

1. COMPONENT NAVY		FY 19 86 MILITARY CONSTRUCTION PROJECT DATA		2. DATE 1 AUG 1980	
3. INSTALLATION AND LOCATION MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542			4. PROJECT TITLE COMBAT VEHICLE MAINTENANCE SHOP		
5. PROGRAM ELEMENT		6. CATEGORY CODE 214-51	7. PROJECT NUMBER P-027	8. PROJECT COST (\$000) 1,600	

9. COST ESTIMATES				
ITEM	U/M	QUANTITY	UNIT COST	COST (\$000)
COMBAT VEHICLE MAINTENANCE SHOP	SF	16,120	76.19	1,228
BUILDING	SF	16,120	71.48	(1,152)
BUILT-IN EQUIPMENT	LS	-	-	(46)
SOLAR HOT WATER HEATING SYSTEM	LS	-	-	(30)
SUPPORTING FACILITIES	LS	-	-	231
SPECIAL CONSTRUCTION FEATURES	LS	-	-	(14)
UTILITIES	LS	-	-	(70)
ROADS, PARKING, SIDEWALKS	LS	-	-	(87)
SITE IMPROVEMENTS	LS	-	-	(38)
VEHICLE WASH APRON W/POLLUTION CONTROL	SY	445	50.00	(22)
SUBTOTAL				1,459
CONTINGENCY - 5%				73
TOTAL CONTRACT COST				1,532
SUPERVISION, INSPECTION & OVERHEAD - 5.5%				84
TOTAL REQUEST				1,616
TOTAL REQUEST (ROUNDED)				1,600
EQUIPMENT PROVIDED FROM OTHER APPROPRIATIONS				-

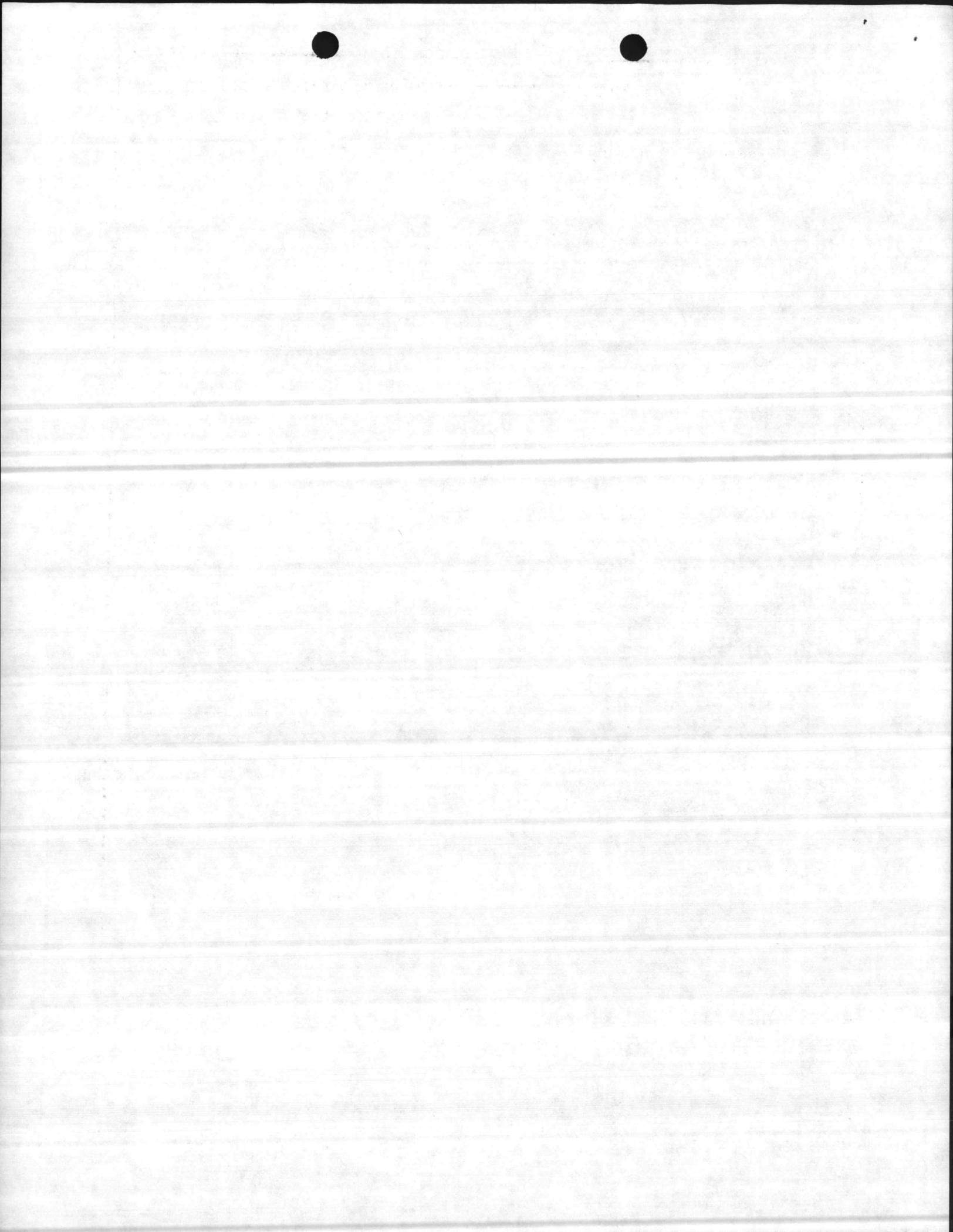
10. DESCRIPTION OF PROPOSED CONSTRUCTION
 Two-storied maintenance facility with high bays of reinforced concrete on pile foundation with masonry walls, concrete floors and roof, built-up roofing and insulation. Overhead doors in bay areas, fire protection and alarm systems, energy conservation and pollution abatement features are included in project. Wash aprons, pavements, security fencing and lighting, and utility connections are included. (Air conditioning: 6 tons.)

11. REQUIREMENTS: 178,827 SF ADEQUATE: 35,160 SF SUBSTANDARD: 5,068 SF
 PROJECT: Provide Combat Vehicle Maintenance Shop for 8th Communication Battalion of the 2d Force Service Support Group.
 REQUIREMENT: Combat Vehicle Maintenance Shop is required to carry out the prescribed maintenance program.
 CURRENT SITUATION: Maintenance programs are being performed in substandard WW-II buildings and metal buildings constructed in 1952 which do not meet the standards required to maintain the modern, sophisticated equipment used today and cannot be economically rehabilitated.
 IMPACT IF NOT PROVIDED: The 8th Communication Battalion vehicles will remain adversely affected, and maintenance capability and combat readiness will continue to be impaired.

