SIMONEAUX, P.E.</div> | <div>COASTAL PROTECTION AND<br/>RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE<br/>BATON ROUGE, LOUISIANA 70802</div> |  |  |  |      |      |             |    |
|                                                                                                                                            |                                                                                                                             |                                                                                                                            |  |  |  |      |      |             |    |
|                                                                                                                                            |                                                                                                                             |                                                                                                                            |  |  |  |      |      |             |    |
|                                                                                                                                            |                                                                                                                             |                                                                                                                            |  |  |  |      |      |             |    |
|                                                                                                                                            |                                                                                                                             |                                                                                                                            |  |  |  |      |      |             |    |
| DATE: OCTOBER 2018                                                                                                                         |                                                                                                                             |                                                                                                                            |  |  |  | REV. | DATE | DESCRIPTION | BY |
| SHEET 13 OF 24                                                                                                                             |                                                                                                                             |                                                                                                                            |  |  |  |      |      |             |    |



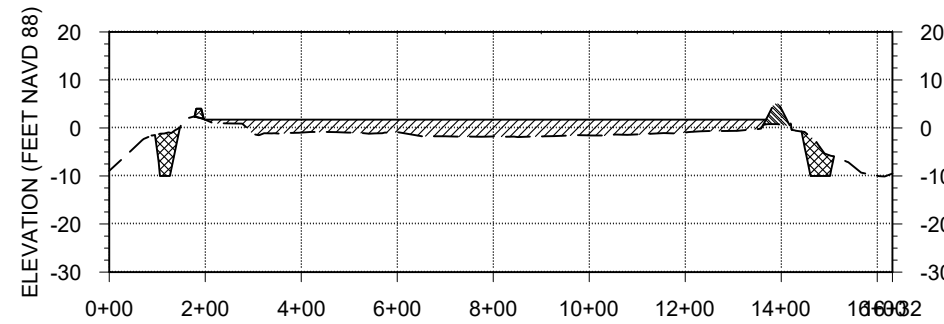
|                                                  |                                    |                                                                                                                                |  |      |      |             |
|--------------------------------------------------|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|--|------|------|-------------|
| DATE: JULY 2018                                  |                                    | <div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE A VENUE</div> <div>BATON ROUGE, LOUISIANA 70802</div> |  |      |      |             |
| LAKE DECADE MARSH CREATION AND RIDGE RESTORATION | MARSH CREATION SECTIONS            |                                                                                                                                |  |      |      |             |
| STATE PROJECT NUMBER: TE-0138                    | DESIGNED BY: TRAVIS BYLAND, P.E. - |                                                                                                                                |  |      |      |             |
| DRAWN BY: SHANE FAUST                            | APPROVED BY: RUDY SIMONEAUX, P.E.  |                                                                                                                                |  |      |      |             |
|                                                  |                                    |                                                                                                                                |  | REV. | DATE | DESCRIPTION |
| SHEET 14 OF 24                                   |                                    |                                                                                                                                |  |      | BY   |             |



