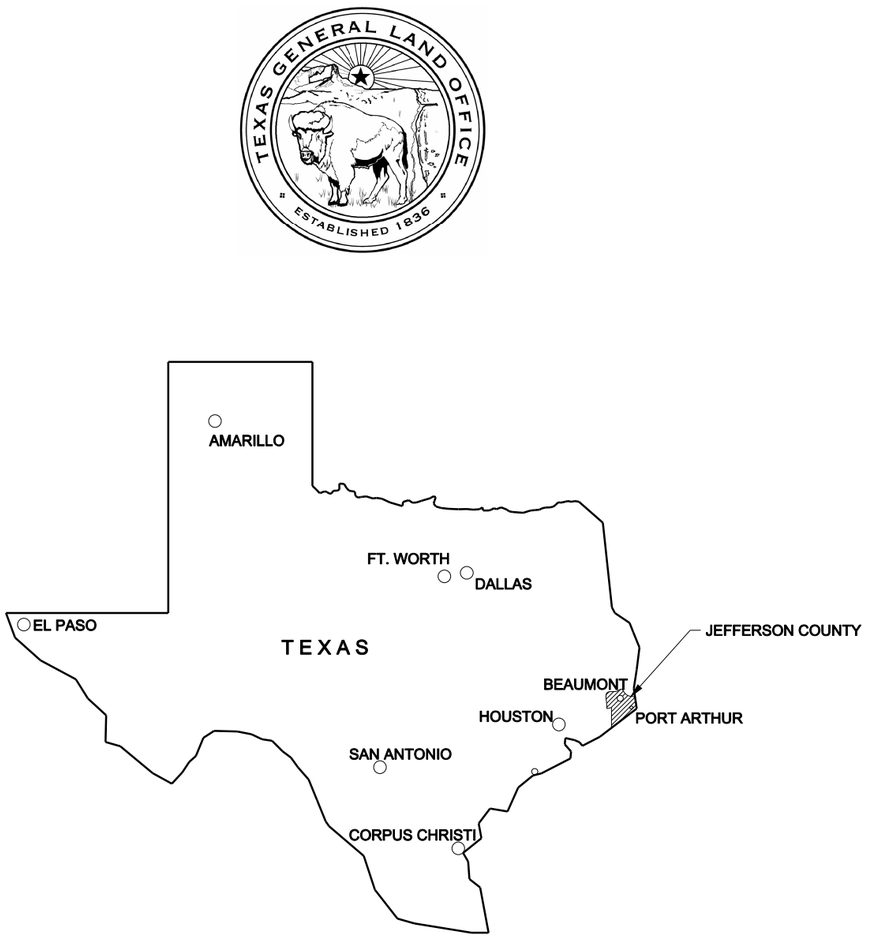
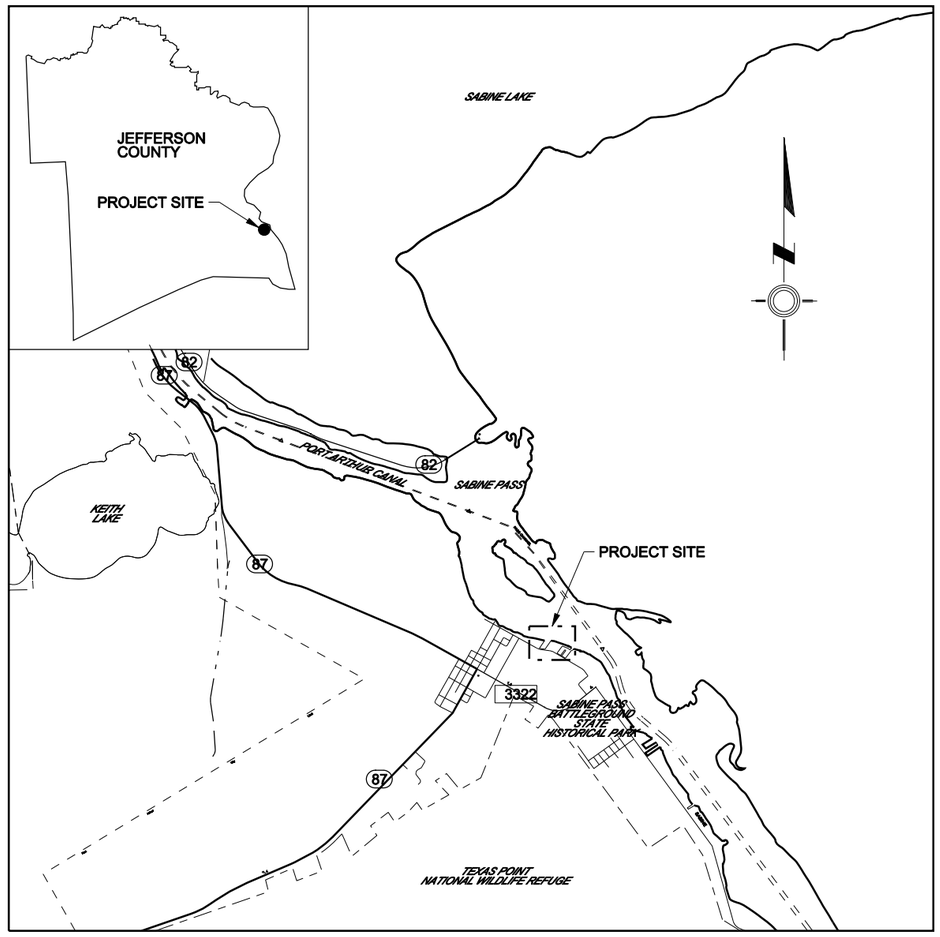
SABINE PASS PORT AUTHORITY

JEFFERSON COUNTY CONTRACT # DRS010219

TDRA POST-IKE ROUND ONE RECOVERY PROJECT
DEMOLITION AND DREDGING PHASE
SABINE PASS, TEXAS



01 VICINITY MAP
SCALE: NTS



02 LOCATION MAP
SCALE: NTS

CONFIDENTIAL - RESTRICTED USE

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DRAWING INDEX

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DEMOLITION AND DREDGING PLANS

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SW3P

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EC (1) - 93	TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES FENCED & BALED HAY

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STATE OF TEXAS — WILLIAM L. WORSHAM — 83153 — LICENSED PROFESSIONAL ENGINEER

W. L. Worsham, P.E.

WILLIAM L. WORSHAM, P.E. #83153

ISSUE	DATE	BY	DESCRIPTION	CHK'D	APP'D
0	10/06/11	JWB	ISSUED FOR CONSTRUCTION	CKW	WLW

SABINE PASS PORT AUTHORITY

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TDRA POST-IKE ROUND ONE RECOVERY PROJECT
DEMOLITION AND DREDGING PHASE
TABLE OF CONTENTS AND LOCATION MAP

