FILE FOLDER

DESCRIPTION ON TAB:

7542/20A BMAR/CONTR

REQ (1986)

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PERM. SECNAVINST 5212.5D
Part II, par 2, SSIC
Until superseded

UTILITY CONTRACTS UNDER DESIGN

85-6400	Replace Sewer Mains (MCAS-MOQ), Replace Water Main (Amphib Area), Replace Piping and Install Backflow Preventors (1700, AS4151, M230, G650, FC202, BA106, 2615)
85-6302	Replace Control Cable to Five Wells (BB)
85-6304	Replace Auxiliary Engine (TT-39A)
85-6326	Paint Interior (AS-110)
85-6329	Paint Interior (20)
85-6383	Enclose H_20 Tanks (BB-190, RR-85)
85-6407	Install Bulk Chlorine Tanks (20, TT-35, TC-563)
85-6425	Replace Roof, Windows; Paint Int/Ext (M-625)
85-6439	Replace Boilers (LCH4014, LCH4022, AS3502, CG-1)
85-6440	Replace Four Feedwater Pumps (1700)
85-6441	Replace Auxiliary Engines (RR-85, BB-221, LCH4007, 610)
85-6445	Replace Mechanical Equipment (670)
85-6446	Replace Metering Equipment (BB-190) Replace Temperature Controls (22, TT-35, TC-563)
85-6453	Remove Asbestos (1700)
86-5427	Replace Roof (BA106)
86-5446	Replace Steam Pits (TC Area)
86-5489	Replace Crane (1700, 22)
86-5504	Replace Pump Control Cable (BA138)
86-5551	Replace Gillotine Gates (1700)
86-5554	Demo Chimneys (BA106, M625) Replace Auxiliary Generators (BB190, BA160)
86-5580	Replace Drying Bed Walls (M136, BB4, SBA127, SRR-67) Pig Raw Water Lines (20, 670) Replace Trickling Filter Distributor (BA160)

82-4663	Replace Water Reservoir Top (TT)
83-5876	Auxiliary Generator Buildings
86-5444	Replace Boilers (TT2457, TT2475, TT2455)
86-5590	Replace Roof (2615) Replace DA Tank (2615)
86-5426	RPL ROOF (TT-35, 670)
5483	RPL ELECT. DIST. POLES, WALLACK CREEK

UNITED STATES MARINE CORPS
Base Maintenance Division
Marine Corps Base
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO
11000
MAIN
29 JUL 1986

From: Base Maintenance Officer, Marine Corps Base, Camp Lejeune
To: Commanding Officer, Marine Corps Air Station, New River
(Attn: S-4 Officer)

Subj: MINOR CONSTRUCTION PROGRAM

1. It is requested that consideration be given to including the below listed projects in the Air Station FY87 Minor Construction Program:

a. Priority #1

(1) Description: Pest Control Shop. Construct a 20'x 20' concrete masonry permanent structure to include a mixing room, dressing room with shower, and a storage room for both equipment and pesticides. This structure must meet current OSHA and NAVFAC safety requirements.

(2) Estimated cost: $80K

(3) Justification: The previous area utilized for mixing and storing pesticides utilized by pest controllers assigned to the MCAS Detachment does not meet OSHA and NAVFAC safety standards. Its use has been discontinued. Presently, pesticides must be mixed and stored at the Mainside facility and transported to the Air Station, resulting in a considerable amount of lost time. Adequate facilities at the Air Station are necessary to enable Base Maintenance to provide adequate support.

b. Priority #2

(1) Description: Install water line to AS4040, AS3526, AS4125 and AS517.

(2) Estimated cost: $7K

(3) Justification: These facilities are sewage lift stations which cannot be maintained and cleaned as required without water. This deficiency has been identified as a sanitation discrepancy in past industrial hygiene inspections.

c. Priority #3

(1) Description: Construct oxygen, acetylene and freon storage shed 16' x 24'. This facility requires individual areas for full and empty cylinders, a total of six 8' x 8' bins. A roof is required to protect cylinders from the elements.

(2) Estimated cost: $7K

Copy to 83184 8/1186

(3) Justification: An adequate storage facility for both full and empty oxygen, acetylene and freon bottles to meet OSHA safety and security requirements is necessary. No such area currently exists.

d. Priority #4

(1) Description: Construct a 40' x 50' pre-engineered storage building (2000 SF) for the Grounds Maintenance Section.

(2) Estimated cost: $40K

(3) Justification: This facility is required to replace the temporary structures AS128 (308 SF) and AS623 (120 SF) to provide dry storage for materials, small items of equipment and oil spill containment equipment/materials. Seed, fertilizer, straw, lime, etc. must be kept dry to prolong usefulness and for security purposes.

e. Priority #5

(1) Description: Install overhead mezzanine in electrical, plumbing and air conditioning shops in Building AS122.

(2) Estimated cost: $21K

(3) Justification: By installing the mezzanines for overhead storage, valuable shop space now being used for storage of pre-expended bin stock and special operating stock materials can be freed for necessary additional shop space.

2. The inclusion of the foregoing projects in your FY87 Minor Construction Program would be greatly appreciated and would enhance the ability of Base Maintenance to provide support to your command and to the tenants at the Air Station.

M. G. LILLEY

Blind copy to:
Dir, M&R
Dir, Opns
Dir, Util,
GenFore, MCAS Det

OPNAV 5216/144A (Rev. 8-81)
S/N 0107-LF-052-2320

DEPARTMENT OF THE NAVY

Memorandum

11000
MAIN

DATE: 29 JUL 1986

FROM: Director, Operations Branch

TO:

Director, Utilities Branch

SUBJ: INSTALLATION OF EXHAUST FANS BLDG G-650

1. The subject work has been cost estimated at $3,110.00.

M. D. HARGAS
By direction

FILE BMKR.