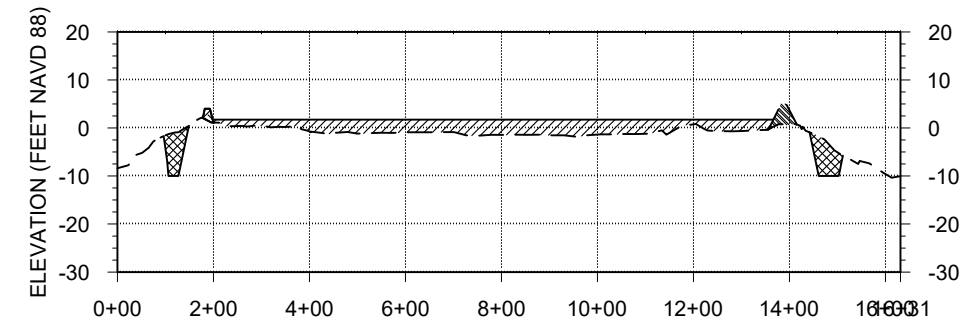
SECTION T-12



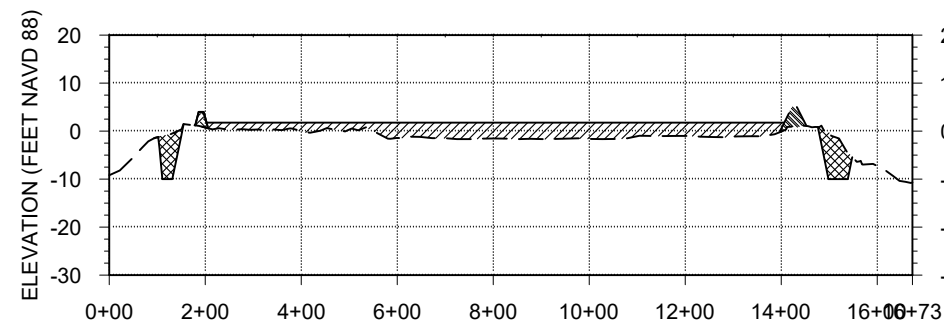
SECTION T-13



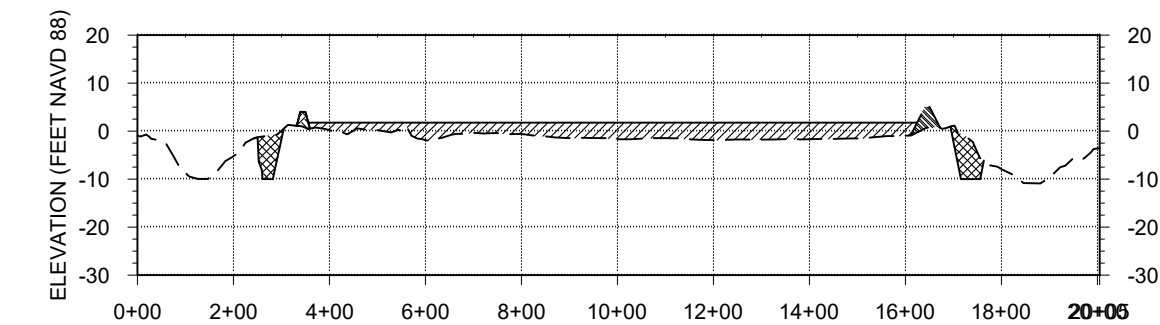
SECTION T-14



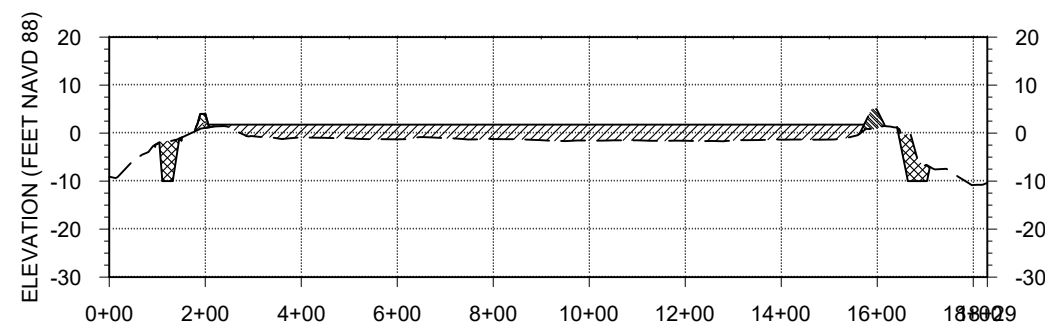
SECTION T-15



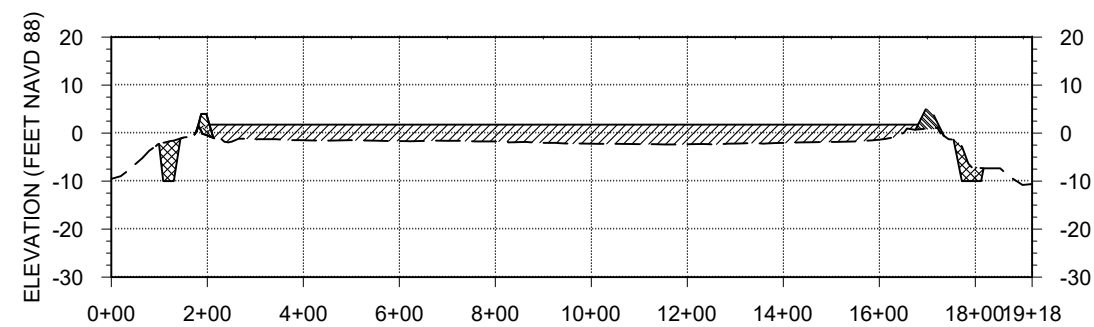
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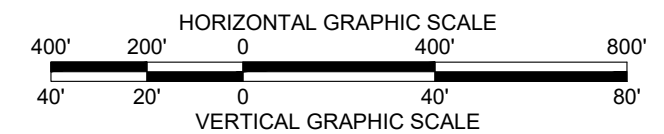
SECTION T-17



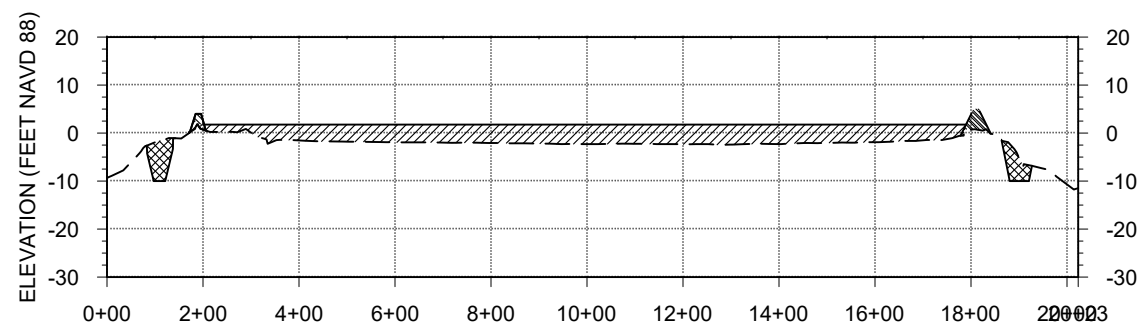
SECTION T-18



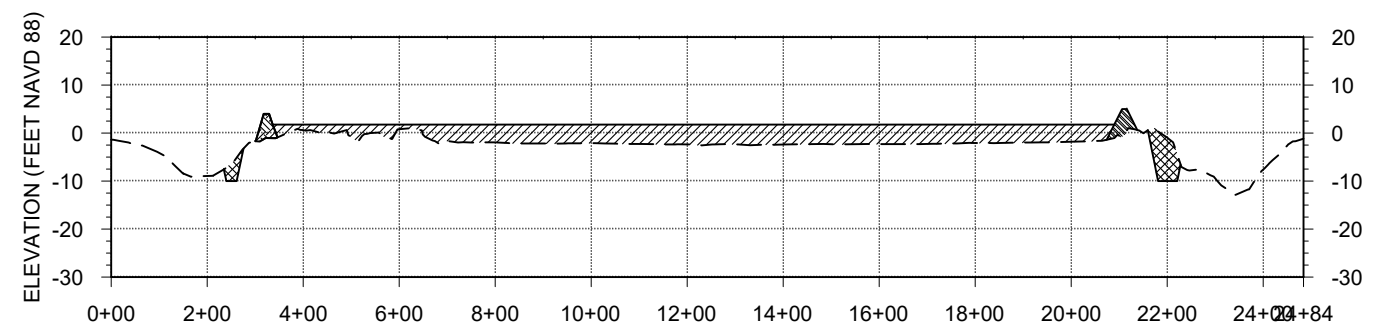
SECTION T-19



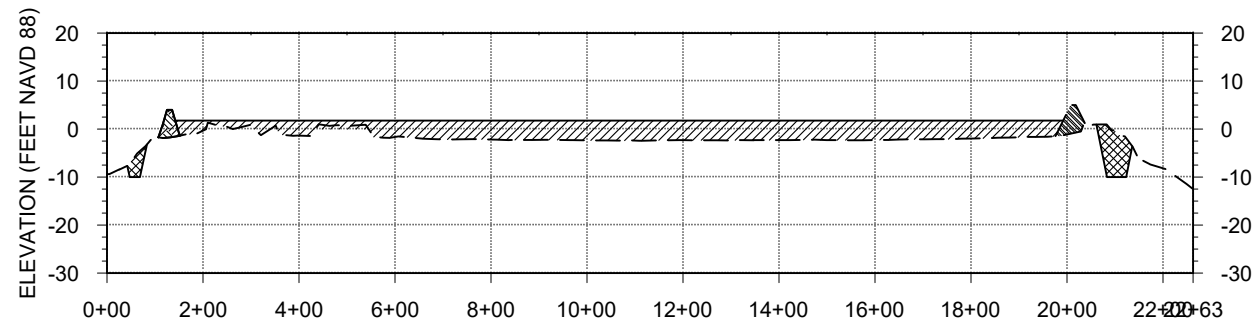
|                                                  |                                    |                                                                                                                                                           |  |      |      |             |
|--------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|------|-------------|
| DATE: JULY 2018                                  |                                    | <div style="text-align: center;"> <h1>COASTAL PROTECTION AND RESTORATION AUTHORITY</h1> <p>150 TERRACE AVENUE<br/>BATON ROUGE, LOUISIANA 70802</p> </div> |  |      |      |             |
| LAKE DECADE MARSH CREATION AND RIDGE RESTORATION | MARSH CREATION SECTIONS            |                                                                                                                                                           |  |      |      |             |
| STATE PROJECT NUMBER: TE-0138                    | DESIGNED BY: TRAVIS BYLAND, P.E. - |                                                                                                                                                           |  |      |      |             |
| DRAWN BY: SHANE FAUST                            | APPROVED BY: RUDY SIMONEAUX, P.E.  |                                                                                                                                                           |  |      |      |             |
|                                                  |                                    |                                                                                                                                                           |  | REV. | DATE | DESCRIPTION |
| SHEET 15 OF 24                                   |                                    |                                                                                                                                                           |  |      |      | BY          |



