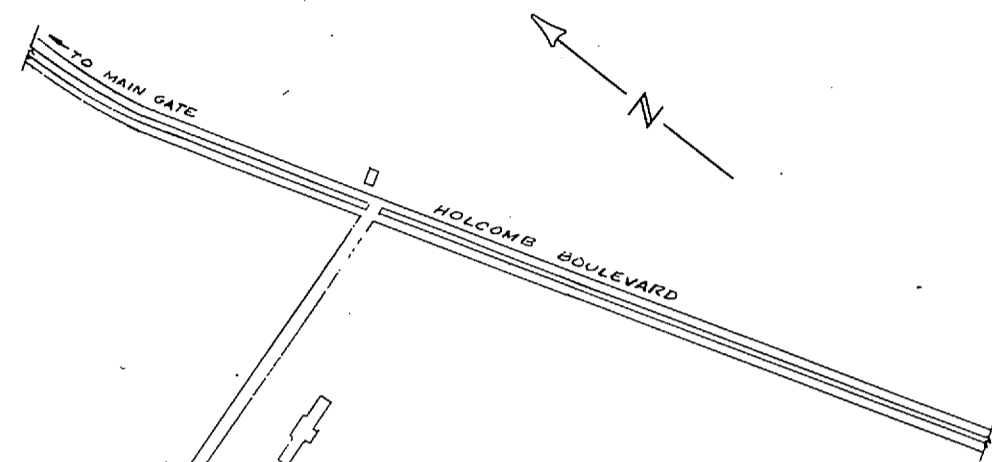
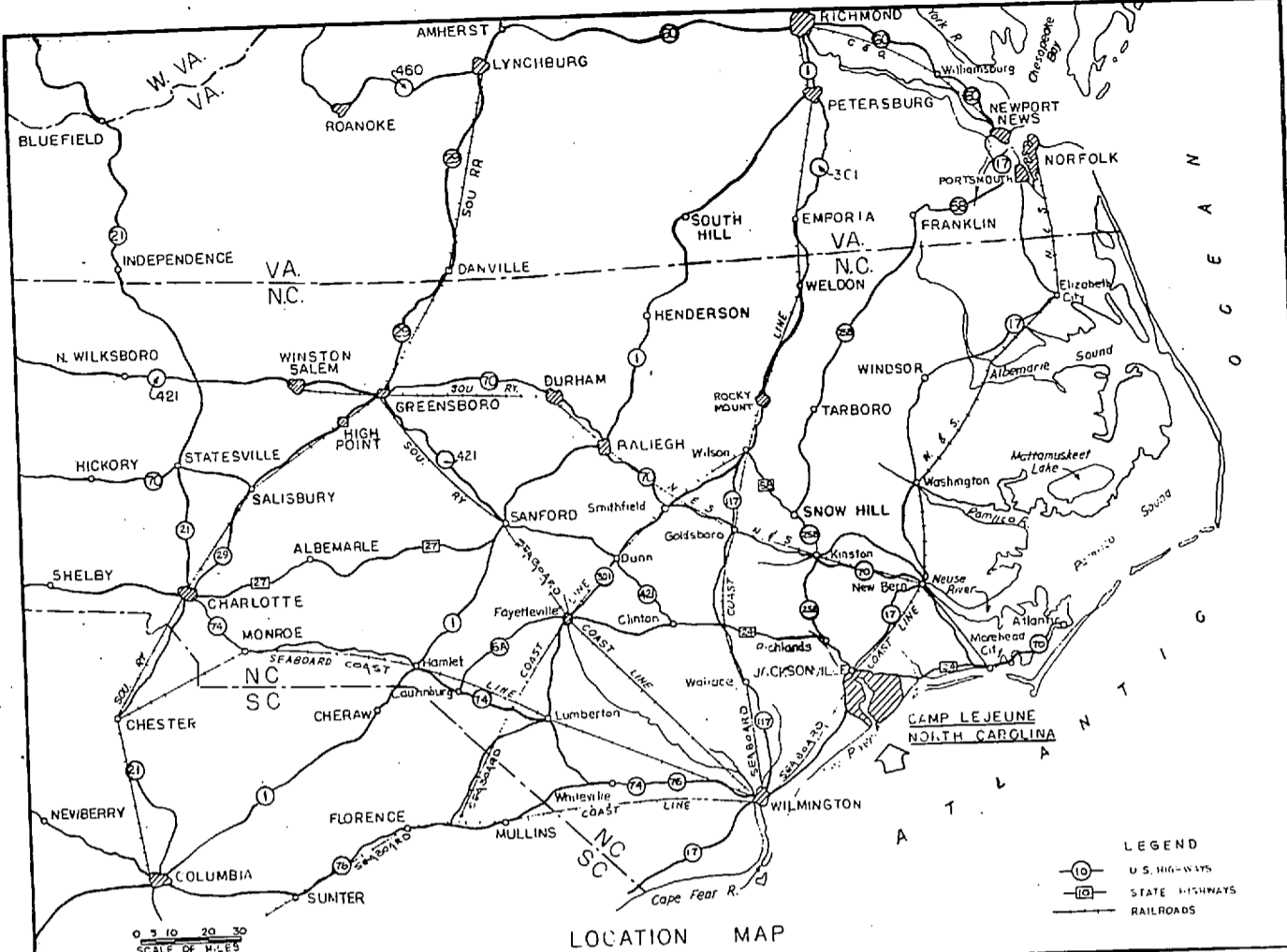
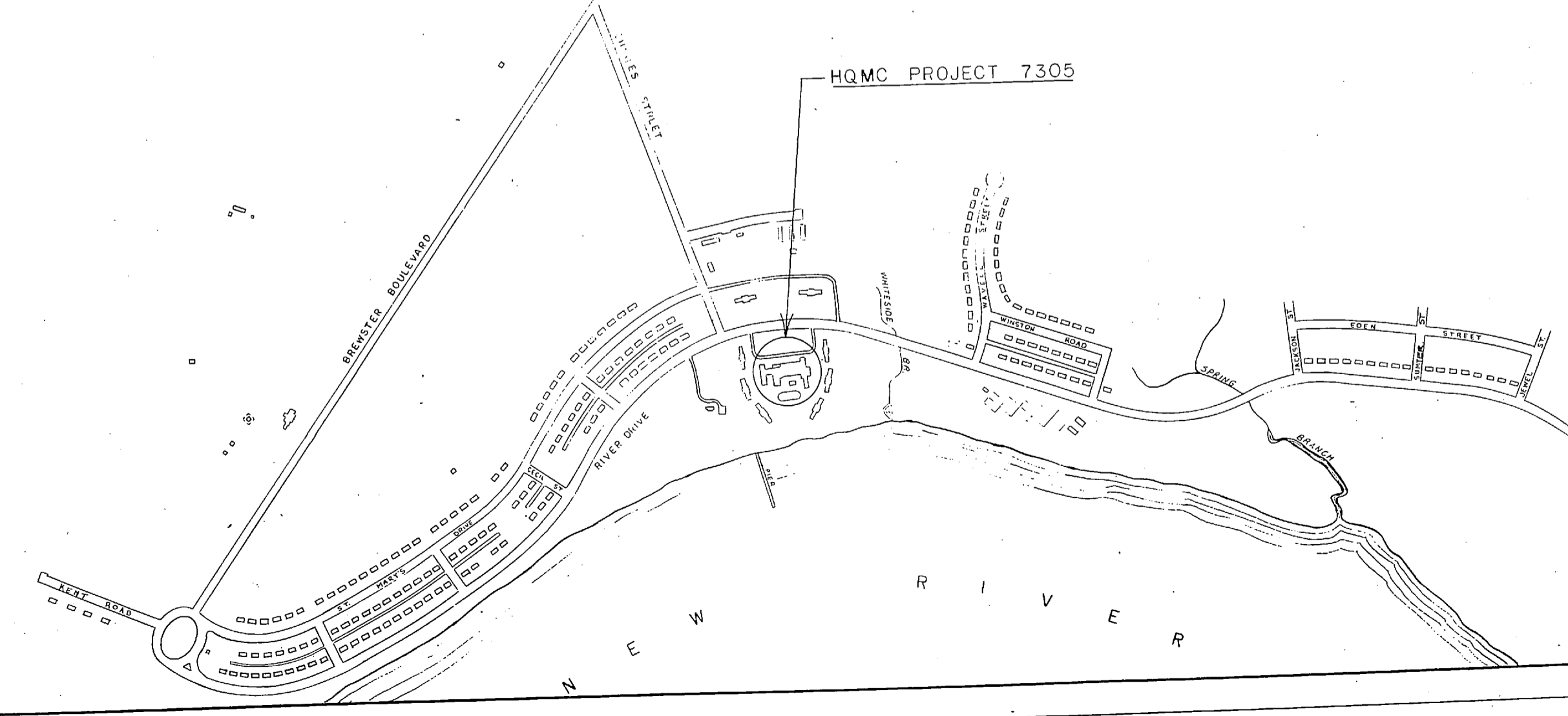


REVISIONS		
SYM	DESCRIPTION	DATE APPROVED



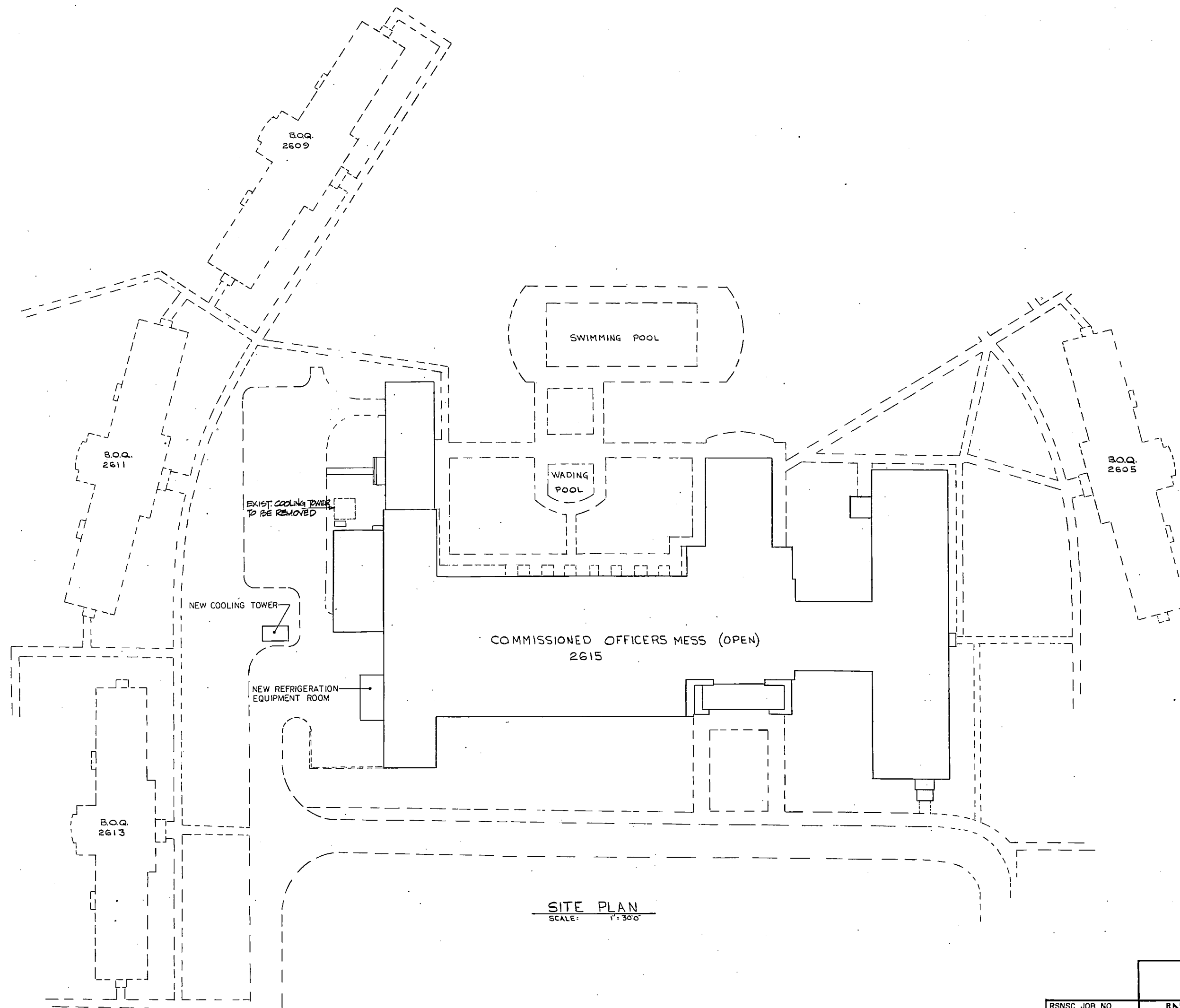
INDEX OF DRAWINGS

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4030242	C2	SITE PLAN
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4030244	A2	PARTIAL FIRST FLOOR PLAN, SHEET 2 OF 2
4030245	A3	SECOND FLOOR & PARTIAL ATTIC PLAN
4030246	A4	PARTIAL ATTIC PLAN & SECTIONS
4030247	A5	ROOF PLAN
4030248	A6	CEILING PLAN & MISC. DETAILS
4030249	A7	ELEVATIONS
4030250	S1	REFRIGERATION ROOM & BUILDING DETAILS
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4030275	E1	ELECTRICAL - ONE LINE DIAGRAM
4030276	E2	ELECTRICAL - POWER PLAN, SHEET 1 OF 4
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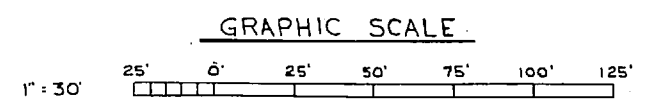


RSNSC JOB NO. 6-04B-1B RSNSC DWG. NO. 72-3-9-01		ENOONAN GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DESIGNER: DR. CHAS. CHK. #20		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA MARINE CORPS BASE CAMP LEJEUNE, N.C.	
PROJ. MGR. KIDD CH. ENGR. BOYD SUBMITTED BY: J. V. P. 4/22/77 DATE: 4/22/77 FIRM MEMBER: RVD J.F.S. PRINCIPAL NO. DIR. REV.		MARINE CORPS BASE REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615 LOCATION PLAN		SIZE: F CODE IDENT NO.: 80091 NAVFAC DRAWING NO.: 4030241 CONSTR CONTR NO.: N62470-77-B-2563 SPEC05-77-2563 SHEET 1 OF 42 SCALE AS NOTED EFD DWG. NO.	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



SITE PLAN
SCALE: 1" = 30'



RSNSC JOB NO. 6-048-18		GREENVILLE SOUTH CAROLINA ENGINEERS & ARCHITECTS		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
RSNSC DWG. NO. 72-3-9-02		BNOONANI		ATLANTIC DIVISION	
PROJ. MGR. KIDD		CHK. RCP		NAVAL STATION MARINE CORPS BASE	
SUPERVISOR		DATE		CAMP LEJEUNE, N.C.	
FIRM MEMBER		RVD. 5/22/71		REPLACE HEATING AND AIR CONDITIONING	
EFD: FP		DIR. 5/22/71		COM (O), BLDG. 2615	
APPROVER		DATE		SITE PLAN	
OFFICER IN CHARGE		11/21/70		NAVFAC DRAWING NO. 4030242	
APPROVER		DATE		CONSTR CONTR NO. N6 2470-77-B-2563	
EFD FOR COMMANDER, NAVFAC		10/11/70		SCALE AS NOTED	
				SPEC05-77-2563 SHEET 2 OF 42	
				EFD DWG. NO.	

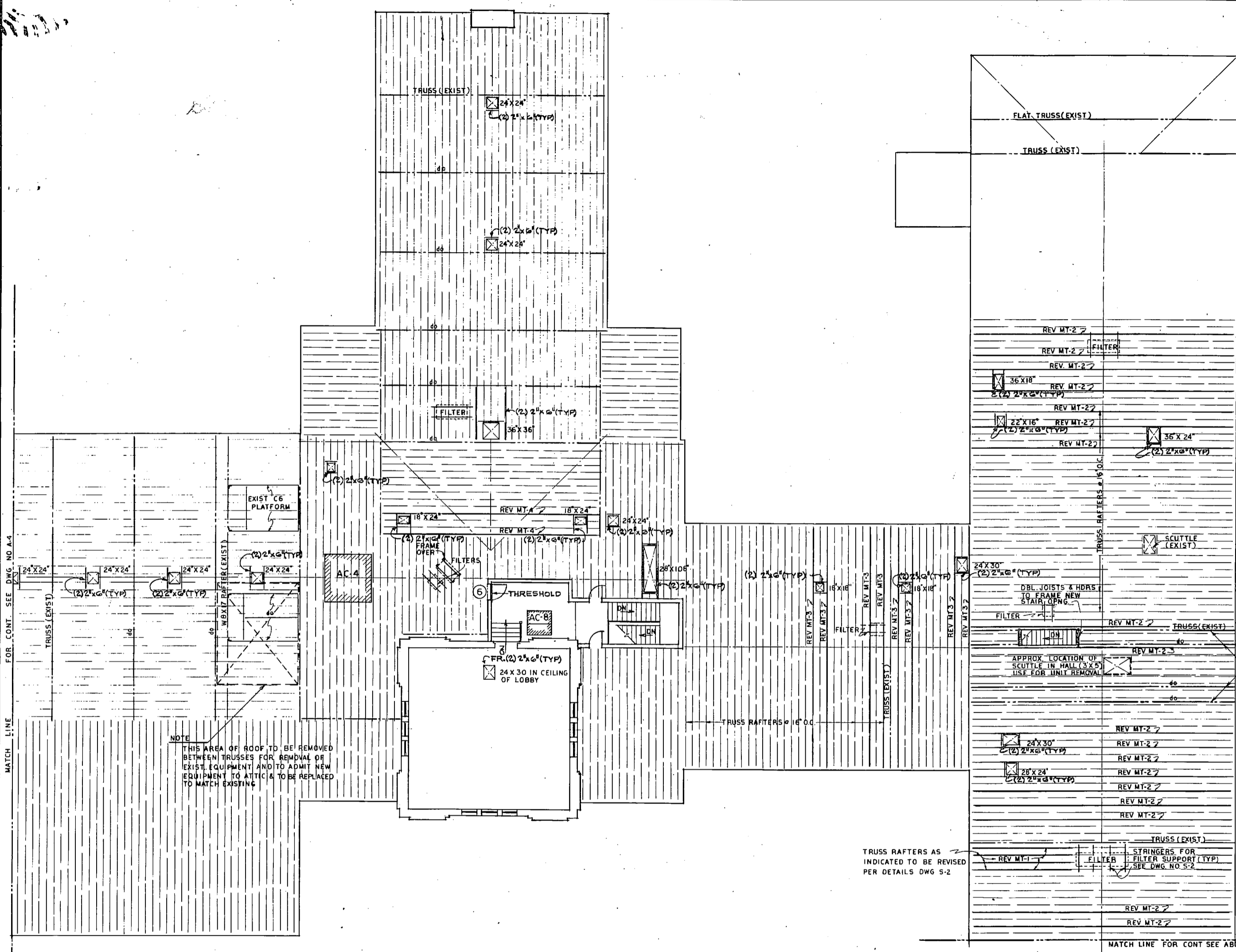
C-2



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

GENERAL NOTES

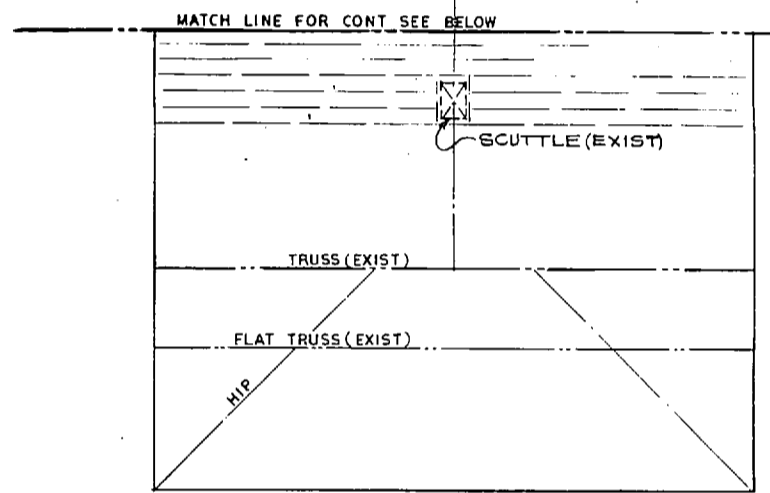
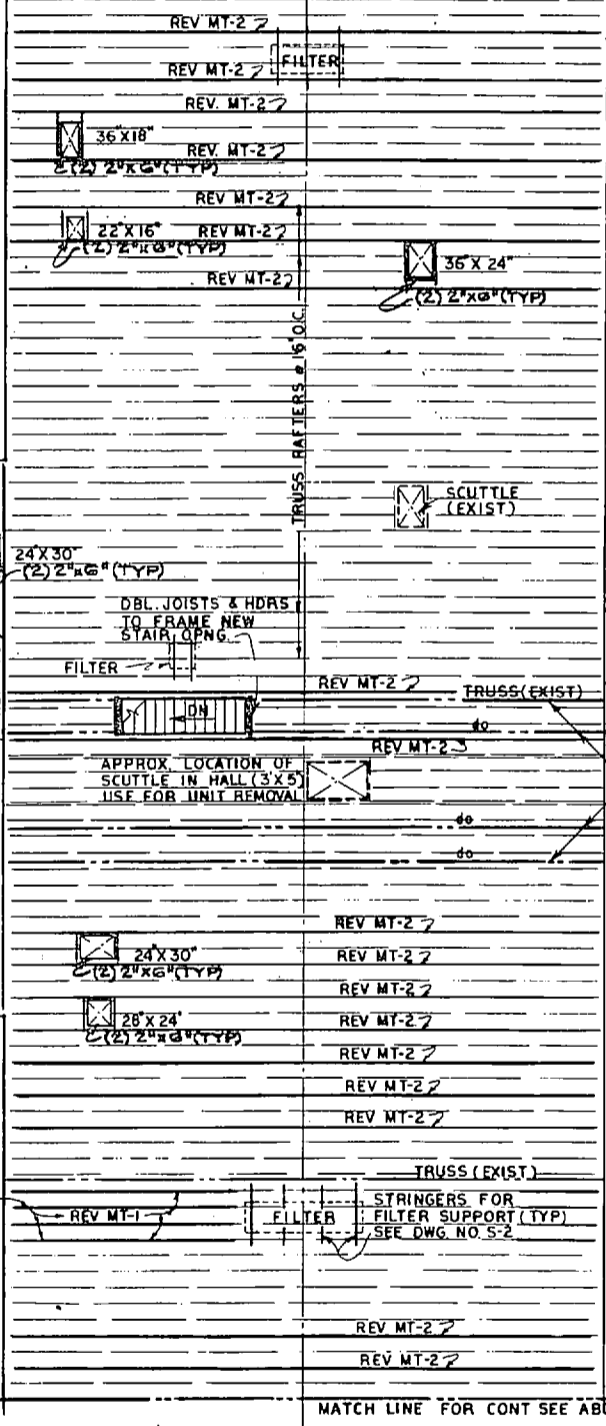
- 1 OPENINGS SHOWN ARE THOSE REQUIRING REVISIONS TO EXISTING TRUSS RAFTERS AND JOISTS
- 2 DIMENSIONS SHOWN REFER TO DUCT SIZE
- 3 ALL OPENINGS SHOULD BE ADJUSTED TO FIT EXIST. JOIST PLACEMENT
- 4 FOR TRUSS REVISIONS SEE DWG NO. S-2
- 5 ALL HEADERS WILL BE DOUBLE AND OF THE SAME SIZE OF CEILING JOISTS



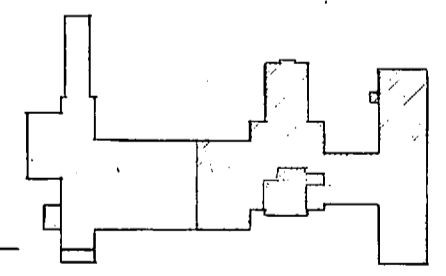
MATCH LINE FOR CONT. SEE DWG. NO. A-4

NOTE
THIS AREA OF ROOF TO BE REMOVED BETWEEN TRUSSES FOR REMOVAL OF EXIST. EQUIPMENT AND TO ADMIT NEW EQUIPMENT TO ATTIC & TO BE REPLACED TO MATCH EXISTING

TRUSS RAFTERS AS INDICATED TO BE REVISED PER DETAILS DWG S-2

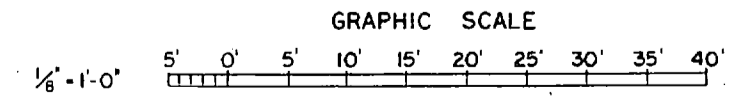


NOTE: THESE FOUR TRUSS WERE ADDED FOR EQUIPMENT SUPPORT AND MAY BE CUT AFTER A.C. UNITS ARE REMOVED.



KEY PLAN

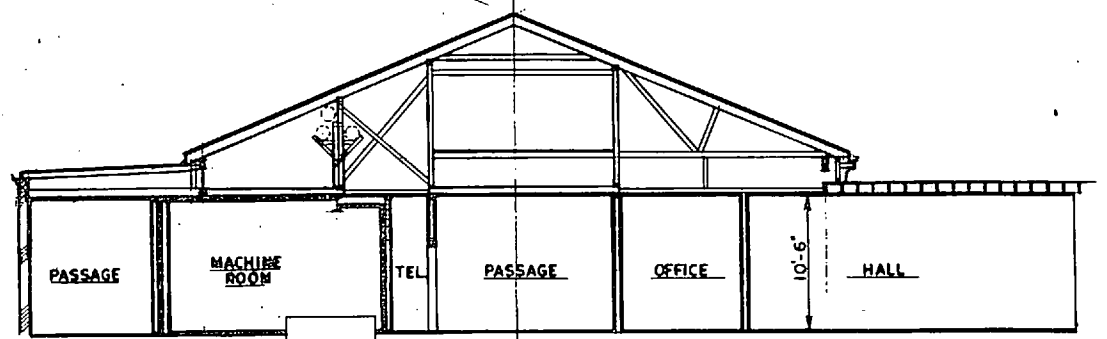
SECOND FLOOR & PARTIAL ATTIC PLAN
SCALE: 1/8" = 1'-0"



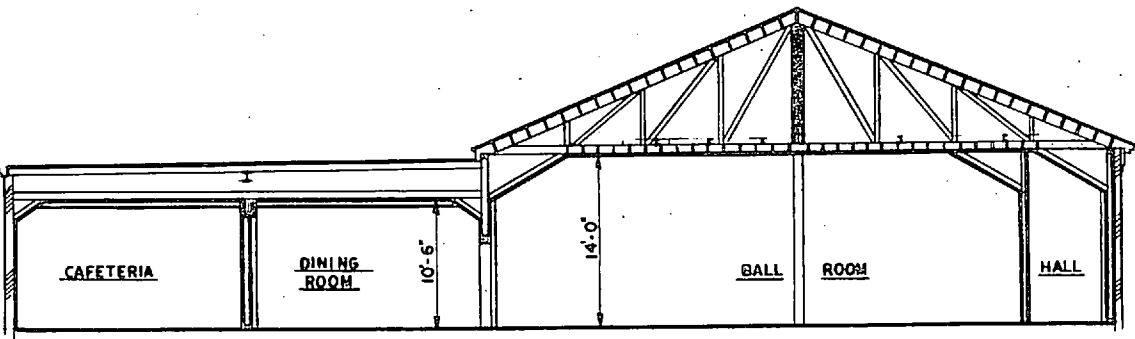
RSNCG JOB NO. 6-088-18 RSNCG DWG. NO. 72-1-0-05 REAL:	NOONAN GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DSSN LOWES/DLOWES CONTRACT	DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N. C.	A-3
	PROJ. MOR. ECD CH. ENGR. <i>W. J. V.</i> SUBMITTED BY <i>D. J. V.</i> DATE <i>10/27/77</i> FIRM MEMBER <i>W. J. V.</i> RVD. <i>W. J. V.</i> EFF. FR. <i>W. J. V.</i> DIR. <i>W. J. V.</i>	REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615 SECOND FLOOR & PARTIAL ATTIC PLAN	SIZE CODE IDENT NO. NAVFAC DRAWING NO. F 80091 4030245



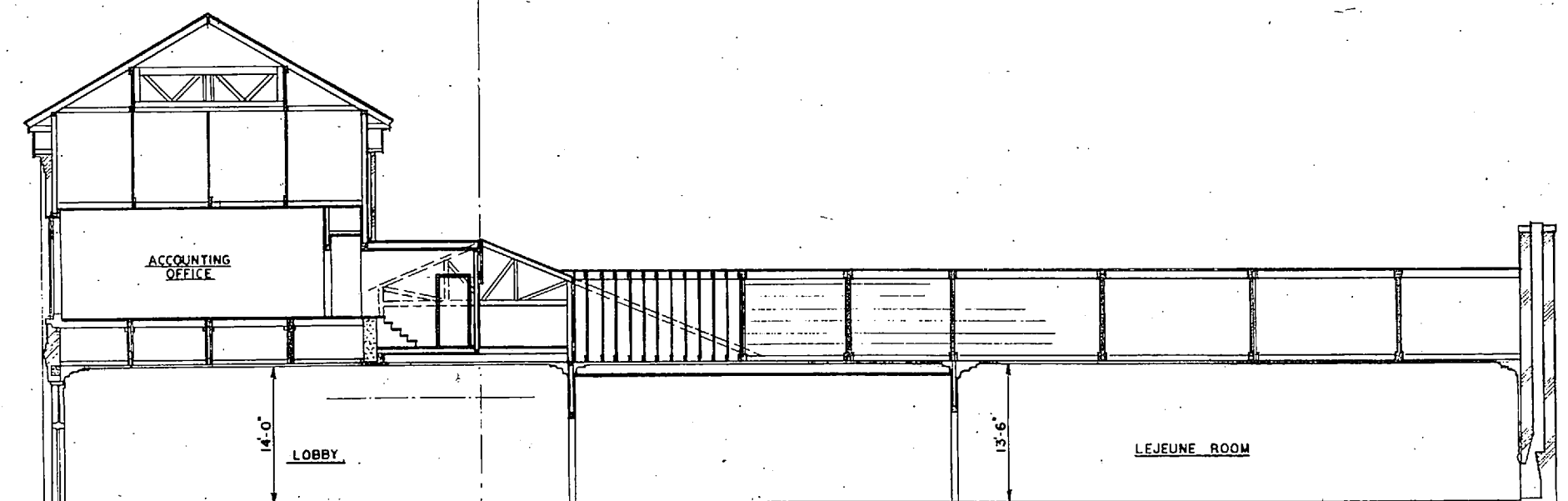
REVISIONS		
BY	DESCRIPTION	DATE APPROVED



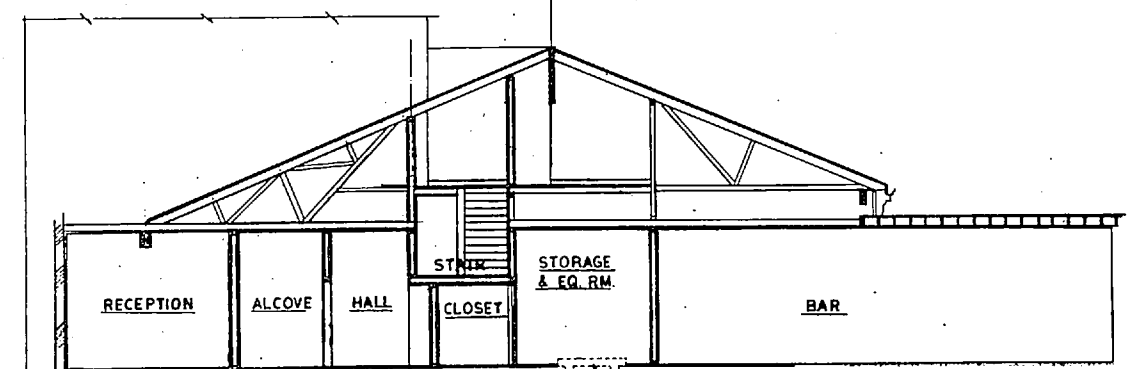
SECTION 4
SCALE: 1/8" = 1'-0"



SECTION 4
SCALE: 1/8" = 1'-0"

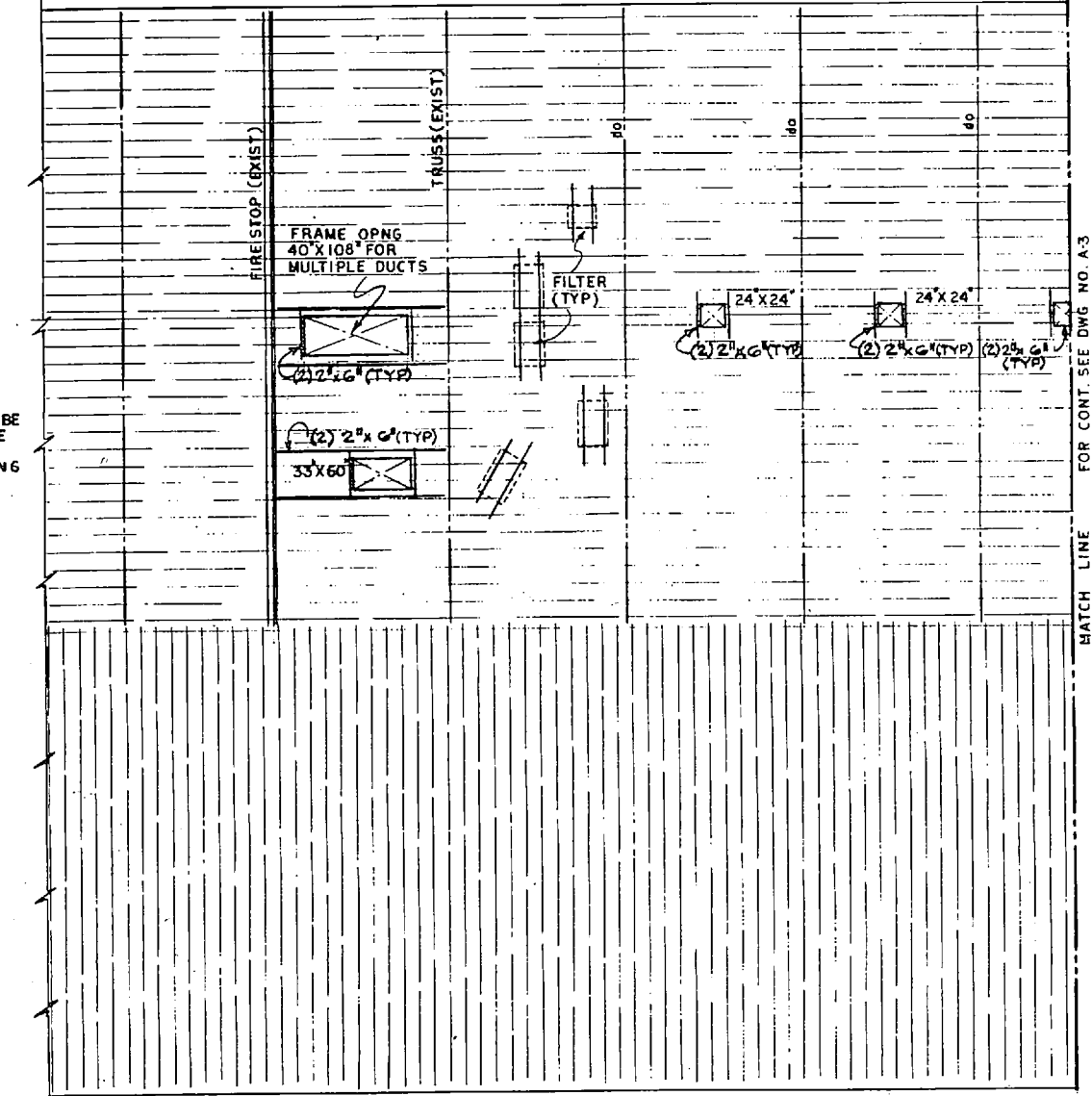


SECTION 5
SCALE: 1/8" = 1'-0"



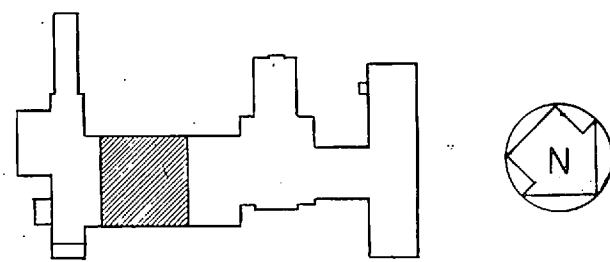
SECTION 6
SCALE: 1/8" = 1'-0"

NOTE
THESE SECTIONS ARE SHOWN FOR CLARITY

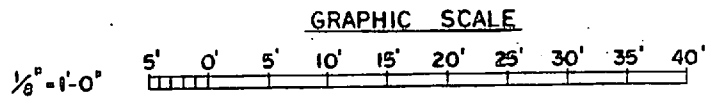


PARTIAL ATTIC PLAN
SCALE: 1/8" = 1'-0"

NOTE
ALL HEADERS WILL BE DOUBLE AND OF THE SAME SIZE AS EXISTING CEILING JOISTS



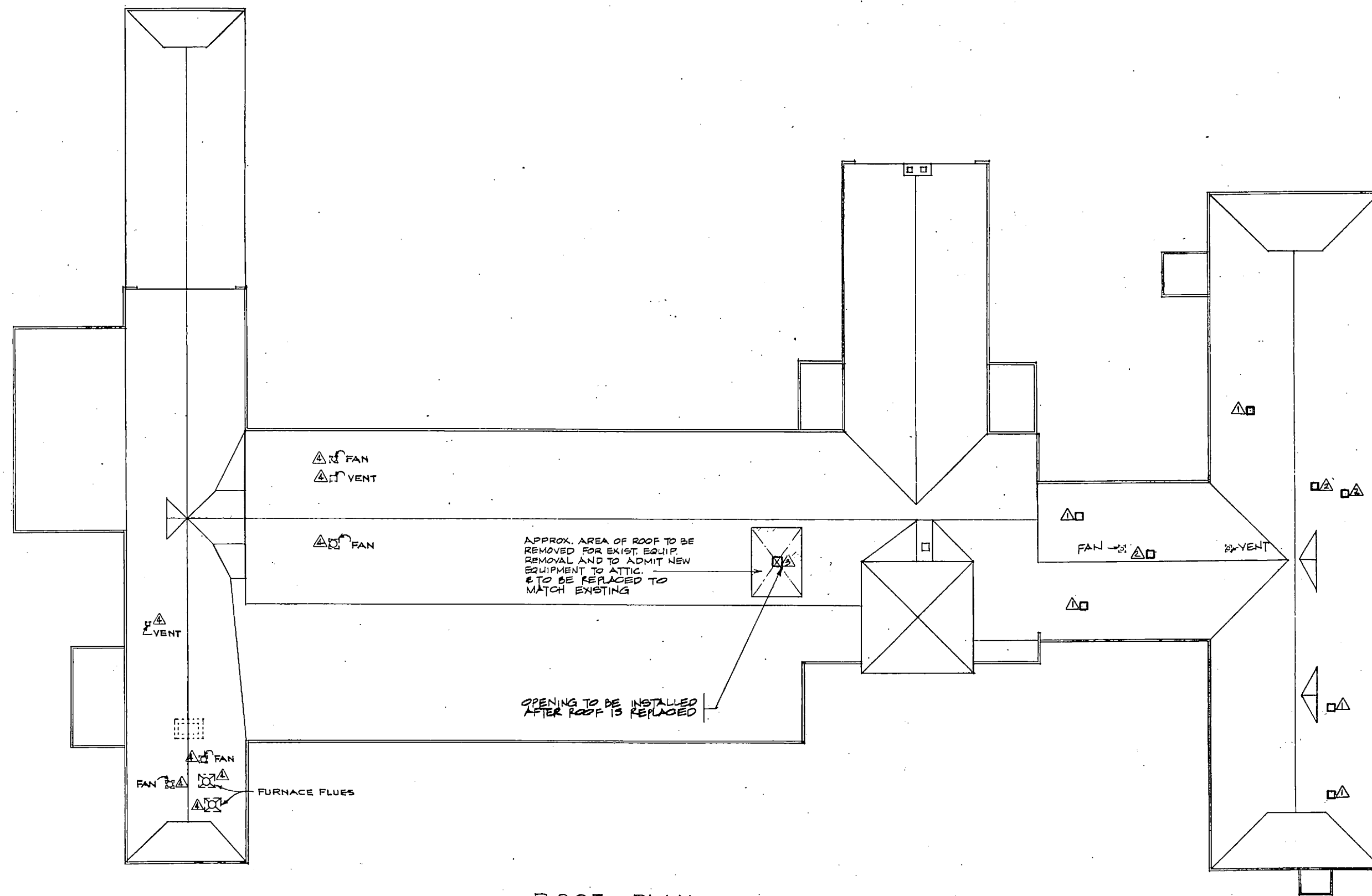
KEY PLAN



RSNSC JOB NO. 8-068-18 RSNSC DWG. NO. 72-1-0-06		NOONAN GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DAN LOWES OR LOWES CHESTNUT		DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N. C.	
SEAL: 		PROJ. NO. 60028 EMBL. 2010 DESIGNED BY: <i>[Signature]</i> DATE: 4/13/77 CHECKED BY: <i>[Signature]</i> DATE: 4/13/77 APPROVED BY: <i>[Signature]</i> DATE: 4/13/77 FOR TOP COMMANDER, NAVY		REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG 2615 PARTIAL ATTIC PLAN & SECTIONS	
APPROVED: <i>[Signature]</i> DATE: 4/13/77 FOR TOP COMMANDER, NAVY		SIZE: F CODE IDENT NO.: 80091	NAVFAC DRAWING NO. 4030246 CONSTR. CONTR. NO. JIG 2470-77-B-2563 SPEC 05-77-2563 SHEET 8 OF 42 EFD DWG. NO.		

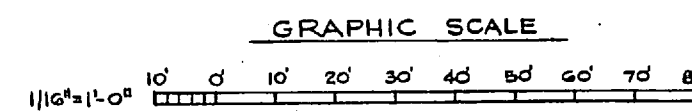
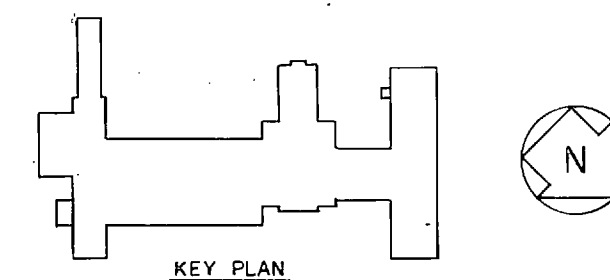
A-4

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



ROOF PLAN
SCALE 1/16"=1'-0"

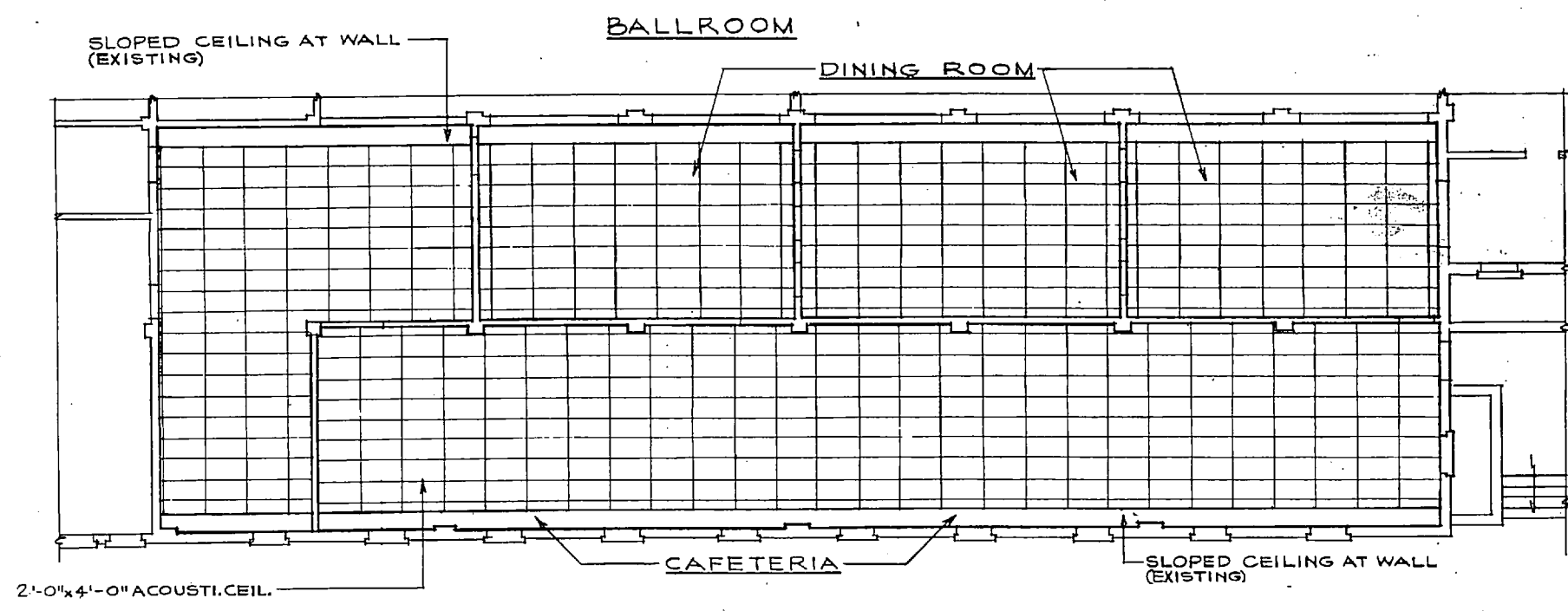
ROOF OPENING SCHEDULE			
MARK	SIZE	DESCRIPTION	REMARKS
△	14' x 14'	EXHAUST	NEW
△	10' x 10'	EXHAUST	NEW
△	20' x 20'	EXHAUST	NEW
△	EXISTING	EXISTING	



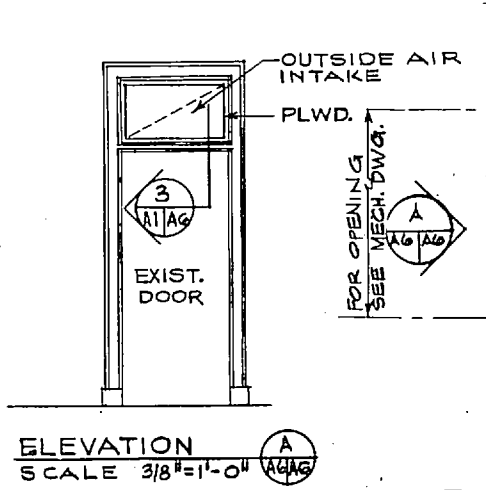
RSNSC JOB NO. 6-048-18 RSNSC DWG. NO. 72-1-0-07		NOONAN GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DR. HUBERT H. HUEY, CHIEF OF FIRM		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA MARINE CORPS BASE CAMP LEJEUNE, N.C.	
PROJECT NO. 4030247 DRAWING NO. 72-1-0-07 DATE 4/24/77 BY [Signature] VP CHECKED [Signature]		PROJECT NO. 4030247 DRAWING NO. 72-1-0-07 DATE 4/24/77 BY [Signature] VP CHECKED [Signature]		REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615 ROOF PLAN	
APPROVED BY [Signature] DATE 4/24/77 OFFICER IN CHARGE		APPROVED BY [Signature] DATE 4/24/77 ENGINEER		SIZE CODE IDENT. NO. NAVFAC DRAWING NO. F 80091 4030247	
SPEC. FOR CONSTRUCTION, NAVFAC		SCALE AS NOTED		CONSTR. CONTR. NO. N62470-77-B-2563 SPEC. 05-77-2563 SHEET 7 OF 42	

A-5

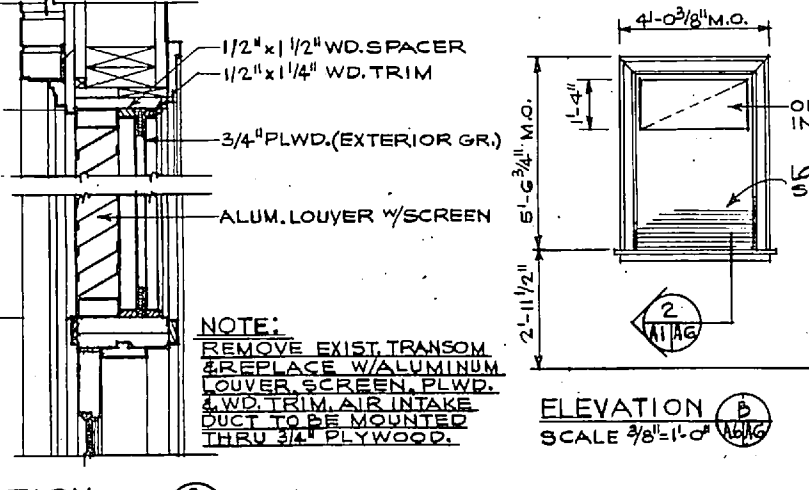
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



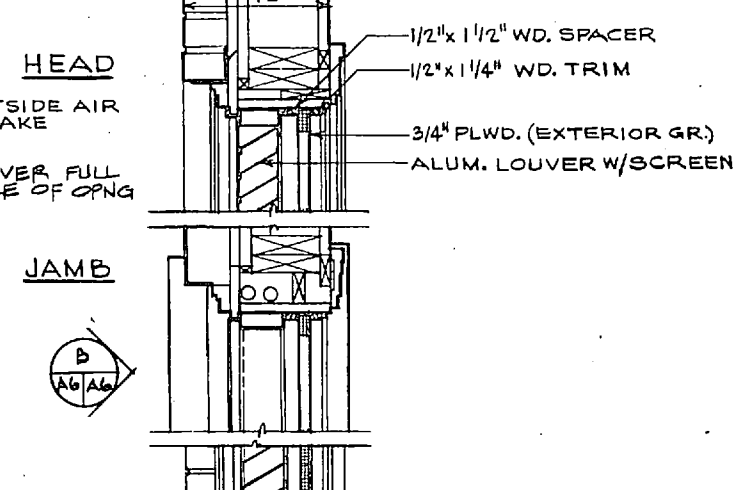
REFLECTED CEILING PLAN
SCALE 1/8" = 1'-0"



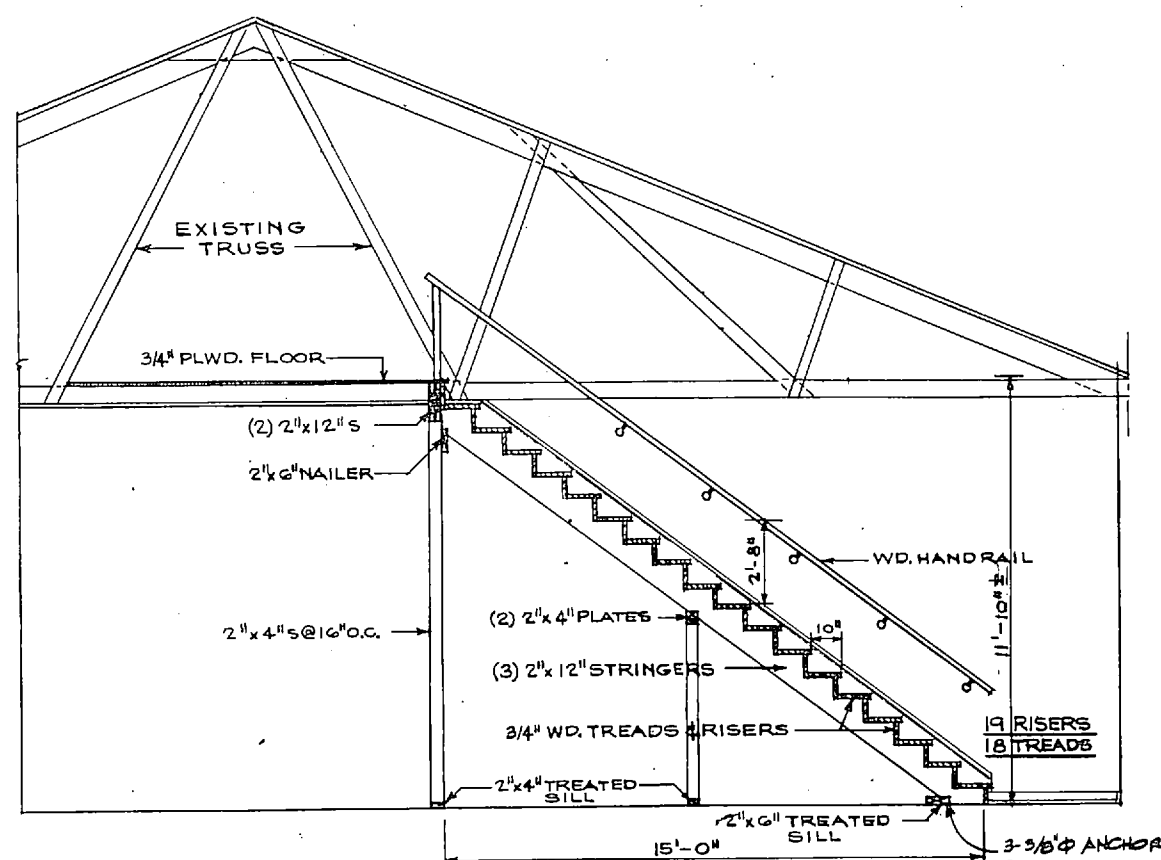
ELEVATION A
SCALE 3/8" = 1'-0"



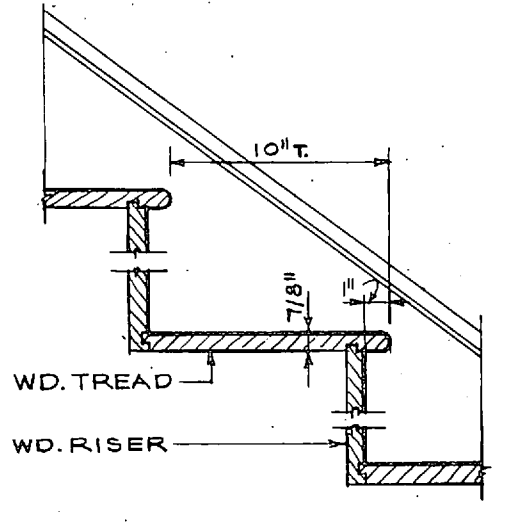
SECTION 3
SCALE 1 1/2" = 1'-0"



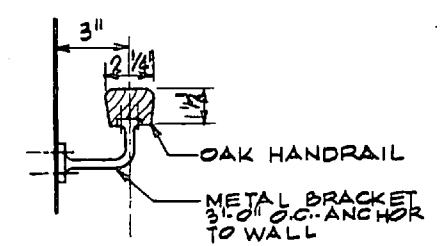
SECTION 2 LOUVER & AIR INTAKE
SCALE 1 1/2" = 1'-0"



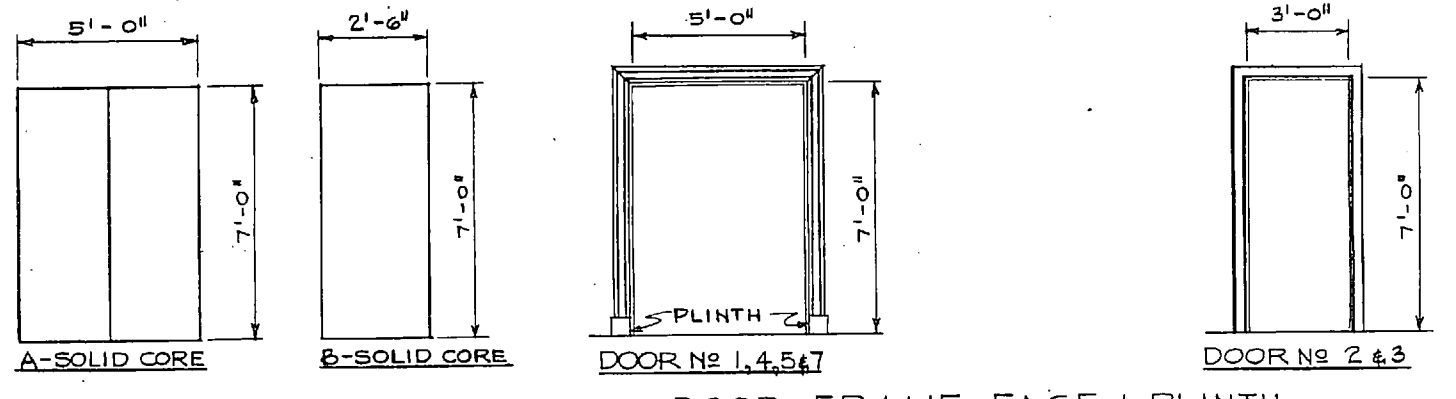
SECTION 1 THRU STAIR TO ATTIC
SCALE 3/8" = 1'-0"



DETAIL STAIR TREAD & RISER
SCALE 3" = 1'-0"

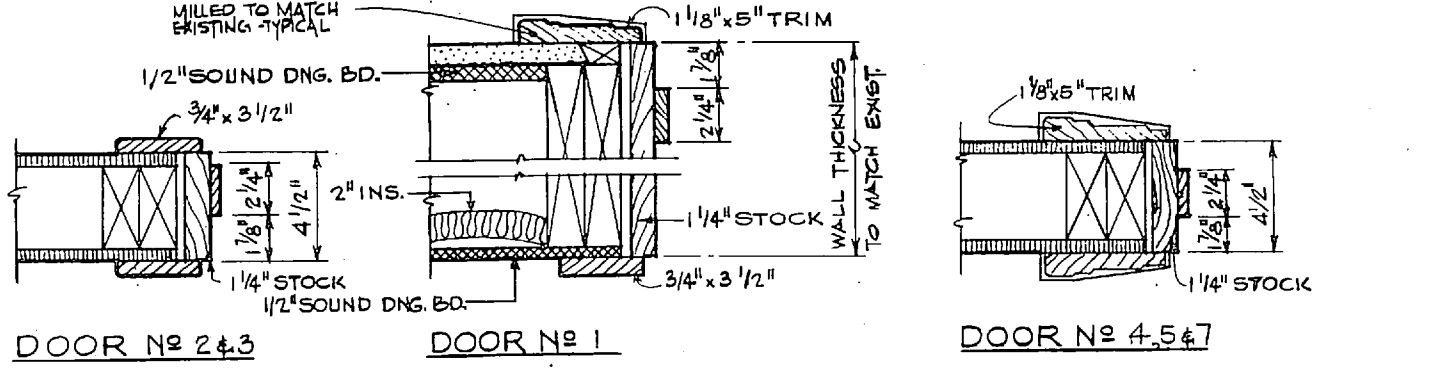


DETAIL - HANDRAIL & SUPPORT
SCALE 3" = 1'-0"



DOOR TYPES
SCALE 3/8" = 1'-0"

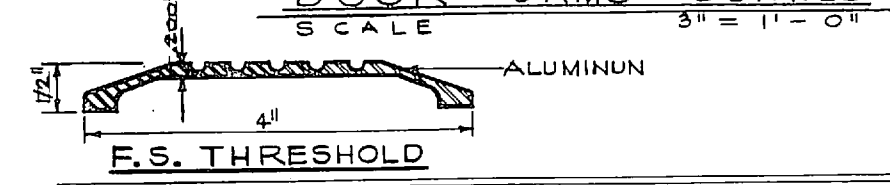
DOOR FRAME-FACE & PLINTH
SCALE 3/8" = 1'-0"