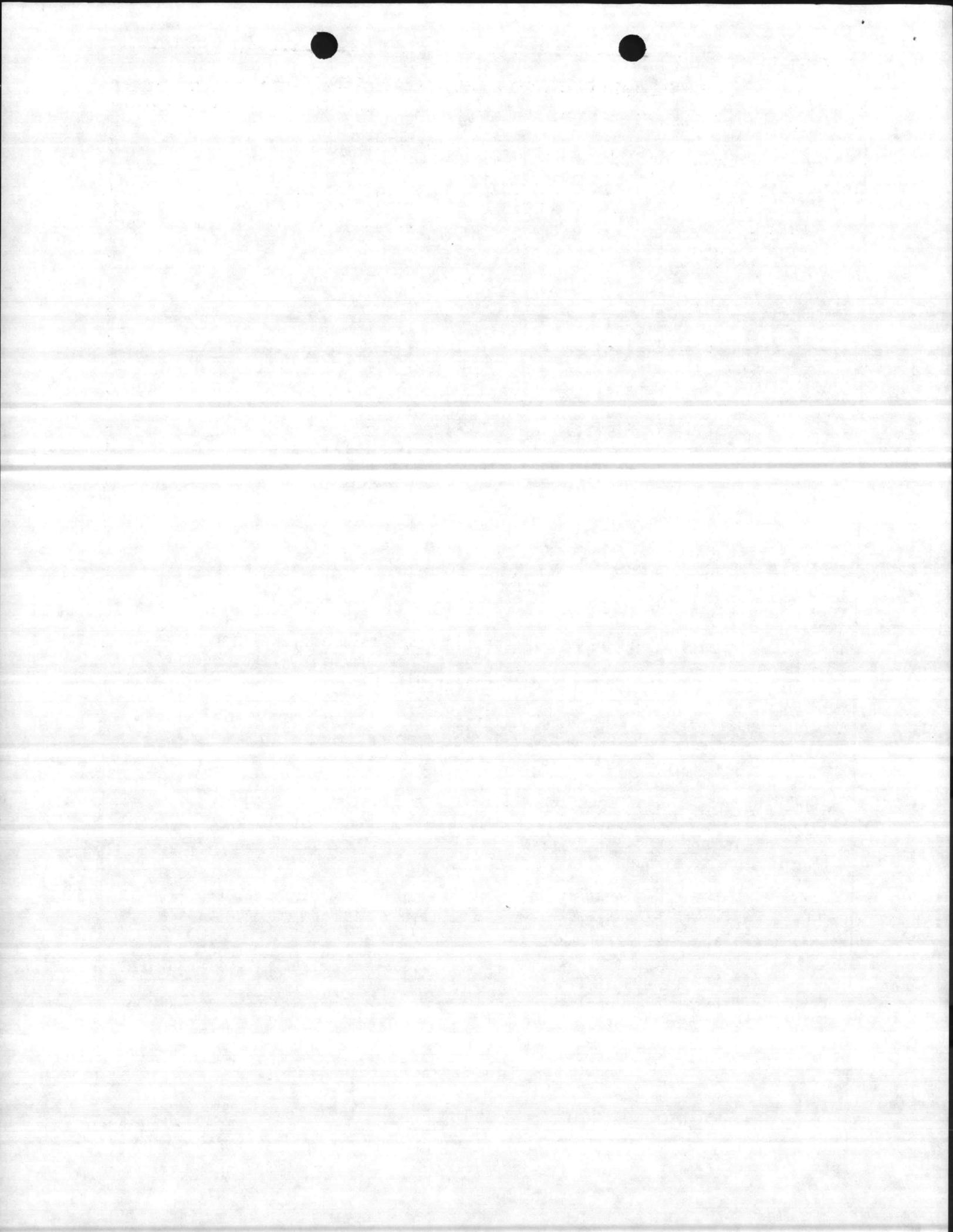
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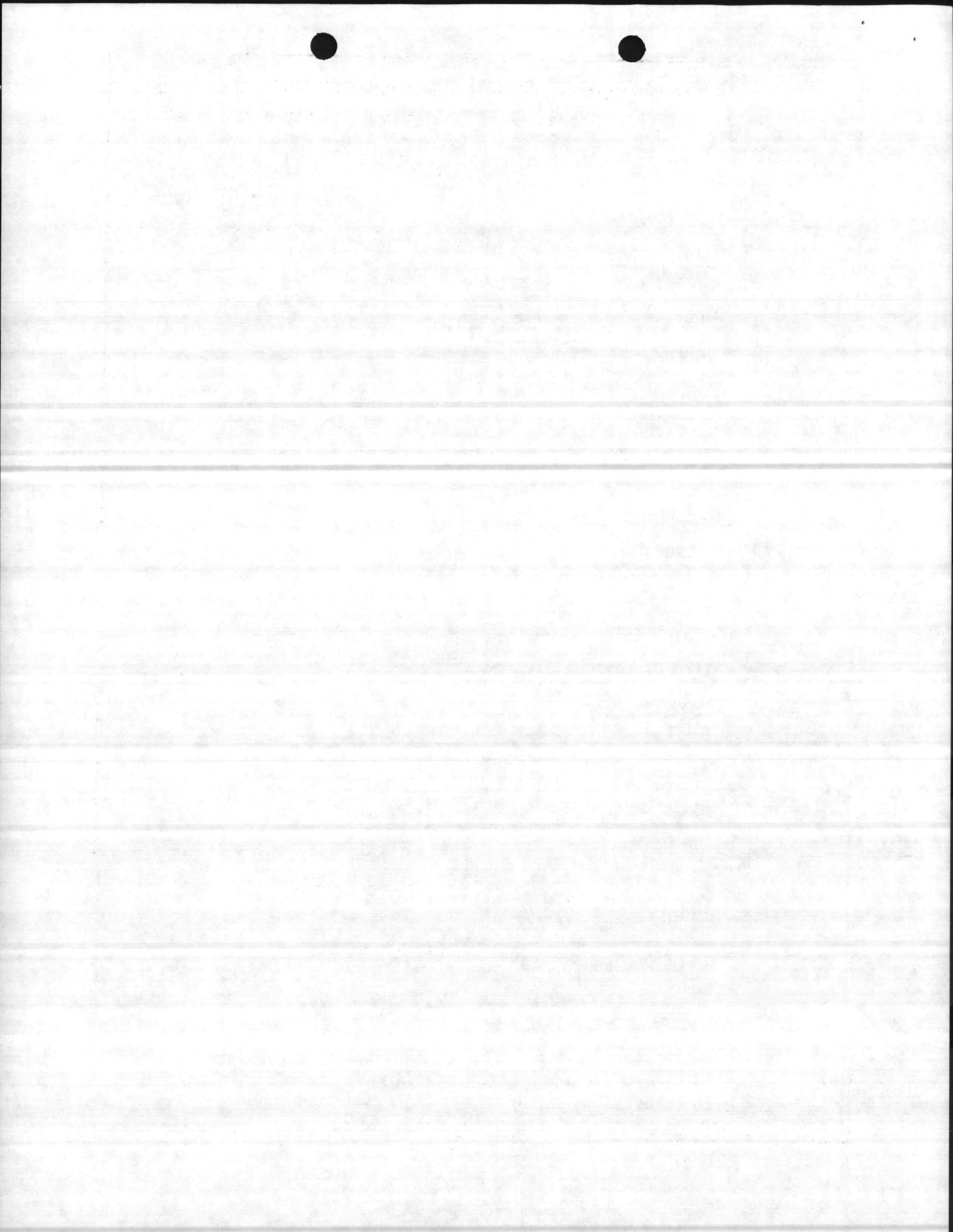
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<p style="text-align: center;"><u>SPECIAL CONSIDERATIONS</u></p> <ol style="list-style-type: none"> 1. <u>Pollution Prevention, Abatement, and Control</u>: This project will not cause additional air or water pollution. 2. <u>Flood Hazard Evaluation</u>: Requirements of Executive Order No. 11296 (Flood Hazards) are not applicable. 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. 4. <u>Fallout Shelter Construction</u>: Fallout shelter protection is incorporated in the facility. 5. <u>Design for Accessibility of Physically Handicapped Personnel</u>: Provisions for physically handicapped personnel are not required in this facility. 6. <u>Use of Air Conditioning</u>: Ceiling "U" factors will be made to conform with DOD 4270.1-M. 7. <u>Preservation of Historical Sites and Structures</u>: The project facility 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. 		