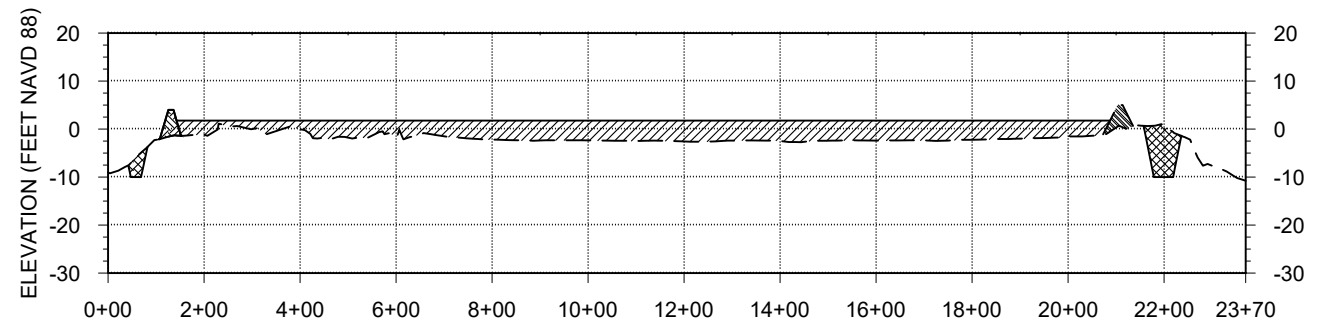
SECTION T-20



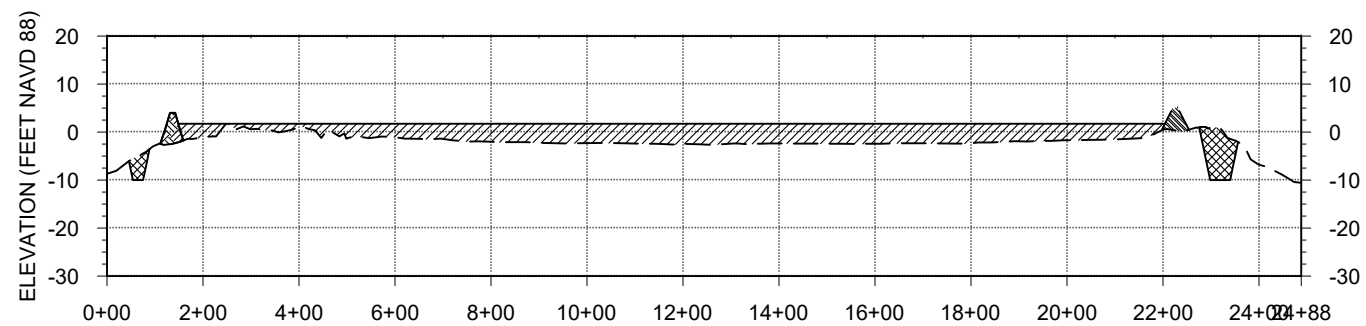
SECTION T-21



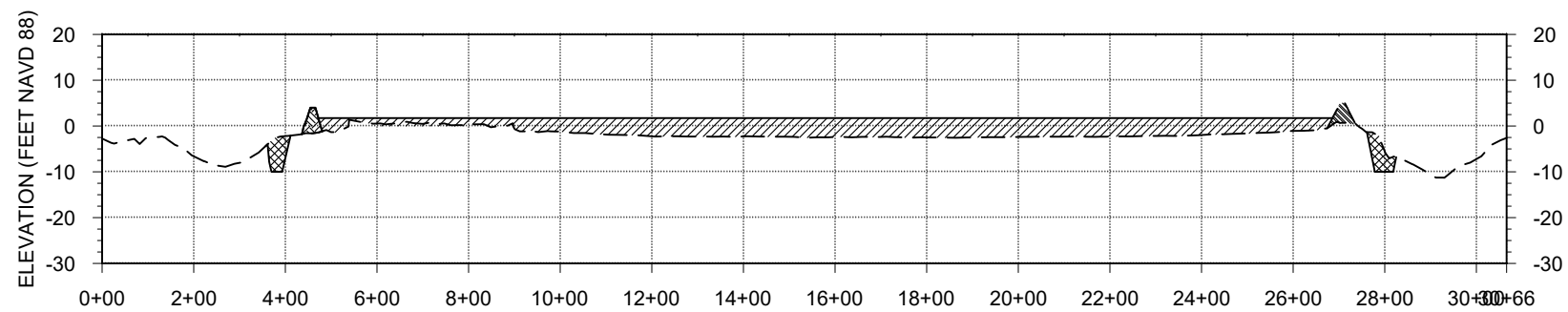
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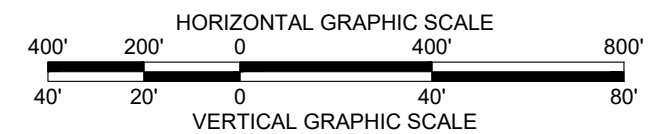
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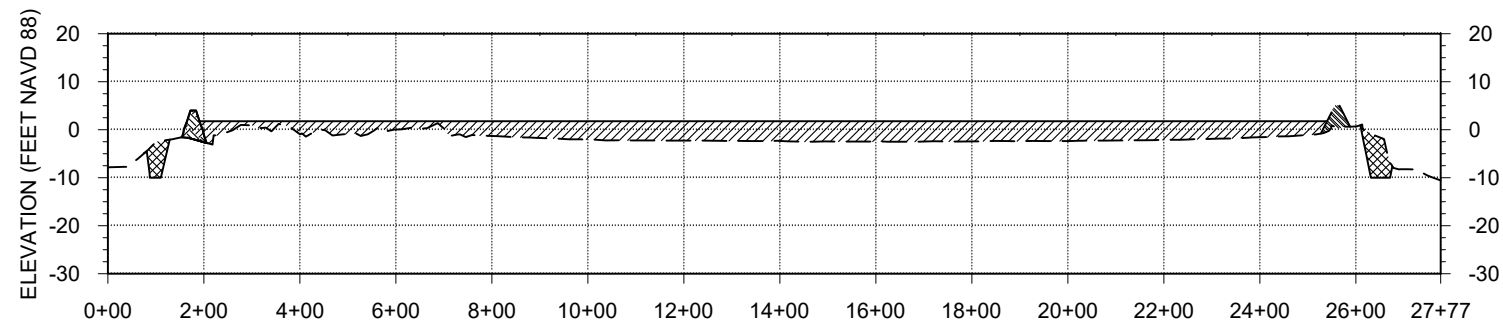
SECTION T-24



