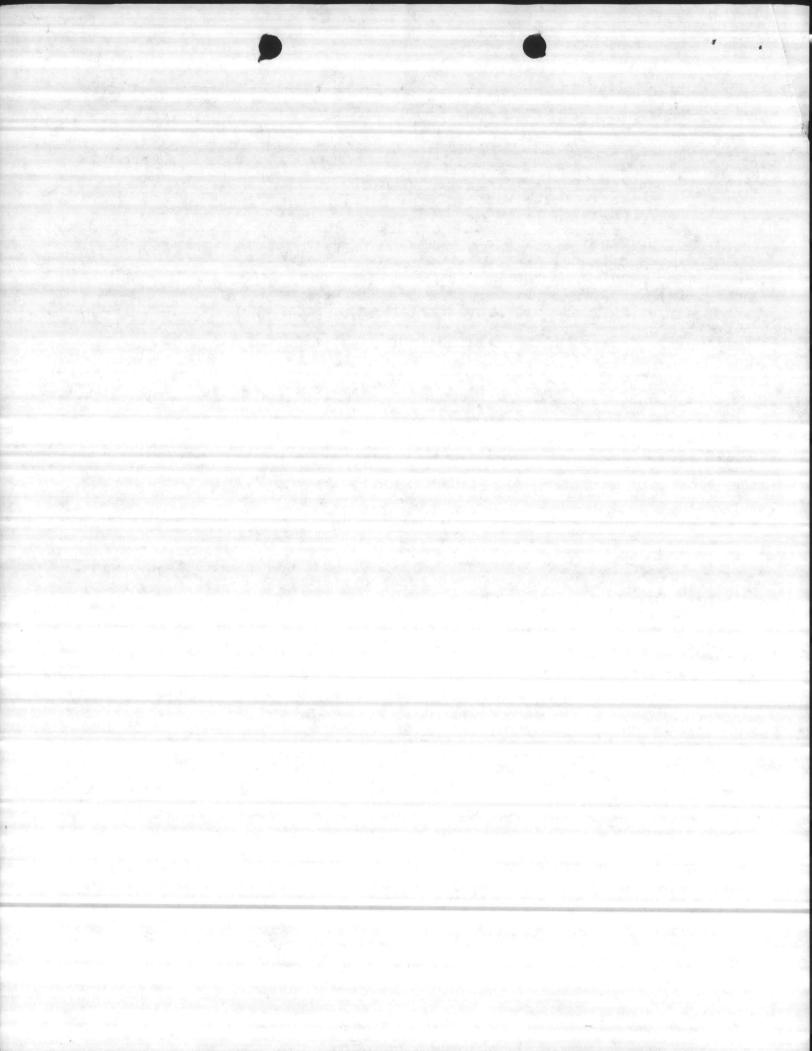
4280 MAIN

0 3 DEC 1987

- From: Commanding General, Marine Corps Base. Camp Lejeune To: Commandant of the Marine Corps (Attn: Capt Nimeth Code LFF-2B)
- Subj: SUPPLEMENTAL M2 PROJECT #LEGIEMS, REPAIR/REPLACE BOILERS AND EQUIPMENT, BLDG BB-9
- Ref: (a) PHORCON on 21 Oct 67 between Capt Himeth (LFF-2E), CMC, and Greg Shoemsker, Bhaint, MCB, CLNC
- Encl: (1) Updated 1391 with Scope/Estimate Sheets for H2 Project #LE818HS
- 1. As discussed during the reference, the updated supplemental M2 project is forwarded for your approval.
- 2. Expeditious approved to proceed with designs is respectfully requested.
- 3. Point of contact at Base Maintenance is Greg Shoemaker, Autovon 484-5794/5796.

M. G. LILLEY By direction

Blind Copy to:
PWO w/enclosure
Dir, UtilBr w/enclosure
Work Reception



1. COMPONENT	FY 19.88 MILITARY CONSTRUCTION PROJECT DATA								
3. INSTALLATION AND I Marine Corps Bas Camp Lejeune, NC	e	1		Replace Bont BLDG BE		s &			
5. PROGRAM ELEMENT	6. CATEGORY CODE 82109	7. PROJECT		8. PROJE	ст соs 45				
		OST ESTIMATI							
	ITEM		U/M	QUANTITY	COST				
Basic Cost Contingency 1	0%		LS	-	-	410.			
Total Project	Cost		LS	-		451.			
Design 6%			LS	_	1 -				
Total Funds H	Requested		LS		-	478.			

Replace boilers and equipment in steam plant Bldg. BB-9

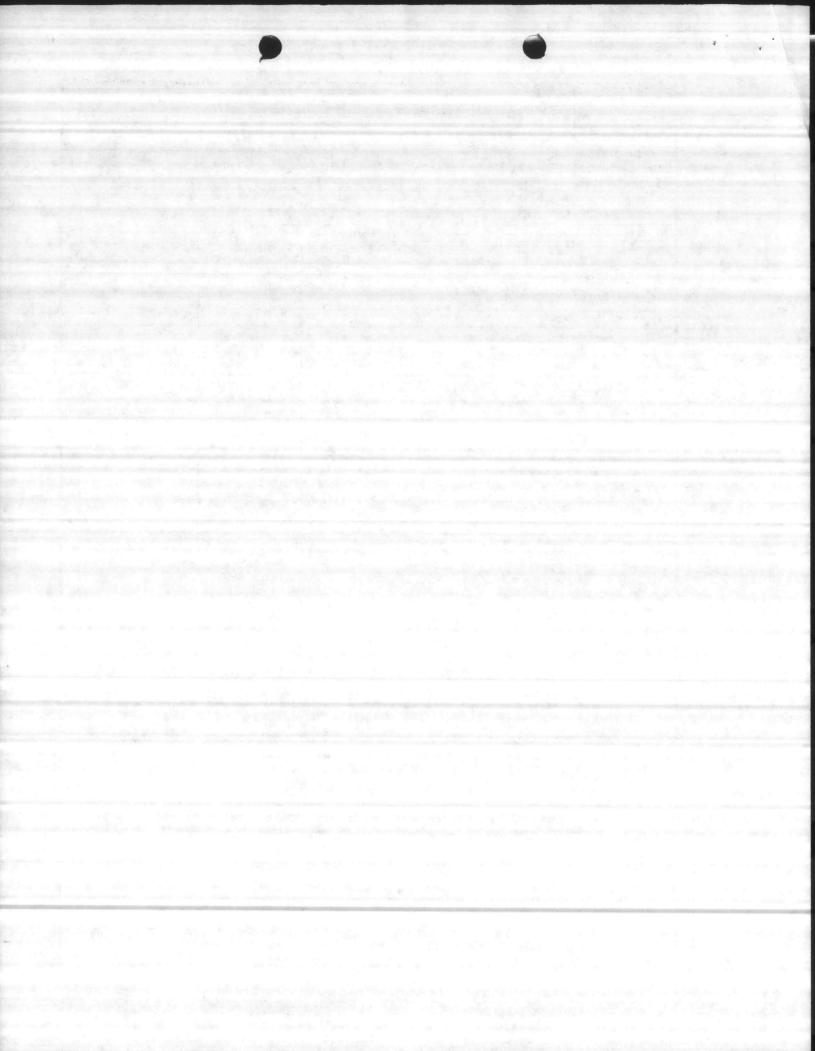
Requirements:

Project:

Replace boiler #55, repair boiler #53, replace controls, regulators, guages, oil meters, cat walks, fans piping and other related equipment. Replace oil heater pump set, piping and regulators. Replace deteriorated window panels with roll up doors. Remove asbestos insulation completely. Replace (3) below ground 10,000 gallon oil tanks with one 30,000 gallon above oil tank, with berm, retaining wall, off loading pumps, steam coils and related piping and controls. Transfer pumps, steam flow meters, charts and orifice plates.

Requirement:

The replacement and repair of the boilers and associated equipment is necessary to provide a reliable heating plant for courthouse bay.



FY 19.88 MILITARY CONSTRUCTION PROJECT DATA

2. DATE
23 Nov. 1987

3. INSTALLATION AND LOCATION

Marine Corps Base, Camp Lejeune, NC

4. PROJECT TITLE

Repair/Replace Boilers and Equipment Bldg. BB-9

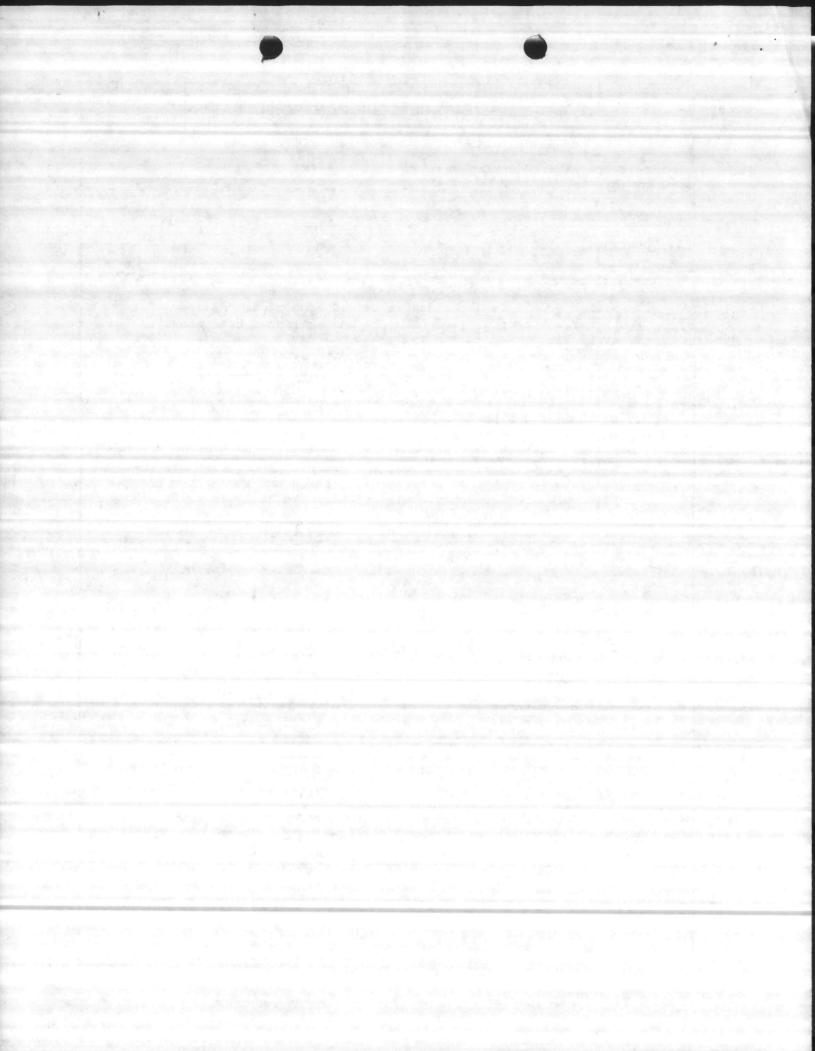
LE818MS

11. continued

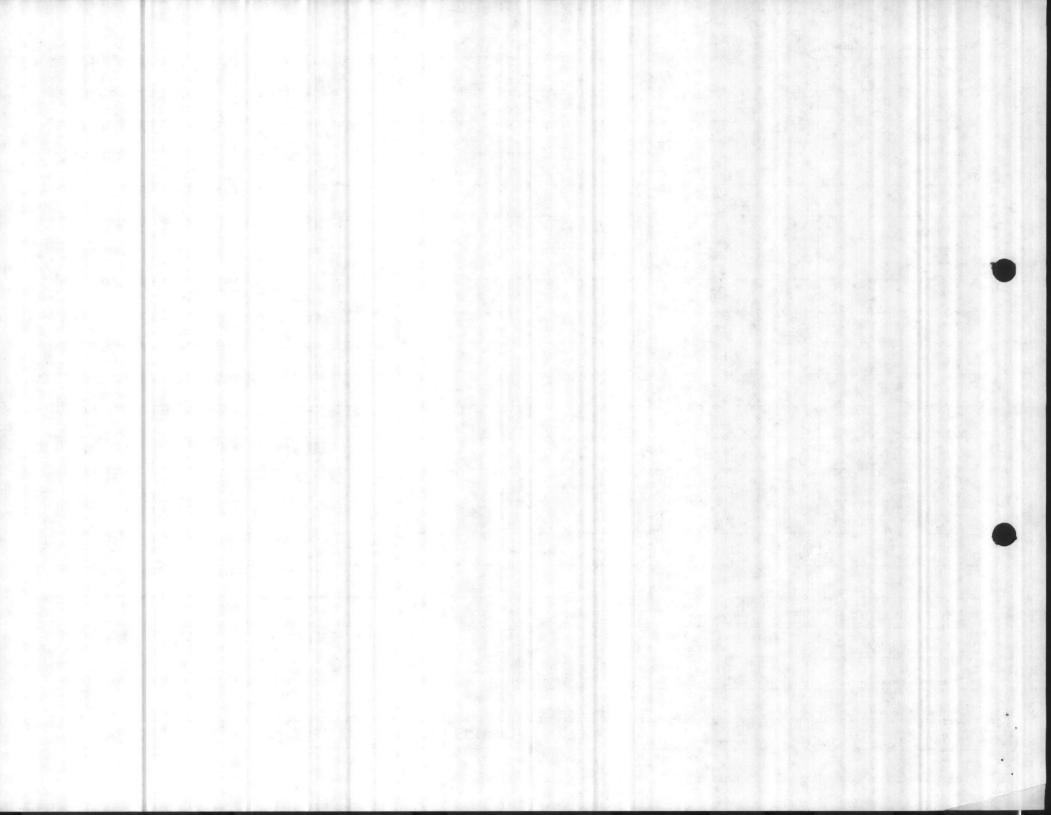
Current Situation:

- Boiler No. 55 is deteriorated beyond economical repairs. The burner and controls are obsolete and no longer have parts available.
- Blow down tank is excessively pitted and blowdown pipe has been patched.
- 3. Oil heater and pump set is worn from normal use and does not have the capability of the increased capacity of No. 55 boiler.
- 4. Boiler gases have leaked past the seals deteriorating the insulation and outer boiler casing. Casing and seals have been patched and welded previously. Boiler was built in 1978.
- 5. Roll up doors will give the needed room for boiler cleaning during the hot summer months in lieu of replacing deteriorated panels.
- Asbestos is old and friable and should be replaced due to personnel safety.
- Oil tanks are old and have the potential of leaking oil into the ground.
- 8. The existing pump is worn from normal use and should be replaced with a duplex set to prevent plant downtime during pump failure. Also, pump needs to be sized for the added capacity of No. 55 boiler.
- 9. Existing steam flow meters are old and do not have the turn down ratio for the varying summer/winter loads to give accurate readings.

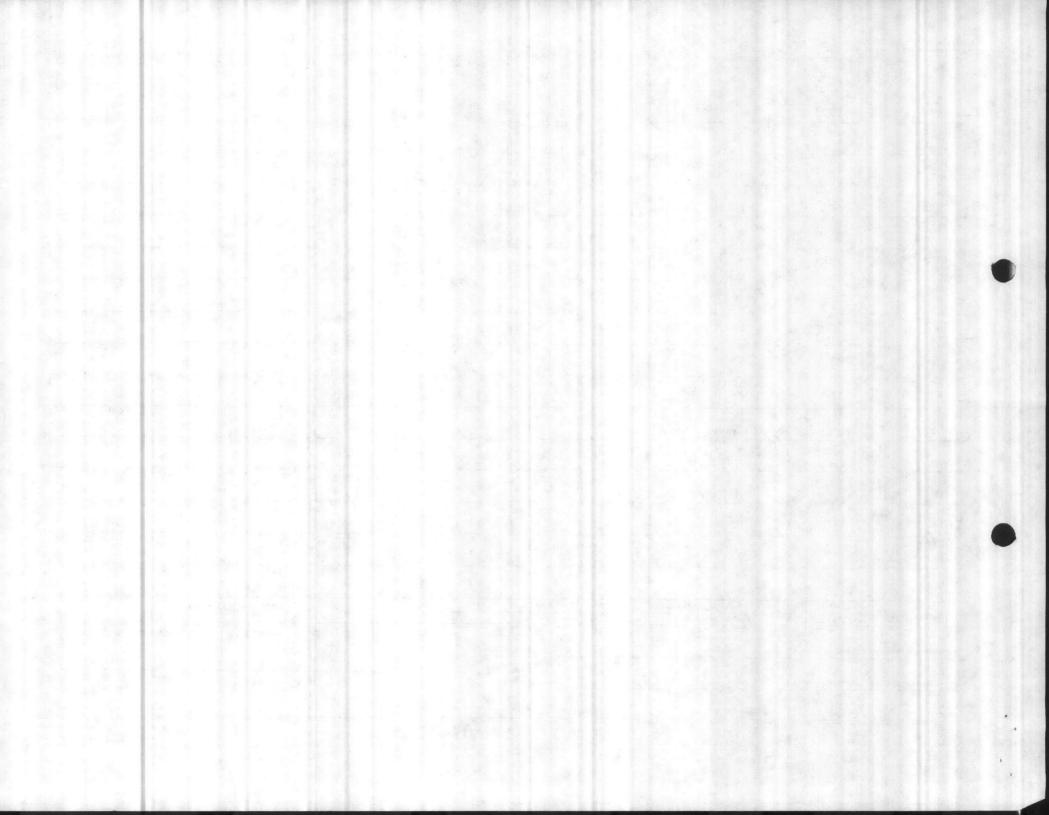
Impact If Not Provided: Steam Plant BB-9 will be unable to provide adequate steam to meet the demand for building heating requirements, domestic hot water, and messhall equipment, in the Courthouse Bay area.



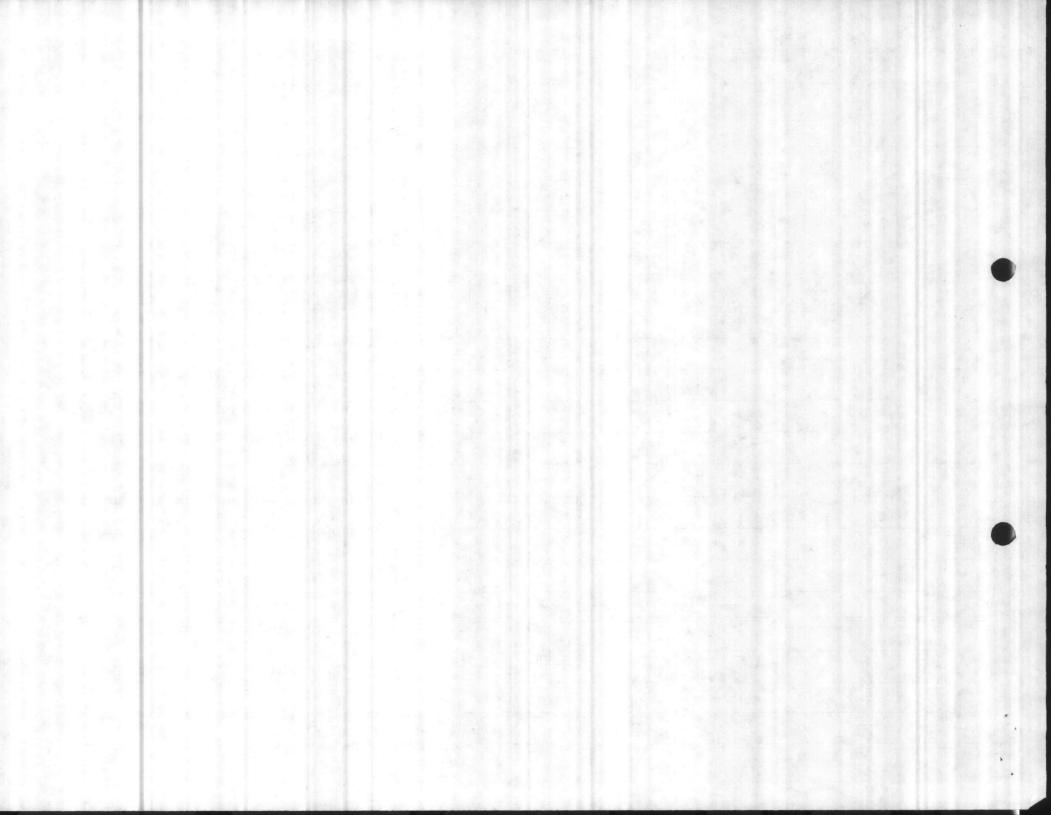
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST	STIM	ATE	8	A THE RESERVE AND A SECURITY OF THE PARTY OF	Nov. 1987	SHEET	1 . OF 4
ACTIVITY AND LOCATION				CONSTRUCTION C	ONTRACT NO.			IDENTIFIC	ATION NUMBER
Marine Corps Base, Camp L	ejeune, NC	E E		ESTIMATED BY				CATEGORY	Y CODE NUMBER
PROJECT TITLE Boiler and Steam Plant Re	pairs, Bldg. BB-9			Huffman STATUS OF DESIG	SN 0% 100% [FINAL Othe	r (Specify)	JOB ORDE	R NUMBER
ITEM DESCRIPTI	ON	QUANT			IAL COST		R COST		ING ESTIMATE
TIEM DESCRIPTI	ON	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Work at Steam Plant BB-9	shall include the					10.15			
following items and any o	ther related work								
necessary to provide a co	mplete and usable		198						
facility.									
1. Replace No. 55 boiler	, complete with								
valves, automatic control	s, regulators,								
gauges, oil meters, catwa	lks, fans, piping								4
and other related equipme	ent to make boiler								
functional. Boiler shoul	d be the water								
tube type with capacity i	ncreased to								
20,000 pounds per hour.									
2. Replace boiler blowdo	wn piping from								- t 1
all three boilers to incl	ude blowdown tank.					1000			
3. Replace oil heating p	oump set to in-								
_clude piping and regulato	ors to all three								
_boilers with capacity to	accomodate the		la r	1-19 (B) (B) (B) (B)	19 A 1 2 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2				
increased capacity of No.	55 boiler.								



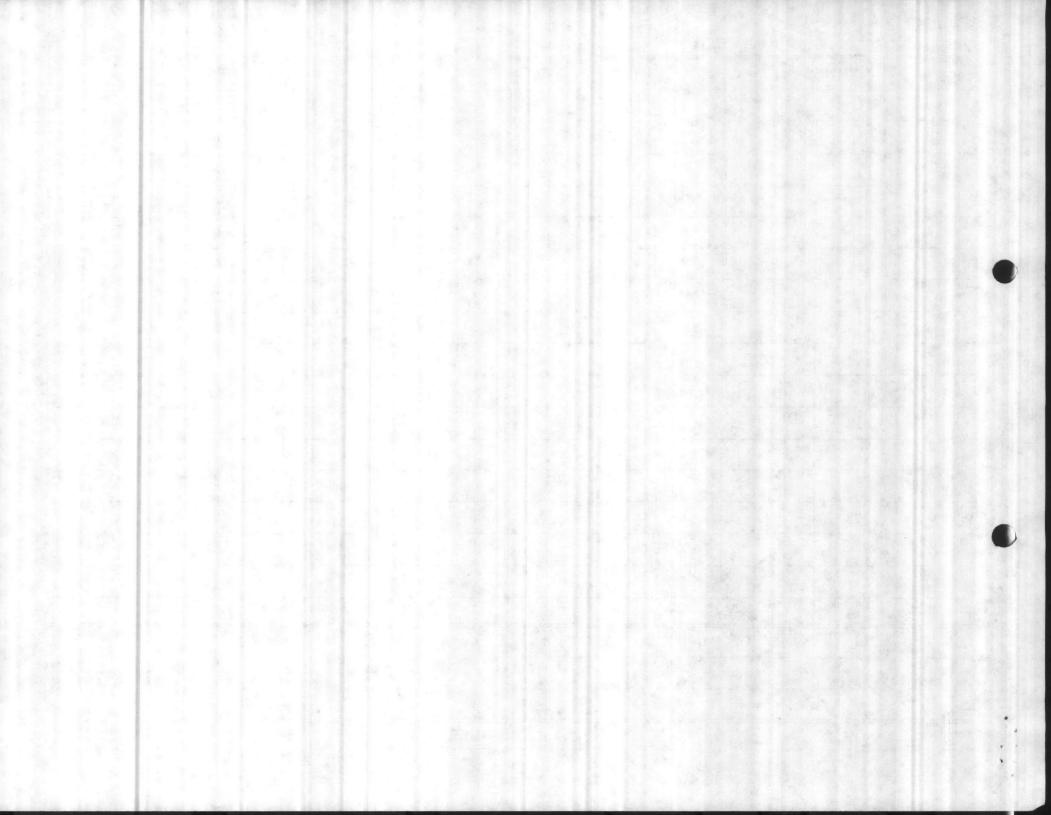
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIM	ATE		DATE	PREPARED	SHEET 2	2 OF 4
ACTIVITY AND LOCATION		100	CONSTRUCTION	CONTRACT NO.		Service Control	IDENTIFICA	TION NUMBER
Marine Corps Base, Camp Lejeune, NC			ESTIMATED BY				CATEGORY	CODE NUMBER
PROJECT TITLE			Huffman STATUS OF DESI	CN			JOB ORDER	NUMBER
Boiler and Steam Plant Repairs, Bldg. BB	3-9			30% 100%	FINAL Othe	(Specify)		Nomber
	QUANT	ITY	MATE	RIAL COST		R COST		NG ESTIMATE
ITEM DESCRIPTION	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
4. Replace outer casing, insulation,								
boiler gas seals, burner eye refractor,								- 4-
and paint No. 53 boiler.								
5. Replace deteriorated removable windo	ow W							
panels with roll up doors behind Nos. 53	3,		1 1					
54, and boilers.								
6. Remove asbestos insulation off all		-						
steam, condensate and water lines. Rein	n-		20.00					
sulate with calcium silicate and smooth								
metal covering.								
7. Replace three 10,000 gallon No. 6 of	<u>i1</u>							
tanks with one 30,000 gallon fuel tank.			1					
The tank should include a berm type							-	
retaining wall with off loading pumps					19 1 3k			
(duplex), steam coils, regulator valves			N-12 4					
8. Replace the existing boiler water								
transfer pump and piping with a duplex								



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST	ESTIM	ATE		DATE	PREPARED	SHEET	3 OF 4
ACTIVITY AND LOCATION		4 7 1		CONSTRUCTION	CONTRACT NO.			IDENTIFIC	ATION NUMBER
Marine Corps Base, Camp Legenouscritte Boiler and Steam Plant Repa				ESTIMATED BY Huffma: STATUS OF DESI		FINAL Oth	er (<i>Specify</i>)	CATEGORY JOB ORDE	CODE NUMBER
ITEM DESCRIPTIO		QUANT	_		RIAL COST	LABO	OR COST	ENGINEER	ING ESTIMATE
TEM DESCRIPTION	N	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
(continued)									
pump set. Provide necessar	ry valves,								
strainers, regulators, from	m deaerator								
to make up tanks.									
9. Replace existing steam	flow meters								
with type that has 10 to 1	turn down ratio,			- 44					
pressure and temperature co	ompensators, 24				26-00-1	\$100 to 100 to 1			
hour chart, digital readou	t, 4-20 M.A. and				Section Action				
replace orifice plates on l	Nos. 53, 54, and								
55 boilers.						4			
			*				The English		
Estimated Cost:									
					and the second				
					1 25-				



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST E	STIM	SHEET	SHEET 4 OF 4				
ACTIVITY AND LOCATION			CONSTRUCTION	CONTRACT NO.			IDENTIFICA	ATION NUMBER
Marine Corps Base, Camp Lejeune, NC	To A No.		ESTIMATED BY Huffman				CATEGORY	CODE NUMBER
PROJECT TITLE			STATUS OF DESIG		- Avil 202 1	2 4 4	JOB ORDER	NUMBER
Boiler and Steam Plant Repairs, Bldg. BB-9			PED 3	100%		er (Specify)	_	
ITEM DESCRIPTION	QUANTI NUMBER	TY	MATER UNIT COST	TOTAL	UNIT COST	OR COST TOTAL	ENGINEERI UNIT COST	NG ESTIMATE TOTAL
Sub-Total				115,000		179,500		295,000
Overhead 15%								44,250
Labor 18%								20,700
Material 5%						100		8,975
_Sub-Total					7.3%	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10	368,925
Profit 10%						194		36,892
Sub-Total								405,817
Bond 1%								4,058
Sub-Total					AL INC.		100	409,875
					2.90x	ROUNDED (S	AX)	410,000
					4.7			
						100		
	5. 5.			K SA				
					- 30.0			
						9.0		45







UNITED STATES MARINE CORPS MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542-5001

IN REPLY REFER TO:

11014 MAIN

1 3 OCT 1987

From: Commanding General, Marine Corps Base, Camp Lejeune

To: Commandant of the Marine Corps (LFF 2B)

Subj: FY88 MAJOR REPAIR PROGRAM (M2)

Encl: (1) M2 Project LESISMS, Repair/Replace Boilers and Equipment BB-9 Bldg 1101

- The enclosure is forwarded requesting approval as a supplemental project under the subject program.
- This project is necessary to provide a reliable heating plant for the Court House Bay area. The enclosure outlines specific deficiencies necessitating this to be funded in FYSS.
- Point of contact is Greg Shoemaker, Contracts Manager, Autovon 484-5794/5799.

M. G. LILLEY By direction

Copy to:

Outilities

PWO

Describe tanks will follow up.

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1. COMPONENT	FY	1988 MILITARY C	ONSTRUC	TION PD	O IECT DAT	2	. DATE				
			ONSTRUC			1	6 Sept.1987				
3. INSTALLATION AN Marine Corps				4. PROJECT TITLE Repair/Replace Boilers &							
Camp Lejeune,	NC				ment BB-9						
5. PROGRAM ELEMEN	NT	6. CATEGORY CODE 82109	7. PROJEC	T NUMBER	8. PROJE	CT COS	T (\$000)				
		9. C	OST ESTIMA		32						
		ITEM		U/M	QUANTITY	UNIT					
Basic Cost				LS	_	-	477				
Contengency	10%	(LS	-	_	₹ 48				
Total Proje	ct C	Cost.		LS	-		525				
Design 6%				LS	-	1620	_31				
Total Funds	Reg	uested		LS	_	_	556				

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Replace boilers and equipment in steam plant BB-9

11. Requirements:

Project:

Replace boiler #55, repair boiler #53, replace controls, regulators, guages, oil meters, cat walks, fans piping and other related equipment. Replace oil heater pump set, piping and regulators. Replace window panels with roll up doors. Remove asbestos insulation complete. Replace (3) below ground 10,000 gallon oil tanks with two 75,000 gallon above oil tanks with berm retaining wall, off loading pumps, steam coils and related piping and controls. Transfer pumps, steam flow meters, charts and orifice plates.

Requirement:

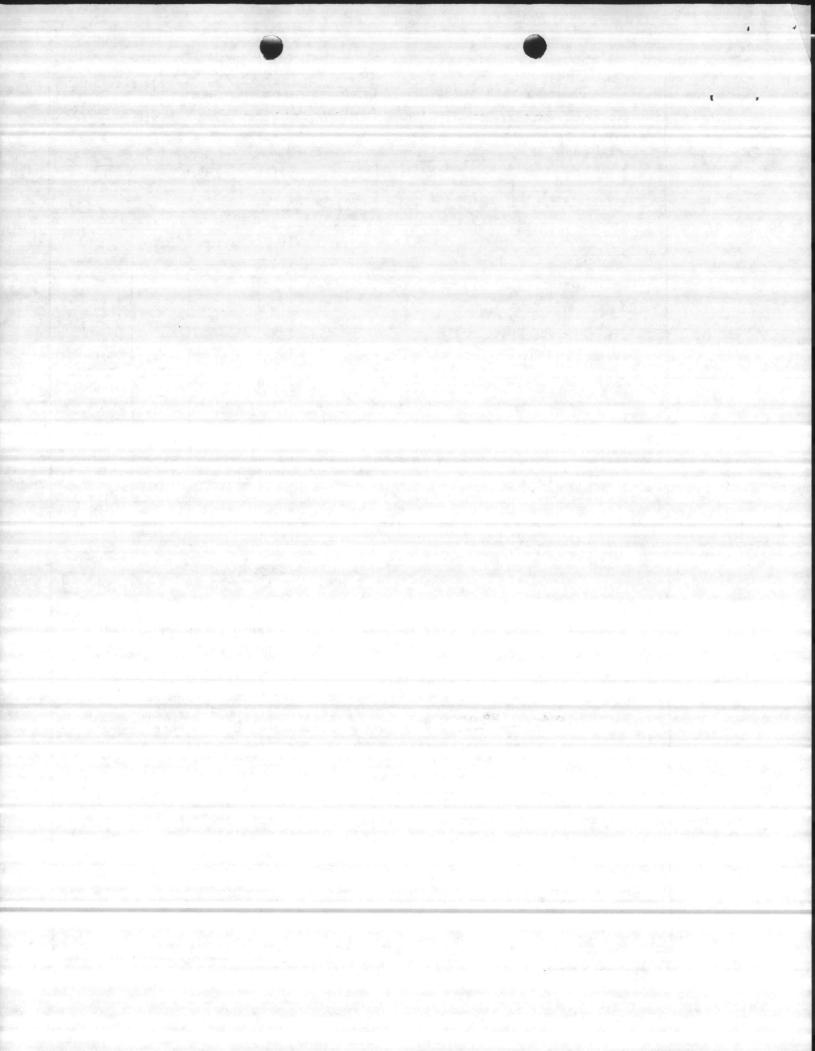
The replacement and repair of the boilers and associated equipment is necessary to provide a reliable heating plant for courthouse bay.

DD1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

PAGE NO.

\$ U.S. Government Printing Office: 1984—705-012/17914 2-1



1. COMPONENT	FY 1988 MILITARY CONSTRUCTION PRO	DJECT DATA
3. INSTALLATION Marine Cor	ps Base, Camp Lejeune, NC	5. PROJECT NUMBER
4. PROJECT TITLE		
Repair/Rep	lace Boilers and equipment BB-9	LE818MS

continued 11.

Current Situation:

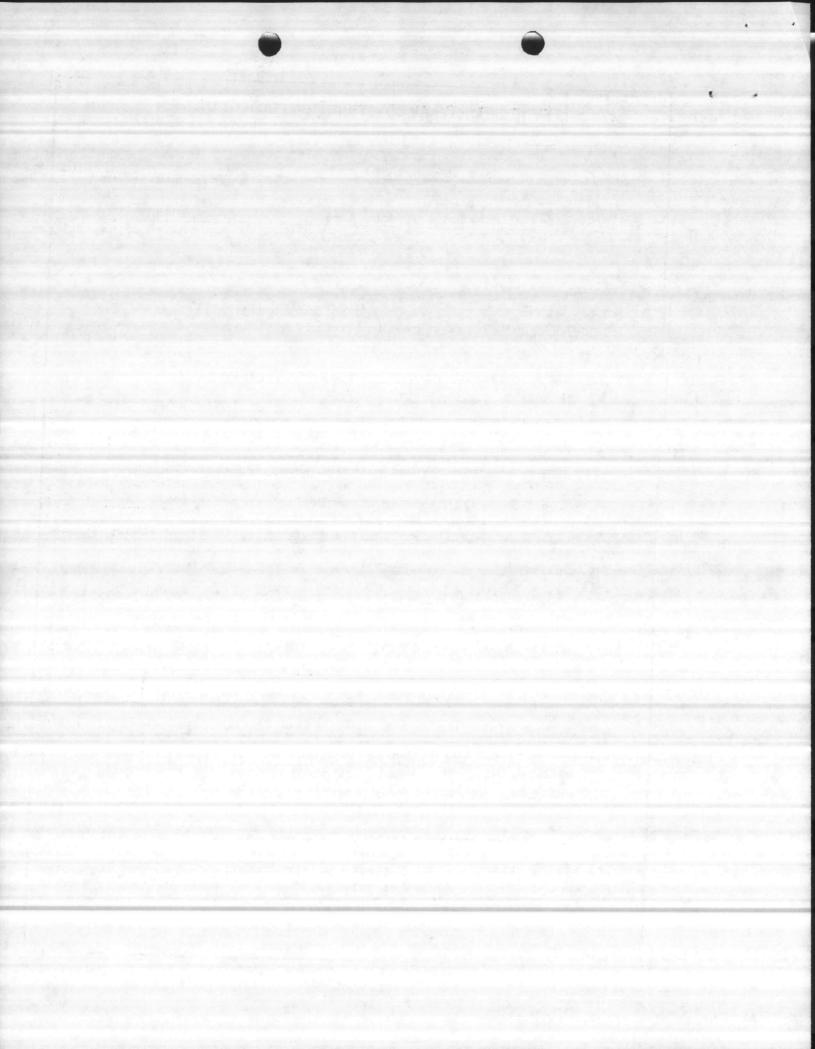
- Boiler No. 55 is deteriorated beyond economical repairs. The burner and controls are obsolete and no longer have parts available.
- Blow down tank is excessively pitted and blowdown pipe has been 2. patched.
- Oil heater and pump set is worn from normal use and does not 3. have the capability of the increased capacity of No. 55 boiler.
- Boiler gases have leaked past the seals deteriorating the insulation and outer boiler casing. Casing and seals have been patched and welded previously. Boiler was built in 1978.
- Roll up doors will give the needed room for boiler cleaning 5. during the hot summer months in lieu of replacing deteriorated panels.
- Asbestos is old and friable and should be replaced due to 6. personnel safety.
- Oil tanks are old and have the potential of leaking oil into 7. the ground.
- The existing pump is worn from normal use and should be replaced with a duplex set to prevent plant downtime during pump failure. Also, pump need to be sized for the added capacity of No. 55 boiler.
- Existing steam flow meters are old and do not have the turn down ratio for the varing summer/winter loads to give accurate readings.

Steam Plant BB-9 will be unable to provide Impact If Not Provided: adequate steam to meet the demand for building heating requirements, domestic hot water, and messhall equipment, in the

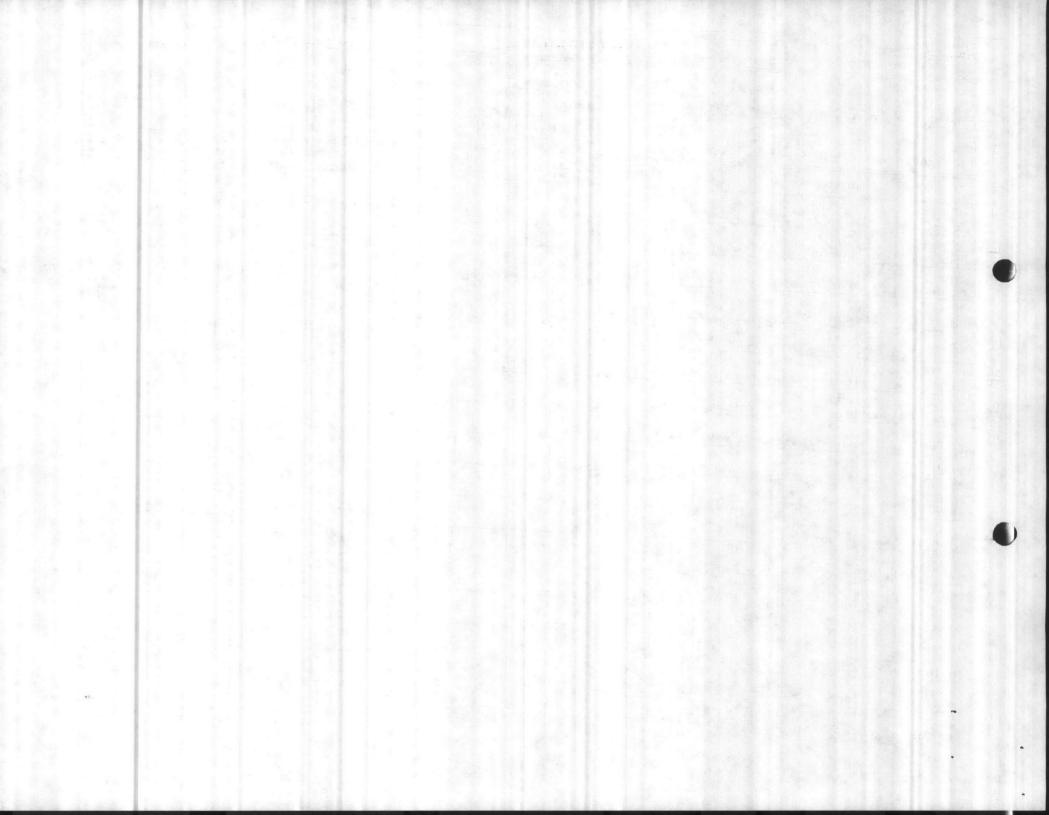
courthouse bay area.

DD 1 DEC 76 1391C

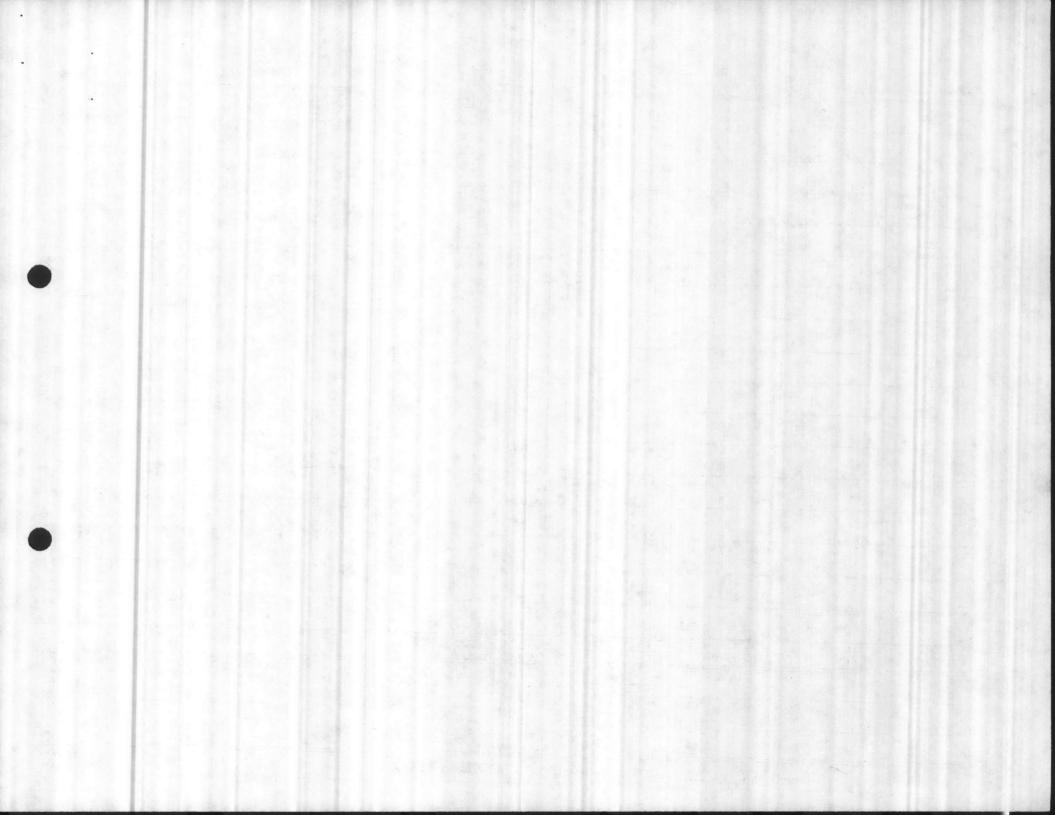
2 DATE



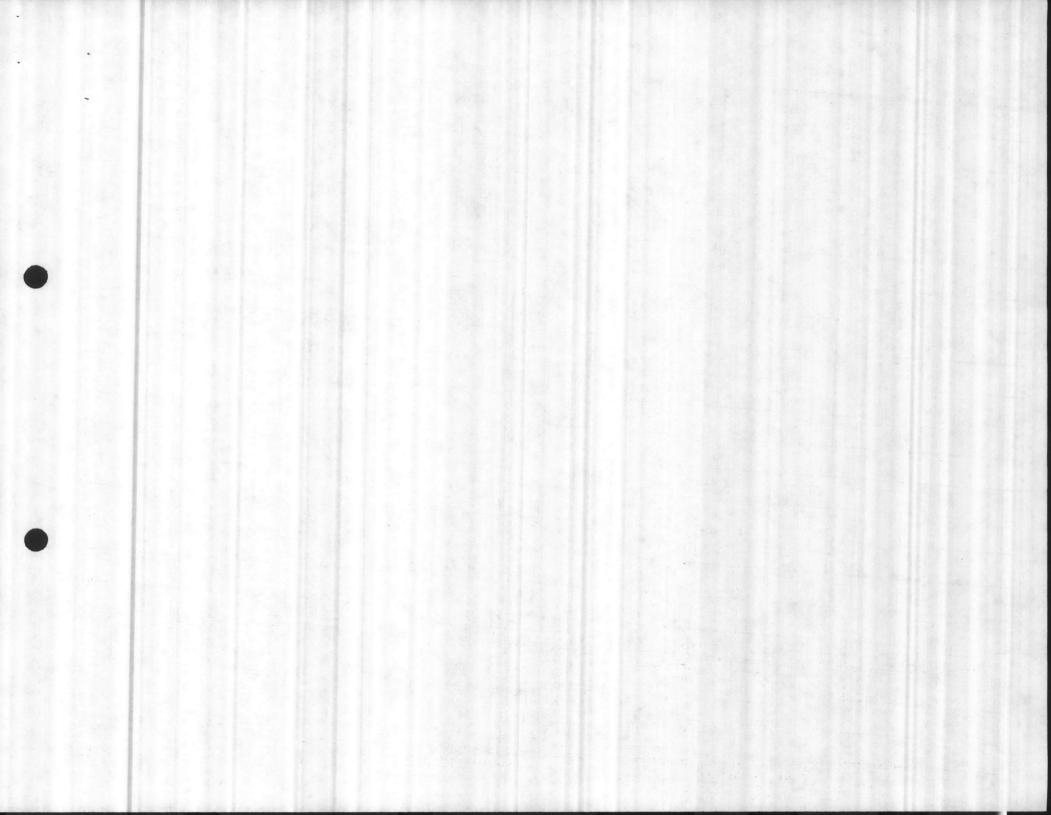
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p Lejeune, NC			Huffman				JOB ORDER	NOWBER
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Repairs, BB-9				IAL COST		R COST	UNIT COST	TOTAL
		UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL		
SCRIPTION	NOMBEN		TOTAL CONTRACTOR					2 2 1
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					11111			
catwalks, fans, piping								
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uipment to make					100			
Boiler should be the	100							
n capacity increased	-							
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blowdown piping from		-						
Diewe								
o include blowdown tank								
eating pump set to	THE STATE OF							
regulators to all three	e							
ity to accommodate		-						
city of No. 55 boiler.								
	Repairs, BB-9 SCRIPTION B-9 shall include the my other related ovide a complete and ovide a complete with entrols, regulators, catwalks, fans, piping quipment to make Boiler should be the entrols increased or hour. blowdown piping from to include blowdown tanker ating pump set to	Repairs, BB-9 SCRIPTION B-9 shall include the my other related ovide a complete and complete with metrols, regulators, catwalks, fans, piping muipment to make Boiler should be the metrols increased repairs increased results from conclude blowdown tank. Bating pump set to regulators to all three	Repairs, BB-9 SCRIPTION B-9 shall include the any other related ovide a complete and aboiler, complete with antrols, regulators, catwalks, fans, piping quipment to make Boiler should be the and acapacity increased response from the conclude blowdown tank. Boiler should blowdown tank. Cating pump set to regulators to all three	Repairs, BB-9 Repairs, BB-9 SCRIPTION B-9 shall include the my other related evide a complete and evide a complete with entrols, regulators, catwalks, fans, piping equipment to make boiler should be the entrole and evide accomplete with entrole and evide accomplete with entrole, regulators, catwalks, fans, piping equipment to make evide accomplete with entrole according to the entrole according to the entrole according to the evidence of t	The property of the property o	COST ESTIMATE Description Construction contract no. Estimated by Huffman STATUS OF DESIGN TOTAL Other people of the people of t	CONSTRUCTION CONTRACT NO. ESTIMATED BY Huffman STATUS OF DESIGN PED 30N 1000 FINAL OTHER COST OUNTITY NUMBER UNIT UNIT COST TOTAL UNITCOST TOTAL B-9 shall include the my other related ovide a complete and catwalks, fans, piping unipment to make Boiler should be the n capacity increased r hour. blowdown piping from co include blowdown tank. cating pump set to regulators to all three ity to accommodate	COST ESTIMATE DESTINATE CONSTRUCTION CONTRACT NO. CATEGORY CONTRACT NO.



