M1 & M2

18 Dec 84

PROJECTS REQUESTED

1. Replace two water softener tanks and solematic valve AS-4151. installed 1976

2. Replace two water softener tanks and solematic valves G-650. Installed 1969.

3. Replace two water softeners complete with controls, Motors, Brine Tank RR-15. Boilers are 1955 models. I don't remember softeners being replaced.

4. Paint inside on Building M-230.

5. " " " " M-625

6. Replace (3) Boilers & related piping & valves @ Bldg TT-48 School - (See Attached sheet for other information) (Nos 25, 26 & 27)

7. Replace (2) Boilers @ LCH-4014 (No. 17+18)

8. Replace (1) Boiler @ AS-3502 (No. 8)

9. Replace (1) Boiler @ LCH-4022 (No. 19)

10. Replace (2) Boilers @ 730 (No. 6+7)

11. Replace 1 Boiler @ TT-2457 (No. 66)

12. " 4 Feedwater Pumps/Steam Trusher & Controls Bldg 1700

13. Paint inside on Bldg BB-9 (Bldg Only) No Equip -

14. " " " " RR-15 " "

15. " " " " BA-106 High Pressure Work -

16.

4
25
8
200
30
2101

~~expansion tank, Dist valve chain, oil taken to tank,~~

To include oil liner to tank, first valve on discharge + suction lines, expansion tank, condensate receiver + Pump, make-up feeder valve, + back flow preventer valve —

5ND LANTDIV 9-4730/6 (Rev. 8/68)
Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 27 NOV. 1984

ACTIVITY: MCB CL

BUILDING NO: LCH-4014 BOILER NO. 17 & 18

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

☐ 5 or more years ☒ (2) years

The following corrective action is recommended:

BOILERS ARE OVER 39 YRS. OLD. WATER SIDE HAVE HEAVY SCALE AND OXYGEN PITTING ON TUBES. DUE TO THE AGE AN CONDITION THEY WILL HAVE TO BE RETUBED OR REPLACED IN THE NEAR FUTURE.

RECOMMEND A SURVEY BE RUN ON BLDG. TO FIND OUT HEAT LOAD AN POSSIBLE INSTALL ONLY ONE BOILER.

BOILERS #17 & 18

MFG. KEWANEE, CAPACITY 4,000 LB/HR.

STEAM BOILER, YEAR 1945

5ND LANTDIV 9-4730/6 (Rev. 8/68)
Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 27 NOV. 1984

ACTIVITY: MCAS (H)

BUILDING NO: AS-3502 BOILER NO. 8

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

☐ 5 or more years ☒ (2) years

The following corrective action is recommended:

BOILER RUSTED OUT AT SETTING AND OUTER CASING WATER SIDE MEDIUM SCALE AND OXYGEN PITTING ON TUBES, RECOMMEND REPLACING BOILER AND SETTING OF FLOOR AT LEAST 6"

MFG. KEWANEE, CAPACITY 468 LB/HR. [redacted]
STEAM BOILER, YEAR 1965

5ND LANTDIV 9-4730/6 (Rev. 8/68)
Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 27 NOV. 1984

ACTIVITY: MCBCL

BUILDING NO: LCH-4022 BOILER NO. 19

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

[ ] 5 or more years [X] (2) years

The following corrective action is recommended:

BOILER HAS A OBSOLETE BURNER AND POOR EFFICIENCY WATER SIDES HAS OXYGEN PITTING AN SCALE, REQUIRING REPLACEMENT OF TUBES IN THE NEAR FUTURE DUE TO THE CONDITION OF BOILER, IT SHOULD BE REPLACED

MFG. FITZGIBBONS, CAPACITY 300,000 BTU/HR. YEAR 1956, HOT WATER BOILER

5ND LANTDIV 9-4730/6 (Rev. 8/68)
Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 27 NOV. 1984

ACTIVITY: MCBCL

BUILDING NO: 730 BOILER NO. 6 & 7

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

☐ 5 or more years ☒ (2) years

The following corrective action is recommended:

BOILERS # 6 & 7 ARE ABOUT 40 YRS OLD. WATER SIDES ARE IN POOR CONDITION DUE TO OXYGEN PITTING AND SCALE. ONE TUBE DEVELOPED A LEAK DUE TO PITTING. RECOMMEND REPLACING BOILERS AND SUCTION LINE FROM FUEL OIL TANK.

MFG. INTERNATIONAL BOILER WORKS,
CAPACITY 700,000 BTU/HR. EACH.
YEAR-1945 HOT WATER BOILER.

5ND LANTDIV 9-4730/6 (Rev. 8/68)
Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 27 NOV. 1984

ACTIVITY: MCBCL

BUILDING NO: TT- 2457 BOILER NO. 66

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

☐ 5 or more years ☒ (2 years

The following corrective action is recommended:

Boiler is over 30 years old and in poor condition. Water side has heavy scale an pitting, tubes will have to be replaced in the near future. Due to the condition of Boiler, it is recommend that a new Boiler be installed.

Boiler # 66
MFG - Spencer, capacity 1,000 LB/HR.
Steam Boiler

M-1 CONTRACT

REPLACE APPROXIMATELY 700 linear LINEAR FEET
OF CHAIN LINK FENCE/FABRIC. & posts, No. NONE ?
GATE 2 FABRIC ONLY ?. SIZE OF: INCLUDE 3 STRAN BARB WIRE 700' EA
HEIGHT OF FABRIC? 6'

JUSTIFICATION: EXISTING FABRIC IS BEYOND ECONOMICAL REPAIR AND SHOULD BE REPLACED.

