FIRE PROTECTION HYDRAULIC DATA

AS ZONE	AREA SERVED	OCCUPANCY HAZARD (PER MIL-HDBK-1008A)	ZONE AREA (±SQ. FT)	DESIGN AREA (SQ. FT)	DENSITY (GPM/SQ. FT.)	MAX. AREA PER HEAD (SQ. FT)	REMARKS
DCS/1	DCS BUILDING BASEMENT SUPPORT	ORDINARY HAZARD GROUP 2	9550	3000	0.20	130	
DCS/2	DCS BUILDING BASEMENT DCT	ORDINARY HAZARD GROUP 1	7500	3000	0.15	130	
DCS/3	DCS BUILDING STAIRTOWERS	–	846	846	0.15	130	
DCS/4	DCS BUILDING FIRST FLOOR SUPPORT	LIGHT HAZARD	11,300	3000	0.10	130	
DCS/5	DCS BUILDING FIRST FLOOR DCT	ORDINARY HAZARD GROUP 1	6050	3000	0.15	130	
DCS/6	DCS BUILDING SECOND FLOOR FFT	–	4980	–	–	–	NOT SPRINKLERED
DCS/7	DCS BUILDING SECOND FLOOR SUPPORT	LIGHT HAZARD	11,000	3000	0.10	130	
DCS/8	DCS BUILDING SECOND FLOOR DCT	ORDINARY HAZARD GROUP 1	7700	3000	0.15	130	
DCS/9	DCS BUILDING THIRD FLOOR FFT	–	4900	–	–	–	NOT SPRINKLERED
DCS/10	DCS BUILDING THIRD FLOOR SUPPORT	LIGHT HAZARD	15,000	3000	0.10	130	
DCS/11	HAZARDOUS MATERIAL STORAGE	ORDINARY HAZARD GROUP 2;DRY PIPE	625	625	0.20	130	2 CFM, 50 PSIG MAINTENANCE AIR COMPRESSOR, 1/4 HP, 120V/1/60

WATER FLOW / TAMPER SWITCH SCHEDULE

TAG NO.	ALARM DEVICE	APPLICATION		LOCATION	VALVE POSITION	REMARKS
		AS ZONE NO.	EQUIPMENT COMPONENT		OPEN / CLOSED	
TS 1 / WFS 1	TAMPER SWITCH FLOW ALARM	DCS/1	-	STORAGE ROOM B07 SUPPORT BASEMENT	OPEN	-
TS 2 / WFS 2	TAMPER SWITCH FLOW ALARM	DCS/2	-	CORRIDOR B12 SUPPORT BASEMENT	OPEN	-
TS 3 / WFS 3	TAMPER SWITCH FLOW ALARM	DCS/3	-	CORRIDOR B12 SUPPORT BASEMENT	OPEN	STAIRS NO. 1 & 2 IN FFT BUILDING
TS 4 / WFS 4	TAMPER SWITCH FLOW ALARM	DCS/4	-	STAIR #3 120	OPEN	-
TS 5 / WFS 5	TAMPER SWITCH FLOW ALARM	DCS/5	-	STAIR #4 141	OPEN	-
TS 6 / WFS 6	NOT USED	-	-	-	-	-
TS 7 / WFS 7	TAMPER SWITCH FLOW ALARM	DCS/7	-	STAIR #3 230	OPEN	-
TS 8 / WFS 8	TAMPER SWITCH FLOW ALARM	DCS/8	-	STAIR #4 229	OPEN	-
TS 9 / WFS 9	NOT USED	-	-	-	-	-
TS 10 / WFS 10	TAMPER SWITCH FLOW ALARM	DCS/10	-	STAIR #3 311	OPEN	-
TS 11 / WFS 11	TAMPER SWITCH FLOW ALARM	DCS/11	-	CORRIDOR B12	OPEN	DRY PIPE SYSTEM
TS 12	TAMPER SWITCH	-	MAIN FIRE LINE SUPPLY VALVE	STORAGE ROOM B07 SUPPORT BASEMENT	OPEN	-
TS 13	TAMPER SWITCH	-	SPRINKLER RISER SUPPLY VALVE	STORAGE ROOM B07 SUPPORT BASEMENT	OPEN	STAIR NO.
TS 14 / WFS 14	TAMPER SWITCH	-	MAIN SUPPLY VALVE	STORAGE ROOM B07 SUPPORT BASEMENT	OPEN	ALARM VALVE ASSEMBLY WITH PRESSURE SWITCH
TS 15	TAMPER SWITCH	-	SPRINKLER RISER SUPPLY VALVE	CORRIDOR B12 SUPPORT BASEMENT	OPEN	STAIR NO.
TS 16	TAMPER SWITCH	-	DCA SCHOOL MAIN SUPPLY	ADJACENT BLDG. 520 FIRE PUMP ROOM	OPEN	
TS 17 / WFS 17	TAMPER SWITCH FLOW ALARM	DCS/12	-	CORRIDOR B12 SUPPORT BASEMENT	OPEN	PROPANE YARD MONITOR NOZZLES
TS 18	TAMPER SWITCH	-	POST INDICATOR VALVE	PROPANE YARD	CLOSED	PROPANE YARD MONITOR NOZZLES
TS 19	TAMPER SWITCH	-	POST INDICATOR VALVE	PROPANE YARD	CLOSED	PROPANE YARD MONITOR NOZZLES

FIRE PROTECTION PIPING LEGEND

- F — FIRE PROTECTION WATER (UNDERGROUND)
- F — FIRE PROTECTION WATER
- CAP
- HOSE END DRAIN
- CONNECTION, SIDE
- CONNECTION, BOTTOM
- CONNECTION, TOP
- OFFSET
- ELBOW TURNED UP OR TEE UP & DOWN
- ELBOW TURNED DOWN OR TEE UP & DOWN
- VALVE IN VERTICAL RISER
- DIRECTION OF FLOW
- PITCH DOWN IN DIRECTION OF ARROW
- OS&Y GATE VALVE
- OS&Y GATE VALVE WITH TAMPER SWITCH
- CHECK VALVE
- CHECK VALVE WITH BALL DRIP
- ALARM VALVE
- DRY PIPE VALVE

