



DEPARTMENT OF THE NAVY

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

TELEPHONE NO.

(804) 444-9650

IN REPLY REFER TO:

11010

09A25

28 NOV 1987

From: Commander, Atlantic Division, Naval Facilities Engineering Command  
To: Commander, Naval Facilities Engineering Command (Code 21)

Subj: FY-90 MARINE CORPS COST CERTIFICATION SUBMITTAL FOR PROJECT P-804,  
FIELD MAINTENANCE COMPLEX (INCREMENT 3), MARINE CORPS BASE, CAMP LEJEUNE

Ref: (a) COMNAVFACENGCAM ALEXANDRIA VA 062151Z Feb 87  
(b) COMNAVFACENGCAM ALEXANDRIA VA NAVGRAM Ser 0512/87223 of 31 Mar 87

Encl: (1) Cost Certification dtd 25 Nov 87 for \$21,000,000

1. As requested by reference (a), enclosure (1) prepared in accordance with reference (b) is submitted.
2. Increment 1 is currently under construction and very poor soil conditions were found causing us to suspect that a pile foundation will be required for Increment 3. Additionally, various toxic substances are going to be handled in this facility necessitating large amounts of ventilation which in turn require large amounts of HVAC. Approximately 430 tons of HVAC are required.

Wm. H. RUSSELL, P.E.  
By direction

Copy to:  
COMNAVFACENGCAM (Code 05)  
CMC (Code LFF)  
MCB CAMP LEJEUNE (Facilities)  
MCB CAMP LEJEUNE (PWO)

*Larry  
Fred  
Karen  
FT*

89-1011 8 S

UNITED STATES MARINE CORPS  
Marine Corps Base  
Camp Lejeune, North Carolina 28542-5001

ENVIRONMENTAL IMPACT/ENVIRONMENTAL ENHANCEMENT REVIEW BOARD

PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA) Date: DEC 04 1987

Subj: FIELD MAINTENANCE COMPLEX, INCREMENT 3

*p-804*

Action Sponsor: CG, 2d FSSG

In accordance with Base Orders 11000.1B and 11015.2G, the subject action has been reviewed by the Marine Corps Base Environmental Impact Review Board.

BOARD ACTION

\_\_\_\_\_ The Board agreed there appears to be no significant environmental impact or controversy associated with this project.

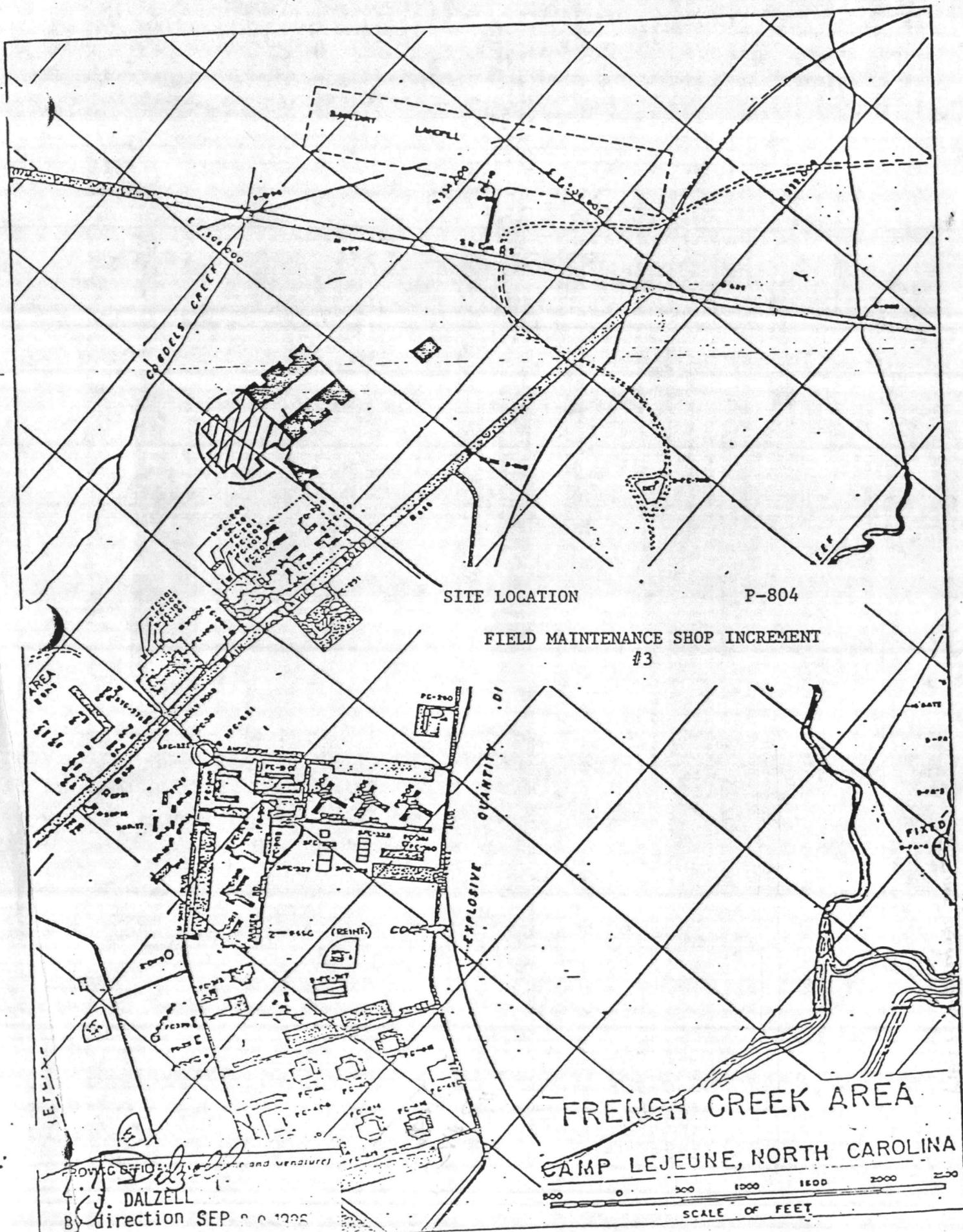
XX \_\_\_\_\_ The Board agreed there appears to be no significant environmental impact or controversy associated with this project provided:

1. An approved sediment control plan is obtained during project design from NC Division of Land Quality, Wilmington, NC.
2. Adequate storage for hazardous material/waste is included in project design.
3. Design of new underground storage tanks is completed per state standards, and registration of new tanks with NC Division of Environmental Management is forwarded through MCB Facilities Department within 30 days of installation.
4. Commercially harvestable timber is removed from the site prior to construction site preparation.
5. Approval of water and sewer extension plans and specifications is obtained from the State of NC as needed.
6. Design of oil/water separators shall include grit chambers and shall consider accessibility for maintenance.
7. Control of stormwater complies with revised state of North Carolina regulations.

\_\_\_\_\_ The Board agreed there is potential environmental impact with the project and recommends the following:

*Encl (1)  
page 8 of 19*





SITE LOCATION

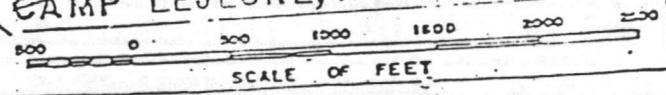
P-804

FIELD MAINTENANCE SHOP INCREMENT  
#3

EXPLOSIVE QUANTITY .01

FRENCH CREEK AREA

CAMP LEJEUNE, NORTH CAROLINA



ROYAL ENGINEERS and Surveyors  
T. J. DALZELL  
By direction SEP 20 1936

P-804  
Field Maint Complex (INCR III)

BO 11000.1B  
1 May 1984

10/9/87

REQUEST FOR ENVIRONMENTAL IMPACT REVIEW; FORMAT AND PROCEDURES FOR SUBMISSION OF

1. Action Sponsor: 2D FSSG
2. Name, Address, Phone Number of Point of Contact: Major Bancroft  
G-4 Facilities Office 3456/3390
3. Title and Brief Description of Proposed Action (state purpose, when proposed action is to occur, and any proposed environmental protection measure):

Project P-804 Field Maintenance Complex (increment 3) construct permanent two-story shops and craneway with reinforced concrete foundation, concrete floors, masonry walls, built up roof and structural steel frame. Interior support systems include air conditioning, steam compressed air, lube dispensing, plumbing, engine exhaust system, spray paint booth, overhead bridge cranes (75 ton, 20 ton, 15 ton, 10 ton, 5 ton and 1 ton); jib cranes (2 ton), overhead monorails (1 ton), twin post hydraulic vehicle lifts and wire partitions. Exterior support facilities includes concrete hardstand, concrete tank trail with roadway crossing, bituminous parking area, area lighting, security fencing, site work and utilities. (82 tons air conditioning)

This project will not cause additional air or water pollution.

The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consist with applicable directives.

"CARC"  
PAINT

ENCLOSURE (1)

BO 11000.1B  
1 May 1984

4. Location: Attach a Camp Lejeune Special Map (or equivalent quality map) showing location of proposed action/project site(s).

5. Potential Environmental Impact/Considerations: (See Note 1)

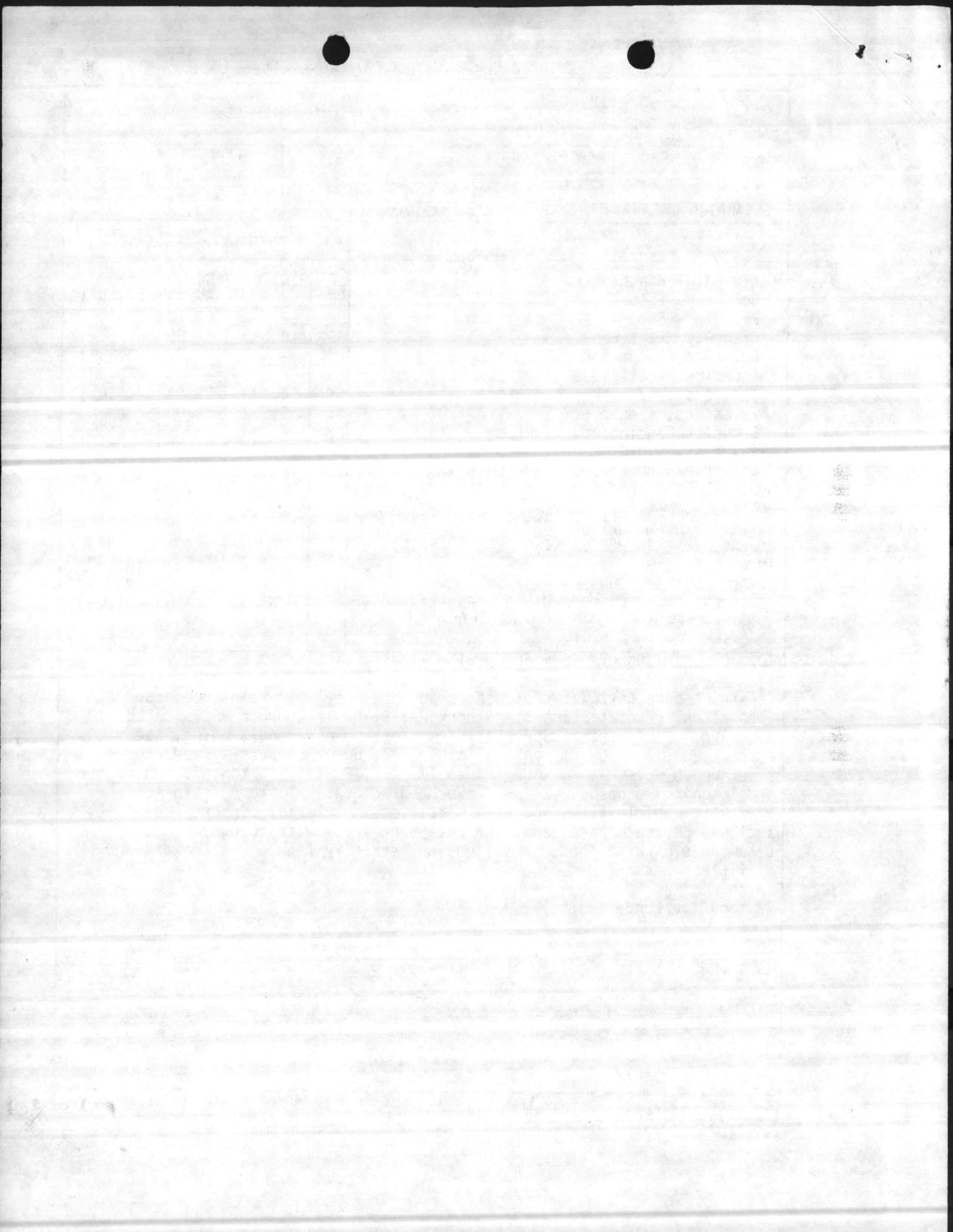
- a. Air Quality: Will there be any open burning associated with the project/action? No Will there be any new boilers, incinerators or fuel storage tanks (larger than 1,000 gallons) provided? No Will there be any paint booths, solvent vats, degreasers or other vapor-producing industrial processes involved? Yes Will the project involve the use or disposal of asbestos? No Will project cause dust problems? No
- b. Land Quality: Will the action require use of significant amount of earthen fill material? No Will there be an increase in level of soil disturbance/damage to vegetation? No Will there be one acre or more of land cleared/disturbed? No
- c. Groundwater Quality: Does the project involve use of herbicides, insecticides or other pesticides in significant amounts? No 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? Yes Will there be a net increase of solid waste caused by implementing the project/action? No Will the project or action be carried out within 200 feet of a drinking water supply well? No
- d. Surface Water Quality: Is the project located on or in a water body or adjacent 100-year flood plain? No Will the project involve construction of drainage ditches/underground drains for purposes of lowering water table? No Will all wastewater be connected to sanitary sewer? Yes Will there be an increase in erosion/siltation from soil disturbing activity? No Will petroleum oil and lubricants be routinely stored or used at the site? Yes Will the project increase rates of surface/storm water run-off? No
- e. Natural Resources: Will there be a loss of forest land? No Will public access for hunting, boating, fishing, etc., be restricted? No Is there a change in land use from what is presently shown in Base Master Plan? No Will removal of existing vegetation be required? Yes Are there any known effects on any endangered species? No 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? Yes Will any noise, traffic, dust, etc., be generated which may affect off-base persons or property? No Is there any known controversy associated with the type of project or action proposed? No Are there any historical or archaeological sites affected by project/action? No

NOTE 1. Answer either "yes", "no" or "unknown". Answers should be based on information available to the action sponsor at time of submission to the Base Environmental Impact Review Board. Do not delay the submission of this request awaiting additional information. Many environmental considerations need to be addressed in early planning stages. If additional information becomes available after submission, it should be forwarded to the EIRE.

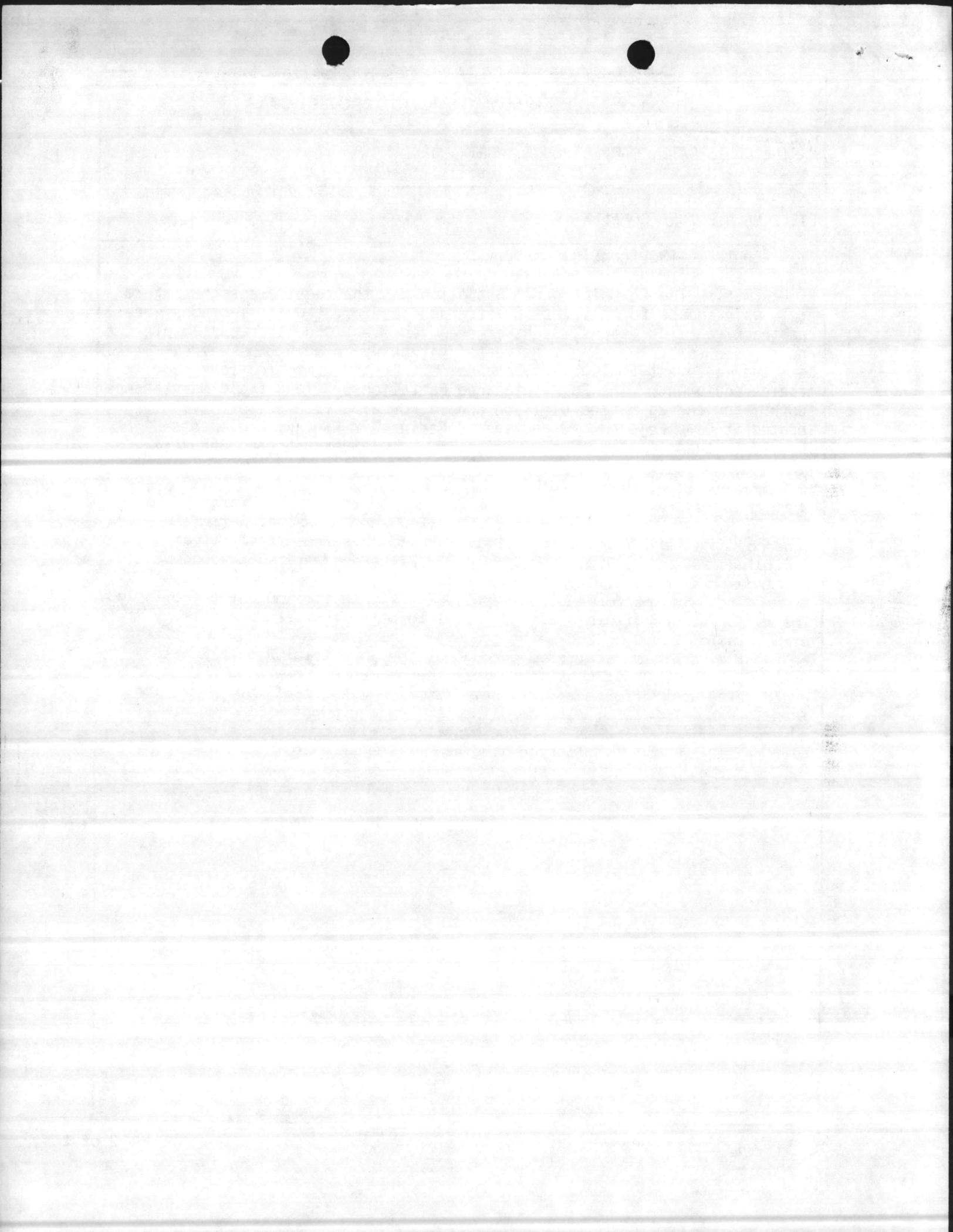
ENCLOSURE (1)

ENCL 6

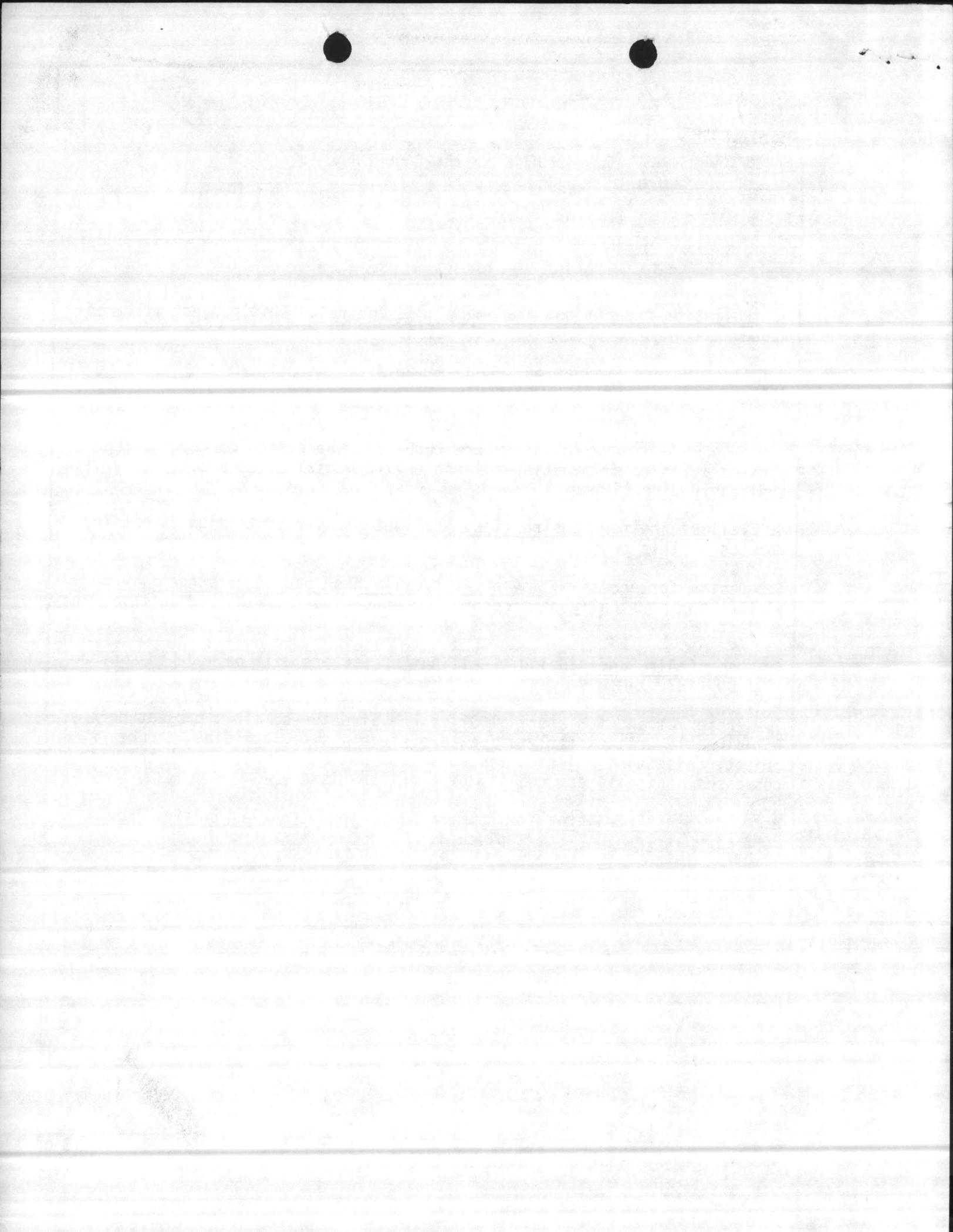
1. COMPONENT NAVY		FY 19 <sup>90</sup> MILITARY CONSTRUCTION PROJECT DATA			2. DATE REVISED 3 Nov 86	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542				4. PROJECT TITLE FIELD MAINTENANCE COMPLEX		
5. PROGRAM ELEMENT		6. CATEGORY CODE 214-53	7. PROJECT NUMBER P-804		8. PROJECT COST (\$000) 19,000	
ESCALATED TO APRIL 1990				9. COST ESTIMATES		
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
FIELD MAINTENANCE SHOP		SF	210,300	84.34	14,533	
Building- Shop 2		SF	47,500	62.72	(2,504)	
Building- Shop 4		SF	52,800	62.72	(2,784)	
Craneway		SF	110,000	82.63	(6,889)	
Built-in Equipment		LS	-	-	(2,356)	
Supporting Facilities		LS	-	-	2,482	
Tank trail w/highway crossing		SY	4,400	32.04	(141)	
Pavements, flexible		SY	6,950	14.00	(97)	
Security Fencing and Lighting		LS	-	-	(185)	
Pavement, rigid		SY	35,000	29.02	(1,016)	
Utilities and Site Improvements		LS	-	-	(1,043)	
SUBTOTAL					17,015	
CONTINGENCY - (5%)					851	
ESTIMATED CONSTRUCTION COST					17,866	
SUPERVISION, INSPECTION & OVERHEAD (5.5%)					983	
TOTAL REQUEST					18,849	
TOTAL REQUEST (ROUNDED)					19,000	
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS		-	NON ADD		(0)	
"Cost escalated from FY-89 to FY-90, by a cost factor of 1.04."						
10. DESCRIPTION OF PROPOSED CONSTRUCTION:						
<p>Construct permanent two-story shops and craneway with reinforced concrete foundation, concrete floors, masonry walls, built-up roof and structural steel frame. Interior support systems include air conditioning, steam, compressed air, lube dispensing, plumbing, engine exhaust system, spray paint booth, overhead bridge cranes (75 ton, 20 ton, 15 ton, 10 ton, 5 ton and 1 ton); jib cranes (2 ton), overhead monorails (1 ton), twin post hydraulic vehicle lifts and wire partitions. Exterior support facilities includes concrete hardstand, concrete tank trail with roadway crossing, bituminous parking area, area lighting, security fencing, site work and utilities.</p> <p>(82 tons Air Conditioning)</p>						
11. REQUIREMENT: 448,840 SF ADEQUATE: 0 SF SUBSTANDARD: 165,448 SF						
PROJECT: Construct a Field Maintenance Shop (third and fourth echelon maintenance) for the 2nd Maintenance Battalion, 2d Force Service Support Group to maintain and repair all East Coast Fleet Marine Force ground equipment.						



1. COMPONENT NAVY	FY 19 <sup>90</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE Revised 3 Nov 86
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX		5. PROJECT NUMBER P-804
<p>11. <u>REQUIREMENTS: (cont'd)</u></p> <p><u>REQUIREMENT:</u> The 2d Maintenance Battalion has the requirement to perform field maintenance for all East Coast ground equipment which includes wheel and track vehicles (tanks, light armored vehicles, trucks, etc.), ordnance repair (artillery and tank weaponry), heavy construction weight handling equipment (bulldozers, cranes, etc.), and communications/electronics equipment. The 2d Maintenance Battalion provides field maintenance support for the 2d Marine Division and 2d Force Service Support Group located at Camp Lejeune, NC and the 2d Marine Air Wing with elements located in these areas: Cherry Point, NC; New River, NC; and Beaufort, SC. This facility will provide adequate maintenance shops for Artillery and Ordnance Field Maintenance.</p> <p><u>CURRENT SITUATION:</u> The 2nd Maintenance Bn., performs field maintenance in only 165,448 SF of area in four converted warehouses, a WW-11 maintenance depot, and a small metal Butler building. These facilities (Buildings 900, 901, 902, 905, 1607 and 1771) are scattered throughout the Industrial Area of Camp Lejeune. The Artillery and Ordnance maintenance is being performed at several areas within the indicated facilities. The metal Butler buildings are too small to bring the larger artillery pieces inside for required maintenance. Staging areas for equipment to be repaired are also scattered throughout the Industrial Area. Scattering of and makeshift substitute work spaces cause cumbersome and uncoordinated work efforts severely hampering the mission of this Battalion.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The deadline time on equipment will remain adversely affected and maintenance capability will continue to be impaired with resulting adverse affect on the combat readiness of the Fleet Marine Force.</p>		



1. COMPONENT NAVY	FY 19 <sup>90</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE Revised 3 Nov 86
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX		5. PROJECT NUMBER P-804
<p style="text-align: center;"><u>SPECIAL CONSIDERATIONS</u></p> <ol style="list-style-type: none"> <li>1. <u>Pollution Prevention, Abatement, and Control</u>: This project will not cause additional air or water pollution.</li> <li>2. <u>Flood Hazard Evaluation</u>: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.</li> <li>3. <u>Environmental Impact</u>: The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.</li> <li>4. <u>Fallout Shelter Construction</u>: Fallout shelter protection is not incorporated in this project.</li> <li>5. <u>Design for Accessibility of Physically Handicapped Personnel</u>: Provisions for physically handicapped personnel are not required in this project.</li> <li>6. <u>Use of Air Conditioning</u>: Ceiling "U" factors will be made to conform with DOD 4270.1-M.</li> <li>7. <u>Preservation of Historical Sites and Structures</u>: 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.</li> <li>8. <u>"New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76)</u>: Not applicable.</li> </ol>		



1. COMPONENT MARINE CORPS		89 19 <u>89</u> MILITARY CONSTRUCTION PROJECT DATA		2. DATE <del>20 Feb 86</del>	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542			4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT 3)		
5. PROGRAM ELEMENT		6. CATEGORY CODE 214-53	7. PROJECT NUMBER P-804	8. PROJECT COST (\$000) <del>22,500</del> 19,000	
9. COST ESTIMATES <i>ESCALATED TO APRIL 89</i>					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
FIELD MAINTENANCE SHOP		SF	210,300	<del>84.34</del>	<del>17,736</del> 14,533
Building- Shop 2		SF	47,500	52.72	(2,979) (2,504)
Building- Shop 4		SF	52,800	52.72	(3,312) (2,784)
Craneway		SF	110,000	82.63	(9,089) (6,889)
Built-in Equipment		LS	-	-	(2,356)
Supporting Facilities		LS	-	-	2,482
Tank trail w/highway crossing		SY	4,400	32.04	(141)
Pavements, flexible		SY	6,950	14.00	(97)
Security Fencing and Lighting		LS	-	-	(185)
Pavement, rigid		SY	35,000	29.02	(1,016)
Utilities and Site Improvements		LS	-	-	(1,043)
SUBTOTAL					<del>20,218</del> 17,015
CONTINGENCY - (5%)					1,011 851
ESTIMATED CONSTRUCTION COST					<del>21,229</del> 17,866
SUPERVISION, INSPECTION & OVERHEAD (5.5%)					<del>1,167</del> 983
TOTAL REQUEST					<del>22,396</del> 18,849
TOTAL REQUEST (ROUNDED)					<del>22,500</del> 19,000
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS		-	NON ADD		(0)
10. DESCRIPTION OF PROPOSED CONSTRUCTION:					
<p>Construct permanent two-story shops and craneway with reinforced concrete foundation, concrete floors, masonry walls, built-up roof and structural steel frame. Interior support systems include air conditioning, steam, compressed air, lube dispensing, plumbing, engine exhaust system, spray paint booth, overhead bridge cranes (75 ton, 20 ton, 15 ton, 10 ton, 5 ton and 1 ton); jib cranes (2 ton), overhead monorails (1 ton), twin post hydraulic vehicle lifts and wire partitions. Exterior support facilities includes concrete hardstand, concrete tank trail with roadway crossing, bituminous parking area, area lighting, security fencing, site work and utilities.</p> <p>(82 tons Air Conditioning)</p>					
11. REQUIREMENT: <u>448,840 SF</u> ADEQUATE: <u>0 SF</u> SUBSTANDARD: <u>165,448 SF</u>					
PROJECT: Construct the third increment (210,300 SF) of a 442,600 SF Consolidated Field Maintenance Facility (3rd and 4th echelon maintenance) for 2nd Maintenance Bn., 2d Force Service Support Group to maintain and repair all East Coast Fleet Marine Force ground equipment.					

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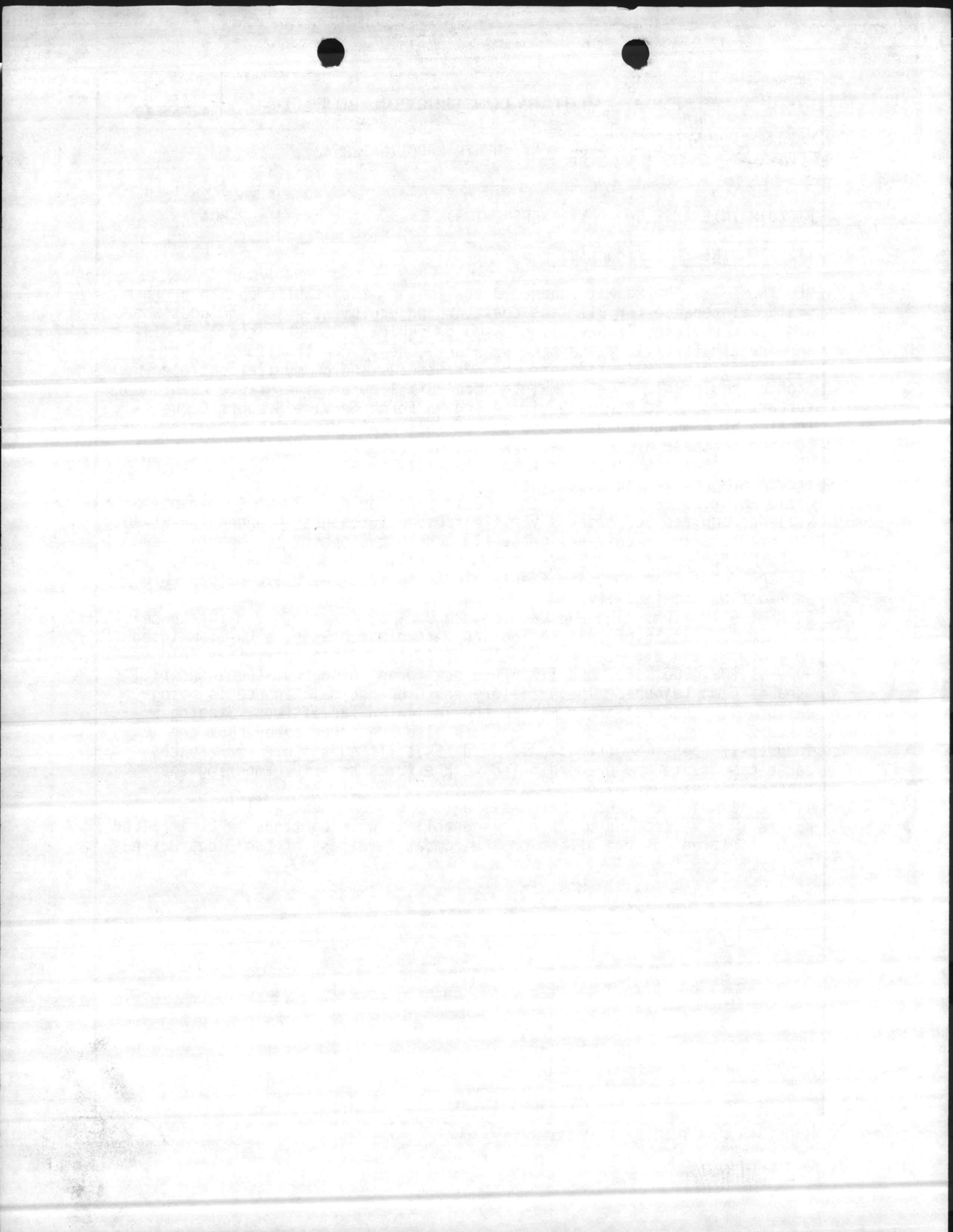
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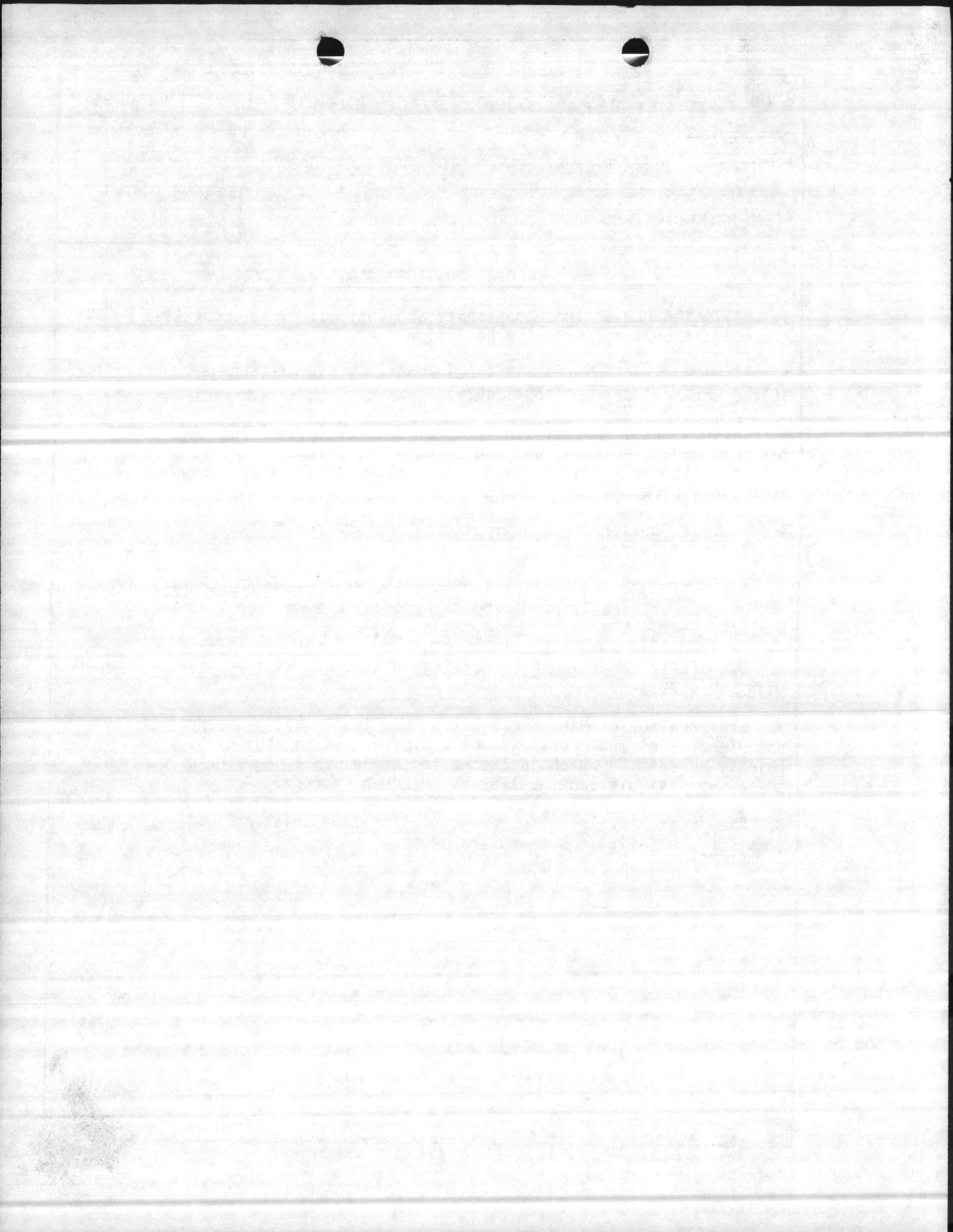
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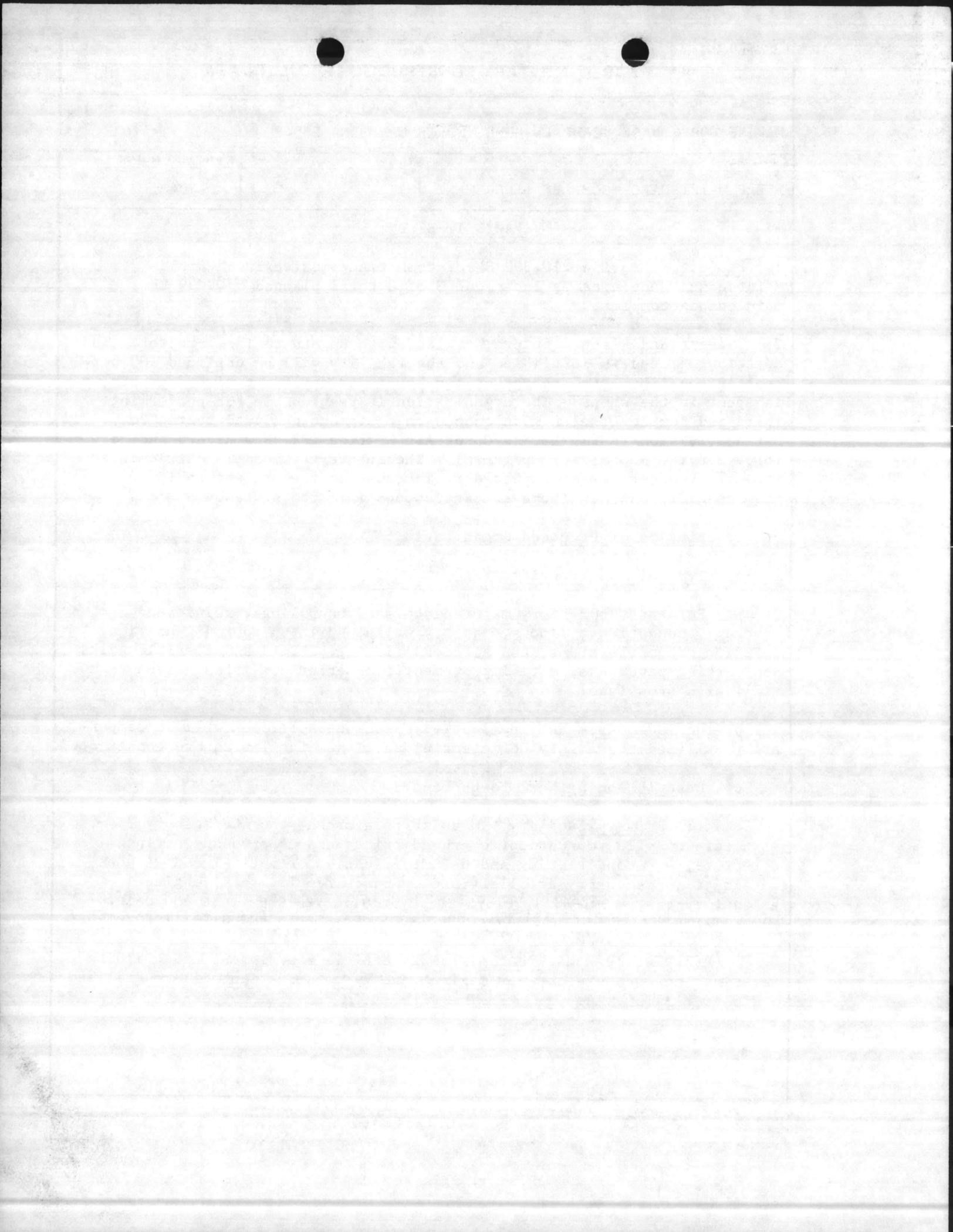
1. COMPONENT MARINE CORPS	FY 19 <sup>89</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE <del>20 Feb 88</del>
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT 3)		5. PROJECT NUMBER P-804
<p>11. <u>REQUIREMENTS: (cont'd)</u></p> <p><u>REQUIREMENT:</u> The 2d Maintenance Battalion has the requirement to perform field maintenance for all East Coast ground equipment which includes wheel and track vehicles (tanks, light armored vehicles, trucks, etc.), ordinance repair (artillery and tank weaponry), heavy construction weight handling equipment (bulldozers, cranes, etc.), and communications/electronics equipment. The 2d Maintenance Battalion provides field maintenance support for the 2d Marine Division and 2d Force Service Support Group located at Camp Lejeune, NC and the 2d Marine Air Wing with elements located in these areas: Cherry Point, NC; New River, NC; and Beaufort, SC. The total requirement for this facility is 448,840 SF. This third increment provides adequate facilities for the Artillery and Ordnance Field Maintenance portion of this facility. One subsequent increment will be required for tracked vehicle field maintenance, planned for FY-90. Two previous increments are presently under development in the FY-87 and FY-88 MILCON programs. These increments will provide adequate facilities for the Motor Transport and Electronic/Communications Field Maintenance portions of the facility.</p> <p><u>CURRENT SITUATION:</u> The 2nd Maintenance Bn., performs field maintenance in only 165,448 SF of area in four converted warehouses, a WW-11 maintenance depot, and a small metal Butler building. These facilities (Bldgs. 900,901,902, 905, 1607 and 1771) are scattered throughout the Industrial Area of Camp Lejeune. The Artillery and Ordnance maintenance is being performed at several areas within the indicated facilities. Staging areas for equipment to be repaired are also scattered throughout the Industrial Area. Scatteration of and makeshift substitute work spaces cause cumbersome and uncoordinated work efforts severely hampering the mission of this Battalion.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The deadline time on equipment will remain adversely affected and maintenance capability will continue to be impaired with resulting adverse affect on the combat readiness of the Fleet Marine Force.</p>		



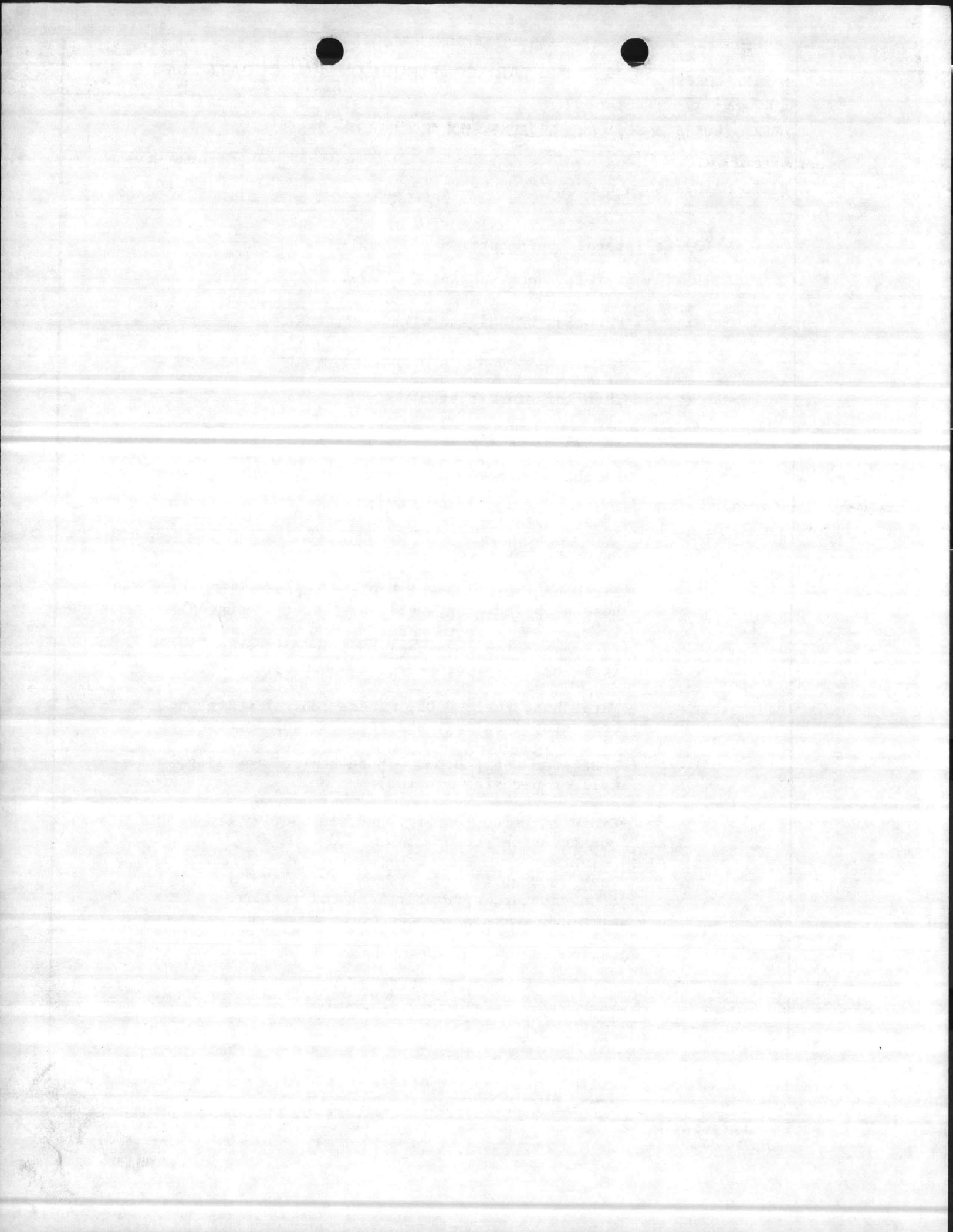
1. COMPONENT MARINE CORPS	FY 19 <sup>89</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
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<p style="text-align: center;"><u>SPECIAL CONSIDERATIONS</u></p> <ol style="list-style-type: none"> <li>1. <u>Pollution Prevention, Abatement, and Control</u>: This project will not cause additional air or water pollution.</li> <li>2. <u>Flood Hazard Evaluation</u>: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.</li> <li>3. <u>Environmental Impact</u>: The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.</li> <li>4. <u>Fallout Shelter Construction</u>: Fallout shelter protection is not incorporated in this project.</li> <li>5. <u>Design for Accessibility of Physically Handicapped Personnel</u>: Provisions for physically handicapped personnel are not required in this project.</li> <li>6. <u>Use of Air Conditioning</u>: Ceiling "U" factors will be made to conform with DOD 4270.1-M.</li> <li>7. <u>Preservation of Historical Sites and Structures</u>: 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.</li> <li>8. <u>"New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76)</u>: Not applicable.</li> </ol>		



1. COMPONENT MARINE CORPS	FY 19 <del>89</del> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	
<p style="text-align: center;"><u>FACILITY STUDY</u></p> <p>1. <u>Project</u>: Provide 210,300 SF of Combat/Automotive/Track Field Maintenance Shop area as Increment 3 of a total planned 448,840 SF maintenance complex.</p> <p>2. <u>Current and Planned Future Workload with Regard to This Project</u>: The duration of need is indefinite and the facility will be utilized 100 percent of the time. An average of ten hours per day for a five-day work week is spent in the shops. The organization is responsible for performing third and fourth echelon maintenance on equipment assigned to the 2d Marine Division (FMF); Marine Corps Air Station (H), New River; and 2d Force Service Support Group (REIN). The future workload is difficult to project; however, it is expected to increase as the present equipment becomes older and new items are introduced into the system.</p> <p>3. <u>Description of Proposed Organization</u>:</p> <p>a. <u>Type of Construction</u>:</p> <p>Permanent two-story maintenance shop on pilings, reinforced concrete foundations, floors, masonry walls, built-up roof, insulation, interior support systems, and air conditioning. Rigid and flexible walks and parking pavements, site improvements, exterior utilities, paved tank trail with crossings.</p> <p>b. <u>Replacement</u>: Not applicable; existing facilities will be temporarily utilized to satisfy deficiencies until new facilities are constructed.</p> <p>c. <u>Description of Work to be Done</u>:</p> <p>(1) <u>Primary Facility</u>: Modular reinforced concrete/masonry structure on pile foundation, overhead bridge cranes with supporting structure, air conditioning and dehumidification of optical and weapons repair areas, security artillery and ordnance repair areas, engine exhaust system, central lube system, hydraulic vehicle lifts and paint spray booth. Exterior utility connections, pavements and site improvements.</p> <p>(2) <u>Energy Conservation</u>: Energy efficient equipment and building materials and orientation for maximum energy conservation will be utilized.</p>		



1. COMPONENT MARINE CORPS	FY 19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	
<p>(3) <u>Collateral Equipment:</u></p> <p>(a) <u>Built-in MCON Funded:</u></p> <ul style="list-style-type: none"> <li><del>*Venetian blinds and window screens</del></li> <li><del>*Air Conditioning, heating, and ventilating systems</del></li> <li>*Interior steam system</li> <li>*Sprinkler system</li> <li><del>*Plumbing system</del></li> <li>*Telephone, fire alarm, and intercom systems</li> <li><del>*Drinking water coolers</del></li> <li>*Air hose reel, 150 PSI H.D., w/hose control valve and hose stop (ceiling, wall, or pedestal mounted)</li> <li>*Elec extension cord reel, H.D. w/cord stop (ceiling, wall, or pedestal mounted)</li> <li>*Water hose reel, H.D., w/hose control valve and hose stop (ceiling, wall or pedestal mounted)</li> <li>*Lube hose reel, H.D., w/hose control (ceiling, wall or pedestal mounted)</li> <li>*Exhaust system, underground (automotive or construction equipment)</li> <li>*Pass window, 4' wide, w/counter &amp; "B" label roll down shutter, w/fusible link, if required</li> <li>* 1 Ton overhead monorail</li> <li>* 1 Ton overhead bridgecrane</li> <li>* 5 Ton overhead bridgecrane</li> <li>*10 ton overhead bridgecrane</li> <li>*15 Ton overhead bridgecrane</li> </ul>		



1. COMPONENT MARINE CORPS	FY 19 <u>89</u> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
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4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	

(3) Collateral Equipment: (Continued)

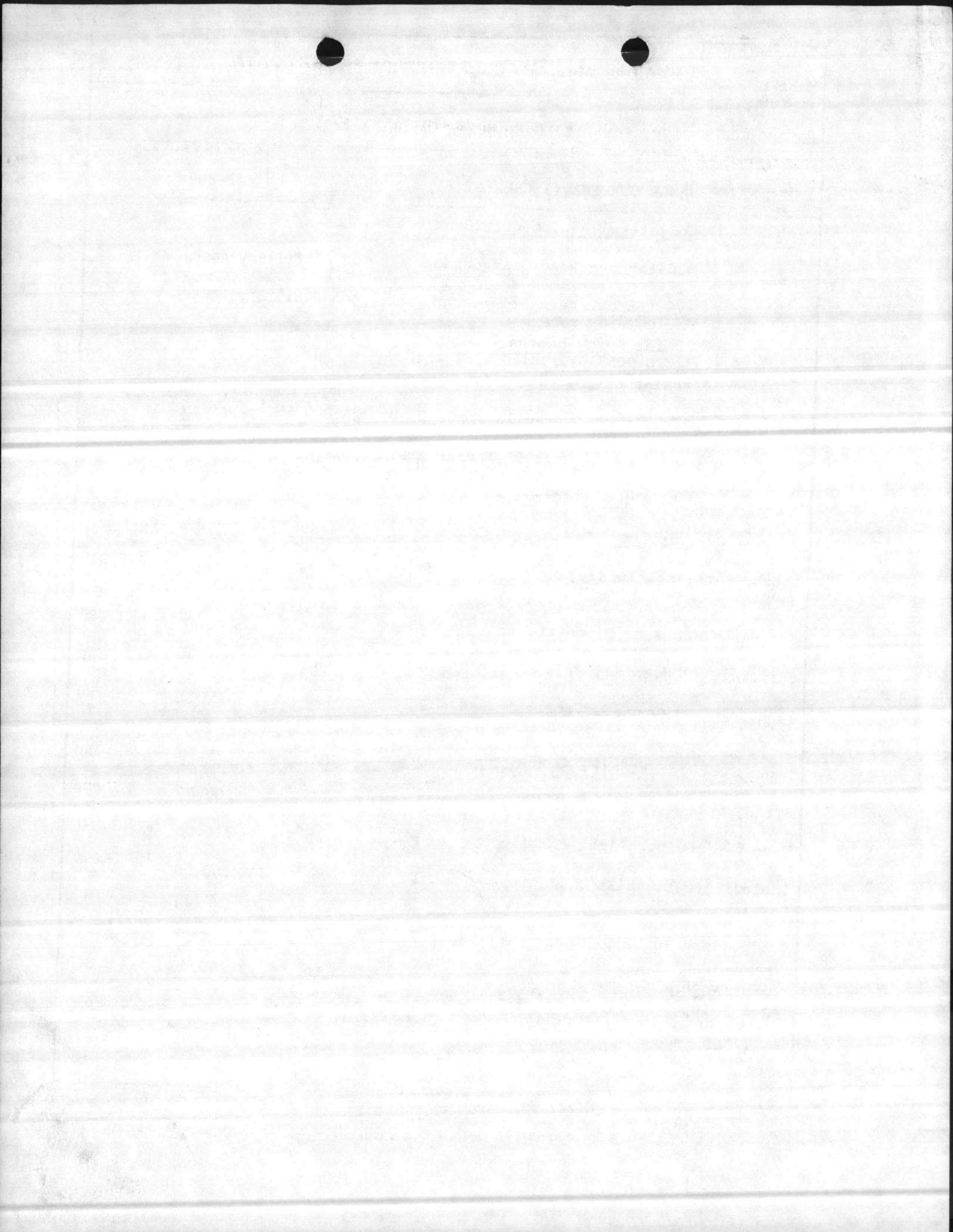
- \*20-ton overhead bridgecrane w/5 ton Auxilliary hook
- \*75-ton overhead bridgecrane w/20 ton Auxiliary hook
- \*2 Ton Jib Crane
- \*Paint spray booths
- \*Twin post hydraulic lift, H.D. 1b capacity
- \*Paint drying oven
- \*Twin post hydraulic lift, H. D., 24,000 lb. capacity
- \*6, 12 & 24 volt DC Engine Start Systems

(b) Expense Items:

<u>Description</u>	<u>Qty</u>	<u>Unit Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Bench, work, stationary, 28"D, 34"H	88	LF	77.59	\$ 6,827
Bin parts, rota, 3'D, multi-bin	3	EA	360.00	1,080
Shelving, 12"W, w/adj Stds	6	EA	90.00	540
Tank, cleaning, parts, portable 38'x22'x34'	2	EA	395.00	790
Bench, work stationary 36"D, 34"H	2	EA	75.00	150
Stand, axle	1	EA	200.00	200
Machine, sewing, light textile	1	EA	750.00	750
Table, layout, 16'x5', light textile	1	EA	200.00	200
Table, work 16'x2', light textile	7	EA	175.00	1,225
Machine, sewing, heavy canvas	3	EA	1,100.00	3,300
Table, work, 16'x7' wood top	3	EA	225.00	675
Shelving, 24"W	1,324	LF	10.00	13,240

DD FORM 1391c  
1 DEC 76

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED



1. COMPONENT MARINE CORPS	FY 19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
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3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542
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4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804
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(b) Expense Items: (Continued)

<u>Description</u>	<u>Qty</u>	<u>Unit Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Machine, OM, cleaning, 2'x5'	1	EA	300.00	300
Tanks, OM equip rinse, 2'x2'	3	EA	35.00	105
Bench, OM repair, 3'x4'	24	EA	60.00	1,440
Bench, electronics repair, 36"x144"x34"H	47	EA	90.00	4,230
Cleaner, ultrasonic (electronic components)	2	EA	1,000.00	2,200
Racks, store 48"Dx48"H	1	EA	125.00	125
Racks, store, 36"Dx24"H	3	EA	100.00	<u>300</u>
TOTAL EXPENSE ITEMS				37,677

(c) INVESTMENT ITEMS - None.

(d) APA EQUIPMENT - None.

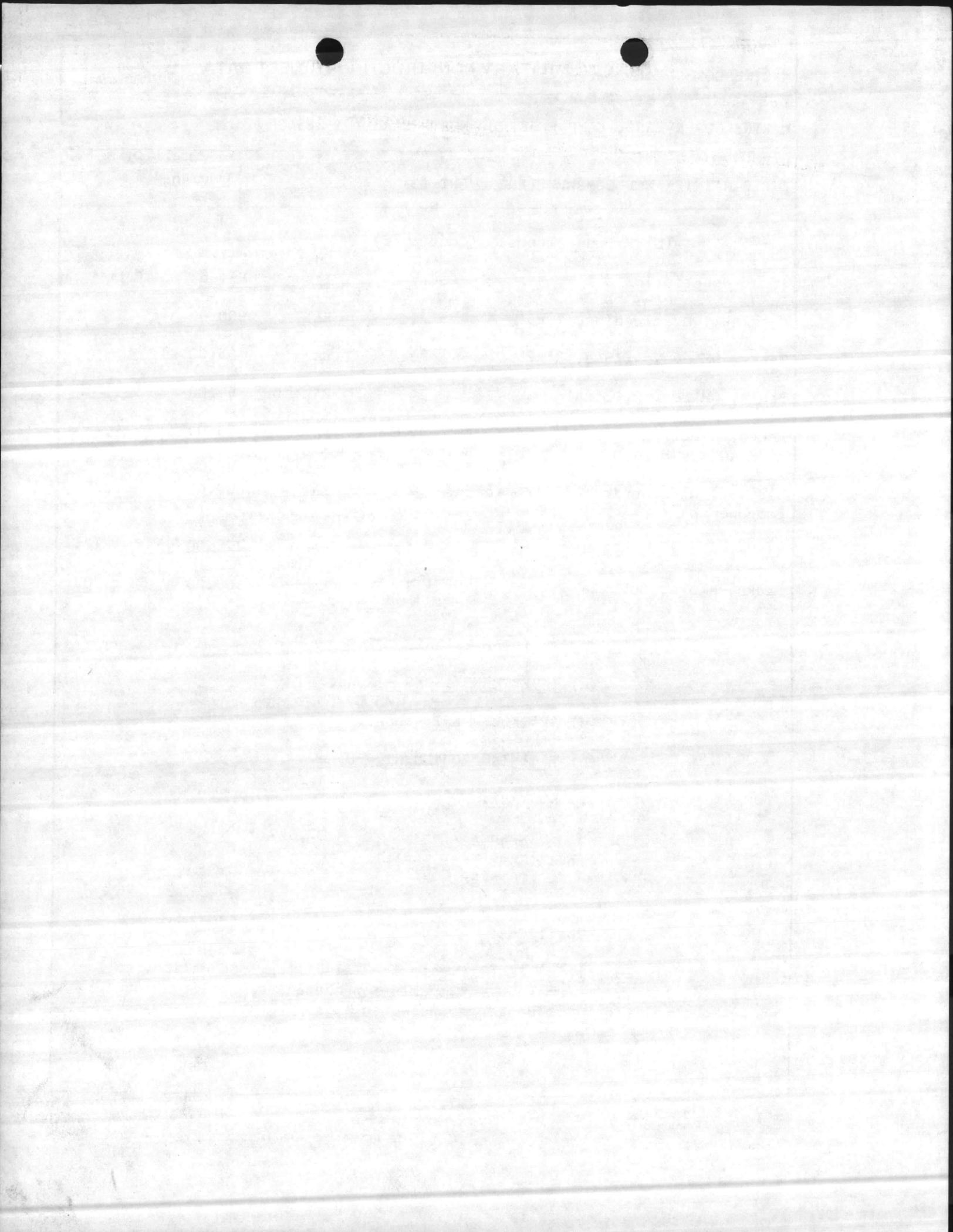
(e) TRAINING EQUIPMENT - None.

