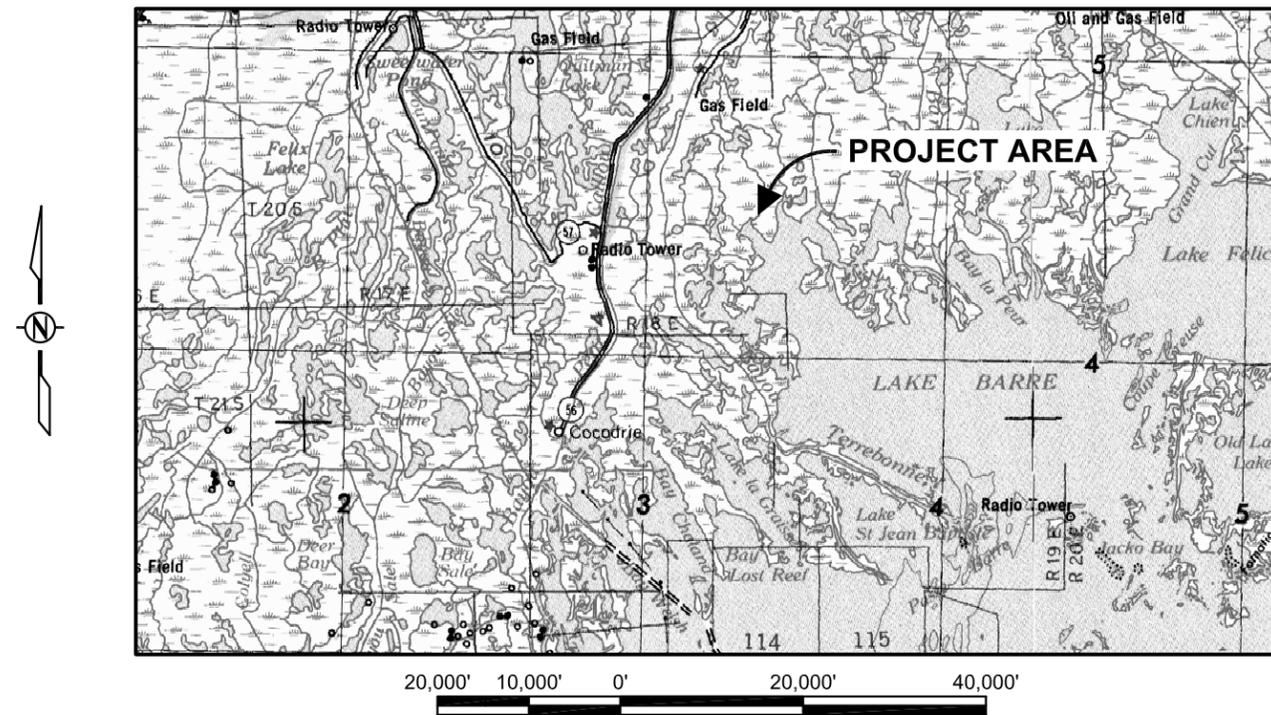
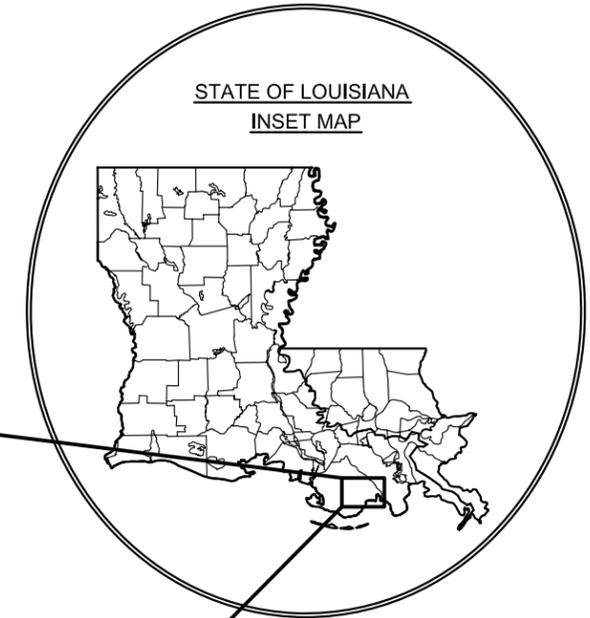


STATE OF LOUISIANA
DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

INDEX TO SHEETS

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1	TITLE SHEET
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6	REACH A AND B LAYOUTS
7	REACH E LAYOUT
8	ONSHORE ARMOR UNIT DETAILS
9	ONSHORE GABION MAT UNIT DETAILS
10	FORESHORE TRIANGULAR UNIT DETAILS
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TERREBONNE BAY SHORE PROTECTION
DEMONSTRATION PROJECT
TE-45
TERREBONNE PARISH, LOUISIANA



FEDERAL
PROJECT
SPONSOR

STATE
PROJECT
SPONSOR

CED DIRECTOR

CED ENGINEER MANAGER

CED PROJECT ENGINEER

AS-BUILT

TYPE OF CONSTRUCTION

CLASSIFICATION III (HEAVY CONSTRUCTION)
SHORE PROTECTION

				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT		TITLE SHEET	
						STATE PROJECT NUMBER: TE-45			
						FEDERAL PROJECT NUMBER:		DATE: FEBRUARY 2007	
				DRAWN BY: KRISTI CANTU		DESIGNED BY: DAIN GILLEN, E.I.		APPROVED BY: MAURY CHATELLIER, P.E.	
REV.	DATE	DESCRIPTION	BY	SHEET 1 OF 25					
	4/18/08	AS-BUILT DETAILS ADDED	TBS						

GENERAL NOTES

1. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88). ALL HORIZONTAL COORDINATES ARE GIVEN IN THE NORTH AMERICAN DATUM OF 1983 (NAD 83).
2. BENCHMARK TE-45-SM-01 HAS BEEN ESTABLISHED AT THE SITE BY THE OWNER. SEE SHEET 3 FOR BENCHMARK LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE TO ESTABLISH AND MAINTAIN TEMPORARY BENCHMARKS DURING CONSTRUCTION AS NEEDED.
3. ELEVATIONS SHOWN ON PLANS ARE BASED ON SURVEYS PERFORMED BETWEEN JUNE 23, 2002 AND JULY 6, 2002 BY MORRIS P. HERBERT, INC.
4. CONTRACTOR SHALL VISIT THE SITE OF WORK TO BECOME FAMILIAR WITH THE LOCAL CONDITIONS AND WHAT EFFECTS THE CONDITIONS MAY HAVE ON ACCESS AND CONSTRUCTION.
5. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, EXISTING ELEVATIONS AND CONDITIONS SHOWN ON THE DRAWINGS PRIOR TO ORDERING MATERIAL, COMMENCEMENT OF CONSTRUCTION, AND PREPARATION OF SHOP DRAWINGS. ENGINEER SHALL BE NOTIFIED OF ALL DISCREPANCIES.
6. THE CONTRACTOR SHALL MAKE HIS OWN INTERPRETATION OF THE CHARACTER AND CONDITION OF THE MATERIALS WHICH WILL BE ENCOUNTERED BETWEEN THE BORING LOCATIONS. THE CONTRACTOR, AT HIS OWN EXPENSE, MAY MAKE ADDITIONAL SURVEYS AND INVESTIGATIONS AS HE DEEMS NECESSARY TO DETERMINE CONDITIONS WHICH WILL AFFECT PERFORMANCE OF THE WORK.
7. THE LOCATIONS OF THE STRUCTURES SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL PROVIDE ALL SURVEY PERSONNEL AND EQUIPMENT NECESSARY TO LAY OUT THE STRUCTURES AT THE BEGINNING OF CONSTRUCTION.
8. LOCATION OF UTILITIES INDICATED ON THE DRAWINGS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE BASED IN PART ON INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING UTILITY LOCATIONS PRIOR TO CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING UTILITIES CAUSED BY THE CONTRACTOR'S NEGLIGENCE. THE DAMAGE SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
10. FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL CALL LOUISIANA ONE CALL AT 1-800-272-3020 TO LOCATE ANY UTILITY OR PIPELINES IN THE AREA WHICH MAY BE UNKNOWN TO THE OWNER. ADDITIONALLY, THE CONTRACTOR SHALL PERFORM A MAGNETOMETER SURVEY WITHIN THE CONSTRUCTION AREA AND WHERE THE STRUCTURES ARE TO BE LOCATED. FURTHERMORE, CONTRACTOR SHALL NOTIFY CHEVRONTEXACO A MINIMUM OF 14 DAYS PRIOR TO ACCESSING THE SITE AT (985) 758-0230 OR (504) 247-3383, ATTENTION SHANNON MONTGOMERY, TO HAVE THE PIPELINE IN THE PROJECT AREA PROPERLY MARKED PRIOR TO MOBILIZATION.
11. ALL PIPELINES WITHIN THE PROJECT AREA SHALL BE CLEARLY MARKED WITH BUOYS BY THE CONTRACTOR. THE CONTRACTOR SHALL MAINTAIN BUOYS DURING CONSTRUCTION OR HAVE ADEQUATE NAVIGATIONAL EQUIPMENT ON THE DREDGE TO AVOID DREDGING IN RESTRICTED AREAS. THE CONTRACTOR SHALL NOT ANCHOR OR EXCAVATE WITHIN 100 FEET OF ANY PIPELINE.
12. ALL STRUCTURAL STEEL SHALL BE ASTM A-36, UNLESS OTHERWISE NOTED.
13. ALL WELDING SHALL BE ELECTRIC WELDING. WORKMANSHIP AND TECHNIQUE, WHERE APPLICABLE, SHALL CONFORM TO THE AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE.
14. WELDING SYMBOLS SHOWN ARE THOSE ADOPTED BY THE AMERICAN WELDING SOCIETY AND INDICATE ONLY SIZE AND TYPE OF WELDS REQUIRED. DETAILED INFORMATION SHALL BE SHOWN ON THE SHOP DRAWINGS AND SUBMITTED BY THE CONTRACTOR FOR APPROVAL.
15. STRUCTURAL STEEL FABRICATION AND ERECTION SHALL CONFORM TO THE A.I.S.C. MANUAL OF STEEL CONSTRUCTION LATEST EDITION UNLESS NOTED OTHERWISE.
16. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI UNLESS OTHERWISE SPECIFIED.
17. TIE-IN UNITS CONNECT THE ONSHORE UNITS WITH THE FORESHORE UNITS. TIE-IN UNITS MAY CONSIST OF THE FORESHORE TRIANGULAR UNIT OR ONSHORE ARMOR UNIT WITH A GEOGRID AND CRUSHED STONE FOUNDATION BASE. ALL TIE-IN STRUCTURES SHALL BE OF THE SAME TYPE FOR THE ENTIRE PROJECT. THE TOP OF ALL TIE-IN UNITS MUST BE AT ELEVATION +1.0' NAVD 88.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MOBILIZING, COMPLETING THE REQUIRED CONSTRUCTION ACTIVITIES, AND DEMOBILIZING WITHOUT CROSSING OR OTHERWISE IMPACTING UNACQUIRED OYSTER LEASES SHOWN ON SHEET 3.

SUMMARY OF ESTIMATED QUANTITIES

ITEM No.	DESCRIPTION	UNIT	ESTIMATED QUANTITY	AS-BUILT QUANTITY
1	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	1	1
2	SURVEYING	LUMP SUM	1	1
3	ONSHORE ARMOR UNIT	LINEAR FOOT	900	900
4	ONSHORE GABION MAT UNIT	LINEAR FOOT	900	900
5	FORESHORE TRIANGULAR UNIT	LINEAR FOOT	900	900
6	TIE-DOWN ANCHOR	EACH	186	186
7	FOUNDATION BASE GEOTEXTILE GEOGRID	SQ. YARD	2200	2200
8	FOUNDATION BASE CRUSHED STONE	TON	500	645
9	TIE-IN UNIT*	LINEAR FOOT	790	790
10	PERMANENT WARNING SIGN	EACH	6	6

NOTES:

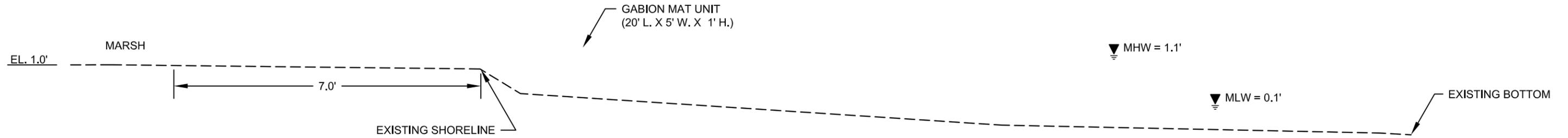
1. APPROXIMATELY 180 GABION MAT UNITS, 1470 ARMOR UNITS WITH 93 ANCHORS, AND 180 TRIANGULAR UNITS WITH 93 ANCHORS WILL BE PLACED.
2. THE TIE-IN UNITS WILL REQUIRE APPROXIMATELY 85 ANCHORS. THE AMOUNT OF GEOTEXTILE GEOGRID AND CRUSHED STONE REQUIRED FOR THE TIE-IN UNITS WILL VARY DEPENDING ON WHAT TYPE OF TIE-IN UNIT IS CHOSEN.
- *3. TIE-IN UNITS SHALL CONSIST OF THE CHOSEN TYPE OF STRUCTURE, FOUNDATION BASE GEOTEXTILE GEOGRID, FOUNDATION BASE CRUSHED STONE, AND ANCHOR SYSTEM. BIDS PLACED ON TIE-IN UNITS SHALL INCLUDE THE ASSOCIATED COST FOR ALL OF THE ABOVE MATERIALS.

AS- BUILT NOTES:

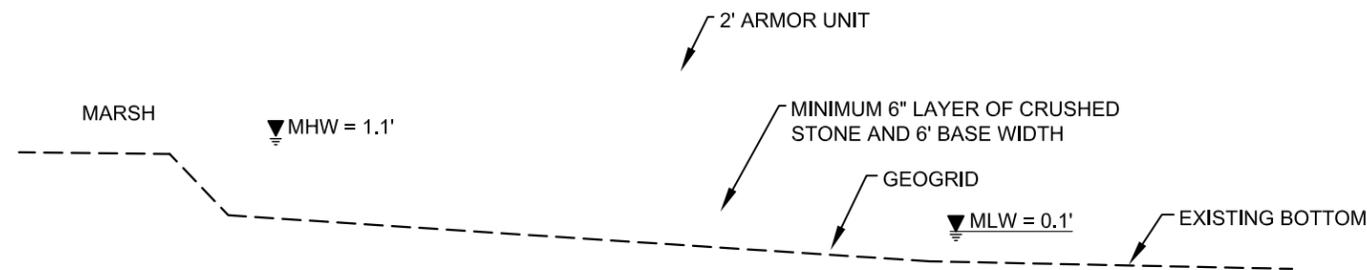
1. ONSHORE ARMOR UNITS WAS SELECTED AND USED BY THE CONTRACTOR AS THE TIE-IN UNIT.

AS-BUILT

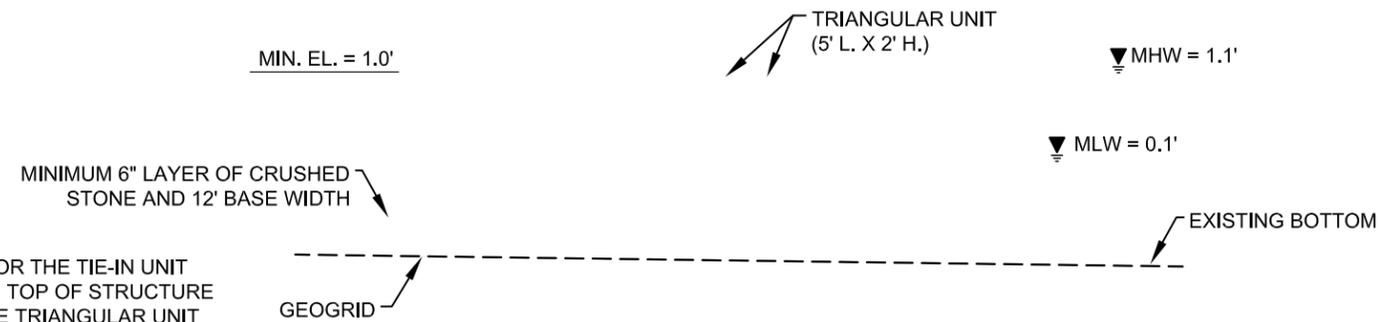
				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT STATE PROJECT NUMBER: TE-45 FEDERAL PROJECT NUMBER:	GENERAL NOTES DATE: FEBRUARY 2007
4/18/08	AS-BUILT DETAILS ADDED	TBS	DRAWN BY: KRISTI CANTU	DESIGNED BY: DAIN GILLEN, E.I.	APPROVED BY: MAURY CHATELLIER, P.E.	SHEET 2 OF 25
REV.	DATE	DESCRIPTION	BY			



TYPICAL ONSHORE GABION MAT UNIT
NOT TO SCALE



TYPICAL ONSHORE ARMOR UNIT
NOT TO SCALE



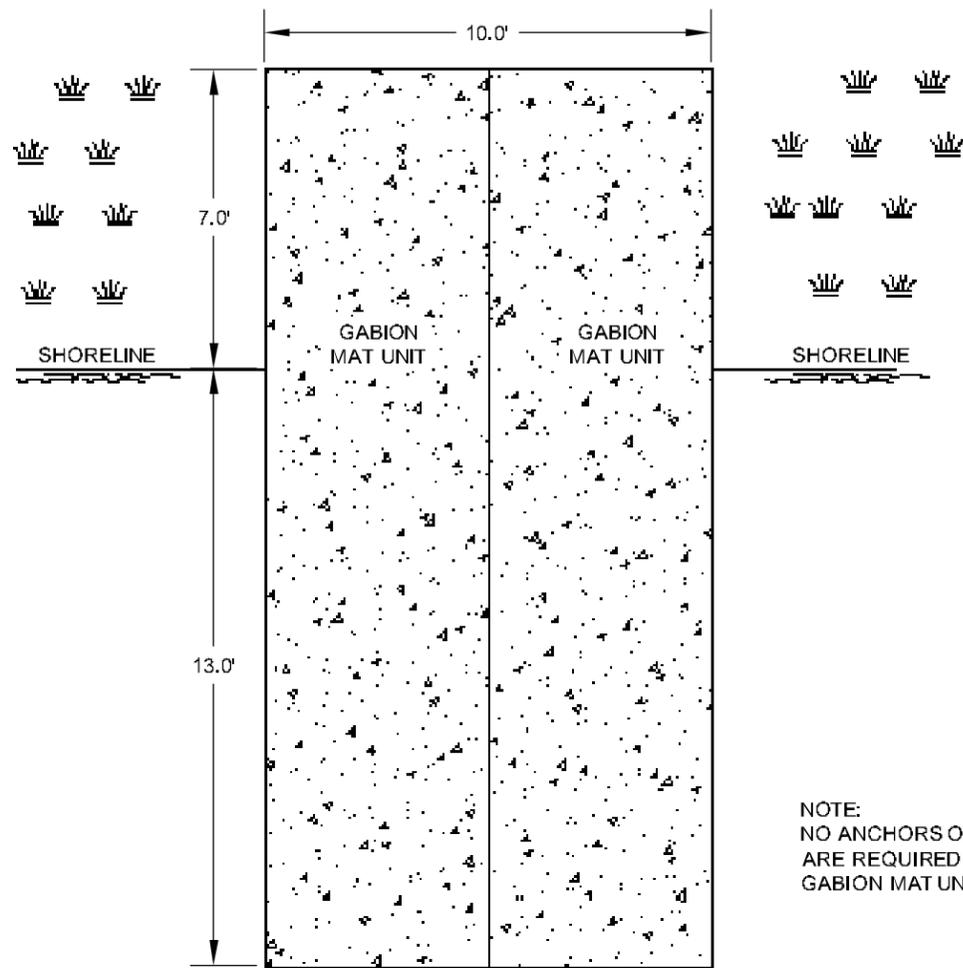
TYPICAL FORESHORE TRIANGULAR UNIT
NOT TO SCALE

- NOTES:
1. THE CONTRACTOR WILL SELECT ONLY ONE TYPE OF STRUCTURE FOR THE TIE-IN UNIT FOR THE ENTIRE PROJECT. TIE-IN UNITS MUST ACHIEVE A MINIMUM TOP OF STRUCTURE ELEVATION OF +1.0'. TIE-IN UNITS MAY CONSIST OF THE FORESHORE TRIANGULAR UNIT OR THE ONSHORE ARMOR UNIT WITH A GEOGRID AND CRUSHED STONE FOUNDATION BASE. GABION MAT UNITS WILL NOT BE ALLOWED AS TIE-IN UNITS.
 2. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS.

