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1 NOVEMBER 1984

DEPARTMENT OF THE NAVY

ANDA & SA

PROJECT ENGINEERING DOCUMENTATION

APPLIED INSTRUCTION BUILDING

P-808

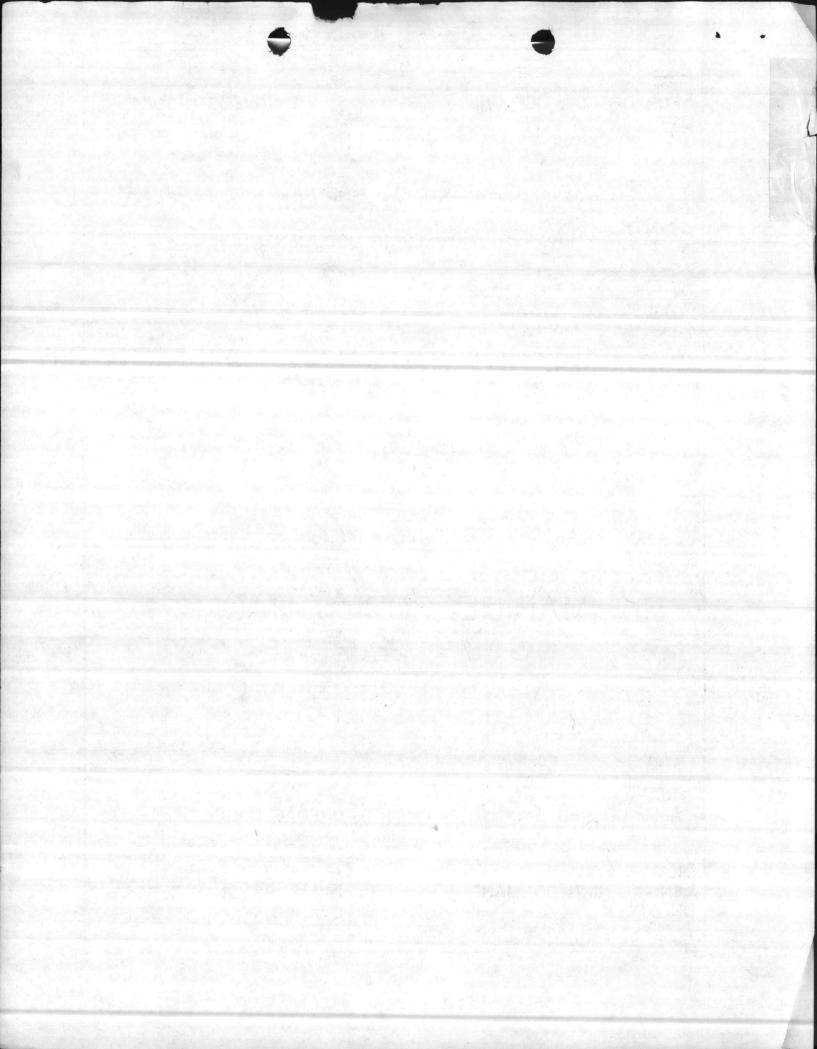
FY 1986 MCON

MARINE CORPS BASE CAMP LEJEUNE JACKSONVILLE, N.C.

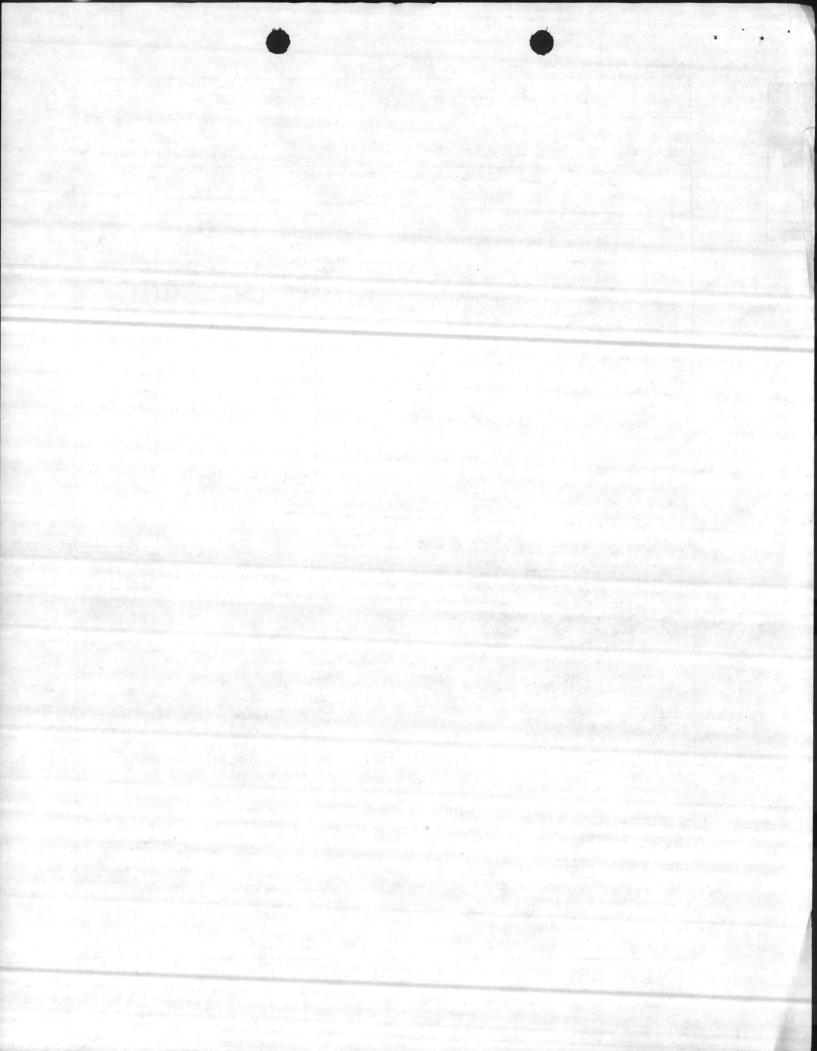
ADMINISTERED BY:

ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VA 23511 PREPARED BY:

NAKAZAWA CORPORATION ARCHITECTS & PLANNERS 212 S. TRYON STREET CHARLOTTE, NC 28281

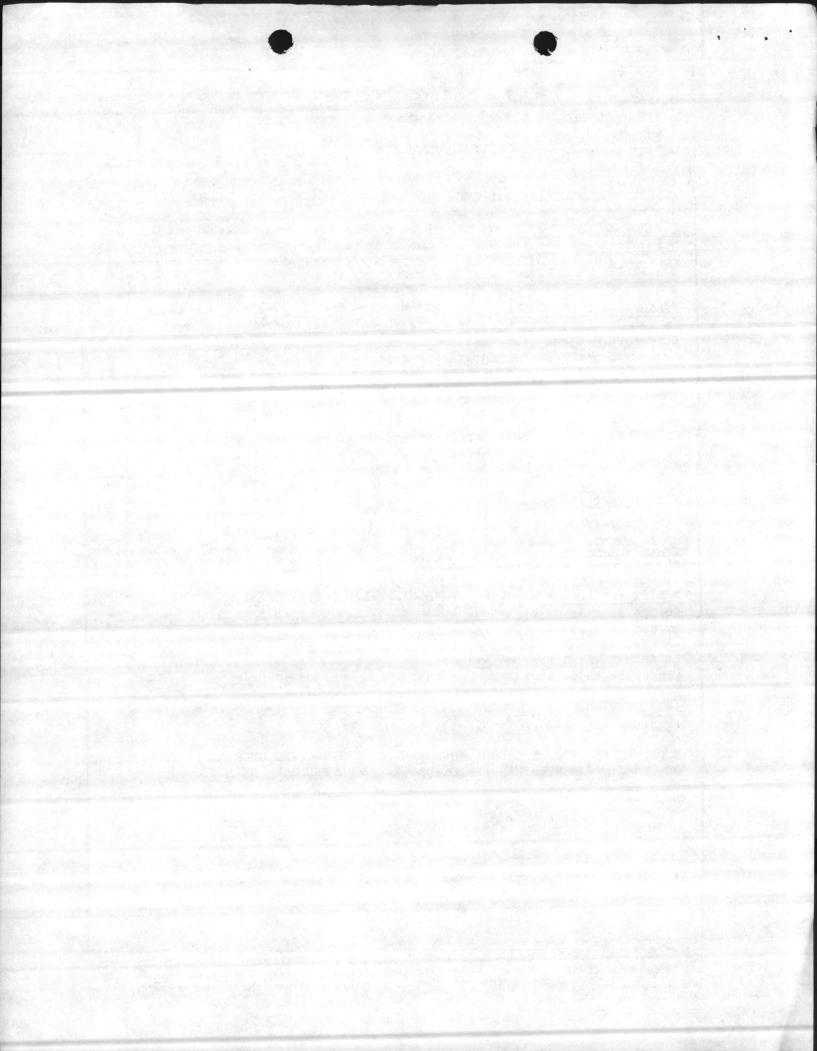


NAVY	FY 1986 MILITARY CO	ONSTRUCT	ION PR	OJECT DA		ATE
3. INSTALLATION		4	PROJEC	TTITLE	der en sk	2.6
CAMP LEJEUNE,	, NORTH CAROLINA		APPLIEI	INSTRUCT	CION BUI	LDIN
5. PROGRAM ELEM	ENT 6. CATEGORY CODE	7. PROJECT	NUMBER	8. PROJ	ECT COST (\$000)
and the second second	. 171-20	P-808	R	5 8 16		
	and the state of the second	DST ESTIMATE	10			
	P 1 . 1		1·		UNIT	C
Escalation:	(8%)? ITEM Escalated 1 APRIL 1		U/M	QUANTITY	COST	(\$0
APPLIED INSTR	RUCTION BUILDING		. SF	26,961	50.18	1,
Building	3	restar far	SF	26,961	39.46	(1,
Built-in	n Equipment	1. Sec. 1. Sec. 1.	LS	-		(
SUPPORTING FA			LS		1	1,
	al Distribution		LS	-	-	(
	stribution		LS	-	-	(
services and the service of the serv	Sanitary, Storm		LS	-	-	(
	Parking, Sidewalks	Chine Stevens	LS	-		(:
SUB-TOTAL					Sec. 1	2,
CONTINGENCY (
TOTAL CONTRAC					1.	2,
	INSPECTION & OVERHEAD	(5.5%)		1. 1. 1. 1. 1.		
TOTAL REQUEST			1000	1.1211.12	100	2,
TOTAL REQUEST	VIDED FROM OTHER APPRO	DETATIONS	distance of			2,
Construct a p concrete foun steel joists,	F PROPOSED CONSTRUCTION Dermanent applied instru- dation, concrete floor metal roof decking, in and air conditioning; ting - 43 Tons.	, masonry nsulation	walls, and bu	steel fr ilt-up ro	aming woof. He	ith atin
Air Condition 11. REQUIREM 17/- PROJECT: To	ENT: 109,200 SF ADEQUA 20,109,200 10 217,304 construct Increment I o ort School, MCSS.	ATE: 640 S	F SU 10,732	BSTANDARD 171-2 171-70 mic facil	98208	SF or th
Air Condition 11. REQUIREM 17/- PROJECT: To Motor Transpo <u>REQUIREMENT</u> : training of m	construct Increment I rt School, MCSS. Project is required to illitary personnel in 2	of Applied o provide	l/Acade adequa	mic facil te facili	ities fo	r
Air Condition 11. REQUIREM 17/- PROJECT: To Motor Transpo <u>REQUIREMENT</u> : training of m Marine Corps CURRENT SITUA	construct Increment I rt School, MCSS. Project is required to illitary personnel in 2	of Applied o provide nd, 3rd, a tor Transp	adequa and 4th	mic facili te facili eschelon hool faci	ties for mainter lities	r nance are



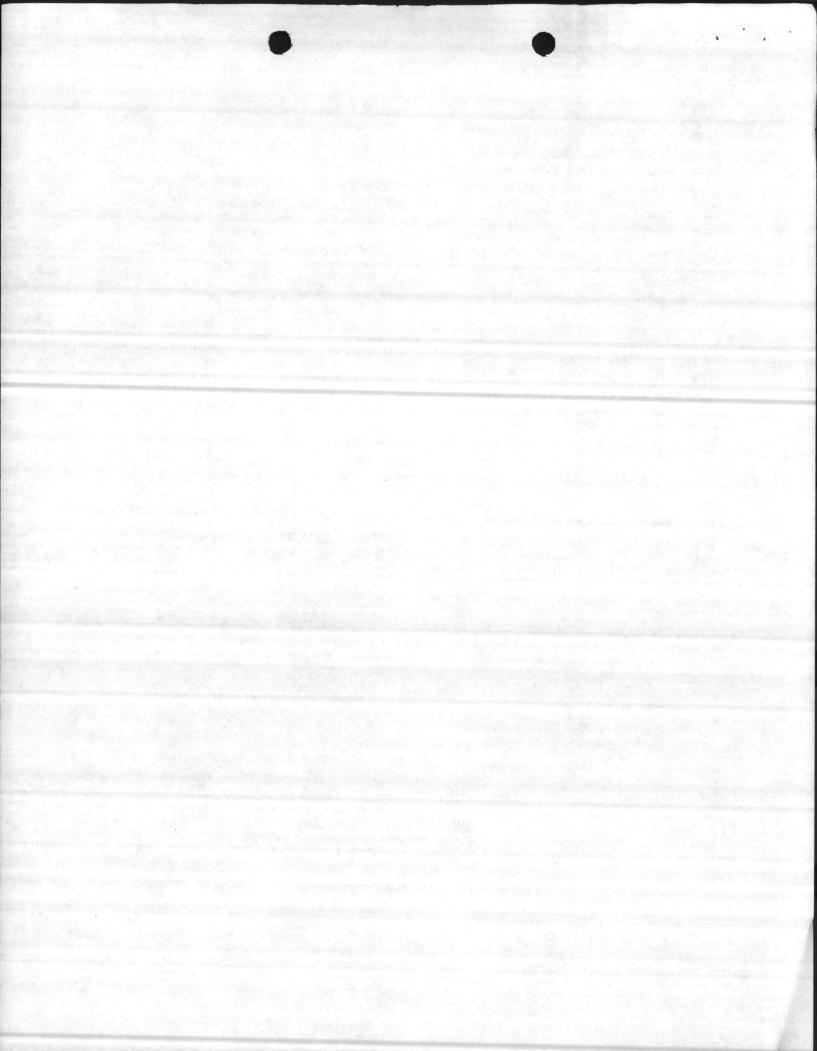
			and the second	2. DATE
NAVY	FY 19_86MILIT	ARY CONSTRUCTION PROJE	CT DATA	01 NOV 84
I. INSTALLATION	AND LOCATION			
MARINE COR	S BASE, CAMP LEJ	EUNE, NORTH CAROLINA		
. PROJECT TITLE			5. PROJ	ECT NUMBER
APPLIED INS	TRUCTION BUILDING	;	P-808	3.
ENVIRONMEN.	AL PROTECTION:	The project Preliminary E	nvironment	al
Assessment consideration	has been reviewed	l, and where required, th g adverse environmental e	e design d	concepts give
do not dire structure,	ctly or indirect object or setting	SITES AND STRUCTURES: They affect a district, sit which is listed in the sicant quality of America	e, buildin National F	legister or
FLOODPLAIN	MANAGEMENT AND WI	TLANDS PROTECTION:		
Act of 1972	(as amended), th	accordance with the Coa is project will not dire consistency determination	ctly affec	t the
POLLUTION A pollution.	BATEMENT: This p	roject will not cause add		Constant State
pollution. DESIGN FOR for physica	ACCESSIBILITY OF	PHYSICALLY HANDICAPPED Plersonnel provided in this	ditional a	ir or water Provisions
pollution. <u>DESIGN FOR</u> for physica by Design M ENDANGERED	ACCESSIBILITY OF 11y handicapped p anual DM-1, Archi SPECIES PROTECTIO	PHYSICALLY HANDICAPPED Plersonnel provided in this tecture.	ditional a <u>ERSONNEL</u> : s facility	ir or water Provisions as required
pollution. DESIGN FOR for physica by Design M ENDANGERED conservation INTERGOVERN	ACCESSIBILITY OF 11y handicapped p anual DM-1, Archi SPECIES PROTECTIO	PHYSICALLY HANDICAPPED Plersonnel provided in this tecture. N: This project will not r threatened species.	ditional a <u>ERSONNEL</u> : s facility t jeopardi	ir or water Provisions as required ze
pollution. <u>DESIGN FOR</u> for physica by Design M <u>ENDANGERED</u> conservation <u>INTERGOVERN</u> required for <u>ECONOMIC AN</u>	ACCESSIBILITY OF 11y handicapped p anual DM-1, Archi SPECIES PROTECTIC n of endangered of MENTAL COORDINATI r this project. ALYSIS & ENERGY O	PHYSICALLY HANDICAPPED Prersonnel provided in this tecture. N: This project will not r threatened species.	ditional a <u>ERSONNEL</u> : s facility t jeopardi l coordina UPON LANTD	ir or water Provisions as required ze tion is IV APPROVAL
pollution. <u>DESIGN FOR</u> for physica by Design M <u>ENDANGERED</u> conservation <u>INTERGOVERN</u> required for <u>ECONOMIC AN</u>	ACCESSIBILITY OF lly handicapped p anual DM-1, Archi SPECIES PROTECTIO n of endangered of MENTAL COORDINATI r this project. ALYSIS & ENERGY O COMPUTERIZED ENER	PHYSICALLY HANDICAPPED Prersonnel provided in this tecture. N: This project will not r threatened species. ON: No Intergovernmental ONSERVATION FORTHCOMING T	ditional a <u>ERSONNEL</u> : s facility t jeopardi l coordina UPON LANTD	ir or water Provisions as required ze tion is IV APPROVAL

U.S. GOVERNMENT PRINTING OFFICE: 1978-703-173/3431 2-1

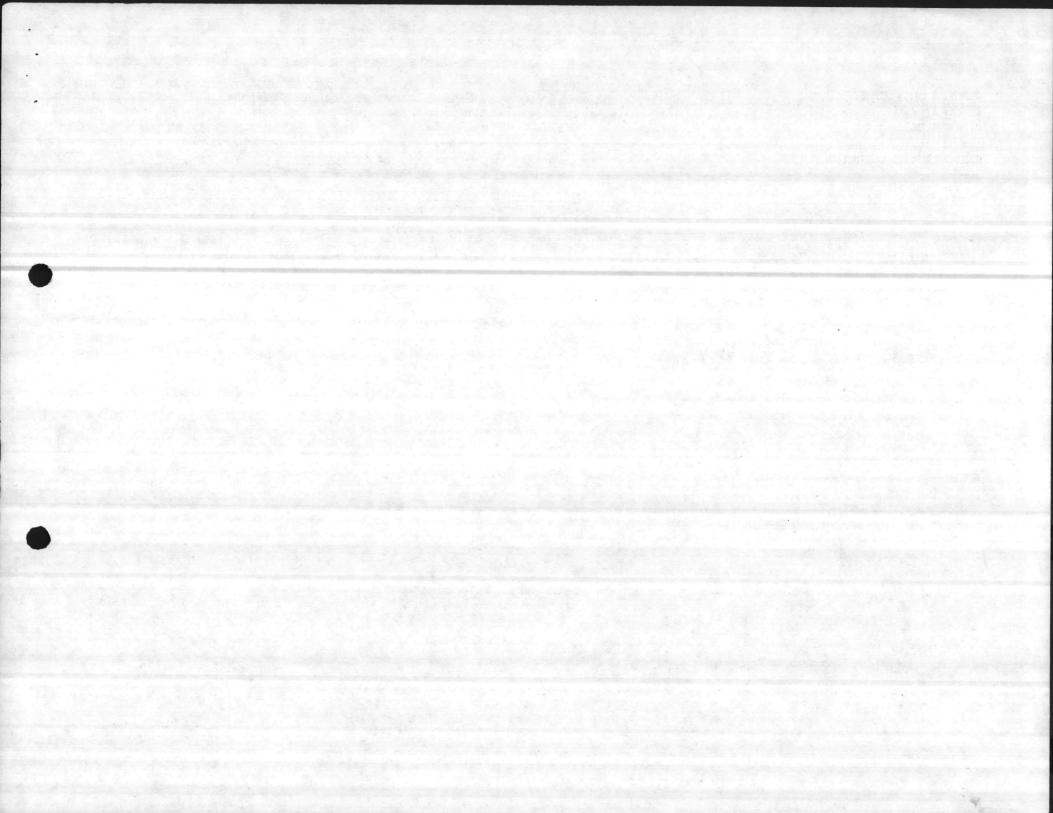


BUDGET ESTIMATE FOR P-808

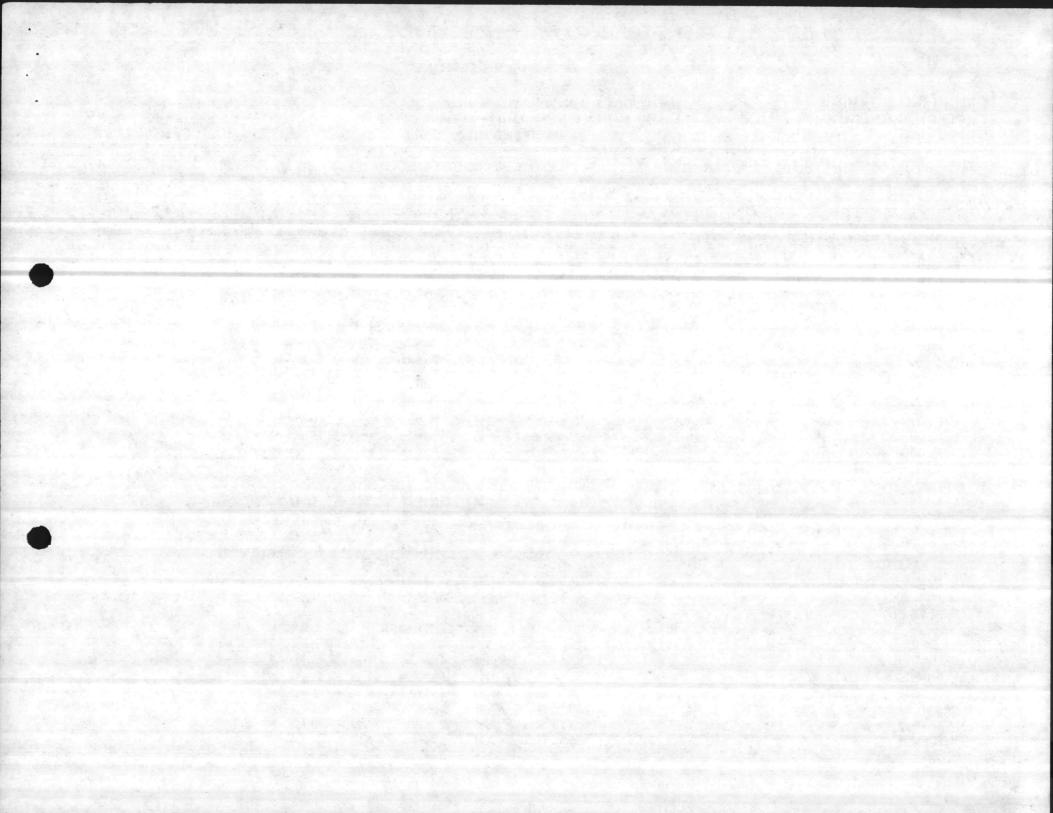
Loc	le: APPLIED INSTRUCTION I ation: MARINE CORPS BASE, Co pared By: NAKAZAWA CORPORATION	AMP LEJEUNE			Costs Es Escalati Continge		1 April, 198 82 52
	LDING GROSS SQUARE FEET		S/SYS	SYS QUAN	TOTAL	BUILDING	BUILT-IN EQUIPMENT
RI	MARY FACILITY	Sel e dega					
	Foundation	2.11			57,000	57,000	
	Slab on Grade	2.71			73,000		
	Structural System	2.34			63,000	63,000	
	Roof System	8.49			229,000		
	Exterior Wall System	6.68			180,000		
	Interior Wall System	1.67			45,000	and the second se	
	Interior Finishes System	2.59			70,000		
	Doors and Windows System	3.52			95,000		
1		0.82				11,000	11,000
5	Plumbing	2.89				38,000	
	Mechanical, Interior	7.05			190,000	A CONTRACT OF A DESCRIPTION OF A	
	Interior Fire Protection	3.30			the second se	11,000	
	Interior Electrical	5.49			148,000		
	Interior Communication	0.52			14,000	0	
	SUBTOTAL BUILDING	\$50.18			\$1,353,000	\$1,064,000	\$289,000
UP	PORTING FACILITIES						
0	Electrical Distribution		146.00	1500 LF	220,000		
	Electrical Transformer				17,000		
8	Heat Distribution			3000 LF			
0	Sanitary Sewers				148,000		
2	Water Distribution			4400 LF			
5	Fuel Storage			5000 LS			and the s
	Lift/Pumping Station		1		77,000		
	Paving		1	LS			
	SUBTOTAL SUPPORTING FACILITIES				\$1,195,000		
	TOTAL ESTIMATED CONTRACT COST:	1 APRIL 19	86		2,548,000		
		C	ONTINGENCY	e 5%	127,000		
	- 그렇게 많은 것이 같은 눈에 가지?		IOH @ 5.5%		140,000		
	A		OTAL BUDGE		2,815,000		



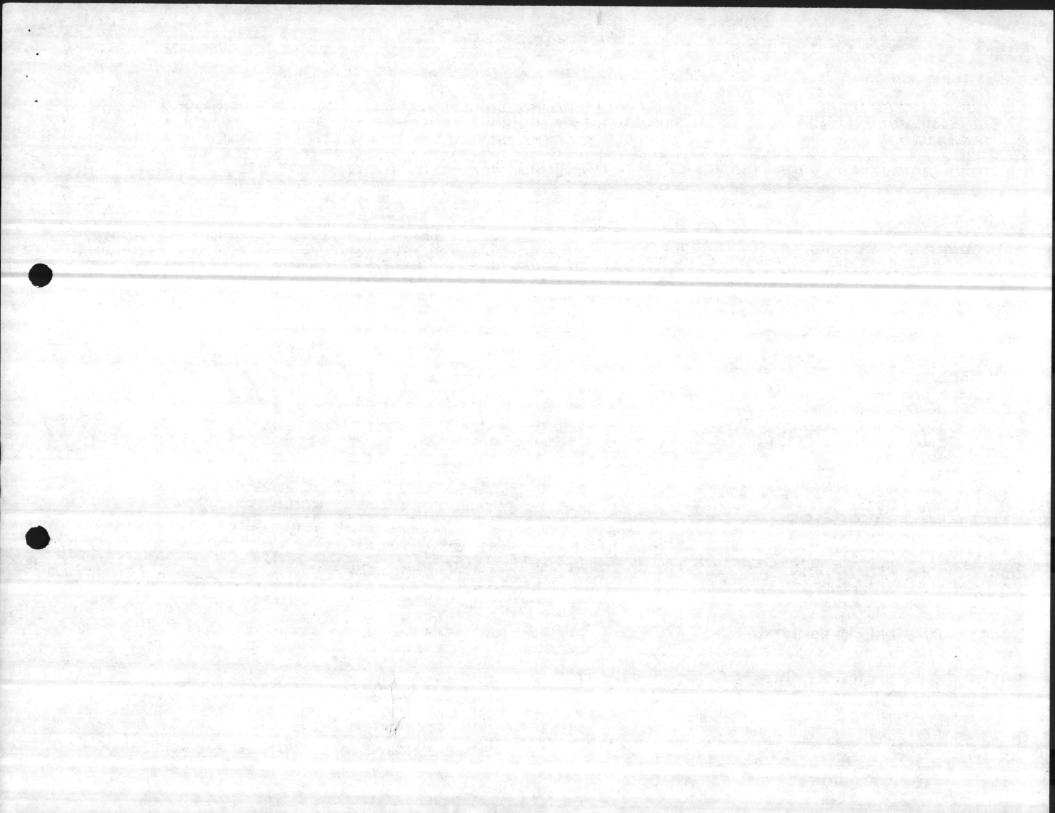
MATERIAL & LABOR COST ESTIMATE PREPARED BY: NAKAZAWA CORPORATION FUNDS AVAILABLE:	LANTDIV NORVA 4-1101 Atlantic division na	AVAL FACIL		GINEERIN	5 COMMAND		Con	ET 1 OF st.Contr E: 01	and the second state of the second state of the	1 1
PROJECT: APPLIED INSTRUCTION BUILDING - P-BOB, FYB		LOCATION	: MARINE	E CORPS I	BASE, CAMP	LEJEUNE,	N.C.		PRELIM	FINAL
			MATERI	IAL COST	LA	BOR COST				
ITEMS	QUANTITY		UNIT	TOTAL	UNIT	TOTAL	TOTAL		REMARKS	
THE FOLLOWING MULTIPLIERS WILL APPLY TO MATERIAL FOR MATERIALS AND LABOR PROVIDED BY THE GENERAL										
01) PRIME CONTRACTOR MATERIALS MARK-UP = 1.04 (materials tax) x 1.12 (overhead) x 1.08 (profit) x 1.01 (bond) =		ME MATERI							
2) PRIME CONTRACTOR LABOR MARK-UP = 1.18 (payroll taxes, fringe benefits, worker's a x 1.12 (overhead) x 1.08 (profit) x 1.01 (bond)		1.44 PR	- i d	R MARKUP						
FOR MATERIALS AND LABOR PROVIDED BY THE SUB-CON	TRACTOR:									
O3) SUB-CONTRACTOR MATERIALS MARK-UP = 1.04 (materials tax) x 1.12 (overhead) x 1.08 (p (bond) x 1.10 (prime contractor markup) =										



	DIV NORVA 4-1101 NTIC DIVISION NA	VAL FACIL		INEERING COMM			SHEET 1 OF 6 Const.Contr.No. DATE: 01 NOV 1984		
		LOCATION	: MARINE	CORPS BASE,		NE, N.C.		PRELIM	FINAL
			MATERI	AL COST	LABOR				
ITEMS	QUANTITY	UNIT	UNIT	TOTAL	UNIT	TOTAL	TOTAL COST	REMARKS	
01 FOUNDATION:					*********	22222222822222			
a) Reinforcing Steel	12	TN	520.00	6,240.00	200.00	2,400.00			
b) Concrete Formwork	4,932		0.56	2,761.92	1.20	5,918.40			
c) Concrete, Foundation	165		54.50	8,992.50	4.20	693.00			
d) Excavation	2,000	CY	3.20	6,400.00	1.95	3,900.00			
e) Backfill	500		1.10	550.00	1.85	925.00			
SUB-TOTAL				24,944.42	· · · · ·	13,836.40			
SYSTEM 01: TOTAL W/SUB-CONTR. MARKUP			1.40 :		1.59 =			Sec. Car.	
				34,922.19		21,999.88	\$56,922.06		
2 SLAB ON GRADE									
a) Capillary Water Barrier	500	CY	14.50	7,250.00	3.15	1,575.00			
b) Welded Wire Fabric	285	SQ	14.80	4,218.00	9.50	2,707.50	al des désidents de		
c) Perimeter Rigid Insulation	1,500	SF	0.38	570.00	0.23	345.00			
d) Reinforcing Steel	6	TN	520.00	3,120.00	200.00	1,200.00			
e) Vapor Barrier	2,850	SY	1.65	4,702.50	0.90	2,565.00			
f) Concrete Slab Placement	471	CY	54.50	25,669.50	5.20	2,449.20			
SUB-TDTAL				45,530.00		10,841.70			
SYSTEM 02: TOTAL W/PRIME CONTR. MARKUP			1.27 =		1.44 =				
				57,823.10		15,612.05	\$73,435.15		
3 STRUCTURAL SYSTEM				1					
a) Structural Steel Frame	38	TN	942.00	35,796.00	210.00	7,980.00			
SUB-TOTAL				35,796.00		7,980.00			
SYSTEM 03: TOTAL W/SUB-CONTR. MARKUP			1.40 =		1.59 =				
A DOOL CARTEN				50,114.40		12,688.20	\$62,802.60		
06 ROOF SYSTEM	E4	TM	110 00	77 110 00	175 00	0 005 00			
a) Steel Joists b) Metal Deck - 1 1/2" x 22 Ga.	51	TN	660.00	33,660.00	175.00	8,925.00			
	25,400		1.48	37,592.00 9,009.00	0.54	13,716.00			
 c) Composite Board Insulation d) Roof Insulation 	14,300 11,100		0.63	4,995.00	0.12	1,716.00			
	254	SQ	0.45 48.85	12,407.90	0.12 34.20	1,332.00 8,686.80		Service Marches	
e) Built-Up Roofing - 4 ply f) Flashing	254	State of the local day of the	48.85	1,989.00	0.82	738.00			
T/ FLASHLIY	700	LF	2.21	1,707.00	0.02	/38.00			

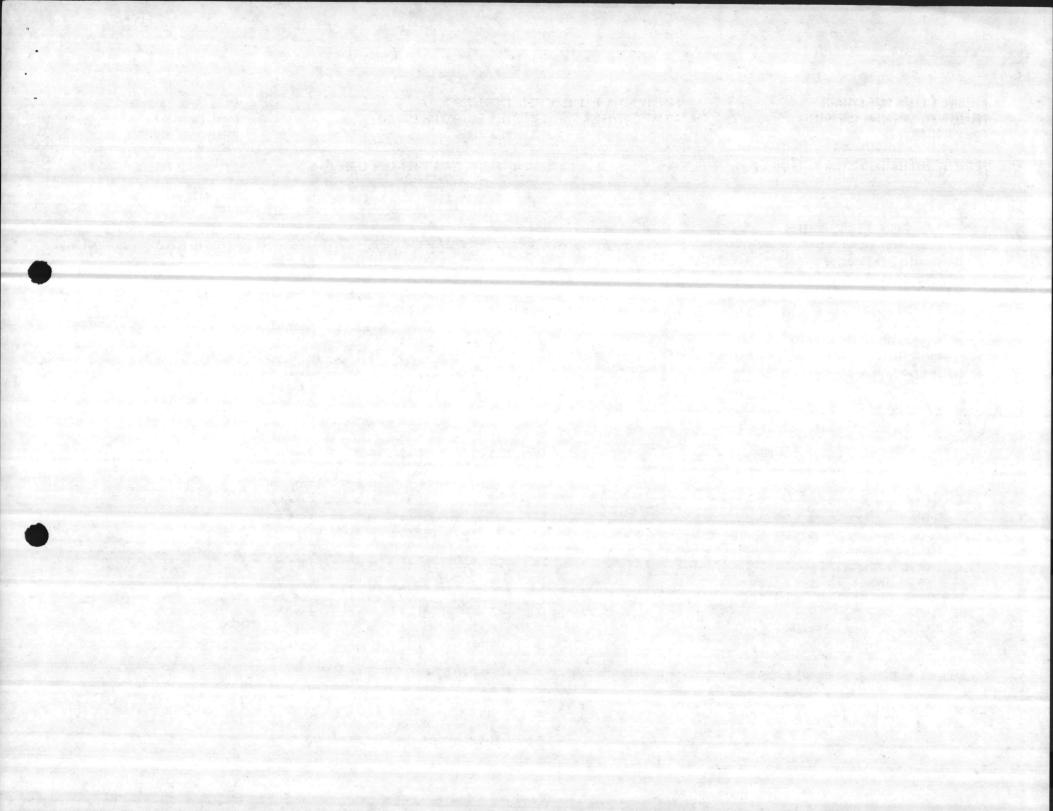


	DIV NORVA 4-11012 NTIC DIVISION NAV	VAL FACILI	TIES ENG	SINEERING COMMA	ND		SHEET 2 D Const.Cont DATE: 0		
PROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON				CORPS BASE, C	CAMP LEJEU	NE, N.C.		PRELIM	FINAL
				IAL COST	LABOR	COST			
ITEMS*	QUANTITY	UNIT	UNIT	TOTAL	UNIT	TOTAL	TOTAL COST	REMARKS	
g) Gutters and Downspouts	240		1.85	444.00	0.80	192.00			
h) Skylight, Roof	1,476	SF	22.25	32,841.00	4.23	6,243.48			
i) Scupper	8	EA	18.00	144.00	8.50	68.00			
SUB-TOTAL				133,081.90		41,617.28			
SYSTEM 06: TOTAL W/PRIME CONTR. MARKUP			1.27		1.44 =		************		
07 EXTERIOR WALL SYSTEM				169,014.01		59,928.88	\$228,942.90		
a) Brick, Face, Standard Size	86	M	135.00	11,610.00	365.00	31,390.00			
b) Concrete Masonry Unit, Hollow 8"	12,700		1.09	13,843.00	-1.64	20,828.00			
c) Insulation, Wall	4,716		0.21	990.36	0.15	707.40			
d) Metal Wall Panels, Insulated	5,040		6.50	32,760.00	1.75	8,820.00			
e) Structural Steel Framing & Lintels	10,000		0.56	5,600.00	0.32	3,200.00			
f) Exterior Painting	4,000		0.11	440.00	0.15	600.00			
g) Exterior Flashing	750		0.78	585.00	0.82	615.00			
h) Exterior Calking	1,200	LF.	0.06	72.00	0.62	744.00			
SUB-TOTAL	.,	-		65,900.36		66,904.40			
SYSTEM 07: TOTAL W/PRIME CONTR. MARKUP			1.27		1.44 =				
			1.10	83,693.46		96.342.34	\$180,035.79		
08 INTERIOR WALL SYSTEM	Contraction of the			The second					
a) 8° Concrete Masonry Units	9,000	SF	1.09	9,810.00	1.64	14,760.00			
b) 6" Concrete Masonry Units	2,400		0.91	2,184.00	1.52	3,648.00			
c) 4" Concrete Masonry Units	1.000		0.74	740.00	1.40	1,400.00			
SUB-TOTAL				12,734.00		19,808.00			
SYSTEM 08: TOTAL W/PRIME CONTR. MARKUP			1.27		1.44 =				
				16,172.18		28,523.52	\$44,695.70		
09 INTERIOR FINISHES SYSTEM							1. St. 1993 - 199		
a) 5/8" Gypsum Wall Board Ceilings	1,400	SF	0.23	322.00	0.38	532.00			
b) Acoustic Tile Ceilings	8,350		0.42	3,507.00	0.19	1,586.50			
c) Field Painting	23,000		0.11	2,530.00	0.15	3,450.00			
d) Acoustical Wall Board	2,500		2.30	5,750.00	0.45	1,125.00			
e) Carpeting	435		14.20	6,177.00	2.10	913.50			
	Carl Press in Sec.	A State		Server States and					

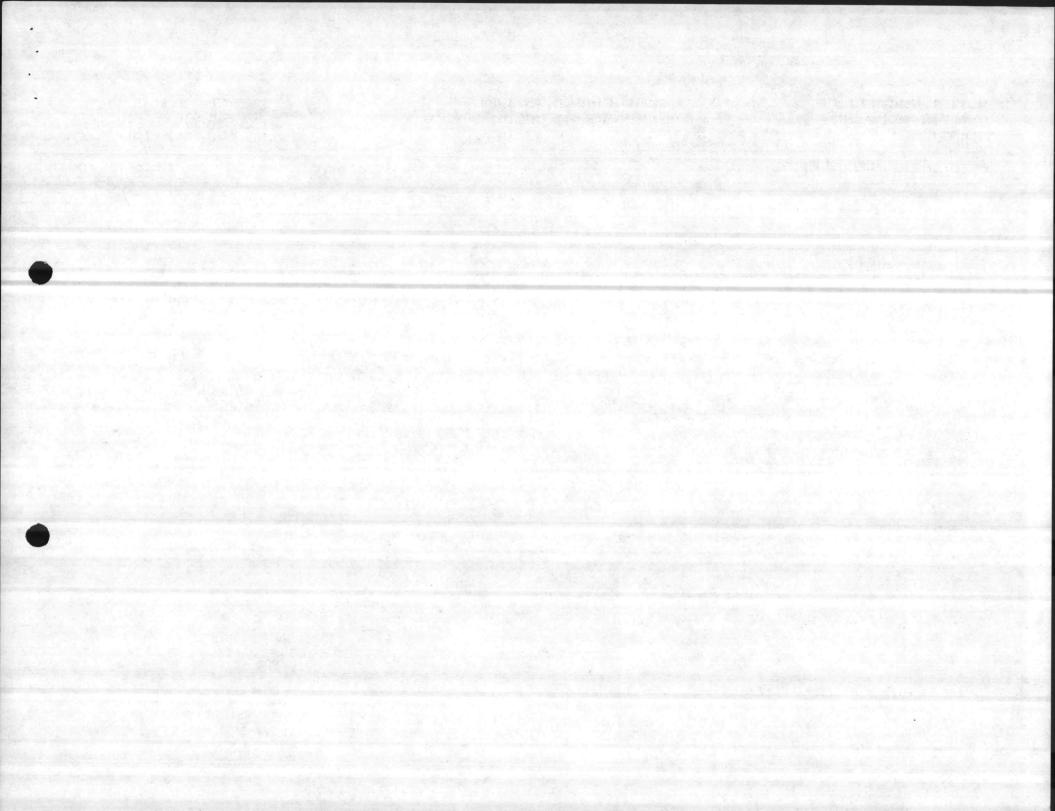


	BY: NAKAZAWA CORPORATION A	ANTDIV NORVA 4-1101 TLANTIC DIVISION NA		TIES ENE	SINEERING COMM	AND		SHEET 3 (Const.Cont DATE: (
PROJECT:	APPLIED INSTRUCTION BUILDING - P-808, FY86 MCO	N	LOCATION	MARINE	CORPS BASE,	CAMP LEJEU	INE, N.C.		PRELIM	FINAL
			- signa		IAL COST	LABOR	COST			
	ITEMS*	QUANTITY	UNIT	UNIT	TOTAL	UNIT	TOTAL	TOTAL COST	REMARKS	
f) (Ceramic Tile Flooring	1,100	SF	1.65	1,815.00	1.46	1,606.00	**************		
g) (Ceramic Tile Wainscot	700	SF	1.40	980.00	1.41	987.00			
-	Vinyl Composition Tile (VCT)	7,750	SF	0.81	6,277.50	0.27	2,092.50			
	loor Hardener	9,500		0.04	380.00	0.12	1,140.00			
j) \	/inyl Wall Covering	500		0.56	280.0d	0.30	150.00			
	Suspended Ceiling Systems	9,750	SF	0.34	3,315.00	0.32	3,120.00			
SUB-1					31,333.50		16,702.50			
SYSTE	M 09: TOTAL W/SUB-CONTR. MARKUP			1.40		1.59 =				
					43,866.90		26,556.98	\$70,423.88		
10 DOORS	S AND WINDOWS SYSTEM									
a) E	xterior Overhead Rolling Steel Door Frames	6,000	LB	0.55	3,300.00	0.37	2,220.00			
	xterior Door Frames - 6x7	9	EA	72.00	648.00	20.00	180.00			
c) E	Exterior Dverhead Rolling Steel Doors	10	EA	1685.00	16,850.00	347.00	3,470.00			
	exterior Doors - Pairs (6x7)	9	EA	345.00	3,105.00	42.00	378.00			
e)]	Interior Doors - 3x7	18	EA	165.00	2,970.00	21.00	378.00			
f) 1	Interior Doors - 6x7	2	EA	330.00	660.00	42.00	84.00			
g) }	Hollow Metal Door Frames - 3x7	18	EA	53.00	954.00	16.00	288.00			
h) }	Iollow Metal Door Frames - 6x7	2	EA	65.00	130.00	19.00	38.00			
i) E	exterior Window Frames	450	SF	8.50	3,825.00	2.40	1,080.00			
j) 1	interior Window Frames	128	SF	6.50	832.00	2.40	307.20			
k) E	xterior Glass & Glazing - 1" Insulation	1,450	SF	5.50	7,975.00	2.80	4,060.00			
	nterior Glass & Glazing - 1/4" plate	128	SF	1.65	211.20	2.40	307.20			
	Calking	850	LF	0.06	51.00	0.62	527.00			
n) F	Painting of Doors and Frames	4,000	SF	0.12	480.00	0.16	640.00			
o) H	lardware	38	EA	214.00	8,132.00	43.00	1,634.00			
SUB-1	TOTAL				50,123.20		15,591.40			
SYSTE	M 10: TOTAL W/SUB-CONTR. MARKUP			1.40		1.59 =				(
					70,172.48		24,790.33	\$94,962.81		
11 SPECI	ALTIES SYSTEMS	이야지 않는 것을 못 하는 것을 수 없다.					A States	A THE MAR STORE		
a) 6	Fraphics	1	LS	800.00	800.00	400.00	400.00			
b) L	ouvers - 2'x4'	16	SF	21.00	336.00	4.50	72.00			
	ALL TARGET AND A COMPANY AND A REAL ADDRESS OF A REAL ADDRE									

