T-11300

11300
MAIN

5 Dec 85

Director, Utilities Branch

Director, Operations Branch

M-1 PROJECTS

1. Request the following M-1 project be submitted to Public Works:

Replace electric 2-ton hoist, complete with trolley, controls, safety hooks and latches at Building 20, Hadnot Water Treatment Plant, and Building 22, Hadnot Sewage Treatment Plant.

Existing hoist are worn to the extent they are not reliable. These hoists are used for handling bulk chlorine cylinders, fluoride, valves and other heavy materials.

Estimated Cost: $10,000

D. L. SOUTHERLAND
Acting

Writer: D. Southerland, Util, X5161
Typist: R. Norris, 5 Dec 85

11300
MAIN

4 Nov 85

Director, Utilities Branch

Director, Operations Branch

M-1 PROJECTS

1. Request the following M-1 Projects be submitted to Public Works:

a. Replace Guillotine Gates (6) on Boilers Nos 1-4, Bldg 1700: $90,000.

b. Remove Existing and Provide New Insulation on Deaerating Tanks, Surge Tanks and Associated Piping, Bldg 1700: $98,000.

c. Replace Steam Hot Water Heater/Tank and Flow Meter (summer/winter orifice) Serving the Officers' Club, Bldg 2615: $15,000.

d. Replace Roof Including Joists, Rafters and Trusses, Bldg 2615:(Boiler Room): $80,000.

e. Replace Walls on 15 Drying Beds, BA-160, RR-38, BB-4, M-136: $90,000.

f. Replace Distribution on Trickling Filter, BA-160: $20,000.

g. Replace Auxiliary Generator, BA-160: $12,000.

h. Replace Auxiliary Engine in Pump Room, BB-190: $10,000.

i. Rewire Bldg 21 Pump Room and Provide New Controllers, Starters, Switch Boxes, and Float Controls: $30,000.

j. Paint Interior of BA-138 and Bldg 20.
Paint Exterior of Lime Storage Tank, Bldg 20: $90,000.

k. Replace Boiler No. 9, AS-3504 and Boiler No. ~~31~~, ~~TT2457~~: $38,000.

No 87 ~~2445~~ 2475 Child Care Center

G. S. JOHNSON, JR.

31 - 34 2x55

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

DEPARTMENT OF THE NAVY

Memorandum

DATE: 10 May 1985

FROM: Director, Utilities Branch

TO: Director, Operations Branch

SUBJ: CONTRACT REQUIREMENTS

Encl: (1) Replace seven boilers in the following Buildings: LCH-4014, LCH-4022, PP-730, TT-2457, AS-3502 and CG-1.
(2) Replace water softeners at Building G-650 and AS-4151
(3) Paint interior/exterior at Building M-230, BB-9, M-625, PP-2615, BA-106, 20 and 80 well houses.
(4) Replace existing auxiliary engine in well houses 603, 610 and 613.
(5) Replace sluice gates and filter media in two filters. Replace mixing, feeding automatic control equipment and dust collectors Building 670.
(6) Replace auxiliary engine in pump room with diesel generator, Building RR-85.
(7) Replace existing flow meters, recorders and install level indicator for monitoring water in new overhead tank in the amphibian area, Building BB-190.
(8) Replace temperature controls on ten digestors, Building 22, TT-35, and TC-563.
(9) Construct eight sludge drying bed and sludge transfer pumping station, Building TT-35.
(10) Replace approximately 700 lenear feet of chain link fence, Building SBA-160.
(11) Construct building with shower and eating facilities, Building SBA-160 and RR-92.
(12) Close up door isles between chlorine/chlorinator rooms and other plant areas, Buildings 20, TT-38, M-178, AS-110 and BA-138.
(13) Install visual and audible alarms for explosive gas/insufficient oxygen in digestor rooms, Buildings 22, TT-35, TC-563 and sixty lift stations.
(14) Replace four feedwater pumps, steam turbine and controls Building 1700.
(15) Install treated water line to Sanitary Landfill. Bldg FC 19

1. It is requested that plans and specifications be prepared to accomplish contract work outlined in enclosures (1) through (15).

