

BASE MAINTENANCE DIVISION
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

DATE: 13 OCT 1987

FROM: BASE MAINTENANCE OFFICER, MARINE CORPS BASE, CAMP LEJEUNE, N.C.
TO: PUBLIC WORKS OFFICER, BUILDING 1005, MARINE CORPS BASE, CAMP
LEJEUNE, N.C.

SUBJ: ENGINEERING SERVICE REQUEST FOR PROJECT NUMBER - 8M69CN

ENCL: (A) ESTIMATE WORK SHEET(S) FOR M1 FUNDS
(B)

1. TYPE OF SERVICE REQUESTED:

REPAIR INT/EXT

BLDG 4 AND 403

INCORP WITH NAFI PROJECT

2. DESIRED COMPLETION FISCAL YEAR: 88

3. FUNDS TO BE PROVIDED UNDER SUB-FUNCTIONAL-CATEGORY: M1
BUILDING/FACILITY IDENTIFICATION FOLLOWS: 4, 403,

ESTIMATE COST IS \$ 541,000.00

4. POINT OF CONTACT IS GREG SHOEMAKER , PHONE 5794

J.D. Jewell
T.D. JEWELL
BY DIRECTION

883681

W. A. G. B.
1945
1946

COST ESTIMATE

DATE PREPARED
10-1-87

SHEET OF

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MCB BLDG-4 M-

ESTIMATED BY

CATEGORY CODE NUMBER

PROJECT TITLE

STATUS OF DESIGN

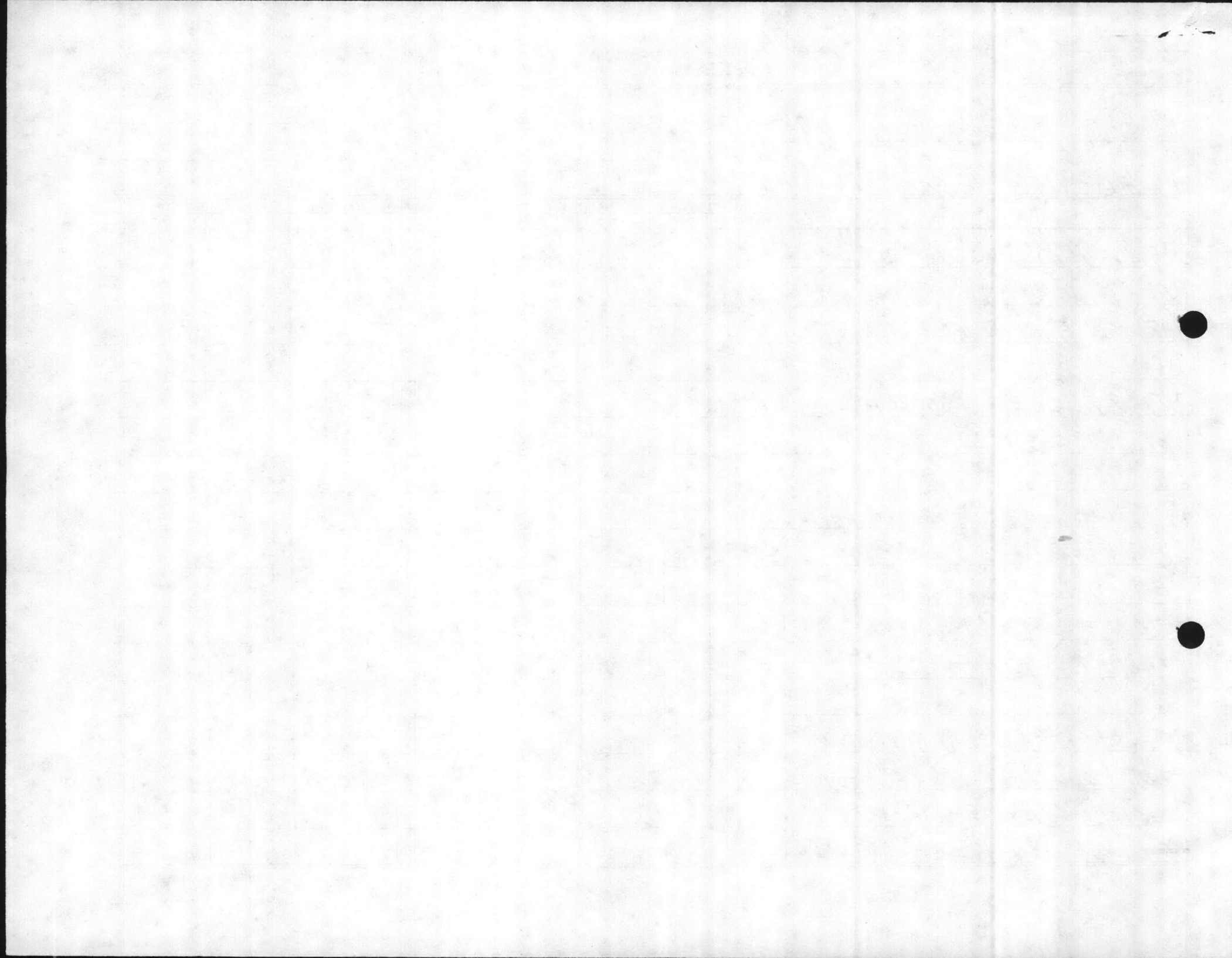
Huffman

JOB ORDER NUMBER

REPAIRS TO HVAC AND PLUMBING

PED 30% 100% FINAL Other (Specify) _____

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
DEMO ASBESTOS INSULATION AND PIPING OF STEAM, POTABLE WATER, THROUGH BUILDING AND STEAMPIT. DEMO CONDENSATE PIPING AND RADIATORS. DEMO ASBESTOS FROM AND HOT WATER STORAGE TANK.				700		10,400		11,100
EXISTING SNACK BAR AND BARBER SHOP AREA-DEMO ALL WASTE, VENTS, DRAINS, FLOOR DRAINS, POTABLE WATER, VENT HOOD AND EXHAUST SYSTEM.				—		950		950
* NOTE: SEE ATTACHED DIAGRAM FOR FAST FOOD AREA. ROUGH INS, CONNECTIONS, AND EQUIPMENT TO BE FUNDED BY SPECIAL SERVICES.								



COST ESTIMATE

DATE PREPARED
4-27-87

SHEET OF

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MCB - BLDG 4

ESTIMATED BY

CATEGORY CODE NUMBER

PROJECT TITLE

Huffman

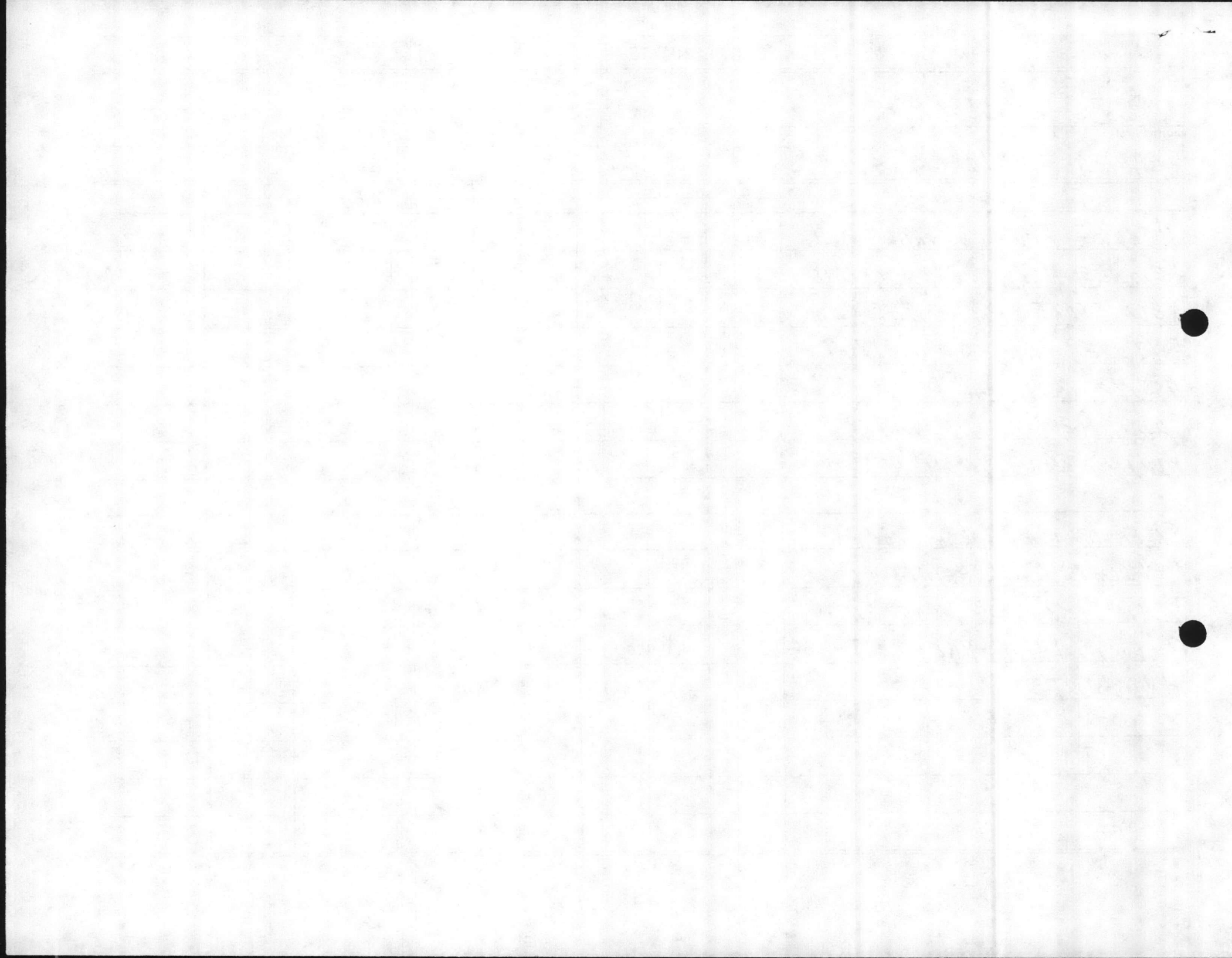
REPAIRS TO HVAC AND PLBGC.