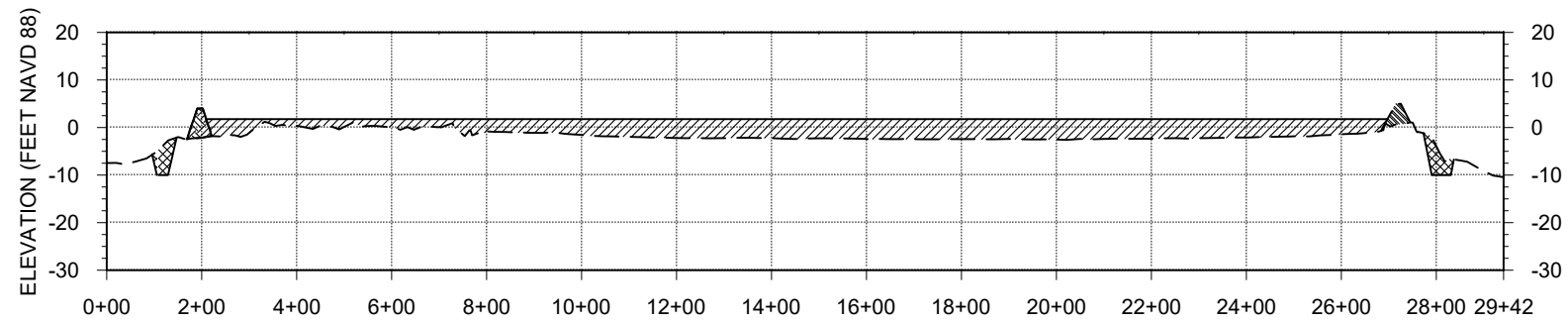
SECTION T-25



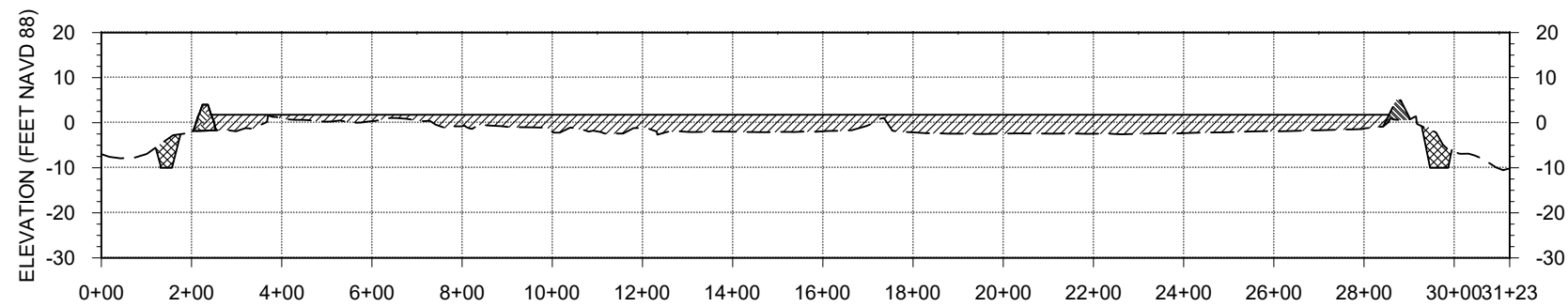
|                                                  |                                    |                                                                                                                               |  |      |      |             |
|--------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|------|------|-------------|
| DATE: JULY 2018                                  |                                    | <div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE</div> <div>BATON ROUGE, LOUISIANA 70802</div> |  |      |      |             |
| LAKE DECADE MARSH CREATION AND RIDGE RESTORATION | MARSH CREATION SECTIONS            |                                                                                                                               |  |      |      |             |
| STATE PROJECT NUMBER: TE-0138                    | DESIGNED BY: TRAVIS BYLAND, P.E. - |                                                                                                                               |  |      |      |             |
| DRAWN BY: SHANE FAUST                            | APPROVED BY: RUDY SIMONEAUX, P.E.  |                                                                                                                               |  |      |      |             |
|                                                  |                                    |                                                                                                                               |  | REV. | DATE | DESCRIPTION |
| SHEET 16 OF 24                                   |                                    |                                                                                                                               |  |      |      |             |