DOOR NO 2 & 3

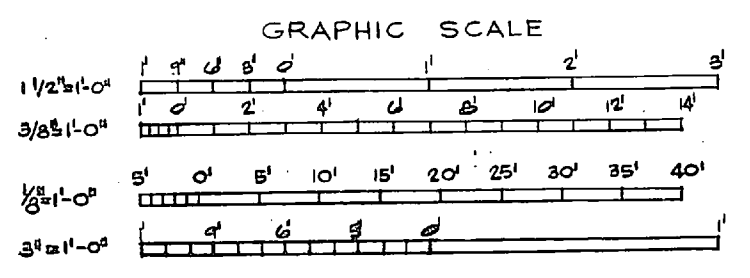
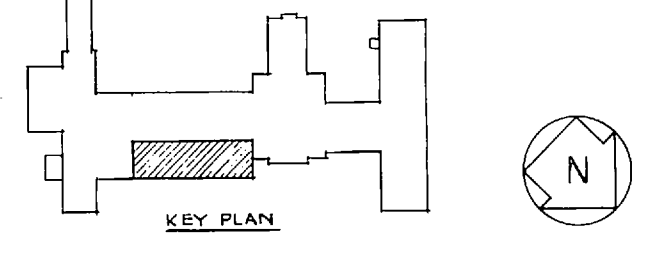
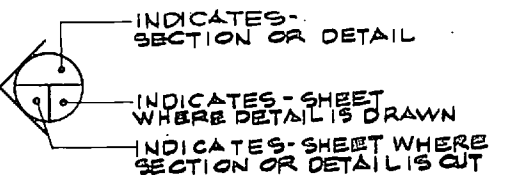
DOOR NO 1

DOOR NO 4, 5 & 7



F.S. THRESHOLD

NEW DOOR SCHEDULE					
MARK	SIZE	TYPE	THRESH.	REMARKS	
1	(2) 2-6 x 7-0 x 1 3/4	A - FLUSH	ALUMINUM	KITCHEN TO EQUIPT. ROOM	
2	3-0 x 7-0 x 1 3/4	B - FLUSH	ALUMINUM	STAIR TO ATTIC	
3	3-0 x 7-0 x 1 3/4	B - FLUSH	---	CLOSET TO UNDERSTAR	
4	(2) 2-6 x 7-0 x 1 3/4	A - FLUSH	---	HALL TO EQUIPT ROOM	
5	(2) 2-6 x 7-0 x 1 3/4	A - FLUSH	---	BAR TO EQUIPT ROOM	
6	8-0 x 7-0 x 1 3/4	B - FLUSH	ALUMINUM	SECOND FLOOR TO ATTIC	
7	(2) 3-0 x 7-0 x 1 3/4	A - FLUSH	---	BALLROOM TO SERVICE CORRIDOR	
8	(2) 4-0 x 9-0 x 1 3/4	A - FLUSH	---	REFRIGERATION ROOM	
9	4-0 x 9-0 x 1 3/4	B - FLUSH	---	REFRIGERATION ROOM	



RSNSC JOB NO. 6-048-18
RSNSC DWG. NO. 72-1-0-08

INOONANI
GREENVILLE SOUTH CAROLINA
ENGINEERS & ARCHITECTS

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
ATLANTIC DIVISION
NAVAL STATION NORFOLK, VIRGINIA

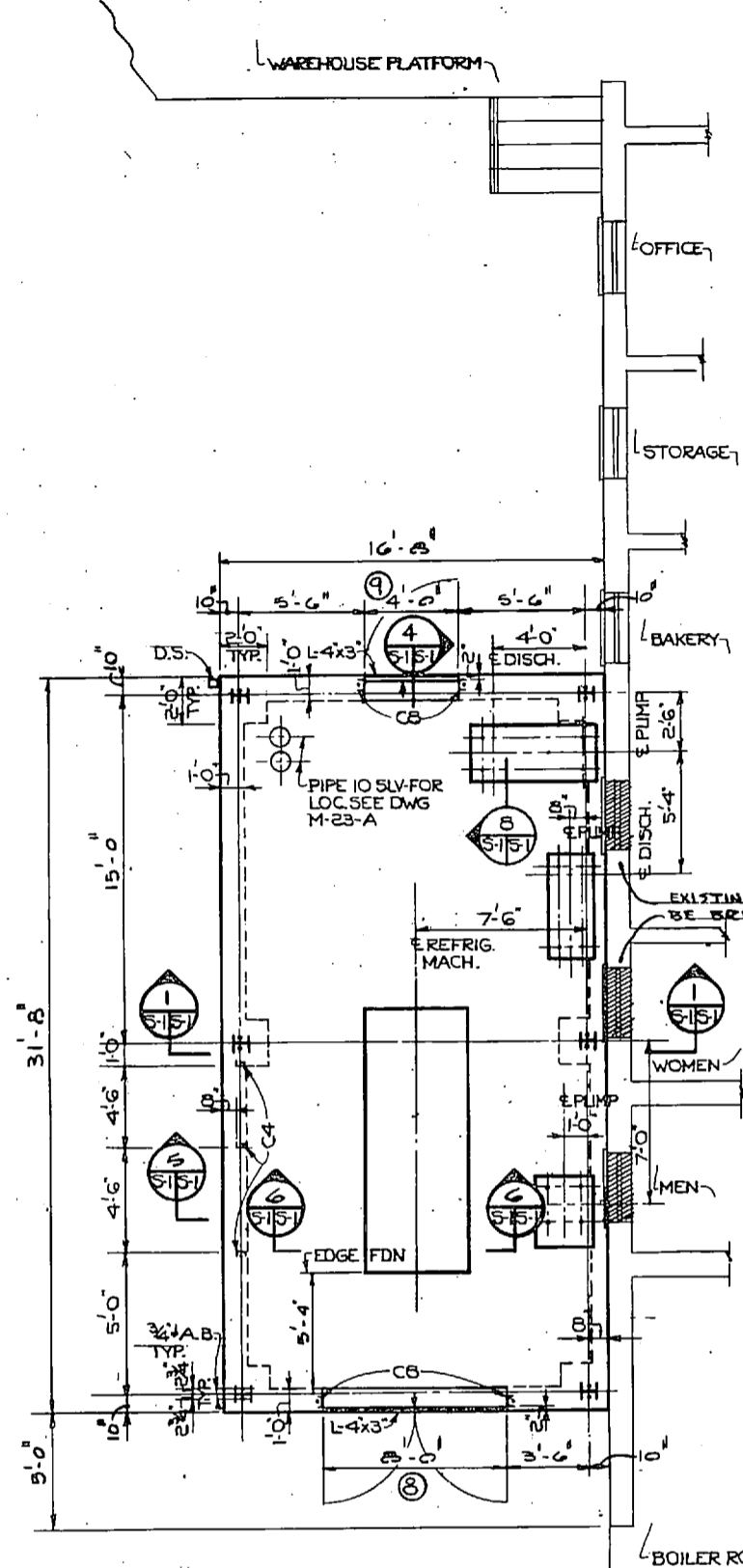
MARINE CORPS BASE CAMP LEVEUNE, N.C.
REPLACE HEATING AND AIR CONDITIONING
COM (0), BLDG. 2615
CEILING PLAN & MISC. DETAILS

APPROVED: [Signature] DATE: 4/22/72
OFFICE IN CHARGE: [Signature] DATE: 10/17/74

SIZE: F CODE IDENT NO. 80091 NAVFAC DRAWING NO. 4030248
CONTRACTOR CONTR. NO. N62470-77-B-2563
SCALE AS NOTED SPEC 05-77-2563 SHEET 8 OF 42

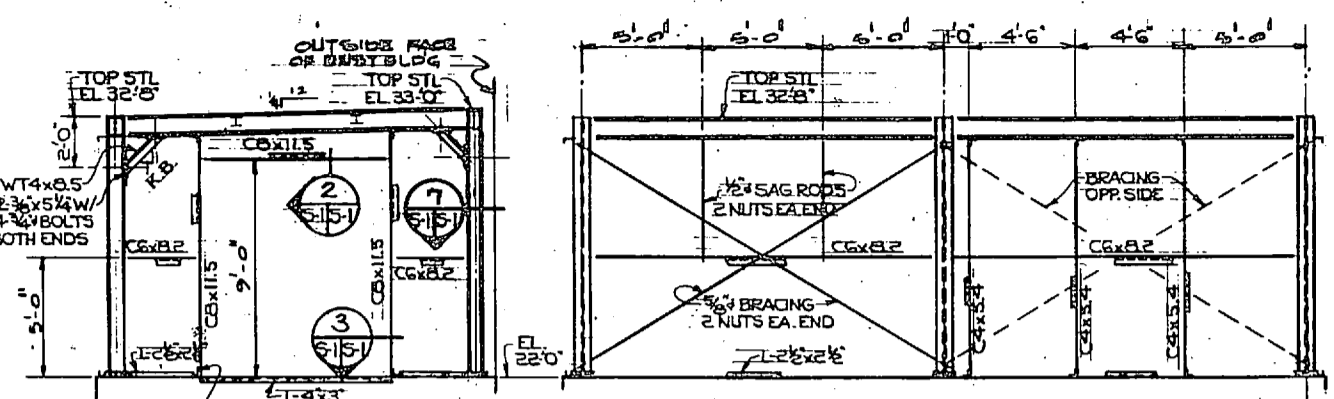
A-6

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

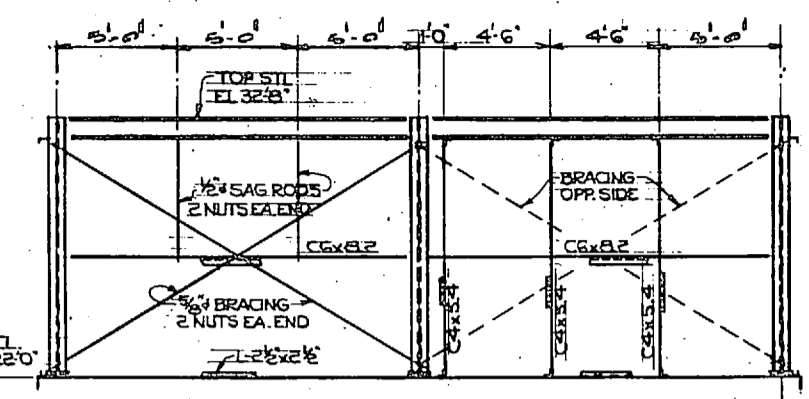


Fdn & Floor Plan
SCALE: 1/4" = 1'-0"

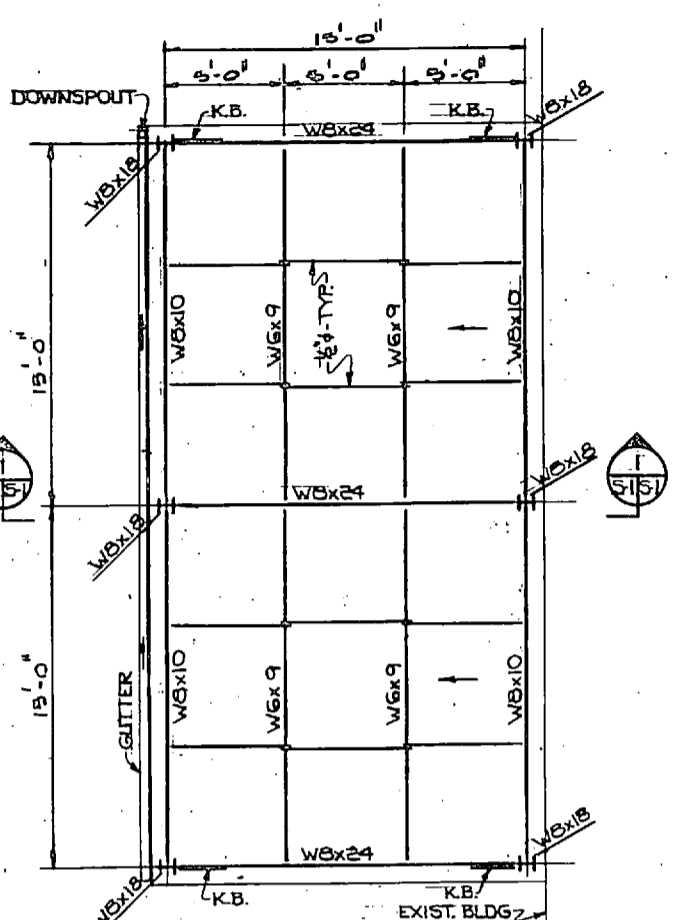
(FOR INFORMATION NOT SHOWN SEE DWG M-23-A)



NORTH ELEVATION
OPPOSITE END SIMILAR
SCALE: 1/4" = 1'-0"

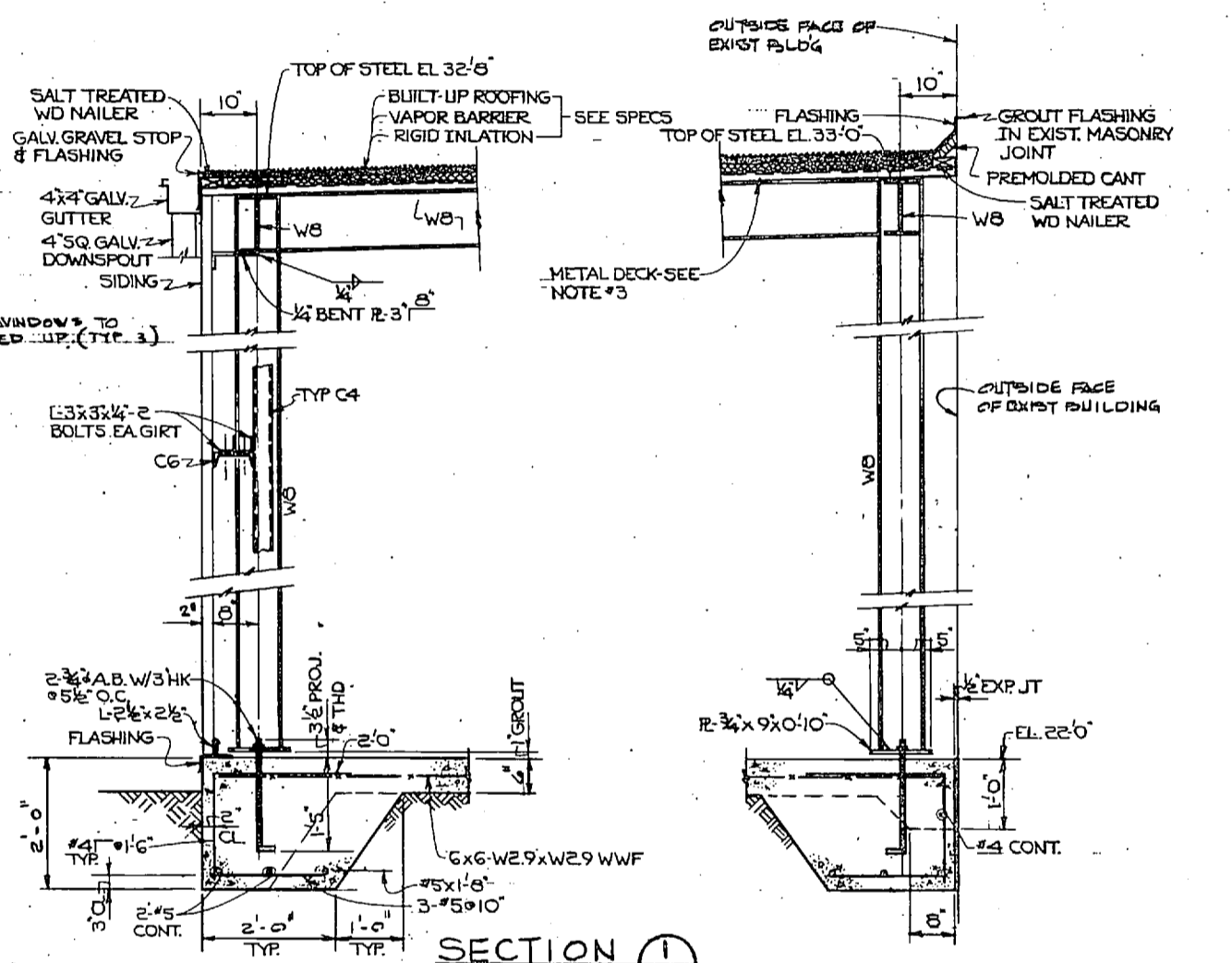


EAST ELEVATION
OPPOSITE SIDE SIMILAR
SCALE: 1/4" = 1'-0"

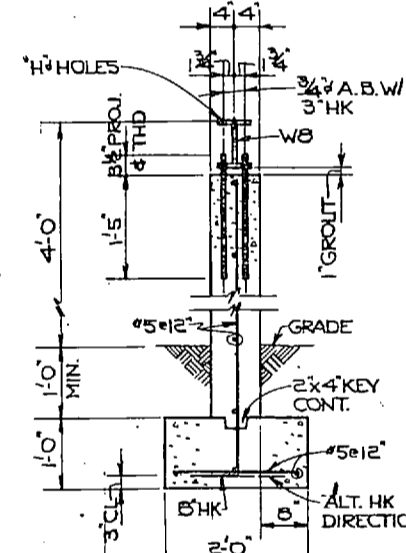


ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"

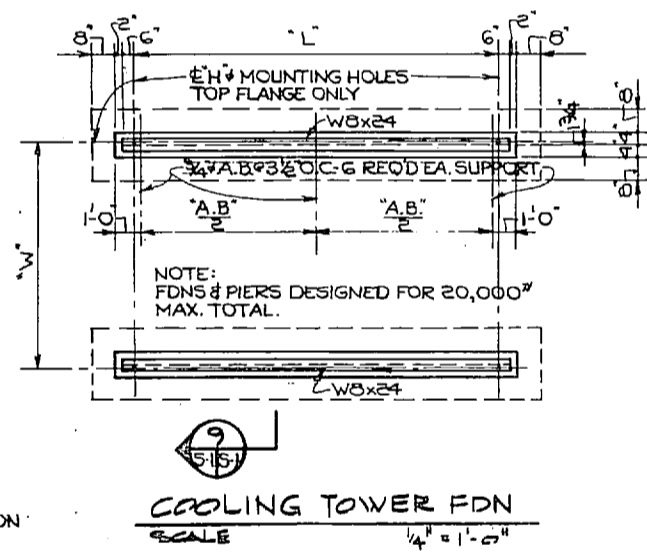
(LIVE LOAD = 20 PSF
WIND LOAD = 30 PSF)



SECTION 1
SCALE: 3/4" = 1'-0"

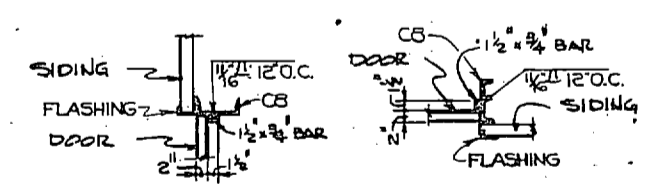


SECTION 9
SCALE: 3/4" = 1'-0"

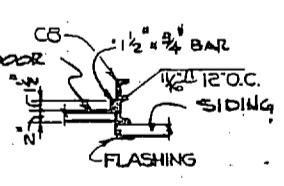


COOLING TOWER FDN
SCALE: 1/4" = 1'-0"

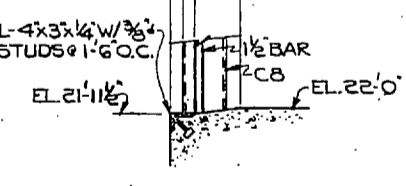
(SEE DWG M-13 FOR LOCATION & ORIENTATION)



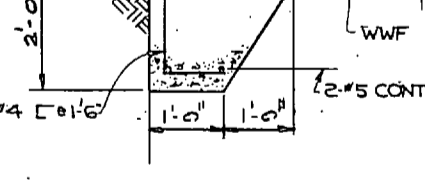
SECTION 2
SCALE: 3/4" = 1'-0"



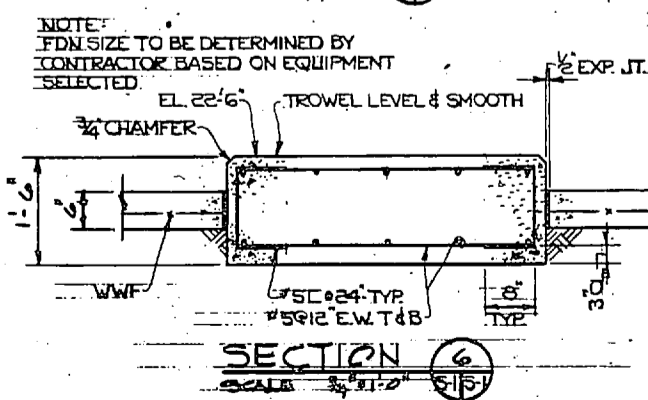
SECTION 3
SCALE: 3/4" = 1'-0"



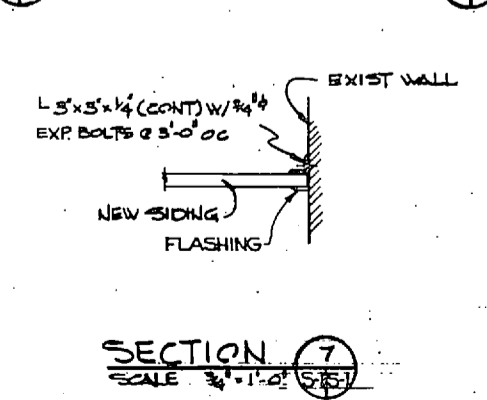
SECTION 4
SCALE: 3/4" = 1'-0"



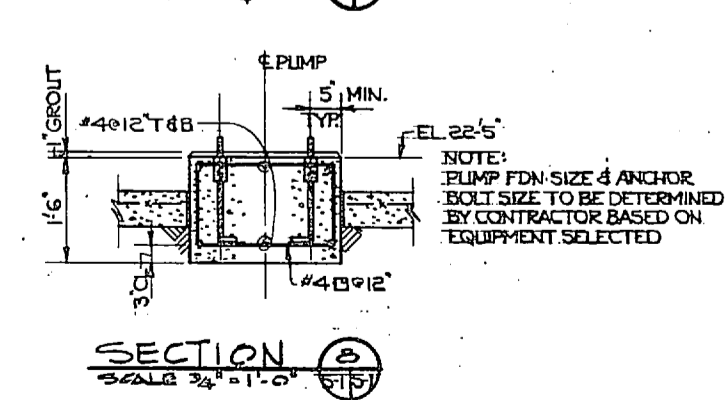
SECTION 5
SCALE: 3/4" = 1'-0"



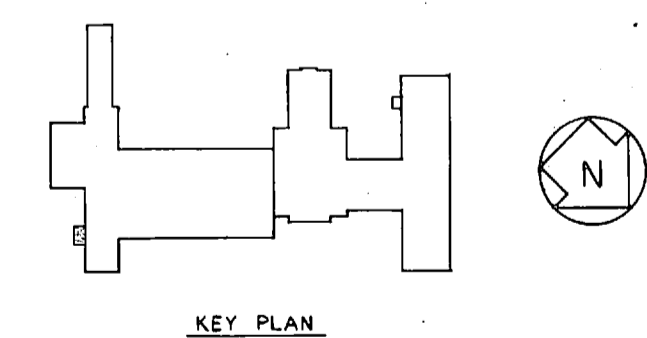
SECTION 6
SCALE: 3/4" = 1'-0"



SECTION 7
SCALE: 3/4" = 1'-0"



SECTION 8
SCALE: 3/4" = 1'-0"

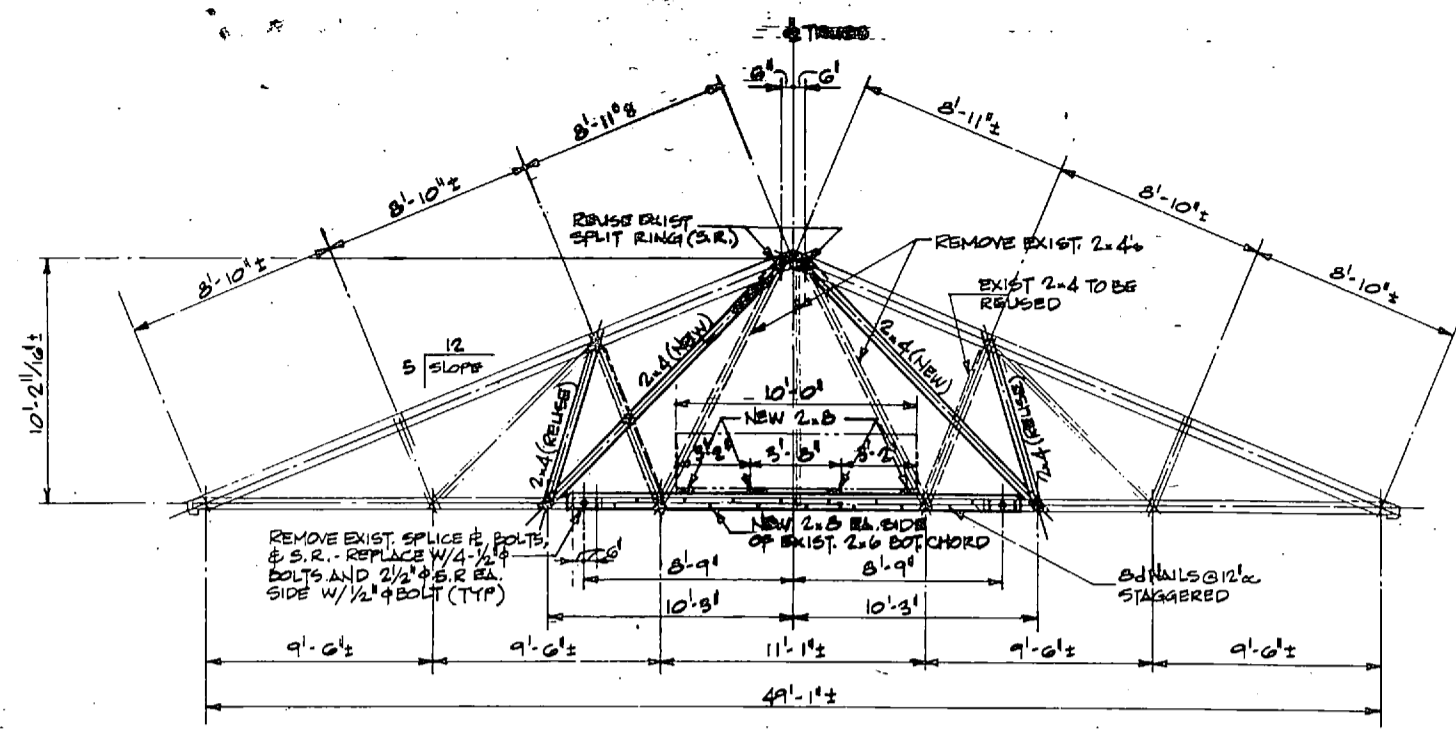


KEY PLAN

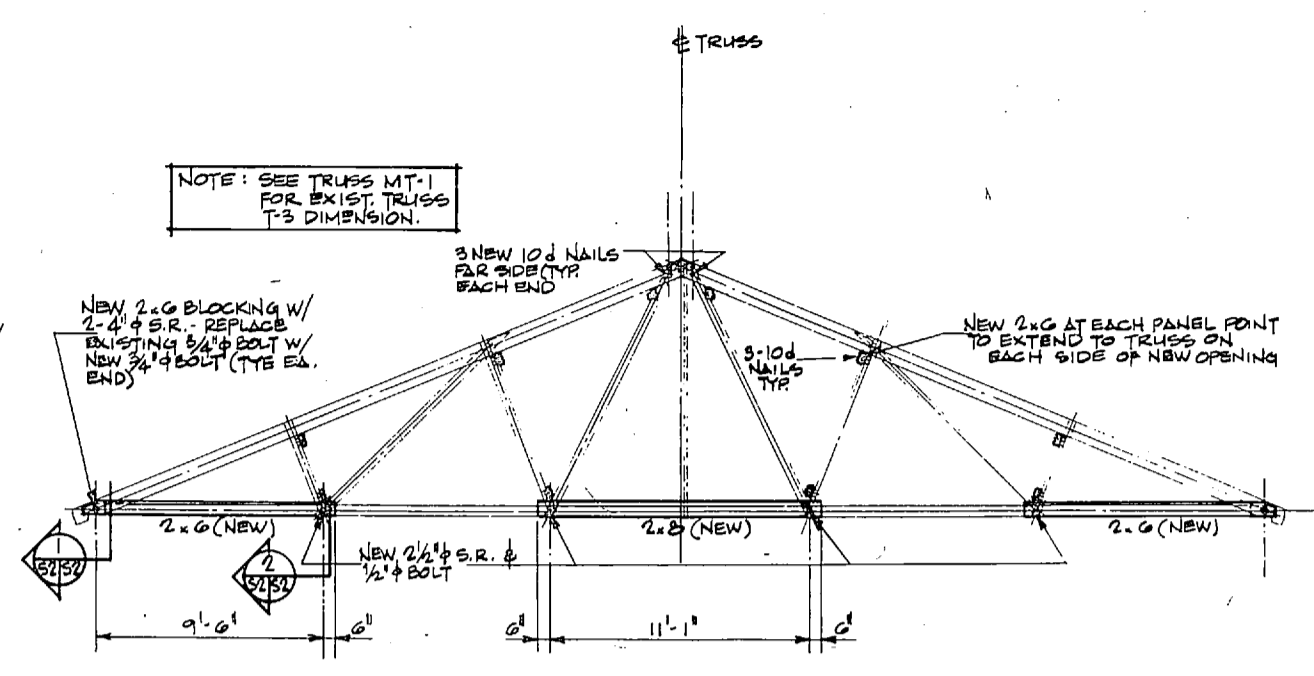
RSNSC JOB NO. 6-048-18 RSNSC DWG. NO. 72-1-0-10	NOONAN GREENVILLE SOUTH CAROLINA ENGINEERS & ARCHITECTS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C.	ATLANTIC DIVISION MORFOLS, VIRGINIA
DESIGNER: KAPP CHECKED: [Signature] APPROVED: [Signature]	PROJECT: REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615 REFRIGERATION ROOM & BUILDING DETAILS	SIZE: 4030250 NAVFAC DRAWING NO. 4030250	CONTRACTOR: 4030250 CONTRACT NO. M2470-77-B-2563 SPEC 05-77-2563 SHEET 10 OF 42



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



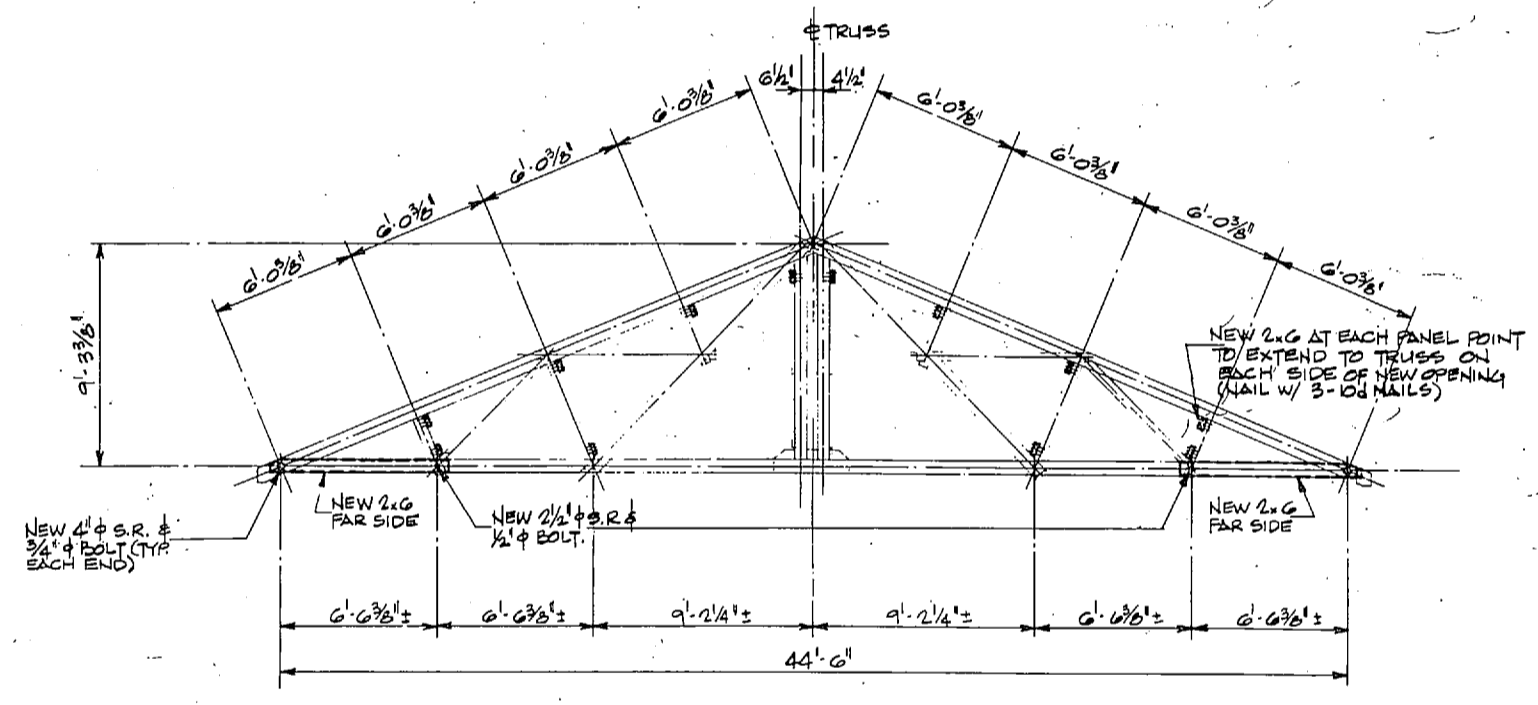
EXISTING TRUSS T-2
MODIFIED TRUSS 'MT-1'
 (4 REQUIRED)
 SCALE: 1/4" = 1'-0"



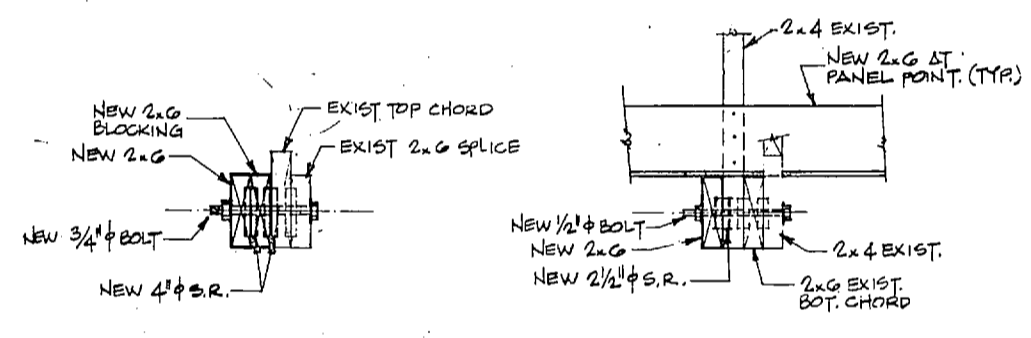
EXISTING TRUSS T-3
MODIFIED TRUSS 'MT-2'
 (2 REQUIRED)
 SCALE: 1/4" = 1'-0"

NOTE: SEE TRUSS MT-1 FOR EXIST. TRUSS T-3 DIMENSION.

GENERAL NOTE
 1. FOR LOCATION OF TRUSS RAFTERS TO BE MODIFIED SEE DRAWING A-3.

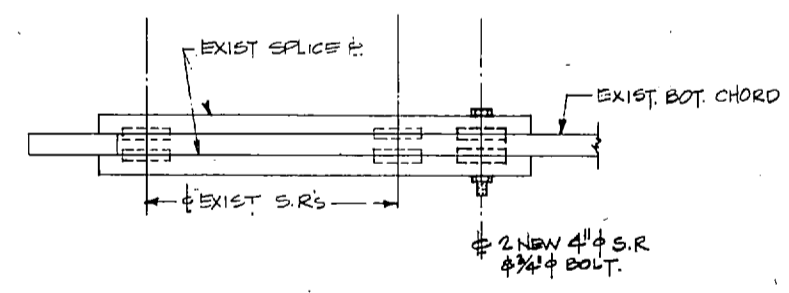


EXISTING TRUSS T-1B
MODIFIED TRUSS 'MT-3'
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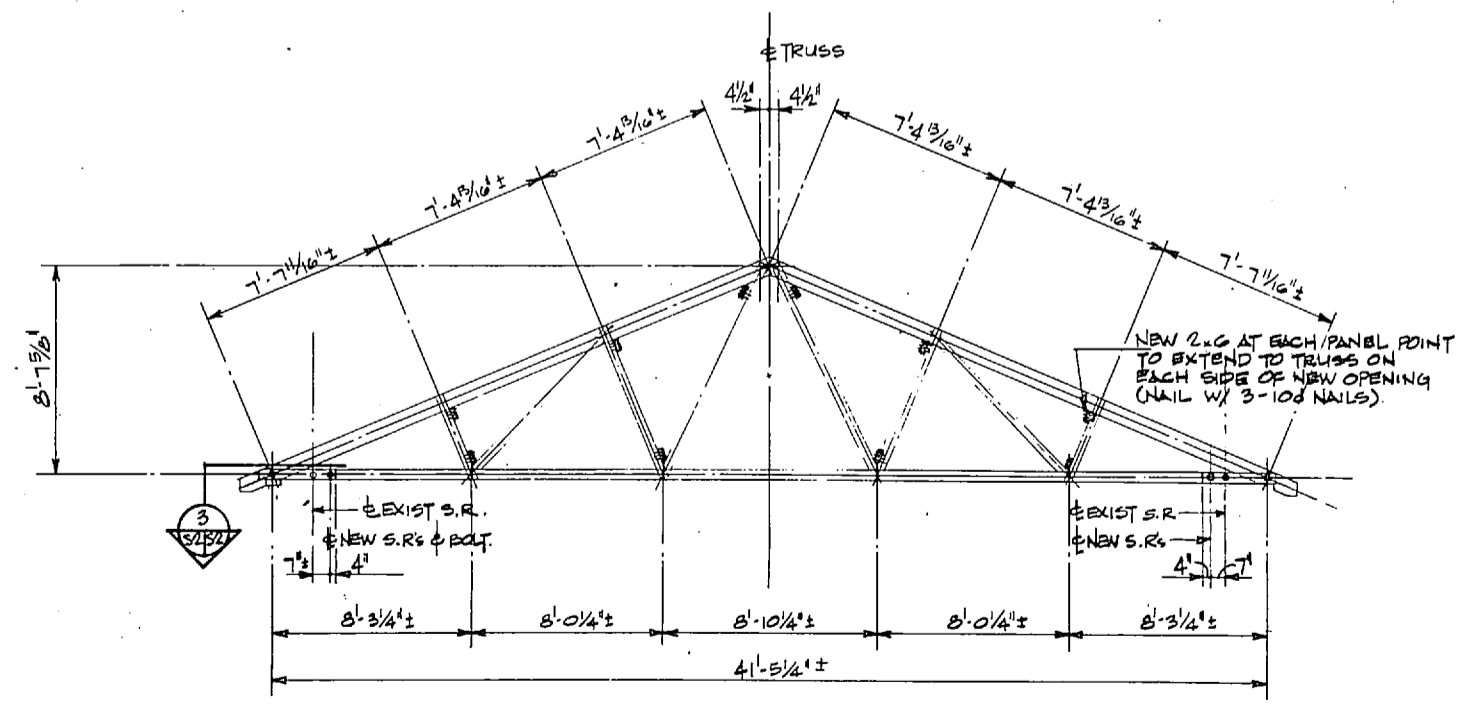


SECTION 1
 SCALE: 1/2" = 1'-0"

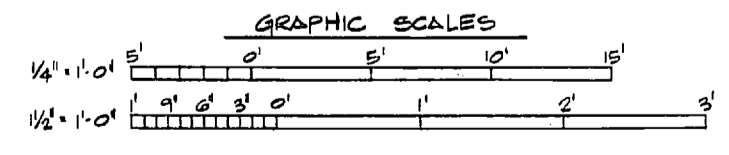
SECTION 2
 SCALE: 1/2" = 1'-0"



SECTION 3
 SCALE: 1/2" = 1'-0"

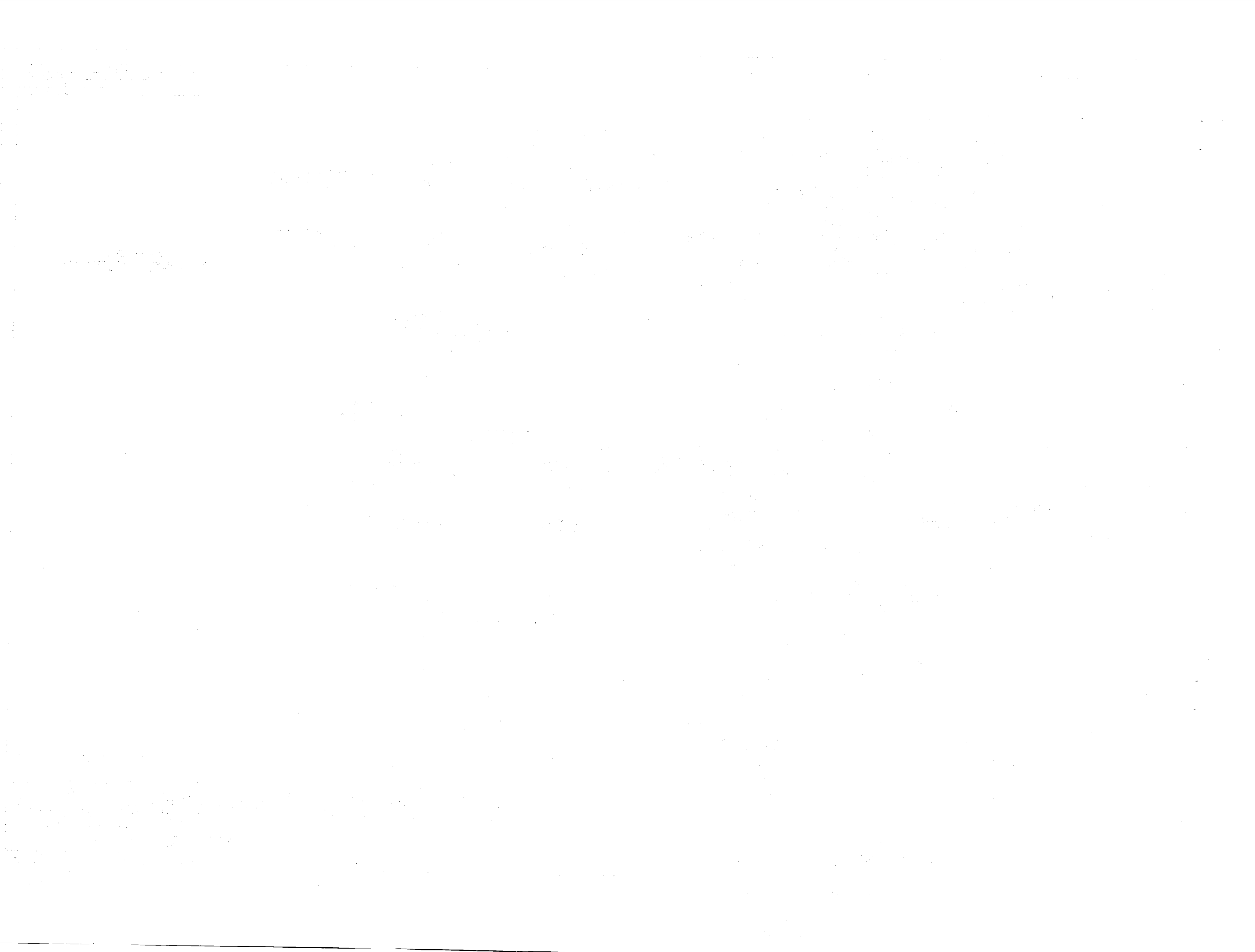


EXISTING TRUSS T-1C
MODIFIED TRUSS 'MT-4'
 (2 REQUIRED)
 SCALE: 1/4" = 1'-0"









































RSNSC JOB NO. 6-048-18 RSNSC DWG. NO. 72-1-0-11		NOONAN GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DRON KAPP OR TRANT CHILDRS PROJ. MGR. KIDD CH ENGR BOVD SUBMITTED BY: [Signature] DATE: 11/17/77 FILE NUMBER: [Signature] RVD: [Signature] EPD: [Signature] DIB: [Signature]		DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION - NORFOLK, VIRGINIA MARINE CORPS BASE - CAMP LEJEUNE, N.C. REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615 TRUSS REVISIONS-DETAILS	
APPROVED: [Signature] DATE: 11/17/77 OFFICER IN CHARGE		SIZE: F	CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 4030251	
APPROVED: [Signature] DATE: 11/17/77 EPD FOR COMMANDER, NAVFAC		CONSTR CONTR. NO. N6 2470-77-B-2563		SHEET 11 OF 42	

S-2

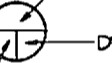



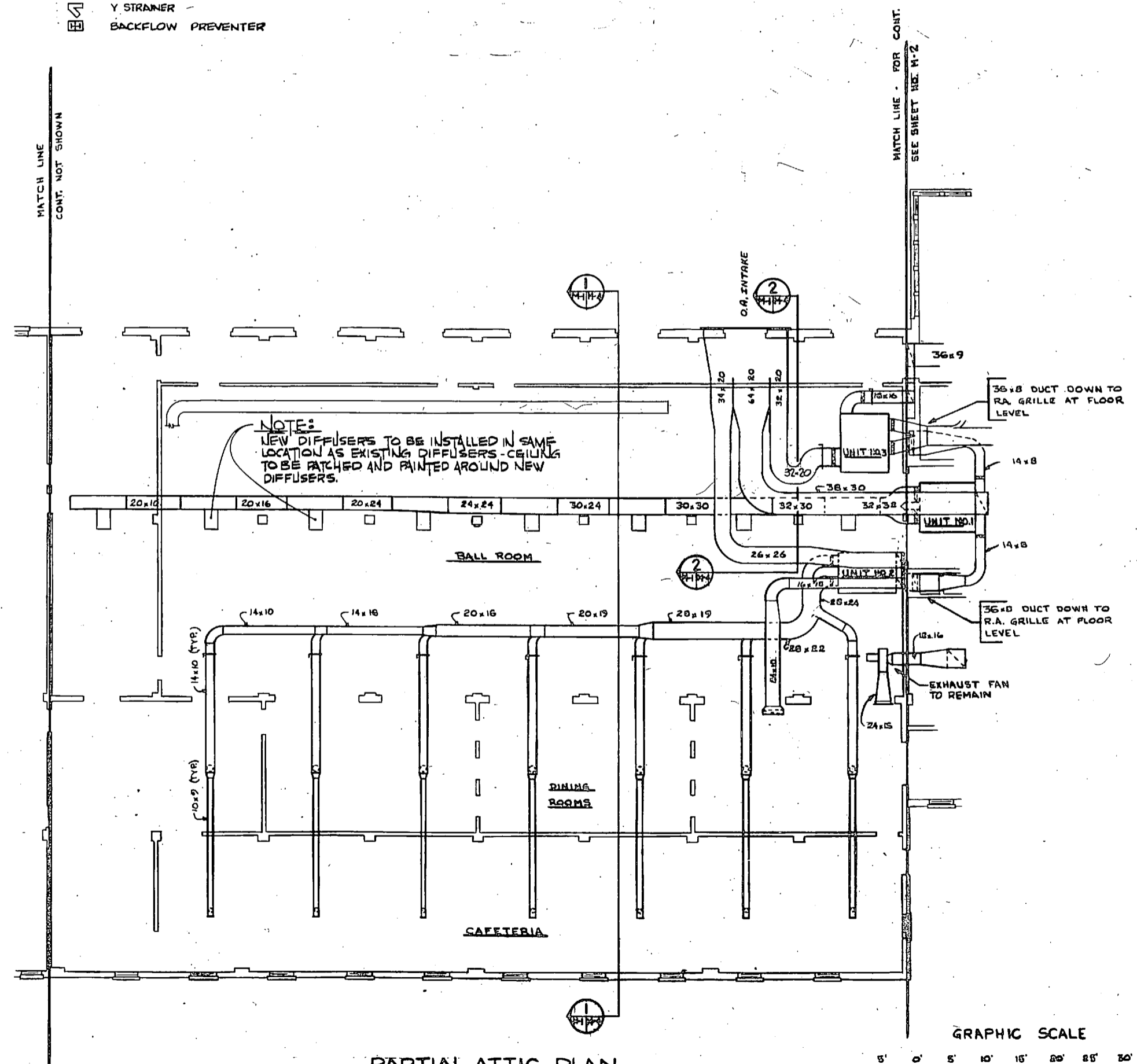
LEGEND:

-  EXISTING PIPING TO BE REMOVED OR ABANDONED.
-  STEAM LINES
-  CONDENSATE LINES
-  REFRIGERANT LINES
-  PNEUMATIC CONTROL LINES
-  CAPILLARY TUBING
-  ELECTRIC SIGNAL
-  INSTRUMENT AIR SUPPLY
-  PRESSURE DIFFERENTIAL
-  SYSTEM MAKE-UP WATER
-  CWS CHILLED WATER SUPPLY
-  CWR CHILLED WATER RETURN
-  HWS HOT WATER SUPPLY
-  HWR HOT WATER RETURN
-  STM STEAM SUPPLY
-  CRM CONDENSATE RETURN
-  DRAIN
-  GATE VALVE
-  GLOBE VALVE
-  CHECK VALVE
-  REGULATOR VALVE
-  Y STRAINER
-  BACKFLOW PREVENTER
-  STEAM TRAP
-  FLANGE CONNECTIONS-DUCTWORK
-  GATE COCK
-  ECC RFD
-  CON RFD
-  TEMPERATURE INDICATOR
-  PRESSURE INDICATOR
-  FLOW SWITCH
-  AIR VENT
-  THERMOSTAT
-  FIRESTAT
-  ZONE NO THERMOSTAT FOR MULTIZONE UNIT
-  UNIT NO THERMOSTAT FOR MULTIZONE UNIT
-  CARBON FILTER
-  FLEXIBLE CONNECTIONS-PUMPS

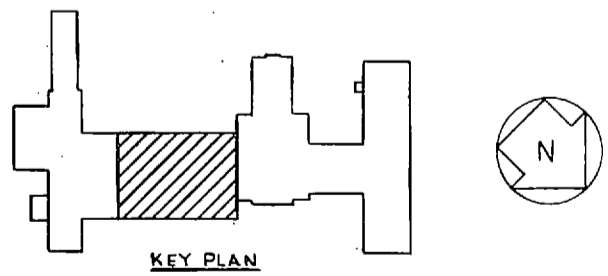
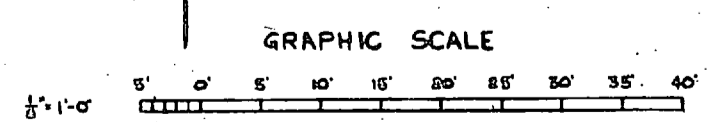
REVISIONS		
SYM	DESCRIPTION	DATE APPROVED

NOTES:
 1. ALL DUCTWORK AND EQUIPMENT ON THIS DWG. TO BE REMOVED UNLESS NOTED OTHERWISE. SEE EQUIP. SCHEDULE ON DWG. M-3.

SECTION NUMBER
 DWG. NO SECTION SHOWN ON
 DWG. NO SECTION TAKEN FROM
SECTION SYMBOL



PARTIAL ATTIC PLAN
 SCALE: 1/8" = 1'-0"

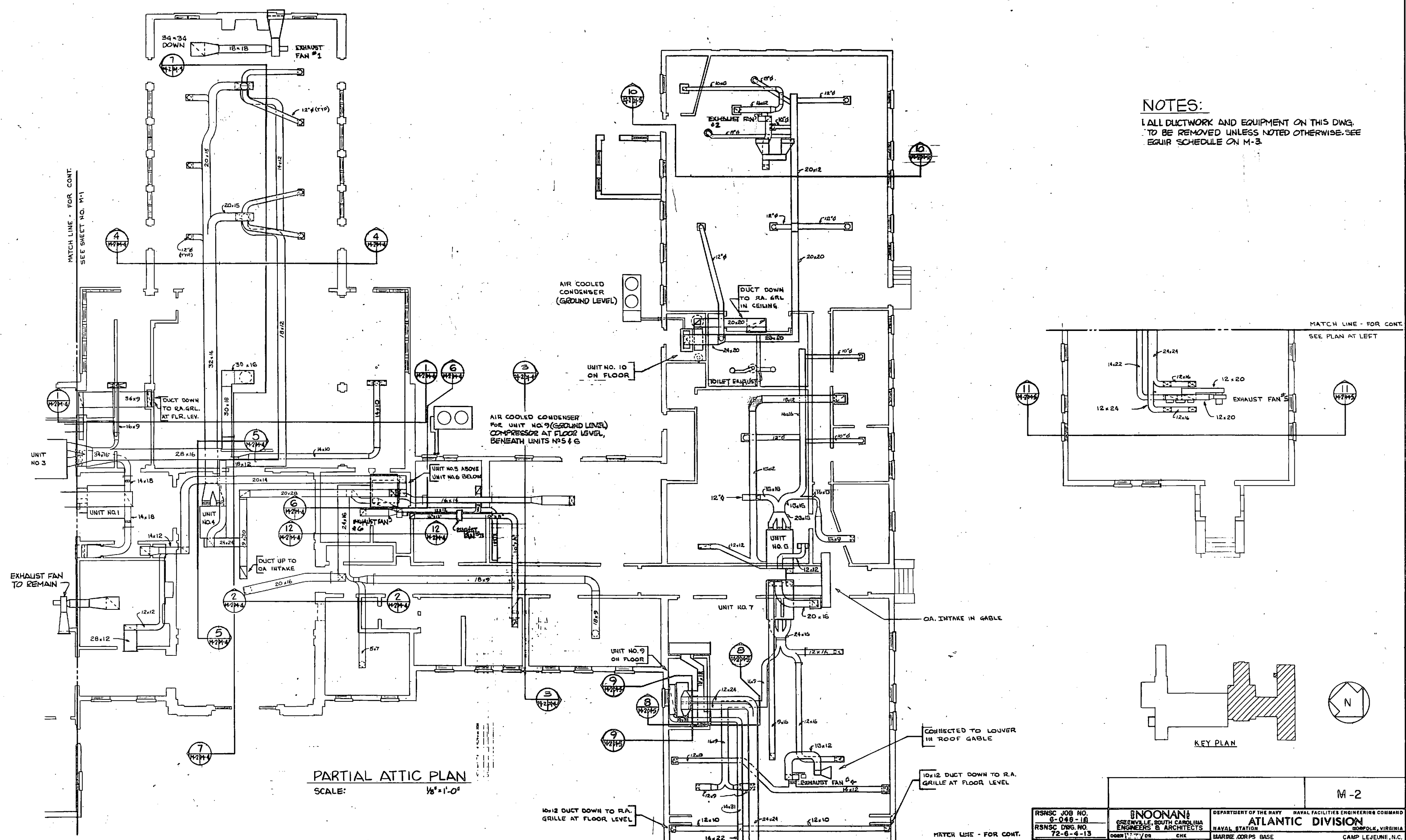


RSNSC JOB NO. S-048-78	INOONANI GREENVILLE SOUTH CAROLINA ENGINEERS & ARCHITECTS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C.	M-1
RSNSC DWG. NO. 72-8-4-12	PROJ. MGR. KIDCH ENON DESIGNED BY CHECKED BY DATE 4/12/77	REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG. 2615 DEMOLITION-DUCTWORK PARTIAL PLAN SHEET 1 OF 2	
SCALE: 1/8" = 1'-0"	DATE: 4/12/77	SIZE: F CODE: 80091	NAVYAC DRAWING NO.: 4030252
			CONSTRUCTION NO. 648476-11-B-2542



REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

NOTES:
 ALL DUCTWORK AND EQUIPMENT ON THIS DWG. TO BE REMOVED UNLESS NOTED OTHERWISE. SEE EQUIP SCHEDULE ON M-3.



RSNHC JOB NO. 6-048-18 RSNHC DWG. NO. 72-6-4-13 SEAL:	INOONANI ENGINEERS & ARCHITECTS 1205 W. 10th St. WASHINGTON, D.C.	DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION - NORFOLK, VIRGINIA MARINE CORPS BASE - CAMP LEJEUNE, N.C.
	PROJECT NO. 1000 CH. ENGR. BOYD DESIGNED BY: [Signature] DRAWN BY: [Signature] CHECKED BY: [Signature]	REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG. 2615 DEMOLITION-DUCTWORK PARTIAL PLAN SHEET 2 OF 2
DATE: 11/25/77 SCALE: AS NOTED	SIZE: F CODE: 80091 DRAWING NO.: 4050283	COMDT CONTR. NO. 77-6-2563 SHEET 18 OF 22

REVISIONS		
SYM	DESCRIPTION	DATE APPROVED

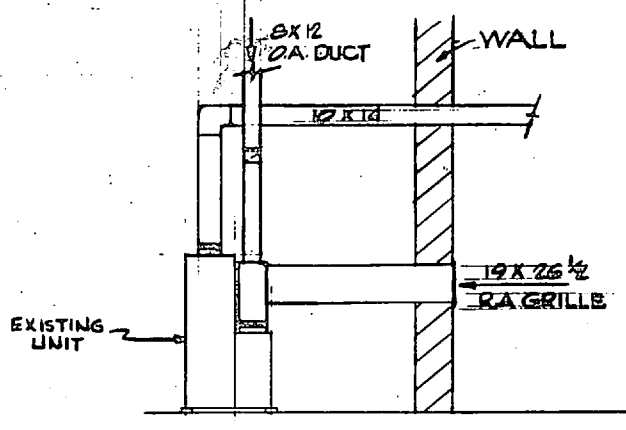
NOTE: ALL EQUIPMENT LISTED BELOW IS TO BE REMOVED

EXISTING AIR HANDLING UNIT

ITEM NO.	MANUFACTURER	MODEL	DIMENSIONS		
			L	W	H
1			9'-6"	8'-2"	4'-6"
2			7'-6"	7'-9"	8'-6"
3	G.E.	8K335D9	9'-11"	7'-1"	
4			7'-8"	7'-4"	8'-6"
5	AMER. STD.	HV-H2180	6'-2"	7'-3"	8'-6"
6	AMER. STD.	HV-H1180	9'-3"	5'-6"	2'-2"
7	MARLO		6'-6"	5'-8"	2'-8"
8	MARLO		7'-8"	5'-2"	2'-8"
9	MARLO	PIB.5			
10	WESTINGHOUSE	AB 640BIX			
25 th FL.	GARRIS	50 RS-119			

EXISTING EXHAUST FANS

ITEM NO.	LOCATION	TYPE	CFM	H.P.
1	ENGINE ROOM CEILING	CENTRIFUGAL	7400	1/3
2	INFORMAL BAR CEILING	CENTRIFUGAL	7250	1/4
3	ATTIC DUCTWORK	CENTRIFUGAL	800	1/6
4	FORMAL BAR	CENTRIFUGAL	—	1/2
5	FORMAL BAR	CENTRIFUGAL	1200	—
6	GOLF ROOM CEILING	CENTRIFUGAL	7800	1/3



SECTION SCALE 1/4"=1'-0"

NOTE: ALL DUCTWORK AND EQUIPMENT ON THIS DRAWING TO BE REMOVED UNLESS OTHERWISE NOTED.

