



**UNITED STATES MARINE CORPS**  
2d Marine Division, Fleet Marine Force  
Camp Lejeune, North Carolina 28542-5500

IN REPLY REFER TO:

11000  
G-4 ENGR  
10 Jun 86

From: Commanding General, 2d Marine Division, FMF  
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina (Attn: AC/S Facilities Officer)

Subj: PRELIMINARY ENVIRONMENTAL ASSESSMENTS (PEA) FOR EXPANSION OF THE G-10 FIRING RANGE AND THE ENGINEER TRAINING AREA

Ref: (a) CG, MCB ltr 6280 FAC of 6 MAY 86  
(b) CG, 2d MAR DIV ltr 11000 G-4 ENGR of 29 Jan 86  
(c) CG, 2d MAR DIV ltr 11000 G-4 of 25 Mar 86

Encl: (1) PEA for the G-10 Range  
(2) PEA for the Engineer Training Area (ETA)

1. Reference (a) requested the submission of Preliminary Environmental Assessments (PEA) for the expansion of the G-10 Range, the Mechanized Movement Course (MMC) and the Engineer Training Area (ETA). PEA's for the G-10 and ETA projects are appended herein as enclosures (1) and (2). The PEA for the Mechanized Movement Course was submitted via reference (b).

2. As noted in reference (c), this command is prepared to support drafting of needed Environmental Assessments (EA). Because of the anticipated delay in accomplishing an EA via contract, we recommend that the effort be completed "in-house" by Marine Corps Base supported by 2d Marine Division.

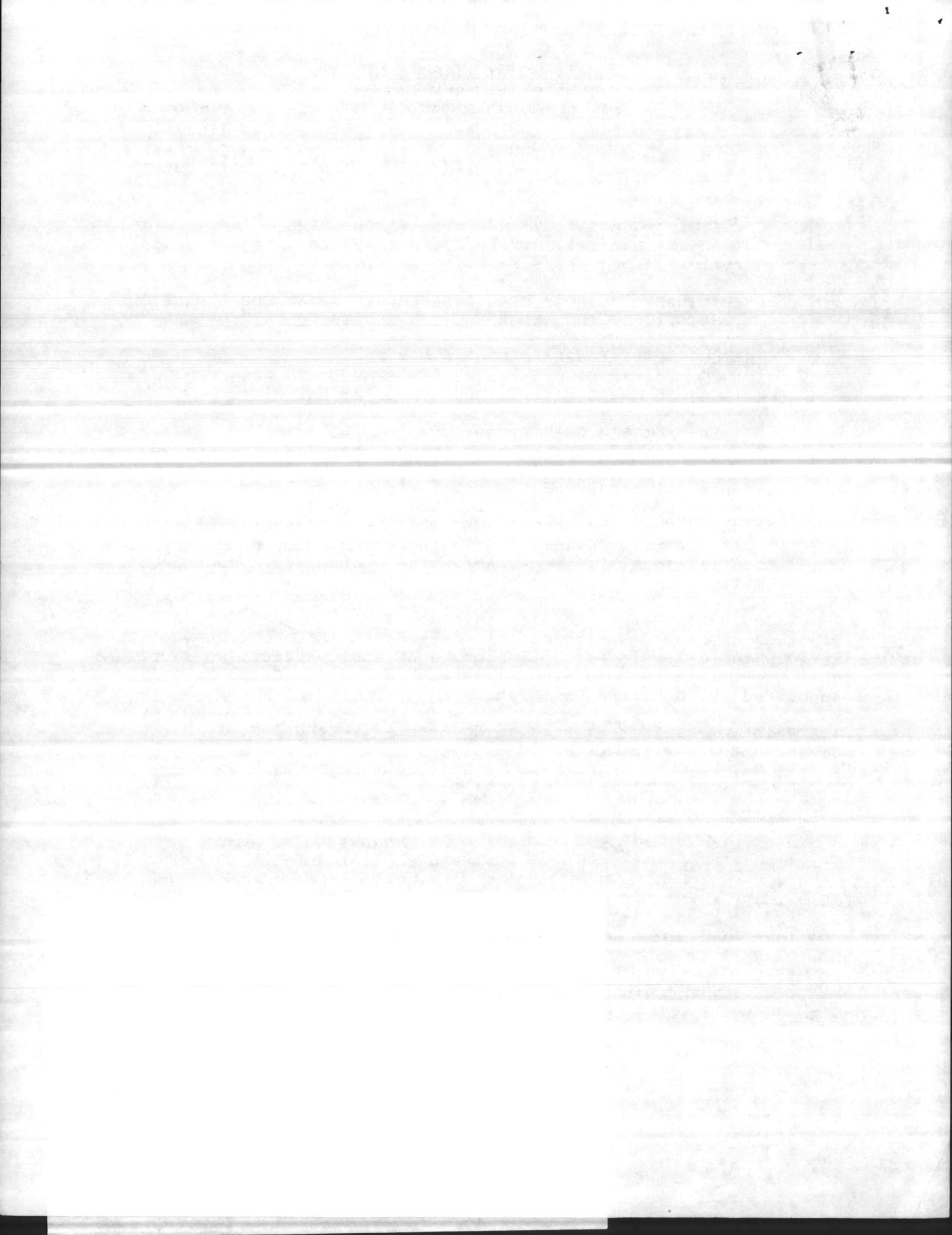
3. Point of contact at this headquarters is Lt Col J. A. Marapoti, Division Engineer at extensions 5111/2417.

