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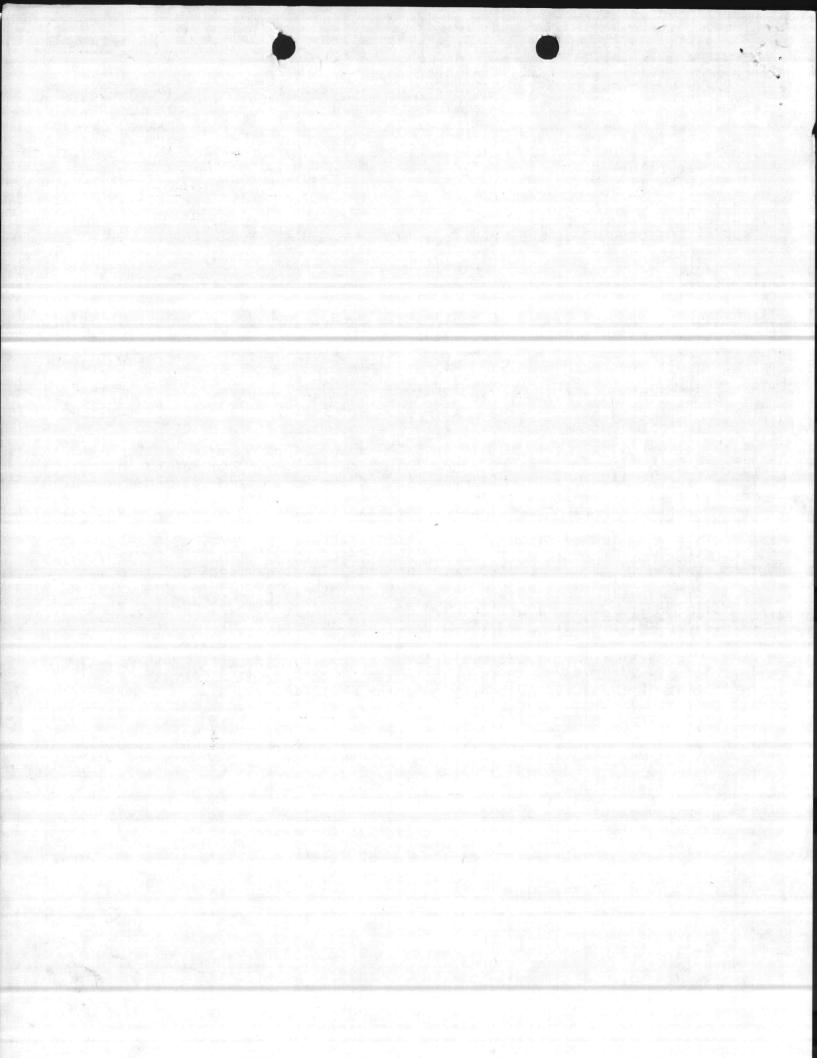
- From: Commanding General
- To: Commandant of the Marine Corps (Code LFS-3)
- Subj: Collateral Equipment Requirements for MCON Projects to outfitted in FY-83
- Ref: (a) CIE 1tr LFS-3/5/s1g 7100 of 29 Jun 1982
 - (b) MCO 10160.86
 - (c) Phonecon blum Hr. G. Jones (Publiks, MCB, CLNC) and Hr. R. Oliver (Code LFS-3, ChC) of 14 Jul 1982
- Encl: (1) LANTDIV Form 11010/5 (Collateral Equipment Requirements) for P-175, Elec/Comm Fint Shop, of 23 Apr 82 "
 - (2) LANTDIV Form 11010/6 for P-414, UEPH, of 13 Apr 82
 - (3) LAHTDIV Form 11010/6 for P-506, Fld Int Shop (Para), of 7 May 1982
 - (4) LANTOLY Form 11010/6 for P-526, Combat Veh Fint Shop, of 7 May 1982
 - (5) LAHTDIV Form 11010/6 for P-697, Dining Fac Hod, of 24 Nov 1980

1. Reference (a) requested validation and certification of the collateral equipment listings for each NCON project to be outfitted in FY-83. Accordingly, enclosures (1) through (5) have been validated and are forwarded for continued processing. Further, in compliance with reference (b), I hereby certify that the requested item/items are not available from excess or surplus within the local command or geographic location and that procurement action is in full compliance with Federal Property Management Regulations, sections 101-25, 104, 101-26.101, and 101-43.3.

2. As discussed during reference (c), the collateral equipment listing for Project P-597 (enclosure 5) is in the process of being updated and will be forwarded by separate correspondence as soon as possible.

K. P. MILLICE, JR. By direction

Blind copy to (w/o encls) AC/S Fac AC/S Log

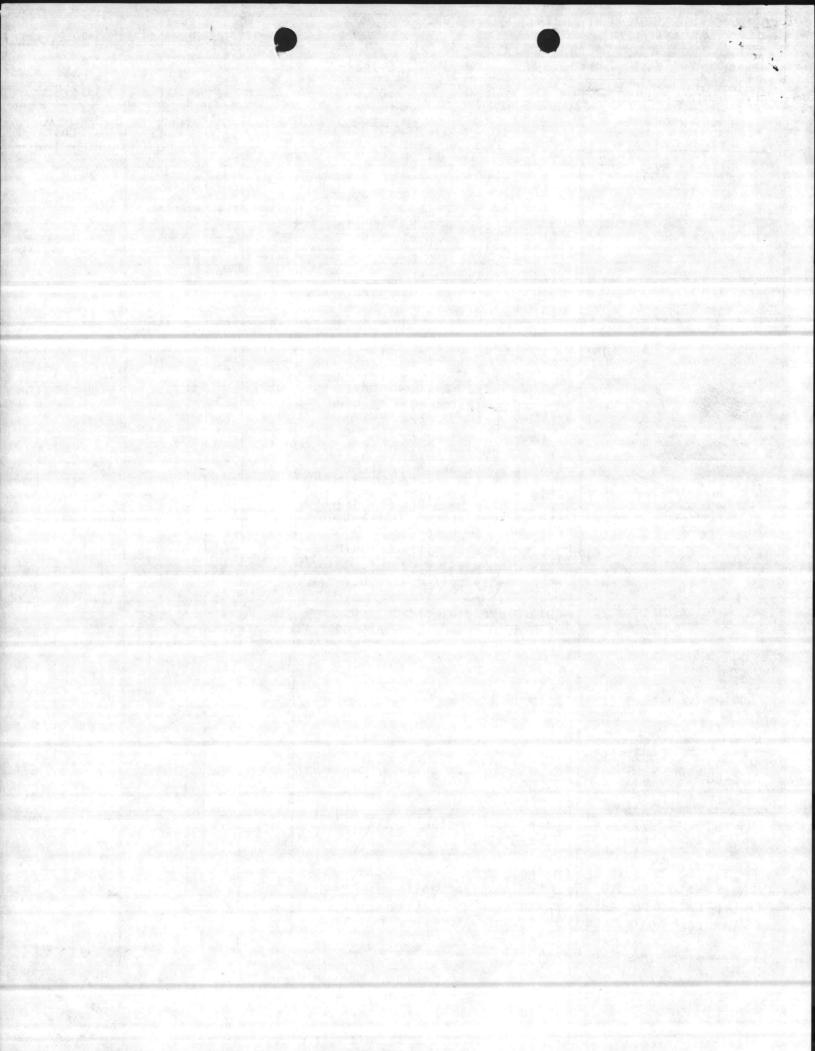


ACTIVITY (Name and Location)	LEJEUNE, NORTH CAROLINA 28542	1		entre der a ser a	Sector and
PROJECT TITLE			100	1. (1.5) (1.14) 	P. NO.
ELECTRONICS/COMMUNICATIO	DNS MAINTENANCE SHOP (DIV HQ BN)	10.00	lusurt		P-175
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT	COST
 BUILT-IN EQUIPMENT TO BE MCON FUNDED *Equipment with associa 	<pre>*Air-conditioning, heating, and ventilating systems *Plumbing system *Steam system (interior) *Compressed air system *Telephone, intercom & fire alarm system *Drinking water coolers *Crane, overhead - 5 ton capacity *Lockers *Locker-room benches, 6' long *Chalkboards, wall mounted *Board, bulletin, wall mounted *Board, bulletin, wall mounted *Counter, dispatchers *Blinds, Venetian *Exhaust system, overhead, frac- tional HP, 208V, 3 phase *Deluge shower, w/eye wash, CW *Acid resistant sink, CW, w/bench *Exhaust hood (over) w/fraction HP, 120V, 1 phase fan *Grounding system, electronic *Pass window, 4' wide, w/counter & "B" label roll down shutter w/fusible link *60/400 cycle electrical system with AC/DC power bus bar and transformers ted installation cost.</pre>		EA EA EA EA EA EA EA EA EA EA EA EA EA E		
2. EXPENSE ITEMS			2 - 1019		1.12-1.1
7195-00-926-5939	Bench, work portable, 48"x28"x 34"H	20	EA	154.58	3,092
4910-00-543-7771	Bench, work portable, automotive, 72"x28"x34"H	10	EA	356.00	3,560
9765T1 McMaster-Carr Supply Company, P.O. Box 4355 Chicago, Illinois 60680	Cabinet, tray top acid storage 37"wx21-11/16"Dx31"H, for use in battery or acid areas. Acid resistant without eye wash.	_م 6	EA	398.00	2,388

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COLLATERAL EQUIPMENT	REQUIREME (Initial Outfitting)	
5ND LANTDIV 4-11010/6 (NEW 2-79)		

1. ACTIVITY (Name and Location)

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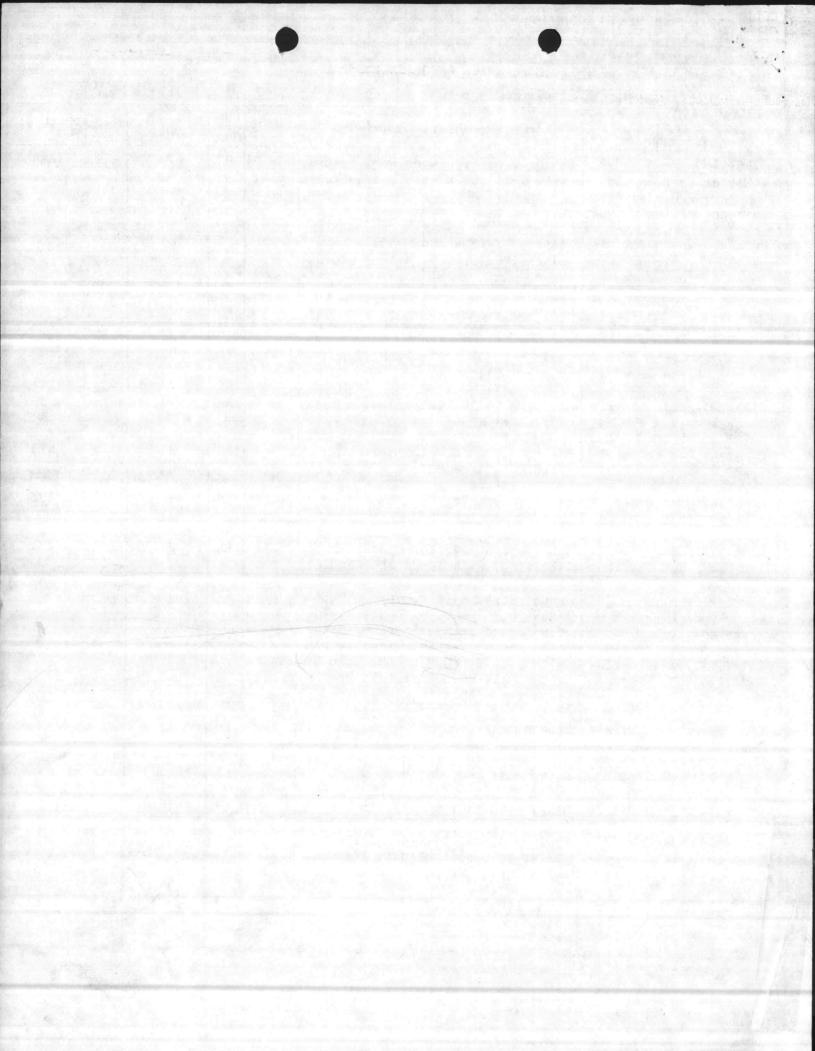
MARINE	CORPS	BASE,	CAMP	LEJEUNE,	NORTH	CAROLINA	28542	
and the second s								

DATE 23 APR 1982

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2. PROJECT TITLE ELECTRONICS/COMMUNICATIO	ONS MAINTENANCE SHOP (DIV HQ BN)	an san sa			р. NO. P-175
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	
5150T14 McMaster-Carr Supply Company, P.O. Box 4355 Chicago, Illinois 60680	Cabinet, parts, 18 drawer, welded steel, 11"x5¼"x2-5/8", adjustable cross dividers	5	EA	135.92	680
98-444 with 18-909 Bins AKRO MILS, Akron, Ohio 44309	Storage-go-round, parts bins, 31"wx31"Dx60"H, 45 drawer storage	4	EA	900.00	3,600
6130-00-882-6724	Charger, battery, 6 and 12 volts, 2.2KW	4	EA	385.52	1,542
26-s-32850-258 Federal Prison Systems	Shelving, 24"Dx36"Wx87"H, Type A closed, Class III	30	EA	93.05	2,792
7125-331-8401 Federal Prison Systems	Shelving, 18"Dx108"Wx87"H, Class III	26	EA	93.45	2,430
Carolina Office Supply T5-2307	Board, bulletin, alum frame, 4'x6', 1¼" frame	7	EA	82.00	574
Carolina Office Supply T5-80E	Easel, portable, 29"x40", expandable to 70"	2	EA	96.00	192
26-s-32879-152 Federal Prison Systems	Doors, security, for storage shelving, with locks and handles	10	PR	33.10	331
438-EN-10L with Model L Rack Pressteel Co., 9705 Garvey Ave., Elmonte, Calif. 91733 TEL: 213- 283-1225 Sales Rep: Mr. Boyde Lowery	Bench, work, electronic, 96"Lx36" Wx35½"D, plywood with pressweld #10 top covering, 5 drawers at each end, lockable, steel, wired with 18 AWG, 400HZ, 60HZ, and 28VDC, all on 20A circuit breaker separate with pilot indicator.	15 s,	EA	1,390.00	20,850
OP - Heywood Wakefield, Mod. #HC-7730-PABS-PP	Student chairs	32	EA	44.00	1,408
GSA - 7110-00-149-1630	Desk, flat top, dbl ped	3	EA	225.00	675
GSA - 7110-00-149-1628	Desk, flat top, single ped	9	EA	186.00	1,674
GSA - 7110-00-082-6229	Chair, rotary, tilting seat & back, adj. seat height, w/arms, w/casters	17	EA	58.00	986
GSA - 7110-01-015-1361	Desk, single ped, for desk attachment	9	EA	192.00	1,728

Page 2 of 4

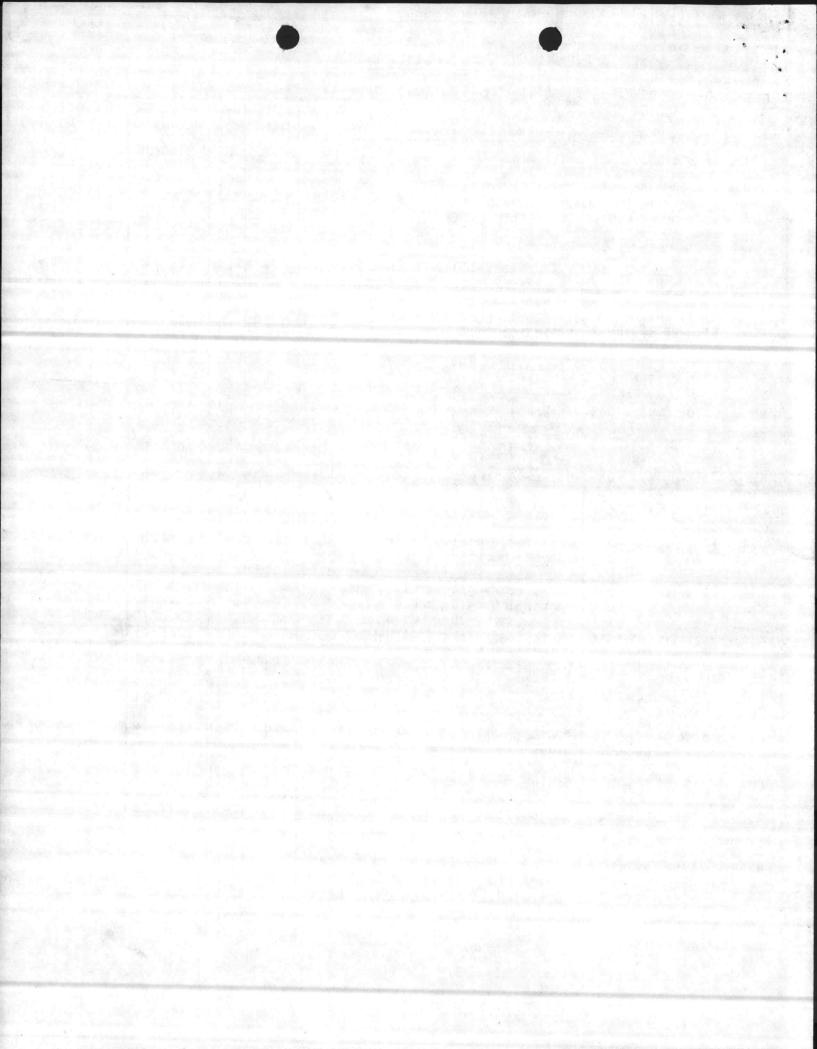


9		LEJEUNE, NORTH CAROLINA 28542	jana na ta	<u>Sector</u>	Conference of	10.00
2	2. PROJECT TITLE ELECTRONICS/COMMUNICATIONS MAINTENANCE SHOP (DIV HQ BN)					Р. NO. Р-175
	COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT	TOTAL COST
	GSA - 7110-01-016-6580	Desk attachment	9	EA	140.00	1,26
	GSA - 7110-00-958-8044	Chair, secretarial, rotary	9	EA	48.00	43
	GSA - 7110-00-685-5534	Stand, office machine, 2 drop leaves	5	EA	78.00	39
	OP - IBM	Typewriter, IBM Selectric II, carbon ribbon, 10 & 12 pitch Model 833	5	EA	781.00	3,90
	GSA - 7110-00-497-2012	Filing cabinet, 5 drawer, legal size	7	EA	190.00	1,33
	GSA - 7125-00-764-6129	Cabinet, storage, dbl door	9	EA	146.00	1,31
	GSA - 7110-00-112-0045	Bookcase, base	10	EA	25.00	25
	GSA - 7110-00-831-7430	Bookcase, section, w/o doors	42	EA	20.60	86
	GSA - 7110-00-471-4039	Bookcase, top	10	EA	5.90	Ę
	GSA - 7110-00-782-3503	Chair, straight, w/o arms	50	EA	32.00	1,60
	GSA - 7195-00-242-3503	Costumer, wearing apparel, 4 double hooks	12	EA	31.50	37
	GSA - 7195-00-004-6716	Rack, wearing apparel, contem- porary, 6 metal hangers	5	EA	37.50	
	GSA - 7520-00-285-5416	Wastepaper basket, 24 gauge steel	20	EA	2.70	i i
	0P -	Draperies & hardware	13	PR	90.00	1,17
	6230-00-682-3423	Desk lamp	20	EA	43.00	86
	OP - Monroe	Adding machine, Monroe, Model 1405	5	EA	286.00	1,43
	GSA - 7110-00-143-0821	Table, gen. purpose	7	EA	101.00	70
	NSN - 4210-00-202-7858	Extinguisher, Fire, 15 lb. CO ₂ , cartridge-operated, Class B/C	10	EA	100.74	1,0
	NSN - 4210-00-965-1111	Extinguisher, Fire, dry chemical, Class B/C, CO2 gas cartridge- operated, 20 lb cap, Ansul Brand	9	EA	91.81	8

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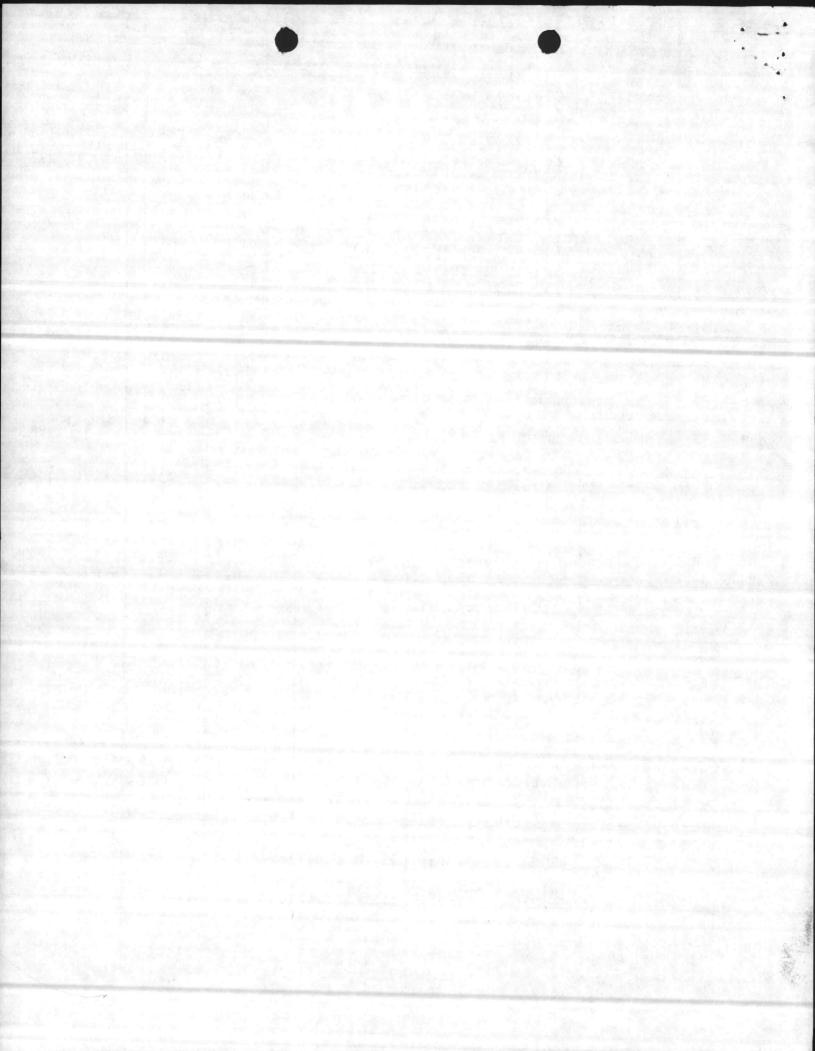
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D LANTDIV 4-11010/6 (NEW 2-79)				23	APR 1982
MARINE CORPS BASE, CAMP	LEJEUNE, NORTH CAROLINA 28542			Ser 1	** _^^
PROJECT TITLE	ONS MAINTENANCE SHOP (DIV HQ BN)		277124	an a	P. NO. P-175
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
NSN - 4210-00-720-1815	Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel	11	EA	27.00	29
	TOTAL EXPENSE ITEMS				66,82
	Shipping, packing, handling, installation charges, & contingencies - 10%				6,68
3. INVESTMENT ITEMS:	None				
4. APA EQUIPMENT:	None				
5. TRAINING EQUIPMENT:	(LOCALLY FUNDED)				E Alter
NSN - 6730-00-423-999	Projector, movie	2	EA	744.00	1,48
OP - Mod 389B Da-Lite Screen Co. 3100 St. Rd., Box 137 Warsaw, Indiana 46580	Screen, movie, Picture King, 84"x84", glass beaded	2	EA	126.42	25
OP - GS-03S-81003, Mod 389B, Da-Lite Screen Co 3100 St. Rd., Box 137 Warsaw, Indiana 46580	Projector, overhead, specialist	2	EA	203.00	
219/267-8101	TOTAL TRAINING EQUIPMENT				2,14
	Shipping, packing, handling, installation charges & contingencies - 10%			a second and	21
6. <u>SUMMARY</u>	EXPENSE COST			\$73,50G ·	\$73,72
	GRAND IUTAL				
	USABLE COMPLETION DATE: MAY 1983 IMMEDIATE FUNDING REQUESTED				
	COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE NSN - 4210-00-720-1815 3. INVESTMENT ITEMS: 4. APA EQUIPMENT: 5. TRAINING EQUIPMENT: NSN - 6730-00-423-999 OP - Mod 389B Da-Lite Screen Co. 3100 St. Rd., Box 137 Warsaw, Indiana 46580 219/267-8101 OP - GS-03S-81003, Mod 389B, Da-Lite Screen Co 3100 St. Rd., Box 137 Warsaw, Indiana 46580 219/267-8101	MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 PROJECT TITLE LECTRONICS/COMMUNICATIONS MAINTENANCE SHOP (DIV HQ BN) COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE ISN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel TOTAL EXPENSE ITEMS Shipping, packing, handling, installation charges, & contingencies - 10% 3. INVESTMENT ITEMS: None 4. APA EQUIPMENT: None 5. TRAINING EQUIPMENT: None 5. TRAINING EQUIPMENT: None 6. TRAINING EQUIPMENT: OP - GS-03S-81003, Mod 389B, Da-Lite Screen Co. 3100 St. Rd., Box 137 Arssaw, Indiana 46580 219/267-8101 OP - GS-03S-81003, Mod 389B, Da-Lite Screen Co. 3100 St. Rd., Box 137 Arssaw, Indiana 46580 219/267-8101 OP - GS-03S-81003, Mod 389B, Da-Lite Screen Co. 3100 St. Rd., Box 137 Arssaw, Indiana 46580 219/267-8101 OTAL TRAINING EQUIPMENT Shipping, packing, handling, installation charges & contingencies - 10% 6. SUMMARY EXPENSE COST GRAND TOTAL	MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 PROJECT TITLE PROJECT TITLE PROJECT TITLE Coc. SYMBOL AND OTHER SOURCE ISN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel TOTAL EXPENSE ITEMS Shipping, packing, handling, installation charges, & contingencies - 10% 3. INVESTMENT ITEMS: None 4. APA EQUIPMENT: None 5. TRAINING EQUIPMENT: NSN - 6730-00-423-999 OP - Mod 3898 Da-Lite Screen Co. 3100 St. Rd., Box 137 Warsaw, Indiana 46580 219/267-8101 OP - 6S-03S-81003, Mod 3898, Da-Lite Screen Cc 219/267-8101 OP - 6S-03S-81003, Mod 3898, Da-Lite Screen Cc 219/267-8101 TOTAL TRAINING EQUIPMENT Shipping, packing, handling, installation charges & contingencies - 10% 6. SUMMARY EXPENSE COST GRAND TOTAL	MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 PROJECT TITLE PROJECT TITLE COC. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE ITEM/EQUIPMENT DESCRIPTION QUAN. TITY ISN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA ISN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA ISN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA ISN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA ISN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA ISN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA ISN - 6730-00-720-1815 None 2 2 2 ISN - 6730-00-423-999 Projector, movie 2 2 EA Screen Co. 3100 St. Rd., Box 137 Warsaw, Indiana 46580 Projector, overhead, specialist 2 2 EA 219/267-8101 TOTAL TRAINING EQUIPMENT Shipping, packing, handling, installation charges & contingencies - 10% <td>MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 PORGET TITE COG. SYMBOL AND OTHER SOURCE ITEM/EQUIPMENT DESCRIPTION QUAN. SISN - 4210-00-720-1815 WITT Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA 27.00 SN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA 27.00 3. INVESTMENT ITEMS: None Intel Expense ITEMS Intel Expense ITEMS Intel Expense ITEMS 3. INVESTMENT ITEMS: None Intel Expense ITEMS Intel Expense ITEMS Intel Expense ITEMS 5. TRAINING EQUIPMENT: None Intel Expense Expense Expense Intel Expense Expense Intel Expense Expense 90P - Mod 389B Screen, movie, Picture King, Barsaw, Indiana 46580 Screen, movie, Picture King, 84"x84", glass beaded Intel Expense EA 203.00 219/267-8101 TOTAL TRAINING EQUIPMENT Shipping, packing, handling, installation charges & contingencies - 10% EXPENSE COST Imtel Expense COST Imtel Expense COST 6. SUMMARY EXPENSE COST Imtel Expense COST </td>	MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 PORGET TITE COG. SYMBOL AND OTHER SOURCE ITEM/EQUIPMENT DESCRIPTION QUAN. SISN - 4210-00-720-1815 WITT Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA 27.00 SN - 4210-00-720-1815 Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel 11 EA 27.00 3. INVESTMENT ITEMS: None Intel Expense ITEMS Intel Expense ITEMS Intel Expense ITEMS 3. INVESTMENT ITEMS: None Intel Expense ITEMS Intel Expense ITEMS Intel Expense ITEMS 5. TRAINING EQUIPMENT: None Intel Expense Expense Expense Intel Expense Expense Intel Expense Expense 90P - Mod 389B Screen, movie, Picture King, Barsaw, Indiana 46580 Screen, movie, Picture King, 84"x84", glass beaded Intel Expense EA 203.00 219/267-8101 TOTAL TRAINING EQUIPMENT Shipping, packing, handling, installation charges & contingencies - 10% EXPENSE COST Imtel Expense COST Imtel Expense COST 6. SUMMARY EXPENSE COST Imtel Expense COST

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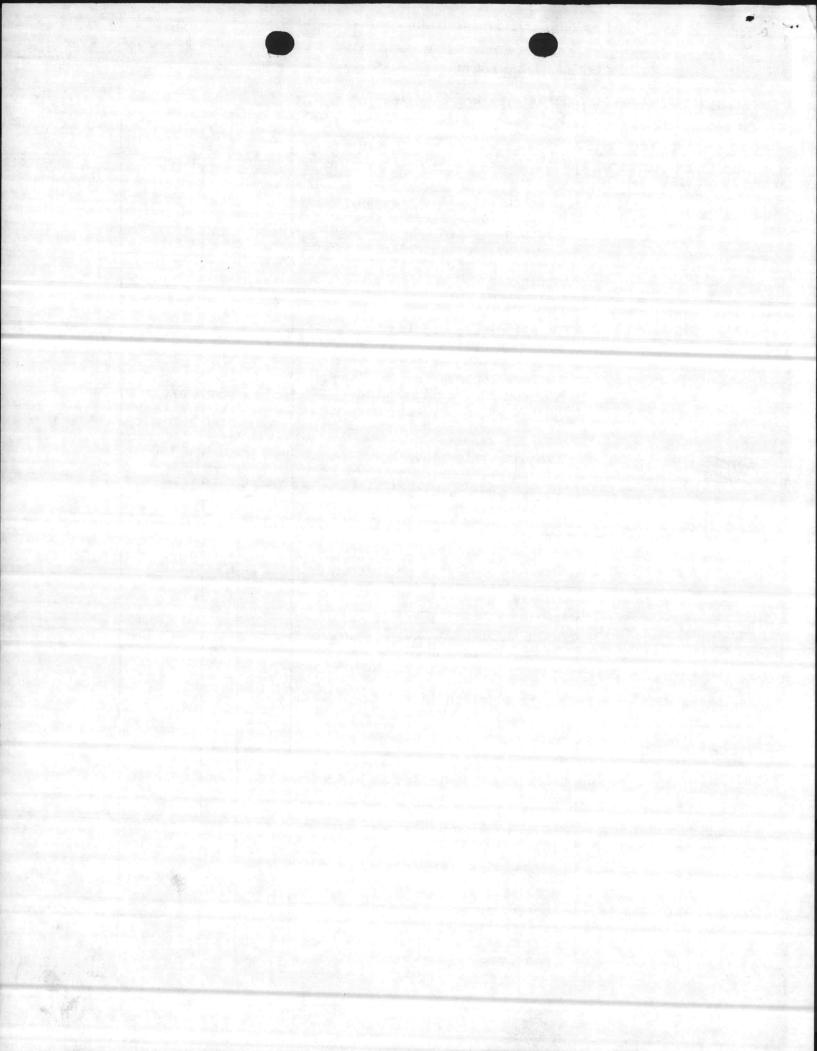
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542

