CELMN-CD-LA

MEMORANDUM THRU: CEMVN-CD-LA, Project Engineer (Mr. K. Benoit)
CEMVN-CD-LA, Area Engineer (Mr. C. Ashley)
C/CONSTR. DIV

FOR: C/ENG DIV

SUBJECT: Narrative Completion Report, Contract No. DACW29-01-C-0052
Coastal Wetland Planning, Protection and Restoration Act
Marsh Island Restoration Federal Project FM268 State Project TV 5/7 TV-14
Iberia Parish, Louisiana

1. **SIGNIFICANT DATES / NUMBERS:**

Contract Award Date:	17 JUL 01
Preconstruction Conference:	19 JUL 01
Acknowledge NTP:	19 JUL 01
Original Completion Date:	15 JAN 02
Revised Completion Date:	15 JAN 02
Commencement Date:	25 JUL 01
Actual Completion Date:	12 DEC 01
Original Contract Amount:	$2,793,500.00
Revised Contract Amount:	$2,924,190.30

2. **CONTRACTORS:**

Prime Contractor: Tacon Company, Inc.
6525 Ferncrest Drive
Bartlett, TN 38135

Subcontractor: Luhr Bros., Inc.
P.O. Box 50
Columbia, Illinois 62236

René Cross Construction, Inc.
P.O. Box 34
Belle Chase, Louisiana

3. **ITEMS OF WORK:**

		EST. QUAN/UNIT	EST. COST	FINAL QUANTITY	FINAL COST	%OVER OR UNDER
0001	Mobilization/ Demobilization	L/S	$ 64,000.00	L/S	$ 64,000.00	_____
0002	Armor/ Stone	55,000 TN @ 29.00	$1,595,000.00	59,243 TN @ 29.00	$1,718,047.00	_+7.7%_
0003	Earthen/ Closure	1,550 CY @ 18.80	$ 29,140.00	658 CY @ 18.80	$ 12,370.40	_-57.5%__
0004	Geotextile	19,500 SY @ 5.00	$ 97,500.00	26,249 SY @ 5.00	$ 131,245.00	+34.6%__
0005	Piling/ Still Sheet	11,600 SF @ 27.85	$323,060.00	11,600 SF @ 27.85	$ 323,060.00	_____
0006	Flotation/ Channel	L/S	$243,000.00	L/S	$ 243,000.00	_____

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ITEMS OF WORK:	EST. QUAN/UNIT	EST. COST	FINAL QUANTITY	FINAL COST	%OVER OR UNDER
0007 Armor/ Stone	16,000 TN @ 25.30	$ 404,800.00	19,333 TN @ 25.30	$ 489,124.90	_+20.8%_
0008 Geotextile	7,400 SY @ 5.00	$ 37,000.00	8,554 SY @ 5.00	$ 42,770.00	_+15.6%__
	Totals	$2,793,500.00		$3,023,617.30	_+8.2%_

Mods. are pending.

4. **EQUIPMENT:**

5. Luhr Bros. Inc.

2- 4600 Manitowoc Draglines	(2,4,6,7,8)
2- Tug Boats	(1,2,6,7,8)
4- Spud Barges	(2,4,6,7,8)
1- 375 Caterpillar Excavator	(2,4,6,7,8)
1- 330 Caterpillar Excavator	(2,4,6,7,8)
1- Crew Boat	(1)
2- Survey Boats	(2,4,5)
1-Marsh Buggy	(3)

Rene Cross Construction, Inc.

1- 408 Linkbelt Crane	(5)
1- Spud Barge	(5)
1- Deck Barge	(5)
2- Tug Boats	(5)
1- ICE Vibrator Hammer	(5)

Note: Numbers in parentheses next to equipment correspond to respective items of work in which that piece of equipment was used.

6. **ITEMS OF WORK START/FINISH:**

This contract was broken down into ten different work sites. The sites were given the names 2 though 9, Foreshore Protection, Lake Sand Closure and Shoreline Protection. The Sub contractor, Luhr Bros., began mobilizing his equipment in on 28 SEP 01 to begin excavating the flotation channels to sites 2,3,4 and Lake Sand Closure. Luhr Bros. began their fabric and stone placement on site #3 on 02 NOV 01 using the 4600 Manitowoc on spud barge. The fabric was placed and held to the bottom with sand bags filled with rocks and then later covered with stone to the contractor specifications of +4'. Luhr Bros. completed work in this area on 07 OCT 01 and placed 3,156 Tons of stone and 1,158 SY of fabric. On 10 OCT 01 Luhr Bros. moved their equipment to the Lake Sand Closure and began placing fabric and rock using the same method as mentioned above. Due to problems encountered with closure #4, it was decided to extend the Lake Sand Closure to the West about 1000' and by doing so incorporated the closure at site #4. This section was completed on 09 NOV 01, which took 33,046 Tons of stone,