Proj Title: SBA-160

Cost 2,000

DEPARTMENT OF THE NAVY
OFFICER IN CHARGE OF CONSTRUCTION
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS
CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY REFER TO:
JAX/70/WGG/sel
N62470-81-C-1639
5 December 1984

From: Resident Officer in Charge of Construction, Jacksonville, NC Area
To: Assistant Chief of Staff, Facilities
Via: Base Maintenance Officer (Attn: G. S. Johnson)

Subj: CUSTOMER CHANGE ORDER REQUEST NO. 1 FOR CONTRACT N62470-81-C-1639, COMBAT VEHICLE MAINTENANCE SHOPS, DATED 19 NOV 84

Ref: (a) Fonecon of 3 Dec 84 btwn ENS Grip, AROICC, and J. Haste, Code 0525, LANTDIV

1. In accordance with the reference, the subject customer change order request is considered not in contract scope and will not be performed under Contract N62470-81-C-1639.

W. G. Grip
W. G. GRIP
By direction

THIS CANCELS THE WATER LINE TO THE LANDFILL. GSJ

SUBMIT THIS UNDER E.I.P. !

DEPARTMENT OF THE NAVY
OFFICER IN CHARGE OF CONSTRUCTION
RESIDENT OFFICER IN CHARGE OF CONSTRUCTION
NAVAL FACILITIES ENGINEERING COMMAND CONTRACTS
CAMP LEJEUNE, NORTH CAROLINA 28542

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1. In accordance with the reference, the subject customer change order request is considered not in contract scope and will not be performed under Contract N62470-81-C-1639.

W. G. Grip

W. G. GRIP
By direction

4330
MAIN
14 Sep 84

From: Base Maintenance Officer
To: Public Works Officer

Subj: ADDITIONAL M-1 PROJECTS FOR FISCAL YEAR 1985

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

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

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

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

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

J. L. SELLERS
By direction

Blind copy to:
→UtilBr
Writer / Typist GS/ehd
Date Typed 14Sep84
Word Processor Number ___

Blind copy to:

Writer \ Typist

Date Typed

Word Processor Number

File #5C04

WATER TREATMENT - BB-190

It is requested a contract be awarded to run and install new well control cable from Courthouse Bay Water Plant (BB-190) to 5 wells, BB-43, BB-44, BB-220, BB-221, and new well presently under construction (no number).

Note: BB-43 is under contract (Being replaced) and new well (no building no.) is located approximately 100 feet from existing building. Well control cable to be jelly filled, shielded, 20 pair, conductive to 48 volts D.C., control signal lightning protection will be provided on all loops. Well cable to be 22 gauge. Also need to change control boxes at BB-44 and BB-43 to 48 volts - Contractor to install 48 volt DC power supply at BB-190 for well controll.

JUST: Present well control is in telephone system. Problems are constantly being encountered. When telephone system is out of service, it interrupts well control system. Cable has also been cut numerous times increasing loop resistance.

TOTAL ESTIMATED COST: $100,000

Encl (12)

REPLACE SEWAGE FLOW METERS

The below listed effluent meters are obsolete and worn to the point that it would be more economical to replace. Since treatment and sampling is based on flow, it is important that these meters are in operation and giving an accurate reading at all times. Also chlorination is paced with the flow.

Replacement meters should be electronic type with 4 to 20 MA to consist of transmitter and receiver with both recording flow totalizing and chlorinator control capabilities; flow to be measured by velocity in a range of 0.5 to 10 ft/SEC with accuracy of ±2%. Transmitter should be electromagnetic with level bubbler outlet. Meters should include one each at Building TT-35, and TC-563.

TOTAL ESTIMATED COST= 2 meters at $9,000 = $18,000

REPLACE AUXILIARY GASOLINE ENGINE, BLDG TT-38

The auxiliary gasoline engine used to operate water pumps during power outages was installed in 1962. Subject engine is worn to a degree that it can only be started under certain conditions and will run only for very short periods before it loses all compression and will not run. It has been repaired numerous times but will not hold up. It has been determined by mechanics in the Heavy Equipment Shop that it would be more economical to replace than to keep repairing. This engine is down now and should be replaced very quickly and preferably with a diesel engine with gauges, tachometer and safety equipment.

PLEASE EXPEDITE

TOTAL ESTIMATED COST: $6,000

File #5C07

REPAIR WATER WELL HP 615

22 February 1984

This well was drilled in 1942 at a depth of 158 feet and a capacity of 250 GPM. The Armco iron screens used in this well have either collapsed or worn to a point that it will not hold the sand and gravel back and allowed the inner casing to fill up with sand and gravel.

This well can and should be repaired by replacing the screens and gravel wall instead of complete well replacement. The Hadnot Point water treatment system has a 35 well field supply. Presently there are nine down to be replaced and one for repairs. With all these wells being out leaves this system in a situation where we can barely meet the demand with all wells running all the time.

PLEASE EXPEDITE!

TOTAL ESTIMATED PRICE: $ 75,000

W. R. PRICE

AS-110

1. Replace existing raw and delivered water transmitter, receiver and totalizers. Remove existing orifice plate in delivered water header and install one annubar in delivered and one annubar in raw water headers. Contract should include new transmitters, receivers with integrator in GPM and 24 hour chart recorders. Receivers to be 4-20' Ma output.

