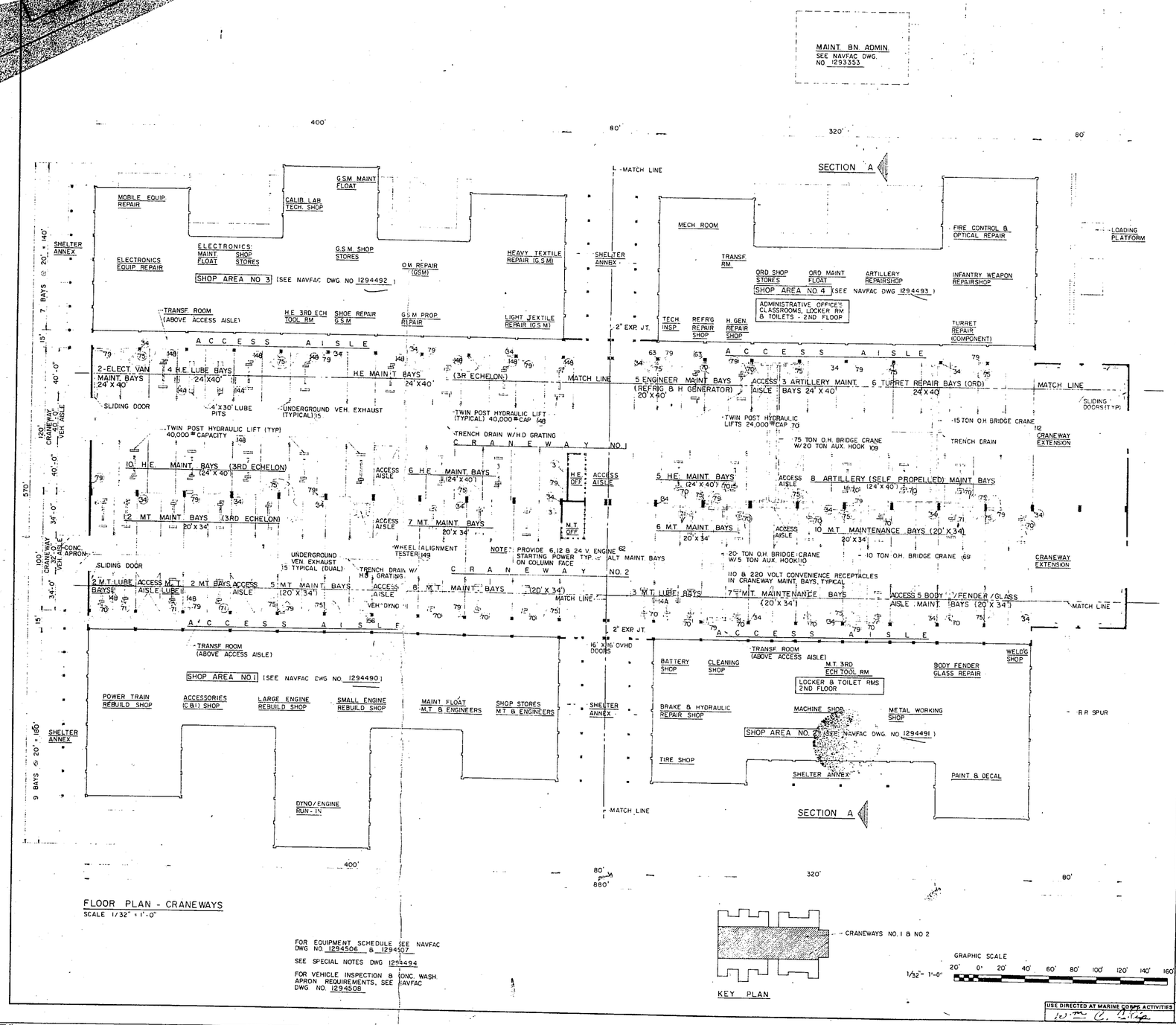


FLOOR PLAN - CRANEWAYS
SCALE 1/32" = 1'-0"

FOR EQUIPMENT SCHEDULE SEE NAVFAC DWG NO 1294506 & 1294507

SEE SPECIAL NOTES DWG 1294494

FOR VEHICLE INSPECTION & CONC. WASH. APRON REQUIREMENTS, SEE NAVFAC DWG NO. 1294508

PLUMBING REQUIREMENTS

COLD WATER: (PROBABLE MAXIMUM FLOW RATE IN GPM) 500

NOTE: ABOVE FLOOR RATE DOES NOT INCLUDE REQUIREMENTS FOR FIRE PROTECTION, PROCESS, AND AIR CONDITIONING.

HOT WATER:

STORAGE IN GALLONS (ELECTRIC WATER HEATER): NONE

MECHANICAL REQUIREMENTS

HEATING: (IN MBTU/HR):

INSIDE DESIGN TEMPERATURE: 60°F - SHOPS; 70°F - OFFICE & TOILETS

OUTSIDE DESIGN TEMPERATURE	-5°F	+15°F	+15°F	+25°F
	8850	7950	7065	6290

AIR CONDITIONING: (TONS OF REFRIGERATION) MAX.

INSIDE DESIGN TEMPERATURE: SEE SPECIAL NOTE III NAVFAC DWG. 1294494

OUTSIDE DESIGN TEMPERATURE: 95° FDB - 78°FWB

0

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE. ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENT SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

ELECTRICAL REQUIREMENTS

LIGHTS:

CONNECTED LOAD (KW)	274
ESTIMATED DEMAND (KW)	274

POWER:

	WITH AC (MAX. CAP)	WITHOUT AC
CONNECTED LOAD (KW)	550	550
ESTIMATED DEMAND (KW)	412	412

TOTAL:

CONNECTED LOAD (KW)	824	824
ESTIMATED DEMAND (KW)	686	686

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE. ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

AREA

GROSS AREA WITHOUT MECH. EQUIP. RM. (SQ. FT.)

MECH. EQUIP. ROOM (SQ. FT.)

GROSS AREA-TOTAL (SQ. FT.) CRANEWAY NO. 1 & 220,000

GENERAL NOTES

UTILITIES REQUIREMENTS INDICATED ARE FOR ESTIMATING PURPOSES ONLY.

AUTOMATIC SPRINKLER AND FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT D.O.D. 4270.1-M CONSTRUCTION CRITERIA AND NAVFAC DM-8.

MARINE CORPS ACTIVITIES SHALL FOLLOW THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED IN INITIATION OF CONSTRUCTION REQUIREMENTS UNLESS PRIOR AUTHORIZATION FOR CHANGE IS OBTAINED FROM THE COMMANDANT OF THE MARINE CORPS. ARCHITECTURAL TREATMENT AND MATERIAL MAY VARY WHEN NEEDED TO ACHIEVE COMPATABILITY WITH LOCAL CONSTRUCTION AND EFFECTIVE USE OF MATERIALS.

LYDES, BISSETT, CARLISLE & WOLFF
ARCHITECTS / ENGINEERS / PLANNERS
COLUMBIA WASHINGTON
BOSTON HARRISBURG

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
WASHINGTON, D.C.