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

D. L. SOUTHERLAND
By direction

Writer / Typist DBS/plr
Date Typed 10 May 85
Word Processor Number

☆U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

PROJECT WORK

REPLACEMENT OF BOILERS

1.	LCH 4014	#17 and #18 Boiler	Replace with one boiler
2.	LCH 4022	#19 Boiler	
3.	PP 730	#6 and #7 Boiler	
4.	TT 2457	#66 Boiler	
5.	AS 3502	#8 Boiler	
6.	CG 1	#45 Boiler	

SUGGESTED PROJECT

Project Title: Boiler Replacement (See attach sheet)

Estimated Cost: $250,000.00

Project Purpose: Better boiler efficiency and equipment up-date.

Project Description: Replace boilers and auxiliary equipment.

Justification or Remarks: Low boiler efficiency boiler internals worn out in service, foundations rusted out, heavy scale and pitting, all boiler replacements are between 29 and 40 years old. Having trouble procuring parts.

Encl (1)

SUGGESTED PROJECT

Project Title: Replacement of water softeners at AS-4151 and G-650

Estimated Cost: $50,000.00

Project Purpose: Up date equipment and help prevent boiler corrosion.

Project Description: Replace softener tanks, piping, control valves and electrical controller to include brine tank.

Justification or Remarks: Soften water to help prevent boiler corrosion

Existing softeners, piping and controls have deteriorated beyond repair.

Encl (2)

SUGGESTED PROJECT

Project Title: Plant interior/exterior Painting and cleaning; M-230, BB-9 M-625, PP-2615 and BA-106

Estimated Cost: $300,000.00

Project Purpose: Better work enviroment and beautification

Project Description: Clean and paint interior and exterior of building and clean exterior brick work.

Justification or Remarks: Buildings have not been painted in last ten (10) years. Existing paint peeling off.

Encl (3)

Seal the outside walls to eliminate moisture and paint all interior walls and ceiling.

Just: Unsightly - paint peeling off

Cost: $50,000.00

PAINT WELL PUMPS 4-10-85

aint pumps and associated equipment in approximately 80 well houses located throughout he base. Painting should be done during winter months due to condensation in warm eather.

UST: Needed to prolong life of equipment.

otal Estimated Cost: $20,000.00

WELLHOUSES 603, 610 and 613 4-10-85

Replace existing auxilliary engines in well houses 603, 610 and 613 with diesel engines and required accessories.

JUST: Existing engines worn out and obsolete with no parts available.

Cost: $40,000.00

Encl (4)

BUILDING 670 4-10-85

Replace filter media in both No. 1 and No. 2 Filters, and influent sluice gates.

JUST: Existing media is 13 years old and has become too coarse to be effective.

Total Estimated cost: $40,000.00

Encl (4)

The lime mixing, feeding, automatic control equipment and dust collectors have worn out in service. It is obsolete and no parts are available. The feeders and controls do not have sufficient capacity to satisfy the new expansion presently under construction.

This equipment should be replaced with a compatible, modern, long life type with built-in dust arrestors for the mixers and properly sized and paced with raw water meter to satisfy the new expansion presently under construction.

TOTAL ESTIMATED COST $120,000.00

RIFLE RANGE - 85 4-10-85

Replace the auxilliary engine in pump room with a diesel generator with capacity to carry pumps, lights, chemical feeders, and panel board.

JUST: Engine worn out in service. It is obsolete with no parts available.

Total Estimated Cost $125,000.00

Encl (6)

BUILDING BB-190

3-27-85

1. The existing flow meters, recorders and transmitters are obsolete, and no parts are available for repair. These meters serve a very important function and should be replaced with a modern type equipment with a 4-20 MA signal to operate existing functions and without mercury due to the hazardous condition present with mercury.

2. The new elevated tank presently under construction in the Amphibian Troops Area does not include any monitoring system for this tank at the Courthouse Bay Water Treatment plant. Since this tank is filled by a booster pump at the base of the tank, the line pressure at the plant will not indicate the depth of water in the tank. A level indicator should be installed at the tank with monitoring capabilities at the Water Treatment Plant.

