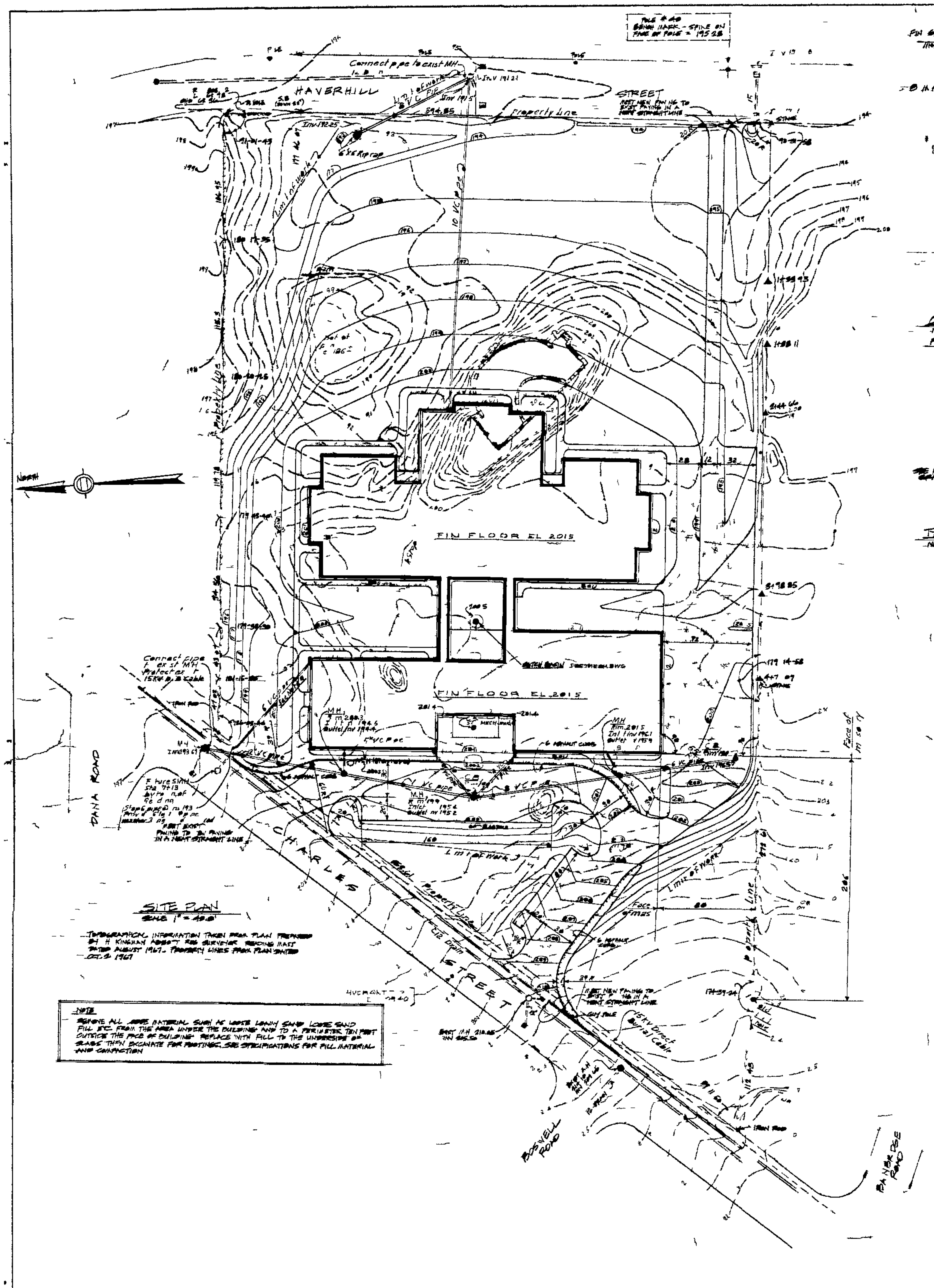
NEW ELEMENTARY SCHOOL

READING MASSACHUSETTS

STONER ASSOCIATES

ARCHITECTS

BOSTON, MASSACHUSETTS



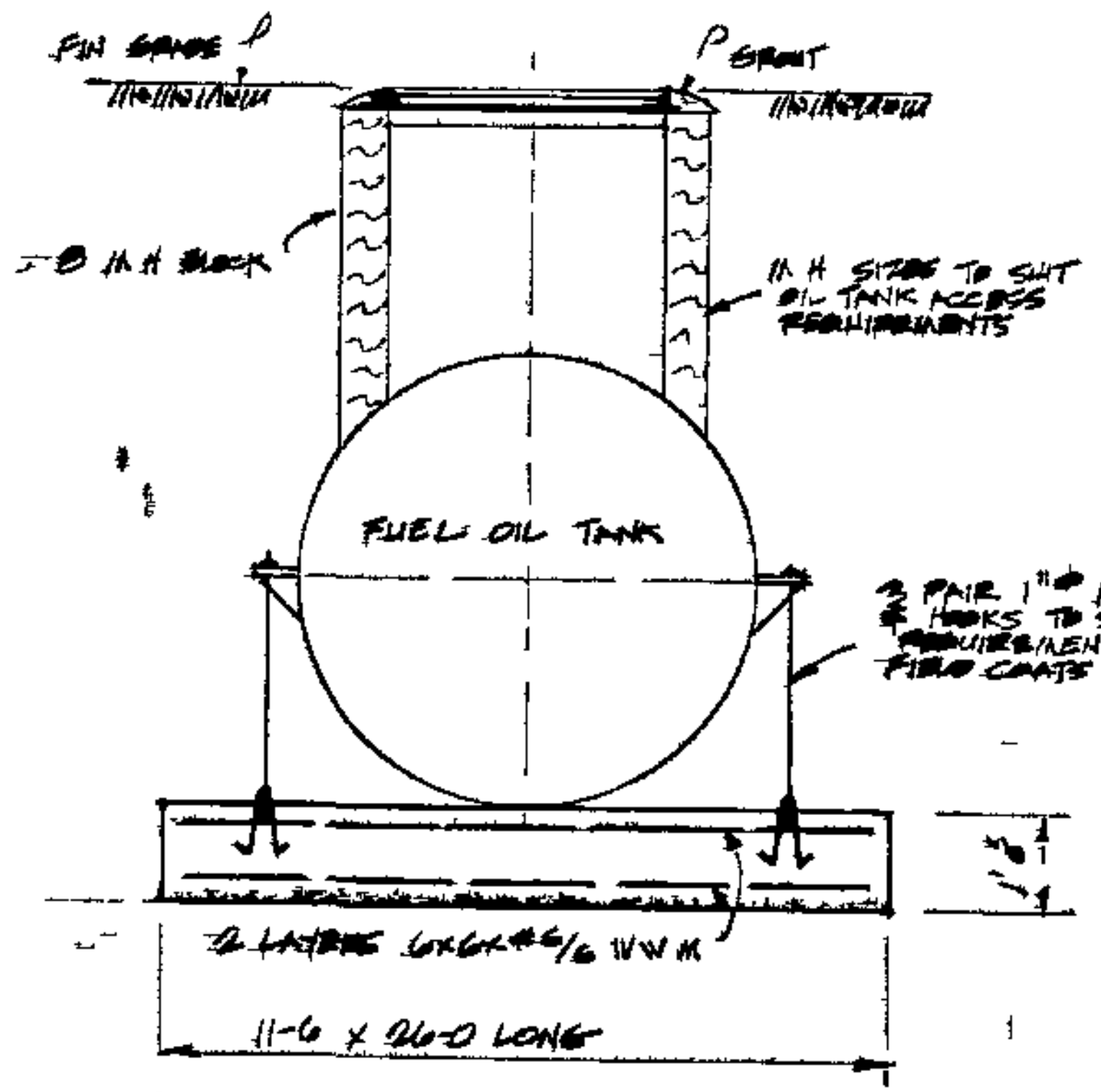
SITE PLAN

SCALE 1" = 40.0'

TOPOGRAPHICAL INFORMATION TAKEN FROM PLAN PREPARED BY H KINGMAN ABBOTT REG SURVEYOR READING MASS DATED AUGUST 1967. PROPERTY LINES FROM PLAN DATED OCT 2 1967

NOTE

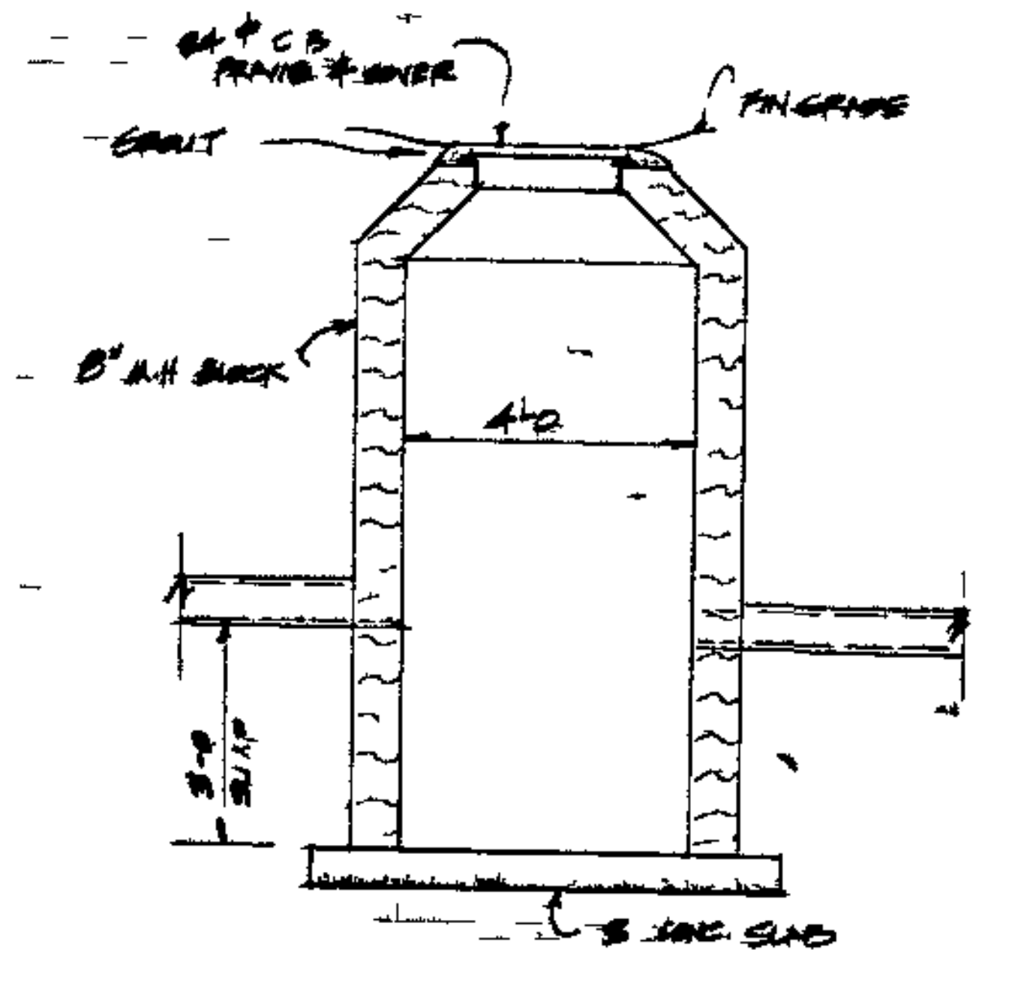
REMOVE ALL ABOVE MATERIAL SUCH AS LOOSE LOAMY SAND LOOSE SAND FILL ETC FROM THE AREA UNDER THE BUILDING AND TO A PERIMETER TEN FEET OUTSIDE THE FACE OF BUILDING. REPLACE WITH FILL TO THE UNDERSIDE OF SLABS THEN EXCAVATE FOR FOOTINGS. SEE SPECIFICATIONS FOR FILL MATERIAL AND COMPACTION


FIN GRADE
GROUT
8 M.H BLOCK
M.H SIZE TO SUIT OIL TANK ACCESS REQUIREMENTS
FUEL OIL TANK
3 PAIR 1"Ø HOLD DOWN RODS & HOOKS TO SUIT MASS STD. REQUIREMENTS PAINT TWO FIELD COATS ASPHALT PAINT
2 LAYERS 6x6x#6/6 WWM
11-6 x 26-0 LONG

OIL TANK FOUNDATION DETAIL

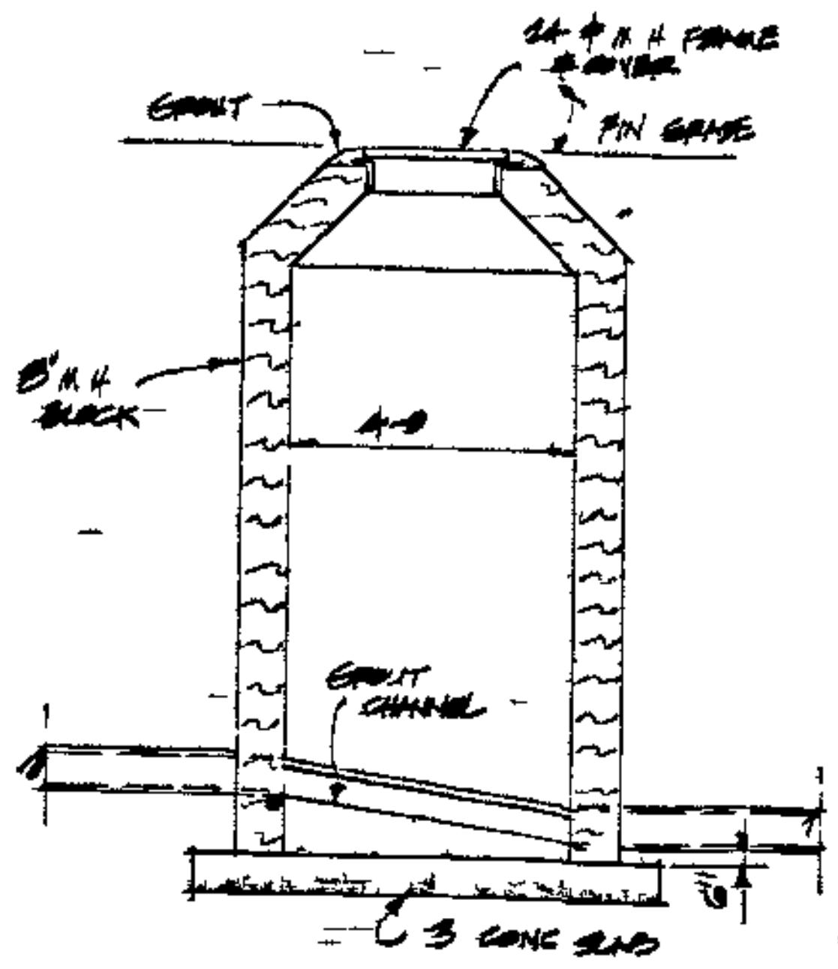
NOT TO SCALE

FOR LOCATION & DETAILS SEE DWG H5



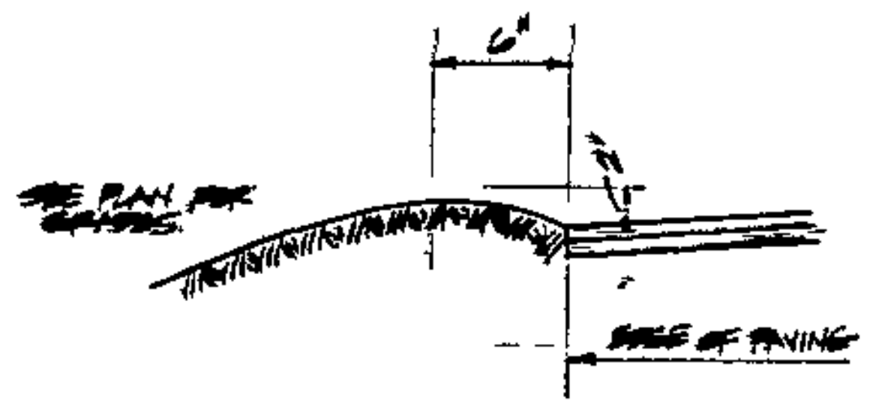
CATCH BASIN DETAIL

NOT TO SCALE



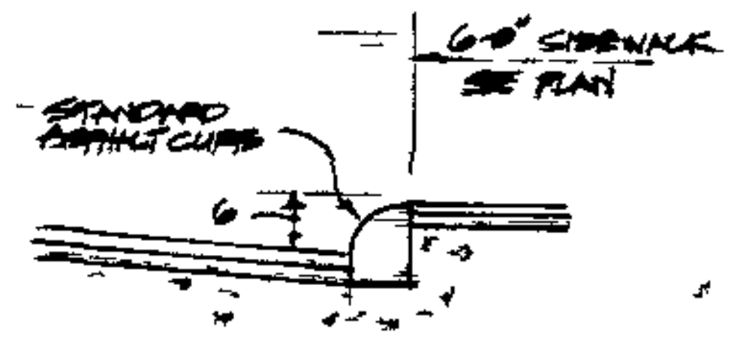
MANHOLE DETAIL

NOT TO SCALE



TYPICAL PAVING EDGE DETAIL

NOT TO SCALE



ASPHALT CURB DETAIL

NOT TO SCALE

LEGEND

EXISTING CONTOURS	200
PROPOSED CONTOURS	(201)
PROPOSED SPOT GRADES	× 200
BITUMINOUS PAVING (ON PLAN)	
CONCRETE PAVING (ON PLAN)	
CATCH BASIN	● CB
6 ASPHALT CURB	

NOTES

1 FOR MATERIALS ERECTION & WORKMANSHIP SEE SPECIFICATIONS
2 FOR ADDITIONAL SITE WORK SEE ALSO ARCHITECTURAL MECHANICAL & ELECTRICAL DRAWINGS
3 ALL FINISHED AREAS PARTICULARLY PAVED AREAS, SHALL BE ACCURATELY GRADED TO PREVENT ANY PUDDLING WHATSOEVER
4 SLOPE ALL PIPING FROM INVERTS SHOWN ON PLUMBING DRAWINGS TO INVERTS SHOWN ON THIS DRAWING USING BATTER BOARDS @ 2.5 ± %
5 EXISTING TREES THAT ARE TO BE RETAINED SHALL BE DESIGNATED BY THE ARCHITECT PRIOR TO THE CLEARING OF THE SITE. SUCH TREES SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION
6 RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO THEIR ORIGINAL CONDITION
7 PROVIDE FLAGPOLE FOUNDATION PER MANUFACTURERS RECOMMENDATIONS
8 REMOVE CAREFULLY AND STORE ON SITE ALL EXISTING PLAY EQUIPMENT
9 ALL VITRIFIED CLAY PIPE IN SEWAGE INSTALLATION SHALL HAVE FACTORY INSTALLED JOINTS A S T M TENTATIVE SPECS COVERING VC PIPES USING MATERIAL HAVING RESILIENT PROPERTIES
10 ALL VITRIFIED CLAY PIPE OTHER THAN IN SEWAGE INSTALLATION SHALL HAVE STANDARD CAULKED & GROUTED JOINTS
11 ALL WORK FOR THE INSTALLATION OF UTILITIES AS CALLED FOR IN THE CONTRACT DOCUMENTS SHALL BE PROVIDED WHETHER OR NOT SHOWN WITHIN THE LIMIT OF WORK
12 FOR LAYOUT & DIMENSIONS OF WALKS AROUND BUILDING SEE DWG # 13

743
MASS

STONER ASSOCIATES
ARCHITECTS

NEW ELEMENTARY SCHOOL
READING MASS

SITE WORK

JOB NO.
DRAWN ACM
DC AN
CHECKED EMTL
2 15 68

1

PART "B"
PART "A"

PLANT LIST

QUANTITY	PLANT	SIZE
12	NORWAY MAPLE	
100	JUNIPERUS HORIZONTALIS	24"
2	CLUMPS BETULA PUBESCENS (3 PER CLUMP)	10-12 FT.
12	KALMIA LATIFOLIA	24"
4	MALUS	8 FT.
3	CORNUS PANICULATA	8 FT.
100	VINCA	

NOTE: PROVIDE PEASTONE BED MULCHED 3" DEEP ON 6 MIL BLOCK POLYETHILENE OUTSIDE BED IN COURT YARD.
PROVIDE WOOD CHIP MULCH 3" DEEP IN PLANTING BEDS. TOPSOIL IN PLANTING BEDS SHALL BE PLANTS TO BE LOCATED WHERE DIRECTED BY THE ARCHITECT

NOTE:
MATERIALS AND CONSTRUCTION CONFORM TO THE REQUIREMENTS OF THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC SAFETY BOARD OF SCHOOL HOUSE STRUCTURAL STANDARDS.

George H. Stoner

GENERAL NOTES
- ALL VERTICAL BRICK COURSING SHALL BE 2 5/8" INCLUDING 3/8" JOINT.
- ALL VERTICAL CONC. BL'K COURSING SHALL BE 7 7/8" INCLUDING 3/8" JOINT.
- ALL VERTICAL STRUCTURAL TILE COURSING SHALL BE 5 1/4" INCLUDING 3/16" JOINT.
- ALL PARTITIONS SHALL BE EXTENDED, WEDGED AND ANCHORED TO THE UNDERSIDE OF DECKS, AND BE FITTED TO JOISTS.
- ALL PARTITIONS SHALL BE 6" UNLESS OTHERWISE NOTED
- G.C. SHALL SUBMITT FULL SIZE SHOP DRAWINGS OF ALL WOOD CANT, EAVES & CURB ASSEMBLIES.
- ALL CONCRETE NOMINAL 6" WALLS SHALL BE 5 5/8" THICK.
- ALL CONCRETE NOMINAL 8" WALLS SHALL BE 7 5/8" THICK.
- ALL WALLS SHALL BE 6" THICK UNLESS OTHERWISE SHOWN.
- M.O. - MASONRY OPENING.
- FOR DEMENSIONS OF TOILET ROOM # SEE 1/4 SCALE PLANS DWG #
- ☐ ROOM NUMBERS
- ☐ DOOR NUMBERS
- N.I.C. - NOT IN CONTRACT.
- D.F. - DRINKING FOUNTAIN.
- R.D. - ROOF DRAIN.
- U.V. - UNIT VENT
- T.B. - TACK BOARD
- C.H. - CHALK BOARD
- W.O. - WINDOW OPEN'G

NOTE - ALL LABOR AND MATERIALS NOT OTHERWISE SHOWN OR SPECIFIED SHALL BE FURNISHED, INSTALLED AND PERFORMED BY THE GENERAL CONTRACTOR.

GEORGE H. STONER
No. 743

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

NEW ELEMENTARY SCHOOL
READING, MASS.

FLOOR PLAN PART "A"

59415

JOB NO.
DRAWN
CHECKED
SCALE 1/8" = 1'-0"
DATE 2-15-68

DR. NO. 2

NOTE – ALL LABOR AND MATERIALS NOTE OTHERWISE SHOWN OR SPECIFIED SHALL BE FURNISHED, INSTALLED AND PERFORMED BY THE GENERAL CONTRACTOR.

GENERAL NOTES

- ALL VERTICAL BRICK COURS'G SHALL BE 2 5/8" INCLUD'G 3/8" JOINT.
- ALL VERTICAL CONC. BL'K COURS'G SHALL BE 7 7/8" INCLUD'G 3/8" JOINT.
- ALL VERTICAL STRUCTURAL TILE COURS'G SHALL BE 5 1/4" INCLUD'G 3/16" JOINT.
- ALL PARTITIONS SHALL BE EXTENDED, WEDGED AND ANCHORD TO THE UNDER SIDE OF DECKS, AND BE FITTED TO JOISTS AND BEAMS.
- ALL PARTITIONS SHALL BE 6" UNLESS OTHERWISE NOTED.
- GEN'L CONTRACTOR SHALL SUBMIT FULL SIZE SHOP DWG. DETAILS OF ALL EAVE, CURB & CANT BLOCKING.

- W.O. = WINDOW OPENING
- M.O. = MASONRY OPENING.
- FOR DIMENSIONS OF TOILET ROOMS
- SEE 1/4 SCALE PLANS DWG. #
- ▭ ROOM NUMBER
- ▭ DOOR NUMBER
- N.I.C. = NOT IN CONTRACT
- D.F. = DRINKING FOUNTAIN
- R.D. = ROOF DRAIN
- U.V. = UNIT VENT

GEORGE H. STONER No. 743

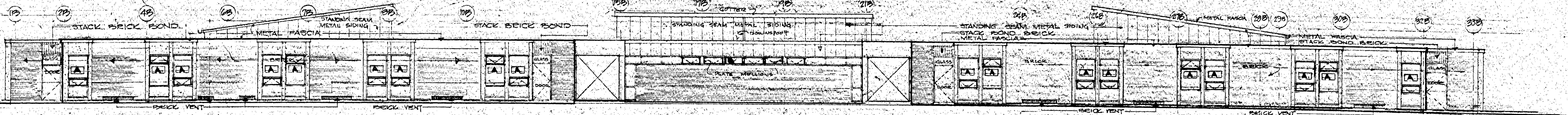
STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

PROPOSED ELEMENTARY SCHOOL
READING MASS.

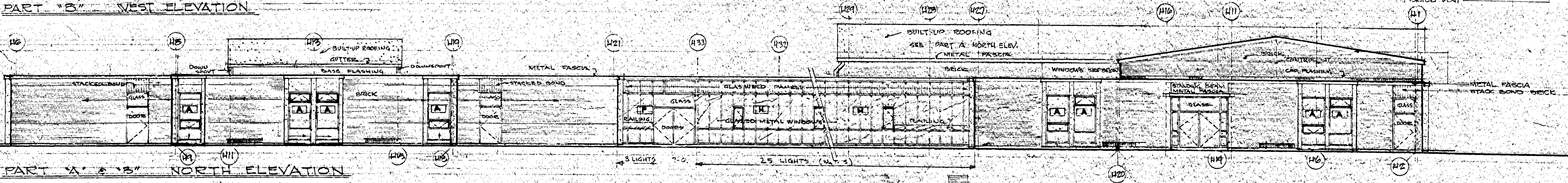
FLOOR PLAN PART B

JOB NO.	DRAWN	SCALE 1/8" = 1'-0"	DR. NO.
	CHECKED	DATE 2-15-68	3

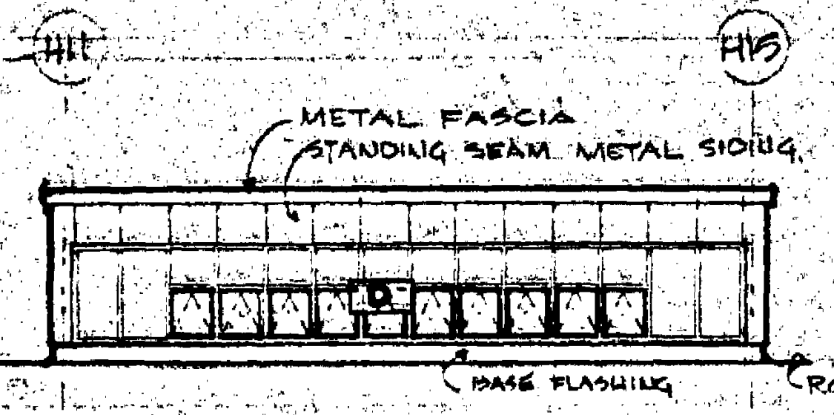
PART "B" EAST ELEVATION



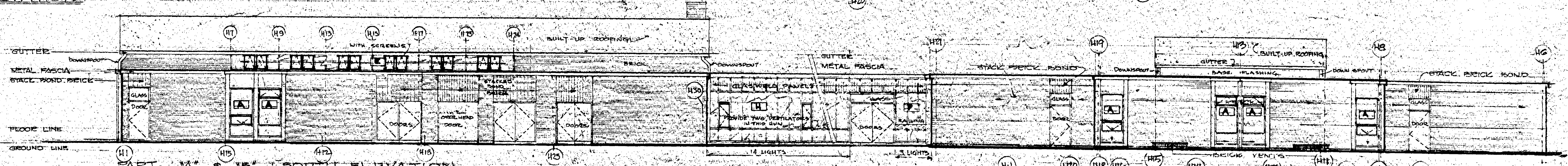
PART "B" WEST ELEVATION



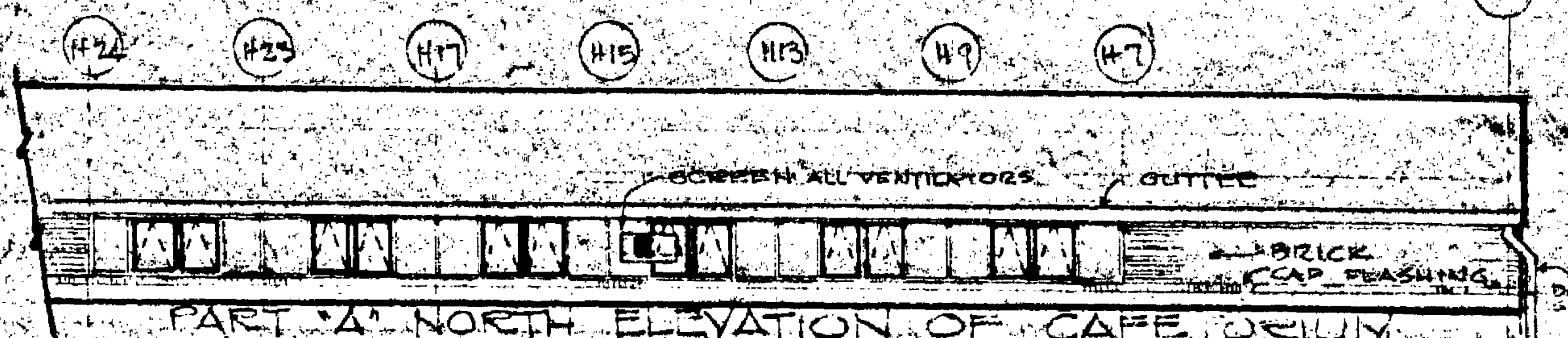
PART "A" & "B" NORTH ELEVATION



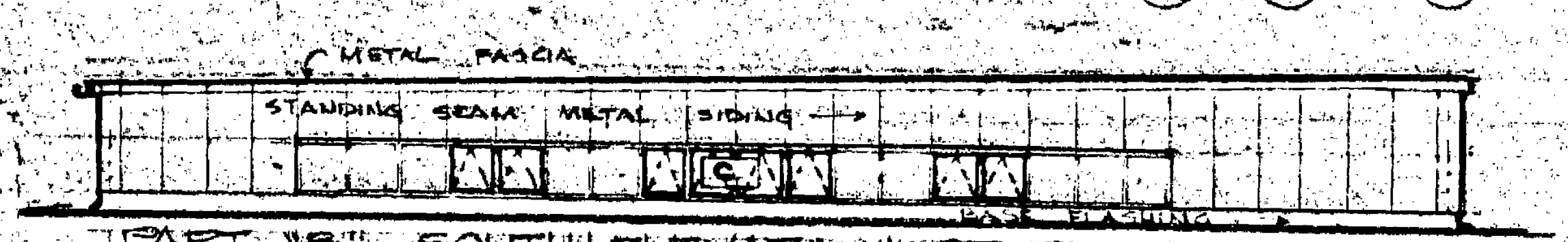
PART "B" NORTH ELEVATION OF CLERESTORY OVER CLASSRM. 129; SOUTH ELEVATION OPPOSITE HAND CLASSROOM 143



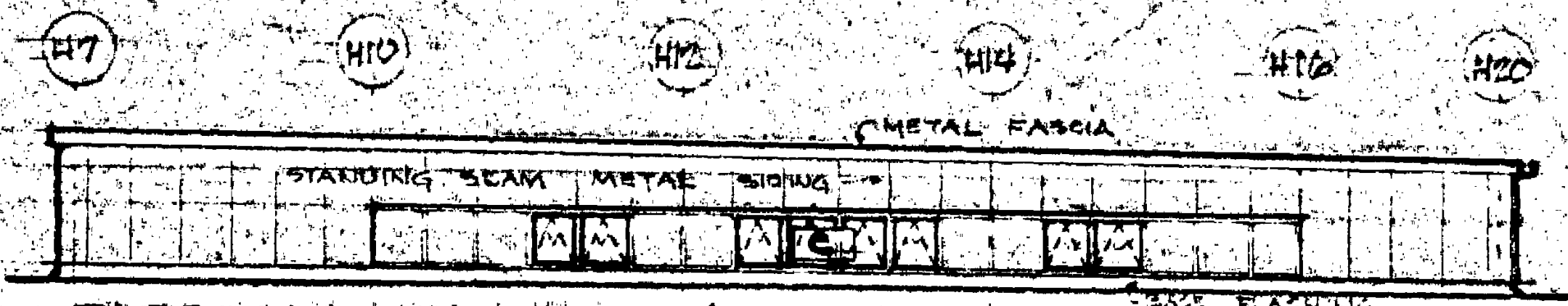
PART "A" & "B" SOUTH ELEVATION



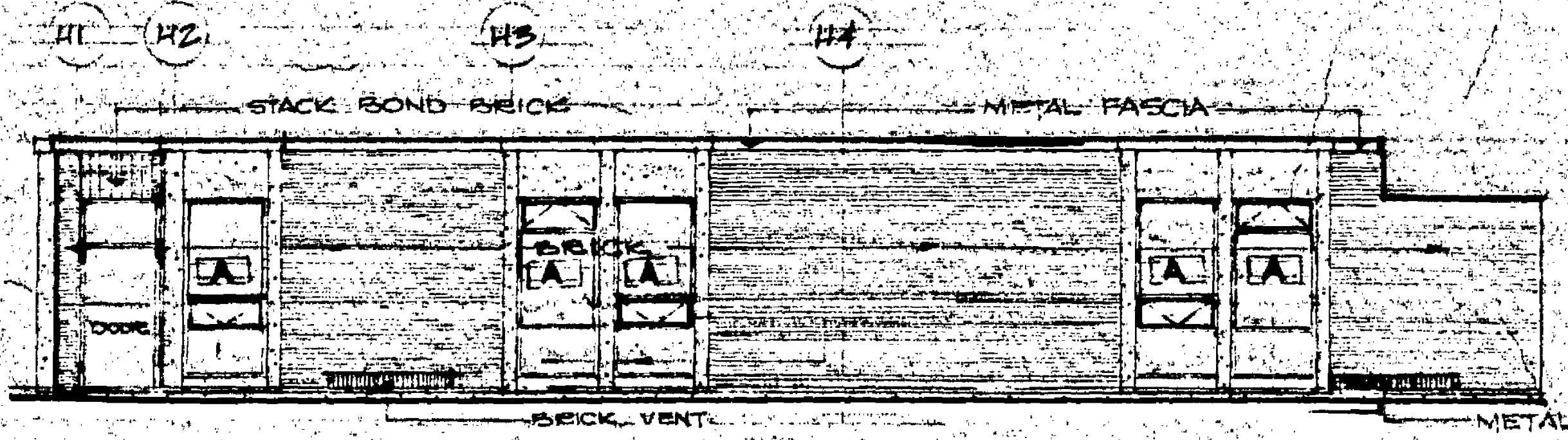
PART "A" NORTH ELEVATION OF CAFE ORIUM CLERESTORY (see North elev. for continuation)



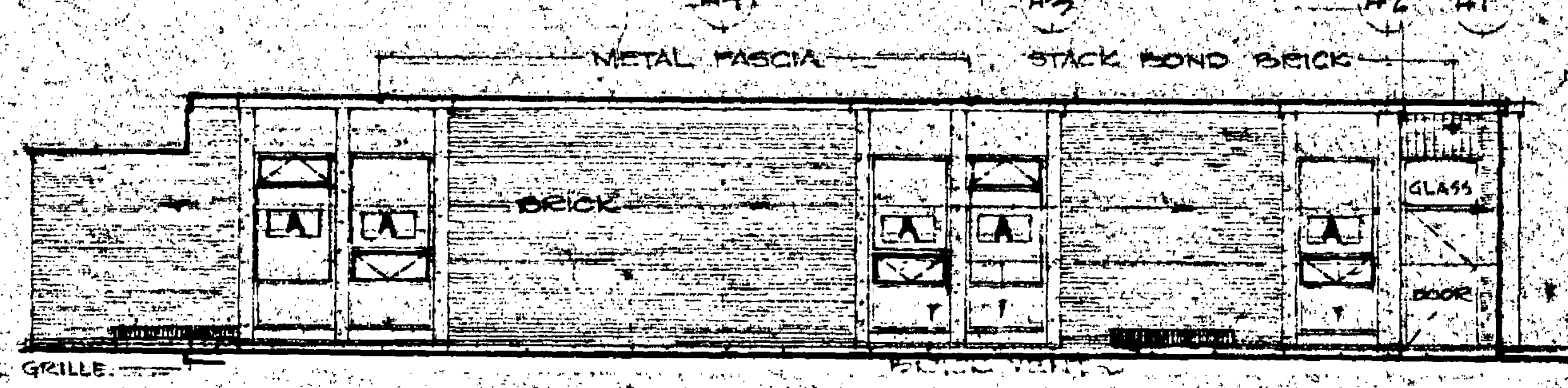
PART "B" SOUTH ELEVATION OF CLERESTORY OVER RESOURCE CENTER



PART "B" NORTH ELEVATION OF CLERESTORY OVER RESOURCE CENTER



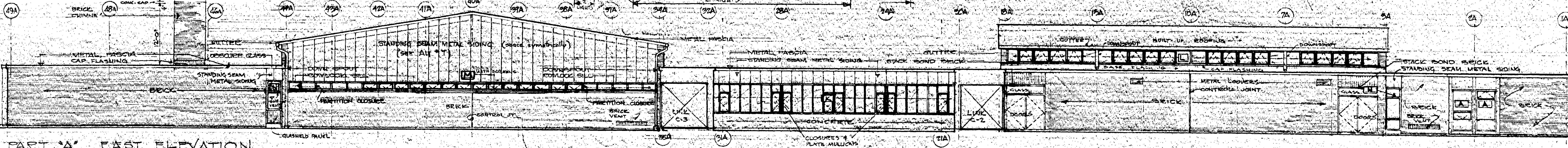
PART "B" NORTH ELEVATION AT ROOMS 140 & 141



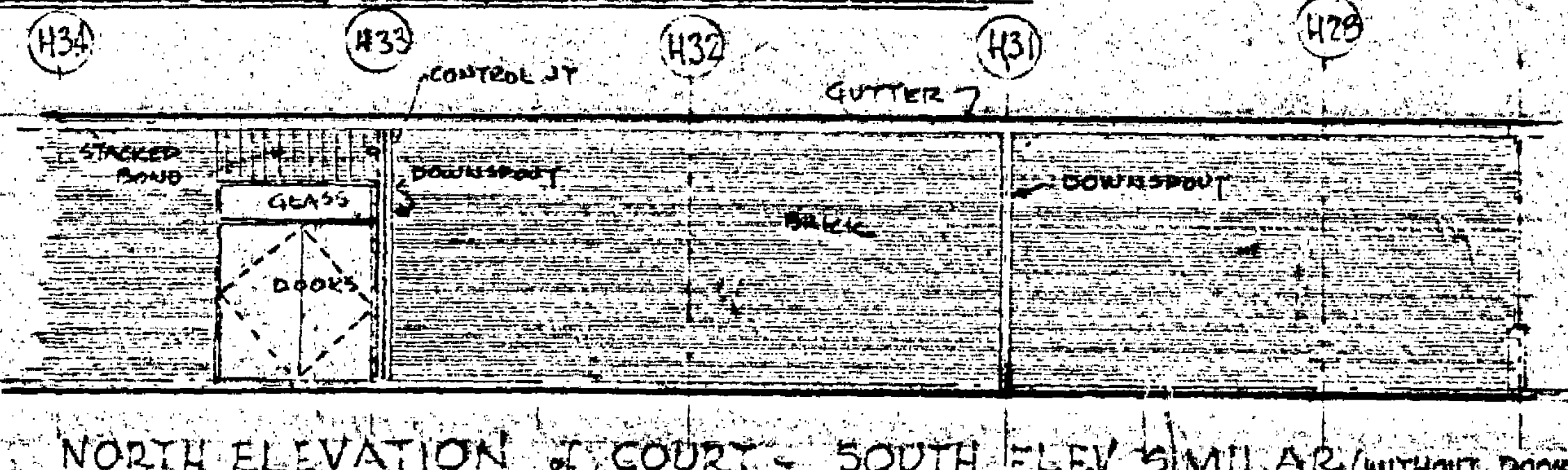
FLOOR LEVEL
GROUND LEVEL

PART "B" SOUTH ELEVATION AT ROOMS 133 & 134

PART "A" WEST ELEVATION



PART "A" EAST ELEVATION



NORTH ELEVATION of COURT - SOUTH ELEV SIMILAR (without door)

KEY

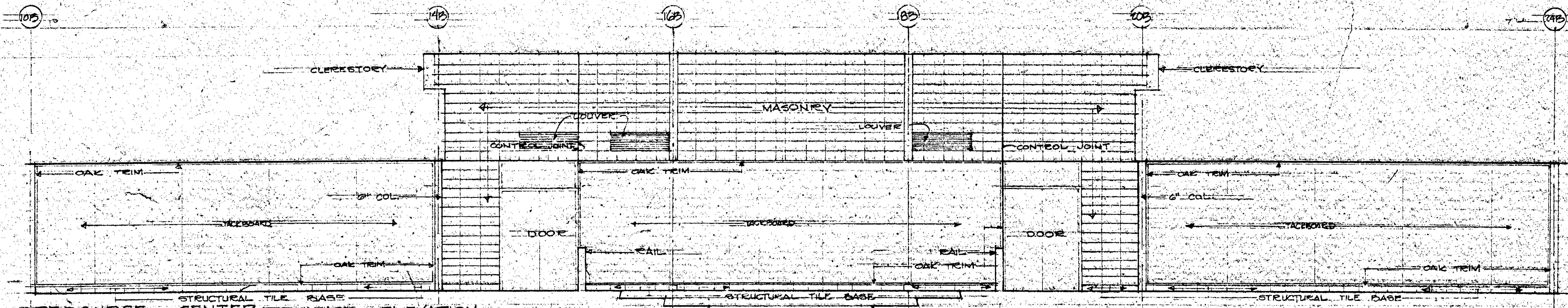
▨	WINDOW VENTILATOR
A	WINDOW TYPE (SEE SPECS)
▤	BRICK
▨	SANDWICH PANEL
▥	GLASWELD PANELS

REGISTERED ARCHITECT GEORGE H. STONER No. 743 BOSTON, MASS.