EXISTING REFRIGERATION EQUIPMENT

ITEM NO.	MANUFACTURER	ITEM # MODEL NO.	H.P.	REMARKS
1	WESTINGTON	COMPRESSOR 4 HFG-100	50	SERVING UNITS 1-3
2	WESTINGTON	COMPRESSOR 4 HFG-100	50	SERVING UNITS 1-3
3	WESTINGTON	COMPRESSOR 4 HFG-100	60	SERVING UNITS 1-3
4	WESTINGHOUSE	AIR COOLED CONDENSER LSEC-432	—	SERVING UNIT 9
5	DUNHAM BUSH	AIR COOLED CONDENSER SL 120 CAS	—	SERVING UNIT 10
6	YORK	COMPRESSOR H625N12	—	SERVING UNIT 10

EXISTING COOLING TOWER

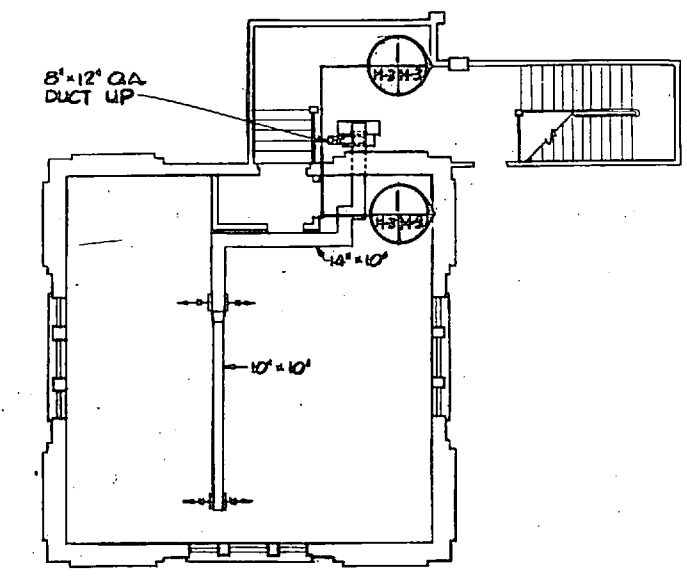
ITEM NO.	MANUFACTURER	MODEL	H.P.	REMARKS
1	MARLEY		7 1/2	WOODEN TOWER APPROX. 12'x12'x14' HIGH.

EXISTING MISC. EQUIPMENT

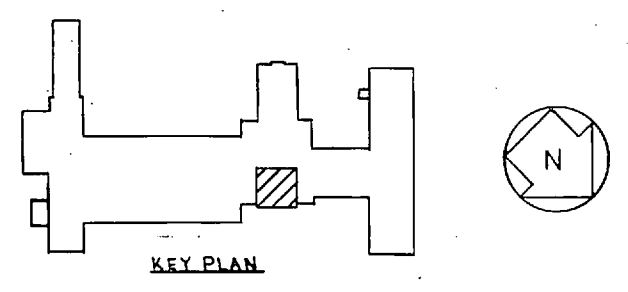
ITEM	SIZE	LOCATION
COMPRESSION TANK	30 GAL.	IN ATTIC
CONDENSER	1'-6" DIA. x 12'-0" L.	IN ATTIC
CHILLER	1'-6" DIA. x 12'-0" L.	IN ATTIC
LIQUID RECEIVER	1'-6" DIA. x 12'-0" L.	IN MECH. EQUIP. ROOM

EXISTING PUMPS

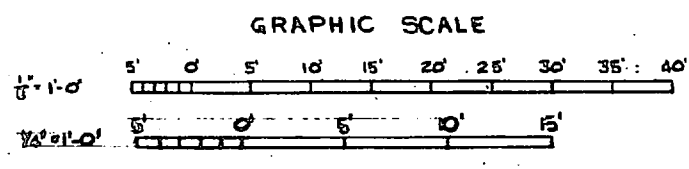
ITEM NO.	DESCRIPTION	H.P.	LOCATION
1	COOLING TOWER	15	IN MECH. EQUIP. ROOM
2	CHILLED WATER	5	IN MECH. EQUIP. ROOM
3	CHILLED WATER	3	IN MECH. EQUIP. ROOM



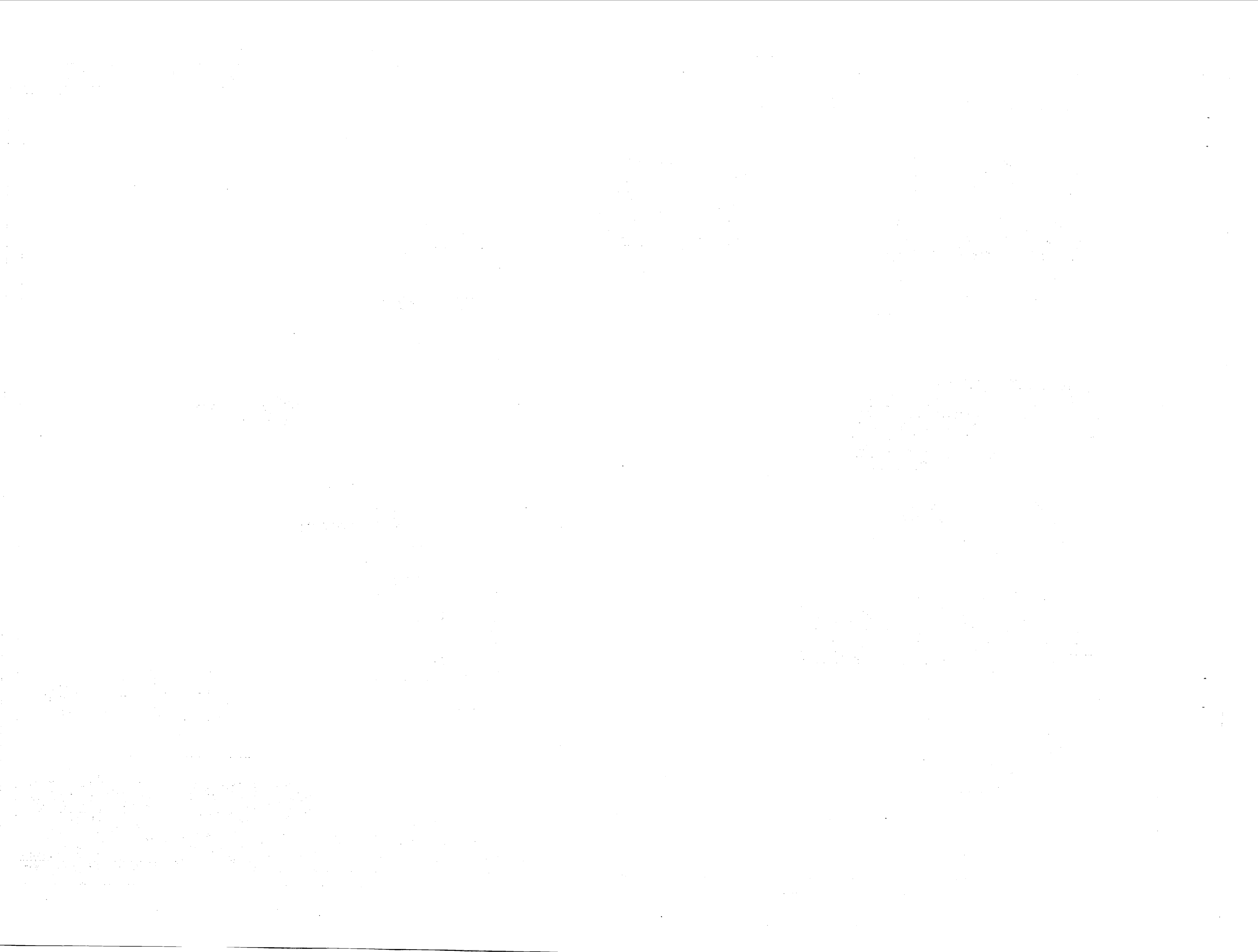
SECOND FLOOR PLAN SCALE: 1/4"=1'-0"



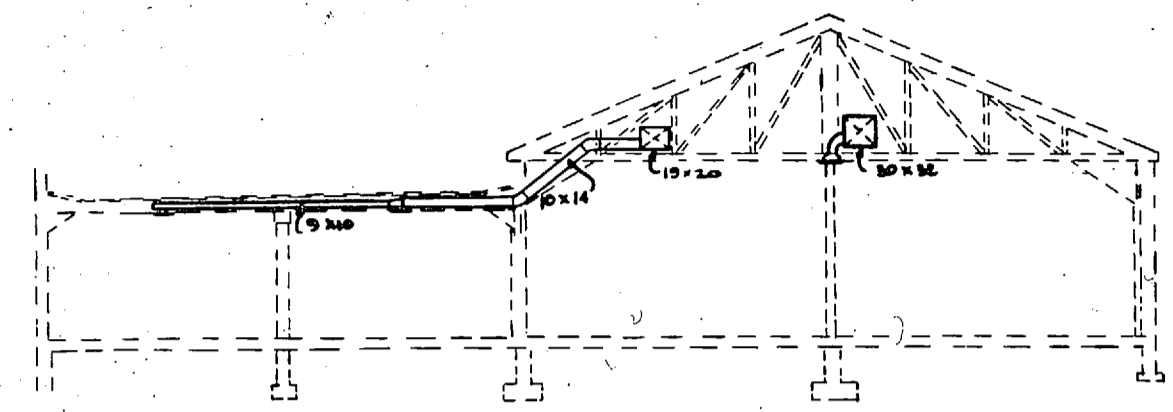
KEY PLAN



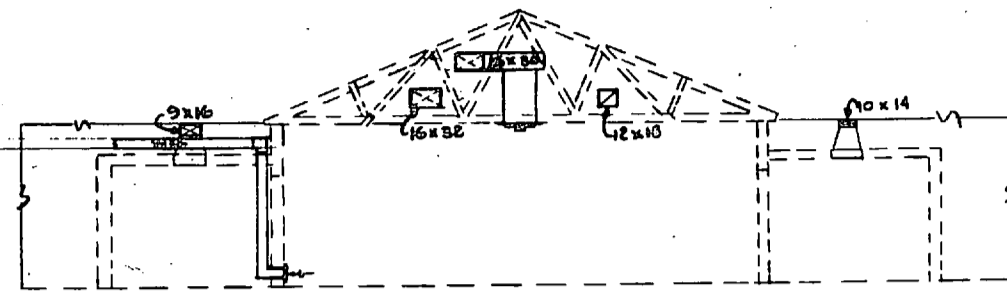
RNSC JOB NO. 6-048-18 RNSC DWG. NO. 72-8-4-14 SEAL: NORTH CAROLINA REGISTERED SEAL X 5568 ENGINEER JOHN T. BOLLING JR.	INOONANI GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS PROD. MGR. KIDDEH EMER BOND DATE 4/26/72 SEAL: NORTH CAROLINA REGISTERED SEAL X 5568 ENGINEER JOHN T. BOLLING JR.	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA MARINE CORPS BASE CAMP LEJEUNE, N.C. REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615 DEMOLITION-EQUIPMENT SCHEDULE & SECOND FLOOR DUCTWORK SIZE CODE IDENT NO. 80091 NAVFAC DRAWING NO. 4030254 CONSTR. CONTR. NO. 228470-77-B-2343	M-3
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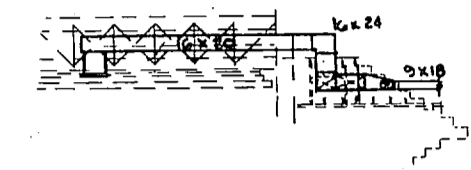
REVISIONS		
NO.	DESCRIPTION	DATE APPROVED



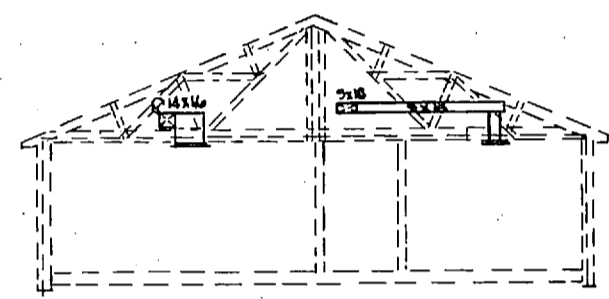
SECTION 1
SCALE: 1/4"=1'-0"



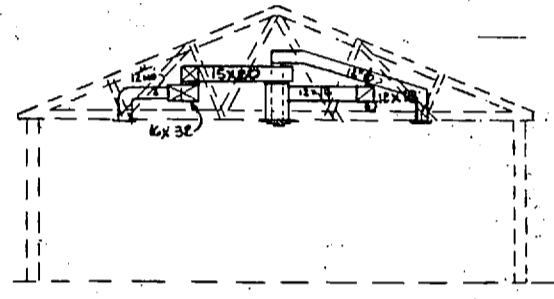
SECTION 2
SCALE: 1/4"=1'-0"



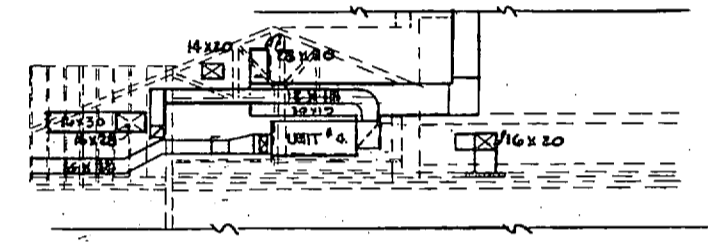
SECTION 3
SCALE: 1/4"=1'-0"



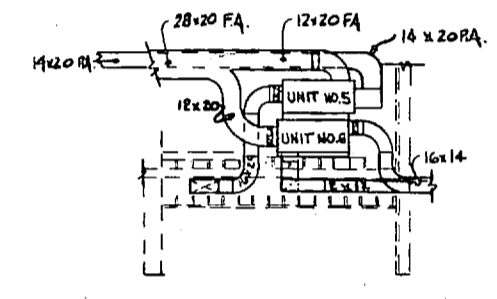
SECTION 4
SCALE: 1/4"=1'-0"



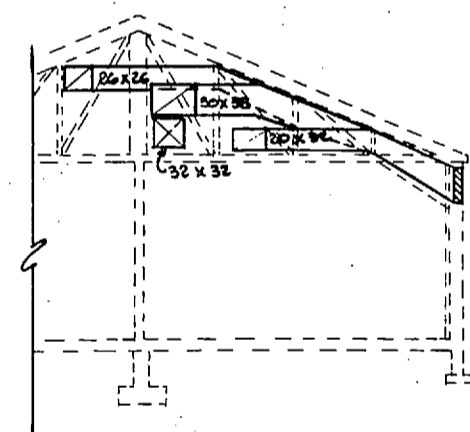
SECTION 5
SCALE: 1/4"=1'-0"



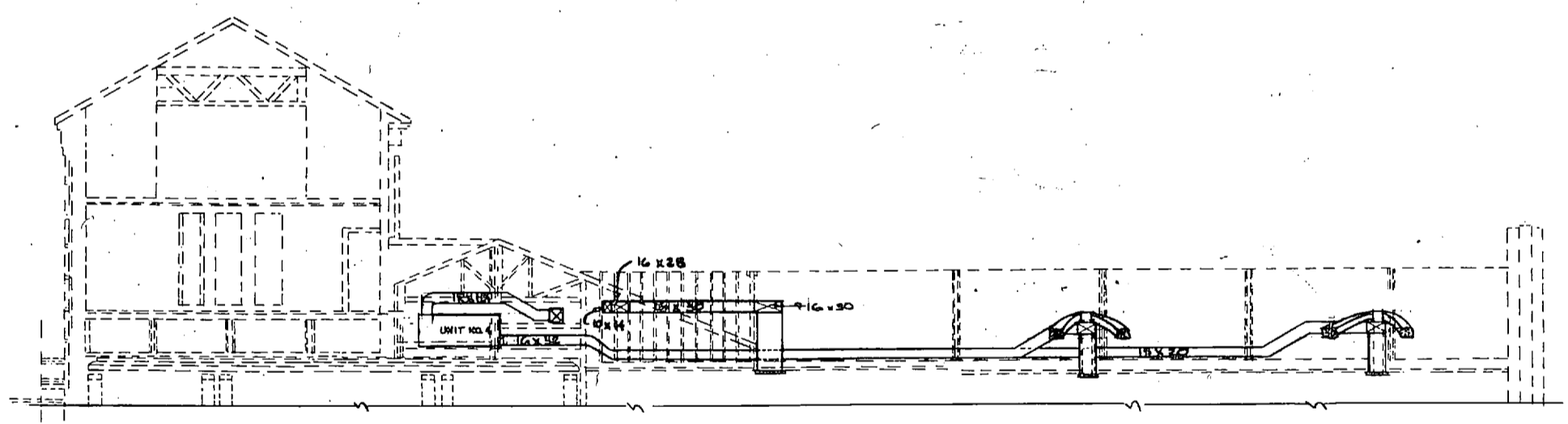
SECTION 6
SCALE: 1/4"=1'-0"



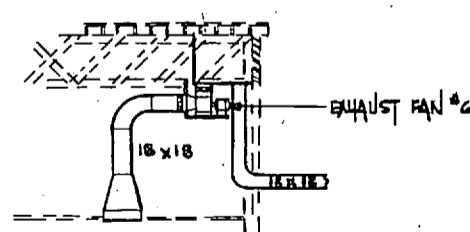
SECTION 7
SCALE: 1/4"=1'-0"



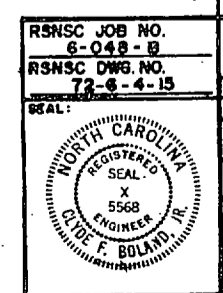
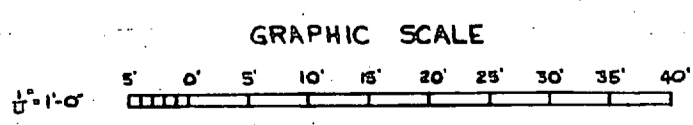
SECTION 8
SCALE: 1/4"=1'-0"



SECTION 9
SCALE: 1/4"=1'-0"



SECTION 10
SCALE: 1/4"=1'-0"

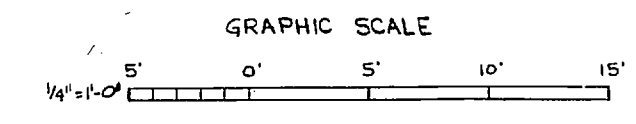
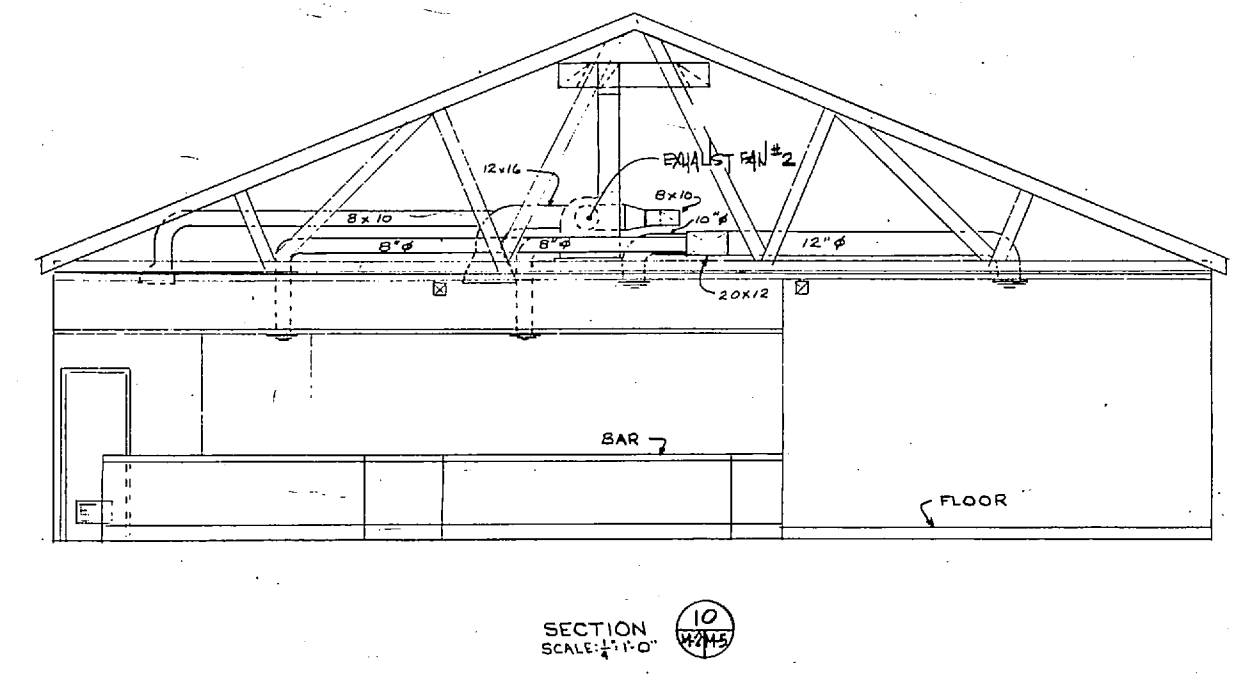
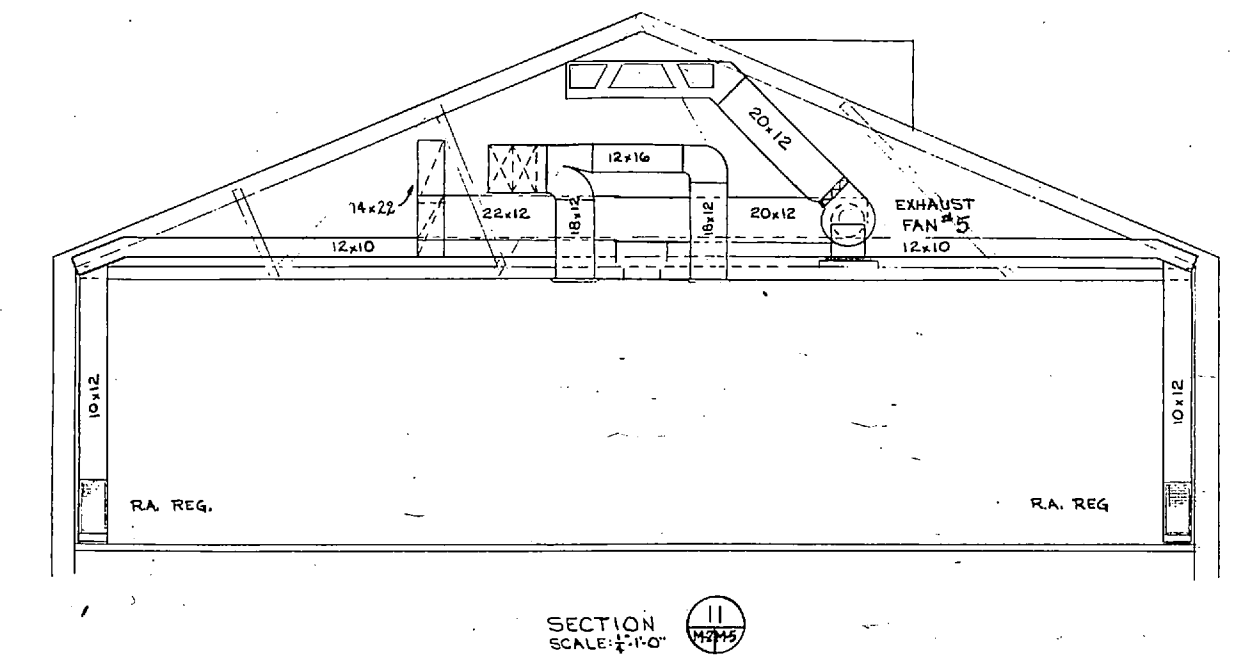
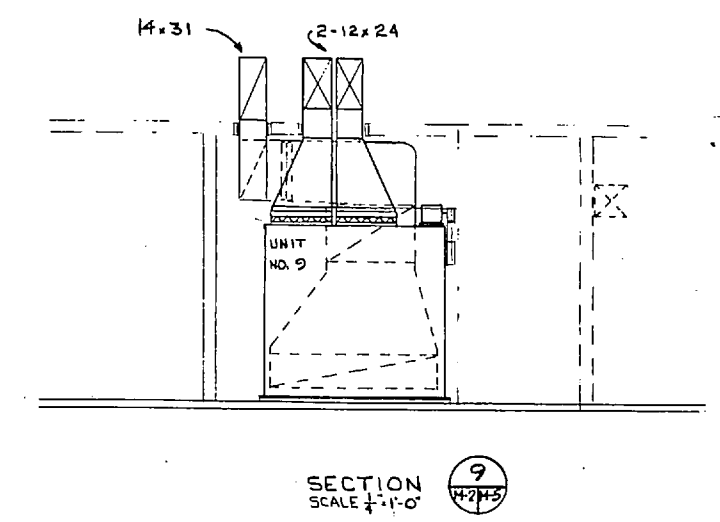
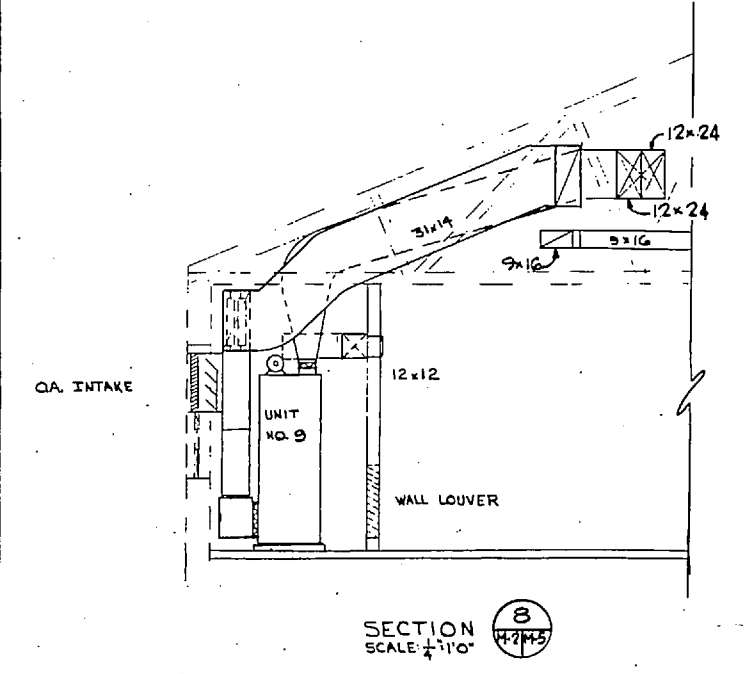


RSNSC JOB NO. 6-048-B	RSNSC DWS NO. 78-6-4-15	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION	M-4
DESIGNED BY R. J. BOYD	DATE 4/12/77	NAVAL STATION MARINE CORPS BASE REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG 2515 DEMOLITION-DUCTWORK SECTIONS SHEET 1 OF 2	4030285
APPROVED BY R. J. BOYD	DATE 4/12/77	SIZE F	CODE (IBBY) NO. 4030285
SCALE AS NOTED	CONTR. CONTR. NO. 158470-77-B-2083	SHEET 15	OF 42

BLDG

2615

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



RSNSC JOB NO. 6-048-18		RSNSC DWG. NO. 72-5-4-16		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS		PROJECT NO. 6-048-18		NAVAL STATION ATLANTIC DIVISION	
PROJ. MGR. KIDD CH ENGR. P. 000		DATE 11/27/77		MARINE CORPS BASE CAMP LEJEUNE, N.C.	
SEAL: [Professional Engineer Seal]		APPROVED BY [Signature]		REPLACE HEATING AND AIR CONDITIONING COM (O) BLDG. 2615 DEMOLITION-DUCTWORK SECTIONS SHEET 2 OF 2	
OFFICE IN CHARGE [Signature]		DATE 11/27/77		NAVFAC DRAWING NO. 4030256	
FOR COMMANDER, NAVFAC		SCALE AS NOTED		CONSTR. CONTR. NO. N62470-77-B-2563 SPEC. 07-77-2563 SHEET 16 OF 42	

M-5

REVISIONS		
BY	DESCRIPTION	DATE APPROVED

NOTE: SEE DEMOLITION SCHEDULE
DWS. M-5

EXIST. COOLING TOWER
TO BE
REMOVED

NOTE: AFTER COOLING TOWER IS REMOVED,
COMPLETE REMOVAL OF EXIST. PIPING

ABANDON AND LEAVE
THIS PIPE IN PLACE
IN DIRECTION OF ARROW

MATCH LINE - SEE SHEET M-7

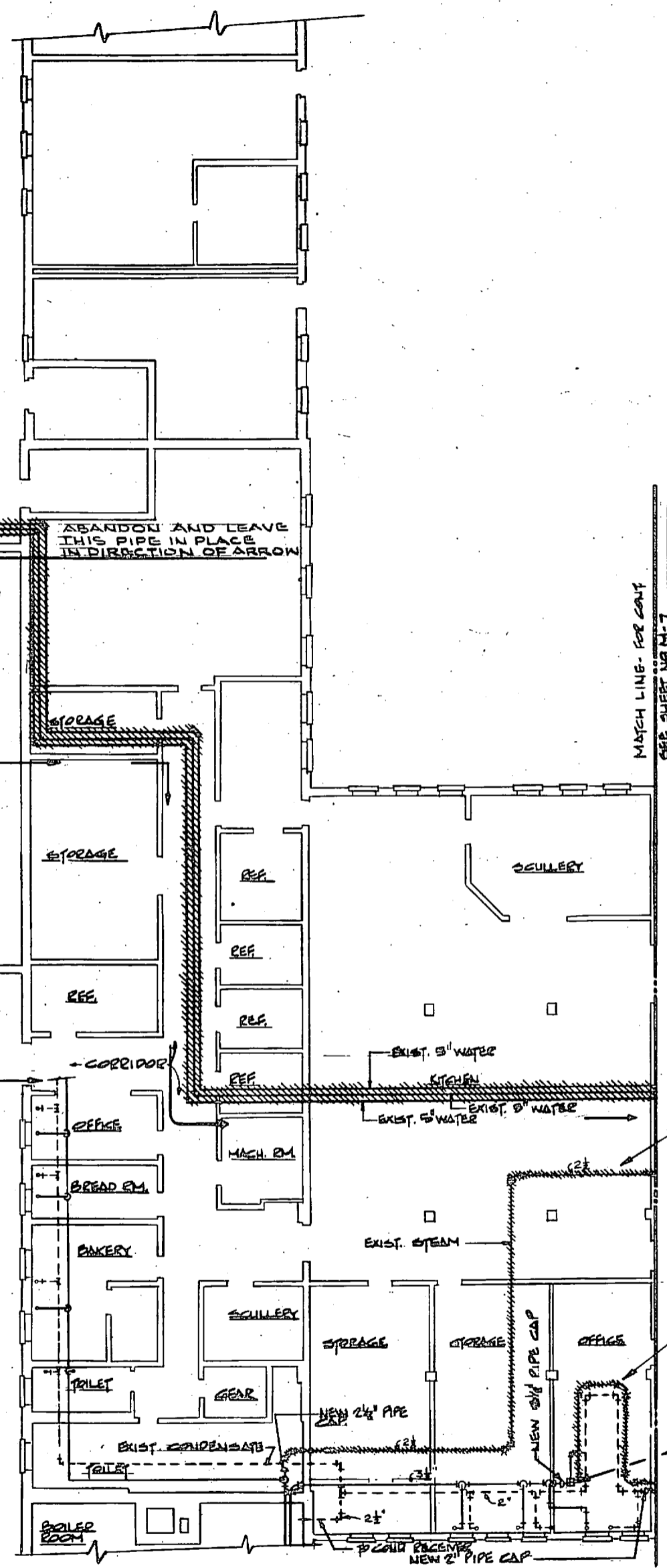
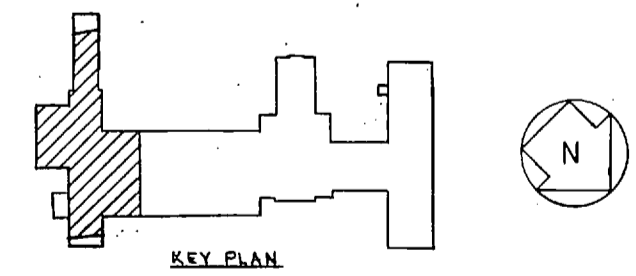
NOTE:
FOR LEGEND SEE SHEET NO. M-1

NOTE: PIPE AND RADIATORS
BEYOND THIS POINT
ARE NOT SHOWN ON
THIS DRAWING BUT WILL
REMAIN IN PLACE

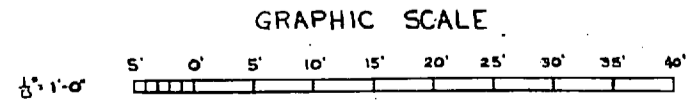
REMOVE THIS PIPE TO MAKE WAY
FOR INSTALLATION OF NEW PIPING

ABANDON THIS PIPE
IN PLACE

(SEE TYP. TRAP DETAIL)

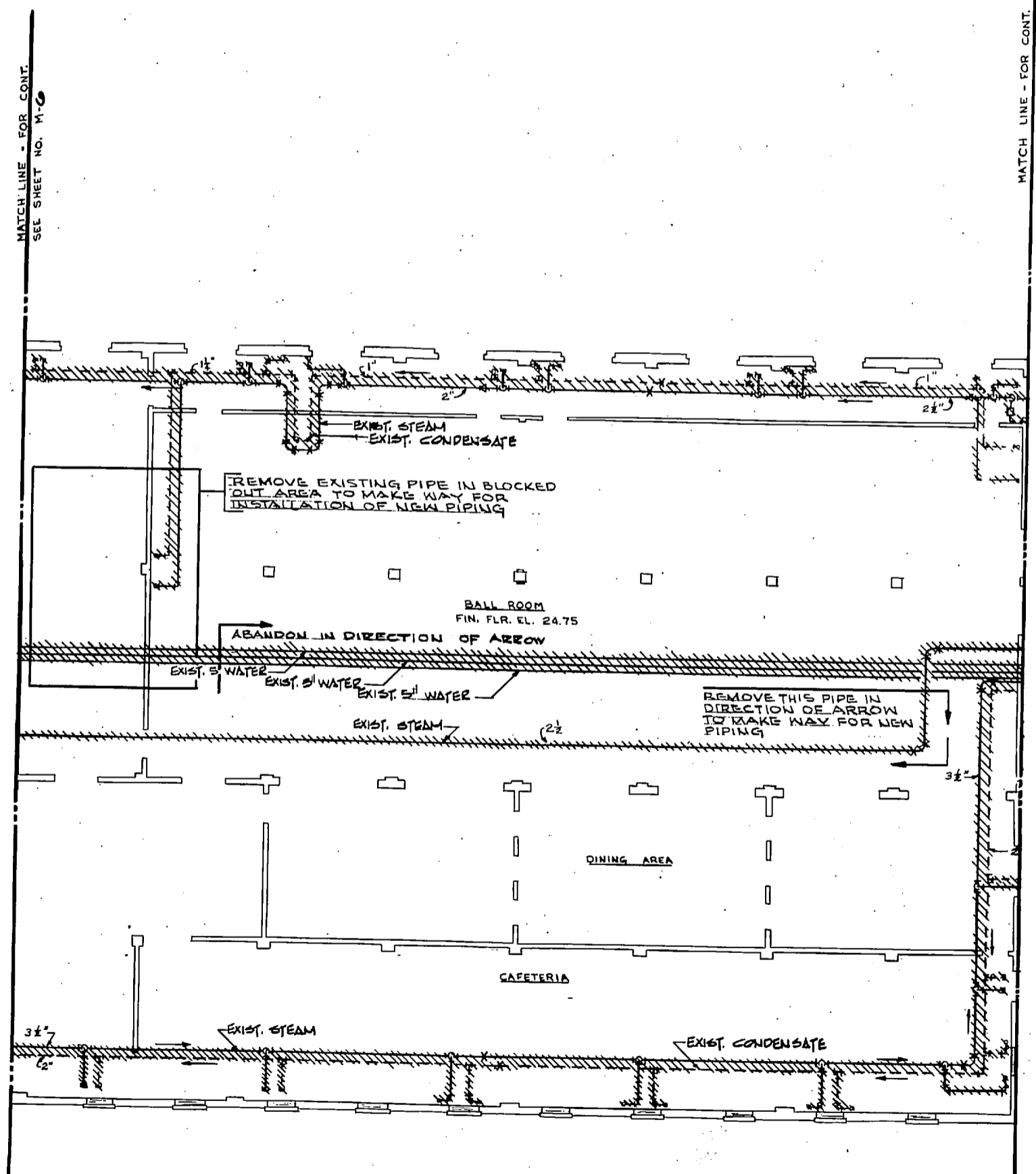


PARTIAL FLOOR PLAN
SCALE 1/8"=1'-0"

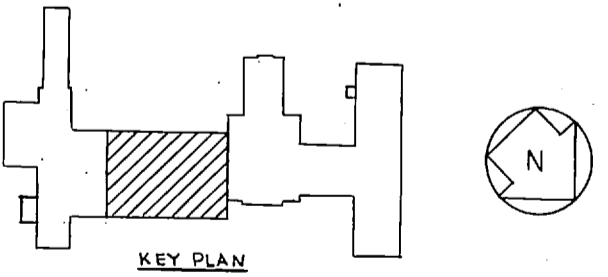


RSNSC JOB NO. 6-048-10		INCONANI GREENVILLE SOUTH CAROLINA ENGINEERS & ARCHITECTS		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION	
RSNSC DWG. NO. 72-6-3-17		PROJECT NO. 2100 CH. 8888 2070		NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C.	
DRAWN BY J.P.		CHECKED BY J.P.		REPLACE HEATING AND AIR CONDITIONING COM (O) - BLDG. 2215 DEMOLITION-UNDERFLOOR PIPING SHEET 1 OF 3	
DATE 4/21/77		DATE 4/21/77		SIZE F 80091 4030257	
APPROVED BY [Signature]		DATE 4/21/77		CONTRACT NO. 082470-77-B-2563	
SCALE AS NOTED		SPEC. 00-77-0003		SHEET 17 OF 42	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

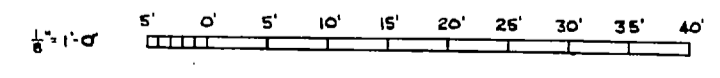


NOTE:
 1- FOR LEGEND SEE SHEET NO. M-1
 2- REMOVE ALL RADIATORS INDICATED ON THIS DWG
 3- ABANDON EXISTING PIPE AND LEAVE IN PLACE EXCEPT AS NOTED



PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE



RSNSC JOB NO. 6-048-18
 RSNSC DWG. NO. 72-6-5-18

NOONANI
 GREENVILLE, SOUTH CAROLINA
 ENGINEERS & ARCHITECTS

DEPARTMENT OF THE NAVY
ATLANTIC DIVISION
 NAVAL FACILITIES ENGINEERING COMMAND
 NAVAL STATION
 MARINE CORPS BASE - CAMP LEJEUNE, N.C.
 MORFOLK, VIRGINIA

PROJECT: KIDD CH ENGR 80-0
 SUBMITTED BY: [Signature] VP
 DATE: 4/23/77
 CHECKED BY: [Signature]
 DATE: 4/23/77
 APPROVED BY: [Signature]
 DATE: 4/23/77
 OFFICE IN CHARGE: [Signature]
 DATE: 4/23/77
 APPROVED BY: [Signature]
 DATE: 4/23/77
 BY: [Signature]
 DATE: 4/23/77

REPLACE HEATING AND AIR CONDITIONING
 COM (O) - BLDG. 2615
 DEMOLITION-UNDERFLOOR PIPING
 SHEET 2 OF 3

SIZE: F
 CODE IDENT NO.: 80091
 NAVFAC DRAWING NO.: 4030258
 CONSTR. CONTR. NO.: N62470-77-B-2563
 SPEC. OS-77-2063
 SHEET 18 OF 40

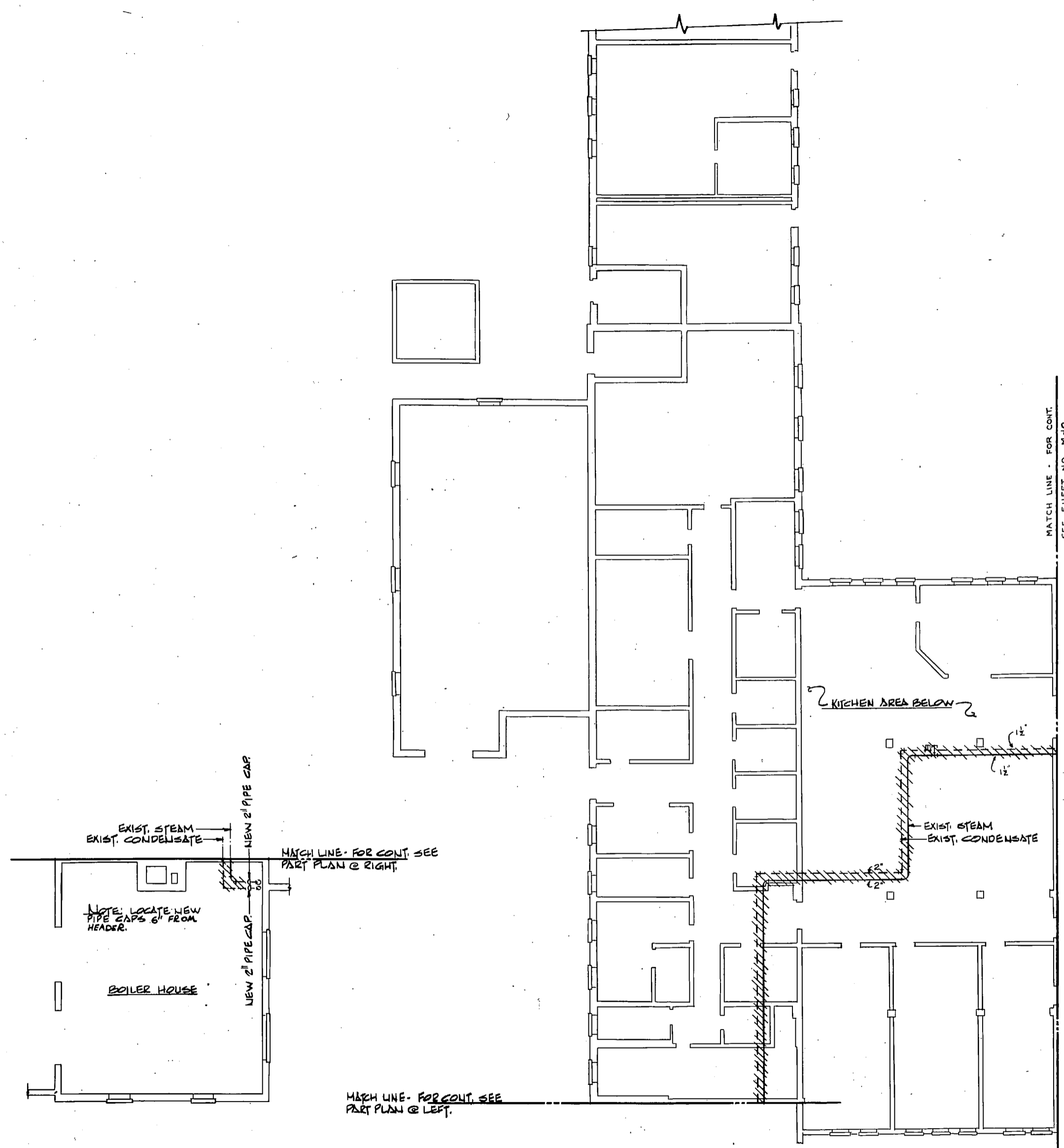
SEAL: [Professional Engineer Seal]

M-7



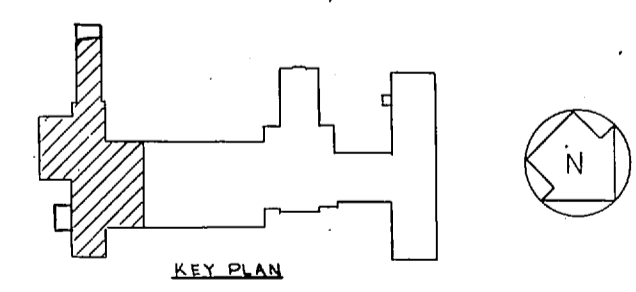
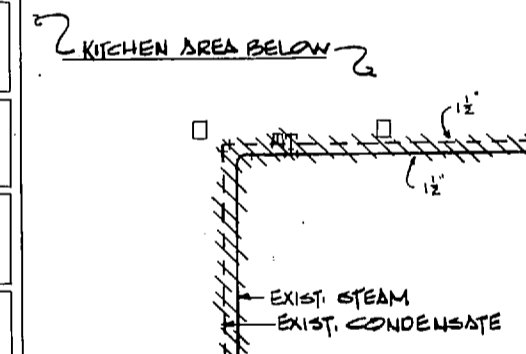
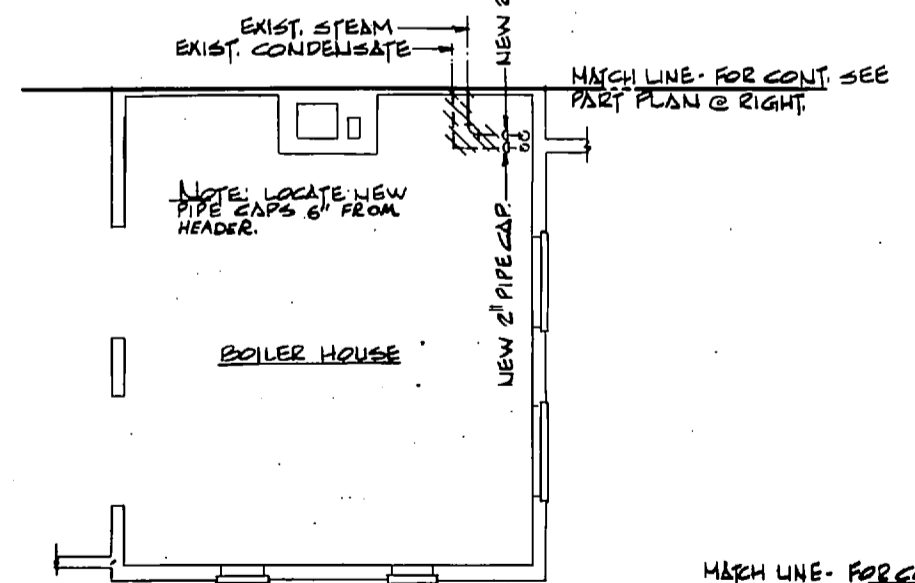


REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

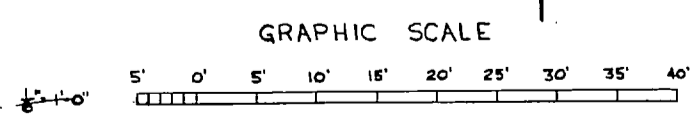


MATCH LINE - FOR CONT. SEE SHEET NO. M-10

NOTE:
 1- FOR LEGEND SEE SHEET NO. M-1
 2- REMOVE ALL EXISTING PIPE TO MAKE WAY FOR NEW DUCTWORK

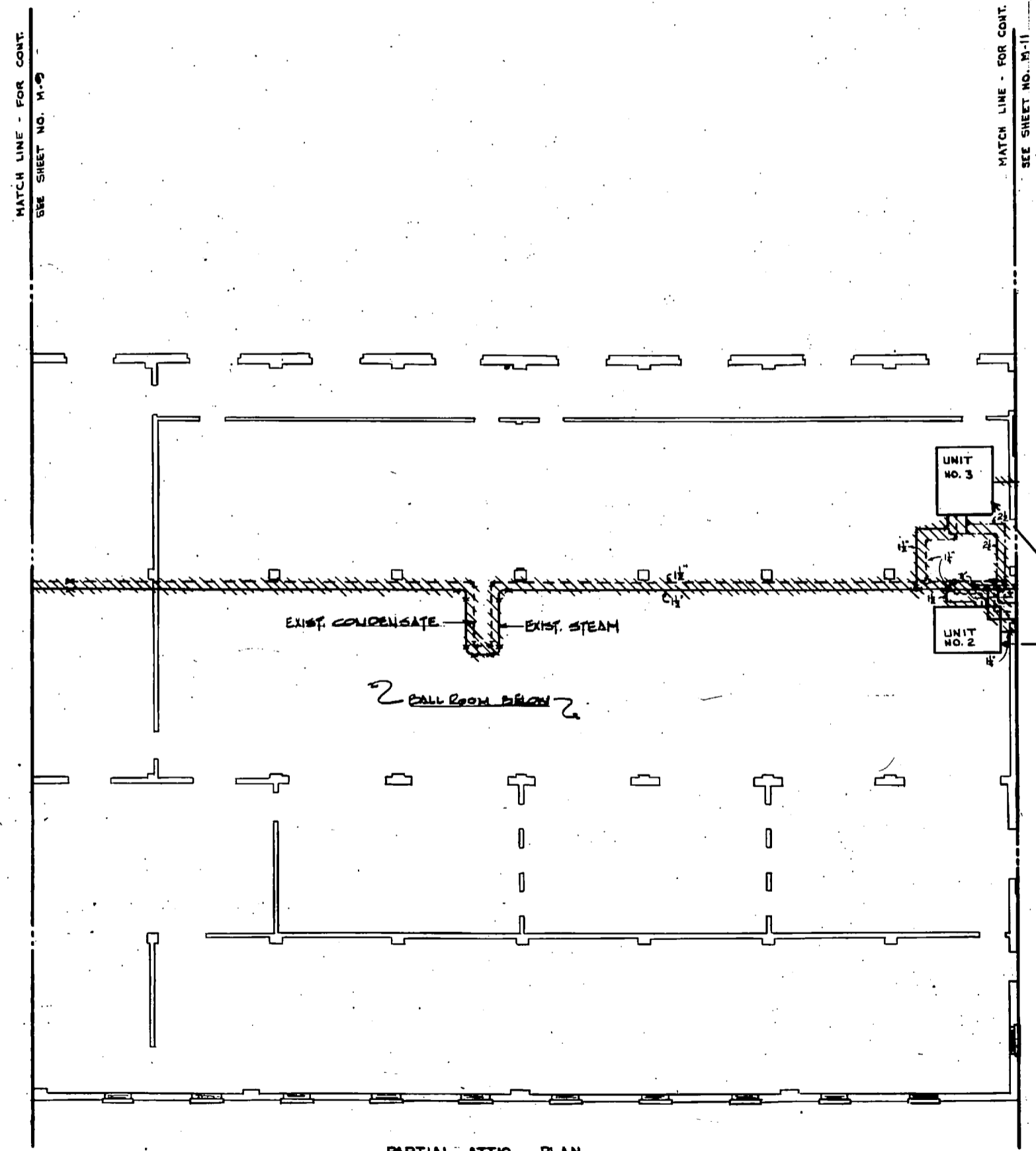


PARTIAL ATTIC PLAN
 SCALE: 1/8" = 1'-0"



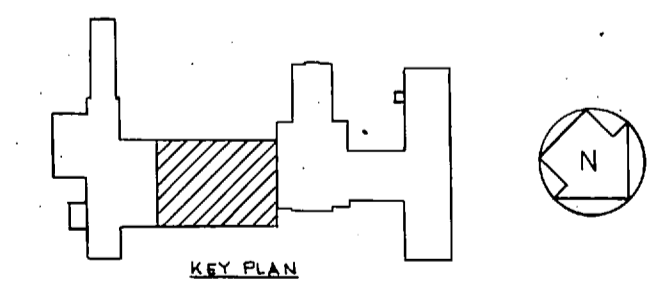
RSNSC JOB NO. 5-048-18 RSNSC DWG. NO. 72-6-5-20 SEAL: [Professional Engineer Seal for J. P. ...]		INOONANI GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS PROJ. MGR. KIDD CH ENGR 2010		DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C.	
APPROVED: [Signature] OFFICER IN CHARGE		DATE: 4/22/77 Dwg. No. 72-6-5-20		M-9 REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG. 2615 DEMOLITION - PIPING ATTIC PLAN SHEET 1 OF 3	
APPROVED: [Signature] SUPERVISOR		DATE: 4/22/77		SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 4030260	
FOR SUBMITTAL, NAVFAC		SCALE AS NOTED		CONSTR. CONTR. NO. N62470-77-B-2563 SPEC. 05-77-2563 SHEET 20 OF 42	

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

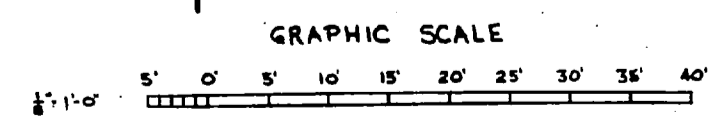


Note:
 1- FOR LEGEND SEE SHEET NO. H-1
 2- REMOVE EXISTING PIPE TO MAKE WAY FOR NEW DUCTWORK

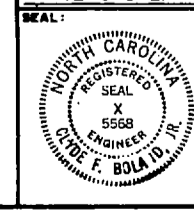
NOTE:
 SEE DEMOLITION SCHEDULE.
 DWG. M-9.



PARTIAL ATTIC PLAN
 SCALE: 1/8" = 1'-0"



RSNSC JOB NO. 6-048-18		DEPARTMENT OF THE NAVY		NAVAL FACILITIES ENGINEERING COMMAND	
RSNSC DWG. NO. 72-6-5-21		GREENVILLE, SOUTH CAROLINA		ATLANTIC DIVISION	
ENGINEERS & ARCHITECTS		NAVAL STATION		NAVAL STATION	
DESIGNED BY: [Signature]		MARINE CORPS BASE		CAMP LEJEUNE, N.C.	
CHECKED BY: [Signature]		REPLACE HEATING AND AIR CONDITIONING		COM (O) BLDG. 2515	
APPROVED BY: [Signature]		DEMOLITION - PIPING		ATTIC PLAN SHEET 2 OF 3	
DATE: 11/77		SIZE: F		CODE IDENT NO.: 4030281	
OFFICE: [Signature]		80091		NAVYAC DRAWING NO. 4030281	
SCALE: AS NOTED		CONSTR CONTR NO. 062470-77-B-2563		SHEET 21 OF 42	
SCALE: AS NOTED		SPEC: 06-77-2563		SHEET 21 OF 42	



1870

1871

1872

1873

1874

1875

1876

1877

1878

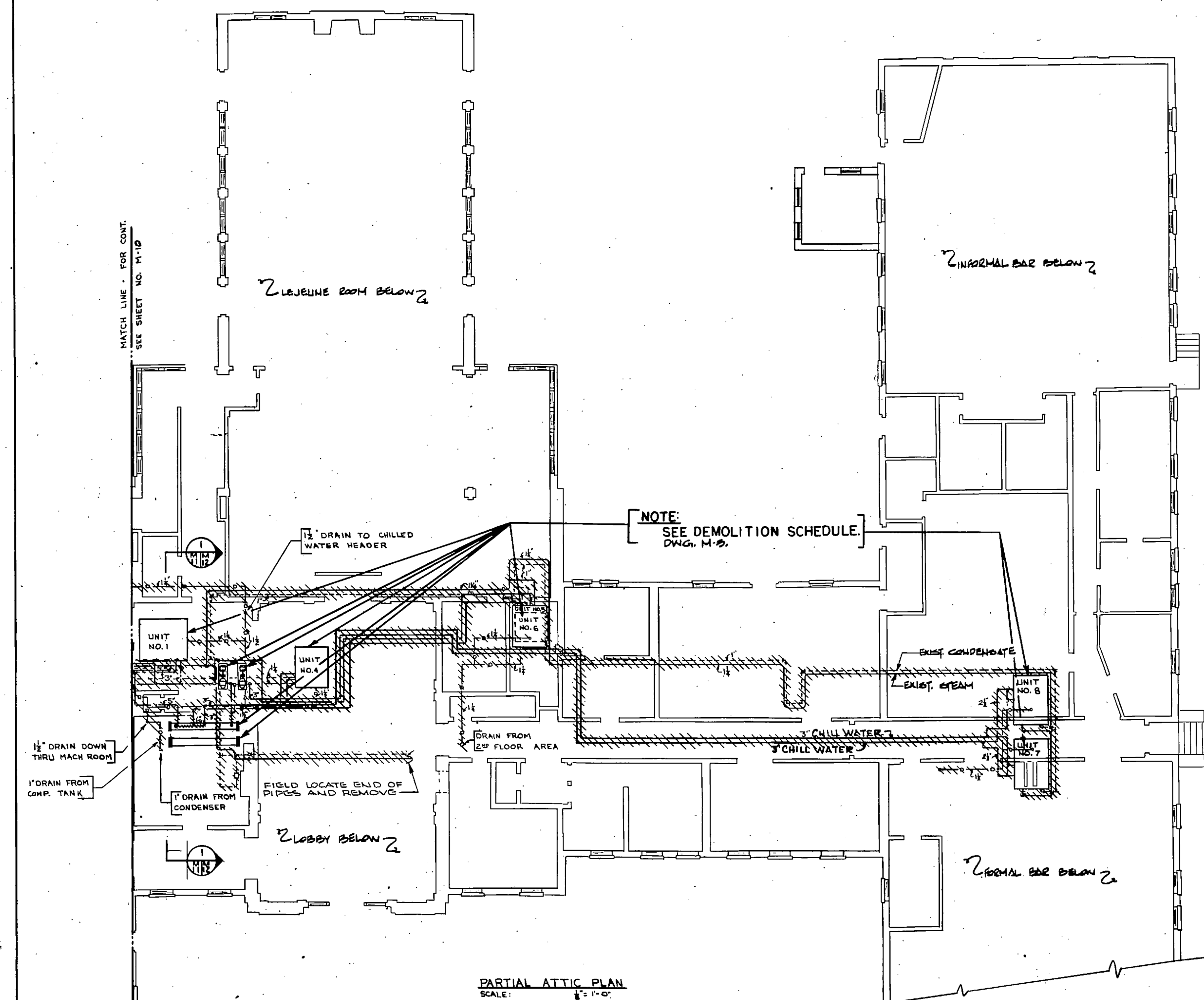
1879

1880

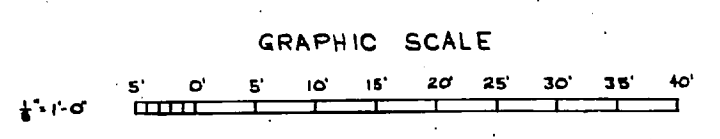
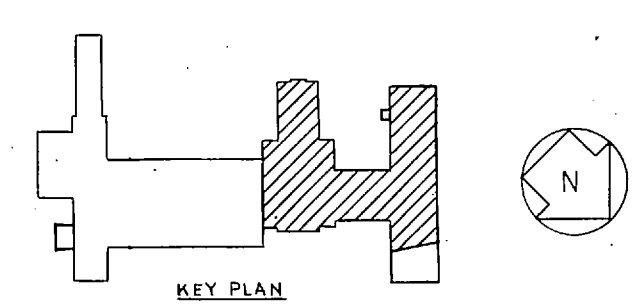
1881

1882

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

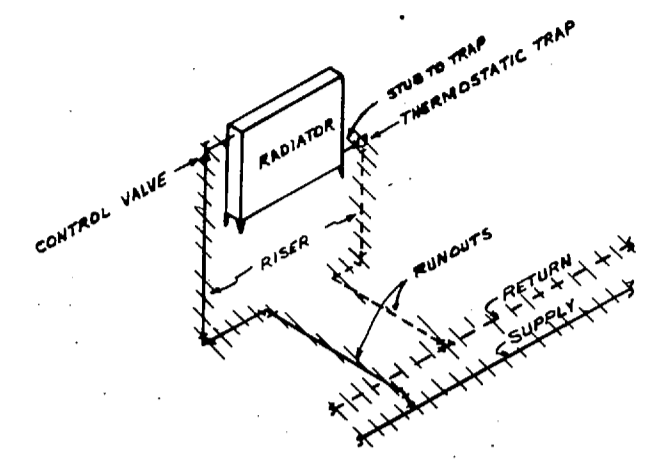


NOTE:
 1- FOR LEGEND SEE SHEET NO. M-1.
 2- REMOVE ALL EXISTING PIPE TO MAKE WAY FOR NEW DUCTWORK.