JR

M1/R1 FY-86
CONTRACT PROGRAM

		M1	R1
M1/R1 Funds Authorized		6,230,412	2,363,395
Additional M1 Funds (LFF-2)	+	2,037,700	-----
(1,064,700 + 973,000)		8,268,112	2,363,395
Obligated R1/M1 Funds	-	4,919,207	- 1,002,977
		3,348,905	1,360,418
R1 Award FY-86			- 493,500
R1/M1 Award FY-86	-	1,305,000	- 696,700
M1 Award FY-86 (LFF-2 Funded	-	1,587,000	
		456,905	170,218

456,905
170,218

Funds Remaining 627,123

M1 Straddle FY-86/87 Contracts		3,546,000
R1/M1 Remaining Funds	-	627,123
Carry Over		2,918,877

FY-86 R1 AWARDED

Cont #	Description	CWE
85-5408	Hard/Sec/Install Platforms M-411/M412	$159,200
86-5478	Repair Office 1118	64,000
86-5479	Outdoor Classroom	75,000
86-5480	Mech/Elec.Improv TC-470	32,000
86-5510	Boat Facility (BB)	51,300
86-5420	Washrack Bldg 1450	97,700
85-6339	Ventilation System AS-4100 & AS-4106	14,300
		$493,500

R1/M1 AWARDED FY-86

Cont #	Description	R1 CWE	M1 CWE
86-5407	Rpr/Ren 202 (M1 LFF-2 Fas)	86,000	557,000
86-5411	A/C System Bldg 1041	69,000	10,500
86-5430	Upgraded Armories (Various Bldgs)	166,300	47,200
86-5431	Ren Child Care Center LCH 4025	92,100	88,500
86-5544	Rpr/Ren Various Bldgs	116,000	366,000
86-5442	Ren Various Bldgs	167,300	235,800
		696,700	1,305,000

M1 AWARDED FY-86
(LFF-2 PROVIDED FUNDS)

Cont #	Description	CWE
86-5423	Vinyl Siding (MP)	274,000
86-5424	Replace Roof (MCAS) AS-424 AS-515, AS-2002, AS-901	458,000
86-5427	Replace Roofs BA-103, BA-106, BA-144, 1108	241,200
85-84-7868	Rprs to Grease Traps	127,600
85-6397	Rewire Bldgs 84 & AS-202	487,000
		1,587,000

M1 STRADDLE CONTRACTS 86/87

Cont #	Description	CWE
86-5406	Rprs Bldg 121	179,600
86-5426	Replace Roofs CG, LCH, HF	435,700
86-5474	Replace Roof G-640	297,000
86-5504	Replace Control Cable SBA-108 to BA-138	20,000
86-551	Replace Roof H-1	137,000
86-5425	Replace Roof 1402, 1606	617,000
86-5445	Replace S&C and Asbestos Bldg 27	30,000
86-5489	Replace Crane Hoists 679 & 1700	24,000
85-6302	Control Cable to Five Wells	22,800
85-6336	A/C AS-710, TC-910, TC-1038, TC-1059, M-217, M-218, M-220	261,000
85-6338	Condensate Line BA Area	88,500
85-6400	Replace Water/Sewer Mains/ Back Flow Preventors	162,000
85-6415	Exhaust System Bldg 25	4,300
85-6425	Replace Roof/Ext Rprs M-625	90,800
85-6439	Replace Boilers LCH 4014, LCH 4022, AS-3502, CG-1	109,000
85-6365	Electrical Distribution BA Area	106,000
85-6440	Replace Feed Water Pumps 1700	200,000
85-6441	Replace Auxiliary Engines	146,000
85-6452	Rpr HVAC Bldg #3	200,000
85-6453	Replace Asbestos Insulation Duct 1700	220,000
84-7896	Replace S&C BB	199,300
		3,546,000

11300
MAIN

9 May 86

Director, Utilities Branch

Base Maintenance Officer

PROPOSED R-1 PROJECTS

1. The following list of R-1 projects is submitted for your consideration:

a. Install four new drying beds, TT-35.	$95,000
b. Install visual and audible alarms for explosive gas/insufficient oxygen; install explosive proof exhaust fans ducted to floor in digestor rooms, Buildings 22, TT-35, TC-563.	$50,000
c. Extend security fence at Building 1700 around bulk chemical tanks; install eyewash stations near tanks and in lab areas; install water line to bulk tanks; install two area lights near tanks.	$65,000
d. Install treated water line to sanitary landfill.	$ 6,000
e. Install 10' x 10' block paint lockers, Buildings 20, 670, AS-110, TC-563, 22.	$25,000
f. Install miscellaneous guard rails in Building 1700 and various sewage plants.	$40,000
g. Install bar screens and comminutors and new parshall flume at Onslow Beach Sewage Plant, BA-160.	$50,000
h. Install new exhaust fans with ducts to floor in various water and sewage plants and swimming pools.	$65,000

G. S. JOHNSON, JR.

30 X 40 BUILD
@ 670 # 30,000

FILE Bmain

4280
MAIN

30 APR 1986

Base Maintenance Officer, Marine Corps Base, Camp Lejeune

Public Works Officer, Marine Corps Base, Camp Lejeune

M-1 PROJECT 5C11 REPLACE DEAERATOR/CONDENSATE RECEIVER TANK

Encl: (1) BMO ltr 4330 MAIN dtd 14 Sep 84

1. As discussed in the telephone conversation on 25 April 1986, between Sue Jarman, Public Works, and Greg Shoemaker, Base Maintenance, it is requested that the subject project be combined with Project 7C02, Repair Exterior of Bldg. 2615.