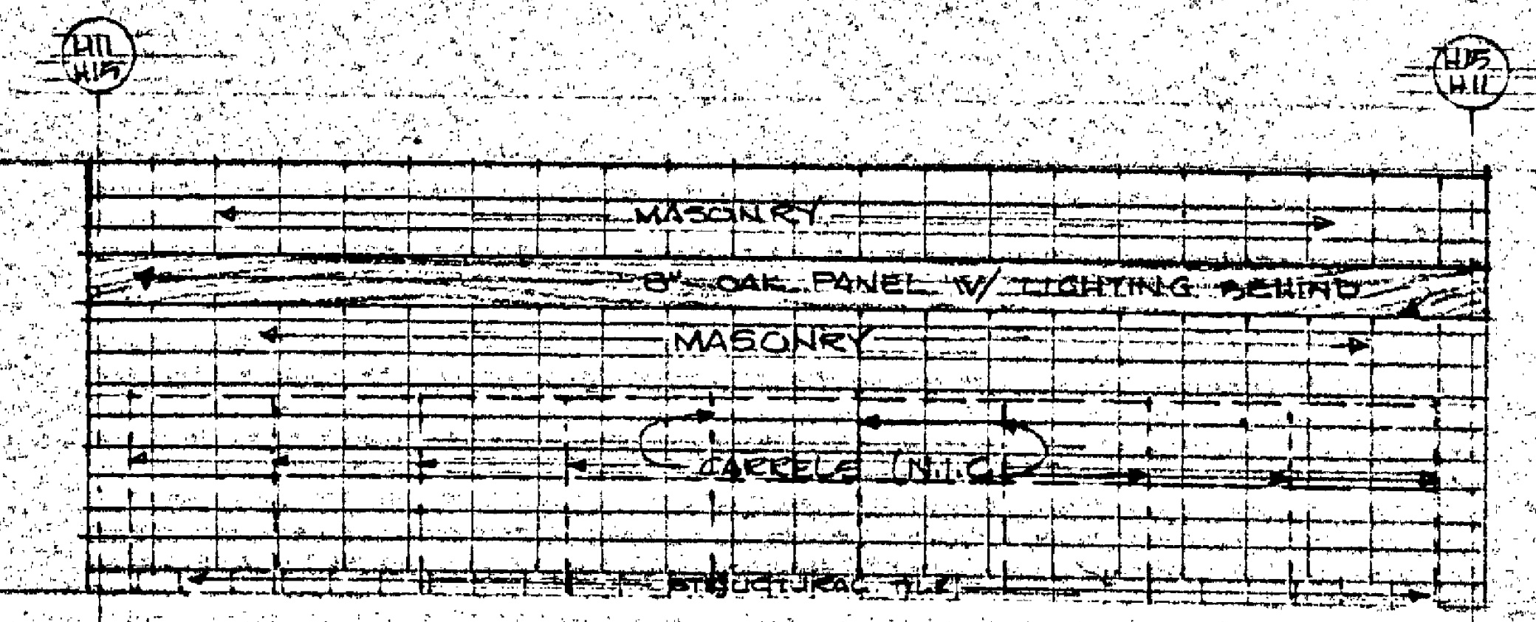
STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

NEW ELEMENTARY SCHOOL
READING, MASS.
EXTERIOR ELEVATION

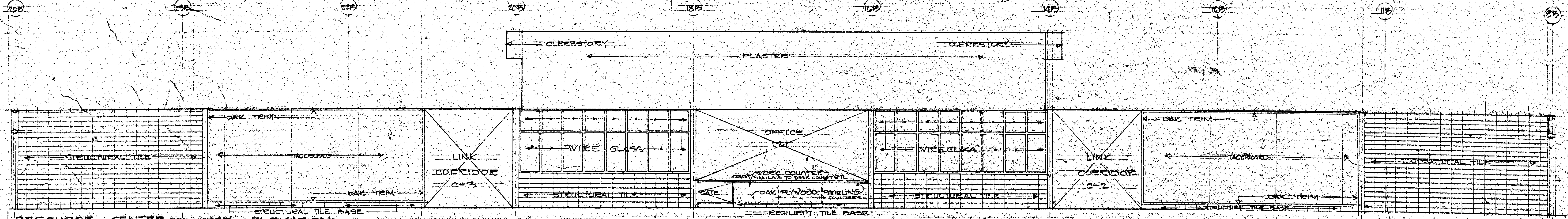
JOB NO.	DRAWN RJ	SCALE 1/8"=1'-0"	SH. NO. 4
	CHECKED	DATE 2-15-68	



RESOURCE CENTER:- EAST ELEVATION

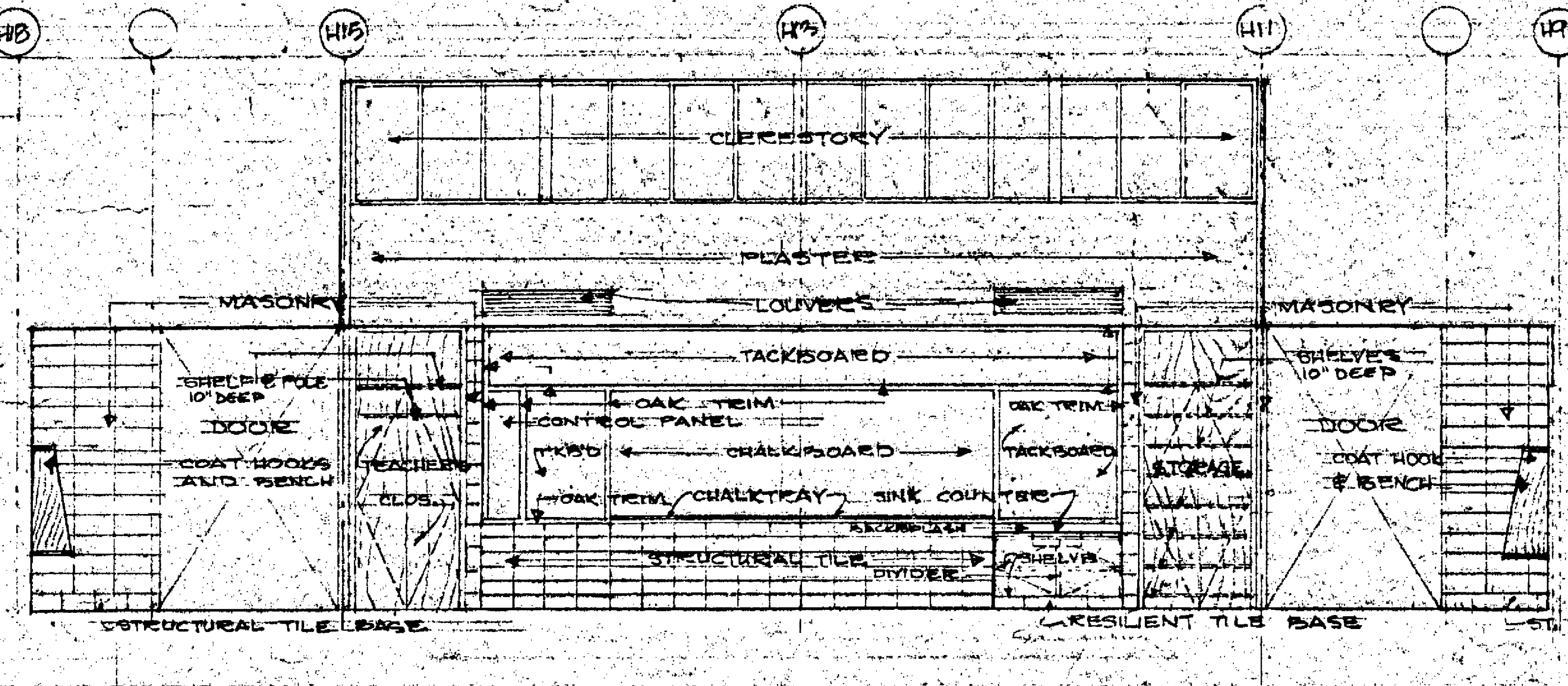


RESOURCE CENTER 123 NORTH & SOUTH CARREL WALLS

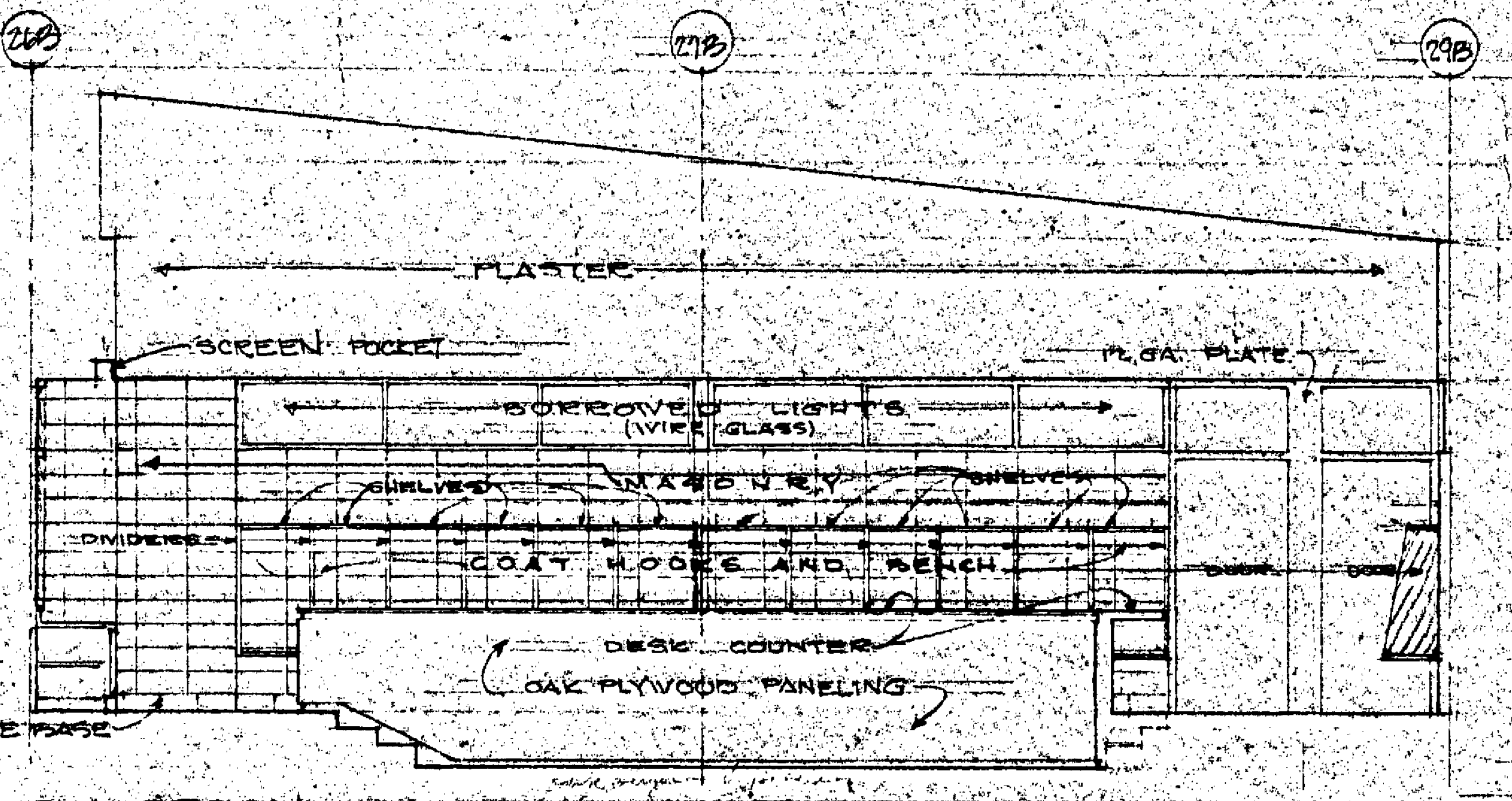


RESOURCE CENTER:- WEST ELEVATION

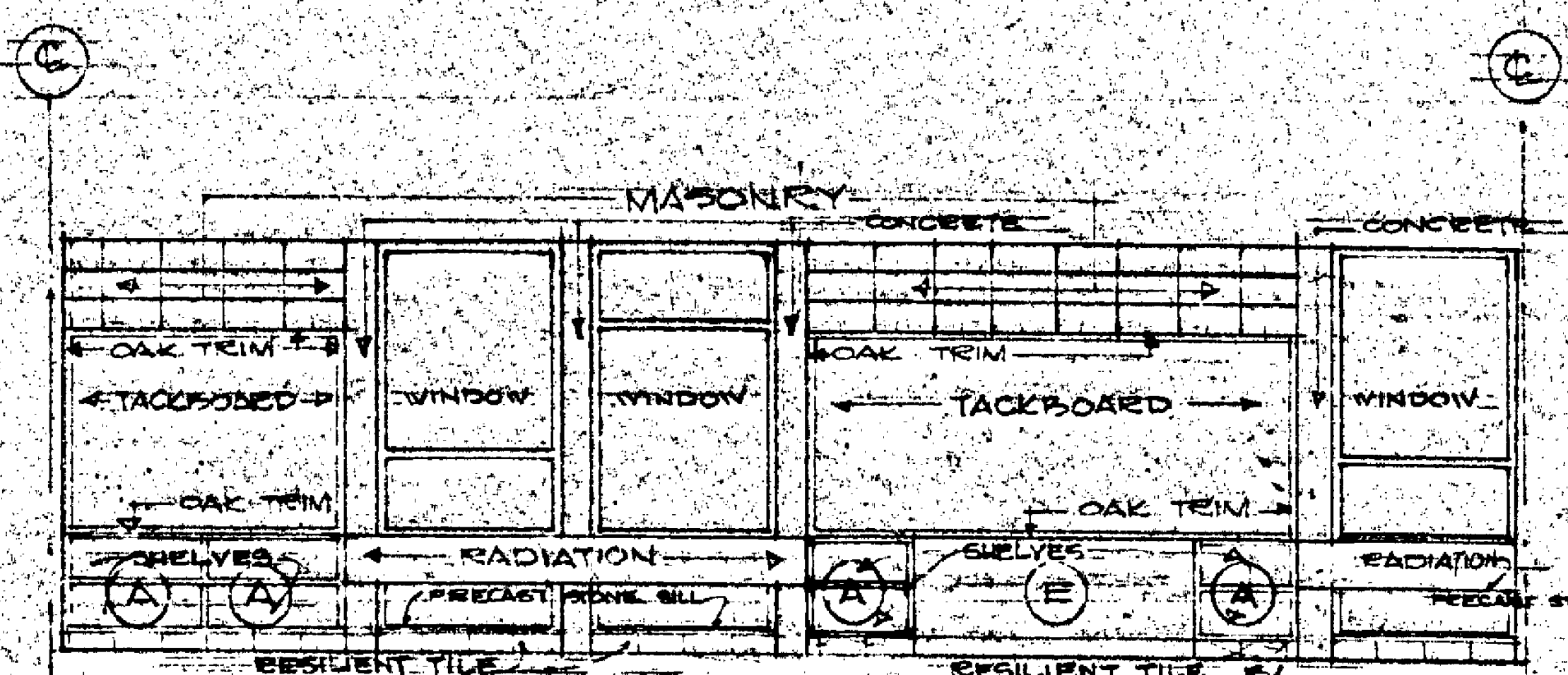
KEY:-
1. A.- ADJUSTABLE SHELVES (MIN. 2'-0")
2. B.- LARGE TOTE TRAYS (4'-0" WIDE)
3. C.- MEDIUM TOTE TRAYS (4'-0" WIDE)
4. D.- FILLER SECTIONS
5. E.- UNIT VENTILATOR
6. O.H.- OPPOSITE HAND



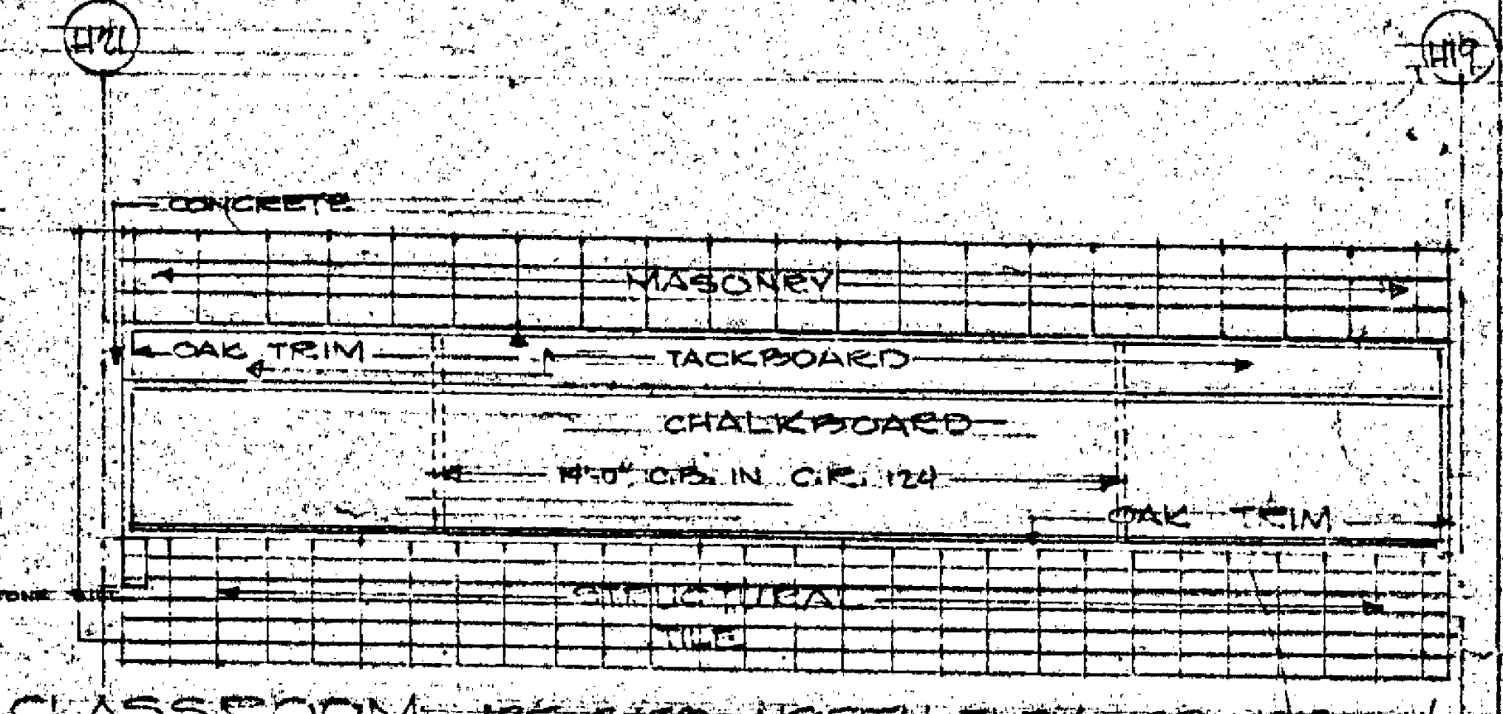
CLASSROOM: 129 - NORTH ELEVATION; 143 - SOUTH ELEVATION



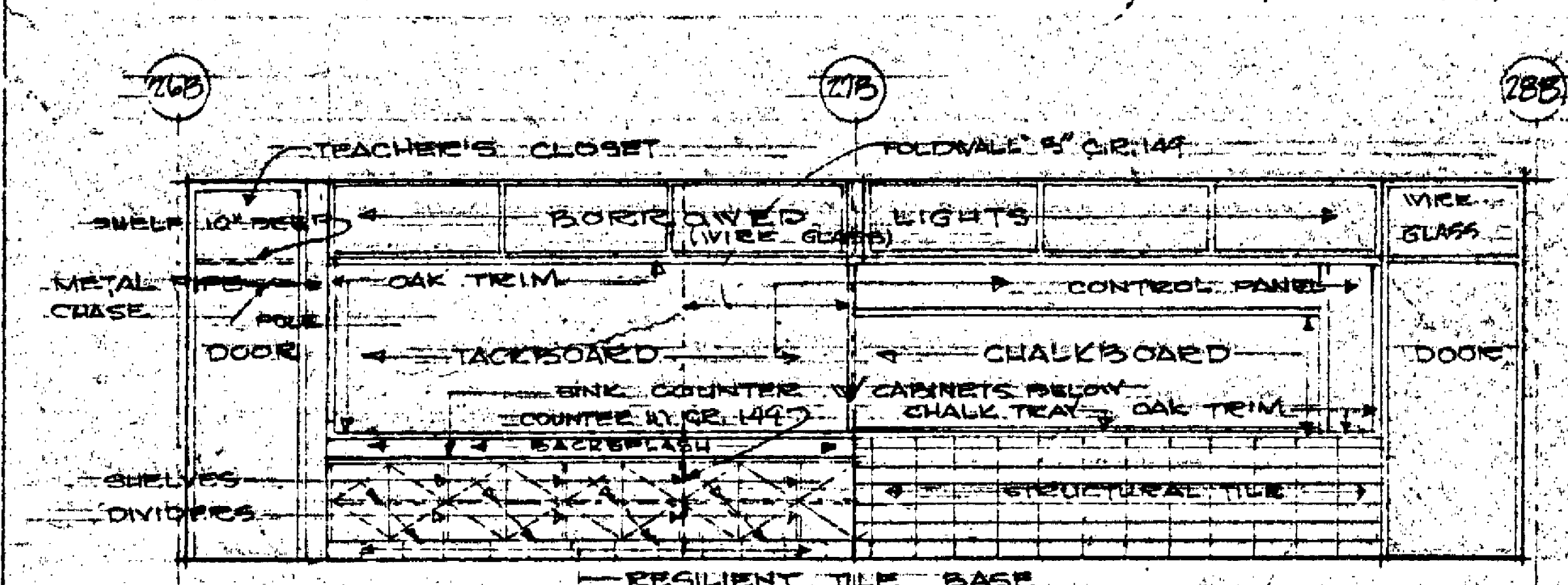
CLASSROOM: 129- EAST ELEVATION; 143 - WEST ELEVATION



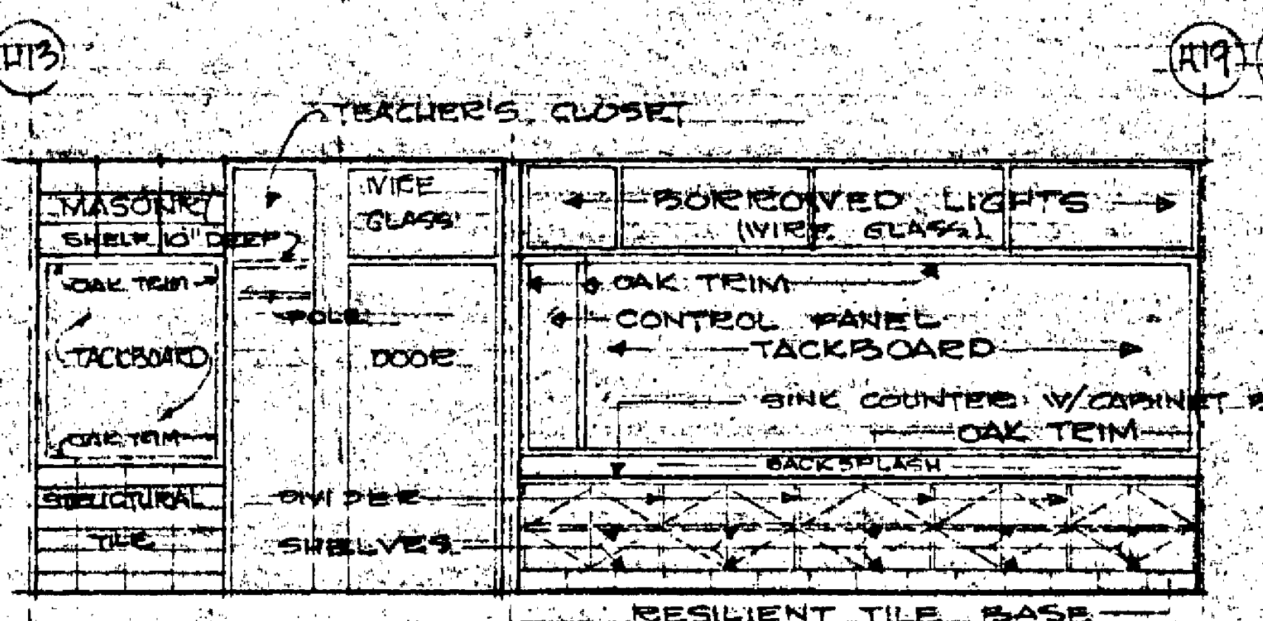
CLASSROOM:- 130 & 144 EAST ELEVATION; O.H. 131 & 145 EAST ELEVATION



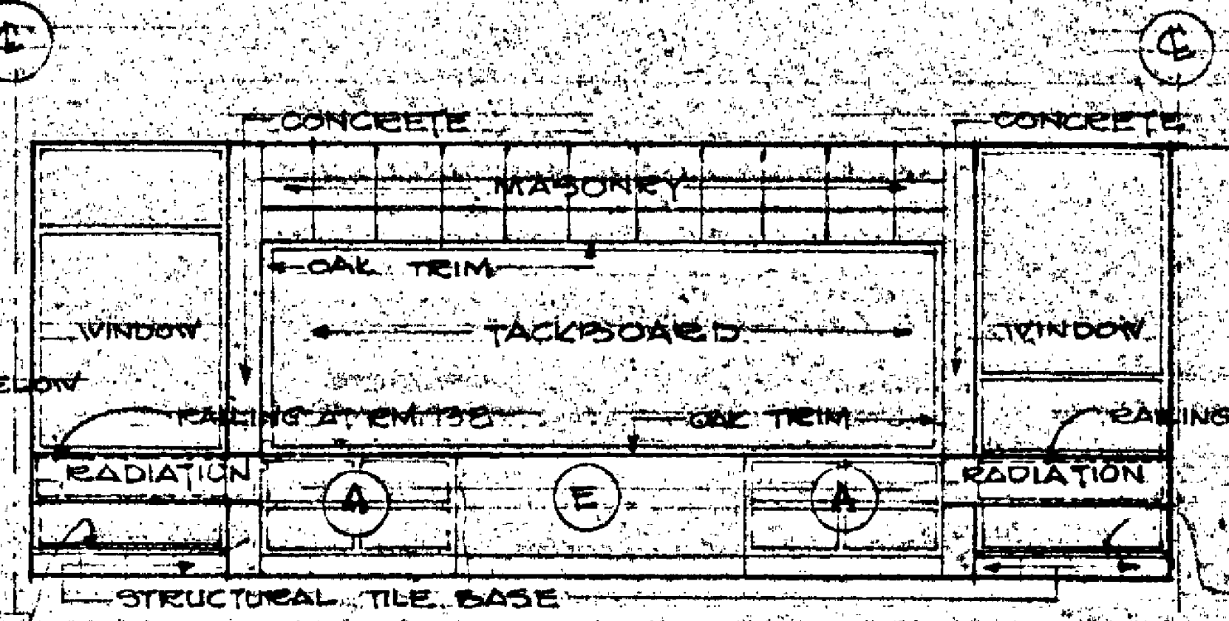
CLASSROOM:- 125 & 150 - NORTH ELEV.; C.R. 149 & 124 SOUTH ELEV.



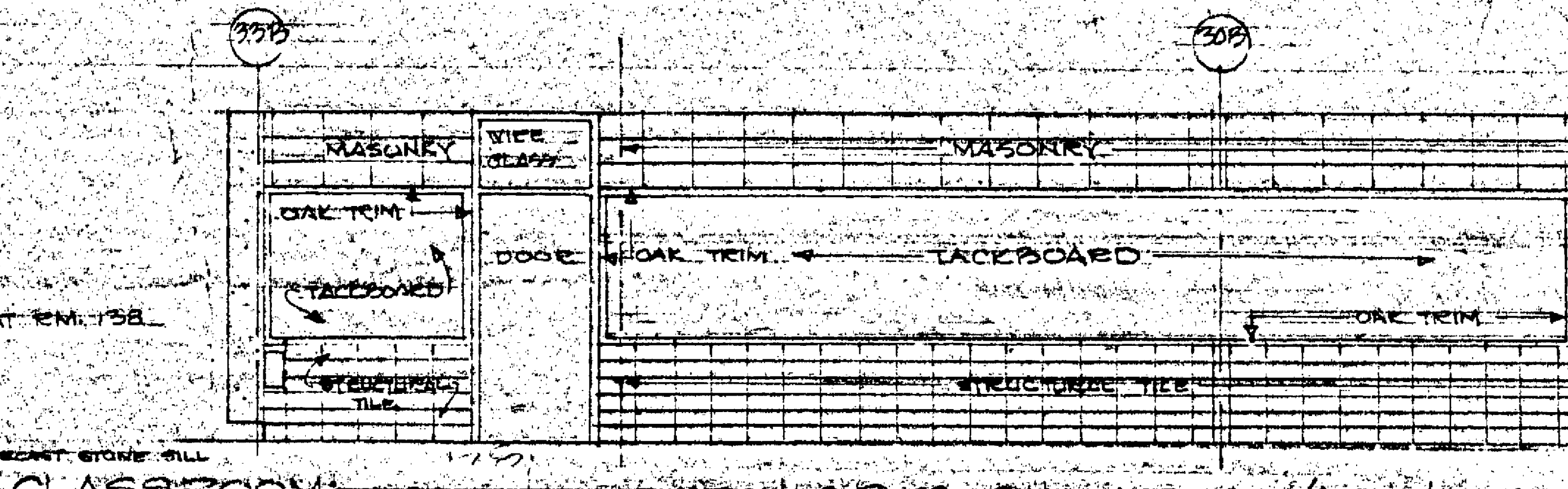
CLASSROOM:- C.R. 125 EAST ELEVATION, C.R. 149 - SIMILAR; C.R. 131 - WEST ELEVATION, C.R. 144 OPPOSITE HAND



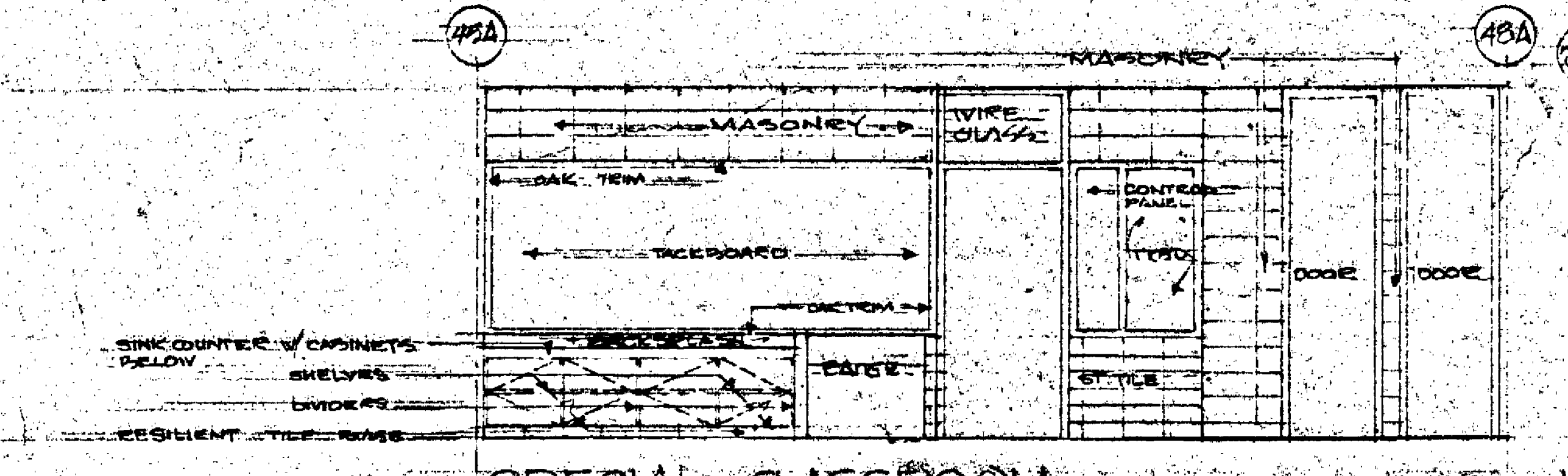
CLASSROOM:- C.R. 122-NORTH ELEVATION; C.R. 128 O.H.; C.R. 146- SOUTH ELEV. C.R. 147-O.H.



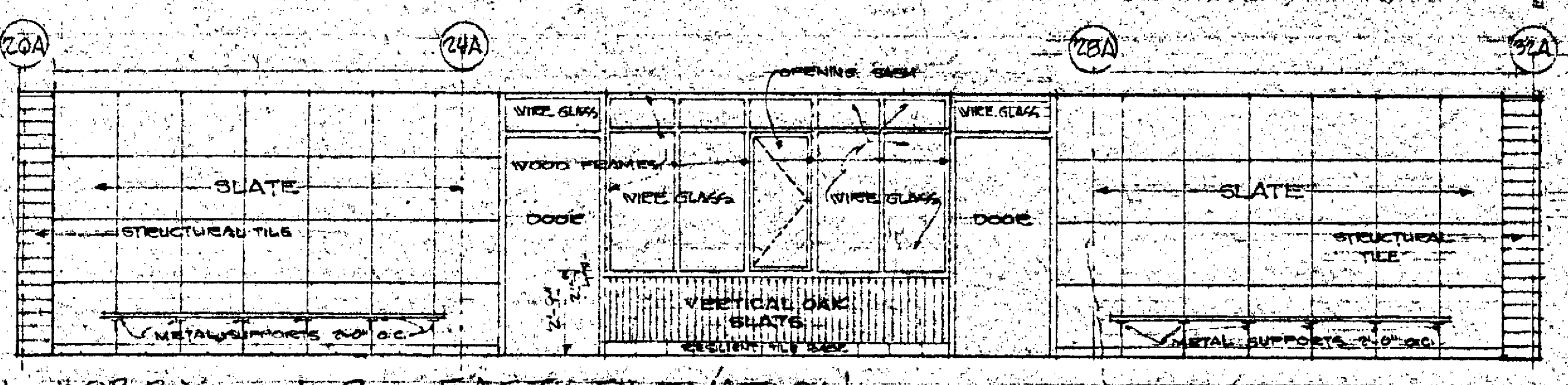
CLASSROOM:- C.R. 146 & 147-NORTH ELEV.; C.R. 127 & 128- SOUTH ELEV.; C.R. 138 & 139 - EAST ELEVATION



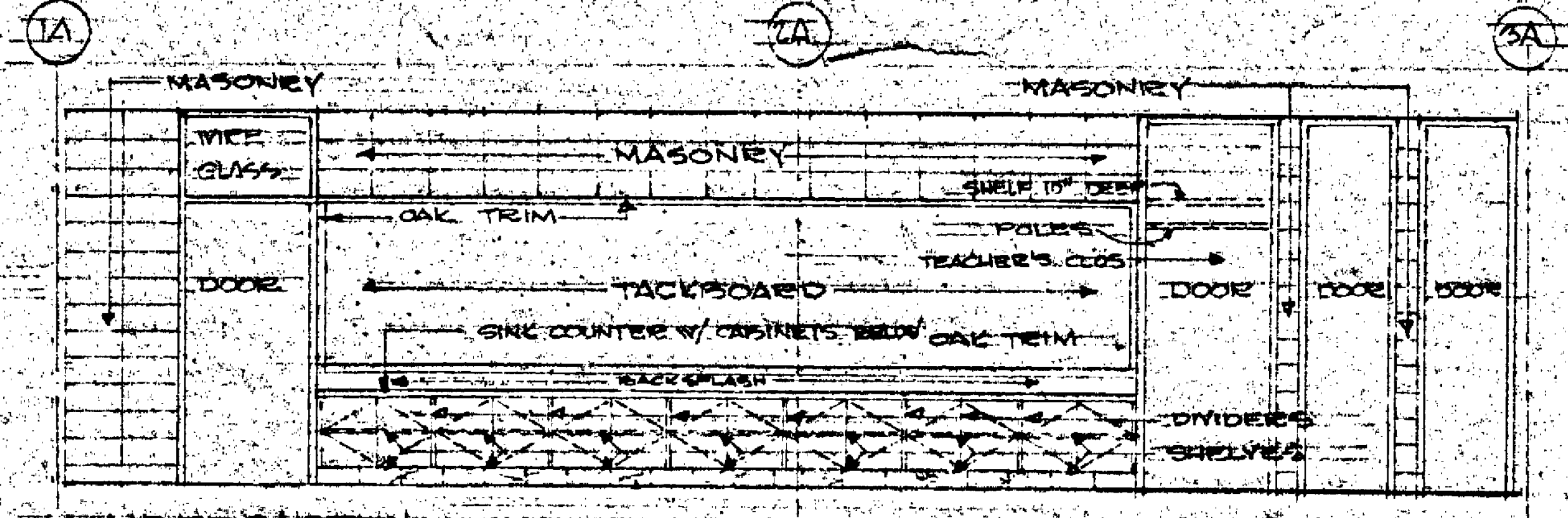
CLASSROOM:- C.R. 127 WEST ELEVATION, C.R. 128 O.H. EAST ELEVATION; C.R. 146 EAST ELEVATION, C.R. 147 O.H. WEST ELEVATION



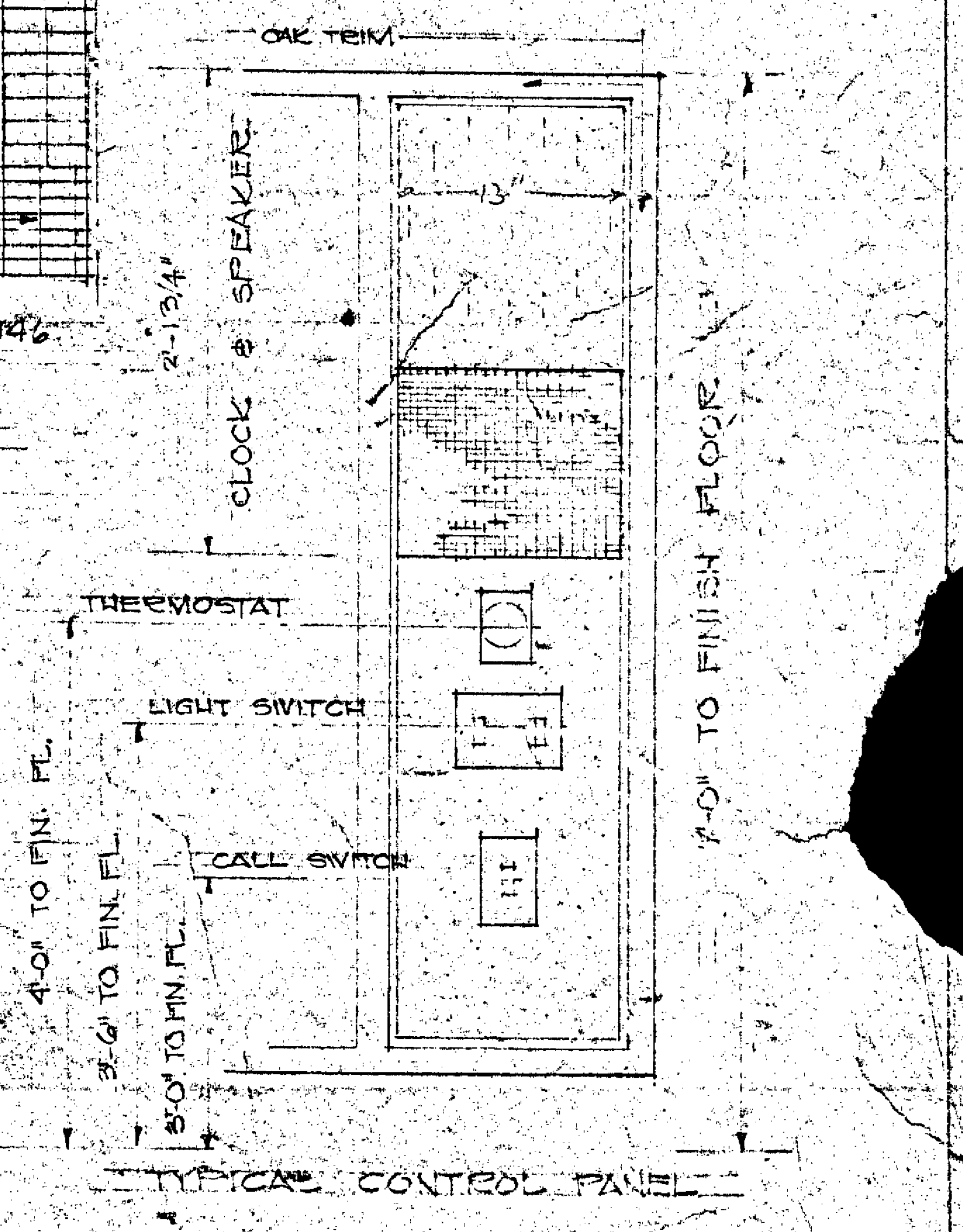
SPECIAL CLASSROOM:- C.R. 112 EAST ELEVATION OPPOSITE HAND C.R. 113 -EAST ELEVATION