DATE 23 APR 1982

PROJECT TITLE ELECTRONICS/COMMUNICATI	ONS MAINTENANCE SHOP (DIV HQ BN)	·		in Standing	Р. NO. P-175
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY		UNIT PRICE	TOTAL COST
*Equipment with associa	<pre>*Air-conditioning, heating, and ventilating systems *Plumbing system *Steam system (interior) *Compressed air system *Sprinkler system *Telephone, intercom & fire alarm system *Drinking water coolers *Crane, overhead - 5 ton capacity *Lockers *Locker-room benches, 6' long *Chalkboards, wall mounted *Board, bulletin, wall mounted *Board, bulletin, wall mounted *Counter, dispatchers *Blinds, Venetian *Exhaust system, overhead, frac- tional HP, 208V, 3 phase *Deluge shower, w/eye wash, CW *Acid resistant sink, CW, w/bench *Exhaust hood (over) w/fraction HP, 120V, 1 phase fan *Grounding system, electronic *Pass window, 4' wide, w/counter & "B" label roll down shutter w/fusible link *60/400 cycle electrical system with AC/DC power bus bar and transformers</pre>		EA EA EA EA EA EA EA EA EA EA EA EA EA E		
2. EXPENSE ITEMS					
7195-00-926-5939	Bench, work portable, 48"x28"x 34"H	20	EA	154.58	3,092
4910-00-543-7771	Bench, work portable, automotive, 72"x28"x34"H	10	EA	356.00	3,56
9765T1 McMaster-Carr Supply Company, P.O. Box 4355 Chicago, Illinois 60680	Cabinet, tray top acid storage 37"wx21-11/16"Dx31"H, for use in battery or acid areas. Acid resistant without eye wash.	6	EA	398.00	2,38
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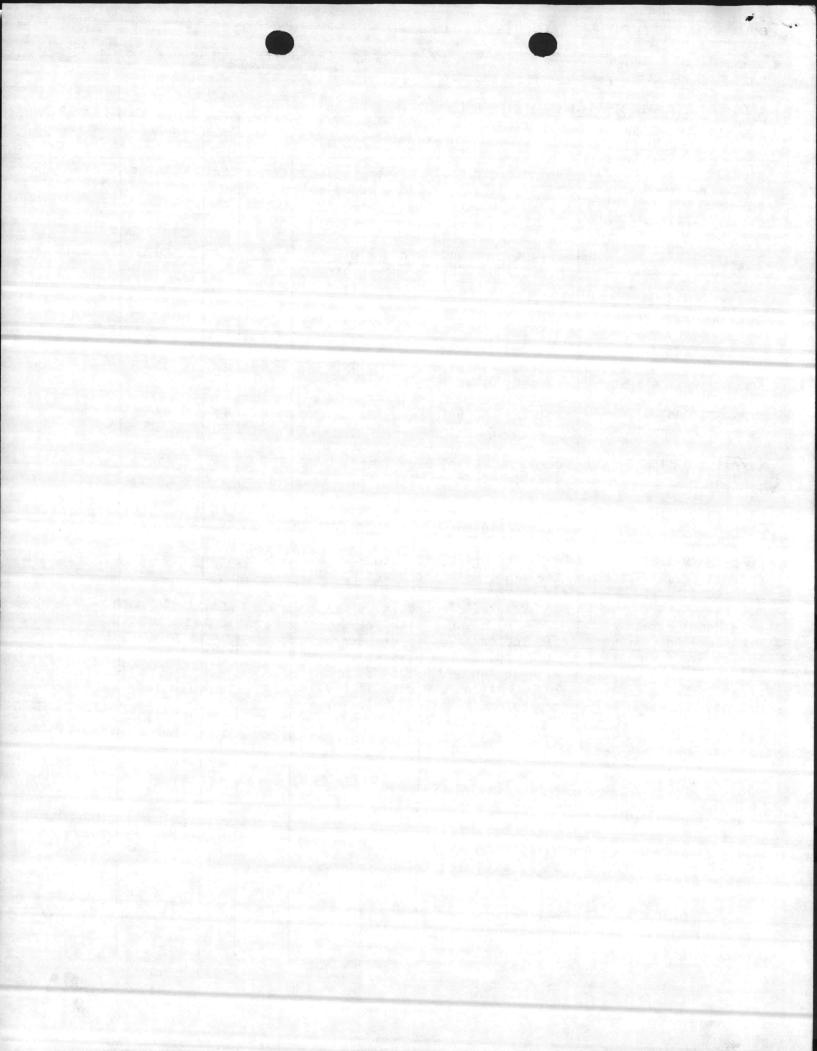
COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting) 5ND LANTDIV 4-11010/6 (NEW 2-79)

1. ACTIVITY (Name and Location)

DATE 23 APR 1982

MAN ALL	2. PROJECT TITLE	LEJEUNE, NORTH CAROLINA 28542 DNS MAINTENANCE SHOP (DIV HQ BN)				Р. NO. P-175
「本語の語を見	COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
and the second s	5150T14 McMaster-Carr Supply Company, P.O. Box 4355 Chicago, Illinois 60680	Cabinet, parts, 18 drawer, welded steel, 11"x5¼"x2-5/8", adjustable cross dividers	5	EA	135.92	680
a ware observed that a second	98-444 with 18-909 Bins AKRO MILS, Akron, Ohio 44309	Storage-go-round, parts bins, 31"wx31"Dx60"H, 45 drawer storage	4	EA	900.00	3,600
	6130-00-882-6724	Charger, battery, 6 and 12 volts, 2.2KW	4	EA	385.52	1,542
and a subsequences	26-s-32850-258 Federal Prison Systems	Shelving, 24"Dx36"Wx87"H, Type A closed, Class III	30	EA	93.05	2,792
the second se	7125-331-8401 Federal Prison Systems	Shelving, 18"Dx108"Wx87"H, Class III	26	EA	93.45	2,430
and the second second	Carolina Office Supply T5-2307	Board, bulletin, alum frame, 4'x6', 1¼" frame	7	EA	82.00	574
Warden and a show	Carolina Office Supply T5-80E	Easel, portable, 29"x40", expandable to 70"	2	EA	96.00	192
Contraction and the street of	26-s-32879-152 Federal Prison Systems	Doors, security, for storage shelving, with locks and handles	10	PR	33.10	331
And a second	438-EN-10L with Model L Rack Pressteel Co., 9705 Garvey Ave., Elmonte, Calif. 91733 TEL: 213- 283-1225 Sales Rep: Mr. Boyde Lowery	Bench, work, electronic, 96"Lx36" Wx35½"D, plywood with pressweld #10 top covering, 5 drawers at each end, lockable, steel, wired with 18 AWG, 400HZ, 60HZ, and 28VDC, all on 20A circuit breaker separate with pilot indicator.	15 s,	EA	1,390.00	20,850
and the station of the second se	OP - Heywood Wakefield, Mod. #HC-7730-PABS-PP	Student chairs	32	EA	44.00	1,408
Stringer over 1	GSA - 7110-00-149-1630	Desk, flat top, dbl ped	3	EA	225.00	675
「あるない」のないか	GSA - 7110-00-149-1628	Desk, flat top, single ped	9	EA	186.00	1,674
あったい しんしょう うちょう ちょうちょうちょう しょうし	GSA - 7110-00-082-6229	Chair, rotary, tilting seat & back, adj. seat height, w/arms, w/casters	17	EA	58.00	986
	GSA - 7110-01-015-1361	Desk, single ped, for desk attachment	9	EA	192.00	1,728
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COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting) 5ND LANTDIV 4-11010/6 (NEW 2-79)

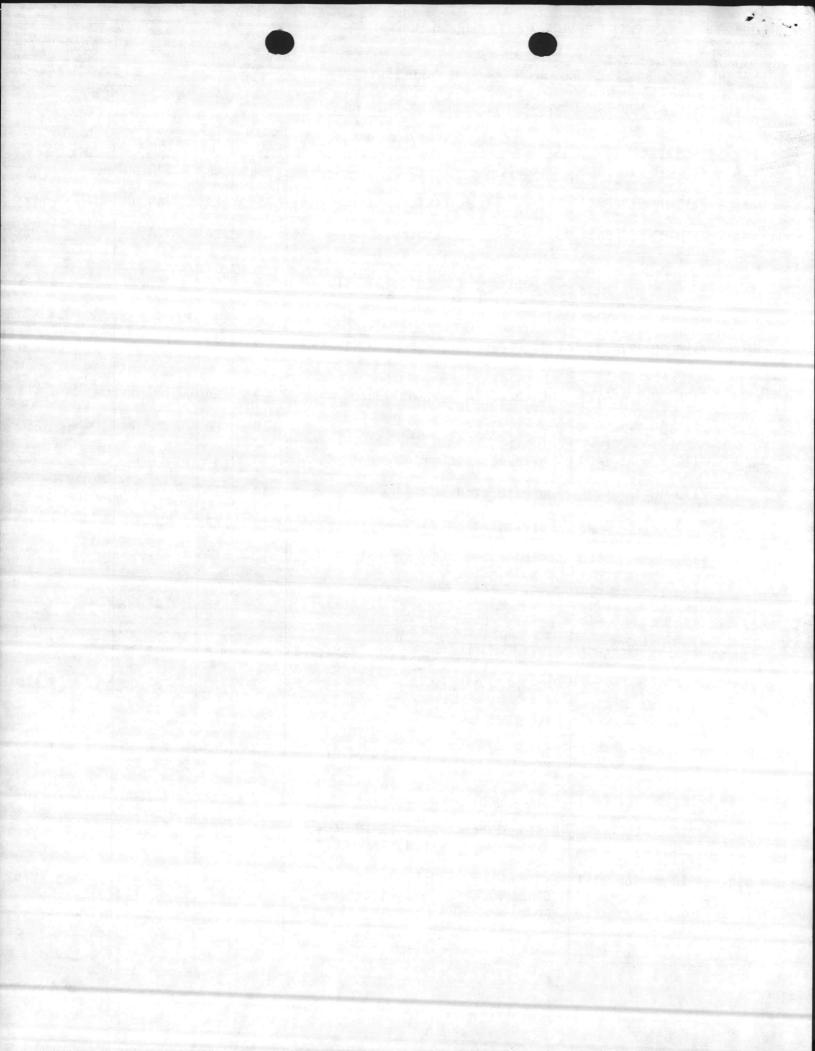
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DATE 23 APR 1982

PROJECT TITLE ELECTRONICS/COMMUNICATI	ONS MAINTENANCE SHOP (DIV HQ BN)			•	Р. NO. P-175
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
GSA - 7110-01-016-6580	Desk attachment	9	EA	140.00	1,26
GSA - 7110-00-958-8044	Chair, secretarial, rotary	9	EA	48.00	43
GSA - 7110-00-685-5534	Stand, office machine, 2 drop leaves	5	EA	78.00	39
DP - IBM	Typewriter, IBM Selectric II, carbon ribbon, 10 & 12 pitch Model 833	5	EA	781.00	3,90
GSA - 7110-00-497-2012	Filing cabinet, 5 drawer, legal size	7	EA	190.00	1,33
GSA - 7125-00-764-6129	Cabinet, storage, dbl door	9	EA	146.00	1,31
GSA - 7110-00-112-0045	Bookcase, base	10	EA	25.00	25
GSA - 7110-00-831-7430	Bookcase, section, w/o doors	42	EA	20.60	86
GSA - 7110-00-471-4039	Bookcase, top	10 ~	EA	5.90	5
GSA - 7110-00-782-3503	Chair, straight, w/o arms	50	EA	32.00	1,60
GSA - 7195-00-242-3503	Costumer, wearing apparel, 4 double hooks	12	EA	31.50	37
GSA - 7195-00-004-6716	Rack, wearing apparel, contem- porary, 6 metal hangers	5	EA	37.50	18
GSA - 7520-00-285-5416	Wastepaper basket, 24 gauge steel	20	EA	2.70	5
OP -	Draperies & hardware	13	PR	90.00	1,17
6230-00-682-3423	Desk lamp	20	EA	43.00	86
OP - Monroe	Adding machine, Monroe, Model 1405	5	EA	286.00	1,43
GSA - 7110-00-143-0821	Table, gen. purpose	7	EA	101.00	70
NSN - 4210-00-202-7858	Extinguisher, Fire, 15 1b. CO ₂ , cartridge-operated, Class B/C	10	EA	100.74	1,00
NSN - 4210-00-965-1111	Extinguisher, Fire, dry chemical, Class B/C, CO ₂ gas cartridge- operated, 20 lb cap, Ansul Brand	9	EA	91.81	82

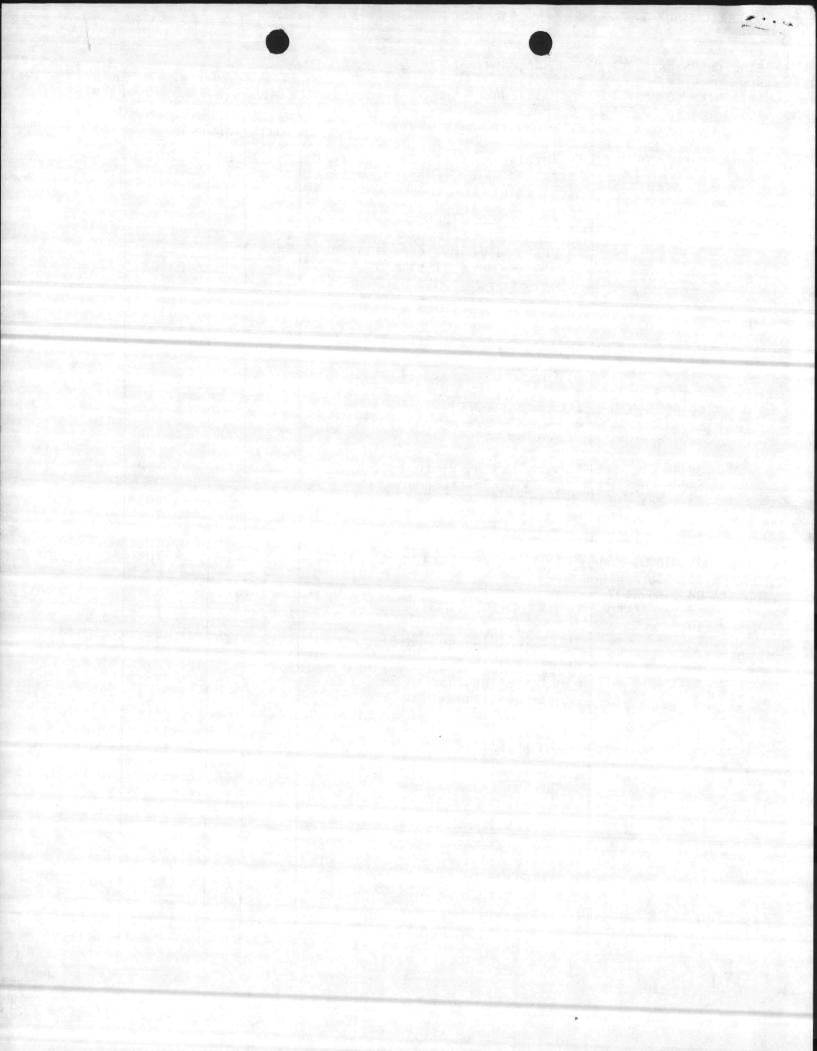
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			23	APR 1982
LEJEUNE, NORTH CAROLINA 28542	-			
			ANGLAS	р. NO. P-175
ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL
Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel	11	EA	27.00	297
				00,024
Shipping, packing, handling, installation charges, & contingencies - 10%				6,682
None				
None				
(LOCALLY FUNDED)				
Projector, movie	2	EA	744.00	1,488
Screen, movie, Picture King, 84"x84", glass beaded	2	EA	126.42	253
Projector, overhead, specialist	2	EA	203.00	40
TOTAL TRAINING EQUIPMENT				2,147
Shipping, packing, handling, installation charges & contingencies - 10%				214
EXPENSE COST				\$73,720
GRAND TOTAL				\$73,720
USABLE COMPLETION DATE: MAY 1983				
IMMEDIATE FUNDING REQUESTED				
	Extinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel TOTAL EXPENSE ITEMS Shipping, packing, handling, installation charges, & contingencies - 10% None None (LOCALLY FUNDED) Projector, movie Screen, movie, Picture King, 84"x84", glass beaded Projector, overhead, specialist TOTAL TRAINING EQUIPMENT Shipping, packing, handling, installation charges & contingencies - 10% EXPENSE COST GRAND TOTAL USABLE COMPLETION DATE: MAY 1983	ONS MAINTENANCE SHOP (DIV HQ BN)ITEM/EQUIPMENT DESCRIPTIONQUAN- TITYExtinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel11TOTAL EXPENSE ITEMSShipping, packing, handling, installation charges, & contingencies - 10%11None(LOCALLY FUNDED) Projector, movie2Screen, movie, Picture King, 84"x84", glass beaded2Projector, overhead, specialist2TOTAL TRAINING EQUIPMENT Shipping, packing, handling, installation charges & contingencies - 10%2USABLE COMPLETION DATE: MAY 1983	ONS MAINTENANCE SHOP (DIV HQ BN)ITEM/EQUIPMENT DESCRIPTIONQUAN- TITYUNIT TITYExtinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel11EATOTAL EXPENSE ITEMSShipping, packing, handling, installation charges, & contingencies - 10%11EANoneNone(LOCALLY FUNDED) Projector, movie2EAScreen, movie, Picture King, 84"x84", glass beaded2EAProjector, overhead, specialist2EATOTAL TRAINING EQUIPMENT Shipping, packing, handling, installation charges & contingencies - 10%WSABLE COMPLETION DATE:MAY 1983	ONS MAINTENANCE SHOP (DIV HQ BN)ITEM/EQUIPMENT DESCRIPTIONQUAN. TITYUNIT ISSUEExtinguisher, fire, 2½ gal. air expelled water, Class A, stain- less steel11EA27.00TOTAL EXPENSE ITEMSShipping, packing, handling, installation charges, & contingencies - 10%11EA27.00NoneIIIIIIIIIIIIIINoneIIIIIIIIIIIIIIINoneIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII

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Poge 4 of 4



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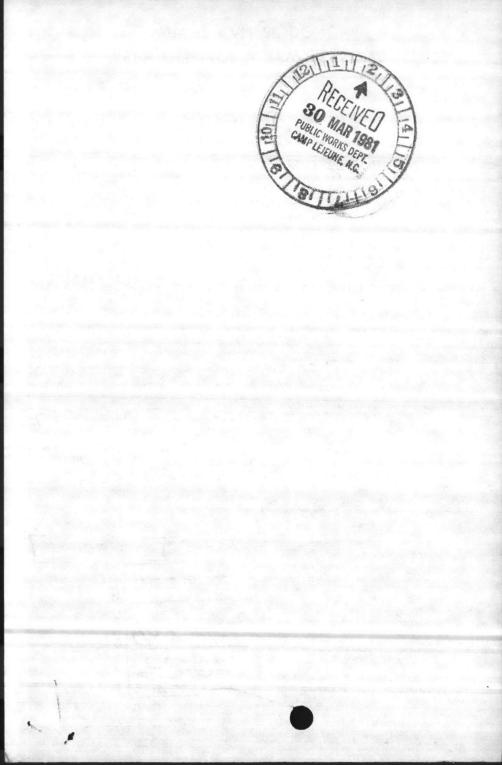
Please initial, or comment, and return all papers this office.

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Your file copy.

St. G. Siemth Szy dis

"LET'S THINK OF A FEW REASONS WHY IT CAN BE DONE"





DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND

NORFOLK, VIRGINIA 23511

TELEPHONE NO.

444-7521 REFER TO: 09A21E:MLB N62470-78-C-3902

2 4 MAR 1981

Clark Tribble Harris and Li, Architects, P.A. Architects and Engineers 121 West 7th Street Charlotte, North Carolina 28202

> Re: Contract N62470-78-C-3902, Electronics/Communications Maintenance Shop, Marine Corps Base, Camp Lejeune, North Carolina

Gentlemen:

During Mr. Falkenbury's visit to this office several weeks ago, he presented a number of questions concerning pertinent design information for the referenced project. The following is the sequential response to these questions:

1. What distribution class should be used for underground steam distribution?

Response: Per this Command's Code 411, soil borings indicate a summer water table of 9'-0" below grade. For all steam underground distribution which is to be installed at less than 8'-0" below grade distribution Class C, should be specified. For distribution expected to be greater than 8'-0" below, a Class B should be used. The <u>entire</u> distribution system to building should be of one classification based on worst case, relative to grade elevation at boring location.

2. What steam pressure is available?

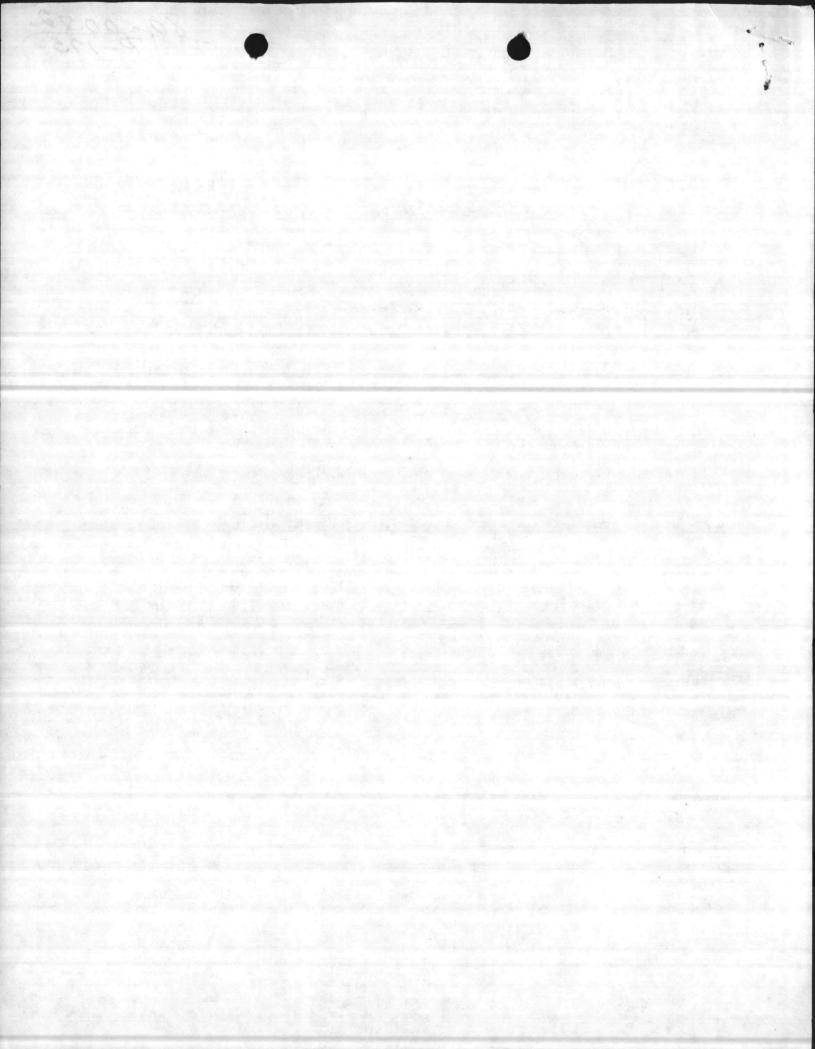
Response: Per Mr. T. Hatcher, Marine Corps Base, Camp Lejeune's Utilities Director, steam pressure at designated site location 156 psig maximum, 150 psig average. Use 60 psig design discharge pressure for condensate return pump.

3. Does this Command have any profile drawings for existing steam distribution?

Response: Steam distribution profile drawings are not available at this Command. The A&E will have to acquire drawings from the Marine Corps Base, Camp Lejeune's Public Works. If not available, pertinent invert elevations will have to be obtained by A&E during the course of site investigation.

4. Can you provide any information on RF shielding?

Response: NAVFAC guide specifications TS-13765 and TS-13766 are forwarded as enclosures (1) and (2) for use by the A&E in providing RF shielded enclosures for those areas as designated by the user Activity. Any questions which arise regarding the same, should be directed to this Command' Code 404 through the Project Manager.





09A21E:MLB N62470-78-C-3902

5. Are acid waste tanks required for battery storage areas?

Response: The user Activity should be consulted to confirm whether facility operations will require the disposal of any battery acid waste. If required, this Command's Code 403 should be advised so that acid waste tank details can be compiled and forwarded.

6. What security measures are required for the crypto vault?

Response: The user Activity must be contacted by the A&E to determine the security measures necessary for the crypto vault. The criteria, enclosures (3) and (4), are forwarded for your use in determining the class of vault required and design characteristics.

7. What are the design conditions to be maintained in the technical shop and crypto vault (dry bulb (°F) relative humidity)?

Response: The user Activity must be contacted to determine whether any special process design criteria is required for technical shop/crypto vault dry bulb - °F/relative humidity. If not, the A&E should provide comfort conditioning in accordance with this Command's Guide for Architect-Engineer Firms.

8. A list is required of all heat producing equipment (including equipment being serviced) for the technical shop and crypto vault.

Response: The user Activity should be consulted to provide a listing of all equipment heat loads which will impact building load calculations.

If you have any questions regarding the above response, please contact Mr. M. L. Bryant, P. E., Project Manager, telephone 444-7521, area code 804.

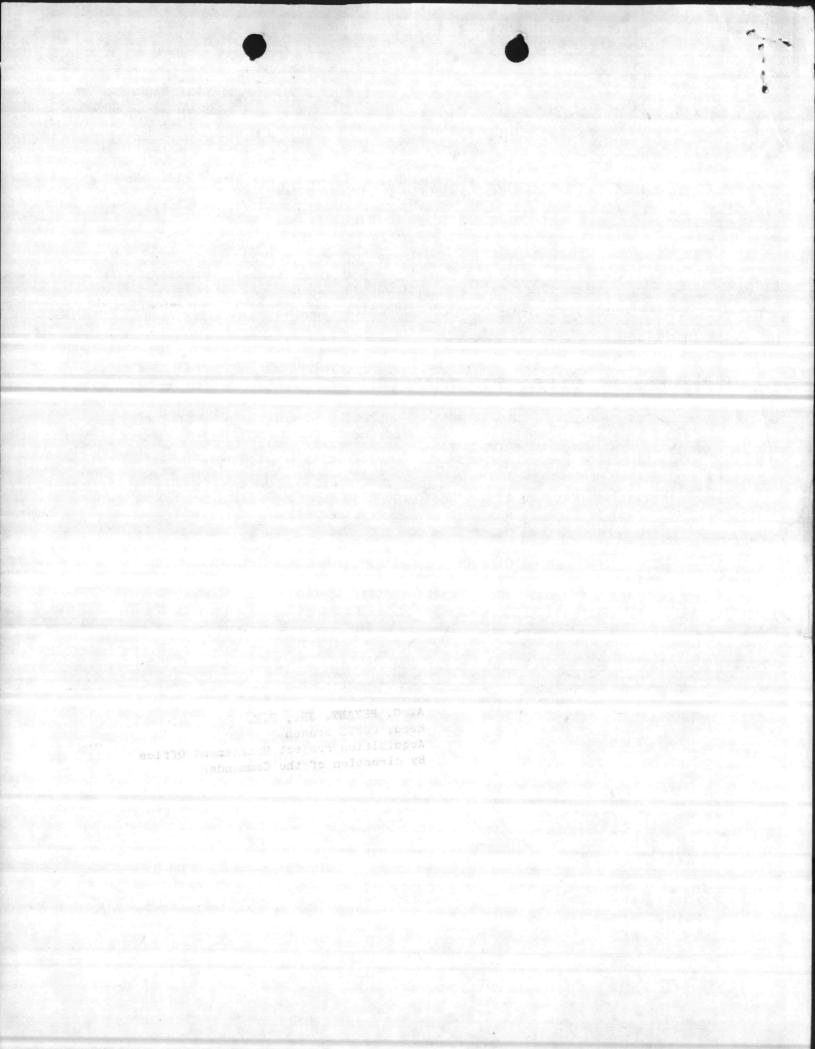
Sincerely yours,

A. G. BRYANT, JR., P.E. Head, CONUS Branch Acquisition Project Management Office By direction of the Commander

Encl:

- NAVFAC Guide Specification TS-13765
- (2) NAVFAC Guide Specification TS-13766
- (3) OPNAVINST 5510.1F (Chapter 11)
- (4) Physical Security of Classified Material, Chapter 11

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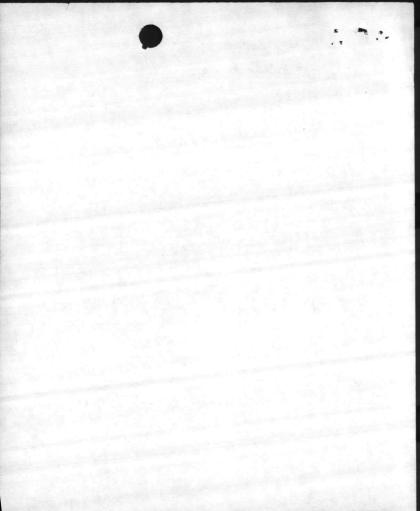




PLANNING BRANCH INTERNAL ROUTE SLIP

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RETURN TO BARBARA FOR FILING/ACTION



ASSISTANT CHIEF OF . FF, FACILITIES

HEADQUARTERS, MARINE CORPS BASE

DATE 17 Nov 80

TO:

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

3. Your file copy.

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"LET'S THINK OF A FEW REASONS WHY IT CAN BE DONE"





4.4



DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511 P-115

TELEPHONE NO. 444-7521

IN REPLY REFER TO:

09A21E:MLB 11010/MARCORB CAMLEJ

13 November 1980

From: Commander, Atlantic Division, Naval Facilities Engineering Command To: Commander, Naval Facilities Engineering Command (Code 05)

Subj: FY 1982 Project Engineering Documentation (PED) for Project P-175, Electronics/Communications Maintenance Shop, Marine Corps Base, Camp Lejeune, North Carolina

- Ref: (a) NAVFACENGCOM 1tr 0512A/WBS of 26 Oct 1979
 - (b) NAVFACENGCOM Instruction 11010.14M
 - (c) NAVFACENGCOM Instruction 11010.44C
- Encl: (1) Subject PED (10 copies)
 - (2) Detailed Engineering Cost Estimate Sheets (2 copies)
 - (3) Witness Data Sketch (2 copies)

1. As requested by reference (a), enclosures (1), (2), and (3), prepared in accordance with reference (b), are submitted.

2. It is certified that: (a) the PED has been prepared in accordance with the reference (b) Instruction; (b) project scope and cost are the minimum required to satisfy the operational requirements and are supported by current SFPS documentation in accordance with reference (c); (c) utilities are adequate to support the additional load imposed by the project; (d) the facility design is generally acceptable to the Activity Commanding General, and satisfies the Activity's requirements; and (e) the DD Form 1391 has been reviewed by both the Activity and LANTNAVFACENGCOM.

