

RENOVATIONS AND ADDITIONS TO

# EDUCATION BUILDING AND ART ANNEX



**CONSTRUCTION COORDINATOR** 

ARKANSAS STATE UNIVERSITY

JONESBORO CAMPUS

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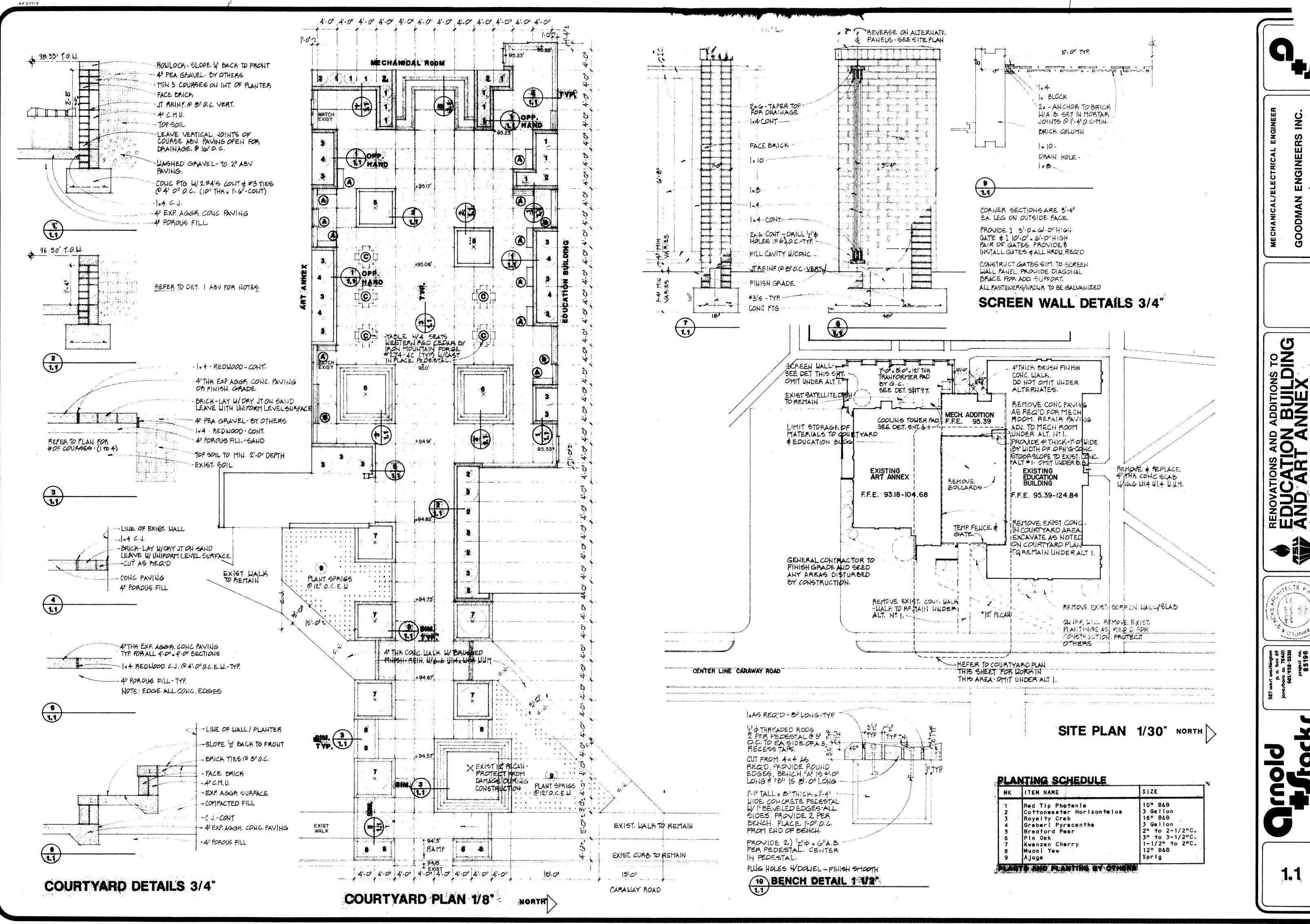
SYMBOL	LEGEND	MATE	MATERIAL LEGEND		
	Door Schedule No.		Compacted F	i11 ·	
' <b>(A</b> )	Window/Frame Type	<b>11.77.13</b>	Structural Co		
<b>(A)</b>	Equipment No.	(22222) (11111111	Brick Concrete Bloc	:k	
(A)(2)	Structural Grid		Metal Plywood		
			Wood (Finish)		
A	н м г Туре		Wood (Rough Insulation (Lo		
A	Building Section		insulation (Rig Glazing	ild)	
<del></del>	Wall Section		Facebrick (El	evation	
$\bigcirc$ - $\bigcirc$ -	Detail	+	Finish Grade Metal Stude		
$0 \over 0.0$	Indicates Detail No. Indicates Sheet No.	FIRST FLOOR			
	Level Line	Art Annex (E	Education Building (Existing) 11,324 Art Annex (Existing) 6,027 Mechanical Addition (New) 1,900		
$\begin{pmatrix} - \end{pmatrix} - \ominus -$	Enlarged Plan/Elevation	SECOND FLOOR Education Bui	SECOND FLOOR Education Building (Existing) 11,324		
<b>♦</b>	General Note	Art Annex (E THIRD FLOOR	Art Annex (Existing) 6		
Classroom 101	Room Name/Room No.	∷ducation Bui	Education Building (Existing) 720		
Finish Marks	Floor/Base Ceiling/Cig Wall Material/Finish Remarks	. <b>Hgt.</b> Total Square Total Square Total Square		35,430 1,900 37,330	

	Compacted	i Fill		
Y: 2: 11	Structural (	Structural Concrete		
7777	Brick			
min	Concrete Block			
	Metal			
	Plywood			
777777		•		
	•	Wood (Finish)		
	Wood (Rough) Insulation (Loose or Batt)			
		Insulation (Edose of Batt) Insulation (Rigid) Glazing Facebrick (Elevation)		
	•			
			11,	
NA.	Finish Grad	0		
<b>EXXXXX</b>	•			
	Metal Stud			
FIRST FLOOR	•			
Education Bui	Metal Stud	11,324	•	
	Metal Stud	•	Sq. Ft	
Education Bui	Metal Stud	11,324 6,027	Sq. Ft	
Education Bui Art Annex (Ex Mechanical Add SECOND FLOOR	Metal Stud	11,324 6,027 1,900	Sq. Ft Sq. Ft	
Education Bui Art Annex (Ex Mechanical Add SECOND FLOOR	Metal Studing (Existing) xisting) dition (New)	11,324 6,027 1,900	Sq. Ft Sq. Ft	
Education Buil Art Annex (Ex Mechanical Add SECOND FLOOR Education Buil	Metal Studing (Existing) xisting) dition (New)	11,324 6,027 1,900	Sq. Ft Sq. Ft	
Education Buil Art Annex (Ex Mechanical Add SECOND FLOOR Education Buil Art Annex (Ex THIRD FLOOR	Metal Studing (Existing) xisting) dition (New)	11,324 6,027 1,900	Sq. Ft.	
Education Bui Art Annex (E) Mechanical Add SECOND FLOOR Education Buil Art Annex (E) THIRD FLOOR	Metal Studing (Existing)  kisting)  dition (New)  dding (Existing)  kisting)  dding (Existing)	11,324 6,027 1,900 11,324 6,035	Sq. Ft Sq. Ft Sq. Ft Sq. Ft Sq. Ft	

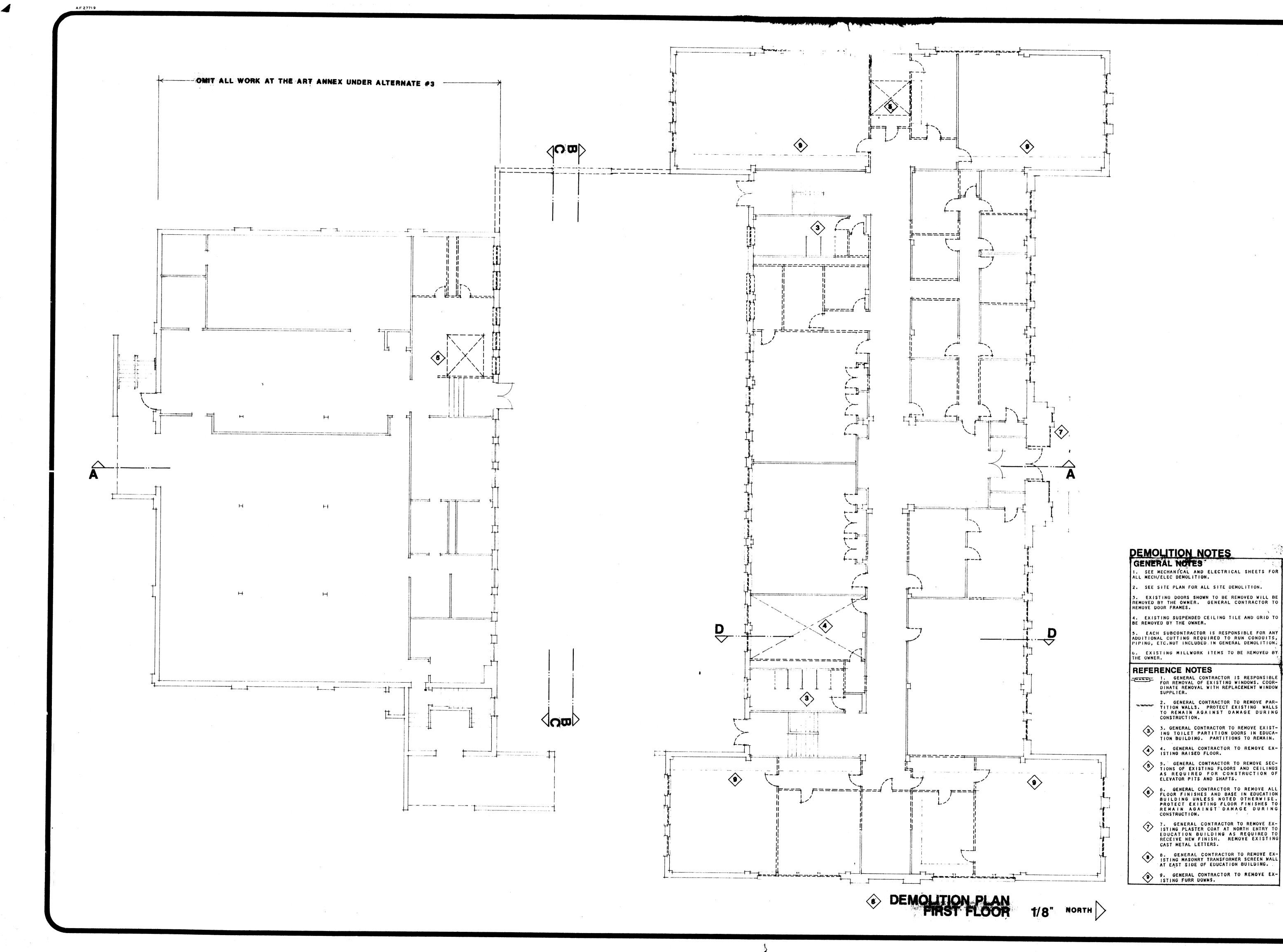
	Compacted	Fill -				
V - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	Structural Concrete		<b>BILL CLINTON</b>	GOVERNO	R OF ARKANSAS	
	Brick					
	Concrete Blo	ck				
	Metal					
	Plywood					
	Wood (Finish)		EUGENE SMITH UNIV		VERSITY PRESIDENT	
	Wood (Rough) Insulation (Loose or Batt)				•	
	insulation (R					
//	Glazing					
	Facebrick (E	levation)				
	Finish Grade				BOARD C	F TRUSTEES
	Metal Studs					
				ROGERS FOR	D	CHAIRMAN
FIRST FLOOR						
Education Building Art Annex (Existi	• •	11,324 Sq. Ft. 6,027 Sq. Ft.		JERRY WATK	INS	VICE CHAIRMAN
Mechanical Additio	on (New)	1,900 Sq. Ft.	•	<b>BONNIE SHAV</b>	ED	SECRETARY
SECOND FLOOR				DOMINE SHAV	En	SECRETANT
Education Building Art Annex (Existi	•	11,324 Sq. Ft. 6,035 Sq. Ft.		HASELLE Mc	CAIN	MEMBER
THIRD FLOOR						
ducation Building	(Existing)	720 Sq. Ft.		WAYNE HART	SFIELD	MEMBER
Total Square Feet Total Sqaure Feet	(Existing) (New)	35,430 Sq. Ft. 1,900 Sq. Ft.	ADI	IS JOHNSON	VICE PRESIDE	NT FOR FINANCE
iotal Square Feet		37,330 Sq. Ft.	Ant	19 300143014	VICE PRESIDE	NI FOR FINANCE
			RON	CARMACK	DIRECTOR OF	PHYSICAL PLANT

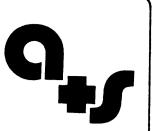
TERRY CARTY

ARNOLD + STACKS ARCHITECTS, P.A. GOODMAN ENGINEERS INC.



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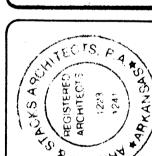