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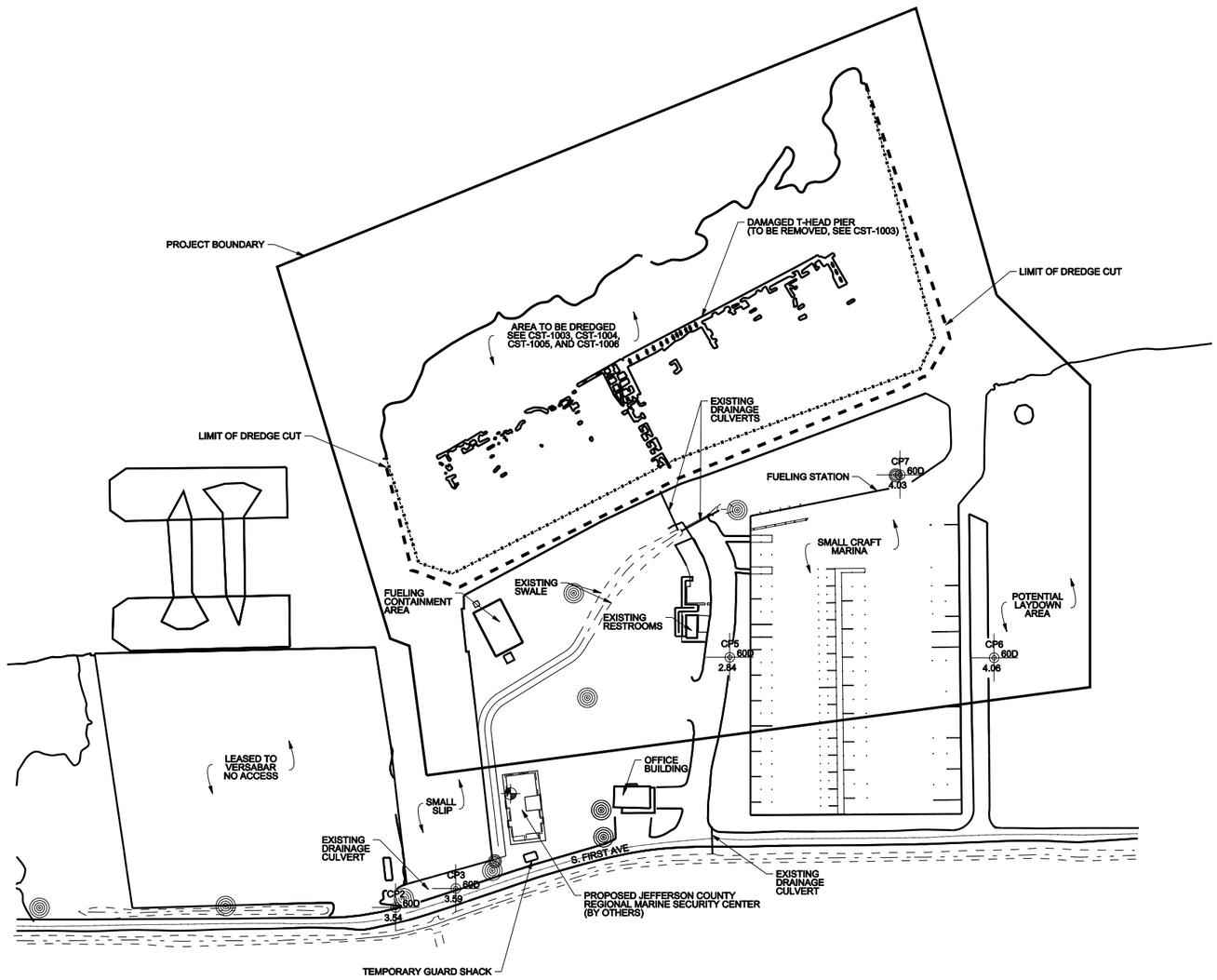
JWB	6OCT11	AS NOTED	CHK'D	CKW
			APP'D	WLW

DRAWING NO.	ISSUE NO.
474-1001-CST-1000	0



SITE PLAN

SCALE: 1" = 200'

0' 200' 400'

KEY

- CONTROL POINT
- BORING LOCATION
- POWER/LIGHT POLE

NOTES

1. THE SITE FALLS ENTIRELY WITHIN ZONE V15 (EL. 13) PER FIRM ISSUED FLOOD MAP 4854990070F

TIDE LEVELS	
MHHW	1.41'
MHW	1.30'
MSL	0.77'
MLW	0.21'
NAVD88	0.00'
MLLW	-0.20'

CONTROL POINTS

POINT	EASTING	NORTHING	ELEVATION
CP2	3591507.04	13850738.52	3.54
CP3	3591594.42	13850719.81	3.59
CP5	3592094.40	13850813.60	2.84
CP6	3592420.32	13850627.96	4.06
CP7	3592432.26	13850919.55	4.03

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DEMOLITION AND DREDGING PHASE
SYMBOLOGY, BENCHMARKS AND BORING LOCATIONS

DRAWN BY	DATE	SCALE	CH'KD / APP'D
JWB	6OCT11	1" = 200'	CKW / WLW

DRAWING NO.	ISSUE NO.
474-1001-CST-1001	0

GENERAL NOTES

1. THE WORK CONSISTS OF FURNISHING ALL LABOR, EQUIPMENT, AND MATERIALS FOR CONSTRUCTION, AS SHOWN ON THESE DRAWINGS AND SPECIFIED IN THE CONTRACT DOCUMENTS.

2. ALL WORK SHALL CONFORM TO THE REQUIRED PERMITS. CONTRACTOR SHALL COMPLY WITH ALL TERMS OF THE PERMITS AS PERTAINING TO PERFORMANCE OF WORK.

3. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL MEET WITH THE ENGINEER OR THE ENGINEER'S DESIGNEE (PRE-CONSTRUCTION MEETING) TO VERIFY CONSTRUCTION ACCESS LOCATIONS, DESIGN DETAILS, AND METHODS OF CONSTRUCTION.

4. EXISTING SITE CONDITIONS ARE FROM SURVEYS CONDUCTED BY ENGINEER IN DECEMBER 2010.

5. ALL SURVEY BENCHMARKS ESTABLISHED BY LEAP ENGINEERING, LLC.
   SURVEY DATA:
   HORIZONTAL DATUM: TEXAS SOUTH CENTRAL ZONE, NAD83, US SURVEY FEET
   VERTICAL DATUM: NAVD 88, US FEET

6. ALL DEBRIS SHALL BE REMOVED BY CONTRACTOR PRIOR TO COMMENCEMENT OF SITE WORK.

CONSTRUCTION NOTES

1. FIELD VERIFY ALL SITE CONDITIONS AND ENGINEERING DOCUMENTS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

2. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER BEFORE CONTINUING CONSTRUCTION.

3. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED WITHIN THE LIMITS OF THE LINES AND GRADES SHOWN ON THESE DRAWINGS, AND WITHIN THE PROJECT BOUNDARIES DESCRIBED IN THE CONTRACT DOCUMENTS.

4. ALL TRAFFIC RIGHT-OF-WAY WILL BE MAINTAINED BY CONTRACTOR FOLLOWING ALL TEXAS MUTCD REQUIREMENTS. CONTRACTOR SHALL PROVIDE ACCESS RAMPS OVER ANY PIPES, HOSES, OR TEMPORARY PLACEMENT OF EQUIPMENT ACROSS ROADWAY, PARKING AND OTHER AREAS WHERE TRAFFIC MAY BE EXPECTED.

CONSTRUCTION NOTES (CONT.)

5. ALL STRUCTURAL WOOD PRODUCTS SHALL BE A MINIMUM #2 YSP. ALL EXTERIOR OR GROUND EXPOSED WOOD PRODUCTS SHALL BE ACQ TREATED MAT'LS.

6. ALL RAMP DECKING SHALL BE FITTED TIGHT WITHOUT GAPS BETWEEN BOARDS.

7. ALL WASTE MATERIAL FROM CONSTRUCTION ACTIVITIES SHALL BE DISPOSED OF IN A LEGAL MANNER.

DREDGING NOTES

1. NO DREDGING WILL TAKE PLACE OUTSIDE OF THE ALLOWABLE CUT AREAS WITHIN THE DREDGE AREA LIMITS, AS DESCRIBED WITHIN THESE DRAWINGS AND THE CONTRACT DOCUMENTS.

2. NO DREDGING WILL EXCEED THE PERMITTED DEPTH OF CUT.

3. THE PROPOSED LOCATION OF THE DREDGE PIPELINE MUST BE SUBMITTED AND APPROVED BY THE ENGINEER PRIOR TO PLACEMENT OF THE PIPELINE.

4. THE CONTRACTOR SHALL PLAINLY MARK THE DISPOSAL AREA PIPELINE ACCESS ROUTES WITH CONSPICUOUS STAKES, TARGETS, AND/OR BUOYS, TO BE MAINTAINED THROUGHOUT THE CONTRACT OPERATIONS.