2. M-1 Funds will be provided.

3. Point of contact is Greg Shoemaker, Base Maintenance, x5809.

W. M. RICE

Copy to:
Dir of Utilities

Writer: G. Shoemaker, MAIN, X5809
Typist: F. Walters, 29 Apr 86

30 APR 1986

Written: G. Shoemaker, MAIN, X5809
Typist: F. Walters, 29 Apr 86

UNITED STATES MARINE CORPS
Base Maintenance Division
Marine Corps Base
Camp Lejeune, North Carolina 28542

IN REPLY REFER TO
4330
MAIN
14 Sep 84

From: Base Maintenance Officer
To: Public Works Officer

Subj: ADDITIONAL M-1 PROJECTS FOR FISCAL YEAR 1985

Encl: (1) Ten Additional M-1 Projects for Fiscal Year 1985

1. The following M-1 Projects are requested to be prepared for award in Fiscal Year 1985:

File Number	Description
5C04	Install Control Cable from Courthouse Bay to 5 Wells; $100,000
5C05	Replace Sewage Flow Meters, TT-35 & TC-563; $18,000
5C06	Replace Auxiliary Engine, TT-38; $6,000
5C07	Repair Water Well, HP-615; $75,000
5C08	Replace Water Equipment, AS-110; $15,000
5C09	Replace Boiler, TC-563; $25,000
5C10	Replace Influent Line, TC-563; $25,000
5C11	Replace Make-up Tank, BOQ 2615; $15,000
5C12	Replace Blowdown Pit & Make-up Tank, BA-106; $25,000
5C13	Replace Boiler, A-1; $80,000

2. M-1 funding for projects requested in the enclosure will be provided upon request.

3. Base Maintenance point of contact is Mr. G. Johnson, Jr. (ext. 5161).

J. L. Sellers

J. L. SELLERS
By direction

Encl (1)

File #3011

SUGGESTED PROJECT

Project Title: Replace Makeup Tank at BOQ 2615

Estimated Cost: $15,000

Project Purpose: Replace deteriorated metal tank

Project Description: Tank to include feedwater heater complete with steam coil and all necessary piping and regulators. Replace all piping, valwes to feedwater pumps.

Justification or Remarks: Tank has been patched to stoop leaks.

ENGINEERING SERVICE REQUEST (ESR)
NAVFAC 11000/7 (4-78)
Supersedes NAVDOCKS 2038
S/N 0105-LF-010-0035

Instructions on Reverse

Copy No.

SECTION A FOR USE BY REQUESTER

1. FROM (Activity and location)
Base Maintenance Officer

2. TO
Public Works Officer

3. REFERENCE(S)

4. ESR IDENTIFICATION NUMBER (if applicable)
M-1 Project #6C154

5. ENCLOSURE(S) (check)
☐ NAVCOMPT 140
☐ NAVCOMPT 2038
☐ NAVCOMPT 372
XX OTHER (specify)
Scope of work with cost est.

6. TYPE OF FUNDING (check)
☐ O&MN
☐ NIF
☐ NAF
X OTHER (specify)
M-1

7. TYPE OF SERVICES REQUESTED
Misc. Utility repairs (Basewide)

8. DESIRED COMPLETION DATE
FY-87

9. DESCRIPTION OF WORK
See enclosed scope of work

Est. cost $512,200

M-1 Funds Will Be Provided

10. FOR INFORMATION CONSULT (Name)
Huffman

11. OFFICIAL REPRESENTATIVE (Name)

5809

SECTION B FOR USE BY EFD

1. SCOPE OF SERVICES

SECTION C INTERIM ENDORSEMENT

1. REMARKS

2. EST. COMPLETION DATE

3. AUTHORIZED REPRESENTATIVE (Signature)

4. DATE

SECTION D FINAL ENDORSEMENT

1. ENCLOSURE(S)
☐ DRAWINGS AND MAPS ☐ SPECIFICATIONS ☐ REPORT
☐ OTHER (specify)

2. EST. COST (if applicable)
$

3. AUTHORIZED REPRESENTATIVE (Signature)

4. DATE OF COMPLETION

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From JB

ENGINEERING SERVICE REQUEST (ESR)
NAVFAC 11000/7 (4-78)
Supersedes NAVDOCKS 2038
S/N 0105-LF-010-0035

Instructions on Reverse

Copy No.

SECTION A FOR USE BY REQUESTER

1. FROM (*Activity and location*)
Base Maintenance Officer

2. TO
Public Works Officer

3. REFERENCE(S)

4. ESR IDENTIFICATION NUMBER (*if applicable*)
M-1 Project #6C154

5. ENCLOSURE(S) (*check*)
☐ NAVCOMPT 140
☐ NAVCOMPT 2038
☐ NAVCOMPT 372
XX OTHER (*specify*) Scope of work with cost est.