TAGS AND TITLES

DETAIL SEQUENCE NUMBER
TITLE OF DETAIL — DETAIL TITLE
SCALE OF DETAIL
SHEET ON WHICH DETAIL IS DRAWN
SHEET ON WHICH DETAIL IS REFERENCED

EQUIPMENT TAG
EQUIPMENT NUMBER
EQUIPMENT IDENTIFICATION TAG (SEE SCHEDULE FOR CAPACITIES)

N/S — NOT SPRINKLED

ABBREVIATIONS

AD	ACCESS DOOR	IN (")	INCH
AFF	ABOVE FINISHED FLOOR	L	LENGTH
BFP	BACK FLOW PREVENTER	LBS	POUNDS
BLDG	BUILDING	MAX	MAXIMUM
BOP	BOTTOM OF PIPE	MECH	MECHANICAL
BOS	BOTTOM OF STEEL	MIN	MINIMUM
CAP	CAPACITY	N/A	NOT APPLICABLE
CLG	CEILING	NIC	NOT IN CONTRACT
CI	CAST IRON	NO (#)	NUMBER
CL	CENTERLINE	NTS	NOT TO SCALE
COL	COLUMN	OC	ON CENTER
CONN	CONNECTION	%	PERCENT
CONT	CONTINUATION	PD	PRESSURE DROP
CU	CUBIC	PH	PHASE
D, DIA	DIAMETER	PIV	POST INDICATOR VALVE
DEG	DEGREES	PLBG	PLUMBING
DN	DOWN	PRESS	PRESSURE
DWG	DRAWING	PSI(G)	POUNDS PER SQUARE INCH (GAUGE)
EL	ELEVATION	RPM	REVOLUTIONS PER MINUTE
ELEC	ELECTRIC, ELECTRICAL	SD	SMOKE DETECTOR
EQUIP	EQUIPMENT	SPEC	SPECIFICATION
F	FAHRENHEIT	SQ	SQUARE
FL	FLOOR	STD	STANDARD
FP	FIRE PROTECTION	TEMP	TEMPERATURE
FT (')	FEET	TOS	TOP OF STEEL
GA	GAUGE	TS	TAMPER SWITCH
GAL	GALLONS	TYP	TYPICAL
GPM	GALLONS PER MINUTE	VERT	VERTICAL
H	HEIGHT	V	VENT, VOLTS
HB	HOSE BIBB	VA	VALVE
HORIZ	HORIZONTAL	WFS	WATER FLOW SWITCH
HP	HORSEPOWER	W/	WITH
HR	HOUR	W	WIDTH
HZ	HERTZ		

FIRE EQUIPMENT SCHEDULE

TAG NO.	CABINET			EXTINGUISHER		REMARKS
	INSIDE BOX DIMENSIONS	TYPE	DOOR	UL RATING	CAPACITY	
F-1	27" H X 12" W X 8" D	RECESSED	SOLID PANEL	–	–	WITH ONE TYPE F-2 EXTINGUISHER
F-2	–	–	–	20A:120B:C	20 LB	MULTI-PURPOSE DRY CHEMICAL
F-3	–	–	–	10B:C	10 LB	CARBON DIOXIDE

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SOUTHERN DIVISION
CHARLESTON, S.C.
NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
FIRE PROTECTION SYMBOLS, SCHEDULES AND ABBREVIATIONS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
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		CONSTR CONTR NO. N62467-93-C-1143	
SCALE NONE		SPEC 06-93-1143	SHEET 199 OF ...

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B-50

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P: TB-ROOT PS Rsize=0.0
P: JPRFF001 PS Rsize=0.0

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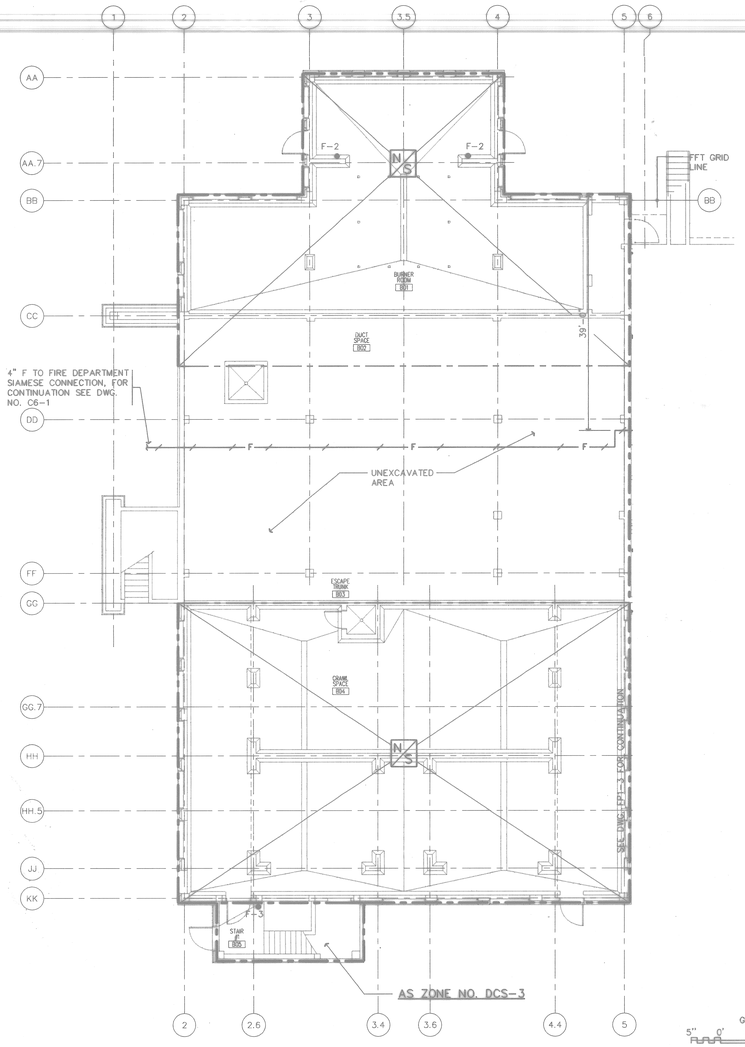
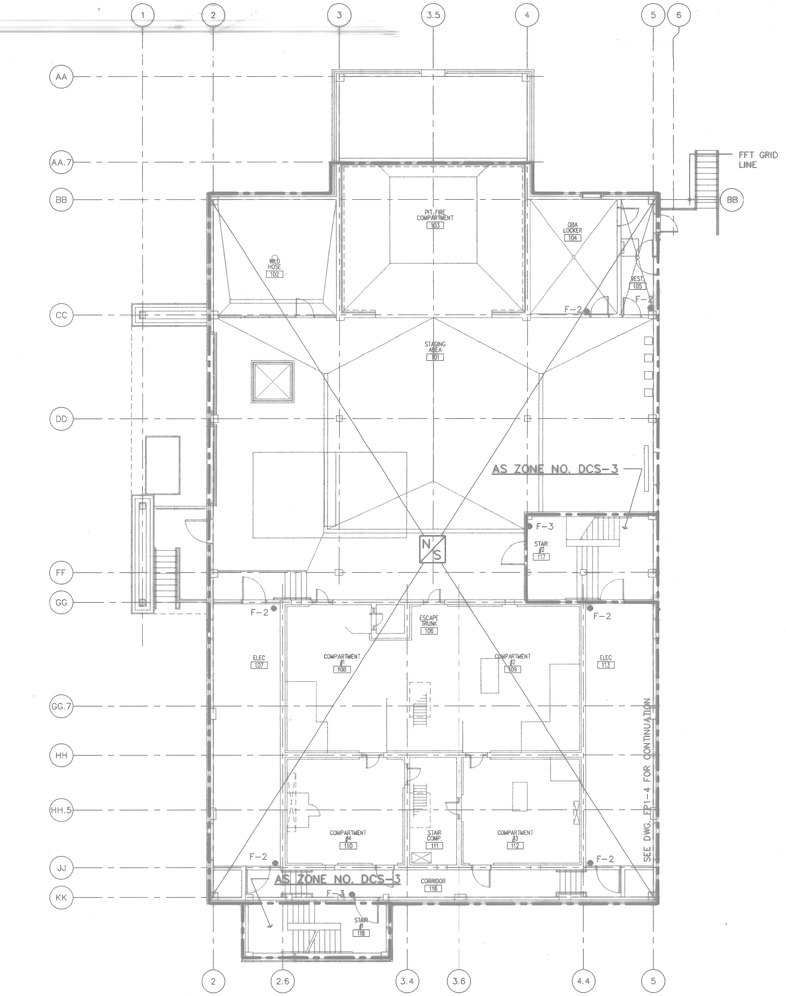
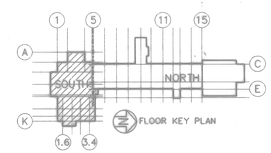