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SATIONS AND ADDITIONS TO SATION BUILDING ART ANNEX

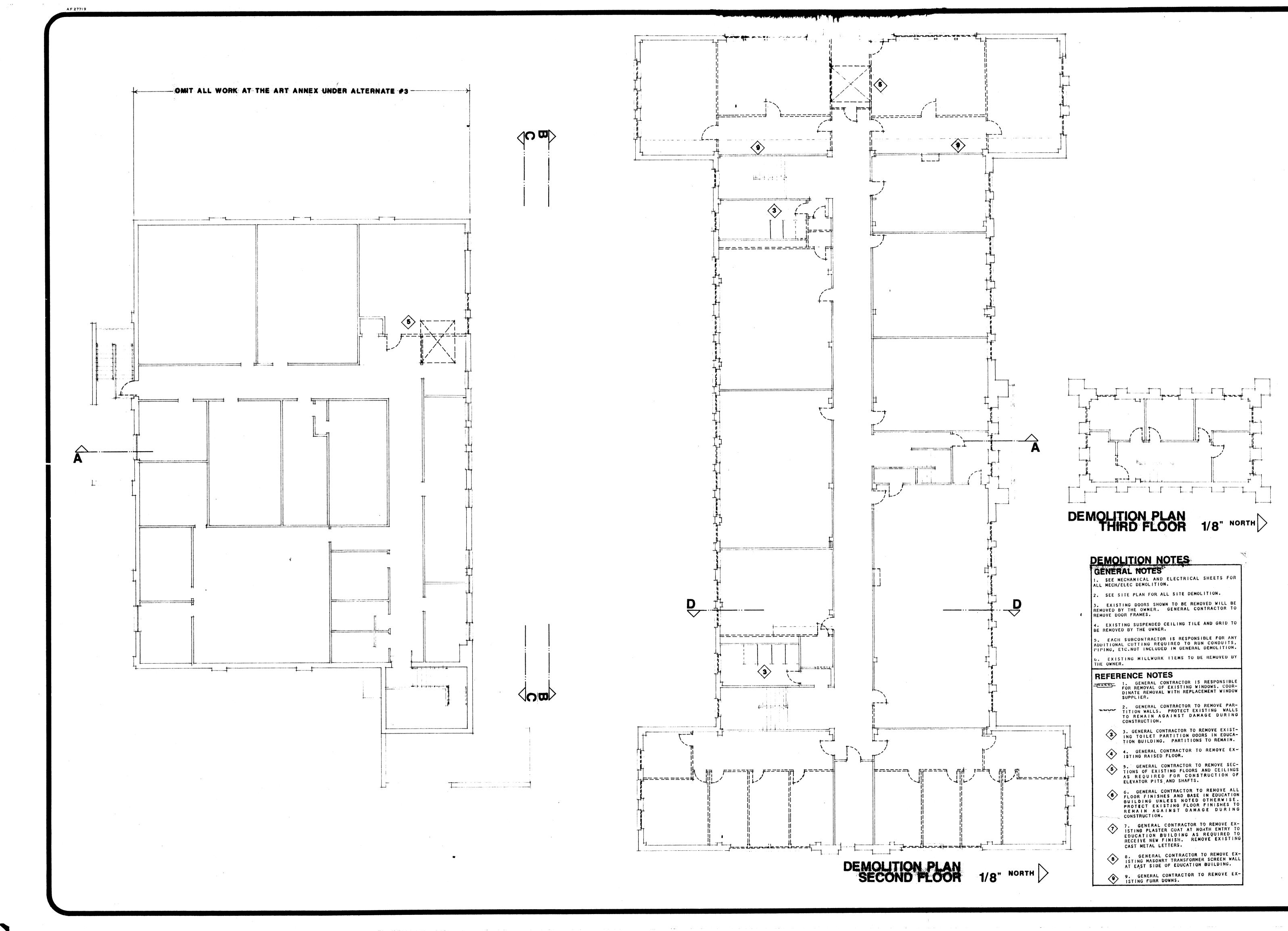




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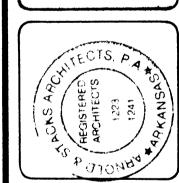
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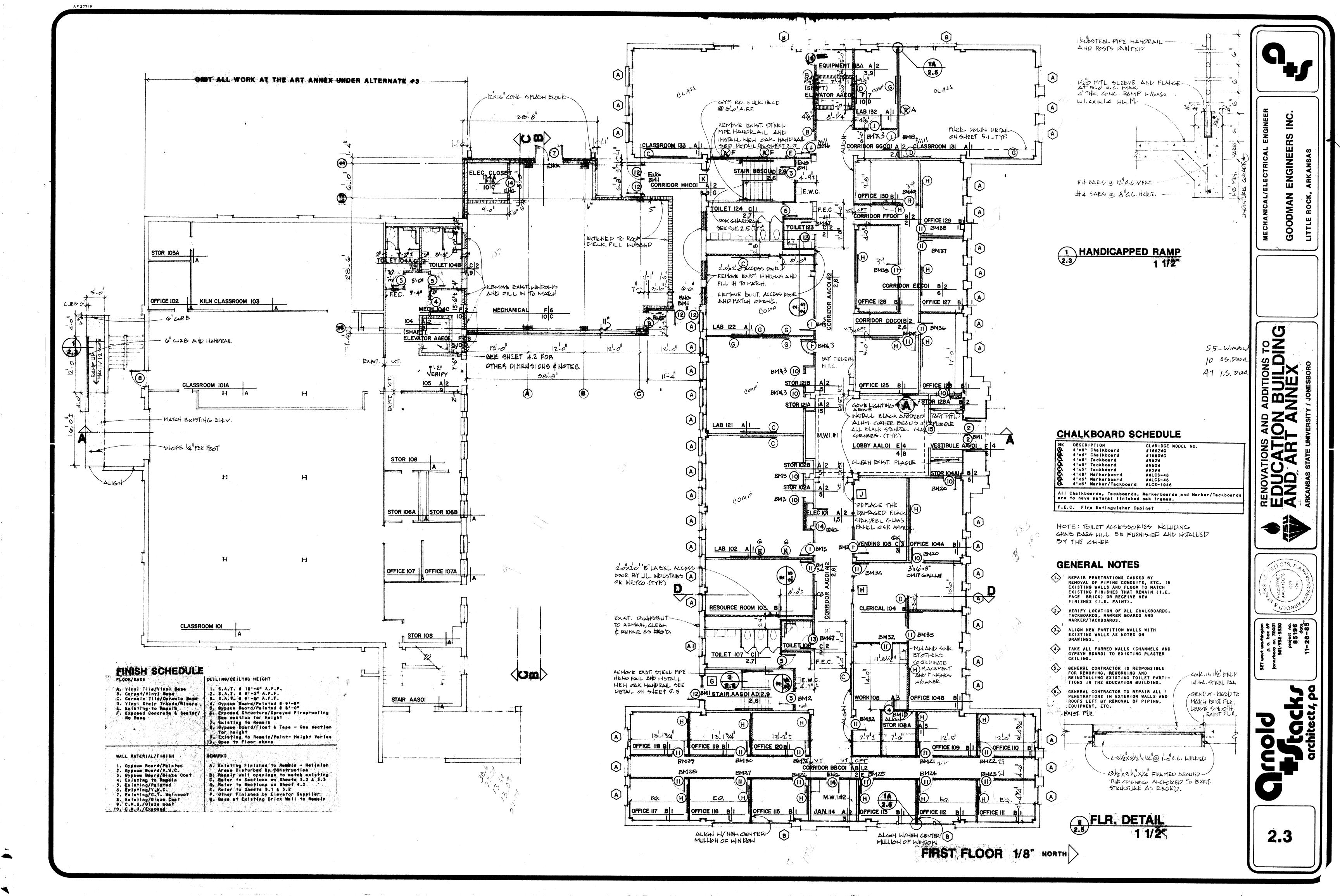
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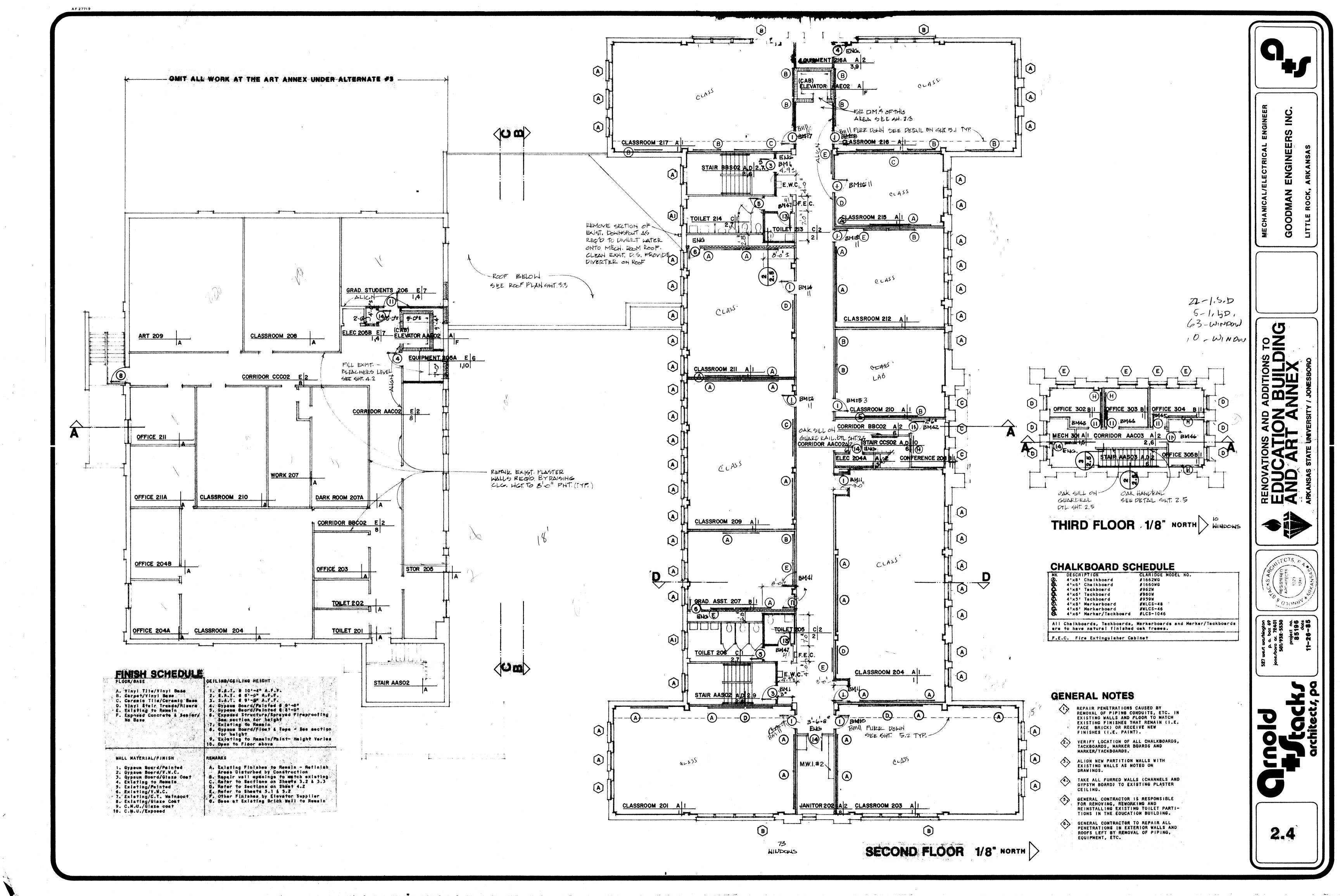