5. IN THE EVENT THE CONTRACTOR ELECTS TO SUBMERGE HIS PIPELINE, THE PIPELINE SHALL REST ON THE BOTTOM, AND THE TOP OF THE SUBMERGED PIPELINE AND ANY ANCHOR SECURING THE SUBMERGED PIPELINE SHALL BE NO HIGHER THAN THE REQUIRED PROJECT DEPTH FOR THE CHANNEL IN WHICH THE SUBMERGED PIPELINE IS PLACED. THE CONTRACTOR SHALL MAKE DAILY UNDERWATER INSPECTIONS OF THE SUBMERGED PIPELINE TO ENSURE BUOYANCY HAS NOT LOOSENED PIPELINE ANCHORS. THE CONTRACTOR SHALL REMOVE ALL ANCHORS WHEN THE SUBMERGED PIPELINE IS REMOVED. THE LOCATION OF THE ENTIRE LENGTH OF SUBMERGED PIPELINE SHALL BE MARKED WITH SIGNS, BUOYS, LIGHTS AND FLAGS CONFORMING TO U.S. COAST GUARD REGULATIONS.

DREDGING NOTES (CONT.)

6. IT IS THE CONTRACTORS RESPONSIBILITY TO INVESTIGATE THE LOCATION OF ALL UTILITY CROSSINGS. ANY DAMAGE THAT OCCURS AS A RESULT OF CONTRACTOR OPERATIONS WILL REQUIRE A SUSPENSION OF DREDGING UNTIL DAMAGE IS REPAIRED AND APPROVED BY THE ENGINEER. COSTS OF SUCH REPAIRS AND DOWNTIME OF THE DREDGE AND ATTENDANT PLANT SHALL BE AT THE CONTRACTORS EXPENSE.

7. THE CONTRACTOR SHALL DISPLAY SIGNAL LIGHTS AND CONDUCT OPERATIONS IN ACCORDANCE WITH THE GENERAL REGULATIONS OF THE U.S. COAST GUARD GOVERNING LIGHTS AND DAY SIGNALS TO BE DISPLAYED BY DREDGES, LIGHTS TO BE DISPLAYED ON DREDGE PIPELINES, AND DAY SIGNALS TO BE DISPLAYED BY VESSELS OF MORE THAN 65 FEET IN LENGTH MOORED OR ANCHORED IN A FAIRWAY OR CHANNEL, SET FORTH BY THE U.S. COAST GUARD.

8. NO DAMAGE WILL BE ALLOWED TO PUBLIC OR PRIVATE PROPERTY. ANY DAMAGES TO PUBLIC OR PRIVATE PROPERTY RESULTING FROM THE CONTRACTORS OPERATIONS WILL BE REPAIRED AT THE CONTRACTORS EXPENSE, OR AS DIRECTED BY ENGINEER.

9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING INFORMATION CONCERNING RAIN, WIND, AND WAVE CONDITIONS THAT COULD INFLUENCE DREDGING AND PLACEMENT OPERATIONS.

10. SURVEY CONTROL WILL BE ESTABLISHED FROM THE EXISTING SURVEY CONTROL DESCRIPTION DATA AND INFORMATION AS INDICATED ON THE CONTRACT DRAWINGS. CONTRACTOR SHALL OBTAIN DAILY MEASURED TIDE DATA FROM A LOCAL TIDE STAFF AND SHALL REFERENCE ELEVATIONS TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)

11. THE CONTRACTOR IS RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH THE HYDRODYNAMIC CONDITIONS PRESENT AT THE PROJECT SITE PRIOR TO BIDDING. SABINE-NECHES SHIP CHANNEL VESSEL TRAFFIC CREATES LARGE WATER LEVEL DRAWDOWNS AND SURGES ALONG THE SHORELINE.

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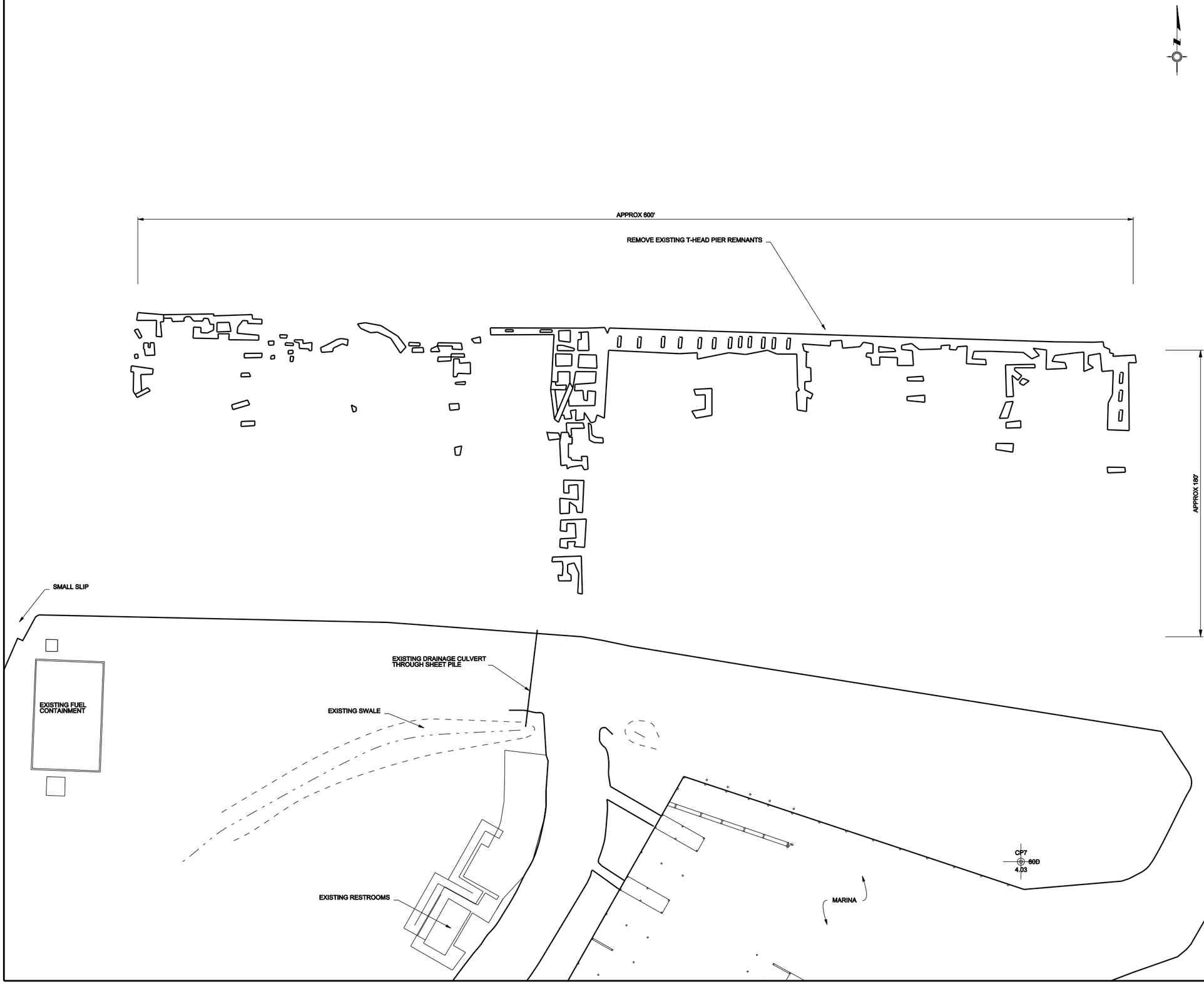
SABINE PASS PORT AUTHORITY

SABINE PASS PORT AUTHORITY
TDRA POST-IKE ROUND ONE RECOVERY PROJECT
DEMOLITION AND DREDGING PHASE
CONSTRUCTION NOTES

DRAWN BY	DATE	SCALE	CHK'D / APP'D	ISSUE NO.
JWB	6OCT11	NTS	CKW / WLW	0

DRAWING NO. 474-1001-CST-1002



0' 60' 120'