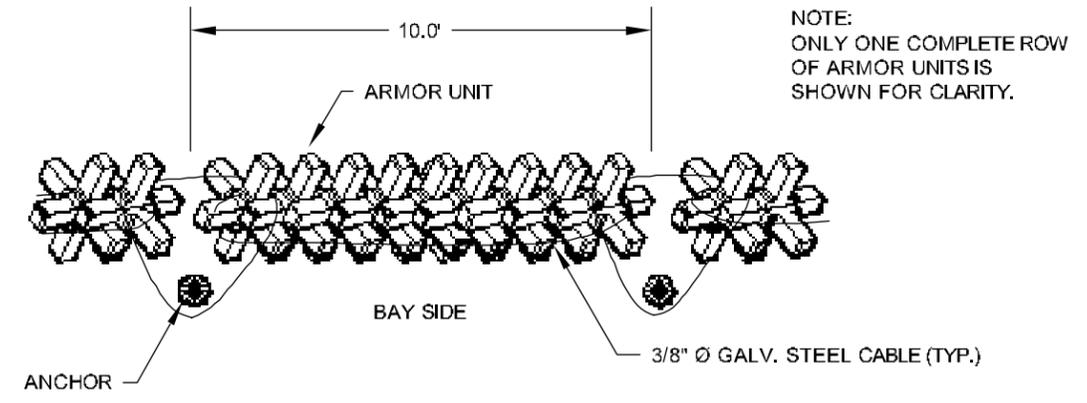
- AS-BUILT NOTES:
1. THE ONSHORE ARMOR UNIT WAS SELECTED AND USED BY CONTRACTOR AS THE TIE-IN UNIT.

AS-BUILT

				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	TYPICAL UNIT PROFILES
					STATE PROJECT NUMBER: TE-45	
					FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
REV.	DATE	DESCRIPTION	BY	DRAWN BY: KRISTI CANTU	DESIGNED BY: DAIN GILLEN, E.I.	APPROVED BY: MAURY CHATELLIER, P.E.
	4/18/08	AS-BUILT DETAILS ADDED	TBS			SHEET 4 OF 25

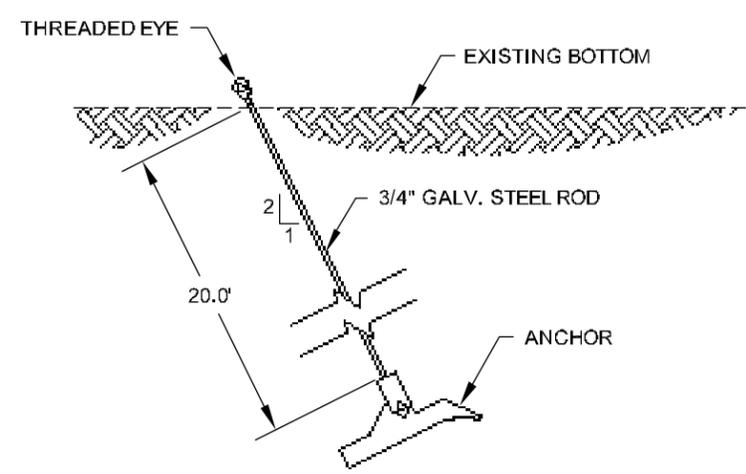


GABION UNIT DETAIL
NOT TO SCALE

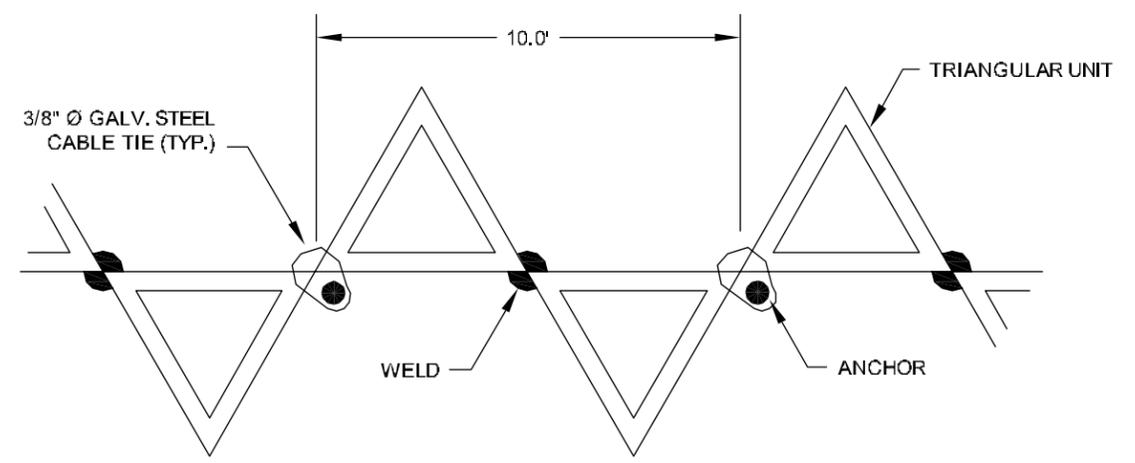


ARMOR UNIT DETAIL
NOT TO SCALE

NOTE:
ONLY ONE COMPLETE ROW
OF ARMOR UNITS IS
SHOWN FOR CLARITY.

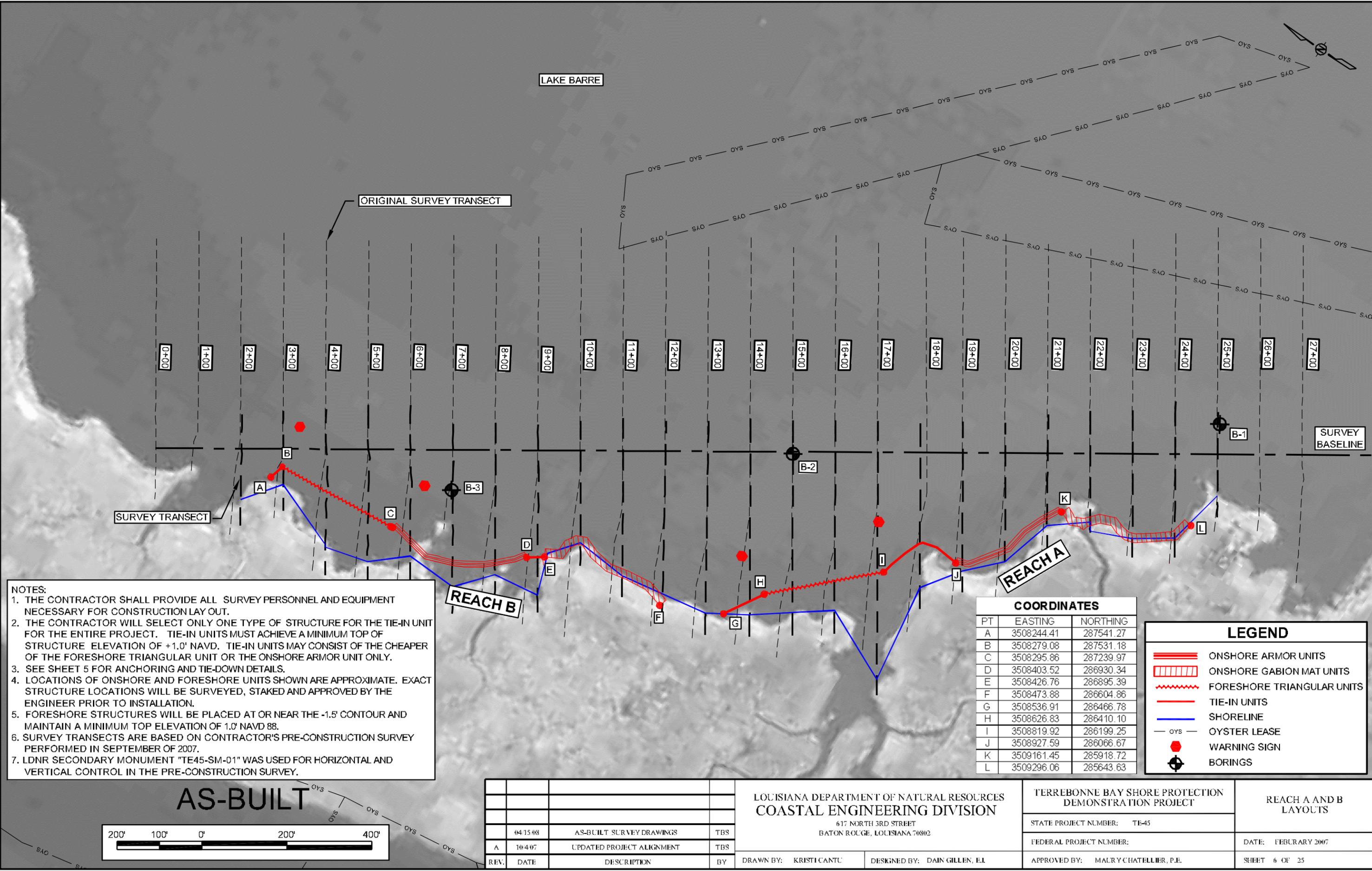


AS-BUILT TYPICAL ANCHOR DETAIL
NOT TO SCALE



TRIANGULAR UNIT DETAIL
NOT TO SCALE

				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	ANCHORING AND TIE-DOWN DETAILS
					STATE PROJECT NUMBER: TE-45	
					FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
REV.	DATE	DESCRIPTION	BY	DRAWN BY: KRISTI CANTU	DESIGNED BY: DAIN GILLEN, E.I.	APPROVED BY: MAURY CHATELIER, P.E.
	4/18/08	AS-BUILT DETAILS ADDED	TBS			SHEET 5 OF 25

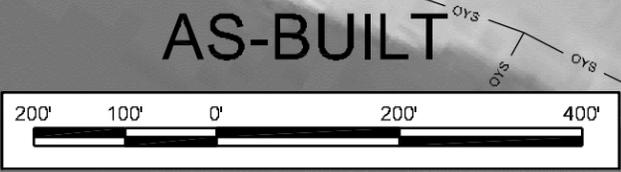


NOTES:

1. THE CONTRACTOR SHALL PROVIDE ALL SURVEY PERSONNEL AND EQUIPMENT NECESSARY FOR CONSTRUCTION LAY OUT.
2. THE CONTRACTOR WILL SELECT ONLY ONE TYPE OF STRUCTURE FOR THE TIE-IN UNIT FOR THE ENTIRE PROJECT. TIE-IN UNITS MUST ACHIEVE A MINIMUM TOP OF STRUCTURE ELEVATION OF +1.0' NAVD. TIE-IN UNITS MAY CONSIST OF THE CHEAPER OF THE FORESHORE TRIANGULAR UNIT OR THE ONSHORE ARMOR UNIT ONLY.
3. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS.
4. LOCATIONS OF ONSHORE AND FORESHORE UNITS SHOWN ARE APPROXIMATE. EXACT STRUCTURE LOCATIONS WILL BE SURVEYED, STAKED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
5. FORESHORE STRUCTURES WILL BE PLACED AT OR NEAR THE -1.5' CONTOUR AND MAINTAIN A MINIMUM TOP ELEVATION OF 1.0' NAVD 88.
6. SURVEY TRANSECTS ARE BASED ON CONTRACTOR'S PRE-CONSTRUCTION SURVEY PERFORMED IN SEPTEMBER OF 2007.
7. LDNR SECONDARY MONUMENT "TE45-SM-01" WAS USED FOR HORIZONTAL AND VERTICAL CONTROL IN THE PRE-CONSTRUCTION SURVEY.

COORDINATES		
PT	EASTING	NORTHING
A	3508244.41	287541.27
B	3508279.08	287531.18
C	3508295.86	287239.97
D	3508403.52	286930.34
E	3508426.76	286895.39
F	3508473.88	286604.86
G	3508536.91	286466.78
H	3508626.83	286410.10
I	3508819.92	286199.25
J	3508927.59	286066.67
K	3509161.45	285918.72
L	3509296.06	285643.63

LEGEND	
	ONSHORE ARMOR UNITS
	ONSHORE GABION MAT UNITS
	FORESHORE TRIANGULAR UNITS
	TIE-IN UNITS
	SHORELINE
	OYSTER LEASE
	WARNING SIGN
	BORINGS



REV.	DATE	DESCRIPTION	BY
	04/15/08	AS-BUILT SURVEY DRAWINGS	TBS
A	10/4/07	UPDATED PROJECT ALIGNMENT	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
 617 NORTH 3RD STREET
 BATON ROUGE, LOUISIANA 70802

DRAWN BY: KRISTI CANTU DESIGNED BY: DAIN GILLEN, E.I.

TERREBONNE BAY SHORE PROTECTION
 DEMONSTRATION PROJECT

STATE PROJECT NUMBER: TH-45

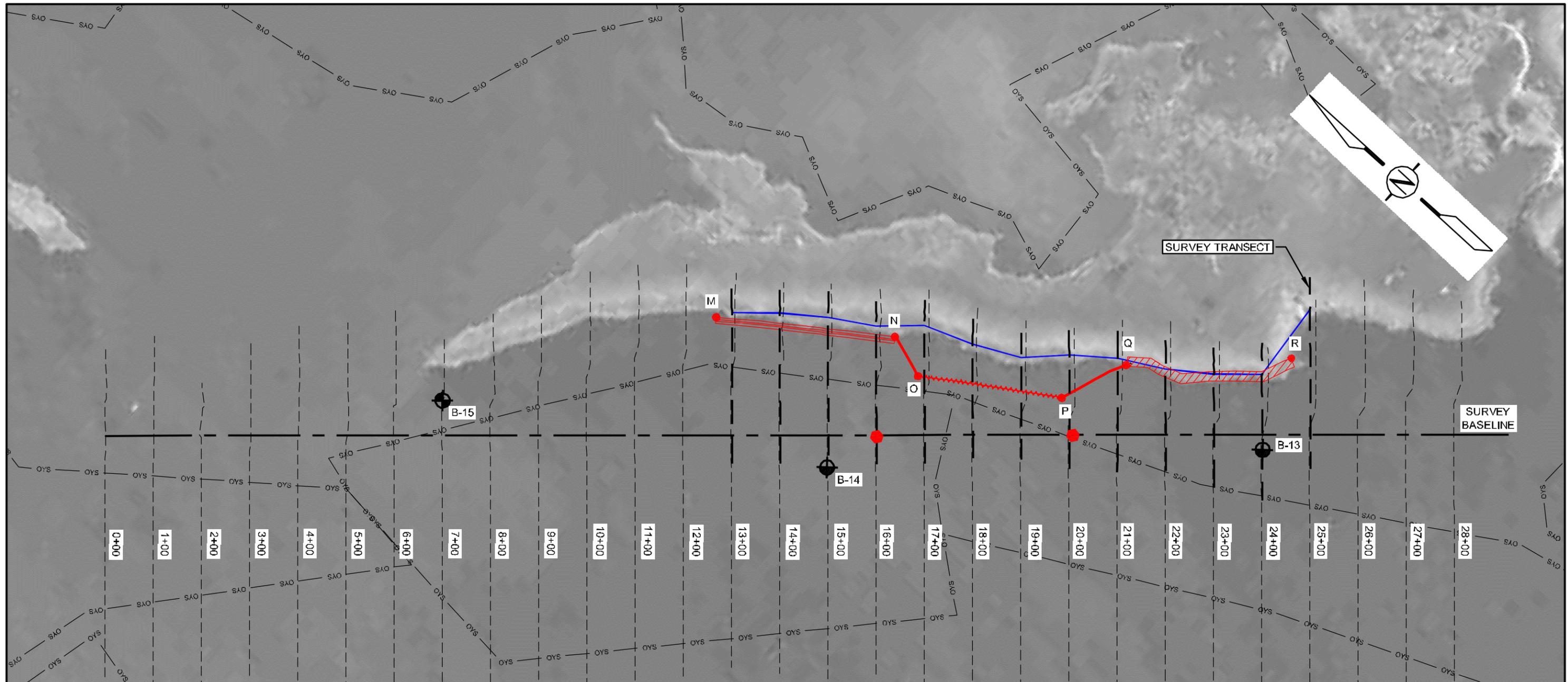
FEDERAL PROJECT NUMBER:

APPROVED BY: MAURY CHATELIER, P.E.

REACH A AND B
 LAYOUTS

DATE: FEBRUARY 2007

SHEET 6 OF 25



- NOTES:**
1. THE CONTRACTOR SHALL PROVIDE ALL SURVEY PERSONNEL AND EQUIPMENT NECESSARY FOR CONSTRUCTION LAY OUT.
 2. THE CONTRACTOR WILL SELECT ONLY ONE TYPE OF STRUCTURE FOR THE TIE-IN UNIT FOR THE ENTIRE PROJECT. TIE-IN UNITS MUST ACHIEVE A MINIMUM TOP OF STRUCTURE ELEVATION OF +1.0' NAVD. TIE-IN UNITS MAY CONSIST OF THE FORESHORE TRIANGULAR UNIT OR THE ONSHORE ARMOR UNIT ONLY.
 3. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS.
 4. LOCATIONS OF ONSHORE AND FORESHORE UNITS SHOWN ARE APPROXIMATE. EXACT STRUCTURE LOCATIONS WILL BE SURVEYED, STAKED AND APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
 5. FORESHORE STRUCTURES WILL BE PLACED AT OR NEAR THE -1.5' CONTOUR AND MAINTAIN A MINIMUM TOP ELEVATION OF 1.0' NAVD 88.
 6. SURVEY TRANSECTS ARE BASED ON CONTRACTOR'S PRE-CONSTRUCTION SURVEY PERFORMED IN SEPTEMBER OF 2007.
 7. LDNR SECONDARY MONUMENT "TE45-SM-01" WAS USED FOR HORIZONTAL AND VERTICAL CONTROL IN THE PRE-CONSTRUCTION SURVEY.

LEGEND	
	ONSHORE ARMOR UNITS
	ONSHORE GABION MAT UNITS
	FORESHORE TRIANGULAR UNITS
	TIE-IN UNITS
	SHORELINE
	OYSTER LEASE
	WARNING SIGN
	BORINGS

COORDINATES		
PT	EASTING	NORTHING
M	3524328.07	294463.64
N	3524551.18	294164.68
O	3524524.21	294074.49
P	3524694.70	293825.40
Q	3524850.02	293772.90
R	3525079.67	293533.19

AS-BUILT



REV.	DATE	DESCRIPTION	BY
A	10-4-07	UPDATED PROJECT ALIGNMENT	TBS
	4-15-08	AS-BUILT SURVEY DRAWINGS	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
 617 NORTH 3RD STREET
 BATON ROUGE, LOUISIANA 70802

DRAWN BY: KRISTI CANTU DESIGNED BY: DAIN GILLEN, E.I.