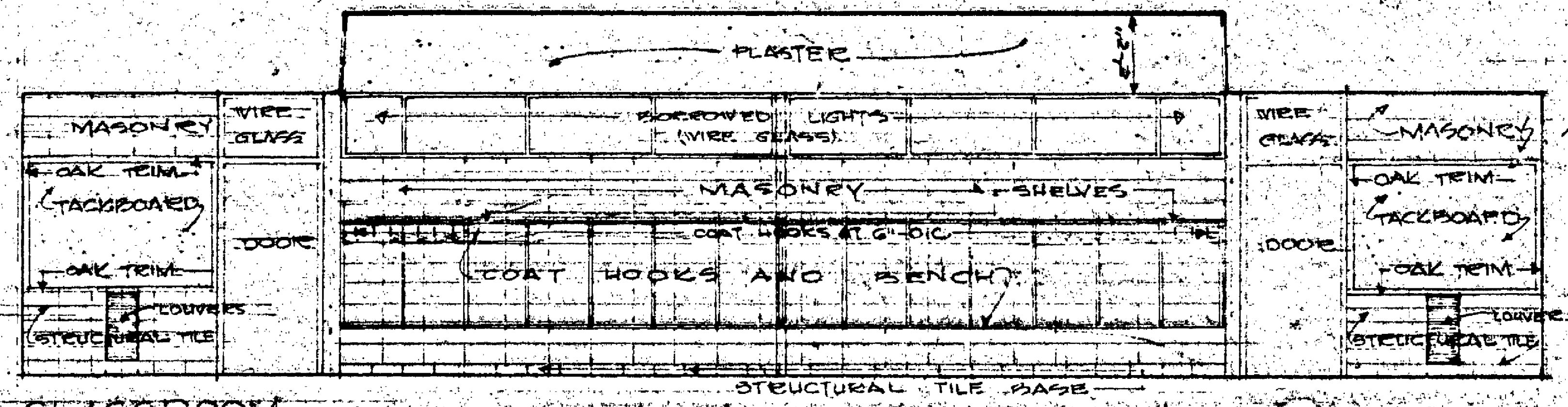
LOBBY A-9 EAST ELEVATION



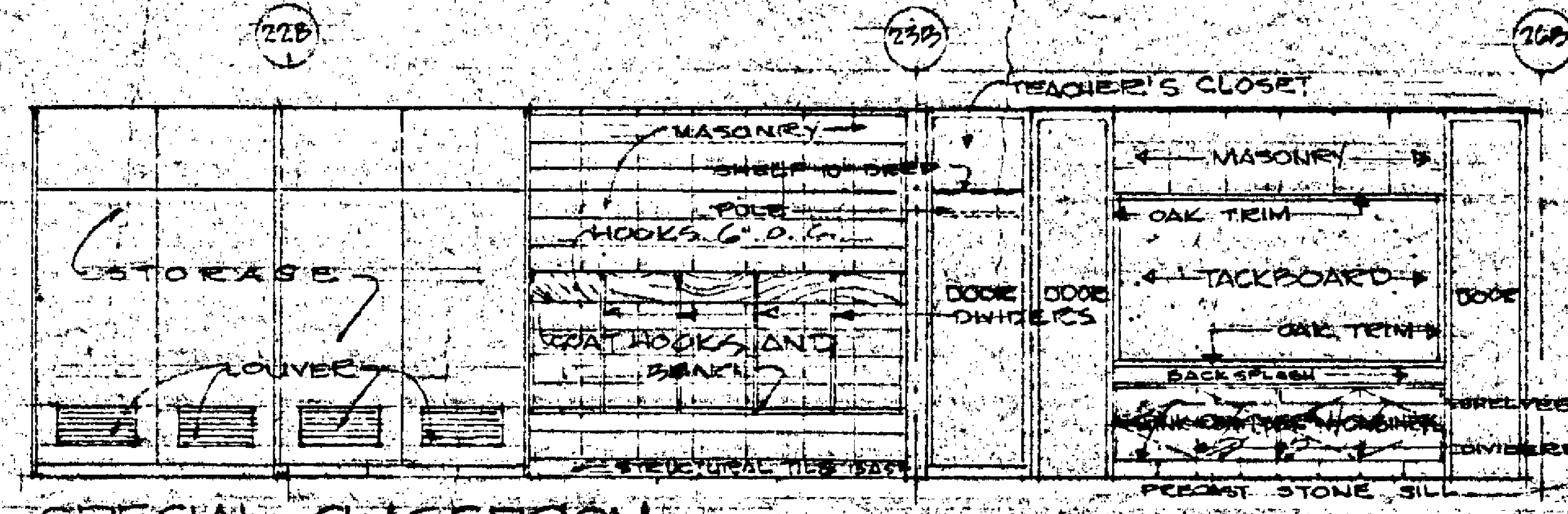
KINDERGARTEN:- C.R. 102- EAST ELEVATION; OPPOSITE HAND C.R. 101 WEST ELEVATION



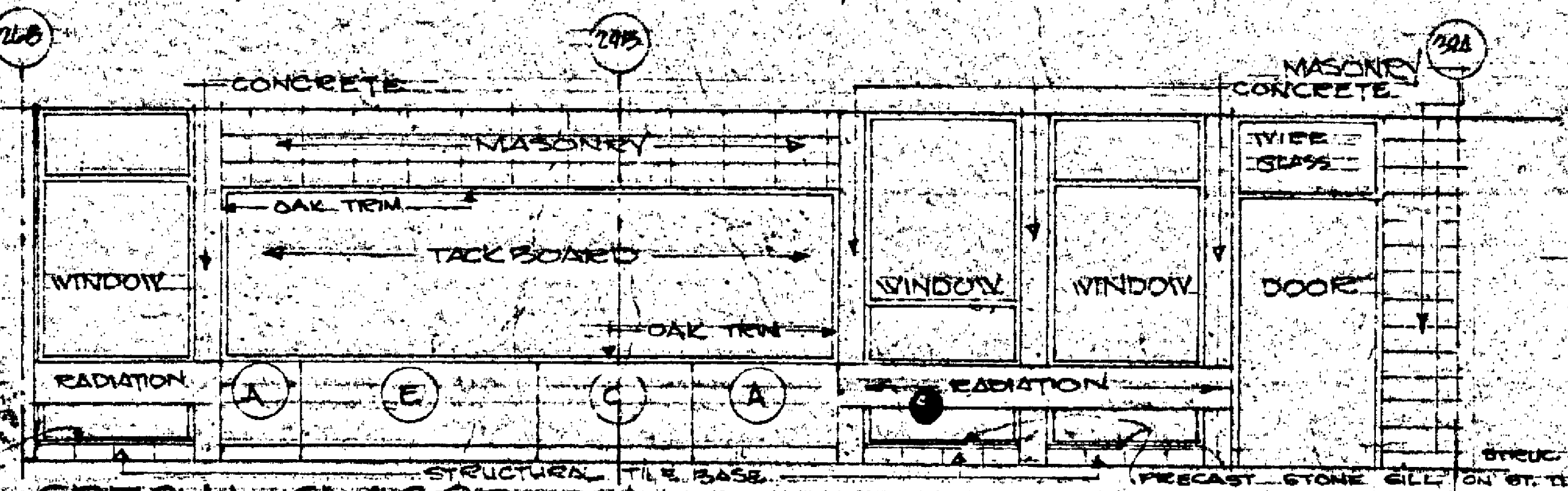
TYPICAL CONTROL PANEL



CLASSROOM:- 129- SOUTH ELEVATION; 143- NORTH ELEVATION



SPECIAL CLASSROOM:- 124- EAST ELEVATION; OPPOSITE HAND C.R. 150 - EAST ELEVATION



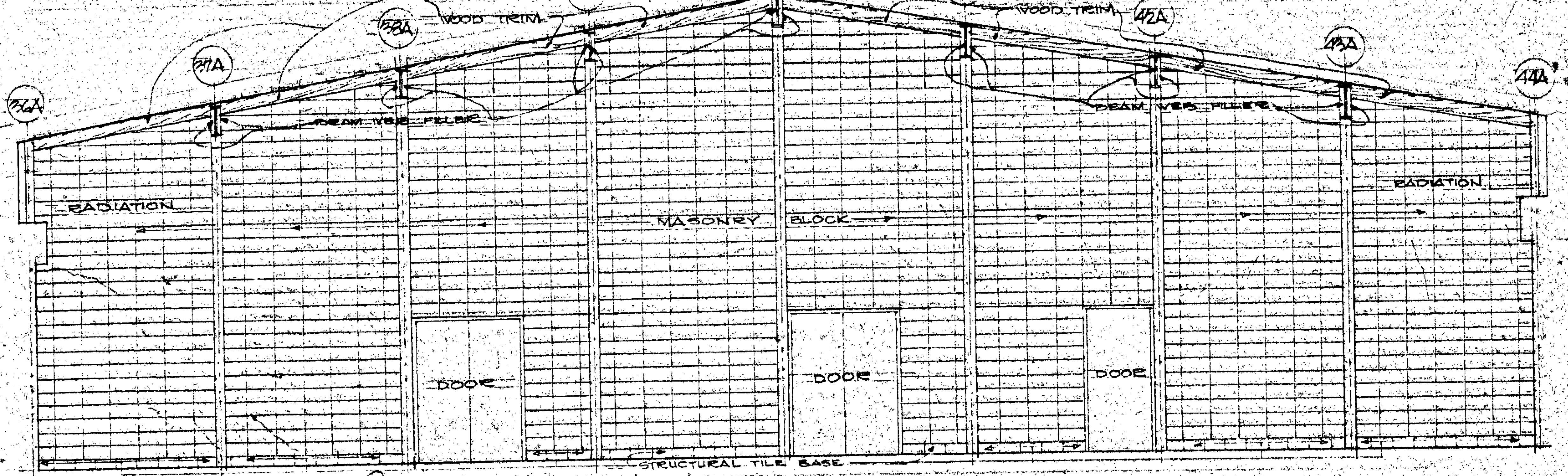
SPECIAL CLASSROOM:- C.R. 124- WEST ELEVATION; OPPOSITE HAND C.R. 150- WEST ELEVATION

REGISTERED ARCHITECT
GEORGE H. STONER
No. 743
BOSTON, MASS.

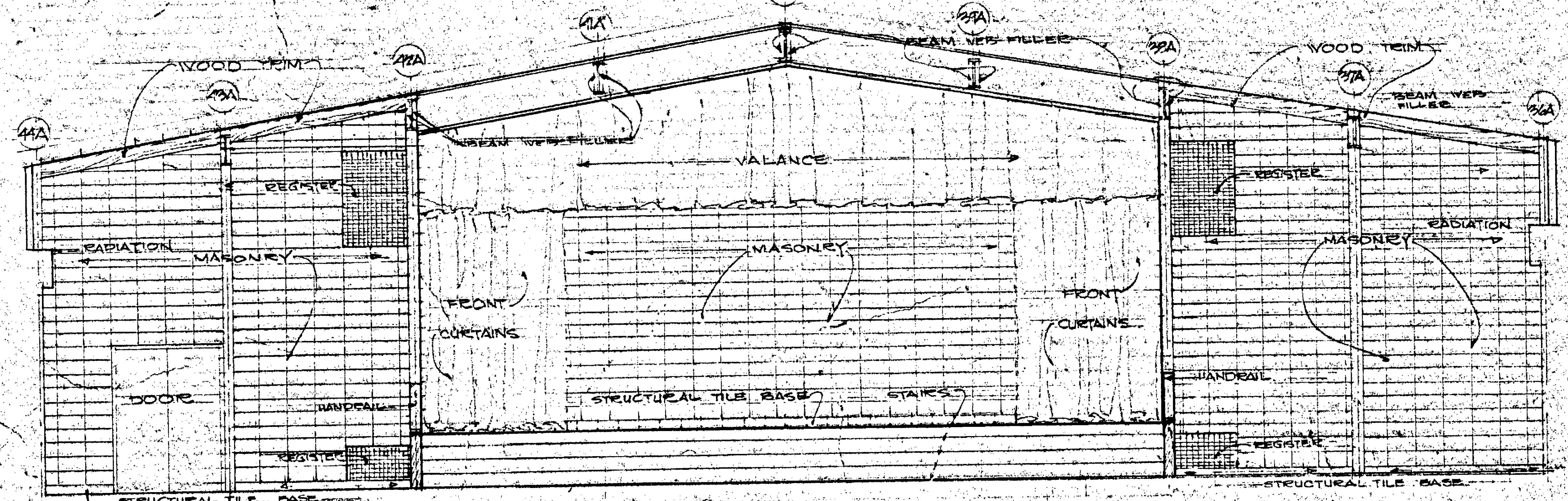
STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

NEW ELEMENTARY SCHOOL
READING, MASS.
INTERIOR ELEVATION

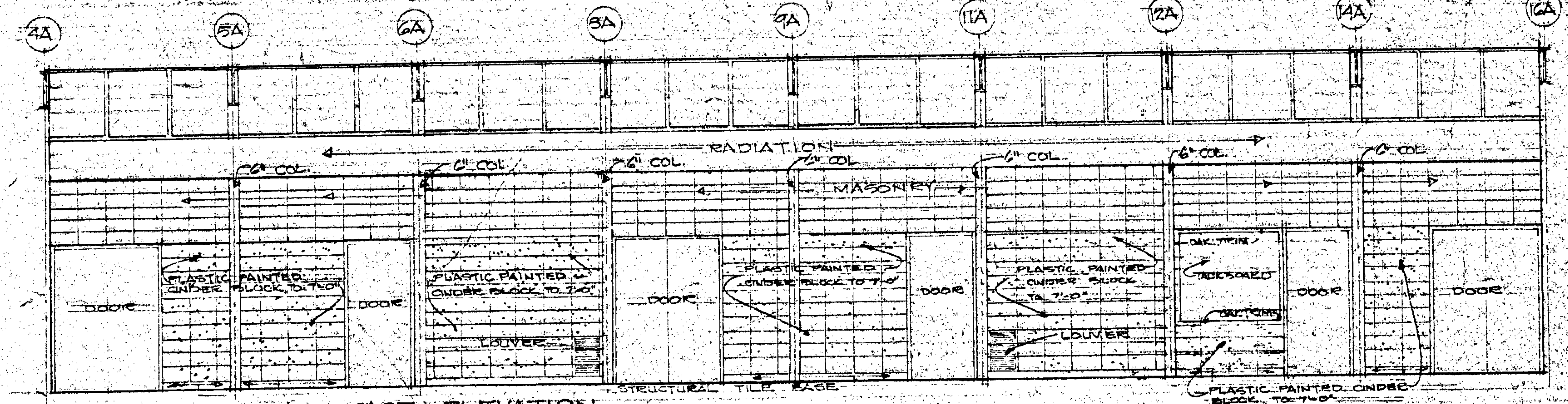
5



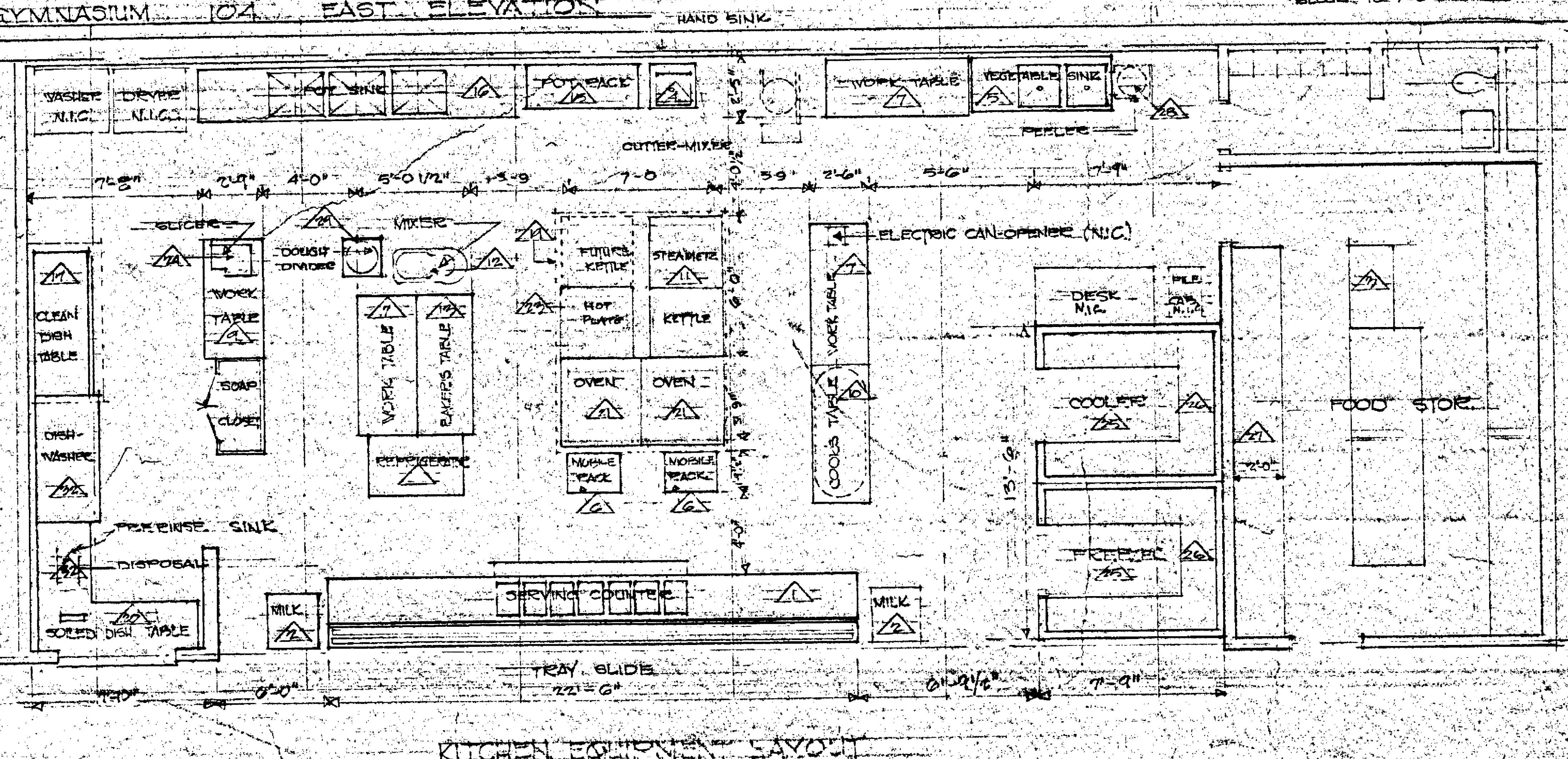
CAFETORIUM 108 EAST ELEVATION



CAFETORIUM 108 WEST ELEVATION

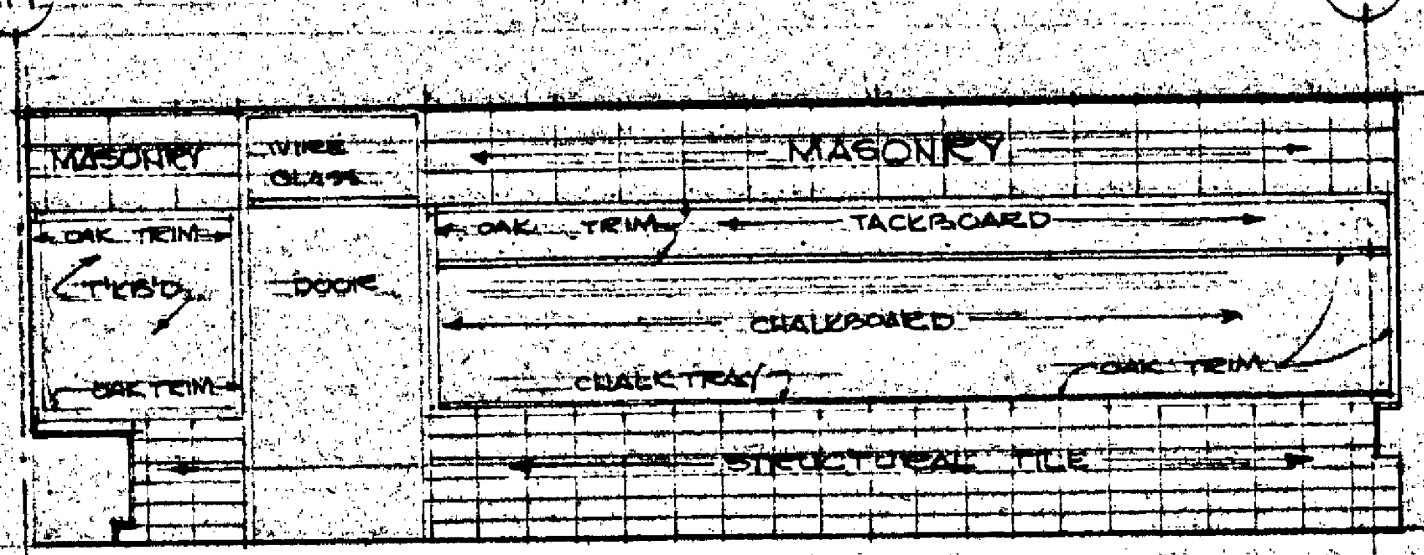


GYMNASIUM 104 EAST ELEVATION

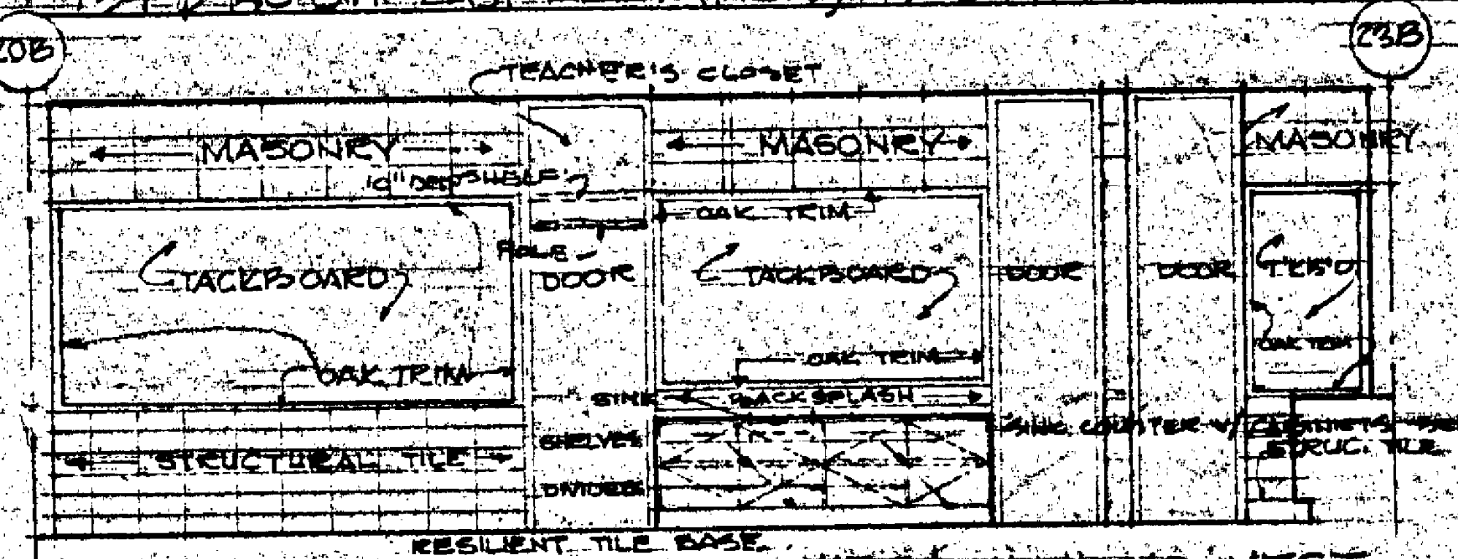


KITCHEN EQUIPMENT LAYOUT

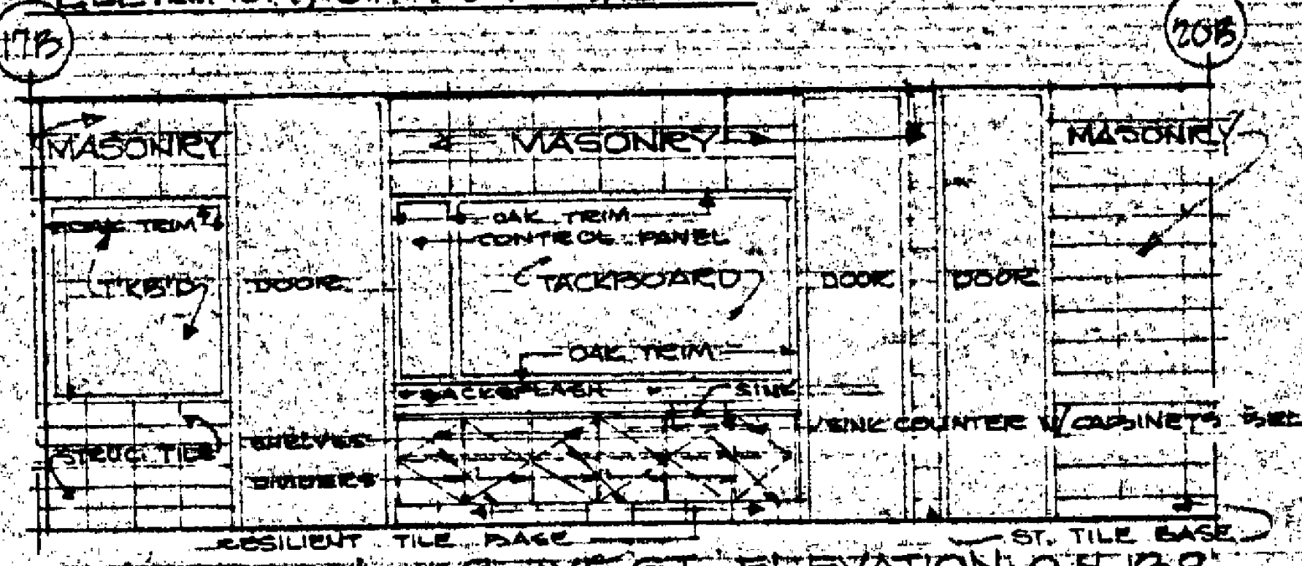
SCALE 1/4"=1'-0"



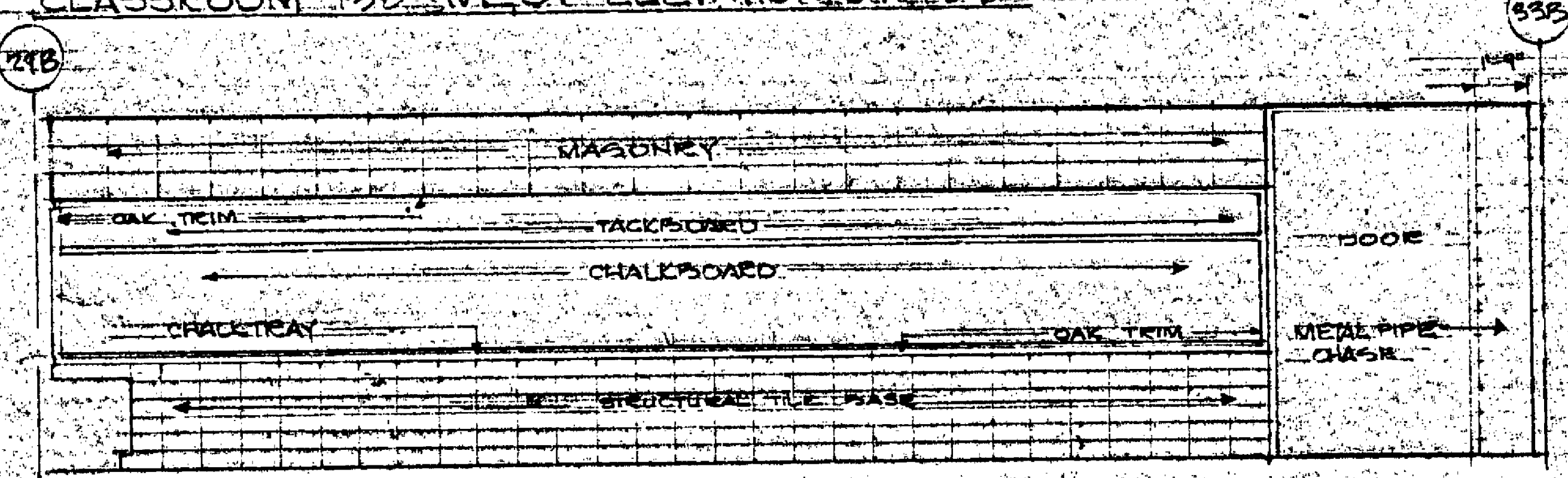
CLASSROOM 126 & 130 O.H. SOUTH ELEVATION, 134 & 140 O.H. EAST ELEVATION, 145 & 148 O.H. NORTH ELEV.



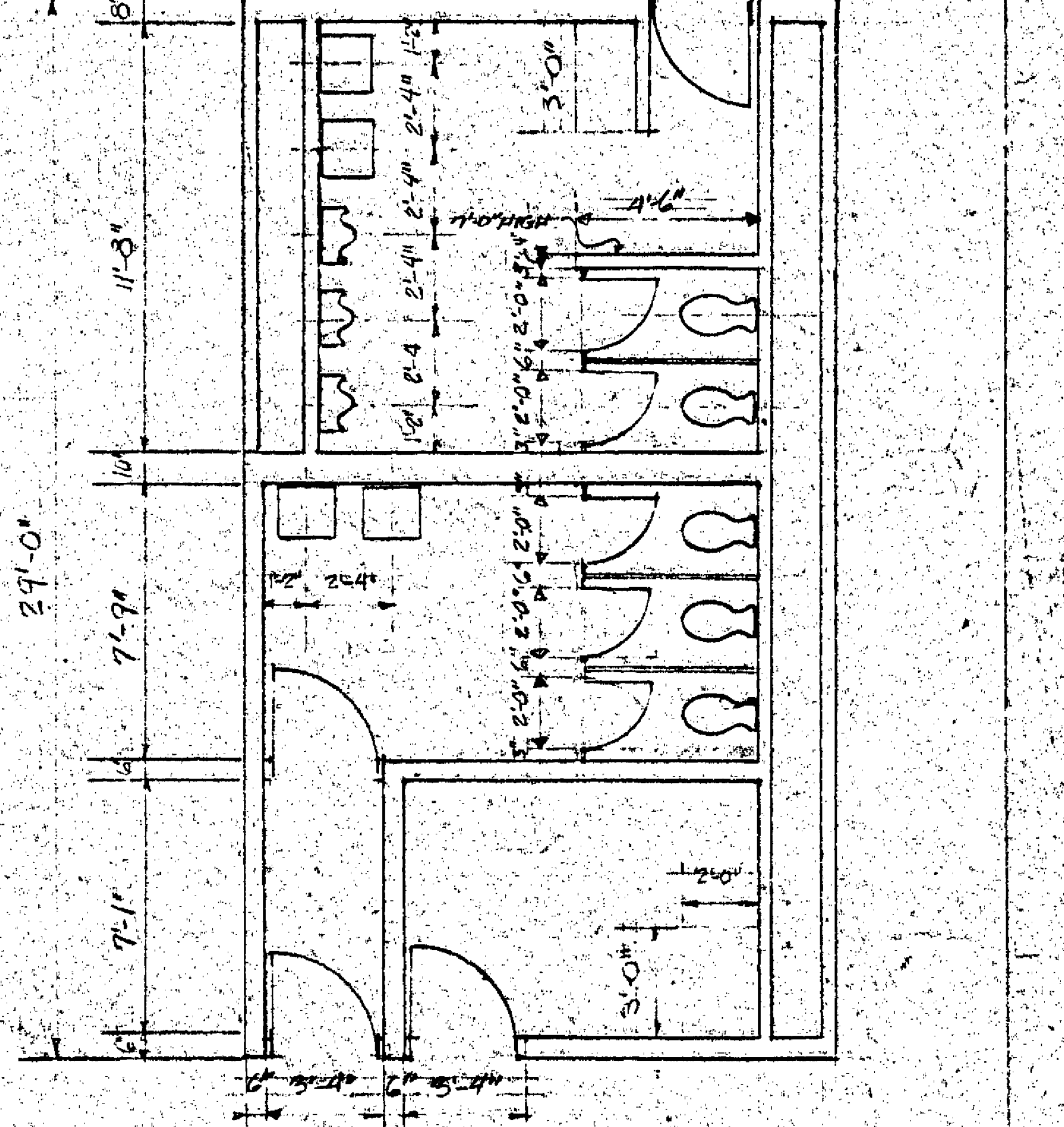
CLASSROOM 133 EAST ELEVATION, O.H. 141, 140 WEST ELEVATION, O.H. 134



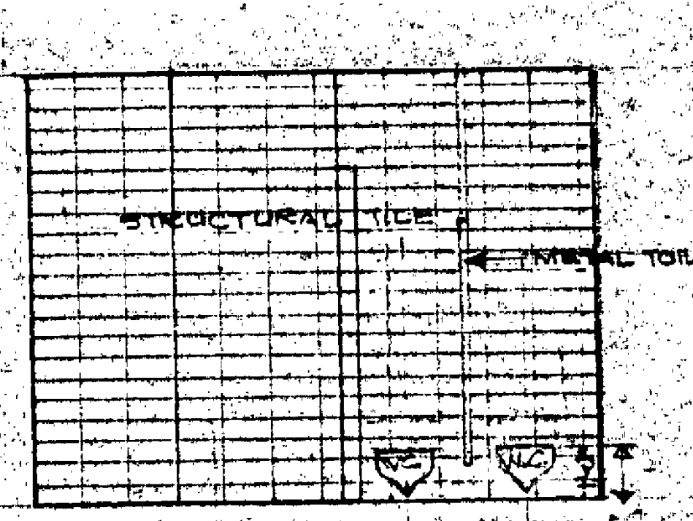
CLASSROOM 138 WEST ELEVATION, O.H. 139



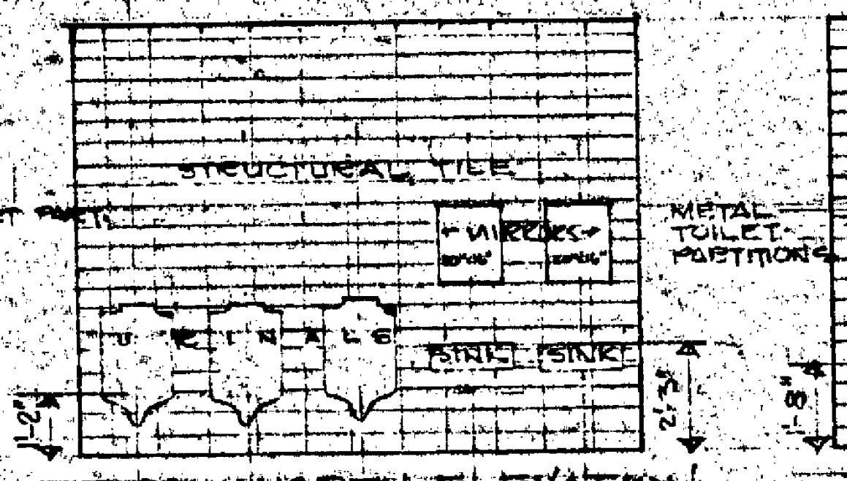
CLASSROOM 127 EAST ELEVATION; 146 WEST ELEVATION; 147 EAST ELEVA. O.H.
CLASSROOM 128 O.H. WEST ELEVATION;



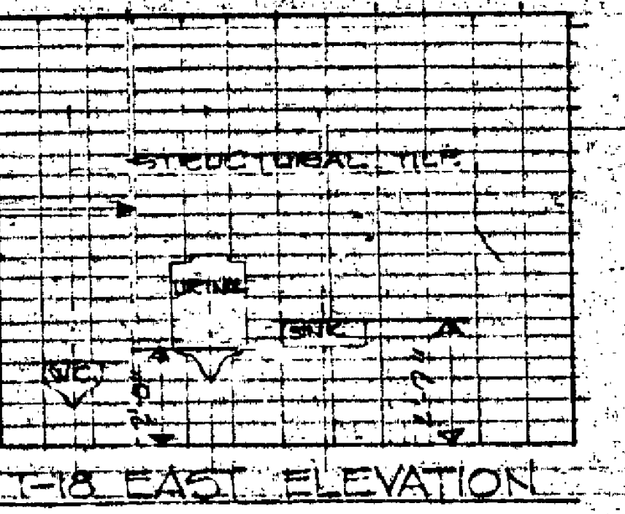
TOILET RM. T-22 AND T-21
OPPOSITE HAND T-35 AND T-36



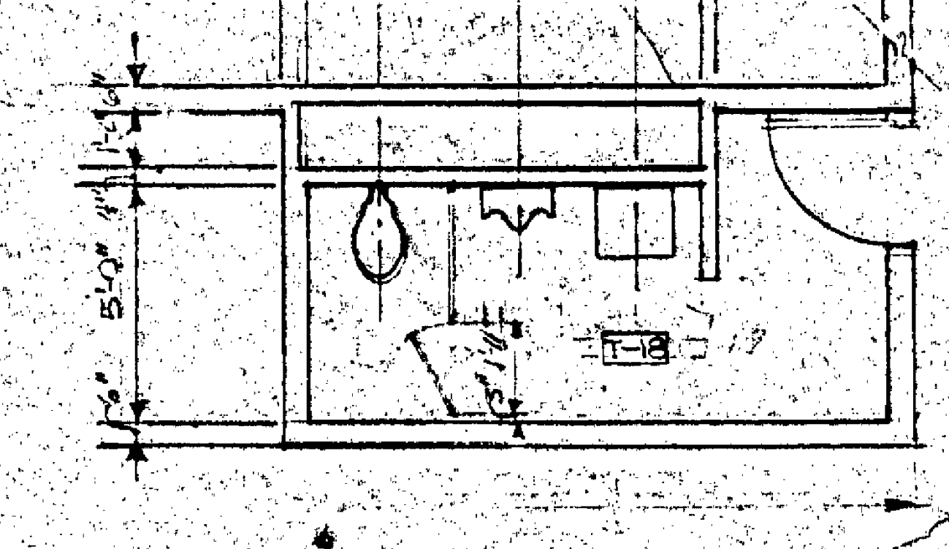
T-27 SOUTH ELEVATION
T-35 NORTH ELEVATION O.H.

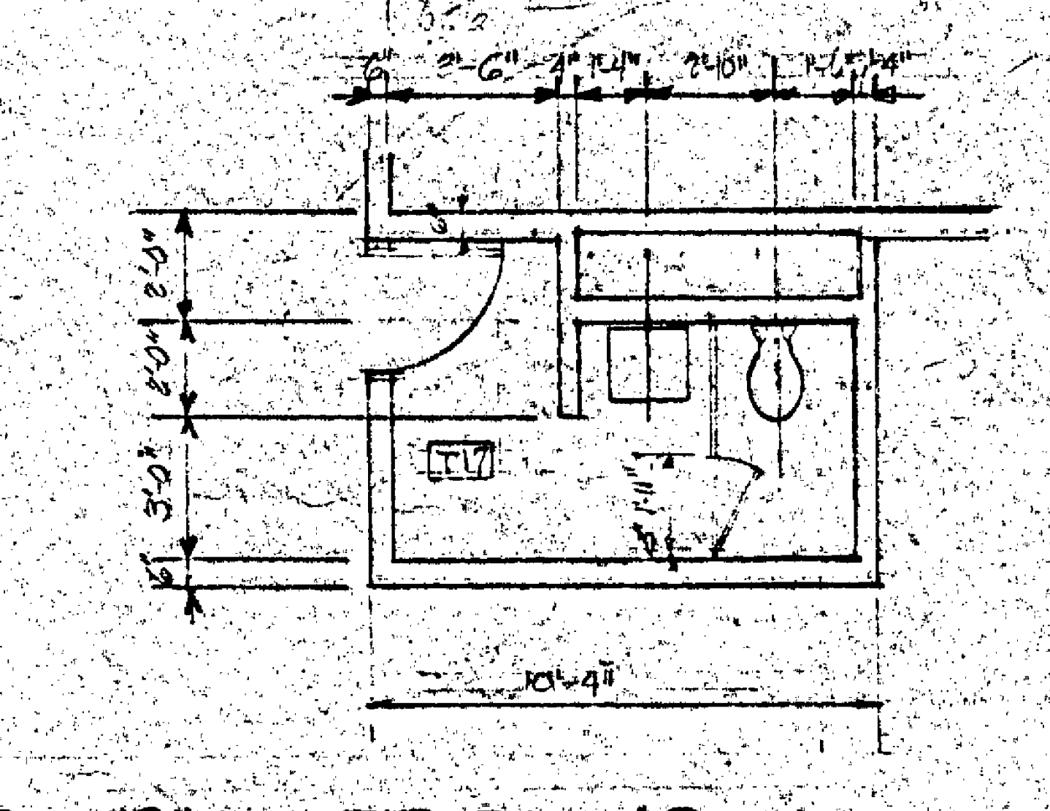


T-22 NORTH ELEVATION
T-35 SOUTH ELEVATION O.H.

