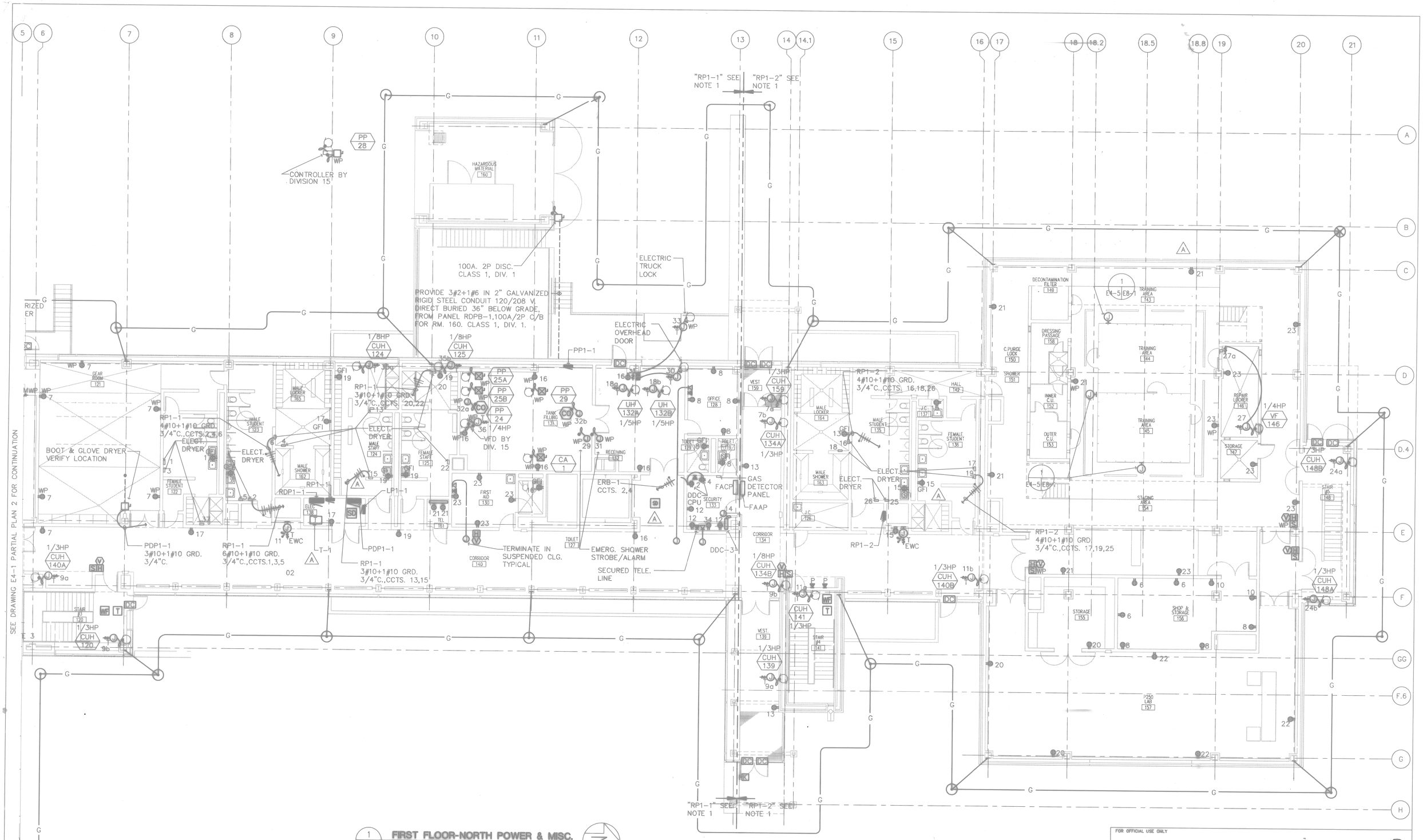
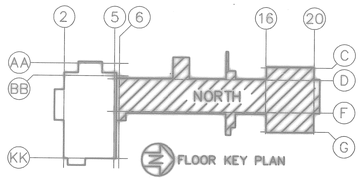


1 E4-5 **FIRST FLOOR-NORTH POWER & MISC.** SCALE: 1/8"= 1'-0"

NOTES: 1. PHANTOM LINE INDICATES ZONE OF PANEL/POWER SOURCE, FOR ELECT. EQUIPMENT REQUIRING 120/208 VOLTS. UNLESS OTHERWISE NOTED.

2. REFER TO MOTOR CONTROL SCHEDULE FOR 480 VOLT 3ø, EQUIPMENT WIRING REQUIREMENTS.

GRAPHIC SCALE
5' 0' 5' 10' 15' 20' 25'
SCALE 1/8" = 1'-0"



FLOOR KEY PLAN

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FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
EFD FOR COMMANDER, NAVFAC

ARCH. & ENGR. SEAL

DEPARTMENT OF THE NAVY NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
FIRST FLOOR-NORTH POWER
MISCELLANEOUS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276637	E4-5