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
HEADS - PROVIDE MALE AND FEMALE HEADS. PROVIDE ALL NEW STATE OF THE ART PLUMBING FIXTURES, VALVES AND TRIM AS PER NATIONAL PLUMBING CODE. REPLACE ALL WATER PIPING AND INSULATE.				1,728		1,300		3,028
EXTERIOR CAN WASH AREA - RELOCATE AND REPLACE FLOOR DRAIN. PROVIDE ONE EACH COLD AND HOT FREEZE PROOF HYDRANTS.				670		780		1,450



3

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

COST ESTIMATE

DATE PREPARED
9-30-87

SHEET OF

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MCB BLDG # 4

ESTIMATED BY

Huffman

CATEGORY CODE NUMBER

PROJECT TITLE

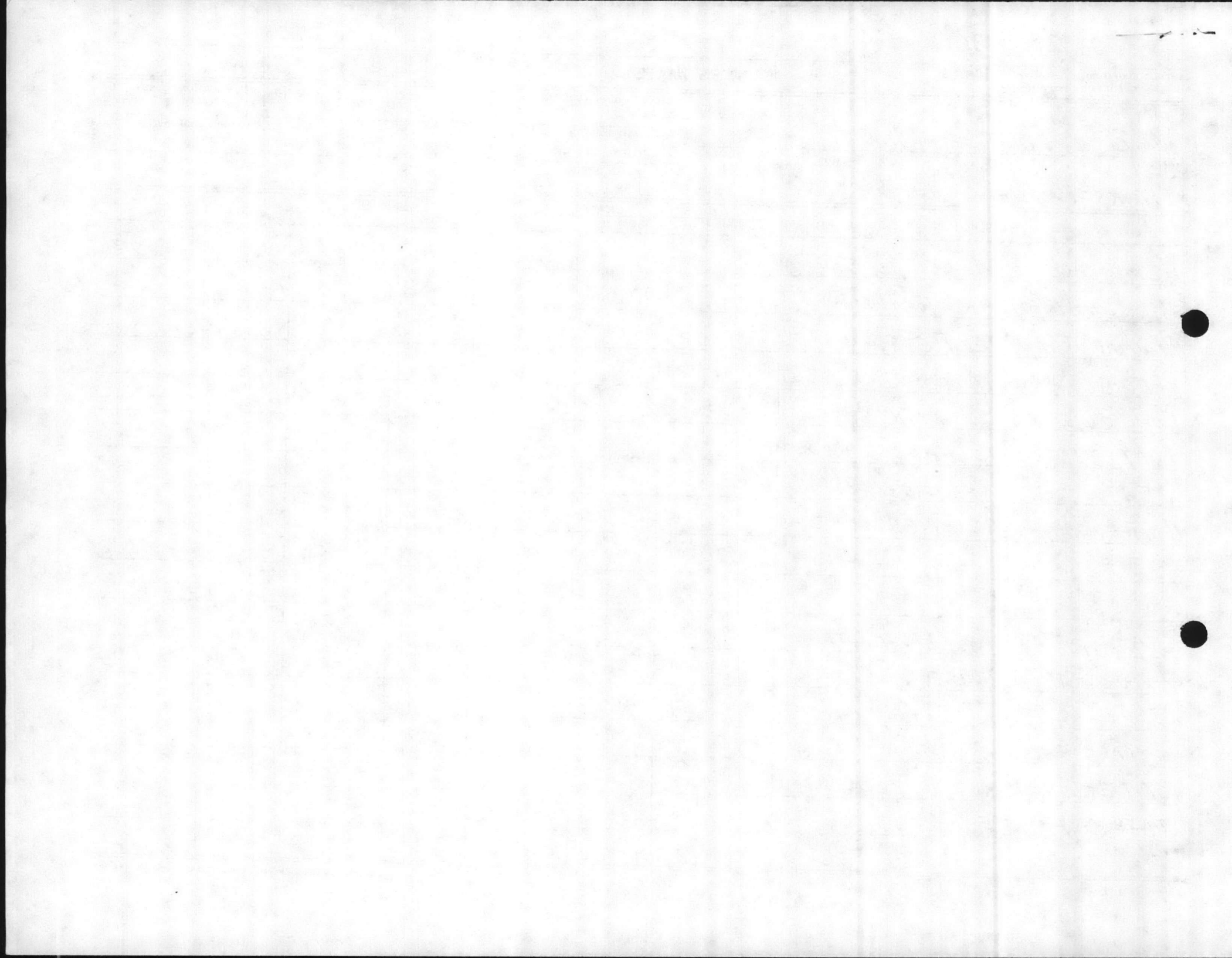
REPAIRS TO HVAC AND PLBG.

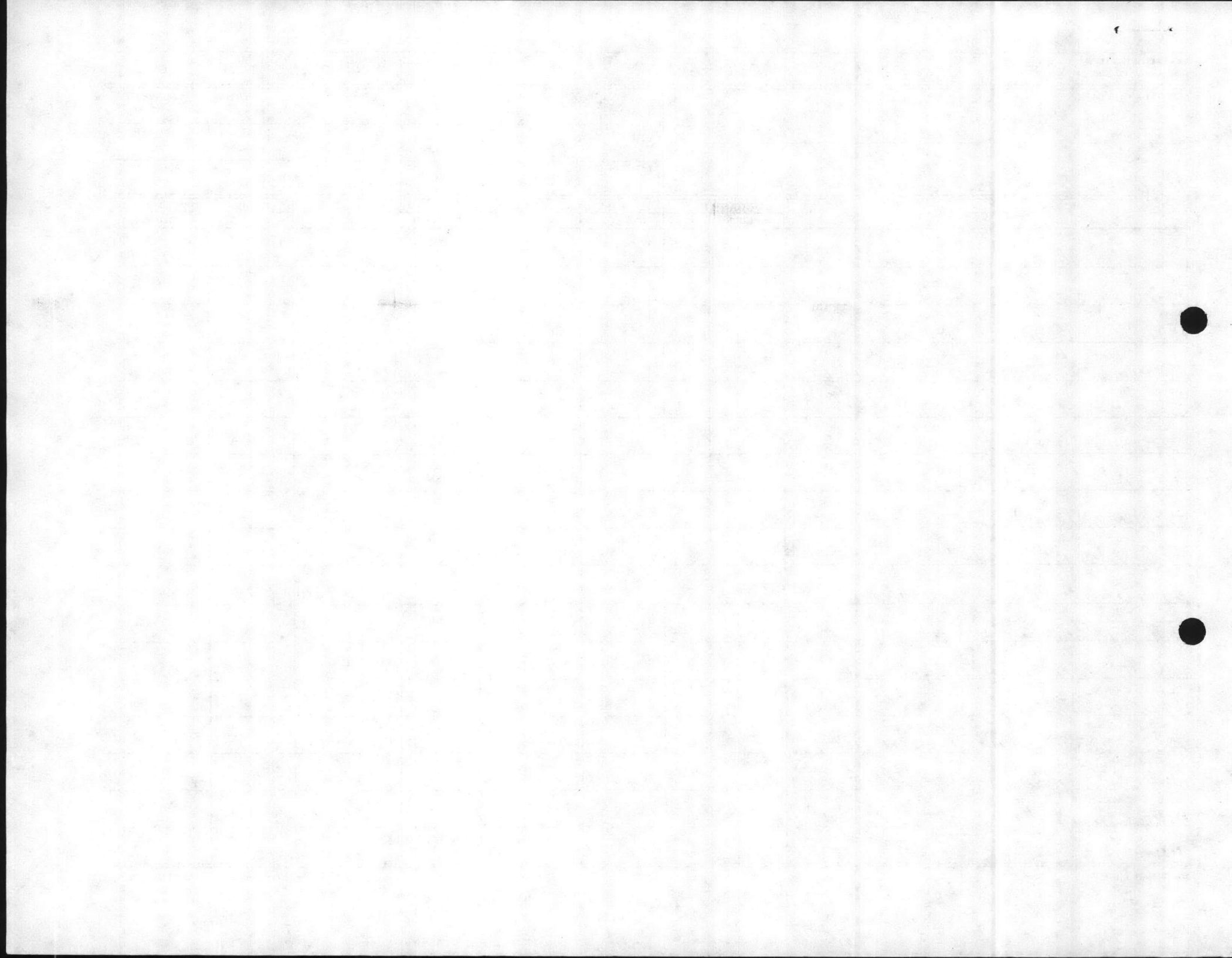
STATUS OF DESIGN

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
DEMO AND REPLACE ALL EXISTING AIR CONDITION AND HEATING EQUIPMENT AND DUCT SYSTEM. PROVIDE NEW INSULATED DUCT FOR BUILDING IN ATTIC SPACE. DUCT SYSTEM TO HAVE STEAM HEATING COIL. PROVIDE ALL CONTROLS AS REQUIRED.				20,000		25,000		45,000
STEAM PIT AREA - REPLACE ALL PIPING, STEAM TRUSTATION, CONDENSATE AND SUMP PUMP. REPLACE EXISTING STEAM HOT WATER TANK WITH ELECTRIC WATER HEATER.				3,612		950		4,562
TOTAL				26,710		39,380		66,090





COST ESTIMATE

DATE PREPARED
9-30-87

SHEET *3* OF *6*

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MEB. Camp Lejeune N.C.