(f) SUMMARY:

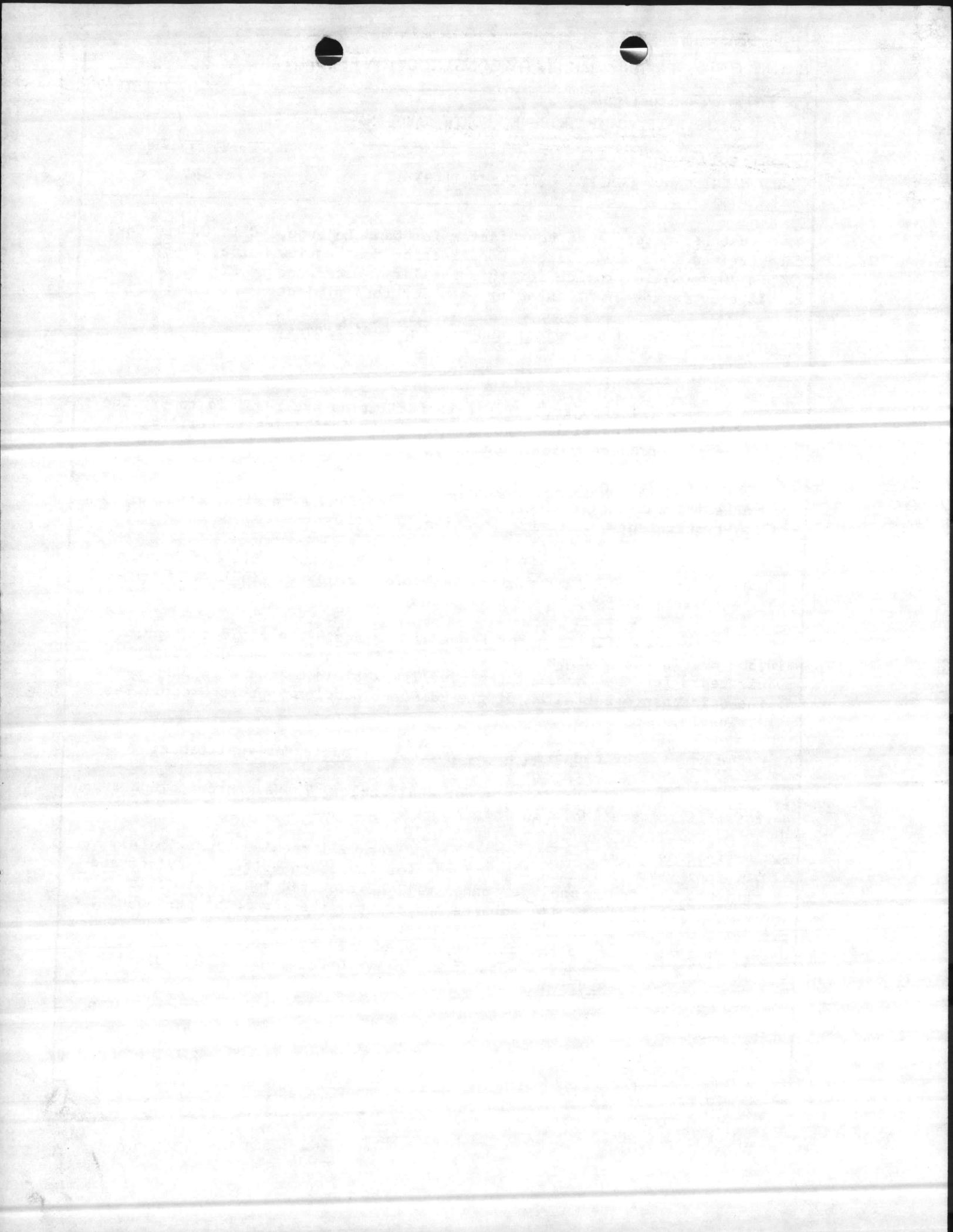
Expense Items	37,677
Investment Cost	-
Training Cost	-

Total Cost 37,677

(4) Supporting Facilities: Special piling, foundation, collateral equipment, site improvement, pollution abatement, utility connections, etc. No demolition will be accomplished on this project.



1. COMPONENT MARINE CORPS	FY 1989 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)		5. PROJECT NUMBER P-804
<p>4. <u>Cost Estimate:</u> Area cost factor for Camp Lejeune, NC is 0.86. Cost data derived from the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG) to provide for this facility, escalated to FY-89. A contingency factor of 5% is being used for this project.</p> <p>5. <u>Justification for Project and for Scope of Project:</u></p> <p style="padding-left: 40px;">a. <u>Justification for Project:</u></p> <p style="padding-left: 80px;">(1) <u>Project:</u> Proposed facilities are required to provide maintenance personnel with adequate and secure facilities to perform artillery and ordnance maintenance.</p> <p style="padding-left: 80px;">(2) <u>Current Situation:</u> Personnel are working in substandard and makeshift facilities that are totally inadequate in size, configuration, utility requirements, and site location.</p> <p style="padding-left: 80px;">(3) <u>Impact If Not Provided:</u> Personnel will continue to work in substandard and makeshift facilities, resulting in loss of work-time and wasted energy.</p> <p style="padding-left: 40px;">b. <u>Justification for Scope of Project:</u> The project scope, 210,300 SF, is the minimum size facility that can meet the deficiency requirements for the Combat/Automotive/Track Field Maintenance Shop needs of the Maintenance Battalion of the 2d Force Service Support Group. See paragraph 13.</p> <p>6. <u>Equipment Provided from Other Appropriations:</u> Not applicable.</p> <p>7. <u>Common Support Facilities:</u> Not applicable. There are no common support facilities available in the French Creek Area.</p> <p>8. <u>Effect on Other Resources:</u> The project will require approximately \$10,000 per year increased O&amp;MMC funds for increased utility services and operations. No additional personnel will be required to operate this facility. The project will enhance and improve the morale of personnel presently working in widely dispersed facilities. 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.</p>		



1. COMPONENT MARINE CORPS	FY 19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	

UTILITY REQUIREMENTS

a. Electricity:

Consumption: 1,500,000 KWHR/YR  
 Peak Demand: 900 KW  
 Avg. Demand: - KW

b. Steam:

Consumption: 2,372,500 Lbs/Yr  
 Demand: 1,500 Lbs/Yr

c. Coal:

- Tons/Yr

d. Adequate utilities will be provided by P-240, FY-85.

9. Siting of the Project: This facility will be located in the French Creek Area, in keeping with the Camp Lejeune Master Plan. See enclosure (1).

10. Other Graphic Presentations, including Photographs: NAVFAC Drawings 1294489, 1294491, and 1294493 submitted as Enclosure (2).

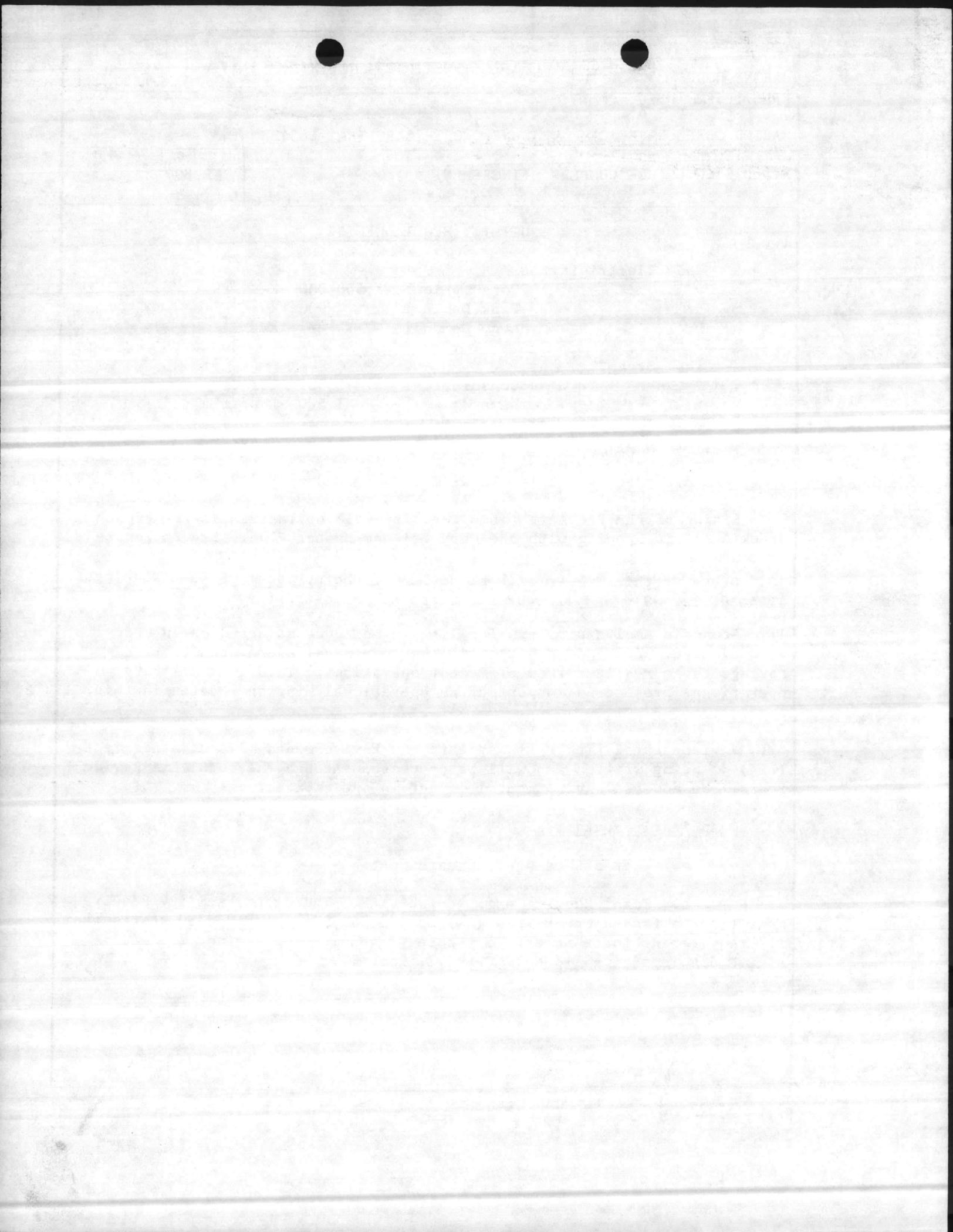
11. Economic Analysis: This facility is being constructed on an undeveloped site. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of an operational mission located in this area.

12. Environmental Impact Assessment: An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

13. Quantitative Data:

a. Unit of Measure: Square feet.

b. Total Requirement: 448,840 SF. The Basic Facility Requirement for the French Creek area (EA) is 448,840 SF. NAVFAC P-80 states that the requirement for this category code (214-53) is determined from definitive drawings given in NAVFAC P-272, Part IV.



1. COMPONENT MARINE CORPS	19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJUENE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)		5. PROJECT NUMBER P-804

<u>NAVFAC DWG #</u>	<u>DESCRIPTION</u>	<u>AREA SF</u>
1294489	Combat/Automotive/Track Fld Maint Shop	220,000
1294490	"	53,000
1294491	"	47,500
1294492	"	48,000
1294493	"	52,800
1294508	Vehicle Inspection Station	7,540
1294444	Operational Readiness Float and Utilities Platoon	20,000
Total		448,840

c. Existing Substandard: 165,448 SF

<u>BUILDING NO.</u>	<u>AREA SF</u>	
900*	3,600	
901*	21,224	
902*	50,064	
905*	13,640	
1601*	62,000	
1771	14,920	
Total		165,448 SF

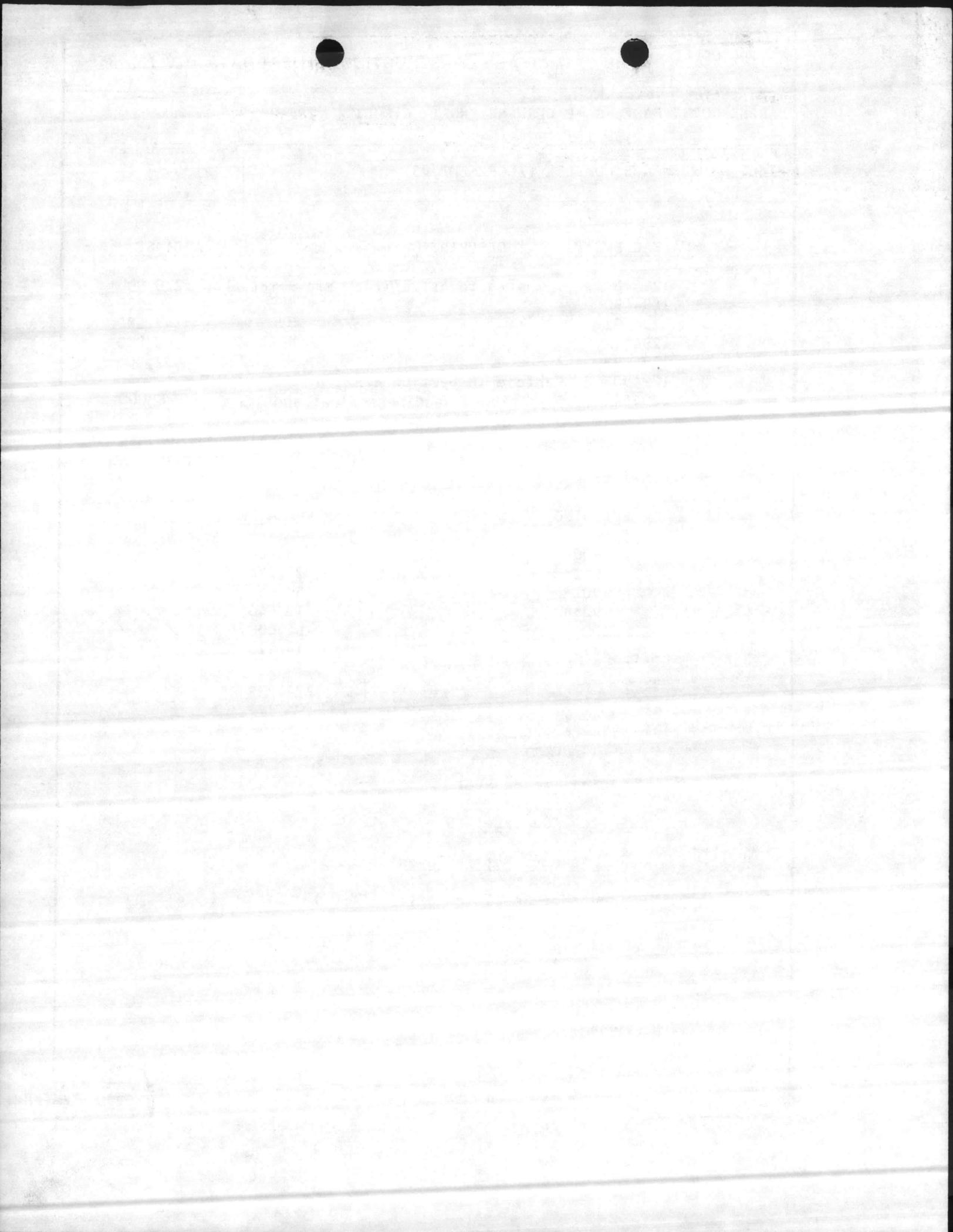
\*multi-use type buildings.

d. Existing Inadequate: 0

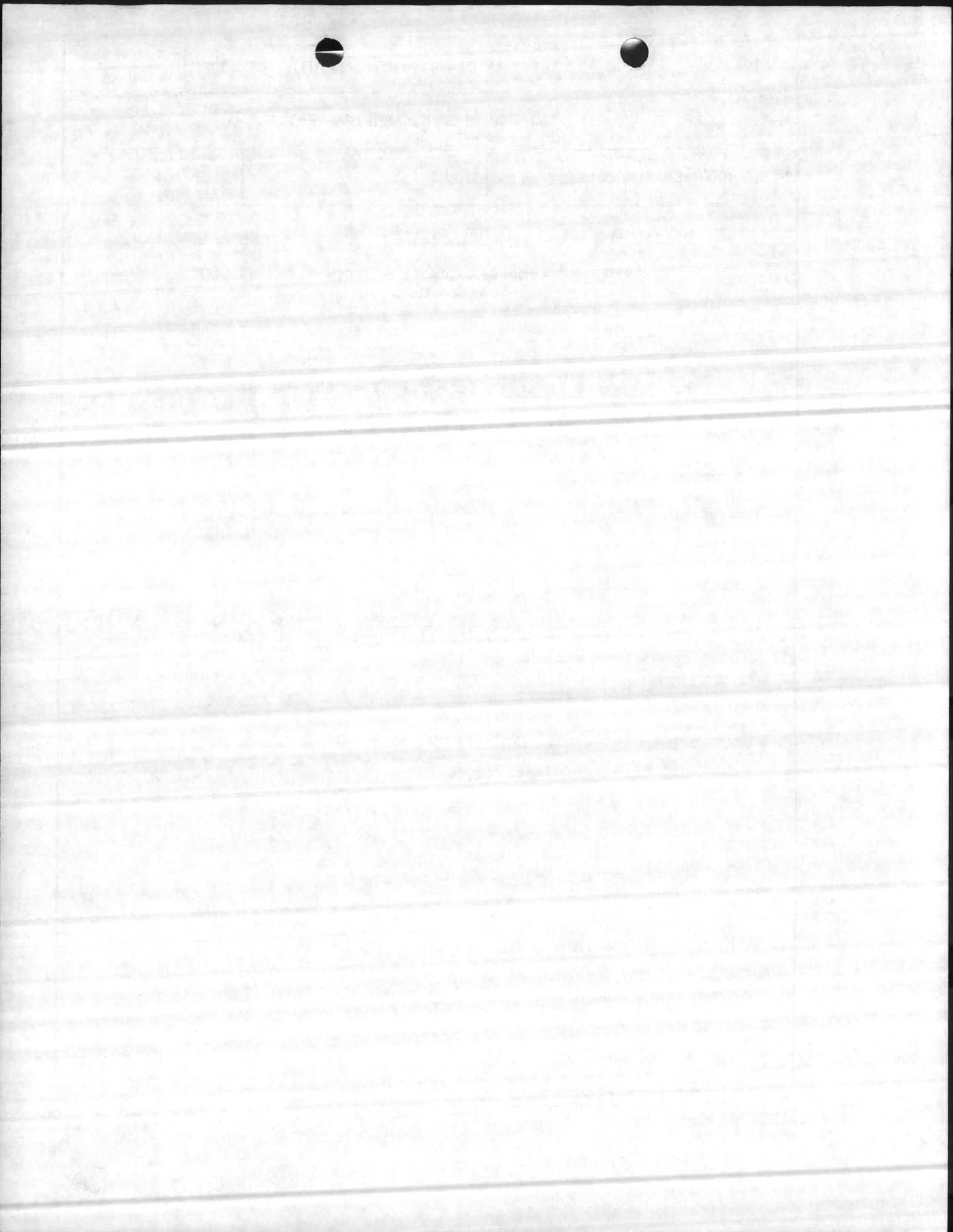
e. Existing Adequate: 0

f. Other Assets, Not in Inventory: 0

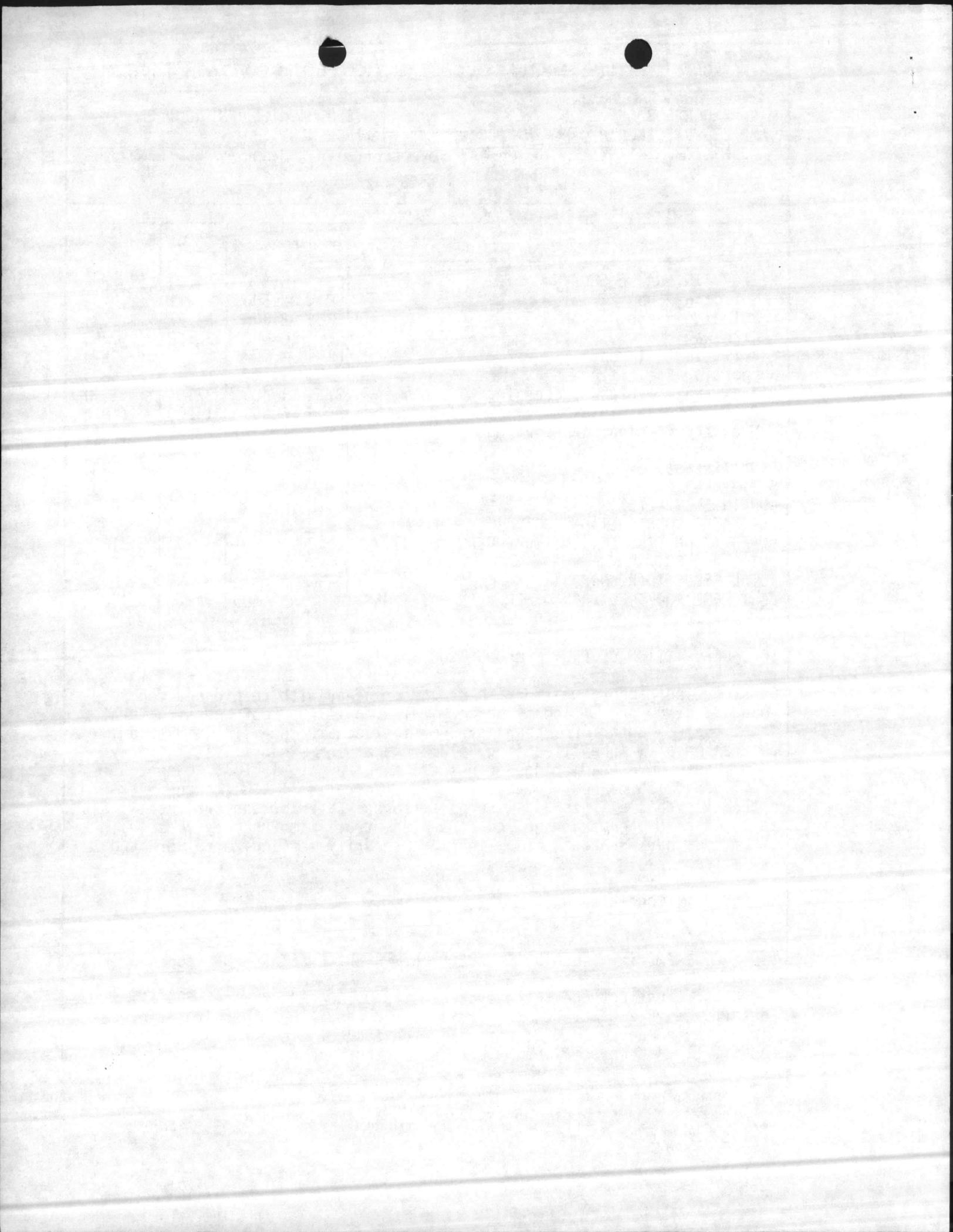
g. Funded, Not in Inventory: (FY-87) 60,540 SF



1. COMPONENT MARINE CORPS	PT 19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86																																				
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<table border="0"> <thead> <tr> <th data-bbox="438 378 609 409"><u>NAVFAC Dwg</u></th> <th data-bbox="787 378 974 409"><u>Description</u></th> <th data-bbox="1161 378 1282 409"><u>Area SF</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="479 441 592 472">1294490</td> <td data-bbox="690 441 1128 504">Combat/Automotive/Track Fld Maintenance Shop</td> <td data-bbox="1177 441 1282 472">53,000</td> </tr> <tr> <td data-bbox="479 535 592 567">1294508</td> <td data-bbox="690 535 1120 567">Vehicle Inspection Station</td> <td data-bbox="1193 535 1299 567">7, 540</td> </tr> <tr> <td></td> <td data-bbox="1031 567 1120 598">Total</td> <td data-bbox="1177 567 1347 598">60, 540 SF</td> </tr> <tr> <td colspan="3" data-bbox="438 640 1218 672">h. <u>Adequate Assets:</u> (e + f + g) = 60, 540 SF</td> </tr> <tr> <td colspan="3" data-bbox="438 703 1055 735">i. <u>Deficiency:</u> (b - h) = 388,300 SF</td> </tr> <tr> <td colspan="3" data-bbox="284 766 1023 798">14. <u>Maintenance Facilities:</u> Not applicable.</td> </tr> <tr> <td colspan="3" data-bbox="284 829 1331 861">15. <u>Morale, Welfare and Recreation Facilities:</u> Not applicable.</td> </tr> <tr> <td colspan="3" data-bbox="284 892 1006 924">16. <u>Relocation Facilities:</u> Not applicable.</td> </tr> <tr> <td colspan="3" data-bbox="284 955 958 987">17. <u>Storage Facilities:</u> Not applicable.</td> </tr> <tr> <td colspan="3" data-bbox="284 1018 1461 1123">18. <u>Hazard Identification, Assessment, and Analysis.</u> Proposed facility will be a Motor Transport School facility. The following potential hazardous conditions will be considered during the design phase:</td> </tr> <tr> <td colspan="3" data-bbox="446 1155 876 1323"> <ul style="list-style-type: none"> <li>a. Exhaust fumes.</li> <li>b. Battery acid fumes.</li> <li>c. Gasoline/diesel fumes.</li> </ul> </td> </tr> </tbody> </table>			<u>NAVFAC Dwg</u>	<u>Description</u>	<u>Area SF</u>	1294490	Combat/Automotive/Track Fld Maintenance Shop	53,000	1294508	Vehicle Inspection Station	7, 540		Total	60, 540 SF	h. <u>Adequate Assets:</u> (e + f + g) = 60, 540 SF			i. <u>Deficiency:</u> (b - h) = 388,300 SF			14. <u>Maintenance Facilities:</u> Not applicable.			15. <u>Morale, Welfare and Recreation Facilities:</u> Not applicable.			16. <u>Relocation Facilities:</u> Not applicable.			17. <u>Storage Facilities:</u> Not applicable.			18. <u>Hazard Identification, Assessment, and Analysis.</u> Proposed facility will be a Motor Transport School facility. The following potential hazardous conditions will be considered during the design phase:			<ul style="list-style-type: none"> <li>a. Exhaust fumes.</li> <li>b. Battery acid fumes.</li> <li>c. Gasoline/diesel fumes.</li> </ul>		
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1. COMPONENT MARINE CORPS		FY 19 <sup>89</sup> <b>MILITARY CONSTRUCTION PROJECT DATA</b>		2. DATE 20 Feb 86	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542			4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT 3)		
5. PROGRAM ELEMENT		6. CATEGORY CODE 214-53	7. PROJECT NUMBER P-804	8. PROJECT COST (\$000) 22,500	
<b>9. COST ESTIMATES</b>					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
FIELD MAINTENANCE SHOP		SF	210,300	84.34	17,736
Building- Shop 2		SF	47,500	62.72	(2,979)
Building- Shop 4		SF	52,800	62.72	(3,312)
Craneway		SF	110,000	82.63	(9,089)
Built-in Equipment		LS	-	-	(2,356)
Supporting Facilities		LS	-	-	2,482
Tank trail w/highway crossing		SY	4,400	32.04	(141)
Pavements, flexible		SY	6,950	14.00	( 97)
Security Fencing and Lighting		LS	-	-	(185)
Pavement, rigid		SY	35,000	29.02	(1,016)
Utilities and Site Improvements		LS	-	-	(1,043)
SUBTOTAL					20,218
CONTINGENCY - (5%)					1,011
ESTIMATED CONSTRUCTION COST					21,229
SUPERVISION, INSPECTION & OVERHEAD (5.5%)					1,167
TOTAL REQUEST					22,396
TOTAL REQUEST (ROUNDED)					22,500
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS		-	NON ADD		(0)
<b>10. DESCRIPTION OF PROPOSED CONSTRUCTION:</b>					
<p>Construct permanent two-story shops and craneway with reinforced concrete foundation, concrete floors, masonry walls, built-up roof and structural steel frame. Interior support systems include air conditioning, steam, compressed air, lube dispensing, plumbing, engine exhaust system, spray paint booth, overhead bridge cranes (75 ton, 20 ton, 15 ton, 10 ton, 5 ton and 1 ton); jib cranes (2 ton), overhead monorails (1 ton), twin post hydraulic vehicle lifts and wire partitions. Exterior support facilities includes concrete hardstand, concrete tank trail with roadway crossing, bituminous parking area, area lighting, security fencing, site work and utilities.</p> <p>(82 tons Air Conditioning)</p>					
<b>11. REQUIREMENT: 448,840 SF ADEQUATE: 0 SF SUBSTANDARD: 165,448 SF</b>					
<p>PROJECT: Construct the third increment (210,300 SF) of a 442,600 SF Consolidated Field Maintenance Facility (3rd and 4th echelon maintenance) for 2nd Maintenance Bn., 2d Force Service Support Group to maintain and repair all East Coast Fleet Marine Force ground equipment.</p>					



1. COMPONENT MARINE CORPS	FY 19 <sup>89</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
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3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542
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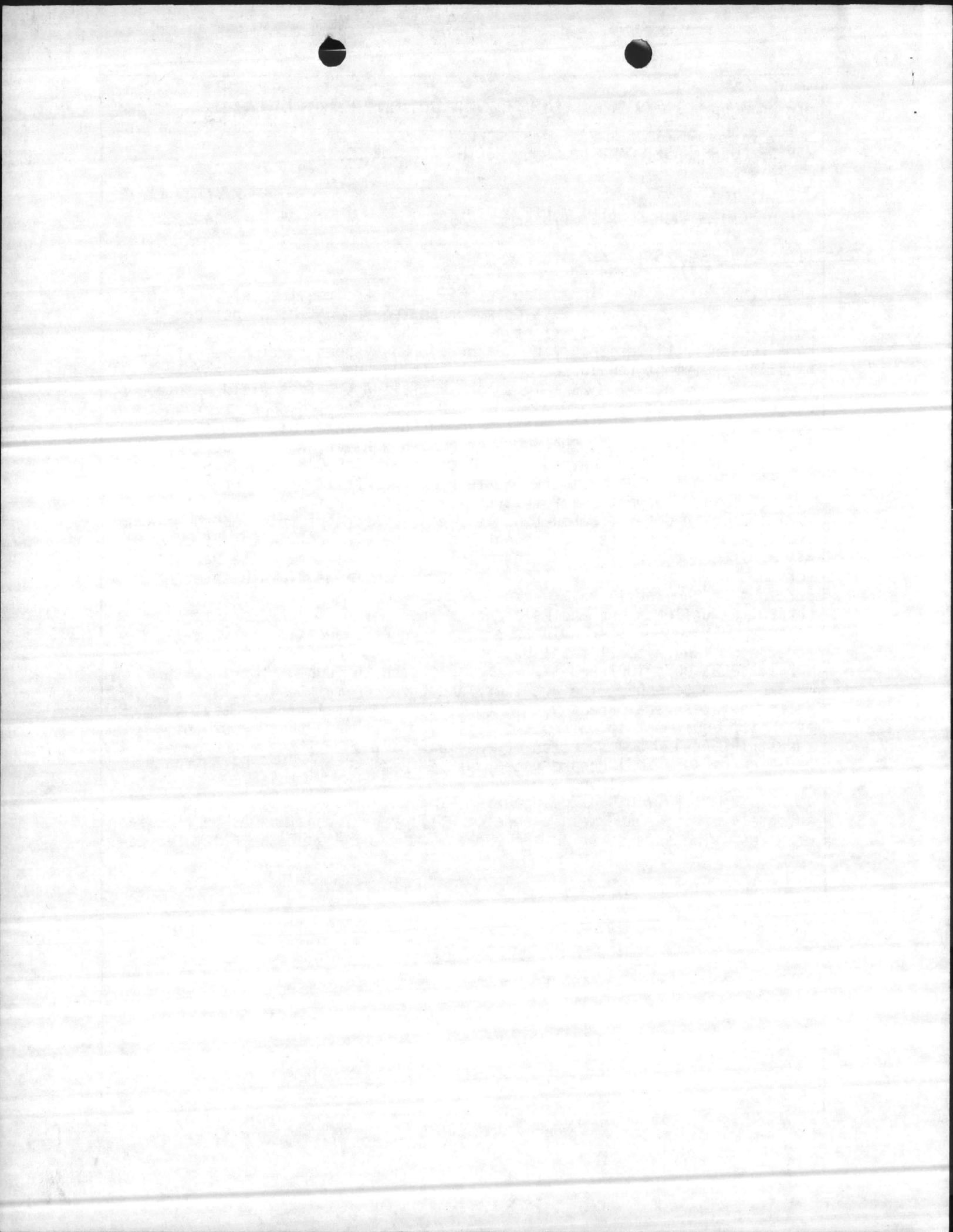
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT 3)	5. PROJECT NUMBER P-804
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11. REQUIREMENTS: (cont'd)

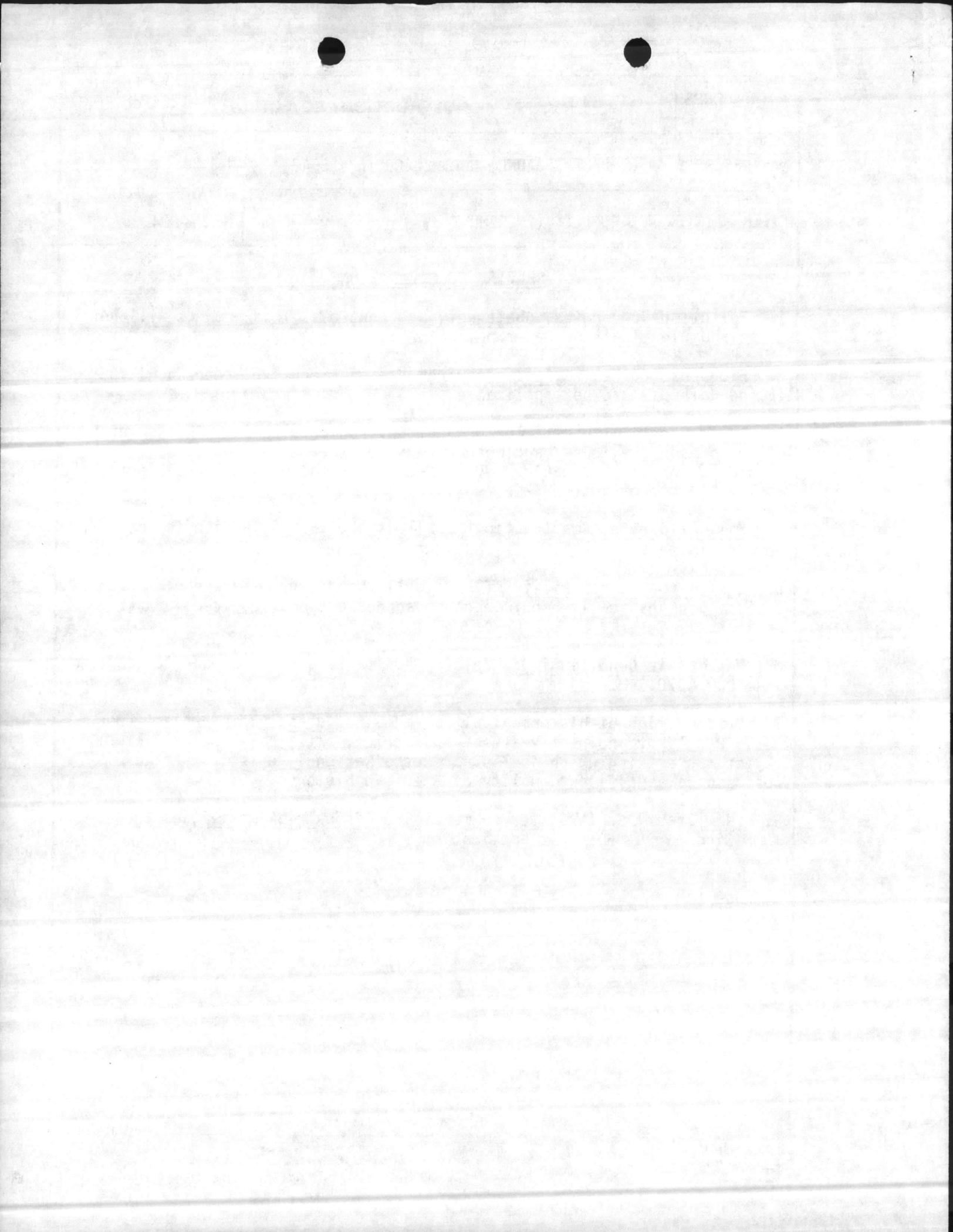
REQUIREMENT: The 2d Maintenance Battalion has the requirement to perform field maintenance for all East Coast ground equipment which includes wheel and track vehicles (tanks, light armored vehicles, trucks, etc.), ordinance repair (artillery and tank weaponry), heavy construction weight handling equipment (bulldozers, cranes, etc.), and communications/electronics equipment. The 2d Maintenance Battalion provides field maintenance support for the 2d Marine Division and 2d Force Service Support Group located at Camp Lejeune, NC and the 2d Marine Air Wing with elements located in these areas: Cherry Point, NC; New River, NC; and Beaufort, SC. The total requirement for this facility is 448,840 SF. This third increment provides adequate facilities for the Artillery and Ordnance Field Maintenance portion of this facility. One subsequent increment will be required for tracked vehicle field maintenance, planned for FY-90. Two previous increments are presently under development in the FY-87 and FY-88 MILCON programs. These increments will provide adequate facilities for the Motor Transport and Electronic/Communications Field Maintenance portions of the facility.

CURRENT SITUATION: The 2nd Maintenance Bn., performs field maintenance in only 165,448 SF of area in four converted warehouses, a WW-11 maintenance depot, and a small metal Butler building. These facilities (Bldgs. 900,901,902, 905, 1607 and 1771) are scattered throughout the Industrial Area of Camp Lejeune. The Artillery and Ordnance maintenance is being performed at several areas within the indicated facilities. Staging areas for equipment to be repaired are also scattered throughout the Industrial Area. Scatteration of and makeshift substitute work spaces cause cumbersome and uncoordinated work efforts severely hampering the mission of this Battalion.

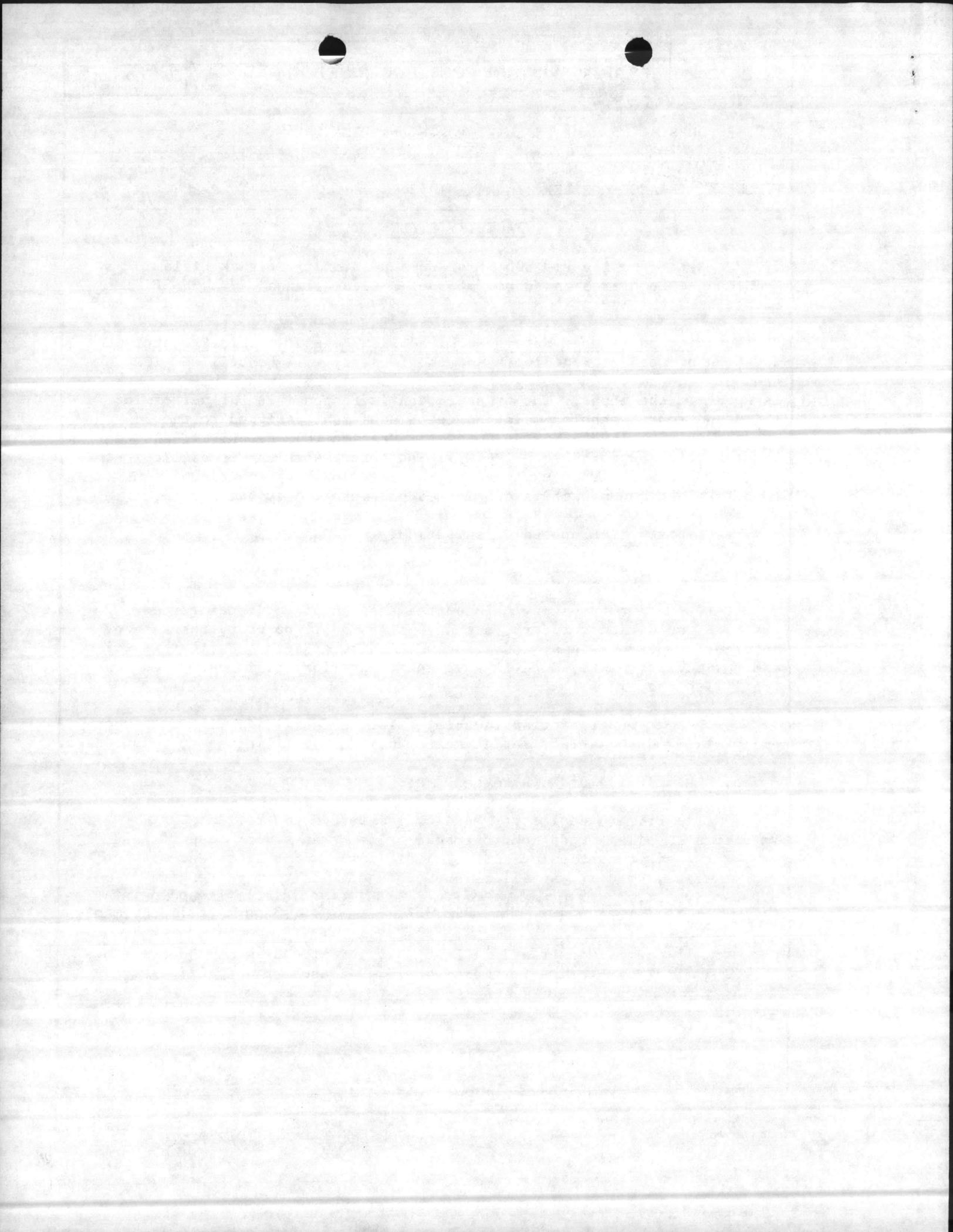
IMPACT IF NOT PROVIDED: The deadline time on equipment will remain adversely affected and maintenance capability will continue to be impaired with resulting adverse affect on the combat readiness of the Fleet Marine Force.



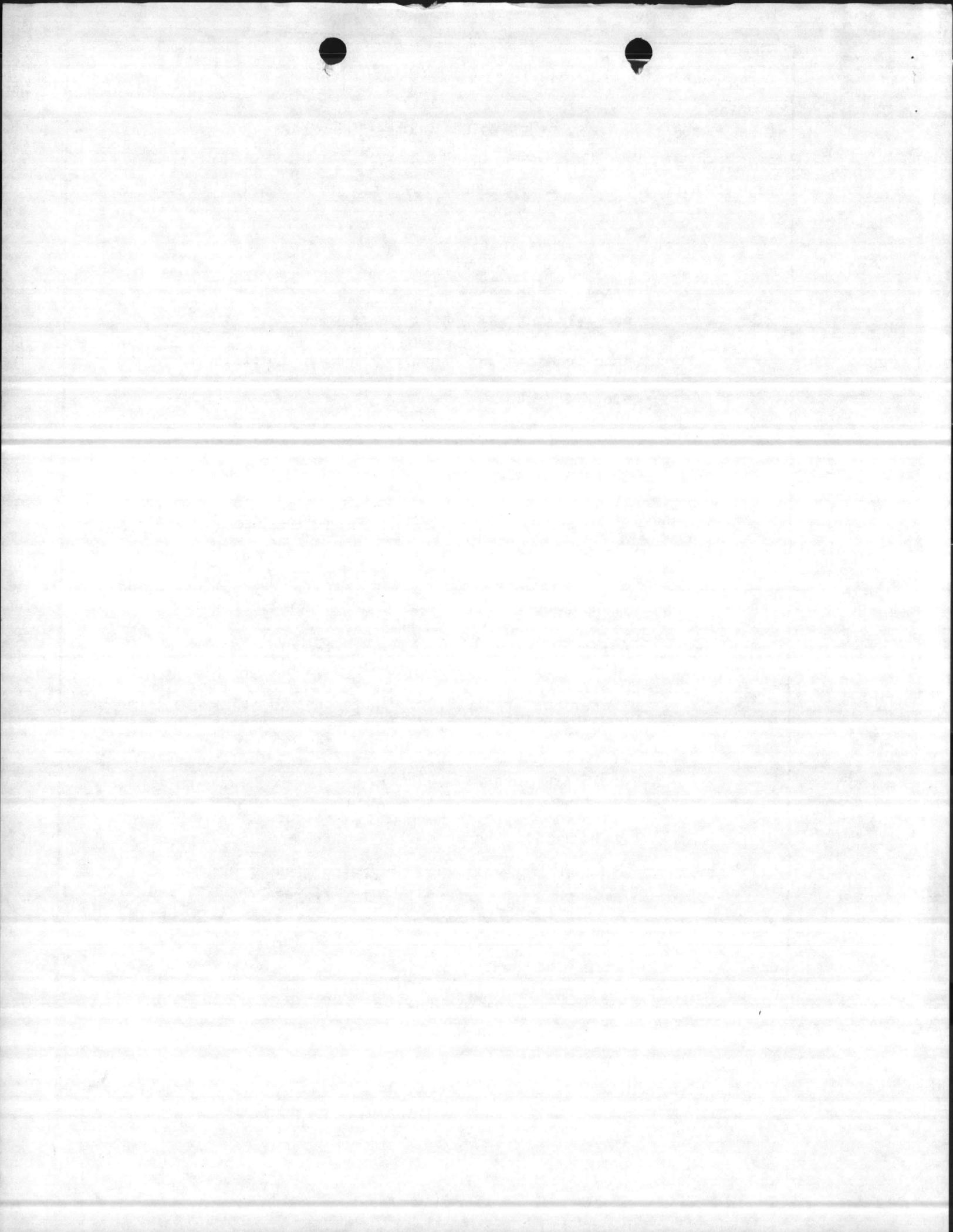
1. COMPONENT MARINE CORPS	FY 19 <sup>89</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
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<p style="text-align: center;"><u>SPECIAL CONSIDERATIONS</u></p> <ol style="list-style-type: none"> <li>1. <u>Pollution Prevention, Abatement, and Control</u>: This project will not cause additional air or water pollution.</li> <li>2. <u>Flood Hazard Evaluation</u>: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.</li> <li>3. <u>Environmental Impact</u>: The project Environmental Impact Assessment has been made, reviewed, and where required, the design concepts give consideration to eliminating adverse environmental effects consistent with applicable directives.</li> <li>4. <u>Fallout Shelter Construction</u>: Fallout shelter protection is not incorporated in this project.</li> <li>5. <u>Design for Accessibility of Physically Handicapped Personnel</u>: Provisions for physically handicapped personnel are not required in this project.</li> <li>6. <u>Use of Air Conditioning</u>: Ceiling "U" factors will be made to conform with DOD 4270.1-M.</li> <li>7. <u>Preservation of Historical Sites and Structures</u>: 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.</li> <li>8. <u>"New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76)</u>: Not applicable.</li> </ol>		



1. COMPONENT MARINE CORPS	FY 19 <del>89</del> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
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<p style="text-align: center;"><u>FACILITY STUDY</u></p> <p>1. <u>Project</u>: Provide 210,300 SF of Combat/Automotive/Track Field Maintenance Shop area as Increment 3 of a total planned 448,840 SF maintenance complex.</p> <p>2. <u>Current and Planned Future Workload with Regard to This Project</u>: The duration of need is indefinite and the facility will be utilized 100 percent of the time. An average of ten hours per day for a five-day work week is spent in the shops. The organization is responsible for performing third and fourth echelon maintenance on equipment assigned to the 2d Marine Division (FMF); Marine Corps Air Station (H), New River; and 2d Force Service Support Group (REIN). The future workload is difficult to project; however, it is expected to increase as the present equipment becomes older and new items are introduced into the system.</p> <p>3. <u>Description of Proposed Organization</u>:</p> <p>a. <u>Type of Construction</u>:</p> <p>Permanent two-story maintenance shop on pilings, reinforced concrete foundations, floors, masonry walls, built-up roof, insulation, interior support systems, and air conditioning. Rigid and flexible walks and parking pavements, site improvements, exterior utilities, paved tank trail with crossings.</p> <p>b. <u>Replacement</u>: Not applicable; existing facilities will be temporarily utilized to satisfy deficiencies until new facilities are constructed.</p> <p>c. <u>Description of Work to be Done</u>:</p> <p>(1) <u>Primary Facility</u>: Modular reinforced concrete/masonry structure on pile foundation, overhead bridge cranes with supporting structure, air conditioning and dehumidification of optical and weapons repair areas, security artillery and ordnance repair areas, engine exhaust system, central lube system, hydraulic vehicle lifts and paint spray booth. Exterior utility connections, pavements and site improvements.</p> <p>(2) <u>Energy Conservation</u>: Energy efficient equipment and building materials and orientation for maximum energy conservation will be utilized.</p>		



1. COMPONENT MARINE CORPS	FY 19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
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4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	
<p>(3) <u>Collateral Equipment:</u></p> <p>(a) <u>Built-in MCON Funded:</u></p> <ul style="list-style-type: none"> <li>*Venetian blinds and window screens</li> <li>*Air Conditioning, heating, and ventilating systems</li> <li>*Interior steam system</li> <li>*Sprinkler system</li> <li>*Plumbing system</li> <li>*Telephone, fire alarm, and intercom systems</li> <li>*Drinking water coolers</li> <li>*Air hose reel, 150 PSI H.D., w/hose control valve and hose stop (ceiling, wall, or pedestal mounted)</li> <li>*Elec extension cord reel, H.D. w/cord stop (ceiling, wall, or pedestal mounted)</li> <li>*Water hose reel, H.D., w/hose control valve and hose stop (ceiling, wall or pedestal mounted)</li> <li>*Lube hose reel, H.D., w/hose control (ceiling, wall or pedestal mounted)</li> <li>*Exhaust system, underground (automotive or construction equipment)</li> <li>*Pass window, 4' wide, w/counter &amp; "B" label roll down shutter, w/fusible link, if required</li> <li>* 1 Ton overhead monorail</li> <li>* 1 Ton overhead bridgecrane</li> <li>* 5 Ton overhead bridgecrane</li> <li>*10 ton overhead bridgecrane</li> <li>*15 Ton overhead bridgecrane</li> </ul>		



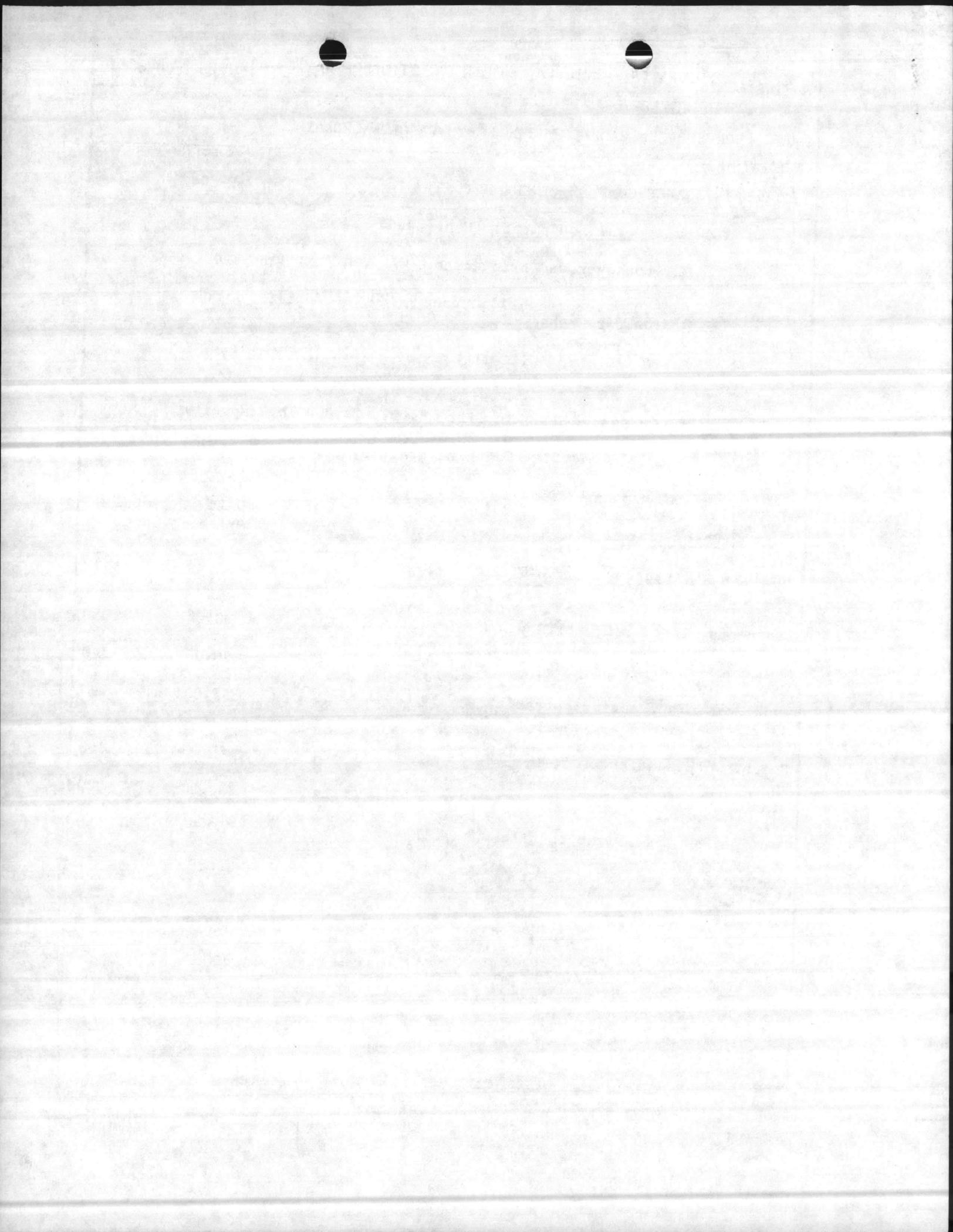
1. COMPONENT MARINE CORPS	FY 19 <del>89</del> <sup>80</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
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(3) Collateral Equipment: (Continued)

- \*20-ton overhead bridgecrane w/5 ton Auxiliary hook
- \*75-ton overhead bridgecrane w/20 ton Auxiliary hook
- \*2 Ton Jib Crane
- \*Paint spray booths
- \*Twin post hydraulic lift, H.D. 1b capacity
- \*Paint drying oven
- \*Twin post hydraulic lift, H. D., 24,000 lb. capacity
- \*6, 12 & 24 volt DC Engine Start Systems

(b) Expense Items:

<u>Description</u>	<u>Qty</u>	<u>Unit Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Bench, work, stationary, 28"D, 34"H	88	LF	77.59	\$ 6,827
Bin parts, rota, 3'D, multi-bin	3	EA	360.00	1,080
Shelving, 12"W, w/adj Stds	6	EA	90.00	540
Tank, cleaning, parts, portable 38'x22'x34'	2	EA	395.00	790
Bench, work stationary 36"D, 34"H	2	EA	75.00	150
Stand, axle	1	EA	200.00	200
Machine, sewing, light textile	1	EA	750.00	750
Table, layout, 16'x5', light textile	1	EA	200.00	200
Table, work 16'x2', light textile	7	EA	175.00	1,225
Machine, sewing, heavy canvas	3	EA	1,100.00	3,300
Table, work, 16'x7' wood top	3	EA	225.00	675
Shelving, 24"W	1,324	LF	10.00	13,240



1. COMPONENT MARINE CORPS	FY 19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 20 Feb 86
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)		5. PROJECT NUMBER P-804

(b) Expense Items: (Continued)

<u>Description</u>	<u>Qty</u>	<u>Unit Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Machine, OM, cleaning, 2'x5'	1	EA	300.00	300
Tanks, OM equip rinse, 2'x2'	3	EA	35.00	105
Bench, OM repair, 3'x4'	24	EA	60.00	1,440
Bench, electronics repair, 36"x144"x34"H	47	EA	90.00	4,230
Cleaner, ultrasonic (electronic components)	2	EA	1,000.00	2,200
Racks, store 48"Dx48"H	1	EA	125.00	125
Racks, store, 36"Dx24"H	3	EA	100.00	<u>300</u>
TOTAL EXPENSE ITEMS				37,677

(c) INVESTMENT ITEMS - None.

(d) APA EQUIPMENT - None.

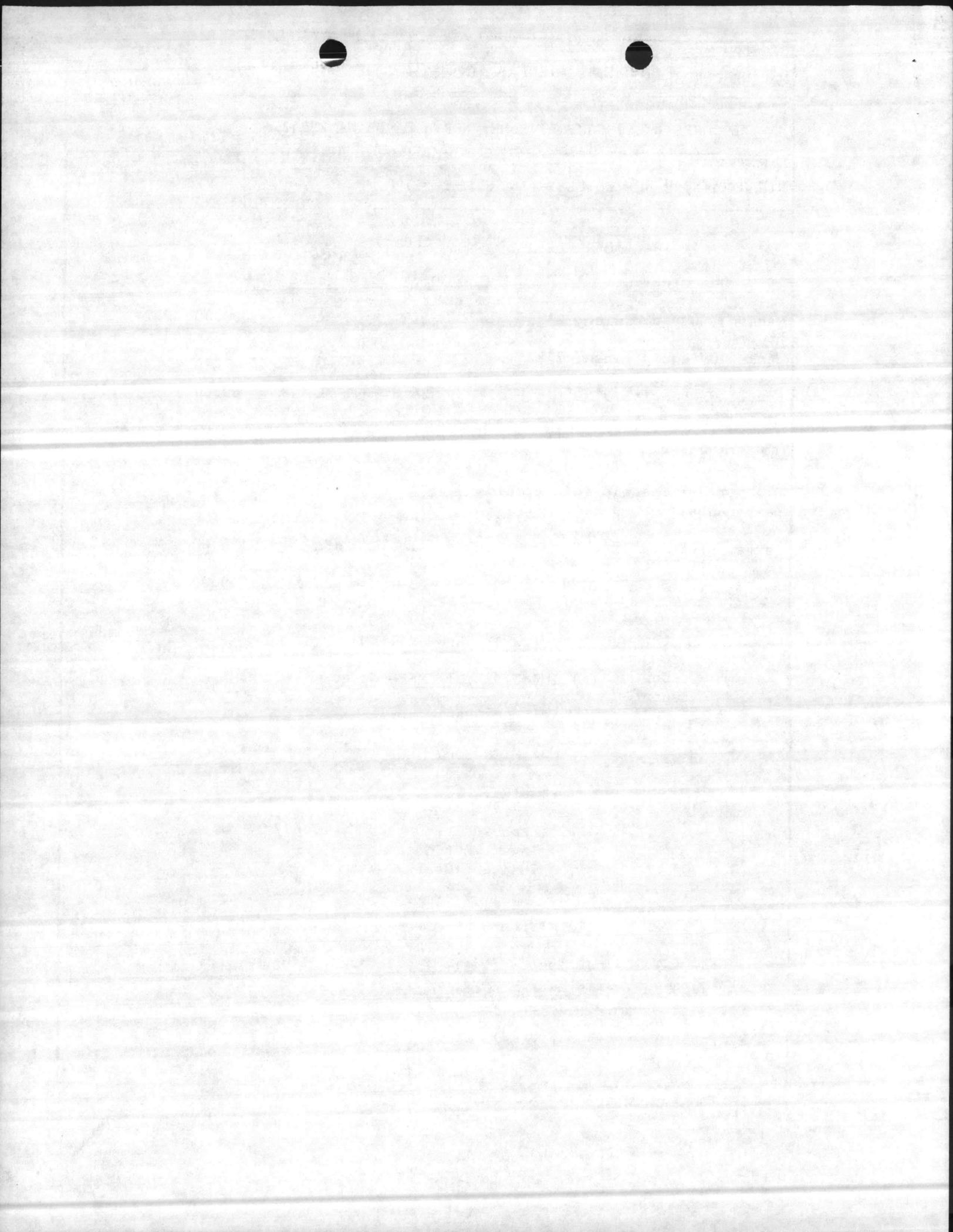
(e) TRAINING EQUIPMENT - None.