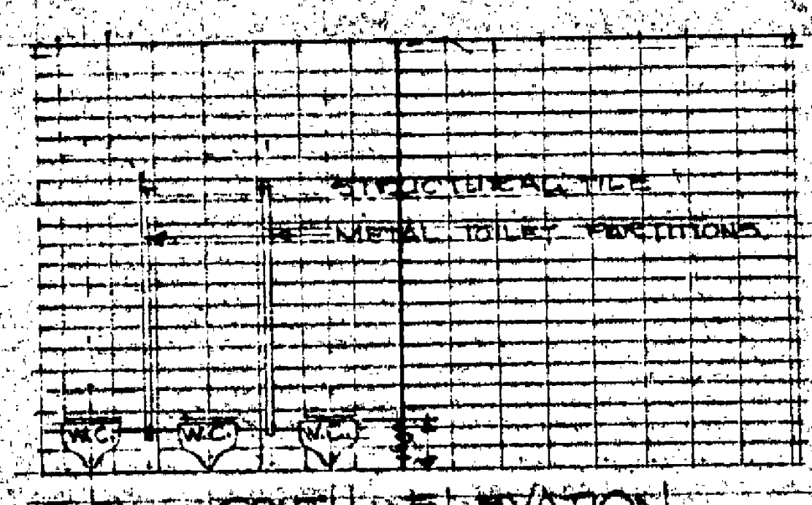


T-18 EAST ELEVATION

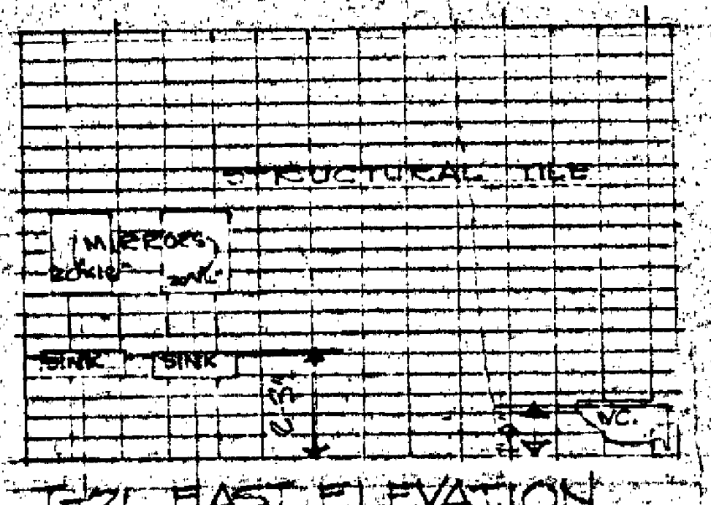




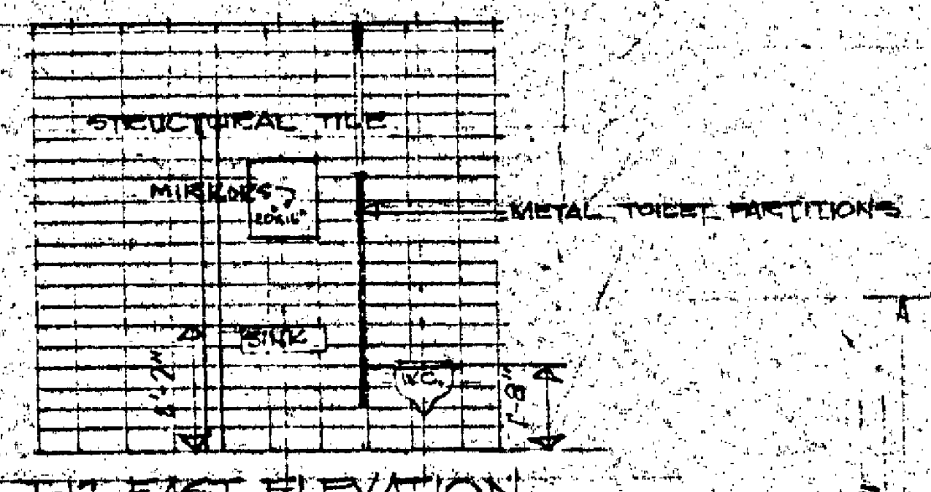
PART "B" TOILET ROOMS



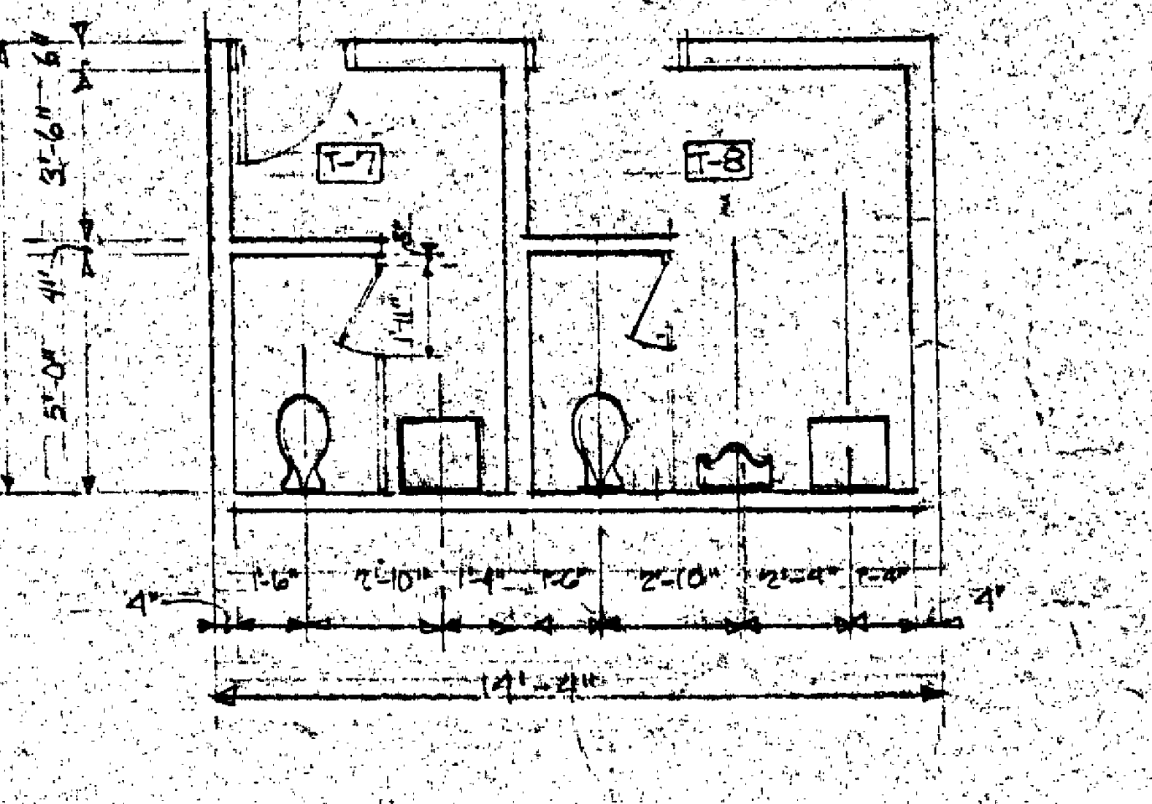
T-21 SOUTH ELEVATION
T-36 O.H. NORTH ELEVATION

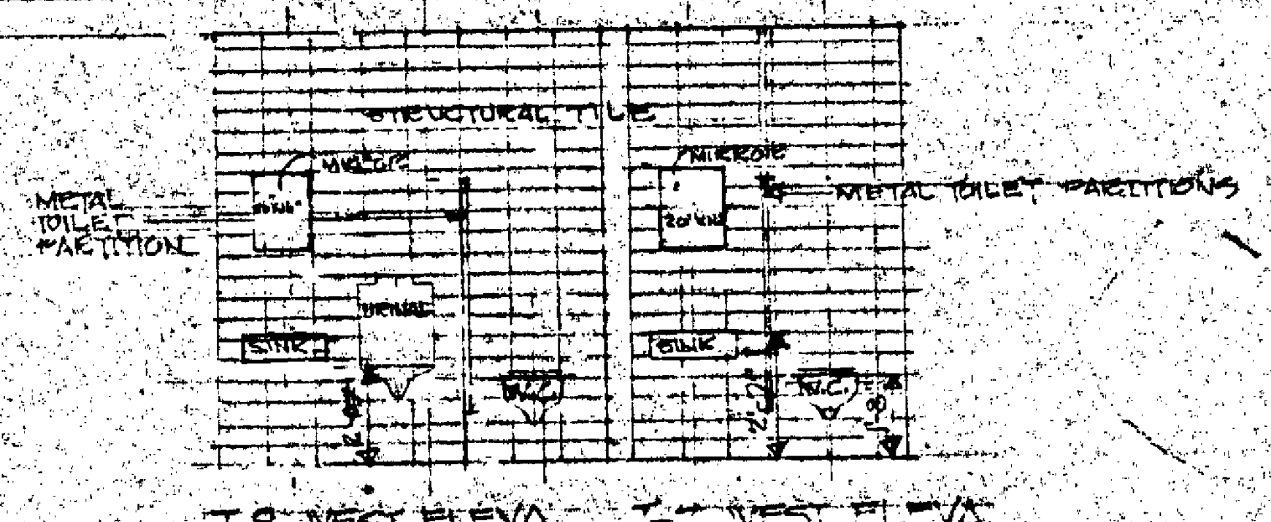


T-21 EAST ELEVATION
T-36 O.H. EAST ELEVATION

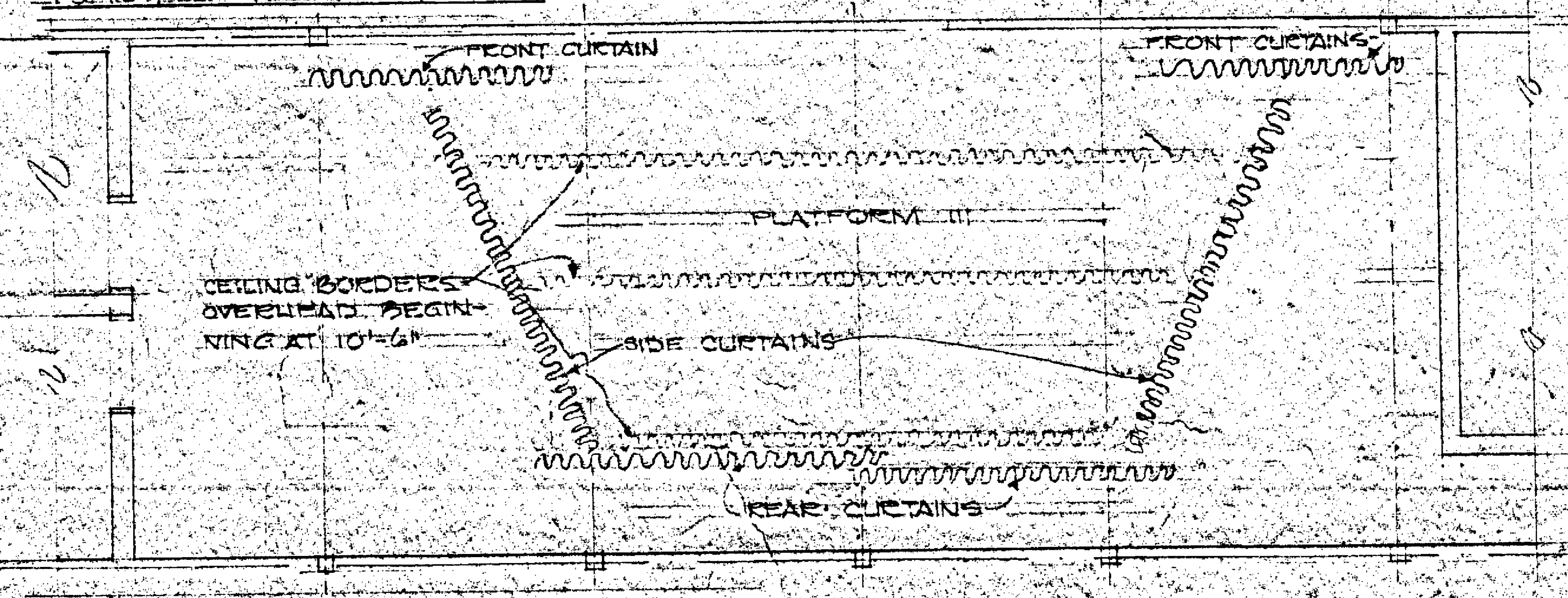


T-17 EAST ELEVATION





T-8 WEST ELEVA. T-7 WEST ELEVA.



STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

PROPOSED ELEMENTARY SCHOOL
[illegible] MASS.

INTERIOR ELEVATIONS AND DETAIL PLANS

DRAWN JACKSON
CHECKED
SCALE 1/4"=1'-0"
DATE 2-15-63

6

C.R. 148 EAST ELEVATION

C.R. 126 EAST ELEV.; 130 O.H. EAST ELEV.; 145 EAST ELEV.

C.R. 124 NORTH ELEV.; 150 O.H. SOUTH ELEV.

C.R. 133 & O.H. 141 WEST ELEVATION

C.R. 133 & O.H. 141 WEST ELEVATION

C.R. 133 NORTH ELEV.; 141 O.H. SOUTH ELEV.

C.R. 133 SOUTH ELEV.; 141 O.H. NORTH ELEV.

C.R. 138 SOUTH ELEVATION; 139 O.H. NORTH ELEVATION

SPECIAL ROOM 136 AND 137 EAST ELEVATION

C.R. 145 & 131 SOUTH ELEVATION, C.R. 130 & 144 NORTH ELEVATION O.H.

TEACHER'S WORK 135 EAST ELEVATION

TEACHER'S WORK 135 WEST ELEVATION

WORK 120 WEST ELEVATION

SPECIAL CLASSROOM 112 NORTH ELEVATION

SPECIAL CLASSROOM 112 SOUTH ELEVATION
SPECIAL CLASSROOM 113 NORTH ELEVATION

SPECIAL CLASSROOM 112 WEST ELEV.

SPECIAL CLASSROOM 113 SOUTH ELEVATION

SPECIAL CLASSROOM 113 WEST ELEV.

KINDERGARTEN 102 WEST ELEVATION

KINDERGARTEN 100 SOUTH ELEVATION

KINDERGARTEN 100 NORTH ELEVATION

KINDERGARTEN 100 EAST ELEVATION

KINDERGARTEN 102 SOUTH ELEVATION

KINDERGARTEN 102 NORTH ELEVATION

C.R. 140 SOUTH ELEVATION
C.R. 134 O.H. NORTH ELEVATION

C.R. 146 EAST ELEVATION; 147 WEST ELEVATION; O.H.

C.R. 148 & 149 O.H. WEST ELEVATION

C.R. 125 & 126 WEST ELEVATION

C.R. 140 NORTH ELEVATION
C.R. 134 SOUTH ELEVATION

FOLDWALL "C" AND "D" NORTH ELEVATION; O.H. SOUTH ELEVATION

FOLDWALL "B" NORTH ELEVATION; O.H. SOUTH ELEVATION

FOLDWALL "E" NORTH ELEVATION; O.H. SOUTH ELEVATION

FOLDWALL "A" SOUTH ELEVATION; OPPOSITE HAND NORTH ELEVATION

DESK COUNTER

DESK COUNTER

DESK COUNTER

KEY:–
1. CABINET KEY
A.– ADJUSTABLE SHELVES (MIN. 2'-0")
B.– LARGE TOTE TRAYS (4'-0" WIDE)
C.– MED. TOTE TRAYS (4'-0" WIDE)
D.– FILLER SECTION
E.– UNIT VENTILATOR
2. O.H.– OPPOSITE HAND

REGISTERED ARCHITECT
GEORGE H. STONER
No. 749
BOSTON, MASS.

STONER ASSOCIATES
ARCHITECTS
BOSTON, MASS.
NEW ELEMENTARY SCHOOL
READING MASS.
INTERIOR ELEVATION AND FOLDWALL ELEVATIONS
DG. NO. 7
JOB NO.
DRAWN BY JACKSON
CHECKED
SCALE 1/4" = 1'-0"
DATE 2-15-68

PLAN SECTION THRU WALL BETWEEN GYMNASIUM AND OFFICE 106 ON ℄ SCALE 1½"=1'-0"
PLAN SECTION THRU EXTERIOR WINDOWS IN LOBBY ON ℄H10 @ DOOR #2
PLAN SECTION THRU LOBBY WINDOWS ON ℄H10 @ DOOR #3 SCALE 1½"=1'-0"
SECTION @ CEILING AND @ FLOOR SHOWING WOOD BENCH SUPPORT AND LIMIT OF SLATE FLOOR
PLAN SECTION THRU EXTERIOR WINDOWS ON ℄H27 @ HEALTH RM. A-1 SCALE 1½"=1'-0"
PLAN SECTION THRU EXTERIOR WINDOWS IN LINK ON ℄ @ EXTERIOR DOOR #
SECTION ON COL ℄ H1 AT WINDOW TYPE "H" TYPICAL DETAIL TYPE "H" WINDOWS SCALE 3/4"=1'-0"
SECTION THRU GLASS LIGHT ON GEN. OFFICE COUNTER TOP
SECTION THRU FILE COUNTER IN GENERAL OFFICE SCALE 3/4"=1'-0"
SECTION THRU BENCH IN LOBBY GYM. #104 SCALE 3/4"
PLAN SECTION OF VERTICAL SLATS
SECTION THRU EXTERIOR ON ℄H27 AND ℄H21 TYPICAL IN CORRIDOR LINK C-2
SECTION THRU WINDOWS
SECTION THRU EXTERIOR WALL AT LOW ROOF TYPICAL
TYPICAL SECTION THRU EXTERIOR WINDOW TYPE "A" WHERE SHOWN ON PLAN
SECTION THRU WALL ON ℄4A BETWEEN ℄H1 AND ℄H20 TYP.
SECTION THRU EXTERIOR WALL ON ℄H3 BETWEEN ℄4A AND ℄16A TYPICAL IN GYMNASIUM 104
SECTION THRU EXTERIOR WALL ON ℄16A BETWEEN ℄H1 AND ℄H10 TYPICAL IN GYMNASIUM 104 SCALE 3/4"=1'-0"
SECTION THRU WALL ON ℄16A BETWEEN ℄H10 AND ℄H20 TYPICAL IN GYMNASIUM 104 SCALE 3/4"=1'-0"
SECTION THRU EXTERIOR WINDOWS ON ℄H10 BETWEEN ℄19A AND ℄33A TYPICAL IN LOBBY A-9 SCALE 3/4"=1'-0"
SECTION THRU EXTERIOR DOORS ON ℄H10 BETWEEN ℄ AND ℄ AND ℄ AND ℄ TYPICAL IN LOBBY A-9 SCALE 3/4"=1'-0"
SECTION THRU EXTERIOR WALL ON ℄36A BETWEEN ℄H7 AND ℄H24 TYPICAL IN CAFETORIUM 108 SCALE 3/4"=1'-0"
SECTION THRU EXTERIOR WALL ON ℄H2 BETWEEN ℄36A AND ℄ TYPICAL IN ROOMS 110 AND 111 SCALE 3/4"=1'-0"
PLAN SECTION THRU WALL BETWEEN KINDERGARTEN AND EXTERIOR ON ℄
PLAN SECTION THRU WALL BETWEEN GYMNASIUM AND LOBBY ON ℄ THRU FIRE WALL
PLAN SECTION THRU WALL BETWEEN GYMNASIUM AND KINDERGARTEN ON ℄
STEEL COLUMN
FIBERBOARD FILLER
CONCRETE BLOCK
WINDOW
BRICK
METAL DOOR FRAME
STRUCT. TILE BASE
METAL BASE FLASHING
DETAIL #2 DWG #9
SEE LARGE DETAIL DWG #9
CUT FIN ABOVE SLATE
SLATE SILL
SLATE
METAL THRESHOLD
STRUCTURAL GLAZED TILE

NOTE: FIGURED DIMENSIONS HAVE PREFERENCE OVER SCALED

REGISTERED ARCHITECT
GEORGE H. STONER
No. 743
BOSTON MASS.

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

PROPOSED ELEMENTARY SCHOOL
READING MASSACHUSETTS

SECTIONS & DETAILS - PART "A"

JOB NO.
DRAWN PERMATTEO
SCALE VARIES
CHECKED
DATE 2-15-60
DR. NO. 8

SECTIONS AND DETAILS OF MAIL SLOTS
SECTION AT INTERIOR WINDOW IN OFFICE
SECTION THRU FASCIA AND GRILL IN KITCHEN
SECTION 7-7
TYPICAL GRAVEL STOP
MASONRY CONTROL JOINT
TYPICAL DETAIL MASONRY TO BEAM
TYPICAL DETAIL OF COLUMN TO MASONRY
TYPICAL DETAIL 8" MASONRY SOAPS
TYPICAL DETAIL AT EXTERIOR WALL AT 4" COLUMN
TYPICAL DETAIL CHANNEL SCUTTLE
SECTION THRU ROOF AT ANTENNA PENETRATION
SECTION THRU ROOF AT VENT STACK PENETRATION
TYPICAL BEAM WEB FILLER DETAIL
DETAIL 2
DETAIL 3
CHIMNEY DETAIL SCALE 3/4"=1'-0"
CHIMNEY CAP DETAIL SCALE 1 1/2"=1'-0"
A-A
B-B
SECTION - A-A
DETAIL "E"
DETAIL "D"
DETAIL "Q"
TYPICAL SECTION AT ROOF VENT
ISOMETRIC VIEW TYPICAL STANDING SEAM
SECTION AT LOBBY WINDOW
STORAGE END WALL CONDITION
STORAGE TO CORR. WALL COND.
MEETING STILE JAMB SCALE 3"=1'-0"
CENTER JAMB AT HINGES SCALE 3"=1'-0"
SECTION THRU WALL ON ℄ H20 BETWEEN ℄ 4A AND ℄ 16A TYPICAL
SECTION THRU CANOPY ON ℄ H4
SECTION THRU WALL (INTERIOR) LOBBY AND ℄ 19 TO ℄ 14 TYPICAL SCALE 3/4"=1'-0"
SECTION THRU WALL ON ℄ 44A BETWEEN ℄ H7 AND ℄ H24 TYPICAL
SECTION ON ℄ H17 IN PART "B" AT STORAGE IN SPEC. CR. #150 & #124
SECTION THRU EXTERIOR WALL ON ℄ H29 BETWEEN ℄ 36A AND ℄ 44A TYPICAL SCALE 3/4"=1'-0"
SECTION THRU WALL ON ℄ 44A BETWEEN ℄ H25 AND ℄ H30 TYPICAL SCALE 3/4"=1'-0"
SECTION THRU STAIR AND FASCIA ON ℄ H7 AT PLATFORM 111 SCALE 3/4"=1'-0"
CORNER OF REFLECTED
TYPICAL PLAN SECTION
DETAIL 8
TYPICAL SECTION THRU ROOF DRAIN
TYPICAL SECTION THRU MAT AND FRAME @ EXTERIOR DOORS
DOOR & FRAME
METAL THRESHOLD & PLATE
MAT & FRAME
CONCRETE SLAB
SLATE (@ LOBBY ONLY)

NOTE:
FIGURED DIMENSIONS HAVE PREFERENCE OVER SCALED

REGISTERED ARCHITECT GEORGE H. STONER No. 743 BOSTON, MASS. COMMONWEALTH OF MASSACHUSETTS

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

PROPOSED ELEMENTARY SCHOOL
READING MASSACHUSETTS

SECTIONS AND DETAILS
PART "A"

JOB NO.
DRAWN PERMATTEO
SCALE VARIES
CHECKED G H S
DATE 2.15.68
DR. NO. 9

SECTION ON COL. ¢ H18 ¢ H6 AT BORROWED LIGHTS
SECTION SIMILAR ON ¢'s 20B ¢ 12B AT BORROWED LIGHTS ¢ BENCH
TYPICAL BENCH & HOOK DETAILS WHERE CALLED FOR
SECTION ON COL. ¢ 9B ¢ 25B
SECTION ON COL. ¢ 5B ¢ 29 R AT BORROWED LIGHTS AND SINK COUNTER
SECTION THRU DESK COUNTER RM's 129 ¢ 147
SECTION ON COL. ¢ 1A AT DOOR #14
SECTION ON COL. ¢ 50A AT DR #5
SECTION ON COL. ¢ H7 AT DOORS #89 ¢ 94
TYPICAL LOUVER DETAIL IN WD STUD WALLS ¢ METAL SID'G SCALE 1 1/2"=1'-0"
HEAD
SILL
JAMB
SECTION ON COL ¢ H20
SECTION ON COL ¢ H7 BETWEEN COL ¢ 14B ¢ 20B
TYPICAL LOW ROOF CONST.
BUILT-UP T. & G. ROOFING
RIGID INSULATION
ROOF DECK
FORM BOARD ON BULB TEES
SECTION ON COL ¢ H21 BETWEEN COL. ¢ 15B AND ¢ 12B
SECTION "1-1" SCALE 1 1/2"=1'-0"
SECTION "2-2" SCALE 1 1/2"=1'-0"
SECTION ON COL. ¢ H2, H6, 11B ¢ 23B AT U.V. TYPICAL UNIT VENT DETAIL AT ALL CLASSRMS. SPECIAL RM'S & TEACHERS' RM'S
SECTION ON COL. ¢ H21, H6 11B ¢ 23B AT WINDOW "A" TYPICAL AT TYPE A WINDOWS
SECTION ON COL. ¢ 2B, 32B ¢ H2
SECTION ON COL. ¢ 2B, H2, 32B AT DOORS
SECTION ON COL. ¢ H16 (FL TO CEIL'G WALL SECTION SIMILAR ON WALL BETWEEN CORR. C-4 ROOMS 126 ¢ 127)
SECTION ON COL. ¢ 20B, 14B AT CLEARSTORY
SECTION ON COL. ¢ H10 BETWEEN ¢ 16B ¢ 13B
DETAIL "#4" SCALE 3"=1'-0"
DETAIL "#2" SCALE 3"=1'-0"
DETAIL "#1" SCALE 3"=1'-0"
DETAIL "#3" SCALE 3"=1'-0"
DETAIL "B" SCALE 3"=1'-0"
DETAIL "ZZ" SCALE 3"=1'-0"
DETAIL "CC" SCALE 3"=1'-0"
9 OPENNINGS = 5'-11 3/4" ±
BRICK VENT ELEVATION SCALE 3/4"=1'-0"
METAL CONTAINER THRU. WALL FLASH'G

STONER ASSOCIATES
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BOSTON MASS.

REGISTERED ARCHITECT
GEORGE H. STONER
No. 743
BOSTON, MASS.

NEW ELEMENTARY SCHOOL
READING MASS.

SECTIONS & DETAILS PART "B"

DR. NO.	JOB NO.	DRAWN	SCALE	CHECKED	DATE
10					2-15-68

NOTES & KEYS

- ALL EAVE BLOCK ON THIS DWG SHALL BE TREATED WOOD & CUT TO SIZE
- ▨ SYMBOL FOR RIDGID INSULATION
- ALL BOLTS THIS DWG UNLESS OTHERWISE STATED SHALL BE 3/8" ⌀ STUD WELDED TO ANGLES WITH NUT & WASHER
- ▨ SYMBOL FOR ROOF PLANK

REGISTERED ARCHITECT GEORGE H. STONER No. 743 BOSTON MASS. COMMONWEALTH OF MASSACHUSETTS

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

NEW ELEMENTARY SCHOOL
READING MASS.

SECTIONS & DETAILS
PART "B"