ESTIMATED BY

CATEGORY CODE NUMBER

PROJECT TITLE

Blanton-

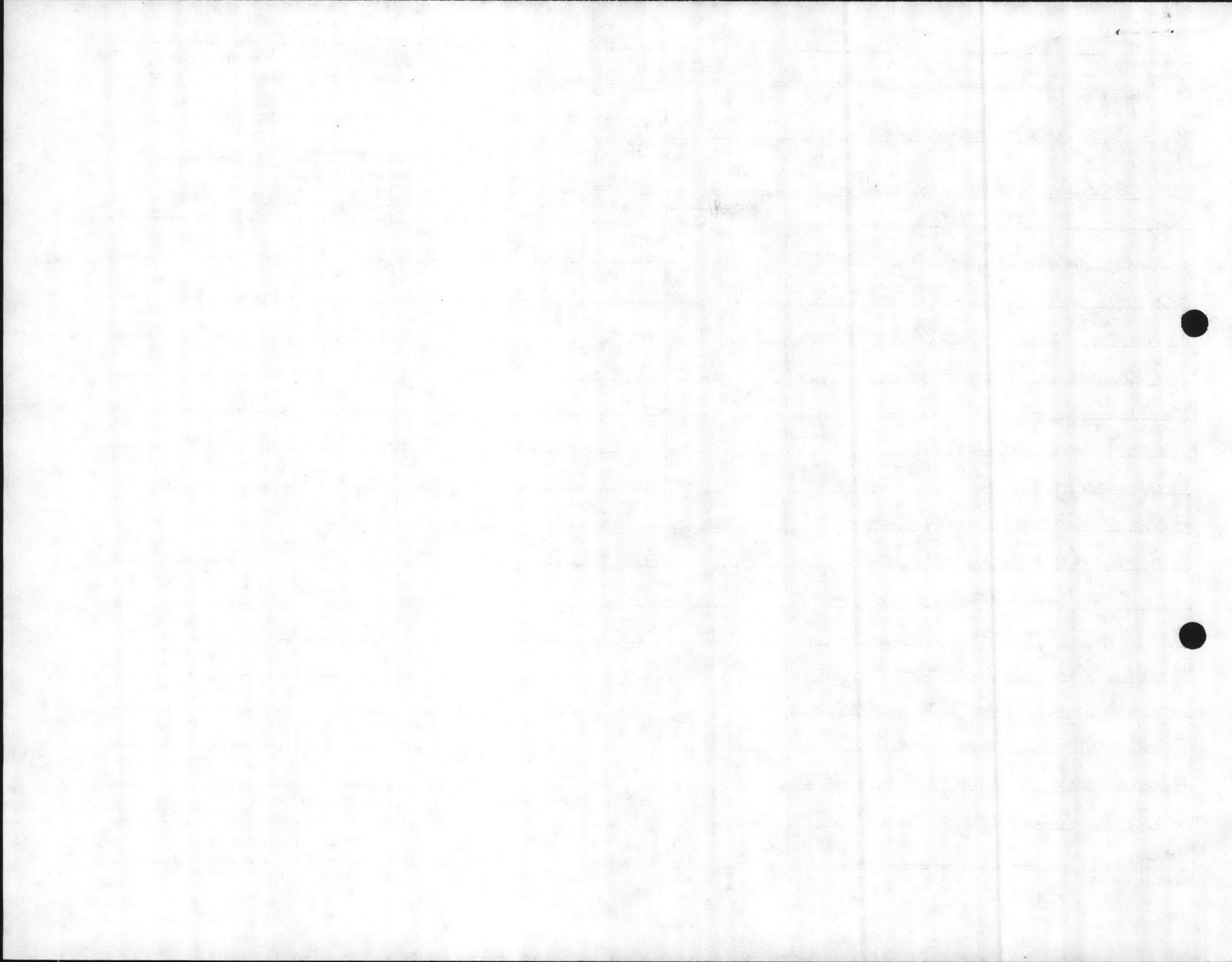
JOB ORDER NUMBER

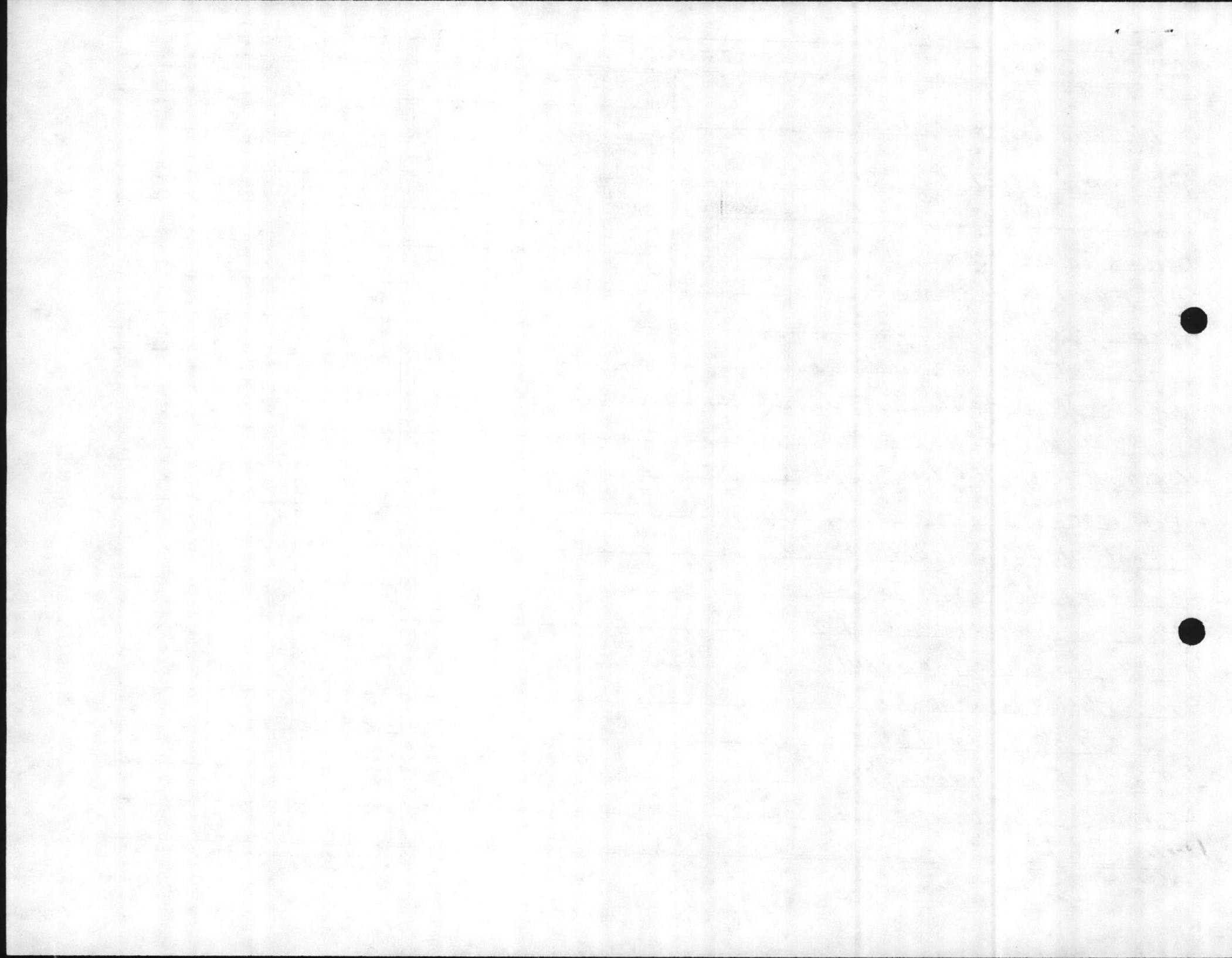
RENOVATE Elect Sys. Bldg. 4

STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify) _____

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<i>Remove Form Bldg All Abandon</i>				<i>4440</i>		<i>4060</i>		<i>8500</i>
<i>Conduit, wire, junction boxes,</i>								<i>12500</i>
<i>panels & disconnects. Replace</i>								
<i>All Romex wire w/conduit &</i>								
<i>thin type wire. Replace All</i>								
<i>(2) wire ungrounded lighting,</i>								
<i>Receptacles, switches & Equip</i>								
<i>Branch circuits w/(3) wire</i>								
<i>grounded circuits. Reconnect &</i>								
<i>Existing & new Equip & their</i>								
<i>associated parts. Ground,</i>								
<i>Bond & label All Elect. Equip</i>								
<i>Per NEC. All New Raceways</i>								
<i>To be recessed in walls or</i>								
<i>Above new ceiling. All surface</i>								
<i>mounted Raceways to be</i>								
<i>wire mold type.</i>								





COST ESTIMATE

DATE PREPARED
9-30 87

SHEET 5 OF 6

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MCRB Camp Lejeune NC.
PROJECT TITLE

ESTIMATED BY

CATEGORY CODE NUMBER

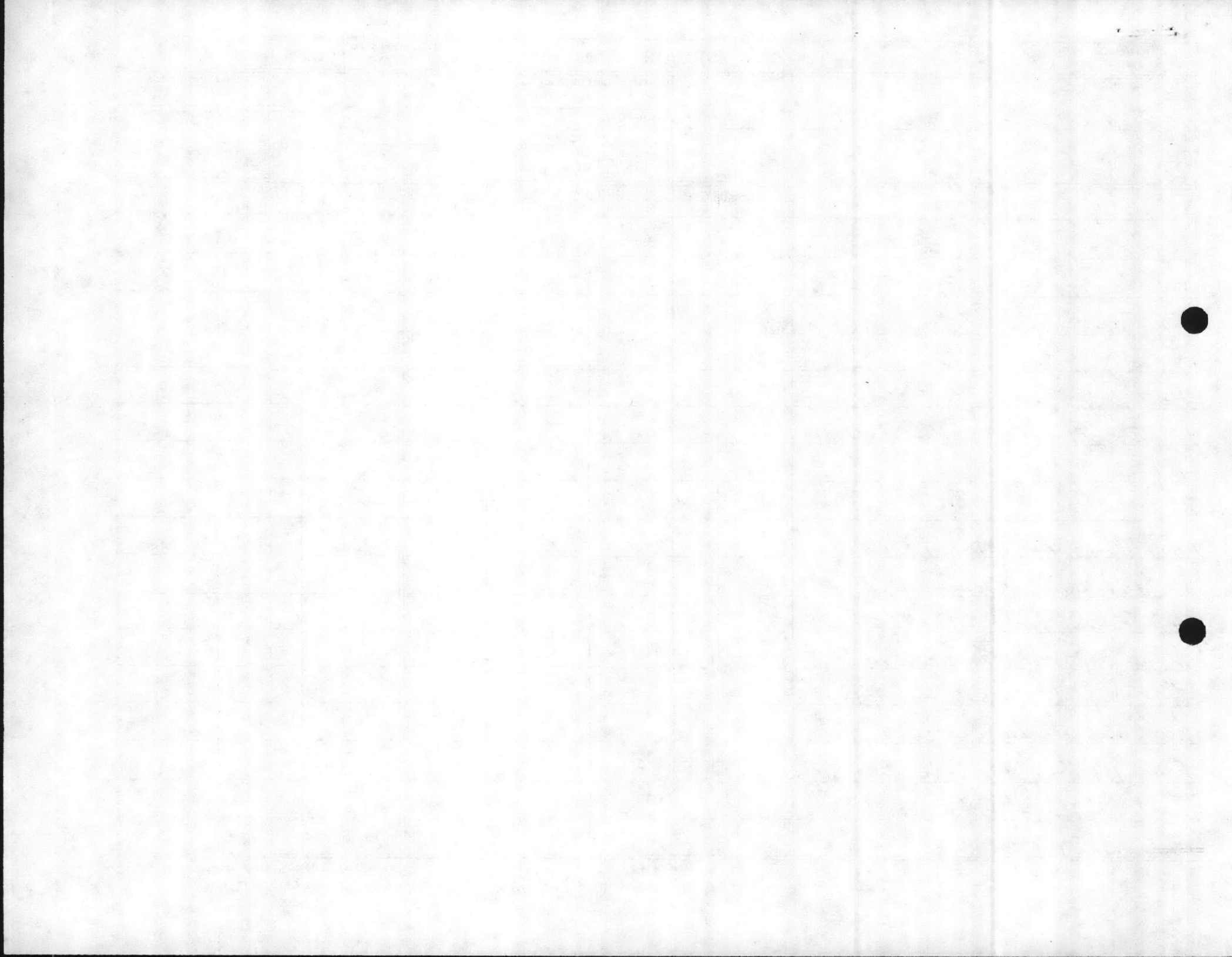
STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify) _____

JOB ORDER NUMBER

RENOVATE Elect. Sys. Bldg 4

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
Replace & Rewire Fly Fans over outside Doors, (Four Fly Fans Each (2) sets Double Doors -) (2) over EA over Double Doors.				800		400		1200
Repl Existing Exit & Emergency lights w/ New self-contained units.				960		240		1200
Repl Existing Fire Alarm & Detection System w/ New state of the Art System New system to be connected to control Ansul System & Cooking Equip. Test All Fire Alarm System. For info contact Base Fire Dept. (Ext. 5815)				2000		2000		4000



COST ESTIMATE

DATE PREPARED
9-30 87

SHEET 6 OF 6

ACTIVITY AND LOCATION

MCB. Camp Lejeune NC.

PROJECT TITLE

Renovate Elect Sys. Bldg. 4

CONSTRUCTION CONTRACT NO.