JUSTIFICATION: Existing raw water meter was a propeller type. It has been replaced two times due to mechanical malfunctions. The existing delivered water meter uses an orifice plate for primary device. It needs to be removed due to high head loss on distribution system. Only other alternative to annubar would be venturi vault which would be expensive and existing delivered water line would preclude installation.

TOTAL ESTIMATED COST: $ 15,000

REPLACE BOILER - BUILDING TC-563

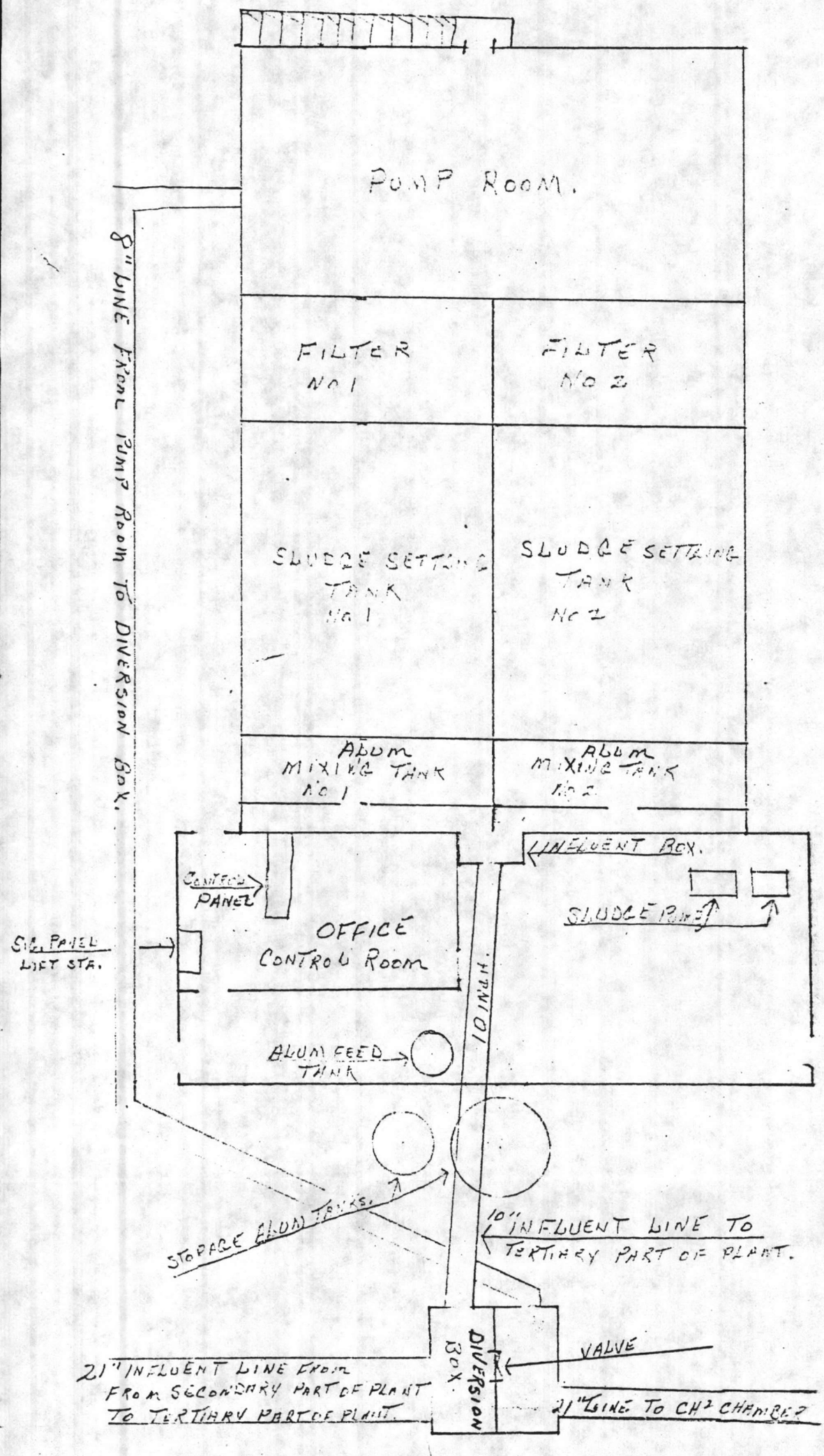
The existing boiler has worn out in service to a point that it would be more economical to replace than to repair. This boiler should be replaced with a new modern type approximately the same heating capacity with a life expectancy of at least fifteen years.

TOTAL COST ESTIMATED = $25,000

REPLACE INFLUENT LINE, TC-563

Project is located at Camp Geiger Sewage Plant. Project is to install larger pipe from diversion box to influent box on tertiary part of plant. At present the line is a ten inch and will not take care of high flows that come through plant at times. The operator has to open valve in diversion box and let a percentage of flow bypass the tertiary part of plant. A larger line (20 inch) should be installed from diversion box to influent box of tertiary part of plant. See attached sketch.