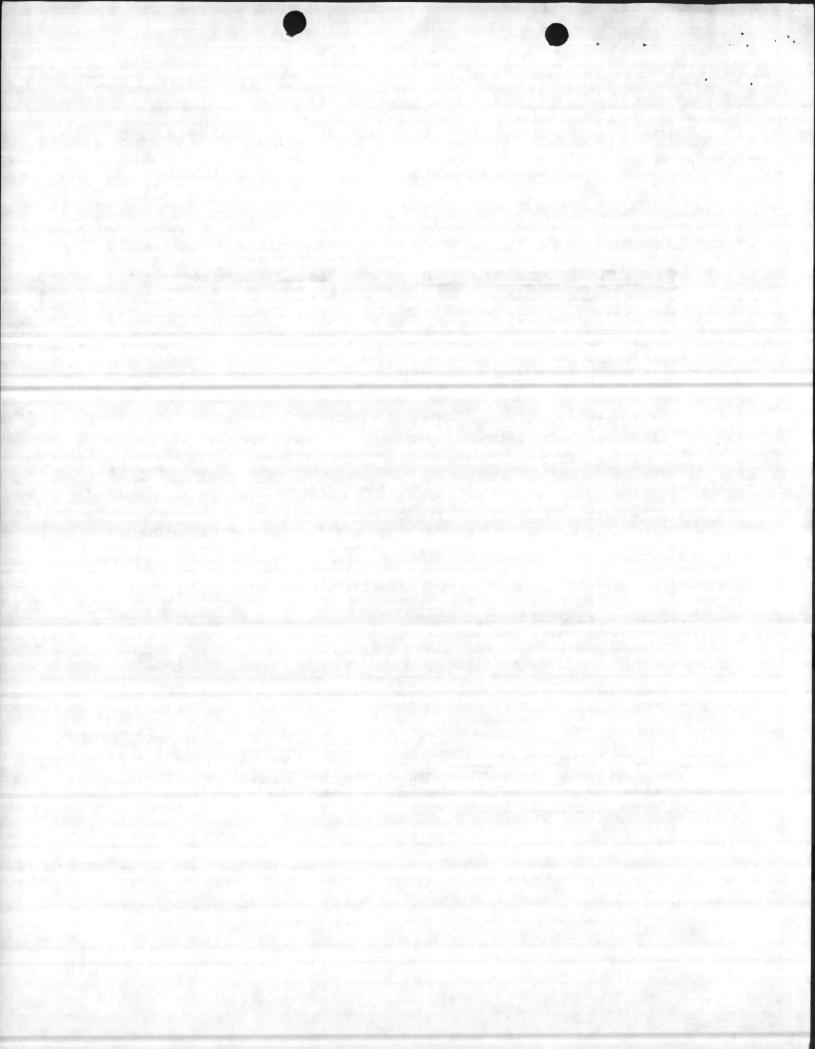
3. The slight increase in the project budget cost over that authorized for design \$1,900,000 vice \$1,800,000 is attributable to the inclusion of solar domestic hot water and demolition of <u>five quonset</u> buildings (metal) and one concrete structure.

4. By copy of this letter the Commandant of the Marine Corps and the Commanding General, Marine Corps Base, Camp Lejeune, North Carolina are requested to provide any comments directly to NAVFACENGCOM (Attention Code 05) with a copy to LANTNAVFACENGCOM (Attention Code 09A2). If no comments are submitted within 30 days, concurrence will be assumed.

Ala Dec

Copy to: CMC (w/2 copies encl (1)) >MARCORB CAMLEJ (w/2 copies encl (1))

E. W. MCLAUGHLIN By direction



FOR OFFICAL USE ONLY

1 JULY 1980

DEPARTMENT OF THE NAVY

PROJECT ENGINEERING DOCUMENTATION

ELECTRONICS/COMMUNICATIONS MAINTENANCE SHOP

(P-175)

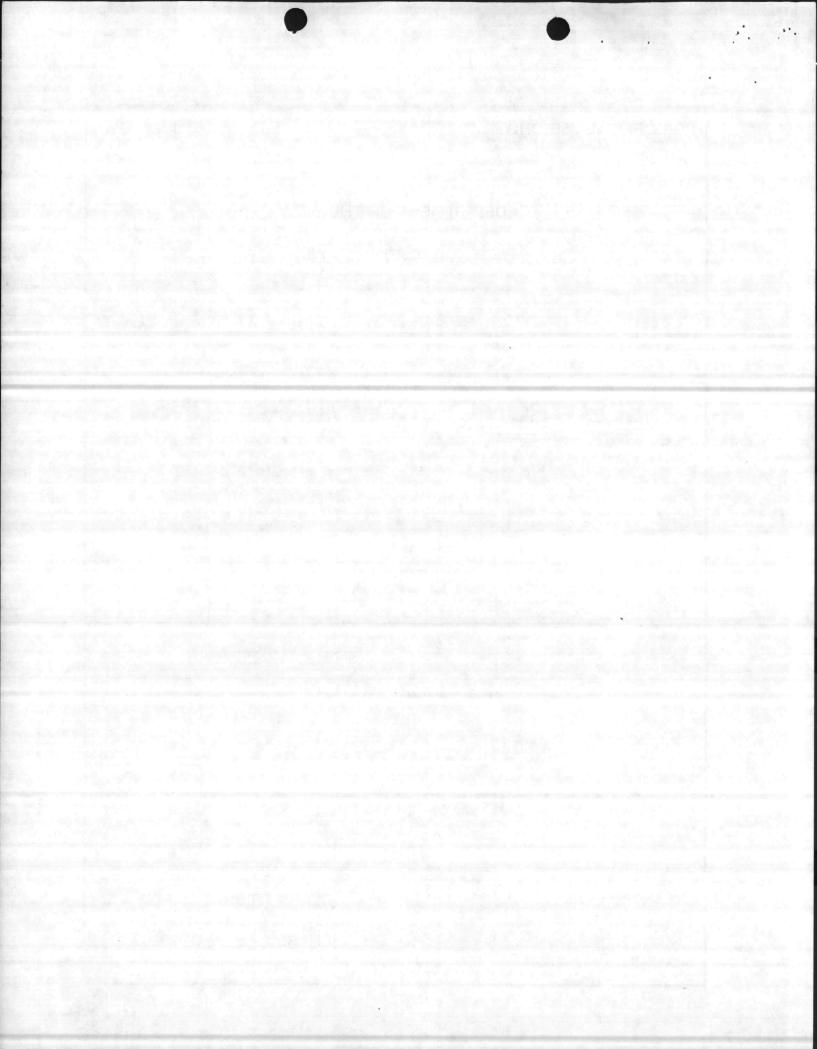
FY 1982 MCON

MARINE CORPS BASE

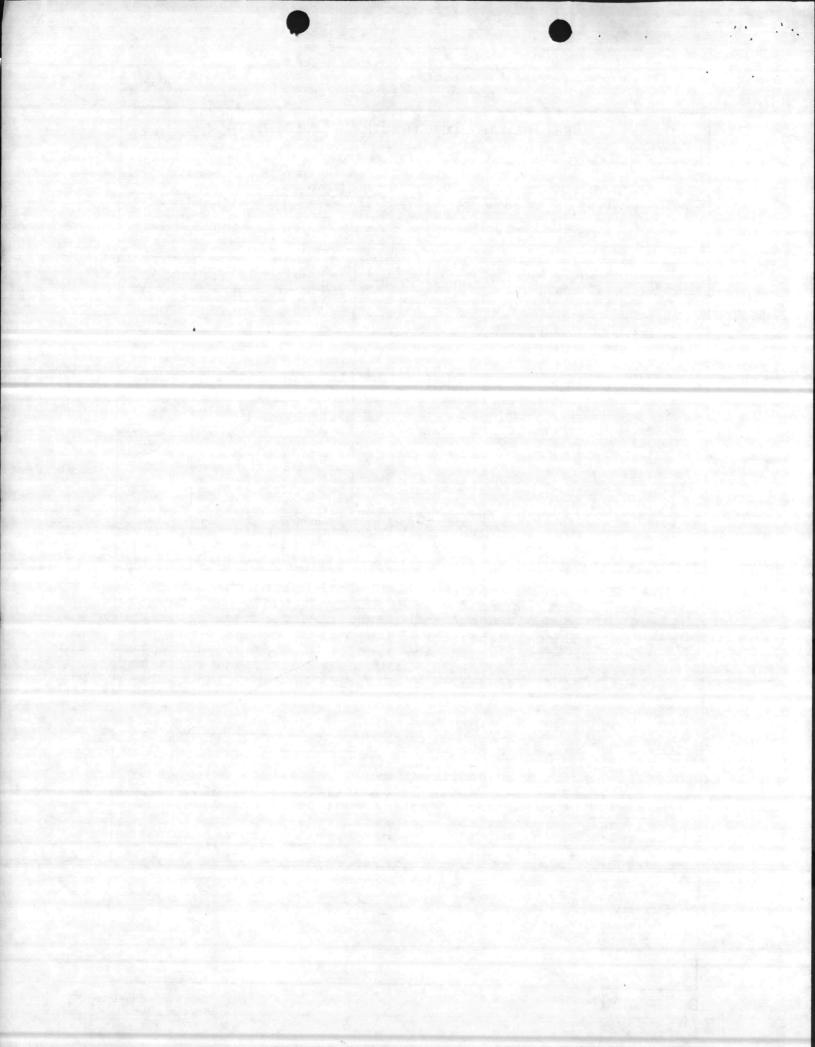
CAMP LEJEUNE, NORTH CAROLINA

ADMINISTERED BY: ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING_COMMAND NORFOLK, VA. 23511 PREPARED BY:

CLARK TRIBBLE HARRIS & LI 121 WEST 7th STREET CHARLOTTE, N.C. 28202



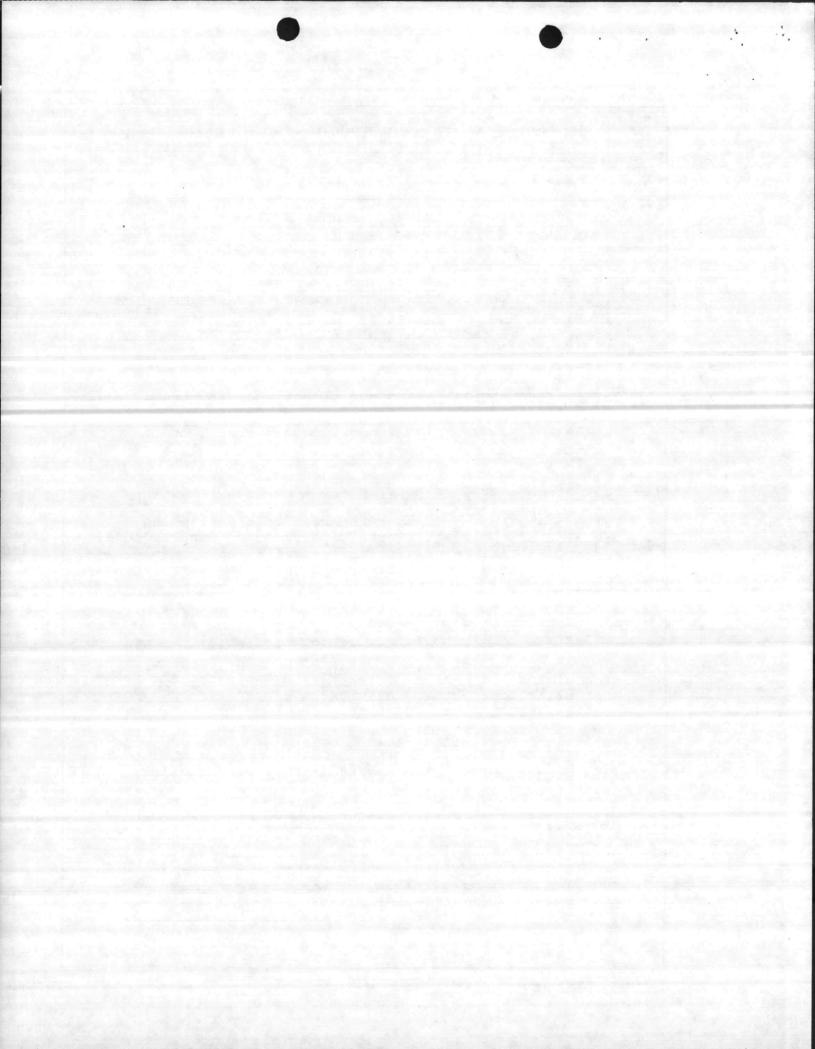
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D.	Flood	Flood Hazards Evaluation							
	Manage of Wet approp	Requirements of Executive Order No. 11988 (Floodplain Management) and Executive Order No. 11990 (Protection of Wetlands) have been thoroughly investigated and appropriate corrective measures have been taken and/or are included in this project.							
Е.	Pollution, Prevention, Abatement and Control								
	This p pollut	roject wi ion.	ll not c	ause a	dditic	nal air	or wa	ater	
F.	Design for Accessibility of Physically Handicapped Personnel								
	Provisions for physically handicapped personnel are not required in this facility. The project will be used by able bodied active military personnel only.								
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BUDGET ESTIMATE SUMMARY SHEET FOR P- 175

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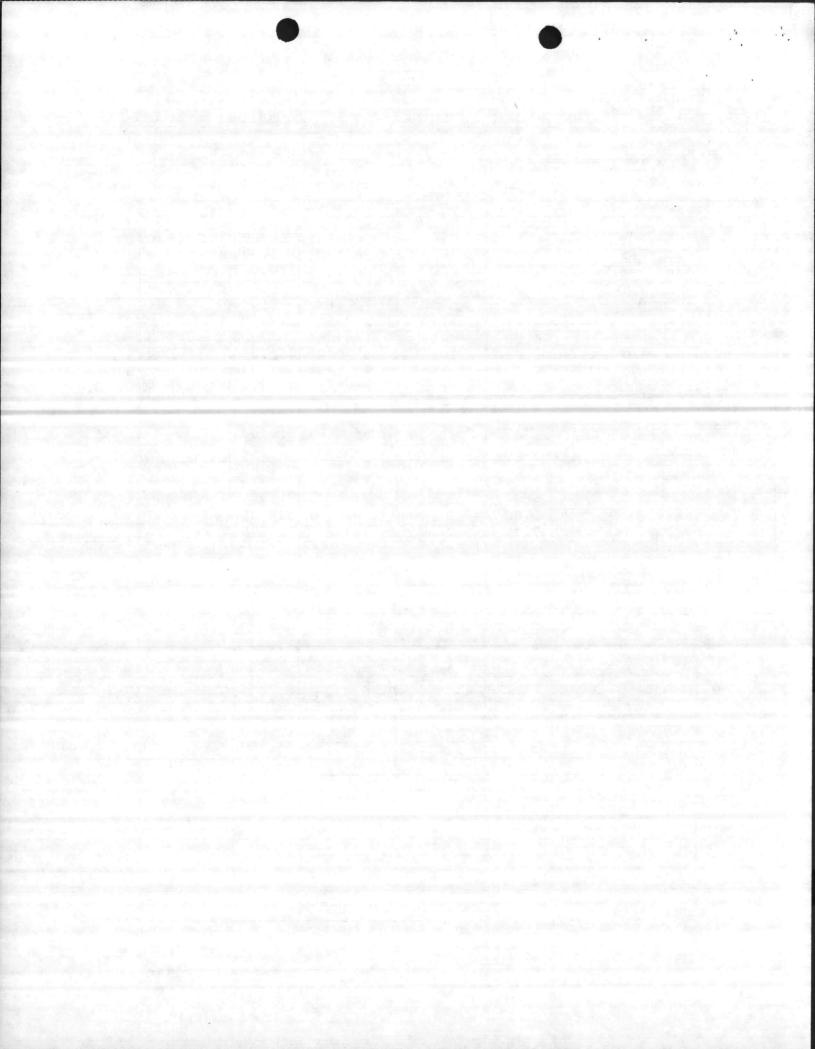
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	\$/SF	S/SYS	SYS QUAN	TOTAL	BUILDING	EQUIPMENT
		·				
			01010-5	50.000		
01 FOUNDATION	2.01	2.01	24818sf	50,000	50,000	;
02 SLAB-ON-GRADE	3.02	3.02	24818sf	75,000	75,000	
03 STRUCTURAL FRAME	.12	.12	The second s	3,000	and the second se	
04 SUPPORTED FLOORS	1.04	10.83	2400sf	26,000		
05 ROOF SYSTEM	890	8.90	24818sf 13756sf	221,00		
06 EXTERIOR WALLS	5.84	10.54	and the second sec			
07 INTERIOR WALLS	3.50	4.99	17424sf	87,000		
08 INTERIOR FINISHES	2.65	1.27	51904sf	66,000		
09 DOORS AND WINDOWS	2.57	914	70 units	64,000	the second se	<u>A. 19.19</u>
10 SPECIALTIES	4.97	1958	24fixtur			
11 PLUMBING			12.5tons		and the second	
12 MECHANICAL (HYAC)	4.06	8080 4500	4systems	and the second se	101 000	18000
15 ENGINE EXHAUST SYS.	.74	1.49	24818sf	37,000		37000
17 SPRINKLER	.38	9000	1 ea.	9,000		9000
19 COMPRESSED AIR	.30	9000	I ea.	3,000		5000
	.64	761	21 pts.	16,000	16000	
23 EMCS	1.00	25,000	lea.	25,000		2500
24 SPECIAL EQUIPMENT	9.50	9.50	24818sf	236,00	236000	2300
25 ELECTRICAL	9.50	9.30	2401031	230,00	230000	<u></u>
		·····				
Sub-Total Building	50.73			3 348 000	\$*1,259,000	5: 89000
		L			+ 1,200,000	<u> </u>
SOLAR D.H.W.		95.24	168 SF	16,000	·	the second s
87 PILING				- 1	a.	* -
50 ELECTRICAL		4000	.lea	4000	a.	
51 ELECTRICAL SÚBSTAT	ON-	24.00	500 kva	12000	b.87000	* 8700
56 HEAT DISTRIBUTION	-	150	400 LF	60000		<u> </u>
61 SANITARY SEWERS		33.33	ISOLF	5000		
64 WATER DISTRIBUTION	-	30.00	200LF	6000		
		-				*
75, 76, 77 ROADS, PARKING, WALKS	-	13.44	4537 sy	61000	c	6100
79, 80, 81, 82 SITE		-	-			
IMPROVEMENTS			LS	136000	đ.	* 1360
			LS	60000	e.	6000
83 DEMOLITION						
	· · · · ·					
Sub-Total Supporting Faci	lition		*			24400
Sub-Total Supporting Faci	1.1.1.1.6.5		*	2		34400

Contingency 5 % SIOH 5.5% Total Budget Cost Rounded

۰,

\$ 1708000 \$ 85000 \$ 99000 \$ 1892000 \$ 1900000

*Asteric indicates these totals on 1391.



DESIGN CONCEPTS

ACTIVITY AND LOCATION:

MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA

PROJECT TITLE:

ELECTRONICS/COMMUNICATIONS MAINTENANCE SHOP (P-175)

DATE:

1 JULY, 1980

USE OF DEFINITIVES AND PREVIOUS DESIGNS

The definitive drawing supplied was used as a basis for design and was changed only as required by the site conditions and by input from the Activity. The proposed design now meets all the Activity's updated requirements.

SPECIAL DESIGN CHARACTERISTICS

The building is set back from the main service road in order to avoid interference with existing underground utilities. The covered entrance area provides sun control for the Administrative Office Area. The storage areas to the north are gathered together into one long span bay in order to maximize economy of structure. The toilets and mechanical room are centrally located to also maximize economy.

ENERGY CONSERVATION AND SOLAR ENERGY

The mechanical system recommended is to heat and ventilate the non-air conditioned areas utilizing steam unit heaters and to supply the air conditioned spaced with a low pressure VAV system. The initial investment for this system is \$113,000 with a life cycle cost of \$401,000. This represents 8 percent of the total budget.

This building should be assigned bldg. category code 210, as listed on the interim DOD Design Energy Budgets. The building is located in Region 4 which allows an energy consumption of 85,000 BTU/sq.ft./yr. The projected consumption for this facility is 63,173 BTU/sq.ft./yr.

Solar energy is recommended for domestic water heating on this project. Computer studies indicate that an optimum of 68.5 percent of the water heating requirements could be supplied with a payback of 19 years. The solar collectors would be of the double glazed flat plate type with an area of 168 square feet.

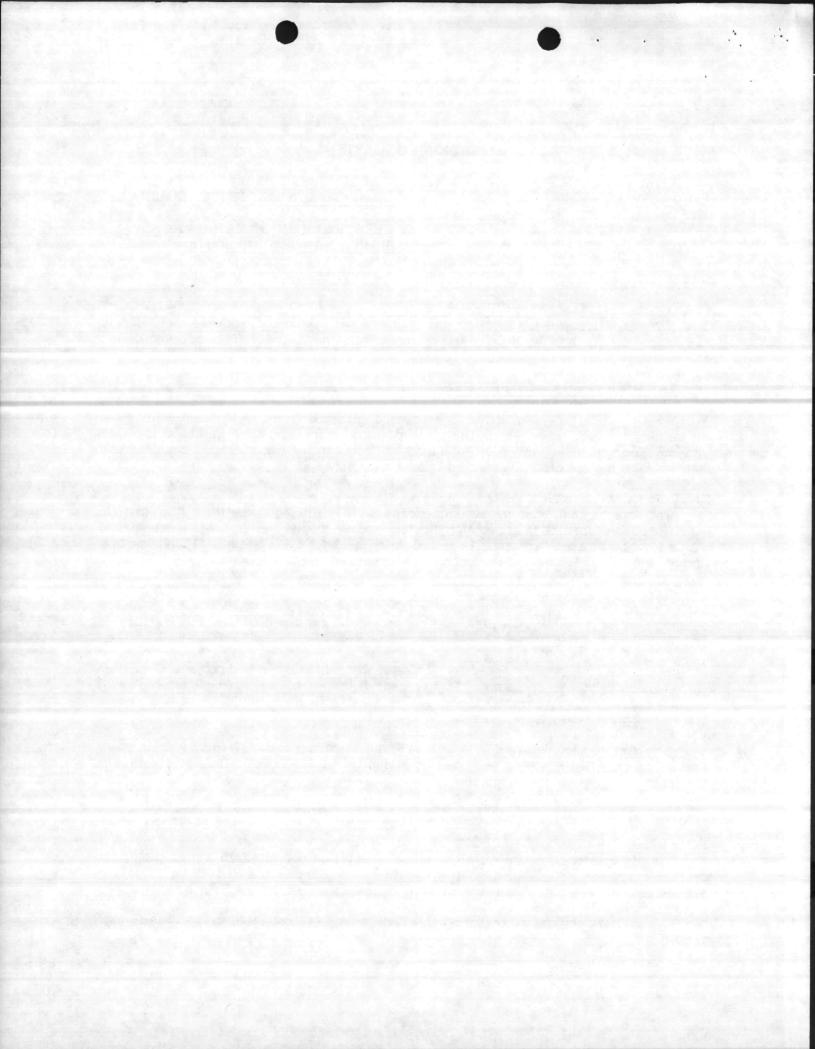
The system should save 26.7 x 10^6 BTU/yr. which represents \$426.00 (escalated to 1982). The installed cost of the system is estimated at \$18,214.00. The design cost for the solar system would be \$2,000.00.

The system will be connected to the Base EMCS System.

POLLUTION ABATEMENT ASPECTS OF DESIGN

During construction, soil erosion and sedimentation deposits into the existing open drain storm sewer system could exist. Preventative measures will include silt fenses, runoff devices, and seeding. These erosion control measures shall meet all state regulations.

All sanitary sewage generated by this Facility will be connected to the Base sewage facility.



SITE APPROVAL

Site approval has been authorized by CMC letter LFF-1 AJR:bab of 6 December, 1979.

ECONOMIC ANALYSIS

The Facility designed is a one-story building with two roof heights to meet all the Activity's requirements and to maximize economies of structure. The overall rectangular shape of the building is compact for ease of construction. The building is of masonry construction including applied metal siding in order to be compatible with existing new on Base Facilities and construction techniques of the area.

The Economic Analysis compared a steel open-web joist system on load bearing walls, a steel framing system, and a precast concrete framing system. The results determined that the masonry load bearing wall with a steel open-web joist framing system was economically justified on a first cost basis.

The mechanical system determined to be most economical is a system of unit heaters for the heated and ventilated areas and a variable air volume system for the air conditioned areas. While this system has a higher first cost than single packaged roof top units, or air to air heat pumps, its life cycle cost provided to be superior. The use of solar energy as a supplementary source for domestic water heating will payback in twentyone years as determined by the solar study.

SPECIAL ENGINEERING SERVICES

Special Engineering Services include a site survey and soil borings. The site survey consists of a toporaphic survey of approximately 8.5 acres of land, bound on the west by O Street, on the south by the main service road, on the east by a service road, and on the north by the area surrounding existing Building 1817. The survey includes the location of Building numbers 1814, 1822, 1824, 1812 and structure S-1825, along with an existing concrete wash rack, all of which must be demolished or removed to other locations prior to construction. The foundation investigation has determined that shallow spread footings will be adequate for the structure.

BASE ELECTRONICS SYSTEMS ENGINEERING PLAN (BESEP)

The BESEP is currently being prepared by the Activity.

DEMOLITIONS

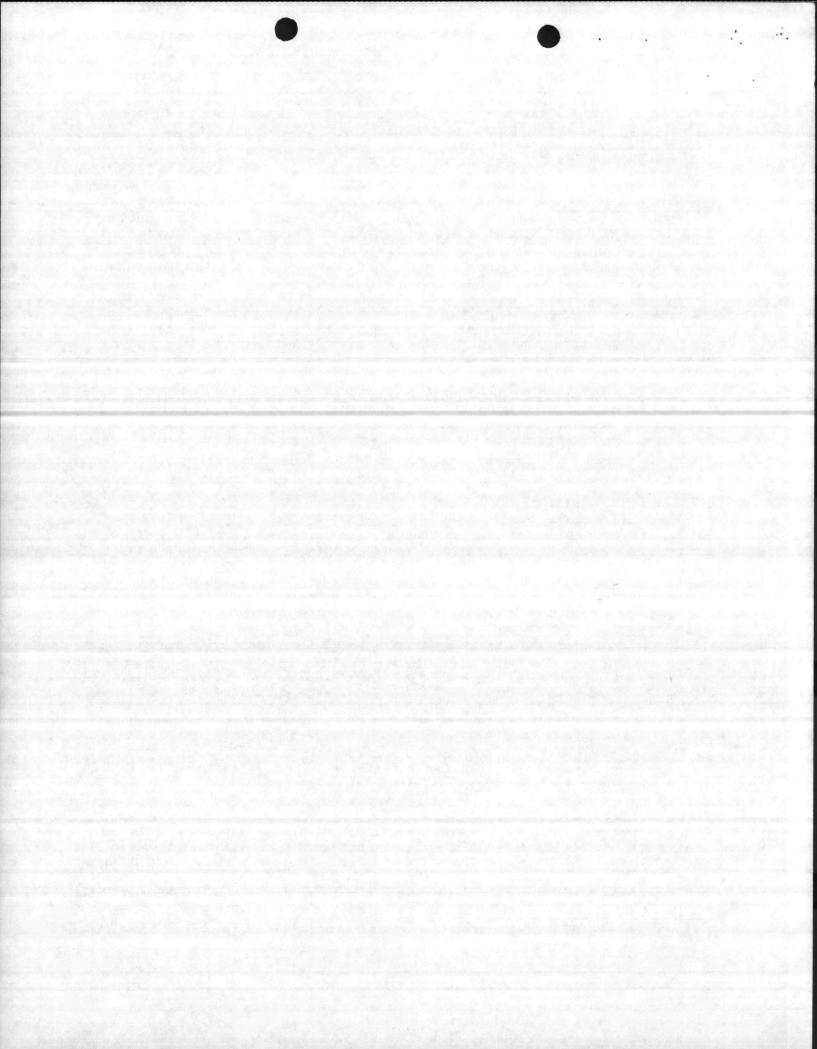
As previously mentioned, several buildings and structures must be removed for relocation or demolished. The buildings are all tin ,quonset buildings and the structures are made of concrete. The buildings and structure numbers and the year in which they were constructed are as follows: Building 1812-1951; Building 1814-1952; Building 1822-1951; Building 1823-1952; Building 1824-1951; and structure 1825-1952.

FIRE PROTECTION

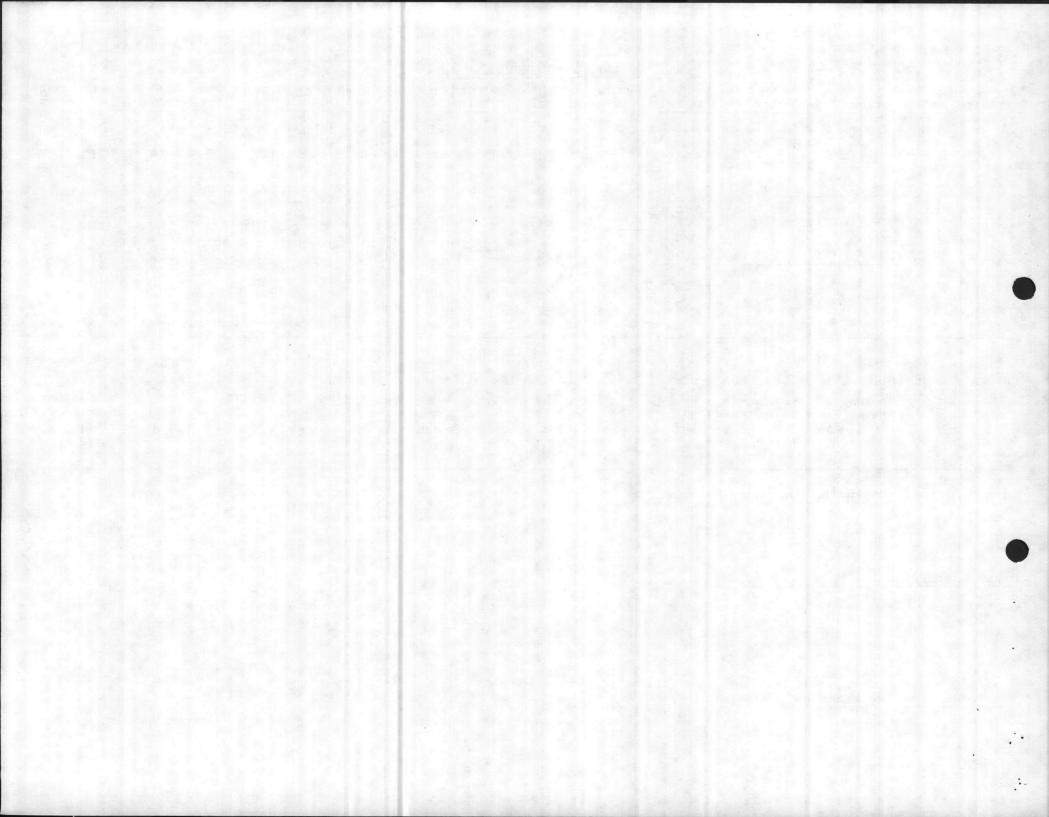
Fire protection is to conform with the requirements of DOD 4270.1M, Construction Criteria Manual; NAVFAC DM-8, Fire Protection Engineering; and applicable sections of National Fire Codes. Wall mounted carbon-dioxide extinguishing units shall be mounted in all shops and storage areas.

OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

This building complies with NAVFACINST 11012.136B of 30 September, 1976, to provide a safe and healthy environment for all workers.

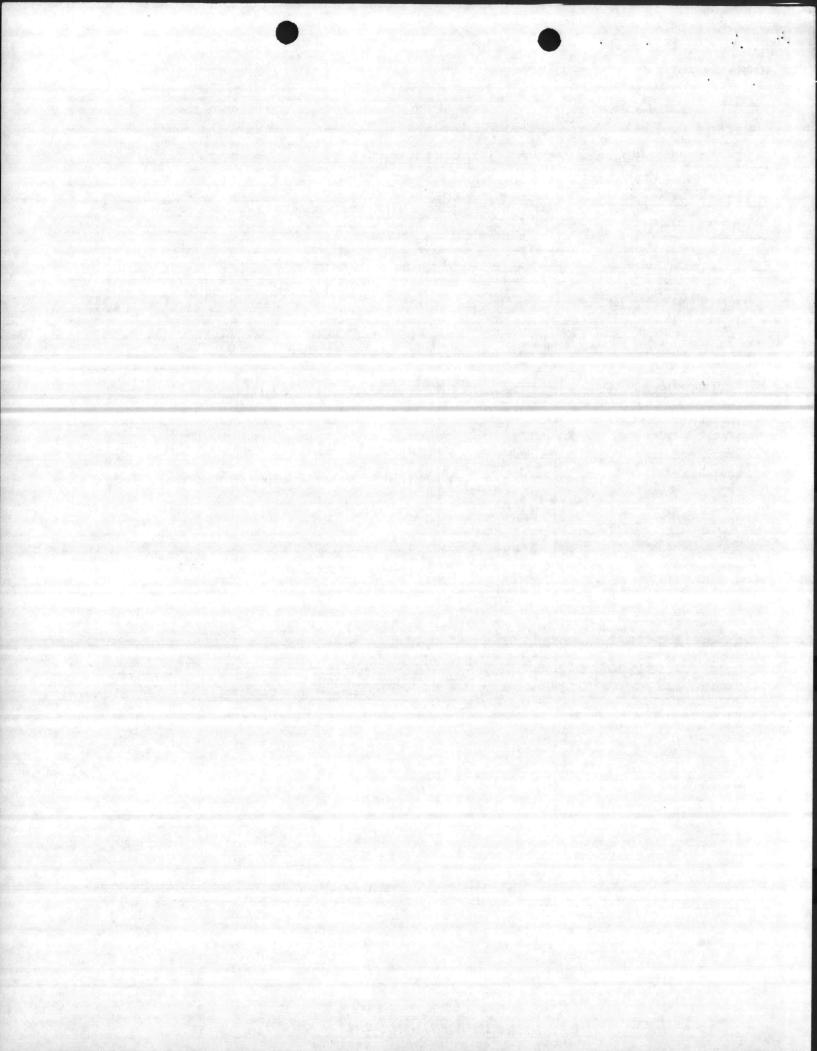


		SUMMARY OF ENER	name and an an and an an and an and an and					
Activity and Location	n: <u>Camp L</u>	e Corps Base _ejeune, N. C. Proje	ect Title: Ma	ectronics int. Shop	Communicati (P-175)	ons Date: _	1-June, 80	
E75 = 185	0 x 10 ⁶	_ BTUs per year (Tota)	l annual energy	consumptio	n if construct	ted in 19	975)	
E Current =	1485 x 10) ⁶ BTUs per year (Tota)	l annual energy	consumpt10	n incorporatio	ng curren	nt criteria)	
R = (1 - (E Current/E	(175)) 100 = 20 % (1	Percent reducti	on in energ	y consumption	current	year vs. 197	'5)
$ECC = \frac{\$1, 34}{34}$	8,000	(Estimated construc	tion cost for c	urrent crit	eria)			
Barrels of Oll	Equ <mark>ivalent</mark>	(B.O.E.) = <u>62.39</u>		f Fuel Oil 0 BTU/B.O.F		t Design	vs 1975)	
(1) (2) Priority Description of Measure	10 ⁶ BTUs	<pre>(4) (5) = Life Cycle (3)/(4) Cost (\$1000) Expressed as present worth</pre>	(6) 10 ⁶ BTUs Consumption/ Yr E	(7) % Energy Reduction of Measure R	(8) (6) Annual <u>Consumption</u> Bldg. Square Footage BTU/SF/yr		(10) First Cost of Measure (\$1000)	(11) Total Construc- tion Cost (10) + ECC (\$1000)
Current Design (Incl	uding Manda	atory Measures)						
R.								
			1485	20	64330	20		1348
			1405	20				
Other Cost Effective		Included	1465	20				
R1. Solar Domestic	8	Included						10//
Other Cost Effective R1. Solar Domestic R2.		<u>Included</u> 11.2 2.38		1.2	63173	21.2	16	1364
R1. Solar Domestic	8				63173	21.2	16	1364
R1. Solar Domestic R2. R3. Non-Cost Effective M	c 26.7	11.2 2.38			63173	21.2	16	1364
R1. Solar Domestic R2. R3.	c 26.7	11.2 2.38			63173	21.2	16	1364



	.1TY		DATE 1-Jul	y, 80
ACTIVITY (Name and Location)				
Marine Corps Base, Ca PROJECT TITLE	amp LeJeune,	<u>N. C.</u>	PI	NO.
Electronics /Communica			P-	175
DESCRIPTION OF ALTERNATIVES		Carl Start Start Start		
Alt. A Domestic Wate	er Heating Sc	lar System		
			gallon storag	e tank
Alt. B System without	ut solar			
PROJECT COST PROJECTIONS BY A	TEDNATIVES			
PROJECT COST PROJECTIONS BY A				
ALTERNATIVE A Solar D.W.	Η.	N. Shine and the second	ECONO LIFE	HIC 25 YRS.
DESCRIPTION AND YEAR	COST ONE TIME	TS (S) RECURRING	DISCOUNT	PRESENT VALUE (\$)
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OPERATIONS			A State of the state	
MAINTENANCE	Contraction of the second	and the second second	A STREET	and the second
PERSONNEL				
TERMINAL VALUE	Lotter La Alla			Sala and Balland
OTHER:				
		0	ISCOUNT FACTOR	UNIFORM ANNUAL COS
			=	
TOTAL PRESENT VALUE ALTERNAT	IVE A - \$ 18214	÷		
ALTERNATIVE 8 _ Energy Sav		÷	ECONO LIFE	HIC 25 YRS.
ALTERNATIVE &Energy Sav	ings	<u> </u>	DISCOUNT	PRESENT
	ings	S (S) RECURAING	LIFE	
ALTERNATIVE &Energy Sav	ings cost		DISCOUNT	PRESENT
ALTERNATIVE & Energy Sav DESCRIPTION AND YEAR INVESTMENT	ings cost	RECURAING	DISCOUNT FACTOR	PRESENT VALUE (\$)
ALTERNATIVE & Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATIONS	ings cost	RECURAING	DISCOUNT FACTOR	PRESENT VALUE (\$)
ALTERNATIVE B Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATIONS MAINTENANCE	ings cost	RECURAING	DISCOUNT FACTOR	PRESENT VALUE (\$)
ALTERNATIVE & Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATIONS	ings cost	RECURAING	DISCOUNT FACTOR	PRESENT VALUE (\$)
ALTERNATIVE B Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATIONS MAINTENANCE	ings cost	RECURAING	DISCOUNT FACTOR	PRESENT VALUE (\$)
ALTERNATIVE & Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATIONS MAINTENANCE PERSONNEL	ings cost	RECURAING	DISCOUNT FACTOR	PRESENT VALUE (\$)
ALTERNATIVE & Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATIONS MAINTENANCE PERSONNEL TERMINAL YALUE	Ings COST	AECURAING 426	DISCOUNT FACTOR	PRESENT VALUE (\$) 29440
ALTERNATIVE BEnergy Sav DESCRIPTION AND YEAR INVESTMENT OPERATIONS HAINTENANCE PERSONNEL TERMINAL YALUE OTHER:	ings COST	AECURAING 426	DISCOUNT FACTOR 69.11	PRESENT VALUE (\$) 29440
ALTERNATIVE B Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATIONS HAINTENANCE PERSONNEL TERMINAL YALUE OTHER: TOTAL PRESENT VALUE ALTERNATION	ings COST ONE TIME VE, B - 5 29440	426	LIFE DISCOUNT FACTOR 69.11 DISCOUNT FACTOR LI.R. = 29,440 =	PRESENT VALUE (\$) 29440 UNIFORM ANNUAL COS
ALTERNATIVE BEnergy Sav DESCRIPTION AND YEAR INVESTMENT OPERATION3 MAINTENANCE PERSONNEL TERMINAL YALUE OTHER: TOTAL PRESENT VALUE ALTERNATION REMARKS Life Cycle C Alt. A \$18,	ings COST ONE TIME IVE. B - S 29440 Cost 214	426	DISCOUNT FACTOR 69.11	PRESENT VALUE (\$) 29440 UNIFORM ANNUAL CO
ALTERNATIVE B Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATION3 MAINTENANCE PERSONNEL TERMINAL YALUE OTHER: TOTAL PRESENT VALUE ALTERNATION REMARKS Life Cycle C Alt. A \$18, Alt. B -29,	ings COST ONE TIME VE.B - 5 29440 Cost 214 440	AECURAING 426 	LIFE DISCOUNT FACTOR 69.11 USCOUNT FACTOR I.R. = <u>29,440</u> = 18,214	PRESENT VALUE (\$) 29440 UNIFORM ANNUAL COS
ALTERNATIVE BEnergy Sav DESCRIPTION AND YEAR INVESTMENT OPERATION3 MAINTENANCE PERSONNEL TERMINAL YALUE OTHER: TOTAL PRESENT VALUE ALTERNATION REMARKS Life Cycle C Alt. A \$18,	ings COST ONE TIME VE.B - 5 29440 Cost 214 440	AECURAING 426 	LIFE DISCOUNT FACTOR 69.11 DISCOUNT FACTOR I.R. = <u>29,440</u> = 18,214 AYBACK = <u>18,214</u>	PRESENT VALUE (\$) 29440 UNIFORM ANNUAL COS
ALTERNATIVE B Energy Sav DESCRIPTION AND YEAR INVESTMENT OPERATION3 MAINTENANCE PERSONNEL TERMINAL YALUE OTHER: TOTAL PRESENT VALUE ALTERNATION REMARKS Life Cycle C Alt. A \$18, Alt. B -29,	ings COST ONE TIME VE.B - 5 29440 Cost 214 440	RECURAING 426	LIFE DISCOUNT FACTOR 69.11 UISCOUNT FACTOR = .I.R. = <u>29,440</u> = 18,214	PRESENT VALUE (\$) 29440 UNIFORM ANNUAL COS 1.61 = 42.8

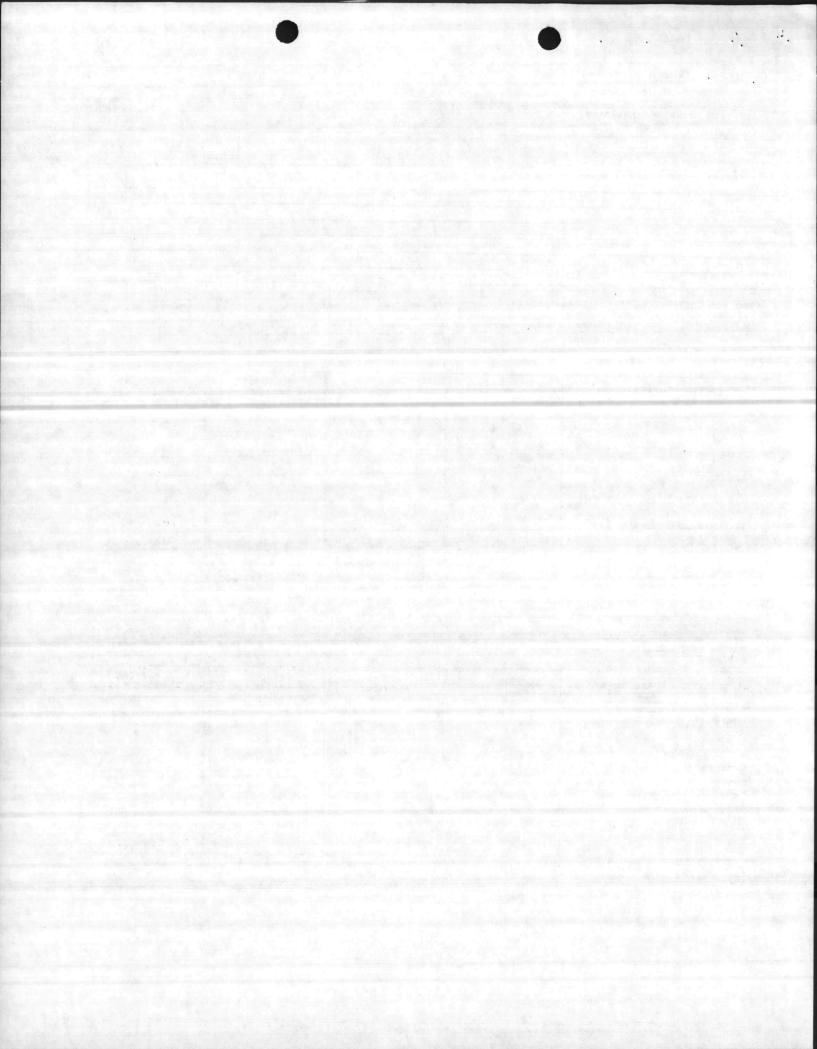
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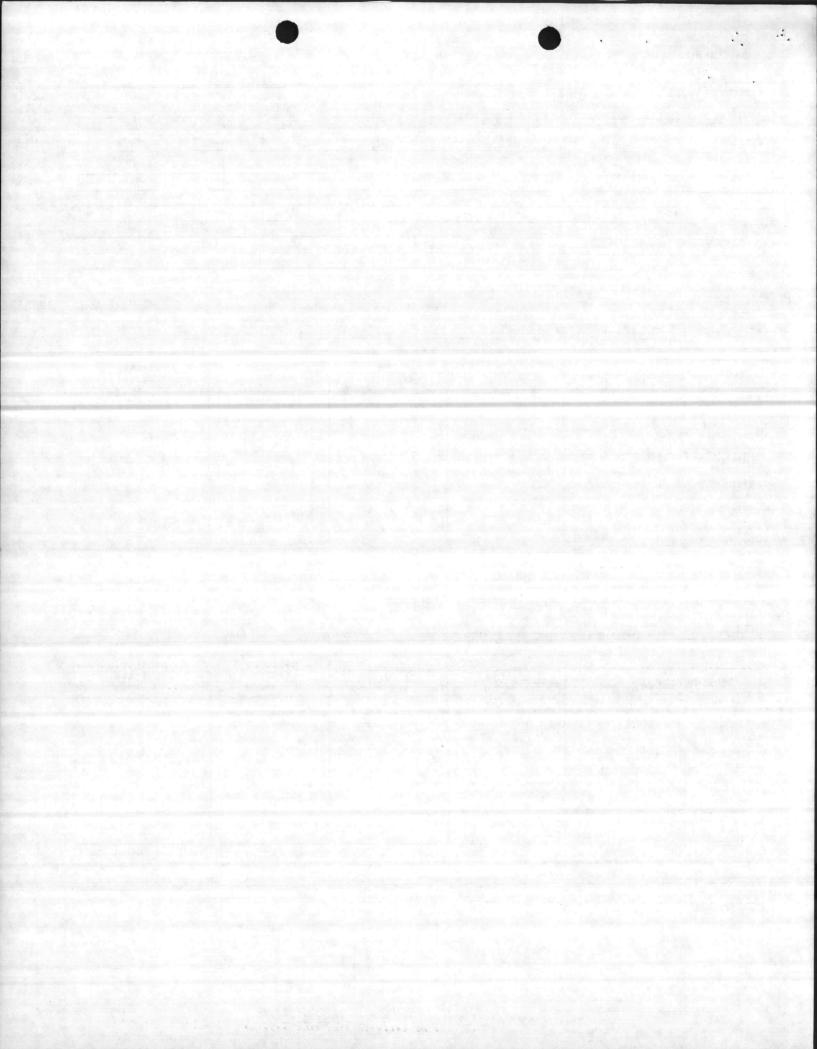
MONIC ANALYSIS OF SHURE FACIL	.117		DATE 1-July	y, 80
ACTIVITY (Hame and Location)				
Marine Corps Base, Q	amp LeJeune,	N. C.	P NO	
PROJECT TITLE	Strength and Mary		P-1	
Electronics Communic DESCRIPTION OF ALTERNATIVES	ations Mainte	enance Shop	I <u>F</u> =_	_/J
Alt. A Single Zone	Package Units	8		
Alt. B Heat Pumps	· · · ·			
		and a first second second		
PROJECT COST PROJECTIONS BY A	LTERNATIVES	in the second second	1.1	
ALTERNATIVE A Single Zor	ne Package Uni	its	ECONONI LIFE	<u>د اج</u>
		·S (\$)	DISCOUNT	PRESENT
DESCRIPTION AND YEAR	ONE TIME	RECURRING	FACTOR	VALUE (\$)
INVESTMENT	107,452		· ·	107,452
OPERATIONS			Sec. Sugar	
			de transferences	
MAINTENANCE				
PERSONNEL				
TERMINAL VALUE				
OTHER: Electric		23,780	12.278	291,970
Steam		DIS	COUNT FACTOR	UNIFORM ANNUAL
TOTAL PRESENT VALUE ALTERNAT	IVE A - \$ 401,62	<u>25</u> ÷	=	
ALTERNATIVE 8 Heat Pumps	6		ECONOMI LIFE	c <u>15</u> rr
	COST	- (1)	DISCOUNT	PRESENT
DESCRIPTION AND YEAR	ONE TIME	RECURRING	FACTOR	VALUE (\$)
INVESTMENT	110,775	Maria Santa Al	Sec. A. S.	110,775
OPERATIONS				
MAINTENANCE				
PERSONNEL	and the second second			
TERMINAL VALUE				and the second
OTHER: Electric		23,621	12.278	290,019
Steam			COUNT FACTOR	UNIFORM ANNUAL

1

Alt. C is selected due to the lowest total present value.



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CTIVITY (Hame and Location)				
Marine Corps Base, C	amp LeJeune,	N. C.	IP	NO.
Electronics Communic				-175
ESCRIPTION OF ALTERNATIVES				
Alt. C Variable Air	Volume			
PROJECT COST PROJECTIONS BY A	LTERNATIVES			
ALTERNATIVE C VARIABLE AL	R VOLUME		ECON LIFE	DHIC 15 YRS
DESCRIPTION AND YEAR	COST	rs (\$)	DISCOUNT	PRESENT
DESCRIPTION AND TEAR	ONE TIME	RECURRING	FACTOR	VALUE (\$)
NVESTHENT	112,991			112,991
OPERATIONS				
AINTENANCE				
PERSONNEL				
사람이 물건이 많은 것이 많이			비사 감독 관	
TERMINAL VALUE DTHER: Electric	Showed and him	23,302	12.278	286,102
Steam		149	13.112	1,954
TOTAL PRESENT VALUE ALTERNATI	VE A - \$ 401,04		ECONC	HIC YPS.
		· · · · · · · · · · · · · · · · · · ·		
DESCRIPTION AND YEAR	ONE TIME	RECURRING	FACTOR	PRESENT VALUE (\$)
INVESTMENT				
OPERATIONS				
MAINTENANCE				
PERSONNEL		Survey Section		
and the second sec				
TRAILUAL WALLE		a series and a series		and the second second
TERMINAL VALUE	Contract of the second se		The second second	
TERMINAL VALUE DTHER:				



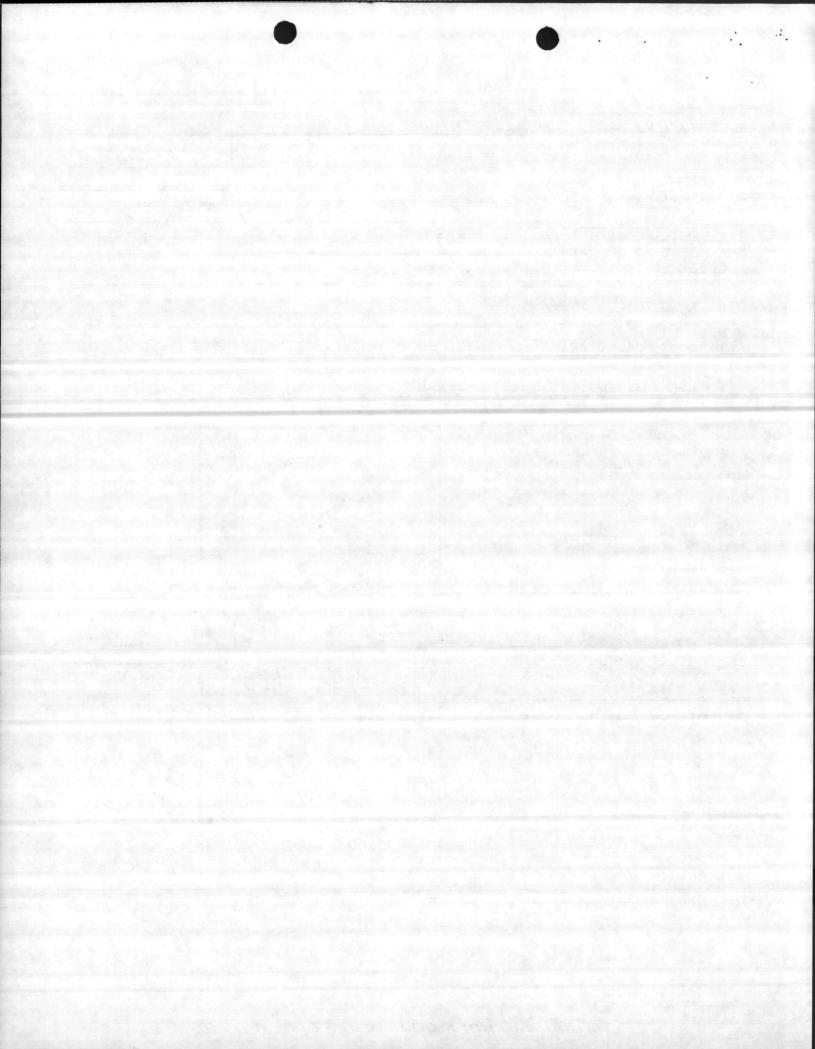
NOMIC ANALYSIS or chome racilit			DATE	l July 1980
CTIVITY (Hame and Location)			NIA	
MARINE CORPS BASE, CAL	MP LEJEUNE, M	NORTH CAROLI	NA	10
ELECTRONICS /COMMUNICA	TIONS MAINTEN	NANCE SHOP		P-175
ESCRIPTION OF ALTERNATIVES				
A. LOAD BEARING CMU	STEEL ROOF			
A. LOAD BEAKING CHO				
3. STRUCTURAL STEEL	FRAME STEEL I	ROOF		· · · · · · · · · · · · · · · · · · ·
	· · · · · · · · · · · · · · · · · · ·			
PROJECT COST PROJECTIONS BY ALT	ERNATIVES			
LOAD BEARIN	G CMU STEEL I	ROOF	ECONOL LIFE	NIC 25 YR:
T	COSTS	(5)	DISCOUNT	PRESENT
DESCRIPTION AND YEAR	ONE TIME	RECURRING	FACTOR	VALUE (S)
FOUNDATION			and the second	500.000
CMU LOAD BRG.	. 506,000			506,000
PERATIONS STEEL ROOF				
LAINTENANCE		1 1		
PERSONNEL		and the second		
FERMINAL VALUE				
TERMINAL VALUE				
DTHER:	· · · · · · · · · · · · · · · · · · ·		<u> </u>	1
TOTAL PRESENT VALUE ALTERNATIVE	A · \$ 506,00		9.524 =	UNIFORM ANNUAL CO \$53,129
	<u></u>			
ALTERNATIVE 8 STRUCTURAL	STEEL FRAME	, STEEL ROOF	ECONON LIFE	nc 25 Yes.
T	COSTS	(\$)	DISCOUNT	PRESENT
DESCRIPTION AND YEAR	ONE TIME	RECURAING	FACTOR	VALUE (\$)
FOUNDATION				
STRUCTURAL	590 000			580,000
STEEL FRAME STEEL ROOF	580,000		Shear Street	
MAINTENANCE CMU WALLS			and the second second second	an high opposition
PERSONNEL				
The second se				
TERNINAL VALUE	and the second			A State of the second sec
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TERMINAL VALUE DTHER:				

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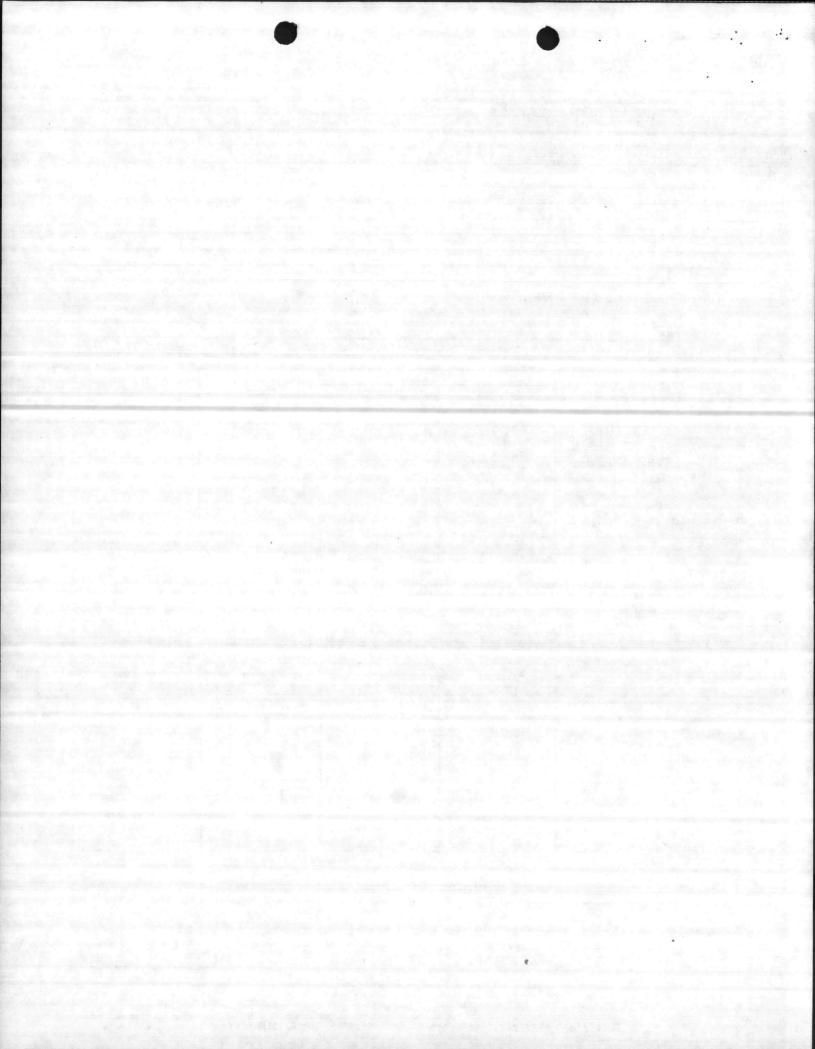
MONIC ANALYSIS UN CONTRACIL			DAIL	1 July 1980
ACTIVITY (Mame and Location) MARINE CORPS BASE, CA	MD IFITINF	NORTH CAROL	TNA	•
MARINE CORPS BASE, CA	AMP LEOLONE,	NORTH CAROL		NO.
ELECTRONICS/COMMUNICA	ATIONS MAINTE	NANCE SHOP		P-175
DESCRIPTION OF ALTERNATIVES			1	land. Ng bagan ng kalanta ng Kalanta
C. PC/PS STRUCTURAL I	FRAME PC/PS R	OOF		
	·····			
PROJECT COST PROJECTIONS BY AL	TERNATIVES			
ALTERNATIVE & PC/PS STRUC	TURAL FRAME P	C/PS ROOF	ECON LIFE	ONIC 25 YRS
DESCRIPTION AND YEAR	and the second se	S (3)	DISCOUNT	PRESENT VALUE (\$)
	ONE TIME	RECURRING	TACIÓN	TALUE (3)
INVESTMENT FOUNDATION STRUCTURAL	683,000			683,000
OPERATIONS PC/PC FRAME				
CMU WALLS				
PERSONNEL				
TERMINAL VALUE	Same Maria			
OTHER:				1
TATH BOCCONT MALIE ALTERNATIN	·····		DISCOUNT FACTOR	UNIFORM ANNUAL CO 71,714
TOTAL PRESENT VALUE ALTERNATIV	683,00	<u>)0</u> ÷	9.524 =	/1,/14
			ECOK	CHIC TRS-
ALTERNATIVE 8			LIFE	IW-
DESCRIPTION AND YEAR	COSTS ONE TIME	(S) RECURRING	DISCOUNT	PRESENT VALUE (\$)
	Unit Time			
INVESTMENT	$\mathbf{y} = \{ \mathbf{y} \in [1, 1] \}$			
OPERATIONS		and a state	the second second	
	and the distance with			
MAINTENANCE	and the second		1 35 3 38 38 39 3	
MAINTENANCE PERSONNEL				
and sever in the State				
PERSONNEL				
PERSONNEL TERMINAL VALUE OTHER:	F.B 5	· · · · · · · · · · · · · · · · · · ·	DISCOUNT FACTOR	UNIFORM ANNUAL CO
PERSONNEL TERMINAL VALUE	Έ,8 - \$		DISCOUNT FACTOR	

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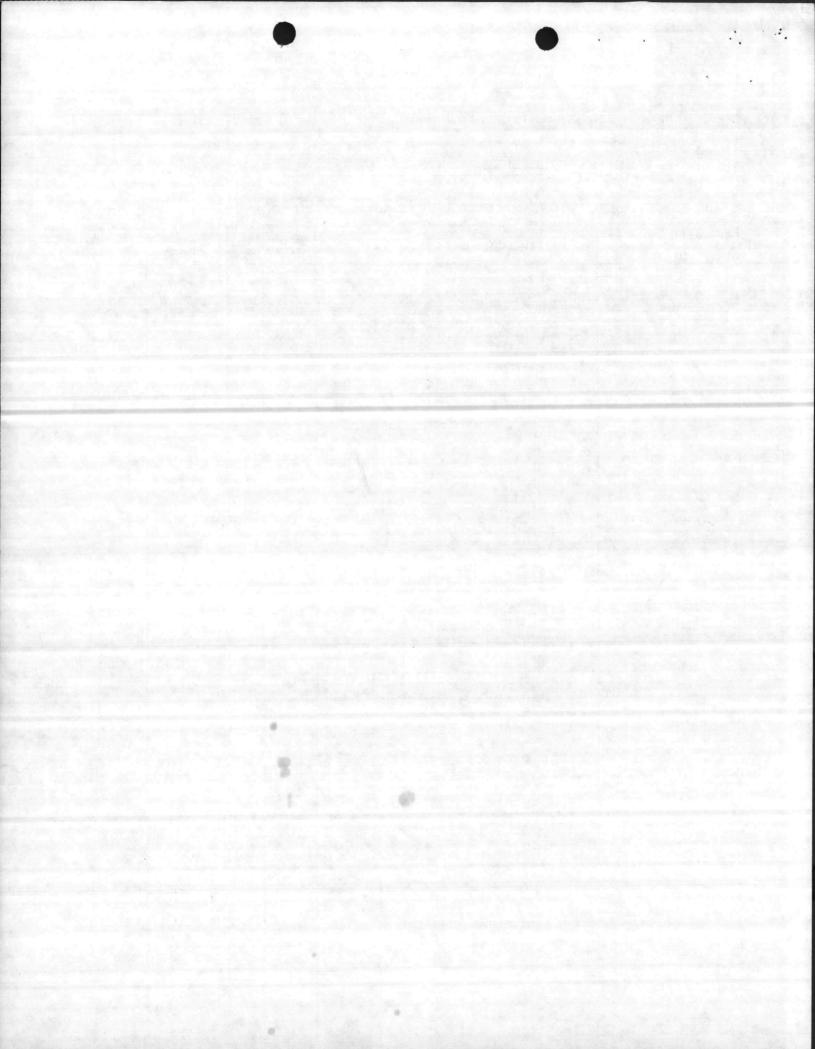
(Attach separate sheet showing derivation of cost entries)