(f) SUMMARY:

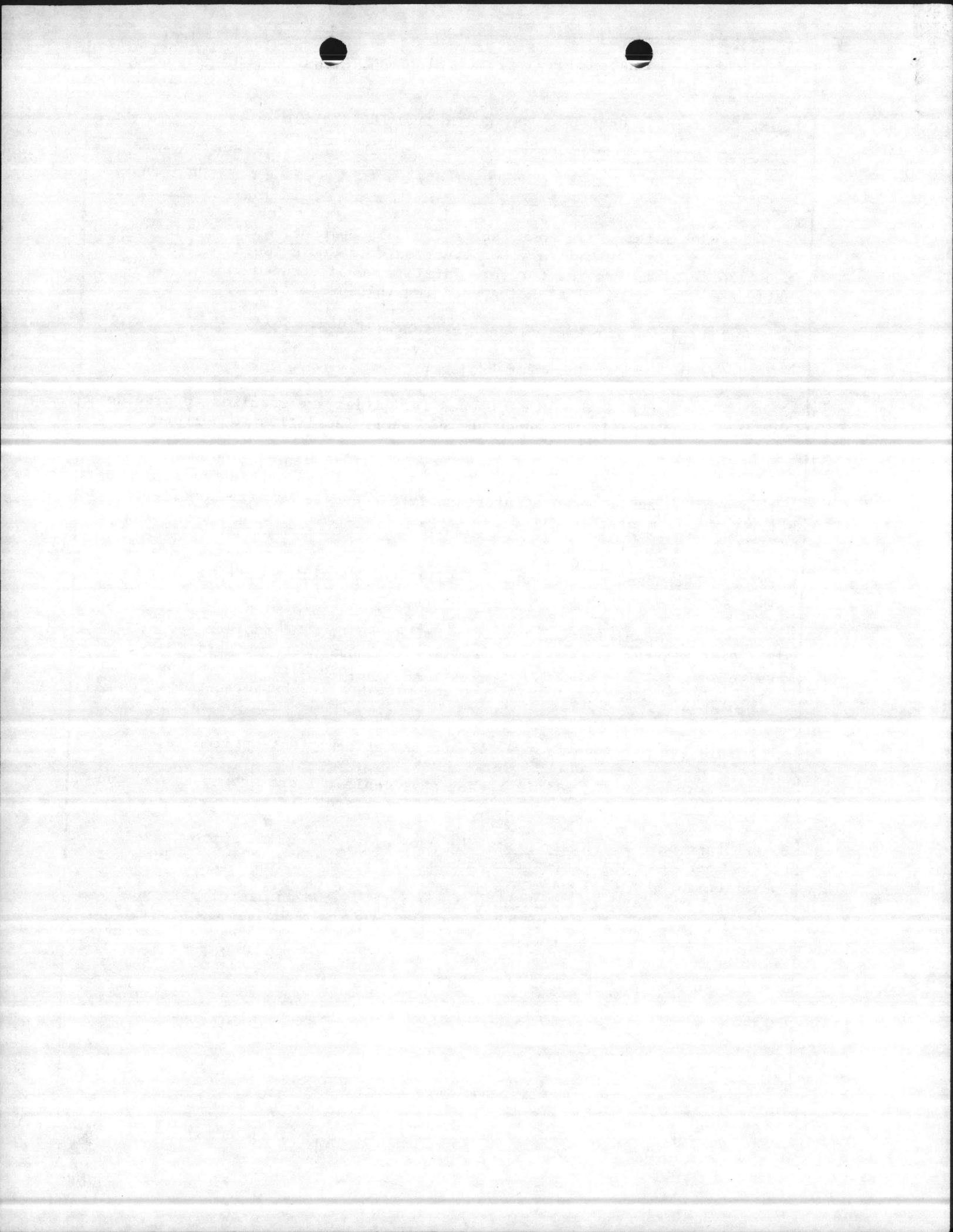
Expense Items	37,677
Investment Cost	-
Training Cost	-

Total Cost	37,677
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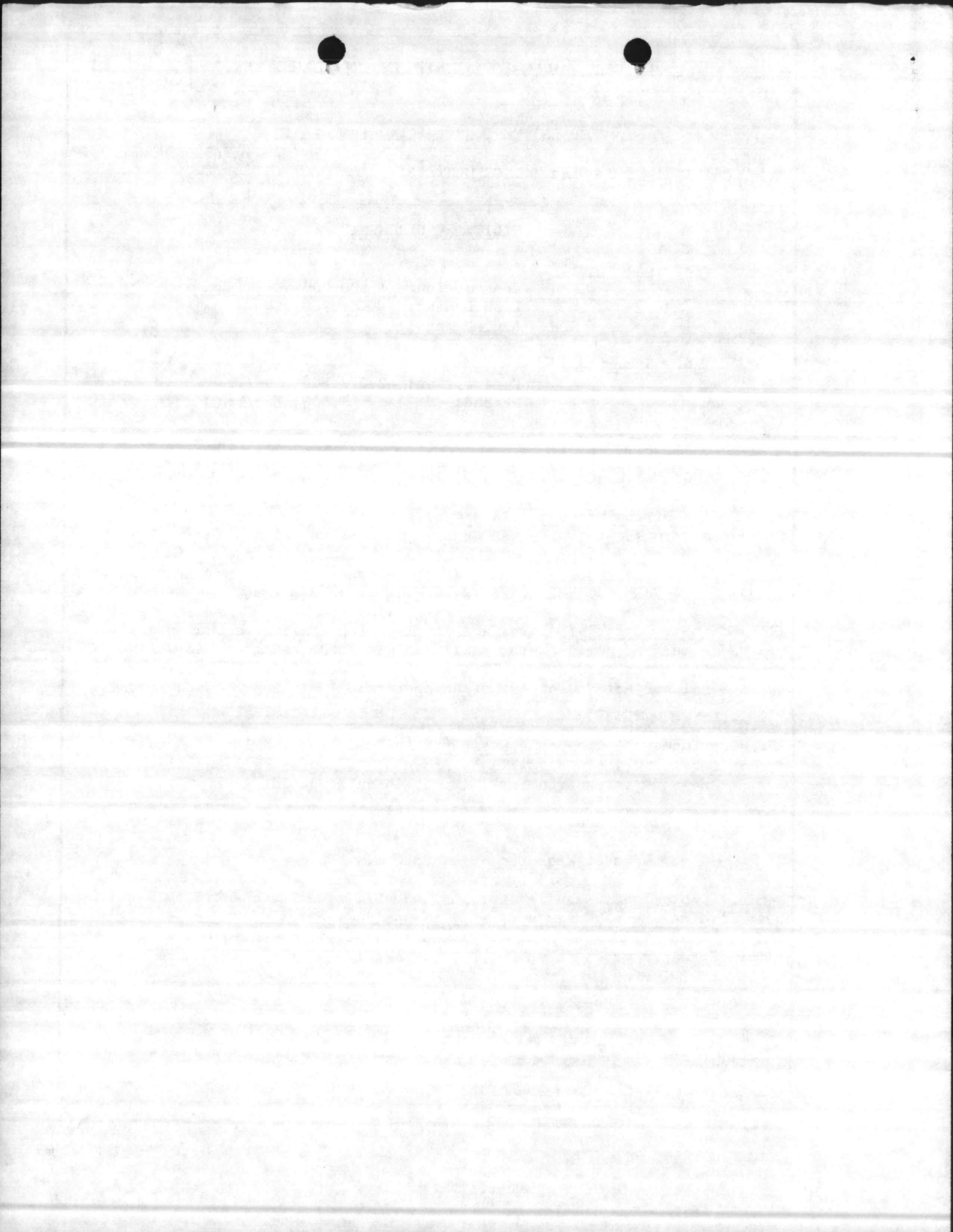
(4) Supporting Facilities: Special piling, foundation, collateral equipment, site improvement, pollution abatement, utility connections, etc. No demolition will be accomplished on this project.



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<p>4. <u>Cost Estimate</u>: Area cost factor for Camp Lejeune, NC is 0.86. Cost data derived from the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG) to provide for this facility, escalated to FY-89. A contingency factor of 5% is being used for this project.</p> <p>5. <u>Justification for Project and for Scope of Project</u>:</p> <p style="padding-left: 40px;">a. <u>Justification for Project</u>:</p> <p style="padding-left: 80px;">(1) <u>Project</u>: Proposed facilities are required to provide maintenance personnel with adequate and secure facilities to perform artillery and ordnance maintenance.</p> <p style="padding-left: 80px;">(2) <u>Current Situation</u>: Personnel are working in substandard and makeshift facilities that are totally inadequate in size, configuration, utility requirements, and site location.</p> <p style="padding-left: 80px;">(3) <u>Impact If Not Provided</u>: Personnel will continue to work in substandard and makeshift facilities, resulting in loss of work-time and wasted energy.</p> <p style="padding-left: 40px;">b. <u>Justification for Scope of Project</u>: The project scope, 210,300 SF, is the minimum size facility that can meet the deficiency requirements for the Combat/Automotive/Track Field Maintenance Shop needs of the Maintenance Battalion of the 2d Force Service Support Group. See paragraph 13.</p> <p>6. <u>Equipment Provided from Other Appropriations</u>: Not applicable.</p> <p>7. <u>Common Support Facilities</u>: Not applicable. There are no common support facilities available in the French Creek Area.</p> <p>8. <u>Effect on Other Resources</u>: The project will require approximately \$10,000 per year increased O&amp;MMC funds for increased utility services and operations. No additional personnel will be required to operate this facility. The project will enhance and improve the morale of personnel presently working in widely dispersed facilities. 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.</p>		



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<p style="text-align: center;"><u>UTILITY REQUIREMENTS</u></p> <p>a. <u>Electricity:</u>  Consumption: 1,500,000 KWHR/YR  Peak Demand: 900 KW  Avg. Demand: - KW</p> <p>b. <u>Steam:</u>  Consumption: 2,372,500 Lbs/Yr  Demand: 1,500 Lbs/Yr</p> <p>c. <u>Coal:</u> - Tons/Yr</p> <p>d. Adequate utilities will be provided by P-240, FY-85.</p> <p>9. <u>Siting of the Project:</u> This facility will be located in the French Creek Area, in keeping with the Camp Lejeune Master Plan. See enclosure (1).</p> <p>10. <u>Other Graphic Presentations, including Photographs:</u> NAVFAC Drawings 1294489, 1294491, and 1294493 submitted as Enclosure (2).</p> <p>11. <u>Economic Analysis:</u> This facility is being constructed on an undeveloped site. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of an operational mission located in this area.</p> <p>12. <u>Environmental Impact Assessment:</u> An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.</p> <p>13. <u>Quantitative Data:</u></p> <p>a. <u>Unit of Measure:</u> Square feet.</p> <p>b. <u>Total Requirement:</u> 448,840 SF. The Basic Facility Requirement for the French Creek area (EA) is 448,840 SF. NAVFAC P-80 states that the requirement for this category code (214-53) is determined from definitive drawings given in NAVFAC P-272, Part IV.</p>		



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<u>NAVFAC DWG #</u>	<u>DESCRIPTION</u>	<u>AREA SF</u>
1294489	Combat/Automotive/Track Fld Maint Shop	220,000
1294490	"	53,000
1294491	"	47,500
1294492	"	48,000
1294493	"	52,800
1294508	Vehicle Inspection Station	7,540
1294444	Operational Readiness Float and Utilities Platoon	<u>20,000</u>
Total		448,840

c. Existing Substandard: 165,448 SF

<u>BUILDING NO.</u>	<u>AREA SF</u>	
900*	3,600	
901*	21,224	
902*	50,064	
905*	13,640	
1601*	62,000	
1771	<u>14,920</u>	
Total		165,448 SF

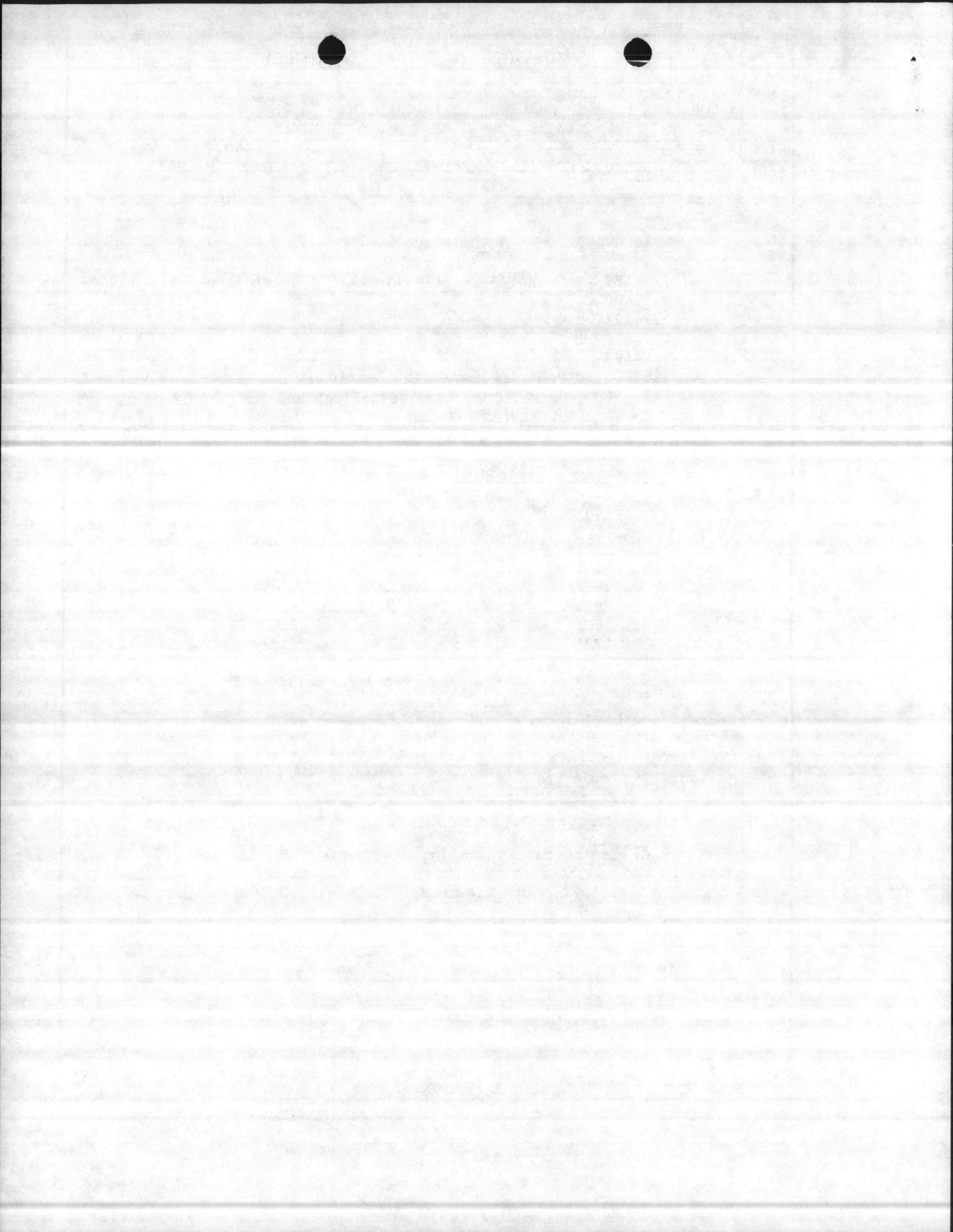
\*multi-use type buildings.

d. Existing Inadequate: 0

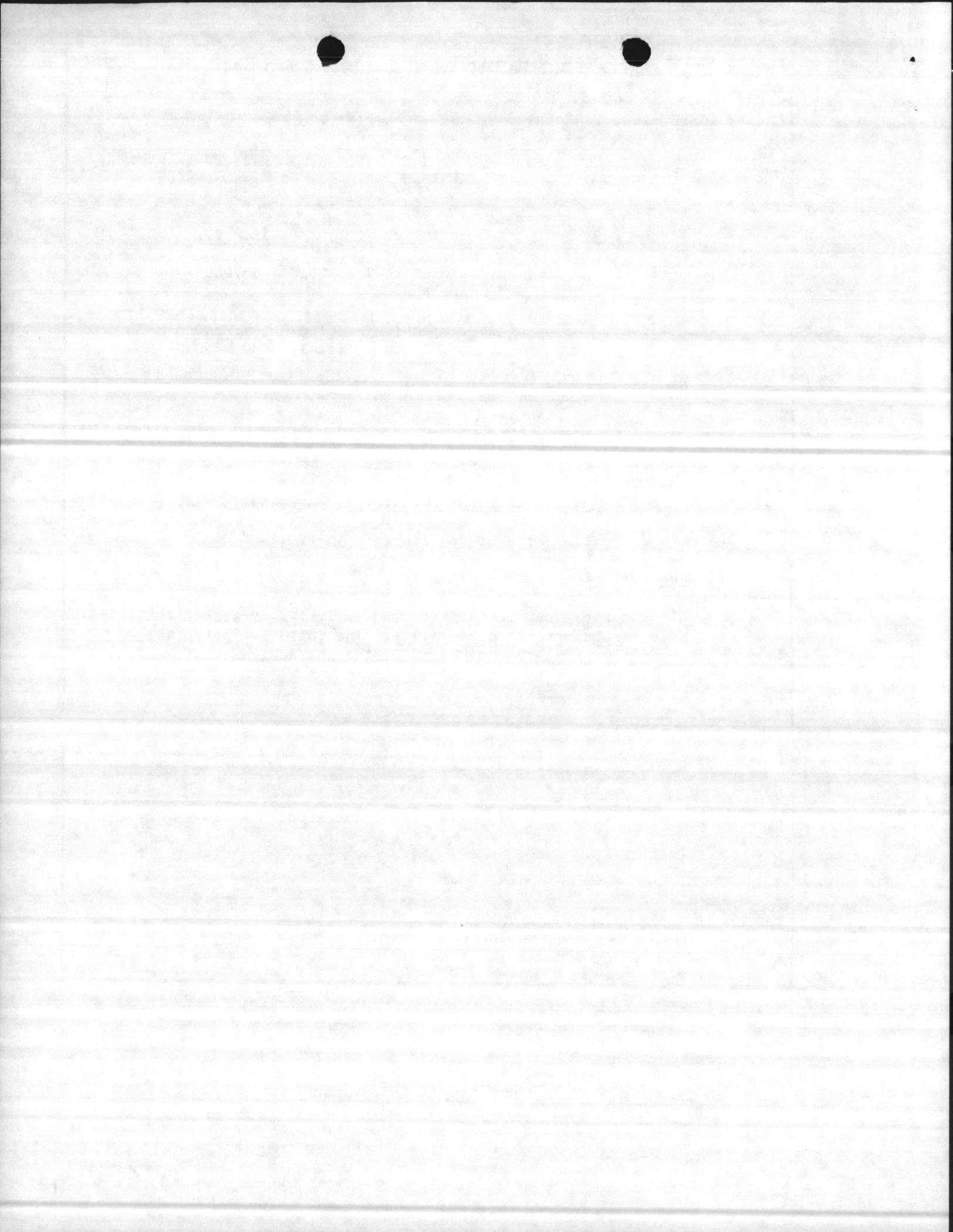
e. Existing Adequate: 0

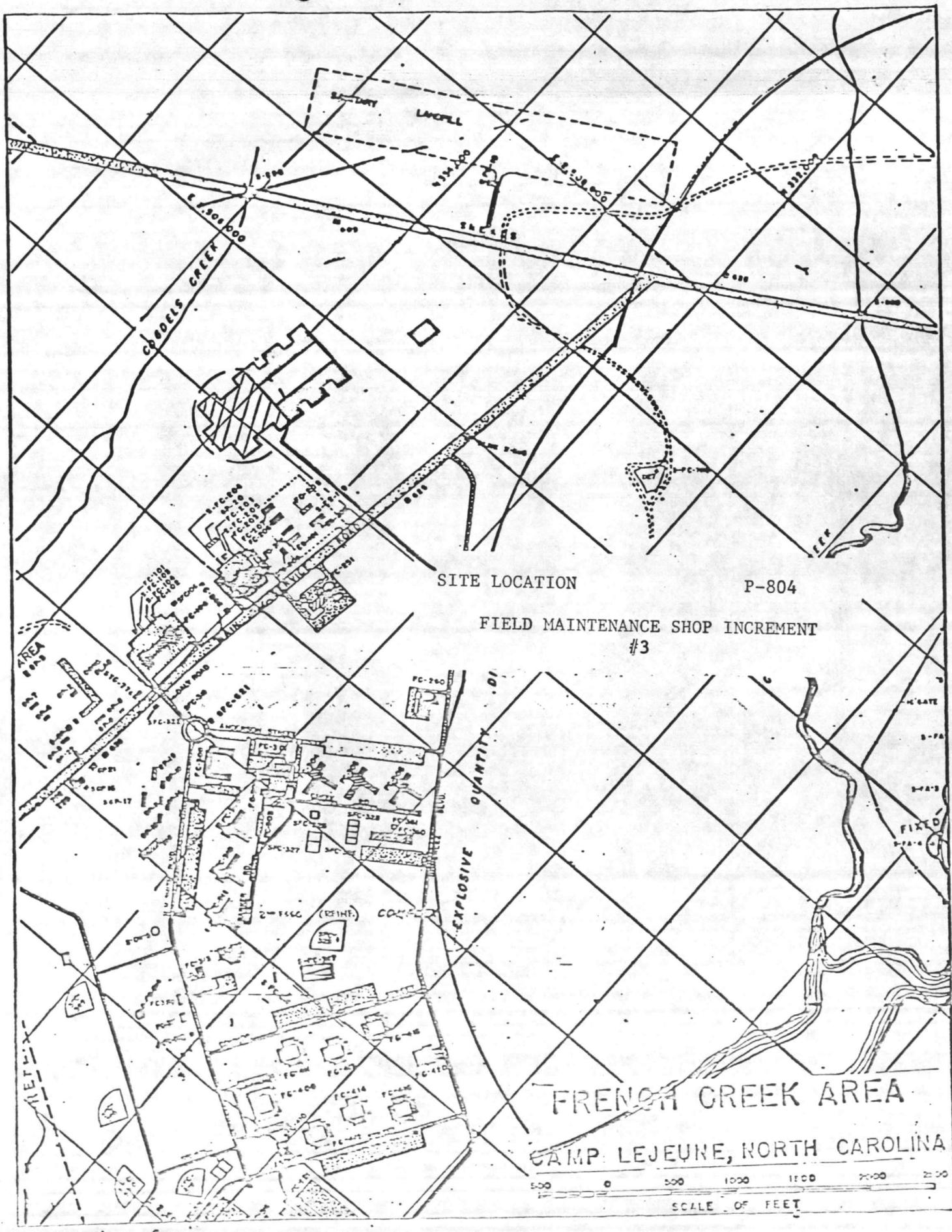
f. Other Assets, Not in Inventory: 0

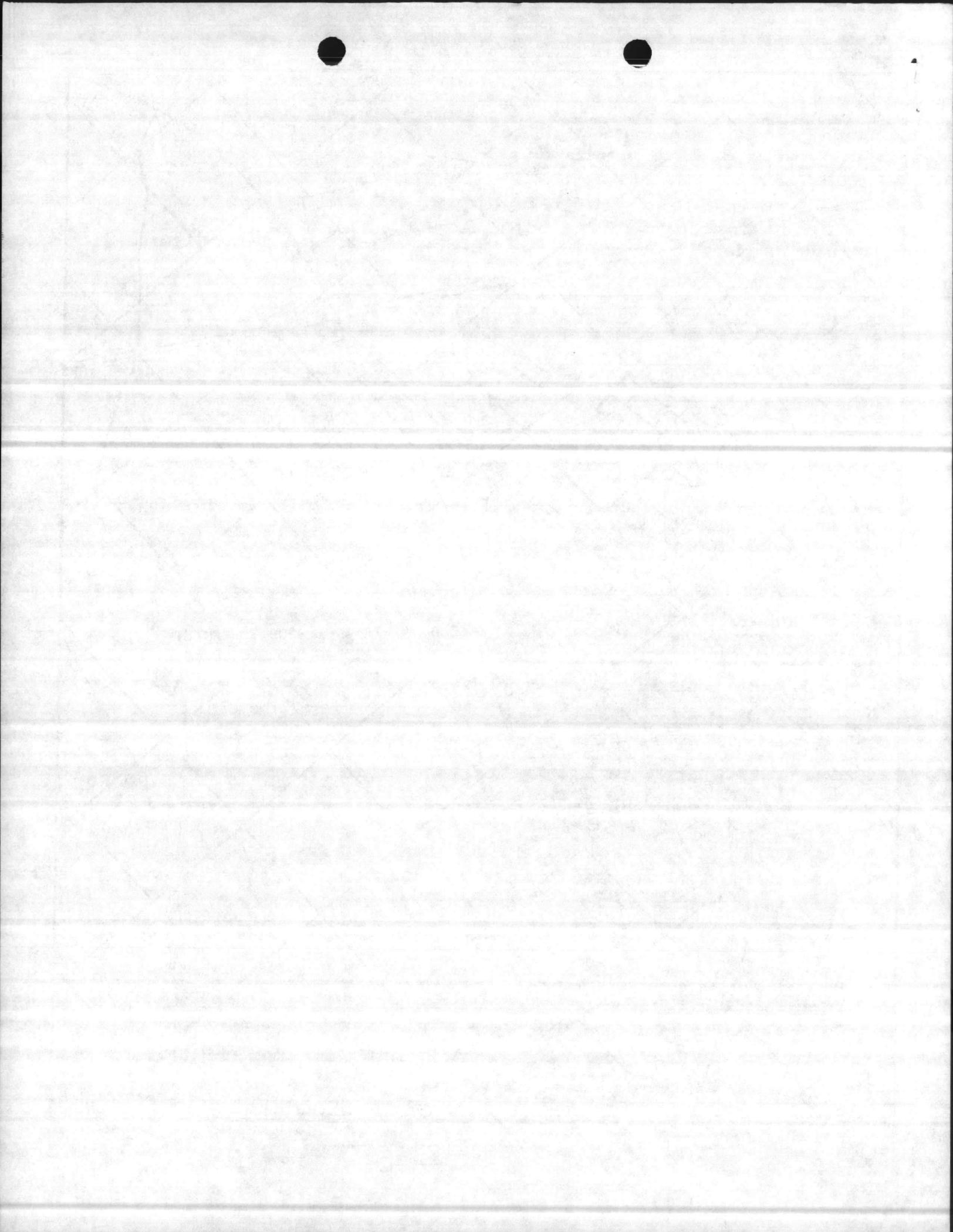
g. Funded, Not in Inventory: (FY-87) 60,540 SF



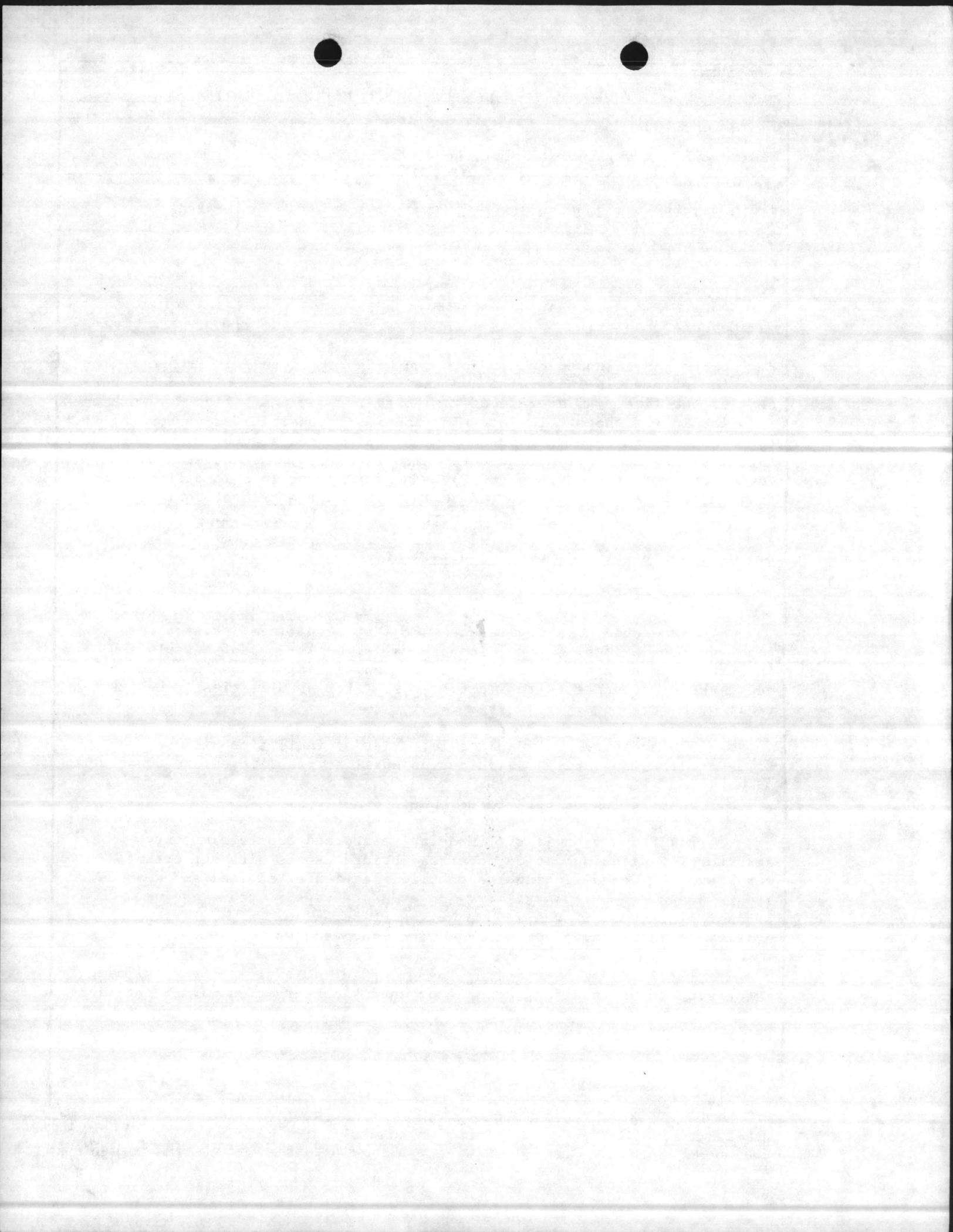
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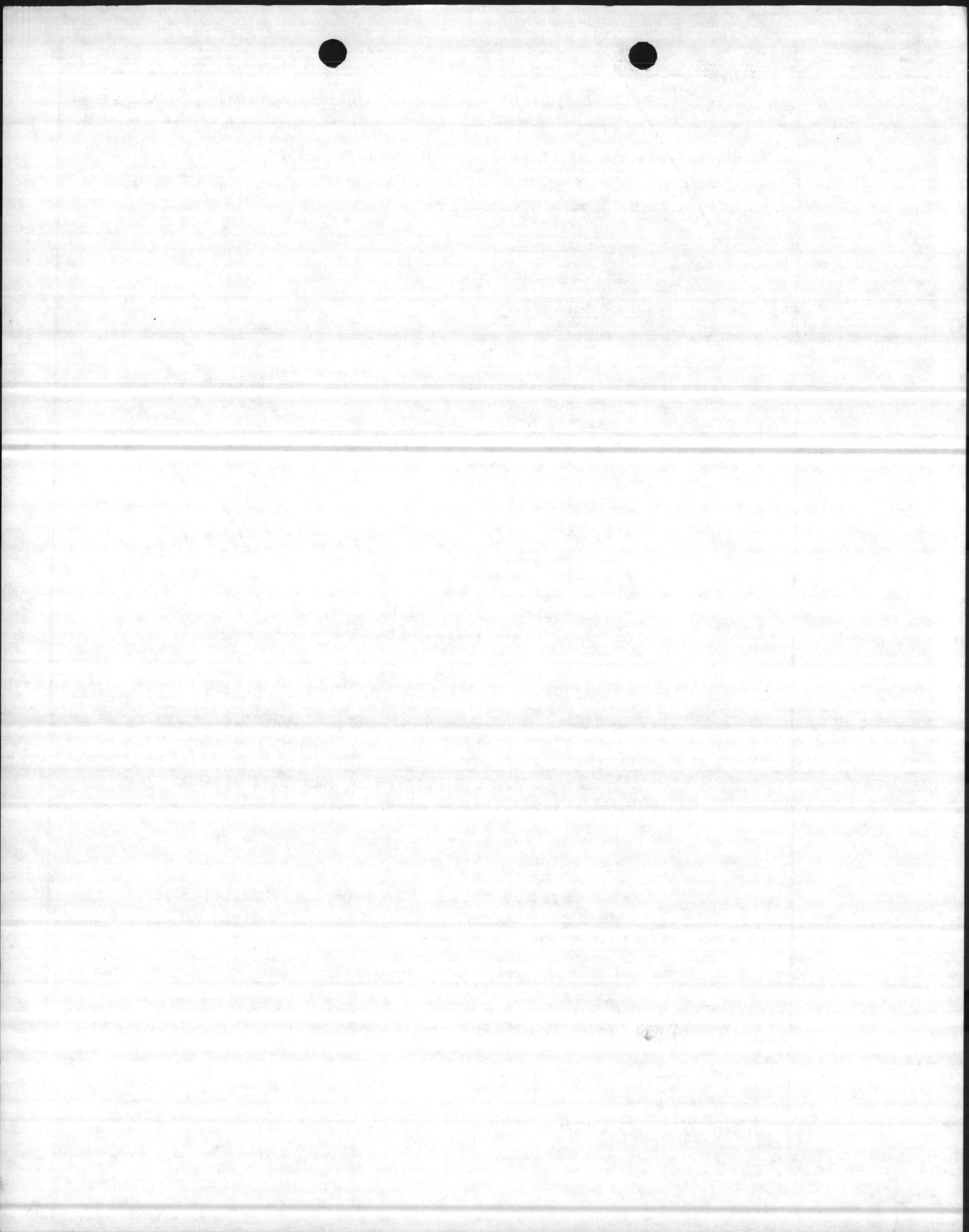
1. COMPONENT MARINE CORPS	FY 19 <u>89</u> MILITARY CONSTRUCTION PROJECT DATA	2. DATE <del>1 July 1985</del>
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<p style="text-align: center;"><u>FACILITY STUDY</u></p> <p>1. <u>Project</u>: Provide 210,300 SF of Combat/Automotive/Track Field Maintenance Shop area as Increment 3 of a total planned <del>442,600</del> SF maintenance complex. <span style="float: right;">442,840</span></p> <p>2. <u>Current and Planned Future Workload with Regard to This Project</u>: The duration of need is indefinite and the facility will be utilized 100 per cent of the time. An average of ten hours per day for a five-day work week is spent in the shops. The organization is responsible for performing third and fourth echelon maintenance on equipment assigned to the 2d Marine Division (FMF); Marine Corps Air Station (H), New River; and 2d Force Service Support Group (REIN). The future workload is difficult to project; however, it is expected to increase as the present equipment becomes older and new items are introduced into the system.</p> <p>3. <u>Description of Proposed Organization</u>:</p> <p>a. <u>Type of Construction</u>:</p> <p>Permanent two-story maintenance shop on pilings, reinforced concrete foundations, floors, masonry walls, built-up roof, insulation, interior support systems, and air conditioning. Rigid and flexible walks and parking pavements, site improvements, exterior utilities, paved tank trail with crossings.</p> <p>b. <u>Replacement</u>: Not applicable; existing facilities will be temporarily utilized to satisfy deficiencies until new facilities are constructed.</p> <p>c. <u>Description of Work to be Done</u>:</p> <p>(1) <u>Primary Facility</u>: Modular reinforced concrete/masonry structure on pile foundation, overhead bridge cranes with supporting structure, air conditioning and dehumidification of optical and weapons repair areas, security artillery and ordnance repair areas, engine exhaust system, <del>6V, 12V &amp; 24V DC Engine start up system.</del> <i>CENTRAL LUBE SYSTEM, HYDRAULIC VEHICLE LIFTS AND SPRAY BOOTH.</i> Exterior utility connections, pavements and site improvements. <span style="float: right;"><i>PAINT SPRAY BOOTH.</i></span></p> <p>(2) <u>Energy Conservation</u>: Energy efficient equipment and building materials and orientation for maximum energy conservation will be utilized.</p>		



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<p>(3) <u>Collateral Equipment:</u> (Continued)</p> <p>✓*20-ton overhead bridgecrane w/ 5 TON AUX. HOOK</p> <p>✓*75-ton overhead bridgecrane w/ 20 TON AUX. HOOK</p> <p>(11) * 2-TON JIB CRANE *Paint spray booths</p> <p>(2) *Paint drying oven *TWIN POST HYDRAULIC LIFT, H.D. 11,000 lb CAPACITY 24,000 lb</p> <p>(24) *Twin post hydraulic lift, H. D., <del>40,000</del> lb. capacity</p> <p>*6, 12 &amp; 24 volt DC Engine Start Systems</p> <p>(b) <u>Expense Items:</u></p> <table border="1"> <thead> <tr> <th>Description</th> <th>Qty</th> <th>Unit Issue</th> <th>Unit Price</th> <th>Total Cost</th> </tr> </thead> <tbody> <tr> <td>Bench, work, stationary, 28"D, 34"H</td> <td>88</td> <td>LF</td> <td>77.59</td> <td>\$ 6,827</td> </tr> <tr> <td>Bin parts, rota, 3'D, multi-bin</td> <td>3</td> <td>EA</td> <td>360.00</td> <td>1,080</td> </tr> <tr> <td>Shelving, 12"W, w/adj Stds</td> <td>6</td> <td>EA</td> <td>90.00</td> <td>540</td> </tr> <tr> <td>Tank, cleaning, parts, portable 38'x22'x34'</td> <td>2</td> <td>EA</td> <td>395.00</td> <td>790</td> </tr> <tr> <td>Bench, work stationary 36"D, 34"H</td> <td>2</td> <td>EA</td> <td>75.00</td> <td>150</td> </tr> <tr> <td>Stand, axle</td> <td>1</td> <td>EA</td> <td>200.00</td> <td>200</td> </tr> <tr> <td>Machine, sewing, light textile</td> <td>1</td> <td>EA</td> <td>750.00</td> <td>750</td> </tr> <tr> <td>Table, layout, 16'x5', light textile</td> <td>1</td> <td>EA</td> <td>200.00</td> <td>200</td> </tr> <tr> <td>Table, work 16'x2', light textile</td> <td>7</td> <td>EA</td> <td>175.00</td> <td>1,225</td> </tr> <tr> <td>Machine, sewing, heavy canvas</td> <td>3</td> <td>EA</td> <td>1,100.00</td> <td>3,300</td> </tr> <tr> <td>Table, work, 16'x7' wood top</td> <td>3</td> <td>EA</td> <td>225.00</td> <td>675</td> </tr> <tr> <td>Shelving, 24"W</td> <td>1,324</td> <td>LF</td> <td>10.00</td> <td>13,240</td> </tr> </tbody> </table>						Description	Qty	Unit Issue	Unit Price	Total Cost	Bench, work, stationary, 28"D, 34"H	88	LF	77.59	\$ 6,827	Bin parts, rota, 3'D, multi-bin	3	EA	360.00	1,080	Shelving, 12"W, w/adj Stds	6	EA	90.00	540	Tank, cleaning, parts, portable 38'x22'x34'	2	EA	395.00	790	Bench, work stationary 36"D, 34"H	2	EA	75.00	150	Stand, axle	1	EA	200.00	200	Machine, sewing, light textile	1	EA	750.00	750	Table, layout, 16'x5', light textile	1	EA	200.00	200	Table, work 16'x2', light textile	7	EA	175.00	1,225	Machine, sewing, heavy canvas	3	EA	1,100.00	3,300	Table, work, 16'x7' wood top	3	EA	225.00	675	Shelving, 24"W	1,324	LF	10.00	13,240
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<p>(3) <u>Collateral Equipment:</u></p> <p>(a) <u>Built-in MCON Funded:</u></p> <ul style="list-style-type: none"> <li>*Venetian blinds and window screens</li> <li>*Air Conditioning, heating, and ventilating systems</li> <li>*Interior steam system</li> <li>*Sprinkler system</li> <li>*Plumbing system</li> <li>*Telephone, fire alarm, and intercom systems</li> <li>*Drinking water coolers</li> <li>*Air hose reel, 150 PSI H.D., w/hose control valve and hose stop (ceiling, wall, or pedestal mounted)</li> <li>*Elec extension cord reel, H.D. w/cord stop (ceiling, wall, or pedestal mounted)</li> <li>*Water hose reel, H.D., w/hose control valve and hose stop (ceiling, wall or pedestal mounted)</li> <li>*Lube hose reel, H.D., w/hose control (ceiling, wall or pedestal mounted)</li> <li>*Exhaust system, underground (automotive or construction equipment)</li> <li>*Pass window, 4' wide, w/counter &amp; "B" label roll down shutter, w/fusible link, if required</li> <li>(4) * <del>1-TON OVERHEAD MONORAIL</del></li> <li>*1-ton overhead bridgecrane</li> <li>*5-ton overhead bridgecrane</li> <li>(A) *10-ton overhead bridgecrane</li> <li>✓ *15-ton overhead bridgecrane</li> </ul>		



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(b) Expense Items: (Continued)

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(c) INVESTMENT ITEMS - None.

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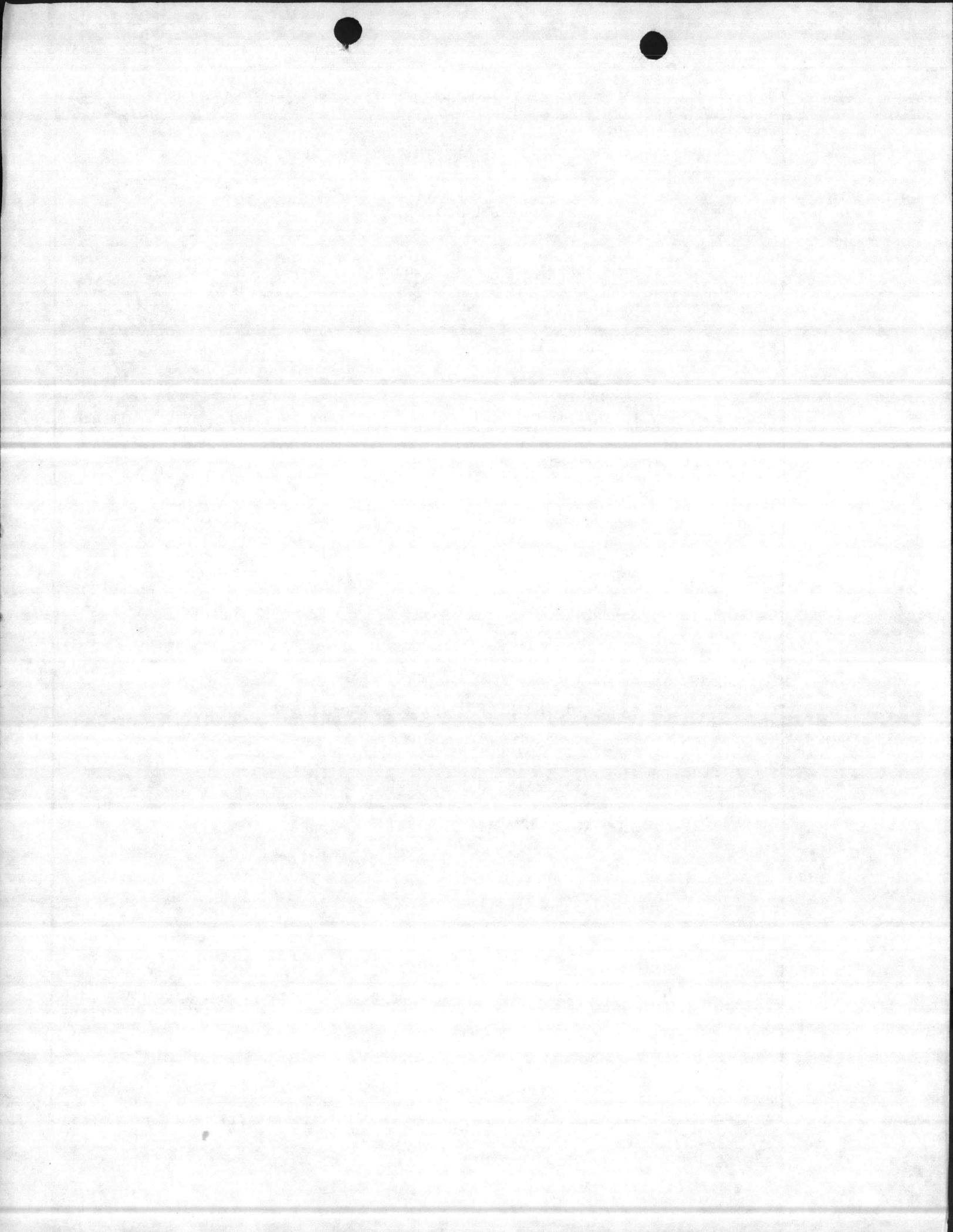
(e) TRAINING EQUIPMENT - None.

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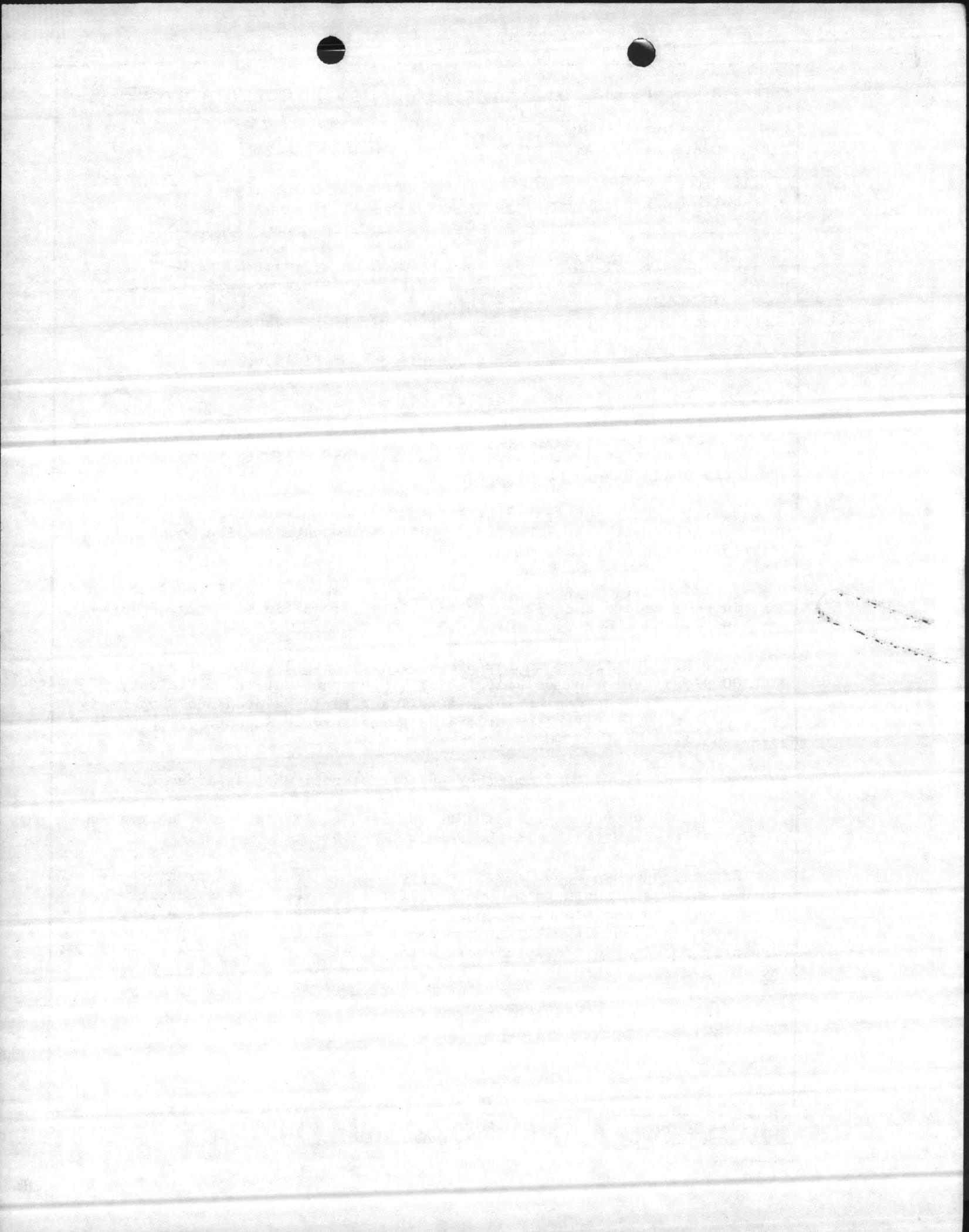
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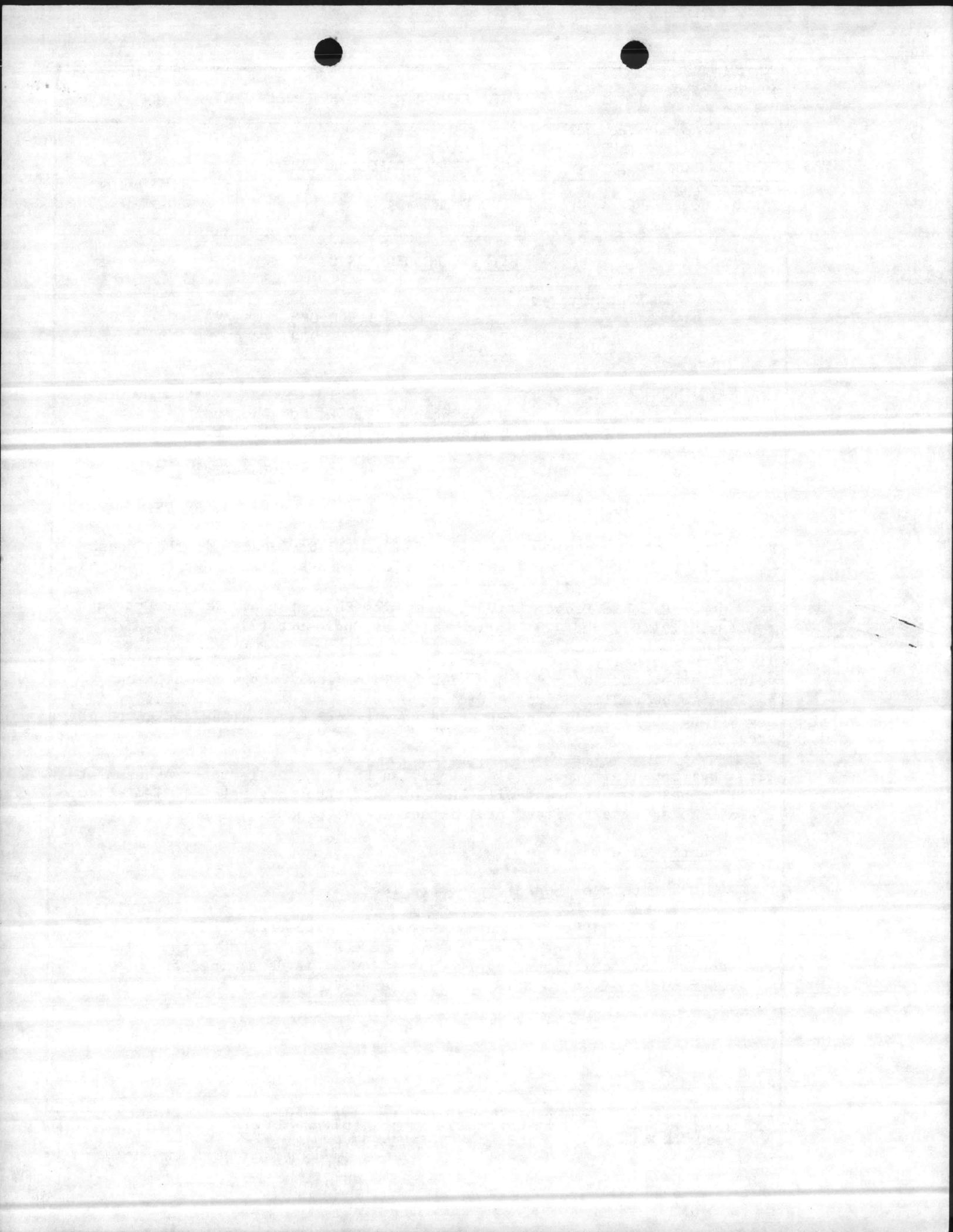


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<p>4. <u>Cost Estimate</u>: Area cost factor for Camp Lejeune, NC is <sup>0.86</sup><del>0.95</del>. Cost data derived from the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG) to provide for this facility, escalated to FY-89. A contingency factor of 5% is being used for this project.</p> <p>5. <u>Justification for Project and for Scope of Project</u>:</p> <p style="padding-left: 40px;">a. <u>Justification for Project</u>:</p> <p style="padding-left: 80px;">(1) <u>Project</u>: Proposed facilities are required to provide maintenance personnel with adequate and secure facilities to perform artillery and ordnance maintenance.</p> <p style="padding-left: 80px;">(2) <u>Current Situation</u>: Personnel are working in substandard and makeshift facilities that are totally inadequate in size, configuration, utility requirements, and site location.</p> <p style="padding-left: 80px;">(3) <u>Impact If Not Provided</u>: Personnel will continue to work in substandard and makeshift facilities, resulting in loss of work-time and wasted energy.</p> <p style="padding-left: 40px;">b. <u>Justification for Scope of Project</u>: The project scope, 210,300 SF, is the minimum size facility that can meet the deficiency requirements for the Combat/Automotive/Track Field Maintenance Shop needs of the Maintenance Battalion of the 2d Force Service Support Group. See paragraph 13.</p> <p>6. <u>Equipment Provided from Other Appropriations</u>: Not applicable.</p> <p>7. <u>Common Support Facilities</u>: Not applicable. There are no common support facilities available in the French Creek Area.</p> <p>8. <u>Effect on Other Resources</u>: The project will require approximately \$10,000 per year increased O&amp;MMC funds for increased utility services and operations. No additional personnel will be required to operate this facility. The project will enhance and improve the morale of personnel presently working in widely dispersed facilities. 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.</p>		



1. COMPONENT	FY 19 <u>89</u> MILITARY CONSTRUCTION PROJECT DATA	2. DATE <u>July 1985</u>
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	
<p style="text-align: center;"><u>UTILITY REQUIREMENTS</u></p> <p>a. <u>Electricity:</u>  Consumption: 1,500,000 KWHR/YR  Peak Demand: 900 KW  Avg. Demand: - KW</p> <p>b. <u>Steam:</u>  Consumption: 2,372,500 Lbs/Yr  Demand: 1,500 Lbs/Yr</p> <p>c. <u>Coal:</u> - Tons/Yr</p> <p>d. Adequate utilities will be provided by P-240, FY-85.</p> <p>9. <u>Siting of the Project:</u> This facility will be located in the French Creek Area, in keeping with the Camp Lejeune Master Plan. See enclosure (1).</p> <p>10. <u>Other Graphic Presentations, including Photographs:</u> NAVFAC Drawings 1294489, 1294491, and 1294493 submitted as Enclosure (2).</p> <p>11. <u>Economic Analysis:</u> This facility is being constructed on an undeveloped site. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of an operational mission located in this area.</p> <p>12. <u>Environmental Impact Assessment:</u> An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.</p> <p>13. <u>Quantitative Data:</u></p> <p>a. <u>Unit of Measure:</u> Square feet.</p> <p>b. <u>Total Requirement:</u> <sup>448,840</sup> <del>442,600</del> SF. The Basic Facility Requirement for the French Creek area (EA) is <sup>448,840</sup> <del>442,600</del> SF. NAVFAC P-80 states that the requirement for this category code (214-53) is determined from definitive drawings given in NAVFAC P-272, Part IV.</p>		

★  
"NOTICE"



1. COMPONENT MARINE CORPS	FY 19 <sup>89</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJUENE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)		5. PROJECT NUMBER P-804

<u>NAVFAC DWG #</u>	<u>DESCRIPTION</u>	<u>AREA SF</u>
1294489	Combat/Automotive/Track Fld Maint Shop	220,000
1294490	"	53,000
1294491	"	47,500
1294492	"	48,000
1294493	"	52,800
1294508	Vehicle Inspection Station	7,540
1294444M	<del>Construction Equipment Fld Maint Shop</del> OPERATIONAL READINESS FLOAT AND UTILITIES PLATOON.	<del>13,760</del> 29,000
	Total	<del>442,600</del> 448,840

c. Existing Substandard: 165,448 SF

<u>BUILDING NO.</u>	<u>AREA SF</u>
900*	3,600
901*	21,224
902*	50,064
905*	13,640
1601*	62,000
1771	14,920
Total	165,448 SF

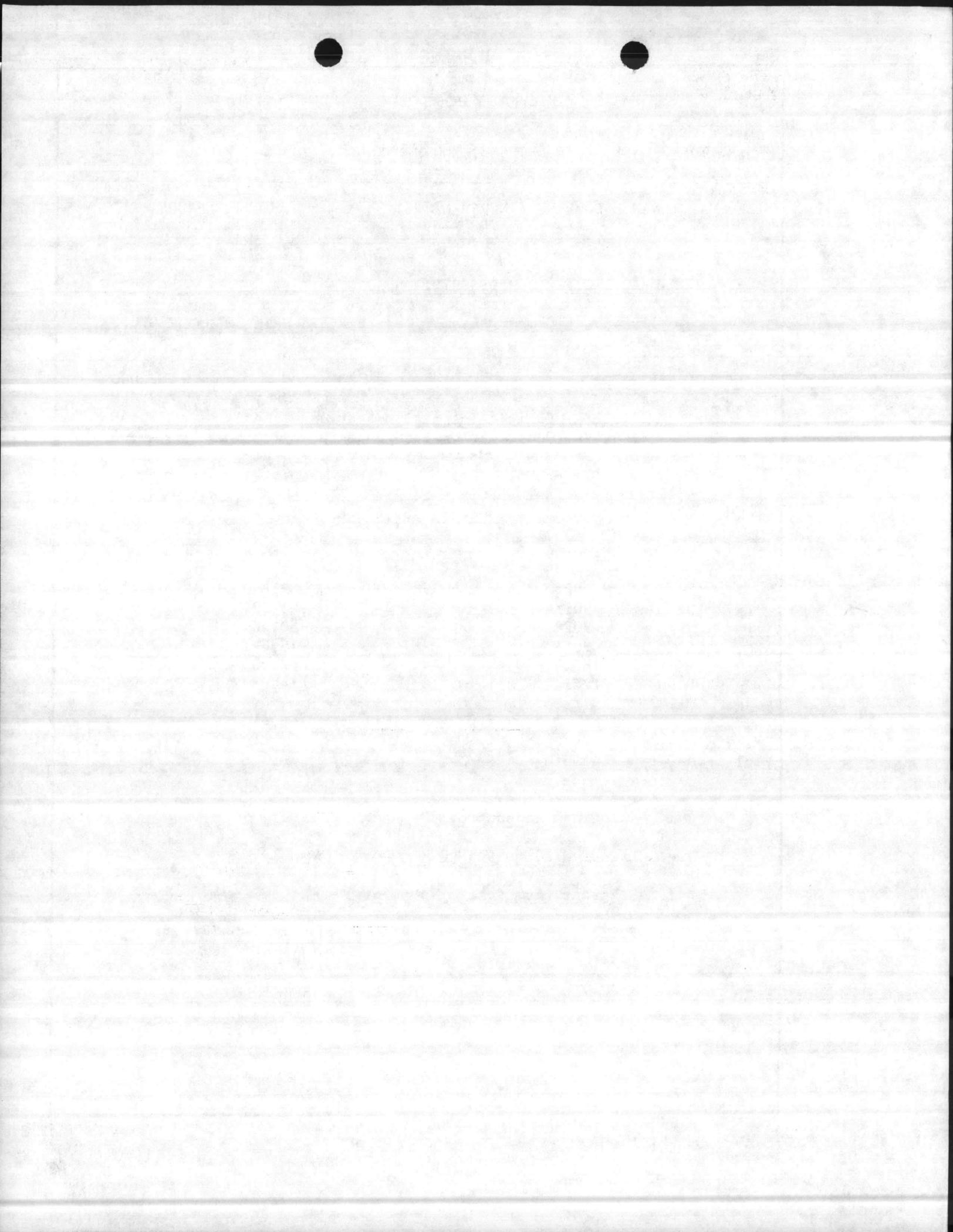
\*multi-use type buildings.

d. Existing Inadequate: 0

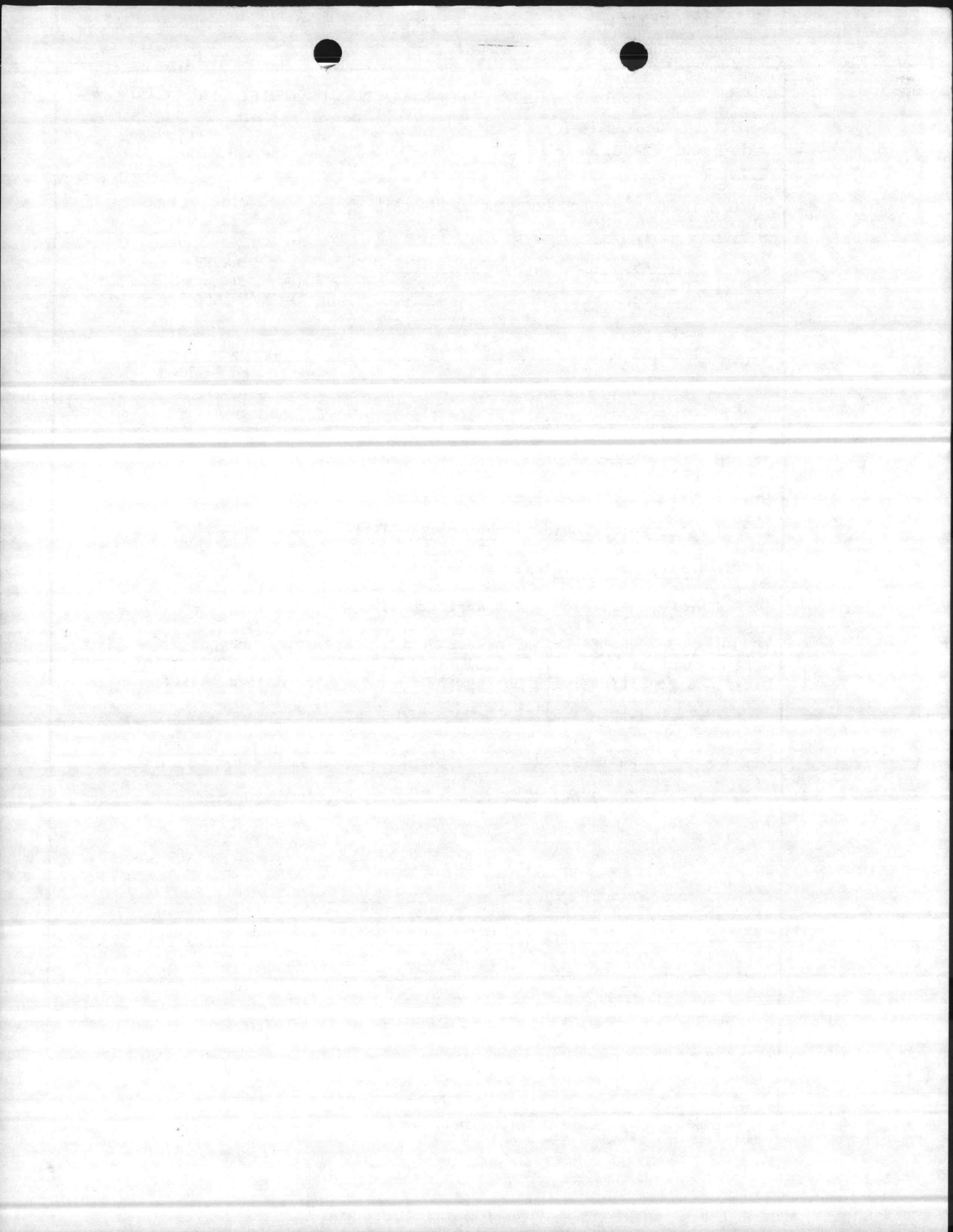
e. Existing Adequate: 0

f. Other Assets, Not in Inventory: 0

g. Funded, Not in Inventory: (FY-87) 60,540 SF



1. COMPONENT MARINE CORPS	FY 19 <sup>89</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE July 1985																		
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542																				
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804																			
<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;"><u>NAVFAC Dwg</u></th> <th style="text-align: left;"><u>Description</u></th> <th style="text-align: right;"><u>Area SF</u></th> </tr> </thead> <tbody> <tr> <td>1294490</td> <td>Combat/Automotive/Track Fld Maintenance Shop</td> <td style="text-align: right;">53,000</td> </tr> <tr> <td>1294508</td> <td>Vehicle Inspection Station</td> <td style="text-align: right;">7, 540</td> </tr> <tr> <td></td> <td style="text-align: right;">Total</td> <td style="text-align: right;">60, 540 SF</td> </tr> <tr> <td colspan="3">h. <u>Adequate Assets:</u> (e + f + g) = 60, 540 SF</td> </tr> <tr> <td colspan="3">i. <u>Deficiency:</u> (b - h) = <sup>388,300</sup><del>382,060</del> SF</td> </tr> </tbody> </table> <p>14. <u>Maintenance Facilities:</u> Not applicable.</p> <p>15. <u>Morale, Welfare and Recreation Facilities:</u> Not applicable.</p> <p>16. <u>Relocation Facilities:</u> Not applicable.</p> <p>17. <u>Storage Facilities:</u> Not applicable.</p> <p>18. <u>Hazard Identification, Assessment, and Analysis.</u> Proposed facility will be a Motor Transport School facility. The following potential hazardous conditions will be considered during the design phase:</p> <ul style="list-style-type: none"> <li>a. Exhaust fumes.</li> <li>b. Battery acid fumes.</li> <li>c. Gasoline/diesel fumes.</li> </ul>			<u>NAVFAC Dwg</u>	<u>Description</u>	<u>Area SF</u>	1294490	Combat/Automotive/Track Fld Maintenance Shop	53,000	1294508	Vehicle Inspection Station	7, 540		Total	60, 540 SF	h. <u>Adequate Assets:</u> (e + f + g) = 60, 540 SF			i. <u>Deficiency:</u> (b - h) = <sup>388,300</sup> <del>382,060</del> SF		
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DEPARTMENT OF THE NAVY  
 ATLANTIC DIVISION  
 NAVAL FACILITIES ENGINEERING COMMAND  
 NORFOLK, VIRGINIA 23511-6287

TELEPHONE NO.

