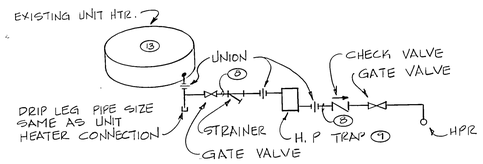
REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED

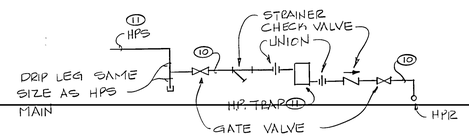
SYMBOL LEGEND

UH #1	UNIT HEATER
A.P.	ANCHOR POINT
H.P.S.	HIGH PRESSURE STEAM SUPPLY
H.P.R.	HIGH PRESSURE STEAM RETURN
DWG.	DRAWING
(1)	NOTE SYMBOL
(T)	THERMOSTAT
(1)	DOOR NUMBER
——	PIPE TURNED DOWN
——	PIPE TURNED UP
——	HPS OR HPR
— — —	EXIST HPS OR HPR
	DOTTED EQUIP. INDICATES EXIST.
℄	CENTERLINE
CONC.	CONCRETE
ALUM.	ALUMINUM
FDN.	FOUNDATION
GND.	GROUND
TYP.	TYPICAL



TYPICAL UNIT HEATER PIPING

NO SCALE



TYPICAL END OF MAIN PIPING

NO SCALE

NOTES

(1) REMOVE EXISTING HPR AND PROVIDE NEW 1" HPR PIPING FROM POINT "A" TO POINT "B".

(2) REMOVE EXISTING HPR AND PROVIDE NEW 1 1/4" HPR PIPING FROM POINT "B" TO POINT "C".

(3) REMOVE EXISTING HPR AND PROVIDE NEW 1 1/2" HPR PIPING FROM POINT "C" TO POINT "D".

(4) REMOVE EXISTING HPR AND PROVIDE NEW 2" HPR PIPING FROM POINT "D" TO POINT "E".

(5) REMOVE EXISTING HPR AND PROVIDE NEW 1" HPR FROM POINT "F" TO POINT "G"

(6) REMOVE EXISTING HPR AND PROVIDE NEW 1 1/4" HPR FROM POINT "G" TO POINT "E".

(7) REMOVE EXISTING HPR AND PROVIDE NEW 2 1/2" HPR FROM POINT "E" TO POINT "H". REMOVE EXISTING HPR FROM EXISTING FLASH TANK AND CONNECT NEW 2 1/2 HPR TO EXISTING FLASH TANK.

(8) REMOVE ALL EXISTING AND PROVIDE NEW 1" HPR PIPING, GATE VALVES, CHECK VALVES, STRAINERS, UNIONS AND FITTINGS FROM EXISTING UNIT HEATERS TO NEW HPR MAINS.

(9) REMOVE EXISTING HP TRAPS AND PROVIDE NEW INVERTED BUCKET STEAM TRAPS. NEW TRAPS SHALL HAVE A CAPACITY of 1500 LBS. CONDENSATE PER HOUR EACH WITH 100 PSIG INLET STEAM PRESSURE AND 80 PSIG PRESSURE DROP ACROSS TRAP.

(10) REMOVE ALL EXISTING AND PROVIDE NEW 1" HPR PIPING, GATE VALVES, CHECK VALVES, STRAINERS, UNIONS AND FITTINGS FROM EXISTING HPS DRIP LEG TO NEW HPR MAINS.