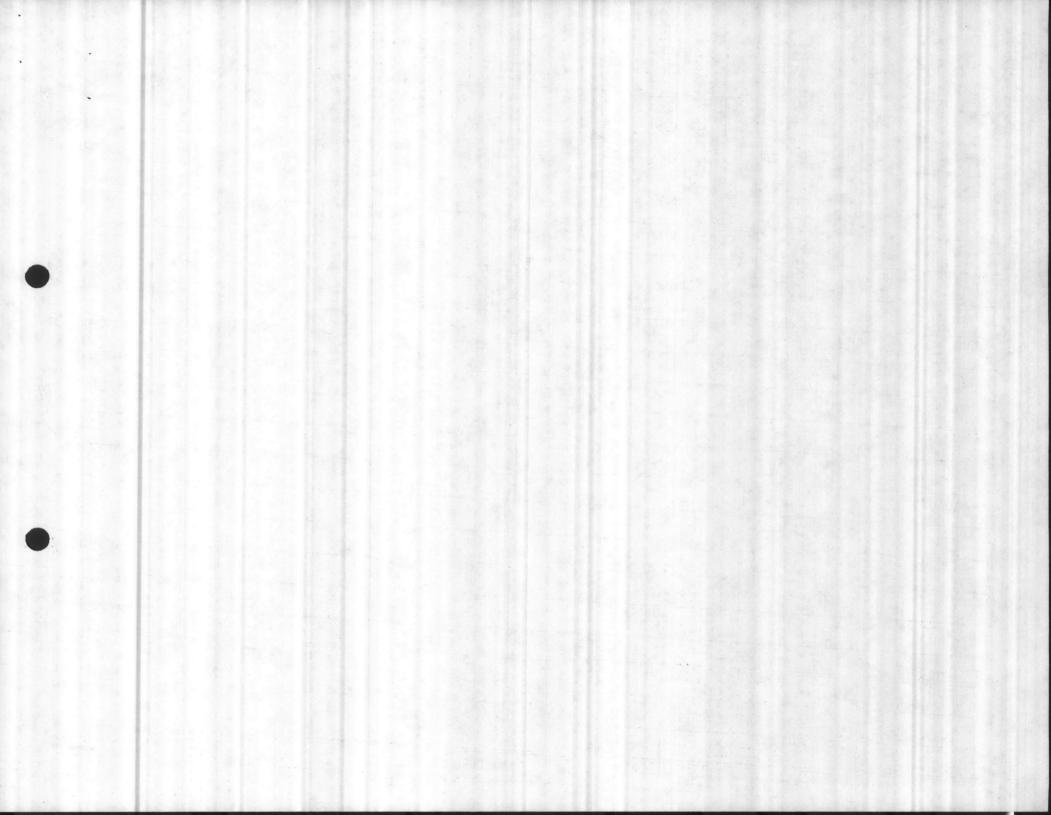
NAVFAC 11013/7 (1-78)	COST E	STIM	ATE		16 S	ept.1987	SHEET	OF
Supersedes NAVDOCKS 2417 and 2417A			CONSTRUCTION	CONTRACT NO.			IDENTIFICA	TION NUMBER
ACTIVITY AND LOCATION				A STATE OF STATE			CATEGORY	CODE NUMBER
Marine Corps Base, Camp Lejeune, NC			ESTIMATED BY					
Marine Corps Base, Camp Legenme,			Huffman STATUS OF DESIG	GN			JOB ORDER	NUMBER
1 G. Plant Popoirs RR-9			PED 30% 100%			er (Specify)		
Boiler and Steam Plant Repairs BB-9	QUANT	ITY	MATER	RIAL COST		TOTAL	UNIT COST	NG ESTIMATE TOTAL
ITEM DESCRIPTION	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL		
4. Replace outer casing, insulation,				g giber			20 d	
boiler gas seals, burner eye refractor,								
and paint No. 53 boiler.								
. Replace deteriorated removable window	1					114	72	
panels with roll up doors behind Nos. 53,	4.		1					
54, and boilers.			100					1 A M 1 P 1
6. Remove asbestos insulation off all				73	T 1974			
steam, condensate and water lines.			10 mm					- 100-1 100-1
Reinsulate with calcium silicate and		201	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ing the milleria.		1.	
smooth metal covering.				1				
Replace three 10,000 gallon No. 6			No. 1	2.				
il tanks with two above the ground		3 47		1				
type. The two new tanks should have a		4 4						
capacity of 75,000 gallons each. The								
tanks should include a berm type								
retaining wall with off loading pumps								
(duplex), steam coils, regulator valves,								PA-7/13-D) 2/17841

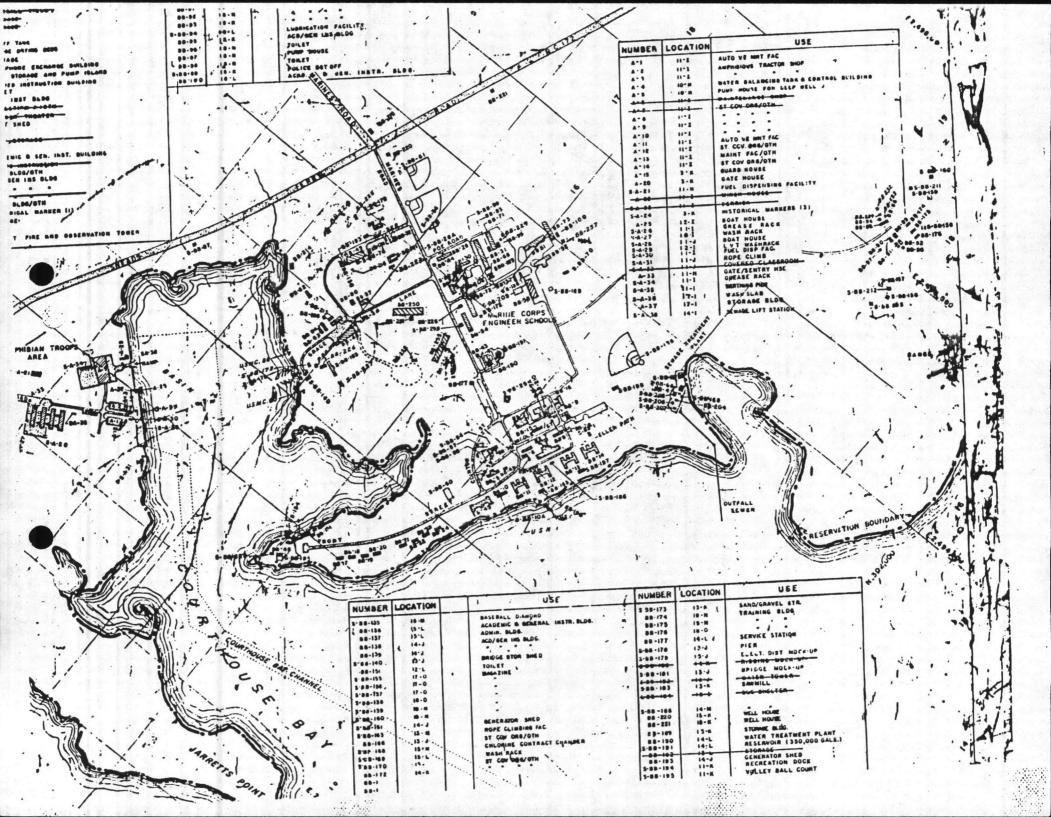


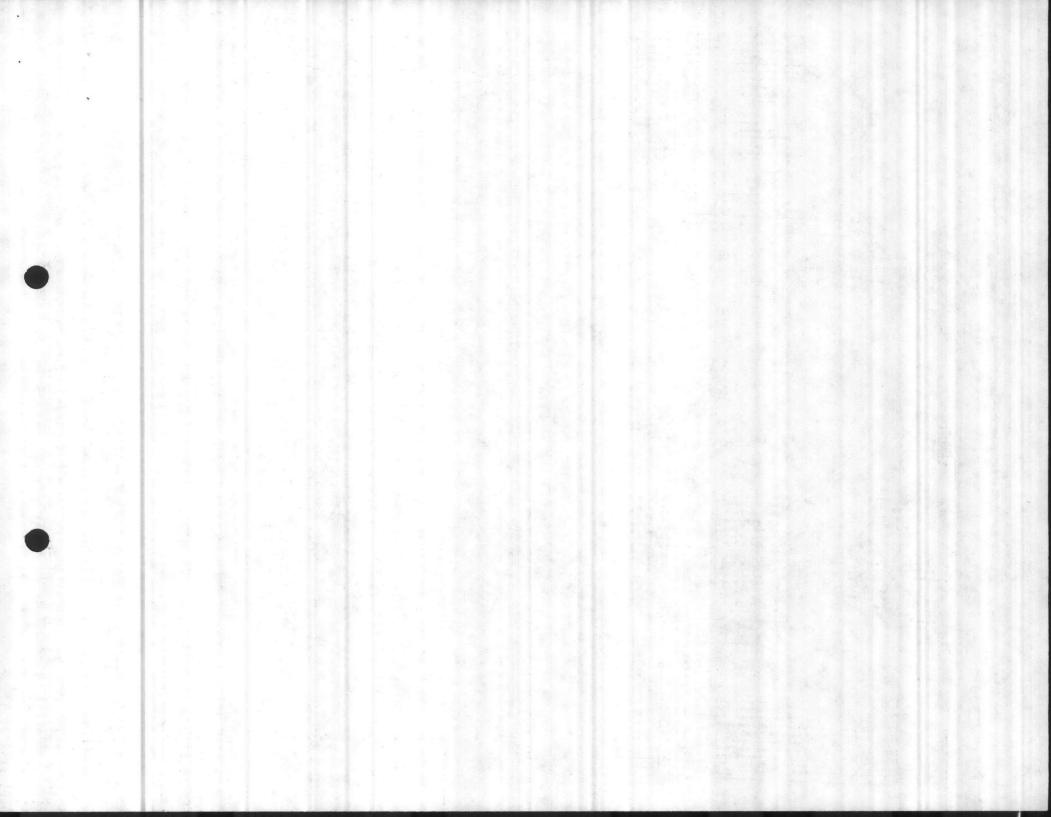
			The state of the s		DATE PR	ept. 1987	SHEET	OF	
	COST ES	TIMA	TE	SALE DETAILS	116 50	pr.	IDENTIFICATI	ON NUMBER	
FAC 11013/7 (1-78) sedes NA VDOCKS 2417 and 2417A	C031 20	10	CONSTRUCTION CON	TRACT NO.		7	CATEGORY CODE NUMBER		
VITY AND LOCATION		4.0	ESTIMATED BY	The reserve	JOB ORDER NUMBER				
rine Corps Base, Camp Lejeune, NC	197		Huffman STATUS OF DESIGN	6 ☐ 100% ☐	FINAL Other	(Specify)	ENGINEERIN	G ESTIMATE	
		1	PED 30°			R COST TOTAL	UNIT COST	TOTAL	
iler and Steam Plant Repairs BB-9	QUANTIT	Y	UNIT COST	TOTAL	UNIT COST				
ITEM DESCRIPTION	NUMBER	ONT							
ontinued) . area lighting and security fence.									
he existing 10,000 gallon oil tanks shall			-				18	- 12	
the existing 10,000 garron			-	The second second					
oe removed and disposed of by the			1	7 2 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					
contractor.	3,634	1	-					1	
8. Replace the existing boiler water		-							
transfer pump and piping with a duplex		1		· 数据 · 一					
pump set. Provide necessary valves,							1	1	
strainers, regulators, from deaerator									
to make up tanks.			30 4 9	1					
9. Replace existing steam flow meters				- 1 2005					
ith type that has 10 to 1 turn down		200		A STATE OF THE STA			7 - 200		
ratio pressure and temperature									
mansators, 24 hour chart, digital			9.75						
4-20 M.A. and replace orilice		remark of		1922 Page 1				\$525,0	
plates on Nos. 53, 54, and 55 boilers.						☆ U.S. Gove	ernment Printing Of	ice: 1984-755-012/17	

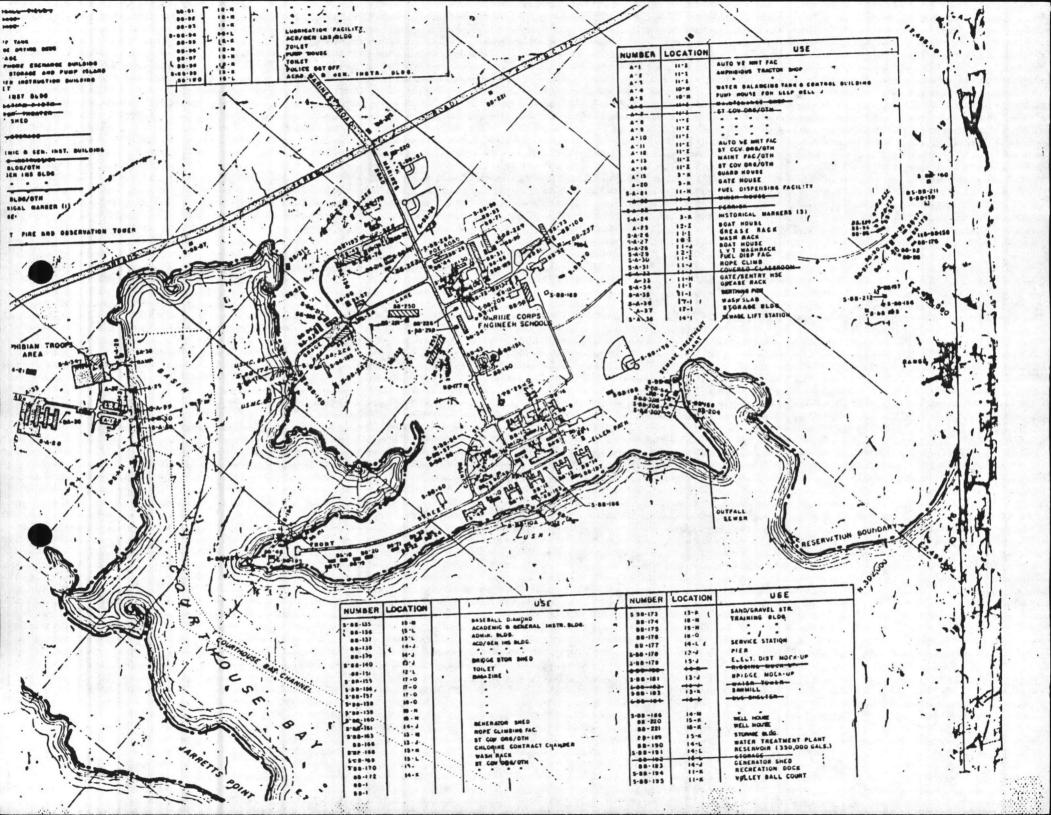


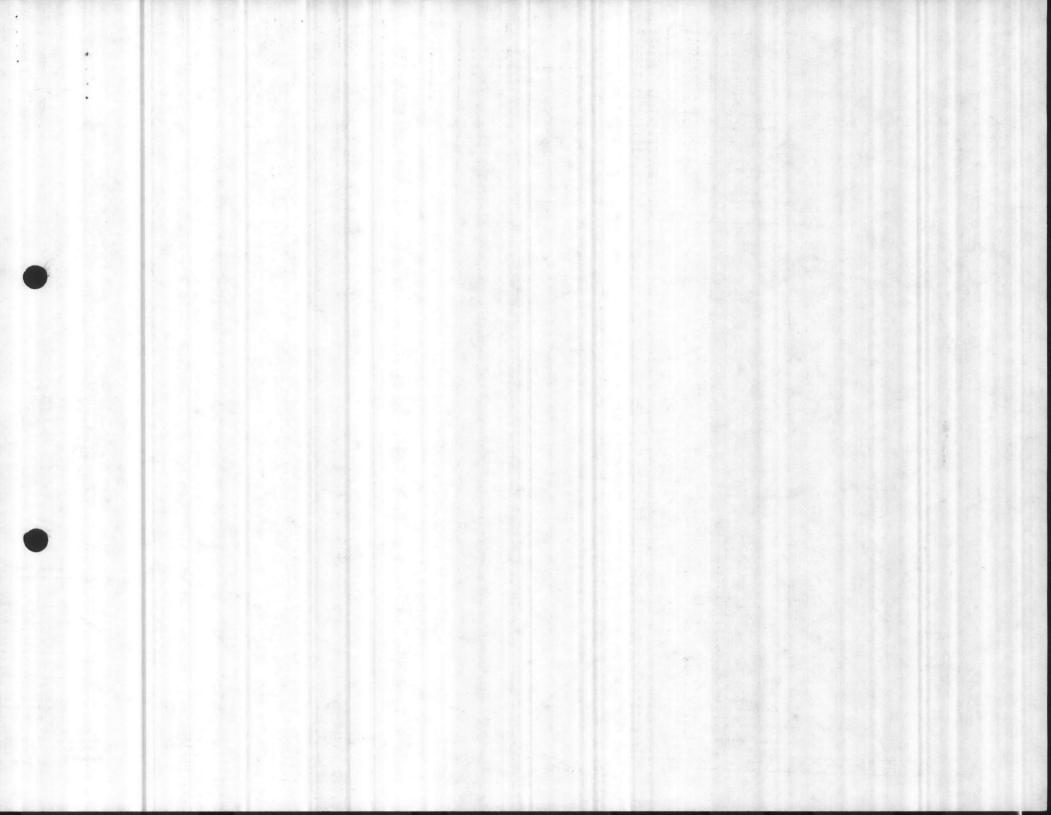
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AVFAC 11013/7 (1-78) upersedes NAVDOCKS 2417 and 2417A		CO31 E0		CONSTRUCTION CO	NTRACT NO.		CODE NUMBER			
CTIVITY AND LOCATION	ine, NC	1.0		ESTIMATED BY Huffman		JOB ORDER NUMBER				
arine Corps Base, Camp Leger	Corps Base, Camp Lejeune, NC			STATUS OF DESIGN	6 100%		(Specify)	ENGINEERING ESTIMATE		
Blant Repai	rs, BB-9		116	MATERI		LABO UNIT COST	LABOR COST TOTAL		TOTAL	
Boiler and Steam Plant Repai		QUANTIT NUMBER	UNIT	UNIT COST	TOTAL	UNITCOST	203,500		335,500	
					132,000	Page 1	2003		50,325	
Sub-Total							36 70	R. Car	36,630	
Overhead 15%									6,600	
Labor 18%			-						429,055	
Material 5%			-						42,906	
Sub-Total			-						471,961	
Profit 10%		1	-						4,720	
Sub-Total									476,681	
Bond 1%								1	477,000	
Sub-Total	7646				S Comment					
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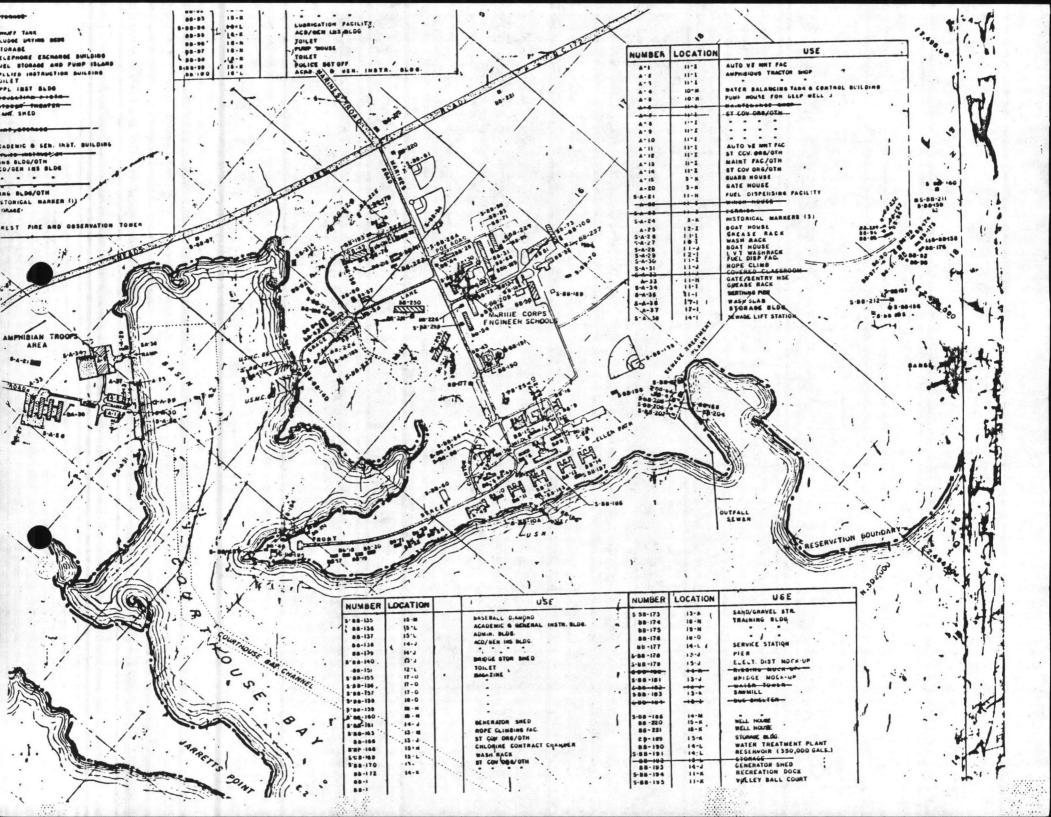


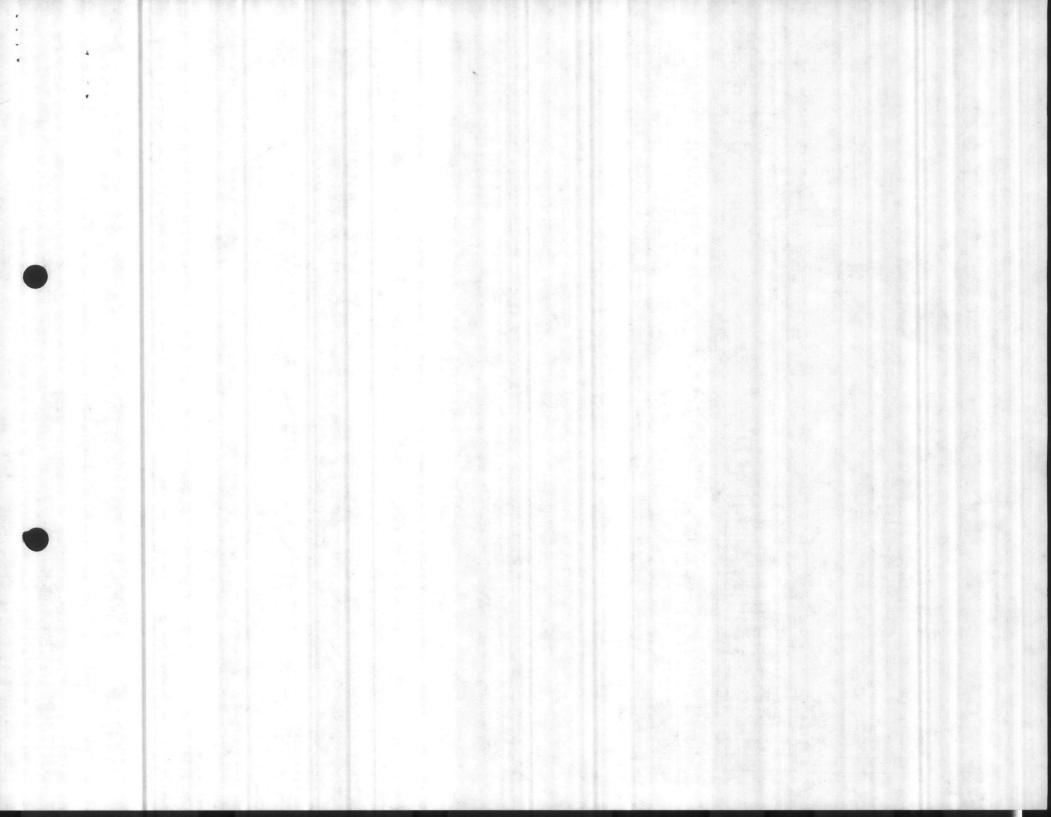












CHB

BASE MAINTENANCE DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

DATE: ___ 5 00T 1987

FROM: BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.

TO: FUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

SUBJ: ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M61CN

ENCL: (A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS

(B)

1. TYPE OF SERVICE REQUESTED:

REPAIR STEAM TUNNELS (HP) AREA

2. DESIRED COMPLETION FISCAL YEAR: 88

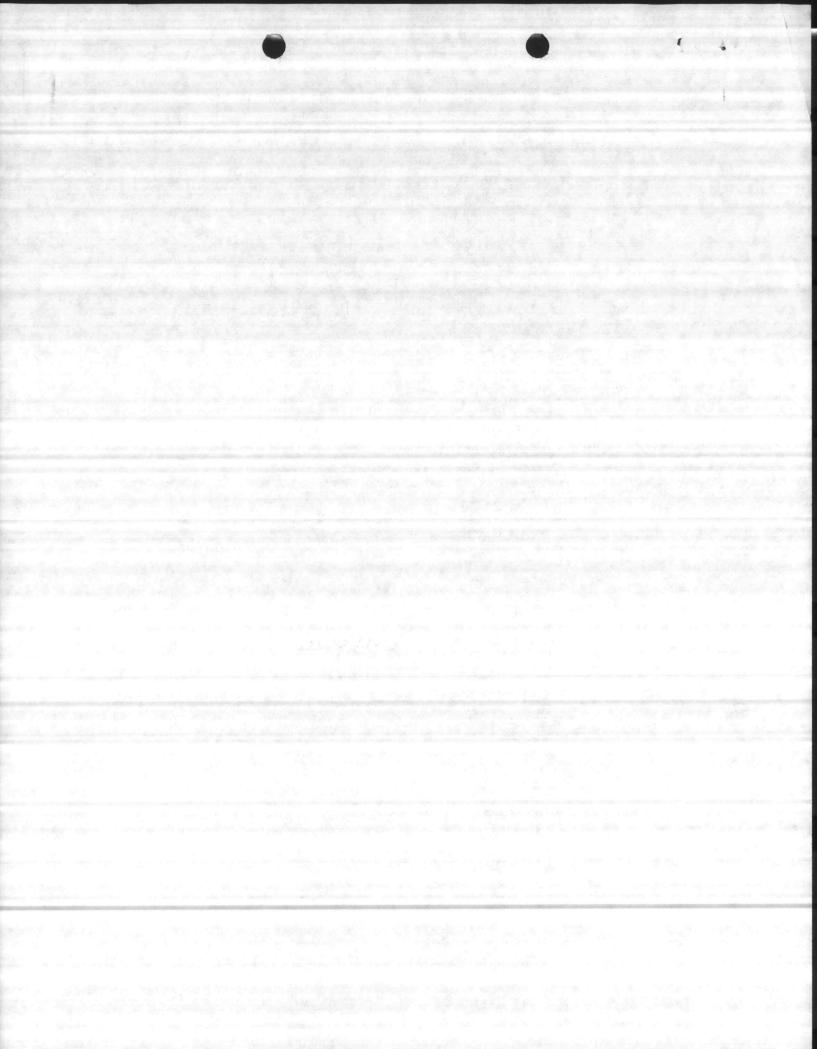
3. FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: M1 BUILDING/FACILITY IDENTIFICATION FOLLOWS: GRD G10A,

ESTIMATE COST IS \$ 381,000.00

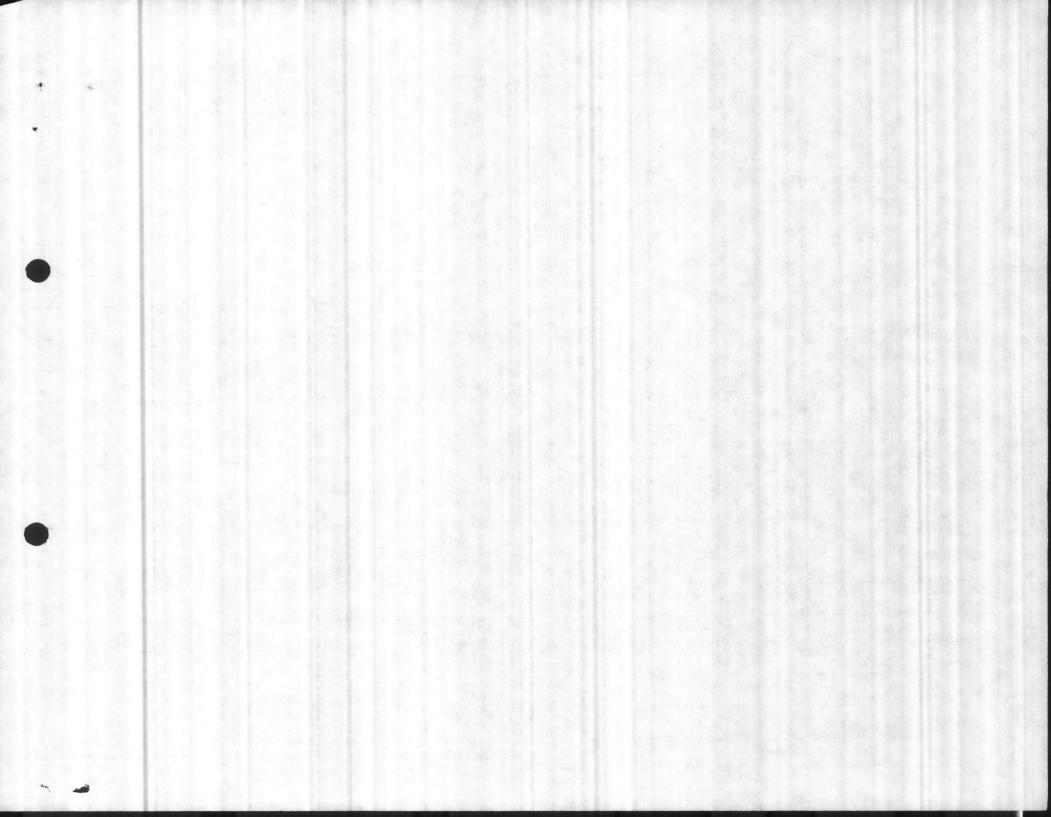
4. POINT OF CONTACT IS GREG SHOEMAKER

PHONE 5794

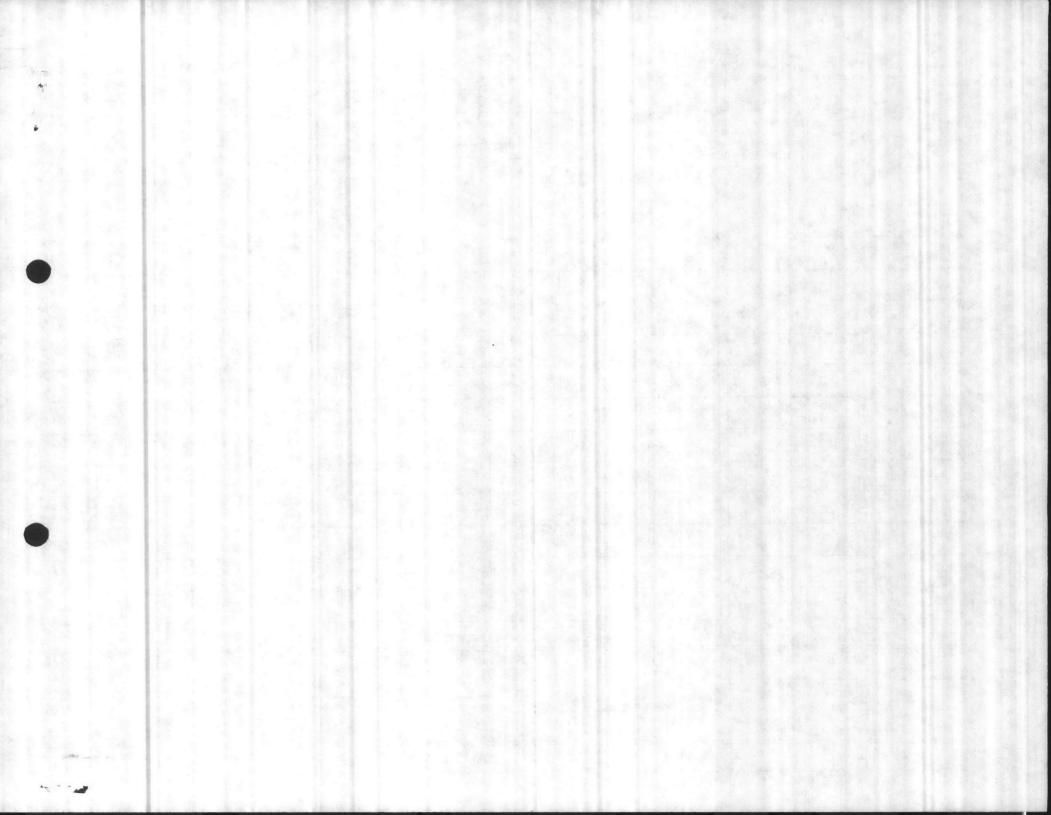
T.D. DEWELL BY DIRECTION



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST	ESTIN	ATE	10.2	DAT	1-26-87	SHEET	OF		
ACTIVITY AND LOCATION			8.65	CONSTRUCTION	CONTRACT NO.	in the same		IDENTIF	ICATION NUMBER		
MCB G-10A PROJECT TITLE REPAIRS TO	STEAM TUNNE	us .		ESTIMATED BY		Muran		CATEGOR	CATEGORY CODE NUMBER		
REPAIRS TO	STEAM TUNNE	EL		STATUS OF DESIGN PED 30% 100% FINAL					ER NUMBER		
ITEM DESC	사용하다 있다. 하는데 하나 있는데 하를 때문에 되는데 되었다.	QUANT	UNIT	MATE UNIT COST	RIAL COST TOTAL	LAE UNIT COST	BOR COST		RING ESTIMATE		
SUBTOTAL		No.		Sim Gool	85,000	UNIT COST	170.000	UNIT COST	7.55000		
OVER HEM	D 1570				13/00		170,000		38,250		
LABOR	1870	1 1 1/4			4.60	312			30,600		
MATERIAL	590								30,000		
SUBTOTAL			1						328/00		
PROFIT	1570						1883		49,215		
SUBTOTAL									377315		
Bond	190								3773		
SUBTOTHL									381,088		
				54 - 18 - 18 - 18 - 18 - 18 - 18 - 18 - 1				SAY	38/ 000		
		L				taring galante		547	1		
					3 2 2						
				The service		2017					
				4-14							
•											
S/N 0105-LF-010-1335									and the same of the same		



Supersedes NAVDOCKS 2417 and 2417A	COST	STIM	ATE		DAT	- 28-89	SHEET	OF
ACTIVITY AND LOCATION			CONSTRUCTION	CONTRACT NO.			IDENTIFIC	CATION NUMBER
MCB STEAM TUNNELS IN HADNOTP			ESTIMATED BY	Hu	Mman	,	CATEGOR	Y CODE NUMBER
INSPECT, ESTMATE AND DESIGN FOR	PEPAIRS	AUPI	STATUS OF DES	IGN 100%	FINAL Oth	her (Specify)	JOB ORDE	R NUMBER
ITEM DESCRIPTION	QUANT	UNIT	MATE UNIT COST	RIAL COST TOTAL	LAB UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	ING ESTIMATE
WCLEAN ALL WASTE TRASH, MUDD,				85,000		170,000	0.111 0001	255,000
DEBRIE FROM TUNNEL								7,-
WINSTOP ALL DRAINS IN TUNNEL								
(3) REPAIR/REPLACE ALL SUMP PUMPS			1					
(4) ADD SUMP PUMPS INLOW AREAS	4 00			10 mg				
OF TUNNEL TO KEEP IT DRY.		ă,		AUT .	40°			
(5) RAISE ALL TUNNELS EXISTING BELOW						100	tics and any of the	
GRADE UPTO OR ABOUT GRADE				30 m				
FOR ACCESS ABILITY OF TOP REMOVELS.								
WALL SUBSTANDARD MANHOLE COVER	,				100			
TO BE REPLACED AND BROUGHT								
UP TO SAFTEY STANDARDS.								
DREPLACE ALL CRACKED OR DAMACED					1 H 7			
CONCRETE TOPS.								
8) RESEAL ALL CONCRETE TUNNEL TOP								
COVERS TO PREVENT WATER, MUDD,				* 3 W				
ECT. FROM ENTERING TUNNEL.	for a							



ONB

Memorandum

DATE:

1 OCT 1987

4280 MAIN

FROM:

Base Maintenance Officer, Marine Corps Base, Camp Lejeune

TO:

Public Works Officer, Marine Corps Base, Camp Lejeune

SUBJ:

CONTRACTS M1/R1 PROGRAM, DESIGN AND AWARD FY88

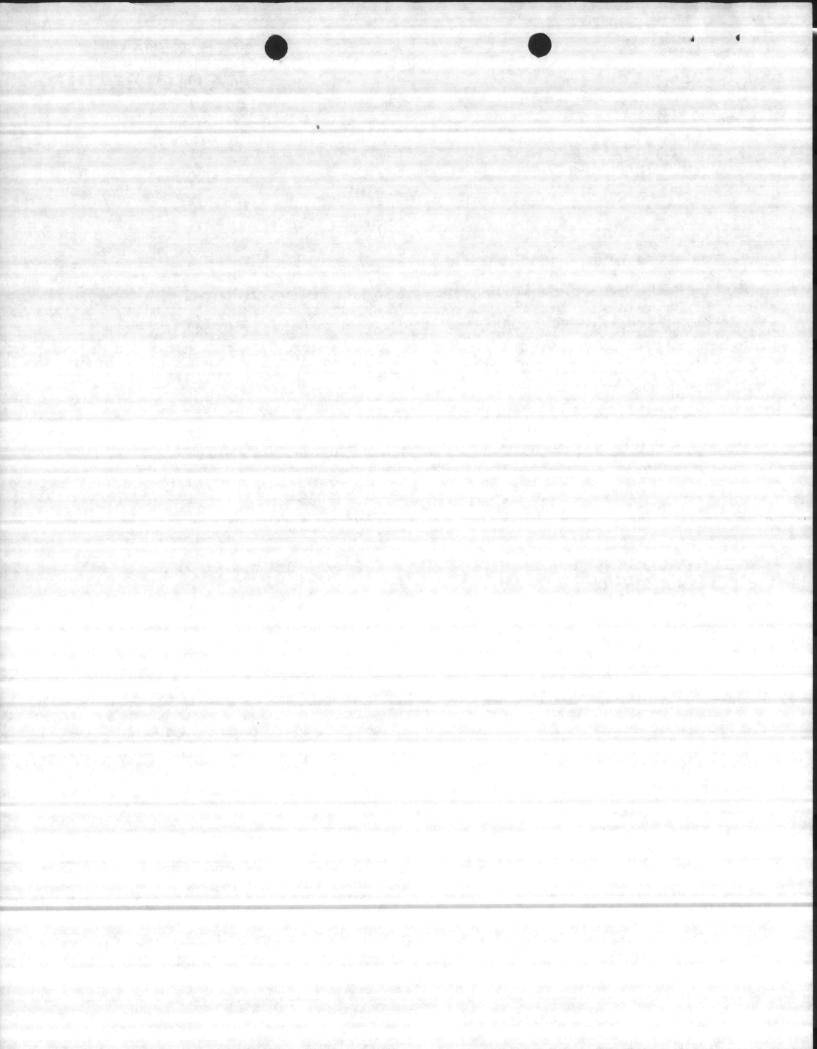
Encl: (1) M1 Project 8M54CN, Replace Steam and Condensate Line Between Stm., 36.0 HP and Stm. 1.0 FC

(2) R1 Project 8R024, Reroute Steam and Condensate Line Near FC-202

- Enclosures (1) and (2) are provided to be accomplished as one contract in FY88.
- FY88 M1/R1 Funds will be provided.
- Point of contact is Greg Shoemaker, Contracts Manager, X5794.