ESTIMATED BY

BLANTON

STATUS OF DESIGN

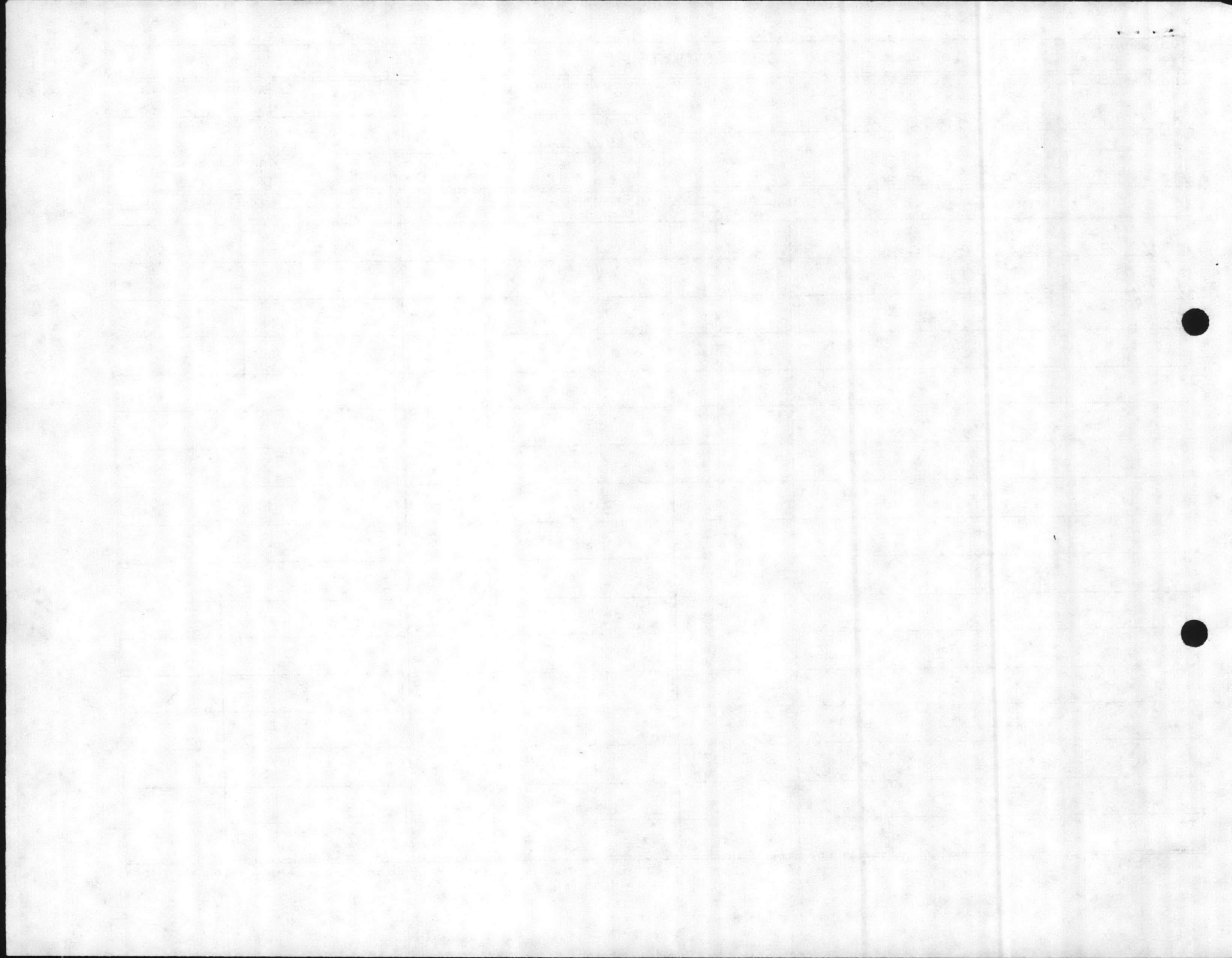
PED 30% 100% FINAL Other (Specify)

IDENTIFICATION NUMBER

CATEGORY CODE NUMBER

JOB ORDER NUMBER

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<i>Repl Exhaust System in Heads.</i>				<i>300</i>		<i>100</i>		<i>400</i>
				<i>17459</i>		<i>15600</i>		<i>33059</i>



COST ESTIMATE

DATE PREPARED
9-30-87

SHEET 1 OF 3

ACTIVITY AND LOCATION

4 Mc

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

PROJECT TITLE

ESTIMATED BY

James Hawyn

CATEGORY CODE NUMBER

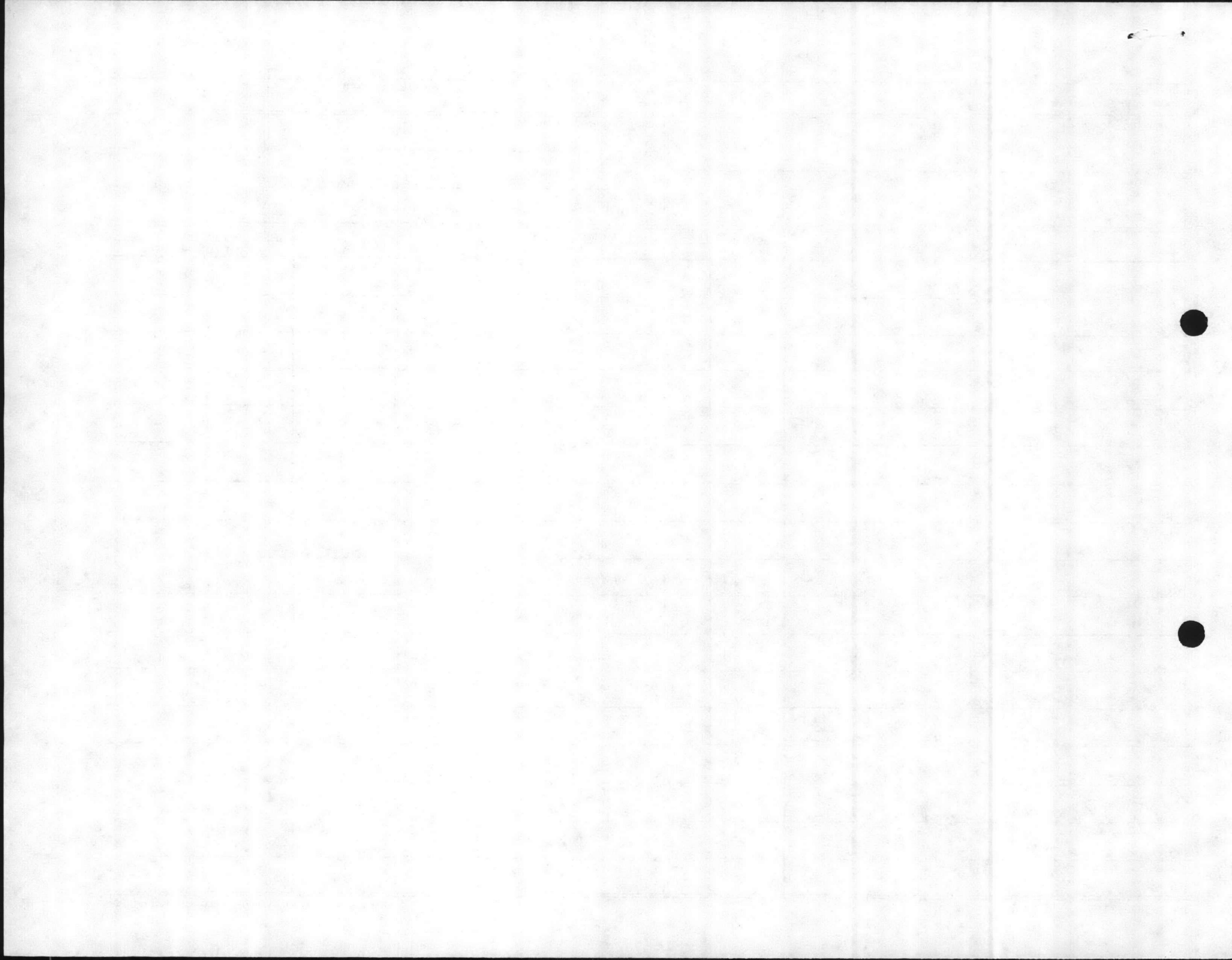
STATUS OF DESIGN

PED 30% 100% FINAL Other (Specify)

JOB ORDER NUMBER

interior & exterior renovation

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
<i>Demo. & replace Ceramic Floor w/ terrazzo tiles.</i>	3333	S.F.	3.56	11,865	2.80	9,332	6.36	21,198.
<i>Demo. & replace suspended Ceiling, Arcade, re suspend Ceilings throughout</i>	3333	S.F.	.93	3100	.83	2,766.	1.76	5,866.
<i>Re-insulate attic space R-30 (asbestos Contaminated)</i>	3333	S.F.	.77	2,566	.77	2,566	1.54	5,133
<i>Demo 19 obsolete Windows Door and brick in Cavities Replace 4 windows w/ security bars (1/46) (1/7) (1/7) (1/28) on drawing # 142610</i>	23	EA	190.	4,370	200.	4,600	390.	8,970.



COST ESTIMATE

DATE PREPARED
9-30-87

SHEET 2 OF 3

ACTIVITY AND LOCATION

4

CONSTRUCTION CONTRACT NO.

ESTIMATED BY

James Lawry

IDENTIFICATION NUMBER

CATEGORY CODE NUMBER

PROJECT TITLE

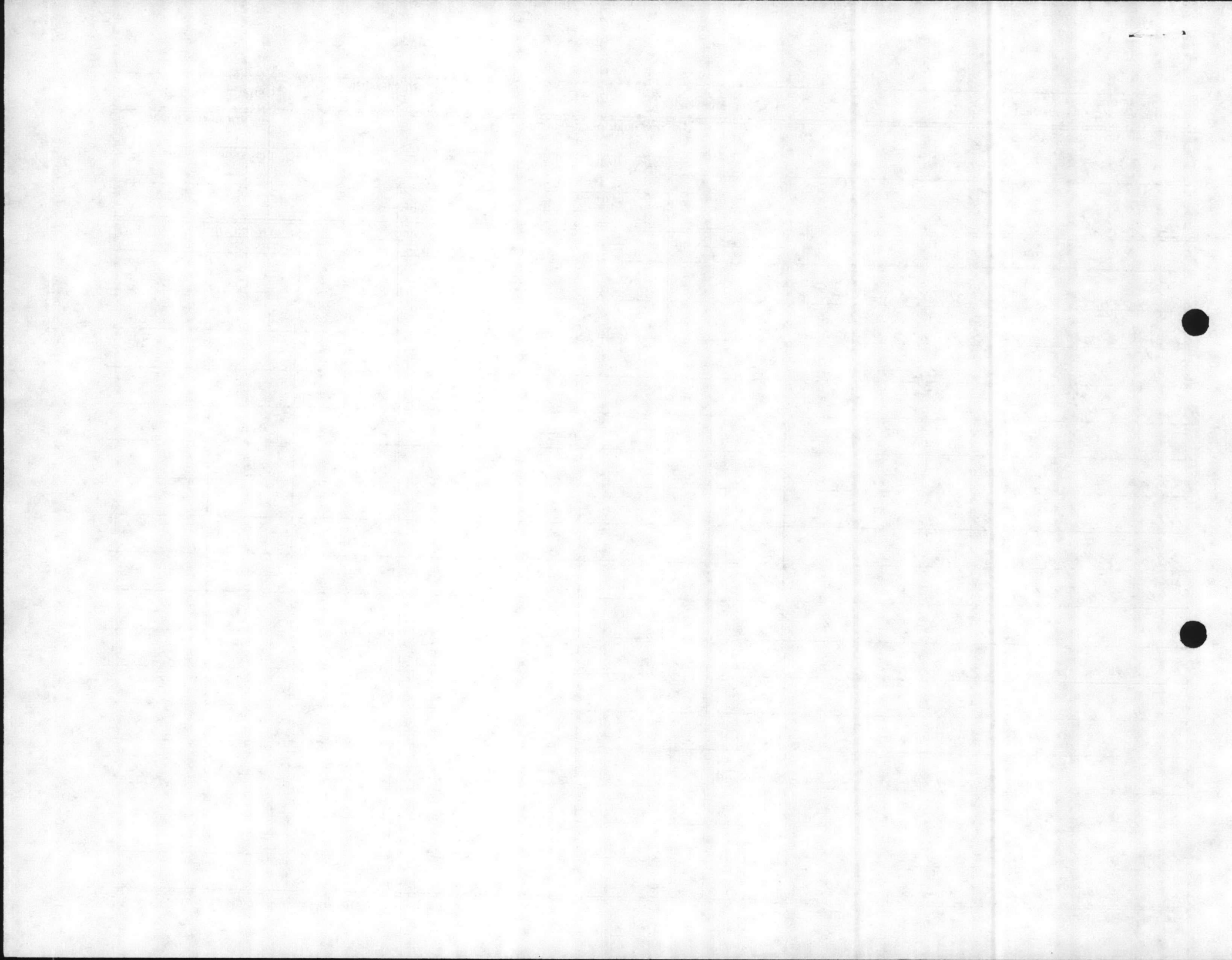
interior & exterior renovation

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
<i>Demo partition walls harbor shop and arcade, correct load deficiency created by removing walls</i>	918	SF	1.30	1193	1.90	1744.	3.20	2938.
<i>Demo. & replace garbage can wash house, redesign and move structure from between 4 and 4 A.</i>	96	SF.	7.	672	5.50	528.	12.50	1200.
<i>Demo. & Repl. double exit doors w/ fly tons.</i>	2	EA	890.	1780	270.	540.	1160	2320.
<i>Fur out walls install sheet rock paneling & chair rail, wainscot w/ vinyl above. Arcade area food service area Ceramic wall tile</i>	2112	SF	8.50	17952	7.50	15840	16.	33792.