TERREBONNE BAY SHORE PROTECTION
 DEMONSTRATION PROJECT

STATE PROJECT NUMBER: TH-45

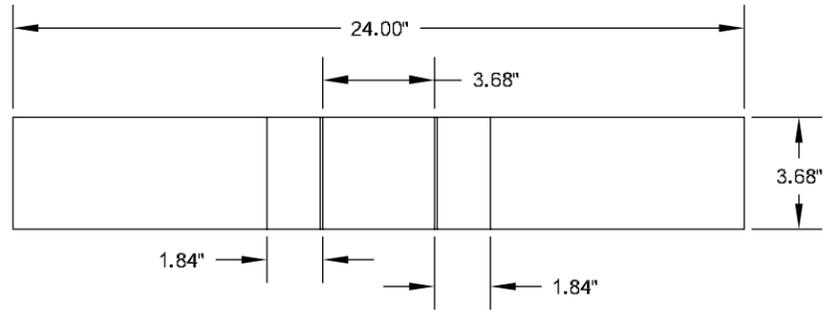
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APPROVED BY: MAURY CHATELIER, P.E.

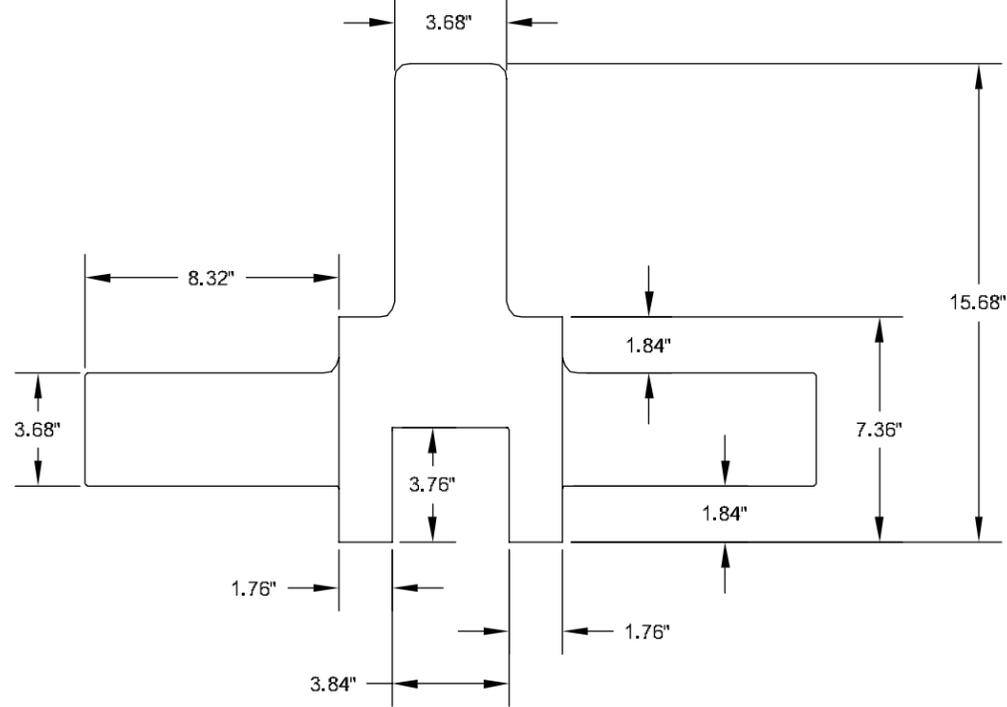
REACH E LAYOUT

DATE: FEBRUARY 2007

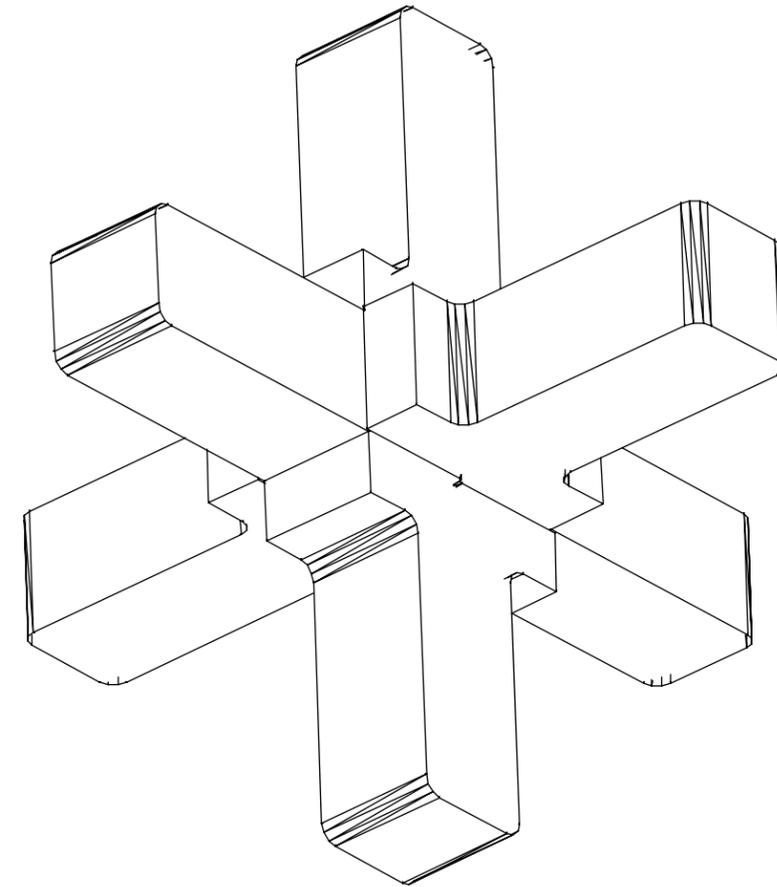
SHEET 7 OF 25



TOP
SCALE: 1" = 6"



FRONT
SCALE: 1" = 6"



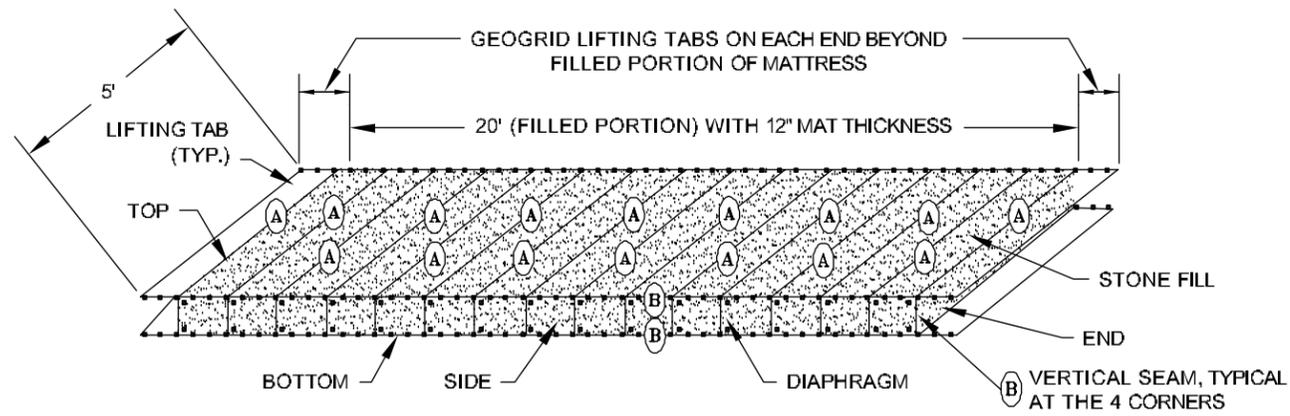
ARMOR UNIT
NOT TO SCALE

NOTES:

1. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
2. ADHESIVE SHALL BE USED TO JOIN ALL HALVES TO FORM A SINGLE UNIT.
3. IF CONTRACTOR SELECTS ARMOR UNIT AS HIS TIE-IN UNIT, THE TOP OF THE ARMOR UNIT MUST BE AT A MINIMUM ELEVATION OF +1.0' NAVD.
4. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS.

AS-BUILT

				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT		ONSHORE ARMOR UNIT DETAILS	
						STATE PROJECT NUMBER: TE45			
						FEDERAL PROJECT NUMBER:		DATE: FEBRUARY 2007	
				DRAWN BY: KRISTI CANTU		DESIGNED BY: DAIN GILLEN, E.I.		APPROVED BY: MAURY CHATELIER, P.E.	
REV.	DATE	DESCRIPTION	BY					SHEET 8 OF 25	
	4/18/08	AS-BUILT DETAILS ADDED	TBS						



- (A) INDICATES BODKIN CONNECTION USING 3/8" DIAMETER HDPE BODKIN ROD
- (B) INDICATES BRAIDED SEAM USING 3/16" DIAMETER HIGH UV HDPE BRAID

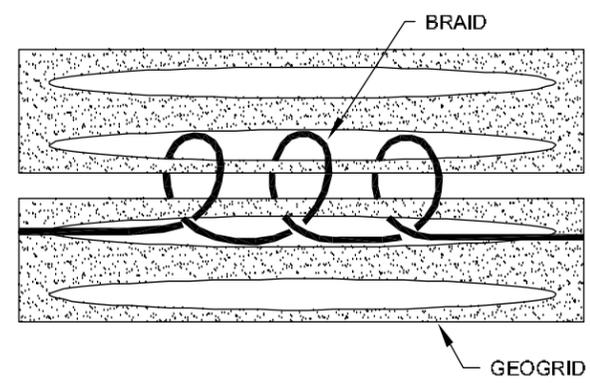
TYPICAL CONFIGURATION OF FILLED GABION MAT UNITS
SCALE: NOT TO SCALE

CONSTRUCTION NOTES:

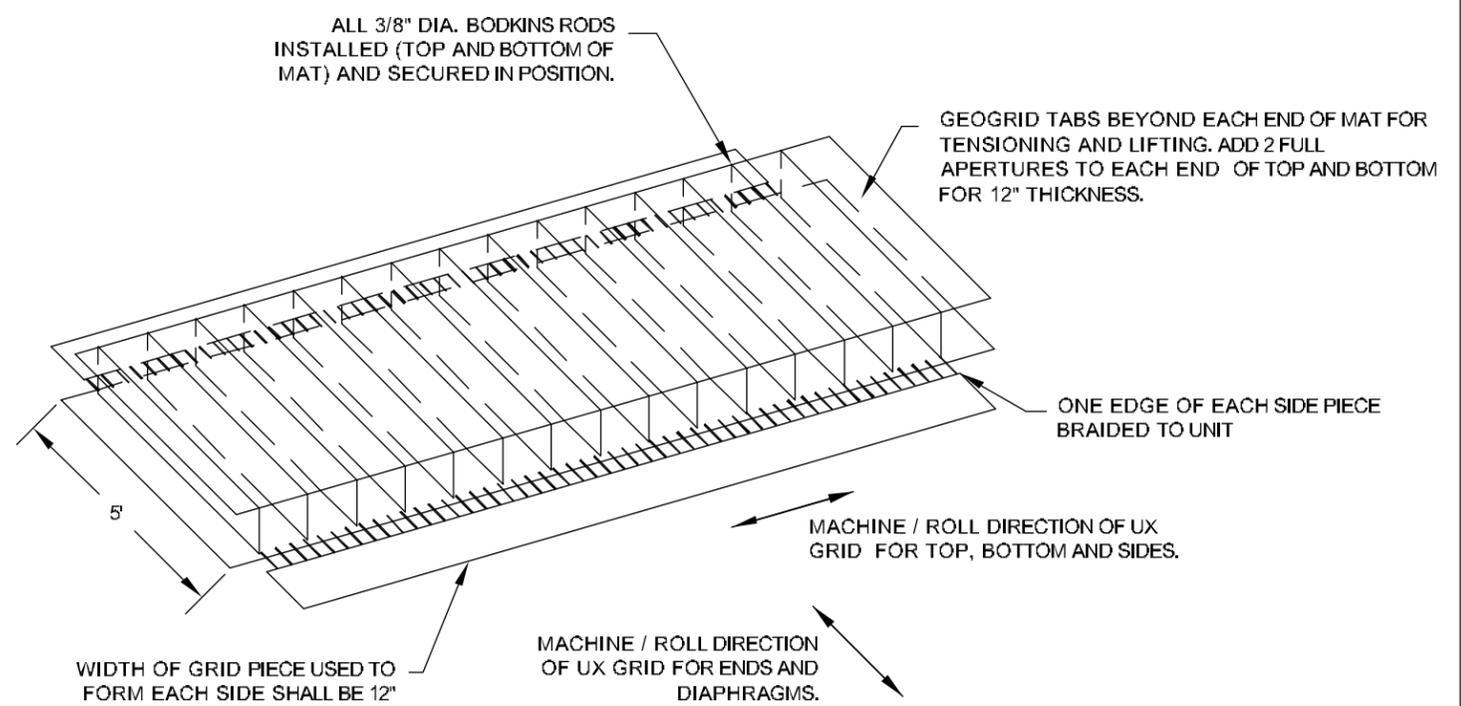
1. ENDS, TOP, BOTTOM, SIDES AND ANY EXTRA LENGTH USED FOR LIFTING OR ANCHORING PURPOSES SHALL BE COMPOSED OF TENSAR UXTRITON200 GEOGRID, PLASTIC CABLES TIES MAY BE USED TO SECURE BODKIN CONNECTORS IN POSITION PRIOR TO TENSIONING OR FILLING OF MAT UNITS.
2. INTERNAL DIAPHRAGMS SHALL BE COMPOSED OF TENSAR UXTRITON100 GEOGRID.
3. GABION MAT SHALL BE FILLED WITH ASTM CLASS #1 STONE, OR ENGINEER APPROVED EQUIVALENT.
4. NOMINAL WIDTH: 5 FT. (FILLED)
5. NOMINAL THICKNESS: 12 IN. (FILLED)
6. NOMINAL WEIGHT: 9000 LBS. (20' X 5' X 12")

SEAM NOTES:

1. ALL CUT ENDS OF BRAID MATERIAL SHALL BE KNOTTED WITHIN 1/2" TO 2" OF THE END TO PREVENT RAVELING OF BRAID.
2. THE BRAID SHALL BE SECURELY KNOTTED TO THE GEOGRID AT ALL ENDS OF ALL BRAIDED SEAMS. THE BRAID SHALL BE KNOTTED WHEN SPLICING TO THE NEXT PIECE OF BRAID, OR WHEN SECURING IT TO THE GEOGRID. AT ALL ENDS, EACH BRAIDED SEAM SHALL BE CONTINUOUS, WITH SECURELY KNOTTED SPLICES ALLOWED. THE BRAID SHALL BE SECURELY KNOTTED TO THE GEOGRID AT A SPACING NOT TO EXCEED 6 FT ALONG ANY SEAM.
3. THE BRAID SHALL BE STITCHED THROUGH EACH PAIR OF APERTURES ALONG THE SEAM AT LEAST ONCE, AND THE MINIMUM NUMBER OF STITCHES PER FOOT ALONG THE SEAM SHALL BE SIX (6). THE SPACING OF STITCHES ALONG EACH SEAM SHALL BE REASONABLY UNIFORM.
4. ALL KNOTS SHALL BE TIED IN A MANNER TO PREVENT SLIPPING AND CINCHING. THE WRAPS ALONG THE SEAM SHALL BE SUFFICIENTLY TIGHT TO CLOSE THE GAP BETWEEN THE ADJACENT PIECES OF GEOGRID, BUT SHALL NOT BE OVER-TIGHTENED SUCH THAT THE GEOGRID BINDS ALONG THE SEAM.



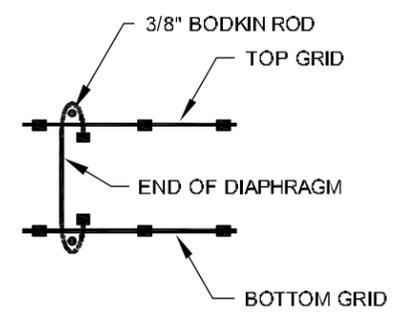
TYPICAL STITCHED SEAM DETAILS
SCALE: NOT TO SCALE



TYPICAL CONFIGURATION OF FABRICATED GABION MAT
SCALE: NOT TO SCALE

FABRICATION NOTES:

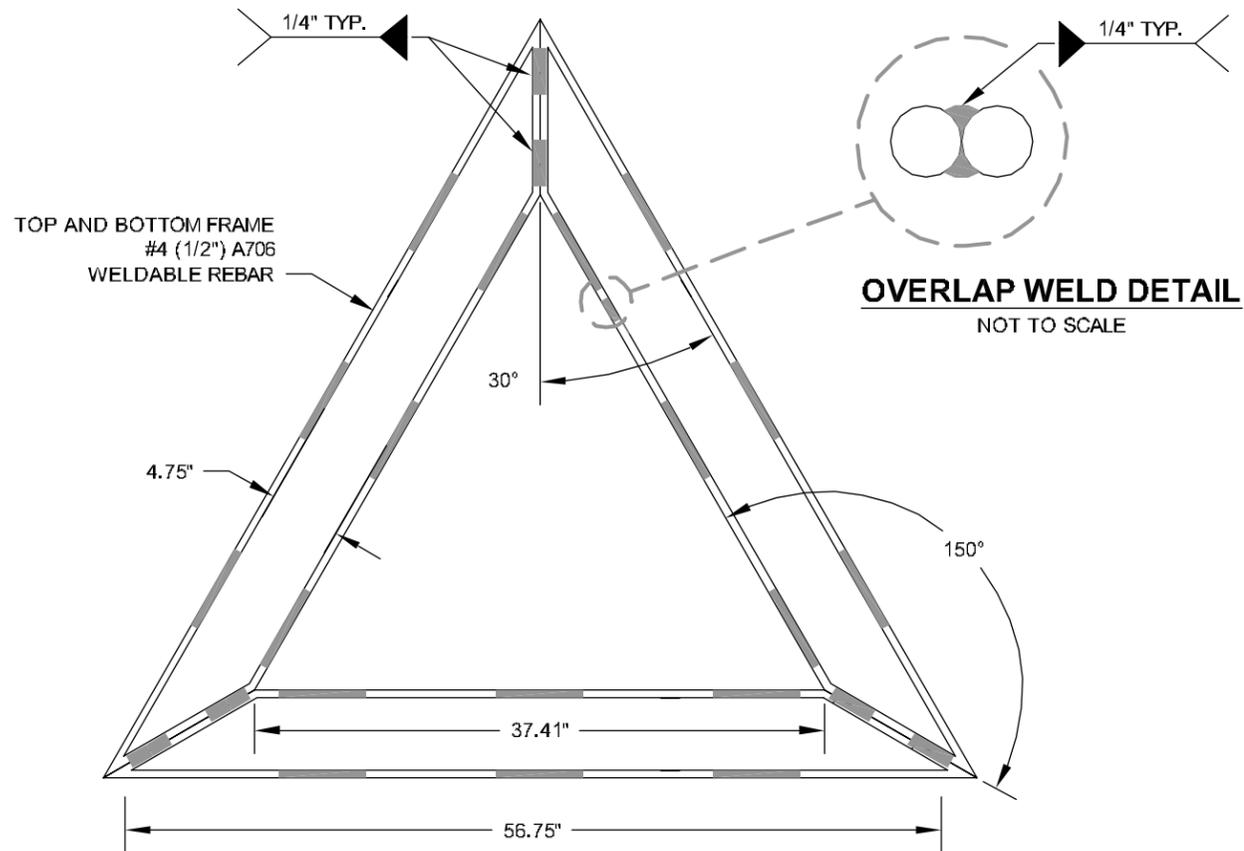
1. TYPICAL SPACING OF DIAPHRAGMS IS EVERY THREE APERTURE LENGTHS. A SHORTER SPACING MAY BE USED IN ORDER TO MATCH THE REQUIRED MAT LENGTH. LENGTH OF END PIECES AND INTERNAL DIAPHRAGMS PIECES ARE 2 GRID APERTURES LONG.
2. DUE TO THE ENVIRONMENTALLY SENSITIVE NATURE OF THE PROJECT AND POSSIBLE LIFT RESTRICTIONS OF THE CONTRACTOR'S EQUIPMENT, GABION MATS MAY BE SPLIT INTO TWO EQUAL 10' LONG MATS IN ACCORDANCE WITH THE MANUFACTURER SPECIFICATIONS.