R. M. MURPHY  
By direction

Copy to:  
AC/S G-3T  
CO, 10th Mar Regt  
CO, 2d Tank Bn  
CO, 2d CEB

*top,*  
*Deliver to Mr. Hasagen at*  
*Rsg Contact.*

*Rm*





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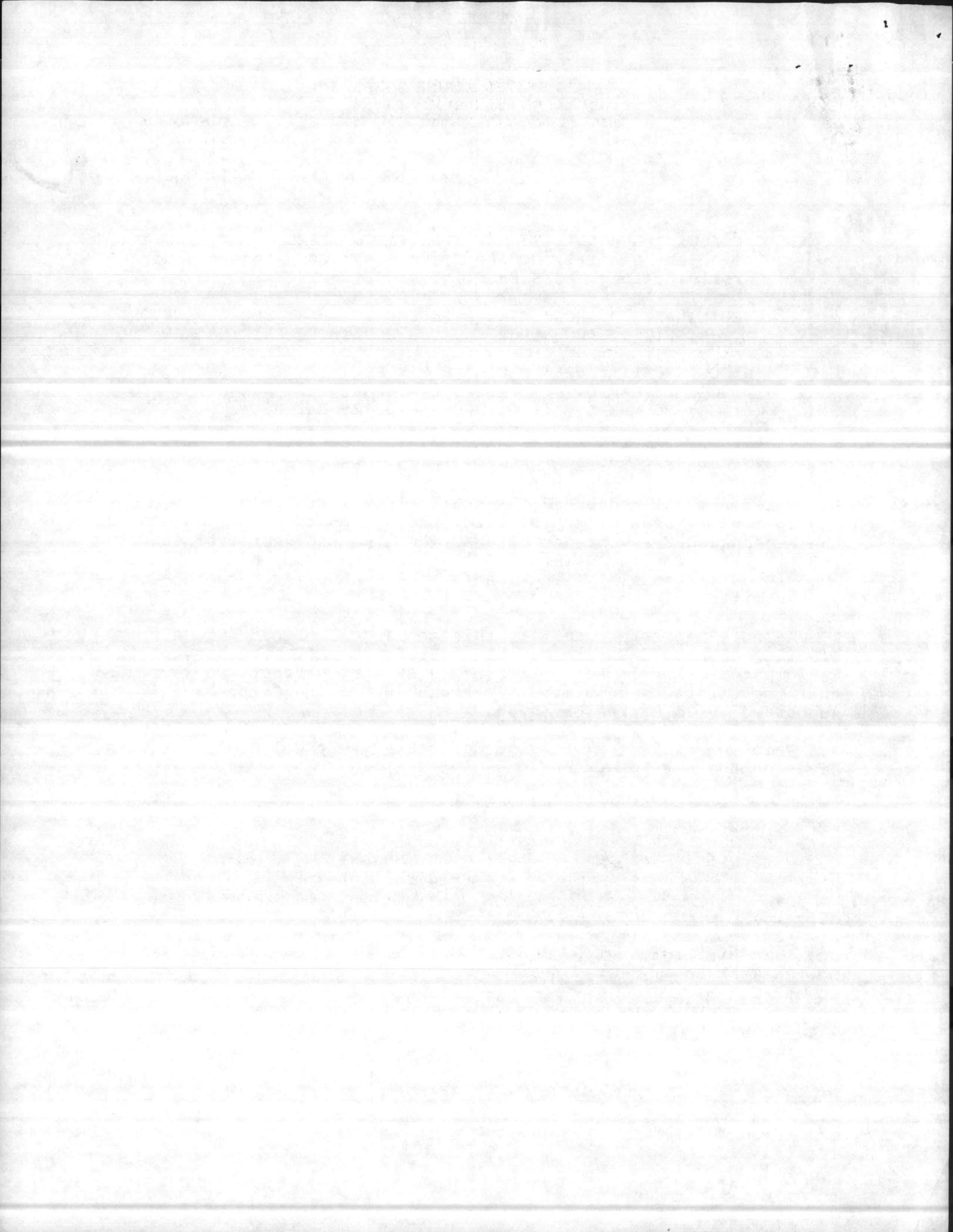
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AC/S G-3T  
CO, 10th Mar Regt  
CO, 2d Tank Bn  
CO, 2d CEB





**UNITED STATES MARINE CORPS**  
10th Marines, 2d Marine Division, FMF  
Camp Lejeune, North Carolina 28542-5515

IN REPLY REFER TO  
11020  
CO  
29 May 86

**From:** Commanding Officer, 10th Marines  
**To:** Commanding General, 2d Marine Division, FMF (Attn: DivEngr)  
**Subj:** REQUEST FOR ENVIRONMENTAL IMPACT REVIEW: G-10 EXPANSION/MOBILE  
OBSERVATION CIRCUIT COURSE

**Ref:** (a) PhonCon 10th Marines (Capt Matthews)/2d Marine Division (LtCol  
Marapoti) of 23 May 86  
(b) Base Order 11000.1B  
(c) CO, 10th Mar ltr 11102 CO 28 Feb 86  
(d) Meeting of 4 Feb 86 between 10th Marines, Range Control Off, EOD  
Off, and Base Environmental Engineer  
(e) CO, 10th Mar ltr 11019 CO of 15 Jan 86

**Encl:** (1) Proposed Expansion of G-10 Impact Area  
(2) Mobile OP Circuit Course  
(3) Initial Rough Environmental Disturbance of Affected Area Expansion  
(4) Factors for Enlargement of G-10 Impact Area