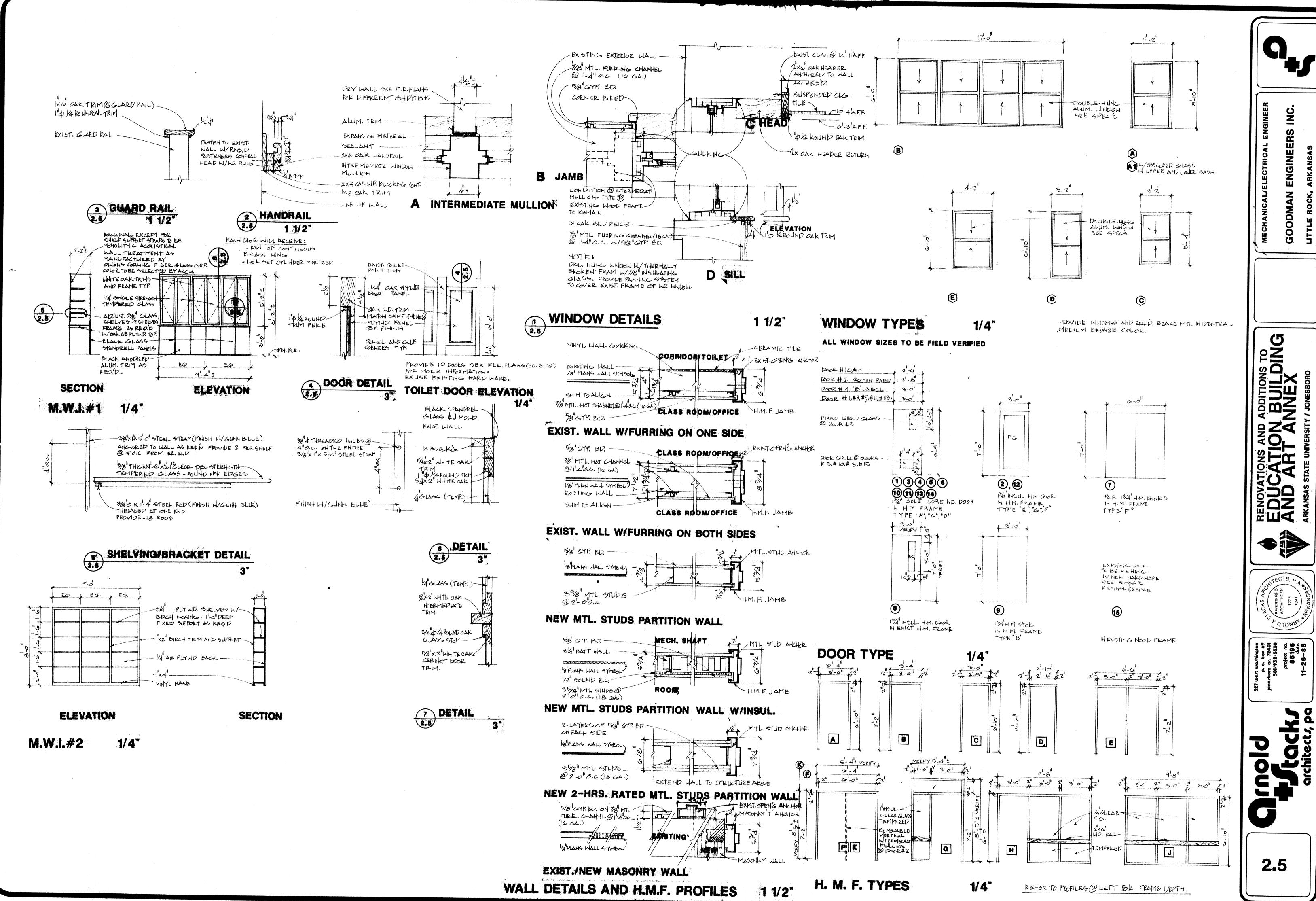


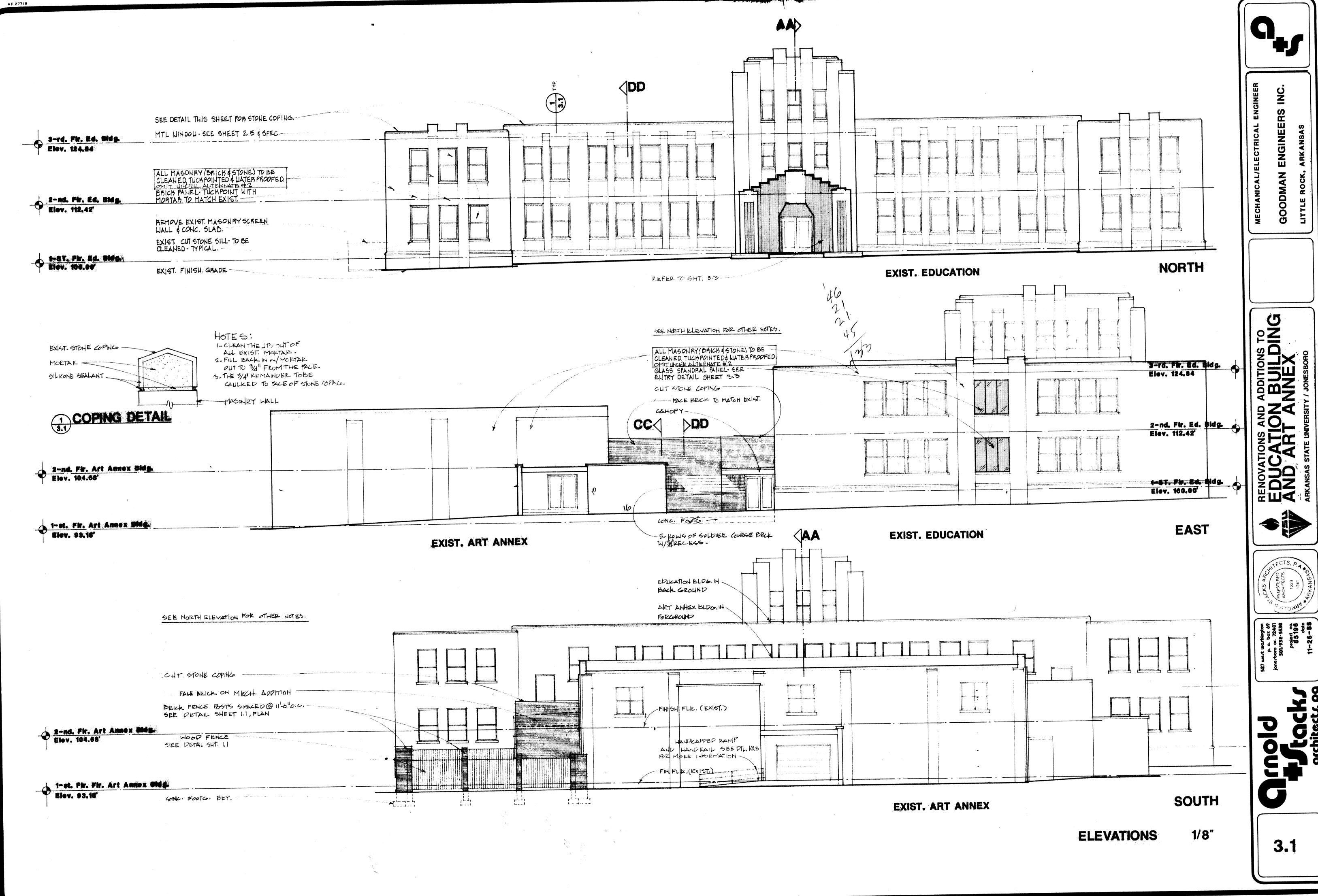


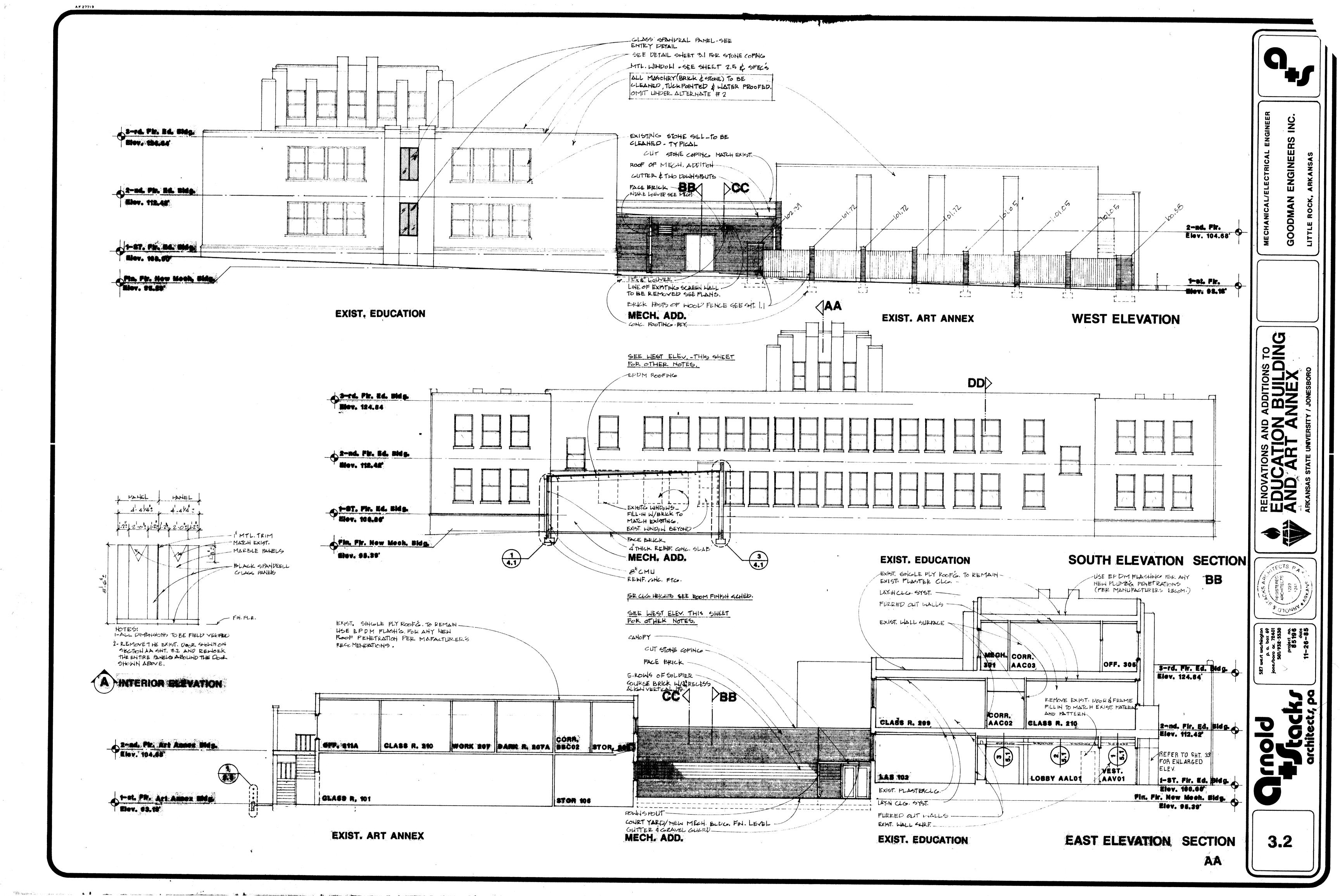


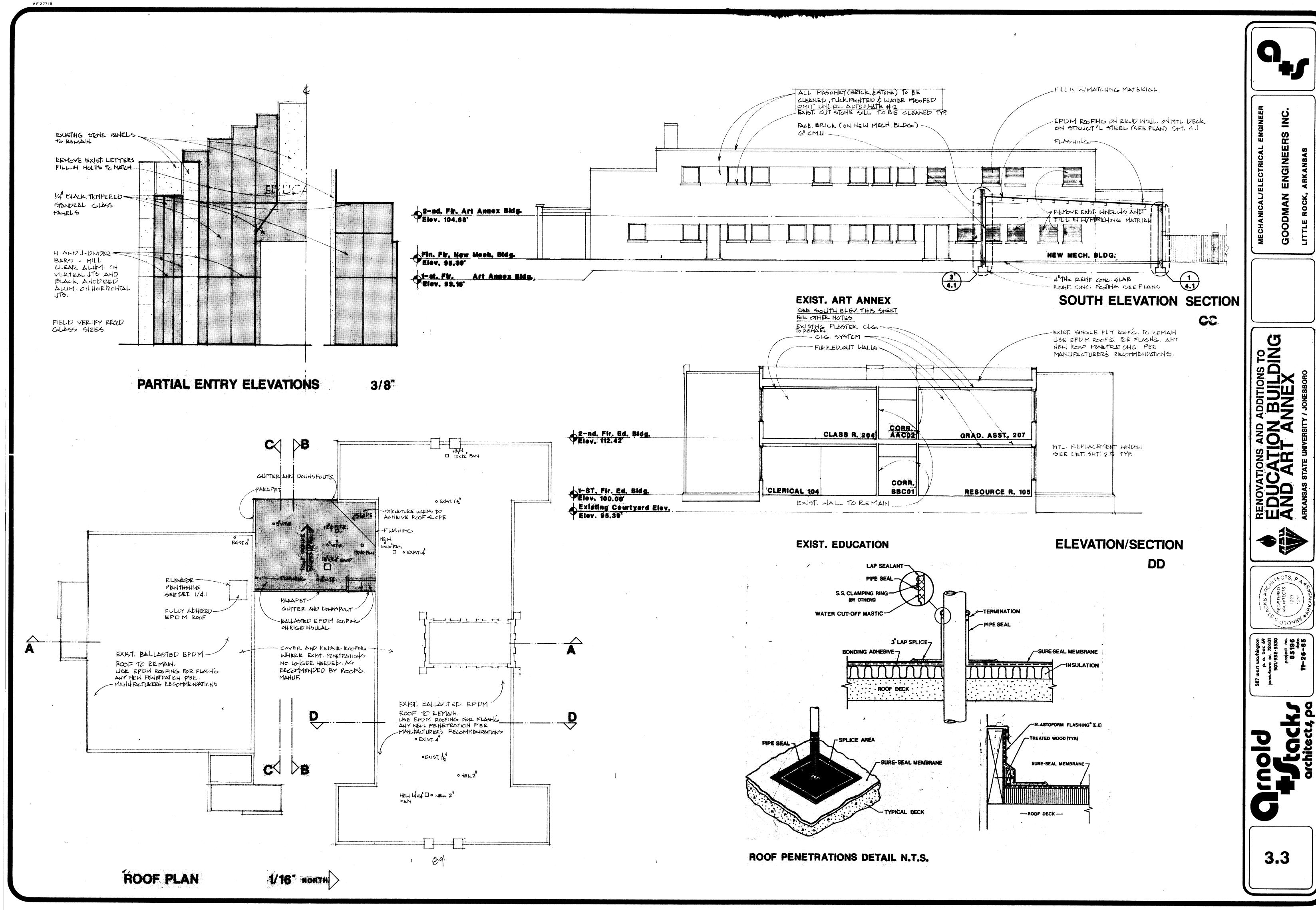


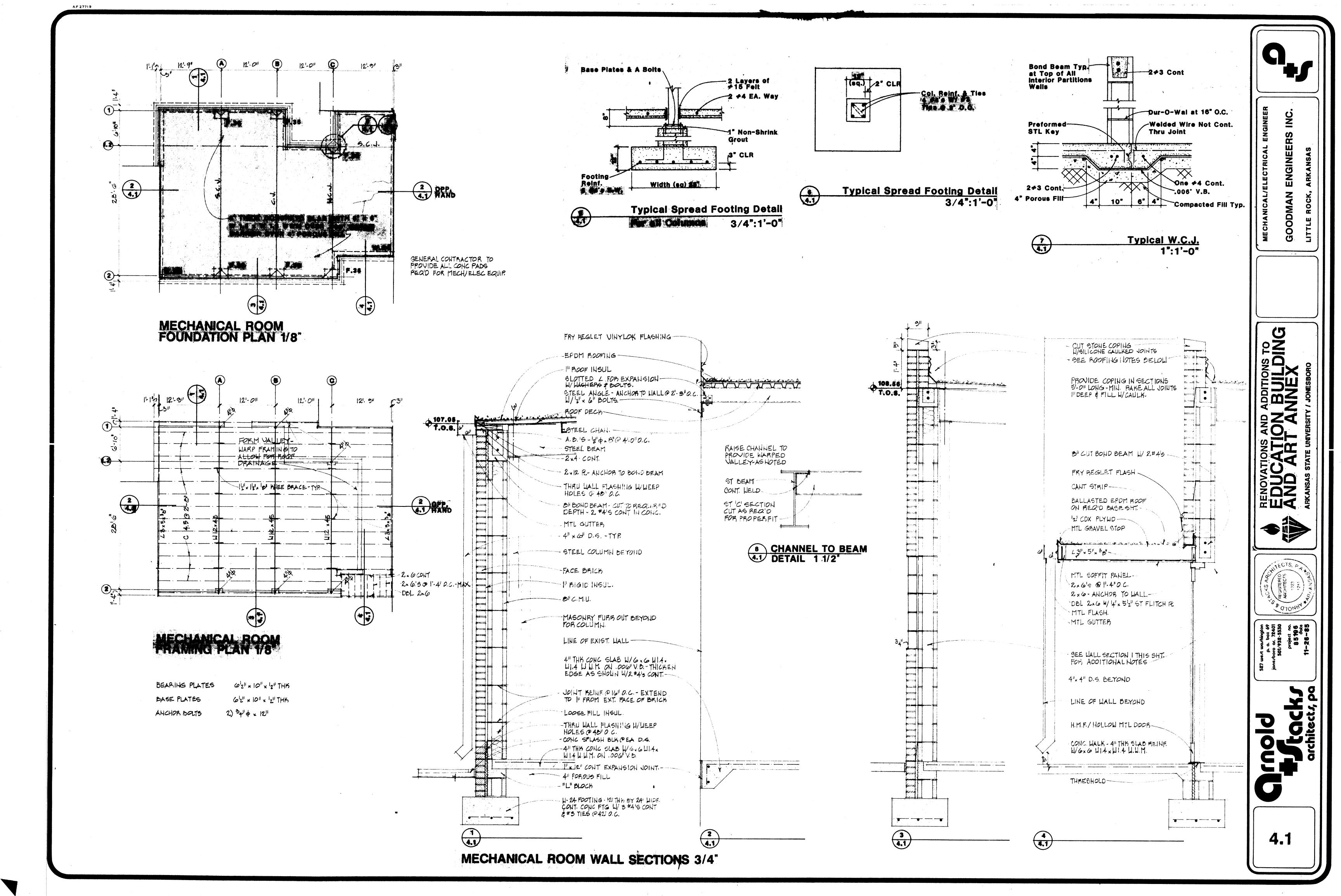


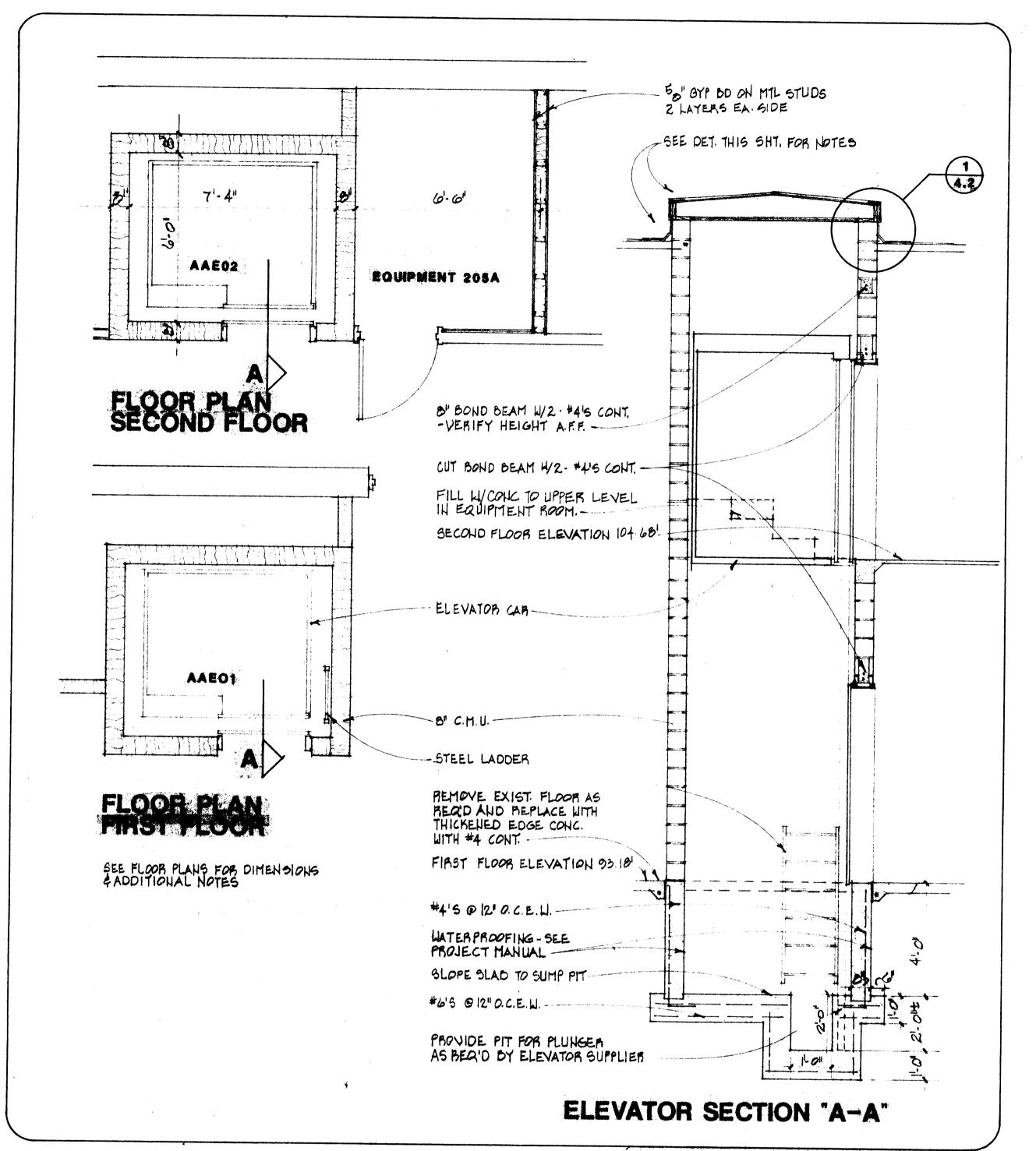




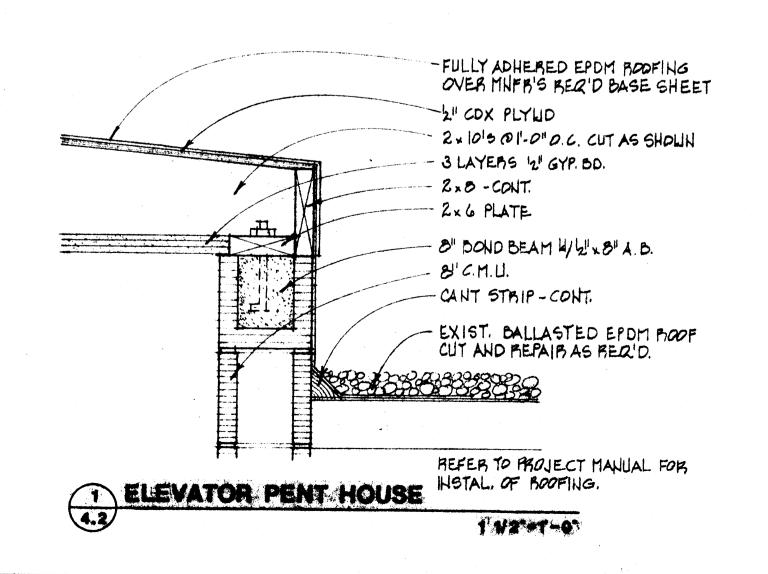


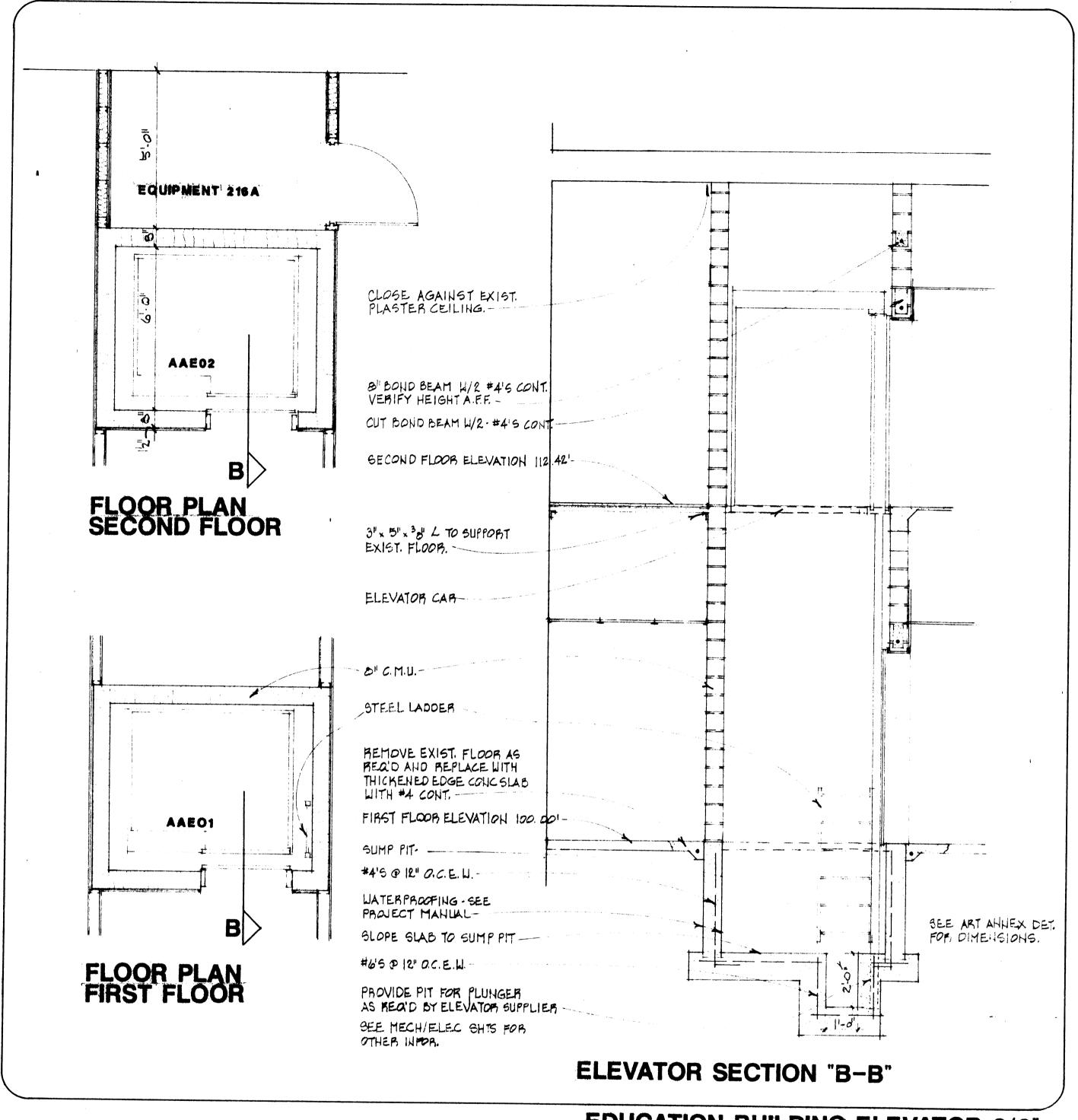






ART ANNEX ELEVATOR 3/8"





**EDUCATION BUILDING ELEVATOR 3/8"** 

#### GENERAL NOTES

- 1. GENERAL CONTRACTOR TO COORDINATE ELEVATOR INSTALLATION WITH ELEVATOR SUPPLIER.
- 2. GENERAL CONTRACTOR TO PROVIDE ALL CUTTING AND PATCHING OF EXISTING FLOORS, WALLS, CEILINGS, ETC. NECESSARY FOR INSTALLATION OF ELEVATOR (S).
- 3. GENERAL CONTRACTOR TO SUPPLY MISCELLANEOUS STEEL ANGLES, ANCHOR BOLTS, ETC. AS REQUIRED FOR PROPER INSTALLATION OF ELEVATOR (S).
- 4. GENERAL CONTRACTOR TO PROVIDE GROUTING OF DOOR SILLS AND HOISTWAY FRAMES.
- 5. GENERAL CONTRACTOR TO PAINT ALL EXPOSED SURFACES. REFER TO FINISH SCHEDULE.

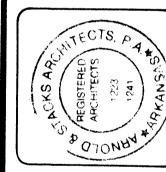
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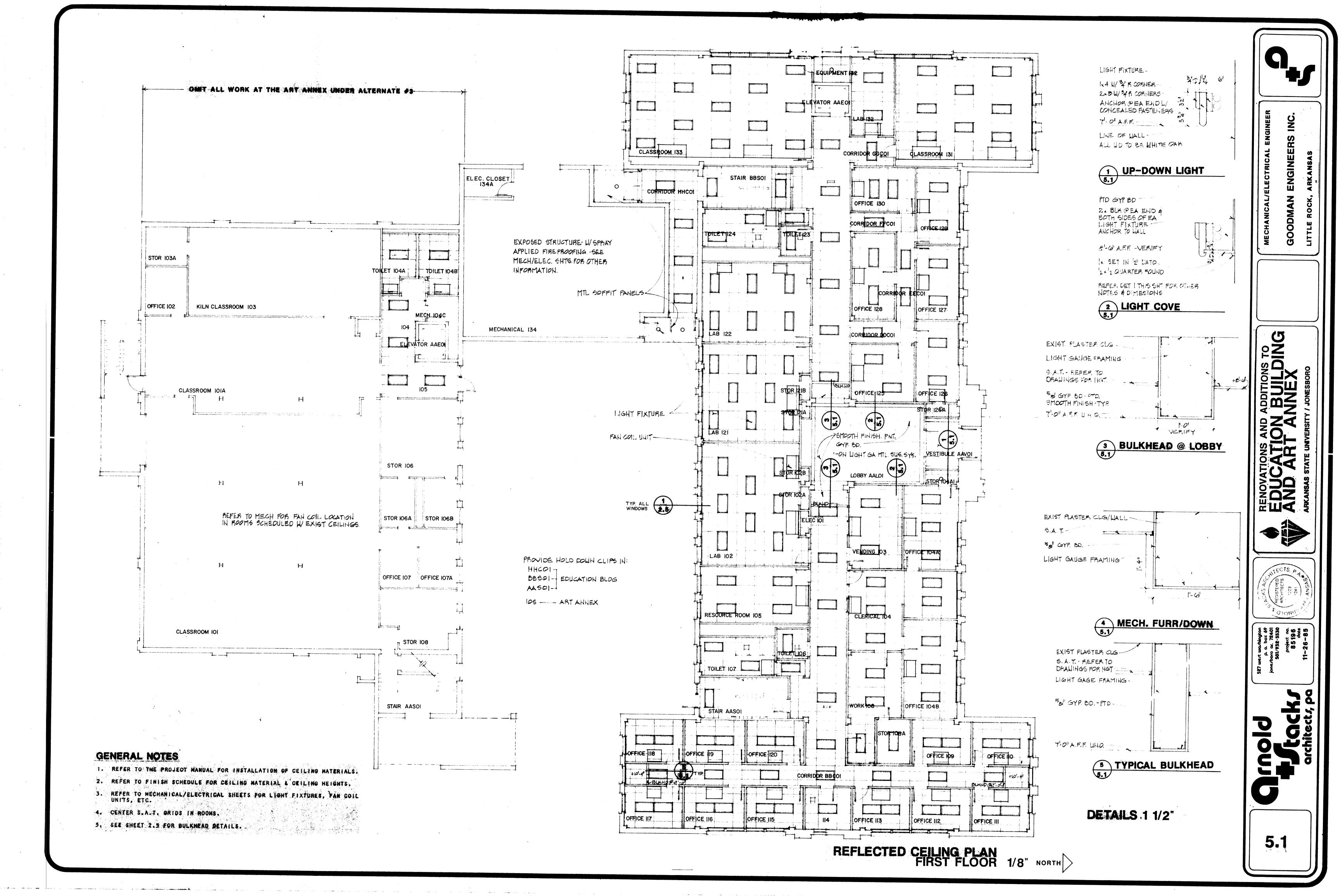
RENOVATIONS AND ADDITIONS TO EDUCATION BUILDIN AND ARKANSAS STATE UNIVERSITY / JONESBORO