T. D. JEWELL By direction

Blind copy to: L. Lanier Shop 38 Utilities WkR F&A



DATE: 1 OCT 1987

BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C. FROM: TO:

PUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M54CN SUBJ:

ENCL: (A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS

(R)

TYPE OF SERVICE REQUESTED:

REPLACE STEAM AND CONDENSATE LINES BETWEEN STM. 36.0 HP AND STM. 1.0 FC_____GRD G10A INCORP WITH 8R024

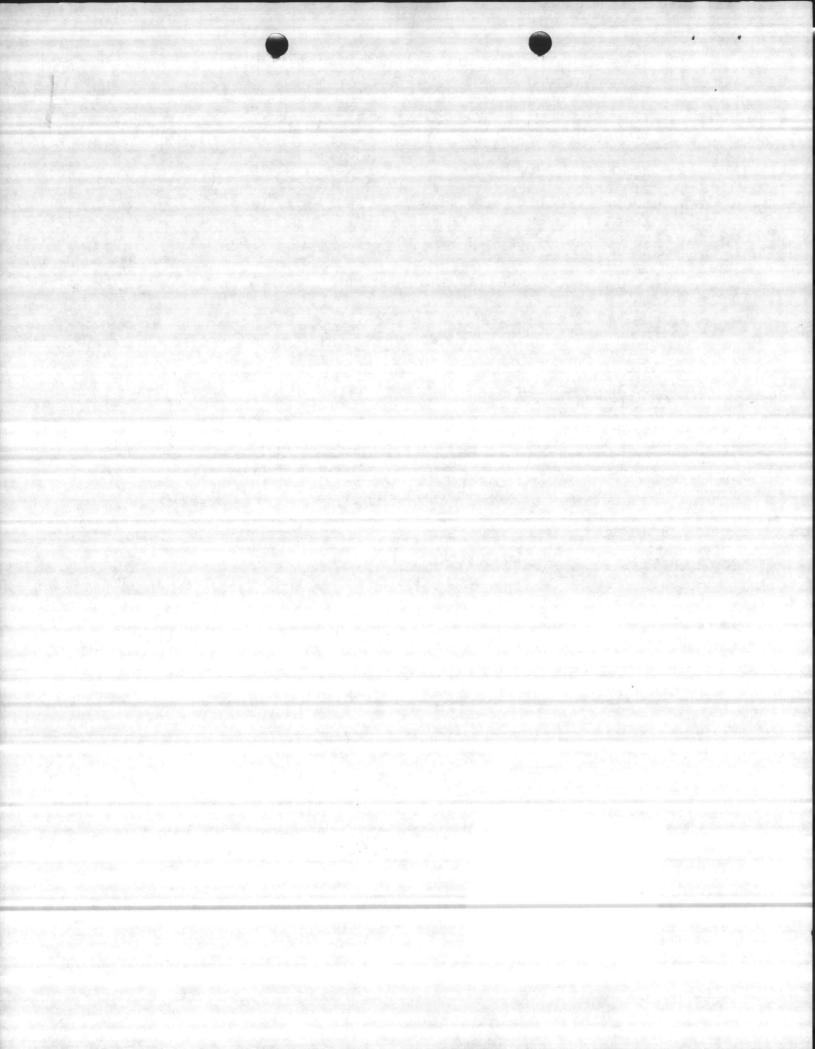
- DESIRED COMPLETION FISCAL YEAR: 88 2.
- FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: M1 3. BUILDING/FACILITY IDENTIFICATION FOLLOWS: GRD G10A,

ESTIMATE COST IS \$ 61,000.00

4. POINT OF CONTACT IS GREG SHOEMAKER

5794 , PHONE





DATE: 1 OCT 1987

BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C. TO:

PUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M54CN SUBJ:

ENCL: (A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS

(B)

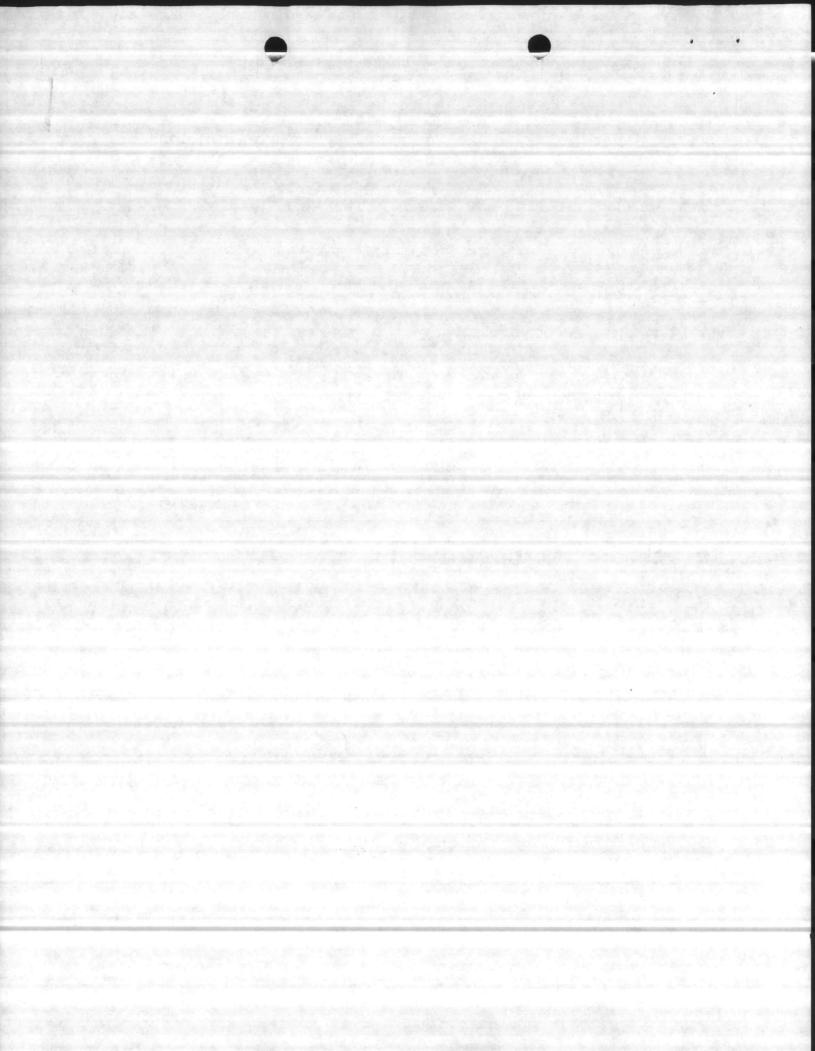
1. TYPE OF SERVICE REQUESTED:

REPLACE STEAM AND CONDENSATE LINES BETWEEN STM. 36.0 HP AND STM. 1.0 FC_____GRD G10A INCORP WITH 8R024

- DESIRED COMPLETION FISCAL YEAR: 88 2.
- 3. FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: M1 BUILDING/FACILITY IDENTIFICATION FOLLOWS: GRD G10A,

ESTIMATE COST IS \$ 61,000.00

, PHONE 5794 4. POINT OF CONTACT IS GREG SHOEMAKER



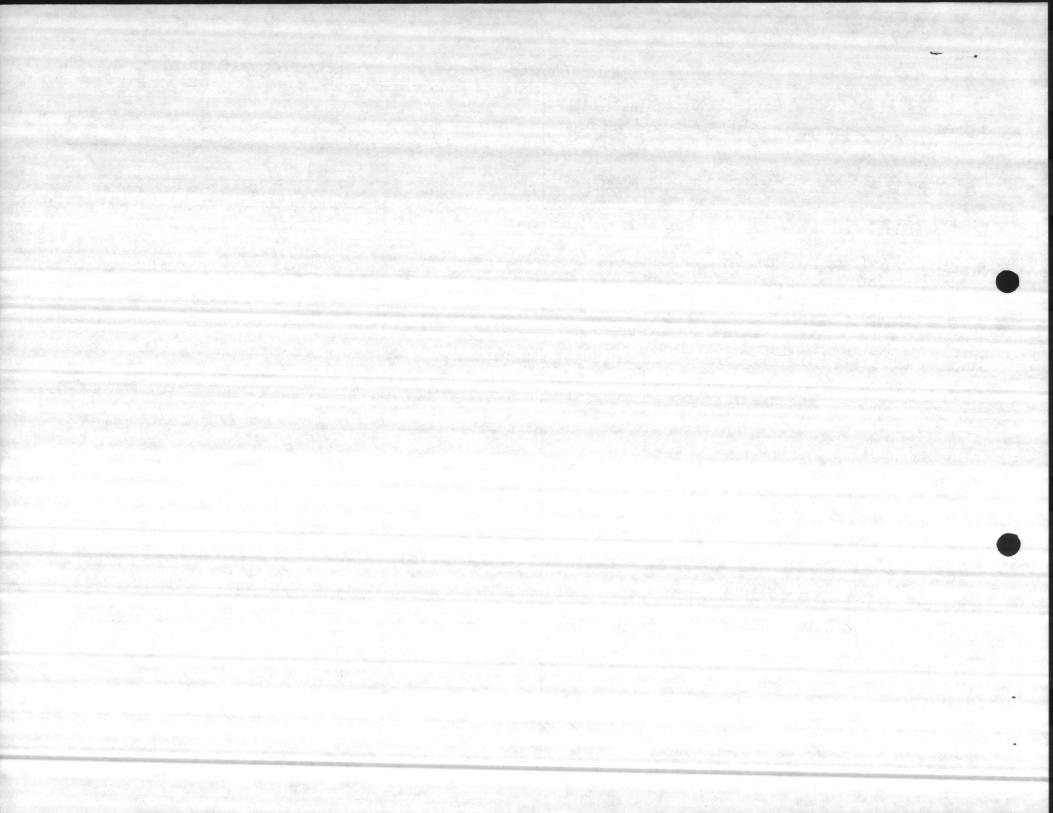
NA \$2 11013/7(T/8) Supersedes NA VDOCKS 2417 and 2417A	COST EST	TIMATE	IATE DATE PREPARED			SHEET OF		
ACTIVITY AND LOCATION			ION CONTRACT NO.	A Company		IDENTIFI	CATION NUMBER	
NCB-LOCATED BETWEEN SIM-36.0HF	AND STM-1.0F	STATUS OF	Huls	* 5 5 5 5 5 5 5	Y CODE NUMBER			
AND THE STATE OF	Produce Commence of the State o	PED [30% 100%		and the second			
ITEM DESCRIPTION	QUANTITY NUMBER U	MIT UNIT COS	ATERIAL COST	LAB UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	TOTAL	
STEAM AND CONDENSATE LINES		a year a salah ing Anggaran Salah ing S Anggaran Salah ing Sa	23,625		13965		37590	
OVERHEAD 1590				ri ili seram ne ri dise son me ribe.		and the state of t	5639	
LABOR 1870		13 m					2,514	
MATERAL 5 70				e se establica	1427 177 187 187 187 187 187 187 187 187 18		1181	
SKBTOTH L.	The state of the s		Care Control to the Care Care Care Care Care Care Care Car	+ 1111 962		100 mg	46924	
PROFIT 1070	Standard States of States				a marin and a fill fam		4692	
& UBTITAL	Lorden Vollegersen	1.79 . DE 1.85	a de la caracteración de l	al sauge de de la literation Al sauge de la lace de la literation de la lace de la l		10.00	51,46	
Bond 190		A STATE OF S					514	
SUBTOTAL		1000 11 19 10 10 10 10 10 10 10 10 10 10 10 10 10			and a superior	er og skrivet	52,132	
CONTINGENCY 10%				in and the second of the second secon	e de la composition		5213	
SUBTOTAL		A sept of the sept		gartes and a con-	era era era era era era	100 140 150 150 150 150 150 150 150 150 150 15	57345	
DESIGN 690				PERMITTER S	de la companya da		3441	
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	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		in the second second	Spingers at 1884 ×	en er en	SAY	61,000	
	sentiment of the second			and the second	A Samuel A	regional services		
		and the second						
					palantan and page the second		41 - 12 K	

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Mark.



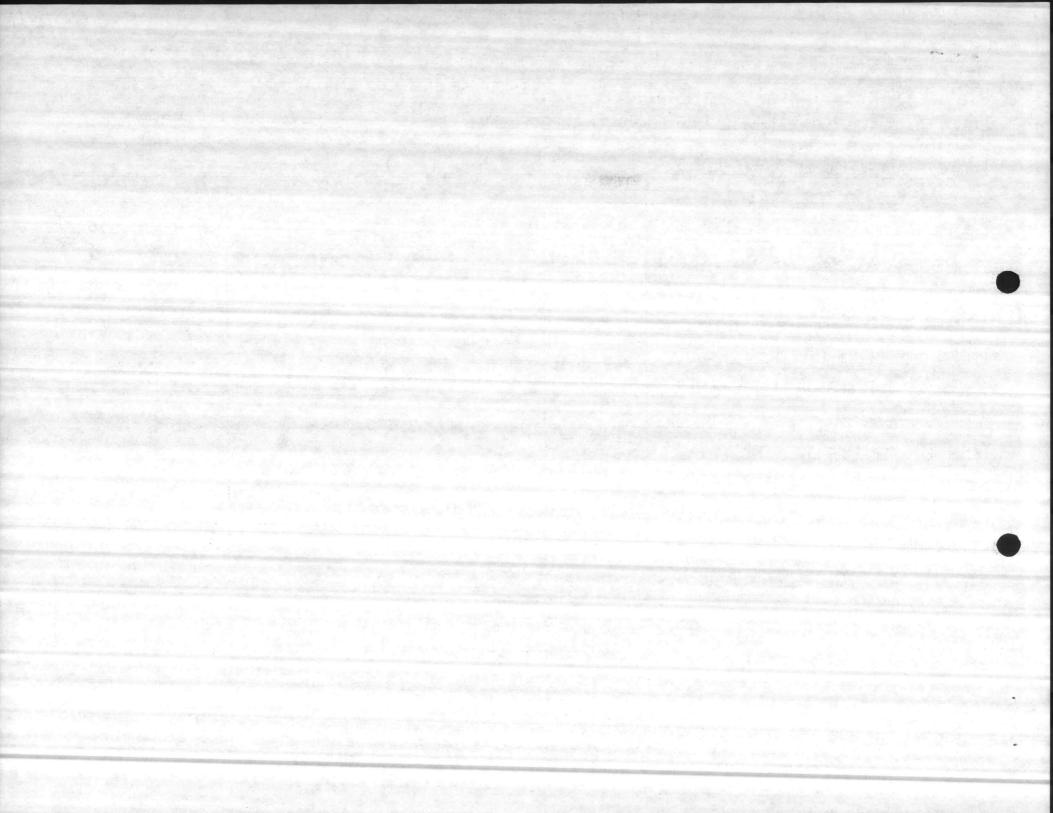
NAVFAC 11013/7 (1-78) Supersedes NAVDUCKS 2417 and 2417A		COST ES	MITE	ATE		9-14-87	SHEET \ OF 2			
ACTIVITY AND LOCATION AND CO LOCATED BETWEEN STM				CONSTRUCTION ((ESB Y		CATEGORY CODE NUMBER		
Replace Steam & Con	IDENSATE LINE	S S	#1.#1 14.44	STATUS OF DESIG		FINAL _	Other (Specify)	JOB ORDER	· Company of the second	
ITEM DESCRIPTI	South the second of the second	QUANTIT NUMBER	Y	MATER UNIT COST	TOTAL	UNIT COST	ABOR COST TOTAL	UNIT COST	NG ESTIMATE TOTAL	
Remove and Replac	e Approx. 350									
ft. of 10" Steam	DIST. LINE	14 To 16 18 18						7.54	1000	
32" Condensate Re	turn LINE							e degar a line		
between Dist. Pits	STM-36.0									
HP & STM-1.01	FC behind			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25.1					
Bldg 1854. Existing	그들이 얼마나는 살이 살아보니 그렇게 살아가지 않는데 그렇게 되었다.		aptivist es stan						10-12/12/0-17 AP	
removed are partis	elly covered	147		1.5% apr		2 10 10 10				
with soil. NEW L	NES to be								1984	
installed above gro	und as per	240 340				45 July 1		79300		
diagram. Minimum				1	4 - 100 A				do case	
DN 10" Steam LINE	[2010] 이번 이번 이번 [2010] 이번 이번 시간 [2010] 이번 [201	and N	¥ 5	100 may 100 mg		er and the second	sample of the graduate of the	and a start of		
with weatherproof A	[18]							1000		
Ketjug. Minimum IN									5 / 5	
inch Condensato Ret	um is inches	300								
with weather proof						Marie Services	8-1			
Keting. Provide pipe	supports and									
rollers and hangers						n N magai	₩U, S. Government Prin	iting Office: 1981—	505-106/7227 2-1	

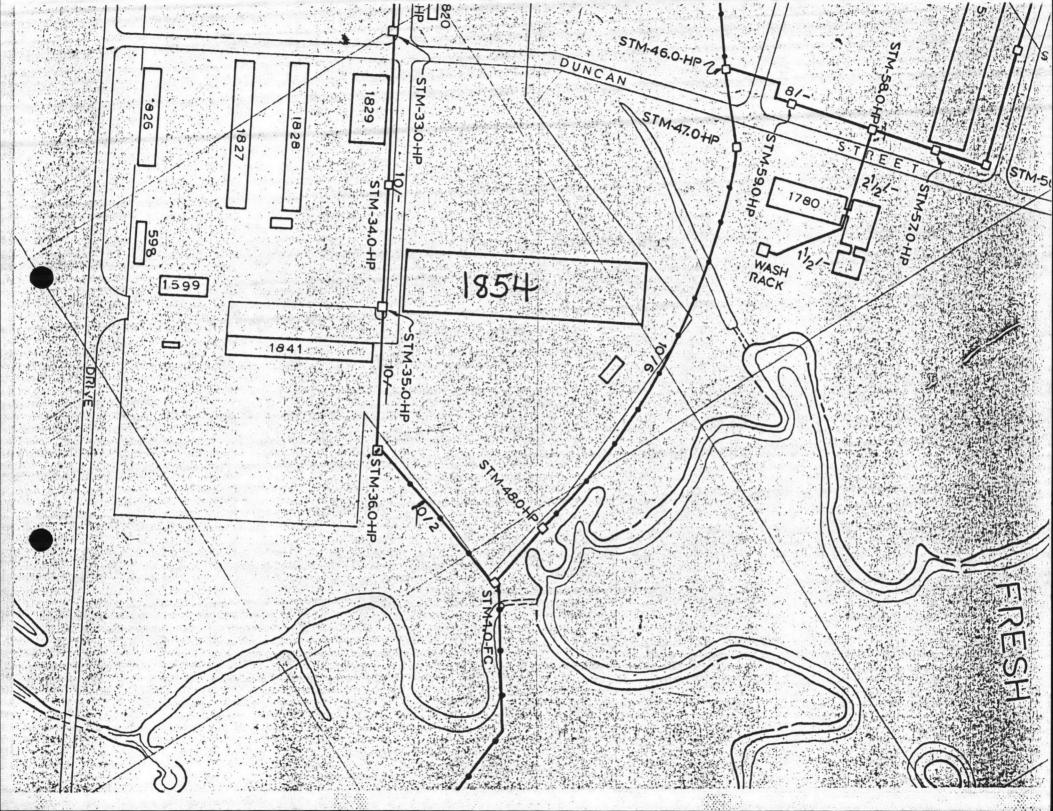


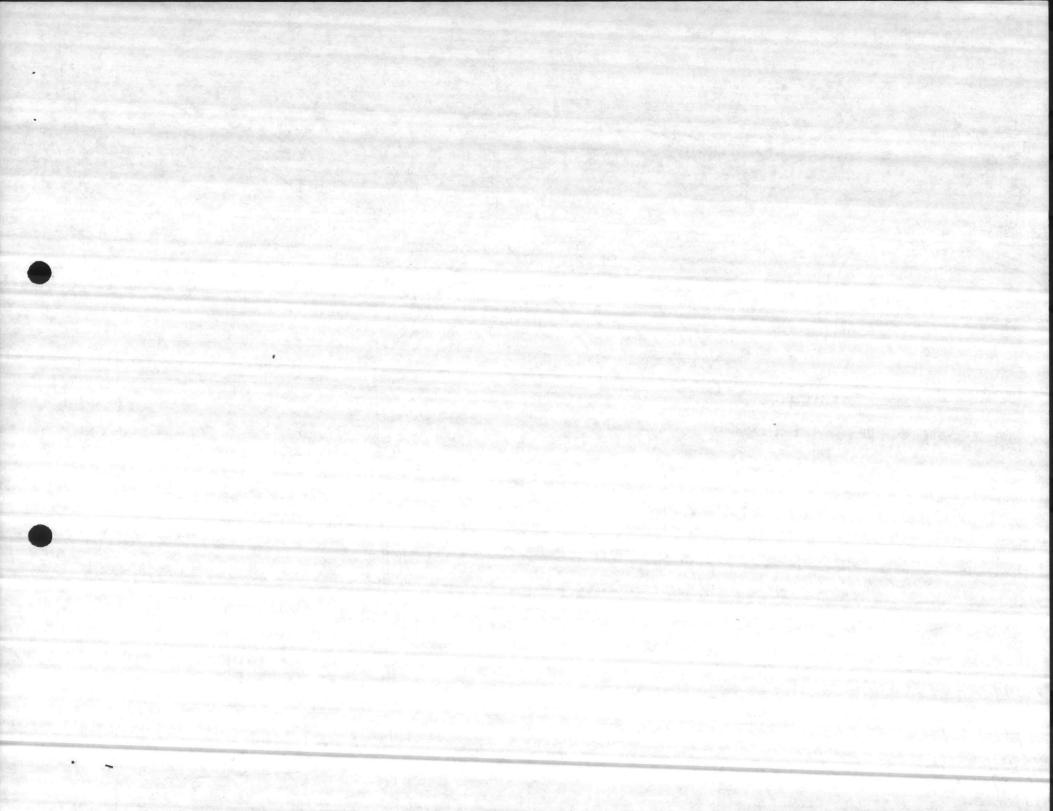
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	VFAC 11013/7 (1-78) ersedes NAVDOCKS 2417 and 2417A COST ESTIMATE				9-14-87	SHEET	2 OF 2	
ACTIVITY AND LOCATION			CONSTRUCTION	CONTRACT NO.			IDENTIFIC	CATION NUMBER
LOCATED BETWEEN STM-36.0 HP AN	ND SIM	-1.0 FC	ESTIMATED BY	OGLE	SBV		CATEGOR	Y CODE NUMBER
Rodace Steam & CONDENSATE LINES			STATUS OF DES		′_	her (Specify)	JOB ORDE	R NUMBER
ITEM DESCRIPTION	QUANTITY		MATERIAL COST			OR COST		RING ESTIMATE
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
diagram. Height of NEW Steam Line	350	LF	42.30	14,805	23./0	8085.	65.40	22,890.
to be equal to existing 10"					18:17:13		2.50	
steam value on existing line at							- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
STM-LO FC. STEAM DISTRIBUTION							2 001	H. M.
PIT. Install (2) Two Expansion			7		Project Project V	2,200	Tour yours	A STATE OF THE STA
Loops as Existing LINES.			A Section of the			* 1,500 miles		
Tie into existing Steam Pit behind	7 - 18 - 18 - 18 - 18 - 18 - 18 - 18 - 1	1000	75. Ac.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		et gasal		
1854 feeding Wash Rack Area								
as existing Steam and Condensate				Service Servic		200 A 100 A		ar in the state of
LINE. Install (35) Thorty-five	420	LF	7	18820	175	5880	Though the state of	\$14,700.
Concrete Piling or Pipe Support				and the second				37590.
for Piping, Min- 16"x 16"x 12"	1 - Anna Barrellin	ļ,				esti		
		12.5	78.	100				
	man Jaka y		and the	and the Maria American	e de la composition della comp			
							1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
		42.51.020			Name to the little of			
TOTAL			Carlotte State Special	23625		applement of the second Mea		37590

113X811

1







10" STEAM LINE

PIPE SUPPORT 50.00
WELDED STEEL
1/2" Carbon Steel
Rod

Q. 85 EA.

ADJUSTABLE YOKE
CARBON STEEL
WITH C.I. POller

2." CONDENSATE

2" CONDENSATE RETURN LINE



DATE: 1 OCT 1987

FROM: BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.

TO: FUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

SUBJ: ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8R024

ENCL: (A) ESTIMATE WORK SHEET(S) FOR R1 FUNDS

(B)

1. TYPE OF SERVICE REQUESTED:

REROUTE STEAM LINES AND CONDENSATE LINES NEAR

FC-202 GRD G10A

INCORP WITH 8M54CN

2. DESIRED COMPLETION FISCAL YEAR: 88

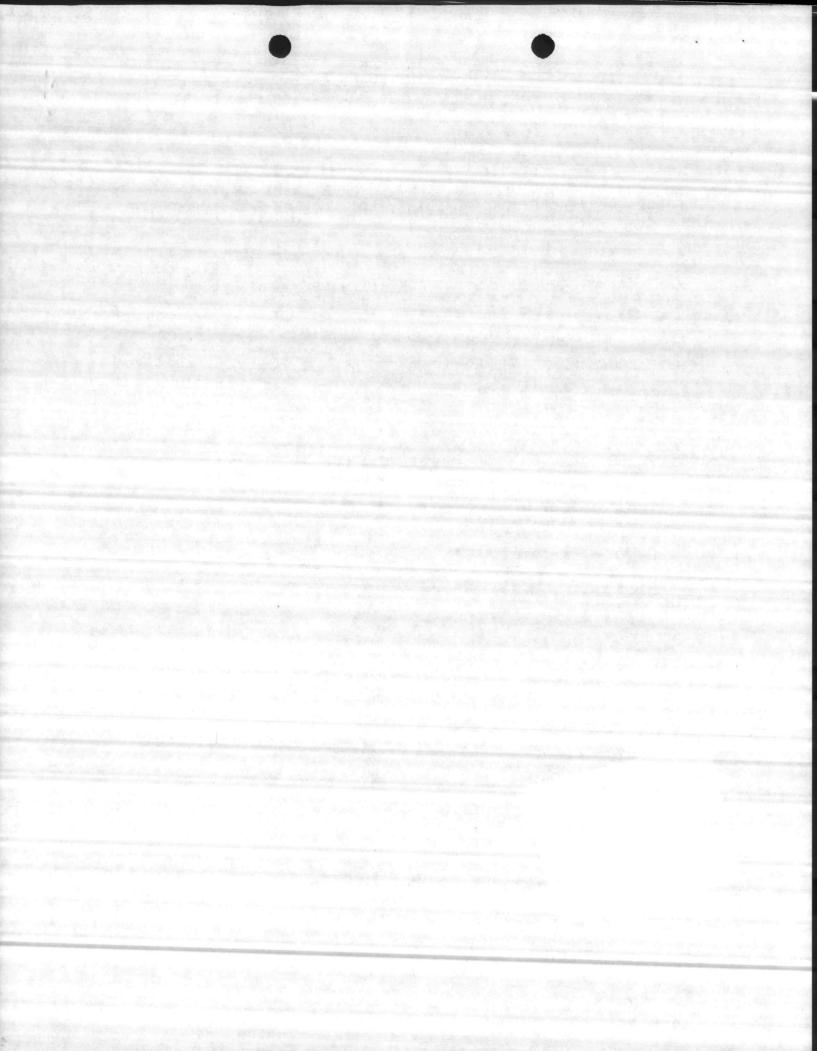
3. FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: R1 BUILDING/FACILITY IDENTIFICATION FOLLOWS: GRD G10A,

ESTIMATE COST IS \$ 17,000.00

4. POINT OF CONTACT IS GREG SHOEMAKER

, PHONE 5794





DATE: 1 OCT 1987

FROM: BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.

TO: PUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

SUBJ: ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8R024

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(B)

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REROUTE STEAM LINES AND CONDENSATE LINES NEAR

FC-202 GRD G10A

INCORP WITH 8M54CN

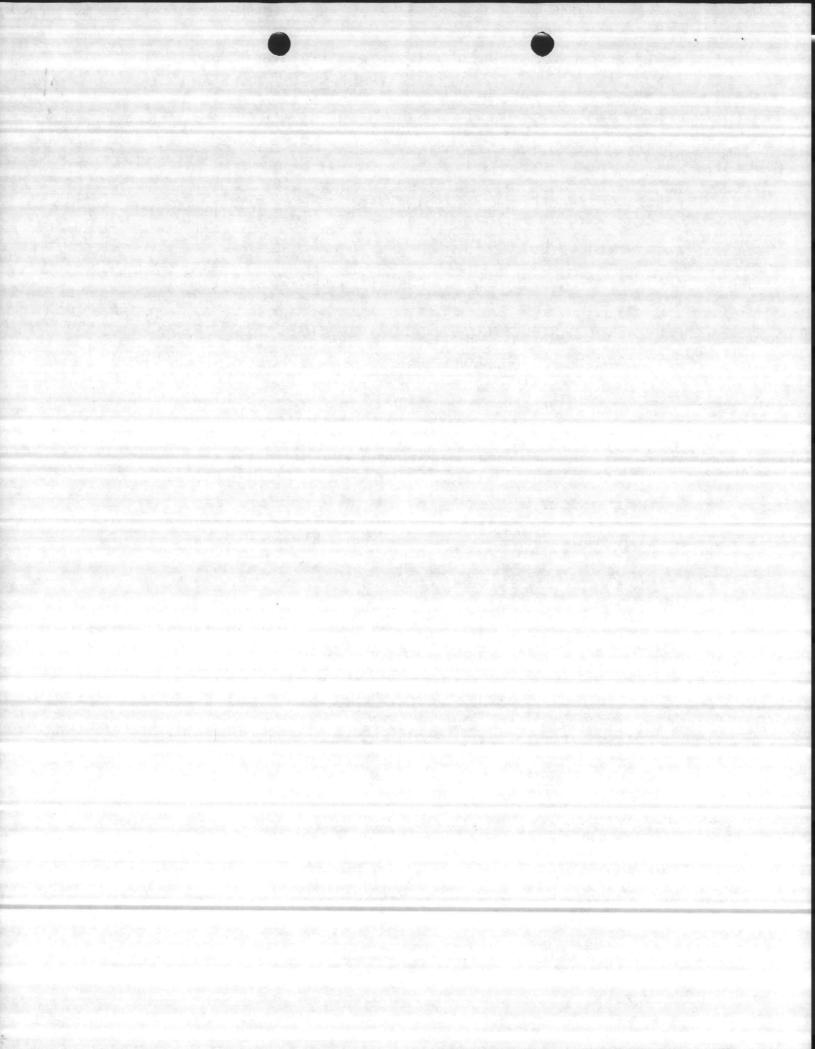
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ESTIMATE COST IS \$ 17,000.00

4. POINT OF CONTACT IS GREG SHOEMAKER

, PHONE 5794



ACTIVITY AND LOCATION	entral establishment	14 p. 2 p. 10	CONSTRUCTION	CONTRACT NO.	eliger grafit fraktis	The part of the second	IDENTIFIC	CATION NUMBER	
NEAR F.C. 202		1		Beaun			CATEGORY CODE NUMBER		
RE-ROUTE Stenm & Consensate	Lines	134	STATUS OF DES		FINAL O	L Other (Specify)		R NUMBER	
ITEM DESCRIPTION	QUANTI NUMBER	TY	MATE UNIT COST	TOTAL	UNIT COST	TOTAL	ENGINEER UNIT COST	TOTAL	
Basic cost	at stopp books are as known population	i je r		5400		6600		12000	
OVER HEAD + 15%	16 14 (g) 14 - 14 (g)	3 3.7 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	en en de ge	810		990		1,800	
Community of the Commun		14.30 		6210	Services	7590		13,800	
LABOR (TAKES, INS 5.5.) + 18%	artin kultimeri (Kawa) Majawa Kata	programme and the second	der vite Hans		e something			1366	
Material + 4%	Borling Control	4.40						248	
Sub Total	green in the second of the sec	es Dallack es electric					100000000000000000000000000000000000000	15,414	
PEOFIT + 10%	1774 : 8 (1943) : 1 035 : 2	No age of		e seek in hijke te				1,541	
SUB TOTAL				an grant the Samuel	yales	Marks Commence		16, 955	
Bond + 170		1944 S		30 (F) (F) (F)	Garage (1985)		1	170	
Sub Total		37 36 (53	e i faggara	The State of the S	kana hidanitig		7 (2 m x 1 m x 2 m	17,125.	
PRAND TOTAL (Rounder off)	Charles and Charles and Charles	Samericky A. San		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	No optioner (-	Const. Test (Test	(SAY)	17,000	
A PART TO THE STATE OF THE STAT				10 2 hr 14 3 2 S. C.					
Maria de la companya de la companya Companya de la companya de la compa	gara (de la completa de la completa Completa de la completa del la completa de la completa del la completa de la completa de la completa de la completa de la completa del la completa de la completa del			A Company of the St.					
				- 1000			The State		
EMPLIMITATION TO THE TRANSPORT OF THE PROPERTY	CENTRAL CONTRACTOR SERVICES			The second of the second	gerit for view topy for a			* 1982 200 m (* 1982) 1. (* 1982)	
		us validas.			The Milderson	The same of the sa			
en de la companya de Mangananta	in the second							40-14	

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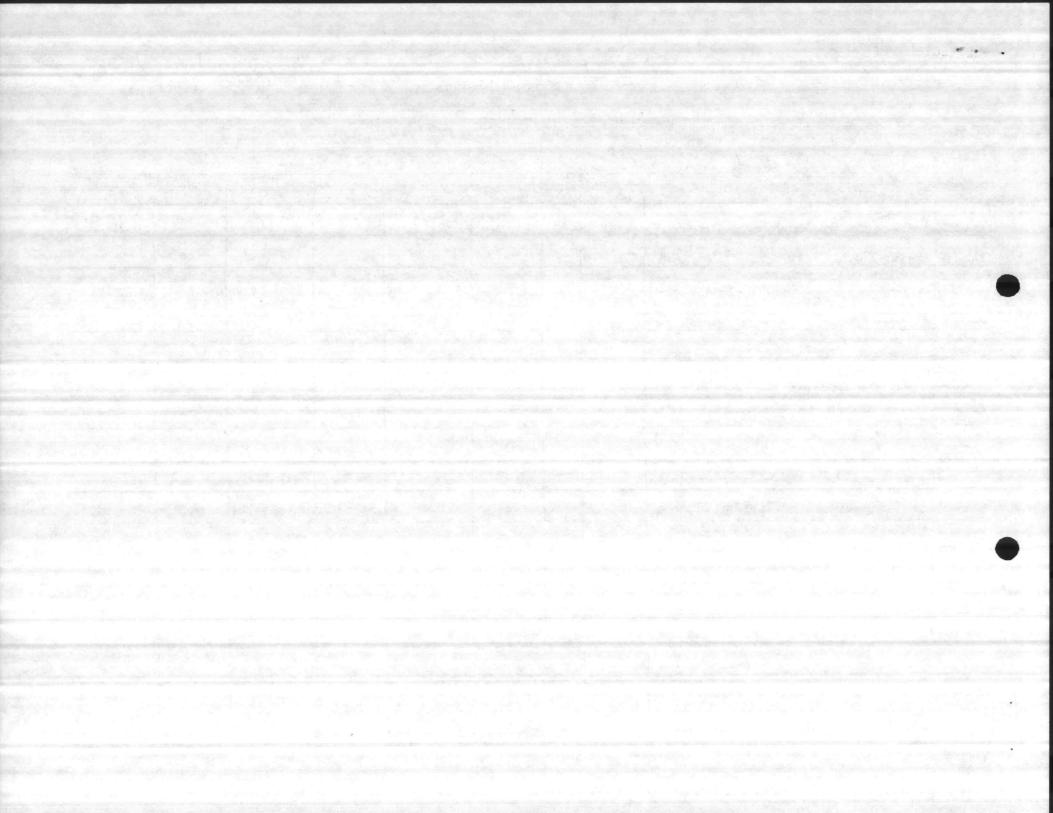
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ACTIVITY AND LOCATION	if have a firm	Property Services	CONSTRUCTION	CONTRACT NO.	ANTENNA	n de la companya de La companya de la co	IDENTIFIC	ATION NUMBER		
PROJECT TITLE	•	era (hodi) Sansa ista Sansasian Sansasian	ESTIMATED BY	of a.mu	hamn	rad	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Y CODE NUMBER		
Re-route Steam of Condensate I	inls	14.4	STATUS OF DESI	GN 30% 100%	FINAL Oth	er (Specify)	JOB ORDE	JOB ORDER NUMBER		
ITEM DESCRIPTION	QUANTIT NUMBER	UNIT	MATE! UNIT COST	TOTAL	LABO UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	TOTAL		
Disconnect steam and conden-	A CALL			1800		1200		3000		
pate lines from bldg. FC 202	alemente di constante di La constante di con	els ser velstigs	and the second	on regardad. Local Republished	or of Portogram well filed the else					
(Hating Plant) and connect to	ore for the grown	i de como est tra 100 fuebros		ann a saine agus ag gailte ag	25-87 E.A.					
main stram and condensate	ender große en Meiden gegen	13.25 23.25	n Mariania (n. 1.) La cinema (n. 1.)		and the second			transport to the second at the		
lines running parallel to	dinestrativ	altrigation			Catalogis (1997)	na Arengo espek Santa espek				
main Service Road in	ASAM STATE	erranis.		o postav Designatio	in Congress	Ali San Para Para Para Para Para Para Para Pa				
French Creek. (note:		erent Henri			And received the second		a Palatana.			
values pipe, etc. included)		no stillega polysolithis	ender in de			or State of the St	plant of the second			
	toggs Paris Happy Palicas			an sample problem.		me it has been	n in the second			
			anteriorista de la compansión de la comp			ara i chique rationale di Anni chique rationale di	1 726 × 500			
	and the second	adentis Naras		and Sandard		alitatia per 18. a. a. 200 per jenas 18. a.	ar and the second			
the Same and the second se	gr. Andrews				e in the signer and	reformational exemple Programme 18 (1865)	300 mag 10 mg. 300 kg kama 20			
	ander Highligh Kalifornia	A Casha	10 mg		and the state of t	in a state of the	7. T. 19.			
				Contract to		Control of the second of the s				
	et folger sæte Brikker sæster	legenige ora-pay	erregion (1971). En festivo (1971).	olika (d. 1944) 2009 - Mary Mary P	Lamin La Graphia La Casa de Casa	ar og skrigter. Leg Stogfart skrigter	The Control			
			y in Tanggang	· v · i beliefen		30 (25) (6 Carlos a 19)				
	A PARTIE		naka ya Tana	and the second	Annahar Maray		- (

ing salah salah



Area & Facility	No. FC202 Date Inspector & Time (Hours) Used	Sheet #	/ of	Sheets
Variable and the	19/1587 Muhammod			2000
Work Urgency	#한 이 문학을 마시겠다면 하나요 보다. 나는 마시 아이를 하는 이로 바다를 하는 사람들이 되었다. 나는 이를 하는 것이 되었다면 하나요 하는 것이 되었다면 하나요 하는 것이 되었다. 그는 것이 되었다면 하나요 하는 것이 되었다면 하나요	*Action* *Taken	Man Hours	Total Cos
Center Code *	regarding needed corrections.		rigii iloui s	TOTAL TOTAL
Section Courses	Disconnect steam and condensate lines from building			
rates Professional Management	FC 202 (stating plant), and connect to main steam		A Property of the	
Alaman Caraman	and condensate lines running parallel to main		11777717	THE RESERVE
	Service Road in French Creek.			74 P
		E. T.	F 28	图别 为证证
1.	Edcavate and expose steam and condensate lines			1000
4-37	located underground in front of bldg FC 202, Cut off	/	100	7 68
Hermin Land	and cap lines supplying buildings FC 100, FC 190,		en in water	of the Maria
	FC 200, FC 241, and FC 251 in port of bldg FC200	? -		
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	The the three steam and the three condensate lines			
	together in front of FC 202, Fabricate and install	1000		"不是不是"。 "不是不是"。
Merchanism Commercial	steam site (2 each) with gate values, sump pumps,	10000	and the same	Albar.
Secretary of the second	ladders, etc. in front of bldg FC 202 and near the		Star Starter	10 . O . O . O . O . O . O . O . O . O .
	entrance, between blogge. FC 241 and FC 251.			
2,	, Re-route existing 3" steam and 1/2" condensate	all and the second		4年期中
	lines crossing main service Road in part of bldg.			10 kg (10)
	FC 202 to steam but located on opposite aide or main		W. 196	
	Service Road. Cut existing steam and condensate lines			
Table 1	and connect them to existing 8"steam and 6" condensate			
	mains running parallel to main Service, Road,			- 446
A HOOFHAY AAAF	• Fater appropriate Code as follows:	* * ACTI	ON TAKEN	A PERSONAL PROPERTY AND ADDRESS.

^{*} URGENCY CODE: Enter appropriate Code as follows:

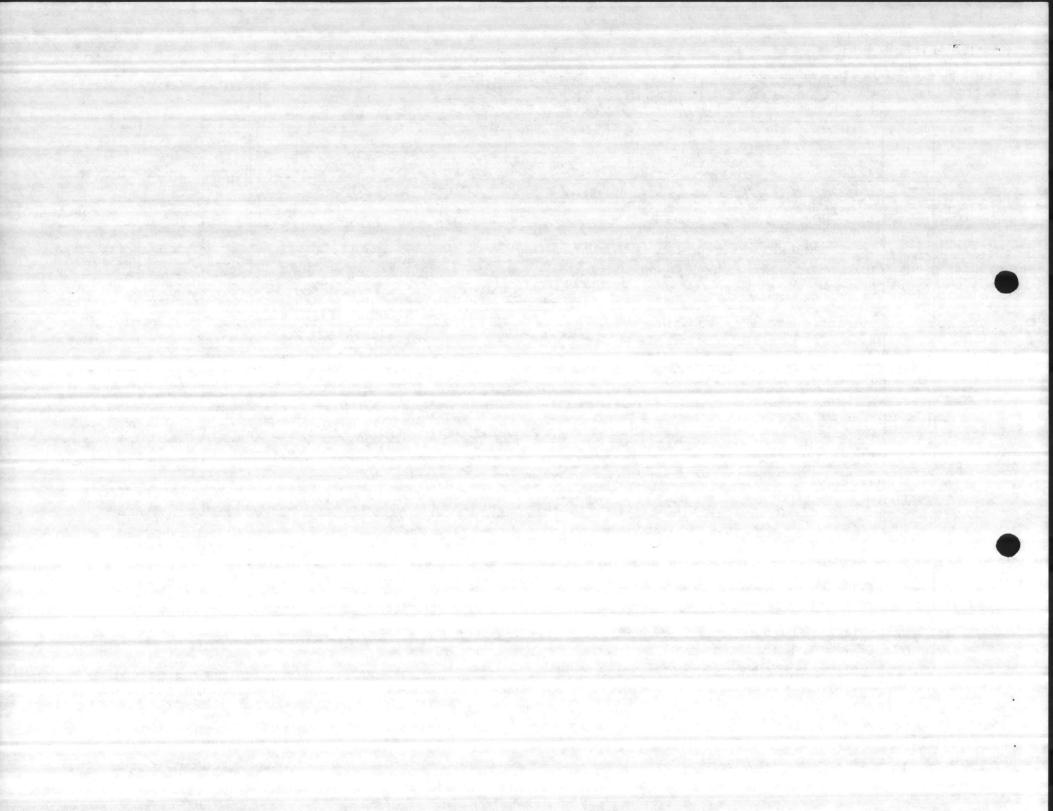
A. Emergency nature, should be corrected as soon as possible.

B. Essential Maintenance, should be corrected within one (I) year.

C. Projected Maintenance, correction can wait one or more years, Indicate # of years.

^{1.} Emergency

^{2.} Preventive Maint.
3. S. W. O. P.
4. Deferred Maintenance



Area &	Facility	y No. FC 202 Date Inspector & Time (Hours) Used 9/5/87 Muhammad	Sheet #	2 of	Sheets
Work	Urgency	DEFICIENCIES: Include Size, Sketches, and/or Special Information	*Action * Taken		IMATE
Center	Code *	regarding needed corrections.	Taken	Man Hours	Total Cost
ar springers	3.	Excavate and expose 3" steam and 12 condensate		2017	with his pro-
i de la	Ser Japan Ser	lines located underground near the entrance between	1 - 16		
	12. 罗斯克斯	FC 241 and FC 251. Cut and caps (2) two lines coming			
arsind - H	3766.6	from FC 202, Jap existing 8" starm) and 6" condensate			
		lines, running parallel, to main service, Road and			
	a jest dal	connect 3" steam line and 1/2 "condensate, line	n Marining		TY LIVE
	7 - 10 4 - 764, 1430	supplying bldgs, FC24 and FC 251 to stam and		Principal	
		Conding at main 1.			
			A 1984 - 1 11 - 11 - 11 - 11 - 11 - 11 - 11	· 图图 在101 字。	Continue lines
Palasta mentali Palasta Halla	4.	Install new pits at FC 202 and at entrance.			· 对数据1436
		between FC 241 and FC 251.	1915 W 1825	+1-2-1	188
er Bester verse in e		THE STATE OF THE S	Service speci		
ike Kilogram	Costally	and the control of the second of the second of the second of the control of the second	1	raine, is the life	and the state of the second of
up to light of	argia.	tier name et managements, et au little personale en mandeligge de la reger proposition en augusticome de la co	en en atra	Listing!	A PARTICION
renderation to	100 to 10			74.87.64	
under plant	and the second		1 Part of 1884		
	Same				14.00-754-7
	all of the second		N T	0.00	
	A Company			all are one secure	
	Called the Called				The second of the second
Carlot and the			res Michel	- Higgspiele A Alb	of the second and water the

ACTION TAKEN

- 1. Emergency
 2. Preventive Maint.
 3. S. W. O. P.
 4. Deferred Maintenance

^{*} URGENCY CODE: Enter appropriate Code as follows:

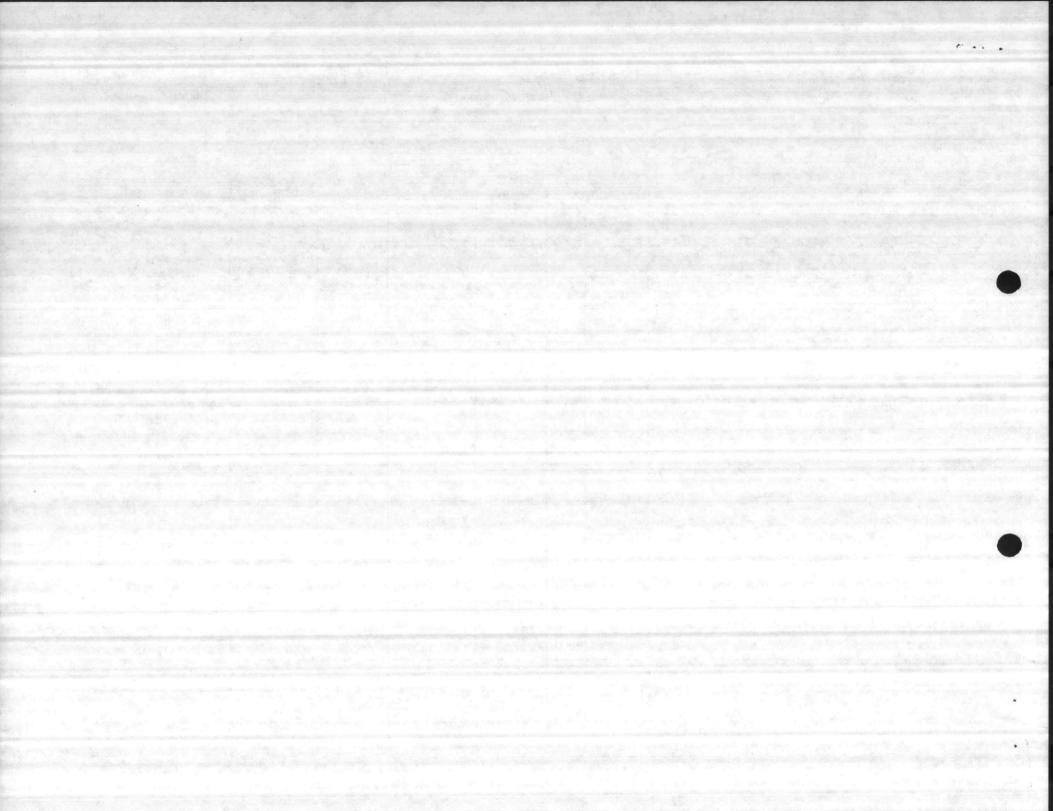
A. Emergency nature, should be corrected as soon as possible.