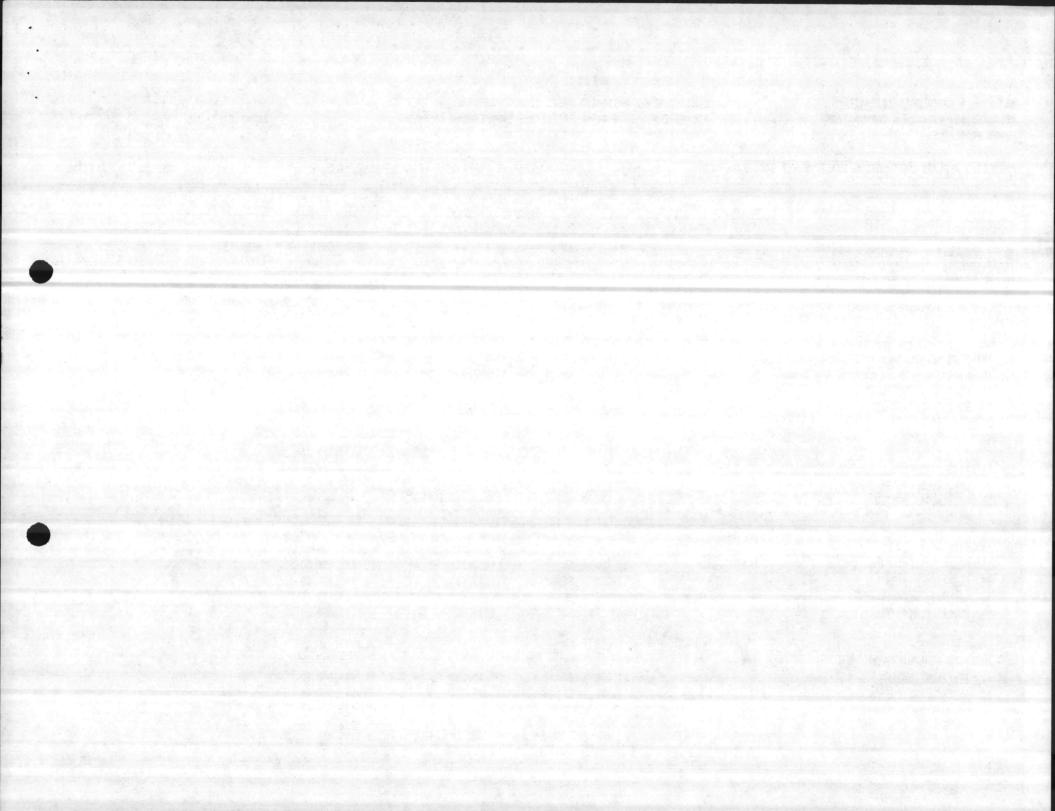
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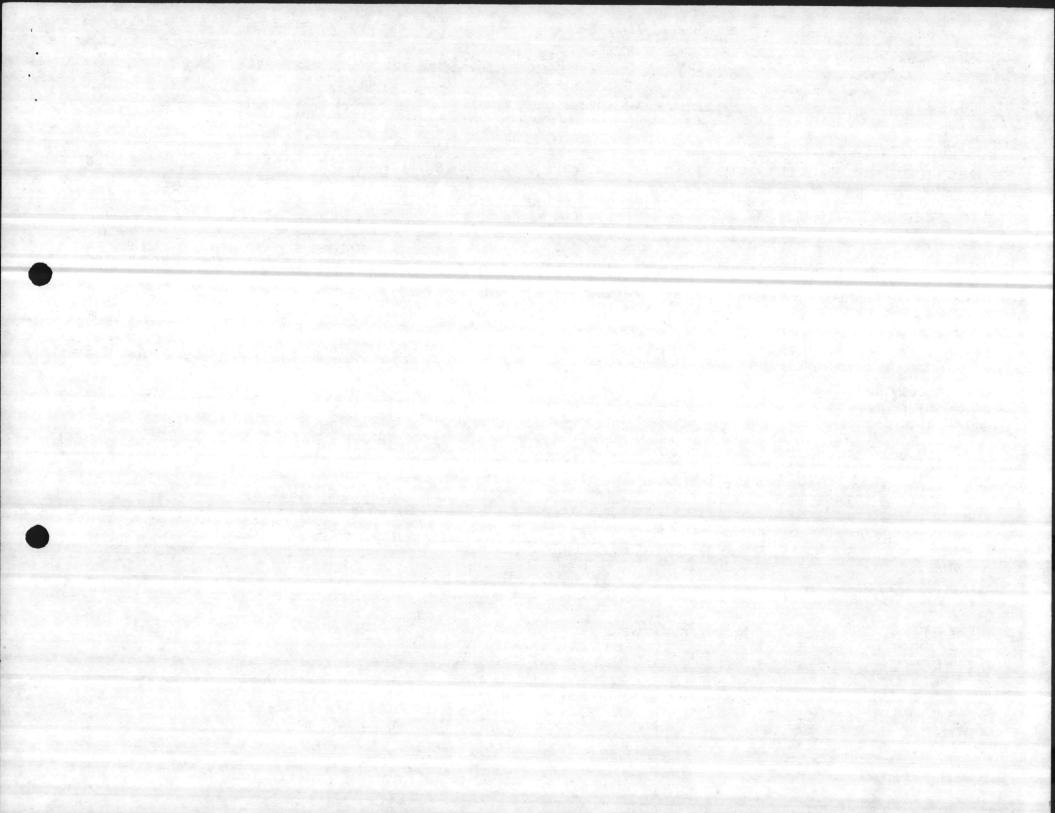
REPARE		NTDIV NORVA 4-1101 LANTIC DIVISION NA	VAL FACIL			AND		SHEET 4 0 Const.Cont DATE: 0	- The second state of the second state of the	
ROJECT	APPLIED INSTRUCTION BUILDING - P-808, FY86 MCDN		LOCATION	: MARINE	CORPS BASE,	CAMP LEJEUN	IE, N.C.		PRELIM	FINAL
				MATERIA	IL COST	LABOR	COST		an a	
	ITEMS	QUANTITY	UNIT	UNIT	TOTAL	UNIT	TOTAL	TOTAL COST	REMARKS	
c)	Window Shades - 4'x2'	16	EA	42.00	672.00	30.00	480.00			
d)	Ladder	1	EA	400.00	400.00	180.00	180.00			
e)	Toilet Partitions	12	EA	225.00	2,700.00	40.00	480.00			
f)	Toilet Accessories	30	EA	60.00	1,800.00	10.00	300.00			
g)	Instructor Platforms	6	EA	250.00	1,500.00	135.00	810.00			
h)	Classroom Seating (Tier)	3	EA	1200.00	3,600.00	150.00	450.00			
SUB-	-TOTAL				11,808.00		3,172.00			
SYS	TEM 11: TOTAL W/SUB-CONTR. MARKUP			1.40 =		1.59 ==	**********			
					16,531.20		5,043.48	\$21,574.68		



PREPA	IAL & LABOR COST ESTIMATE RED BY: NAKAZAWA CORPORATION AVAILABLE:	LANTDIV NORVA 4-11012 Atlantic division NAV	AL FACI		COMMAND		SHEET 5 Const.Contr.1 DATE:	DF 6 No. 01 NDV 1984	
ROJE	CT: APPLIED INSTRUCTION BUILDING - P-808, FY8	5 MCDN	LOCATIO	N: MARINE CORPS BA	SE, CAMP	LEJEUNE, N.C.		PRELIM	FINAL
				MATERIAL, LABOR, OVERHEAD & PROFIT		MATERIAL, LABOR, OVERHEAD & PROFIT			
	ITEMS	QUANTITY	UNIT	UNIT		TOTAL COST	REMARKS		
BF	**************************************		222223		72528722	******************			
	2 PLUMBING - DOMESTIC	40	EA	\$1,725.00		\$69,000.00			
1	3 RODF DRAINAGE	10	EA	\$920.00		\$9,200.00			
					TOTAL	\$78,200.00			
C I	NTERIOR MECHANICAL:				TUTAL	*/0,200.00			
	5 HVAC	43	TN	\$2,862.00		\$123,050.00			
110.3	7 HEATING & VENTILATING	10,000	CFM	\$2.59		\$25,875.00			
1	8 ENGINE EXHAUST SYSTEM	3,200	CFM	\$5.75		\$18,400.00			
2	20 COMPRESSED AIR SYSTEM	120	CFM	\$191.67		\$23,000.00			
					TATAL				
	NTENIOD FIDE DOOTENTION				TOTAL	\$190,325.00			181
	NTERIOR FIRE PROTECTION: 26 SPRINKLER SYSTEM	27 000	CC.	\$2.90		\$78,200.00			
	8 FIRE ALARM SYSTEM	27,000 27,000	SF	\$0.40		\$10,867.00			
		27,000		******					
					TOTAL	\$89,067.00			
E	INTERIOR ELECTRICAL:								
	1 POWER SYSTEM	200	KW	\$233.45		\$46,690.00			
3	2 LIGHTING SYSTEM	27,000	SF	\$3.45		\$93,150.00			
3	4 SECURITY DETECTION SYSTEM	27,000	SF	\$0.17		\$4,658.00			
3	9 ENERGY MONITORING & CONTROL	10	EA	\$345.00		\$3,450.00			
	and the second	the second state of the second second		and the second second second	TOTAL	\$147,948.00			
IF 1	NTERIOR COMMUNICATION:					********			
	1 TELEPHONE SYSTEM	27,000	SF	\$0.17		\$4,658.00			
	2 INTERCOMMUNICATION	27,000	SF	\$0.35		\$9,315.00			
					TOTAL	\$13,973.00			



	NTDIV NORVA 4-11012 Lantic Division Nav		TIES ENGINEERING	COMMAND		SHEET 6 Const.Contr DATE:	DF 6 .No. 01 NDV 1984	
ROJECT: APPLIED INSTRUCTION BUILDING - P-808, FY86 MCON		LOCATION:	MARINE CORPS BA	SE, CAMP	LEJEUNE, N.C.		PRELIM	FINAL
SUPPORTING FACILITIES			MATERIAL, LABOR, VERHEAD & PROFIT		MATERIAL, LABOR, OVERHEAD & PROFIT			
ITEMS SP	QUANTITY	UNIT	UNIT		TOTAL COST	REMARKS		
A EXTERIOR ELECTRICAL:					*****************			
50 ELECTRICAL DISTRIBUTION	1,500	LF	\$146.00		\$220,000.00			
51 ELECTRICAL TRANSFORMER	500	KVA	\$34.50		\$17,250.00			
				TOTAL	\$237,250.00			
B EXTERIOR MECHANICAL:								
58 HEAT DISTRIBUTION	3,000	LF	\$80.50		\$241,500.00			
60 SANITARY SEWERS 62 WATER DISTRIBUTION	2,600	LF	\$56.92 \$32.05		\$148,000.00			
62 WATER DISTRIBUTION 65 FUEL STORAGE	4,400	LF LS	\$5,000.00		\$141,000.00 \$5,000.00			
		25	*5,000.00		45,000.00			
				TOTAL	\$535,500.00			1.56
C EXTERIOR STRUCTURES:								
68 LIFT/PUMPING STATIONS	1	EA	\$77,000.00		\$77,000.00			
	e de señio:	1. 1.2		TOTAL	\$77,000.00			
PAVING:				TUTHL	*//,000.00			
73 RDADS	12,600	SY	\$21.23		\$267,000.00			
74 PARKING	3,600	SY	\$21.23		\$76,000.00			
75 SIDEWALKS	80	SY	\$25.00		\$2,000.00			
				TOTAL	\$345,000.00			
SITE PREPARATION:								
78 STORM DRAINAGE	1,975	LF	\$51.65		\$102,000.00			
79 SITE EARTHWORK	10,800	CY	\$4.44		\$48,000.00			
B1 TOPSOIL, SEED	22,220	SY	\$1.62		\$36,000.00			
82 LANDSCAPING	1	LS	\$12,000.00		\$12,000.00			
83 SITE IMPROVEMENTS	. 1	LS	\$5,000.00		\$5,000.00			
				TOTAL	\$150,000.00			



DESIGN CONCEPTS

ACTIVITY AND LOCATION:

MARINE CORPS BASE CAMP LEJEUNE, N.C.

PROJECT TITLE:

DATE:

APPLIED INSTRUCTION BUILDING (P-808)

16 OCTOBER, 1984

USE OF DEFINITIVES AND PREVIOUS DESIGNS

No definitives or previous designs are suitable to satisfy this design requirement. Based on meetings and interviews on 5 March and 24 September 1984 with the Using Agency, the A/E (Nakazawa Corporation) obtained quantitative data from which a macro plan was developed for the entire three phase (P-808, P-809, P-810) Project. In the interest of economy, these projects are being planned as a single building with phased construction. A site plan, floor plan, and elevations showing all three phases was submitted to the Using Agency for their review and comments. The plan and elevations for phase one (P-808) submitted herewith is a unique design with provisions to attach phase two and three (P-809, P-810) with minimal modifications.

SPECIAL DESIGN CHARACTERISTICS

The proposed building is one of a three phase building program. A mini-master plan established the building massing, elevations, floor plans, and orderly additions and site development of the subsequent phases. The exterior walls consist of brick masonry, overhead vehicle doors, glazed surfaces and metal siding.

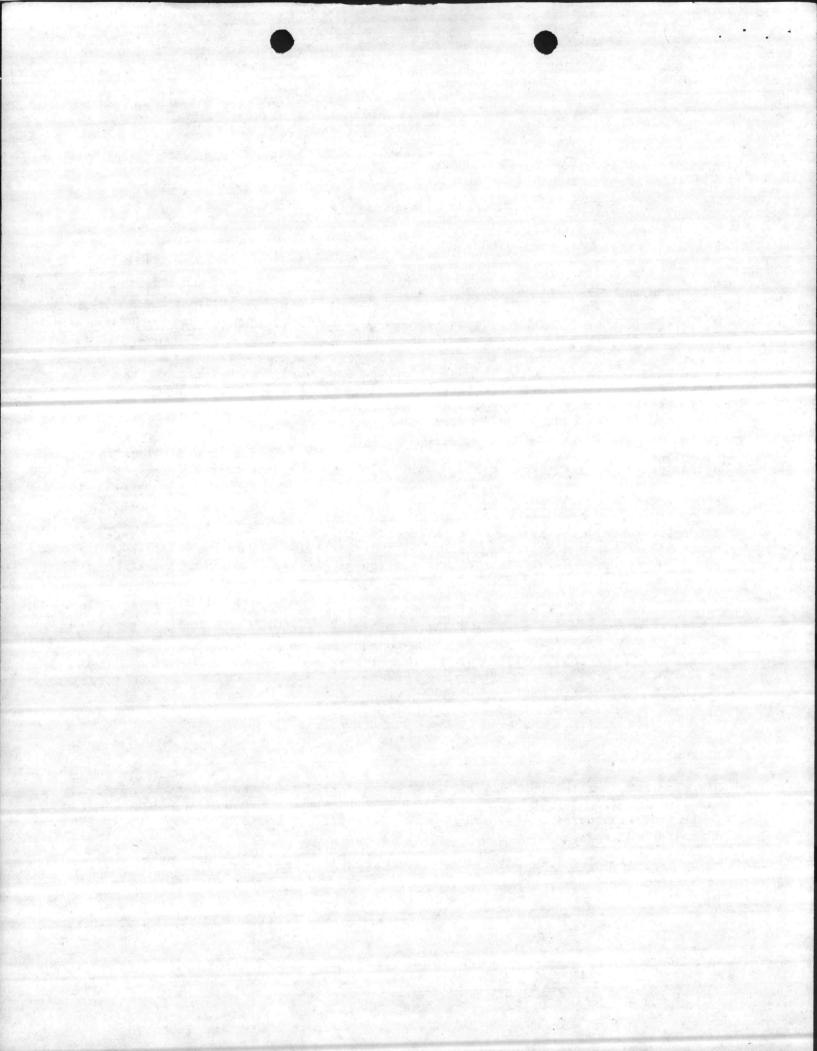
Included in Project-808 will be incoming roadways, clearing and grading of the total site and incoming utilities sized to accommodate all three building phases (P-808, P-809, P-810).

POLLUTION ABATEMENT ASPECTS OF DESIGN

This project will not cause additional air or water pollution.

SITE APPROVAL

Site approval for the facility has been granted by letter ref. LFF-1-SAV; RVP 11010/7, from Commandant Marine Corps, Washington, D.C., to Commanding General, Marine Corps Base, Camp Lejeune, N.C, ref. authorizing letter 11013 FAC 13 July 1984.



MARINE CORPS BASE, CAMP LEJEUNE, N.C. 29542

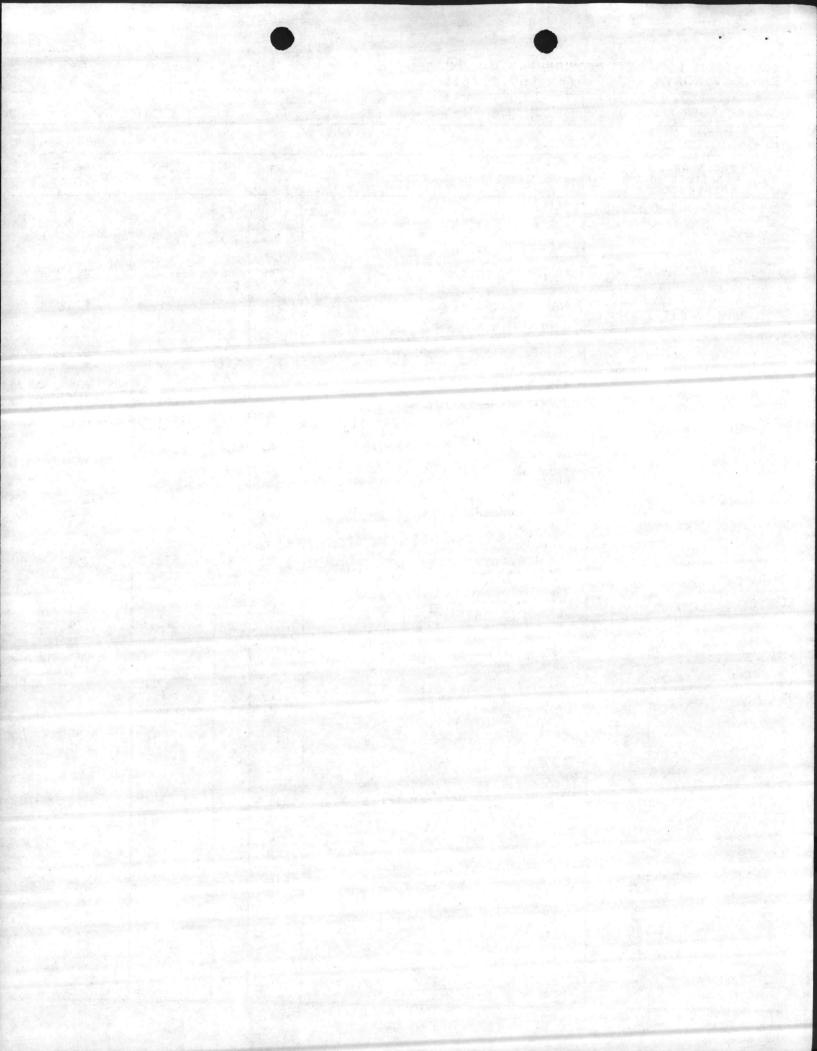
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01 NOV 1984

2. PROJECT TITLE OF-35 MECHANICS SCHOOL		a lar	C. C. S.	Second P	р. NO. Р-808
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN-	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
1. BUILT-IN EQUIPMENT TO BE MCON FUNDED:	*Venetian blinds and window screens				\$2,000.00
	*Plumbing system	1	LS		\$18,000.00
	*Sprinkler System	1	LS	In the second second	\$78,000.00
	*Telephone, fire alarm, and intercom systems	1	LS		\$12,000.00
	*Air conditioning system for all lecture type classrooms	43	TN	\$2,862.00	\$123,000.00
	*Instructor platform for all lecture type classrooms	6	EĄ	\$500.00	\$3,000.00
	*Exhaust gas removal system for the CUCV/Organizational Maintenance Laboratory	1	SYS	2	\$18,000.00
	*Deep sinks/lavatories for all laboratory spaces	8	EA	\$875.00	\$7,000.00
	*Provide for tier arrangement of seating in classrooms 1, 2, and 3	3	EA	\$3,666.00	\$11,000.00
	*Drinking Water coolers	10	EA	\$1,500.00	\$15,000.00
	*Public Address System Wireless Microphones	1	LS		\$2,000.00
	TOTAL BUILT-IN EQUIPMENT *External storage of, and central supply system for fuel in CUCV laboratory	1	EA		\$289,000.00 \$5,000.00
	*Equipment with associated instal	lation	costs		

Page 1 of

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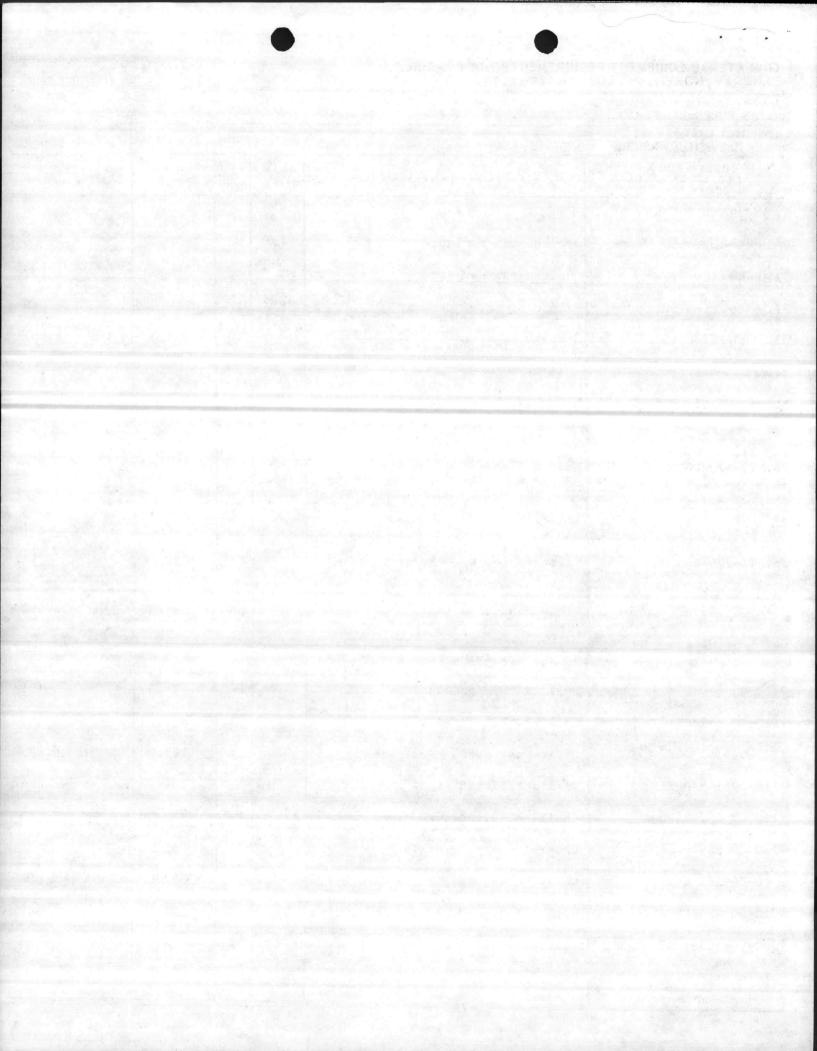
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01 NOV 1984

1. ACTIVITY (Name and Location) MARINE CORPS BASE, CAMP LEJEUNE, N.C. 29542

DF-35 MECHANICS SCHOOL		in all more in	1.000	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	P. NO. P-808
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
2. EXPENSE ITEMS:		- Carlos		The settle of	ang site anges
7110-00-132-6650	Chalkboard, Portable	1	EA	58.00	58
7110-00-843-7917	Chalkboard, Hanging	3	EA	59.00	177
7110-00-286-3798	File Cabinet, 5 drawer	1	EA	218.00	218
7125-00-269-8345	Storage Cabinet	27	EA	153.00	4,13
Brodhead-Garrett 2448 Industrial Pk. Dr. Macon, GA 31208 (912) 781-8952	Apron and Book Rack Model 120, pg 84	28	EA	82.50	2,310
Carolina Office Supply No. T5-725-465	Magnetic Board	5	EA	376.00	1,880
BMStock No. 78-6969-1889-1	Projector Stand	3	EA	115.00	34.
Carolina Office Supply No. T5-725-465	Lecternette, w/AC adapter	3	EA	97.50	29
BMStock No. 78-6969-1891-7	Podium and side table	7	EA	899.00	6,29
Carolina Office Supply No. T5-7547	Board, Dry erase magnetic, 4'x8'	6	EA	230.00	1,38
7110-00-740-8931	Desk, single pedestal	1	EA	191.00	19
110-00-759=6146	Desk, double pedestal	4	EA	302.00	1,20
110-00-143-0082	Office table 60" x 34"	77	EA	105.00	8,08
110-00-143-0821	Office table 45" x 34"	6	EA	101.00	60
7110-00-082-6226	Chair, straight, w/o arms	234	EA	32.00	7,48
7110-00-089-6791	Chair, rotary, w/arms	5	EA	51.00	25
7110-00-281-4469	Chair, drafting	54	EA	52.00	2,80
4910-00-756-0934	Work bench	52	EA	106.56	5,54
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DATE

01 NOV 1984

1. ACTIVITY (Name and Location)

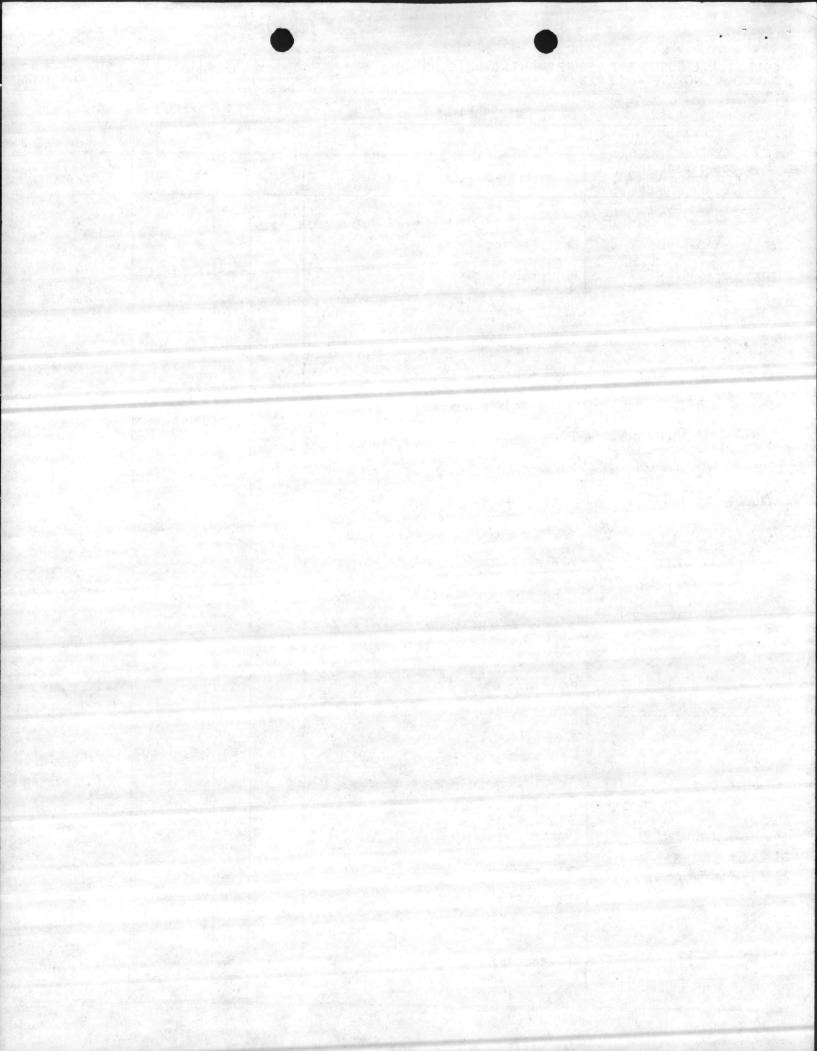
MARINE CORPS BASE, CAMP LEJEUNE, N.C. 29542

2. PROJECT TITLE OF-35 MECHANICS SCHOOL					
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT	TOTAL COST
2. EXPENSE ITEMS (cont'	<u>a)</u>		1.00		
7240-00-160-0440	Can, trash-garbage	14	EA	17.90	251
7195-00-912-9445	Bulletin board	7	EA	10.60	74
6645-00-532-3342	Clock, wall, electric	8	EA	6.00	48
4140-00-833-5068	Pedestal fan	4	EA	130.00	520
4910-00-262-0392	Jack stands, 5 ton	80	EA	18.93	1,514
4210-00-289-7233	Jack, floor, 10 ton	4	EA	584.00	2,336
4210-00-252-5343	Fire Extinguisher	17	EA	113.02	1,938
4940-00-449-6689	Parts cleaner	2	EA	322.00	644
7125-01-C00-3856	Parts Rota bin 3' diameter	1	EA	508.71	509
6130-00-106-6445	Battery charger	1	EA	359.81	360
7125-00-330-0130	Cabinet, storage	1	EA	322.35	322
OP	Draperies (office)		PR	5.2	
OP	Draperies (black out for Labs and classrooms)		PR		
	TOTAL EXPENSE ITEMS			and the	. 51,924
3. INVESTMENT ITEMS:	and the second second				17 Mar
4910-00-124-2554	Simplified test equipment for internal combustion engines	20	EA	3,695.00	73,900
	TOTAL EXPENSE ITEMS		- Angles Angles		73,900
4. APA EQUIPMENT:	None			and grade	
5. TRAINING EQUIPMENT:	(To be locally funded)				te di tette dependente de la constante de la const
	Projection screen	5	EA	65.00	325
	Projector, 35mm slide	8	EA	185.00	1,480
	Projector, overhead	8	EA	366.00	2,928

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01 NOV 1984

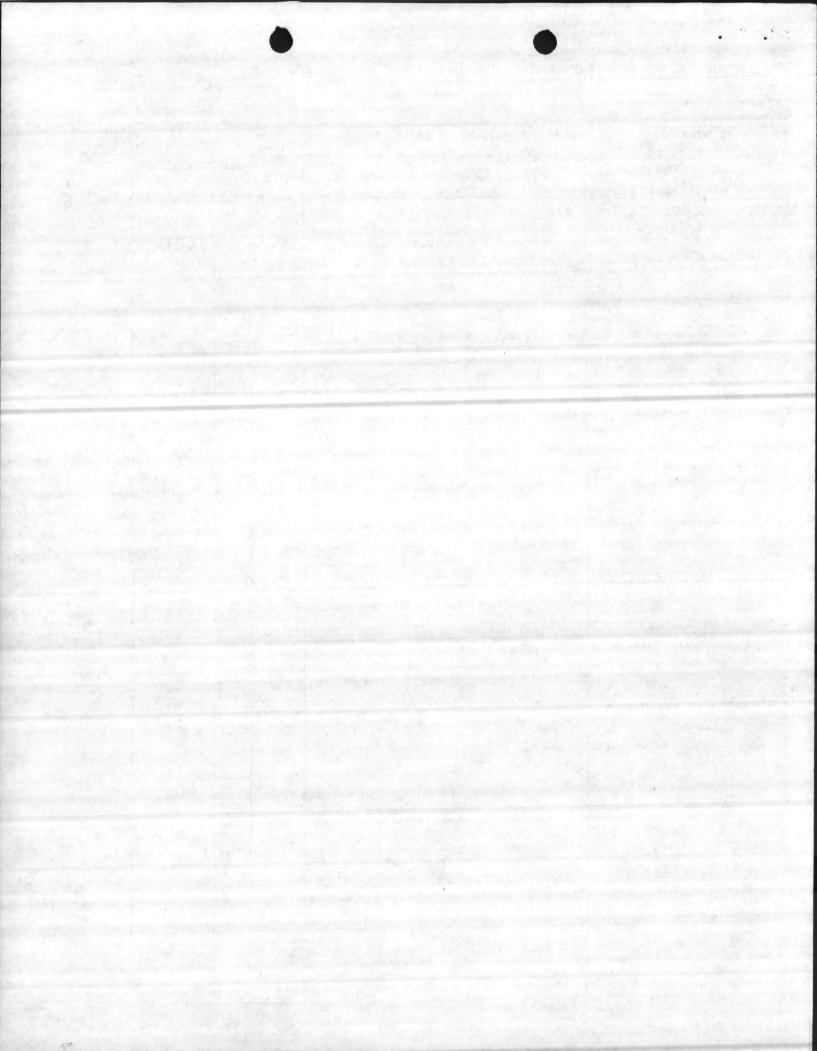
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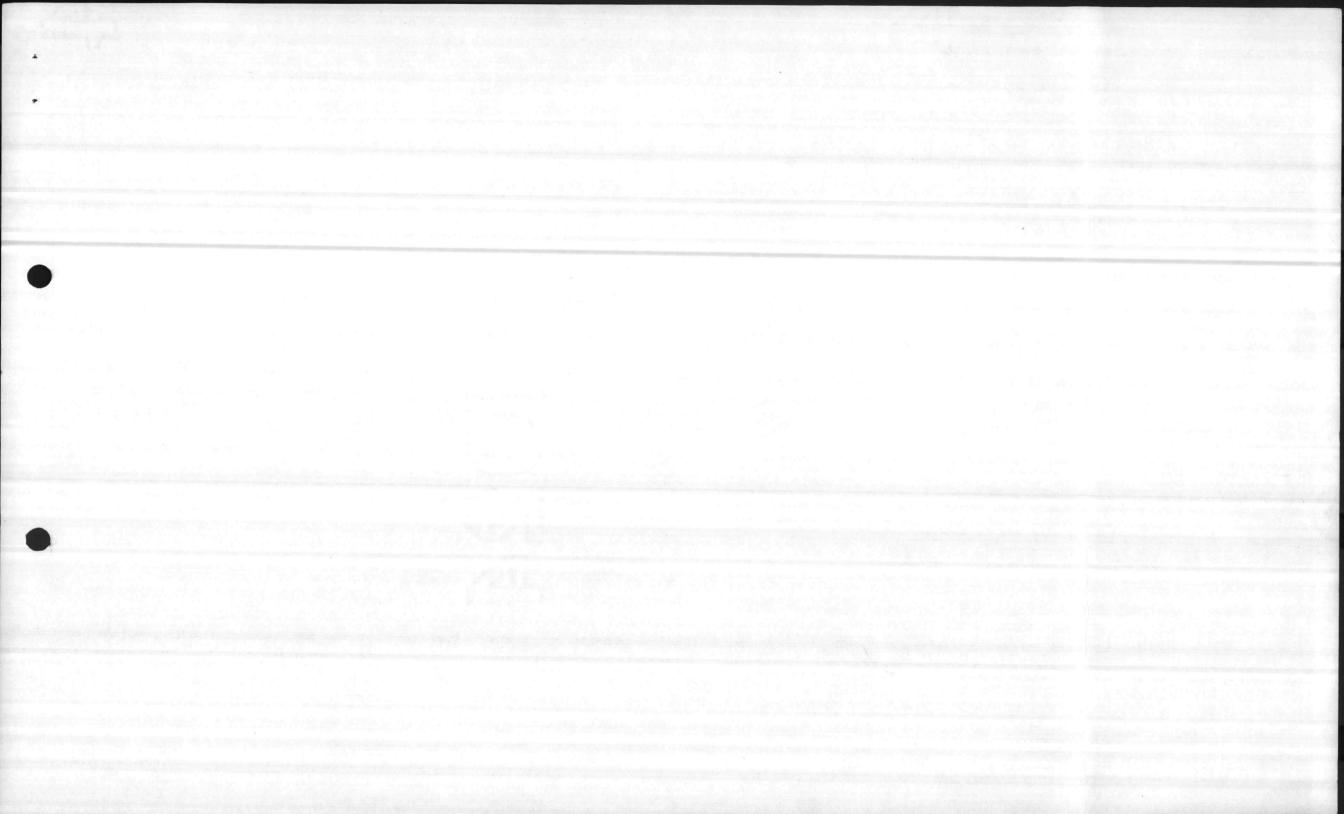
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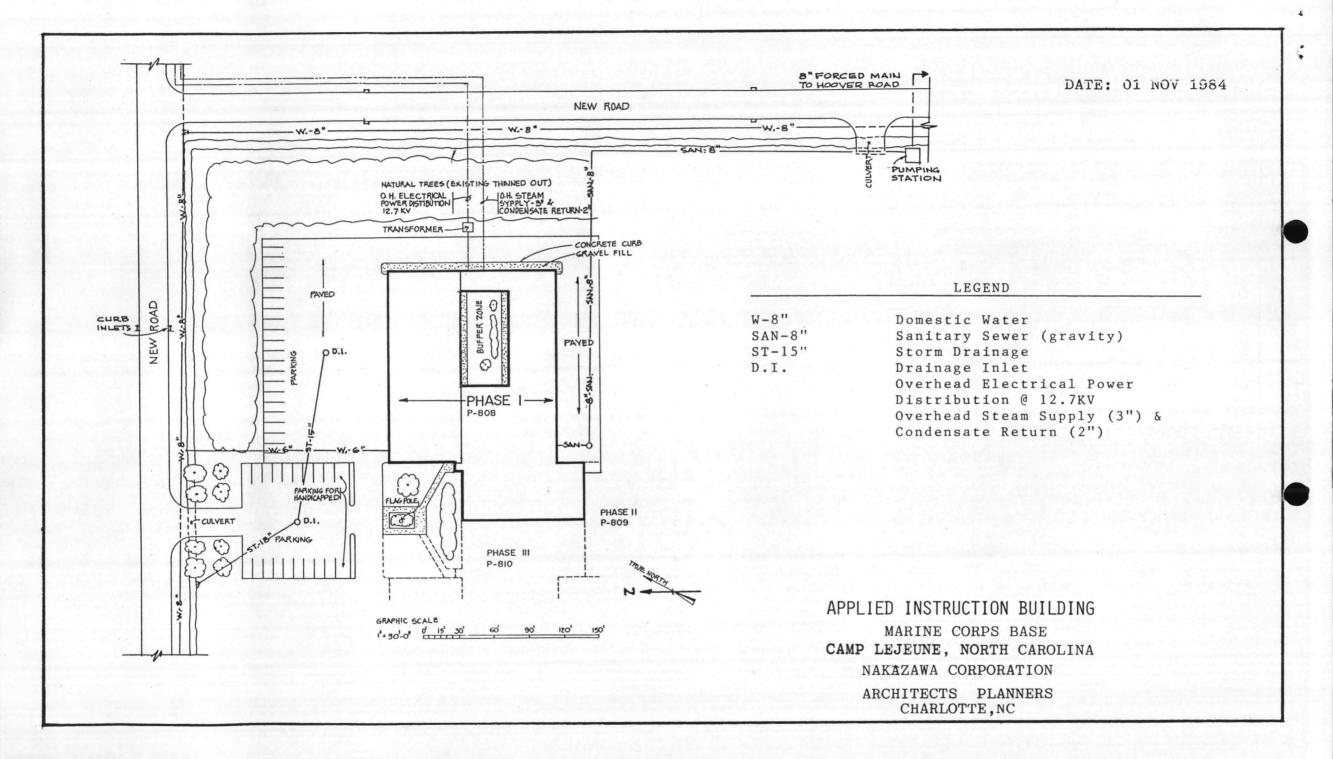
1. ACTIVITY (Name and Location) MARINE CORPS BASE, CAMP LEJEUNE, N.C. 2954

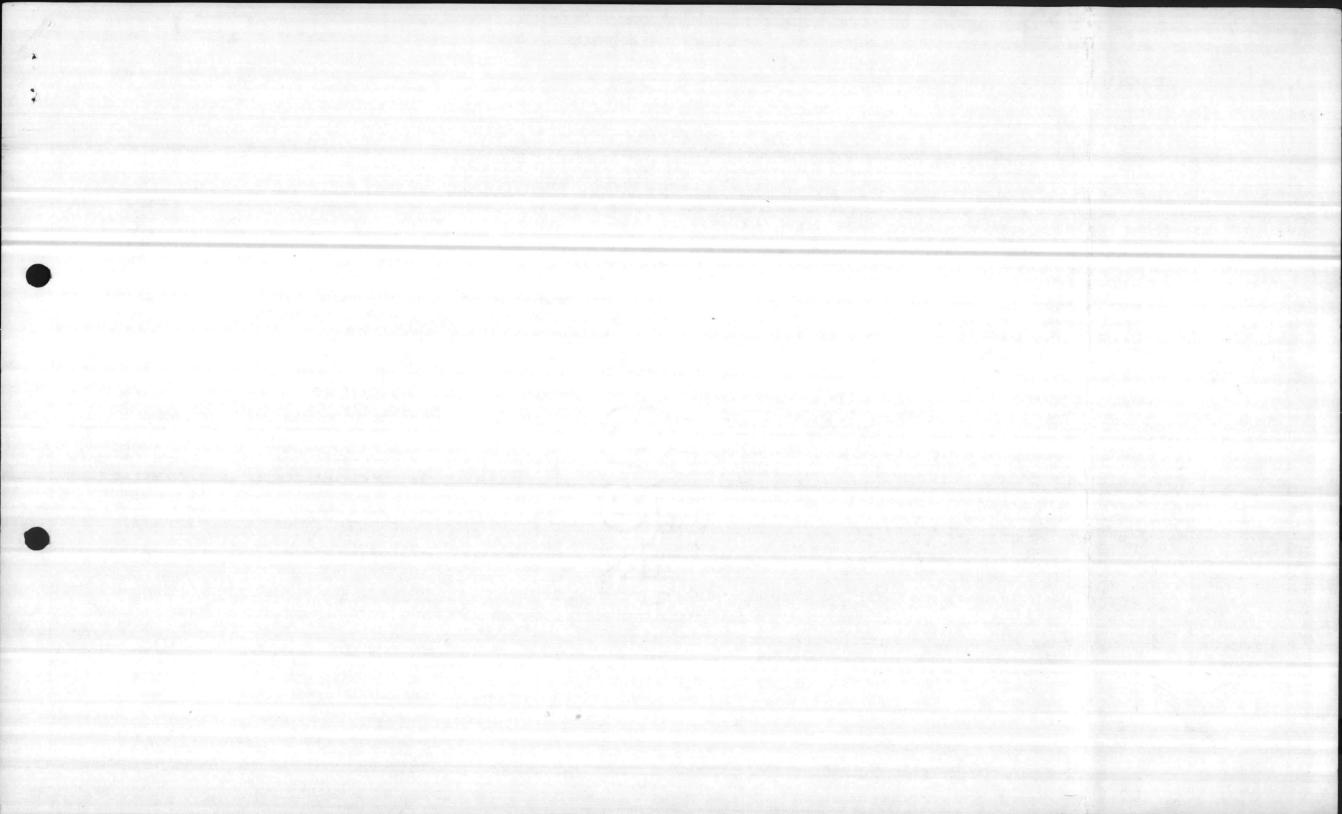
2. PROJECT TITLE OF-35 MECHANICS SCHOOL						
	COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
5.	TRAINING EQUIPT. (con	<u>'d)</u> :	e disi in	1.00		an a
		Projector, 16mm motion picture	3	EA	396.00	1,18
		Player, videocassette	3	EA	2,337.00	7,01
		Monitor, ITV	6	EA	475.00	2,85
		TOTAL TRAINING EQUIPMENT		1		15,78
		124		2,22		
					State Carl	
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MILITARY CONSTRUCTION PROJECT WITNESS DATA NAVFAC 11010/13 (Rev. 6-79) FY PROGRAM: INSTALLATION APPLIED INSTRUCTION BUILDING DATE 01 NOVEMBER 1984 MARINE CORPS BASE, CAMP LEJEUNE, N.C. P- 808 SKETCH AREA DESIGN PROGRESS INFO A&E/GF PLANS AND SPECIFICATIONS CONSTR PROVIDED CONGRESS AWARD DATE (Est.) NAKAZAWA CORPORATION NAME START DATE: NOV 85 LECEND AND 212 S.TRYON ST., SUITE 455 1. LABORATORY NO. 1 MONTHS 14 COMPLETION DATE LOCATION CHARLOTTE, N.C. 2. TRNG. AIDS 28281 COMPLETE 1 JAN 3. TRNG. AIDS AWARD 35% COMPLETION 100% COMPLETION BOD DATES COMPLETE 1 OCT 4. ACAD. CLASSROOM NO. 2 SEP 84 DEC 84 MAY 85 JAN 87 5. ACAD. CLASSROOM NO. 1 COMPARATIVE COST DATA **ENGINEERING DATA** 6. TRNG. AIDS 7. TRNC. AIDS **DD 1391 COST PROJECTION DATA** UNIT COST 6. LABORATORY NO. 2 OK AREA FACTOR: н 1 (\$) INCREASE TOTAL PROJECTION DATES (From To) 9. CORRIDOR 10. F & E LABORATORY NO. 2 UNIT COST FOR THIS PROJECT ON DD 1391 23 11. TRNG. AIDS INCREASE MONTH INDEX SOURCE 12. TRNG. AIDS . 3 22 DOD COST REVIEW GUIDE (ADJUSTED) 13. F & E LABORATORY NO. 1 14. ACAD. CLASSROOM NO. 3 OTHER PROJECTS IN THIS PROGRAM (ADJUSTED) . SITE CONDITION. SPECIAL DESIGN CONSIDERATIONS. PUTUNE 15. TRNG. AIDS TECHNICAL PROBLEMS, ETC. OTHER THAN SHOWN ON 16. TRNG. AIDS DD 1391 3 17. AGARTS 18. MECH. /ELEC. EOUIP. ROOM . 19. BUFFER ZONE 20. STUDENT'S AREA 18 21. CORRIDOR 22. MEN'S TOILET INUNA 23. WOMEN'S TOILET REPENENCE NON FLOOR PLAN 24. JANITOR CLOSET 25. CORRIDOR 26. TOOL BOOH 27. ORGANIZATIONAL MAINTENANCE LAB. BUILT IN EQUIPMENT: FEC DATA: SPECIAL OVERSEAS OVERHEAD COSTS, EXPLANATION OF DEMOLITION SCREEN FOR MECH BOUN METAL PANEL CLASS. • INI. GLASS FACE BRICK FACE BRICK SCREEN FOR MECH. EQUIP EAST ELEVATION SKYLIGHT-NEDLANEL NYTTTTTY I 0 -NOLLIUT POOR HOLLOW METAL NORTH ELEVATION CETE GRAPHIC: SCALE IN FEET FACE BRICK W-1 PREPARED BY: Name APPROVED BY ASSISTANT DIVISION DIRECTOR: CODE INITIALS Extension







UNITED STATES MARINE CORPS Marine Corp Ease Camp Lejeune, North Carolina 28542-5000

> 6280 FAC 2 3 OCT 1984

From: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejcune

To: Public Works Officer

- Subj: ENVIRONMENTAL REVIEW OF REVISED \$ITE LOCATION, P-808, OF-35 MECHANICS SCHOOL, INCR 1
- Encl: (1) Preliminary Environmental Assessment, P-808 dtd 13 Jan 82 (2) Revised Site Location Map

1. The environmental impacts associated with construction of the project at the site described in enclosure (1) are similar to the impacts at the site in enclosure (2). The primary environmental concerns to be addressed in project planning and design are the erosion controls and storm water runoff and drainage due to the limited natural drainage of the site. Further, the harvesting of commercially valuable timber from the site must be scheduled upon receipt of the 35% design drawings.