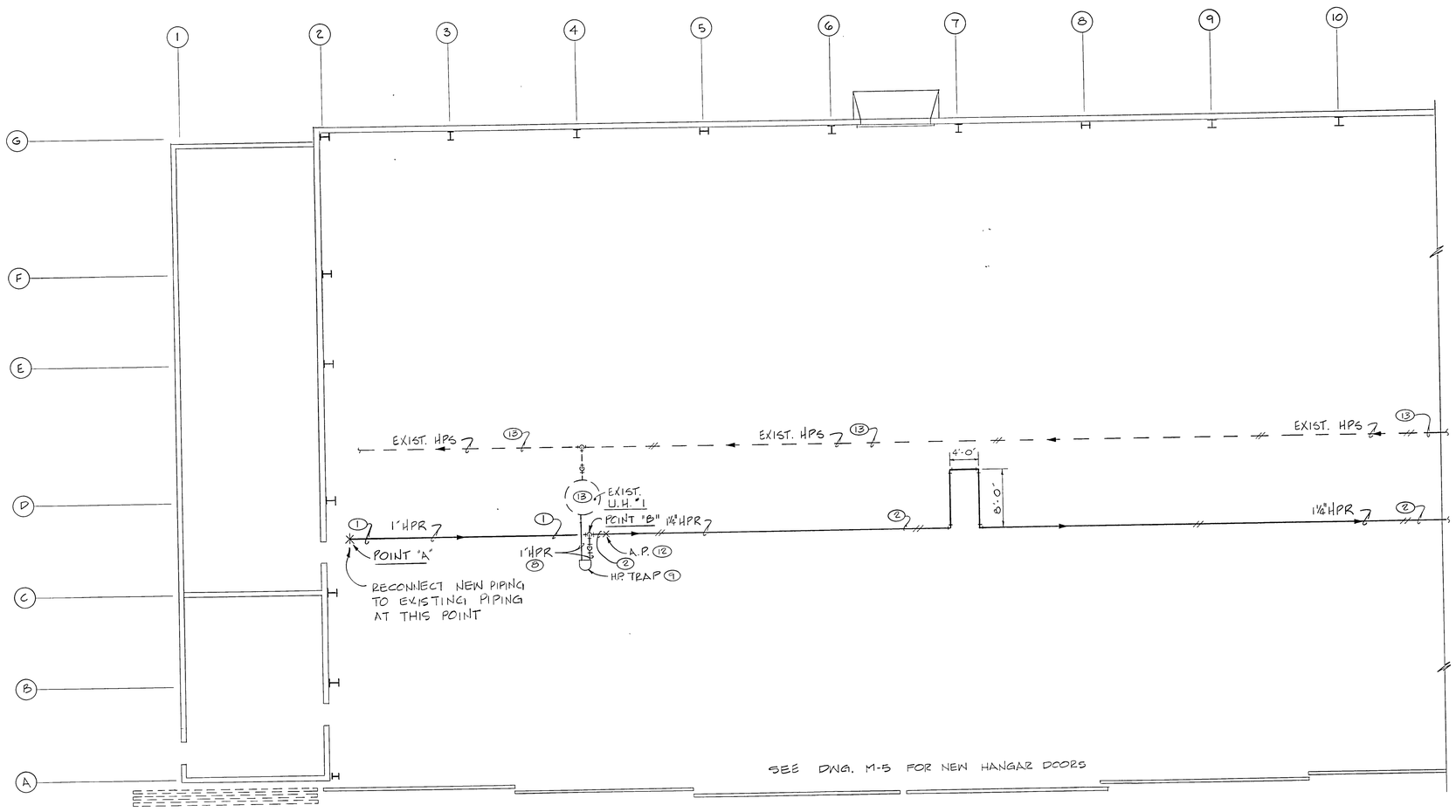
(11) REMOVE EXISTING H.P. TRAPS AND PROVIDE NEW INVERTED BUCKET STEAM TRAPS. NEW TRAPS SHALL HAVE A CAPACITY OF 700 LB. CONDENSATE PER HOUR EACH WITH 100 PSIG INLET STEAM PRESSURE AND 80 PSIG PRESSURE DROP ACROSS TRAP.

(12) PROVIDE ANCHOR POINTS FOR ALL NEW PIPING. ALL EXISTING UNDAMAGED ANCHOR POINTS MAY BE REUSED ON NEW PIPING. REMOVE ALL EXISTING DAMAGED ANCHOR POINTS AND PROVIDE NEW ANCHOR POINTS. ALL NEW PIPING SHALL BE CONNECTED TO ANCHOR POINTS.

(13) EXISTING ITEMS TO REMAIN.

(14) PROVIDE PIPE HANGERS AND SUPPORTS FOR ALL NEW PIPING. ALL EXISTING UNDAMAGED PIPE HANGERS AND SUPPORTS MAY BE REUSED ON NEW PIPING. REMOVE ALL EXISTING DAMAGED PIPE HANGERS AND SUPPORTS AND PROVIDE NEW PIPE HANGERS AND SUPPORTS. ALL NEW PIPING SHALL BE CONNECTED TO PIPE HANGERS AND SUPPORTS.

(15) PROVIDE NEW PIPE INSULATION ON ALL NEW PIPING. REPAIR EXISTING PIPE INSULATION WHERE NEW AND EXISTING BUTTS TOGETHER AND WHERE EXISTING PIPE INSULATION WAS DAMAGED DURING REMOVAL OF EXISTING PIPING.