CONSTR CONTR NO. N62467-93-C-1143
SCALE 1/8=1'-0" SPEC 06-93-1143 SHEET 223 OF

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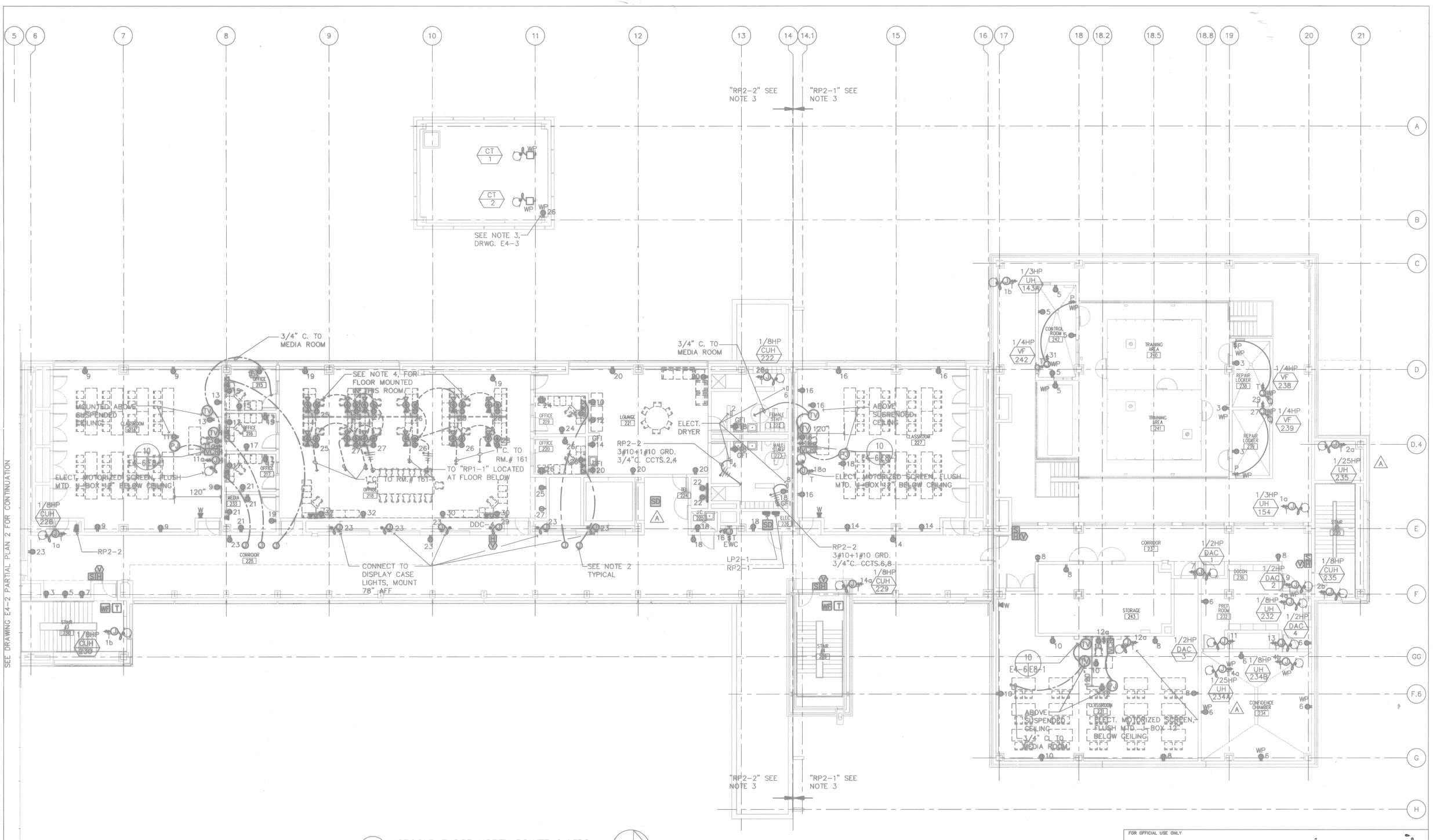


1 SECOND FLOOR-NORTH POWER & MISC.

E4-6 SCALE: 1/8"= 1'-0"

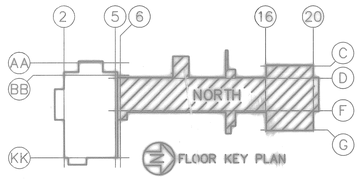
NOTES:

1. CONDUITS FROM CLOSE CIRCUIT T.V. OUTLETS IN CLASSROOMS SHALL BE TERMINATED IN JUNCTION BOX FLUSH MOUNTED IN THE NORTH WALL OF MEDIA ROOM 18" AFF.
2. TERMINATE A 3/4" CONDUIT FOR EACH DATA OUTLET IN JUNCTION BOX ABOVE CORRIDOR CEILING.
3. PHANTOM LINE INDICATES ZONE OF PANEL/POWER SOURCE, FOR ELECT. EQUIPMENT REQUIRING 120/208 VOLT. UNLESS OTHERWISE NOTED.
4. RUN CONDUITS FOR FLOOR OUTLETS ON FIRST FLOOR CEILING. UNLESS OTHERWISE NOTED.
5. REFER TO MOTOR CONTROL SCHEDULE FOR 480 VOLT 3Ø, EQUIPMENT WIRING REQUIREMENTS.

GRAPHIC SCALE

5' 0' 5' 10' 15' 20' 25'

SCALE 1/8" = 1'-0"



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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

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SUPV POPOVIC CH ENGR
SUBMITTED BY DATE
FIRM MEMBER TITLE
EIC SR HO
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
CFD FOR COMMANDER, NAVFAC

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOOL SECOND FLOOR-NORTH POWER AND MISCELLANEOUS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276638	E4-6
SCALE 1/8"=1'-0"		CONSTR CONTR NO. N62467-93-C-1143	
		SPEC 06-93-1143	SHEET 224 OF

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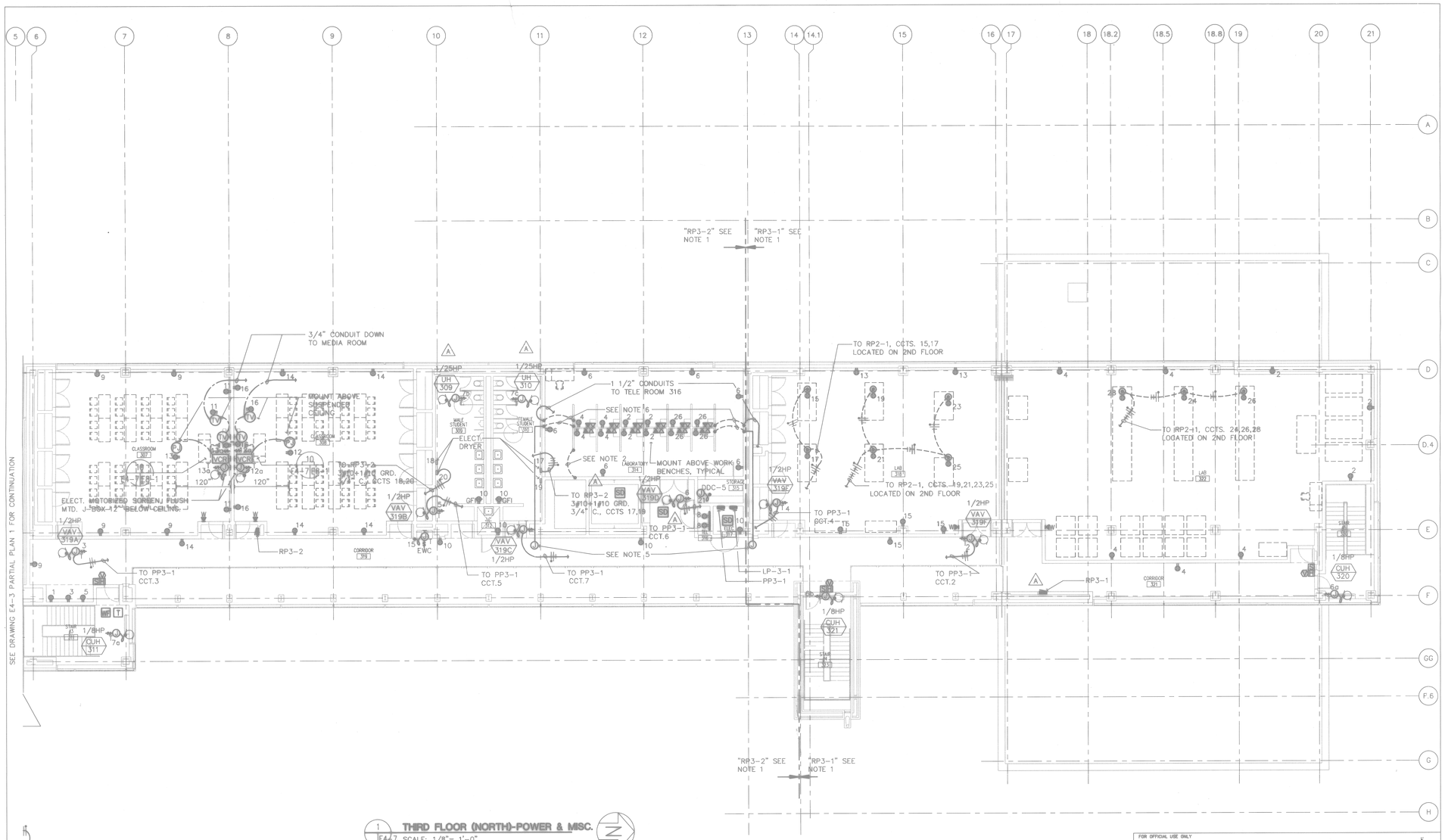