TOTAL ESTIMATED COST: $125,000.00

Encl (7)

BUILDING 22, TT-35, AND TC-563

Replace all temperature controls on ten digestors with monitoring capabilities in the office.

JUST: The existing valves and controls are worn out, and obsolete with no parts available.

Estimated Cost: $30,000.00

Encl [8

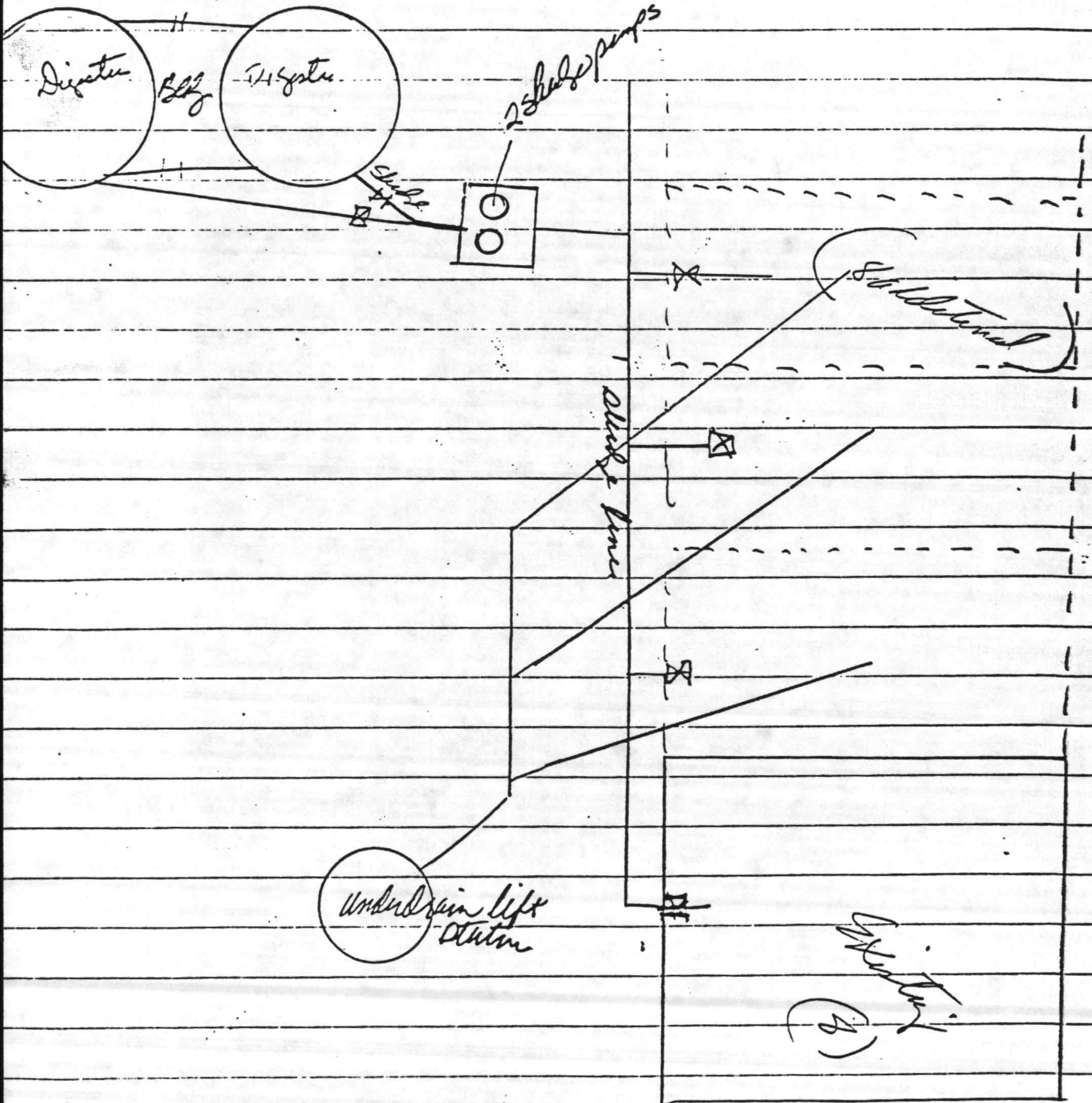
BUILDING TT-35

The existing sludge drying beds do not have sufficient capacity to completely unload one of the 188,000 gallon digestor. Periodically, these digestor tanks have to be emptied for maintenance and repairs. When this happens, a berm has to be erected to contain the contents of the digestor which violates State Regulations and requires an excessive amount of drying time. Eight additional bed and a sludge transfer pumping station as indicated on drawing is needed to comply with both State and Federal Regulations when digestors have to be drained.

7) 8 drying Beds with [illegible]

B) Sludge pump station with 2 progressive cavity or positive displacement pumps

C) Valves and piping



SUGGESTED PROJECT

PROJECT TITLE: Replace chain link fense, SBA-160

Estimated Cost: $2,000

Project Purpose: Security

Project Description: Replace approximately 700 linear feet of chain link fence/ fabric to include posts, three stran barb wire.

Justification or Remarks: Existing fabric is worn beyond economical repair and should be replaced.

Encl (10)

BUILDINGS SBA-160 and RR-92

Provide small building with shower facilities for eating and clean-up at Building SBA-160- and RR-92.

Estimated Cost: ($10,000.00

JUST: To comply with Environmental Health Regulations.

Encl (11)

BUILDINGS 20, TT-38, M-178, AS-110, BA-138

Close up door way between chlorine/chlorinator room and other treatment areas at Buildings 20, TT-38, M-178, AS-110 and BA-138.

JUST: To comply with Environmental Health Regulations.

Estimated Cost: $5,000.00

Encl (12)

BUILDINGS 22, TT-35, and TC-563

1. Install visual and audible alarm for explosive gas and insufficient oxygen content in digestor room at Buildings 22, TT-35 and TC-563, and sixty lift stations. Should have monitoring capabilities outside room entrance and in office on digestor rooms and outside entrance on lift stations.

2. Install properly sized exhaust fan with duct to floor level in digestor rooms and lift stations with explosion proof wiring and fixtures.