COST ESTIMATE

DATE PREPARED
9-30-87

SHEET 3 OF 3

ACTIVITY AND LOCATION

4

CONSTRUCTION CONTRACT NO.

ESTIMATED BY

Jimmie Sawyer

IDENTIFICATION NUMBER

CATEGORY CODE NUMBER

PROJECT TITLE

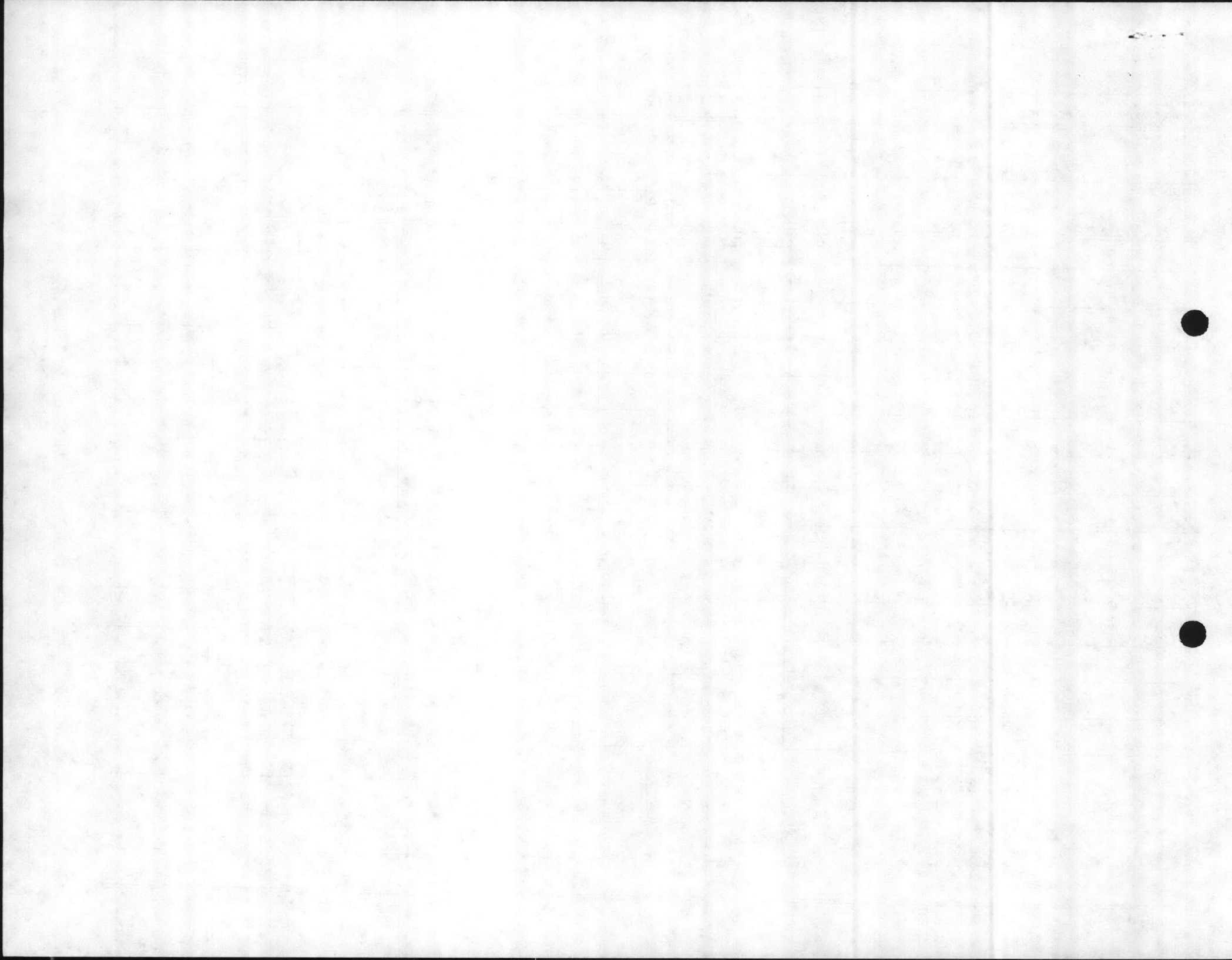
interior & exterior Renovation

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
<i>demo. & repl. door and canopy at service entry.</i>	36	SF.	7.50	270	6.00	216	13.50	486.
<i>Cover all exterior wood work</i>	528	SF	2.78	1468	2.20	1162.	4.98	2,629.
<i>Soppitt louvers, w/ vinyl also 4 A repair soppitt and install vinyl.</i>								
<i>demo. & replace front & rear canopy</i>	144	SF.	7.50	1,080.	6.00	864.	13.50	1944.
<i>Total Cost estimate</i>				46,316		40,158.		86,476



COST ESTIMATE

DATE PREPARED
10-1-87

SHEET **OF**

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MCB BLDG-4

ESTIMATED BY

CATEGORY CODE NUMBER

PROJECT TITLE

Huffman

INTERIOR AND EXTERIOR REPAIRS

STATUS OF DESIGN

JOB ORDER NUMBER

PED 30% 100% FINAL Other (Specify) _____

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
STRUCTURAL				46,316		40,158		86,476
ELECTRICAL				17,459		15,600		33,059
MECHANICAL				26,710		39,380		66,090
SUBTOTAL				90,485		95,138		185,623
OVERHEAD 15%								27,843.
LABOR 18%								17,125.
MATERIAL 5%								4,524.
SUBTOTAL								235,115
PROFIT 10%								23,512.
SUBTOTAL								258,627
BOND 1%								2,586
SUBTOTAL								261,213
CONTINGENCY 10%								26,121
TOT EST COST								287,334
							Say	287K





MARINE CORPS EXCHANGE 0131
MARINE CORPS BASE
CAMP LEJEUNE, NC 28542-5003

IN REPLY REFER TO:

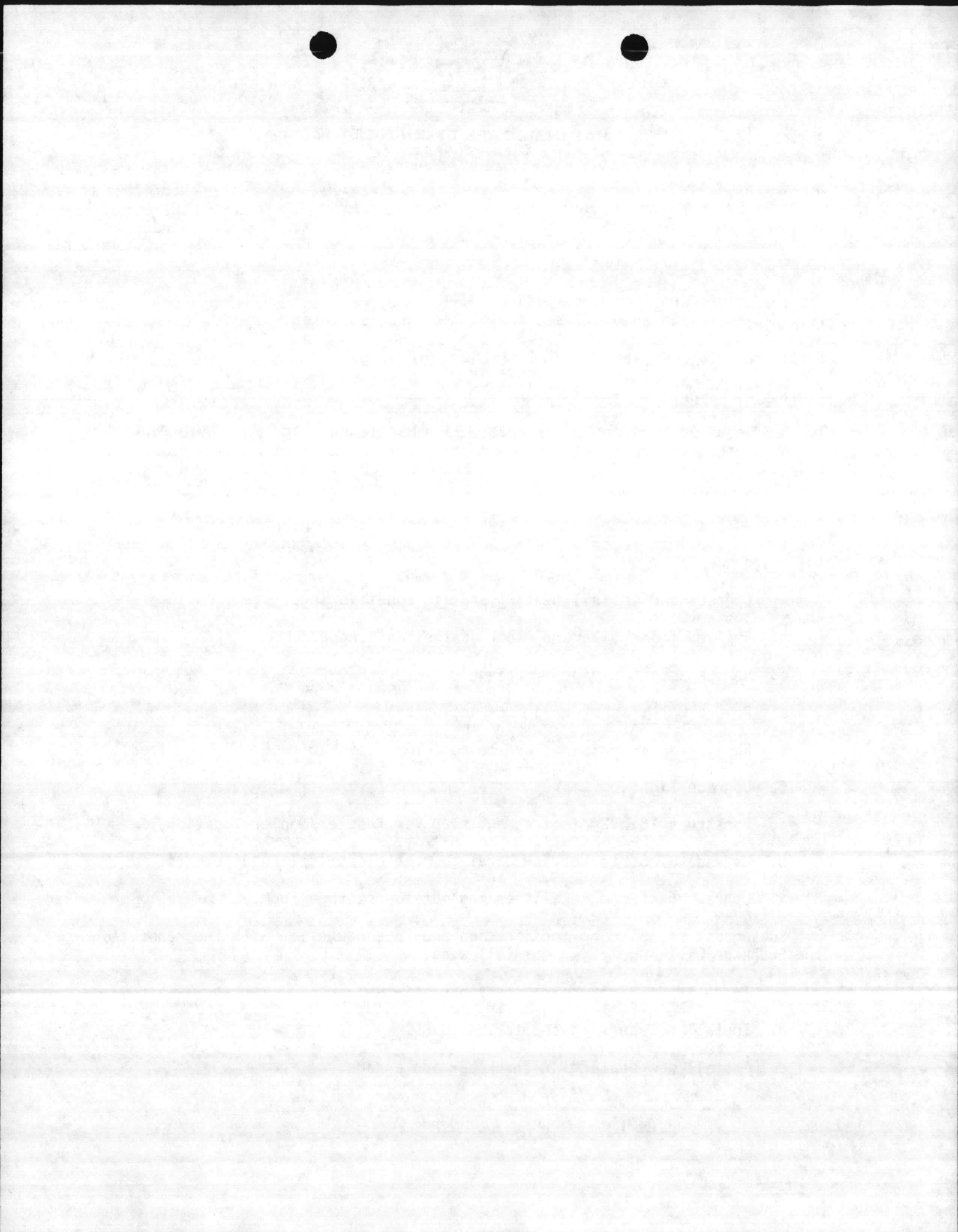
4066/4700
MCEX-8
19 Aug 87

From: Marine Corps Exchange Officer
To: Base Maintenance Officer (Attn: Mr. Greg Shumaker)

Subj: PLANNED IMPROVEMENTS TO EXCHANGE FACILITIES

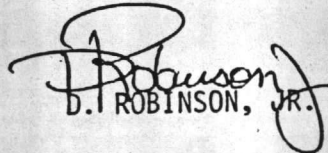
Encl: (1) Layout

1. As discussed between Mr. Shumaker, Base Maintenance and Mr. David Parker, Exchange Property and Maintenance Director, the Exchange plans to upgrade the Building #4 Snack Bar and the Area #4 Snack Bar, Building 403, during Fiscal Year 1988.
2. The enclosure is the planned layout of the food preparation area. To facilitate the improvements it is requested Base Maintenance accomplish the following work.
 - a. Upgrade and install heating and air conditioning system.
 - b. Replace floor tile and floor drains, as needed.
 - c. Remove asbestos pipe wrapping.
 - c. Remove wall (as shown in the enclosure).
 - e. Repair/replace windows and doors (eliminating windows not required).
 - f. Upgrade lighting.
 - g. Construct 10 X 20 foot cement slab for freezer/cooler location.
 - h. Upgrade electric service panel to meet electrical requirements.
 - i. Upgrade restroom facilities and outside storage room.
3. Subsequent to building modification and in conjunction with the renovation the Exchange will accomplish the following:
 - a. Install new kitchen and snack bar equipment.
 - b. Install new serving counter.
 - c. Install new seating in snack bar and arcade.