1 THIRD FLOOR (NORTH)-POWER & MISC.

E4-7 SCALE: 1/8"= 1'-0"

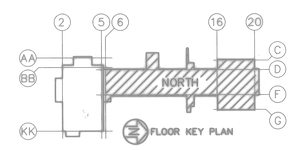
NOTES:

1. PHANTOM LINE INDICATES ZONE OF PANEL/POWER SOURCE, FOR ELECT. EQUIPMENT REQUIRING 120/208 VOLTS. UNLESS OTHERWISE NOTED.
2. RUN CONDUIT DOWN FROM LOW HEIGHT PARTITION INTO SLAB, RUN HORIZONTAL IN SLAB TO WALL, UP TO ABOVE FINISH CEILING AND TO PANEL RP3-2.
3. REFER TO MOTOR CONTROL SCHEDULE FOR 480 VOLT 3ø, EQUIPMENT WIRING REQUIREMENTS.
4. RUN CONDUIT FOR FLOOR MOUNTED RECEPTACLE ON SECOND FLOOR CEILING.
5. TERMINATE 1 1/2" CONDUIT FOR DATA OUTLET IN JUNCTION BOX ABOVE CORRIDOR CEILING.
6. RUN 1 1/2" CONDUIT DOWN FROM LOW HEIGHT PARTITION INTO SLAB, RUN VERTICAL IN SLAB TO WALL, UP TO ABOVE FINISH CEILING.

GRAPHIC SCALE

5' 0' 5' 10' 15' 20' 25'

SCALE 1/8" = 1'-0"



FLOOR KEY PLAN

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SUPV PGPOVIC CH ENGR
SUBMITTED BY DATE
FIRM MEMBER TITLE
EIC SR HO
FPE DO
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
EFD FOR COMMANDER NAVFAC

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
THIRD FLOOR-NORTH POWER AND MISCELLANEOUS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276639	E4-7
SCALE 1/8"=1'-0"		CONSTR CONTR NO. N62467-93-C-1143	
		SPEC 06-93-1143	SHEET 225 OF

SEE DRAWING E4-3 PARTIAL PLAN 1 FOR CONTINUATION

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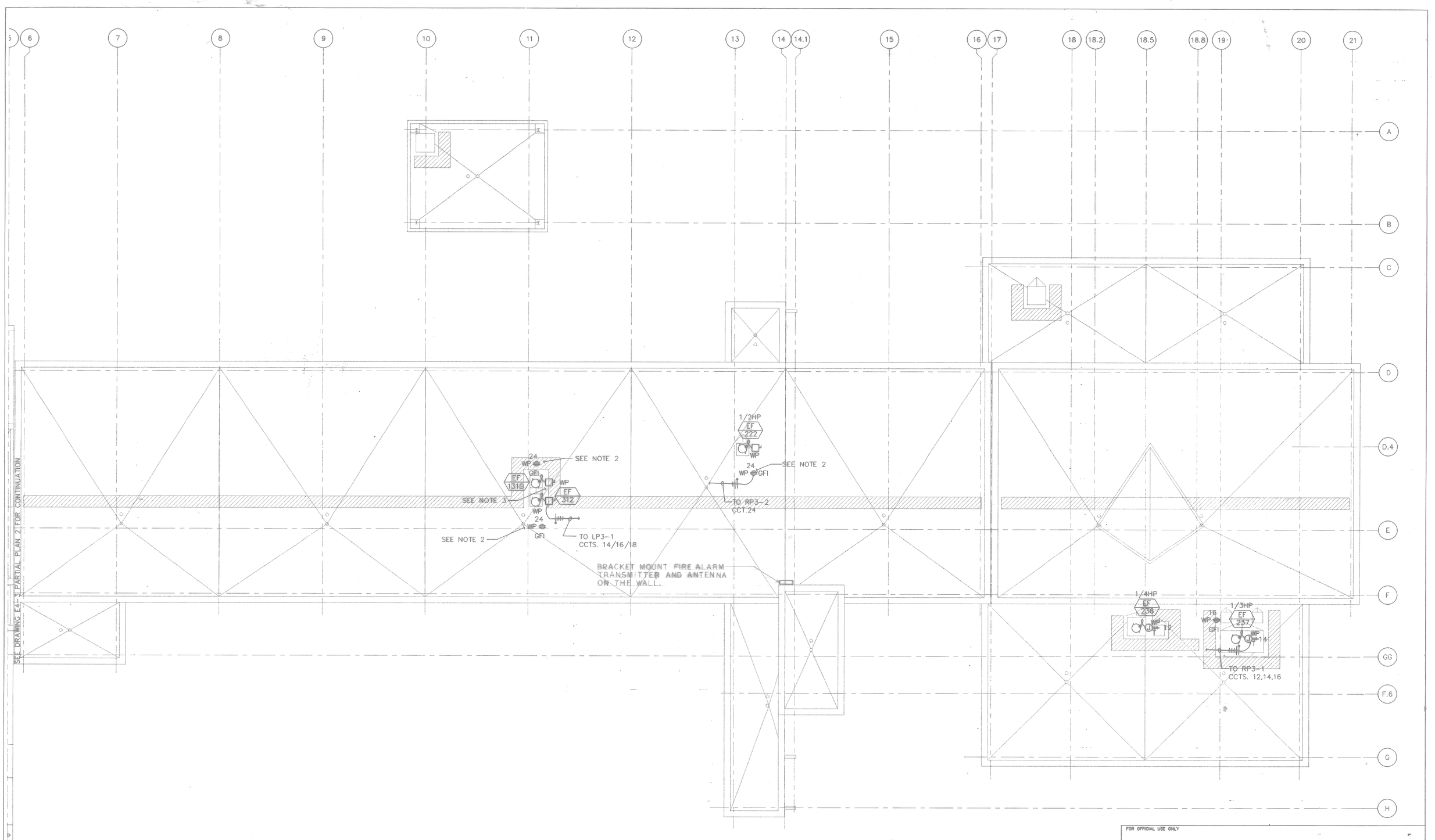
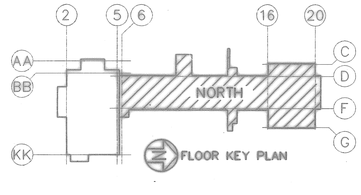