1 FIRST FLOOR CRAWL SPACE PLAN
SCALE: 1/8"=1'-0"
FP1-1 FP1-1



2 PARTIAL FIRST FLOOR PLAN
SCALE: 1/8"=1'-0"
FP1-1 FP1-1

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



FLOOR KEY PLAN

P1	10/30/97	FS	Issued for CD's
P2	11/07/97	FS	Revised per CD's
P3	02/27/98	FS	Issued for 100%
P4	03/27/98	FS	Issued for 100%
P5	07/07/98	FS	Issued for 100%

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CHARLESTON, S.C.

DSN: CALDER CASTELLOW RAUCH
SUPV: RAUCH DR. ENGR
SUBMITTED BY: 8-31-94
EIC: DATE
PM: DATE
APPROVED: DATE
DIVISION OF CHARGE
SUPERVISOR: DATE 9/12/94
ARB FOR CONSTRUCTION

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E-64727
REGISTERED PROFESSIONAL ENGINEER
ORIGINAL ENGR.
ARCH. & ENGR. SEAL

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GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
FIRST FLOOR CRAWL SPACE AND FIRST FLOOR PLAN - SOUTH

SIZE	CODE IDENT NO.	NAVFac DRAWING NO.	DRAWING NO.
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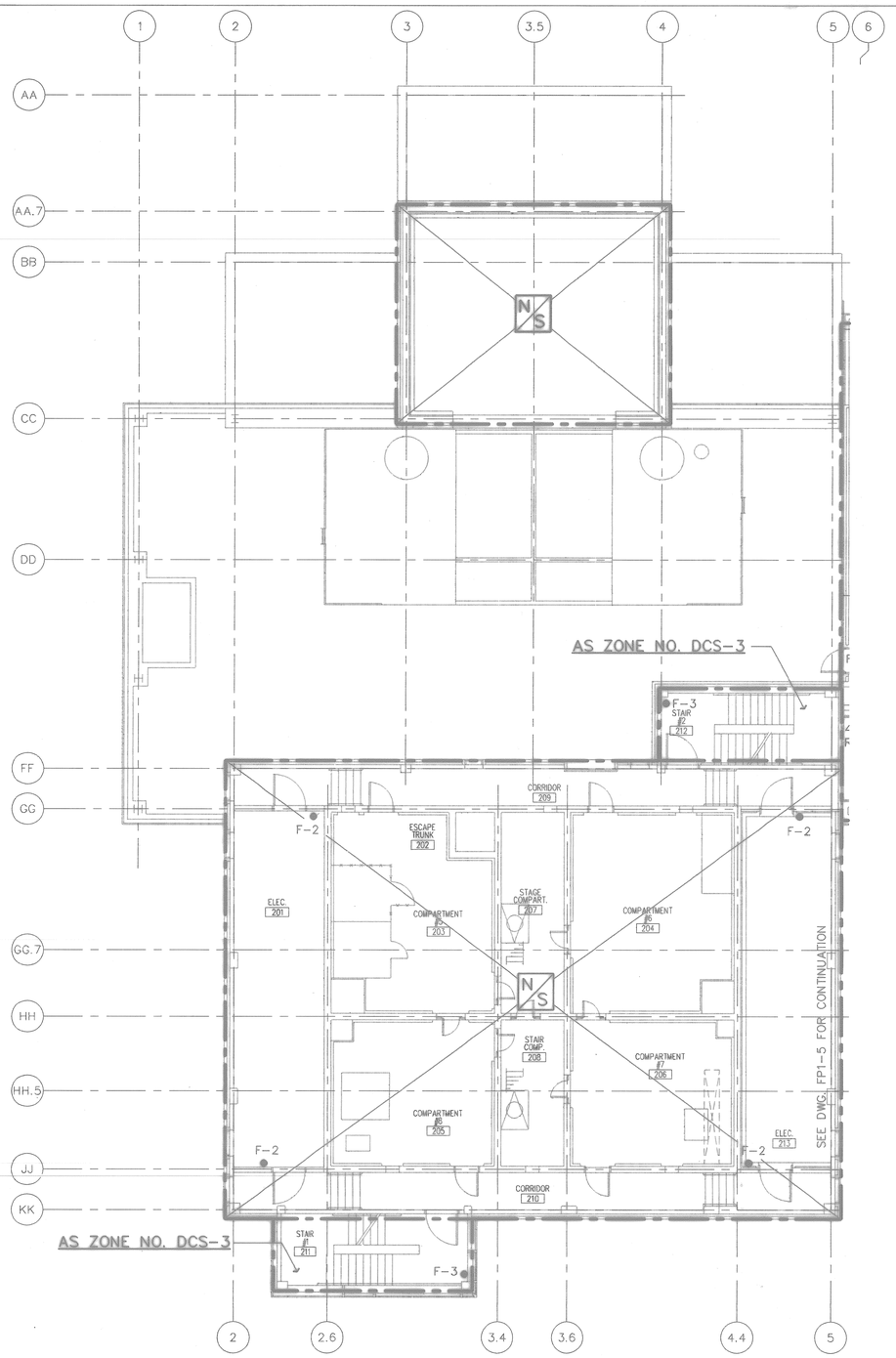
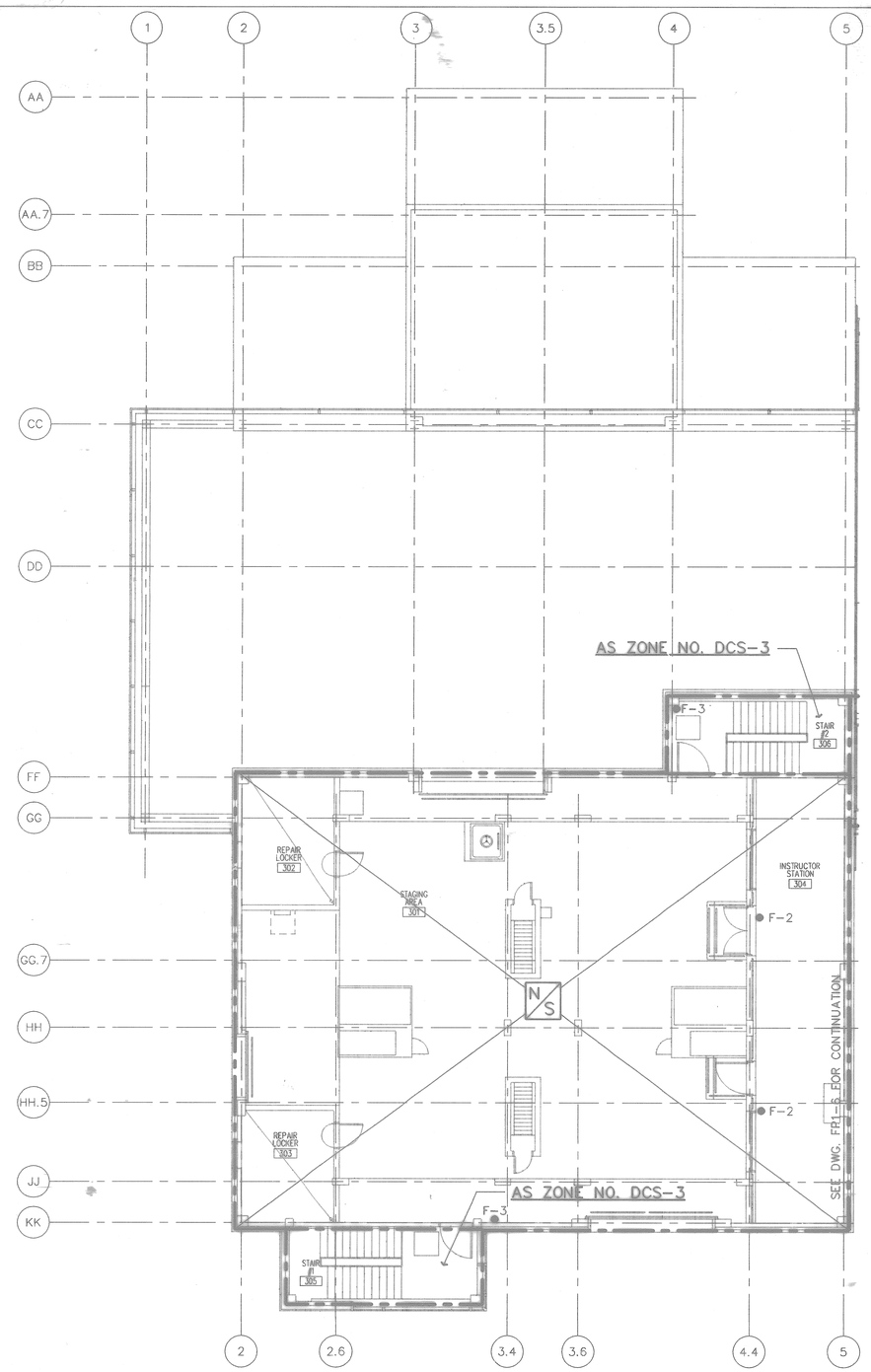
		CONTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 200 G

B-510



1 PARTIAL SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"
FP1-2 FP1-2



2 PARTIAL THIRD FLOOR PLAN
SCALE: 1/8"=1'-0"
FP1-2 FP1-2

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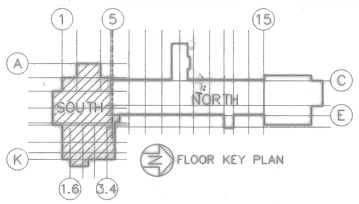
SCALE 1/8" = 1'-0"



FLOOR KEY PLAN

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SUBMITTED BY DATE 8-21-97
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EIC DR NO.
FPE DR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE 8/12/98
FTD FOR COMMANDER, NAVFAC

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REGISTERED PROFESSIONAL ENGINEER

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SOUTHERN DIVISION
CHARLESTON, S.C.

NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL SECOND AND THIRD FLOOR PLAN - SOUTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
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		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 201 OF

B-90

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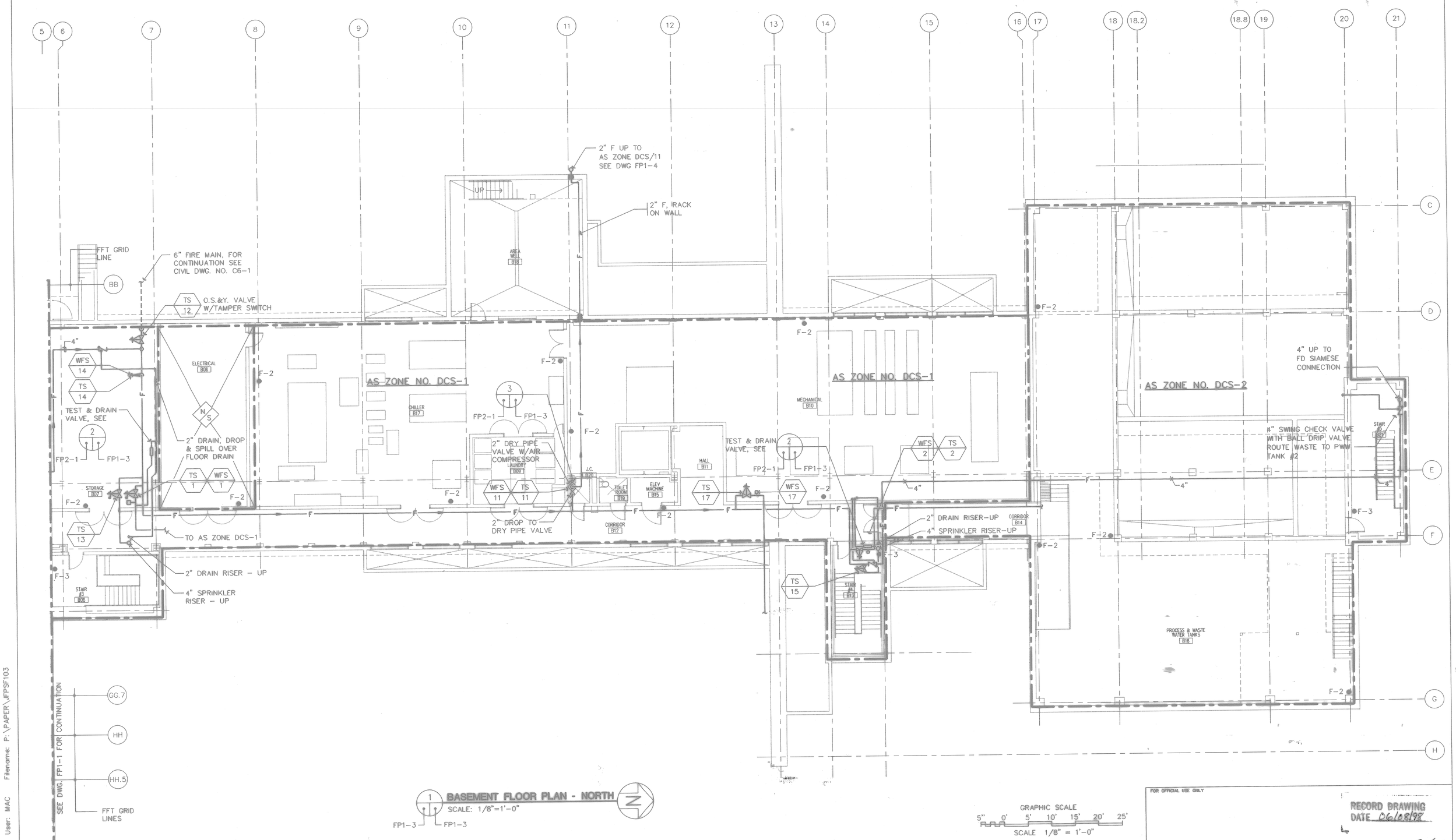

BASEMENT FLOOR PLAN - NORTH
SCALE: 1/8"=1'-0"

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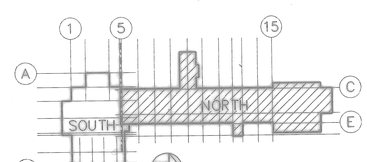
SCALE 1/8" = 1'-0"