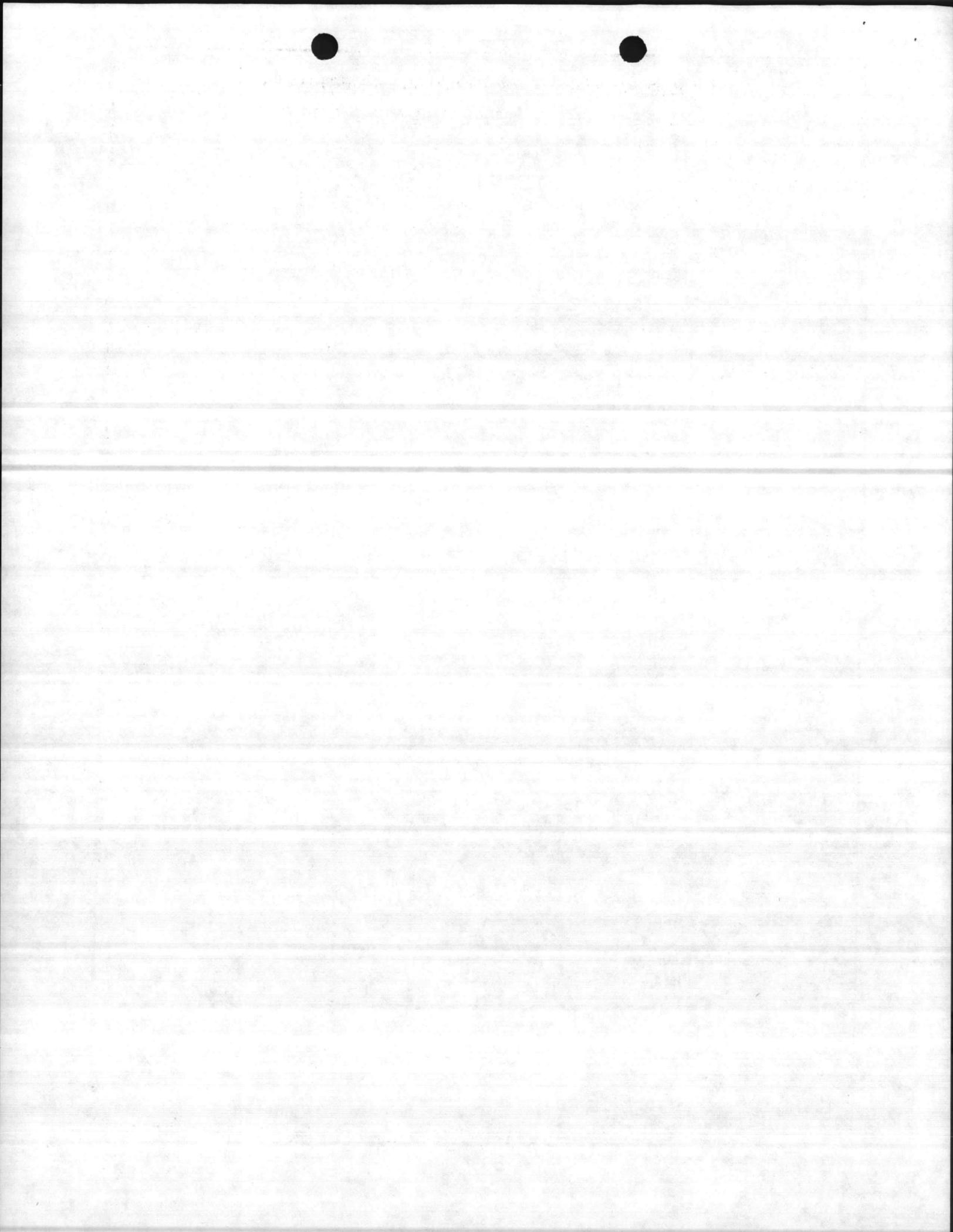
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<p style="text-align: center;"><u>FACILITY STUDY</u></p> <p>1. <u>Project.</u> Provide a Combat Vehicle Maintenance Shop for the 8th Communication Battalion of the 2d Force Service Support Group.</p> <p>2. <u>Current and Planned Future Workload with Regard to this Project.</u> The percentage of usage for this facility is 100 percent of the time, and the duration of need is indefinite. There is no projected decrease in the necessary maintenance and repair of organizational equipment required to be performed in the facility.</p> <p>3. <u>Description of Proposed Construction.</u></p> <p style="padding-left: 2em;">a. <u>Type of Construction.</u></p> <p style="padding-left: 4em;">(1) Permanent two-story wheel and tracked Combat Vehicle Maintenance Shop. Building of steel frame and masonry construction with pile and reinforced concrete foundation, floors and roof, masonry walls, built-up roof, insulation, interior and exterior utility systems.</p> <p style="padding-left: 4em;">(2) Reinforced concrete inspection/lube rack and wash aprons with pollution controls, walkways, parking pavements, security fencing and lighting, site improvements, and storage facilities.</p> <p style="padding-left: 2em;">b. <u>Replacement.</u> 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/steel/masonry structure on pile foundation.</p> <p style="padding-left: 6em;">(a) <u>Support Facilities.</u> Rigid and flexible pavements, demolition, security fencing and lighting, utilities, site improvements, storage facilities, and wash aprons.</p> <p style="padding-left: 4em;">(2) <u>Energy Conservation.</u> Energy efficient equipment and building orientation for maximum energy conservation will be utilized.</p> <p style="padding-left: 4em;">(3) <u>Collateral Equipment.</u></p> <p style="padding-left: 6em;">*Venetian blinds and window screens</p> <p style="padding-left: 6em;">*Air conditioning, heating, and ventilating systems</p>		