444-9670

IN REPLY REFER TO:

09A21B3

11010

12 AUG 1985

P-804

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

Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE,  
 CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

Ref: (a) MCB CAMP LEJEUNE ltr 11000 PWO of 1 Jul 85

- Encls: (1) Projected COMNAVFACENGCOM Cost Index dated 1 Oct 84  
 (2) Copy of Award Cost Data for CES Historical  
 (3) Draft copy of Guide for Preparation of 1391  
 (4) Draft copy of DM-10  
 (5) Copy of CES Unit Price Guide (FY 87)

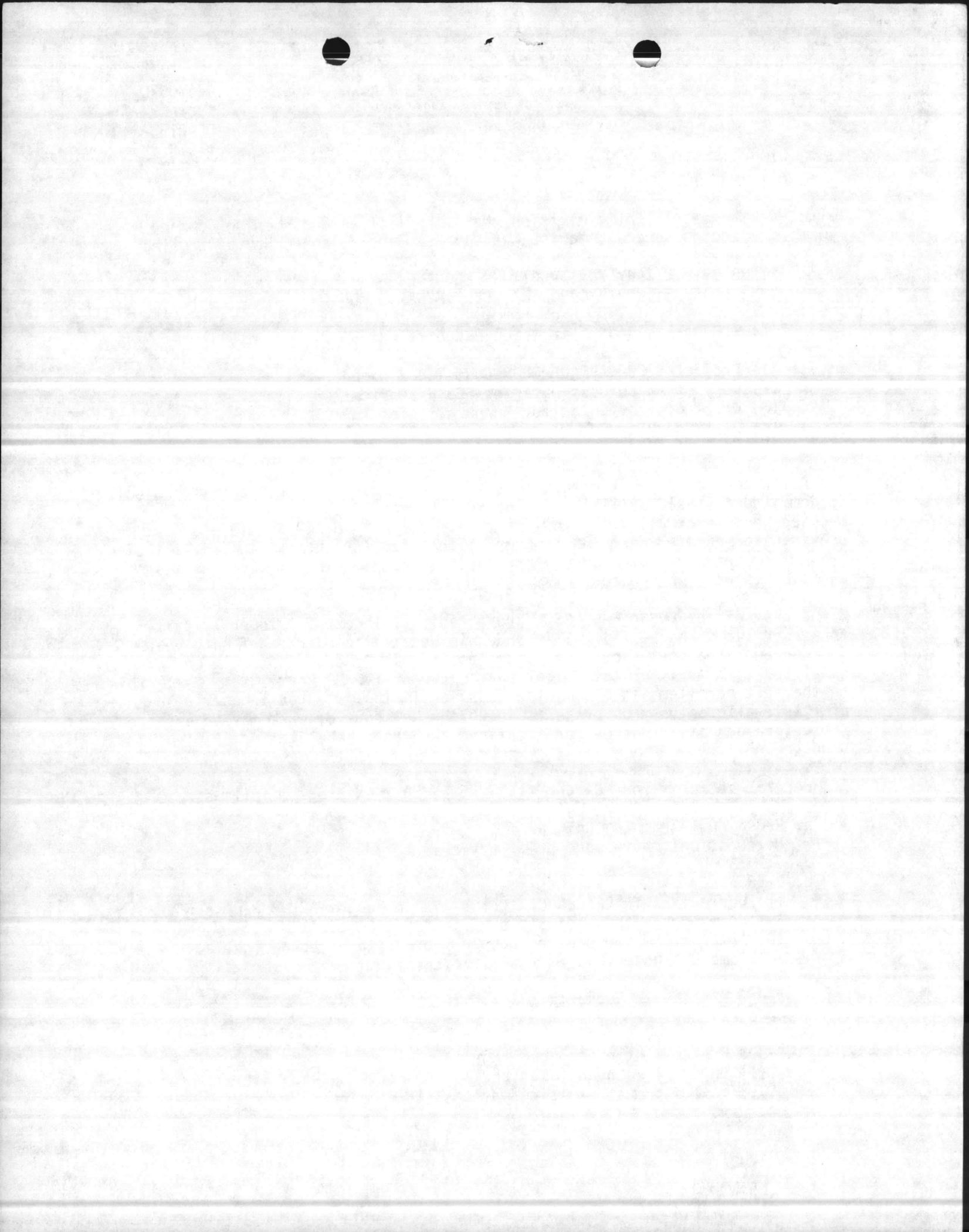
1. Reference (a) requested that this Command certify the cost of all projects to Commander, Naval Facilities Engineering Command. To accomplish this, back-up cost information is considered necessary. A back-up estimate must be provided for each DD Form 1391. Lump-sum entries for supporting facilities are not acceptable. High supporting facility costs with lump-sum entries unexplained will be reduced.

2. A copy of the COMNAVFACENGCOM projected cost index of October 1984 is forwarded as enclosure (1). This index is updated in October of each year. The current area cost factor for your location is 0.86 Costs should be escalated to 1 April of the fiscal year shown on the DD Form 1391. State this to the left of "item" in block nine (cost estimates.) A contingency allowance of 10% is allowed only on projects in which the scope of work may be expanded for unforeseen items during construction, such as rehabilitation or underground.

3. General comments for MCB CAMP LEJEUNE FY 88 MCON program follows:

- a. P-846 MOUT Training Complex  
 No questions, have made prior review.
- b. P-626 BEQ
  - (1) Current LANTNAVFACENGCOM policy is to budget BEQ @ 820 sq.ft./2 room module this adjusts area to 492,000 sq. ft.
  - (2) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.
- c. P-057 Division Headquarters was FY 87  
 NO questions.
- d. P-803 Field Maintenance Complex
  - (1) Unit Price Shown is beyond all reason. Back up estimate for building must explain why cost is so high.

RECEIVED  
 11 AUG 1985

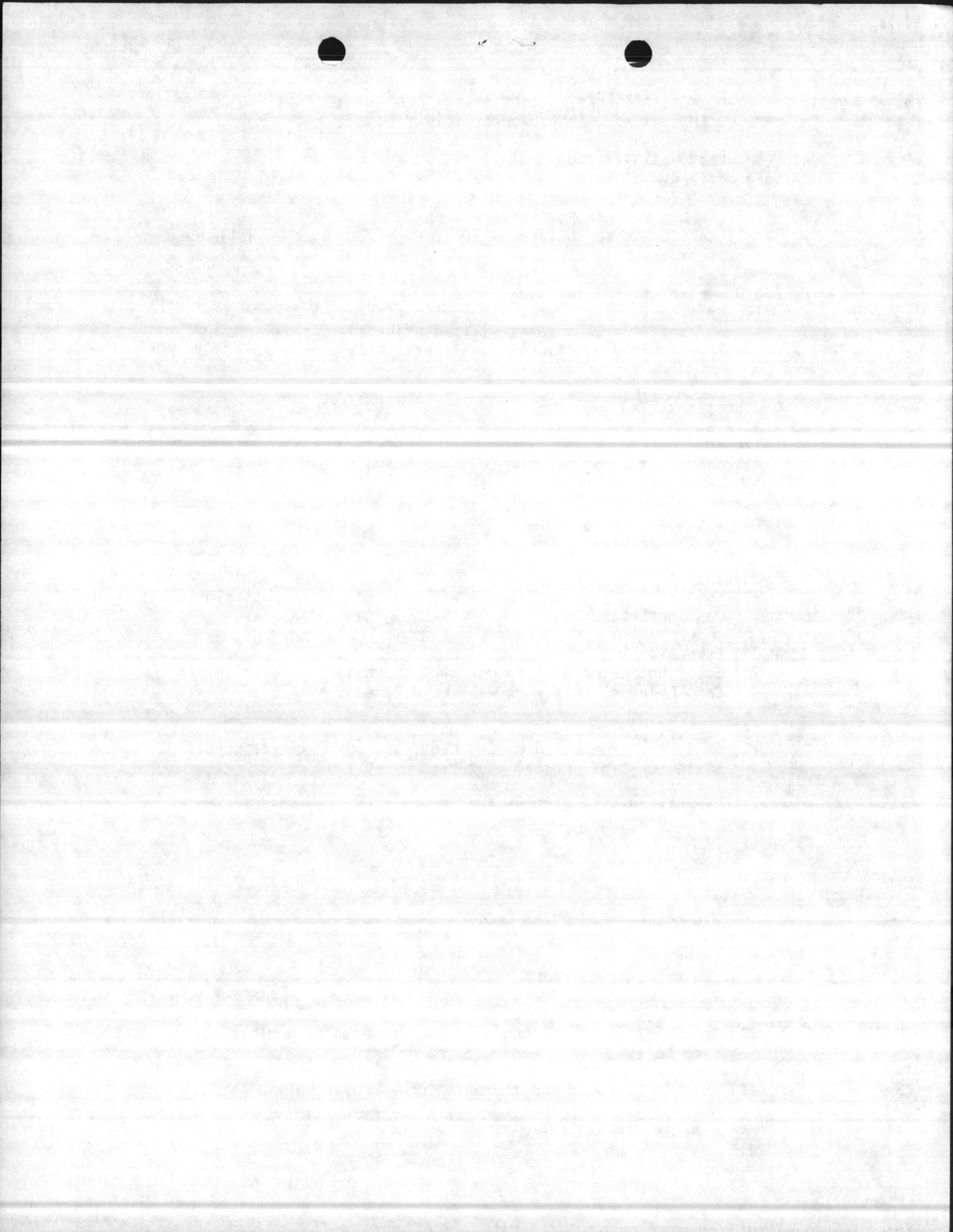


Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE,  
CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

- e. P-841 Mess Hall Addition  
No questions.
- f. P-678 Combat Vehicle Maintenance Shop  
(1) Unit costs for buildings are very high. Back up estimate should show why.
- g. P-810 Mechanics Training Bldg Inc #3  
(1) Unit costs FT 87 for P-809 1391 certified 15 Jun, were \$57/sq. ft. Bldg costs will be adjusted to this pricing level unless additional justification is provided.
- h. P-256 Field Maintenance Shop  
No questions.
- i. P-124 B0Q  
(1) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.
- j. P-851 Electrical Dist. Imp.  
No questions.
- k. P-824 Chapel  
(1) Cost shown is excessive, it will be reduced to cost similar to past projects.
- l. P-065 Gymnasium  
(1) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.
- m. P-842 Regional Automated Service Center  
(1) Cost shown for building are high, back up estimate should state scope of unusual features.

4. General comments for MCB CAMP LEJEUNE FY 89 MCON program follows:

- a. P-529 BEQ  
See comments on FY 88 BEQ, P-626
- b. P-849 B0Q  
See comments on FY 88 B0Q, P-124.
- c. P-804 Combat/Auto/Track Field Maintenance Shop  
See comments on P-803.
- d. P-679 Elec/Comm. Field Maintenance Shop  
(1) Solar hot water heating does not prove to be economical at Camp Lejeune, this work will be deleted.  
  
(2) Unit costs shown for the building are extremely high, without justification they will be reduced to those paid for similar facilities.



12 AUG 1985

Subj: FY 88-89 MILITARY CONSTRUCTION (MCON) PROGRAM FOR MARINE CORPS BASE,  
CAMP LEJEUNE, NORTH CAROLINA; CERTIFICATION OF

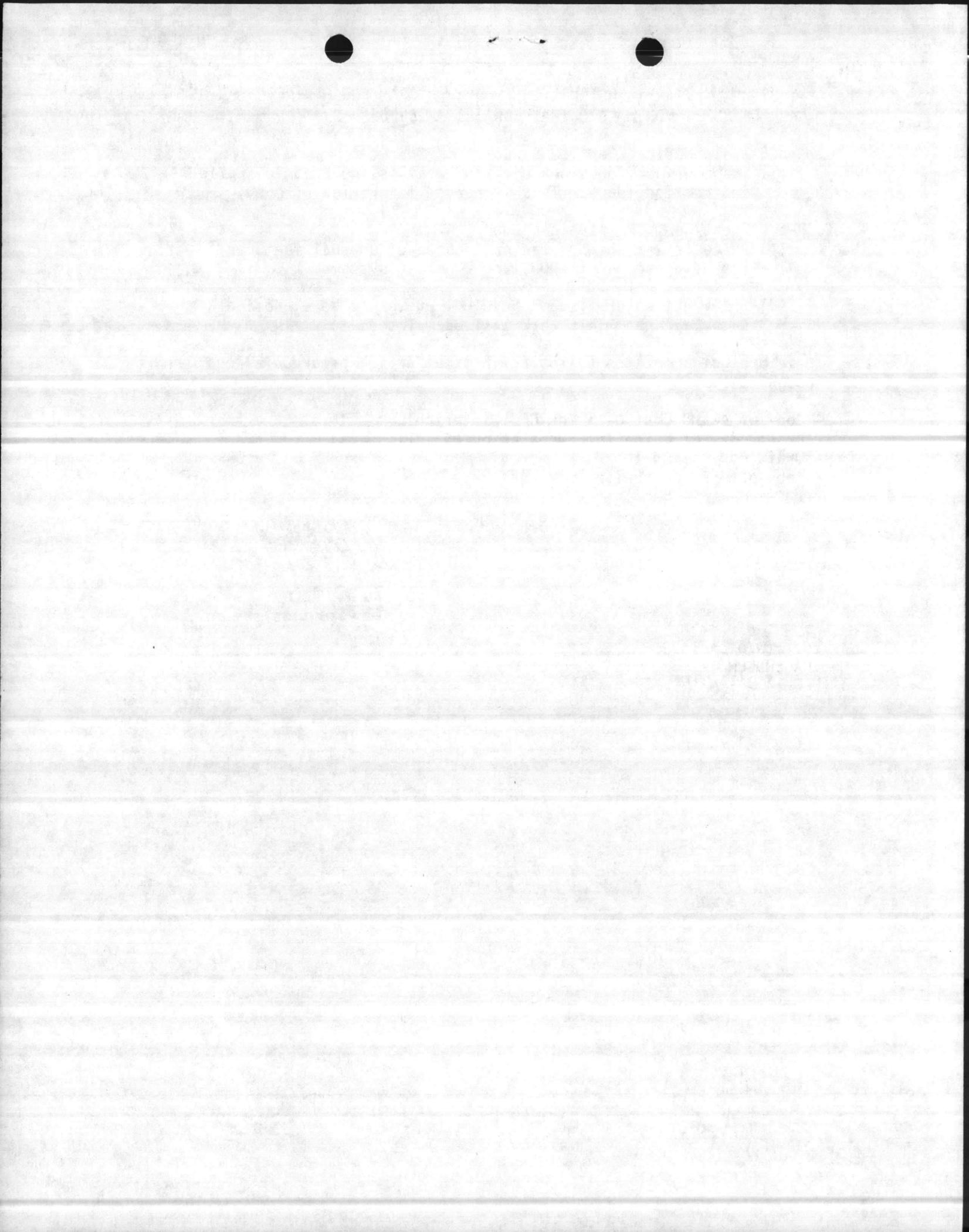
- e. P-828 Field Medical Service School
  - (1) Scope of work does not explain what is included in applied instruction space. This is needed for review of cost.
- f. P-564 Elect/Comm. Maintenance Shop
  - (1) Price is very high. Indicate scope of unusual features including scope of 400HZ and DC power systems.
  - (2) Solar hot water systems have not proven to be economical in Camp Lejeune. This work will be deleted.

5. For future guidance, the following information is forwarded as enclosures (2) through (5):

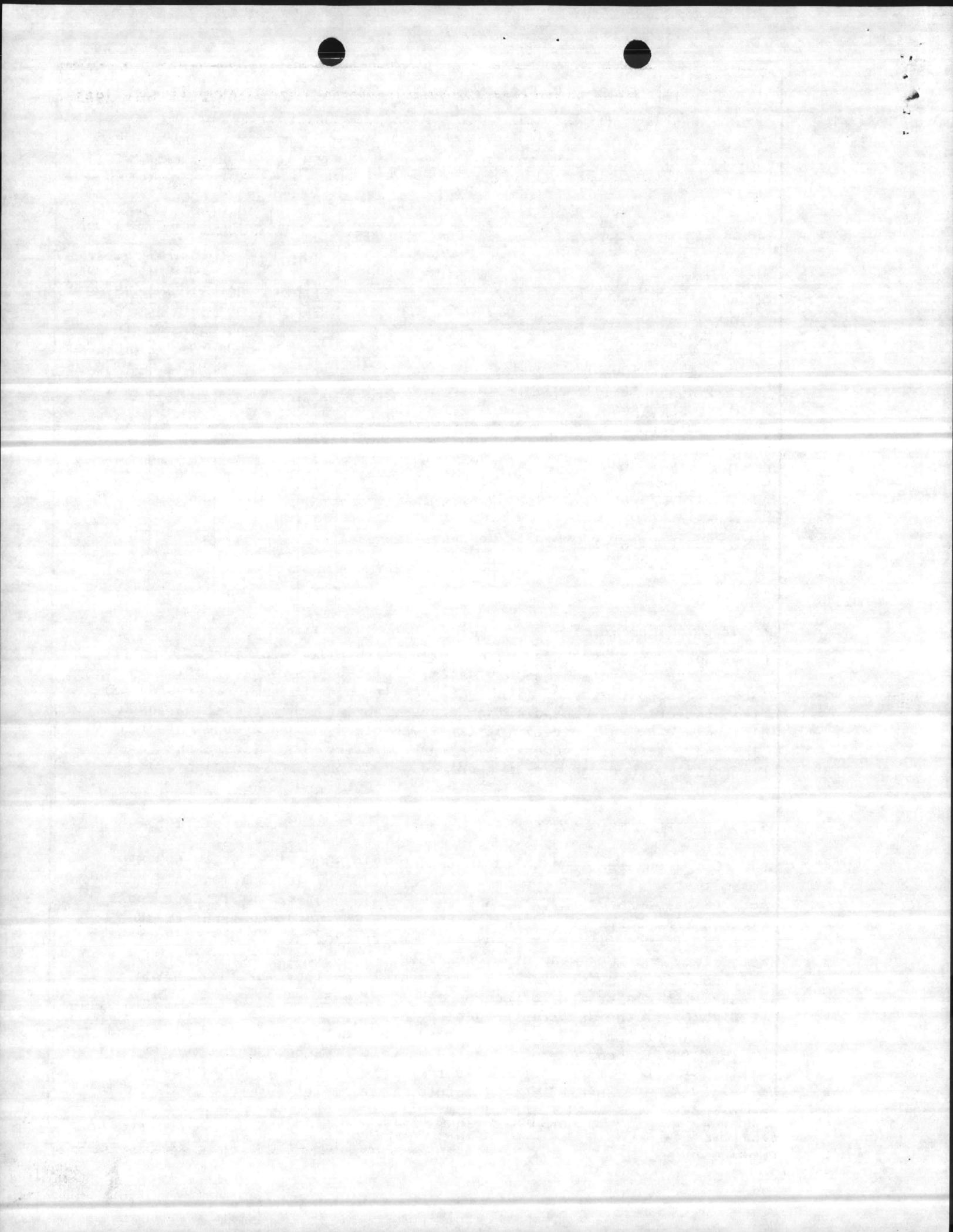
- Copy of Award Cost Data for CES Historical.
- Draft copy of Guide for Preparation of 1391.
- Draft copy of DM-10.
- Copy of CES Unit Price Guide (FY 87.)

  
D. H. Phelps  
By direction

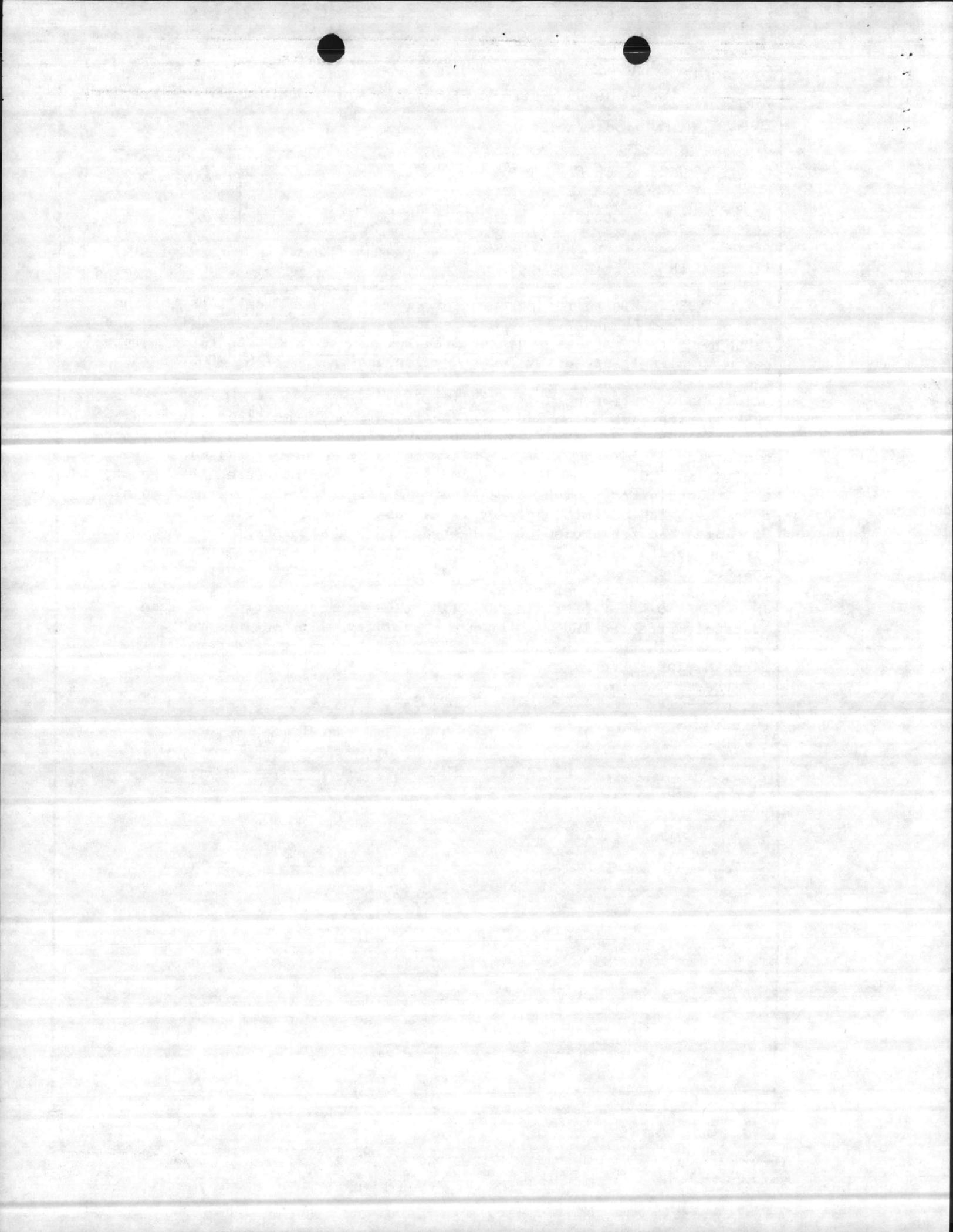
Copy to: (w/o encls.)  
COMNAVFACENGCOM  
CMC (LFF-1)



1. COMPONENT MARINE CORPS		FY 19 89 MILITARY CONSTRUCTION PROJECT DATA			2. DATE 1 July 1985	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542				4. PROJECT TITLE COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (INCREMENT 3)		
5. PROGRAM ELEMENT		6. CATEGORY CODE 214-53	7. PROJECT NUMBER P-804		8. PROJECT COST (\$000) 30,500	
ESCALATED TO FY-89				9. COST ESTIMATES		
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)	
FIELD MAINTENANCE SHOP		SF	210,300	120.74	25,391	
Building - Shop 2		SF	47,500	118.80	(5,643)	
Building - Shop 4		SF	52,800	118.80	(6,272)	
Craneway		SF	110,000	92.40	(10,164)	
Built-In Equipment		LS	-		(3,312)	
SUPPORTING FACILITIES		LS	-		2,142	
Water, Stm, Sewer, Fire Alarm/Telephone, Site Improvement		LS	-		(2,142)	
SUBTOTAL		LS	-		27,533	
CONTINGENCY - 5%		LS	-		1,377	
ESTIMATED CONTRACT COST		LS	-		28,910	
SUPERVISION, INSPECTION, & OVERHEAD - 5.5%		LS	-		1,590	
TOTAL REQUEST (ROUNDED)		LS	-		30,500	
INSTALLED EQUIPMENT - OTHER APPROPRIATIONS		-	-			
10. DESCRIPTION OF PROPOSED CONSTRUCTION						
<p>Permanent two-story shops and craneways with piles, reinforced concrete foundation, floors and masonry walls. Built-up roof over insulation and interior support systems (i.e., air conditioning, steam, compressed air, fire protection, overhead bridge cranes, engine exhaust system, lube dispensing, hydraulic vehicle lifts, vehicle paint spray booths) area lighting, exterior pavement, site work, utility connections, and paved tank trail with crossings as required. (82 Tons Air Conditioning).</p>						
11. REQUIREMENTS: <u>442,600 SF</u> Adequate: <u>0 SF</u> Substandard: <u>165,448 SF</u>						
<p><u>PROJECT:</u> Construct the third increment (210,300 SF) of a 442,600 SF Consolidated Field Maintenance Facility (3rd and 4th echelon maintenance) for 2nd Maintenance Bn., 2d FSSG to maintain and repair all East Coast Fleet Marine Force ground equipment. This includes wheel and track vehicles (tanks, light armored vehicles, trucks, etc.), ordinance repair, (artillery and tank weaponry), heavy equipment (bulldozers, cranes, etc.) and communications/electronics equipment. Facility will have paved tracked vehicle trails for access and/or egress.</p> <p><u>REQUIREMENT:</u> The 2nd Maintenance Bn. has the requirement to perform field maintenance for all East Coast ground equipment; this includes the 2nd Marine Division and 2d FSSG located at Camp Lejeune, NC and the 2d Marine Air Wing with elements located in three areas; Cherry Point, NC, New River, NC and Beaufort, SC. The total requirement for this facility is</p>						



1. COMPONENT MARINE CORPS	FY 19_89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (INCREMENT 3)	5. PROJECT NUMBER P-804	
<p>11. <u>REQUIREMENTS</u> (Continued)</p> <p>442,600 SF. This third increment provides adequate facilities for the Artillery and Ordnance Field Maintenance portion of this facility. One subsequent increment will be required for tracked vehicles field maintenance Complex is presently under development in the FY-87 MCON program and will provide adequate facilities for the Motor Transport Field Maintenance portion of this facility.</p> <p><u>CURRENT SITUATION:</u> The 2nd Maintenance Bn., performs field maintenance in only 165,448 SF of area in four converted warehouses, a WW-II maintenance depot, and a small metal ulter building. These facilities (Buildings 900, 901, 902, 905, 1607 and 1771) are scattered throughout the Industrial Area of Camp Lejeune. The Artillery and Ordnance maintenance is being performed at several areas within the indicated facilities. Staging areas for equipment to be repaired are also scattered throughout the Industrial Area. Scatteration of and makeshift substitute work spaces cause cumbersome and uncoordinated work efforts severly hampering the mission of this Battalion.</p> <p><u>IMPACT IF NOT PROVIDED:</u> The deadline time on equipment will remain adversely affected and maintenance capability will continue to be impaired with resulting adverse affect on the combat readiness of the Fleet Marine Force.</p>		



1. COMPONENT  
MARINE CORPS

FY 1982 MILITARY CONSTRUCTION PROJECT DATA

2. DATE  
1 July 1985

3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE

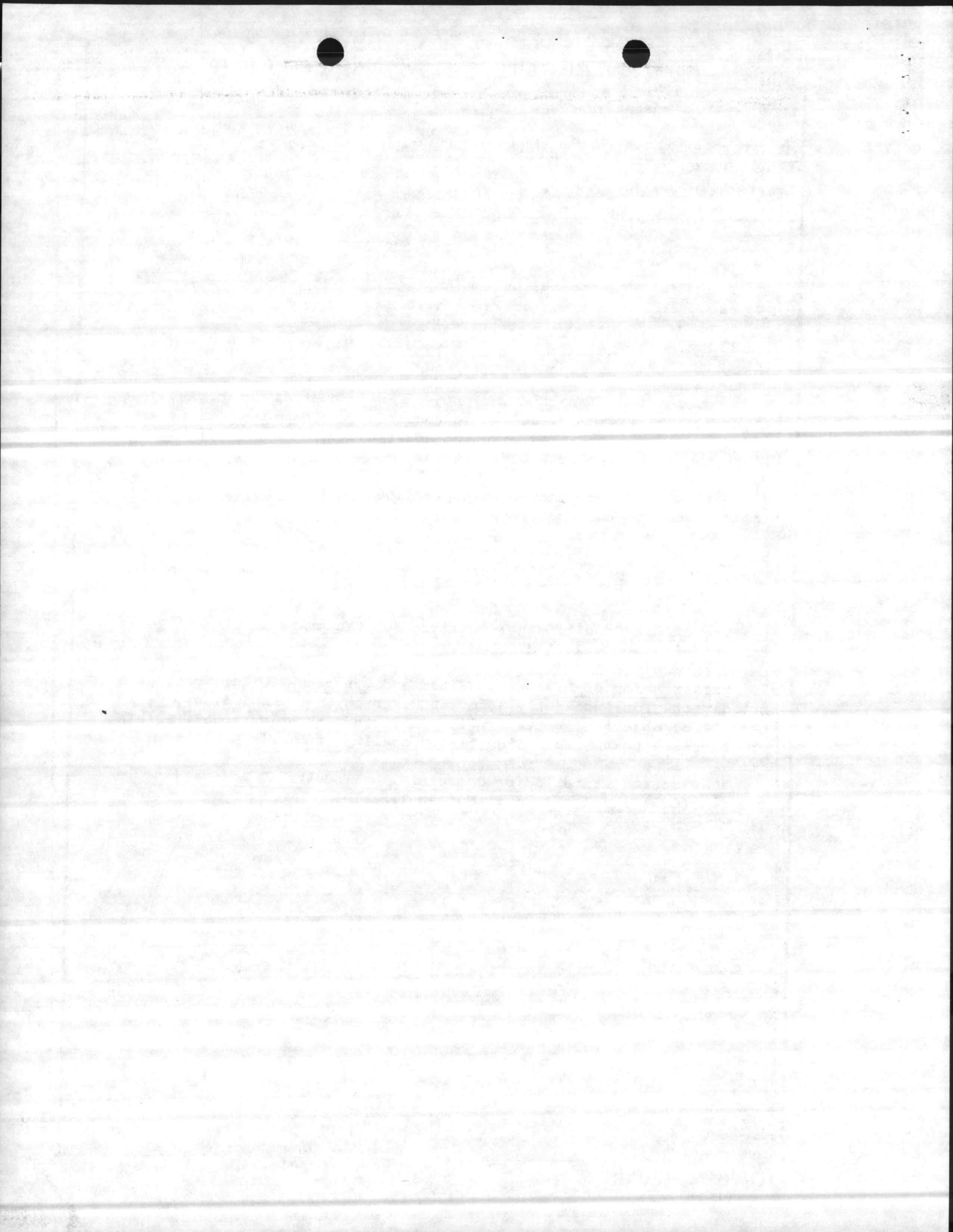
FIELD MAINTENANCE COMPLEX (INCREMENT #3)

5. PROJECT NUMBER

P-804

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 made, reviewed, and where required, the design concepts will be 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 19 <del>89</del> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985
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4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	
<p><u>FACILITY STUDY</u></p> <p>1. <u>Project</u>: Provide 210,300 SF of Combat/Automotive/Track Field Maintenance Shop area as Increment 3 of a total planned 442,600 SF maintenance complex.</p> <p>2. <u>Current and Planned Future Workload with Regard to This Project</u>: The duration of need is indefinite and the facility will be utilized 100 percent of the time. An average of ten hours per day for a five-day work week is spent in the shops. The organization is responsible for performing third and fourth echelon maintenance on equipment assigned to the 2d Marine Division (FMF); Marine Corps Air Station (H), New River; and 2d Force Service Support Group (REIN). The future workload is difficult to project; however, it is expected to increase as the present equipment becomes older and new items are introduced into the system.</p> <p>3. <u>Description of Proposed Organization</u>:</p> <p>a. <u>Type of Construction</u>:</p> <p>Permanent two-story maintenance shop on pilings, reinforced concrete foundations, floors, masonry walls, built-up roof, insulation, interior support systems, and air conditioning. Rigid and flexible walks and parking pavements, site improvements, exterior utilities, paved tank trail with crossings.</p> <p>b. <u>Replacement</u>: Not applicable; existing facilities will be temporarily utilized to satisfy deficiencies until new facilities are constructed.</p> <p>c. <u>Description of Work to be Done</u>:</p> <p>(1) <u>Primary Facility</u>: Modular reinforced concrete/masonry structure on pile foundation, overhead bridge cranes with supporting structure, air conditioning and dehumidification of optical and weapons repair areas, security artillery and ordnance repair areas, engine exhaust system, 6V, 12V &amp; 24V DC Engine start up system. Exterior utility connections, pavements and site improvements.</p> <p>(2) <u>Energy Conservation</u>: Energy efficient equipment and building materials and orientation for maximum energy conservation will be utilized.</p>		



ALABAMA POWER COMPANY

1. COMPONENT MARINE CORPS	FY 19 89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	
<p>(3) <u>Collateral Equipment:</u></p> <p>(a) <u>Built-in MCON Funded:</u></p> <ul style="list-style-type: none"> <li>*Venetian blinds and window screens</li> <li>*Air Conditioning, heating, and ventilating systems</li> <li>*Interior steam system</li> <li>*Sprinkler system</li> <li>*Plumbing system</li> <li>*Telephone, fire alarm, and intercom systems</li> <li>*Drinking water coolers</li> <li>*Air hose reel, 150 PSI H.D., w/hose control valve and hose stop (ceiling, wall, or pedestal mounted)</li> <li>*Elec extension cord reel, H.D. w/cord stop (ceiling, wall, or pedestal mounted)</li> <li>*Water hose reel, H.D., w/hose control valve and hose stop (ceiling, wall or pedestal mounted)</li> <li>*Lube hose reel, H.D., w/hose control (ceiling, wall or pedestal mounted)</li> <li>*Exhaust system, underground (automotive or construction equipment)</li> <li>*Pass window, 4' wide, w/counter &amp; "B" label roll down shutter, w/fusible link, if required</li> <li>*1-ton overhead bridgecrane</li> <li>*5-ton overhead bridgecrane</li> <li>*10-ton overhead bridgecrane</li> <li>*15-ton overhead bridgecrane</li> </ul>		



1. COMPONENT MARINE CORPS		FY 19 89 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 1 July 1985	
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542					
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)				5. PROJECT NUMBER P-804	
(3) <u>Collateral Equipment</u> : (Continued)					
*20-ton overhead bridgecrane					
*75-ton overhead bridgecrane					
*Paint spray booths					
*Paint drying oven					
*Twin post hydraulic lift, H. D., 40,000 lb. capacity					
*6, 12 & 24 volt DC Engine Start Systems					
(b) <u>Expense Items</u> :					
<u>Description</u>		<u>Qty</u>	<u>Unit Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Bench, work, stationary, 28"D, 34"H		88	LF	77.59	\$ 6,827
Bin parts, rota, 3'D, multi-bin		3	EA	360.00	1,080
Shelving, 12"W, w/adj Stds		6	EA	90.00	540
Tank, cleaning, parts, portable 38'x22'x34'		2	EA	395.00	790
Bench, work stationary 36"D, 34"H		2	EA	75.00	150
Stand, axle		1	EA	200.00	200
Machine, sewing, light textile		1	EA	750.00	750
Table, layout, 16'x5', light textile		1	EA	200.00	200
Table, work 16'x2', light textile		7	EA	175.00	1,225
Machine, sewing, heavy canvas		3	EA	1,100.00	3,300
Table, work, 16'x7' wood top		3	EA	225.00	675
Shelving, 24"W		1,324	LF	10.00	13,240



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BY THE LIBRARY BOARD OF THE UNIVERSITY OF TORONTO

1. COMPONENT MARINE CORPS	FY 19_89 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)		5. PROJECT NUMBER P-804

(b) Expense Items: (Continued)

<u>Description</u>	<u>Qty</u>	<u>Unit Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Machinè, OM, cleaning, 2'x5'	1	EA	300.00	300
Tanks, OM equip rinse, 2'x2'	3	EA	35.00	105
Bench, OM repair, 3'x4'	24	EA	60.00	1,440
Bench, electronics repair, 36"x144"x34"H	47	EA	90.00	4,230
Cleaner, ultrasonic (electronic components)	2	EA	1,000.00	2,200
Racks, store 48"Dx48"H	1	EA	125.00	125
Racks, store, 36"Dx24"H	3	EA	100.00	<u>300</u>
TOTAL EXPENSE ITEMS				37,677

(c) INVESTMENT ITEMS - None.

(d) APA EQUIPMENT - None.

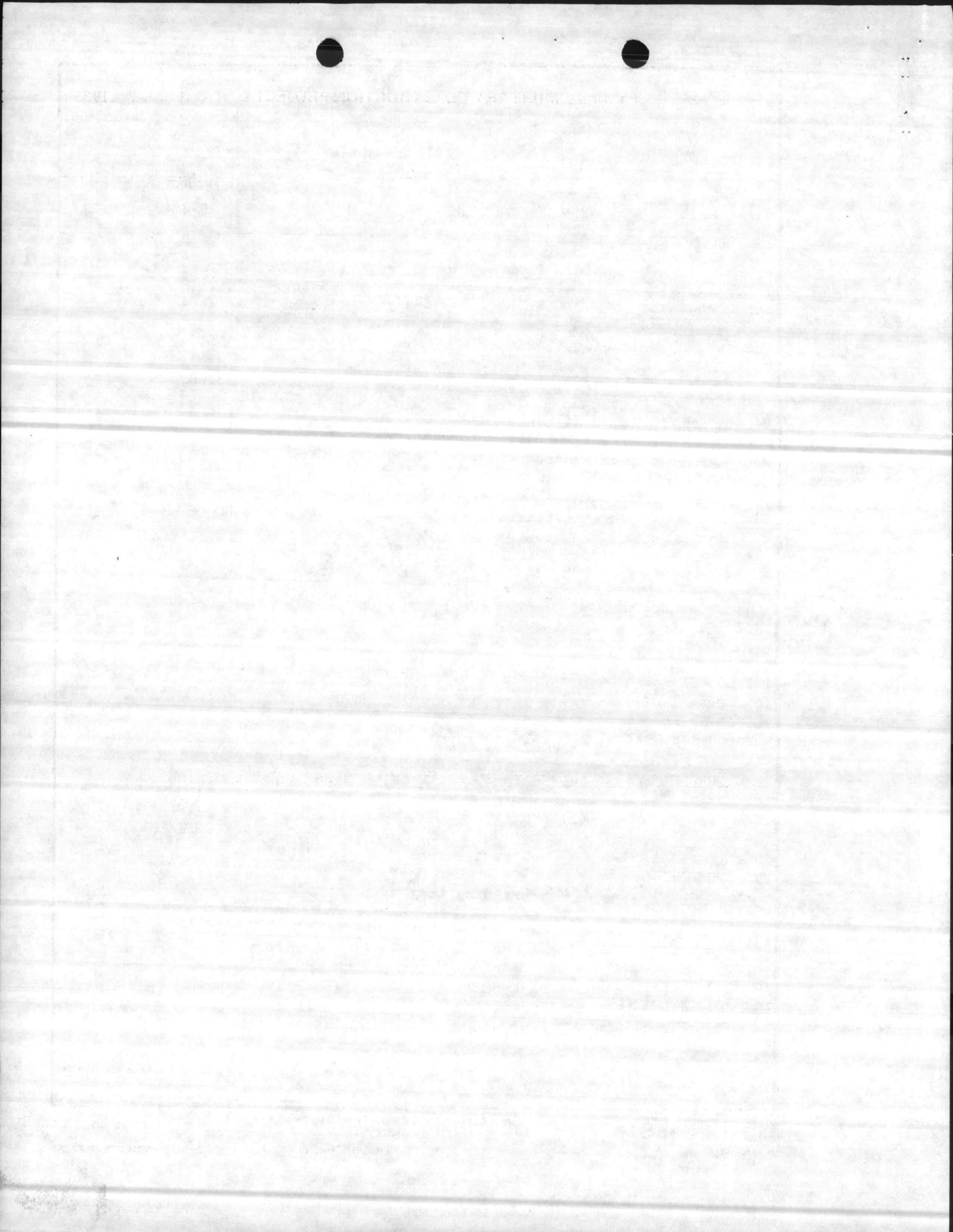
(e) TRAINING EQUIPMENT - None.

(f) SUMMARY:

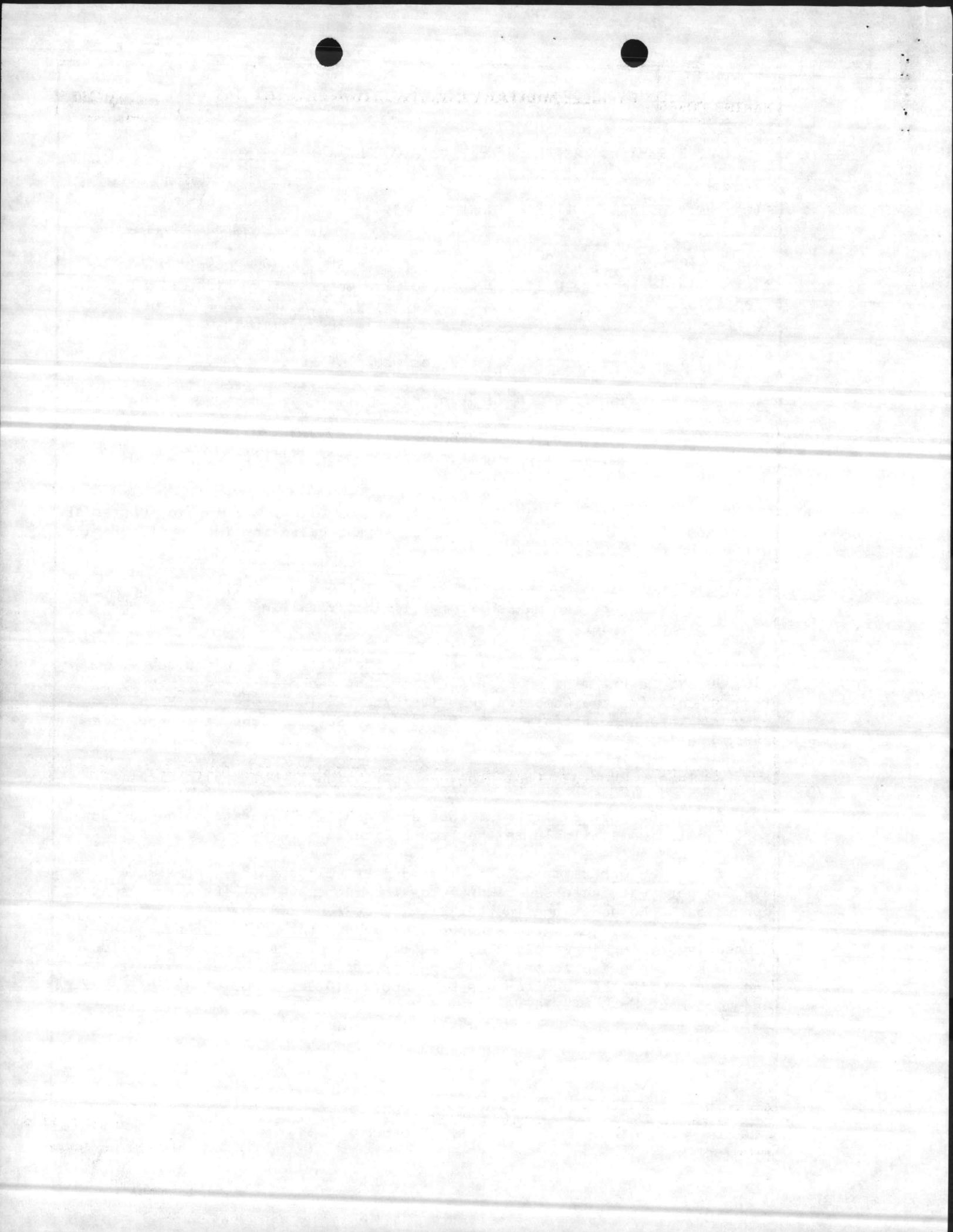
Expense Items	37,677
Investment Cost	-
Training Cost	-
	<hr/>

Total Cost 37,677

(4) Supporting Facilities: Special piling, foundation, collateral equipment, site improvement, pollution abatement, utility connections, etc. No demolition will be accomplished on this project.



1. COMPONENT MARINE CORPS	FY 1989 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804	
<p>4. <u>Cost Estimate</u>: Area cost factor for Camp Lejeune, NC is 0.95. Cost data derived from the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG) to provide for this facility, escalated to FY-89. A contingency factor of 5% is being used for this project.</p> <p>5. <u>Justification for Project and for Scope of Project</u>:</p> <p style="padding-left: 40px;">a. <u>Justification for Project</u>:</p> <p style="padding-left: 80px;">(1) <u>Project</u>: Proposed facilities are required to provide maintenance personnel with adequate and secure facilities to perform artillery and ordnance maintenance.</p> <p style="padding-left: 80px;">(2) <u>Current Situation</u>: Personnel are working in substandard and makeshift facilities that are totally inadequate in size, configuration, utility requirements, and site location.</p> <p style="padding-left: 80px;">(3) <u>Impact If Not Provided</u>: Personnel will continue to work in substandard and makeshift facilities, resulting in loss of work-time and wasted energy.</p> <p style="padding-left: 40px;">b. <u>Justification for Scope of Project</u>: The project scope, 210,300 SF, is the minimum size facility that can meet the deficiency requirements for the Combat/Automotive/Track Field Maintenance Shop needs of the Maintenance Battalion of the 2d Force Service Support Group. See paragraph 13.</p> <p>6. <u>Equipment Provided from Other Appropriations</u>: Not applicable.</p> <p>7. <u>Common Support Facilities</u>: Not applicable. There are no common support facilities available in the French Creek Area.</p> <p>8. <u>Effect on Other Resources</u>: The project will require approximately \$10,000 per year increased O&amp;MMC funds for increased utility services and operations. No additional personnel will be required to operate this facility. The project will enhance and improve the morale of personnel presently working in widely dispersed facilities. 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.</p>		



1. COMPONENT MARINE CORPS	FY 19 <u>89</u> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)		5. PROJECT NUMBER P-804

UTILITY REQUIREMENTS

a. Electricity:

Consumption: 1,500,000 KWHR/YR  
Peak Demand: 900 KW  
Avg. Demand: - KW

b. Steam:

Consumption: 2,372,500 Lbs/Yr  
Demand: 1,500 Lbs/Yr

c. Coal:

- Tons/Yr

d. Adequate utilities will be provided by P-240, FY-85.

9. Siting of the Project: This facility will be located in the French Creek Area, in keeping with the Camp Lejeune Master Plan. See enclosure (1).

10. Other Graphic Presentations, including Photographs: NAVFAC Drawings 1294489, 1294491, and 1294493 submitted as Enclosure (2).

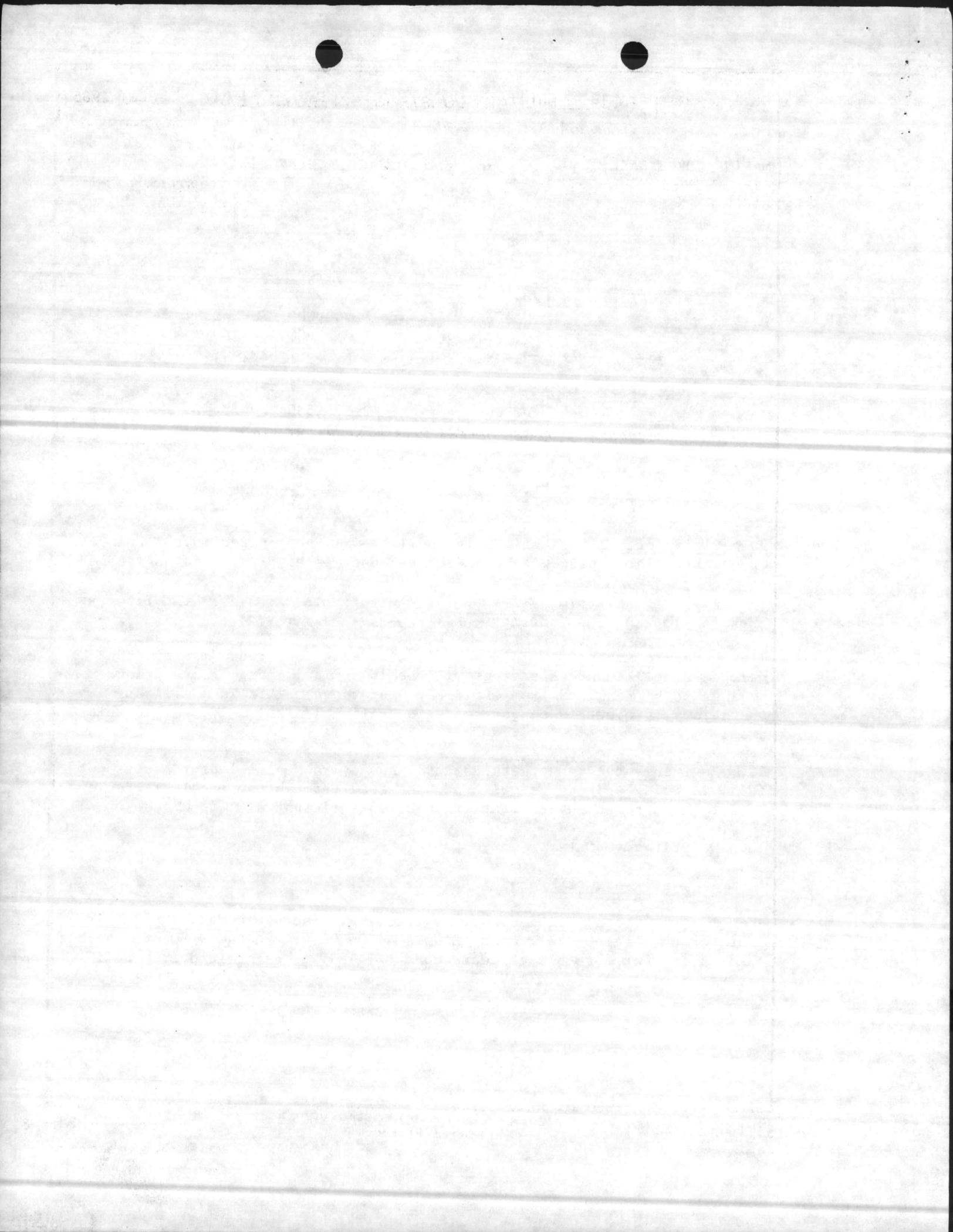
11. Economic Analysis: This facility is being constructed on an undeveloped site. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of an operational mission located in this area.