NOTES

1. ALL MATERIAL ABOVE AND BELOW WATER SURFACE IN THE PIER AREA IS TO BE REMOVED.
2. PILES ARE TO BE PULLED, NOT CUT OFF AT THE MUD LINE
3. ESTIMATED QUANTITIES FOR DEMOLITION WERE TAKEN FROM DRAWINGS OF THE PIER, PANORAMIC PHOTOGRAPHS AND SIDE SCAN SONAR RECORDS FOLLOWING HURRICANE RITA.
4. ESTIMATED QUANTITIES:
   - 374 - TIMBER BUTT PILES
   - 33 - PILE CAPS
   - 57 - WALES
   - 112 - CROSS BRACES

KEY

CONTROL POINT

CONTROL POINTS

POINT	EASTING	NORTHING	ELEVATION
CP7	3592432.26	13850919.55	4.03

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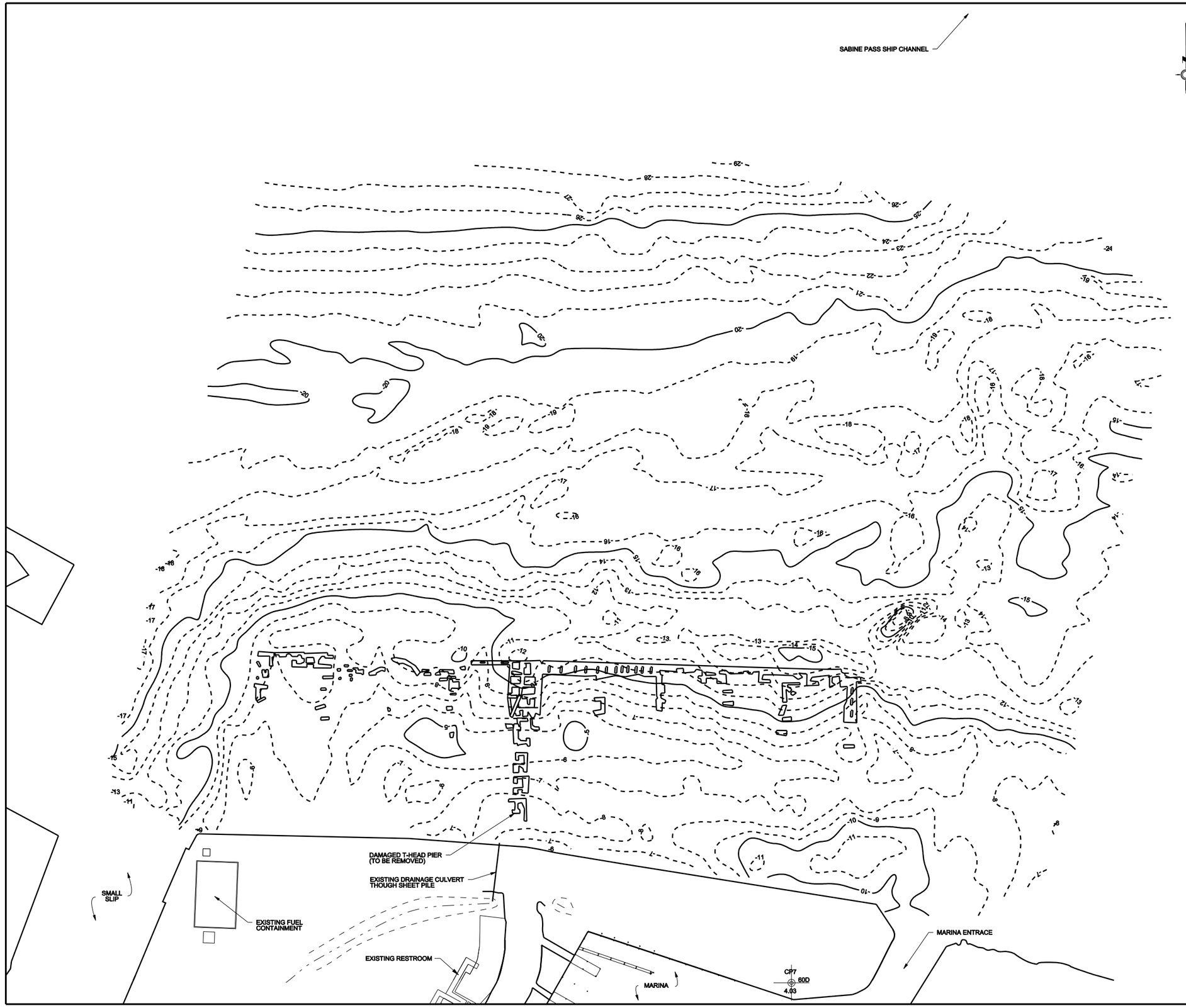
DEMOLITION AND DREDGING PHASE
T-HEAD PIER DEMOLITION PLAN

DRAWN BY	DATE	SCALE	CHK'D	APP'D
JWB	6OCT11	1" = 60'	CKW	WLW

DRAWING NO. 474-1001-CST-1003

ISSUE NO. 0



0' 100' 200'

NOTES

1. BATHYMETRIC SURVEY COLLECTED 12/7/10 AND 12/8/10 BY LEAP
2. HORIZONTAL DATUM IS NAD83 - STATEPLANE TEXAS SOUTH CENTRAL FIPS 4202 (FEET)
   VERTICAL DATUM IS NAVD88 (FEET)

KEY

- MAJOR CONTOURS
- MINOR CONTOURS
- CONTROL POINT

CONTROL POINTS

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CP7	3592432.26	13850919.55	4.03

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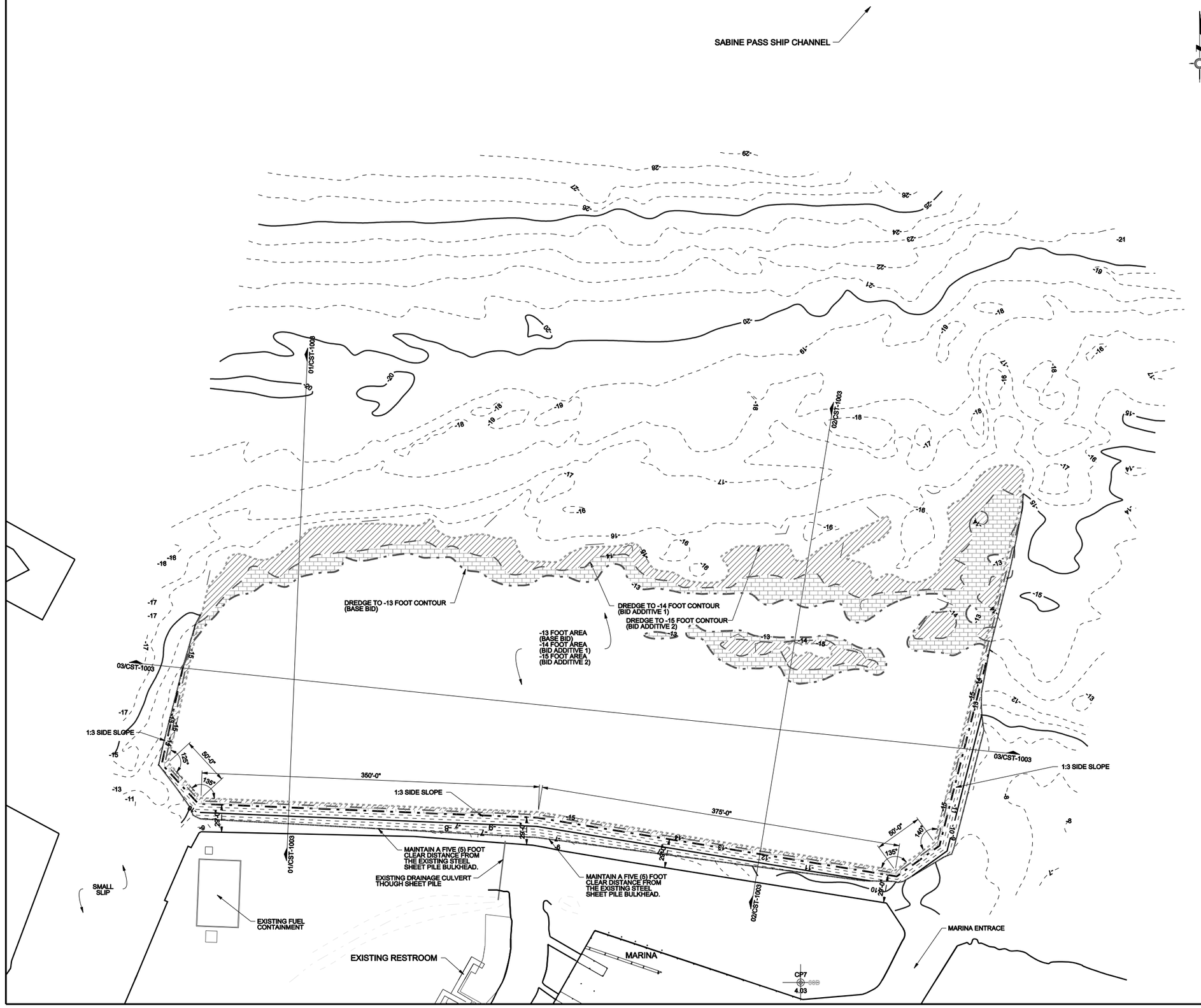
DEMOLITION AND DREDGING PHASE
EXISTING BATHYMETRY