2. In summary, no significant environmental impact is anticipated with the revised site location provided a State-approved sediment control plan is obtained and the timber harvest is pursued. Request that upon receipt of the 35% drawings, coordination be completed with Mr. Julian Wooten, Natural Resources and Environmental Affairs Division, ext. 5003/2195, on the timber harvest.

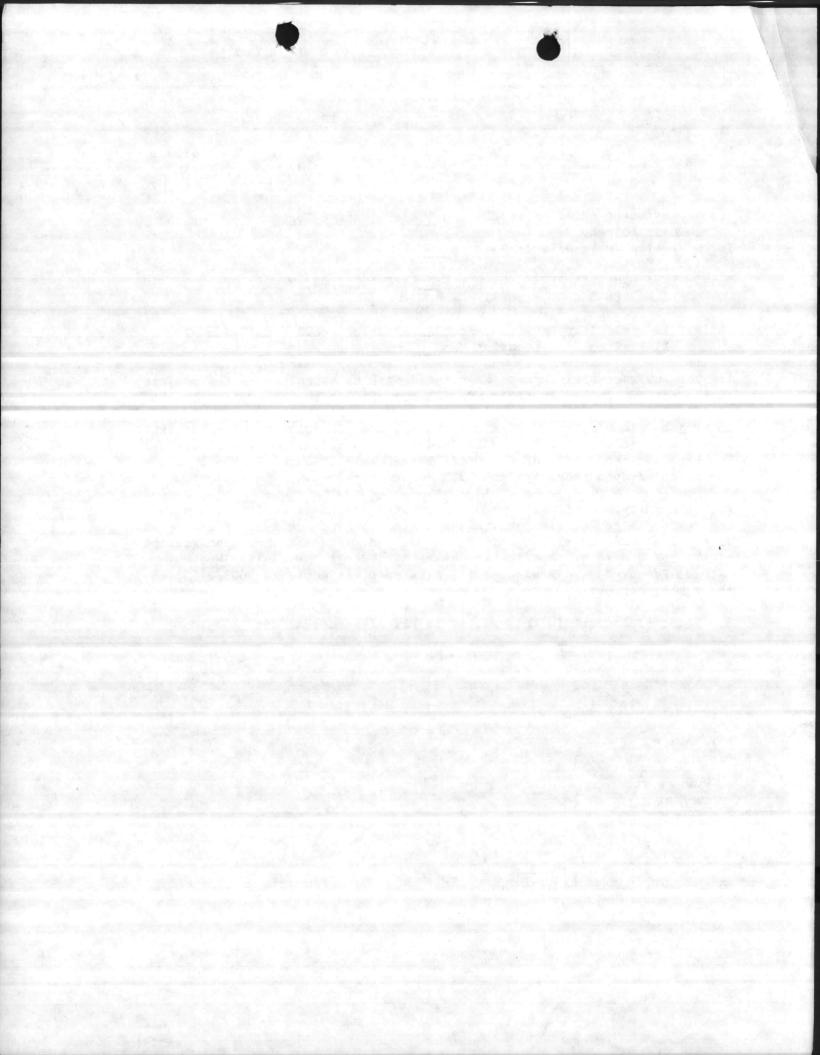
3. Point of contact in this matter is Mr. Alexander at ext. 3034.

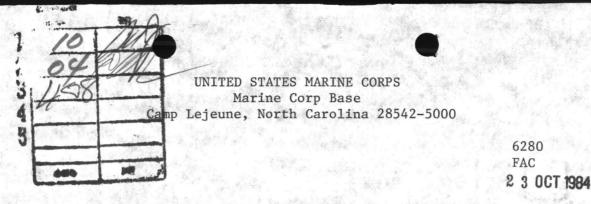
J. G. FITZGERALD By direction

Copy to: NREAD

> Blind cy to: Env Engr Constr Coord.

Writer: J. G. Fitzgerald Typist: R. DeNoi, FAC, 19 Oct





- From: Assistant Chief of Staff, Facilities, Marine Corps Base, Camp Lejeune
- To: Public Works Officer
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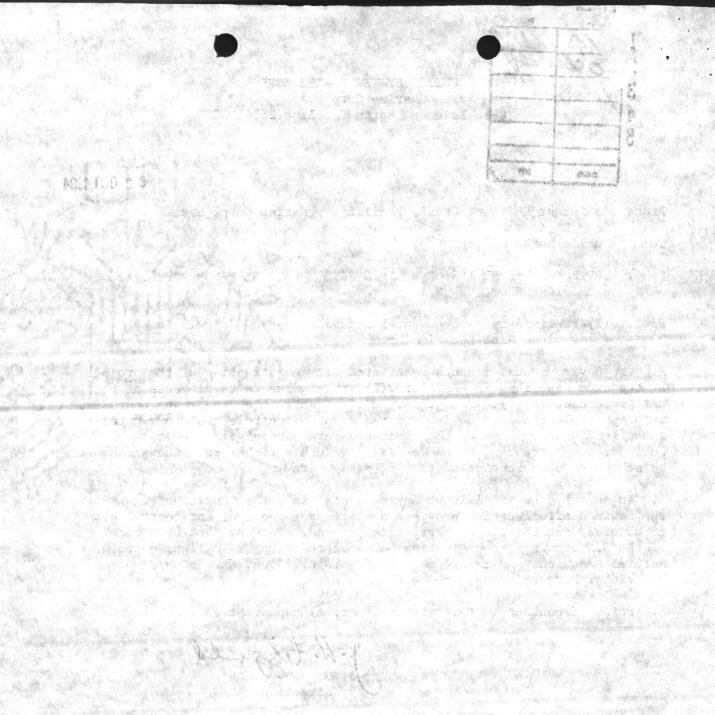
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J. G. FITZGERALD By direction

Copy to: NREAD

11/19/19





UNITED STATES MARINE CORPS Marine Corps Base Camp Lejeune, North Carolina 23542

ENVIRONMENTAL IMPACT/ENVIRONMENTAL ENHANCEMENT REVIEW BOARD MEETING OF

13 Jan 1982

ADDENDUM TO PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)

SUBJ: PEA - P-808, OF-35 Mechanics School, MCSSS (1st Incr.)

BOARD ACTION

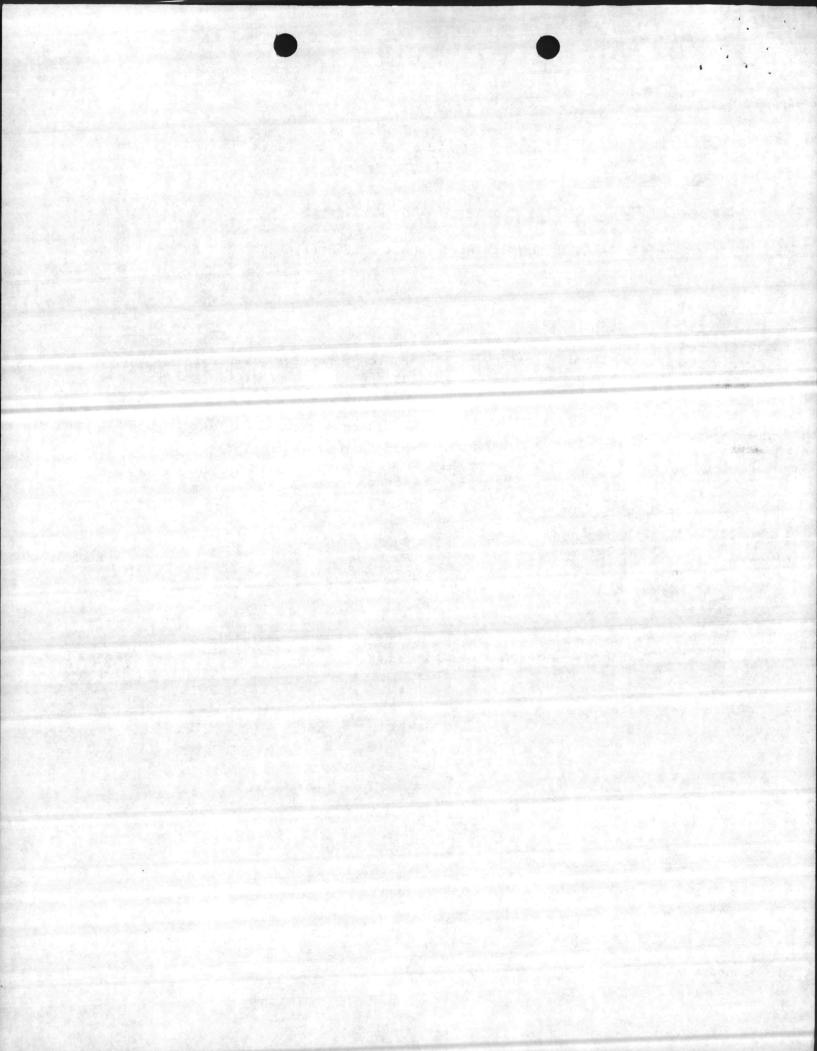
X

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

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

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

Copy to: EIA File PWO BMO



1. Project: P-808, JF-35 MECHANICS SCHOOL, MCSSS (INCREMENT I)

a. <u>Project Description</u>. Construct permanent applied facility with piles, reinforced concrete foundation, floors, masonry walls. This includes built-up roof ovens insulation and interior support system; i.e., air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work and utilities connected.

(1) Adequate facilities are required for formally instructing Marines in 2nd, 3rd, and 4th echelon maintenance of Marine Corps motor transport equipment. Further, consolidating the instruction in one facility will reduce the span of control, reduce lost time resulting from moving from one applied instruction facility to another. Currently, facilities are located in excess of one mile from each other.

(2) <u>Impact if not provided</u>. If not provided, Marine Corps Service Support Schools will continue to instruct 700 students per year in inadequate i.e., over 100 degrees F temperature in classrooms and applied laboratories during the summer; under freezing weather during the winter (some chill is taken during the winter with WWII vintage space heaters. Additionally, vehicles have changed in terms of size ind technological complexity requiring a greater base of knowledge to be an effective mechanic.

(3) <u>Facilities required</u>. 26, 961 square feet of applied academic school area, including flexible pavements, sidewalks, security fencing, lighting, utilities, and site improvement is required

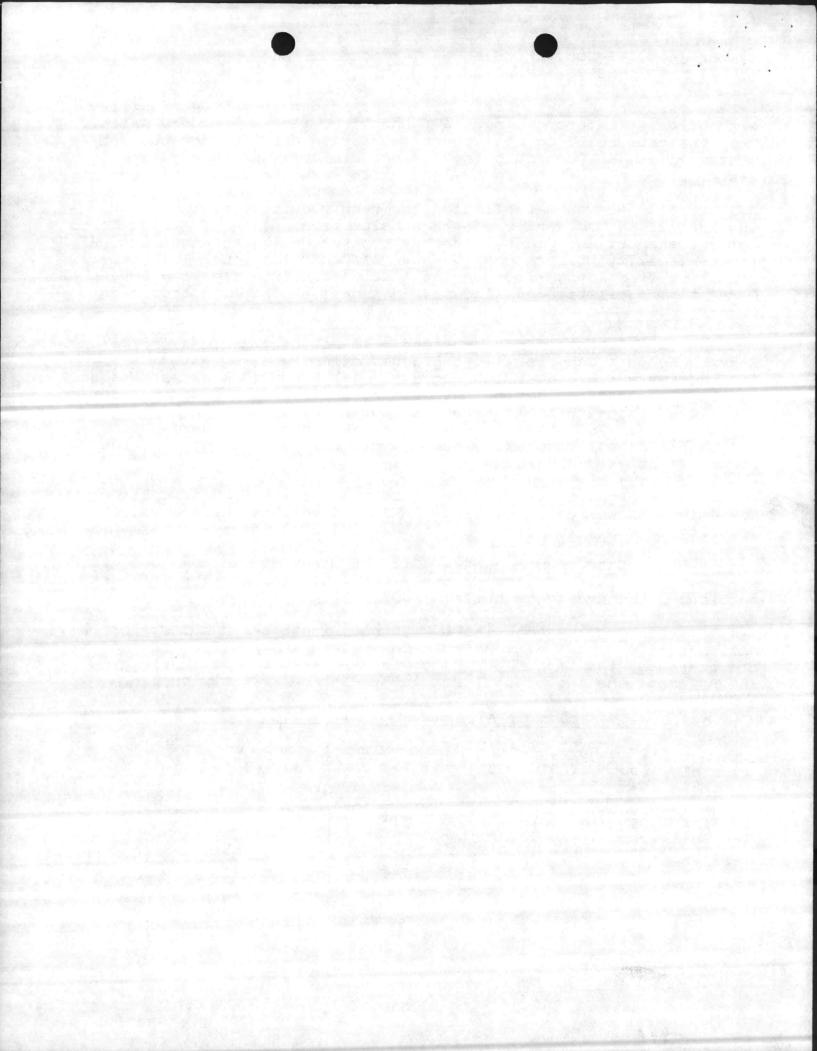
(4) <u>Site requirements</u>. Site requirement include good drainage, potable water, sewage disposal, and soil structure sufficient to permit a structure to be built.

(5) <u>Ongoin</u> Activities. In most instances the instruction will not affect the environment. In certain instances where engines are operated, the impact on the environment, fumes, will be minimal. In any case, the impact will not be more than currently ongoing.

b. Consideration of Alternatives and Site Selected.

(1) Other locations aboard Camp Johnson were considered possible, South of Bldg 131, south of Building 120.

(2) The primary site was selected based on walking distance to billeting, dining facilities, and other resources, e.g., printing, classrooms, PX, laundry, Bank, athletic, headquarters, and supply.



c. Compliance with Federal, State, and Local Environmental

egulations and Guidlines.

(1) Aplicability of applicable laws

(a) Endangered Species Act. Use of the cleared area by endangered species of animals is insignificant. The project has no apparent beneficial or adverse impact on any endangered or threatened species.

(b) <u>Clean Water Act</u>. All sanitary waste will be disposed in the Base sanitary sewer system. This project will not cause additional water pollution.

(c) <u>Clean Air Act</u> Not applicable. This project will not cause additional air pollution.

(d) <u>Coastal Zone Management Act</u>. There is no direct or indirect impact on tidal marshes, beaches or other protected areas.

(e) Archeological and Historic Preservation Act. There are no structures in the immediate area which have been identified on state or national registers of historic sites. There are no visible remnant structures of homesites, artifacts, etc. which indicate that the site is covered by this Act.

(f) North Carclina Erosion and Sedimantation Regulation. An erosion and sediment control plan will be incorporated into the project plans and specifications as required.

(g) <u>Hazardous Materials</u>. These materials will be managed and disposed of in accordance with Marine Corps Base Order 11090. 1B

(h) Protection of Wetlands, Executive Order 11990. Not Applicable.

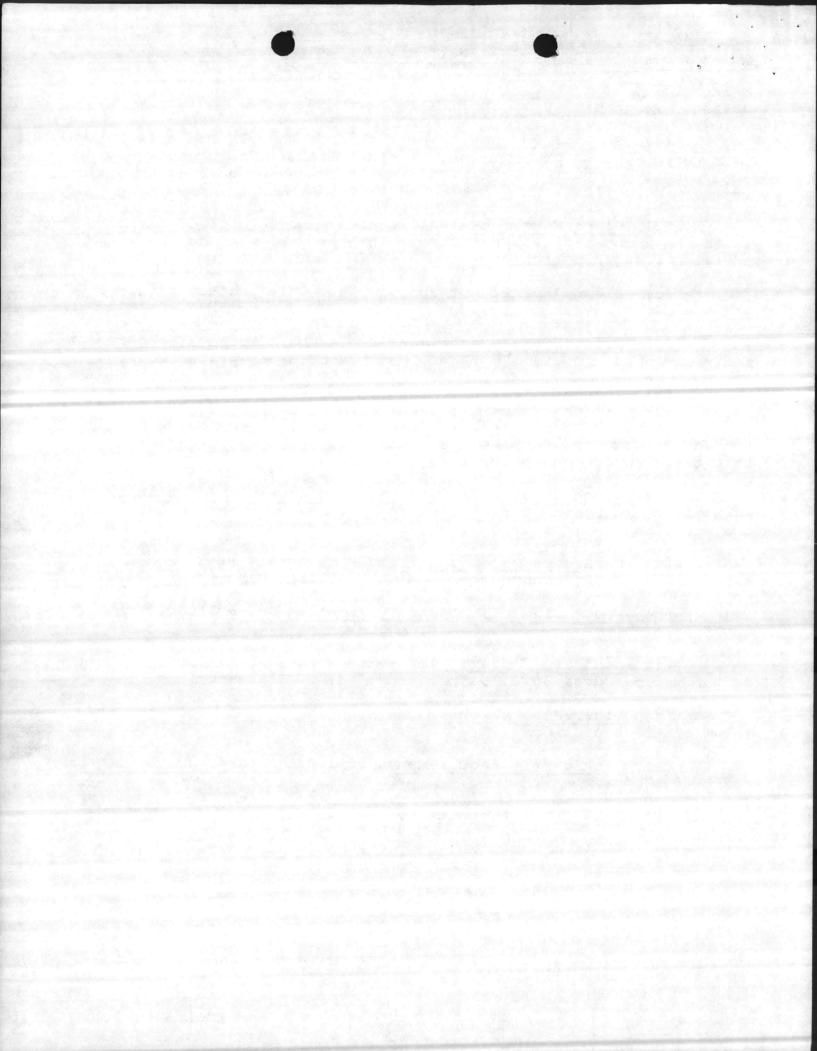
(i) <u>Sanitary Wastes</u>. All solid wastes will be disposed of at the Marine Corps Base, Camp Lejeune, N. C. Sanitary Landfill.

(j) Other Regulations. The proposed project does not involve other regulations.

(k) List permit requirements of local, state, or regulatory agencies. None

2

(1) Site. See Appendix A.



d. Impact on other Base functions and missions.

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(1) <u>Impact on other Base functions</u>. the proposed site will impact on the special service function. That is, it will be located on athletic fields S-M-165 and S-M-186.

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(2) <u>Master Plan</u>. This project was discussed with the Design Director, Public Works Department; the Director advised that the project was consistent with the existing Master Plan and projected use of the surrounding area.

and test itesti it this contained asserned or contractors

ke <u>Arcostinggodi and Sitterio Preservation ()</u>
ho structure⁽ in the unreducte area chick have deer invition
state or matches theplorees of historic sites. There ere f
remnant structures of horestite.vartitects. etc. which inti-

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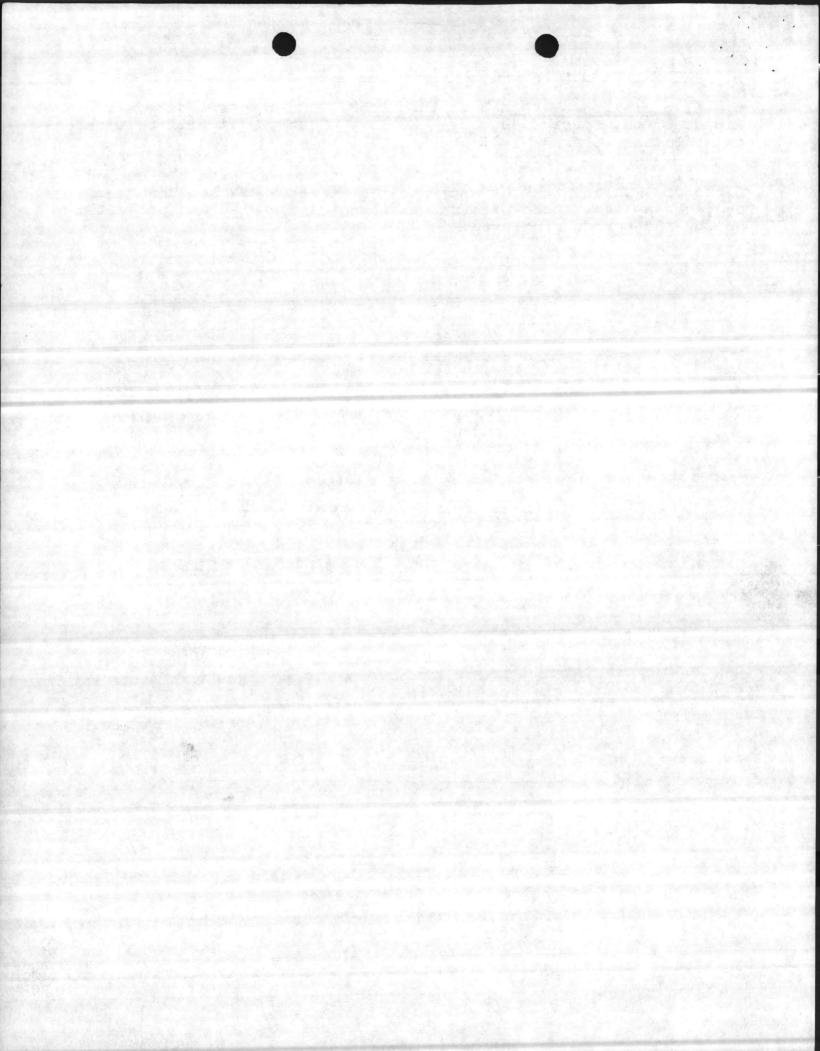
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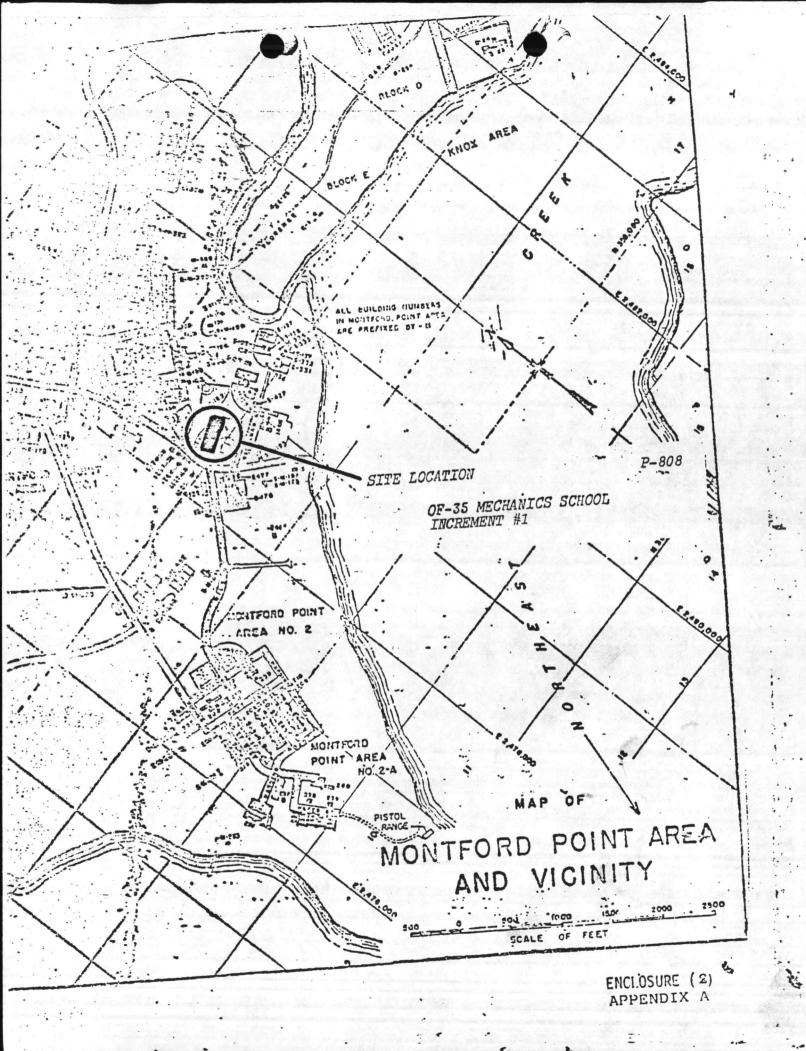
that the site is covered for this Act

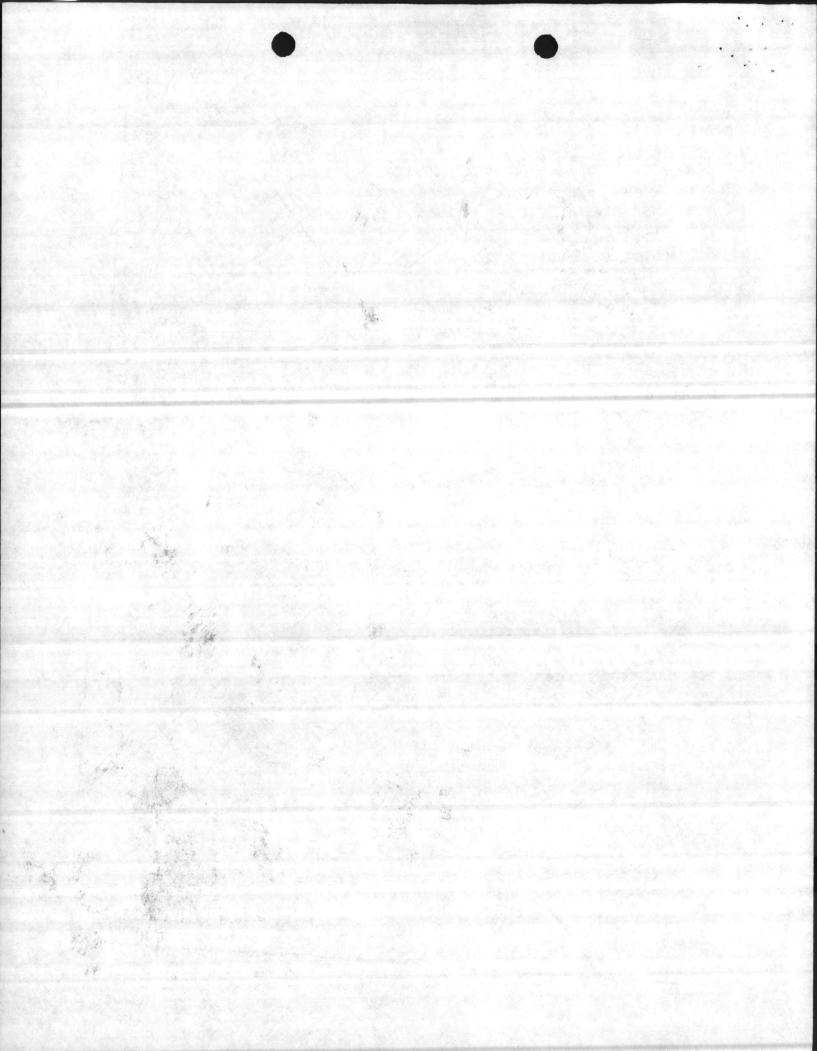
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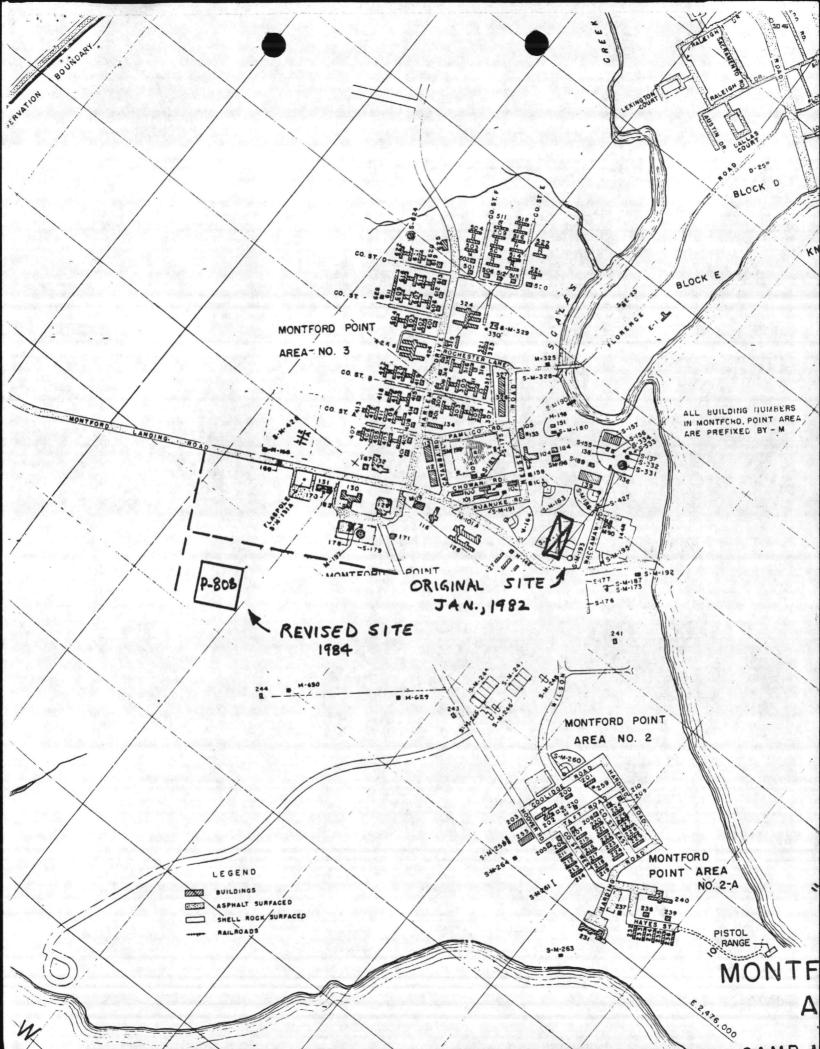
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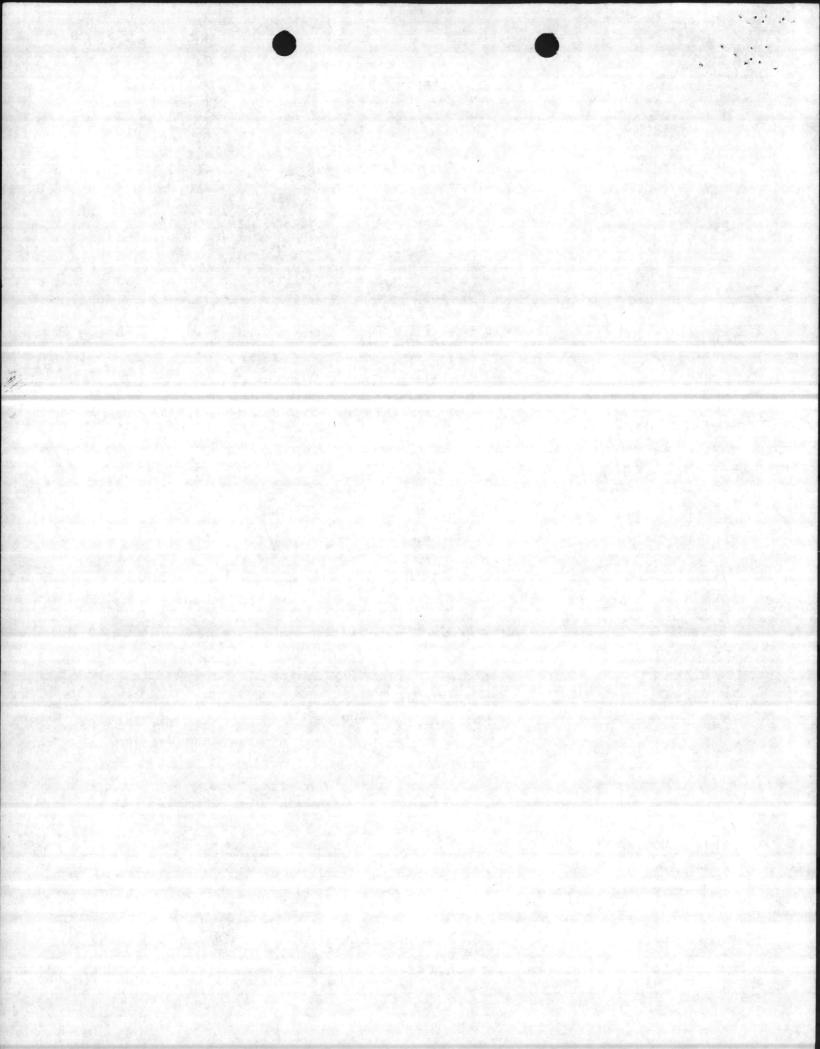
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MINI-MASTER PLAN REPORT



PROJECTS P-808, P-809 & P-810 APPLIED INSTRUCTION BUILDING MARINE CORPS BASE, CAMP LEJEUNE JACKSONVILLE, N.C.

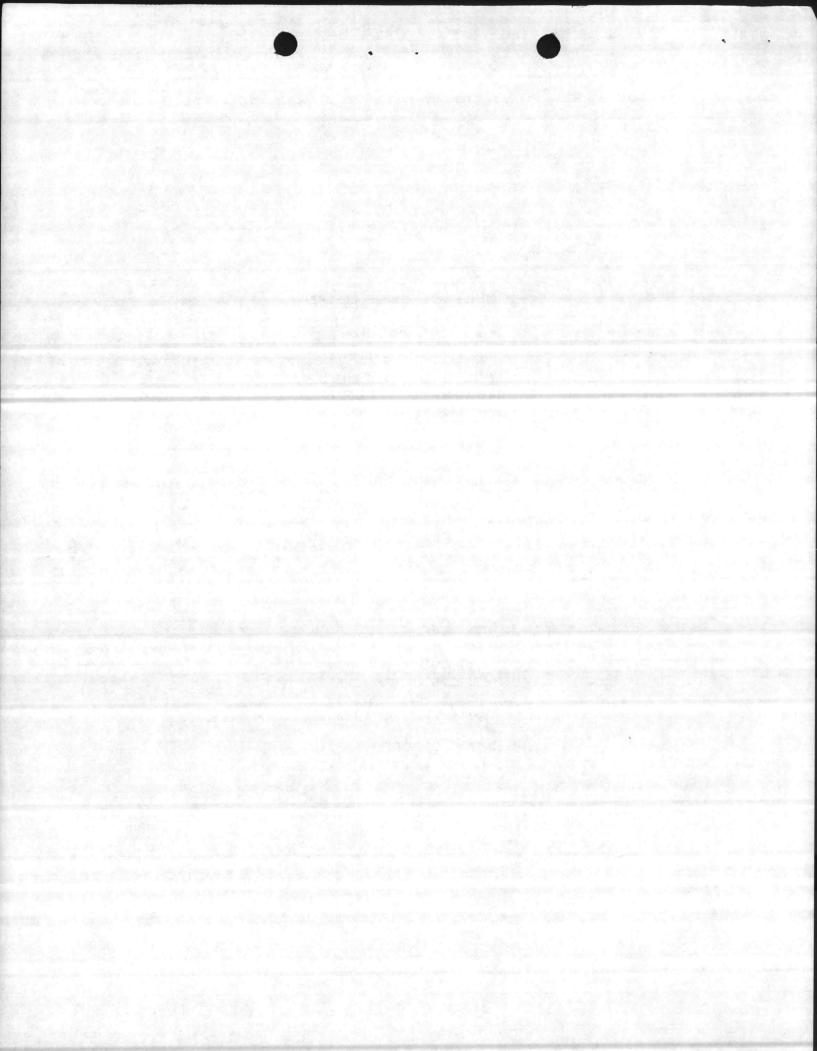
ADMINISTERED BY:

ATLANTIC DIVISION NAVAL FACILITIES ENGINEERING COMMAND NORFOLK, VIRGINIA 23511

PREPARED BY:

NAKAZAWA CORPORATION ARCHITECTS & PLANNERS 212 S. TRYON STREET CHARLOTTE, N.C. 28281

DATE: 01 DECEMBER 1984



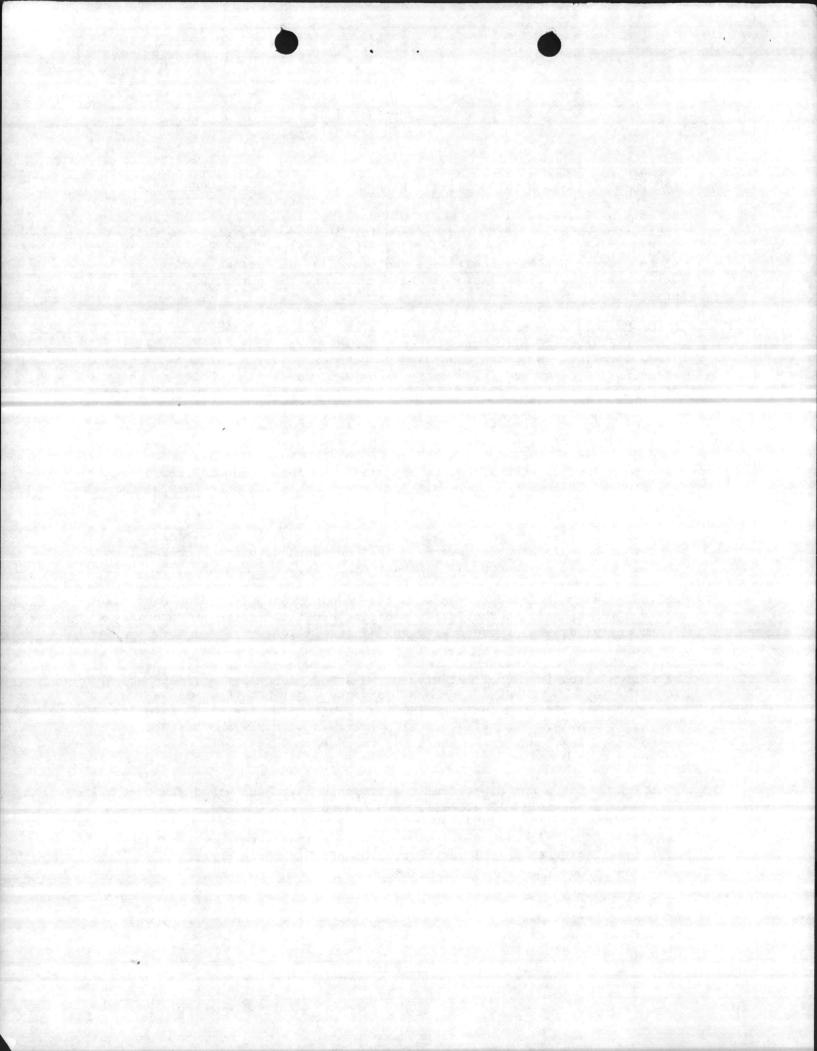
MINI-MASTER PLAN REPORT Contract N62470-84-C-6812

- PROJECT: Current program calls for providing 26,961 SF of applied/ academic school for Motor Transport School, Marine Corps Service Support School, as Increment I of a total planned 99,079 SF of training facilities. Objective of the Mini-Master Plan is to develop the entire 99,079 SF project (three phases), insuring functional and orderly phasing of the future building additions, and providing sufficient sizing of utilities in the first increment to accommodate the entire 99,079 SF project.
- 2. PROGRAMMING: Meetings and interviews with the Using Agency were conducted at the Public Works Office, Marine Corps Base, Jacksonville, North Carolina, on 24 September and 24 October 1984, to obtain quantitative data from which macro plans were developed. Prior to the 24 September meeting, pre-schematic plans were prepared by the A/E, based on early program data and telephone conversations with Public Works and the Using Agency. Following the 24 September meeting, site survey and soil borings were conducted to accurately locate the proposed site, new road work and soil conditions. Upon reviewing the field data and incorporating comments of the 24 September meeting, a second submission (9 October 1984) of the mini-master plan documents was made for further review.

On 24 October 1984, a meeting was held at Public Works for a final review of the planning documents. Final comments were incorporated into the plans. See Appendices A & B (Meeting Notes).

- 3. DESIGN: There was concurrence that the modular concept presented by the A/E was functional, aesthetically pleasing, cost effective and provided for orderly phasing of the future building additions.
- 4. SITE: The project is located in a remote and wooded area of the base, several hundred feet from existing paved areas and utilities. Appendix D (Civil), reports the existing conditions and describes the proposed work for roads & parking, Water Distribution, sanitary sewers, and storm drainage. The proposed site was also reviewed with Harland Bartholomew & Associates, Inc., master planners for the Marine Corps Base. See Appendix C.
- 5. UTILITIES: Steam and electrical requirements have been sized to accommodate phases I, II and III. See Appendix E.
- 6. DRAWINGS: The following drawings have been prepared to show the total development of the Applied Instruction Complex in three phases.