B. Essential Maintenance, should be corrected within one (I) year.

C. Projected Maintenance, correction can wait one or more years, Indicate # of years.

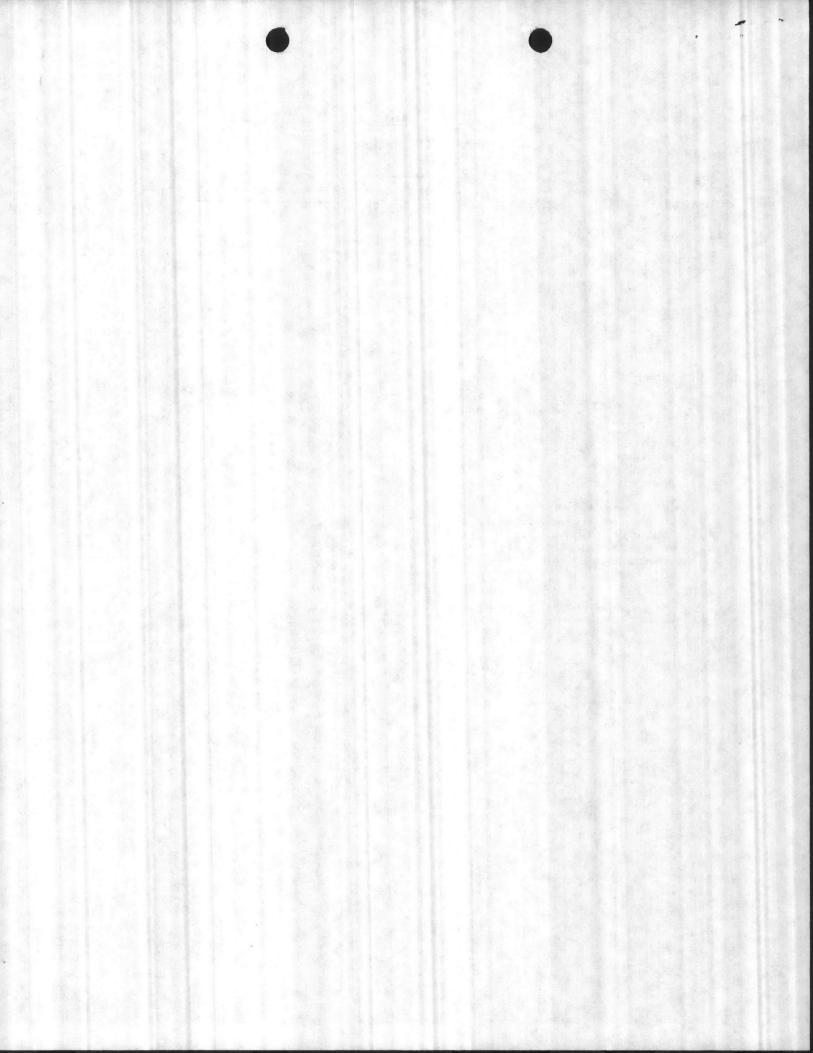


NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIM	IMATE DATE PREPARED 9-14-87				SHEET 2 OF 2		
ACTIVITY AND LOCATION	April - Agricon St.	recipies	CONSTRUCTION	CONTRACT NO.		and the second	IDENTIFICA	ATION NUMBER	
NEAR F.C. 202			ESTIMATED BY	Bron	m		CATEGORY CODE NUMBER		
Consteact Steam p.Z		da spesione Grand Marie	STATUS OF DES		er (Specify)	JOB ORDER NUMBER			
ITEM DESCRIPTION	QUAN	TITY	MATE UNIT COST	RIAL COST TOTAL	UNIT COST	OR COST TOTAL	ENGINEERI UNIT COST	NG ESTIMATE TOTAL	
Constant Two Concepts Steam pits	2	ea		3600		5400	managan ki ili mga	9000	
NEAR F.C. 200 . P.LS TO BE		5 9 3 e	2000		1 - 12 - 13 - 14 - 15 - 15 - 15 - 15 - 15 - 15 - 15		Paragraphia	47 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	
8'wide x8' Long x 10' DEEP with	La Marija	e Santa	and Sandra and Allendaria		e de la companya de l			Value of the second	
APPRIX 2' OF WALLS Above glound	100 kine 20		1.5 (a) 1.5 (b) 1.5 (c) 1.5 (c		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
LEVEL. TOP OF PIZ TO BE				A CALLERY AND A					
OPEN WITH GALVINIZED GRATE	100 S (100 sg.)		The special section of the section o				The College	in the second se	
IN TOP FOR VENTILARLION AND		37.5 38.45	Control of the Asset				1-1-1-1-1		
SAFETY Concrete WAIIS BELOW		7.00						The second secon	
GROUND LEVEL TO BE WATER PROFED		\$123.75°	TOWN THE S	A CONTRACTOR	3 (40) - 504 (A)		10 (14 (14 (14 (14 (14 (14 (14 (14 (14 (14	e e e e e e e e e e e e e e e e e e e	
AND A SUMP Pump with in					Secretary Secretary		The second state of the se		
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ONE CLENNER OF P.T Floor.				1,50 Perúvet (
				A Company of the Comp					
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	0			A STATE OF THE STA				0	
Total Structual.	2	2a		3600		5400		9000	
			1000	Carlotte San Street					



			TON FORM	
	MINOR CONSTRUCTION P	ROJECT (ALIDAT	TOR TORK	
Requestor/Unit	UTILITIES	3045		
				0411105
Description (PONSTRUCT ST	EAN PIL	AND IM.	-0/0 -/10-
Descripcion C			FC	- 200 Ans
1. Command Imports	ince:			
Fon Reginm Ridy		2.0		
2. Impact on Miss	ion:			
High . Medium		3.0		
Low None		1.0		
3. Impact on secumental protection	rity, habitability, or energy conservati	morale/welfare	e/training, Ser	
High Medium		2.0		
Low . None		1:6		
4. Requirement 9	enerated by:			
CMC direction Support equication Concurrent W	n pment installation ith repair project	2.5 2.0 1.5 1.0		

(1) 4.0 x (2) 4.0 x (3) 2.5 x (4) 1.5 = 60 (Total)



WORK REQUEST (MAINTENANCE MANAGEMENT)

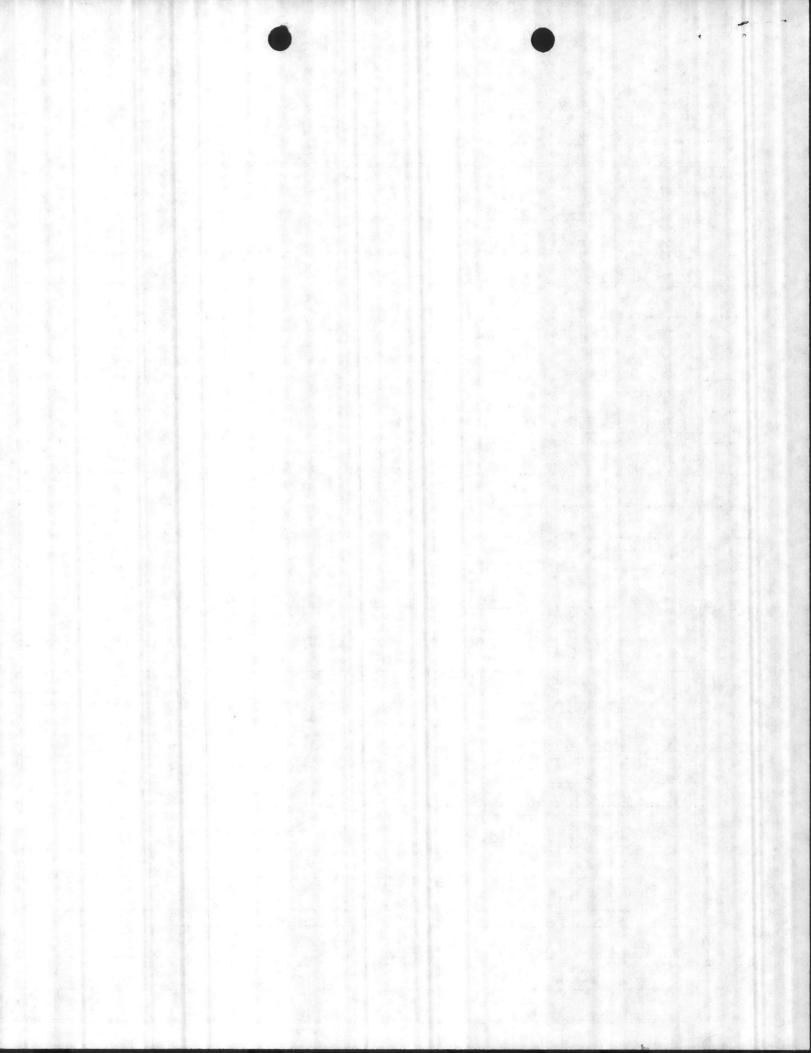
e. Contingency \$ 1 DISAPPROVED. (See Reverse Side) 16. SIGNATURE 17. DATE PART III—ACTION (Filled out by Requestor)	NAVFAC 9-11014/20 REV. 2-48) 5/7 Supersedes NAVDOCKS 2351		88 MINOR CONSTRUCTION	in NAVFAC MO-321)
ROUGH NO. 126-87		Part of the Control o	Requestor see Instructions on Reverse Side	UTILITIES
Director, Utilities Branch 126-87 U., 5 100 Director, Operations Branch 107 Apr 87 108 Brown 100 109 Contenuat 109 Contenuat 109 Contenuat 109 Contenuat 109 Contenuat 109 Construct a new steam pit at FC-202 and provide necessary valves, pumps, and piping to tie in Bldgs FC100, FC200, FC241, and FC251 to the 8" steam main along Main Service Road. 100 Justification: The boilers and auxiliary equipment at FC202 Steam Plant require extensive repairs due to age and operate on No. 2 oil. Providing at ie in to the main steam line along Main Service Road will eliminate the need for FC202 Steam Plant and reduce operating cost due to steam requirement being met by coal burning in lieu of No. 2 oil which is more expensive. Estimated Cost: \$20,000 PARTIL—COST ESTIMATE FINEST CONSCILLENT FART III—COST ESTIMATE FRATE III—COST ESTIMATE III III III III III III III III III I			PART I—REQUEST (Filled out by Requestor)	
Director, Operations Branch ROWSTROW Cost EDMANT EMPRORMANICO WORK	Director, Util	ities Branch		126-87 Ur, 5
TABLE THE BROWNING CLU C. H. Baker, 5161 BESCHTHOLO OF WORK AND AUTHRICATION (Machining decision, type, size, quantity, etc.) 1. Construct a new steam pit at FC-202 and provide necessary valves, pumps, and piping to tie in Bldgs FC100, FC200, FC241, and FC251 to the 8" steam main along Main Service Road. Justification: The boilers and auxiliary equipment at FC202 Steam Plant require extensive repairs due to age and operate on No. 2 oil. Providing a tie in to the main steam line along Main Service Road will eliminate the need for FC202 Steam Plant and reduce operating cost due to steam requirement being met by coal burning in lieu of No. 2 oil which is more expensive. Estimated Cost: \$20,000 FART HI—COST ESTIMATE PART HI—COST ESTIMATE (Filled out by Mointenance Control Division if estimate requested) 11. TO. 12. ESTIMATE NO. 13. COST ESTIMATE ANTERIOR OLUMBERS STATE NO. 14. SECTION/PARA ATLACHED PART HI—COST ESTIMATE ANTERIOR OLUMBERS STATE NO. 15. CONTINUES STATE NO. AND RW. AND RW. AND RW. AND RW. AND RW. PART HI—ACTION (Filled out by Requestor)	Director, Oper	ations Brancl	h *	17 Apr 87
A CON RUTHER SPONMAND CALL C. H. Baker, 5161 A DESCRIPTION ON WORK AND ANTHYLAMON (Methoding Secution, Spor. sirt., quantity, etc.) 1. Construct a new steam pit at FC-202 and provide necessary valves, pumps, and piping to tie in Bldgs FC100, FC200, FC241, and FC251 to the 8" steam main along Main Service Road. Justification: The boilers and auxiliary equipment at FC202 Steam Plant require extensive repairs due to age and operate on No. 2 oil. Providing a tie in to the main steam line along Main Service Road will eliminate the need for FC202 Steam Plant and reduce operating cost due to steam requirement being met by coal burning in lieu of No. 2 oil which is more expensive. Estimated Cost: \$20,000 PART III—COST ESTIMATE [Filled out by Mointenance Control Division if estimate requested] 13. COST ESTIMATE [Filled out by Mointenance Control Division if estimate requested] 14. SETEMPARAMATIAGED 15. ANYSOVED. MASED ON PRESENT WORKDOAD, THIS JON CAN BE PROGRAMMED TO STATE NI ANYSOVED. MASED ON PRESENT WORKDOAD, THIS JON CAN BE PROGRAMMED TO STATE NI Restal/Usage \$		AATE IX	JEERORMA*ICE OF WORK	So, REGUEST WORK START
1. Construct a new steam pit at FC-202 and provide necessary valves, pumps, and piping to tie in Bldgs FC100, FC200, FC241, and FC251 to the 8" steam main along Main Service Road. Justification: The boilers and auxiliary equipment at FC202 Steam Plan require extensive repairs due to age and operate on No. 2 oil. Providing a tie in to the main steam line along Main Service Road will eliminate the need for FC202 Steam Plant and reduce operating cost due to steam requirement being met by coal burning in lieu of No. 2 oil which is more expensive. FRACE CHARCELANE INTERPRETATION Interpreta			Aug of the control of	7. SKETCH/PLAN ATTACHED
1. Construct a new steam pit at FC-202 and provide necessary valves, pumps, and piping to tie in Bldgs FC100, FC200, FC241, and FC251 to the 8" steam main along Main Service Road. Justification: The boilers and auxiliary equipment at FC202 Steam Plan require extensive repairs due to age and operate on No. 2 oil. Providing a tie in to the main steam line along Main Service Road will eliminate the need for FC202 Steam Plant and reduce operating cost due to steam requirement being met by coal burning in lieu of No. 2 oil which is more expensive. Estimated Cost: \$20,000 PART III—COST ESTIMATE 12. COST ESTIMATE 13. COST ESTIMATE 14. SECTION ANTAGED 15. APPROVED. MASED ON PRESENT WORKGOAD, THIS JOB CAM BE MORE MARKED BY STAMPONED. ARE MADE AND ANALASE. AND RUMBERS BY STAMPONED. AND RUMBER			GRD GIL) H ☐ YES ☑ NO
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11. TO. 12. ESTIMATE NO. 13. COST ESTIMATE 14. SKETCH/PLAN ATTACHED VES NO 15. 15. APPROVED. PROGRAMMING TO START IN APPROVED. BASED ON PRESENT WORKLOAD, THIS JOB CAN BE PROGRAMMED TO START IN AUTHORIZED BY 25TH-OF ARE MADE AVAILABLE. AND FUR C. Contingency 16. SIGNATURE 17. DATE PART III—ACTION (Filled out by Requestor)		(Filled out h		
14. SKETCH/PLAN ATTACHED YES	11. 10.	words against the same	na katalan kangalan sa katalan kanga anakata a sa sa sanga anakata sa	
YES	Committee of the state of the s	《《日本学》 表达图象	The state of the s	
a. Labor b. Material c. Overhead and/or Surcharge d. Equipment Rental/Usage \$ AUTHORIZED BY 25TH-OF ARE MADE AVAILABLE. c. Contingency \$ DISAPPROVED. (See Reverse Side) 16. SIGNATURE PART III—ACTION (Filled out by Requestor)	13. COST EST	IMATE		
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c. Overhead and/or Surcharge \$ PROGRAMMED TO START IN d. Equipment Rental/Usage \$ AUTHORIZED BY 25TH OF ARE MADE AVAILABLE. e. Contingency \$ T DISAPPROYED. (See Reverse Side) 16. SIGNATURE 17. DATE	A THE COLUMN THE STATE OF THE S	13.75 #15.75 - 7.45 1. Elizabeth	"国际政治的企业"。1955年第二次的国际中心	에 없는 내가 있어요 어때를 하고 있는데 얼마를 가지 않는데 이렇게 되었다. 이번에 살아내는 이번에 살아가는 사람들이 되었다. 그렇게 되었다면 하는데 살아 없다.
and/or Surcharge d. Equipment Rental/Usage AUTHORIZED BY 25TH-OF ARE MADE AVAILABLE. E. Contingency DISAPPROVED. (See Reverse Side) 17. DATE PART III—ACTION (Filled out by Requestor)		1		
d. Equipment Rental/Usage \$ AUTHORIZED BY 25TH OF ARE MADE AVAILABLE. e. Contingency \$ DISAPPROVED. (See Reverse Side) 16. SIGNATURE 17. DATE PART III—ACTION (Filled out by Requestor)	50 : 시대 : 1 (100 10 11 11 12 12 12 12 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14	· Acceptance		
e. Contingency \$ DISAPPROYED. (See Reverse Side) 16. SIGNATURE 17. DATE 17. DATE PART III—ACTION (Filled out by Requestor)	그리는 보이면 무슨 사람들이 사용하는 것 같아 살아 보다면 되었다.	•	AUTHORIZED BY 25	TH-OFAND FUND
f. TOTAL \$ PART III—ACTION (Filled out by Requestor)		· i · · · · · · · · · ·		
				17. DATE
18. TO:	Carlotte Committee Committee to	era i era in communicación de la communicación	PART III—ACTION (Filled out by Requester)	CONTRACTOR OF THE SERVICE SERVICES.

20. WORK REQUESTED

19. AUTHORIZATION TO PROCEED IS ATTACHED (Check one if other than PW funds are involved)

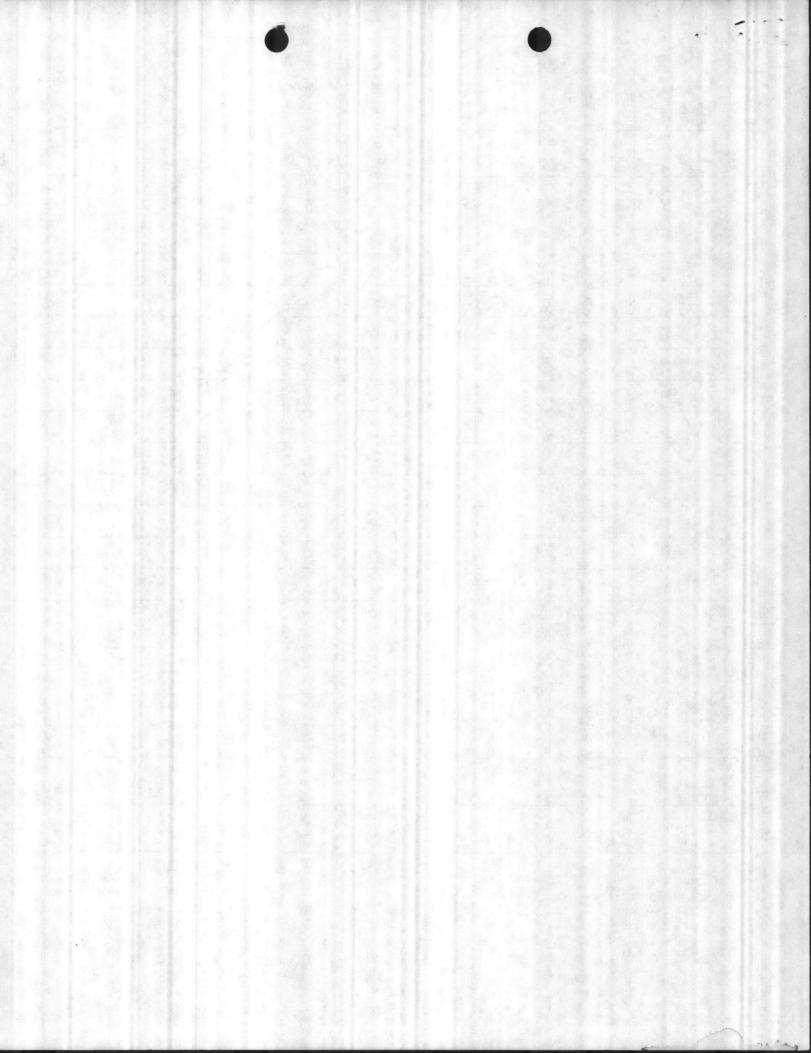
NAVCOMPT 140

21. SIGNATURE



OPERATIONS DIVISION ESTIMATING WORK SHEET MCBCL 11014/1 (REV. 04/87)	1. PRI	2. JOB ORD	DER NO	3. AMEND NO	4. REQUEST	NO
5. CUSTOMER	6. BRIEF TITL					
UTILITIES BO45	CONST	RUCT	NEW	STEAM ,	Pir	
7. SOURCE 8. STRUCTURAL MECHANICAL ELECTRICAL WORK DESCRIPTION	9. HOURS	10. UNIT	11. QTY	12. MATERIAL COSTS	13. LABOR COSTS	14. TOTAL COSTS
TO ELIMINATE FC202				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		20,500
STEAM PLANT						
TO INCLUDE ALL NECESSARY						
WALVES, PUMPS & PIPING + CONCERNATION TO THE ONTE EXISTIN	E C					
STEAM LINE FROM MAIN						
STERM PLANT			1-3			
15. RECOMMENDED ACCOMPLISHMENT OF WORK	16. TOTAL T	HIS PAGE				
A. IN HOUSE	TOTAL FOLLOWING I	PAGES(S)				
B. CONTRACT		SUBTOTAL				
C. COMBINATION A&B	COI	NTINGENCY	4 11			
					TOTAL ESTIMATE	20,000
PREPARED BY Sanur	RECEIVED BY			a s Ta	DATE 8-24	20,000

SHEET ____ OF__



BASE MAINTENANCE DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

DATE:

24 JUN 1987

FROM: TO:

BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.

PUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

SUBJ:

ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M34CN

ENCL: (A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS

(B)

1. TYPE OF SERVICE REQUESTED:

REPLACE BOILER AND MECH REPAIRS BLDGS BA106 AND M230

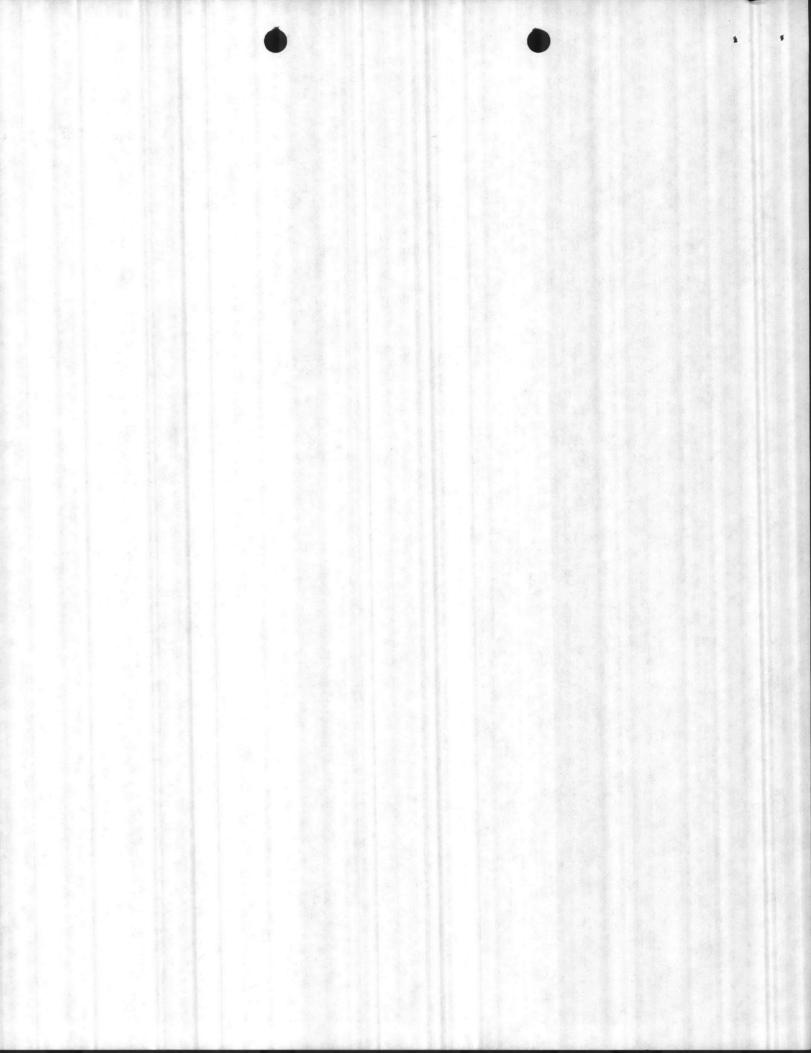
- 2. DESIRED COMPLETION FISCAL YEAR: 88
- FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: BUILDING/FACILITY IDENTIFICATION FOLLOWS: BA106, M230,

ESTIMATE COST IS \$ 566,155,00

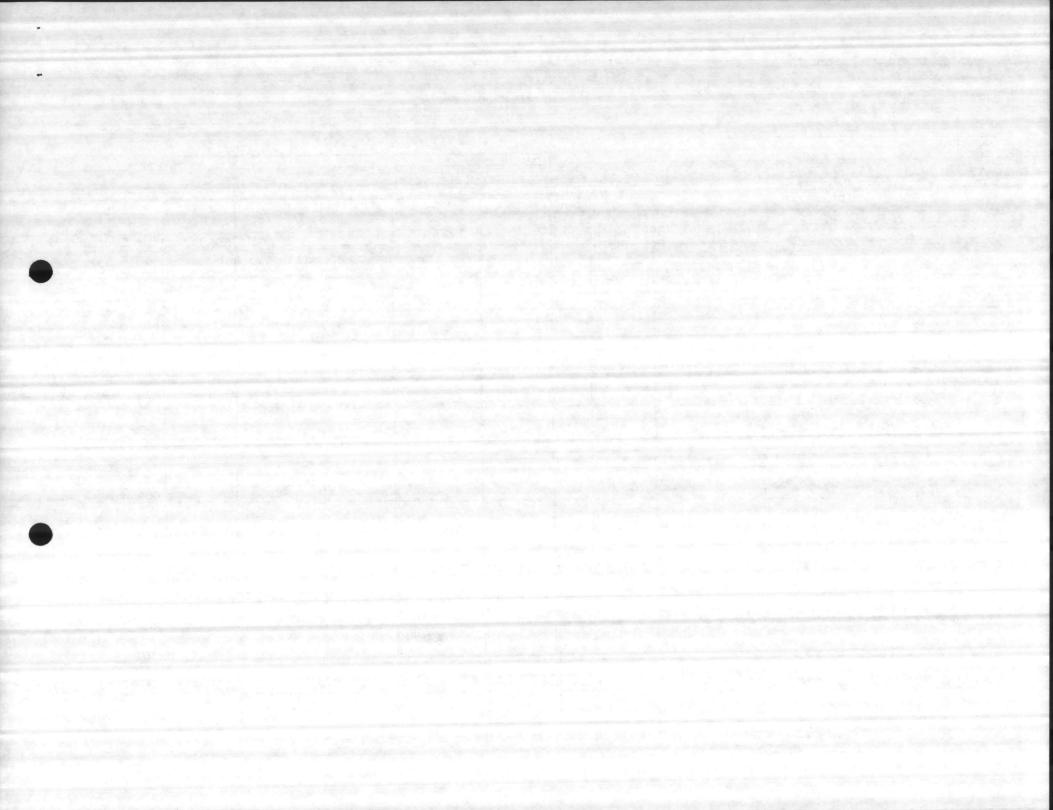
.4. POINT OF CONTACT IS GREG SHOEMAKER

, PHONE 5794

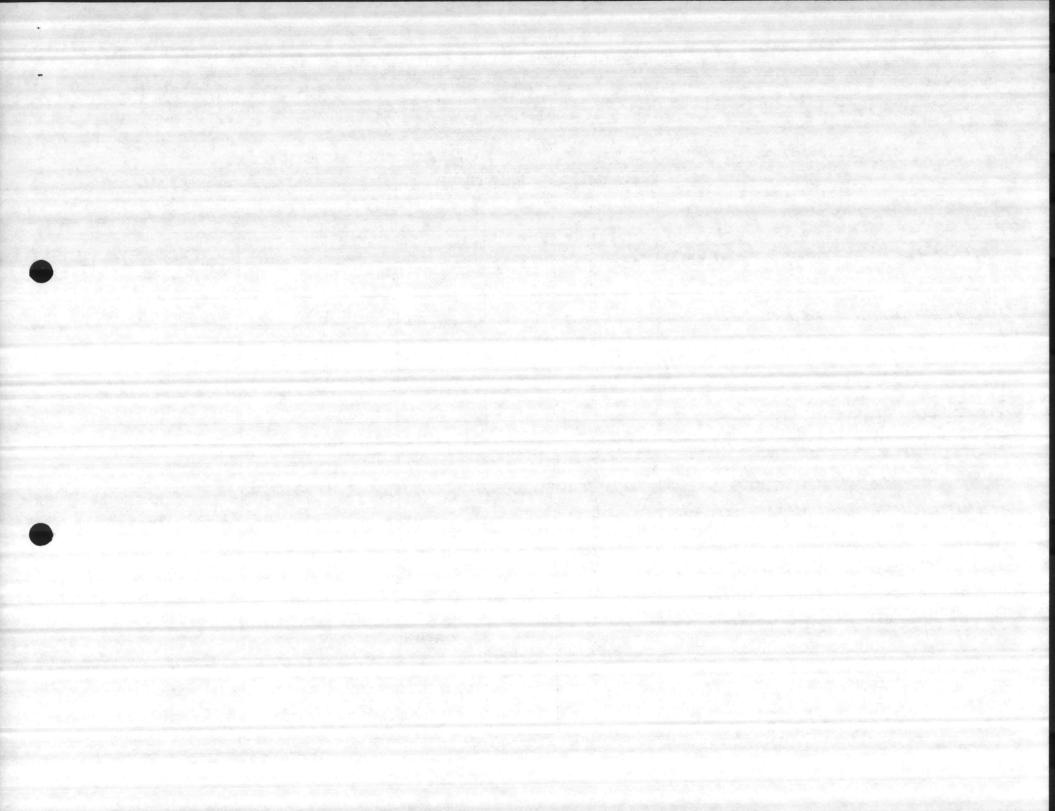
T.D. JEWELL BY DIRECTION



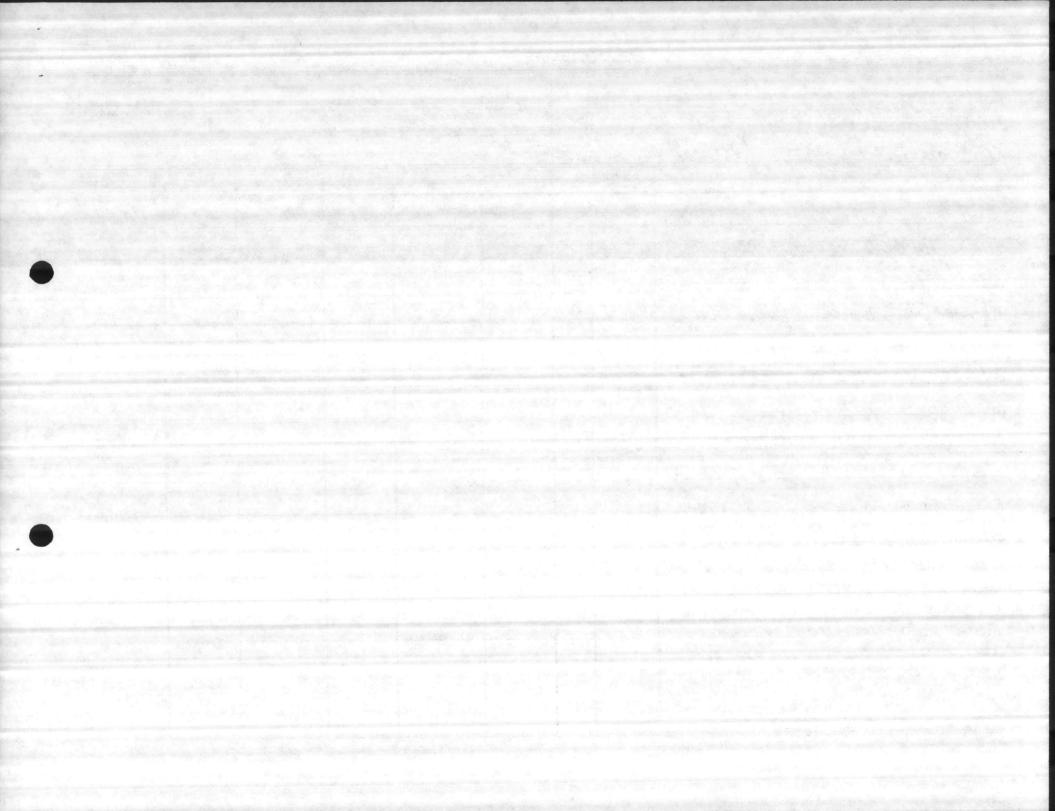
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ESTI	MATE			DATE PREPARED 5-20-87		OF
PROJECT 1/7LE		CONSTRUCTION ESTIMATED BY	CONTRACT NO.	and the second			CATION NUMBER
REPAIRS TO STRUCT, E	LECT, MECH, PLB	STATUS OF DES	IGN	NAL Other (Specif	γ)	JOB ORDI	ER NUMBER
ITEM DESCRIPTION	QUANTITY NUMBER UNIT	MATE	RIAL COST TOTAL	LABOR COS UNIT COST	TOTAL	ENGINEER UNIT COST	RING ESTIMATE
PAINT			300	6	00		900
ELECTRICAL		6	12500	12	500		25,000
MECH-PLBC.			41,000	93	000		134,000
SUB TOTAL			53,800	10	6100		159900
OVERHEAD 1590		yer e		n de tier			23985
LABOR 1890					terining of the		19,098
MATERIAL 570		ne a completa de la completa del completa de la completa del completa de la completa del la completa de la completa del la completa de la com					2690
SUBTUTAL						10 16 Japan 10 15 15 15 15 15 15 15 15 15 15 15 15 15	205,673
PROFIT 1090		100					20,567
SUBTOTAL							226240
Bond 190							2262
SUBTOTAL	Andreas St. Commission (Section 1997)				1		228,502
CONTINGENCY -10			All and the second second	residente fra et en	Market Harrison	Total age	22,850
BASIC CONTR. COST	7		N. 19.		•		251,352
DESIGN 690			ŋ			e e e e e e e e e e e e e e e e e e e	15,081
TOTAL EST COST							15,081
				en la propini de la company			



	NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	The state of the s	COST	ESTIM	ATE	and the state of t	DATE	PREPARED	SHEET	OF
	ACTIVITY AND LOCATION	/		-12 -141s.	CONSTRUCTION	CONTRACT NO.		option the second	IDENTIFI	CATION NUMBER
	PROJECT TITLE				ESTIMATED BY	RBAU	lman		CATEGOR	Y CODE NUMBER
	REPLACE BOILER,	FUEL TANK, RELAT	ED Ego	119	STATUS OF DES	IGN 30% 100%	FINAL Oth	er (Specify)	JOB ORDE	ER NUMBER
	ITEM DESC	RIPTION	QUANT	UNIT	MATE UNIT COST	RIAL COST TOTAL	LAB UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	RING ESTIMATE
(1)	REPLACE BOILERS	#64 TO INCLUDE				41,000		8,000		134,000
	WATER PUMPS, YALV.	ES, OIL Pungs, OIL				建 基準 14		State Const.		Million Committee
	METERS, PHINE AND			lare selle Operation	en de la comp					
	TO MAKE BOILER			Total	gana, sanari Mala relada			April 1		
- X	FUNCTIONAL FOR A	NUNMANED	Sayakakini S		AP 18		Section of the second			The modern contract of
	STEAM PLANT.		Park Styles							
2)	REPLACE UNDE	R GROUND OIL			Sept. April					Report Actions
	TANK WITH AN AN				Section (Section)				20 A	
	COMPLETE WITH RI	ETAING BERMAFF			gine de la reche Agrapia de la reche	44.0		ago a desarros. Para se a seguina a	Agenta Proposition of the contraction	A STATE OF THE STA
	LOADING PUMPS, OI	700 MATERIAL PROCESSOR OF THE SECOND PROCESSOR OF THE SECOND PARTY OF THE SECOND PROCESSOR OF THE SECO	e i seletjanis Pros Seletak	egin sugeta Ber e e est					1	A Property of the Control of the Con
	ATOR ECT. RE	그러는 요즘 아이들은 아이들은 얼마나 아니는 아이들이 아니는 아이들이 아니는 것이 없는데 그렇게 되었다.			CENTRAL TRANSPORT	and the street of	atim garage a		i to to storozake Projektoro	
3 448 3 448	FROM GROUND AN	ddispose of IT.						tras ;		Ser Se di Serie de la compansión de la c
31	REPLACE CONDENS	SATE RECEIVER	100 miles					r said a said	A Audie	
	MAKE UP TANK T	TO INCLUDE								
,	STEAM HEATER	COILS, GUAGES,					5 Not 100	tenerala. Albanasa	er en	
1	REGULATORS, THERM	ONETERS , VALUES	idala sebabb	askirmidi Salama	die view wenge			9.934		
	PIRNC, CONT					The State of				

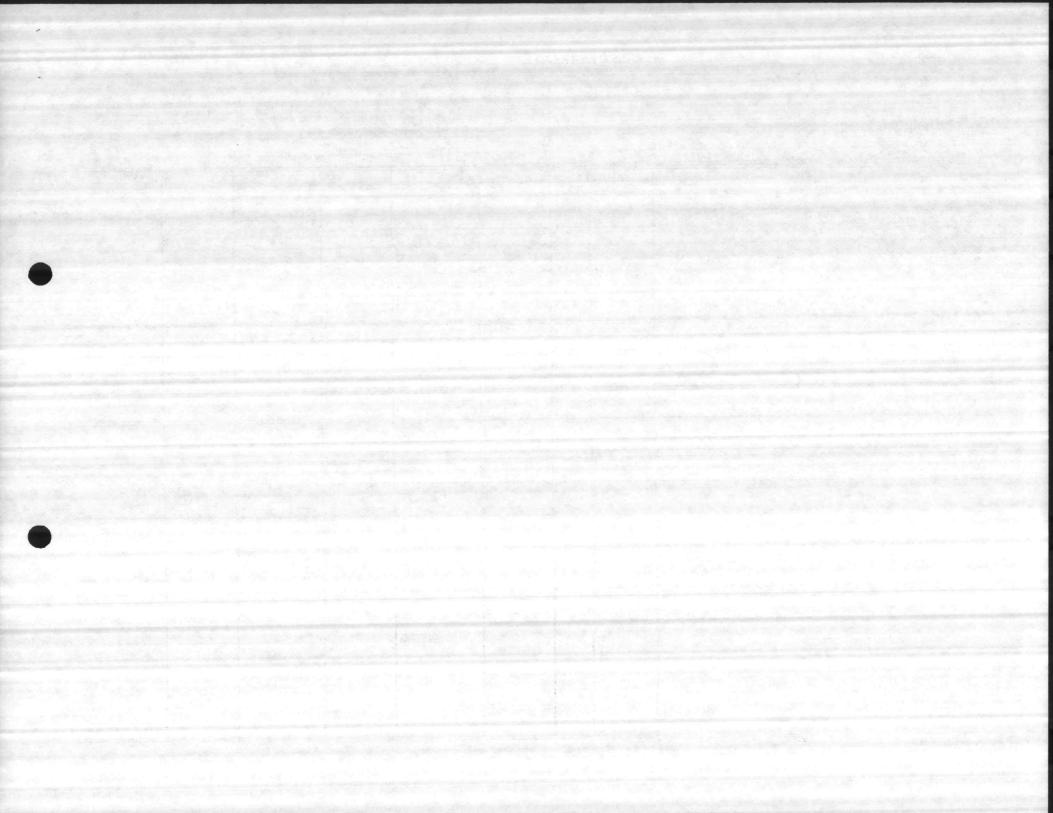


NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	and 2417A COST ESTIN				-8-87	SHEET OF			
BA-106						** AND (19 ³)	IDENTIFIC	ATION NUMBER	
PROJECT TITLE		ESTIMATED BY	REHAL	nan		CATEGOR	CATEGORY CODE NUMBER		
RPL, BOILER, FUEL TANK, AND RELATED	EQUIPME	ENT.	STATUS OF DESIG			her (Specify)	JOB ORDER NUMBER		
ITEM DESCRIPTION	QUANT NUMBER		MATER UNIT COST	TOTAL	UNIT COST	BOR COST TOTAL	ENGINEER UNIT COST	ENGINEERING ESTIMATE	
CONTIFROM SH # 1 - AND FLOAT CONTA	2015.			a see an	- 449 st880			####### ##############################	
TANKS TO BE LINED TO PREVENT	grand School Segr		And Super-		and the second second	a Armenta	The County of th	ardine and	
COORDSION.									
REPLACE EXISTING STEAMFLOW			100 Telegraph			Section 1995			
METERS WITH THE TYPE THAT HAS		in the		all the second who all	27,000,237				
24 HOUR CHART RECORDER, DIGITAL	4		As a second				Strategic and		
READOUT, 4-20 M.A. SICNAL AND	!								
10 TO I TURN dOWN RATIO,	2.75						6	viko.	
REMOVE ASBESTOS INSULATION					Jan Jan Jan G	GANG CA		e de l'alter.	
FROM MAIN STEAM HEADER AND						Tay Va di			
OTHER AUXILIARY PIPING AND REPL	RE		Company of the contract	ente e santa					
WITH CALCIUM SILICATE INSULAT	Tow	100 (100 fg) 100 (100 fg)	round of Arthurson	en en Barbar George (1885)	en e	i - 1	25-26-2		
WITH SMOOTH METAL COVERING.	A SHIP AND		Section 18 and 18					a Zasta	
REPLACE EXISTING PLANT MONITORING			properties .				is and sign		
EQUIPMENT WITH UPTO DATE MINI-					- 47 × 8 500				
COMPUTER FOR OPERATION OF UNMAN	VED	i endi	est reflection		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			erskie de lage De deskiede de l	
STEAM - CONT. SH #3									

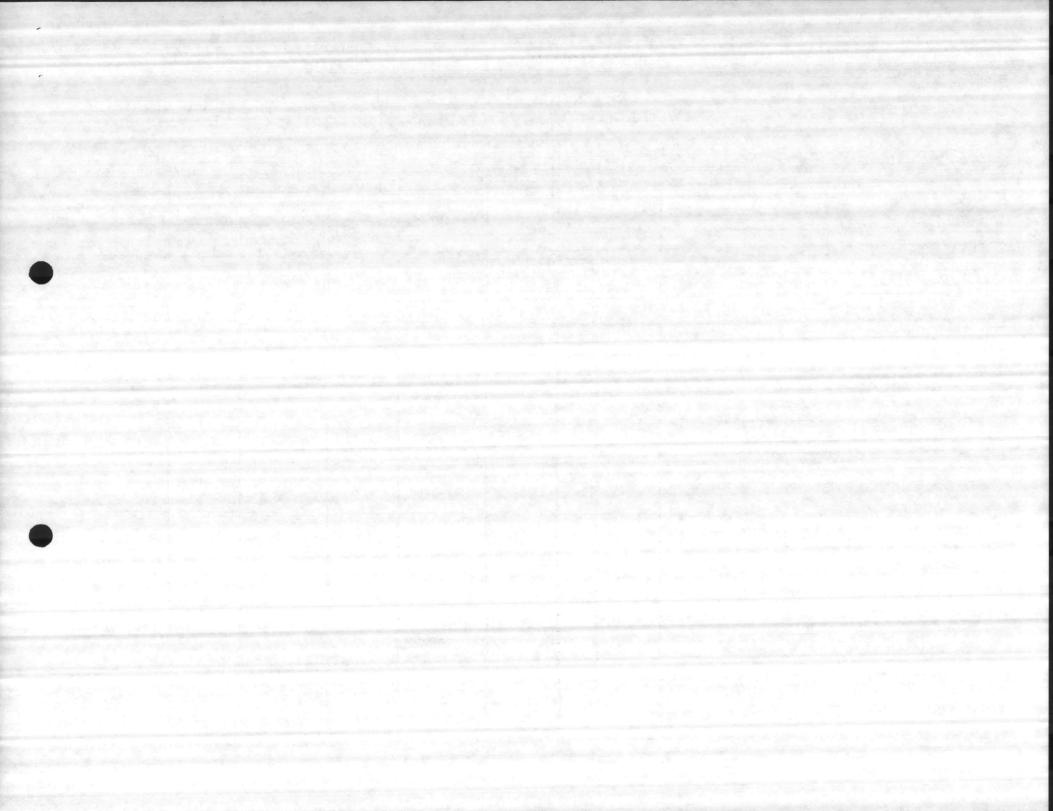


NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIM	ATE		DATE	PREPARED	SHEET	OF
ACTIVITY AND LOCATION	Andrew Constitution for	gerin in the	CONSTRUCTION	CONTRACT NO.	The state of the s		IDENTIFI	CATION NUMBER
PROJECT TITLE BA-106	OJECT TITLE		ESTIMATED BY	Rehig		CATEGORY CODE NUMBER		
RPL. BOILER, FUEL TANK, AND RELAT	ED Equit	MENT	PED PED	30% 100%	FINAL Oth	er (Specify)	JOB ORDI	ER NUMBER
ITEM DESCRIPTION	QUANT	UNIT		RIAL COST TOTAL	LABO UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	RING ESTIMATE
CONT FROM SH-#2 - PLANT WI		sighter.	19 September 19 (p. 19)				CATT COST	TOTAL SECTION AND ADMINISTRATION
REMOTE MONITORING ATBUILDING # 1700,	16					Programme and the second		
PAINT INTERIOR WALLS				300		600		900
REWIRE AND RELIGHT BUILDING	Section 18			12,500		12,500		25000
COMPLETE WITH STATE OF THE ART	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Top (a)				Anna Anna An	
LICHTS, EQUIPMENT AND MATERIAL	' 5				A STATE OF S			
AS PER NATIONAL ELECTRIC CODE	F						The subject of the su	
		SC CONTRACT						
			i to see					
						306. Tale 1	200	
		4. 1					20 - 1 1 1/2 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
SUBTOTAL S/N 0105-LF-010-1335				53,800		106,100		159,900

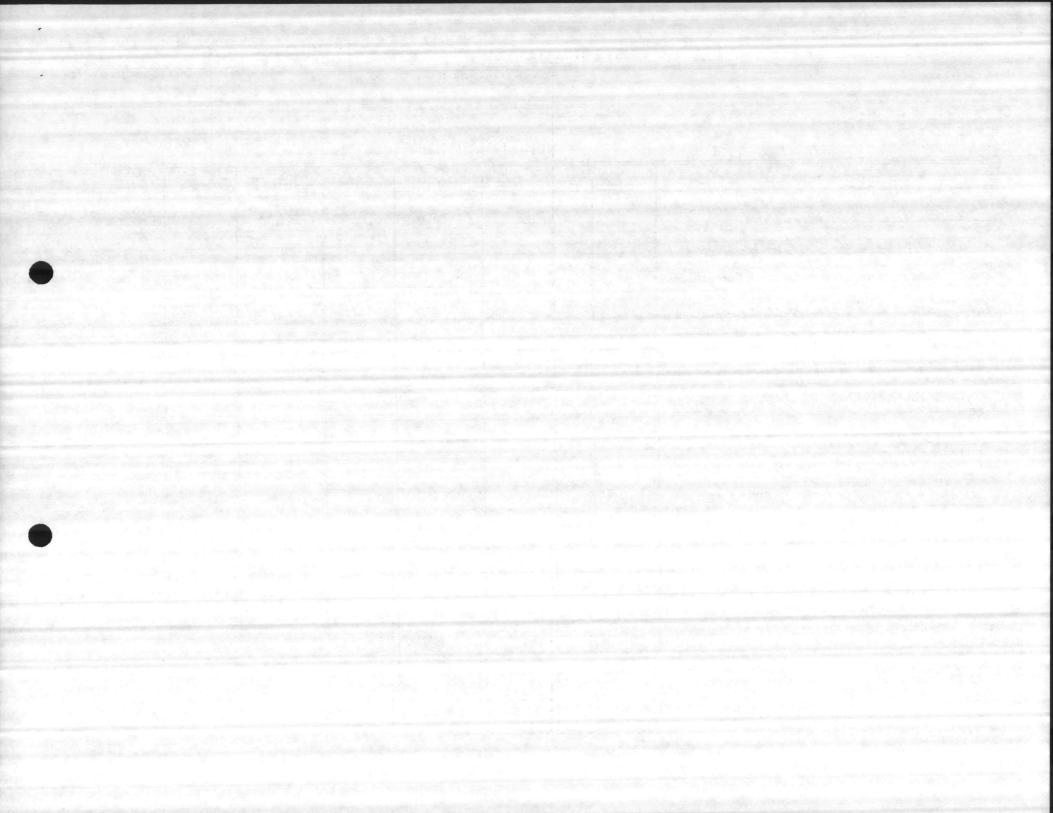
V.W. A.



