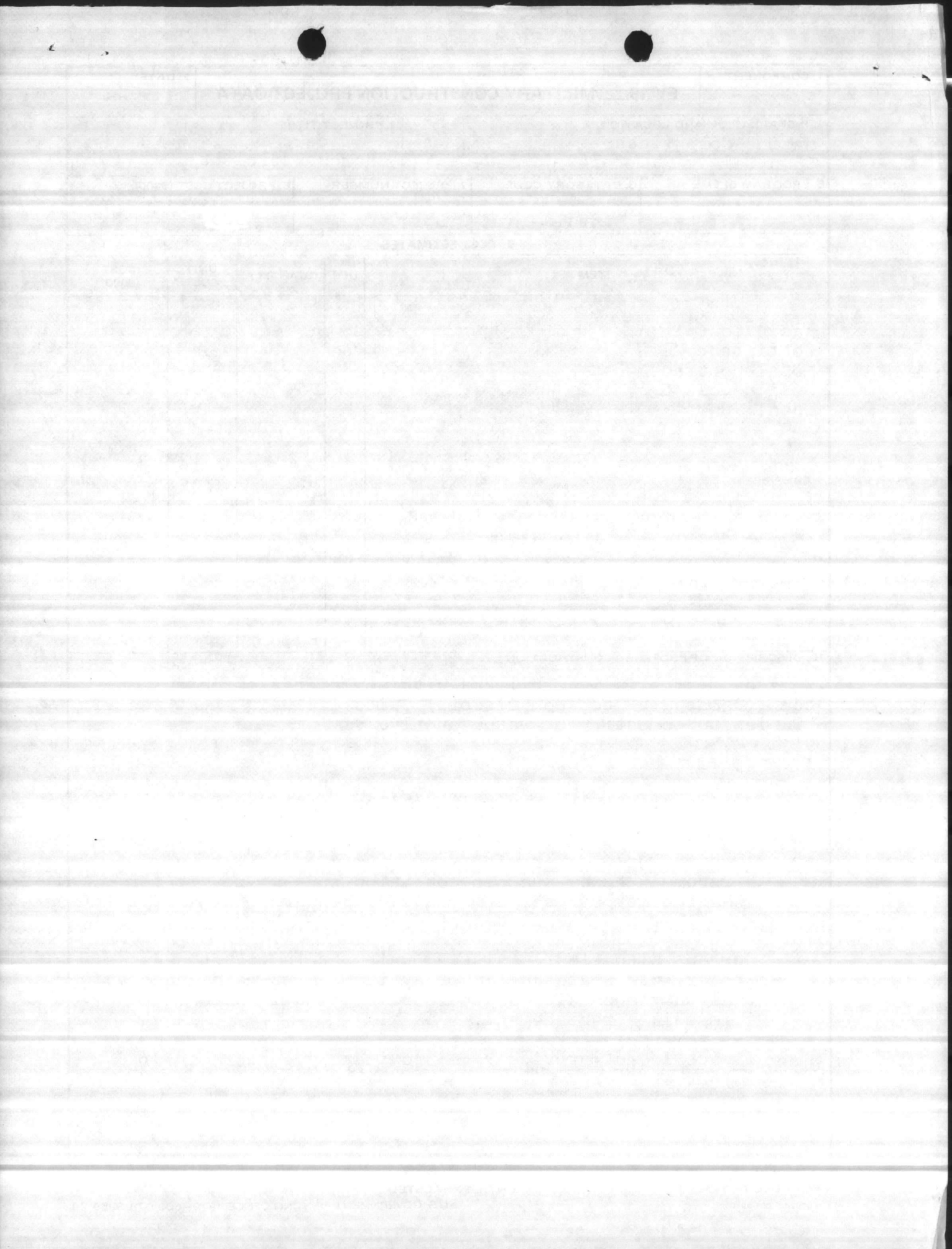


1. COMPONENT		FY 19 <u>87</u> MILITARY CONSTRUCTION PROJECT DATA			2. DATE	
					18 Sep 85	
3. INSTALLATION AND LOCATION				4. PROJECT TITLE		
Marine Corps Base Camp Geiger, NC 28542 G-540,G-550				Replace chillers with Energy-Efficient		
5. PROGRAM ELEMENT		6. CATEGORY CODE	7. PROJECT NUMBER		8. PROJECT COST (\$000)	
		55010	LE5036M		306	
9. COST ESTIMATES						
ITEM				U/M	QUANTITY	COST (\$000)
Basic Cost				LS	----	278
Contingency 10%				LS	----	28
Total Contract Cost				LS	----	306
Design Cost 6%						19
Total Funds						325
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Replace four existing chillers with new energy-efficient 200 ton ((4 each) 50 ton compressors) units including heat reclaim bundles to domestic hot water supply.</p> <p>11. Requirements:</p> <p><u>Projects:</u> Replace existing chilers in Bldgs G-520, G-530 with 200 ton units.</p> <p><u>Requirement:</u> To provide more energy-efficient units, as recommended by the air condition tune-up report for Marine Corps Base, Camp Lejeune prepared for LANTDIV by Rast and Associates of Charleston, SC dtd Nov 82.</p> <p><u>Current Situation:</u> Existing units are antiquated and spare parts are no longer available for maintenance. Already one unit is beyond repair and in need of immediate replacement.</p> <p><u>Impact if not provided:</u> Approximately 5,310 MBTU's/ year of energy will be lost due to inefficient operation.</p>						



COST ESTIMATE

DATE PREPARED
18 Sep 85

SHEET 1 OF 1

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

Marine Corps Base
Camp Geiger, NC 28542 G-540, G-550

ESTIMATED BY
Huffman

LE50336

CATEGORY CODE NUMBER

55010

PROJECT TITLE

STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify) _____

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Replace one chiller each building with energy efficient units including heat reclaim bundles connected to domestic hot water supply. Each unit to have (4) four (50) fifty ton compressors.	2	UN		120,000		80,000		200,000
Basic Cost				120,000		80,000		200,000
Overhead 15%								30,000
Labor (Ins,SS) 18%								14,400
Material 4.5%								5,400
Sub Total								249,800
Profit 10%								24,980
Sub Total								274,780
Bond 1%								2,747
Basic Cost								277,527