6. TYPE OF FUNDING (*check*)
☐ O&MN
☐ NIF
☐ NAF
X OTHER (*specify*) M-1

7. TYPE OF SERVICES REQUESTED
Misc. Utility repairs (Basewide)

8. DESIRED COMPLETION DATE
FY-87

9. DESCRIPTION OF WORK
See enclosed scope of work

Est. cost $512,200

M-1 Funds Will Be Provided

10. FOR INFORMATION CONSULT (*Name and phone*)
Huffman 5809

11. OFFICIAL REPRESENTATIVE (*Signature*)

12. DATE

SECTION B FOR USE BY EFD

1. SCOPE OF SERVICES

2. DATE RECEIVED

3. ESR NUMBER

SECTION C INTERIM ENDORSEMENT

1. REMARKS

2. EST. COMPLETION DATE

3. AUTHORIZED REPRESENTATIVE (*Signature*)

4. DATE

SECTION D FINAL ENDORSEMENT

1. ENCLOSURE(S)
☐ DRAWINGS AND MAPS ☐ SPECIFICATIONS ☐ REPORT
☐ OTHER (*specify*) _____

2. EST. COST (*if applicable*)
$

3. AUTHORIZED REPRESENTATIVE (*Signature*)

4. DATE OF COMPLETION

COPY TO

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 1-22-86

SHEET OF

ACTIVITY AND LOCATION: M-136, BB-4, SBA-127, SRR-67, 20, 670, BA-160

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

ESTIMATED BY: Huffman

CATEGORY CODE NUMBER

PROJECT TITLE: Civil Contracts

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☐ Other (*Specify*) _____

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
BASIC TOTAL				51,002		262,382		313,384
Overhead 15%								47,008
Labor 18%								47,229
Material 4.5%								11,475
SUBTOTAL								419,096
Profit 10%								41,909
SUBTOTAL								461,006
Bond 1%								4,610
SUBTOTAL								465,616
Contengency 10%								46,561
Basic Cont Cost								512,178
GRAND TOTAL (ROUNDED)								512,200

S/N 0105-LF-010-1335

☆U. S. Government Printing Office: 1981—505-106/7227 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 12-19-85

SHEET OF

ACTIVITY AND LOCATION: M-136

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

ESTIMATED BY: James Sawyer

CATEGORY CODE NUMBER

PROJECT TITLE: Sewage Trmnt. Dry Bed Replace

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☐ Other (*Specify*) _____

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Demo Block Walls	2,985	S.F.	.15	448.	.09	269.	.24	716
Fabricate & Install Concrete	5,970	S.F. C.A.	1.28	7,642	2.57	15,343	3.85	22,984
Poured Type Walls	57	YD	51.10	2,913				2,913
TOTALS				11,003		15,612		26,615

☆U. S. Government Printing Office: 1981—505-106/7227 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 12-19-85

SHEET OF

ACTIVITY AND LOCATION: BB-4

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

ESTIMATED BY: James Sawyer

CATEGORY CODE NUMBER

PROJECT TITLE: Sewage Trmnt. Dry Bed Replace

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☐ Other (*Specify*) _____

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Demo. Block Walls	920	S.F.	.15	138	.09	83	.24	221
Fabricate & Install Concrete	1,380	S.F. C.A.	1.28	1,766	2.57	3,547	3.85	5,313
Pour Type Walls (6" Walls)	14	YD	51.10	715				715
TOTALS				2,619		3,630		6,249

☆U. S. Government Printing Office: 1981—505-106/7227 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 12-19-85

SHEET OF

ACTIVITY AND LOCATION: SBA-127

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

ESTIMATED BY: James Sawyer

CATEGORY CODE NUMBER

PROJECT TITLE: Sewage Trmnt. Dry Bed Replace

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☐ Other (*Specify*) _____

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Demo. Block Walls	480	S.F.	.15	72	.09	43	.24	115
Fabricate & Install Concrete	960	S.F. C.A.	1.28	1,229	2.57	2,467	3.85	3,696
Poured Type Walls (6" Walls)	9	YD	51.10	460				460
TOTALS				1,761		2,510		4,271

☆U. S. Government Printing Office: 1981—505-106/7227 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 12-19-85

SHEET OF

ACTIVITY AND LOCATION: SRR-67

PROJECT TITLE: Sewage Trmnt Dry Bed Replace

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

ESTIMATED BY: James Sawyer

CATEGORY CODE NUMBER

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☐ Other (*Specify*) _____

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Demo. Block Walls	920	S.F.	.15	138	.09	83	.24	221
Fabricate & Install Concrete	1,380	S.F. C.A.	1.28	1,766	2.57	3,547	3.85	5,313
Poured Type Walls (6" Walls)	14	YD	51.10	715				715
TOTALS				2,619		3,630		6,249

☆U. S. Government Printing Office: 1981—505-106/7227 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED 1-3-86

SHEET OF

ACTIVITY AND LOCATION
BA-160

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

ESTIMATED BY
Huffman

CATEGORY CODE NUMBER

PROJECT TITLE DISTRIBUTOR
Replace Distribution on Trickling Filter

STATUS OF DESIGN
☐ PED ☐ 30% ☐ 100% ☐ FINAL ☐ Other (*Specify*) _____

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Replace Distribution on Trickling Filter	1	EA		8,000		12,000		20,000

S/N 0105-LF-010-1335

☆U. S. Government Printing Office: 1981—505-106/7227 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 1-3-86

SHEET OF

ACTIVITY AND LOCATION: 20 & 670

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

ESTIMATED BY: Huffman

CATEGORY CODE NUMBER

PROJECT TITLE: Clean Raw Water Lines to Buildings

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☐ Other (*Specify*) _____

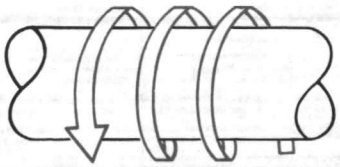
JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Clean all Raw Water Lines to Buildings 20 & 670 by Pigging Tag Lines				25,000		225,000		250,000

S/N 0105-LF-010-1335

☆U. S. Government Printing Office: 1981—505-106/7227 2-1

FILE BMARK
651



EAST COAST SEALING SYSTEMS, INC.

A.W. **CHESTERTON**® DISTRIBUTORS

March 13, 1986

Dear Junior Johnson,

Thank you for your time yesterday. Hopefully you have received the copy of the pump specification reprint. I believe that you will find them useful.

The contact person for Grissom Air Force Base is:

Smedly Graham - Superintendent Heat Plant
(317) 689-3253.

