

ACTION INFO INITIAL

	ACTION	INFO	INITIAL
BMO		✓	<i>[Signature]</i>
ABMO		✓	BWZ
MAINT NCO			
SAFETY CHMN			
PROP			
M&R			
OPNS		✓	<i>[Signature]</i>
ADMIN			
TELE			
UTIL			
ENVIRON AFF		✓	<i>[Signature]</i>
SECRETARY			
F&A BRANCH			

NREA -

Please obtain  
copy of basic  
corres. and let's  
discuss

*[Signature]*





DEPARTMENT OF THE NAVY  
ATLANTIC DIVISION  
NAVAL FACILITIES ENGINEERING COMMAND  
NORFOLK, VIRGINIA 23511

TELEPHONE NO.  
444-7131  
AUTOVON 690-7131  
IN REPLY REFER TO:

2032:JHB  
11010/MARCORB

CAMLEJ  
8 APR 1977

From: Commander, Atlantic Division, Naval Facilities  
Engineering Command  
To: Commanding General, Marine Corps Base, Camp Lejeune,  
North Carolina  
Subj: Proposed license to Onslow County for clearance of  
Drainage Outfalls  
Ref: (a) MARCORB CAMLEJ ltr PWO:CJP:dh of 15 Nov 1976

1. This Command has reviewed reference (a) and is in agreement with your recommendation that an easement, vice license, be issued when and if it is decided that the proposed modifications will be of mutual benefit to the private sector and Marine Corps Base, Camp Lejeune.

2. It is recommended that your proposed course of action be pursued, with the following modifications:

a. The engineering plan to be required of Onslow County should, in addition to those specific items mentioned in paragraph 3-b of reference (a), include sufficient preventive measures to preclude flooding of low areas along Wallace Creek as a result of increased flow. Flooding of low areas will increase mosquito breeding potential along Wallace Creek.

b. The requirement in paragraph 3-d that Onslow County "guarantee the bacteriological, biological, and chemical quality of the water delivered onto the base", may be difficult for Onslow County to meet and MARCORB CAMLEJ to enforce. A more reasonable approach would be to require Onslow County to provide evidence that conditions are suitable for proper operation of septic tanks, and to assume responsibility for sampling and pollution abatement as necessary, should the systems fail to operate properly. Additionally, the proposed easement should provide for installation and maintenance of trash racks on all culverts to prevent trash from entering the base.