SK-1 Master Site Plan
SK-2 Building Site Plan
SK-3 Road Extensions
SK-4 Floor Plan, Phases I, II & III
SK-5 Building Elevations





BASIS OF DESIGN - CIVIL APPLIED INSTRUCTION BUILDING CAMP LEJEUNE, NORTH CAROLINA

1. GENERAL

This project is located in a generally remote and wooded area of the base several hundred feet from existing paved roads. This will require long access roads to be constructed into the site for ingress and egress and will also necessitate long runs of associated utilities.

2. ROADS AND PARKING

Preliminary soil investigation reports indicate poor conditions and some extra preparation will be necessary for subgrades. All roads and parking lots will be constructed on a suitably prepared subgrade with a stone base and asphalt paving. Curb and gutters will be used within the parking lots but no curbs or sidewalks will be used on the ingress and egress roads.

3. WATER DISTRIBUTION

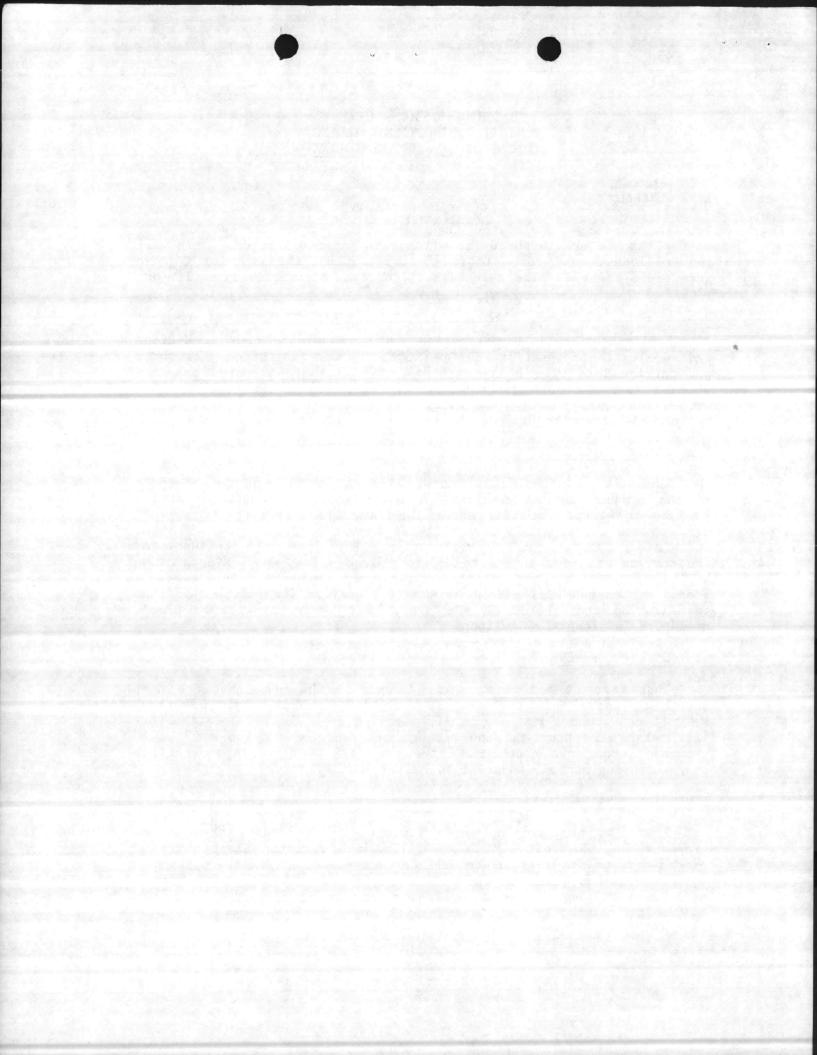
There is an existing 10" water line on Hoover Road to the south of the project and an existing 8" water line along Montford Landing Road to the east. We will serve the new complex by connecting an 8" line to the existing 10" water line at Hoover Road and running to the north along the new road to the complex. This line will continue pass the complex and loop back into Montford Landing Road where a connection will be made with the existing 8" line. This will provide a complete looped system and will also provide water service for future buildings that may be constructed in the area. Fire hydrants will be placed at intervals along the new loop.

4. SANITARY SEWERS

There are no existing gravity lines in the area that are deep enough to serve this new complex without a sewage pumping station. We will construct a new sewage lift station in a central location that will serve all phases of the planned construction and run a 4" or 6" diameter force main south along the new road to Hoover Road and then to an existing manhole adjacent to Building M129.

5. STORM DRAINAGE

There is an existing large drainage ditch running through the property and this ditch will be filled and rerouted along the edge of the new roads. Drop inlets will be constructed within the parking lot with underground piping to the existing ditch outfall. Roadside ditches will be used along the new access roads for drainage.



BASIS OF DESIGN - MECHANICAL/ELECTRICAL APPLIED INSTRUCTION BUILDING CAMP LEJEUNE, NORTH CAROLINA

STEAM: Sizing of steam requirements for phases I, II and III. (includes heat loss and ventilation).

Phase II	400#/Hr
Phase II & III	1,100#/Hr

 TOTAL REQ'D
 1,500#/Hr (5# Steam)

Pipe Sizes - 3" diameter supply 2" diameter condensate return

ELECTRICAL: Electrical power requirements for phases I, II and III.

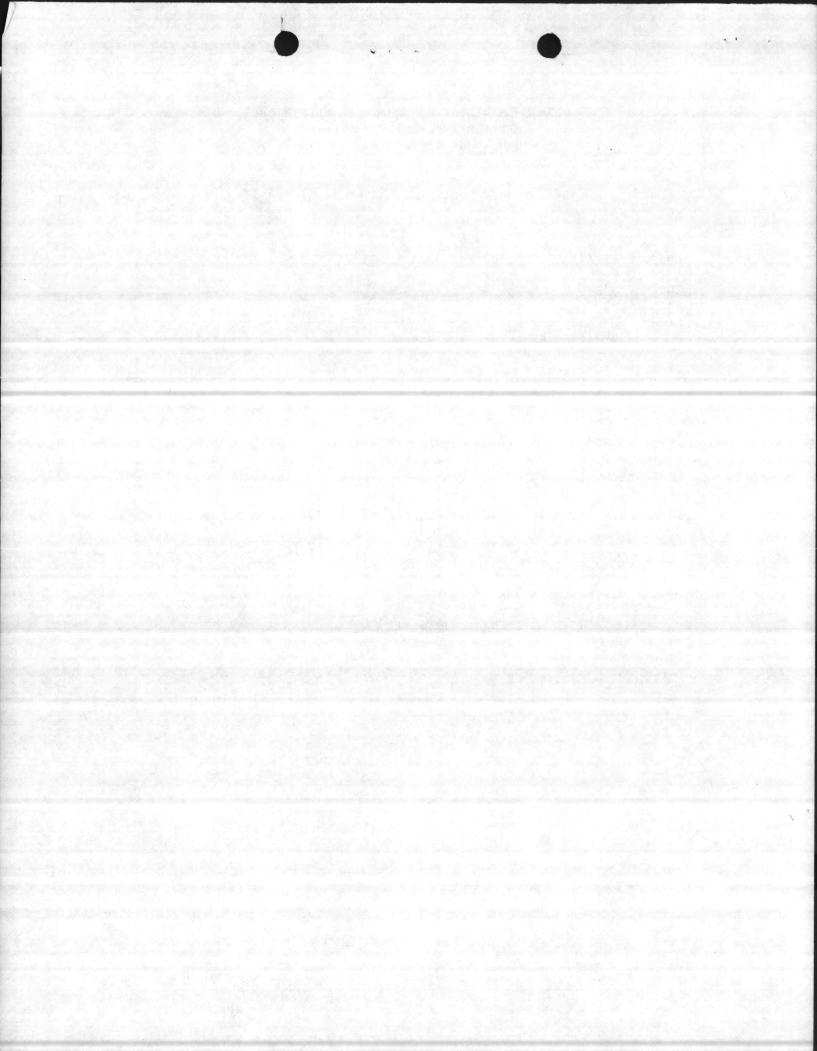
Phase I:	$HVAC - 43T. \times 2.1KW =$	90KW
	Lighting 27,000SF x 2.0W/SF =	54KW
	Power 27,000SF x 1.0W/SF =	27KW
	Equipment (Pumps, Etc.) =	10KW
	TOTAL PHASE I	181KW
Phases II	& III: HVAC - 130T.x 2.1KW =	271KW
	Lighting 72,000 x $2.0W/SF =$	144KW
	Power 72,000 x $1.0W/SF =$	72KW

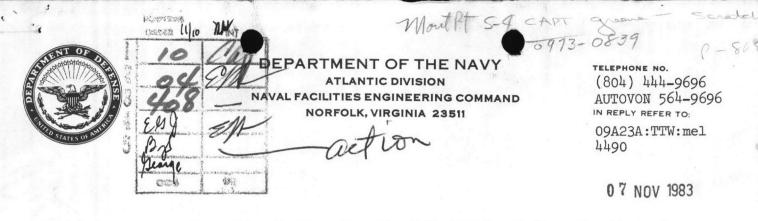
TOTAL PHASES II & III 487KW

Assume Diversity of 75%

	Phase I =	181KW
Phases	II & III =	487KW
	TOTAL	668KW

 $6 8 \times 75\% = USE 500KVA$





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

- Subj: Collateral Equipment Requirements for FY 1986 Military Construction Project P-808, Applied Instruction Building (oF-35 Machanic School)
- Encl: (1) Guidelines for Developing Collateral Equipment Requirements for MCON Project Engineering Documentation
 - (2) Sample Collateral Equipment List
 - (3) Copies of NAVFAC Form 5ND LANTDIV 4-11010/6, Collateral Equipment Requirements (Initial Outfitting) (6 copies)

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

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

3. It is requested that requirements for the subject project be submitted on enclosure (3) to this Command, attention Code 09A23. This submittal should be forwarded in time to be received by 28 May 1984. Due to the scheduled preparation of the PED in the near future, compliance with the submission date is requested.

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GUIDELINES FOR DEVELOPING COLLATERAL EQUIPMENT REQUIREMENTS FOR MCON PROJECT ENGINEERING DOCUMENTATION

1. Equipment shall be limited to that which is required to achieve the facility's designed functional capability. To facilitate identification of requirements and also ensure that equipment can be effectively and efficiently accommodated within available space, it is recommended that a floor plan showing equipment location be prepared. When available, a copy of such floor plans should be forwarded with requirements submission(s).

2. Equipment shall be selected which is, to the maximum possible extent, available from the Federal Supply System, General Services Administration stock, Federal Prison Industries or other established Government sources. Military and/or federal specifications shall be applied, whenever possible, for items not available from an established federal source. When procurement from commercial sources is necessary, adequate descriptive details should be provided. Vague descriptions with unrealistic cost estimates are not acceptable. It is recommended that the procurement source data such as GSA supply schedules, manufacturer's catalogs, or other information which is available in the activity supply office be utilized in preparaing requirements lists.

3. The following information is provided to facilitate identification and separation of equipment requirements by collateral equipment categories.

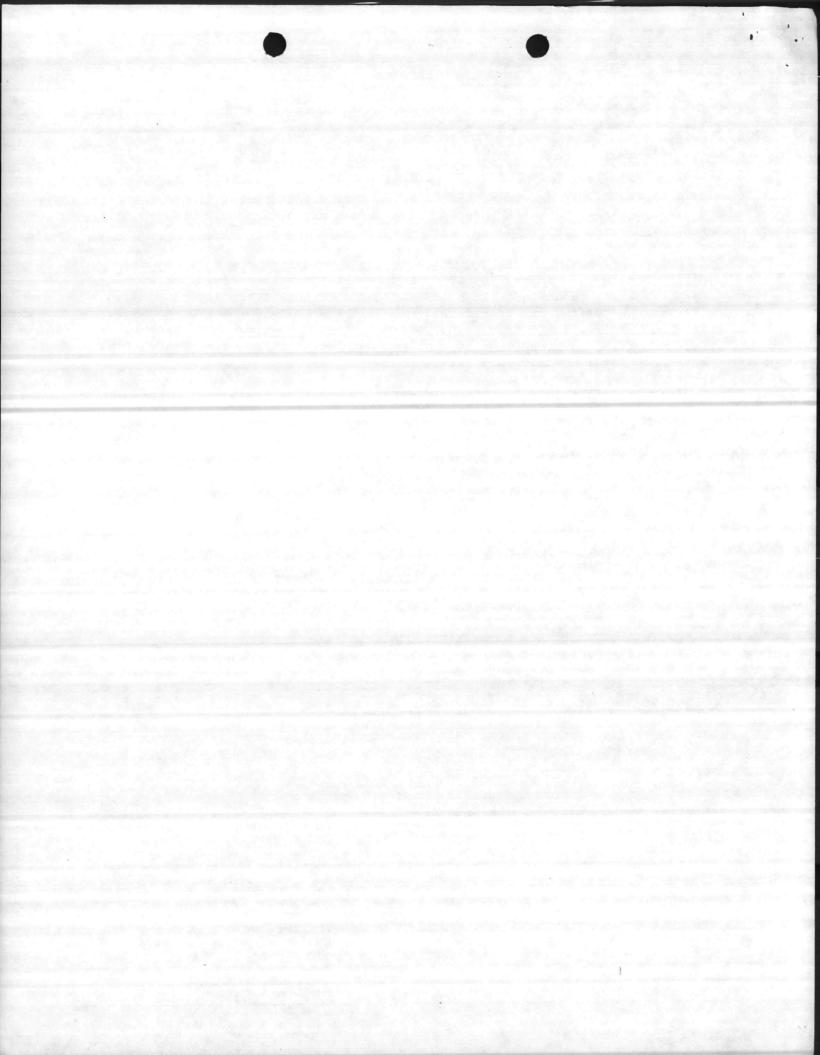
a. <u>Built-in Equipment to be Funded with Military Construction (MCON)</u> Funds

Normally, the costs of all items of equipment which are permanently builtin or attached to the structure, including items with "fixed" utility connections, are funded from MCON appropriations. "Fixed" means fastened to walls, floors or ceiling, or to steam, gas, vacuum, plumbing, or electrical lines in a permanent manner. The following items are typical examples:

Furniture, cabinets & shelving, built-in Venetian blinds & shades Window screens & screen doors Elevators and escalators Drinking water coolers Telephone, fire alarm & intercom systems Protective construction features Theatre seats Pneumatic tube systems Heating, ventilating & air conditioning installations Laboratory furniture, built-in Electrical generators & auxiliary gear Food Preparations & serving equipment, built-in Dishwashers Blackboards, bulletin boards, interior and exterior directories, etc.

Page 1 of 6

end (1)



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Hoods and vents Chapel pews & pulpit Refrigerators and reefers, built-in Key Cabinets TV Surveillance Systems Crane & hoists Bowling lanes, including seating and pin spotting equipment BEQ/BOQ wardrobes, built-in or prefabricated Wall-to-wall carpeting

b. Equipment Funded from Appropriations Other than MCON

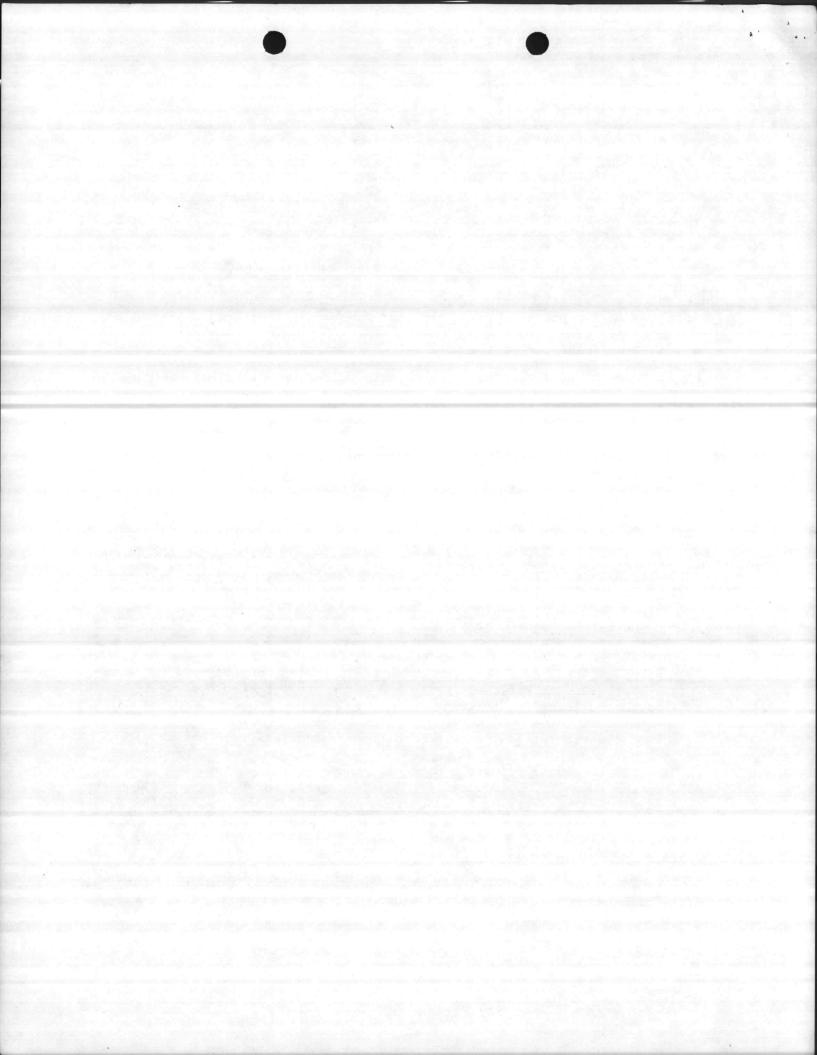
The costs of all items of equipment, including furniture and furnishings, which are loose, "portable", "mobile", or can be detached from the structure without tools, are excluded from MCON costs. "Portable" means movable, including that equipment which is attached to utility lines by attachment plug or screw-on fitting, "mobile" means equipment on wheels or casters. In addition, the costs of permanently attached equipment related directly to the operating function for which the structure is being provided, such as technical, scientific, production and processing equipment, are normally excluded from MCON costs. The following items are typical examples of equipment funded from appropriations other than MCON.

Furniture, loose
Furnishings, loose, including area rugs
Filing cabinets & portable safes
Office machines, portable
Wall clocks, plug-in
Food preparation & serving equipment including appliances; portable
Training aids and equipment, including simulators
Shop equipment
Automatic data processing equipment
Communications equipment
Photographic equipment, portable
Dental chairs and pedestal units
Any operational equipment for which installation mounting and connections
are provided in building design and which are detachable without damage
to the building or equipment.

c. Categories of Equipment Funded from Appropriations Other than MCON

(1) <u>Personnel Support Equipment</u>. Includes all equipment with a unit cost of less than \$3,000 required for initial outfitting of Personnel Support Facilities. The category of Expense Items, as well as APA and Training Equipment are not applicable to these facilities and should not be listed on the requirements list. Requirements for bachelor housing facilities will be developed by this Command.

(2) Expense Items. Collateral equipment such as furniture, furnishings, office machines, medical and dental equipment, shop equipment etc., having a unit price of less than \$3,000 or more at the time of budgeting.



(3) <u>Investment Items</u>. Collateral equipment similar to Expense Items, having a unit value of \$3,000 or more at the time of budgeting.

(4) <u>APA Equipment</u>. Appropriation Purchase Account centrally managed equipment entered in the Federal Supply Catalog, Volume 2 of the Navy Supply Manual and other sources with an even numbered alpha prefix. Such APA equipment is under the cognizance and procurement of a technical sponsor as:

TECHNICAL RESPONSIBILITY	EQUIPMENT TYPE
Naval Air Systems Command	Aviation Support
Naval Electronics Systems Command	Shore Electronics, Communi- cation, Cryptologic
Naval Sea Systems Command	Ships Support, including Electronics and Weapons

Naval Facilities Engineering Command

Civil Engineering Support

(5) <u>Training Equipment</u>. This equipment is used exclusively for the instruction of personnel and consists of, but is not limited to the following:

(a) <u>Training Aids Equipment</u>. Film projectors, slide projectors, overhead projectors, audio and video recording/playback units and closed circuit television systems.

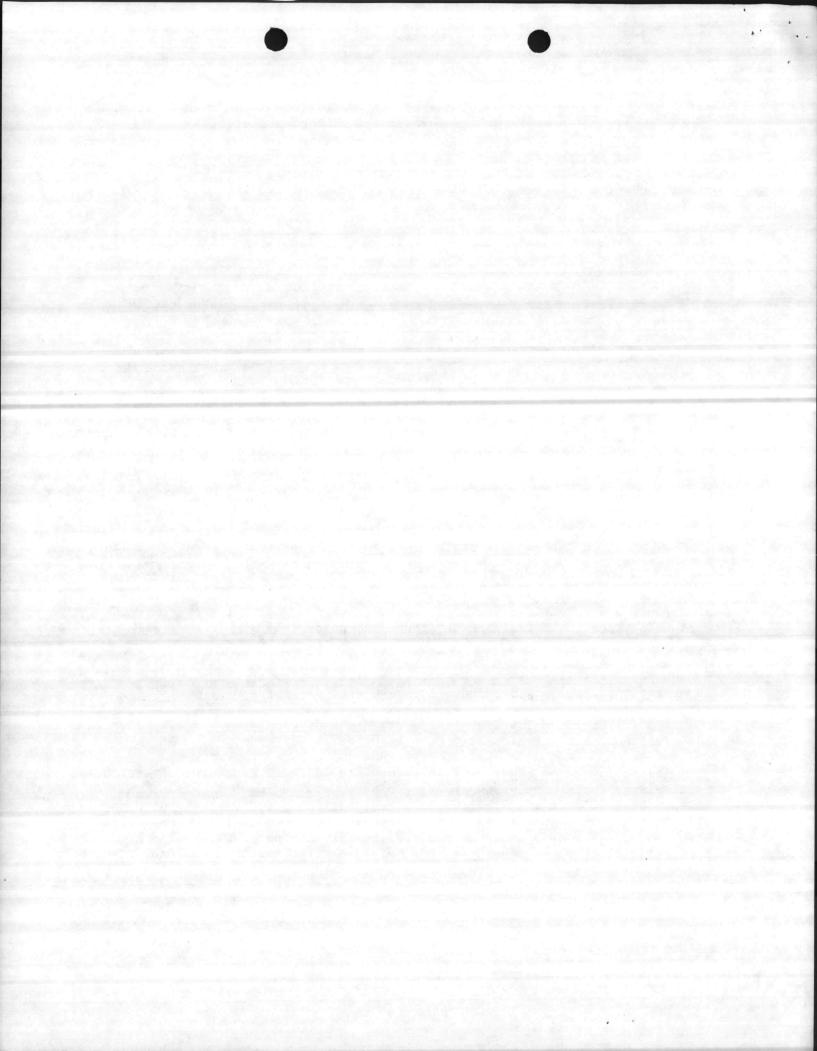
(b) <u>Non-Technical Training Equipment</u>. Typewriters, adding machines, calculators, etc.

(c) <u>Commercial Scientific Training Equipment</u>. Non-Navy sophisticated electronic and scientific equipment normally used in laboratories to teach various physical, chemical and environmental phenomena.

(d) <u>Training Devices</u>. Consists of equipment designed specifically to demonstrate or illustrate a concept, or provide a simulated system in which an operator's skill or techniques are developed or improved.

(e) <u>Civilian Training Equipment</u>. Items developed by civilian sources for civilian training which have been adopted for Navy use.

(6) Equipment on Hand. This category should receive careful attention, particularly during the present period of austere funding. To assure the maximum benefit from the limited resources available, it is incumbent upon all concerned to ensure that items on hand in good condition and compatible with the design and function of the new facility are so identified. This particular category continues to receive close attention from OSD/OMB, NAVCOMPT and various audit offices. Collateral equipment on hand should be identified by appropriate category. The estimated cost should be broken down as follows:



(a) Total estimated value of reusable equipment.

(b) Total relocation/reinstallation costs from old to new structures. It will not be necessary to break down cost for each item of collateral.

(c) Total cost to refurbish equipment when it is economically advisable to refinish equipment as opposed to procuring new items.

4. Cost of the various categories of Collateral Equipment will include the following which will be shown separately and summarized for each group:

a. Purchase price of the item including fabricaton of specialized equipment and design cost of the item.

b. Transportation, crating/uncrating, handling and storage costs.

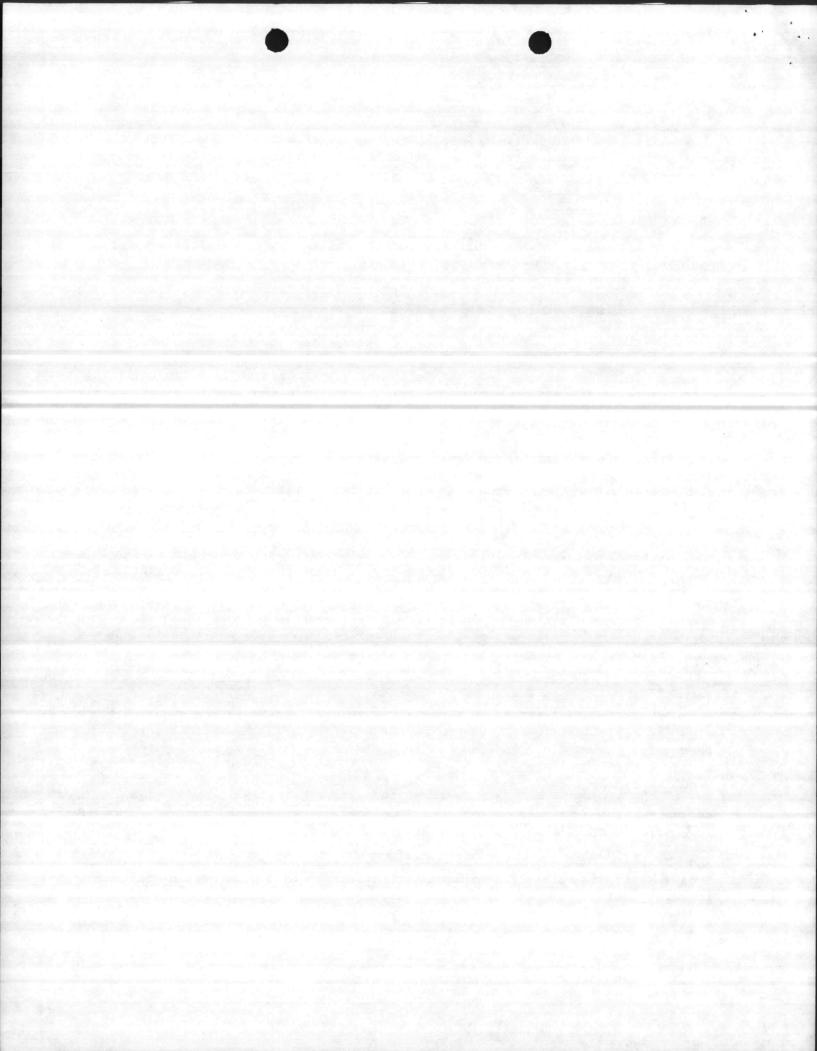
c. Installation cost. <u>NOTE:</u> Equipment having an associated installation cost should be identified by an asterisk, as shown in the sample format.

5. Those items of equipment which must be provided as Government Furnished Equipment (GFE) for installation by the Contractor should be identified by annotating "GF/CI" after each applicable item.

6. Where a requirement for APA Equipment exists, particular attention should be directed toward ensuring that total requirements are identified and realistic costs reported. Although the cognizant inventory manager is responsible for the provision of APA Equipment associated with a MCON/MCNR project, it nevertheless constitutes a vital cost element of the PED, particularly where sophisticated high-cost equipment is involved (for example, electronic training devices).

7. Lists of collateral equipment are to be prepared on the basis of procurement within the United States. When foreign procurement is proposed such items are to be identified and an explanation with related cost data shall be included in PLANNED via NORMAL columns of NAVDOCKS form 11010/1 in accordance with NAVFACINST 11010.14.

8. The provisions of Federal Property Management Regulations dealing with procurement from multiple-award Federal Supply Schedule contracts require that agencies fully justify the procurement of other than the lowest delivered price item which will satisfy the end use requirement. Justification of purchases at other than the lowest delivered price must be based on special or definitive needs which are clearly associated with the achievement of program objectives. Particular attention should be paid to the selection of the lowest priced office machine or equipment which will adequately perform the desired work. It should be noted that personal preference cannot be regarded as an appropriate basis for justification. <u>Complete justification for the requirement of higher</u> <u>cost equipment must accompany the collateral equipment requirement submittal</u>. Some specific examples of equipment which would require such action would be top of the line typewriters, calculators, reproduction machines, medical equipment, shop equipment, etc.



9. <u>Duplicating and office copying equipment</u>. Requests for this equipment should not be submitted until all provisions of OPNAVINST 10461.8 have been met. Listed equipment should be annotated with the statement that procurement of the requested equipment has been approved by the local Navy Publications and Printing Service Office (NPPSO) in accordance with OPNAVINST 10461.8. When NPPSO review services are not available, a feasibility study must be conducted by the activity management analysis staff or other appropriate management assistance organization. If there is insufficient time to obtain approval prior to the deadline for submission of the requirements list, the equipment will be listed pending receipt of approval. Notice of approval or deletion of the requirement must be submitted within 60 days after submission of the original list.

10. Filing equipment requirments should be identified. However, administrative approval of procurement must be obtained in accordance with current regulations before Collateral Equipment funds can be provided. Activities are required to satisfy requirements whenever possible through inter-activity transfer of available filing equipment or by inter-activity transfer of surplus equipment.

11. Portable fire extinguishers are classified as Collateral Equipment and are normally required for MCON projects. The installation of fixed or built-in fire protection systems does not necessarily preclude a requirement for portable equipment. Accordingly, requirements submissions shall include portable fire extinguishers as required to comply with n.f.p.a. Standard No. 10, as contained in Volume 8 of the National Fire Codes. Requirements will be limited to actual quantities needed for installation and shall not include backup or replacement units.

12. <u>Medical Facilities</u>. Collateral equipment requirements for medical facilities will not be submitted as part of the supporting documentation. Medical requirements will be prepared and submitted in two parts, namely:

a. <u>Technical Equipment</u>. Listing to be furnished by the Bureau of Medicine and Surgery, Washington, DC.

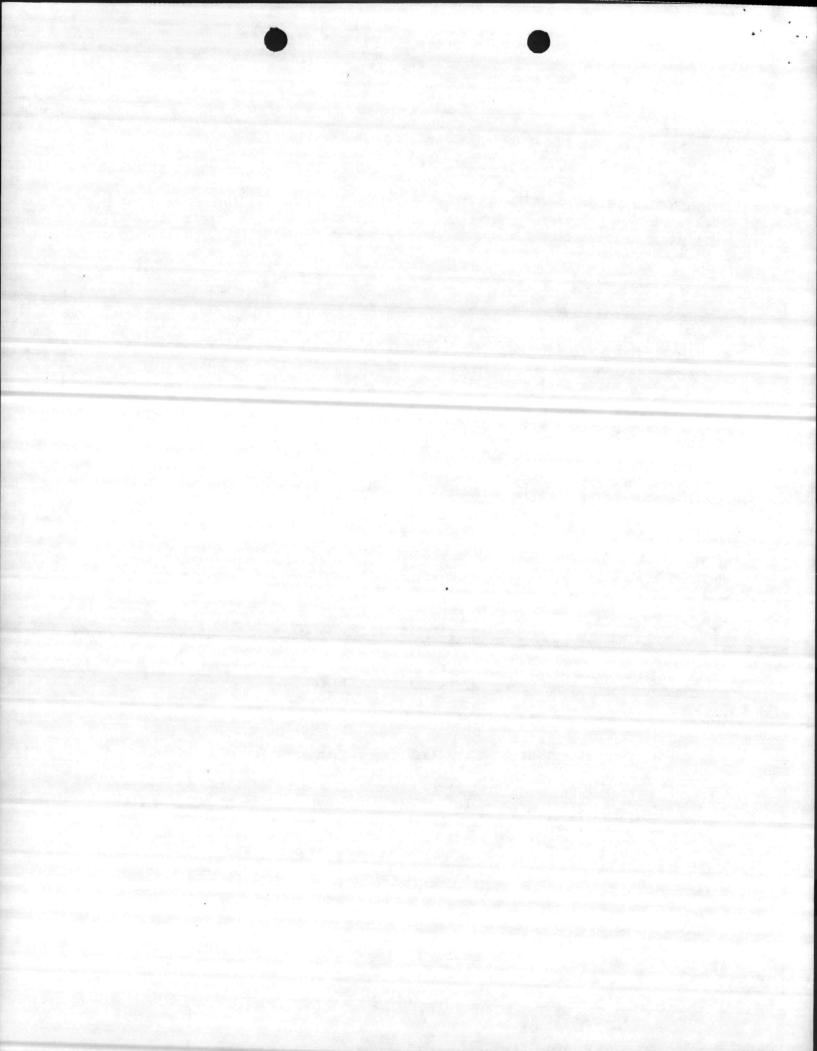
b. <u>Non-Technical Equipment</u>. Listing to be prepared by the user-activity in conjunction with submission of concept plans.

13. Special Equipment/Funding

a. Computers. Will be approved and funded by major claimants.

b. <u>Word Processing Equipment</u>. Feasibility studies and cost analyses of rental vice purchase must be conducted and approved in accordance with OPNAVINST 5210.12 prior to submitting requirements for initial outfitting funding. A copy of such studies must accompany the request for funding.

c. <u>Relocation of collateral equipment</u>. (Refer: NAVCOMPTNOTE 7 of June 1980) NAVFACENGCOM is responsible for the cost of that collateral equipment for which NAVFAC has initial outfitting responsibility. The



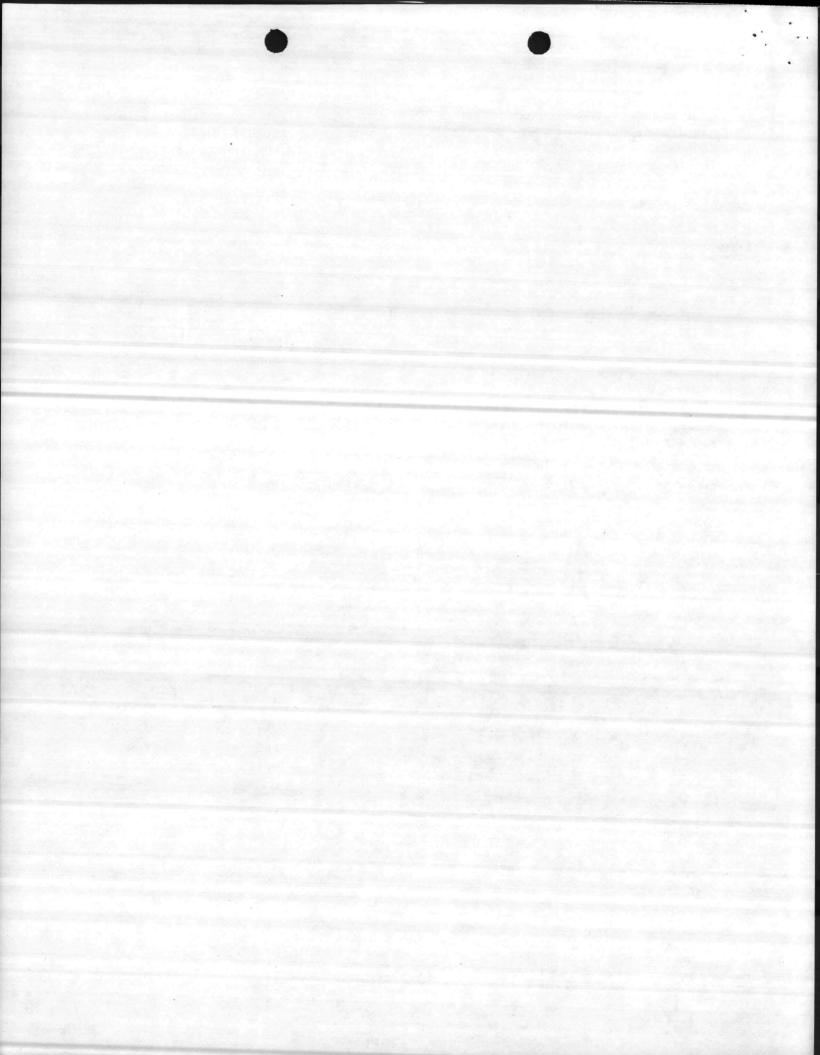
costs associated with the planning, design, rehabilitation of other collateral equipment (training, RDT & E, technical, non-appropriated funded, etc.) in connection with a MCON project will be the budgeting and funding responsibility of the organization which is assigned initial outfitting responsibility.

14. <u>Consumable Items</u>. Collateral Equipment does not include minor consumable items. These items are generally short life items which are highly susceptible to loss through wear and tear, pilferage or damage. Some examples are as follows:

- a. Hand and electrical powered tools.
- b. Spare parts for mechanical and electrical equipment.
- c. Correspondence trays, calender pads, pencil sharpeners, hole punches and other office supplies.
- d. Cleaning gear such as mops, bucket, brooms etc.
- e. Sheets, pillow cases, blankets and shower curtains.
- f. Kitchen cutlery, pots and pans, tableware, condiment containers, and table cloths.

In addition, collateral equipment does not include classes of equipment normally purchased with non-appropriated funds including equipment required to support income producing activities.

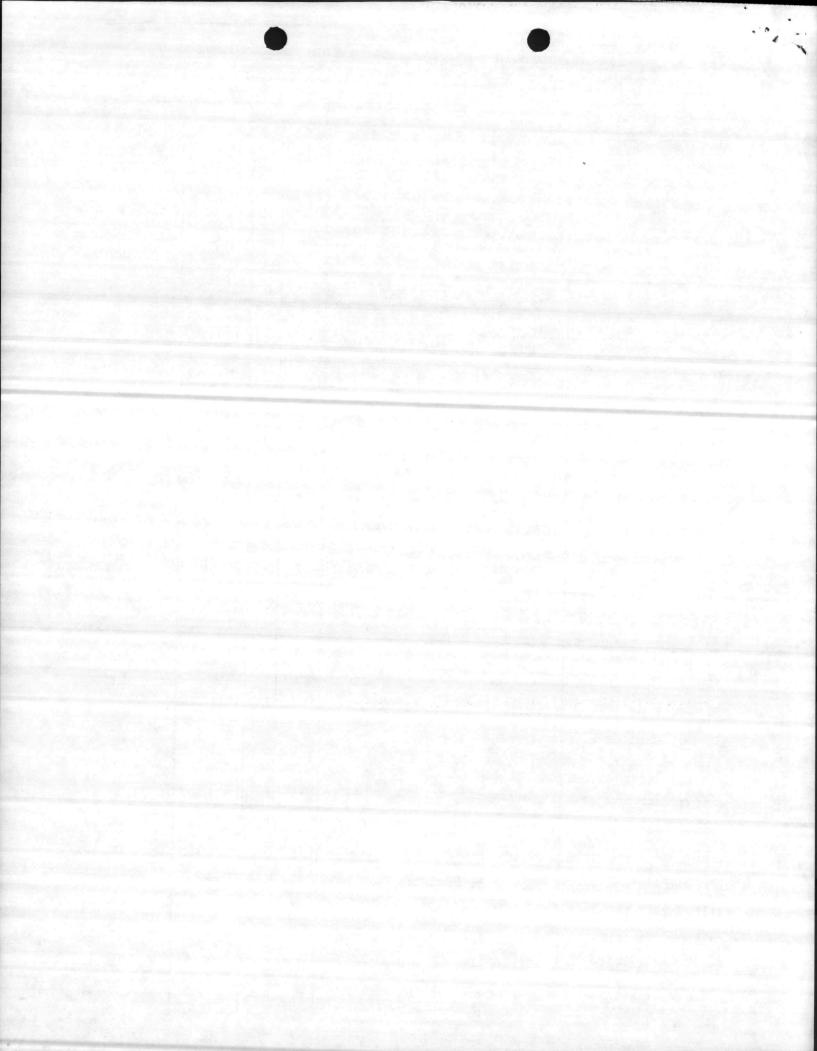
Items included in the categories discussed above should not appear on the initial outfitting collateral equipment requirements submitted for MCON projects.