1. COMPONENT	FY 19 80 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
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3. INSTALLATION AND LOCATION	4. PROJECT TITLE
G-540, G-550	REPLACE CHILLERS WITH ENERGY-EFFICIENT

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST (\$000)
	55010	LE5036M	325

9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
BASIC COST	LS	--	--	278
CONTINGENCY 10%	LS	--	--	48
TOTAL CONTRACT COST	LS	--	--	306
DESIGN COST 6%				19
TOTAL FUNDS				325

10. DESCRIPTION OF PROPOSED CONSTRUCTION

REPLACE 4 EXISTING CHILLERS WITH NEW ENERGY-EFFICIENT 200 TON (4) 50 TON COMPRESSORS) UNITS INCLUDING HEAT RECLAIM BUNDLES TO DOMESTIC HOT WATER SUPPLY.

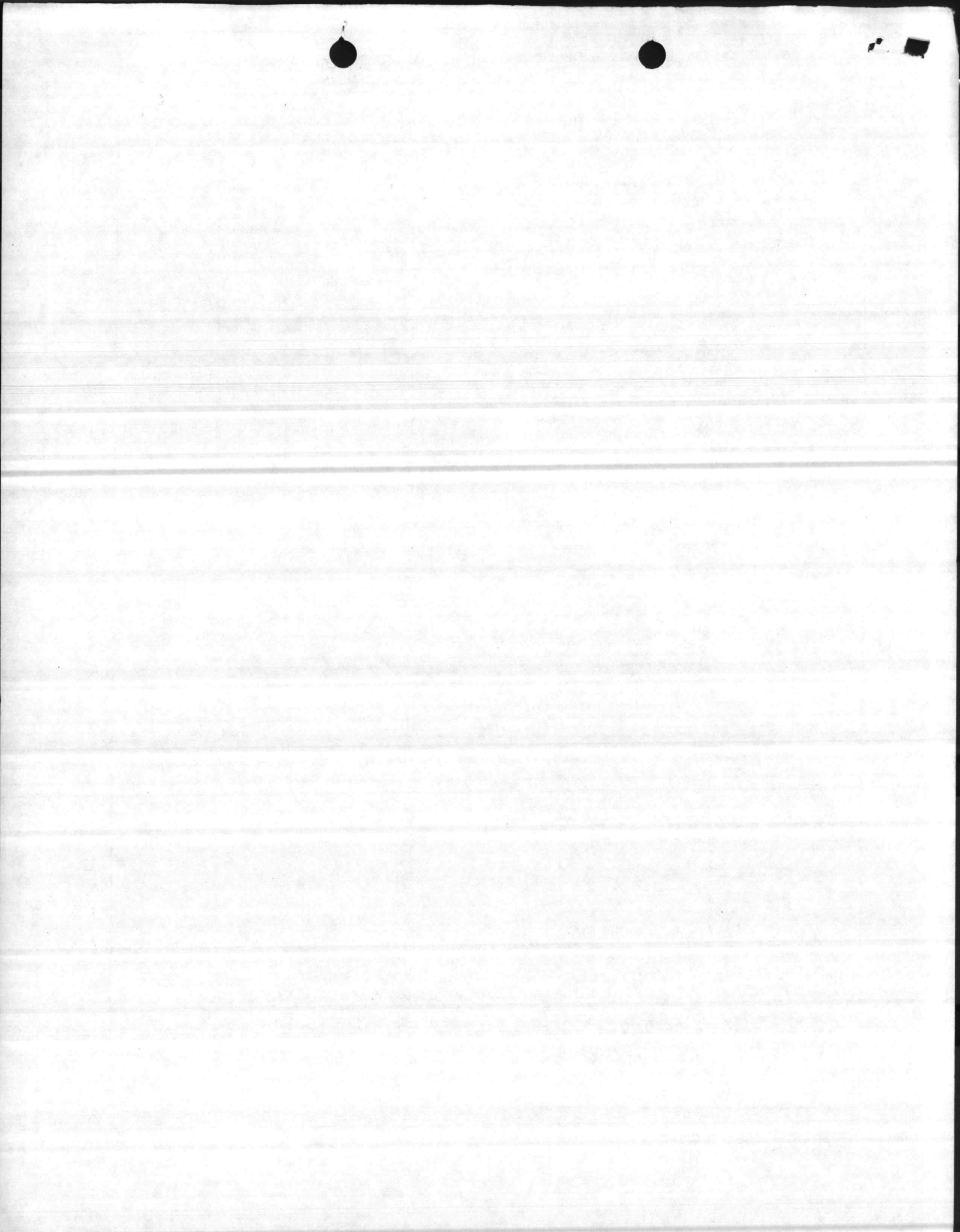
11. REQUIREMENTS:

PROJECTS: REPLACE EXISTING CHILLERS IN BUILDINGS G-~~520~~⁵⁴⁰, G-~~530~~⁵⁵⁰ WITH 200 TON UNITS.

REQUIREMENT: TO PROVIDE MORE ENERGY-EFFICIENT UNITS, AS RECOMMENDED BY THE AIR CONDITION TUNE-UP REPORT FOR MARINE CORPS BASE, CAMP LEJUNE PREPARED FOR LANT DIV BY RAST AND ASSOCIATES OF CHARLESTON, S.C. DATED NOVEMBER 1982

CURRENT SITUATION: EXISTING UNITS ARE ANTIQUATED, AND SPARE PARTS ARE NO LONGER AVAILABLE FOR MAINTENANCE. ALREADY ONE UNIT IS BEYOND REPAIR AND IN NEED OF IMMEDIATE REPLACEMENT

IMPACT IF NOT PROVIDED: APPROXIMATELY 5,310 MBTU'S/YEAR OF ENERGY WILL BE LOST DUE TO INEFFICIENT OPERATIONS.



COST ESTIMATE

DATE PREPARED
9-5-85

SHEET OF

ACTIVITY AND LOCATION

G-540, G-550

PROJECT TITLE

REPLACE CHILLERS WITH ENERGY EFFICIENT

CONSTRUCTION CONTRACT NO.