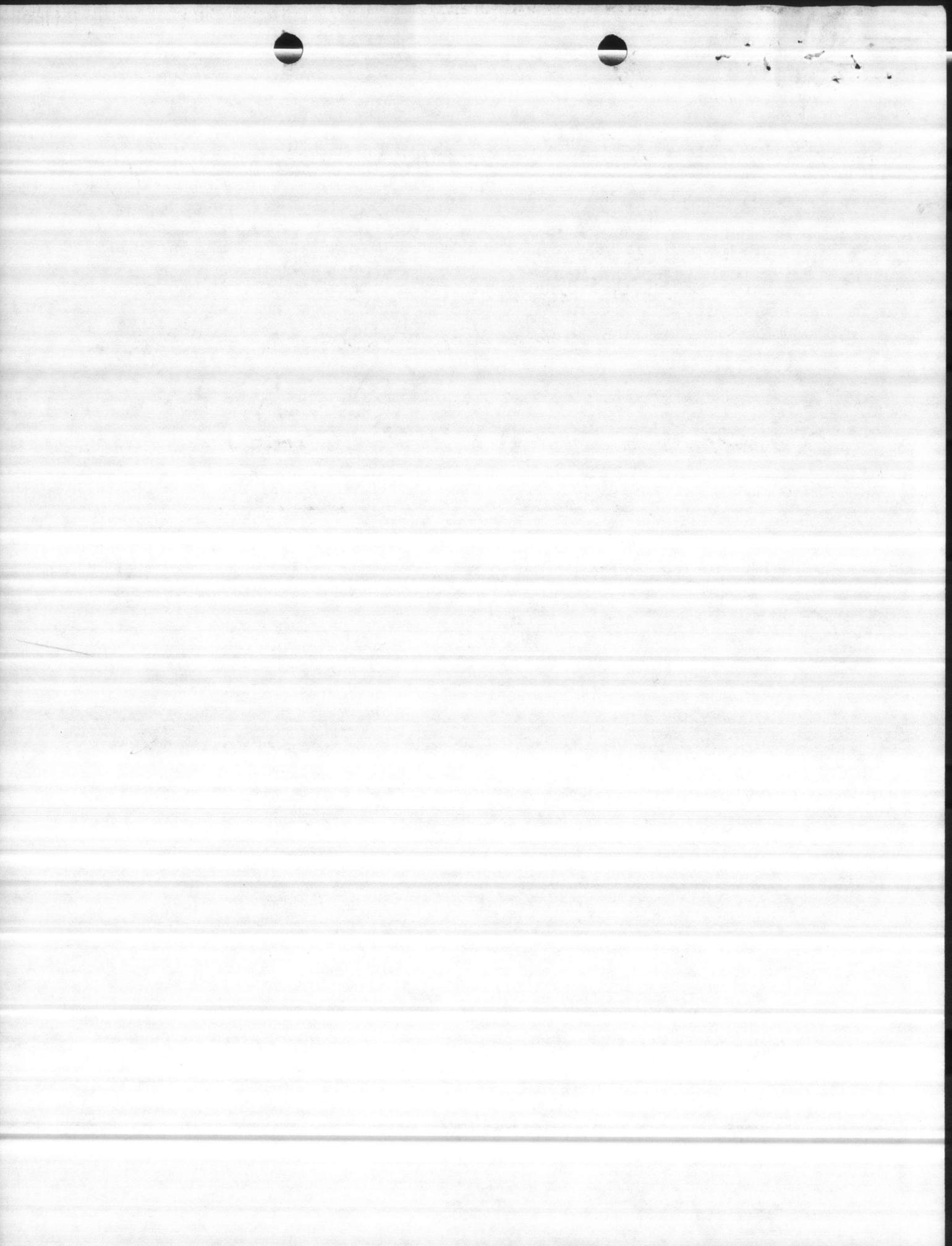


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c. The increased water flow and accompanying increased sediment load will probably have an impact on shellfish beds in the lower reaches of Wallace Creek and should be included, along with results of the above mentioned studies, in a revision to the previously submitted Environmental Impact Assessment.



N. D. FALK  
By direction



8 Nov-76  
PWO:CJP:dh  
15 Nov-1976

**From:** Commanding General  
**To:** Commander, Atlantic Division, Naval Facilities Engineering  
Command, Norfolk, Virginia 23511

**Subj:** Proposed license to Onslow County for clearance of drainage  
outfalls

**Ref:** (a) LANTNAVFACENGGCOM ltr 241:RHS over LIC-0-558 dtd 16 Jul 1976

**Encl:** (1) PWO, MCB, CLNC memo PWO:JBH:dh for AC/S, Facilities dtd  
26 Aug 1976

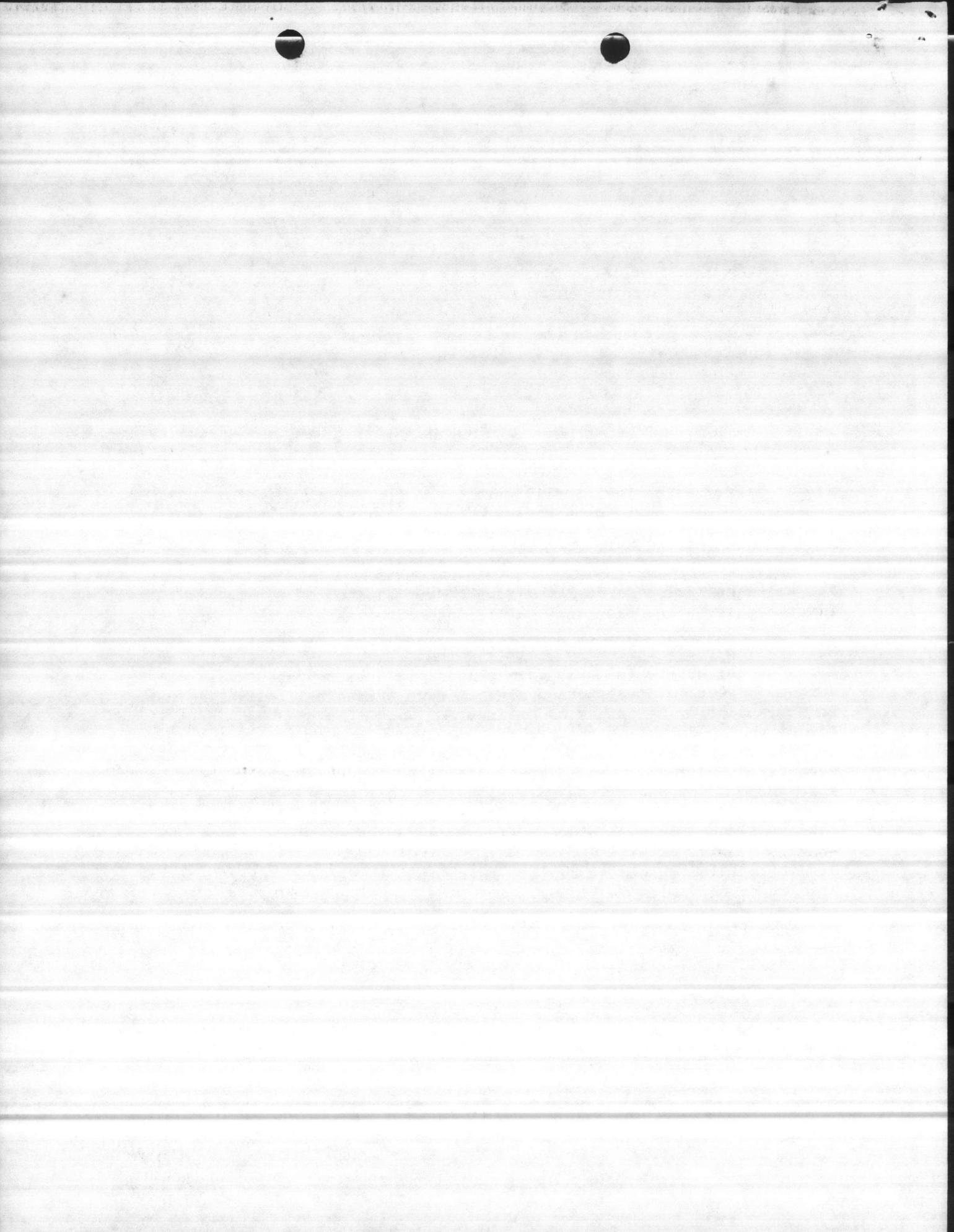
1. It is requested that the license proposed in reference (a) not be issued. This is based upon review of prior correspondence relating to the subject project and current engineering evaluation by Public Works Department engineers.