1 ROOF-NORTH POWER AND MISCELLANEOUS

E4-8 SCALE: 1/8"= 1'-0"

NOTES:
1. REFER TO MOTOR CONTROL SCHEDULE FOR 480V., 3ø EQUIPMENT WIRING REQUIREMENTS.
2. MOUNT RECEPTACALES ON ROOF TO NEAREST STRUCTURAL STEEL EQUIPMENT SUPPORT MEMBER.
3. MOUNT ELECTRICAL DEVICES TO STRUCTURAL STEEL OF EQUIPMENT SUPPORT MEMBERS.



FLOOR KEY PLAN

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SOUTHERN DIVISION
CHARLESTON, S.C.

DSGN ANG SR JACQUEZ CHK SEABORG
SUPV POPOVIC CH ENGR
SUBMITTED BY DATE 8-31-94
PRJ MANAGER
EIC SR HD
FPC DIR
APPROVED DATE
OFFICIAL CHARGE
APPROVED DATE 9/12/96
FTD FOR COMMANDER, NAVFAC

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL ROOF-NORTH POWER AND MISCELLANEOUS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276640	E4-8
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 266 OF

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P: TTL-0002 PS Ins=0.0
P: ABWPF2 MS Ins=0.0
P: ABPA0626 PS Ins=0.0
P: ABPA0626 Revised 2/95

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MOTOR CONTROL SCHEDULE

MCC DESIGNATION	EQUIPMENT TAG	EQUIPMENT	HP	KW	VOLTS	PHASE	COMB. MOTOR STARTER WITH CIRCUIT BREAKER NEMA SIZE	COMB. MOTOR STARTER WITH CIRCUIT BREAKER MCP	DISC. SWITCH AT UNIT	CONDUIT AND WIRE SIZE	REMARKS
MCCB-1	SF 1A	SUPPY FAN	50	*	480V.	3	*	–	100A	3#3+1#8G.1-1/4"C.	100A BREAKERS SEE NOTE 2
MCCB-1	SF 1B	SUPPY FAN	50		480V.	3	*	–	100A	3#3+1#8G.1-1/4"C.	100A BREAKERS SEE NOTE 2
MCCB-1	RF 1A	RETURN FAN	20		480V.	3	*	–	60A	3#8+1#10G.1"C.	60A BREAKERS SEE NOTE 2
MCCB-1	RF 1B	RETURN FAN	20		480V.	3	*	–	60A	3#8+1#10G.1"C.	60A BREAKERS SEE NOTE 2
MCCB-1	SF 2	SUPPY FAN	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	SF 3	SUPPY FAN	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	SF 4	SUPPY FAN	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	SF 5	SUPPY FAN	7 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	SF 6	SUPPY FAN	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PPB-1	SF 7	SUPPY FAN	10		480V.	3	*	–	30A	3#12+1#12G.3/4"C.	25A BREAKERS SEE NOTE 2
MCCB-1	EF B06A	EXHAUST FAN	1.5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF B06B	EXHAUST FAN	1.5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF B09	EXHAUST FAN	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF B10A	EXHAUST FAN	1 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF B10B	EXHAUST FAN	1 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF B15	EXHAUST FAN	2		480V.	3	1	✓	30A	2 @ 3#12+1#12G.3/4"C.	2-SPEED,2 WINDING
MCCB-1	EF B16	EXHAUST FAN	3/4		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 17A	EXHAUST FAN	1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 17B	EXHAUST FAN	1		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 121	EXHAUST FAN	1 1/2		480V.	3	1	✓	30A	2 @ 3#12+1#12G.3/4"C.	2-SPEED,2 WINDING
MCCB-1	EF 127	EXHAUST FAN	1 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	RF 6	RETURN FAN	1 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 131A	EXHAUST FAN	2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 131B	EXHAUST FAN	1		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 137	EXHAUST FAN	1		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 222	EXHAUST FAN	1½		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 234A	EXHAUST FAN	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	EF 234B	EXHAUST FAN	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PP2-1	EF 10	EXHAUST FAN	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PP2-1	HTEF 1	HIGH TEMP. EXHAUST FAN	50		480V.	3	*	✓	100A	3#3+1#8G.1-1/4"C.	
PP2-1	HTEF 2	HIGH TEMP. EXHAUST FAN	50		480V.	3	*	✓	100A	3#3+1#8G.1-1/4"C.	
PP2-1	HTEF 3	HIGH TEMP. EXHAUST FAN	50		480V.	3	*	✓	100A	3#3+1#8G.1-1/4"C.	
PP2-1	HTEF 4	HIGH TEMP. EXHAUST FAN	50		480V.	3	*	✓	100A	3#3+1#8G.1-1/4"C.	
EDB	HTEF 5	HIGH TEMP. EXHAUST FAN	2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
EDB	HTEF 6	HIGH TEMP. EXHAUST FAN	2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
EDB	HTEF 7	HIGH TEMP. EXHAUST FAN	3/4		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PP2-1	HTEF 8	HIGH TEMP. EXHAUST FAN	30		480V.	3	*	–	60A	3#6+1#10G.1"C.	80A BREAKERS
MCC1-1	HVU 1	HEATING AND VENT'G UNIT	20		480V.	3	2	✓	60A	2 @ 3#8+1#10G.1"C.	2-SPEED,2 WINDING
MCC1-1	HVU 2	HEATING AND VENT'G UNIT	20		480V.	3	2	✓	60A	2 @ 3#8+1#10G.1"C.	2-SPEED,2 WINDING
MCC1-1	HVU 3	HEATING AND VENT'G UNIT	15		480V.	3	2	✓	30A	2 @ 3#10+1#10G.3/4"C.	2-SPEED,2 WINDING
MCC1-1	HVU 4	HEATING AND VENT'G UNIT	20		480V.	3	2	✓	60A	2 @ 3#8+1#10G.1"C.	2-SPEED,2 WINDING
MCC1-1	HVU 5	HEATING AND VENT'G UNIT	15		480V.	3	2	✓	30A	2 @ 3#10+1#10G.3/4"C.	2-SPEED,2 WINDING
PP2-1	HVU 6	HEATING AND VENT'G UNIT	40		480V.	3	3	✓	100A	2 @ 3#4+1#8G.1-1/4"C.	2-SPEED,2 WINDING
MCC1-1	HVU 7	HEATING AND VENT'G UNIT	10		480V.	3	1	✓	30A	2 @ 3#12+1#12G.3/4"C.	2-SPEED,2 WINDING
EDB	HTEF 9	HIGH TEMP. EXHAUST FAN	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	HP 1	HEAT PUMP	94AMP		480V.	3	DIV.15	200A C\B	200A	3#1/0+1#6G.2"C.	PACKAGE UNIT
MCCB-1	HP 2	HEAT PUMP	52AMP		480V.	3	DIV.15	100A C\B	100A	3#4+1#8G.1-1/4"C.	PACKAGE UNIT
MCCB-1 PPB-1	CT 1	COOLING TOWER	5HP+2@ 5KW.HTR		480V.	3	1	✓	30A-FAN 30A-HTR.	3#12+1#12G.3/4"C. 3#12+1#12G.3/4"C.	TOWER FAN TOWER HTR.
MCCB-1 PPB-1	CT 2	COOLING TOWER	5HP+2@ 5KW.HTR		480V.	3	1	✓	30A-FAN 30A-HTR.	3#12+1#12G.3/4"C. 3#12+1#12G.3/4"C.	TOWER FAN TOWER HTR.