JOB NO.
DRAWN
CHECKED
SCALE 3"=1'-0"
DATE 2-15-68
DR. NO. 11

PLAN NO.	LOCATION		FRAME INFORMATION										DOOR INFORMATION									
	FROM	TO	HAND	WIDTH	HEIGHT	BELOW FIN. FL.	JAMB SEC.	JAMB WIDTH	ANCHOR SEC.	ELEV	GA.	MAT'L	LBL	UL	THICKNESS	TH'D	SECTION	ELEVATION	MEETING STILES	GAUGE	MAT'L	REMARKS
1	EXTERIOR	102 KINDERGARTEN	RH	3'-6"	6'-10"	—	U,P	6 7/8"		4	14	STEEL	—	—	1 3/4"	METAL		8	—	18	HM	
2	A9 LOBBY	EXTERIOR	PAIR	3'-6"EA	6'-10"	—				1	14	"	—	—	1 3/4"	"		1	—	18	HM	CM,RM
3	A9 LOBBY	EXTERIOR	PAIR	3'-6"EA	6'-10"	—				1	14	"	—	—	1 3/4"	"		1	—	18	"	CM,RM
4	EXTERIOR	113 SPECIAL	LH	3'-6"	6'-10"	—	U,P	6 7/8"		4	14	"	—	—	1 3/4"	"		8	—	18	"	
5	C3 CORRIDOR	EXTERIOR	PAIR	3'-6"EA	6'-10"	—	X,V	6 7/8"		1	14	"	—	—	1 3/4"	"		1	—	18	"	CM
6	OUTDOOR STOR.	EXTERIOR	—	—	—	—					14	"	—	—	1 3/4"	"			—	—	—	OVERH'D SEE SPEC
7	116 RECEIVING	EXTERIOR	PAIR	3'-6"EA	6'-10"	—	U,P	6 7/8		2	14	"	—	—	1 3/4"	"		7	—	18	HM	CM,RM
8	117 BOILER ROOM	EXTERIOR	PAIR	6'-0"	6'-10"	—	P,Y	6 7/8		2	14	"	—	—	1 3/4"	"		7	—	18	"	
9	C-3 CORRIDOR	EXTERIOR	PAIR	3'-6"EA	6'-10"					1	14	"	—	—	1 3/4"	"		1	—	18	"	CM, RM
10	C-3 "	EXTERIOR	PAIR	3'-6"EA	6'-10"	—	P	6 7/8		2	14	"	—	—	1 3/4"	"		7	—	18	"	" RM
11	C-2 "	EXTERIOR	PAIR	3'-6"EA	6'-10"	—				1	14	"	—	—	1 3/4"	"		1	—	18	"	"
12	A-9 LOBBY	EXTERIOR	PAIR	3'-6"EA	6'-10"	—	P,V	6 7/8		1	14	"	—	—	1 3/4"	"		7	—	18	"	"
13	C-1 "	EXTERIOR	PAIR	3'-6"EA	6'-10"	—	P	6 7/8		1	14	"	—	—	1 3/4"	"		7	—	18	"	"
14	101 VESTIBULE	EXTERIOR	PAIR	3'-6"EA	6'-10"	—	Q	6 7/8		10	14	"	—	—	1 3/4"	"		1	—	18	"	"
15	101 VESTIBULE	102 KINDERGARTEN	RH	3'-0"	6'-10"	—	A	6 7/8		4	16	"	—	—	1 3/4"			3	—	—	SC	
16	S-1 STORAGE	102 "	LH	3'-0	8'-9 5/8"	—	A,D	6 7/8		3	16	"	—	—	1 3/4"	—		5	—	—	SC	P
17	T-3 TOILET KINDER.	102 "	LH	2'-2"	8'-9 5/8"	—	D	6 7/8		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	U.C.D.; P;
18	T-4 TOILET "	102 "	LH	2'-2"	8'-9 5/8"	—	C,D	6 7/8		3	16	"	—	—	1 3/4"	"		5	—	—	"	" ; P;
19	T-1 TOILET "	100 "	RH	2'-2"	8'-9 5/8"	—	C,D	6 7/8		3	16	"	—	—	1 3/4"	"		5	—	—	"	" ; P;
20	T-2 TOILET "	100 "	RH	2'-2"	8'-9 5/8"	—	D	6 7/8		3	16	"	—	—	1 3/4"	"		5	—	—	"	" ; P;
21	S-1 KINDER. STOR.	100 "	RH	3'-0"	8'-9 5/8"	—	A,D	6 7/8		3	16	"	—	—	1 3/4"	—		5	—	—	"	; P;
22	101 KINDER. VEST.	100 "	LH	3'-0"	6'-10"	—	A	6 7/8		4	16	"	—	—	1 3/4"	—		3	—	—	"	
23	C-1 CORRIDOR	100 "	RH	3'-0"	6'-10"	—	A-5	6 7/8		4	16	"	B	B	1 3/4"	METAL		16	—	18	HM	B LABEL TRANSOM PANEL
24	104 GYMNASIUM	C-1	PAIR	5'-7 3/4"	6'-10"	—	G,B	6 7/8		2	16	"	—	—	1 3/4"	MET'L		2	V	—	SC	CHANNEL STIFFENER
25	104 GYMNASIUM	103 GIRLS DRESSING	RH	3'-0"	6'-10"	—	A6,J	6"		6	16	"	—	—	1 3/4"	"		11	—	18	SC	
26	T-5 GIRLS TOILET	103 GIRLS DRESSING	RH	2'-0"	8'-9 5/8"	—	A,C	6 7/8		3	16	"	—	—	1 3/4"	TILE		12	—	18	SC	
27	C-1 CORRIDOR	J-1 JANITOR'S STOR.	RH	3'-6"	6'-10"	—	A	6 7/8		4	16	"	—	—	1 3/4"	—		9	—	—	SC	
28	S-2 GYM. STOR.	104 GYMNASIUM	SINGLE	5'-0"	6'-10"	—	A6,J	6"		2	16	"	—	—	1 3/4"			6	—	—	SC	SLIDING CASED OPENING
29	104 GYMNASIUM	105 BOYS' DRESSING	RH	3'-0"	6'-10"	—	A6,J	6"		6	16	"	—	—	1 3/4"	METAL		11	—	—	SC	
30	T-6 BOYS TOILET	105 BOYS' DRESSING	LH	2'-0"	8'-9 5/8"	—	A,C	6 7/8		3	16	"	—	—	1 3/4"	TILE		12	—	18	SC	
31	C-1 CORRIDOR	T-7 WOMEN'S TOILET	RH	2'-4"	6'-10"	—	A,B	6 7/8		4	16	"	—	—	1 3/4"	"		11	—	—	SC	UDC
32	104 GYMNASIUM	106 OFFICE	RH	3'-0"	6'-10"	—	A6,J	6"		6	16	"	—	—	1 3/4"	MET'L		11	—	—	SC	
33	104 "	A-9 LOBBY	PAIR	5'-7 3/4	6'-10"	—	A,G1	6 7/8"		2	16	"	B	B	1 3/4"	"		15	—	18	HM	FBA, CHANNEL STIFFENER
34	C-1 CORRIDOR	T-8 MEN'S TOILET	RH	2'-4"	6'-10"	—	A,B	6 7/8"		4	16	"	—	—	1 3/4"	TILE		9	—	—	SC	
35	A-9 LOBBY	C-1 CORRIDOR	PAIR	5'-7 3/4	6'-10"	—	E,C	8 7/8"		2	16	"	B	B	1 3/4"	MET'L		15	—	18	HM	FBA, CHANNEL STIFFENER
36	C-2 CORRIDOR	A-9 LOBBY	PAIR	5'-0"	6'-10"	—	A	6 7/8"		1	16	"	B	B	1 3/4"	"		15	V	18	HM	FBA; SEE PLAN SECTION DWG. 8
37	A-9 LOBBY	A-1 HEALTH ROOM	RH	3'-0"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	
38	T-9 BOYS' TOILET	A-2 BOYS	RH	2'-0"	8'-9 5/8"	—	A,C	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD
39	A-1 HEALTH ROOM	A-2 "	LH	2'-8"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	P;
40	T-10 GIRLS' TOILET	A-3 GIRLS	LH	2'-0	8'-9 5/8"	—	A,C	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD
41	A-1 HEALTH RM.	A-3 "	RH	2'-8"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	P;
42	A-5 GENERAL OFFICE	A-1 HEALTH ROOM	LH	3'-0"	8'-9 5/8"	—	A,B	6 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	
43	A-9 LOBBY	A-5 GENERAL OFFICE	LH	3'-0"	6'-10"	—	B	6 7/8"		4	16	"	—	—	1 3/4"	MET'L		11	—	—	SC	SEE PLAN SECTION DWG. 8
44	A-5 GENERAL OFFICE	S-3 OFFICE STOR.	LH	3'-0"	8'-9 5/8"	—	E	6 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	
45	T-11 TOILET	A-4 PRINCIPAL	LH	2'-0"	8'-9 5/8"	—	A	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD
46	A-9 LOBBY	A-5 GENERAL OFFICE	RH	3'-0"	6'-10"	—	B	6 7/8"		4	16	"	—	—	1 3/4"	MET'L		11	—	—	SC	SEE PLAN SECTION DWG 8
47	A-5 GENERAL OFFICE	A-6 GUIDANCE	RH	3'-0"	8'-9 5/8	—	A,B	6 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	
48	A-4 OFFICE	A-5 GENERAL OFFICE	LH	3'-0"	8'-9 5/8"	—	B,C	6 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	
49	A-6 GUIDANCE	A-7 COUNCIL ROOM	LH	2'-8"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	P;
50	A-6 GUIDANCE	A-8 " "	RH	2'-8"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	P;
51	A-9 LOBBY	A-6 GUIDANCE	LH	3'-0"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	
52	108 CAFETORIUM	A-9 LOBBY	PAIR	6'-0"	6'-10"	—	O	6 7/8"		2	16	"	B	B	1 3/4"	MET'L		15	V	18	HM	FBA; B LABEL TRANSOM PANEL CHANNEL STIFFENER
53	C-4 CORRIDOR	A-9 LOBBY	PAIR	5'-7 3/4"	6'-10"	—	C	6 7/8"		2	16	"	B	B	1 3/4"	"		15	V	18	HM	FBA " " "
54	C-3 LINK CORRIDOR	A-9 LOBBY	PAIR	5'-0"	6'-10"	—	P	6 7/8"		1	16	"	B	B	1 3/4"	"		15	V	18	HM	FBA
55	C-4 CORRIDOR	107 TEACHERS' RM	RH	3'-0"	6'-10"	—	A,B	6 7/8"		4	16	"	—	—	1 3/4"	—		11	—	—	SC	
56	C-4 "	K-1 SCULLERY	—	—	—	—	—	—		—	—	—	—	—	—	—		—	—	—	—	PASSTHRU WINDOW SEE SPECS
57	C-4 "	108 CAFETORIUM	PAIR	5'-0"	6'-10"	—	J,A6	6 7/8"		2	16	STEEL	—	—	1 3/4"			6	V	—	SC	
58	C-4 "	108 "	PAIR	5'-0"	6'-10"	—	A6,J-J	6 7/8"		2	16	"	—	—	1 3/4"			6	V	—	SC	
59	C-4 "	108 "	LH	3'-0"	6'-10"	—	A6,J-J	6 7/8"		6	16	"	—	—	1 3/4"			11	—	—	SC	
60	111 PLATFORM	109 PRACTICE	LH	3'-0"	6'-10"	—	A,D	8 7/8"		6	16	"	—	—	1 3/4"	MET'L		11	—	—	SC	WEATHERSTRIP AND SOUNDPROOF
61	111 "	110 PRACTICE	RH	3'-0"	6'-10"	—	A,D	8 7/8"		6	16	"	—	—	1 3/4"	"		11	—	—	SC	WEATHERSTRIP AND SOUNDPROOF
62	111 "	112 SPECIAL CLASS	RH	3'-6"	6'-10"	—	B	8 7/8"		6	16	"	B	B	1 3/4"	"		8	—	18	HM	SEE DETAIL "W" DWG 11.
63	S-4 STORAGE	108 CAFETORIUM	PAIR	5'-0"	6'-10"	—	A6,J-J	6 7/8"		2	16	"	—	—	1 3/4"			6	V	—	SC	
64	108 CAFETORIUM	C-5 CORRIDOR	PAIR	5'-0"	6'-10"	—	B	8 7/8"		2	16	"	B	B	1 3/4"	MET'L		15	V	18	HM	FBA; SEE DETAIL "V" DWG.11; CHANNEL STIFFENER
65	K-2 KITCHEN	K-4 FOOD STOR.	LH	3'-0"	6'-10"	—	A,D	6 7/8"		4	16	"	—	—	1 3/4"	TILE		11	—	—	SC	
66	K-2 "	K-3 COOK'S RM.	RH	2'-4"	6'-10"	—	A,D	6 7/8"		4	16	"	—	—	1 3/4"	—		11	—	—	SC	
67	K-3 COOK'S RM.	T-12 TOILET	RH	2'-4"	8'-9 5/8"	—	A,C	8 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	
68	C-4 CORRIDOR	J-3 JANITOR	LH	3'-0"	6'-10"	—	B	8 7/8"		4	16	"	—	—	1 3/4"	—		11	—	—	SC	
69	C-4 "	J-2 "	RH	3'-0"	6'-10"	—	A	8 7/8"		4	16	"	—	—	1 3/4"	—		11	—	—	SC	
70	C-4 "	117 BOILER RM.	RH	3'-0"	6'-10"	—	A,B	8 7/8"		6	16	"	B	B	1 3/4"	MET'L		8	—	18	HM	
71	117 BOILER RM.	118 INCINERATOR RM.	RH	3'-0"	6'-10"	—	A,E	6 7/8"		6	16	"	B	B	1 3/4"	"		8	—	"	"	
72	C-4 CORRIDOR	116 RECEIVING	PAIR	5'-0"	6'-10"	—	A,D	6 7/8"		1	16	"	—	—	1 3/4"	—		2	V	—	SC	
73	C-5 "	114 ELECTRIC RM	LH	3'-6"	6'-10"	—	A,D	6 7/8"		6	16	"	B	B	1 3/4"	MET'L		8	—	18	HM	
74	C-5 "	112 SPECIAL CLASS	RH	3'-0"	6'-10"	—	A,B	6 7/8		4	16	"	—	—	1 3/4"	—		3	—	—	SC	
75	112 SPECIAL CLASS	S-5 STORAGE	LH	3'-0"	8'-9 5/8"	—	A,E	6 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	
76	T-14 TOILET	112 SPECIAL CLASS	LH	2'-2"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD; P;
77	T-13 "	112 " "	LH	2'-2"	8'-9 5/8	—	C,D	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD; P;
78	T-15 "	113 " "	RH	2'-2"	8'-9 5/8	—	C,D	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD; P;
79	T-16 "	113 " "	RH	2'-2"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD; P;
80	C-5 CORRIDOR	113 " "	LH	3'-0"	6'-10"	—	A,B	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	
81	113 SPECIAL CLASS	S-6 STORAGE	LH	3'-0"	8'-9 5/8	—	A,E	6 7/8"		3	16	"	—	—	1 3/4"	—		5	—	—	SC	
82	112 SPECIAL CLASS	113 SPECIAL CLASS	RH	3'-0"	8'-9 5/8	—	A,Z	6 7/8"		3	16	"	—	—	1 3/4"	MET'L		5	—	—	SC	WEATHERSTRIP, GASKET, SOUNDPROOF
83	EXTERIOR	150 " "	RH	3'-6"	6'-10"	—	P,S	6 7/8"		4	14	"	—	—	1 3/4"	MET'L		8	—	18	HM	
84	"	124 " "	LH	3'-6"	6'-10"	—	P,S	6 7/8"		4	14	"	—	—	1 3/4"	MET'L		8	—	18	HM	
85	"	126 C.R.	RH	3'-6"	6'-10"	—	P	6 7/8"		4	14	"	—	—	1 3/4"	"		8	—	18	HM	
86	"	127 C.R.	LH	3'-6"	6'-10"	—	T,P	6 7/8"		4	14	"	—	—	1 3/4"	"		8	—	18	HM	
87	"	128 C.R.	RH	3'-6"	6'-10"	—	T,P	6 7/8"		4	14	"	—	—	1 3/4"	"		8	—	18	HM	
88	"	130 C.R.	LH	3'-6"	6'-10"	—	T	6 7/8"		4	14	"	—	—	1 3/4"	"		8	—	18	HM	
89	132 VESTIBULE	EXTERIOR	PAIR	3'-6"EA	6'-10"	—	N,C	6 7/8"		9	14	"	—	—	1 3/4"	"		1	—	18	HM	CM; P;
90	EXTERIOR	124 C.R.	RH	3'-6"	6'-10"	—	P	6 7/8"		4	14	"	—	—	1 3/4"	"		8	—	18	HM	
91	EXTERIOR	138 C.R.	RH	3'-6"	6'-10"	—	R,T	6 7/8"		4	14	"	—	—	1 3/4"	"		8	—	18	HM	
92	EXTERIOR	139 C.R.	LH	3'-6"	6'-10"	—	R,T	6 7/8"		4	14	"	—	—	1 3/4"	"		8	—	18	HM	
93	EXTERIOR	140 C.R.	LH	3'-6"	6'-10"	—	P	6 7/8"		4	14	"	—	—	1 3/4	"		8	—	18	HM	
94	142 VESTIBULE	EXTERIOR	PAIR	3'-6"EA	6'-10"	—	C,N	6 7/8"		9	14	"	—	—	1 3/4	"		1	—	18	HM	CM; P;
95	EXTERIOR	145 C.R.	RH	3'-6"	6'-10"	—	P	6 7/8"		4	14	"	—	—	1 3/4	"		8	—	18	HM	
96	"	146 C.R.	LH	3'-6"	6'-10"	—	T,P	6 7/8"		4	14	"	—	—	1 3/4	"		8	—	18	HM	
97	"	147 C.R.	RH	3'-6"	6'-10"	—	T,P	6 7/8"		4	14	"	—	—	1 3/4	"		8	—	18	HM	
98	"	148 C.R.	LH	3'-6"	6'-10"	—	P	6 7/8"		4	14	"	—	—	1 3/4	"		8	—	18	HM	
99	C-2 CORRIDOR	119 ARTS & CRAFTS	LH	3'-0"	6'-10"	—	B	6 7/8"		4	16	"	—	—	1 3/4	"		11	—	—	SC	SEE DETAIL "V" DWG 11
100	" "	T-17 WOMEN'S TOILET	LH	2'-4"	6'-10"	—	A,B	6 7/8"		4	16	"	—	—	1 3/4	TILE		11	—	—	SC	UCD
101	" "	J4 JANITOR	LH	3'-6"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4			9	—	—	SC	
102	" "	120 WORK ROOM	LH	3'-0"	6'-10"	—	L,M	6 7/8"		4	16	"	—	—	1 3/4			11	—	—	SC	
103	121 OFFICE	" "	RH	3'-0"	6'-10"	—	M,F	6 7/8"		4	16	"	—	—	1 3/4			11	—	—	SC	
104	"	122 CONFERENCE	LH	3'-0"	6'-10"	—	M,F	6 7/8"		4	16	"	—	—	1 3/4	"		11	—	—	SC	
105	" "	S-2 AUDIOVISUAL	LH	3'-0"	6'-10"	—	L,M	6 7/8"		4	16	"	—	—	1 3/4	—		11	—	—	SC	
106	C-3 CORRIDOR	122 CONFERENCE	RH	3'-0"	6'-10"	—	L,M	6 7/8"		4	16	"	—	—	1 3/4	—		11	—	—	SC	
107	" "	S-8 GENERAL STOR.	RH	3'-0"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4	—		11	—	—	SC	
108	" "	T-18 MEN'S TOILET	RH	2'-4"	6'-10"	—	A,B	6 7/8"		4	16	"	—	—	1 3/4	TILE		9	—	—	SC	
109	C-3 CORRIDOR	119 ARTS & CRAFTS	RH	3'-0"	6'-10"	—	B	6 7/8"		4	16	STEEL	—	—	1 3/4"	—		11	—	—	SC	SEE DETAIL "V" DWG. 11
110	" "	124 SPECIAL CLASS	LH	3'-0"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	
111	T-19 TOILET	" " "	RH	2'-0"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	TILE		12	—	—	SC	
112	T-20 "	" " "	LH	2'-0"	8'-9 5/8	—	A,G	6 7/8"		3	16	"	—	—	1 3/4"	"		12	—	—	SC	
113	125A TEACHER'S CLOS.	125 C.R.	RH	2'-8"	6'-10"	—	B,G	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	SEE PLAN SECTION DWG. 11
114	129 C.R.	125 C.R.	LH	3'-0"	6'-10"	—	A,D-D	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
115	129 C.R.	126 C.R.	RH	3'-0"	6'-10"	—	D-D,I	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
116	127A TEACHER'S CLOS.	127 C.R.	RH	1'-8"	8'-9 5/8"	—	B,E	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	
117	129 C.R.	127 C.R.	RH	3'-0"	6'-10"	—	B,J	6 7/8"		4	16	"	—	—	1 3/4"			3	—	—	SC	
118	127 C.R.	128 C.R.	PAIR	5'-0"	8'-9 5/8"	—	A,Z	6 7/8"		8	16	"	—	—	1 3/4"			14	—	—	SC	
119	129 C.R.	128 C.R.	LH	3'-0"	6'-10"	—	B,J	6 7/8"		4	16	"	—	—	1 3/4"	—		5	—	—	SC	
120	128A TEACHER'S CLOS.	128 C.R.	LH	1'-8"	8'-9 5/8	—	B,E	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	
121	129 C.R.	130 C.R.	LH	3'-0"	6'-10"	—	D-D,I	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
122	131 C.R.	130 C.R.	PAIR	5'-0"	8'-9 5/8	—	A,Z	6 7/8"		8	16	"	—	—	1 3/4"	—		14	V	—	SC	
123	129 C.R.	131 C.R.	RH	3'-0"	6'-10"	—	A,D-D	6 7/8"		3	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
124	131A TEACHER'S CLOS.	131 C.R.	LH	2'-8"	6'-10"	—	B,G	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	SEE PLAN SECTION DWG. 11
125	131 C.R.	132 VESTIBULE	RH	3'-0"	6'-10"	—	N,O	6 7/8"		4	16	"	—	—	1 3/4"	—		3	3	—	SC	P;
126	129 C.R.	132 "	PAIR	5'-7 3/4"	6'-10"	—	I,O	6 7/8"		1	16	"	—	—	1 3/4"	—		2	—	—	SC	P;
127	127 STORAGE "	129 C.R.	PAIR	3'-4"	8'-9 5/8	—	E,I	4"		8	16	"	—	—	1 3/4"	—		15	—	—	SC	P;
128	129A TEACHER'S CLOS.	129 C.R.	PAIR	3'-4"	8'-9 5/8"	—	E,I	4"		3	16	"	—	—	1 3/4"	—		15	—	—	SC	P;
129	129 C.R.	123 RESOURCE	PAIR	5'-7 3/4	6'-10"	—	C,I	6 7/8"		1	16	"	—	—	1 3/4"	—		2	V	18	HM	P;
130	123 RESOURCE	J5 JANITOR	LH	3'-0"	6'-10"	—	A,D	6 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	P;
131	123 RESOURCE	T-21 GIRLS' TOILET	LH	3'-0"	6'-10"	—	D,E	6 7/8"		4	16	"	—	—	1 3/4"	TILE		9	—	—	SC	P;
132	123 VESTIBULE	T-22 BOYS' TOILET	LH	3'-0"	6'-10"	—	B	6 7/8"		4	16	"	—	—	1 3/4"	TILE		9	—	—	SC	
133	123 RESOURCE	132 VESTIBULE	PAIR	5'-7 3/4	6'-10"	—	B,I	6 7/8"		5	16	"	—	—	1 3/4"	—		2	—	—	SC	P;
134	133 C.R.	132 "	RH	3'-0"	6'-10"	—	I,O	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
135	133A TEACHER'S CLOS.	133 C.R.	LH	2'-4"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	P;
136	T-23 TOILET	133 C.R.	LH	2'-0"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	U.C.D.; P;
137	T-24 TOILET	133 C.R.	RH	2'-0"	8'-9 5/8	—	A,B	6 7/8"		3	16	"	—	—	1 3/4"	"		5	—	—	SC	U.C.D.
138	T-26 "	134 C.R.	LH	2'-0"	8'-9 5/8	—	A,E	6 7/8"		3	16	"	—	—	1 3/4"	"		5	—	—	SC	U.C.D.
139	T-25 "	134 C.R.	RH	2'-0"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	"		5	—	—	SC	U.C.D.; P;
140	134A TEACHER'S CLOS.	134 C.R.	RH	2'-4"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	
141	C-6 CORRIDOR	134 C.R.	RH	3'-0"	6'-10"	—	J,D-D	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
142	C-6 "	133 C.R.	LH	3'-0"	6'-10"	—	A,D-D	6 7/8"		4	16	"	—	—	1 3/4"			3	—	—	SC	P;
143	C-6 "	123 RESOURCE	PAIR	5'-0"	6'-10"	—	A,C	6 7/8"		1	16	"	—	—	1 3/4"			2	—	—	SC	
144	C-6 "	137 SPECIAL ROOM	LH	3'-0"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	
145	C-6 "	136 TEACHERS' ROOM	RH	3'-0"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	
146	C-6 "	136 SPECIAL ROOM	RH	3'-0"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	
147	C-6 "	135 TEACHERS' RM	LH	3'-0"	6'-10"	—	H	6 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	
148	C-6 "	123 RESOURCE	PAIR	5'-0"	6'-10"	—	A,C	6 7/8"		2	16	"	—	—	1 3/4"	—		2	—	—	SC	
149	C-6 "	138 C.R.	RH	3'-0"	6'-10"	—	A	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	
150	138A TEACHER'S CLOS.	C-6 CORRIDOR	LH	2'-0"	6'-10"	—	A,E	6 7/8"		4	16	"	—	—	1 3/4"	—		11	—	—	SC	
151	T-27 TOILET	138 C.R.	LH	2'-0"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	U.C.D.
152	T-28 "	138 C.R.	LH	2'-0"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	U.C.D.
153	T-29 "	139 C.R.	LH	2'-0"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	"		5	—	—	SC	U.C.D.
154	T-30 TOILET	139 C.R.	RH	2'-0"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	"		5	—	—	SC	U.C.D.
155	C-6 CORRIDOR	129 C.R.	LH	3'-0"	6'-10"	—	A	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	
156	C-6 "	140 C.R.	LH	3'-0"	6'-10"	—	D-D,J	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
157	C-6 "	141 C.R.	RH	3'-0"	6'-10"	—	A,D-D	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
158	T-34 TOILET	141 C.R.	LH	2'-0"	8'-9 5/8"	—	A,B	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD
159	T-31 TOILET	140 C.R.	RH	2'-0"	8'-9 5/8	—	A,E	6 7/8"		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	U.C.D.
160	T-33 "	141 C.R.	RH	2'-0"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	"		5	—	—	SC	U.C.D.; P;
161	T-32 "	140 C.R.	LH	2'-0"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	"		5	—	—	SC	U.C.D.; P;
162	140A TEACHER'S CLOS.	140 C.R.	LH	2'-4"	8'-9 5/8	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	P;
163	141A TEACHER'S CLOS.	141 C.R.	RH	2'-4"	8'-9 5/8"	—	A,D	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	P;
164	139A " "	C-6 CORRIDOR	RH	2'-0"	6'-10"	—	A,E	6 7/8"		4	16	"	—	—	1 3/4"	—		11	—	—	SC	
165	141 C.R.	142 VESTIBULE	LH	3'-0"	6'-10"	—	I,O	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
166	123 RESOURCE	142 "	PAIR	5'-7 3/4"	6'-10"	—	B,I	6 7/8"		5	16	"	—	—	1 3/4"	—		2	—	—	SC	P;
167	123 "	T-36 GIRLS' TOILET	RH	3'-0"	6'-10"	—	D,E	6 7/8"		4	16	"	—	—	1 3/4"	TILE		9	—	—	SC	P;
168	123 "	J-6 JANITOR'S	RH	3'-0"	6'-10"	—	A,D	6 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	P;
169	142 VESTIBULE	T-35 BOYS' TOILET	RH	3'-0"	6'-10"	—	B	6 7/8"		4	16	"	—	—	1 3/4"	TILE		9	—	—	SC	
170	143 C.R.	142 VESTIBULE	PAIR	5'-7 3/4"	6'-10"	—	I,O	6 7/8"		1	16	"	—	—	1 3/4"	—		2	—	—	SC	P;
171	144 C.R.	142 "	LH	3'-0"	6'-10"	—	N,O	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
172	144A TEACHER'S CLOS.	144 C.R.	RH	2'-8"	6'-10"	—	G	6 7/8"		3	16	"	—	—	1 3/4"	—		12	—	—	SC	SEE PLAN SECTION DWG. 11
173	144 C.R.	145 C.R.	PAIR	5'-0"	8'-9 5/8"	—	A,Z	6 7/8"		8	16	"	—	—	1 3/4"	—		14	V	—	SC	
174	143 C.R.	144 C.R.	LH	3'-0"	6'-10"	—	A,D	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
175	143 C.R.	145 C.R.	RH	3'-0"	6'-10"	—	D,I	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
176	146A TEACHER'S CLOS.	146 C.R.	RH	1'-8"	8'-9 5/8	—	A,B	6 7/8"		3	16	"	—	—	1 3/4"	—		12	+	—	SC	
177	143 C.R.	146 C.R.	RH	3'-0"	6'-10"	—	B,J	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	
178	S-10 STORAGE	143 C.R.	PAIR	3'-4"	8'-9 5/8"	—	E,I	4"		8	16	"	—	—	1 3/4"	—		15	—	—	SC	P;
179	143A TEACHER'S CLOS.	143 C.R.	PAIR	3'-4"	8'-9 5/8	—	E,I	4"		8	16	"	—	—	1 3/4"	—		15	—	—	SC	P;
180	147 C.R.	146 C.R.	PAIR	5'-0"	8'-9 5/8	—	A,Z	6 7/8"		8	16	"	—	—	1 3/4"	—		14	—	—	SC	
181	143 C.R.	147 C.R.	LH	3'-0"	6'-10"	—	B,J	6 7/8"		4	16	"	—	—	1 3/4"	—		3	—	—	SC	
182	147A TEACHER'S CLOS.	147 C.R.	LH	1'-8"	8'-9 5/8"	—	B,E	6 7/8		3	16	"	—	—	1 3/4"	—		12	—	—	SC	
183	143 C.R.	148 C.R.	LH	3'-0"	6'-10"	—	D-D,I	6 7/8		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
184	143 C.R.	149 C.R.	RH	3'-0"	6'-10"	—	A,D-D	6 7/8		4	16	"	—	—	1 3/4"	—		3	—	—	SC	P;
185	149A TEACHER'S CLOS.	149 C.R.	LH	2'-8"	6'-10"	—	B,G	6 7/8		3	16	"	—	—	1 3/4"	—		12	—	—	SC	SEE PLAN SECTION DWG. 11
186	T-38 TOILET	150 C.R.	RH	2'-0"	8'-9 5/8"	—	A,G	6 7/8		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD;
187	143 C.R.	123 RESOURCE	PAIR	5'-7 3/4"	6'-10"	—	C,I	6 7/8		1	16	"	—	—	1 3/4"	—		2	—	—	SC	P;
188	T-39 TOILET	150 C.R.	LH	2'-0"	8'-9 5/8"	—	A,D	6 7/8		3	16	"	—	—	1 3/4"	TILE		5	—	—	SC	UCD
189	C-2 CORRIDOR	150 C.R.	RH	3'-0"	6'-10"	—	H	6 7/8		4	16	"	—	—	1 3/4"	—		3	—	—	SC	
190	126A TEACHER'S CLOS.	126 C.R.	LH	1'-10"	8'-9 5/8	—	B,I	6 7/8		3	16	"	—	—	1 3/4"	—		12	—	—	SC	
191	130A " "	130 C.R.	RH	1'-10"	8'-9 5/8"	—	B,I	6 7/8		3	16	"	—	—	1 3/4"	—		12	—	—	SC	
192	145A " "	145 C.R.	LH	1'-10"	8'-9 5/8"	—	B,I	6 7/8		3	16	"	—	—	1 3/4"	—		12	—	—	SC	
193	148A " "	148 C.R.	RH	1'-10"	8'-9 5/8"	—	B,I	6 7/8		3	16	"	—	—	1 3/4"	—		12	—	—	SC	
194	C-4 CORRIDOR	C-5 CORRIDOR	PAIR	5'-7 3/4"	6'-10"	—	C	6 7/8		1	16	"	B	B	1 3/4"	—		15	—	18	HM	CHANNEL STIFFENER
195	C-4 "	K-4 FOOD STOR.	LH	3'-0"	6'-10"	—	A	8 7/8"		4	16	"	—	—	1 3/4"	—		9	—	—	SC	
196	A-9 LOBBY	107 TEACHERS' RM.	RH	3'-0"	6'-10"	—	O	6 7/8		4	16	"	B	B	1 3/4"	—		8	—	18	HM	
197	124A TEACHER'S CLOS.	124 SPECIAL CLASSROOM	LH	3'-0"	8'-11 5/8"	—	D,E	6 7/8"		3	16	"	—	—	1 3/4"	—		11	—	—	SC	
198	130A " "	130 SPECIAL CLASSROOM	RH	3'-0"	8'-11 5/8"	—	D,E	6 7/8"		3	16	"	—	—	1 3/4"	—		11	—	—	SC	

KEY

FBA = FLAT BAR ASTRAGAL
CM = CENTER MULLION
UCD = UNDER CUT DOOR
HM = HOLLOW METAL
SC = SOLID CORE
RH = RIGHT HAND
LH = LEFT HAND
CR = CLASS ROOM
P = 16 GAUGE CLOSURE PLATE

REGISTERED ARCHITECT
GEORGE H. STONER
No. 743
BOSTON
MASS.
COMMONWEALTH OF MASSACHUSETTS

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

PROPOSED ELEMENTARY SCHOOL
READING MASS.

DOOR SCHEDULE

DWG. NO. 12

JOB NO 1608
DRAWN JACKSON
CHECKED
SCALE
DATE FEB

ROOF DRAINAGE PLAN

SCALE /16 - 1 0

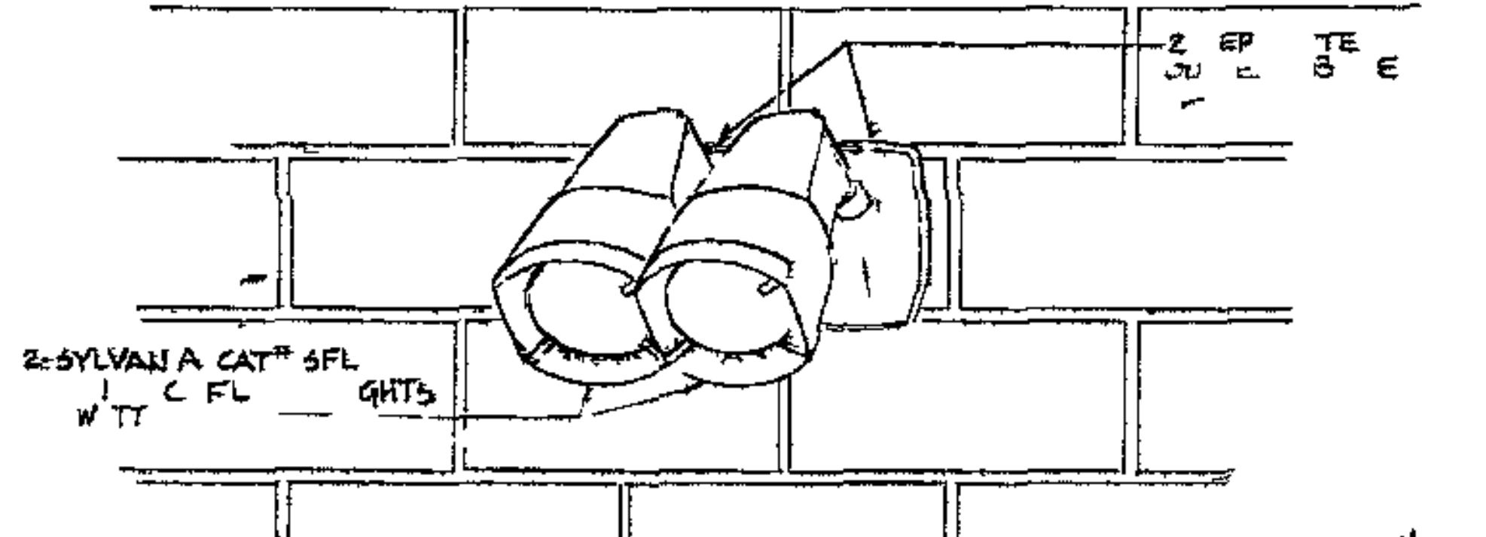
NOTE DRAINAGE FILL SHOWN DARK
ALL SPLASH BLOCKS SHALL BE
HORIZONTAL R OF DRAINS
BELOW ROOF SHOWN DOTTED
ALL GUTTERS TO BE HEATED

STONER ASSOCIATES

NEW ELEMENTARY SCHOOL
READING MASS

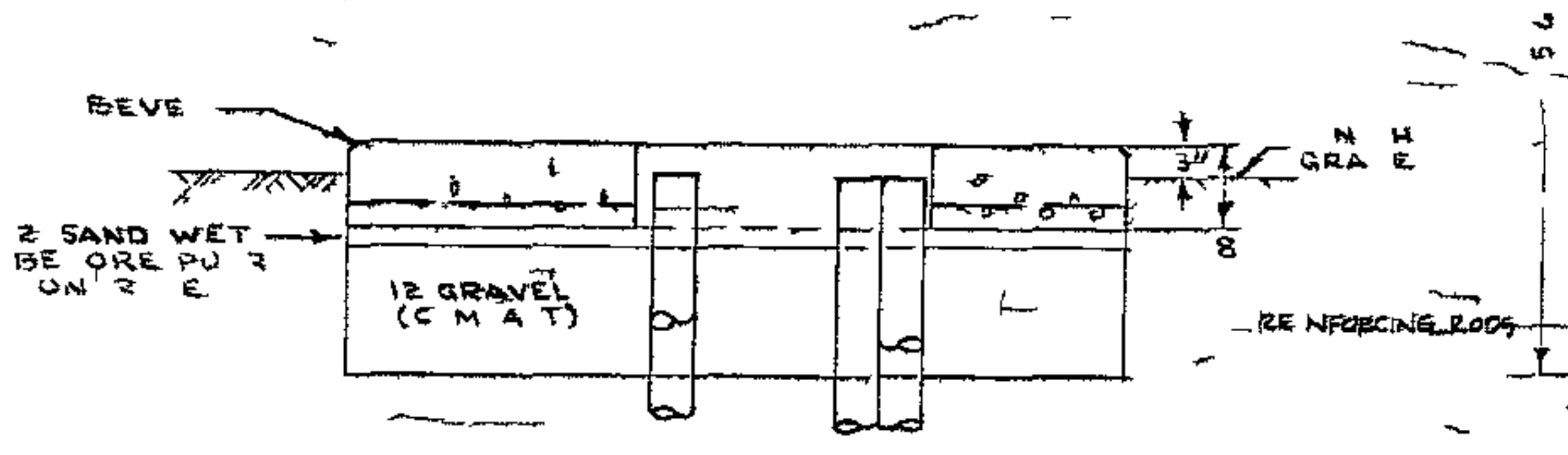
DOOR ELEVATIONS & DETAILS
AND ROOF DRAINAGE PLAN

13



TYPE S FIXTURE DETAIL (ALTERNATE NO 2)

NOT TO SCALE

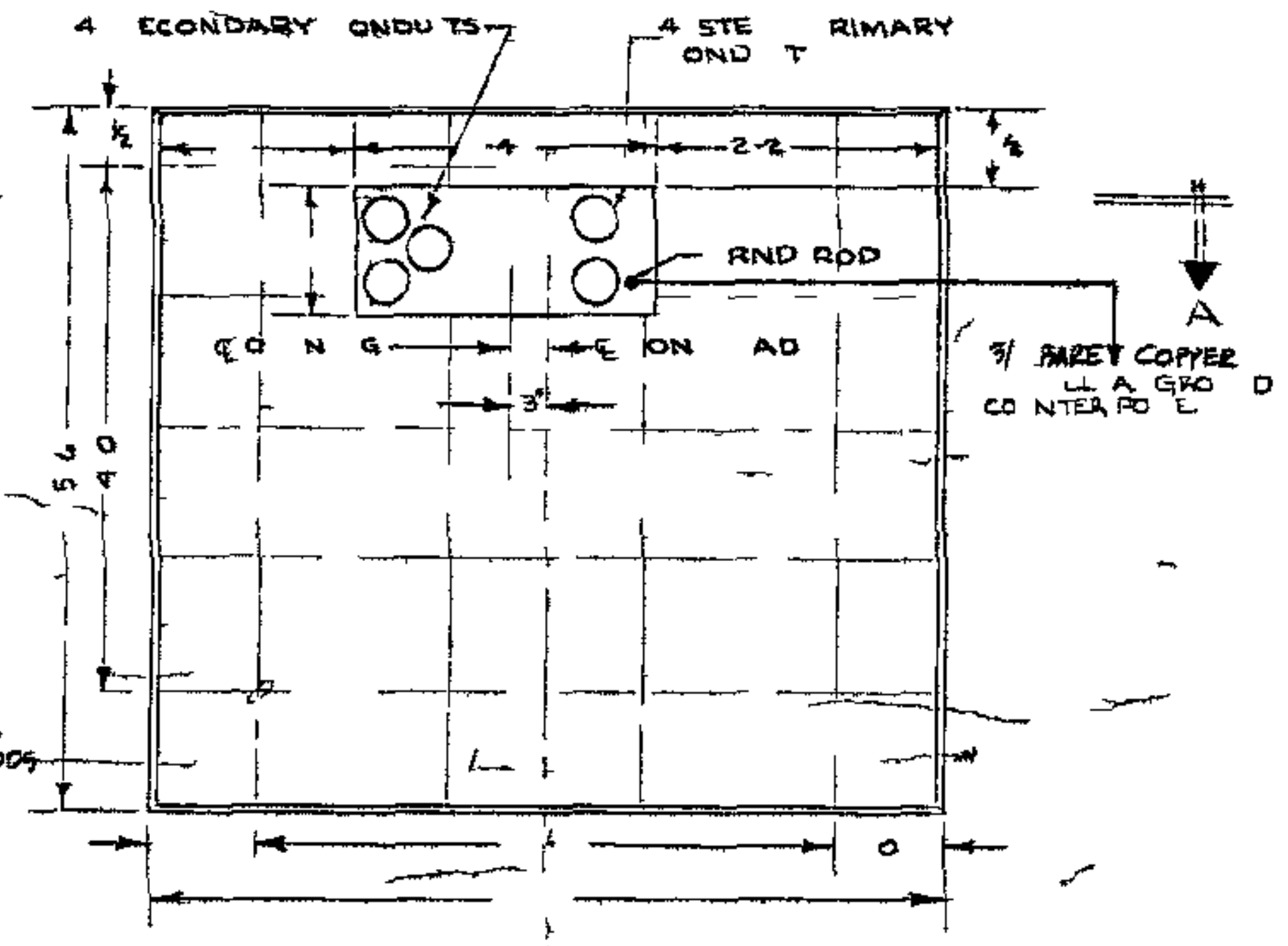


SECTION "AA"

NOTES

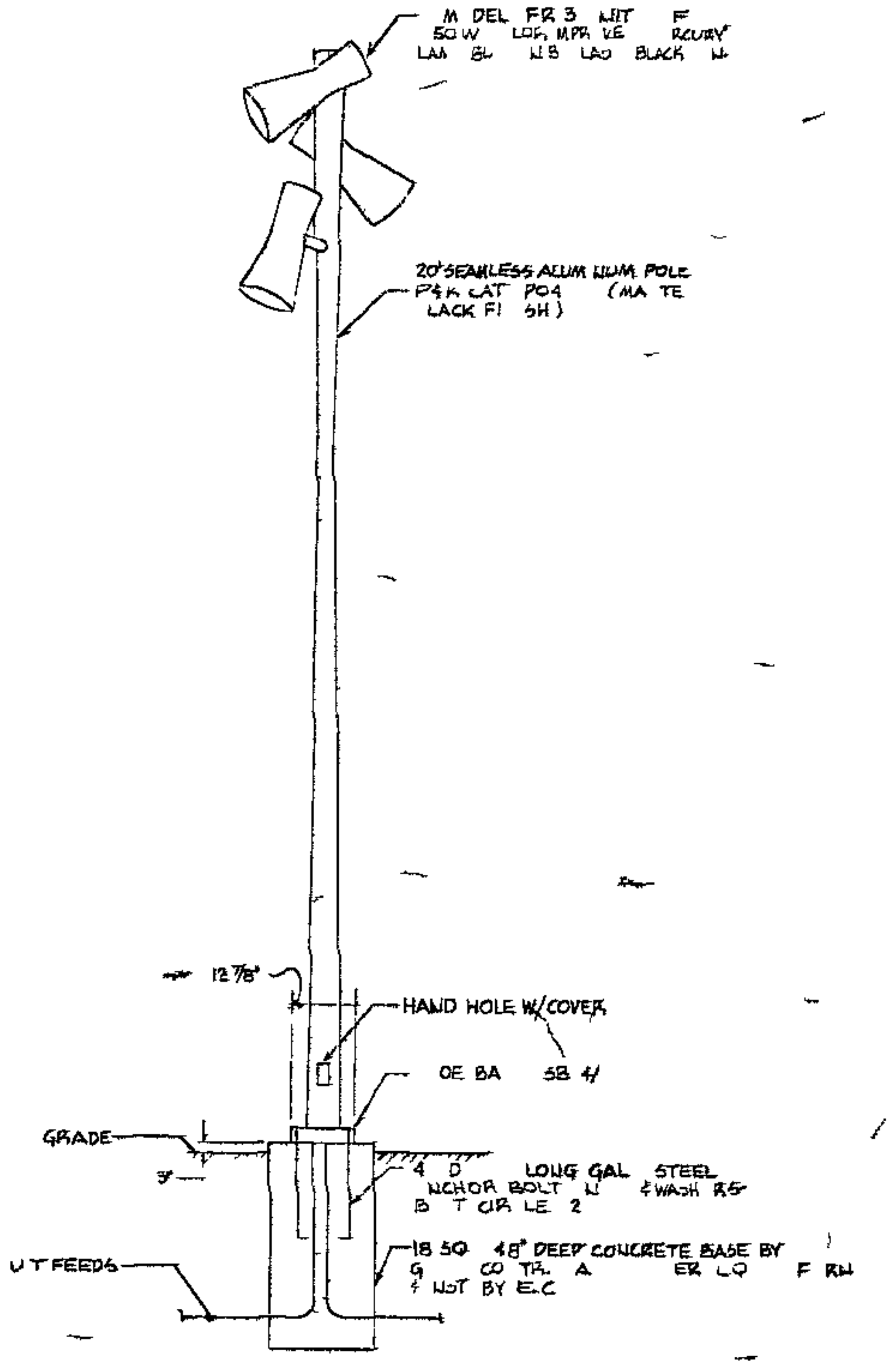
NCRETE & RE NFORC NG BY G C

2 VER FY PAD DIMENSIONS W/ TRANSFORMER MANU ACT RER BEFORE NS ALLA N



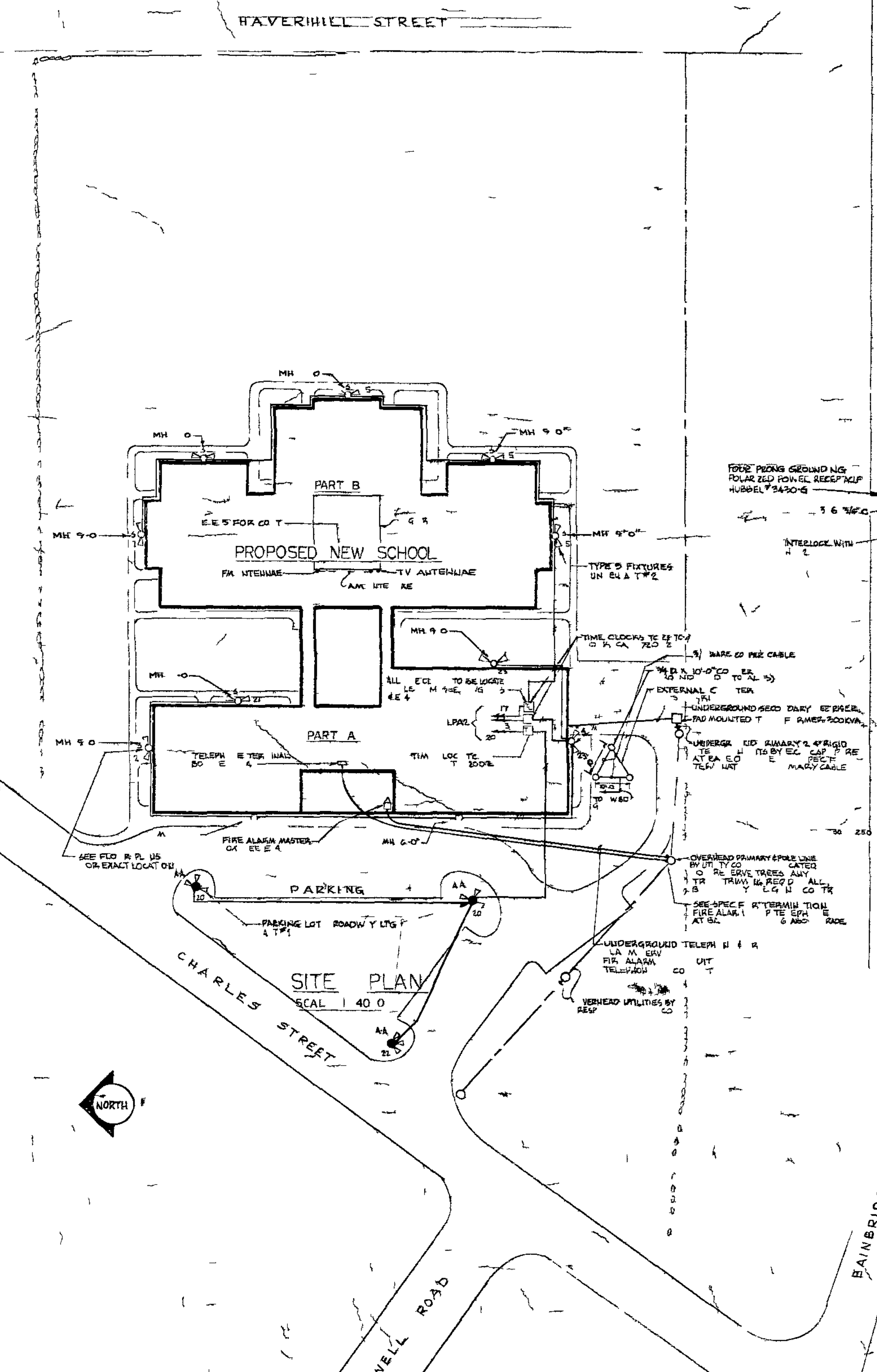
TRANSFORMER PAD DETAIL

SCALE 1/4"=1'0"


M DEL FR 3 LIT F
20' SEAMLESS ALUM NUM POLE
12 7/8"
HAND HOLE W/COVER
GRADE
4 D LONG GAL STEEL ANCHOR BOLT N & WASH RS
18 SQ 48" DEEP CONCRETE BASE BY G
UT FEEDS

TYPE A-A FIXTURE DETAIL (ALTERNATE NO 1)

NOT TO SCALE



NOTES

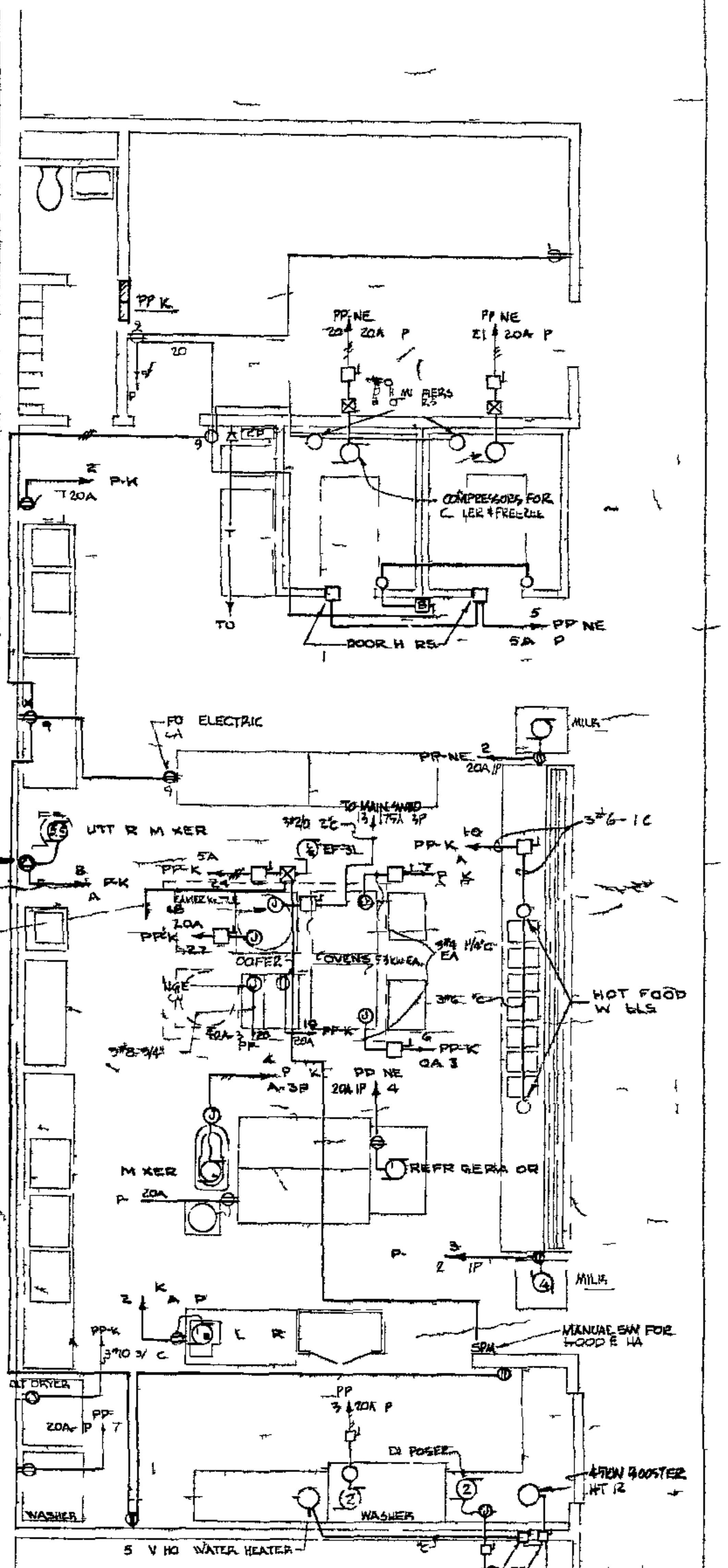
ALL MO NTING HEIG GI EN ARE A E 5 G E

2. ALL C NDUITS RUN BELOW GRADE T BE PA TE CO A AL M

3 ALL EXTERIOR ND TS TO B B E 2N N MUM 3 B LOW GRADE

SITE PLAN

SCAL 1" 40 0



KITCHEN AREA PLAN

SCALE 1/4" 1 0

Material and nst ction ill co form with th eq ti i re l ti fo sc ioo

SIGNED Robert M Thompson

ROBER THOMPSON

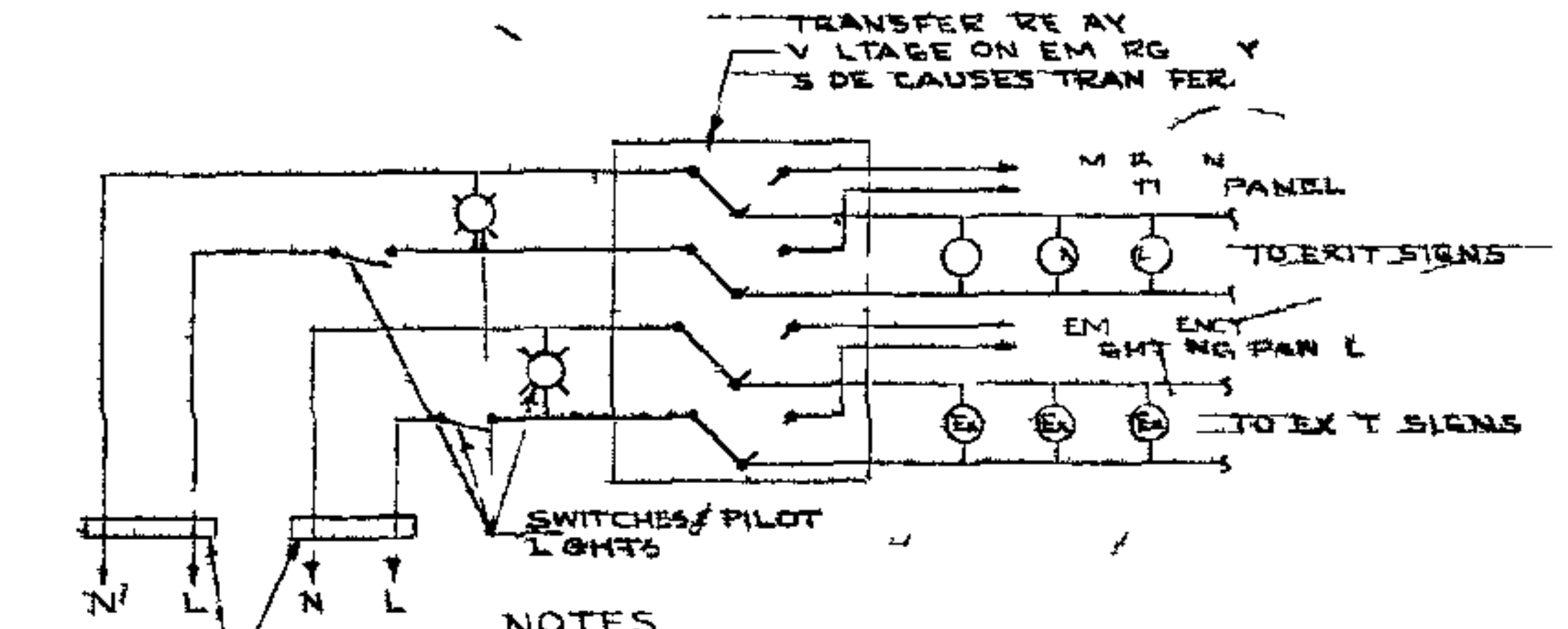
STONER ASSOCIATES
ARCH E TS

NEW ELEMENTARY SCHOOL
READING MASS

ELECTRICAL
SITE PLAN

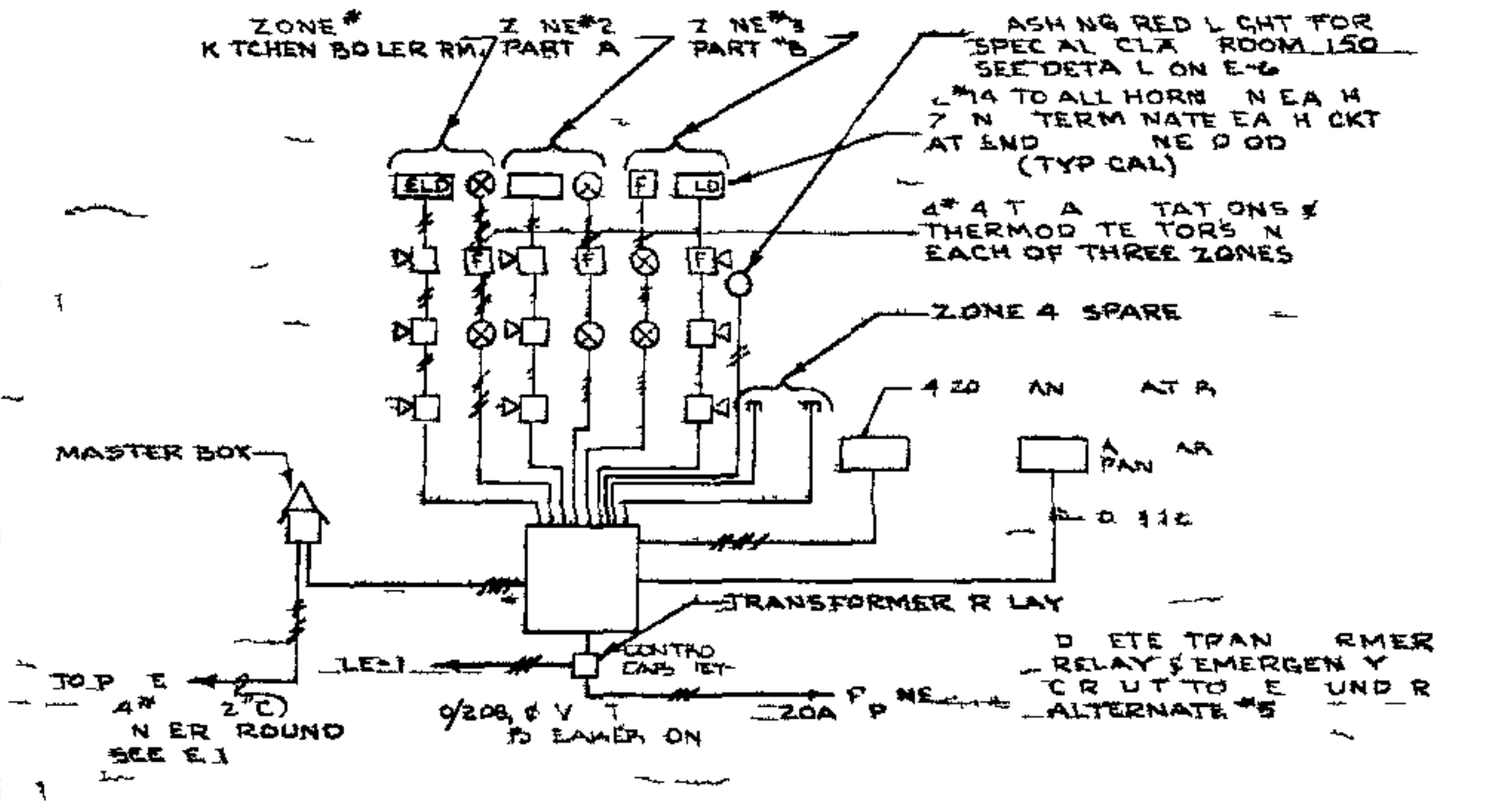
JOB NO.	DRAWN JW	SCALE AS NOTED
	CHECKED G	DATE FEB. 5, 968