COG. SYMBOL AND PED. STOCK MO. OR OTHER SOURCE ITEM/EQUIPMENT DESCRIPTION QUAN FILTY UNIT OF PRICE 1. BUILT-IN EQUIPMENT TO BE MCON FUNDED *Compressed air system SYS *Sprinkler system SYS *Sys 37,000 SYS 37,000 9 *A-TON Hydraulic Lift 1 EA 10,000 10 *Crane, overhead - 5 ton/ capacity 1 EA 15,000 15 *Exhaust system, overhead, fractional HP, 208V, 3 phase SYS 18,000 18 TOTAL BUILT-IN EQUIPMENT Benches, work, portable, 48" 15 EA 225 3 2. EXPENSE ITEMS Benches, work, stationary, 28"DX34"H, stl top, std, lead 10 EA 281 2	175
ELECTRONICS/COMMUNICATIONS MAINTENANCE SHOP (DIV HQ BN) P- COG.SYMBOL AND FED.STOCK NO. OR OTHER SOURCE ITEM/EQUIPMENT DESCRIPTION QUAN. UNIT OTHER SOURCE UNIT UNIT FITTY UNIT UNIT UNIT FITTY UNIT UNIT FITTY UNIT ENTY STATE STA	175
FED. STOCK NO. OR OTHER SOURCE ITEM/EQUIPMENT DESCRIPTION OF OTHER OF PRICE 1. BUILT-IN EQUIPMENT TO BE MCON FUNDED *Compressed air system / *Sprinkler system / *4-Ton Hydraulic Lift SYS 9,000 9 **Crane, overhead - 5 ton / capacity *Crane, overhead - 5 ton / capacity I EA 10,000 10 *Exhaust system, overhead, / fractional HP, 208V, 3 phase I EA 15,000 15 *Equipment with associated installation cost. TOTAL BUILT-IN EQUIPMENT 89 *Equipment with associated installation cost. I EA 225 3 Benches, work, portable, 48" x28"x34"H 15 EA 225 3 Benches, work, stationary, 28"DX34"H, stl top, std, lead I0 EA 281 2	COST
TO BE MCON FUNDED *Sprinkler system / *4-Ton Hydraulic Lift *Crane, overhead - 5 ton / capacity *Exhaust system, overhead, fractional HP, 208V, 3 phase 1 EA 10,000 10 *Equipment with associated installation cost. 1 EA 15,000 15 *Equipment with associated installation cost. TOTAL BUILT-IN EQUIPMENT 89 89 *Equipment with associated installation cost. 89 89 *Equipment with associated installation cost. 15 EA 225 Benches, work, portable, 48" 15 EA 225 3 Benches, work, stationary, 28"Dx34"H, stl top, std, lead 10 EA 281 2	
<pre>capacity *Exhaust system, overhead, fractional HP, 208V, 3 phase 1 EA 15,000 15 *Exhaust system, overhead, fractional HP, 208V, 3 phase 1 SYS 18,000 18 TOTAL BUILT-IN EQUIPMENT 89 *Equipment with associated installation cost. 2. EXPENSE ITEMS Benches, work, portable, 48" 15 EA 225 3 Benches, work, portable, 72" 10 EA 281 2 Benches, work, stationary, 28"Dx34"H, stl top, std, lead</pre>	,000
*Èquipment with associated installation cost. SYS 18,000 18 2. EXPENSE ITEMS Benches, work, portable, 48" x28"x34"H 15 EA 225 3 Benches, work, portable, 72" x28"x34"H 10 EA 281 2	,000
*Equipment with associated installation cost. 2. EXPENSE ITEMS Benches, work, portable, 48" x28"x34"H Benches, work, portable, 72" x28"x34"H Benches, work, stationary, 28"Dx34"H, stl top, std, lead	,000
2. EXPENSE ITEMS Benches, work, portable, 48" x28"x34"H Benches, work, portable, 72" x28"x34"H Benches, work, stationary, 28"Dx34"H, stl top, std, lead	,000
x28"x34"H Benches, work, portable, 72" x28"x34"H Benches, work, stationary, 28"Dx34"H, stl top, std, lead	
x28"x34"H Benches, work, stationary, 28"Dx34"H, stl top, std, lead	,375
28"Dx34"H, stl top, std, lead	,810
	,928
Parts bins, adj shelving, 14" x24"D 5 EA 132	660
Grinder, bench 7" w/buffer wheel 1 EA 424	424

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COLLATERAL EQUIPMENT REQUIR ENTS (Initial Outfitting) 5ND LANTDIV 4-11010/6 (NEW 2-79) 1

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DATE 1 July 1980

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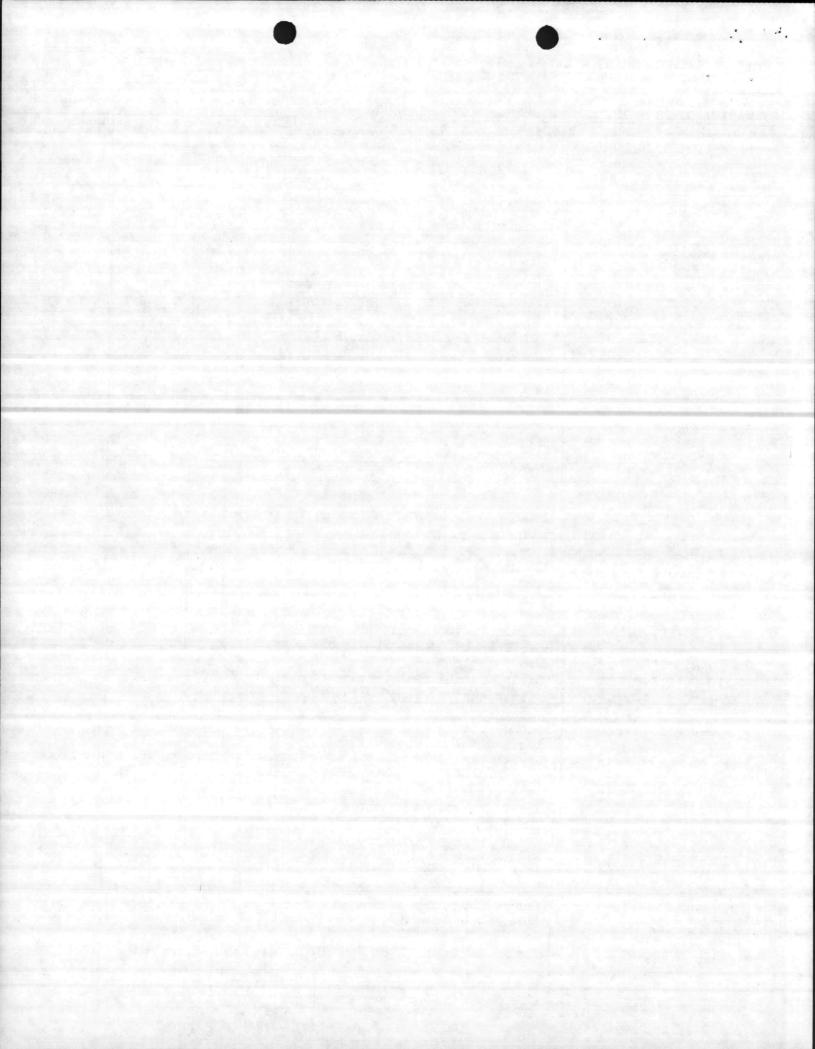
PROJECT TITLE	LEJEUNE, NORTH CAROLINA 28542		in a star	i in states i	р. NO. P-175
ELECTRONICS/COMMUNICALL COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
	Parts rota bins, 3' dia. multi bin	10	EA	380	3,800
	Battery charger, 6 & 12V selenium type; battery tester, 6 & 12V, 2.2 KW, 208V	3	EA	616	1,848 i
	12"W shelving w/adj stds. 6 shelves, 36"W & 84"H	20	EA	100	2,000
	14"W shelving w/adj stds	20	EA	176	3,520
	Student chairs, Heywood Wakefield Mod. HC-7730-PABS-PP	32	EA	44	1,408
7110-00-113-2744	Desk, flat top, dbl ped, 60"x30", walnut pattern, top, no overhang	3	EA	248	744
7110-00-113-2817	Desk, flat top, 45"x30" walnut pattern top, no overhang	9	EA	176	1,584
7110-00-113-9482	Chair, rotary, tilting seat & back, adj. seat height, w/arms, w/casters	17	EA	103	1,751
7110-00-113-2832	Desk, flat top, w/attach for sec'l & gen. clerical purposes	9	EA	193	1,737
7110-00-118-8998	Chair, secretarial, rotary adj. seat height, w/arms, w/casters	9		· 87	783
7110-00-113-0921	Stand, office machine, 2 drop leaves, walnut pattern top, w/casters	5	EA	91	455
	Typewriter, IBM electric 13-12" carriage, carbon ribbon, 10 pitch Model 833	5	EÀ	781	3,905
7110-00-497-2012	Filing cabinet, 5 drawer, legal size, w/o lock	7	EA	230	1,610
7125-00-764-6121	Cabinet, storage, dbl door, 36"x18"x80-1/16"H	9	EA	- 152	1,368
7110-00-004-6764	Bookcase, base, 33"x13"x10"H	. 10	D EA	14.30	14

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Page 2 of

4:

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COLLATERAL EQUIPMENT REQUIREMENTS (Initial Outfitting) 5ND LANTDIV 4-11010/6 (NEW 2-79)

5140 LANTDIV 4-11010/0 (1421 2-13)

1. ACTIVITY (Name and Location)

MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 P. NO. 2. PROJECT TITLE P-175 ELECTRONICS/COMMUNICATIONS MAINTENANCE SHOP (DIV HQ BN) UNIT COG. SYMBOL AND TOTAL. QUAN-UNIT OF ITEM/EQUIPMENT DESCRIPTION FED. STOCK NO. OR OTHER SOURCE PRICE TITY COST 42 32 1,344 FA Bookcase, section, w/o doors, 7110-00-831-7430 31"x12"x14"H 12 120 Bookcase, top, 33"x13"x24"H 10 EA 7110-00-471-4039 50 EA 61 3,050 Chair, straight, w/o arms 7110-00-190-7085 12 EA 39 468 7195-00-004-0652 Costumer, wearing apparrel, contemporary, 4 dbl hooks, round pole w/rd base 220 5 EA 44 Rack, wearing apparel, contem-7195-00-004-6716 porary, 6 metal hangers, 78"Hx 30"Lx20"D at base 5.50 Wastepaper basket, dark brown, 20 FA 110 7520-00-285-5416 145"Hx13" dia. top 72 648 19 PR Draperies 4 PR 83 332 Draperies 860 43 20 EA Desk lamp 6230-00-682-3423 286 5 EA 1.430 Adding machine, Monroe Model 1405 . 7 73 511 EA Bulletin board, cork, alum frame, 4'x6' 2 EA 66 132 Portable easel 7110-00-177-4902 115 805 7 EA Table, gen. purpose (classroom) 60"x30"x2912"H . 1,452 21,780 Benches, work electronic, 60 & 400 15 EA cycle, 28V 70,663 TOTAL EXPENSE ITEMS Shipping, packing, handling, installation charges and contingendies -110% 7,066 INVESTMENT ITEMS 3. Security Rack for Mechanics' tool EA 3,168 12,672 4 boxes; 24 openings 12,672 TOTAL INVESTMENT ITEMS

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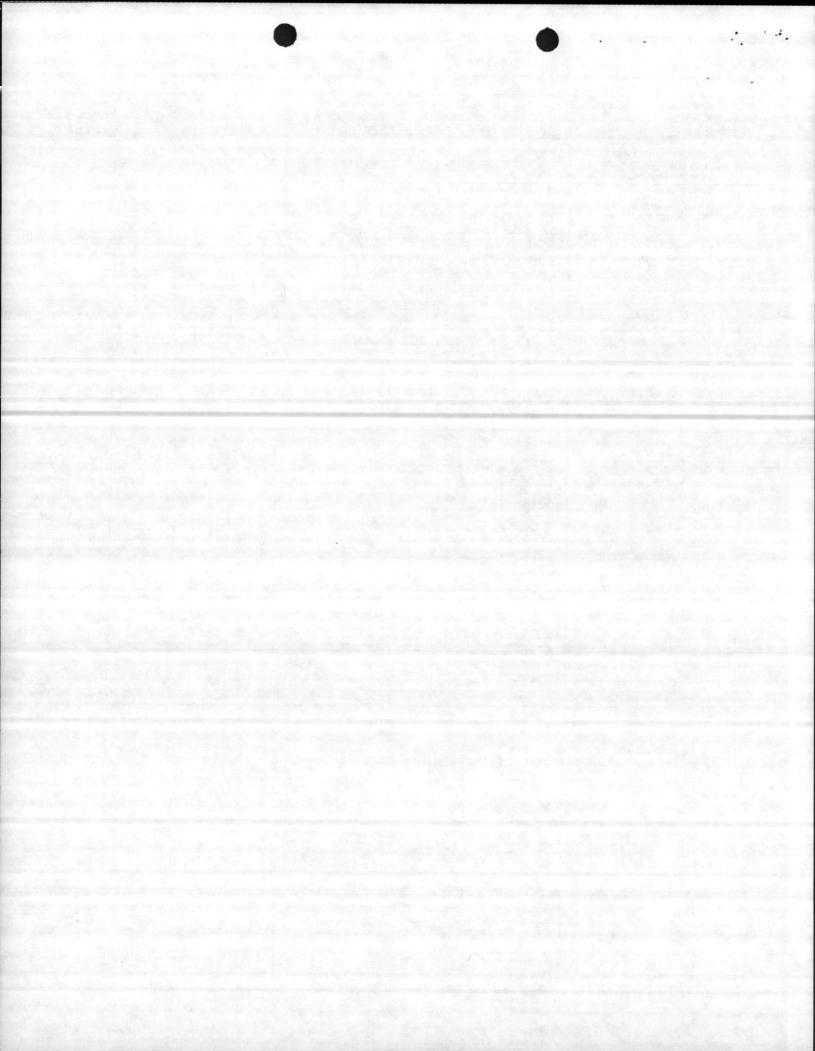
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COLLATERAL EQUIPMENT REQL . EMENTS (Initial Outfitting) 5ND LANTDIV 4-11010/6 (NEW 2-79)

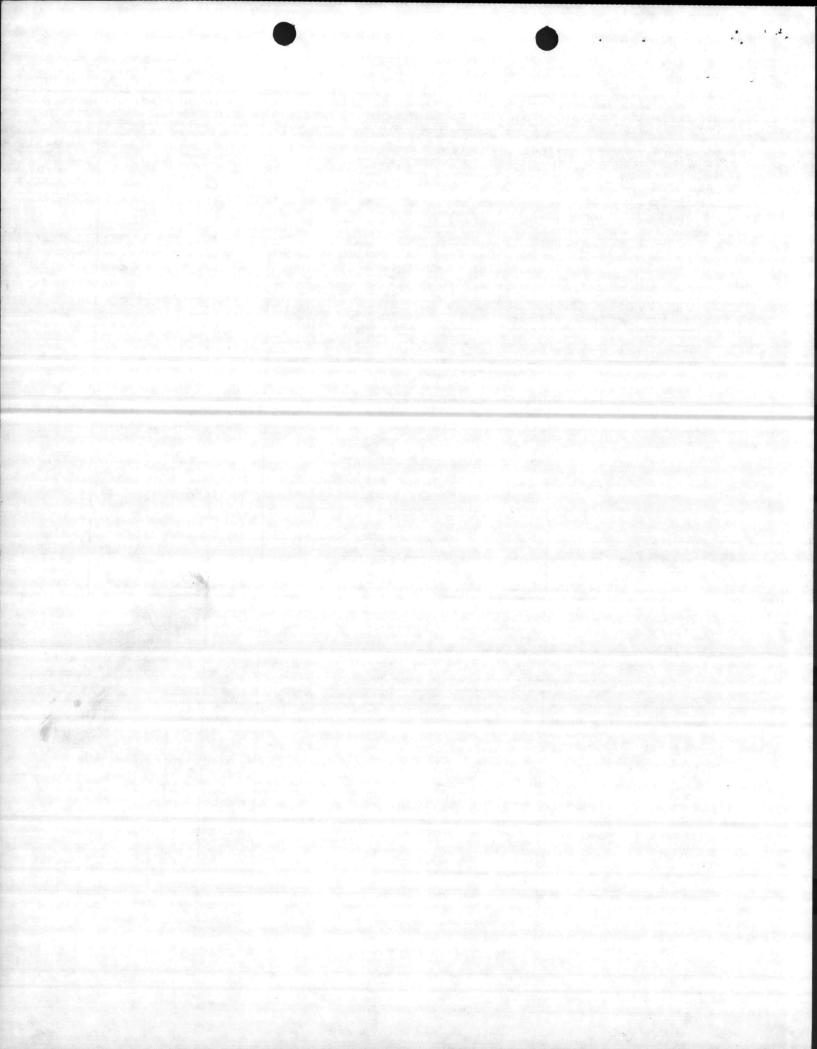
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DATE 1 July 1980

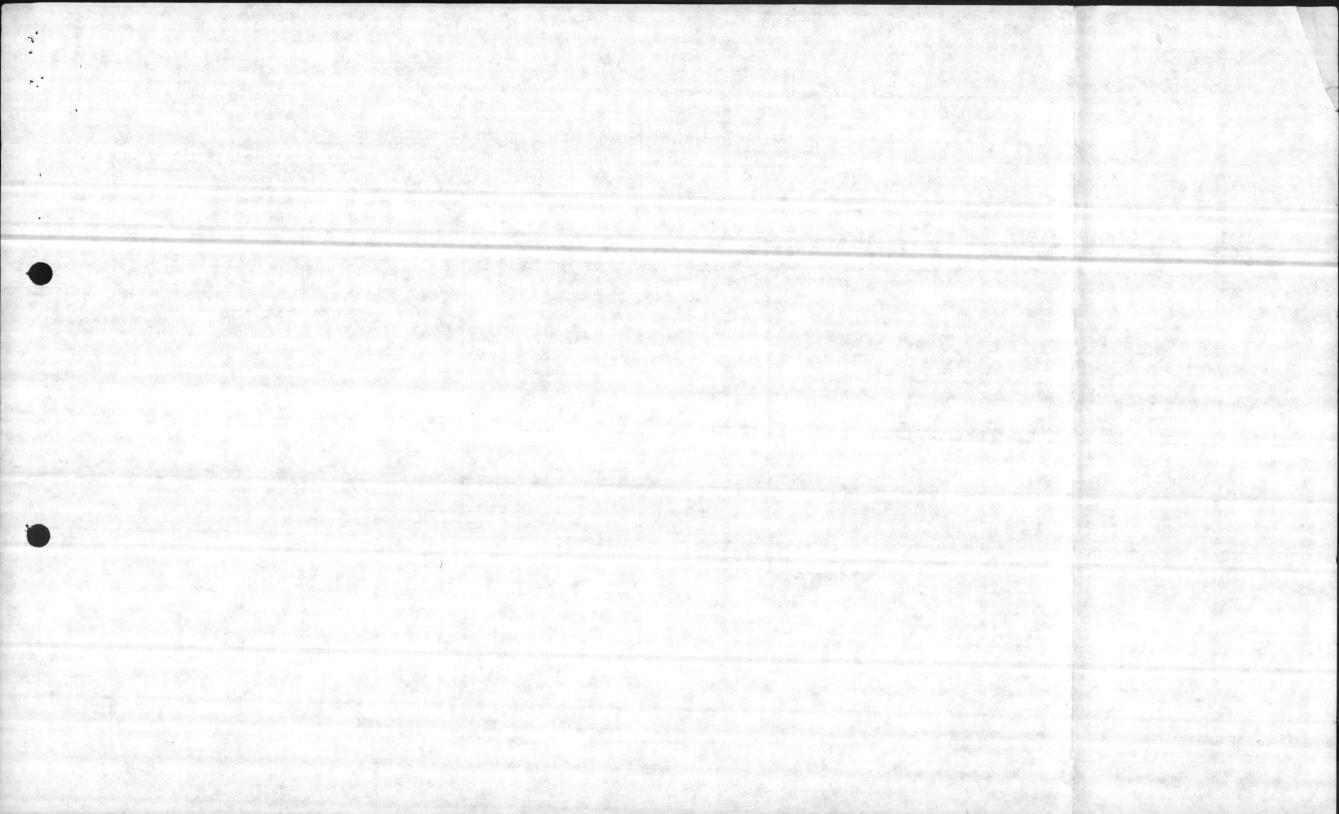
MARI	ITY (Name and Location) INE CORPS BASE, CAMP	P LEJEUNE, NORTH CAROLINA 28542				P. NO.
	CT TITLE	LONS MAINTENANCE SHOP (DIV HQ BN)				P-175
	COG. SYMBOL AND ED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT	TOTA
3.		continued) Shipping, packing, handling, installation charges & contingencies - 10%				1,267
4.	APA EQUIPMENT	None	and the second			
5.	TRAINING EQUIPMENT	Movie projector	2	EA	693	1,386
		Movie screen	2	EA	132	264
		Overhead projector	2	EA	453	906
		TOTAL TRAINING EQUIPMENT				\$2,556
		Shipping, packing, handling, installation charges & contin- gencies - 10%). 	255
6.	SUMMARY	TOTAL INVESTMENT ITEMS				13,939
		TOTAL TRAINING COST	100	and the second s		2,811
		TOTAL BUILT-IN EQUIPMENT		-		89,000
		EXPENSE ITEMS	· ·			77,729
		TOTAL EXPENSE ITEMS				103,379
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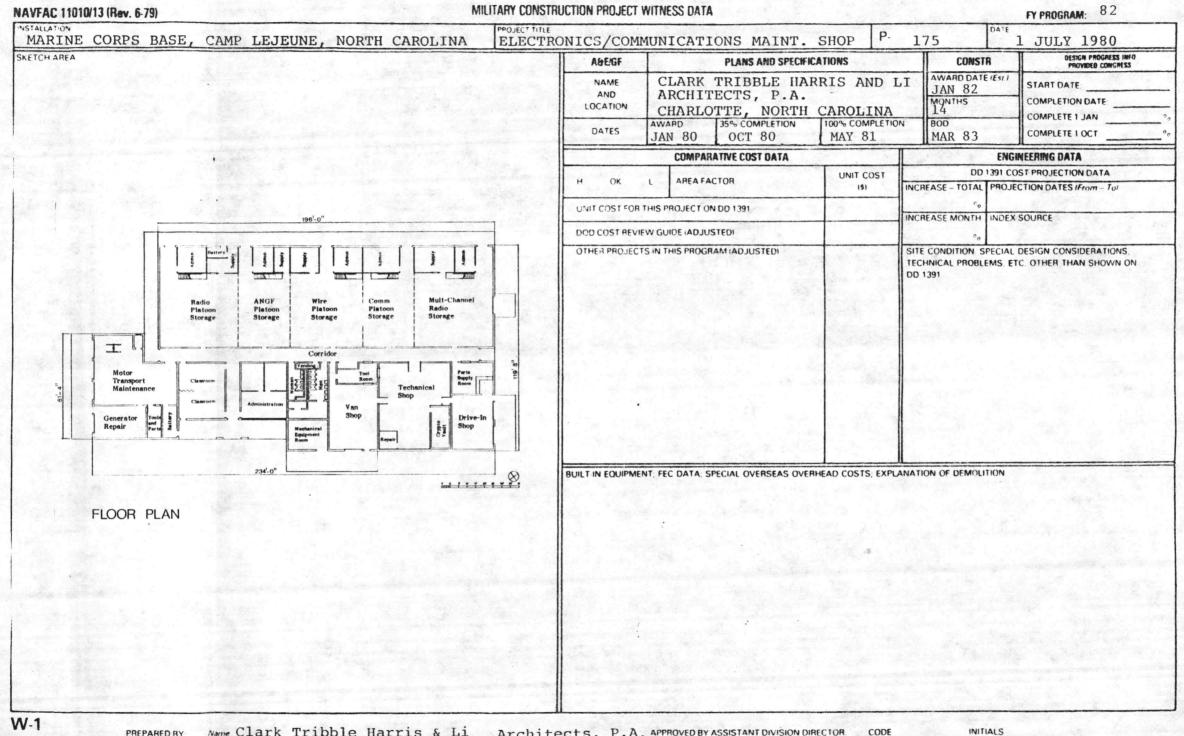
of 4 -4 Page



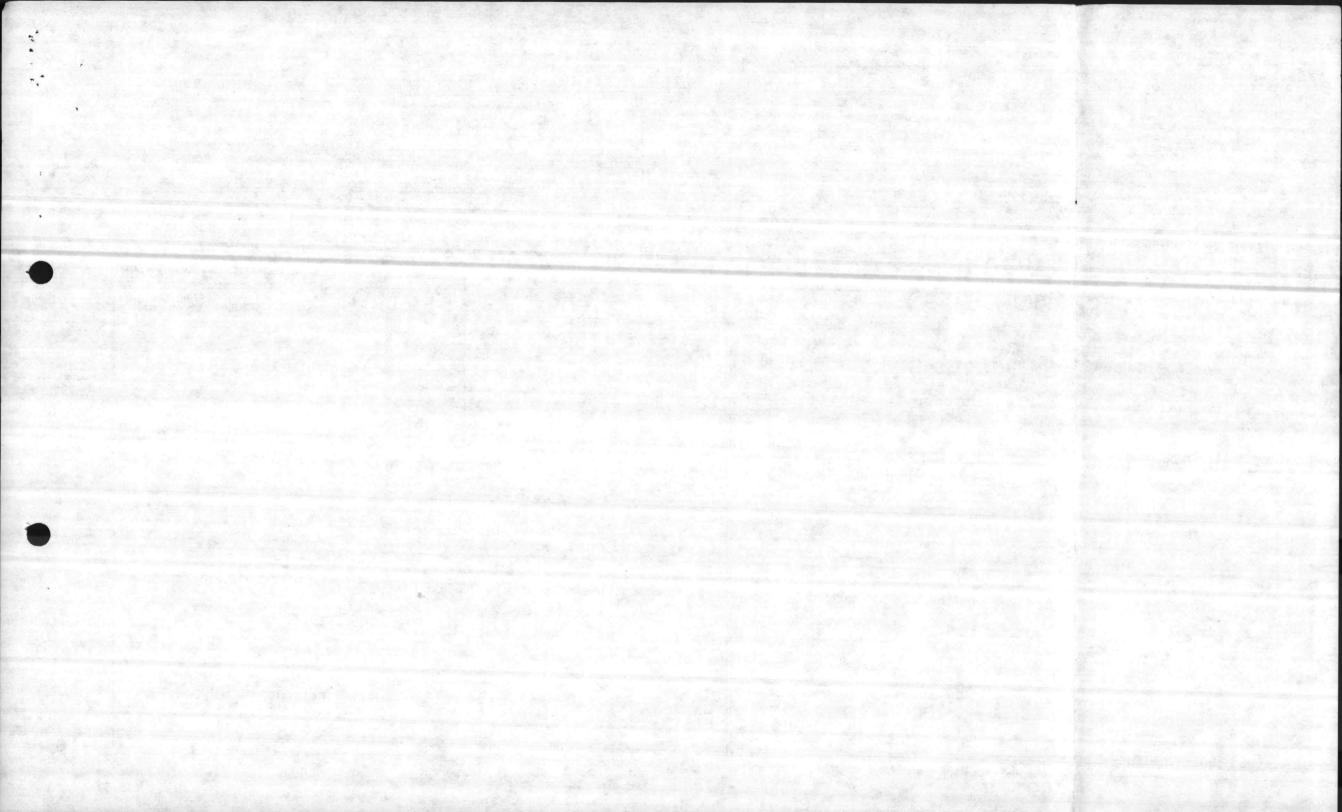
ALLATION IARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA	ONICS/COM	UNICATIONS MAINT.	SHOP P.	175	L JULY 1980
TCH AREA	A&E/GF	PLANS AND SPECIFICA	TIONS	CONSTR	DESIGN PROGRESS INFO PROVIDED CONGRESS
	NAME AND LOCATION DATES	CLARK TRIBBLE HAR ARCHITECTS, P.A. CHARLOTTE, NORTH AWARD JAN 80 OCT 80	in philippi	MONTHS	START DATE: COMPLETION DATE COMPLETE 1 JAN COMPLETE 1 OCT:
		COMPARATIVE COST DATA		ENGI	NEERING DATA
			UNIT COST	DD 1391 CO	ST PROJECTION DATA
	н ок	L AREA FACTOR	(\$)	INCREASE TOTAL PROJE	CTION DATES (From - To)
9-1715 C D Lireo E	UNIT COST FOR THIS PROJECT ON DD 1391			°0	COURCE
9-1715	DOD COST BEVIE	W GUIDE (ADJUSTED)		INCREASE MONTH INDEX	SOUNCE
S-1752 S-1761 1849 O	1	S IN THIS PROGRAM (ADJUSTED)		SITE CONDITION SPECIAL	DESIGN CONSIDERATIONS
BOO BOO BOO BOO BOO BOO BOO BOO	BUILT IN EQUIPME	NT FEC DATA SPECIAL OVERSEAS OVER	IEAD COSTS, EXPLA	NATION OF DEMOLITION	
NAP SHOWING PORTION OF HADNOT POINT AREA CAMP LEJEUNE, MORTH CANOLINA BILL BUD BUD BUD BUD BUD BUD BUD BUD BUD BUD					
manage v. Clark Tribble Harris & Li Archit					

PREPARED BY Name Clark Tribble Harris & Li Architects, P.A. APPROVED BY ASSISTANT DIVISION DIRECTOR CODE . .