* VARIABLE FREQUENCY DRIVE BY ELECTRICAL CONTRACTOR.

MOTOR CONTROL SCHEDULE

MCC DESIGNATION	EQUIPMENT TAG	EQUIPMENT	HP	KW	VOLTS	PHASE	COMB. MOTOR STARTER WITH CIRCUIT BREAKER NEMA SIZE	COMB. MOTOR STARTER WITH CIRCUIT BREAKER MCP	DISC. SWITCH AT UNIT	CONDUIT AND WIRE SIZE	REMARKS
MCCB-1	CHP 1	CHILLED WATER PUMP	7 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	CHP 2	CHILLED WATER PUMP	7 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	CTP 1	COOLING TOWER PUMP	10		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	CTP 2	COOLING TOWER PUMP	10		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	HWP 1	HOT WATER PUMP	15		480V.	3	2	✓	30A	3#10+1#10G.3/4"C.	
MCCB-1	HWP 2	HOT WATER PUMP	15		480V.	3	2	✓	30A	3#10+1#10G.3/4"C.	
MCCB-1	HWP 3	HOT WATER PUMP	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	HWP 4	HOT WATER PUMP	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	HWP 5	HOT WATER PUMP	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	HWP 6	HOT WATER PUMP	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
SWBD OTF	CH 1	CHILLER	100KW		480V.	3	–	–	200A	3#3/0+1#4G.2"C.	
SWBD OTF	CH 2	CHILLER	100KW		480V.	3	–	–	200A	3#3/0+1#4G.2"C.	
PP2-1	AC 1	AIR CONDITIONING UNIT	1.5HP+1@ 11KW.HTR		480V.	3			30A	3#12+1#12G.3/4"C.	
PP2-1	AC 2	AIR CONDITIONING UNIT	1.5HP+1@ 11KW.HTR		480V.	3			30A	3#12+1#12G.3/4"C.	
MCCB-1	CP 1	CONDENSATE PUMP	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCCB-1	CP 2	CONDENSATE PUMP	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PPB-1	EUH B06	ELEC. UNIT HTR.	5		480V.	3	–	–	30A	3#12+1#12G.3/4"C.	
PDP1-1	HPD 1	HEAT PUMP DRY COOLER	10.6AMPS		480V.	3	–	–	30A	3#12+1#12G.3/4"C.	PACKAGE UNIT
PDP1-1	HPD 2	HEAT PUMP DRY COOLER	5.3AMPS		480V.	3	–	–	30A	3#12+1#12G.3/4"C.	PACKAGE UNIT
MCCB-1	EF 312	EXHAUST FAN	1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PP2-1	EF 8	EXHAUST FAN	3/4		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PP2-1	EF 9	EXHAUST FAN	3/4		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PP2-1	EF 10	EXHAUST FAN	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCC1-1	EF 2	EXHAUST FAN	3/4		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCC1-1	EF 3	EXHAUST FAN	3/4		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCC1-1	EF 4	EXHAUST FAN	3/4		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCC1-1	EF 5	EXHAUST FAN	3/4		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCC1-1	EF 14	EXHAUST FAN	1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
MCC1-1	EF 12	EXHAUST FAN	1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	

NOTES: 1. ALL STARTERS SHALL HAVE A GREEN "RUN" PILOT LIGHT TO INDICATE MOTOR RUNNING.
2. LOCATED OUTSIDE OF MCC. SEE PLAN FOR LOCATIONS.

ARCH. & ENGR. SEAL

EDDY K. ANG 30642 REGISTERED PROFESSIONAL ENGINEER ILLINOIS

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RECORD DRAWING DATE 06/08/98

DATE 07-31-97 ISSUE AS-BUILT, NO CORRECTIONS BY ISSUE

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DSGN ANG DR JACQUEZ CHK SEABORG
SUPV POPOVIC CH ENGR
SUBMITTED BY DATE 8-31-94
CPM MEMBER ELC
ELC BR HVAC
FPE DR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE 9/12/94
CPD FOR COMMANDER, NAVFAC

DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL

MOTOR CONTROL SCHEDULE

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276641	E5-1

CONSTR CONTR NO. N62467-93-C-1143

SCALE NONE — SPEC 06-93-1143 — SHEET 227 OF

P: TB-BLDG PS Xrefs=0,0
P: TB-TITLE PS Xrefs=0,0
P: JEPA2501 PS Xrefs=0,0

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MOTOR CONTROL SCHEDULE

MCC DESIGNATION	EQUIPMENT TAG	EQUIPMENT	HP	KW	VOLTS	PHASE	COMB. MOTOR STARTER WITH CIRCUIT BREAKER NEMA SIZE	COMB. MOTOR STARTER WITH CIRCUIT BREAKER MCP	DISC. SWITCH AT UNIT	CONDUIT AND WIRE SIZE	REMARKS
PPB-3	PP 1	PROCESS WATER SYSTEM #1-DCT	100		480V.	3	**	–	200A	3#2/0+1#6G.2"C.	
PPB-3	PP 2	PROCESS WATER SYSTEM #1-DCT	100		480V.	3	**	–	200A	3#2/0+1#6G.2"C.	
PPB-3	PP 3	PROCESS WATER SYSTEM #2-FFT	40		480V.	3	**	–	100A	3#4+1#8G.11/4"C.	
PPB-3	PP 4	PROCESS WATER SYSTEM #2-FFT	40		480V.	3	**	–	100A	3#4+1#8G.11/4"C.	
PPB-2	PP 5	PROCESS WATER#1 WASTE-TANK #1	2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PPB-2	PP 6	PROCESS WATER#1 RECIRC.-TANK #1	15		480V.	3	2	✓	30A	3#10+1#10G.3/4"C.	
PPB-2	PP 7	PROCESS WATER#1 RECIRC.-TANK #2	15		480V.	3	2	✓	30A	3#10+1#10G.3/4"C.	
PPB-2	PP 8	PROCESS WATER#1 WASTE-TANK #2	2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PPB-3	PP 9	PROCESS WATER SYS.#2-RECIRC.	7 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PPB-3	PP 10	PROCESS WATER SYS.#2-RECIRC.	7 1/2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PPB-3	PP 11	PROCESS WATER SYS.#2-WASTE	2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
EDB	PP 17	SEWAGE EJECTOR	2@1-1/2		480V.	3	–	–	30A	3#10+1#10G.3/4"C.	
EDB	PP 18	SUMP PUMP	2@3		480V.	3	–	–	30A	3#10+1#10G.3/4"C.	
PPB-3	PP 19	DOMESTIC WTR. BOOSTER	1@7.5HP 2@15HP	A	480V.	3	–	–	60A	3#4+1#10G.11/4"C.	02 A
PPB-3	PP 22	AFFF CONCENTRATE	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	• •
PPB-3	PP 23	AFFF CONCENTRATE	5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	• •
PPB-1	PP 16	OILY WATER WASTE SUMP PUMP	2@5		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	• •
PP1-1	PP 25A	AFFF TRANSFER PUMP	2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	• •
PP1-1	PP 25B	AFFF TRANSFER PUMP	2		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	• •
PP2-1	PP 26	AFFF STATION PUMP	10		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	• •
PP2-1	PP 27	AFFF STATION PUMP	10		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	• •
PP1-1	PP 28	CO2 REFRIG. PUMP	3		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PP1-1	PP 29	CO2 REFILL PUMP	10		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PP1-1	CA 1	AIR COOLED AIR COMPRESSOR	10		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PPB-2	CA 2	AIR COOLED AIR COMPRESSOR	10		480V.	3	1	✓	30A	3#12+1#12G.3/4"C.	
PPB-1		ELEVATOR	40		480V.	3	–	–	100A	3#4+1#8G.1-1/4"C.	

** VARIABLE FREQUENCY DRIVE TO BE FURNISHED UNDER DIV. 15, INSTALLATION BY ELECTRICAL CONTRACTOR.

• FOAM PUMP SHALL HAVE START-STOP CONTROL IN LIEU OF HAND OFF AUTO SWITCH STARTERS.

• • STARTERS SHALL HAVE A GREEN "RUN" PILOT LIGHT TO INDICATE MOTOR RUNNING.

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DATE 06/08/98

ISD 05/05/96

A DATE 07-31-97 ISSUE CORRECTED TO AS-BUILT BY LTN INITIAL D.D.W.

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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

DSGN ANG DR JACQUEZ CHK SEABORG
SUPV POPOVIC CH ENGR
SUBMITTED BY DATE
FIRM MEMBER TITLE
EIC DR HD
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
EFD FOR COMMANDER, NAVFAC

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL

MOTOR CONTROL SCHEDULE

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276642	E5-2

CONSTR CONTR NO. N62467-93-C-1143
SCALE NONE — SPEC 06-93-1143 — SHEET 228 OF

ARCH. & ENGR. SEAL

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BLDG.: DCS
DISTRIBUTION PANEL SCHEDULE

PANEL DESIGNATION	DESCRIPTION OF EQUIPMENT	C/B TRIP AMP SIZE	REMARKS
PDPB-1 200A, 277/480V, 3ø, 4W., 200A. MLO WITH GROUND BUS	T-4/RDPB-1	70A/3P	
	LPB-1	100A/3P	
	SPARE	100A/3P	
	SPARE	20A/3P	
	SPARE	60A/3P	
PPB-1 400A, 480V, 3ø, 3W., 300A MLO WITH GROUND BUS	SF 7	30A/3P	
	CT 1 HTG.	20A/3P	
	CT 2 HTG.	20A/3P	
	EUH B06 5KW	20A/3P	
	ELEVATOR 40HP	100A/3P	
	PROPANE YARD	40A/3P	
	DRYER	50A/3P	
	DRYER	50A/3P	
	DRYER	50A/3P	
	SPARE	60A/3P	
	SPARE	100A/3P	
	PP 16	20A/3P	
PPB-2 200A, 480V, 3ø 3W., 200A MAIN CIRCUIT BREAKER GROUND BUS NEMA 4 ENCLOSURE	PP 5	20A/3P	
	PP 6	40A/3P	
	PP 7	40A/3P	
	PP 8	20A/3P	
	SPARE	40A/3P	
	SPARE	20A/3P	
	SPARE	20A/3P	
	CA 2	30A/3P	
PPB-3 600A, 480V, 3ø, 3W, 600A. MAIN CIRCUIT BREAKER WITH GROUND BUS NEMA 4 ENCLOSURE	PP 1 (A)	350A/3P	
	PP 2		
	PP 3 (A)	150A/3P	
	PP 4		
	PP 9	20A/3P	
	PP 10	20A/3P	
	PP 11	20A/3P	
	PP 19	50A/3P	
	PP 22	20A/3P	
(A)	PP 23	20A/3P	
	SPARE	20A/3P	
	SPARE	20A/3P	

