

Gantt Huberman Architects

112 West 5th Street
Charlotte, NC 28202
704 334-6436

Larry Hub
Fred E
Karen KMT
7/1/83

November 20, 1987

Commanding General
Public Works Division
Attn: Mr. Fred Estes, Jr.
Building 1005
Marine Corps Base
Camp Lejeune, NC 28542-5001

Re: Combat Vehicle Maintenance Shop, Hadnot Point
FY-88, MCON Project P-678
Camp Lejeune, NC
A-E Contract N62470-84-C-8730
Construction Contract No. N62470-86-6151

Gentlemen:

In accordance with our contract, we are enclosing for your review the Prefinal (90%) Submittal dated 15 November 1987 as follows:

1. Plans; three (3) sets.
2. Draft Specifications; three (3) sets.

Please forward your comments as soon as possible to Atlantic Division, Naval Facilities Engineering Command, Attn: Susan Gayle.

Please let us know if you have any questions during your review.

We look forward to your response.

Sincerely,



Jeffrey A. Huberman, AIA
Gantt Huberman Architects

Enclosures as above

cc: Susan Gayle; LANTDIV

JAH/jt
298

GEARING GIBBS

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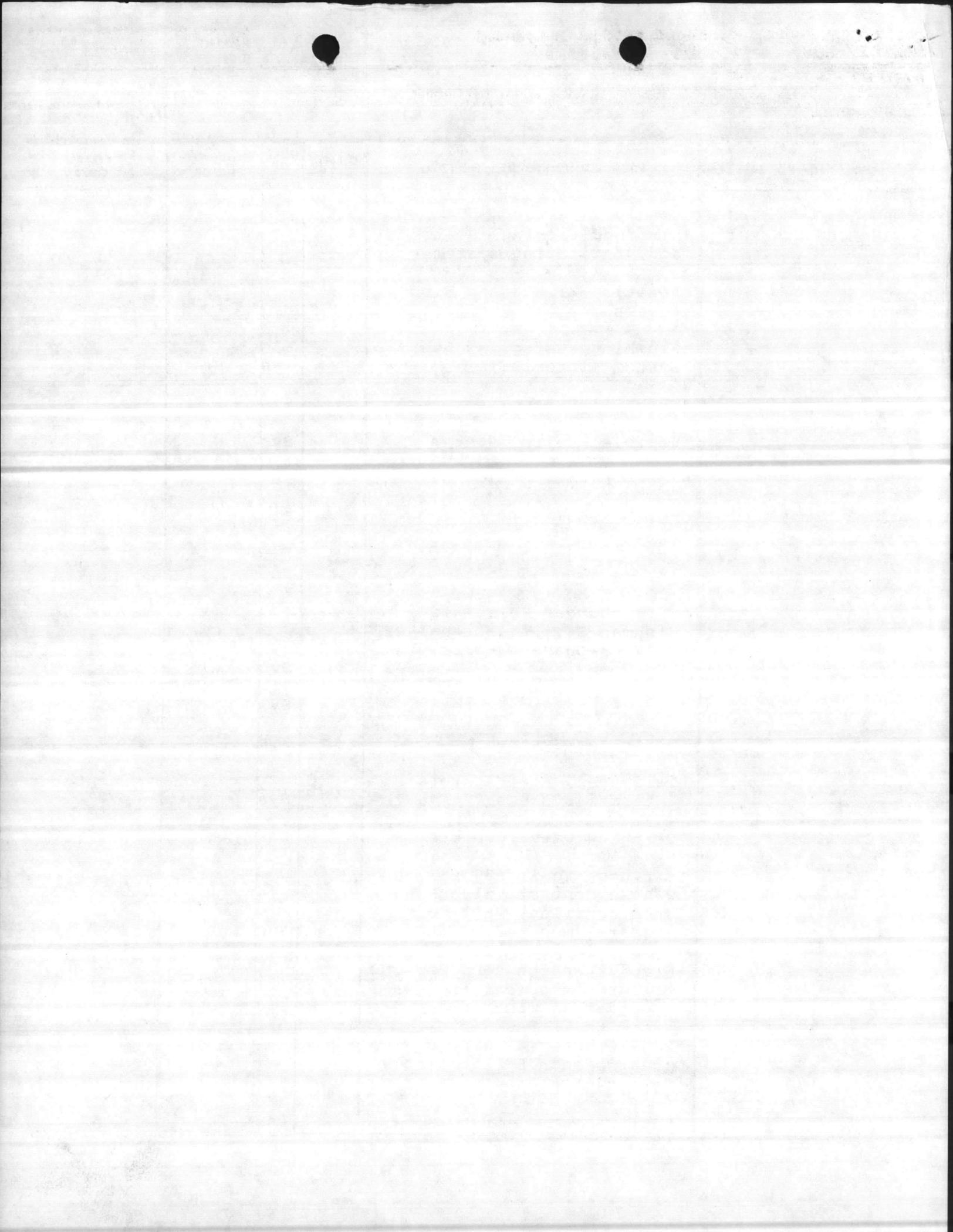
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1. ACTIVITY (Name and Location)
 MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

2. PROJECT TITLE
 COMBAT VEHICLE MAINTENANCE SHOP

P. NO.
 P-678

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
1. BUILT IN EQUIPMENT TO BE MCON FUNDED:	*Air Conditioning, Heating and ventilating system		Sys		
	*Venetian Blinds and Window screens		Ea		
	*Plumbing System and Steam system (interior)		Sys		
	*Used Oil System		Sys		
	*Vehicle Fueling System		Sys		
	*Lockers		Ea		
	Chalkboards		Ea		
	*Engine starting outlets: 12, 24, and 36 Volts		Ea		
	*Tire changer, elec-air Bishman Co., fractional HP 280V, 3-phase, 3-wire, 150 PSI Compair		Sys		
	*Compressed Air System		Sys		
	*Sprinkler System		Sys		
	*Telephone, Fire Alarm & Intercom Systems		Sys		
	*Drinking water coolers		Ea		
	*Air hose reel, 150 PSI, HD w/hose control valve & hose stop (ceiling, wall, or pedestal mounted)		Sys		
	*Elec extension cord reel, HD w. cord stop (ceiling, wall, or pedestal mounted)		Sys		
*Pass window, 4' wide w/ counter and "B" label roll down shutter		Ea			
*Public Address System		Ea			

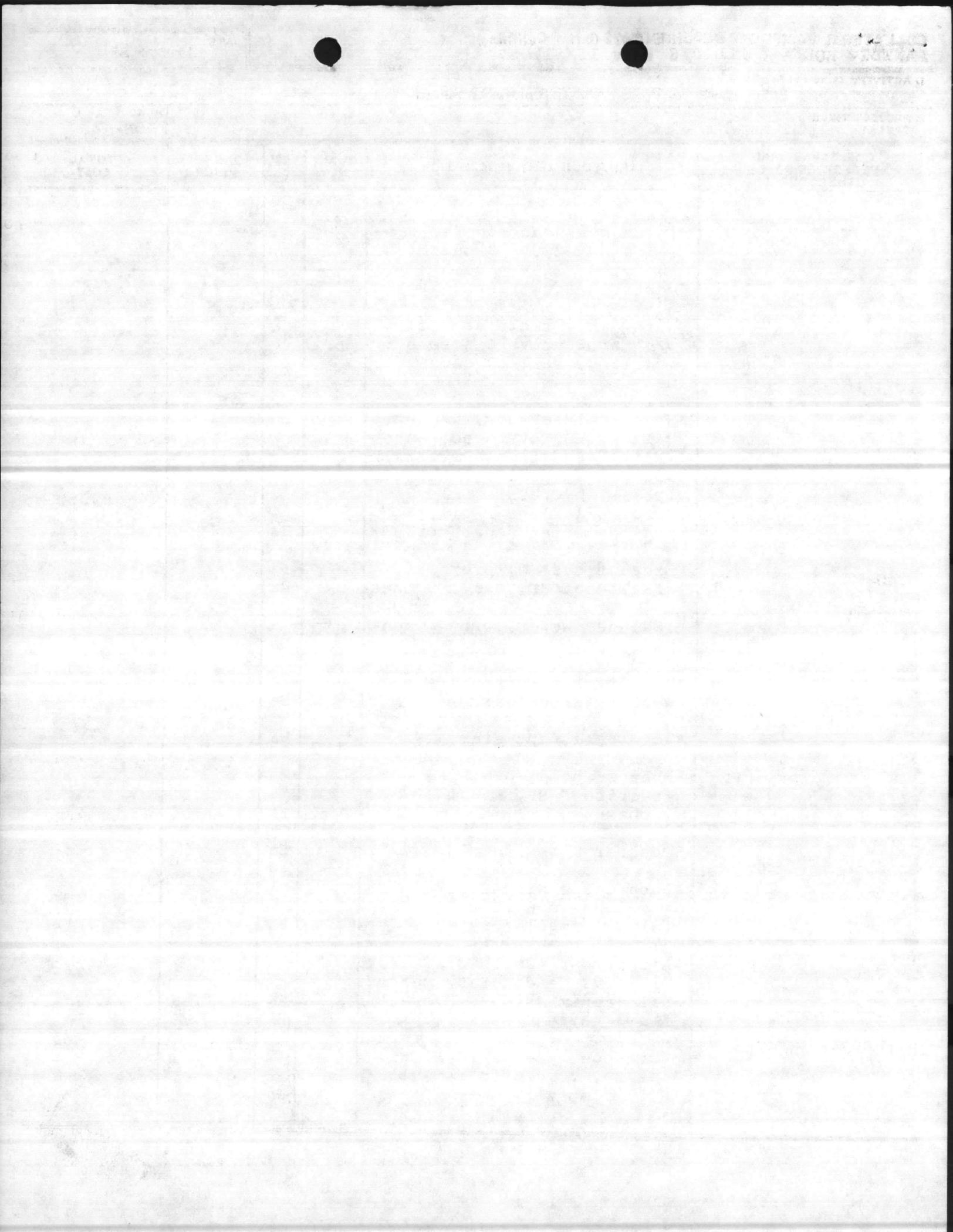


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COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	*1 ton overhead monorail 1-1/4 HP, 220V, 3-phase, 60 cycle, 120V power to controls & switches		Ea		
	*Water Hose reels assembly, w/control valve & hose stop (ceiling, wall or pedestal mounted)		Ea		
	*Hose reel assembly, w/control valves, HD, overhead, auto- matic hose stops & meters, 150 PSI comp air, 1 chassis lube, 1 hydraulic oil, 2 motor oil, 1 gear oil, provide water separator.		Ea		
	*Exhaust system, overhead, fractional HP, 220V, 3 phase		Ea		
	* Deluge shower, w/eye wash CW		Ea		
	*Outlets for portable Arc welder (grounded)		Ea		
	*Acid resistant sink, CW		Ea		
	*Exhaust hood (over), fractional HP, 110V, 1 phase		Ea		
	*Counter Dispatcher's		Ea		
	*Lube dispensing eqpt w/access (couplers, valves, regulators)		Ea		
	*Air pumps, 400 lb drums for oil (overhead, gear, motor oil transmission & Hydraulic fluid as required		Ea		
	*Twin post pneumatic lifts, one HD, 24,000 lb cap, 150 PSI, comp air		Ea		

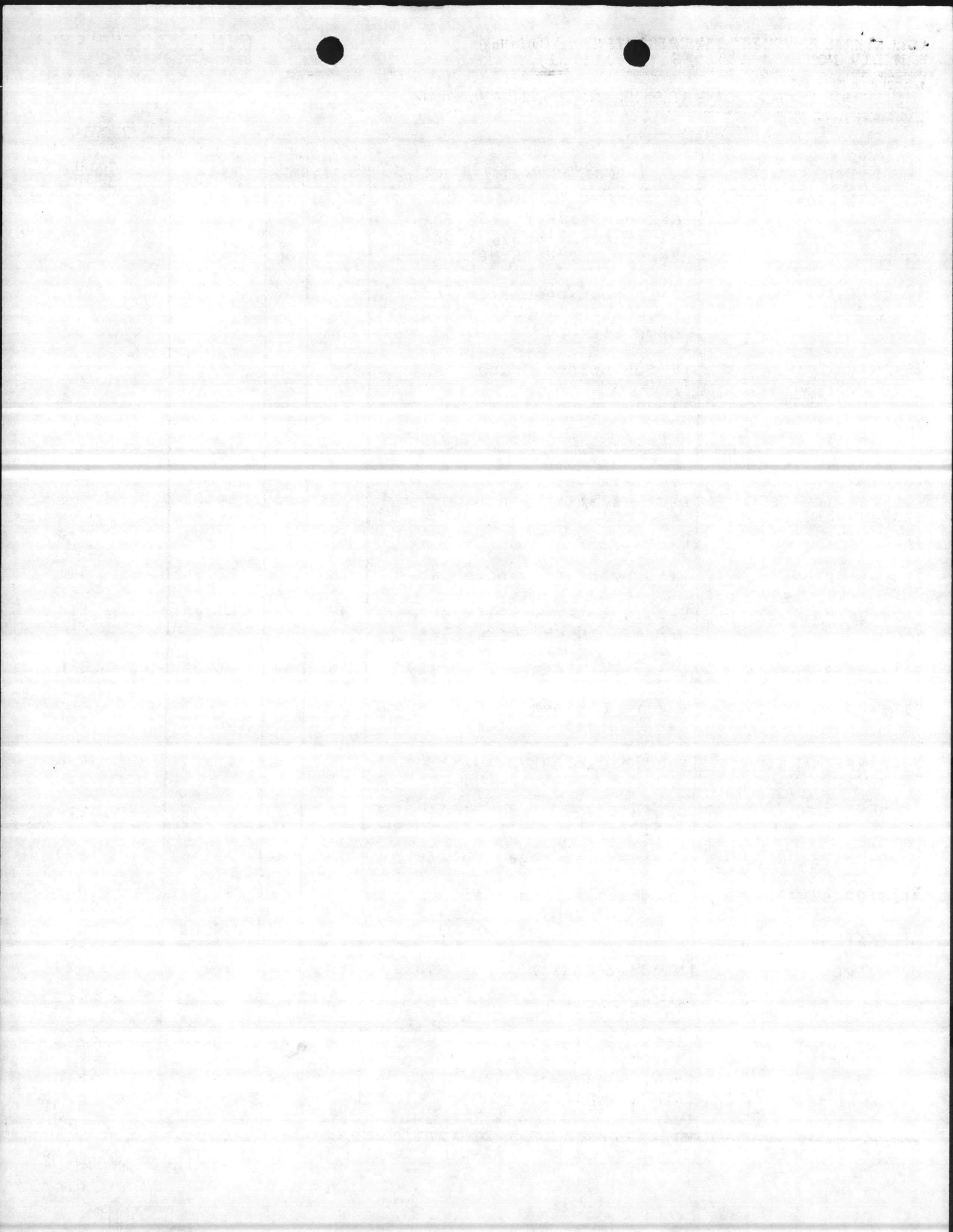


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COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	*Air compressor, 150 PSI, (2 stage 32 CFM), 3-phase, 3-wire, 220V 15 HP		Ea		
	*Twin post pneumatic lift, LD, 11,000 lb cap., 150 PSI comp air		Ea		
	*10 Ton bridge Crane		Ea		
	*11,000 pound lift		Ea		
2. Expense Items:					
7110-00-149-1630	Desk, flat top, dbl ped	28	ea	234.23	6,558
7110-00-149-1628	Desk, flat top, single ped	16	ea	180.09	2,881
7100-01-016-6580	Attachment for above desks	5	ea	128.78	644
7110-00-082-6229	Chair, rotary, tilting seat w/arms and casters	49	ea	63.46	3,110
7110-00-958-8044	Chair, secretarial rotary	6	ea	64.60	388
7110-00-497-2012	Filing Cabinet, 5 dwr, legal size, w/o lock	25	ea	146.20	3,655
7110-00-551-5489	Filing Cabinet, 2 Dwr	6	ea	72.99	438
7110-00-113-0816	Table, office, gen. purpose 60"x24"	8	ea	168.45	1,348
7125-00-764-6129	Cabinet, storage, dbl dr.	7	ea	132.78	929
7110-00-601-9822	Bookcase, 2 shelves	73	ea	82.92	6,053
7110-00-782-3503	Chair straight, w/o arms	14	ea	40.00	560
OP VIRCO	Student Chairs, model 7020	80	ea	30.35	2,428
6645-00-530-3342	Clock, wall	20	ea	8.20	164
7910-00-680-8296	Floor Polisher	3	ea	209.90	630
OP	2 seat couch	2	ea	255.00	510