(26,737 Tons for the original closure and 6,309 Tons for the extension) and 18,924 SY of fabric (14,648 SY for the original and 4,276 SY for the extension). There was also a problem encountered at closure #2. Since the original design, the channel in this location had deepened. The original contract called for this closure to be done with mud taken from the existing channel bottom but the depth of the water was too great. It was decided that the dike be changed from an earthen closure to one constructed of stone and placed approximately 200' from it's original location. Luhr Bros. used the 330 excavator to place the fabric and stone in this area. The 375 excavator was used to shuttle the stone from one side of the barge to the other for the 330 to reach it. Work on this site began on 07 Nov 01 and was completed on 09 NOV 01 using 2,954 Tons of stone and 746 SY of fabric. The fleet was then moved to the North side of the island where the contractor first began work on closure #6. Contractor placed 1,478 SY of fabric on 13 NOV 01, and completed this closure on 16 NOV 01 by using the 375 excavator with the assistance of the 330 excavator. 4,279 Tons of stone was placed at this site. On 17 Nov 01, the 4600 began placing fabric and stone at site #7. There was 4,102 Tons of stone and 971 SY of fabric placed on site #7 which was completed on 21 NOV 01. On 18 NOV 01 the 4600, and when available the 375 excavator with the 330 excavator, was used to place stone and fabric on the Shoreline Protection area. Contractor placed 19,333 Tons of stone and 8,554 SY of fabric in this area, which he completed on 05 DEC 01. On 21 NOV 01, the subcontractor Rene Cross, mobilized on site to begin driving the painted steel sheet piles on closure #5. The sheet pile crew began driving the piling on 22 NOV 01 using a 408 Linkbelt Crane and an ICE vibratory hammer. The work was completed on 26 NOV 01 at which time the pile driving crew demobilized from the site. Rene Cross drove 11,600 SF of sheet pile (290') at closure #5. On 25 NOV 01 Luhr Bros moved to closure #5 and began closing the ends of the piling to the land using the 375 and the 330 excavators. All work on #5 was completed on 01 DEC 01 with 4,626 Tons of stone and 1,096 SY of fabric placed. On 26 NOV 01 Luhr Bros. mobilized to the site a marsh buggy to begin constructing the earthen closure at site #9. The marsh buggy worked on getting the dike constructed for three days but was unable to get the material to stand up to the required elevation of +3.0'. The highest elevation achieved was to a +1.5'. After bringing this to the attention of the ACO and after visiting the site, it was agreed to accept it as constructed. Work on site #9 was completed on 28 NOV 01 at which time there was 1,200 CY of earthen fill satisfactorily placed. On 06 DEC 01 the fleet was moved to the East side of the island where the sub contractor Luhr Bros., began setting up to accomplish the foreshore protection work. On 07 DEC the 375 and the 330 excavators were moved to the foreshore protection site and began placing fabric and rock. On 12 DEC 01 the foreshore protection was completed using 6,577 Tons of stone and 1,876 SY of fabric. Also on 12 DEC 01 a final inspection was performed, and the job was accepted and the sub contractor Luhr Bros. began demobilizing from the site.

A final breakdown of the quantities is as follow:

#3 Closure	Stone	3,156 Tons	Fabric	1,158 SY
Lake Sand	Stone	26,737 Tons	Fabric	14,648 SY
Lake Extension	Stone	6,309 Tons	Fabric	4,276 SY
#2 Closure	Stone	2,954 Tons	Fabric	746 SY
#6 Closure	Stone	4,279 Tons	Fabric	1,478 SY

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#7 Closure	Stone	4,102 Tons	Fabric	971 SY
Shoreline Pro.	Stone	19,333 Tons	Fabric	8,554 SY
#5 Closure	Stone	4,626 Tons	Fabric	1,096 SY
Foreshore Pro.	Stone	6,577 Tons	Fabric	1,876 SY
Totals	Stone	78,576 Tons	Fabric	34,803 SY
	Sheet Pile	11,600 SF		

7. **MODIFICATION:**
There were two modifications to the contract: -
1. The first modification to the contract was to extend the Lake Sand Closure an additional 1,000'.
2. The second modification was to change the earthen closure at site #2 to Stone.

8. **CLAIMS:**
There are no claims pending at this time.

9. **SAFETY/ACCEDENTS:**
Tacon Company, Inc., and his subcontractor submitted a Safety Plan, which was followed in a satisfactory manner. The contractor held weekly safety meetings and did daily safety inspections on his equipment before that day of work began. The contractor also held monthly safety meetings for all supervisors and key personnel.

10. **PROBLEMS ENCOUNTERED/SOLUTIONS:**
The contractor did have some problems with low water conditions, which slowed his operation because his equipment either had to dig more flotation or was unable to get stone to the site.

11. **EEO GOALS:**
The prime contractor and his subcontractor had minorities employed throughout the duration of the contract.

12. Attached is a copy of the contract drawings indicating the as built conditions and any deviations from the contract specifications and/or drawings.

INCL.
(as built)

For Joseph S. Chaisson
19 Dec 01

Construction Inspector

CF:
CEMVN-CD-C
CEMVN-CD-QM
CEMVN-CT
CEMVN-PA
CHAISSON
BENOIT
CEMVN-CD-LA-E
CEMVN-CD-LA-FILE