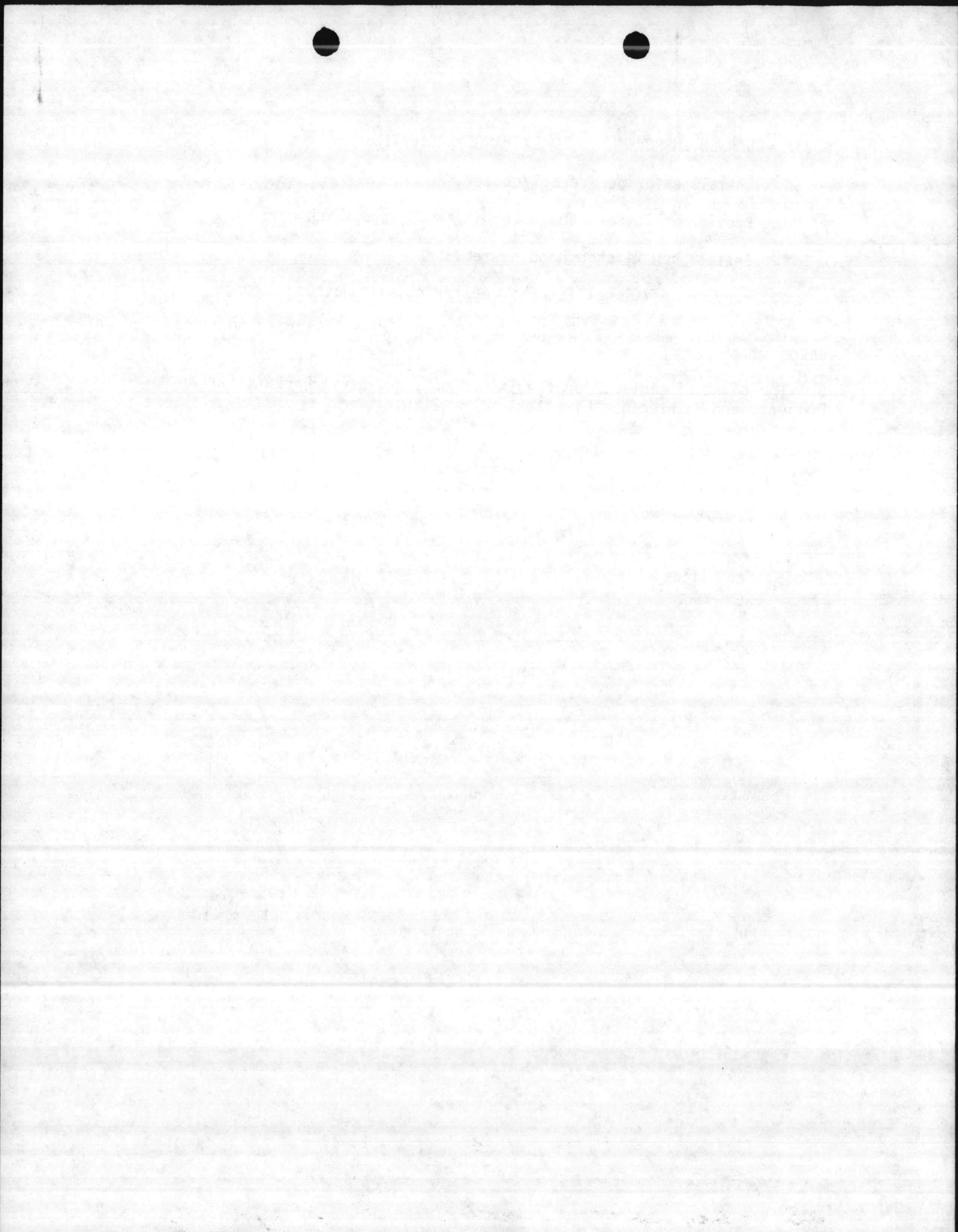
Subj: PLANNED IMPROVEMENTS TO EXCHANGE FACILITIES

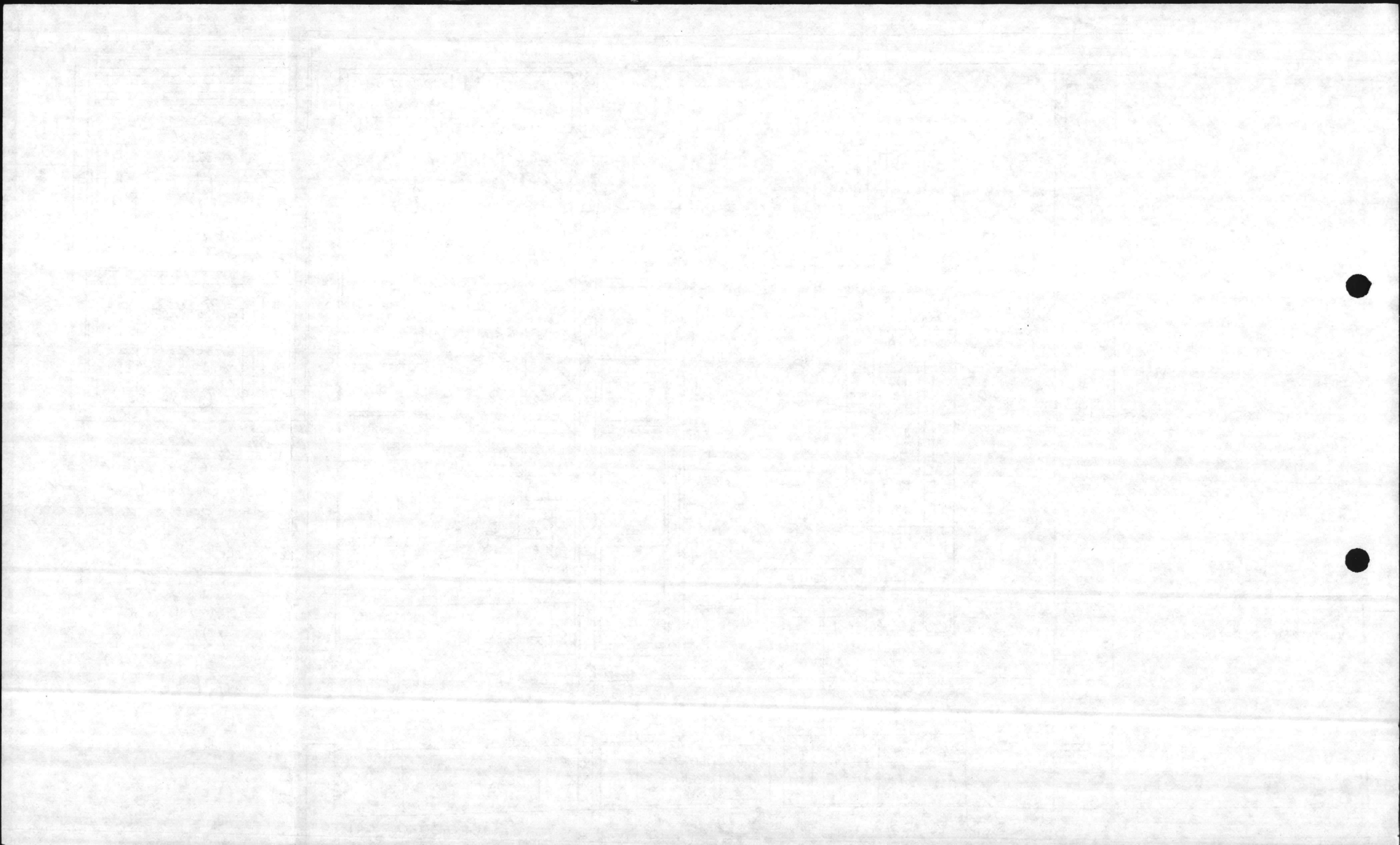
- d. Install exterior freezer/cooler.
 - e. Provide wall treatment decor in arcade and snack bar.
 - f. Install new kitchen hood system.
 - g. Provide additional interior upgrading as required.
4. The enclosure depicts kitchen layouts and walls that need to be removed in each building.
5. The point of contact for the Exchange is Mr. David Parker, Exchange Property and Maintenance Director, phone 2135.


D.I. ROBINSON, JR.

Copy to:
ACoS, MWR
ACoS, Facilities

ITEM "G"
will fall under
~~THE~~ THE EXCHANGE'S
PORTION





NEW LOCATION FOR AIR HANDLER

WALL

TRASH

SERVICE EQUIPMENT

CASH REC

CASH REC

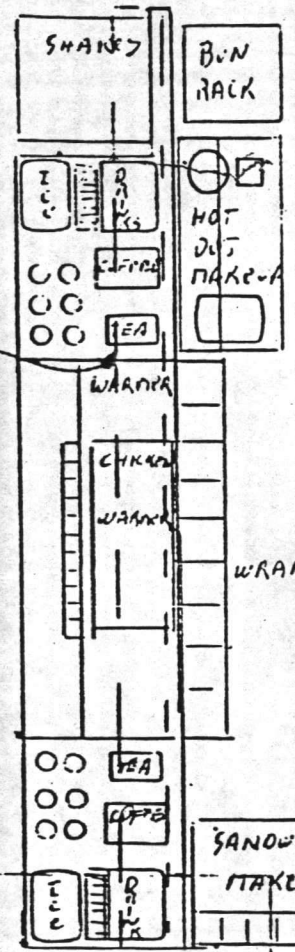
FRONT COUNTER

CASH REC

LIFT DATE

Remove Existing Wall (Barber Shop)

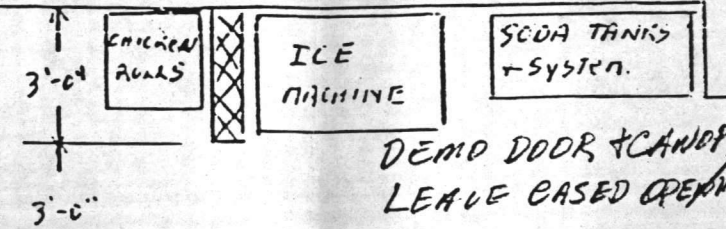
MENU BOARD



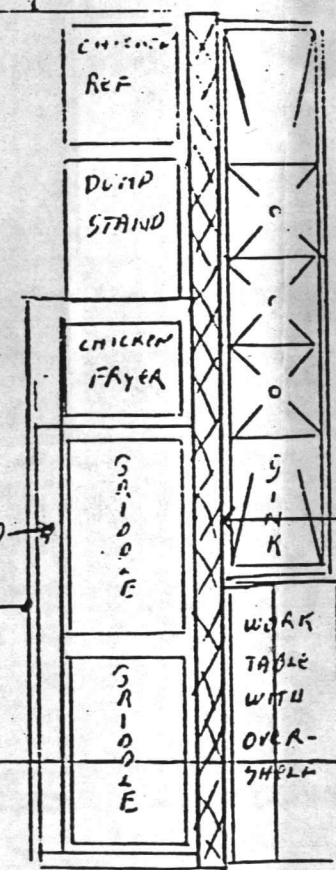
WRAP

21'-0"

