

18 SEP 1985

11019
MAIN

Base Maintenance Officer

Assistant Chief of Staff, Facilities

FY-87 MINOR CONSTRUCTION, R-2 PROJECTS

Ref: (a) Your memo 11013 FAC of 6 Sep 85

- Encl:
- (1) R-2 Project - Insulation of Various Buildings
 - (2) R-2 Project - Pipe Insulation of Various Buildings
 - (3) R-2 Project - Blown-In Insulation of Various Buildings ✓
 - (4) R-2 Project - Foam Insulation of Various Buildings ✓
 - (5) R-2 Project - Batt Insulation of Various Buildings ✓
 - (6) R-2 Project - Correct Various Wastewater Treatment Facility Discrepancies
 - (7) R-2 Project - Office Addition for Base Maintenance Operations Office
 - (8) R-2 Project - Water Distribution to Ammunition Area
 - (9) R-2 Project - Improvements of Waste Oil Storage Facilities

1. The Base Maintenance is submitting the enclosed R-2 projects for the subject program. A scope of work and cost estimate is attached to the project list.

W. M. RICE

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Project: Insulation

Provide 2" x 2" furred walls insulated with 1½" polystyrene and covered with gypsum board in 23 buildings: BA-101, BA-102, BA-104, BA-105, A-1, BB-8, BB-16, BB-48, BB-49, BB-50, BB-51, BB-250, BB-255, RR-8, TC-307, TC-1064, TC-1065, TC-1067, TC-1068, TC-1069, TC-1160, 907, 1011.

Cost: \$198,000

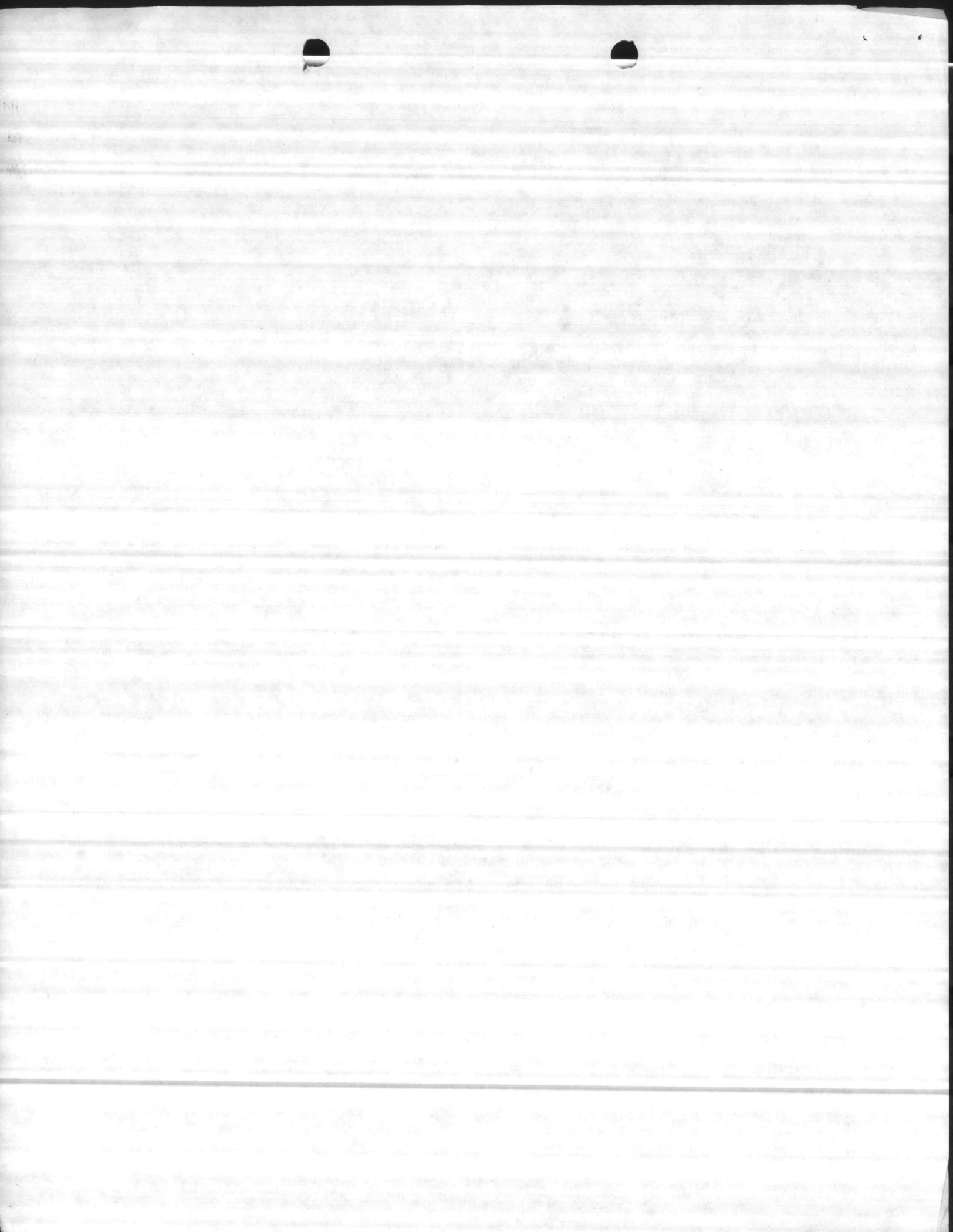
Site: Various Buildings

JUSTIFICATION:

Project will save 3,402 MBTU's of energy per year.

E/C = 18

SIR = 1.68



Project: Pipe Insulation

Replace existing deteriorated pipe insulation on steam, condensate and hot water pipes in 33 buildings: RR-1, RR-2, RR-4, RR-5, M-100, M-101, M-102, M-104, M-105, M-116, M-123, M-124, M-125, M-126, M-128, M-129, M-130, M-131, M-132, M-134, M-139, M-202, M-215, M-216, M-217, M-326, M-405, M-406, M-409, M-411, M-412, M-422, M-620.

Cost: \$101,000

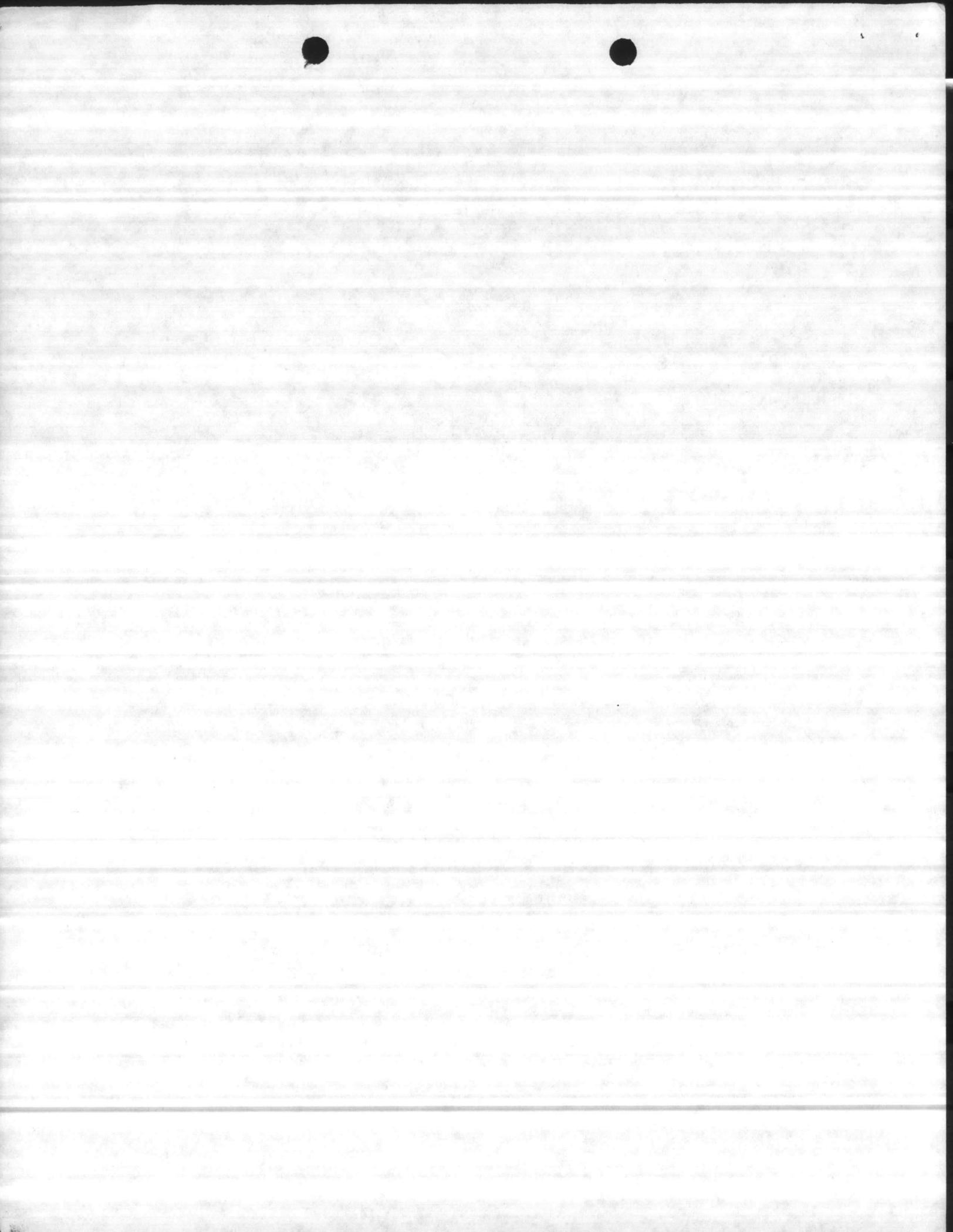
Site: Various Buildings

JUSTIFICATION:

Project will save 13,836 MBTU's of energy per year.

