



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

IN REPLY REFER TO
11000
MAIN
29 JUN 1984

From: Commanding General, Marine Corps Base, Camp Lejeune
To: Commanding Officer, Marine Corps Air Station (Helicopter),
New River, North Carolina 28545

Subj: REPORT OF FIRE PROTECTION ENGINEERING SURVEY

Ref: (a) CO MCAS(H) NR first end 204/FEA/jw of 23 Apr 84 on
CMC ltr LFF-2/AGK/cvm of 6 Apr 84
(b) CG MCB CLNC ltr FAC/ACA/hf 11000 of 21 Dec 83
(c) CMC ltr LFF-2/PCH/cvm 6280 of 14 Feb 84

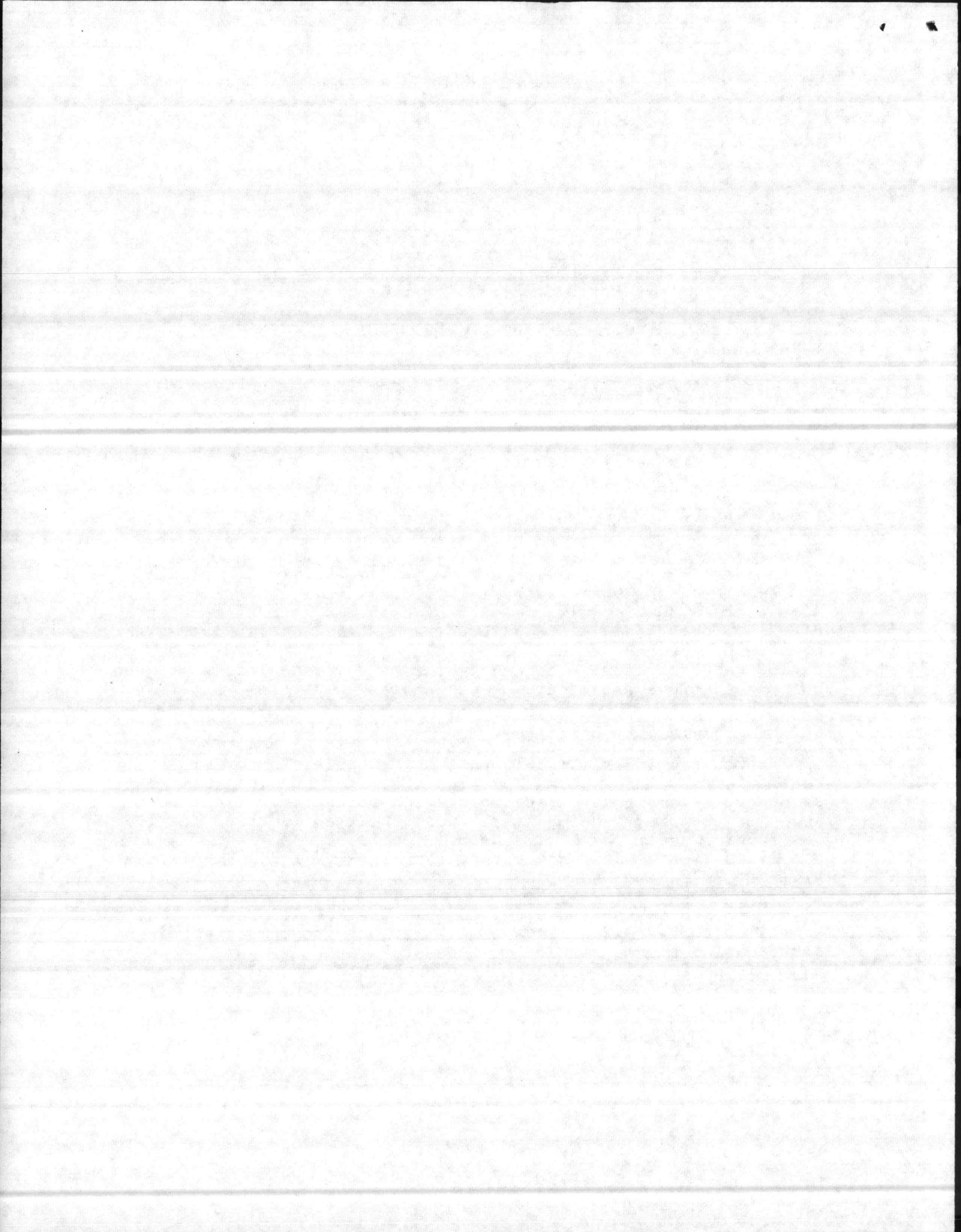
Encl: (1) Engineering Service Request - Investigate Water Distri-
bution System at MCAS(H), New River

1. As requested by reference (a), the following comments are provided regarding water distribution problems at MCAS(H), New River:

a. The inadequate water distribution system in the vicinity of Hangar AS-840 is only one of many problems associated with the distribution systems at Camp Geiger and MCAS(H), New River. Because of poor design and system modifications, operational problems such as low water pressure, stagnant water, and recirculation between pumping stations are occurring throughout the system.