Estimated Price: $25,000


PUMP ROOM.
FILTER NO 1
FILTER NO 2
SLUDGE SETTING TANK NO 1
SLUDGE SETTING TANK NO 2
ALUM MIXING TANK NO 1
ALUM MIXING TANK NO 2
8" LINE FROM PUMP ROOM TO DIVERSION BOX.
INFLUENT BOX.
CONTROL PANEL
SLUDGE PUMP
OFFICE CONTROL ROOM
SL. PANEL LIFT STA.
10" INFLUENT
ALUM FEED TANK
STORAGE ALUM TANKS.
10" INFLUENT LINE TO TERTIARY PART OF PLANT.
DIVERSION BOX.
VALVE
21" INFLUENT LINE FROM FROM SECONDARY PART OF PLANT TO TERTIARY PART OF PLANT.
21" LINE TO CH2 CHAMBER

File #5C11

SUGGESTED PROJECT

Project Title: Replace Makeup Tank at BOQ 2615

Estimated Cost: $15,000

Project Purpose: Replace deteriorated metal tank

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

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

File #5C12

SUGGESTED PROJECT

Project Title: Replace Blowdown Pit and Makeup Tank, BA-106

Estimated Cost: $25,000

Project Purpose: To provide pit for blowdown and plant drainage

Project Description: Replace blowdown pit and drain basin from building. Replace blowdown lines from boilers blowdown valves to pit. Replace continuous blowdown lines from boiler drums to pit. Replace ditch drain line. Replace backwash drain line from water softeners to blowdown pit. Replace condensate receiver and makeup tank to include steam heater with coil and all necessary regulators and controls. Replace piping to feedwater pumps and tank overflow and drain piping.

Justification or Remarks: PIT IS BROKEN & PIPES ARE DETERIORATED

SUGGESTED PROJECT

Project Title: Replace #50 Boiler at A-1

Estimated Cost: $80,000

Project Purpose: Replace deteriorated boiler

Project Description: Boiler to include burner, controls, safety valves, non-return, blowdown valves, feedwater controls, feedwater pump, oil pump with strainer and oil meter. Replace condensate receiver tank, pump and motor in pit. Replace piping from condensate pump to makeup tank. Replace makeup tank and piping to feedwater pump.

Justification or Remarks: SEE ATTACHED

5ND LANTDIV 9-4730/6 (Rev. 8/68)
Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 15 JUNE 84

ACTIVITY: MCB CL

BUILDING NO: A-1 BOILER NO. 50

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

☐ 5 or more years ☐ ( ) years

The following corrective action is recommended:

SUBJECT BOILER IS OVER 26 YRS. OLD, TUBES ARE PITTED AND SCALED BUILD UP. WATER SIDES WERE CHEMICALLY CLEANED IN 1982. DUE TO THE AGE AND CONDITION OF BOILER, IT IS RECOMMENDED THAT BOILER IS RETUBED OR REPLACED IN THE NEAR FUTURE.

BOILER INSPECTOR
Tom Lanier

11300
MAIN
15 Jun 84

From: Director, Utilities Branch
To: Director, Operations Branch

Subj: FY 85 MAINTENANCE, REPAIR AND NEW WORK REQUIREMENTS

Encl: * (1) Replace Well Control Cable, BB-190
* (2) Replace Sewage Flow Meters, TT-35 and TC-563
* (3) Replace Auxiliary Engine, TT-38
* (4) Replace Water Well, HP-615
5C20 —→ (5) Paint Interior of Bldg RR-85
5C15 —→ (6) Paint Interior of Bldg AS-110
* (7) Replace Raw and Treated Water Meters, AS-110
DELETE —— (8) Install Three Drying Beds, TC-563 (PICKED UP 84 ZZ EXPANSION)
(9) Install Four Drying Beds, TT-35
* (10) Replace Boiler No. 82, TC-563
* (11) Replace Influent Line, TC-563
5C4 —— (12) Paint Water Tanks, Basewide
(13) Enclose Detention Tank, RR-85 and BB-190 (SECURITY REQMTS)
5C21 —— (14) Paint BB-9 (Interior and Exterior)
(15) Install Bulk Chlorine Tanks, TC-563, TT-35, HP-20
5C21 —— (16) Paint Interior BA-106
* (17) Replace Makeupp Tank, PP-2615
5C15 —— (18) Paint North Exterior and Stacks, AS-4151
* (19) Replace Blowdown Pit and Makeup Tank, BA-106
* (20) Replace Boiler No. 50, A-1

1. It is requested that plans and specifications be prepared to accomplish contract work outlined in enclosures (1) through (20).

2. Additional information is available from Utilities' personnel as required.

G. S. JOHNSON, JR.

WATER TREATMENT - BB-190

It is requested a contract be awarded to run and install new well control cable from Courthouse Bay Water Plant (BB-190) to 5 wells, BB-43, BB-44, BB-220, BB-221, and new well presently under construction (no number).

Note: BB-43 is under contract (Being replaced) and new well (no building no.) is located approximately 100 feet from existing building. Well control cable to be jelly filled, shielded, 20 pair, conductive to 48 volts D.C., control signal lightning protection will be provided on all loops. Well cable to be 22 gauge. Also need to change control boxes at BB-44 and BB-43 to 48 volts - Contractor to install 48 volt DC power supply at BB-190 for well controll.

JUST: Present well control is in telephone system. Problems are constantly being encountered. When telephone system is out of service, it interrupts well control system. Cable has also been cut numerous times increasing loop resistance.

TOTAL ESTIMATED COST: $100,000

ENCL (1)

REPLACE SEWAGE FLOW METERS

The below listed effluent meters are obsolete and worn to the point that it would be more economical to replace. Since treatment and sampling is based on flow, it is important that these meters are in operation and giving an accurate reading at all times. Also chlorination is paced with the flow.

Replacement meters should be electronic type with 4 to 20 MA to consist of transmitter and receiver with both recording flow totalizing and chlorinator control capabilities; flow to be measured by velocity in a range of 0.5 to 10 ft/SEC with accuracy of ±2%. Transmitter should be electromagnetic with level bubbler outlet. Meters should include one each at Building TT-35, and TC-563.