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ES	STIM	ATE		DATI	PREPARED 81	SHEET	OF -
ACTIVITY AND LOCATION			CONSTRUCTION	CONTRACT NO.			IDENTIFIC	CATION NUMBER
M-230			ESTIMATED BY	R. B. Aug	Mon		CATEGOR	Y CODE NUMBER
MECH. REPARS TO BOILE	RS AND EQUIP	,	STATUS OF DES	IGN 2130% 100%		her (Specify)	JOB ORDI	ER NUMBER
ITEM DESCRIPTION	QUANTIT	Y	MATE UNIT COST	RIAL COST TOTAL	LAE UNIT COST	BOR COST TOTAL	ENGINEER UNIT COST	TOTAL
MECHANICAL				72,000		109,000	or constant	181,000
SUBTOTAL			No. 10 May 1 May 1	72,000		109,000		181,000
QUERHEAD 1590						the second of		27,150
1480R 1870				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				19,620
MATERIAL 590			n on War-lan	20.0	48777 - 1157			3,600
SUBTOTAL			* * * * * * * * * * * * * * * * * * *					231376
PROFIT 1090								13/37
SUBTOTAL					Setables serve		an and	254,507
Bond 190				-				257052
SUBTOTAL				1.00	4 4			
CONTENGENCY 107	0		Prof. Sept. 17	4 30	* 5.74.4			25,705
BASIC CONTRI COST				A STATE OF THE STA			y a	282,757
DESIGN 690		erson.			girajakita. Nga m			16,965
TOT EST COST.								299,722



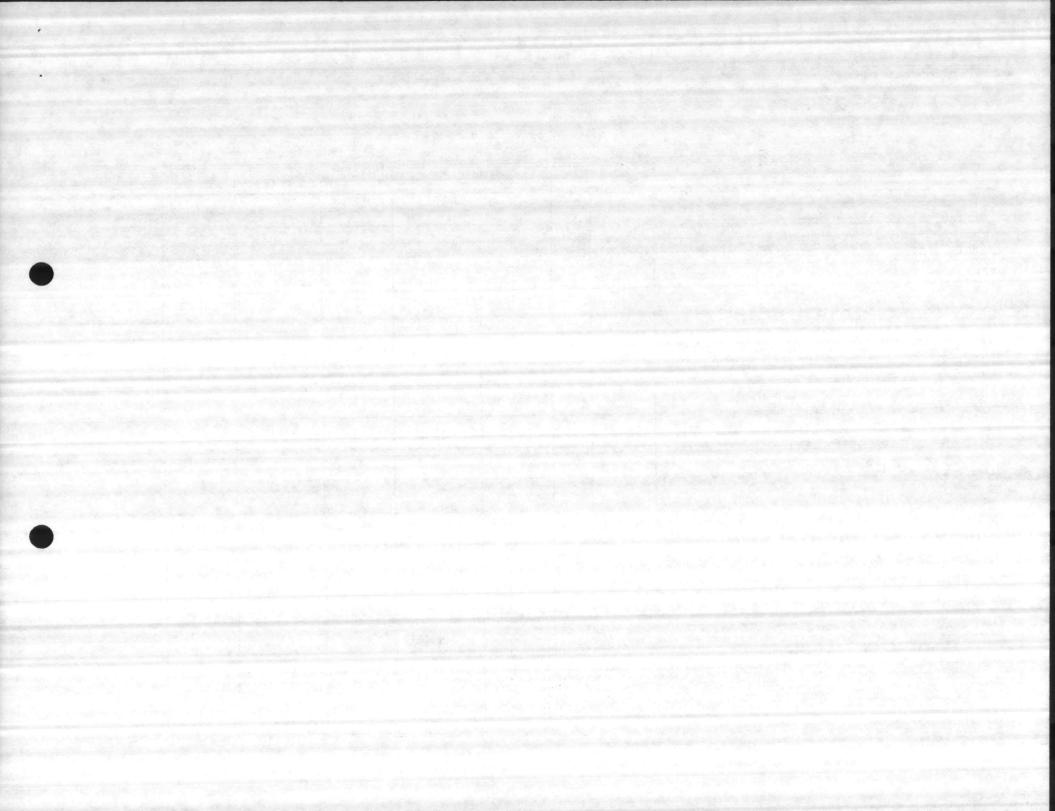
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIM	ATE			PREPARED	SHEET	OF	
ACTIVITY AND LOCATION			CONSTRUCTION	CONTRACT NO.			IDENTIFI	CATION NUMBER	
M-230 PROJECT TITLE		ESTIMATED BY	Robusto	nan			Y CODE NUMBER		
RETUBE BOILERS And MECH. REPAIRS			STATUS OF DES	30% 100%	FINAL Oth	ner (Specify)	JOB ORDI	JOB ORDER NUMBER	
ITEM DESCRIPTION	QUANT	UNIT	MATE UNIT COST	RIAL COST TOTAL	LAB UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	RING ESTIMATE	
RETURE BOILERS #38,39,40 TO				72000	The second secon	109,000	April April 1	181,000	
INCLUDE REPLACING REFACTORY AND	The Property	s suppose	Au Was unter 1 de 1912						
DOOR GASKETS. REPLACE HEADER STA	P	e							
VALUE AND NONRETURN VALUE ON		- 140		tarahan gang sa			ero Austrolius	Organización Complexente de esp	
EACH OF THE THREE BOILERS, REMOVE	=			An all the					
OUTER CASINGS AND INSULATION ON						200 000	No.		
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TEMPERATURE PAINT. INSULATE									
BOILER SHELL WITH CALCIUM								e falle	
SILICATE AND COVER WITH SMOUTH		of the parties		Secret Backbooks					
METAL JACKET, PAINT WITH HEAT		Asset of		er territoria de la constitución d La constitución de la constitución	green and an order		A Walland	A Paul III III III	
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REPLACE EXISTING DEAERATOR			4.00-21						
AND THREE BOILER FEED WATER	teria e arang sa ita	id in other	A CONTRACTOR			en e		orași de Sario de Sario	
CONTS##2									



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST E	STIM	ATE		DATE	8-87	SHEET	OF	
ACTIVITY AND LOCATION			CONSTRUCTION C	ONTRACT NO.	ville Della Araba		IDENTIFIC	ATION NUMBER	
M-230			ESTIMATED BY	0011	1.1		CATEGORY	CODE NUMBER	
PROJECT TITLE			STATUS OF DESIG	N	Afran		JOB ORDE	R NUMBER	
RETUBE BOILERS AND MECH REPAIRS	QUANT	ITV		IAL COST		R COST	T ENGINEER	NEERING ESTIMATE	
ITEM DESCRIPTION	'NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	
CONT. FROM SH # 1 - PUMPS		Lordy Co.				A			
TO INCLUDE PAING, VALUES, GUAGE	.	Sat	a de la companya de l						
AND REGULATORS, THE NEW DEAERATOR									
SHOULD BE LOWERED TO PREVENT									
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HEADER UPON POWER FAILURES,	Except the								
REPLACE CONDENSATE RECEIVER /MAKE					Carlo Control				
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SAUGES, AND VALUES. EXISTING			in other process				1		
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REPLACE BLOWDOWN LINES FROM EACH		1.2.1.							
BOILER TO INCLUDE BLOWDOWN									
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NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	STIMA	ATE	Marie de la Marie	D	ATE PREPARED	SHEET	OF	
ACTIVITY AND LOCATION	and the second second		CONSTRUCTION	CONTRACT NO.			IDENTIFIC	ATION NUMBER	
PROJECT TITLE	D NC		STATUS OF DESI				CATEGORY CODE NUM JOB ORDER NUMBER		
RETUBE BOILERS, AND ME	QUANTI	TY		RIAL COST		Other (Specify)	ENGINEER	ING ESTIMAT	
ITEM DESCRIPTION	` NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST		UNIT COST	TOTAL	
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REMOVE ALL ASBESTOS INSUL	ATION		Bert St.						
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WATER LINES. RE INSULAT		Park and All	res r						
CALCIUM SILICATE WITH	SMOOTH								
METAL CONERING.									
REPLACE EXISTING PLANT!	MONITORING			an e America			Taller of Page 1		
EQUIPMENT WITH UP TO DATE	MINI-	No.			1		T. T.	Parada day	
COMPUTER FOR SAFE OPERA	TION OF	Burray	and the second						
UNMANNED STEAMPLANT WILL	H REMOTE								
MONITORING AT BUILDING	1700.	All HE		al organização de Composições de Arriga Composições de Arriga				removed Standards	
REPLACE STEAM FLOW METERS WITH	HTHETYE		and the	A A					
THAT HAS 24-HOUR CHART RECORD	맛있다 마르얼으로 하는 것이 하면 얼마 그렇게 되고 있다면								
READOUT, 4-20 M.A. SIGNAL AND 18		44.4	to the second		o pilos			e jednosti i til 1900. gada sajda	
DOWN RATIO.									



Project: Repairs to Steam Plants BA-106 and

BA-106:

- 1. Replace No. 64 boiler to include water pumps, valves, oil pumps, oil meters, piping and other auxiliaries to make boiler completely functional for an unmanned steam plant.
- 2. Replace underground oil tank with an aboveground tank complete with retaining berm, off loading pumps, oil water separator, etc.
- 3. Replace condensate receiver/make-up tank to include steam heater coil, gauges, regulators, thermometers, valves, piping, and float controls. Tank to be lined to prevent corrosion.
- 4. Replace existing steam flow meters with the type that has 24-hour chart recorder, digital readout, 4-20 M.A. signal and 10 to 1 turn down ratio.
- 5. Remove asbestos insulation from main stem header and other auxiliary piping and replace with calcium silicate insulation with smooth metal covering.
- 6. Replace existing plant monitoring equipment with up-to-date minicomputer for operation of unmanned steam plant with remote monitoring at Building 1700.
- 7. Paint interior walls.

8- REWIRE AN	d RELICI	HT BUILDING ((BA-106) CO	MPLETE	WITH STAT	Të
OF THE	ART	ELECTRIC	EguIAMENT	AS PER	NATIONAL	ELECTRIC.
COSEI	#					
EST. Co	IST4 2	66,433	0			



M-230:

- 1. Retube Nos. 38, 39, and 40 boilers to include replacing refractory and door gaskets. Replace header stop valve and nonretrun valve on each of the three boilers. Remove outer casing and insulation on each boiler. Remove rust and paint outer boiler shells and piping with rust inhibited high temperature paint. Insulate boiler shell with calcium silicate and cover with smooth metal jacket. Paint with heat resistant paint.
- 2. Replace existing deaerator and three boiler feedwater pumps to include piping, valves, gauges, and regulators. The new deaerator should be lowered to prevent syphoning into the steam header upon power failures.
- 3. Replace condensate receiver/ make-up tank, piping along with transfer pump to include controls regulators, gauges and valves. Existing transfer pump should be replaced with a duplex unit to prevent plant downtime due to the single pump failure.
- 4. Replace blowdown lines from each boiler to include blowdown pit and tie runoff into sanitary sewer.
- 5. Remove all asbestos insulation off of steam, condensaté, and water lines. Reinsulate with calcium silicate with smooth metal covering.
- 6. Replace existing plant monitoring equipment with up-to-date minicomputer for safe operation of unmanned steam plant with remote monitoring at Building 1700.
- 7. Replace existing steam flow meters with the type that has 24-hour chart recorder, digital readout, 4-20 M.A. signal and 10 to 1 down ratio.

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BASE MAINTENANCE DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

DATE: 24 JUN 1987

FROM: BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.

TO: PUBLIC WORKS OFFICER, BUILDING 1005; MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

SUBJ: ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M35CN

ENCL: (A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS

(R)

1. TYPE OF SERVICE REQUESTED:

REMOVE ASBESTOS INSULATION AND MECH REPAIRS BLDGS 1700, AS3502, AS710, AS705

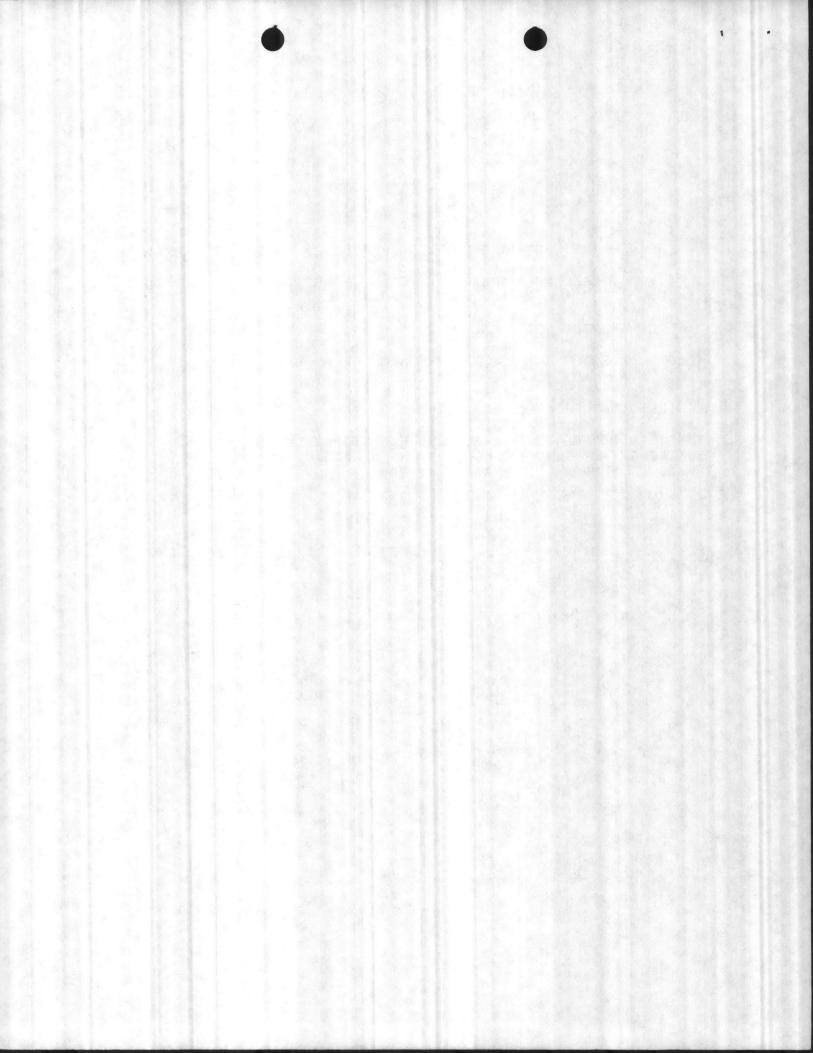
- 2. DESIRED COMPLETION FISCAL YEAR: 88
- J. FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: M1 BUILDING/FACILITY IDENTIFICATION FOLLOWS: AS3502, AS705, AS710, 1700,

ESTIMATE COST IS \$ 327,665.00

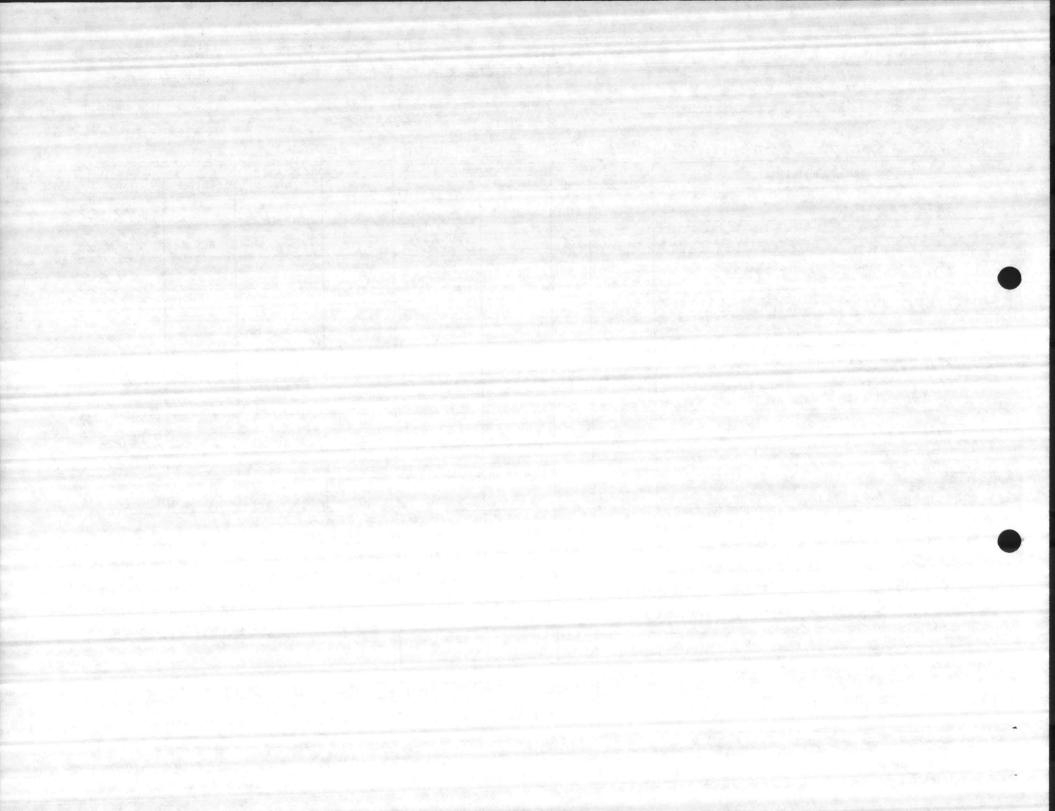
3. POINT OF CONTACT IS GREG SHOEMAKER

, PHONE 5794

T.D. JEWELL BY DIRECTION

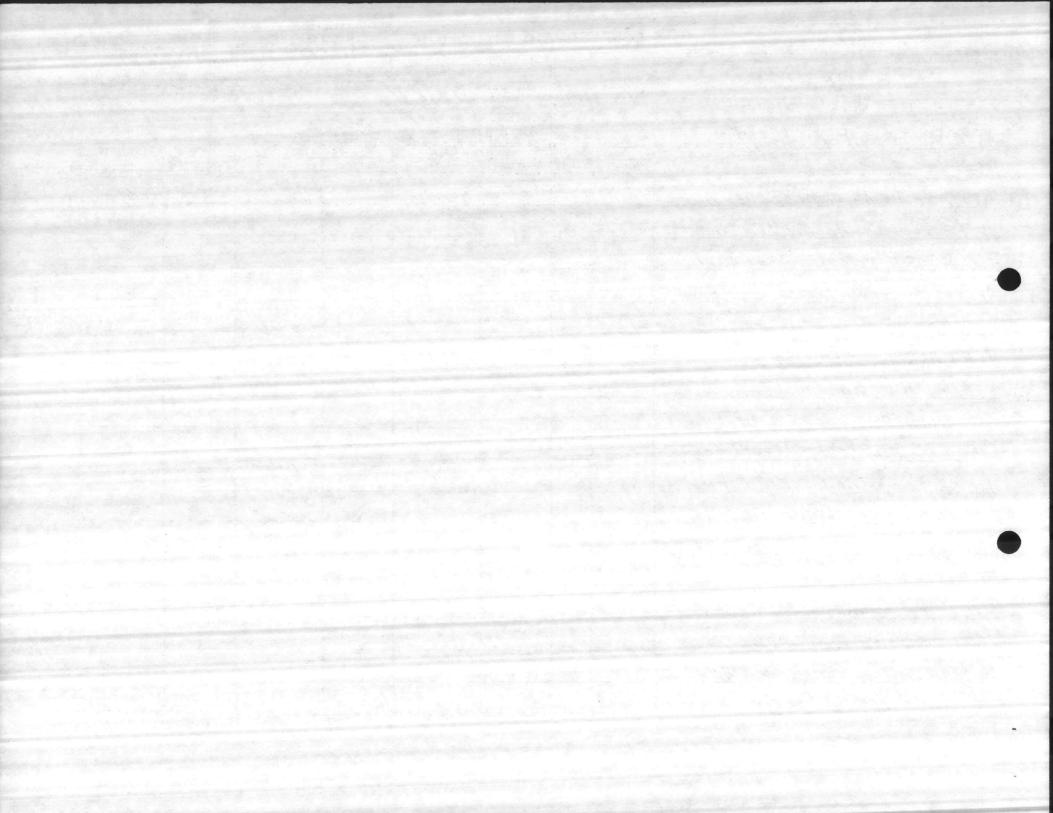


COST	COST ESTIMATE						SHEET OF		
ACTIVITY AND LOCATION 1700			N CONTRACT NO.	IDENTIFICATION NUMBER					
PROJECT TITLE				ESTIMATED BY RB Shullman					
CH, REPAIR	REPAIRS		STATUS OF DESIGN PED 30% 100%		FINAL Other (Specify)		JOB ORDER NUMBER		
QUANT	UNIT	MATI UNIT COST	RIAL COST TOTAL	LAE UNIT COST	BOR COST TOTAL		RING ESTIMATE		
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		Service)					29700		
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				•		en e	25,294		
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				September		* 1 (* 0+ * 1 (* 0+)	2,782		
			se Services (1	4. X 44			281,016		
						• k w	28,102		
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	Acceptance		i e e e e e e e e e e e e e e e e e e e	No. of the last of	1.0		18,547		
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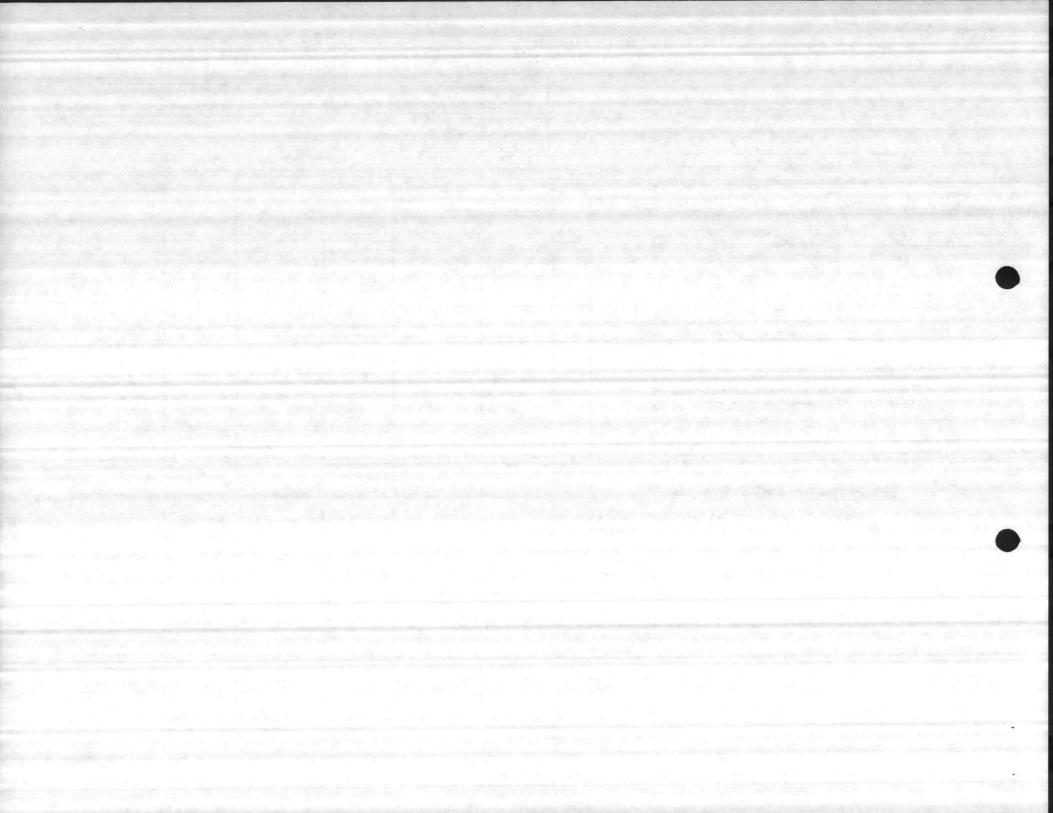


NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMATE						SHEET OF		
ACTIVITY AND LOCATION	CA 74 (1924)	CONSTRUCTION CONTRACT NO.						CATION NUMBER	
1700				RBHUH	CATEGOR	Y CODE NUMBER			
REPAIRS TO STEAM PLANT			STATUS OF DES	IGN 30% 100%		er (Specify)	JOB ORDE	R NUMBER	
ITEM DESCRIPTION	QUANT	ITY	MATE UNIT COST	RIAL COST TOTAL	LABO UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	TOTAL	
REPLACE DETERIORATED STEEL ASH	→ 2.5 (a)			89,000		118,000		198000	
HOPPERS INCLUDING CYCLONE HOPPERS,									
REPLACEMENT INCLUDES REMOVAL OF	er versen								
APPROX IMATELY 4800 SQUARE FEET				and the same		140			
OF ASBESTOS INSULATION AND REPLACEM	501			- 10 PM				8M35CM	
WITH CALCIUM SILICATE,		ar T							
REMOVE ASBESTOS INSULATION FROM		11-12		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		All and the second second			
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LINE ON MAIN STEAM HEADER TO	Specifications								
BOILER COMBUSTION CONTROL AND						Artista (September 1997)	1.		
REPLACE WITH CALCIUM SILICATE.							a selv		
REMOVE ASBESTAS INSULATION FROM	2	Mp. 1023		17 mg					
APPROXIMATELY 100 FEET OF 3"		-	- mail first Clauses	managrapas Talah		<i>3</i> 1			
HIGH PRESSURE STEAM. TRAP LINES		- 1400s		Control of the contro					
FROM MAIN STEAM HEADER TO			de la	2 2				A Section of the sect	
DEAERATOR TANK AND REPLACE WITH					11-182 3.50		v.*		
CALCUM SILICATE, (CONTSH#Z)						Balanda Maka ana ana			

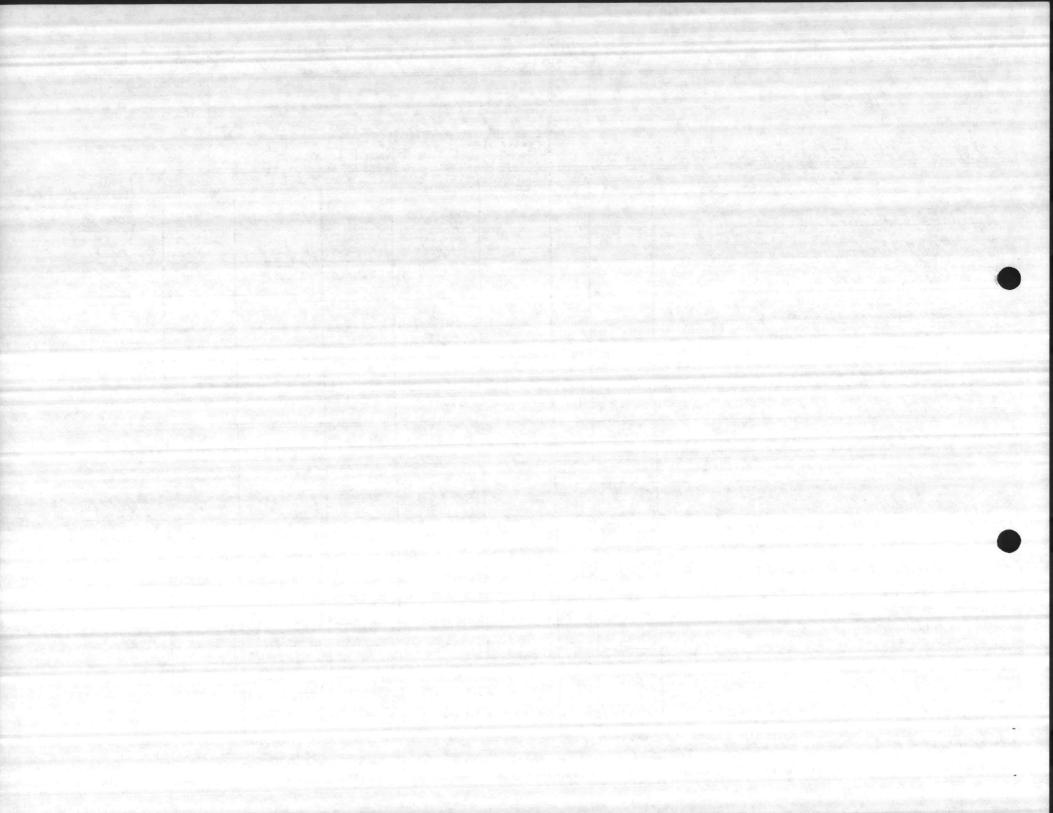
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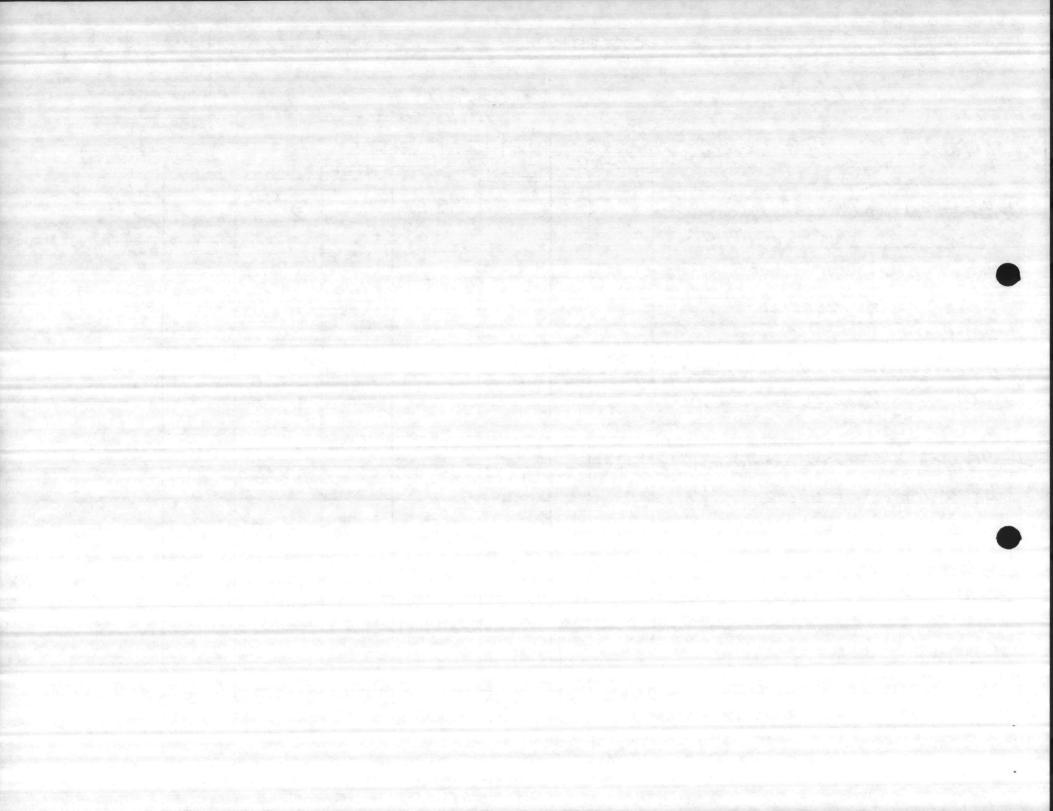
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMATE						SHEET OF	
ACTIVITY AND LOCATION				CONTRACT NO.	IDENTIFICATION NUMBER CATEGORY CODE NUMBER			
1700 PROJECT TITLE			ESTIMATED BY	RBH				
REPAIRS TO STEAM PLANT		STATUS OF DESIGN PED 30% 100% FINAL Other (Specify)				JOB ORDER NUMBER		
ITEM DESCRIPTION	QUANT NUMBER	UNIT	MATE!	TOTAL	UNIT COST	OR COST TOTAL	UNIT COST	NG ESTIMATE TOTAL
O CONT. FROM SH # 1 - REPLACE LOW	d ·	Shirt Herri, e			a saan adag			ente Valencia
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RELATED PIPING, TRAPS, AND PUMPS.	ter is 20 me for		And the second	e e kada-u - carabi (150) Perkada-u - carabi (150)	* * * * * * * * * * * * * * * * * * *		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	etalisticas, is
REPLACE STATIONARY VACUUM					100 May		. 4 104.948 	and a second
CLEANER SYSTEM INCLUDING PIPING							1.423	
And AUXILIARIES.		1 min	New Youngston		to any series the			
E) CEAN ALGAE AND OUTHER CONTAMIN-	to the space of the second	College in				e de la companya de La companya de la co	ger i de de de la Villago de l	n English of
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NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ES	COST ESTIMATE						SHEET OF	
ACTIVITY AND LOCATION	CONSTRUCTION	CONTRACT NO.	IDENTIFICATION NUMBER						
AS-905 ROJECT TITLE REPLACE BOILER INSUL + WATER SOFTNER			ESTIMATED BY	RBS		CATEGORY CODE NUMBER			
			STATUS OF DES	iGN 100%	JOB ORDER NUMBER				
ITEM DESCRIPTION	QUANTIT	UNIT	MATERIAL COST UNIT COST TOTAL		LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMATE UNIT COST TOTAL		
MECHANICAL		\$ 1. 1. N		10,400		15,600		26000	
SUBTOTAL				10,400		15,600		26,000	
QUERHEAD 1570					West Arts			3,900	
LABOR 1890								2808	
MATERAL 590								520	
SUBTOTAL								33,228	
PROFIT 1070				L 2 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	11502.417.0	All Control of the Co		3,323	
S48TOTAL								36551	
BUND 170				* ************************************		1970 (1970) 1170 (1970)	l est tes	366	
SUBTOTAL		1 33						36,916	
CONTENCENCY 1070		April 1						3692	
BASIC CONTRICOST								40,608	
DESIGN 670							Selection of the select	2434	
TOTAL EST COST								43,044	
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NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIM	ATE		6-9-87			SHEET OF	
ACTIVITY AND LOCATION	C			CONTRACT NO.		rek Terretor at er	IDENTIFIC	ATION NUMBER	
AS-705			ESTIMATED BY	En Sheller			CATEGOR	Y CODE NUMBER	
REPAIR BOILER , REPLACE WATERS	OFTENE	25	STATUS OF DES	IGN 8 100%	THE PLANT OF THE PARTY.	es (Specify)	JOB ORDE	R NUMBER	
ITEM DESCRIPTION	QUANT	TITY	MATE UNIT COST	RIAL COST TOTAL	LAB	OR COST TOTAL	ENGINEER UNIT COST	TOTAL	
1) REMOVE DETERIORATED INSULATION,	The Secretary Secretary Secretary		e gyerki eve ekstyy General katoly	10,400	enternetis en	15600		26,000	
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BOILER, SAND AND REMOVE RUST FRE	om .							A No.	
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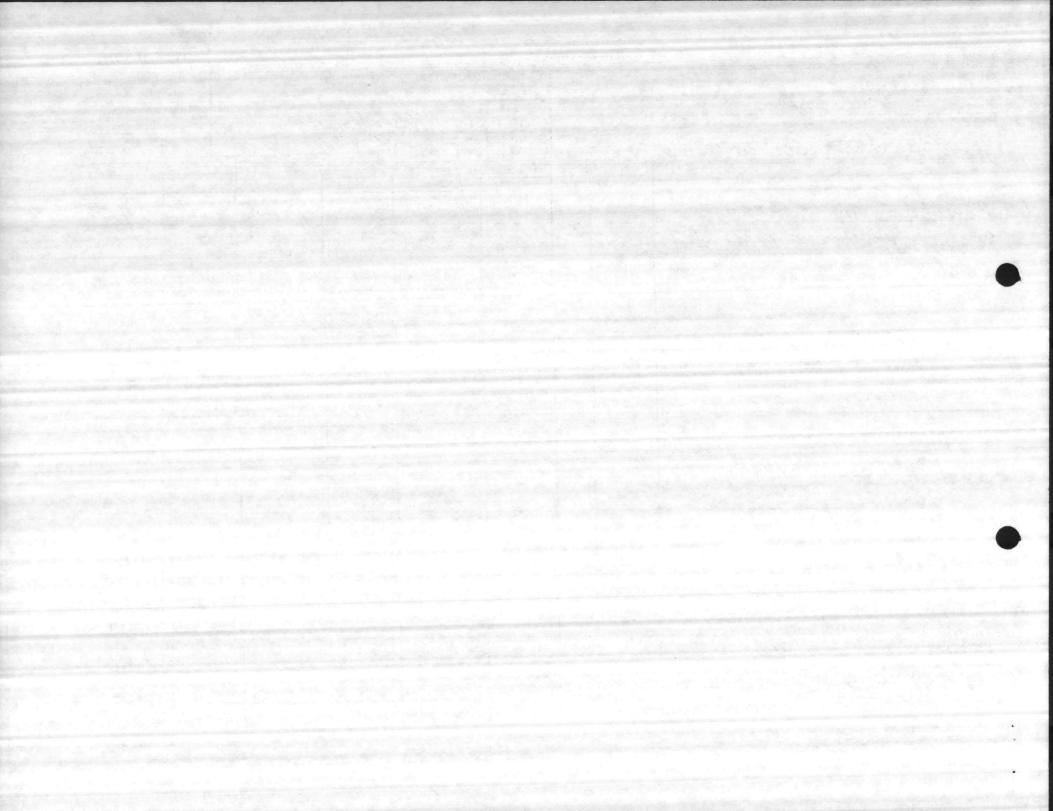


NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIN	SHEET	SHEET POR OF				
ACTIVITY AND LOCATION			CONSTRUCTIO	N CONTRACT NO.	1885.20324	E PREPARED 7	IDENTIFIE	ATION NUMBER
PROJECT TITLE AS -3502		TWING.	ESTIMATED BY		A.M.	AU .		Y CODE NUMBER
REPLACE WATER SOFTENERS			STATUS OF DE		FINAL O	ler (Specify)	JOB ORDER NUMBER	
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MATERIAL 590		V.	Same K		APARTME			50
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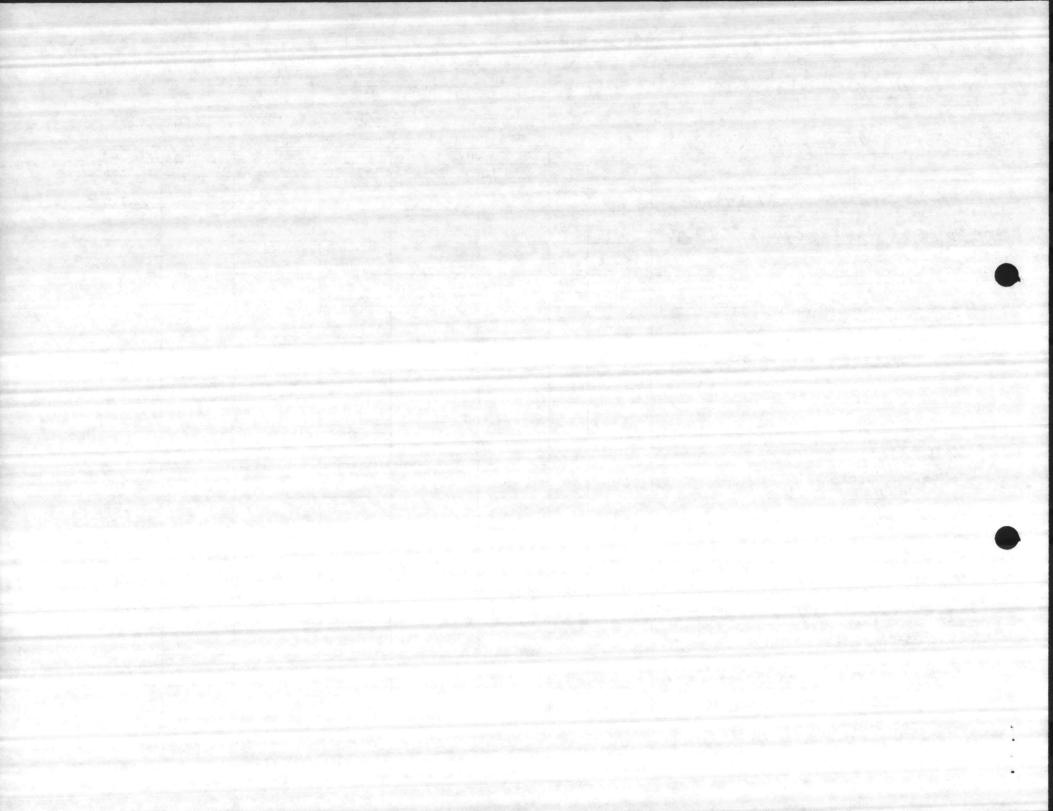
Community Street Mary Street, Spirit Street, Spirit

inger et de La Faria

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NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIM	ATE	e de la companya de l	DATE	6-9-87	SHEET	OF
ACTIVITY AND LOCATION			CONSTRUCTION	CONTRACT NO.			IDENTIFIC	CATION NUMBER
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REPLACE WATER SOFTENERS			STATUS OF DES	JOB ORDE	R NUMBER			
ITEM DESCRIPTION	QUAN			RIAL COST	LABOR COST		ENGINEER UNIT COST	ING ESTIMATE
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DESIGN 620								225
TOTAL FST COST								3,967



Project: Repairs to Steam Plants 1700, AS-3502, AS-710, and AS-705

Description of Work: Work shall include but not be limited to the following items to provide a complete and usable facility:

1700:

- 1. Replace deteriorated steel ash hoppers including cyclone hoppers. Replacement includes removal of approximately 4800 square feet of asbestos insulation and replacement with calcium silicate.
- 2. Remove asbestos insulation from approximately 200 feet of signal line on main steam header to boiler combustion control and replace with calcium silicate.
- 3. Remove asbestos insulation from approximately 100 feet of 3" high pressure steam trap lines from main steam header to deaerator tank and replace with calcium silicate.
- 4. Replace low pressure drip tank including related piping, traps, and pumps.
- 5. Replace stationary vacuum cleaner system including piping and auxiliaries.
- 6. Clean algae and other contaminents out of 420,000 gallon No. 6 oil storage tank and repair tank as necessary after complete visual and ultrasonic testing is performed.

AS-705:

- 1. Remove deteriorated insulation, possibly asbestos, from No. 11 boiler, sand and remove rust from boiler shell, apply heat resistant rust inhibitor paint, and reinsulate with calcium silicate protected with smooth metal jacket.
- 2. Replace water softeners, regulators, brine tank and piping.

Buildings AS-710 and AS-3502:

1. Replace water softeners, regulators, brine tanks and piping.

Estimated Cost: \$370,000



BASE MAINTENANCE DIVISION MARINE CORPS BASE

CAMP LEJEUNE, NORTH CAROLINA 28542

24 JUN 1987

DATE:

BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.

PUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP TO:

LEJEUNE, N.C.

ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M33CN SUBJ:

ENCL: (A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS

(B)

....

TYPE OF SERVICE REQUESTED:

UTILITIES PROJECT - STRUCT, MECH, AND ELECT

BLDGS 20,22,32,670,BA138,RR15,RR85,BB190 & STT39A

DESIRED COMPLETION FISCAL YEAR: 88 2.

3. FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: M1

BUILDING/FACILITY IDENTIFICATION FOLLOWS:

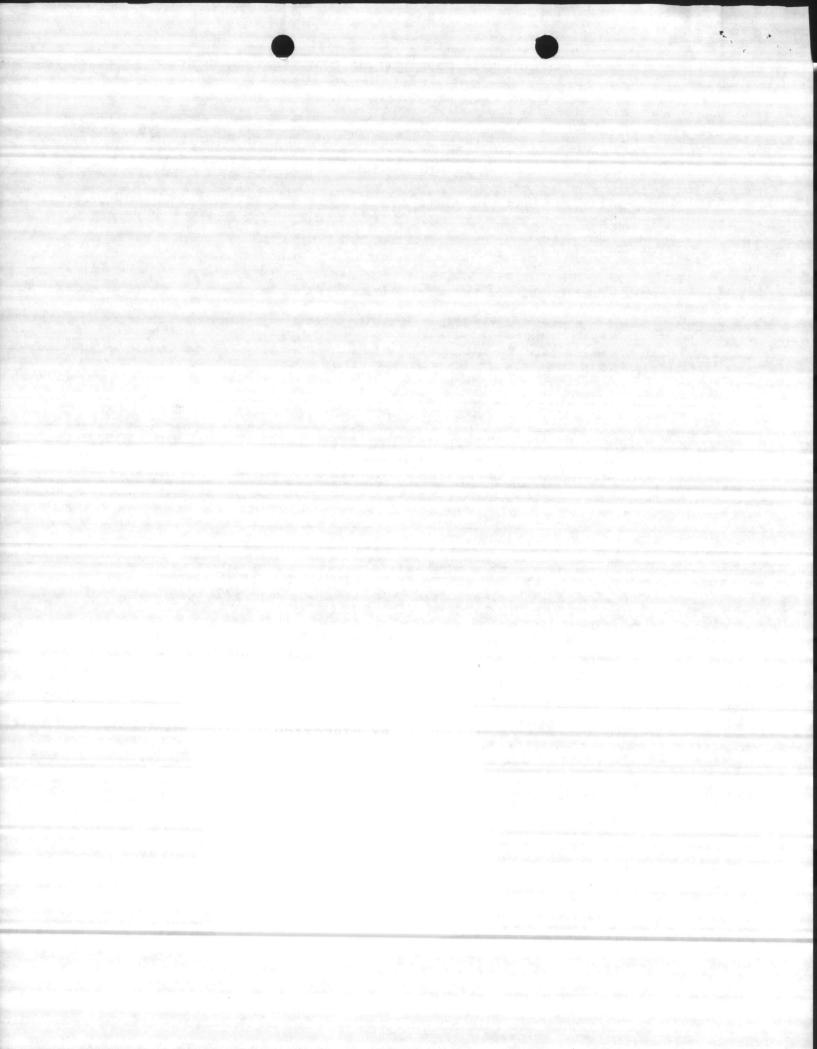
RR15, BA138, BB190, RR85, STT39A, 20, 22,

32. 670.