2. Files at Marine Corps Base, Camp Lejeune indicate that Onslow County first contacted the Base on 5 May 1969 to request improvement of drainage through the Base in the general areas of Piney Green-Hubert and Camp Geiger. In the intervening years, numerous meetings have taken place among County, State (Highway Commission) and Base representatives on various aspects of the problem and all have agreed that a problem does, indeed, exist. The extent of engineering work that has been accomplished to define the degree of the problem and the extent of remedial work to be undertaken has been woefully inadequate, however. Throughout the negotiations, it has been understood that an easement would be issued and Marine Corps Base, Camp Lejeune has insisted upon the County assuming responsibility for future upkeep. A license, since it does not require any maintenance or repair by the licensee, would not be satisfactory.

3. As outlined in enclosure (1), this Command believes that the drainage problem to the north of Highway 24 in the Piney Green-Hubert area is far too complex to be solved by the simplistic approach contained in the proposed license. It is proposed that the following course of action be pursued:

a. The Commanding General, Marine Corps Base, Camp Lejeune contact the new Onslow County Manager setting forth the position of the Command and request a meeting with County officials to review the problem. A letter is being prepared at this time.

b. The Government require that a comprehensive engineering study be conducted and a plan be developed to show proposed invert elevations



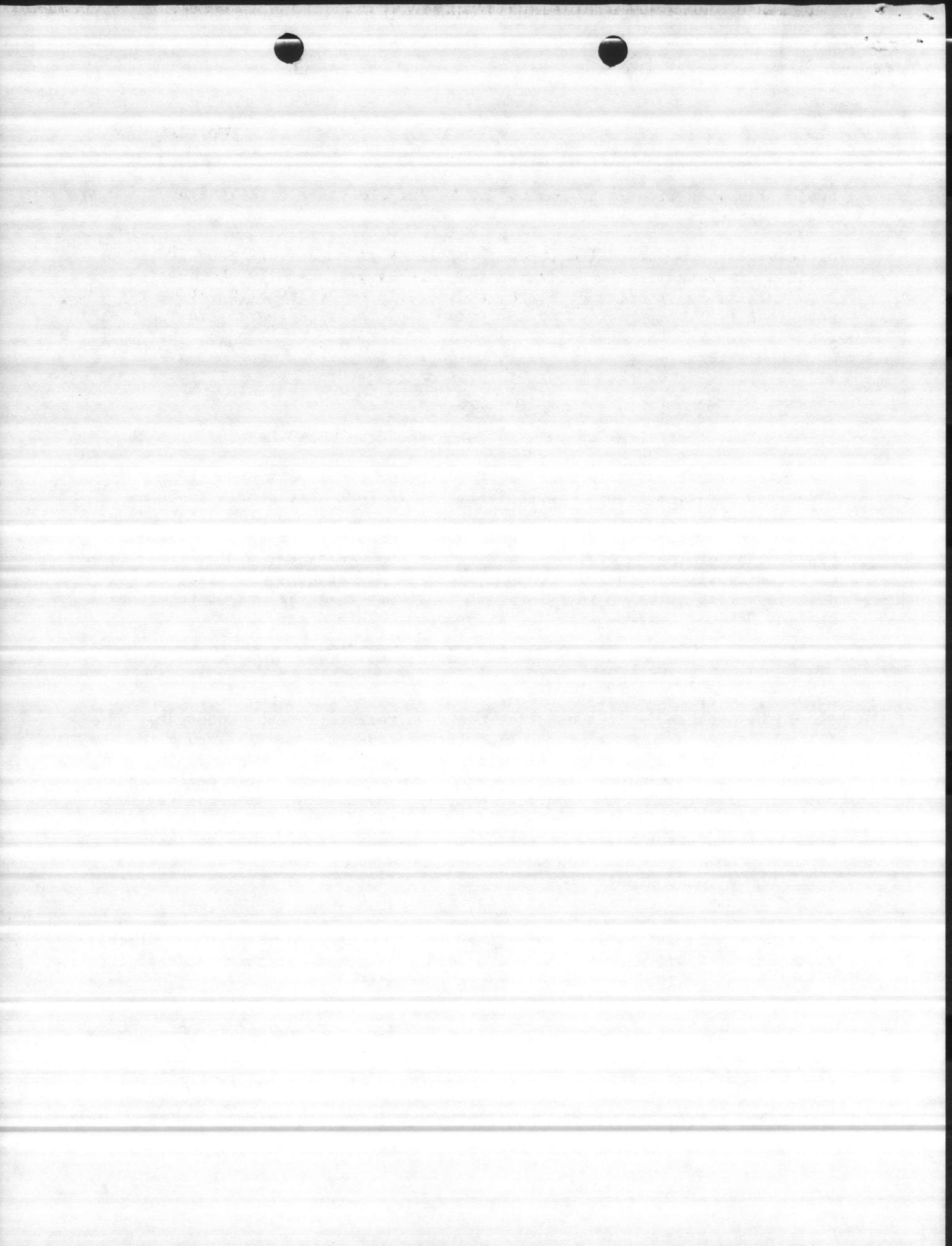
Subj: Proposed license to Onslow County for clearance of drainage outfalls