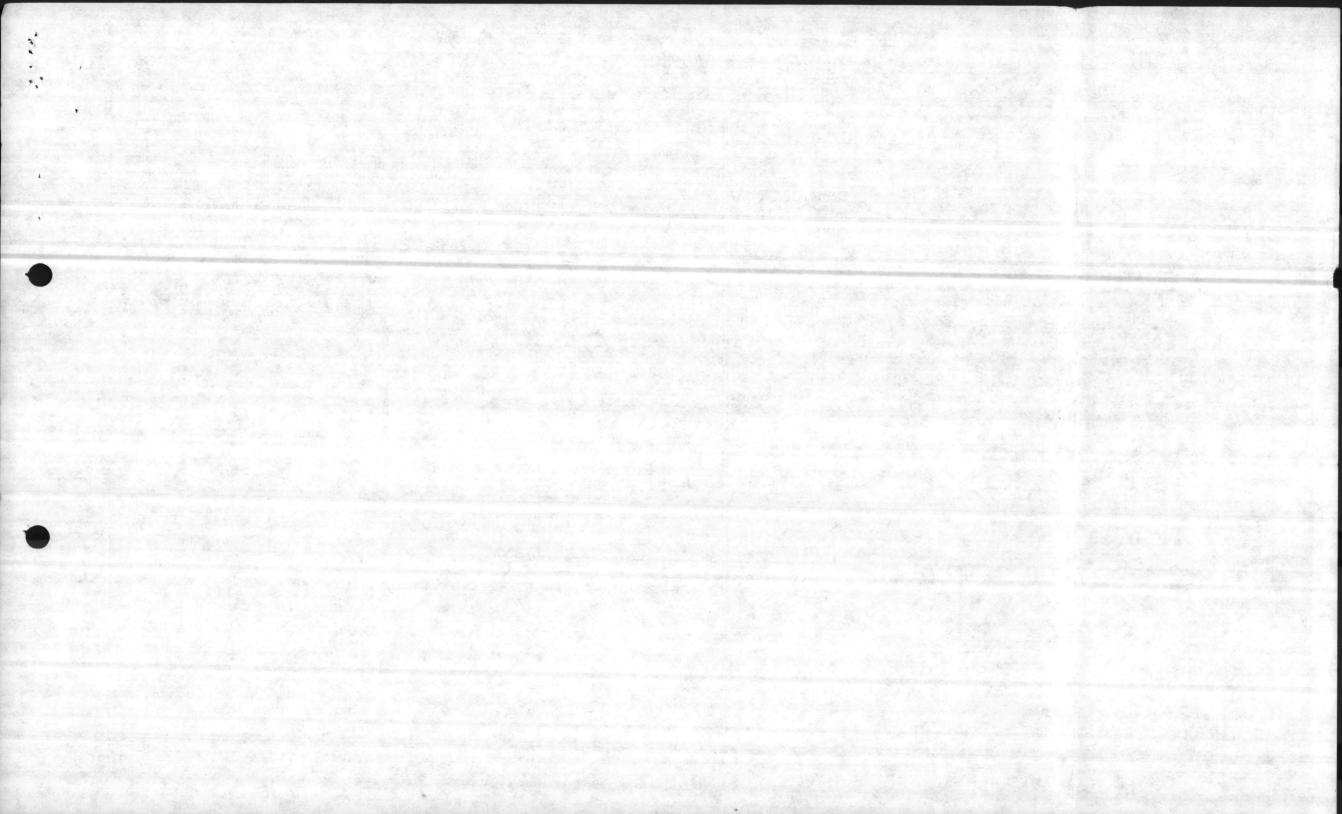
INITIALS

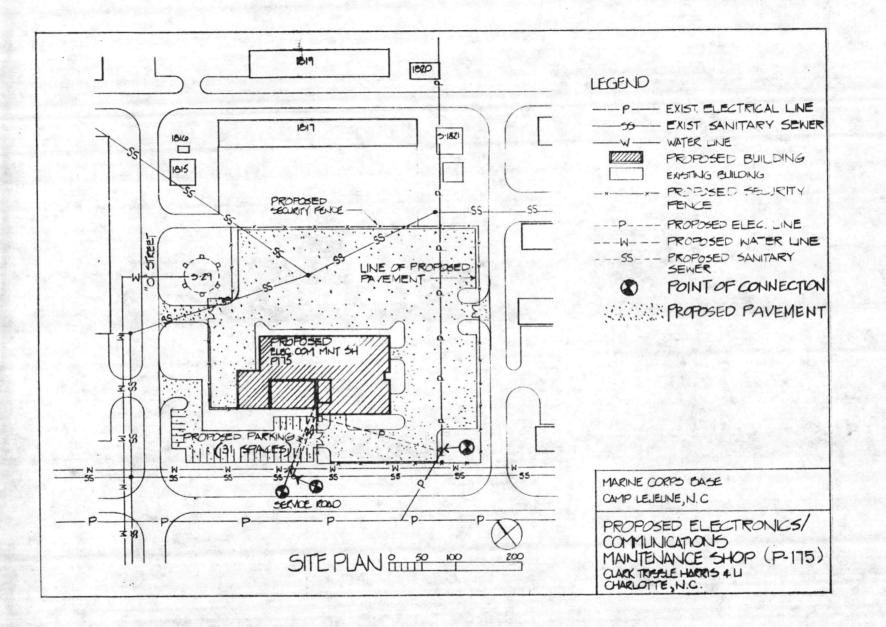


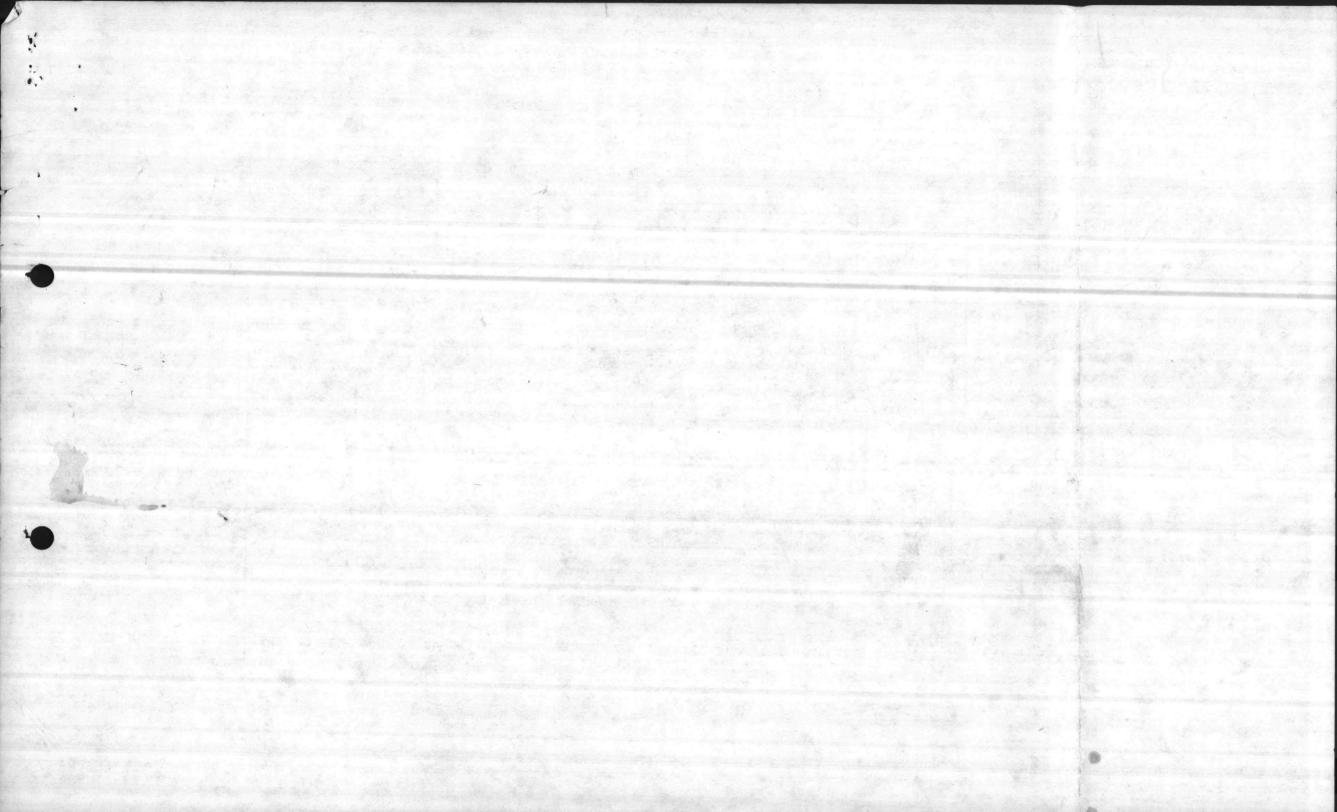
(FAC 11010/13 (Rev. 6-79) ALLATION MARINE CORPS BASE, CAMP LEJEUNE, NORTH CARO	LINA ELEC	TITLE CTRONICS/COMM	UNICATI	ONS MAINT.	SHOP P.	· 17	75 DATE	FY PROGRAM: 82
	1222	AGE/GF		PLANS AND SPECIFI			CONSTR	DESIGN PROGRESS INFO PROVIDED CONGRESS
		NAME AND LOCATION	ARCHIT	TRIBBLE HA TECTS, P.A. DTTE, NORTH	CAROLINA	A II	AWARD DATE (Est) JAN 82 MONTHS 14	START DATE:
		DATES	AWARD JAN 80	35% COMPLETION OCT 80	100% COMPLET MAY 81		BOD MAR 83	
	C. SALES		COMPAR	ATIVE COST DATA	Sales all	I	ENGI	NEERING DATA
		нок	L AREA FA	CTOR	UNIT COST	INCRE		ST PROJECTION DATA CTION DATES (From - To)
		UNIT COST FOR	HIS PROJECT O	N DD 1391		INCO		SOURCE
		DOD COST REVIE	W GUIDE IADJU	STEDI			De De	300///2
NATTH GRANTNA		OTHER PROJECT				TECH DD 1	INICAL PROBLEMS. ET	DESIGN CONSIDERATIONS. C. OTHER THAN SHOWN ON
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INITIALS

CODE







ASSISTANT CHIEF OF STAFF, FACILITIES HEADQUARTERS, MARINE CORPS BASE

DATE 11-25-80

TO:

BASE MAINT O

DIR, QUARTERS & HOUSING DIR, BOQ/BSQ BASE FIRE CHIEF

COMM-ELECT O

MOTOR TRANSPORT O

ATTN:

1. Attached is forwarded for info/action.

FILE 7-175

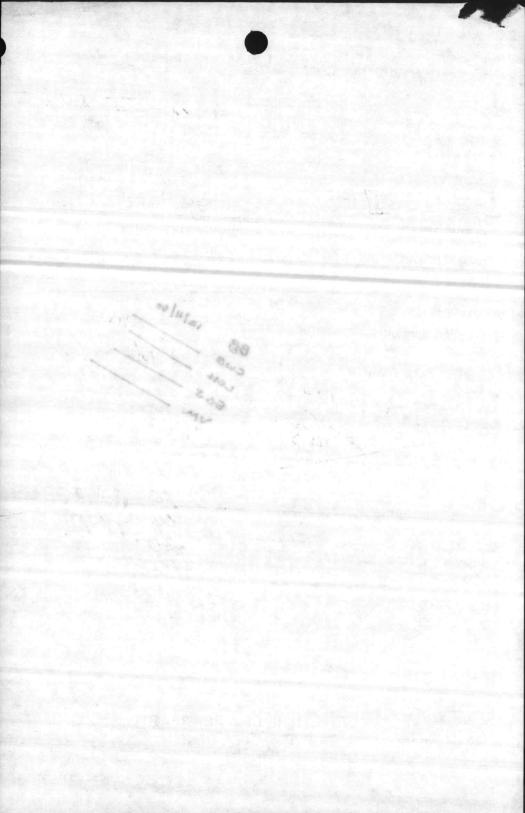
2. Please initial, or comment, and return all papers to this office.

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3. Your file copy

insta.

"LET'S THINK OF A FEW REASONS WHY IT CAN BE DONE"



LFF-1-AN:apm 2 0 NOV 1980

From: Commandant of the Marine Corps To: Commander, Naval Facilities Engineering Command (Code 05), 200 Stovall Street, Alexandria Virginia 22332

- Subj: FY 1982 Project Engineering Documentation (PED) for Project P-175, Electronics/Communications Maintenance Shop, Marine Corps Base, Camp Lejeune, North Carolina
- Ref: (a) COMLANTNAVFACENGCOM ltr 09A21E:MLB 11010/MARCORB Cambej of 13 Nov 1980

1. In response to the reference, the PED for Project P-175, Electronics/Communications Maintenance Shop, has been reviewed and is satisfactory to this Headquarters. The cost increase poses no threat to the project.

2. The site location was approved by CMC letter LFF-1-AJR:bab of 6 December 1979.

EDWARD O. LEROY By direction

Copy to: SCG MCB Camp Lejeune COMLANTNAVFACENGCOM (Code 09A2) reasonantente de Santra Jore o Contempor, Nevel Colligiant Cluster Contente (Coursello) (Coursello)

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7 NOV 1981

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

Subj: Supplemental Information Requested by Congress for FY-82 Military Construction Program; submittal of

Ref: (a) CMC)tr LFF-1-AN:apm of 16 Oct 1980

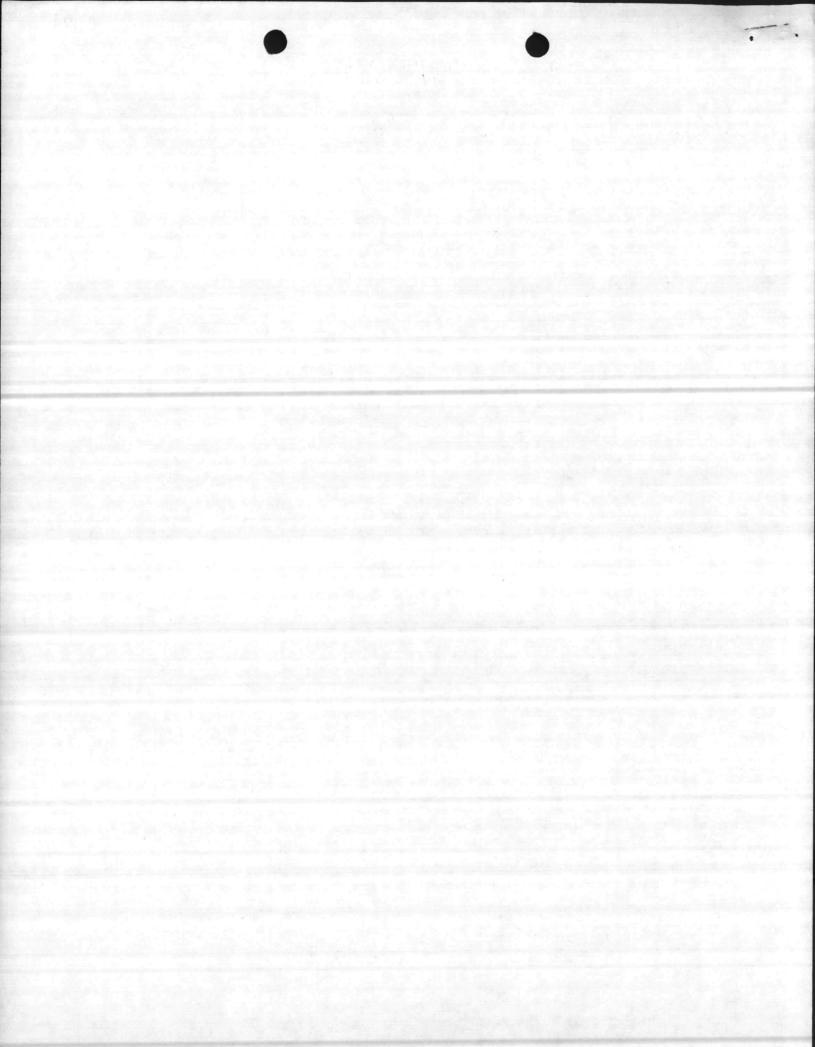
- Encl: (1) DD Form 1390, Supplemental Data for FY-82 MCON Program
 (2) DD Form 1391c, Supplemental Data for FY-82 MCON Project P-526, Combat Vehicle Maintenance Shop, w/work sheets
 - (3) DD Form 1391c, Supplemental Data for FY-S2 MCON Project P-175, Communications/Electronics Maintenance Shop, w/work sheets
 - (4) DD Form 1391c, Supplemental Data for FY-82 MCON Project P-414, Unaccompanied Enlisted Personnel Housing, w/work sheets
 - (5) DD Form 1391c, Supplemental Data for FY-82 MCON Project P-697, Modernize Enlisted Dining Facilities B8-103, 1209, M-424, & 508, w/work sheets

1. Reference (a) provided guidance for submission of supplemental information for our FY-82 Military Construction Program, as requested by Congress. Accordingly, enclosures (1) through (5) are hereby forwarded for your continuing action.

R. P. MILLICE, Jr. O Ry direction

Blind copy tc: (w/encis) AC/S, Fac

Reduce Par Planning Brendy



DD RM 1390 SUPPLEMENTAL DATA FY-82 MILITARY CONSTRUCTION PROGRAM

Navy COMPONENT

MCB Camp Lejeune NC INSTALLATION/LOCATION

Marine Corps COMMAND

P-175

(\$000)

***NOTE**

A. ESTIMATED COST OF BACKLOG REAL PROPERTY MAINTENANCE (BMAR):

Permanent Facilities: Temporary Facilities:

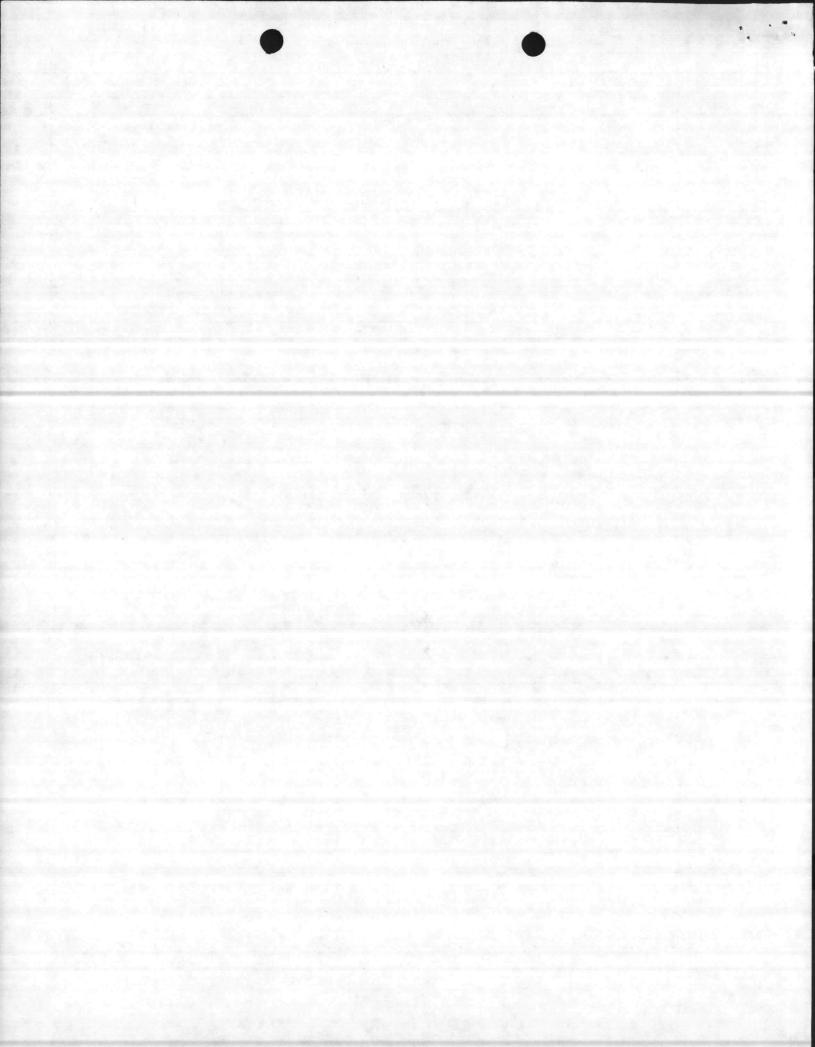
B. SIMILAR UNUSED SPACE:

Quantity/Unit Real Property Categories: of Measure 214-XX, COMBAT VEHICLE MAINTENANCE SHOP **0 SF 217-XX, COMMUNICATIONS/ELECTRONICS MAINTENANCE SHOP ***0. SF 721-XX. UNACCOMPANIED ENLISTED PERSONNEL HOUSING ****52.291 SF 722-XX, DINING FACILITY *****0 SF OUTSTANDING POLLUTION AND SAFETY (OSHA) DEFICIENCIES (\$000): С. 1. Air Pollution *NOTE 2. Water Pollution ***NOTE** 3. Safety and Occupational Health *NOTE

NOTES:

*CMC (Code LFF) will complete.

- **Combat Ven Maint Shops (reference P-526) located in substandard WW-II
 Butler-type metal buildings constructed in 1952 which do not meet the
 standards used today and cannot be economically rehabilitated.
- ***Comm/Elec Maint Shops (reference P-175) are located in makeshift temporary metal and semi-permanent wood/concrete block facilities that were constructed for warehousing.
- ****The vacant UEPH facilities were constructed in 1943 as emergency multiuse facilities (Admin, Storage, and UEPH). Construction consists of concrete foundation, concrete slab, masonry walls, wood trusses, and asphalt shingles; minimum electric power and detached toilet facilities.
- ****The overall appearance, condition, and layout of the existing Dining
 Facilities being modernized (reference P-697) are inefficient, underutilized, and do not permit a favorable environment while personnel are
 dining.



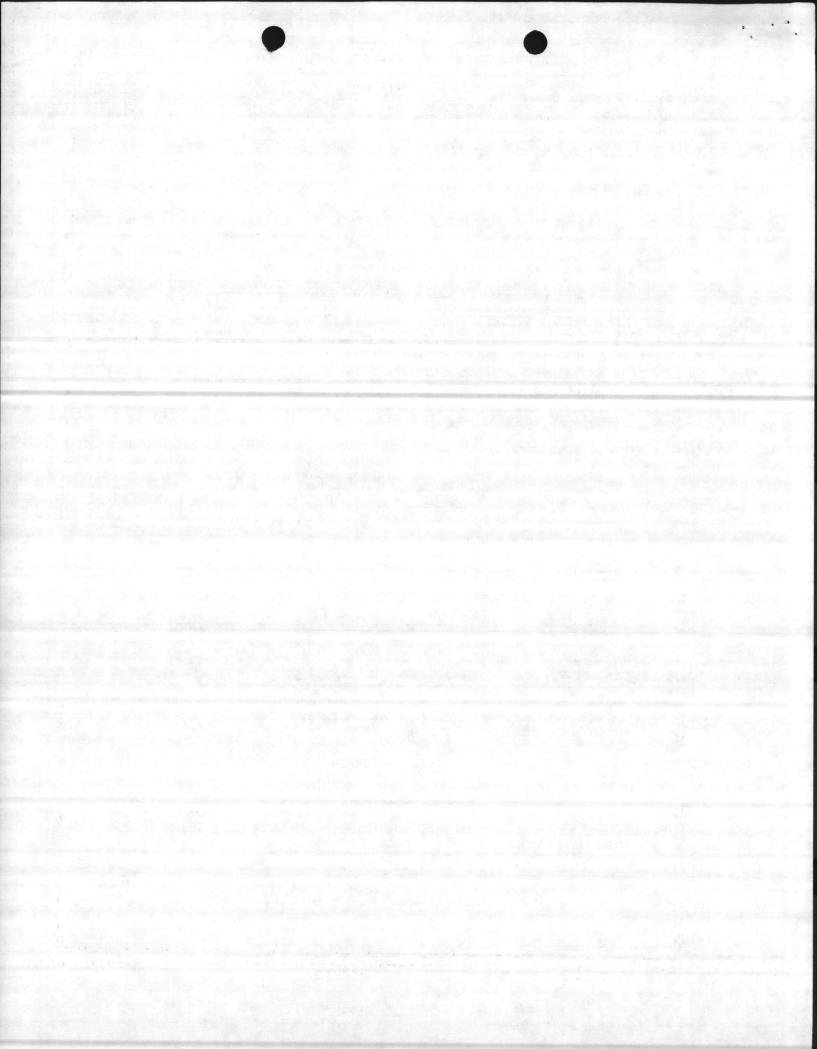
	avy	FY 19 82 MILITARY CONSTRUCTION PROJE	CT DATA 5 NOV 1980
		AND LOCATION 5 BASE, CAMP LEJEUNE, NORTH CAROLINA 2854	2
	CT TITLE	DNS/ELECTRONICS MAINTENANCE SHOP	5. PROJECT NUMBER P-175
er de		SUPPLEMENTAL DATA	
A. E	STIMAT	ED ANNUAL COST TO OPERATE THE PROPOSED FA	
		OF ADDITIONAL PERSONNEL NECESSARY TO CARR CTION OF THE PROPOSED FACILITY	•
		ED LIFE-CYCLE COST TO OPERATE AND MAINTAI D FACILITY	N THE
		ED LIFE-CYCLE COST TO OPERATE AND MAINTAI G FACILITY IF NEW FACILITY IS A REPLACEME	N THE
E. D	ESIGN	DATA (Estimated): **NOTE	(\$000)
1	. STA	TUS	
	a. b. c. d.	•	······
2	. BAS	IS	
		Standard or Definitive Design: Yes Where Design was Nost Recently Used:	No
3	. cos	T (Total) = $c = a+b$ and $d+e$	(<u>\$000</u>)
	a. b. c. d. e.	Production of Plans and Specifications All Other Design Costs Total Contract In-House	
4	. CON	STRUCTION START	(month and year)
		NT ASSOCIATED WITH THIS PROJECT WHICH WIL HER APPROPRIATIONS: *NCTE Fiscal	L BE PROVIDED
	uipmen nclatu	t Procuring Approp	riated Cost uested (\$000)
		ON PAGE 2)	

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3-TP

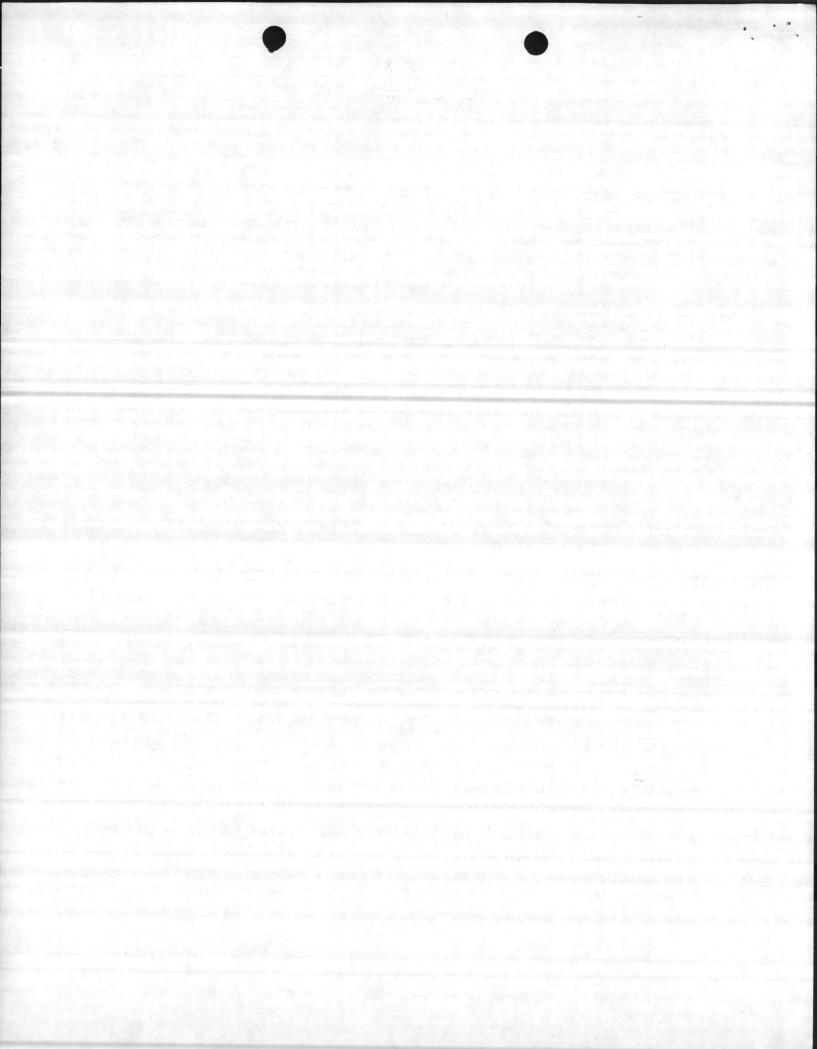


the second second second		2. DATE
1. COMPONENT Navy	FY 19_82_MILITARY CONSTRUCTION PROJECT DATA	5 NOV 1980
3. INSTALLATION	S BASE, CAMP LEJEUNE, NORTH CAROLINA 28542 .	ECT NUMBER
4. PROJECT TITLE		P-175

NOTES:

*Maintenance functions are currently supported in metal (Butler-type) buildings and semi-permanent wood/concrete block facilities that were constructed for warehousing. They are uninsulated, poorly heated, and have inadequate electrical service. There is no practical way that these facilities can be upgraded in order to perform a meaningful life-cycle comparison with the proposed facility.