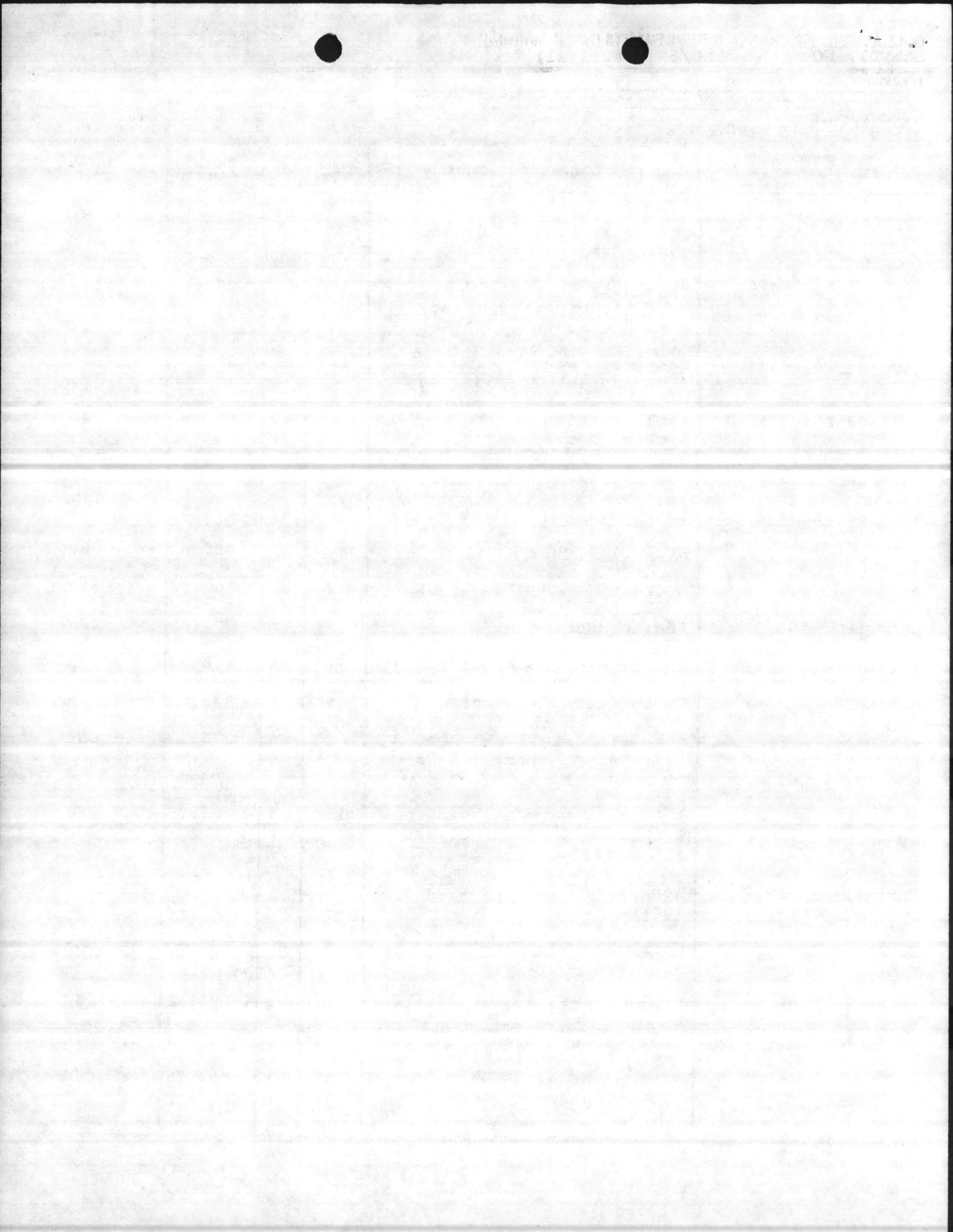


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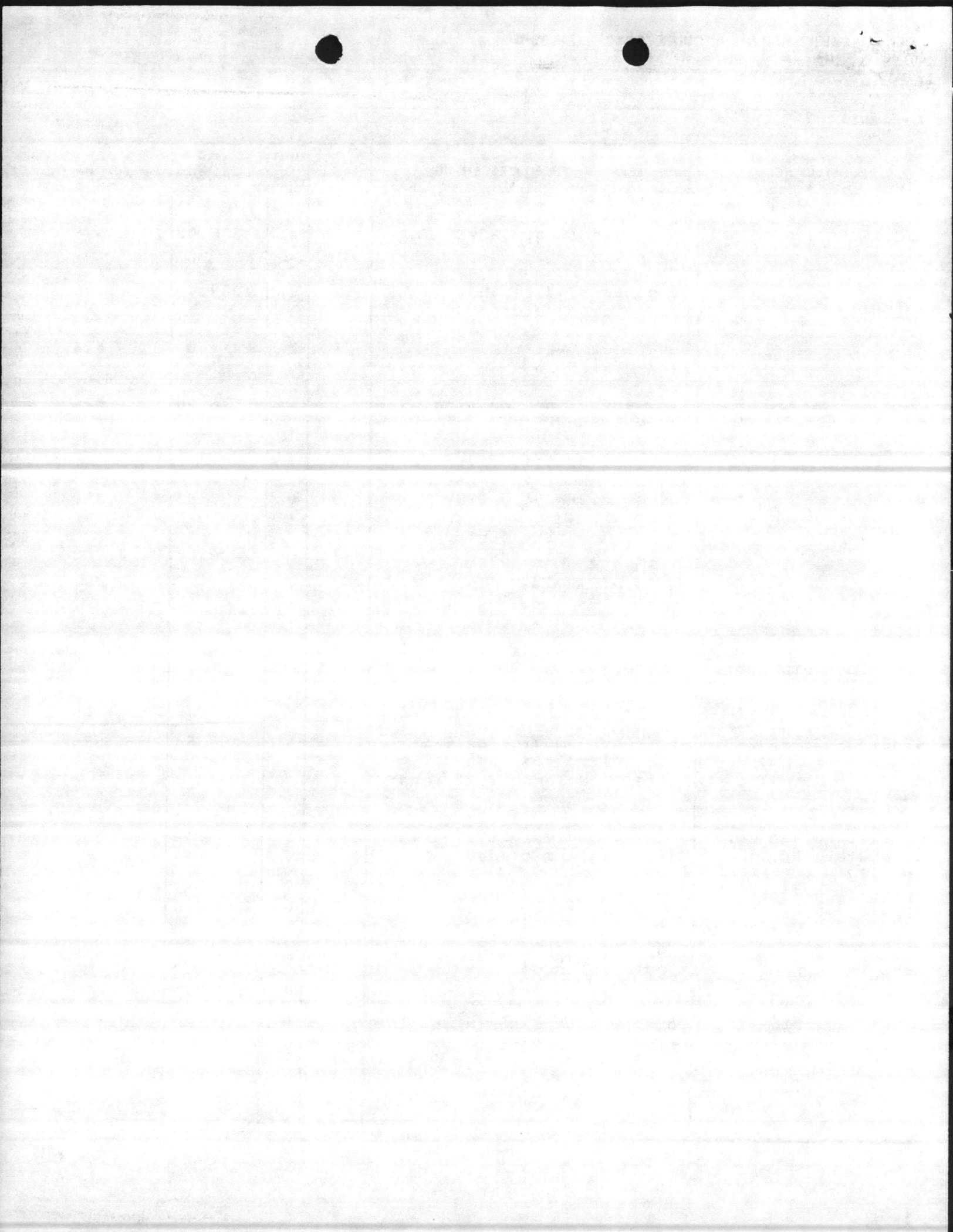
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
4210-01-089-0875	Fire Extinguisher, dry chemical, class B/C, gas cartridge operated	5	ea	74.11	371
4210-00-720-1815	Fire Extinguisher, 2 1/2 gal. air expelled water, class A, stainless steel	5	ea	25.98	130
7195-00-242-3503	Customer, wearing apparel 4 dbl hooks, w/round base	17	ea	31.50	536
7195-00-004-6716	Rack, wearing apparel, 6 metal hangers	15	ea	49.39	741
7520-00-285-5416	Basket, wastepaper	20	ea	2.75	55
6230-00-682-3423	Lamp, desk	2	ea	41.50	84
	Draperies, blackout	4	pr	95.00	380
OP	Lecturn	2	ea	160.00	320
OP	Adding Machine	3	ea	200.00	400
7110-01-018-6757	Chair, high back, office	31	ea	108.97	3,378
OP IBM	Typewriters, selectric	5	ea	840.00	4,200
McMaster-Carr POB 440, New Brunswick, NJ	Revolving steel stg bin #4649T41 pg. 135, cat 90	6	ea	276.27	1,658
	12" shelving w/adj std. 6 shelves 24 shelf clips 36" wide #4586T11 pg 126	16	ea	63.76	1,020
7195-00-285-5932	Work bench 48"x 34"x 28 2 leg section	24	ea	185.90	4,462
McMaster-Carr	Workbench w/cabinet port. #4624T23, pg 155	6	ea	422.55	2,535
	Bins, parts, adj shelving	100	ea	86.00	8,600
	Rack, tire storage, 3 tier	2	ea	815.00	1,630
	Saw, power hack 1-1/2 HP 220V, 3-phase	1	ea	650.00	650



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 COMBAT VEHICLE MAINTENANCE SHOP P. NO. P-678

COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	Welder, heli-arc AC/DC 300 amp	1	ea	575.00	575
	Vulcanizer, tire, HD vulcanizing molds	1	ea	1288.00	1,288
	Tank test (water) 24"x50"x18" CW	1	ea	414.00	414
	Kit, acetylene, cutting and welding	1	ea	546.00	546
	Charger, battery, 12V/24V, 36V selenium type, battery tester 2.2KW, 110/220V	3	ea	633.00	1,899
	Racks, security for tool boxes, 24 openings	4	ea	2300.00	9,200
	TOTAL EXPENSE ITEMS				75,368
3.	<u>Investment Items:</u> None.				
4.	<u>APA Equipment:</u> None				
5.	<u>Training Equipment:</u> (To be locally funded)				
6730-00-423-9992	Projector, movie, Bell & Howell 16mm real sound, Tungsten Halogen 1.2" lens	2	ea	467.54	935
DA-LITE Screen Co. 3100 State Rd., Box 137 Warsaw, IN 46580 (219)267-8101	Screen, movie, picture king 84"x84" glass beaded	2	ea	126.42	253
GS-03S-81003 389B	Projector, overhead, specialist model 389B	2	ea	203.00	406
	Total Training Equipment				1,594
6.	<u>Equipment on Hand:</u> To be formulated 1 year from BOD.				

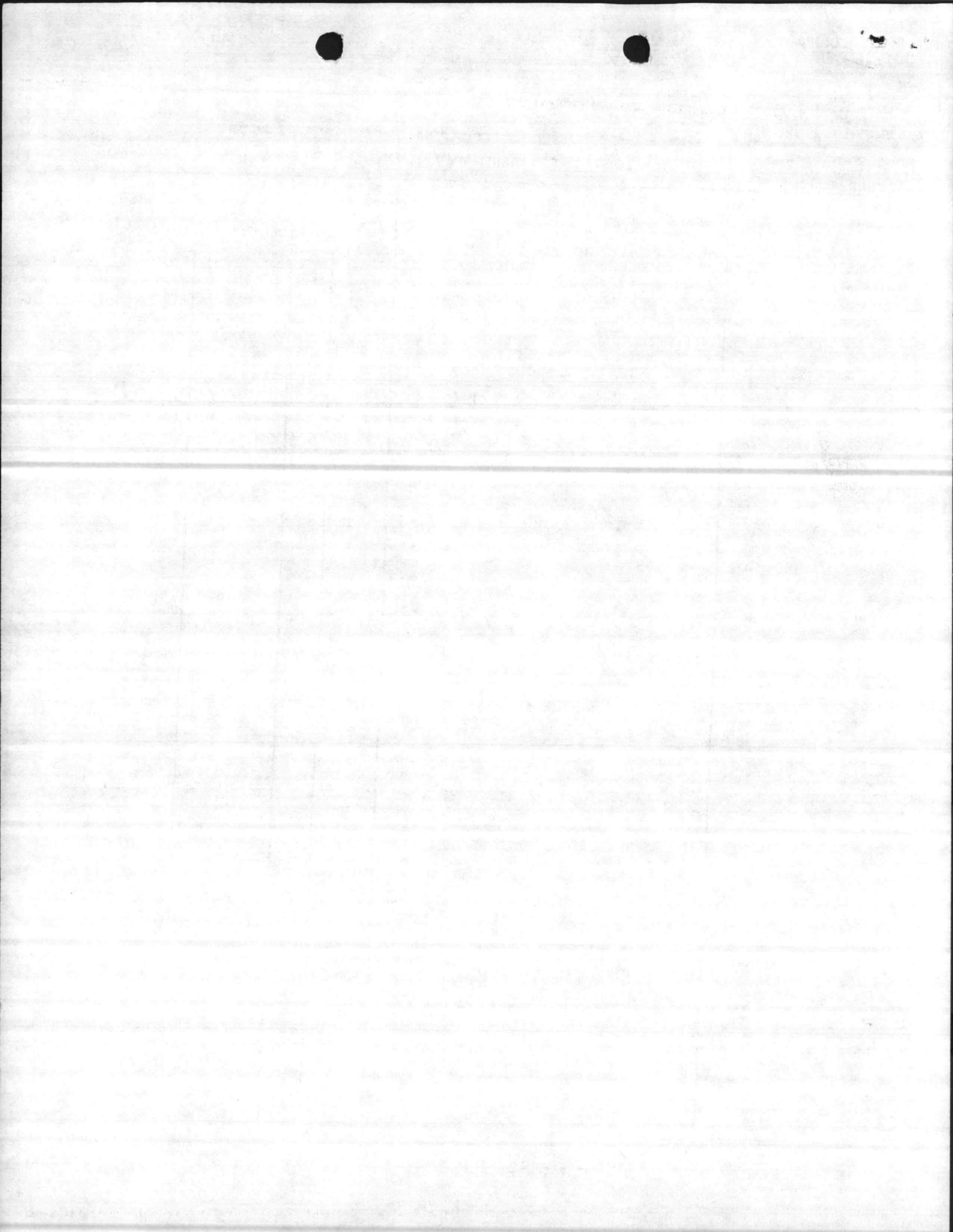


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P. NO.
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COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
Summary:	Total Expense Items				75,368
	Total Training Eqpt.				1,594
	Estimated BOD is: April 89				





DEPARTMENT OF THE NAVY

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511-6287

TELEPHONE NO.

(804) 444-9696

IN REPLY REFER TO AUTOVON 564-9696

4490
09A23A

6 MAR 1986

05/02
Mary
Gene
Larry WLB
Fred
Karen KMT

From: Commander, Atlantic Division, Naval Facilities Engineering Command
To: Commanding General, Marine Corps Base, Camp Lejeune, North Carolina 28542

Subj: COLLATERAL EQUIPMENT REQUIREMENTS FOR FY 1988, MILITARY CONSTRUCTION, NAVY PROJECT P-678, AUTOMOTIVE VEHICLE MAINTENANCE SHOP

- Encl: (1) Guidelines for developing Collateral Equipment Requirements
 (2) Sample Collateral Equipment List
 (3) Copies of NAVFAC Form 5ND LANTDIV 4-11010/6, Collateral Equipment Requirements (Initial Outfitting) (4 copies)

1. The list of collateral equipment for Military Construction (MCON) projects, particularly in the area of built-in equipment, provides essential data required to develop the Project Engineering Documentation (PED) and plans/specifications. This list is also the basis for the appropriate budgetary action to provide funds for the initial outfitting of the completed project.

2. Enclosure (1) was specifically developed for preparation of equipment lists for inclusion in the PED. Particular attention is invited to the information concerning the various equipment categories, under one of which each equipment item shall be reported. Inasmuch as the category determines the fund source, inventory cognizance or logistical responsibility, the requirement should be identified and reported correctly. Enclosure (2) provides the format for submission of collateral equipment requirements.

3. Due to current budget cuts, as well as cuts anticipated in the future, it is essential that equipment on hand, in a useable condition, be transferred to the new or renovated facility. Consequently, the collateral equipment in your custody now, which may be transferred to the new facility, should not be included in the submission.

4. It is requested that requirements for the subject project be submitted on enclosure (3) to this Command, attention Code 09A23. This submittal should be forwarded in time to be received by 6 May 1986. Due to the scheduled preparation of the PED in the near future, compliance with the submission date is requested.

*Relocate site for Hq + 704
9/21/86 - Redesigning
20 Jan 86
Shelma - adv'd
send ass whenever it is ready -
Bob 4/89*

*20 June 1986
as per phoncon
between G Jones
& T. Wheeler
14 Mar 1986*

NAVY PROJECT 1-84, AUTOMATIC VEHICLE CONTROL SYSTEM

1967-1968
AUTOMOBILE-029

Commander, Atlantic Division, Navy, 4015 Building, Engineering Command
Department of the Navy, 4015 Building, Engineering Command

NAVY PROJECT 1-84, AUTOMATIC VEHICLE CONTROL SYSTEM

(1) Evaluation of development of automatic vehicle control system

(2) Evaluation of automatic vehicle control system

1. The list of automatic equipment for the Navy's automatic vehicle control (AVC) system, particularly in the area of automatic vehicle control (AVC) and automatic vehicle control (AVC) is being reviewed. The list is being reviewed for the purpose of determining whether or not the equipment is needed for the proposed system.

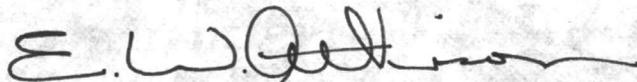
2. Equipment (1) was specifically developed for the purpose of automatic vehicle control (AVC) and is being reviewed for the purpose of determining whether or not it is needed for the proposed system. The equipment is being reviewed for the purpose of determining whether or not it is needed for the proposed system.

3. The equipment (2) is being reviewed for the purpose of determining whether or not it is needed for the proposed system. The equipment is being reviewed for the purpose of determining whether or not it is needed for the proposed system.

4. It is requested that requirements for the subject matter be included in the report (3) to this Command, dated 10/1/67. The subject matter is being reviewed for the purpose of determining whether or not it is needed for the proposed system.