ADMINISTRATION EVILDING					P-302
CDG. SYMEDL AND FED. STOCK NO. DR CTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	OUAN- TITY	UNIT OF ISSUE	UNIT	TOTAL
Built-in Ecuipment	*Air Conditioning Equipment				1
to be MCON Funded	*Information Counter 10' long		•		
	*Telephone Booth	· ·			
	*Electric Water Cooler				
	*Venetian Blinds				
	*Directory				
	*Chalkboard				
	*Carpet				
*Equipment with Assoc	isted Installation Cost				· · · · ·
. Expense Items					
7110-00-143-0832	Desk, double pedestal	10	EA	260.00	2,600.00
7110-00-273-8793	Chair, swivel, w/arms	10	EA ·	51.00	510.00
7110-00-273-8785	Chair, side, no arms	11.	EA	27.50	302.50
7110-00-286-3796	File, cabinet, legal, 5 draver	19	EA	170.00	3,230.00
-7195-00-275-5825	Wearing apparel rack, 12 hazger	2	EA	57.00	. 114.00
7125-00-270-7720	Storage shelves, 6 shelves, 82"H x 36"W x 24"D, 700 lbs/shelf	2	EA	115.00	230.00
7110-00-143-0822	Office table, 34" x 60"	8	EA	105.00	840.00
7110-06-927-3197	Chair, lounge	2	EA	218.00	436.00
7110-00-916-5840	Sofa, 3 person	1	EA	433.00	433.00
FEDERAL SCHEDULE	Conference table, 92"L x 42";	1	EA.	350.00	350.00
7110-00-264-5339	Chair, conference, w/arms	10	EA	53.00	530.00
FEDERAL SCHEDULE	Lectern	1	EA	150.00	150.00
FEDERAL SCHEDULE	Typewriter, 18" dual pitch	6	EA	800.00	4,800.00
FEDERAL SCHEDULE	Calculator	15	EA	\$25.00	3,375.00
7110-00-641-5436	Storage cabinet, 2 door	5	EA	136.00	- 680.00
7105-00-689-8489	Smoking stand	10	EA	18.90	189.00
7110-00-143-0833	Desk, typist	15	EA	266.00	3,990.0
7110-00-273-8791	Chair, typist, swivel	15	EA	44.00	660.0
	Wearing apparel rack, 6 hanger	8	EA	38.00.	304.0
7195-00-275-5824	Bookcase section, w/o doors	36	· EA	18.90	
7110-00-935-3240	the second s	12	EA	10.40	. 124.8
7110-00-262-6673	Bookcase base	12	1	10.40	124.0

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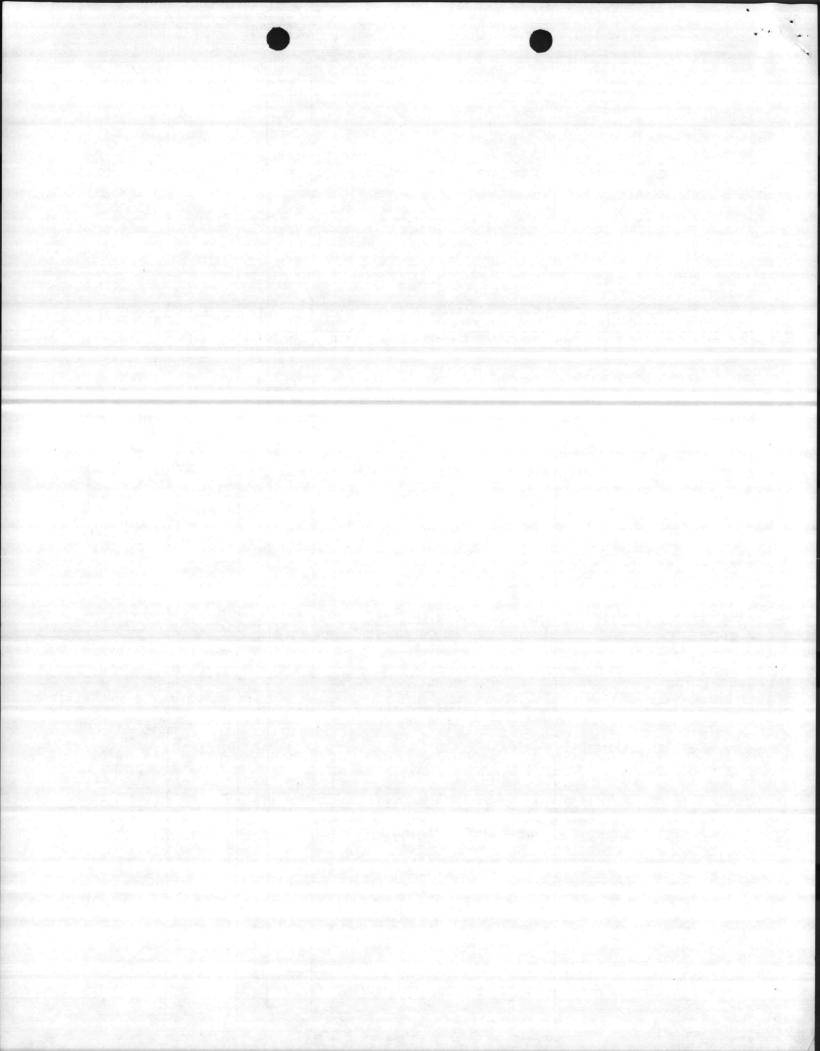
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	COG, SYMBOL AND FED, STOCK NO, OR OTHER SOURCE	ITEM/EDUIPMENT DESCRIPTION	CUAN-	UNIT OF ISSUE	UNIT	TOTAL
	7110-00-262-6681	Bookcase top	12	EA	5.60	67.20
	7195-00-262-6647	Costumer	4	EA	31.00	124.00
	7520-00-281-5911	Wastepaper basket, 14"	25	EA	2.60	65.00
	7110-00-993-5073	End tables	2	EA	91.00	182.00
	7110-00-926-6702	Coffee table	1	EA	122.00	122.00
	7110-00-264-5236	Office table, 48" x 30"	1	EA	184.00	. 184.00
	FEDERAL SCHEDULE	Lamps, table, 39"H	3	EA	45.00	135.00
	6645-00-530-3342	Clock, electric, 12"	15	EA	6.30	94.50
	7110-00-143-0839	Bookcase, 2 shelf, 22"W x 18"D x 29"H	 10	EA	46.00	460.00
:	FEDERAL SCHEDULE	Sand urns	6	EA	21.00	126.00
	FEDERAL SCHEDULE	Entrance Mats, 3' x 5'	5	E4	35.00	175.00
	9C4210-00-202-7858	Fire extinguishers, CO2, 15 lbs.	5	EA	79.00	395.00
	7110-00-128-0094	Fire extinguisher, H20, 2% gal.	. 5	EA	23.00	115.00
	FEDERAL SCHEDULE	Miscellaneous - Drapes, graphics.	1	LS	1,000.00	1,000.00
	FEDERAL SCHEDULE	Vacuum cleaper, upright	1	EA	150.00	150.00
	FEDERAL SCHEDULE	.Buffer, 18"	2	EA	350.00	700.00
		TOTAL EXPENSE ITEMS				28,609.40
3.	Investment Items	Reproduction machine	1	EA	3,450.00	3,450.00
4.	APA Equipment	TOTAL INVESTMENT ITEMS				3,450.00
	468662-471-5662	*Teletypewriter, send/receive (GFE/C.I.	2	EA	1,800.00	3,600.00
5.	Training Equipment	None				
				1		
		*Equipment with Associated Instal	lation	Cos	-	
6.	Equipment on Hand	A. Built-in Equipment NONE	1	A.	•	
		B. Expense Items		and a second		
		Desk, double pedestal	2	EA		
		Chair, desk, swivel	2	EA		
		Desk, single pedestal	5	EA		•
ingen i Maler i .		Chair, desk, swivel	5	EA		

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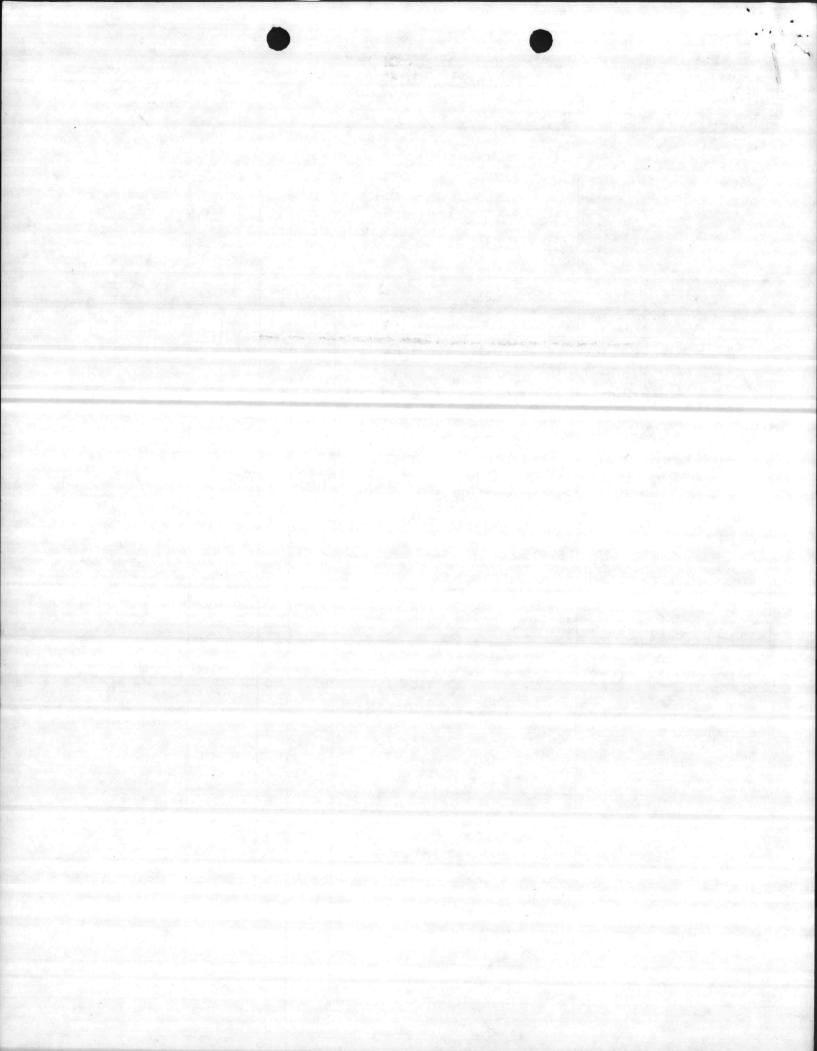
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DMINISTRATION BUILD	ING		•		P. NO. P-302
COG. SYMEOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	OUAN-	DF ISSUE	UNIT	TOTAL
	T			Sec. And	
	Typewriter, electric 18"	5	EA .		
	Table, office .	2.	EA	dias tit	in una
	Chair, side, no arms	19	EA		
	Calculator	2	EA		
	File cabinets, 5 draver	21	EA		
	File cabinets, 2 drawer	5	EA		
	Relocation cost of expense items Refurbishment costs of expense it	225			400.00
•	C. Investment ltems				
	Collator				
	Relocation cost of investment it Reinstallation cost of investmen	ens t items		•	60.00 75.00
	D. APA Equipment - NONE				
	E. Training Equipment - NONE				
Ummery	Expense Cost (O&M,N) Investment Cost (OP,N)			•	30,144.40 3,450.00
	APA Equipment (NAVELEX)				3,600.00
	TOTAL				37,194.40
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Page 3 of 3



PW0:408:EGJ:mkt 11000 9 DEC 1983

From: Commanding General

- To: Commander, Atlantic Division, Naval Facilities Engineering Command Norfolk, VA 23511 (ATTN: Code 09A21B3)
- Subj: FY-86 MCON Projects P-065, Gymnasium; P-808 OF-35 Mechanics School; and P-790, Sewage System Improvements, Marine Corps Base, Camp Lejeune, NC
- Ref: (a) LANTNAVFACENGCOM 092122Z NOV 83 for P-065
 - (b) LANTNAVFACENGCOM 0921232 NOV 83 for P-808
 - (c) LANTNAVFACENGCOM 092124Z NOV 83 for P-790
 - (d) CG MCB CLNC 1tr PWO:408:EJD:mkt 11000 of 17 Aug 83
- Encl: (1) PEA, FY-86 MCON Project P-065, Gymnasium of 13 Jan 82
 - (2) PEA, FY-86 MCON Project P-808, OF-35 Mechanics School, MCSSS (lst Incr) of 13 Jan 82
 - (3) PEA, FY-86 MCON Project P-790, Sewage System Improvements of 13 Jan 82

1. References (a) through (c) requested information on subject projects to assure adequate scope definition and cost certification. This information was previously provided in reference (d).

2. The following information is provided for Project P-065, Gymnasium:

a. Location plan and status of Site Approval: The site remains the same as submitted in reference (c) (This Commands FY-86 through FY-90 Five Year MCON Program). The site was approved by CMC (Code LFF-1) on 16 November 1981.

b. Conceptual recommendations developed during facility planning that should be considered during design: None.

c. Planning considerations that should be investigated: None.

d. Copy of EIA/CEIS and any statements on design concepts required to eliminate adverse environmental effects consistent with applicable directives: A PEA is submitted as enclosure (1). No adverse environmental impact is anticipated.

e. General Comments: None.

shore Facilities Planning System actions have been completed.



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3. The following information is provided for Project P-808, OF-35 mechanics School, MCSSS (lst Incr.):

a. Location plan and status of Site Approval: The site remains the same as submitted in reference (c), (This Commands FY-86 through FY-90 Five Year MCON Program). The site was approved by CMC (Code LFF-1) on 30 August 1982.

b. Conceptual recommendations developed during facility planning that should be considered during design: None.

c. Planning considerations that should be investigated: None.

6. Copy of EIA/CEIS and any statements on design concepts required to eliminate adverse environmental effects consistent with applicable directives: A PEA is submitted as enclosure (2). No adverse environmental impact is anticipated.

e. General Comments: None.

Shore Facilities Planning System actions have been completed.

4. The following information is provided for Project 2-790, Sewage System Improvements:

a. Location plan and status of Site Approval: The site remains the same as submitted in reference (c), (This Commands FY-86 through FY-90 Five Year MCON Program). The site was approved by CMC (Code LFF-1) on 30 July 1982.

b. Conceptual recommendations developed during facility planning that should be considered during design: None.

c. Planning considerations that should be investigated: None.

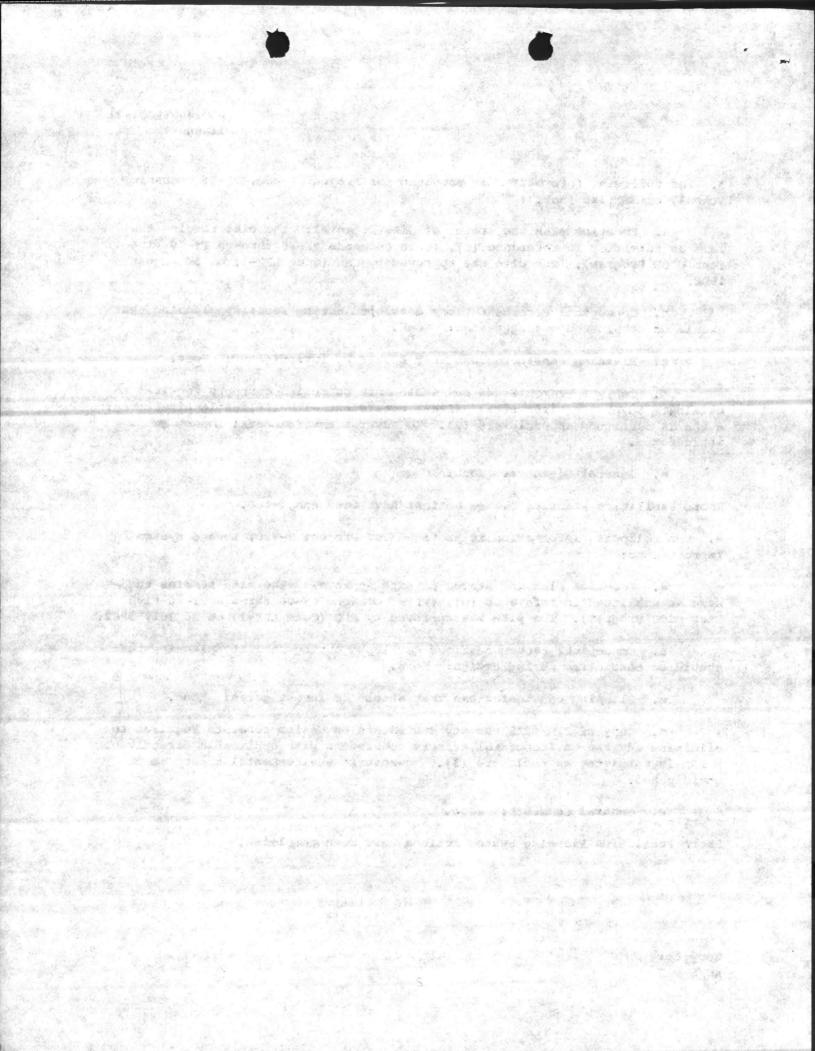
d. Copy of EIA/CEIS and any statements on design concepts required to eliminate adverse environmental effects consistent with applicable directives: A PEA is submitted as enclosure (3). No adverse environmental impact is anticipated.

e. General Comments: None.

shore Facilities Planning System actions have been completed.

M. G. LILLEY By direction

Copy to: AC/S FAC



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

ENVIRONMENTAL IMPACT/ENVIRONMENTAL ENHANCEMENT REVIEW BOARD MEETING OF

13 Jan 1982

ADDENDUM TO PRELIMINARY ENVIRONMENTAL ASSESSMENT (PEA)

SUBJ: PEA - P-808, OF-35 Mechanics School, MCSSS (1st Incr.)

BOARD ACTION

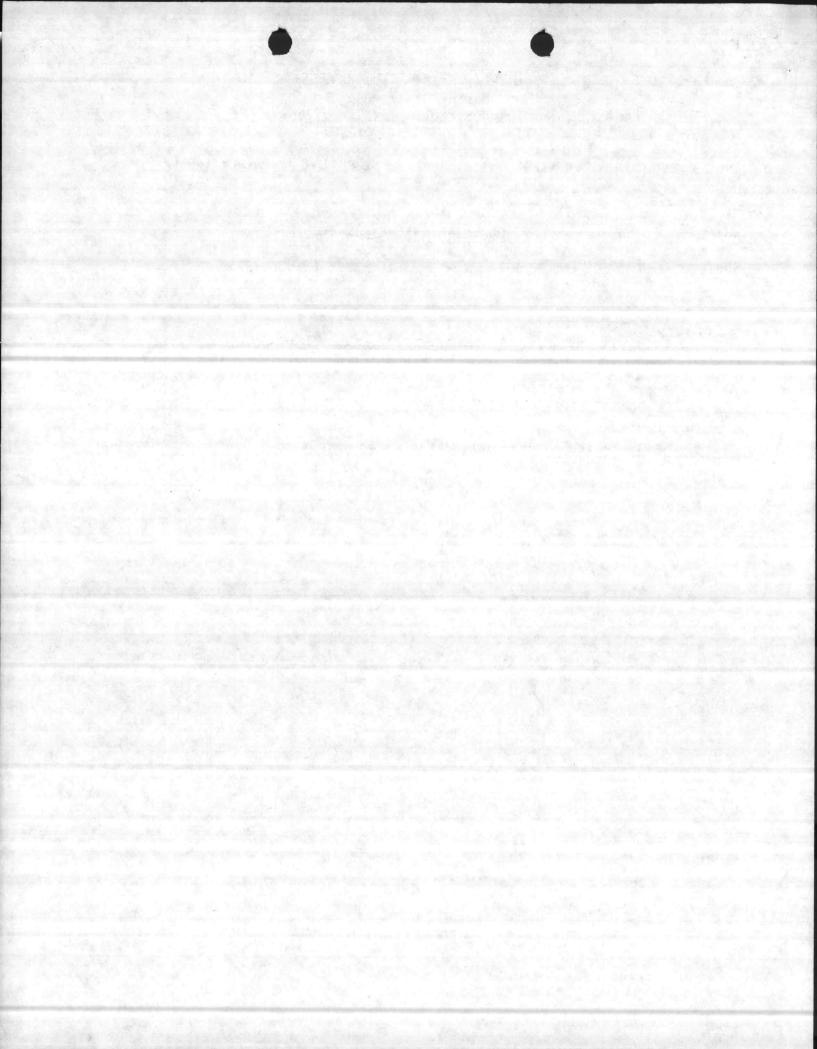
X

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

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

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

Copy to: EIA File PWO BMO



Impact on other Base functions and missions. d.

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(1) Impact on other Base functions. the proposed site will impact on the special service function. That is, it will be located on athletic fields S-M-165 and S-M-186.

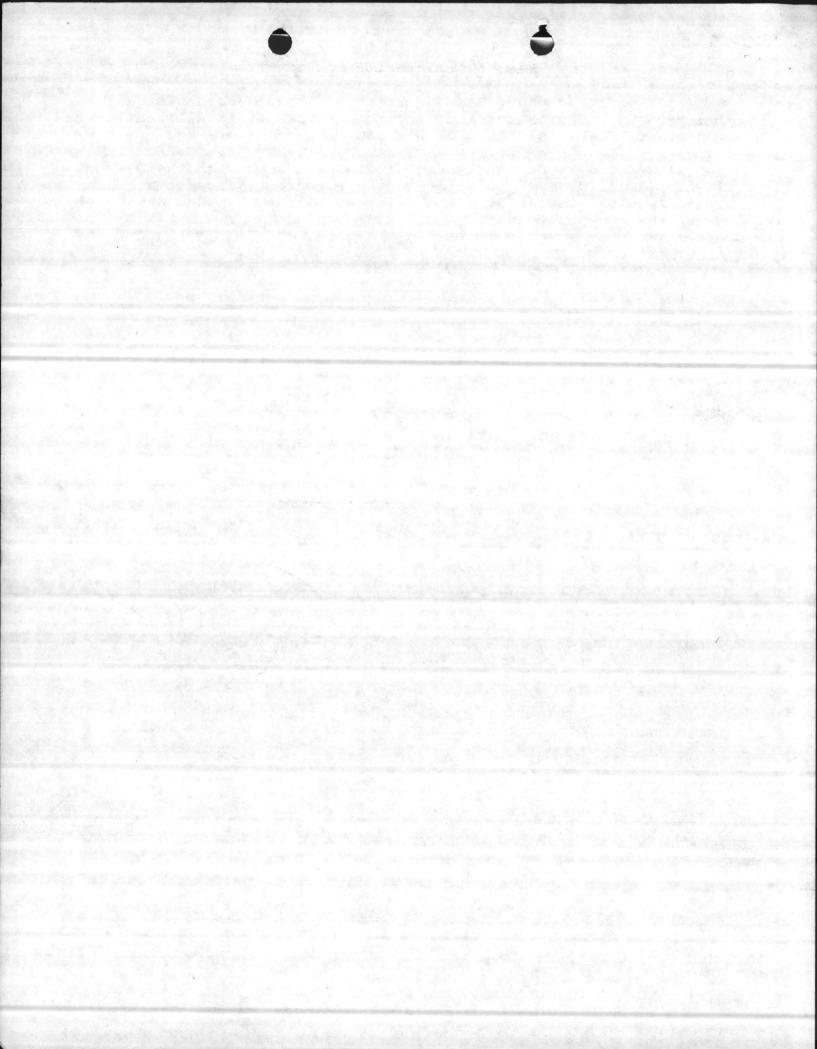
(2) Master Plan. This project was discussed with the Design Director, Public Works Department; the Director advised that the project was consistent with the existing Master Plan and projected use of the surrounding area. c 42.

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1. Project: P-808, OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT I)

a. <u>Project Description</u>. Construct permanent applied facility with piles, reinforced concrete foundation, floors, masonry walls. This includes built-up roof ovens insulation and interior support system; i.e., air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work and utilities connected.

(1) Adequate facilities are required for formally instructing Marines in 2nd, 3rd, and 4th echelon maintenance of Marine Corps motor transport equipment. Further, consolidating the instruction in one facility will reduce the span of control, reduce lost time resulting from moving from one applied instruction facility to another. Currently, facilities are located in excess of one mile from each other.

(2) Impact if not provided. If not provided, Marine Corps Service Support Schools will continue to instruct 700 students per year in inadequate i.e., over 100 degrees F temperature in classrooms and applied laboratories during the summer; under freezing weather during the winter (some chill is taken during the winter with WWII vintage space heaters. Additionally, vehicles have changed in terms of size and technological complexity requiring a greater base of knowledge to be an effective mechanic.

(3) Facilities required. 26, 961 square feet of applied academic school area, including flexible pavements, sidewalks, security fencing, lighting, utilities, and site improvement is required

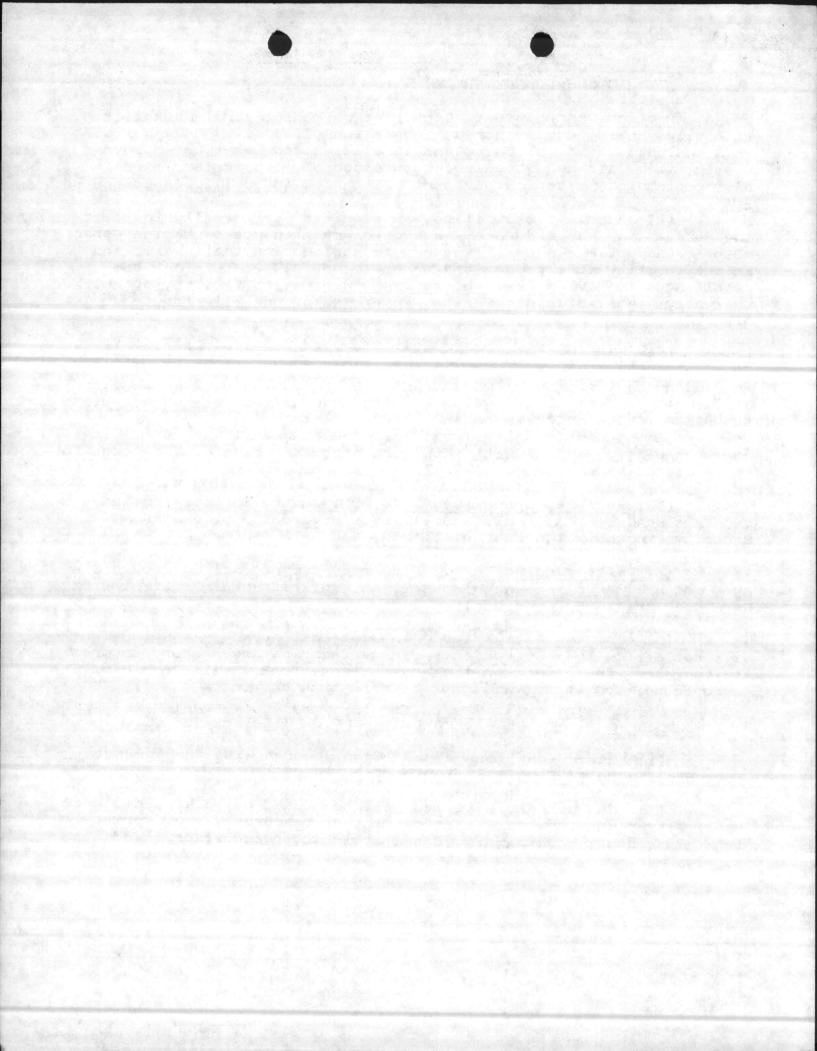
(4) <u>Site requirements</u>. Site requirement include good drainage, potable water, sewage disposal, and soil structure sufficient to permit a structure to be built.

(5) Ongoing Activities. In most instances the instruction will not affect the environment. In certain instances where engines are operated, the impact on the environment, fumes, will be minimal. In any case, the impact will not be more than currently ongoing.

b. Consideration of Alternatives and Site Selected.

(1) Other locations aboard Camp Johnson were considered possible, South of Bldg 131, south of Building 120.

(2) The primary site was selected based on walking distance to billeting, dining facilities, and other resources, e.g., printing, classrooms, PX, laundry, Bank, athletic, headquarters, and supply.



c. Compliance with Federal, State, and Local Environmental Regulations and Guidlines.

(1) Aplicability of applicable laws

(a) Endangered Species Act. Use of the cleared area by endangered species of animals is insignificant. The project has no apparent beneficial or adverse impact on any endangered or threatened species.

(b) <u>Clean Water Act</u>. All sanitary waste will be disposed in the Base sanitary sewer system. This project will not cause additional water pollution.

(c) <u>Clean Air Act</u> Not applicable. This project will not cause additional air pollution.

(d) <u>Coastal Zone Management Act</u>. There is no direct or indirect impact on tidal marshes, beaches or other protected areas.

(e) Archeological and Historic Preservation Act. There are no structures in the immediate area which have been identified on state or national registers of historic sites. There are no visible remnant structures of homesites, artifacts, etc. which indicate that the site is covered by this Act.

(f) North Carclina Erosion and Sedimantation Regulation. An erosion and sediment control plan will be incorporated into the project plans and specifications as required.

(g) <u>Hazardous Materials</u>. These materials will be managed and disposed of in accordance with Marine Corps Base Order 11090. 1B

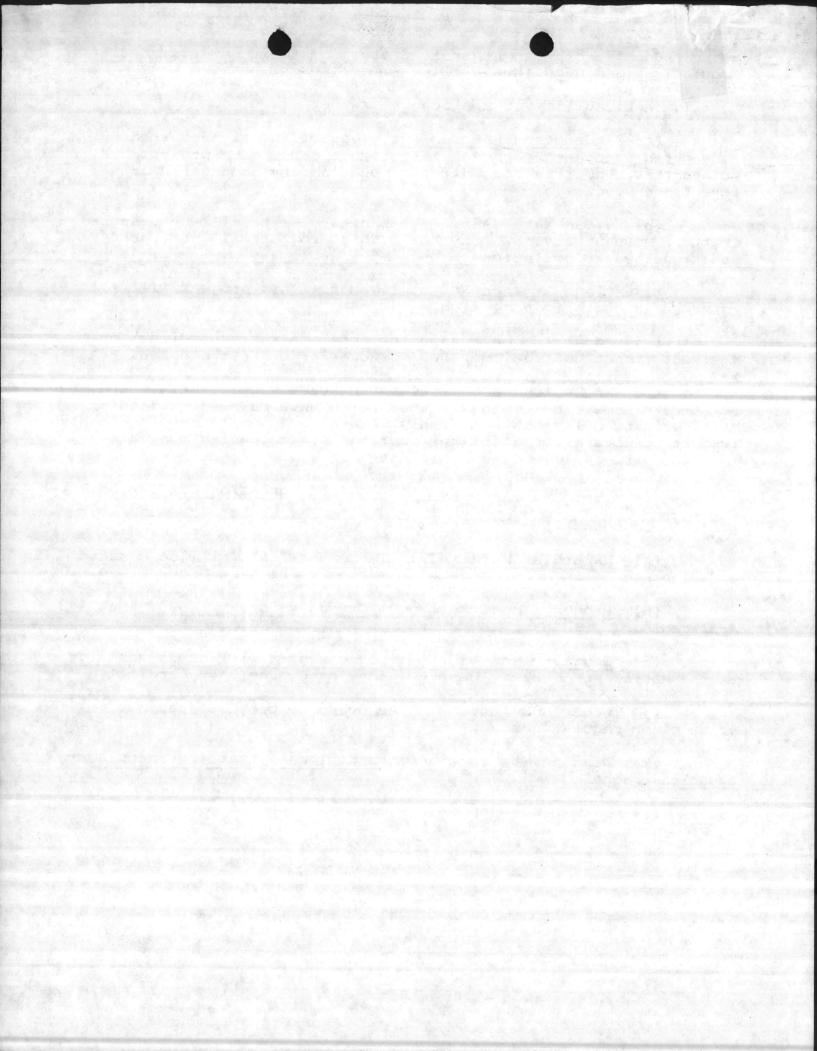
(h) Protection of Wetlands, Executive Order 11990. Not Applicable.

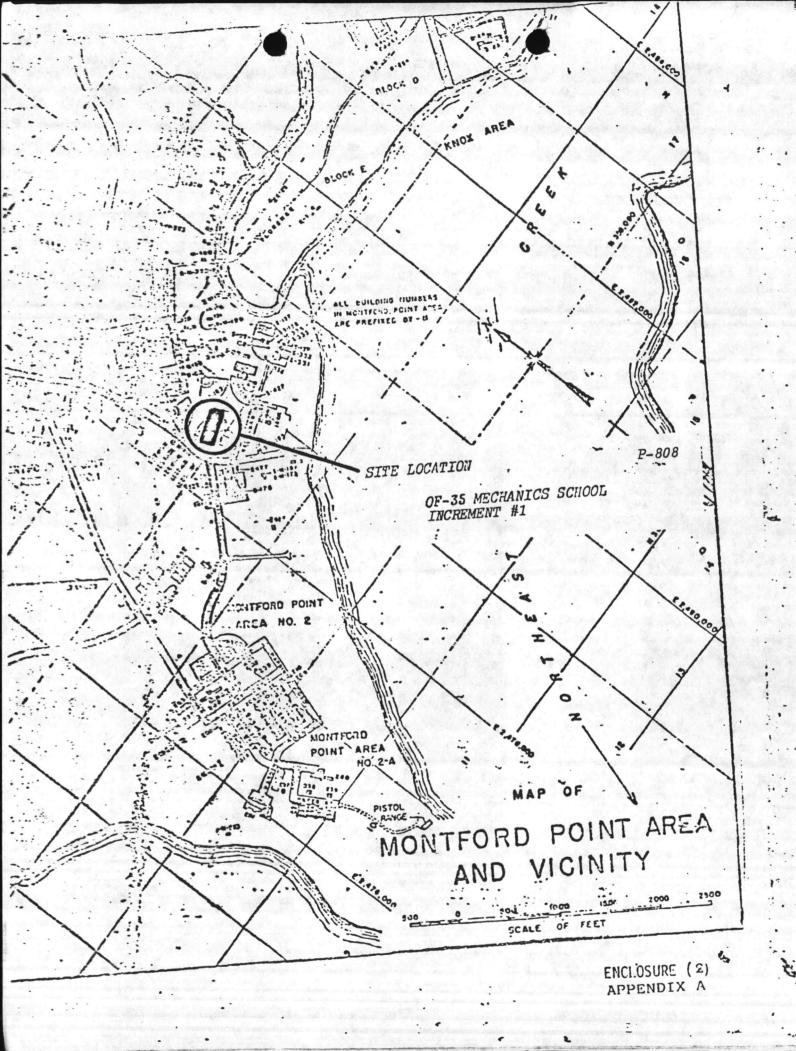
(i) <u>Sanitary Wastes</u>. All solid wastes will be disposed of at the Marine Corps Base, Camp Lejeune, N. C. Sanitary Landfill.

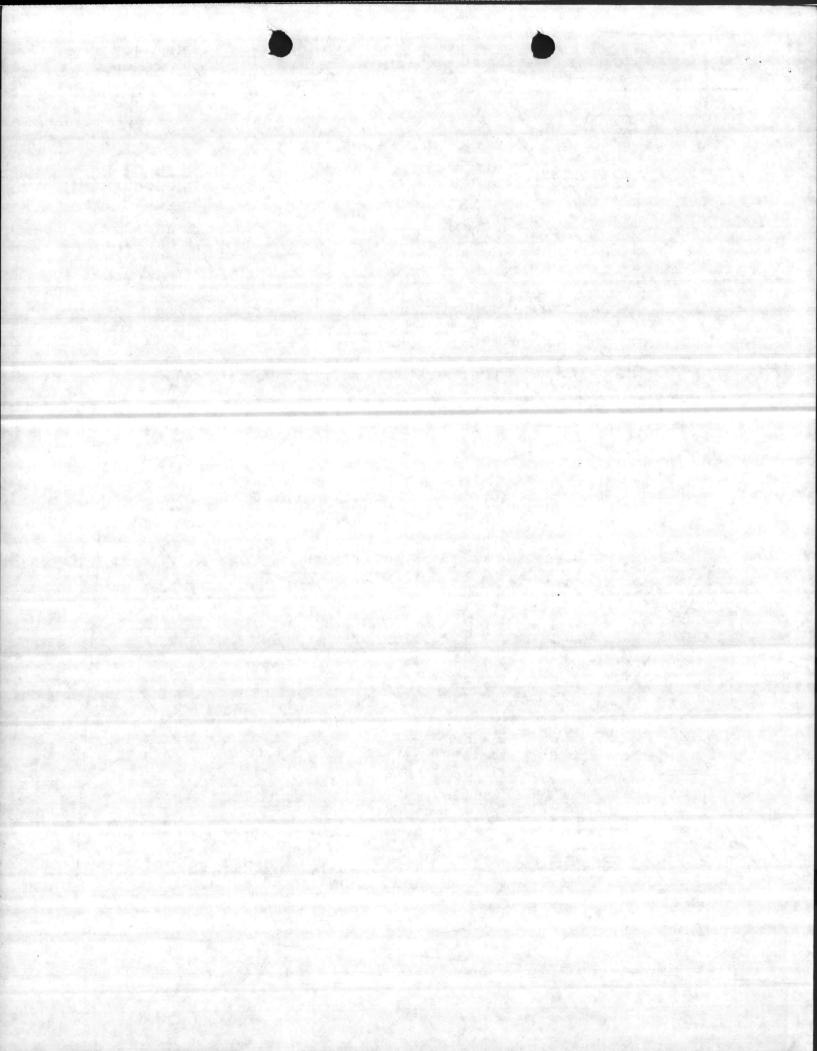
(j) Other Regulations. The proposed project does not in-

(k) List permit requirements of local, state, or regulatory agencies. None

(1) Site. See Appendix A.









UNITED STATES MARINE CORPS. MARINE CORPS SERVICE SUPPORT SCHOOLS MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA 28542

IN REPLY BEFER TO 4/JT/ghm 11000 10 Dec 1981

808-4

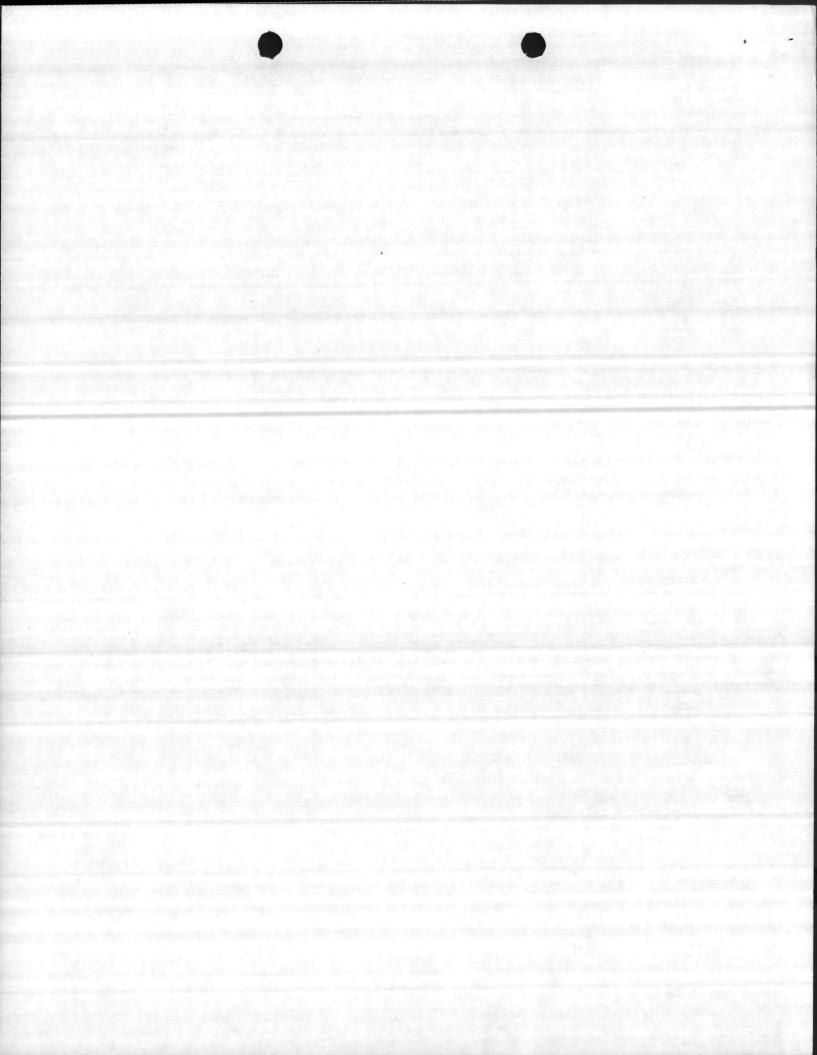
From: Commanding Officer To:

- Public Works Department, Marine Corps Base, Camp Lejeune, North Carolina 28542 (Attn: Planning Branch)
- Subj: FY 84 through FY 88 Five Year Military Construction (MILCON) Program for MCB, Camp Lejeune; request for Preliminary Environmental Assessments (PEA's)
- Ref: (a) BO 11000.1A (b) CG, MCB, CLNC PW0:408:EGJ:bjd:11000 dtd 20Nov81
- (1) P628, Unaccompanied Enlisted Personnel Housing Encl: (2) P808, OF-35 Mech School (Increment 1)

1. In accordance with references (a) and (b) the Preliminary Environmental Assessments are submitted as enclosures (1) and (2).

Jens G. A. WESSELS

Acting



1. Project: P-808, OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT I)

a. <u>Project Description</u>. Construct permanent applied facility with piles, reinforced concrete foundation, floors, masonry walls. This includes built-up roof ovens insulation and interior support system; i.e., air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work and utilities connected.

(1) Adequate facilities are required for formally instructing Marines in 2nd, 3rd, and 4th echelon maintenance of Marine Corps motor transport equipment. Further, consolidating the instruction in one facility will reduce the span of control, reduce lost time resulting from moving from one applied instruction facility to another. Currently, facilities are located in excess of one mile from each other.

(2) Impact if not provided. If not provided, Marine Corps Service Support Schools will continue to instruct 700 students per year in inadequate i.e., over 100 degrees F temperature in classrooms and applied laboratories during the summer; under freezing weather during the winter (some chill is taken during the winter with WWII vintage space heaters. Additionally, vehicles have changed in terms of size and technological complexity requiring a greater base of knowledge to be an effective mechanic.

(3) Facilities required. 26, 961 square feet of applied academic school area, including flexible pavements, sidewalks, security fencing, lighting, utilities, and site improvement is required

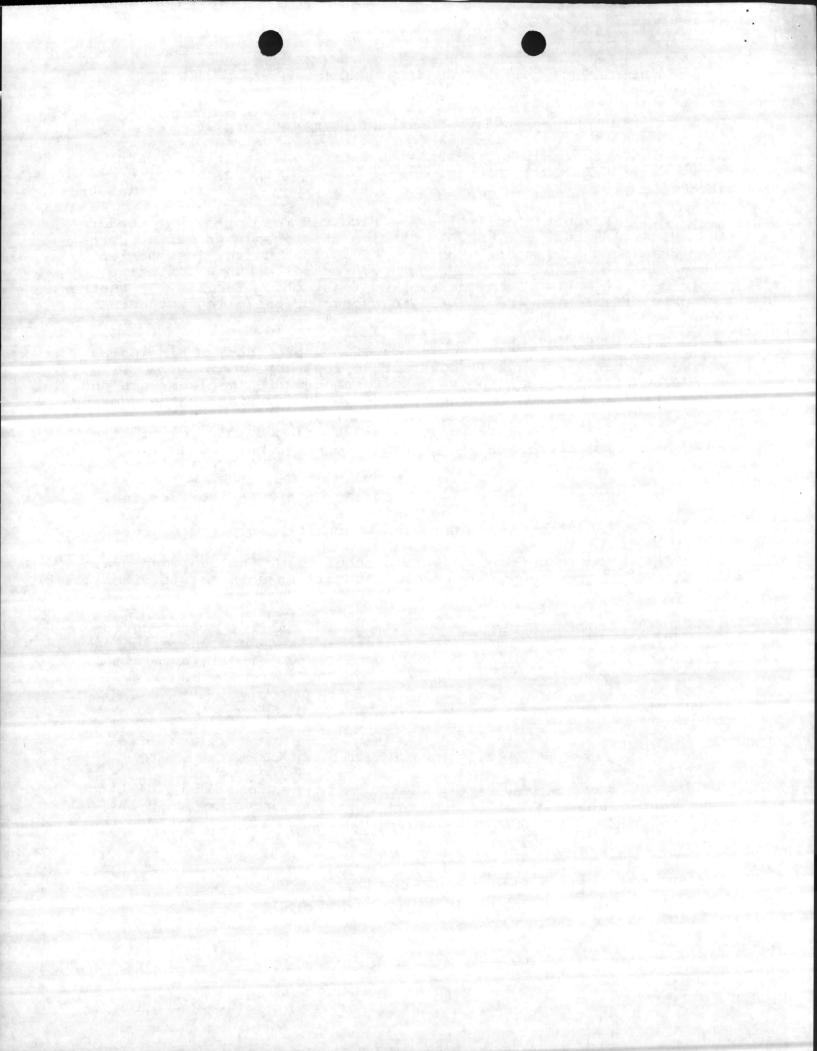
(4) <u>Site requirements</u>. Site requirement include good drainage, potable water, sewage disposal, and soil structure sufficient to permit a structure to be built.

(5) Ongoing Activities. In most instances the instruction will not affect the environment. In certain instances where engines are operated, the impact on the environment, fumes, will be minimal. In any case, the impact will not be more than currently ongoing.

b. Consideration of Alternatives and Site Selected.

(1) Other locations aboard Camp Johnson were considered possible, South of Bldg 131, south of Building 120.

(2) The primary site was selected based on walking distance to billeting, dining facilities, and other resources, e.g., printing, classrooms, PX, laundry, Bank, athletic, headquarters, and supply.



c. <u>Compliance with Federal</u>, State, and Local Environmental Regulations and Guidlines.

(1) Aplicability of applicable laws

(a) Endangered Species Act. Use of the cleared area by endangered species of animals is insignificant. The project has no apparent beneficial or adverse impact on any endangered or threatened species.

(b) <u>Clean Water Act</u>. All sanitary waste will be disposed in the Base sanitary sewer system. This project will not cause additional water pollution.

(c) <u>Clean Air Act</u> Not applicable. This project will not cause additional air pollution.

(d) <u>Coastal Zone Management Act</u>. There is no direct or indirect impact on tidal marshes, beaches or other protected areas.

(e) Archeological and Historic Preservation Act. There are no structures in the immediate area which have been identified on state or national registers of historic sites. There are no visible remnant structures of homesites, artifacts, etc. which indicate that the site is covered by this Act.

(f) North Carclina Erosion and Sedimantation Regulation. An erosion and sediment control plan will be incorporated into the project plans and specifications as required.