ESTIMATED BY

Huffman

STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify)

IDENTIFICATION NUMBER

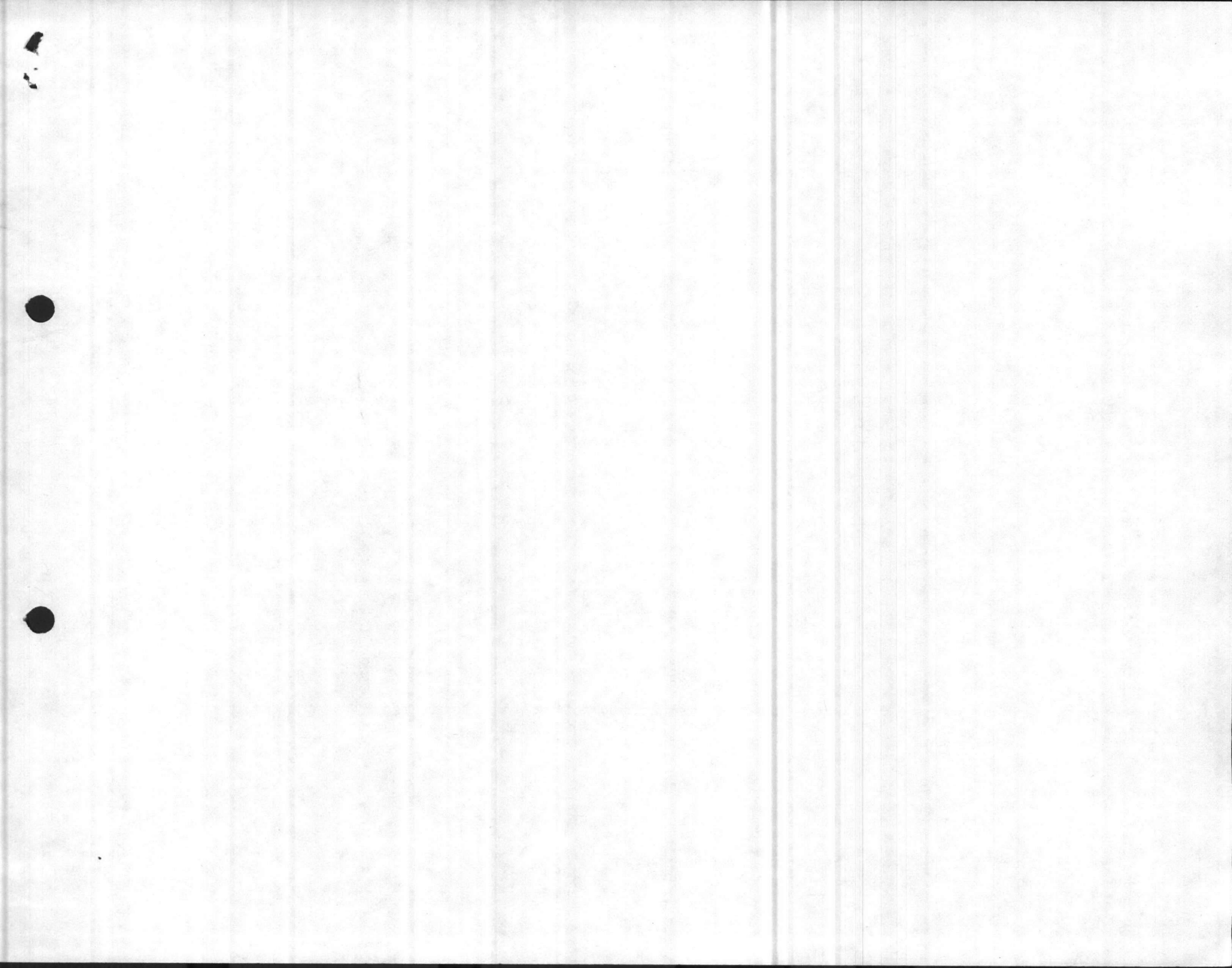
LE5036M

CATEGORY CODE NUMBER

55 010

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
REPLACE ONE CHILLER EACH BUILDING WITH ENERGY EFFICIENT UNITS INCLUDING HEAT RECLAIM BUNDLES CONNECTED TO DOMESTIC HOT WATER SUPPLY. EACH UNIT TO HAVE (H) FOUR (S) FIFTY TON COMPRESSORS	2	UN		120,000		80,000		200,000
BASIC COST				120,000		80,000		200,000
OVERHEAD 15%								30,000
LABOR (INS, SS) 18%								14,400
MATERIAL 4.5%								5,400
SUBTOTAL								249,800
PROFIT 10%								24,980
SUB TOTAL								274,780
BOND 1%								2,747
BASIC COST								277,527



HQMC O&M SURVEY DATA SHEET - MAJOR REPAIR PROJECT (LESS FAMILY HOUSING)

Activity	Activity Name	Yr.	No.	Day
BMAR Line No.	<i>Leisure</i> Project Plan Yr.	<i>85</i>	<i>11</i>	<i>19</i>
<i>000</i>	Work Description	Activity UIC		

Def Code	Facility No.	DoD Cat. Code	Time Reported Proj No.	Benefit Rating	Est. Cost (X\$000)
<i>2</i>	<i>6540</i> <i>6550</i>	<i>5500</i>	<i>LE5036M</i>		<i>306/325</i>

Real Property Deficiency Rating Factors

1. Command Importance:

- A. High (10) pts.
- B. Medium 5 pts.
- C. Low 0 pts.