of culverts, proposed ditch bottom profiles both on and off Base property, maximum discharges to be delivered to each culvert, details of construction work to be performed on Base, and details of drainage improvement work that will be performed on the private sector side (north side) of Highway 24. The engineering plan should address the question of just how much the general water table will be lowered in various areas as a result of the proposed work and should take into account the permeability of the natural soils.

c. The Commanding General, Marine Corps Base, Camp Lejeune urge the County Manager to develop long-range zoning plans for the problem area that will insure adequate control of pollution problems. Even if the water table can be lowered appreciably, it is felt that septic tanks do not provide an adequate method of sewage disposal in the area. At present, septic tank systems are grossly underdesigned in some areas and no amount of lowering of the water table will render them adequate. This matter is of acute importance to this Command since it affects the usability of surface waters entering the Base. It is likely that various state agencies and the EPA may have substantial interests in this matter.

d. When, and if, it is decided that lowering the culverts and stream bed profiles will be of mutual benefit to the private sector and the Command, it appears that an easement is the type of instrument that should be executed. It should include requirements for the County to: (1) provide perpetual maintenance of the easement areas; (2) assume the responsibility for obtaining all necessary permits; (3) guarantee the bacteriological, biological and chemical quality of the water delivered onto the Base (standards should be stated); (4) assume responsibility for preventing erosion during and after construction; and (5) relocate all utility lines, that may be affected, in a manner satisfactory to the Command. Any easements granted to the County would have to conform with easements already granted the State for portions of the streams downstream from the culverts under Highway 24. LANTNAVFACENCOM comments are solicited.

4. In the many deliberations that have taken place regarding this matter, an important basic fact has been overlooked or obscured; that is, that the drainage and pollution problems that are occurring today are, in many cases, the results of improper development. Contour maps dated 1951 show that this entire area was flat and swampy at that time so there is every reason to believe that the current high water table is not a recent phenomenon. The real question, then, is to what extent Marine Corps Base, Camp Lejeune should acquiesce with a request for alterations to Base property for the purpose of enhancing commercial development of off-Base property. It is the policy of this Command to cooperate with the local community to the