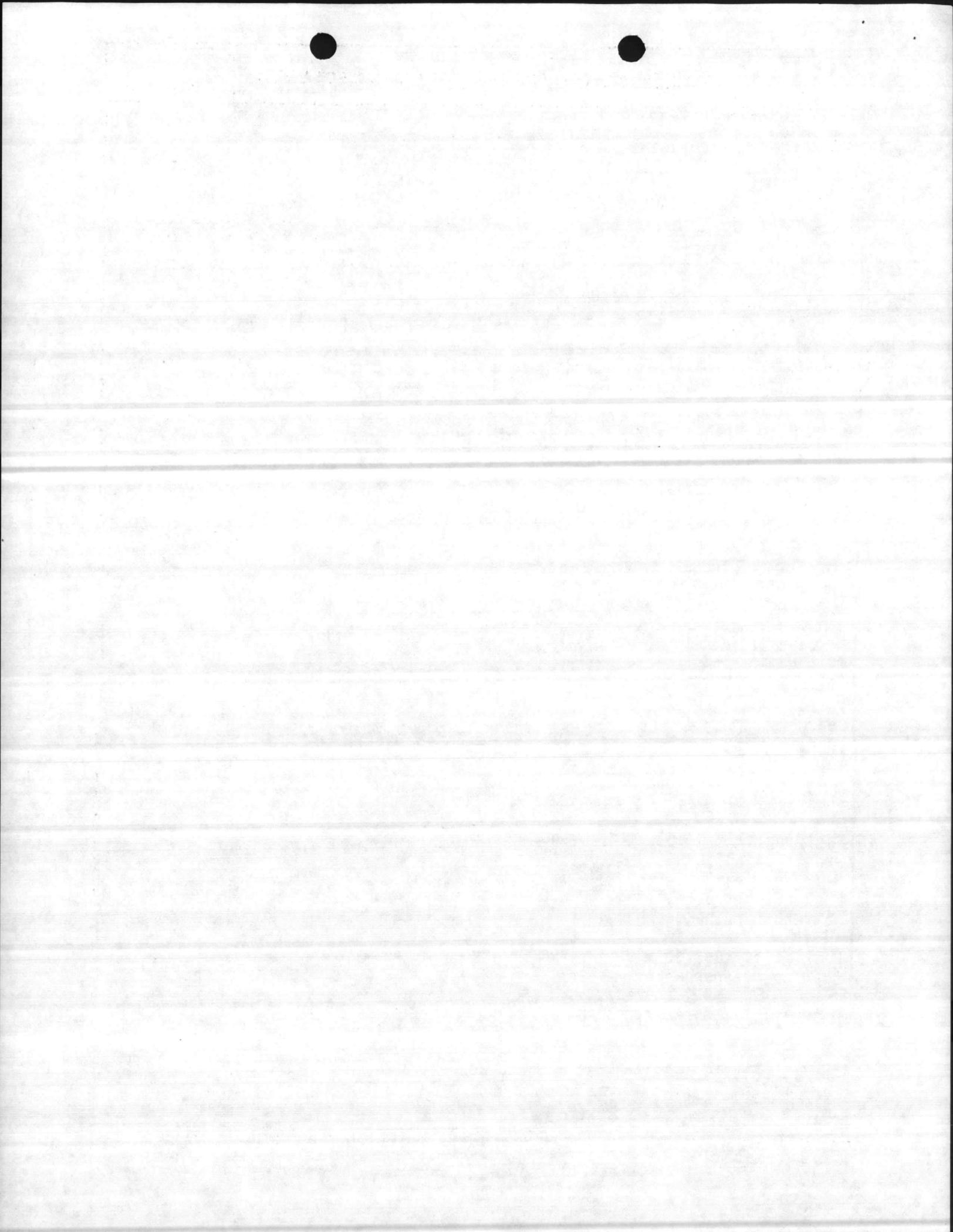
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<ul style="list-style-type: none"> *Interior steam system *Plumbing System *Compressed Air System *Used Oil System *Vehicle Fueling System *Sprinkler System *Telephone, Fire Alarm, and Intercom Systems *Drinking Water Coolers *Lockers *Chalkboards *Engine Starting Outlets: 12, 24, & 36 volts *Tire Changer, elec-air, Bishman Co., fractional HP, 280V, 3-phase, 3-wire, 150 PSI, comp air *Air Hose Reel, 150 psi, HD, w/hose stop (ceiling, wall, or pedestal mounted), provide water separator *Elec Extension Cord Reel, HD, w/cord stop (ceiling, wall, or pedestal mtd), 120V, 1 phase *Water Hose Reel, HD w/hose control valve & hose stop (ceiling, wall or pedestal mtd), CW *Hose Reels Assembly, w/control valves, HD, over-head, automatic hose stops & meters, 150 PSI comp air, 1 chassis lube, 1 hydraulic oil, 2 mtr oil, 1 gear oil, provide water separator 		