ESTIMATE COST IS \$ 344,715.00

3. POINT OF CONTACT IS GREG SHOEMAKER , PHONE 5794

32 Boiter/Dreston 21 L.s. Down Hill 765 Shop, Delete Med. 10:30



BASE MAINTENANCE DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

24 JUN 1987 DATE:

BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.

TO: PUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

SUBJ: ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M33CN

ENCL: (A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS

(B)

TYPE OF SERVICE REQUESTED:

UTILITIES PROJECT - STRUCT, MECH, AND ELECT

BLDGS 20,22,32,670,BA138,RR15,RR85,BB190 & STT39A

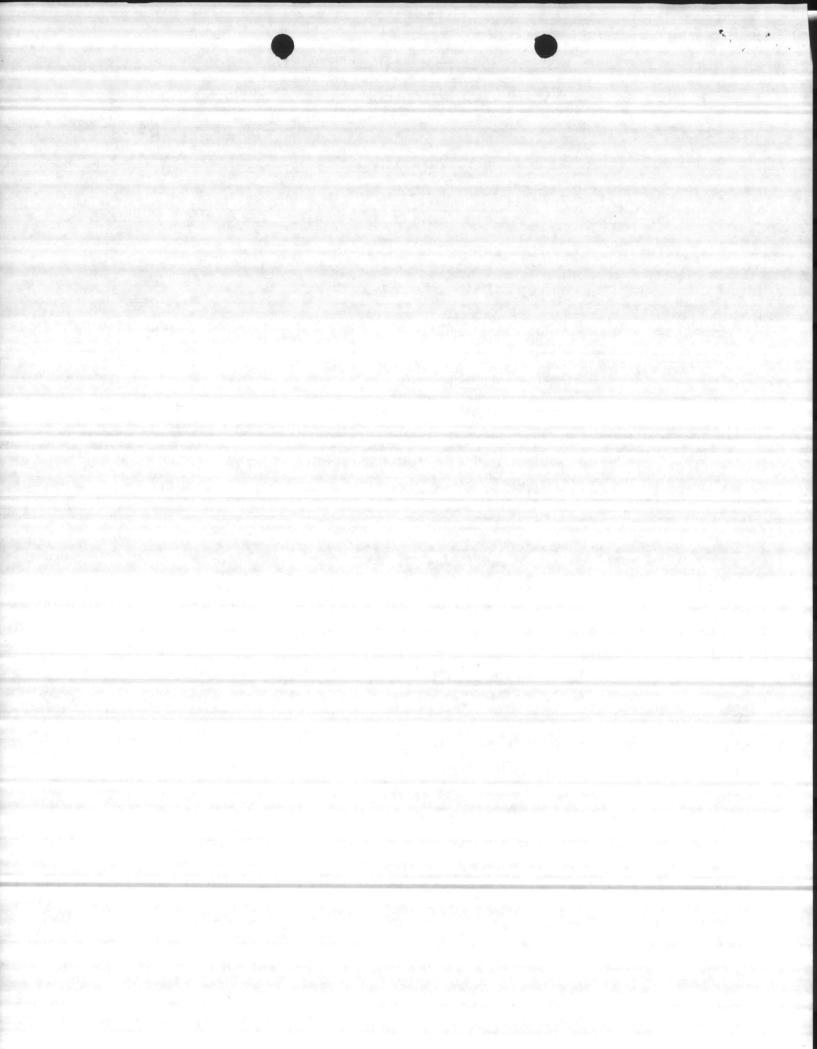
- DESIRED COMPLETION FISCAL YEAR: 88
- FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: M1 BUILDING/FACILITY IDENTIFICATION FOLLOWS: BA138, BB190, RR15, RR85, STT39A, 20, 22, 32, 670.

ESTIMATE COST IS \$ 344,715.00

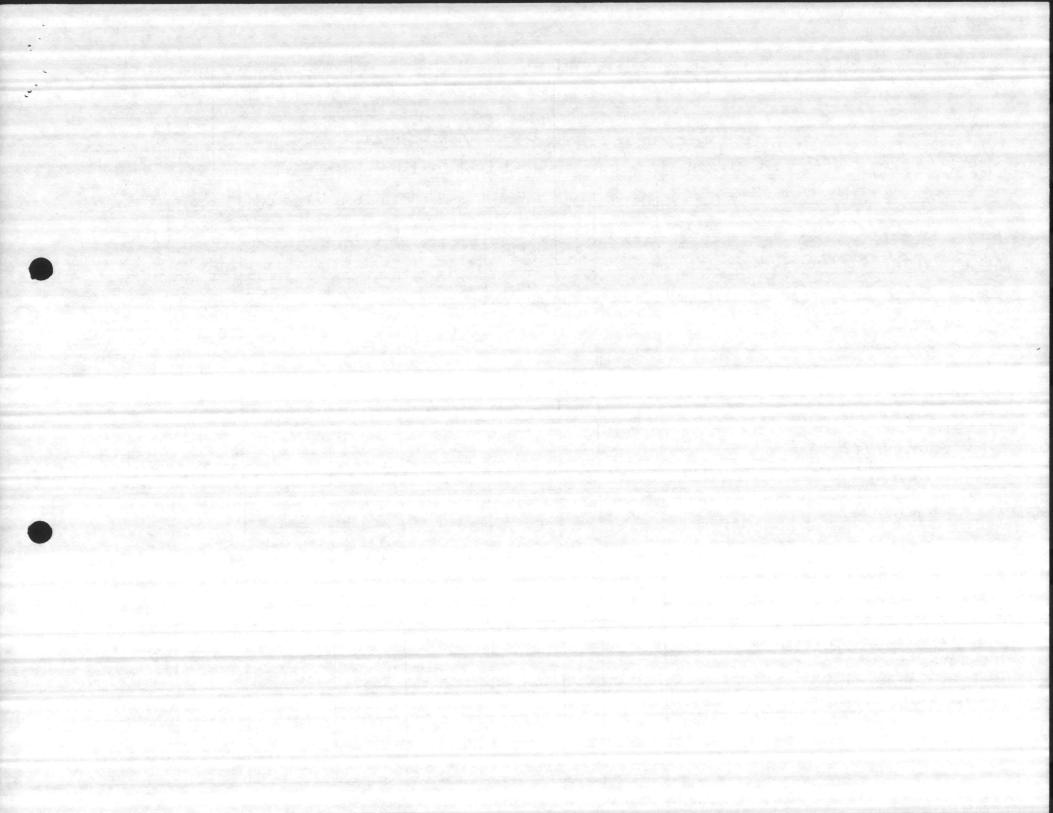
POINT OF CONTACT IS GREG SHOEMAKER

PHONE 5794

T.D. JEWELL BY DIRECTION



AVFAC 11013/7 (1-78) upersedes NAVDOCKS 2417 and 2417A		COST	ESTIM	ATE		DAT	PREPAREDY -Z-87	SHEET	OF
ACTIVITY AND LOCATION				CONSTRUCTIO	N CONTRACT NO.			IDENTIF	CATION NUMBER
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NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST E	STIM	TIMATE DATE PREPARED?			SHEET	OF	
ACTIVITY AND LOCATION				CONSTRUCTION	CONTRACT NO.	A great and the second	o bi para i da como de la como de	IDENTIFIC	CATION NUMBER
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PROJECT TITLE			41			foren	April 1984 September 1984		
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				Carrier Territoria					



Supersedes NAVDOCKS 2417 and 2417A		COST ESTIMATE DATE PREPARED 5-26-87					SHEET	OF	
ACTIVITY AND LOCATION 22			entre Te	CONSTRUCTION	CONTRACT NO.			IDENTIF	ICATION NUMBER
PROJECT TITLE			illiseest ja s	ESTIMATED BY	RBH	Moran		CATEGO	RY CODE NUMBER
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PROFIT	1090	2000 (40 102)		e. eresiden	Total Programme and				3578
SUBTOTAL			27 5244		en detail steer	Apple of the			39,362
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SUBTOTAL									39,756
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NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST E	ESTIMATE				SHEET	SHEET OF		
ACTIVITY AND LOCATION		en de la secono de la		CONSTRUCTION	CONTRACT NO.			IDENTIFIC	IDENTIFICATION NUMBER	
32		ligation of the stage		ESTIMATED BY	Onl		CATEGORY CODE NUMBER			
PROJECT TITLE				STATUS OF DES	10/254	yma	υ ·	JOB ORDER NUMBER		
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ITEM DESC	CRIPTION	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL	
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AND FRAMES WI	TH STATE OF			18 - 18 (11 A vive - 48,394-4)				es de la Trib	\$1.00 mg	
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		100		V-01 36					- 100 AM	
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AND EQUIPMENT	ComPLETE WITH				100 m	A spiral				
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SUSTOTAL



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COSTE	STIM	IMATE 5-26-87				SHEET	SHEET OF	
ACTIVITY AND LOCATION		The second		CONSTRUCTION	CONTRACT NO.			IDENTIFIC	CATION NUMBER	
PROJECT TITLE				ESTIMATED BY	RBHu	Spran		CATEGOR	Y CODE NUMBER	
	ECH REPA	IRS		STATUS OF DESI	GN	- A	ner (Specify)	JOB ORDE	R NUMBER	
ITEM DESCRIPTION		QUANTI	TY	MATE!	TOTAL	LAB UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	TOTAL	
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MECH.	6-10-10-10-10-10-10-10-10-10-10-10-10-10-			1997 - Maria	3,200		4,800		8,000	
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OUERHEAD 15	570	ericano del	uppleat coasing				Bourse Control of the		6300	
LABOR 18	90			18 28 1 Q					4,536	
MATERIAL 5	90		es Class					e e dan	840	
SUBTATAL			Territor A	lad og skalender Med skalender					53,676	
PROVIT 10	90								5,368	
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TOT EST COST									69533	



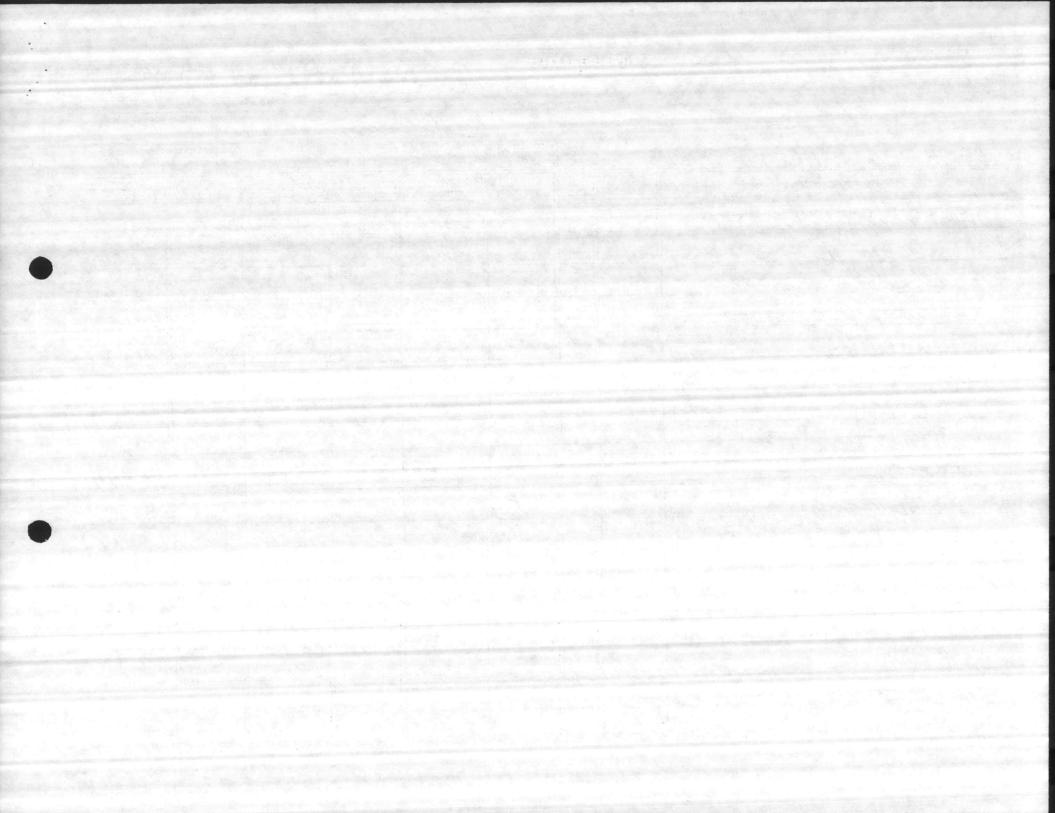
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST	STIN	IATE		DATE	PREPARED 7	SHEET	OF
ACTIVITY AND LOCATION 670		CONSTRUCTION CONTRACT NO.			0011 11			IDENTIFICATION NUMBER CATEGORY CODE NUMBER	
PROJECT TITLE		STATUS		STATUS OF DESI	Ky Huffs	man		IOR OPPO	D MIMOED
MECH, AND ELECTR	CIC REPAIRS			PED 30% 100%		FINAL Other (Specify)		JOB ORDER NUMBER	
ITEM DESCR	IPTION	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	TOTAL
REPLACE FIVE SIM	MPLEX FLOW		See Ly		16,000		24,000	1	48000
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WITH EXISTING REG	CEIVERS, BE		7			7.35	tradition of the	e englished	
PROPERLY LABELED,	HAVE 3-15PS1		guerren		allowed to the contract of the same	e cama de la com		The Williams	Magazia da Aria da La Magazia
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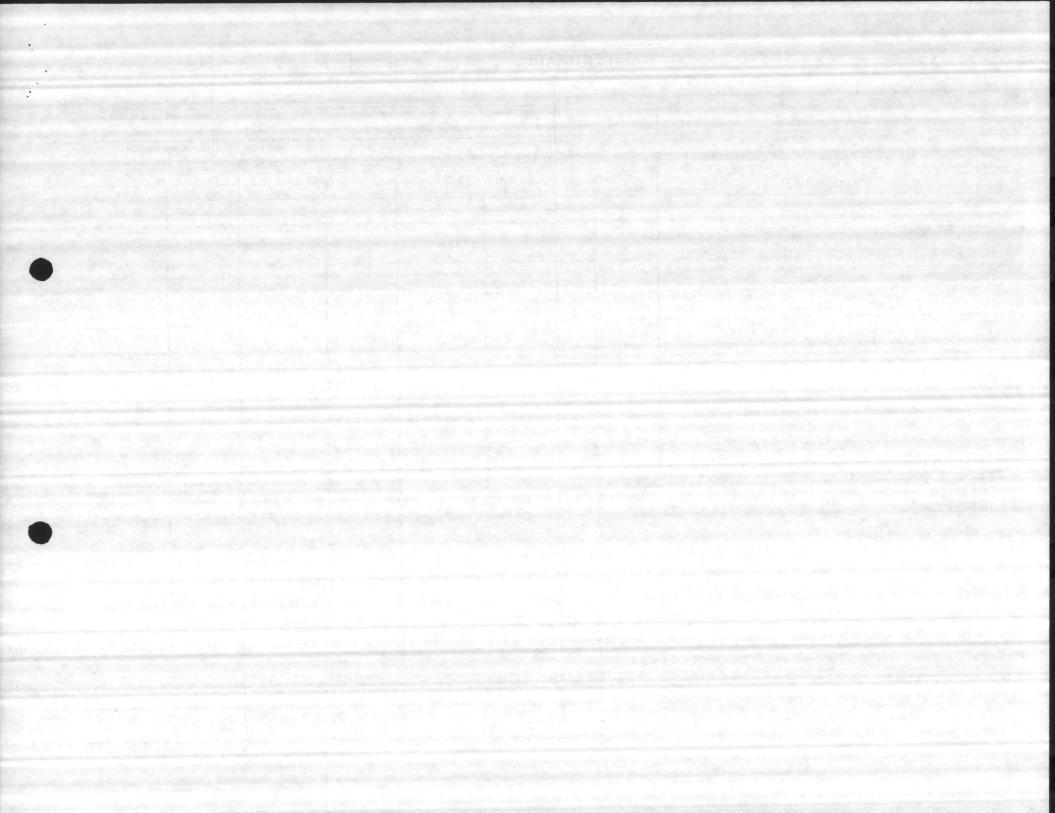
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST	STIN	IATE		DAT	PREPARED	SHEET	OF
ACTIVITY AND LOCATION 670				CONSTRUCTION ESTIMATED BY	CONTRACT NO.			400	CATION NUMBER
PROJECT TITLE		3 34		ESTIMATED BY	RBA	Maria		CATEGOR	Y CODE NUMBER
MECH. And ELECT	RIC REPAIRS			STATUS OF DES	GN 30% 100%	FINAL O	her (Specify)	JOB ORDE	R NUMBER
ITEM DESCR		QUANT	UNIT	MATE UNIT COST	RIAL COST TOTAL	LAE UNIT COST	BOR COST TOTAL	ENGINEER UNIT COST	ING/ESTIMATE
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et en						ente comentativata	per transfer in the segment of the	e de deservación de la companya de l	



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMATE DATE PREPARED DATE PREPARED DATE PREPARED				SHEET	OF		
ACTIVITY AND LOCATION		ar Par	CONSTRUCTION	CONTRACT NO.		State of the state	IDENTIF	ICATION NUMBER
PROJECT TITLE			ESTIMATED BY	RBHUS		CATEGORY CODE NUMBER		
MECH AND ELECT REPA	IRS		STATUS OF DES	30% 100%	. —	her (Specify)	JOB ORD	ER NUMBER
ITEM DESCRIPTION	QUANT	ITY	MATE	RIAL COST TOTAL	LAI UNIT COST	BOR COST TOTAL	ENGINEE!	RING ESTIMATE
MECH + ELECT REPAIRS		er in our		16,000	100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	24,000	UNIT COST	40,000
OUERHEAD 1590		5 A.						6,000
LABOR 1890								4,320
MATERIAL 5 90		Area of			and Market Services	of the second second		800
SUBTOTAL			Bushan to		and the second			51120
PROFIT 1090		er even						5112
SUBTOTAL		in dia	en doug	erining a substitution of the	e ega sastava eks Afrika er graps		The said of the	56232
Bond 120	1000	100 A 2						562
SUBTOTAL								56,794
CONTENCENCY 1070	19 7 20 0				The Albertail	e justificación de la companya de l La companya de la co		5,679
TOT EST CONTR COST DESIGN 690				a dan saya ta Labina da sa				62474
DESIGN 690	 Section of the section of the section			10 m 10 m 10 m	adkir aprovinst Sagar States			3748
TOT EST COST			tan er literatur 1984 - Santa					62474 3748 64,222
		Example 1				and Make Service and		Augustus Sangara
S/M 010C-1E-010 177E					Talah ang bang da 1959 Kanggahan ang bang da 1959		Harris of the Paris of	

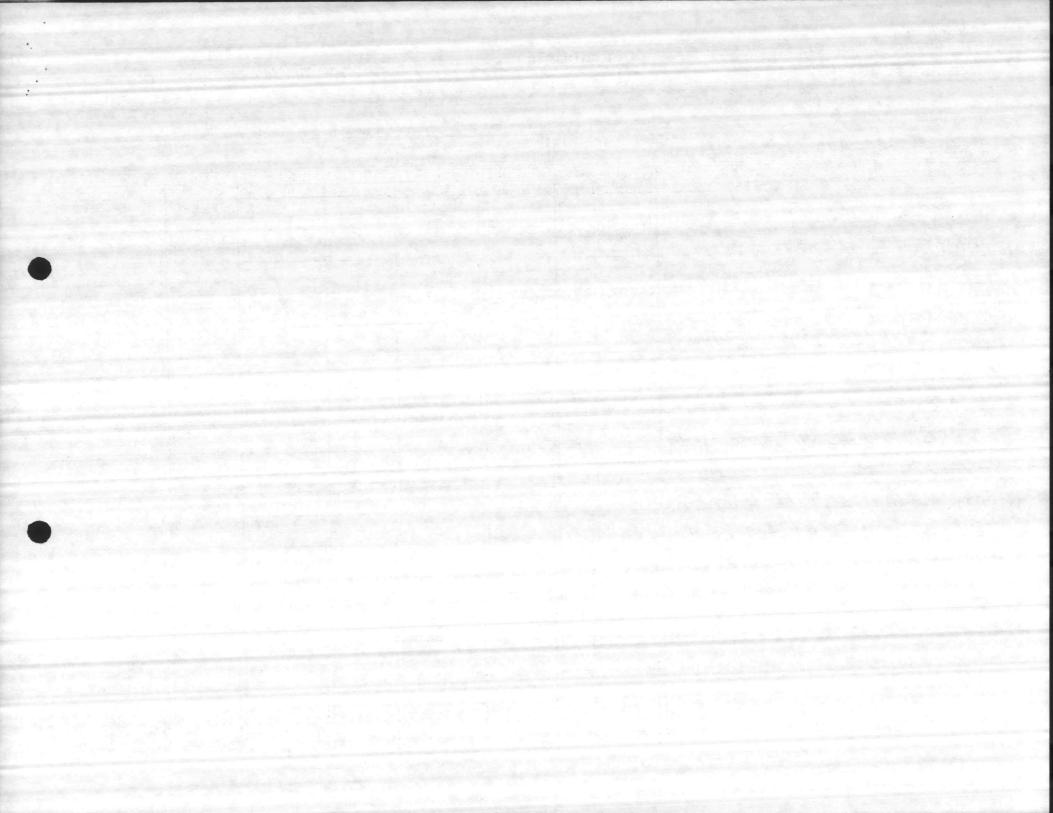


NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST	ESTIM	IATE	100 mg	DAZ	-2-87	SHEET	OF
ACTIVITY AND LOCATION				CONSTRUCTION	I CONTRACT NO.		a-01	IDENTIF	ICATION NUMBER
PROJECT TITLE	-138	Acceptance		ESTIMATED BY	2011	11		CATEGORY CODE NUMBE	
	Car Dean or			STATUS OF DES	IGN _	man		JOB ORDER NUMBER	
STRUCT, ELECT, M		QUANT	ITV	PED 30% 100% MATERIAL COST			BOR COST		
ITEM DES	CRIPTION	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
REPLACE WINDOWS,	FRAMES, AND	- 1	1	and the second	4900		7300		12,200
SCREENS WITH NE	Ew Alum INUM						The facilities are	n em S	Company of the second
TYPE. REPLACE E	XERIOR DOORS								
AND FRAMES WIT	H STATE OF THE	et service is Mortine is	n en gran	TO ALCOHOLIST					
ART STEEL TYPE	WITH GLASS			yese voer∉ og v					All governments To see your
INSERTS.						Carplana (Carplana)	den gerkoples	Marie Committee	
REWIRE AND RELIE	SHT INTERIOR				8,000		12,000		20,000
AND EXTEROIR COM	PLETE WITH			ALCONOMICS OF STREET	,	e Vagar			
MOISTURE PROOF	PANELS, CONDUT			er group Language of Long Pers	10 美元 - 中間かり 20 美元 - 美元		and the second	A S	
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ELECTRIC Code.			e day				No. and Associated the Control of th	All token	10 de 10 10 de 10 10 de 10 10 10 10 10 10 10 10 10 10 10 10 10
	er en skriver fra de skriver en			Adv. 100 Adv. 100					
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RAW WATER, DEL	IVERED WATER,					Sept.			Canada Service 1942
RESERVOIR LEVE	L, AND ELEVATED						a die er er begen an er	4 - 12 2 3 3 3 6	
TANK LEVEL. NE		- 17 Aug			er en skelveren	THE LOT			
Cont. 8		34 mm	ang Ling		de Arriver de la constant	A. A.	Springer - Springer		



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	alle to constitue to the	COST ESTIMATE						SHEET OF	
BA-138			CONSTRUCTION CONTRACT NO.					IDENTIFICATION NUMBER	
PROJECT TITLE	Particular and Security Activ			ESTIMATED BY	Rober	Aman		CATEGO	RY CODE NUMBER
STRUCT, ELECT, ME	ECH REPAIRS			PED PED	30% 100%	FINAL Oth	er (Specify)	JOB ORD	ER NUMBER
ITEM DESCRIPTION		QUANT	TUNIT	MATERIAL COST UNIT COST TOTAL		LABOR COST		ENGINEERING ESTIMATE	
CONT. FROM SH#1-	A second of the			CHIT COS	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
CONTAIN NO HAZARD	045	and the second	A. A.			19 A STEP 18			
MATERIALS, HAVE A	4-20 MA		A Section						
SIGNAL TO RECIEVER	, AND			Parity of the second	et granden vilade e 1980 mario e v				The Mariana
HAUE 24-HOUR CHÁ	RT RECORDER	S,	F 352			ta grander		150	
DIFF ERENTIAL PRES	SSURE TRANS-								murkal koderni. Digita din sing
MITTERS SHALL BE U	SED FOR			430454				300	Andrew Street
FLOW AND LEVEL ME	ASUREMENT,	a Punga 1 sa Majada 1 sa	1969-19	Property and the second					eng se kanalan da
HEELEU ATED TANK LEVEL				tur ngure Turing				A STATE OF STATE OF	
SHALL USE RAIDID TELL	EMETRY FROM	er opgi kanar Kangara			antalesta appli				September 1997
THE TANK TO WATER PL		Page Saveye				an a			
NATER AND DELIVERED	WATER METER	•				archina de la companya de la company			All parties of the
HALL HAVE TOTALIZE	D FLOW IN				e e	Company of the Compan	a de Santa (Alba)		
OO GALLOW PER MINUTE,	ALL METERS	e sale							
HALL BE HOUSED IN CORR OF	SION AND WATER				the state of the state of the state of	Y Y	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		
PROOF CABINETS.				Name of the second					
S4BTOTA	L		ragideriado Se son	nis yan a	29,900		31,300	- Commence	52,200

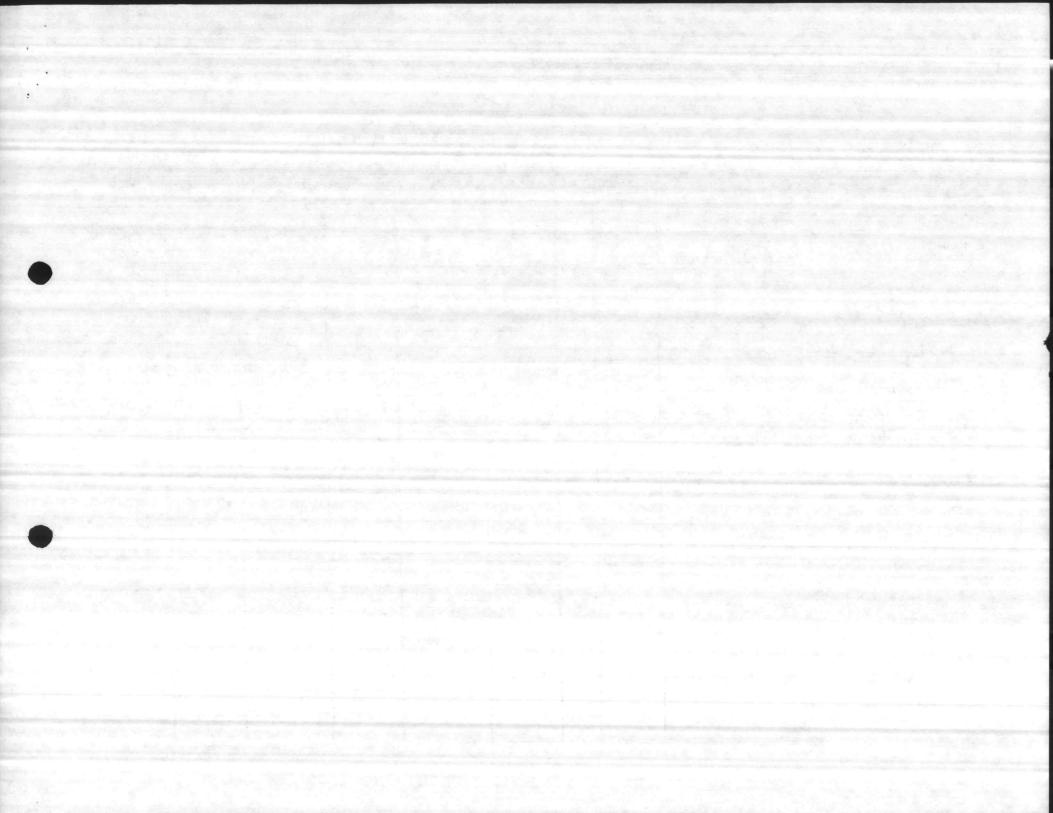
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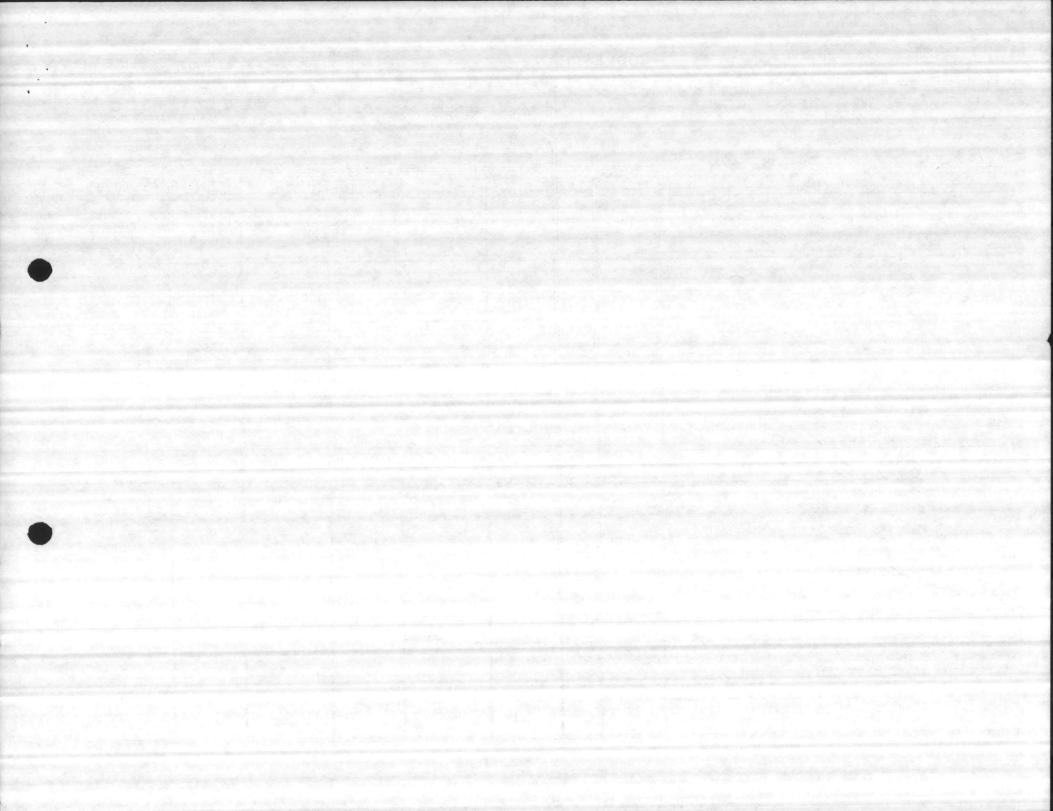
NAVFAC 11013/7 (1-76) Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMATE			DAT	DATE PREPARED 5-22-87		SHEET OF	
PROJECT TITLE BA-138			CONSTRUCTIO	N CONTRACT NO.	IDENTIFICATION NUMBER			
			ESTIMATED BY Rolling			nan		CATEGORY CODE NUMBER
REPAIRS TO STRUCT, ELECT,	MECH,	PLBC	PED	30% 100%	FINAL O	her (Specify)	JOB ORD	ER NUMBER
ITEM DESCRIPTION	QUANT NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	OR COST TOTAL	ENGINEE UNIT COST	RING ESTIMATE
STRUCTRUAL				4900	e territorios	7300	+91	12,200
ELECTRICAL		Parker	1 M	8,000		12,000		20,000
MECH - PLBC.		THE STATE OF		8,000		12,000		20,000
SUB TOTAL				20,900		31,300		52200
OVERHEAD 1590								7,830
LABOR 1890								5,634
MATERIAL 590					Andreas (Control of the Control of t		•	1045
SUBTOTAL					William State of the State of t		a to a segment	66,709
PROFIT 1090								6.671
SUBTOTAL				ale the plant of the	e de la composition della comp			73380
Bond 190								734
SUBTOTAL	er e					i		73.114
CONTINGENCY -1096	Period President							7.411
BASIC CONTR. COST		6.3						81525
DESIGN 690							± nt.	4,892
TOTAL EST COST								86,417
		. M						



NAVFAC %1013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMATE					DATE PREPARED		OF	
RR-15 PROJECT TITLE REPLACE EXT WINDOWS AND DOORS			CONSTRUCTION CONTRACT NO. ESTIMATED BY RBMM RBM RBM RBM RBM RBM RBM					IDENTIFICATION NUMBER CATEGORY CODE NUMBER	
			ITEM DESCRIPTION	, QUANTIT NUMBER	V	MATE UNIT COST	RIAL COST TOTAL	UNIT COST	BOR COST TOTAL
REPLACE WINDOWS, FRAMES, AND		English	a propried a propried a second	6000	and the second of	10.000		16,000	
SCREENS WITH NEW ALUMINUM				2	A CONTRACTOR OF THE SECOND	A control of	10 mm 1 m	19000	
TYPE. REPLACE EXTERIOR DOORS								APP IN THE	
AND FRAMES WITH STATE OF THE		i salah s Ta	and the second states	an en en en de de la companya de la La companya de la co	AND SOURCE OF	6		e de grande de la companya de la co	
ART STEEL TYPE WITHGLASS INSERTS.	elenno de la companya		er estad ter		the water of				
REPLACE REMOVABLE METAL	Section 2			er jer i ji ji ji Na sahar			in nambari asa mengbar		
PANELS BEHIND BOILERS # 46								a Tarini	
AND 47 WITH ROLL UP DOORS.			1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -						
							res Pain	The Laboratory	
				years (t	19.00 TO 19.00				
	200					resource in the second		1984	
		no 22					17961	1 47 F - 1 - 1	
		1.29	The state of the s		San Arrange			An administration of	
	La somb sold the		and an experience	to the state of the state of			Y. N.	AND THE REST	
	32.38								
		tok ori							
/N 0105-LF-010-1335						☆ U.S. Government Prin	tine Office that	705.012.77045.0	



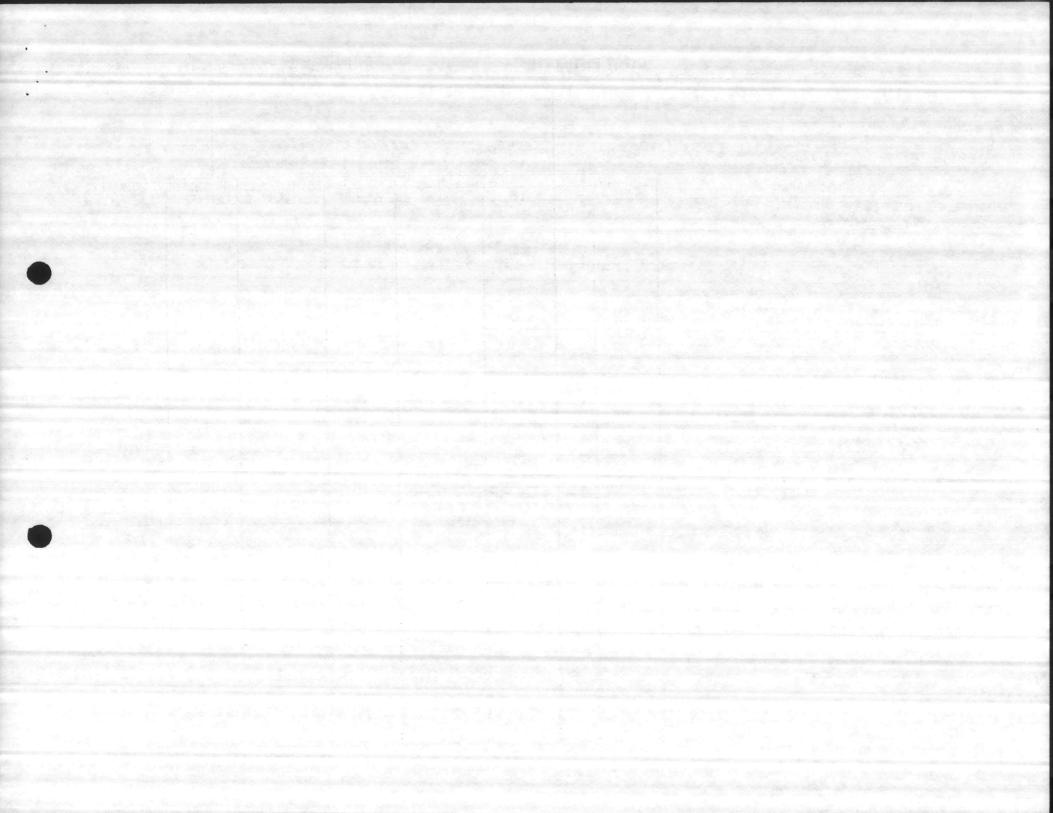
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST ESTIMATE				DATE PREPARED 0-Z-87		SHEET	SHEET OF	
ACTIVITY AND LOCATION		e de la companya de		CONSTRUCTION	CONTRACT NO.	IDENTIF	ICATION NUMBER			
PROJECT TITLE PROJECT TITLE	15			ESTIMATED BY	RBH	ffman	en e	CATEGO	RY CODE NUMBER	
REPLACE WINDOWS.	AND DOORS			STATUS OF DES	30% 100%		ner (Specify)	JOB ORD	ER NUMBER	
ITEM DESCR	Part of the state	QUANT NUMBER	UNIT	MATE UNIT COST	RIAL COST TOTAL	LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMATE UNIT COST TOTAL		
STRUCTURAL	SUBTOTAL				6,000	PERMITTER	10000	Acado in Albanda a	16,000	
OVERHEAD	마스 경우를 보고 있다면 하다 마음을 하고 있다면 선생님이 되는 것이 없어 있다면 하다 하는 것이다.								2,400	
LABOR	1890								1,800	
MATERIAL	570			Eli Arribera sa Eli mondo de enello	Section Property Co. 6				300	
SUBTOTAL		Entra April 1	Lokeri	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					20,500	
PROFIT	1590						Paris Salar		3,075	
SUBTOTAL	and the second s								23575	
Bond	190								236	
SUBTOTAL	the contract of the contract o	Topics .	1 10	Part of the second	erek ekonomier Mega sossiya kelik	on on the second	Maria de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la composición dela composición dela composición dela composición de la composición dela composición de			
CONTENGEN	1090	a transmission						a security	23811 2381 26192	
TOT CONTR.		The state of the s							26192	
DESIGN	690	1905	104-25-3-1 201-1-1-2				Andrews and the second		1572	
TOT EST C	ost.					of the second property			27,763	
							N COLD SECURITY		Professional Control	
Specific and process and control of the state of the stat		b 4		Ada, and appear					THE A DECEMBER OF THE PARTY OF	
CAL 010C 15 010 1775	The second second									



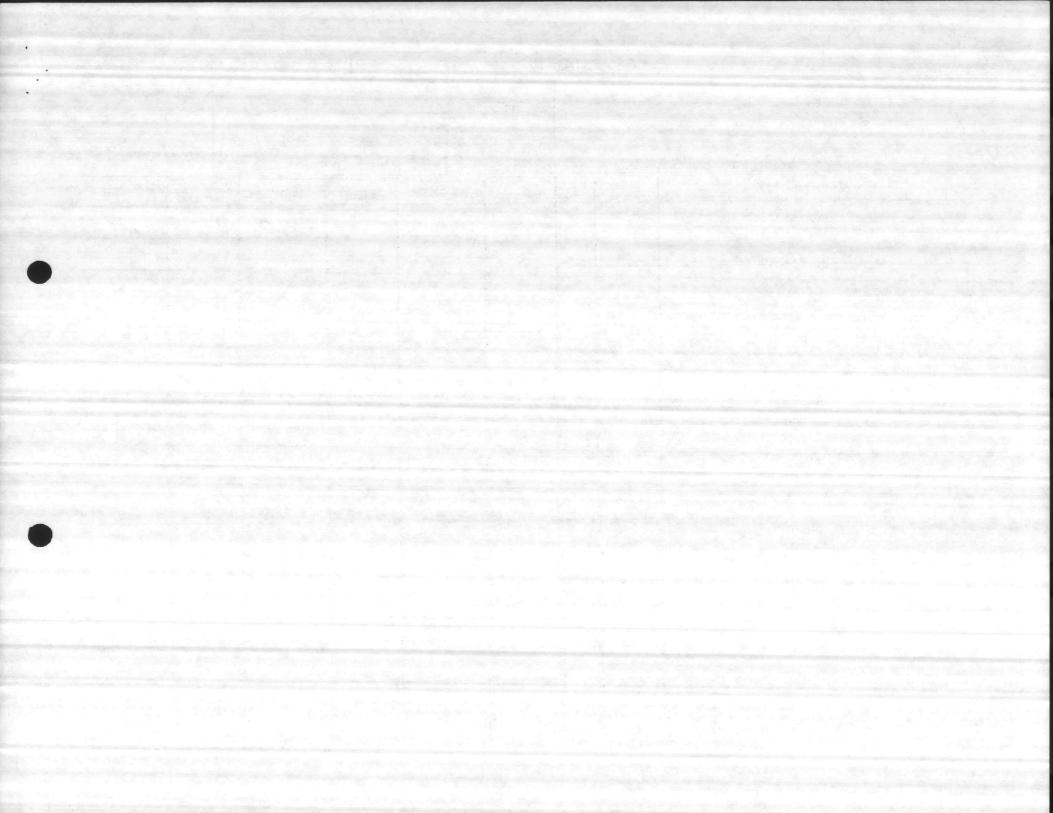
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIN	ATE			-Z-87	SHEET	OF
ACTIVITY AND LOCATION $RR-85$				CONTRACT NO.			IDENTIFIC	CATION NUMBER
PROJECT TITLE			ESTIMATED BY	Mostuff	nan		CATEGOR	Y CODE NUMBER
REPLACE EXTERIOR WINDOWS A	NO DOORS		PED 30% 100% FINAL		FINAL O	INAL Other (Specify)		ER NUMBER
ITEM DESCRIPTION	NUMBER	UNIT	MATE UNIT COST	TOTAL	LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMAT	
REPLACE WINDOWS, FRAMES, AM	d	in the same	ra faziria de Naza esperador	3,000		5,000	UNIT COST	8,000
SCREENS WITH NEW ALLMINUM						7		
TYPE, REPLACE EXTERIOR DOORS		Wilderson is						
AND FRAMES WITH STATE OF THE		Martine Sea	atematika termina		1234			
ART STEEL TYPE WITH GLASS					85			Ar James Section
INSERTS,		The P						er fortha on wi
						and the second of the second o	alen e a l'élèce	rial Chart
			The state of the s			per on state of the state of th		
		3						
	the state of the s			V				
							17.	
					alogical street		i de la production de la company de la compa	e stage i stad se la company
				SERVICE CONTRACTOR	918 mmg - 1		20 20 % 0 1 2 3 8	property and the second as
The proof seem of equality of the second		electrical		Ber Burn - France		ray		
		ilia alba Jenu			- 194 S			10.00
								der gerichten 18 eines
						the state of the same	inka sala sa Ka	Bet some Grade States
/N 010E-1E-010 177E						March 1986 April 1986 Sec. 18	Mindle Land	



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ESTIM	COST ESTIMATE				SHEET	OF	
RR-85	er en	MATE DATE PREPARED SHEET CONSTRUCTION CONTRACT NO. DATE PREPARED SHEET IDENTIFICATION I						
PROJECT TITLE	And the second	ESTIMATED BY ROBUSTON CATEGORY CODE N						
REPLACE EXT. WINDOWS,	AND DOORS	STATUS OF DES	IGN 30% 100%	ner (Specify)	JOB ORDER NUMBER			
ITEM DESCRIPTION	QUANTITY NUMBER UNIT	MATERIAL COST UNIT COST TOTAL		LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMAT		
STRUCTURAL			3,000		5000			
SUB TOTAL			3000	The Art Report of the	5000		8,000	
OVERHEAD 1590	0	en e			1		1200	
LABOR 1870	0	garantaga Nganggarataga	e de la companyación Seguir de la companyación	2-10-17 to 01-			900	
MATERIAL 590						i ve ja si	150	
SUBTOTAL			100 m				10,250	
PROFIT 1590	?	en sur a successive					1,538	
SUBTOTAL			, diggler of the section of the sect	eder og skrivete Skrivetet degeld			11,788	
Bond 190							118	
SUBTOTAL			(4) (4) (4) (4) (4) (4) (4) (4) (4) (4)			and the second	11,905	
CONTENCENCY 1090		Se grows will restrict to	Marketter (1997) Marketter (1997)	in the second	Armen of the Control		1191	
TOT CONTR COST			Armonia e de la Salanda (n. 1835). La la Radional, la Salanda (n. 1835).		and an incident			
DESIGN 690							13,096	
TOT EST COST	randam a same				and the second s	nodel on the sales to open	13,882	
					18.00 mg 1 18.00			
Dispersion of the Control of the Con								
		Macroson Marie		hat purchase the	alian again again	- 100 - 100		