Subj: COLLATERAL EQUIPMENT REQUIREMENTS FOR FY 1988, MILITARY CONSTRUCTION
NAVY PROJECT P-678, AUTOMOTIVE VEHICLE MAINTENANCE SHOP

5. Communications regarding collateral equipment requirements should be directed to this Command, attention: Mrs. Thelma T. Wheeler, Code 09A23A, telephone (804) 444-9696, or AUTOVON 564-9696.



E. W. ATKINSON, P.E.
By direction

NAVY PROJECT P-670, AUTOMOTIVE VEHICLE MAINTENANCE SHOP
Subj: COLLATERAL EQUIPMENT REQUIREMENTS FOR FY 1980, MILITARY CONSTRUCTION

2. Communications regarding collateral equipment requirements should be directed to this Command, attention: Mr. Thomas T. Wheeler, Code 0902A, telephone (91A) 444-0722, or AUTOVON 544-9998.


E. M. ATKINSON, P.E.
Director

10 MAR 1985 13 02



DEPARTMENT OF THE NAVY
 NAVAL FACILITIES ENGINEERING COMMAND
 200 STOVALL STREET
 ALEXANDRIA, VA 22332

T-11013 *Blk J*

IN REPLY REFER TO

11013/0512C
 10 FEB 1986

From: Commander, Naval Facilities Engineering Command
 To: Commander, Atlantic Division, Naval Facilities Engineering Command
 Subj: FY 1988 MCON PROJECT P-678, COMBAT VEHICLE MAINTENANCE SHOPS, MCB CAMI
 LEJEUNE, NC
 Ref: (a) NAVFAC LTR 11013/0512 of 12 Sep 85
 (b) NAVFACINST 11010.14P of 8 Jan 86
 Encl: (1) DD Form 1391 dated 15 January 1986

1. Proceed with the development of Plans and Specifications and Project Engineering Documentation using guidance in references (a) and (b) and enclosure (1). Do not proceed beyond the 35% design stage without our written authorization.
2. The design shall be developed using the scope shown below and as described in enclosure (1). Under no circumstances shall significant scope changes be implemented without the written approval of this Headquarters. Activity initiated requests for significant scope changes must be submitted via their chain of command to this Headquarters for resolution.
3. The proposed budget price for this project is \$6,300,000.
4. Proceed under appropriation 1761205, subhead 2563; and appropriation 1771205, subhead 2573; as appropriate; and

<u>UIC Number</u>	<u>P-No.</u>	<u>Phase</u>	<u>Project Scope</u>	<u>Category Code</u>	<u>RPI Code</u>	<u>Package Code</u>
M67001	678	F88	61,660 SF	214-51	1	MC

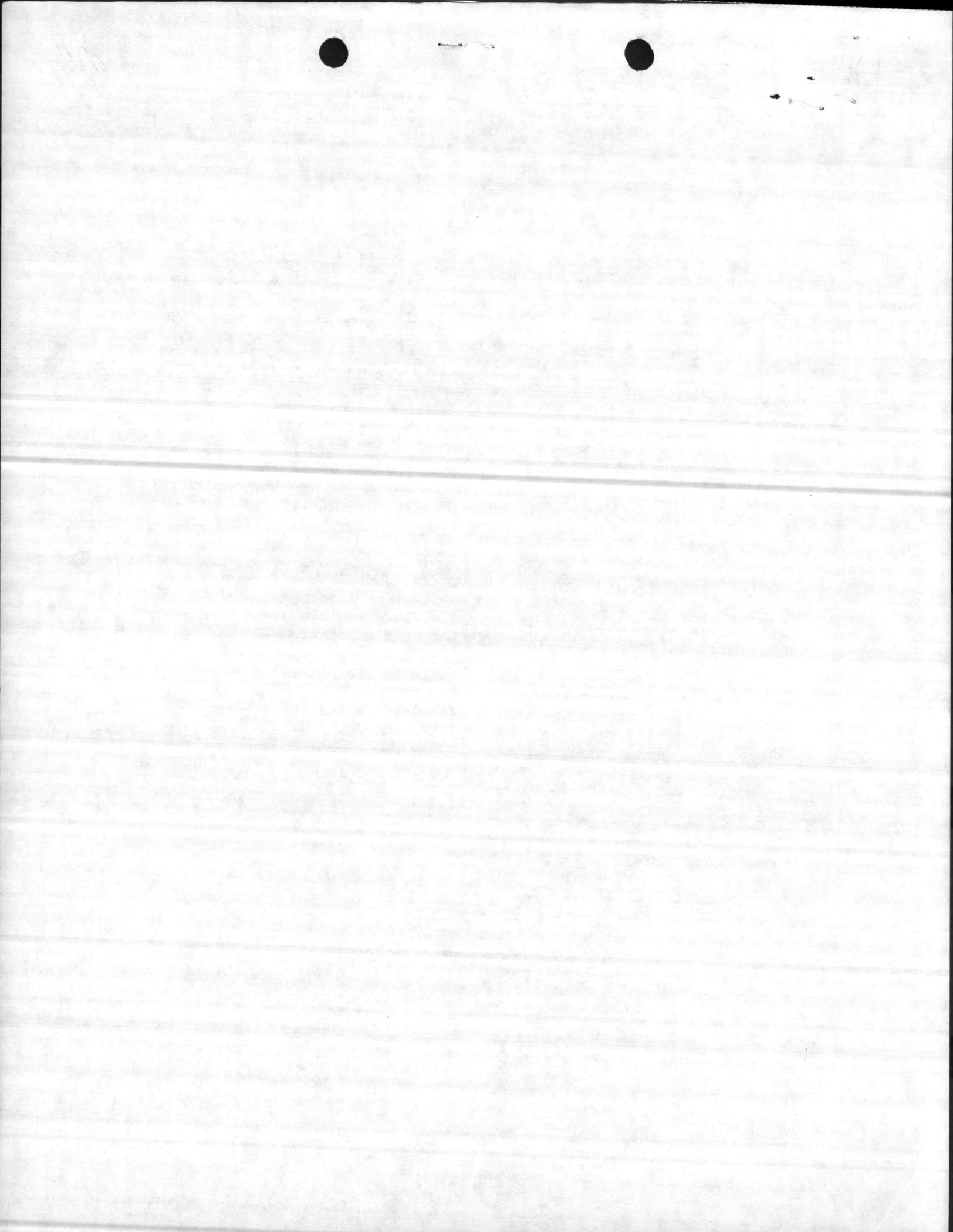
5. Other Guidance:

a. OSD directives require a Value Engineering Study for this project.

b. Note scope and cost change from 76,210 SF to 61,660 SF and \$6,500,000 to \$6,300,000 respectively. Also note title change from "Automotive Vehicle Maintenance Shops" to "Combat Vehicle Maintenance Shops."

Angelo Tjoumas
 ANGELO TJOUMAS
 By direction

REPRODUCED AT GOVERNMENT EXPENSE



1. COMPONENT: MARINE CORPS
 2. PROJECT DATA: FY 1988 MILITARY CONSTRUCTION PROJECT DATA
 3. INSTALLATION AND LOCATION: MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542
 4. PROJECT TITLE: COMBAT VEHICLE MAINTENANCE SHOPS
 5. PROGRAM ELEMENT: 214-51
 6. CATEGORY CODE: P-678
 7. PROJECT NUMBER: P-678
 8. PROJECT COST (\$000): 5,900 ^{6,300}

9. COST ESTIMATES

ESCALATED TO APRIL 1988

ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
ESCALATION 99				
COMBAT VEHICLE MAINTENANCE SHOPS	SF	78,124	47.5	3,719
Building	SF	61,660	55.87	(3,206)
Built-in Equipment	SF	61,660	52.00	(239)
SUPPORTING FACILITIES	LS	16,457	15.20	(250)
Special Construction Features	LS	-	-	(105)
Utilities	LS	-	-	(486)
Roads, Parking, Sidewalks	LS	-	-	(750)
Site Improvements	LS	-	-	(291)
Vehicle/Gun Wash Station w/Pollution Control	SY	3,800	72.18	(274)
SUBTOTAL				5,357
CONTINGENCY - 5%				268
TOTAL CONTRACT COST				5,619
SUPERVISION, INSPECTION & OVERHEAD 5.5%				309
TOTAL REQUEST*				5,928
TOTAL REQUEST (ROUNDED)				5,900
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				(NON ADD) (0)

*Cost based on COMNAVFACENGCOM certified cost verification of 9 Dec 85

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Construct two (2) maintenance facilities with high bays of reinforced concrete on pile foundation with masonry walls, concrete floors and built-up roofing with insulation, and a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area. Overhead doors in bay areas, fire protection and alarm systems, telephones and telephone equipment installation, energy conservation and pollution abatement features are included in project. Overhead shelters for howitzers, wash aprons and oil/water separators and hazardous flammable storage, pavements, security fencing and lighting, and utility connections are included, and demolition as required. (Air Conditioning: 10 tons)

OF BUILDINGS 175 AND 175.

11. *REQUIREMENT: 402,531SF Adequate: 177,664SF Substandard: 133,412SF

PROJECT: Provide (two) adequate Combat Vehicle Maintenance/Ordnance Shops for the 10th Marine Regiment.

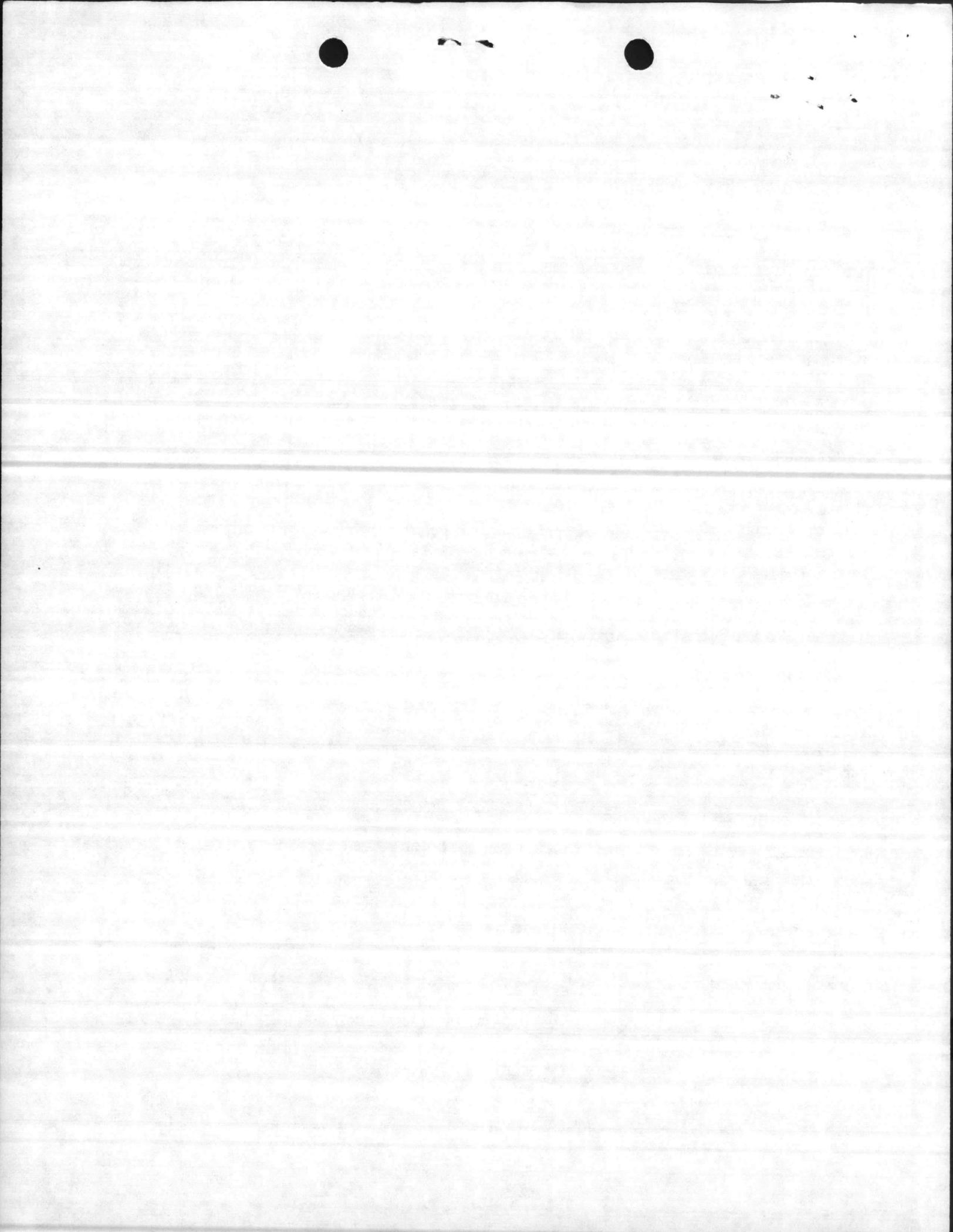
REQUIREMENT: The 10th Marine Regiment has the responsibility to provide proper and efficient 1st and 2nd echelon maintenance for artillery and organic combat vehicles. This includes radio jeeps, forklifts, trailers, ambulances, trucks, wreckers, refrigeration units, bulldozers and decontamination units. The number of trucks and other vehicles organic to the Regiment is 400. Over 156 personnel will work in these facilities.

*Requirement is based on NAVMC Form 10651 dtd 12 Nov 35

want to add a gun shed to the project
 \$800,000
 ENCL (2)

REPRODUCED AT GOVERNMENT EXPENSE

REPRODUCED AT GOVERNMENT EXPENSE



Subj: FY 1988 MCON PROJECT P-678, COMBAT VEHICLE MAINTENANCE SHOPS, MCB CAMP
LEJEUNE, NC

Copy to:
LANTNAVFACENGCOM (09A2)
CMC (LFF-1)
COMCABEAST
MCB CAMP LEJUNE, NC



ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE 13 MAR 86

TO:

BASE MAINT O

DIR, FAMILY HOUSING

PUBLIC WORKS O

DIR, UNACCOMPANIED PERS HSG

COMM-ELECT O

BASE FIRE CHIEF

ATTN: Planning

1. Attached is forwarded for info/action.

and return all papers to this office.

3.

3 L+ria
= P-256
P-626
P-678

af

Gene [initials]
Larry WCB
Fred [initials]

Karen KMF

“LET’S THINK OF A FEW REASONS
WHY IT CAN BE DONE”



111



111

111

111

111

ASSISTANT CHIEF OF STAFF, FACILITIES
HEADQUARTERS, MARINE CORPS BASE

DATE 13 MAR 86

TO:

BASE MAINT O

DIR, FAMILY HOUSING

PUBLIC WORKS O

DIR, UNACCOMPANIED PERS HSG

COMM-ELECT O

BASE FIRE CHIEF

ATTN: Planning

1. Attached is forwarded for info/action.

Gene [initials]
Larry WLB
Fred [initials]

2. Please initial, or comment, and return all papers to this office.

Karen KMF

3. Your file copy

af

“LET’S THINK OF A FEW REASONS
WHY IT CAN BE DONE”





DEPARTMENT OF THE NAVY

ATLANTIC DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
NORFOLK, VIRGINIA 23511-6287

TELEPHONE NO.

444-9670

IN REPLY REFER TO:

N62470-86-B-8730

09A21B3

14 MAR 1986

Gene Egan
Fred [unclear]
Larry [unclear]

ILR 7

408

Gantt Huberman Architects
112 West 5th Street
Charlotte, North Carolina 28202

Re: A&E Contract N62470-86-B-8730, FY 88 MCON Project P-678, Combat Vehicle Maintenance Shop, Hadnot Point, Marine Corps Base, Camp Lejeune, North Carolina

Gentlemen:

Your firm has been tentatively selected to prepare Project Engineering Documentation (PED), plans, specifications and cost estimates for FY 88 MCON Project P-678, Combat Vehicle Maintenance Shop, Hadnot Point, Marine Corps Base, Camp Lejeune, North Carolina. Enclosure (1) defines the scope of work and is forwarded to assist you in the preparation of a fee proposal. Enclosure (2), Guide for Architect-Engineer Firms, supplements enclosure (1) and outlines the procedures, instructions and responsibilities for firms providing services under contract. All facets of project administration, payment of fees, design, estimating, quality control and shop drawing review are discussed within the text of the Guide for Architect-Engineer Firms. IT IS ESSENTIAL THAT YOU BECOME ACQUAINTED WITH ALL PROCEDURES AND RESPONSIBILITIES PRIOR TO YOUR FEE PREPARATION.

Enclosure (3) provides the format of fee submission. It should be accompanied by the following:

- a. Supporting information you developed in preparing your fee proposal; i.e., the number of drawings anticipated per discipline; a description of the drawing and scale to be used; a breakdown of all direct costs (travel, reproduction, soil investigations, topographic surveys, energy analysis); a breakdown per discipline of field investigation efforts.
- b. In compliance with the PED Instruction's "Introduction Section," following your site visit with the Activity, the cost model, enclosure (3); cost verification in the form of an annotated DD Form 1391; conference notes (clarifying or modifying the scope); and wage and overhead rates shall be submitted.
- c. In the event the total cost exceeds \$100,000, your fee proposal must be accompanied by the Standard Form (SF) 1411 provided as enclosure (5), and a copy of the most recent Defense Contract Audit Agency (DCAA) audit performed for your firm or consultants; if available. The SF 1411 will be forwarded to the DCAA nearest your firm. The auditor will require your firm to produce a quotation on all consultant expenses. A single quote will suffice. The advisory audit report will normally substantiate the validity of your labor costs, consultant quotations and basis for overhead. All negotiations will be subject to the audit results.