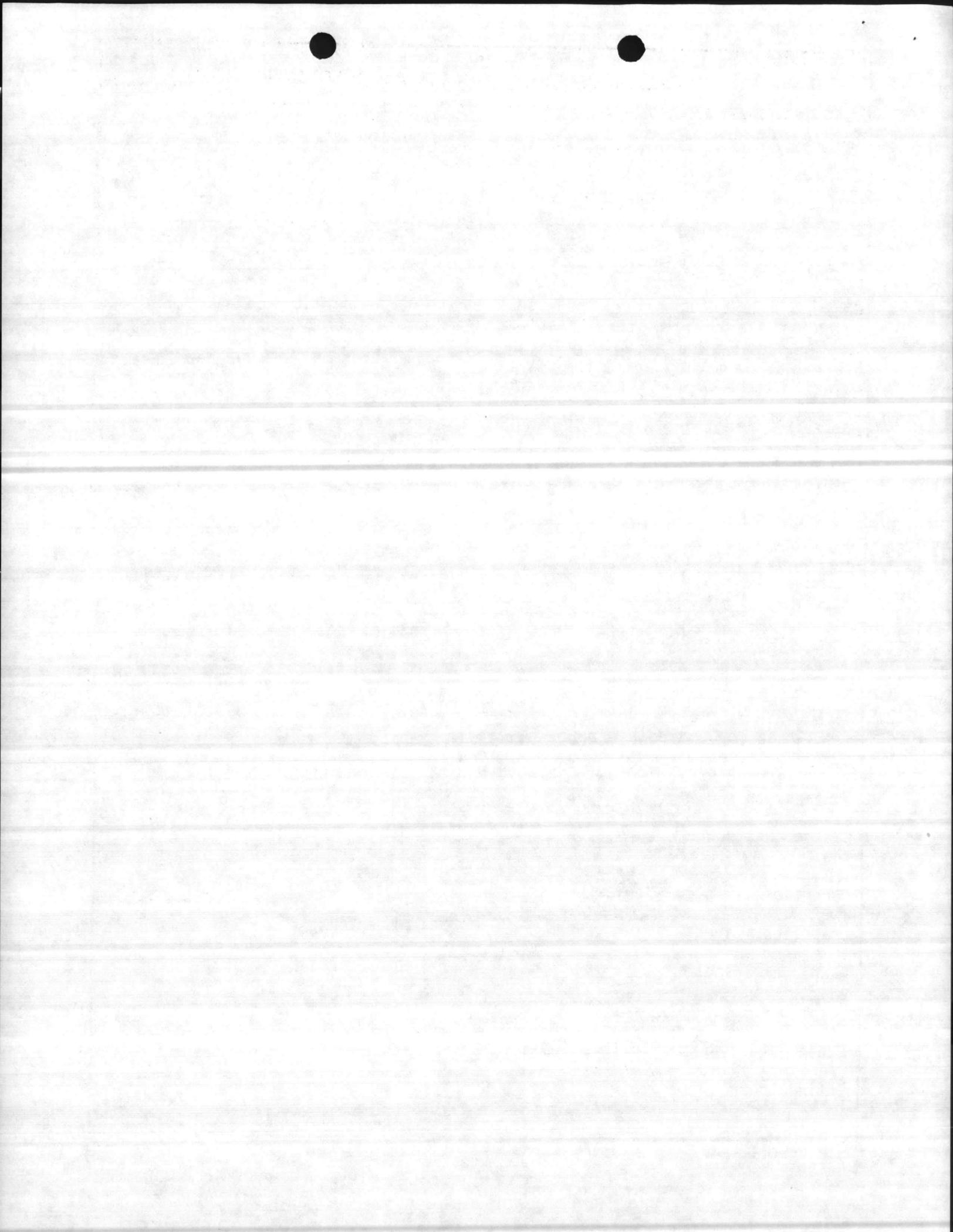
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<p>*Exhaust System, overhead, fractional HP, 220V, 3-phase</p> <p>*Deluge Shower, w/eye wash, CW</p> <p>*Outlets for Portable Arc Welder (grounded)</p> <p>*Acid Resistant Sink, CW</p> <p>*Exhaust Hood (over), fractional HP, 110V, 1-phase</p> <p>*Pass Window, 4' wide w/counter & "B" label roll-down shutter (w/fusible link), if required</p> <p>*Counter, dispatcher's</p> <p>*Lube Dispensing Equipment, w/access (couplers, valves, regulators, etc.)</p> <p>*Air Pumps, 400 lb drums for oil (crassis, gear, motor oil, trans & hydraulic fluid), as required</p> <p>*Twin Post Pneumatic Lifts, one HD, 24,000 lb cap, 150 psi comp air</p> <p>*Air Compressor, 150 psi (2-stage, 32 CFM), 3-phase, 3-wire, 220V, 15 HP</p> <p>*Twin Post Pneumatic Lift, LD, 11,000 lb cap, 150 psi comp air</p> <p>*1-Ton Overhead Monorail, 1-$\frac{1}{4}$ HP, 220V, 3-phase, 60-cycle, 120V power to controls & switches</p> <p>*Equipment with associated installation cost.</p>		