DRAWN BY	DATE	SCALE	CHK'D / APP'D	ISSUE NO.
JWB	6OCT11	1" = 100'	CKW / WLW	0

DRAWING NO. 474-1001-CST-1004



0' 100' 200'

NOTES

1. BATHYMETRIC SURVEY COLLECTED 12/7/10 AND 12/8/10 BY LEAP (LPRG:474-1001)
2. HORIZONTAL DATUM IS NAD83 - STATEPLANE TEXAS SOUTH CENTRAL FIPS 4202 (SURVEY FEET)
   VERTICAL DATUM IS NAVD88 (FEET)
3. DREDGE VOLUME ESTIMATES (AS OF 12/8/10)
   BASE BID (TO -13 FEET): 29,800 CY
   BID ADDITIVE 1 (TO -14 FEET): 7,100 CY
   BID ADDITIVE 2 (TO -15 FEET): 7,900 CY
4. MAINTAIN A FIVE (5) FOOT CLEAR DISTANCE FROM THE EXISTING STEEL SHEET PILE BULKHEAD.

KEY

- -13 FT DREDGE EXTENT
- -14 FT DREDGE EXTENT (BID ADDITIVE 1)
- -15 FT DREDGE EXTENT (BID ADDITIVE 2)
- DREDGE IMPACT AREA
- MAJOR CONTOURS
- MINOR CONTOURS
- CONTROL POINT
- -14' DEPTH ADDITIONAL FOOTPRINT (BID ADDITIVE 1)
- -15' DEPTH ADDITIONAL FOOTPRINT (BID ADDITIVE 2)

CONTROL POINTS

POINT	EASTING	NORTHING	ELEVATION
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DEMOLITION AND DREDGING PHASE
PROPOSED DREDGE CUT PLAN VIEW

DRAWN BY	DATE	SCALE	CH'KD / APP'VD
JWB	6OCT11	1" = 100'	CKW / WLW

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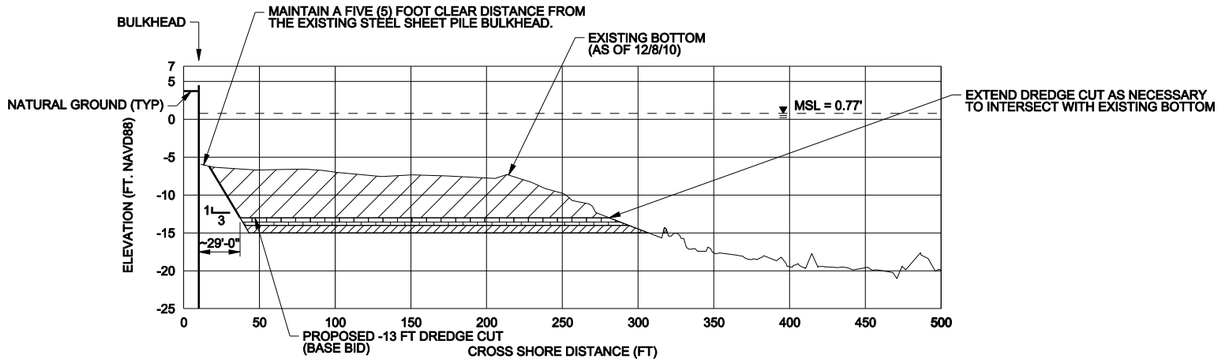
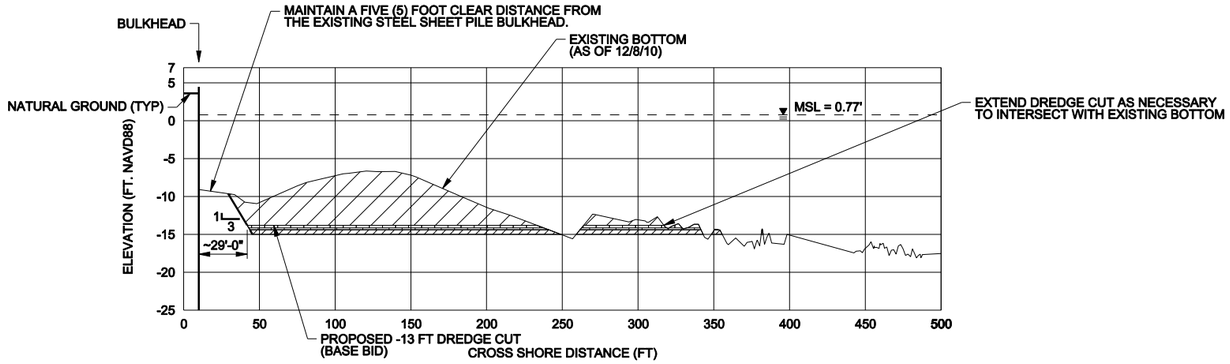


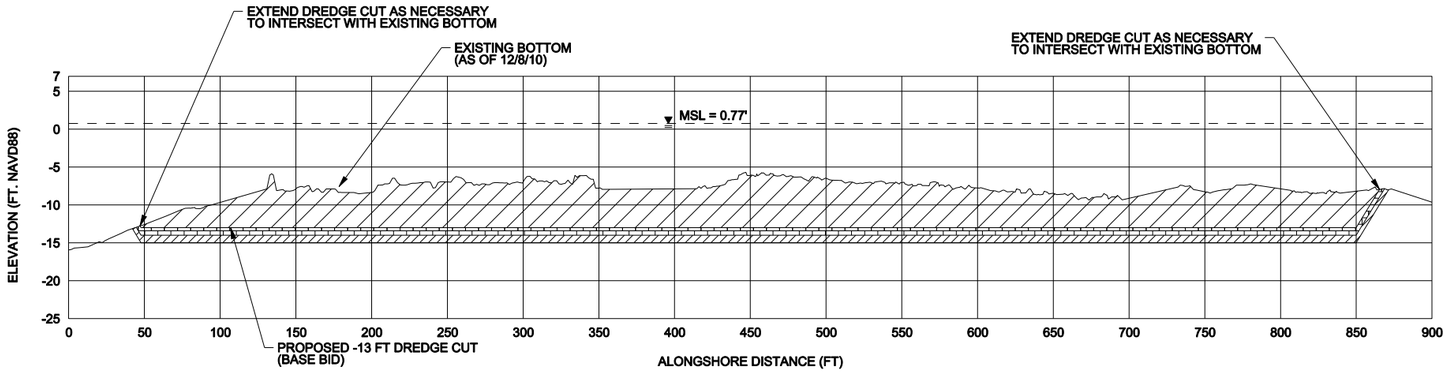
01 DREDGE CUT SECTION

SCALE:H: 1" = 100' V: 1" = 20'



02 DREDGE CUT SECTION

SCALE:H: 1" = 100' V: 1" = 20'



03 DREDGE CUT SECTION

SCALE:H: 1" = 100' V: 1" = 20'

KEY

-13' DEPTH DREDGE (BASE BID)

-14' DEPTH ADDITIONAL DREDGE (BID ADDITIVE 1)

-15' DEPTH ADDITIONAL DREDGE (BID ADDITIVE 2)

NOTES

1. BATHYMETRIC SURVEY COLLECTED 12/7/10 AND 12/8/10 BY LEAP (LPRG:474-1001)
2. HORIZONTAL DATUM IS NAD83 - STATEPLANE TEXAS SOUTH CENTRAL FIPS 4202 (SURVEY FEET) VERTICAL DATUM IS NAVD88 (FEET)
3. MAINTAIN A FIVE (5) FOOT CLEAR DISTANCE FROM THE EXISTING STEEL SHEET PILE BULKHEAD.