E-1

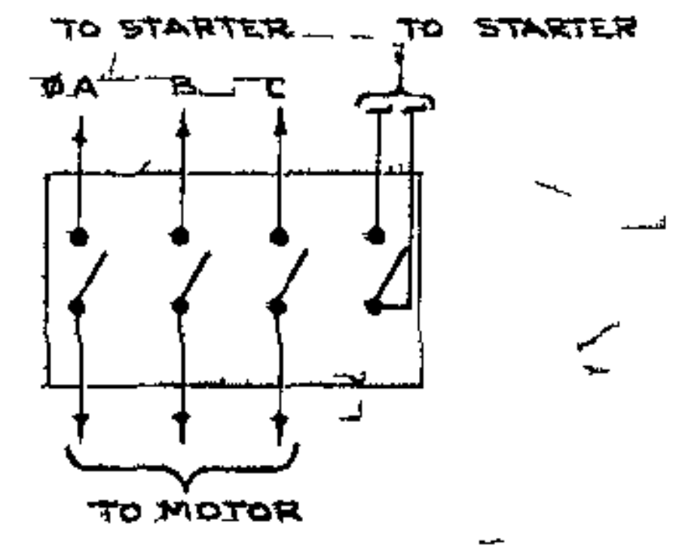


NOTES
1 M WIRE S ZE HAL BE #1 WG
2 VOLTA FROM GENERATOR SHALL OPERATE TRANSFER RELAY
3 NEUTRALS W TCH D ALS

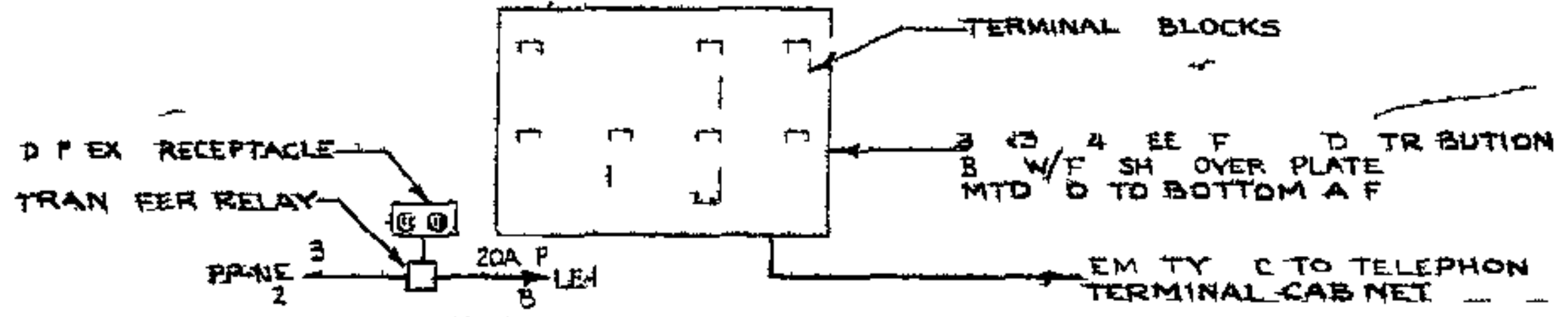
TRANSFER RELAY DIAGRAM
NO SCALE


ZONE#
K TCHEN BO LER RM PART A
Z NE #2
Z NE #3
PART B
ASH NG RED L GHT FOR SPEC AL CLA ROOM 150 SEE DETA L ON E-6
#14 TO ALL HORS N EA H
Z N TERM NATE EA H CKT AT END NE P OD (TYP CAL)
4 #14 T A TAT ONS & THERMOD TE TORS N EACH OF THREE ZONES
ZONE 4 SPARE
4 20 AN AT P
A PAN
MASTER BOX
TRANSFORMER R LAY
CONTRO CAB TET
TO P E
4# 2 C
N ER ROUND SEE E 1
LE-1
20A
D ETE TRAN RMER RELAY & EMERGEN Y C R UT TO E UND R ALTERNATE #5

FIRE ALARM RISER DIAGRAM
REFER T FLO R PLANS FOR LOCATIONS & QUANTITY OF EQ PM NT A W1R1 G #14 W



TYPICAL 4 POLE MOTOR WORK SWITCH

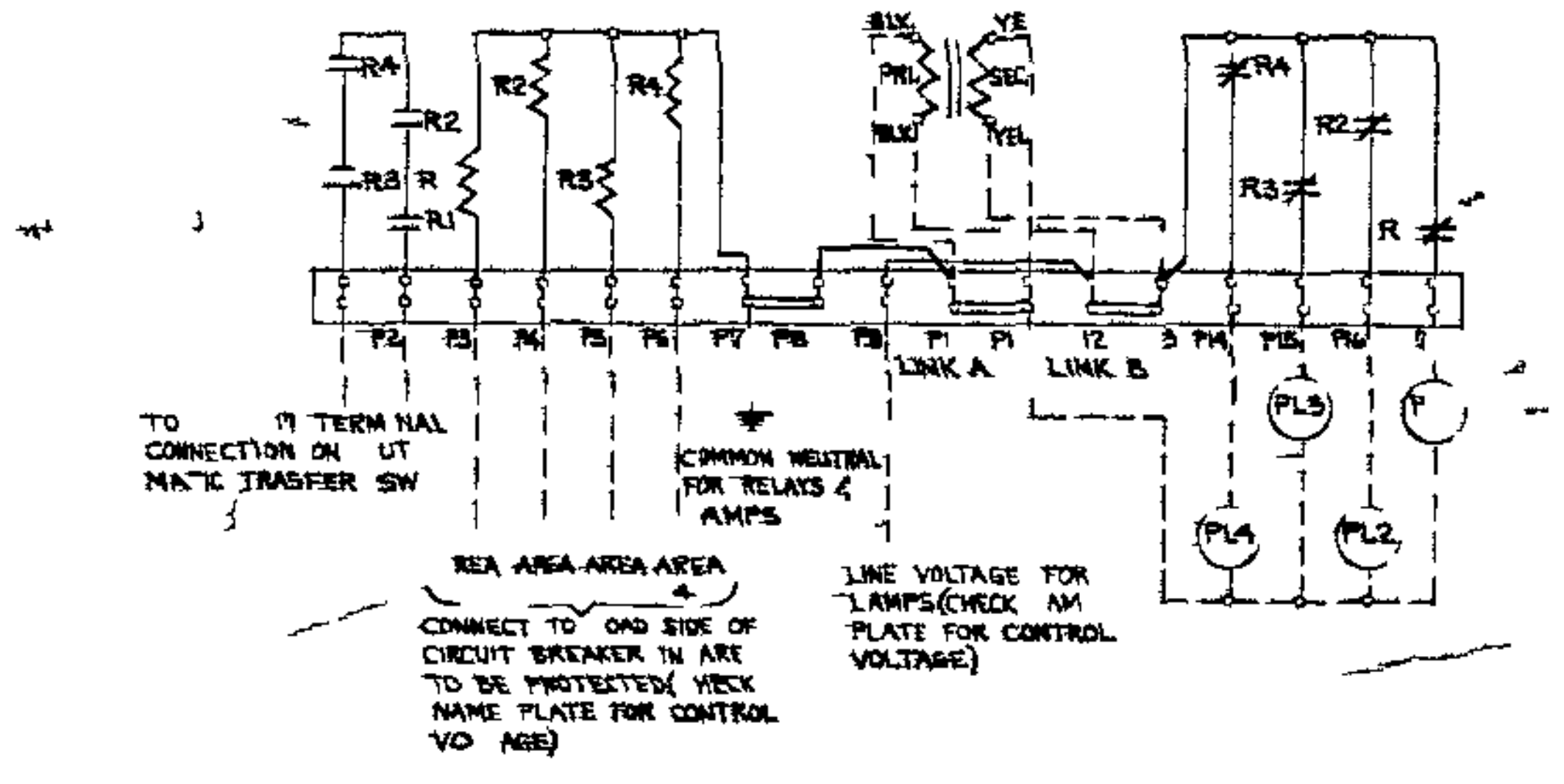

TERMINAL BLOCKS
D P EX RECEPTACLE
TRAN FER RELAY
PP-NE 3 2
20A P
LE-1 B
3 43 4 EE F D TR BUTION B W/F SH OVER PLATE MTD D TO BOTTOM A F
EM TY C TO TELEPHON TERMINAL CAB NET

PA SYSTEM DISTRIBUTION BOX DETAIL
N SCA E

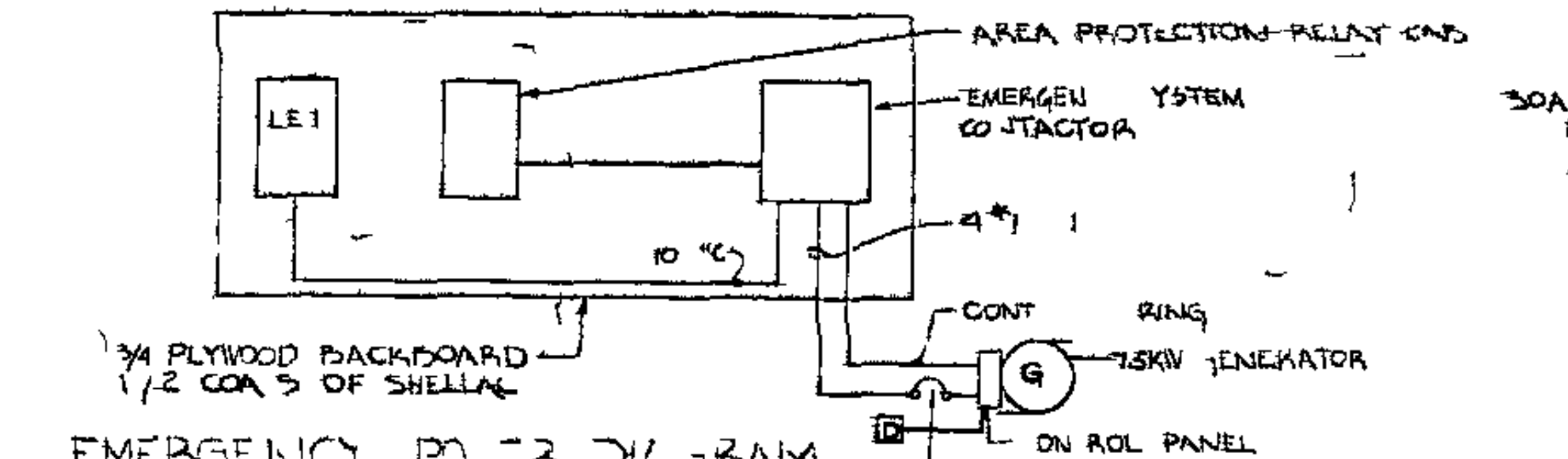
DELETE TRANSFER RELAY AND EN ERGENCY CKT T LE-1 UN ER ALTERNATE #5

AREA PROTECTION RELAY SCHEDUL

L A CKT# 4 12,26 25 27
LP A2 CKT# 5 2
LP B CKT# 9 39
LP B2 KT# 9 8
PP-K KT# 5


R4
R2
R3
R1
BLK
YE
PRI
SEC
YEL
LINK A
LINK B
PL3
PL4
PL2
TO TERM NAL CONNECTION ON UT MA TRASFER SW
COMMON NEUTRAL FOR RELAYS & AMPS
REA AREA AREA AREA
CONNECT TO ONE SIDE OF CIRCUIT BREAKER IN ARE TO BE PROTECTED (CHECK NAME PLATE FOR CONTROL VO AGE)
LINE VOLTAGE FOR LAMPS (CHECK AM PLATE FOR CONTROL VOLTAGE)

TYPICAL AREA PROTECTION RELAY SCHEMATIC
NO SCALE


AREA PROTECTION RELAY CABS
LE 1
EMERGEN YSTEM CO TACTOR
10 "C
CONT RING
7.5KW GENERATOR
3/4 PLYWOOD BACKBOARD 1/2 COA S OF SHELLAC
ON ROL PANEL
3 A 3 AC A EA ER M UNTED NEXT TO THE CONTROL PANEL

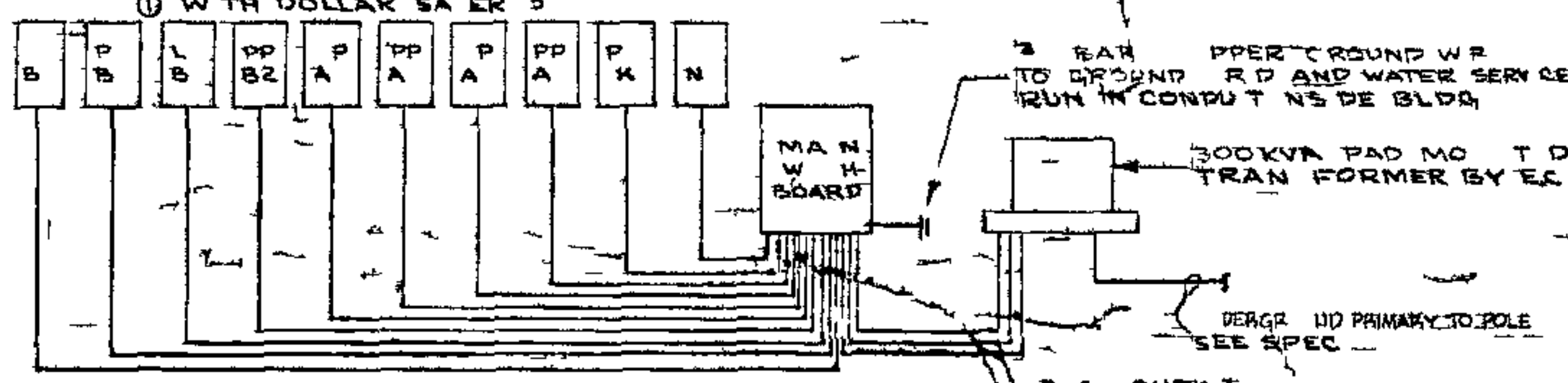
EMERGENCY PO ER DI GRAM
NO SCALE BAS B D

LIGHTING FIXTURE SCHEDULE

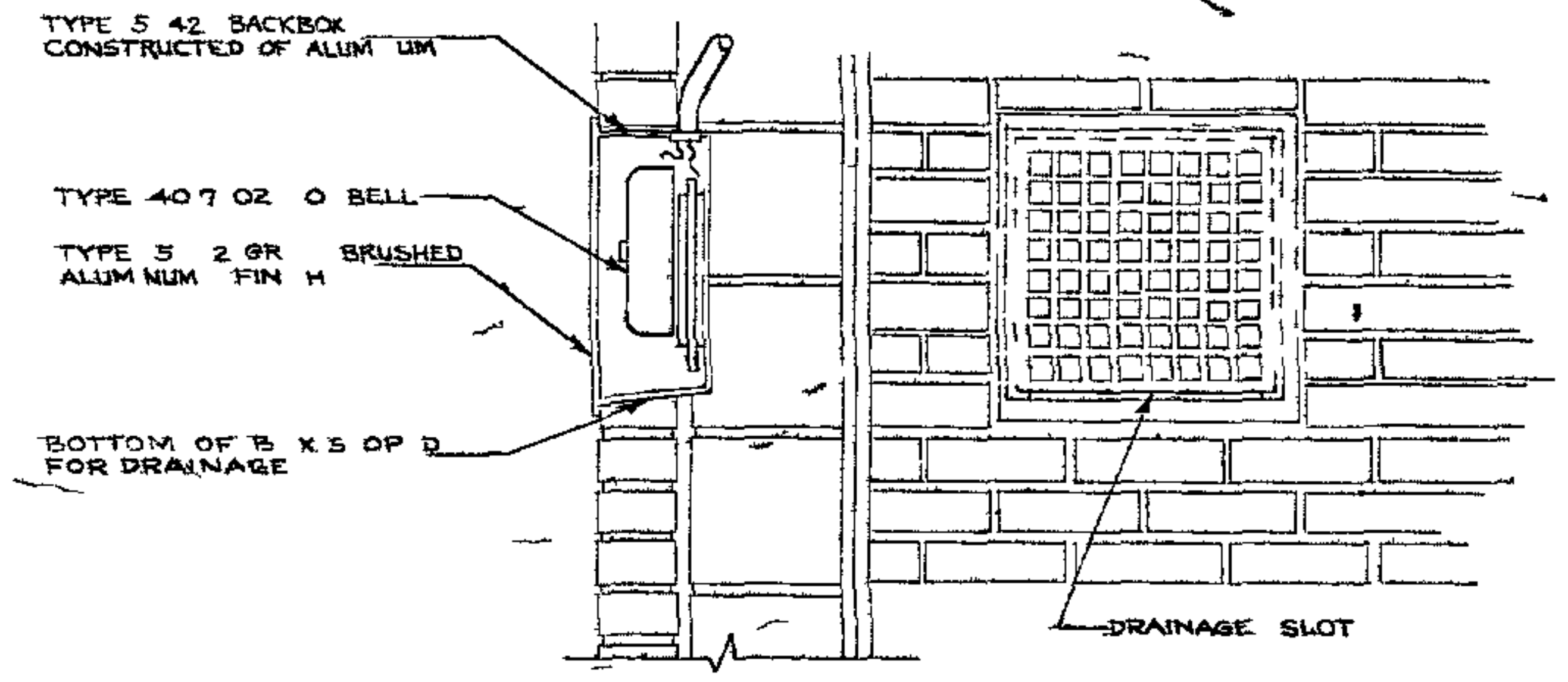
ALL IGHTING FIXTURES SHALL FURN SHED STALLED COMPLETE WITH LAMPS & ACCES RIES FO CO LETE STALLA IO

	TYPE	MFG'R.	CA NO.	LAMPS TYPE	LAMPS W TTS	MTG.	REMARKS
	A	G	BTCTL 4 A	T1 R5	4	F	
	A	G BS	TL 2 OA	2R5	2 4	RF	
	B	PRESCO	27 870	R 30	7	PE D	
		LITE LITR	69 RGR-DL	G 17		RF	MTG D A N DWG
	D	M LER	2 D4	T R5	2 4		
	E	PRES O TE	57 70	R		WALL	
	F	L GHTOL ER	763	PAR 35	5	RA M	COO P AM M T OO
	G	PR LITE	79 32	R 3	75	R C	
	H	C RTI ELECTRO	RT 24 R	R		URF	
	H1	RTI ELECTR	40 SH	R		R	
*	J	IP LECTRO	BT 3	T1 R	2 4		LOVETT CO BY
	K	HOLOPHAN	8	A		UR	
		M ER	AE 3040	NC	OO	PEND	
		ITE CONTROL	308 R F	R		S RF	M G DETA ON DWG
+	N	LITECONTR	144 5X	T2	4-4	F	
	P	ITECONTRO	7 42T	T R		R	
	R	M CA T	3	R 4	5C		EM G Y H T F N H
	F	LD T	1	R			E L O W TE F N
		E SCO L	P 4	C		WALL	
	W	P S TE	750			EC	EM RGE C W I FINISH INCLUDING LOUVER
○		PR TE	XS		7W	WAL	D C
○	Y	PR S TE	C S		W	FAC	
○		R S LTE	X T5 E		W	LO FA	
		P P SH L	SEE T	A	D C		
	BB	L HT R	7779	PAR38		RE	MAX. RECE D P H
		A STYM R	3	N	OO	RF	

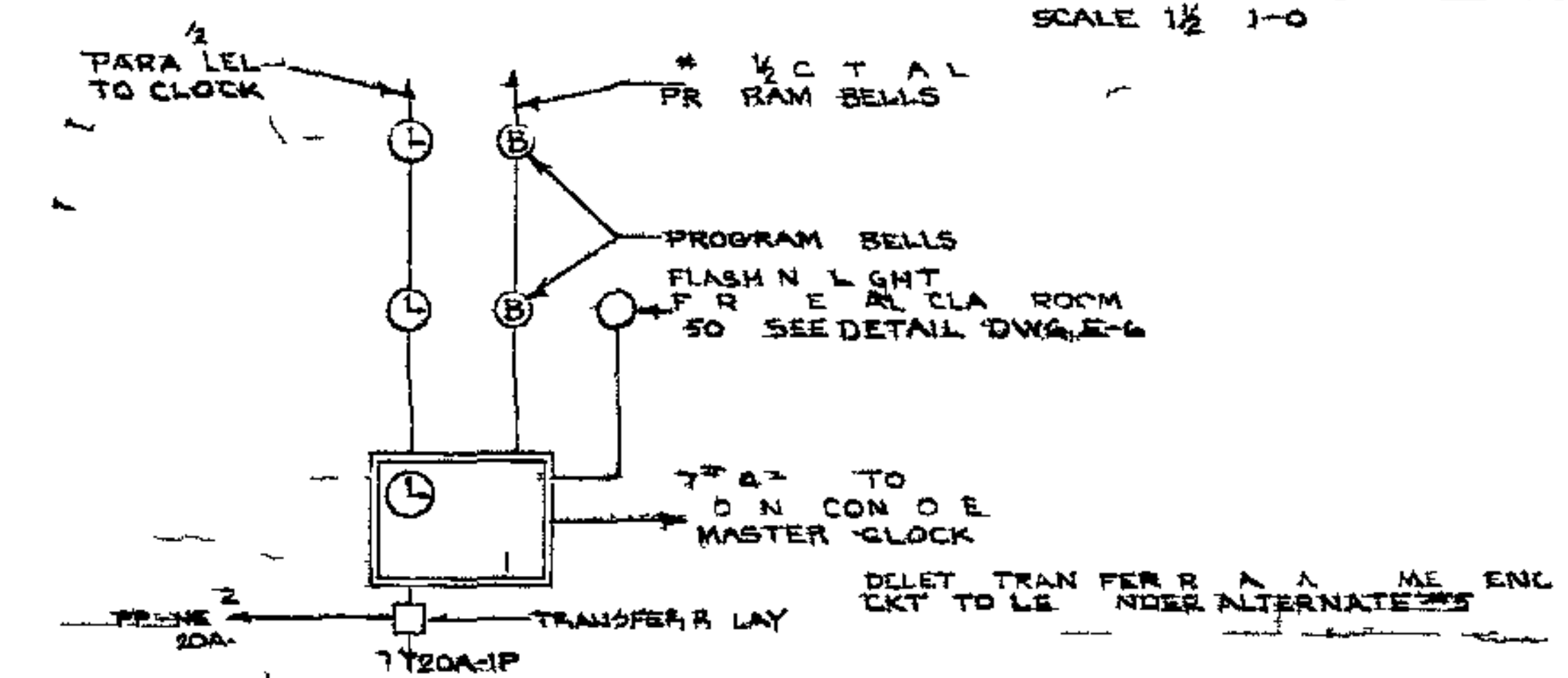
* SAME A NL 4 LO C & W LAM CURTI ELECTR H ASE
+ AMPS W TCHED A TERNATELY SEE PLANS DWG E-3
① W TH DOLLAR SA ER 5


B
P B
L B
PP B2
P A
PP A
P A
PP A
P K
N
MA N W H BOARD
3 EAR PPER GROUND W R TO GROUND R D AND WATER SERV CE RUN IN CONDU T NS DE BLDG
300KVA PAD MO T D TRAN FORMER BY EC
DEAGR HD PRIMARY TO POLE SEE SPEC
3 4 CONDU T W/4 OO MCM IN EACH

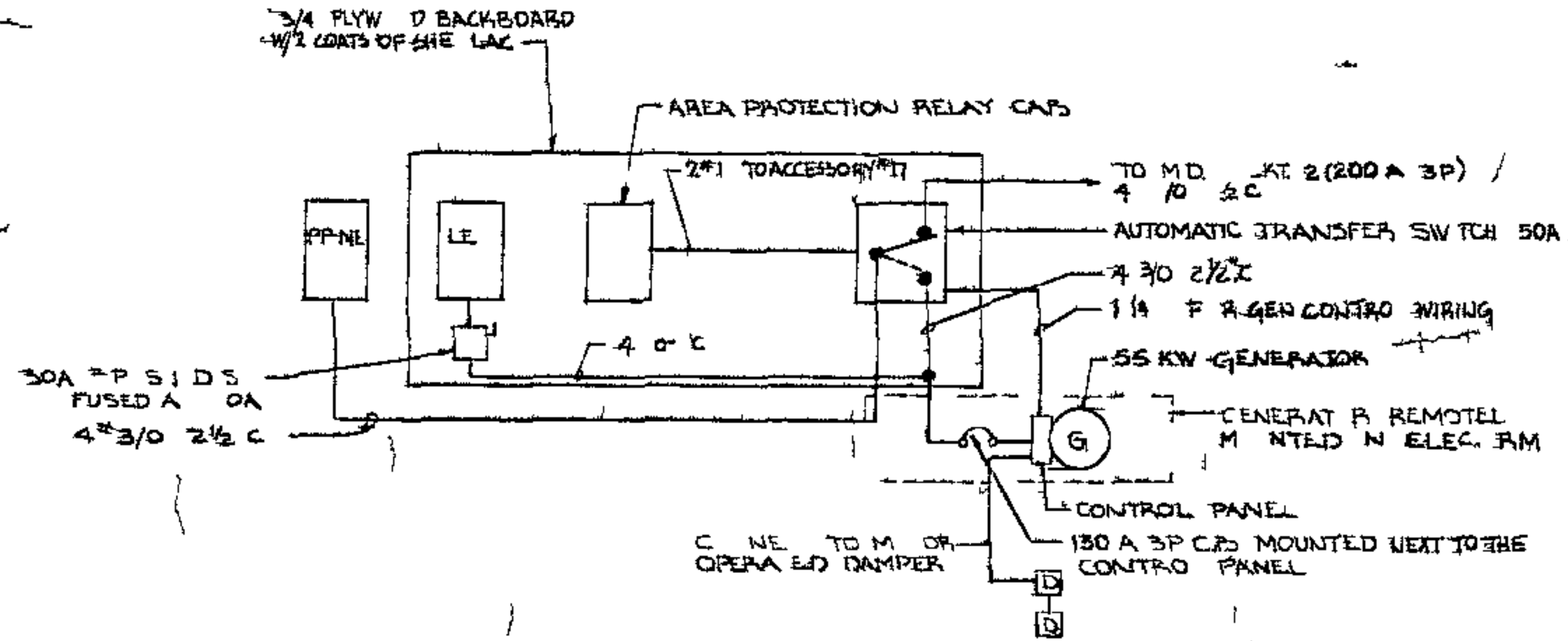
RISER DIAGRAM


TYPE 5 42 BACKBOX CONSTRUCTED OF ALUM UM
TYPE 407 02 O BELL
TYPE 3 2 GR BRUSHED ALUM NUM FIN H
BOTTOM OF B X S OP D FOR DRAINAGE
DRAINAGE SLOT

EXTERIOR PROGRAM BELL DETAIL
SCALE 1½ 1-0


PARA LEL TO CLOCK
½ C T A L PR RAM BELLS
PROGRAM BELLS
FLASH N L GHT F R E AL CLA ROOM 50 SEE DETAIL DWG E-6
7 #18 TO D N CON O E MASTER CLOCK
DELET TRAN FER R A A ME ENC CKT TO LE NDER ALTERNATE #5
PP-NE 2 20A
1 20A-1P LE 1
TRANSFER R LAY

CLOCK & PROGRAM SYSTEM SCHEMATIC
NO SCALE


3/4 PLYW D BACKBOARD W/2 COATS OF SHE LAC
AREA PROTECTION RELAY CABS
2#1 TO ACCESSORY T1
PP-NE
LE
TO M.D. KT 2 (200A 3P) 4 10 2C
AUTOMATIC TRANSFER SW TCH 50A 3P
4 #10 2½C
1 ½ F R GEN CONTRO WIRING
55 KW GENERATOR
GENERAT R REMOTEL M NTED N ELEC. RM
CONTROL PANEL
130 A 3P C B MOUNTED NEXT TO THE CONTRO PANEL
C NE TO M OR OPERA ED DAMPER
30A 3P S I D S FUSED A OA
4#3/0 2½ C
4 0 C

EMERGENCY POWER DIAGRAM ALTERNATE #5
NO SCALE

POWER PANEL SCHEDULE
S CE 2 / Ø ± N

PANEL	LOCATION	MNT'G	PS	SIZE DCA ON	BRANC BR BKRS 5	20	30	BREAKERS AMPS BKRS	20	30	3P CKT BKRS	20	30	40	70	100	SPACES 20	1P 20	00	OTHERS
	YM RAC	S R	25A	# BOTT		7		2				2	2					2		
PP	E OOM		225A	/0 /BOTT								2						2		2 (5 A 2)
+ P	FOOD TORAC			250M M BOTT						1					3		2	2		1 (50A P)
+ PP NE	BO LER ROOM		22 A	3/ /BOTT	2	9									3		3			
+	AN			4/ /BOTT														2		1 (5 A)
P B2	A	JR	2 A	#2 /BOTT																

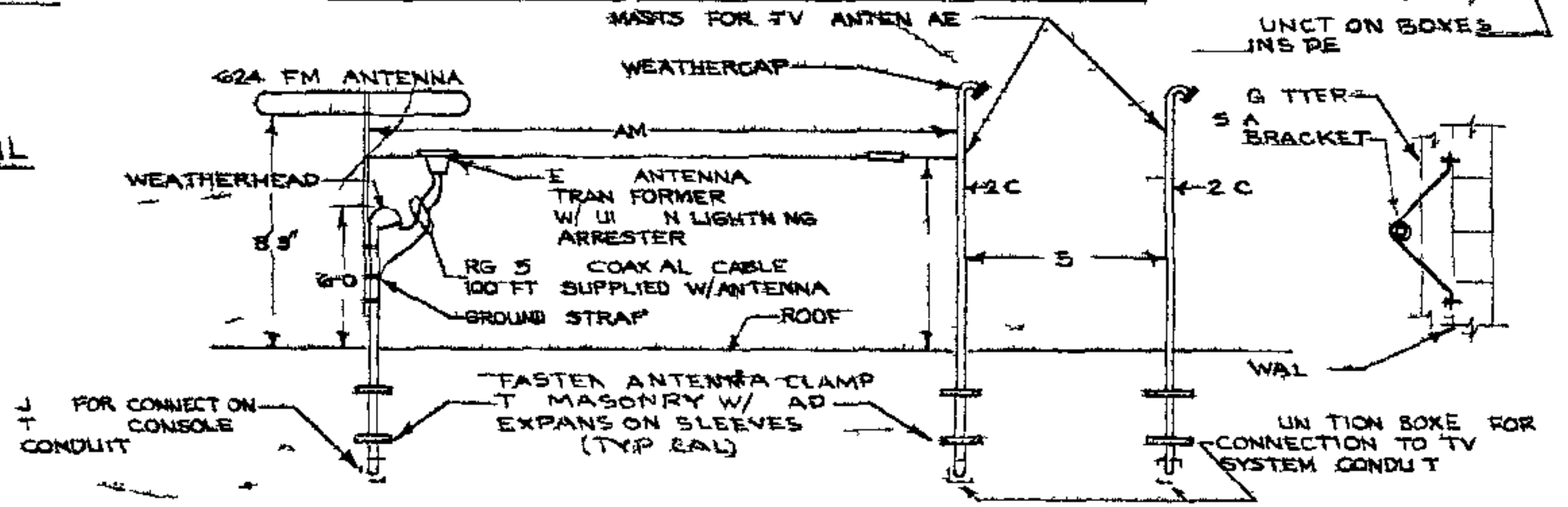
+ DOUBLE PANEL W TH FEED THRU LUGS

LIGHTING PANEL SCHEDULE
SERVICE 20/208V 3Ø O/U SN

NEL	LOCATI	MNT'	PS	ZE OCATIO	20A BR KE SED	SP RE	IRCUIT OTAL	OTHERS
LP	YM TO AR	S F	22 A	3/0 BOTT	2	7	3	
PA2	ELEC R OM		22	#1 BOTT	2			
LP B	AN		A	4/0 BOTT				
P B2	AN S		2	BOTT				
LE	E EC RM		A	#1 BOTT			2	2 A P

MAIN SWBD OR DIST PANEL SCHEDULE
RVIC 20/208V 3Ø 60 ~ #5

POL CKT BR'KR NO	AMPS	FR ME SIZE	CIRCU	FEEDER SIZE ABLE	OND	OTHERS
	1200		MAI SWITCH 120 MP FRAIM	3 00 MCM	Ø N	3 C
2	1 5		L A	/	2½	
3	D		PP A	4#1		
4	125		LP A2	#1	2	
5	150		PP A	4 1/	2	
			P B	4-4/		
7	50		PP B	-4/		
	25		LP B2	3/	½	
9			PP B	2	2	
10	250	A	KW BO R HTR 20 KW TANK H	3 50 MCM	3"	
1	22	A	PP K	3-4/0	2½	
2		JA	PP NE	4-3/	2½	
13	1 5		STEAMER 48 KW	3 3/0	2	
14	10		SPARE	—	—	
15	200		SPARE	—	—	
1	1		SPACE	—	—	
7			SPA E	—	—	


MASTS FOR TV ANTEN AE
WEATHERCAP
624 FM ANTENNA
AM
WEATHERHEAD
E ANTENNA TRAN FORMER W/ LI N LIGHTN NG ARRESTER
RG 5 COAX AL CABLE 100 FT SUPPLIED W/ANTENNA
GROUND STRAP
ROOF
2C
2 C
5
FASTEN ANTENNA CLAMP T MASONRY W/ AD EXPANS ON SLEEVES (TYP CAL)
FOR CONNECT ON CONSOLE CONDUIT
WAL
UN TION BOXE FOR CONNECTION TO TV SYSTEM CONDU T
GUTTER
STAND BRACKETS
ROOF
UNCT ON BOXES INS DE
G TTER
S A BRACKET

AM FM TV ANTENNA DETAIL
NO SCALE

GENERAL NOTES

ALL EXTER OR W NG H L BE # O AWG M N.
2. ALL OME RUN E CEEDING 80 FT N LENGTH SHALL BE A M OF # AWG
3. AL SWITCH & PILOT GHTS H L HAVE BLACK PHENOLIC AMPLATES WITH WHITE ENGRAV NG DENOTING THEIR USAG
4. BETWEEN EACH POWER & LIGHTI G PANEL LOOP A 1 EMPTY ON T
5. ALL TERIOR PER G N COND T SHA BE B RIED M N OF 30" BELOW GRADE & COATED WITH 2 COATS OF ASPHALTUM
6. A STARTERS CO TROLLING H & V EQUIPMENT SHA BE MOUNTED NEXT TO PANEL CONTROLLING SAME UNLESS OTHERW SE SPEC FIED
MOUNTING HEIGHT OF L W MOUNTED EQ (GHTS, PE KERS ET) ARE APPROXIM TE ON SEE ARC ITECTURAL DETAILS FOR RELAT ON M SONRY OURS NG EQ R SHALL BE MOUNTED ON SAME VERTICA R HOR ZONTAL ℄
8. A PENDAN MTD FIXTURES WI HAVE BA L O NT SWIVEL H GER T NSURE PLUMB NSTA T ON
9. AL TELEPHONE OUTLET LOCATIONS TO BE VERIFIED ON THE OB WITH PER G ER
10. AL CONDUIT SHA L BE R N CONCEA ED
11. NO CONDU T SH L BE RUN EXP ED UNLESS AUTHORIZED BY THE RCH TECT OR ENG NEER
12. ALL FIXTURE SHALL BE CENTERED ON THE CEILING TILES.