2. Facility Category Code

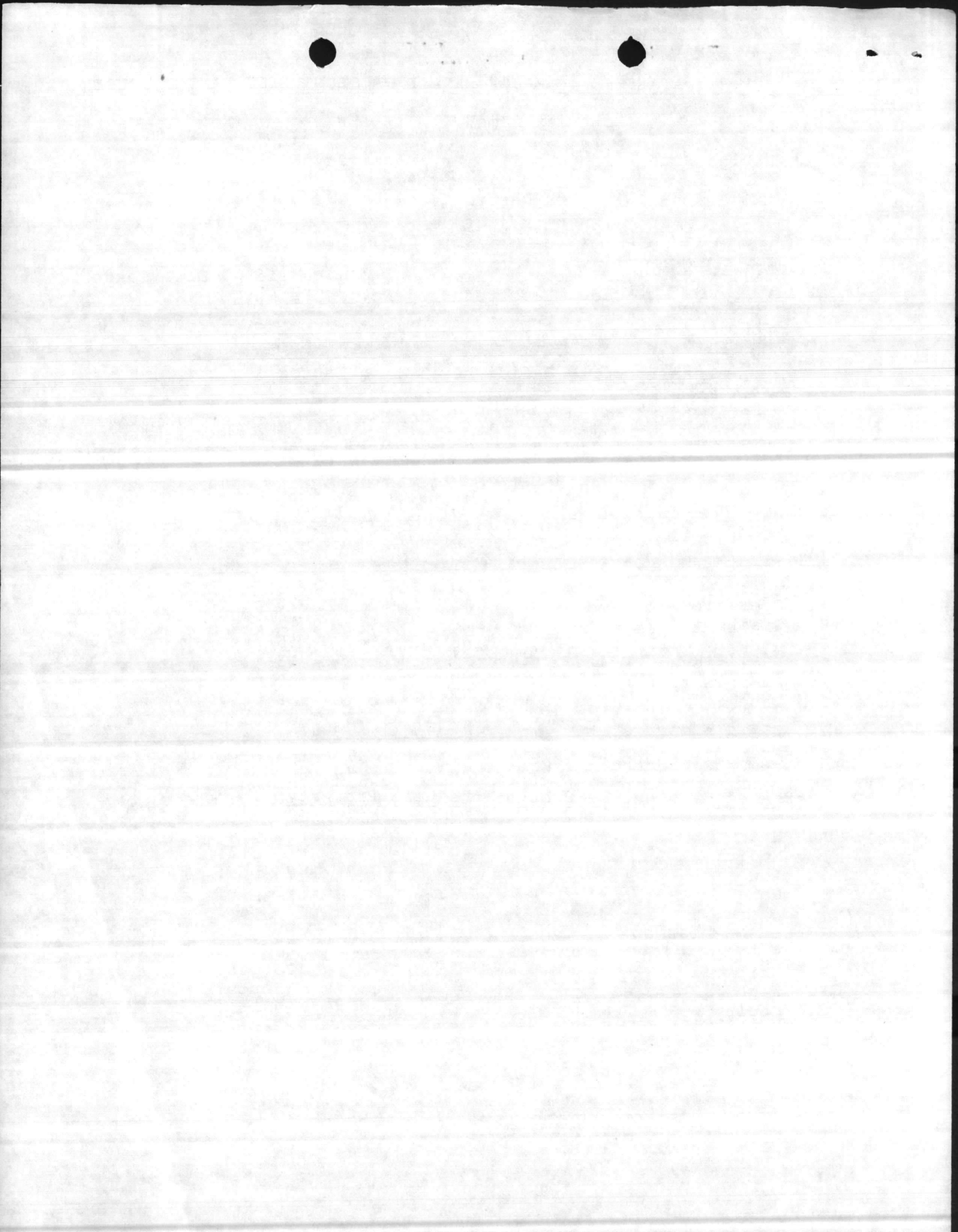
- A. Operations 20 pts.
- B. Training 17 pts.
- C. Quality of Life (UEPH, Dining Fac etc.) (15) pts.
- D. Utilities 13 pts.
- E. Administration 10 pts.
- F. Base Services (Public Works, Fire House etc.) 8 pts.
- G. Storage 6 pts.
- H. Community Support (MWR) 4 pts.

3. Increased Maintenance Cost of the Real Property

- A. High 20 pts.
- B. Medium 15 pts.
- C. Low (5) pts.
- D. None 0 pts.

4. Impact on Mission

- A. Critical 25 pts.
- B. High 15 pts.
- C. Medium 10 pts.
- D. Low (5) pts.
- E. None 0 pts.



5. Amortization Period

- A. 1 or 2 Years 20 pts.
- B. 3 or 4 Years 15 pts.
- C. 5 or More Years 10 pts.
- D. None 0 pts.