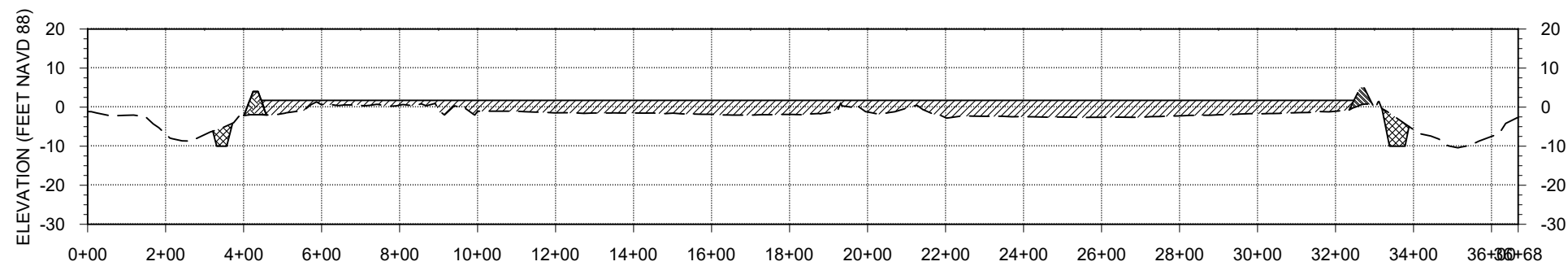
SECTION T-26



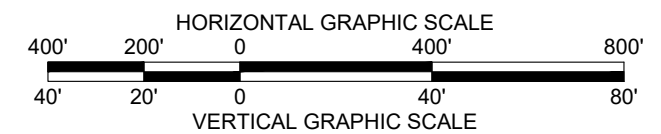
SECTION T-27



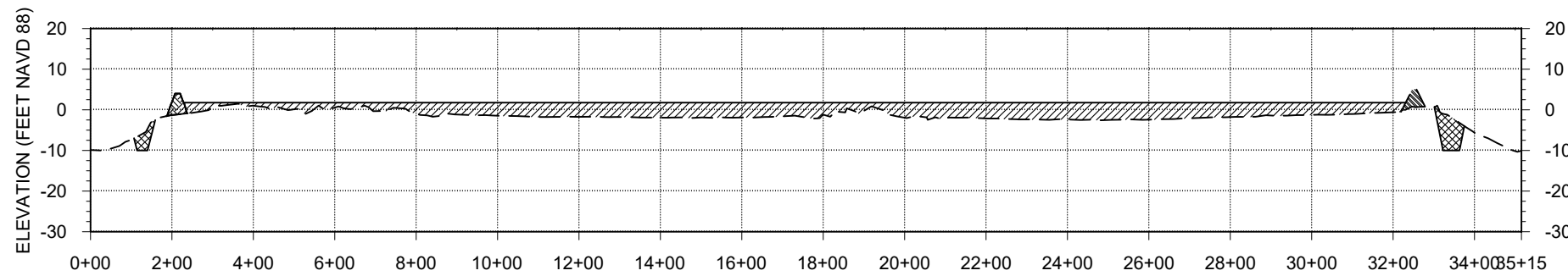
SECTION T-28



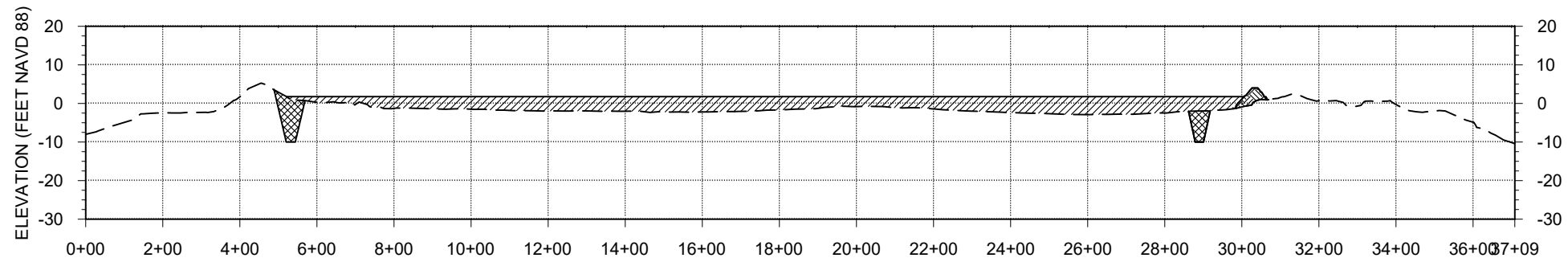
SECTION T-29



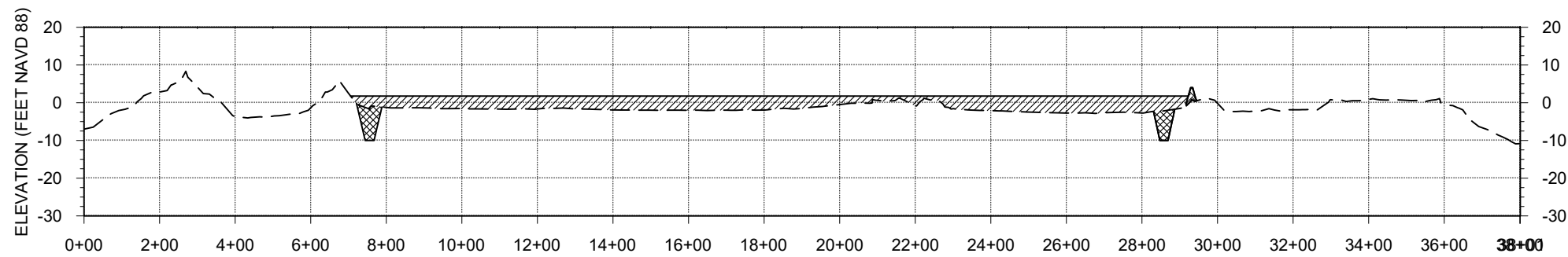
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|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------|------|-------------|--|--|--|----|
| DATE: JULY 2018                                     |                                    |                                                                                                               |      |             |  |  |  |    |
| SHEET 17 OF 24                                      |                                    |                                                                                                               |      |             |  |  |  |    |
| LAKE DECADE MARSH CREATION<br>AND RIDGE RESTORATION | MARSH CREATION<br>SECTIONS         | <b>COASTAL PROTECTION AND<br/>RESTORATION AUTHORITY</b><br>150 TERRACE AVENUE<br>BATON ROUGE, LOUISIANA 70802 |      |             |  |  |  |    |
| STATE PROJECT NUMBER: TE-0138                       | DESIGNED BY: TRAVIS BYLAND, P.E. - |                                                                                                               |      |             |  |  |  |    |
| DRAWN BY: SHANE FAUST                               | APPROVED BY: RUDY SIMONEAUX, P.E.  |                                                                                                               |      |             |  |  |  |    |
|                                                     |                                    | REV.                                                                                                          | DATE | DESCRIPTION |  |  |  | BY |



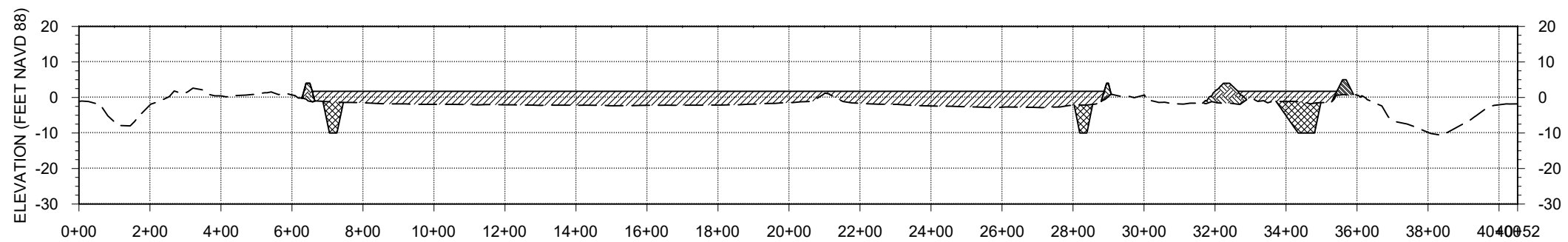
SECTION T-30



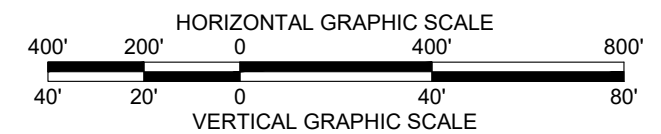
SECTION T-31



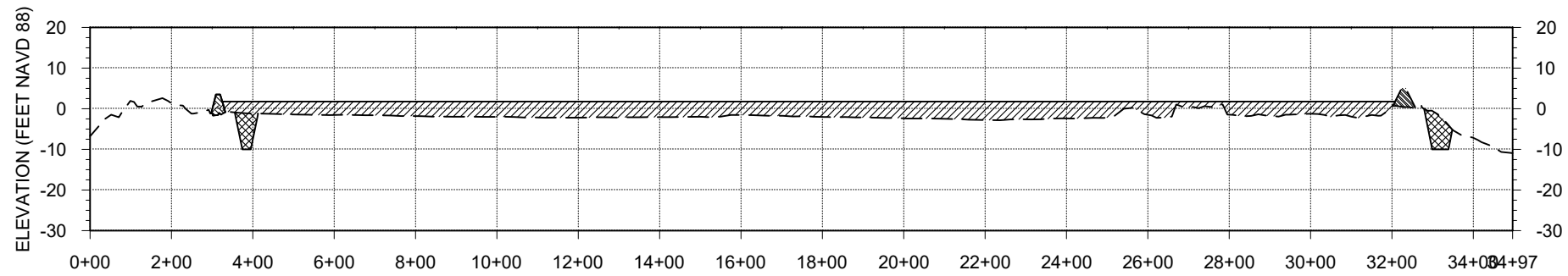
SECTION T-32



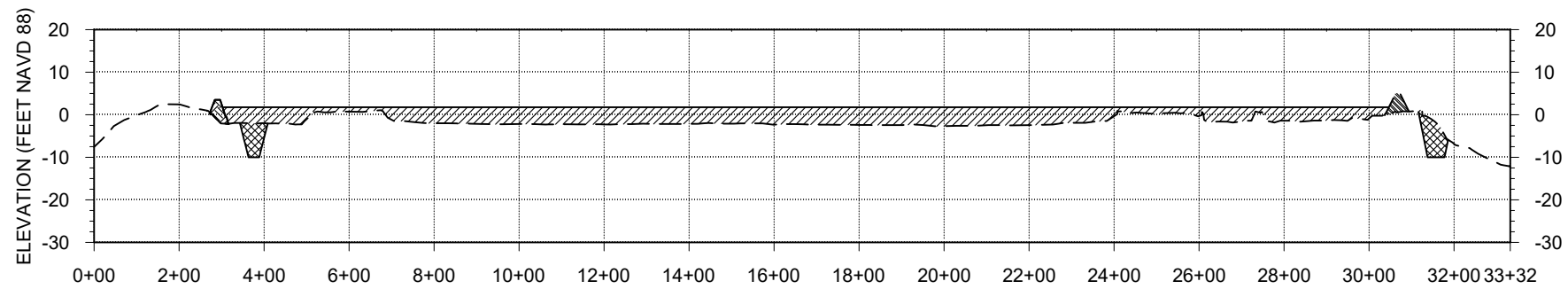
SECTION T-33



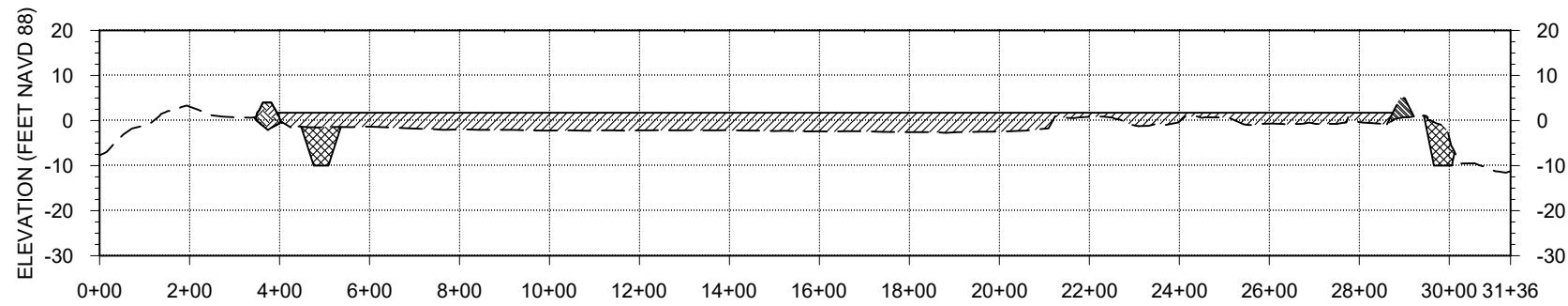
|                                                  |                                    |                                                                                                                               |  |      |      |             |
|--------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|------|------|-------------|
| DATE: JULY 2018                                  |                                    | <div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE</div> <div>BATON ROUGE, LOUISIANA 70802</div> |  |      |      |             |
| LAKE DECADE MARSH CREATION AND RIDGE RESTORATION | MARSH CREATION SECTIONS            |                                                                                                                               |  |      |      |             |
| STATE PROJECT NUMBER: TE-0138                    | DESIGNED BY: TRAVIS BYLAND, P.E. - |                                                                                                                               |  |      |      |             |
| DRAWN BY: SHANE FAUST                            | APPROVED BY: RUDY SIMONEAUX, P.E.  |                                                                                                                               |  |      |      |             |
|                                                  |                                    |                                                                                                                               |  | REV. | DATE | DESCRIPTION |
| SHEET 18 OF 24                                   |                                    |                                                                                                                               |  |      |      |             |