BLDG.: DCS
DISTRIBUTION PANEL SCHEDULE

PANEL DESIGNATION	DESCRIPTION OF EQUIPMENT	C/B TRIP AMP SIZE	REMARKS
PDP1-1 400A, 277/480V, 3ø 4W., 400A MAIN CIRCUIT BREAKER WITH GROUND BUS	LP1-1	100A/3P	
	LP2-1	100A/3P	
	LP3-1	100A/3P	
	PP3-1	100A/3P	
	BOOT/GLOVE DRYER	30A/3P	15KW
	SPARE	100A/3P	
	HPD 1	20A/3P	
	HPD 2	20A/3P	
PDP1-2 400A, 277/480V, 3ø 4W., 300A MAIN CIRCUIT BREAKER WITH GROUND BUS	LP1-2	60A/3P	
	–	–	
	T-2/RDP1-2	110A/3P	
	T-3	150A/3P	
	SPARE	100A/3P	
	SPARE	60A/3P	
	SPARE	20A/3P	
RDP1-1 600A, 120/208V, 3ø 4W., 500A MAIN CIRCUIT BREAKER WITH GROUND BUS	RP1-1	150A/3P	
	RP1-2	150A/3P	
	RP2-1	100A/3P	
	RP2-2	100A/3P	
	RP3-1	100A/3P	
	RP3-2	100A/3P	
	SPARE	100A/3P	
	SPARE	60A/3P	
RDP1-2 400A, 120/208V, 3ø 4W., 250A MAIN CIRCUIT BREAKER WITH GROUND BUS	RP1-3	150A/3P	
	SPARE	100A/3P	
	RP2-3	150A/3P	
	SPARE	60A/3P	
RDPB-1 200A, 120/208V, 3ø 4W., 150A MAIN CIRCUIT BREAKER WITH GROUND BUS	RPB-1	100A/3P	
	RPB-2	100A/3P	
	SPARE	60A/3P	
	SPARE	20A/3P	
	HAZADOUS MATERIAL	100A/2P	

NOTE: ALL POWER AND DISTRIBUTION PANELS SHALL HAVE SPACES FOR FUTURE LOADS.

BLDG.: DCS
DISTRIBUTION PANEL SCHEDULE

PANEL DESIGNATION	DESCRIPTION OF EQUIPMENT	C/B TRIP AMP SIZE	REMARKS
PP1-1 200A, 480V, 3ø 4W., 200A MAIN CIRCUIT BREAKER WITH GROUND BUS	PP 22	20A/3P	
	PP 28	20A/3P	
	PP 29	30A/3P	
	PP 23	20A/3P	
	PP 25A	20A/3P	
	PP 25B	20A/3P	
	CA 1	30A/3P	
	SPARE	20A/3P	
	SPARE	30A/3P	
(A)	SPARE	20A/3P	
(A)	SPARE	30A/3P	
PP2-1 600A,277/480V, 3ø, 4W,600A, MAIN CIRCUIT BREAKER WITH GROUND BUS	HTEF 1	110A/3P	
	HTEF 2	100A/3P	
	AC 1	30A/3P	
	AC 2	30A/3P	
	HTEF 3	100A/3P	
	HTEF 4	100A/3P	
	HVU 6	90A/3P	
	PP 26	30A/3P	
	PP 27	30A/3P	
	EF 10	20A/3P	
	EF 9	20A/3P	
	EF 8	20A/3P	
(A)	EF 5	20A/3P	
	HTEF 8	80A/3P	
	LTG. CIRCUITS	7@20A/1P	
	SPARE	100A/3P	
	SPARE	60A/3P	
(A)	SPARE	4@20A/3P	

BLDG.: DCS
DISTRIBUTION PANEL SCHEDULE

PANEL DESIGNATION	DESCRIPTION OF EQUIPMENT	C/B TRIP AMP SIZE	REMARKS
EDB 100A, 277/480V, 3ø 4W., 100A MAIN CIRCUIT BREAKER WITH GROUND BUS	SPARE	20A/3P	
	TE-1	25A/3P	
	–	–	
	–	–	
	–	–	
	–	–	
	HTEF 5	20A/3P	
	HTEF 6	20A/3P	
	HTEF 7	20A/3P	
	HTEF 9	20A/3P	
	PP 17	30A/3P	
(A)	PP 18	30A/3P	

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SDD 05/26/98

A DATE 07-31-97 ISSUE CORRECTED TO AS-BUILT BY LTN INITIAL W.A.W.

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549 West Randolph Street
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DEPARTMENT OF THE NAVY — NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

DSGN ANG DR JACQUEZ CHK SEABORG
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EFD FOR COMMANDER, NAVFAC

ARCH. & ENGR. SEAL

NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL

PANEL SCHEDULES

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276643	E6-1
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE NONE		SPEC 06-93-1143	SHEET 229 OF

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LPB-1

SERVICE: 480Y/277V.,3ø
MAINS: 100A.MAIN C/B
CONN. WATTS: PHASE A: 7320 PHASE B: 6520 PHASE C: 3480
MOUNTING: RECESSED TOTAL WATTS: 17320

CIRCUIT USE	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	CIRCUIT USE
LTG RM# B07,B06,B17	3420			20A/1P	1	2	20A/1P	3200			LTG RM# B09,B19,B15,B10
LTG RM# B12,B11, & STAIR 2&4		3170		20A/1P	3	4	20A/1P		3350		LTG RM# B16
EMERG. LTS.			500	20A/1P	5	6	20A/1P			2980	LTG RM# B14,B16
EXIT LTS.	400			20A/1P	7	8	20A/1P	300			OUTSIDE POLE LIGHTS
SPARE				20A/1P	9	10	20A/1P				SPARE
SPARE				20A/1P	11	12	20A/1P				SPARE
SPARE				20A/1P	13	14	20A/1P				SPARE
SPARE				20A/1P	15	16	20A/1P				SPARE
SPARE				20A/1P	17	18	20A/1P				SPARE
SPARE				20A/1P	19	20	20A/1P				SPARE
SPARE				20A/1P	21	22	20A/1P				SPARE
SPARE				20A/1P	23	24	20A/1P				SPARE
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

LP1-1

SERVICE: 480Y/277V.,3ø
MAINS: 100A.MAIN C/B
CONN. WATTS: PHASE A: 13415 PHASE B: 6560 PHASE C: 9595
MOUNTING: SURFACE TOTAL WATTS: 29570

CIRCUIT USE	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	CIRCUIT USE
LTG RM#121,122	2170			20A/1P	1	2	20A/1P	1900			LTG RM# 154,155,156
LTG RM#123,165,162,138,121,125,161		1820		20A/1P	3	4	20A/1P		2240		LTG RM# 157
LTG RM#140			4190	20A/1P	5	6	20A/1P			3055	LTG RM#126,163,164,135,137,136,140
LTG RM#130,131,132,119,128,129,127,133	2985			20A/1P	7	8	20A/1P	2660			LTG RM#140,134,159,139
EMERG. LTS		1500		20A/1P	9	10	20A/1P		1000		QUTSIDE LIGHTING
EXIT LTS.			1350	20A/1P	11	12	20A/1P			1000	QUTSIDE LIGHTING
SPARE				20A/1P	13	14	20A/1P	3700			LTG RM#154,149,158,152,153,147
SPARE				20A/1P	15	16	20A/1P				SPARE
SPARE				20A/1P	17	18	20A/1P				SPARE
SPARE				20A/1P	19	20	20A/1P				SPARE
SPARE				20A/1P	21	22	20A/1P				SPARE
SPARE				20A/1P	23	24	20A/1P				SPARE
SPARE				20A/1P	25	26	20A/1P				SPARE
SPARE				20A/1P	27	28	20A/1P				SPARE
POWER LOSS RELAY			100	20A/1P	29	30	20A/1P				SPARE
					31	32					
					33	34					
					35	36					
					37	38					
						40					
					41	42					