(g) <u>Hazardous Materials</u>. These materials will be managed and disposed of in accordance with Marine Corps Base Order 11090. 1B

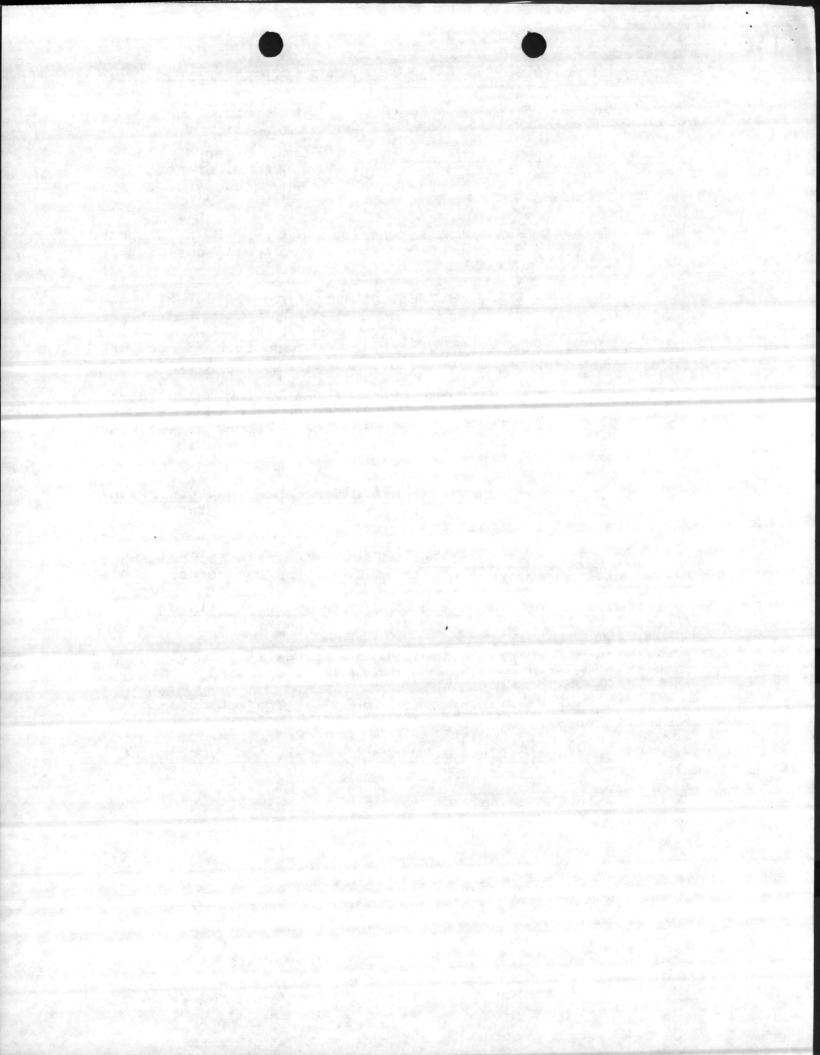
(h) Protection of Wetlands, Executive Order 11990. Not Applicable.

(i) <u>Sanitary Wastes</u>. All solid wastes will be disposed of at the Marine Corps Base, Camp Lejeune, N. C. Sanitary Landfill.

(j) Other Regulations. The proposed project does not involve other regulations.

(k) List permit requirements of local, state, or regulatory agencies. None

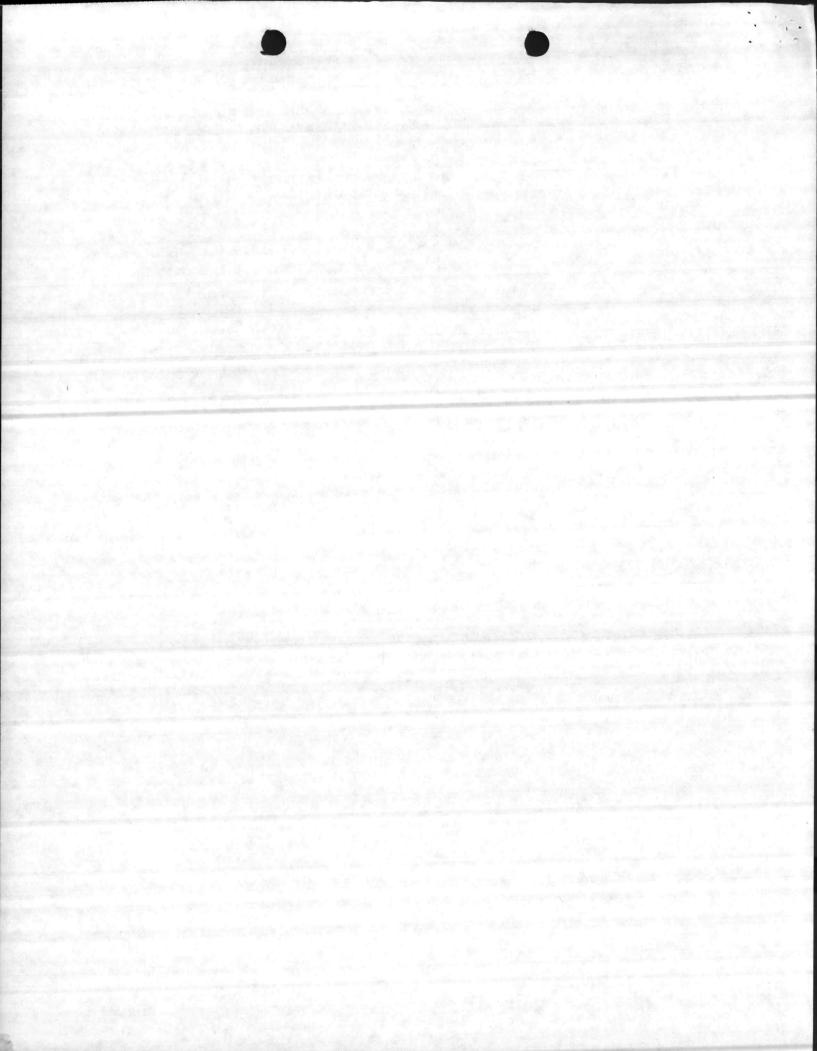
(1) Site. See Appendix A.

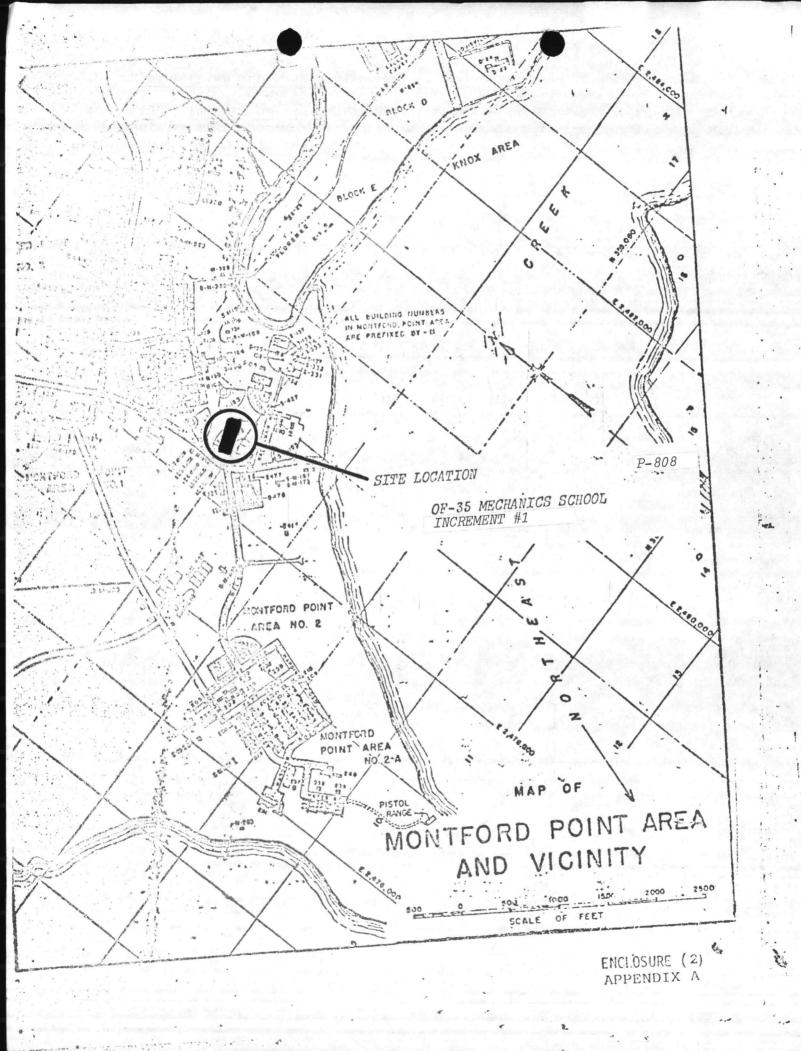


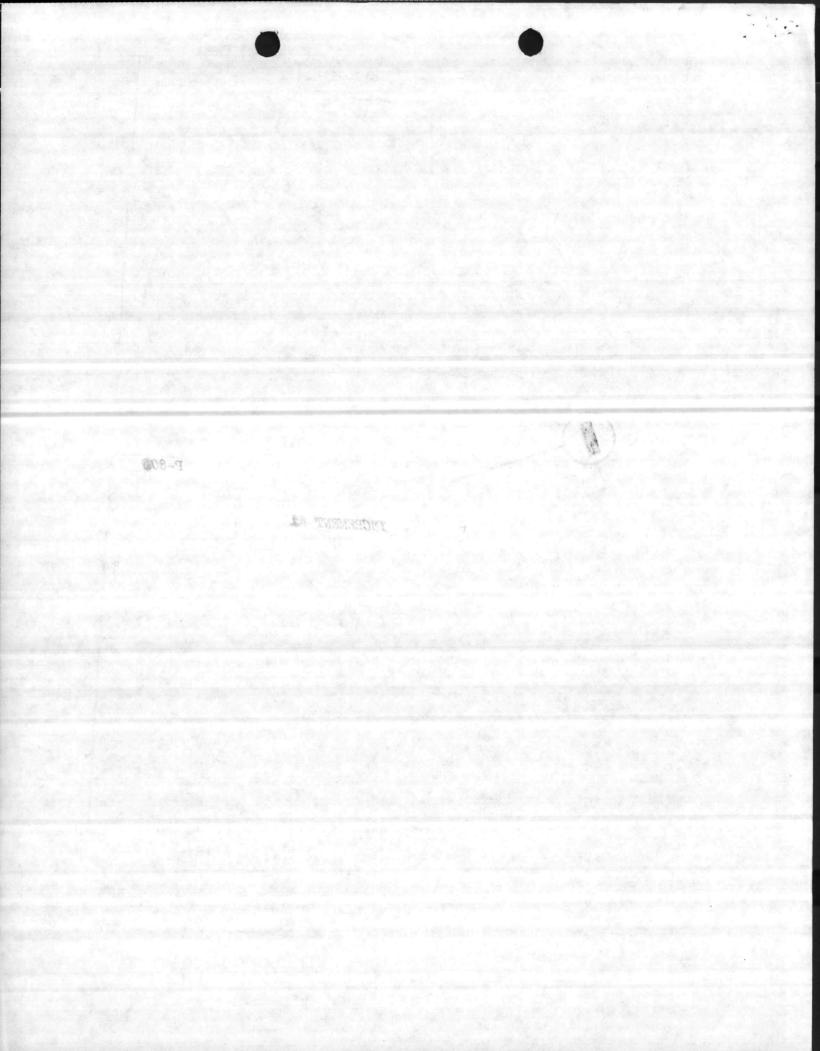
d. Impact on other Base functions and missions.

(1) Impact on other Base functions. the proposed site will impact on the special service function. That is, it will be located on athletic fields S-M-165 and S-M-186.

(2) <u>Master Plan</u>. This project was discussed with the Design Director, Public Works Department; the Director advised that the project was consistent with the existing Master Plan and projected use of the surrounding area.



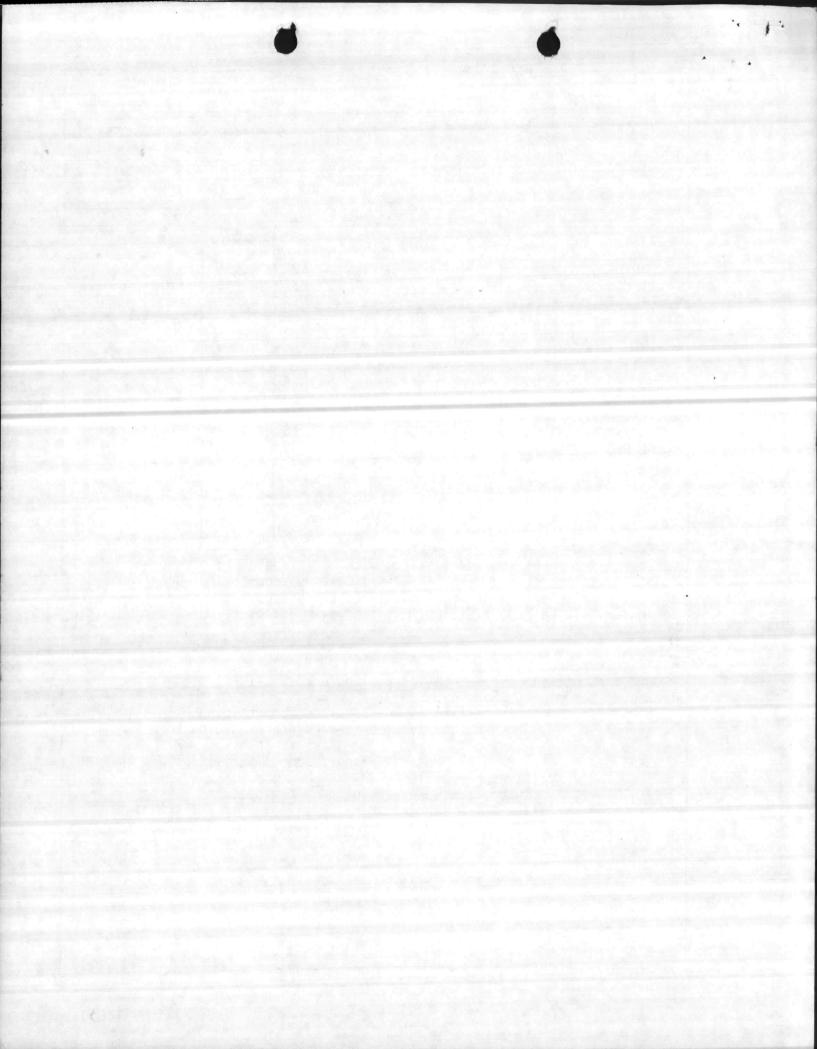




BUILDINGSF26,96175.00(2,022BUILT-IN EQUIPMENTLS(303SUPPORTING FACILITIESLS(160PAVEMENTS, RIGID AND FLEXIBLELS(160SECURITY LIGHTING, FENCING, UTILITIES, ANDLS(216SUBTOTALLS2,701CONTINGENCY - 10%LS2,701TOTAL CONTRACT COSTLS2,971SUPERVISION, INSPECTION, & OVERHEAD - 5.5%LS163	1. COMPONENT NAVY	FY 19_84 MILITARY C	ONSTRUCT	TION PRO	DJECT DA	TA	ate AUG 1981
5. PROGRAM ELEMENT 6. CATEGORY CODE 7. PROJECT NUMBER 8. PROJECT COST (\$000) 9. COST ESTIMATES 9. COST ESTIMATES \$3,100 ITEM U/M QUANTITY COST (\$000) MECHANICS SCHOOL SF 26,961 86.23 2,325 BUILDING SF 26,961 86.23 2,325 BUILT-IN EQUIPMENT LS - - (160 SUPPORTING FACILITIES LS - - (160 SUPORTING FACILITIES LS - - (160 SUPORTING FACILITING, FENCING, UTILITIES, AND LS - - (216 SUBTOTAL LS - - (216 CONTINGENCY - 10% LS - - (216) TOTAL CONTRACT COST SOPERVISION, INSPECTION, & OVERHEAD - 5.5% LS - - SUPERVISION, INSPECTION, & OVERHEAD - 5.5% LS - - 163 TOTAL CONTRACT COST Sond masonry walls. Built-up roof over insulation and and interior support systems; i.e. air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work, and utilit connected. 11. REQUIREMENT	MARINE CORPS	BASE		0F-35 M	ECHANICS	SCHOOL,	MCSSS
9. COST ESTIMATES ITEM UM QUANTITY UNIT COST (SOST) MECHANICS SCHOOL SF 26,961 86.23 2,325 BUILDING SF 26,961 75.00 (2,022 BUILT-IN EQUIPMENT LS - - (303 SUPPORTING FACILITIES LS - - (303 SUPPORTING FACILITIES LS - - (160 SECURITY LIGHTING, FENCING, UTILITIES, AND LS - - (216 SUPTOTAL LS - - 2,701 CONTINGENCY - 10% LS - - 2,701 SUPENTISION, INSPECTION, & OVERHEAD - 5.5% LS - - 16.3 SUPENTISION, INSPECTION, & OVERHEAD - 5.5% LS - - 3,100 INSTALLED EQUIP - OTHER APPROPRIATIONS -		And the second		NUMBER	8. PROJ	ECT COST (\$000)
ITEMUVMQUANTITYUNIT COSTCOST (\$000)MECHANICS SCHOOL BUILDING BUILDING BUILT-IN EQUIPMENTSF26,96186.232,325BUILT-IN EQUIPMENTLS(303SUPPORTING FACILITIES PAVEMENTS, RIGID AND FLEXIBLE 		171-20	P	-808		\$3,100	
ITEMOVMCOANTRYCOST(\$000)MECHANICS SCHOOLSF26,96186.232,325BUILDINGSF26,96175.00(2,022BUILT-IN EQUIPMENTLS(303SUPPORTING FACILITIESLS(160)SECURITY LIGHTING, FENCING, UTILITIES, ANDLS(270)SITE IMPROVEMENTLS(270)CONTINGENCY - 10%LS2,701TOTAL CONTRACT COSTLS2,701SUPERVISION, INSPECTION, & OVERHEAD - 5.5%LSTOTAL REQUEST (ROUNDED)LSINSTALLED EQUIP - OTHER APPROPRIATIONSTORAL REQUEST SUPPORT Systems; i.e. air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work, and utilit connected.11. REQUIREMENTSPROJECT: Construct Increment I of applied/academic facilities for Motor Transport School, MCSSS.REQUIREMENT: Adequate facilities are required for training of military personnel in 2nd, 3rd, and 4th echelon maintenance of Marine Corps equipment. <t< td=""><td></td><td>9. 0</td><td>OST ESTIMAT</td><td>ES</td><td></td><td></td><td>No.</td></t<>		9. 0	OST ESTIMAT	ES			No.
BUILDING SF 26,961 75.00 (2,022 BUILT-IN EQUIPMENT LS - - (303 SUPPORTING FACILITIES LS - - (303 SUPPORTING FACILITIES LS - - (160 PAVEMENTS, RIGID AND FLEXIBLE LS - - (2,022 SUBTOTAL CONTINGENCY LS - - (160 CONTINCENCY 10% LS - - (2,702 CONTINCENCY 10% LS - - (2,022 SUPERVISION, INSPECTION, & OVERHEAD 5.5% LS - - 2,701 SUPERVISION, INSPECTION, & OVERHEAD 5.5% LS - - 163 TOTAL CONTRACT COST LS - - 3,100 INSTALLED EQUIP OTHER APPROPRIATIONS -		ITEM		U/М	QUANTITY		
 Construct permanent applied facility with piles, reinforced concrete foundation, floors, and masonry walls. Built-up roof over insulation and and interior support systems; i.e. air conditioning, compressed air, sprinkler, fire alarm, plumbing, exterior pavement, site work, and utilit connected. <u>PROJECT</u>: Construct Increment I of applied/academic facilities for Motor Transport School, MCSSS. <u>REQUIREMENT</u>: Adequate facilities are required for training of military personnel in 2nd, 3rd, and 4th echelon maintenance of Marine Corps equip- ment. <u>CURRENT SITUATION</u>: Existing Motor Transport School facilities are locate in inadequate WW-II masonry buildings. <u>IMPACT IF NOT PROVIDED</u>: Continued training of Marine Corps Personnel in inadequate facilities which impairs the effectiveness of the training 	BUILDING BUILT-IN EC SUPPORTING F/ PAVEMENTS, SECURITY LI SITE IMPI SUBTOTAL CONTINGENCY TOTAL CONTRAC SUPERVISION, TOTAL REQUES	QUIPMENT ACILITIES RIGID AND FLEXIBLE IGHTING, FENCING, UTI ROVEMENT - 10% CT COST INSPECTION, & OVERHEA T (ROUNDED)	AD - 5.5%	SF LS LS LS LS LS LS LS LS	26,961		2,325 (2,022) (303) 376 (160) (216) 2,701 2,701 2,971 163 3,100
	10. DESCRIPTION O	F PROPOSED CONSTRUCTION		piles	ainfanas		to.
	Construct per foundation, and interior sprinkler, f connected. 11. REQUIREM <u>PROJECT</u> : Con Transport Sc <u>REQUIREMENT</u> : personnel in ment. <u>CURRENT SITU</u> in inadequate <u>IMPACT IF NO</u> inadequate f	rmanent applied facil floors, and masonry w support systems; i.e ire alarm, plumbing, ENTS nstruct Increment I o hool, MCSSS. Adequate facilities 2nd, 3rd, and 4th ec <u>ATION:</u> Existing Moto e WW-II masonry build T PROVIDED: Continue	alls. Bui air cond exterior p f applied/ are requi helon mair r Transpor ings. d training	ilt-up r ditionin pavement /academi ired for ntenance rt Schoo g of Mar	oof over g, compre , site wo c facilit training of Marir l facilit ine Corps	insulat essed ai ork, and thes for g of mil he Corps ties are s Persor	ion and r, utilit Motor itary equip- locate

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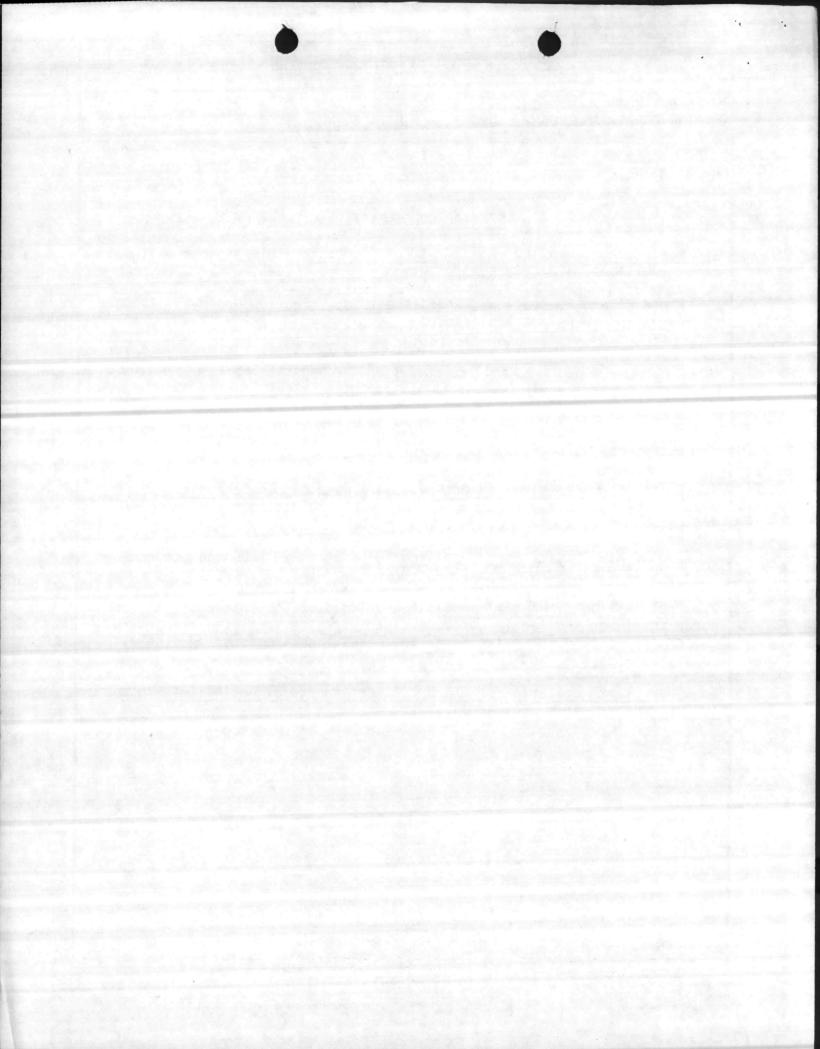
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COMPONENT		2. DATE
NAVY FY 1984 MILITARY CONSTRUCTION PROJEC	T DATA	1 AUG 1981
MARINE CORPS BASE, CAMP LEJEUNE, NORTH CAROLINA 2854	2	
I. PROJECT TITLE	5. PROJE	ECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREMENT 1)	-	P-808
SPECIAL CONSIDERATIONS	di k ja	
1. Pollution Prevention, Abatement, and Control: The cause additional air or water pollution.	is projec	t will not
2. Flood Hazard Evaluation: Requirements of Executive (Flood Hazards) are not applicable.	ve Order	No. 11296
3. <u>Environmental Impact</u> : The project Environmental (EIA) is being written and will be processed through the Board. No adverse environmental impact is anticipated.	local EI	sessment A Review
4. Fallout Shelter Construction: Fallout shelter proporated in this project.	otection	is not incor
5. Design for Accessibility of Physically Handicappe visions for physically handicapped personnel are not project.	d Personn required	el: Pro- in this
6. Use of Air Conditioning: Ceiling "U" factors wil WITH DOD 4270.1-M.	1 be made	to conform
7. Preservation of Historical Sites and Structures: not directly or indirectly affect a district. site, b object, or setting which is listed in the National Re porsesses a significant quality of American history.	uilding.	structure,
8. <u>"New Start" Criteria for Commercial or Industrial</u> (OMB Circular A-76): Not applicable.	Activiti	es Program

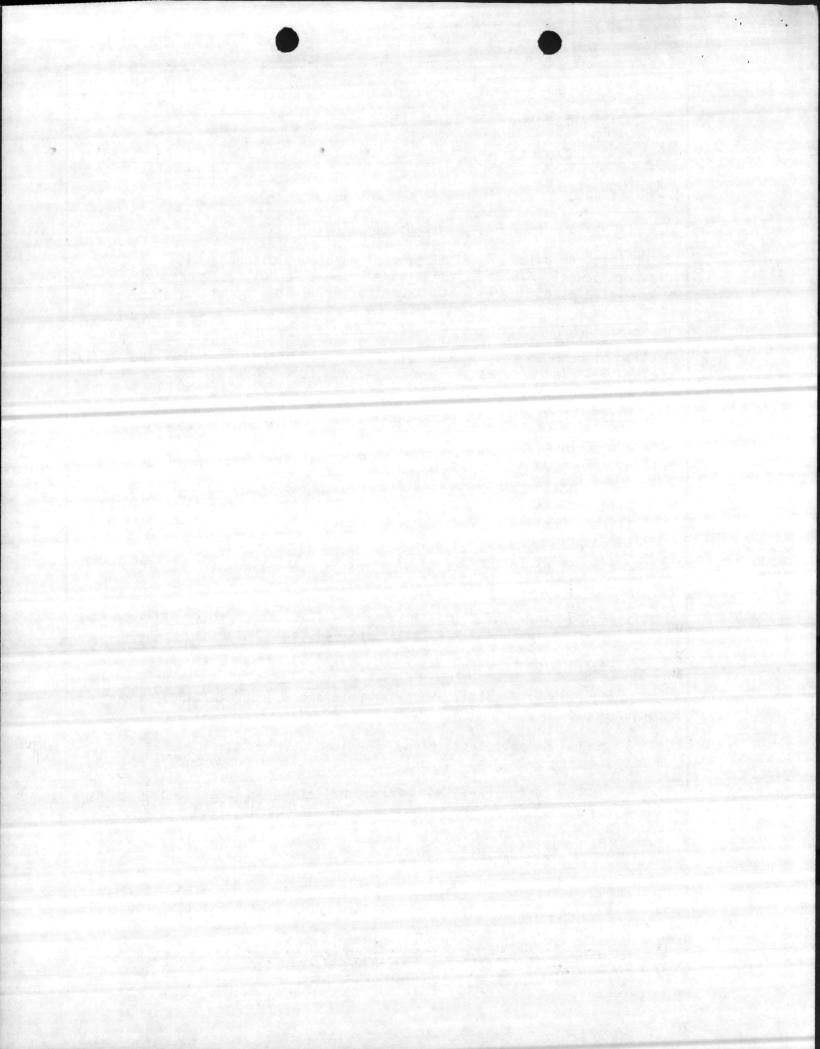
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1. COMPONENT	FY 19 84 MILITARY CONSTRUCTION PROJECT DAT	2. DATE
NAVY		A 1 AUG 1981
3. INSTALLATION		
	BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
A. PROJECT TITLE		ROJECT NUMBER
OF-35 MECHAN	ICS SCHOOL, MCSSS (INCREMENT 1)	P-808
	FACILITY STUDY	
Transport Sc	Provide 26,961 SF of applied/academic school a nool, Marine Corps Service Support School, as In lanned 99,079 SF of training facilities.	
percentage o duration of workload wil	and Planned Future Workload with Regard to this f usage for this facility is 100 percent of the need is indefinite. It can only be anticipated l increase as the new FLS system is introduced i ing expanded teaching capabilities and facilitie	time, and the that the future nto the Marine
3. Descript	ion of Proposed Construction.	
a. <u>Type</u>	of Construction.	
masonry cons	Construct a permanent instruction facility of st truction with pile and reinforced concrete found sonry walls, built-up roof, insulation, interior ems.	lation, floors,
(2) fencing and	Pollution controls, walks and parking pavements, lighting, and site improvements.	security
b. <u>Repl</u> satisfy defi	acement. Existing facilities will be temporaril ciencies until new facilities are constructed.	y utilized to
c. Desc	ription of Work to be Done.	
	Primary Facility. Modular reinforced concrete/s pile foundation.	teel/masonry
	(a) <u>Support Facilities</u> . Flexible pavements, sid cing and lighting, utilities, and site improveme	
	Energy Conservation. Energy-efficient equipment for maximum energy conservation will be utilized	
	<u>Collateral Equipment.</u> The collateral equipment der separate cover.	list will be
equipment, s will be util	Supporting Facilities. Special piling, foundati ite improvements, and pollution abatement. Exis ized during period of dual instruction as new FL o the Motor Transport organization.	ting facilities

S/N 0102-LF-001-3915



1. COMPONENT NAVY	FY 19_84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 AUG 1981
3. INSTALLATION	ND LOCATION	1 1 100 1001
MARINE CORPS	BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	Sector Constanting of the
4. PROJECT TITLE	5. PRO	JECT NUMBER
OF-35 MECHAN	CS SCHOOL, MCSSS (INCREMENT 1)	P-808
data derived (DOD 4270.1-0	imate. Area cost factor for Camp Lejeune, NC is C form the Military Construction Cost Review Guide, CG) to provide for this facility, escalated to FY-	FY-82
5. Justifica	tion for Project and for Scope of Project.	
a. Just	fication for Project.	
(1) I Transport Sch instruction.	Project. Proposed facilities are required to prov cool with adequate facilities to perform academic	ide the Moto and applied
(2) (WW-II masonry lighting, etc	Current Situation. Existing school facilities are type buildings totally inadequate due to size, c	inadequate onfiguration
(3) <u>1</u> school facili instruction f	<pre>mpact if not Provided: Continued inefficient ope ties that do not meet minimum requirements for ap acilities.</pre>	ration of plied and
(Increment 1)	fication for Scope of Project. The project scope is the minimum size facility that can meet the s Motor Transport School for initial phase of the 13.	pace require.
6. Equipment	Provided from Other Appropriations: Not applica	ble.
. <u>Common Su</u> available in	pport Facilities. There are no common support factor the MCSSS area.	cilities
\$17,920 per y	Other Resources. The project will require approx ear in increased O&MMC funds for increased utility s. No additional personnel will be required to o	v services

and operations. No additional personnel will be required to operate this facility. The project will enhance and improve the morale of personnel presently working in inadequate facilities. Proposed construction should be responsible to the challenges presented by the energy situation and comply with the requirements of Executive Order 12003 of 20 July 1977 and implemented by NAVFACINST 4100.5A.

UTILITY REQUIREMENTS

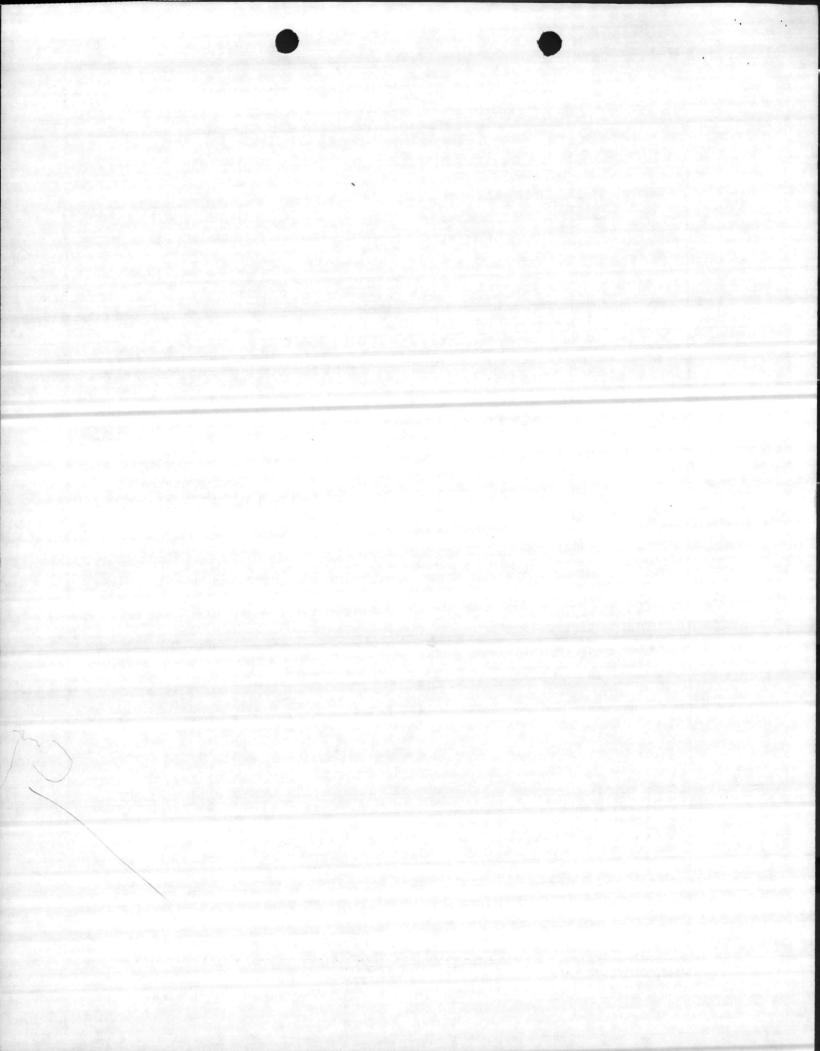
a. Electricity:

Consumption71,695KWH/yrPeak Demand58KWAvg. Demand41KW

DD 1 DEC 76 1391c

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO. 2 OF 7



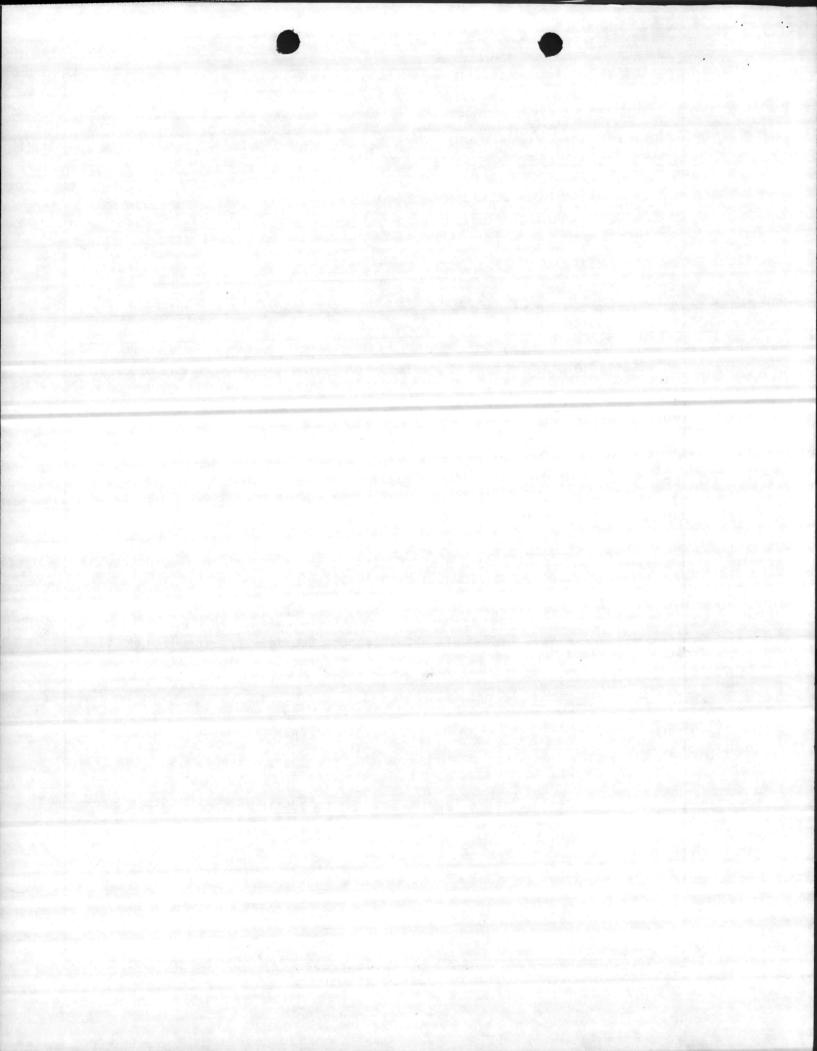
NAVY	FY 19_84_MILITARY CONST	RUCTION PROJECT DATA	2. DATE 1 AUG 198
MARINE CORF	S BASE, CAMP LEJEUNE, NORTH	CAROLINA 28542	
4. PROJECT TITL	E	5. PRC	DJECT NUMBER
OF-35 MECHA	NICS SCHOOL, MCSSS (INCREMEN	NT 1)	P-808
b. Ste	Consumption 23,	066,688 lbs/yr ,706 lbs/yr	
c. Coa	1:4	05.2 tons/yr	
d. Ade	quate utility requirements a	re available.	
9. <u>Siting</u> area. See	of the Project. The facili enclosure (1).	ty is located in the M	ontford Poin
10. Other	Graphic Presentations, inclu	ding Photographs. See	enclosure (
energy cons is a milita located in 12. <u>Enviro</u> being writt	Montford Point Area. Econo umption savings to be realiz ry operational project in su this area. <u>nmental Impact</u> . An Environm en and will be processed thr environmental impact is anti	ed from efficient opera pport of an operationa ental Impact Assessmen ough the local EIA Rev	ations. This 1 mission t (EIA) is
13. <u>Quanti</u>	tative Data.		
	tomotive Intermediate Mainte student stations).	nance Course - 5/4 ton	High Mobili
(1) Category Code 171-10:		
		26 = 1,170 SF 26 = <u>780</u> SF	·
	NET SF	1,950 SF	
	NET SF Circulation & Service Area		
(2 Vehicle (26	Circulation & Service Area	- <u>234</u> SF 2,184 SF	nes - 5/4 to

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1. COMPONE		FY 19 84 MILITARY CONST	BUCTION	PROJEC		2. DATE
NAV			noemon	moved		1 AUG 1981
		S BASE, CAMP LEJEUNE, NORTH	CAROLINA	28542	2	
4. PROJECT					5. PR	OJECT NUMBER
OF-35 M	ECHA	NICS SCHOOL, MCSSS (INCREME	NT 1)			P-808
		Laboratory - 11 Support Space - 3	50 x 13 = 75 x 1 =	1,950 375	SF SF	
	1	NET SF:		2,325	SF	
		Circulation & Service Area		279	SF	
		GROSS SF:		2,604	SF	
		omotive Intermediate Mainter ssrooms-Laboratories (2).	nance Cour	rse - I	Fuel and	d Electrical
	(1)	Category Code 171-10:				
		Classroom - Support Space -	45 x 26 = 30 x 26 =			
		NET SF:		1,950	SF	
		Circulation & Service Areas	5	234	SF	
		GROSS SF PER LAB:	x	2,184 2		
		TOTAL GROSS SF:		4,368	SF	
	(2)	Category Code 171-20:				
		Cranking Sys Components - Charging Sys Components - Fuel Sys Components -	4 Models 4 Models 4 Models			
	•	26 student station requirer	nents:			
			00 x 13 = 75 x 1 =			
		NET SF:		1,675	SF	
		Circulation & Service Areas	s (12%)	200	SF	
		GROSS SF PER LAB:	v	1,875		
		TOTAL GROSS SF:	Х	3,750	LABS SF	

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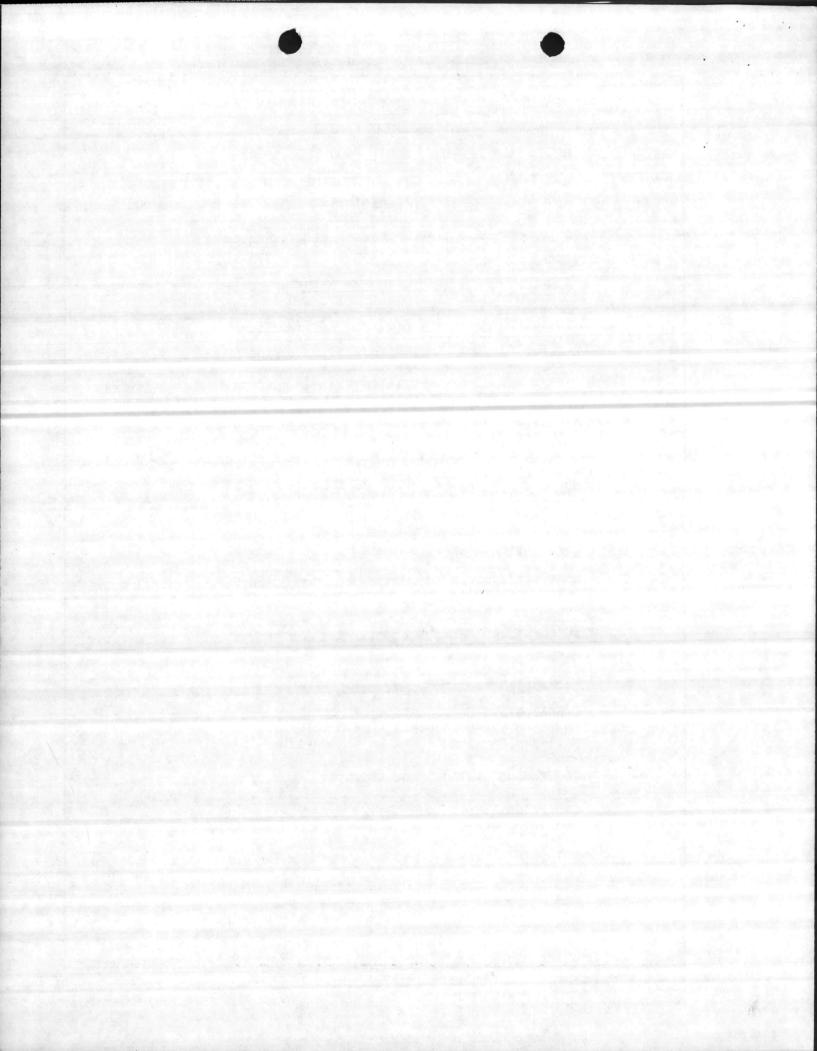
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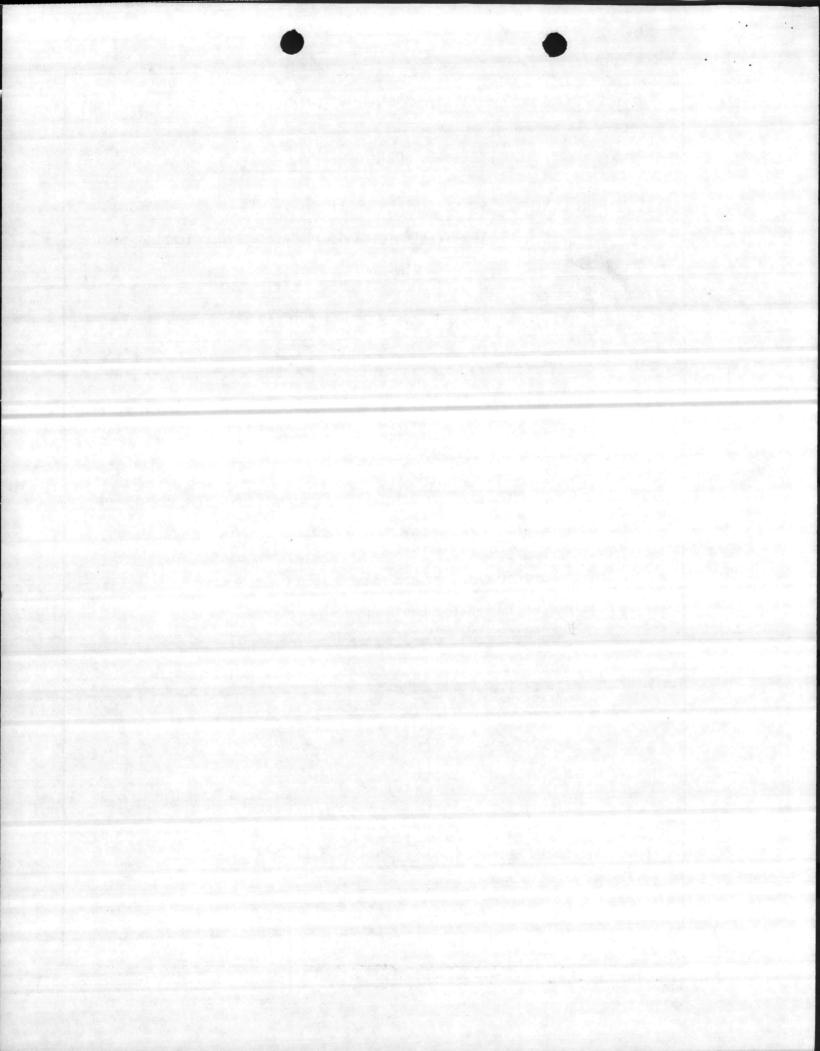
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NA VY	FY 19.84 MILITARY CONSTRUC	CTION PROJECT	DATA 1 AUG 1981
B. INSTALLATION A	4 Contractor Contractor		an a
	BASE, CAMP LEJEUNE, NORTH CAR	ROLINA 28542	
. PROJECT TITLE			5. PROJECT NUMBER
OF-35 MECHANI	ICS SCHOOL, MCSSS (INCREMENT)	1)	P-808
c. Auto	omotive Intermediate Maintenar	nce Course - Pov	ver Transmission
Classroom-Lat	poratory.		
(1)	Category Code 171-10, 26 stud	lent stations:	
	Classroom - 45 x 26 =	= 1,170 SF	
	Classroom - 45 x 26 = Support Space - 30 x 26 =	= <u>780</u> SF	
	NET SF:	1,950 SF	
	Circulation & Service Areas	234 SF	
	GROSS SF:	2,184 SF	
		and the second	
(2)	Category Code 171-20:	SF EA TOTAL	SF
	13 - 5/4 T Transmissions	40 520	
	13 - 5/4 T Transfers	30 390	
A	13 - 5/4 Axle Assemblies	50 650	
	13 - 5/4 Steering Gear Assy	28 364	
	Material Handling Equipment Maneuvering Space:	500	
	TOTAL SF:	2,424	
	26 student stations		
	Laboratory - 2,424 x 1 = Support Space - 375 x 1 =		
	NET SF:	2,799 SF	
	Circulation & Service Areas (12%)	<u>336</u> SF	
	GROSS SF:	3,135 SF	



I. COMPONE NAVY		FY 19 84 MILITARY CONSTRUCTION PROJECT DAT	A 1 AUG 1981
3. INSTALLA	TION	AND LOCATION	
MARINE C	ORPS	BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
4. PROJECT	TITLE	5.1	PROJECT NUMBER
0F-35 ME	CHAN	ICS SCHOOL, MCSSS (INCREMENT 1)	P-808
d. <u>Module</u> .	Auto	omotive Organizational Maintenance Course - 5/4	<u>T High-Mo</u>
	40 9	student stations	
	(1)	Category Code 171-10:	
		Classroom - $20 \times 40 = 800 \text{ SF}$ Support Space - $2.25 \times 800 = 1800 \text{ SF}$	
		NET SF: 2600 SF	
		Circulation & Service Areas (12%) SF	
		GROSS SF: 2,912 SF	
	(2)	Category Code 171-20:	
		8 Operational 5/4 T High Mobility Tactical Veh	icles
		(approx floor space required: 590 SF each)	
		Laboratory - Support Space - $590 \times 8 = 4720 \text{ SF}$ $480 \times 1 = 480 \text{ SF}$	
xit.		NET SF: 5200 SF	
		Circulation & Service Areas (12%)624 SF	
		GROSS SF: 5824 SF	
e.	SUM	MARY:	
		TOTAL ACADEMIC: 65,591 SF TOTAL APPLIED: 33,488 SF	
		GRAND TOTAL: 99,079 SF	
14. <u>Mai</u>	inten	ance Facilities: Not applicable.	