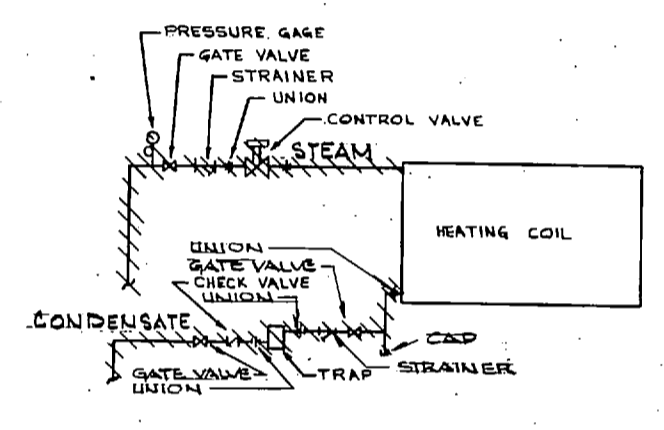


RSNSC JOB NO. 6-048-18		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
RSNSC DWG. NO. 72-6-5-22		ATLANTIC DIVISION	
PROJ. MGR. KDD CH ENGR BOYD		NAVAL STATION NORFOLK VIRGINIA	
DESIGNED BY DR VP DATE 11/27/72		NAVY CORP'S BASE CAMP LEJEUNE, N.C.	
CHECKED BY DR VP DATE 11/27/72		REPLACE HEATING AND AIR CONDITIONING	
NO. DIR 84K		COM (O), BLDG 2615	
APPROVED BY DR VP DATE 11/27/72		DEMOLITION - PIPING	
OFFICER IN CHARGE DATE 11/27/72		ATTIC PLAN SHEET 3 OF 3	
APPROVED DATE		SIZE	CODE IDENT NO. NAVFAC DRAWING NO.
1/2" FOR COMMAND, NAVFAC		F	80091 4030262
		SCALE AS NOTED	CONSTR CONTR NO. N62470-77-B-2563
			SHEET 22 OF 42

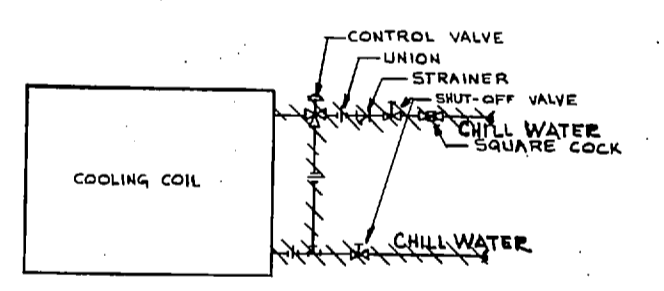
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



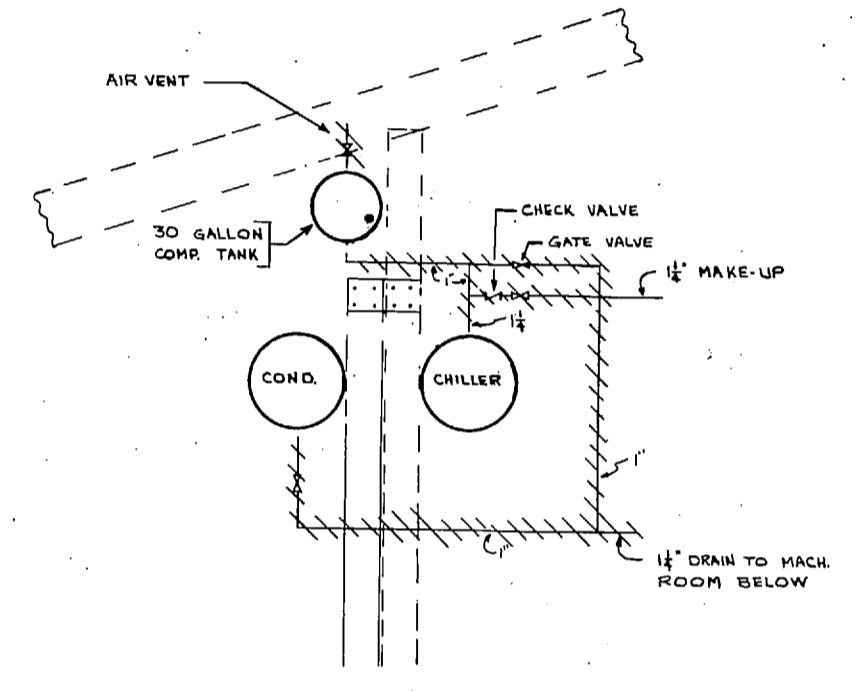
TYPICAL RADIATOR CONNECTIONS
NOT TO SCALE



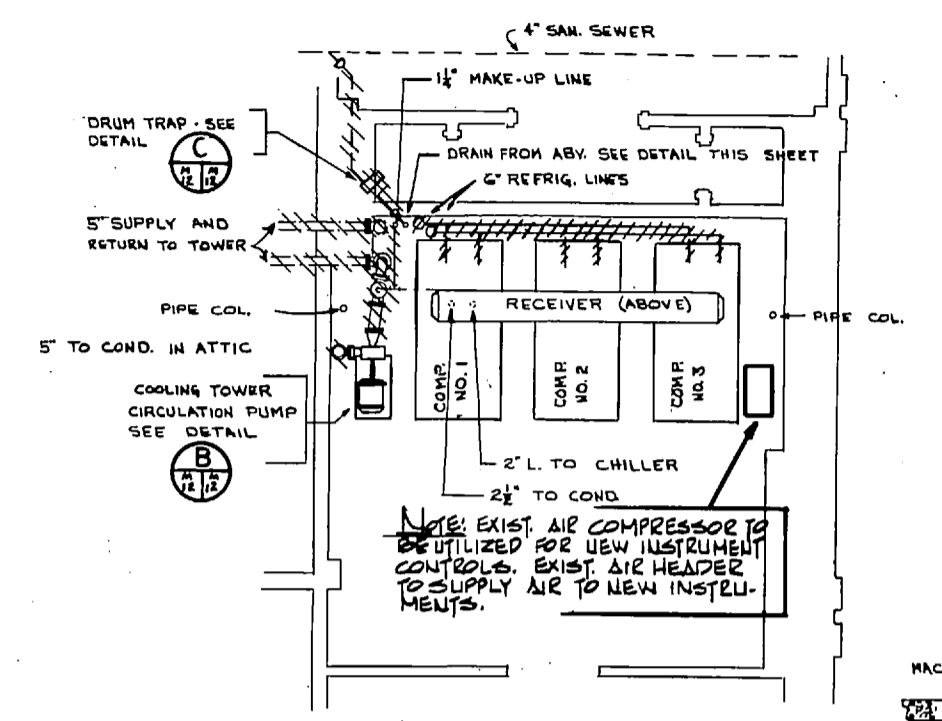
TYPICAL HEATING COIL CONNECTION
NOT TO SCALE



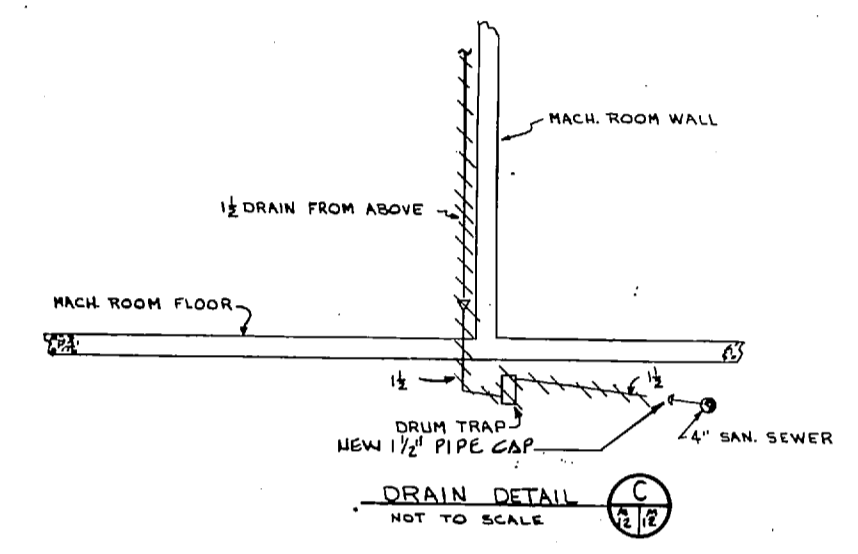
TYPICAL COOLING COIL CONNECTION
NOT TO SCALE



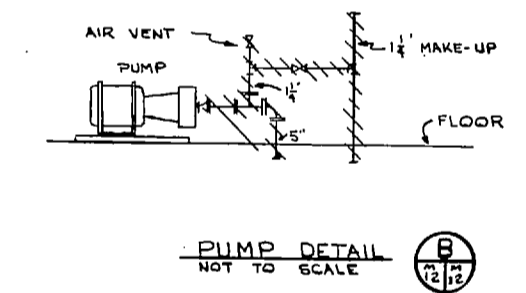
DETAIL A
SCALE: 1/2" = 1'-0"



MECH. EQUIP. ROOM
SCALE: 1/2" = 1'-0"

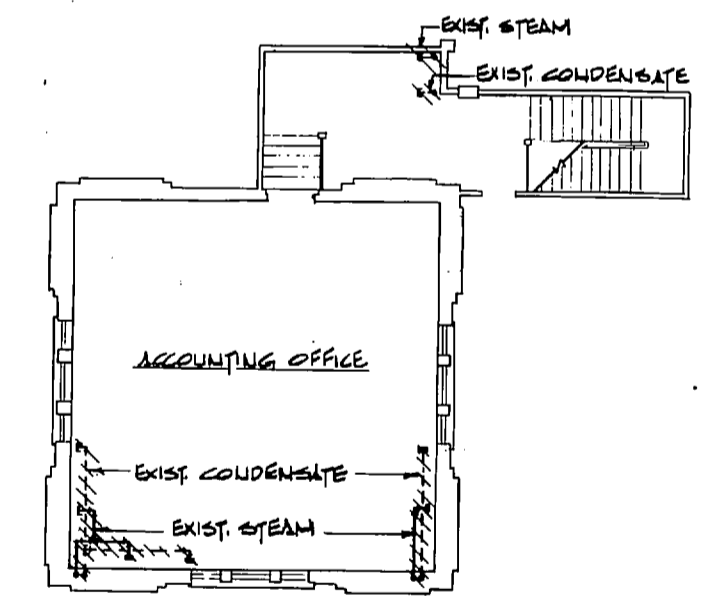


DRAIN DETAIL C
NOT TO SCALE

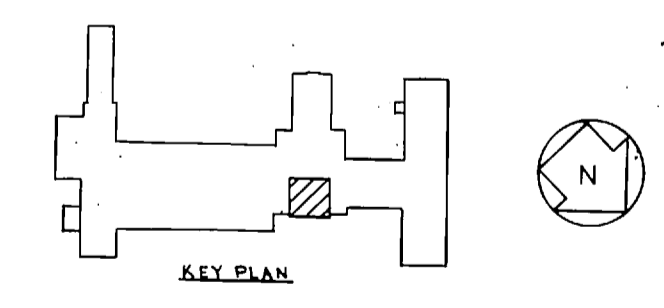


PUMP DETAIL B
NOT TO SCALE

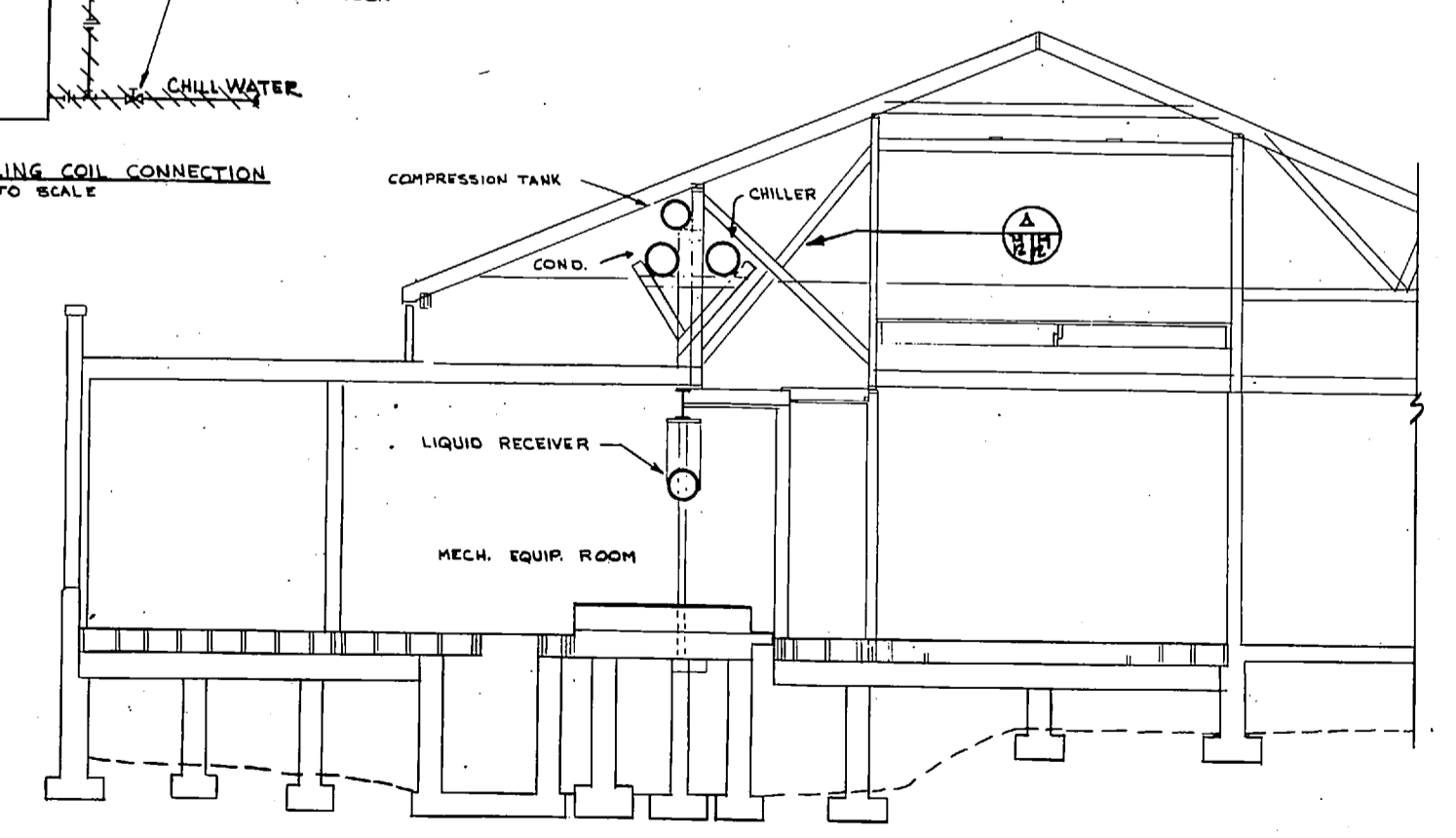
NOTES:
1- FOR LEGEND SEE SHEET NO. M-1
2- ALL EQUIPMENT ON THIS SHEET TO BE REMOVED (UNLESS NOTED OTHERWISE) SEE DEMOLITION SCHEDULE ON DWG. M-3
3- REMOVE PIPE AS NOTED BY CROSS HATCHING



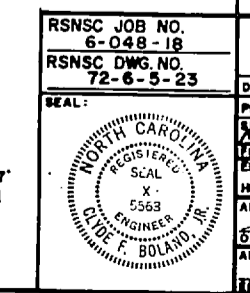
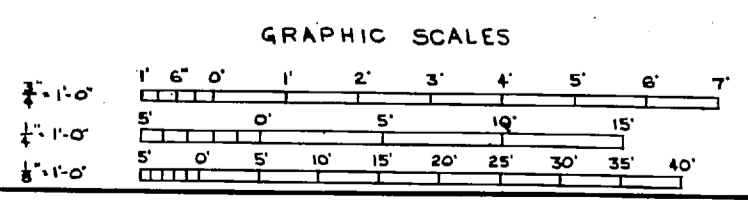
SECOND FLOOR PLAN
SCALE: 1/2" = 1'-0"



KEY PLAN



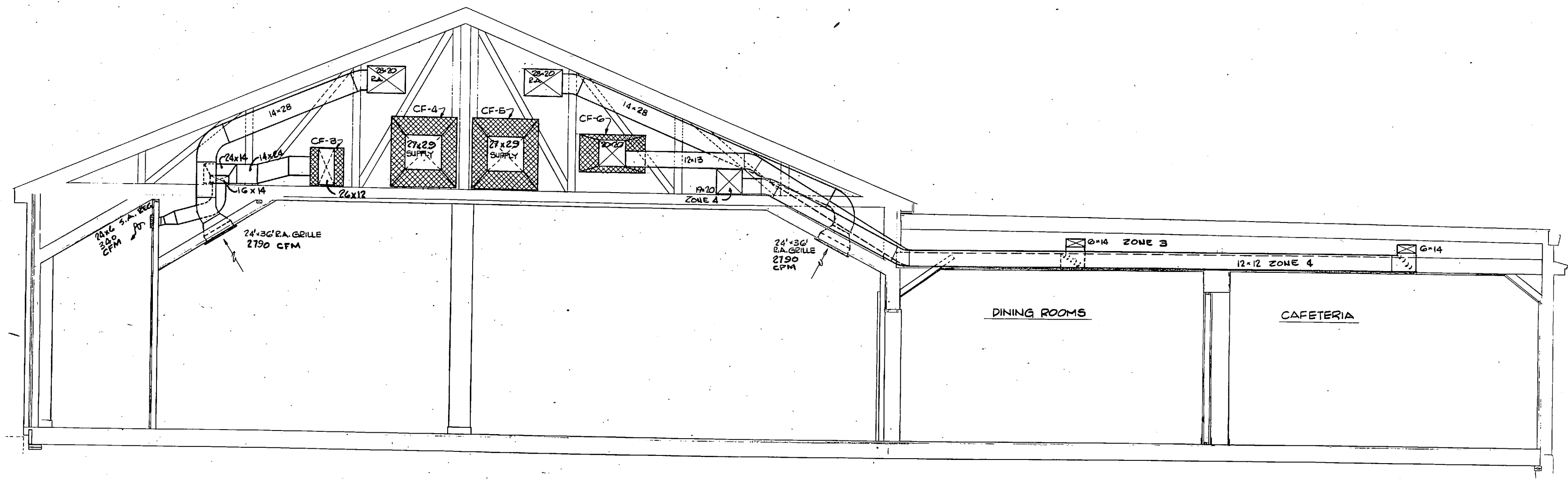
SECTION I
SCALE: 1/2" = 1'-0"



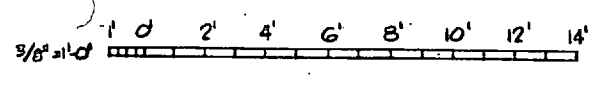
RSNSC JOB NO. 6-048-18 RSNSC DWG. NO. 72-6-5-23		M-12	
INOONANI GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DESIGNED BY: CHAS. H. BOYD PROJECT: MR. KIDD CH. ENGR. BOYD DRAWN BY: J. P. BOYD CHECKED BY: J. P. BOYD DATE: 11/17/72 OFFICE IN CHARGE: J. P. BOYD FOR THE COMMANDER, NAVFAC		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA NAME: CORPS BASE CAMP LEJEUNE, N.C. REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG 2615 DEMOLITION-PIPING & EQUIPMENT SECOND FLOOR PLAN & DETAILS SIZE: CODE IDENT NO.: NAVFAC DRAWING NO.: F 80091 4030263 CONSTR. CONTR. NO.: N62470-77-B-2563 SPEC. 05-77-2563 SHEET 23 OF 42 SCALE AS NOTED	

[Faint, illegible text, likely bleed-through from the reverse side of the page]

REVISIONS		
SYM	DESCRIPTION	DATE APPROVED



SECTION 3
SCALE: 3/8" = 1'-0"

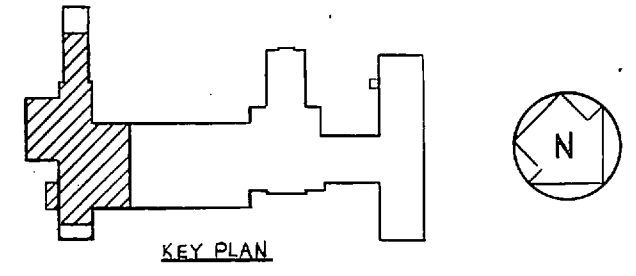
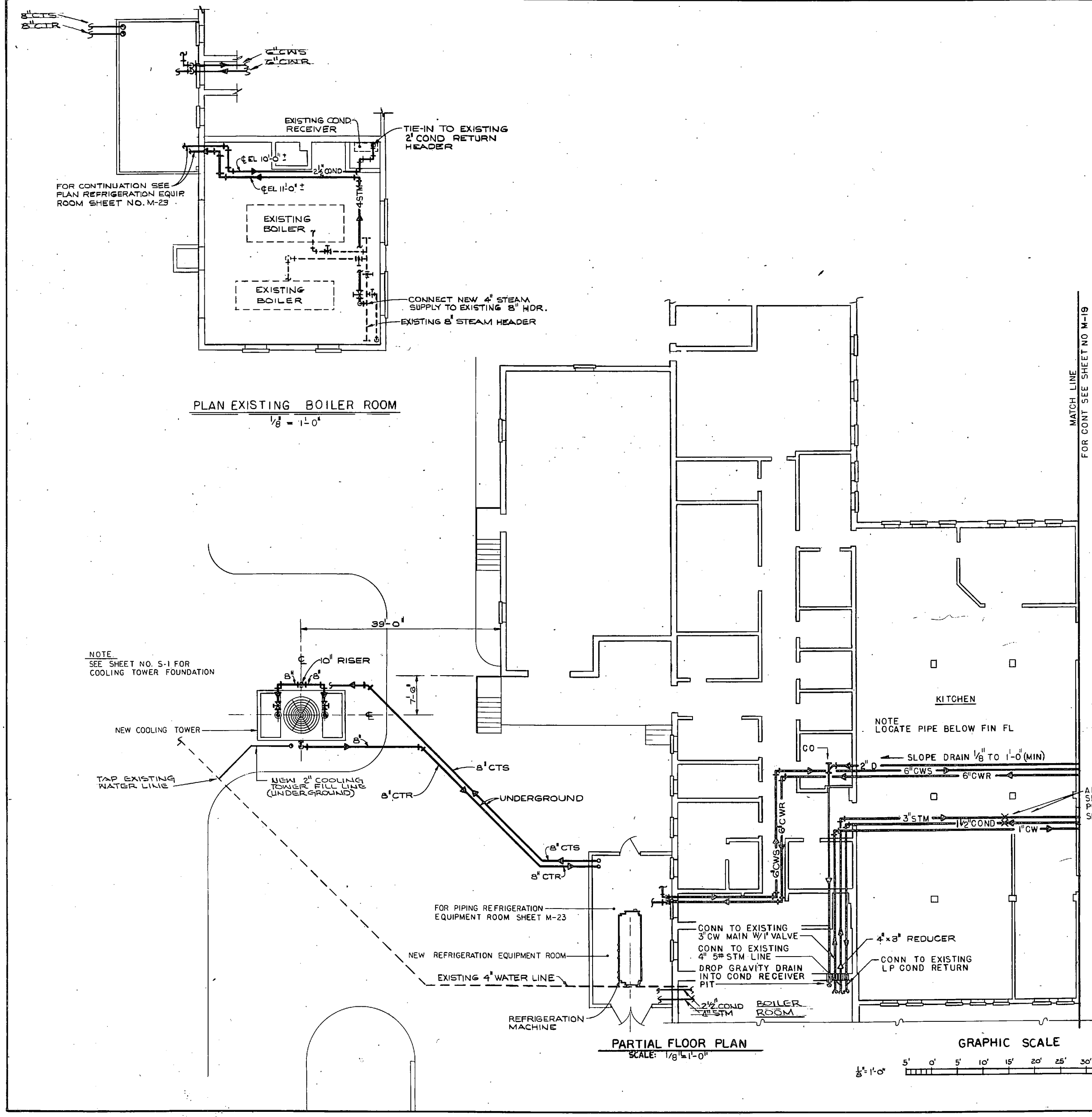


RSNSC JOB NO. 6-048-18		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
RSNSC DWG. NO. 72-6-4-28		ATLANTIC DIVISION	
DR. GREENVILLE, SOUTH CAROLINA		NAVAL STATION	
ENGRS. & ARCHTS.		MARINE CORPS BASE	
DR. CUNNINGHAM		CAMP LEJEUNE, N.C.	
REPLACE HEATING AND AIR CONDITIONING			
COM (O), BLDG. 2615			
HVAC SECTIONS & DETAILS			
SHEET 2 OF 2			
PROJ. MGR. K. WOOD	ENGR. J. B. WOOD	SIZE	CODE (IDENT. NO.)
DATE: 11/27/72	DATE: 11/27/72	F	80091
OFFICE: 11/27/72	OFFICE: 11/27/72	NAVAC DRAWING NO.	4 030 268
APPROVED: [Signature]	DATE: 11/27/72	CDR/ETC. CONTR. NO.	NS 2070-77-B-2563
FOR THE COMMANDANT	BY: [Signature]	SCALE AS NOTED	SPEC 07-2863 SHEET 28 OF 42

M-17

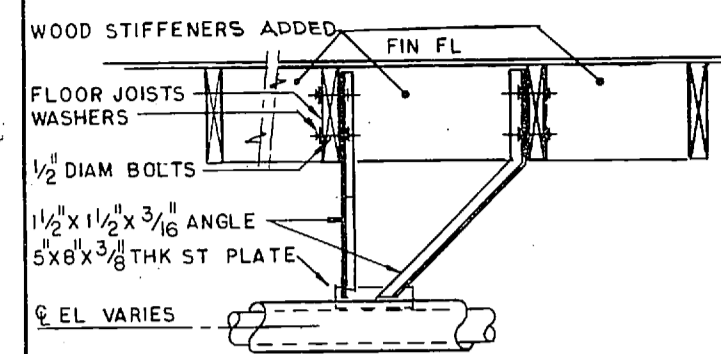
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

NOTES
 1 FOR LEGEND SEE SHEET M-1
 2 FOR HANGER DETAILS SEE DWG M-19

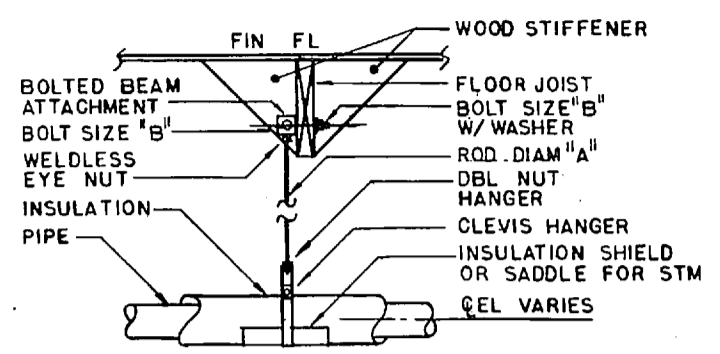


RSNSC JOB NO. 6-048-18	NOONAN GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	M-18
RSNSC DWG NO. 72-6-5-29	DRSDF L ELMEN CDR USN	ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, NC.	
PROJ. MGR. KIDDER ENR BOYD	APPROVED BY 11/2/77 DIR. WNR	REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG 2615 UNDERGROUND & UNDERFLOOR PIPING PARTIAL PLAN & DETAILS	
SEAL: [Professional Engineer Seal]	DATE: 11/2/77	SIZE: F CODE IDENT NO.: 80091	NAVFAC DRAWING NO.: 4030269
		CONSTR CONTR NO.: N62470-77-B-2563	SHEET 29 OF 42

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



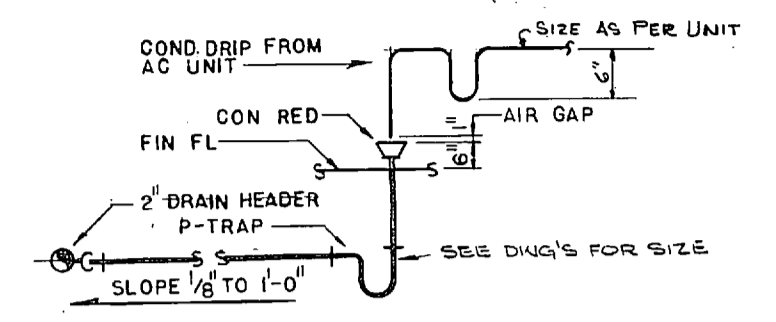
NOTE
SEE ANCHOR POINTS THIS SHEET & SHEET NO M-18



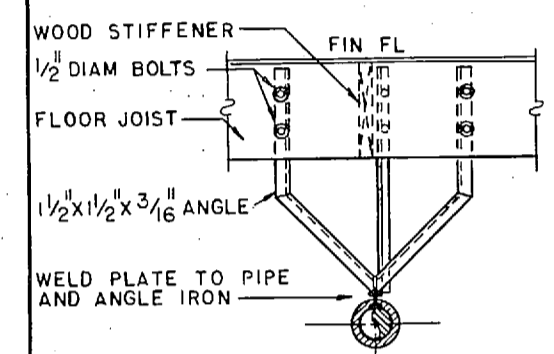
INSULATED PIPE HANGER DETAIL
NOT TO SCALE

IPS	A	B	MAX SPAN
3/4	3/8	1/2	7'-0"
1	3/8	1/2	7'-0"
1 1/2	3/8	1/2	9'-0"
2	3/8	1/2	10'-0"
3	1/2	5/8	12'-0"
4	5/8	3/4	14'-0"
6	3/4	7/8	17'-0"

HANGER SPACING TABLE



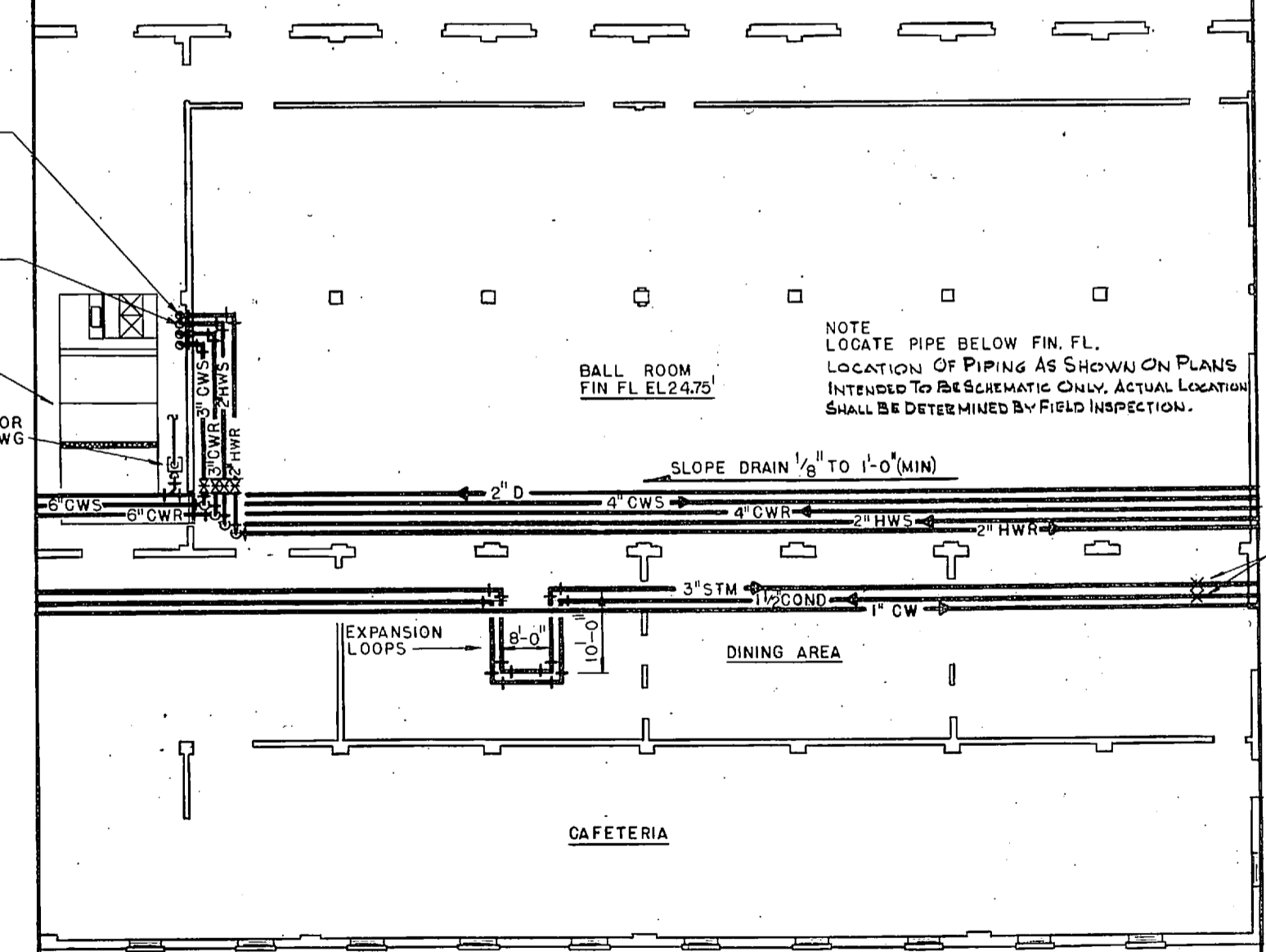
COND. DRAIN FOR AC UNITS
NOT TO SCALE



FRONT ELEVATION
STM & COND PIPE ANCHOR DET
NOT TO SCALE

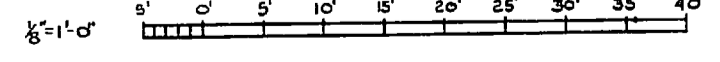
MATCH LINE
FOR CONT SEE SHEET NO M-18

MATCH LINE
FOR CONT SEE SHEET NO M-20

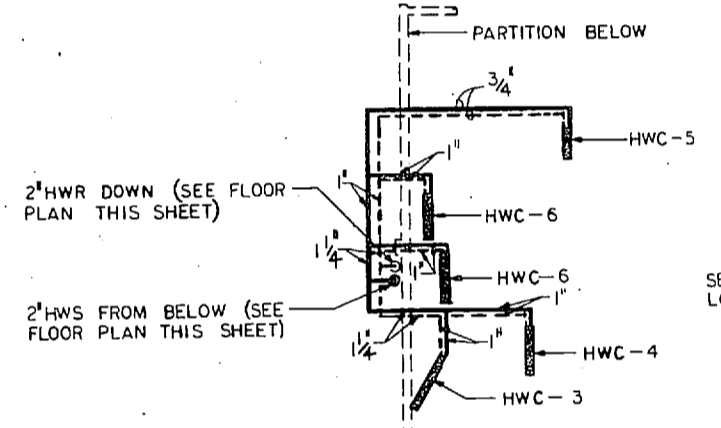


PARTIAL FLOOR PLAN
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE

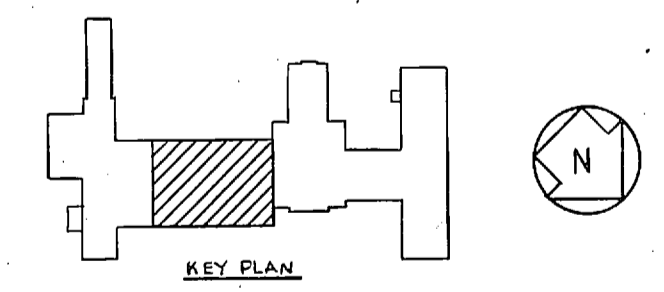


NOTE:
1. FOR LEGEND SEE SHEET NO M-1



PARTIAL ATTIC PLAN
SCALE: 1/8" = 1'-0"

SEE SHEET NO. M 13 FOR LOCATION OF COILS

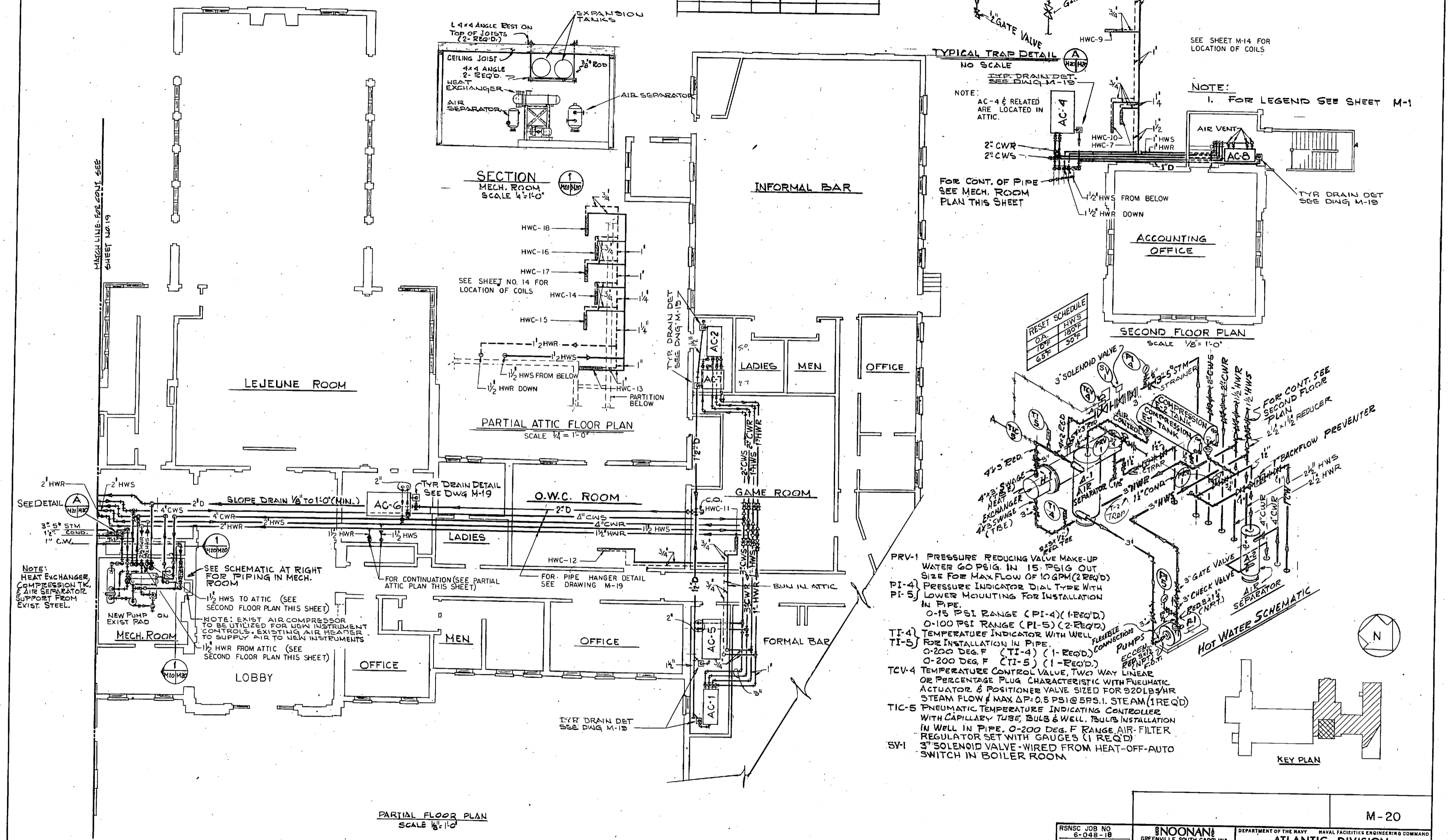


RSNSC JOB NO. 6-048-18	NOONAN GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION WORFOLK, VIRGINIA
RSNSC DWG NO. 72-6-5-30	DESIGNED BY PROJ. MGR. KIDDEN ENGR. BOYD	MARINE CORPS BASE CAMP LEJEUNE, N. C.
SEAL: [Signature]	DATE 11/27/77	REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG 2615 UNDERFLOOR PLAN PARTIAL PLAN
APPROVED BY [Signature]	DATE 11/27/77	SIZE F 80091
OFFICER IN CHARGE [Signature]	DATE 11/27/77	NAVAFAC DRAWING NO. 4030270
BY FOR COMMANDER, NAVFAC	SCALE AS NOTED	CONSTA CONTR NO. N62470-77-B-2563 SPEC 05-77-2563 SHEET 30 OF 42

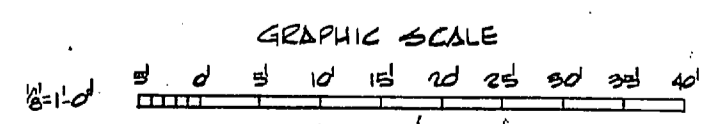
M-19

STEAM TRAP SCHEDULE			
TRAP CAPACITY	Δ P	TYPE	
T-1 200 GPH	3 PSI	F&T	
T-2 200 GPH	3 PSI	F&T	
T-3 200 GPH	3 PSI	F&T	
T-4 3000 GPH	12 PSI		

REVISIONS		
SYM	DESCRIPTION	DATE APPROVED

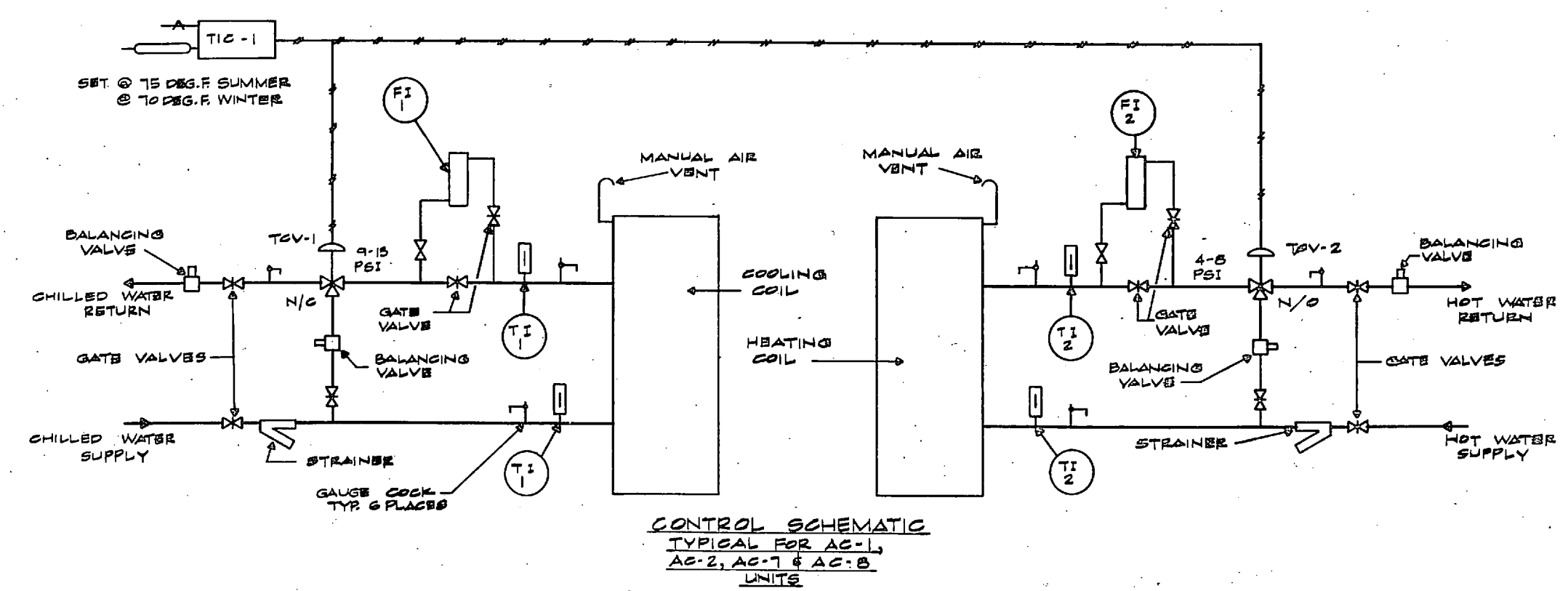


- PRV-1 PRESSURE REDUCING VALVE MAKE-UP WATER GO PSIG. IN 15 PSIG OUT. SEE FOR MAX FLOW OF 10 GPM (2 REQ'D)
- PI-4 PRESSURE INDICATOR DIAL TYPE WITH LOWER MOUNTING FOR INSTALLATION IN PIPE. 0-15 PSI RANGE (PI-4) (1-REQ'D)
- PI-5 PRESSURE INDICATOR DIAL TYPE WITH LOWER MOUNTING FOR INSTALLATION IN PIPE. 0-100 PSI RANGE (PI-5) (2-REQ'D)
- TI-4 TEMPERATURE INDICATOR WITH WELL FOR INSTALLATION IN PIPE. 0-200 DEG. F (TI-4) (1-REQ'D)
- TI-5 TEMPERATURE INDICATOR WITH WELL FOR INSTALLATION IN PIPE. 0-200 DEG. F (TI-5) (1-REQ'D)
- TCV-4 TEMPERATURE CONTROL VALVE, TWO WAY LINEAR OR PERCENTAGE PLUG CHARACTERISTIC WITH PNEUMATIC ACTUATOR & POSITIONER VALVE. SIZED FOR 820 LB/HR STEAM FLOW & MAX ΔP: 0.5 PSI @ 585.1 STEAM (1 REQ'D)
- TIC-5 PNEUMATIC TEMPERATURE INDICATING CONTROLLER WITH CAPILLARY TUBE BULB & WELL. BULB INSTALLATION IN WELL IN PIPE. 0-200 DEG. F RANGE AIR-FILTER REGULATOR SET WITH GAUGES (1 REQ'D)
- SV-1 3" SOLENOID VALVE - WIRED FROM HEAT-OFF-AUTO SWITCH IN BOILER ROOM.



RSNSC JOB NO C-042-18	RSNSC DWG NO 72-B-5-31	NOONAN GREENVILLE SOUTH CAROLINA ENGINEERS & ARCHITECTS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C.
SEAL: [Signature]	DATE: 11/24/72	PROJ. MGR. K. D. ENR 8070	REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG. 265 UNDERFLOOR & MECHANICAL ROOM PIPING PARTIAL PLAN & DETAILS
APPROVED: [Signature]	DATE: 11/24/72	OFFICE IN CHARGE: [Signature]	SIZE: F 80091
DATE FOR COMMAND: 10/17/72	SCALE: AS NOTED	CONTR. CONTR. NO. N62470-77-B-2543	NAVAC DRAWING NO. 4030271
		SPEC: 05-77-2563	SHEET 31 OF 42

REVISIONS		
SYM	DESCRIPTION	DATE APPROVED

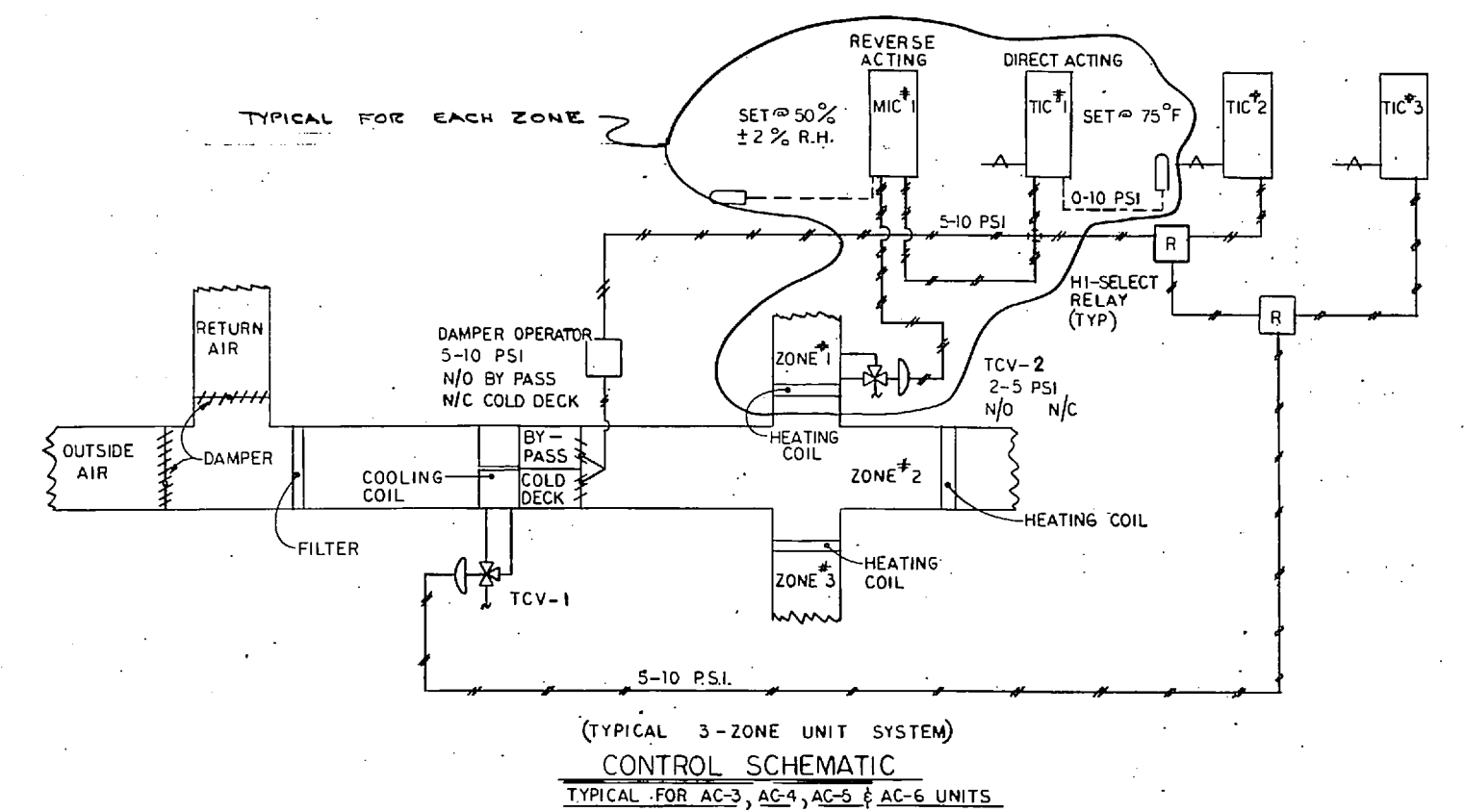


- NOTES:**
1. FOR DESCRIPTION FI-1 & FI-2, TI-1 & TI-2 AND TCV-1 & TCV-2 REFER TO TYPICAL PIPING DETAIL - COOLING COIL & HEATING COIL ON SHEET M-22
 2. EXISTING AIR COMPRESSOR LOCATED IN MECHANICAL EQUIPMENT ROOM TO PROVIDE INSTRUMENT AIR TO NEW INSTRUMENTS. INSTRUMENT AIR SUPPLY LINES TO BE TIED INTO EXISTING AIR HEADER.
 3. FOR LEGEND SEE SHEET M-1
 4. FOR LOCATION OF THERMOSTATS SEE SHEET M-13, M-14 & M-15.

SEQUENCE OF OPERATION:

TIC-1 TEMPERATURE INDICATING CONTROLLER DIRECT ACTING 3-15 PSIG OUTPUT, PROPORTIONAL CONTROL MODE, WITH AIR FILTER REGULATOR SET @ 0-20 PSIG GAUGE, 55 TO 85 PSIG. F RANGE, CONTROLLER TO INCLUDE SENSING ELEMENT AND TO BE SURFACE MOUNTED. CONTROLLER TO BE FURNISHED WITH PLASTIC COVER & LOCK.

UPON INCREASE IN ROOM TEMPERATURE OVER SET POINT, ROOM THERMOSTAT TIC-1 WILL MODULATE CHILLED WATER CONTROL VALVE TCV-1 TO INCREASE FLOW THROUGH COOLING COIL. UPON DECREASE IN ROOM TEMPERATURE BELOW SET POINT, ROOM THERMOSTAT TIC-1 WILL MODULATE HOT WATER CONTROL VALVE TCV-2 TO INCREASE FLOW THROUGH HEATING COIL.



SEQUENCE OF OPERATION:

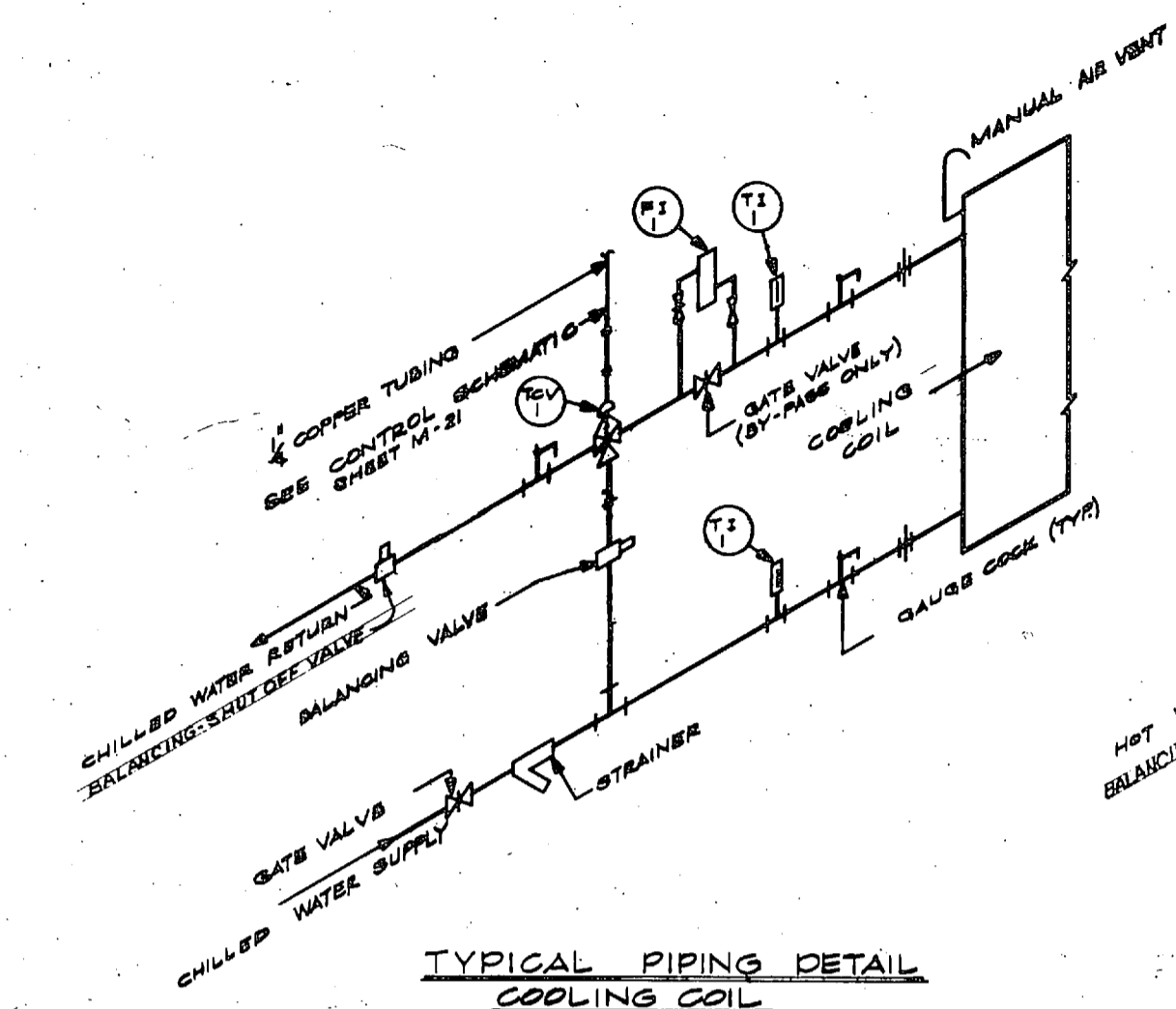
MIC-1 R.H. INDICATING CONTROLLER REVERSE ACTING 3-15 PSIG OUTPUT SURFACE MOUNTED, 20-100% R.H. RANGE PROP & INTEGRAL CONTROL MODES; WITH AIR FILTER REGULATOR SET @ 0-20 PSIG GAGE, SENSOR TO BE TEMP CONDENSATED.

UPON INCREASE IN TEMPERATURE ABOVE SET POINT ROOM THERMOSTAT TIC-1 WILL MODULATE DAMPER OPERATOR TO CLOSE BY-PASS DAMPER & OPEN COLD DECK DAMPER AND CLOSE HOT WATER CONTROL VALVE TCV-1. UPON FURTHER INCREASE IN TEMPERATURE TIC-1 WILL MODULATE TCV-1 TO OPEN MORE. MIC-1 WILL MODULATE TCV-1 WHEN RELATIVE HUMIDITY REACHES ABOVE SET POINT. UPON DECREASE IN TEMPERATURE BELOW SET POINT TIC-1 WILL MODULATE DAMPER OPERATOR TO CLOSE COLD DECK DAMPER AND OPEN BY-PASS DAMPER. UPON FURTHER DECREASE IN TEMPERATURE TIC-1 WILL MODULATE TCV-1 TO OPEN, RETURN & OUTSIDE AIR DAMPERS ARE CONTROLLED MANUALLY.

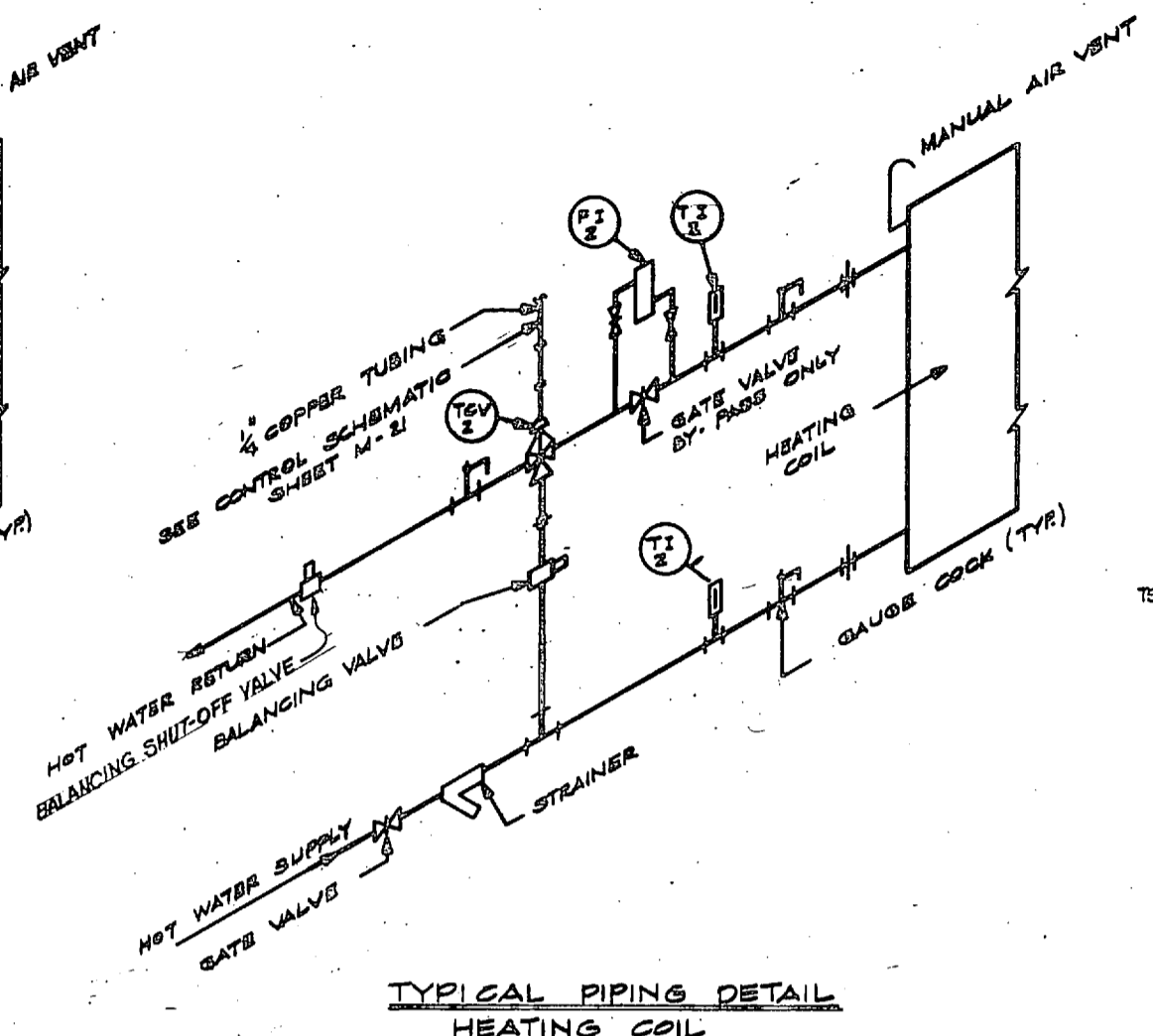
RSNSC JOB NO. 8-048-18 RSNSC DWG. NO. 72-8-4-32		INOONANI GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS PROJ. MGR. KIDDEN ENGR BOYD DESIGNER DE HEND CHK NILES CHECKED BY VP DATE 11/27/77 SCALE NONE		DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA MARINE CORPS BASE CAMP LEJEUNE, N.C. REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG, 2615 HVAC CONTROL SCHEMATICS	
SEAL:		APPROVED BY: [Signature]	DATE: 11/27/77	SIZE: F	CODE IDENT NO.: 80091
APPROVED BY: [Signature] OFFICER IN CHARGE DATE: 11/27/77 ETO FOR COMMANDER, NAVFAC		NAVY DRAWING NO.: 4 03 0272	CONSTR CONTR NO.: N62470-77-B-2563	SHEET 32 OF 42	

M-21

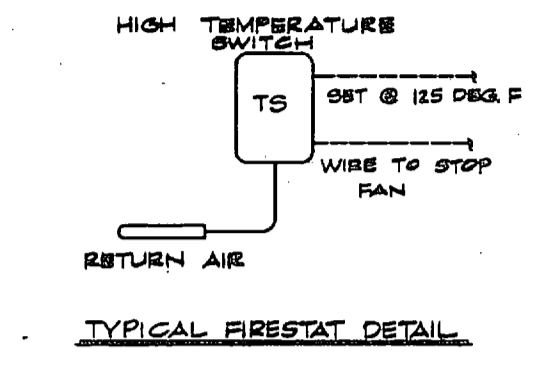
REVISIONS		
SYM	DESCRIPTION	DATE APPROVED



TYPICAL PIPING DETAIL
COOLING COIL



TYPICAL PIPING DETAIL
HEATING COIL



TS - TEMPERATURE SWITCH (FIRESTAT) 100-170 DEGREE F, 3PT CONTACT (0.5Amps MIN), 110 VAC, MANUAL RESET, CONTACTS TO OPEN ABOVE 125 DEGREE F (1 REQ'D FOR EACH ZONE). SWITCH LOCATED IN RETURN AIR DUCT TO UNIT STOPS UNIT FAN IF RETURN AIR RISES ABOVE 125 DEG. F

- NOTES:**
1. FOR LEGEND SEE SHEET M-1
 2. FOR FIRESTAT LOCATION SEE SHEET M-10, M-14 & M-15

TI-1 TEMPERATURE INDICATOR 0-100 DEG. F RANGE WITH WELL FOR INSTALLATION IN PIPE (2 REQ'D EACH).