STAND HOOD

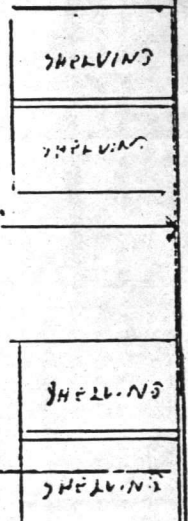


DEMO DOOR + CANOPY LEAVE BASED OPENING

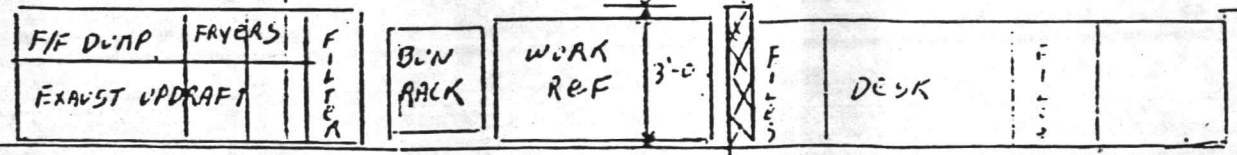


10'-0"

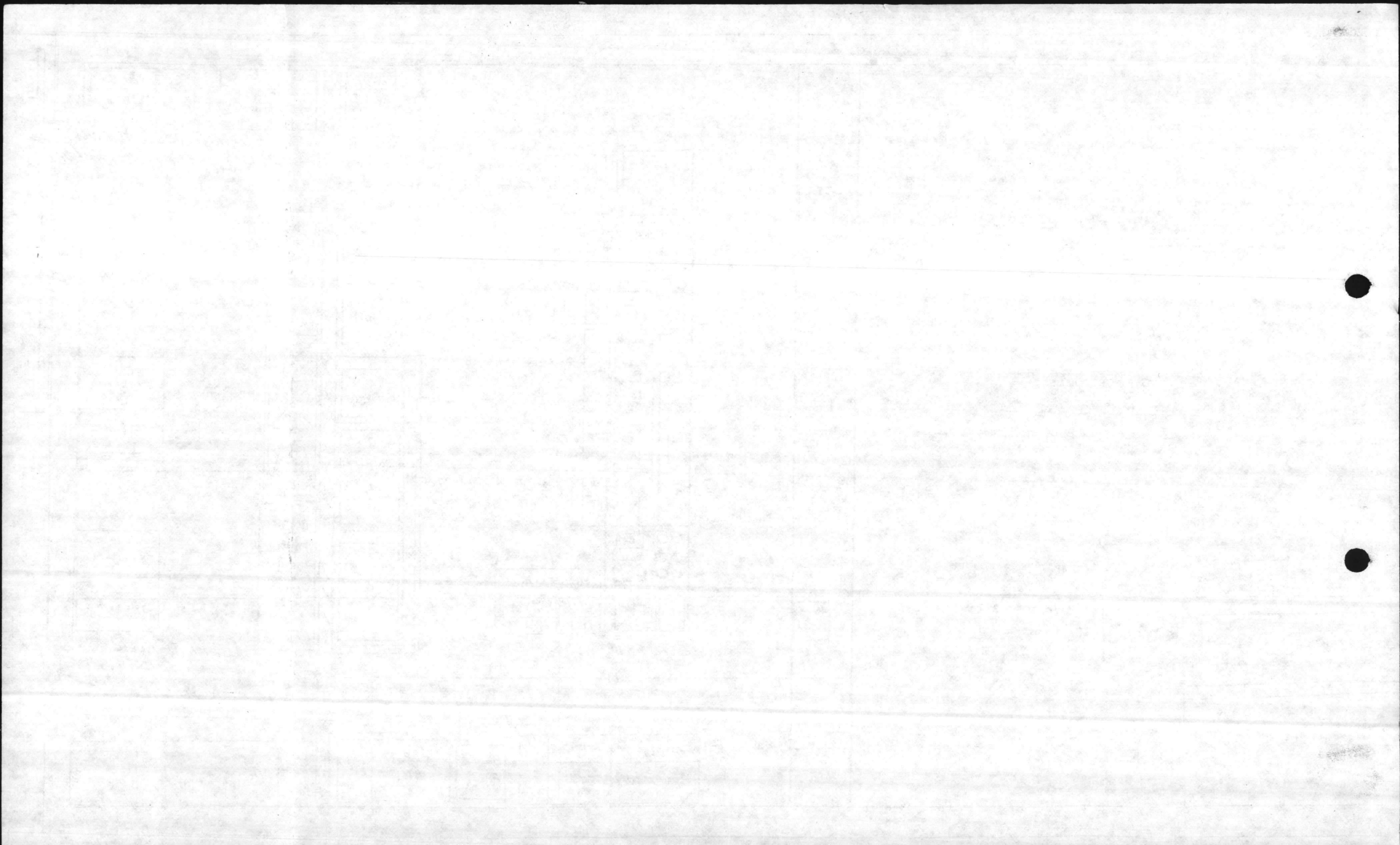
WORK TABLE WITH OVER-SHIELD



DEMO DOOR AND CANOPY REPLACE SAME



3'-0"



Special instructions (with Lisa)

Line A.

- 1 - 120v 20amp circuit for pastry box
2. At least 2 - 15 or 20amp 120v circuits for cash registers
3. 1 - 120v 20amp circuit for salad box

* Need stub ups for all 4 circuits with app. 10' of free conductor for flexing into counter. 2 register circuits can come up in same run located in center of counter. Stub ups should be no higher than 2" above finished floor grade.

Line B.

1. Counter has a built in junction box located behind the sandwich make up table. This box has a grounding terminal strip in it, only one grounding conductor needed to strip, possibly a #8 copper.

2. Items listed below are located in this junction box.

① 4 - 120v 20amp circuits - 2 for Drink Heads & Ice Tea Dispensers - 2 for Coffee

② 1 - 120v 20amp circuit for under the counter refer located under sandwich holding table.

③ 2 - 208v^{1ϕ} 20amp circuits for Ice makers

④ 2 - 208v^{1ϕ} 20amp circuits for sandwich holding table

⑤ Function strips inside this box junction both hot leads & neutral leads.

⑥ an additional circuit of 120v 20amps is needed in this same area for the sandwich make up table & possibly 1 spare circuit of 120v 20amps brought up with it.

⑦ OVER

Hit Spot #1 on Line B

Hit Spot #2 on Line B

Line B

#7 Items listed below are needed in Hit spot #3

1 - 208v 20amp 1 ϕ circuit For Hot dog make up table.

2 - 208v 20amp 3 ϕ circuits For milkshake machine For soft serve Icecream.

3 - 1 - 208v 20amp 1 ϕ circuit For toaster (NOT shown)

4 - 1 - 120v 20amp circuit For Chilepot (NOT shown)

5 - 1 - 120v 20amp circuit For Fresh-o-matic (NOT shown)

work table will be placed possibly where bun rack is located.

6 - Possibly 2 spare 120volt 20amp circuits brought in this same area.

7 - 1 - 120v 20amp circuit for Chicken warmer (on top of Sandwich Holding)

All 3 hit spots should be located in floor in the center (width wise) of line B. (Stub ups - max 2" above finished floor grade with 10' of free conductor

Items listed on hit spots #2 & 3 will be cut into counter later (outlets are not pre wired on counter)

All 3 hits should be stub ups out of floor with approximately 10' of free conductor left out of stub for flexing into unit.

Items listed in hit spots #2 & 3 will not have a grounding strip & require individual grounding per circuit.

all stub ups should be no taller than 2" above finished floor grade

#3
Hit Spot #3
Line B
2-3 ϕ 20amp 208/230volt
Circuits For Soft Serve
Ice cream beside milkshake
machine Stub up

Line C Front

- ① Under hood all circuits will shunt when ansul system is activated - Dampers will close, exhaust & intake air will shunt & wash down will bypass timer in gaylord control.
- ② 2 - griddles are 14.4 Kw, 208 volts 3 ϕ
- ③ Chicken Fryer is ~~11 Kw~~ 11 Kw / 208 3 ϕ
- ④ Dump Stand will require a 120v 20amp circuit for heat lamps (wall receptacle)
- ⑤ Chicken refer - 1 - 120 volt 20amp circuit (wall receptacle)
- ⑥ The 2 griddles & the chicken Fryer should be stub ups out of the Floor at least 4" off finished wall with approximately 10' of Free Conductor left out of stub up for flexing.
- ⑦ An additional stub up for a Char. grill not pictured between the griddle & the chicken Fryer is required. Circuit ampacity of 70 Amps 120/208 volts 1 ϕ required
- ⑧ 2 griddles, chicken Fryer, & Charbroil circuit will be located under the hood & will shunt when ANSUL is activated.

Dump Stand & Chicken are not under hood & don't have to shunt

All stub ups on either side of line C should be no higher than 2" above finished Floor grade.

Line C Back

- ① a 3 ϕ 30 Amp 208 circuit is required under work table beside Slop Sink for a booster hot water heater (not shown) Stub up app. 4" off finished wall required with app. 10' Free Conductor for flexing to unit.

LINE D.

- 11L
1/20: t
- ① 1- 120 volt 20amp circuit for French Fry Dump (wall outlet)
 - ② 1- 120 volt 20amp circuit for refer under French Fry Dump (wall outlet)
 - ③ 2- 3 ϕ 208/240v circuits for 2- 20.7 Kw Deep Fat Fryers (stub up)
 - ④ 1- 120 volt 20amp circuit required for grease filter (wall outlet)
 - ⑤ 1- 20amp 120v circuit required for exhaust over Fryers (on roof)
 - ⑥ All circuits under hood must Shunt when Ansul for small hood is activated: French Fry dump, under counter refer, 2 Deep Fat Fryers, & grease filter.
 - ⑦ Circuit for exhaust hood does not Shunt this is a Filter hood with no wash down & is required to stay on when Ansul is activated.
 - ⑧ all stub ups for Fat Fryers 4" off finished wall & 3" above finished floor grade.
 - ⑨ 1- 120 volt 20amp circuit required for work refer.

LINE E.

- ① 1- 20amp 120 volt circuit with 2 duplex receptals required over desk.

LINE F

- ① 2- 120 volt 20amp circuits required for Soda tank system for carbonator pumps. (wall receptals)
- ② 1- 208 volt 20amp 1 ϕ circuit for Ice machine. (wall receptal)

LINE G

- ① 2 circuits needed (120 volt 20 amp) over center (width wise) Line B (one at each end of line B) For lighted menu with ^{2 toggle} switches by Desk on line E.