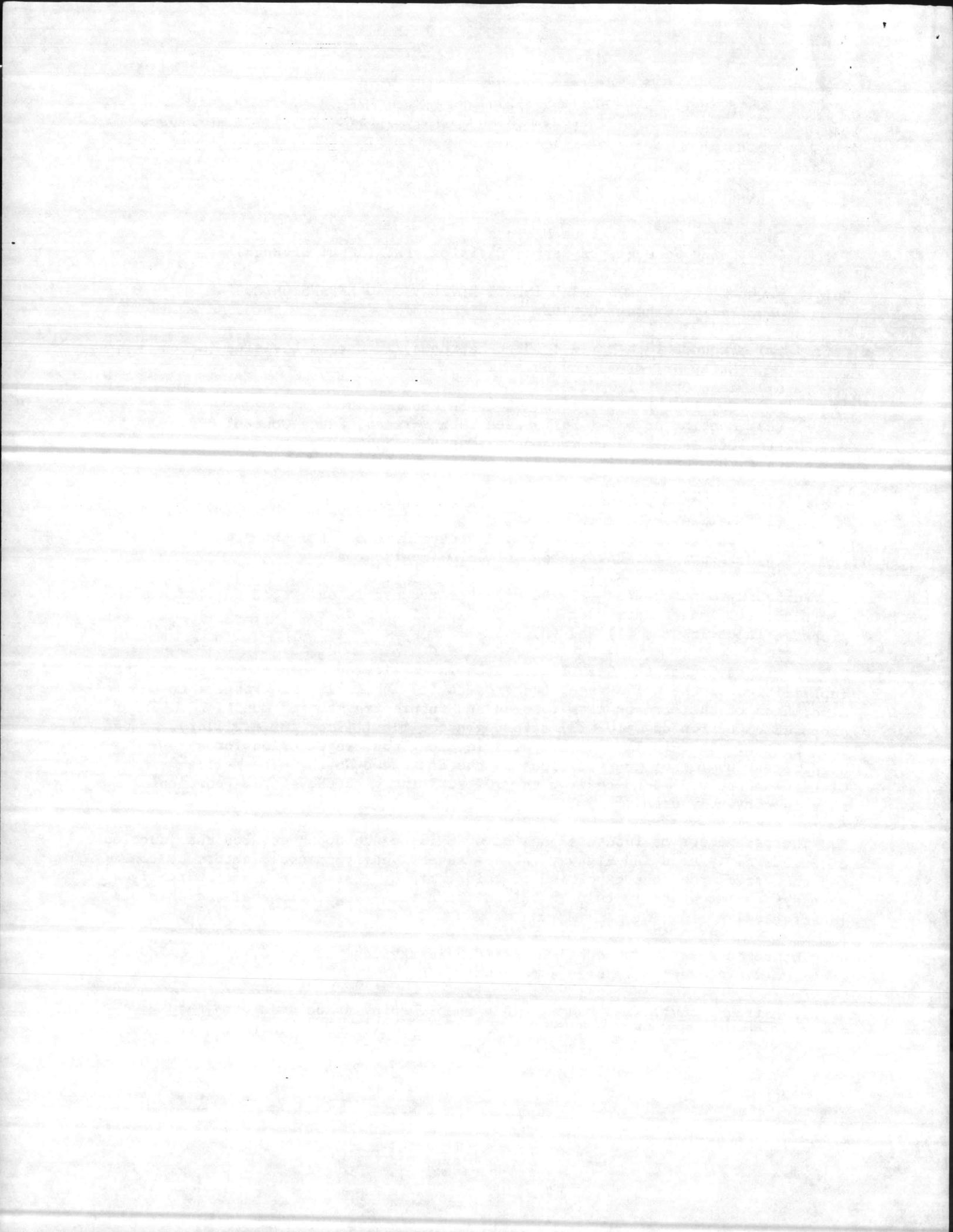
1. Pursuant to references (a) and (b) this request is submitted to commence the Environmental Impact Review of the G-10 Expansion/OP Circuit Course as initially proposed in enclosures (1) and (2).

2. The expansion of the G-10 Impact Area is considered necessary to enhance the capabilities of the G-10 Range, (references (c) and (e)), with respect to absorption of the effects from current and future fragmenting munitions. The proposed expansion of G-10 will afford greater flexibility for artillery, as the long axis of the G-10 Impact Area will be along the trajectories for a significant number of gun positions to the South and North. The Mobile OP Circuit Course will lend realism to F.O. training vice the static positioning that is currently used.

3. The parameters of future expansion of G-10 to the South towards the junction of Sneads Ferry Road and Highway 172 has several environmental factors to consider that are beyond the expertise of this command. Enclosure (3) graphically displays the area and by color outlines the natural vegetation/habitat that will be affected.

4. The Potential Environmental Impact/Considerations that must be addressed as required by reference (b) are as follows:

a. Air Quality: Will there be any open burning associated with the project/action? UNKNOWN. Will there be any new boilers, incinerators or fuel



c. Groundwater Quality: Does the project involve use of herbicides, insecticides or other pesticides in significant amounts? YES. Does the project involve installation/use of septic tanks, or any other on-site disposal of sanitary waste? NO. Will there be any wells dug or any excavations deeper than twenty feet? NO. Will any toxic or hazardous material/waste requiring disposal be used or generated by the project UNKNOWN. Will the project or action be carried out within 200 feet of a drinking supply well? UNKNOWN.

d. Surface Water Quality: Is the project located on or in a water body or adjacent to a 100-year flood plain? UNKNOWN. Will the project involve construction of drainage ditches/underground drains for purposes of lowering water table? UNKNOWN. Will all water waste be connected to sanitary sewer? UNKNOWN. Will there be an increase in erosion/siltation from soil disturbing activity? UNKNOWN. Will petroleum oil and lubricants be routinely stored or used at the site? NO. Will the project increase rates of surface/storm water run-off? UNKNOWN.

e. Natural Resources: Will there be a loss of forest land? YES. Will public access for hunting, boating, fishing, etc., be restricted? YES. Is there a change in land use from what is presently shown in Base Master Plan? YES. Will removal of existing vegetation be required? YES. Are there any known effects on any endangered species? YES. Does the project involve the purchase or sale of any real estate? NO.