FI-1 ROTAMETER TYPE, DIRECT READING FLOW INDICATOR (1 REQ'D EACH).
DESIGNED FOR:

MAX. GPM 108:	MAX. ΔP = 12" WC (AC - 1 UNIT)
MAX. GPM 92:	MAX. ΔP = 12" WC (AC - 2 UNIT)
MAX. GPM 167:	MAX. ΔP = 12" WC (AC - 3 UNIT)
MAX. GPM 75:	MAX. ΔP = 12" WC (AC - 4 UNIT)
MAX. GPM 26:	MAX. ΔP = 12" WC (AC - 5 UNIT)
MAX. GPM 46:	MAX. ΔP = 12" WC (AC - 6 UNIT)
MAX. GPM 14:	MAX. ΔP = 12" WC (AC - 7 UNIT)
MAX. GPM 8:	MAX. ΔP = 12" WC (AC - 8 UNIT)

TGV-1 TEMPERATURE CONTROL VALVE, THREE WAY LINEAR OR PERCENTAGE PLUS CHARACTERISTIC, WITH PNEUMATIC ACTUATOR, 3-10 PSIG. SIGNAL FROM DIRECT ACTING CONTROLLER (1 REQ'D EACH)

VALVE SIZE FOR:

MAX. FLOW 108 GPM, MAX. ΔP = 3 PSI (AC - 1 UNIT)
MAX. FLOW 92 GPM, MAX. ΔP = 2 PSI (AC - 2 UNIT)
MAX. FLOW 167 GPM, MAX. ΔP = 3 PSI (AC - 3 UNIT)
MAX. FLOW 75 GPM, MAX. ΔP = 2 PSI (AC - 4 UNIT)
MAX. FLOW 26 GPM, MAX. ΔP = 1 PSI (AC - 5 UNIT)
MAX. FLOW 46 GPM, MAX. ΔP = 2 PSI (AC - 6 UNIT)
MAX. FLOW 14 GPM, MAX. ΔP = 1 PSI (AC - 7 UNIT)
MAX. FLOW 8 GPM, MAX. ΔP = 1 PSI (AC - 8 UNIT)

TI-2 TEMPERATURE INDICATOR 100-200 DEG. F. RANGE WITH WELL FOR INSTALLATION IN PIPE (2 REQ'D EACH).

FI-2 ROTAMETER TYPE, DIRECT READING FLOW INDICATOR (1 REQ'D EACH).
DESIGNED FOR:

MAX. GPM 5:	MAX. ΔP = 12" WC (AC-1 & AC-2 UNIT)
MAX. GPM 19:	MAX. ΔP = 12" WC (AC-3 UNIT)
MAX. GPM 9:	MAX. ΔP = 12" WC (AC-4, AC-5, AC-7 AND AC-8 UNIT)
MAX. GPM 14:	MAX. ΔP = 12" WC (AC-6 UNIT)

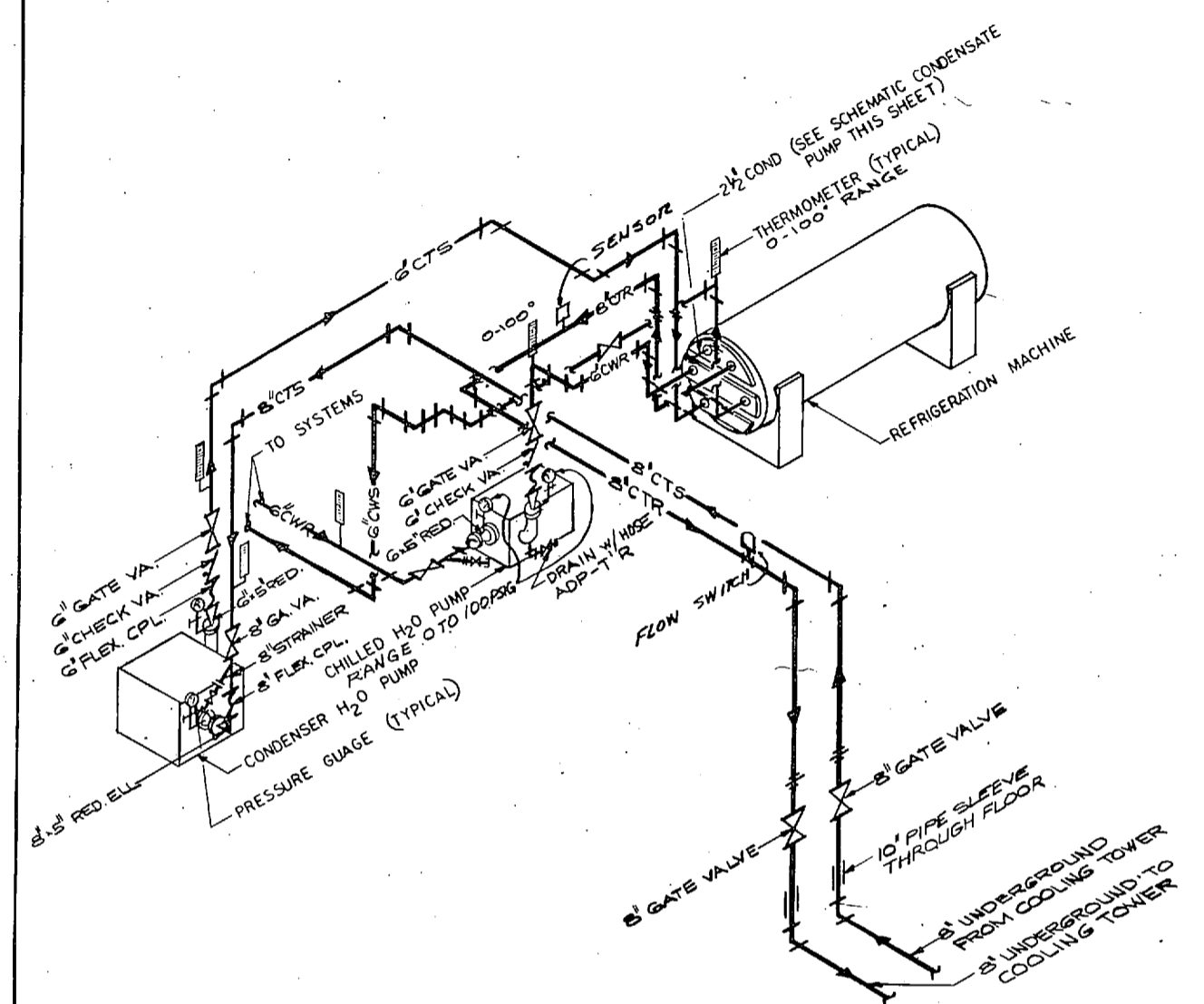
TGV-2 TEMPERATURE CONTROL VALVE, THREE WAY LINEAR OR PERCENTAGE PLUS CHARACTERISTIC, WITH PNEUMATIC ACTUATOR, 3-10 PSIG SIGNAL FROM DIRECT ACTING CONTROLLER (1 REQ'D EACH)

VALVE SIZE FOR:

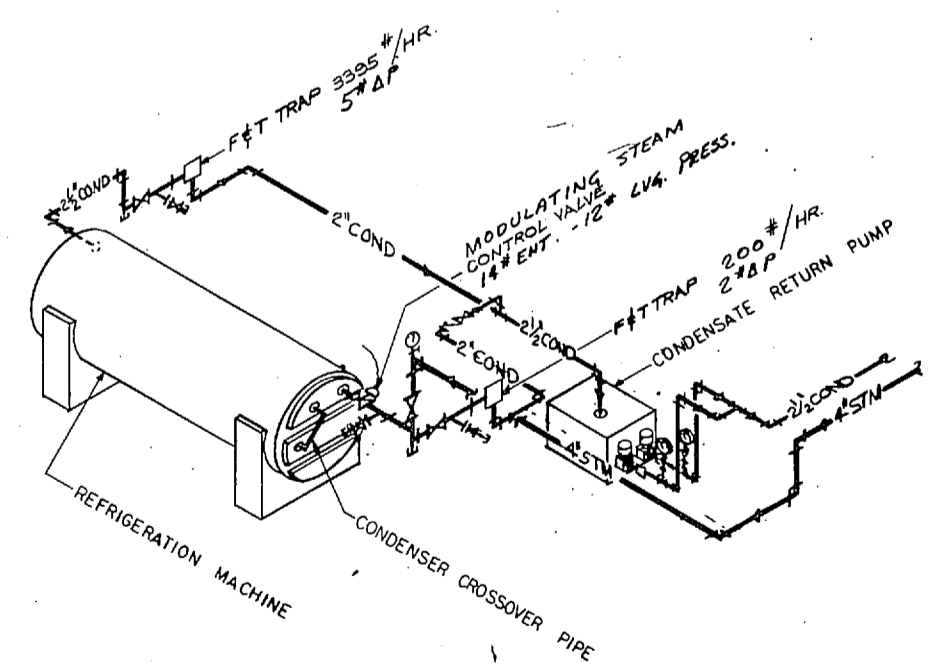
MAX. FLOW 5 GPM, MAX. ΔP = 1 PSI (AC-1 & AC-2 UNIT)
MAX. FLOW 19 GPM, MAX. ΔP = 1 PSI (AC-3 UNIT)
MAX. FLOW 9 GPM, MAX. ΔP = 1 PSI (AC-4, AC-5, AC-7 AND AC-8 UNIT)
MAX. FLOW 14 GPM, MAX. ΔP = 1 PSI (AC-6 UNIT)

RSNSC JOB NO. 6-048-18		M-22	
RSNSC DRG. NO. 72-6-4-33		INONANI ENGINEERS & ARCHITECTS	
SEAL: [Stamp]		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
PROJ. MURKIDD CR. ERIC BOYD		ATLANTIC DIVISION	
DRAWN BY: [Signature]		NAVAL STATION	
CHECKED BY: [Signature]		MARINE CORPS BASE	
DATE: 4/2/77		CAMP LEJEUNE, N.C.	
SCALE: NONE		REPLACE HEATING AND AIR CONDITIONING	
SIZE: F		COM (01), BLDG. 2615	
CODE IDENT. NO. 80091		HVAC COIL DETAILS & CONTROLS	
CONTR. CONTR. NO. 2470-77-B-2583		4030273	
SHEET 33 of 42		SPEC. 06-77-2583	

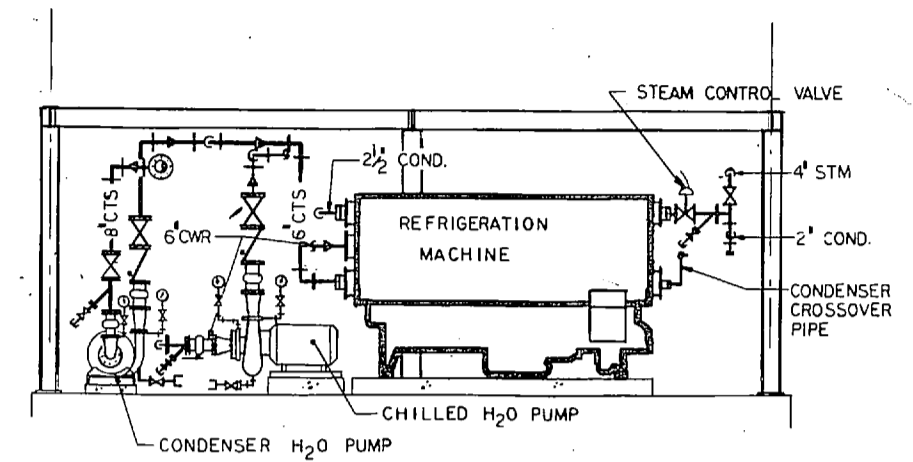
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



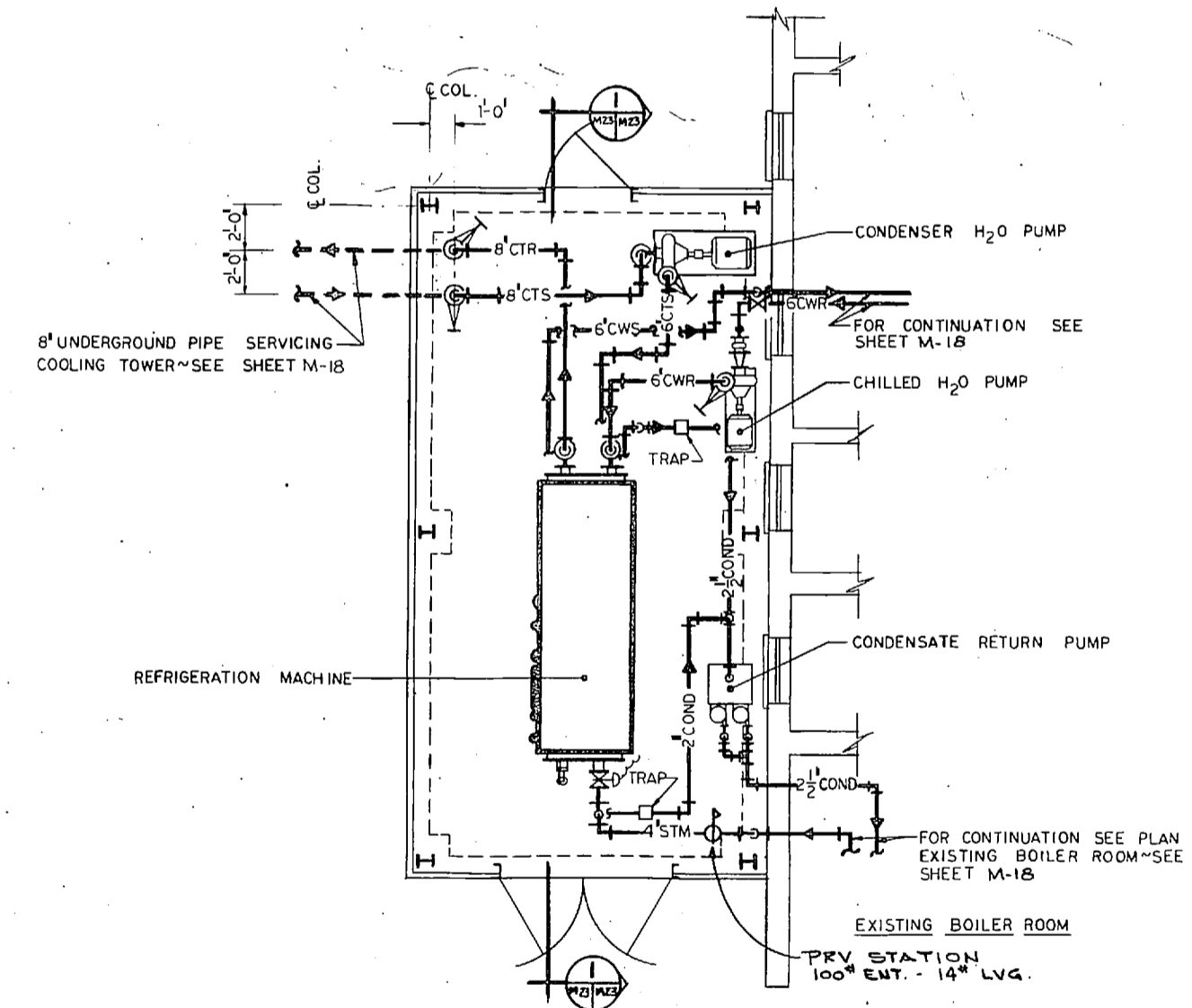
SCHMATIC REFRIGERATION EQUIPMENT ROOM
N.T.S.



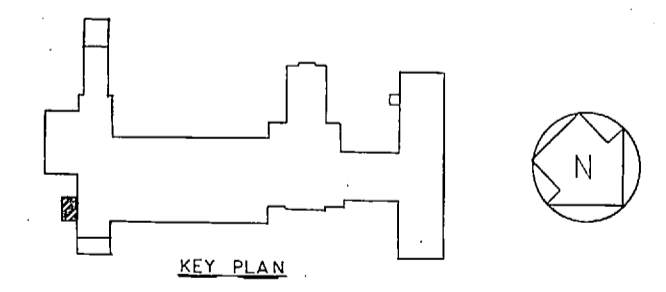
SCHMATIC CONDENSATE PUMP
N.T.S.



SECTION
1/4" = 1'-0"



PLAN REFRIGERATION EQUIPMENT ROOM
1/4" = 1'-0"



RSNSC JOB NO. 6-048-18		DEPARTMENT OF THE NAVY - NAVAL FACILITIES ENGINEERING COMMAND	
RSNSC DWG. NO. 72-6-5-43		ATLANTIC DIVISION	
SEAL:		NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C.	
DESIGNED BY: CH ENGR		REPLACE HEATING AND AIR CONDITIONING	
CHECKED BY: VP		COM (O), BLDG 2615	
DATE: 11/11/74		REFRIGERATION EQUIPMENT ROOM LAYOUT & DETAILS	
OFFICE IN CHARGE:		SIZE CODE IDENT NO. NAVFAC DRAWING NO.	
DATE: 11/11/74		F 80091 4030274	
BY:		CONSTR CONTR NO. N62470-77-B-2563	
DATE: 11/11/74		SCALE AS NOTED SPEC 05-77-2563 SHEET 34 OF 42	
BY:		EFD DWG. NO.	

M - 23

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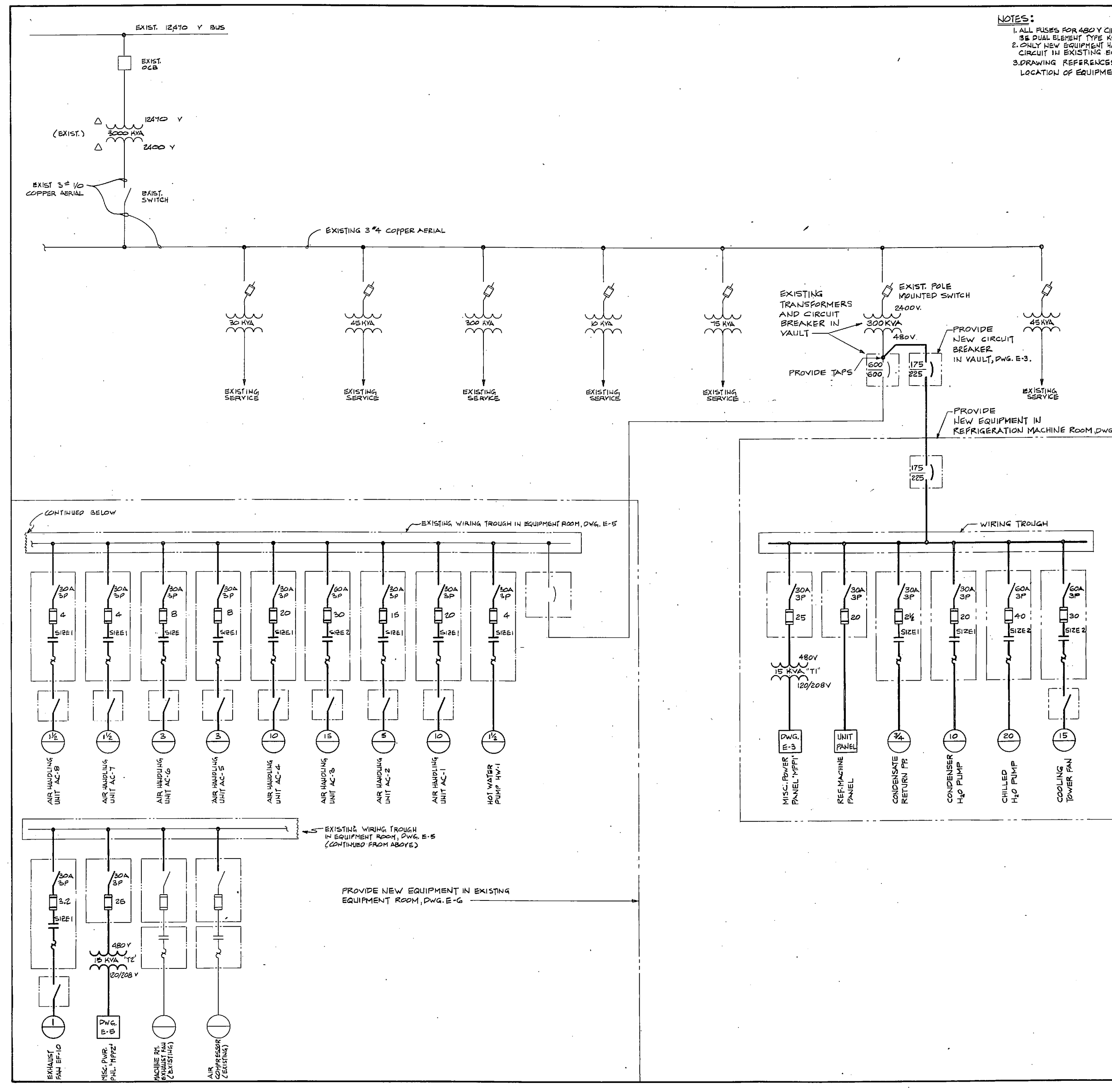
1901

1902

1903

1904

1905



NOTES:
 1. ALL FUSES FOR 480V CIRCUITS AND LOWER SHALL BE DUAL ELEMENT TYPE K5.
 2. ONLY NEW EQUIPMENT HAS BEEN SHOWN ON 480V CIRCUIT IN EXISTING EQUIPMENT ROOM.
 3. DRAWING REFERENCES GIVEN ARE FOR LOCATION OF EQUIPMENT.

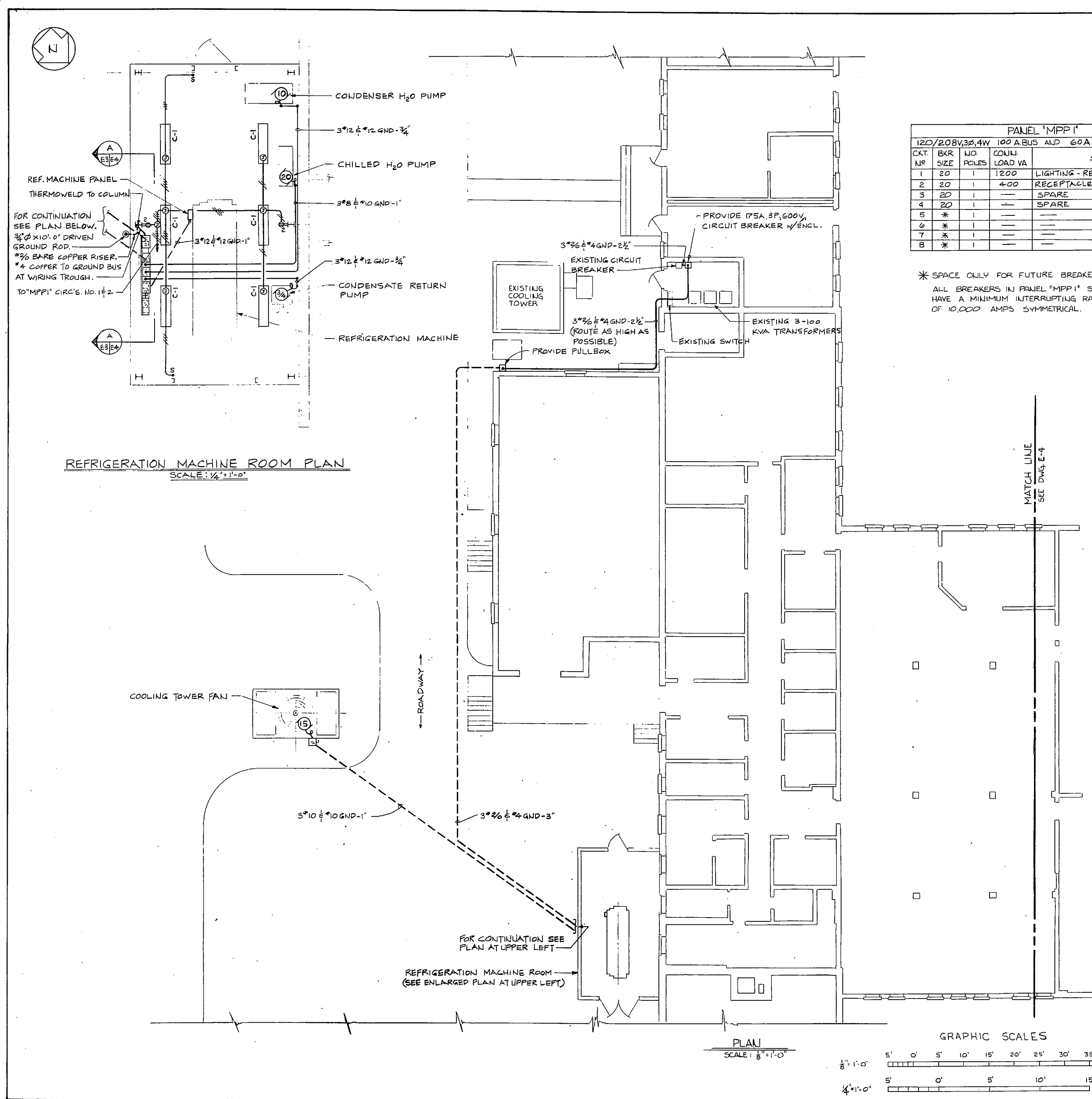
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

LEGEND

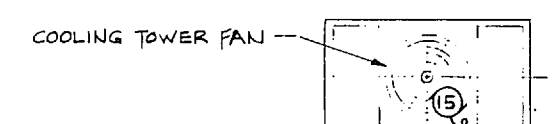
- TRANSFORMER
- NON-FUSED DISCONNECT SWITCH
- FUSED CUTOFF OR RISE MTD. SWITCH
- FUSE
- MAIN POWER OIL CIRCUIT BREAKER
- CIRCUIT BREAKER (1000 = TRIP RATING, 1200 = FRAME SIZE)
- CONTACTOR
- OVERLOAD UNIT
- MOTOR
- INDICATES EQUIPMENT ENCLOSURE OR OUTLINE
- INDICATES NEW WIRING
- INDICATES EXISTING WIRING

RSNSC JOB NO. 6-048-18		RSNSC DWG. NO. 77-9-3-34		E-1	
INOONANI GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DON HYDER, CHIEF, DON LEIGH PROJ. MGR. KIDD CH ENGR BOYD		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA MARINE CORPS BASE CAMP LEJEUNE, N.C. REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG. 2615 ELECTRICAL-ONE LINE DIAGRAM			
SUBMITTED BY: [Signature] DATE: 11/2/77 CHECKED BY: [Signature] DATE: 11/2/77 APPROVED BY: [Signature] DATE: 11/11/77 ETD FOR COMMANDER, NAVFAC		SIZE: F CODE IDENT NO.: 80091 SCALE: NONE	NAVFAC DRAWING NO.: 403 02 75 CONSTR CONTR NO.: N62470-77-B-2563 SHEET: 35 OF 42		

[The page contains extremely faint and illegible text, likely bleed-through from the reverse side of the document. The text is arranged in several paragraphs across the page.]



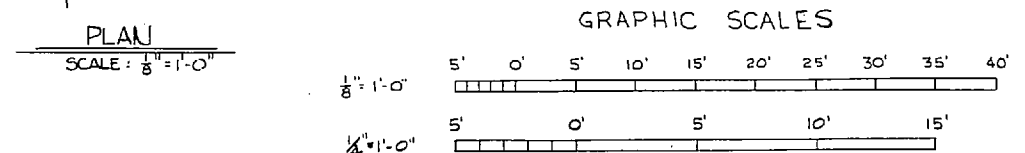
REFRIGERATION MACHINE ROOM PLAN
SCALE: 1/4" = 1'-0"



COOLING TOWER FAN

PANEL 'MPP1'				
120/208V, 3Ø, 4W	100 A BUS	AND	60 A MAIN	CIRCUIT BREAKER
CKT. NO.	BKR. SIZE	NO. POLES	CONDUIT LOAD VA	SERVING
1	20	1	1200	LIGHTING - REF. MACHINE ROOM
2	20	1	400	RECEPTACLES - REF. MACHINE ROOM
3	20	1	---	SPARE
4	20	1	---	SPARE
5	*	1	---	---
6	*	1	---	---
7	*	1	---	---
8	*	1	---	---

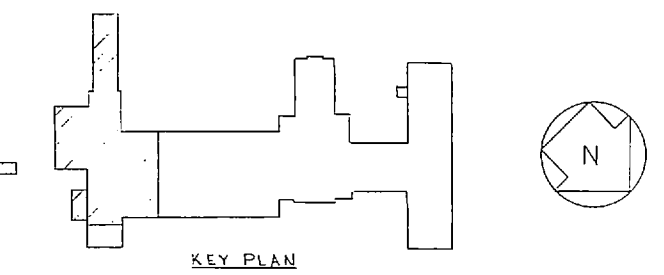
* SPACE ONLY FOR FUTURE BREAKERS.
ALL BREAKERS IN PANEL 'MPP1' SHALL HAVE A MINIMUM INTERRUPTING RATING OF 10,000 AMPS SYMMETRICAL.



REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED

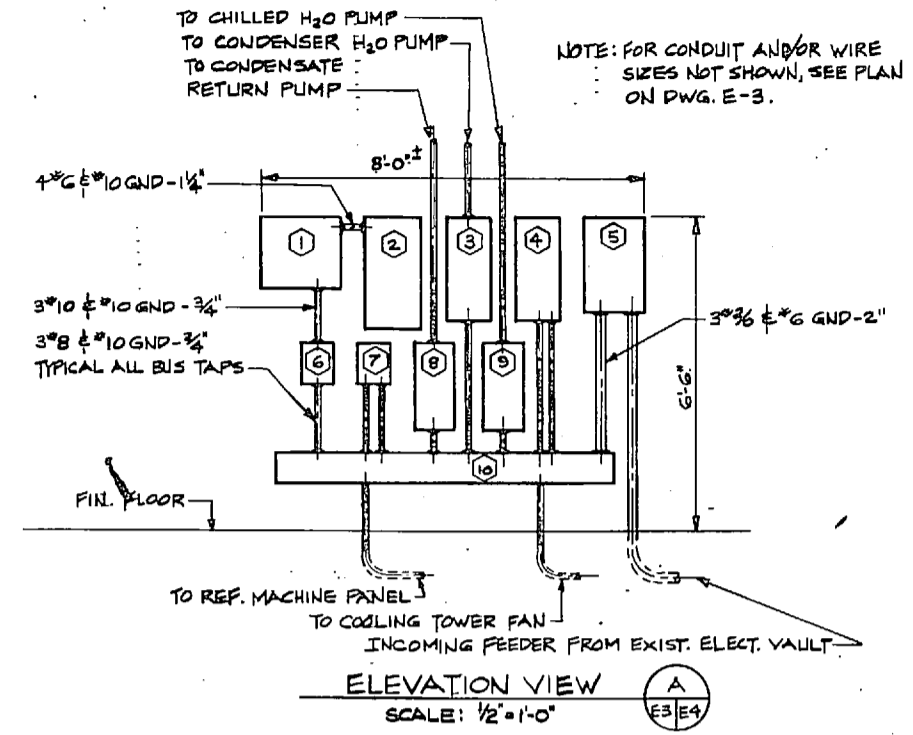
LEGEND	
SYMBOL	DESCRIPTION
	CONDUIT RUN CONCEALED IN WALL, CEILING OR EXPOSED IN ATTIC SPACE. 3\"/>
	CONDUIT RUN BELOW GRADE OR UNDER CONCRETE SLAB OR ROADWAY.
	JUNCTION BOX, SIZED FOR APPLICATION PER NEC.
	120/277 V. AC 20 AMP. SINGLE POLE SWITCH.
	125 V. 20 AMP. DUPLEX GROUNDING TYPE RECEPTACLE.
	NON-FUSED SAFETY SWITCH. 30 AMP. 3Ø UNLESS OTHERWISE NOTED.
	FUSED SAFETY SWITCH. 30 AMP. 3Ø UNLESS OTHERWISE NOTED.
	FUSIBLE COMBINATION, FULL VOLTAGE NON-REVERSING. TYPE STARTER, SIZE AND RATING PER NEC FOR APPLICATION.
	MANUAL MOTOR STARTER WITH OVERLOAD UNIT. SIZE AND RATING PER NEC TO SUIT APPLICATION.
	DRY TYPE TRANSFORMER. KVA RATING & VOLTAGE PER ONE LINE DIAGRAM.
	MOTOR 460V. 3Ø UNLESS OTHERWISE NOTED. NUMBER INDICATES HORSEPOWER.
	FLOW SWITCH.
	THERMO-ELECTRIC FIRE STOP DEVICE IN AIR DUCT.
	FLUORESCENT LIGHTING FIXTURE TYPE 'A' ON CIRCUIT 21. SEE FIXTURE SCHEDULE, DWG. E-4.
	FLEXIBLE CONDUIT CONNECTION AT EQUIPMENT (TYPICAL).
	CONDUIT RUN EXPOSED. HASH MARKS INDICATE QUANTITY OF NO. 12 AWG CONDUCTORS IN 3/4\"/>

NUMBER INDICATES SECTION
LETTER INDICATES ELEVATION OR DETAIL
SHEET NUMBER WHERE ELEVATION, SECTION OR DETAIL IS DRAWN
SHEET NUMBER WHERE ELEVATION, SECTION OR DETAIL IS DRAWN
ADDITIONAL SHEET REFERENCES
ELEVATION, SECTION, OR DETAIL SYMBOL



RSNSC JOB NO. 6-048-18	BNOONAN GREENVILLE SOUTH CAROLINA ENGINEERS & ARCHITECTS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	E-2
RSNSC DWG. NO. 72-5-2-36	DESIGNER: DR. RUDOLPHS, CHS. LEIGH PROJ. MGR. KIDD OR FINE, EBYD	NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C.	ATLANTIC DIVISION NORFOLK, VIRGINIA
SEAL	SUBMITTED BY: <i>[Signature]</i> DATE: 1/15/72 REV. 2/22/72 REV. 1/11/72	REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615 ELECTRICAL POWER PLAN SHEET 1 OF 4	SIZE: 4030276
APPROVED: <i>[Signature]</i> DATE: 1/15/72	OFFICE IN CHARGE: <i>[Signature]</i> DATE: 1/15/72	CONSTR. CONTR. NO. N62470-77-B-2563	NAVYAC DRAWING NO. 4030276
BY: <i>[Signature]</i> DATE: 1/15/72	FOR COMMANDER, NAVYAC	SCALE AS NOTED	SPEC 05-77-2563 SHEET 36 OF 42

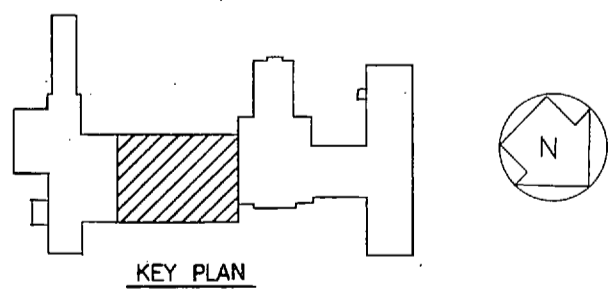
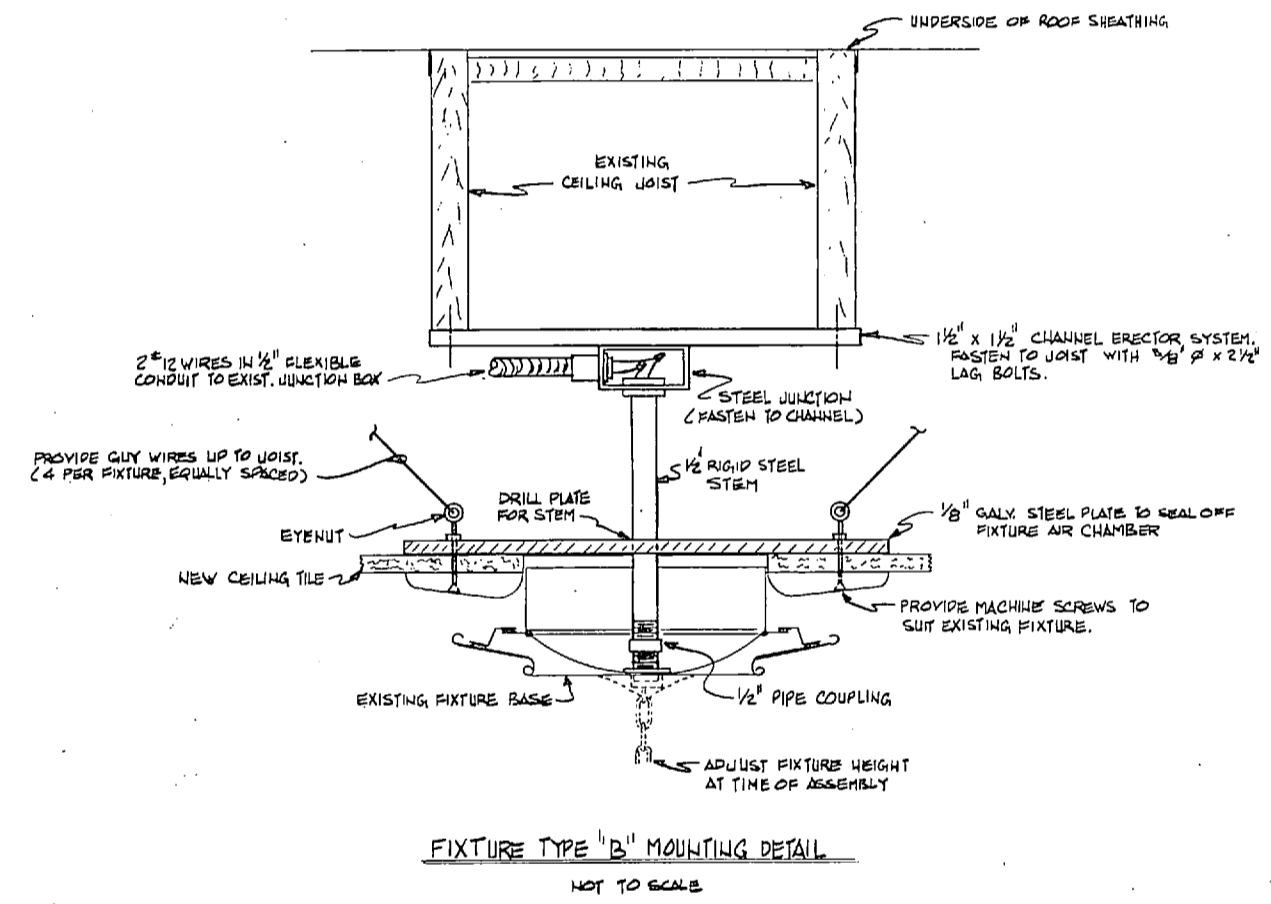
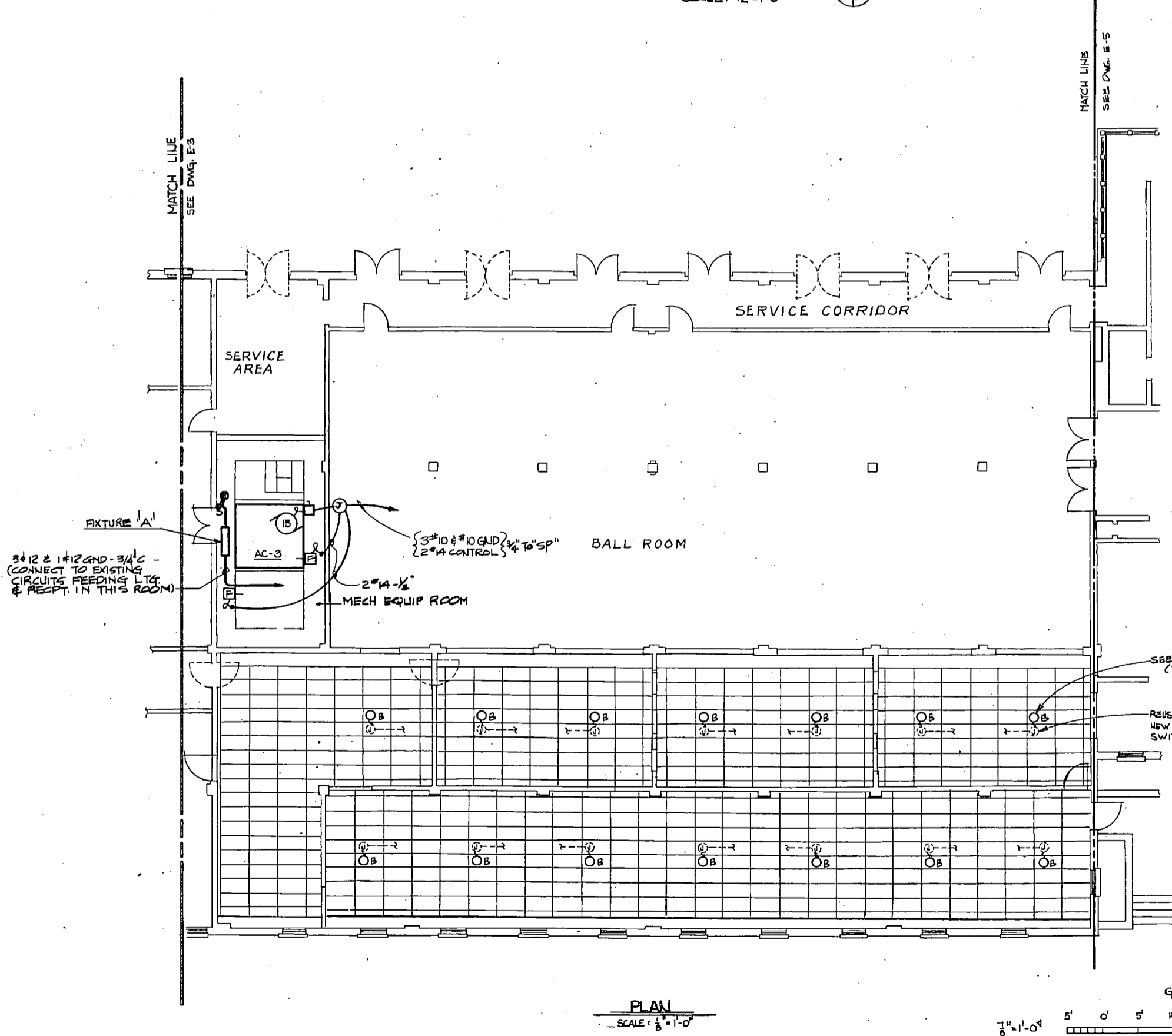
LIGHTING FIXTURE SCHEDULE					
FIXTURE TYPE SYMBOL	LAMP TYPE AND TYPE - SEE SPEC OR DETAIL AS NOTED	NUMBER AND TYPE OF LAMPS	VOLTS	MOUNTING	REMARKS
A	16-F TYPE 1	2-40W T-12	120	SURFACE CEILING	EXIST. FIXTURES REINSTALL
B	DETAIL 'A' THIS DRAWING	-	120	PENDANT	
C	16-F TYPE 1	2-40W T-12	120	PENDANT	10'-0" A.F.F.



EQUIPMENT LIST FOR ELEVATION VIEW		
ITEM	NAMEPLATE	DESCRIPTION
1	TRANSFORMER 'T1'	15KVA, 480V-120/208V, 3Ø, 60HZ
2	MISC. POWER PANEL 'MPP1'	100A, 120/208V, 3Ø, 4W
3	CONDENSER H2O PUMP	FVNR, FUSIBLE, COMB. TYPE STARTER
4	COOLING TOWER FAN	ditto
5	MAIN DISC. SWITCH	175AMP, 3P, CIRCUIT BREAKER
6	TRANSFORMER 'T1' FEEDER	30AMP, 3P, FUSED DISC. SWITCH
7	REF. MACHINE PANEL	ditto
8	CONDENSATE RETURN PUMP	FVNR, FUSIBLE, COMB. TYPE STARTER
9	CHILLED H2O PUMP	ditto
10	WIRING TROUGH	6' x 8' x 7'-0" GALV. STEEL

- NOTES:
- FOR ADDITIONAL EQUIPMENT INFORMATION SEE DWG. E-1 ONE LINE DIAGRAM.
 - PROVIDE GALV. CHANNEL SUPPORT SYSTEM FOR EQUIPMENT LISTED.
 - PROVIDE NAMEPLATES ON ALL EQUIPMENT. (SEE TYPICAL ON DWG. E-6)

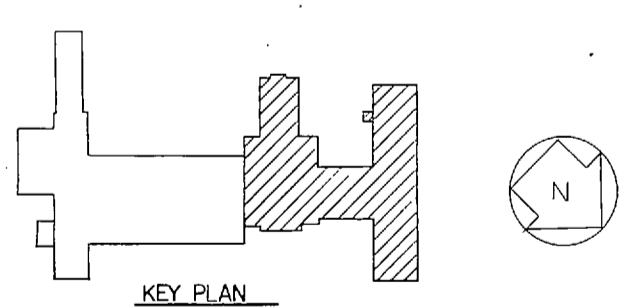
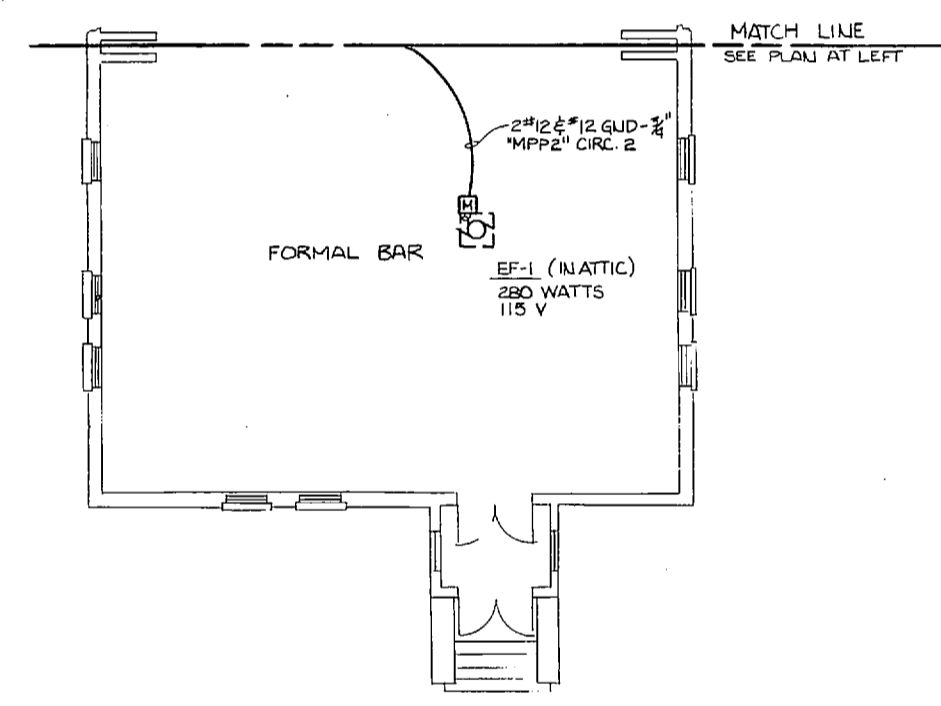
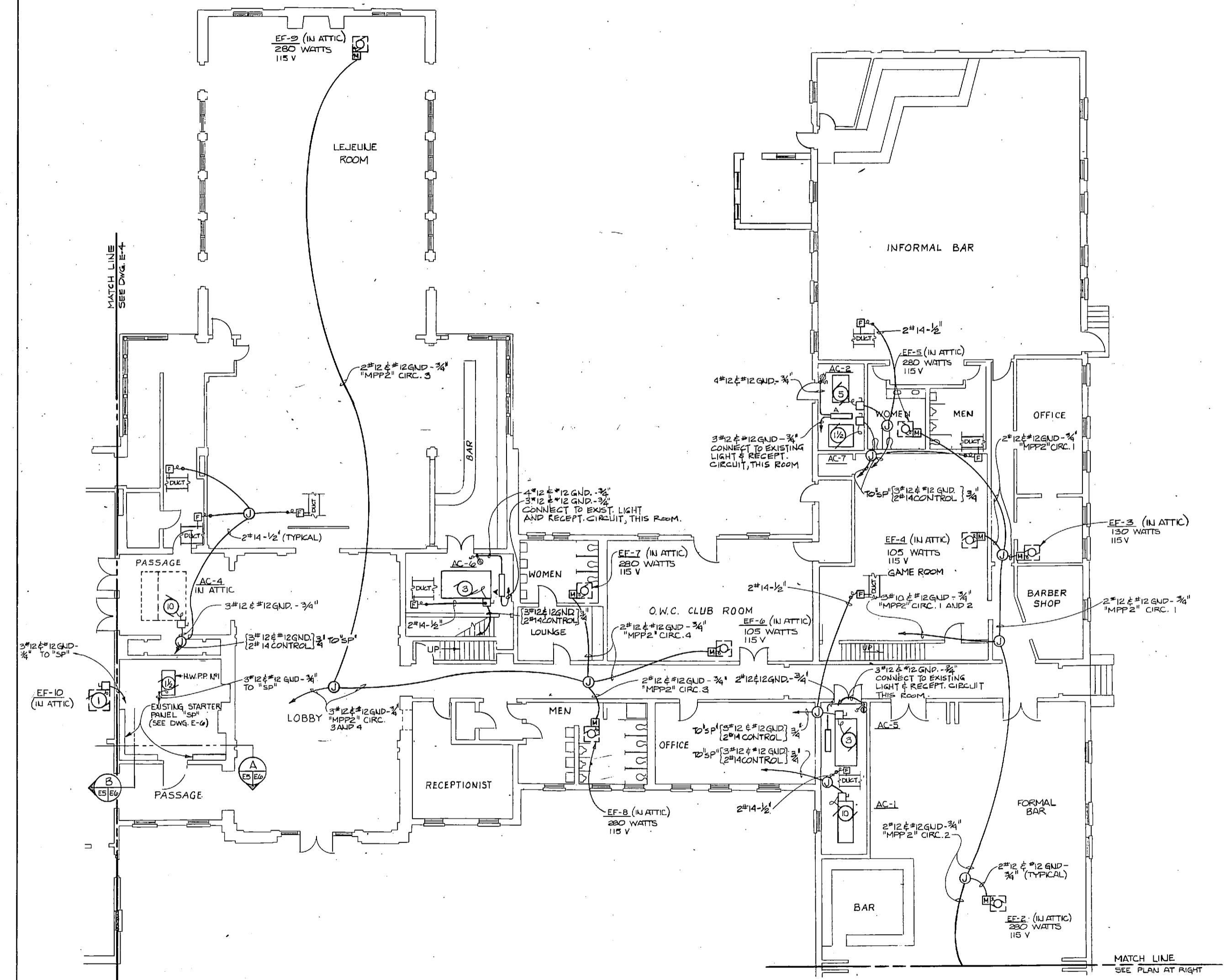
REVISIONS			
NO.	DESCRIPTION	DATE	APPROVED



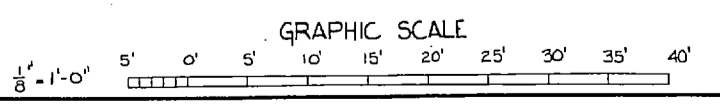
RSNSC JOB NO. 5-048-18	GREENVILLE SOUTH CAROLINA ENGINEERS & ARCHITECTS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	E-3
RSNSC DWG. NO. 72-5-2-37	DR. HYDERABAD RAO, CHIEF ARCHITECT PROJ. MURKIDD CH ENGR BOYD	ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C.	
DESIGNED BY 16-12-1972	DATE 1/27/77	REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615	
CHECKED BY 10/1/77	DATE 10/1/77	ELECTRICAL - POWER PLAN	
NO. 018	CHK. ENK	SHEET 2 OF 4	
APPROVED 10/1/77	DATE 10/1/77	SIZE CODE IDENT NO. NAVFAC DRAWING NO.	4030277
OFFICE IN CHARGE 10/1/77	DATE 10/1/77	80091	
CONTR. CONTR. NO. N62470-77-B-2563	SCALE AS NOTED	SPEC 06-77-2563	SHEET 37 OF 42

NOTES:
 1. FOR LEGEND SEE DWG. E-3.
 2. FOR ONE LINE DIAGRAM SEE DWG. E-1.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



PLAN
 SCALE: 1/8" = 1'-0"

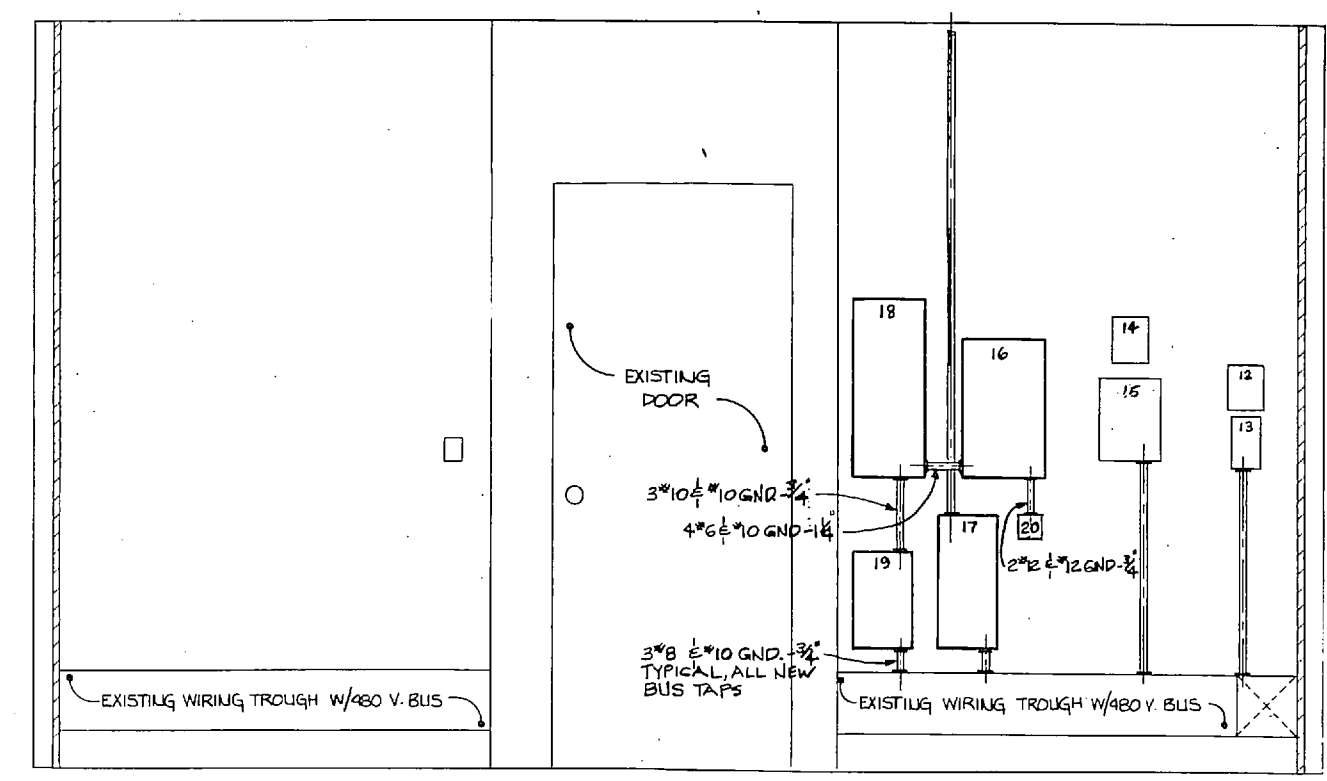


RSNSC JOB NO. 6-048-18		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
RSNSC DWS NO. 72-3-2-38		ATLANTIC DIVISION	
DESIGNER: NOONAN		NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N. C.	
PROJECT: REPLACE HEATING AND AIR CONDITIONING		COM (O), BLDG. 2615	
DRAWN BY: W. P. ...		ELECTRICAL - POWER PLAN	
CHECKED BY: ...		SHEET 3 OF 4	
APPROVED BY: ...		SIZE: CODE IDENT NO. NAVFAC DRAWING NO.	
DATE: ...		F 80091 4030278	
OFFICER IN CHARGE: ...		CONSTR CONTR NO. N62470-77-B-2563	
DATE: ...		SPEC 05-77-2563 SHEET 38 OF 42	
FOR COMMANDER, NAVFAC		SCALE AS NOTED	

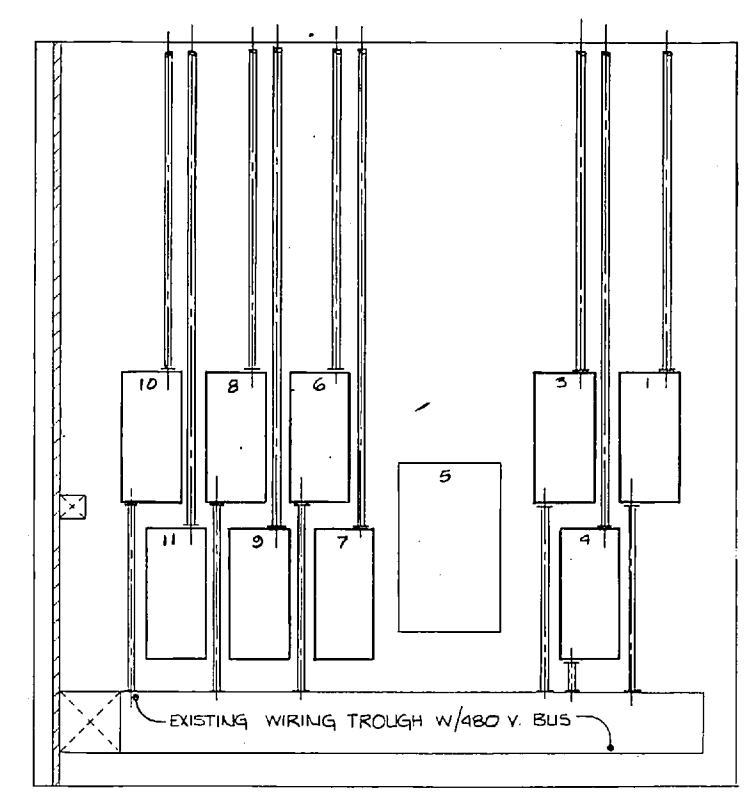
E-4

REVISIONS			
SIM	DESCRIPTION	DATE	APPROVED

NOTES:
 1. FOR LEGEND SEE DWG. E-3.
 2. FOR ONE LINE DIAGRAM SEE DWG. E-1.



