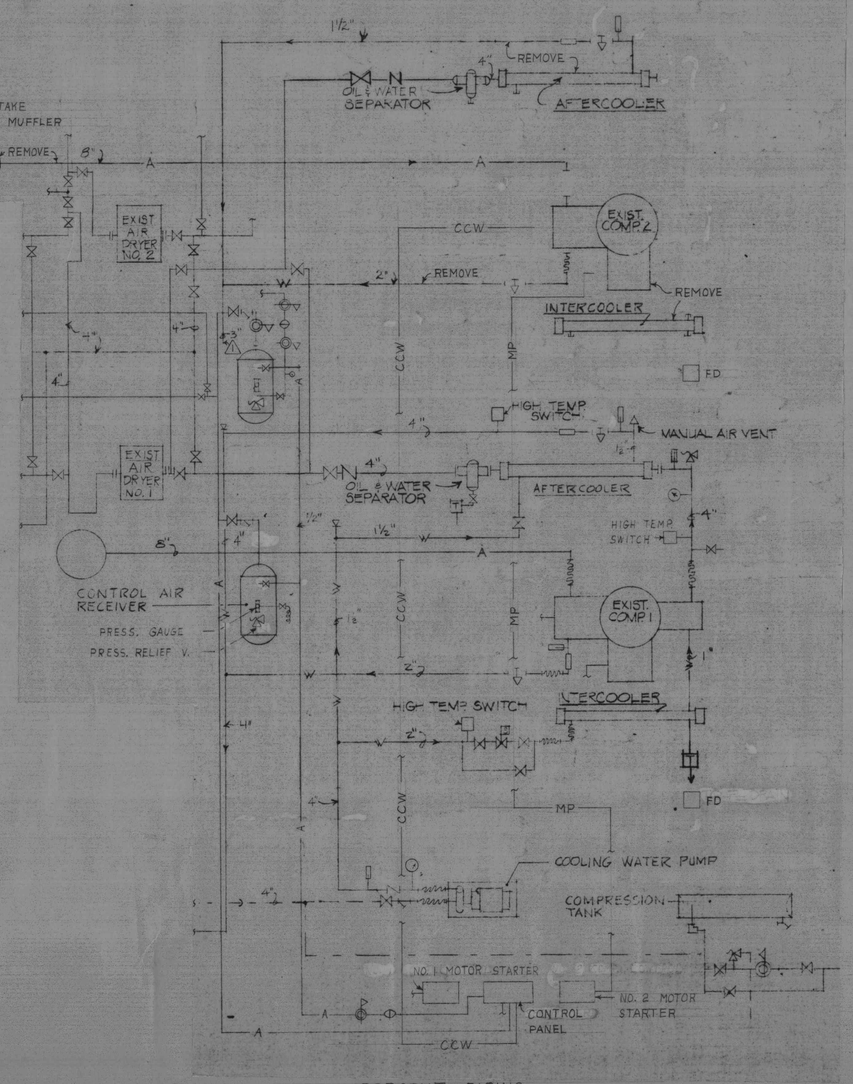
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
—W—	WATER	FD	FLOOR DRAIN
--CD--	CONDENSATE DRAIN		OIL FILTER
—A—	COMPRESSED AIR		PLUG
	GATE VALVE		CAP
	GLOBE VALVE		SIGHT GLASS
	SOLENOID VALVE		MANUAL AIR VENT
	CHECK VALVE		PRESSURE GAUGE
	PLUG VALVE		THERMOMETER IN WELL
	STRAINER		FLEXIBLE CONNECTION
	PRESSURE RELIEF VALVE		GAUGE AND PRESSURE RELIEF VALVE
	PRESSURE REDUCING VALVE		FLEXIBLE AIR HOSE
	DRIP TRAP	—CCW—	COMPRESSOR CONTROL WIRING
	PILOT OPERATED PRESSURE REDUCING VALVE	—MP—	MOTOR POWER CABLE
	FLANGED CONNECTION	POD	PNEUMATIC OPERATED DAMPER