6. Project Generated by:

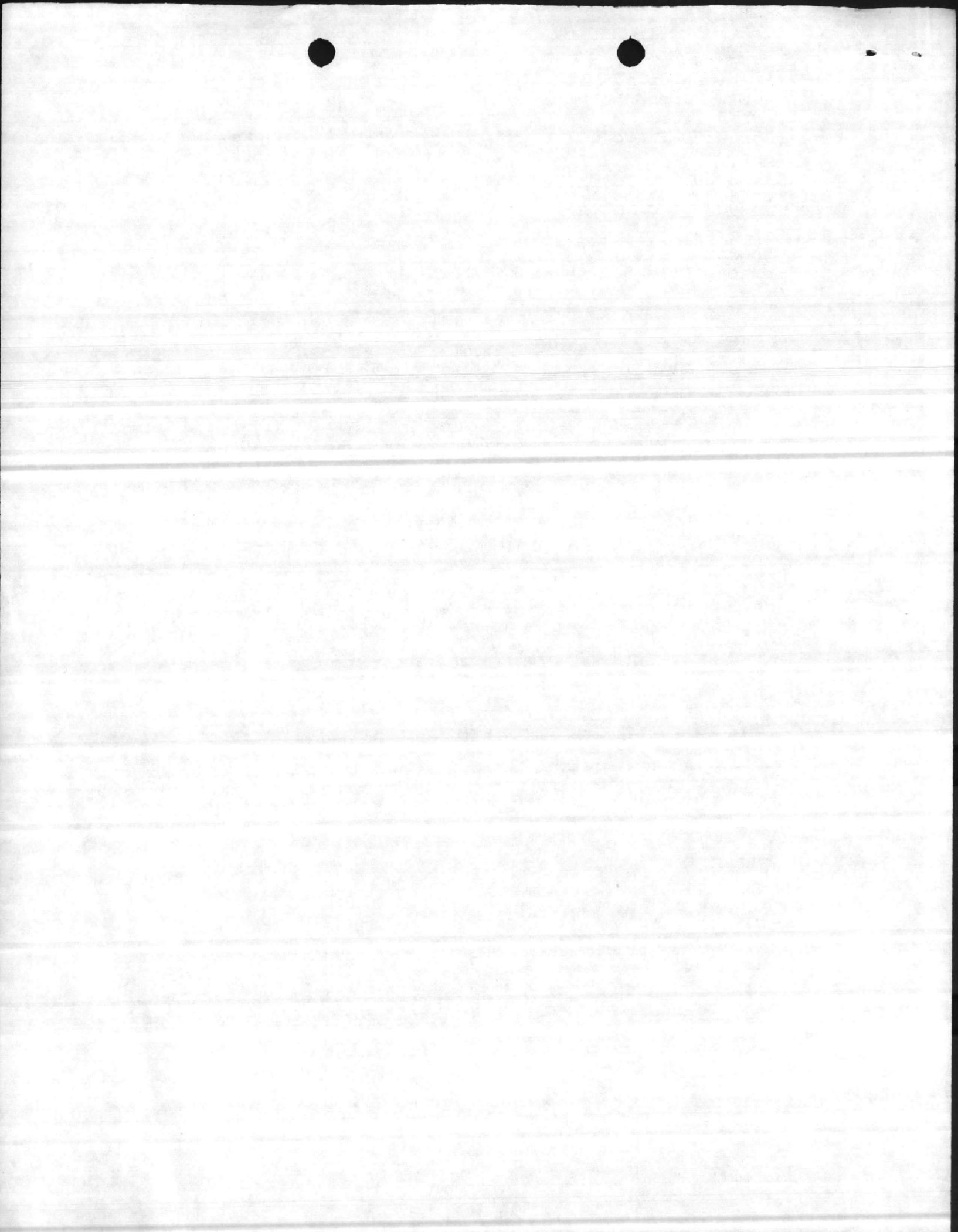
- A. CMC or Higher Authority Directed Program 5 pts.
- B. Serious Life Safety Risk Hazard 5 pts.
- C. Other 5-0 pts.

Computation

(1) 10 + (2) 15 + (3) 5 + (4) 5 + (5) 10 + (6) = ~~35~~ 45

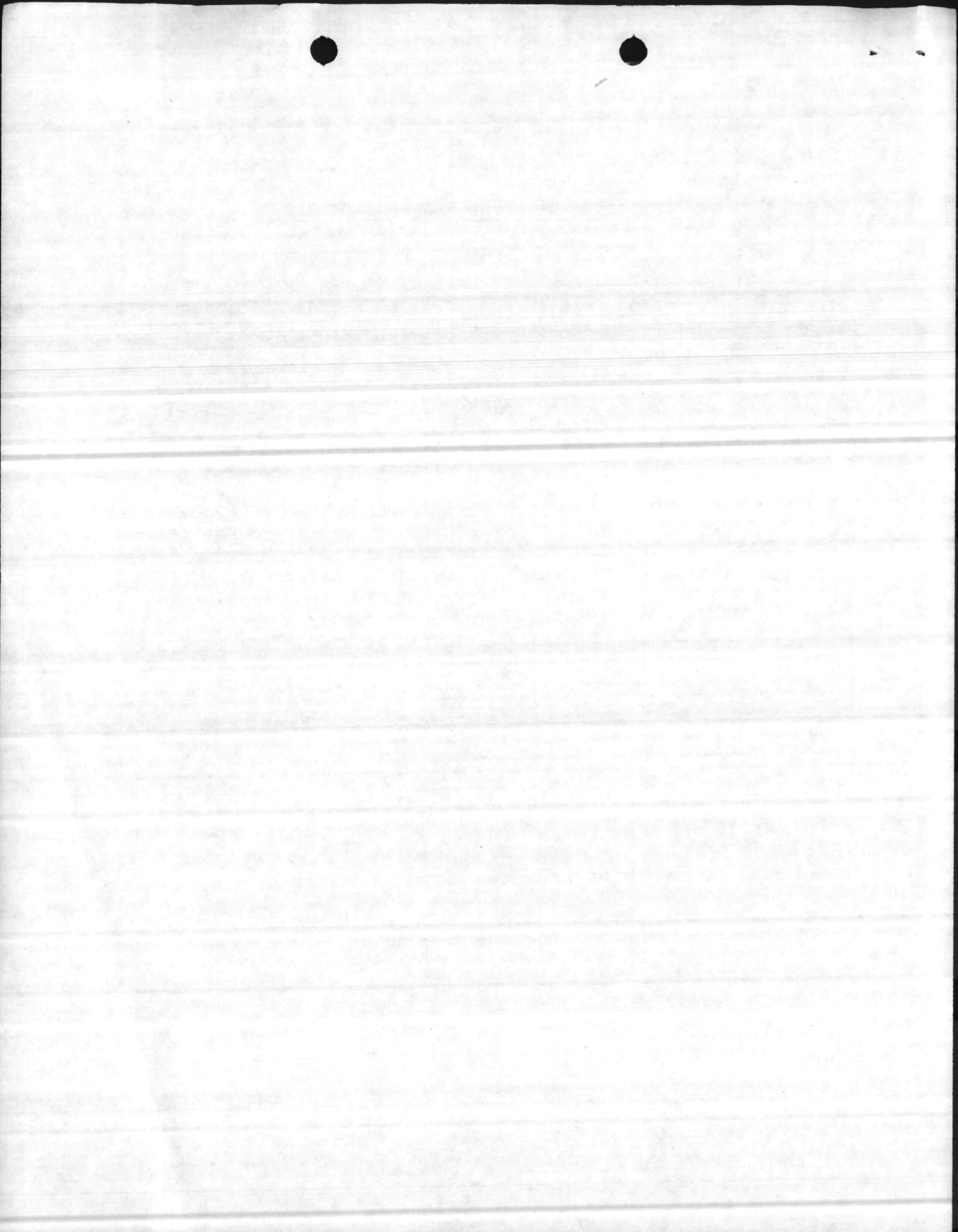
HQMC Representative *Ben P. Bond* Date 11/19/85

Activity Representative *MM Kin* Date 11/20/85



ADDITIONAL DATA FOR REPAIR PROJECTS

1. Will this project change asset condition code for facility where work is to be performed (i.e. from substandard to adequate)? NO. If so, site approval must be obtained from CMC (Code LFF-1) IAW MCO P11000.5 and P11000.12.
2. Is the facility planned or programmed for replacement or demolition? NO. If so, when? _____.
3. Will the funded cost of this project exceed \$200K and 50 percent of the replacement cost of the facility? NO. If so, economic analysis and ASN approval is required.
4. Will funded costs of project exceed \$3 million. NO. If so, ASN approval will be required.
5. Is page 1 DD 1391, Project Planning Data, attached? YES.