12. Environmental Impact Assessment: An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

13. Quantitative Data:

a. Unit of Measure: Square feet.

b. Total Requirement: 442,600 SF. The Basic Facility Requirement for the French Creek area (EA) is 442,600 SF. NAVFAC P-80 states that the requirement for this category code (214-53) is determined from definitive drawings given in NAVFAC P-272, Part IV.



1. COMPONENT MARINE CORPS	FY 19 <sup>89</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985
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3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJUENE, NORTH CAROLINA 28542
---

4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)	5. PROJECT NUMBER P-804
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<u>NAVFAC DWG #</u>	<u>DESCRIPTION</u>	<u>AREA SF</u>
1294489	Combat/Automotive/Track Fld Maint Shop	220,000
1294490	"	53,000
1294491	"	47,500
1294492	"	48,000
1294493	"	52,800
1294508	Vehicle Inspection Station	7,540
1294444	Construction Equipment Fld Maint Shop	13,760
	Total	442,600

c. Existing Substandard: 165,448 SF

<u>BUILDING NO.</u>	<u>AREA SF</u>
900*	3,600
901*	21,224
902*	50,064
905*	13,640
1601*	62,000
1771	14,920
Total	165,448 SF

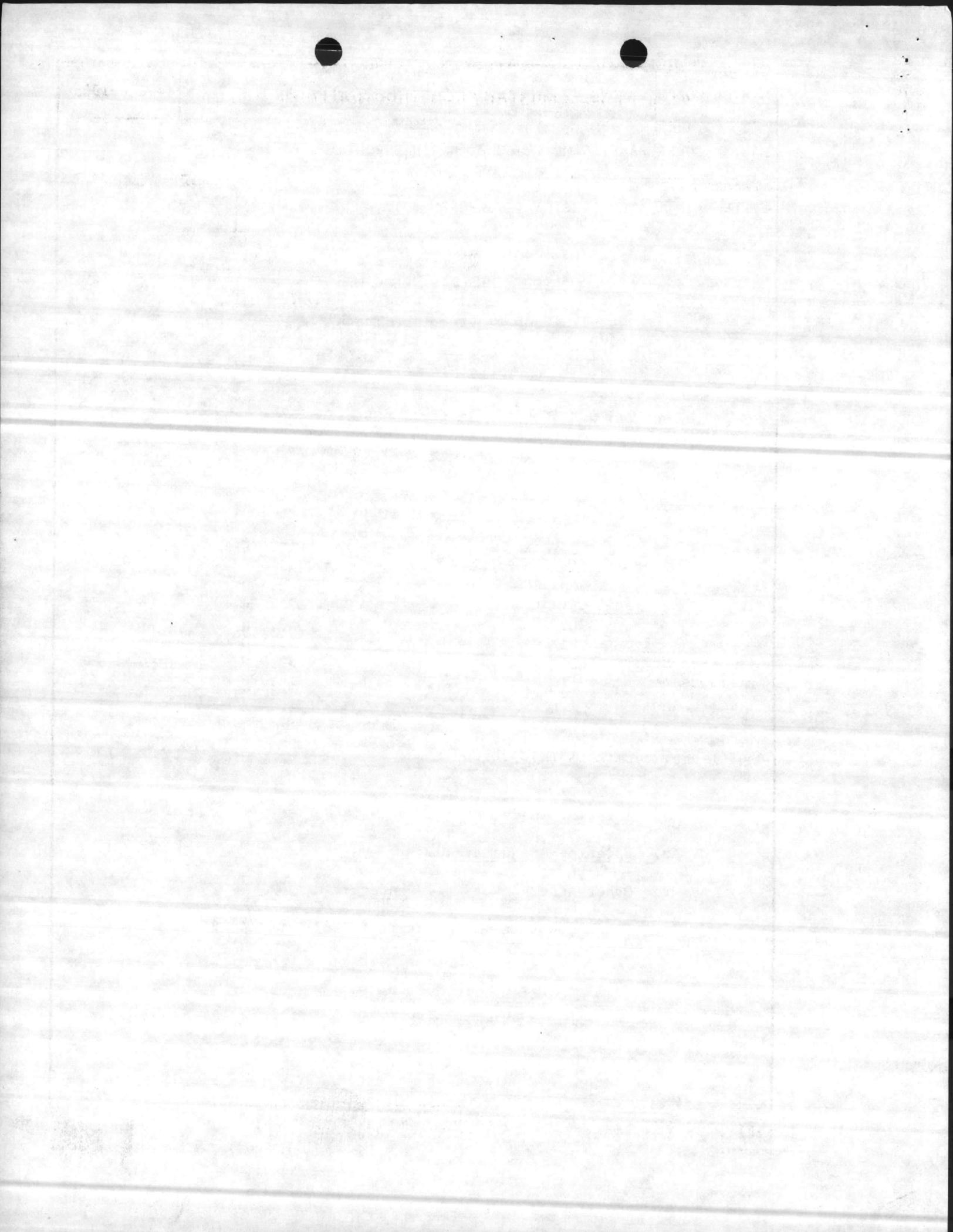
\*multi-use type buildings.

d. Existing Inadequate: 0

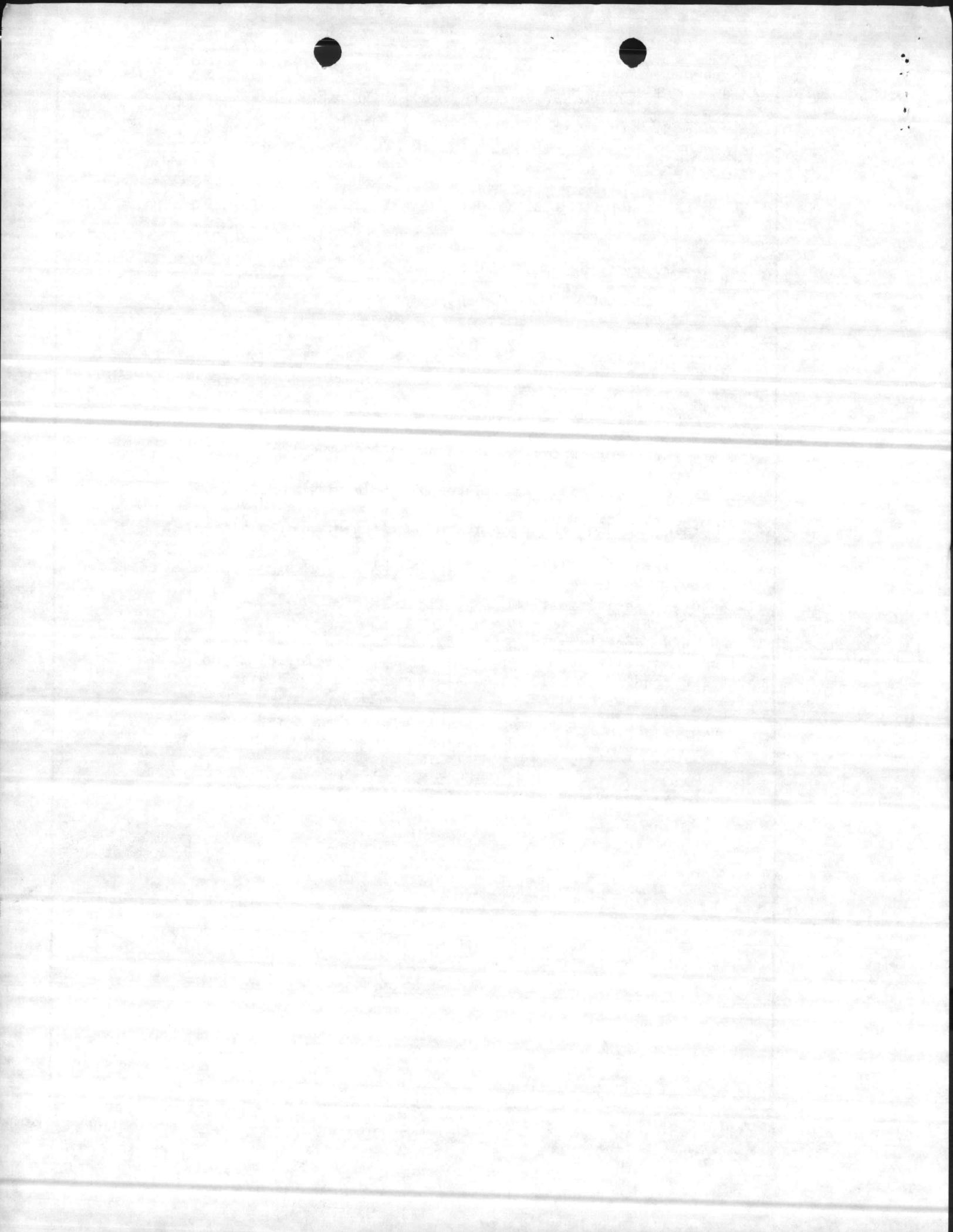
e. Existing Adequate: 0

f. Other Assets, Not in Inventory: 0

g. Funded, Not in Inventory: (FY-87) 60,540 SF

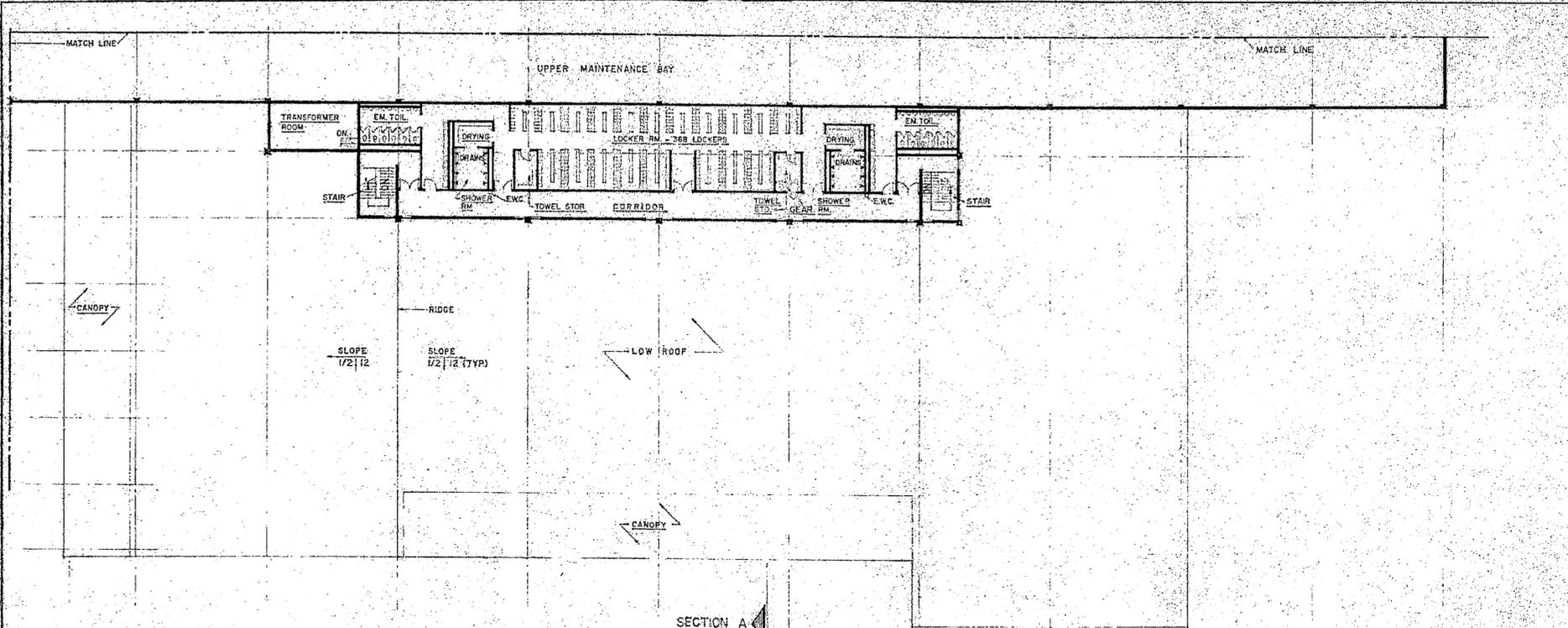


1. COMPONENT MARINE CORPS	FY 19 <sup>89</sup> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 July 1985												
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542														
4. PROJECT TITLE FIELD MAINTENANCE COMPLEX (INCREMENT #3)		5. PROJECT NUMBER P-804												
<table border="1"> <thead> <tr> <th data-bbox="467 428 639 457"><u>NAVFAC Dwg</u></th> <th data-bbox="808 428 993 457"><u>Description</u></th> <th data-bbox="1175 428 1295 457"><u>Area SF</u></th> </tr> </thead> <tbody> <tr> <td data-bbox="506 491 623 520">1294490</td> <td data-bbox="711 491 1149 554">Combat/Automotive/Track Fld Maintenance Shop</td> <td data-bbox="1192 491 1295 520">53,000</td> </tr> <tr> <td data-bbox="506 588 623 617">1294508</td> <td data-bbox="711 588 1133 617">Vehicle Inspection Station</td> <td data-bbox="1208 588 1312 617">7, 540</td> </tr> <tr> <td></td> <td data-bbox="1052 617 1133 646">Total</td> <td data-bbox="1192 617 1360 646">60, 540 SF</td> </tr> </tbody> </table> <p data-bbox="474 680 1230 714">h. <u>Adequate Assets</u>: (e + f + g) = 60, 540 SF</p> <p data-bbox="474 747 1068 781">i. <u>Deficiency</u>: (b - h) = 382,060 SF</p> <p data-bbox="315 814 1036 848">14. <u>Maintenance Facilities</u>: Not applicable.</p> <p data-bbox="315 877 1344 911">15. <u>Morale, Welfare and Recreation Facilities</u>: Not applicable.</p> <p data-bbox="315 940 1019 974">16. <u>Relocation Facilities</u>: Not applicable.</p> <p data-bbox="315 1003 971 1037">17. <u>Storage Facilities</u>: Not applicable.</p> <p data-bbox="315 1066 1474 1171">18. <u>Hazard Identification, Assessment, and Analysis</u>. Proposed facility will be a Motor Transport School facility. The following potential hazardous conditions will be considered during the design phase:</p> <ul style="list-style-type: none"> <li data-bbox="474 1201 766 1234">a. Exhaust fumes.</li> <li data-bbox="474 1264 847 1297">b. Battery acid fumes.</li> <li data-bbox="474 1327 896 1360">c. Gasoline/diesel fumes.</li> </ul>			<u>NAVFAC Dwg</u>	<u>Description</u>	<u>Area SF</u>	1294490	Combat/Automotive/Track Fld Maintenance Shop	53,000	1294508	Vehicle Inspection Station	7, 540		Total	60, 540 SF
<u>NAVFAC Dwg</u>	<u>Description</u>	<u>Area SF</u>												
1294490	Combat/Automotive/Track Fld Maintenance Shop	53,000												
1294508	Vehicle Inspection Station	7, 540												
	Total	60, 540 SF												

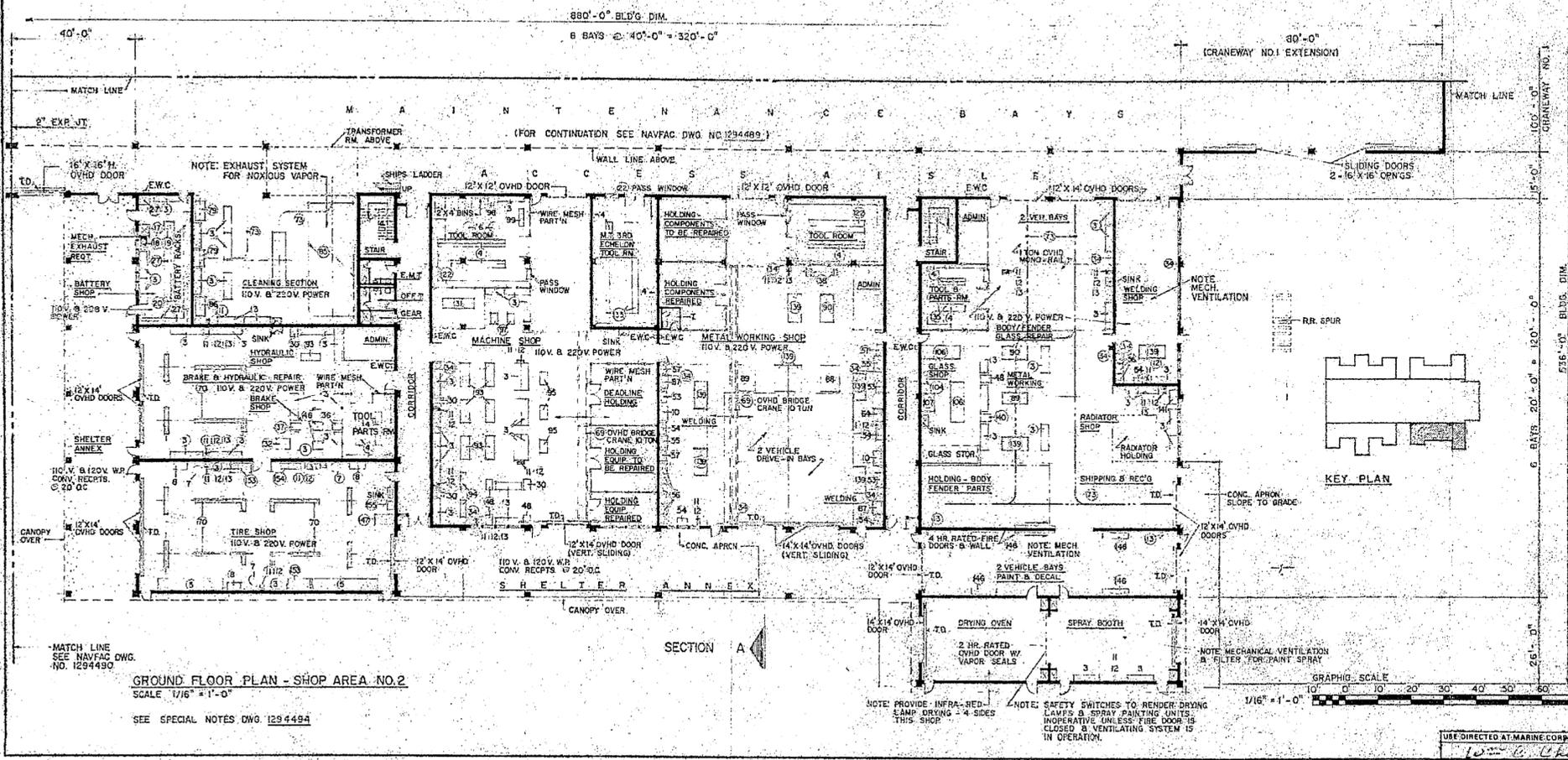








SECOND FLOOR PLAN - SHOP AREA NO. 2  
SCALE 1/16" = 1'-0"



GROUND FLOOR PLAN - SHOP AREA NO. 2  
SCALE 1/16" = 1'-0"

SEE SPECIAL NOTES DWG. 1294494

PLUMBING REQUIREMENTS

COLD WATER:	(PROBABLE MAXIMUM FLOW RATE IN GPM)	1CB
HOT WATER:		
STORAGE IN GALLONS (CONVERTORS)		346
HOT WATER RECOVERY (GPH)		558

NOTE: ABOVE FLOW RATE DOES NOT INCLUDE REQUIREMENTS FOR FIRE PROTECTION PROCESS AND AIR CONDITIONING.

MECHANICAL REQUIREMENTS

HEATING (IN MBTU/HR):		60° F. - SHOPS
INSIDE DESIGN TEMPERATURE	-5°F	70° F. - OFFICE & TOILETS
OUTSIDE DESIGN TEMPERATURE	136.0	180.5
	184.0	146.0

AIR CONDITIONING (TONS OF REFRIGERATION): MAX  
INSIDE DESIGN TEMPERATURE: SEE SPECIAL NOTES III, NAVFAC DWG. 1294494  
OUTSIDE DESIGN TEMPERATURE: 95° EOB, - 70° FWB

MECHANICAL VENTILATION SHALL BE PROVIDED FOR BATTERY SHOP

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE, ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

ELECTRICAL REQUIREMENTS

LIGHTS:		
CONNECTED LOAD (KW)	64	
ESTIMATED DEMAND (KW)	64	

POWER:	WITH AC MAX. CAP.	WITHOUT AC
CONNECTED LOAD (KW)	275	275
ESTIMATED DEMAND (KW)	208	208

TOTAL:		
CONNECTED LOAD (KW)	339	339
ESTIMATED DEMAND (KW)	270	270

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE, ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

AREA:	
GROSS AREA WITHOUT MECH. EQUIP. RM. (SQ. FT.)	
MCH. EQUIP. ROOM (SQ. FT.)	
GROSS AREA - TOTAL (SQ. FT.)	47,570

GENERAL NOTES

UTILITIES REQUIREMENTS INDICATED ARE FOR ESTIMATING PURPOSES ONLY  
AUTOMATIC SPRINKLER AND FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT D.O.D. 4270.1-M, CONSTRUCTION CRITERIA MANUAL AND NAVFAC DM-B.  
MARINE CORPS ACTIVITIES SHALL FOLLOW THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED IN INITIATION OF CONSTRUCTION REQUIREMENTS UNLESS PRIOR AUTHORIZATION FOR CHANGE IS OBTAINED FROM THE COMMANDANT OF THE MARINE CORPS. ARCHITECTURAL TREATMENT AND MATERIAL MAY VARY WHEN NEEDED TO ACHIEVE COMPATIBILITY WITH LOCAL CONSTRUCTION AND EFFECTIVE USE OF MATERIALS.

P-804 FY-89  
FIELD MAINTENANCE COMPLEX (INCR 3)

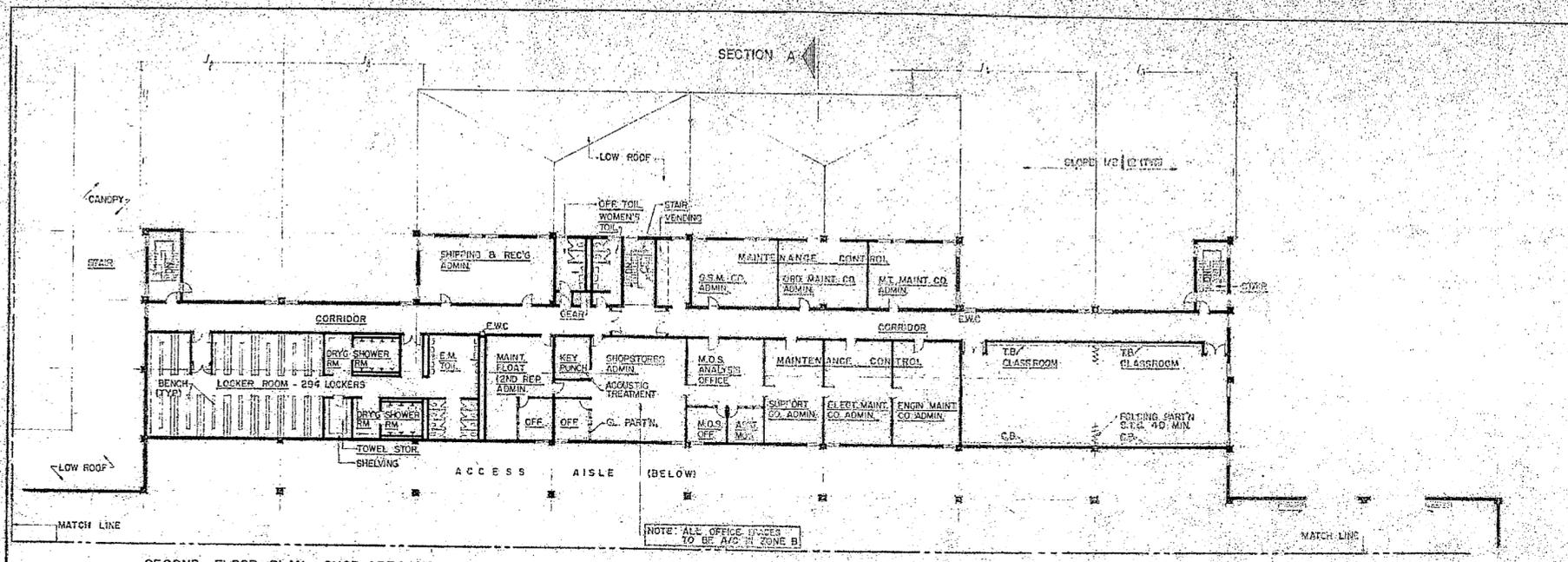
720 M-3248  
WASHINGTON, D.C.

NAVAL FACILITIES ENGINEERING COMMAND  
COMBAT/AUTOMOTIVE TRACK  
FIELD MAINTENANCE SHOP (NO. 2)  
MAINTENANCE BATTALION, F.S.R.

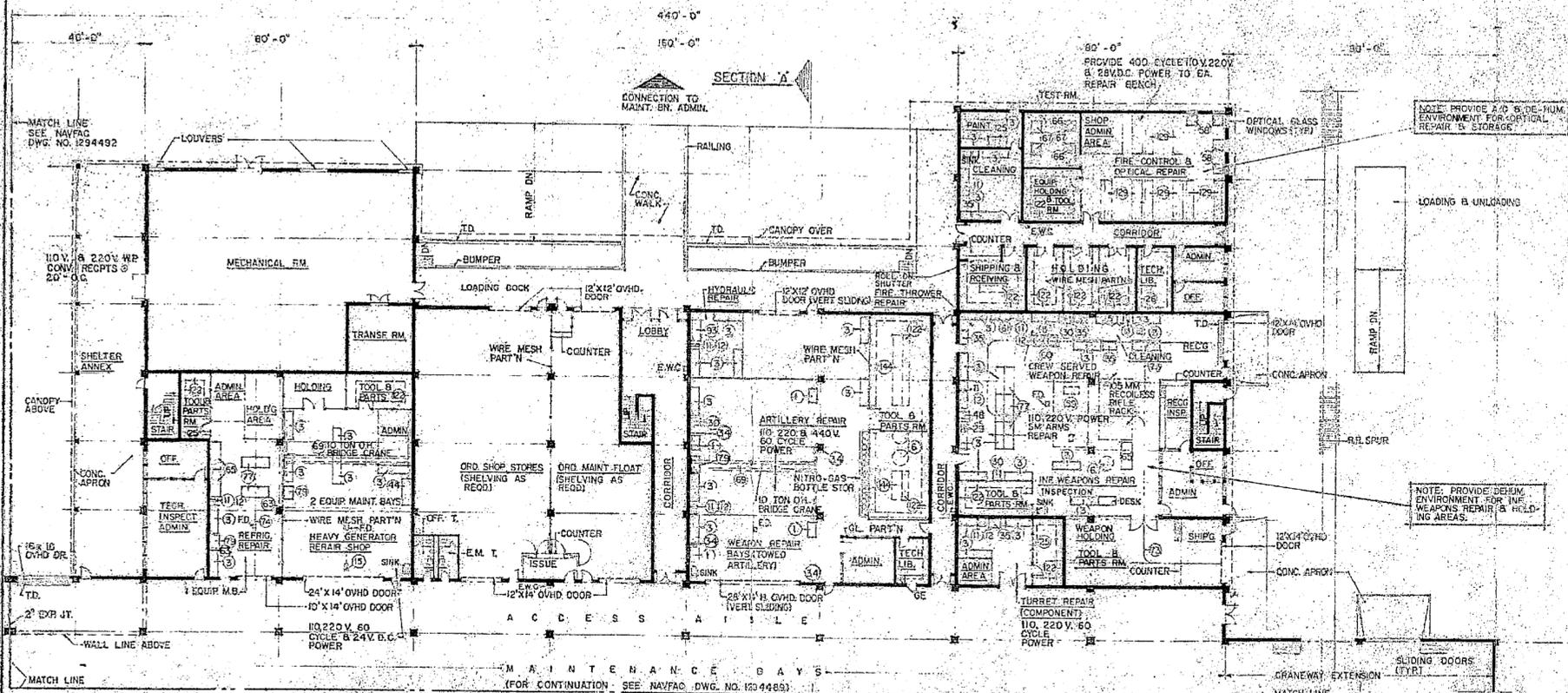
DEFINITIVE DRAWING  
NAVFAC DRAWING NO. 1294494  
80091

USE DIRECTED AT MARINE CORPS ACTIVITIES  
214-53-03



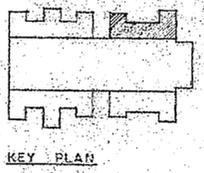


SECOND FLOOR PLAN - SHOP AREA NO. 4  
SCALE 1/16" = 1'-0"



GROUND FLOOR PLAN - SHOP AREA NO. 4  
SCALE 1/16" = 1'-0"

- NOTES:
1. PROVIDE 2 TEST FIRE PITS FOR SMALL ARMS TESTING, ADJACENT TO MAINT. FACILITY
  2. DRAIN ALL TRENCH DRAINS TO AN OIL SEPARATOR
- SEE SPECIAL NOTES DWG. 1294494



KEY PLAN



**PLUMBING REQUIREMENTS**

COLD WATER (PROBABLE MAXIMUM FLOW RATE IN GPM)	100
HOT WATER STORAGE IN GALLONS (CONVERTORS)	755
HOT WATER RECOVERY (GPH)	560

NOTE: ABOVE FLOW RATE DOES NOT INCLUDE REQUIREMENTS FOR FIRE PROTECTION, PROCESS, AND AIR CONDITIONING.

**MECHANICAL REQUIREMENTS**

HEATING (IN MBTU/HR):	60° F - SHOPS	70° F - OFFICE	8° TOILETS
INSIDE DESIGN TEMPERATURE	-5° F	+5° F	+25° F
OUTSIDE DESIGN TEMPERATURE	2200	2040	1850
AIR CONDITIONING (TONS OF REFRIGERATION):	MAX.		
INSIDE DESIGN TEMPERATURE	SEE SPECIAL NOTES IN NAVFAC DWG. 1294494		
OUTSIDE DESIGN TEMPERATURE	94° F DB, 76° F WB		

**ELECTRICAL REQUIREMENTS**

LIGHTS		
CONNECTED LOAD (KW)	58	
ESTIMATED DEMAND (KW)	68	
POWER	WITH AC MAX. CAP. WITHOUT AC	
CONNECTED LOAD (KW)	261	130
ESTIMATED DEMAND (KW)	196	98
TOTAL		
CONNECTED LOAD (KW)	327	196
ESTIMATED DEMAND (KW)	262	164

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.C.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

AREA	
GROSS AREA WITHOUT MECH. EQUIP. RM. (SQ. FT.)	48,000
MECH. EQUIP. ROOM (SQ. FT.)	4,800
GROSS AREA-TOTAL (SQ. FT.)	52,800

**GENERAL NOTES**

UTILITIES REQUIREMENTS INDICATED ARE FOR ESTIMATING PURPOSES ONLY.

AUTOMATIC SPRINKLER AND FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT D.C.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M AND NAVFAC DWG. 8.

MARINE CORPS ACTIVITIES SHALL FOLLOW THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED IN INTENTION OF CONSTRUCTION REQUIREMENTS UNLESS PRIOR AUTHORIZATION OF THE MARINE CORPS ARCHITECTURAL TREATMENT AND MATERIAL MAY VARY WHERE NEEDED TO ACHIEVE COMPATIBILITY WITH LOCAL CONSTRUCTION AND EFFECTIVE USE OF MATERIALS.

P-804 FY-89  
FIELD MAINTENANCE COMPLEX (INCR 3)

TITLE: SHOPS (ARTILLERY & WEAPON REPAIR) DRAWING NO.: 1294494 DATE: 12/15/88 DESIGNED BY: [Signature] CHECKED BY: [Signature] DRAWN BY: [Signature]	DEPARTMENT OF THE NAVY WASHINGTON, D.C. NAVAL FACILITIES ENGINEERING COMMAND DERIVATIVE DRAWING OF: ORDNANCE FIELD MAINTENANCE SHOP (NO. 4) MAINTENANCE BATTALION F.S.B.	T/O M - 3246 NAVFAC DRAWING NO. 1294493 BO091 214-53-05 & 215-60-B
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UNITED STATES MARINE CORPS  
2d Maintenance Battalion  
2d Force Service Support Group (Rein)  
Fleet Marine Force, Atlantic  
Camp Lejeune, North Carolina 28542-5704

IN REPLY REFER TO:

11000  
4/M/sh  
24 Jan 85

*THIS GIVEN AT PREVIOUS  
MEETING WITH AFG  
By LT. NAZAROFF  
29 JAN 85*

From: Commanding Officer  
To: Commanding General, Marine Corps Base, Camp Lejeune  
(Attn: AC/S, Fac)  
Via: Commanding General, 2d Force Service Support Group  
(Attn: Engr Spt)

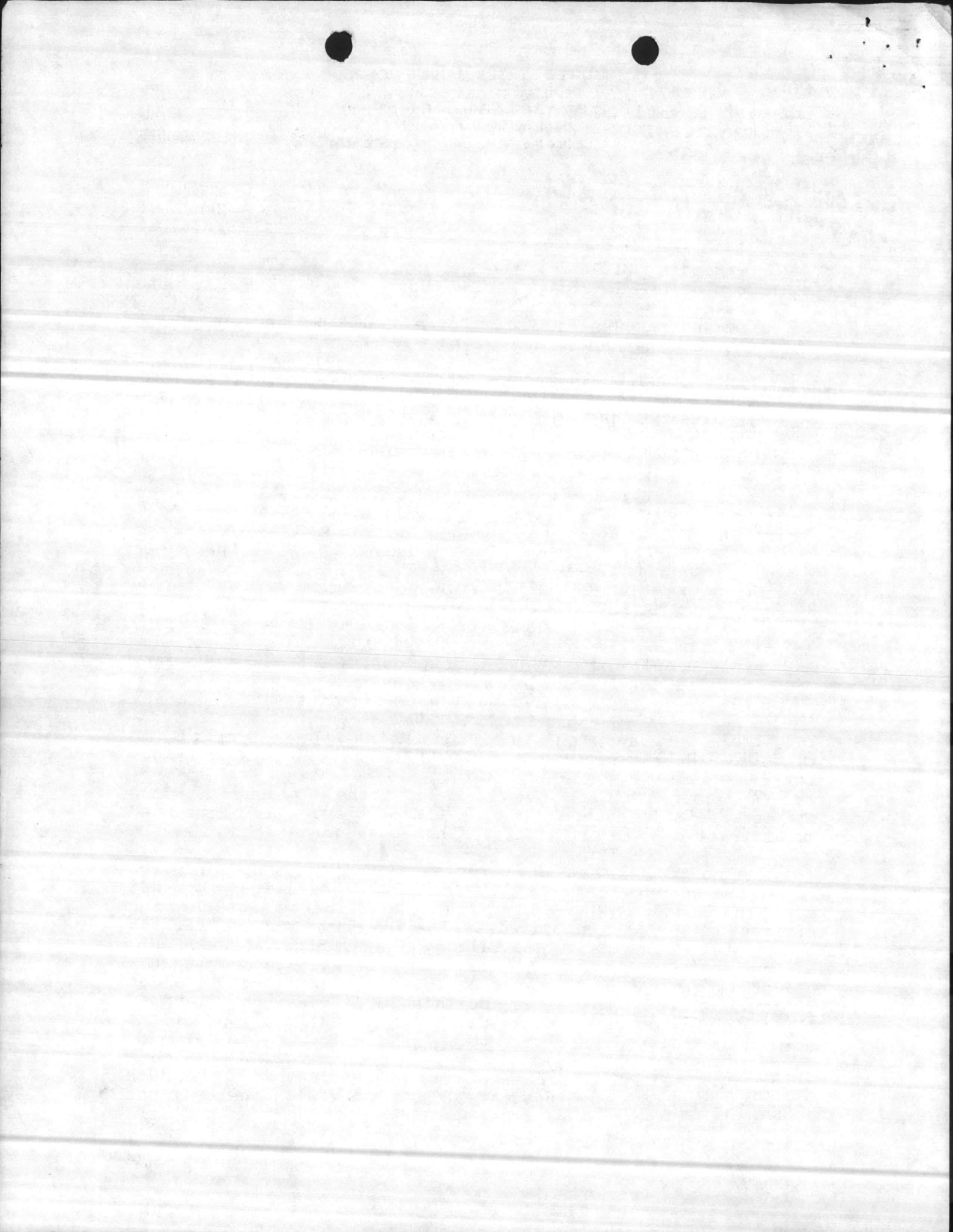
Subj: RECOMMENDED CHANGES TO PROPOSED INTERMEDIATE MAINTENANCE FACILITIES PREPARED BY NAVAL FACILITIES ENGINEERING COMMAND CODE ID NO. 80091 DTD 13MAR71

- Encl: (1) Overlay for Supply/Armory/NBC to NAVFAC drawing No. 1294466  
(2) Overlay for MMU to NAVFAC drawing No. 1294489  
(3) Overlay for ELMACO to NAVFAC drawing No. 1293356  
(4) ELMACO notes to NAVFAC drawing No. 1293356  
(5) Overlay for Engineer Maintenance Company to NAVFAC drawing No. 1294492  
(6) Overlay for General Support Maintenance Company to NAVFAC drawing No. 1294490  
(7) Overlay for General Support Maintenance Company to NAVFAC drawing No. 1294491  
(8) Overlay for General Support Maintenance Company to NAVFAC drawing No. 1294492  
(9) Overlay for Motor Transport Maintenance Company to NAVFAC drawing No. 1294491  
(10) Overlay for Ordnance Maintenance Company to NAVFAC drawing No. 1294493

1. A comprehensive review of the planned field intermediate-maintenance shop (IMA), and all related administrative storage facilities has been conducted.

a. The plans that were reviewed/analyzed were prepared during the March 1971 time frame. The facilities were designed at a time when force-level maintenance actions and services were either provided by the Division Service Battalion or the Maintenance Battalion, Force Service Regiment. The subsequent consolidation of all intermediate-maintenance actions within the Maintenance Battalion and related Battalion reorganization necessitates certain modifications be made to better accommodate this Battalion's current operations and mission-related requirements.

b. The recommended changes are not believed to be more expensive than the cost estimates associated with the original



design. All changes are considered necessary in support of mission accomplishment, maintain Battalion organizational integrity, and enhance the overall performance of maintenance actions.

2. Battalion Headquarters. Existing plans (No related documentation) for the Headquarters show the headquarters element of this Command would occupy one wing of the Force Troops complex similar to NAVFAC drawing No. 4010106 and planned to be located in the vicinity of FC-566. The apparent justification for the location of the Battalion Headquarters in this specific area was that command and control elements of the Battalion should be collocated with personnel living spaces. While it is true several personnel assigned are billeted at FC-550, 555, and 560, the vast majority of this population are readily available at their assigned work spaces, on a day-to-day basis. A previous attempt to locate all company headquarters at FC-550, FC-555, and FC-560 proved to be ineffective because administrative activities were ultimately performed at the workspace. As a result, headquarters had to be relocated where maintenance actions are performed to provide better administrative services and to lessen the amount of wasted man-hours due to time-distance considerations. It is therefore strongly recommended that the Battalion Headquarters be relocated within the planned field maintenance shop (NAVFAC drawing No. 1294489). The facility was planned with second decks over shop areas #2 and #4. Shop area #3 has the capability of accomodating a second deck identical to shop area #4. This added space would provide the Battalion with enough spaces to accomodate the entire administrative functions of the Battalion Headquarters to include Headquarters and Service Company Headquarters. To justify the additional expenses for the construction of the second floor of shop area #3, the wing presently planned as Force Troops complex for Battalion Headquarters, similar to NAVFAC drawing No. 4010106, should be deleted in total and the funds and spaces transferred accordingly.

*AS PER C.G. MCB, BN HQ FOR 2d MAINT  
BN WILL REMAIN AS PLANNED. DO NOT  
LOCATE AT FIELD MAINT SHOP*

3. General Areas of the IMA Facility

a. The possibility of designing certain in-shop, work spaces in the modular, not permanently attached format would offer additional flexibility to personnel using the spaces. Changes in mission and equipment often require either additional or reconfigured spaces which would be more readily available with this type of semi-permanent structure. In building, relocatable, modular office-type spaces are therefore recommended for all tool/publications/maintenance control/cleanrooms.

b. General access to specific facilities/shop spaces must be reviewed to accomodate traffic from a tracked vehicle trail to the inspection station, to the Ordnance and Engineer sections of the IMA buildings, to a fenced-in lot for storage

STATE OF CALIFORNIA  
COUNTY OF LOS ANGELES

IN SENATE  
JANUARY 11, 1900

REPORT OF THE  
COMMISSIONERS OF THE LAND OFFICE

IN RESPONSE TO A RESOLUTION PASSED BY THE SENATE  
MAY 11, 1899

RELATIVE TO THE  
LANDS BELONGING TO THE STATE

AND TO THE  
LANDS BELONGING TO THE UNITED STATES

AND TO THE  
LANDS BELONGING TO THE FEDERAL GOVERNMENT

AND TO THE  
LANDS BELONGING TO THE NATIONAL GOVERNMENT

AND TO THE  
LANDS BELONGING TO THE STATE GOVERNMENT

AND TO THE  
LANDS BELONGING TO THE LOCAL GOVERNMENT

AND TO THE  
LANDS BELONGING TO THE PRIVATE INDIVIDUALS

RECEIVED  
JAN 11 1900  
STATE OF CALIFORNIA  
COMMISSIONERS OF THE LAND OFFICE

of equipment not required to be in the building while awaiting supply parts or the performance of maintenance. Some of these tracked vehicles mass weigh up to sixty tons. Concrete roadways/unimproved ground trails will be required.

c. A three-section, fenced security area in close proximity to the IMA should be identified to permit the storage of large Ordnance, Motor Transport, and Engineer equipment awaiting maintenance actions, as well as organic equipment storage.

d. The identification of parking plans for official visitors and POV's of Marines (about 900) reporting to work is also essential to the optimum management of traffic flow and safety.

4. Headquarters and Service Company. In its function of support to the IMA, Headquarters and Service Company has the following requirements which should be addressed in conjunction with the development of facilities for Maintenance Battalion on NAVFAC drawing No. 1294466:

a. Spaces identified for the Battalion Armory on NAVFAC drawing No. 1294466 are not considered adequate. Changes are addressed in enclosure (1).

b. The NBC section of the Battalion, not identified in any drawing, requires spaces arranged as shown in enclosure (1).

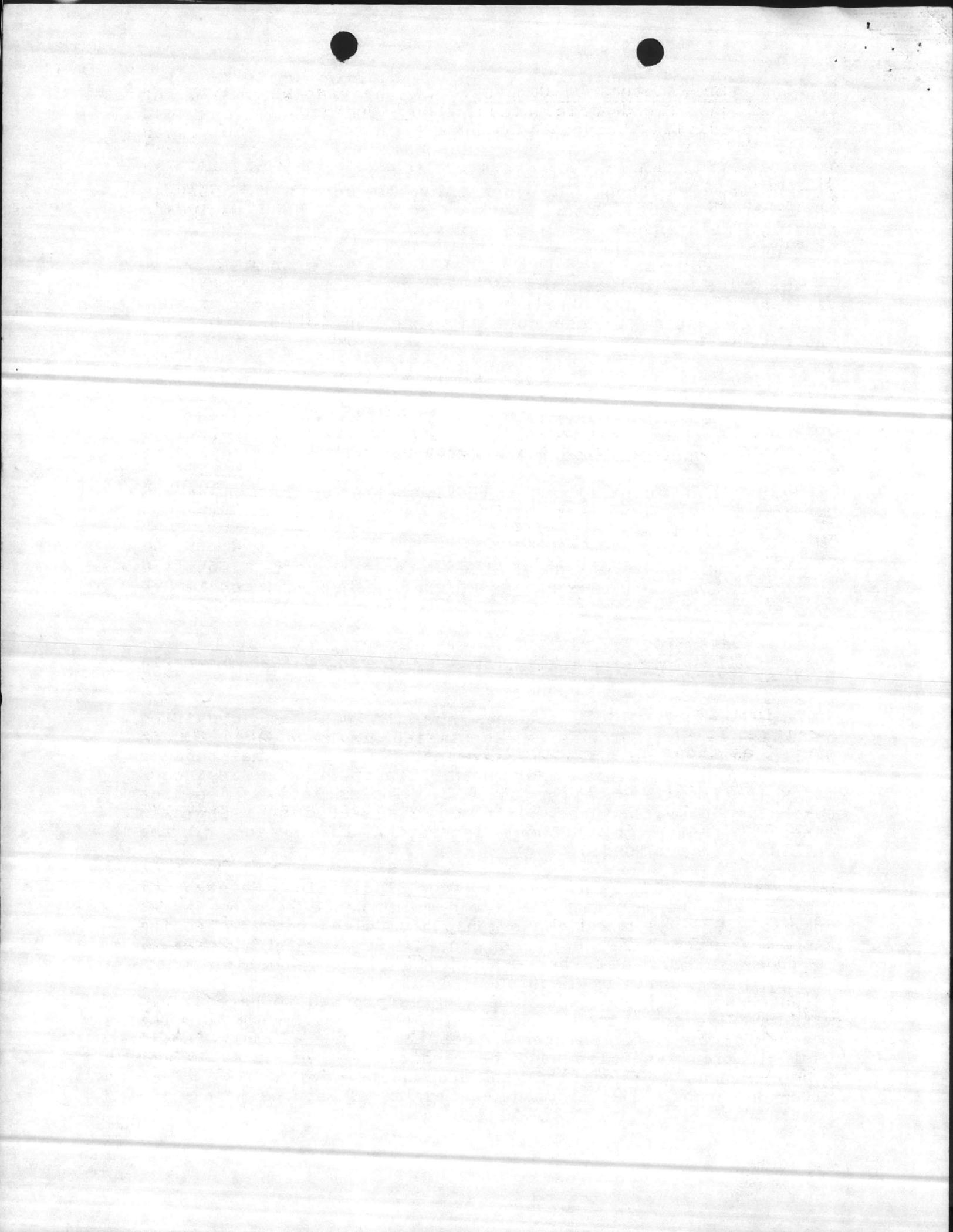
c. Battalion Supply on NAVFAC drawing No. 1294466 requires all other remaining spaces, arranged as shown in enclosure (1).

d. The MMU which supports the IMA was not identified on any drawing. The area identified in shop area #1 on NAVFAC drawing No. 1294489, enclosure (2), as maintenance float and shop stores for Motor Transport and Engineers meets the requirements for the MMU. The inclusion of office spaces (modular) and the addition of a second deck approximately 7 feet high, without increasing the height of the ceiling, is recommended.

5. ELMACO. All requirements for Electronics Maintenance Company will be met with the field maintenance shop on NAVFAC drawing No. 1293356 and the organic communications electronics shop presently being built on Sneeds Ferry Road. However, in order to make a better use of the spaces, the two wings of the first building mentioned should be modified as shown in enclosures (3) and (4). One wing is planned to be equipped with a five-ton crane. There is no requirement for the crane to have a thirteen foot clearance. Only small communications vehicles will be repaired in this area. Both wings should be modified to accomodate two decks and a five-ton crane with a maximum height of approximately 10 feet.

Maintenance Management Unit (MMU)  
THIS IS NOT COVERED IN DEFINITIVES  
AL AUSTIN SAYS THIS IS A DEFERRED  
REQUIREMENT (W/O 10/AR/85)

THIS IS BUG 1771, AL AUSTIN SAYS  
THIS BUG WILL REPORT TO ANOTHER  
BN (10TH MARINE) AFTER THIS SHOP  
IS COMPLETE



6. Engineer Maintenance Company. In the present configuration of the field maintenance shop, engineer maintenance spaces are divided between shop area #4, where heavy generator repair and refrigeration repair shops would be located and shop area #1, where "shop stores" have been located. To increase efficiency, it is recommended that Engineer Maintenance Company work areas be moved to shop area #3. The spaces required and other requirements are outlined in enclosures (2) and (5). The requirement for the crane that was identified in the heavy generator repair shop still remains valid in the new area assigned.

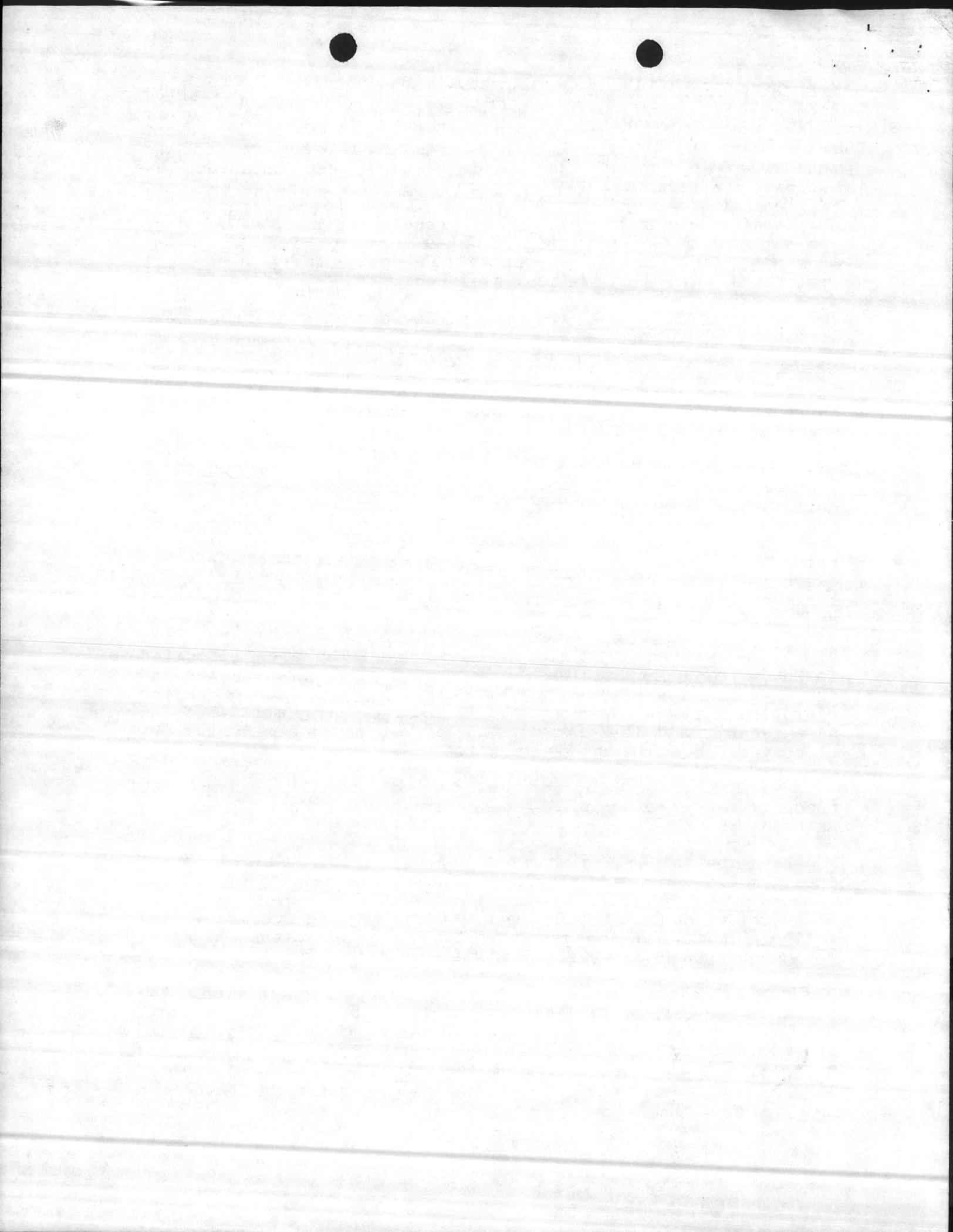
9. ?  
7. General Support Maintenance Company. Facilities are located in shop areas #1, 2, and 3. Shop #1 (NAVFAC drawing No. 1294490) remains unchanged, as shown in enclosure (b). It is recommended that shop area #2 (NAVFAC drawing No. 1294491) be reconfigured to accommodate the machine shop in the areas presently marked as battery racks and the draining section. The metal welding area should be relocated to the area identified at the tire shop, as shown in enclosure ~~(7)~~. The relocation of the preceding 2 shops is requested because this would (1) move the areas of General Support Maintenance Company closer to the other areas of General Support Maintenance Company and (2), consolidate Motor Transport Maintenance Company areas which are also located in shop #2. Shop area #3 (NAVFAC drawing No. 1294492) remains essentially the same except as shown in enclosure (8). Minor changes are required to accommodate relocation modular-type administrative spaces.

8. Motor Transport Maintenance Company. The area allocated to Motor Transport Maintenance Company in shop area #3 (NAVFAC drawing No. 1294491) remain essentially the same with the exception of the exchange of areas already mentioned in paragraph 7, and the installation of requested administrative spaces, as shown in enclosure (9).

a. The tire shop, not required in the IMA, should be reconfigured into organic storage spaces for Motor Transport Maintenance Company.

b. The inspection station (NAVFAC drawing No. 1294508) does not require any internal modifications. However, in support of that facility and the IMA, the provision of an adequate amount of wash racks (for tracked vehicles and rolling stock) equipped with plant account steam cleaning equipment should be built into the existing design.

c. In close proximity to the inspection station, the construction of a facility that would be used as an oil and hazardous material collection area is strongly recommended. Central control of these environmentally dangerous materials is strongly recommended for sound management practices.



9. Ordnance Maintenance Company. Essentially located in shop area #4 (NAVFAC drawing No. 1294493), Ordnance Maintenance Company requires the same spaces with the following recommended changes:

a. The fire control and optical repair shop should be constructed using the maximum amount of optical ground glass, as shown in enclosure (10). Natural light is considered best for optical adjustments.

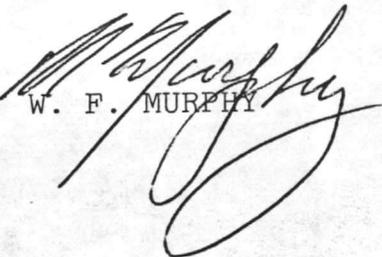
b. A LASER work area which should comply with current safety regulations is also recommended as shown in enclosure (10).

*WEAPON REPAIR*

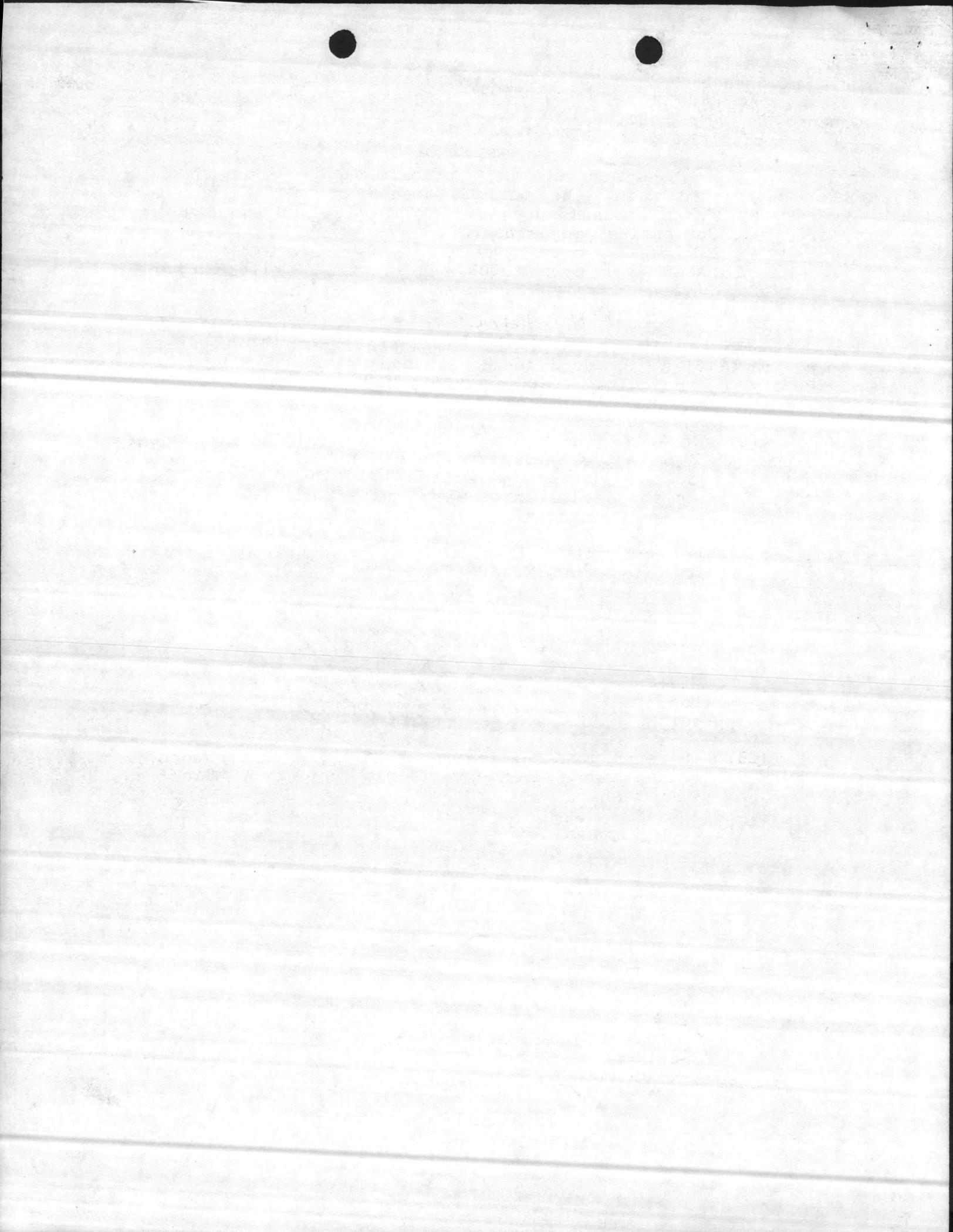
c. In the IW Repair area, the installation of separate head facilities is considered a requirement for optimum security by reducing traffic flow from the shops during working hours and after working hours for guards assigned to the IW Repair section.

10. It should be noted facilities have not been specifically identified for use by the Operational Readiness Float. In addition specific identification of male and female head facilities has not been made.

11. If additional information should be required, please contact First Lieutenant Nazaroff, Logistics Officer, Ext. 3989/5222.