STARTER PANEL "SP"
 ELEVATION
 SCALE: 3/4" = 1'-0" (A)

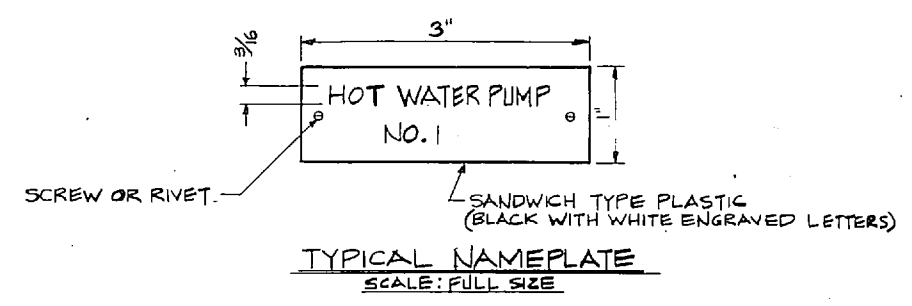


STARTER PANEL "SP" CONTINUED
 ELEVATION
 SCALE: 3/4" = 1'-0" (B)

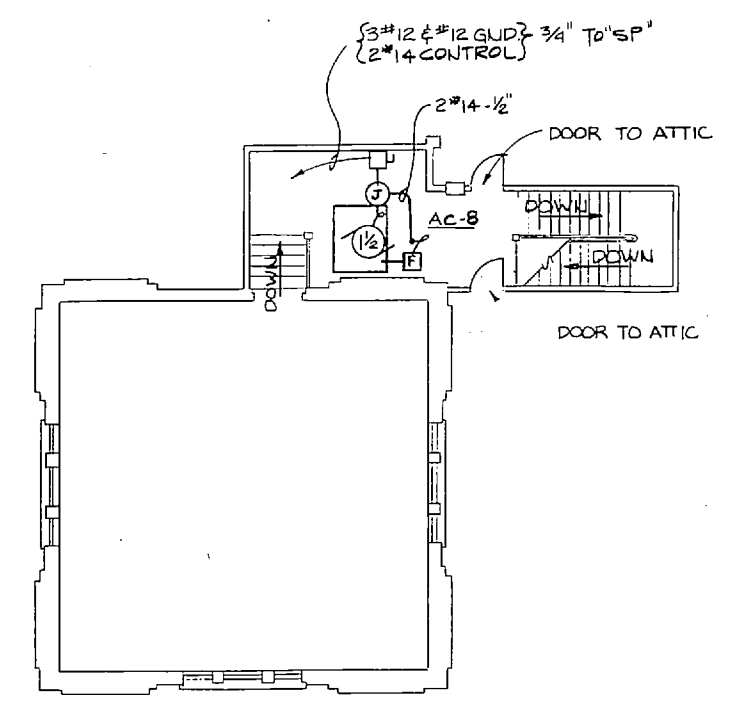
NOTE:
 SEE PLANS FOR WIRE & CONDUIT SIZES NOT SHOWN

PANEL "MPP 2"					
120/208, 3Ø, 4W 100 A BUS & 60A MAIN CIRCUIT BREAKER					
QTY	SKV	LO	CONJ.	COLL.	SERVING
NO	SIZE	POLES	WATTS		
1	20A	1P	515		EXHAUST FAN EF-3, EF-4, EF-5
2			560		EXHAUST FAN EF-1, EF-2
3			560		EXHAUST FAN EF-8, EF-9
4			385		EXHAUST FAN EF-6, EF-7
5			-		SPARE
6			-		SPARE
7	*		-		
8	*		-		
9	*		-		
10	*		-		
11	*		-		
12	*		-		

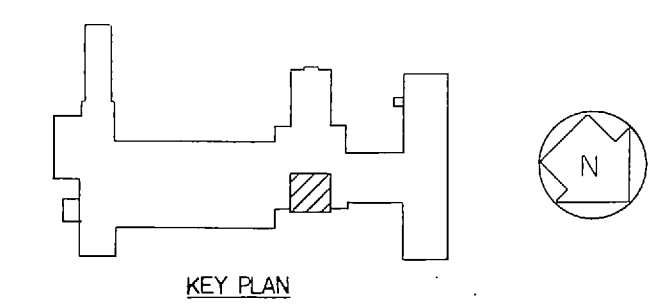
* SPACE ONLY FOR FUTURE BREAKERS
 ALL BREAKERS SHALL HAVE A MINIMUM INTERRUPTING RATING OF 10,000 AMPS, SYMMETRICAL.



EQUIPMENT LIST FOR STARTER PANEL "SP"			
ITEM NO.	NAMEPLATE	DESCRIPTION	REMARKS
1	HOT WATER PUMP No. 1	FVNR, FUSIBLE, COMB. TYPE STARTER	NEW
2	HOT USEP		
3	AIR HANDLING UNIT AC-1	FVNR, FUSIBLE, COMB. TYPE STARTER	NEW
4	AIR HANDLING UNIT AC-2		
5	MAIN CIRCUIT BREAKER	600AMP CIRCUIT BREAKER	EXISTING
6	AIR HANDLING UNIT AC-3	FVNR, FUSIBLE, COMB. TYPE STARTER	NEW
7		AC-4	
8		AC-8	
9		AC-6	
10		AC-7	
11		AC-5	
12	AIR COMPRESSOR	CONTACTOR	EXISTING
13	AIR COMPRESSOR	DISCONNECT SWITCH	
14	MACH. RM. EXHAUST FAN	CONTACTOR	
15	MACH. RM. EXHAUST FAN	DISCONNECT SWITCH	
16	MISC. POWER PANEL MPP2	100A, 120/208V, 3Ø, 4W	NEW
17	EXHAUST FAN EF-10	FVNR, FUSIBLE, COMB. TYPE STARTER	
18	TRANSFORMER "T2"	15KVA, 480V-120/208V, 3Ø, 60HZ	
19	XFMR "T2" DISCONNECT	30A, 3P, FUSIBLE DISCONNECT SW.	
20	120V OUTLET	120V, 20A, DUPLEX RECEPTACLE	

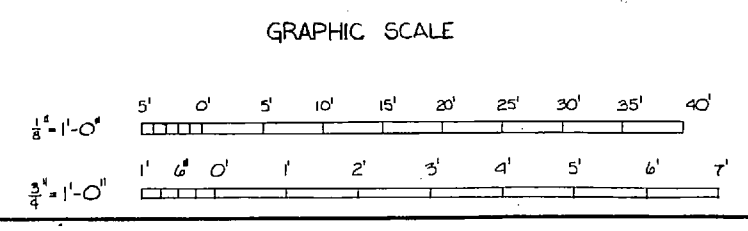


SECOND FLOOR PLAN
 SCALE: 1/8" = 1'-0"



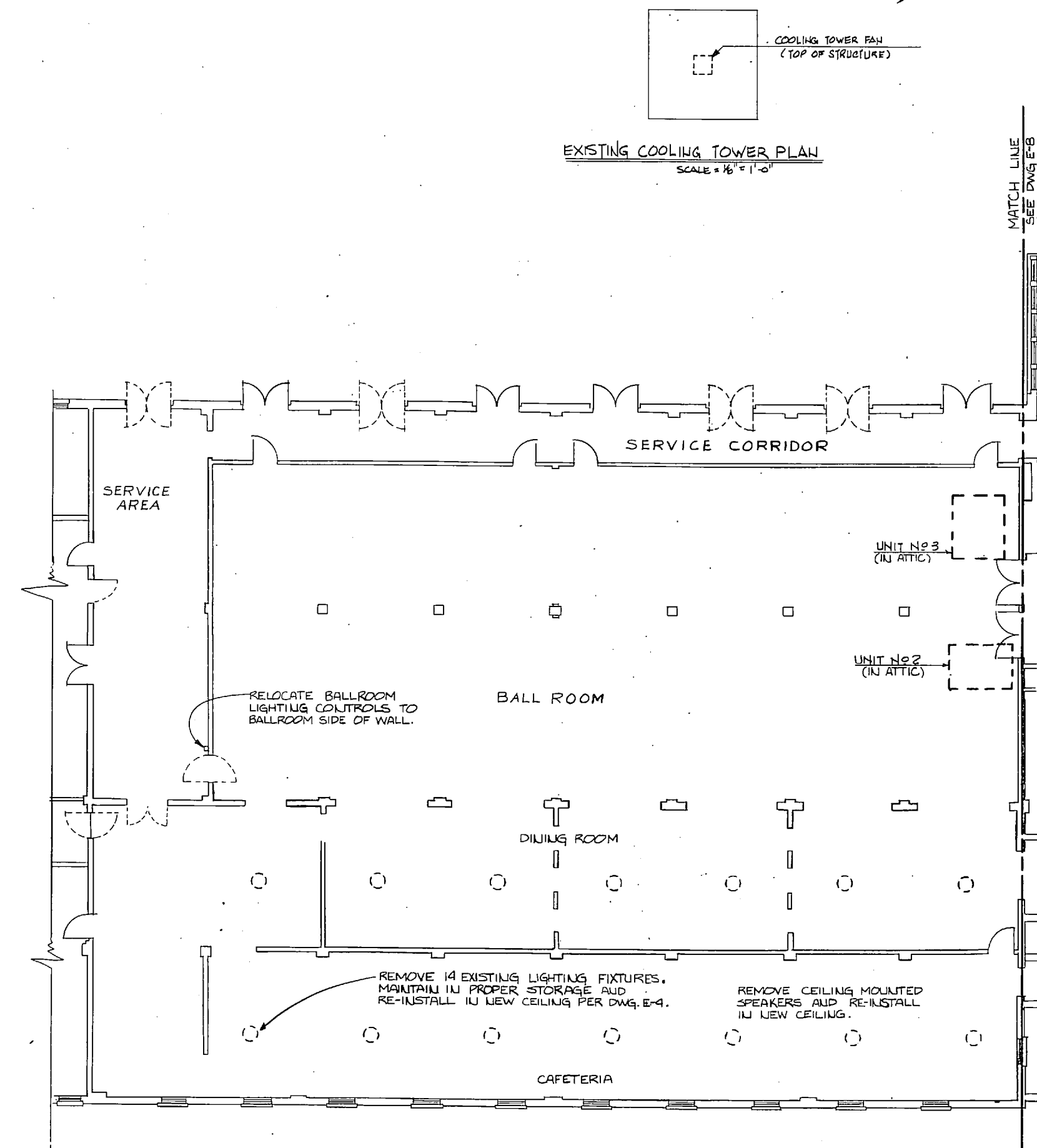
KEY PLAN

NOTE:
 1. FURNISH AND INSTALL NAMEPLATES ON ALL ELECTRICAL EQUIPMENT PER DETAIL THIS DRAWING.



RSNSC JOB NO. 6-048-18	GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	E-5
RSNSC DWG. NO. 78-5-39	DISNEYER OR ROKOS CHAPLEIGH	ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA	
SEAL: PROJECT MGR. KIDDCH ENGR BOYD	DATE 11/77	MARINE CORPS BASE CAMP LEJEUNE, N. C.	
APPROVED BY: [Signature]	DATE 11/77	REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG. 2615	
APPROVED BY: [Signature]	DATE 10/77	ELECTRICAL - POWER PLAN SHEET 4 OF 4	
APPROVED BY: [Signature]	DATE 10/77	SIZE CODE IDENT NO. NAVFAC DRAWING NO.	4030279
APPROVED BY: [Signature]	DATE 10/77	CONSTR CONTR NO. N62470-77-B-2563	
EPD FOR COMMANDER, NAVFAC	SCALE AS NOTED	SPEC 05-77-2563 SHEET 39 OF 42	

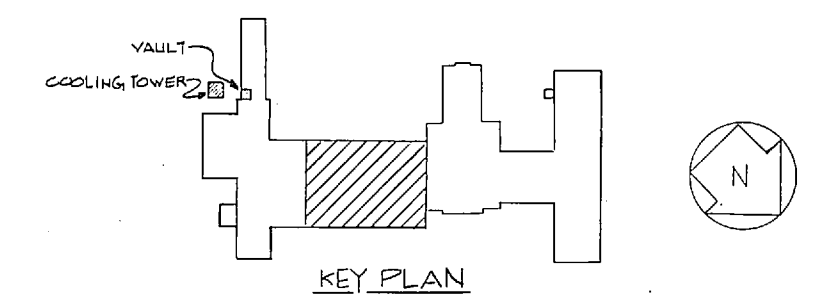
[The page contains extremely faint, illegible text, likely bleed-through from the reverse side of the document. The text is too light to transcribe accurately.]



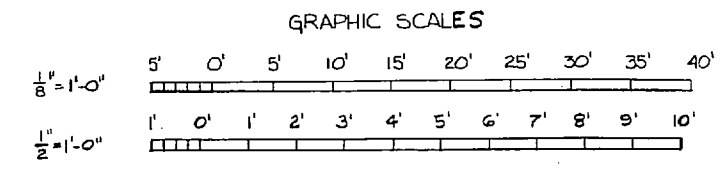
EQUIPMENT DEMOLITION SCHEDULE		
ITEM	DESCRIPTION OF WORK	LOCATION
UNIT N° 1	DISCONNECT MOTOR LEADS; REMOVE CONDUIT AND WIRE, STARTER, AND SWITCH.	E-8
UNIT N° 2		E-7
UNIT N° 3		E-7
UNIT N° 4		E-8
UNIT N° 5		E-8
UNIT N° 6		E-8
UNIT N° 7		E-8
UNIT N° 8		E-8
UNIT N° 9		E-8
UNIT N° 9 CONDENSER		E-8
UNIT N° 10		E-8
UNIT N° 10 CONDENSER		E-8
UNIT N° 11		E-9
COMPRESSOR N° 1		E-8
COMPRESSOR N° 2		E-8
COMPRESSOR N° 3		E-8
TOWER CIRC. PUMP		E-8
CHILLED WATER PUMPS (2)		E-8
EXHAUST FAN ZONE B		E-8
EXHAUST FANS ZONE 7 (2)		E-8
EXHAUST FAN ZONE 4		E-8
COOLING TOWER FAN	DITTO, EXCEPT ABANDON BURIED CONDUIT.	E-7
EQUIP. ROOM EXHAUST FAN	DISCONNECT MOTOR LEADS; REMOVE CONDUIT AND WIRE, STARTER, AND SWITCH.	E-8

REVISIONS		
SYM	DESCRIPTION	DATE APPROVED

NOTE:
STARTERS AND DISCONNECTS LOCATED REMOTE FROM EQUIPMENT ARE SHOWN ON STARTER PANEL DETAIL, DWG. E-5.



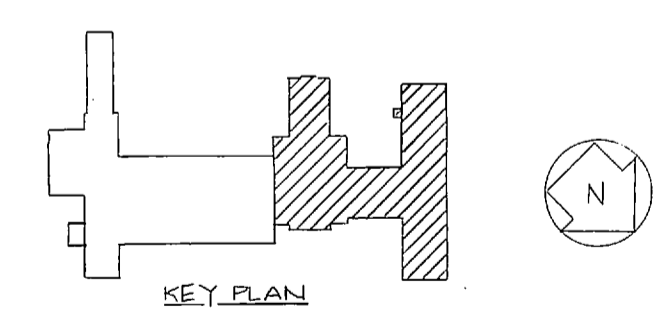
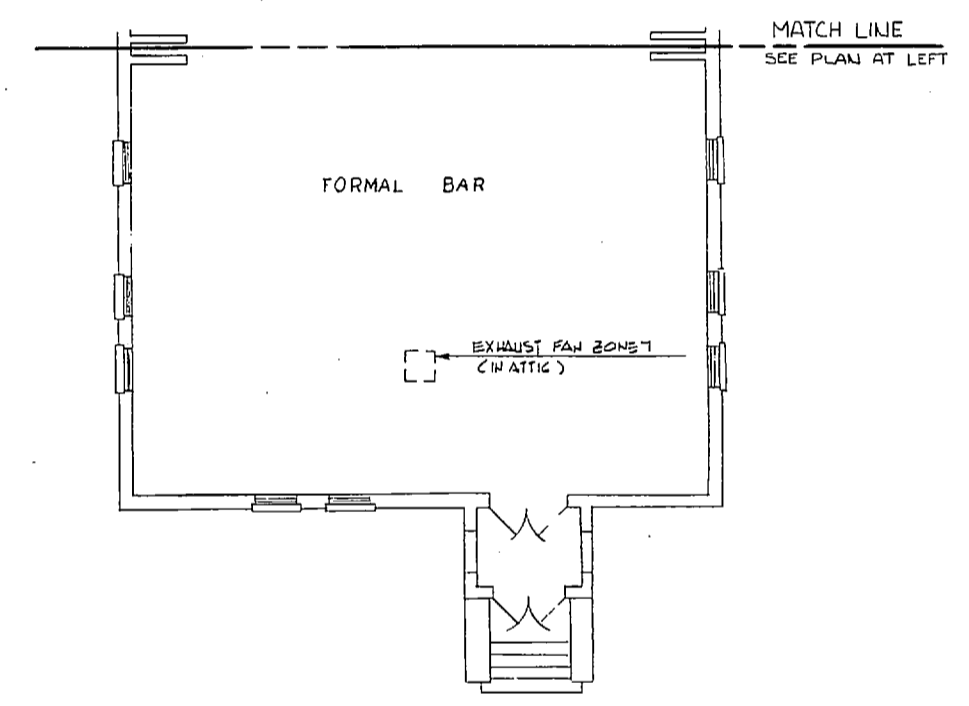
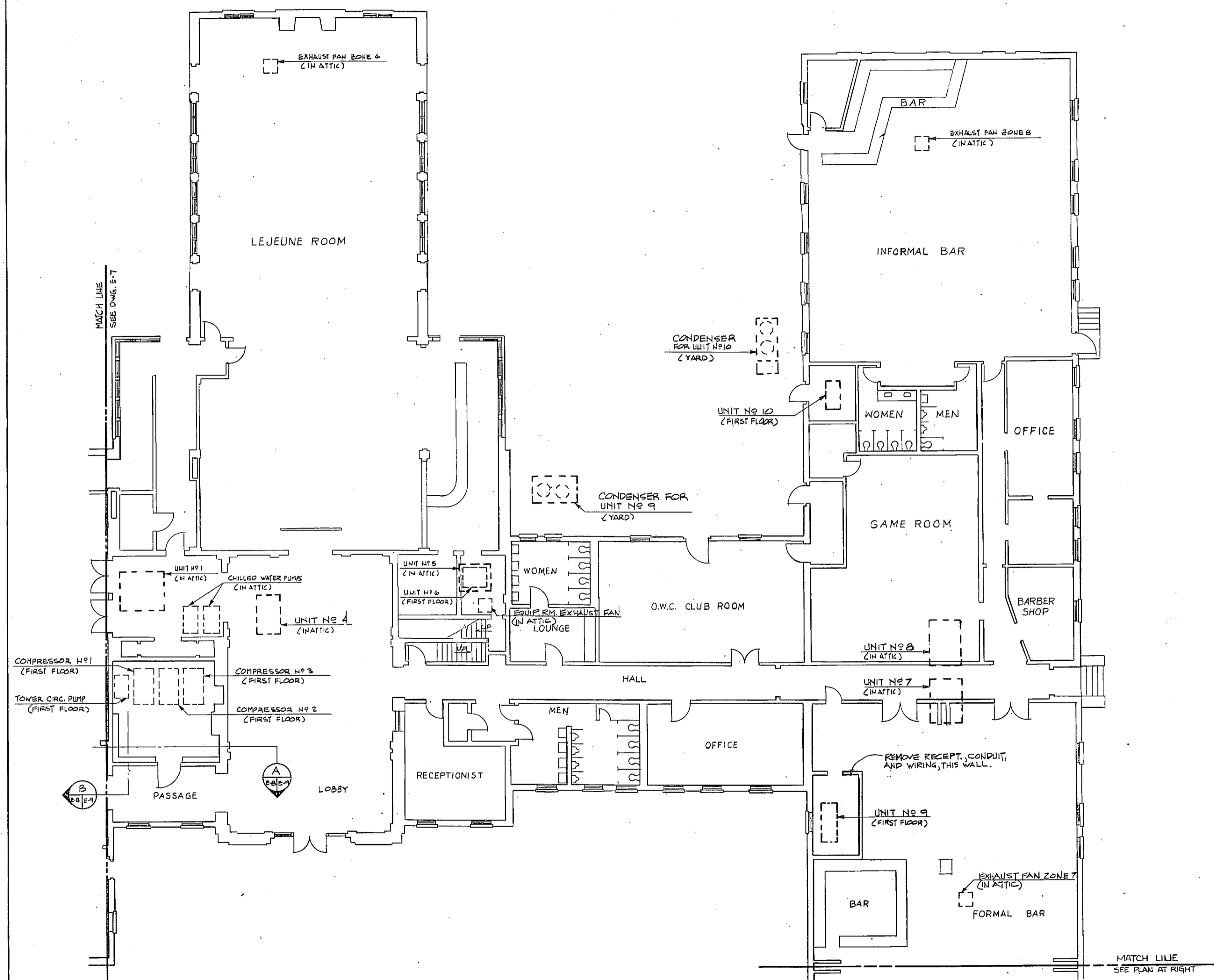
PLAN
SCALE: 1/8" = 1'-0"



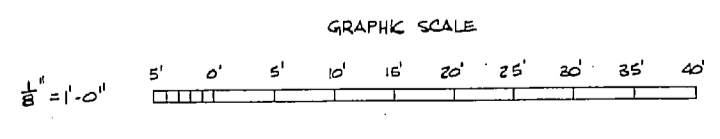
RSNJC JOB NO. 6-028-18 RSNJC DWG. NO. 72-3-2-40 SEAL:	INOONANI GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DON HIGER DR. ROADS, CIVIL LEIGH BRUNN MGR. KIDD CIV. ENGR. BOYD SUBMITTED BY: <i>[Signature]</i> DATE: 11/2/77 CHECKED BY: <i>[Signature]</i> DATE: 11/2/77 APPROVED BY: <i>[Signature]</i> DATE: 11/11/78 LFD FOR COMMANDER, NAVFAC	DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C. REPLACE HEATING AND AIR CONDITIONING COM (0), BLDG. 2615 ELECTRICAL-DEMOLITION PLAN SH.10F3	E-6 SIZE: F CODE IDENT NO.: 80091 NAVFAC DRAWING NO.: 4030280 CONSTR CONTR. NO.: N62470-B-77-2563 SPEC 05-77-2563 SHEET 40 OF 42 EFD DWG. NO.
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NOTES:
1. SEE DEMOLITION SCHEDULE ON DRAWING E-7 FOR DESCRIPTION OF WORK AT EACH PUMP OR UNIT.

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



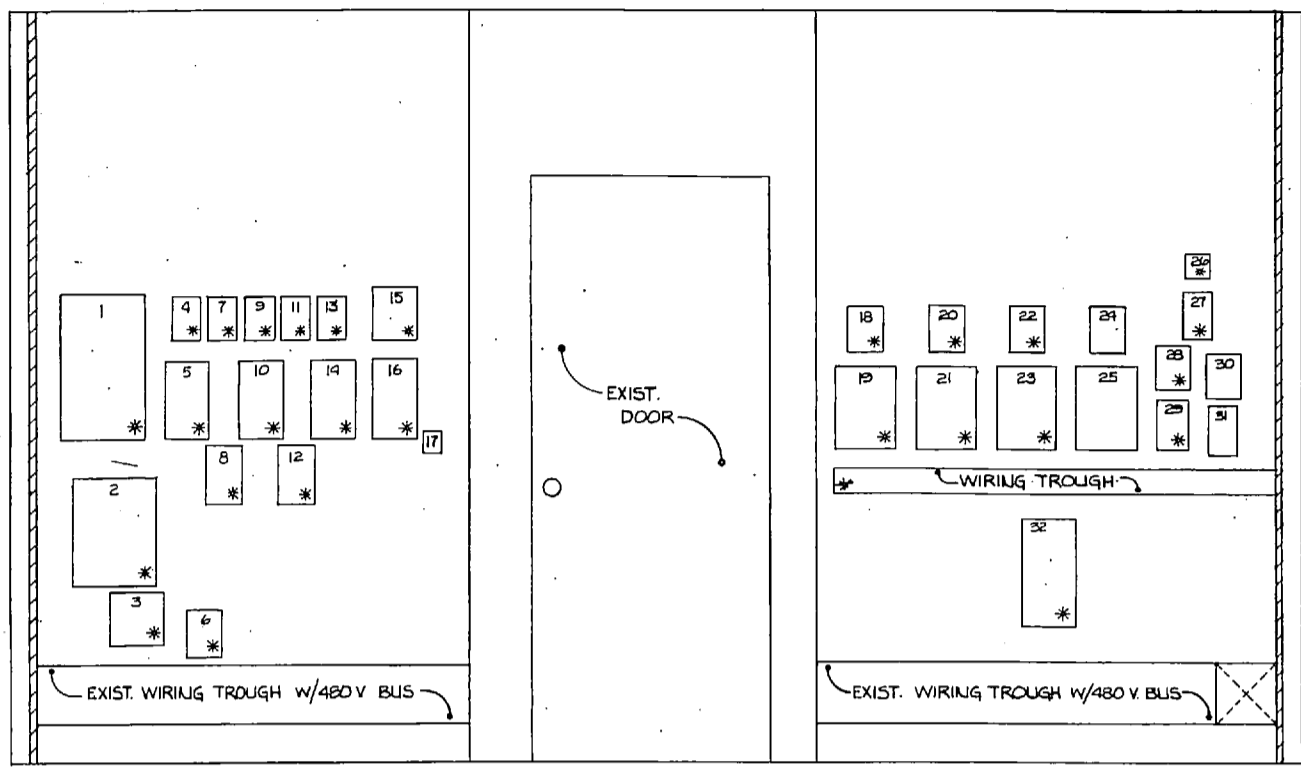
PLAN
SCALE: 1/8" = 1'-0"



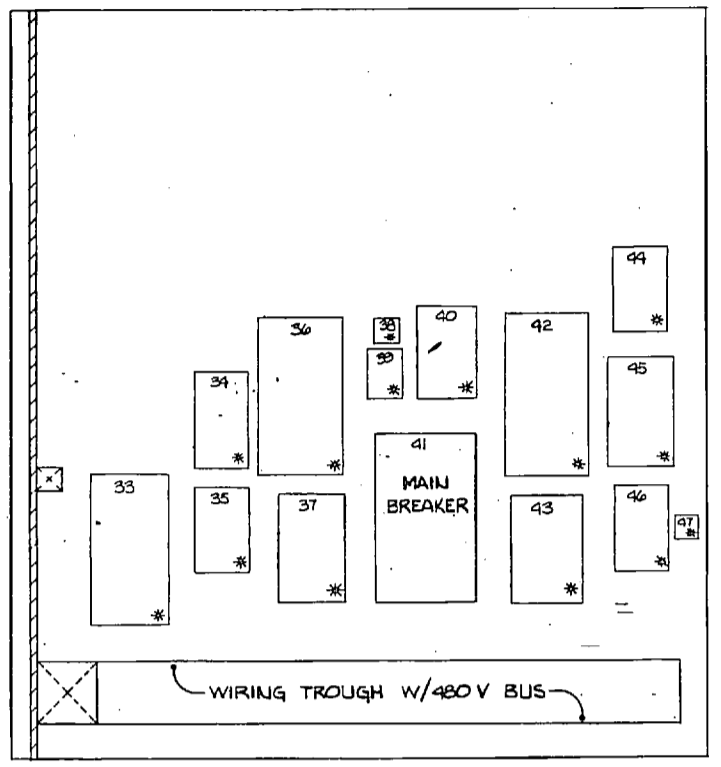
RSNSC JOB NO. 6-048-18 RSNSC DWG. NO. 72-5-2-41		NOONAN GREENVILLE, SOUTH CAROLINA ENGINEERS & ARCHITECTS DESIGNED BY ROBERT CHICKLEIGH PROJ. MGR. KIDD CH ENOR BOYD SUBMITTED BY <i>H. V. P.</i> FIRM MEMBER <i>H. V. P.</i> DATE <i>12/14/77</i> APPROVED <i>[Signature]</i> OFFICER IN CHARGE		DEPARTMENT OF THE NAVY ATLANTIC DIVISION NAVAL STATION MARINE CORPS BASE CAMP LEJEUNE, N.C. REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG 2615 ELECTRICAL-DEMOLITION PLAN SH. 2 OF 3	
SEAL: <i>[Professional Seal]</i> APPROVED <i>[Signature]</i> DATE <i>12/14/77</i> OFFICER IN CHARGE		SIZE CODE IDENT NO. NAVFAC DRAWING NO. F 80091 4030281	CONSTR CONTR NO. N62470-77-B-2563 SCALE AS NOTED SPECOS-77-2563 SHEET 41 OF 42		

E-7

REVISIONS		
SYM	DESCRIPTION	DATE APPROVED



STARTER PANEL "SP"
ELEVATION
SCALE: 3/4"=1'-0"
A

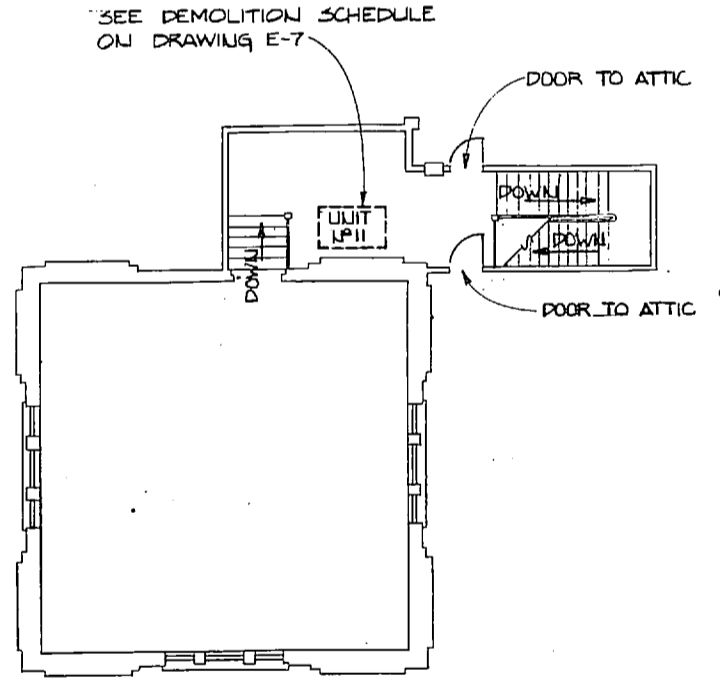


STARTER PANEL "SP" CONTINUED
ELEVATION
SCALE: 3/4"=1'-0"
B

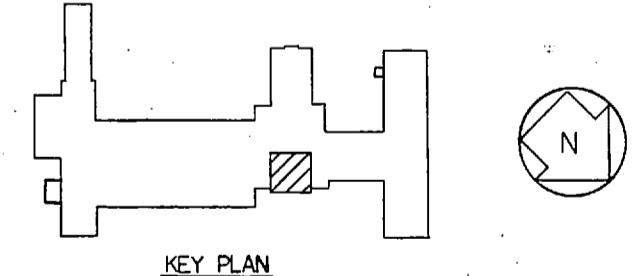
* INDICATES ITEM TO BE REMOVED AND INCLUDES ASSOCIATED POWER AND CONTROL WIRING AND CONDUIT.

ITEM NO	DESCRIPTION	REMARKS
1	COMPRESSOR UP 3, DISCONNECT SWITCH	REMOVE
2	COMPRESSOR UP 3, CONTACTOR	
3	RELAY PANEL	
4	UNIT UP 3, DISCONNECT SWITCH	
5	UNIT UP 3, CONTACTOR	
6	RELAY PANEL	
7	EXHAUST FAN ZONE 8, CONTACTOR	
8	EXHAUST FAN ZONE 8, DISCONNECT SWITCH	
9	UNIT UP 7, CONTACTOR	
10	UNIT UP 7, DISCONNECT SWITCH	
11	EXHAUST FAN ZONE 7, CONTACTOR	
12	EXHAUST FAN ZONE 7, DISCONNECT SWITCH	
13	UNIT UP 6, CONTACTOR	
14	UNIT UP 6, DISCONNECT SWITCH	
15	CHILLED WATER CIRC. PUMP, CONTACTOR	
16	CHILLED WATER CIRC. PUMP, DISCONNECT SWITCH	
17	MACHINE ROOM LIGHT SWITCH	TO REMAIN 'AS IS'
18	SUPPLY FAN ZONE 1, CONTACTOR	REMOVE
19	SUPPLY FAN ZONE 1, DISCONNECT SWITCH	
20	SUPPLY FAN ZONE 2, CONTACTOR	
21	SUPPLY FAN ZONE 2, DISCONNECT SWITCH	
22	SUPPLY FAN ZONE 4, CONTACTOR	
23	SUPPLY FAN ZONE 4, DISCONNECT SWITCH	
24	MACHINE ROOM EXHAUST FAN, CONTACTOR	TO REMAIN 'AS IS'
25	MACHINE ROOM EXHAUST FAN, DISCONNECT SWITCH	
26	115 V DUPLEX RECEPTACLE	REMOVE
27	115 V CONTROL CIRCUIT, DISCONNECT SWITCH	
28	EXHAUST FAN ZONE 4, CONTACTOR	
29	EXHAUST FAN ZONE 4, DISCONNECT SWITCH	
30	AIR COMPRESSOR, CONTACTOR	TO REMAIN 'AS IS'
31	AIR COMPRESSOR, DISCONNECT SWITCH	
32	CONTROL CIRCUIT TRANSFORMER 480-120/240, 3KVA	REMOVE
33	YORK SYSTEM, DISCONNECT SWITCH	
34	CHILLED WATER PUMP, DISCONNECT SWITCH	
35	CHILLED WATER PUMP, CONTACTOR	
36	COMPRESSOR UP 2, DISCONNECT SWITCH	

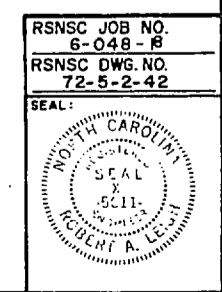
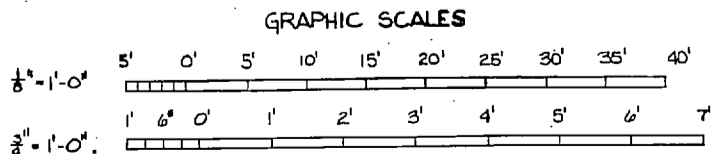
ITEM NO	DESCRIPTION	REMARKS
37	COMPRESSOR UP 2, CONTACTOR	REMOVE
38	PRESSURE SWITCH	
39	COOLING TOWER FAN, CONTACTOR	
40	COOLING TOWER FAN, DISCONNECT SWITCH	
41	MACHINE ROOM FEEDER, MAIN DISCONNECT SWITCH	TO REMAIN 'AS IS'
42	COMPRESSOR UP 1, DISCONNECT SWITCH	REMOVE
43	COMPRESSOR UP 1, CONTACTOR	
44	CONTACTOR	
45	TOWER CIRC. PUMP, DISCONNECT SWITCH	
46	TOWER CIRC. PUMP, CONTACTOR	
47	PRESSURE SWITCH	



SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"

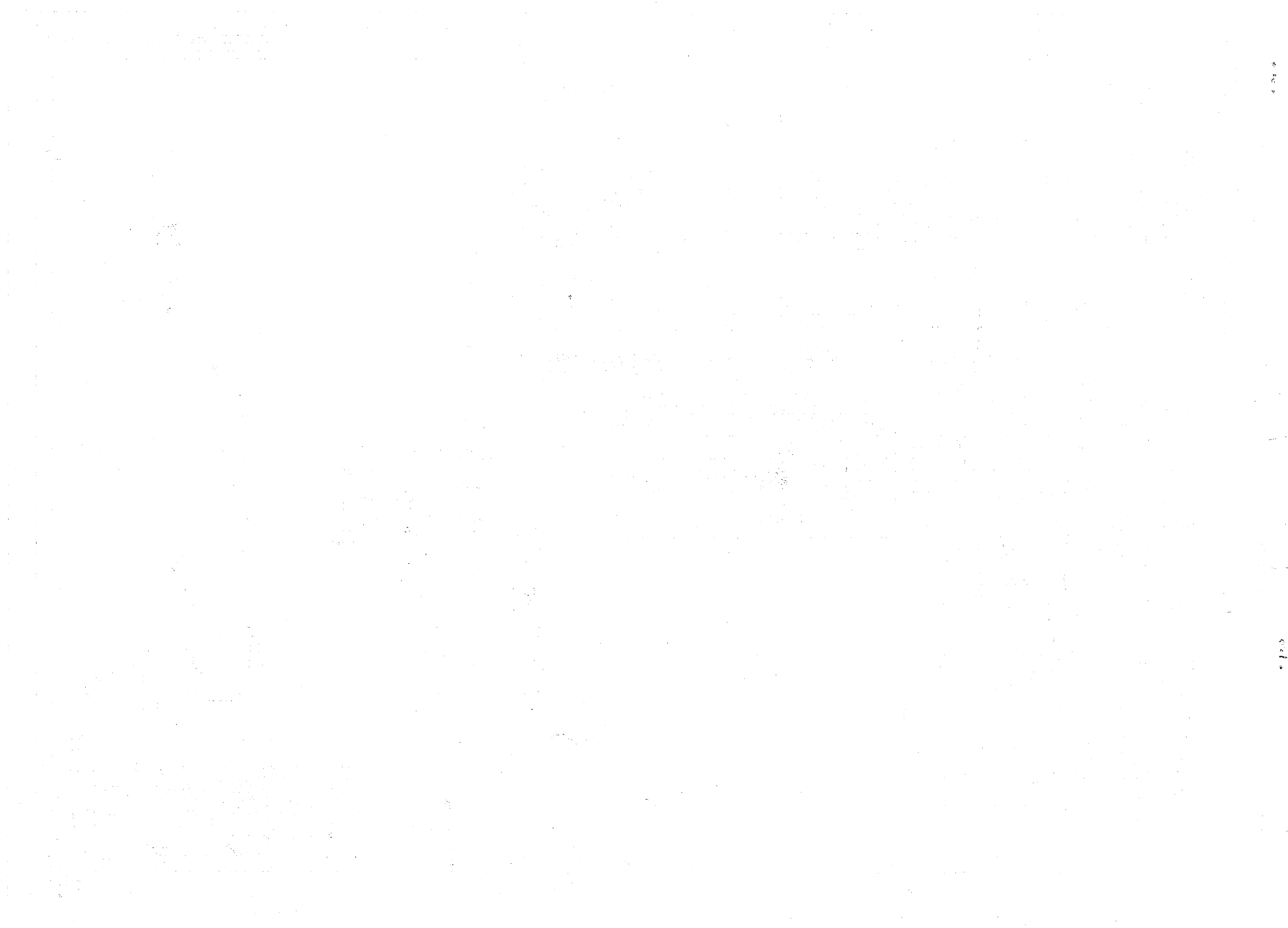


KEY PLAN



RSNSC JOB NO. 6-048-B	RSNSC DWG. NO. 72-5-2-45	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION	NAVAL STATION NAVAE BRIG REPLACE HEATING AND AIR CONDITIONING COM (O), BLDG. 2615 ELECTRICAL-DEMOLITION PLAN SH 3 OF 3
PROJ. MOR. KIDD CH ENGR BOYD	DATE 11/27/77	SIZE F	CODE IDENT. NO. 80091
APPROVED BY [Signature]	DATE 11/27/77	CONSTR. CONTR. NO. N62470-77-B-2585	NAVYAC DRAWING NO. 40302 82
OFFICE IN CHARGE [Signature]	DATE 11/27/77	SCALE AS NOTED	SHEET 42 OF 42

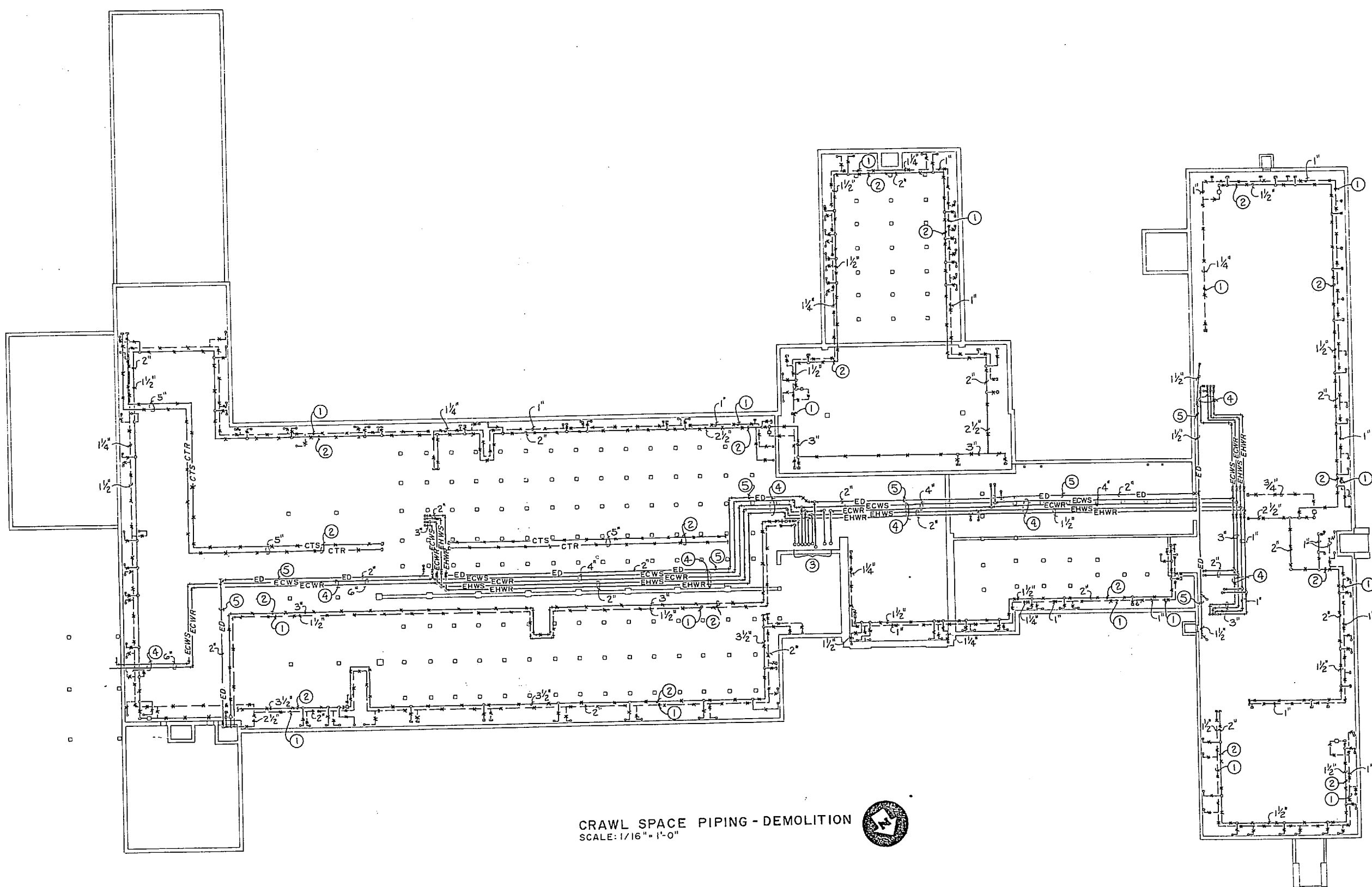
E-8



12

12

REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	9/30/85	

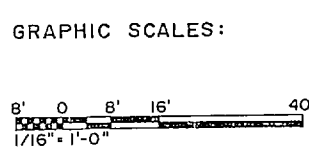


CRAWL SPACE PIPING - DEMOLITION
SCALE: 1/16" = 1'-0"

LEGEND

	REMOVE EXISTING PIPING (LINE SYMBOL INDICATES SERVICE)
	REMOVE EXISTING EQUIPMENT
	EXISTING EQUIPMENT TO REMAIN
	REMOVE EXISTING DUCTWORK
	EXISTING DUCTWORK TO REMAIN
	NEW DUCTWORK
	NEW STEAM PIPING (60 PSIG)
	NEW STEAM PIPING (15 PSIG)
	NEW STEAM CONDENSATE PIPING
	HWS - NEW HOT WATER SUPPLY PIPING
	HWR - NEW HOT WATER RETURN PIPING
	CWS - NEW CHILLED WATER SUPPLY PIPING
	CWR - NEW CHILLED WATER RETURN PIPING
	D - NEW AIR CONDITIONING DRAIN PIPING
	GATE VALVE
	CHECK VALVE
	BALANCING VALVE
	SQUARE HEAD COCK
	PRESSURE REDUCING VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	UNION
	FLANGE
	GATE VALVE IN RISE
	PRESSURE GAUGE WITH GAUGE COCK
	THERMOMETER
	PIPE ANCHOR
	TERMINATION POINT OF DEMOLITION
	POINT OF NEW CONNECTION TO EXISTING
	MANUAL DAMPER
	COOLING THERMOSTAT
	HEATING & COOLING THERMOSTAT
	EXISTING HOT WATER SUPPLY PIPING
	EXISTING HOT WATER RETURN PIPING
	EXISTING CHILLED WATER SUPPLY PIPING
	EXISTING CHILLED WATER RETURN PIPING
	EXISTING AIR CONDITIONING DRAIN PIPING
	COOLING TOWER SUPPLY PIPING
	COOLING TOWER RETURN PIPING
	NEW STEAM PIPING (100 P.S.I.G.)
	NEW HIGH PRESSURE STEAM CONDENSATE
	NEW PUMPED STEAM CONDENSATE

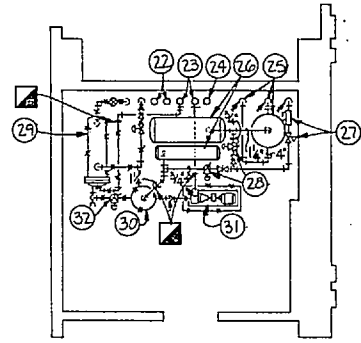
- KEYED NOTES: (THIS SHEET ONLY)**
- 1 REMOVE EXISTING UNINSULATED PIPING.
 - 2 REMOVE EXISTING PIPING WITH ASBESTOS PIPE INSULATION.
 - 3 EXISTING PIPING UP TO MECHANICAL ROOM, SEE DETAIL 'A', SHEET M-2 FOR CONTINUATION. PIPING FROM LEFT TO RIGHT, 1-1/2" CONDENSATE, 3" STEAM, 2" CHILLED WATER SUPPLY, 2" CHILLED WATER RETURN, 2-1/2" HOT WATER SUPPLY, 2-1/2" HOT WATER RETURN, 4" CHILLED WATER RETURN FROM BUILDING AND 4" CHILLED WATER TO CHILLER. REMOVE EXISTING STEAM AND CONDENSATE PIPING. CHILLED WATER AND HOT WATER PIPING TO REMAIN. SEE DRAWING M-4 FOR NEW WORK.
 - 4 EXISTING INSULATED CHILLED WATER SUPPLY, CHILLED WATER RETURN, HOT WATER SUPPLY AND HOT WATER RETURN PIPING TO REMAIN. CLEAN PIPE INSULATION CONTAMINATE WITH ASBESTOS.
 - 5 EXISTING AIR CONDITIONING CONDENSATE DRAIN PIPING TO REMAIN.



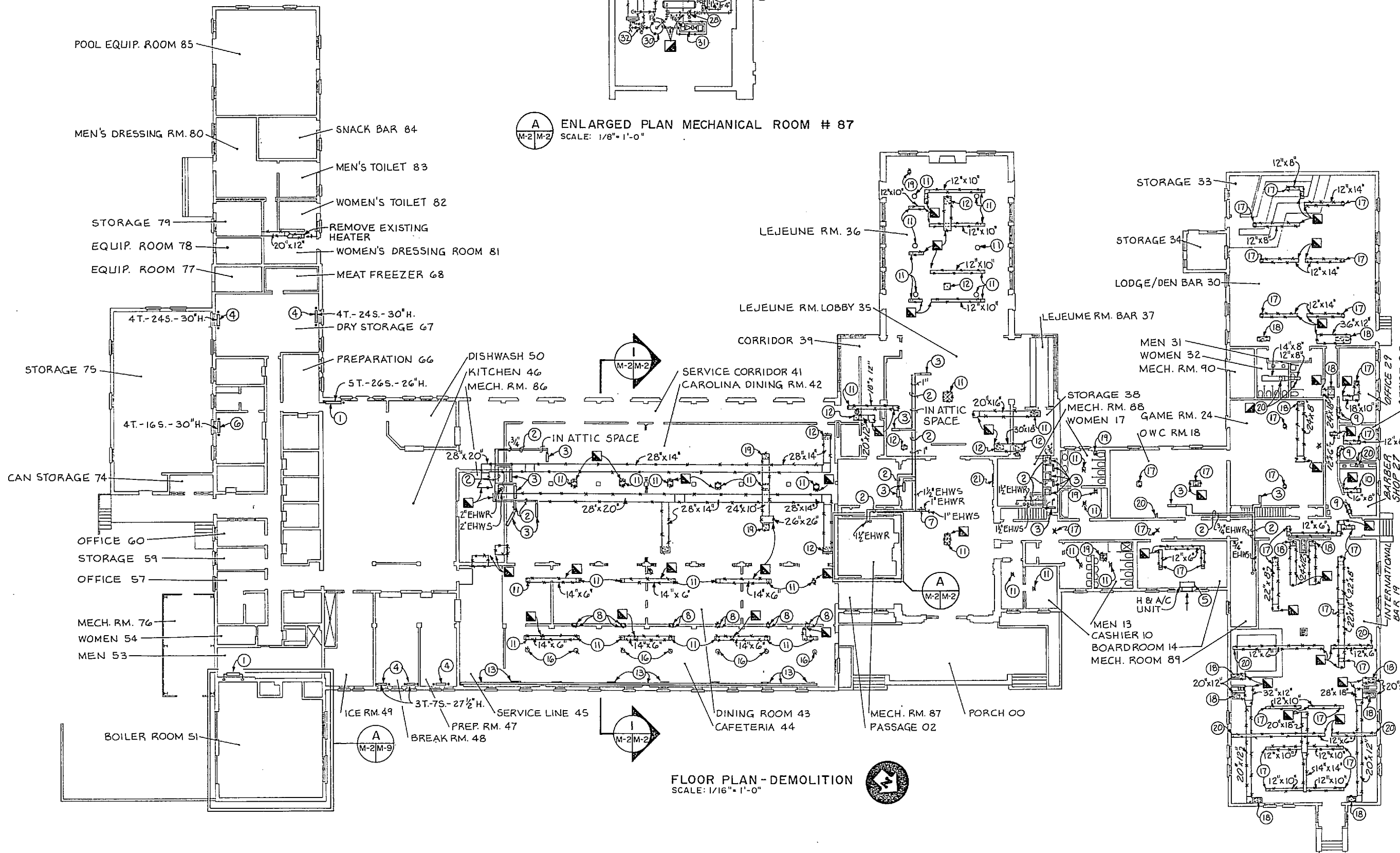
RECORD DRAWING		M-1
CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA 86-33		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA RENOVATE BUILDING 2615 CRAWL SPACE PIPING DEMOLITION
DES. JGW DR. JEM, LAB CHK. JHC SUBMITTED BY: RJL DESIGN DIR. JEM		NAVFAC DRAWING NO. 4160633
APPROVED: PWD OR DICC DATE: 7-20-87		SIZE: F CODE IDENT. NO.: 80091
SATISFACTORY TO:		CONST. CONTR. NO. N62470-86-B-9517 SHEET 53 OF 74



REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	5/30/89	



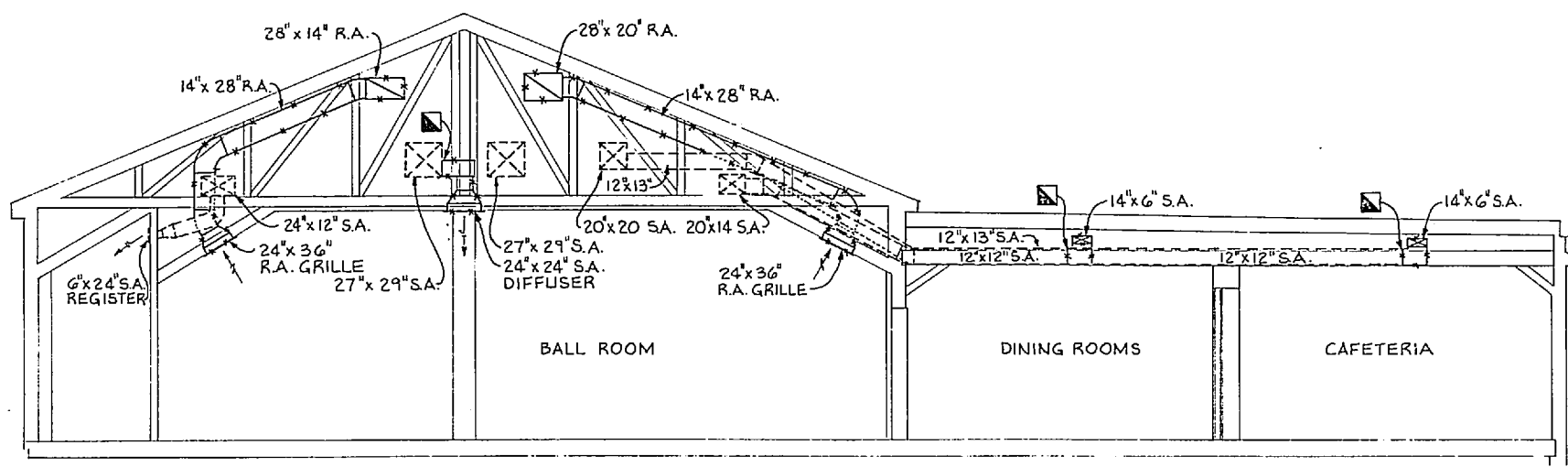
A ENLARGED PLAN MECHANICAL ROOM # 87
SCALE: 1/8" = 1'-0"



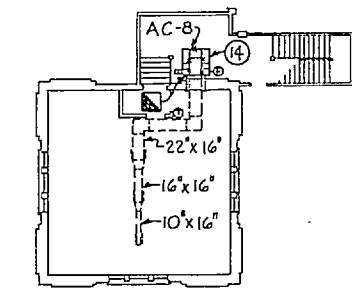
FLOOR PLAN - DEMOLITION
SCALE: 1/16" = 1'-0"

KEYED NOTES: (THIS SHEET ONLY)

- 1 EXISTING RADIATOR TO REMAIN. REMOVE EXISTING RADIATOR VALVE AND TRAP. SEE SHEET M-3 FOR NEW WORK.
- 2 EXISTING HOT WATER SUPPLY AND RETURN PIPING WITH INSULATION TO REMAIN. CLEAN INSULATION CONTAMINATED WITH ASBESTOS.
- 3 EXISTING HEATING COIL, PIPING AND CONTROL VALVE TO REMAIN. SEE SHEET M-3 FOR NEW WORK.
- 4 REMOVE EXISTING CAST IRON RADIATOR WITH RELATED PIPING.
- 5 EXISTING THRU-WALL AIR CONDITIONING UNIT TO REMAIN.
- 6 EXISTING RADIATOR TO BE RELOCATED. REMOVE EXISTING RADIATOR VALVE AND TRAP. SEE SHEET M-3 FOR NEW WORK.
- 7 SEE SECOND FLOOR PLAN, THIS SHEET, FOR CONTINUATION.
- 8 REMOVE EXISTING LOW SIDEWALL TRANSFER AIR GRILLES.
- 9 REMOVE EXISTING HIGH SIDEWALL TRANSFER AIR GRILLES.
- 10 REMOVE EXISTING CEILING DIFFUSER AND BRANCH RUNOUT TO TRUNK DUCT. PATCH TRUNK DUCT AIR TIGHT AND INSULATE.
- 11 REMOVE EXISTING CEILING DIFFUSER. SEE FLOOR PLAN, SHEET M-7 FOR NEW WORK.
- 12 REMOVE EXISTING CEILING RETURN AIR GRILLE. SEE FLOOR PLAN, SHEET M-7 FOR NEW WORK.
- 13 REMOVE EXISTING 12" X 9" DUCT WITH SIDEWALL SUPPLY AIR REGISTERS.
- 14 RELOCATE EXISTING AIR HANDLING UNIT WITH HEATING COIL, COOLING COIL AND 'EMS' SENSORS, 2832 CFH.
- 15 EXISTING EXPOSED DUCTWORK TO REMAIN.
- 16 REMOVE EXISTING CEILING DIFFUSER WITH LIGHTING FIXTURE MOUNTED IN CENTER.
- 17 REMOVE EXISTING CEILING DIFFUSER. SEE FLOOR PLAN, SHEET M-8 FOR NEW WORK.
- 18 REMOVE EXISTING CEILING RETURN AIR GRILLE. SEE FLOOR PLAN, SHEET M-8 FOR NEW WORK.
- 19 REMOVE EXISTING EXHAUST FAN, RELATED DUCTWORK AND EXHAUST REGISTER. SEE FLOOR PLAN, SHEET M-7 FOR NEW WORK.
- 20 REMOVE EXISTING EXHAUST REGISTER, SEE FLOOR PLAN, SHEET M-8 FOR NEW WORK.
- 21 REMOVE EXISTING SIDEWALL RETURN AIR GRILLE. SEE FLOOR PLAN, SHEET M-7, FOR NEW WORK.
- 22 EXISTING 2" CMS AND 2" CWR TO ATTIC SPACE FROM CRAWL SPACE TO REMAIN.
- 23 EXISTING 1-1/2" HWS AND 1-1/2" HWR TO ATTIC SPACE, 2-1/2" HWS AND 2-1/2" HWR TO CRAWL SPACE TO REMAIN.
- 24 EXISTING AIR CONDITIONING CONDENSATE DOWN TO CRAWL SPACE FROM ATTIC TO REMAIN.
- 25 EXISTING 4" CWR AND AIR SEPARATOR TO REMAIN.
- 26 EXISTING EXPANSION TANKS TO REMAIN.
- 27 EXISTING BACKFLOW PREVENTER AND MAKE-UP WATER STATION TO REMAIN.
- 28 EXISTING RELIEF VALVES TO REMAIN.
- 29 REMOVE EXISTING CONVERTOR WITH RELATED PIPING.
- 30 REMOVE EXISTING AIR SEPARATOR.
- 31 REMOVE EXISTING END SUCTION PUMP.
- 32 REMOVE EXISTING RELIEF VALVE.