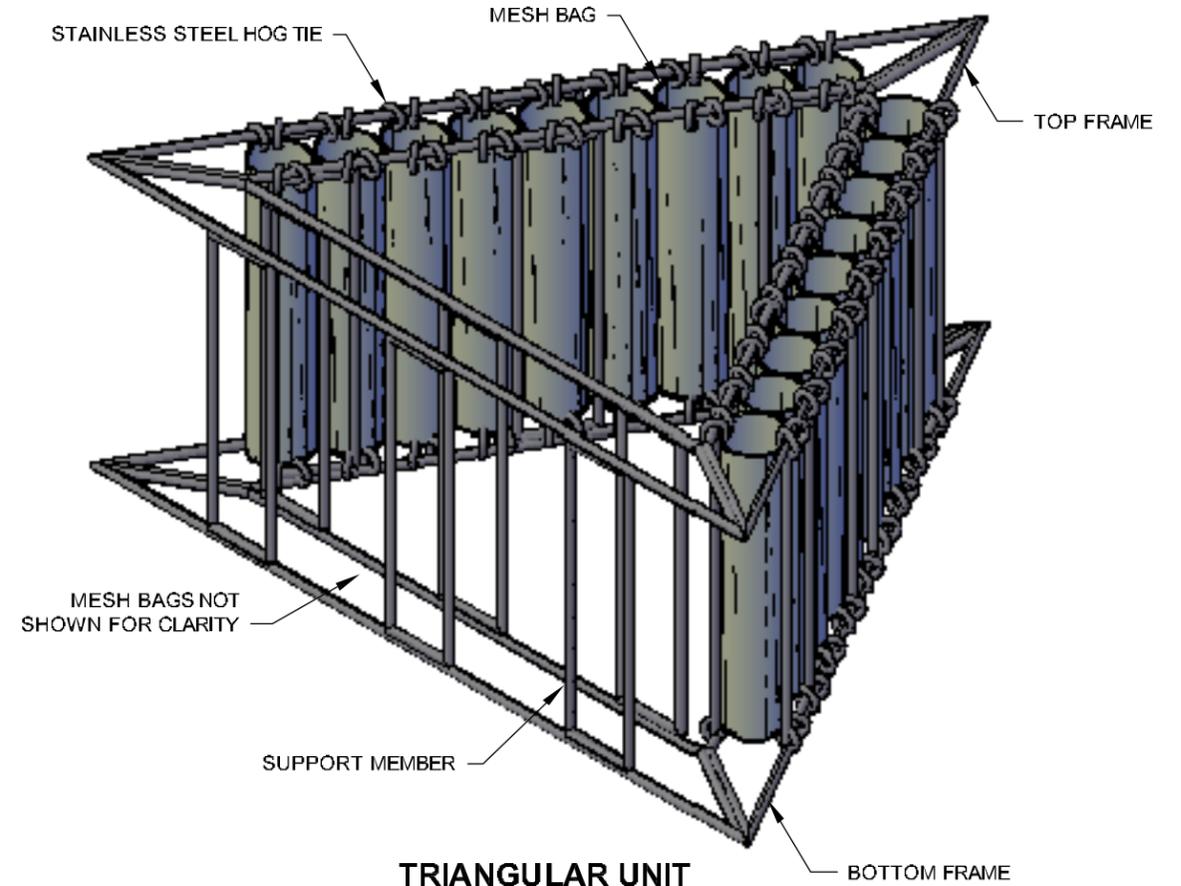
EXPANDED SECTION AT DIAPHRAGM
SCALE: NOT TO SCALE

AS-BUILT

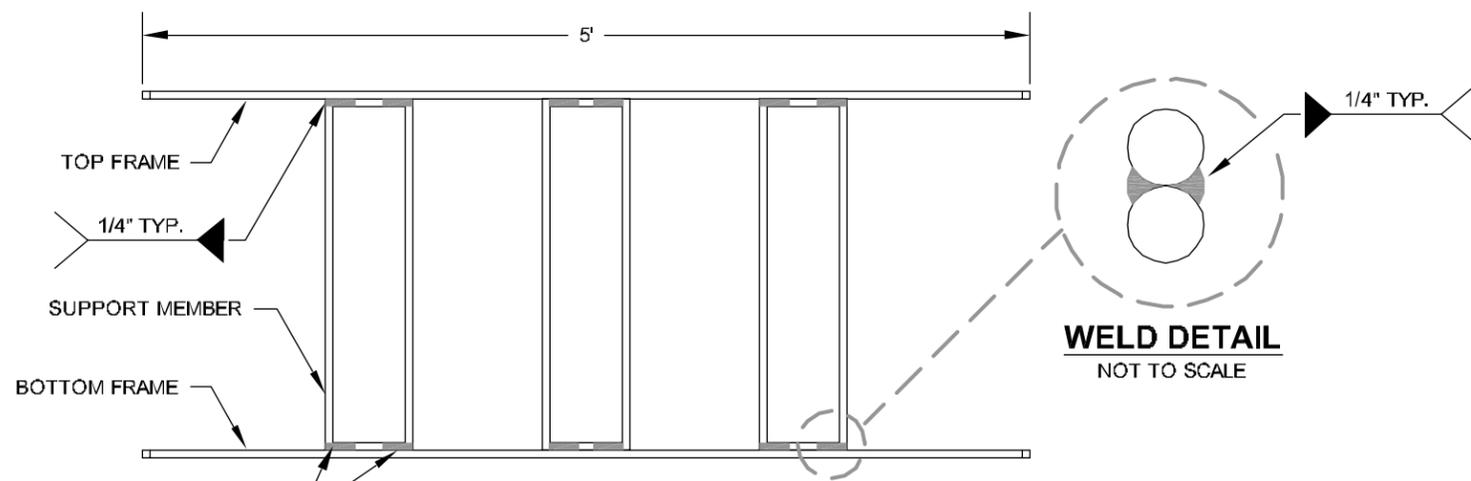
				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT		ONSHORE GABION MAT UNIT DETAILS	
						STATE PROJECT NUMBER: TE45			
						FEDERAL PROJECT NUMBER:		DATE: FEBRUARY 2007	
				DRAWN BY: KRISTI CANTU		DESIGNED BY: DAIN GILLEN, E.I.		APPROVED BY: MAURY CHATELIER, P.E.	
REV.	DATE	DESCRIPTION	BY	SHEET 9 OF 25					



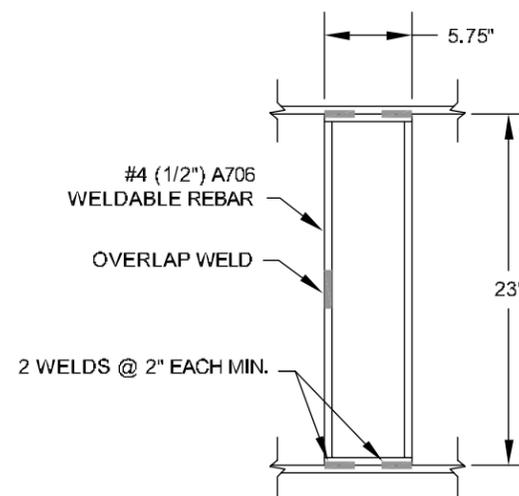
PLAN VIEW
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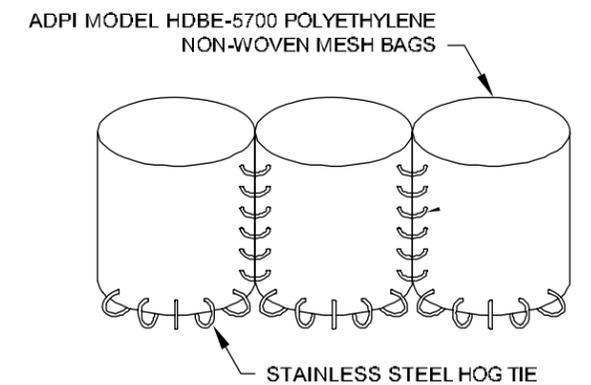
TRIANGULAR UNIT
NOT TO SCALE



PROFILE VIEW
NOT TO SCALE



SUPPORT MEMBER DETAIL
NOT TO SCALE



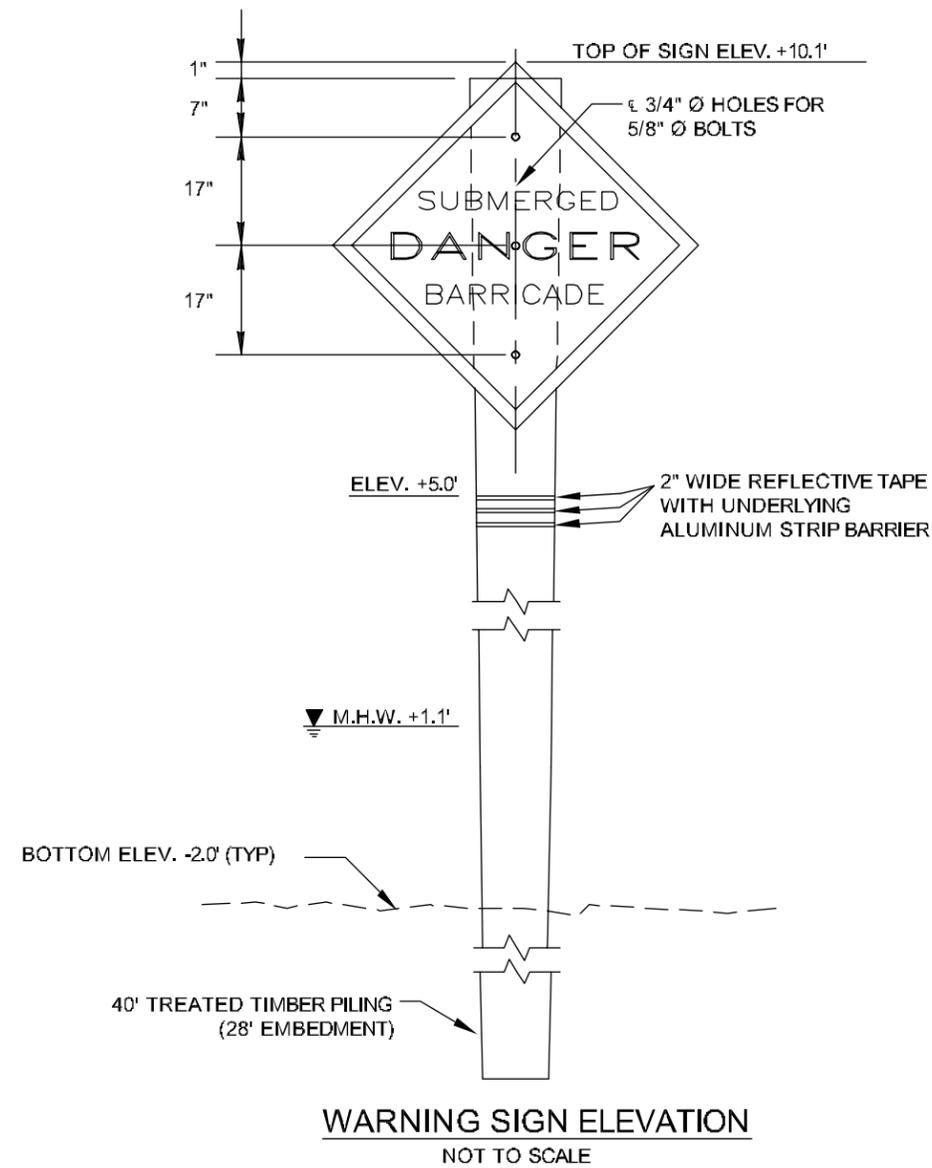
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NOTES:

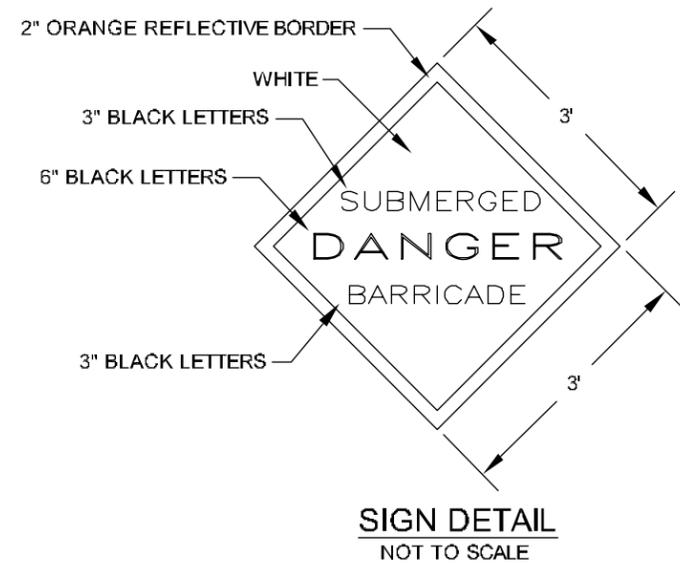
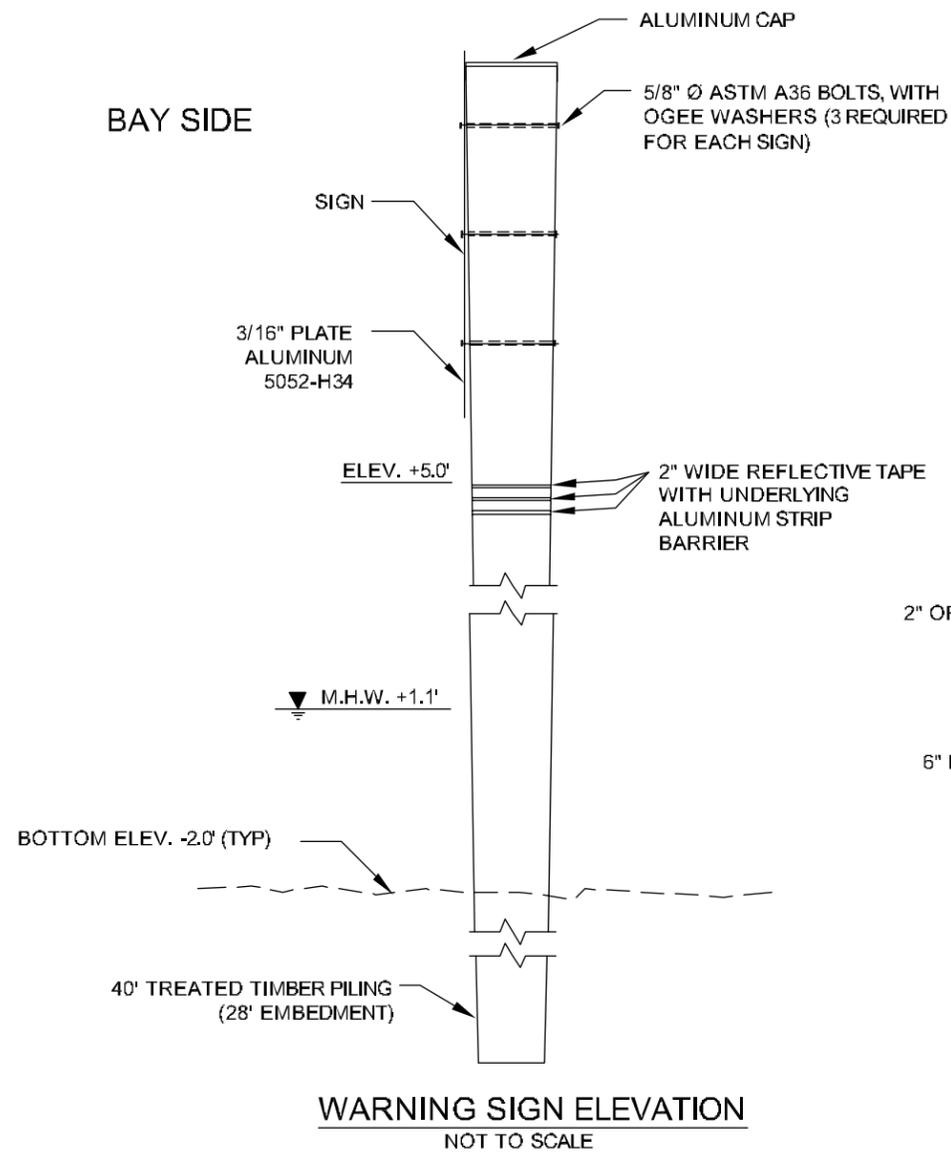
1. ALL STRUCTURAL STEEL SHALL BE ASTM A-706 WELDABLE NO. 4(1/2 INCH) REBAR.
2. SEE SHEET 5 FOR ANCHORING AND TIE-DOWN DETAILS.