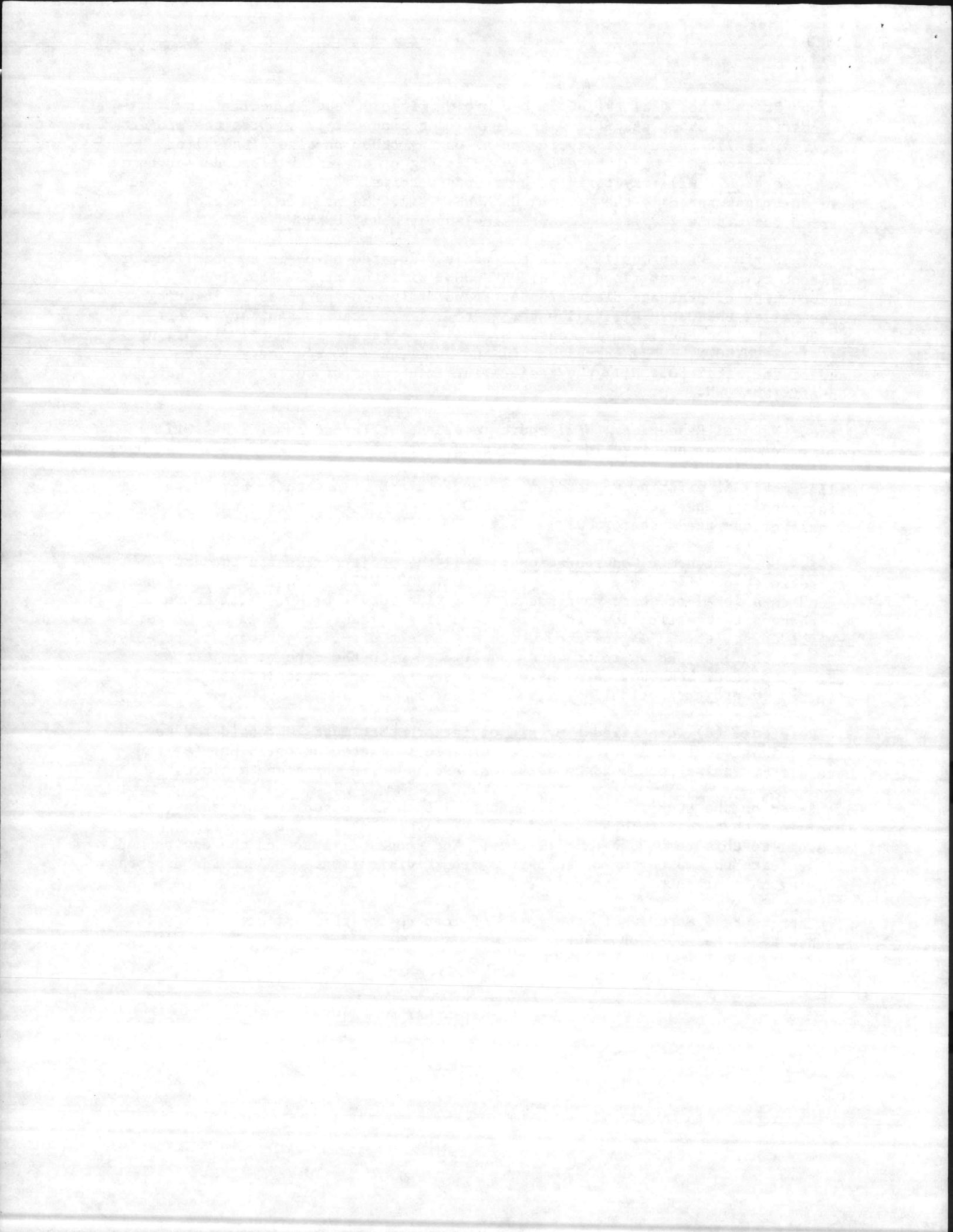
f. Socio-Economic Considerations: Will the project cause an increase/decrease in on or off-base military population? NO. Will there be any increased demand on a local or state government to provide services? NO. Will there be any changes to traffic flow and patterns on or off-base? NO. Will any noise, traffic, dust, etc., be generated which may affect off-base persons or property? YES. Is there any known controversy associated with the type of project or action proposed? UNKNOWN. Are there any historical or archaeological sites affected by project/action? NO.

5. Reference (d) identified a myriad of factors that must be considered to bring this project on line. These factors are submitted as enclosure (4) and were used to answer many of the questions addressed in paragraph 4 above.

6. Based on the significant environmental issues addressed in enclosure (4), it is obvious that many issues remain to be resolved that require expertise external to this command's capabilities. The scope of impact on the environment will require the mustering of resources from Division, Base and outside experts to bring this project to its full completion.