  
W. F. MURPHY

Copy to:  
S-4, 2dMaintBn



ELMACO FACILITY

NAVFAC DRAWING NO. 1293356

- Notes:
- (1) Passageways and corridors 6' wide.
  - (2) CRYPTO repair and storage, tempest and security requirements with Class V door.
  - (3) Class III missile component storage area strong room security in accordance with SECNAVINST 5230.13.
  - (4) Electronics Maintenance, calibration, missile repair and micr/min require A/C and dehumidification.
  - (5) Shop office in Electronics Maintenance and calibration inner walls all glass above 40".
  - (6) Micro/min repair shielded, and entry air lock static discharge and dust retardant deck.
  - (7) Vehicle bay monorail overhead hoist to run length wise to bay.
  - (8) No. 400 Hz power required, if needed will use organic inverters.
  - (9) Outside power requirements: 30/5 wire wye w earth ground on 5th Pin of connector, as follows:

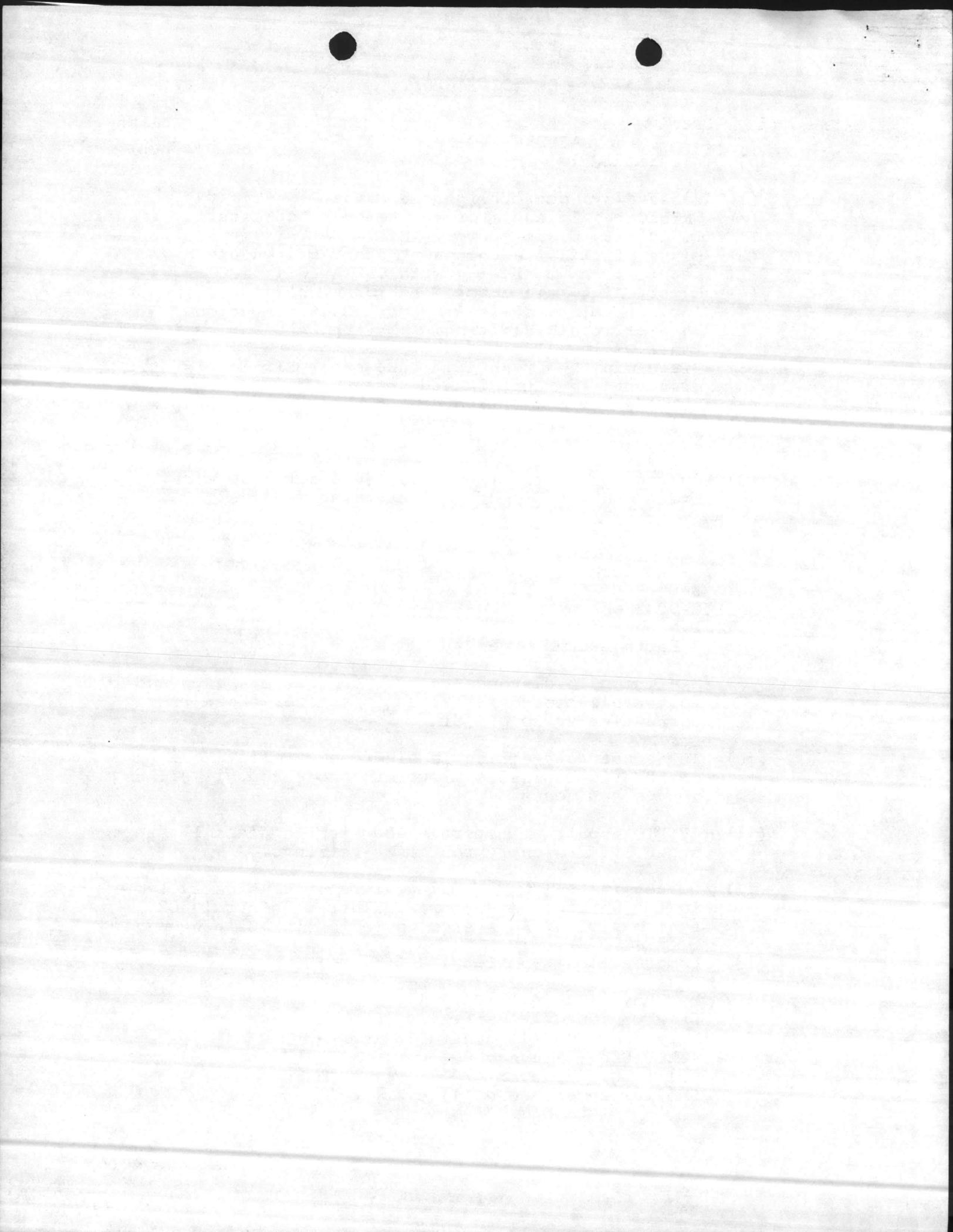
Pin

A-0A Black  
B-0B Red  
C-0C Blue  
D-N White  
E-Earth Ground Green

Minimum of 6 disconnects with two outlets each and 10 foot cable troughs provided in shelter annex running perpendicular to building.

- (10) 10' suspended ceiling in electronics maintenance, calibration, missile micro/min shops and all office spaces and heads.
- (11) CRYPTO repair and storage and missile class IV storage areas require entry resistant ceilings.
- (12) Do not install water deluge fire suspension system in the entire Company area. Install central CO2 system similar to system installed in building 1771.
- (13) Compressed air outlets as follows:  
M-T Bay: One (1) every 15'  
CRYPTO: One (1) centrally located  
Missile: One (1) centrally located  
C&E: One (1) every 20'  
Cal: One (1) every 20'  
Shelter Annex: One (1) every 30'

Enclosure (4)

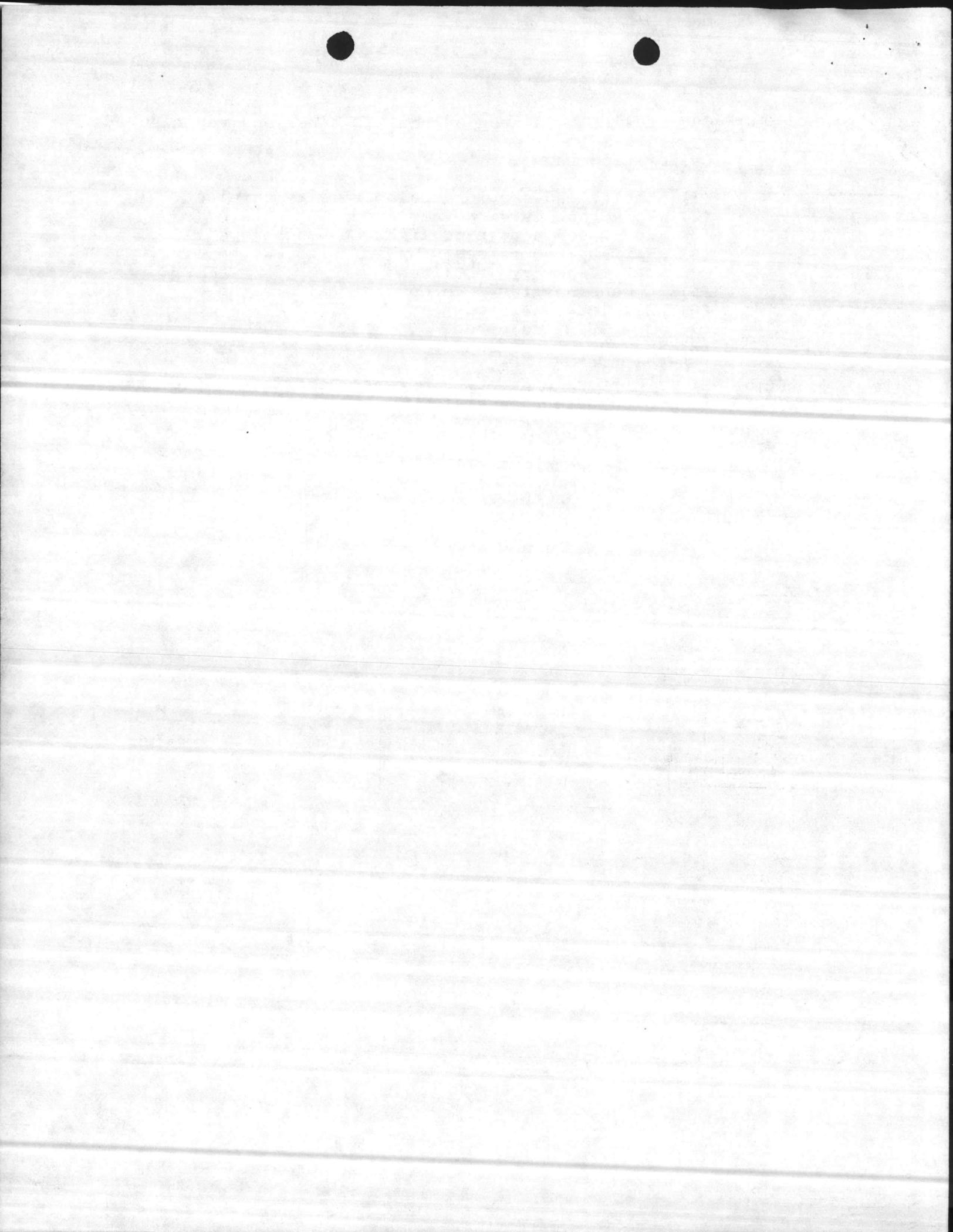


(14) Outside water in area of shelter annex and vehicle bay.

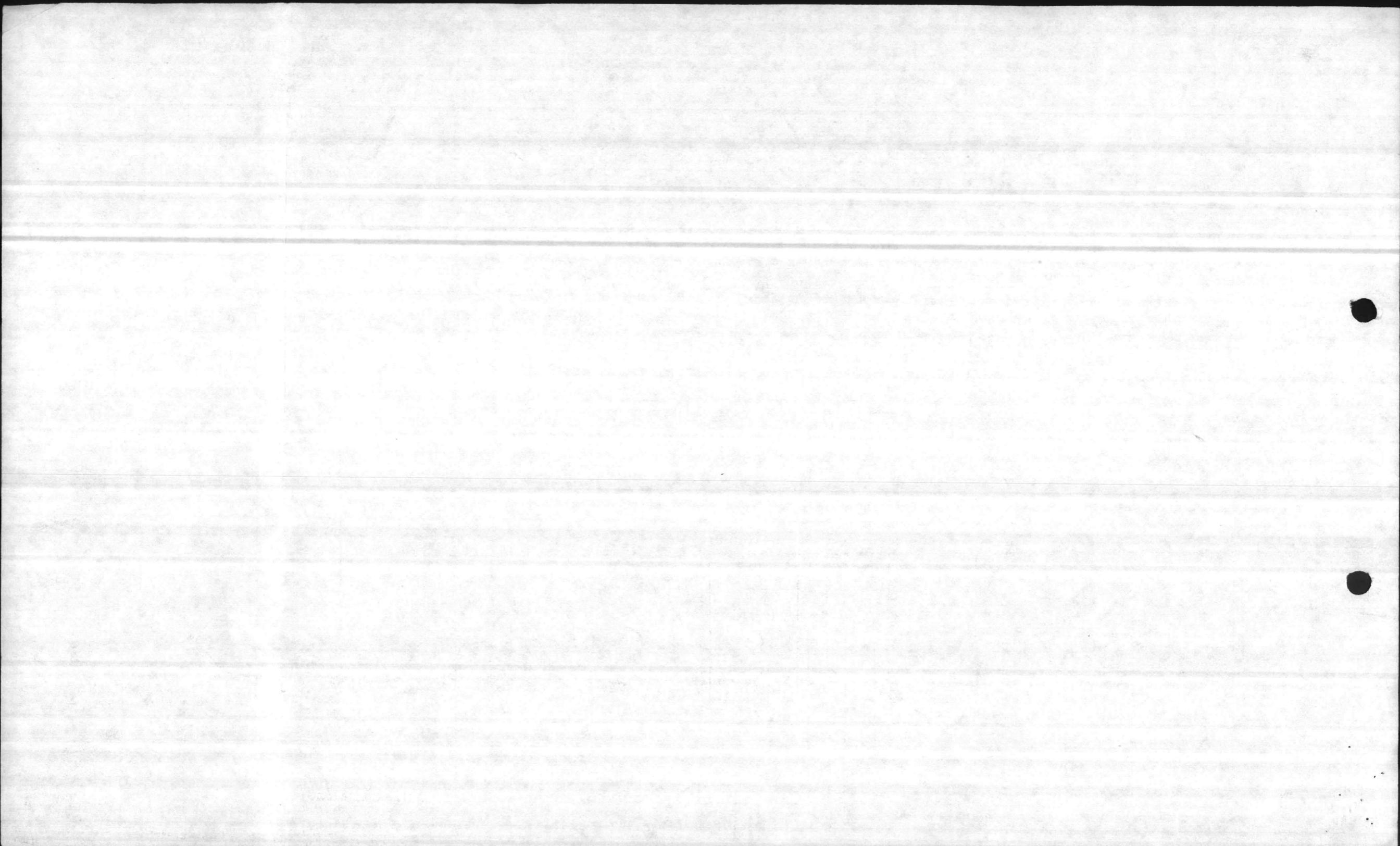
(15) Calibration Lab

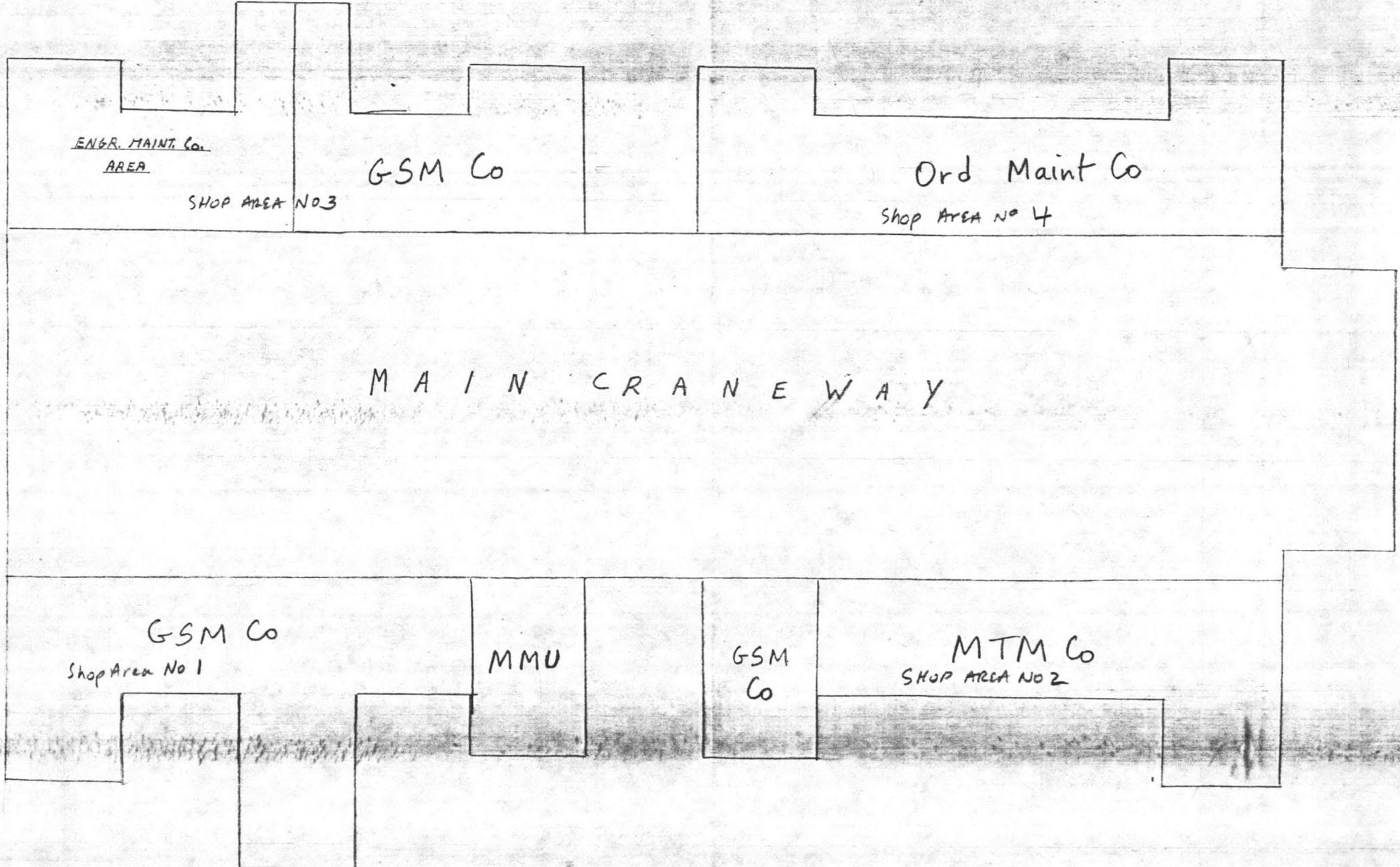
- (1) Entire lab should be electrically shielded.
- (2) Work benches wired for 6 duplex outlets.
- (3) 100 foot/candescent light at bench level.
- (4) Warm-up room w/shelving 18" high, with power outlets every 18" linear.
- (5) Clean room for mech/optical calibration.
- (6) Air lock entry way into shop.
- (7) No 28V DC required.
- (8) No 400 Hz required.

(16) Missile storage and CRYPTO repair entries be tied to intrusion detection system.









ENGR. MAINT. Co.  
AREA

SHOP AREA NO 3

GSM Co

Ord Maint Co

SHOP AREA NO 4

MAIN CRANEWAY

GSM Co

Shop Area No 1

MMU

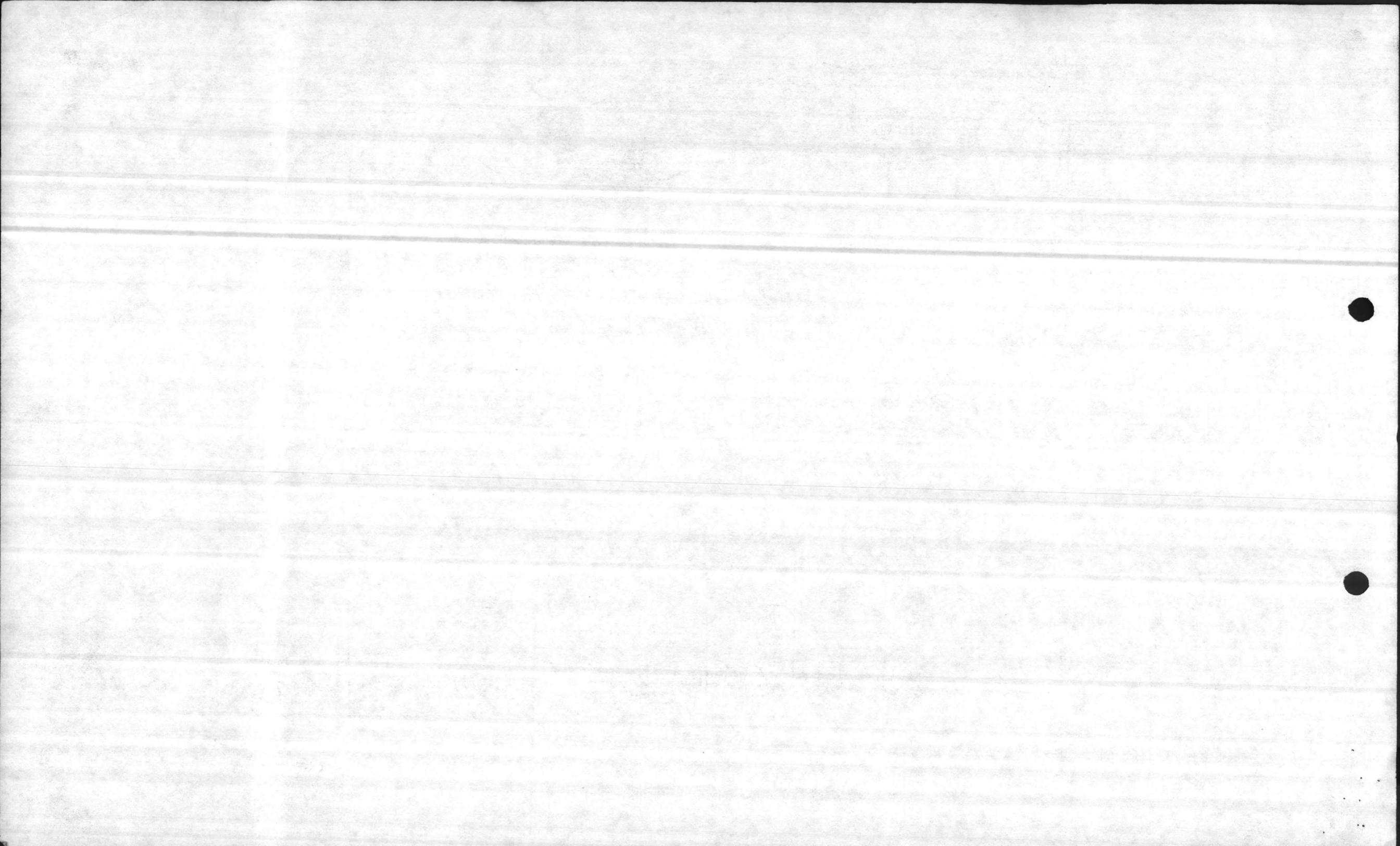
GSM Co

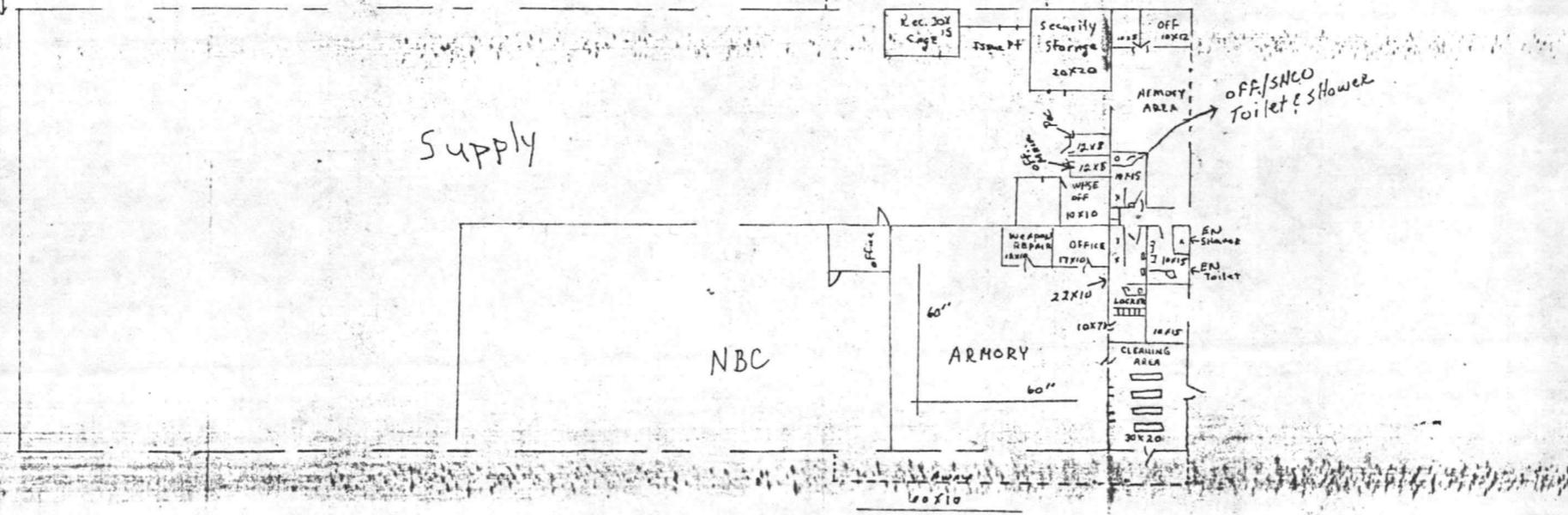
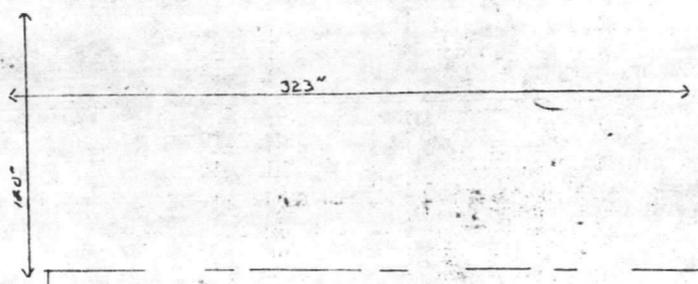
MTM Co

SHOP AREA NO 2

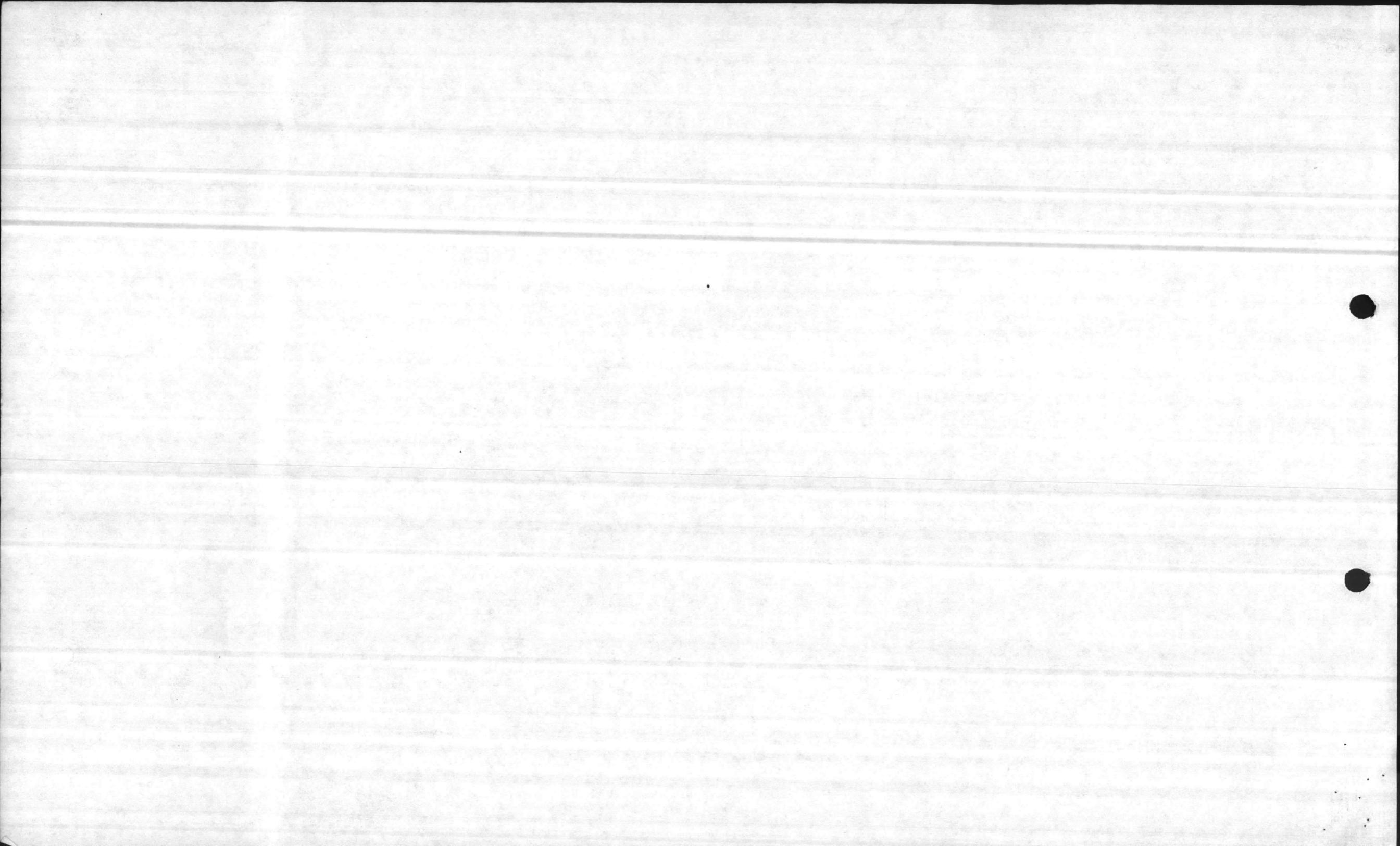
OVERLAY TO NAVFAC DRAWING  
NO. 1294489

ENCLOSURE (2)  
ENGR. MAINT Co.

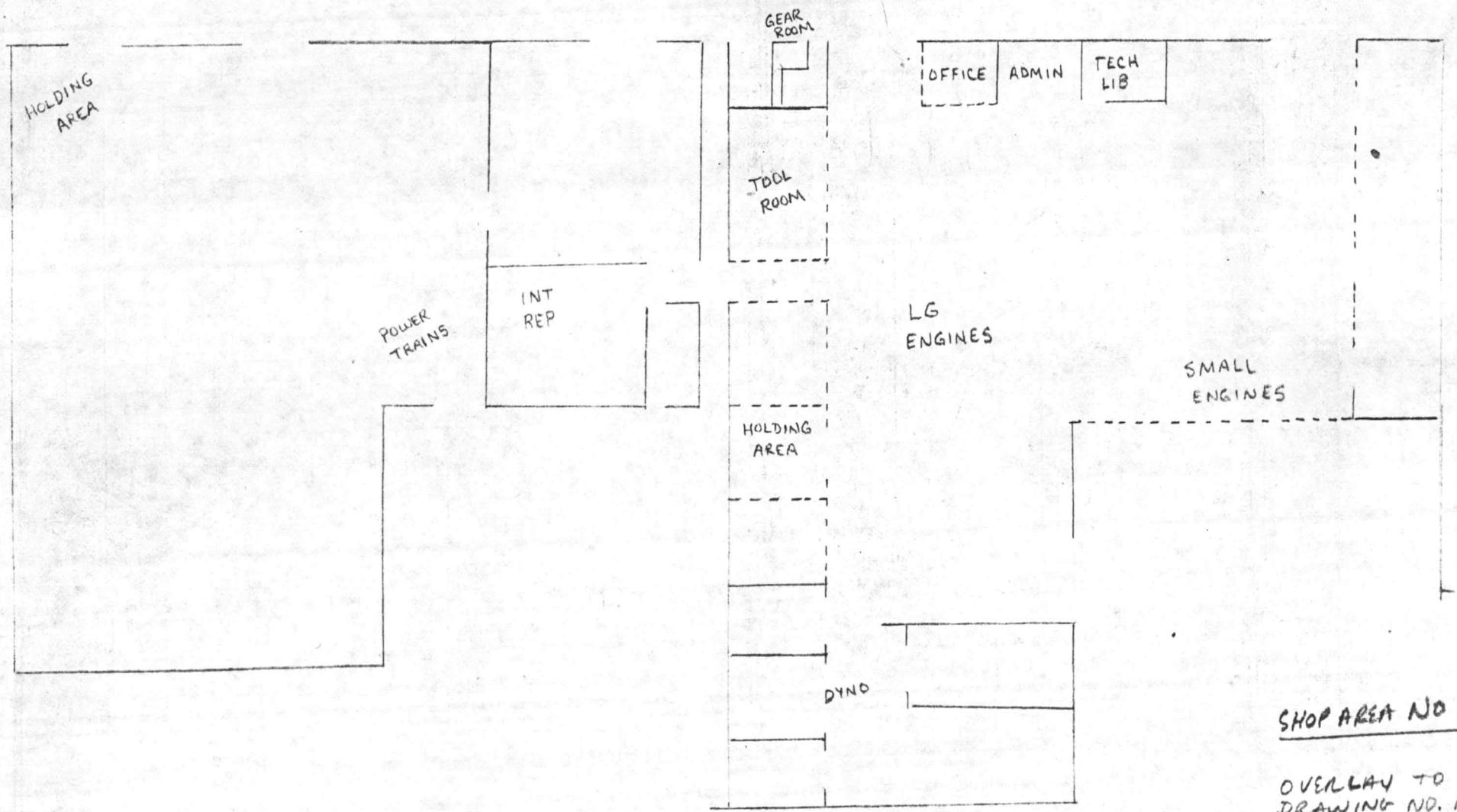




OVERLAY TO NAVFAC DRAWING  
NO. 1294466



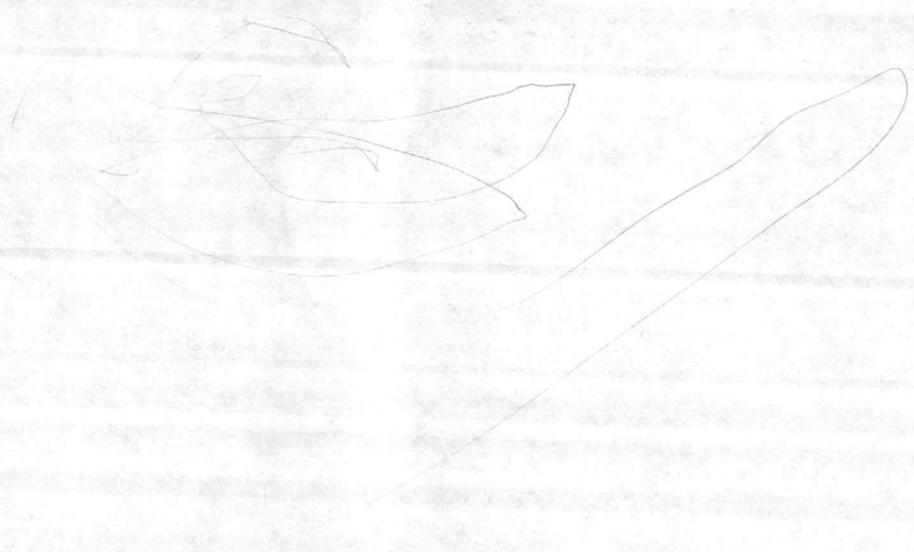
Encl(6)

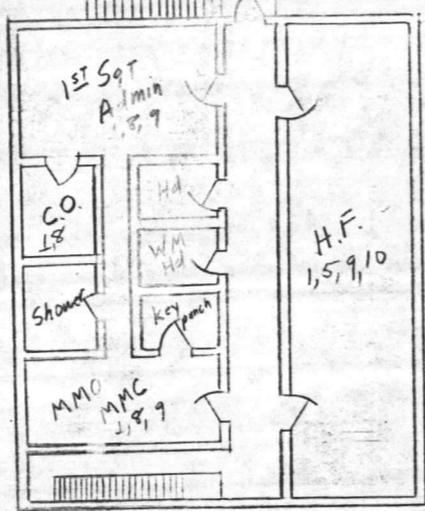


SHOP AREA NO 1

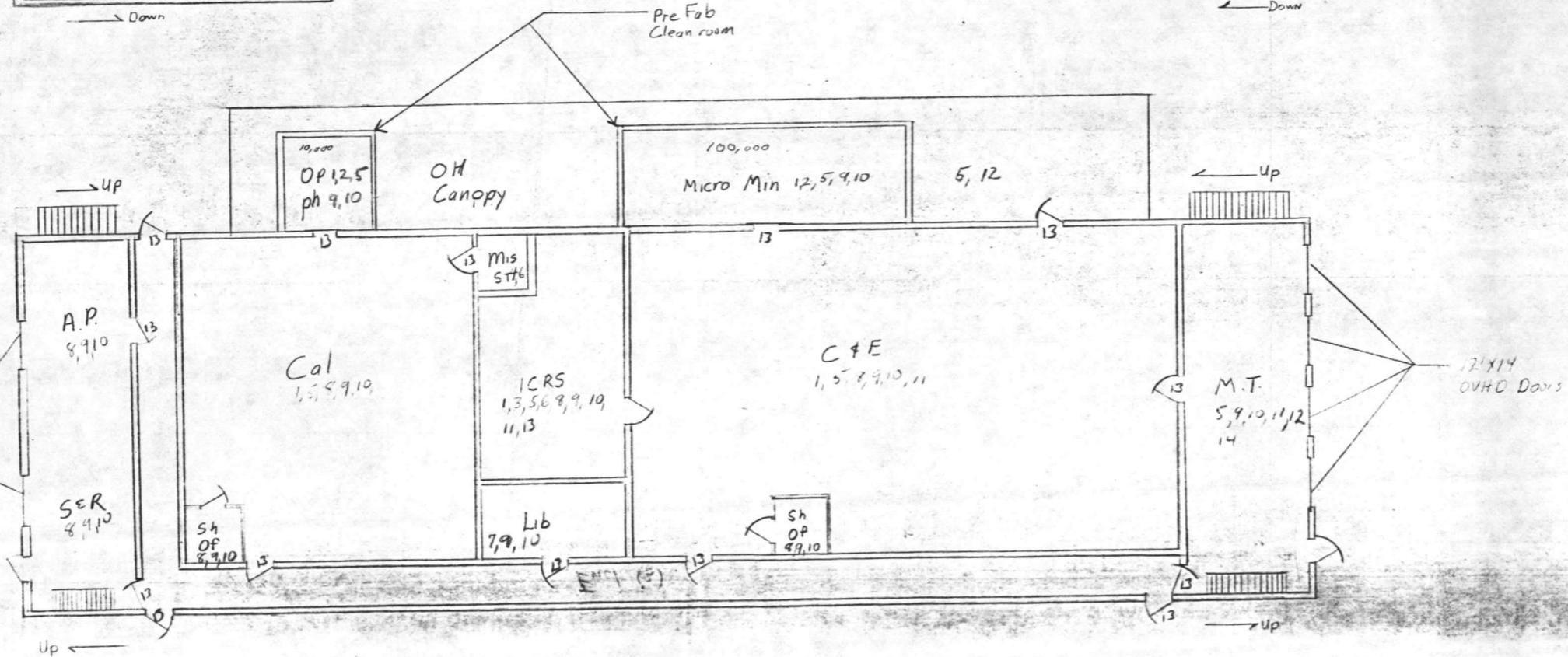
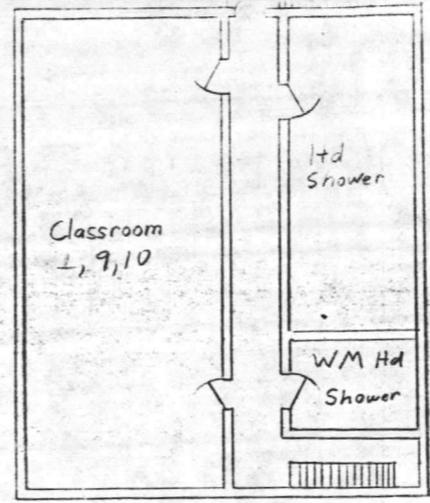
OVERLAY TO NAUFAC  
DRAWING NO. 1294490

Enclosure(6)





- 1 Dehum
- 2 ST Control
- 3 Security Class 5
- 4 Security Class 3
- 5 Compress Air
- 6 Entry Resistant Ceiling
- 7 Pass Bg
- 8 Phone key system
- 9 PA System
- 10 110 AC 60Hz
- 11 29VDC
- 12 Water
- 13 Security Door
- 14 4 Ton OH Crane



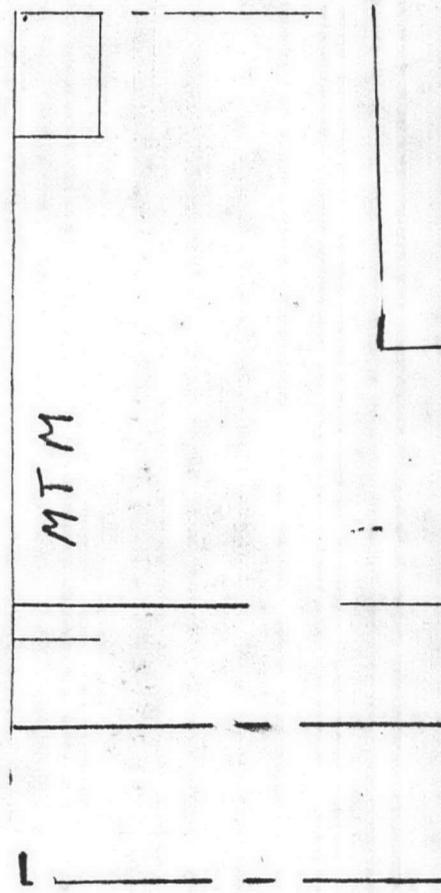
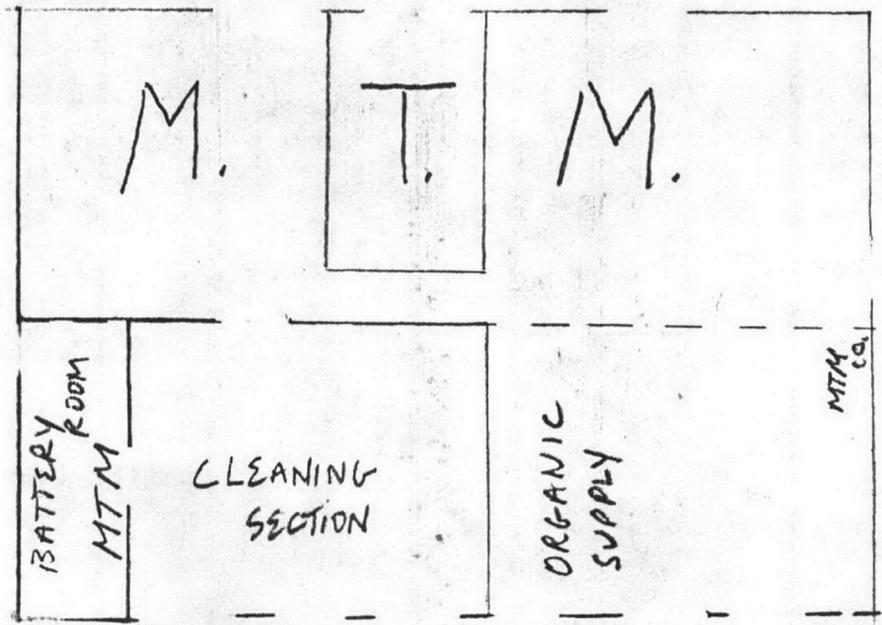
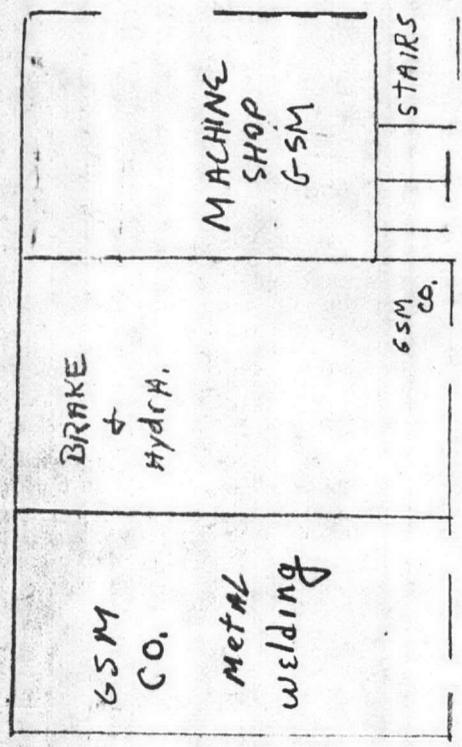
OVERLAY FOR ELMACO 70  
 NAVFAC DRAWING NO. 129 3356

Enclosure (2)

100

100

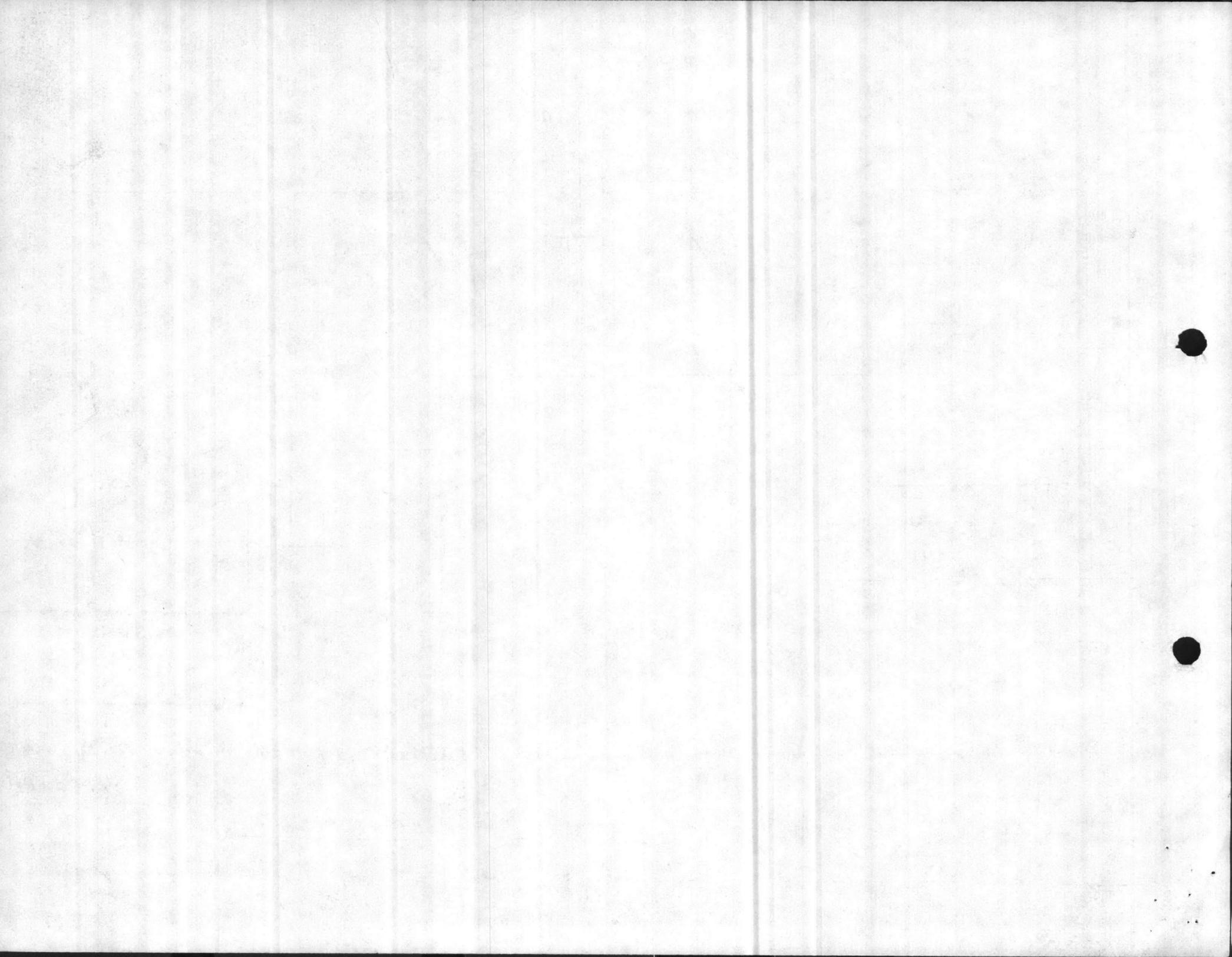




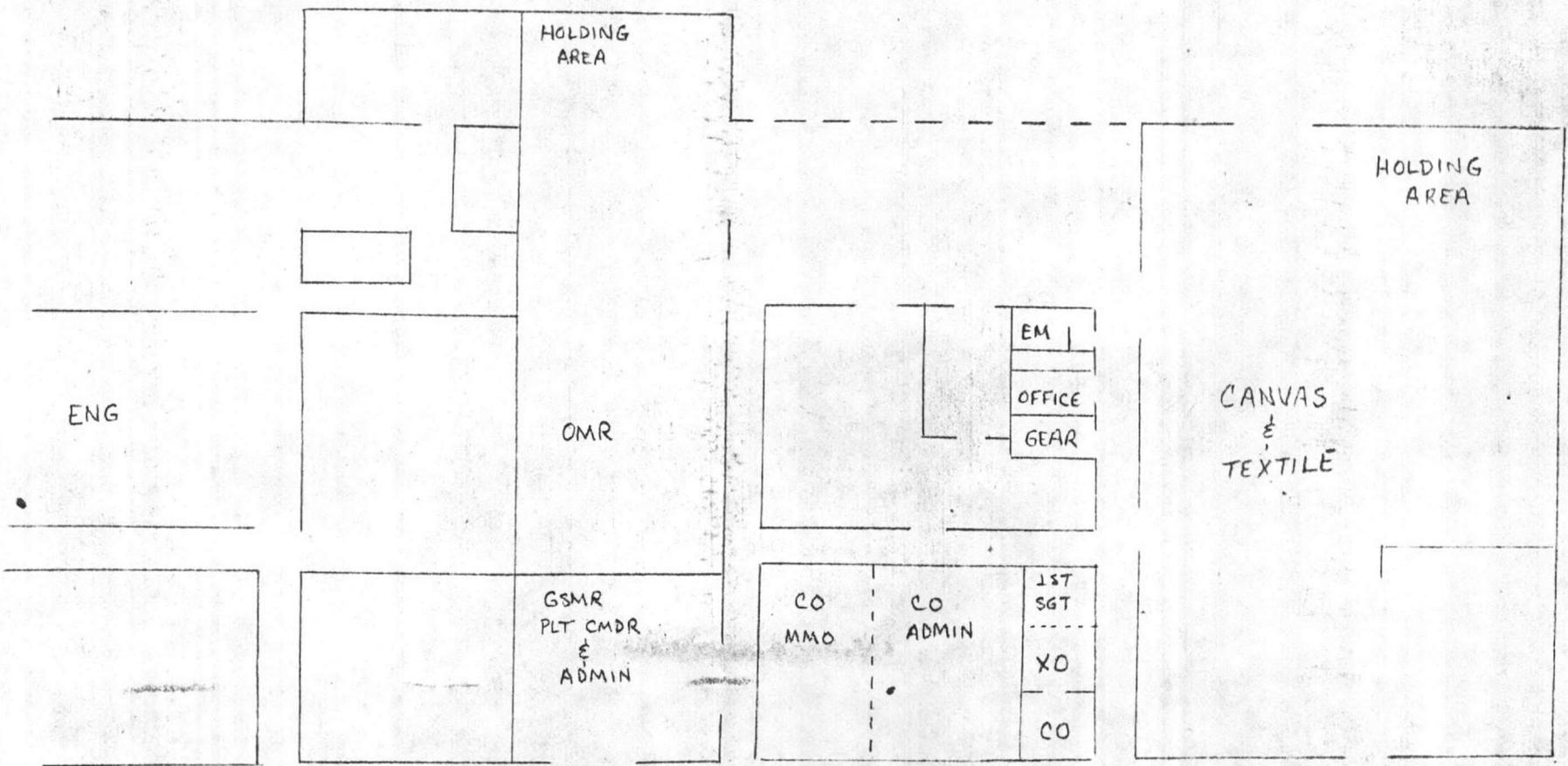
OVERLAY TO NAVFAC DRAWING NO. 1294491

ENCLOSURE(7)

SHOP AREA NO 2



smile

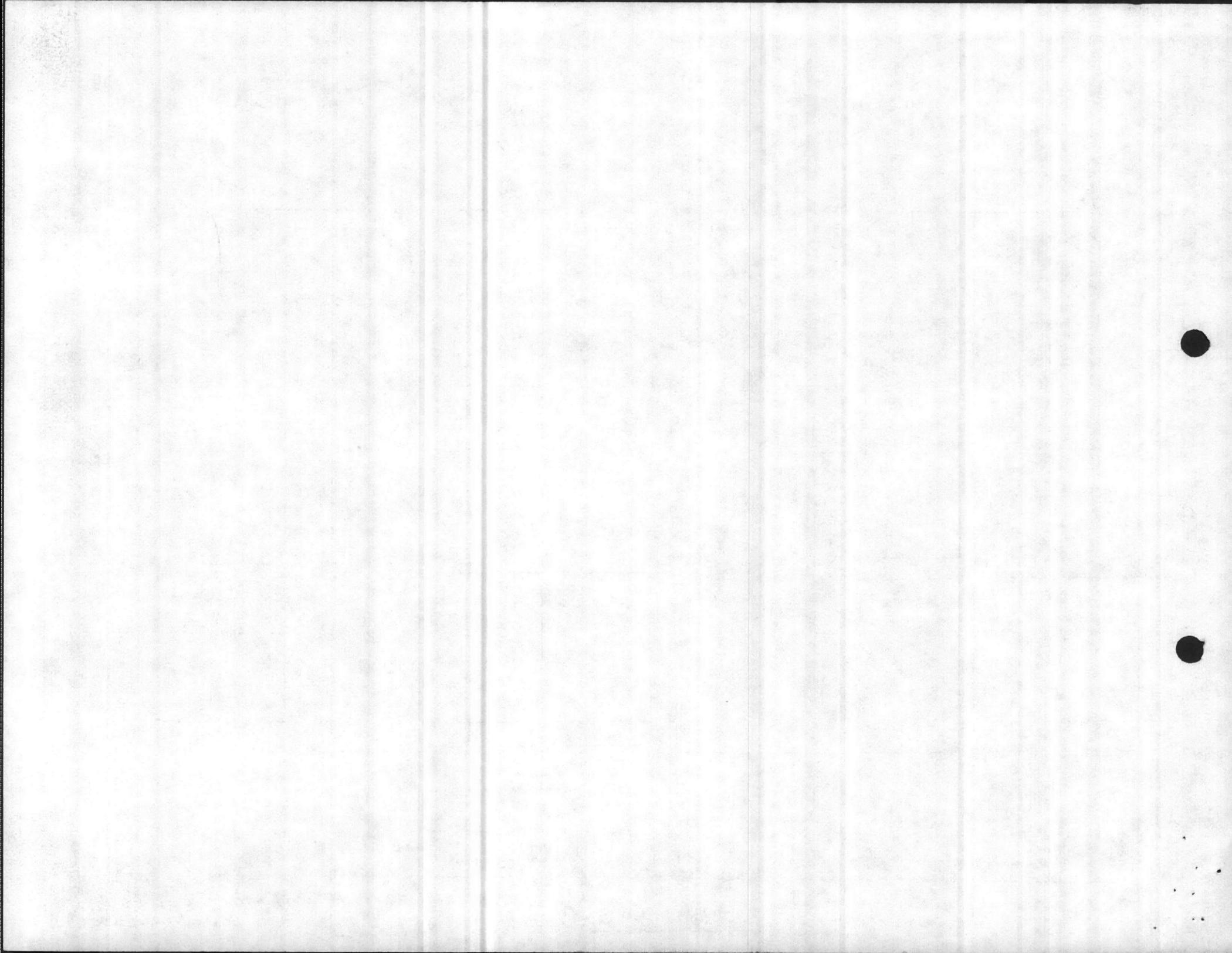


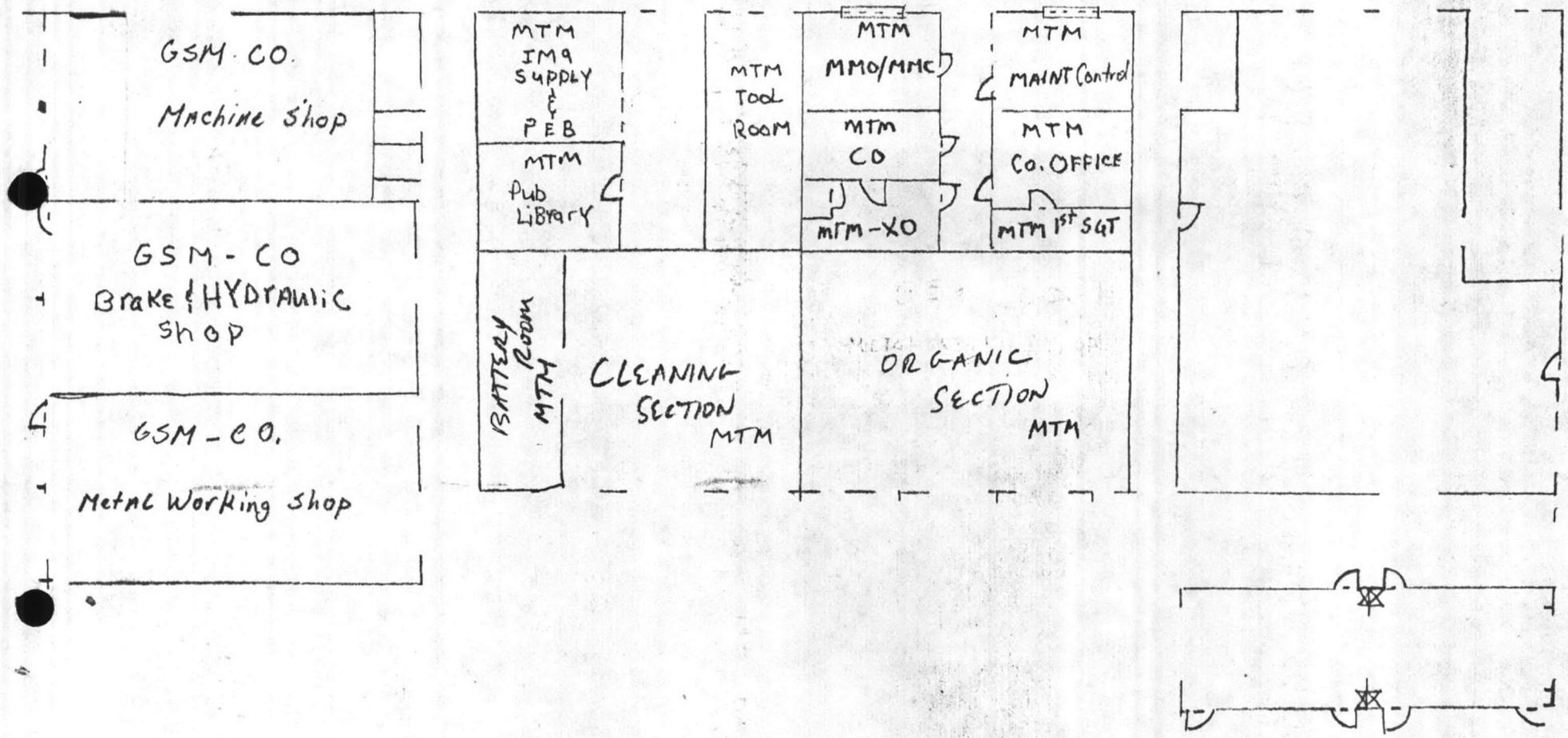
SHOP AREA NO 3

OVERLAY TO NAVFAC DRAWING

NO. 1294492

Enclosure (8)