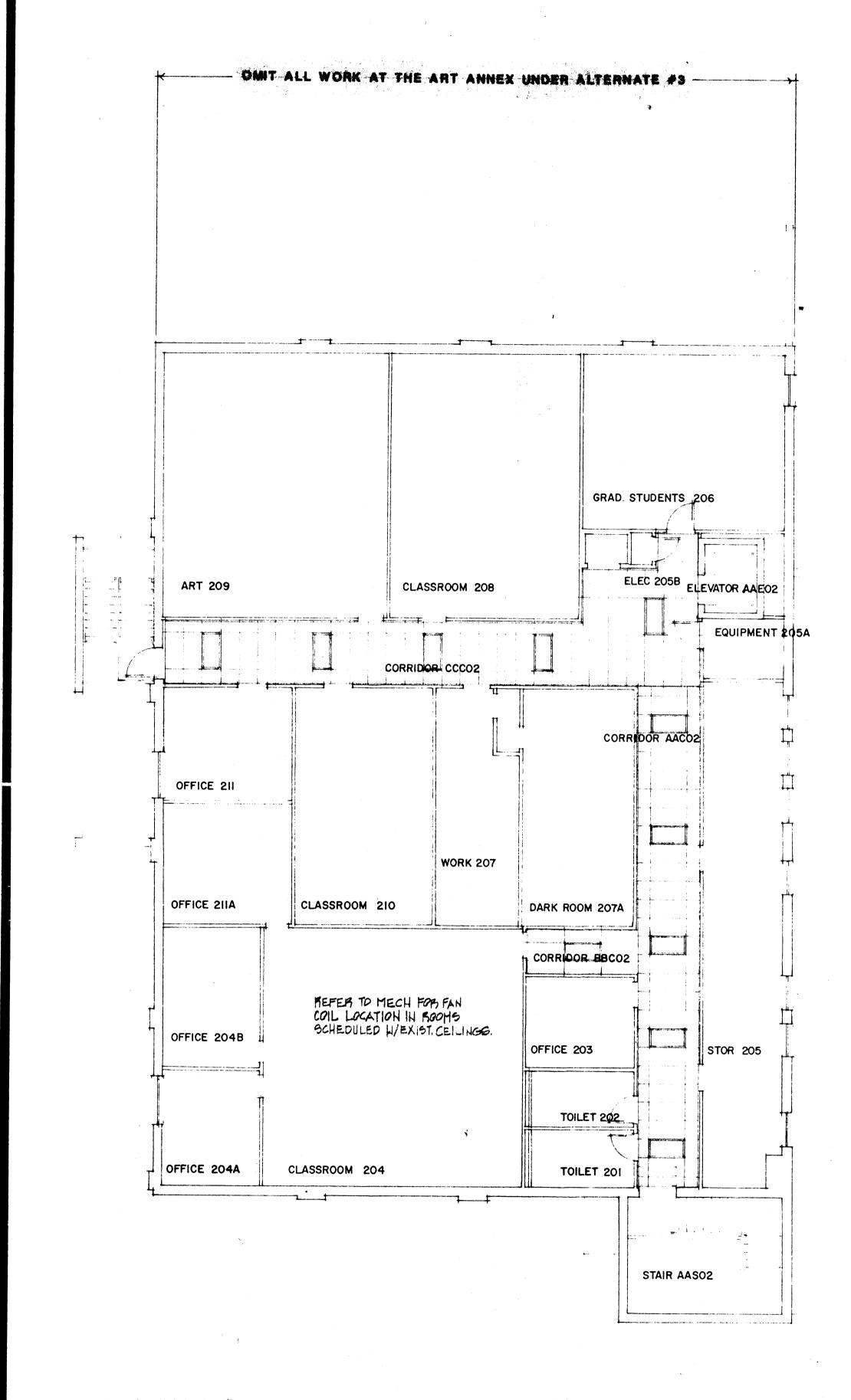




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GENERAL NOTES

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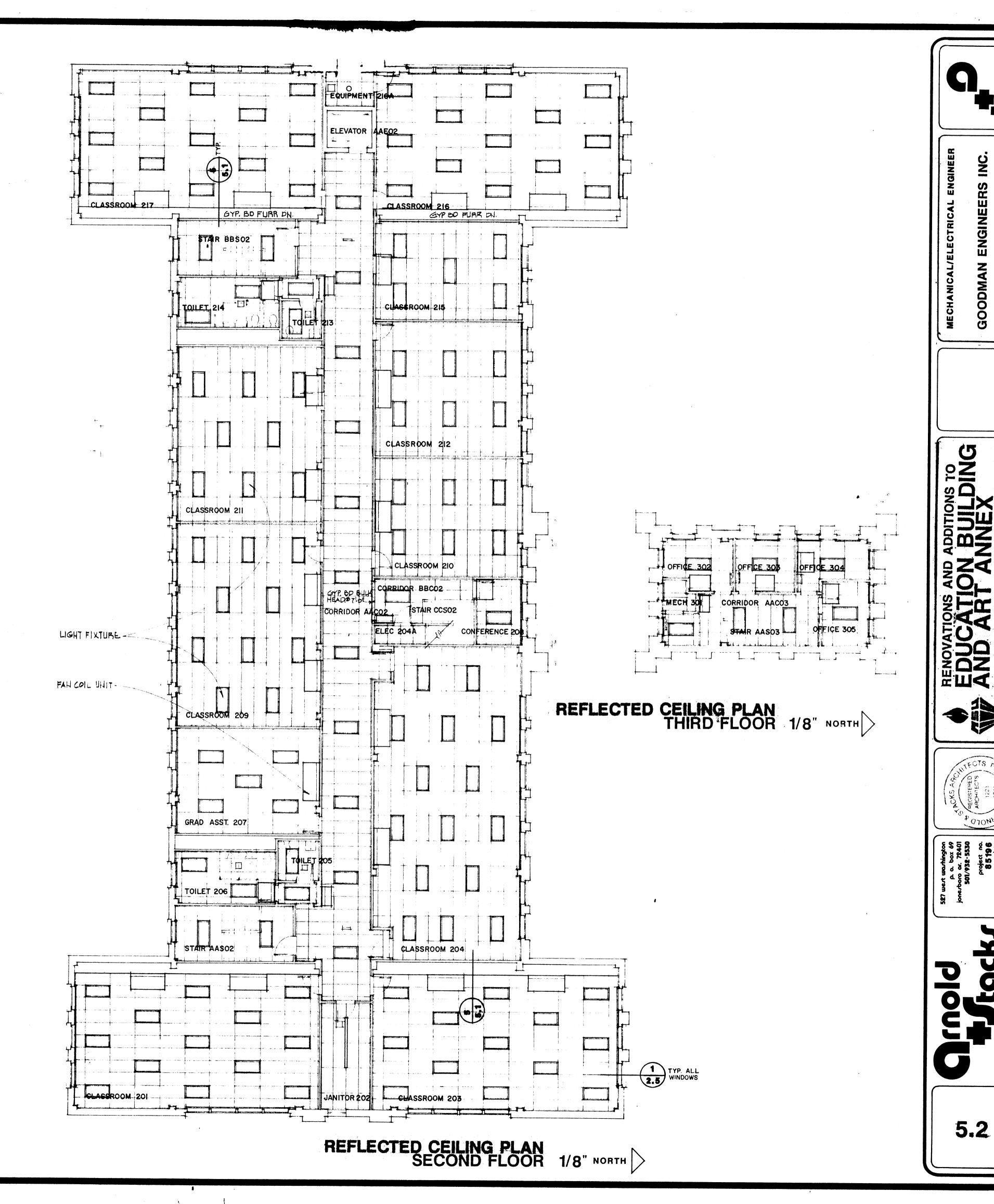
1. REFER TO THE PROJECT MANUAL FOR INSTALLATION OF CELLING MATERIALS.

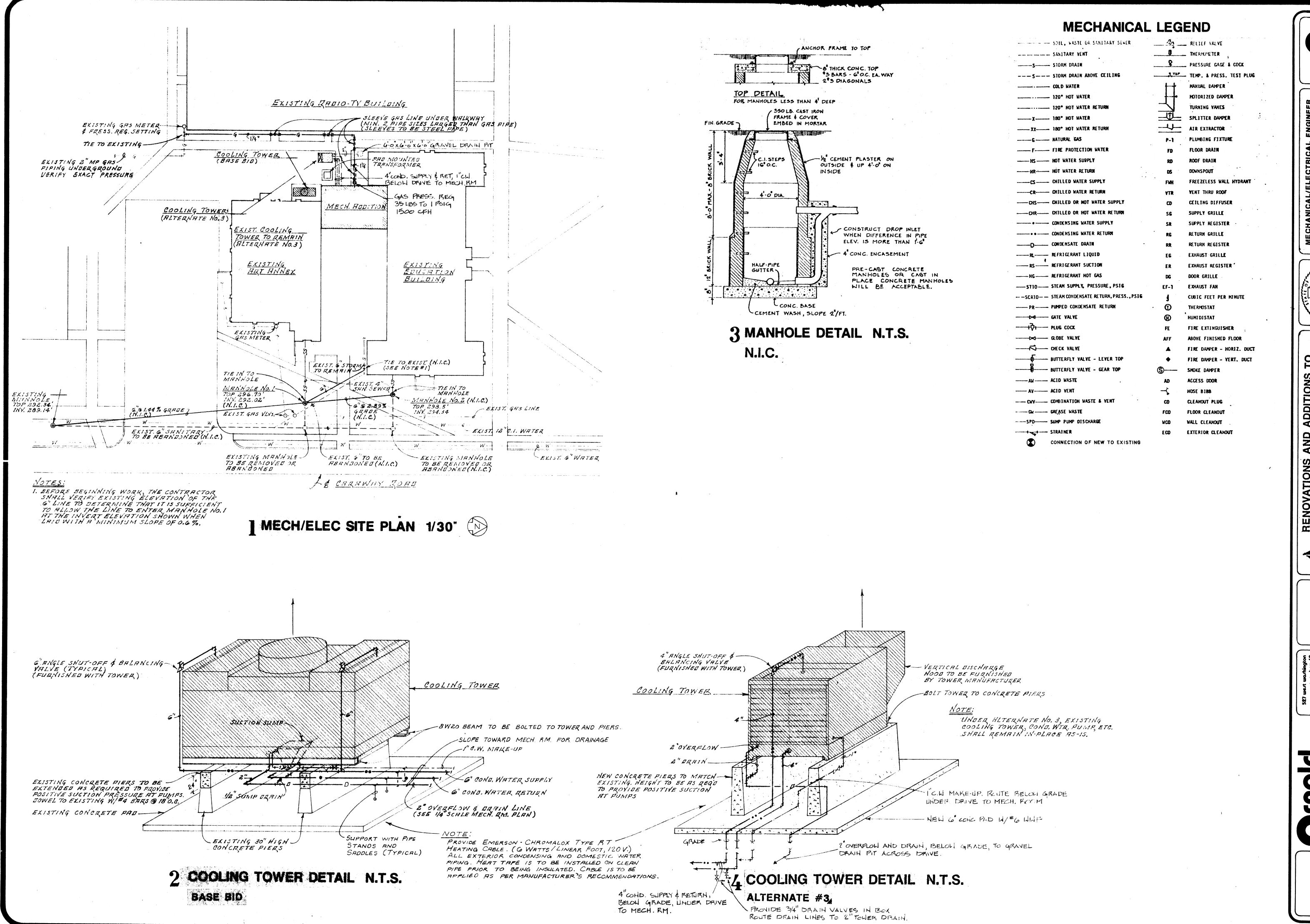
2. REFER TO FINISH SCHEDULE FOR CEILING MATERIAL L'CEILING HEIGHTS.

3. REFER TO MECHANIGAL/ELECTRICAL SHEETS FOR LIGHT FIXTURES, FAN COLL UNITS, EYC.

4. CENTER S.A.T. GRIDS IN ROOMS.

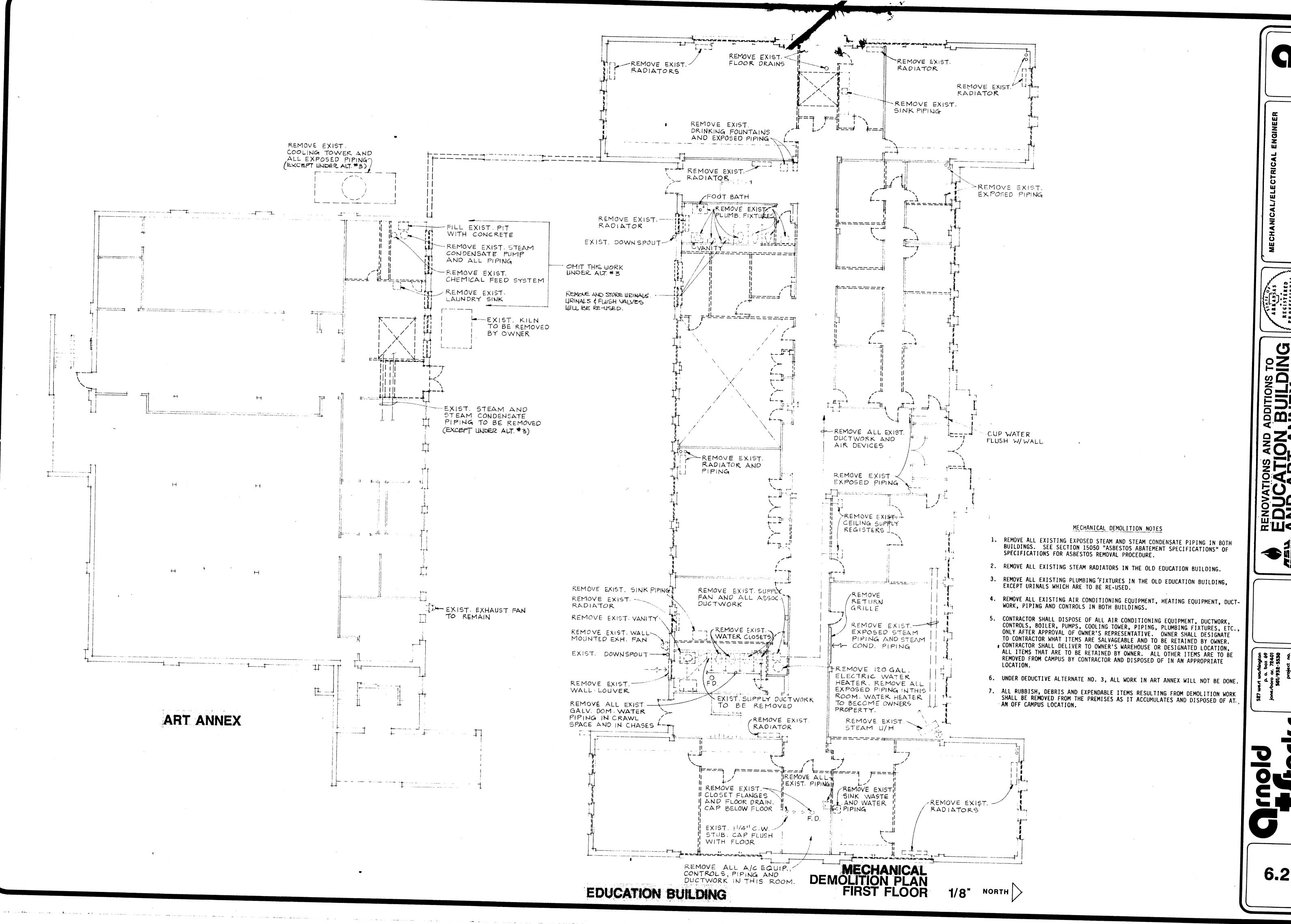
5. SEE SHEET 2.5 FOR BULKHEAD DETAILS.





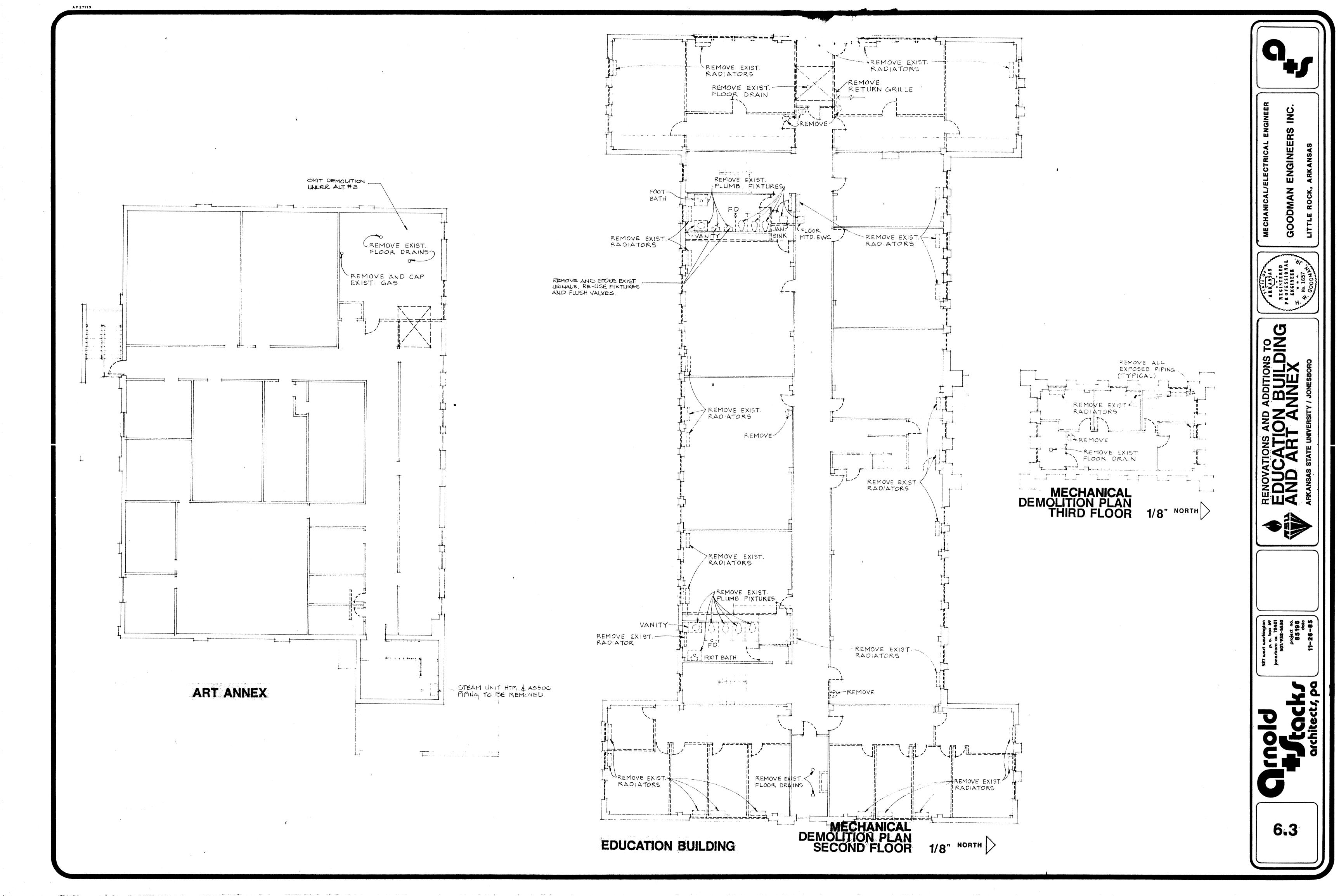
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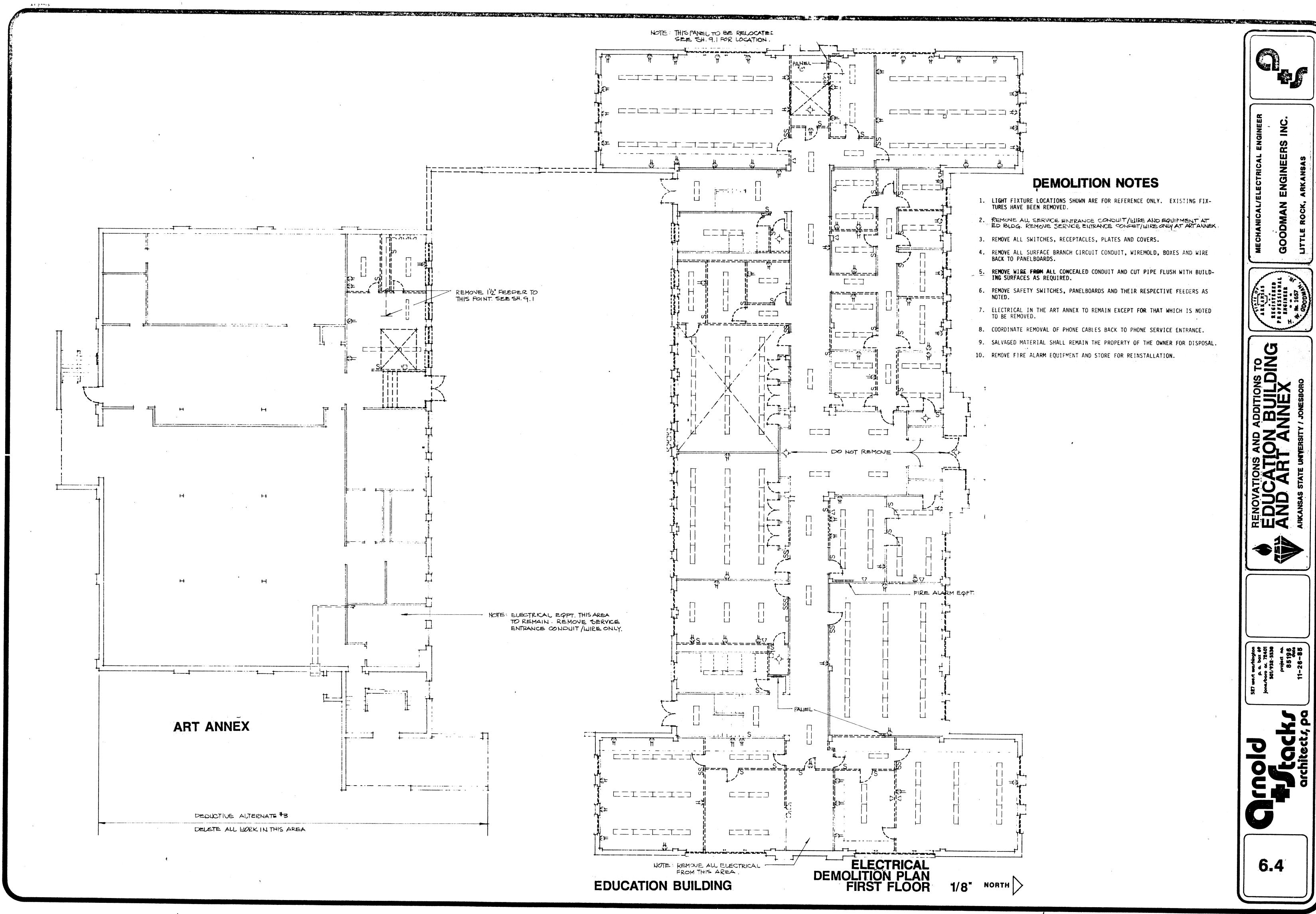
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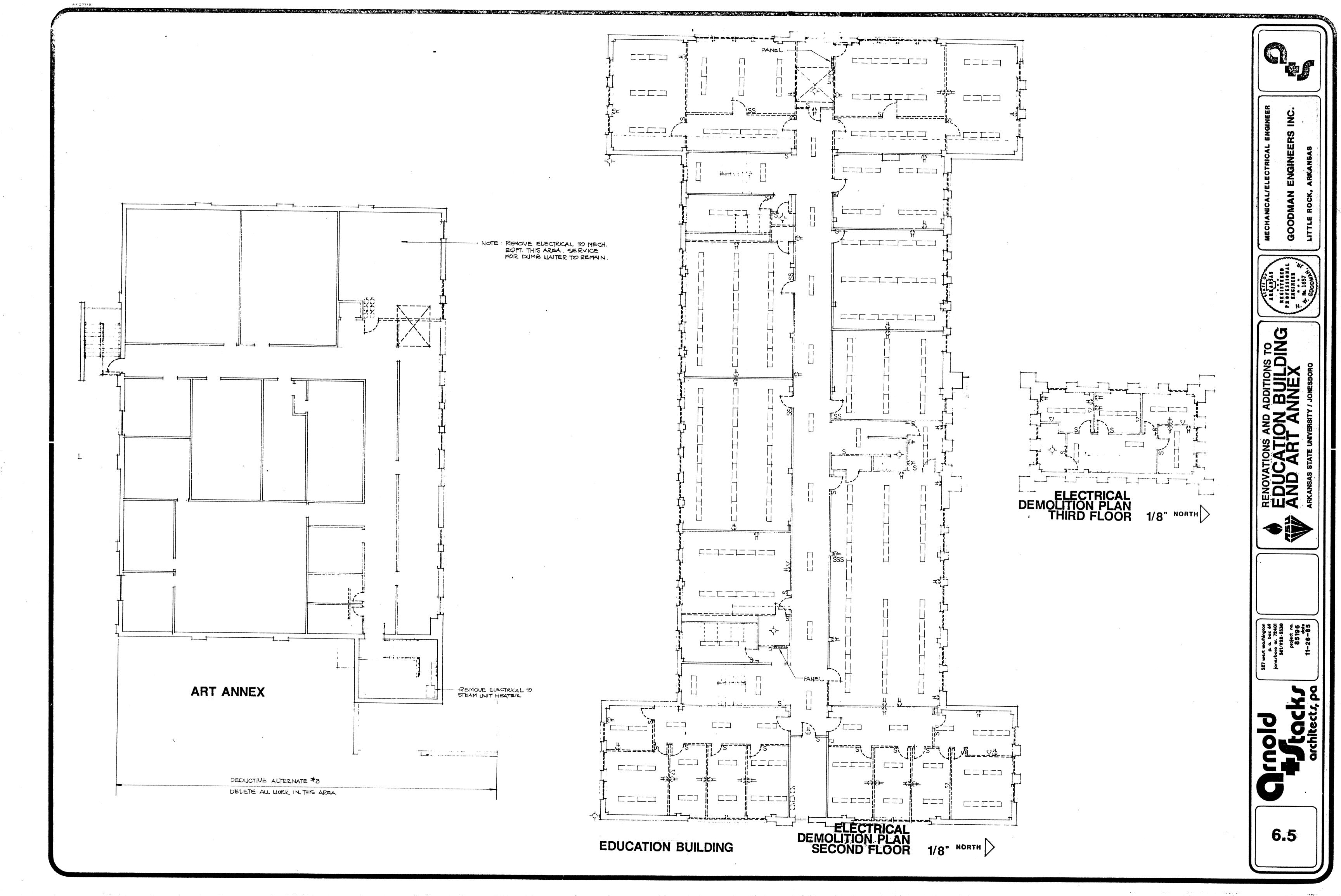