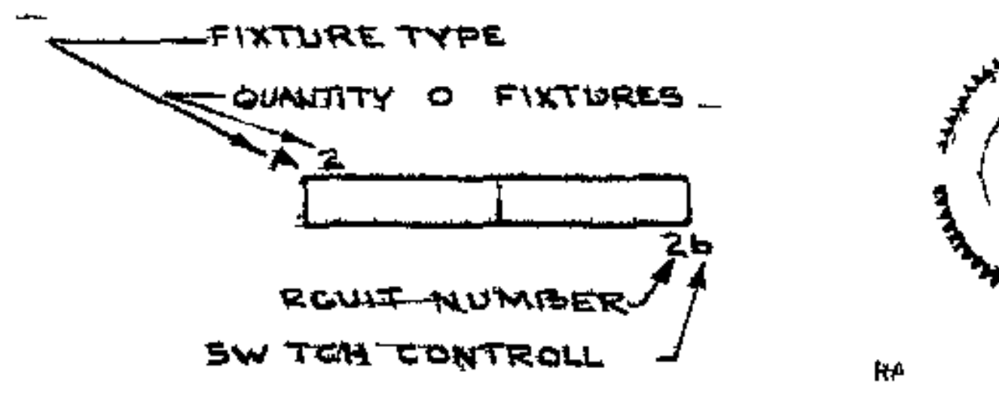
SYMBOL LIST

A	CLG. OUTLET W/ FLUORESCENT FIXTURE TYPE AS I ATED
	WALL OUTLET W/ FLUORESCENT FIXTURE TYPE AS IDICATED
	CLG OUTLET W/ NCANDESCENT FI TURE TYPE AS DICATED
	WALL UTLET W/ CANDESCENT FIXTURE TYPE AS IID CATED
EL	CLG OUTLET W/ EMERGENCY L GHT FIXTURE TYPE AS IN I ATED
	C G OR WALL OUTLET W/ FLOODL GHT TYPE AS ND CATE
EX	EXIT S GN TYPE AS N CATED
A-A	PO T MT'D NCANDES HT FIXTURE TYPE AS I DICATED
SK	KEY OPERATED SW TCH
S	S NGLE POLE SWITCH
S2	DOUBLE P E SWITCH
S3	-WAY SWITCH
S4	4-WAY SWITCH
SR	LOW V LTAGE REMOTE CONTROL SWITCH
SRP	LOW VO TAGE REMOTE CONTROL SW W/PILOT L HT
SP	SING E POLE W/PI OT L GHT (2 G NG)
SRK	LOW VOLTAGE REMOTE CONTROL KEY OPERATED SW TCH
	DUPLEX RECEPTACLE GROUNDED TYPE 2 AMP
	WEATHERPROOF DUPLEX RECEPTACLE GRND TYPE 20AMP
R	RANGE OUTLET 5 A-2P
	CLASSROOM U T VEN OUTLET
	D PLEX RECE ACLE GROUNDE TYPE 20AMP M H 40 OR ABOVE COUNTER
A	INGLE GAN FL OR TLET W/12 GRO NDED TYPE CONVEN ENCE O TLET SIM LIAR NA ONAL ELEC. PRO UCTS #805 G 1 800 SER ES BOX (20 AMP)
	F OOR MOUNTED PROJECTOR O TLET
	FLOOR MOUNTED M CROPHONE OUTLET
	FIRE ALARM PULL STAT ON M.H 5 O
F	FIRE ALARM STATION HORN M.H. B
⊗	AUTOMATIC FIRE PROTECT N DEVICE 36 O CLG
	AUTOM TIC FIRE PROTECTION DEV CE ON CL G
HV	HEATING & VENTILATING U IT OR POWER A NDICATED
EF	EXHAUST FAN H S POWER AS NDICATED
5	M TOR N MERAL IND CATES HORSEPOWER
	MOTOR CONTROLLER
	M TOR DISCONNECT SWITCH 4 POLE ON WORK SW TCH AT MOTOR
	TWO S EED MOTOR CONTRO LR (SEE DIAGRAM)
	M TORIZED DAMPER (FURNISHED & N TALLED BY OTHERS W RED BY E.C.)
	AQ ASTAT (FURNISHED & N TALLED BY OTHERS W RED BY E.C.)
C	CAB NET UN T HEATER ¼ HP OR ESS
	FLO R M D TELEP IONE OUT E
	TELEPHONE OUTLET-M.H. 8
S	THERMAL DISCONNECT SW TCH
	L GHTING PANEL
▨	POWER PANEL
	TELEPHONE CAB NET
FAC	FIRE ALARM CONTROL CABINET
PT	ATES LA SR OM CONTR UNIT WITH TV TLET EE DETA DWG E 4
CR	INDICATES CLAS ROOM CONTROL UNIT SEE DETA LS DWG E 4
	TRUMPET STYLE SPEAKER
	F H M SPEAKER ROUN SQUARE W/ D AT S WAL MOUNTED N DE TIO CEIL NG
B	PROGRAM BELL SEE CLOCK SY TEM PEC
C	CLOCK OUTLET W/ SINGLE FACE CLOCK SEE DWG FOR MOUNTING HEIGHTS 4 12
TV	T.V. YSTEM OUTLET M H 8 (BOX & PLATE) 1 GANG BASE 8 P G G ALT
○	N T ON BOX
R	RELAY NTROLL NG LIGHT F XTURES MOUNT NEXT TO L GHT NG PANEL
	PL MOLD TRIP GROUNDED TYPE NATI NA ELECTR C PRODUCT OUTLETS 8 ON CENTER 20AMP OUTLETS
	W RE & CONDU T NO. OF LASHES INDICATES NO. OF WIRES N CONDUIT WHEN MORE THAN #1 AWG MIN
	HOME RUN No OF ARROWS NDICATES N OF CKTS
RC	2 3 CONDUCTOR LOW V LTAGE CONTROL WIRES W/600 V NSULAT ON IN CONDUIT
	2 PEAKER CABLES IN CONDU T SEE SPEC
M	MICRO HONE CABLE N CONDU T SEE PEC
E	EMER ENCY W RING M N OF 2 #12-¾ C. TO BE R N N SE ARATE CONDU T
	IND CATES CIRCU T MON TORED BY AREA PR TECTION RELAY
TV	TV SYSTEM CONDUIT M ¾ C.
	ROOM CALL IN SWITCH
○	P SHBUTTON AUTH 120 20 AC M 5
	BUZZER AUTH 5 2 10-20V
AFF	ABOVE FIN SH FLOOR
SH	SCHOO TO HOME RACEWAY 3/4 C WITH FISH WIRE NLE S OTHERW SE NOTED
	SPECIAL OUTLET-TYPE A INICATED

M. 50 TO ℄ UN ESS OTHERWISE NOTED

M.H. O ℄ UN ESS OTHERW SE NOTED

MH O TO TOP



FIXTURE KEY

ROBERT HOMPSON
RA SOCIAT S
CON TIN INEERS
ARION, MASS.

STON R ASSOCIATES
ARCH TECT
T MA

NEW ELEMENTARY SCHOOL
READING MASS.

ELECTRICAL-SCHEDULES
SYMBOL LIST & DETAILS

E-2

JOB
DRAWN JW
CHECKED GWJ
SCALE NOTED
DATE FEB. 15, 1968

BOILER ROOM POWER PLAN

SCALE 1/4" 1' 0"

SECTION C C

KEY PLAN

TYPE B B FIXTURE MOUNTING DETAIL

TYPICAL TYPE M FIXTURE SWITCHING DETAIL

TYPE M FIXTURE MOUNTING DETAIL FOR CAFETORIUM ONLY

SCALE 1/4" 1'

ROBERT THOMPSON

FRA D A. SOC
DOT TH ENGINEERS
MARION, MASS.

STONER ASSOCIATES
ARCHITECTS

NEW ELEMENTARY SCHOOL
READING MASS

FLOOR PLAN PART "A"
LIGHTING

JOB NO.	DRAWN HG	SCALE 1/8	E-3
	CHECKED GWJ	DATE FEB.15,1968	

STONER ASSOCIATES
ARCHITECTS

NEW ELEMENTARY SCHOOL
READING, MASS

FLOOR PLAN PART "A"
POWER & SIGNAL

E-4

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

NEW ELEMENTARY SCHOOL
READING MASS

FLOOR PLAN PART B
LIGHTING

E-5

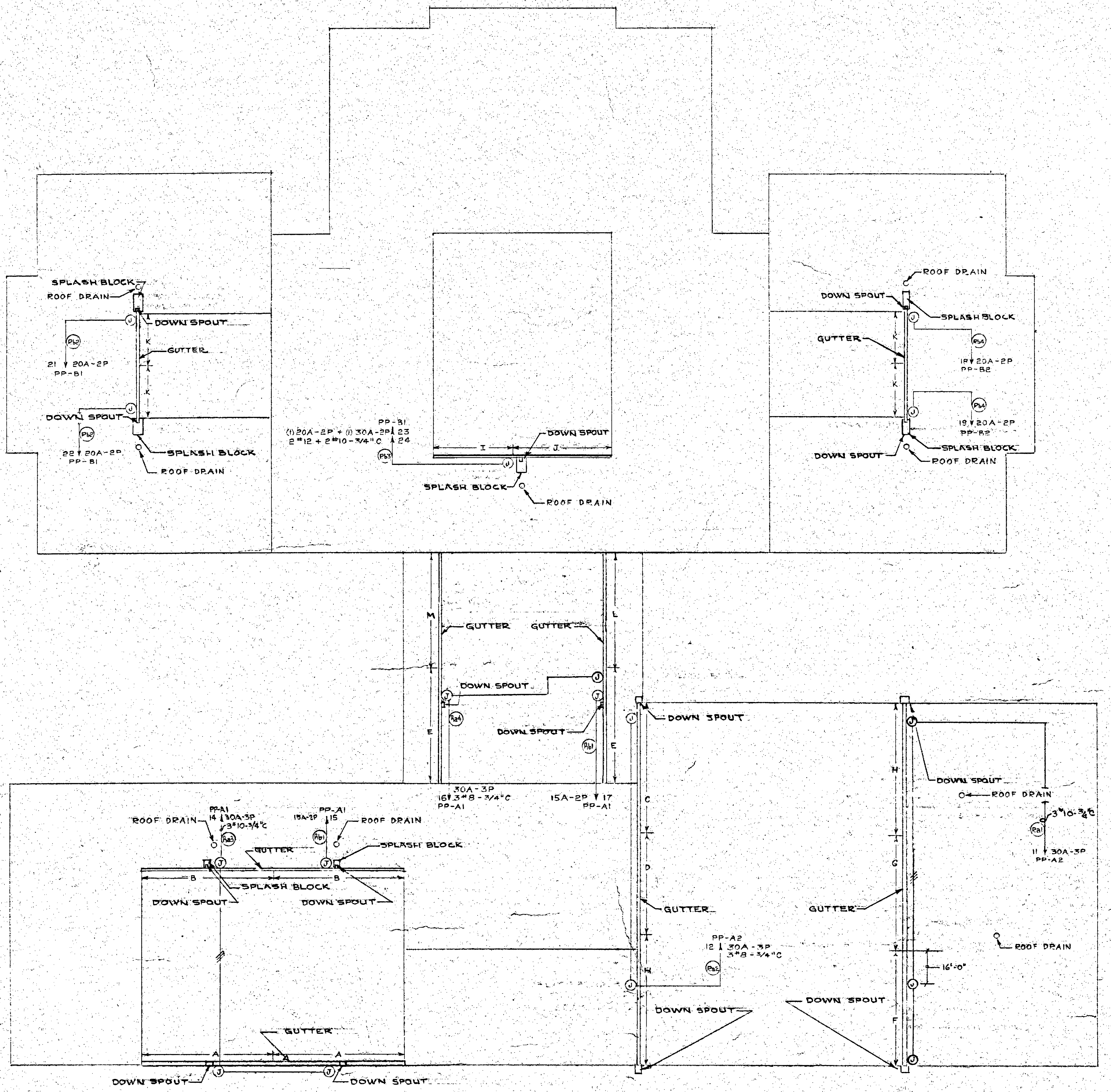
STONER ASSOCIATES
ARCHITECTS
BOSTON MASS

NEW ELEMENTARY SCHOOL
READING MASS

FLOOR PLAN PART B
POWER & SIGNAL

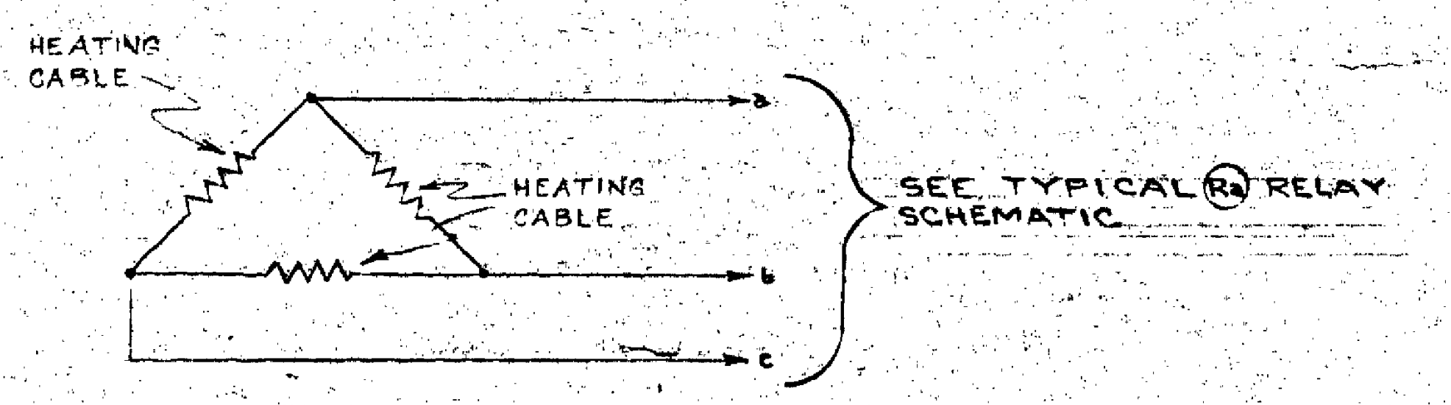
DATE FEB. 62

E-6

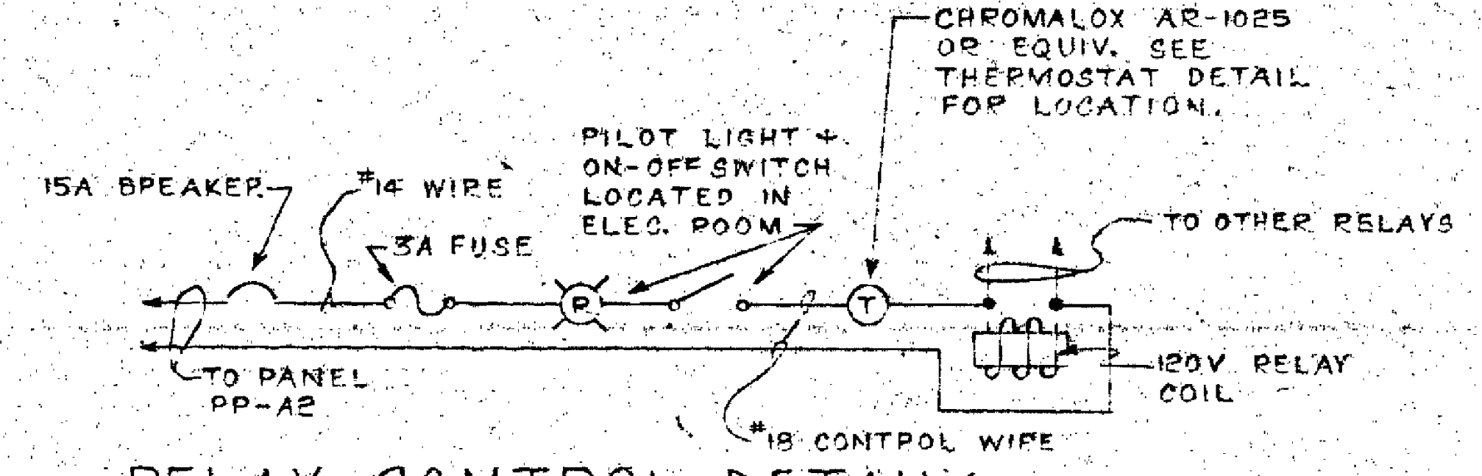


ROOF PLAN

SCALE: 1/16" = 1'0"

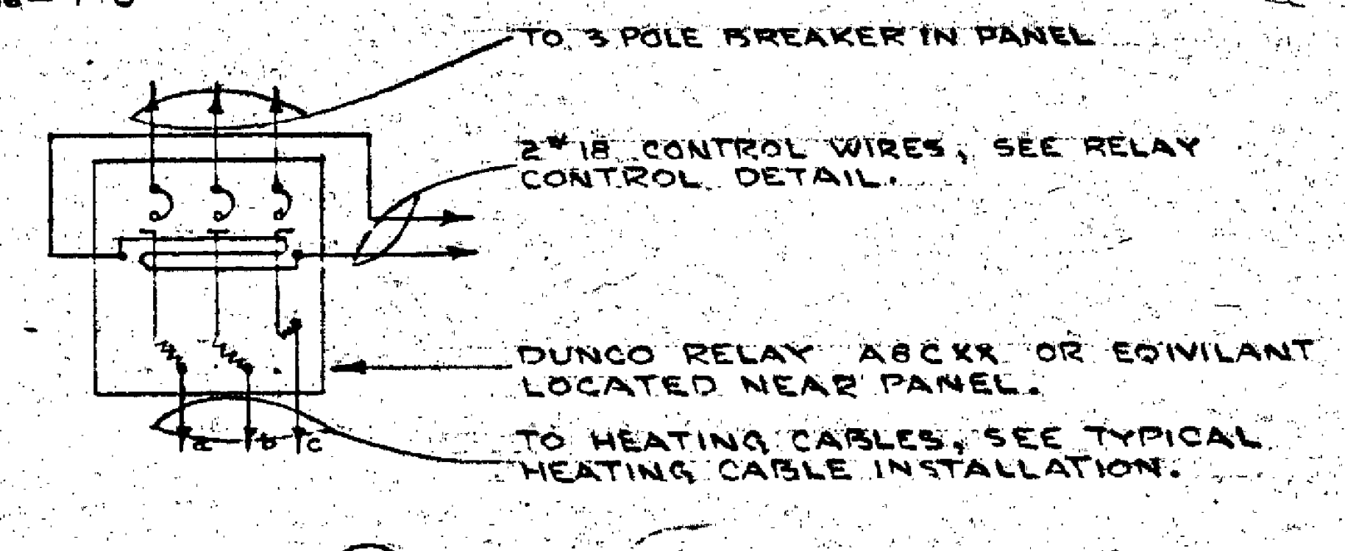


TYPICAL HEATING CABLE SCHEMATIC


CHROMALOX AR-1025 OR EQUIV. SEE THERMOSTAT DETAIL FOR LOCATION.
PILOT LIGHT & ON-OFF SWITCH LOCATED IN ELEC. ROOM
15A BREAKER
#14 WIRE
3A FUSE
TO OTHER RELAYS
TO PANEL PP-A2
120V RELAY COIL
#18 CONTROL WIRE
P
T

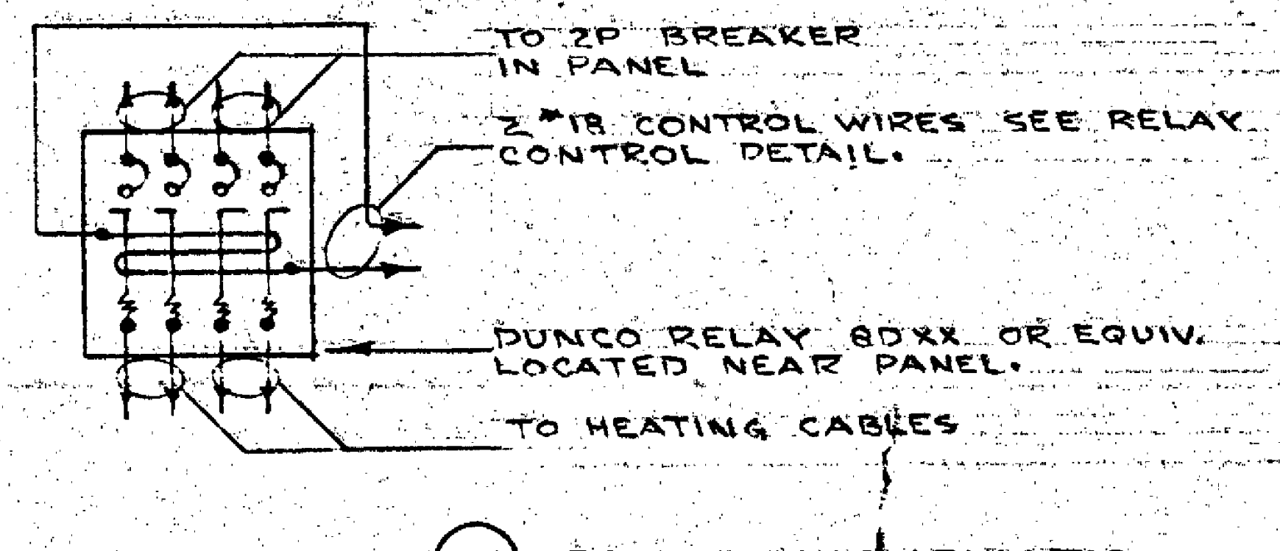
RELAY CONTROL DETAIL

N.T.S.


TO 3 POLE BREAKER IN PANEL
2 #18 CONTROL WIRES, SEE RELAY CONTROL DETAIL.
DUNCO RELAY A8CKX OR EQIVILANT LOCATED NEAR PANEL.
TO HEATING CABLES, SEE TYPICAL HEATING CABLE INSTALLATION.
Ta
Tb
Tc

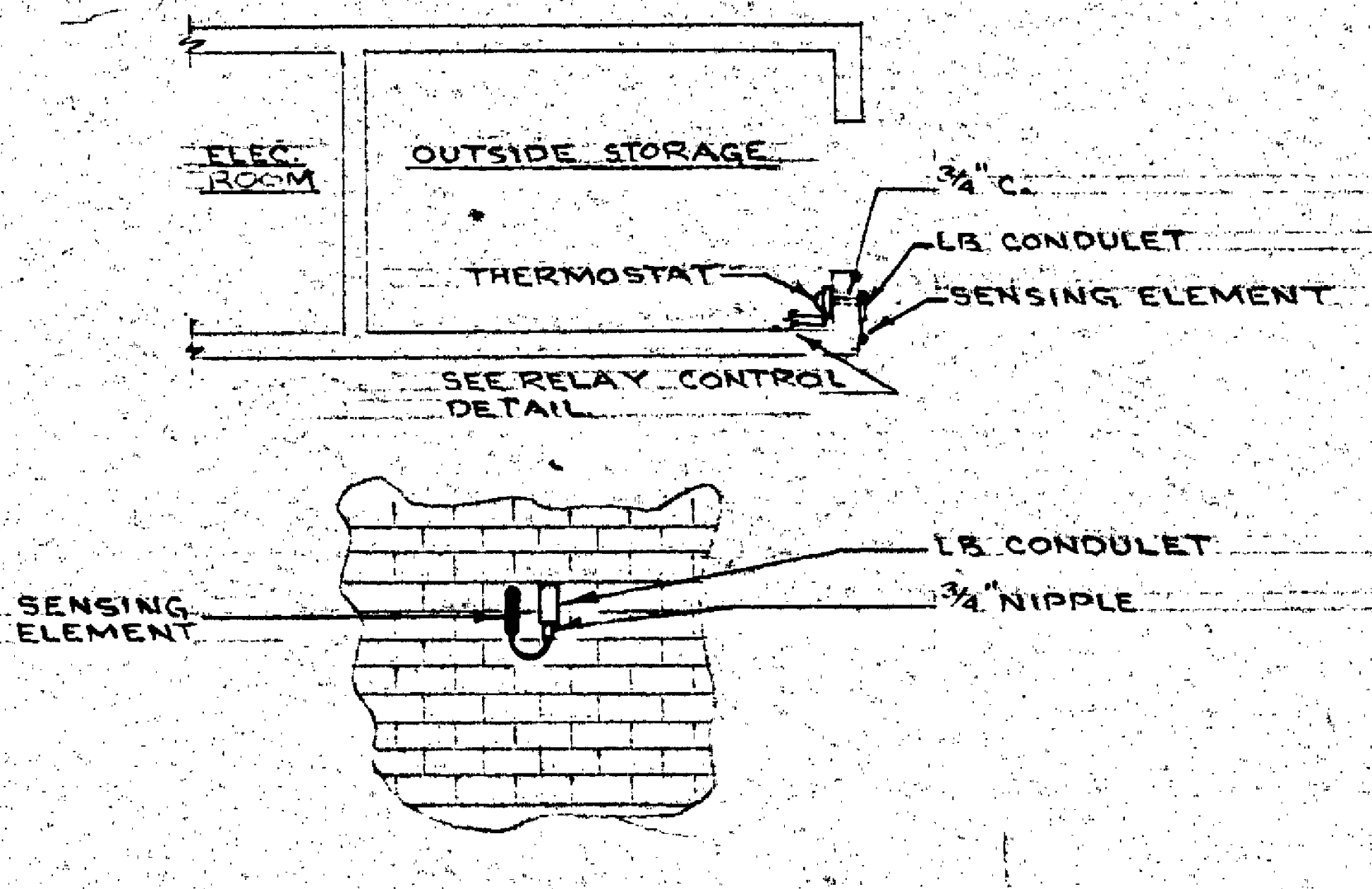
TYPICAL (Ra) RELAY SCHEMATIC

NO SCALE


TO 2P BREAKER IN PANEL
2 #18 CONTROL WIRES SEE RELAY CONTROL DETAIL.
DUNCO RELAY 8DXX OR EQUIV. LOCATED NEAR PANEL.
TO HEATING CABLES

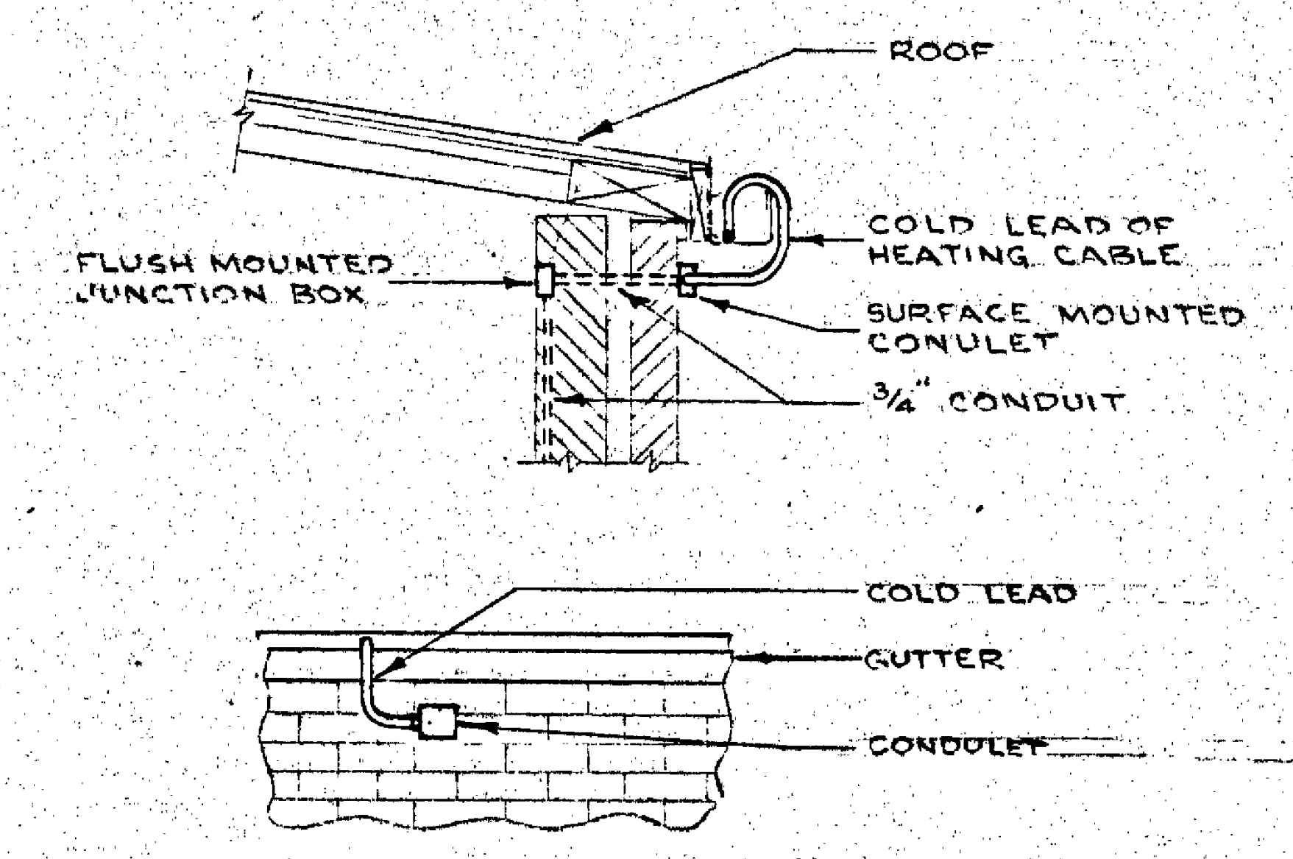
TYPICAL (Rb) RELAY SCHEMATIC

NO SCALE



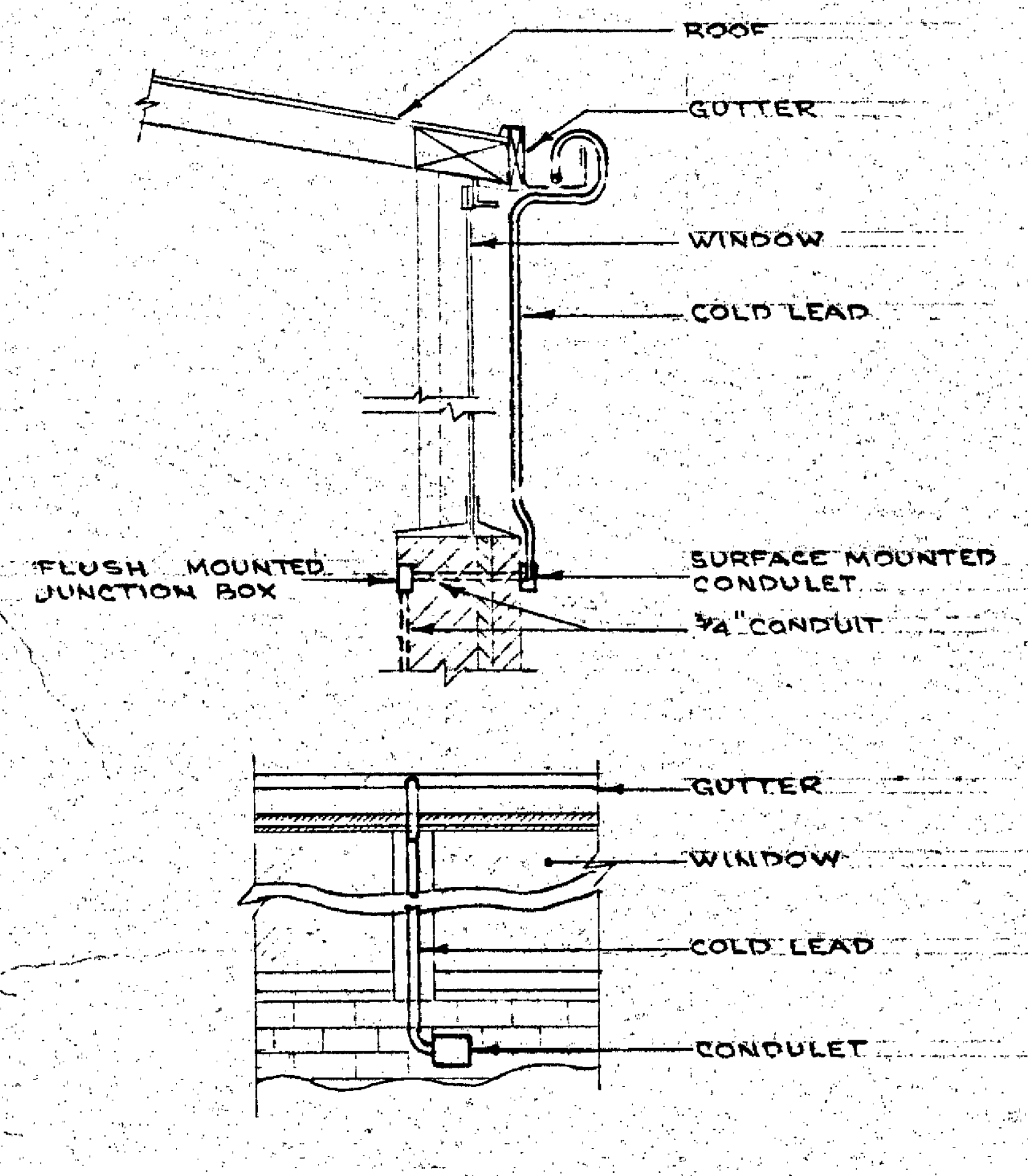
THERMOSTAT DETAIL

NO SCALE



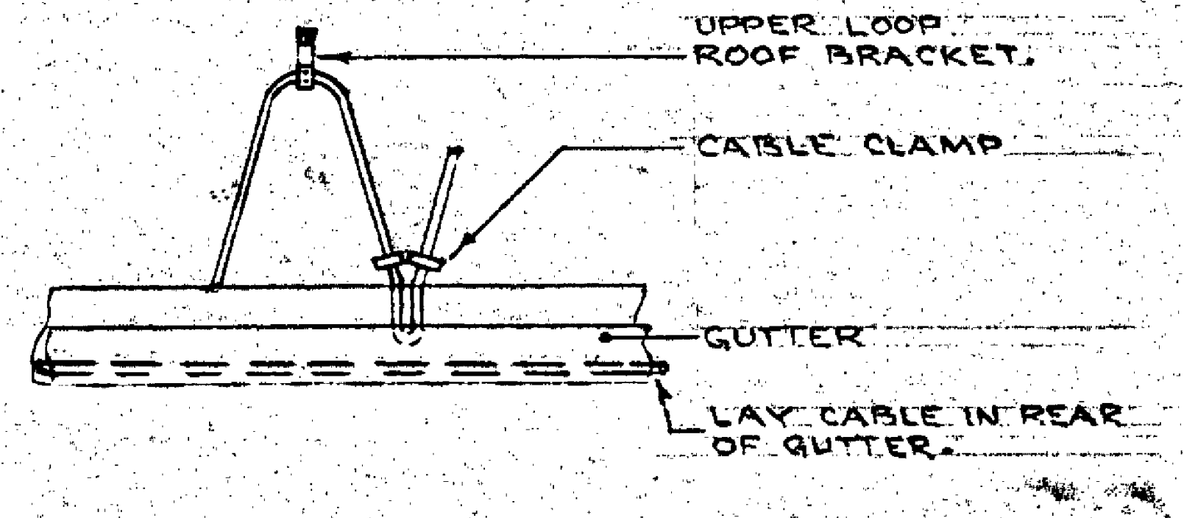
DETAIL-TYPICAL JUNCTION BOX

NO SCALE



DETAIL-TYPICAL JUNCTION BOX MOUNTED BELOW WINDOW

NO SCALE



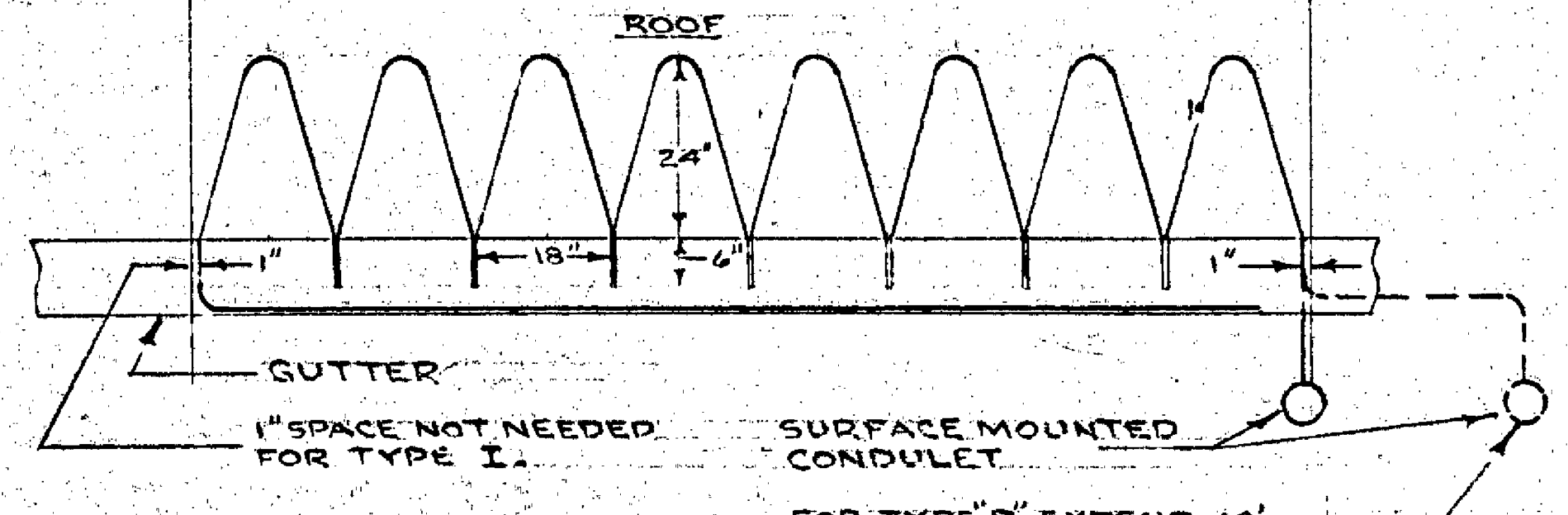
CABLE ANCHOR DETAIL

NO SCALE

SNOW MELTING SCHEDULE

TYPE	TOTAL CABLE LENGTH	CABLE ON ROOF	CABLE IN GUTTER	CABLE IN ROOF DRAIN	CABLE IN DOWN SPOUT	CABLE WATTAGE	REMARKS
A	180'-0"	128'	36'		16'	1920	INSTALLATION TYPE (M)
B	180'-0"	137'	36'	4'	3'	1920	
C	180'-0"	126'	36'		18'	1920	
D	140'-0"	98'	*28'+14'			2470	
E	160'-0"	112'	32'		16'	2160	
F	160'-0"	112'	32'		16'	2160	
G	160'-0"	112'	*32'+16'			2160	
H	180'-0"	126'	36'	3'	18'	1920	
I	100'-0"	78'	22'			3460	
J	140'-0"	107'	27'	3'	3'	2470	
K	120'-0"	98'	16'	3'	3'	2880	(H)
L	200'-0"	160'	•32'+8'			1730	
M	200'-0"	160'	•32'+8'			1730	

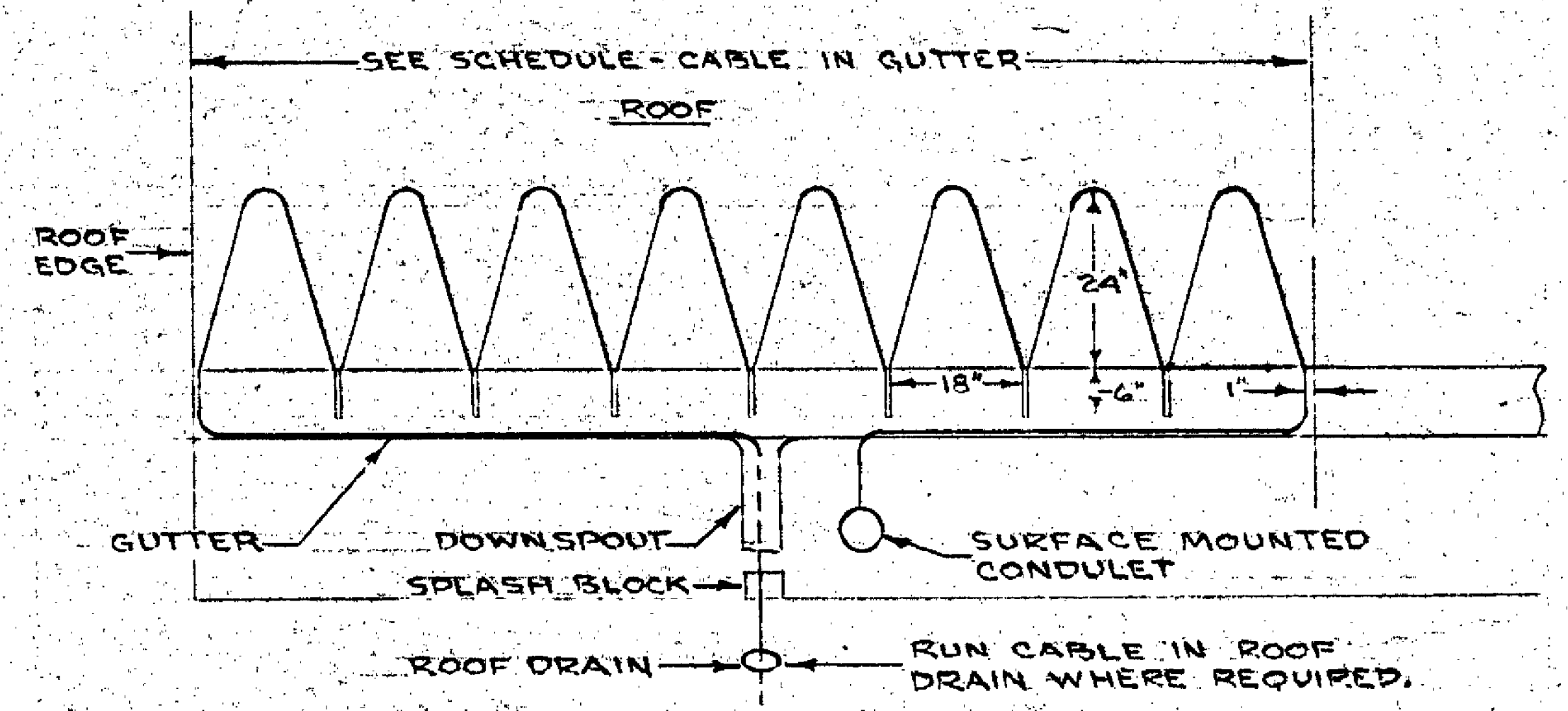
* SEE TYPICAL (M) INSTALLATION
• SEE TYPICAL (H) INSTALLATION W/ DOWNSPOUT & ROOF DRAIN



FOR TYPE "D" EXTEND 14' OF CABLE OVER INTO FRONT OF ADJACENT GUTTER & DROP TO CONDULET AS SHOWN. TYPE "G" REVERSE OF TYPE "D" EXCEPT 16' OF CABLE EXTENDED INTO FRONT OF ADJ. GUTTER.