INTERPRETATIONS OF RATING FACTORS

Factor 1, Command importance. Allows for the imponderables of command interest. Of the total number of line items, only one-third will be allowed in each category: e.g., if the BMAR Report and Projects Plan lists 15 category Code 2 deficiencies 5 can be high importance, 5 medium, the remainder low. Assignment of priority should be made prior to validation visit.

Factor 2, Facility Category Code (where work is proposed). Allows emphasis to be placed on a particular functional class of facility relative to others according to needs of the Marine Corps. Weights assigned each category may change from year to year as necessary.

Factor 3, Increased Maintenance Cost of the Real Property. The deficiency is such that continued deferment may result in higher maintenance costs (e.g., deferral of repiping a building may result in repetitive maintenance work) OR, if accomplished at a particular time or under particular circumstances, may result in lower costs (e.g., resurfacing a parking lot in conjunction with repairing a street).

(1) High. A high probability that maintenance costs or unit costs will increase by more than 25 percent without regard to routine price or wage increases.

(2) Medium. Same criteria as preceding, except that the rate of increase ranges from 10 to 25 percent.

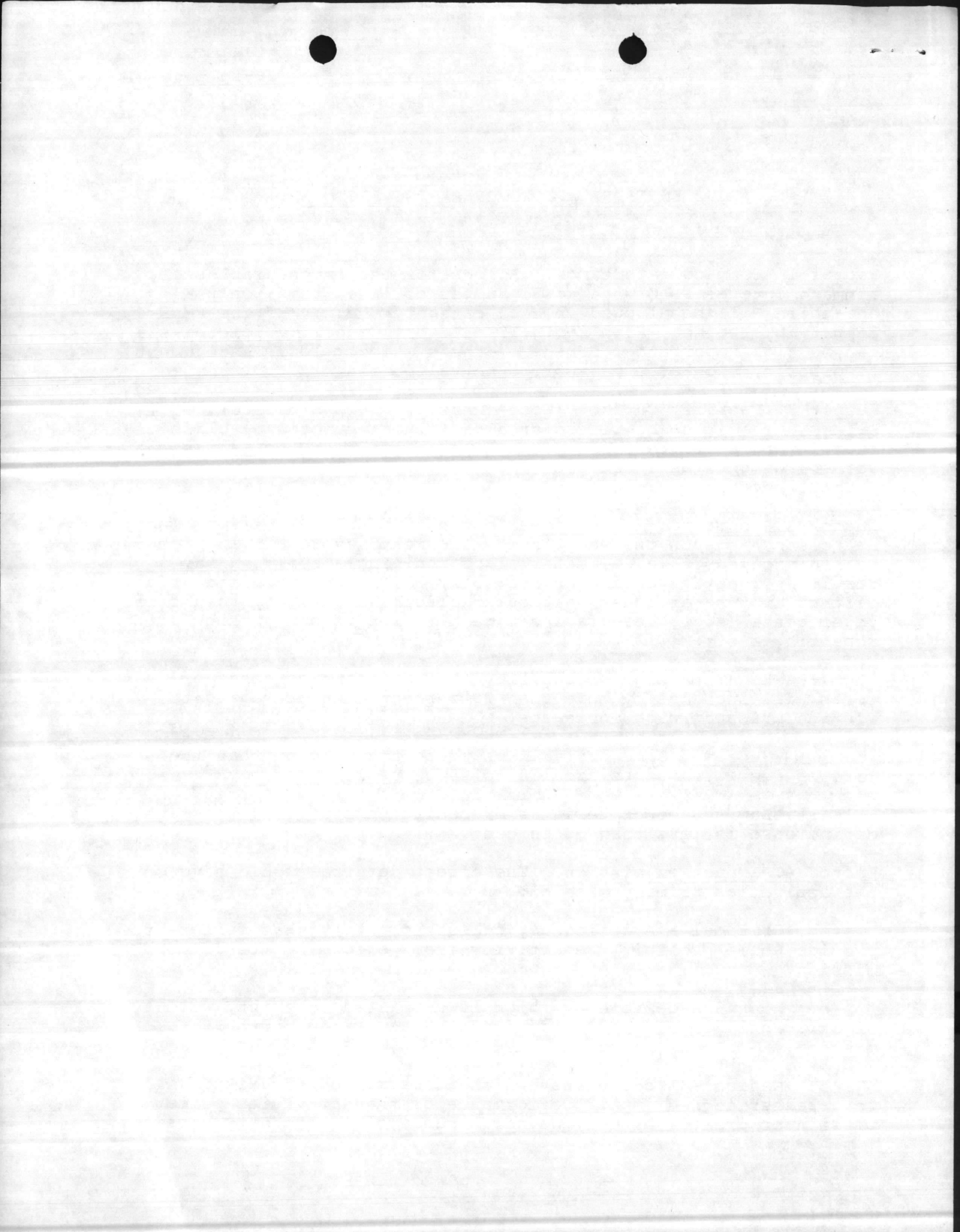
(3) Low. Same criteria as preceding, except that the rate of increase is less than 10 percent.

Factor 4, Impact on mission. The effect deferral would have on the activities primary mission.

a. Critical - A deficiency of such priority that failure to provide would prohibit the activity from performing its primary mission.

b. High - A deficiency which if permitted to exist, will significantly impair performance of the activities primary mission.

c. Medium - A deficiency which if permitted to exist, will to a lesser degree impair performance of the activities primary mission or greatly hinder the performance of a secondary mission.