SCOPE OF WORK

1. REMOVE EXISTING COMPRESSOR #2, INERTIA BASE, AIR-INTAKE FILTER-MUFFLER, INTERCOOLER, AFTERCOOLER, MOTOR AND COOLING WATER PIPING SERVING COMPRESSOR #2.
2. FURNISH AND INSTALL PACKAGED, SKID-MOUNTED, AIR-COOLED, TWO-STAGE RECIPROCATING COMPRESSOR WITH INTERCOOLER, AFTERCOOLER, MOTOR, AIR-INTAKE FILTER-MUFFLER, V-BELT DRIVE, VIBRATION ISOLATION SPRINGS AND CONTROL. COMPRESSOR SHALL HAVE A CAPACITY OF AT LEAST 300 ACFM AND SHALL BE DRIVEN BY A 125 HP, 460 V, 3-PHASE, 60 HERTZ MOTOR. INSTALLATION SHALL INCLUDE CONNECTION OF ALL PIPING, CONTROLS, WIRING, AND ACCESSORIES FROM UNIT TO EXISTING POINTS OF CONNECTION.
3. CONTRACTOR SHALL FURNISH AND REPLACE HEATERS AND OTHER ITEMS REQUIRED TO MAKE EXISTING MOTOR STARTER COMPATIBLE WITH NEW MOTOR.
4. PATCH HOLE IN BUILDING WALL RESULTING FROM AIR INTAKE PIPE REMOVAL.