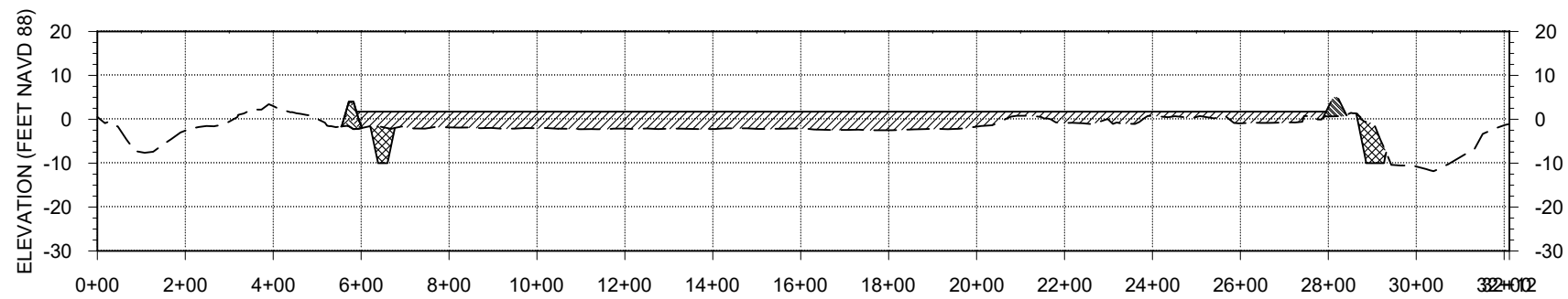
SECTION T-34



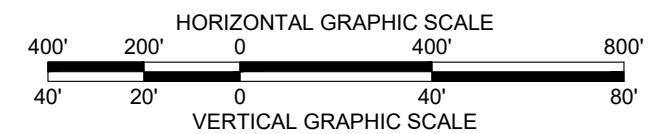
SECTION T-35



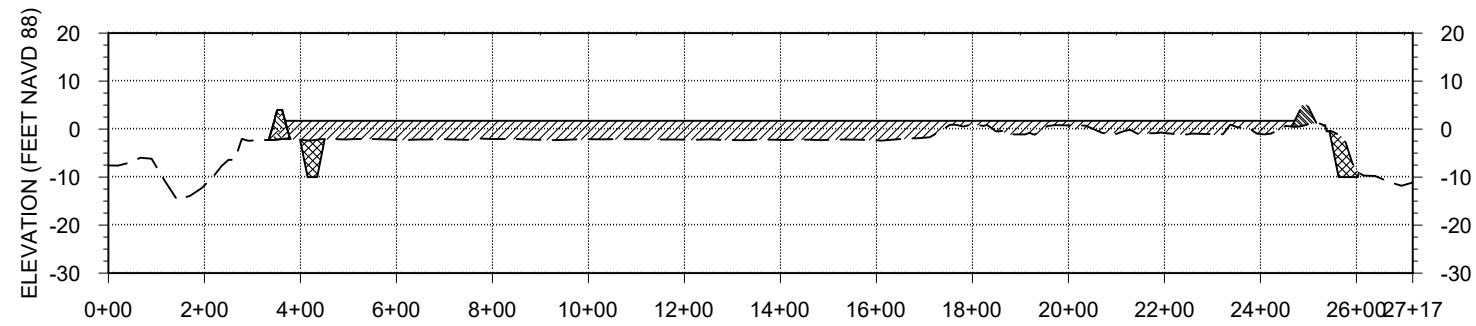
SECTION T-36



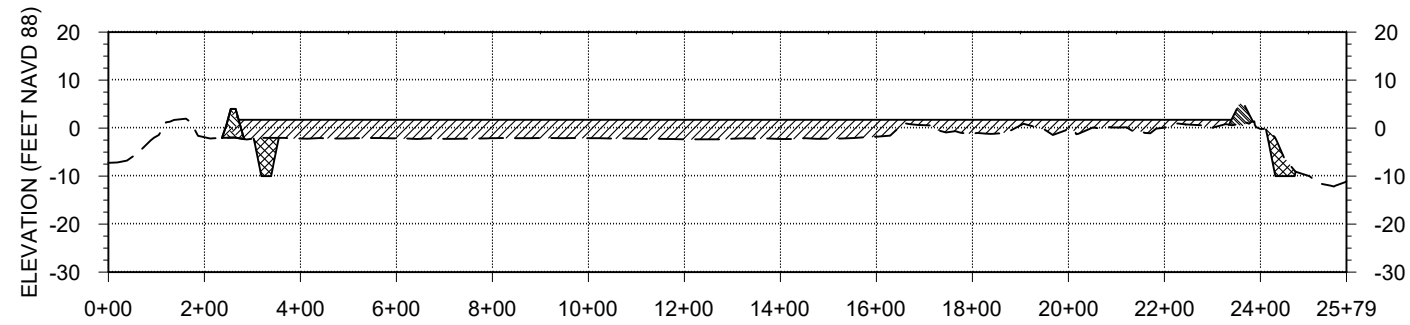
SECTION T-37



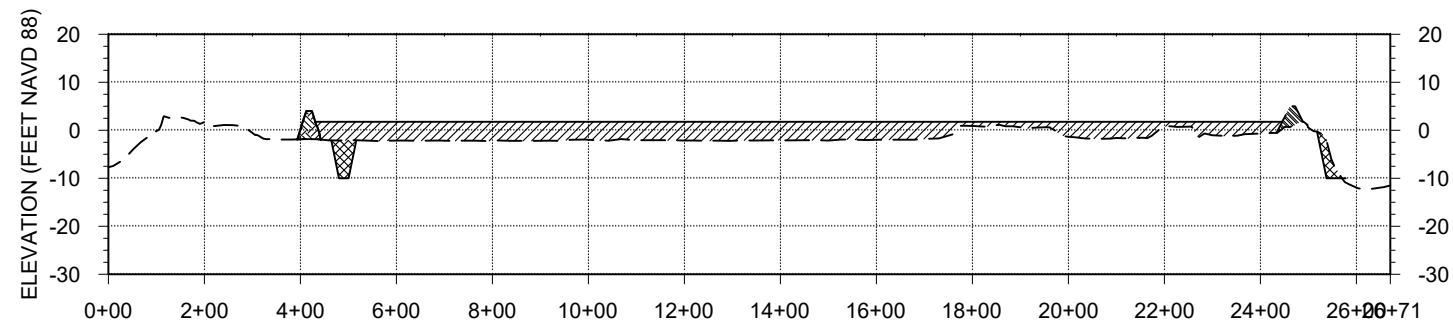
|                                                  |                                    |                                                                                                                                                           |  |      |      |             |
|--------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|------|-------------|
| DATE: JULY 2018                                  |                                    | <div style="text-align: center;"> <h1>COASTAL PROTECTION AND RESTORATION AUTHORITY</h1> <p>150 TERRACE AVENUE<br/>BATON ROUGE, LOUISIANA 70802</p> </div> |  |      |      |             |
| LAKE DECADE MARSH CREATION AND RIDGE RESTORATION | MARSH CREATION SECTIONS            |                                                                                                                                                           |  |      |      |             |
| STATE PROJECT NUMBER: TE-0138                    | DESIGNED BY: TRAVIS BYLAND, P.E. - |                                                                                                                                                           |  |      |      |             |
| DRAWN BY: SHANE FAUST                            | APPROVED BY: RUDY SIMONEAUX, P.E.  |                                                                                                                                                           |  |      |      |             |
|                                                  |                                    |                                                                                                                                                           |  | REV. | DATE | DESCRIPTION |
| SHEET 19 OF 24                                   |                                    | BY                                                                                                                                                        |  |      |      |             |