Enclosed you will find a computer print out of the pump application. These figures were confirmed with Linda Stormont, application engineer for Chesterton System One pump division.

The total price per pump is: $7592.82. This price may ~~very~~ be lower if you choose a different or not choose to use the base plate.

If you need any further assistance or have any questions please feel free to give me a call.

Sincerely

Bill Betts

CORPORATE OFFICE
P.O. BOX 13007
FLORENCE, S.C. 29504
1-803-669-5458

SALES OFFICE
4020 BARRETT DRIVE
RALEIGH, N.C. 27609
1-919-834-2920

SALES OFFICE
213 NORTH SECOND STREET
WILMINGTON, N.C. 28402
1-919-762-1297

SALES OFFICE
P.O. BOX 17201
GREENVILLE, S.C. 29606
1-803-877-1936

PUMP QUESTIONAIRE

1-CUSTOMER NAME	?	LEJEUNE
2-FLOW IN U.S. GPM ..	?	367
3-HEAD IN FEET	?	650
4-SPEED IN RPM	?	3550
5-LIQUID SPECIFIC GRAVITY	?	.96
6-LIQUID TEMPERATURE IN FAHRENHEIT.....	?	225
7-LIQUID VISCOSITY IN CENTIPOISE		N/A
8-SOLIDS IN LIQUID %		N/A

WOULD YOU LIKE TO CHANGE DATA (Y/N)

PUMP QUESTIONAIRE

```
1-CUSTOMER NAME ..... : ? LELEUNE
2-FLOW IN U.S. GPM .. : ? 367
3-HEAD IN FEET ..... : ? 650
4-SPEED IN RPM ..... : ? 3550
5-LIQUID SPECIFIC
  GRAVITY ..... : ? .96
6-LIQUID TEMPERATURE
  IN FAHRENHEIT..... : ? 225
7-LIQUID VISCOSITY
  IN CENTIPOISE ..... : N/A
8-SOLIDS IN LIQUID % : N/A
```

WOULD YOU LIKE TO CHANGE DATA (Y/N)

DEAR LEJEUNE,

WE ARE PLEASED TO OFFER YOU OUR

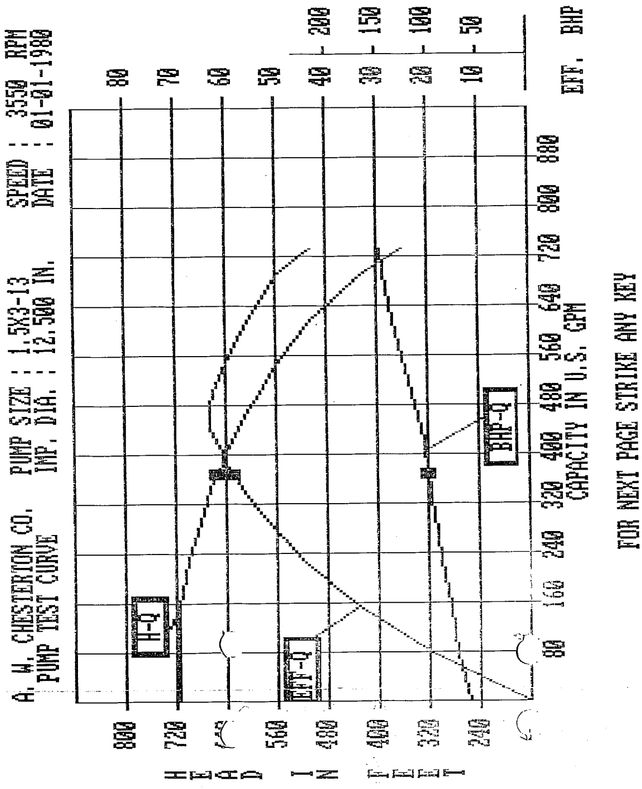
CHESTERTON 1.5X3-13 PUMP TO MEET

YOUR PUMPING REQUIREMENTS OF

650 FEET HEAD AND 367 U.S. GPM

FLOW AT A SPEED 3550 RPM.

FOR NEXT PAGE STRIKE ANY KEY



A. W. CHESTERTON
ADVANCED SYSTEMS DIVISION

CUSTOMER NAME : LEJEUNE

DATE : 01-01-1980
TIME : 00:56:39

PUMP SIZE	1.5X3-13	
SPEED	3550	RPM
CAPACITY	367	U.S. GPM
HEAD	650	FEET
IMPELLER DIAMETER CUT	12.50	INCHES
BEST EFF	63.1 %	
EFF. @ DESIGN POINT...	58.5 %	
TEMP. @ DESIGN POINT..	225	DEG. F.
SPECIFIC GRAVITY	.96	
LIQUID VISCOSITY	N/A	
SOLIDS IN LIQUID	N/A	

FOR NEXT PAGE STRIKE ANY KEY

MOTOR INFORMATION

POWER @ NON-OVERLOADING.....	148.3	HP
MOTOR SIZE @ NON-OVERLOADING.....	150	HP
POWER @ DESIGN POINT.....	99.5	HP
MOTOR SIZE @ DESIGN POI		
WITH SERVICE FACT	.25	HP

NPSH : 17 Feet

FOR NEXT PAGE STRIKE ANY KEY

MINOR CONSTRUCTION PROGRAM
REGULAR

BMAR

1. COMPONENT	FY 19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
MARINE CORPS		10 Mar 86

3. INSTALLATION AND LOCATION	4. PROJECT TITLE
MARINE CORPS BASE CAMP LEJEUNE, NC 28542	MATERIAL STORAGE WAREHOUSE FOR BUILDING 1700

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
	821-09	LE902R	196

ESCALATED TO APR 89

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TOTAL COST	LS	-	-	178
CONTINGENCIES 10%	-	-	-	18
TOTAL CONTRACT COST	LS	-	-	196
DESIGN COST 6%	-	-	-	11
TOTAL FUNDS REQUESTED	-	-	-	207

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct a pre-engineered metal building on a reinforced concrete slab with showers and restroom facilities, office, extend utilities, telephones and telephone switching equipment and security lighting.