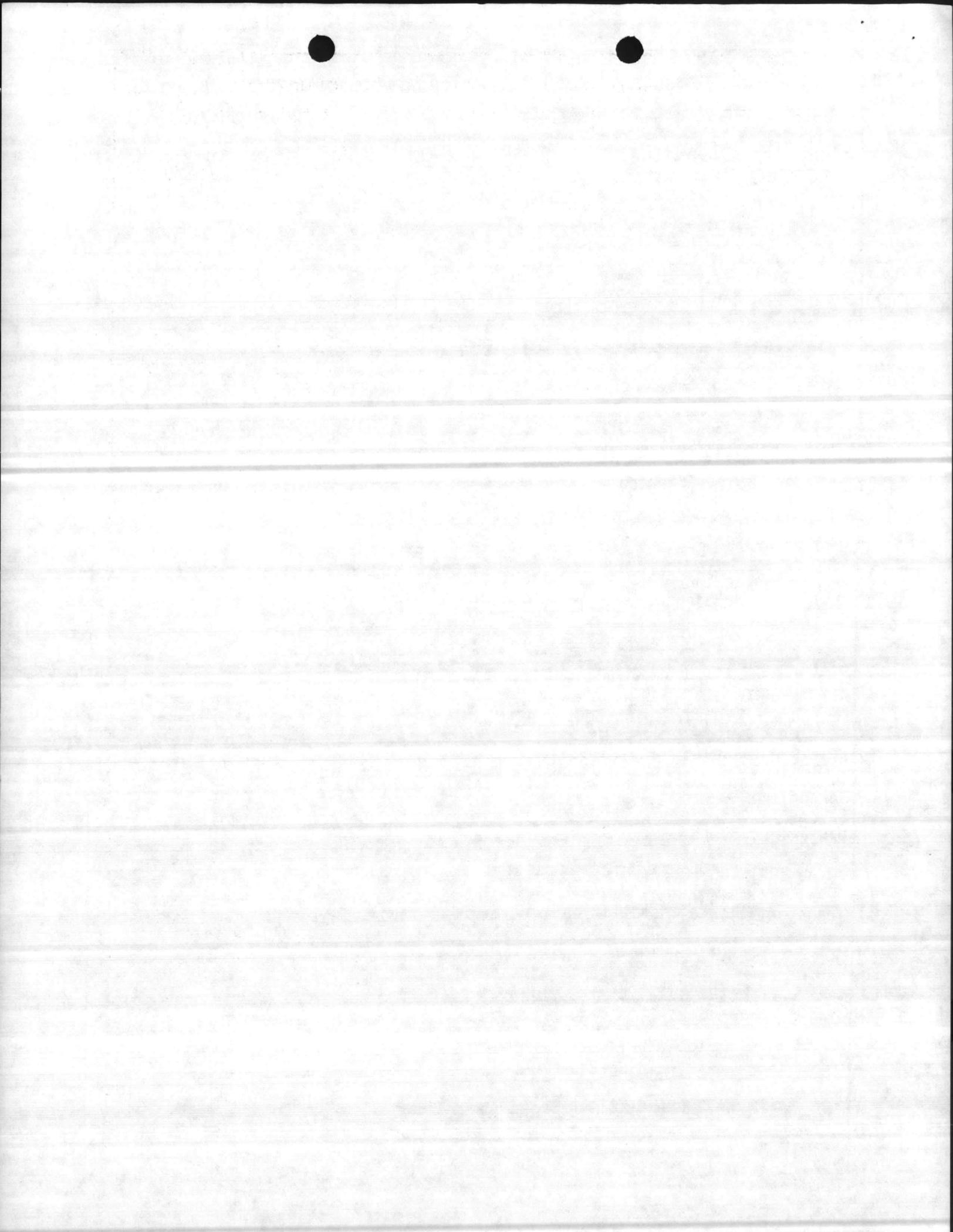
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(b) <u>Expense Items</u>					
<u>Description</u>		<u>Qty</u>	<u>Unit of Issue</u>	<u>Unit Price</u>	<u>Total Cost</u>
Benches, work, portable, 48"x28"x34"H		20	EA	\$225	\$4,500
Benches, work, portable, 72"x28"x34"H		6	EA	340	2,040
Benches, work, stationary, 28"Cx34"H, steel top, standard, lead covered in battery shop		6	EA	375	2,250
Bins, parts, adj. shelving, 14"Wx24"D		8	EA	75	600
Rack, tire storage, 3-tiers high		2	EA	710	1,420
Bins, parts, rota, 3' dia, multi-bin		10	EA	360	3,600
Saw, power, hack, 1½ HP, 220V, 3-phase		1	EA	600	600
Welder, Heli-arc, AC/DC shop type, 300 AMP		1	EA	500	500
Vulcanizer, tire, HD, vulcanizing molds		1	EA	1,120	1,120
Tank, test (water), 24"x50"x18", CW		1	EA	360	360
Kit, acetylene, cutting & welding		1	EA	475	475
Charger, battery, 12V, 24V, 36V selenium type; battery tester, 12V, 24V, 36V, 2.2KW, 110/220V		2	EA	550	1,100
Shelving, 14" w/adj. standards		6	EA	120	720
Shelving, 12" w/adj. std, 6 shelves, 36" wide & 84" high		6	EA	90	540
Desk, flat top, dbl ped, 60"x30", walnut pattern top, no overhang		6	EA	315	1,890
Desk, flat top, 45"x30", walnut pattern top, no overhang		6	EA	240	1,440
Desk, flat top, w/attachment, f/sect. & gen. clerical purposes		6	EA	275	1,650
Chair, rotary, tilting seat & back, adj. seat height, w/arms, w/casters		12	EA	94	1,128



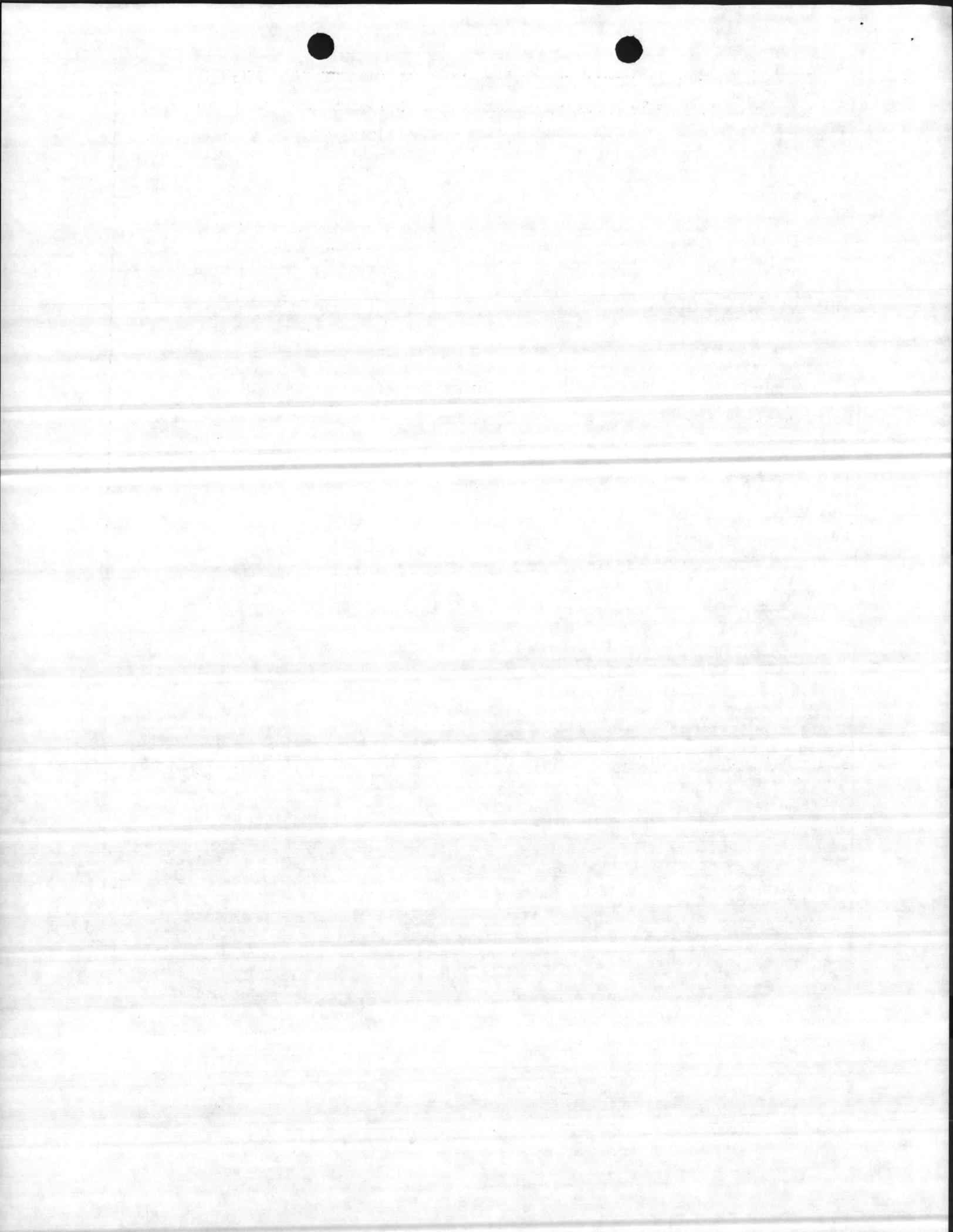
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1. COMPONENT NAVY	FY 19 86 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 AUG 1980
3. INSTALLATION AND LOCATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
4. PROJECT TITLE COMBAT VEHICLE MAINTENANCE SHOP	5. PROJECT NUMBER P-027	
<p>(4) <u>Supporting Facilities.</u> Special piling, foundation, waste water collection system, collateral equipment, site improvement, solar hot water system, pollution abatement.</p> <p>4. <u>Cost Estimate.</u> Area cost factor for Camp Lejeune, N. C. is 0.95. Cost data derived from the Military Construction Cost Review Guide, FY-82 (DOD 4270.1-CG), and escalated to FY-82 to provide for this proposed facility.</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 the 8th Communication Battalion with adequate and secure facilities to perform combat vehicle maintenance and operations.</p> <p>(2) <u>Current Situation.</u> Personnel are working in substandard temporary WW-II Butler type metal buildings with open bays and oil space heaters for heat and makeshift facilities located in the Hadnot Point Area.</p> <p>(3) <u>Impact if not Provided.</u> Personnel will continue to function in substandard and makeshift facilities, resulting in time-consuming and inefficient operations with loss of work time and wasted energy.</p> <p>b. <u>Justification for Scope of Project.</u> The project scope, 16,120 SF is the minimum size facility that can meet the space requirements for the Combat Vehicle Maintenance Shop needs of the 8th Communication Battalion, 2d FSSG. See Item 13 for existing facilities presently in use.</p> <p>6. <u>Equipment Provided from Other Appropriations.</u> Not applicable.</p> <p>7. <u>Common Support Facilities.</u> There are no common support facilities available for the 2d FSSG.</p> <p>8. <u>Effect on Other Resources.</u> The project will require approximately \$11,761 per year in increased O&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 substandard facilities. Proposed construction should be responsible 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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UTILITY REQUIREMENTS