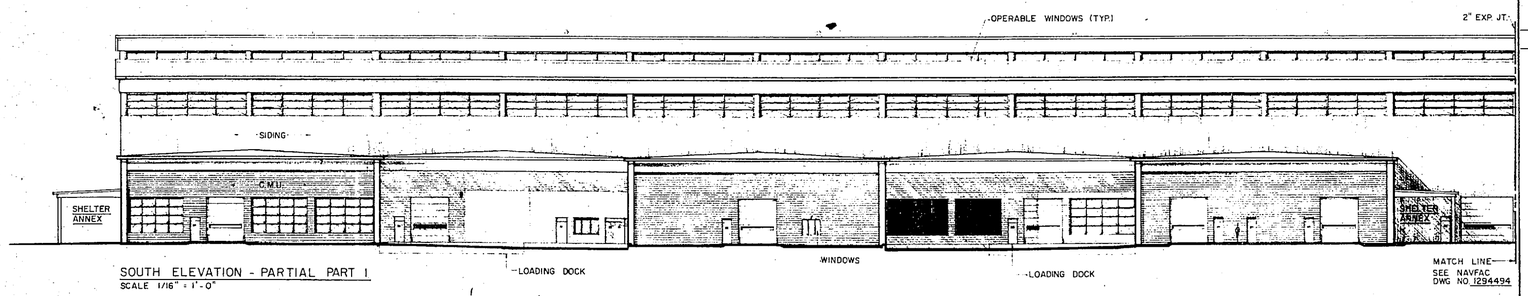
T/O M-3248

DEFINITIVE DRAWING

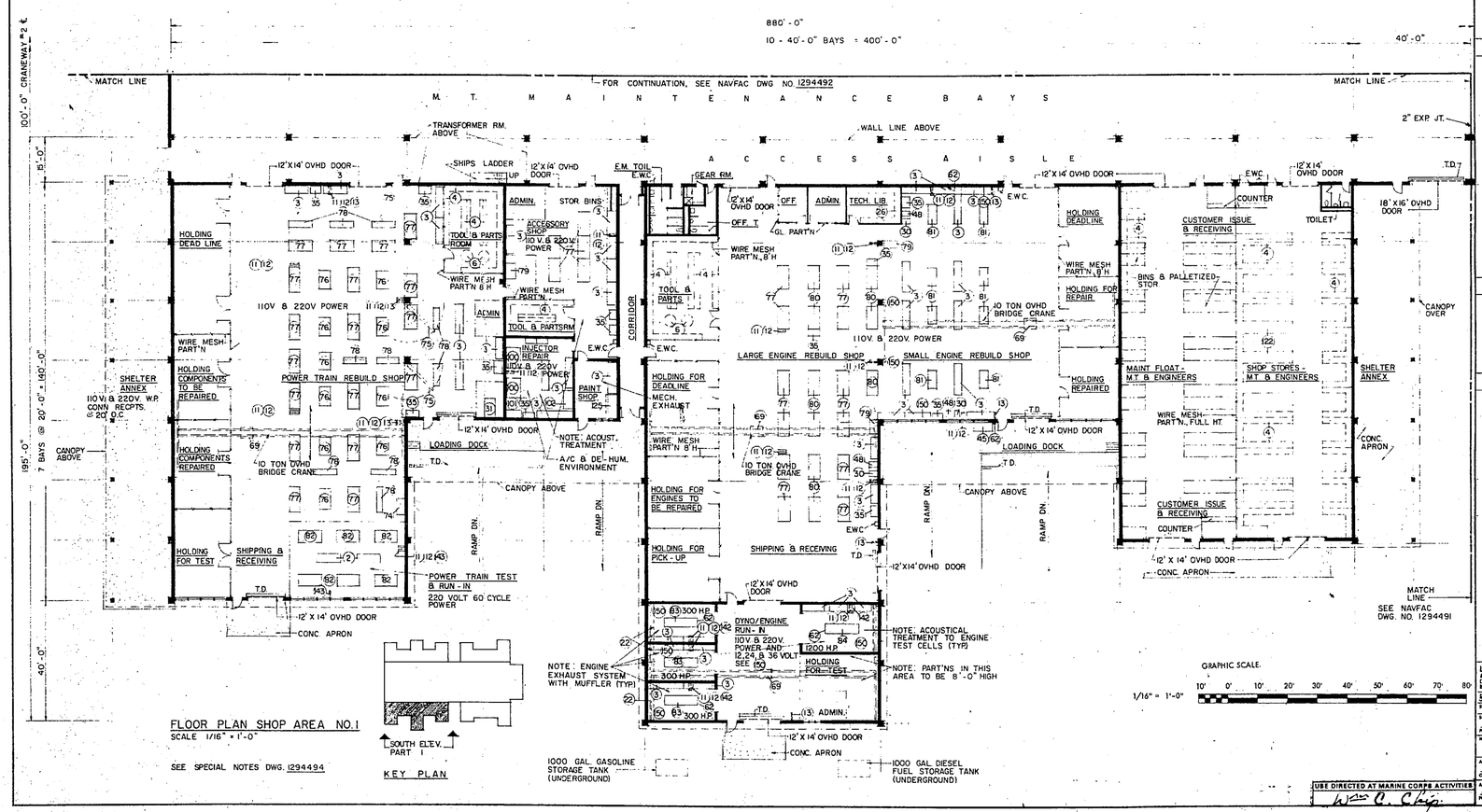
COMBAT / AUTOMOTIVE / TRACK FIELD MAINTENANCE SHOP (CRANEWAYS) MAINTENANCE BATTALION F.S.R.

SIZE F	CODE IDENT NO. 80091	NAVFAC DRAWING NO. 1294489
SCALE AS NOTED		SHEET 1 OF 6

214 - 53 - C1



SOUTH ELEVATION - PARTIAL PART I
SCALE 1/16" = 1'-0"



FLOOR PLAN SHOP AREA NO. I
SCALE 1/16" = 1'-0"

SEE SPECIAL NOTES DWG. 1294494

KEY PLAN

USE DIRECTED AT MARINE CORPS ACTIVITIES

Wm. A. Chapman

PLUMBING REQUIREMENTS

COLD WATER: (PROBABLE MAXIMUM FLOW RATE IN GPM) 70

HOT WATER:

STORAGE IN GALLONS (ELECTRIC WATER HEATER): 30

NOTE: ABOVE FLOW RATE DOES NOT INCLUDE REQUIREMENTS FOR FIRE PROTECTION, PROCESS, AND AIR CONDITIONING.

POWER REQUIREMENT FOR ELECTRIC WATER HEATERS (WHERE REQUIRED) IS NOT INCLUDED IN ELECTRICAL REQUIREMENTS.

MECHANICAL REQUIREMENTS

HEATING: (IN MBTU/HR):

INSIDE DESIGN TEMPERATURE			60°F - SHOPS	
			70°F - OFFICE & TOILETS	
OUTSIDE DESIGN TEMPERATURE	-5°F	-5°F	+15°F	+25°F
	2220	2020	1820	1615

AIR CONDITIONING: (TONS OF REFRIGERATION): MAX.

INSIDE DESIGN TEMPERATURE: SEE SPECIAL NOTES III NAVFAC DWG. 1294494
OUTSIDE DESIGN TEMPERATURE: 95° FDB - 78° FWB

1-1/2

MAXIMUM AIR CONDITIONING REQUIREMENTS APPROXIMATE. ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

ELECTRICAL REQUIREMENTS

LIGHTS:

CONNECTED LOAD (KW) 7
ESTIMATED DEMAND (KW) 7

POWER:	WITH AC MAX. CAP.	WITHOUT AC
CONNECTED LOAD (KW)	303	300
ESTIMATED DEMAND (KW)	227	225

TOTAL:

CONNECTED LOAD (KW)	375	372
ESTIMATED DEMAND (KW)	299	297

MAXIMUM AIR CONDITIONING REQUIREMENTS APPROXIMATE. ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

AREA

GROSS AREA WITHOUT MECH. EQUIP. RM. (SQ. FT.)		52,200
MECH. EQUIP. ROOM (SQ. FT.)	(TRANSFORMER RM.)	800
GROSS AREA-TOTAL (SQ. FT.)	SHOP AREA NO	53,000

GENERAL NOTES

UTILITIES REQUIREMENTS INDICATED ARE FOR ESTIMATING PURPOSES ONLY.