7. Captain P.J. Matthews is the point of contact for this subject and may be reached at either 5527 or 1640.

  
J. B. WAY

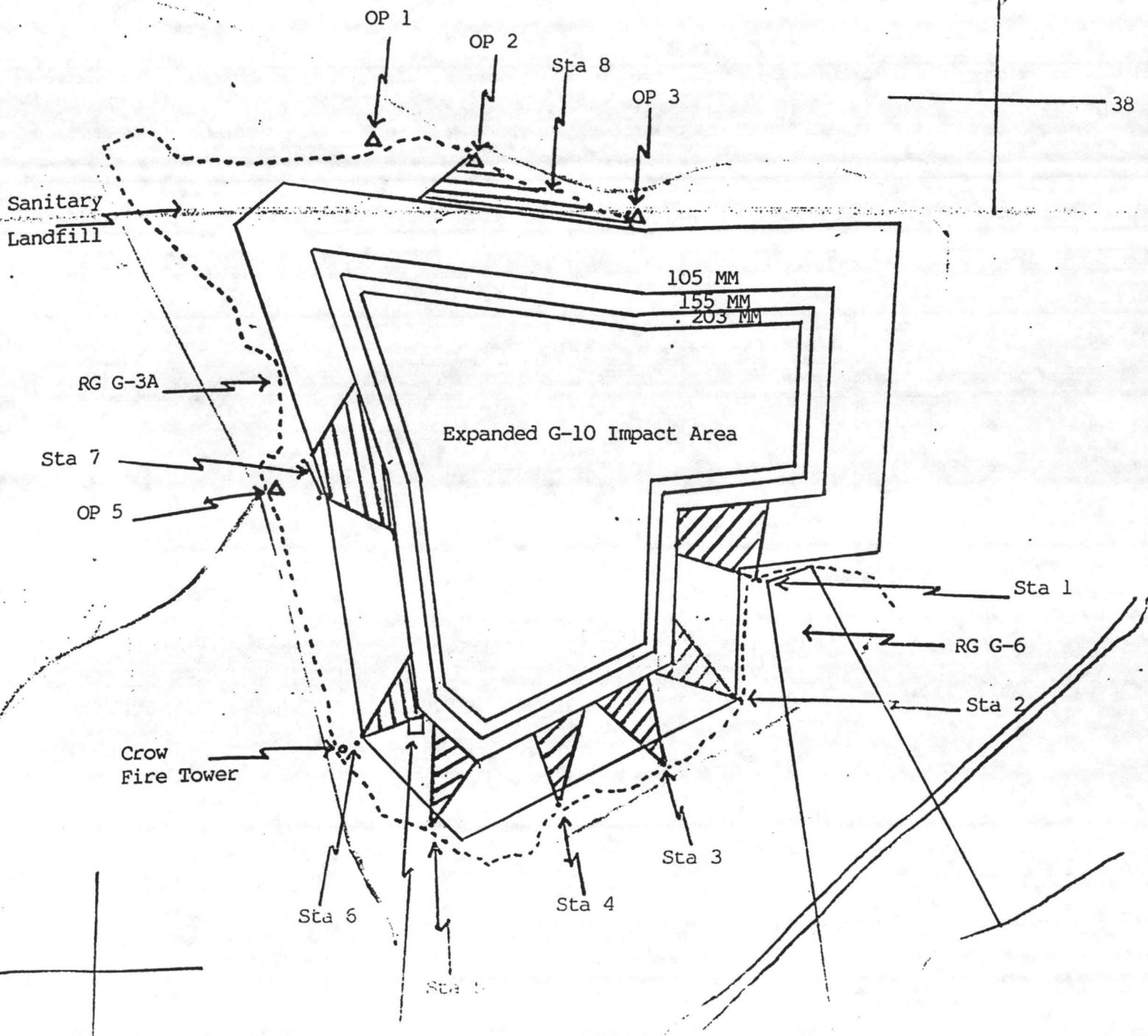


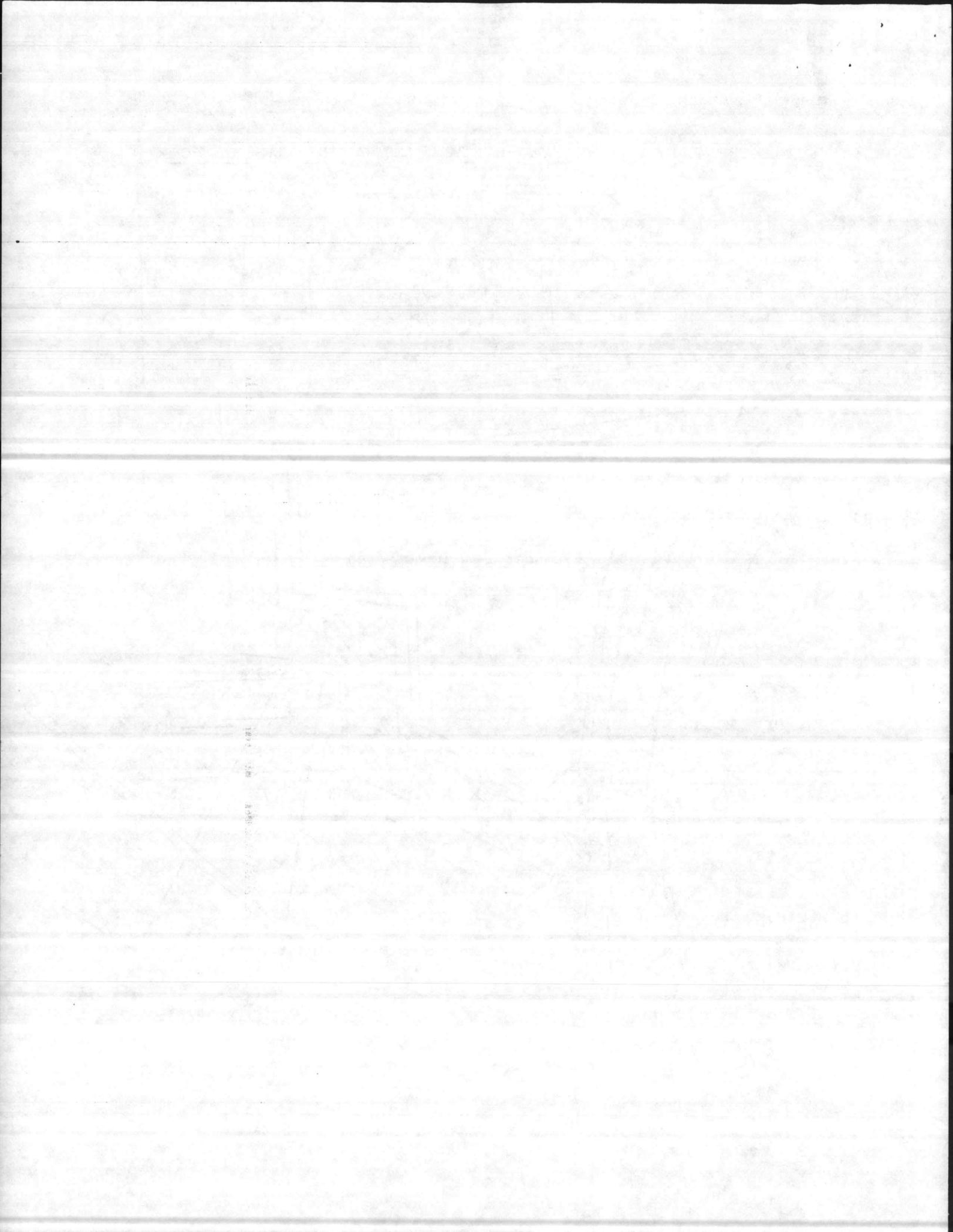
MOBILE OP CIRCUIT COURSE FOR AAV/LAV/TANKS AND WALKING COURSE STATIONS