601 11AM

14 MAR 1986

d. Enclosure (6), certificate of current cost or pricing data, should be signed, dated and submitted UPON COMPLETION of fee negotiations for all fees in excess of \$100,000.

e. It is requested that you complete enclosure (7), representations and certifications form, and return it with your fee proposal. Completion of this form will provide accurate information for contract award and payment. No contract will be awarded without this information.

In submitting your proposal, milestones must be established for the Project Engineering Documentation (PED), preliminary (35%), prefinal and final (100%) submittals. Tentative milestones are outlined in enclosure (1). Your proposal should indicate concurrence with those milestones or propose those you consider more reasonable.

You will be expected to participate in a 35% review conference to be held at the Activity after which the prefinal submittal should be made in accordance with the established schedule.

For further information, please contact Ms. S. M. Gale, P. E, Atlantic Division, Naval Facilities Engineering Command, Norfolk, Virginia, telephone 444-9670, area code 804.

This letter is not intended as a commitment by the Government, and any expense incurred in preparation of the fee proposal is your responsibility. A contract award will await successful completion of fee negotiations.

All information contained in this letter is for "Official Use Only" and must not be divulged to persons other than those having a definite "Need to Know" without prior approval in writing from this Command.

Sincerely,

D. R. PHELPS, P. E.
Southern Section Head, CONUS Branch
Acquisition Project Management Office
By direction of the Commander

Encl:

- (1) Appendix A dtd 19 Feb 1986
- (2) LANTNAVFACENGCOM 4-4330/89C (REVISED 10/84)
- (3) A&E Fee Proposal Submittal
- (4) Cost Model
- (5) SF Form 1411, Contracting Pricing
Proposal Cover Sheet (5 copies)
- (6) Certificate of Current Cost or
Pricing Data (5 copies)
- (7) Representations and Certifications Form

Blind copy to: (w/o encls)

➤ MCB CAMP LEJEUNE

11 MAR 1957

to the Chief, Federal Bureau of Investigation
Southern Section Head, CONUS Branch
Special Agent in Charge, Management Office
by direction of the Commander

1. A&E Contract No.: N62470-86-B-8730
 Construction Contract No.: N62470-__-__-__

Project Title/Location: FY 88 MCON Project P-678, Combat Vehicle Maintenance Shop, Hadnot Point, Marine Corps Base, Camp Lejeune, North Carolina

2. Project Budget: \$6,500,000 Construction Cost: \$5,841,000

In accordance with design contract terms, you are responsible to ensure that estimated construction costs remain within programmed funds. Approval from the Project Manager (PM) is required to continue design in excess of programmed funds.

3. LANTNAVFACENGCOM PM/Telephone: Ms. S. M. (Susan) Gale, Code 09A21B3/
 804-444-9670
4. Activity Point of Contact/Telephone: Mr. F. W. Estes, Jr/919-451-1833
5. Services Required:

- a. The following listed services are required:

PED	Shop Drawing Review
Plans	As-Built Drawing Preparation
Specifications	Interior Design
Cost Estimate	

b. Project Engineering Documentation (PED): A PED is required in accordance with "LANTNAVFACENGCOM Instruction for Preparation of PEDs" (attachment (a)).

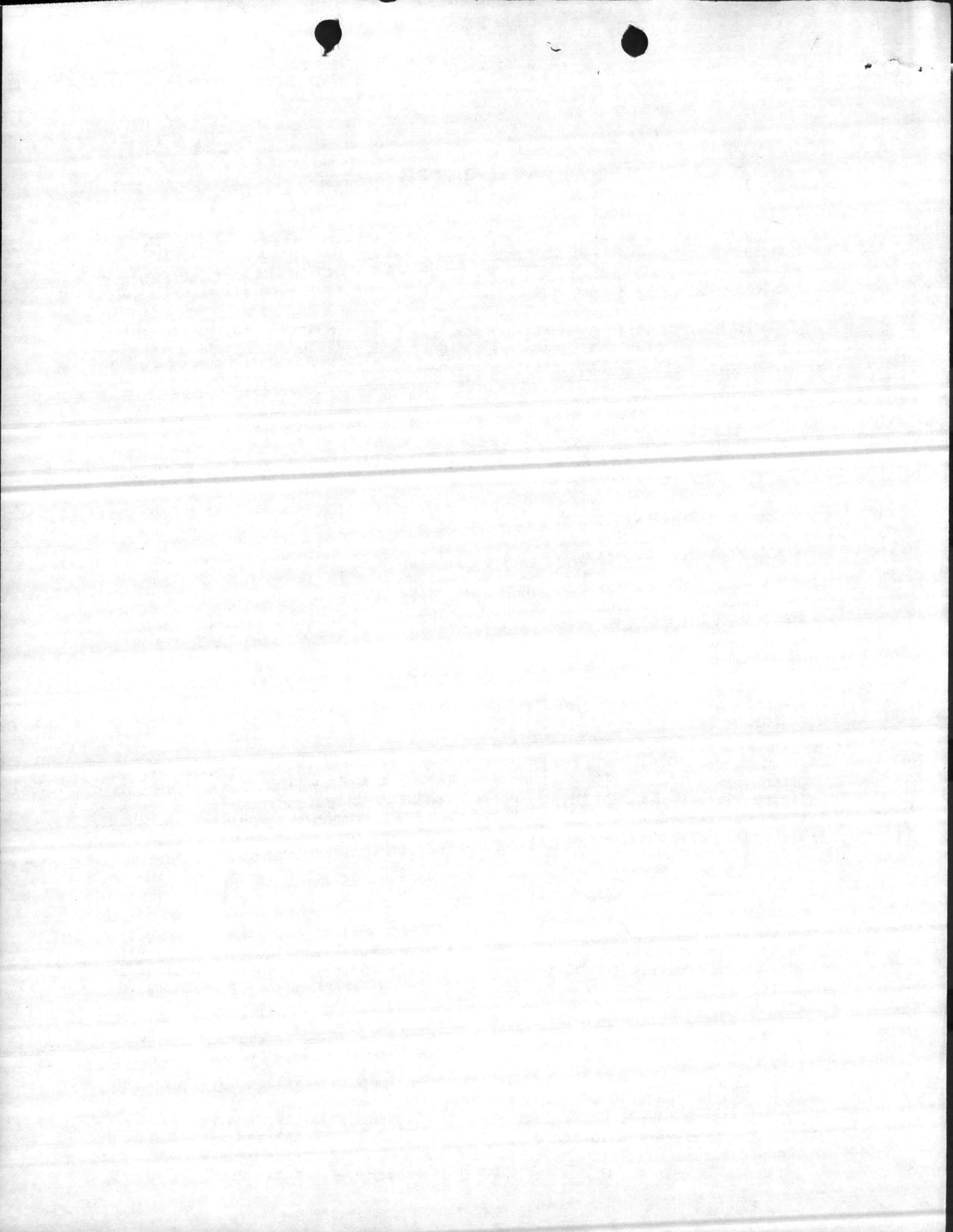
c. Energy Conservation: A computer energy analysis is required for buildings larger than 8,000 square feet (heating and cooling or cooling only) and buildings larger than 20,000 square feet (heating only). Refer to the A&E Guide. Contract N62470-84-C-6943 with The Trane Company is available for use. Instructions for its use may be obtained from the PM.

d. Bench mark datum shall be obtained from the Activity, Mr. Carl Baker, Civil Engineering, telephone 919-451-3238.

e. Value Engineering (VE): VE of project will be conducted through a separate contract. Your involvement in the VE Study is described in the A&E Guide. Data required for distribution directly to the VE Team is specifically outlined and this effort will be reimbursed under the heading of Engineering Services.

f. Base Exterior Architectural Plan (BEAP): Not Required

g. Computer Estimating System (CES): A computer estimate utilizing our CES system will be required with the prefinal and final (100%) submittals. The A&E shall furnish 7 floppy disks (5 1/4" D, doublesided, double density) and the Government will return loaded with the CES. A users manual and a hard copy of the CES database will also be furnished. Minimum hardware/software requirements are IBM compatible PC w/5 megabyte hard disk storage, printer, DOS (version 2.0



or greater), DBase 3. A manually prepared cost estimate in the systems format is to be submitted with the 35% submittal. Review the A&E Guide.

6. Fees and Options: (To be filled in at conclusion of negotiations on A&E contracts)

0-35% Design	\$ _____
Option 35-100% Design	\$ _____
Option Shop Drawing Review	\$ _____
Option As-Built Drawing Preparation	\$ _____
Unit Cost Additional Soil Borings	\$ _____
Unit Cost Additional Asbestos Survey	\$ _____

7. Proposed Design Milestones: (Calendar days) (Subject to negotiation)

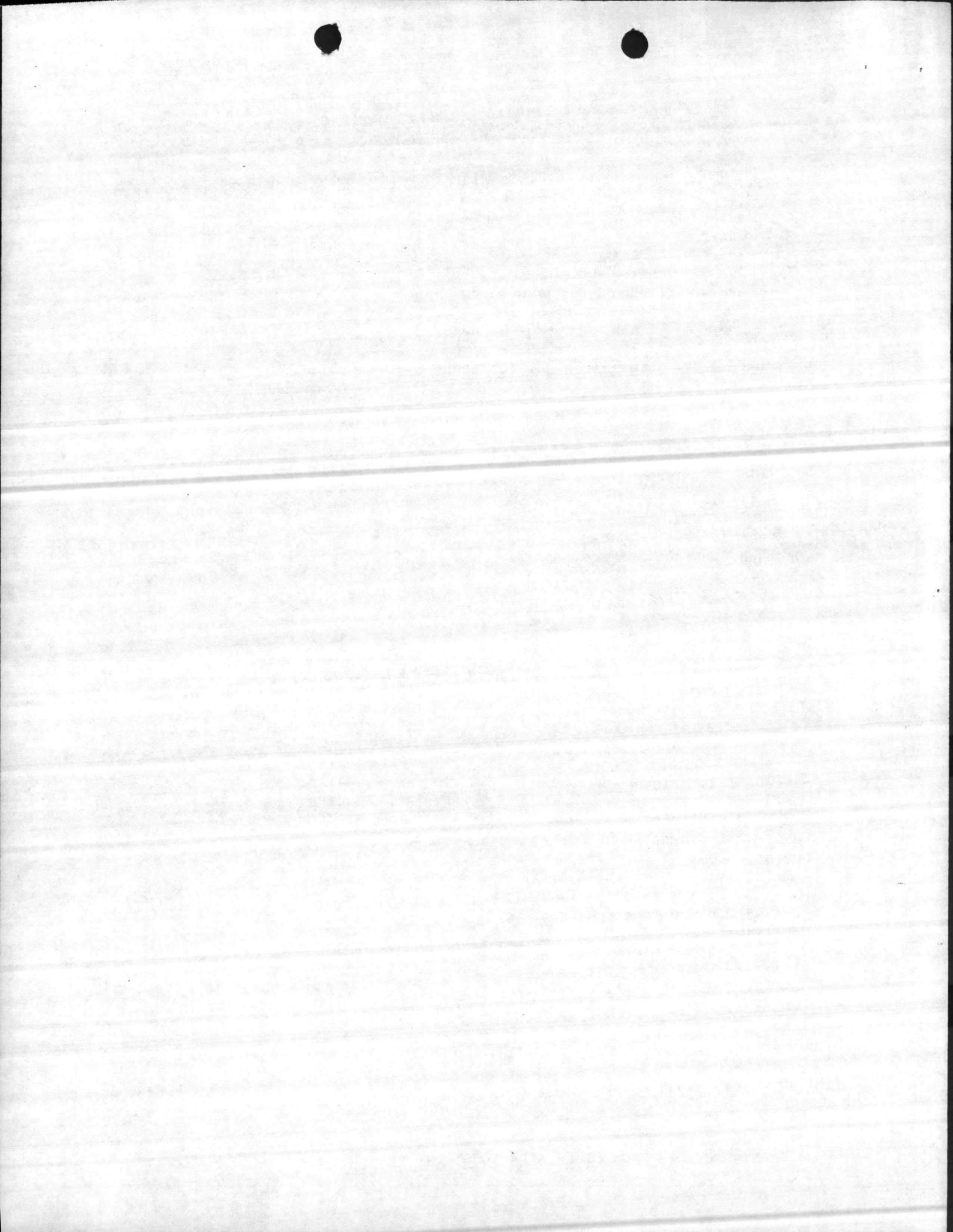
	<u>NO. DAYS</u>	<u>GOVT REV</u>
A&E Award:	0	-
PED	120	(45)
35%:	150	(45)
Prefinal:	340	(60)
Final (100%):	430	(60)
Advertise:	520	-
Award Construction Contract:	570	-

8. Scope Description:

Category Code 214-51

COST ESTIMATES

<u>ITEM</u>	<u>U/M</u>	<u>QUANTITY</u>	<u>UNIT COST</u>	<u>COST (\$000)</u>
Combat Vehicle Maintenance Shops				3,925
Building	SF	61,660	52.00	(3,206)
Overhead Shelters	SF	18,100	25.00	(453)
Built-in Equipment	LS			(239)
Operation Maintenance Support Information (OMSI)				(27)
Supporting Facilities				1,916
Special Construction Features				(105)
Utilities	LS			(486)
Roads, Parking, Sidewalks	LS			(750)
Site Improvements	LS			(291)
Vehicle/Gun Wash Station w/Pollution Control	SY	3,800	72.18	(274)
Demolition				(10)
SUBTOTAL				5,841
CONTINGENCY - 5%				292
TOTAL CONTRACT COST				6,133
SUPERVISION, INSPECTION & OVERHEAD 5.5%				337
TOTAL REQUEST				6,470
TOTAL REQUEST (ROUNDED)				6,500
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS			(NON ADD)	0



Description of Proposed Construction: Construct two (2) maintenance facilities with high bays of reinforced concrete on pile foundation with masonry walls, concrete floors and built-up roofing with insulation and a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area. One building will be a Vehicle/Ordnance Maintenance Facility (36,260 SF) used by the 4th Battalion, 10th Marines. The second building, Vehicle/Engineer Support Equipment Maintenance Facility (25,400 SF) will house the Headquarters Battalion/Target Acquisition Battery, 10th Marines. Overhead doors in bay areas, fire protection and alarm systems, telephones and telephone equipment installation, energy conservation and pollution abatement features are included in the project. Overhead shelters for howitzers, wash aprons and oil/water separators and hazardous flammable storage, pavements, security fencing and lighting, and utility connections are included, and demolition as required. Air conditioning approximates 10 tons.

REQUIREMENT: 402,531 SF Adequate: 177,664 SF Substandard: 133,472 SF

PROJECT: Provide two adequate Combat Vehicle Maintenance/Ordnance Shops for the 10th Marine Regiment.

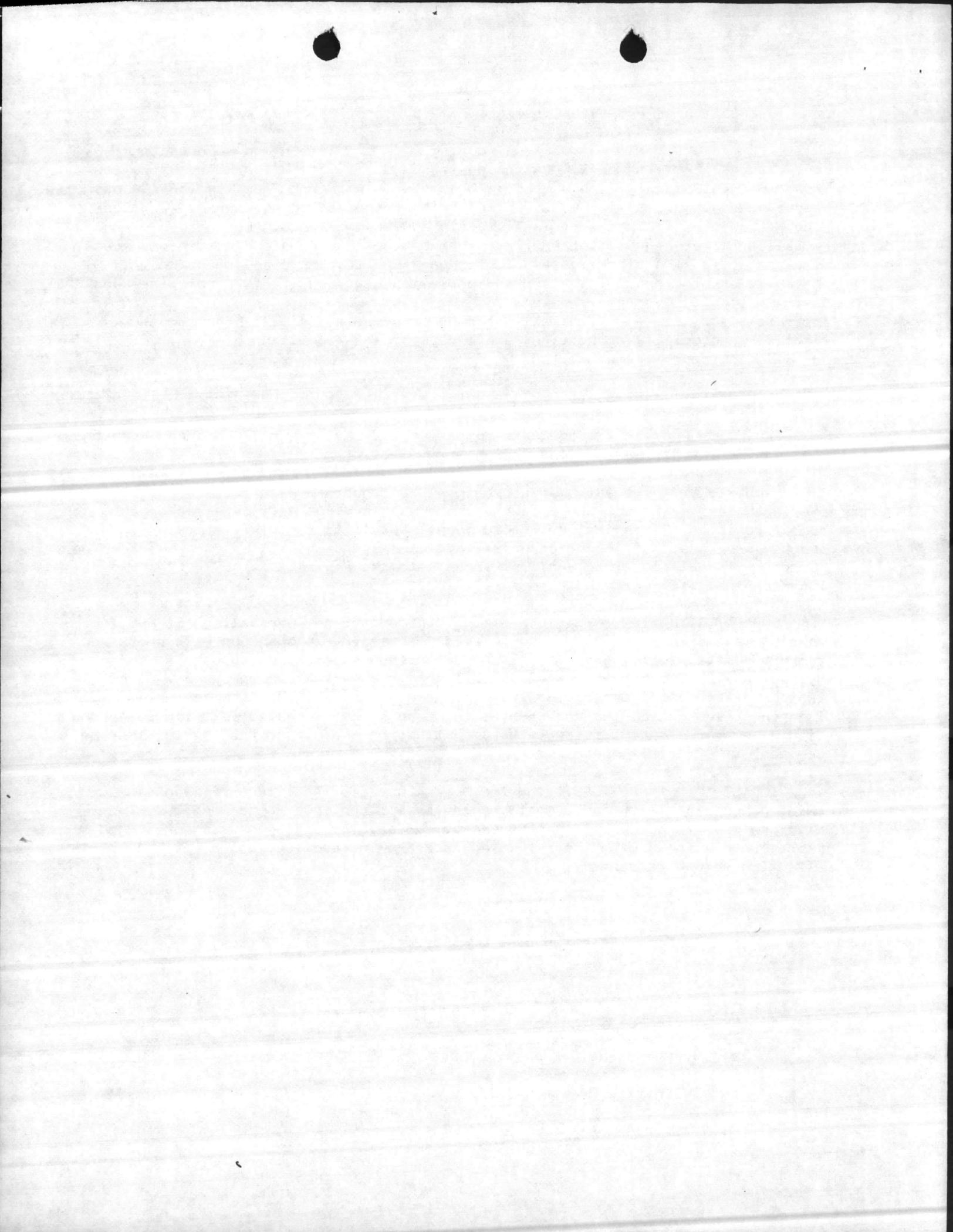
REQUIREMENT: The 10th Marine Regiment has the responsibility to provide proper and efficient 1st and 2nd echelon maintenance for artillery and organic combat vehicles. This includes radio jeeps, forklifts, trailers, ambulances, trucks, wreckers, refrigeration units, bulldozers and decontamination units. The number of trucks and other vehicles organic to the Regiment is 400. Over 156 personnel will work in these facilities.