AUTOMATIC SPRINKLER AND FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT D.O.D. 4270.1-M CONSTRUCTION CRITERIA MANUAL AND NAVFAC DM-8.

MARINE CORPS ACTIVITIES SHALL FOLLOW THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED IN INITIATION OF CONSTRUCTION REQUIREMENTS UNLESS PRIOR AUTHORIZATION FOR CHANGE IS OBTAINED FROM THE COMMANDANT OF THE MARINE CORPS. ARCHITECTURAL TREATMENT AND MATERIAL MAY VARY WHEN NEEDED TO ACHIEVE COMPATABILITY WITH LOCAL CONSTRUCTION AND EFFECTIVE USE OF MATERIALS.

T/O M-3248

LYLES, BISSETT, CARLISLE & WOLFF
ARCHITECTS / ENGINEERS / PLANNERS
COLUMBIA ALEXANDRIA
RALEIGH HUNTSVILLE

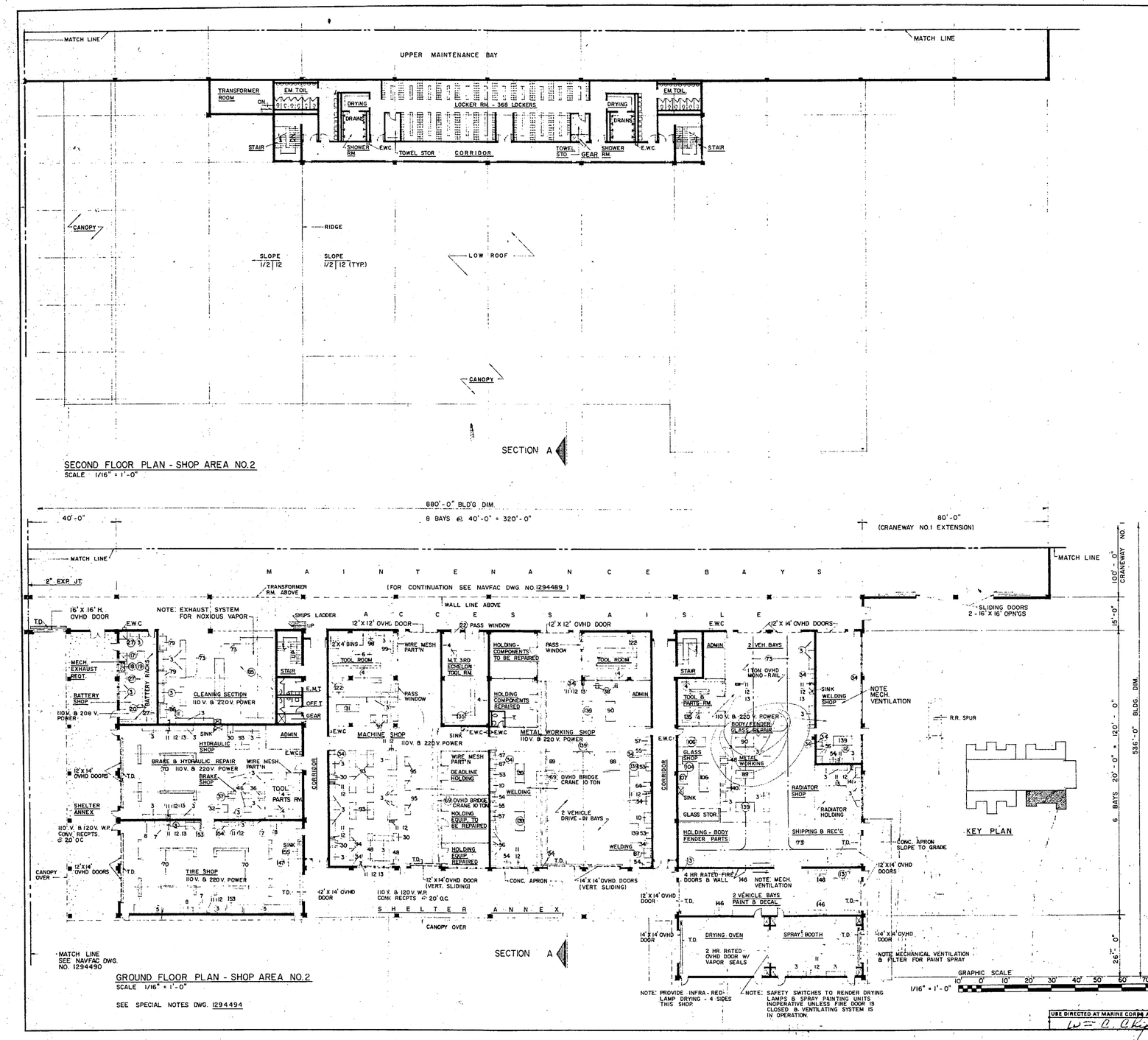
DEPARTMENT OF THE NAVY — WASHINGTON, D.C.
NAVAL FACILITIES ENGINEERING COMMAND

DRAWN: J.S. HOUSTON
REVIEWED: J.D. BROWN
DATE: 7-2-70
DR. SHOP: F. FRANKLIN
SUBMITTED BY: A.D. BLACKWELL 21 DEC 1970
PROJ. MANAGER (TITLE) PRINCIPAL
NAVFAC: 228.57
APPROVED: 228.57
DATE
OFFICER IN CHARGE
APPROVED: 4/13/71
DATE
OIC CONSULTANTS, NAVFAC

DEFINITIVE DRAWING
COMBAT/AUTOMOTIVE/TRACK
FIELD MAINTENANCE SHOP, (NO. I)
MAINTENANCE BATTALION F.S.R.

SIZE: F
CODE IDENT NO.: 80091
NAVFAC DRAWING NO.: 1294490
SCALE AS NOTED
CONTR. CONTR. NO.
SPEC.
SHEET 2 OF 6

214-53-C2



GROUND FLOOR PLAN - SHOP AREA NO.2
SCALE 1/16" = 1'-0"

SEE SPECIAL NOTES DWG. 1294494

USE DIRECTED AT MARINE CORPS ACTIVITIES

PLUMBING REQUIREMENTS

COLD WATER: (PROBABLE MAXIMUM FLOW RATE IN GPM) 108

HOT WATER:

STORAGE IN GALLONS (CONVERTORS) 840
HOT WATER RECOVERY (GPH) 668

NOTE: ABOVE FLOW RATE DOES NOT INCLUDE REQUIREMENTS FOR FIRE PROTECTION PROCESS, AND AIR CONDITIONING.

MECHANICAL REQUIREMENTS

HEATING: (IN MBTU/HR):

INSIDE DESIGN TEMPERATURE			60° F - SHOPS 70° F - OFFICE & TOILETS	
OUTSIDE DESIGN TEMPERATURE	-5°F	+5°F	+15°F	+25°F
	1980	805	1640	1460

AIR CONDITIONING: (TONS OF REFRIGERATION): MAX.

INSIDE DESIGN TEMPERATURE SEE SPECIAL NOTES III. NAVFAC DWG. 1294494
OUTSIDE DESIGN TEMPERATURE 95°FDB - 78°FWB

0

MECHANICAL VENTILATION SHALL BE PROVIDED FOR BATTERY SHOP

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE, ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1 - M.