3. Install approximately 5000 ft of guard rail around pits and tanks.

JUST: To comply with Environmental Health and Safety Regulations.

Estimated Cost: $100,000.00

Encl (13)

SUGGESTED PROJECT

Project Title. Replace four steam drive feedwater pumps and controls, Building 1700

Project Purpose. To replace existing pumps that are old and deteriorated.

Extimated Cost. $200,000

Project Description. Replace four steam drive feedwater pumps, controls, piping and gauges.

Justification or Remarks. Steam turbines are forty years old and have deteriorated to the extent it is more feasible to replace than repair.

Encl (14)

Potable Water Line to FC-19

The Landfill Building FC-19 presently is tied into the raw water line that runs down Sneads Ferry Road with a booster pump and Hth Pump for chlorination. The Hth pump and system has malfunctioned from time to time resulting in the area being identified as a non-potable water supply. Water has to be trucked in from the Hadnot point area for drinking purposes. New water line would alleviate this problem. The landfill has also had numerous fires in the past. The addition of a water line with fire hydrant would provide fire protection for this area.

Estimated Cost: $5,000.00

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

DEPARTMENT OF THE NAVY

Memorandum

4280
MAIN

DATE: 17 MAY 1985

FROM: Base Maintenance Officer

TO: Public Works Officer

SUBJ: FISCAL YEAR 1986 M-1 PROJECTS

Encl: (1) Project #6C07-Replace Boilers (LCH-4014, LCH-4022, PP-730, TT-2457, AS-3502 and CG-1)
(2) Project #6C08-Replace Water Softners (G-650 and AS-4151)
(3) Project #6C09-Replace auxilary Engines in Well Houses (603, 610 and 613)
(4) Project #6C10-Replace Sluice gates and filter media in two filters, replace mixing, feeding automatic control equipment and Dust collectors (670)
(5) Project #6C11-Replace auxillary engine in Pump room (RR-85)
(6) Project #6C12-Replace Flow meters, Recorders and install Water Level indicator in new overhead tank (BB-190)
(7) Project #6C13-Replace temperture controls on ten Digestors (22, TT-35, and TC-563)
(8) Project #6C14-Replace 700 linear feet of chain link fence SBA-160
(9) Project #6C15-Replace four Feedwater pumps, Steam turbine and Controls (1700)