11. REQUIREMENT:

PROJECT: Provide a pre-engineered metal building with an office and restroom facilities to store material adjacent to Building 1700.
REQUIREMENT: To provide additional warehouse storage.
CURRENT SITUATION: Material is being stored outside and being subjected to inclement weather conditions.
IMPACT IF NOT PROVIDED: Materials will continue to be damaged and incur additional replacement cost.

VALIDATION SCOPE — (DET.)

DD FORM 1 DEC 76 1391
S/N 0102-LF-001-3910

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

☆U.S. GOVERNMENT PRINTING OFFICE: 1979—603-076/3959 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 10 Mar 86

SHEET 1 OF 2

ACTIVITY AND LOCATION
MARINE CORPS BASE
CAMP LEJEUNE, NC 28542

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER: LE902R

ESTIMATED BY: F. W. ESTES, Jr.

CATEGORY CODE NUMBER: 821-09

PROJECT TITLE
MATERIAL STORAGE WAREHOUSE FOR BLDG 1700

STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ Other (*Specify*) Project

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
ERECT PRE-ENGINEERED METAL BLDG (80,000SF)	1	LS	9.00	72,000	3.00	24,000		96,000
CONSTRUCT RESTROOM FACILITY								
CMU PARTITION WALLS	150	SF	3.00	450	2.50	375		825
CERAMIC TILE SHOWER STALLS	2	EA	500	1,000	400	800		1,800
SHOWER DRAINS AND WATER	2	EA	90	180	40	80.00		260
SHOWER HEADS AND CONTROLS	2	EA	80	160	30	60		220
WATER CLOSETS, S.W.V. PIPING	3	EA	400	1,200	150	450		1,650
LAVATORIES, S.W.V. PIPING	2	EA	300	600	150	300		900
EXHAUST FAN	1	EA	-	500	-	120		620
PAINTING	1	LS	-	300	-	500		800
TOILET PARTITIONS & ACCESSORIES	1	LS	-	850	-	350		1,200
ELECTRICAL & LIGHTING	1	LS	-	600	-	300		900
OFFICE (10 x 10)								
PARTITION WALLS	100	SF	2.50	250	2.00	200		450
WINDOWS	4	EA	300	1,200	80	320		1,520
DOOR FRAME AND HARDWARE	1	LS	400	400	120	120		520
PAINTING	100	SF	0.15	15	0.25	25		40

☆ U.S. Government Printing Office: 1982—605-106/6911 2-1

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED: 10 Mar 86

SHEET 2 OF 2

ACTIVITY AND LOCATION: MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

CONSTRUCTION CONTRACT NO.:

IDENTIFICATION NUMBER: LE902R

ESTIMATED BY: F. W. ESTES, Jr.

CATEGORY CODE NUMBER: 821-09

PROJECT TITLE: MATERIAL STORAGE WAREHOUSE FOR BLDG 1700

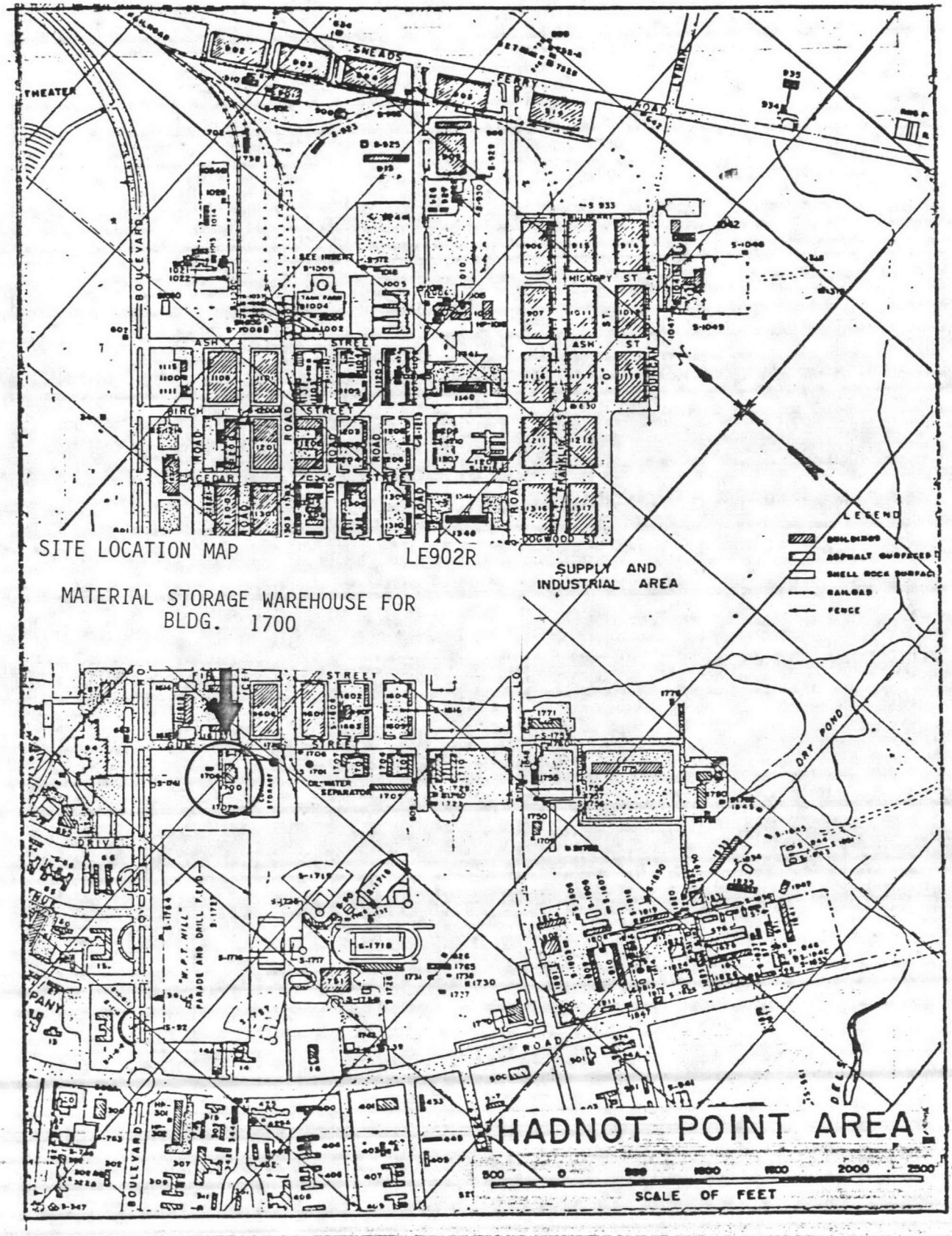
STATUS OF DESIGN: ☐ PED ☐ 30% ☐ 100% ☐ FINAL ☒ Other (Specify) Project