SPECIAL NOTES

- ① All Circuits:
120 volt are 3 wire circuits
120/208 1 ϕ are 4 wire circuits
120/208 3 ϕ are 5 wire circuits
208/240 \Rightarrow 208 1 ϕ are 3 wire circuits
208/240 \Rightarrow 208 3 ϕ are 4 wire circuits
- ② 10' Free conductor in stub ups is requested to eliminate unnecessary splicing under counters where junction boxes are not readily accessible.
- ③ request that all 120 volt power and lighting circuits throughout building have their own Neutral conductor per circuit. This is to eliminate neutral overloading which occurs ~~when~~ when more than one hot lead is used with a neutral wire. If all circuits can't be done this way it would be appreciated if all power receptals for ~~stationary~~ ^{stationary} equipment be done this way.
- ④ Additional general purpose receptals placed liberally through out building would be appreciated.

over

SPECIAL NOTES

- ⑤ Codes may require more than one stub up for circuits required on Hits 1, 2, & 3 on Line B (this will be ok just so long as they are identified & brought up in the general locations listed & meet requirements of 2" ^{MAX.} above finished floor grade with 10' Free conductor left out of stub

Area H. Freezer & Cooler

- ① Cooler - 3 ϕ 20 amp 208/230v For Compressor
1 ϕ 115 volts 15 amp For condensing coil

Freezer - 3 ϕ 208/230 volts 20 amp For Compressor
1 ϕ 208/230 volt 15 amp For condensing coil
1740w Heat Strips - same 15 amp circuit

1- 120v ^{15v} 20amp circuit for the lights in the cooler & the freezer (1 in each) & 1-120v receptacle inside freezer for heat strip on Drain

request if possible - time clocks & ^{motor} starters for both compressors

COST ESTIMATE

DATE PREPARED
10-1-87

SHEET OF

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MCB BLDG-403

ESTIMATED BY
Huffman

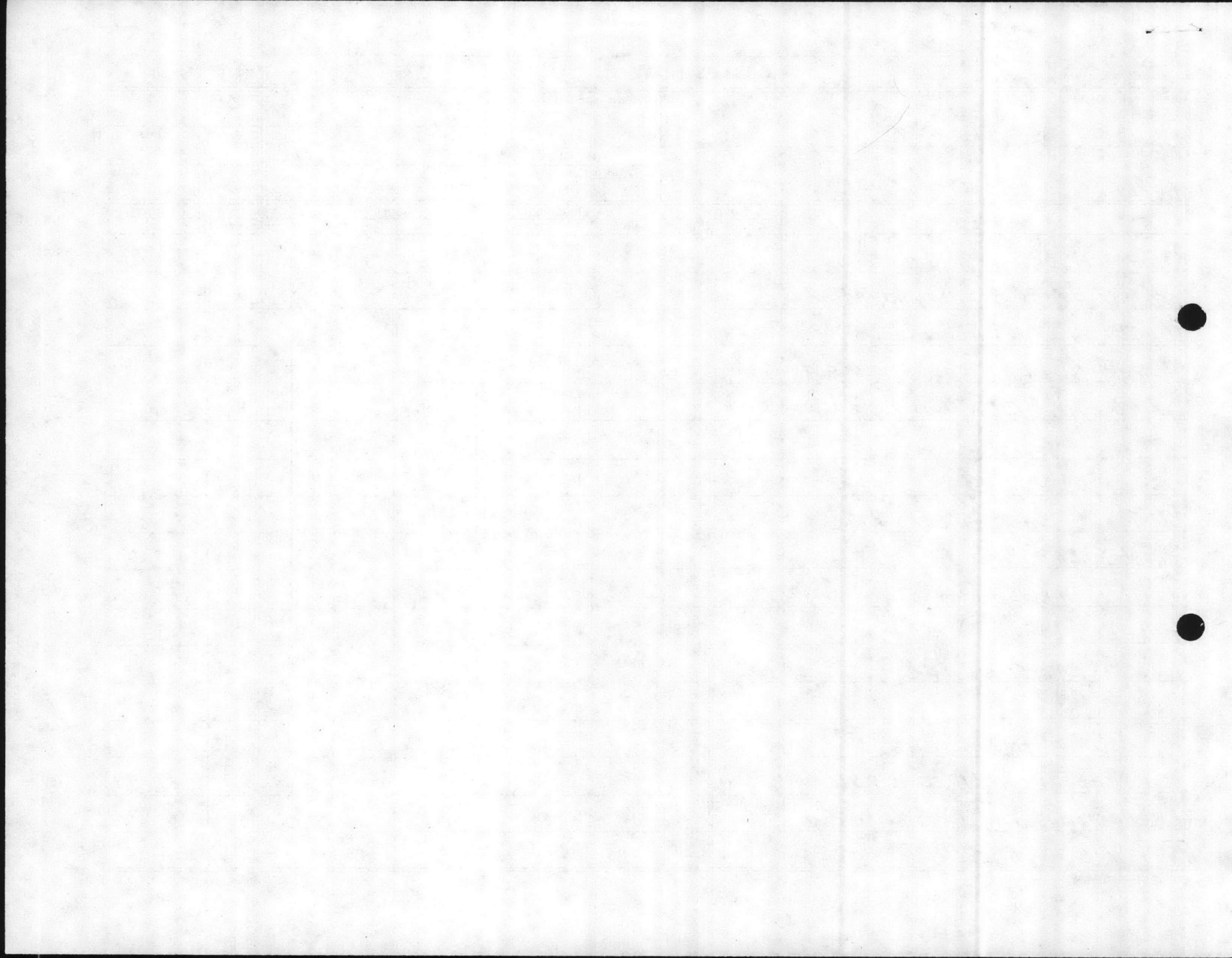
CATEGORY CODE NUMBER

REPAIRS TO HVAC AND PLUMBING.

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
DEMO ASBESTOS INSULATION AND PIPING OF STEAM AND POTABLE WATER THROUGH BUILDING AND STEAM PIT. DEMO ALL CONDENSATE PIPING AND RAIDIATORS.				675		10,200		10,875
EXISTING SNACK BAR AND BARBER SHOP AREA DEMO ALL WASTE, VENTS, DRAINS, FLOOR DRAINS, POTABLE WATER, VENT HOOD AND EXHAUST SYSTEM				—		950		950
* NOTE: SEE ATTACHED DIAGRAM FOR FAST FOOD AREA. ROUGH INS, CONNECTIONS AND EQUIPMENT TO BE FUNDED BY SPECIAL SERVICES.								



COST ESTIMATE

DATE PREPARED
9-29-87

SHEET OF

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

ESTIMATED BY

Huffman

CATEGORY CODE NUMBER

PROJECT TITLE

STATUS OF DESIGN

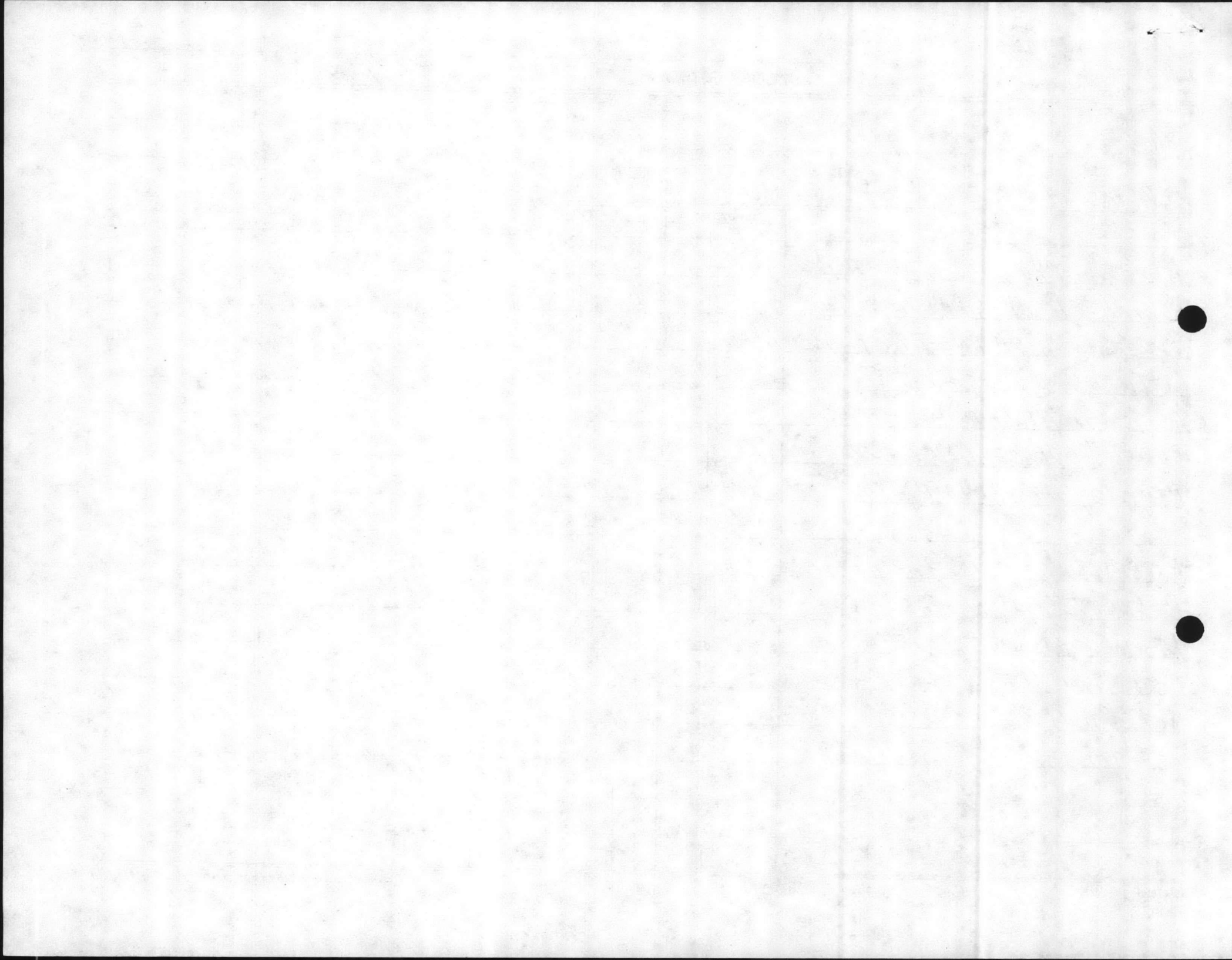
PED 30% 100% FINAL Other (Specify)

JOB ORDER NUMBER

MCB - BLDG 403

REPAIRS TO HVAC AND PLUMB.

ITEM DESCRIPTION	QUANTITY		MATERIAL COST		LABOR COST		ENGINEERING ESTIMATE	
	NUMBER	UNIT	UNIT COST	TOTAL	UNIT COST	TOTAL	UNIT COST	TOTAL
HEADS - PROVIDE MALE AND FEMALE HEADS. PROVIDE ALL NEW STATE OF THE ART PLUMBING FIXTURES, VALUES AND TRIM AS PER NATIONAL PLUMBING CODE. REPLACE ALL WATER PIPING AND INSULATE.				1,728		1,300		3,028
EXTERIOR CAN WASH AREA - RELOCATE AND REPLACE FLOOR DRAIN. PROVIDE ONE EACH COLD AND HOT FREEZE PROOF HYDRANTS.				670		780		1,450



3

COST ESTIMATE

DATE PREPARED
9-29-87

SHEET OF

ACTIVITY AND LOCATION

CONSTRUCTION CONTRACT NO.

IDENTIFICATION NUMBER

MCB BLDC - 403

ESTIMATED BY

Huffman

CATEGORY CODE NUMBER

PROJECT TITLE

REPAIRS TO HUAC AND PLBC.

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
RELOCATE EXISTING AIR HANDLER AS PER DIAGRAM. PROVIDE STEAM HEATING COIL AND CONTROLS IN NEW DUCT SYSTEM. DEMO ALL EXISTING DUCT AND INSTALL INSULATED DUCT IN ATTIC FOR COMPLETE BUILDING.				5,717		1,8093		23,810
STEAM PIT AREA - REPLACE ALL PIPING, STEAM TRU STATION, CONDENSATE AND SUMP PUMP, ELECTRIC HOT WATER HEATER.				3,612		950		4,562
TOTAL				12,402		32,273		44,675