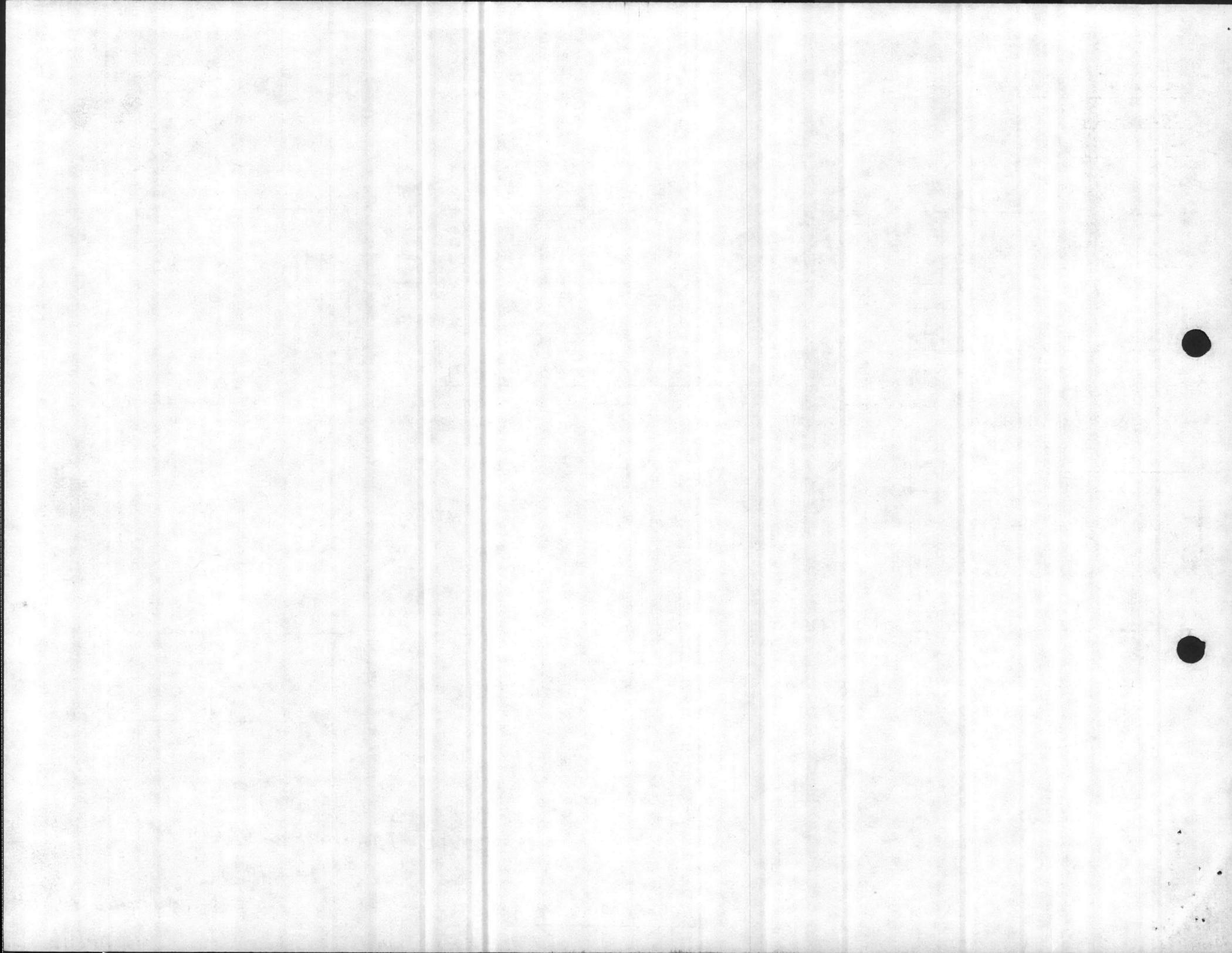




OVERLAY TO NAVFAC DRAWING  
NO. 1294491

SHOP AREA NO 2

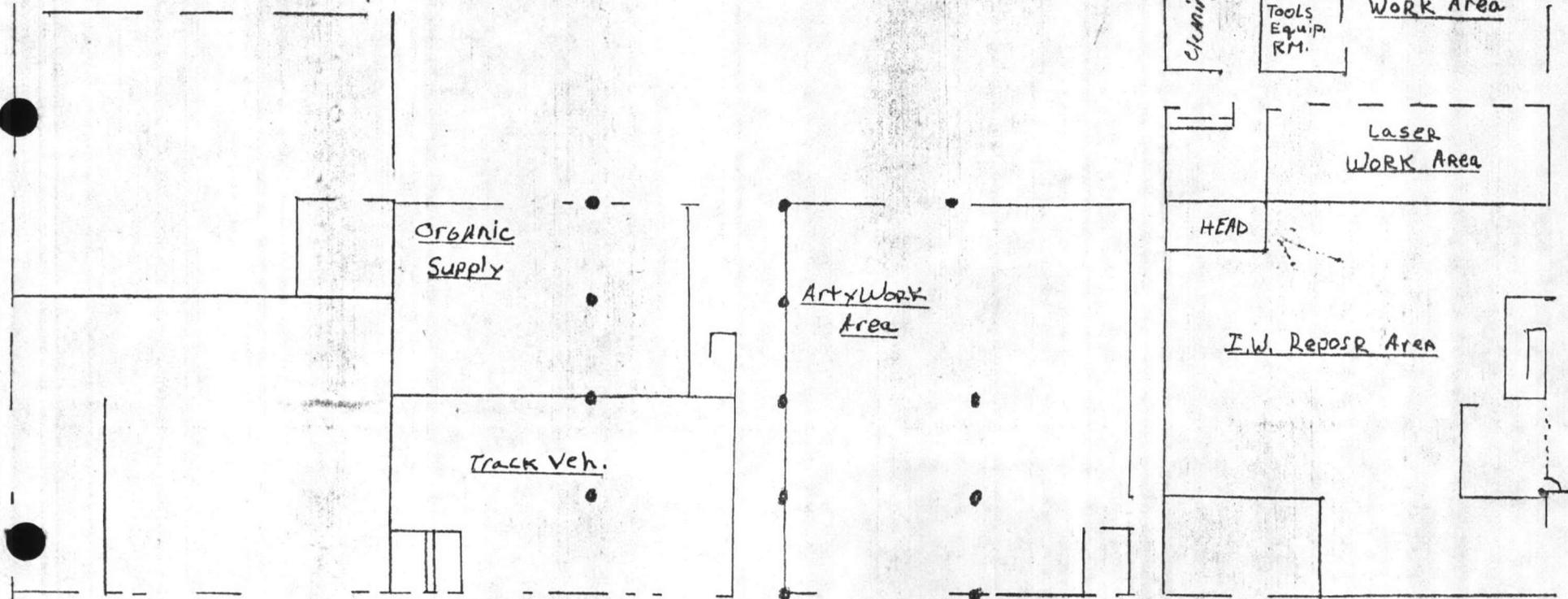
Enclosure (A)



Ordnance Maintenance Shop (\*4)

MAINTENANCE BATTALION FSR

NAV FAC Drawing No. 1294493

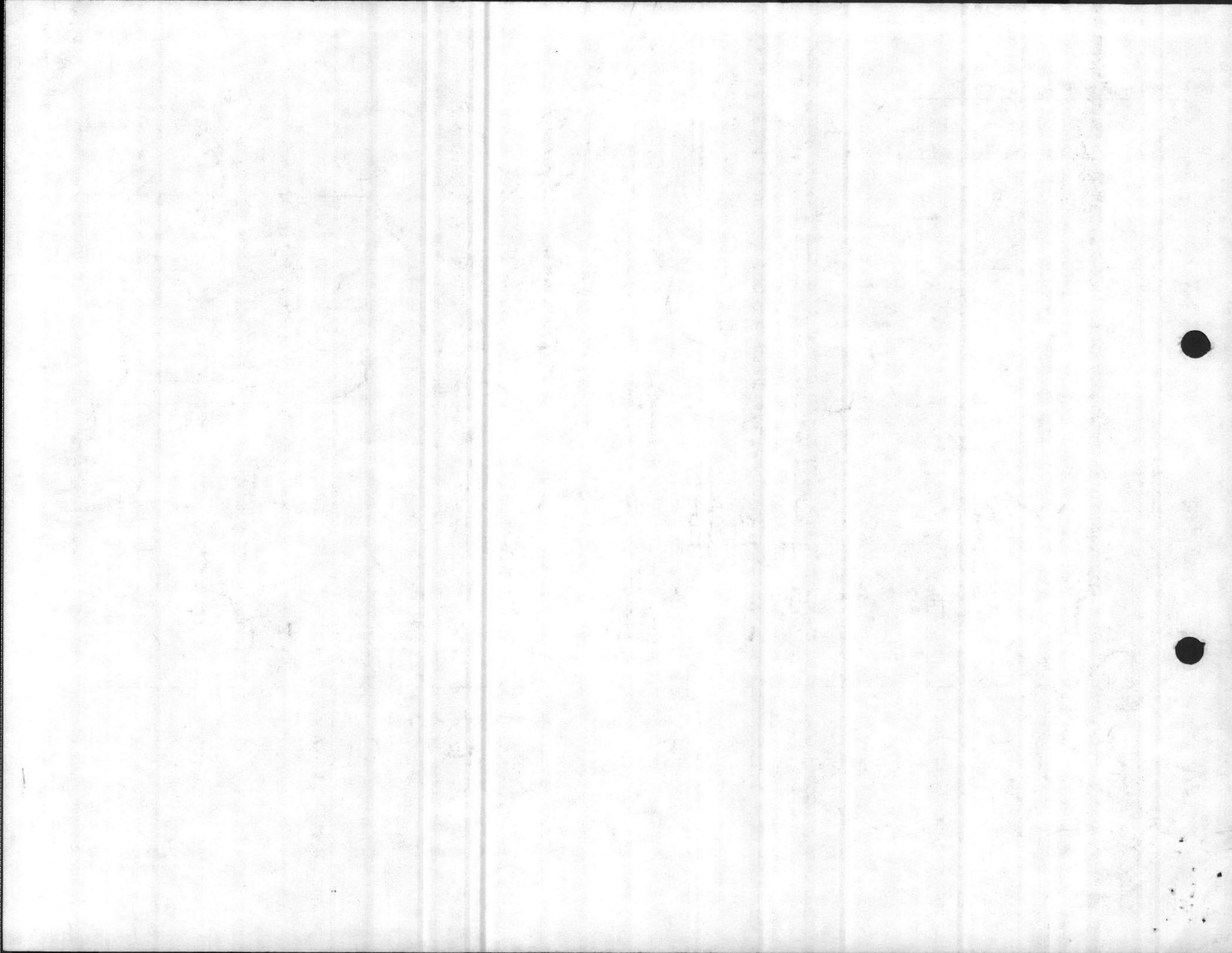


ENCLOSURE (10)

OVERLAY TO NAVFAC

1294493

SHOP AREA NO 4



NOTE:

THE FOLLOWING INFO IS BASE OF PROJECT  
LAYOUT FROM A/E FOR PRELIM. EARTHWORK  
ANALYSIS DATED FEB, 1985

PAVED AREAS INDICATED BY SITE LAYOUT:

COMPLETE GONZOLAS EXTENSION - 2000 LF = 5,500 SY

POV PARKING 400 x 600 = 26,666 SY

ALL OTHER PARKING AND PAVED AREAS AROUND  
TOTAL MAINT. COMPLEX = 42,887 SY

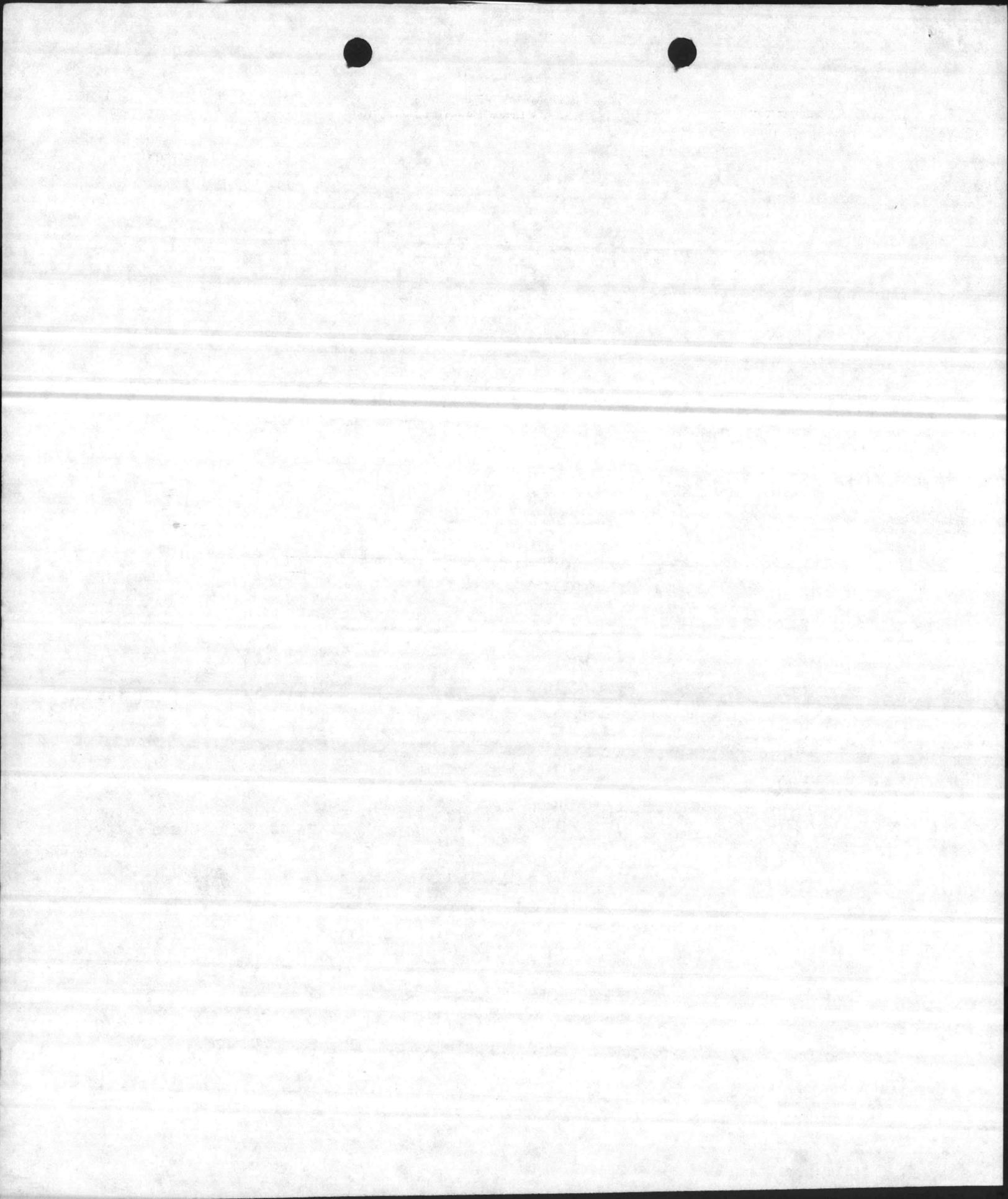
PAVED AREA FOR TOTAL PROJECT = 75,053 SY

SAY = 75,100 SY

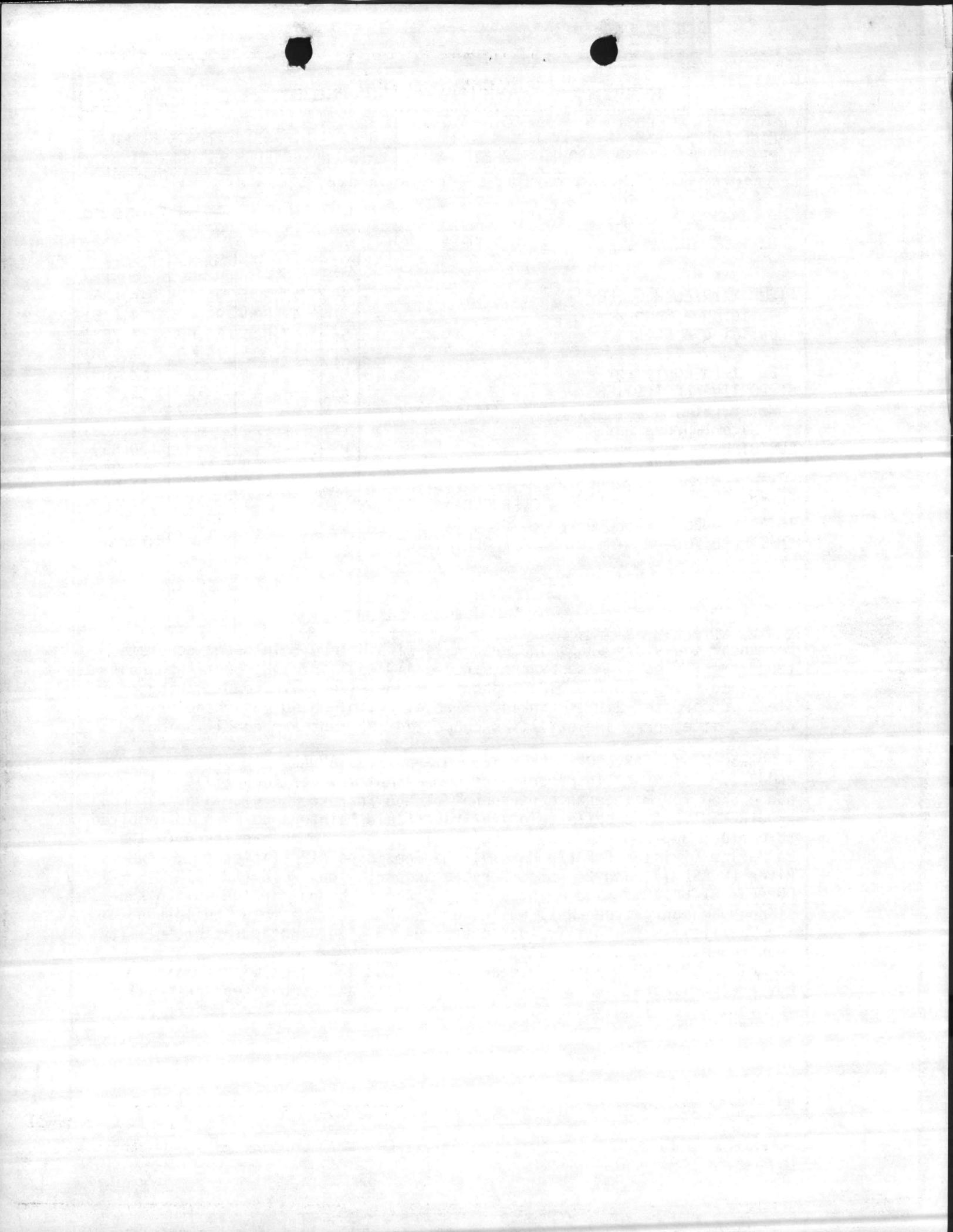
(75,100 SY = 15.5 AC.)

THE ABOVE FIGURE OF 75,100 SY DOES NOT INCLUDE ANY  
PAVED TANK TRAILS.

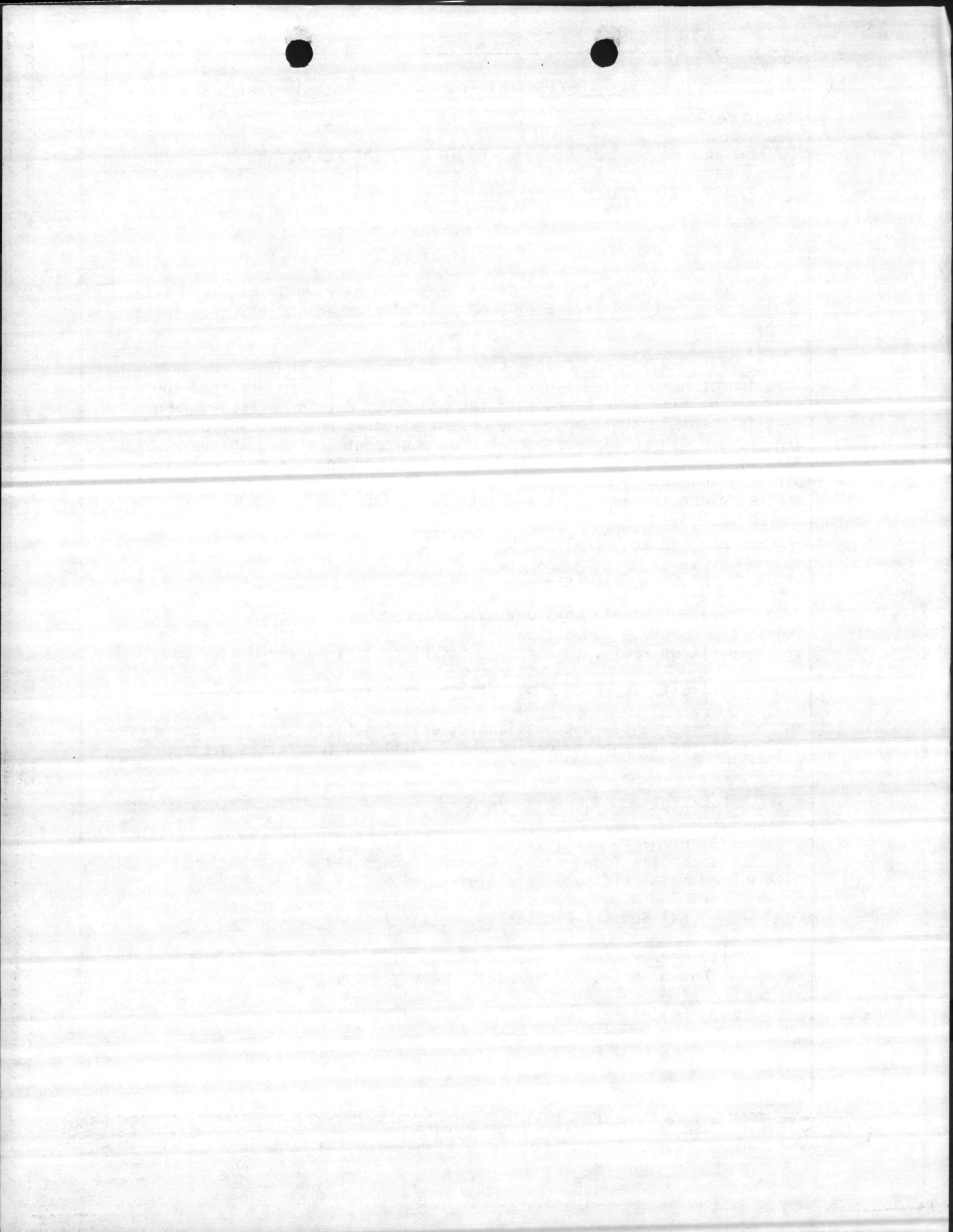
$75,100 \text{ SY} \div 4 \text{ INCREMENTS} = 18,775 \text{ SY}$   
PER PROJECT



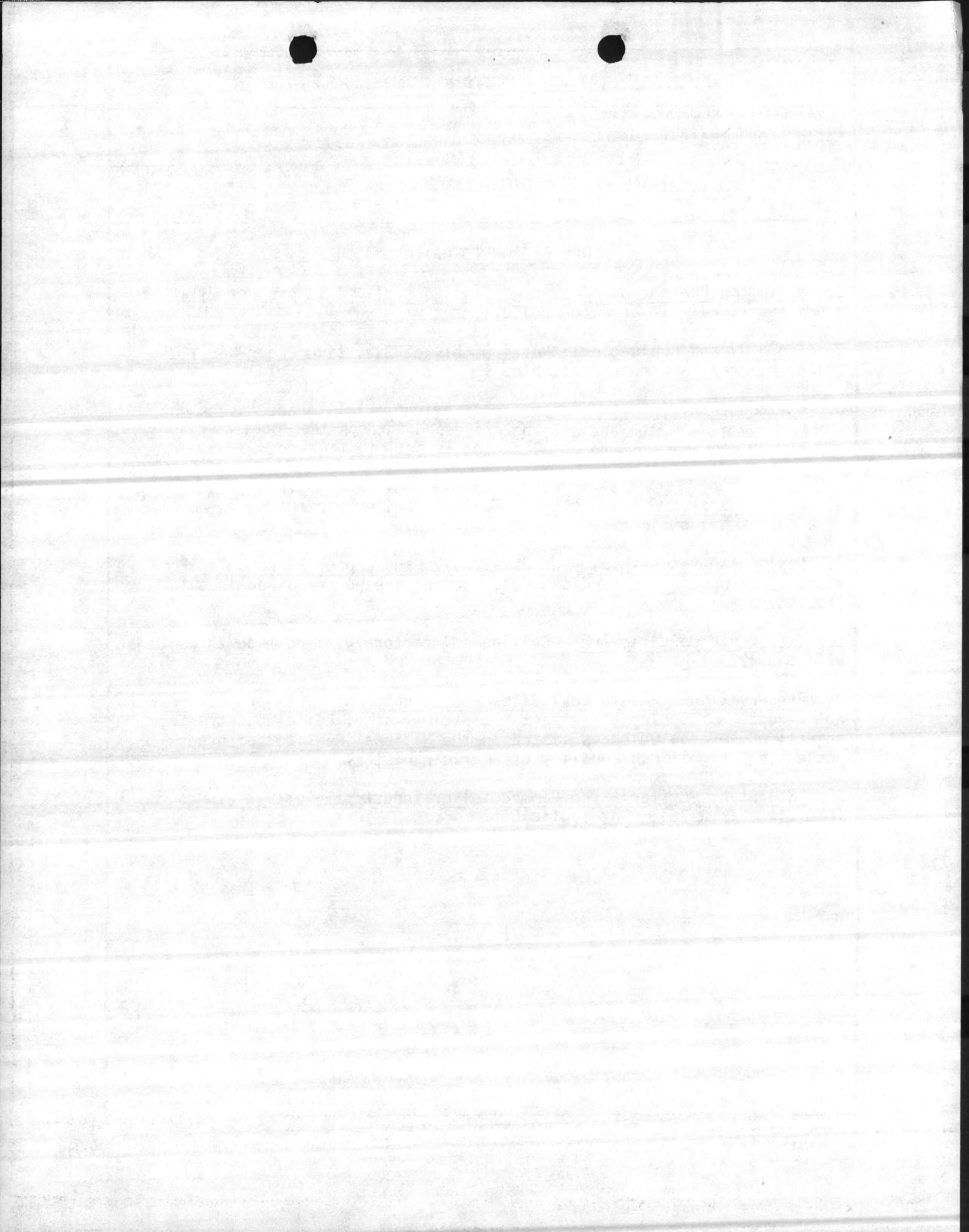
1. COMPONENT NAVY		FY 19 <u>87</u> MILITARY CONSTRUCTION PROJECT DATA		2. DATE <u>83</u> 1 AUG 1981	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542			4. PROJECT TITLE COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (INCREMENT 3)		
5. PROGRAM ELEMENT		6. CATEGORY CODE 214-53	7. PROJECT NUMBER P-804	8. PROJECT COST (\$000) <del>\$23,100</del> 30,500	
9. COST ESTIMATES					
ITEM		U/M	QUANTITY	UNIT COST	COST (\$000)
FIELD MAINTENANCE SHOP		SF	210,300	91.47	19,236
Building - Shop 2		SF	47,500	90.00	(4,275)
Building - Shop 4		SF	52,800	90.00	(4,752)
Craneway		SF	110,000	70.00	(7,700)
Built-In Equipment		LS	-	-	(2,509)
SUPPORTING FACILITIES		LS	-	-	1,623
Water, Stm, Sewer, Fire Alarm/Telephone, Site Improvement		LS	-	-	(1,623)
SUBTOTAL		LS	-	-	20,859
CONTINGENCY - 5%		LS	-	-	1,042
ESTIMATED CONTRACT COST		LS	-	-	21,901
SUPERVISION, INSPECTION, & OVERHEAD - 5.5%		LS	-	-	1,204
TOTAL REQUEST (ROUNDED)		LS	-	-	23,100
INSTALLED EQUIPMENT - OTHER APPROPRIATIONS		-	-	-	-
10. DESCRIPTION OF PROPOSED CONSTRUCTION					
Permanent two-story shops and craneways with piles, reinforced concrete foundation, floors, masonry and structural steel framing. Built-up roof over insulation and interior support systems (i.e., air conditioning, steam, compressed air, sprinkler, fire alarm, plumbing, overhead bridge cranes, site work, and utilities connected (82 tons air conditioning)).					
REQUIREMENTS: <u>442,600</u> ADEQUATE: <u>0</u> SF SUBSTANDARD: <u>0</u> SF					
PROJECT: Construct Increment 3 of Combat/Automotive/Track Field Maintenance Shop for maintenance personnel of the 2d Force Service Support Group.					
REQUIREMENT: A Combat/Automotive/Track Field Maintenance Shop is required to perform 3rd and 4th echelon maintenance on equipment assigned to the 2d Marine Division FMF (2d MARDIV); Marine Corps Air Station (H), New River (MCAS(H)), and 2d Force Service Support Group REIN (2d FSSG).					
CURRENT SITUATION: The maintenance program is being carried out in sub-standard masonry-type WW-II buildings and Butler-type metal buildings. The facilities are totally inadequate due to size, configuration, utility requirements, and site location.					
IMPACT IF NOT PROVIDED: The deadline time on equipment will remain adversely affected and maintenance capability and combat readiness will continue to be impaired.					
VM					



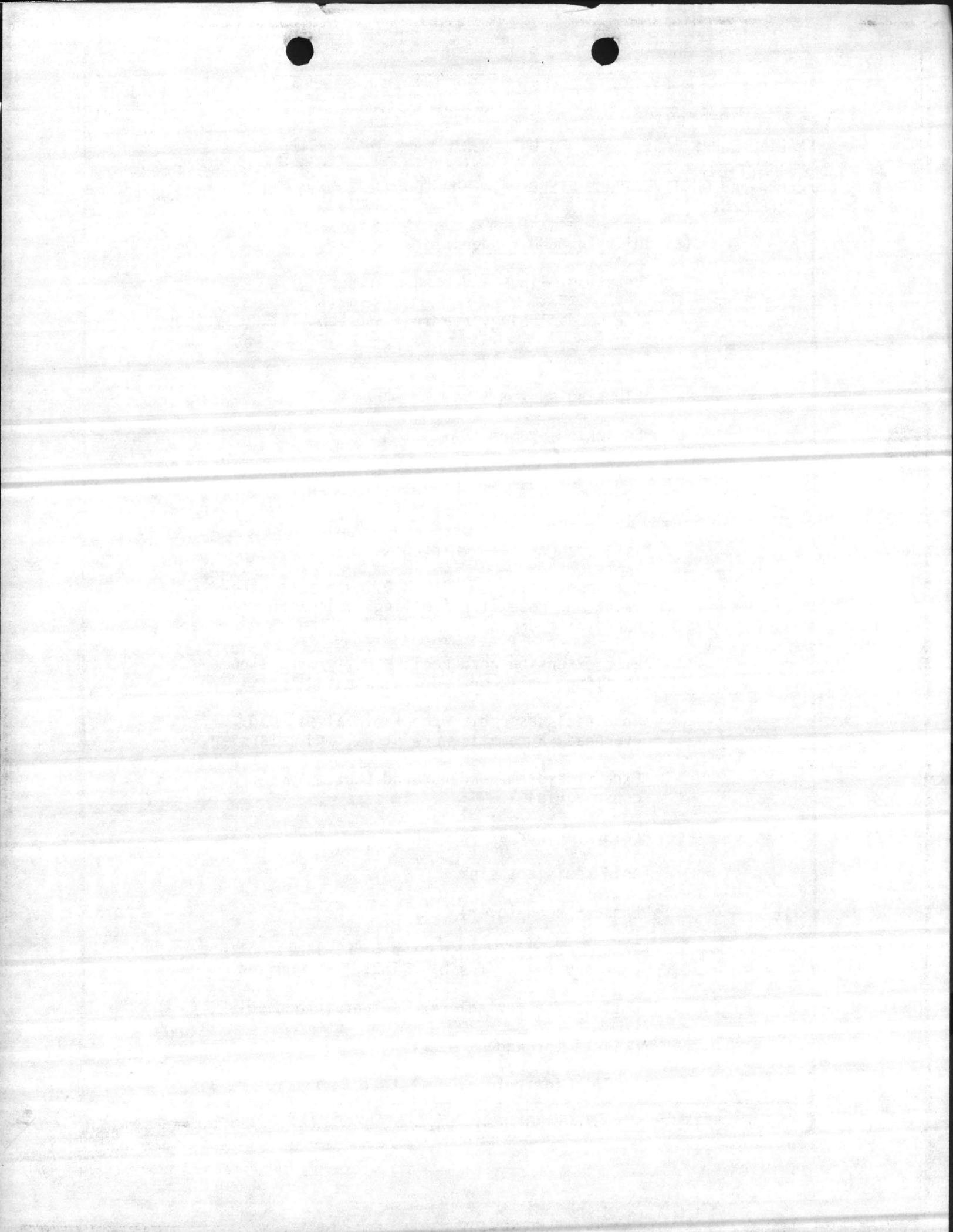
1. COMPONENT NAVY	FY 19 <u>87</u> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 AUG 1981
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (INCREMENT 3)		5. PROJECT NUMBER P-804
<p style="text-align: center;"><u>FACILITY STUDY</u></p> <p>1. <u>Project.</u> Provide 210,300 SF of Combat/Automotive Track Field Maintenance Shop area as Increment 3 of a total planned 442,600 SF maintenance complex.</p> <p>2. <u>Current and Planned Future Workload with Regard to This Project.</u> The duration of need is indefinite and the facility will be utilized 100 percent of the time. An average of ten hours per day for a five-day work week is spent in the shops. The organization is responsible for performing 3rd and 4th echelon maintenance on equipment assigned to the 2d MARDIV, MCAS(H) New River, and 2d FSSG. The future workload is difficult to project; however, it is expected to increase as the present equipment becomes older and new items are introduced into the system.</p> <p>3. <u>Description of Proposed Organization.</u></p> <p style="padding-left: 2em;">a. <u>Type of Construction.</u></p> <p style="padding-left: 4em;">(1) Permanent two-story maintenance shop with craneway on pilings, reinforced concrete foundations, floors, masonry and structural steel walls, built-up roofs, insulation, interior utilities, and air conditioning.</p> <p style="padding-left: 4em;">(2) Site improvements, exterior utilities, etc.</p> <p style="padding-left: 2em;">b. <u>Replacement.</u> Not applicable; existing facilities will be temporarily utilized to satisfy deficiencies until new facilities are constructed.</p> <p style="padding-left: 2em;">c. <u>Description of Work to Be Done.</u></p> <p style="padding-left: 4em;">(1) <u>Primary Facility.</u> Modular reinforced concrete/masonry structures on pile foundation. Craneway supported with structural steel with ribbed metal siding on steel girts.</p> <p style="padding-left: 6em;">(a) <u>Support Facilities.</u> Utilities and site improvement.</p> <p style="padding-left: 4em;">(2) <u>Energy Conservation.</u> Energy efficient equipment and building materials and orientation for maximum energy conservation will be utilized.</p> <p style="padding-left: 4em;">(3) <u>Collateral Equipment.</u></p> <p style="text-align: center;">SEE NEXT PAGE</p>		



1. COMPONENT NAVY	FY 1987 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 AUG 1981
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (INCREMENT 3)		5. PROJECT NUMBER P-804
<p style="text-align: center;"><u>SPECIAL CONSIDERATIONS</u></p> <ol style="list-style-type: none"> <li>1. <u>Pollution Prevention, Abatement, and Control</u>: This project will not cause additional air or water pollution.</li> <li>2. <u>Flood Hazard Evaluation</u>: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable.</li> <li>3. <u>Environmental Impact</u>: The project Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.</li> <li>4. <u>Fallout Shelter Construction</u>: Fallout shelter protection is not incorporated in this project.</li> <li>5. <u>Design for Accessibility of Physically Handicapped Personnel</u>: Provisions for physically handicapped personnel are not required in this project.</li> <li>6. <u>Use of Air Conditioning</u>: Ceiling "U" factors will be made to conform WITH DOD 4270.1-M.</li> <li>7. <u>Preservation of Historical Sites and Structures</u>: 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.</li> <li>8. <u>"New Start" Criteria for Commercial or Industrial Activities Program (OMB Circular A-76)</u>: Not applicable.</li> </ol>		



1. COMPONENT NAVY	FY 19 <u>87</u> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 AUG 1981
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (INCREMENT 3)		5. PROJECT NUMBER P-804
<p>(a) <u>Built-In MCON Funded:</u></p> <ul style="list-style-type: none"> <li>*Venetian blinds and window screens</li> <li>*Air conditioning, heating, and ventilating systems</li> <li>*Interior steam system</li> <li>*Plumbing system</li> <li>*Sprinkler system</li> <li>*Telephone, fire alarm, and intercom systems</li> <li>*Drinking water coolers</li> <li>*Tire changer, elec-air, 3'x4'</li> <li>*Air hose reel, 150 PSI, H.D., w/hose control valve and hose stop (ceiling, wall, or pedestal mounted)</li> <li>*Elec extension cord reel, H.D., w/cord stop (ceiling, wall, or pedestal mounted)</li> <li>*Hose reels assembly w/control valves, H.D., overhead, automatic hose stops, and meters</li> <li>*Exhaust system, underground (automotive or const equip)</li> <li>*Deluge shower w/eye wash</li> <li>*Acid resistant sink</li> <li>*Exhaust hood (over)</li> <li>*Pass window, 4'W w/counter &amp; "B" label roll-down shutter (w/fusible link), if required</li> <li>*Outlets for portable arc welder (grounded)</li> <li>*Outlets for engine starting</li> <li>*Outlets for refrig. unit test (utilities repair)</li> </ul>		



1. COMPONENT NAVY	FY 19 <u>87</u> MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 AUG 1981
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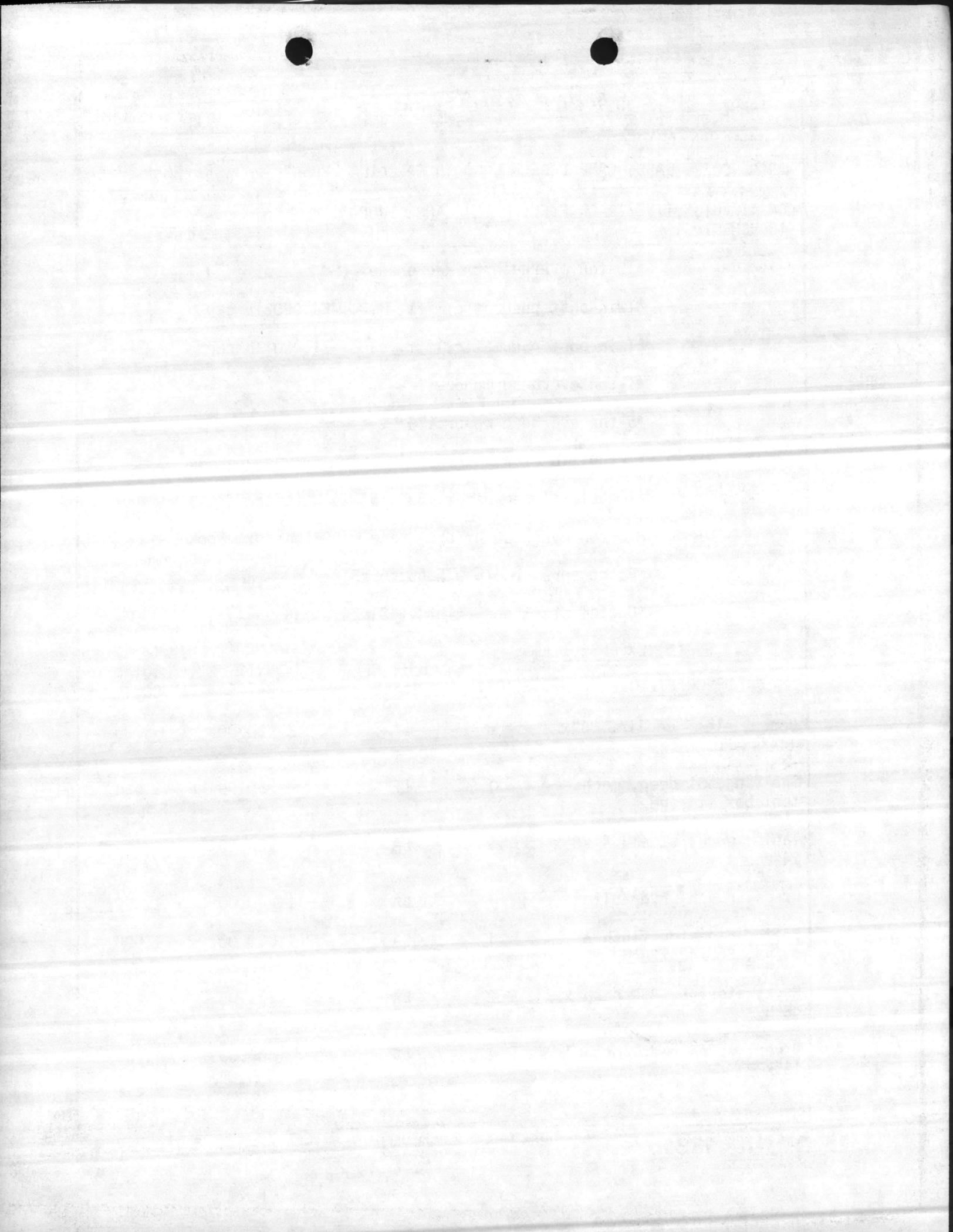
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4. PROJECT TITLE COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (INCREMENT 3)	5. PROJECT NUMBER P-804
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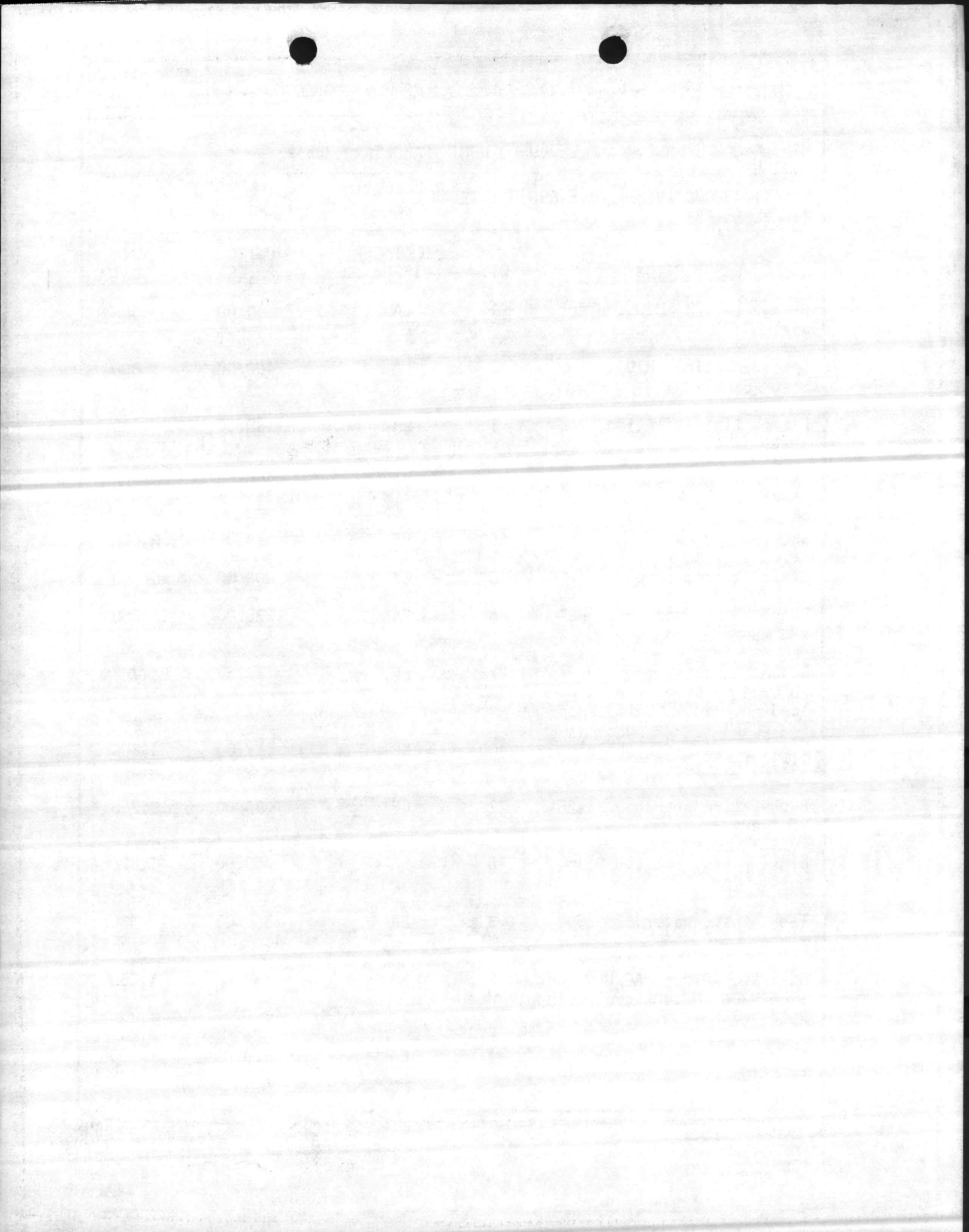
- \*10-ton overhead bridge crane
- \*Twin-post pneumatic lift, H.D., 24,000 lb cap.
- \*Twin-post pneumatic lift, L.D., 11,000 lb cap.
- \*1-ton overhead monorail
- \*5-ton overhead monorail
- \*2-ton jib crane
- \*Industrial degreaser, 33'x15'x20'H (clear dim.)
- \*75-ton overhead bridge crane w/20-ton aux. hook
- \*Paint spray booth w/hood, 5'x3'
- \*Engine starting outlets (12, 24, & 36 volt)

(b) EXPENSE ITEMS:

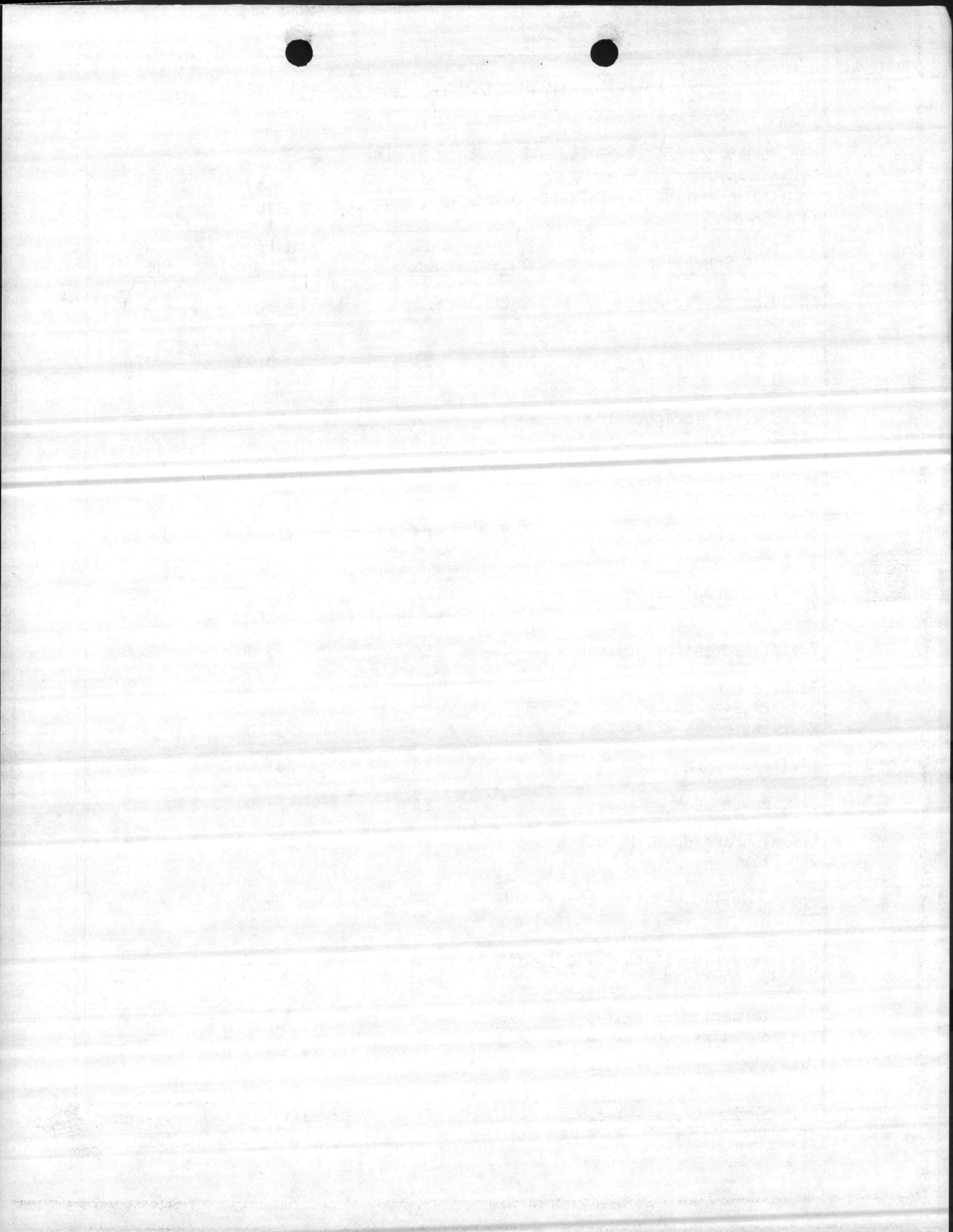
<u>DESCRIPTION</u>	<u>QTY</u>	<u>UNIT OF ISSUE</u>	<u>UNIT PRICE</u>	<u>TOTAL COST</u>
Bench, elec. repair, 36"x144"x34"H	8	EA	\$ 90.00	\$ 720
Shelving, 3' deep, mechs. tool box storage	21	LF	50.00	1,050
Table, work, steel, 4'x8'x24"H	9	EA	160.00	1,440
Press, punch, hydraulic	1	EA	1,200.00	1,200
Booth, radiator flush & paint, 60"x42"x28"H	1	EA	1,000.00	1,000
Rack, storage, 48" deep x 48"H	2	EA	125.00	250
Dryer, infra-red, portable, 18"x72"	4	EA	300.00	1,200



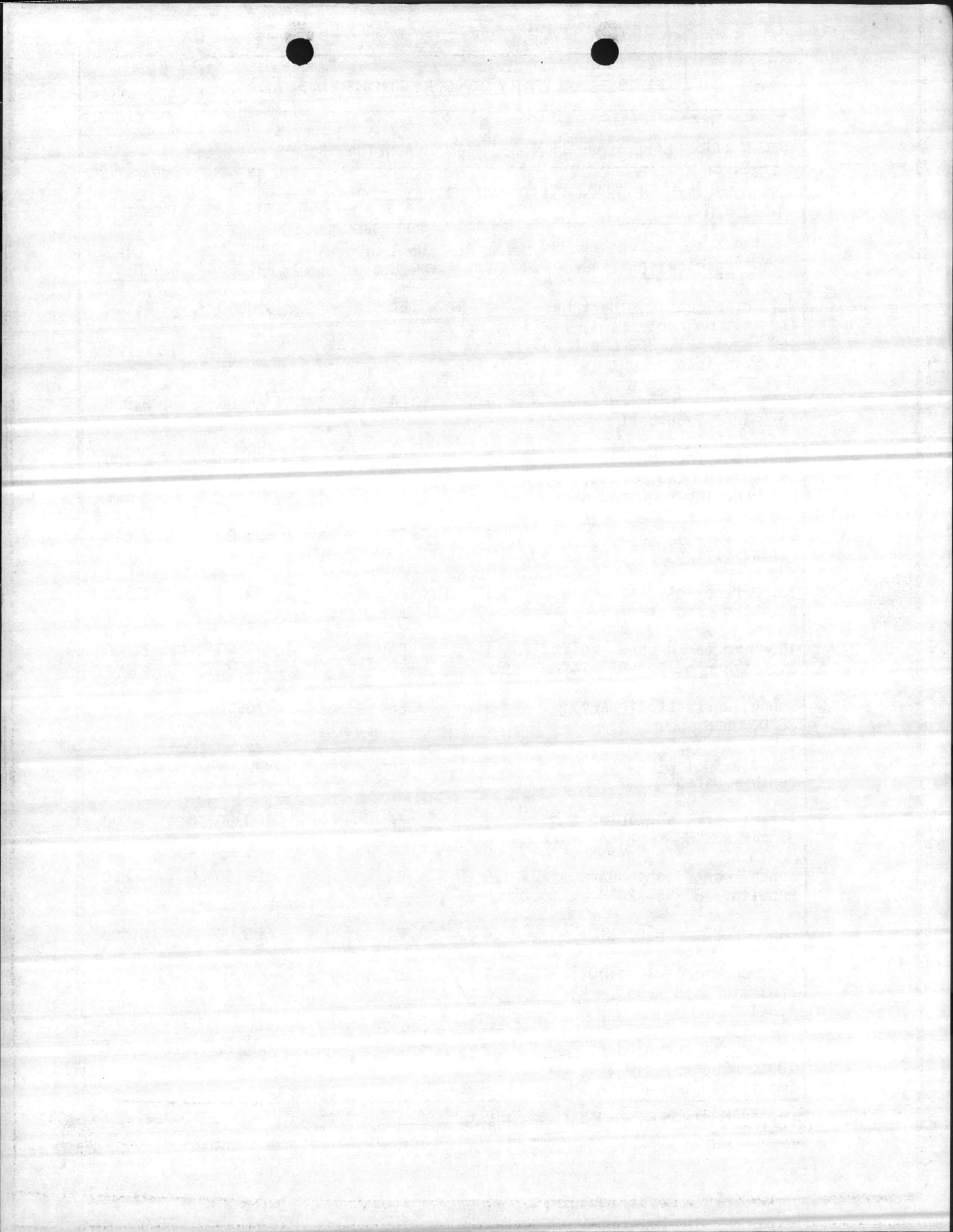
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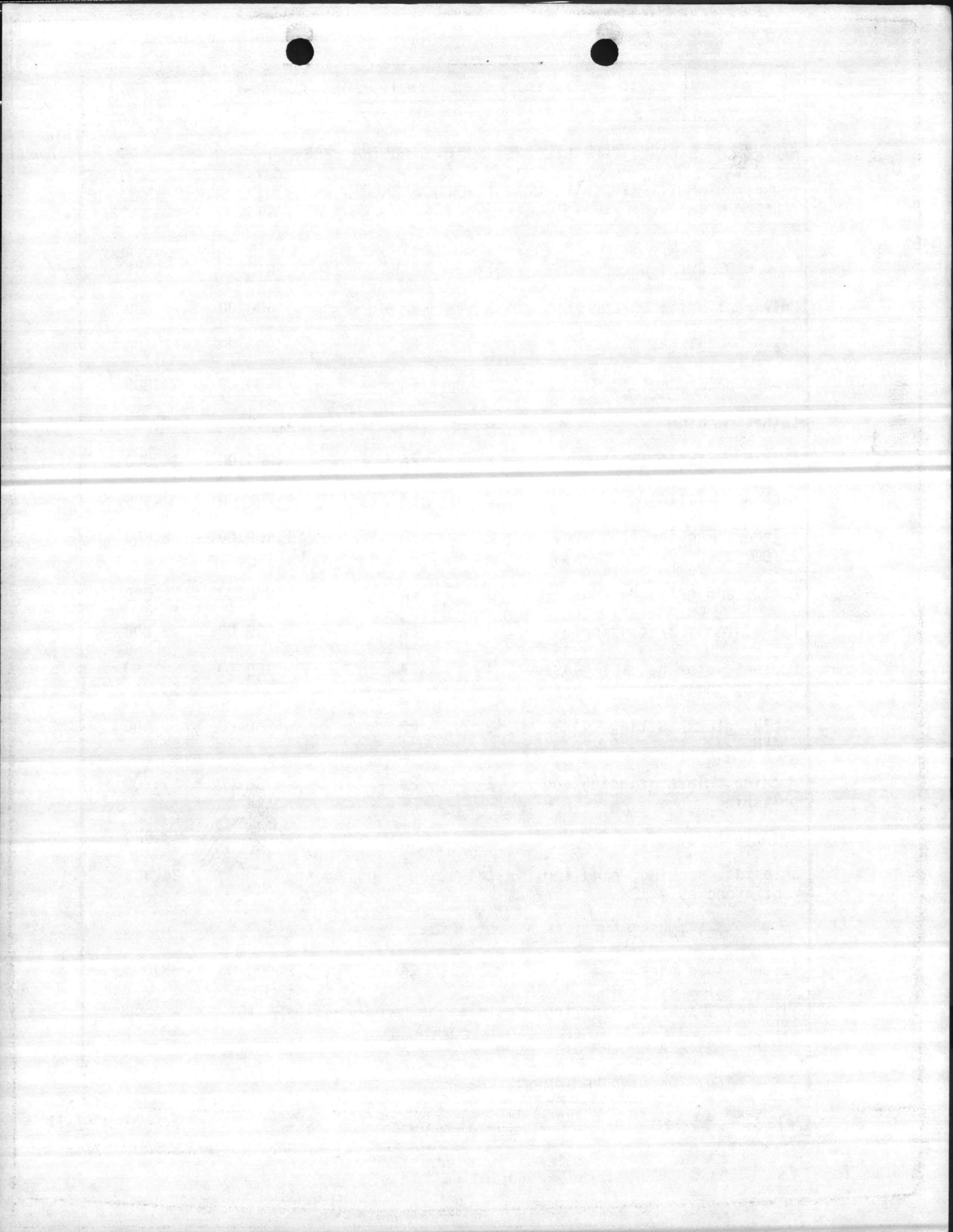
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<u>DESCRIPTION</u>		<u>QTY</u>	<u>UNIT OF ISSUE</u>	<u>UNIT PRICE</u>	<u>TOTAL COST</u>
Shelving, 14"W, w/adj standards		2	EA	\$ 105.00	\$ 210
Shelving, 12"W, w/adj standards		2	EA	\$ 90.00	180
Rack, acid storage, 24"x24", wood		3	EA	10.00	30
Bench, grinder, 7", w/buffer wheel		1	EA	198.00	198
Grinder, pedestal, 10", 12 AMP		7	EA	175.00	1,225
Press, hydraulic, 80 & 60 ton (Arbor)		1	EA	2,500.00	2,500
Press, hydraulic, 10-ton		1	EA	650.00	650
Tank, cleaning, parts, 38"x22"x34", portable, w/drying racks 22"x24"		5	EA	395.00	1,975
Riviter, brake shoe		1	EA	235.00	235
Saw, power hack		2	EA	675.00	1,350
Lathe, brake drum, H.D., 24" Diam.		3	EA	1,500.00	4,500
Press, drill, pedestal-mtd, 24"S.W.		5	EA	1,800.00	9,000
Box, tempering (sand filled), 24"x40" on stand		3	EA	500.00	500
Box, tempering, asbestos-filled, 24"x40" on stand		5	EA	300.00	1,500



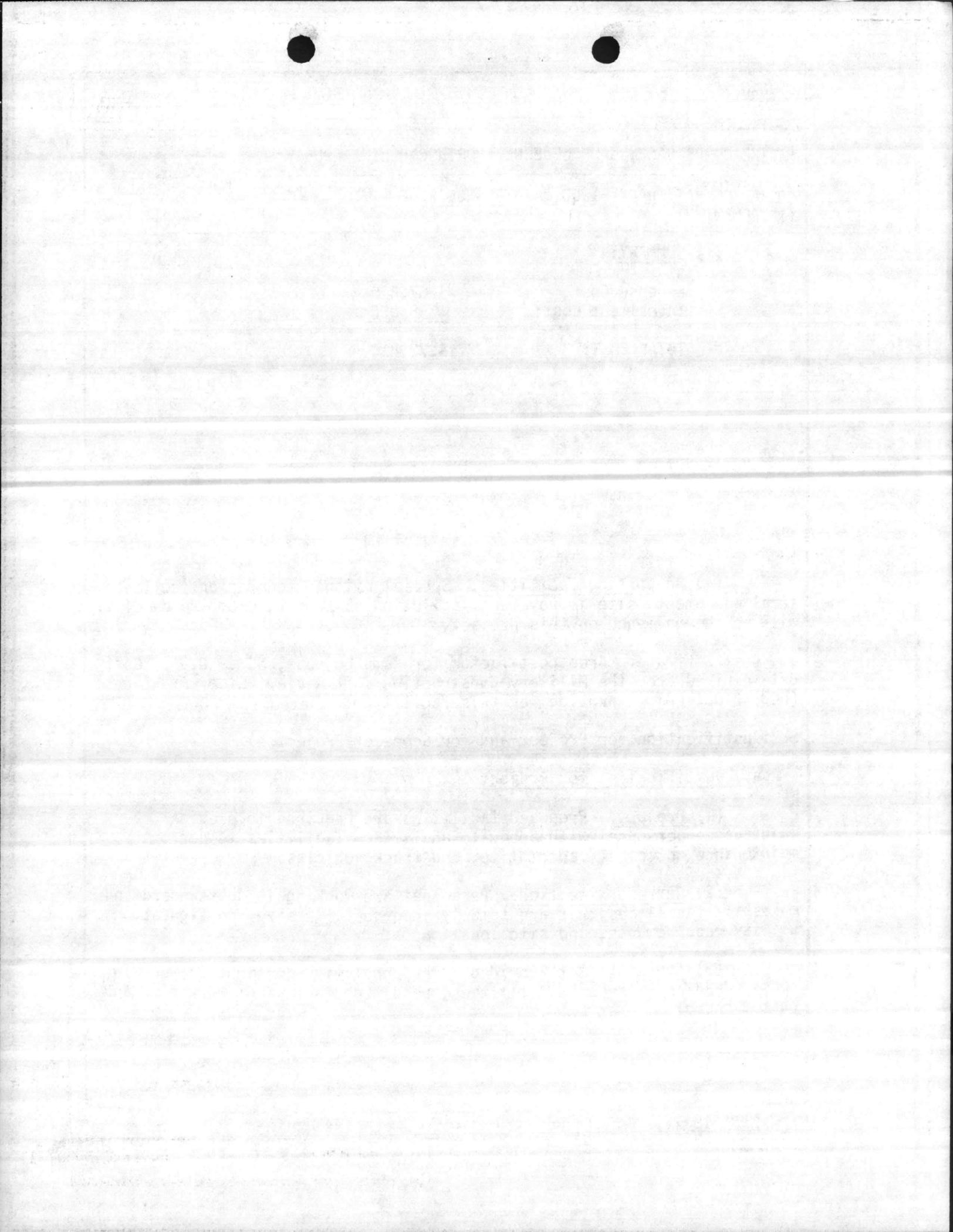
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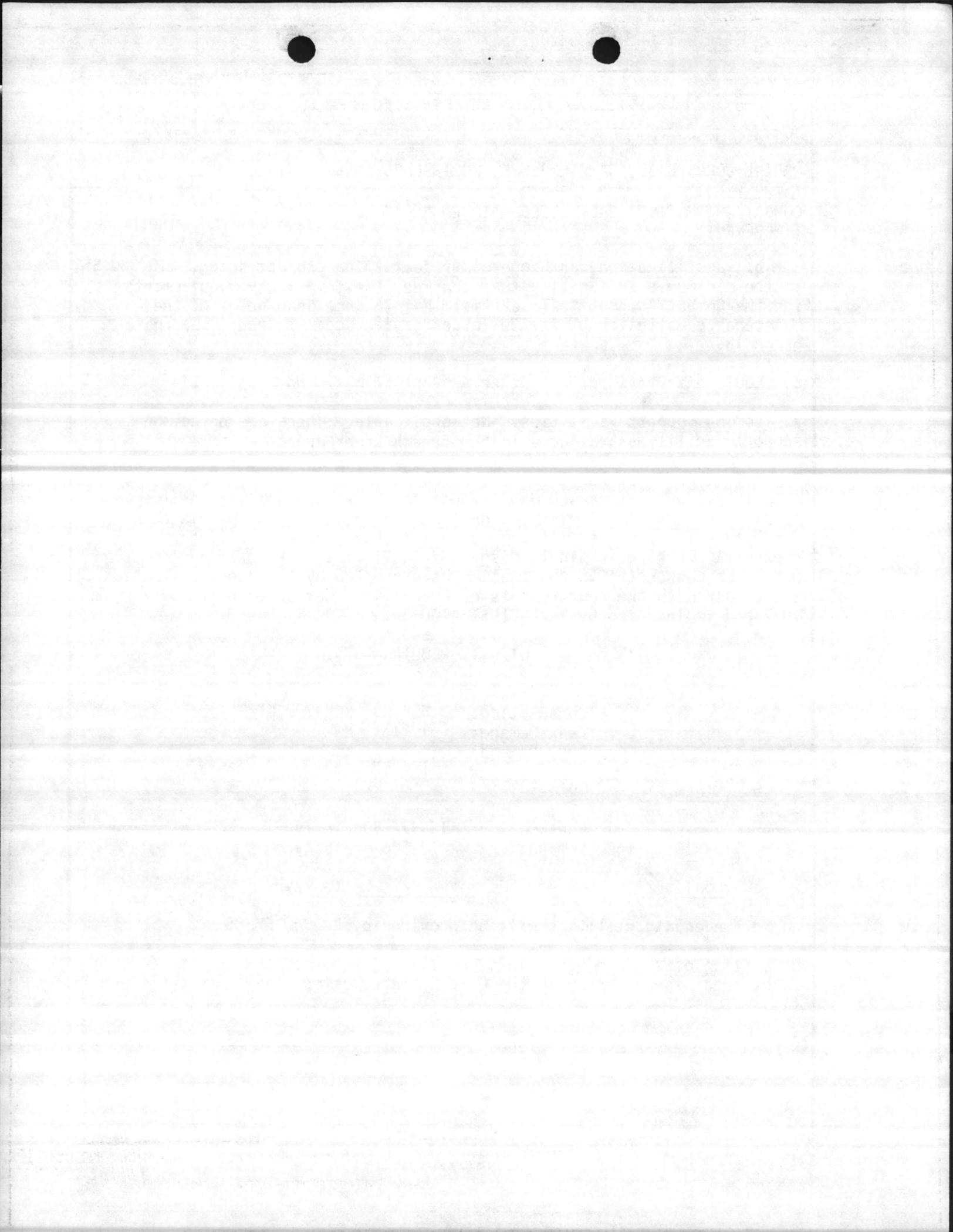
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<p>(f) <u>SUMMARY:</u></p> <table style="margin-left: 100px;"> <tr> <td>Expense Cost:</td> <td style="text-align: right;">\$267,810</td> </tr> <tr> <td>Investment Cost:</td> <td style="text-align: right;"><u>5,000</u></td> </tr> <tr> <td> TOTAL COST:</td> <td style="text-align: right;"> \$272,810</td> </tr> </table> <p>(4) <u>Supporting Facilities.</u> Special piling, foundation, collateral equipment, site improvement, pollution abatement, etc. No demolition will be accomplished on this project.</p> <p>4. <u>Cost Estimate.</u> Area cost factor for Camp Lejeune, NC is 0.95. Cost data derived from the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG) to provide for this facility, escalated to FY-83.</p> <p>5. <u>Justification for Project and for Scope of Project.</u></p> <p>a. <u>Justification for Project.</u></p> <p>(1) <u>Project.</u> Proposed facilities are required to provide maintenance personnel with adequate and secure facilities to perform maintenance on combat, automotive, and track vehicles.</p> <p>(2) <u>Current Situation.</u> Personnel are working in substandard and makeshift facilities that are totally inadequate in size, configuration, utility requirements, and site location.</p> <p>(3) <u>Impact If Not Provided.</u> Personnel will continue to work in substandard and makeshift facilities, resulting in loss of work time and wasted energy.</p>			Expense Cost:	\$267,810	Investment Cost:	<u>5,000</u>	 TOTAL COST:	 \$272,810
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3. INSTALLATION AND LOCATION  
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

4. PROJECT TITLE COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (INCREMENT 3)	5. PROJECT NUMBER P-804
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11. Economic Analysis. This facility is being constructed on an undeveloped site. Economic savings will be in nominal energy consumption savings to be realized from efficient operations. This is a military operational project in support of an operational mission located in this area.