TOTAL ESTIMATED COST= 2 meters at $9,000 = $18,000

Encl (2)

REPLACE AUXILIARY GASOLINE ENGINE, BLDG TT-38

The auxiliary gasoline engine used to operate water pumps during power outages was installed in 1962. Subject engine is worn to a degree that it can only be started under certain conditions and will run only for very short periods before it loses all compression and will not run. It has been repaired numerous times but will not hold up. It has been determined by mechanics in the Heavy Equipment Shop that it would be more economical to replace than to keep repairing. This engine is down now and should be replaced very quickly and preferably with a diesel engine with gauges, tachometer and safety equipment.

PLEASE EXPEDITE

TOTAL ESTIMATED COST: $6,000

Encl (3)

REPAIR WATER WELL HP 615

22 February 1984

This well was drilled in 1942 at a depth of 158 feet and a capacity of 250 GPM. The Armco iron screens used in this well have either collapsed or worn to a point that it will not hold the sand and gravel back and allowed the inner casing to fill up with sand and gravel.

This well can and should be repaired by replacing the screens and gravel wall instead of complete well replacement. The Hadnot Point water treatment system has a 35 well field supply. Presently there are nine down to be replaced and one for repairs. With all these wells being out leaves this system in a situation where we can barely meet the demand with all wells running all the time.

PLEASE EXPEDITE!

TOTAL ESTIMATED PRICE: $ 95,000

W. R. PRICE

Encl (4)

PAINT INTERIOR OF BUILDING RR-8

Procure contract to paint interior of building to include walls and ceiling. All surfaces should be cleaned and free of rust and scale.

TOTAL ESTIMATED COST = $2,000

ENCL (5)

PAINT INTERIOR OF BUILDING AS 410

Procure contract to clean and paint inside building and equipment as follows:

a. Pipe gallery including pipes, valves and walls.
b. Filter room walls and ceiling.
c. Lime and pumping room walls and ceiling.
d. Filter effluent line outside building.
e. Lime Storage room walls and ceiling.

All surfaces should be cleaned metal surface free of rust and scale.

TOTAL ESTIMATED COST = $5,000

ENCL (6)

1. Replace existing raw and delivered water transmitter, receiver and totalizers. Remove existing orifice plate in delivered water header and install one annubar in delivered and one annubar in raw water headers. Contract should include new transmitters, receivers with integrator in GPM and 24 hour chart recorders. Receivers to be 4-20' Ma output.

JUSTIFICATION: Existing raw water meter was a propeller type. It has been replaced two times due to mechanical malfunctions. The existing delivered water meter uses an orifice plate for primary device. It needs to be removed due to high head loss on distribution system. Only other alternative to annubar would be venturi vault which would be expensive and existing delivered water line would preclude installation.

TOTAL ESTIMATED COST: $ 15,000

ENCL (9)

IN[illegible]ALL SLUDGE DRYING BEDS - BLDG [illegible]-563

Install three additional sludge drying beds. Due to increased flow and sludge production, the eight existing drying beds do not have sufficient capacity to allow the required six week drying time. This results in the sludge having to be removed before it is dry. This type operation operates various problems for the personnel involved in the removal process and violates both state and federal regulations.

Estimated Cost: 3@ $25,000 = $75,000

Enclosure (8)

BLDG. TT-39 - INSTALL ADDITIONAL DRYING BEDS

The existing drying beds do not have sufficient capacity to accept the sludge content from one digester. At the present time, when a digester has to be emptied, a berm has to be erected around drying beds which is a very expensive method.

Four additional drying beds should be installed with a capacity equal to the existing beds; this would eliminate the time consuming and expensive method presently being used.

TOTAL ESTIMATEC COST: = 4 @ $25,000 = $100,000

Encl (9)

(BEDS)

Concrete splash PAD

(8" Concrete Block)

EXISTING WALL

20 x 75'
4D

(8" BLK. WALL)

Concrete Runways for Vehicles

(8" BLK WALL)

Asphalt PAVING

REPLACE BOILER - BUILDING TC-5

The existing boiler has worn out in service to a point that it would be more economical to replace than to repair. This boiler should be replaced with a new modern type approximately the same heating capacity with a life expectancy of at least fifteen years.