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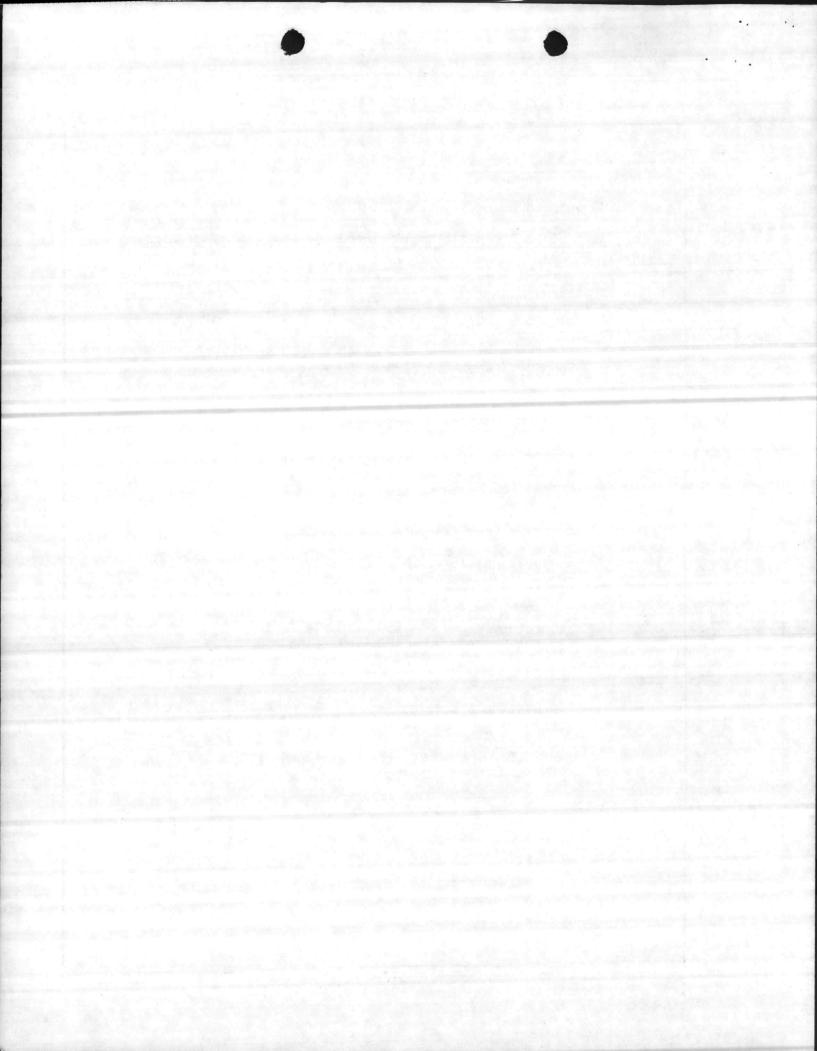
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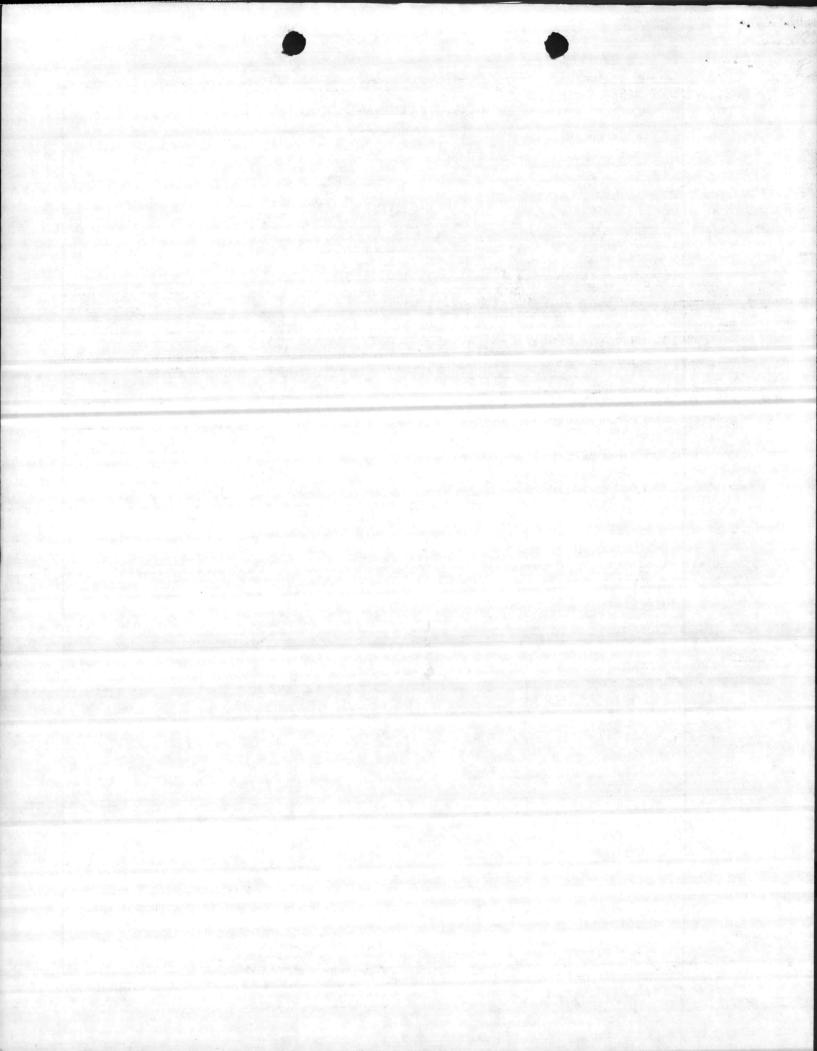


1. COMPONENT NAVY	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	A 1 AUG 1981
3. INSTALLATION MARINE CORPS	BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
4. PROJECT TITLE OF-35 MECHAN	ICS SCHOOL, MCSSS (INCREMENT 1)	P-808
 <u>Relocat</u> <u>Storage</u> <u>Hazard</u> <u>Hazard</u> <u>Hazard</u> 	<u>Welfare, and Recreation Facilities</u> : Not applic <u>ion Facilities</u> : Not applicable. <u>Facilities</u> : Not applicable. <u>Identification, Assessment, and Analysis</u> : The p l be a Motor Transport School facility. The fol zardous conditions will be considered during the	roposed lowing
b. Bat	aust fumes. tery acid fumes. oline/diesel fumes.	

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20-808

PW0:408:VN:bjd P-808/P-809 1 7 SEP 1981

From: Commanding General

To: Commanding Officer, Marine Corps Service Support Schools

Subj: FY-84 MCON Project P-808, OF-35 Mechanics School, MCSSS (Increment 1), and FY-85 MCON Project P-809, OF-35 Mechanics School (Increment 2); request for collateral equipment requirements

Ref: (a) CG MCB CLNC 1tr FAC:ACA:mkc of 10 Aug 1981

Encl: (1) DD Form of 1 Aug 81 for Project P-808 (2) DD Form of 1 Aug 81 for Project P-809 (3) Sample of Collateral Equipment Requirements List

1. Reference (a) forwarded this Command's FY-84 through FY-88 Military Construction Program and stated that collateral equipment requirements for the subject projects would be forwarded under separate correspondence.

2. Two separate lists of collateral equipment to support these proposed facilities should be submitted to the Public Works Department (PWD), Planning Branch, as soon as possible.

3. Enclosures (1) and (2) provide project information to aid you in this task. For further project information, contact Mr. Vann Marshburn, PWD Planning Branch, on extension 1833. Enclosure (3) is a sample format for submitting this information.

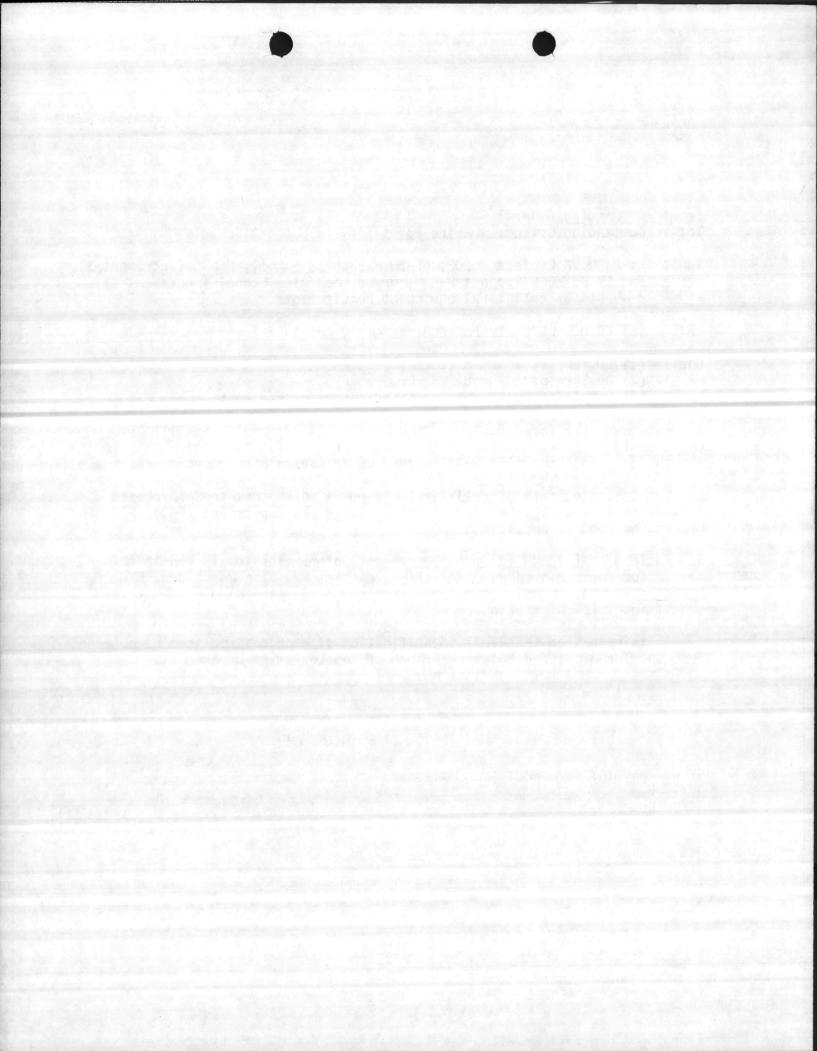
4. It is requested that full identification of each desired item be obtained from the Technical and Research Branch of the Logistics Department.

Pw Planning

K. P. MILLICE, Jr. By direction

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

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NAVY	FY 1	9 <u>84</u> MILITARY CO	NSTRUC	TION	PRO	DJECT DA	TA	AUG 1981
MARINE CORPS	BASE	ATION H CAROLINA 28542	2	0F-3	35 M	ECHANICS ENT 1)	SCHOOL,	MCSSS
PROGRAM ELEM	ENT	6. CATEGORY CODE	7. PROJEC	т NUM Р-808		8. PROJ	ест соят (\$3,100	
		9. CO	ST ESTIMA	TES		Sector Constant		
		ITEM			U/M	QUANTITY	UNIT COST	COST (\$000)
SECURITY L SITE IMP SUBTOTAL CONTINGENCY TOTAL CONTRA SUPERVISION, TOTAL REQUES	QUIPME ACILIT RIGID IGHTIN ROVEME - 10% CT COS INSPE T (ROU	TES AND FLEXIBLE IG, FENCING, UTILI INT T CTION, & OVERHEAD	0 - 5.5%		SF LS LS LS LS LS LS LS LS LS LS -	26,961 26,961 - - - - - - - - - - -	86.23 75.00 - - - - - - - - - - - - -	2,325 (2,022) (303) 376 (160) (216) 2,701 2,701 2,971 <u>163</u> 3,100 -
and interior sprinkler, f connected. <u>PROJECT:</u> Co <u>Transport So</u> <u>REQUIREMENT:</u> <u>Dersonnel in</u> <u>ment.</u> <u>CURRENT SITU</u> in inadequat IMPACT IF NO	ENTS IENTS INStruct hool, Adec 2nd, JATION: Ce WW-I	t Increment I of MCSSS. Muate facilities a 3rd, and 4th echo Existing Motor I masonry buildin (IDED: Continued ties which impairs	air con xterior applied are requ elon mai Transpongs. trainir	ditic paven /acac ired ntena rt Sc g of	demi for ance choo Mar	g, compro , site we c facili trainin of Mari l facili ine Corp	essed ai ork, and ties for g of mil ne Corps ties are s Persor	r, I utiliti Motor litary s equip- e located nnel in
program.								

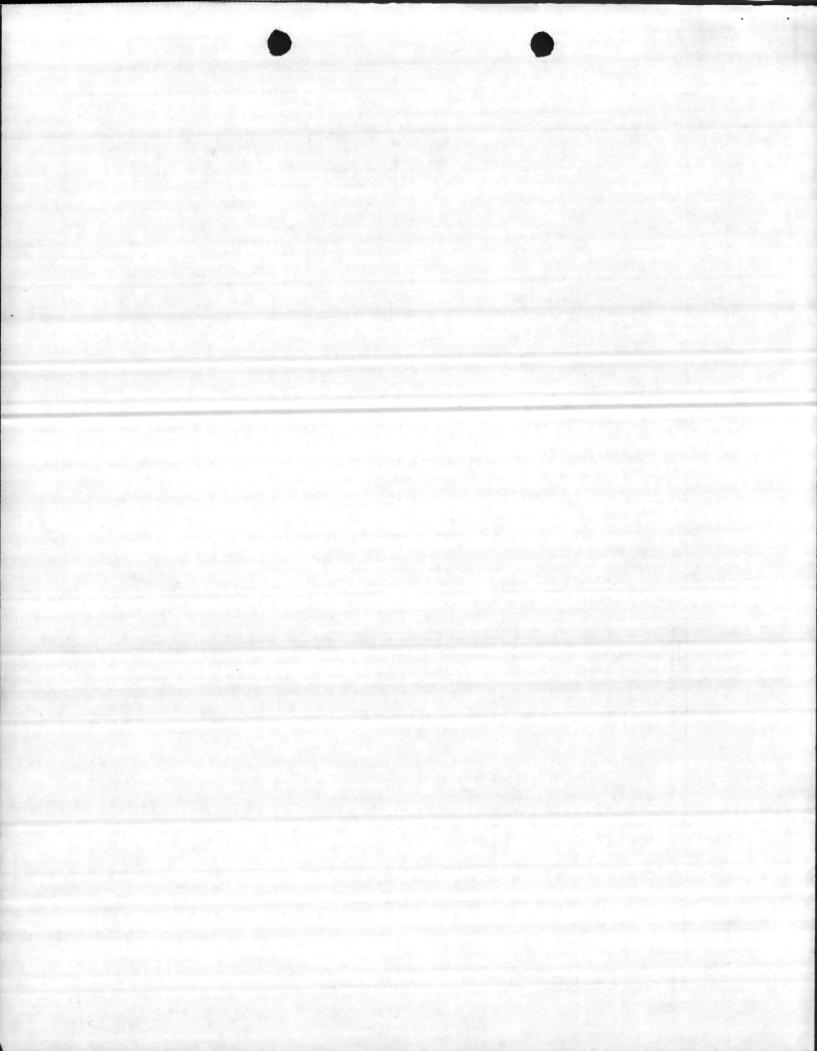
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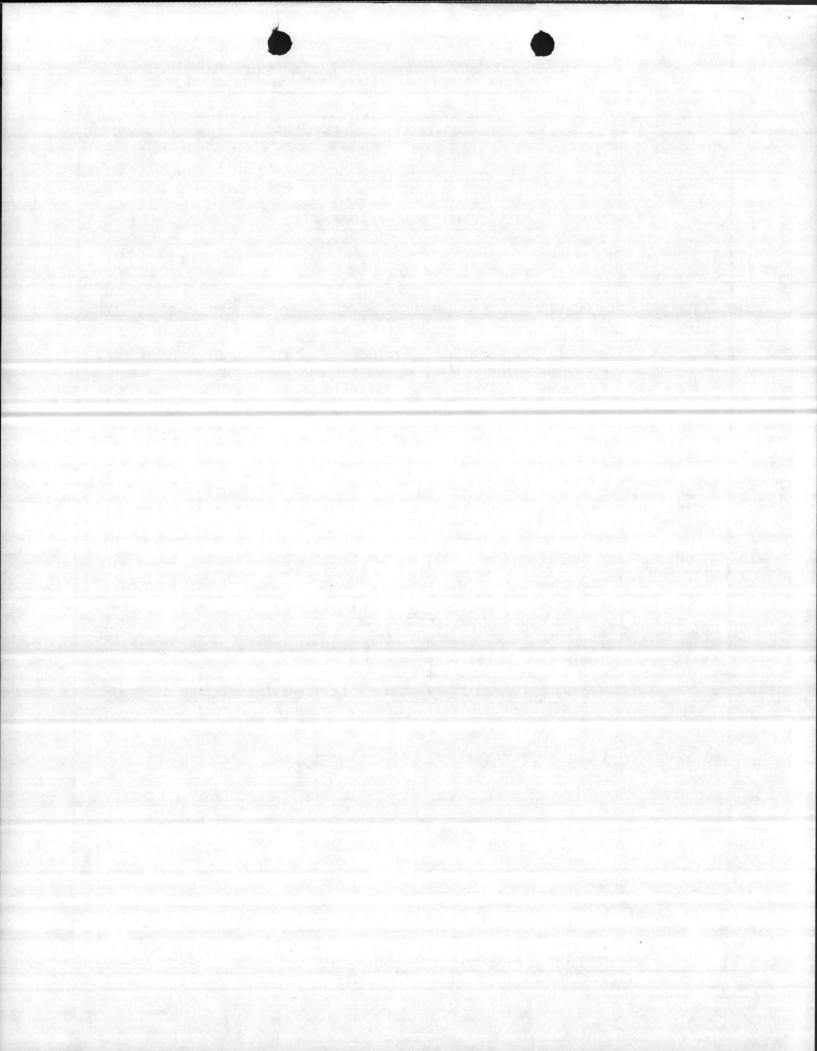
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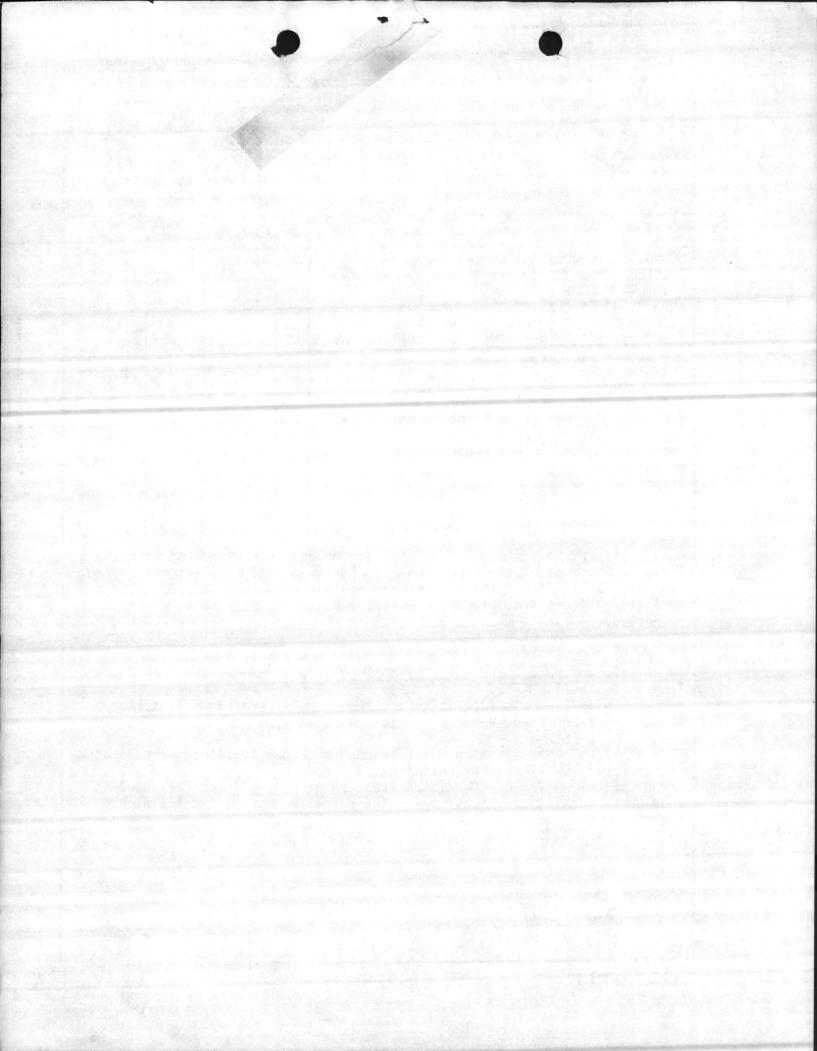
COMPONENT		2. DATE
NAVY	FY 1984 MILITARY CONSTRUCTION PROJECT DATA	1 AUG 1981
INSTALLATION	ND LOCATION	1
MARINE CORPS	BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
PROJECT TITLE	5. PRO	JECT NUMBER
OF-35 MECHAN	ICS SCHOOL, MCSSS (INCREMENT 1)	P-808
and the second second	SPECIAL CONSIDERATIONS	
	n Prevention, Abatement, and Control: This proje onal air or water pollution.	ct will not
	zard Evaluation: Requirements of Executive Order ds) are not applicable.	No. 11296
(EIA) is beir	ental Impact: The project Environmental Impact And will be processed through the local Environmental impact is anticipated.	ssessment IA Review
porated in t	Shelter Construction: Fallout shelter protection his project.	
visions for project.	or Accessibility of Physically Handicapped Person physically handicapped personnel are not required	in this
6. Use of A WITH DOD 427	<pre>ir Conditioning: Ceiling "U" factors will be mad 0.1-M.</pre>	e to conform
not directly object, or s	tion of Historical Sites and Structures: This pr or indirectly affect a district, site, building, etting which is listed in the National Register c significant quality of American history.	structure,
8. "New Sta (OMB Circula	rt" Criteria for Commercial or Industrial Activit r A-76): Not applicable.	ies Program
	· · · · ·	
		the second
		2012년 11
	and the second	

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1. COMPONENT NAVY	EV 10	9_84 MILIT	ARY COM	ISTRUC	TION P	ROIECT	DAT	A I	ATE
3. INSTALLATION		and the second second			1. The second	CT TITLE	DAI	- 1	AUG 198
MARINE CORPS CAMP LEJEUNE	BASE		28542		0F-35			SCHOOL,	MCSSS
5. PROGRAM ELEM	IENT	6. CATEGORY	CODE	7. PROJEC	CT NUMBE	R 8.	PROJE	CT COST (\$000)
		171-2	0		P-808			\$3,100	1
			9. COS	TESTIMA	TES	1	- 1		
<u>a si inc</u>		ITEM		Niese	U/I	1	-	COST	COST (\$000)
MECHANICS SC BUILDING	HOOL				S			86.23	2,325
BUILT-IN E	OUIPMEN	T			L		1	-	(303
SUPPORTING F				- and the second	L			-	376
PAVEMENTS,	RIGID	AND FLEXI			L	- 1	1		(160
SECURITY L			, UTILI	TIES, A				-	1
SITE IMP	ROVEMEN	NT			L				(216
SUBTOTAL CONTINGENCY	100				L			- 36	2,701
TOTAL CONTRA		r					1	1	270
SUPERVISION,			VERHEAD	- 5.5%			198		163
TOTAL REQUES				0.00	L			1. C C	3,100
INSTALLED EQ	UIP - (OTHER APPR	OPRIATIO	ONS	-				
Construct pe	rmanent	t applied	facility	y with	piles,	reinfo	rced	concre	te
10. DESCRIPTION C Construct pe foundation, and interior sprinkler, f connected.	floors suppor	t applied , and mason rt systems	facility nry wal ; i.e. a	ls. Bu air con	ilt-up	roof ong, co	ver mpres	insulat ssed ai	ion and r,
Construct pe foundation, and interior sprinkler, f	rmanen floors suppor ire ala MENTS onstruct hool, I Adequ 2nd, 3 JATION: ce WW-I DT PROV	t applied , and mason rt systems arm, plumb t Incremen MCSSS. Jate facil 3rd, and 4 Existing I masonry IDED: Con	facility nry wal ; i.e. a ing, ex t I of a ities an th eche Motor building tinued	ls. Bu air con terior applied re requ lon mai Transpo gs. trainin	dition pavement d/academ nired for intenant ort Schoog of Ma	roof o ng, co nt, sit nic fac or trai ce of M pol fac urine C	ver mpres e won ilit ning aring ilit	insulat ssed ai rk, and nes for of mil e Corps ies are Person	ion and r, lutili Motor itary equip locate

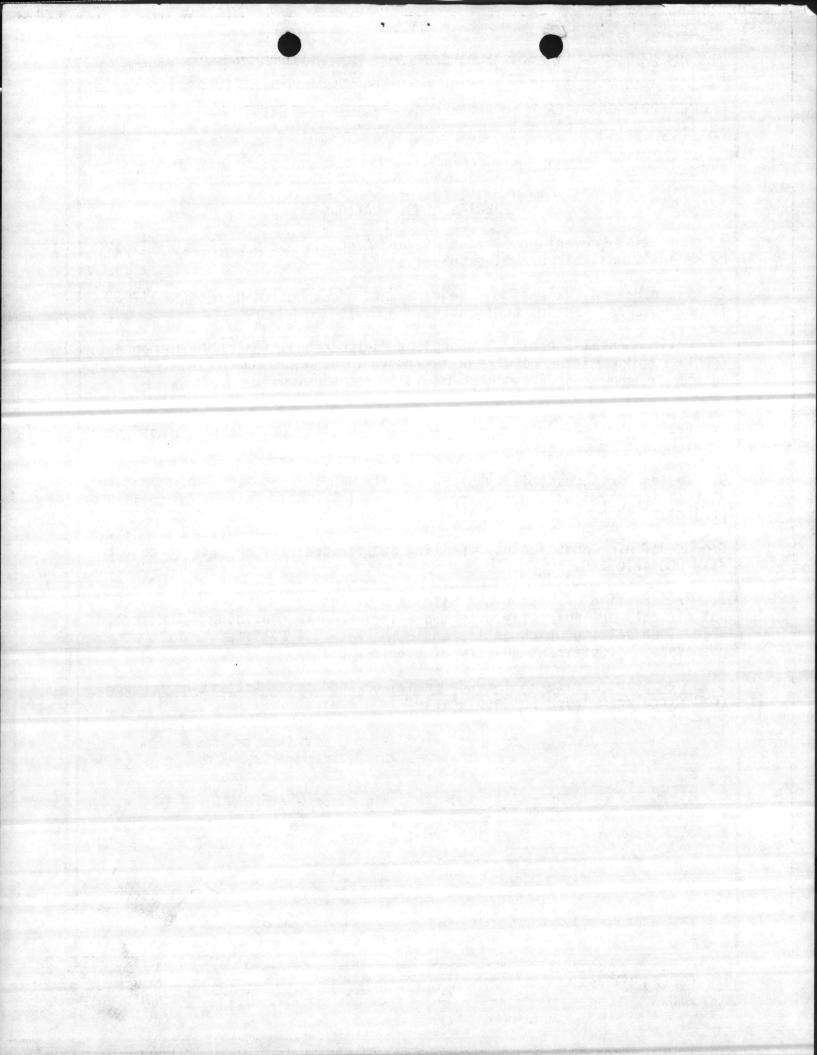
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NAVY FY 19 MILITARY CONST	RUCTION PROJECT I	DATA 1 AUG 1981
. INSTALLATION AND LOCATION		11 AUG 1901
MARINE CORPS BASE, CAMP LEJEUNE, NORTH	I CAROLINA 28542	
PROJECT TITLE		5. PROJECT NUMBER
OF-35 MECHANICS SCHOOL, MCSSS (INCREME	NT 1)	- P-808
SPECIAL CONST	DERATIONS	
1. Pollution Prevention, Abatement, a cause additional air or water pollution	and Control: This	project will not
2. Flood Hazard Evaluation: Requirem (Flood Hazards) are not applicable.	ments of Executive	Order No. 11296
3. Environmental Impact: The project (EIA) is being written and will be proces Board. No adverse environmental impact	ssed through the lo	act Assessment cal EIA Review
4. Fallout Shelter Construction: Fal porated in this project.	lout shelter prote	ction is not incor
5. <u>Design for Accessibility of Physic</u> visions for physically handicapped per project.	ally Handicapped P sonnel are not req	ersonnel: Pro- uired in this
6. Use of Air Conditioning: Ceiling WITH DOD 4270.1-M.	"U" factors will b	e made to conform
7. Preservation of Historical Sites a not cirectly or indirectly affect a di object, or setting which is listed in possesses a significant quality of Ame	strict. site, buil the National Regis	ding. structure.
8. "New Start" Criteria for Commercia (OMB Circular A-76): Not applicable.	l or Industrial Ac	tivities Program
		Care Care
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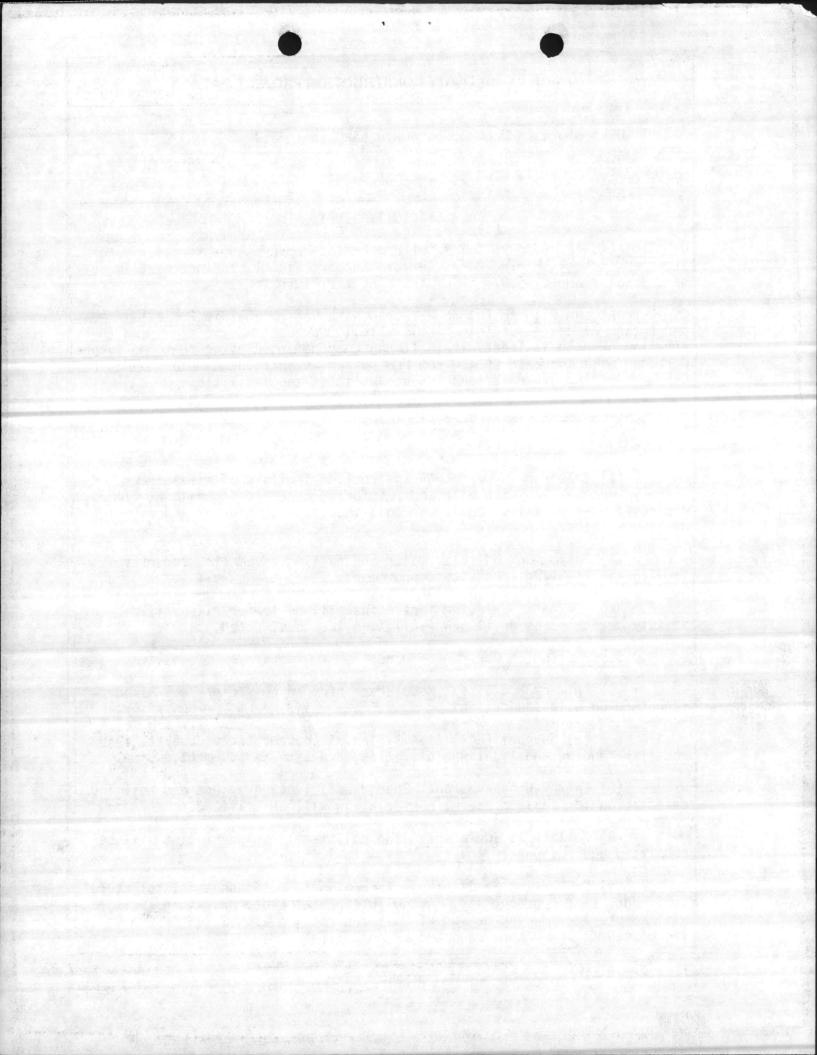


	1. COMPONENT		2. DATE
	NAVY	FY 19_84 MILITARY CONSTRUCTION PROJECT DA	ATA 1 AUG 198
and the second	3. INSTALLATION		
	MARINE CORPS	BÅSE, CAMP LEJEUNE, NORTH CAROLINA 28542	
	4. PROJECT TITLE		5. PROJECT NUMBER
	OF-35 MECHAN	ICS SCHOOL, MCSSS (INCREMENT 1)	P-808
		FACILITY STUDY	e de la companya de la
	Transport Sc	Provide 26,961 SF of applied/academic school hool, Marine Corps Service Support School, as lanned 99,079 SF of training facilities.	l area for Motor Increment 1
	percentage o duration of workload wil	and Planned Future Workload with Regard to the f usage for this facility is 100 percent of the need is indefinite. It can only be anticipate l increase as the new FLS system is introduced ing expanded teaching capabilities and facility	ne time, and the ed that the futur d into the Marine
	3. Descript	ion of Proposed Construction.	
	a. <u>Type</u>	of Construction.	
	masonry cons	Construct a permanent instruction facility of truction with pile and reinforced concrete for sonry walls, built-up roof, insulation, interi ems.	undation, floors.
	(2) fencing and	Pollution controls, walks and parking pavement lighting, and site improvements.	ts, security
	b. <u>Repl</u> satisfy defi	acement. Existing facilities will be temporar ciencies until new facilities are constructed.	ily utilized to
	c. Desc	ription of Work to be Done.	
	(1) structure on	Primary Facility. Modular reinforced concrete pile foundation.	/steel/masonry
	security fen	(a) <u>Support Facilities</u> . Flexible pavements, s cing and lighting, utilities, and site improve	idewalks, ment.
	(2) orientation	Energy Conservation. Energy-efficient equipme for maximum energy conservation will be utiliz	ent and building
	(3) submitted un	<u>Collateral Equipment.</u> The collateral equipmender separate cover.	it list will be
	equipment, s will be util	Supporting Facilities. Special piling, foundate improvements, and pollution abatement. Exized during period of dual instruction as new o the Motor Transport organization.	isting facilitie

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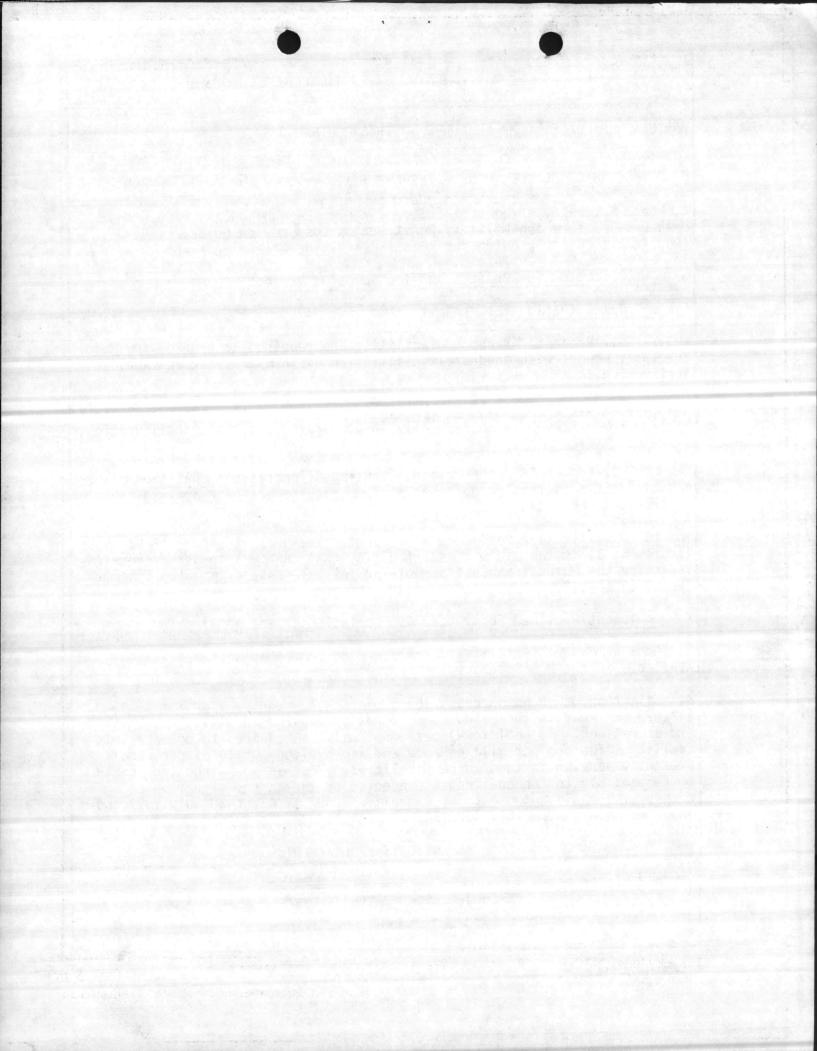
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1. COMPONENT		10.0125
NAVY	FY 19_84 MILITARY CONSTRUCTION PROJ	ECT DATA
3. INSTALLATION		
	BASE, CAMP LEJEUNE, NORTH CAROLINA 285	542
A. PROJECT TITLE		5. PROJECT NUMBER
OF-35 MECHAN	ICS SCHOOL, MCSSS (INCREMENT 1)	P-808
uala derived	imate. Area cost factor for Camp Lejeur form the Military Construction Cost Rev CG) to provide for this facility, escala	iow Guido EV 00
5. Justifica	ation for Project and for Scope of Proje	ect.
a. Just	ification for Project.	
Transport Sch instruction.	Project. Proposed facilities are requir nool with adequate facilities to perform	ed to provide the Motor academic and applied
(2) (W-II masonry lighting, etc	Current Situation. Existing school faci / type buildings totally inadequate due	lities are inadequate to size, configuration,
(3) <u>1</u> school facili	<pre>Impact if not Provided: Continued ineff ities that do not meet minimum requireme facilities.</pre>	icient operation of nts for applied and
Increment I)	fication for Scope of Project. The pro is the minimum size facility that can Motor Transport School for initial pha- 13.	most the snace require
Equipment	Provided from Other Appropriations: No	ot applicable.
. <u>Common Su</u> vailable in	pport Facilities. There are no common s the MCSSS area.	support facilities
nd operation acility. Th resently wor e responsibl omply with t	Other Resources. The project will require ear in increased 0&MMC funds for increases. No additional personnel will be require project will enhance and improve the relation in adequate facilities. Proposed e to the challenges presented by the end he requirements of Executive Order 12003 y NAVFACINST 4100.5A.	sed utility services uired to operate this morale of personnel d construction should ergy situation and
	UTILITY REQUIREMENTS	
a. Elect		
u. Elect	Consumption <u>71,695</u> KWH/yr Peak Demand <u>58</u> KW	