AS-BUILT

				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	FORESHORE TRIANGULAR UNIT DETAILS
					STATE PROJECT NUMBER: TB-45	
					FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
REV.	DATE	DESCRIPTION	BY	DRAWN BY: KRISTI CANTU	DESIGNED BY: DAIN GILLEN, E.I.	APPROVED BY: MAURY CHATELIER, P.E.
	4/18/08	AS-BUILT DETAILS ADDED	TBS			SHEET 10 OF 25



BAY SIDE

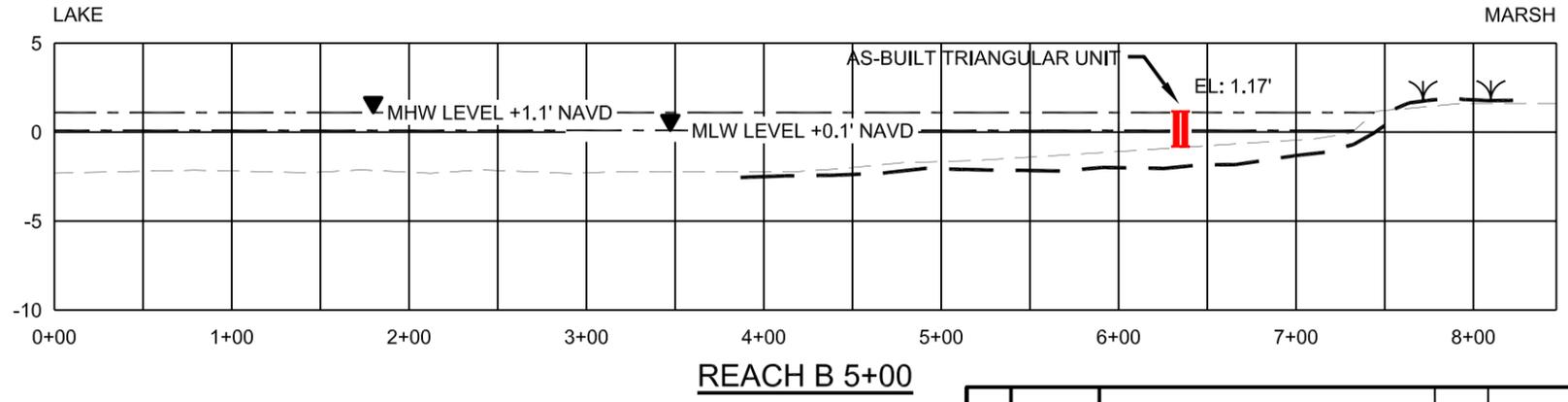
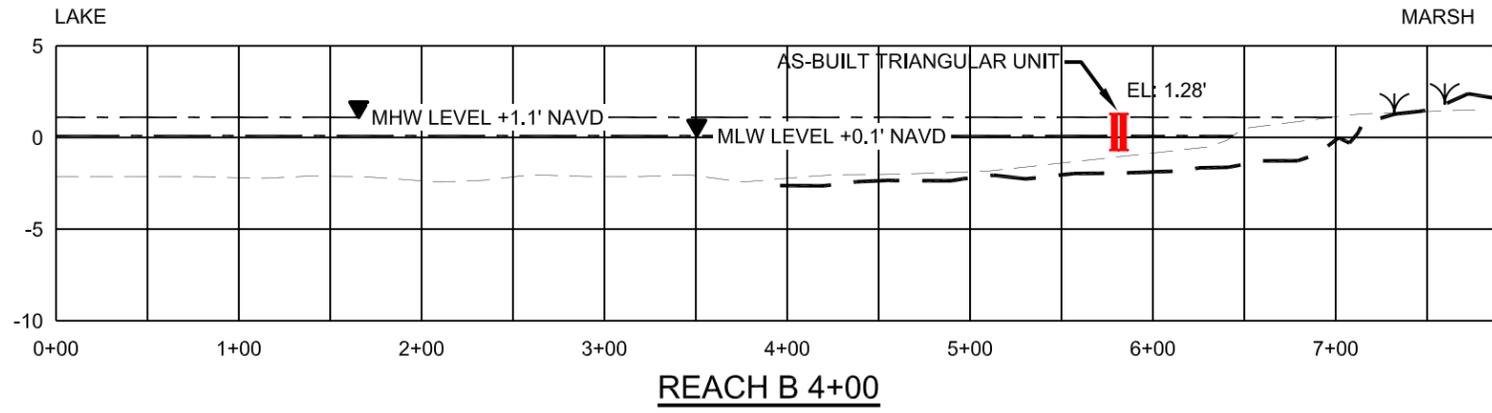
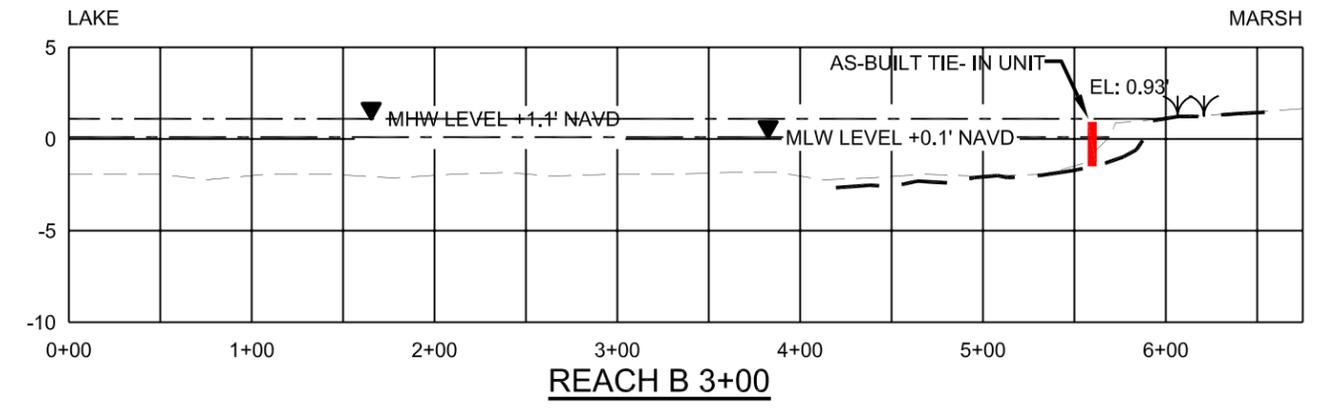
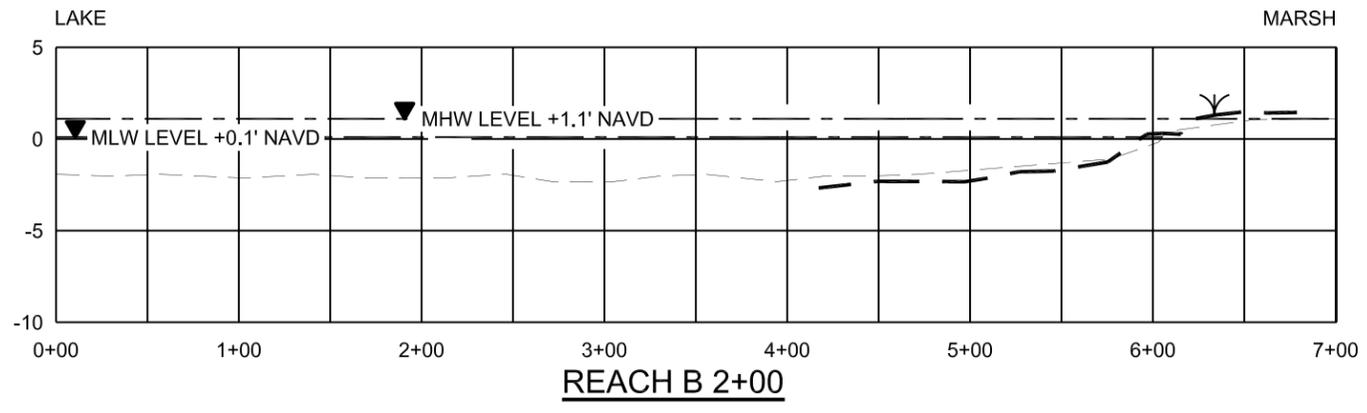
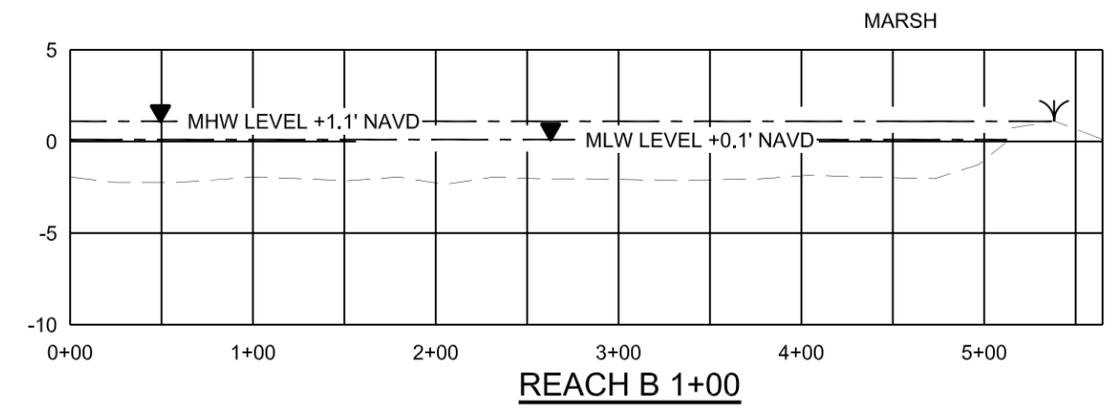
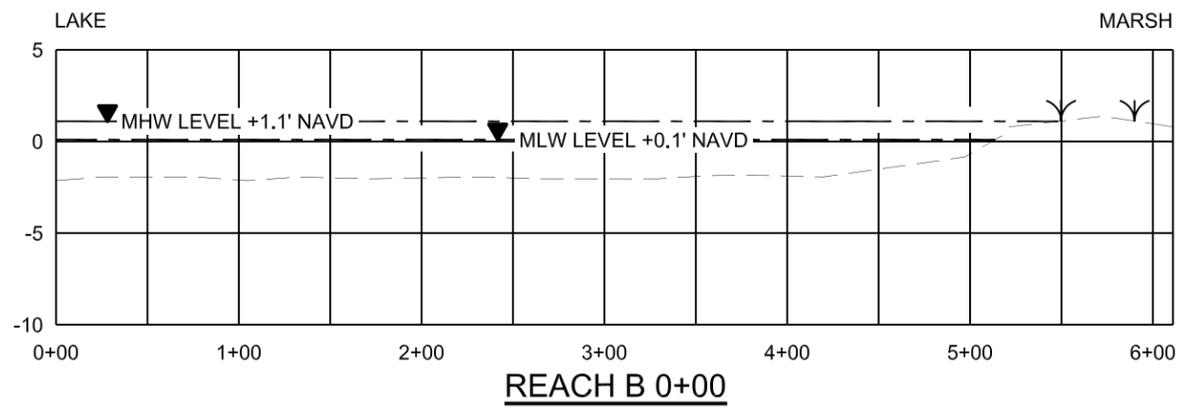


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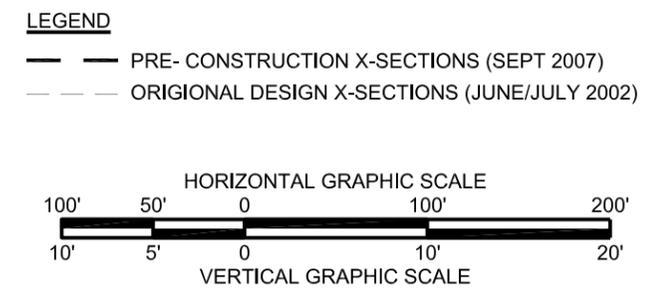
1. REFERENCES HEREIN TO THE "STANDARD SPECIFICATIONS" REFER TO THE "LA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES", LATEST EDITION, INCLUDING AMENDMENTS, BY THE DEPT. OF TRANSPORTATION AND DEVELOPMENT. MEASUREMENT AND PAYMENT WILL BE MADE AS DESCRIBED THEREIN, EXCEPT WHERE STATED OTHERWISE.
2. TWO WARNING SIGNS SHALL BE INSTALLED WITHIN EACH REACH (6 TOTAL) AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE PROJECT ENGINEER. APPROXIMATE LOCATIONS OF THE WARNING SIGNS ARE SHOWN ON SHEETS 6 AND 7. ACTUAL LOCATIONS WILL BE DETERMINED IN THE FIELD.
3. THE 2" BORDER ON THE WARNING SIGN WILL BE A REFLECTIVE MATERIAL OF ORANGE COLOR. THE LETTERING FIELD WILL BE A REFLECTIVE MATERIAL OF WHITE COLOR. THE LETTERING FOR THE WARNING SIGNS WILL BE BLACK. ALL SIGNS MUST MEET U.S. COAST GUARD STANDARDS; IN ACCORDANCE WITH 33 CFR 330.4 (a) (1).
4. NEOPRENE WASHERS SHALL BE PLACED BETWEEN THE SIGN AND THE PILING AT ALL POINTS OF CONTACT.
5. HARDWARE FOR TIMBER CONNECTIONS SHALL BE HOT DIP GALVANIZED IN ACCORDANCE WITH SECTION 811.15 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION.
6. TIMBER PILES SHALL CONFORM TO SECTIONS 804 AND 1014 OF THE LOUISIANA STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, AS PUBLISHED BY THE LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT, LATEST EDITION. PILES SHALL BE TREATED WITH A CREOSOTE SOLUTION CONFORMING TO AWPA P2 TO A MINIMUM RETENTION OF 16 PCF.
7. TIMBER PILINGS SHALL BE 40-FEET IN LENGTH WITH A 12-INCH DIAMETER BUTT AND 7-INCH DIAMETER AT THE TIP.
8. EXPOSED BOLT THREADS SHALL BE EITHER TACK WELDED TO NUTS, STRIPPED, OR DAMAGED BY OTHER APPROVED METHOD TO PREVENT EASY REMOVAL.

AS-BUILT

				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	WARNING SIGN DETAILS
					STATE PROJECT NUMBER: TE45	
					FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
REV.	DATE	DESCRIPTION	BY	DRAWN BY: KRISTI CANTU	DESIGNED BY: DAIN GILLEN, E.I.	APPROVED BY: MAURY CHATELIER, P.E.
	4/18/08	AS-BUILT DETAIL ADDED	TBS			SHEET 11 OF 25



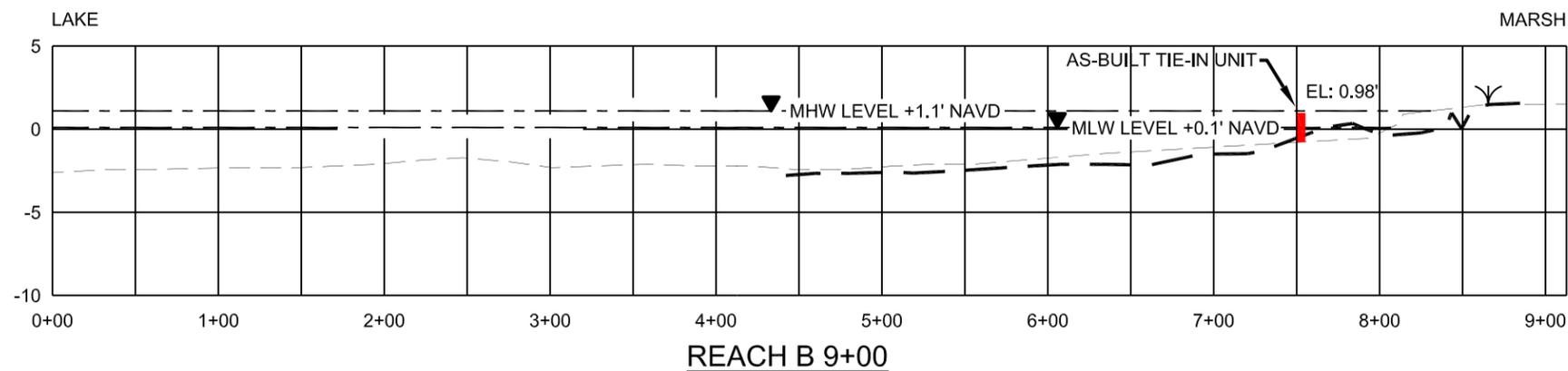
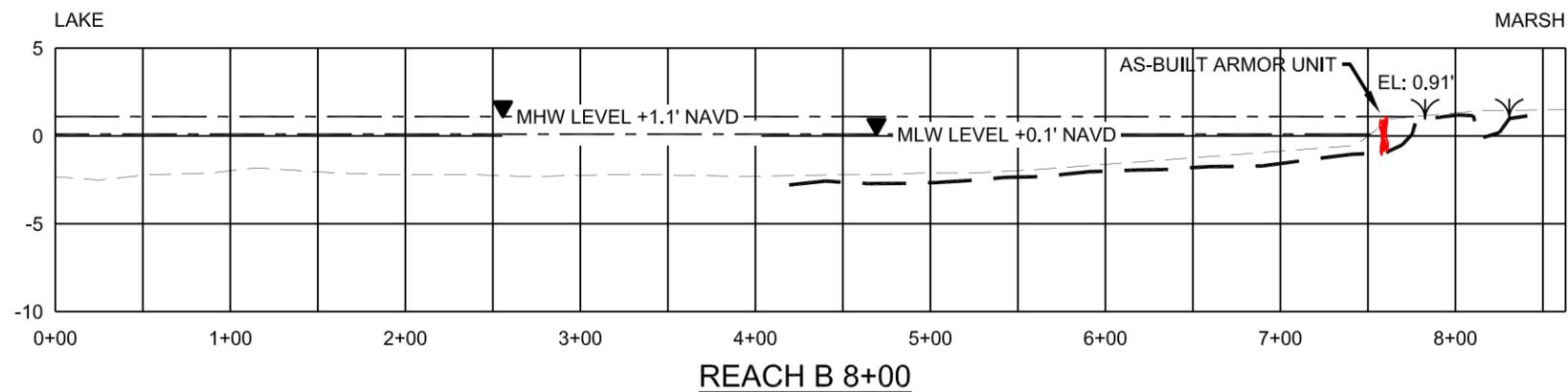
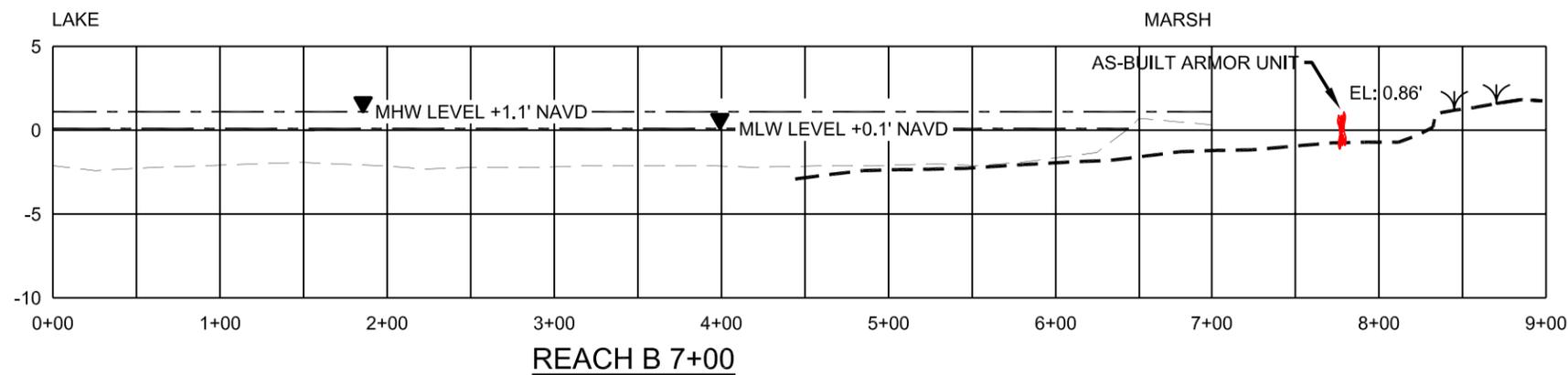
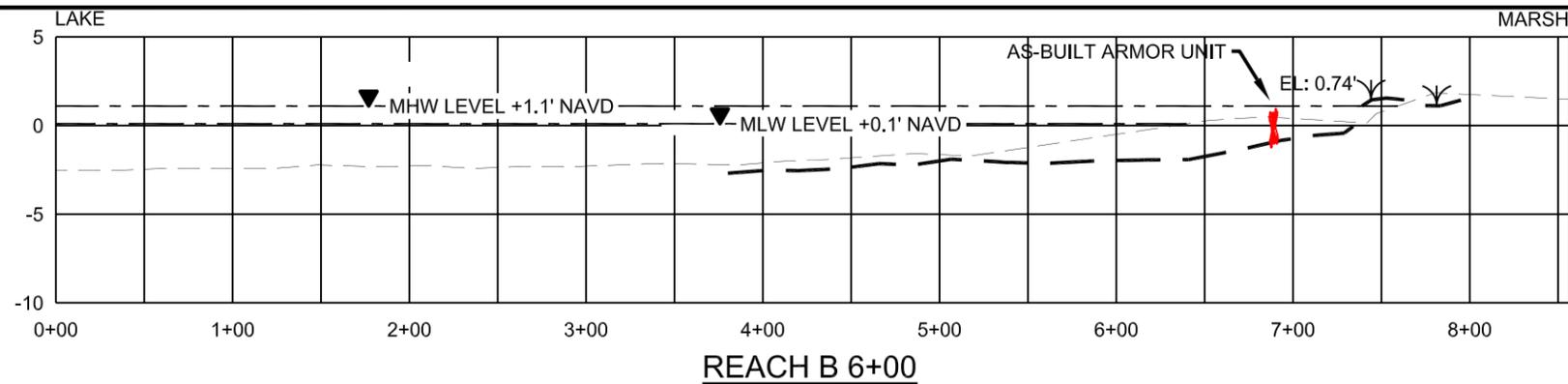
- NOTES:
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 4. AS-BUILT POSITIONS AND ELEVATIONS OF STRUCTURES WAS TAKEN FROM CONTRACTOR'S AS-BUILT SURVEY PERFORMED IN JANUARY OF 2008.