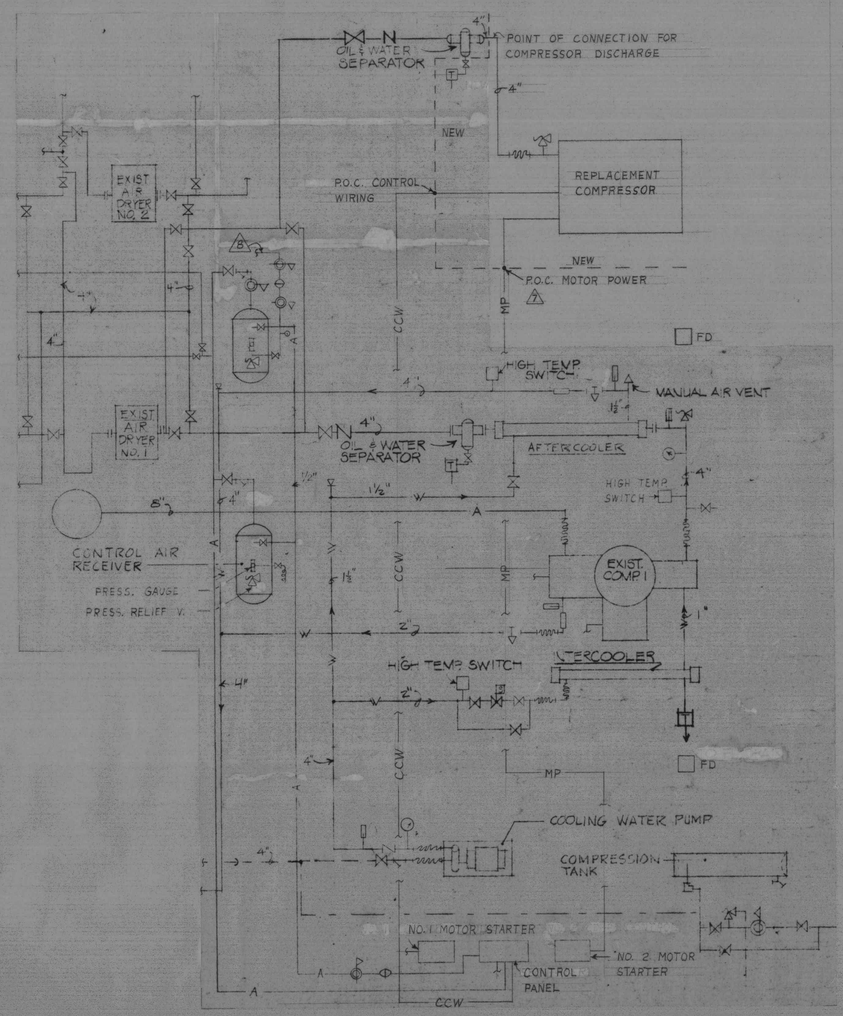
NOTES

1. 8' LONG SECTION OF PIPE HAS BEEN REMOVED.
2. INSTALL SUPPLY AIR DUCTWORK USING EXISTING GRAVITY VENT AS POINT OF CONNECTION. FABRICATE ALL DUCT USING 20 GAUGE GALVANIZED SHEET METAL. ALL DUCTWORK CONSTRUCTION AND DUCT REINFORCEMENT SHALL CONFORM TO SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARD. TERMINATE SUPPLY DUCT 4 FT ABOVE INTERCOOLER.
3. INSTALL EXHAUST AIR DUCTWORK USING EXISTING WALL LOUVER AS POINT OF CONNECTION. CONNECT DUCTWORK TO AFTERCOOLER DISCHARGE USING FLEXIBLE CONNECTION.
4. INSTALL PARALLEL BLADE DAMPER IN SUPPLY DUCT WHERE SHOWN. DAMPER FRAME AND BLADES SHALL BE OF GALVANIZED STEEL. DAMPER BLADES AND SIDES SHALL HAVE SEALS. BEARINGS SHALL BE OIL IMPREGNATED. INCLUDE DAMPER ACTUATOR, ACTUATOR MOUNTING BRACKETS AND LINKAGE. SIZE TO FIT 30/30 DUCT. ACTUATOR SHALL FAIL WITH DAMPER IN OPEN POSITION. CONTROL THE DAMPER TO OPEN WHEN COMPRESSOR IS OPERATING. FURNISH AND INSTALL PNEUMATIC TUBING FROM CONTROL AIR TO DAMPER.
5. ALL PROTECTION POINTS, ON THE EXISTING CONTROL PANEL, WHICH ARE COMPATIBLE WITH THE NEW COMPRESSOR SHALL BE UTILIZED. IF NEW COMPRESSOR IS SPLASH LUBRICATED, A LOW OIL LEVEL PROTECTION POINT SHALL ALSO BE PROVIDED.
6. POINT NOT APPLICABLE TO AIR-COOLED COMPRESSOR.
7. EXISTING WIRING: 3 #250 MCM CONDUCTORS IN 2 1/2" CONDUIT. CONNECT NEW MOTOR TO EXISTING WIRING USING #250 MCM CONDUCTORS.
8. AIR SOURCE FOR DAMPER ACTUATOR.
9. INSTALL NEW COMPRESSOR IN SAME LOCATION AND ORIENTATION AS COMPRESSOR BEING REPLACED.



PRESENT PIPING

NO SCALE



PIPING AFTER COMPRESSOR #2 REPLACEMENT

NO SCALE

M-1

SYMBOL	DESCRIPTION	DATE	APPRD.
	AS-BUILT	10/9/89	

REVISIONS

DEPARTMENT OF THE NAVY CONTRACT NO. NAVAL FACILITIES ENGINEERING COMMAND
NAVAL AIR STATION N62474-88-C-8148 WHIDBEY ISLAND, WASHINGTON

DES.
DRWN. NP
TR.
ARCH.
MECH. ELEC.
STRUCT.
CIVIL
CHK.
SUPV.
IN CHARGE NP
SATISFACTORY TO:
DATE

AIR COMPRESSOR #2
REPLACEMENT - PIPING
BLDG 2528

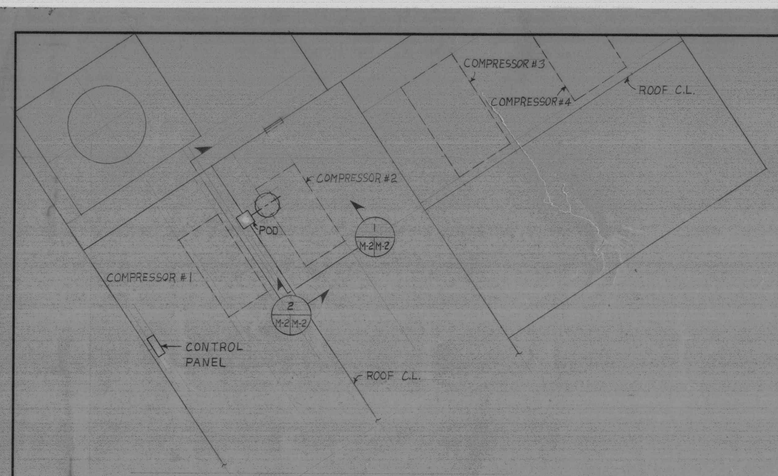
APPROVED PUBLIC WORKS OFFICER DATE 11/9/89