1. It is requested that plans and specifications be prepared for the subject M-1 Projects.

2. M-1 funds will be provided upon approval of plans and specifications. Point of contact is Mr. G. Johnson,Jr., Base Maintenance Utilities Director, telephone 451-5161.

J. L. Sellers

J. L. SELLERS
By direction

Blind copy to:
Util

☆U.S. GOVERNMENT PRINTING OFFICE: 1985 — 505-012/18049

SUGGESTED PROJECT

Project Title: Boiler Replacement (See attach sheet) (Project # 6CD7

Estimated Cost: $250,000.00

Project Purpose: Better boiler efficiency and equipment up-date.

Project Description: Replace boilers and auxiliary equipment.

Justification or Remarks: Low boiler efficiency boiler internals worn out in service, foundations rusted out, heavy scale and pitting, all boiler replacements are between 29 and 40 years old. Having trouble procuring parts.

Encl (1)

PROJECT WORK

REPLACEMENT OF BOILERS

1.	LCH 4014	#17 and #18 Boiler	Replace with one boiler
2.	LCH 4022	#19 Boiler	
3.	PP 730	#6 and #7 Boiler	
4.	TT 2457	#66 Boiler	
5.	AS 3502	#8 Boiler	
6.	CG 1	#45 Boiler	

SUGGESTED PROJECT

Project Title: Replacement of water softeners at AS-4151 and G-650 (Project # 6CCE

Estimated Cost: $50,000.00

Project Purpose: Up date equipment and help prevent boiler corrosion.

Project Description: Replace softener tanks, piping, control valves and electrical controller to include brine tank.

Justification or Remarks: Soften water to help prevent boiler corrosion

Existing softeners, piping and controls have deteriorated beyond repair.

Encl (2)

PROJECT = 6C09

WELLHOUSES 603, 610 and 613 4-10-85

Replace existing auxilliary engines in well houses 603, 610 and 613 with diesel engines and required accessories.

JUST: Existing engines worn out and obsolete with no parts available.

Cost: $40,000.00

Encl (2) 3

Project 6210

BUILDING 670 3-26-85

The lime mixing, feeding, automatic control equipment and dust collectors have worn out in service. It is obsolete and no parts are available. The feeders and controls do not have sufficient capacity to satisfy the new expansion presently under construction.

This equipment should be replaced with a compatible, modern, long life type with built-in dust arrestors for the mixers and properly sized and paced with raw water meter to satisfy the new expansion presently under construction.

TOTAL ESTIMATED COST $120,000.00

Encl (4)

ace filter media in both No. 1 and No. 2 Filters, and influent sluice gates.

Existing media is 13 years old and has become too coarse to be effective.

Estimated cost: $40,000.00

Encl (4)

TEST 6C11

RIFLE RANGE - 85 4-10-85

Replace the auxilliary engine in pump room with a diesel generator with capacity to carry pumps, lights, chemical feeders, and panel board.

JUST: Engine worn out in service. It is obsolete with no parts available.

Total Estimated Cost $125,000.00

Encl (5)

BUILDING BB-190

3-27-85

1. The existing flow meters, recorders and transmitters are obsolete, and no parts are available for repair. These meters serve a very important function and should be replaced with a modern type equipment with a 4-20 MA signal to operate existing functions and without mercury due to the hazardous condition present with mercury.

2. The new elevated tank presently under construction in the Amphibian Troops Area does not include any monitoring system for this tank at the Courthouse Bay Water Treatment plant. Since this tank is filled by a booster pump at the base of the tank, the line pressure at the plant will not indicate the depth of water in the tank. A level indicator should be installed at the tank with monitoring capabilities at the Water Treatment Plant.