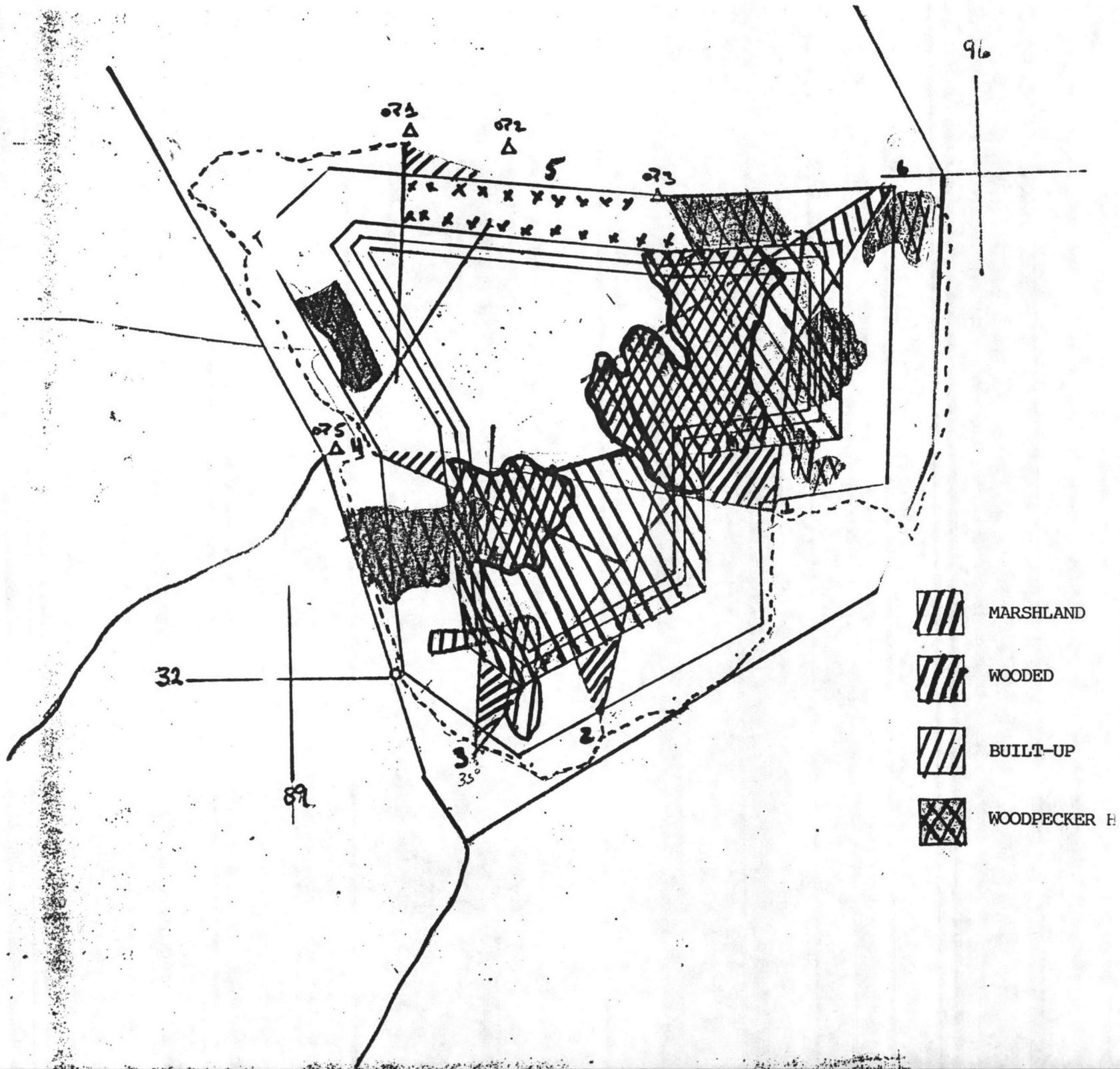
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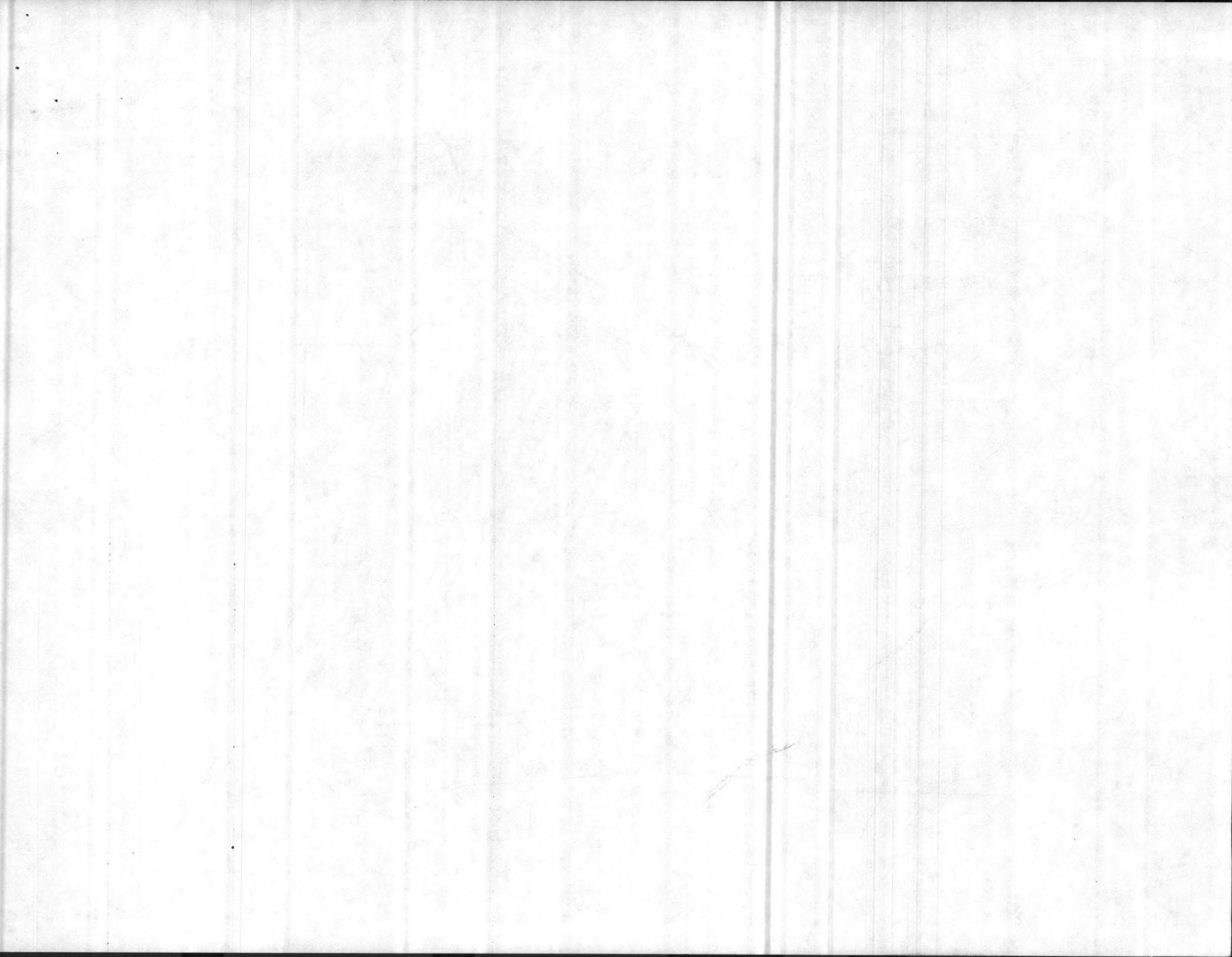
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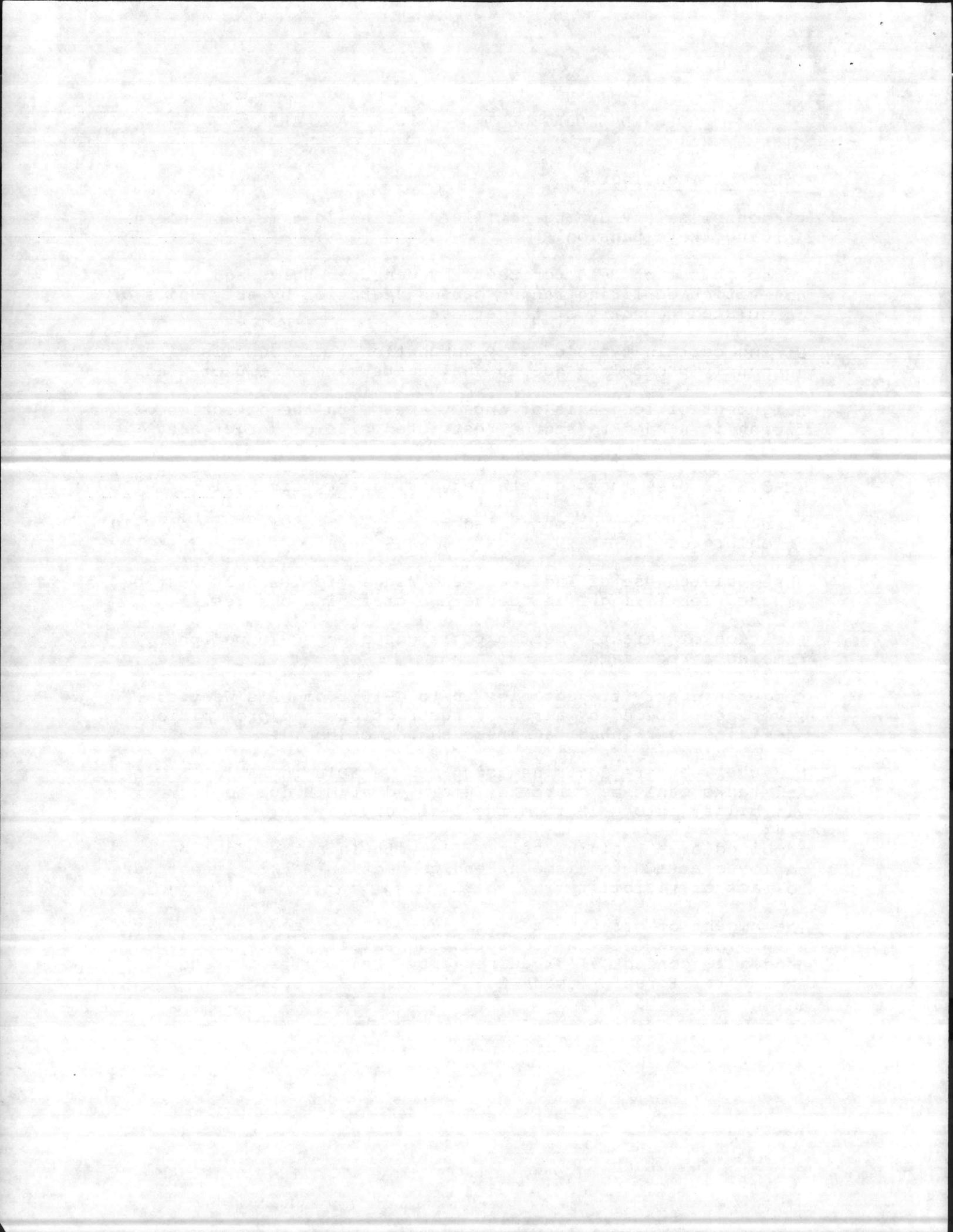