E/C = 164

Slr = 16.61



Project: Blown-In Insulation

Provide blown-in insulation in exterior and interior walls in 41 buildings:
BA-119, BA-120, BA-146, BB-2, BB-7, BB-10, BB-28, BB-45, RR-1, RR-2, RR-4,
RR-5, RR-6, RR-9, RR-10, RR-11, RR-12, RR-49, TC-601, TC-614, TC-710, TC-740,
TC-910, 902, 905, 906, 907, 914, 915, 1012, 1103, 1201, 1202, 1211, 1301, 1304,
1400, 1401, 1402, 1403, 1501.

Cost: \$181,000

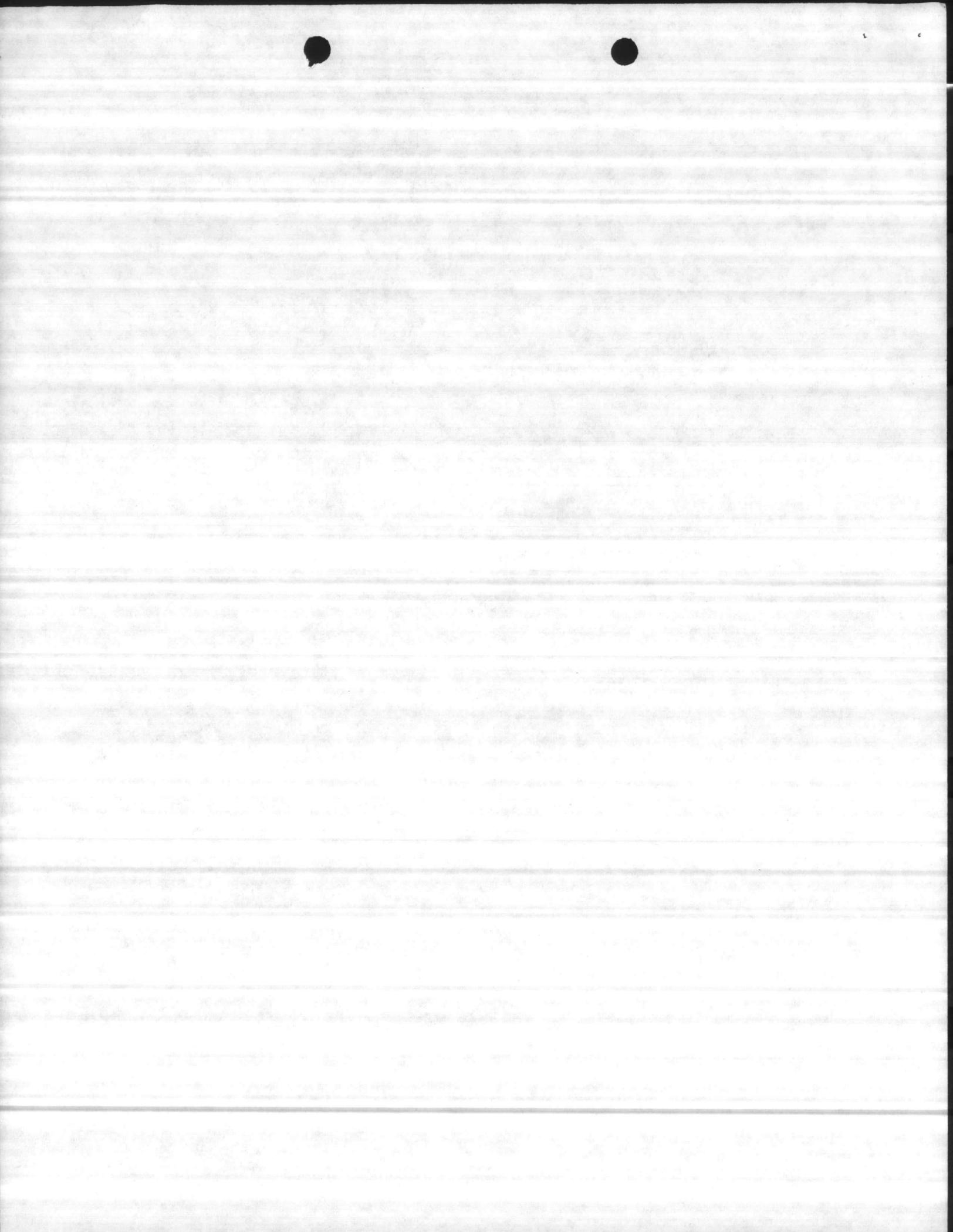
Site: Various Buildings

JUSTIFICATION:

Project will save 5,377 MBTU's/yr.

E/C = 33

SIR = 1.11



Project: Foam Insulation

Provide zonolite or styrene foam beads to fill exterior wall cavaties in 32 buildings: TC-307, TC-1064, TC-1065, TC-1067, TC-1068, TC-1069, TC-1160, BB-48, BB-49, BB-50, 903, 904, 906, 915, 916, 1012, 1015, 1041, 1104, 1105, 1108, 1117, 1118, 1202, 1212, 1403, 1404, 1407, 1410, 1500.

Cost: \$122,000

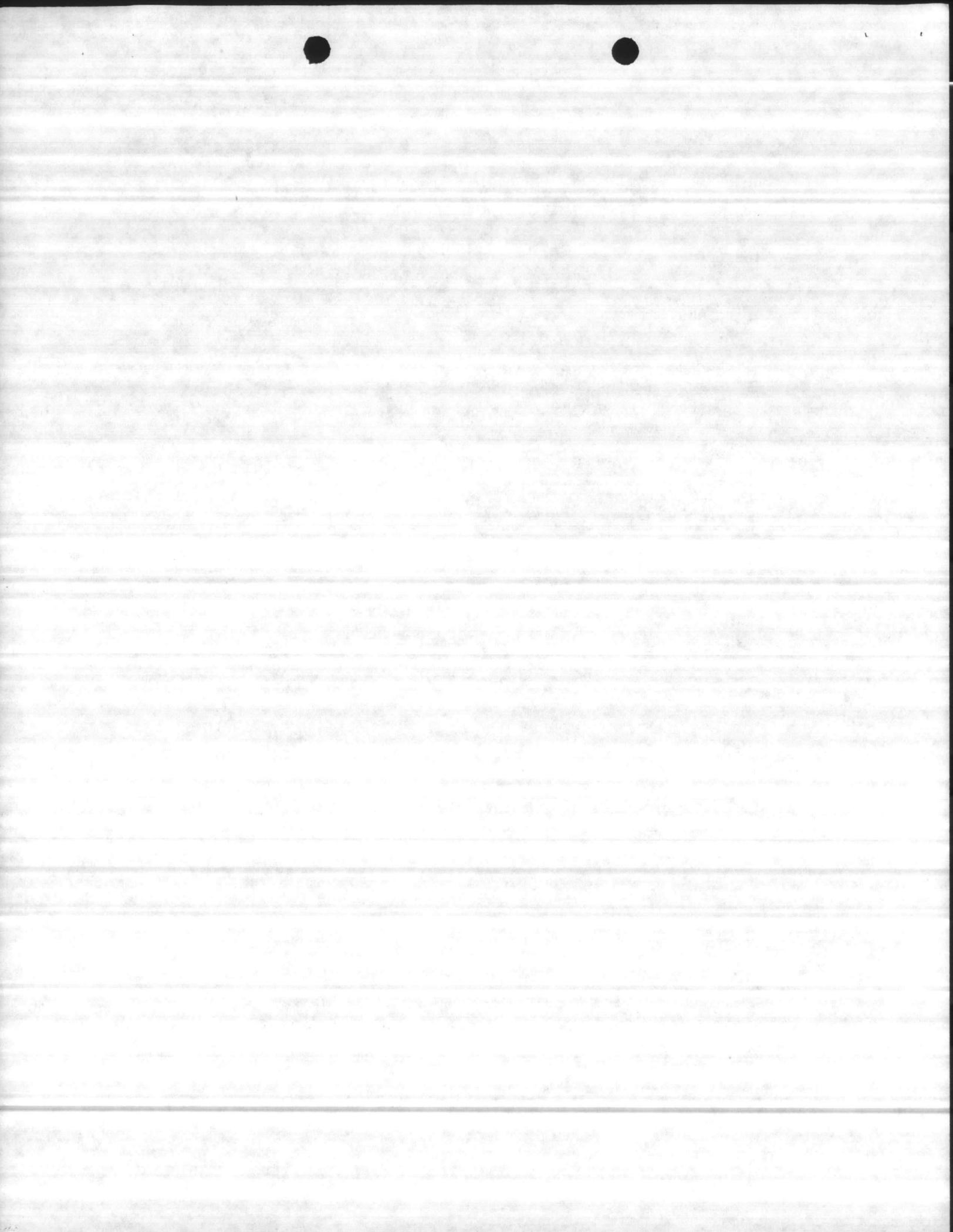
Site: Various Buildings

JUSTIFICATION:

Project will save 4,627 MBTU's of energy per year.

E/C - 42

SIR = 2.63



R-1 Project: Batt Insulation

Provide 6" fiberglass batt insulation with vapor barrier beneath the flooring in 15 buildings: TC-601, BB-10, BB-27, BB-28, RR-1, RR-2, RR-4, RR-5, RR-9, RR-11, RR-12, BA-119, BA-120, BA-143, BA-144, BA-146.

Cost: \$94,000

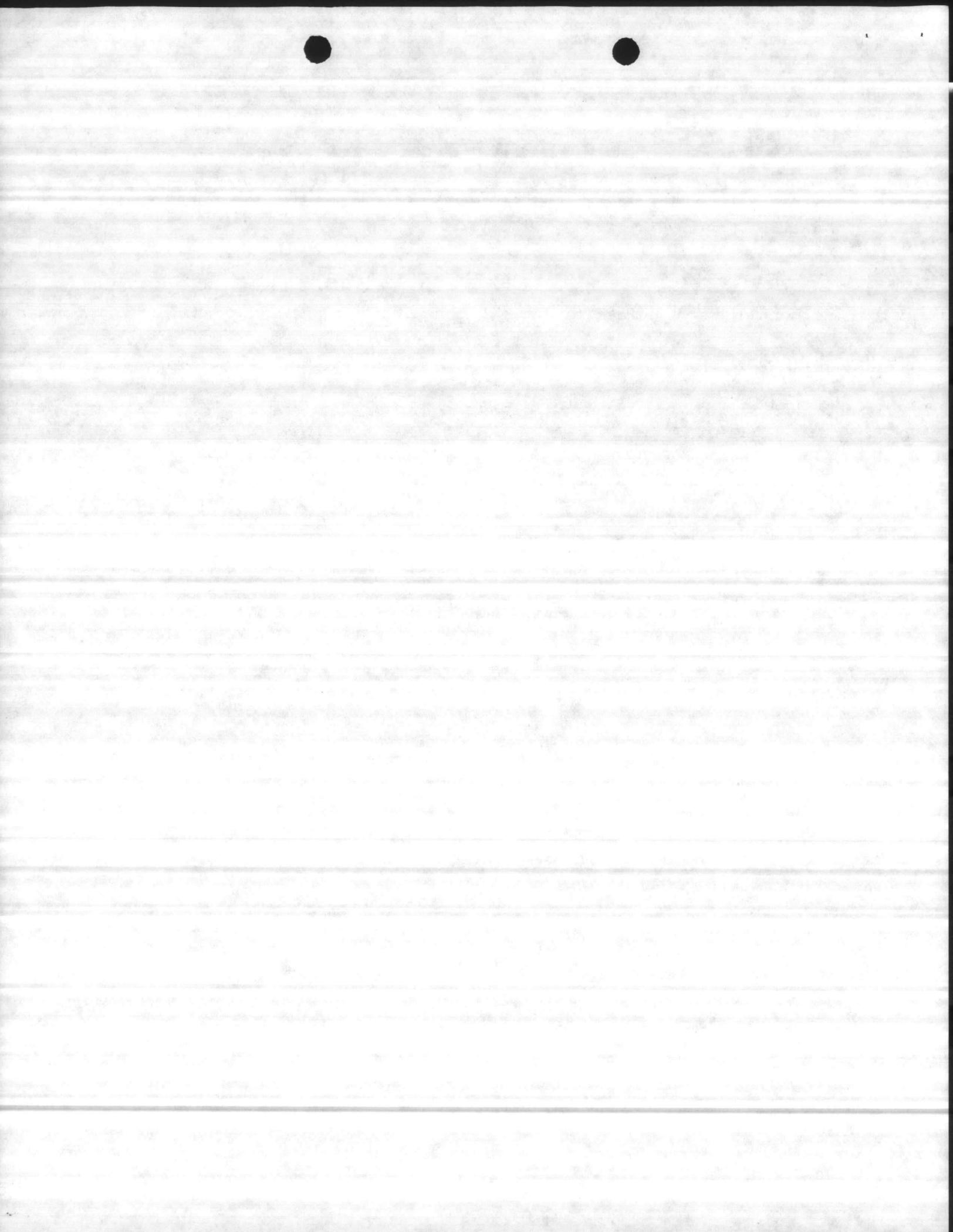
Site: Various Buildings

JUSTIFICATION:

Project will save 1,275 MBTU's of energy per year.

E/C = 15.02

SIR = 1.45



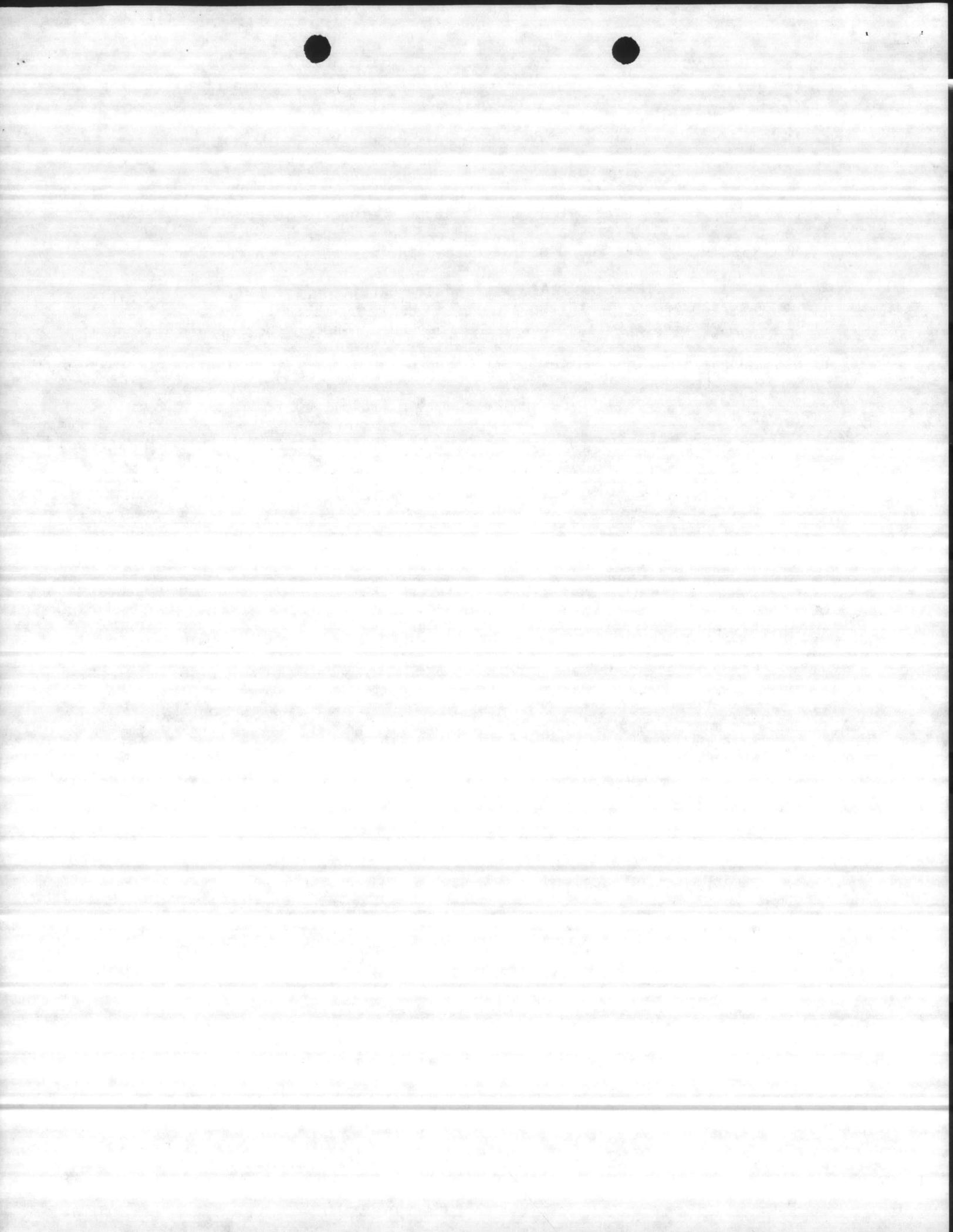
Project: Correct Various Wastewater Treatment Facility Discrepancies.