ELECTRICAL REQUIREMENTS

LIGHTS:

CONNECTED LOAD (KW) 64
ESTIMATED DEMAND (KW) 64

POWER:	WITH AC MAX. CAP.	WITHOUT AC
CONNECTED LOAD (KW)	275	275
ESTIMATED DEMAND (KW)	206	206

TOTAL:		
CONNECTED LOAD (KW)	339	339
ESTIMATED DEMAND (KW)	270	270

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE, ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1 - M.

AREA

GROSS AREA WITHOUT MECH. EQUIP. RM. (SQ. FT.)
MECH. EQUIP. ROOM (SQ. FT.)
GROSS AREA—TOTAL (SQ. FT.) 47,500

GENERAL NOTES

UTILITIES REQUIREMENTS INDICATED ARE FOR ESTIMATING PURPOSES ONLY.

AUTOMATIC SPRINKLER AND FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT D.O.D. 4270.1-M CONSTRUCTION CRITERIA MANUAL AND NAVFAC. DM-8.

MARINE CORPS ACTIVITIES SHALL FOLLOW THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED IN INITIATION OF CONSTRUCTION REQUIREMENTS UNLESS PRIOR AUTHORIZATION FOR CHANGE IS OBTAINED FROM THE COMMANDANT OF THE MARINE CORPS, ARCHITECTURAL TREATMENT AND MATERIAL MAY VARY WHEN NEEDED TO ACHIEVE COMPATABILITY WITH LOCAL CONSTRUCTION AND EFFECTIVE USE OF MATERIALS.

LYLES, BISSETT, CARLISLE & WOLFF
ARCHITECTS / ENGINEERS / PLANNERS
LANDSCAPE ARCHITECTS
RICHMOND

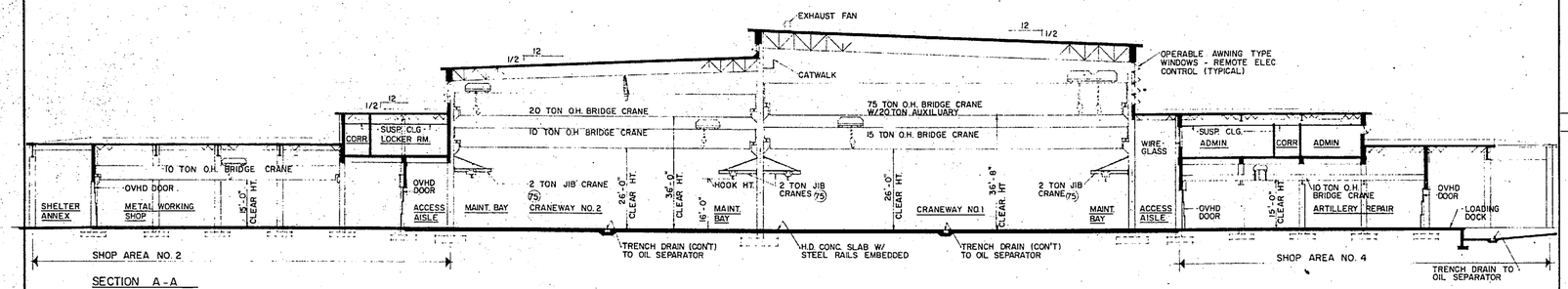
DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
WASHINGTON, D.C.

T/O M-3248,

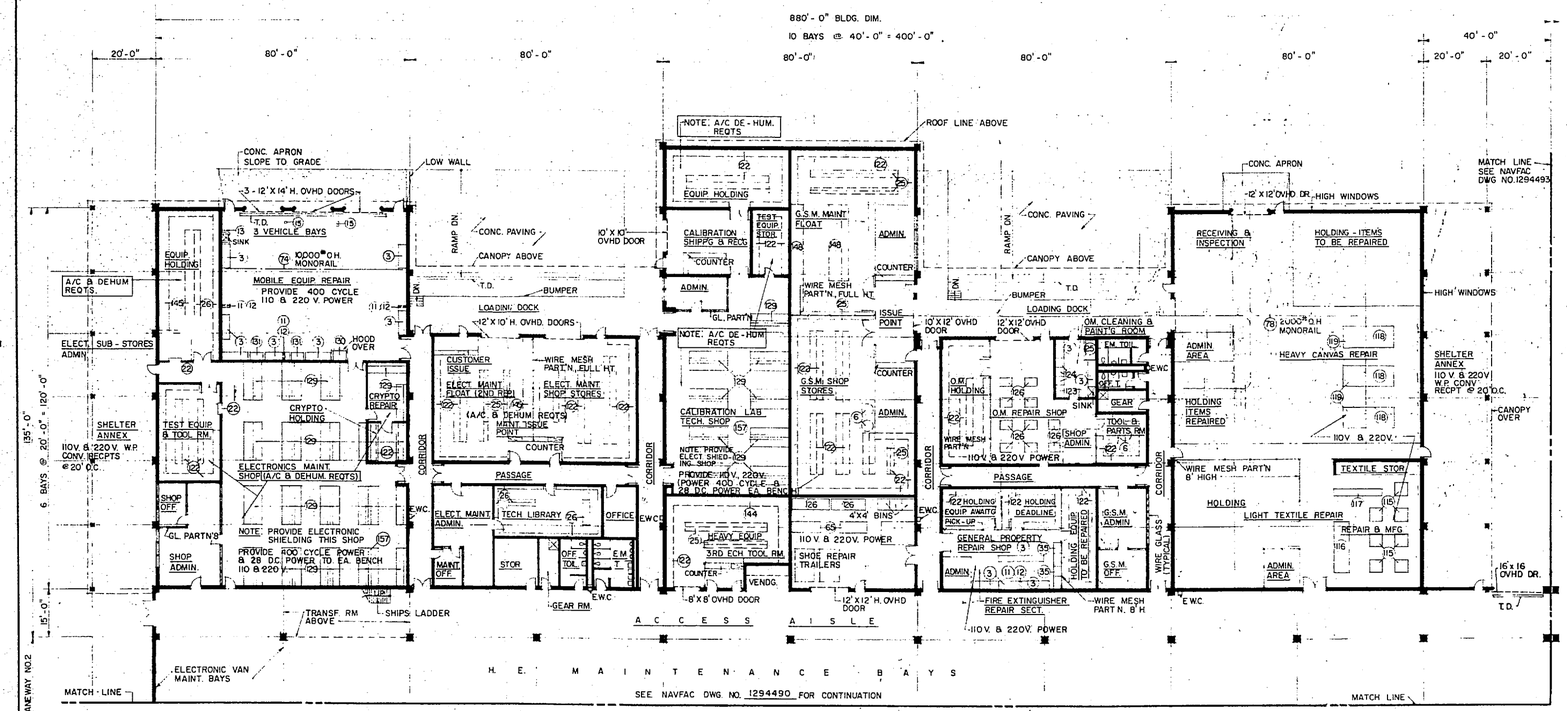
DEFINITIVE DRAWING
COMBAT/AUTOMOTIVE/TRACK
FIELD MAINTENANCE SHOP (NO.2)
MAINTENANCE BATTALION, F.S.R.