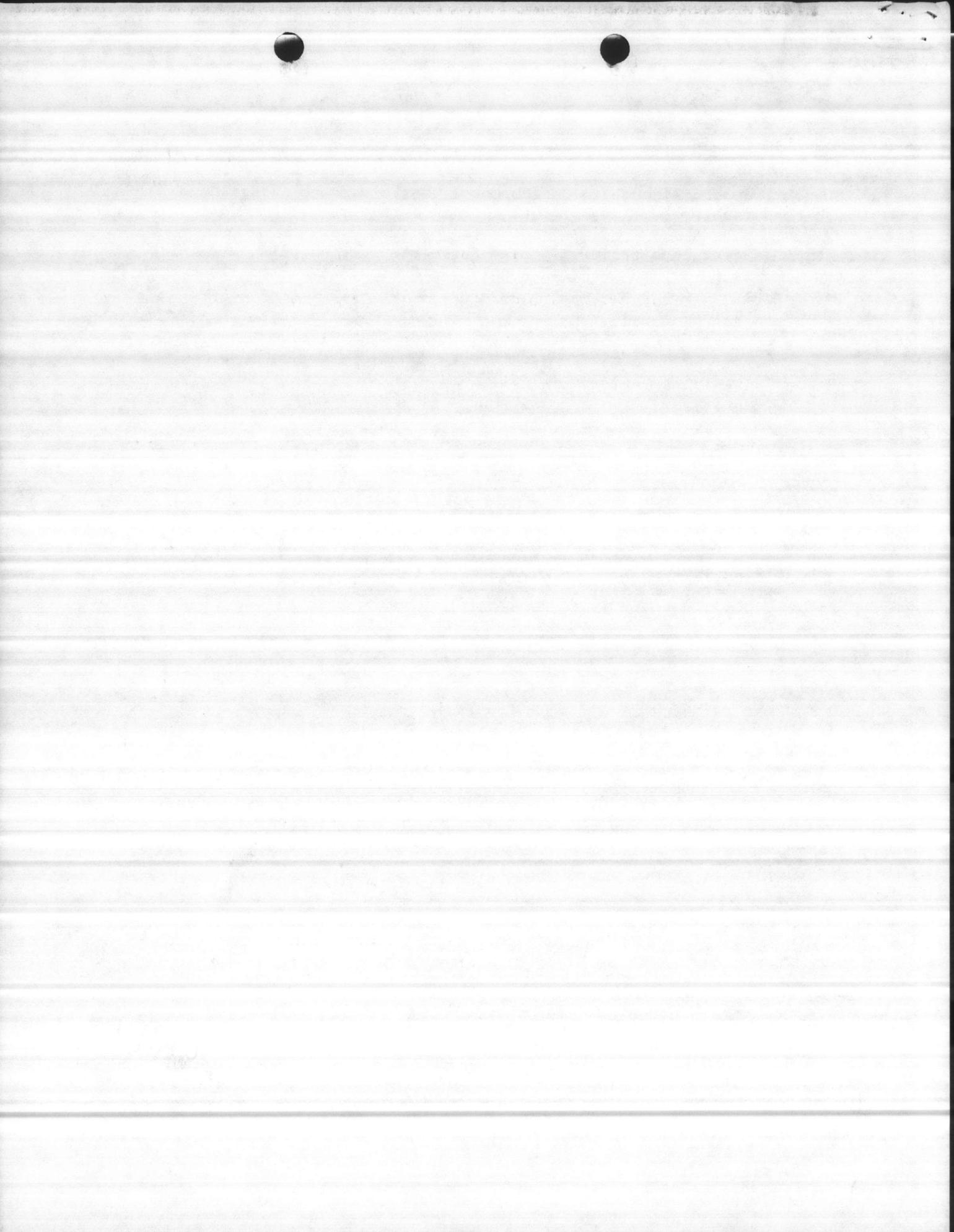
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outfalls

maximum extent consistent with Base interests but, on this particular  
problem, it is imperative that a solid determination be made that the  
plan is a good one and that the Base not incur future liabilities as a  
result of it.

*/s/ B. H. Curwen, Jr.  
Chf of Staff*

Blind copy to:  
AC/S, Fac (w/o encl)