SCALE: N.T.S. DATE DRWN: 22 JUL 88
SHEET 2 OF 3
P.W. DWG NO 88-19
NAVFAC DWG NO. 4215,565

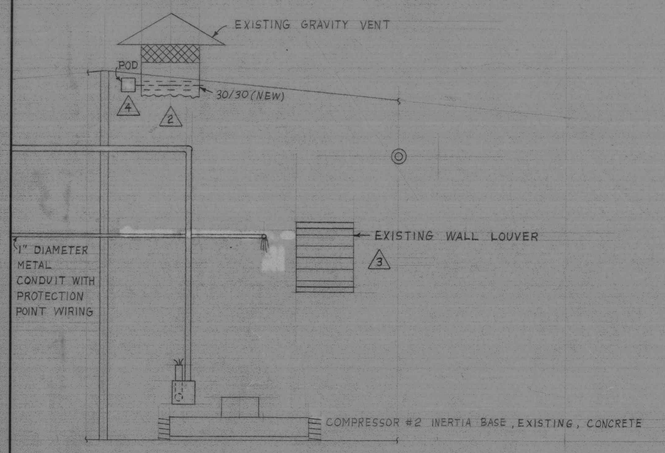
Air Compressor #2 Replacement PW 88-18 2 of 3

88-19

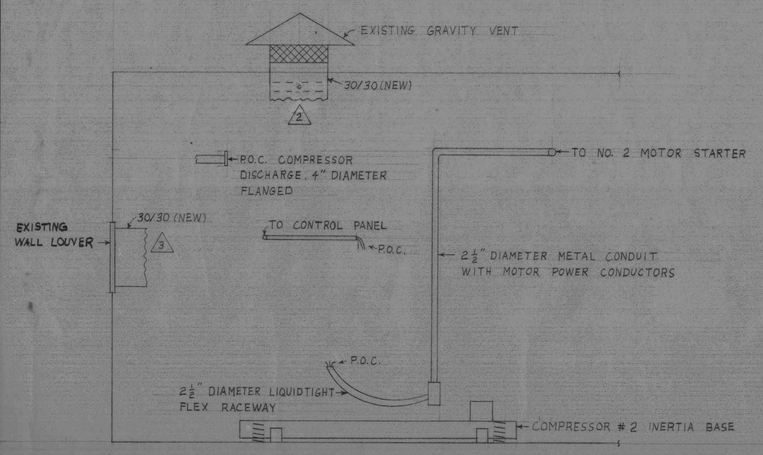
FILE: 2528



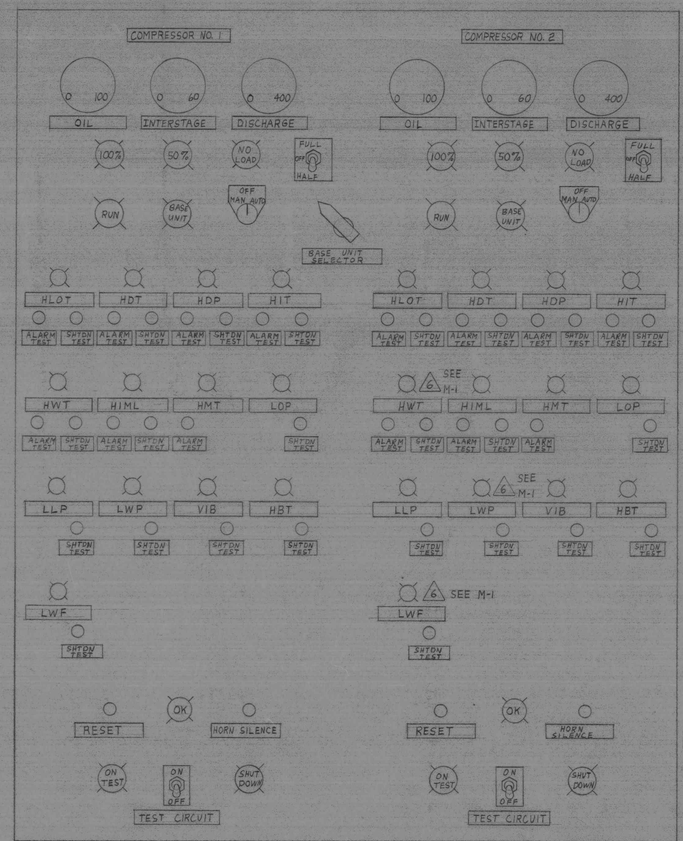
COMPRESSOR LOCATION PLAN
1/8" = 1'-0"