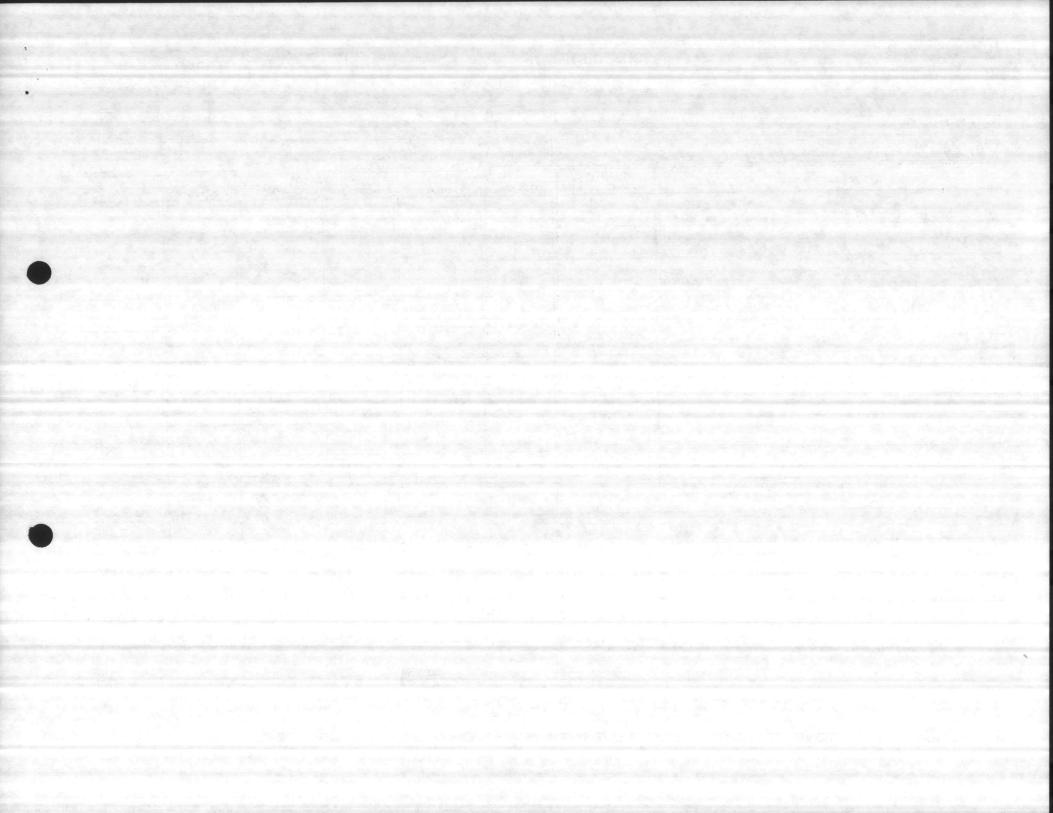
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ESTIM	ATE		TE PREPARED SHEET		OF	
ACTIVITY AND LOCATION $B8-190$			CONSTRUCTION	CONTRACT NO.		CATION NUMBER		
PROJECT TITLE	e en Men Alteri	1982-1-17 ₂ -1	ESTIMATED BY	RBfull	CATEGOR	Y CODE NUMBER		
REPLACE EXTERIOR WINDOWS AND	DOORS		PED PED	IGN 30% 100%		ther (Specify)	JOB ORDI	ER NUMBER
ITEM DESCRIPTION	NUMBER	UNIT	MATE UNIT COST	RIAL COST TOTAL	UNIT COST	BOR COST :	ENGINEER UNIT COST	RING ESTIMATE
REPLACE WINDOWS, FRAMES AND				2,800		4200		7,000
SCREENS WITH NEW ALUMINUM								
TYPE. REPLACE EXTERIOR DOORS				and the second of the				Marine State Comment
WITH STATE OF THE ART STEEL						Base Charles		Employee and the second
TYPE WITH GLASS INSERTS.	400	Brys of		a area de la composition della	Mr. Apr. Acr.	Section 1		
	7.0							26.3.24
		- 1981						
	4.5		r.	and the same				
		100				Section 1		
		43 44		S 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			a The Sales	
					1979 / 1 1964 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
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			E Roman Land		The state of			aj vijaka ing pangang Tanggan Pangang
	and the state of	- in	ni mangana na				n order side	Control of the Contro
		v. 10 p						
tille samme i samme se			#					
/W 0105-15-010-1335								



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST I	ESTIM	IATE DATE PI			PREPARED 27	SHEET	OF
ACTIVITY AND LOCATION BB-190			CONSTRUCTION	CONTRACT NO.	IDENTIF	IDENTIFICATION NUMBER		
PROJECT TITLE			ESTIMATED BY	RB Hell	man		CATEGOR	RY CODE NUMBER
REPLACE WINDOWS AND DO	ORS		STATUS OF DES	IGN 30% 100%	ming data to the sub-	her (Specify)	JOB ORD	ER NUMBER
ITEM DESCRIPTION	QUANT NUMBER	UNIT	MATE UNIT COST	RIAL COST TOTAL	LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMATI	
STRUCTURAL SUBTOTAL		aliet per recess	en e	2,800		4200		
OVERHEAD 1570		5-Q.,				122	Karania	1,000
LABOR 1890		71						754
MATERIAL 590						54, 014 31 104 34 3		140
SUBTOTAL								8,944
PROFIT 1090			Karamar dan 1					9,841
SUBTOTAL						Transfer of the second		18787
Bond 190								188
SUBTOTAL		Practical Section 1997	epiteliko eta jaloja Maria	Para Production				18,975
CONTENGENCY 1090 TOT CONTR COST		0 1						1897
TOT CONTR COST								29872
DESIGN 690		2.70			907 1 (1) (2) (5)			1,152
TOT EST COST							4	22/25
		M/S-12		e veg sak	er er en skille fan de skil De skille fan de skille fa	versor and a		
Hilliands to the second of the								
								de la companya de la

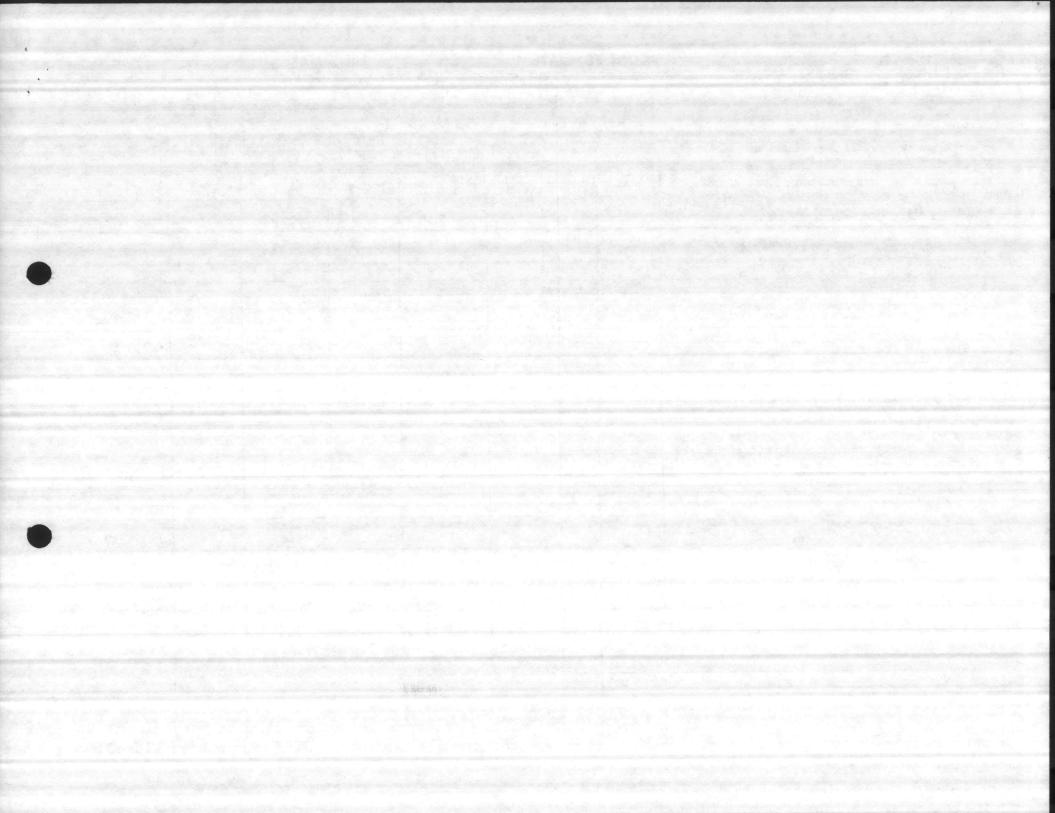


Supersedes NA VDOCKS 2417 and 2417A	COST	ESTIN	MATE			DATE PREPARED		SHEET OF	
ACTIVITY AND LOCATION			CONSTRUCTION	CONTRACT NO.	Contraction of the second	10-0 ·	IDENTIF	CATION NUMBER	
PROJECT TITLE			ESTIMATED BY	RBHUL	man		CATEGO	RY CODE NUMBER	
REPLACE EXTERIOR WINDOWS AND DE	BORS	y a se sud	PED PED	30% 100% [ther (Specify)	JOB ORD	ER NUMBER	
ITEM DESCRIPTION	QUANT	UNIT	MATE UNIT COST	RIAL COST	LA UNIT COST	BOR COST TOTAL	ENGINEE!	RING ESTIMATE	
REPLACE WINDOWS, FRAMESAND			and the second second	1800		2700	CHIT COST	4,500	
SCREENS WITH NEW ALUMINUM		i na	Standard Const.						
TYPE. REPLACE EXTERIOR DOORS					Walter St.			- 44	
WITH STATE OF THE ART STEEL	The second secon			2012	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		The year	are proposed as	
TYPE WITH GLASS INSERTS.					191276				
				and William (a. 1886).					
					in seem makel	grave final constant			
		and the second							
	ran Ser and Talentes					1376	J. + 1 (a.)		
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		Carlo de 1							
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	the specimens and	da de la	and a second second						
S/N 0105-LF-010-1335							All and the second	THE RESERVED TO THE	



Supersedes NAVDOCKS 2417 and 2417A		COST	ESTIM	MATE DATE PREPARED				5-26-87 SHEET	
ACTIVITY AND LOCATION				CONSTRUCTIO	N CONTRACT NO.			IDENTIF	CATION NUMBER
PROJECT TITLE				ESTIMATED BY	RRA	Aman		CATEGOR	RY CODE NUMBER
STRUCT REPAIRS	1			STATUS OF DE	SIGN 100%		ther (Specify)	JOB ORD	ER NUMBER
ITEM DESCRIPTION		QUANT	ITY	MAT UNIT COST	ERIAL COST	LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMAT	
STRUCT. SUBTOT.	AL				1800		2700	ONT COST	4500
QUERHEAD	ra 200 - 12 - 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second second			7		13/		675
LABOR 1	1890						i i i		486
MATERIAL 5	90		DAMES N			e de la companya de l			90
SUB TOTAL		and the second			Bergeranden in der en Bergeranden Steren	en e		9(32)	5,751
	90		eu .			Tra Street			575
SUBTOTAL	ar estado e proceso de la composição de la La composição de la compo		in one			5000	en e		6326
Bond 19	0	C. Turkerpeliner			Parties and the My	gerinder der der Ber		er veleges ge	63
SUBTOTAL			7				Managara Caranta San		4389
CONTENGENCY 18	190								639
CONTENGENCY 18 TOT EST CONTR.CO	ast		and the second	er teller sag som		gale (1987)			7028
DESIGN 670				ay (Maleyale ya					422
TOT EST CAST						e and the	the state of	ilement is	7,450
				A THE CONTRACT OF					

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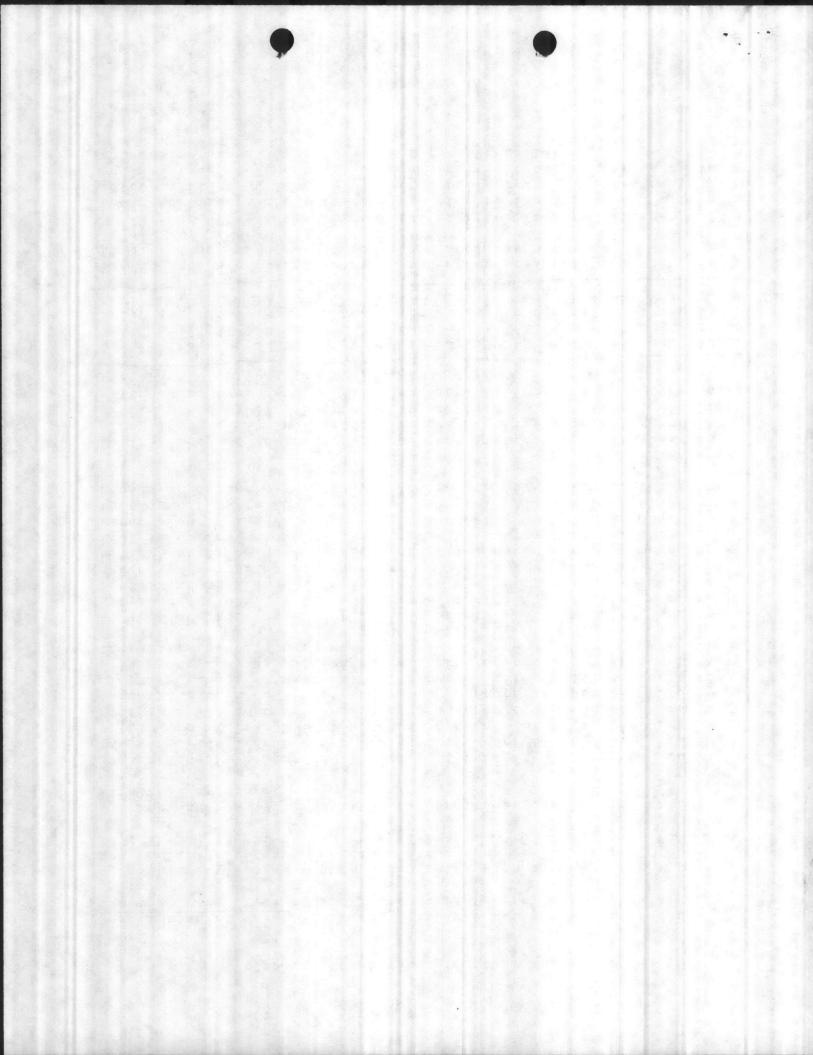
Description of Work: Work shall include but not be limited to the following items to provide a complete and usable facility:



- Replace windows, frames and screens with new aluminum type and replace Then exterior doors and frames at Buildings 20, BA-138, RR-85, RR-15, BB-190, and TT-39A. 22, 32 BLOC # 20 DOORS ONLY.
- Replace removable metal panels behind boiler Nos. 46 and 47 with roll up doors.
- 3. Replace five Simplex flow transmitters at Building 670 for raw water, delivered water, rate of flow for filter No. 1, rate of flow for filter No. 2, and backwash rate of flow. New transmitters shall contain no hazardous materials, be connected to and compatible with existing receivers, be properly labeled, have 3-15 psi pneumatic signal output, measure differential pressure from primary devices and protected in corrosion proof housings. transmitters contain mercury.
- Replace four meters at Building BA-138 for raw water, delivered water, reservoir level, and elevated tank level. New meters shall contain no hazardous materials, have a 4-20 ma signal to receiver, and have 24-hour chart recorders. Differential pressure transmitters shall be used for flow and level measurement. The elevated tank level indicator shall use radio telemetry from the tank to water plant. Raw water and delivered water meter shall have totalized flow in 100 gallons per minute. All meters shall be housed in cabinets resistant to corrosion and water vapor infiltration.
- Replace and rewire explosion proof light fixtures in basement of Building 22 including upper floors of three supernating rooms and in Building 32. Rewire motor starters, switch boxes, and light switches in same areas. All electrical equipment and devices shall be explosion proof. REWIRE BUILDINGS COMPLETE ASPER N.E.C.
- 6. Rewire sewage lift stations TT-32, TT-34, M-241, S-E-23, 2100, S-47, S-46, TC-563, and TC-565 completely including internal wiring, motor starters, H-O-A switches and automatic operation wiring and devices. DELETE From project ITEM & will be Accomplished whouse
- 7. Replace and rewire interior and exterior lighting at BA-138. Also, replace main switch box and associated conduit.

 REWIRE BUILDING COMPLETE AS PERMER.
- Replace five control starters, eight start/stop switches and two motor disconnects presently located on the flume wall in the lower level of Building 670. Work shall include relocating the equipment to the front wall, new conduit, boxes and wiring devices and equipment shall be suitable for wet conditions.

9- INSTALL AN EXHAUST FAN AND/OR VENTILATION SYSTEM IN SUPERNATENT ROOM NO.516, BY DING# 32 TO REMOVE GASES FROM DEGESTOR TUNNEL



BASE MAINTENANCE DIVISION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

DATE:

989/ 35%

24 JUN 1987

FROM: BA

TO:

BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.

PUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP

LEJEUNE, N.C.

SUBJ: ENG

ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M36CN

ENCL:

(A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS

(B)

1. TYPE OF SERVICE REQUESTED:

REPLACE SEWER MAINS VARIOUS LOCATIONS TC, HP, MP AND MCAS

2. DESIRED COMPLETION FISCAL YEAR: 88

3. FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: M1 BUILDING/FACILITY IDENTIFICATION FOLLOWS:

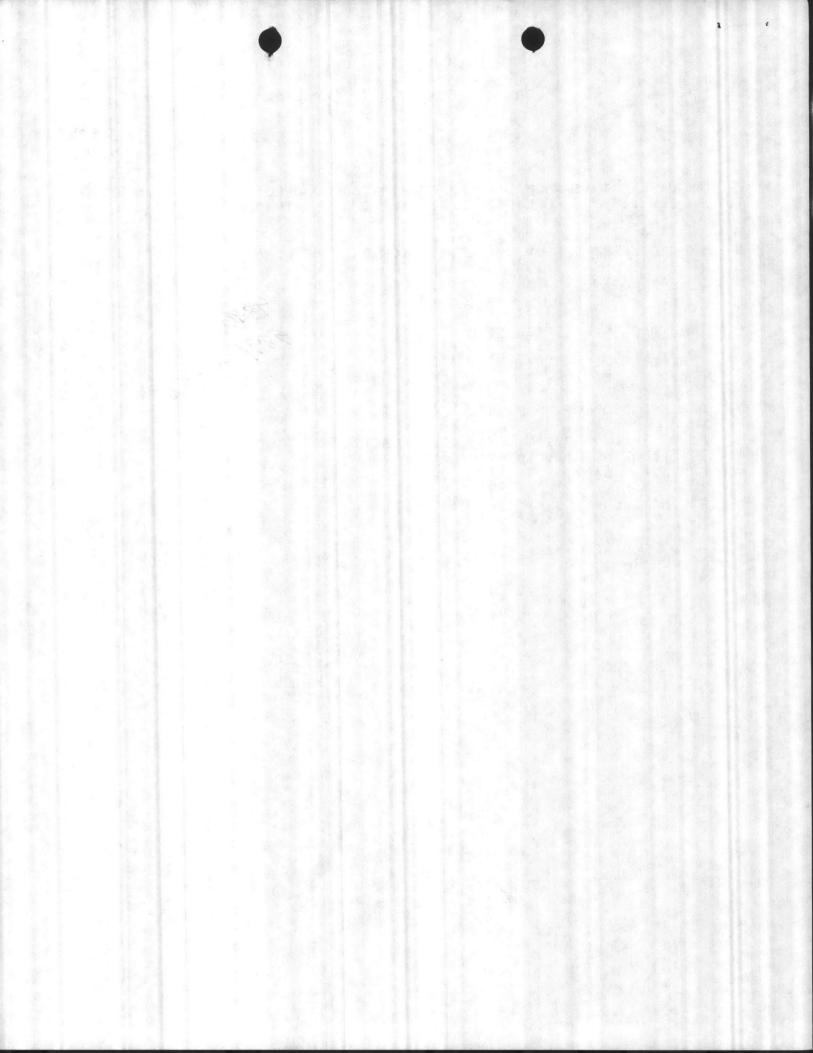
GRD G24, S687, S688,

ESTIMATE COST IS \$ 245,467.00

3. POINT OF CONTACT IS GREG SHOEMAKER

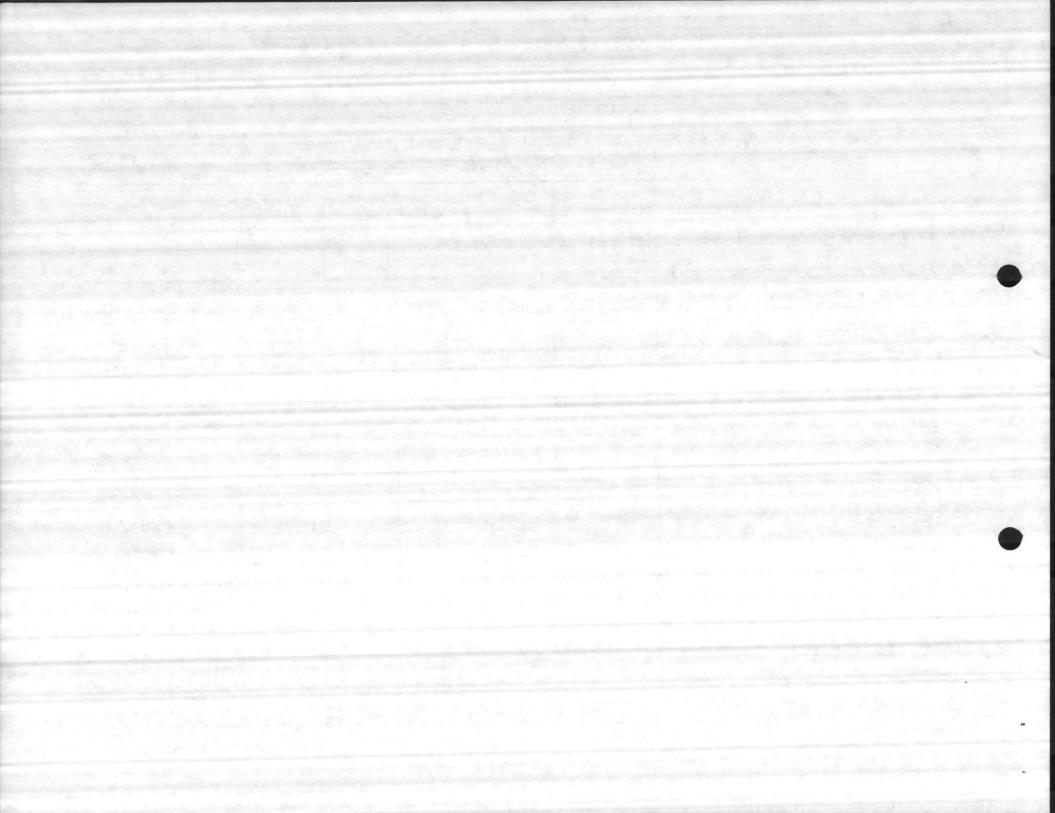
, FHONE 5794

J.D. Jewell T.D. Jewell BY DIRECTION

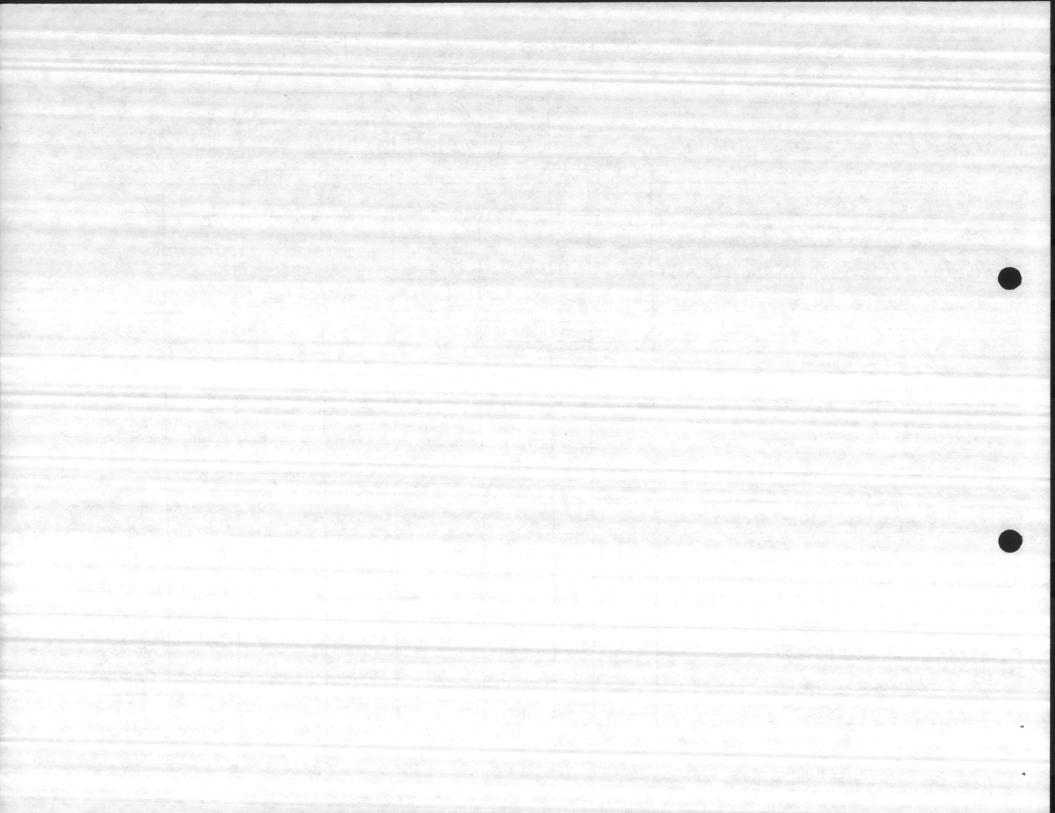


NAVFAC 11013/7 (1-76) Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMA			en de la rigida de la registra. Considerado de resembla espera y como	F PREPARED	SHEET OF		
ACTIVITY AND LOCATION	C. Louise	r istraja "istorija	CONSTRUCTION	CONTRACT NO.	IDENTIFI	IDENTIFICATION NUMBER		
S687 PROJECT TITLE			ESTIMATED BY	Robbus	CATEGORY CODE NUMBER			
REPLACE ROTARY FILTER DISTRIBUTOR	?	STATUS OF DESIGN PED 30% 100% F		FINAL O	her (Specify)	JOB ORDER NUMBER		
ITEM DESCRIPTION	QUANTITY NUMBER UNIT		MATERIAL COST UNIT COST TOTAL		LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMATE UNIT COST TOTAL	
HADNOT PRINT SEWAGE TREATMENT	3.1834 - 3.493 3.1834 - 3.493	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		3,000		4.000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7,000
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ROTARY FILTER DISTRIBUTORS WITH		Section of	are considerable and the	and the select force				
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SUBTOTAL		Cook Spirits and Funds		3,000		4,000		7.000
QUER HEAD 1590		5. 27 字。例 5. 36 - 5.5			100 May 12			1050
LABOR 1870		in Briefly		Carlo Marine Marine Services	erroman erde Sommen	rings of the second		720
MATERIAL 590	1982					Marie de la companya		150
SUB TOTAL				Andrews of the second s	and the state of t	(大)	en e	8.920
PROFIT 1090	e e e e e e e e e e e e e e e e e e e							892
SUBTOTAL	National Action	andia Angli	residenti il ili soli. Riprida di la seleta	erina en la lacción (se elle). Anterior de desta la como en	order of design	Free State (1977) All States	Ast.	9,812
Bond 190					ing the state of			98
SUBTOTAL		ar Safar George	Ber Samon Green Samon Samon Samon Samon Samon Sa		town two troudes or to one thinks	n Kinggan Sana Makking managan sa	The Manual of	9.910
CENTING ENCY 1090					rythan Art fay ith	1,50 to 1		991
TOT CONTR COST		Enseithe and	an in Africa a Grand America		in the second	the American services		C14000 - 1000 - 1000 - 1100
DESICN 690			er diversity	one and the second		Americana.	The sales	10,901 654 11,555
TOT EST COST S/N 0105-1F-010-1335		(3) (3)		Park and the second		in the second se	1,67	11,555

10.0



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMATE						SHEET OF		
ACTIVITY AND LOCATION	The Company of State			N CONTRACT NO.	IDENTIFIC	IDENTIFICATION NUMBER			
PROJECT TITLE	and the second	1 482	ESTIMATED BY	RABles	CATEGORY CODE NUMBER				
REPLACE ROTARY FILTER DISTRIBUTO	0		STATUS OF DES		FINAL OU	er (Specify)	JOB ORDE	JOB ORDER NUMBER	
ITEM DESCRIPTION	QUANT	ITY		RIAL COST		OR COST TOTAL	ENGINEER UNIT COST	RING ESTIMATE	
HADNOT PRINT SEWAGE TREATMENT				3,000		4000	CATT COST	7,000	
PLANT, REPLACE 170 FOOT DIAMETER					A STATE OF THE STA			10 c 1 2 c	
ROTARY FILTER DISTRIBUTORS WITH		11 1430) 114	n verselier in George De Ge		Allere Law in	are desired		Average s	
NEW HOT DIPPED GALVINIZED DISTRIBUTOR	P						September		
SUBTOTAL				3,000		4,000	er er kommer er en er er er Kommer er e	7,000	
QUERHEAD 1590		194691 1445-144	A STATE OF THE STA		A SHOWN NO.		e vjednosti	1050	
LABOR 1870				10 m	A SAMESTAL AND	Principal services of the serv	To found the second	720	
INATERIAL 590	STATE OF STATE		rain na Pelak Pelak Pelak Sa	a santa da dise				150	
SUB TOTAL	Maria de la companya	193420		The street of the second of	14 4 1 4 4			8920	
PROFIT 1090	A Daniel Co	Zerban Light	av sipregaver and the Arras		The Marian			892	
SUBTOTAL		uniperior par	ante pries a sello Senti	. 25. GA	- 5 , 502 () 4 () 620	de la companya de la		9,812	
Bond 190	and the second	e de esta						98	
SUBTOTAL	etis instituti i instituti tari	17 - 17 - 18 18 - 18			1,81346 A. P. J. 1		* 15 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	9,910	
CENTING ENCY 1090	W 1.80 - 17.					1.00		991	
TOT CONTR COST		nger over e	graph of Property			Section and the	1	10,901	
DESIGN 690								654	
TOT EST COST				King and St. Proposition of the Assessment of the Control of the C		and the second second	- 10 m	11,555	

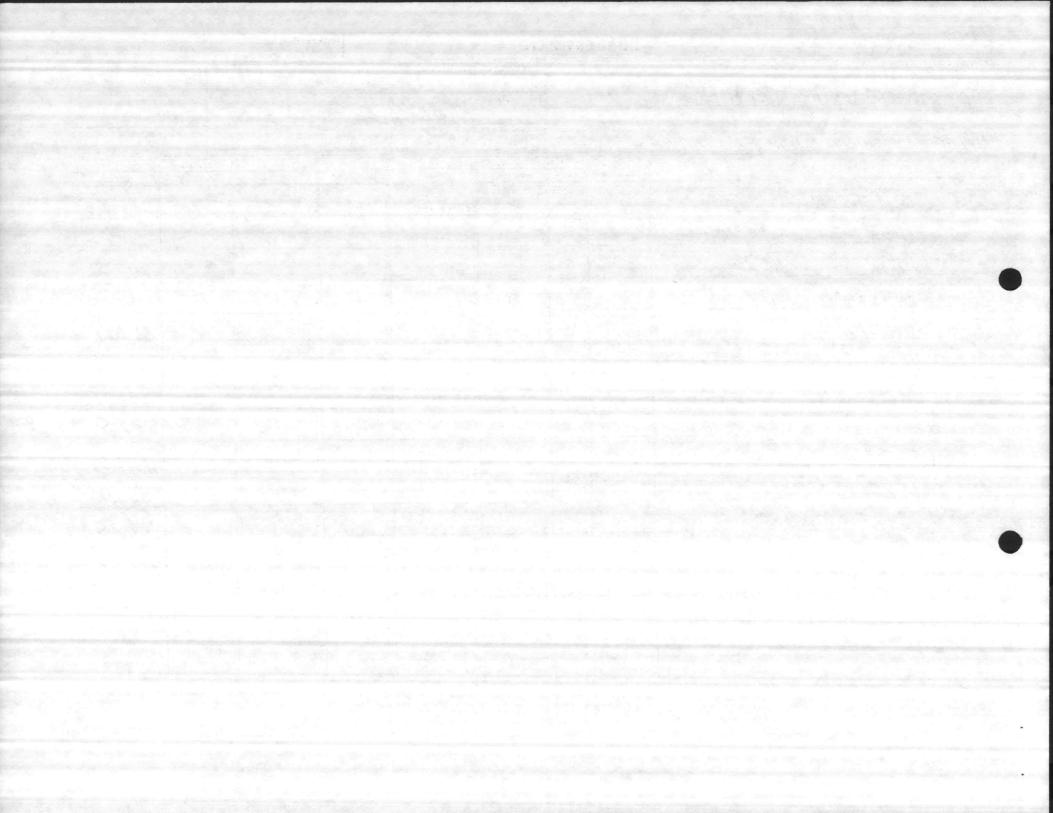


NAVFAC 11013/7 (1-78) Supersedet NAVDOCKS 2417 and 2417A	COST ESTIM			ATE		DATE	PREPARED.	SHEET	OF
ACTIVITY AND LOCATION			ingering Septima	CONSTRUCTION	CONTRACT NO.		IDENTIFICATION NUMBER		
FROM 1500 TO TO 1141	/			ESTIMATED BY	RBAy	man		CATEGORY CODE NUMBER	
REPLACE SEWER MAIN AND	MAN HOU	185		STATUS OF DESIGN PED 30% 100%		FINAL Other (Specify)		JOB ORDER ROMBER	
ITEM DESCRIPTION		QUANT	UNIT	MATER UNIT COST	TOTAL	LAB UNIT COST	OR COST TOTAL	UNIT COST	TOTAL
REPLACE APPROXIMATELY	650 FEFT				14,960		14,735		28695
OF 6 INCH AND LOSOFEET						act at the		200	
SEWER MAIN WITH 12 INCH	PUC	# 57 H	4411		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7			
SEWER PIPE, WORK SHALL BEG.	INAT					10 10 10 10 10 10 10 10 10 10 10 10 10 1			A grant production
THE SEWER MANNAE INFRO.	NT OF	regions in contract of the	114 to					14.00	
DELALIO ELEMENTARY SCHOOL	L(T.C. 1500)		190.00					act.	
AND END AT SEWER MANHO	18		25,545	14 S					
SOUTH EAST OF BUILDING 1							The second secon		Harris Harris
WORK SHALL INCLUDE A		A CATALITY	ettija.)	romatic services	140 100 100			100 g 104 g 10	
REPLACEMENT OF SIX M				2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					Carl Sept.
ALONG THE EXISTING LI	UES.	Section 25			The state of the s	4.4			
REPAIR/REPLACE ALL		0						276	
OR REMOVED ASPHALT. RES	SEED			96.25			a - Ku		
AREAS OF DITCH LINE.	4 15 30 18		A 1994						
		Commences analysis				1	er en		
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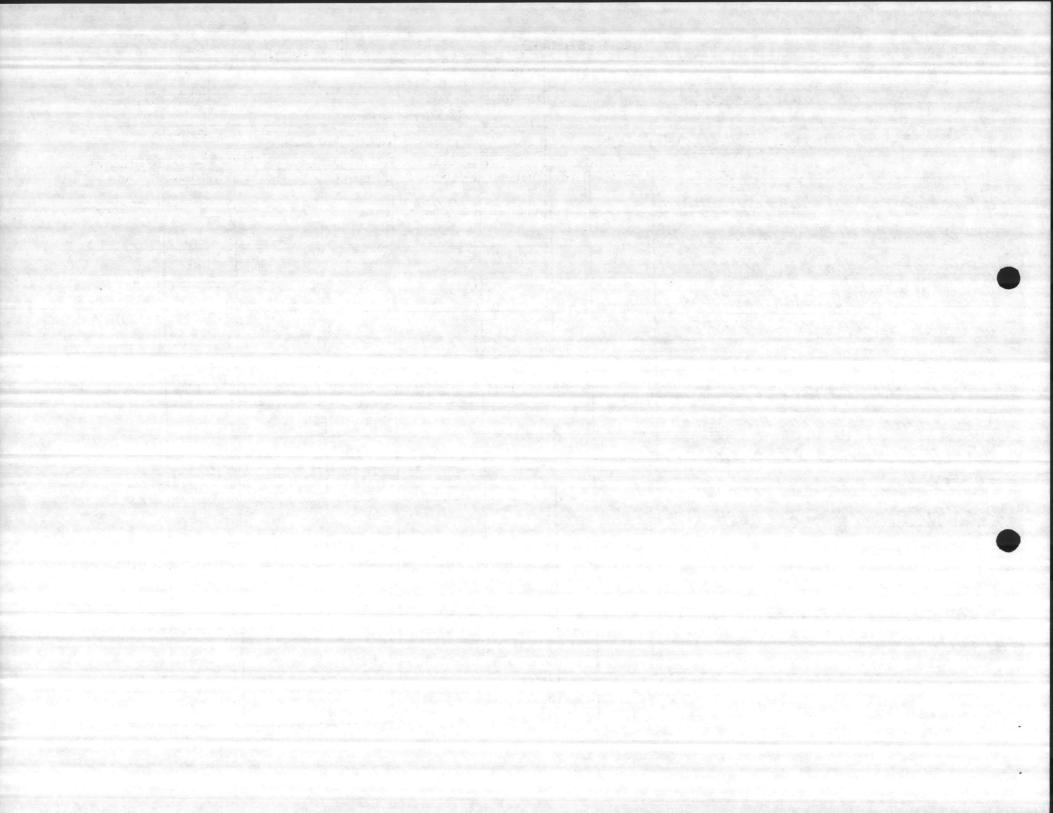
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST ESTIMATE						REPARED SHEET OF	
ACTIVITY AND LOCATION	and the Comment of State of	and providing the section of the		CONSTRUCTION	N CONTRACT NO.	ga ar garar ka		IDENTIFI	CATION NUMBER
FROM TC-1500 TO	TC 1141			ESTIMATED BY	DON N 11	also.	CATEGORY CODE NUMBER		
REPLACE SEWER MA	IN AND MA	NHOLES		STATUS OF DESIGN PED 30% 100%		FINAL Other (Specify)		JOB ORDER NUMBER	
ITEM DESCRIPT		QUANT NUMBER	UNIT	MATE UNIT COST	RIAL COST TOTAL	LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMATE UNIT COST TOTAL	
SUBTOTAL	all and the second	And the second second			14960	a serve legig	13,735		28695
OVER HEAD	1570	er tære		distriction in the second	en e	en e	an entre trius process against a graph	and the second second	4304
LABOR	1870					Table of the Sales		and the second	2,472
MATERIAL		10 (20 %) 10 (10 %) 10 (10 %) 10 (10 %) 10 (10 %) 10 (10 %) 10 (10 %) 10 (10 %) 10 (10 %) 10 (10 %) 10 (10 %)	16 167 V				roje i Po		748
SUBTOTAL		e de la composition de la composition La composition de la			en e	The state of the s	car Labor Carlos		36,219
PROFIT	1090	e de la description de la company de la comp		aliye vusa					3622
SUBTOTAL		i produktivni je istori 1980. gada i postaliti i		e de la company	ta ja vilgo et i Karin garent igi		Algebra (1996)		39841
Bond	190		ing of the same	e Verget en en e					398
SUBTOTAL	Salakat menangan sebagai salah s			e of which at		in the state of th	Service Company		40,239
CONTENGENCY	1090	ration of the second	a teach				Average grant of the second	4 12%	4,024
TOT CONT EST	COST		Table 1987	ante a sue setas Sue transcript	and a superior of the second	residenti della consultati programma della consultatione	Surgery and the second of the	Net solve i solve Programa	44,263
DESIGN 6			1,400	pelo difference				s(t)	
10T EST COS	7					e e de de la comprese.	Amagina from the region of the con-	1 12 Parish	2,656
				15 - 10 - 12 1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Section of the	entreppe et ann. Pet Paylor, wa	e planet in the second		e marks as a string of
n species and the species of the spe		Market Tolking	300 may 2	ate of the common Stranger and accommon	territoria de la composición del composición de la composición de la composición del composición de la composición de la composición del composición de la composición del com	is considered to the considered of the considere		1900 Medi	Alex)
						Say Arthur Silver Car Say Spirituals		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Arrama Arrama Markan
And the second s		group and the state of			reconstruction of the second	acidire at said ages	er en		



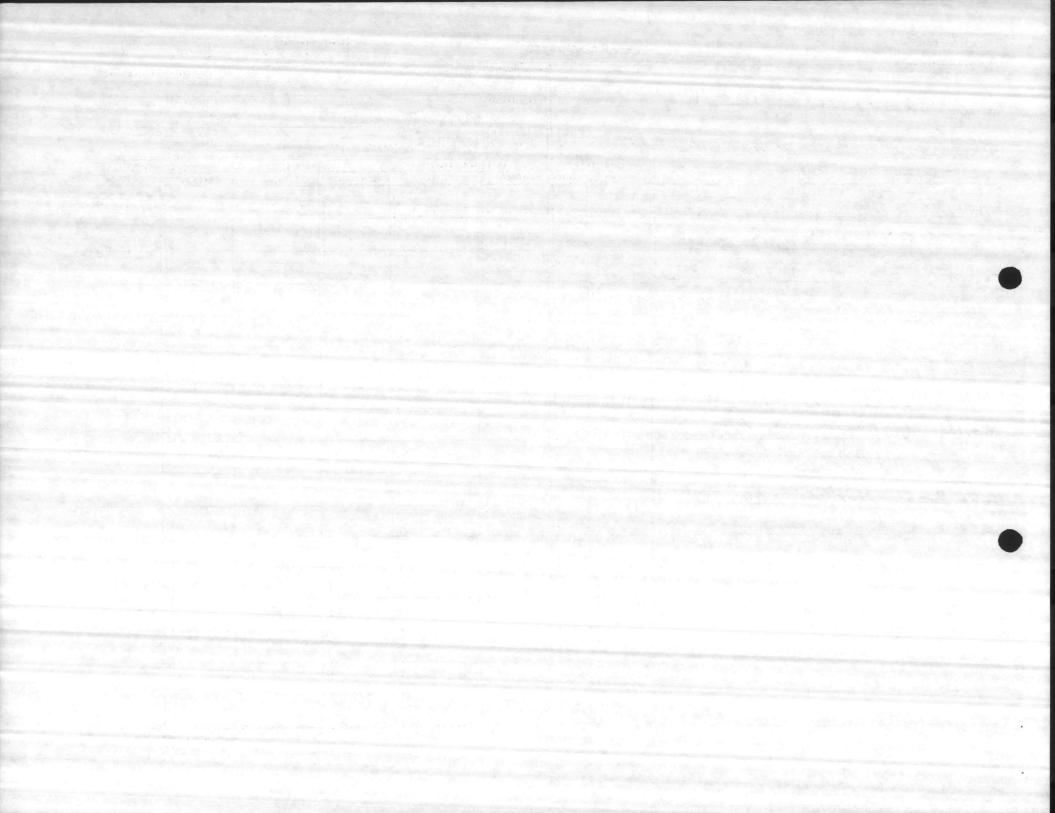
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		COST	STIM	ATE		DAT	PREPARED 7	SHEET OF		
ACTIVITY AND LOCATION				CONSTRUCTION	CONTRACT NO.	IDENTIFICATION NUMBER				
BREWST ER D	BOULEVARD			ESTIMATED BY	RBfull	CATEGORY CODE NUMBER				
REPLACE SEWER M		HOLES		STATUS OF DES		ALCOHOL: NO THE REAL PROPERTY.	her (Specify)	JOB ORDER NUMBER		
ITEM DESCRIPT		` QUANT	UNIT	MATE UNIT COST	RIAL COST	LABOR COST UNIT COST TOTAL		ENGINEER UNIT COST	TOTAL	
SUBTOTAL				2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12,400		38,658		51,058	
QUERHEAD 1	570	Constant Constant							7,659	
LABOR 18	270					APPENDENT OF THE PROPERTY OF T			6,958	
MATERIAL 5	570		1983		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				620	
SUBTITAL					and the second second				66,295	
PROFIT 16	90	A Paracas			State of the second				6,630	
SUBTOTAL									72,925	
Bond 19	10	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 mg (100 mg)	三		100 - 1100 a	govern by		729	
SUBTOTAL				4 (80)		1000		7.	73,654	
CONTENCENCY 1	070								73,654	
TOT. CONTR. EST CO.		1,000 81 41.4		and the grade of					81.019	
DESIGN 6	90			4 42 5				14.76	4,861	
TOT EST COST						erioria y di Serio		This is	85,880	
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	X 35 12. 4			100	ANALYST AND					