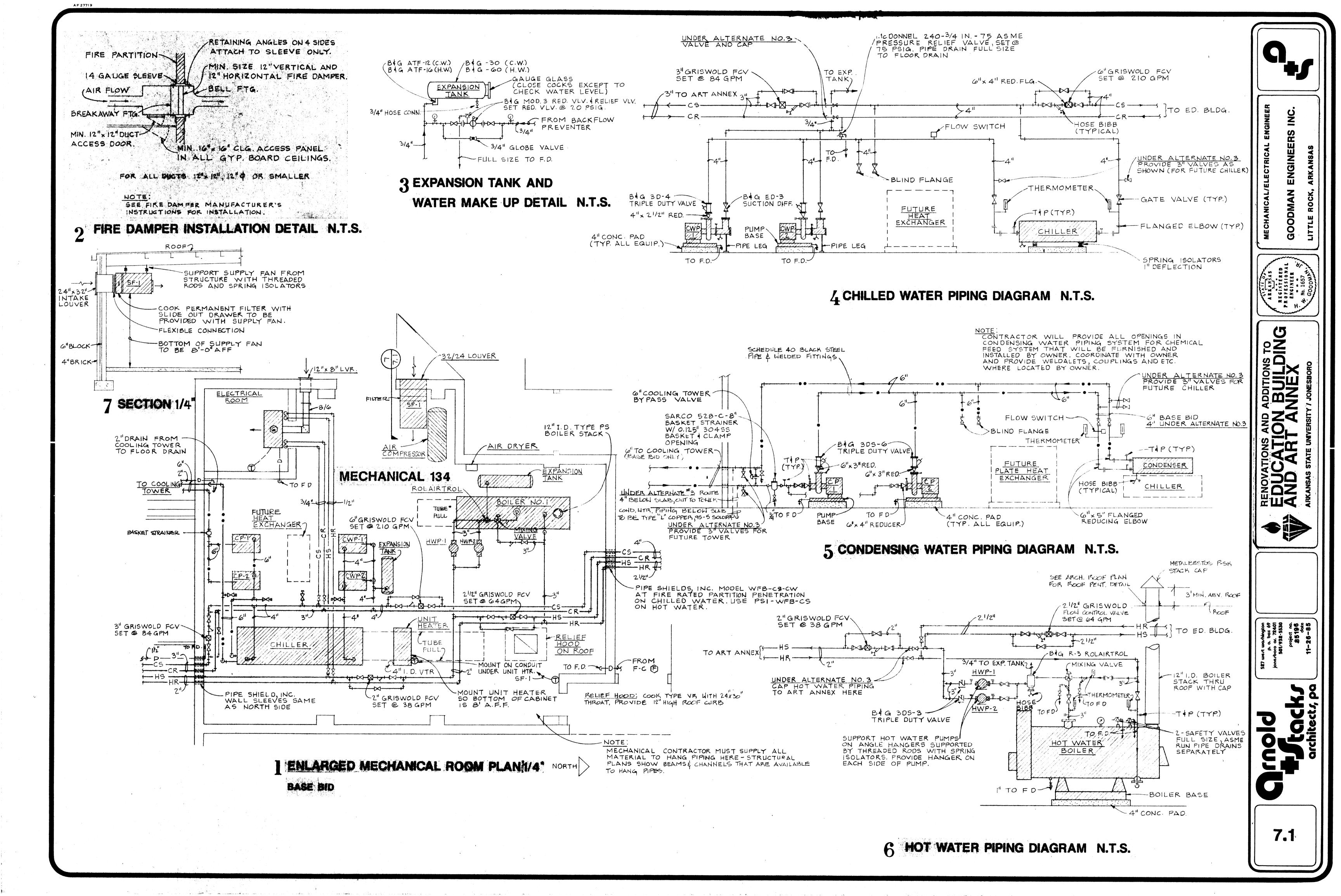
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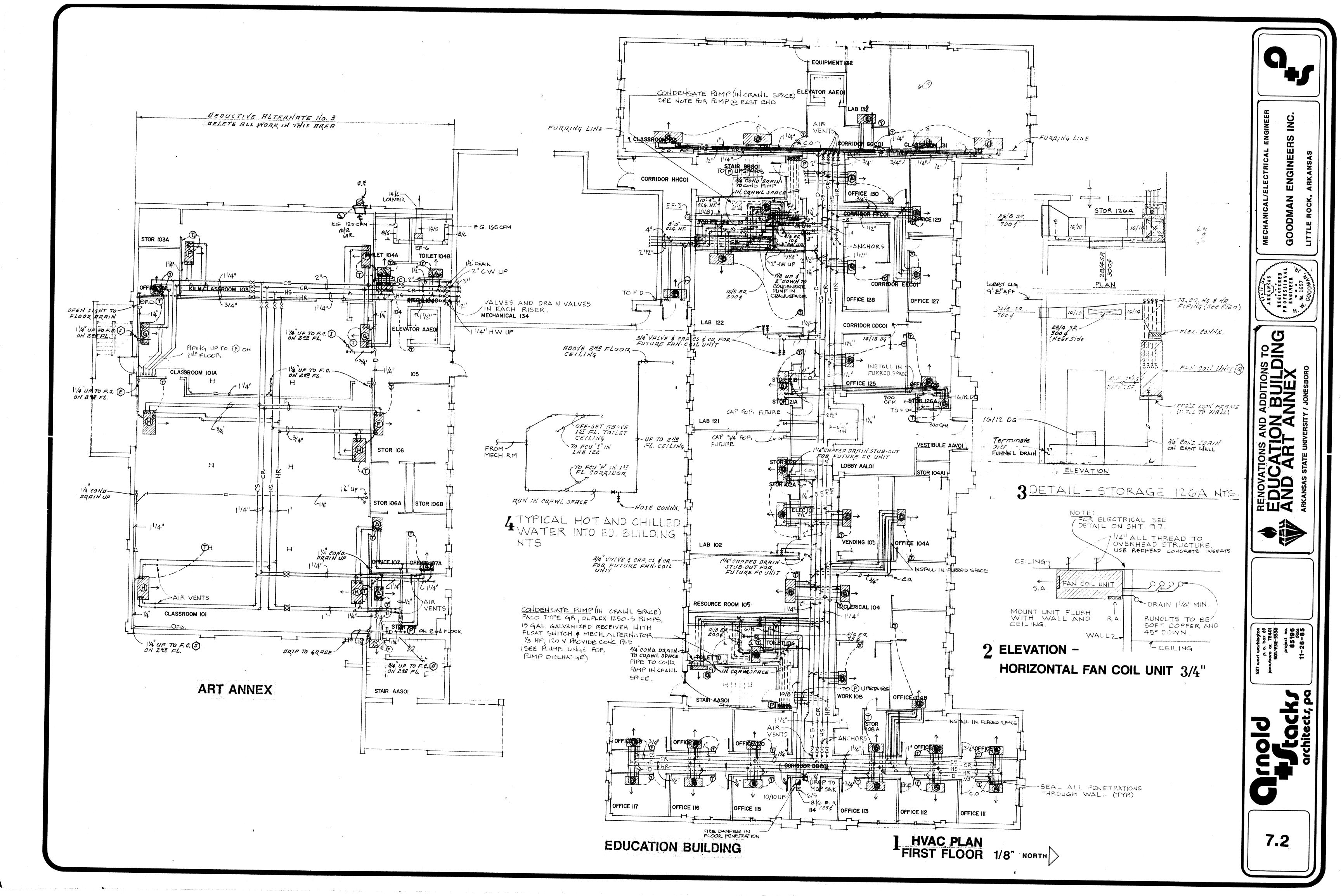


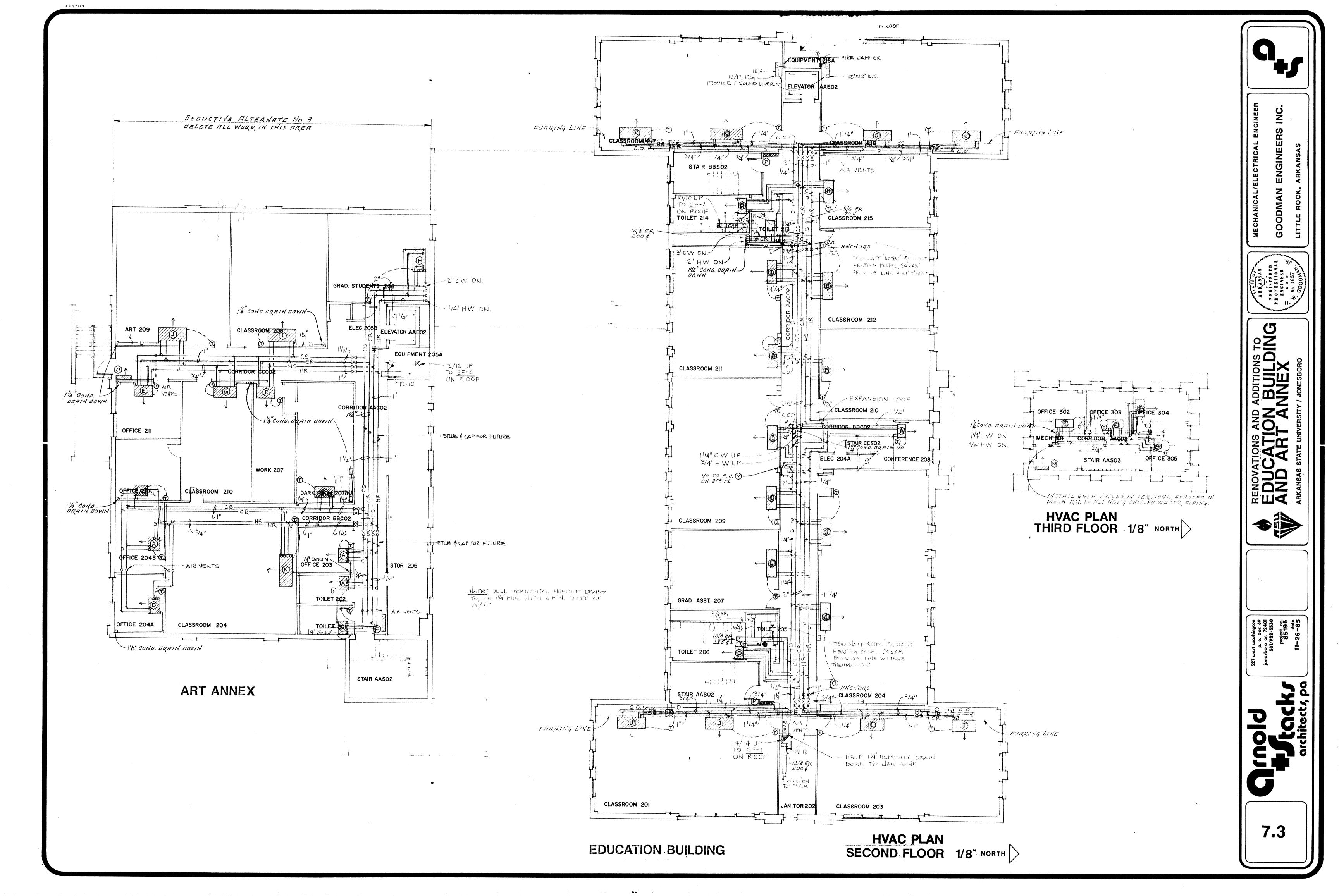








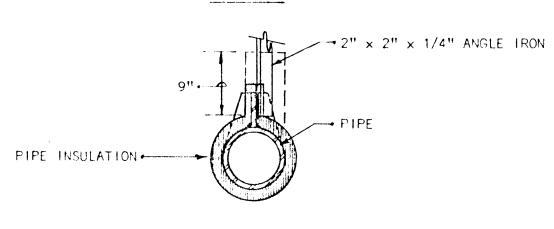




EXHAUST FAN. BIRDSCREEN RUSTPROOF SCREWS SILICONE . CAULK BACKDRAF" DAMPER FLASH CANTY INTO ROOF NSULATED VEXHAUST DUCT ROOF CURB SCREW DUCTWORK TO LIP IN CURB FLEX ELECT. CONDUIT TO RISE IN CURB (NOTCH SUPPORT FOR BACKDRAFT DAMPER)

**L** EXHAUST FAN DETAIL N.T.S.

## $\sim$ 4" $\times$ 4" $\times$ 3/8" STEEL PLATE. WELD ANGLE IRON TO PLATE WITH CONTINUOUS 1/4" WELD ON BOTH SIDES OF ANGLE IRON (TYPICAL) 5/8" REDHEAD (MIN.) CONCRETE STRUCTURE - ANCHOR BOLTS. 2 PER PLATE-4-2" × 2" × 1/4" ANGLE IRON (TYPICAL) →4" × 12" × 3/8" STEEL ANCHOR PLATE CONTINUOUS 1/4" WELD AROUND → 3/8" STEEL PLATE ON BOTH ANGLE IRON AND STEEL ANCHOR SIDES. CUT TO SUIT PIPE PLATE. WELD BOTH SIDES OF CURVATURE. ANCHOR PLATE TO PIPE. --ELEVATION → 2" × 2" × 1/4" ANGLE TRON



2 HORIZONTAL PIPE ANCHOR DETAIL N.T.S.

# **EQUIPMENT SCHEDULE**

#### CHILLER:

TRANE CGWC-D15E WATER COOLED PACKAGED CHILLER, 144.8 TONS. EVAPORATOR: 44° LCWT, 295 GPM, 19 FT. P.D. 85° EWT, 95° LWT, 450 GPM, 12.5 FT. P.D. 127.7 KW COMPRESSORS, 200 VOLTS/3ø. HOT GAS MUFFLERS, SOUND ATTENUATORS, SPRING ISOLATORS.

#### BOILER NO. 1:

SELLERS C-30-W IMMERSION FIRED HOT WATER BOILERS, 1255 MBH INPUT, 1004 MBH OUTPUT, 6694 EDR, 180° LWT, 11 HP COMBUSTION BLOWER MOTOR, 200 VOLTS, THREE-PHASÉ, SET RELIEF VALVE AT 60 PSI.

## CHILLED WATER PUMPS CWP-1 & 2:

PACO TYPE L CLOSE COUPLED, END SUCTION, 2512-3, 21 x 3", 295 GPM, 106 FT. THD, 67% EFFICIENCY, 15 HORSEPOWER MOTOR, 1750 RPM, 200 VOLTS/THREE PHASE, CST IRON BASE.

#### CONDENSER WATER PUMPS CP-1 & 2:

PACO TYPE L CLOSE COUPLED, END SUCTION 3095-5, 3" x 4", 450 GPM, 55 FT. THD, 80% EFFICIENCY, 10 HORSEPOWER MOTOR, 1750 RPM, 200 VOLTS, THREE PHASE, CAST

#### HOT WATER PUMPS HWP-1 & 2:

PACO TYPE VL IN-LINE CENTRIFUGAL, 3095-3, 3" x 3", 102 GPM, 85 FT. THD, 61% EFFICIENCY, 5 HORSEPOWER MOTOR, 1750 RPM, 200 VOLTS, THREE PHASE.

#### **COOLING TOWER:**

MARLEY DOUBLE FLOW, INDUCED DRAFT, NO. 221-121, 450 GPM, 95° EWT, 85° LWT, 80° WB, 15 HORSEPOWER MOTOR, 2 SPEED 1800/900 RPM, 200 VOLTS, THREE PHASE, 10 KW ELECTRIC BASIN HEATER.

#### GAS FIRED UNIT HEATER

REZNOR EEXL-170, 170 MBH INPUT, 132.6 MBH OUTPUT, 1800 CFM, 1/8 HORSEPOWER MOTOR, 115 VOLTS/ONE PHASE, 24 VOLT CONTROLS, POWER VENTER, HORIZONTAL AND VERTICAL LOUVERS.