SECTION 1 M-2 M-2 AIR INTAKE AND EXHAUST POINTS
3/8" = 1'-0"

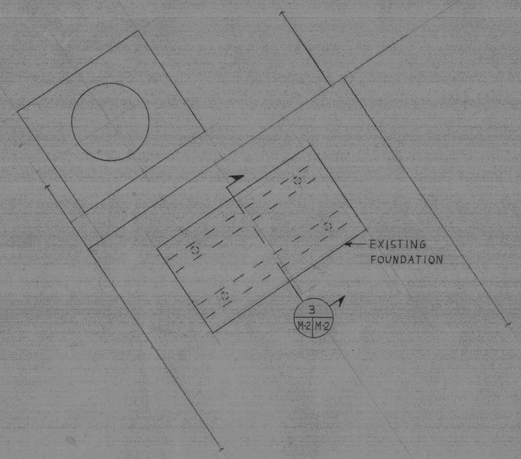


SECTION 2 M-2 M-2 AIR INTAKE AND EXHAUST POINTS & P.O.C.s
3/8" = 1'-0"

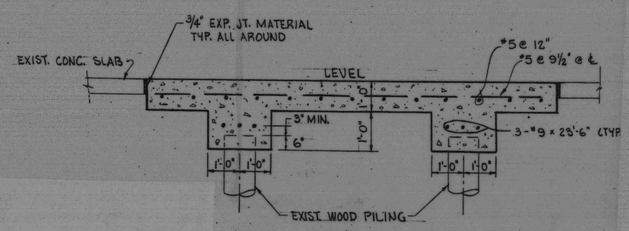


EXISTING CONTROL PANEL 5
NO SCALE

HLOT - HIGH LUBE OIL TEMPERATURE
HDT - HIGH DISCHARGE TEMPERATURE
HDP - HIGH DISCHARGE PRESSURE
HIT - HIGH INTERCOOLER TEMPERATURE
HIML - HIGH INTERCOOLER MOISTURE LEVEL
HMT - HIGH MOTOR TEMPERATURE
LOP - LOW OIL PRESSURE
LLP - LOW LUBE PRESSURE
VIB - VIBRATION
HBT - HIGH MAIN BEARING TEMPERATURE



FOUNDATION LOCATION PLAN
1/8" = 1'-0"



SECTION 3 M-2 M-2 COMPRESSOR FOUNDATION
1/2" = 1'-0"

Air Compressor #2 Replacement
PW 88-18
3 of 3

6215566

M-2

SYMBOL	DESCRIPTION	DATE	APPRO
	AS-BUILT	10/3/89	

REVISIONS

DEPARTMENT OF THE NAVY CONTRACT NO. N62474-88-C-8148

NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

DES
DRWN NP
CIVIL
ARCH
STRUCT
MECH
ELEC
CHK
ENG NP
DIRECTOR
SATISFACTORY TO

AIR COMPRESSOR # 2
REPLACEMENT - DETAILS
BLDG. 2528

APPROVED PUBLIC WORKS OFFICER DATE 11/29/88

SIGNATURE TITLE DATE

SCALE SHOWN DATE DRAWN 3 AUG '88
SHEET 3 OF 3
FILE 2528 P.W. DWG. NO. 88-20
NAVFAC Dwg. No. 6.215.566

13ND NASW 11012/1 (REV. 8-78)