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S/N 0102-LF-001-3915



MANN	EV 19 84 MILITAR	Y CONSTRUCTION PROJECT DA	2. DATE
NAVY		CONSTRUCTION PROJECT DA	1 AUG 198
a stand the second	AND LOCATION	the plantaness of	and the second second
MARINE CORP	S BASE, CAMP LEJEUNE	, NORTH CAROLINA 28542	
4. PROJECT TITLE			PROJECT NUMBER
OF-35 MECHA	NICS SCHOOL, MCSSS (INCREMENT 1)	P-808
b. Ste		ion <u>23,066,688</u> lbs/yr <u>3,706</u> lbs/yr	
c. Coa	l:	405.2tons/yr	
d. Adeo	quate utility require	ements are available.	
			A State of the second second
area. See e	enclosure (1).	e facility is located in the	e Montford Point
10. Other (ranhic Procontation	including Distance	
		s, including Photographs.	
is a militar located in t	y operational project	e realized from efficient of t in support of an operation	perations. This onal mission
located in the second s	y operational projec his area. mental Impact. An E	nvironmental Impact Assess sed through the local FIA	onal mission
located in the second s	y operational project this area. <u>mental Impact</u> . An E in and will be proces invironmental impact	nvironmental Impact Assess sed through the local FIA	onal mission
12. <u>Enviror</u> being writte No adverse e 13. <u>Quantit</u> a. Aut	y operational project this area. <u>mental Impact</u> . An E en and will be proces environmental impact cative Data.	nvironmental Impact Assess sed through the local FIA	onal mission ment (EIA) is Review Board.
15 a militar located in t 12. <u>Enviror</u> being writte No adverse e 13. <u>Quantit</u> a. <u>Aut</u> Vehicle (26	y operational project this area. <u>mental Impact</u> . An E in and will be procest invironmental impact tative Data. <u>comotive Intermediate</u> student stations).	t in support of an operation Environmental Impact Assessing sed through the local EIA is is anticipated.	onal mission ment (EIA) is Review Board.
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located in the located in the locate	y operational project his area. <u>mental Impact</u> . An E n and will be process nvironmental impact <u>ative Data</u> . <u>category Code 171-1</u> <u>Classroom -</u> <u>Support Space -</u> NET SF <u>Circulation & Servi</u> GROSS SF	t in support of an operation Environmental Impact Assessing Seed through the local EIA is anticipated. Maintenance Course - 5/4 for 0: 45 x 26 = 1,170 SF 30 x 26 = 780 SF 1,950 SF ce Area - 234 SF 2,184 SF	onal mission ment (EIA) is Review Board. ton High Mobilit
12. <u>Enviror</u> being writte No adverse e 13. <u>Quantit</u> a. <u>Aut</u> Vehicle (26 (1)	y operational project his area. <u>mental Impact</u> . An E n and will be process nvironmental impact <u>ative Data</u> . <u>category Code 171-1</u> <u>Classroom -</u> <u>Support Space -</u> NET SF <u>Circulation & Servi</u> GROSS SF	t in support of an operation Environmental Impact Assessing See through the local EIA is anticipated. Maintenance Course - 5/4 for 1.0: 45 x 26 = 1,170 SF 30 x 26 =	onal mission ment (EIA) is Review Board. ton High Mobilit
12. <u>Enviror</u> being writte No adverse e 13. <u>Quantit</u> a. <u>Aut</u> Vehicle (26 (1)	y operational project his area. <u>mental Impact</u> . An E n and will be process nvironmental impact <u>ative Data</u> . <u>comotive Intermediate</u> student stations). <u>Category Code 171-1</u> Classroom - Support Space - NET SF Circulation & Servi GROSS SF Category Code 171-2	t in support of an operation Environmental Impact Assessing Seed through the local EIA is anticipated. Maintenance Course - 5/4 for 0: 45 x 26 = 1,170 SF 30 x 26 = 780 SF 1,950 SF ce Area - 234 SF 2,184 SF	onal mission ment (EIA) is Review Board. ton High Mobilit

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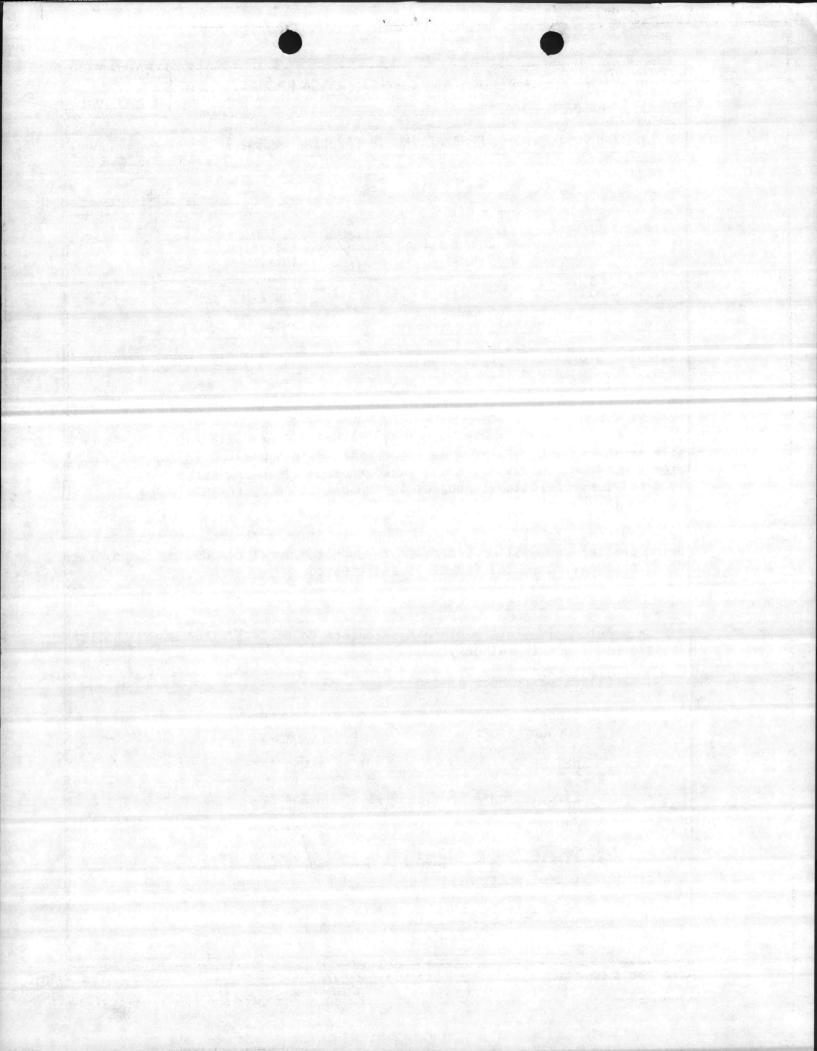
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I. COMPONENT	04		2. DATE
NAVY	FY 19_84 MILITARY CONSTRUCTION	PROJECT DATA	A 1 AUG 1981
and the second sec		and the second second	
	PS BASE, CAMP LEJEUNE, NORTH CAROLINA	28542	
. PROJECT TITL		5. PI	ROJECT NUMBER
OF-35 MECHA	NICS SCHOOL, MCSSS (INCREMENT 1)		P-808
	Laboratory - 150 x 13 = Support Space - 375 x 1 =	1,950 SF 375 SF	
	NET SF:	2,325 SF	
	Circulation & Service Area -	279 SF	
	GROSS SF:	2,604 SF	
b. <u>Aut</u> Systems Cla	comotive Intermediate Maintenance Cou ssrooms-Laboratories (2).	rse - Fuel an	d Electrical
(1)	Category Code 171-10:		
	Classroom - 45 x 26 = 30 x 26 =	1,170 SF 780 SF	
	NET SF:	1,950 SF	
	Circulation & Service Areas	234 SF	
	GROSS SF PER LAB: X	2,184 SF 2 LABS	
	TOTAL GROSS SF:	4,368 SF	
(2)	Category Code 171-20:		
	Cranking Sys Components - 4 Models Charging Sys Components - 4 Models Fuel Sys Components - 4 Models		
	26 student station requirements:		
	Laboratory - 100 x 13 = Support Space - 375 x 1 =		
	NET SF:	1,675 SF	
	Circulation & Service Areas (12%)	SF	
	GROSS SF PER LAB:	1,875 SF 2 LABS	
	TOTAL GROSS SF:	3,750 SF	

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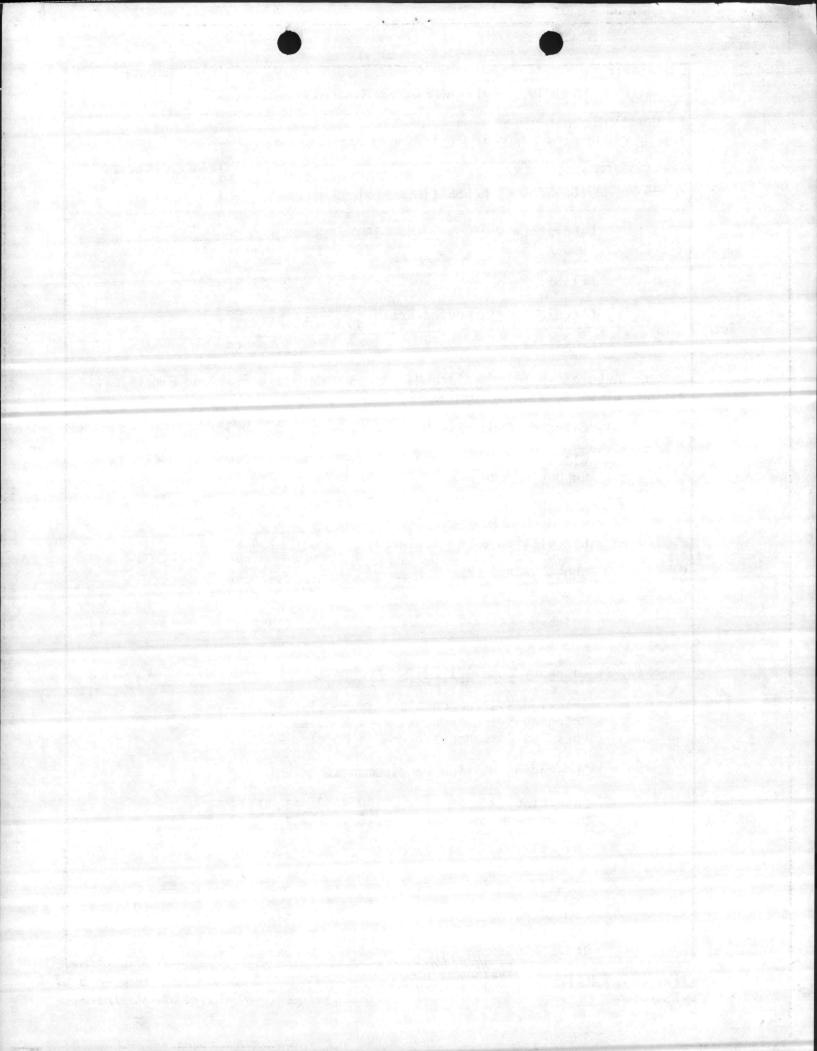
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PAGE NO. 4 OF 7

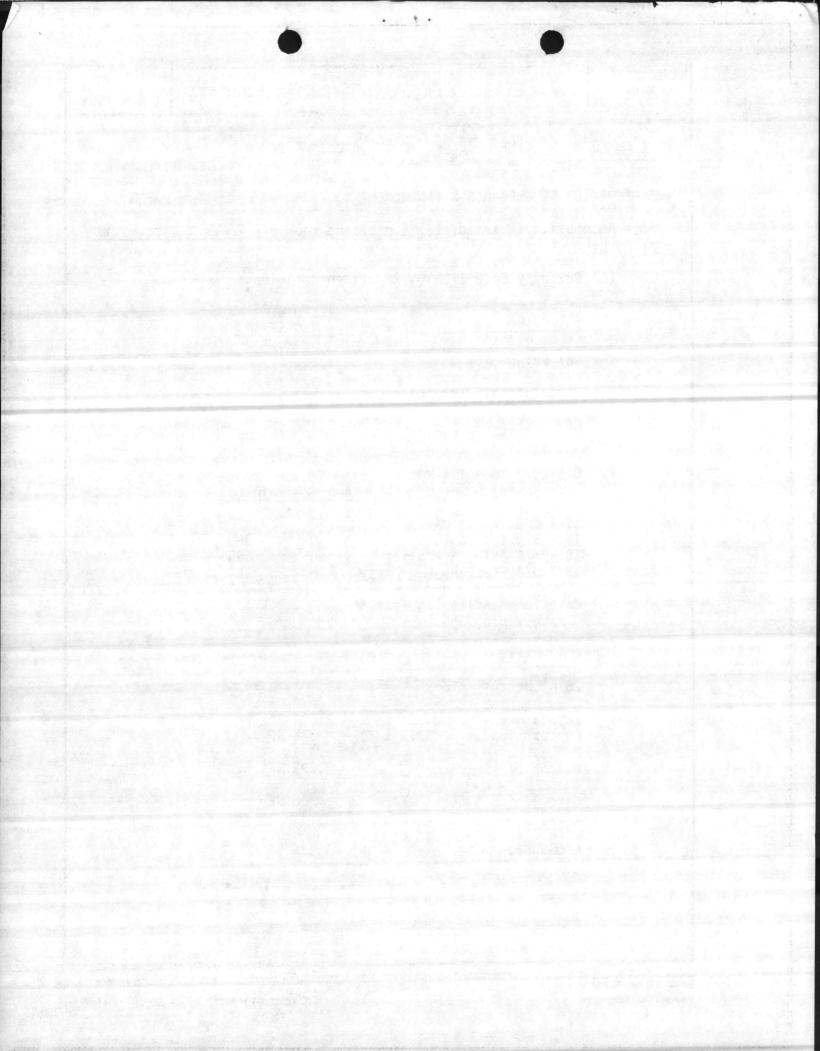


1. COMPONENT			2. DATE
NAVY	FY 19 84 MILITARY CONSTRUC	CTION PROJECT DATA	1 AUG 1981
3. INSTALLATION	AND LOCATION		\$4.00 Con
MARINE CORPS	BASE, CAMP LEJEUNE, NORTH CAP	ROLINA 28542	
4. PROJECT TITLE		5. PR	OJECT NUMBER
OF-35 MECHAN	ICS SCHOOL, MCSSS (INCREMENT	L)	P-808
c. <u>Aut</u> Classroom-La	omotive Intermediate Maintenar	nce Course - Power 1	Transmission
	<u>Category Code 171-10</u> , 26 stud	lent stations:	•
a la la constante			
	Classroom - 45 x 26 = Support Space - 30 x 26 =	= 1,170 SF = <u>780</u> SF	
	NET SF:	1,950 SF	
	Circulation & Service Areas	234_SF	
	GROSS SF:	2,184 SF	
(2)	Category Code 171-20:	SF EA TOTAL SF	
	13 - 5/4 T Transmissions 13 - 5/4 T Transfers	40 520 30 390	
	13 - 5/4 Axle Assemblies	50 650	
	13 - 5/4 Steering Gear Assy	28 364	e de la deservera
	Material Handling Equipment Maneuvering Space:	500	
	TOTAL SF:	2,424	
	26 student stations		
	Laboratory - 2,424 x 1 = Support Space - 375 x 1 =		
	NET SF:	2,799 SF	an a
	Circulation & Service Areas (12%)	<u>336</u> SF	
	GROSS SF:	3,135 SF	
and the second second second			

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PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO. 5 OF 7



1. COMPONEN NAVY	FY 19 84 MILITARY CONSTRUCTION PROJECT	DATA	2. DATE
			1 AUG 1981
MARINE CO	DRPS BASE, CAMP LEJEUNE, NORTH CAROLINA 28542		
. PROJECT T		5. PROJ	ECT NUMBER
OF-35 MEC	CHANICS SCHOOL, MCSSS (INCREMENT 1)		P-808
d. Module.	Automotive Organizational Maintenance Course -	5/4 T I	High-Mo
	40 student stations		1.24
	(1) Category Code 171-10:		
	Classroom - $20 \times 40 = 800 \text{ SF}$ Support Space - $2.25 \times 800 = 1800 \text{ SF}$	·	
	NET SF: 2600 SF		
	. Circulation & Service Areas (12%)312 SF		
	GROSS SF: 2,912 SF		
	(2) Category Code 171-20:		
	8 Operational 5/4 T High Mobility Tactical	Vehicle	es ·
	(approx floor space required: 590 SF each))	
	aboratory - $590 \times 8 = 4720 \text{ SF}$ Support Space - $480 \times 1 = 480 \text{ SF}$		
	NET SF: 5200 SF		
	Circulation & Service Areas (12%)624 SF		
	GROSS SF: 5824 SF		en en la contra de
e.	SUMMARY:		
	TOTAL ACADEMIC: 65,591 SF TOTAL APPLIED: 33,488 SF		
	GRAND TOTAL: 99,079 SF		
14. <u>Main</u>	tenance Facilities: Not applicable.		
D FORM	PREVIOUS EDITIONS MAY BE USED INTERNALLY		PAGE NO. 6

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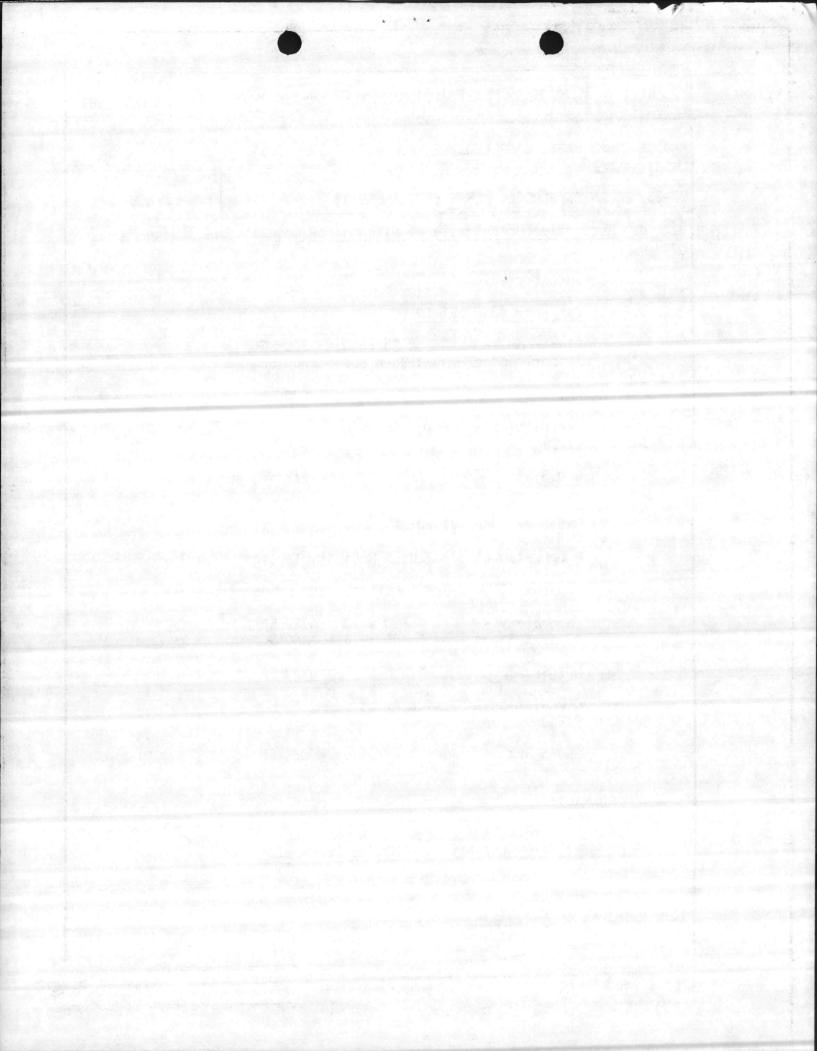
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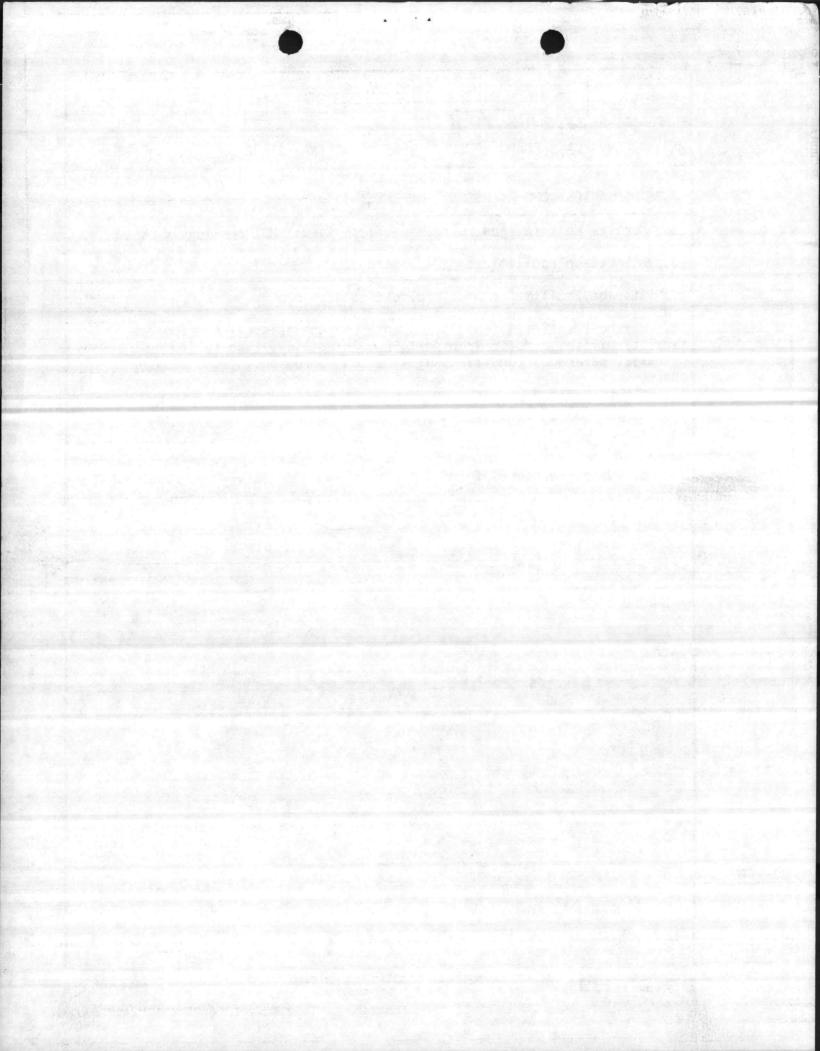


1. COMPONENT NAVY	FY 19 84 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 AUG 1981
	AND LOCATION S BASE, CAMP LEJEUNE, NORTH CAROLINA 28542	
4. PROJECT TITLE	5.7 103	ECT NUMBER
OF-35 MECHAI	NICS SCHOOL, MCSSS (INCREMENT 1)	P-808
	, Welfare, and Recreation Facilities: Not applicab	le.
16. <u>Reloca</u>	tion Facilities: Not applicable.	A CLOWN
17. Storage	e Facilities: Not applicable.	
facility wi	Identification, Assessment, and Analysis: The pro Il be a Motor Transport School facility. The follo azardous conditions will be considered during the d	wina
a. Ext	naust fumes.	

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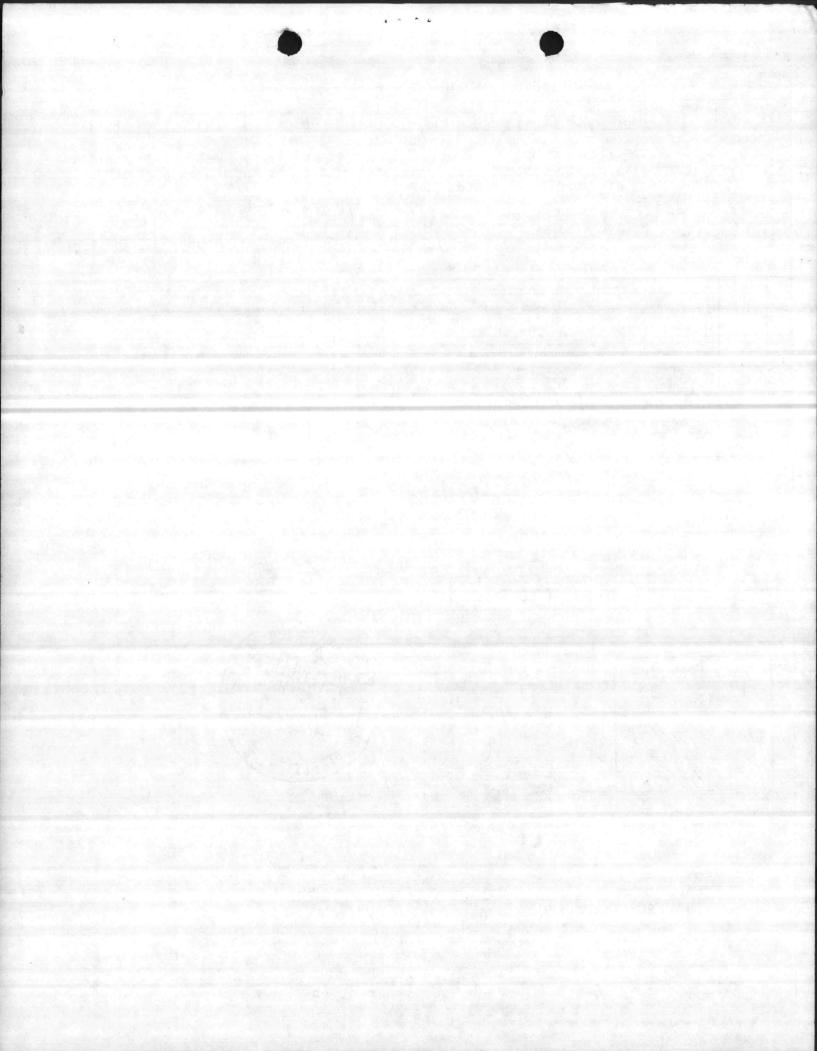
- b. Battery acid fumes.
- c. Gasoline/diesel fumes.



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ADUESTER	17	1-2	0,	OF-35 MECHANICS					TYPE OF	F FUNDING	COST (\$000 \$3,10		ogram year FY-84
SECTION A FOR USE BY REQUESTER	Con Tra sys	nst ans ste	ruc por m,	t school facili t with lifts, e classrooms, air systems.	ngine	exhaust	d T	acilit	ies fo	or the Mo	otor Tra	equate t nsport S	raining chool,
Ĕ	TYPE	OF	MAP			DATE		TOBESTED	By (Typed	name and signa	iture)	DATE	
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equires approval of a major change to the master plan prior to site approva



OTHER REQUIREMENTS FOR SUPPLIES AND EQUIPMENT

Drinking Water Coolers Venetian Blinds - All lecture type classroom and office spaces Draperies for lecture type classrooms Instructor platform for all lecture type classrooms & F&E Lab Air conditioning system for all lecture type classrooms & F&E Lab Heating for all enclosred spaces Exhaust gas removal system for the CUCV/Organizational Maintenance laboratory Telephone system for all office spaces Deep sinks/lavatories for all laboratory spaces External storage of, and central supply system for, fuel in CUCV laboratory Accommodations for storage of student handout material in the classrooms (twenty bins approximately 10" x 12" x 12") Vacuum Cleaners for Classrooms 1 and 2

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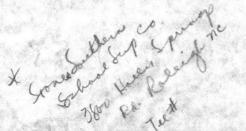
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STOCK NO.	ITEM/EQUIPMENT DESCRIPTION	QTY	UNIT PRICE	TOTAL COST
GSA Contract	Player, Videocassette	√ 5 [°]	2,337.00	11,685.00
GSA Contract	Monitor, ITV	J101	475.00	4,750.00
5180-00-606-3566	General Mech Tool Kit	62	331.00	20,522.00
* Stock No. 00500	Deluxe Lectern, w/wheels, Light & 3 Shelves	171	250.00	1,750.00
6625-00-764-6106	Multimeter, Simpson 260	20	160.01	3,200.20
6625-01-131-8586	Multimeter, Digital	42	278.49	11,696.58
4140-00-833-5068	Pedestal Fan 🧖	√ 4ª	130.00	520.00
4910-00-251-6981	Creeper, Mechanics	40	10.57	422.80
4910-00-262-0392	Jack Stands, 5 Ton	×80 ·	18.93	1,514.40
4910-00-289-7233	/ Jack, Floor, 10 Ton	141	584.00	2,336.00
No. T5-725-465 Carolina Office Supply	Magnetic Board	√ 51	376.00	1,880.00
3M Stock No. 78-6969-1889-1	Projector Stand 7 Trong Eget. ?	° √ 5'	115.00	575.00
7195-00-912-9445	Bulletin Board	√ 10°	10.60	106.00
6645-00-532-3342	/ Clock, Wall, Electric	√ 12 ¹	6.00	72.00
4210-00-252-5543	Fire Extinguisher	15 \	114.02	1,710.30
GSA Contract	Ceiling Mounts for ITV 7 Monitors	10	84.00	840.00
4940-00-449-6689 🗸	J Parts Cleaner	1 21	322.00	644.00
7125-01-000-3856	/ Parts Rota Bin 3' Diam	۰۱ ک	508.71	508.71
6130-00-106-6445	Battery Charger	2*	359.81	719.62
4930-00-357-6301	Lubricating Kit	10	97.63	976.30
7240-00-255-8113	Measure, Liquid, 2 Qt.	4	7.30	29.20
6230-00-239-3518	Light, Extension	20	4.97	99.40
7240-00-255-5996	Measure, Liquid, 8 Qt.	4	10.00	40.00
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STOCK NO.	ITEM/EQUIPMENT DESCRIPTION	QTY		TOTAL COST
₩ 7110-00-132-6650	🖌 Chalkboard, Portable 🥒	< 1 ¹	58.00	58.
v 7110-00-843-7917	Chalkboard, Hanging 🥓	√ 8 '	59.00	472.0
No. T5-2547 ∧ Carolina Office Supply	/Board, Dry Erace Magnetic, 4'x8'	√ 5 \	230.00	1,150.0
7110-00-286-3798	File Cabinet, 5 Dr.	`۱ [`]	218.00	218.
7125-00-000-0078	1 Storage Cabinet 🥟	√27°	260.00	7,020.0
7110-00-240-8931	JDesk, Single Pedestal	√ 4 ¹	191.00	764.0
7110-00-143-0082	Office Table 60"x34"	121	105.00	210.0
7110-00-177-4901	<pre>{ Office Table 36"x24"</pre>	/1211	75.00	9,075.0
7110-00-143-0821	Office Table 45"x34"	/ 7	101.00	707.0
7110-00-082-6226	Chair, Straight, w/o Arms	/ 207'	32.00	6,624.0
7110-00-089-6791	🗸 Chair, Rotary, w/Arms	ي 4 ^د	51.00	204.0
7110-00-281-4469	🖌 Chair, Drafting	v 60'	52.00	4,368.0
4910-00-756-0934	√ Work Bench	66'	106.56	7,032.9
7520-00-162-6178	A ^b Sharpener, Pencil	19	2.55	48.
7520-00-205-1857	J Basket, Wastepaper	1 22'	6.40	140.8
7240-00-160-0440	Can, Trash-Garbage	J 11'	17.90	196.9
7920-00-893-5903	MM Wringer and Bucket, Mop	8	38.00	304.0
GSA Contract	Projection Screen	J5'	65.00	325.0
GSA Contract	Projector, 35mm Slide	¥ 8'	185.00	1,480.0
GSA Contract	Projector, Overhead	181	366.00	2,928.0
GSA Contract	Projector, 16mm Motion Pict	ure	396.00	396.0
GSA Contract	Public Address System (Wireless Microphone)		760.00	760.0
GSA Contract 11	Intercom w/8 Student Stations Plus Master	41	?	?

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STOCK NO.	ITEM/EQUIPMENT DESCRIPTION	QTY	UNIT PRICE	TOTAL COST
7125-00-330-0130	Cabinet, Storage	11	132.78	322.35
5120-00-293-1439	Vice, Machinist's	20	59.00	1,180.00
6330-00-105-1418	Duo-Check Tester	20	27.05	540.20
5120-00-640-6364	Wrench, Torque ½"	20	32.00	640.00
5120-00-203-9573	Wrench Set, Socket $\frac{1}{4}$ " Dr	20	9.30	186.00
5120-00-449-8200	Wrench Set, Socket 3/8" Dr	20	210.00	4,200.00
4910-00-273-3658	Bleeder Ball	20	81.20	1,624.00
4910-00-124-2554	Simplified Test Equipment for Internal Combustion Engines	20'	3,695.00	73,900.00



DISS YTS LEINTEDER DASKETTE CTO DOTES 7123-00-390-0430 Vice, Madritic States, 1997 00.021.1 5120-00-293-1134 OS. CEE So. 12 Martine 20, 03 ST#1-Set-00-07-0797 20 32:00 rener, Corquerte no una. 5120-0.0-0.0-0517 .Traio: set, Socket an are 20 20 9:00 120-205-00-05T 135,90 lasion Set, Booket 2/1" Da 200 210.00 0.051-0.00-0512 4,210,00 1201-00-0104 1,524.00 1910-00-134-2551 61400 - 0.0 (Green)

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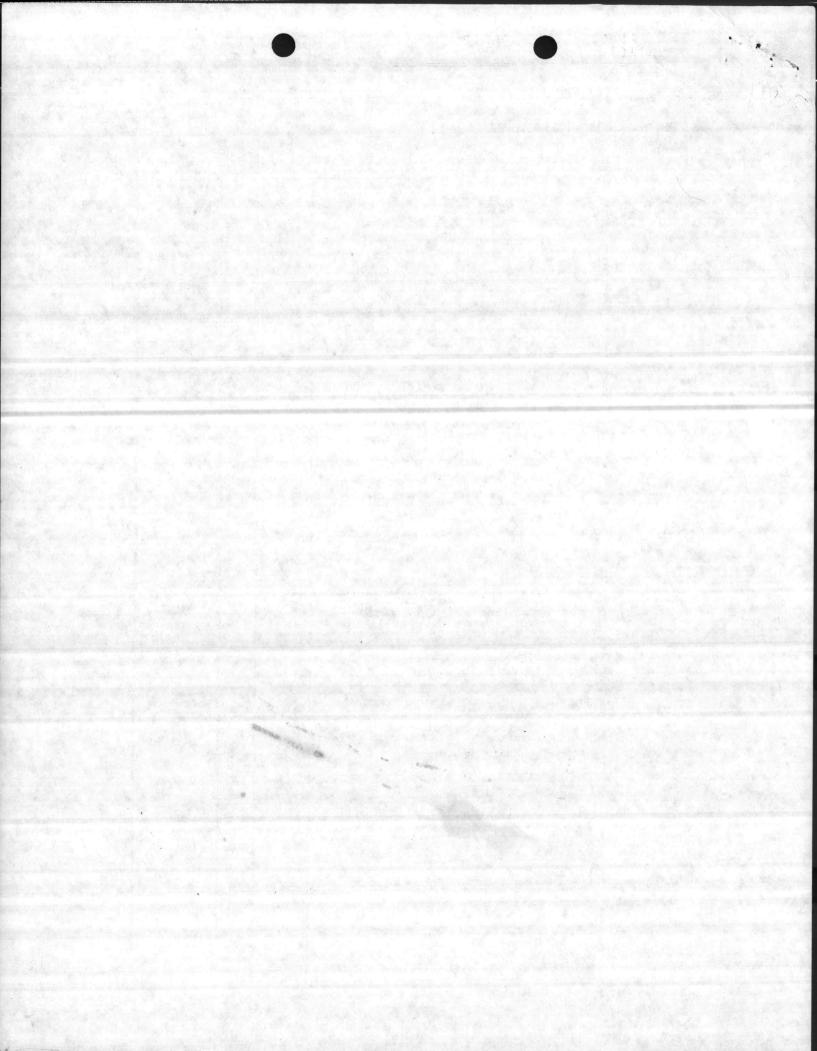


P. NO.

MARINE CORPS BASE, CAMP LEJEUNE, NC 28542

2. PFOJECT TITLE

MECHANICS TRAINING BUILD	DING (INCREMENT 1)		19 (j. 19) 19 (j. 19)		P-808
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN. TITY	UNIT OF ISSUE	UNIT PRICE	TOTAL COST
1. BUILT-IN EQUIPMENT TO BE MCON FUNDED:	*Venetian blinds and window screens		4	•	
v	*Interior steam system		100 CT		A Calendaria
	*Plumbing system				. Productor
\checkmark	*Sprinkler System		1.1.1		
Ŷ	<pre>*Telephone, fire alarm, and inter- com systems HVAC</pre>				
L	*Air conditioning system for all lecture type classrooms, Labore				
V	*Instructor platform for all lecture type classrooms				
	✓*Exhaust gas removal system for the CUCV/Organizational Maint. laboratory				
· · · · · · · · · · · · · · · · · · ·	*Deep sinks/lavatories for all laboratory spaces		·		
	*External storage of, and central supply system for fuel in CUCV laboratory				
	*Provide for tier arrangement of seating in classrooms 1,2, & 3			XXX	
	*Drinking Water coolers	34.87	Per la		
V	*Public Address System Intercom Wireless microphones W/8 Student Stations Plus Master				
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COLLAT CAL FOURMENT REG	QUIREMENTS (Initial Outfitting) 0/6 (Or.11/81)		•			0 + 84
MARINE CORPS BASE, CAMP L				77.07	23	Oct 84
2 PROJECT TITLE MECHANICS TRAINING BUILD			<u> (78.)</u>	1011		P. NO. . P-808
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION		QUAN- TITY	UNIT OF ISSUE	UNIT' PRICE	TOTAL
2. EXPENSE ITEMS:			3001		95.00	95
7110-00-132-6650	Chalkboard, Portable · ·	√.	/ / 1	EA	58.00 89.00	· (58
7110-00-843-7917	Chalkboard, hanging	1	183	EA	59.00	712 222
7110-00-286-3798	File Cabinet, 5 drawer	1	1	EA	139.9/ 218:00	140 2000
7125-00-269-8345	Storage Cabinet	V	27	EA	153.00 X60.00	4,131 7,0 20
Brodhead-Garrett					160.00	1,010
2448 Industrial Pk Dr. Macon, GA 31208 (912)781-8952	Apron and Book Rack Model 120 pg 84	\supset	28	EA	82.50	2,310
Carolina Office Supply No. T5-725-465	Magnetic Board	V	1 5	EA	376.00	1,880
3MStock No. 78-6969-1889-1	Projector Stand		153	EA	115.00	345
Carolina Office Supply No. MF-924002	Deluxe Lectern, W/wheels, Leg Lecternette, W/AC adapter 3phil	hr	173	EA	250.00 97.50	1, 7, 50 -293
3M Stock No. 78-6969-1891-7	Podium and side table	K	T	EA	899.00	6,293
Carolina Office Supply No. T5-2547	Board, Dry erase magnetic, 4'x8	• 1	5.6	EA	230.00	1,50
149-1627 7110-00-740-8931	Desk, Single pedestal	×	4.2	EA	245.74	104 191
7110-00-758-6146	Desk, double pedestal		4	EA	302.00	1,208
113-0816 7110-00-143-0082	Office table 60" x 34"	~	277	EA	168.45	8,085
113-0633 7110-00-143-0821	Office table 450 349 36 "x24"	V	126.6	EA	84.27	10, 780
7110-00-082-6226	Chair, straight, w/o arms	V	234	EA	38.3.7 ^{32.00}	7,488-6,624
7110-00-089-6791	Chair, rotary, w/arms	1	45		66.31	255 265
7110-00-281-4469	Chair, drafting	1	60 54	EA	49.03	2.8082.882
4910-00-756-0934	Work bench	V	66.52	EA	106.56	5,5417,033
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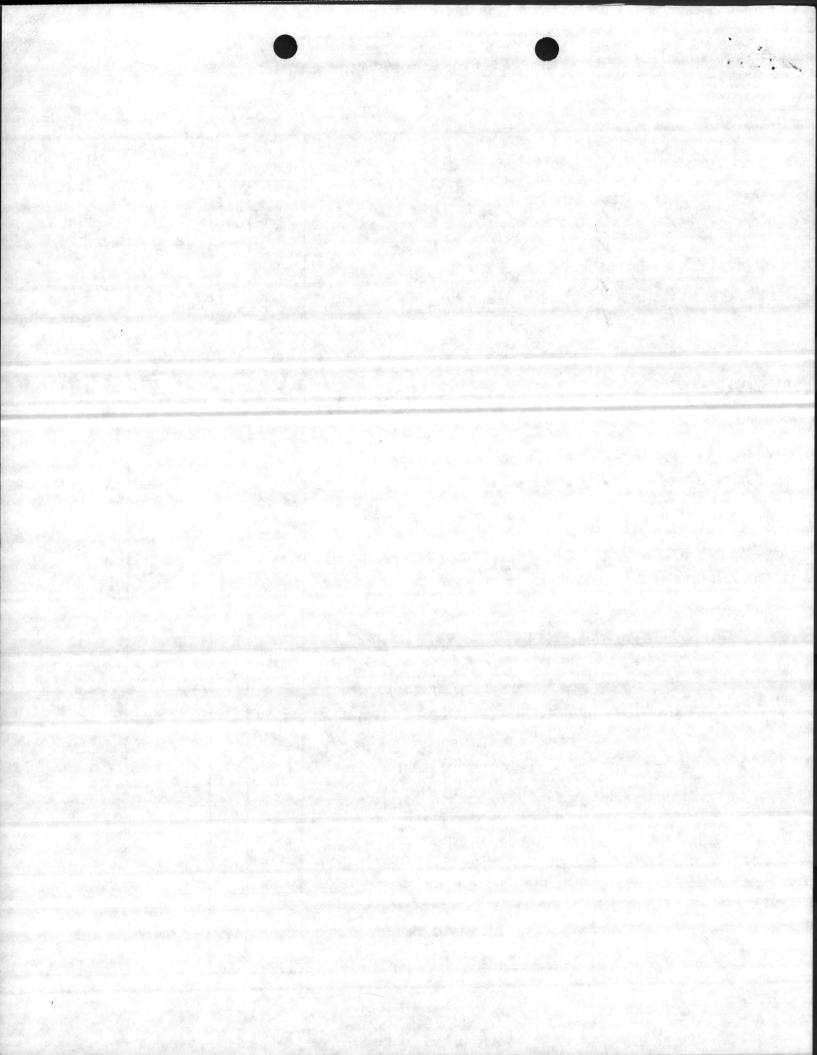
COLLATERAL EQUI	PMENT REQUIRE	TS (Initial Outfitting)	l
LANTDIV NORVA	4-11010/6	(Rev.11/81)	

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

MECHANICS TRAINING BUILD	ING (INCREMENT 1)			the states	P. NO. P-808
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE	ITEM/EQUIPMENT DESCRIPTION	QUAN- TITY	UNIT OF ISSUE	UNIT	TOTAL
2. EXPENSE ITEMS (cont'd	1)			7.40	163
7520-00-205-1857	Basket, wastepaper	22	EA	6.40	• 141
7240-00-160-0440	Can, trash-garbage	11 14	EA	16.80	185 251
7195-00-912-9445 check th	Bulletin board	107	EA	10.60	106 74
6645-00-530-3342	Clock, wall, electric	11/8	EA	8.20 6.00	72 48
4140-00-833-5068	Pedestal fah	4	EA	128.00	520
4910-00-262-0392 check1	Jack stands, 5 ton	80	EA	18.93	1,514
4910-00-289-7233 "	Jack, floor, 10 ton	4	EA	584.00	2,336
4210-00-252-5343 «	Fire extinguisher (file in)	15 2	EA	114.02	17/0
4940-00-449-6689 ar	Parts cleaner	1 2	EA	322.00	644
7125-01-C00-3856 <i>u</i>	Parts Rota bin 3' diameter 🗸	1	EA	508.71	509
6130-00-106-6445 "	Battery charger	1.24	ĔA	359.81	720
7125-00-330-0130	Cabinet, storage	1	EA	322.35	322
ÓP	Draperies (office)	10	PR	90.00	900
the states	Black out draperies for Lab and classrooms & Classroom /Lab	10	PR	90.00	900
	TOTAL EXPENSE ITEMS:	13 11	N.		53,288
3. INVESTMENT ITEMS:	Simplified test eqpt for internal				
	combustion engines	V 20	EA	3,695.00	73,900
	TOTAL INVESTMENT ITEMS:	ang manang Pang manang		a starting	73,900
4. APA EQUIPMENT:	None	ALC: NO		Sec. Maria	and an age in the second
5. TRAINING EQUIPMENT:	(To be locally funded)	-	12.23	a de la	
	Projection screen	5	EA	65.00	325
	Projector, 35mm slide	8	EA	185.00	1,480
	Projector, overhead	1 8	EA	366.00	
	Projector, 16mm motion picture	113	EA	396.00	396 1,188
and the second	Player, videocassette 🗸 🗸	58	EA	2,337.00	7,011



ATTIN (Ness and Location)	1	DATE 23				
MARINE CORPS BASE, CAMP PROJECT TITLE MECHANICS TRAINING BUILD	and the second second second second second		and the second			P. NO. P808
COG. SYMBOL AND FED. STOCK NO. OR OTHER SOURCE			QUAN-	UNIT	UNIT'' PRICE	TOTAL
OTHER SOURCE 5. TRAINING EQPT. (cont	'd)		Saladi	ISSUE		
and the second	Monitor, ITV	1	10.5		475.00	4750
	TOTAL TRAINING EQPT.			1		15, 782
SUMMARY:						
	TOTAL EXPENSE ITEMS: TOTAL INVESTMENT ITEMS:					53,288 73,900 127,188
	Accelerated to FY-87					146,768
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