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PROPOSED ENLARGEMENT OF G-10 IMPACT AREA

I. Factors to consider

- Personnel safety during artillery firing is a major concern driving the expansion.
- Encroachment on G-10 periphery by maneuver units and activities on firing ranges causes reduction by arty units of calculated boundary of target area.
- Firing certain types of arty ammunition (i.e., ICM) is currently prohibited due to inadequate size of impact area.
- Alignment of long axis of impact area with the direction of firing is needed to reduce restricted size of target area.
- Concurrent use of live firing ranges located on the periphery (G-3, G-3A, G-6) must be retained during arty firing into G-10.
- Relocated "F" ranges must also be compatible with use of G-10 as enlarged.
- Unrestricted use of Engineer Demo range vic TLZ Crow must be assured for firing line charge and cratering charges.
- Location of infantry mortar positions along G-10 periphery remains a requirement.
- Long-range arty trajectories into G-10 from <sup>most</sup> GP's west of New River are impeded by airspace restrictions and prohibitions on firing over inhabited areas and ammo dump.
- Maneuver warfare doctrine using mobile FO's in AAV's, LAV's and tanks can't be currently employed at MCB due to lack of visibility into G-10 from the periphery.
- Combined arms training using FO's with infantry can't be employed at MCB to dismount and conduct a "walking shoot" due to lack of visibility.
- The amount of off-base arty training <sup>of new GP's and improvements to</sup> is not reduced by only enlarging the G-10 IA; construction <sup>of new GP's and improvements to</sup> existing GP's would be needed to conduct all required arty training <sup>here</sup> ~~there~~, such as Regimental Firex's (using 27 GP's), vice Ft. Bragg.