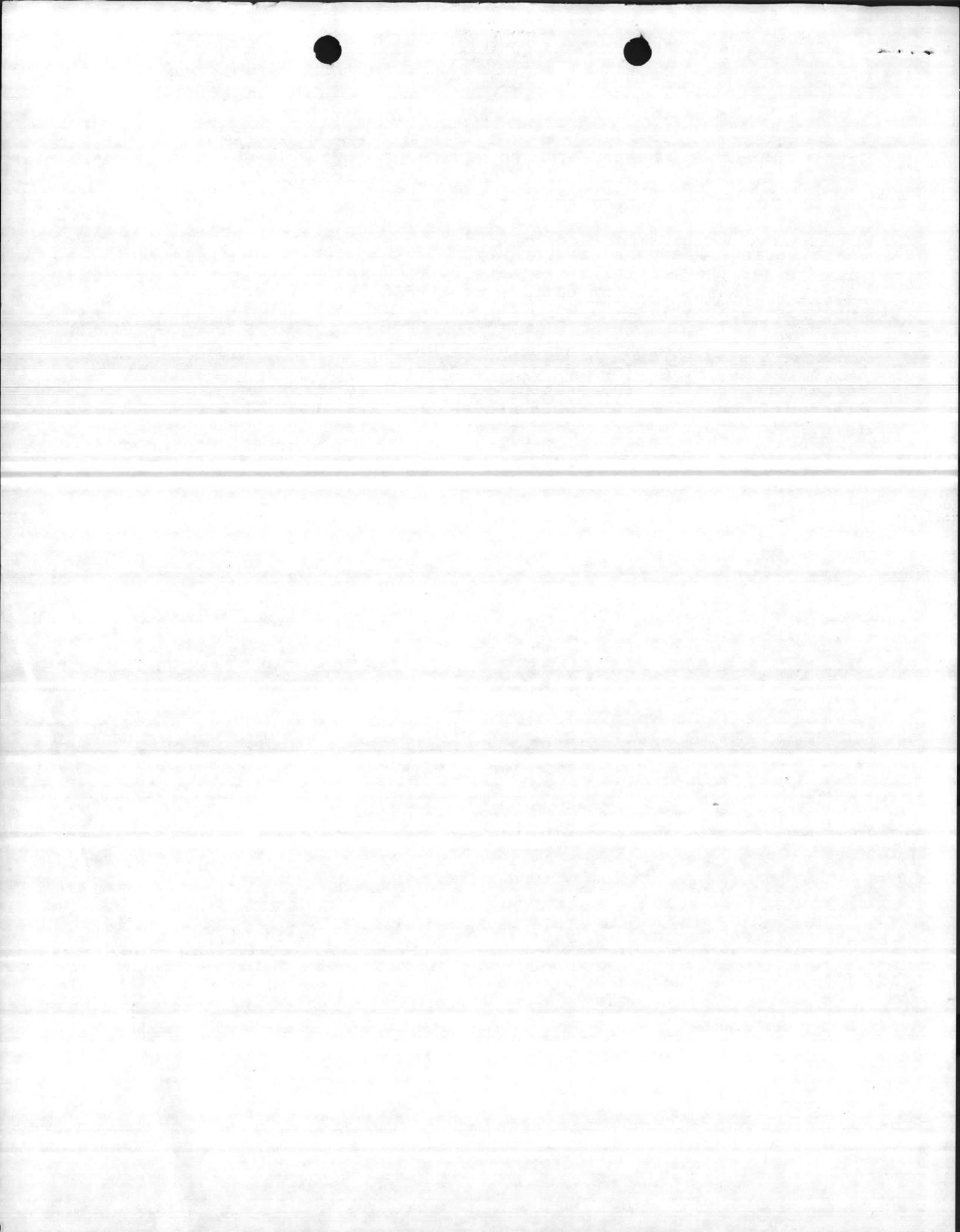


d. Low - A deficiency which, if permitted to exist, will have little impact on the performance of the primary mission.

e. None - Self Explanatory.

Factor 5, Amortization Period. The time period expressed in years during which the present value of the total annual savings will offset the initial investment cost of the project as described in the current edition of NAVFAC P-442 (Economic Analysis Handbook).

Factor 6, Requirement Generated By. Where the need originated. An expression of the source of the need for the facility or the reason the project is required. If generated by "other", discretion must be applied in assessing value under this factor. (e.g., a project generated to comply with state or local regulations would generally rate a value of 5; whereas a "nice to have" project sourced at a tenant unit might score low, one or two points.