AS-BUILT

REV.	DATE	DESCRIPTION	BY
4/18/08		AS-BUILT DETAIL ADDED	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	REACH A AND B PROFILES
		STATE PROJECT NUMBER: TE-45	
DRAWN BY: KRISTI CANTU		FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
DESIGNED BY: DAIN GILLEN, E.I.		APPROVED BY: MAURY CHATELLIER, P.E.	SHEET 12 OF 25

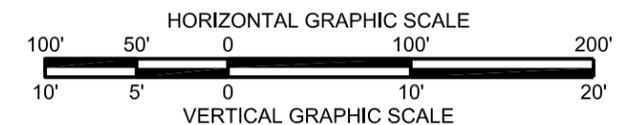


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LEGEND

- PRE- CONSTRUCTION X-SECTIONS (SEPT 2007)
- - - ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)



AS-BUILT

REV.	DATE	DESCRIPTION	BY
4/18/08		AS-BUILT DETAIL ADDED	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

DRAWN BY: KRISTI CANTU

DESIGNED BY: DAIN GILLEN, E.I.

TERREBONNE BAY SHORE PROTECTION
DEMONSTRATION PROJECT

STATE PROJECT NUMBER: TE-45

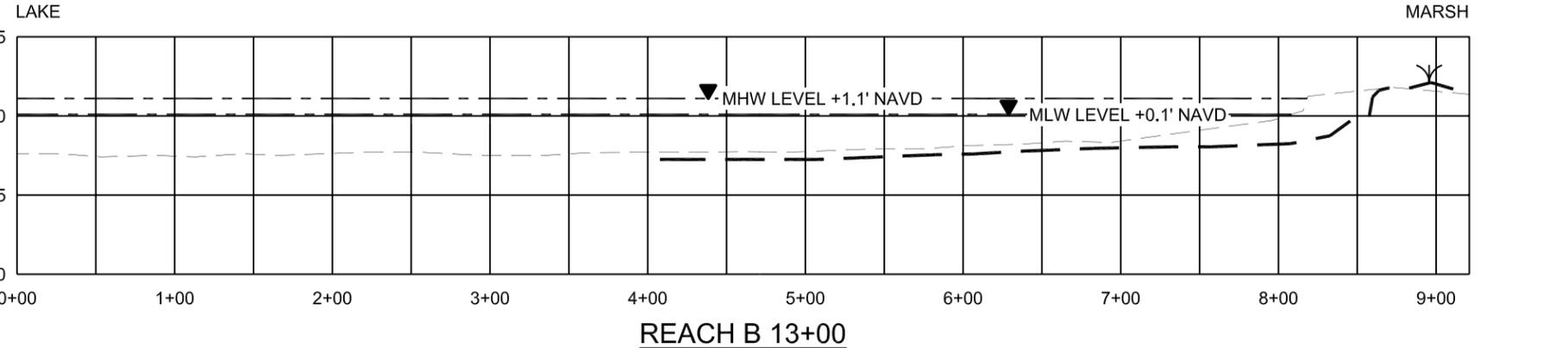
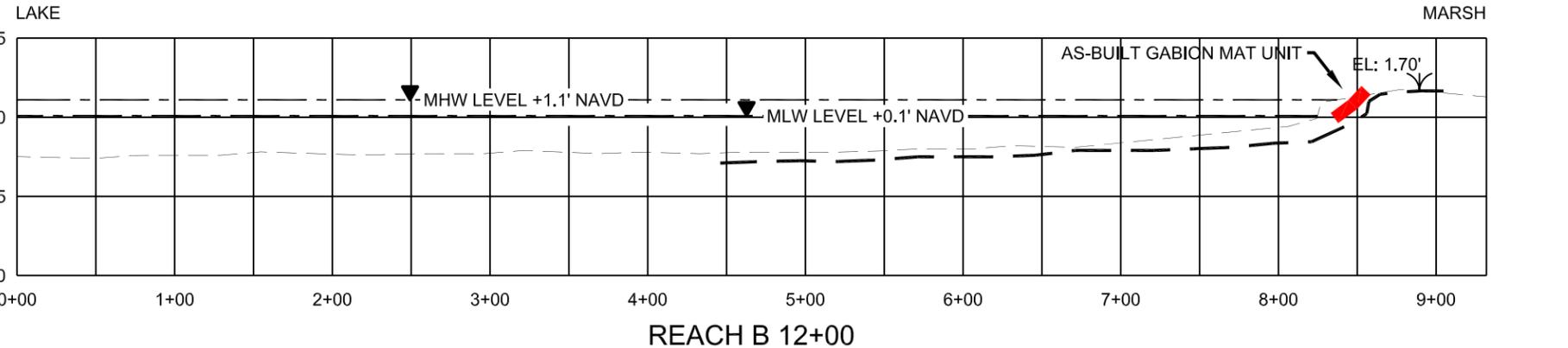
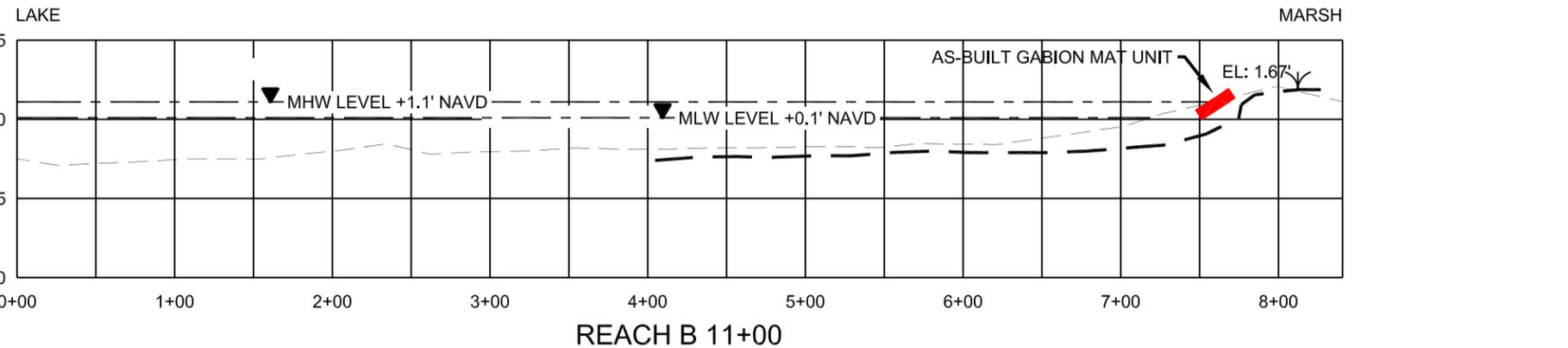
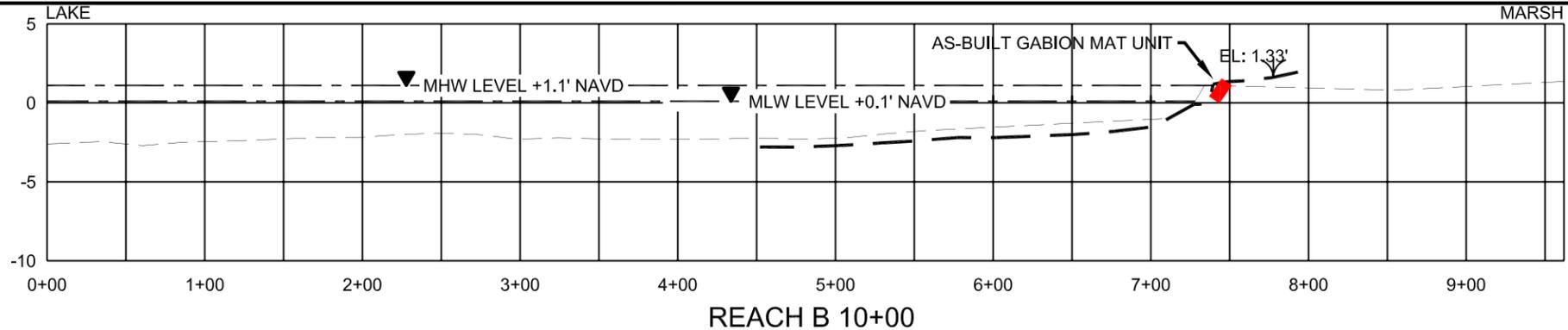
FEDERAL PROJECT NUMBER:

APPROVED BY: MAURY CHATELLIER, P.E.

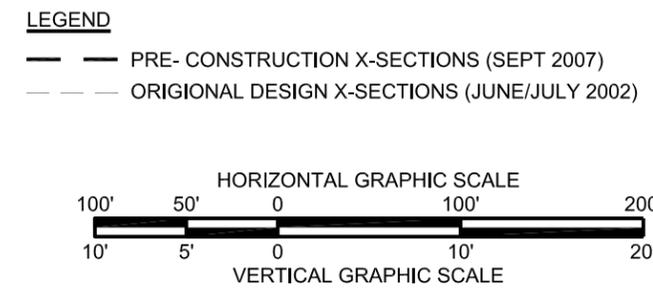
REACH A AND B
PROFILES

DATE: FEBRUARY 2007

SHEET 13 OF 25



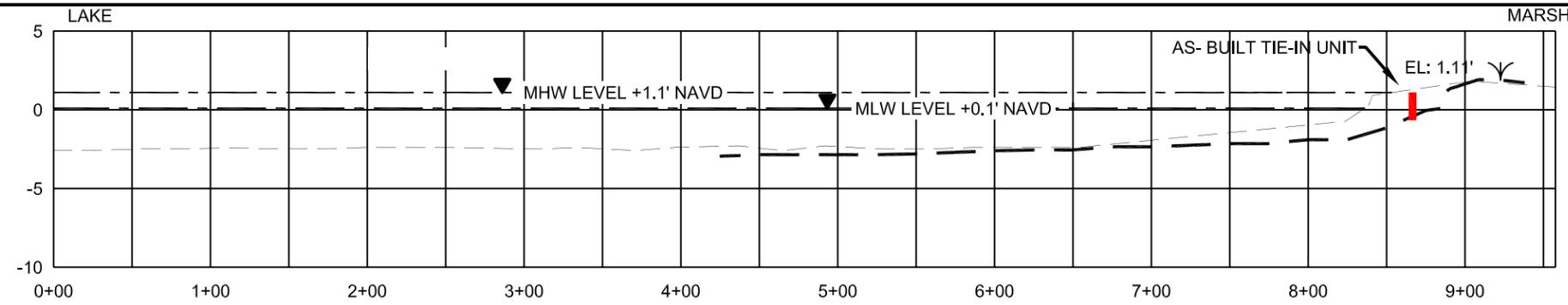
- NOTES:
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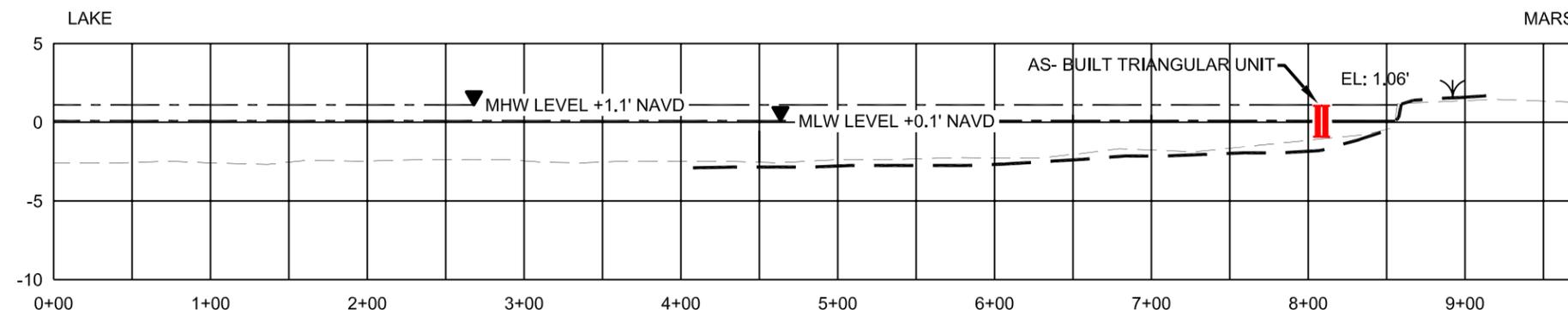
AS-BUILT

REV.	DATE	DESCRIPTION	BY
4/18/08		AS-BUILT DETAIL ADDED	TBS

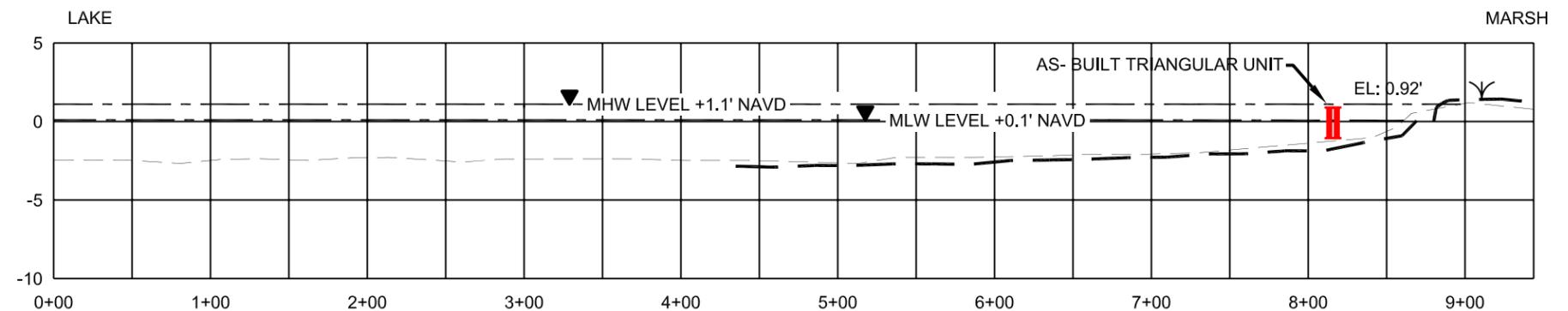
LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	REACH A AND B PROFILES
		STATE PROJECT NUMBER: TE-45	
DRAWN BY: KRISTI CANTU		FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
DESIGNED BY: DAIN GILLEN, E.I.		APPROVED BY: MAURY CHATELLIER, P.E.	SHEET 14 OF 25



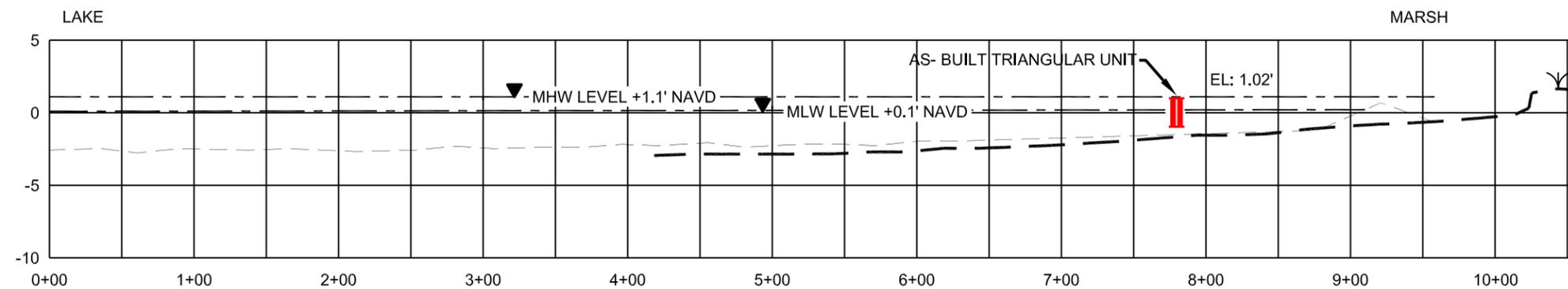
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REACH A 15+00



REACH A 16+00



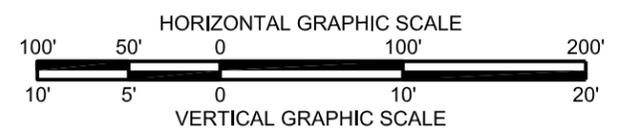
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LEGEND

- PRE-CONSTRUCTION X-SECTIONS (SEPT 2007)
- - - ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)