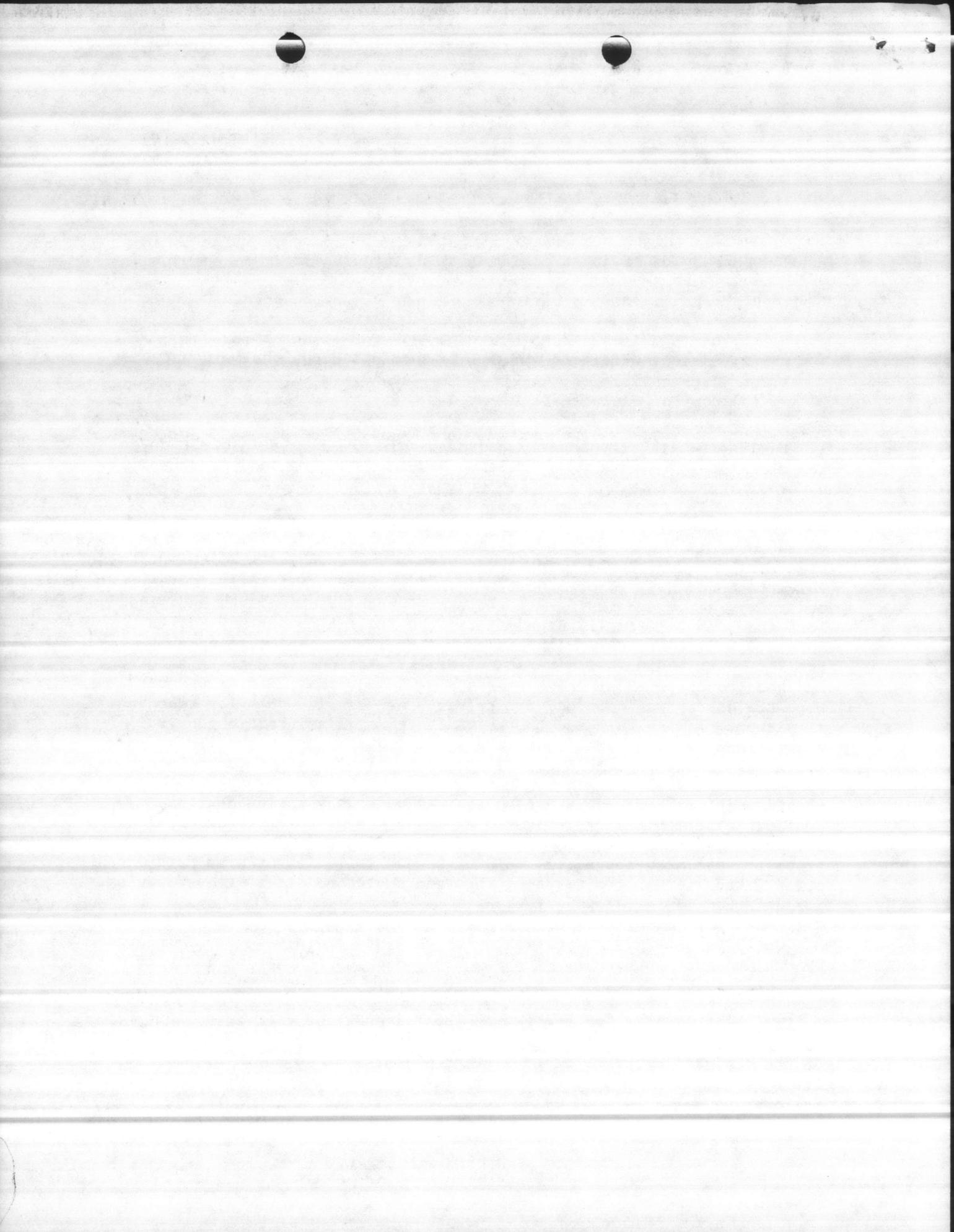
PWO:JBH:dh  
26 Aug 1976

MEMORANDUM FOR THE ASSISTANT CHIEF OF STAFF, FACILITIES

Subj: Proposed license to Onslow County for clearance of drainage outfalls

Encl: (1) LANTDIV ltr 241:RHS over LIC-0-558 of 16 Jul 1976  
(2) AdminO, Office of the County Commissioners, Onslow County,  
Jacksonville, N. C. ltr of 14 Jun 1976  
(3) Copy of Proposed License

1. Enclosures (1), (2) and (3) and all available backup information on the clearance of drainage outfalls on Government-owned land near Hwy. 24 have been reviewed.
2. On 4 August 1976, the day following a rainfall expected once in ten years for this area, Public Works Department personnel inspected the area north of Hwy. 24 between Midway Park and Hubert which drains through culverts under Hwy. 24 onto Camp Lejeune property. All of the culverts under Hwy. 24 were carrying all the storm water reaching them and flowing less than one-half full. High water marks indicated that none of the culverts had flowed full with the exception of the one draining the trailer court behind Marie's Bar and Grill. The entrance to this culvert had been constricted by trash and debris washed from the trailer court. When the debris was removed, the culvert then carried the flow reaching it without flowing full and the hydraulic control shifted to the trailer court drainage ditch itself, which is badly obstructed. The storm water had a very strong odor and was discharging pollutants onto Camp Lejeune property. Several areas north of Hwy. 24 were flooded at the time of the inspection; however, the flooding was caused by an inadequate drainage system within the flooded area and not by culverts under Hwy. 24. The outfall ditches from the culverts which flow through Camp Lejeune property were also inspected. All of the outfall ditches were carrying off all the storm water reaching them and showed no signs of ever having impeded the flow of storm water.
3. On 10 August 1976 the culverts, outfall and areas were again inspected by PWD and NREA personnel. The findings were the same as on the previous inspection.
4. It is the opinion of the PWD engineers, and concurred in by NREA, that deepening the outfall ditches on Camp Lejeune property would have no effect on the drainage or water table elevation of the areas north of Hwy. 24. It is questionable that the water table would be lowered appreciably even by lowering both the road culverts and outfall ditches. A thorough hydrological study of the area would have to be made in order to determine



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if the water table could be lowered. If the outfall ditches on MCB, Camp Lejeune were dredged, there would be an adverse effect on both the fauna and flora of the adjacent region and siltation or erosion problems might develop.