NAVFAC DRAWING NO. 1294491
CODE IDENT NO. 80091
SIZE F
SCALE AS NOTED
SHEET 3 OF 6

214-53-C3



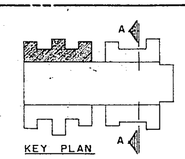
SECTION A-A
SCALE: 1/16" = 1'-0"



FLOOR PLAN - SHOP AREA NO 3
SCALE 1/16" = 1'-0"

NOTE: CRYPTO REPAIR & HOLDING AREAS SHALL BE RED & BLACK SECURITY, IN ACCORDANCE WITH _____ CRITERIA

SEE SPECIAL NOTES DWG. 1294494



KEY PLAN

GRAPHIC SCALE
1/16" = 1'-0"
10' 0' 10' 20' 30' 40' 50' 60' 70' 80'

USE DIRECTED AT MARINE CORPS ACTIVITIES

PLUMBING REQUIREMENTS

COLD WATER: (PROBABLE MAXIMUM FLOW RATE IN GPM) 77

HOT WATER:

STORAGE IN GALLONS (ELECTRIC WATER HEATER) 40

NOTE: ABOVE FLOW RATE DOES NOT INCLUDE REQUIREMENTS FOR FIRE PROTECTION, PROCESS, AND AIR CONDITIONING.

POWER REQUIREMENT FOR ELECTRIC WATER HEATERS (WHERE REQUIRED) IS NOT INCLUDED IN ELECTRICAL REQUIREMENTS.

MECHANICAL REQUIREMENTS

HEATING: (IN MBTU/HR):

INSIDE DESIGN TEMPERATURE	60°F - SHOPS 70°F - OFFICE AND TOILETS			
OUTSIDE DESIGN TEMPERATURE	-5°F	+5°F	+15°F	+25°F
	1990	1825	1650	1470

AIR CONDITIONING: (TONS OF REFRIGERATION): MAX.

INSIDE DESIGN TEMPERATURE SEE SPECIAL NOTES III NAVFAC DWG. 1294494
OUTSIDE DESIGN TEMPERATURE 95° FDB - 78° FWB

41

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE. ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

ELECTRICAL REQUIREMENTS

LIGHTS:

CONNECTED LOAD (KW)	66
ESTIMATED DEMAND (KW)	66

POWER:	WITH AC MAX. CAP.	WITHOUT AC
CONNECTED LOAD (KW)	167	100
ESTIMATED DEMAND (KW)	125	75

TOTAL:		
CONNECTED LOAD (KW)	233	166
ESTIMATED DEMAND (KW)	191	141

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE. ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

AREA

GROSS AREA WITHOUT MECH. EQUIP. RM. (SQ. FT.)	47,200
MECH. EQUIP. ROOM (SQ. FT.)	800
GROSS AREA-TOTAL (SQ. FT.)	48,000

GENERAL NOTES

UTILITIES REQUIREMENTS INDICATED ARE FOR ESTIMATING PURPOSES ONLY.

AUTOMATIC SPRINKLER AND FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT D.O.D. 4270.1-M CONSTRUCTION CRITERIA MANUAL AND NAVFAC DM-8.

MARINE CORPS ACTIVITIES SHALL FOLLOW THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED IN INITIATION OF CONSTRUCTION REQUIREMENTS UNLESS PRIOR AUTHORIZATION FOR CHANGE IS OBTAINED FROM THE COMMANDANT OF THE MARINE CORPS. ARCHITECTURAL TREATMENT AND MATERIAL MAY VARY WHEN NEEDED TO ACHIEVE COMPATABILITY WITH LOCAL CONSTRUCTION AND EFFECTIVE USE OF MATERIALS.

T/O M-3248

LYLES, BISSETT, CARLISLE & WOLFF
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COLUMBIA MARYLAND
VALDOSTA GEORGIA

DEPARTMENT OF THE NAVY WASHINGTON, D.C.
NAVAL FACILITIES ENGINEERING COMMAND

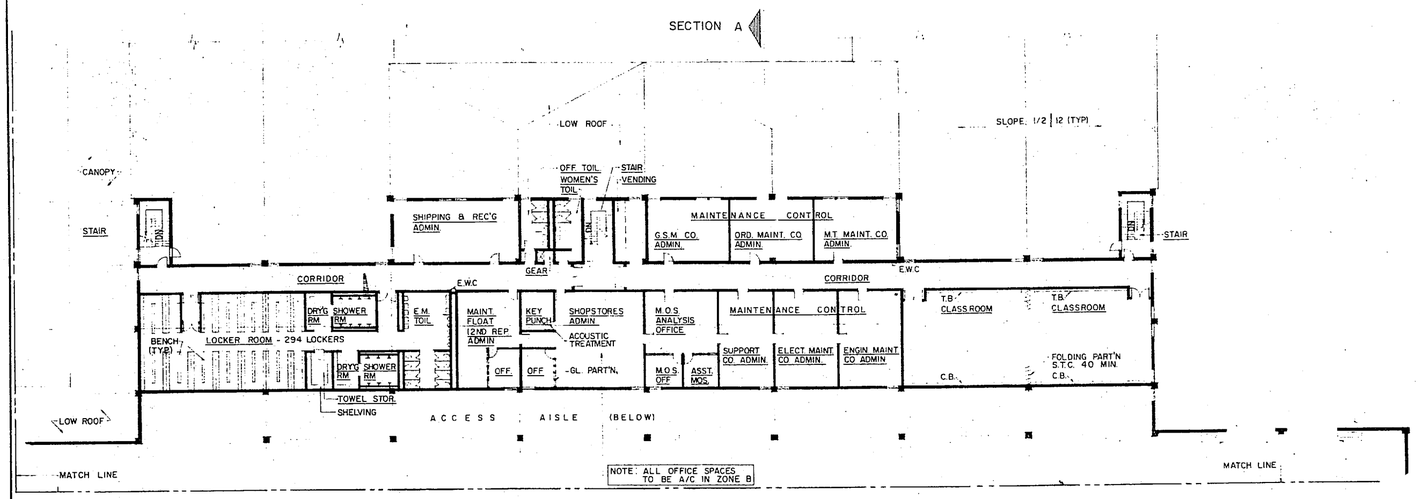
DEFINITIVE DRAWING
GENERAL SUPPLY/ELECTRONICS & COMM. FIELD MAINTENANCE SHOP (NO.3)
MAINTENANCE BATTALION F.S.R.

NAVFAC DRAWING NO. 1294492

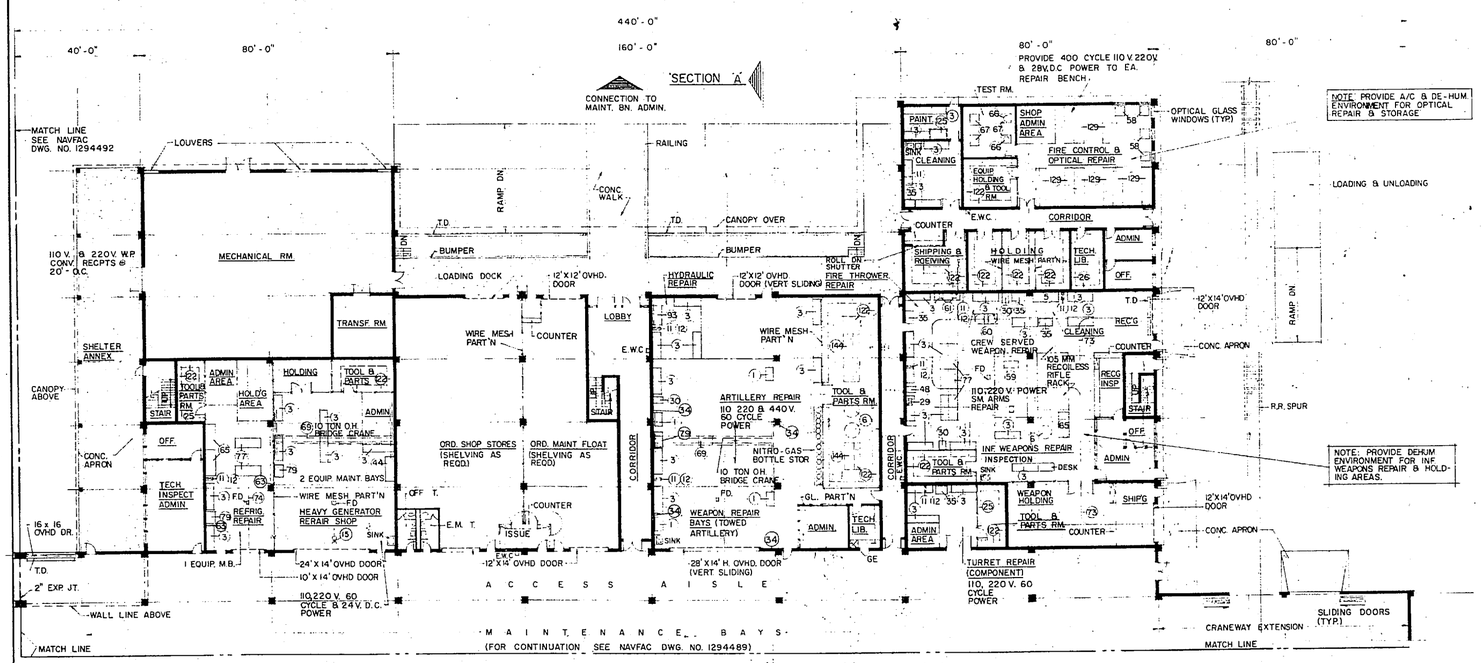
SIZE F | CODE IDENT NO. 80091 | SCALE AS NOTED