1. Onslow Beach Wastewater Treatment Plant: Construct a 10' x 14' addition to Building SBA-160. Install a shower and head facilities partitioned from office/clean room area. Place guard rail around inhoff tanks (+ 232').
2. Rifle Range Wastewater Treatment Plant: Construct a 10' x 17' addition to Building RR-92. Install a shower and change room partitioned from office/clean room area. Place guard rail around chlorine contact chamber (+ 80').
3. Camp Geiger Wastewater Treatment Plants: Partition off a 17' x 9' change room/shower area with two showers in Building TC-645. Install +97' of guard rail for tertiary tank and +125' around chlorine contact chamber.
4. Camp Johnson Wastewater Treatment Plant: Construct a 10' x 20' extension for a clean room on Building M-136. Install guard rail around grit channel, primary clarifier and chlorine contact chamber (+340).
5. Tarawa Terrace Wastewater Treatment Plant: Construct a 10' x 9' change room addition to Building TT-56.
6. Hadnot Point Wastewater Treatment Plant: Construct a 12' x 17' change room/shower room to Building 22. Install four showers and built in lockers.

Cost Estimate: \$135,000

JUSTIFICATION:

These discrepancies were identified on environmental health inspections performed by the Occupational and Preventive Medicine Department of the Naval Hospital. This project will allow an area to be set aside as uncontaminated and prevent contaminated clothing from being worn off premises.



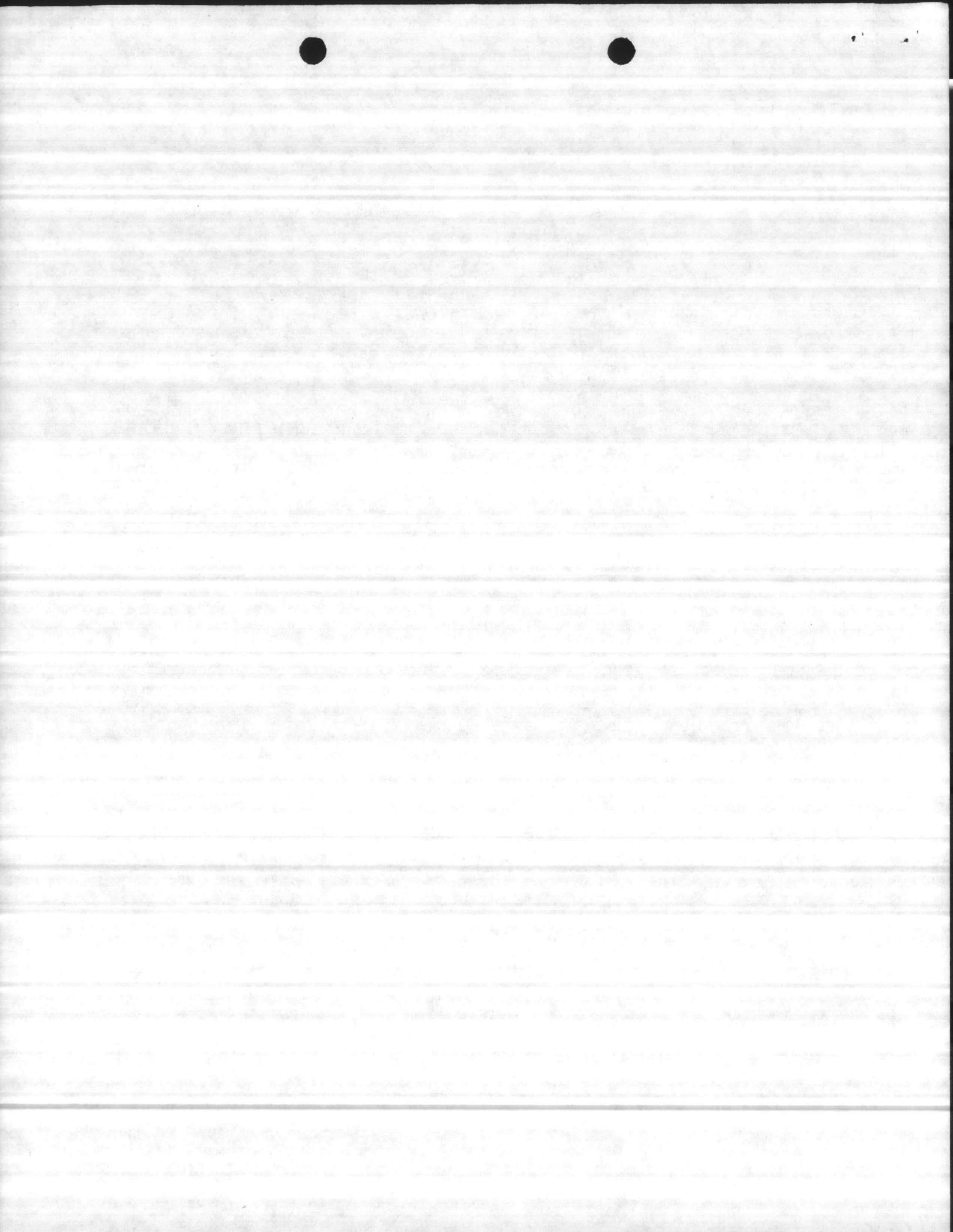
PROJECT - OFFICE ADDITION FOR BASE MAINTENANCE

COST: \$137,400

SITE: BLDG. 1202

DESCRIPTION: The Operations Branch needs approximately 4256SF of additional office. Presently, the office space is an average of 42SF per person. With increasing needs for file space, terminal locations and additional personnel, it is critical to increase the average personal office space in order to facilitate an effective organization.

JUSTIFICATION: The addition would provide the necessary office space for each person to work efficiently. The space will allow at least 200SF for the planned mini-computer by HQMC. The space will allow for a more effective work flow and organization. Presently, there is not enough space for personnel so it is very difficult to maintain files, and utilize the contract/design drawings, specifications and the necessary reference materials for the P&E Section. Work Reception Section personnel consist of seven and occupies 280SF for personnel, files and computer terminals.



62991

(R1)