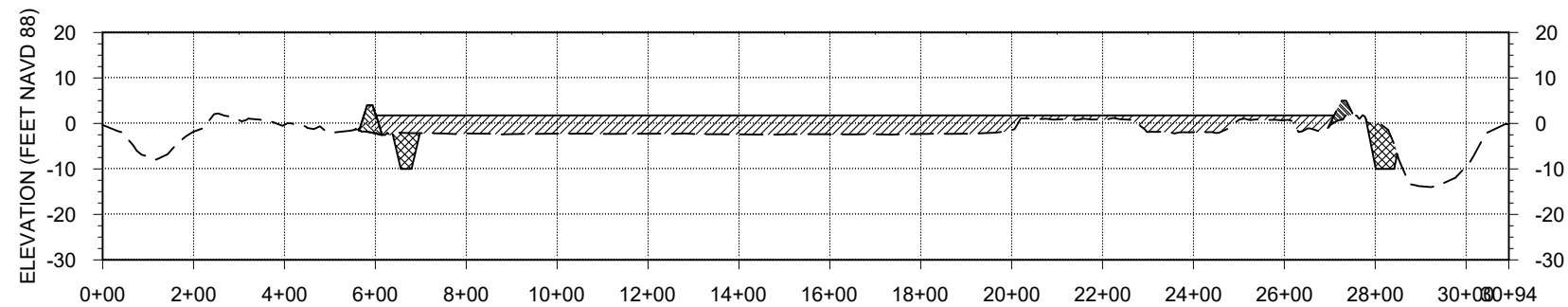
SECTION T-38



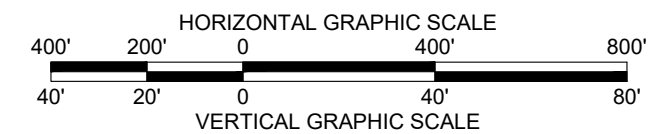
SECTION T-39



SECTION T-40

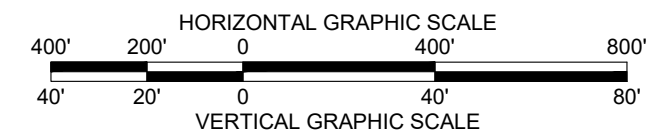
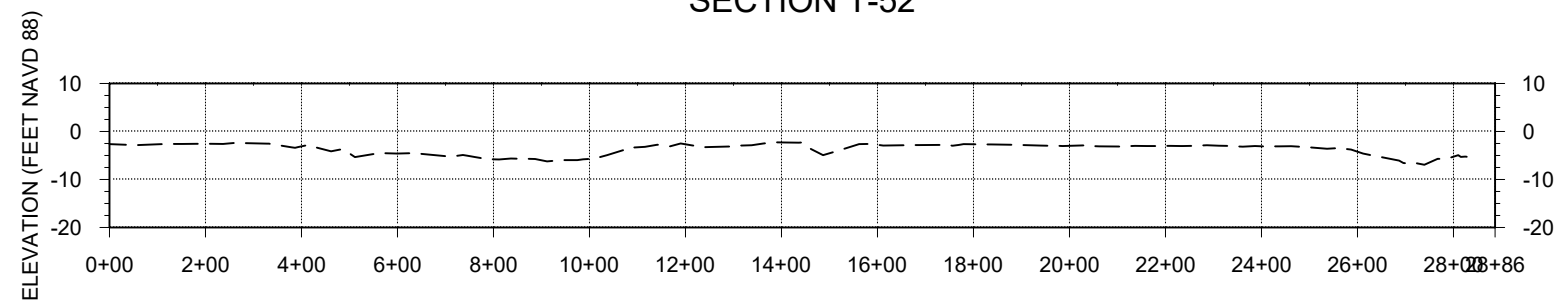
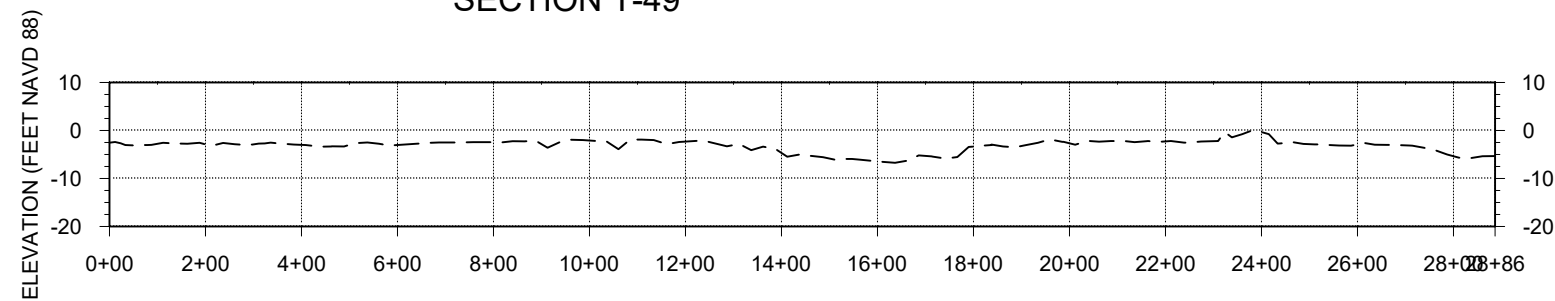
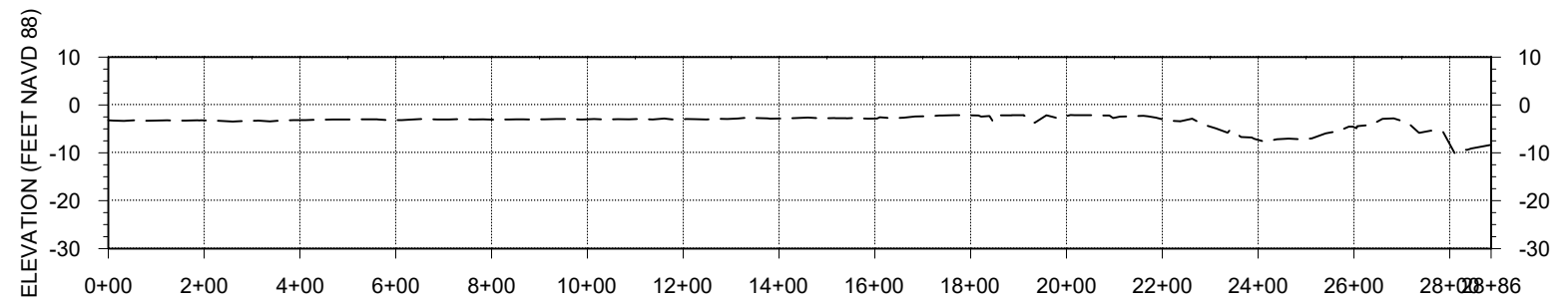
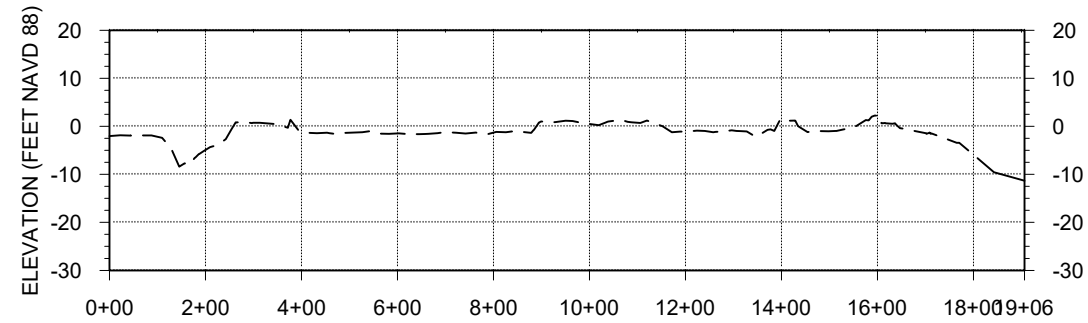
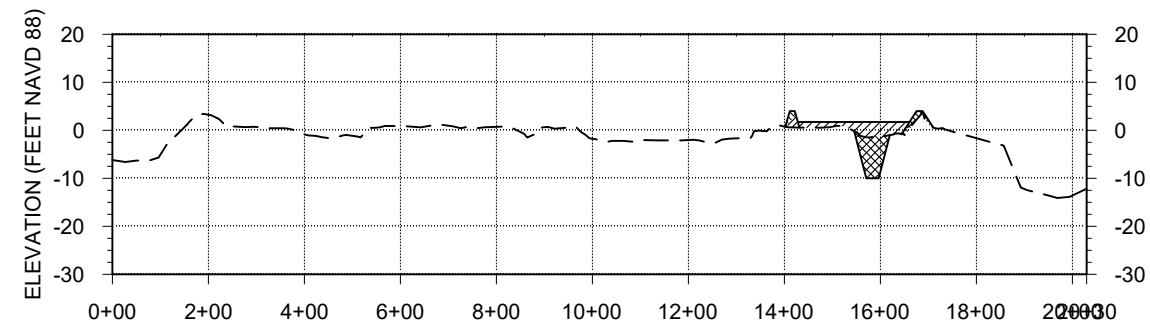
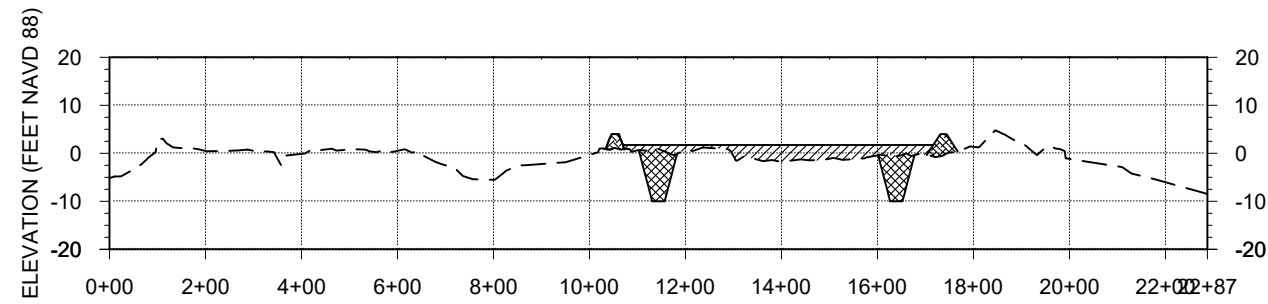
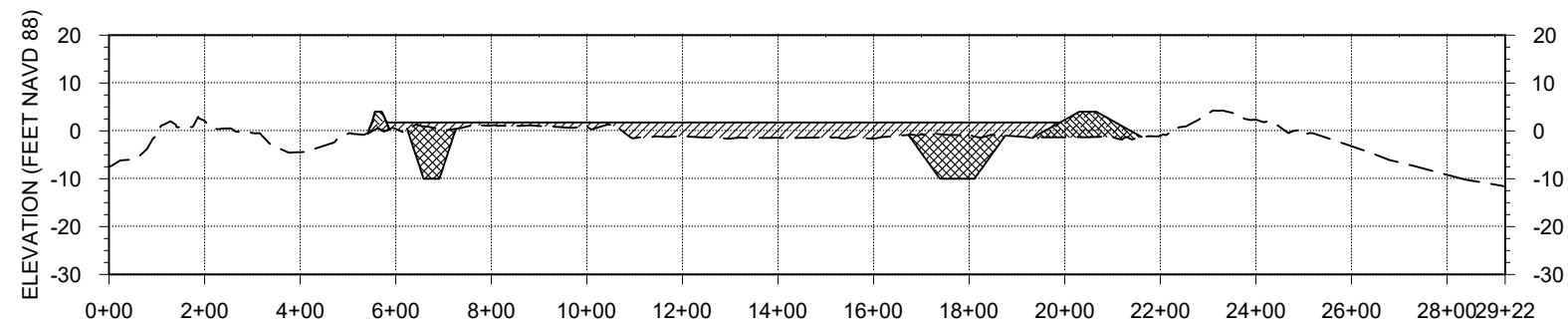


SECTION T-41



|                                                  |                                    |                                                                                                                               |  |      |      |             |
|--------------------------------------------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|------|------|-------------|
| DATE: JULY 2018                                  |                                    | <div>COASTAL PROTECTION AND RESTORATION AUTHORITY</div> <div>150 TERRACE AVENUE</div> <div>BATON ROUGE, LOUISIANA 70802</div> |  |      |      |             |
| LAKE DECADE MARSH CREATION AND RIDGE RESTORATION | MARSH CREATION SECTIONS            |                                                                                                                               |  |      |      |             |
| STATE PROJECT NUMBER: TE-0138                    | DESIGNED BY: TRAVIS BYLAND, P.E. - |                                                                                                                               |  |      |      |             |
| DRAWN BY: SHANE FAUST                            | APPROVED BY: RUDY SIMONEAUX, P.E.  |                                                                                                                               |  |      |      |             |
|                                                  |                                    |                                                                                                                               |  | REV. | DATE | DESCRIPTION |
| SHEET 20 OF 24                                   |                                    |                                                                                                                               |  |      |      |             |





|                                                     |                                    |                                                                                                               |      |             |  |    |
|-----------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------|------|-------------|--|----|
| DATE: JULY 2018                                     |                                    |                                                                                                               |      |             |  |    |
| SHEET 22 OF 24                                      |                                    |                                                                                                               |      |             |  |    |
| LAKE DECADE MARSH CREATION<br>AND RIDGE RESTORATION | MARSH CREATION<br>SECTIONS         | <b>COASTAL PROTECTION AND<br/>RESTORATION AUTHORITY</b><br>150 TERRACE AVENUE<br>BATON ROUGE, LOUISIANA 70802 |      |             |  |    |
| STATE PROJECT NUMBER: TE-0138                       | DESIGNED BY: TRAVIS BYLAND, P.E. - |                                                                                                               |      |             |  |    |
| DRAWN BY: SHANE FAUST                               | APPROVED BY: RUDY SIMONEAUX, P.E.  |                                                                                                               |      |             |  |    |
|                                                     |                                    | REV.                                                                                                          | DATE | DESCRIPTION |  | BY |