LP2-1

SERVICE: 480Y/277V.,3ø
MAINS: 100A.MAIN C/B
CONN. WATTS: PHASE A: 7160 PHASE B: 11340 PHASE C: 7450
MOUNTING: RECESSED TOTAL WATTS: 25950

CIRCUIT USE	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	CIRCUIT USE
LTG RM#214	3040			20A/1P	1	2	20A/1P				SPARE
LTG RM#218		3920		20A/1P	3	4	20A/1P		3315		LTG RM#231
LTG RM#215,216,217,233,219,220,221			2950	20A/1P	5	6	20A/1P			3300	LTG RM#232,236,237,243
LTG RM#222,223,226,224,225	1080			20A/1P	7	8	20A/1P	3040			LTG RM#227
LTG RM#228		3305		20A/1P	9	10	20A/1P		800		EMERG LTS
LTG RM#242,238,239			900	20A/1P	11	12	20A/1P			300	EXIT LTS
SPARE				20A/1P	13	14	20A/1P				SPARE
SPARE				20A/1P	15	16	20A/1P				SPARE
SPARE				20A/1P	17	18	20A/1P				SPARE
SPARE				20A/1P	19	20	20A/1P				SPARE
SPARE				20A/1P	21	22	20A/1P				SPARE
SPARE				20A/1P	23	24	20A/1P				SPARE
SPARE				20A/1P	25	26	20A/1P				SPARE
SPARE				20A/1P	27	28	20A/1P				SPARE
SPARE				20A/1P	29	30	20A/1P				SPARE
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

LP1-2

SERVICE: 480Y/277V.,3ø
MAINS: 60A.MAIN C/B
CONN. WATTS: PHASE A: 3250 PHASE B: 3300 PHASE C: 900
MOUNTING: SURFACE TOTAL WATTS: 7450

CIRCUIT USE	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	CIRCUIT USE
LTG RM#101	2800			20A/1P	1	2	20A/1P				SPARE
LTG RM#102,104,107,113		1800		20A/1P	3	4	20A/1P				SPARE
EMERG. LTS			800	20A/1P	5	6	20A/1P				SPARE
EXIT LTS	450			20A/1P	7	8	20A/1P				SPARE
LTG RM# STAIRS & CORR.		1500		20A/1P	9	10	20A/1P				SPARE
SPARE				20A/1P	11	12	20A/1P				SPARE
SPARE				20A/1P	13	14	20A/1P				SPARE
SPARE				20A/1P	15	16	20A/1P				SPARE
SPARE				20A/1P	17	18	20A/1P				SPARE
SPARE				20A/1P	19	20	20A/1P				SPARE
SPARE				20A/1P	21	22	20A/1P				SPARE
POWER LOSS RELAY			100	20A/1P	23	24	20A/1P				SPARE
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

LP3-1

SERVICE: 480Y/277V.,3ø
MAINS: 100A.MAIN C/B
CONN. WATTS: PHASE A: 13220 PHASE B: 8240 PHASE C: 7930
MOUNTING: SURFACE TOTAL WATTS: 29390

CIRCUIT USE	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	CIRCUIT USE
LTG RM#318	3360			20A/1P	1	2	20A/1P	3170			LTG RM#307
LTG RM#322		3220		20A/1P	3	4	20A/1P		3170		LTG RM#308
LTG RM#322			3220	20A/1P	5	6	20A/1P			910	LTG RM#309,310,312
LTG RM#319,321	3800			20A/1P	7	8	20A/1P	2590			LTG RM#314,315,316,317
LTG RM#319,321		500		20A/1P	9	10	20A/1P		1050		EMERG LTS
LTG RM#319			3000	20A/1P	11	12	20A/1P			500	EXIT LTS
SPARE				20A/1P	13	14	20A/3P	300			EF-312
SPARE				20A/1P	15	16	20A/3P		300		EF-312
SPARE				20A/1P	17	18	20A/3P			300	EF-312
SPARE				20A/1P	19	20	20A/1P				SPARE
SPARE				20A/1P	21	22	20A/1P				SPARE
SPARE				20A/1P	23	24	20A/1P				SPARE
SPARE				20A/1P	25	26	20A/1P				SPARE
SPARE				20A/1P	27	28	20A/1P				SPARE
SPARE				20A/1P	29	30	20A/1P				SPARE
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

ERB-1

SERVICE: 208Y/120V.,3ø,4W
MAINS: 30A.MAIN C/B
CONN. WATTS: PHASE A: 3000 PHASE B: 1000 PHASE C: 1000
MOUNTING: SURFACE TOTAL WATTS: 5000

CIRCUIT USE	PHASE A	PHASE B	PHASE C	TRIP CAP.	CCT No.	CCT No.	TRIP CAP.	PHASE A	PHASE B	PHASE C	CIRCUIT USE
FACP	2000			30A/1P	1	2	20A/1P	500			DDC CPU
SECURITY PANEL		500		20A/1P	3	4	20A/1P		500		DDC CPU
FIRE ALARM RADIO TRANSMITTED			1000	20A/1P	5	6	20A/1P				SHUNT TRIP
GAS DETECTION PANEL	500			30A/1P	7	8	20A/1P				SPARE
SPARE				30A/1P	9	10	20A/1P				SPARE
SPARE				20A/1P	11	12	20A/1P				SPARE
					13	14					
					15	16					
					17	18					
					19	20					
					21	22					
					23	24					
					25	26					
					27	28					
					29	30					
					31	32					
					33	34					
					35	36					
					37	38					
					39	40					
					41	42					

A

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RECORD DRAWING
DATE 06/08/98

DAQ 05/26/98

A DATE 07-31-97 ISSUE CORRECTED TO AS-BUILT BY LTW INITIAL

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549 West Randolph Street
Chicago, IL 60661
Established in 1948
A Leader in Joint A/E Associates, Inc. Company
A Joint A/E Associate Architects Engineers Planners, Inc.

DEPARTMENT OF THE NAVY
NAVAL FACILITIES ENGINEERING COMMAND
SOUTHERN DIVISION
CHARLESTON, S.C.

DSGN ANG DR JACQUEZ CHK SEABORG
SUPV POPOVIC CH ENGR
SUBMITTED BY DATE
FIRM MEMBER TITLE
EIC BR HD
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE
EFD FOR COMMANDER NAVFAC

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
PANEL SCHEDULES

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
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