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NAVAL TRAINING CENTER GREAT LAKES, ILLINOIS

DAMAGE CONTROL SCHOOL
BASEMENT FLOOR PLAN
- NORTH

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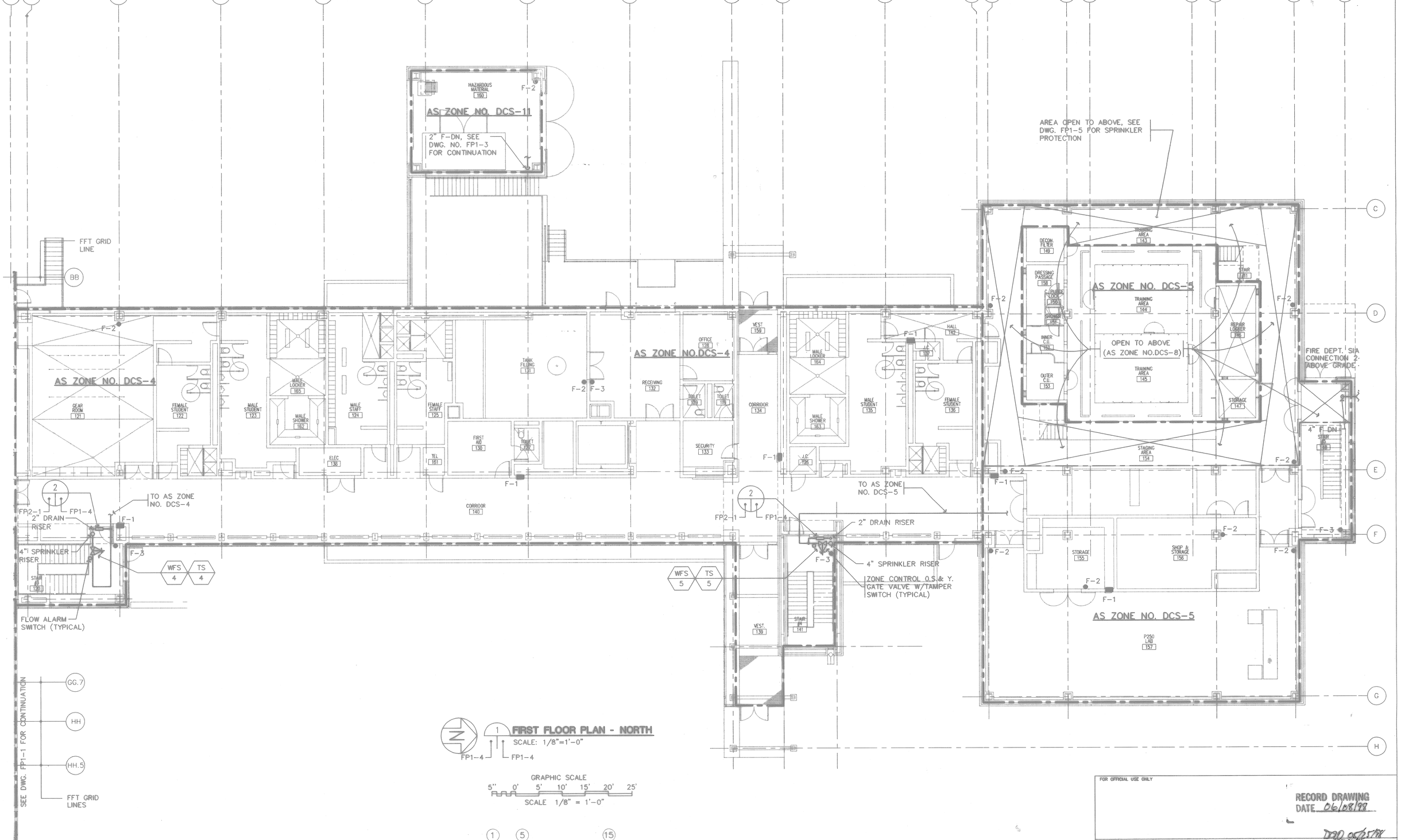

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DAMAGE CONTROL SCHOOL FIRST FLOOR PLAN - NORTH

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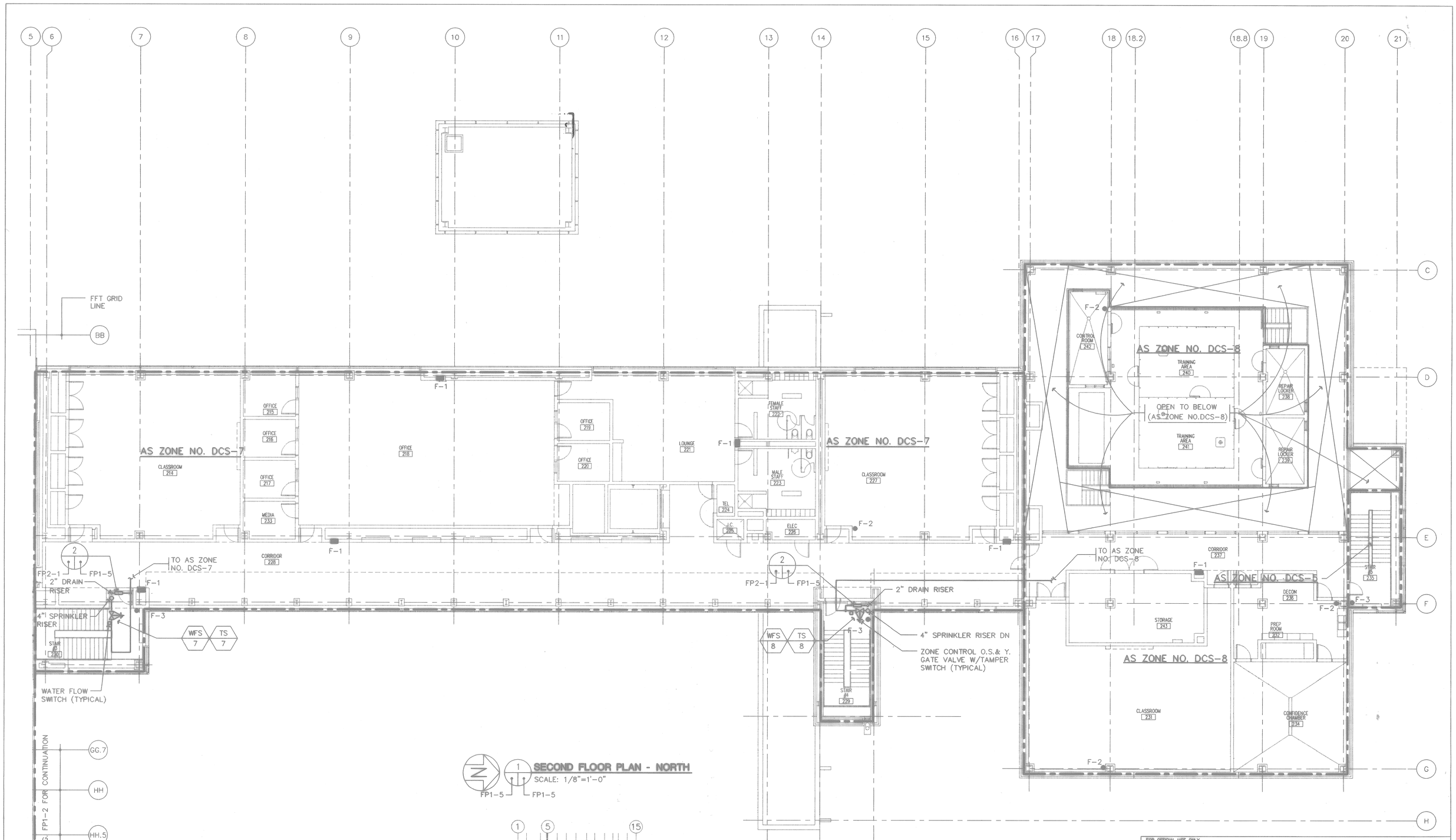