JOB ORDER NUMBER:

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
ELECTRICAL AND LIGHTING	1	LS	-	800	-	300		1,200
WATER DISTRIBUTION	300	LF	4	1,200	8	2,400		3,600
SANITARY SEWER	300	LF	4	1,200	8	2,400		3,600
ELECTRICAL DISTB. & SERVICE	1	LS	-	4,000	-	6,000		10,000
TELEPHONE SWITCHING EQUIPMENT	1	LS	-	700	-	600		1,300
SECURITY LIGHTING	1	LS	-	1,200	-	800		2,000
TOTAL COST				88,805		40,500		129,305
OVERHEAD 15%								19,396
TAXES, S.S., INC. 18% OF LABOR								7,290
SALES TAX 4.5%								3,996
SUBTOTAL								159,987
PROFIT 10%								15,999
SUBTOTAL								175,986
BOND 1%								1,760
SUBTOTAL								177,746
CONTINGENCIES 10%								17,775
TOTAL DESIGN 6%								195,521 11,731
TOTAL COST ESTIMATE								207,252

S/N 0105-LF-010-1335

☆ U.S. Government Printing Office:



SITE LOCATION MAP LE902R

MATERIAL STORAGE WAREHOUSE FOR BLDG. 1700

2/19/86

Called A. Young

Changed - 613 To LCH 4007

Changed - 603 To BB-221

610 - O.K. As is

Andy Said O.K. it would go To A+E firm - Contract # 6441

3/86 Filed

Dr. Sent original & P+E (Hoffman)

Daniel

FILE

BMAR JR

R- ... associated ... Plants

(1) ... leaving boiler trim: blow off valves, pressure gages, safety valves and associated piping - All blow down piping to be replaced from boiler to blowdown pit - Replace boiler breeching and stack - ... to be designed for compatibility

(2) Baily Net Work 90 and Steam flow meters to remain. New boiler regulators + combustion controllers to be compatible and functional with Baily Net work 90. Orifice plates + transmitters for steam meters to be reused if compatible -

(3) Replace existing duplex oil pumping station + heater set. Heater set to be combination electric + steam. Replace associated piping, valves, regulators from heater set to boiler fronts.

(4) Replace existing Deaerator tank, controls, regulators, valves + associated piping from make up tank to deaerator,

(5) Replace 3 Boiler feedwater pumps, valves + associated piping from pumps to the boilers. Two feed water pumps are electrical driven and one is steam driven. Replace steam driven feedwater pump with electrical driven pump. Provide new diesel generator sized to carry one Boiler feedwater pump, one Boiler, one oil pump, one condensate pump, one air compressor + emergency lights, to include automatic transfer switch -

Replace Boilers 83, 84 + 85 and associated mechanical equipment. G650 - Steam Plants

(1) 2 ea - 40,000 lb/hr boilers } with the following boiler trim:
1 ea - 25,000 lb/hr boiler } Steam stop Valves, feedwater regulators, blow off valves, Non-return valves, water level indicators, water columns, pressure gages, safety valves and associated piping - All blow down piping to the replaced from boiler to blowdown pit - Replace boiler breeching and stack -

(2) Bailey Net Work 90 and steam flow meters to remain. New boiler regulators + combustion controllers to be compatible and functional with Bailey Net work 90. Orifice plates + transmitters for steam meters to be reused if compatible -

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(6) Replace existing air compressors, air dryers, valves, & associated piping -

(7) Replace existing continuous blow down lines, valves & heat exchanger to include make-up water lines -

(8) Remove all asbestos insulation & replace with non-asbestos type -

(9) Water softeners & Chemical pumps to remain -

(10) Electrical wiring, breakers, & control center to be sized for new equipment and reused -

(11) Replace 2 feedwater transfer pumps, regulators, valves and piping from make-up tank & deaerator.