TOTAL ESTIMATED COST: $125,000.00

Encl (6)

BUILDING 22, TT-35, AND TC-563 (Project 6213

Replace all temperature controls on ten digestors with monitoring capabilities in the office.

JUST: The existing valves and controls are worn out, and obsolete with no parts available.

Estimated Cost: $30,000.00

Encl (1)

SUGGESTED PROJECT

PROJECT #6014

PROJECT TITLE: Replace chain link fense, SBA-160

Estimated Cost: ~~$2,000~~ 2,500

Project Purpose: Security

Project Description: Replace approximately 700 linear feet of chain link fence/ fabric to include posts, three stran barb wire.

Justification or Remarks: Existing fabric is worn beyond economical repair and should be replaced.

Encl (8)

SUGGESTED PROJECT Project 6015

Project Title. Replace four steam drive feedwater pumps and controls, Building 1700

Project Purpose. To replace existing pumps that are old and deteriorated.

Extimated Cost. $200,000

Project Description. Replace four steam drive feedwater pumps, controls, piping and gauges.

Justification or Remarks. Steam turbines are forty years old and have deteriorated to the extent it is more feasible to replace than repair.

Encl (9)

BUILDING 670 4-10-85

Replace filter media in both No. 1 and No. 2 Filters, and influent sluice gates.

JUST: Existing media is 13 years old and has become too coarse to be effective.

Total Estimated cost: $40,000.00

W R Price

BLDG. 20 4-10-85

Seal the outside walls to eliminate moisture and paint all interior walls and ceiling.