- a. **Electricity:**

Consumption	<u>42,966</u> KWH/yr
Peak Demand	<u>35</u> KW
Avg. Demand	<u>26</u> KW

- b. **Steam:**

Consumption	<u>13,823,405</u> lbs/yr
Demand	<u>2,221</u> lbs/hr

- c. **Coal:** 242.8 tons/yr

- d. Adequate utility requirements are available.

9. Siting of the Project. The facility is located in the French Creek Area and is in compliance with the latest Camp Lejeune Master Plan. See enclosure (1).

10. Other Graphic Presentations, including Photographs. None.

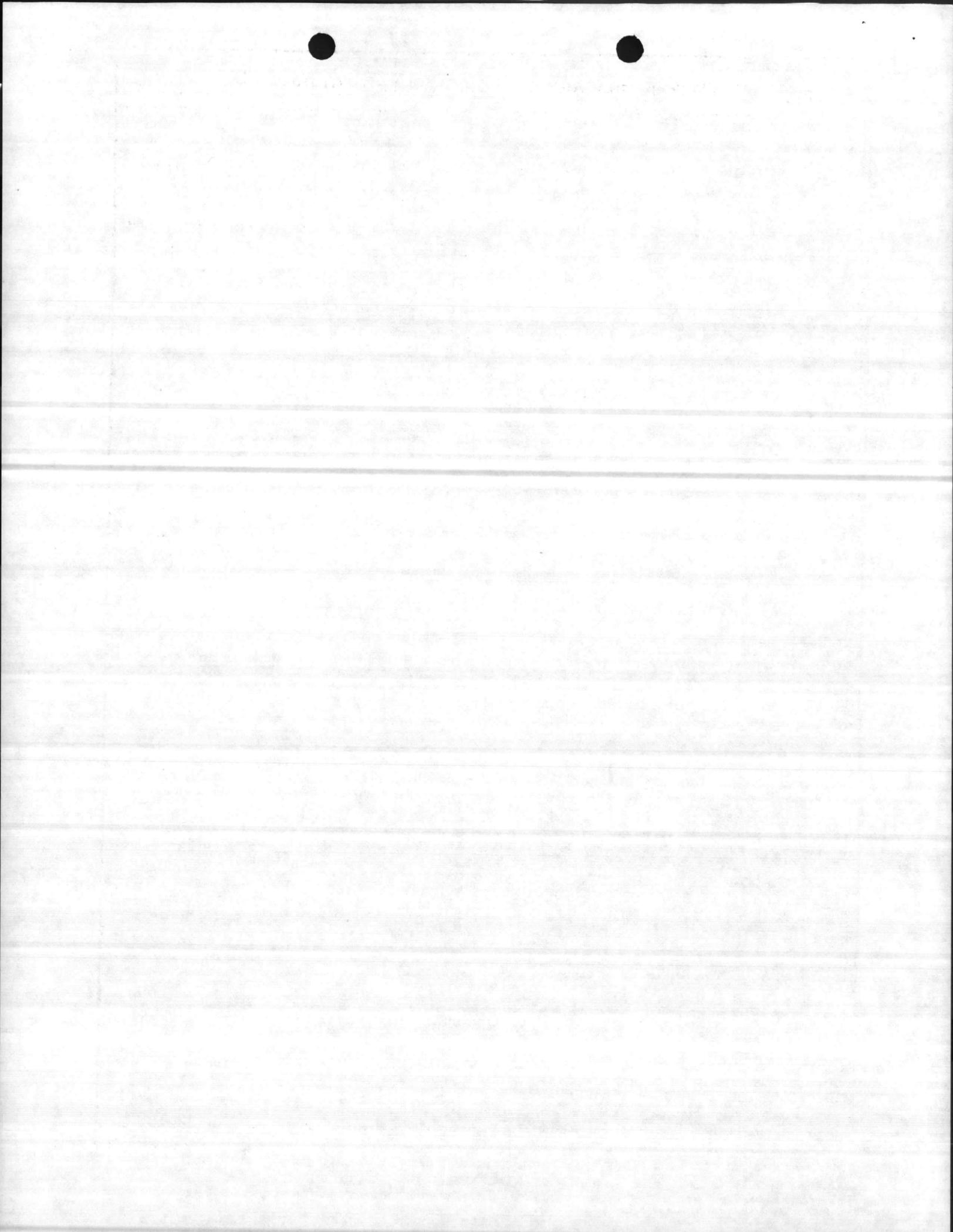
11. Economic Analysis. This facility is being constructed on an undeveloped site in the French Creek Area. Economic saving will be in nominal energy consumption realized from efficient operations. This is a military operational project in support of an operational mission located in this area.

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

13. Quantitative Data.

a. BFRL Requirement (French Creek Area (EA)): 178,827 SF. NAVFAC P-80 states that the requirement for Category Code 214-51, Combat Vehicle Maintenance Shop, is determined from definitive drawings given in NAVFAC P-272, Part IV. The total requirements are 178,827 SF.