(12) Replace existing catwalks & new boilers & auxiliary equipment - Add new catwalk if needed

(13) Provide new energy monitoring and control system (EMCS) interfacing including associated equipment and appurtenances

(14) Replace existing boilers power control system -

(15) Estimated cost $1,500,000

11300
MAIN

10 Jan 86

Director, Utilities Branch

Director, Operations Branch

ADDITIONAL M-1 PROJECTS

1. It is requested that the following project be submitted to Public Works for design:

a. Replace existing service pump control cable from the elevated water tank (SBA-108) across the Intercoastal Waterway to the Onslow Beach Water Treatment Building (BA-138). The cable should be 12 guage, be buried at least 3' below the waterway bottom, and be enclosed in conduit if necessary.

Estimated Cost: $30,000

2. The existing cable was cut during the last week of December by a boat anchor. Since this water plant is unmanned, this cable is essential to provide automatic operation.

3. Please expedite to ensure adequate water and fire protection for the Onslow Beach Area.

G. S. JOHNSON, JR.

18 AUG 1986

6280
FAC

Environmental Engineer

Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune
Via: Facilities Management Officer

FY 87 OTHER ENGINEERING SUPPORT (OES) STUDY REQUIREMENTS

Ref: (a) CG MCB msg 041758Z Aug 86

Encl: (1) List of FY 87 OES Needs

1. I recommended the OES requirements per the enclosure. These were sent to CMC (LFF-2) per the reference. This list is based on FY 85 and FY 86 requirements which remain unfunded plus new initiatives:

Tank Trail Repairs - Environmental Study	$ 20K
Base-wide Asbestos Analyses	$100K
Groundwater Supply Study, Phase II	$114K
Underground Tank Monitoring Systems	$ 90K
New River Shore Protection Plan	$ 30K

2. Notably absent from this list are funding for the land acquisition EIS and the Range Master Plan, which I have addressed separately. Per discussions with Mr Hubbell, CMC (LFL), a number of the studies are both "facilities maintenance" and "environmental" in nature. He advised to include these in the response to LFF-2 and the CMC staff would sort them out.

3. CMC (LFL) advises FY 87 funding will likely be available for at least two FY 87 environmental studies. These were also submitted in the NREAD Annual Operations Plan: Onslow Beach Study, Phase II ($105K); and Historic Resources Protection ($140K).

4. We already have a draft scope of work for the beach project. As soon as funding is approved by HQMC, we'll get final contract scopes developed with milestones for your concurrence.

R. E. ALEXANDER

Copy to:
BMO
PWO
Dir, NREAD
Range Control Officer

18 AUG 1986

6280
FAC

Environmental Engineer

Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune
Via: Facilities Management Officer

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R. E. ALEXANDER

Copy to:
BMO
PWO
Dir, NREAD
Range Control Officer

d. Tasks:

(1) Describe the erosion processes and causes of erosion of the New River shoreline, and describe the erosion rates of the area calculated in feet per year.

(2) Identify the linear extent of significant erosion sites in priority categories.

(3) Describe structural and non-structural means of shoreline protection which can be employed as recommended by the Army Corps of Engineers.

(4) Identify environmental constraints/impacts associated with each alternative.

(5) Evaluate existing and proposed construction plans for FY 87/92 at MCB which will generate masonry rubble and recommend the most efficient use of the rubble for shoreline protection. (Information on estimated quantities of rubble to be generated by contractor operations through FY 88 will be provided by the ROICC.)

(6) Recommend erosion control measures for each identified site with a cost estimate and prioritized schedule of implementation. Cost estimate should address providing access to stabilization project areas.

(7) Prepare draft (five copies) and final reports (12 copies) containing results of tasks (1) through (6).

(8) Camp Lejeune points of contact for this study are Mr. Carl Baker, Public Works Division, Civil Engineering Branch (ext. 3238) and Mr. Bob Alexander, Environmental Engineer, Facilities Dept, ext. 3034.

FY 87 OTHER ENGINEERING SUPPORT REQUIREMENTS

1. Tank Trail Repairs - Environmental Study. Environmental design of four FY 87 M-2 projects (cost approximately $2.0 million) to renovate about 30 miles of tank trails is required during early stage of project development. Significant environmental problems in the form of erosion and impaired drainage have been caused due to lack of maintenance associated with these trails. Major renovation of these trails with earthwork, drainage, and clearing efforts requires approval of project plans by State and Federal environmental agencies.

2. Base-wide Asbestos Analyses. Proper identification of all asbestos in renovation projects is required during planning and design stages of project development. These anlyses are required by Federal Clean Air Act, OSHA, and by DOD directives to reduce unnecessary military construction cost growth due to asbestos removal.

3. Groundwater Supply Study, Phase II. The second of four phases of the ongoing study will be done in FY 87 to define groundwater aquifer conditions with test drilling (500 to 600 feet deep). Test wells will be installed by the U.S. Geological Survey under the existing agreement initiated in FY 86. The twofold purpose of the study is to determine groundwater capacity to (1) assure future water supply needs can be met and (2) reduce potential for future groundwater contamination.

4. Underground Tanks Monitoring Systems. Tank monitoring is required by 1986 EPA regulations which must be initiated in FY 87. An estimated 30 tanks must be studied at an average cost of $3,000 each. Tank monitoring regulations are also being adopted by North Carolina groundwater agencies to prevent and detect underground spills of hazardous substances.

5. New River Shore Protection Plan.

a. Problem: The lack of shoreline erosion control of the New River with severe erosion in some areas continually takes land from the Marine Corps which could be used for military training and creates adverse environmental and aesthetically displeasing conditions.

b. Purpose: To protect the New River shore using engineered solutions which are within the resources of (a) ongoing programmed construction projects, and (b) Marine Corps Base maintenance capabilities, and/or eligible for Marine Corps funding.

c. Objective: Define requirements for shoreline stabilization of the New River with recommended erosion control measures. The requirements include using masonry rubble generated by proposed demolition of structures, associated with military construction projects, where applicable.