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DAMAGE CONTROL SCHOOL SECOND FLOOR PLAN - NORTH

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SUPV RAUCH CH ENGR
SUBMITTED BY 8-27-97 DATE
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EIC GR HD
FPEO DIR
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APPROVED 9/12/97 DATE
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SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276618	FP1-5
SCALE 1/8"=1'-0"		SPEC 06-93-1143	SHEET 2 of 4

CONSTR CONTR NO. N62467-93-C-1143

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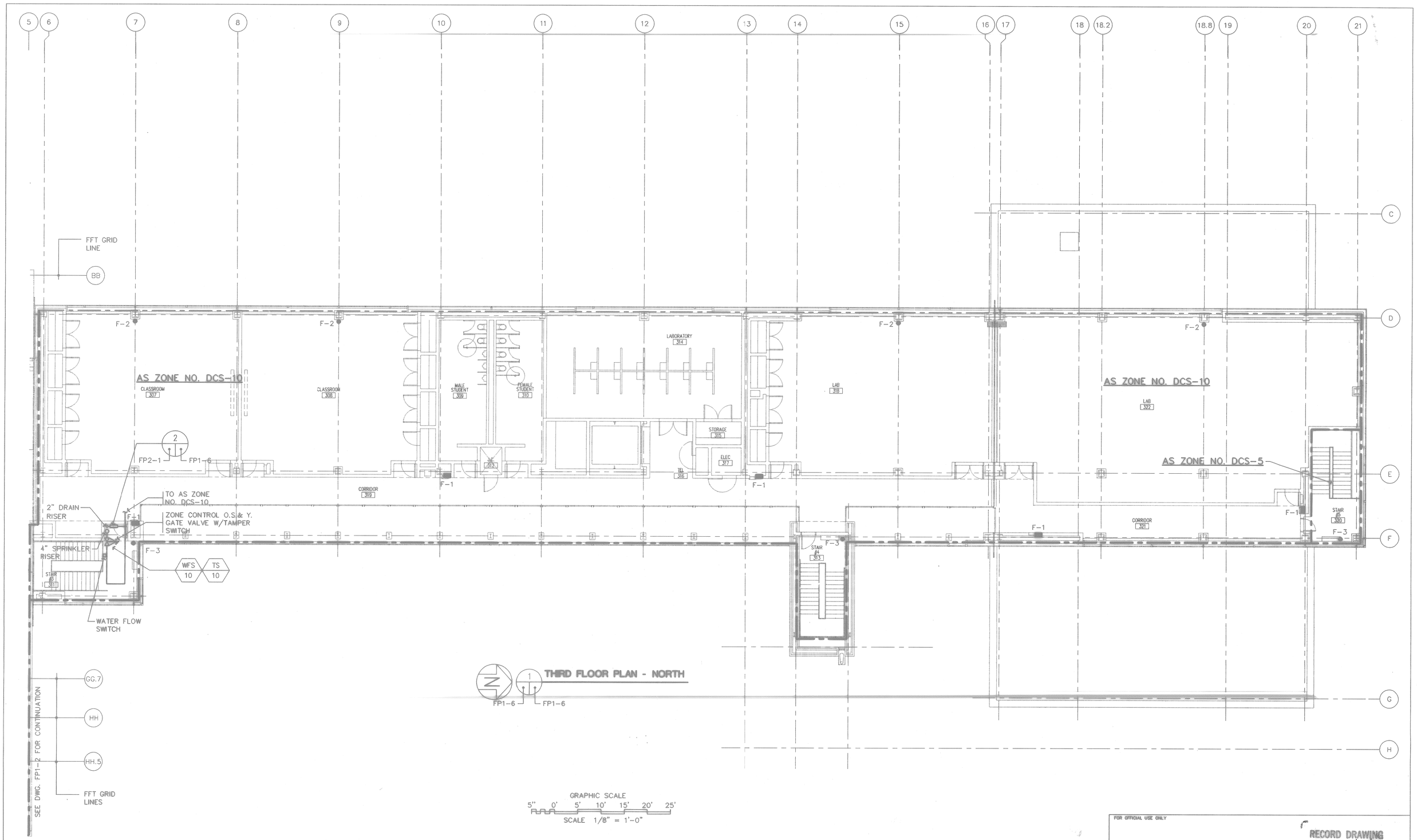

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NAVAL TRAINING CENTER — GREAT LAKES, ILLINOIS

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SUPV RAUCH CH ENGR
SUBMITTED BY — DATE 8-31-94
PROJ MANAGER
EIC — SR HD
FPE — DIR
APPROVED — DATE
OFFICER IN CHARGE
APPROVED — DATE 9/12/94
STD FOR COMMANDER, NAVFAC

STATE OF OHIO — CHRISTOPHER S. RAUCH — E-54727 — REGISTERED PROFESSIONAL ENGINEER

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DAMAGE CONTROL SCHOOL
THIRD FLOOR PLAN - NORTH

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276619	FP1-6
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE 1/8"=1'-0"		SPEC 08-93-1143	SHEET 225 OF