Just: Unsightly - paint peeling off

Cost: $50,000.00

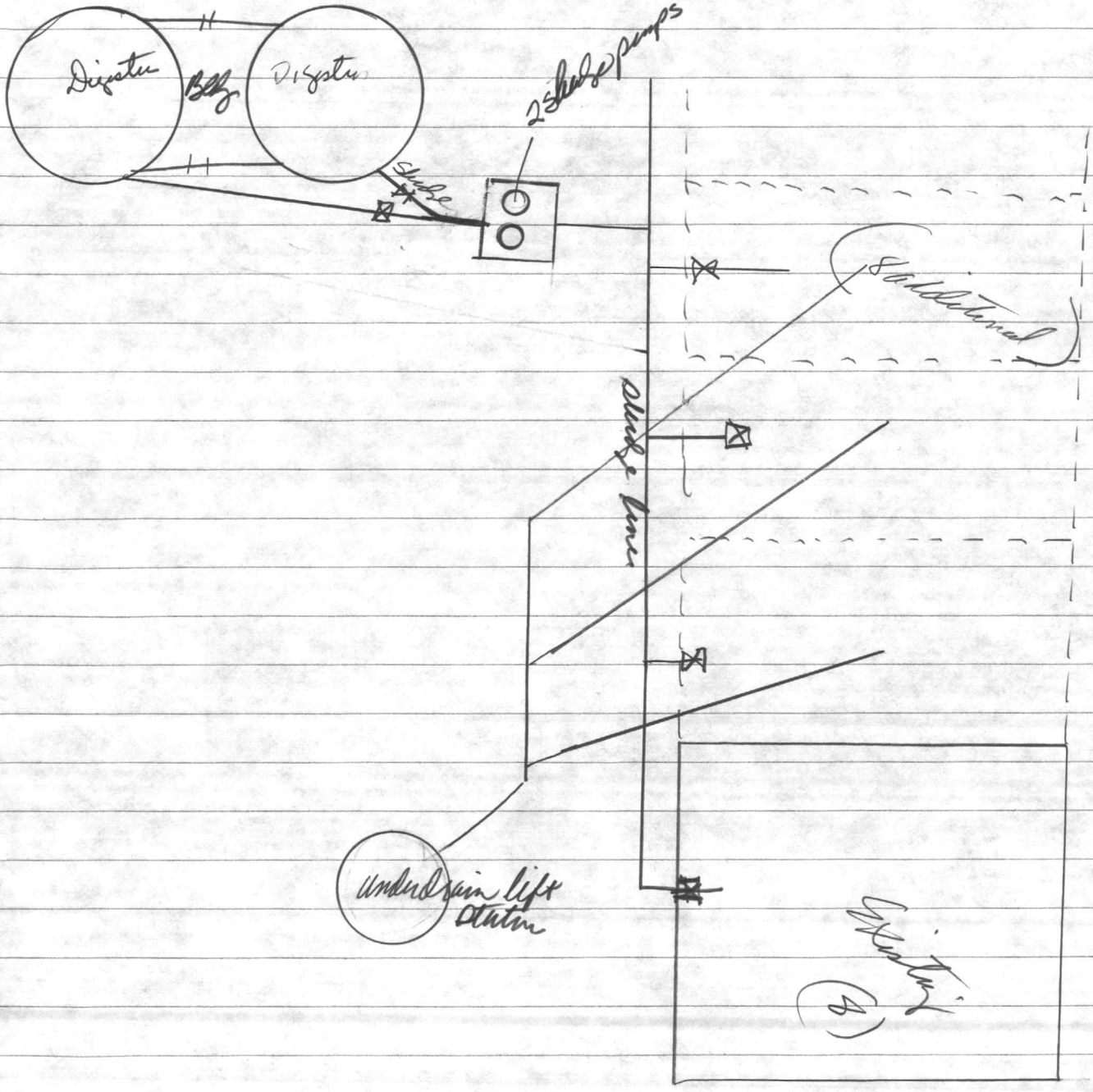
W R Price

BUILDING TT-35

The existing sludge drying beds do not have sufficient capacity to completely unload one of the 188,000 gallon digestor. Periodically, these digestor tanks have to be emptied for maintenance and repairs. When this happens, a berm has to be erected to contain the contents of the digestor which violates State Regulations and requires an excessive amount of drying time. Eight additional bed and a sludge transfer pumping station as indicated on drawing is needed to comply with both State and Federal Regulations when digestors have to be drained.

W.R. Price

2) 8 drying Beds with underdrains to lift station
B) Sludge pump station with 2 progressive cavity or positive displacement pumps
c) Values and pepring



BUILDING 670 3-26-85

The lime mixing, feeding, automatic control equipment and dust collectors have worn out in service. It is obsolete and no parts are available. The feeders and controls do not have sufficient capacity to satisfy the new expansion presently under construction.

This equipment should be replaced with a compatible, modern, long life type with built-in dust arrestors for the mixers and properly sized and paced with raw water meter to satisfy the new expansion presently under construction.

TOTAL ESTIMATED COST $120,000.00

W R Price

BUILDING BB-190

3-27-85

1. The existing flow meters, recorders and transmitters are obsolete, and no parts are available for repair. These meters serve a very important function and should be replaced with a modern type equipment with a 4-20 MA signal to operate existing functions and without mercury due to the hazardous condition present with mercury.

2. The new elevated tank presently under construction in the Amphibian Troops Area does not include any monitoring system for this tank at the Courthouse Bay Water Treatment plant. Since this tank is filled by a booster pump at the base of the tank, the line pressure at the plant will not indicate the depth of water in the tank. A level indicator should be installed at the tank with monitoring capabilities at the Water Treatment Plant.

TOTAL ESTIMATED COST: $125,000.00

W R Price

WELLHOUSES 603, 610 and 613 4-10-85

Replace existing auxilliary engines in well houses 603, 610 and 613 with diesel engines and required accessories.

JUST: Existing engines worn out and obsolete with no parts available.

Cost: $40,000.00

W R Price

RIFLE RANGE - 85 4-10-85

Replace the auxilliary engine in pump room with a diesel generator with capacity to carry pumps, lights, chemical feeders, and panel board.

JUST: Engine worn out in service. It is obsolete with no parts available.

Total Estimated Cost $125,000.00

W R Price

PAINT WELL PUMPS 4-10-85

Paint pumps and associated equipment in approximately 80 well houses located throughout the base. Painting should be done during winter months due to condensation in warm weather.

JUST: Needed to prolong life of equipment.

Total Estimated Cost: $20,000.00

W R Price