12. Environmental Impact Assessment. An Environmental Impact Assessment (EIA) is being written and will be processed through the local EIA Review Board. No adverse environmental impact is anticipated.

13. Quantitative Data.

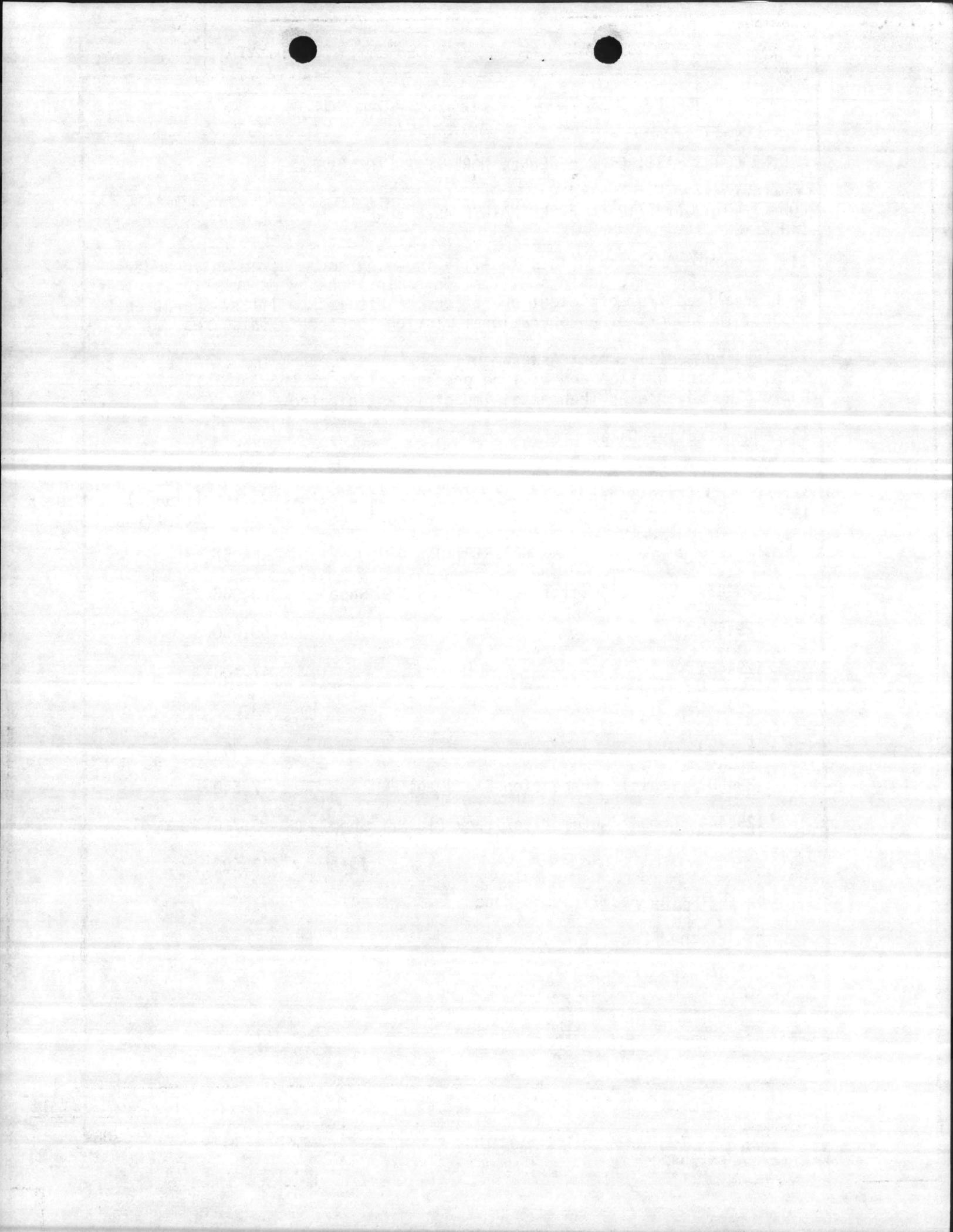
a. BFRL requirement for the French Creek area (EA) is 442,600 SF. NAVFAC P-80 states that the requirement for this category code (214-53) is determined from definitive drawings given in NAVFAC P-272, Part IV.

<u>NAVFAC DWG #</u>	<u>DESCRIPTION</u>	<u>AREA SF</u>
1294489	Combat/Automotive/Track Fld Mnt Shop	220,000
1294490	"	53,000
1294491	"	47,500
129492	"	48,000
1294493	"	52,800
1294508	Vehicle Inspection Statement	7,540
1294444	Combat/Automotive/Track Fld Mnt Shop	<u>13,760</u>
TOTAL:		442,600

b. Existing Facilities: None

c. Planned Facilities:

SEE NEXT PAGE



## 3. INSTALLATION AND LOCATION

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

## 4. PROJECT TITLE

COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP  
(INCREMENT 3)

## 5. PROJECT NUMBER

P-804

c. Planned Facilities:

<u>PROJECT #</u>	<u>AREA SF</u>	<u>STATUS</u>
P-257	60,540	FY-85
P-803	48,000	FY-86
P-804	210,300	FY-87
P-805	110,000	FY-88
P-256	<u>13,760</u>	UP
SUBTOTAL:	442,600	

d. Existing Adequate Facilities: 0 SF

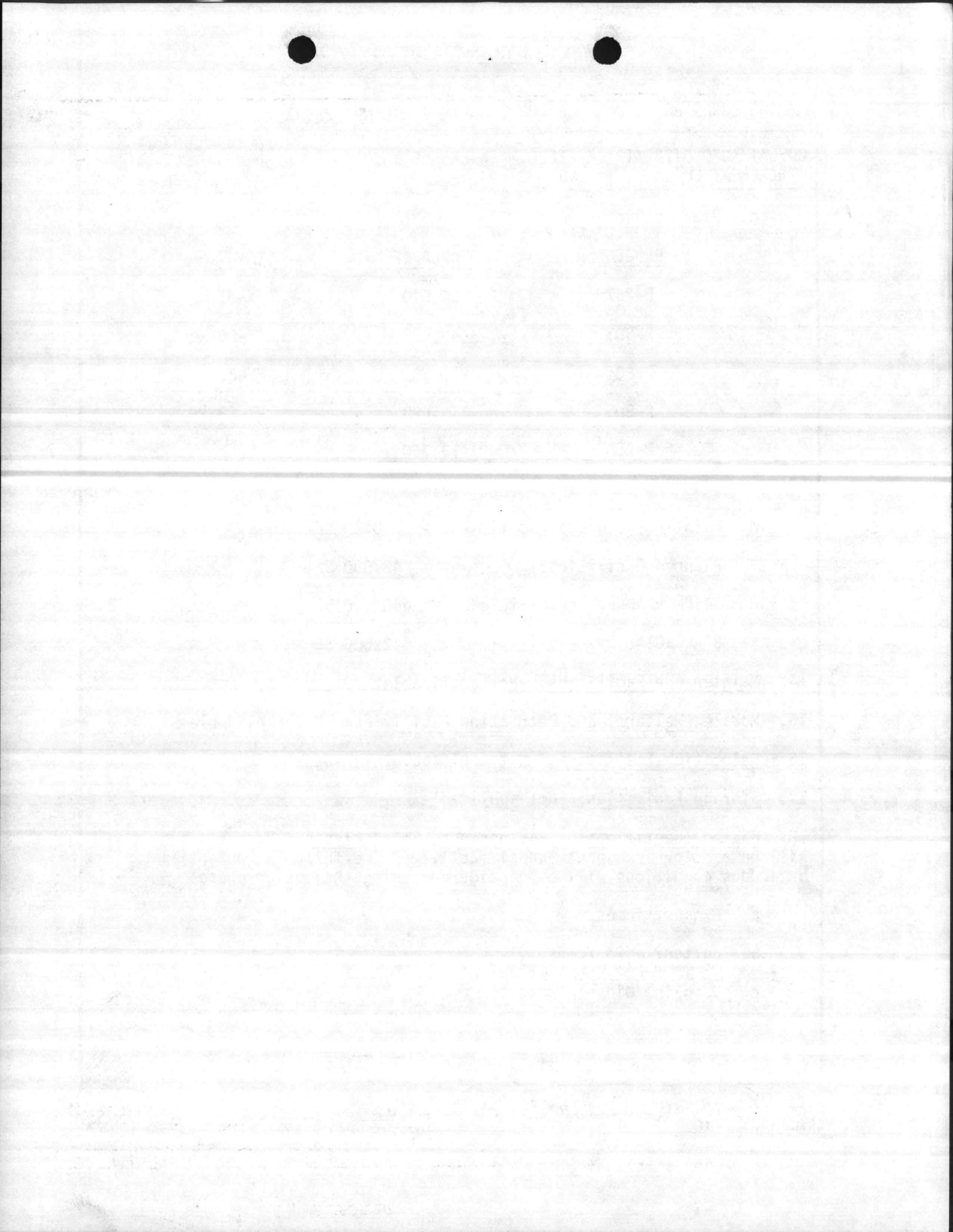
Planned Facilities: 442,600 SF

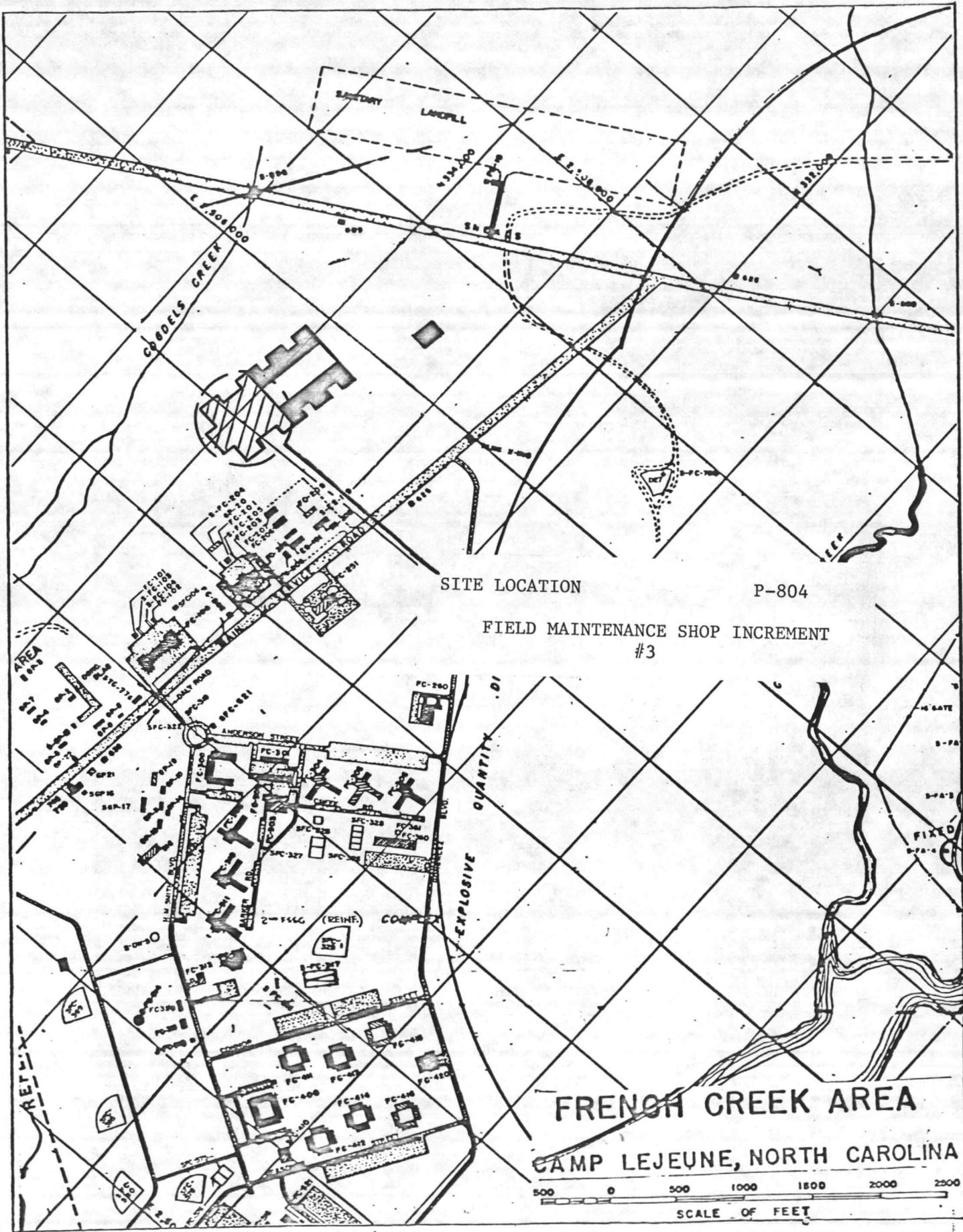
TOTAL PLANNED FACILITIES: 442,600 SF

BFRL TOTAL: 442,600 SF

14. Maintenance Facilities: Not applicable.15. Morale, Welfare, and Recreation Facilities: Not applicable.16. Relocation Facilities: Not applicable.17. Storage Facilities: Not applicable.18. Hazard Identification, Assessment, and Analysis. Proposed facility will be a Motor Transport School facility. The following potential hazardous conditions will be considered during the design phase:

- a. Exhaust fumes.
- b. Battery acid fumes.
- c. Gasoline/diesel fumes.



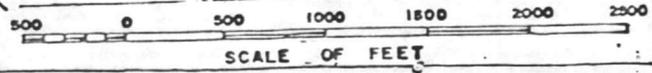


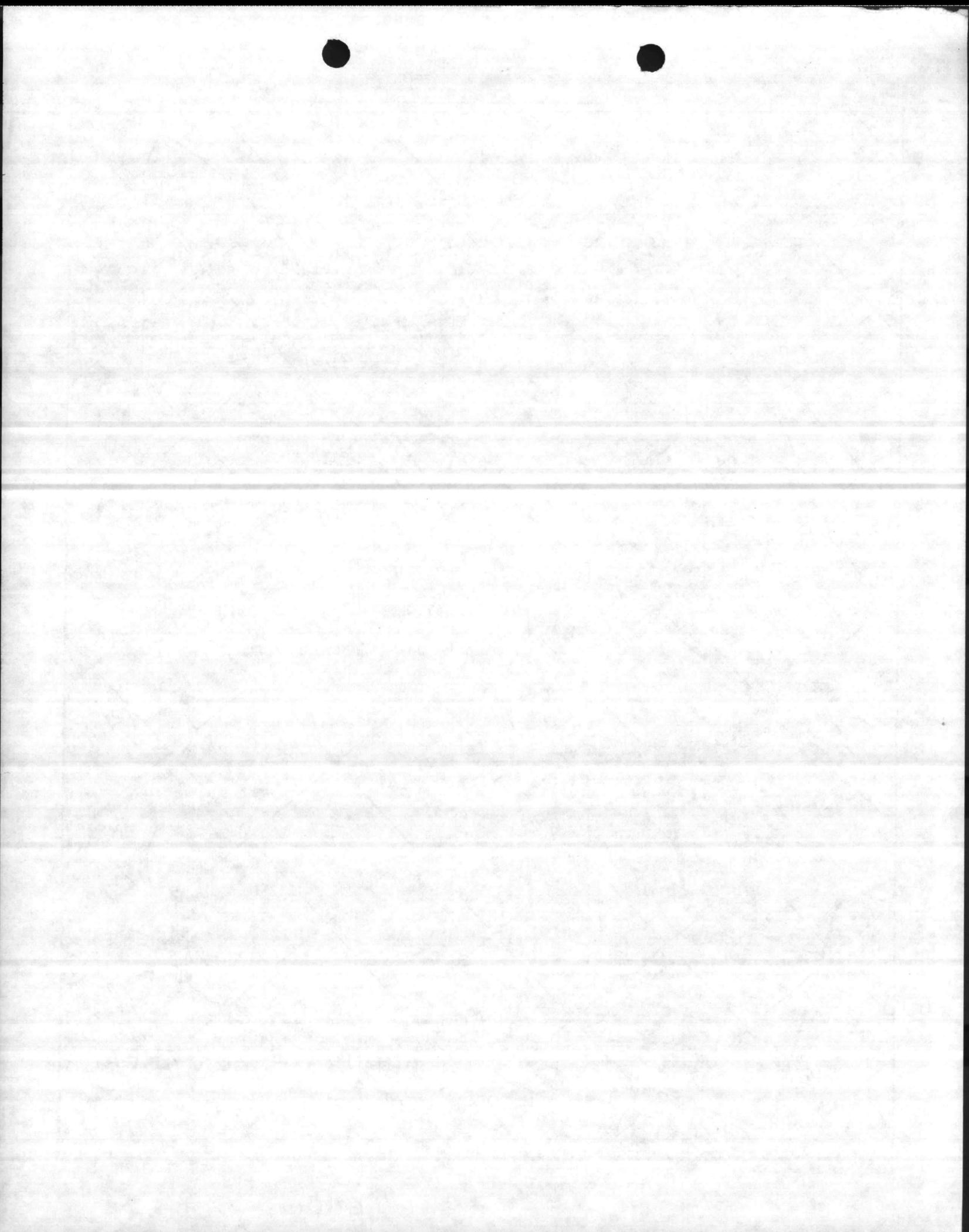
SITE LOCATION

P-804

FIELD MAINTENANCE SHOP INCREMENT  
#3

FRENCH CREEK AREA  
CAMP LEJEUNE, NORTH CAROLINA





P-804

PWO:408:BJD:mkt  
11000  
17 AUG 1983

From: Commanding General  
To: Commandant of the Marine Corps (Code LFF-1)

Subj: FY 86-90 Military Construction (MCON) Program for Marine Corps Base,  
Camp Lejeune, NC

Ref: (a) CMC 161429Z MAR 83  
(b) Visit to MCB, CLNC by Mr. A. J. RECACHINAS (Code LFF-1, HQMC) on  
3 Aug 1983

Encl: (1) DD Form 1391's (with revised Facilities Studies, as required) for  
FY-86 and FY-87 MCON Program dtd 1 Aug 1983  
(2) DD Form 1391's with Facility Studies and Requests for Site Approval  
w/Site Location Maps for FY-86 Project P-631, UEPH for LAV Bn; and  
FY-88 Project P-828, FMSS Facility, dtd 1 Aug 83  
(3) Revised NAVMC Form 10956 for FY 86-90 MCON Program dtd 1 Aug 83

1. Reference (a) requested submission of project documentation for the  
subject Program. During reference (b), the due date was extended to 15 August  
1983. Accordingly, DD Form 1391's (with revised Facility Studies, as  
required) for FY-86 and FY-87 projects are submitted herein as enclosure (1).  
Further, DD Form 1391's and Facility Studies for all projects not previously  
in the Five-year MCON Program are submitted as enclosure (2).

2. There are two new projects included in enclosure (2):

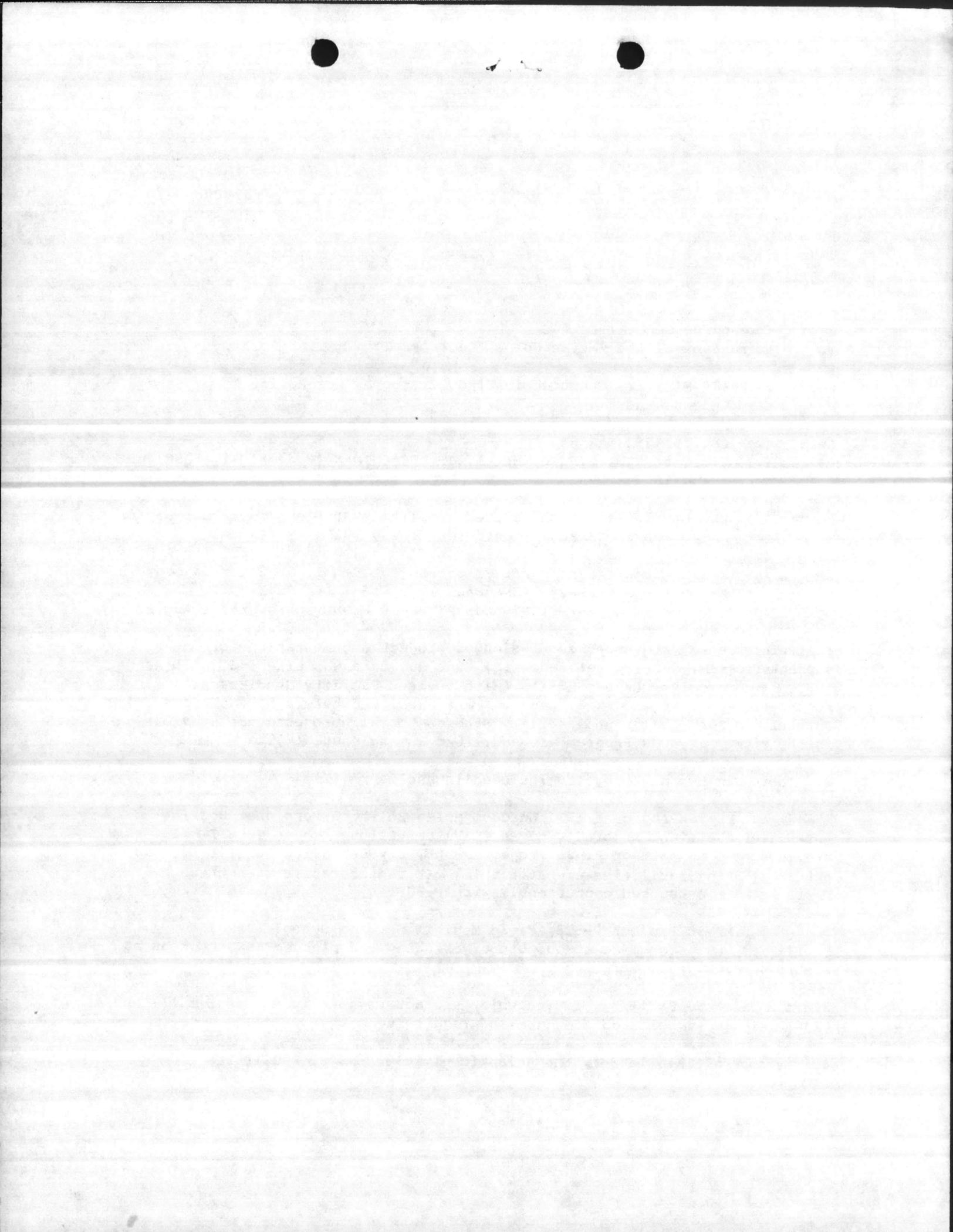
a. FY-86 Project P-631, Unaccompanied Enlisted Personnel Housing  
(UEPH) for the Light Armored Vehicle (LAV) Battalion. These UEPH facilities  
are in direct support of FY-86 Project P-806, LAV Battalion Facilities. No  
other billeting facilities are available. It is imperative that these  
barracks be constructed concurrently with P-806.

b. FY-88 Project P-828, Field Medical Service School (FMSS)  
Facilities, is programmed in support of existing and planned FMSS courses at  
Montford Point.

3. All FY 86-90 Facility Studies which are not revised in enclosures (1) and  
(2) herein are considered adequate and require no changes.

4. By copy of this letter, the Atlantic Division, Naval Facilities

Rit 408



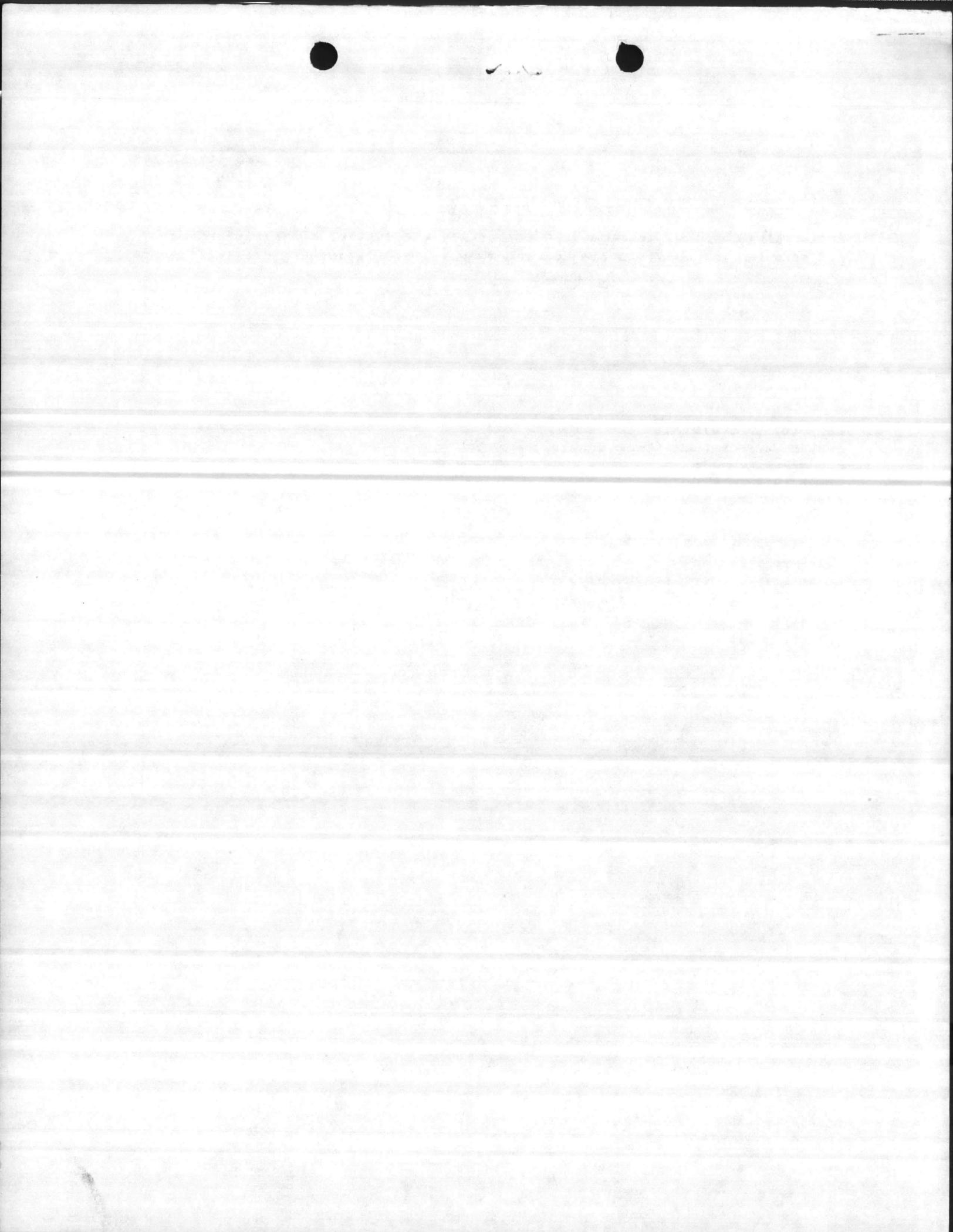
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11000

Engineering Command, is requested to certify the cost of all FY-86 and FY-87 projects (enclosure 1) to the Commander, Naval Facilities Engineering Command.

M. G. LILLEY  
By direction

Copy to: (w/encls)  
COMLANTHAFACENCCOM (Code 09A21R3)  
CG, 2d MARBIV  
CG, 2d FSSG

blind copy to:  
CO FSSS (w/Project P-828 only)  
AreaCom, RCSSS (w/Project P-828 only)  
BHO (w/encls)  
PAC (w/encls)





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

IN REPLY REFER TO

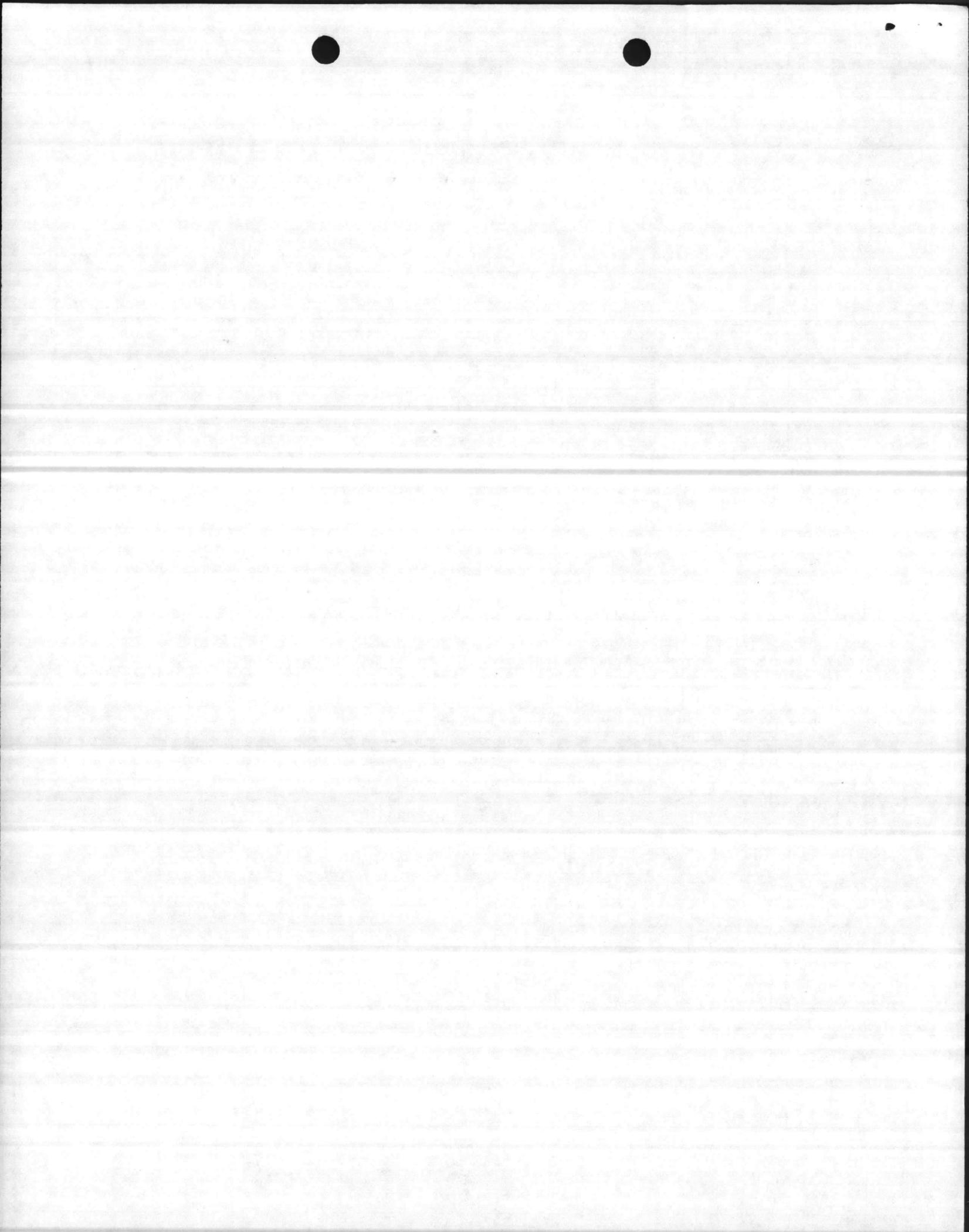
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11013

10 AUG 1981

- From: Commanding General  
To: Commandant of the Marine Corps (Code LFF-1)
- Subj: Military Construction Program for Marine Corps Base, Camp Lejeune, North Carolina, FY-84 through FY-88; submission of
- Ref: (a) CMC ltr LFF-1-LAW:jql 11000/CLNC of 25 Feb 1981  
(b) TelCon Mr. A. Austin, MCB, CamLej w/Mr. Tom Barr, HQMC (LFF-1) of 29 Jul 1981  
(c) CG MCB ltr FAC:ACA:mkc P-600 of 14 May 1981  
(d) CMC ltr LFF-1-JPH:jaq 11011/CLNC of 3 Dec 1980  
(e) CMC ltr LFF-1-BAR:jql of 19 Jun 1981  
(f) CMC 171504Z JUL 81  
(g) CG MCB CLNC 061829Z APR 81
- Encl: (1) Comments on the Camp Lejeune FY-84/88 MCON Program  
(2) NAVMC Form 10956, FY-84 through FY-88 MCON Program (5 sheets) of 1 Aug 1981  
(3) FY-84 MCON Program consisting of summary NAVMC Form 10956 and DD Forms 1391 of 1 Aug 1981 (with facility studies and photographs, where applicable)  
(4) FY-85 MCON Program consisting of summary NAVMC Form 10956 and DD Forms 1391 of 1 Aug 1981 (with facility studies and photographs, where applicable)  
(5) FY-86 MCON Program consisting of summary NAVMC Form 10956 and DD Form 1391 of 1 Aug 1981 w/facility studies  
(6) FY-87 MCON Program consisting of summary NAVMC Form 10956 and DD Form 1391 of 1 Aug 1981 w/facility studies  
(7) FY-88 MCON Program consisting of summary NAVMC Form 10956 and DD Form 1391 of 1 Aug 1981 w/facility studies  
(8) NAVMC Forms 11069, Site Approval Request Forms

1. Reference (a) provides detailed guidance and submission dates for various Marine Corps construction programs. Enclosures (1) through (8) provide the requested data for the Camp Lejeune Five-Year Military Construction Program, FY-84 through FY-88. The submission due date was extended to 12 August by reference (b).

2. More specifically, enclosure (1) provides comments concerning new projects or noteworthy changes to old projects. Enclosure (2) provides a summary of all projects for the five-year period FY-84 through FY-88. Enclosures (3) through (7) provide individual projects nominated for a specific fiscal year, beginning in FY-84. Each specific year is preceded with a summary sheet for rapid reference. As directed in reference (a), previously submitted projects are not included herein and are so indicated with an asterisk on the appropriate NAVMC form 10956. However, the DD Forms 1391 for these projects are included for continuity. Enclosure (8) provides site approval request forms for all projects listed in the FY-84 and FY-85 programs.



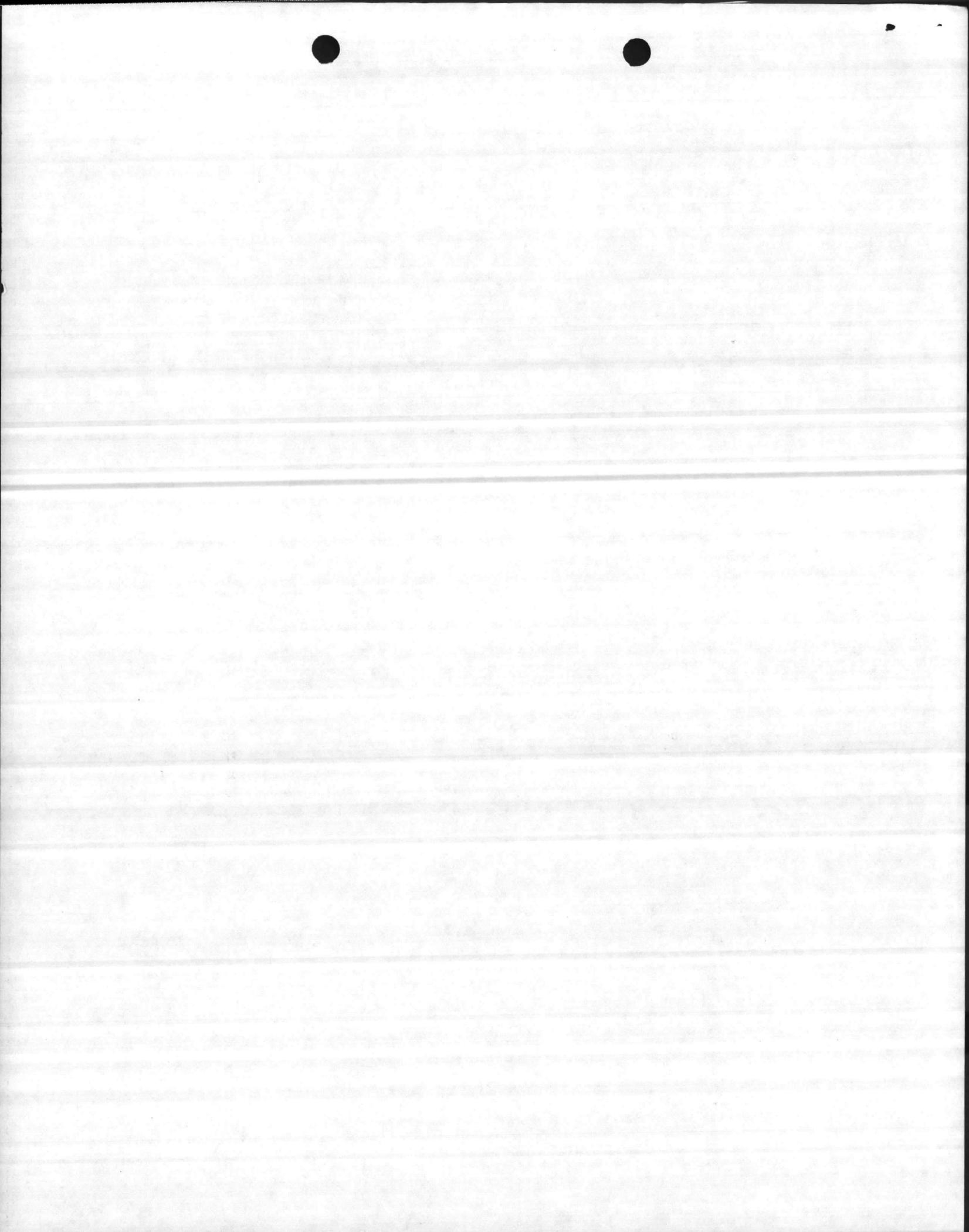
3. Camp Lejeune's Five-Year Program consists of 48 projects, at a total cost of \$232.35 million, with an average annual cost of \$46.47 million. This level of funding is required to meet the goal of satisfying all barracks (UEPH) deficiencies and all combat vehicle maintenance shop deficiencies, both organizational and field levels, by the year 1988. Together, these two items constitute about three-fourths of the Camp Lejeune program, or about 183 million dollars. The remaining portion, \$49 million, satisfies deficiencies for other time-sensitive support items, such as utility projects, instructional facilities, administrative facilities, and unforeseen requirements to satisfy deficiencies resulting from new missions. Projects to satisfy new missions and changes in the Five-Year Program are discussed in detail in enclosure (1).

C. G. COOPER

Copy to: (w/encl less encl (8))  
LANTNAVFACENGCOM (Code 09A21E)  
CG, 2d MarDiv, FMF  
CG, 2d FSSG, FMFLant  
CO, MCSSS

Blind copy to:  
BMO  
PWO  
DUPH

ROUTING	
ORDR	INT
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ORG	INT



COMMENTS, CAMP LEJEUNE FY-84/88 MILITARY CONSTRUCTION PROGRAM

Early Submissions

1. As requested by reference (a), Projects P-786, Cold Storage Plant, and P-065, Gymnasium, French Creek, were submitted on 2 June 1981.

FY-84

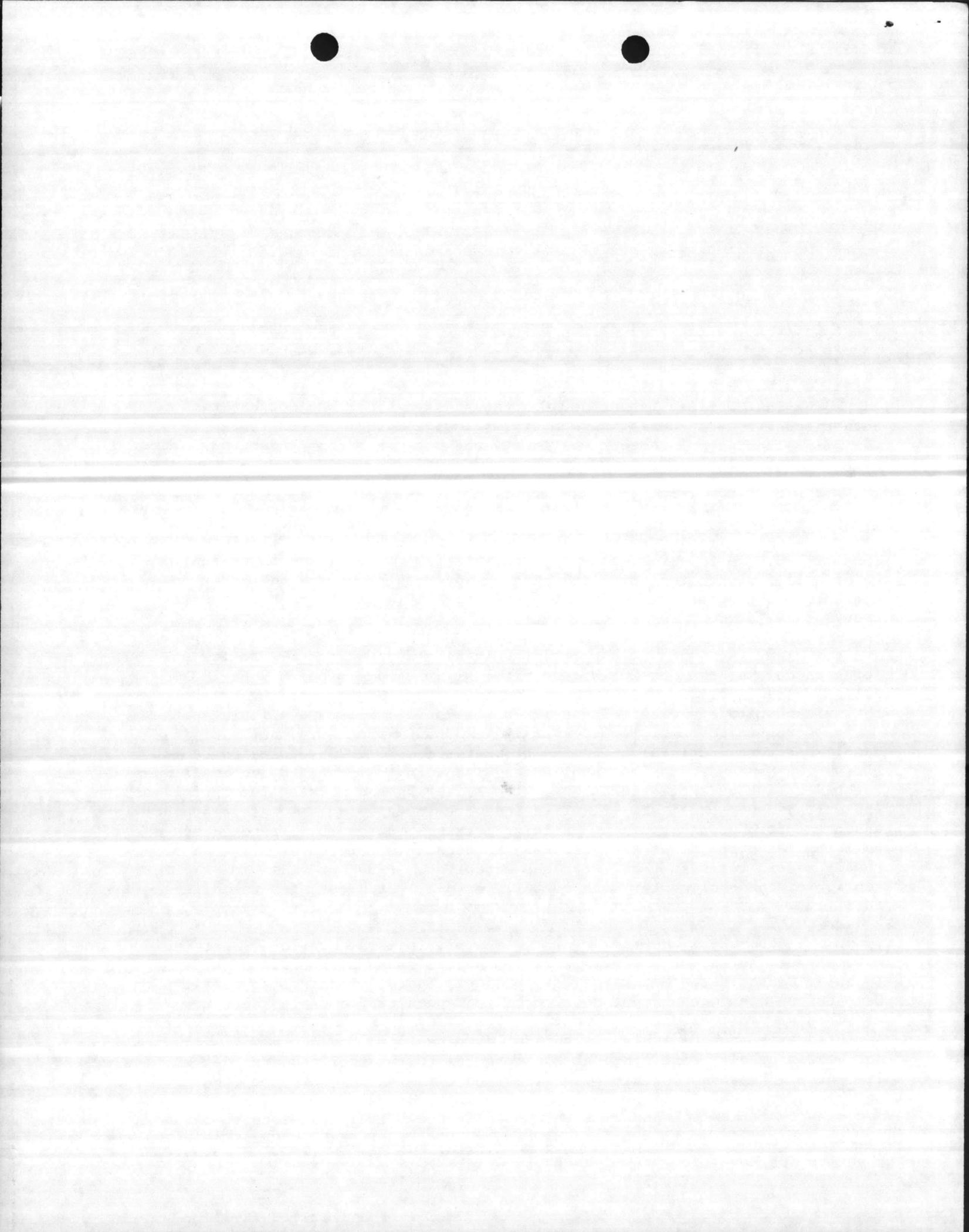
1. The first year (FY-84) of the Five-Year Program is laden with new or urgent requirements for utility support, new initiatives, or new missions. They are:

a. P-784, Utility Expansion, Courthouse Bay. This project has been authorized for early design and possible FY-83 funding. It is listed in the FY-84 funding program for continuity and because FY-83 funding has not been finalized.

b. P-785, Water Treatment Facilities Improvements, Hadnot Point, Tarawa Terrace, and Montford Point. P-785 has been authorized for design and is proposed for FY-84 funding. This project was submitted in 1980, but is resubmitted here to cover necessary scope increases to expand the Hadnot Point well field to replenish deminishing water supplies and the addition of a trunk main to connect the two water treatment plants in the Hadnot Point area.

c. P-802, Convert Old Hospital to Division Headquarters. Barring unforeseen delays, the new 205-bed hospital will be completed in June 1982. Patient care functions will be transferred by May 1983. Building H-1, the main hospital, and Building H-17, a warehouse, will be available to the Marine Corps in November 1983. A LANTNAVFACENCOM-sponsored contract will demolish several outlying buildings at that time. P-802 proposes space for a Division Headquarters, a consolidated disbursing office, and accommodations for other task organized functions, with billeting and messing for approximately 150 enlisted personnel who will live and work in Building H-1. This project is essential for occupancy of the building for these purposes. Proposed space/building retention plans are discussed in detail in reference (a). The proposals remain valid in P-802 with one exception. P-802 provides for the retention of the back center wing of Building H-1, which contains the dining facility.

d. P-628, UEPHs, Montford Point. New missions for Montford Point include: Movement of the Personnel Administration School from Parris Island to Camp Lejeune; Consolidated Motor Vehicle Operators School (located temporarily at Camp Geiger); and concurrent Motor Vehicle Mechanics Schools. These new missions are reflected in references (d) and (e). The addition of the Personnel Administration School, which is scheduled to begin in November 1982, will reduce existing billeting space at Montford Point down to 72 square feet per man. If P-628 is approved for FY-84 funding, and allowing 24 months for construction, new billeting space will not be available until January 1986. The next approved new mission for Camp Lejeune is the Consolidated Driver Training School, now to occupy facilities in a maintenance-only holding pattern at Camp Geiger, but scheduled for Montford Point when new facilities become available. Any delay



in approval of P-628 will seriously affect the ability to carry out these new missions.

e. P-808, Occupational Field 35 (OF 35) Mechanics School, Increment I. Beginning in FY-82, the existing 'M' series of Marine Corps motor transport vehicles will be replaced with a new suite of vehicles, which is an additional new mission for Montford Point. The phase-in/phase-out period will last through 1986. Trained mechanics will be required for both series of vehicles throughout the transition period, or until such time as the old series is completely phased out from the FMF. An exigent minor construction project has been submitted to HQMC to satisfy the initial receipt of new vehicles. That project provides for the erection of seven relocatable buildings to serve until permanent facilities can be provided. They are expected to be completed in October 1982. A series of three MCON projects for permanent facilities is programmed for FY-84, FY-85 and FY-86. The permanent facilities will satisfy deficiencies for all instructional facilities for the new suite of vehicles, including those being taught in the relocatable buildings, provided by the exigent project. The makeshift World War II facilities now being used will be demolished when the old 'M' series vehicles are phased out.

f. P-806, Light Armored Vehicle (LAV) Shop. Reference (f) announced the assignment of a new battalion scheduled for Camp Lejeune in 1985. P-806 is inserted in the FY-84 program, without scope or definition, as a matter of priority only since facilities do not exist for this mission. Project scope will be defined as information becomes available.

2. The remaining projects listed in the proposed FY-84 program are consistent with the approved HQMC program.

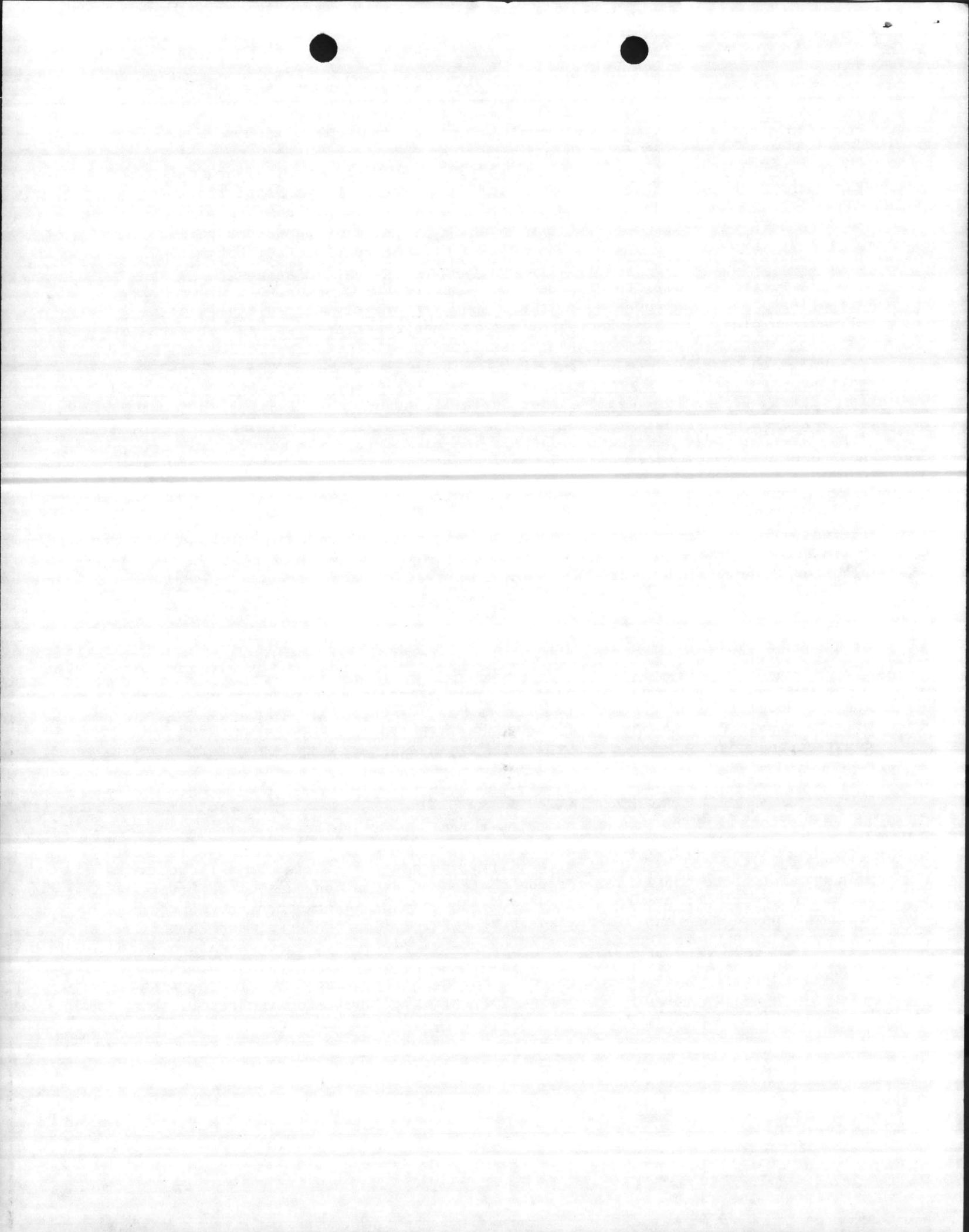
3. A collateral equipment list for portable items (nonconstruction) for P-802, Convert Hospital to Division Headquarters, and P-808, OF 35 Mechanics School, will be provided by separate correspondence. Build-in items that involve construction cost estimates are shown in all projects.

#### FY-85

1. The proposed FY-85 program contains three new projects, they are:

a. P-257, Field Maintenance Facility, Increment I. This project consist of new maintenance facilities for 2d Maintenance Battalion, 2d Force Service Support Group to perform regional 3d and 4th echelon maintenance on FMF equipment for the 2d Marine Division, 2d Force Service Support Group, and 2d Marine Aircraft Wing. Operations are now being performed in permanent warehouse facilities and other substandard makeshift facilities. The original definitive drawings for this facility, depicted in NAVFAC P-272, Part IV, call for one large (11 acre) building. Conforming to realistic annual funding levels, the field maintenance facility is broken down into four increments; P-257 for FY-85,

Enclosure (1)



P-803 for FY-86, P-804 for FY-87, and P-805 for FY-88. However, equipment flow patterns must have continuity for maximum operational efficiency. Accordingly, it is recommended that the PED or 35% design be accomplished for all four projects at the initial state in P-257. In addition to satisfying requirements for badly needed maintenance facilities, new facilities resulting from these four projects will liberate over a quarter of a million square feet of badly needed warehouse space. Reference (g) discusses warehouse storage problems at Camp Lejeune in detail.

b. P-790, Sewage System Improvements, Hadnot Point. Construction resulting from this project will satisfy requirements for additional sewer plant influent enhanced by an ongoing 7.7 million dollar pollution abatement project, P-996, to contain run-off at all wash and grease stations at Camp Lejeune.

c. P-809, OF 35 Mechanics School, Increment II. This is the 2d increment of the Mechanics School discussed in P-808, FY-84, above.

2. The remaining projects proposed for the FY-85 program are UEPH's, shops and admin facilities, and are in consonance with previously reviewed programs.

#### FY-86

1. New projects proposed for FY-86 are:

a. P-803, Field Maintenance Shop, Increment II. A continuation of P-257, discussed in FY-85, above.

b. P-810, OF 35 Mechanics School, Increment III. A continuation of P-808, discussed in FY-84 above.

2. The remaining projects are in consonance with previously reviewed programs.

#### FY-87

1. New projects proposed for FY-87 are:

a. P-807, OF 35 Driver Training School. An East Coast Motor Vehicle Operators Course (Consolidated Field Skills Training) will begin, temporarily, in the Camp Geiger area in FY-82. Ultimately, when new, permanent facilities become available at Montford Point (FY-87), the school will be collocated with the other MCSSS schools at Montford Point. The initial school will open at Camp Geiger in May 1982 in old facilities vacated by 2d Radio Battalion. This will include barracks, messing, administrative and instructional facilities. Construction/conversion will not be required and only minimal maintenance and repair will be performed on the existing facilities. New construction for shop and instructional facilities are programmed for Montford Point in the FY-87 Military Construction Program to satisfy long-range requirements with permanent facilities. This new mission is also reflected in the amendment to the Facilities Support Requirements document of reference (e).

Enclosure (1)



b. P-804, Field Maintenance Shop, Increment III. A continuation of P-257, discussed in FY-85 above.

2. The remaining projects proposed for FY-87 are in consonance with previously reviewed programs.

FY-88

1. New projects proposed for FY-88 are:

a. P-805, Field Maintenance Shop, Increment IV. This project concludes a series of four projects for 2d Maintenance Battalion, initiated in P-257, FY-85, above.

2. The remaining projects proposed for FY-88 are in consonance with previously reviewed programs.

Enclosure (1)