NAVFAC 11013/7 (1-78)
Supersedes NAVDOCKS 2417 and 2417A

COST ESTIMATE

DATE PREPARED
8-28-85

SHEET 1 OF 3

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MLM ELDE 1202

ESTIMATED BY

CATEGORY CODE NUMBER

PROJECT TITLE

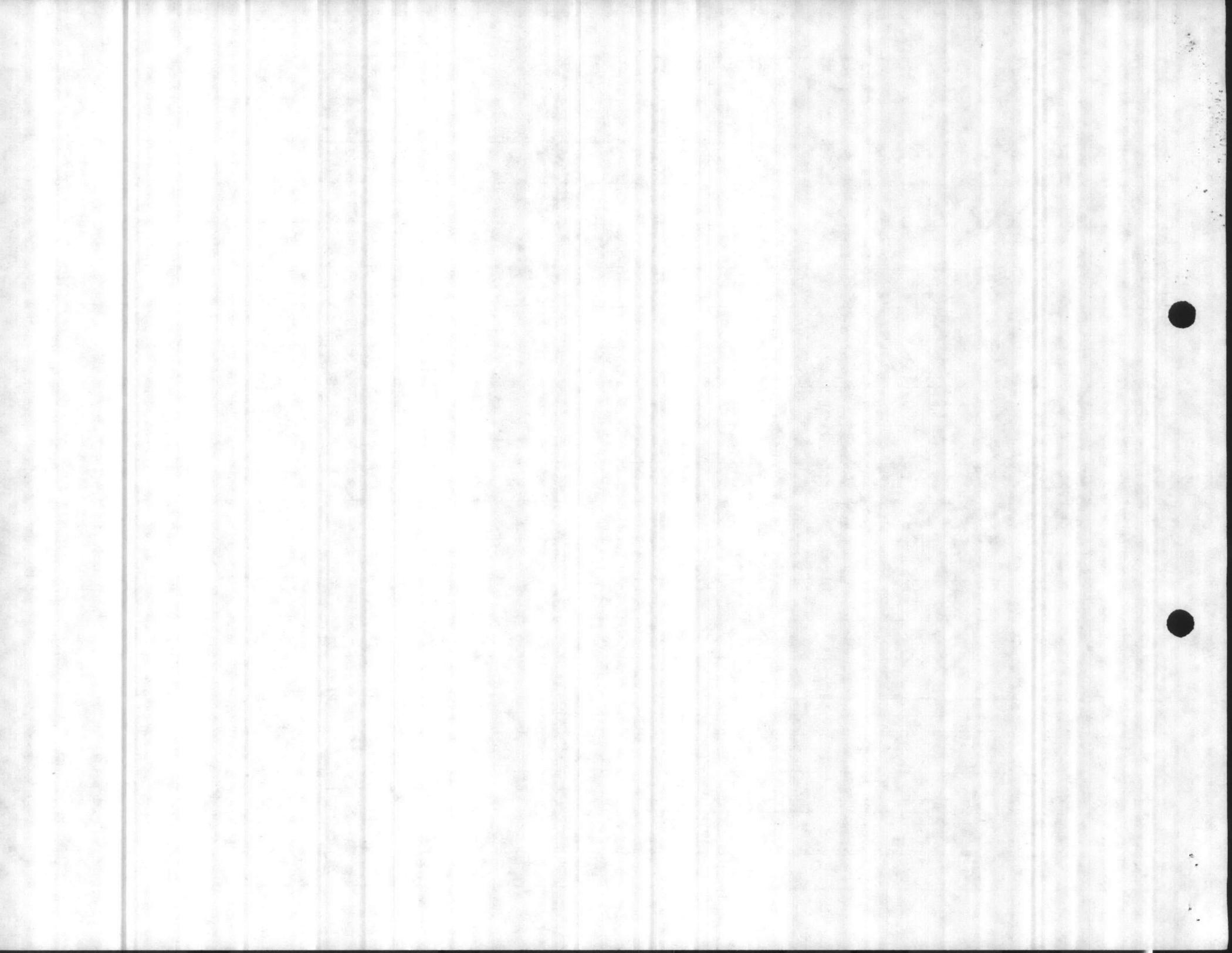
OFFICE ADDITION BASE MAINTENANCE OPERATIONS

STATUS OF DESIGN

 PED 30% 100% FINAL Other (Specify) _____

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
CONSTRUCT 56' X 76' OFFICE ADDITION EXTENDING BEHIND EXISTING SECOND FLOOR OFFICES USING EXISTING ROOF DECK FOR FLOOR. CONSTRUCT WITH FULL PLAN AS PER ATTACHED SKETCH.								
RELOCATE A/C CONDENSING UNITS (2)						1,000		
REMOVE P.U. ROOF (4,256 SF)	43	SQ			71.00	3,053		
REMOVE 3" THICK CONCRETE (4256 SF)	4256	SF	.61	2,596	.19	809		
REMOVE BLOCK WALLS 10' HIGH	1885	SF	1.27	2,388	1.85	3,478		
INSTALL STUCCO 3/4" THICK	209	SF	1.19	228	13.03	2,724		
INSTALL THERMOPLANE WINDOWS	17	EA	275.00	4,675	38.00	646		
INSTALL FLOOR JOISTS, METAL	4	TN	1050.00	4,200	235.00	940		
INSTALL METAL DECKING (4256 SF)	4256	SF	.80	3,405	.21	895		
INSTALL ROOF INSULATION 2"	4256	SF	.50	2,128	.18	766		