TOTAL COST ESTIMATED = $25,000

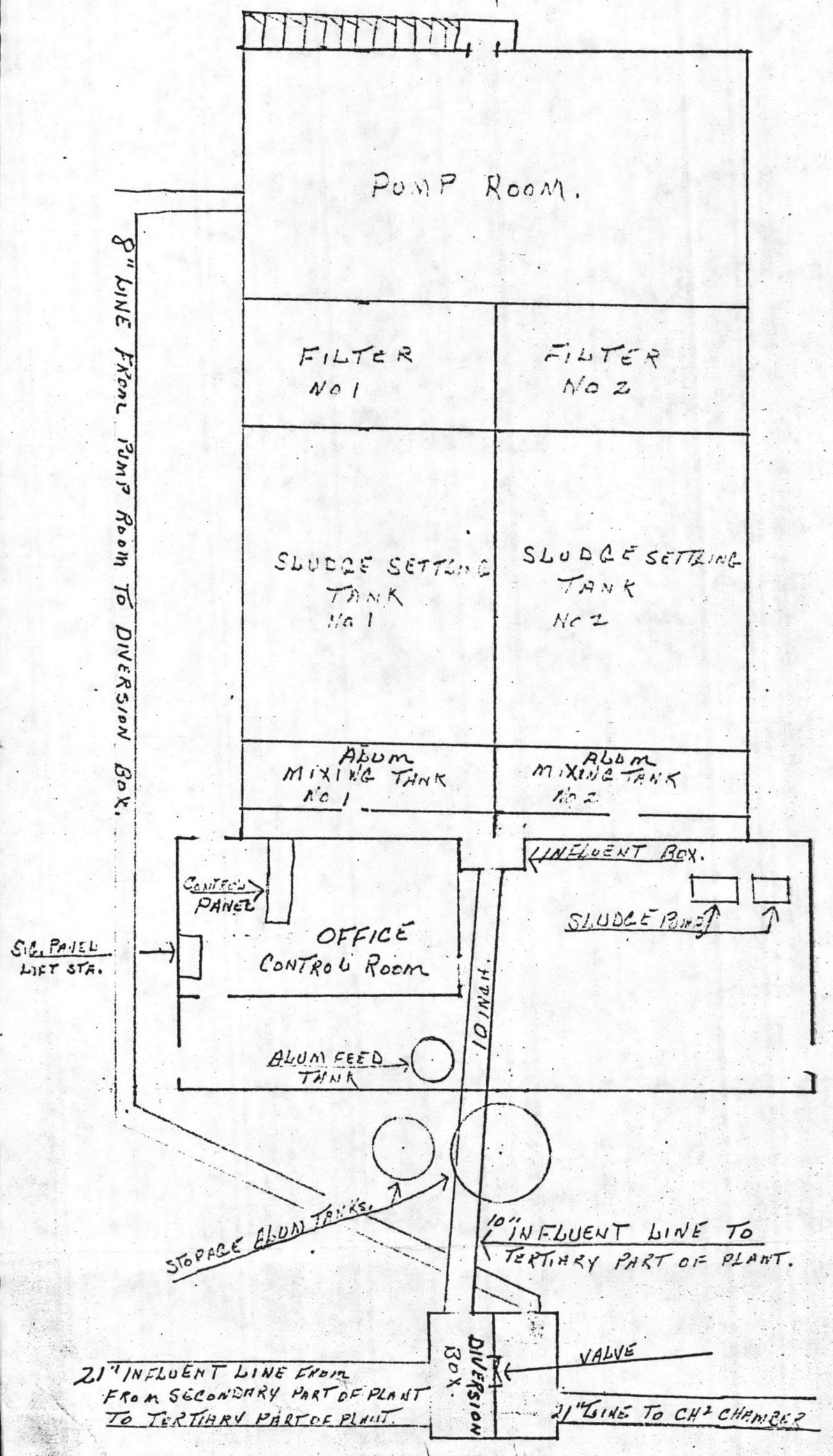
ENCL (10)

REPLACE INFLUENT LINE, TC-563

Project is located at Camp Geiger Sewage Plant. Project is to install larger pipe from diversion box to influent box on tertiary part of plant. At present the line is a ten inch and will not take care of high flows that come through plant at times. The operator has to open valve in diversion box and let a percentage of flow bypass the tertiary part of plant. A larger line (2[redacted] inch) should be installed from diversion box to influent box of tertiary part of plant. See attached sketch.

Estimated Price: $25,000

ENCl (11)


PUMP ROOM.
FILTER NO 1
FILTER NO 2
SLUDGE SETTLING TANK NO 1
SLUDGE SETTLING TANK NO 2
ALUM MIXING TANK NO 1
ALUM MIXING TANK NO 2
8" LINE FROM PUMP ROOM TO DIVERSION BOX.
CONTROL PANEL
OFFICE CONTROL ROOM
SIG. PANEL LIFT STA.
INFLUENT BOX.
SLUDGE PUMP
10" INFLUENT
ALUM FEED TANK
STORAGE ALUM TANKS.
10" INFLUENT LINE TO TERTIARY PART OF PLANT.
DIVERSION BOX.
VALVE
21" INFLUENT LINE FROM FROM SECONDARY PART OF PLANT TO TERTIARY PART OF PLANT.
21" LINE TO CH2 CHAMBER

PAINT WATER TANKS - BASEWIDE

Procure contract to prepare and paint elevated water tanks numbered S-5, S-25, S-1000, SFC-314, S-830, S-2323, S-4004, STT-40, SM-624, STC-606, STC-1070, SAS-310, SAS-4130, SBA-108.

These tanks were painted approximately three years ago but did not hold up. The paint is peeling pretty bad on some and all are faded out and all should be re-painted.

TOTAL ESTIMATED COST = $45,000

Encl (12)

WATER TREATMENT RR-85 & BB-190

It is requested that a contract be awarded to enclose the existing water detention tanks with a building attached to the existing building.

Justification: The existing water dentention tanks were identified on a crime prevention survey directed by the Provost Marshal. These tanks should be enclosed to prevent sabotage.

ESTIMATED COST: $40,000

Encl (13)

SUGGESTED PROJECT

Project Title: Paint Interior and Exterior of Steam Plant (exclude brick finish) BB-9

Estimated Cost: $20,000

Project Purpose: To replace deteriorated paint

Project Description: Paint interior of plant to include boilers, pumps, DA tank and auxiliary equipment. Paint exterior of building to exclude brick finish.

Justification or Remarks: Paint is deteriorated and peeling off.

ENCL (14)

INSTALL EQUIPMENT TO ACCEPT BULK CHLORINE

The Water and Wastewater Section uses an average of 90 lb. of chlorine daily at Bldg. TC-563, 80 lb. daily at TT-35, and 80 lb. daily at Bldg. 20. The chlorine is presently being received in 150 lb. cylinders. This requires the services of 2 men and a truck one half day per week to keep these plants supplied.