FOR CONTINUATION SEE DWG. M-2

FLOOR PLAN - MODULE ONE

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

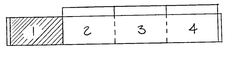
GRAPHIC SCALE

1/8" = 1'-0"

1" = 200'-0"

0 10 20 30

0 200 400 600 800



KEY PLAN

SCALE: 1" = 200'-0"

AS BUILT

M-1

THE FREEMAN-WHITE ASSOCIATES
ARCHITECTS ENGINEERS
CHARLOTTE, NORTH CAROLINA

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

DES. J.P.M. DR. G.L.R. CHK. G.A.J.
PROJ. MGR. G.A.J. CH. ENGR. G.W.S.
SUBMITTED BY: Benjamin D. Pearce DATE: 5-29-78
FIRM MEMBER — PRINCIPAL
EFD: FP — RVD
HD — DIR RNK
APPROVED — DATE
OFFICER IN CHARGE
APPROVED — DATE
FOR EFD FOR COMMANDER NAVFAC

U.S. MARINE CORPS BASE
CAMP LEJEUNE — NORTH CAROLINA

HQMC PROJECTS 7054 - STRUCT./ELECT./MECH. REPAIRS - BUILDING AS-4108

FIRST FLOOR PLAN - MODULE ONE — AS-4108

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.
F	80091	4036391

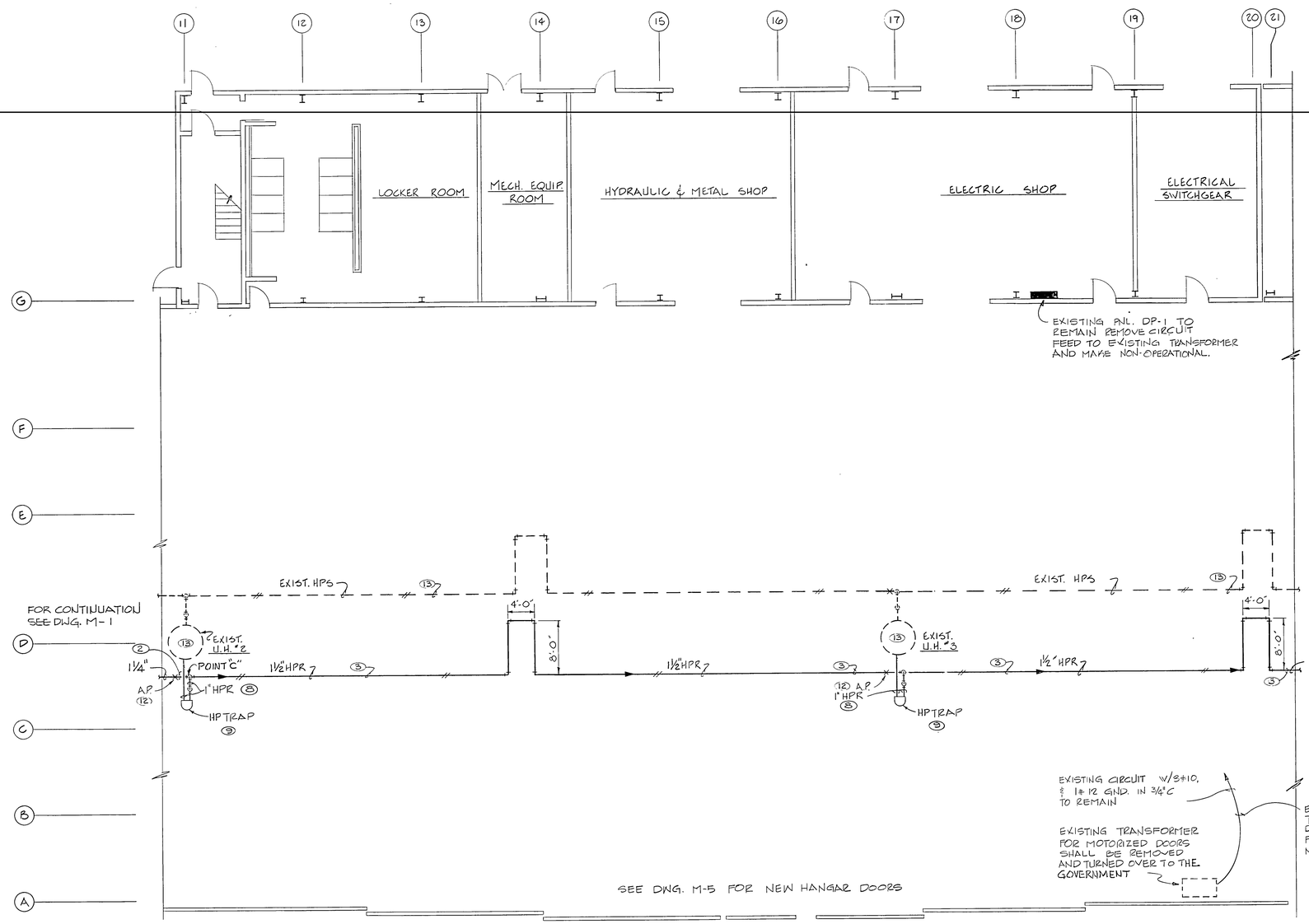
CONSTR. CONTR. NO. N62470-78-B-3013

SCALE AS SHOWN — SPEC. 05-78-3013 — SHEET 5 OF 15

EFD DWG. NO.

NORTH CAROLINA PROFESSIONAL ENGINEER No. 4620 CHARLES WILLIAM SMITH

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



NOTE
1. SEE DWG. M-1 FOR CONSTRUCTION NOTES

FLOOR PLAN – MODULE TWO
SCALE: 1/8" = 1'-0"

GRAPHIC SCALE
1/8" = 1'-0"
1" = 200'-0"
0 10 20 30
0 200 400 600 800

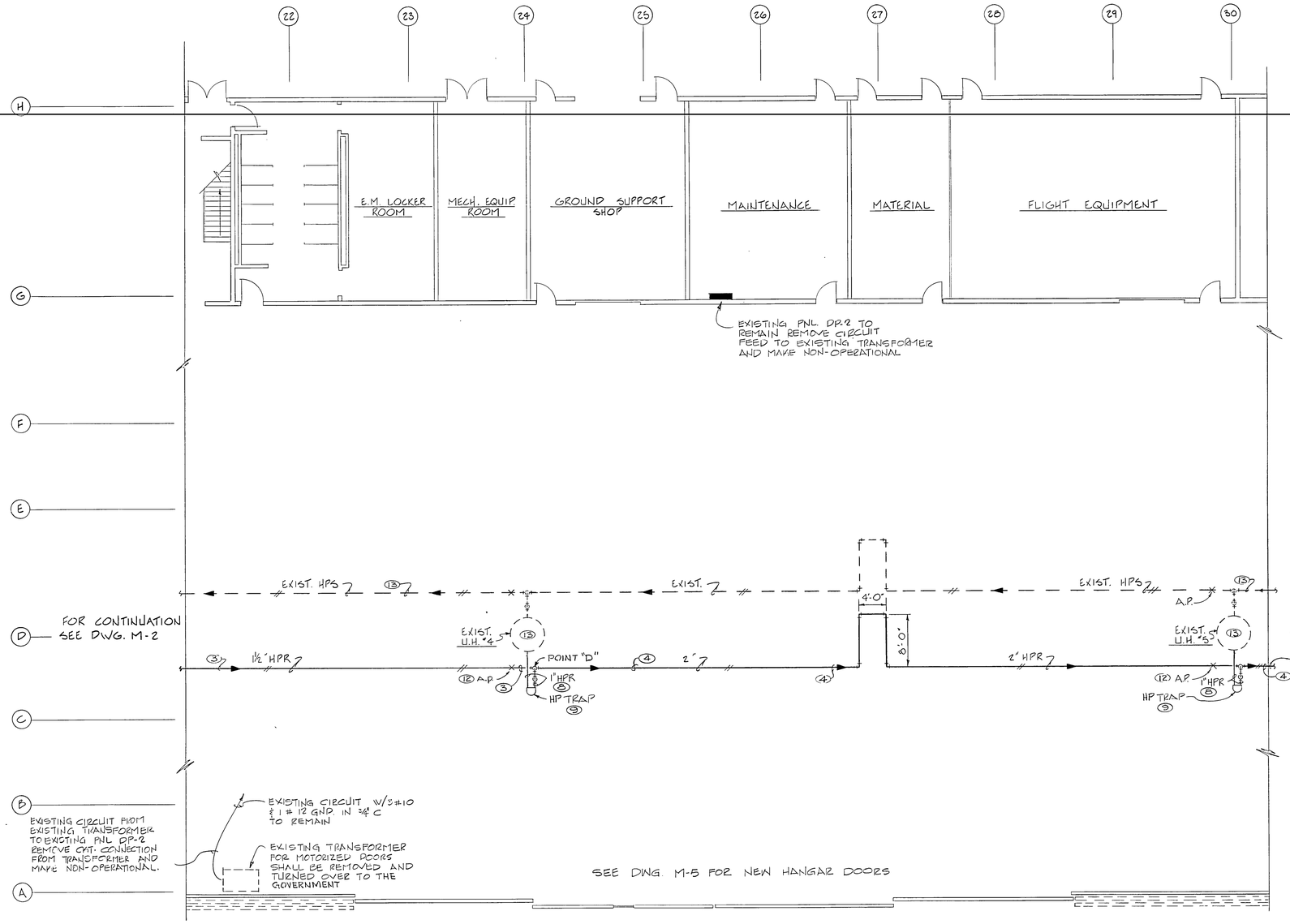
KEY PLAN
SCALE: 1" = 200'-0"