5. The areas north of Hwy. 24 definitely need an adequate storm drainage system to handle the surface runoff and prevent flooding; however, this will not solve the pollution problem caused by too many septic tanks too close together in low lying areas. This problem can be solved only by the elimination of faulty septic tanks and prohibiting the installation of additional ones in unsuitable areas. Even with the installation of an adequate drainage system, the danger of polluting the shallow wells in the area will exist as long as the septic tanks remain. In all likelihood, community or regional sewage treatment facilities will be required.

6. On 24 June 1971 the United States of America granted a perpetual easement to North Carolina State Highway Commission for the construction, operation and maintenance of Hwy. 24 including the drainage structures and outfall ditches. The parcels described in Addendum No. 1 to enclosure (3) include the same drainage structures and outfalls covered in the easement to N. C. State Highway Commission of 24 June 1971.

7. It is recommended that the license not be granted to Onslow County for the following reasons:

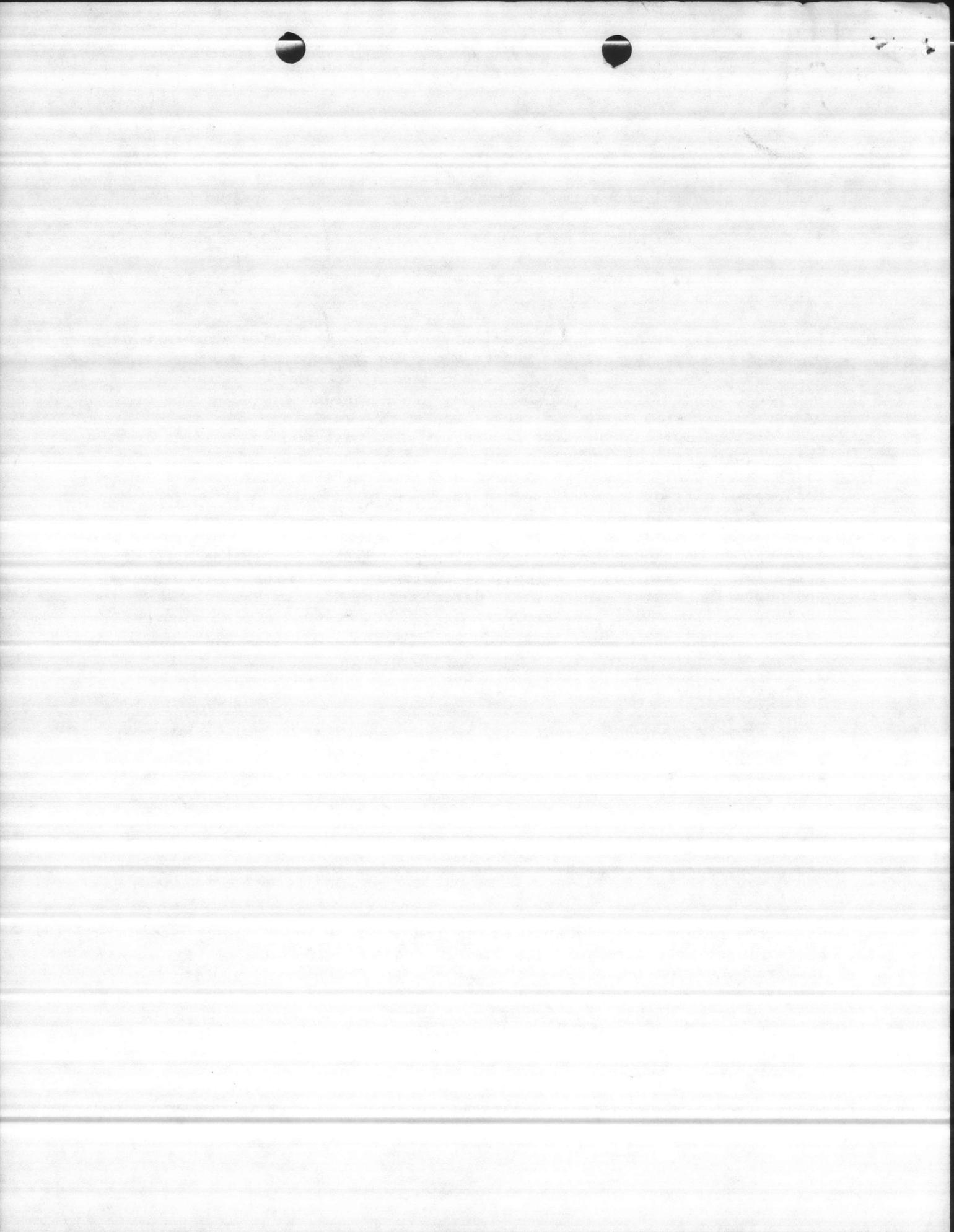
a. The Government has already granted perpetual easements for portions of the outfalls to the State Highway Commission of the State of North Carolina.

b. Dredging the outfalls would have no effect on the water table of areas north of Hwy. 24.

c. Dredging the outfalls would have an adverse effect on the environment of the adjacent areas.