CURRENT SITUATION: The 10th Marine Regiment is now performing 1st and 2nd echelon maintenance for combat vehicles and artillery in open Gun Park areas and temporary metal buildings. They lack such common maintenance support features as hydraulic lifts, overhead craneways, oil and grease lines, compressed air, oil traps, environmental protection features, proper work benches and adequate lighting. Reorganization and changes in weaponry have created deficiencies along with a new target acquisition battery that has been added to the the 10th Marine Regiment.

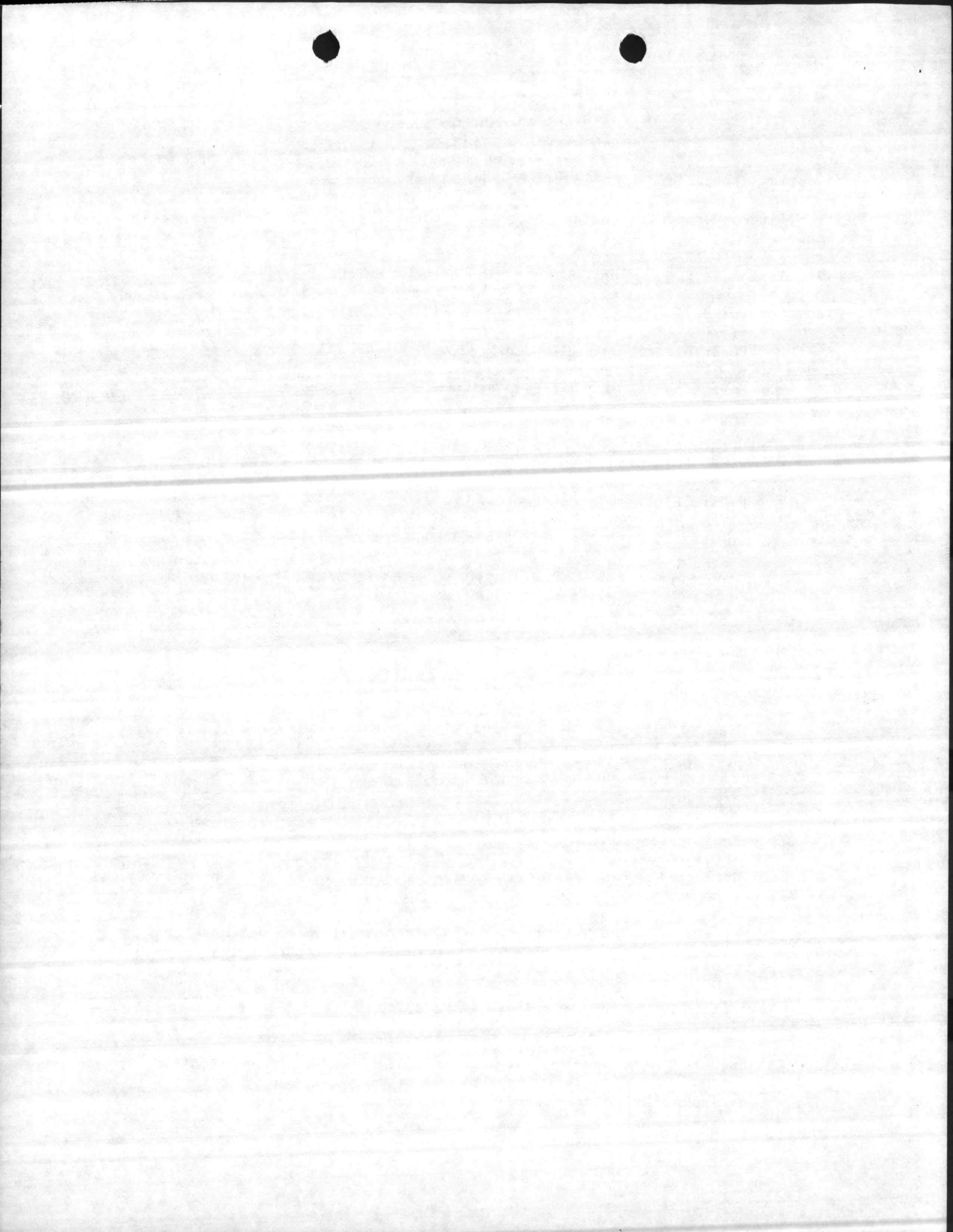
IMPACT IF NOT PROVIDED: The 2nd Marine Division Artillery Regiment's maintenance capability and combat readiness will continue to be impaired. Work will continue to be done in scattered substandard facilities causing prolonged maintenance efforts with the resulting increase in deadlined equipment, adversely affecting combat readiness.

Attachments:

- b. DD Form 1391c (Special Considerations/Facility Study)
- c. Site Plan
- d. Equipment and Personnel Listing
- e. Overhead Shelter Requirements
- f. Definitive Drawings 1293371 and 1293372
- g. Utility Maps



9. Site Approval Status: Approved by CMC letter of 24 July 1984
10. Project Environmental Assessment (PEA): A PEA has been submitted and is awaiting approval from the Environmental Assessment Board.
11. Intergovernmental Coordination Required by Designer or Review Process: None Required
12. Tentative Floor Plan Concept: See attachment (f).
13. Special Building Systems:
 - a. Power Distribution Systems: 110V/220V
 - b. Emergency Power: Not required
 - c. UPS: Not required
 - d. R. F. Shielding: Not required
 - e. Raised Flooring: Not required
 - f. Compressed Air: In all maintenance bays
 - g. Cranes and Hoists: 1 - 10 ton overhead monorail in each building
Hydraulic Vehicle Lifts: 2 - 24,000 lb twin post
2 - 11,000 lb twin post
 - i. Security Fencing and Lighting
14. System Safety and Hazard Analysis
 - a. The Activity has not prepared a preliminary hazard analysis.
 - b. Hazardous substances requiring consideration in design:
Flammable Storage
Engine Emission Controls
 - c. Personnel safety measures required as part of facility design: Eyewash in battery rooms
 - d. Safety plan and hazardous analysis not required by designer (per P. Bolton (Code 408) 18 February 1986). Activity to prepare preliminary hazard analysis (PHA).
15. Demolition Proposed: Buildings 1750 (4,740 SF) and 1755 (4,100 SF) - CMU construction
16. Easements, Air and Water Discharge Permits Required: None required
17. Special Building System Security Requirements: None required



18. List Significant Equipment from Other Appropriations: Collateral equipment list to be provided by Activity.

19. Utilities:

a. Points of Connection Proposed: (Subject to designer verification)

Water; Sewer; Power; Steam; Telephone; Fire Alarm

All utilities adjacent to each site, runs not to exceed 200 LF; see attachment (g).

b. Restrictions on Utility Interruptions: No restrictions anticipated; coordinate with Activity point of contact.

20. Construction Procurement Strategy

a. Number of Construction Contracts: One (1)

b. Proposed Construction Period: 24 Months (per Code 0525 on 29 January 1986)

c. Applicability of Standard Liquidated Damages: No deviation from standard.

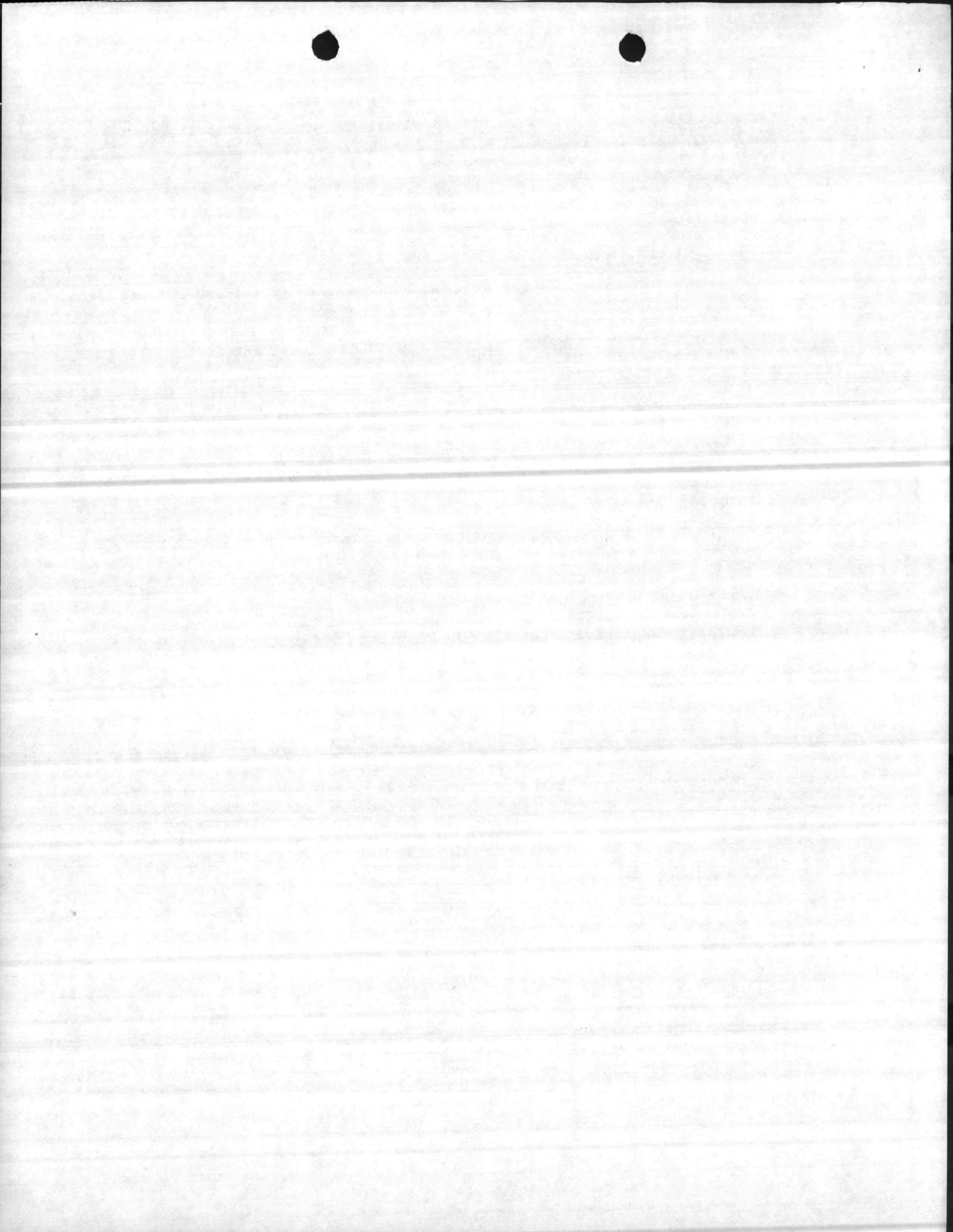
d. Methods of Procurement Proposed: Competitive Bid (Firm-Fixed-Price)

e. Security Requirements of A&E Contract: None

f. Security Requirements of Construction Contracts: None

21. Project Submittal Distribution:

	LANTNAVFACENCOM	ACTIVITY	ROICC	TMD
Cost Model	1			
PED				
PED	7	2		
Cost Estimate	2			1
Preliminary (35%)				
Plans	4	3		1
Outline Specification	4	3		1
Cost Estimate	3	3		
Basis of Design	4	3		1
Geotechnical Data	2			
VE Package	TO VE TEAM ONLY			



LANTNAVFACENGCOM ACTIVITY ROICC TMD

Prefinal

Plans, Specifications	4	3	1
Cost Estimate	4	3	1
Interior Color/Finish Material	1	1	
Calculations, Environmental			
Permits	2		
All Marked Preliminary			
Submittal Data	X		

Final

Plans - Tracings	Original
Prints	2 sets
Specifications	Bond
	2 copies
Calculations	1 copy
Field Notes, Reports, Studies,	
Permits	1 copy each
Interior Color/Finish Materials	1 set
All DMs furnished by LANTNAVFACENGCOM	

MAILING ADDRESSES: DIRECT DISTRIBUTION TO EACH ADDRESSEE BY A&E IS REQUIRED

LANTNAVFACENGCOM

Commander
Atlantic Division
Naval Facilities Engineering Command
Norfolk, Virginia 23511-6287