UNIT 4 OF 6

214-53-04/217-30/218-80



SECOND FLOOR PLAN - SHOP AREA NO4
SCALE 1/16" = 1'-0"

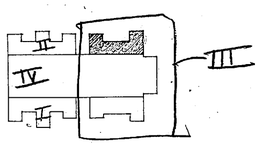


GROUND FLOOR PLAN - SHOP AREA NO. 4
SCALE 1/16" = 1'-0"

SECTION A

NOTES:
1. PROVIDE 2 TEST FIRE PITS FOR SMALL ARMS TESTING, ADJACENT TO MAINT. FACILITY.
2. DRAIN ALL TRENCH DRAINS TO AN OIL SEPARATOR

SEE SPECIAL NOTES DWG 1294494



KEY PLAN

GRAPHIC SCALE
1/16 = 1'-0"
10' 0' 10' 20' 30' 40' 50' 60' 70' 80'

PLUMBING REQUIREMENTS

COLD WATER: (PROBABLE MAXIMUM FLOW RATE IN GPM) 100

HOT WATER:

STORAGE IN GALLONS (CONVERTORS)	755
HOT WATER RECOVERY (GPH)	580

NOTE: ABOVE FLOW RATE DOES NOT INCLUDE REQUIREMENTS FOR FIRE PROTECTION, PROCESS, AND AIR CONDITIONING.

MECHANICAL REQUIREMENTS

HEATING: (IN MBTU/HR):

INSIDE DESIGN TEMPERATURE			60° F - SHOPS 70° F - OFFICE & TOILETS	
OUTSIDE DESIGN TEMPERATURE	-5°F	+5°F	+15°F	+25°F
	2220	2040	1860	1680

AIR CONDITIONING: (TONS OF REFRIGERATION): MAX.

INSIDE DESIGN TEMPERATURE	SEE SPECIAL NOTES III NAVFAC DWG. 1294494
OUTSIDE DESIGN TEMPERATURE	95° FDB - 78° FWB
	82

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE. ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

ELECTRICAL REQUIREMENTS

LIGHTS:

CONNECTED LOAD (KW)	66
ESTIMATED DEMAND (KW)	66

POWER:	WITH AC MAX CAP.	WITHOUT AC
CONNECTED LOAD (KW)	261	130
ESTIMATED DEMAND (KW)	196	98

TOTAL:		
CONNECTED LOAD (KW)	327	196
ESTIMATED DEMAND (KW)	262	164

MAXIMUM AIR CONDITIONING REQUIREMENT IS APPROXIMATE. ACTUAL SPACES TO BE AIR CONDITIONED AND REQUIREMENTS SHALL BE BASED ON D.O.D. CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M.

AREA

GROSS AREA WITHOUT MECH. EQUIP. RM. (SQ. FT.)	48,000
MECH. EQUIP. ROOM (SQ. FT.)	4,800
GROSS AREA-TOTAL (SQ. FT.)	52,800

GENERAL NOTES

UTILITIES REQUIREMENTS INDICATED ARE FOR ESTIMATING PURPOSES ONLY.

AUTOMATIC SPRINKLER AND FIRE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH CURRENT D.O.D CONSTRUCTION CRITERIA MANUAL NO. 4270.1-M. AND NAVFAC DM-8.

MARINE CORPS ACTIVITIES SHALL FOLLOW THE ARRANGEMENT AND FUNCTIONAL LAYOUT INDICATED IN INITIATION OF CONSTRUCTION REQUIREMENTS UNLESS PRIOR AUTHORIZATION FOR CHANGE IS OBTAINED FROM THE COMMANDANT OF THE MARINE CORPS. ARCHITECTURAL TREATMENT AND MATERIAL MAY VARY WHEN NEEDED TO ACHIEVE COMPATABILITY WITH LOCAL CONSTRUCTION AND EFFECTIVE USE OF MATERIALS.

T/O²M-3248

LYLES, BISSETT, CARLISLE & WOLFF
ARCHITECTS / ENGINEERS / PLANNERS
COLUMBIA WASHINGTON
VALDOSTA ALEXANDRIA

DEPARTMENT OF THE NAVY WASHINGTON, D.C.
NAVAL FACILITIES ENGINEERING COMMAND

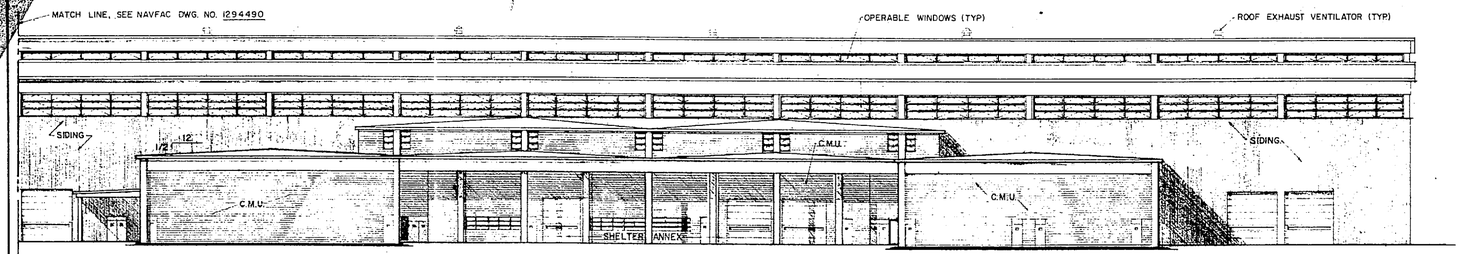
DESIGNED J.R. HOUSTON
DRAWN J.G.S.O. / J.F. BROWN
CHECKED J.K. HOWSON / J.F. BRADNUM
SUBMITTED W.D. BLACKWELL 21 DEC 1970
PUBLIC WORKS OFFICER P.W.O. NAVFAC
APPROVED DATE
OFFICER IN CHARGE
APPROVED 4/13/71 DATE
FOR COMMANDER NAVFAC

DEFINITIVE DRAWING
ORDNANCE FIELD MAINTENANCE SHOP (NO.4)
MAINTENANCE BATTALION F.S.R.