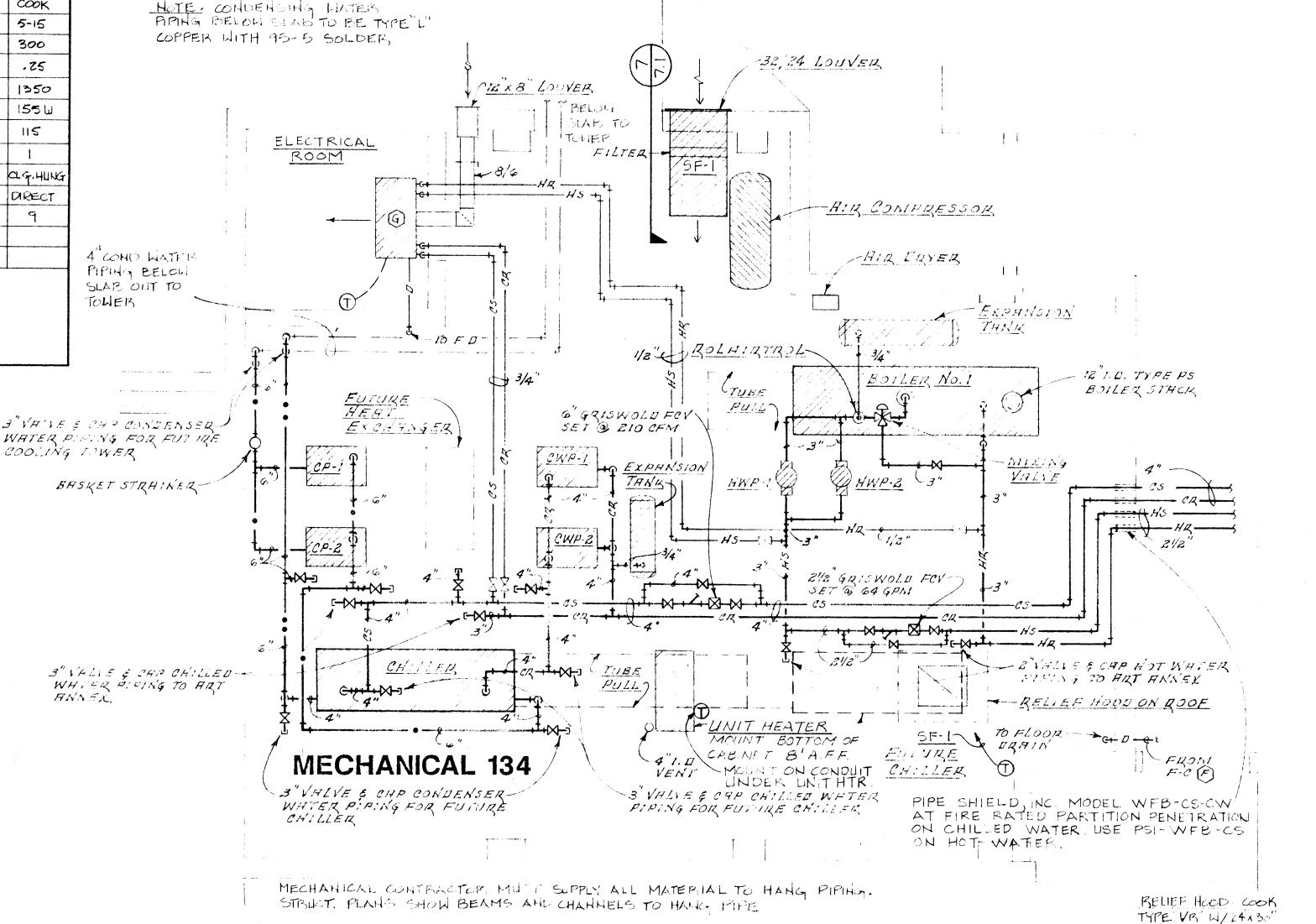
#### CHILLER (ALTERNATE #3)

TRANE CGWC-DIOR WATER COOLED PACKAGED CHILLER, 100.8 TONS. EVAPORATOR: 44° LWT, 210 GPM, 9.2 FT. P.D. CONDENSER: 85° EWT, 95° LWT, 300 GPM, 18 FT. P.D. ELECTRICAL: 87 KW COMPRESSORS, 200 VOLTS, THREE-PHASE ACCESSORIES: HOT GAS MUFFLERS, SOUND ATTENUATORS, SPRING ISOLATORS.

#### COOLING TOWER (ALTERNATE #3)

THROAT PROVIDE

MARLEY SUPER AQUATOWER MODEL 47125, 303 GPM, 95° EWT, 85° LWT, 80° WB, 10 HP MOTOR, 2 SPEED MOTOR, 200V/3ø. 5 KW BASIN HEATER.



MANUAL AIR VENT TYPICAL P AND T TEST POINT TYPICAL - UNION TYPICAL 3-WAY CONTROL VALVES BALANCING VALVE TYPICAL 3/4" DRAIN VALVE WITH HOSE NIPPLE TYPICAL

(3) 3-WAY MIXING VALVE

**FAN SCHEDULE** 

COOK

DB-15

2800 1400

.25

436 218

CLG. HUNG CURB

BELT BELT

4,6,7 1,8,10

(8) 12" HIGH ROOF CLIRES

(9) FSC CONTROLLER

(10) BIRDSCREEN

6 FILTER

COOK

270

.25

950

16

115

CURB

BELT

1,8,10

HEATING COIL

COOLING COIL

? 2-SPEED MOTOR (2 WINDING)

120CZB 100CZB

915

.40

1200

115

COOK

600

.17

830

115

1,8,10

120CZB 5-15

100WZB 120CZB

.17

830

16

115

CURB

BELT

1,8,10

.25

950

115

WALL

BELT

COOK

300

.25

1350

115

TOWER

COOLING TOWER

CURB CLG. HUNG

BELT DIRECT

(1) 2 GATE VALVES

FAN NUMBER MANUFACTURER

MODEL NUMBER

FAN RPM

MOTOR HP

VOLTAGE

MOUNTING

ACCESSORIES

INTERLOCK WITH

(1) BACKDRAFT DAMPER

(3) MAGNETIC STARTER

(2) MANUAL STARTER

(4) THERMOSTAT

(5) FIRESTAT

PHASE

DRIVE

STATIC PRESSURE, IN.

(5) HALANCING VALVE

3 WATER COIL AUTOMATIC CONTROL N.T.S.

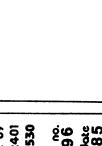
GATE VALVE TYPICAL

ENLARGED MECHANICAL ROOM PLAN 1/4" NORTH

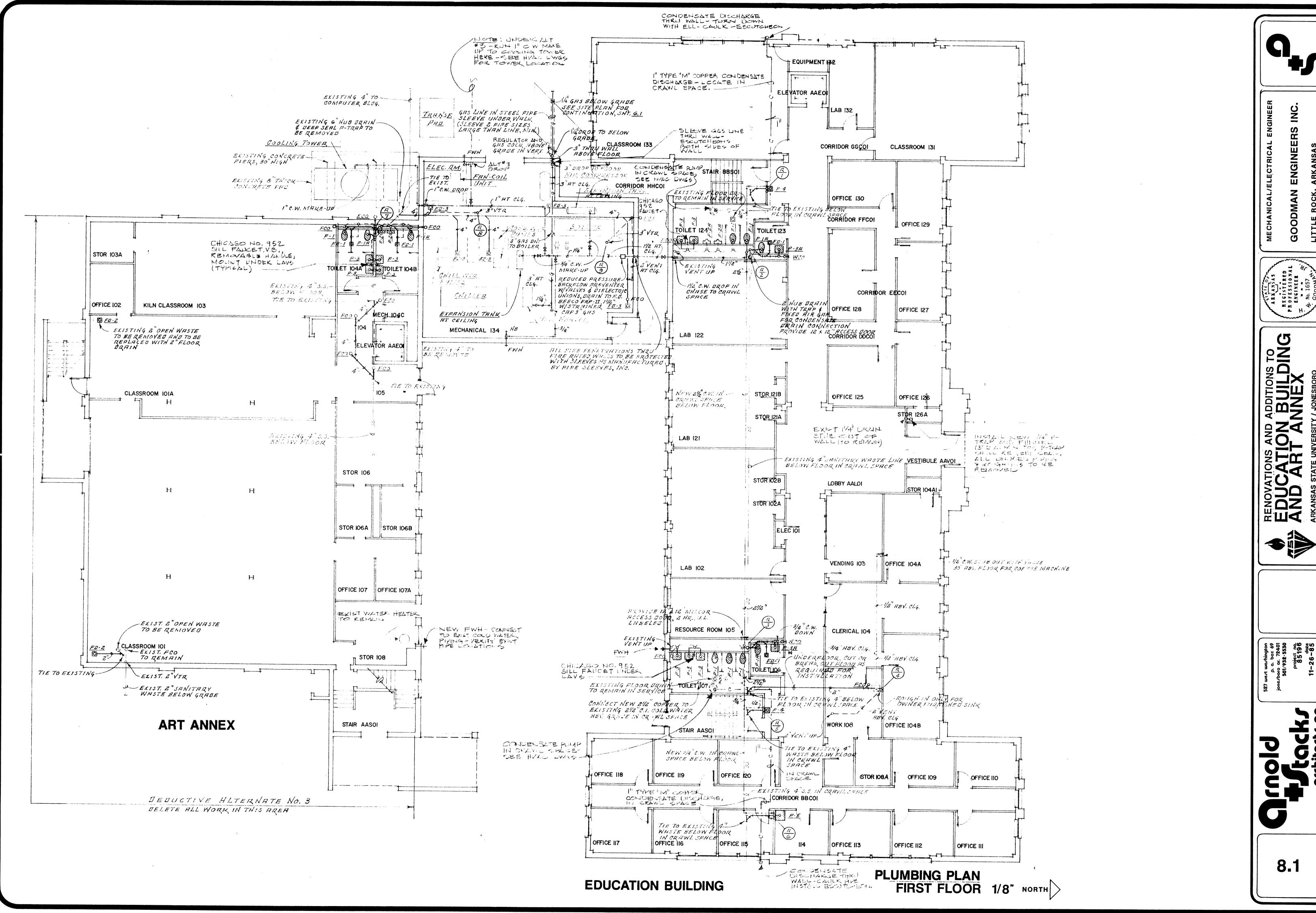
**ALTERNATE #3** 



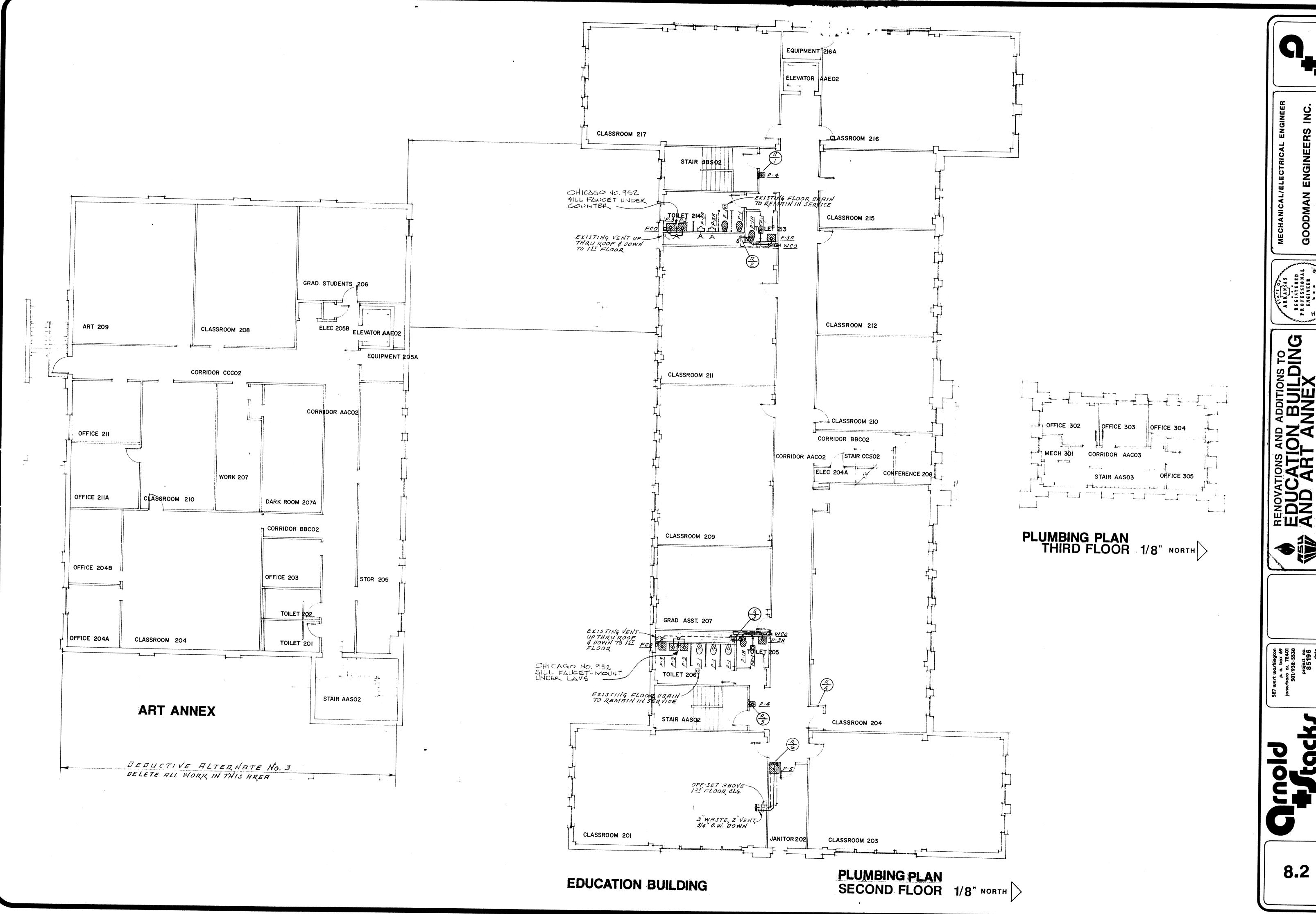


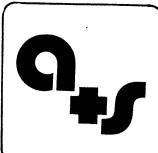


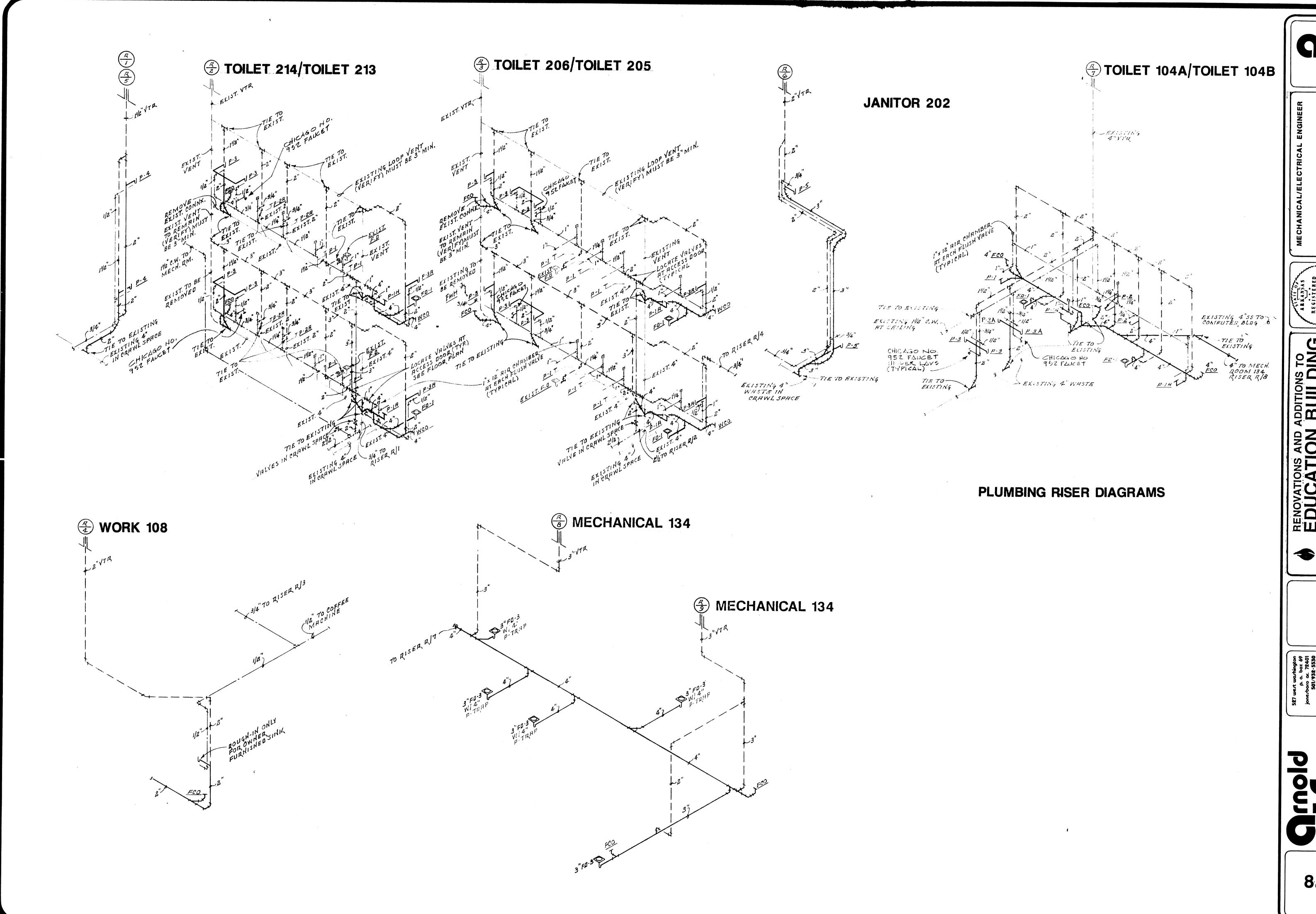
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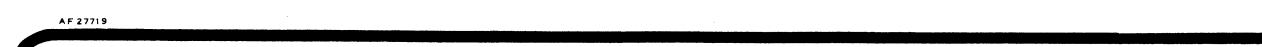


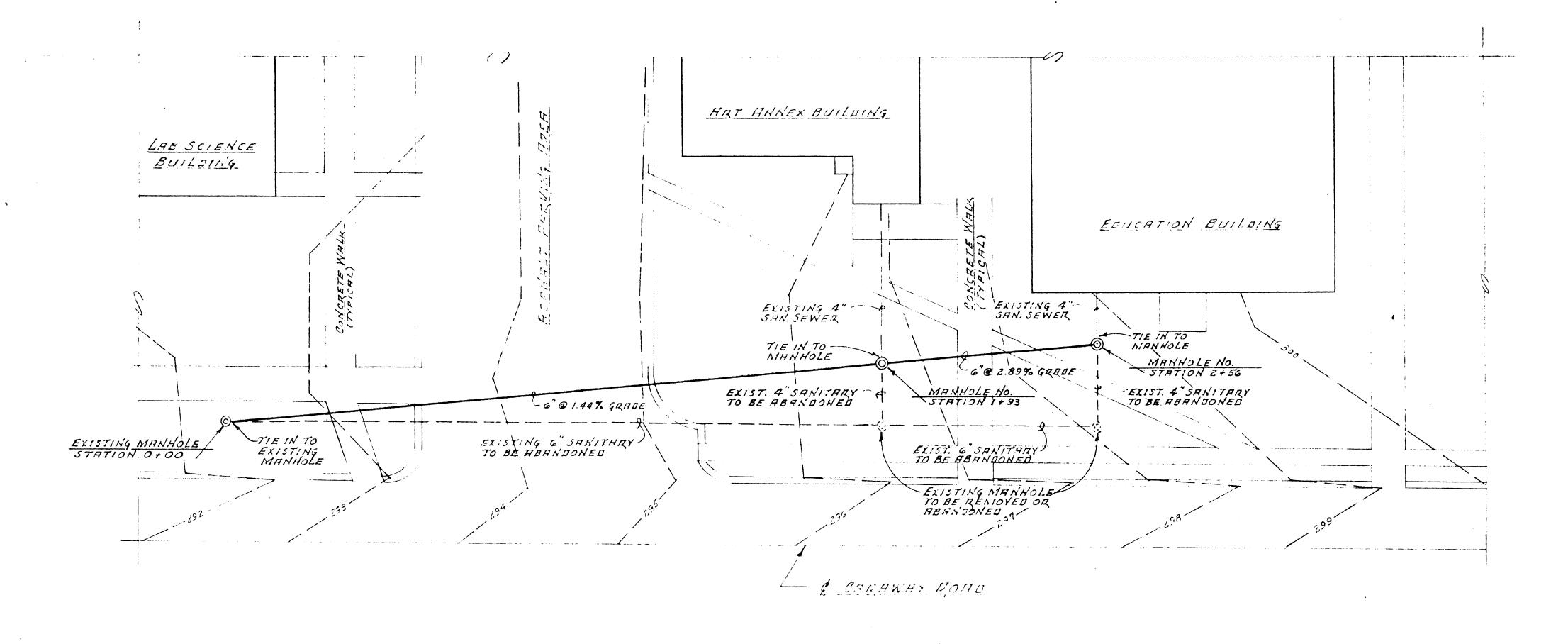
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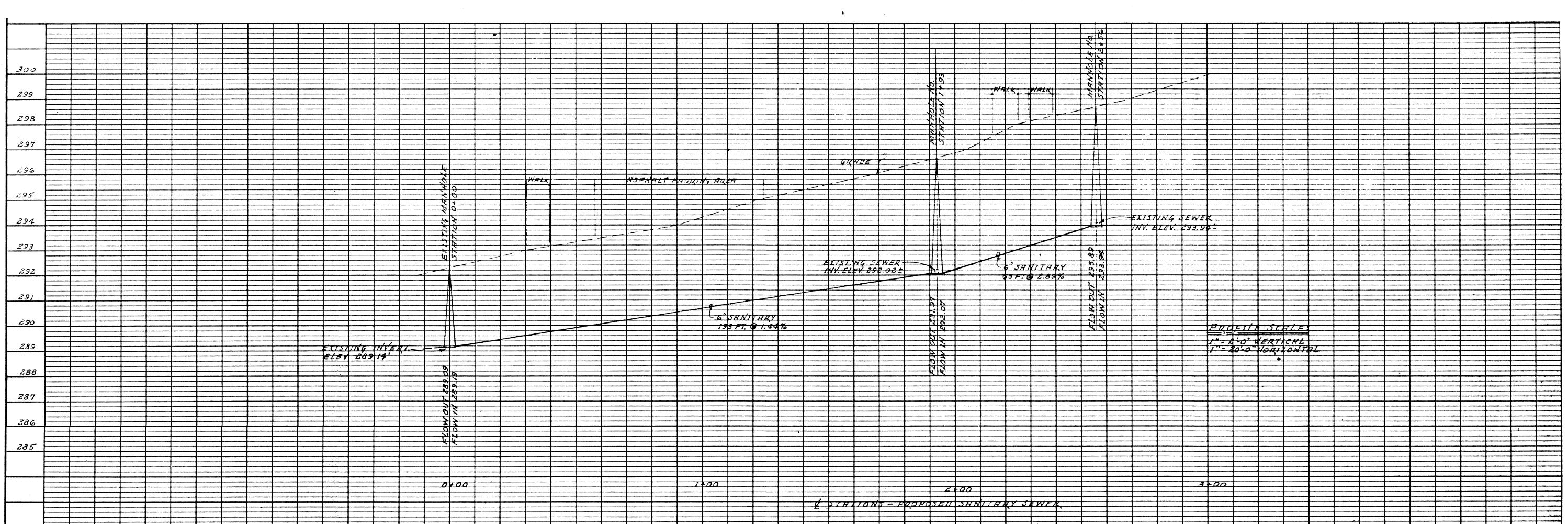




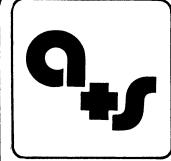




# PLAN - SANITARY SEWER 1/20" N.I.C.



SEWER PROFILE N.I.C.