Bulk handling equipment should be installed to accept two one-ton cylinders at each of these sites. This would make a better operation and would lower the chances of exposure to the operator and eliminate the hauling by plant personnel. This equipment would consist of scales for two one-ton cylinders with dial indicator having 8000 lb. capacity inside building, concrete pad, two-ton electric hoist on I-beam with shelter to reduce sun exposure.

TOTAL ESTIMATED COST: 3 @ $10,000 = $30,000

Encl (15)

SUGGESTED PROJECT

Project Title: Paint Interior of Steam Plant (BA-106)

Estimated Cost: $8,000

Project Purpose: To replace deteriorated paint on walls, structures, boilers, softeners and auxiliary equipment.

Project Description: Clean and paint interior of steam plant to include all structure, boilers, boiler stacks, softeners, pumps and auxiliary equipment.

Justification or Remarks: Paint is deteriorating and peeling off.

ENC1 (16)

SUGGESTED PROJECT

Project Title: Replace Makeup Tank at BOQ 2615

Estimated Cost: $15,000

Project Purpose: Replace deteriorated metal tank

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

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

(Encl (17))

SUGGESTED PROJECT

Project Title: Paint Exterior Steam Plant AS-4151

Estimated Cost: $5,000

Project Purpose: Paint end of plant deteriorated by exhaust steam run-off.

Project Description: Paint north end of steam plant stained and discolored by exhaust steam run off.

Justification or Remarks: Exhaust steam re-routed to eliminate reoccurrence.

Encl (18)

SUGGESTED PROJECT

Project Title: Replace Blowdown Pit and Makeup Tank, BA-106

Estimated Cost: $25,000

Project Purpose: To provide pit for blowdown and plant drainage

Project Description: Replace blowdown pit and drain basin from building. Replace blowdown lines from boilers blowdown valves to pit. Replace continuous blowdown lines from boiler drums to pit. Replace ditch drain line. Replace backwash drain line from water softeners to blowdown pit. Replace condensate receiver and makeup tank to include steam heater with coil and all necessary regulators and controls. Replace piping to feedwater pumps and tank overflow and drain piping.

Justification or Remarks: PIT IS BROKEN & PIPES ARE DETERIORATED

ENCL (9)

SUGGESTED PROJECT

Project Title: Replace #50 Boiler at A-1

Estimated Cost: $60,000

Project Purpose: Replace deteriorated boiler

Project Description: Boiler to include burner, controls, safety valves, non-return, blowdown valves, feedwater controls, feedwater pump, oil pump with strainer and oil meter. Replace condensate receiver tank, pump and motor in pit. Replace piping from condensate pump to makeup tank. Replace makeup tank and piping to feedwater pump.

Justification or Remarks: SEE ATTACHED

ENCL (20)

5ND LANTDIV 9-4730/6 (Rev. 8/68)
Boiler Inspection - Addendum to NAVFAC 9-11014/41

DATE: 15 JUNE 84

ACTIVITY: MCB CL

BUILDING NO: A-1 BOILER NO. 50

Based on the existing condition and present rate of deterioration, it is estimated that the boiler has a remaining life of

☐ 5 or more years ☐ ( ) years

The following corrective action is recommended:

SUBJECT BOILER IS OVER 26 YRS. OLD, TUBES ARE PITTED AND SCALED BUILD UP. WATER SIDES WERE CHEMICALLY CLEANED IN 1982. DUE TO THE AGE AND CONDITION OF BOILER, IT IS RECOMMENDED THAT BOILER IS RETUBED OR REPLACED IN THE NEAR FUTURE.

BOILER INSPECTOR
Tom Lanier

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

DEPARTMENT OF THE NAVY

Memorandum

DATE: 19 May 1984

FROM: Utilities Systems General Foreman

TO: Director, Utilities Branch

SUBJ: Inadequate Water Distribution System, MCAS, re-submittal of

1. On 18 November 1983 I requested a contract be awarded to study the water distribution systems at MCAS. Subject contract was requested by your office.

2. Recent research by Fire Chief E. Padgett has determined that the contract was never awarded due to insufficient funds.

3. It is requested that another contract be awarded to study the MCAS distribution system. This study is considered to be of the upmost importance due to increased problems with the entire water distribution system at MCAS. The Fire Department is also concerned due to inadequate fire protection for the entire MCAS and Camp Geiger areas. Additional information can be obtained from Chief Padgett.

4. Enclosed please find a copy of the original submittal.

5. Your immediate attention to this matter is sincerely appreciated.

W. R. PRICE

MAIN/DLS/rn
11330
9 May 1984

FIRST ENDORSEMENT on UtilitiesSystemsFore ltr of 19 May 1984

From: Director, Utilities Branch
To: Director, Operations Branch

Subj: Inadequate Water Distribution System, MCAS; submission of

1. Forwarded for action.

D. L. SOUTHERLAND
Acting

☆U.S. GOVERNMENT PRINTING OFFICE: 1982-505-106:8483

18 November 1983

Utilities Systems Foreman

Director, Utilities Branch

Inadequate Water Distribution System, Marine Corps Air Station (Helicopter)

1. It is requested that a contract be awarded to study and submit recommendation on the distribution system at Marine Corps Air Station.