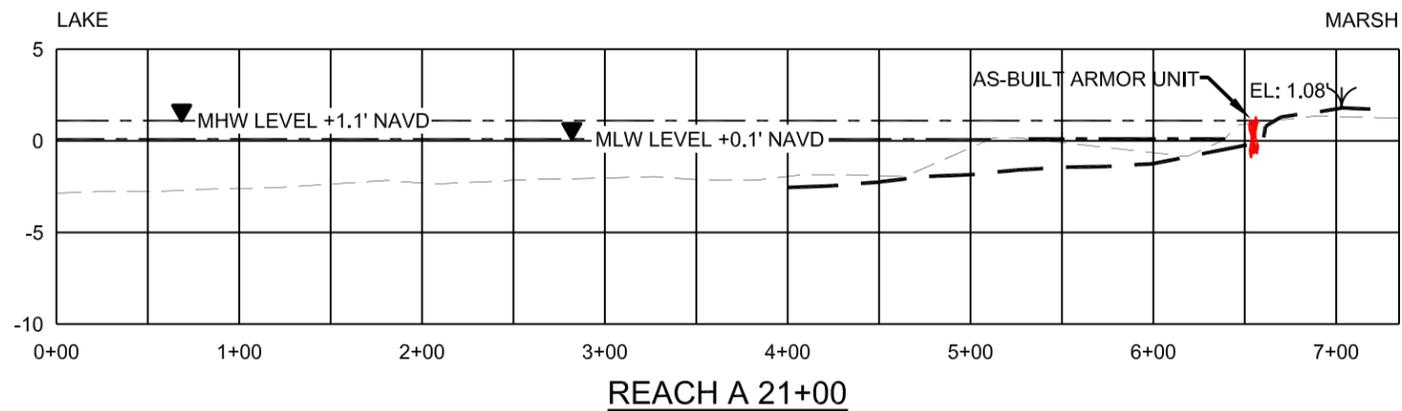
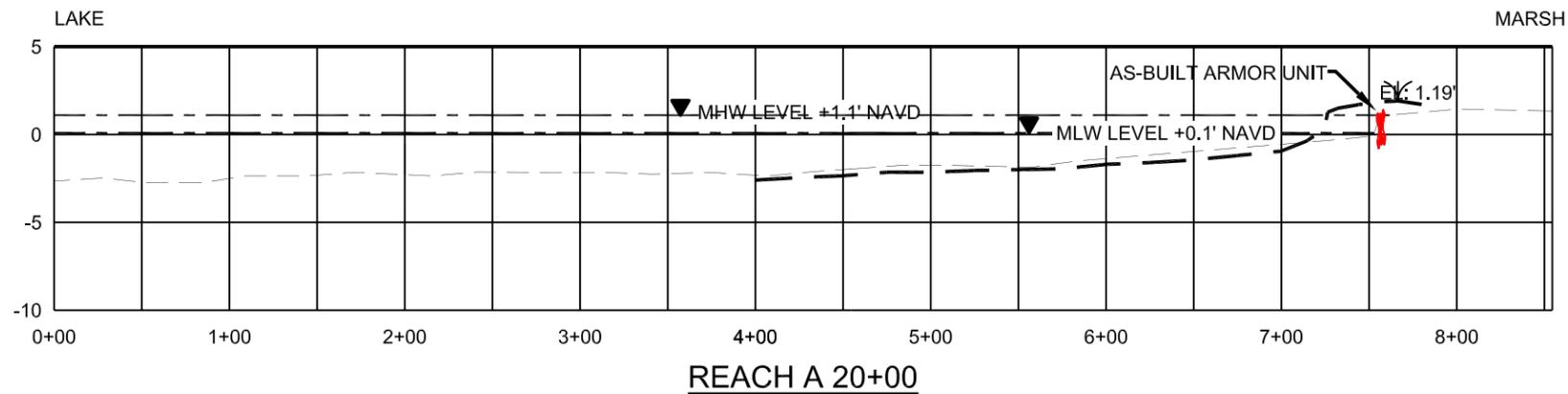
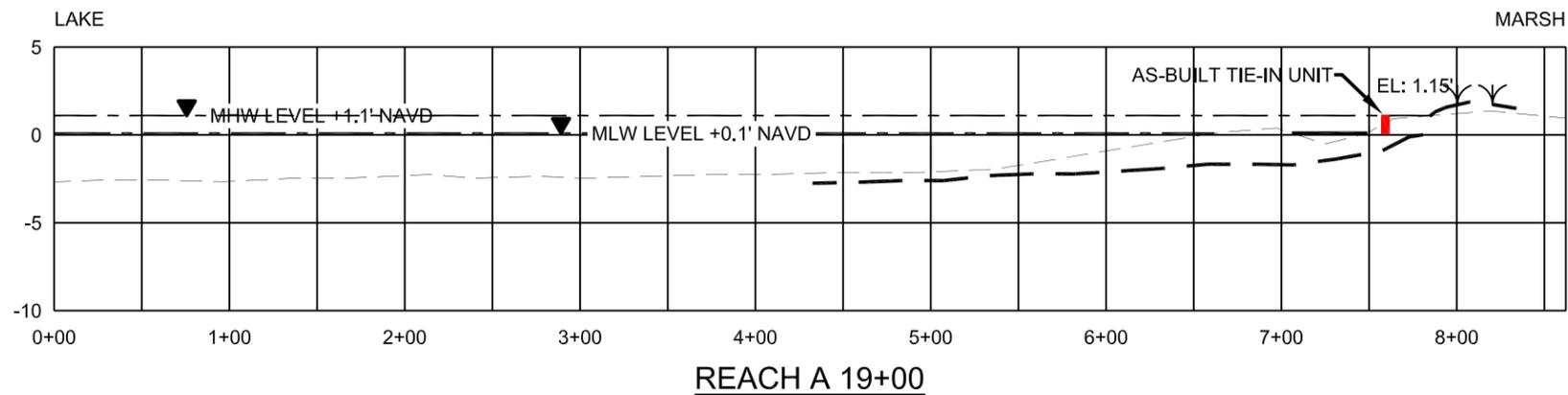
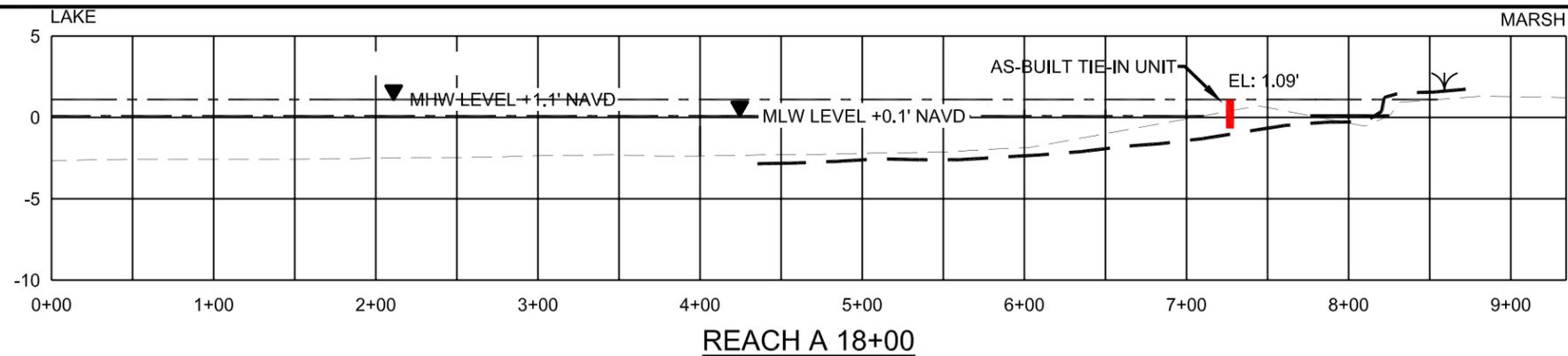
AS-BUILT

REV.	DATE	DESCRIPTION	BY
4/18/08		AS-BUILT DETAIL ADDED	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
 617 NORTH 3RD STREET
 BATON ROUGE, LOUISIANA 70802

DRAWN BY: KRISTI CANTU DESIGNED BY: DAIN GILLEN, E.I.

TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	REACH A AND B PROFILES
STATE PROJECT NUMBER: TE-45	
FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
APPROVED BY: MAURY CHATELLIER, P.E.	SHEET 15 OF 25

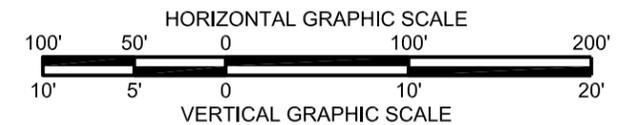


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LEGEND

- PRE- CONSTRUCTION X-SECTIONS (SEPT 2007)
- - - ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)



AS-BUILT

REV.	DATE	DESCRIPTION	BY
4/18/08		AS-BUILT DETAIL ADDED	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

TERREBONNE BAY SHORE PROTECTION
DEMONSTRATION PROJECT

STATE PROJECT NUMBER: TE-45

FEDERAL PROJECT NUMBER:

APPROVED BY: MAURY CHATELLIER, P.E.

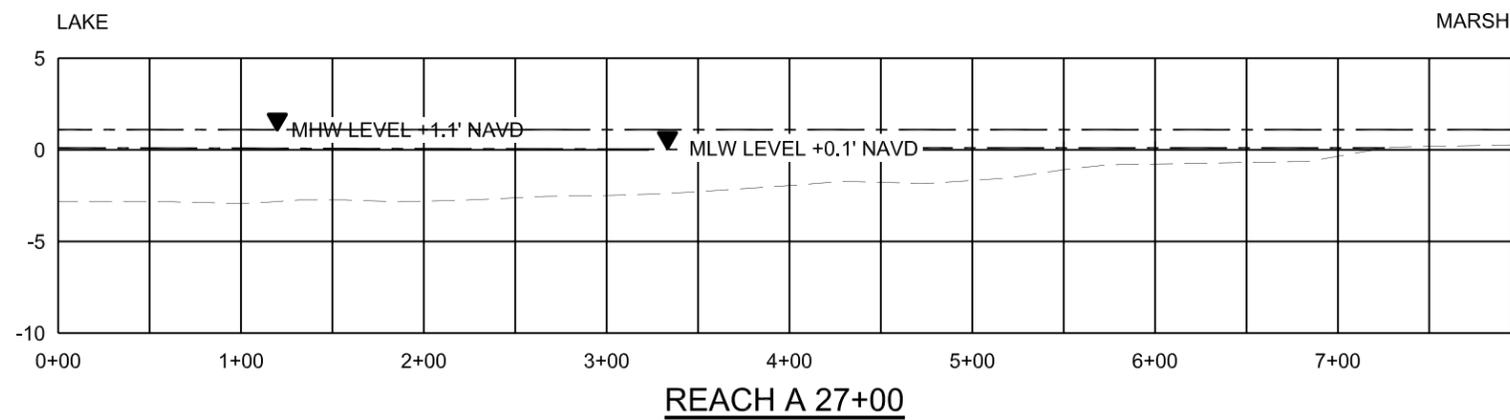
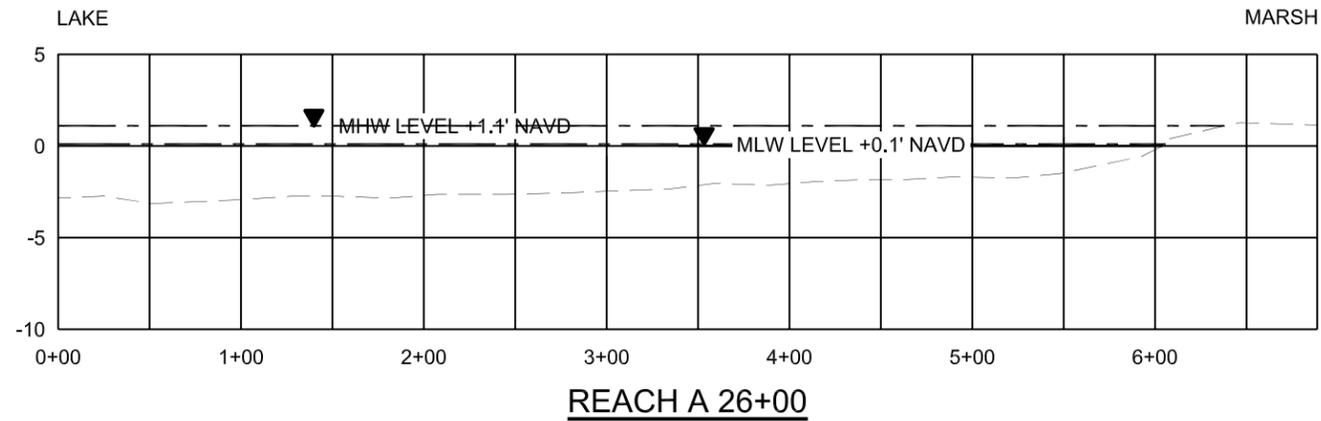
REACH A AND B
PROFILES

DATE: FEBRUARY 2007

SHEET 16 OF 25

DRAWN BY: KRISTI CANTU

DESIGNED BY: DAIN GILLEN, E.I.

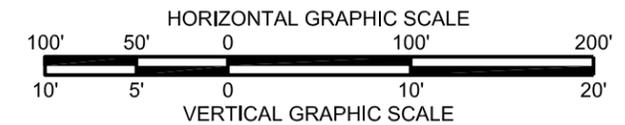


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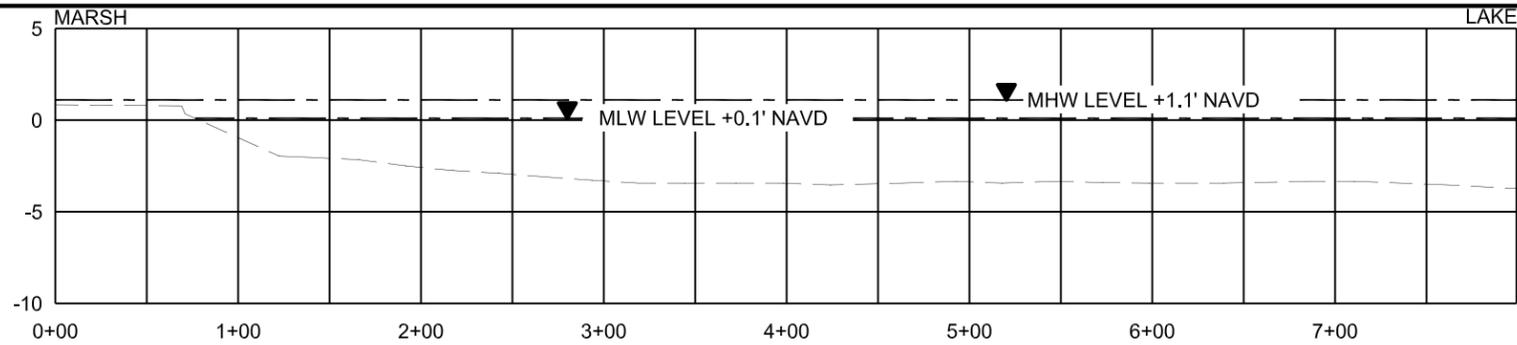
LEGEND

- PRE- CONSTRUCTION X-SECTIONS (SEPT 2007)
- - - ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)

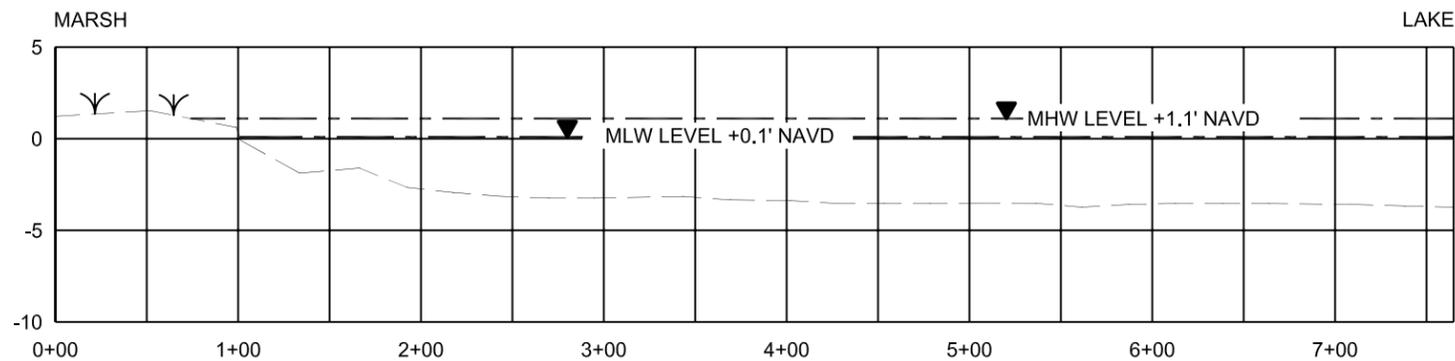


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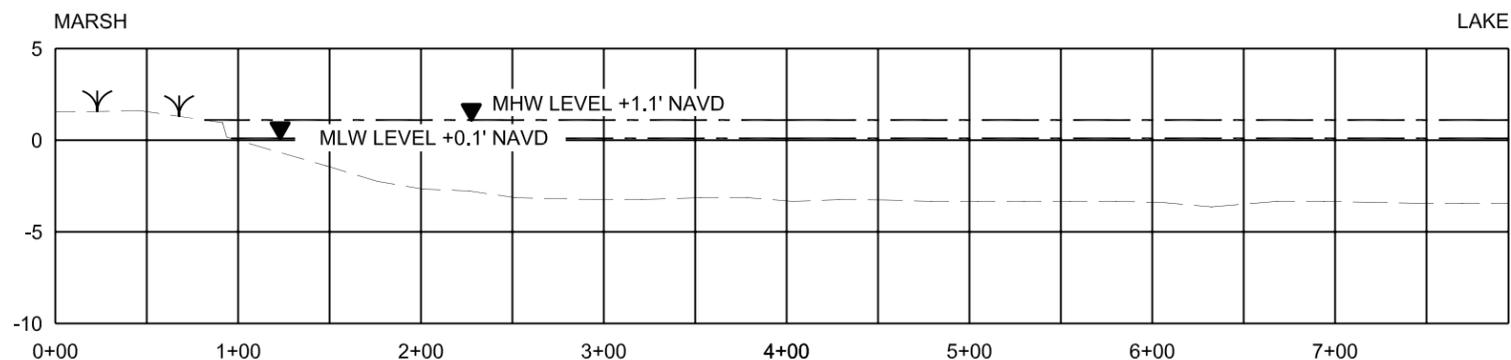
				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802	TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	REACH A AND B PROFILES
					STATE PROJECT NUMBER: TE-45	
					FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
REV.	DATE	DESCRIPTION	BY	DRAWN BY: KRISTI CANTU	DESIGNED BY: DAIN GILLEN, E.I.	APPROVED BY: MAURY CHATELLIER, P.E.
	4/18/08	AS-BUILT DETAIL ADDED	TBS			SHEET 18 OF 25



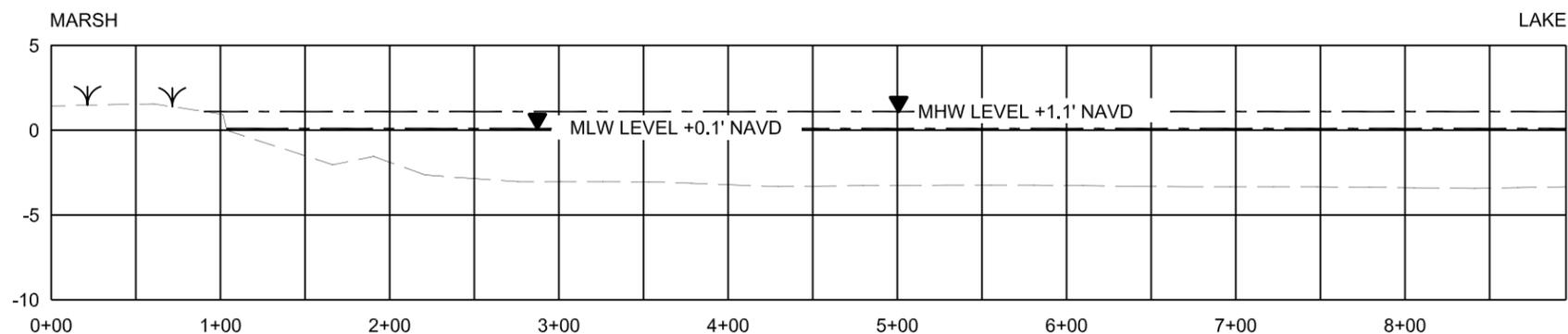
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REACH E 8+00



REACH E 9+00



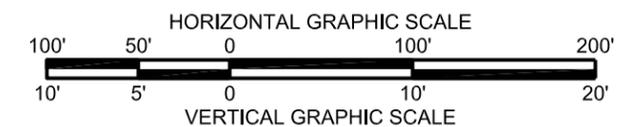
REACH E 10+00

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LEGEND

- PRE-CONSTRUCTION X-SECTIONS (SEPT 2007)
- - - ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)



AS-BUILT

REV.	DATE	DESCRIPTION	BY
4/18/08		AS-BUILT DETAIL ADDED	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION
 617 NORTH 3RD STREET
 BATON ROUGE, LOUISIANA 70802

TERREBONNE BAY SHORE PROTECTION
 DEMONSTRATION PROJECT

REACH E PROFILES

STATE PROJECT NUMBER: TE-45

FEDERAL PROJECT NUMBER:

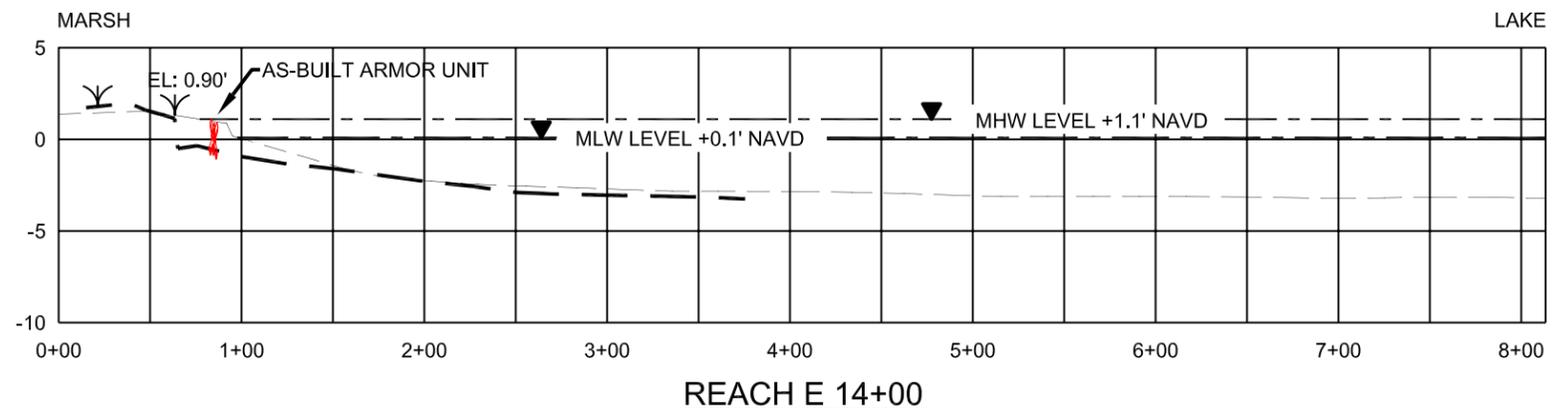
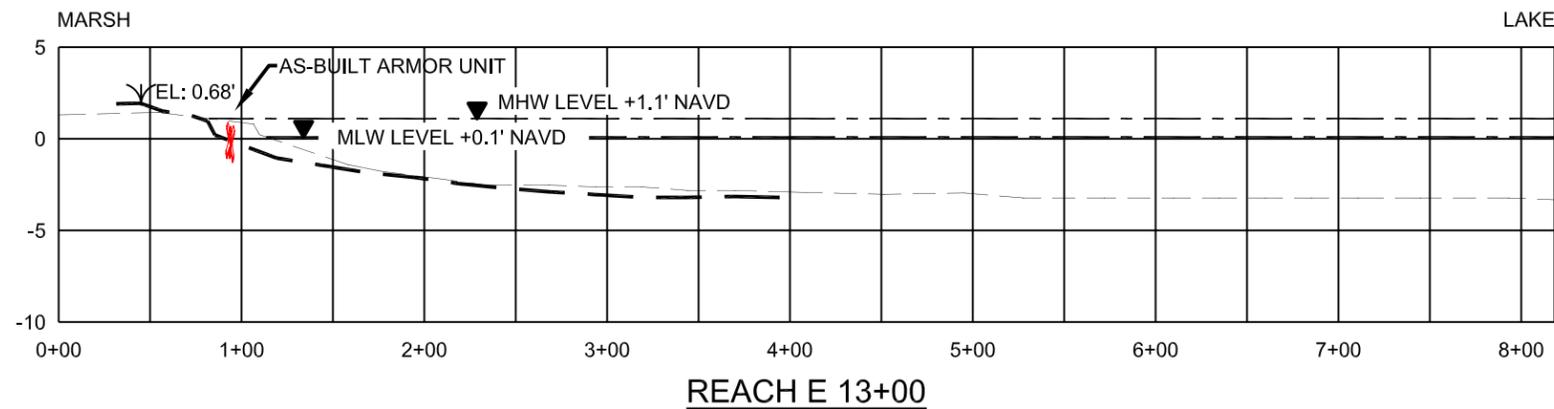
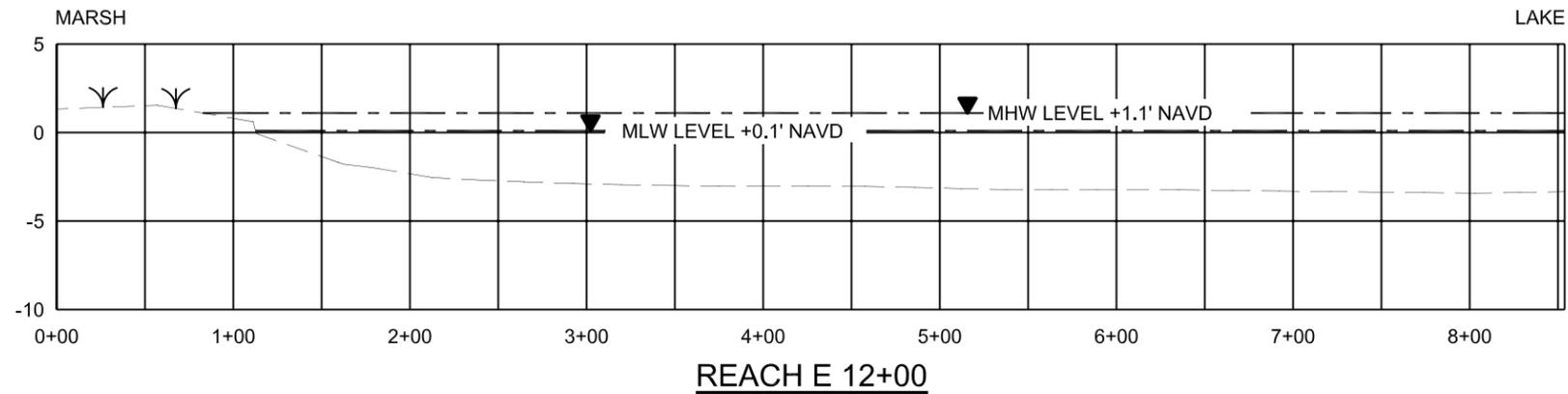
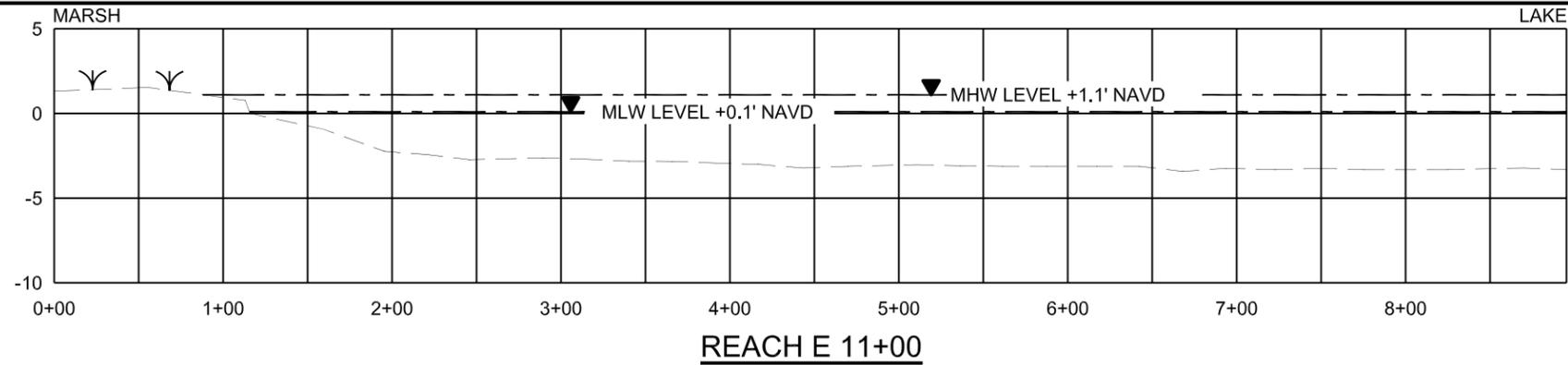
DATE: FEBRUARY 2007

DRAWN BY: KRISTI CANTU

DESIGNED BY: DAIN GILLEN, E.I.

APPROVED BY: MAURY CHATELLIER, P.E.

SHEET 20 OF 25

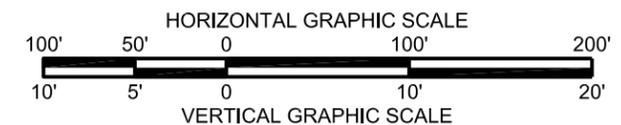


NOTES:

1. THE MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS ARE BASED ON THE BAYOU PETIT CAILLOU GAGE #76305 READINGS FROM 1992-2002 HAVING A VERTICAL DATUM OF NGVD 29 WHICH WAS CONVERTED TO NAVD 88 ELEVATIONS.
2. ALL ELEVATIONS ARE GIVEN IN THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. CROSS-SECTIONS ARE BASED ON CONTRACTOR'S PRE-CONSTRUCTION SURVEY PERFORMED IN SEPTEMBER OF 2007.
4. AS-BUILT POSITIONS AND ELEVATIONS OF STRUCTURES WAS TAKEN FROM CONTRACTOR'S AS-BUILT SURVEY PERFORMED IN JANUARY OF 2008.

LEGEND

- PRE-CONSTRUCTION X-SECTIONS (SEPT 2007)
- - - ORIGINAL DESIGN X-SECTIONS (JUNE/JULY 2002)



AS-BUILT

REV.	DATE	DESCRIPTION	BY
4/18/08		AS-BUILT DETAIL ADDED	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES
COASTAL ENGINEERING DIVISION

617 NORTH 3RD STREET
BATON ROUGE, LOUISIANA 70802

TERREBONNE BAY SHORE PROTECTION
DEMONSTRATION PROJECT

STATE PROJECT NUMBER: TE-45

FEDERAL PROJECT NUMBER:

APPROVED BY: MAURY CHATELLIER, P.E.

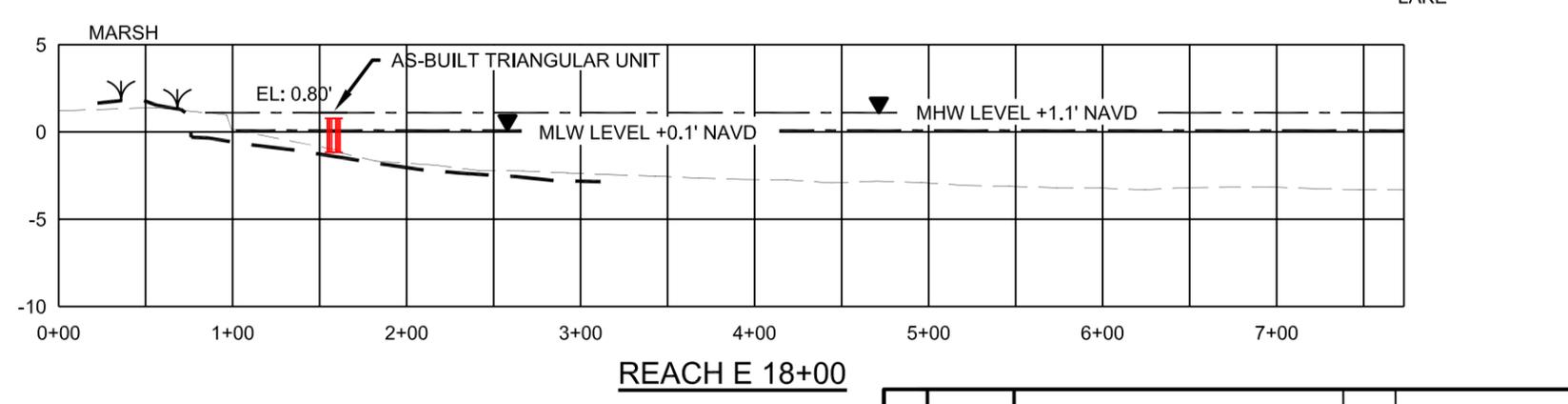
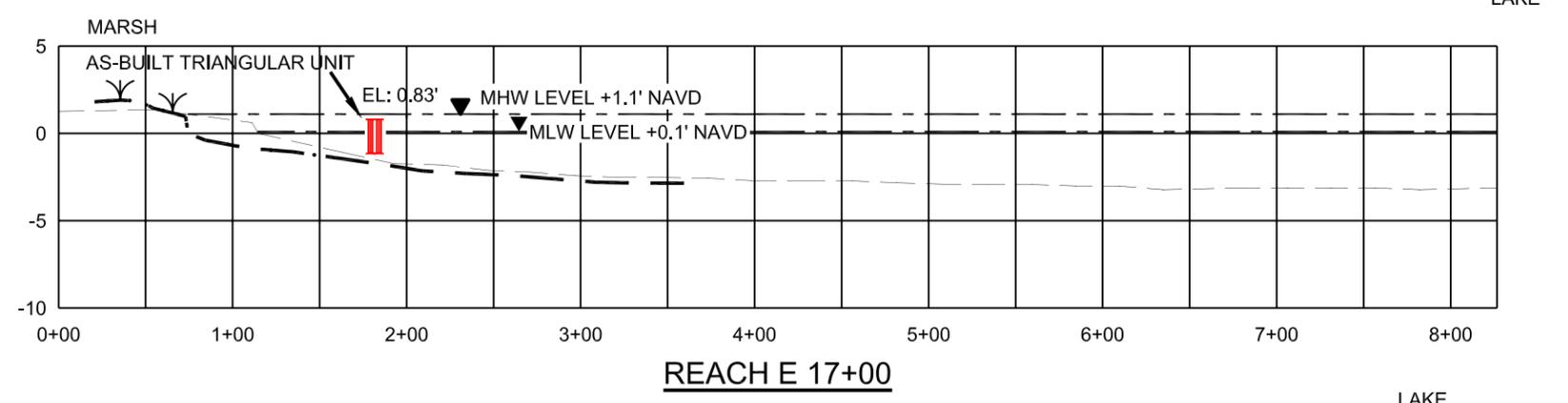
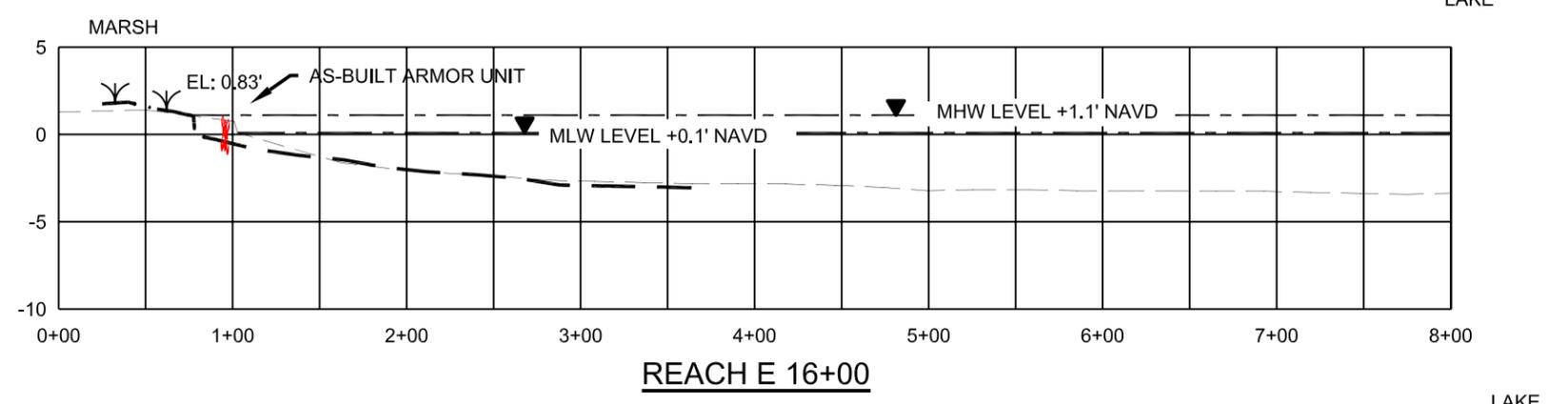
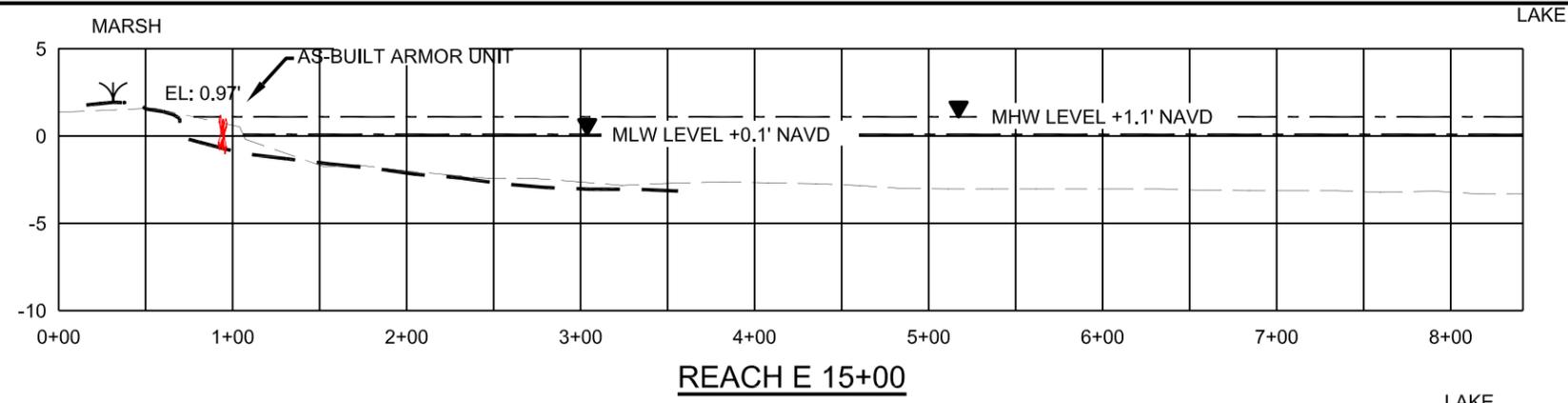
REACH E PROFILES

DATE: FEBRUARY 2007

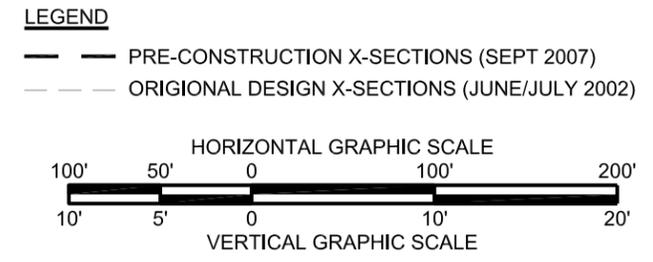
SHEET 21 OF 25

DRAWN BY: KRISTI CANTU

DESIGNED BY: DAIN GILLEN, E.I.



- NOTES:
1. THE MEAN HIGH WATER (MHW) AND MEAN LOW WATER (MLW) ELEVATIONS ARE BASED ON THE BAYOU PETIT CAILLOU GAGE #76305 READINGS FROM 1992-2002 HAVING A VERTICAL DATUM OF NGVD 29 WHICH WAS CONVERTED TO NAVD 88 ELEVATIONS.
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AS-BUILT

REV.	DATE	DESCRIPTION	BY
4/18/08		AS-BUILT DETAIL ADDED	TBS

LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		TERREBONNE BAY SHORE PROTECTION DEMONSTRATION PROJECT	REACH E PROFILES
		STATE PROJECT NUMBER: TE-45	
DRAWN BY: KRISTI CANTU		FEDERAL PROJECT NUMBER:	DATE: FEBRUARY 2007
DESIGNED BY: DAIN GILLEN, E.I.		APPROVED BY: MAURY CHATELLIER, P.E.	SHEET 22 OF 25