**CMC (Code LFF) will complete.



WORK SHEETS

P-175, COMMUNICATIONS/ELECTRONICS MAINTENANCE SHOP

A. Annual Maintenance Cost:

Inventory of Like Facilities = 914,462 SF

Cost/Yr of Existing Facilities - \$236,859

 $Cost/SF = \frac{$236,859}{914,462} = $.26/SF$

Proposed Facility = 24,500 SF

24,500 SF X \$.26 = \$6,370

SOURCE: Base Historical Data

- B. Utility Cests:
 - 1. Electricity: 200,230 KWH/YR X .0353/KWH = \$7,068
 - 2. Steam: 1,728,000 LBS/YR X .01007/LB = \$17,401
 - 3. Water & Sewage: 35 gal per pn per day:

(a) Annual Water Cost: 331 pn X 35 gal/day X \$.6438/1000 gal

X 365 days = \$2,722

(b) Annual Sewage Cost: 331 pn.X 35 gal/day X \$.4673/1000 gal

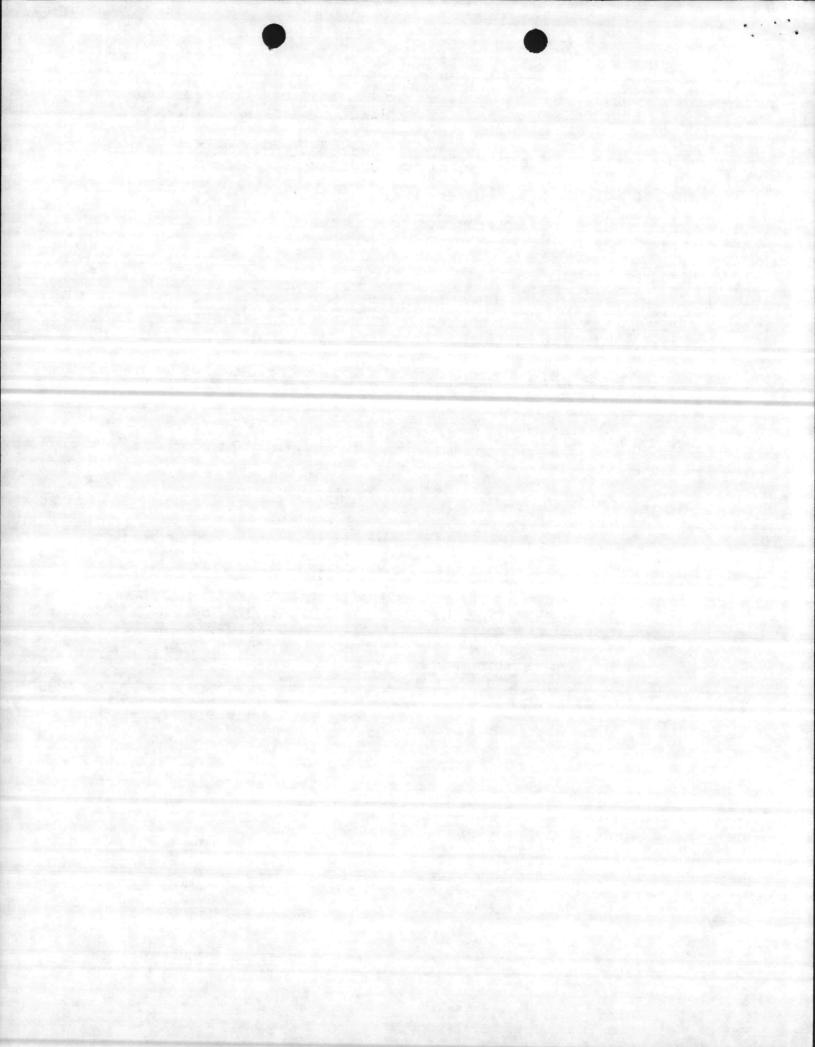
X 365 days = \$1,976

4. Summary of Utility Costs (Annual):

Electricity:	\$ 7,068
Steam:	\$17,401
Water & Sewage:	\$ 4,698
TOTAL:	\$29,167

C. Other Engineering Support:

Trash Disposal:	\$ 200
Pest Control:	\$ 75
Misc. Services:	\$ 100
TOTAL	\$ 375



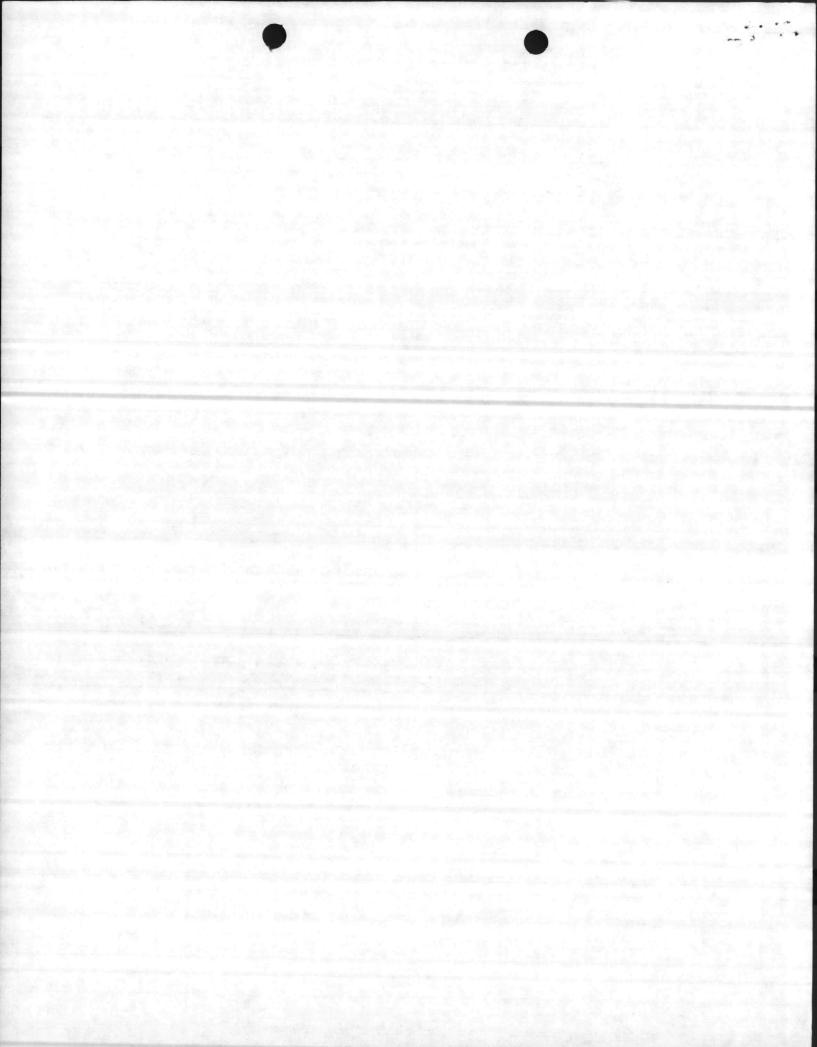
WORK SHEETS

P-175, COMMUNICATIONS/ELECTRONICS MAINTENANCE SHOP

D.	Summary of Costs:	(escalated to FY-82	
	Maintenance & Repair:	\$ 6,370	\$ 7,415
	Utilities:	\$29,167	\$33,950
	Other Engr. Support:	<u>\$ 375</u>	<u>\$ 437</u>
	TOTAL:	\$35,912	\$41,802

Escalation Factor for Above:

80-81 = 8.3% 81-82 = 7.5% EF = 1.083 X 1.075 - 1.164

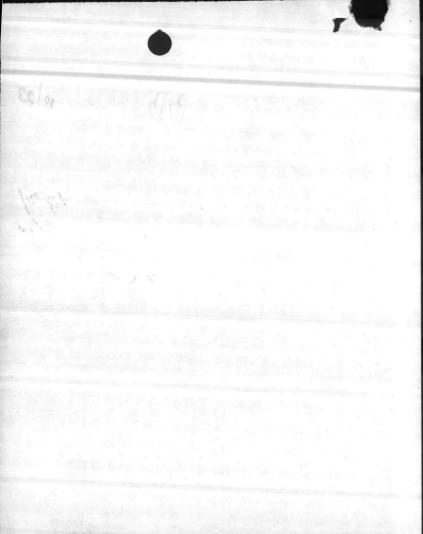


PLANNING BRANCH INTER ROUTE SLIP

BRILEY
W. BARNES
G. JONES
L. HONEYCUTT
V. MARSHBURN
COMMENTS:

/date: 10 23 /date: /date: 10 /dates /date: lo

RETURN TO BARBARA FOR FILING/ACTION



October 20, 1980

The Department of the Navy Atlantic Division Naval Facilities Engineering Command Norfolk, Virginia 33511

09821:MLB Attention:

Reference: Contract No. N62470-78-B-3902 FY-82, MCON Project P-175, Electronics Communications Maintenance Shop Marine Corps Base, Camp LeJeune, N. C.

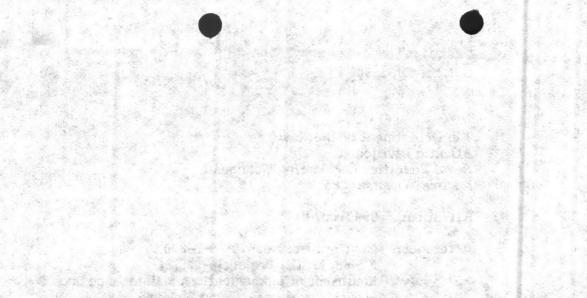
Gentlemen:

Today, we received a request to make changes in the Project Engineering Documentation for the above referenced project, submitted to your office on July 1, 1980. The changes were clarified in a telephone conversation with your office. The following items, as discussed with the Project Manager, Mr. Bryant, are the changes to be made in the P.E.D.:

- A. Remove the mezzanine storage areas above the administrative offices as shown on the military construction project witness sketch which we furnished.
- B. Revise the budget summary sheet to reflect any savings incurred by this change.
- The square footage shown as 24,818 square feet on the C. P.E.D. was acceptable.

These changes represent a correction to the aforementioned definitive drawings supplied to our office for use in planning this project. That definitive drawing, NAVFAC number 1293358, showed ship ladders to mezzanine storage areas above the administrative and supply offices; however, the square footage for these storage spaces was not included in the overall project size.

Changes will be effected immediately and P.E.D. originals returned to your office ASAP.



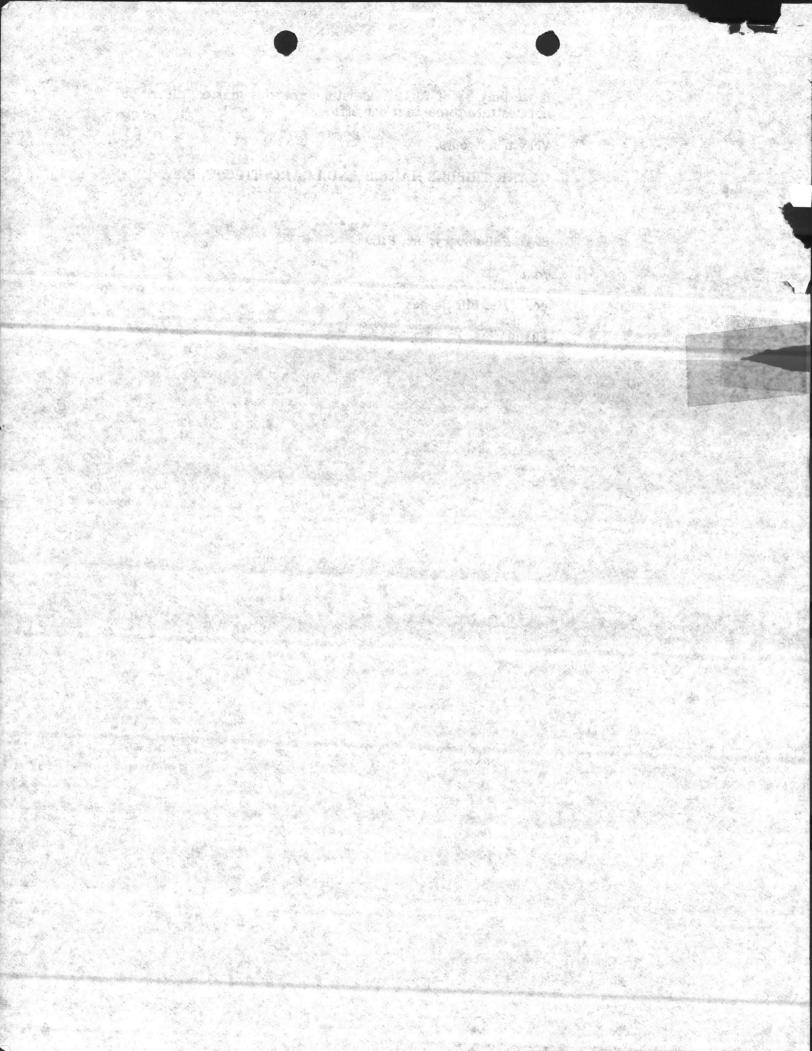
If we may be of further assistance on this matter, please do not hesitate to contact our office.

Very truly yours,

CLARK TRIBBLE HARRIS AND LI ARCHITECTS, P.A.

S. D. Falkenbury, Jr., P.E.

/dal oc: Mr. Bill Barnes



PHO:408:YM:bb 11000

P-17.

2 4 SEP 1980

4:08

SACEN -

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Commanding General From:

Commandant of the Marine Corps (LFF-1) To:

Economic Analyses on FY-82 MCON Projects for Camp Lejeune, MC; Subj: submission of

Raf:

(a) Phonecon fe Mr. A. E. Samuel, HOMC (LFF-1) to Mr. A. C. Austin, MCB, CLNC (office of AC/S, Fac) of 31 Jul 1980

- (b) CMC 1tr LFF-1-LAM-tjw 11000/CLNC of 29 Feb 1980
- (c) NAVFAC P-442

(1) Economic Analysis on Project P-175, Electronics/Communi-Encl: cations Maintenance Shop

- (2) Economic Analysis on Project P-414, Unaccompanied Enlisted Personnel Housing
- (3) Economic Analysis on Project P-525, Combat Vehicle Maintenance Shop
- (4) Economic Analysis on Project P-697, Dining Facility Modernization

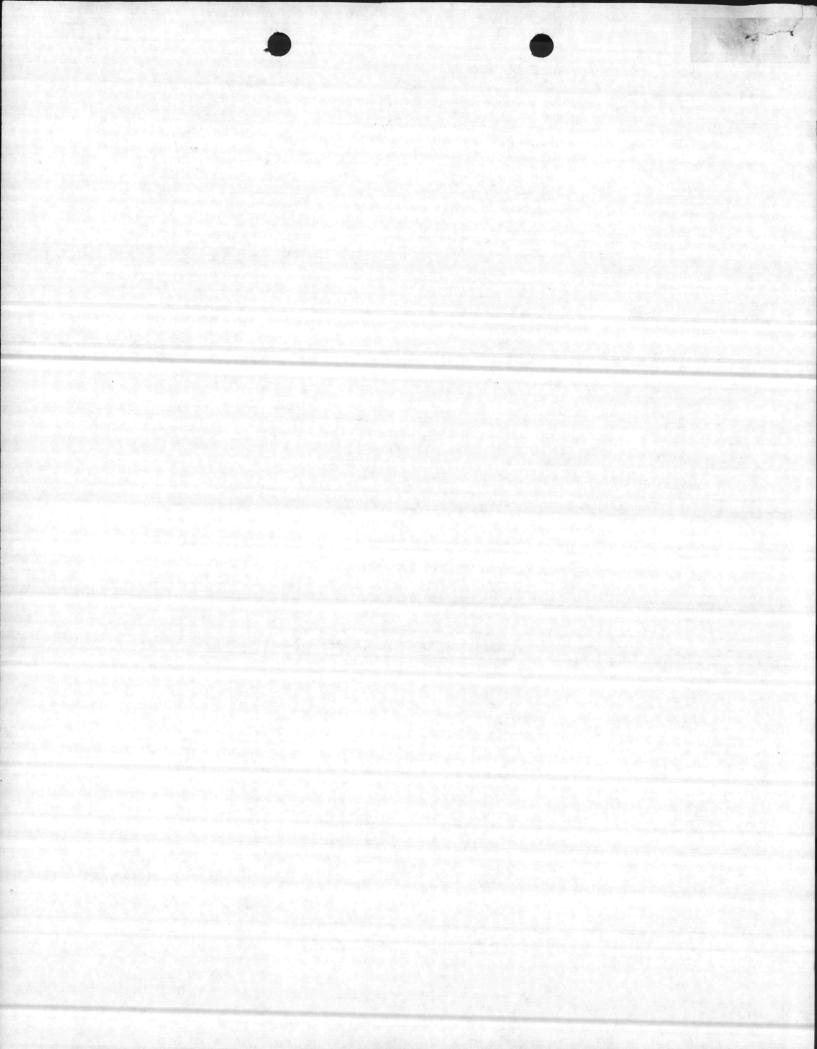
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1. In accordance with reference (a) request and the guidelines contained in references (b) and (c), Economic Analyses on FY-82 MCON projects are herapy submitted as enclosures (1) through (4).

> K. P. MILLICE, Jr. By direction

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

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

Aug 1980

MEMORANDUM

From: Assistant Chief of Staff, Facilities To: Public Works Officer

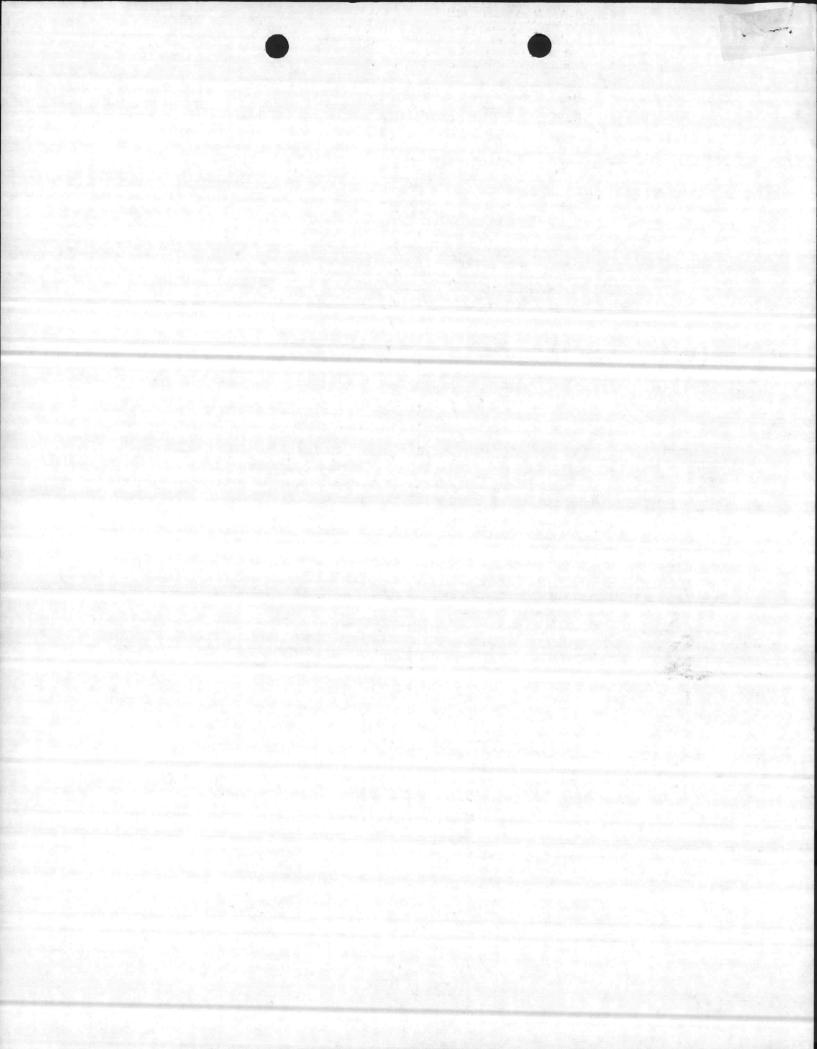
Subj: Economic Analysis

- Ref: (a) TelCon fr Mr. A. E. Samuel, HQMC (Code LFF-1) to A. C. Austin, office of AC/S, Fac
 - (b) CMC ltr LFF-1:LAW:tjw 11000/CamLej of 29 Feb 1980
 - (c) NAVFAC INST 11010.32E
 - (d) NAVFAC P-442

1. During reference (a), Mr. Samuel explained that the review process for FY-1982 Military Construction projects will begin in October 1980, and requested that economic analyses for those projects for Camp Lejeune listed on enclosure (3) to reference (b) be provided.

2. Accordingly, it is requested that correspondence be prepared for my signature by 20 September 1980. References (c) and (d) provide instructions and guidance for economic analyses. A new economic analysis for P-414 is not required; a statement and reference to the previously accomplished (A&E) analysis is sufficient.

K. P. Millie Jr.



Themasey Societion CMC APPROVED DUG 1-AUS-BO MCB CAMP LEJEUNE. MCON PROGRAM (FIXED YEARS) COST \$(000) - Quesnessa FACILITY/ORG 00 P-Nº FY-81 \$7,700 TANK MAINT.FAC. P-536 (5) \$17,000 UEPH (2D. AREA) 5-BOQS P-611 24,700 FY-82 2 400 NAVGmp E/C-MNT.FAC. (HQ.BN.) P-175 2600 Economic \$2,000-VE MAT FAC (2D MAR) -528 Renter 500 (4) \$10,000 Ed Samuel Colled UEPH-(2D.AREA) P-414 \$3,800 24 July No Piere gene DIN. FAC.MOD P=697 Testigi @0930 25,300 lele 80 021 Testiminy Regenced for 060 1 Nov 81 Terleing



ECONOMIC ANALYSIS FOR MILITARY CONSTRUCTION PROJECT P-175 ELECTRONICS/COMMUNICATIONS MAINTENANCE SHOP CAMP LEJEUNE, NORTH CAROLINA

I. BACKGROUND

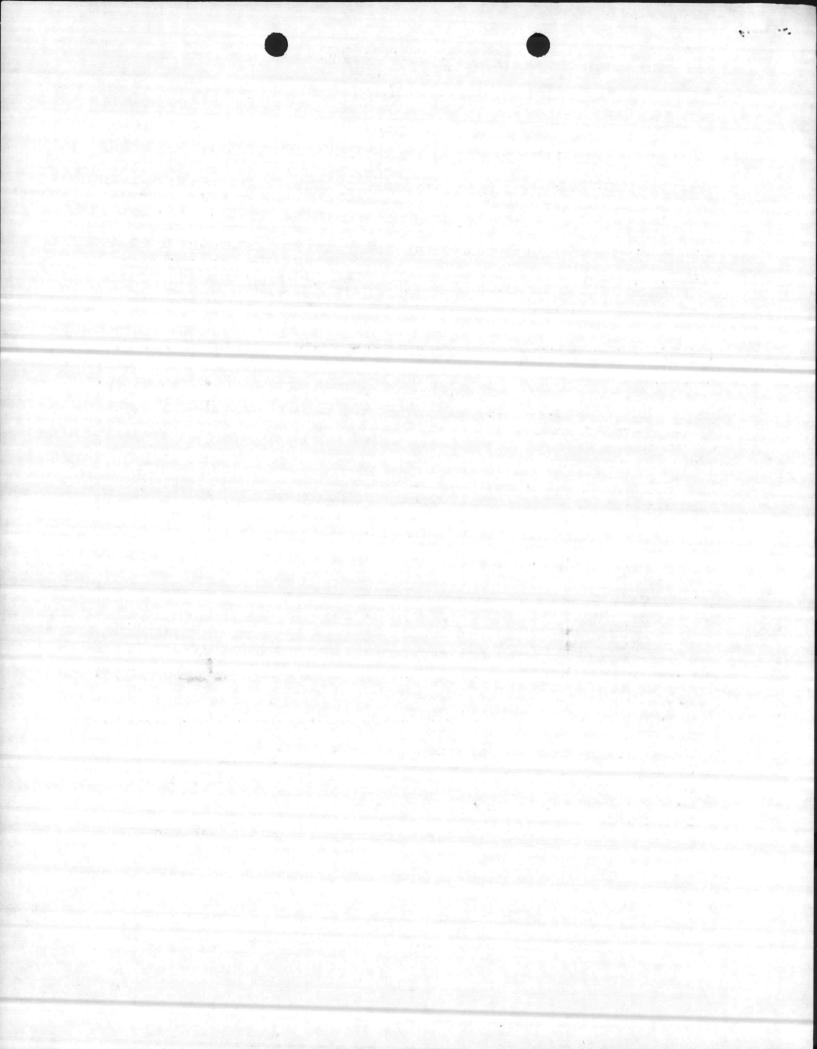
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The analysis investigates the economy of providing an Electronics/ Communications Maintenance Shop for Headquarters Battalion, 2d Marine Division. Currently, work is being accomplished in temporary WW-II Butler-type buildings and an old Dining Facility. These facilities are substandard and have never been modified for use as an Electronics/ Communications Maintenance Shop.

Analysis is based upon a comparison of annual costs for Modification of Existing Facilities (Alternative A) against Construction of a New Electronics/Communications Maintenance Shop (Alternative B).

II. PRESENT VALUE - SUMMARY

Construction of a new Electronics/Communications Maintenance Shop is economically feasible, as indicated by the attached Analysis. The new shop will be located in the 1800 Area, in compliance with the current Camp Lejeune Master Plan.



Submitting Department of the Navy Component: Marine Corps 1.

- Date of Submission: 23 Sep 1980 2.
- Project Title: P-175, Electronics/Communications Maintenance Shop 3.
- Description of Project Objective: Provide adequate facility. 4.

Alternative: 5. Α 6. Economic Life: 15 years

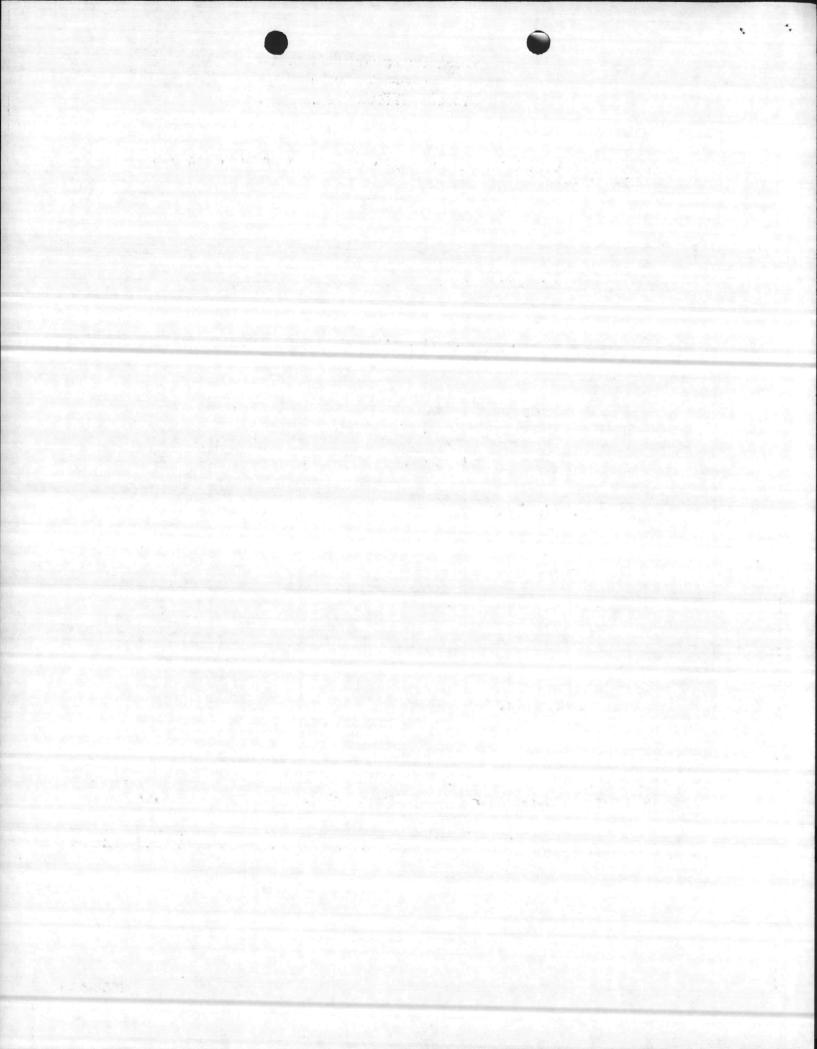
7.	a. Non-Recurring		b. Recurring	с.	d.	e. Discounted
Project Year	R&D	Investment	Operations	Annual Cost	Discount Factor	Annual Cost
1 2-16		2,000,000	0 26,868	2,000,000 26,868	.954 7.255	1,908,000 194,927
	-					
9. TOTALS					7.255	2,102,927

10a. Total Project Cost (discounted) 2,102,927 10b. Uniform Annual Cost (without terminal value) 11. Less Terminal Value (discounted) 12a. Net Total Project Cost (discounted) 12b. Uniform Annual Cost (with terminal value)

289.359 N/A 2,102,927 289,859

1.1

C-2



13. Source/Derivation of Cost Estimates: (Use as much space as required)

a. Non-Recurring Costs:

1.) Research & Development:

2.) Investment:

- -

0

NAVFAC P-448, Military Construction Cost Data, and Mean's Building Construction Cost Data, 1980, were used in determining cost estimate.

b. Recurring Cost(s):

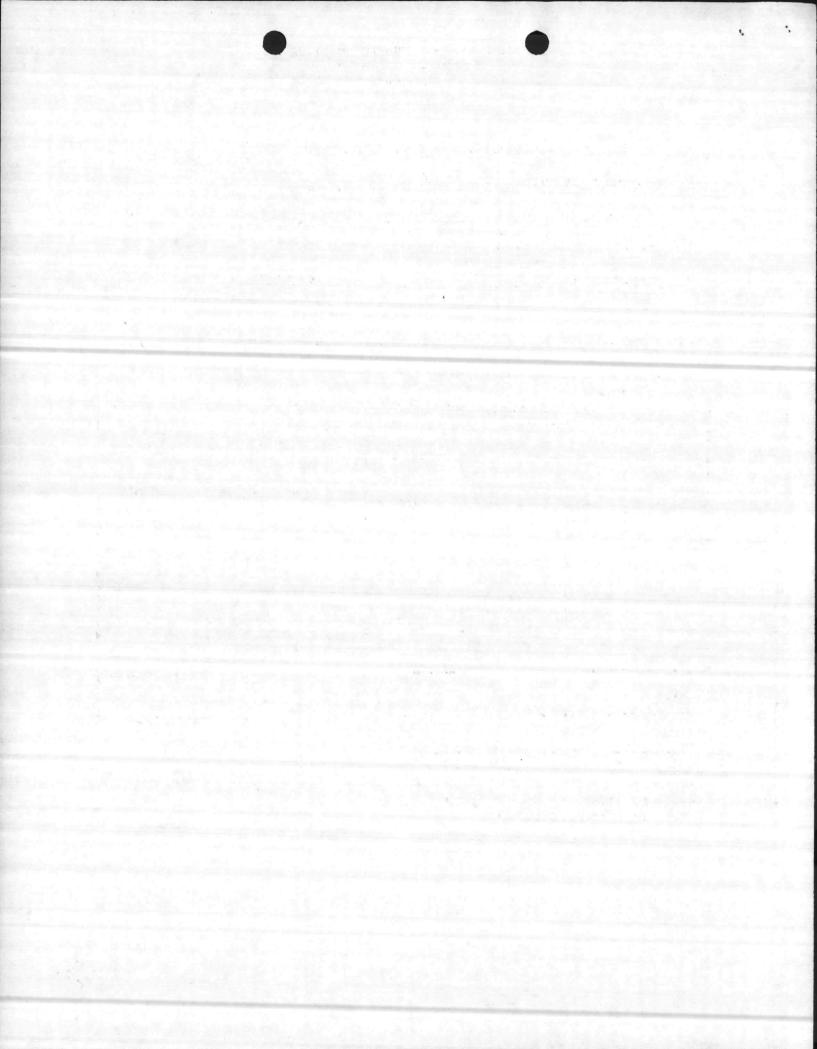
See Attachment "A"

c. Net Terminal Value:

d. Other Considerations:

14.	Name & Title of	Principal	Action Officer	Date
٧.	PODBIEĽSKI, CDR,	CEC, USN	Public Works Officer	23 Sep 1980

C-3



1. Submitting Department of the Navy Component: Marine Corps

- 2. Date of Submission: 23 Sep 1980
- 3. Project Title: P-175, Electronics/Communications Maintenance Shop
- 4. Description of Project Objective: Provide adequate facilities.