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PROPOSED DREDGE CUT CROSS SECTIONS

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DRAWING NO. 474-1001-CST-1006

ISSUE NO. 0

SITE DESCRIPTION

Notes:

(1) The Site Description is accomplished using various sheets, each revealing separate details. This Index Sheet's purpose is to point the user to the appropriate location where the information required by the TPDES CGP can be found.

(2) The project limits shown on the Title Sheet shall also be the limits of coverage of the SW3P.

NATURE OF ACTIVITY: DEMOLITION OF A T HEAD PIER, DREDGING OF ACCUMULATED SEDIMENTS

INTENDED SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
EXTRACTION OF DEBRIS FROM WATERWAY, STORAGE OF DEMOLISHED PIER FOR REMOVAL, REMOVAL OF DAMAGED MATERIALS, PLACEMENT OF DREDGE PIPE AND MACHINERY, DREDGING OPERATIONS

TOTAL AREA OF SITE: 12.25 AREA TO BE DISTURBED: 0.67 ACRES

PRE-CONSTRUCTION RUNOFF CO-EFFICIENT: 0.90

POST-CONSTRUCTION RUNOFF CO-EFFICIENT: 0.90

EXISTING SOIL DESCRIPTION: SOIL TYPE IS SABINE-BAINES COMPLEX. SABINE SOILS ARE LOAMEY AND BAINES ARE CLAY, CLAY LOAM. SURFACE IS HARD PACKED FROM USE AND MIXED WITH ROADBASE

GENERAL LOCATION MAP: SEE TITLE SHEET

RECEIVING WATERS: SEGMENT NUMBER 2411
SEGMENT NAME SABINE PASS

LOCATION OF WETLAND OR SPECIAL AQUATIC SITES: NONE

DRAINAGE PATTERNS: DRAINS TO SWALES FEEDING CULVERTS TO SABINE PASS

TYPICAL AREAS OF SOIL DISTURBANCE: 40' (AVERAGE) FROM EDGE OF BULKHEAD

TYPICAL AREAS WHICH WILL NOT BE DISTURBED: BEYOND 40' (AVERAGE) OF BULKHEAD

LOCATION OF OFF-SITE SURFACE RECEIVING WATERS: NONE

LOCATIONS WHERE STABILIZATION PRACTICES WILL OCCUR:
DOWNHILL SLOPE OF EXISTING SWALE

LOCATIONS OF OFF-SITE STORAGE OF MATERIALS AND EQUIPMENT, WASTE, BORROW: OR DEDICATED MATERIAL PROCESSING PLANTS: N/A

LOCATIONS WHERE STORM WATER DISCHARGES TO SURFACE WATERS: CULVERTS

LOCATION OF POLLUTION CONTROL MEASURES: SEE SW3P LAYOUT 474-1001-CST-1008

CONTROLS

SOIL STABILIZATION PRACTICES

INTERIM:

- [X] TEMPORARY SEEDING
- [ ] MULCHING (Hay or Straw)
- [ ] BUFFER ZONES
- [ ] PRESERVATION OF NATURAL RESOURCES
- [ ] FLEXIBLE CHANNEL LINER
- [ ] OTHER

PERMANENT:

- [X] SEEDING
- [ ] BLOCK SOD
- [ ] OTHER
- [ ] RETENTION BLANKET
- [ ] CHANNEL LINER

STRUCTURAL PRACTICES (T/P)*

- [T] SILT FENCE
- [ ] HAY BALES
- [ ] ROCK BERMS
- [ ] PIPE SLOPE DRAINS
- [ ] CHANNEL LINERS
- [ ] STORM SEWERS
- [ ] STORM INLET SEDIMENT TRAP
- [ ] STONE OUTLET STRUCTURES
- [ ] DIVERSION, INTERCEPTOR, or PERIMETER SWALES
- [ ] DIVERSION, INTERCEPTOR, or PERIMETER DIKES
- [ ] PAVED FLUMES
- [ ] ROCK BEDDING AT CONSTRUCTION EXIT
- [ ] TIMBER MATTING AT CONSTRUCTION EXIT
- [ ] SEDIMENT TRAPS
- [ ] SEDIMENT BASINS
- [ ] CURB and GUTTER
- [ ] VELOCITY CONTROL DEVICES

* T means Temporary - P means Permanent

PERMANENT POST CONSTRUCTION TSS CONTROLS

- [ ] RETENTION / IRRIGATION
- [ ] EXTENDED DETENTION BASINS
- [ ] VEGETATIVE FILTER STRIPS / VEGETATIVE SWALES
- [ ] CONSTRUCTED WETLANDS
- [ ] WET BASINS

OTHER CONTROLS

- [ ] WATERING FOR DUST CONTROLS
- [ ] SEDIMENT REMOVAL FROM ROADWAY (SWEEPING)
- [ ] LOADED TRUCKS WILL BE COVERED WITH TARP

The above indicated practices are proposed to control pollutants in storm water discharges. These practices are based on information contained in TxDOT Storm Water Management Guidelines. The Schedule of implementation of these practices will be based on the intended Sequence of Major Soil Disturbing Activities. Stabilization measures shall be initiated no later than 14 days after construction activity of that portion of the site has temporarily or permanently ceased.

Describe construction and waste materials expected to be stored on site and proposed controls to reduce pollutants from these materials (include storage practices spill prevention and response. ALL WASTE MATERIALS WILL BE DISPOSED OF IN ACCORDANCE WITH ALL STATE LAWS AND REGULATIONS. NO CONSTRUCTION WASTE MATERIAL WILL BE BURIED ON SITE.

Describe pollutant sources from areas other than construction and measures implemented at those sites to minimize pollutant discharges. N/A

Describe measures necessary to protect listed endangered or threatened species, or critical habitat. N/A

INFORMATION

MAINTENANCE:

All erosion and sediment control and other protective measures identified in the SW3P must be maintained in effective operating conditions. If site inspections required by this permit identify BMP's that are not operating effectively, maintenance shall be performed before the next anticipated storm event, or as necessary to maintain the continued effectiveness of storm water controls. If maintenance prior to the next anticipated storm event is unpracticable, maintenance must be scheduled and accomplished as soon as practical.

INSPECTION:

Qualified personnel shall inspect disturbed areas of the construction site that have not been finally stabilized, areas used for storage of materials that are exposed to precipitation, structural control measures, and locations where vehicles enter or exit the site.

Inspection Cycle Option:

- [ ] 1. At least every 14 calendar days or within 24 hrs after 0.5 inches or more of rainfall.
- [X] 2. At least every 7 calendar days.
- [ ] 3. At least monthly (Engineer & DEQC approved revision to SW3P required).

a). Disturbed areas that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Sediment and erosion control measures identified on the SW3P shall be observed to ensure that they are operating correctly. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking. Sediments must be removed from sediment control structures no later than the time that the design capacity has been reduced by 50%.

b). Based on the result of the inspection, the SW3P shall be revised to include (show on Site Map) additional or modified BMP's designed to correct the observed deficiency. Revisions to the SW3P must be completed within seven (7) calendar days following the inspection.

c). A report summarizing the scope, date, name and qualifications of inspector, and major observations relating to the implementation of the SW3P shall be produced and retained as part of the SW3P for 3 years from date of final stabilization.

d). The following records must be maintained and either attached to or referenced in the SW3P, and made readily available upon request to the parties in Part III.D.1 of the CGP: 1). The dates when major grading activities occur: 2). The dates when construction activities temporarily or permanently cease on a portion of the site and: 3). The dates when stabilization measures are initiated.