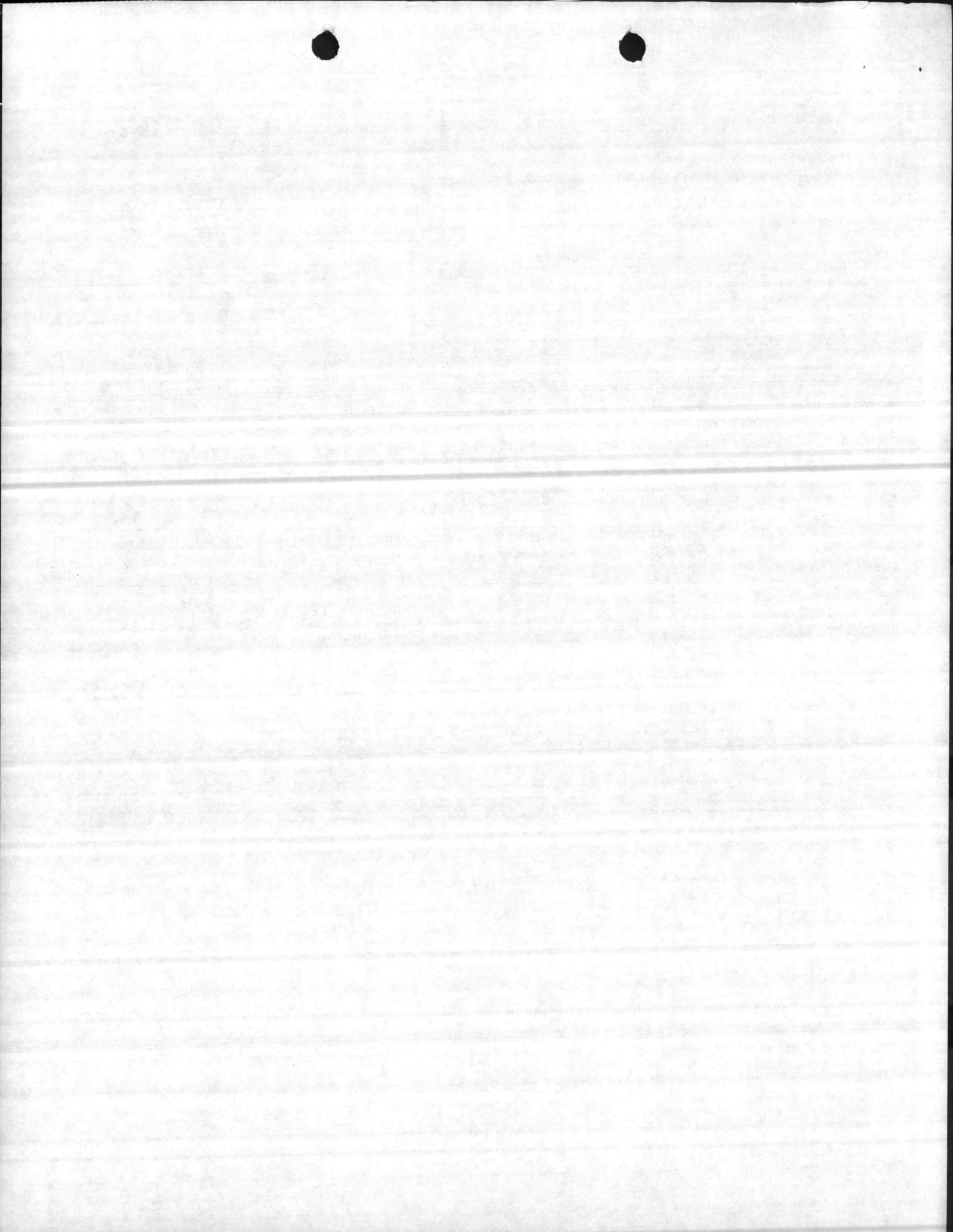
Attn: Code 09A21B3, Ms. S. M. Gale

ACTIVITY

Commanding General
Marine Corps Base
Camp Lejeune, North Carolina 28542

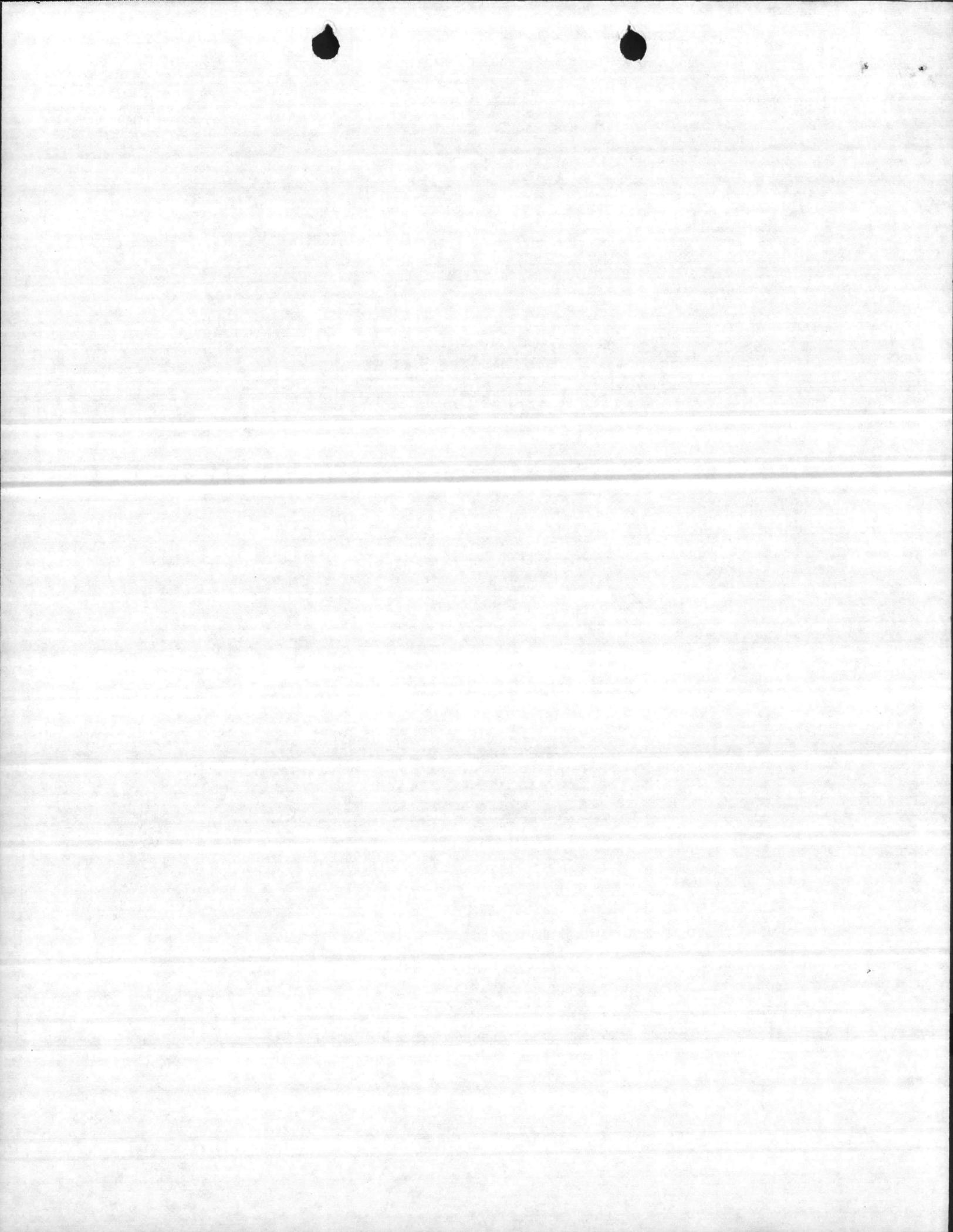
ROICC

Resident Officer in Charge of Construction
Jacksonville North Carolina Area
Marine Corps Base
Camp Lejeune, North Carolina 28542-5000



TMD

Mgr. East Telephone Management Division
c/o Naval Communication Area Master
Station, Atlantic
Norfolk, Virginia 23511-6898



1. COMPONENT MARINE CORPS		FY 19 <u>88</u> MILITARY CONSTRUCTION PROJECT DATA		2. DATE REVISED 31 Jan 86	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542			4. PROJECT TITLE COMBAT VEHICLE MAINTENANCE SHOPS		
5. PROGRAM ELEMENT	6. CATEGORY CODE 214-51	7. PROJECT NUMBER P-678	8. PROJECT COST (\$000) 6,700 6,500		

9. COST ESTIMATES		U/M	QUANTITY	UNIT COST	COST (\$000)
ESCALATED TO APRIL 1988					
<i>ESCALATION 9? ITEM ESCALATED TO 1 APR 1988</i>					
COMBAT VEHICLE MAINTENANCE SHOPS				52.00	4,137
Building		SF	61,660	55.87	(3,445)
Overhead shelters		SF	18,100	25.00	(453)
Built-In Equipment	<i>OMSI 27</i>	LS	-	-	(239)
SUPPORTING FACILITIES					1,906
Special Construction Features					(105)
Utilities		LS			(486)
Roads, Parking, Sidewalks		LS			(750)
Site Improvements		LS			(291)
Vehicle/Gun Wash Station w/pollution control	<i>DEMO, 10</i>	SY	3,800	72.18	(274)
SUBTOTAL					6,043
CONTINGENCY - 5%					302
TOTAL CONTRACT COST					6,345
SUPERVISION, INSPECTION & OVERHEAD - 5%					349
TOTAL REQUEST *					6,694
TOTAL REQUEST ROUNDED					6,700
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS					(Non Add) 0

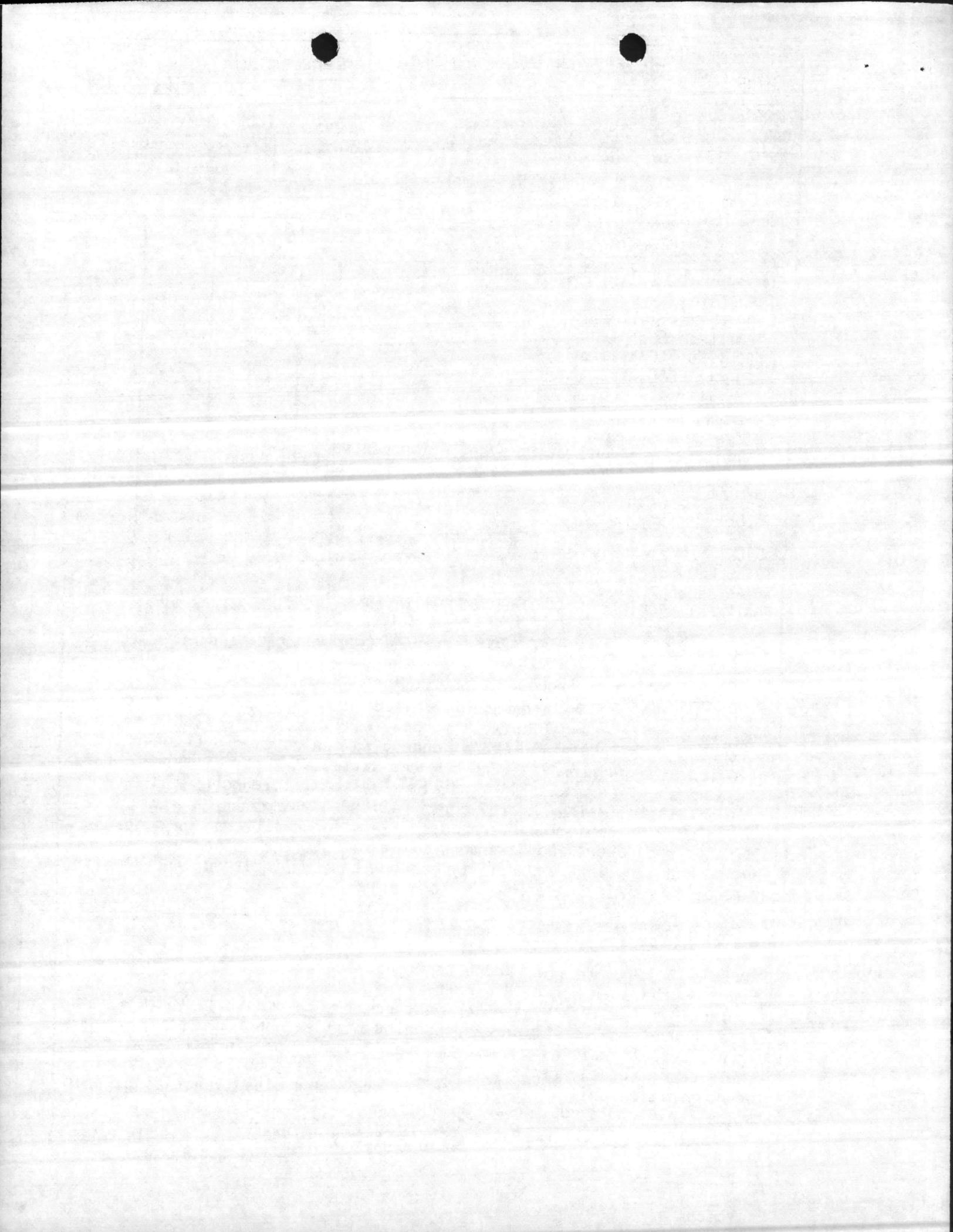
*Cost based on COMNAVFACEGCOM certified cost verification of 9 Dec 85.

10. Description of Proposed Construction:
 Construct two (2) maintenance facilities with high bays of reinforced concrete on pile foundation with masonry walls, concrete floors and built-up roofing with insulation and a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area. Overhead doors in bay areas, fire protection and alarm systems, telephones and telephone equipment installation, energy conservation and pollution abatement features are included in project. Overhead shelters for howitzers, wash aprons and oil/water separators and hazardous flammable storage, pavements, security fencing and lighting, and utility connections are included, and demolition as required. (Air Conditioning: 10 tons)

11. *REQUIREMENT: 402,531SF Adequate: 177,664SF Substandard: 133,472SF

PROJECT: Provide (two) adequate Combat Vehicle Maintenance/Ordnance Shops for the 10th Marine Regiment.
 REQUIREMENT: The 10th Marine Regiment has the responsibility to provide proper and efficient 1st and 2nd echelon maintenance for artillery and organic combat vehicles. This includes radio jeeps, forklifts, trailers, ambulances, trucks, wreckers, refrigeration units, bulldozers and decontamination units. The number of trucks and other vehicles organic to the Regiment is 400. Over 156 personnel will work in these facilities.

ENC (3)



1. COMPONENT MARINE CORPS	FY 19 ⁸⁸ MILITARY CONSTRUCTION PROJECT DATA	2. DATE REVISED 15 JAN 1986
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3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOPS

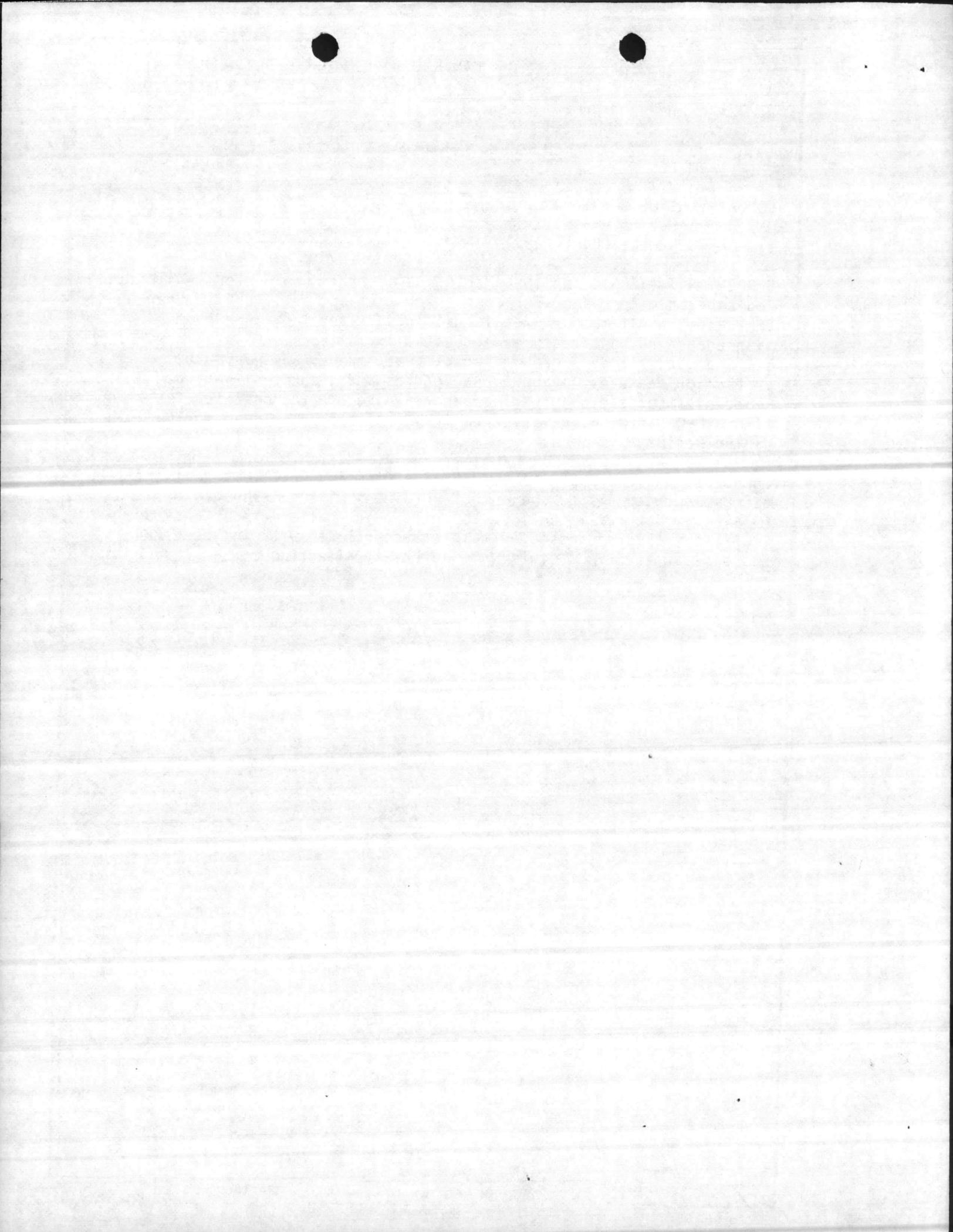
5. PROJECT NUMBER

P-678

11. REQUIREMENT (Continued)

CURRENT SITUATION: The 10th Marine Regiment is now performing 1st and 2nd echelon maintenance for combat vehicles and artillery in open Gun Park areas and temporary metal buildings. They lack such common maintenance support features as hydraulic lifts, overhead craneways, oil and grease lines, compressed air, oil traps, environmental protection features, proper work benches and adequate lighting. Reorganization and changes in weaponry have created deficiencies along with a new target acquisition battery that has been added to the 10th Marine Regiment.

IMPACT IF NOT PROVIDED: The 2d Marine Division Artillery Regiment's maintenance capability and combat readiness will continue to be impaired. Work will continue to be done in scattered substandard facilities causing prolonged maintenance efforts with the resulting increase in deadlined equipment, adversely affecting combat readiness.



SITE LOCATION MAP

P-678

COMBAT VEHICLE MAINTENANCE SHOP

-  ASPHALT SURFACED
-  D-CELL DOGS SURFACED
-  RAILROAD
-  FENCE

SUPPLY AND INDUSTRIAL AREA

HQ & TAB

GUN PARK AREA

4TH BN.