<u>NAVFAC Drawing No.</u>	<u>Activity</u>	<u>Area (SF)</u>
1294443 1294499 1294505	Headquarters & Service Battalion	26,570
-	2d Radio Battalion	11,480
1294447	2d Maintenance Battalion	12,180



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3. INSTALLATION AND LOCATION
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

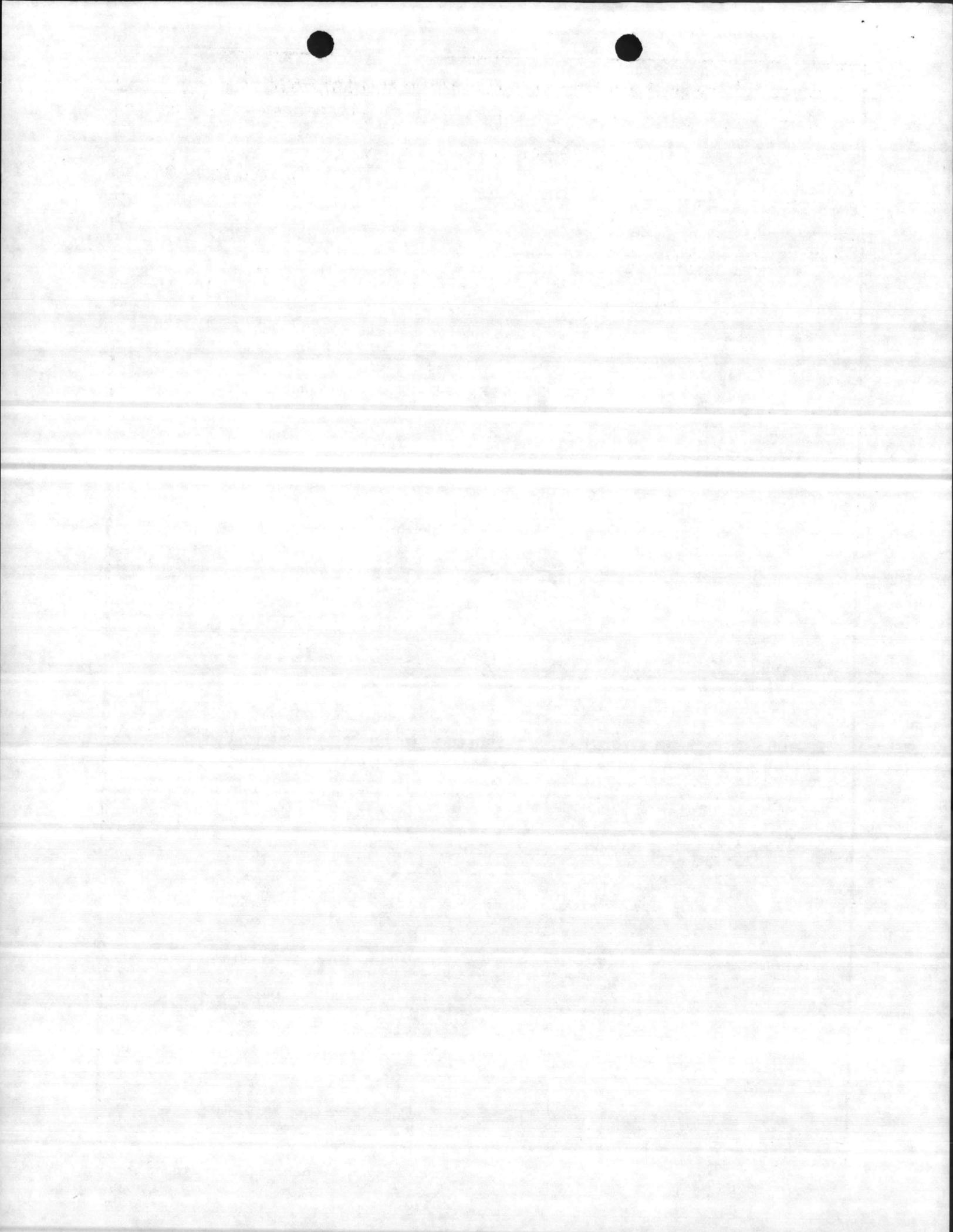
4. PROJECT TITLE
COMBAT VEHICLE MAINTENANCE SHOP

5. PROJECT NUMBER
P-027

<u>NAVFAC Drawing No.</u>	<u>Activity</u>	<u>Area (SF)</u>
1293380	2d Supply Battalion	10,650
1294449	8th Communication Battalion	16,120
1294448 } 1294498 } 1294505 }	8th Engineer Support Battalion	31,680
1294446 } 1294505 }	8th Motor Transport Battalion	23,460
-	2d ANGLICO/Force Recon Company	14,413
1293376	2d Medical Battalion	8,500
1293378	2d Landing Support Battalion	<u>18,280</u>
<u>TOTAL:</u>		173,333

b. Existing Assets:

<u>FACILITY NO.</u>	<u>TOTAL ASSETS (SF)</u>	<u>REMARKS</u>
FC-100	(31,160)	Substd - To be converted to CCN 214-53.
GP-1	(4,000)	Substd - To be demolished upon completion of P-255.
GP-19	(4,000)	Substd - To be demolished when deficiency is satisfied.
GP-21	(960)	Substd - To be demolished upon completion of P-255.
STC-776	(108)	Substd - To be demolished upon completion of P-255.
739	(4,000)	Substd - To be demolished when deficiency is satisfied.



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4. PROJECT TITLE COMBAT VEHICLE MAINTENANCE SHOP		5. PROJECT NUMBER P-027
<u>FACILITY NO.</u>	<u>TOTAL ASSETS (SF)</u>	<u>REMARKS</u>
746	(960)	Substd - To be demolished when deficiency is satisfied.
TOTAL FOR CCN 214-51: (45,188) 0		SUBSTANDARD ADEQUATE
c. <u>Planned Facilities.</u>		
<u>PROJ. NO.</u>	<u>AREA (SF)</u>	<u>STATUS</u>
P-533	14,413	Completed; not in 10651.
P-255	11,480	Under construction.
P-562	18,280	FY-83 Program.
P-563	8,500	FY-84 Program.
P-240	10,650	FY-84 Program.
P-276	12,180	FY-84 Program.
P-054	26,570	FY-84 Program.
P-027	16,120	FY-86 Program.
P-517	23,460	FY-87 Program.
P-266	31,680	FY-87 Program.
SUBTOTAL: 173,333		PLANNED
SUBTOTAL: 0		TOTAL EXIST. ASSETS (ADEQUATE)
TOTAL: 173,333		
BFRL TOTAL: 178,827		