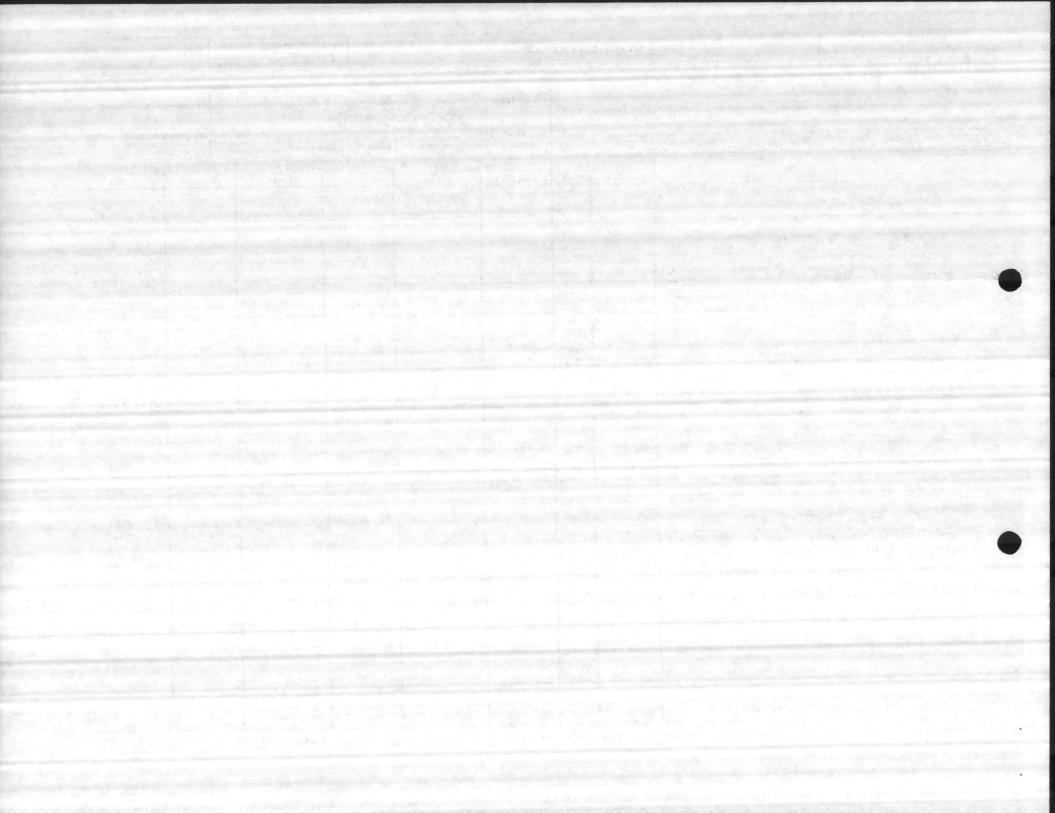
Supersedes NAVDOCKS 2417 and 2417A	Karaja a Salatin da Karaja da Karaja	COST ESTIMATE DATE PREPARED 0-4-87						SHEET	
ACTIVITY AND LOCATION			CONSTRUCTION	CONTRACT NO.	IDENTIFE	IDENTIFICATION NUMBER			
REPLACE SEWER MAINS AND MANHOLES			ESTIMATED BY	RBAUGA	CATEGORY CODE NUMBER JOB ORDER NUMBER				
			STATUS OF DES	IGN 100%					
ITEM DESCRIPTION		QUANTITY NUMBER UNIT		MATERIAL COST UNIT COST TOTAL		LABOR COST UNIT COST TOTAL		ENGINEERING ESTIMATE UNIT COST TOTAL	
AT BREWSTER BO	ULEVARD MAIN		e anglese or	erstrongerster der Georgian aber	12400		38658	UNIT COST	51058
GATE AREAS, REPL.	이 집 전투는 경기는 경기가 하게 그렇게 되었다면 하면 그런데 되었다는 경우를 하게 되었다.						7	The property of the sales	Sundaya A
400 FT OF 12 INCH	SEWER MAIN							75	
ALONG BREWSTER B	BOULEVARD FROM				entre April o de la secono La completa de la secono				
MANHOLE #848L	THROUGH 847L	Anna a	11 A 7 637	and Section 1				e Safetage G	1444.00 mm
TO MANHOLE 275A	WITH PUC PIPE,		Thru their	100000		t acres stay	And a property	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Hajiyahi ayana Sirtis
REPLACE APRO. 2,00	OFEST OF 15 INCH					ent of the second view	Specification of the state of t	e katik	
SEWER MAINFROM	MANHOLE 275A	Albert State		restrigion in					enggyttyk a like en er Hansassanarik en er
IHROUGH MANHOLES	276A, 27A, 28A	MATERIAL STATE		erikaldar içeri Artikli	ga di seria da de di Serie e di sudedi	ng rivide District			
279 TO MANHOLE	# 280 A WITH	erge stall be Starte e W			et district de San et district de San				e Service
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REPAIR/ REPLACEME] [] [[] [] [] [] [] [] [] []		eran Marin	tan ing salah di dalah d	en e	en e		7.4. 17.4. 54.3%	
MAN HOLES, REPA		1 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	100 1851		Two divines of the control of the co		ica straditi agretiani	e trains Physicides	and Armona Barrer
DAMAGED ASPHALT		polici seggi desperi polici seggi desperi	e la de la La de la companya de La companya de la c		energy Altri	The Market Control	AND THE PROPERTY OF		National Control
AREA.				Production of the second of th		out in costly			
			South NO.	Contraction	e Degrés de la Servición de la Companya de la Compa	on payage at the	entre de la companya	4	
		Aug Springer					inder our man		otaciko igli a co
C/M 0105-15-010-1335							State of the late		attane Uper to L



Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMATE					SHEET OF		
ACTIVITY AND LOCATION		CONSTRUCTION	CONTRACT NO.	IDENTIFICATION NUMBER CATEGORY CODE NUMBER JOB ORDER NUMBER				
PROJECT TITLE REPLACE SEWER MAIN AND MANHOLES			ESTIMATED BY			RBAuffr		
			STATUS OF DES			IGN 100%		
ITEM DESCRIPTION	QUANT	UNIT	MATE UNIT COST	RIAL COST	LAB UNIT COST	OR COST TOTAL	ENGINEER UNIT COST	ING ESTIMATE
REPLACE APPROXIMATELY 350	Paris Paris San	STATE OF STATE		4425	The Samuel State	4.882		11.307
FEET OF 8" SEWER MAN FROM	e e Marie Little Anna	100	in saging the		e e e e e e e e e e e e e e e e e e e		i organisti Visionisti	entrope per se gradition of the second
MANHOLE 5981 AT LCH 1408 10				The second of the second	distributed the			Salari Pari
MANHOLE 978L AT LCH 1509, REPLACE	Control of the Second	15850			The State of	Berger (Sp. 1996) Geberrer	in een verveelige Teen propositie van die s	
APRO. 150 FEET OF 10 INCH SEWER						e grande en	1 1 W - 500	
MAIN FROM MANHOLE 978L TO						Landa de transporter de la composition della com		
MANHOLE 979L ATLCH 1511. WORK	ara da series de la compansión de la com	tale men	a paga tagang Tagang			The Rose Cons	i sangle page	ONE STATE OF
SHALL INCLUDE REPAIR/REPLACEMEN	T	26 F 1	t a take e a				and a second section of the section	
OF FOUR MANHAES, REPLACE		7. 2007,0 2001,0	an mining and	The second	Parish on season Observations of the			ulijas ja ja sala Partieli
DAMACED ASPHALT, RESEED	erianista Parti		eriak teksairen saud gelokus eri in seksa skan saud				Service Assessment	
AREA.	Alle Selection of the S		et de la serie de	and the same of th	a promise a service		e e e e e e e e e e e e e e e e e e e	mpressione (m. 1875). Listo de la composición
			Annaga (1992) as		er er generaliset in der er e			C piken Co
	erride ca	2 George			A STAN			
		i s Garag				A Contraction of the Contraction		5.00
and the second s				andres de la company		And the state of	10% 100%	3.061 (32m)
	2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	TEAMS		The American	Mark St.			englesk programme However
				and the state of t	A Section 1975 Comments		4.79	all the strain of the strain o

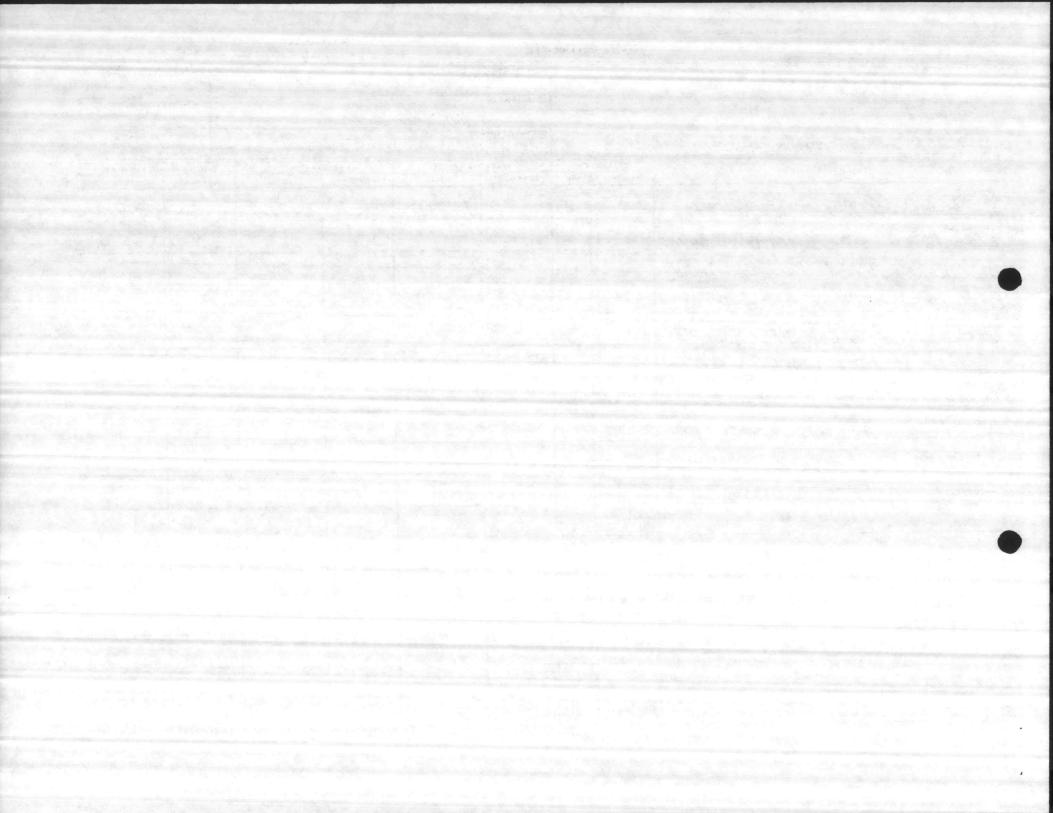


NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	ATE	DAT	F PREPARED	SHEET	SHEET OF		
ACTIVITY AND LOCATION MIDWAY PARK (LCH) PROJECT TITLE REPLACE SEWERMAIN AND MANHOLES			April Alagory	CONTRACT NO.		IDENTIFICATION NUMBER		
			STATUS OF DESIGN				CATEGORY CODE NUMBER	
			PED	30% 100%	FINAL Ot	NAL Other (Specify)		JOB ORDER NUMBER
ITEM DESCRIPTION	QUANT NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	OR COST TOTAL	ENGINEEI UNIT COST	TOTAL
SUBTOTAL			All production page	4.425	and the second second	6.882		11,307
OVERHEAD 1590		12.5	adas in section in			enter enter en enter e	en e	1,696
LABOR 1870		gelos 195 A Tec			a or says		vertices Ade	1,239
MATERIAL 590	engalang series ing Galagian penggalangga	0			All the second s	aliana (g	10.75	22/
SUBTOTAL	e in the contract of			ter en respective	e- a - nise - wall		100 100 100	14463
PROFIT 1090	Parket and	A Service					200 10 545	1.446
SUBTOTAL	openia o discolar (s			garjās ir Somesa Atmenta un vieta	nga sandiningsi Lagarati	Marine State	e di constante. La gradia	15,909
Bond 170	a in a final soft						A grant manage	159
SUBTOTAL	8.00 (ctos, pd.)	S Tag		Maria Maria de Caracteria de C		Maria sangal		16,068
CONTENCENCY 1070						erial Serve , series sign		1607
TOT CONTR EST COST		dand ca				BACA SARAN		17.675
DESIGN 670					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1.061
TOT EST COST	Andreas and a second a second and a second and a second and a second and a second a	1 2 98 7 (1	an Printer and a Marchael			de '		18,736
	110	× -045						19.15
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				SECTION ASSESSMENT	12 7 day (12 2)		A STATE OF THE STA	of My Continue
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S/N 0105-LF-010-1335	Production (lating Office, 1994	

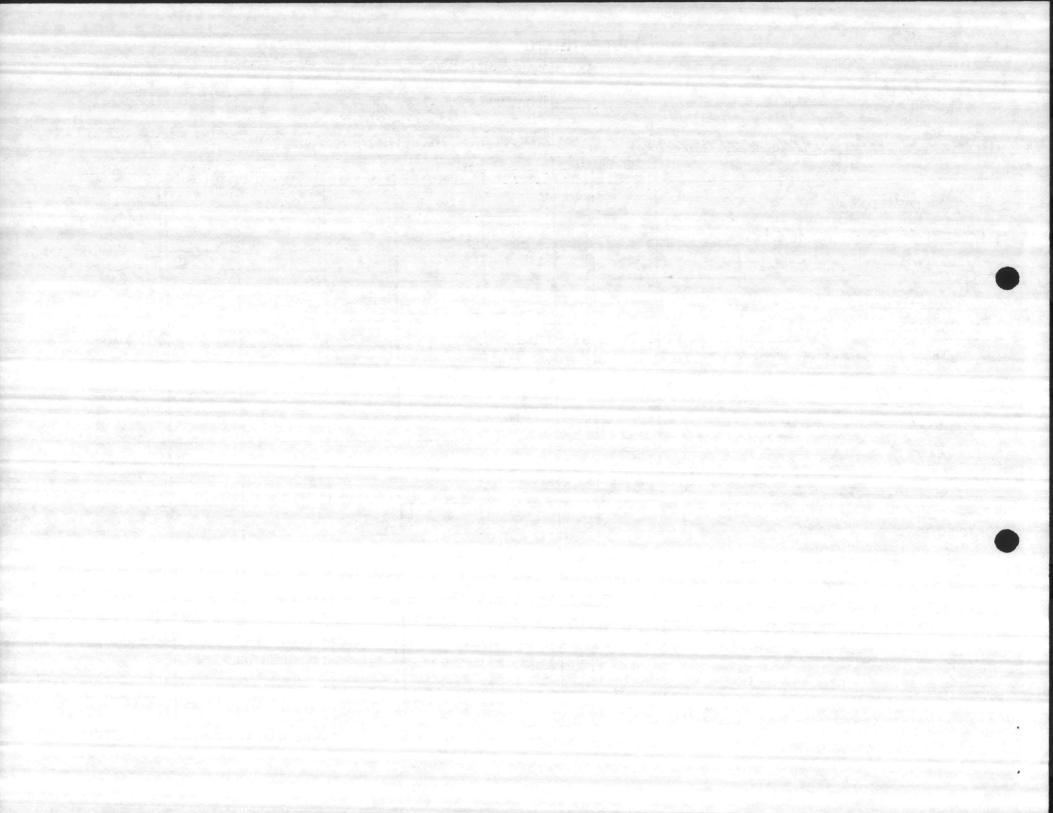


Supersedes NAVDOCKS 2417 and 2417A	COST ESTIMATE					PREPARED	SHEET	OF
PROJECT TITLE REPLACE SEWER MAINS AND MANHOLES			CONSTRUCTION	CONTRACT NO.	IDENTIFICATION NUMBER CATEGORY CODE NUMBER			
			ESTIMATED BY	RRHAL				
			STATUS OF DESIGN 100% FINAL Other (Specify)				JOB ORDER NUMBER	
ITEM DESCRIPTION	QUAN'	UNIT	MATE UNIT COST	RIAL COST	UNIT COST	BOR COST TOTAL	ENGINEER UNIT COST	RING ESTIMATE
REPLACE APPROXIMATELY 1100		146		13,770	10 33 4 3	16,142		29.912
FEET OF 8" SEWER MAIN BEGINING	=	J. Sheed						
AT MANHOLE A-TOLL LOCATED SOUTH-	75, 70 a			The Angel Control				
EAST OF AS-1173 And ENDING AT								
MANHOLE A-71 SOUTHWEST PUMP				年的 建设计划。194	4 2 75			
STATION AS 1001, WORK SHALL	- 100							
LUCLUDE REPAIR REPLACEMENT	100	E.Balina				Take.		
OF SEVEN MANHOLES ALONG THE	isty (Linder)	10.50		and the same	and the second second	Pali-		
EXISTING LINES, REPLACED DAMKE	0						**************************************	
ASPHALT AND RESEED AREA.			100					
								And the same
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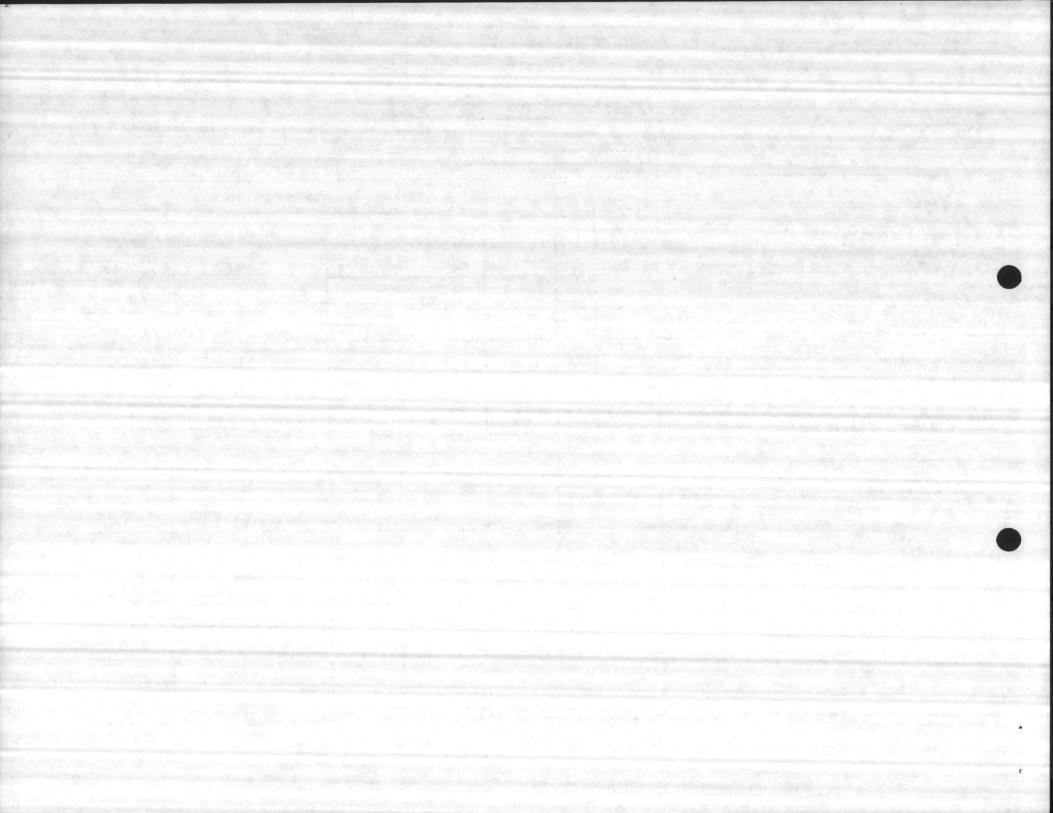
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Project: Sewerage System Repairs

Description of Work:

- 1. At Camp Ceiger Sewage Treatment Plant, replace two 170 foot, 37 cfs diameter rotary filter distributors at structure 5-687 and 5-687 with new hot dipped galvanized distributors.
 - 2. At MCAS, New River, replace approximately 650 feet of 6-inch sewer main and approximately 1,050 feet of 8-inch main with 12-inch PVC sewer pipe. Work shall begin at the sewer manhole in front of Delalio Elementary School, TC-1500, and end at the sewer manhole southeast of Building TC-1141. Work shall include repair/replacement of six manholes along the existing lines.
 - 3. At Brewster Boulevard Main Gate areas, replace approximately 400 feet of 12-inch sewer main along Brewster Boulevard from manhole 848L through manhole 847L to manhole 275A with PVC pipe and replace 2,000 feet of 15-inch sewer main from manhole 275A through manholes 276A, 27A, 278A, 279 to manhole 280A with PVC pipe. Work shall repair/replacement of eight manholes along the existing line.
 - 4. In Midway Park, replace approximately 350 feet of 8-inch sewer main from manhole 598L at MEQ LCH 1408 to manhole 978L at MEQ 1509 and approximatley 150 feet of 10-inch sewer main from manhole 978L to manhole 979L at MEQ 1511. Work shall include repair/replacement of four manholes along the existing line.
 - 5. At MCAS, New River, replace approximately 1100 feet of 8-inch sewer main beginning at manhole A-7.6L located southeast of MEQ AS-1173 and ending at manhole A-7L southwest pump station AS-1001. Work shall include repair/replacement of seven manholes along the existing line.
 - 6. At MCAS, New River replace approximately 700 feet of 6-inch and 8-inch sewer main with 6-inch and 8-inch PVC beginning at manhole A-3.9L located southwest of MEQ 1257 and ending at manhole A-3.7L located west of MEQ 1269. Work shall include repair/replacement of three sewer manholes and replacement of laterals on the sewer main to be replaced.

Justification: Existing lines leak, fail, and require frequent repairs.

Estimated Cost: \$218,000 \$245,447



4280 MAIN 0 1 JCT 1986

From: Commanding General, Marine Corps Base, Camp Lejeune To: Commandant of the Marine Corps (Code LFF-2)

Sub.i: SUPPLEMENTAL M2/R2 PROJECTS FY-87 AND FY-88

Encl: (1) M2 Project LE703MS, Replace PCB Contaminated Transformers (Basewide)

(2) M2 Project LE704MS, Repair Interior/Exterior Bldg 2615

(3) M2 Project LE705MS, Repair Interior/Exterior Warehouses 106, 107, 226, 408 and 509

(4) R2 Project LE7100RS, Improvements to Warehouses 106, 107, 226, 408 and 509

(5) M2 Project LE706MS, Replace Piping Insulation On Dual Temperature and Chill Water Lines (HP-100 Area and HP-500 Area Barracks)

(6) M2 Project LE707MS, Replace Piping Insulation on Dual Temperature and Chill Water Lines (FC-400 Area Barracks)

(7) M2 Project LE708MS, Replace Steam and Condensate Lines (Mainside)

(8) M2 Project LE709MS, Replace Sewer Main From Montford Point To Knox Trailer Park

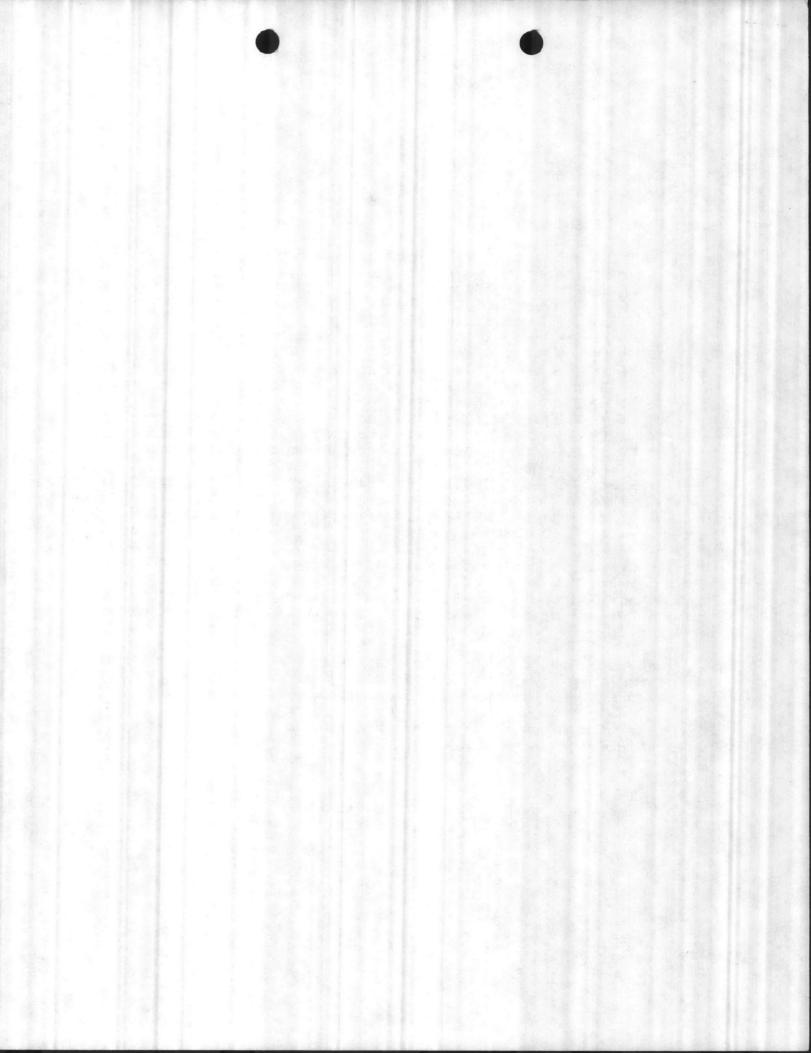
(9) M2 Project LE811MS, Interior/Exterior Repair Bldg 115, 201, 300, 401

- 1. As discussed during the telephone conversation on 24 September 1986, between Mr. Ben Bond of LFF-2 and Greg Shoemaker of Base Maintenance, Marine Corps Base, Camp Lejeune, enclosures (1) through (9) are being forwarded for approval as late submission projects.
- 2. Justification for the immediate need of repairs is outlined in the enclosed 1391 Forms and Scopes of Work. Enclosures (3) and (4) are to be designed and awarded as a single project.
- 3. Point of contact for further information is Greg Shoemaker (919) 451-5796 AV 484-5796.

M. G. LILLEY
By direction

Copy to: PWO

Writer: G. Shoemaker, OPS, X1580 Typist: S. Schmitz, 29 Sep 86



8 Sep 86

Director, Utilities Branch

Director, Operations Branch (Attn: Greg Shoemaker)

PROPOSED M-1 PROJECTS

Encl: (1) List of Projects

1. The list of M-1 projects is forwarded in the enclosure for your use.

G. S. JOHNSON, JR.

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Director, Operations Etnach (Active Cros Shoema) e t

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(1) Life of Preduct

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A NORTH CORR.

LIST OF PROJECTS

1. Bldg 20

Paint exterior of building.

b. Paint spiractors and associating piping.

Block up interior door of Chlorine Room identified as a hazard by PMU.

AS-110 -

Paint spiractors.

Paint filter piping.

1NT PAINTER 0.0
85-6326

X 3. Bldq 22

NO a. Paint basement/digestor tunnel.

4. TT-39A

Replace existing corrugated asbestos sheathing.

TT-38 NO X 5.

a. Replace existing doors and windows.

b. Replace existing rollup doors.

V6. TT-35

Replace existing doors and windows.

b. Point up exterior brick work.

NO 7. TC-563

a. Paint exterior.

b. Replace doors and windows.

7022 Te566 V8. TC-567 WRONG BLOG \$

a. Replace building.

Demolish:

Filters and spiractors - Bldg TT-38.

b. Wells TT-30 and TT-53. c. Wells M-142^x, M-197^x, M-267^x, M-628^x, M-629^x and M-630^x.

ESTIMATED COST: \$120,000

10. AS-202

a. Move Chlorinator Room to front of Filter Room. Existing room located in back corner stays wet and creates a hazardous condition. Existing chlorinators must be moved and a new exhaust



fan installed.

ESTIMATED COST: \$35,000

X 12. 1700

MO)

a. Remove asbestos from ash hoppers (chain and wall hopper); 14" steam distribution header; aux. steam loop line; boilers 1-4 steam header from nonreturn to distribution header; area distribution steam lines from 14 steam distribution header to ground floor (to include Area 1, 2, 3, line, Area 4 and 5 line, industrial line and industrial bypass line) boiler feedwater line from feedwater pump header to drop on #1 boiler; steam line for plant master control located beneath main header.

ESTIMATED COST: \$200,000

NOD 1

13. BA-138

a. Replace existing meters:

Replace raw water meter (receiver, transmitter, orifice

plate).

Replace delivered water meter (transmitter and receiver).
Replace reservoir meter (transmitter and receiver).
Replace elevated tank meter (transmitter and receiver) Trans-

mitter should work on 4-20 MA.

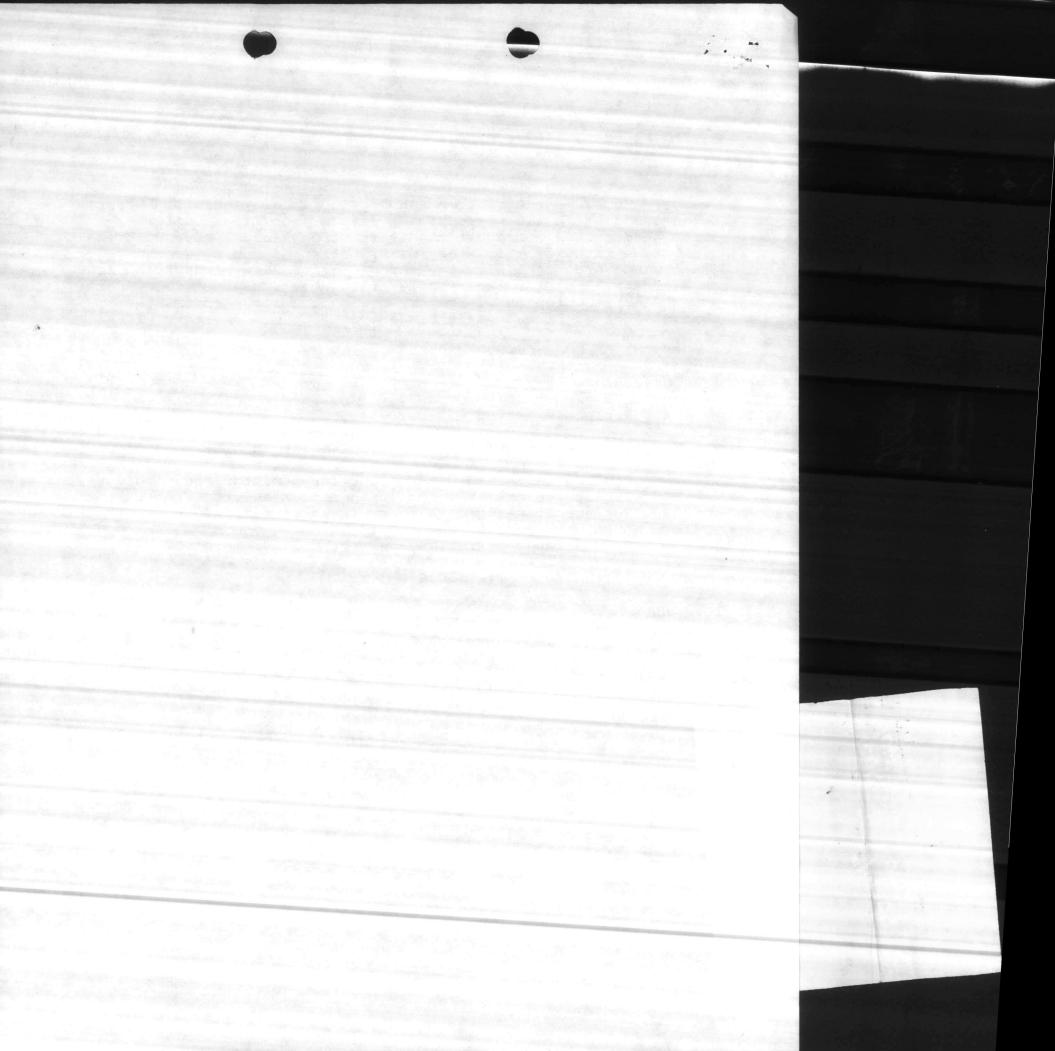
Reduce range on raw and delivered water meters.

ESTIMATED COST: \$30,000

14. SBA-160

Replace parshall flume and meter, Funded '

ESTIMATED COST: \$20,000



fan installed.

ESTIMATED COST: \$35,000

X 12. 1700

a. Remove asbestos from ash hoppers (chain and wall hopper); 14" steam distribution header; aux. steam loop line; boilers 1-4 steam header from nonreturn to distribution header; area distribution steam lines from 14 steam distribution header to ground floor (to include Area 1, 2, 3, line, Area 4 and 5 line, industrial line and industrial bypass line) boiler feedwater line from feedwater pump header to drop on #1 boiler; steam line for plant master control located beneath main header.

ESTIMATED COST: \$200,000

NOT 13. BA-138

a. Replace existing meters:

Replace raw water meter (receiver, transmitter, orifice

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Replace delivered water meter (transmitter and receiver).

Replace reservoir meter (transmitter and receiver).

Replace elevated tank meter (transmitter and receiver) Transmitter should work on 4-20 MA.

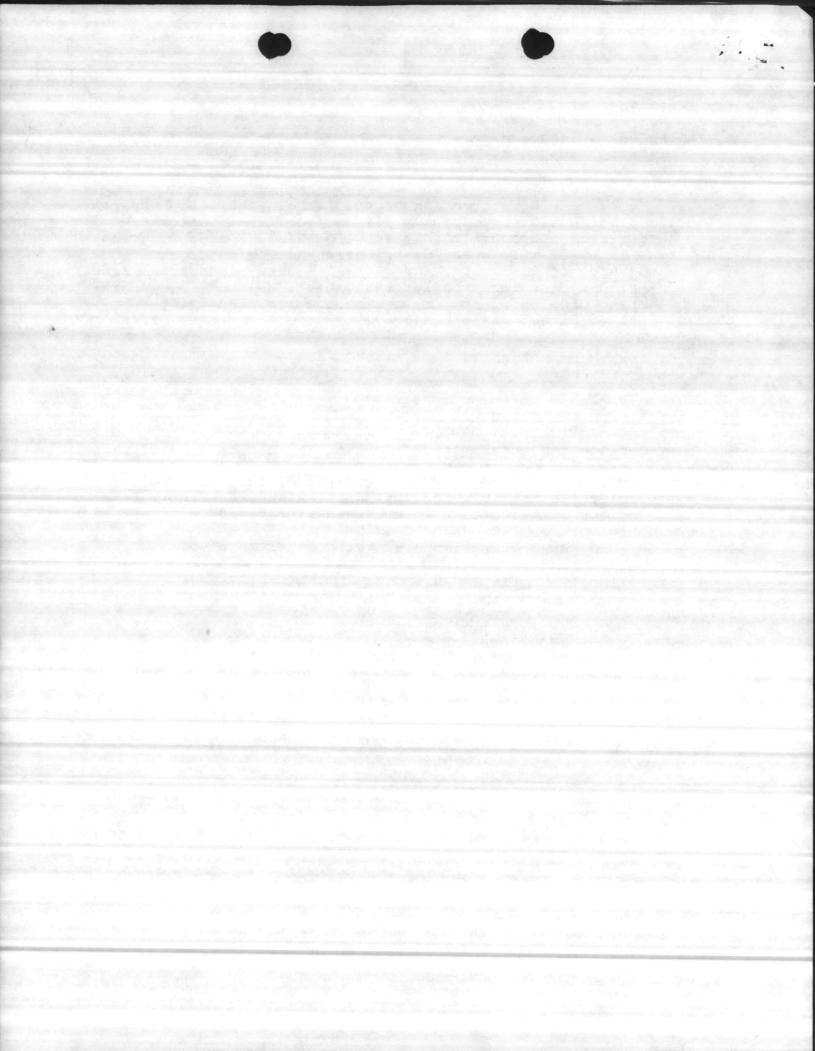
Reduce range on raw and delivered water meters.

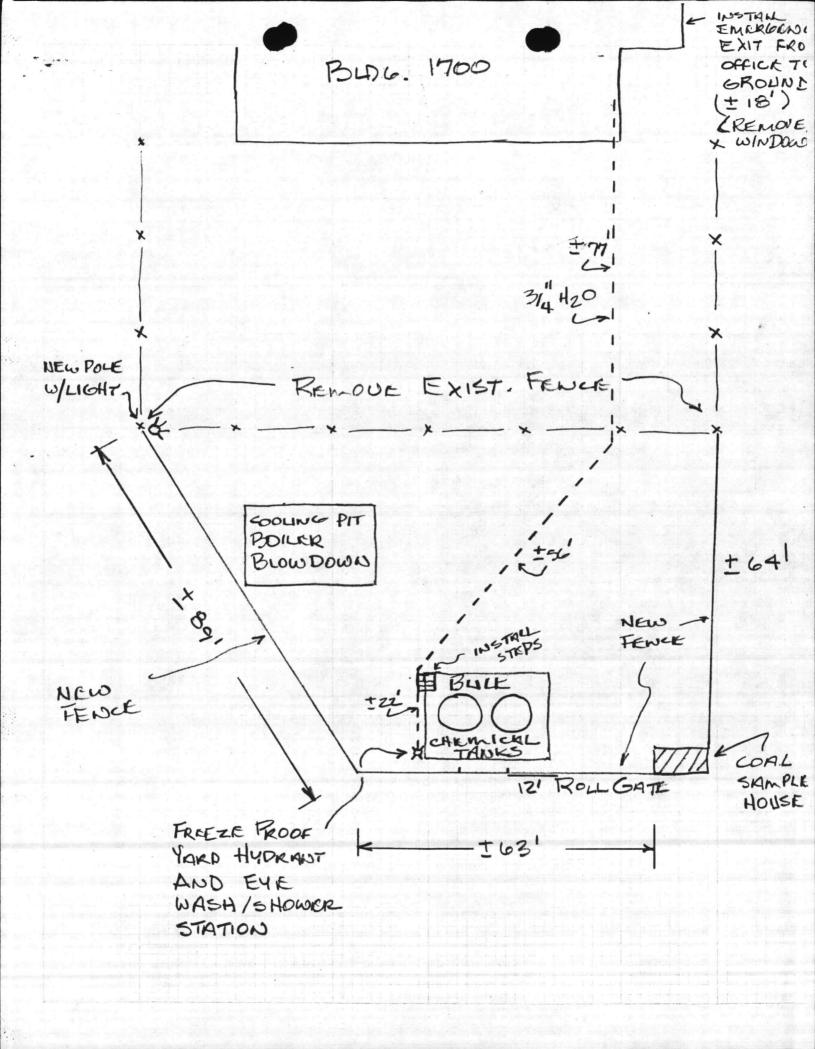
ESTIMATED COST: \$30,000

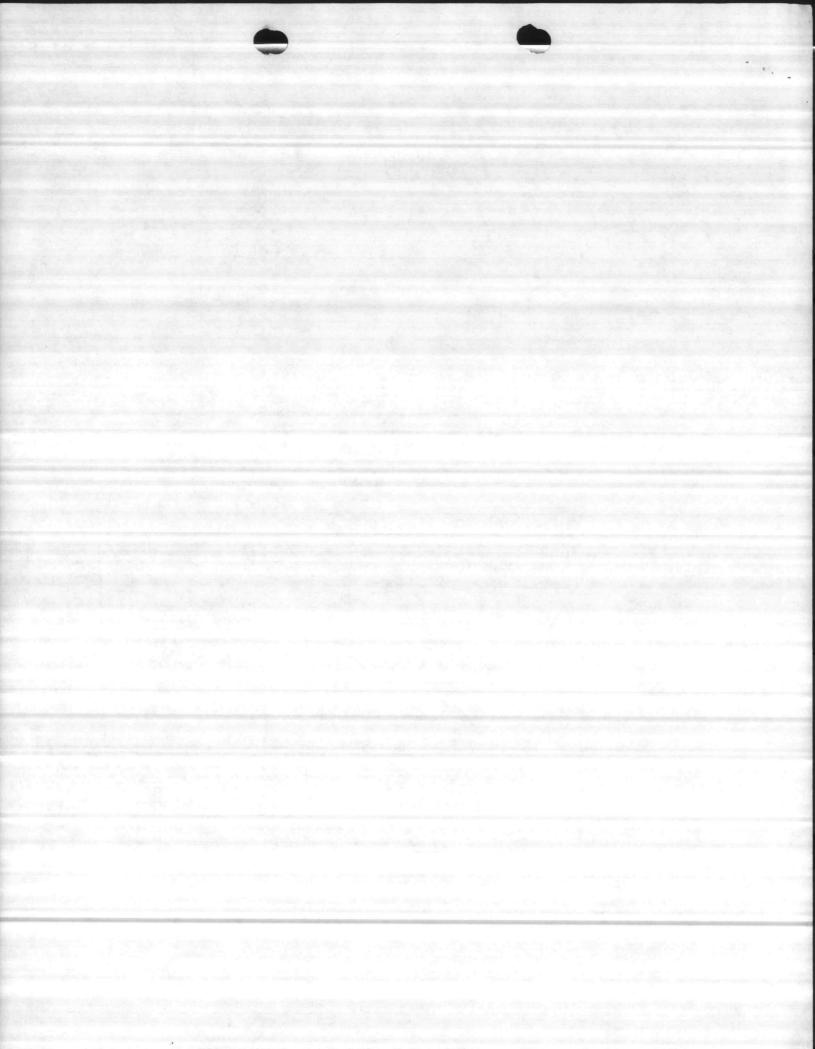
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Replace parshall flume and meter, Fundad

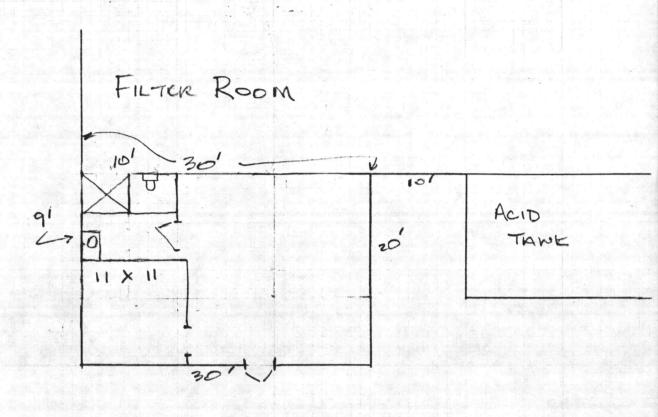
ESTIMATED COST: \$20,000



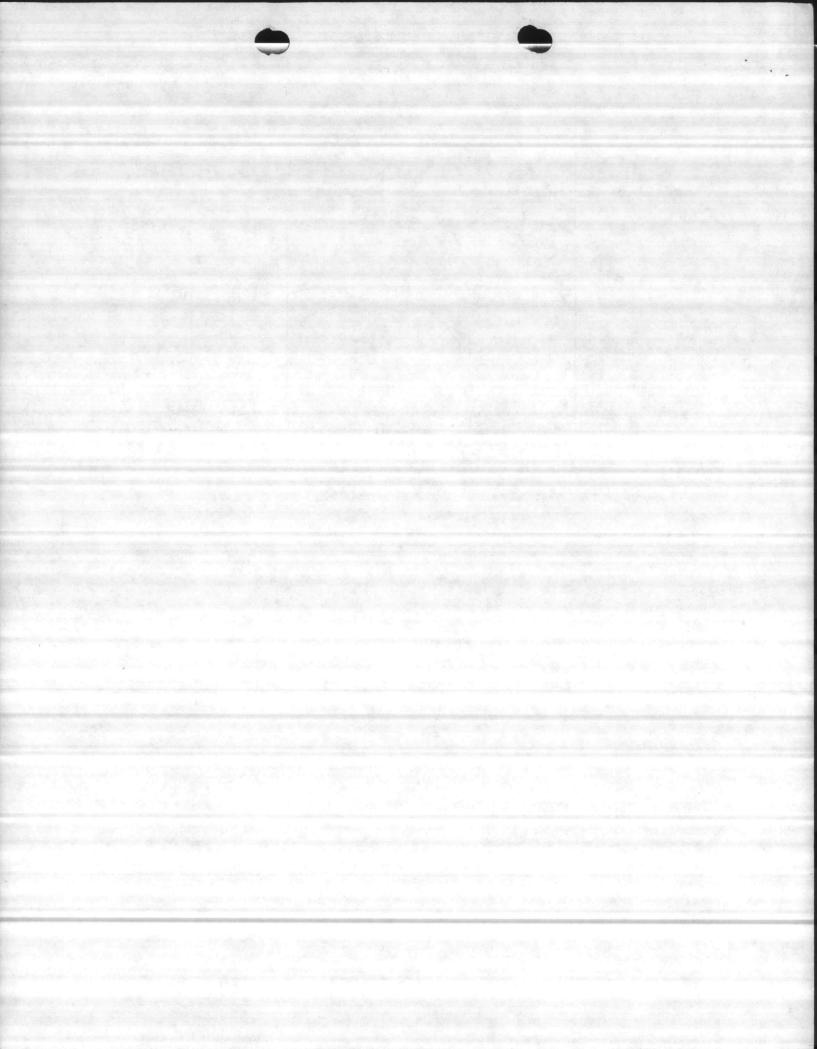


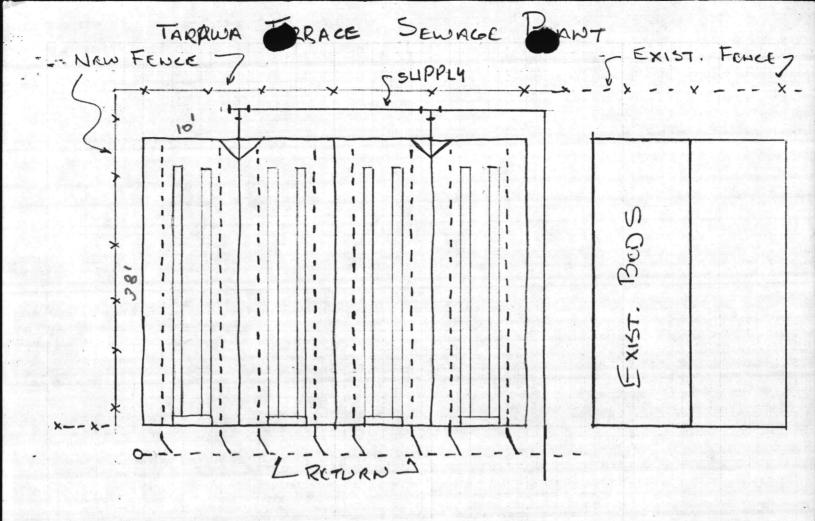


ADDITO 10 BLOG. 67



MATCH BRICK TO EXISTING BLDG.





INSTALL FOUR NEW SLUDGE DRYING BEI