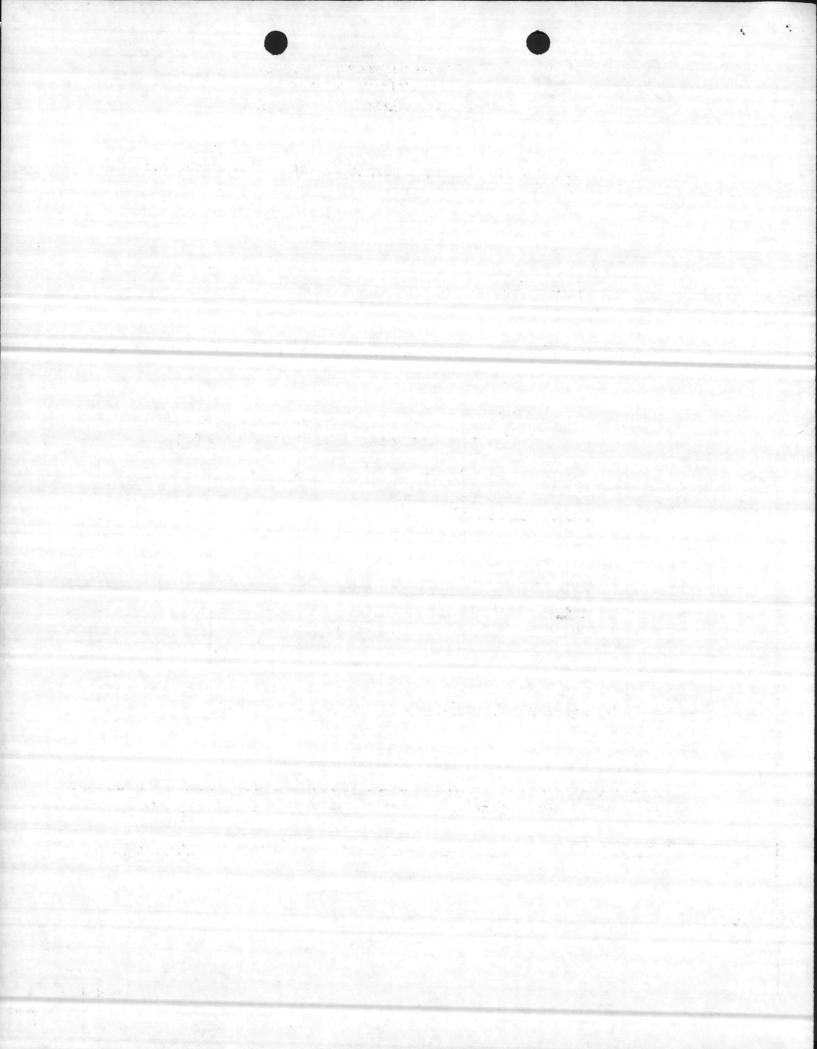
5. Alternative: B 6. Economic Life: 25 years

7. Project	a. Non-Recurring		b. Recurring	c.	d.	e. Discounted
Year	R&D	Investment	Operations	Annual. Cost	Discount Factor	Annual Cost
1 2-26	0	1,900,000	0 26,868	1,900,000 26,868	.954 8.658	1,812,600 232,623
9. TOTALS					8.658	2,045,223

10a. Total Project Cost (discounted)2.10b. Uniform Annual Cost (without terminal value)11. Less Terminal Value (discounted)12a. Net Total Project Cost (discounted)12b. Uniform Annual Cost (with terminal value)

2,045,223 236.223 N/A 2.045.223 236,223

C-2



13. Source/Derivation of Cost Estimates: (Use as much space as required)

a. Non-Recurring Costs:

1.) Research & Development:

2.) Investment:

Military Construction Project P-175; \$1,900,000 Source: DD Form 1391 for Project P-175.

b. Recurring Cost(s):

6

See Attachment A

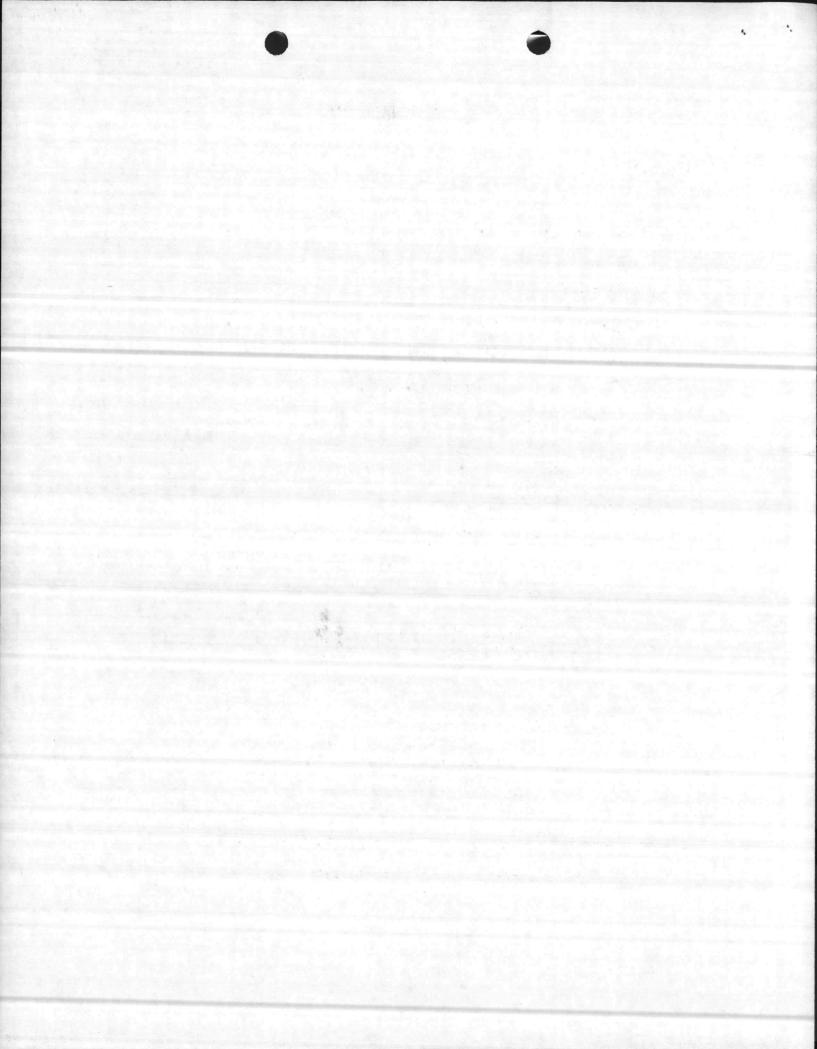
c. Net Terminal Value:

d. Other Considerations:

14. Nam	e & Title o	f Principal	Action Officer	Date
V. PODB	IELSKI, CDR	, CEC, USN,	Public Works Officer	23 Sep 1980

C-3

ENGL (1)



ATTACHMENT "A"

RECURRING COSTS:

Maintenance: \$2400/yr

Source: Base Historical Data

Utilities:

Steam Consumption

Heating #/hr = .96#/1000 cf = (.96#) (2600 sf) (16 ft)/1000 cf

*

= 400#/hr

= 1728000#/heating season

Heating Costs = (1728000#) (\$10.07/1000#) = \$17400

Source: Utilities Conservation Program Survey Manual and NAVFAC P-272, Part 1, Volume 2.

Electrical

Lighting Load: (26000 sf) (3 w/sf) = 78 kw

Air Conditioning: (13000 sf)/(400 sf/ton) (1.3 kw/ton) = 9.75 kw

Demand:

Lighting @ 100% =	78.0 W
A/C @ 65% =	6.4 KW
Equip @ 50% =	12.5 kw

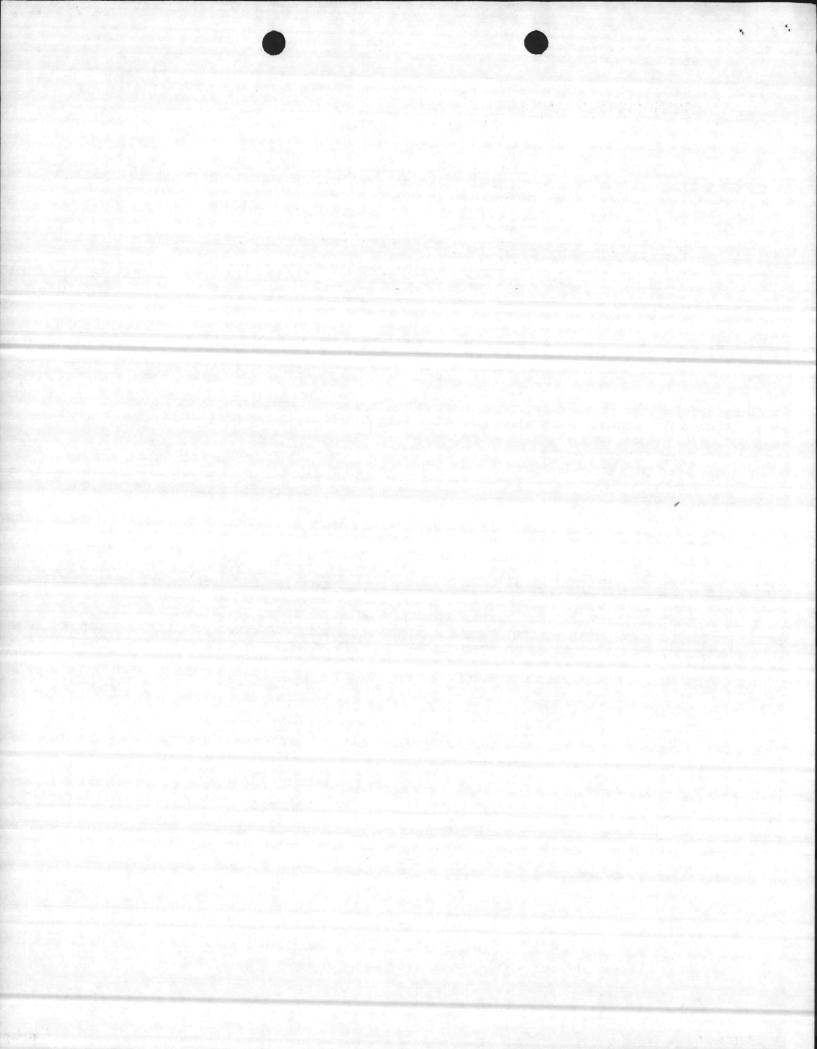
TOTAL: 96.9 kw

Year Consumption:

78 kw x 2200 hrs = 173,800 kwh 6.4 kw x 1200 hrs = 7,680 kwh 12.5 kw x 1500 hrs = 18,750 kwh

TOTAL: 200,230 kwh

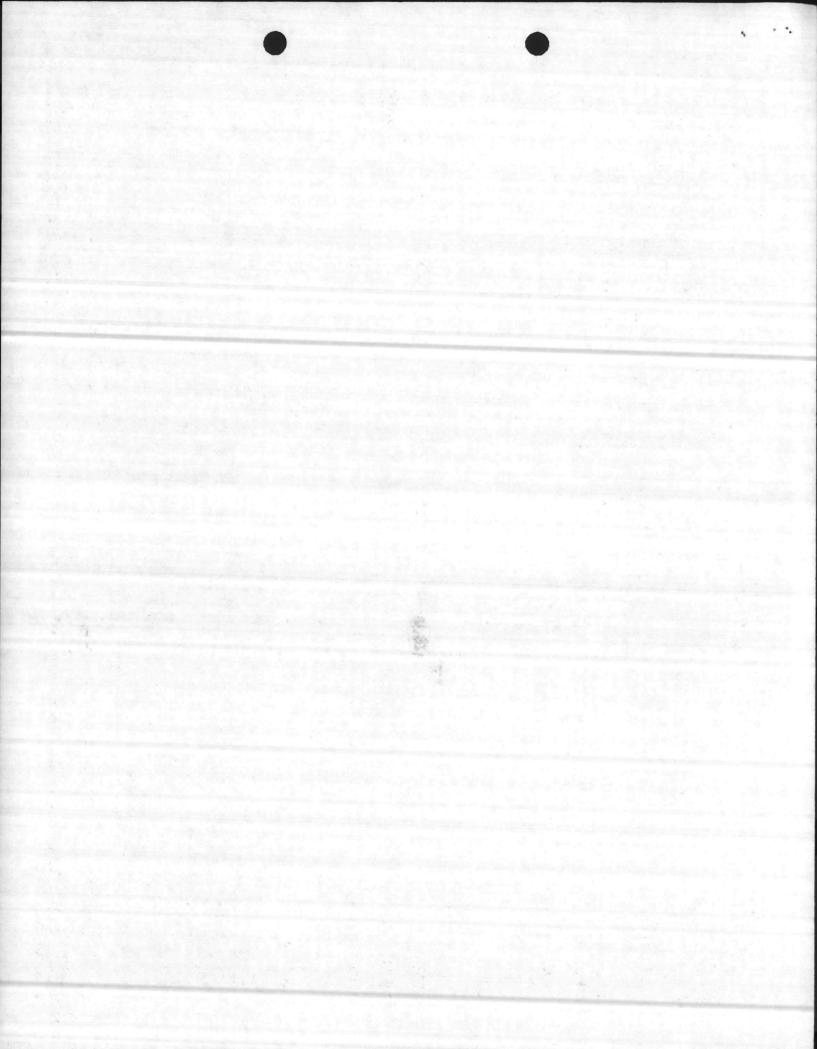
Electrical Costs = (200270 kwh) (\$.0353/kwh) = \$7068/yr Source: Electrical Design Manual, Volume 4.



TOTAL RECURRING COSTS:

Maintenance:	\$2,400
Utilities:	\$24,468
TOTAL:	\$26,868/yr

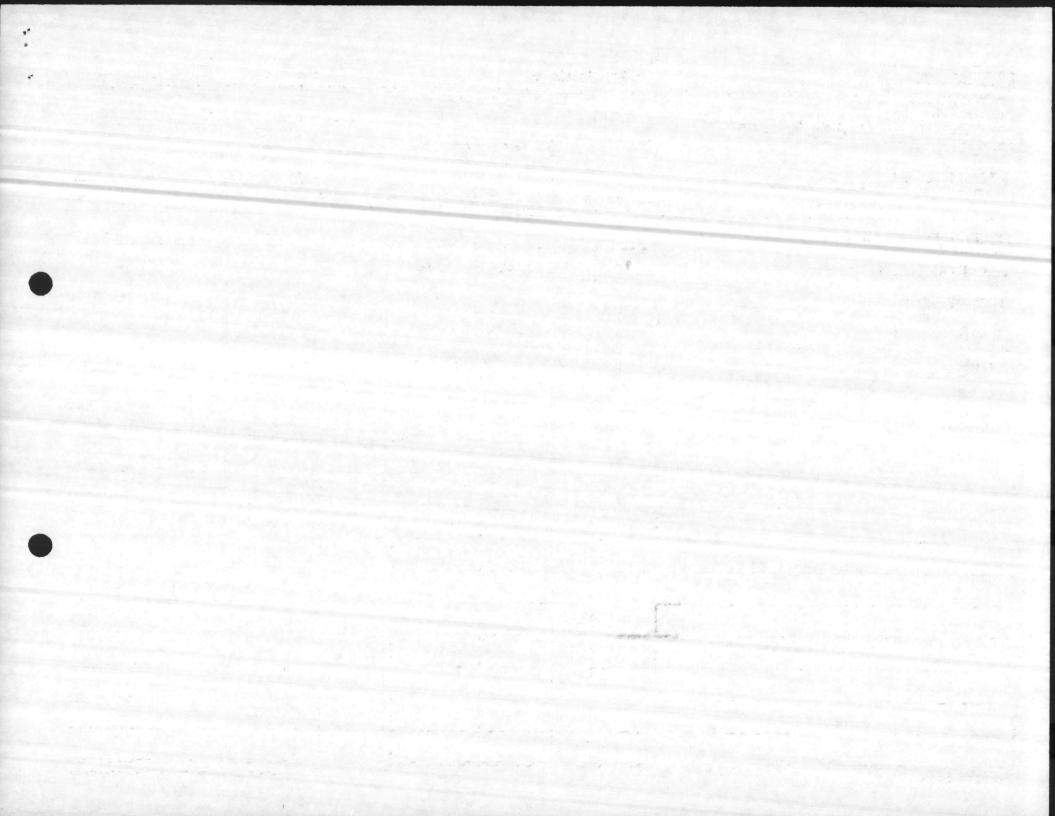
<u>Note</u>: For comparison purposes, recurring costs were considered to be the same for both Alternatives.



NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST E	MATE DATE PREPARED 19 SEP 1980					1 OF :		
ACTIVITY AND LOCATION MARINE CORPS BASE	CONSTRUCTION	· IDENTIFICATION NUMBER P-175							
CAMP LEJEUNE, NORTH CAROLINA	ESTIMATED BY		a start	a Sugar		CODE NUMBER			
PROJECT TITLE				ourn			JOB ORDER	217-10	
ALTERNATIVE "A"									
	QUANTI		the second s	TAL COST	LAB	OR COST TOTAL	ENGINEERING ESTIMAT		
ITEM DESCRIPTION	NUMBER	UNIT			1000			235,81	
DEMOLITION	22,459	SF	3.65	81,975	6.85	153,844	10.50		
STRUCTURAL REINFORCEMENT	1	LS	-	25,000		30,000	-	55,00	
FOUNDATION	25	CY	65	1,625	150	3,750	-	5,37	
SLAB .	22	CY	65	1,430	150	3,300	-	4,73	
STRUCTURAL FRAMING	1	LS	- 10	3,000		2,000	-	5,00	
INTERIOR WALLS	18,000	SF	1.25	22,500	2.75	49,500	4.00	72,00	
INTERIOR FINISH	48,248	SF	2.50	120,620	1.75	84,434	4.25	205,05	
WINDOWS & DOORS	1	LS	-	35,000	- '	20,000	-	55,00	
SPECIALTIES (VAULT)	1	LS	-	75,000	-	8,000	-	83,00	
PLUMBING	1	LS	-	50,000		40,000	-	90,00	
HVAC	1	LS	-	50,000		25,000	-	75,00	
EXHAUST SYSTEM	1	LS	-	80,000		5,000	-	85,00	
SPRINKLER SYSTEM	1	LS		10,000	-	12,000	-	22,00	
COMPRESSED AIR SYSTEM	1	LS	-	4,000	102	2,000	-	6,00	
MONITORING AND CONTROL SYSTEM	1	LS		5,000	-	3,000	-	8,00	
SPECIAL EQUIPMENT (HYDRAULICS)	2 .	EA	4,000	8,000	3,500	7,000	Acts - Ko	15,00	
ELECTRICAL SYSTEM	1	LS		80,000	_	45,000	-	125.00	

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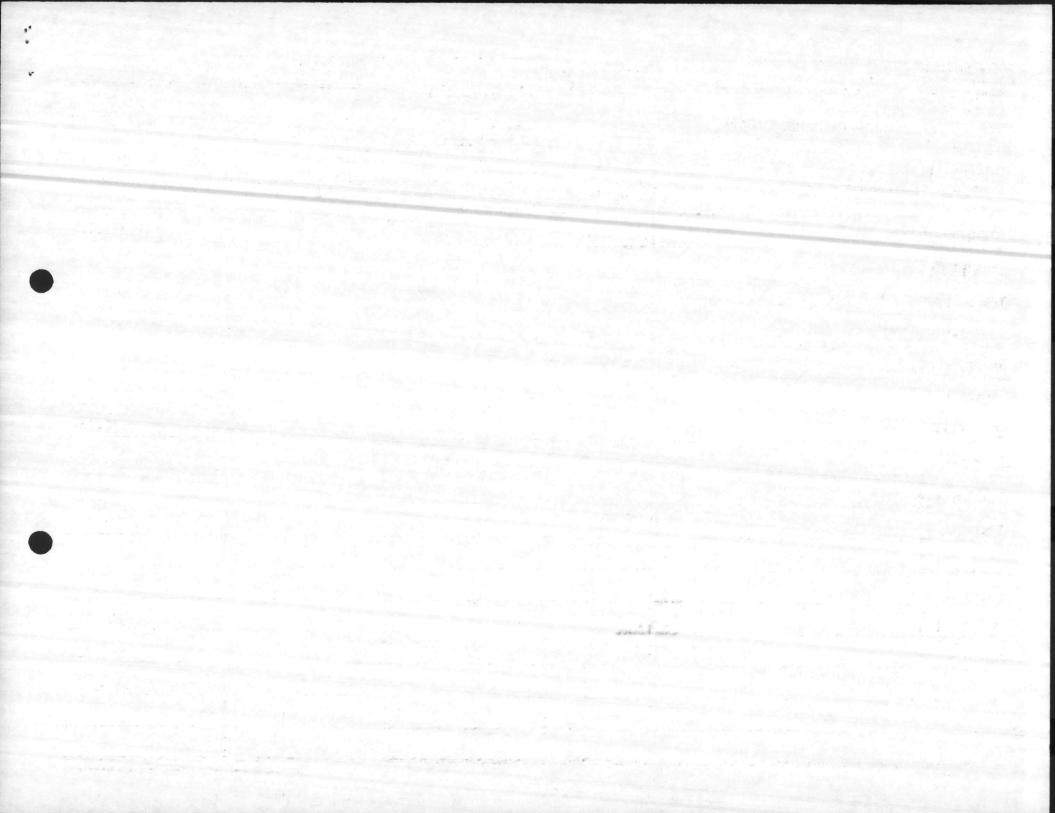
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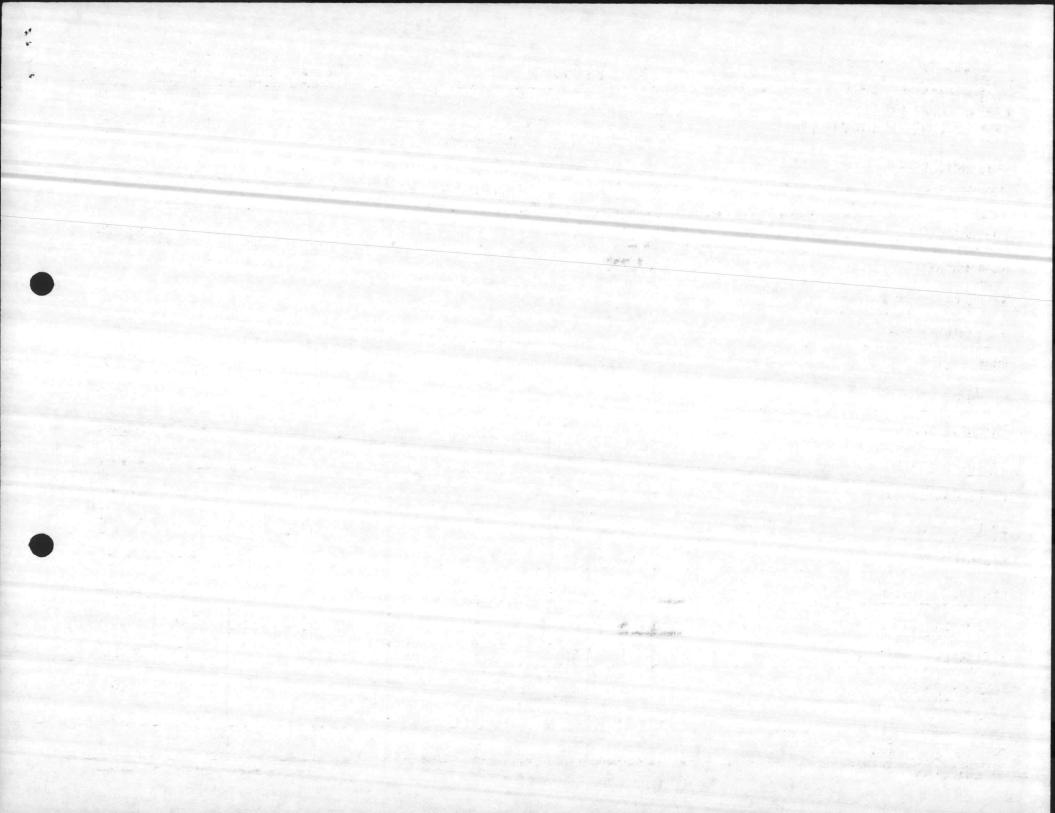
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A		ATE ·	An and a second	SEP 1980	SHEET 2 OF 3						
ACTIVITY AND LOCATION MARINE CORPS BASE				CONSTRUCTION CONTRACT NO.					IDENTIFICATION NUMBER P-175 CATEGORY CODE NUMBER		
								CATEGOR	217-10		
PROJECT TITLE				V. Marsh				JOB ORDE	R NUMBER		
ALTERNATIVE "A"					30% 100%	FINAL Oth	er (Specify)	_			
		QUANT	ITY	MATE	RIAL COST		OR COST	ENGINEERING ESTIMATE			
ITEM DESCRIPTION	N	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL		
EXTERIOR ELECTRICAL		1	LS	-	6,000	-	3,000	-	9,000		
ELECTRICAL SUBSTATION		1	EA	8,000	8,000	-	1,500	-	9,500		
ROADS, PARKING, SIDEWALK		. 1	LS	-	25,000	-	11,000	-	36,000		
SITE IMPROVEMENT		1	LS	-	16,000	and <u>a</u> terior	6,000	-	22,000		
SUBTOTAL				a la sua	708,150		515,328		1,223,478		
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NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST	STIM		CONTRACT NO	19	SEP 1980	SHEET	~	
ACTIVITY AND LOCATION MARINE CORPS BASE			CONTRACTINO.	IDENTIFICATION NUMBER					
		ESTIMATED BY					CATEGORY CODE NUMBER 217-10		
PROJECT TITLE			V. Mars				JOB ORDER		
ALTERNATIVE "A"				30% 100%		ner (Specify)			
ITEM DESCRIPTION			MATERIAL COST		LAB UNIT COST	OR COST TOTAL	ENGINEERI UNIT COST	NG ESTIMATE TOTAL	
SUBTOTAL	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			708,150		515,328		1,223,47	
OVERHEAD (15%)						y i Lak		183,52	
TAXES, INS., S.S. (12% OF LABC	R)						1.1.1.	61,83	
SUBTOTAL				- Second				1,468,83	
PROFIT (10%)					<u></u>			146,88	
SUBTOTAL								1,615,72	
BOND (1%)		1.54						16,15	
SUBTOTAL					· ·		1.00	1,631,87	
CONTINGENCY (5%)		<u> </u>						81,59	
SUBTOTAL		2.3		1.				1,713,47	
SIOH (5.5%)				and and a second second	and the second			94,24	
SUBTOTAL	and the second		1.1.1.1					1,807,71	
DESIGN COSTS			1			2		180,77	
SUBTOTAL								1,988,48	
						1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	SAY:	2,000,00	
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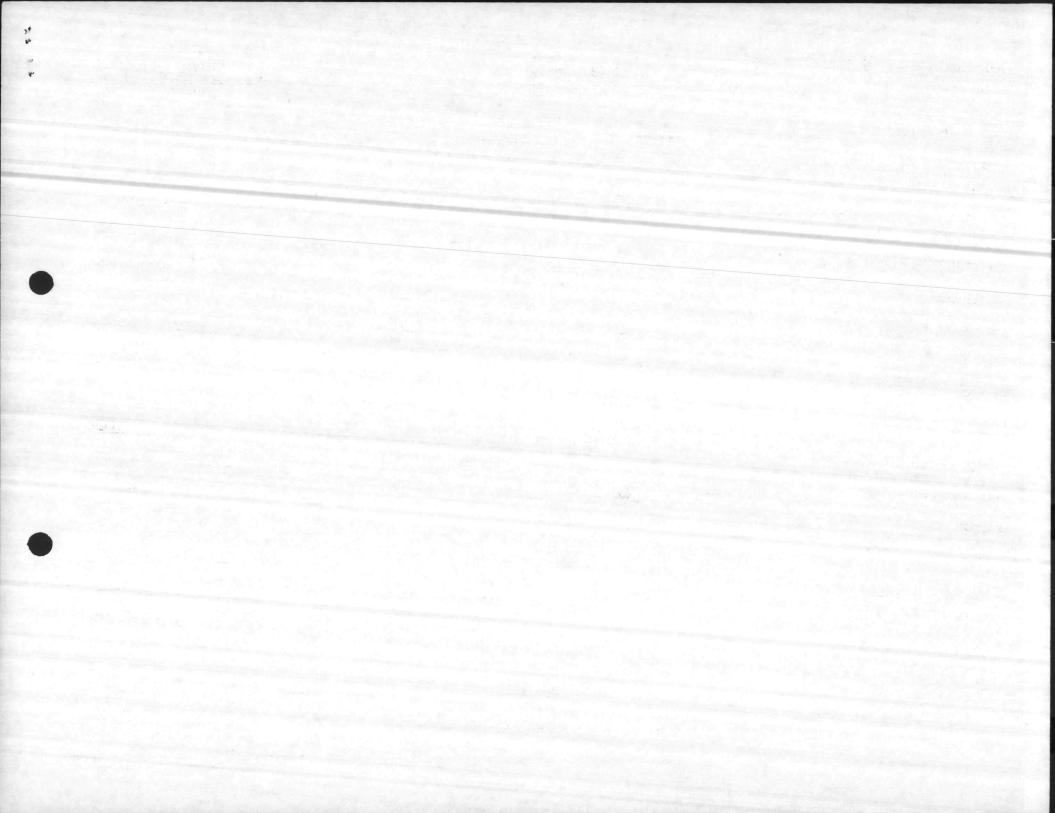
NAVFAC 11013/7 (1-78) Supersedes NAVDOCKS 2417 and 2417A	COST ES	TIM	ATE .		19	SEP 1980	SHEET	1 OF 2	
MARINE CORPS BASE	CONSTRUCTION CO	P-:	IDENTIFICATION NUMBER P-175 CATEGORY CODE NUMBER 217-10						
					V. Marsh				
ALTERNATIVE "B"			STATUS OF DESIG	N	JOB ORDEF	JOB ORDER NUMBER			
ITEM DESCRIPTION	QUANTIT	Y UNIT	MATERIAL COST		LABO UNIT COST	R COST TOTAL	ENGINEERI UNIT COST	NG ESTIMATE TOTAL	
FOUNDATION	27,735	SF					1.80	50,000	
SLAB ON GRADE	27,735	SF					2.74	76,000	
STRUCTURAL FRAME	27,735	SF					.11	3,000	
SUPPORTED FLOORS	2,831	SF	Sector Sector				9.54	27,000	
ROOF SYSTEM	27,735	SF		an a			7.79	216,000	
EXTERIOR WALLS	13,756	SF					10.54	145,000	
INTERIOR WALLS	17,424	SF					4.99	87,000	
INTERIOR FINISH	51,904	SF			· ·		1.27	66,000	
DOORS AND WINDOWS	73	EA					876.71	64,000	
SPECIALTIES	27,735	SF					4.29	119,000	
PLUMBING	62	EA		an a	a series and the series of		1,677	104,000	
MECHANICAL (HVAC)	12	ΤN					9,333.77	112,000	
ENGINE EXHAUST SYSTEM	4	EA					4,500	18,000	
SPRINKLER	27,735	SF					1.15	32,000	
COMPRESSED AIR	1	EA					9,000	9,000	
EMCS	20	EA				Constant of the	600	12,000	
SPECIAL EQUIPMENT	1	EA					25,000	25,000	

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CTIVITY AND LOCATION MARINE CORPS BASE		CONSTRUCTION C	ONTRACT NO.	P-1	TION NUMBER 75 CODE NUMBER			
CAMP LEJEUNE, NORTH CAROLINA			V. Marsh	ourn	217			
ALTERNATIVE "B"			STATUS OF DESIC	SN 0% 100% [FINAL Other	(Specify)	JOB ORDER	
ITEM DESCRIPTION		TY	MATERIAL COST		LABOR COST		ENGINEERI UNIT COST	NG ESTIMATE TOTAL
ELECTRI CAL	27,735	SF					5.80	161,000
SUBTOTAL BUILDING								1,326,000
ELECTRICAL	1	EA					38,000	38,000
ELECTRICAL SUBSTATION	300	KVA					43.33	121,000
HEAT DISTRIBUTION	400	LF				an a	150	60,000
SANI TARY SEWERS	200	LF			and the second		20	4,000
WATER DISTRIBUTION	200	ĹF					30	6,000
ROADS, PARKING, WALKS	4,537	SY			•		13.44	61,000
SITE IMPROVEMENTS	1	LS					-	136,000
DEMOLITION	7	EA					8,571.42	60,000
SUBTOTAL SUPPORTING FACILITIES				and sugaran	and the second		-	378,000
TOTAL EST. CONTRACT COST					a gabia in sa	the second s		1,704,000
CONTINGENCY - 5%			and the second second					85,000
SIOH - 5.5%			1.00	Art of the second				98,000
TOTAL BUDGET COST								1,887,000
			1				SAY:	1,900,000
		1000	1.1.1					