LE 5036 m

14 APR 1988

4280
MAIN

Base Maintenance Officer, Marine Corps Base, Camp Lejeune

Public Works Officer, Marine Corps Base, Camp Lejeune

CONTRACT #NG2470-86-B-5562, REPLACE CHILLER WITH ENERGY EFFICIENT UNITS

1. The subject contract has been reviewed and the following comments are provided:

ELECTRICAL

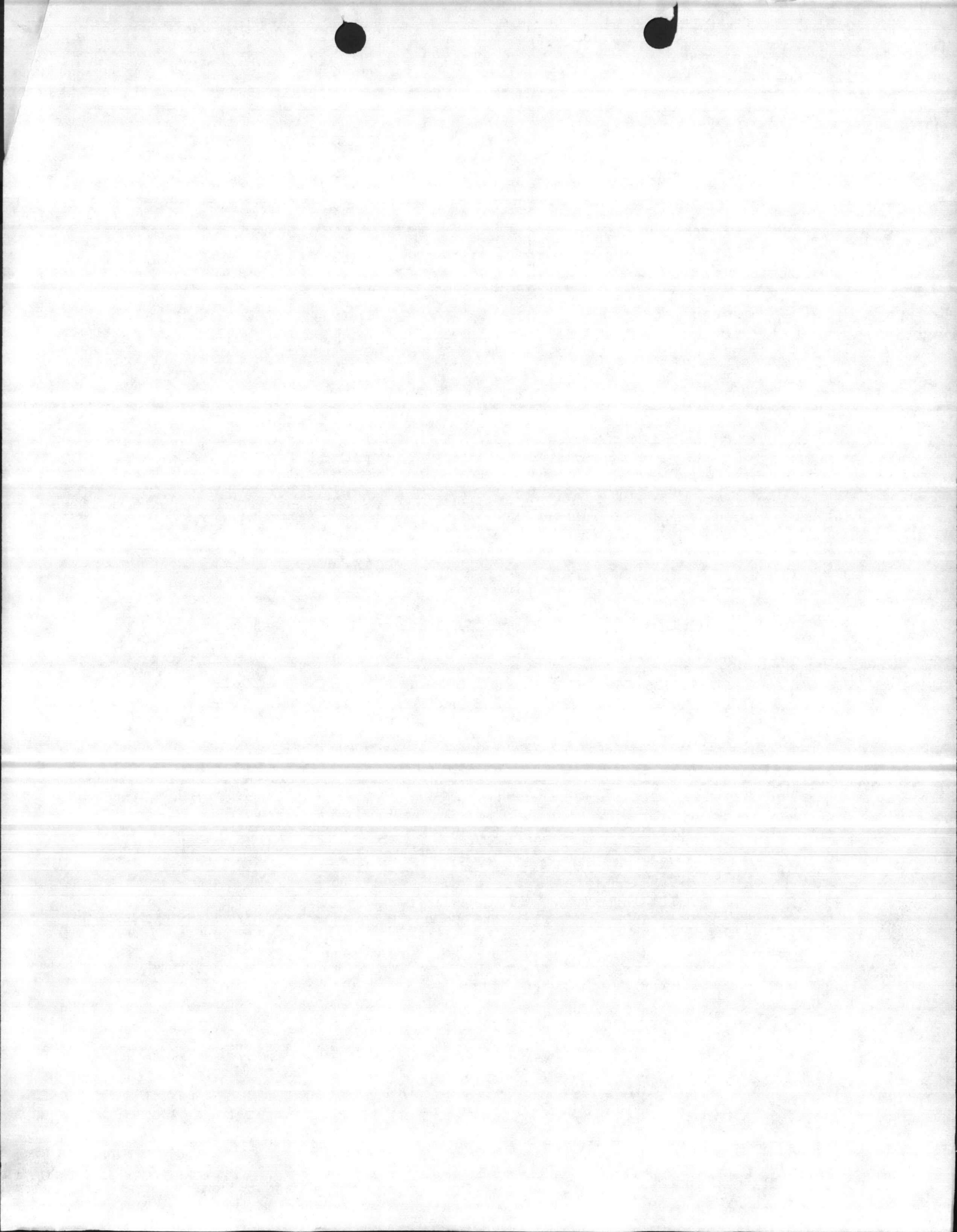
SHEET E-2 NOTE 1: Floor plans on the reinstallation for Building G-520 indicates a #2 hot water pump to be a 5 horse power motor, panel "C" schedule, circuit #4, indicates #2 hot water pump to be a 1.5 horse power motor. Drawings are not consistent.

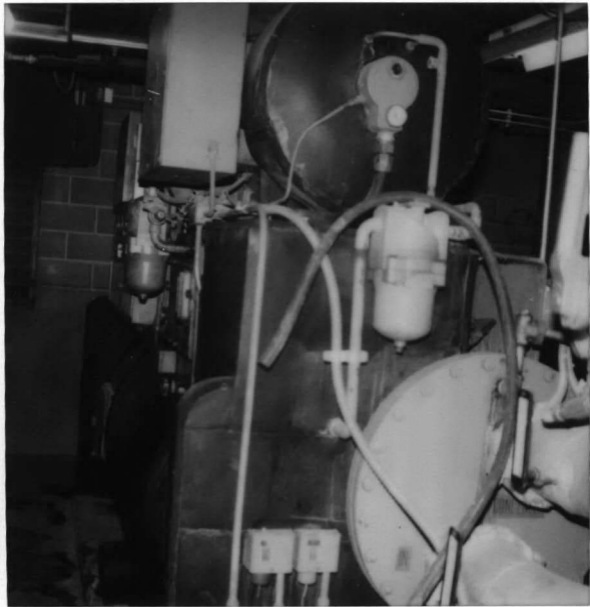
2. Point of contact is Tommie Blanton, Planner/Estimator, or Greg Shoemaker, Contracts Manager, x5794.

T. D. JEWELL
By direction

Blind Copy to:
Tommie Blanton, P&E

Writer: G. Shoemaker, MAIN, X5794
Typist: Gina Williams, 04-14-88

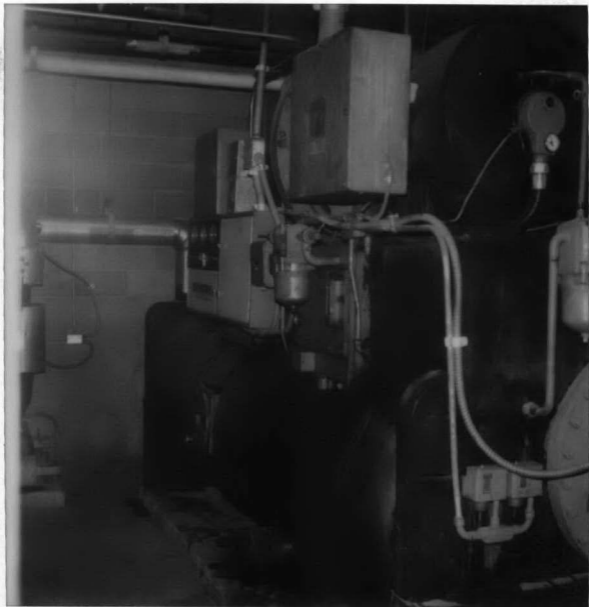




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POLAROID® 2

G-550



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POLAROID® 2

G-540

DEPARTMENT OF THE NAVY

POSTAGE AND FEES PAID
DEPARTMENT OF THE NAVY



DOD-317

OFFICIAL BUSINESS
PENALTY FOR PRIVATE USE, \$300

G 540

G 550