B-50

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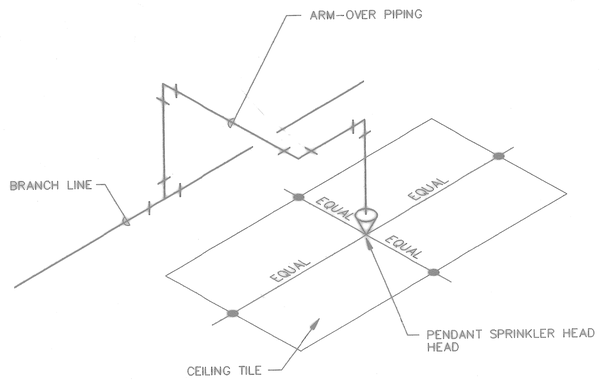
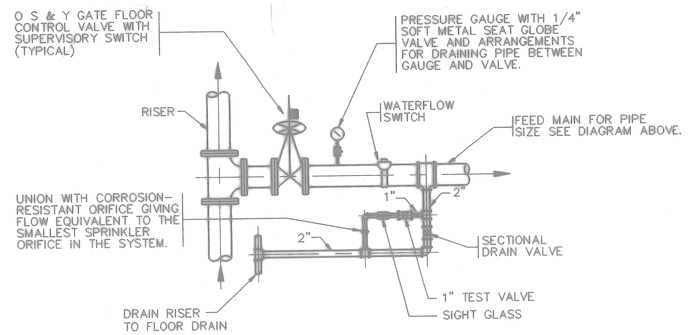
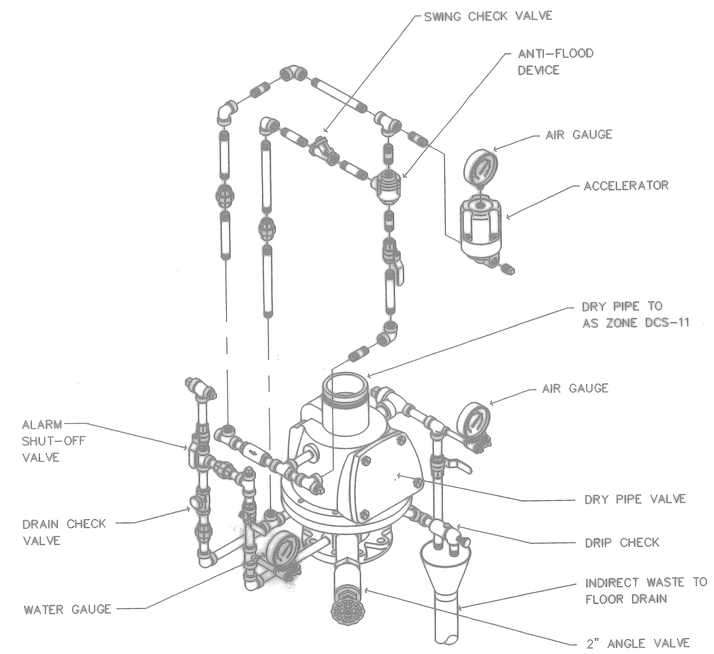


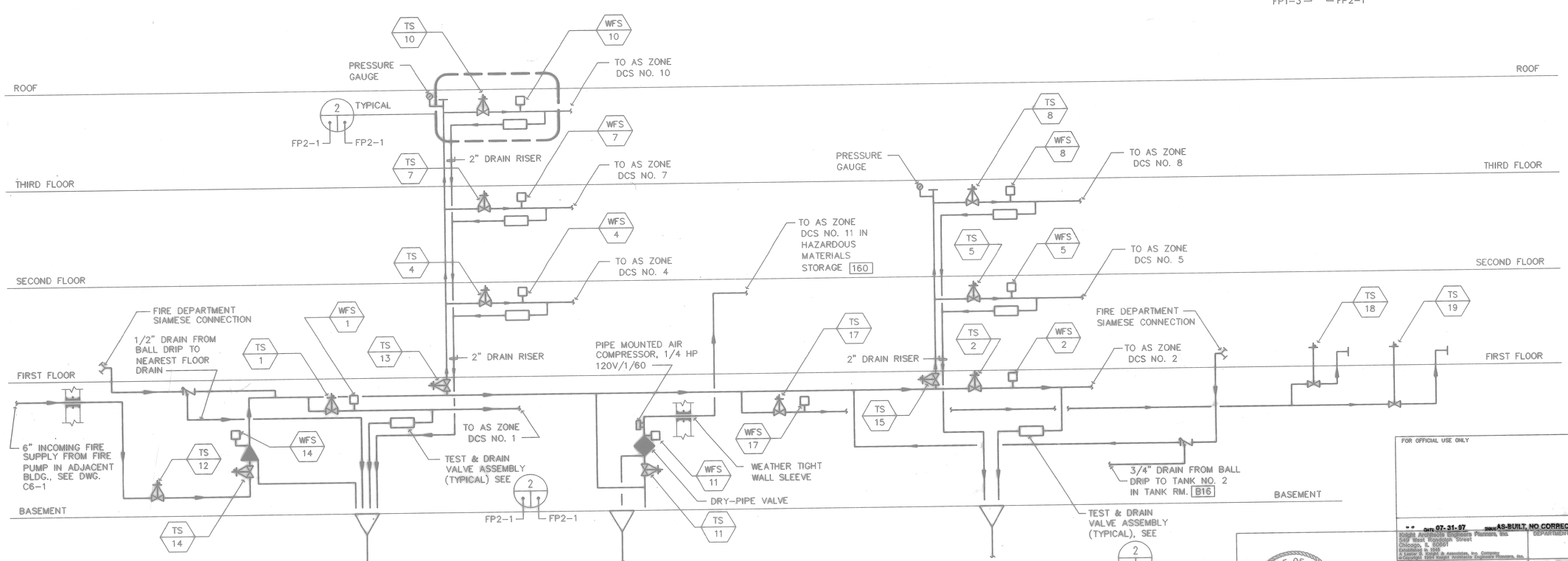
1 **TYPICAL SPRINKLER HEAD LOCATION**
SCALE: NONE
FP1-3 THRU FP1-6 — FP2-1



2 **ZONE CONTROL VALVE DETAIL**
SCALE: NONE
FP1-3 THRU FP1-6 — FP2-1



3 **DRY PIPE VALVE DETAIL**
SCALE: NONE
FP1-3 — FP2-1



4 **FIRE PROTECTION RISER DIAGRAM**
SCALE: NONE
FP2-1 — FP2-1

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DESIGN CALDER CASTELLI RAUCH
SUPV RAUCH DH. ENGR
SUBMITTED BY DATE 8-21-94
FRM MEMBER DATE
EIC BR HD
FPE DIR
APPROVED DATE
OFFICER IN CHARGE
APPROVED DATE 9/14/94
SPD FOR CONSTRUCTION NAVFAC

STATE OF OHIO CHRISTOPHER S. RAUCH E-54727 PROFESSIONAL ENGINEER
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
FIRE PROTECTION
DIAGRAMS AND DETAILS

SIZE	CODE IDENT NO.	NAVFAC DRAWING NO.	DRAWING NO.
F	80091	5276620	FP2-1
		CONSTR CONTR NO. N62467-93-C-1143	
SCALE AS NOTED		SPEC 08-93-1143	SHEET 206 OF

B-510

Filename: P:\PAPER\JFPSF201
User: MAC
Date&time: 08/30/94 11:33:02

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A	TTL-HINGT	PS	lines=0,0
A	JPWRGRT	PS	lines=0,0
A	JPWRGRT	PS	lines=0,0