REFER TO SHEET 11.C

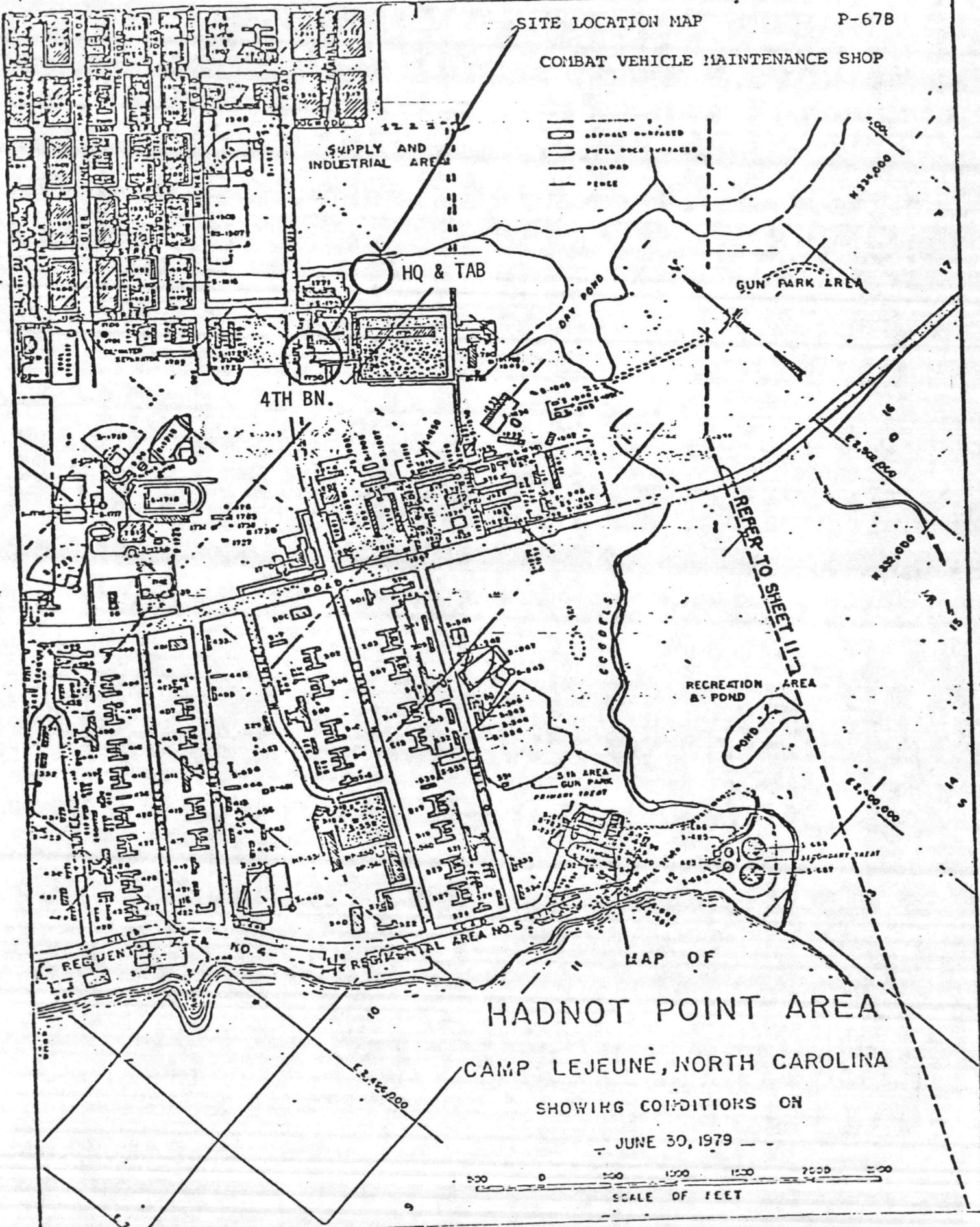
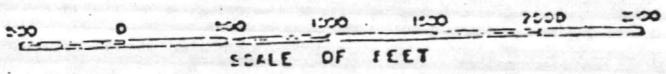
RECREATION AREA & POND

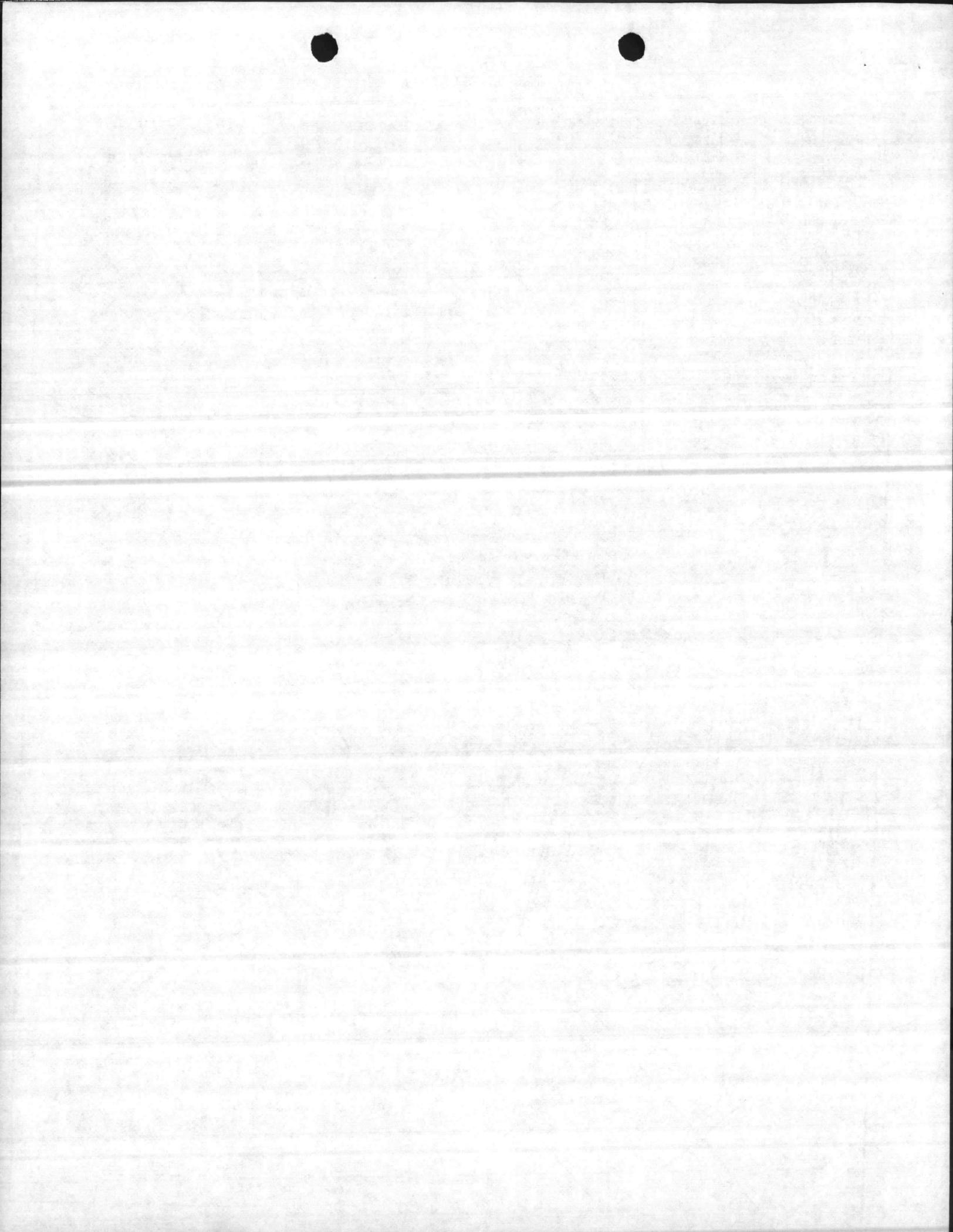
HADNOT POINT AREA

CAMP LEJEUNE, NORTH CAROLINA

SHOWING CONDITIONS ON

JUNE 30, 1979





1. COMPONENT
MARINE CORPS

FY 19 98 MILITARY CONSTRUCTION PROJECT DATA

2. DATE
REVISED
15 Jan 1986

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

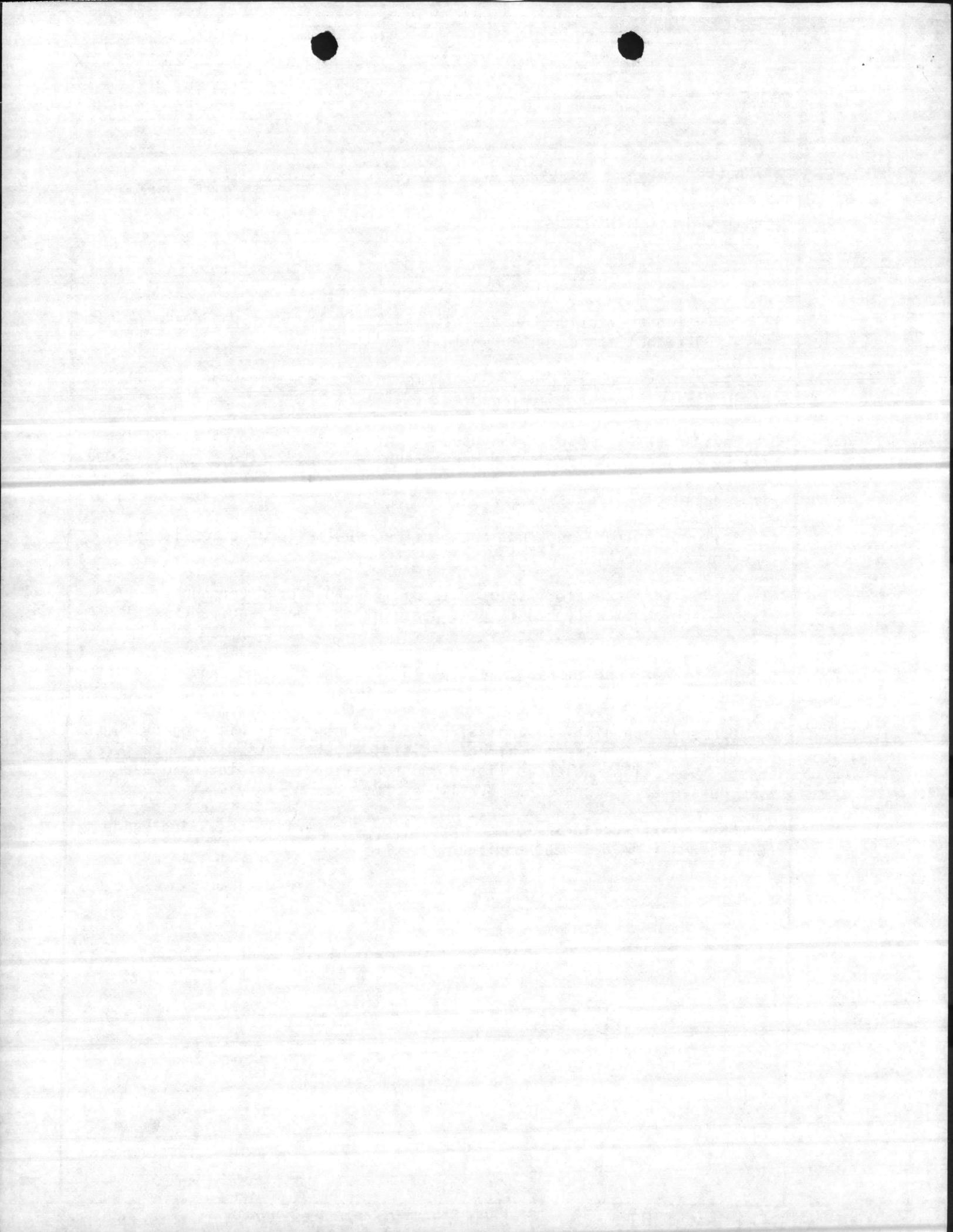
COMBAT VEHICLE MAINTENANCE SHOPS

5. PROJECT NUMBER

P-678

SPECIAL CONSIDERATIONS

1. Pollution Prevention, Abatement, and Control: This project will not cause additional air or water pollution.
2. Flood Hazard Evaluation: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.
3. Environmental Impact: The project Environmental Impact Assessment will be written, reviewed, and where required, the design concepts given consideration to eliminating adverse environmental effects consistent with applicable directives.
4. Fallout Shelter Construction: Fallout shelter protection is not incorporated in this project.
5. Design for Accessibility of Physically Handicapped Personnel: Provisions for physically handicapped personnel are not required in this project.
6. Use of Air Conditioning: Ceiling "U" factors will be made to conform with DOD 4270.1-M.
7. Preservation of Historical Sites and Structures: This project does not directly or indirectly affect a district, site, building, structure, object, or setting which is listed in the National Register or otherwise possesses a significant quality of American history.
8. "New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76): Not applicable.



1. COMPONENT

MARINE CORPS

FY 1988 MILITARY CONSTRUCTION PROJECT DATA

2. DATE

REVISED

15 JAN ;986

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER

P-678

FACILITY STUDY

1. Provide two Vehicle Maintenance Facilities for the 10th Marines Regiment; a Vehicle/Ordnance Maintenance facility for the 4th Bn, 10th Marines, a Vehicle/Engineer Support Equipment Maintenance Facility for Headquarters Battalion/Target Acquisition Battery, 10th Marines. Provide a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area.

2. Current and Planned Future Workload With Regard to this Project: The percentage of usage for these facilities is 100 percent of the time, and the duration of need is indefinite. There is no projected decrease in the necessary maintenance and repair of organizational equipment required to be performed in these facilities.

3. Description of Proposed Construction:

a. Type of Construction:

(1) Permanent wheeled and tracked Combat Vehicle/Ordnance/Engineer Equipment Maintenance Facilities. The facilities will be constructed with steel frame, masonry construction with pile and reinforced concrete foundations, built-up roof over insulation, interior and exterior utility systems along with telephone and telephone equipment installation.

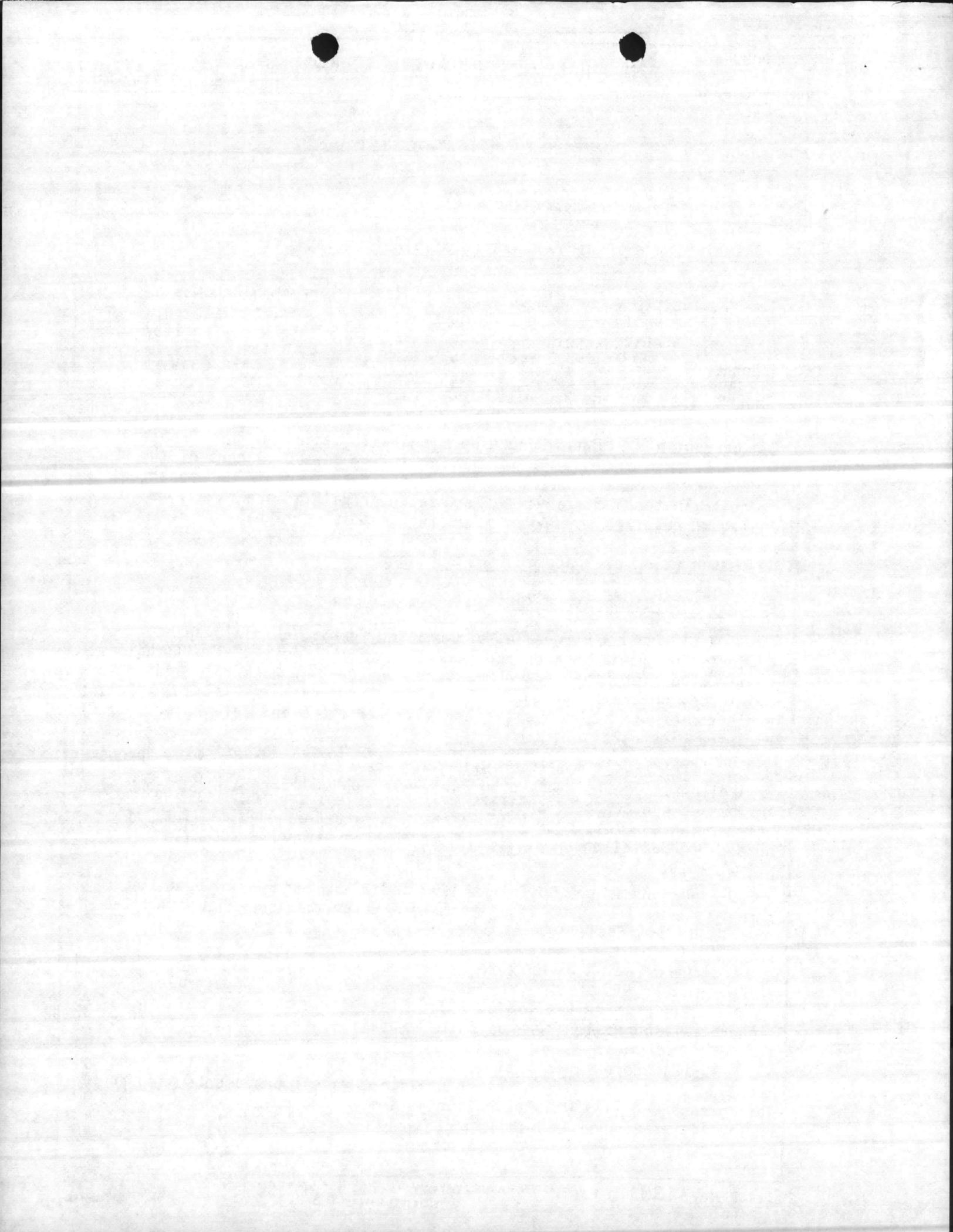
(2) These facilities will have reinforced concrete wash aprons with pollution controls and sand haul away capabilities, rigid and flexible walks, overhead shelters with electrical service, parking and a connecting concrete road between the 5th Battalion Area and the 1st, 2nd and 3rd Battalion Area, along with fencing, lighting and site improvements.

b. Replacement: Buildings 1750 and 1755, two substandard Block Buildings, will be demolished to make way for the construction of the new HQ Battery Facility.

c. Description of Work to be Done:

(1) Primary Facilities (3): Steel frame, modular reinforced concrete/masonry structure on pile foundation.

(2) Support Facilities: Rigid and flexible pavements, security fencing and lighting, connecting utilities site improvements wash and oil/grease facility with pollution abatement controls with sand removal capability, and overhead shelters with electrical service.