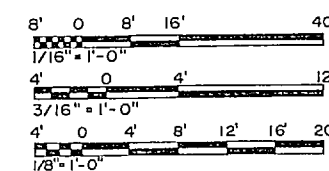


I SECTION
SCALE: 3/16" = 1'-0"



SECOND FLOOR PLAN
SCALE: 1/16" = 1'-0"

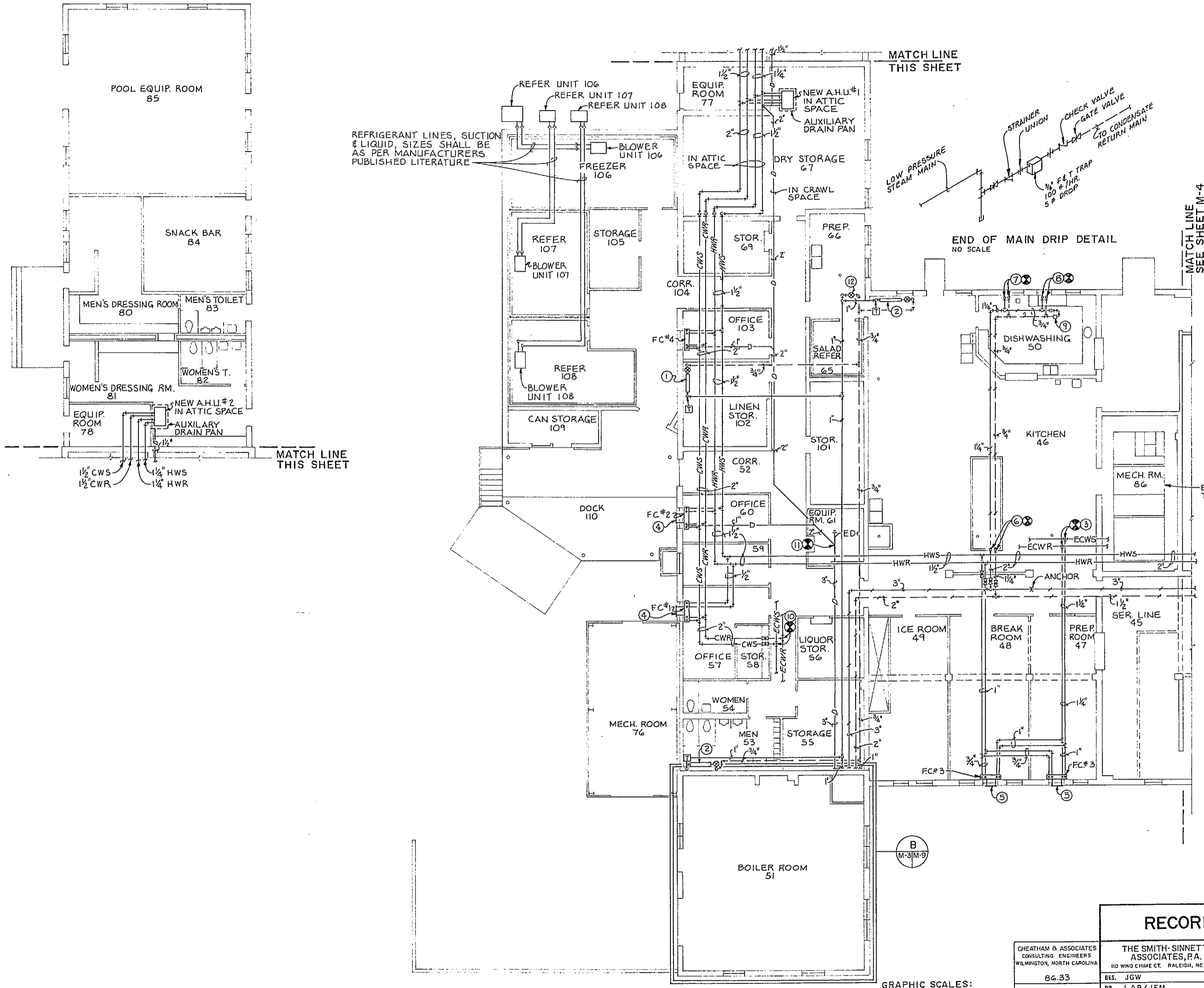
GRAPHIC SCALES:



RECORD DRAWING **M-2**

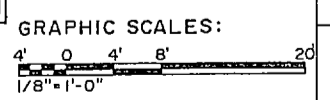
CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA 86.33		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA RENOVATE BUILDING 2615 FLOOR PLAN DEMOLITION	
DES. JGW DR. LAB/JEM CHK. JHC SUBMITTED BY: RJL DESIGN DIR. JEL APPROVED: PWD OR ODC DATE 7-20-87 Satisfactory to:	SIZE F CODE IDENT. NO. 80091 NAVFAC DRAWING NO. 4160634 CONSTR. CONTR. NO. N62470-86-B-9517	SCALE: NOTED SPEC. O5-86-9517 SHEET 54 OF 74	

REVISIONS		
SYM.	DESCRIPTION	DATE
1	AS BUILT DRAWINGS	5/30/81



- KEYED NOTES: (THIS SHEET ONLY)**
- ① NEW LOCATION OF EXISTING 4 TUBE, 16 SECTION, 30" HIGH CAST IRON RADIATOR. PROVIDE NEW PUSH NIPPLES, TIE RODS, THERMOSTATICALLY CONTROLLED RADIATOR VALVE AND TRAP. SEE DETAIL 'A', SHEET H-11.
 - ② EXISTING 5 TUBE, 26 SECTION, 26" HIGH CAST IRON RADIATOR. PROVIDE NEW PUSH NIPPLES, TIE RODS, THERMOSTATICALLY CONTROLLED RADIATOR VALVE AND TRAP. SEE DETAIL 'A', SHEET H-11.
 - ③ PROVIDE NEW 1-1/4" VALVED CONNECTION TO EXISTING CWS AND CWR MAINS DURING SHUT DOWN PERIOD.
 - ④ PROVIDE NEW 2" X 8" BRICK VENT OUTSIDE AIR INTAKE LOUVER, 40 CFM.
 - ⑤ PROVIDE NEW 4" X 8" BRICK VENT OUTSIDE AIR INTAKE LOUVER, 80 CFM.
 - ⑥ PROVIDE NEW 2" STEAM AND 1-1/4" CONDENSATE CONNECTION TO EXISTING RISERS IN CRAWL SPACE SERVING EXISTING COOKING ISLAND.
 - ⑦ PROVIDE NEW 1" STEAM AND 3/4" CONDENSATE CONNECTION TO EXISTING RISERS IN CRAWL SPACE SERVING EXISTING DISHWASHER BOOSTER HEATER.
 - ⑧ PROVIDE NEW 3/4" STEAM AND 3/4" CONDENSATE CONNECTIONS TO EXISTING RISERS IN CRAWL SPACE SERVING EXISTING DISHWASHER.
 - ⑨ NEW MEDIUM PRESSURE END OF MAIN DRIP STATION, SEE DETAIL 'C', SHEET H-11.
 - ⑩ PROVIDE NEW 2" VALVED CONNECTION TO EXISTING CWS AND CWR MAINS DURING SHUT DOWN PERIOD.
 - ⑪ PROVIDE NEW 2" AIR CONDITIONING CONDENSATE DRAIN CONNECTION TO AIR CONDITIONING CONDENSATE DRAIN CONNECTION EXISTING IN CRAWL SPACE.
 - ⑫ PROVIDE NEW END OF MAIN LOW PRESSURE DRIP. SEE DETAIL 'A', THIS SHEET.

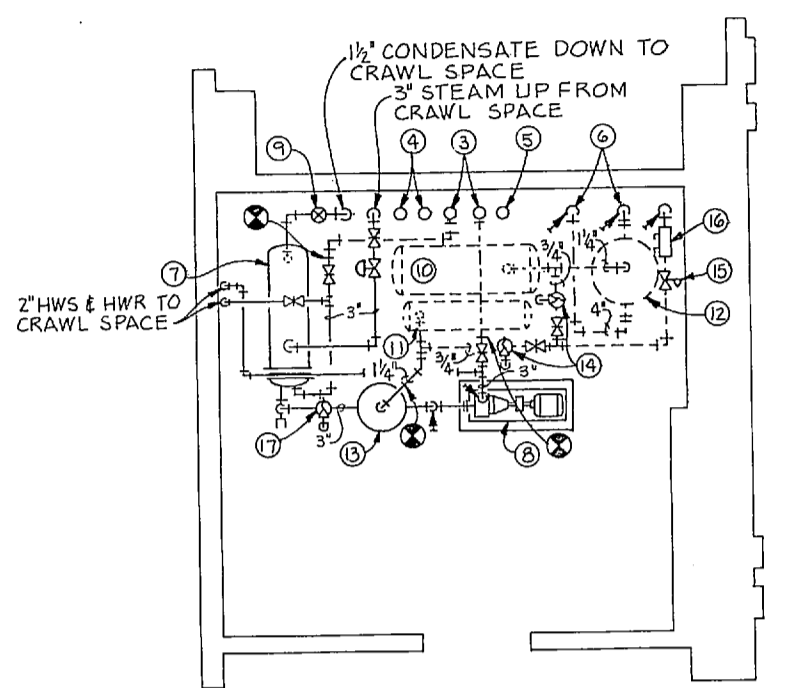
PIPING FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"



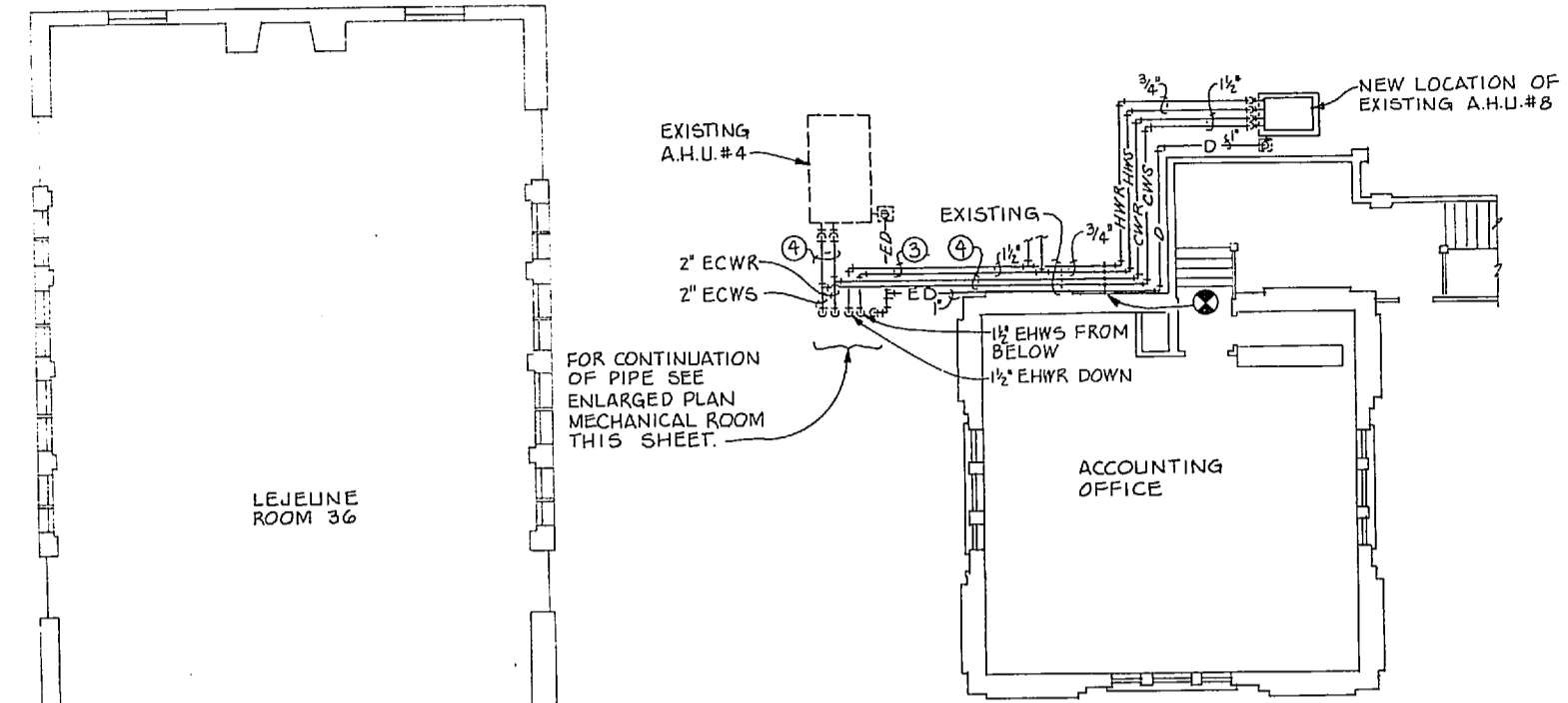
RECORD DRAWING		M-3	
CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA		THE SMITH-SINNETT ASSOCIATES, P.A. 110 WIND CHIME CT. RALEIGH, NC 27615	
86-33		DEPT. OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND	
DES. JGW		MARINE CORPS BASE	
DR. LAB/JEM		CAMP LEJEUNE, NORTH CAROLINA	
CHK. JHC		RENOVATE BUILDING 2615	
SUBMITTED BY: RJL		PIPING FLOOR PLAN - AREA A	
DESIGN DIR. JEM		NEW WORK	
APPROVED: PWO OR OICC		DATE	SIZE
7-20-81		DATE	CODE IDENT. NO.
SATISFACTORY TO:		DATE	NAVFAC DRAWING NO.
			4160635
			CONSTR. CONTR. NO. N62470-86-B-9517
			SCALE: NOTED SPEC. 05-86-9517 SHEET 55 OF 74



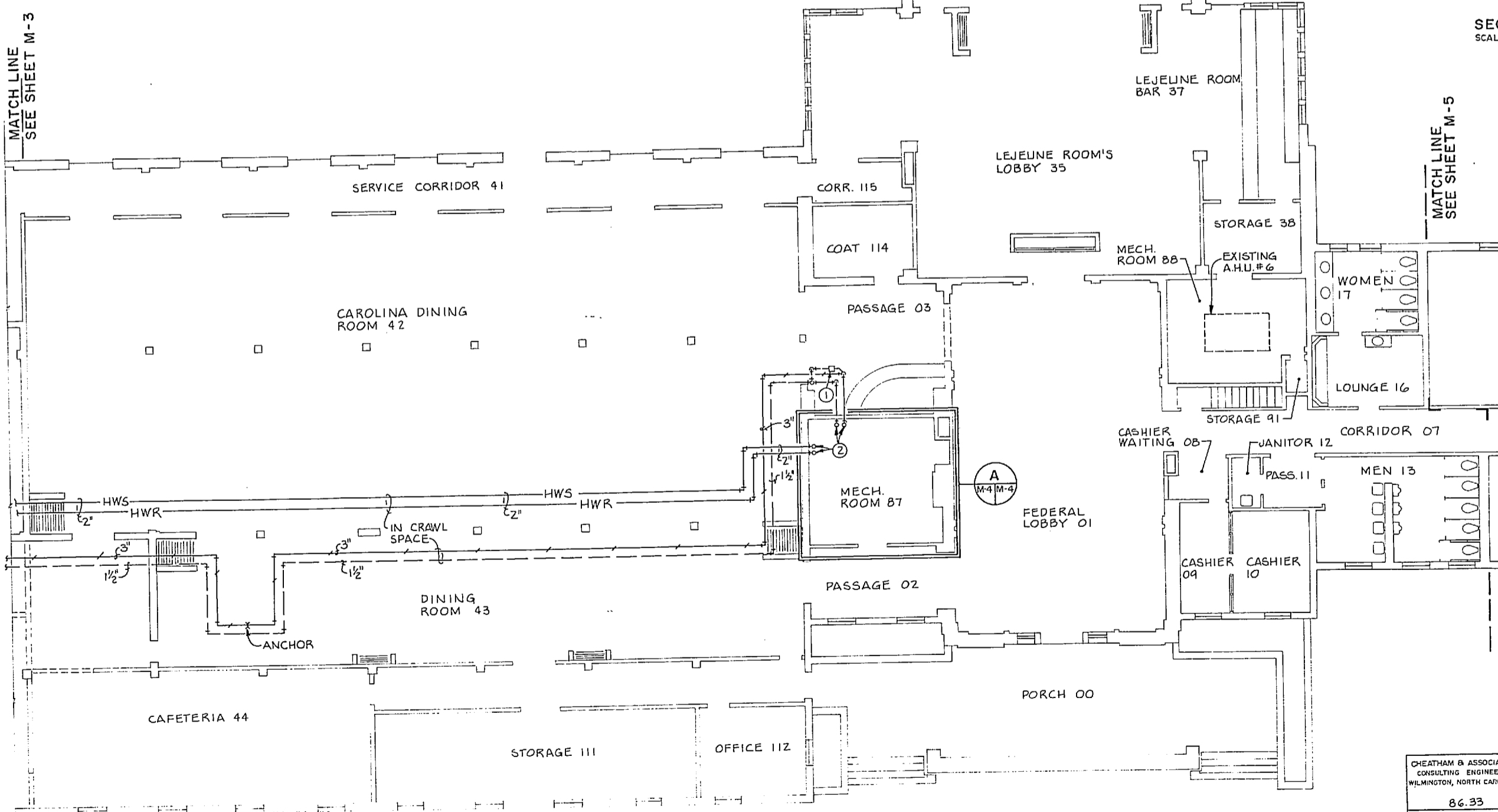
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	5/30/81	



A ENLARGED PLAN MECHANICAL ROOM # 87
SCALE: 1/4" = 1'-0"



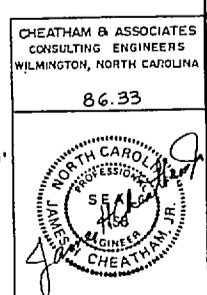
B SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



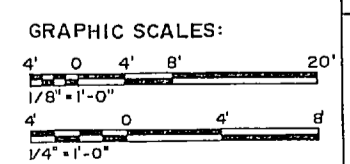
B PIPING FLOOR PLAN - AREA B
SCALE: 1/8" = 1'-0"

KEYED NOTES: (THIS SHEET ONLY)

- 1 NEW END OF MAIN DRIP, 100 LBS/HR, 45 PSIG DROP. SEE DETAIL 'C', SHEET M-11.
- 2 SEE ENLARGED MECHANICAL ROOM PLAN, DETAIL 'A', THIS SHEET FOR CONTINUATION.
- 3 EXISTING HWS AND HWR TO REMAIN.
- 4 EXISTING CWS AND CWR TO REMAIN.
- 5 EXISTING AIR CONDITIONING CONDENSATE DRAIN DOWN FROM ATTIC SPACE TO REMAIN.
- 6 EXISTING 4" CWR TO AND FROM CRAWL SPACE TO REMAIN.
- 7 PROVIDE NEW STEAM TO WATER CONVERTOR, 98.5 GPM, 152.8° F. EMT. 180° F. INT, 1341 LBS/HR 45 PSIG STEAM TO SHELL. SEE CONVERTOR PIPING SCHEMATIC, DETAIL 'A', SHEET M-5.
- 8 PROVIDE NEW END SUCTION PUMP, 98.5 GPM AT 50' TDH, 63% EFF., 1750 RPM, 3 HP, 480 VOLT, THREE PHASE MOTOR.
- 9 NEW F & T TRAP, 3350 LBS/HR WITH 40 PSIG PRESSURE DROP. SEE CONVERTOR PIPING SCHEMATIC, DETAIL 'B', THIS SHEET.
- 10 EXISTING CHILLED WATER EXPANSION TANK TO REMAIN.
- 11 EXISTING HOT WATER EXPANSION TANK TO REMAIN.
- 12 EXISTING CHILLED WATER AIR SEPARATOR TO REMAIN.
- 13 PROVIDE NEW 3" AIR SEPARATOR WITH STRAINER, 1" GATE VALVE BLOWDOWN VALVE AND PIPE STAND. ANCHOR PIPE STAND TO FLOOR WITH LEAD ANCHOR SHIELDS.
- 14 EXISTING PRESSURE RELIEF VALVE TO REMAIN.
- 15 EXISTING PRESSURE REDUCING VALVE TO REMAIN.
- 16 EXISTING BACKFLOW PREVENTER TO REMAIN.
- 17 PROVIDE NEW TEMPERATURE RELIEF VALVE, 1700 MBH, SET AT 30 PSIG DISCHARGE PRESSURE.

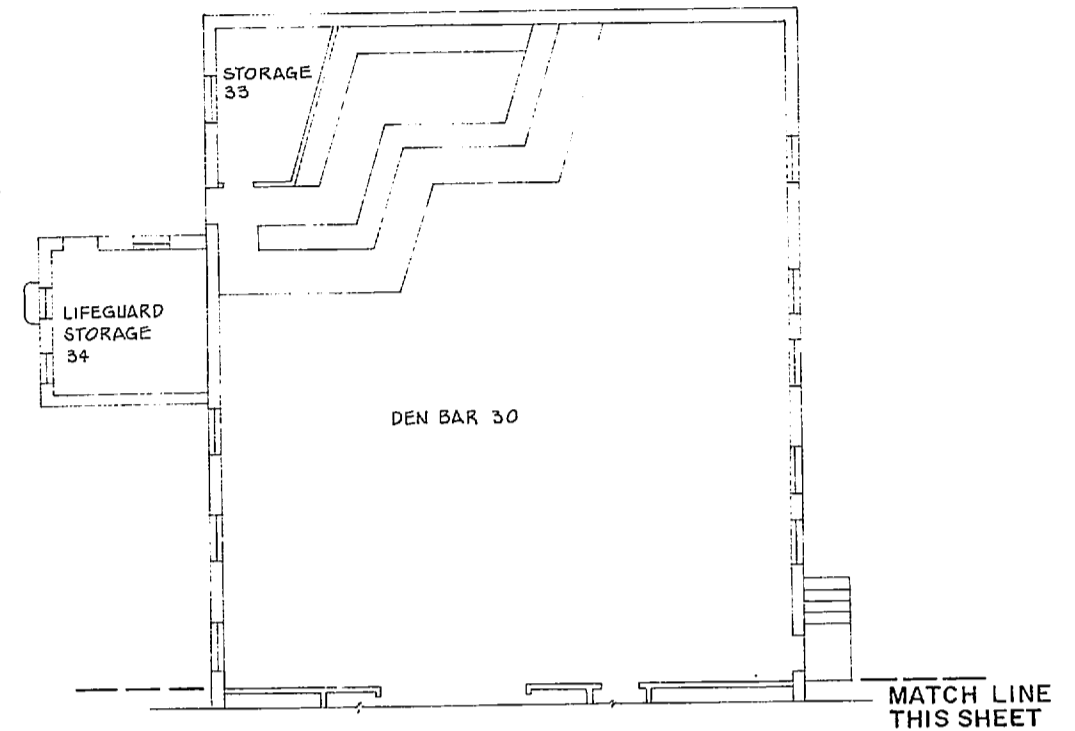
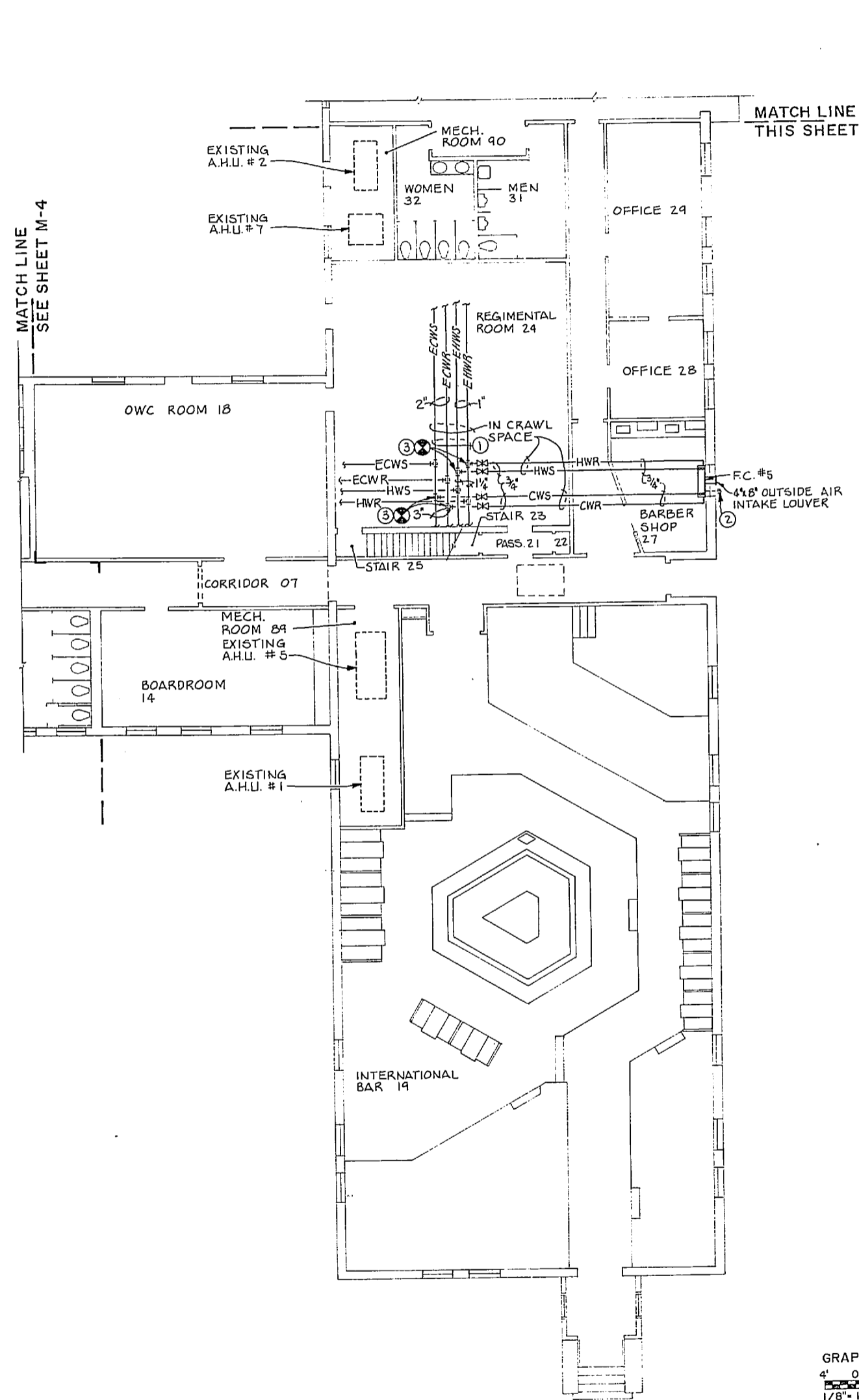


RECORD DRAWING		M-4	
CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA 86.33		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
THE SMITH-SINNETT ASSOCIATES, P.A. 110 WIND CHIME CT. RALEIGH, NC 27615		RENOVATE BUILDING 2615 PIPING FLOOR PLAN AREA B NEW WORK	
DES. JGW DR. LAB / JEM CHK. JHC SUBMITTED BY: R.J.L. DESIGN DIR. <i>[Signature]</i>		NAVFAC DRAWING NO. 4160636	
APPROVED: PWD OR DICG <i>[Signature]</i> (7-20-81)		SIZE F	CODE IDENT. NO. 80091
SATISFACTORY TO:		CONSTR. CONTR. NO. N62470-86-B-9517	SHEET 56 OF 74



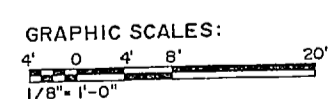


REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	5/30/89	



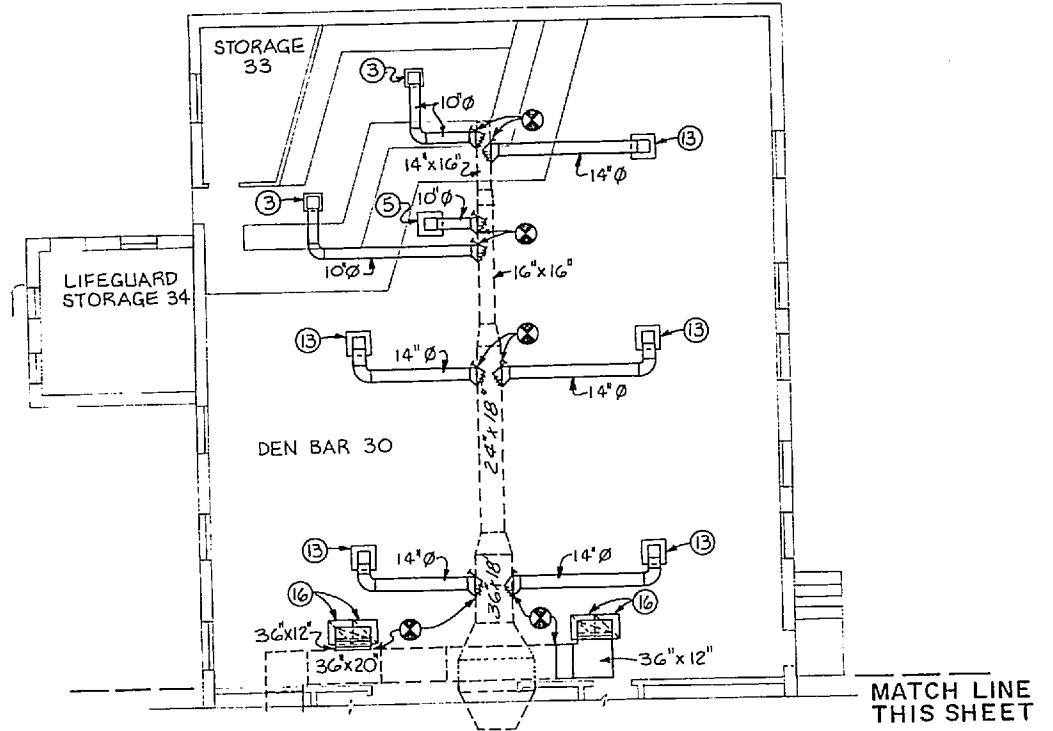
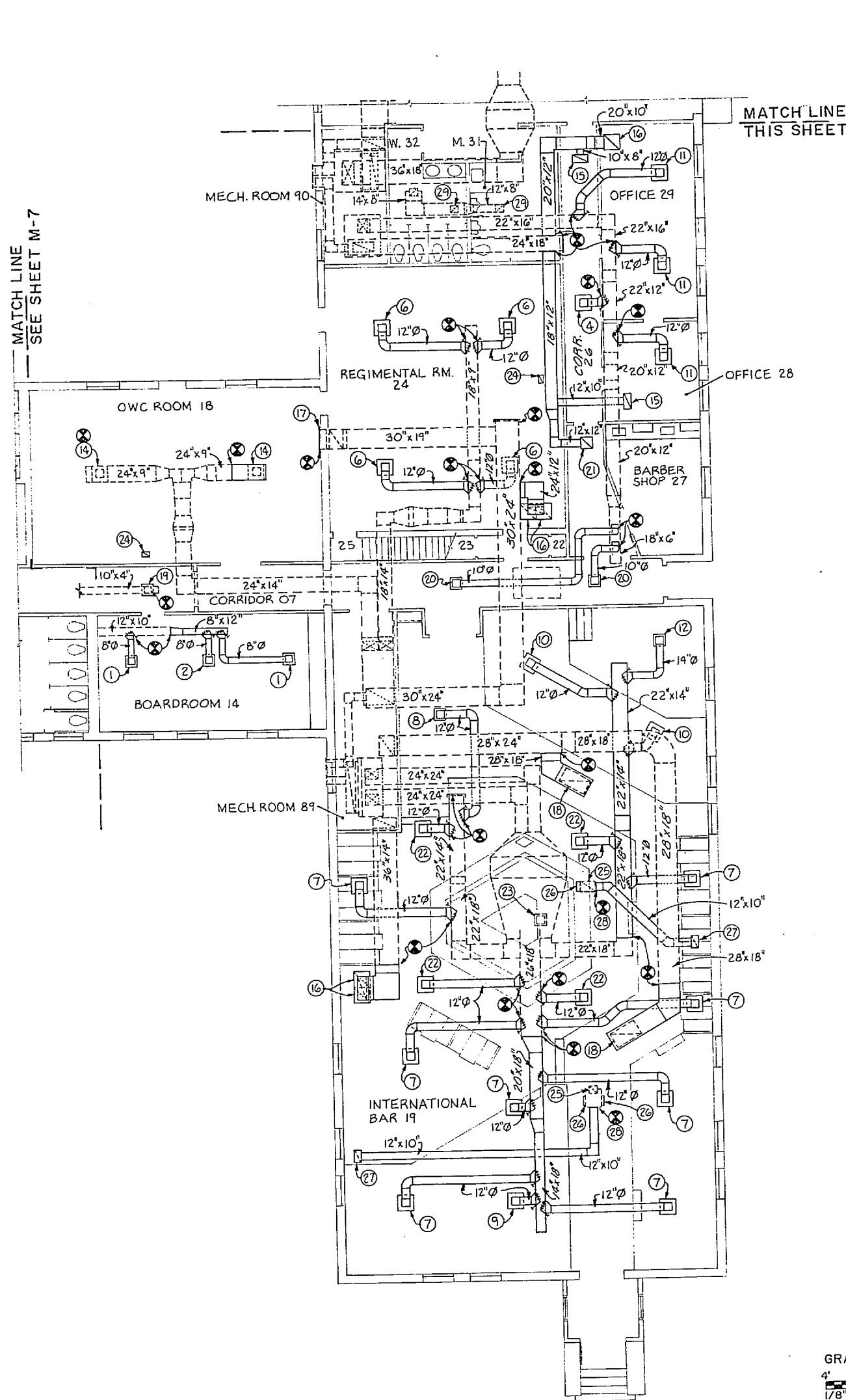
- KEYED NOTES: (THIS SHEET ONLY)**
- ① EXISTING PIPING IN CRAWL SPACE.
 - ② PIPE CONDENSATE THRU WALL AND SPILL ON GRADE WITH TURNED DOWN ELBOW.
 - ③ PROVIDE NEW 3/4" VALVED CONNECTIONS TO EXISTING MAINS DURING BUILDING SHUT-DOWN PERIOD.

PIPING FLOOR PLAN-AREA C
SCALE: 1/8" = 1'-0"



RECORD DRAWING		M-5	
CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA 86.33		THE SMITH-SINNETT ASSOCIATES, P.A. 110 WIND CHIME CT. RALEIGH, NC 27615	
DES. JGW DR. LAB/JEM CHK. JHC SUBMITTED BY: RJL DESIGN DIR. JEC		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA RENOVATE BUILDING 2615 PIPING FLOOR PLAN-AREA C NEW WORK	
APPROVED: PWO DR DICC DATE: 7-20-87 SATISFACTORY TO:		SIZE: F CODE IDENT. NO.: 80091	NAVFAC DRAWING NO.: 4160637 CONSTR. CONTR. NO. N62470-86-8-9517 SCALE: NOTED SPEC. 05-86-9517 SHEET 57 OF 74

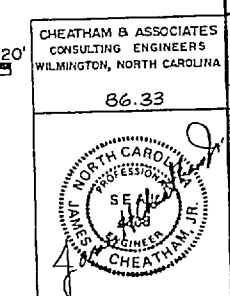
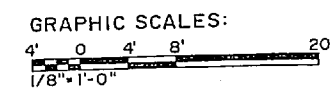
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	03/08/87	



KEYED NOTES: (THIS SHEET ONLY)

- 1 NEW CEILING SUPPLY AIR DIFFUSER, 9" X 9" NECK, 200 CFM, 4 WAY BLOW.
- 2 NEW CEILING SUPPLY AIR DIFFUSER, 9" X 9" NECK, 220 CFM, 4 WAY BLOW.
- 3 NEW CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 300 CFM, 4 WAY BLOW.
- 4 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 342 CFM, 2 WAY BLOW.
- 5 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 350 CFM, 4 WAY BLOW.
- 6 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 464 CFM, 4 WAY BLOW.
- 7 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 545 CFM, 4 WAY BLOW.
- 8 NEW CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 545 CFM, 4 WAY BLOW.
- 9 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 560 CFM, 4 WAY BLOW.
- 10 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 575 CFM, 4 WAY BLOW.
- 11 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 583 CFM, 4 WAY BLOW.
- 12 NEW CEILING SUPPLY AIR DIFFUSER, 15" X 15" NECK, 750 CFM, 4 WAY BLOW.
- 13 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 15" X 15" NECK, 950 CFM, 4 WAY BLOW.
- 14 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 21" X 21" NECK, 1155 CFM, 4 WAY BLOW.
- 15 NEW 1' X 2' LAY-IN CEILING RETURN AIR GRILLE WITH 10" X 20" NECK.
- 16 NEW 2' X 2' LAY-IN CEILING RETURN AIR GRILLE WITH 20" X 20" NECK.
- 17 NEW 36" X 24" SIDEWALL RETURN AIR GRILLE.
- 18 NEW 24" X 42" CEILING RETURN AIR GRILLE.
- 19 NEW CEILING SUPPLY AIR DIFFUSER, 9" X 9" NECK, 150 CFM, 2 WAY BLOW.
- 20 NEW CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 342 CFM, 2 WAY BLOW.
- 21 NEW 12" X 12" CEILING RETURN AIR GRILLE WITH 10" X 20" NECK.
- 22 NEW 24" X 24" LAY-IN CEILING SUPPLY AIR DIFFUSER, 15" X 15" NECK, 703 CFM, 4 WAY BLOW.
- 23 NEW CEILING SUPPLY AIR DIFFUSER, 15" X 15" NECK, 703 CFM, 4 WAY BLOW.
- 24 NEW 10" X 6" CEILING EXHAUST GRILLE WITH 10" X 6" DUCT CONNECTION TO EXISTING 10" X 6" EXHAUST DUCT IN ATTIC. (155 CFM)
- 25 EXISTING EXHAUST FAN IN ATTIC SPACE. (625 CFM)
- 26 PROVIDE NEW 12" X 6" AIR TIGHT CLOSURE ON EXISTING PLENUM.
- 27 PROVIDE NEW 12" X 18" CEILING EXHAUST GRILLE. (625 CFM)
- 28 PROVIDE NEW 12" X 10" EXHAUST DUCT CONNECTION TO EXISTING PLENUM.
- 29 PROVIDE NEW 12" X 12" CEILING EXHAUST AIR GRILLE. (300 CFM)

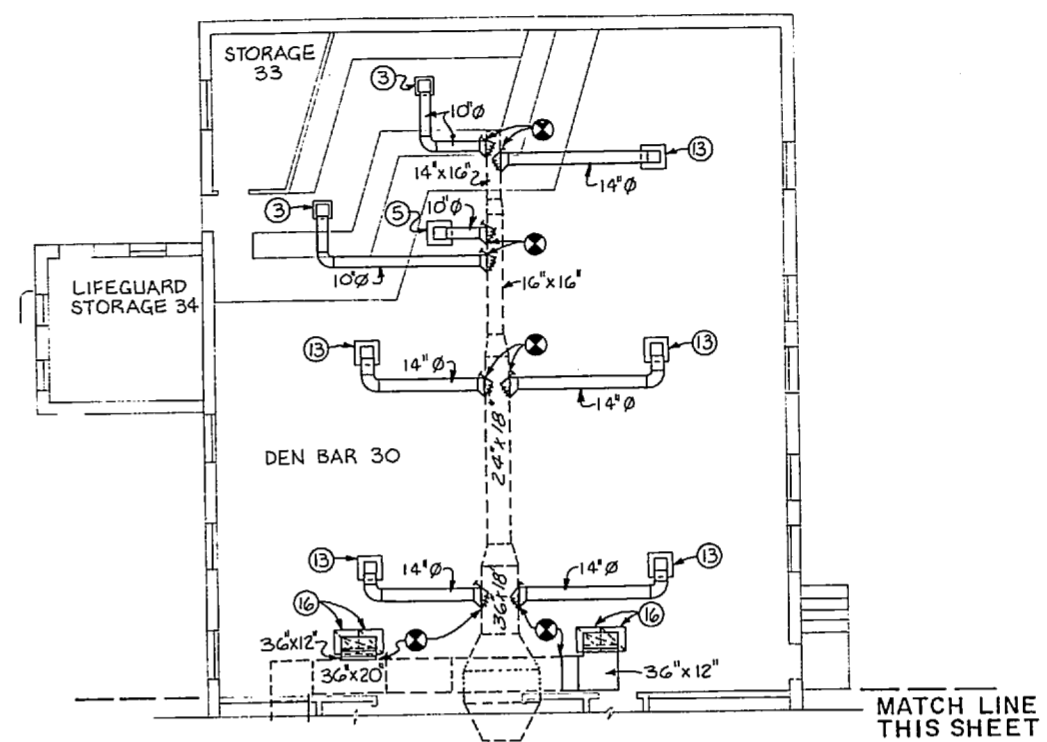
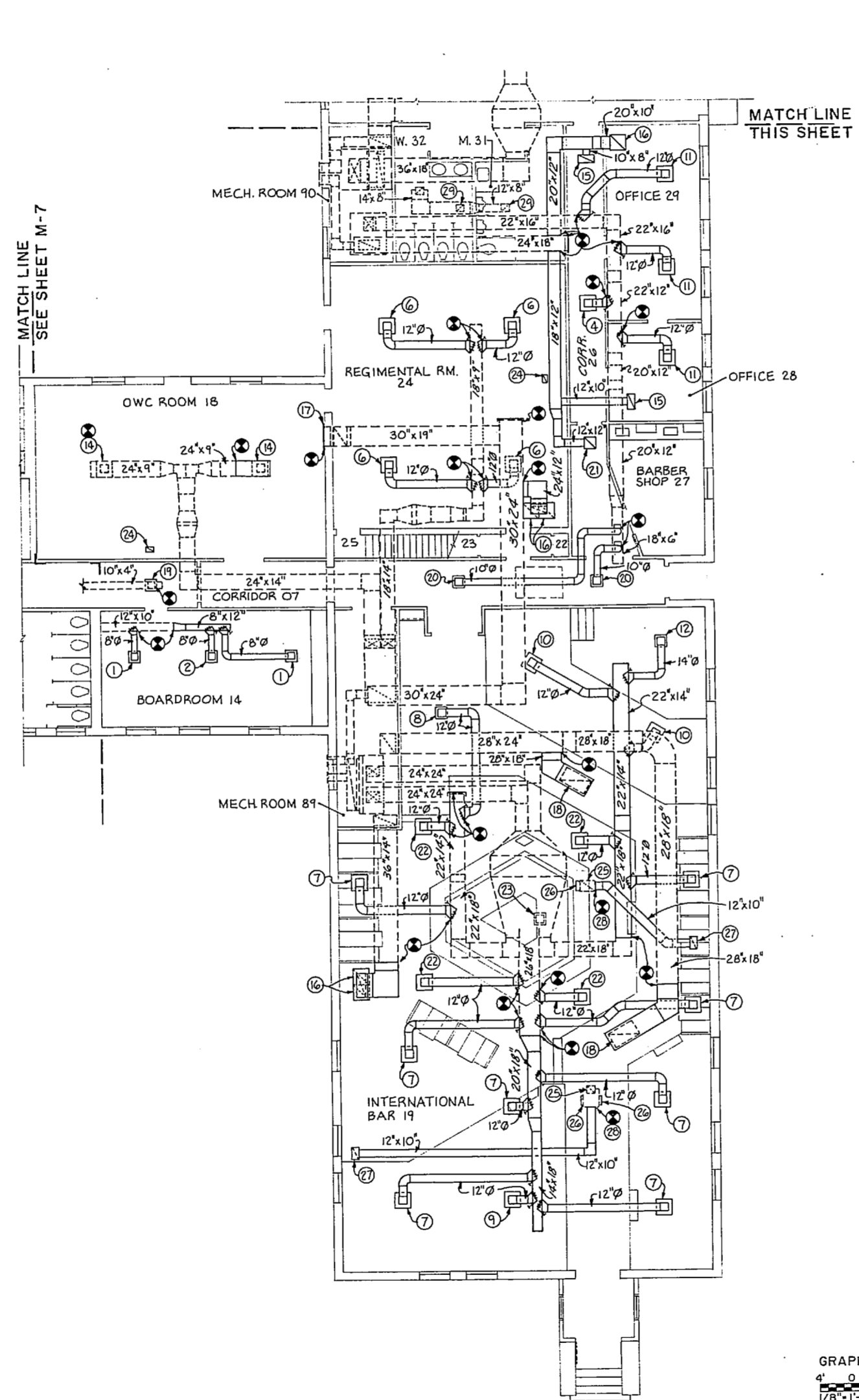
DUCTWORK FLOOR PLAN-AREA C
SCALE: 1/8" = 1'-0"



RECORD DRAWING		M-8	
CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DR. JGW DR. LAB/JEM CHK. JHC SUBMITTED BY: RJL		RENOVATE BUILDING 2615 DUCTWORK FLOOR PLAN-AREA C NEW WORK	
DESIGN DIR. [Signature] APPROVED: PWD OR DIC [Signature] DATE 7-30-87 SATISFACTORY TO: DATE		SIZE F CODE IDENT. NO. 80091	NAVFAC DRAWING NO. 4160640 CONSTR. CONTR. NO. N62470-86-B-9517 SHEET 60 OF 74

James
Carter

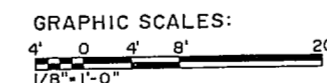
REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	9/30/87	



KEYED NOTES: (THIS SHEET ONLY)

- 1 NEW CEILING SUPPLY AIR DIFFUSER, 9" X 9" NECK, 200 CFM, 4 WAY BLOW.
- 2 NEW CEILING SUPPLY AIR DIFFUSER, 9" X 9" NECK, 220 CFM, 4 WAY BLOW.
- 3 NEW CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 300 CFM, 4 WAY BLOW.
- 4 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 342 CFM, 2 WAY BLOW.
- 5 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 350 CFM, 4 WAY BLOW.
- 6 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 464 CFM, 4 WAY BLOW.
- 7 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 545 CFM, 4 WAY BLOW.
- 8 NEW CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 545 CFM, 4 WAY BLOW.
- 9 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 560 CFM, 4 WAY BLOW.
- 10 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 575 CFM, 4 WAY BLOW.
- 11 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 583 CFM, 4 WAY BLOW.
- 12 NEW CEILING SUPPLY AIR DIFFUSER, 15" X 15" NECK, 750 CFM, 4 WAY BLOW.
- 13 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 15" X 15" NECK, 950 CFM, 4 WAY BLOW.
- 14 NEW 2' X 2' LAY-IN CEILING SUPPLY AIR DIFFUSER, 21" X 21" NECK, 1155 CFM, 4 WAY BLOW.
- 15 NEW 1' X 2' LAY-IN CEILING RETURN AIR GRILLE WITH 10" X 20" NECK.
- 16 NEW 2' X 2' LAY-IN CEILING RETURN AIR GRILLE WITH 20" X 20" NECK.
- 17 NEW 36" X 24" SIDEWALL RETURN AIR GRILLE.
- 18 NEW 24" X 42" CEILING RETURN AIR GRILLE.
- 19 NEW CEILING SUPPLY AIR DIFFUSER, 9" X 9" NECK, 150 CFM, 2 WAY BLOW.
- 20 NEW CEILING SUPPLY AIR DIFFUSER, 12" X 12" NECK, 342 CFM, 2 WAY BLOW.
- 21 NEW 12" X 12" CEILING RETURN AIR GRILLE WITH 10" X 20" NECK.
- 22 NEW 24" X 24" LAY-IN CEILING SUPPLY AIR DIFFUSER, 15" X 15" NECK, 703 CFM, 4 WAY BLOW.
- 23 NEW CEILING SUPPLY AIR DIFFUSER, 15" X 15" NECK, 703 CFM, 4 WAY BLOW.
- 24 NEW 10" X 6" CEILING EXHAUST GRILLE WITH 10" X 6" DUCT CONNECTION TO EXISTING 10" X 6" EXHAUST DUCT IN ATTIC. (155 CFM)
- 25 EXISTING EXHAUST FAN IN ATTIC SPACE. (625 CFM)
- 26 PROVIDE NEW 12" X 6" AIR TIGHT CLOSURE ON EXISTING PLENUM.
- 27 PROVIDE NEW 12" X 18" CEILING EXHAUST GRILLE. (625 CFM)
- 28 PROVIDE NEW 12" X 10" EXHAUST DUCT CONNECTION TO EXISTING PLENUM.
- 29 PROVIDE NEW 12" X 12" CEILING EXHAUST AIR GRILLE. (300 CFM)

DUCTWORK FLOOR PLAN-AREA C
SCALE: 1/8" = 1'-0"



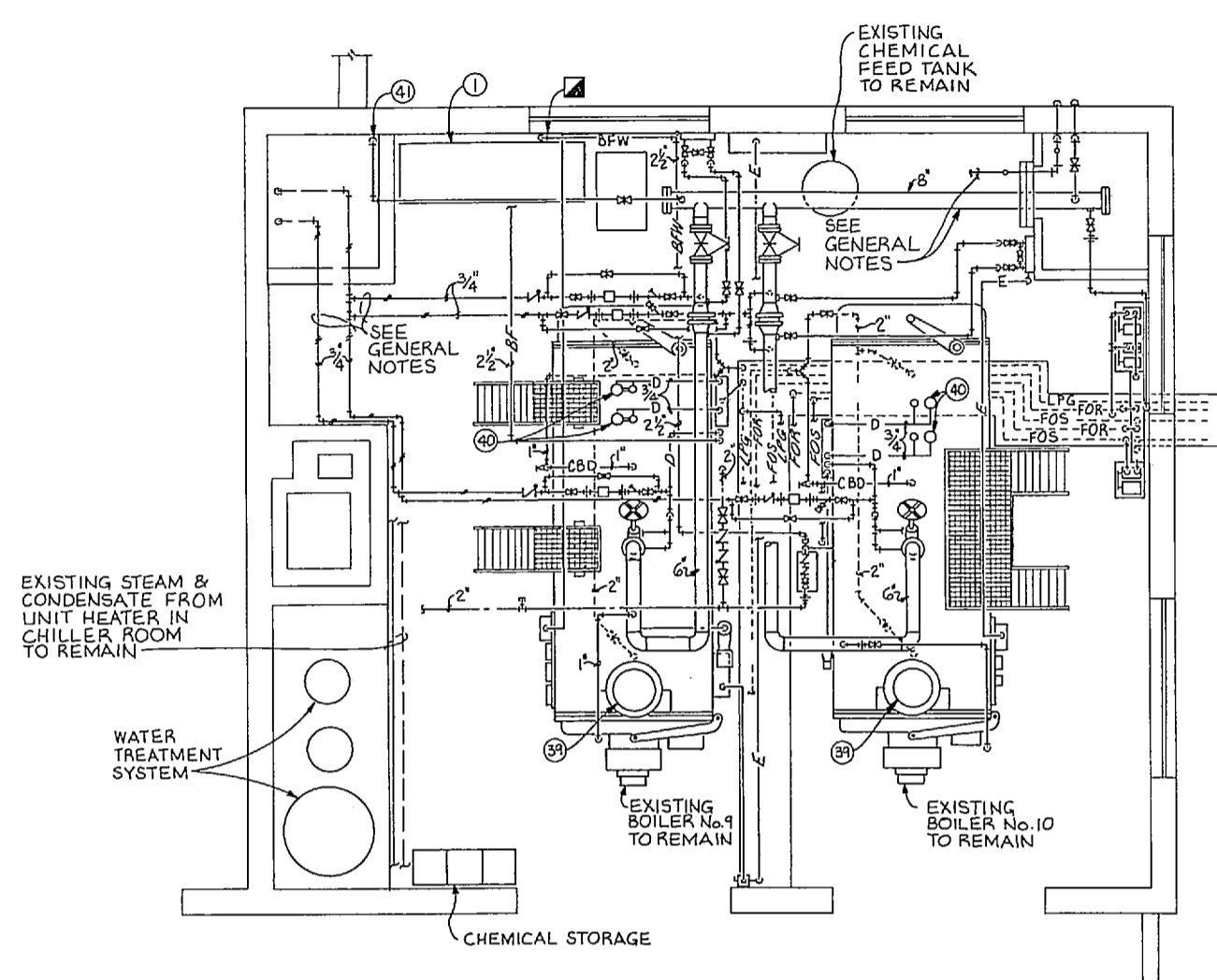
CHEATHAM & ASSOCIATES
CONSULTING ENGINEERS
WILMINGTON, NORTH CAROLINA
86.33

THE SMITH-SINNETT ASSOCIATES, P.A.
110 WIND CHIME CT. RALEIGH, NC 27615
DES. JGW
DR. LAB/JEM
CHK. JHC
SUBMITTED BY: RJL
DESIGN DIR. JGC
APPROVED: PWO OR DIC
DATE 7-30-87

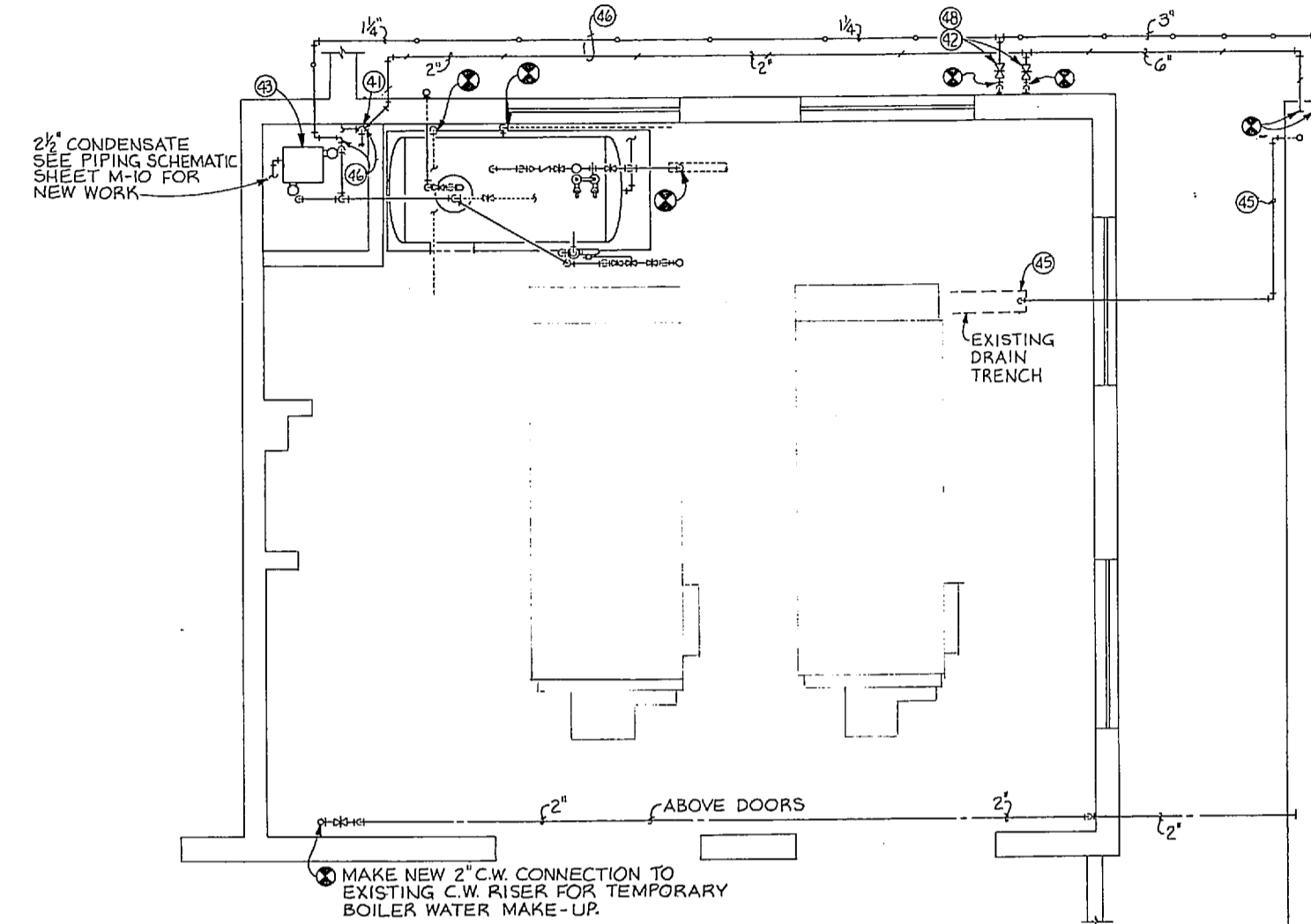


RECORD DRAWING		M-8	
DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND			
MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA			
RENOVATE BUILDING 2615			
DUCTWORK FLOOR PLAN-AREA C NEW WORK			
SIZE	CODE IDENT. NO.	NAVFAC DRAWING NO.	
F	80091	4160840	
SATISFACTORY TO:	DATE	CONSTR. CONTR. NO.	NG2470-86-9-9517
		SCALE: NOTED	SPEC. 05-86-9517 SHEET 60 OF 74

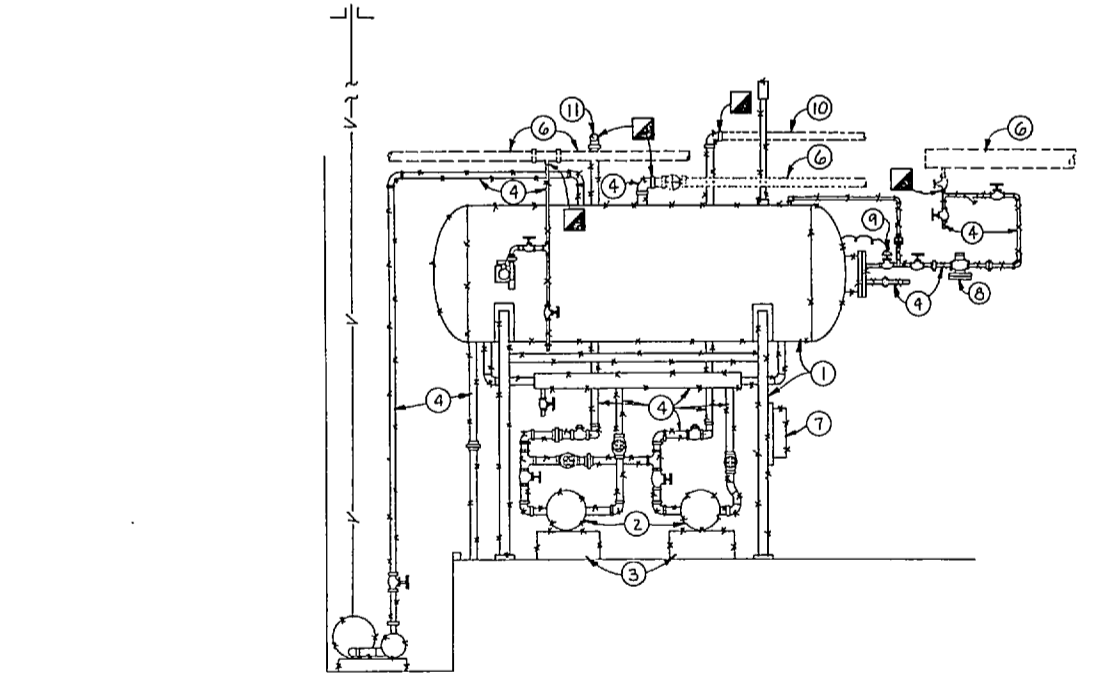
REVISIONS		
SYM.	DESCRIPTION	DATE
1	AS BUILT DRAWINGS	5/20/87



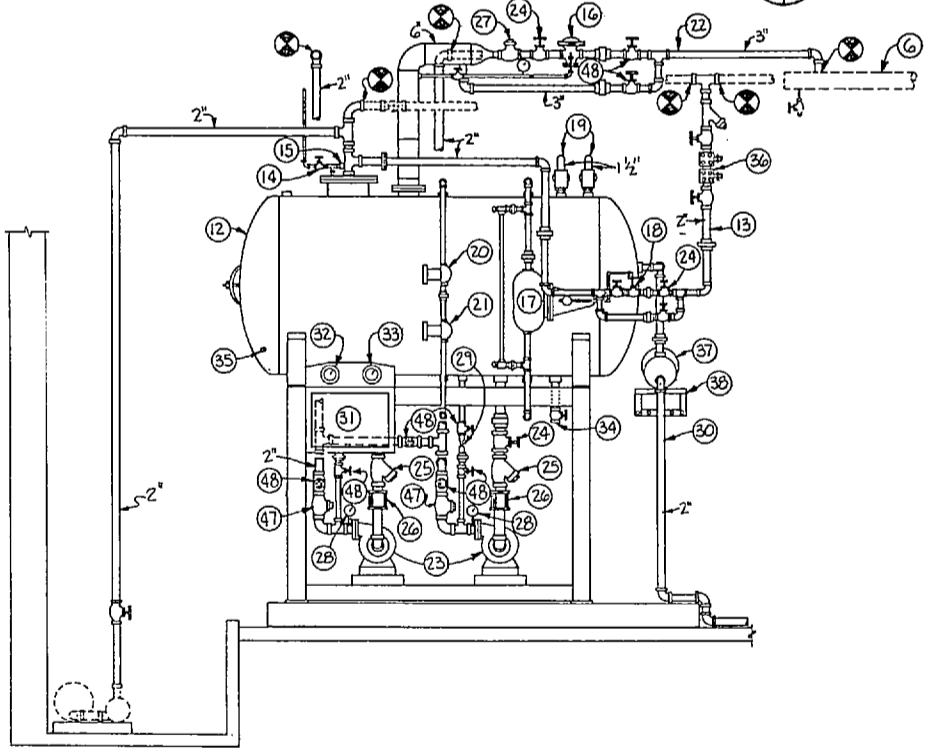
A BOILER ROOM PLAN - DEMOLITION
SCALE: 1/4" = 1'-0"



B BOILER ROOM PLAN - NEW WORK
SCALE: 1/4" = 1'-0"



A EXISTING FEEDWATER RECEIVER
NO SCALE



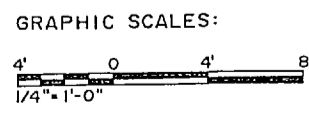
B NEW DEAERATOR TANK
NO SCALE

KEYED NOTES: (THIS SHEET ONLY)

- 1 REMOVE EXISTING BOILER FEED WATER STORAGE TANK WITH RELATED PIPING AND STAND. SEE EXISTING FEEDWATER RECEIVER, DETAIL 'A', THIS SHEET.
- 2 REMOVE EXISTING BOILER FEED WATER PUMP.
- 3 REMOVE EXISTING CONCRETE PUMP BASE.
- 4 REMOVE EXISTING PIPING.
- 5 REMOVE EXISTING SIMPLEX CONDENSATE PUMP, RELATED PIPING AND CONCRETE PAD.
- 6 EXISTING PIPING TO REMAIN.
- 7 REMOVE EXISTING ELECTRICAL CONTROL PANEL WITH RELATED STARTERS AND WIRING TO DISCONNECT SWITCH.
- 8 REMOVE EXISTING PRESSURE REDUCING VALVE.
- 9 REMOVE EXISTING CONTROL VALVE.
- 10 EXISTING PUMPED BOILER FEED WATER TO BOILER NO. 10 TO REMAIN.
- 11 EXISTING PUMPED BOILER FEED WATER TO BOILER NO. 9 TO REMAIN.
- 12 NEW 600 GALLON DEAERATOR TANK (TO OVERFLOW). SEE NEW DEAERATOR TANK, DETAIL 'B', THIS SHEET.
- 13 2" COLD WATER MAKE-UP INLET.
- 14 MANUAL AIR VENT.
- 15 AUTOMATIC AIR VENT.
- 16 NEW STEEL STEAM PRESSURE REDUCING VALVE, 3,000 LBS/HR, 100 PSIG INLET, 45 PSIG OUTLET.
- 17 WATER LEVEL CONTROLLER.
- 18 1" WATER INLET CONTROL VALVE, 45 GPM, SET AT 45 PSIG.
- 19 RELIEF VALVE, 1875 LBS/HR, SET AT 50 PSIG.
- 20 HIGH WATER ALARM.
- 21 LOW WATER ALARM.
- 22 NEW 3 STEAM SUPPLY.
- 23 BOILER FEED WATER PUMP, 50 GPM, 280' TOTAL DISCHARGE HEAD, 3450 RPM, 15 HP, 208 VOLT, 3 PHASE.
- 24 GATE VALVE.
- 25 STRAINER.
- 26 SUCTION FLEXIBLE COUPLING.
- 27 CHECK VALVE.
- 28 PRESSURE GAUGE, 0-200 PSI.
- 29 BY-PASS ORIFICE.
- 30 OVERFLOW DRAINER.
- 31 CONTROL PANEL.
- 32 CONTROL PANEL PRESSURE GAUGE.
- 33 CONTROL PANEL TEMPERATURE GAUGE.
- 34 2 TANK DRAIN.
- 35 3/4" PORT FOR OXYGEN SCAVENGER.
- 36 2" REDUCED PRESSURE BACKFLOW PREVENTER.
- 37 OVERFLOW VALVE.
- 38 WALL MOUNTED SUPPORT BRACKET FOR OVERFLOW VALVE.
- 39 EXISTING BOILER BREACHING AND STACK TO REMAIN. REMOVE DURING DEMOLITION OF EXISTING ROOF AND PROVIDE FOR REINSTALLATION OF EXISTING BREACHING AND STACK DURING NEW CONSTRUCTION.
- 40 EXISTING BOILER SAFETY RELIEF VALVE VENT PIPING UP THRU ROOF TO REMAIN. PROTECT DURING REMOVAL OF EXISTING ROOF AND INSTALLATION OF NEW ROOF.
- 41 EXISTING HIGH PRESSURE STEAM RISER, SEE REDUCING STATION PIPING SCHEMATIC, DETAIL 'A', SHEET M-10 FOR DEMOLITION AND NEW WORK.
- 42 PROVIDE NEW 6" STEAM VALVE AND 3" CONDENSATE VALVE FOR CONNECTION TO TEMPORARY BOILER WITH FEED WATER SYSTEM. PROVIDE BLIND FLANGE AT COMPLETION OF PROJECT.