INSPECTOR PAPERWORK CHECKLIST:

- [ ] Contact Form (1)
- [ ] Notice of Intent (1)(2)
- [ ] SW3P Certification Statement (signed by AE) (2)
- [ ] Delegation of Signature Authority (all Inspectors signing reports) (2)(3)
- [ ] TPDES General Permit (2)(3)
- [ ] Environmental Document (2)
- [ ] Inspection and Maintenance Report (2)(3)
- [ ] Notice of Termination (2)
- [ ] SW3P Plan (2)(3)
- [ ] Inspector Qualification Form (2)(3)
- [ ] Project Diary (2)(3)

(1) The information should be displayed on the Project Bulletin Board.
(2) The information should be a part of the permanent SW3P file maintained at the Area Office.
(3) The information should be maintained at the Field Office.

STORM WATER POLLUTION PREVENTION PLAN is consistent with requirements specified in applicable sediment and erosion site plans or site permits, or storm water management site plans or site permits approved by State, Tribal or local officials (i.e. MS4 Permits).

Any reportable quantity of Hazardous Material release must be reported to the National Response Center at 1-800-424-8802. In addition the Beaumont District "Hazardous Material Spill Information Form" must be completed and mailed to the EPA Regional Office in Dallas, Tx.

A copy of the Construction General Permit is part of the SW3P.

LEAP ENGINEERING
905 Orleans St
Beaumont, Texas 77701
Tel: (409) 813-1862
Fax: (409) 813-1916
Texas Registered Engineering Firm F-2601

STATE OF TEXAS — WILLIAM L. WORSHAM — 83153 — LICENSED PROFESSIONAL ENGINEER

W. L. Worsham, P.E.

WILLIAM L. WORSHAM, P.E. #83153

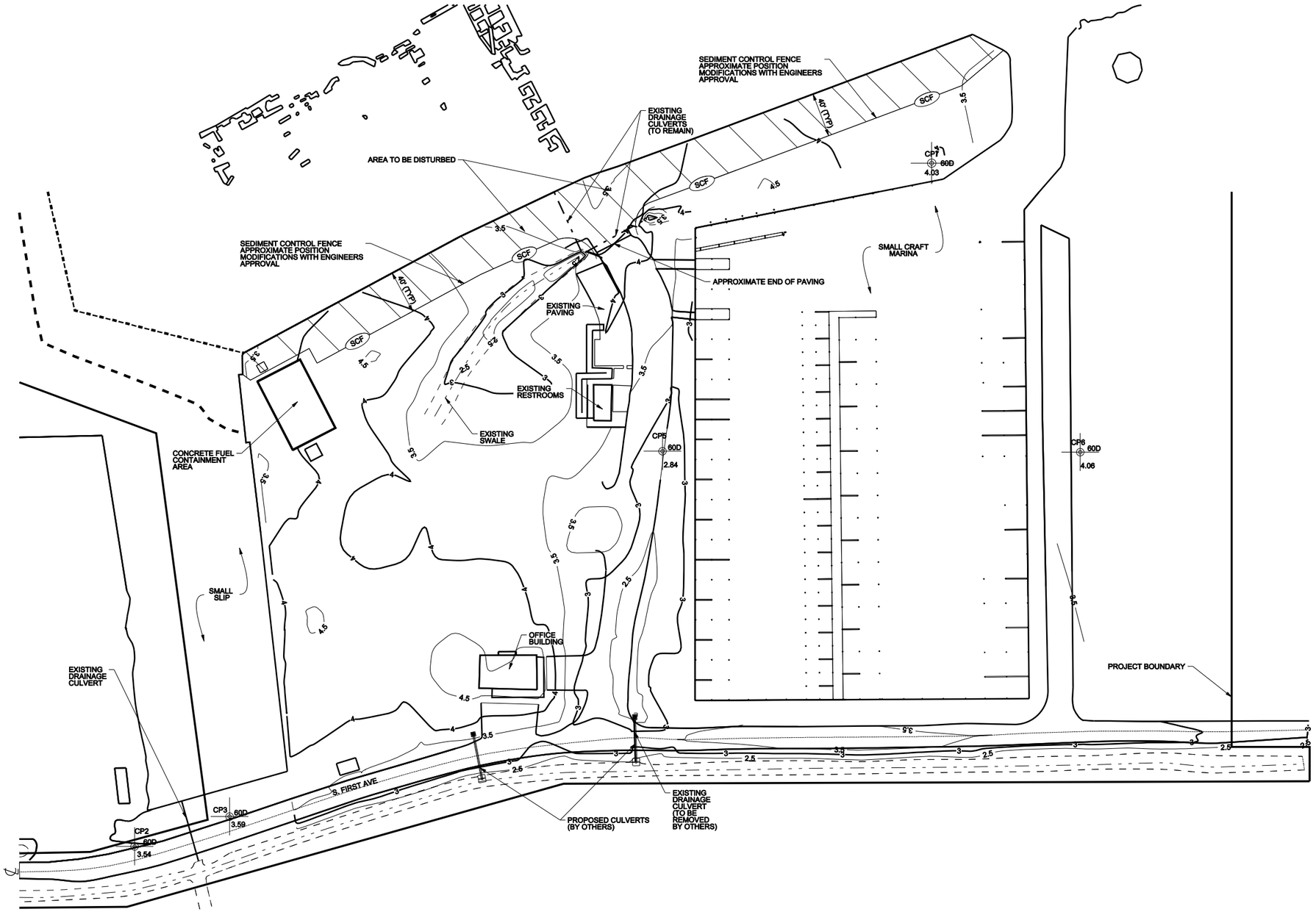
ISSUE	DATE	BY	DESCRIPTION	CHK'D	APP'D
0	10/06/11	JWB	ISSUED FOR CONSTRUCTION	CKW	WLW

SABINE PASS PORT AUTHORITY

SABINE PASS PORT AUTHORITY
TDRA POST-IKE ROUND ONE RECOVERY PROJECT
DEMOLITION AND DREDGING PHASE
SW3P INDEX

DRAWN BY	DATE	SCALE	CHK'D / APP'D
JWB	6OCT11	NTS	CKW / WLW

DRAWING NO. 474-1001-CST-1007 ISSUE NO. 0



01 EXISTING GRADE

SCALE: 1" = 100'

0' 100' 200'

KEY

CONTROL POINT

SCF TEMPORARY SEDIMENT CONTROL FENCE (SEE TXDOT DETAIL EC(1)-93)

NOTES

1. THE LOCATION AND TYPE OF EROSION CONTROL MEASURES SUBJECT TO MODIFICATION THROUGH CONSULTATION WITH ENGINEER AND EXACT CONSTRUCTION METHODOLOGY TO BE EMPLOYED.

2. TOPOGRAPHIC SURVEY DATA OF THE LAYDOWN AREA AND RELEVANT DRAINAGE FEATURES COLLECTED 5/20/10 AND 5/27/10 BY LEAP (LPRG:474-1001)

3. SUPPLEMENTAL TOPOGRAPHIC DATA (NATURAL GROUND, DITCH AND PAVEMENT) COLLECTED DECEMBER 2009 (LPRG:268-1007).
ADDITIONAL DATA (ASPHAULT AND ROCK) COLLECTED OCTOBER 2007 BY LEAP

CONTROL POINTS

POINT	EASTING	NORTHING	ELEVATION
CP2	3591507.04	13850738.52	3.54
CP3	3591594.42	13850719.81	3.59
CP5	3592094.40	13850813.60	2.84
CP6	3592420.32	13850627.96	4.06
CP7	3592432.26	13850919.55	4.03

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W. L. Worsham, P.E.