FILE: 2528

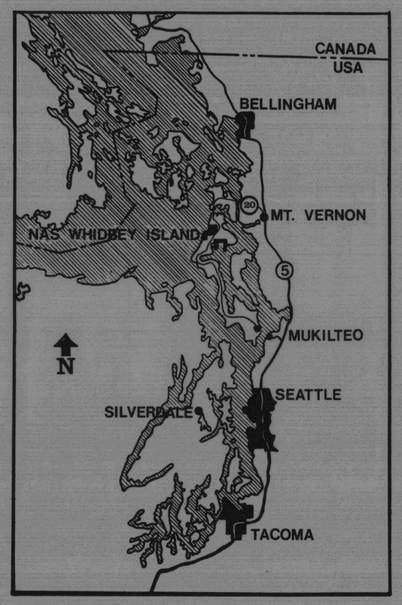
NAVAL AIR STATION WHIDBEY ISLAND

AIR COMPRESSOR REPLACEMENT

BUILDING 2528

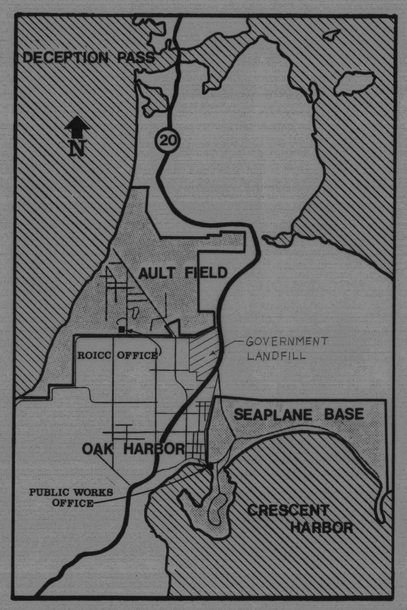
INDEX TO DRAWINGS

DRAWING REF. NO.	DRAWING TITLE	DRAWING NUMBER NAVFAC	DRAWING NUMBER PW
T-1	TITLE, MAPS	6,215,564	88-18
M-1	MECHANICAL, PIPING	6,215,565	88-19
M-2	MECHANICAL, DETAILS	6,215,566	88-20



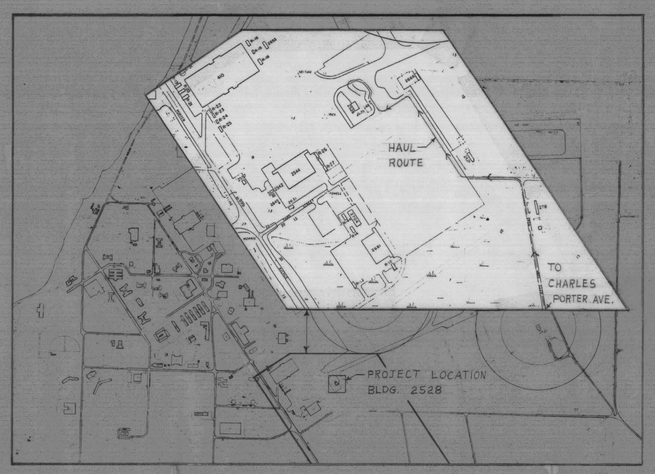
VICINITY MAP 1 INCH = 15 MILES

0 10 20

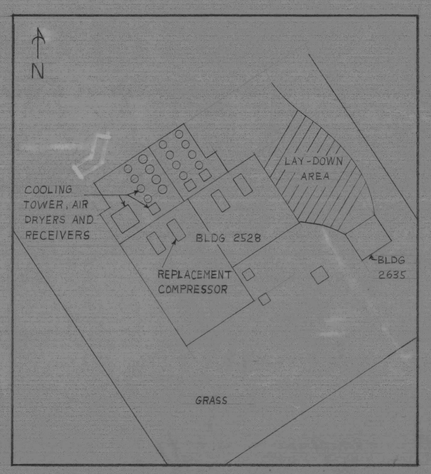


LOCATION MAP 1 INCH = 1 MILE

0 1 2



LOCATION MAP - AULT FIELD NOT TO SCALE



LOCATION PLAN 1 INCH = 30 FEET

SITE MAP

T-1

IF SHEET IS LESS THAN 28" X 40" IT IS A REDUCED PRINT — SCALE REDUCED ACCORDINGLY

SYMBOL	DESCRIPTION	DATE	APPRD
	AS-BUILT	10/3/89	

REVISIONS

DEPARTMENT OF THE NAVY CONTRACT NO. N62474-88-C-8148

NAVAL AIR STATION, WHIDBEY ISLAND, WASHINGTON

DES
DRWN NP
CIVIL
ARCH
STRUCT
MECH
ELEC
CHK
EIC NP
DIRECTOR

AIR COMPRESSOR #2
REPLACEMENT - TITLE, MAPS
BLDG. 2528

APPROVED [signature] DATE 11/09/88
PUBLIC WORKS OFFICER

SATISFACTORY TO: [signature] 28 Sep 88
SIGNATURE TITLE DATE

SCALE SHOWN DATE DRWN 27 JUL 88
SHEET 1 OF 3
FILE 2528 P.W. DWG. NO. 88-18
NAVFAC DWG. NO. 6,215,564

13ND NASW 11012/1 (REV. 9-79) GPO 1986-694-156

FILE: 2528

6215564