COST ESTIMATE

DATE PREPARED

SHEET 2 OF 3

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MCRB, BLD 1202

ESTIMATED BY

LESLIE LANIER

CATEGORY CODE NUMBER

PROJECT TITLE

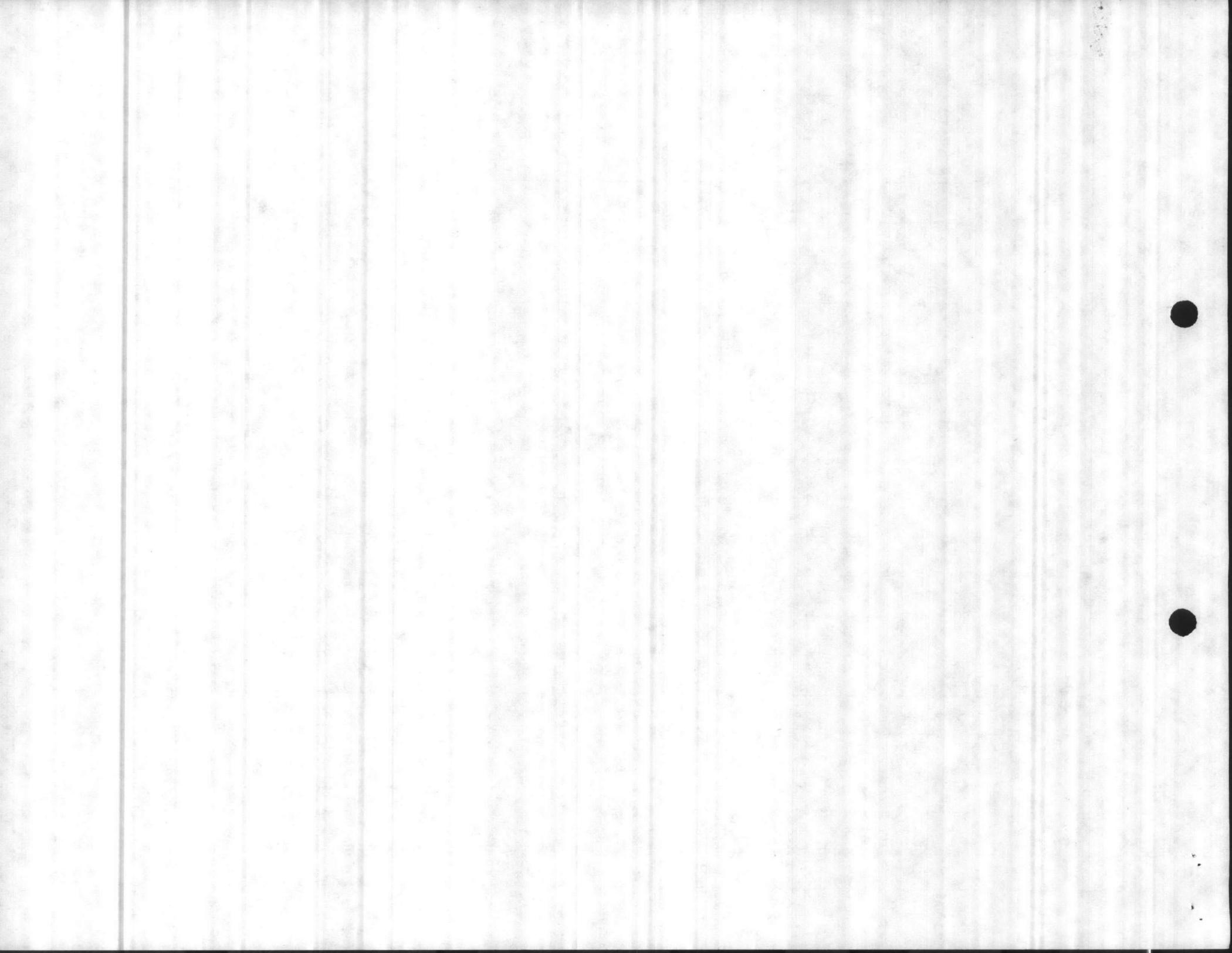
OFFICE ADDITION BASE MAINT OPERATIONS

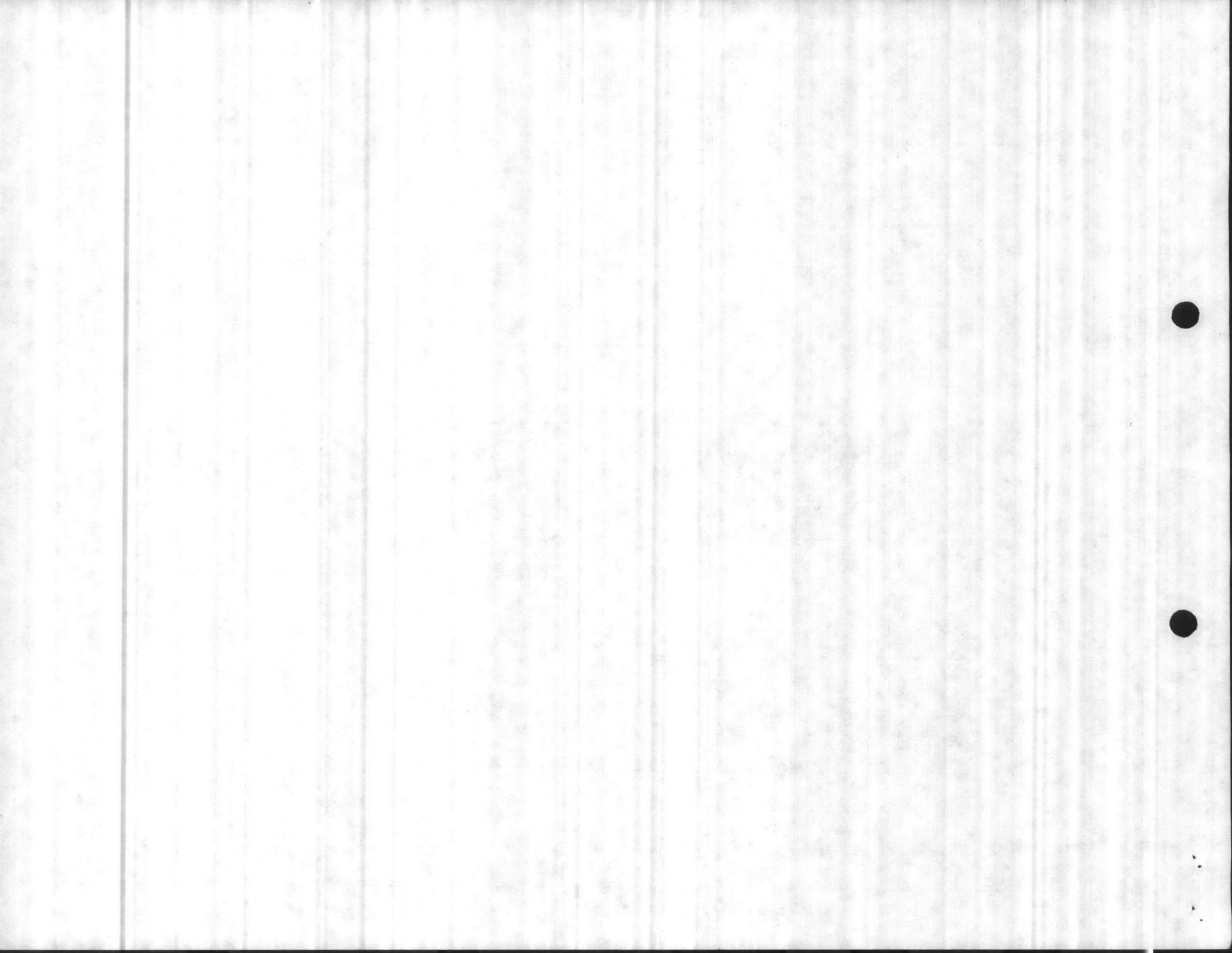
STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify) _____

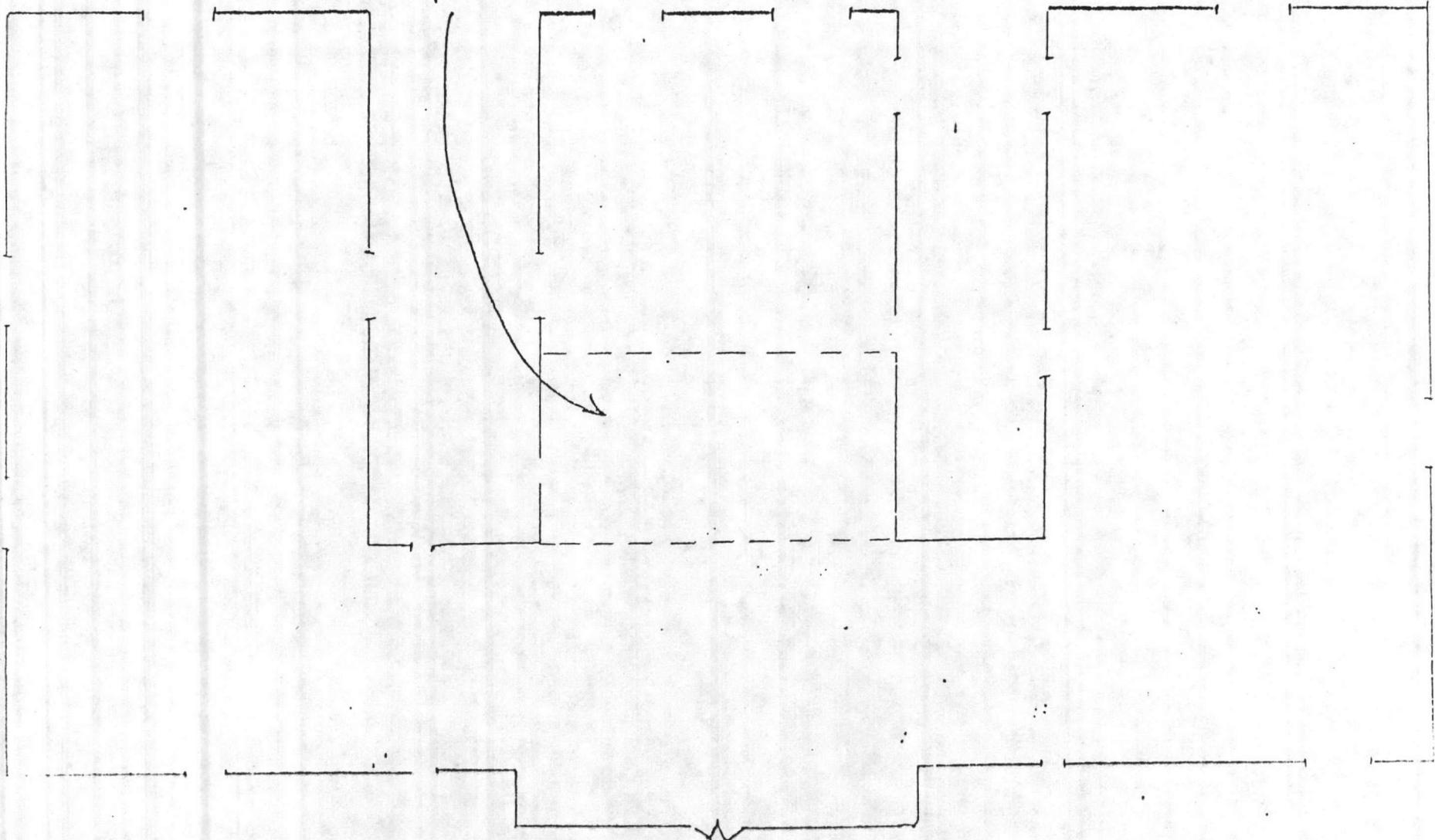
JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
P.V. FLOOR 4-PLY W/GRAVEL (4256 SF)	43	SQ	47.00	2,021	53.00	2,279		
INSTALL HVAC SYSTEM				12,000		2,000		
FRAME-UP PARTITIONS 8'HIG (465 LF)	465	LF	2.32	1,080	3.28	1,525		
INSTALL PANELING (7500 SF)	7500	SF	.32	2,400	.66	4,950		
INSTALL PREHUNG DOORS	18	EA	50.00	900	17.25	310		
INSTALL WIRING				2,500		1,500		
INSTALL LIGHTS (100) 2'x4'	100	EA	46.00	4,600	38.00	3,800		
INSTALL GYPSED CEILING	4200	SF	.68	3,060	.41	1,725		
INSTALL FLOOR TILE	4200	SF	.60	2,520	.29	1,218		
INSTALL 6" CEILING INSULATION	4200	SF	.30	1,260	.10	420		
				51,961		34,038		
INSTALL LINCOLN MATERIALS						85,999		
1 1/2" D.H.						12,900		
1 1/2" D.H.						5,106		
MATERIALS						2,078		
INSTALL						106,083		
10% PROFIT						10,608		