1. COMPONENT MARINE CORPS	FY 1928 MILITARY CONSTRUCTION PROJECT DATA	2. DATE REVISED 15 JAN 1986
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE COMBAT VEHICLE MAINTENANCE SHOP	5. PROJECT NUMBER P-678	

3. Description of Proposed Construction: (Continued)

(3) Energy Conservation: Energy efficient equipment and building orientation for maximum energy conservation will be utilized.

(4) Collateral Equipment: To be provided by separate correspondence. The present Estimated Value of this equipment is \$60,000.

(5) Supporting Facilities: Special piling, foundations, connecting utilities, a connecting concrete road, site improvements, pollution abatement and hazardous flammable storage.

4. Cost Estimate: The area cost factor for Camp Lejeune is 0.86. Cost data derived from Military Construction Cost Review Guide, for FY-84 (4270.1G). Cost escalated to April 1988.

5. Justification for Project and for Scope of Project:

a. Justification for Project:

(1) Project: Proposed facility is required to provide the Artillery Regiment (10th Marines 2MARDIV) adequate and secure facilities to perform Combat Vehicle/Ordnance Maintenance.

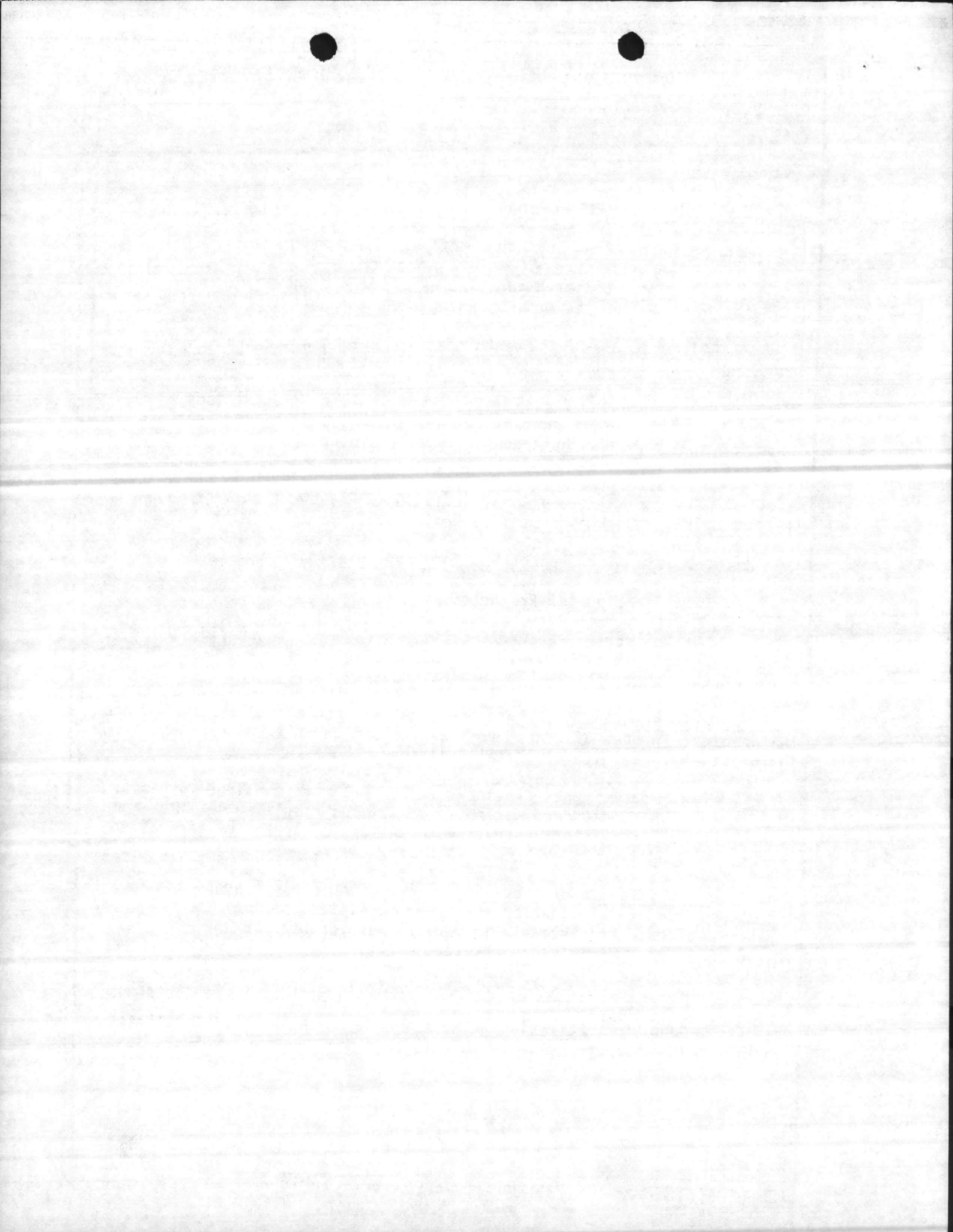
(2) Current Situation: Personnel are now accomplishing Ordnance Maintenance in open Gun Park Areas and Combat Vehicle/Engineer Equipment Maintenance in a temporary Metal Building.

(3) Impact if Not Provided: Personnel will continue to perform Maintenance in substandard makeshift facilities resulting in time-consuming and inefficient operations with loss of work time and wasted energy.

b. Justification of Scope of Project: The project scope, 61,600 is the minimum total size for (2) two facilities to meet the prescribed space requirements to perform maintenance for the 10th Marine Artillery Vehicle/Ordnance equipment.

6. Equipment Provided From Other Appropriations: Not Applicable.

7. Common Support Facilities. There are no common support facilities in Hadnot Point appropriate to this sort of maintenance requirement.



1. COMPONENT

MARINE CORPS

FY 1988 MILITARY CONSTRUCTION PROJECT DATA

2. DATE
REVISED

15 JAN 1986

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER

P-678

8. Effect on Other Resources: This project will require some increase to the O&M, MC funding requirements since some of these Maintenance operations will be transferred from outdoor open lot to indoor lighted and heated areas. No additional personnel will be required to operate this function. This project will enhance and improve the morale of personnel. Proposed construction should be responsive to the challenges presented by the energy situation and comply with the requirements of Executive Order 12003 of 20 July 1977 and implemented by NAVFACINST 4100.5A.

9. Siting of the Project: These two buildings will be sited in the Division Shop Area. See enclosure (1) for the two sites.

10. Other Graphic Presentations, Including Photographs: None.

11. Economic Analysis: This facility is being constructed on a site adjacent to a developed area. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of a mission in this area.

12. Environmental Impact: An environmental impact assessment of the area has been made and it has been determined that this project will have neither a significant impact on the environment nor is it highly controversial.

13. Quantitative Data:

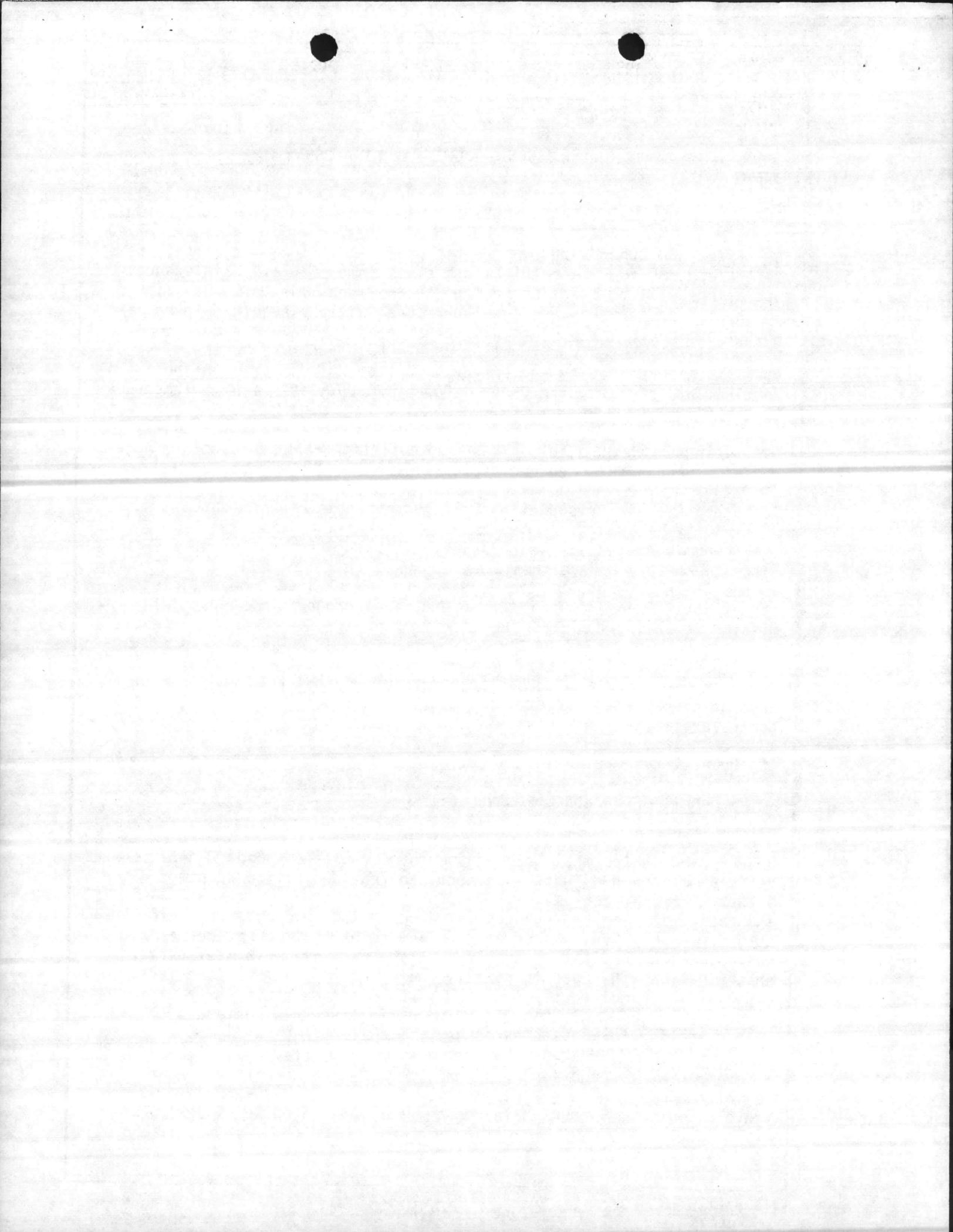
a. UNIT OF MEASURE "SQUARE FEET"

b. TOTAL REQUIREMENT: 402,531 SQUARE FEET

NAVFAC P-80 states that the requirement for Category Code 214-51, Combat Vehicle Maintenance Shop, is determined from definitive drawings given in NAVFAC P-272, Part IV.

The reorganization and changes in weaponry that has occurred with the 10th Marine Regiment has created deficiencies that cannot be met with current NAVFAC definitive drawings. Each facility must meet certain specifications in order to satisfy the space requirements and functional capabilities required to effectively store and maintain the equipment involved. Accordingly the following definitive drawings are provided as a guideline for design purposes:

Function	Total Square Ft	Definitive Dwg No.
Vehicle/Ordnance Maintenance Facility	36,260SF	1293372
Vehicle/Engineer Support Maintenance Facility	25,400SF	1293371



1. COMPONENT

FY 1988 MILITARY CONSTRUCTION PROJECT DATA

2. DATE REVISED

15 JAN 1986

MARINE CORPS

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER

P-678

13. Quantitative Data: (Continued)

- c. EXISTING SUBSTANDARD 133,472 SQUARE FEET
- d. EXISTING INADEQUATE 0 SQUARE FEET
- e. EXISTING ADEQUATE 177,664 SQUARE FEET
- f. OTHER ASSETS, NOT IN INVENTORY - 0 SQUARE FEET
- g. FUNDED, NOT IN INVENTORY 70,174 SQUARE FEET

<u>PROJ. NO.</u>	<u>AREA(SF)</u>	<u>STATUS</u>
P-525	30,837	FY-87
P-196	30,837	FY-90
P-568	8,500	FY-90

- h. ADEQUATE ASSETS (e + f + g) 247,838 SQUARE FEET
- i. DEFICIENCY (b - h) 155,006 SQUARE FEET

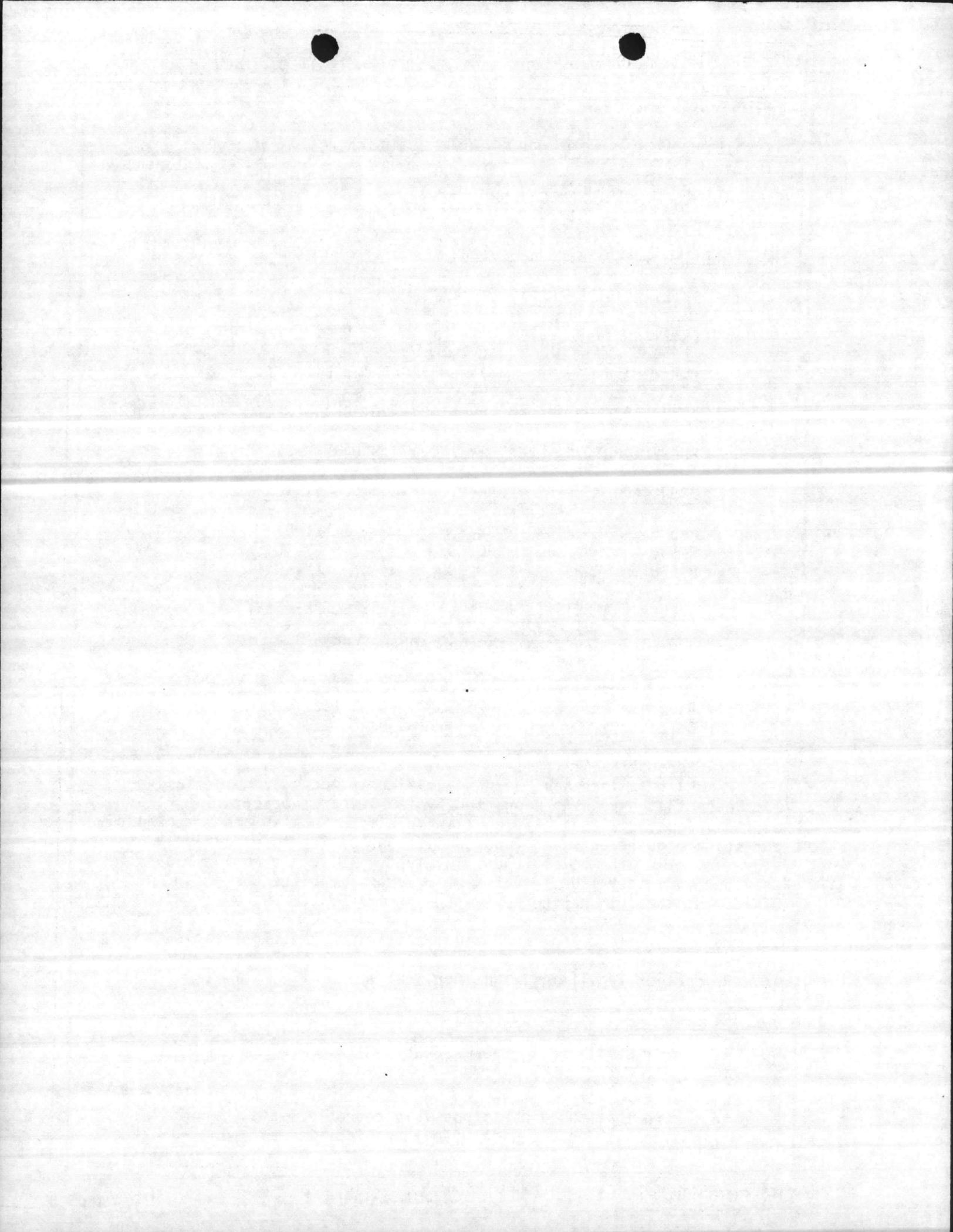
Total Requirement	402,531 SQUARE FEET
Adequate Assets	-247,838 SQUARE FEET
Deficiency	154,693 SQUARE FEET

14. Maintenance Facilities:

Planning factors have been identified in terms of quantitative workloads that have been supported by the level of utilization. Each of the ~~three~~ facilities have certain specifications in order to satisfy the space requirements and functional capabilities to effectively store and maintain the equipment involved. This information has been provided by letter 11000 dated 14 Jan 1985, from the Commanding Officer of the 10th Marine Regiment.

- 15. Morale, Welfare and Recreation Facilities: Not Applicable.
- 16. Relocation Facilities: Not Applicable.
- 17. Storage Facilities: Not Applicable.
- 18. Hazards Identification, Assessment and Analysis:

a. System safety engineering and management programs will be used to ensure that the highest possible degree of safety and occupational health is designed into these facilities.



1. COMPONENT MARINE CORPS	FY 1988 MILITARY CONSTRUCTION PROJECT DATA	2. DATE REVISED 15 JAN 1986
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE COMBAT VEHICLE MAINTENANCE SHOP	5. PROJECT NUMBER P-678	

18. Hazards Identification, Assessment and Analysis: (Continued)

b. The requirement for applying system safety engineering principles and management to this facility will include the following documentation:

- (1) A listing of primary hazards identified.
- (2) Risk assessment data, leading to the assignment of a "risk assessment code", shall be in accordance with OPNAVINST 5100.23, Navy Occupational Safety and Health (NAVOSH) program.
- (3) A preliminary hazard analysis (PHA) will be submitted as required.