2. There are presently two areas of concern and they are as follows:

a. The MOQ area located at the far end of the air strip. This area is presently served by an 8 inch dead end distribution line. There is constantly a problem with stagnant water and low water pressure. There is provided an emergency pumping station, MOQ 2003, with a 300,000 gallon ground storage reservoir for emergency fire protection. This reservoir is considered adequate for its designed purpose but due to no water turnover, it is not considered to be an available potable distribution source. We are presently running some water to waste, by constantly overflowing the reservoir, to maintain the minimum chlorine residual.

b. There is presently an 8 inch water line feeding the whole Camp Geiger area from Marine Corps Air Station. The present system is an operational nightmare. If the demand is not met from Marine Corps Air Station, it is assisted by TC-501 pumping station at Camp Geiger. There is presently 872,000 gallons of ground water storage there. The present operation consists of trying to maintain an adequate flow from MCAS through the 8" water line. It too much is delivered through this line, the nearest elevated tank at Camp Geiger TC-1070 will overflow, while the other elevated tank, TC6606 declines. There are no altitude valves installed on either tank. The controls for the distribution pumps located in TC-501. are controlled from TC-606 elevated tank. Presently the demand is satisfied in the following manner. Water is pumped to Camp Geiger at a rate not to overflow TC-1070 and as TC-606 falls, the distribution pumps located in TC-501 automatically maintain the difference in the delivered waeer demand.

c. The only method of filling the 872,000 gallon reservoir is through a gate valve valve located in the distribution line at TC-501. If the valve is opened too much, the water being pumped from TC-501 will recirculate throughtthe distribution line and return to the reservoir. As this occurs, the pressure on the distribution system continues to fall since no water is being delivered to the system except from MCAS. As you try to maintain the demand by delivering more water from MCAS,

MAIN/RW/dhd
4330
3 February 1984

From: Base Maintenance Officer
To: Public Works Officer

Subj: Additional M-1 Project for Fiscal Year 1984

Encl: (1) One Additional M-1 Project for Fiscal Year 1984

1. In an effort to provide greater heating capabilities, the following M-1 project is requested to be prepared for award in Fiscal Year 1984:

File Number	Description	
4C35	Replace Hot Water Boiler No. 59 and Oil Tank, Bldg. 738	$25,000

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

F. E. CONE
By direction

Blind copy to:
Dir,UtilBr

PROPOSED M-1 PROJECT File # 4C35

LOCATION(S): Marine Corps base, Camp Lejeune, North Carolina DATE: 3 February 1984

PROJECT TITLE Replace Hot Water Boiler No. 59 and Oil Tank, Bldg. 738

ESTIMATED COST: $25,000

PROJECT PURPOSE: To upgrade boiler system

PROJECT DESCRIPTION: Replace hot water boiler complete with expansion tank, associated piping and valves. Replace oil tank associated piping and filters. Also design boiler for the additional space to be heated.

REMARKS: Existing boiler is over 30 years old and its capacity is not sufficient to heat the additional garage area that has recently been added.

CONTACT: F. E. CONE PHONE: 1580 ATTACHMENT(S):

Feb 1984

REPLACE AUXILLIARY GASOLINE ENGINE BUILDING TT-38

The auxilliary gasoline engine used to operate water pumps during power outages was installed in 1962. Subject engine is worn to a degree that it can only be started under certain conditions and will run only for very short periods before it loses all compression and will not run. It has been repaired numerous times but will not hold up. It has been determined by mechanics in the Heavy Equipment Shop that it would be more economical to replace then to keep repairing. This engine is down now and should be replaced very quickly and preferably with a diesel engine with gauges, tachometer and safety equipment.

PLEASE EXPEDITE

REPAIR WATER WELL HP 615

22 February 1984

This well was drilled in 1942 at a depth of 158 feet and a capacity of 250 GPM. The Armco iron screens used in this well have either collapsed or worn to a point that it will not hold the sand and gravel back and allowed the inner casing to fill up with sand and gravel.

This well can and should be repaired by replacing the screens and gravel wall instead of complete well replacement. The Hadnot Point water treatment system has a 35 well field supply. Presently there are nine down to be replaced and one for repairs. With all these wells being out leaves this system in a situation where we can barely meet the demand with all wells running all the time.

PLEASE EXPEDITE!

W. R. PRICE

31 Jan 1984

LOCATION: Bldg 738

PROJECT TITLE: Replace Hot Water Boiler NO. 59 AND OIL TANK

ESTIMATED COST: $25,000

PROJECT DESCRIPTION: Replace hot water boiler complete with expansion tank, associated piping and valves. Replace oil tank associated piping and filters. Also design boiler for the additional space to be heated.

JUSTIFICATION: Existing boiler is over 30 years old and its capacity is not sufficient to heat the additional garage area that has recently been added.

MAIN/RW/dhd
4330
24 January 1984

From: Base Maintenance Officer
To: Public Works Officer

Subj: Additional M-1 Projects for Fiscal Year 1984

Encl: (1) Four Additional M-1 Projects for Fiscal Year 1984

1. As a result of a recent review of the BMAR, the following M-1 projects are requested to be prepared for award in Fiscal Year 1984:

File Number	Description
4C28	Reroof Buildings, Basewide; $281,300
4C29	Maintenance Painting, Basewide; $192,000
4C30	Renovate Heating Systems, Buildings 2, 60, 63 and 65; $236,041
4C31	Renovate Heating Systems in BOQs and UOPHs, Buildings 2603, 2604, 2605, 2607, 2609, 2611 and 2613; $243,600

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

F. E. CONE
By direction

Copy to:
→Dir,UtilBr

SUBJECT TO OPNAV 5212-3