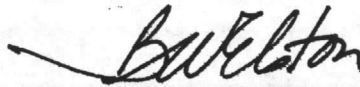
b. Due to the number of problems associated with the water distribution system and the interrelationship of solutions to these problems it is our opinion that a complete study of the water distribution systems at Camp Geiger and MCAS(H), New River should be accomplished. Accordingly, a request for a complete study of the distribution system was submitted in reference (b) for funding under the Marine Corps' Special O & M Program Funding for fiscal year 1984. However, due to lack of funds, the study will not be funded under this program as noted in reference (c).

c. Based on the above, an Engineering Service Request has been submitted to LANTDIV to investigate various problems regarding the distribution system, including those related to Hangar AS-840. A copy of the ESR is attached as the enclosure. Local funds will be provided for the study.

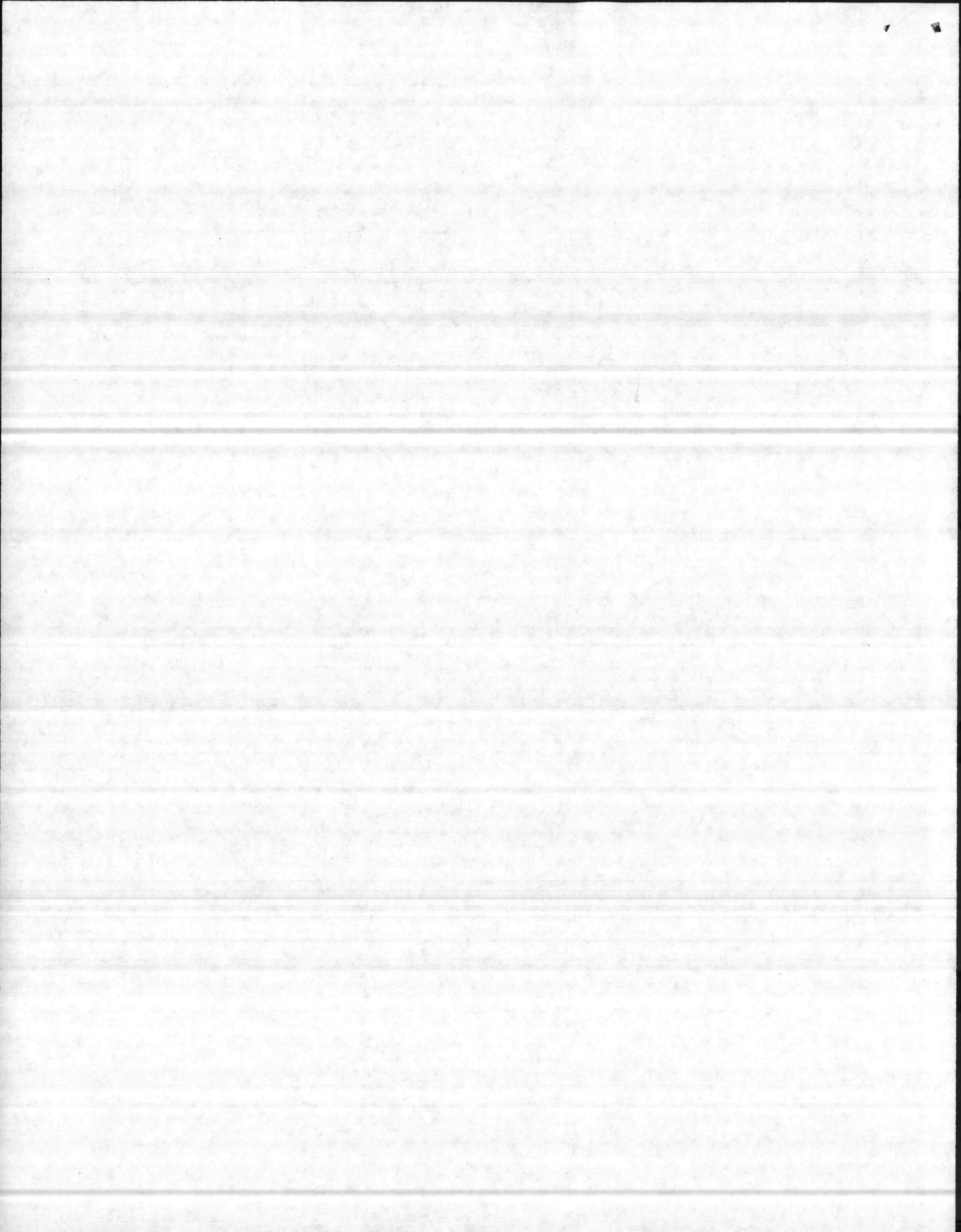


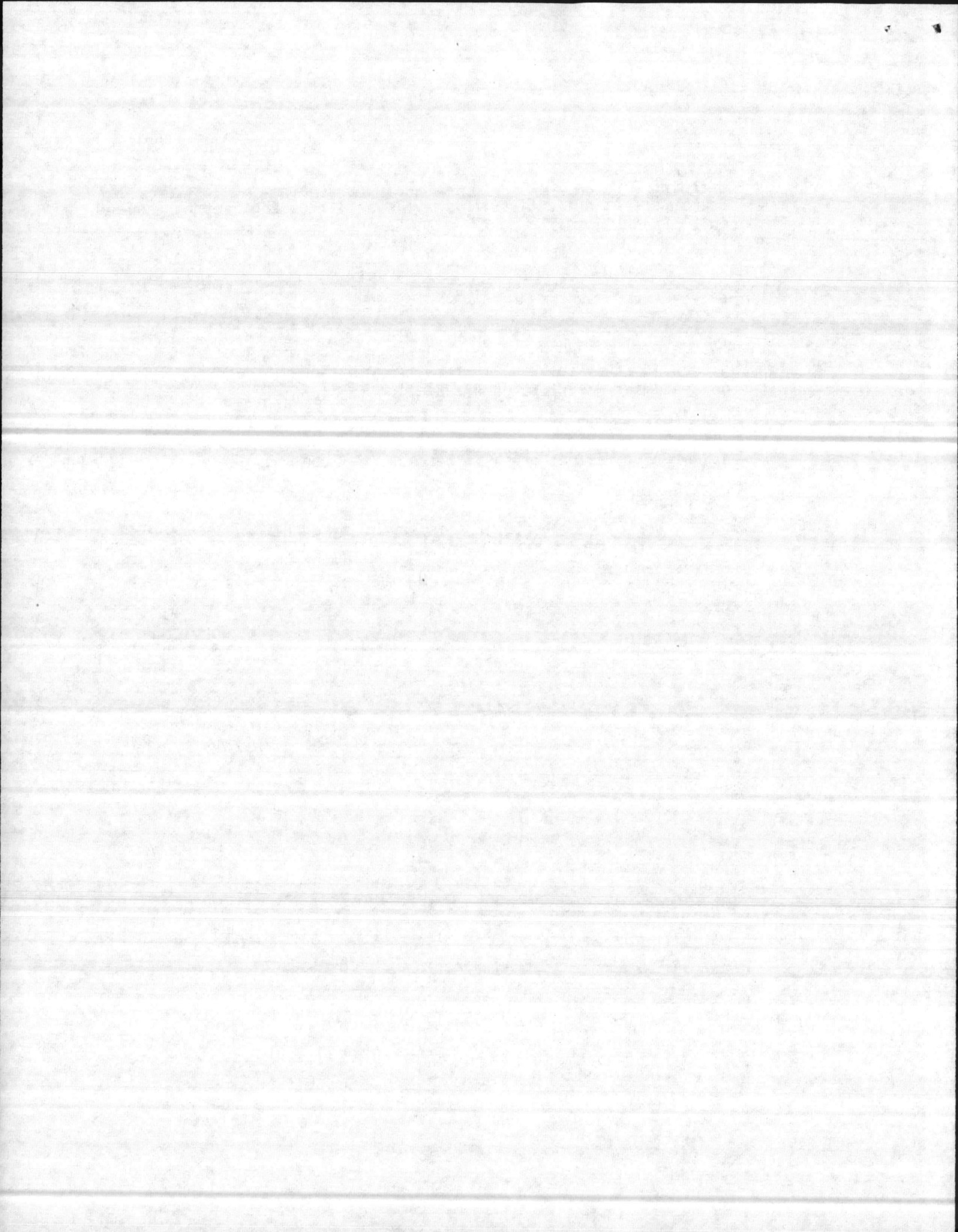
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2. The point of contact for additional information is Mr. F. E. Cone, extension 2511.



B. W. ELSTON
Acting





emergency pumping station with a 300,000 gallon ground storage reservoir for emergency fire protection. This station is considered inadequate for a potable water source. Presently, water is wasted by overflowing the reservoir to maintain the minimum chlorine residual.