AS BUILT

M-2

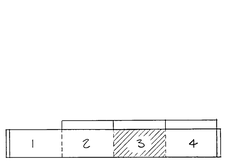
THE FREEMAN-WHITE ASSOCIATES ARCHITECTS ENGINEERS CHARLOTTE, NORTH CAROLINA	DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND ATLANTIC DIVISION NAVAL STATION NORFOLK, VIRGINIA
DES. J.P.M. DR. G.L.R. CHK. G.A.J. PROJ. MGR. G.A.J. CH. ENGR. G.W.S.	U.S. MARINE CORPS BASE CAMP LEJEUNE NORTH CAROLINA
SUBMITTED BY: Reagan W. Pearce DATE: 5-29-78 FIRM MEMBER PRINCIPAL	HQMC PROJECTS 7054 - STRUCT./ELECT./MECH. REPAIRS - BUILDING AS-4108
EFD: FP ____ RVD. ____ HD ____ DIR. RNK	FIRST FLOOR PLAN - MODULE TWO - AS-4108
APPROVED DATE OFFICER IN CHARGE	SIZE F; CODE IDENT NO. 80091; NAVFAC DRAWING NO. 4036392
APPROVED C.A. Jack 8/7/78 FOR EFD FOR COMMANDER NAVFAC	CONSTR. CONTR. NO. N62470-78-B-3013; SCALE AS SHOWN; SPEC. 05-78-3013; SHEET 6 OF 15; EFD DWG. NO.

NORTH CAROLINA PROFESSIONAL No. 4590 ENGINEER CHARLES WILLIAM SCHMIDT



FLOOR PLAN – MODULE THREE
SCALE: 1/8" = 1'-0"

NOTE:
1. SEE DWG. M-1 FOR CONSTRUCTION NOTES



KEY PLAN
SCALE: 1" = 200'-0"