Since the privately-owned property to the north of Hwy. 24 will undoubtedly be developed intensively in the future, the pollution problem will remain and grow worse unless proper corrective action is taken. It is recommended that MCB, Camp Lejeune take the initiative of establishing a joint planning group with Onslow County to study the problem and develop a long-range plan of action that will be effective and acceptable to all concerned.

R. A. EARNST  
CDR, CEC, USN  
Public Works Officer





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NAVAL FACILITIES ENGINEERING COMMAND  
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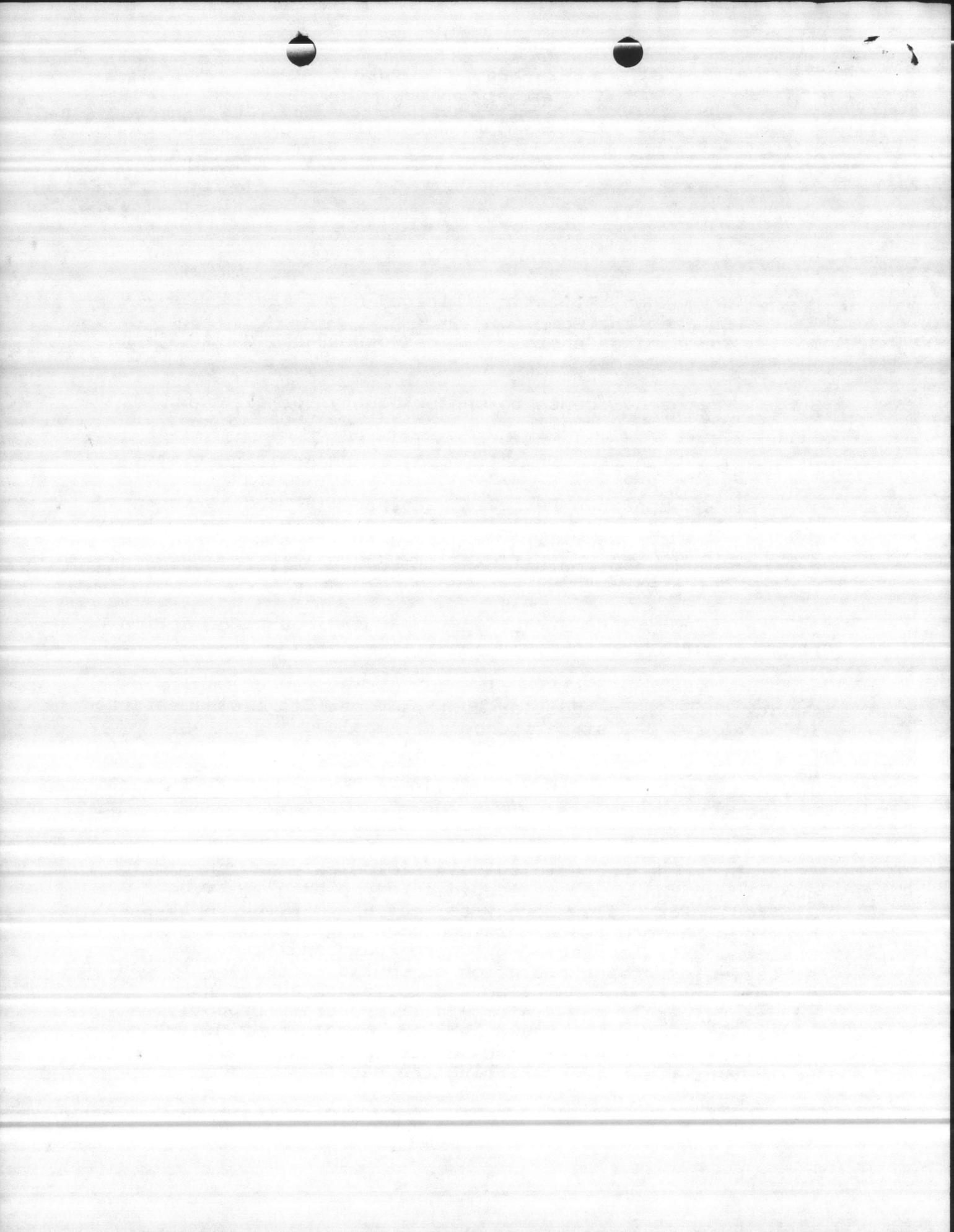
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