GOODMAN ENGINEERS IN

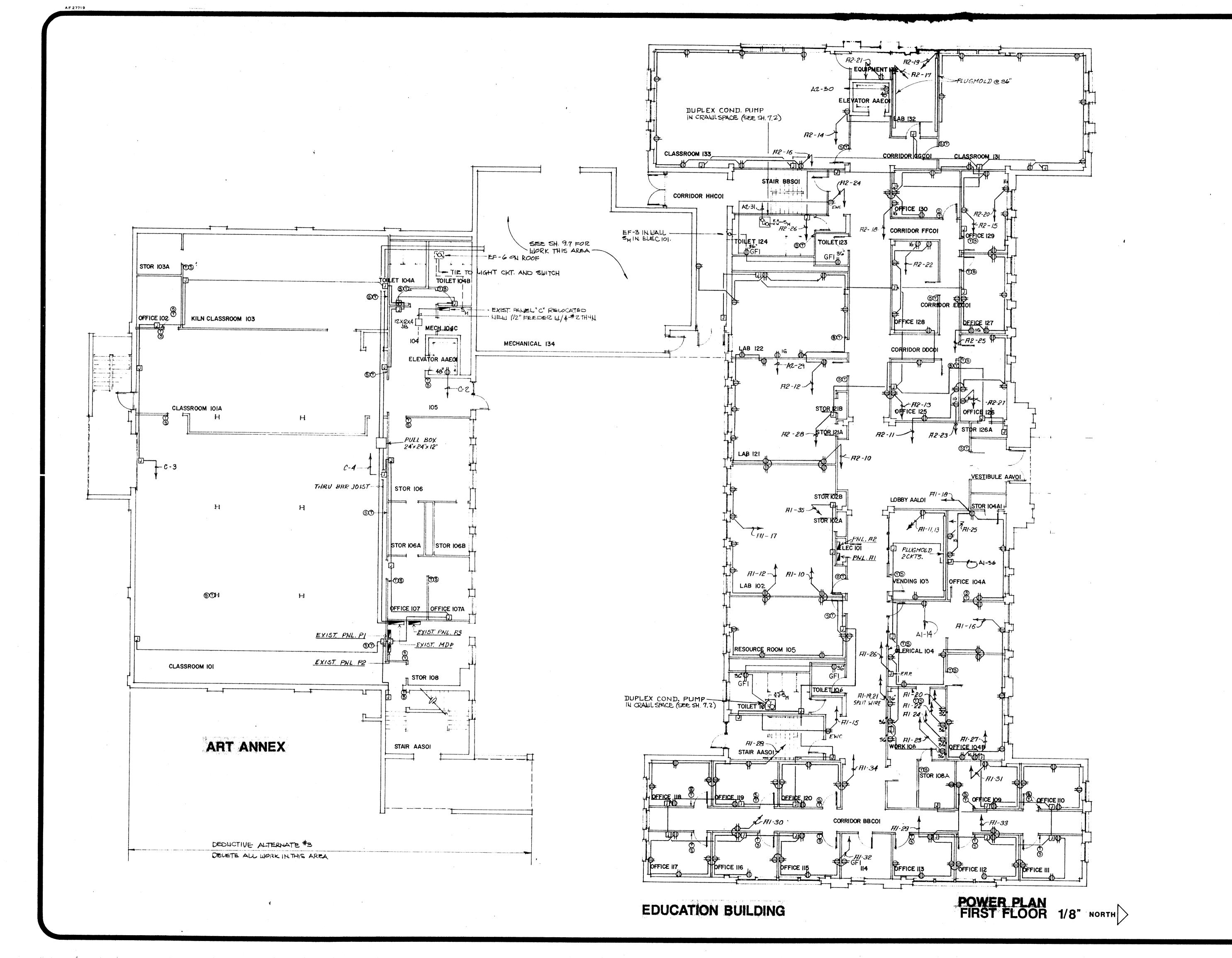


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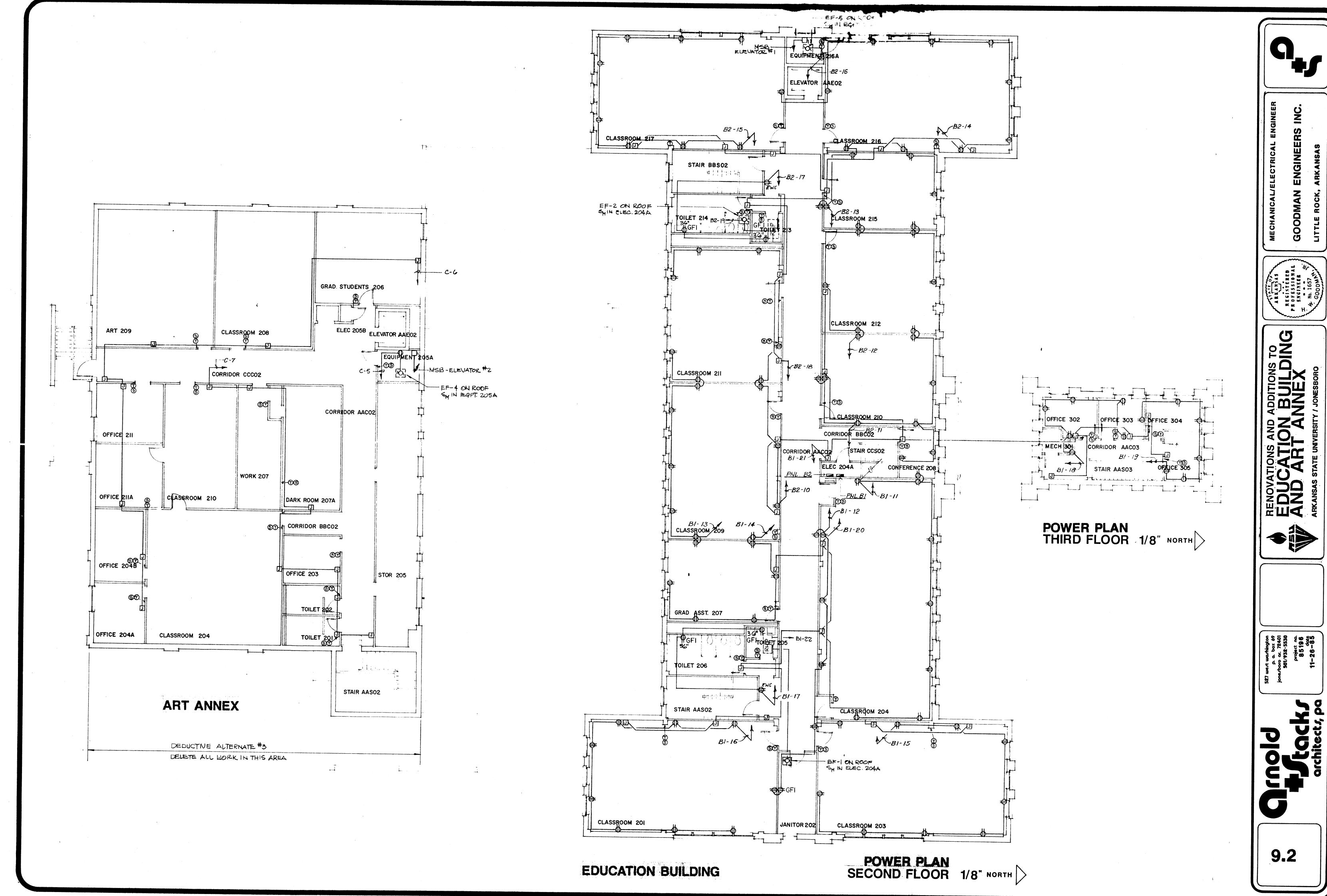
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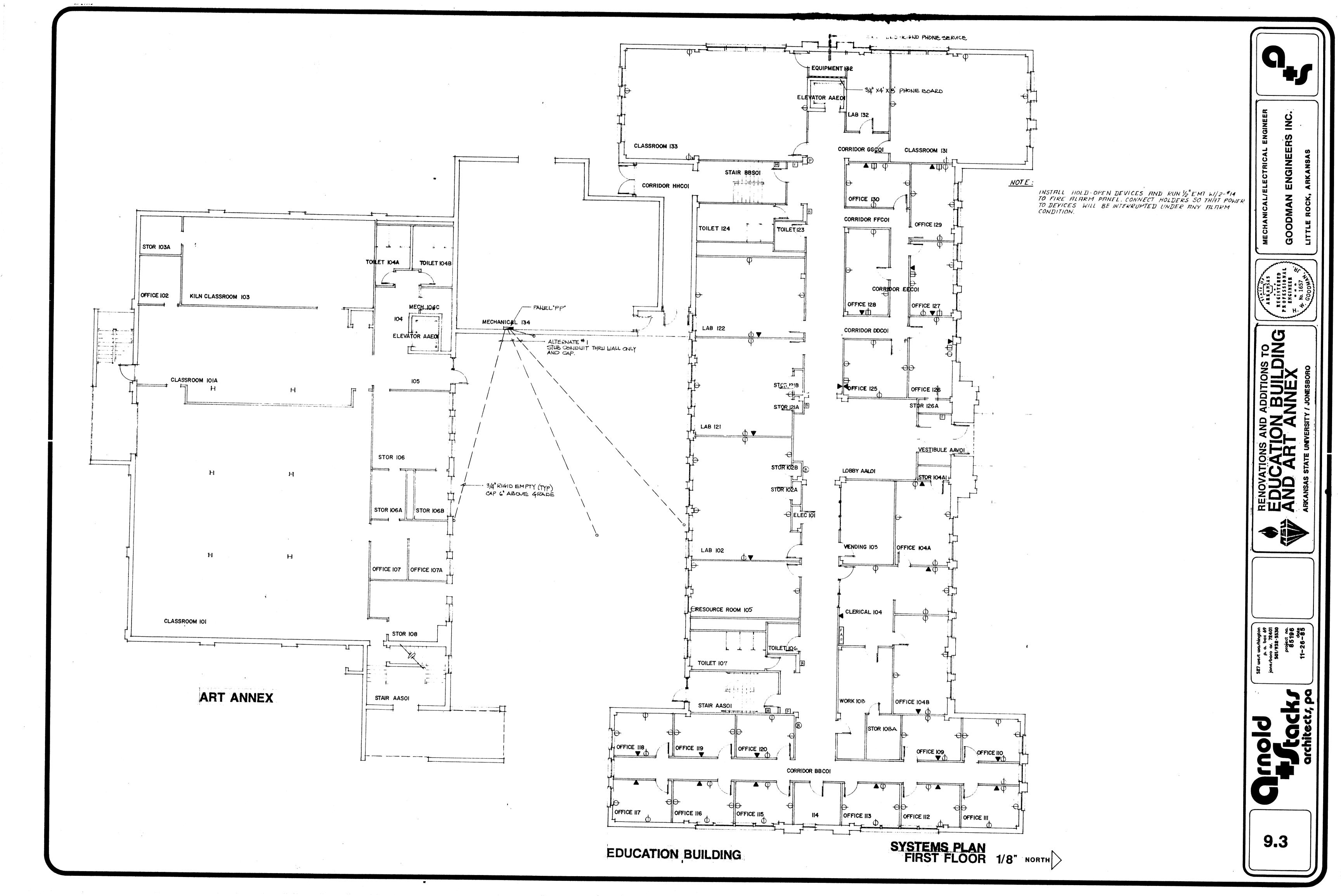
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EDUCATION BUILD
AND ART ANNEX

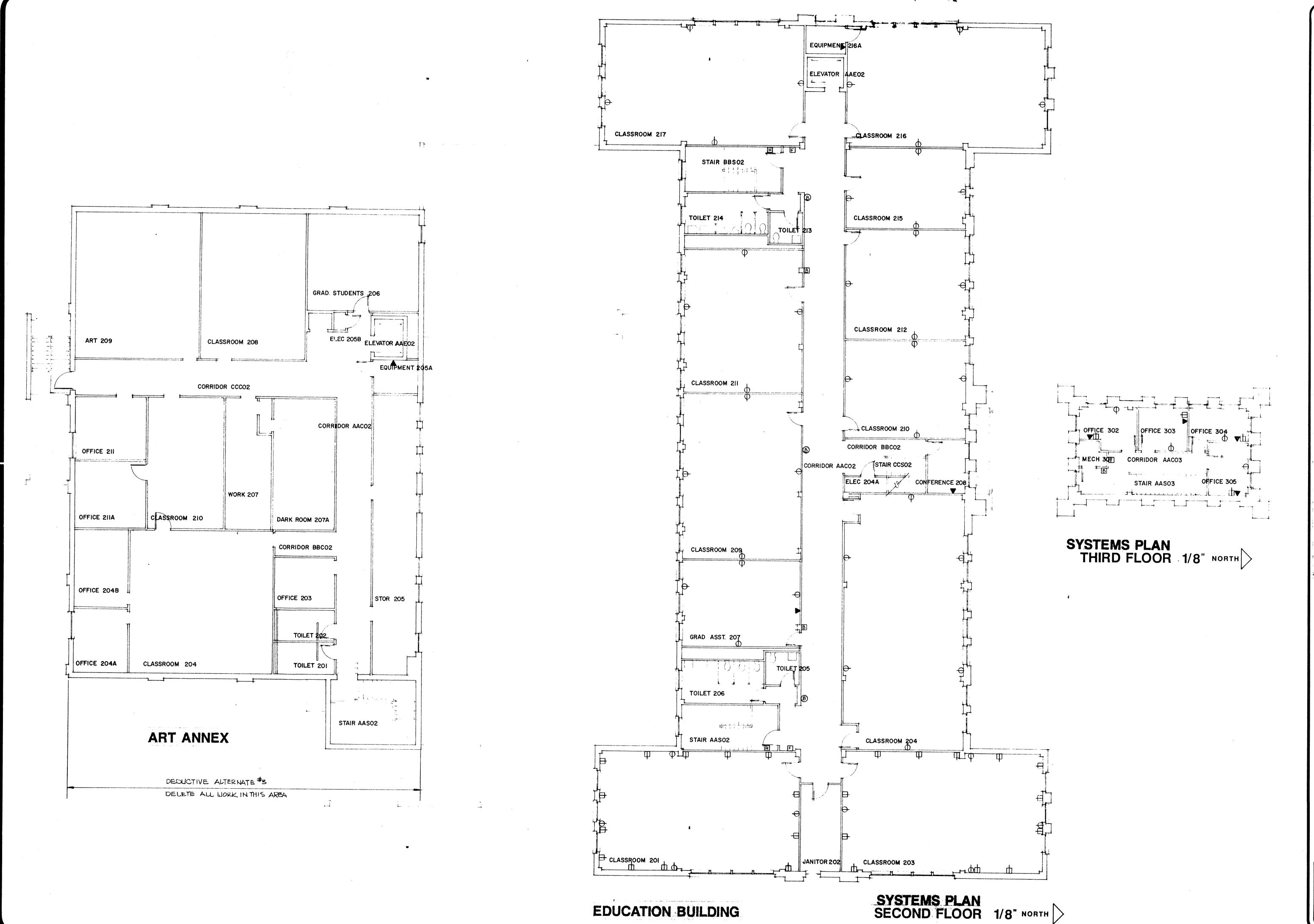


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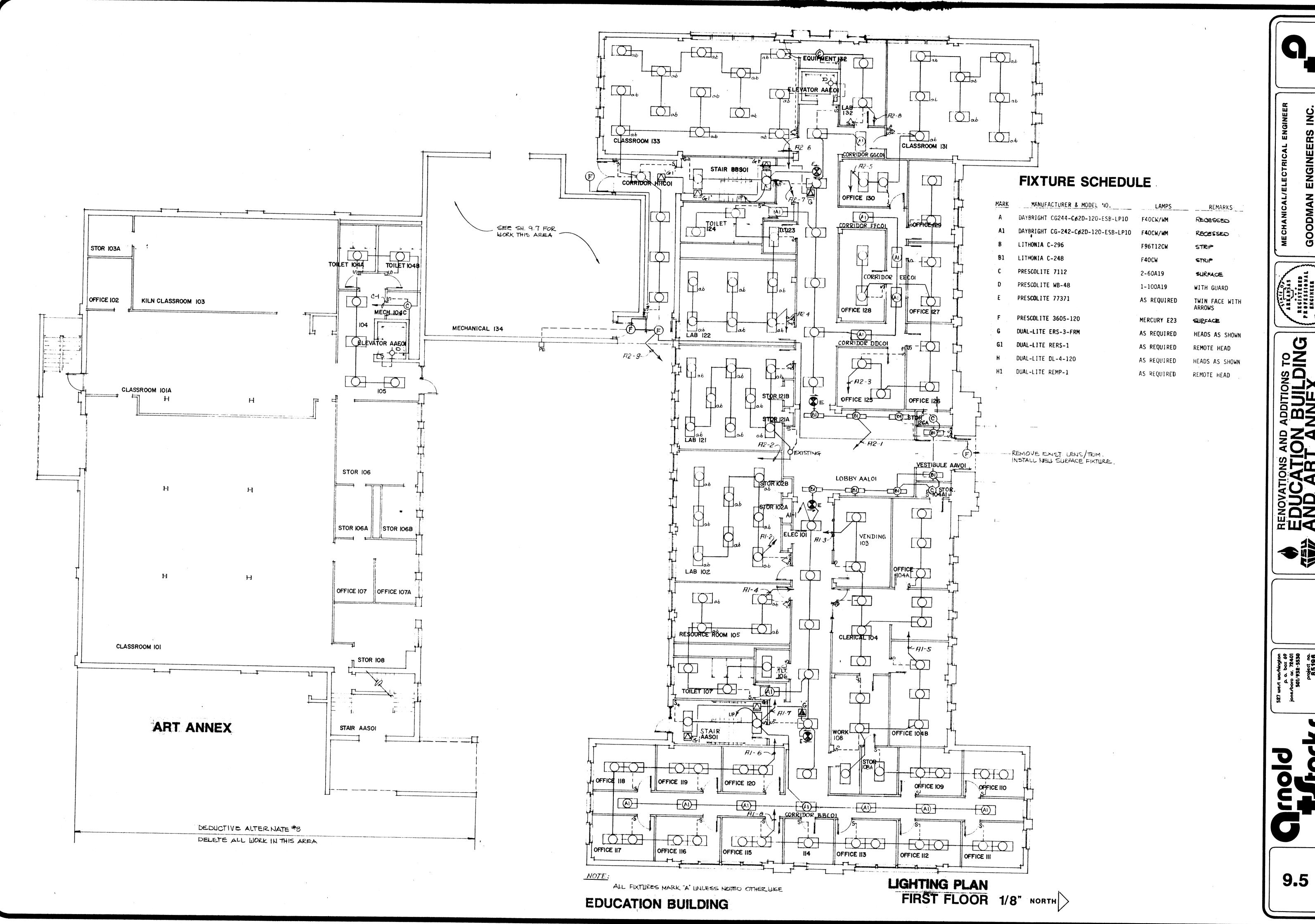