AS BUILT

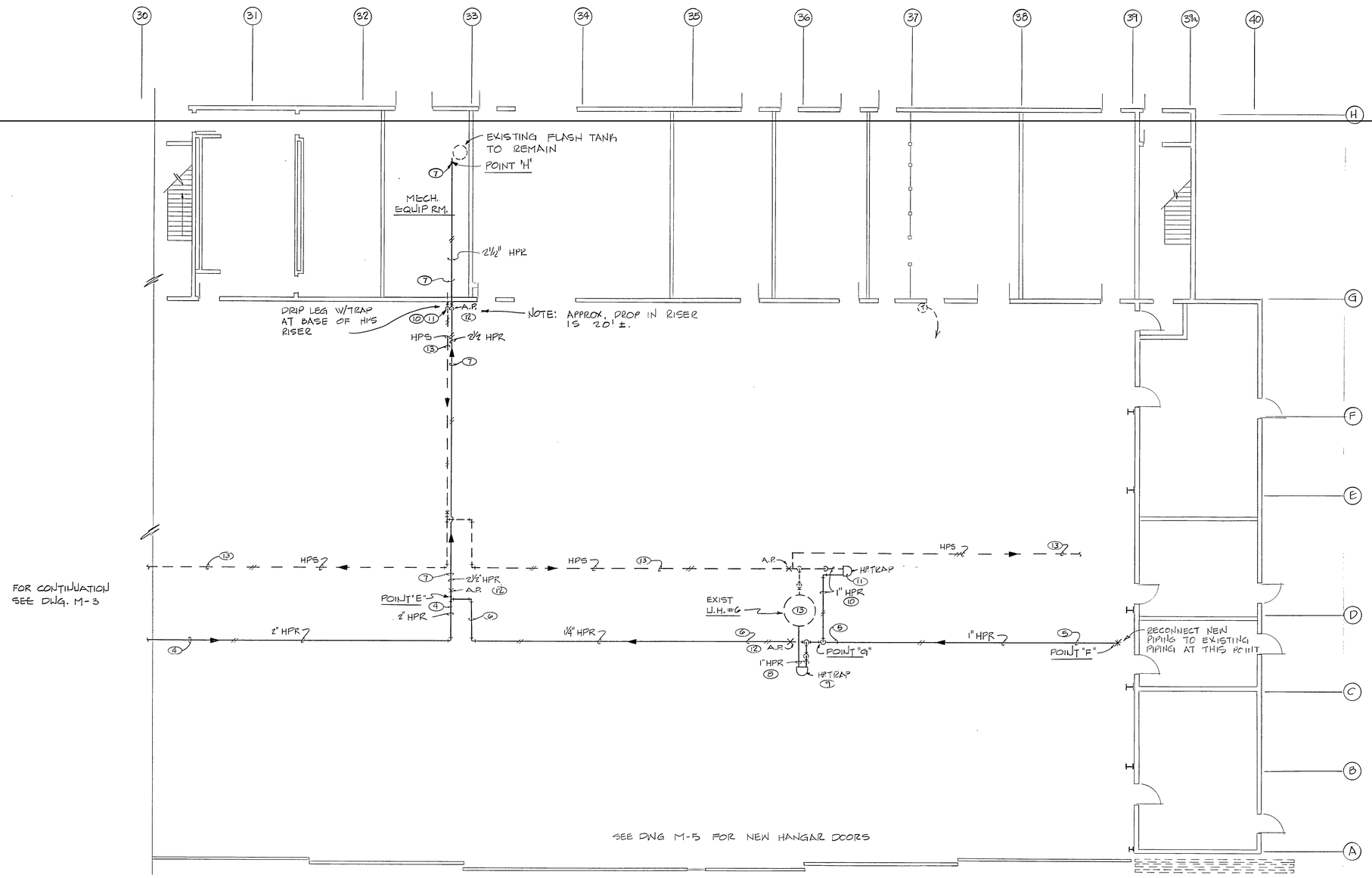
M-3

THE FREEMAN-WHITE ASSOCIATES
ARCHITECTS ENGINEERS
CHARLOTTE, NORTH CAROLINA

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

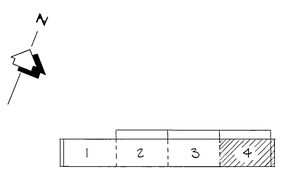
U.S. MARINE CORPS BASE

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVED



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

NOTE
1. SEE DWG. M-1 FOR CONSTRUCTION NOTES



KEY PLAN
SCALE: 1" = 200'-0"

AS BUILT

1/8" = 1'-0"
1" = 200'-0"

GRAPHIC SCALE
0 10 20 30
0 200 400 600 800

M-4

THE FREEMAN-WHITE ASSOCIATES
ARCHITECTS ENGINEERS
CHARLOTTE, NORTH CAROLINA

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

DES. J.P.M. DR. G.L.R. CHK. G.A.J.
PROJ. MGR. G.A.J. CH. ENGR. G.W.S.
SUBMITTED BY: Benjamin M. Pearce DATE: 5-23-78
FIRM MEMBER PRINCIPAL
EFD: FP RVD
HD DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
FOR EFD FOR COMMANDER NAVFAC

U.S. MARINE CORPS BASE
CAMP LEJEUNE NORTH CAROLINA
HQMC PROJECTS 7054 - STRUCT./ELECT./MECH. REPAIRS - BUILDING AS-4108
FIRST FLOOR PLAN - MODULE FOUR - AS-4108

SIZE F | CODE IDENT NO 80091 | NAVFAC DRAWING NO. 4036394
CONSTR. CONTR. NO. N62470-78-B-3013
SCALE AS SHOWN | SPEC. 05-78-3013 | SHEET 8 OF 15
EFD DWG. NO.

NORTH CAROLINA PROFESSIONAL ENGINEER No. 4620 CHARLES WILLIAM SMITH