- 43 PROVIDE NEW DUPLEX CONDENSATE PUMP, 14 GALLON RECEIVER, 12 GPM AT 50 PSIG DISCHARGE PRESSURE, 1-1/2 HP, 208 VOLT, 3 PHASE MOTORS.
- 44 2" BY-PASS GATE VALVE. NORMALLY CLOSED.
- 45 BLOW DOWN FROM TEMPORARY BOILER SHALL BE PIPED, FULL SIZE, THRU BOILER ROOM WALL AND DISCHARGED INTO EXISTING DRAIN TRENCH.
- 46 PROVIDE TEMPORARY 2" HIGH PRESSURE STEAM CONNECTION TO EXISTING MAIN AT PRESSURE REDUCING STATION AND TEMPORARY 1-1/4" PUMPED CONDENSATE FROM CONDENSATE PUMP FOR BUILDING OPERATION.
- 47 NEW STEEL CHECK VALVE.
- 48 NEW STEEL GATE VALVE.

- GENERAL NOTES:**
- A. REMOVE ASBESTOS INSULATION FROM BOILER NO. 9 PIPING, STEAM HEADER, AND EXISTING PUMPED CONDENSATE MAIN. PROVIDE NEW INSULATION.
 - B. ALL BOILER ROOM PIPING AND EQUIPMENT TO REMAIN SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION OF NEW ROOF STRUCTURE. PIPING SHALL BE DISCONNECTED FROM BOILERS DURING DEMOLITION AND NEW CONSTRUCTION. PROVIDE TEMPORARY SUPPORTS FOR ALL PIPING. PROVIDE RECONNECTION OF ALL PIPING DISASSEMBLED FOR DEMOLITION. PROVIDE NEW HANGER ROD ASSEMBLIES FOR ALL PIPE HANGERS. SEE TYPICAL HANGER, DETAIL 'H', SHEET M-11.
 - C. ALL PIPING SHALL BE TESTED UNDER NORMAL OPERATING CONDITIONS AFTER CONSTRUCTION TO PROVIDE FOR A TIGHT OPERATING PIPING SYSTEM.



RECORD DRAWING M-9

CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA 86.33	THE SMITH-SINNETT ASSOCIATES, P.A. 110 WIND CHIME CT. RALEIGH, NC 27610	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	DES: JGW DR: LAB/JEM CHK: JHC SUBMITTED BY: RJL DESIGN DIR: JEL APPROVED: PWO OR DICC DATE 7-20-87 SATISFACTORY TO:	RENOVATE BUILDING 2615 BOILER ROOM PLANS DEMOLITION & NEW WORK NAVFAC DRAWING NO. 4160641 CONSTR. CONTR. NO. N62470-86-B-9517 SCALE: NOTED SPEC. 05-86-9517 SHEET 61 OF 74



REVISIONS			
SYM.	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	5/30/87	

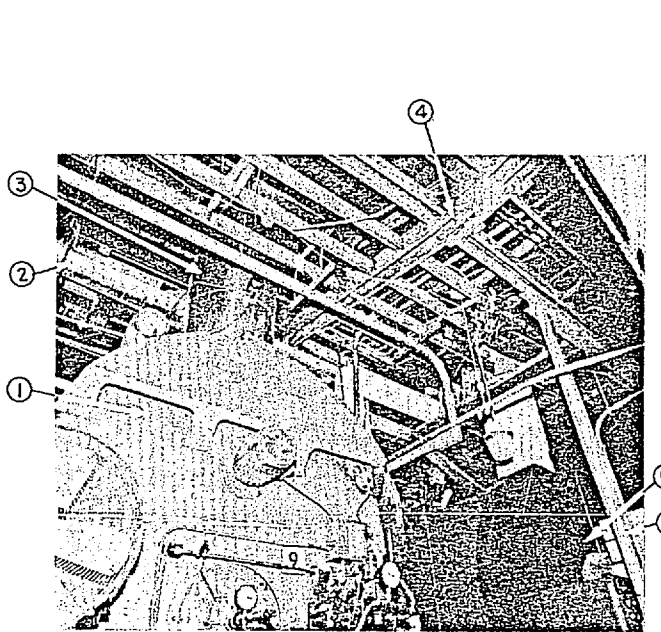


PHOTO-BOILER No. 9
(LOOKING NORTHWEST)
NO SCALE

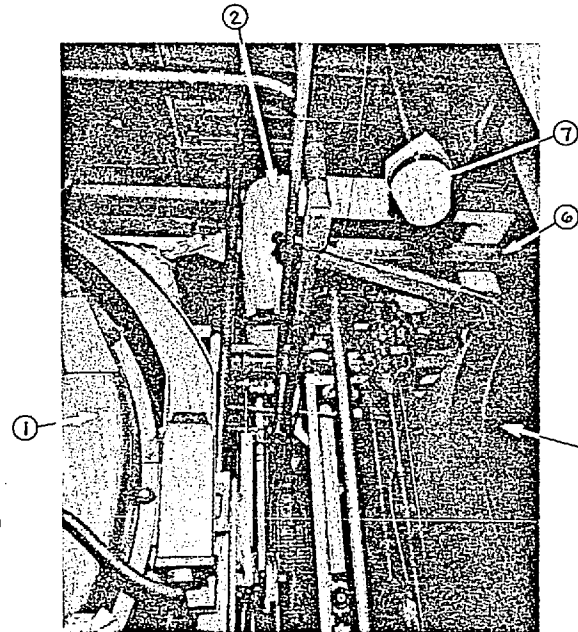


PHOTO-BETWEEN FRONT OF BOILERS
(LOOKING NORTHWEST)
NO SCALE

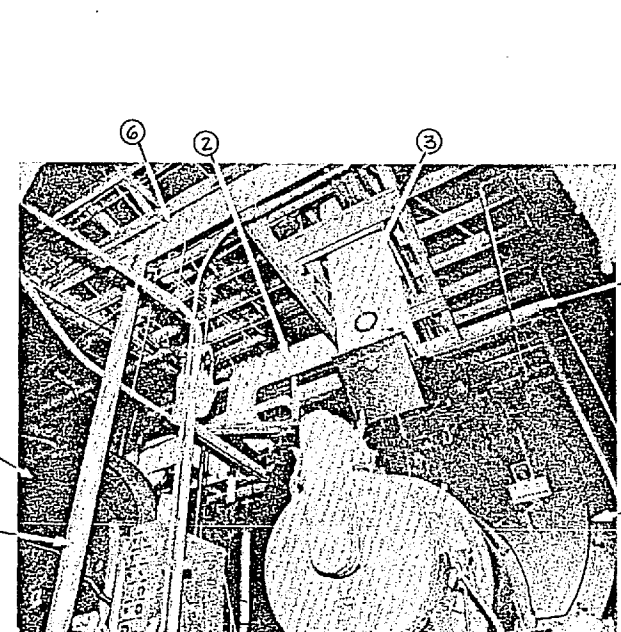


PHOTO-BOILER No. 10
(LOOKING NORTHWEST)
NO SCALE

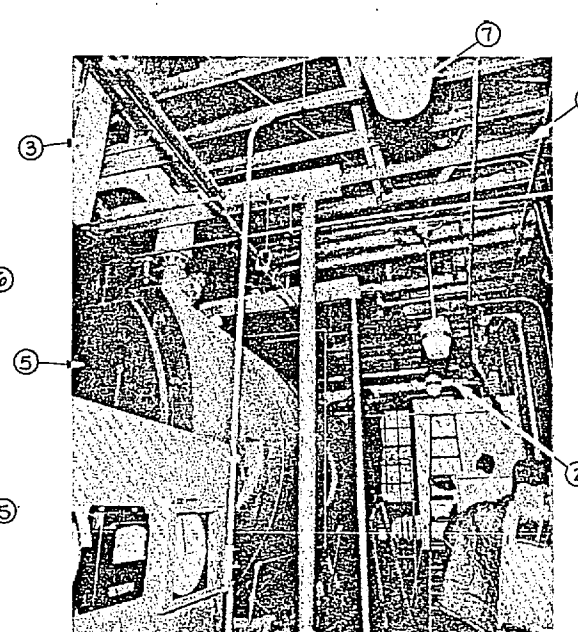


PHOTO-BOILER No. 10
(LOOKING NORTHWEST)
NO SCALE

KEYED NOTES: (THIS SHEET ONLY)

- 1 EXISTING BOILER NO. 9 WITH RELATED PIPING TO REMAIN. PROVIDE TEMPORARY DISCONNECTION OF ALL PIPING TO BOILER. REMOVE ASBESTOS PIPE INSULATION ON ALL PIPING AND PROVIDE NEW INSULATION. PROVIDE RECONNECTION OF ALL PIPING.
- 2 EXISTING PIPING TO REMAIN. PROVIDE TEMPORARY DISCONNECTION OF ALL PIPING TO BOILERS. PROVIDE TEMPORARY SUPPORT FOR ALL PIPING DURING DEMOLITION OF EXISTING ROOF STRUCTURE AND INSTALLATION NEW ROOF STRUCTURE AND ROOFING. PROVIDE NEW HANGERS TO NEW ROOF STRUCTURE. PROVIDE RECONNECTION OF ALL PIPING.
- 3 EXISTING BOILER STACK TO REMAIN. PROVIDE TEMPORARY DISCONNECTION OF EXISTING STACK FROM BOILERS. PROTECT STACK DURING DEMOLITION OF EXISTING ROOF STRUCTURE AND INSTALLATION. NEW ROOF STRUCTURE AND ROOFING. PROVIDE RECONNECTION OF EXISTING STACKS.
- 4 EXISTING EXPOSED ROOF STRUCTURE TO BE REMOVED, SEE DEMOLITION PLANS, SHEET D-8.
- 5 EXISTING BOILER NO. 10 WITH RELATED PIPING TO REMAIN. PROVIDE TEMPORARY DISCONNECTION OF ALL PIPING TO BOILER. PROVIDE RECONNECTION OF ALL PIPING.
- 6 EXISTING PIPE SUPPORT STRUCTURE TO REMAIN.
- 7 EXISTING LIGHTING FIXTURE, SEE ELECTRICAL DRAWINGS FOR WORK.
- 8 EXISTING BOILER CONTROL PANEL TO REMAIN; (NO WORK)
- 9 EXISTING WATER STORAGE TANK TO BE REMOVED, SEE PLUMBING DRAWINGS FOR DEMOLITION AND NEW WORK.
- 10 REMOVE EXISTING STEAM AND CONDENSATE PIPING. SEE SHEET M-9 FOR DETAILED WORK.
- 11 EXISTING CONDENSATE PUMP PIT. SEE SHEET M-9 FOR DETAILED WORK.
- 12 REMOVE EXISTING BOILER FEED WATER TANK, PUMPS, STAND, RELATED PIPING AND WIRING.
- 13 TERMINATION POINT OF STEAM PIPE DEMOLITION. EXISTING STEAM METER TO REMAIN.
- 14 REMOVE EXISTING WATER PIPING WITH INSULATION. SEE PLUMBING DRAWINGS FOR DETAILED WORK.
- 15 EXISTING BOILER STACK TERMINAL. PROTECT STACK DURING DEMOLITION OF EXISTING ROOF STRUCTURE AND NEW ROOF STRUCTURE AND ROOFING.
- 16 EXISTING BOILER STACK BASE FLASHING. PROTECT STACK DURING DEMOLITION OF EXISTING ROOF STRUCTURE AND NEW ROOF STRUCTURE AND ROOFING.
- 17 EXISTING RELIEF PIPING THRU ROOF TO REMAIN. PROTECT STACK DURING DEMOLITION OF EXISTING ROOF STRUCTURE AND NEW ROOF STRUCTURE AND ROOFING.
- 18 REMOVE EXISTING POWER VENTILATOR. SEE FLOOR PLAN, SHEET M-2, FOR DEMOLITION WORK AND FLOOR PLAN, SHEET M-6 FOR NEW WORK.
- 19 PROVIDE NEW STEEL STEAM PRESSURE REDUCING VALVE, 2350 LBS/HR, 100 PSIG INLET, 50 PSIG OUTLET PRESSURE.
- 20 PROVIDE NEW STEAM PRESSURE RELIEF, 3500 LBS/HR, SET AT 55 PSIG. SEE RELIEF VALVE DISCHARGE PIPING DETAIL 'G', SHEET M-11.
- 21 PROVIDE NEW STEEL STEAM PRESSURE REDUCING VALVE, 135 LBS/HR, 100 PSIG INLET, 15 PSIG OUTLET PRESSURE.
- 22 PROVIDE NEW STEAM PRESSURE RELIEF, 250 LBS/HR, SET AT 20 PSIG. SEE RELIEF VALVE DISCHARGE PIPING DETAIL 'G', SHEET M-11.
- 23 PROVIDE NEW STEEL STEAM PRESSURE REDUCING VALVE, 2125 LBS/HR, 100 PSIG INLET, 60 PSIG OUTLET PRESSURE.
- 24 PROVIDE NEW STEAM PRESSURE RELIEF, 3200 LBS/HR, SET AT 65 PSIG. SEE RELIEF VALVE DISCHARGE PIPING DETAIL 'G', SHEET M-11.
- 25 PROVIDE NEW STEEL 1/2" BUCKET TRAP, 100 LBS/HR, 95 PSIG DROP.
- 26 PROVIDE NEW PRESSURE GAUGE WITH SIPHON TUBE AND GAUGE COCK, 0-200 PSIG.
- 27 PROVIDE NEW PRESSURE GAUGE WITH SIPHON TUBE AND GAUGE COCK, 0-100 PSIG.
- 28 PROVIDE NEW PRESSURE GAUGE WITH SIPHON TUBE AND GAUGE COCK, 0-30 PSIG.
- 29 PROVIDE NEW STEEL 3/4" STEAM SUMMER SHUT-OFF VALVE.
- 30 PROVIDE NEW 1/2" END OF MAIN BUCKET TRAP, 150 LBS/HR, 95 PSIG PRESSURE DROP.
- 31 PROVIDE NEW 2" BUCKET TRAP, 5300 LBS/HR, 55 PSIG PRESSURE DROP.
- 32 WATER HEATER STEAM TEMPERATURE CONTROL VALVE BY WATER HEATER MANUFACTURER.
- 33 PROVIDE NEW STEEL STRAINER.
- 34 PROVIDE NEW STEEL GATE VALVE.

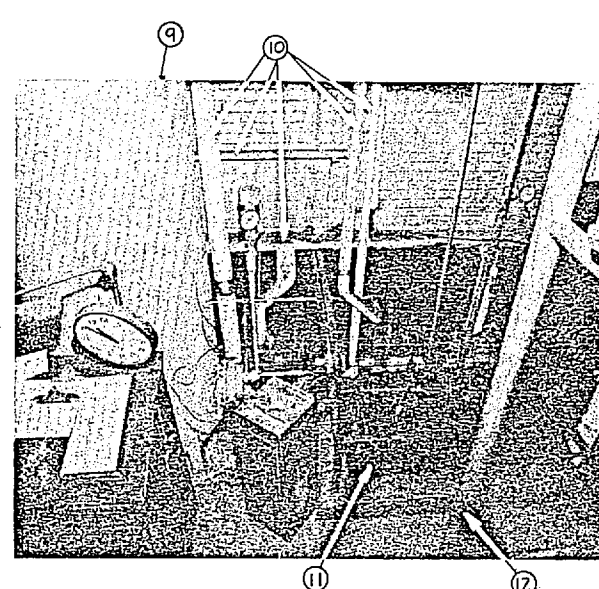


PHOTO-CONDENSATE PIT AREA
(LOOKING WEST-SOUTHWEST)
NO SCALE

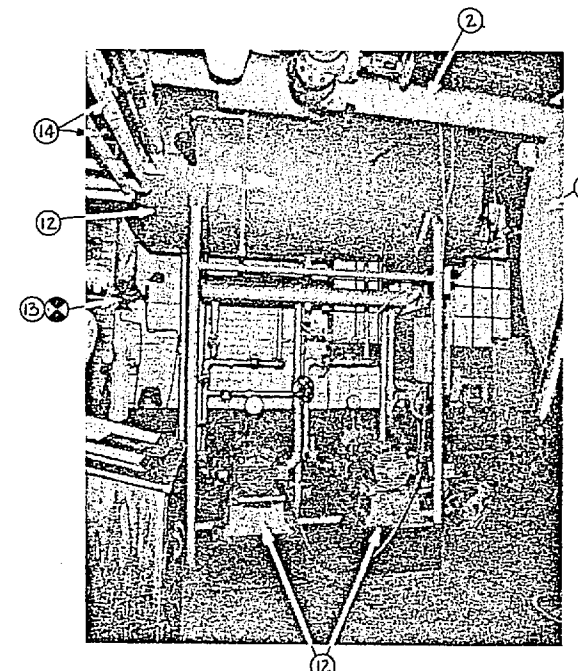


PHOTO-LEFT SIDE OF BOILER No. 9
(LOOKING NORTHWEST)
NO SCALE

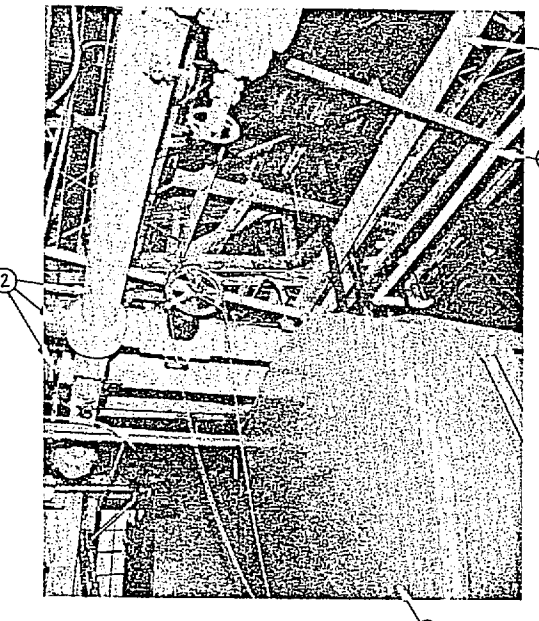


PHOTO-BACK OF BOILER No. 9
(LOOKING NORTHEAST)
NO SCALE

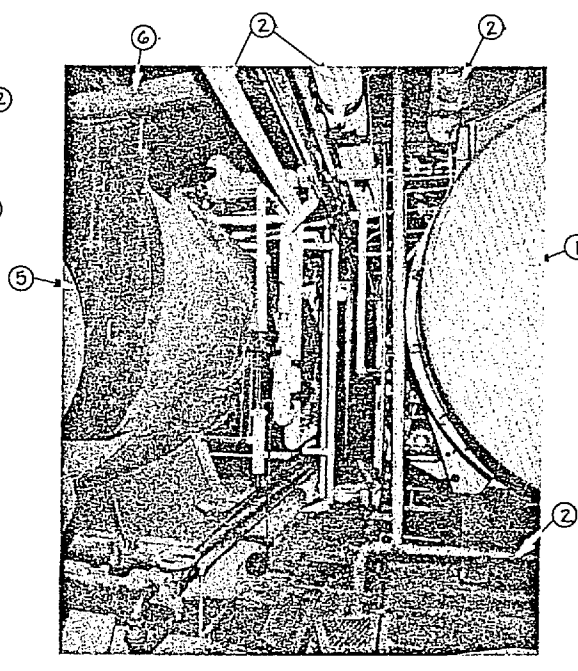


PHOTO-BACK OF BOILERS
(LOOKING SOUTHEAST)
NO SCALE

GENERAL NOTES:

- A. REMOVE ASBESTOS INSULATION FROM BOILER NO. 9 PIPING, STEAM HEADER, AND EXISTING FURTER CONDENSATE MAIN. PROVIDE NEW INSULATION.
- B. ALL BOILER ROOM PIPING AND EQUIPMENT TO REMAIN SHALL BE PROTECTED DURING DEMOLITION AND CONSTRUCTION OF NEW ROOF STRUCTURE. PIPING SHALL BE DISCONNECTED FROM BOILERS DURING DEMOLITION AND NEW CONSTRUCTION. PROVIDED TEMPORARY SUPPORTS FOR ALL PIPING. PROVIDE RECONNECTION OF ALL PIPING DISASSEMBLED FOR DEMOLITION. PROVIDE NEW HANGER ROD ASSEMBLIES FOR ALL PIPE HANGERS. SEE TYPICAL HANGER, DETAIL 'H', SHEET M-11.
- C. ALL PIPING SHALL BE TESTED UNDER NORMAL OPERATING CONDITIONS AFTER CONSTRUCTION TO PROVIDE FOR A TIGHT OPERATING PIPING SYSTEM.

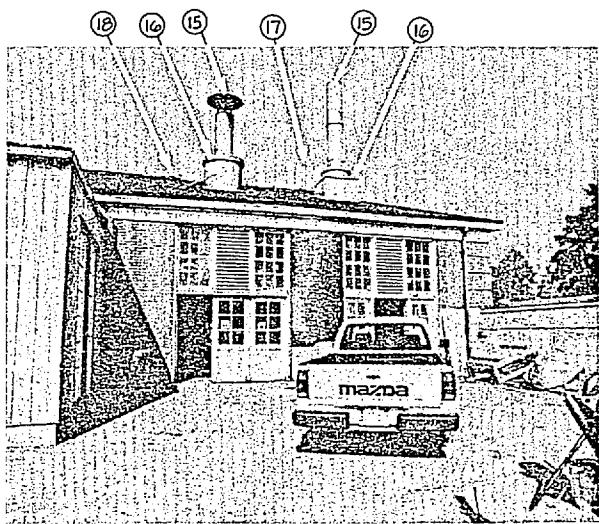
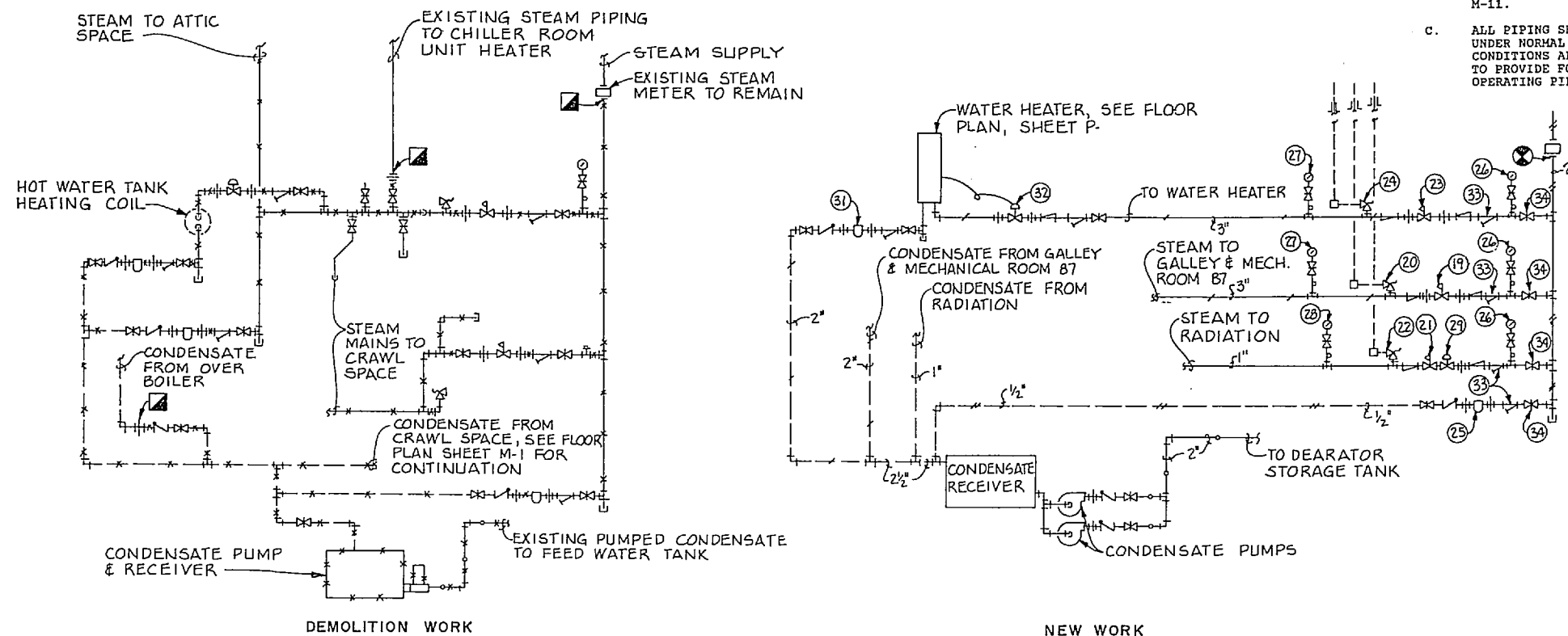


PHOTO-OUTSIDE BOILER ROOM
(LOOKING NORTHWEST)
NO SCALE

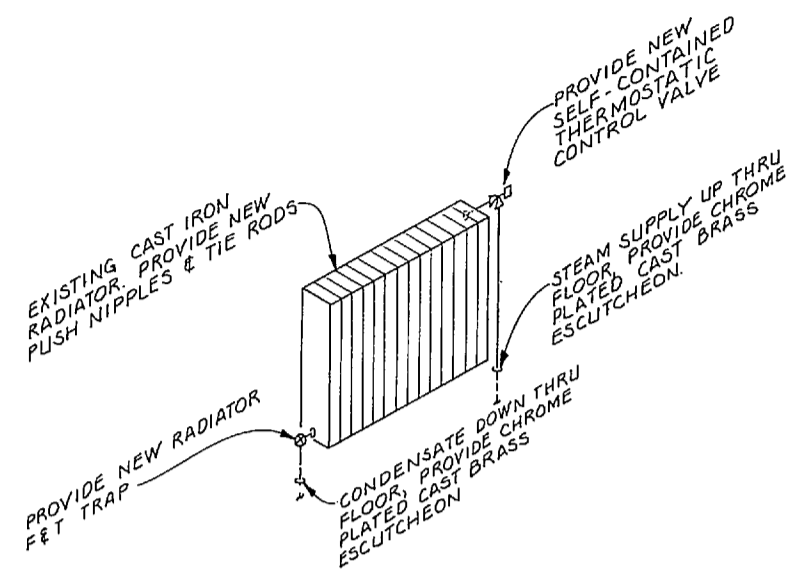


A
M-9(M-10) REDUCING STATION PIPING SCHEMATIC
NO SCALE

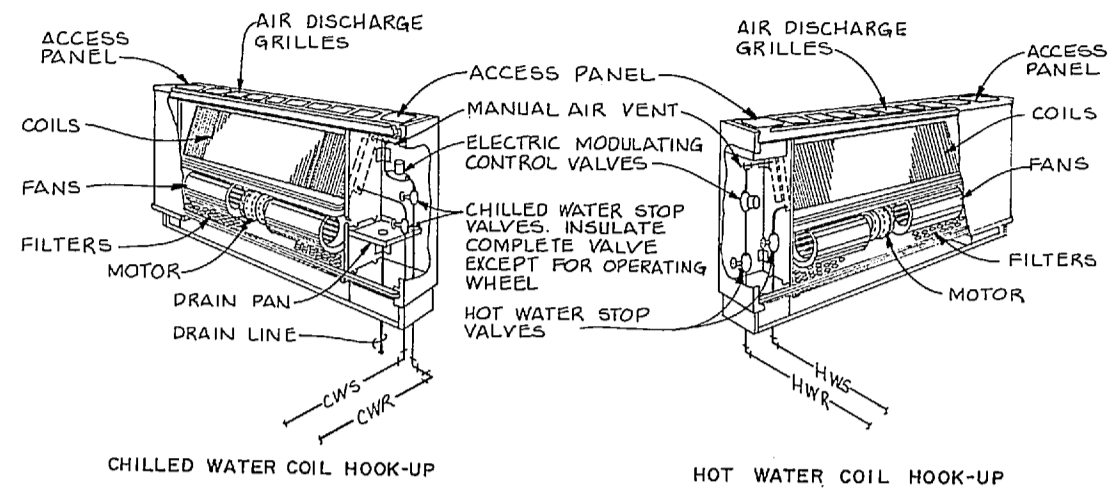
RECORD DRAWING		M-10	
THE SMITH-SINNETT ASSOCIATES, P.A. 110 WIND CHIME CT. RALEIGH, NC 27615		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA	
DES. JGW DR. LAB/JEM CHK. JHC SUBMITTED BY: RJL DESIGN DIR. JWC		RENOVATE BUILDING 2615	
APPROVED: PWO OR DICC DATE 7-30-87 SATISFACTORY TO: DATE		PHOTOS	
66.33		NAVFAC DRAWING NO. 4160642	
THE NORTH CAROLINA PROFESSIONAL ENGINEERS SEAL 4168 ENGINEER CHEATHAM		CONSTR. CONTR. NO. N62470-86-B-9517 SCALE: GRAPHIC SPEC. 05-86-9517 SHEET 62 OF 74	



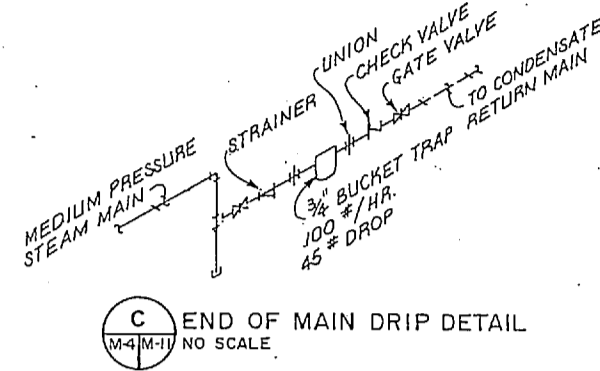
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SYMBOL	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	5/30/82	



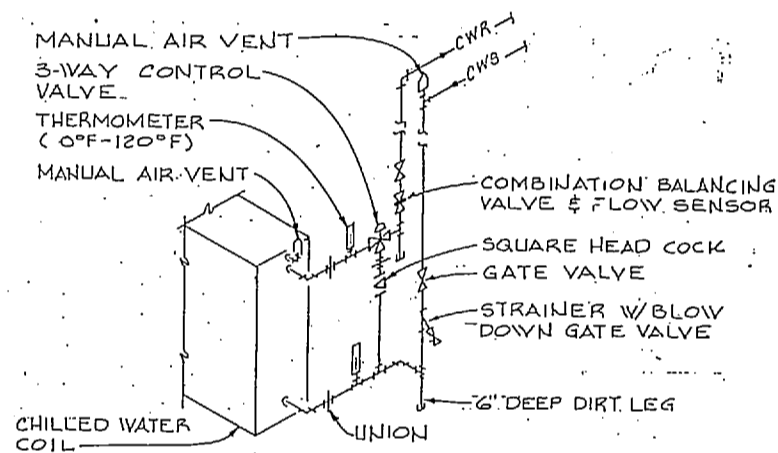
A TYPICAL RADIATOR DETAIL
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 M-3/M-11



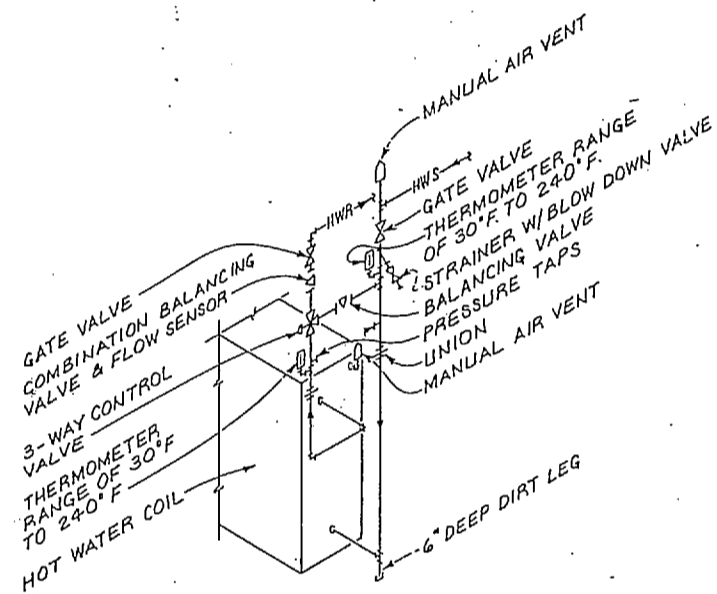
B FAN COIL UNIT DETAILS
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 M-3/M-11



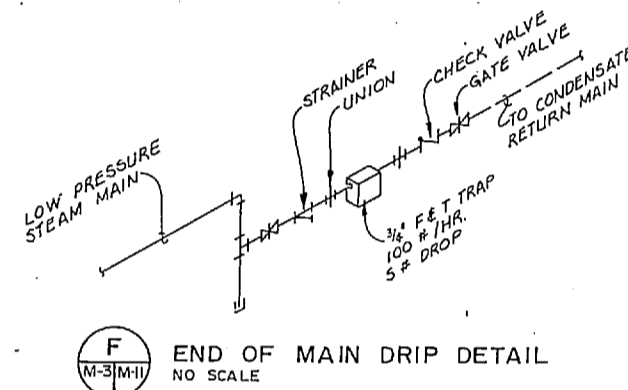
C END OF MAIN DRIP DETAIL
 NO SCALE
 M-4/M-11



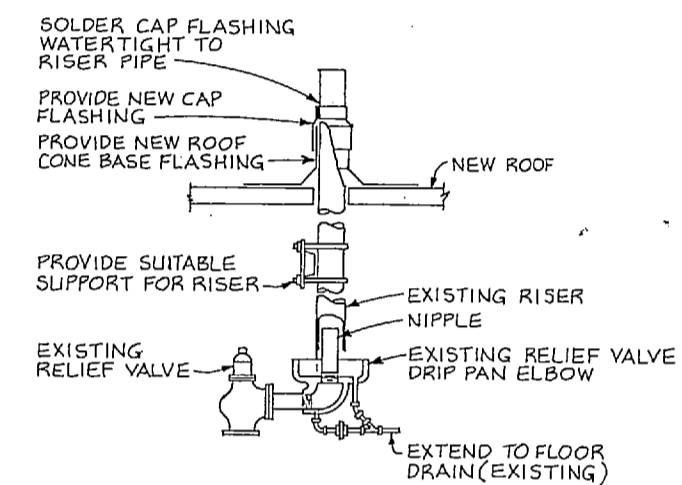
D CHILLED WATER COIL PIPING DETAIL
 NO SCALE
 M-4



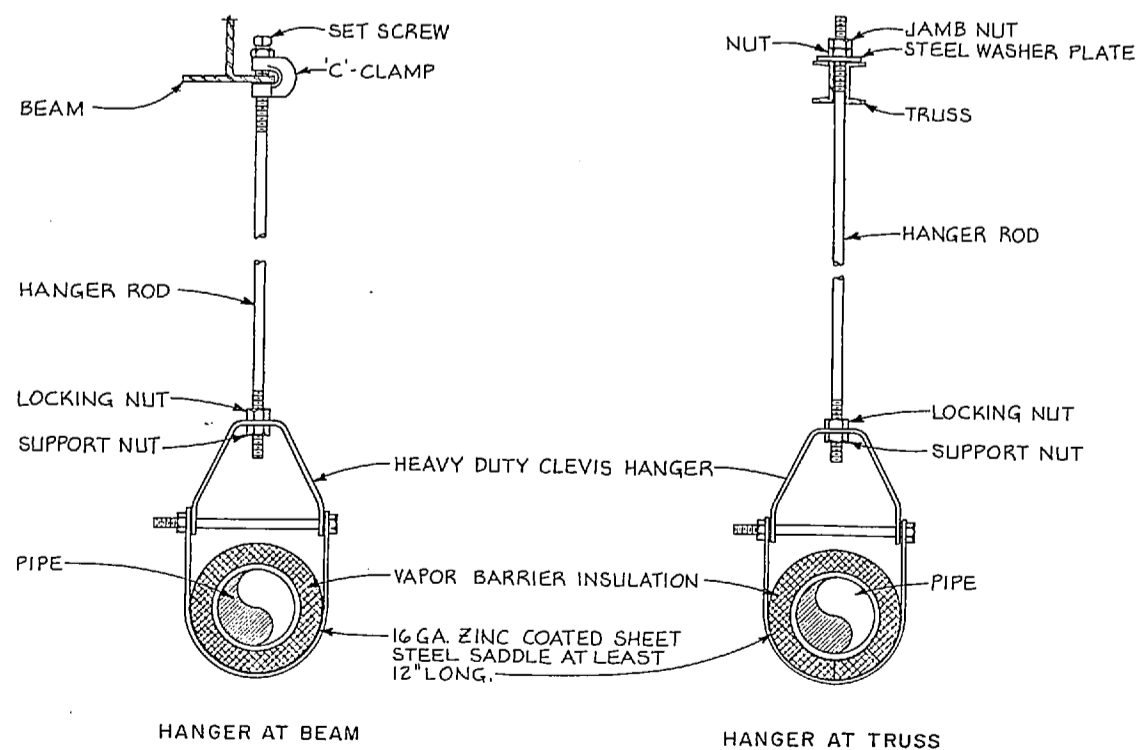
E HOT WATER COIL PIPING DETAIL
 NO SCALE
 M-4



F END OF MAIN DRIP DETAIL
 NO SCALE
 M-3/M-11



G RELIEF VALVE DISCHARGE PIPING DETAIL
 NO SCALE
 M-3/M-11



H HANGER DETAILS
 NO SCALE
 M-10

RECORD DRAWING		M-11	
CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA 86.33	THE SMITH-SINNETT ASSOCIATES, P.A. 110 WIND CHIME CT. RALEIGH, NC 27615	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND CAMP LEJEUNE, NORTH CAROLINA	MARINE CORPS BASE
DES. JGW DR. JEM, LAB CHK. JHC SUBMITTED BY: RJL	86.33	RENOVATE BUILDING 2615	
DESIGN DIR. [Signature]	APPROVED: PWO OR OIC [Signature]	MECHANICAL DETAILS	
DATE 7-20-82	DATE	SIZE F	CODE IDENT. NO. 80091
SATISFACTORY TO:	DATE	NAVAFAC DRAWING NO. 4160643	CONSTR. CONTR. NO. N62470-86-B-9517
		SCALE: NOTED	SPEC. 05-86-9517 SHEET 63 OF 74



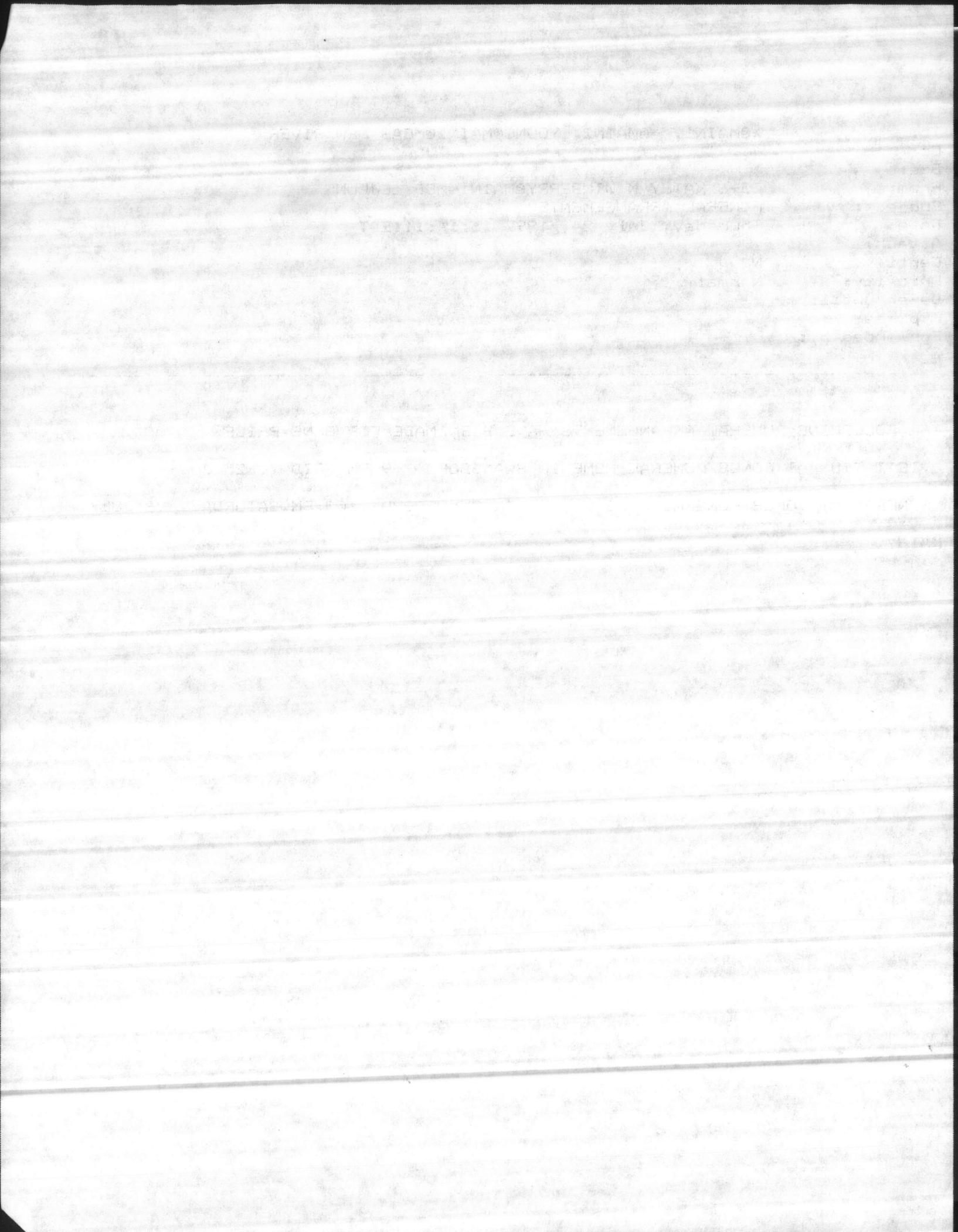
To: *@MAIN1, *@MAIN2, YOUNG@MAIN1@MCAS NEW RIVER
Cc:
Bcc:
From: GS-6 KATHY M WINBERRY@MAIN1@MCB LEJEUNE
Subject: FUNERAL ARRANGEMENTS
Date: Thursday, July 24, 1997 16:14:11 EDT
Attach:
Certify: N
Priority: Normal
Defer until:
Expires:
Forwarded by:

THE FOLLOWING FUNERAL ARRANGEMENTS HAVE BEEN MADE FOR GENE PRICE:

VISITATION AT JONES FUNERAL HOME IN SWANSBORO 7-9 PM FRIDAY, 25 JULY

FUNERAL AT JONES FUNERAL HOME CHAPEL IN SWANSBORO 2:00 PM SATURDAY, 26 JULY

KATHY.



FAN COIL UNIT SCHEDULE

SYMBOL	CFM			COOLING COIL *		HEATING COIL **		RUNOUT SIZE		ELECTRICAL			REMARKS
	TOTAL	O.A.	GPM	SENSIBLE CAPACITY	TOTAL CAPACITY	GPM	TOTAL CAPACITY	COOLING	HEATING	HP	VOLTAGE	PHASE	
F.C.#1	300	40	1.8	6,500	8,800	1.2	12,000	1/2"	1/2"	1/30	120	1	
F.C.#2	200	40	1.3	5,000	6,400	.8	8,000	1/2"	1/2"	1/60	120	1	
F.C.#3	800	80	4.8	17,600	23,600	3.2	32,000	1"	3/4"	1/12	120	1	
F.C.#4	200	—	1.3	5,000	6,400	.8	8,000	1/2"	1/2"	1/60	120	1	
F.C.#5	600	80	3.3	11,800	16,000	2.4	24,000	3/4"	3/4"	1/20	120	1	

* FAN COIL BASED ON 78°F. E.A.T. D.B., 65°F. W.B., 10°F. WATER TEMP. RISE & 45°F. E.W.T.
 ** HEATING COIL BASED ON 65°F. E.A.T. & 180°F. E.W.T., MAXIMUM OF 10' FOR COIL & CONTROL VALVE.

MAKE-UP AIR UNIT SCHEDULE

SYMBOL	CFM	E.S.P. H ₂ O	ELECTRICAL		REMARKS
			HP	VOLTAGE PHASE	
M.A.#1	1440	.25	1/3	120 1	INTERLOCK WITH EXISTING RANGE HOOD FAN

REVISIONS

SYM.	DESCRIPTION	DATE	APPROVED
1	AS BUILT DRAWINGS	5/30/81	

AIR HANDLING UNIT SCHEDULE

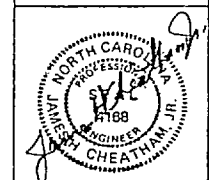
SYMBOL	AIR QUANTITY		EXT. S.P. H ₂ O	ELECTRICAL			COOLING COIL ***						HEATING COIL **			REMARKS	
	TOTAL CFM	OUTSIDE AIR CFM		H.P.	VOLTAGE	PHASE	EDB °F	EWB °F	LDB °F	LWB °F	GTH-MBH	GPM	RUNOUT SIZE	EAT °F	GTH-MBH		GPM
A.H.U.#1	800	100	.35	1/2	120	1	78.2	66.8	58.1	57.1	24.5	5	1"	62	30	3	3/4"
A.H.U.#2	1600	740	.35	1	208	3	83.6	71.5	53.0	52.9	95.7	19.1	1 1/2"	47.2	109	11	1 1/4"

* EXT. S.P. INCLUDES SUPPLY & RETURN AIR DUCTWORK & GRILLES. FILTERS IN UNIT ARE NOT INCLUDED IN THIS FIGURE.
 ** BASED ON 180°F. E.W.T. & 20°F. DROP. MAXIMUM WATER PRESSURE DROP OF 10' FOR COIL & CONTROL VALVE.
 *** BASED ON 45°F. E.W.T. & 10°F. TEMPERATURE RISE. MAXIMUM WATER PRESSURE DROP OF 15' FOR COIL & CONTROL VALVE.
 **** BASED ON MAXIMUM COIL VELOCITY OF 600 F.P.M. & A MAXIMUM AIR SIDE PRESSURE DROP OF 2.0' WATER COLUMN. COIL SHALL HAVE A MINIMUM OF 6 ROWS & MAXIMUM OF 132 FINS PER INCH.

POWER VENTILATOR SCHEDULE

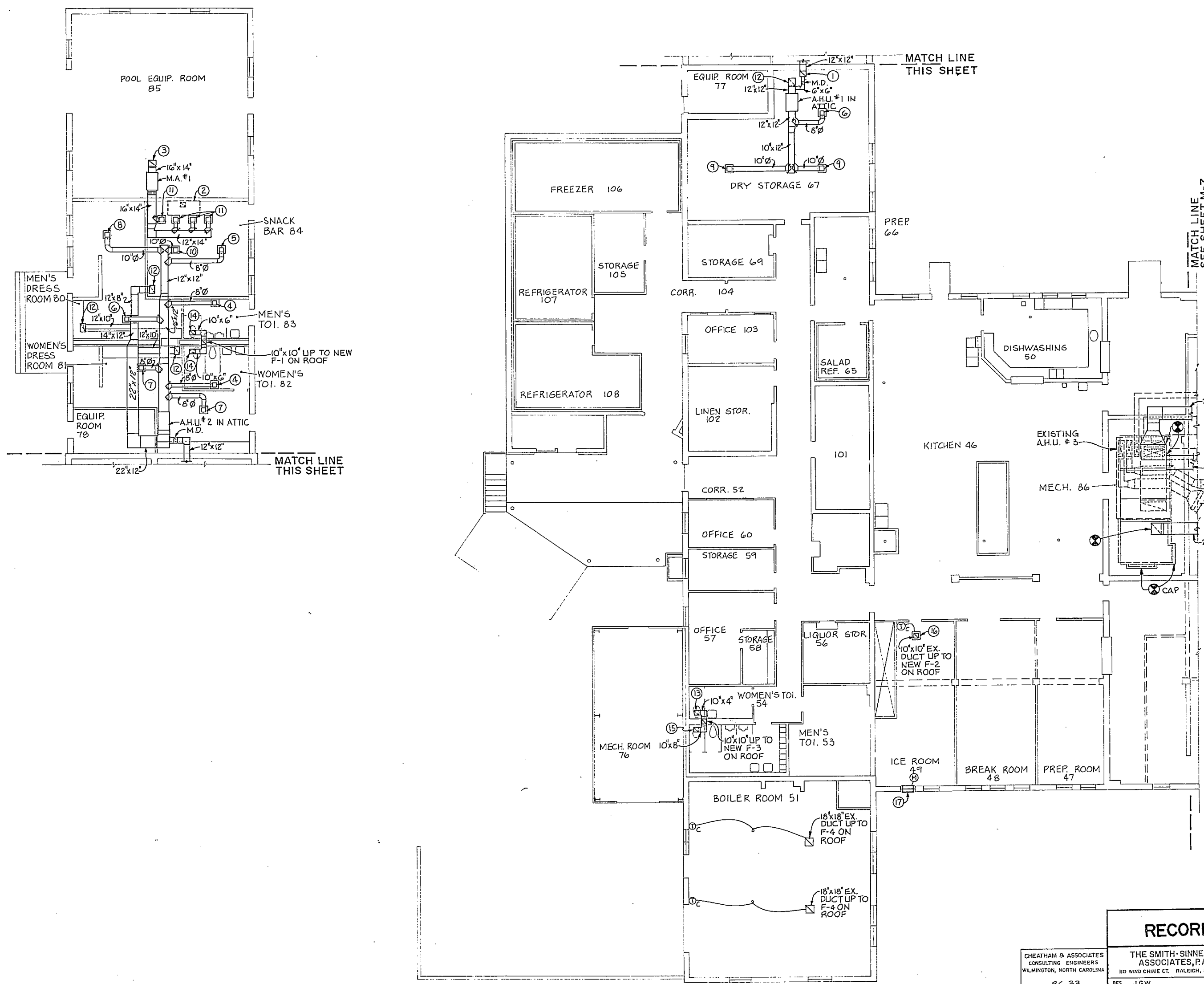
SYMBOL	CFM	E.S.P. H ₂ O	RPM	TIP SPEED	ELECTRICAL			TYPE	DRIVE	REMARKS
					H.P.	VOLTAGE	PHASE			
F-1	380	.125	1300	3701	1/30	120	1	ROOF MOUNTED CENTRIFUGAL	DIRECT	
F-2	1150	.20	1490	4340	1/4	120	1		BELT	W/COOLING THERMOSTAT
F-3	470	.125	1300	3701	1/25	120	1		DIRECT	
F-4	2500	.125	700	3390	1/4	120	1		BELT	W/COOLING THERMOSTAT
F-5	2500	.125	700	3390	1/4	120	1		BELT	W/COOLING THERMOSTAT
F-6	690	.125	840	2446	1/4	120	1		BELT	

RECORD DRAWING M-12

CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA 86-33	THE SMITH-SINNETT ASSOCIATES, P.A. 110 WIND CHIME CT. RALEIGH, NC 27615	DEPARTMENT OF THE NAVY. NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP LEJEUNE, NORTH CAROLINA
	DES. JGW DR. JEM, LAB CHK. JHC SUBMITTED BY: R.JL DESIGN DIR. J.E.C.	RENOVATE BUILDING 2615 SCHEDULES
	APPROVED: P.W.G. OR O.I.C.C. DATE: 7-20-81	SIZE: F CODE IDENT. NO.: 80091 NAVFAC DRAWING NO.: 4160644 CONSTR. CONTR. NO. N62470-86-B-9517
SATISFACTORY TO:		SCALE: NOTED SPEC. 05-86-9517 SHEET 64 OF 74

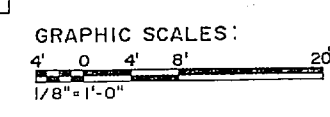
James
L. Taylor

REVISIONS		
SYM.	DESCRIPTION	DATE APPROVED
1	AS BUILT DRAWINGS	5/20/81



- KEYED NOTES: (THIS SHEET ONLY)**
- ① 14" X 12" FRESH AIR DUCT DOWN FROM NEW FRESH AIR INTAKE GOOSENECK ON ROOF, SEE DETAIL C, SHEET M-11.
 - ② EXISTING RANGE HOOD WITH EXHAUST FAN ON ROOF. INTERLOCK EXISTING EXHAUST FAN WITH NEW H.A. # 1.
 - ③ 16 X 14" FRESH AIR DUCT DOWN FROM NEW FRESH AIR INTAKE GOOSENECK ON ROOF, SEE DETAIL C, SHEET M-11.
 - ④ NEW 8" X 8" CEILING SUPPLY AIR DIFFUSER, 150 CFM.
 - ⑤ NEW 8" X 8" CEILING SUPPLY AIR DIFFUSER, 175 CFM.
 - ⑥ NEW 8" X 8" CEILING SUPPLY AIR DIFFUSER, 200 CFM.
 - ⑦ NEW 8" X 8" CEILING SUPPLY AIR DIFFUSER, 250 CFM.
 - ⑧ NEW 10" X 10" CEILING SUPPLY AIR DIFFUSER, 275 CFM.
 - ⑨ NEW 10" X 10" CEILING SUPPLY AIR DIFFUSER, 300 CFM.
 - ⑩ NEW 10" X 10" CEILING SUPPLY AIR DIFFUSER, 350 CFM.
 - ⑪ NEW 10" X 10" CEILING SUPPLY AIR DIFFUSER, 360 CFM.
 - ⑫ NEW 18" X 12" CEILING RETURN AIR GRILLE.
 - ⑬ NEW 10" X 6" CEILING EXHAUST REGISTER, 145 CFM.
 - ⑭ NEW 10" X 8" CEILING EXHAUST REGISTER, 190 CFM.
 - ⑮ NEW 10" X 10" CEILING EXHAUST REGISTER, 325 CFM.
 - ⑯ NEW 18" X 18" CEILING EXHAUST REGISTER, 1150 CFM.
 - ⑰ PROVIDE NEW 24" X 14" FIXED BLADE FRESH AIR INTAKE AIR LOUVER WITH MOTORIZED DAMPER. INTERLOCK DAMPER MOTOR WITH POWER VENTILATOR F-2. MOUNT BOTTOM OF LOUVER 12" A.P.F.

DUCTWORK FLOOR PLAN-AREA A
SCALE: 1/8" = 1'-0"



RECORD DRAWING		M-6
CHEATHAM & ASSOCIATES CONSULTING ENGINEERS WILMINGTON, NORTH CAROLINA 86.33		THE SMITH-SINNETT ASSOCIATES, P.A. 110 WIND CHIME CT. RALEIGH, NC 27615
DES. J.G.W. DR. LAB./J.E.M. CHK. J.H.C. SUBMITTED BY: R.J.L. DESIGN DIR. J.H.C. APPROVED: F.W.O. OR B.C.C. DATE 7-20-81		DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND MARINE CORPS BASE CAMP MELENE, NORTH CAROLINA RENOVATE BUILDING 2615 DUCTWORK FLOOR PLAN-AREA A NEW WORK
APPROVED: F.W.O. OR B.C.C. DATE 7-20-81 SATISFACTORY TO: DATE		NAVFAC DRAWING NO. 4160638 CONSTR. CONTR. NO. N62470-86-B-9517 SCALE: NOTED SPEC. 05-86-9517 SHEET 58 OF 74