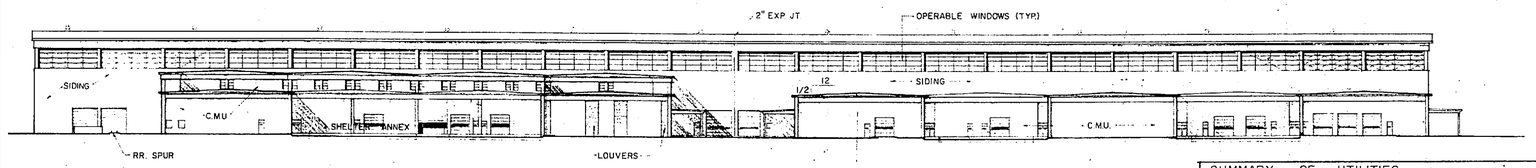
USE DIRECTED AT MARINE CORP ACTIVITIES
W. C. King

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	1294493
SCALE AS NOTED		CONTRL CONTL. NO.
		SHEET 5 OF 6

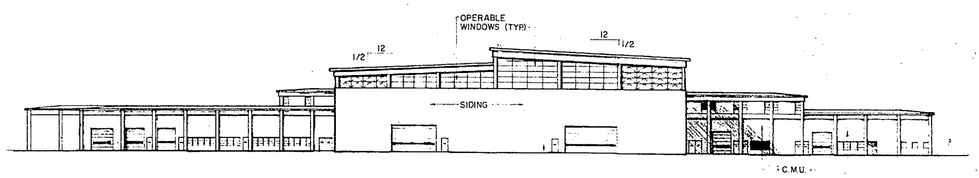
214-53-C5 & 215-60-B



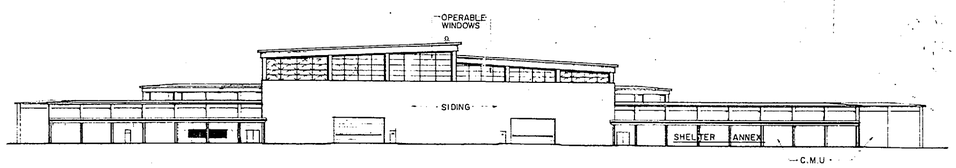
SOUTH ELEVATION PART - 2
SCALE 1/16" = 1'-0"



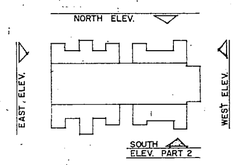
NORTH ELEVATION
SCALE 1/32" = 1'-0"



EAST ELEVATION
SCALE 1/32" = 1'-0"



WEST ELEVATION
SCALE 1/32" = 1'-0"



KEY PLAN.

SUMMARY OF UTILITIES

PLUMBING NO DIVERSITY - EXCEPT ON COLD WATER

COLD WATER - (PROBABLE MAX. FLOW RATE IN GPM)		250
HOT WATER (SEE INDIVIDUAL DRAWINGS)		

MECHANICAL

HEATING (MBTU/HR):

INSIDE DESIGN TEMPERATURE		60°F SHOPS		
		70°F OFFICE & TOILETS		
OUTSIDE DESIGN TEMPERATURE	-5°F	+5°F	+15°F	+25°F
	17260	15670	14036	12515

AIR CONDITIONING: - TONS OF REFRIGERATION - MAX.

INSIDE DESIGN TEMPERATURE - SEE SPECIAL NOTES III. THIS DRAWING.
OUTSIDE DESIGN TEMPERATURE 95°FDB - 78°FWB
123 1/2

ELECTRICAL

LIGHTS

CONNECTED LOAD (KW)	542
ESTIMATED DEMAND (KW)	542

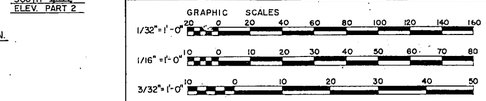
POWER

	WITH A.C. MAX. CAP	WITHOUT A.C.
CONNECTED LOAD (KW)	1508	1355
ESTIMATED DEMAND (KW)	1128	1016

TOTAL

CONNECTED LOAD (KW)	2050	1897
ESTIMATED DEMAND (KW)	1670	1558

GRAPHIC SCALES



SPECIAL NOTES

DESIGN GUIDES

I ARCHITECTURAL

UNLESS OTHERWISE NOTED, ALL SUPPORT SHOP AND OFFICE WINDOW AND DOOR LOCATIONS ARE APPROXIMATE AND SERVE AS A DESIGN GUIDE FOR PLACEMENT.

SUBJECT TO LOCAL CLIMATIC CONDITIONS WINDOWS AND MECHANICAL VENTILATION SHALL BE SIZED TO PERMIT ADEQUATE VENTILATION IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE ANNUAL GUIDE OF THE AMERICAN SOCIETY OF HEATING, REFRIGERATION AND AIR CONDITIONING ENGINEERS

GLASS AREA OF WINDOWS IN WORK AREAS SHALL BE IN ACCORDANCE WITH THE LATEST U.S.A.S.I. STANDARD A 1

THE CRANEWAY SHALL HAVE CONTINUOUS OPERABLE CLEARSTORY WINDOWS WITH REMOTE ELECTRICAL CONTROLS.

SIDING MATERIAL OF THE CRANEWAY WALLS SHALL BE A RIBBED INSULATED METAL SIDING ON STEEL GIRTS WITH A "U" VALUE OF .13 B.T.U./HR/SQ FT/F° IN STILL AIR.

II ELECTRICAL

A. AN ELECTRICAL DISTRIBUTION SYSTEM WITH A MAXIMUM OF 440 VOLTS 60 CYCLE ELECTRICAL SERVICE WITH DISTRIBUTION PANELS FOR DISTRIBUTION OF 110 V., 220 V. AND 440 VOLTAGE REQUIREMENTS.

ELECTRICAL OUTLETS TO SERVE ITEMS OF EQUIPMENT LISTED IN THE EQUIPMENT SCHEDULE SHALL BE LOCATED IN ACCORDANCE WITH THE EQUIPMENT LOCATIONS SHOWN ON THE PLANS.

ADDITIONAL CONVENIENCE OUTLETS SHALL BE LOCATED IN THE SHOP AREAS TO SERVE ITEMS OF MISCELLANEOUS BENCH MOUNTED TOOLS PECULIAR TO THE TABLE OF EQUIPMENT FOR THE MARINE CORPS UNITS ASSIGNED.

B. SPECIAL ELECTRICAL POWER REQUIREMENTS, SUCH AS OUTLETS FOR PORTABLE ARC WELDING EQUIPMENT, ENGINE STARTING OUTLETS (6, 12 & 24 VOLT) IN THE ENGINE RUN-IN/DYNAMOMETER SHOP AND MAINTENANCE BAYS OF THE CRANEWAYS SHALL BE PROVIDED (SEE FLOOR PLANS AND EQUIPMENT SCHEDULES).

C. ELECTRONIC MAINTENANCE AND CALIBRATION SHOPS REQUIRE BENCH MOUNTED CONVENIENCE OUTLETS FOR 400 CYCLE, 110, 220 AND 28 VOLT D.C. WITH 10 OHM GROUNDING RADIO FREQUENCY SHIELDING SHALL BE PROVIDED IN THESE ELECTRONIC SHOP AREAS.