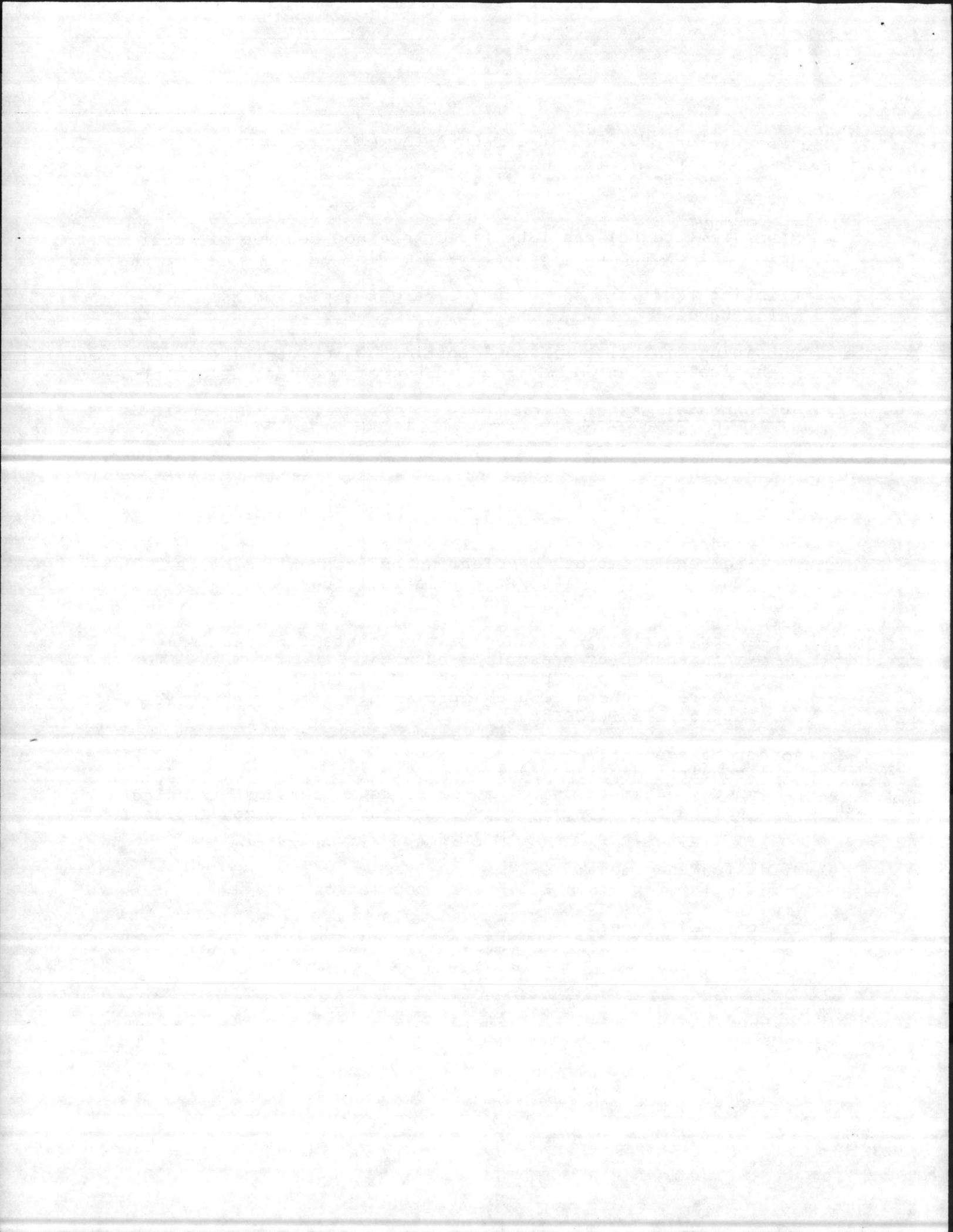
## PROPOSED ENLARGEMENT OF G-10 IMPACT AREA (c'd)

### I. Factors to consider (c'd)

- "Shoot-and-Scoot" arty training is not affected by the size of IA.
- MLRS (~~next~~ <sup>inert</sup> round) can't be fired here now because of small size of impact area (requires 7-8km-wide IA).
- Existing roads are adequate for target emplacement & maintenance.
- Obtaining visibility in some portions which can't be mechanically cleared may require use of chemical defoilants.

### II. Environmental Issues Associated with Proposed Enlargement

- 1) Blast Noise: increased levels require documenting before-and after-levels affecting both on-base and off-base properties.
- 2) Endangered Species/Red-cockaded Woodpecker:
  - requires consultation with USFWS
  - addresses newly-found colony vic G-4
  - addresses impacts of clearing on existing colonies
  - uses data from 1985/86 population study
- 3) Wetlands
  - assumes minimal drainage improvements for area *requiring* maintenance by prescribed burning
  - uses data mapped by US Fish & Wildlife Service
  - clearing (and drainage improvements, if any) requires approval by USCOEngrs
- 4) Forest Management: <sup>of</sup>
  - requires mapping <sup>of</sup> areas to be harvested/cleared
  - needs estimate of volume of marketable timber affected
  - estimated long-term loss of revenue due to conversion to IA
  - *needs estimated schedule of harvesting program*
- 5) Wildlife Management:
  - define impact on Black Bear population
- 6) Coastal Management:
  - increased runoff into Freeman's Creek due to land clearing *should be addressed*
- 7) Arch/Historical Sites:
  - no known sites of significance



PROPOSED ENLARGEMENT OF G-10 IMPACT AREA

III. National Environmental Policy Act/MCO 11000.8B

- require Environmental Assessment (EA) for submission to the HQMC EIS Board *per MCO*
- recommend request LANTDIV develop EA