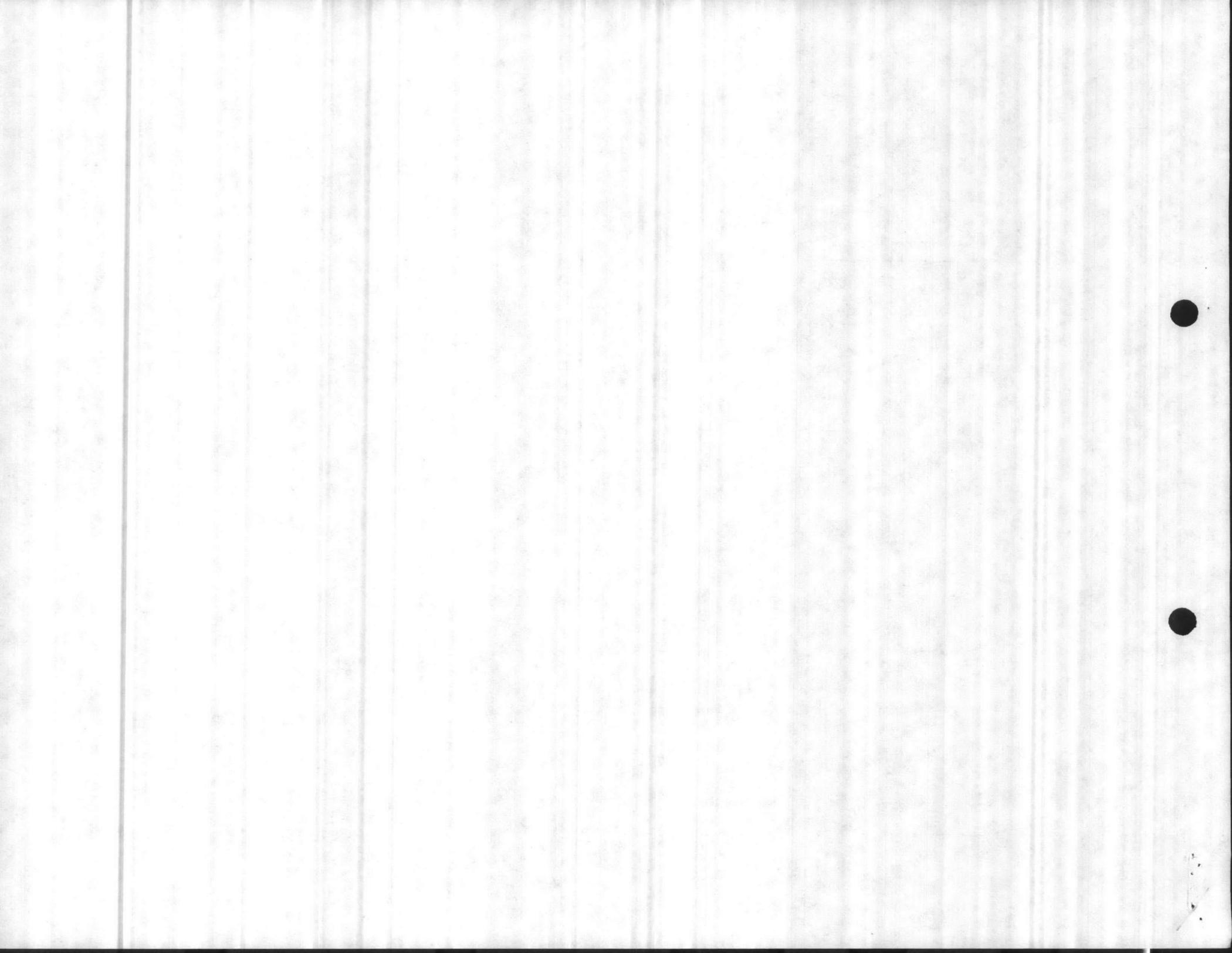




AREA OF NEW ADDITION ON SECOND FLOOR



BLDG 1202
BASE MAINTENANCE



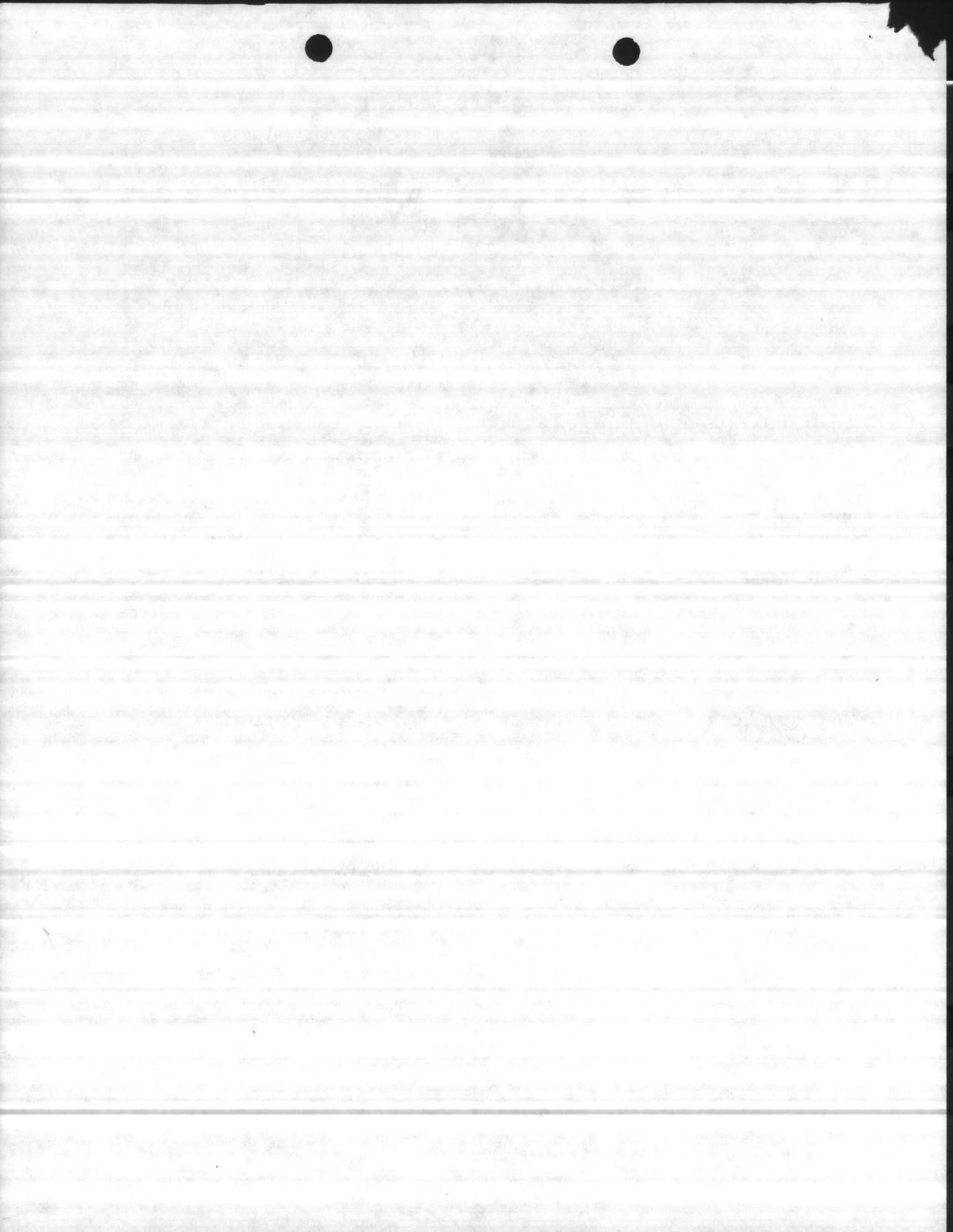
PROJECT - WATER DISTRIBUTION TO AMMUNITION AREA

COST: \$105,000

SITE: AMMUNITION AREA

DESCRIPTION: The water distribution will be extended to the Ammunition Area. The water distribution to the Ammunition Area would consist of feeding a 6" water line with fire hydrants for approximately one mile. This would assist in any fire extinguishing within the Ammunition Bunkers or related areas.

JUSTIFICATION: The extension of potable water will supply a water source for fire extinguishing in the Ammunition Area and a source of drinking water for the facilities in the area. The extension of the water line would eliminate the continuous need for wells in the same area.



COST ESTIMATE

DATE PREPARED
9-17-85

SHEET 1 OF 2

ACTIVITY AND LOCATION

FROM MAIN SERVICE ROAD TO SH-7

PROJECT TITLE

INSTALL POTABLE WATER LINES & FIRE HYDR.