THE OPTICAL AND FIRE CONTROL MAINTENANCE SHOPS REQUIRE BENCH MOUNTED CONVENIENCE OUTLETS FOR 400 CYCLE, 110, 220 VOLT AND 28 VOLT D.C. POWER

EXTERIOR ANNEX AREAS REQUIRE 110 AND 220 VOLT WATERPROOF CONVENIENCE OUTLETS LOCATED APPROXIMATELY 20 FEET ON CENTERS TO SERVE SHOP SUPPORT VANS AND POWER TOOLS.

D. LIGHTING - LOW BAY WORK AREAS SHALL HAVE FLUORESCENT TYPE LIGHTING WITH SUPPLEMENT LUMINAIRE LIGHTING AT CRITICAL AREAS.

HIGH BAY WORK AREAS SHALL HAVE FLUORESCENT AND/OR MERCURY VAPOR LIGHTING IN CRITICAL AREAS

NON - CRITICAL AND SERVICE AREAS, SUCH AS MECHANICAL ROOM, CORRIDORS, TOILETS, STORAGE AREAS, LOCKER ROOMS, ETC. SHALL HAVE INCANDESCENT LIGHTING

ALL ILLUMINATION SHALL BE IN ACCORDANCE WITH "RECOMMENDED LEVELS OF ILLUMINATION" ILLUMINATING ENGINEERING SOCIETY.

III AIR CONDITIONING AND HUMIDITY CONTROL IS REQUIRED IN THE FOLLOWING AREAS;

A. ELECTRONIC MAINTENANCE AND EQUIPMENT HOLDING AREAS 75° TO 80°F., RELATIVE HUMIDITY - 40% TO 50%.

B. OPTICAL AND FIRE CONTROL MAINTENANCE SHOPS AND EQUIPMENT HOLDING AREAS, 70° TO 72° F. RELATIVE HUMIDITY - 40% MAX. WITH POSITIVE PRESSURE FOR DUST FREE ATMOSPHERE.

C. CALIBRATION MAINT. MECH. 68° ± 2° ELECT. & INJECTOR REPAIR, 70° TO 74° F., RELATIVE HUMIDITY - 40% TO 50%

D. OFFICE MACHINE REPAIR SHOP AND EQUIPMENT HOLDING 75° TO 80° F. RELATIVE HUMIDITY - 40% TO 50%.

E. ADMINISTRATIVE OFFICES ON THE 2ND FLOOR OF SHOP AREA NO. 4, 80°D.B

F. HUMIDITY CONTROL IS REQUIRED FOR THE FOLLOWING AREAS;

1) SMALL ARMS MAINTENANCE AND HOLDING AREAS - 40% TO 50% R.H.

IV UNDERGROUND VEHICLE EXHAUST SYSTEM SHALL BE PROVIDED IN CRANEWAY MAINTENANCE BAYS, HEAVY GENERATOR REPAIR AND ELECTRONIC MOBILE EQUIPMENT REPAIR BAYS.

A SPECIAL SEPARATE ENGINE EXHAUST SYSTEM WITH MUFFLER SHALL BE PROVIDED FOR THE DYNAMOMETER ENGINE RUN-IN FACILITY.

V COMPRESSED AIR SYSTEM 150 P.S.I. WITH WATER SEPARATOR, PRESSURE REGULATING VALVES AND BIBS SHALL BE LOCATED IN ALTERNATE BAYS OF THE CRANEWAYS AND IN ALL MAINTENANCE SHOPS.

VI HOT AND COLD WATER SHALL BE PROVIDED TO ALL MAINTENANCE SHOPS, TOILETS, SHOWER ROOMS, GEAR ROOMS AND CRANEWAYS.

COLD WATER HOSE BIBS SHALL BE PROVIDED AT BUILDING EXTERIOR AND LOCATED AT MAXIMUM SPACING OF 150 FEET.

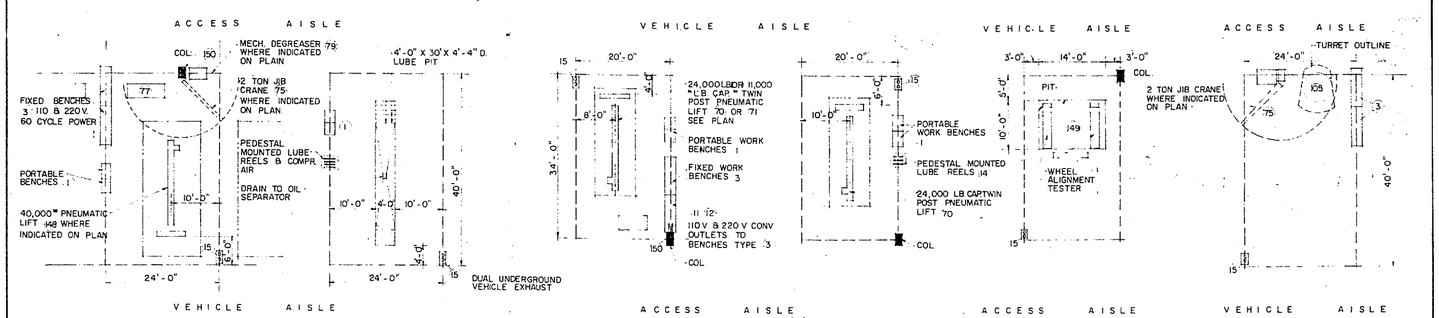
COLD WATER HOSE BIBS SHALL BE LOCATED AT OUTSIDE WASH APRONS, 2 PER VEHICLE APRON, AND RECESSED BELOW THE SURFACE.

A SUB-SURFACE HOSE STORAGE BIN WITH COVER AND DRAIN SHALL BE PROVIDED ADJACENT TO WASH APRONS

VII STEAM LIVE STEAM SHALL BE PROVIDED TO THE CLEANING SECTION EQUIPMENT AND TO OUTSIDE VEHICLE WASH APRONS 2 BIBS RECESSED BELOW THE SURFACE. STEAM PRESSURE REQUIREMENT IS 100 P.S.I.

CRANEWAY AREA DETAILS

SCALE 3/32" = 1'-0"



TYPICAL H.E. MAINTENANCE BAY

TYPICAL H.E. LUBE BAY

TYPICAL M.T. MAINTENANCE BAY

TYPICAL M.T. LUBE BAY

TYPICAL WHEEL ALIGNMENT BAY

TYPICAL TURRET REPAIR BAY

USE DIRECTED AT MARINE CORPS ACTIVITIES

W. C. Chase

T/O M-3248

EYLES, BISSETT, CARLISLE & WOLFF ARCHITECTS / ENGINEERS / PLANNERS COLUMBIA WASHINGTON HOLTON ALEXANDRIA

DESIGN: J. R. HOUSTON DRAWN: E. L. W. CHECK: W. BROWN
NOTE: W. HOUSTON ON BASE F. FRANKLIN
SUBMITTED BY: H. D. BLACKWELL DATE: 21 DEC. 1970
PER: MANAGER (TITLE) PW-NAVFAC
NAVFAC: [illegible]
APPROVED: DATE
OFFICER IN CHARGE: DATE
APPROVED: [illegible] 4/12/72 DATE
FOR COMMANDER, NAVFAC

DEPARTMENT OF THE NAVY — WASHINGTON, D.C.
NAVAL FACILITIES ENGINEERING COMMAND

DEFINITIVE DRAWING
COMBAT/AUTOMOTIVE/TRACK FIELD MAINTENANCE SHOP (ELEV.)
MAINTENANCE BATTALION F.S.R.

SIZE: F — CODE IDENT NO.: 80091 — NAVFAC DRAWING NO.: 1294494
SCALE AS NOTED — CONFIG. CONTR. NO. — SPEC. — SHEET 6 OF 6

214-53-C6