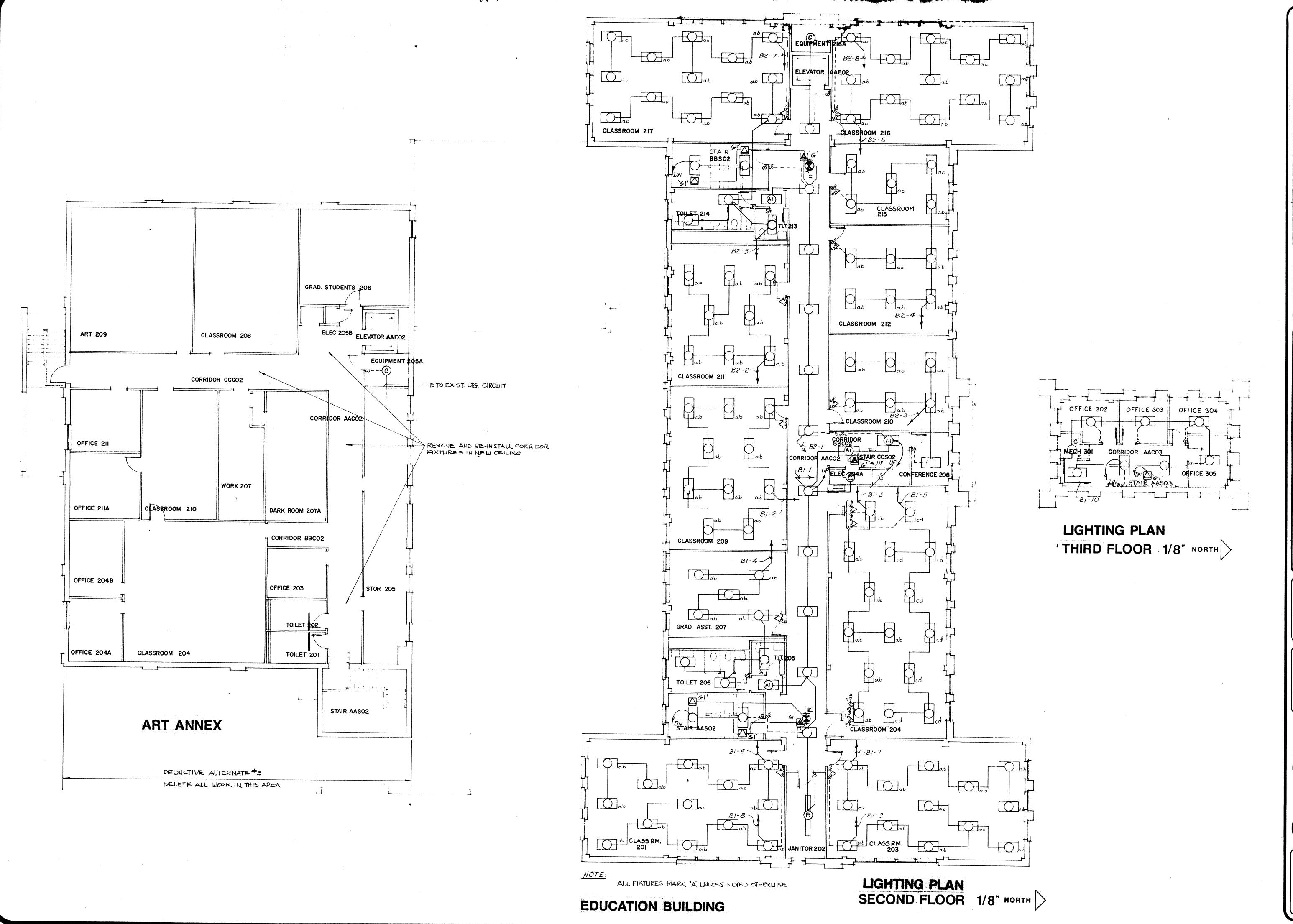
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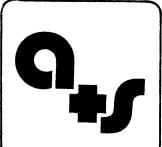






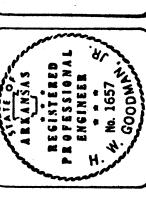
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IN ENGINEERS INC.

GOODMAN ENGIN

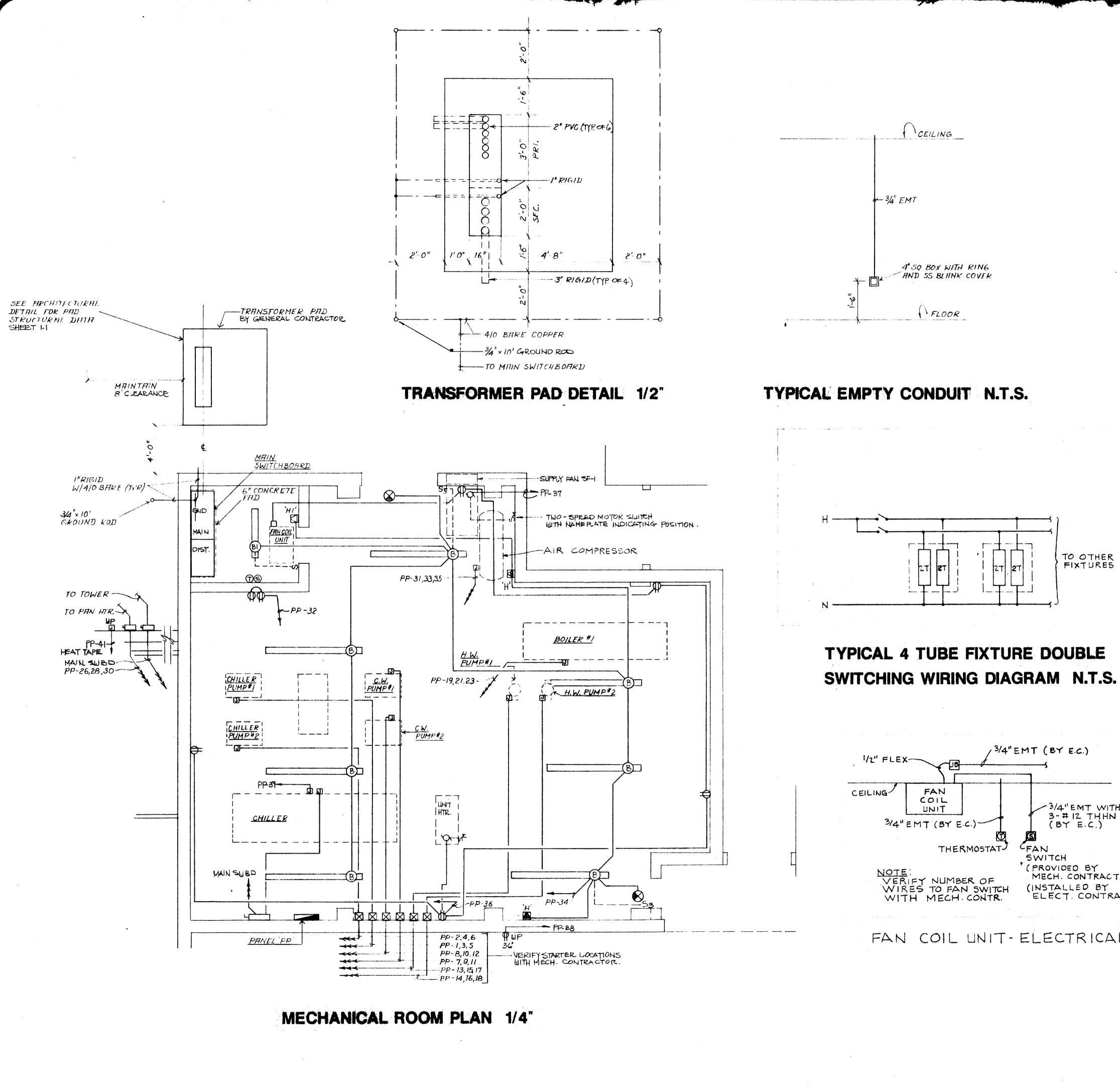


NS AND ADDITIONS TO TION BUILDING RT ANNEX

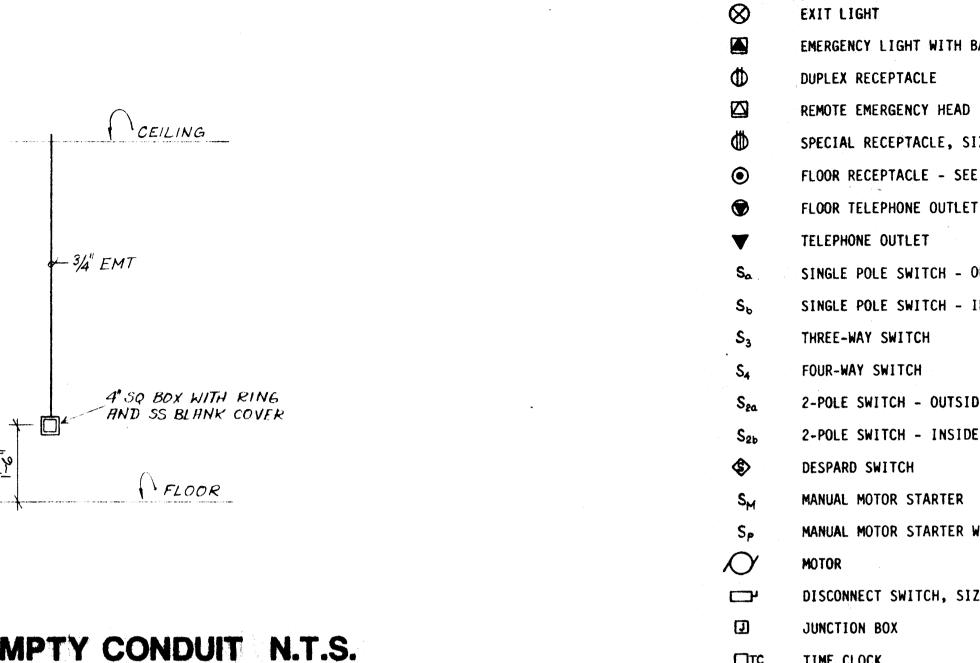
REN REN ARKAN

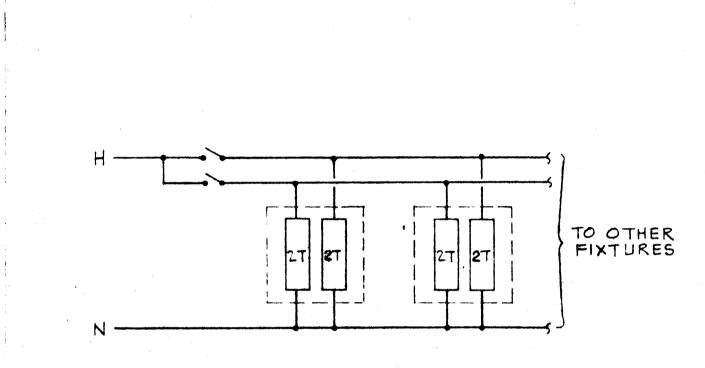
501/932-5530 project no. 85196 dote 11-26-85

Jrnold Trocks architects, pa

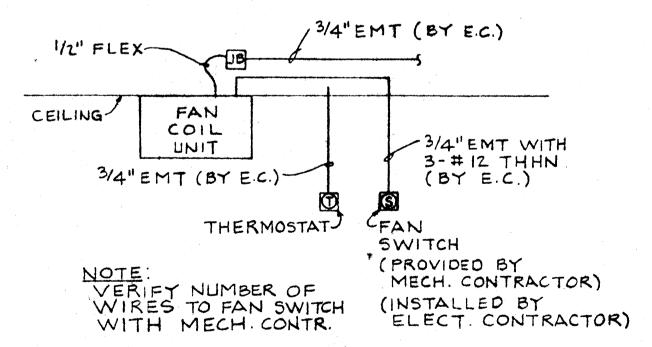


AF 27719





# TYPICAL 4 TUBE FIXTURE DOUBLE



FAN COIL UNIT-ELECTRICAL NTS

ELECTRICAL LEGEND

FLUORESCENT FIXTURE, TYPE AND SWITCHING INDICATED BRACKET MOUNTED INCANDESCENT FIXTURE, TYPE AND SWITCHING INDICATED

INCANDESCENT FIXTURE, TYPE AND SWITCHING INDICATED

EMERGENCY LIGHT WITH BATTERY

DUPLEX RECEPTACLE

SPECIAL RECEPTACLE, SIZE AS NOTED

FLOOR RECEPTACLE - SEE SPECIFICATIONS

FLOOR TELEPHONE OUTLET - SEE SPECIFICATIONS

TELEPHONE OUTLET

SINGLE POLE SWITCH - OUTSIDE LAMPS ONLY

SINGLE POLE SWITCH - INSIDE LAMPS ONLY

THREE-WAY SWITCH

2-POLE SWITCH - OUTSIDE LAMPS ONLY

2-POLE SWITCH - INSIDE LAMPS ONLY

MANUAL MOTOR STARTER

MANUAL MOTOR STARTER WITH PILOT LIGHT

DISCONNECT SWITCH, SIZE AND FUSE AS NOTED

TIME CLOCK

CLOCK - D - DENOTES DOUBLE

BELL - PROGRAM

FIRE ALARM BREAK GLASS STATION

FIRE ALARM SOUNDING DEVICE

FIRE ALARM PANEL

DENOTES ABOVE COUNTER OR DESK - COORDINATE WITH ARCHITECTURAL DETAILS

COMPUTER TERMINAL ISOLATED GROUND CIRCUIT

BRANCH CIRCUIT - HOME RUN INDICATED

CONDUIT - CONCEALED

CONDUIT - FLEXIBLE

HEATING ELEMENT

ELECTRICAL PANEL 208Y120V

EMPTY COMMUNICATION SYSTEM CONDUIT; 2 GANG PLATE

EMPTY GENERAL PURPOSE CONDUIT; 1 GANG PLATE

PHOTO CELL - INTERMATIC K4221-120V

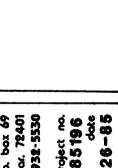
DENOTES PAY DEVICE

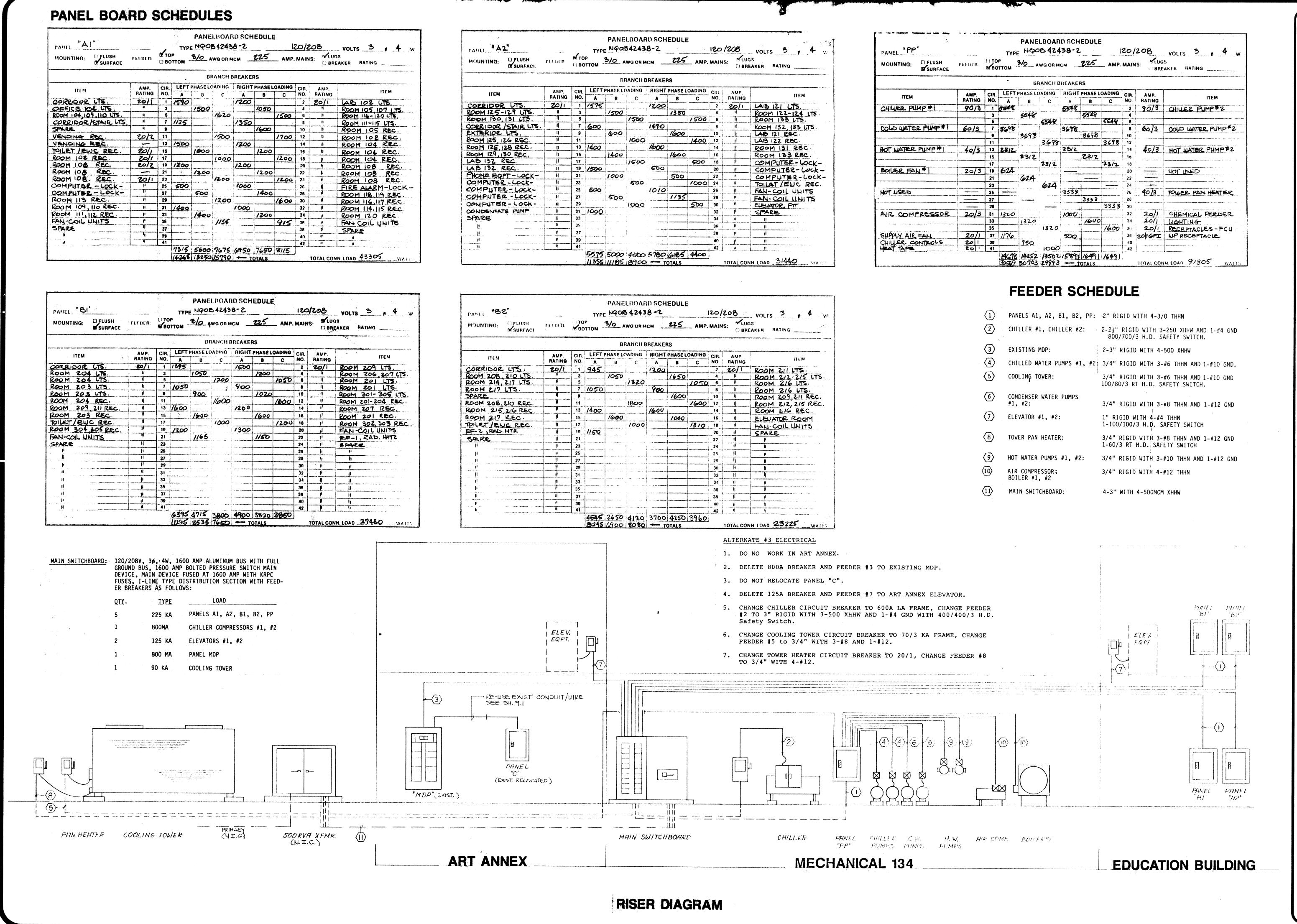
WALKERMOLD #1700 WITH OUTLETS ON 12" CENTER LINE

MAGNETIC DOOR HOLDER -EDWARDS # 1504-AQ

FAN COIL UNIT SPEED CONTROL

THERMOSTAT





9+1

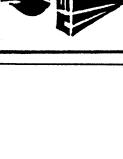
ICAL/ELECTRICAL ENGINEER

AAN ENGINEERS INC.

GOODMAN

REGISTERED PROFESSIONAL ENGINEER PROFESSIONAL PROFESSIONAL PROFESSIONAL PROFESSIONAL

RENOVATIONS AND ADDITIONS TO EDUCATION BUILDING AND ART ANNEX



nerboro ar. 72401 501/932-5530 project no. 85196 date

Grinold Tytocks