WILLIAM L. WORSHAM, P.E. #83153

ISSUE	DATE	BY	DESCRIPTION	CHK'D	APP'D
0	10/06/11	JWB	ISSUED FOR CONSTRUCTION	CKW	WLW

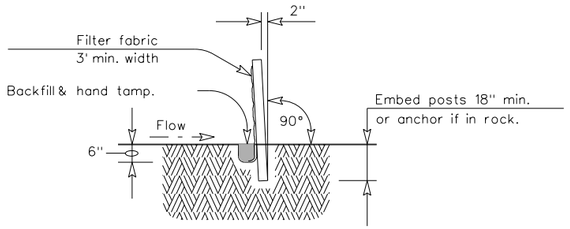
SABINE PASS PORT AUTHORITY

SABINE PASS PORT AUTHORITY
TDRA POST-IKE ROUND ONE RECOVERY PROJECT
DEMOLITION AND DREDGING PHASE
SW3P LAYOUT

DRAWN BY	DATE	SCALE	CHK'D / APP'D	
JWB	6OCT11	1" = 100'	CHK'D	CKW
			APP'D	WLW

DRAWING NO. 474-1001-C-1008

ISSUE NO. 0



SECTION A-A

SEDIMENT CONTROL FENCE USAGE GUIDELINES

A sediment control fence may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A 2 year storm frequency may be used to calculate the flow rate to be filtered.

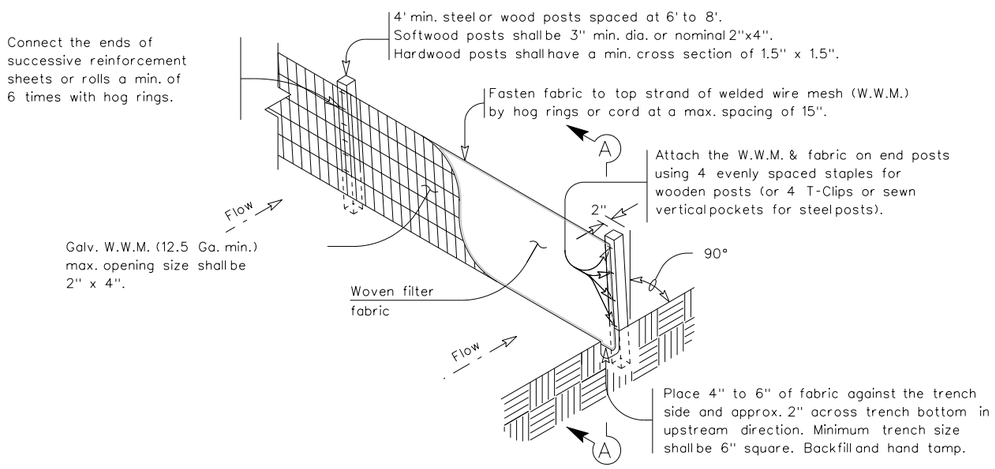
Sediment control fence should be sized to filter a max. flow through rate of 100 GPM/FT^2. Sediment control fence is not recommended to control erosion from a drainage area larger than 2 acres.

PLAN SHEET LEGEND

Sediment Control Fence — SCF

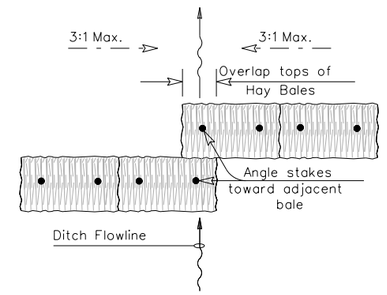
GENERAL NOTES

1. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

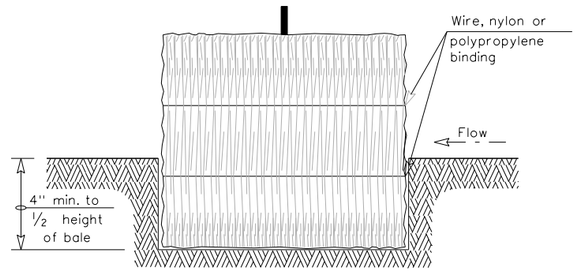


TEMPORARY SEDIMENT CONTROL FENCE

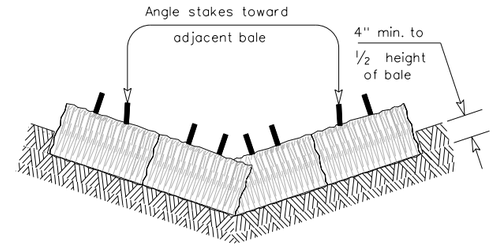
SCF



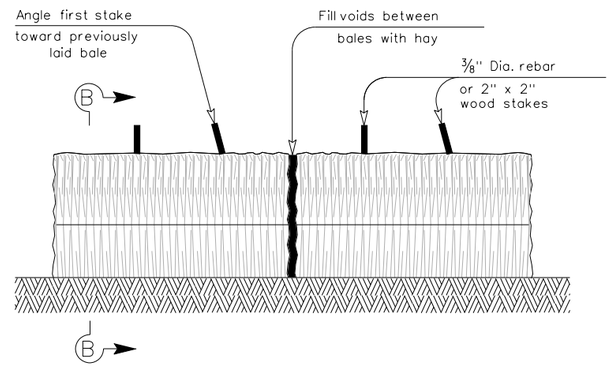
PLAN VIEW



SECTION B-B



PROFILE VIEW



BALED HAY FOR EROSION CONTROL

BH

PLANS SHEET LEGEND

Baled Hay — BH

BALED HAY USAGE GUIDELINES

A Baled Hay installation may be constructed near the downstream perimeter of a disturbed area along a contour to intercept sediment from overland runoff. A two year storm frequency may be used to calculate the flow rate to be filtered. The installation should be sized to filter a maximum flow thru rate of 5 GPM/FT^2 of cross sectional area. Baled hay may be used at the following locations:

1. Where the runoff approaching the baled hay flows over disturbed soil for less than 100'. If the slope of the disturbed soil exceeds 10%, the length of slope upstream the baled hay should be less than 50'.
2. Where the installation will be required for less than 3 months.
3. Where the contributing drainage area is less than ½ acre.

For Baled Hay installations in small ditches, the additional following considerations apply:

1. The ditch sideslopes should be graded as flat as possible to maximize the drainage flowrate thru the hay.
2. The ditch should be graded large enough to contain the overtopping drainage when sediment has filled to the top of the baled hay.

Bales should be replaced usually every 2 months or more often during wet weather when loss of structural integrity is accelerated.

GENERAL NOTES

1. Hay bales shall be a minimum of 30" in length and weigh a minimum of 50 Lbs.
2. Hay bales shall be bound by either wire or nylon or polypropylene string. The bales shall be composed entirely of vegetative matter.
3. Hay bales shall be embedded in the soil a minimum of 4" and where possible ½ the height of the bale.
4. Hay bales shall be placed in a row with ends tightly abutting the adjacent bales. The bales shall be placed with bindings parallel to the ground.
5. Hay bales shall be securely anchored in place with ⅜" Dia. rebar or 2" x 2" wood stakes, driven through the bales. The first stake shall be angled towards the previously laid bale to force the bales together.
6. The guidelines shown hereon are suggestions only and may be modified by the Engineer.

LEVELS DISPLAYED

1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	

Texas Department of Transportation
Design Division (Roadway)

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES

FENCED & BALED HAY

EC(1)-93

FILE: EC193.DGN	DN: HEJ	CK: HEJ	DW: BGD	CK:	
©TxDOT JUNE 1993	DISTRICT	FEDERAL AID PROJECT			SHEET
REVISIONS		LE JOB NO. 474-1001			1009
	COUNTY		CONTROL	SECT	JOB	HIGHWAY