b. Presently, the whole Camp Geiger area is served by an 8-inch line. If the demand is not met by Marine Corps Air Station, it is assisted by TC-501 pumping station at Camp Geiger. TC-501 contains a ground water storage tank with a capacity of 872,000 gallons. If too much water is delivered through this line, the nearest elevated tank at Camp Geiger (TC-1070) will overflow while the other elevated tank (TC-606) will decline. The controls for the distribution pumps located in TC-501 are controlled from TC-606 elevated tank.

c. The only method of filling the 872,000 gallon reservoir is through a gate 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 through the distribution line and return to the reservoir. As this occurs, the distribution pressure continues to drop since no water is being delivered except from MCAS. If this continues, the elevated tank (TC-1070) will overflow.

III. DETAILS OF WORK:

a. Investigate water distribution system for Camp Geiger and MCAS(H), New River, including delivered water pumps and water tanks.

b. Determine the size of distribution lines, pumping systems, and storage tank capacities.

c. Provide preliminary drawings and a cost estimate to develop a project to correct deficiencies.

IV. TIME REQUIREMENTS: Completion of study is required by January 1985 to maintain fire protection system.

V. FUNDS AVAILABLE: This Command will furnish O&MMC funds on request.

VI. POINT OF CONTACT: Mr. G. S. Johnson or Mr. David Southerland, Base Maintenance Division, AV: 484-5161; FTS: 676-5161.