CONSTRUCTION CONTRACT NO

ESTIMATED BY

Huffman

IDENTIFICATION NUMBER

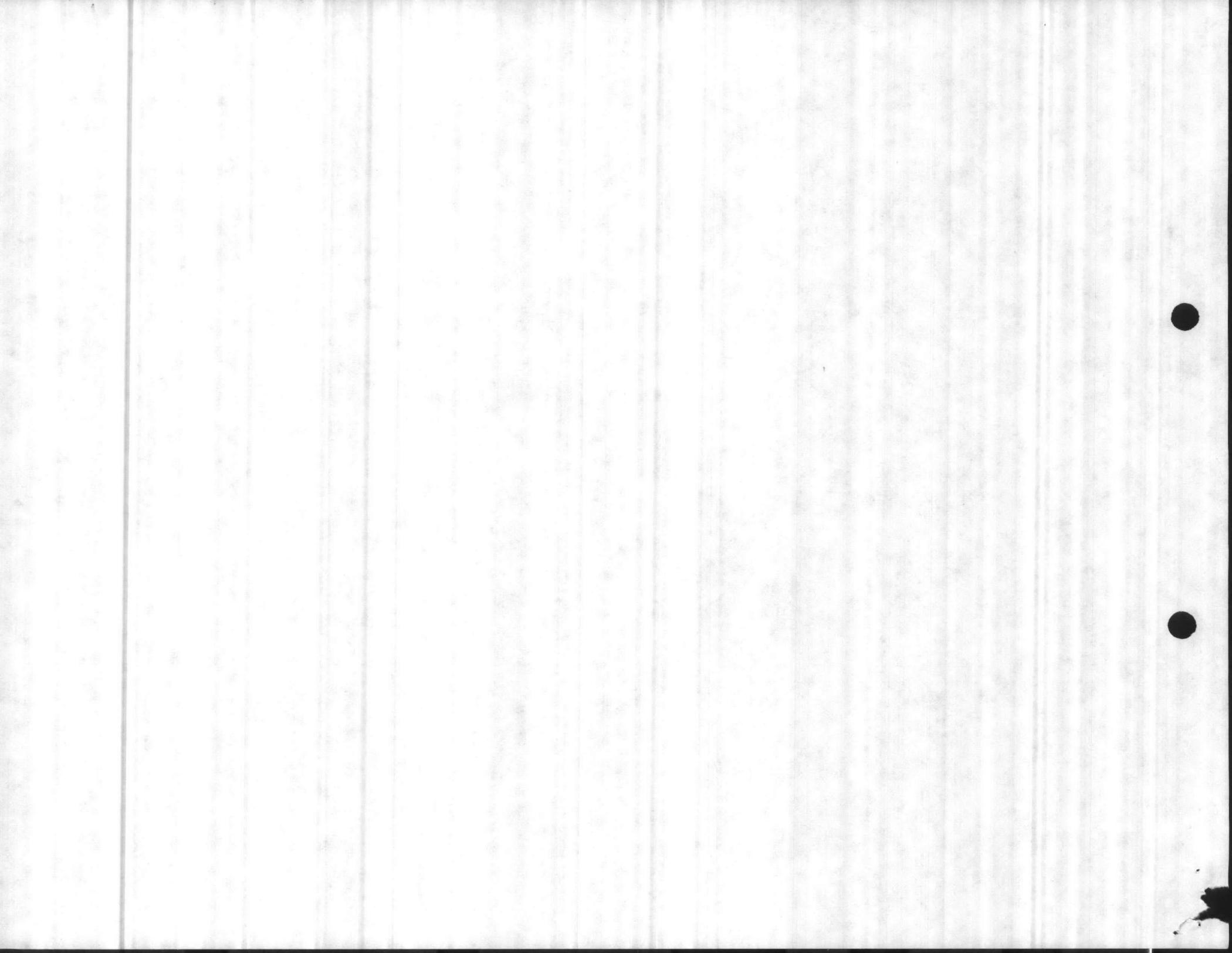
CATEGORY CODE NUMBER

STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify)

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST
6" DUCTILE IRON PIPE				23,232		16,600	39,830
6" GATE VALVE W/BOX				3,520		1,089	4,609
FIRE HYDRANTS (11)				8,580		2,310	10,890
6" DUCTILE TEE				120		29	149
12"X12"X6" DUCTILE TEE				350		55	405
6" DUCTILE IRON ELLS				480		118	598
EXCAVATE DIRT				3,161		5,945	9,106
COMPACT TRENCH BACKFILL						11,421	11,421
ASPHALT & GRAVEL				1,545		1,159	2,704
GRADE AND RESEED DITCH AREA				300		700	1,000
BASIC TOTAL				41,288		39,426	80,712
OVERHEAD 15%							12,107
LABOR 18%							7,097
MATERIAL 4.5%							1,858
SUB TOTAL							101,774
PROFIT 10%							10,177



COST ESTIMATE

DATE PREPARED
9-17-85

SHEET *2* OF *2*

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

FROM MAIN SERVICE ROAD TO SH-7

ESTIMATED BY

Huffman

CATEGORY CODE NUMBER

PROJECT TITLE

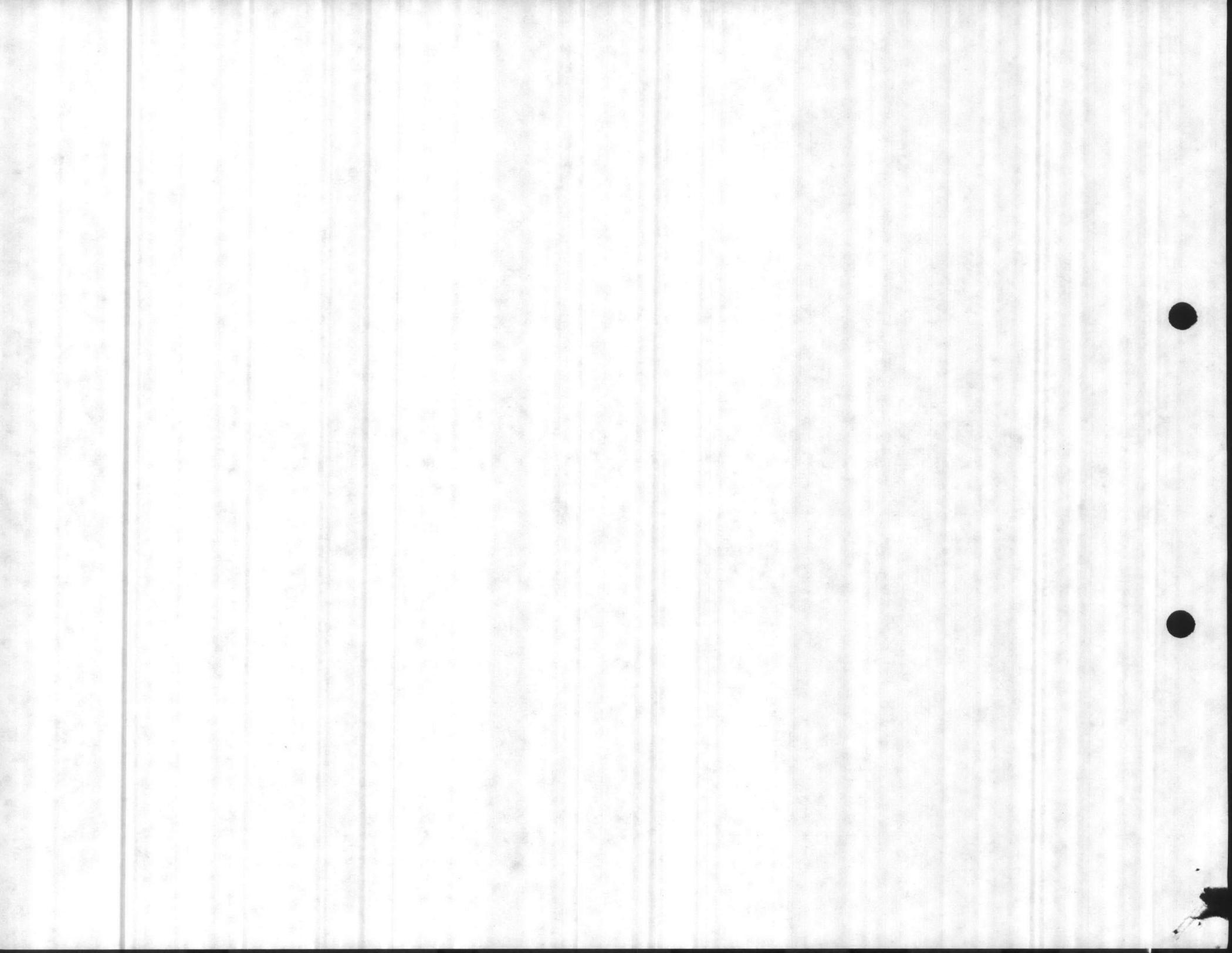
STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify) _____

JOB ORDER NUMBER

INSTALL POTABLE WATER LINE AND FIRE HYD.

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<i>SUB TOTAL</i>								<i>111,951</i>
<i>BOND 170</i>								<i>1,120</i>
<i>SUB TOTAL</i>								<i>113,071</i>
<i>CONTINGENCES 1070</i>								<i>11,307</i>
<i>BASIC TOTAL</i>								<i>124,378</i>
<i>DESIGN 670</i>								<i>7,463</i>
<i>TOTAL EST. COST.</i>								<i>131,841</i>



PROJECT - IMPROVEMENTS OF WASTE OIL STORAGE FACILITIES

COST: \$163,000

SITE: BLDG. 45

DESCRIPTION: A 50,000 gallon storage tank is required to handle the disposal of the increasing amount of waste oil. The system should include an oil separator, loading/unloading facility, the proper pumps and piping, and the necessary protection against spills and other disasters.

JUSTIFICATION: The storage tank and system is needed to separate the waste oil from the other impurities in the bulk waste. The present methods of separation and storage capacity is adequate for the volume of waste oil used on Camp Lejeune.