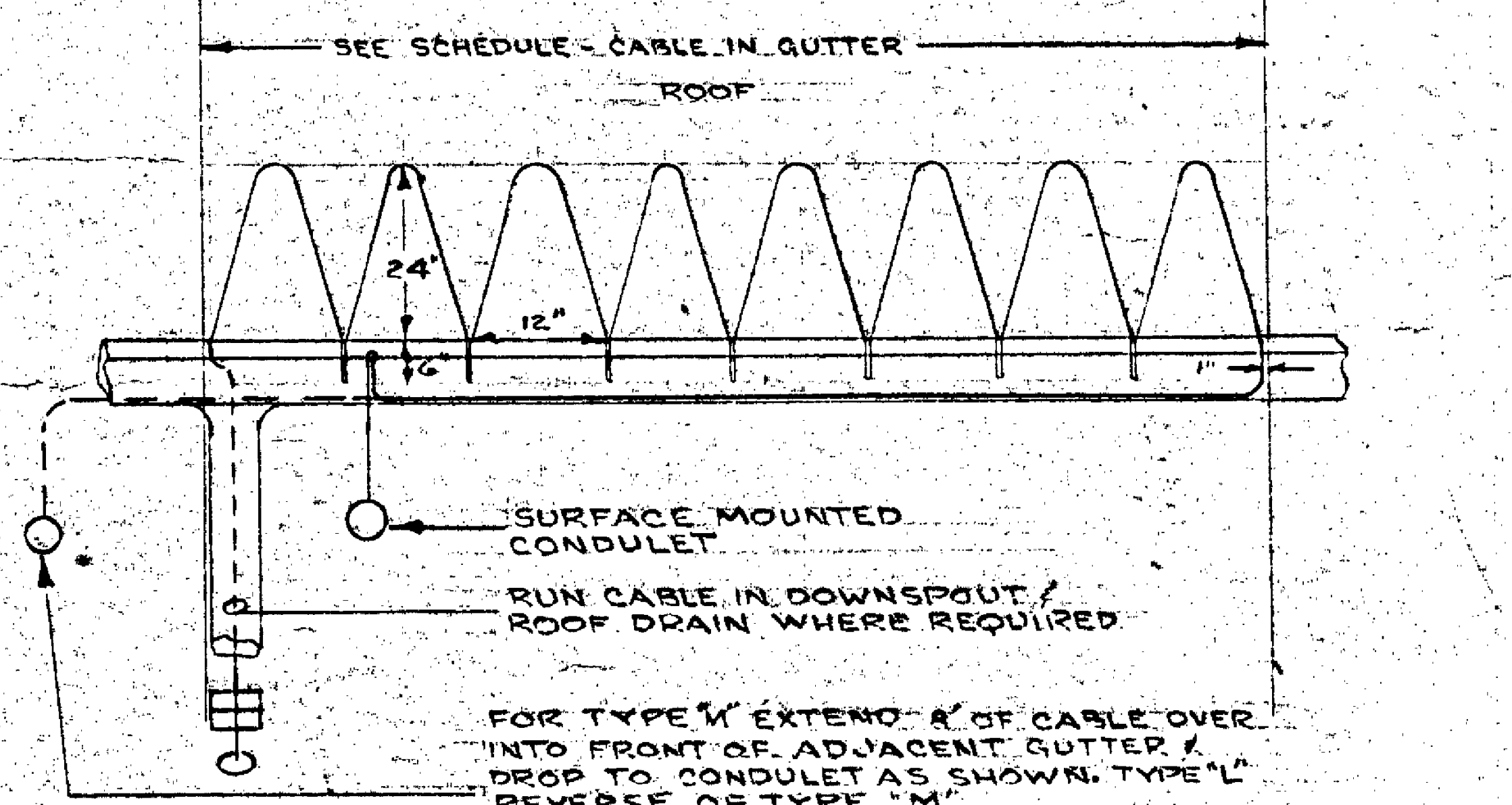
TYPICAL (M) INSTALLATION

NO SCALE



TYPICAL (M) INSTALLATION WITH DOWNSPOUT AND ROOF DRAIN

NO SCALE


SEE SCHEDULE - CABLE IN GUTTER
ROOF
24"
12"
6"
1"
SURFACE MOUNTED CONDULET
RUN CABLE IN DOWNSPOUT & ROOF DRAIN WHERE REQUIRED

FOR TYPE "M" EXTEND 8' OF CABLE OVER INTO FRONT OF ADJACENT GUTTER & DROP TO CONDULET AS SHOWN. TYPE "L" REVERSE OF TYPE "M"

TYPICAL (H) INSTALLATION WITH DOWNSPOUT AND ROOF DRAIN

NO SCALE

NOTES:

1. DO NOT LET WIRES TOUCH ONE ANOTHER.
2. ALL METAL GUTTERS, ROOF DRAINS & DOWNSPOUTS TO BE GROUNDED TO DRIVEN GROUND ROD. GROUND ROD TO BE OF COPPER & BE 8'-0" IN LENGTH.

ROBERT W. THOMPSON

FRANCIS ASSOCIATES, INC.
CONSULTING ENGINEERS
MARION MASS.

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS.

NEW ELEMENTARY SCHOOL
READING MASS

ROOF & GUTTER
DE-ICING SYSTEM

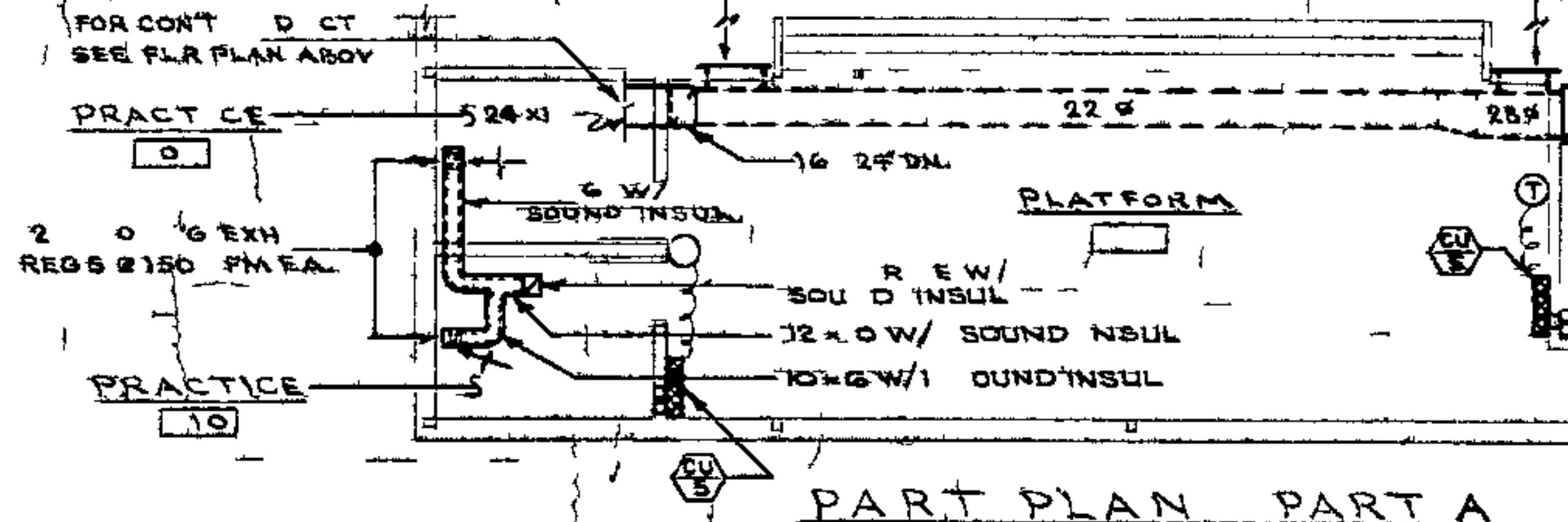
DR. No. E-7

JOB No.
DRAWN DJ
SCALE AS NOTED
CHECKED GWJ
DATE FEB. 15, 1968

ELECTRIC ROOM ALTERNATE #5
SCALE 1/4" = 1'-0"

CAFETORIUM SUPPLY REG DETAIL
SCALE 1" = 1'-0"

KEY PLAN


36 20 REG @ 2600 CFM (AT FLR)
FOR CONT DUCT SEE FLR PLAN ABOVE
PRACTICE
0
PLATFORM
SOUND INSUL
PRACTICE
10

PART PLAN PART A
SCALE 1/8" = 1'-0"

NOTES

1. ALL PIPING RUNOUTS TO DIRECT RADIATION SHALL BE 3/4" UNLESS OTHERWISE INDICATED
2. ALL LOUVERED DOORS & UNDERCUT DOORS ARE BY THE GEN'L CONTR. SIZES INDICATED ARE MINIMUM REQUIREMENTS
3. DUCTWORK THAT IS EXPOSED BELOW CLG IN KITCHEN TO BE STAINLESS STEEL

Materials and construction will conform with the requirements of the structural regulations for school houses

SIGNED Charles A. Crowley Jr

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS

NEW ELEMENTRY SCHOOL
READING MASS

FLOOR PLAN PART-A
HEATING

DRAWN ES
CHECKED R.B.
SCALE 1/8" = 1'-0"
DATE 2 56
DWG NO. H-1

FRANCIS ASSOCIATES INC.
CONSULTING ENGINEERS
MARION, MASS.

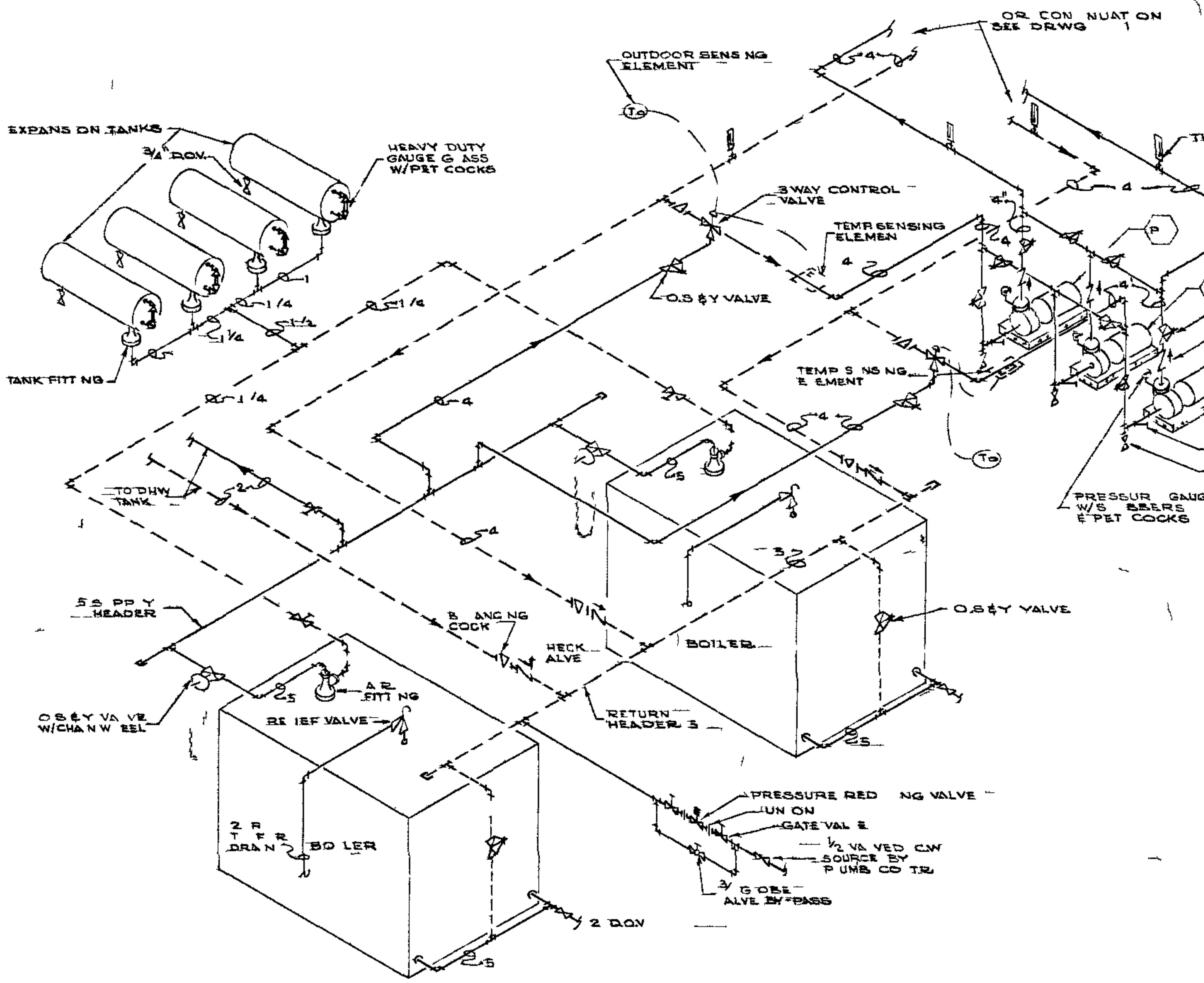
STONER ASSOCIATES
ARCHITECTS BOSTON MASS

NEW ELEMENTRY SCHOOL
READING, MASS

FLOOR PLAN PART-B
HEATING

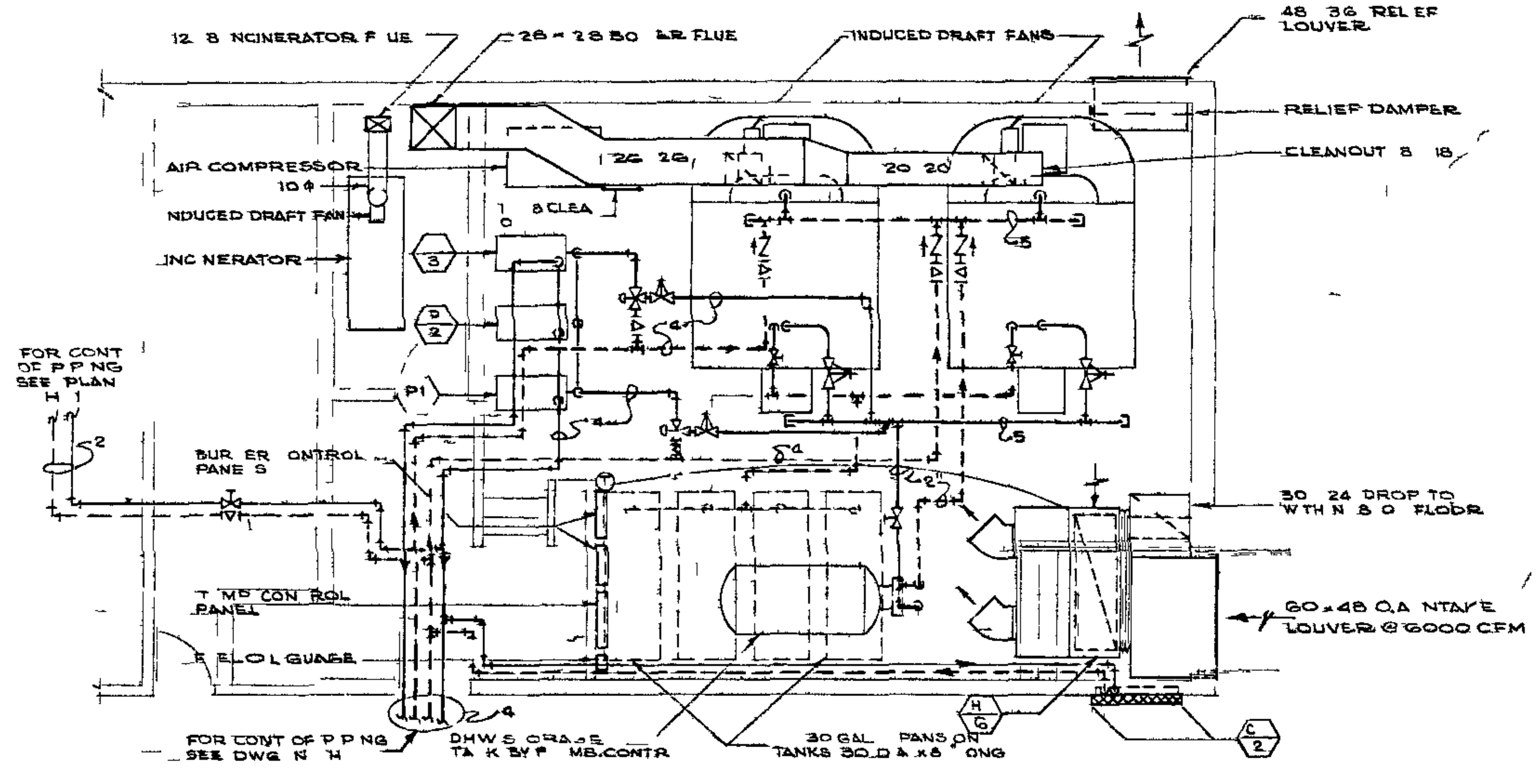
DWG NO H-2

DRAWN ES	SC ⅛" 1'-0"
CHK RTB	DATE 2 15 68



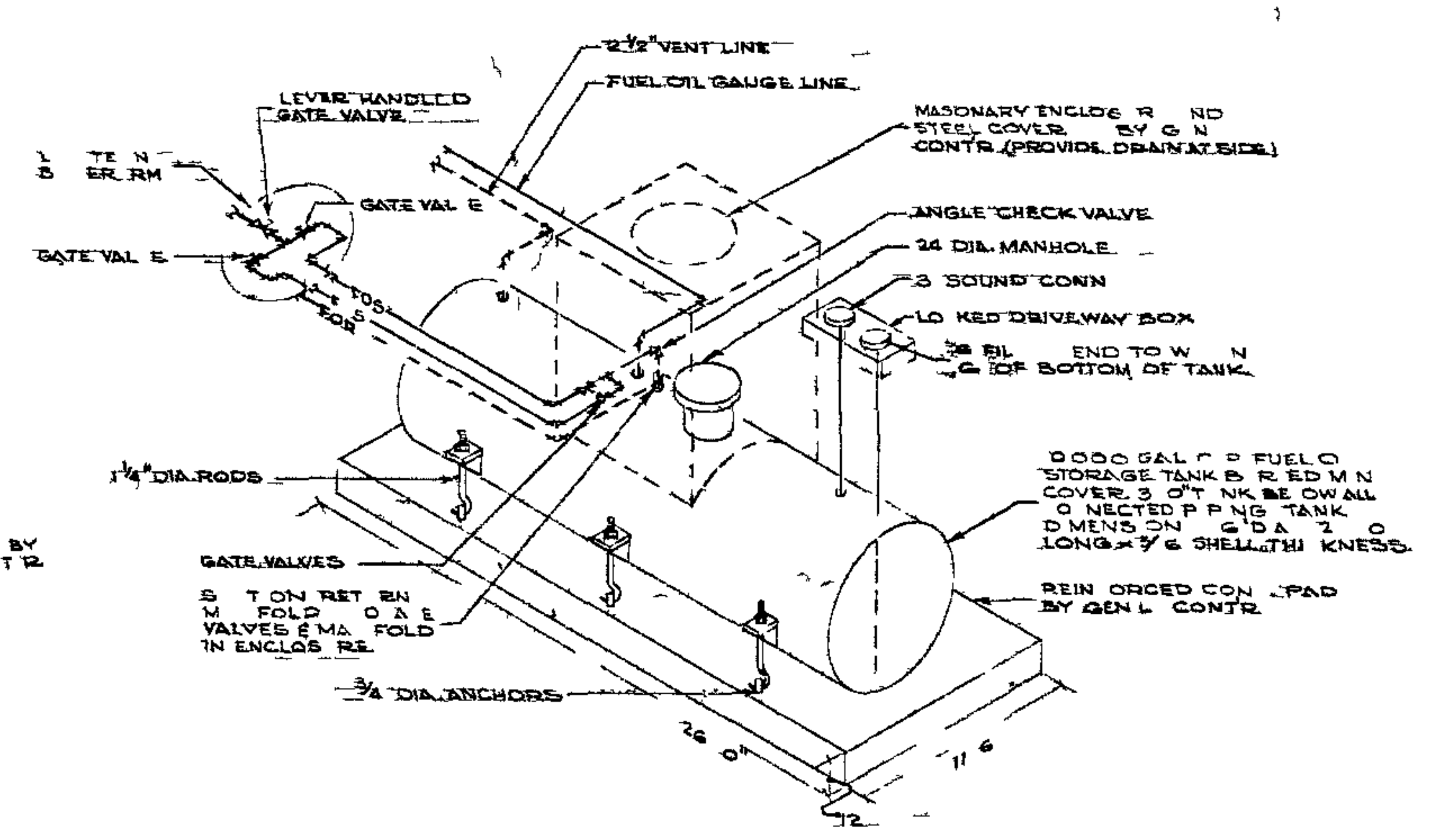
BOILER PIPING SCHEMATIC

NO SCALE



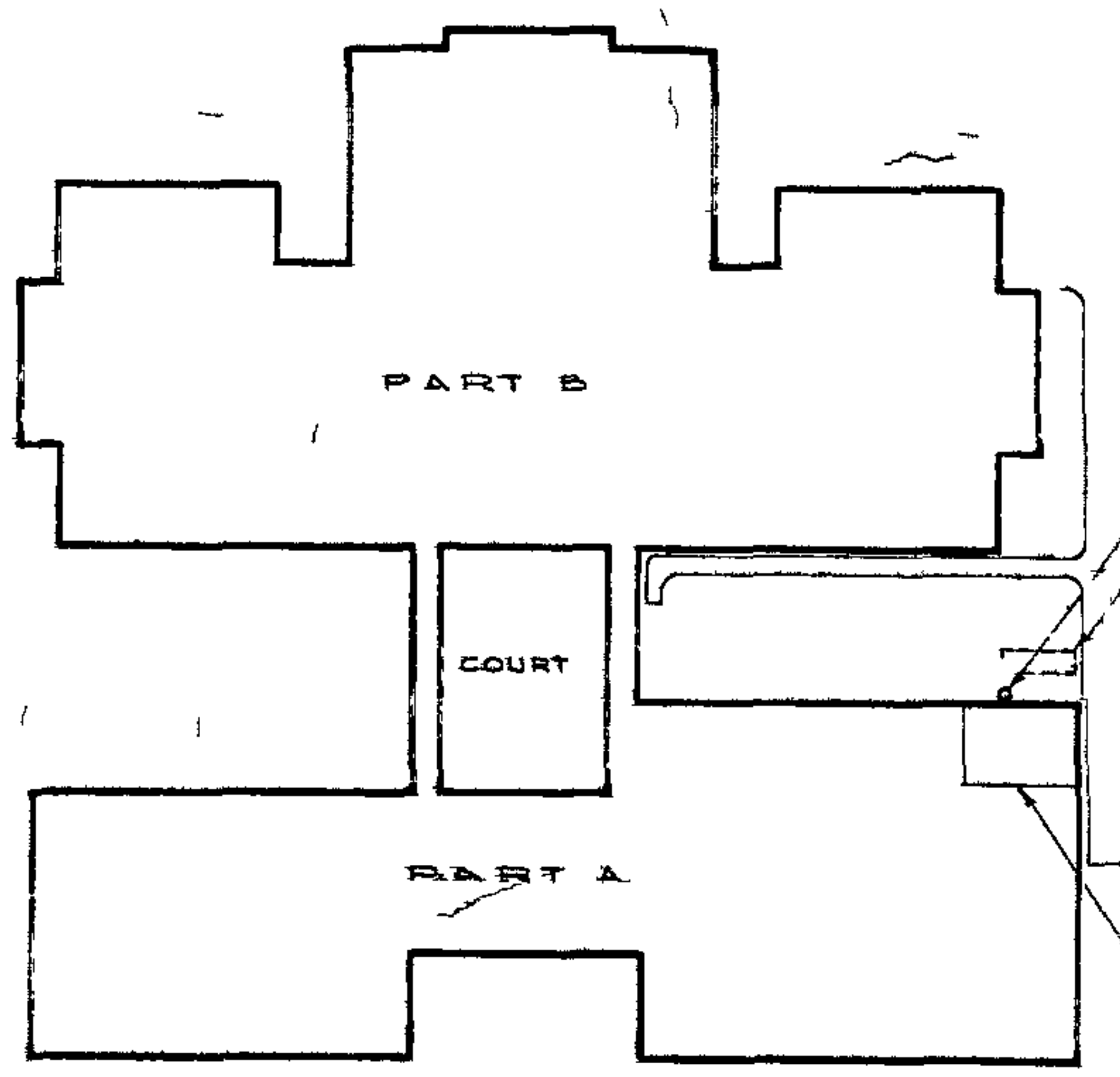
BOILER ROOM PLAN

SCALE 1/8 1 0


2½" VENT LINE
FUEL OIL GAUGE LINE
LEVER HANDLED GATE VALVE
GATE VALVE
GATE VALVE
MASONARY ENCLOSURE AND STEEL COVER BY GEN CONTR (PROVIDE DRAIN AT SIDE)
ANGLE CHECK VALVE
24 DIA. MANHOLE
3 SOUND CONN
LOCKED DRIVEWAY BOX
END TO WITHIN OF BOTTOM OF TANK
1¼" DIA. RODS
GATE VALVES
VALVES & MANIFOLD IN ENCLOSURE
10000 GAL FUEL OIL STORAGE TANK BURIED MIN COVER 3 0" TANK BE CONNECTED PIPING TANK DIMENSIONS 10 0 DIA 20 0 LONG 5/16 SHELL THICKNESS
REINFORCED CONC. PAD BY GEN'L CONTR
3/4" DIA. ANCHORS
26 0"
11 6
12

SCHEMATIC OF FUEL OIL STORAGE TANK

NO SCALE

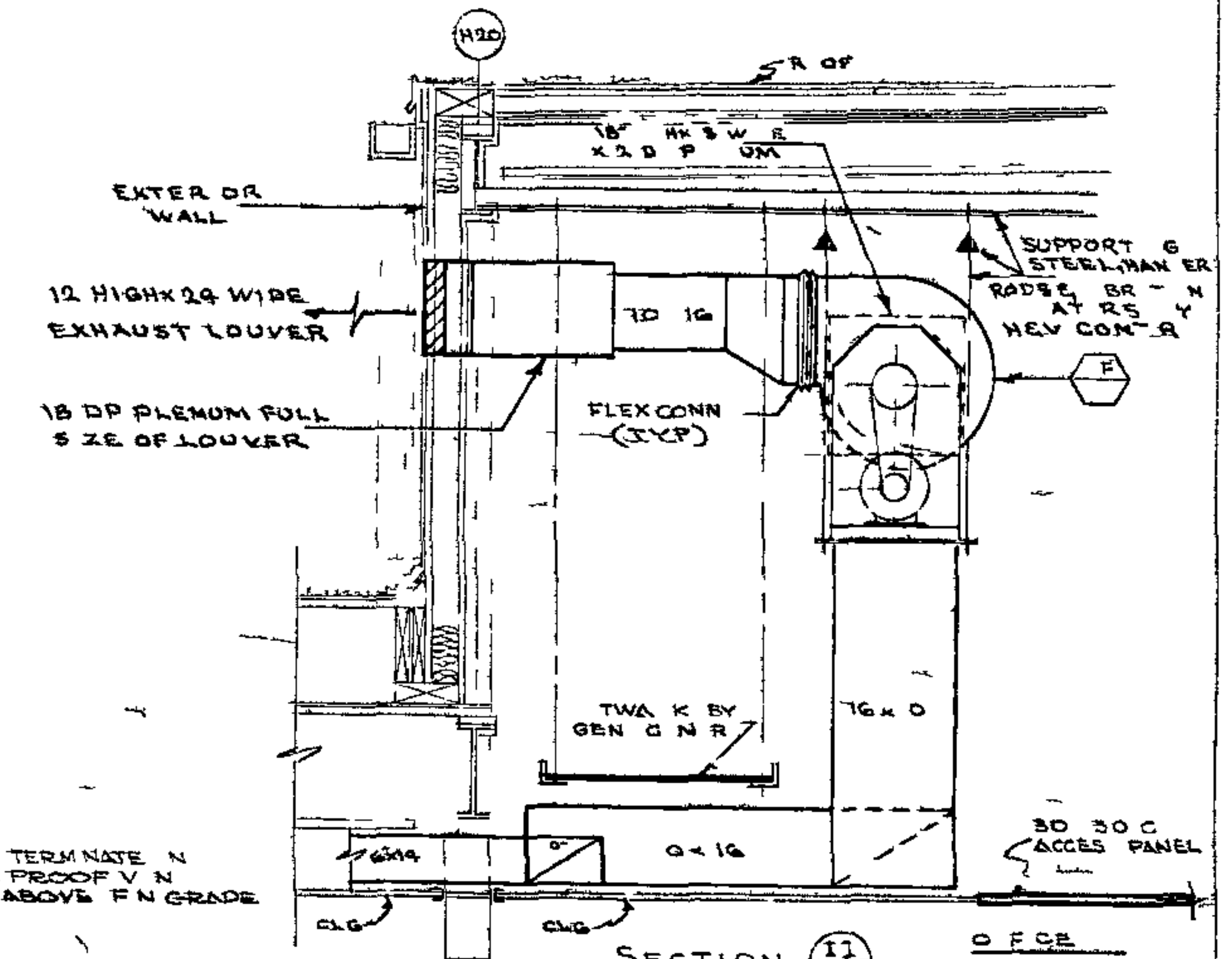

PART B
COURT
PART A
2½ VENT TERMINATE IN WEATHERPROOF VENT CAP 8 0 ABOVE FIN GRADE
BURIED FUEL OIL STORAGE TANK (SEE PIPING DETAIL)
BOILER ROOM
NORTH

SITE PLAN

SCALE 1 40 0

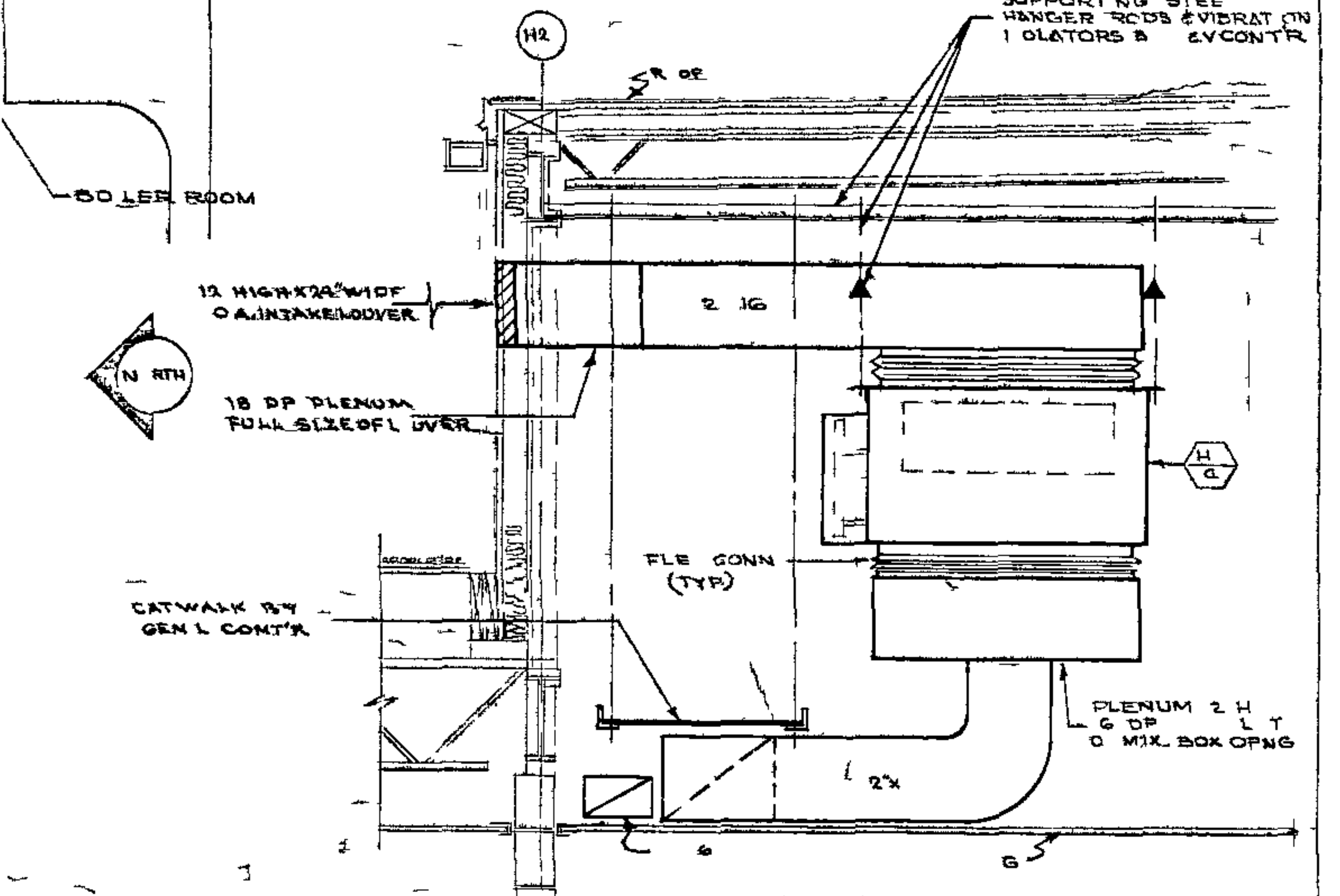
LEGEND

- HOT WATER SUPPLY
- HOT WATER RETURN
- GATE VALVE
- BALANCING COCK
- 2 WAY CONTROL VALVE
- 3 WAY CONTROL VALVE
- CHECK VALVE
- OS&Y VALVE
- GLOBE VALVE
- STRAINER
- PRESSURE REDUCING VALVE
- EXPANSION JOINT
- UNION
- PIPE ANCHOR
- FLOW CONTROL VALVE
- Ⓣ THERMOSTAT
- OUTDOOR SENSING ELEMENT
- NIGHT THERMOSTAT
- AUTOMATIC AIR ELIMINATOR


H20
ROOF
EXTERIOR WALL
12 HIGH × 24 WIDE EXHAUST LOUVER
18 DP PLENUM FULL SIZE OF LOUVER
FLEX CONN (TYP)
SUPPORT STEEL HANGER RODS
E
TWALK BY GEN CONTR
16 × 0
30 30 ACCESS PANEL
OFFICE
CLG

SECTION (II/H2)

SCALE 3/4 1 0


H2
ROOF
SUPPORTING STEEL HANGER RODS & VIBRATION ISOLATORS BY CONTR
12 HIGH × 24 WIDE O.A. INTAKE LOUVER
18 DP PLENUM FULL SIZE OF LOUVER
FLEX CONN (TYP)
CATWALK BY GEN'L CONT'R
PLENUM 2 H 6 DP O MIX. BOX OPNG
H
WORK 120

SECTION (JJ/H2)

SCALE 3/4 1 0

CHARLES CROWLEY No. 14117

FRA SOC INC.
MARION MASS.

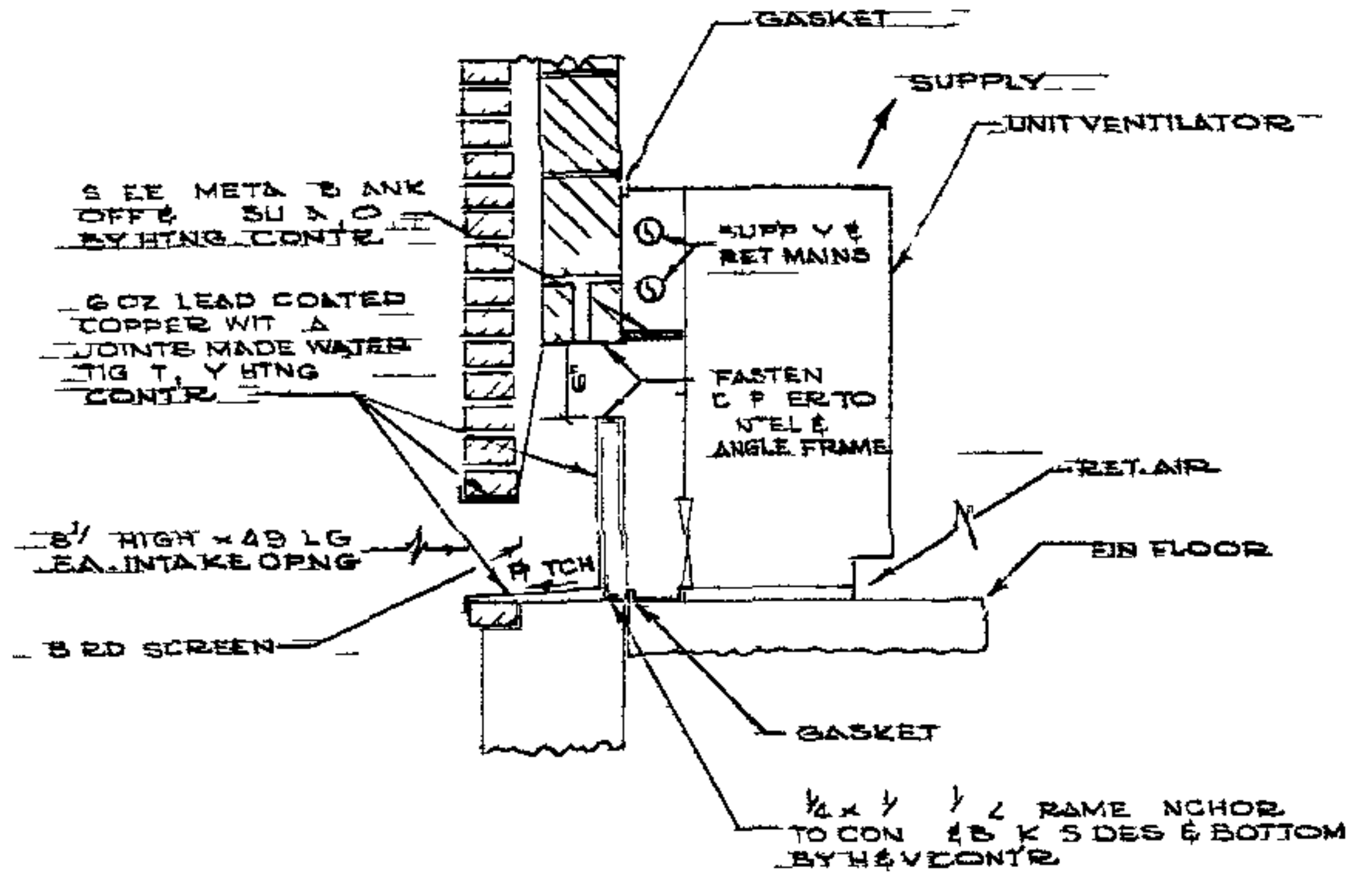
STONER ASSOCIATES
ARCHITECTS
BO O MASS.

NEW ELEMENTRY SCHOOL
READING MASS.

BOILER ROOM PLAN
& PIPING DIAGRAM

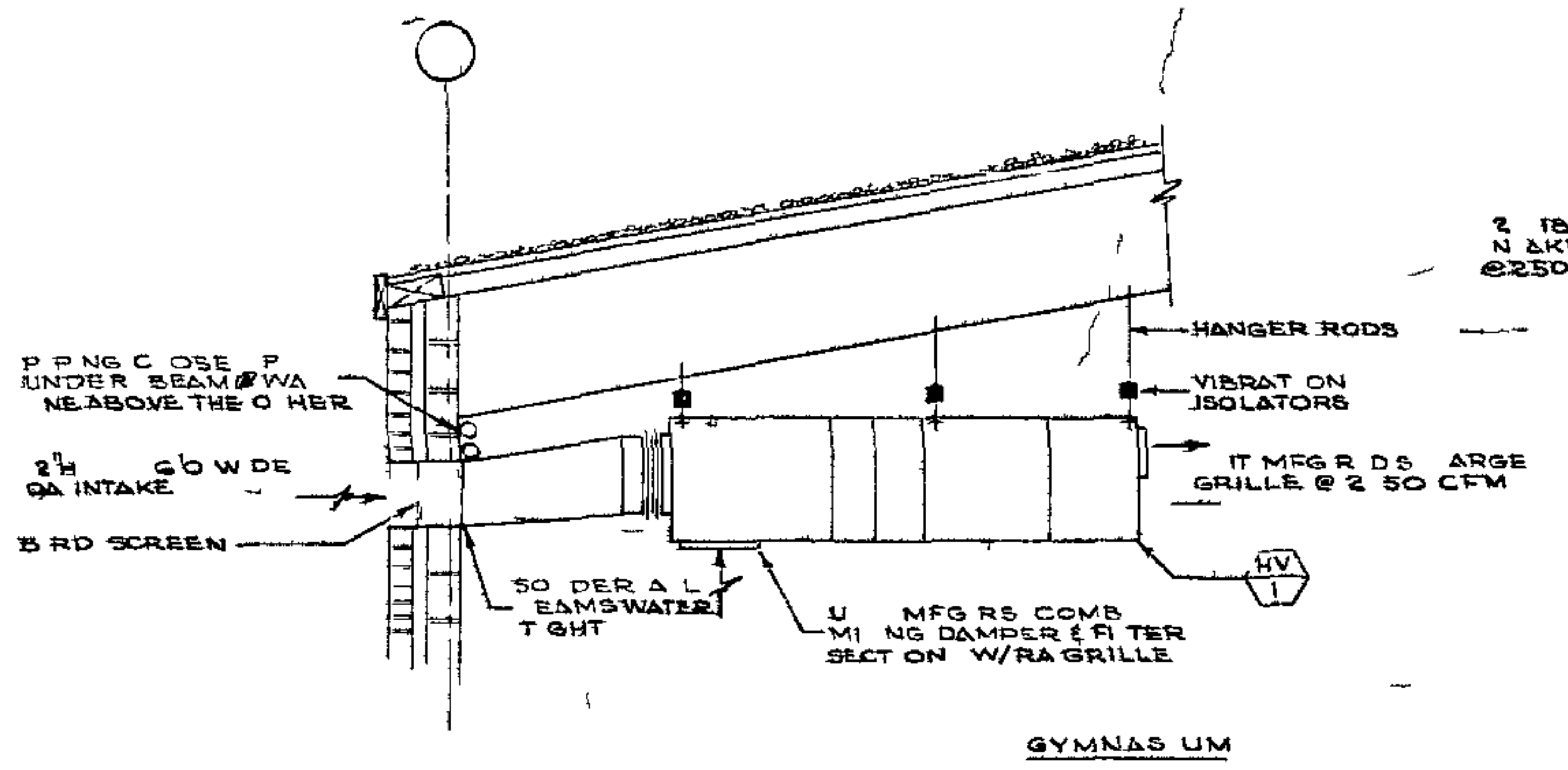
DRAWN WAJ
CHECK R.T.D.
SCALE AS NOTED
DATE

H-3


GASKET
SUPPLY
UNIT VENTILATOR
SEE METAL BLANK OFF & SU O BY HTNG CONTR
SUPPLY & RET MAINS
6 OZ LEAD COATED COPPER WIT A JOINTS MADE WATER TIGHT, BY HTNG CONTR
FASTEN COPPER TO NTEL & ANGLE FRAME
RET AIR
8" HIGH × 49 LG FA INTAKE OPNG
PITCH
FIN FLOOR
BIRD SCREEN
GASKET
¼ × ½ ½ ∠ FRAME ANCHOR TO CON & B K SIDES & BOTTOM BY H&V CONTR

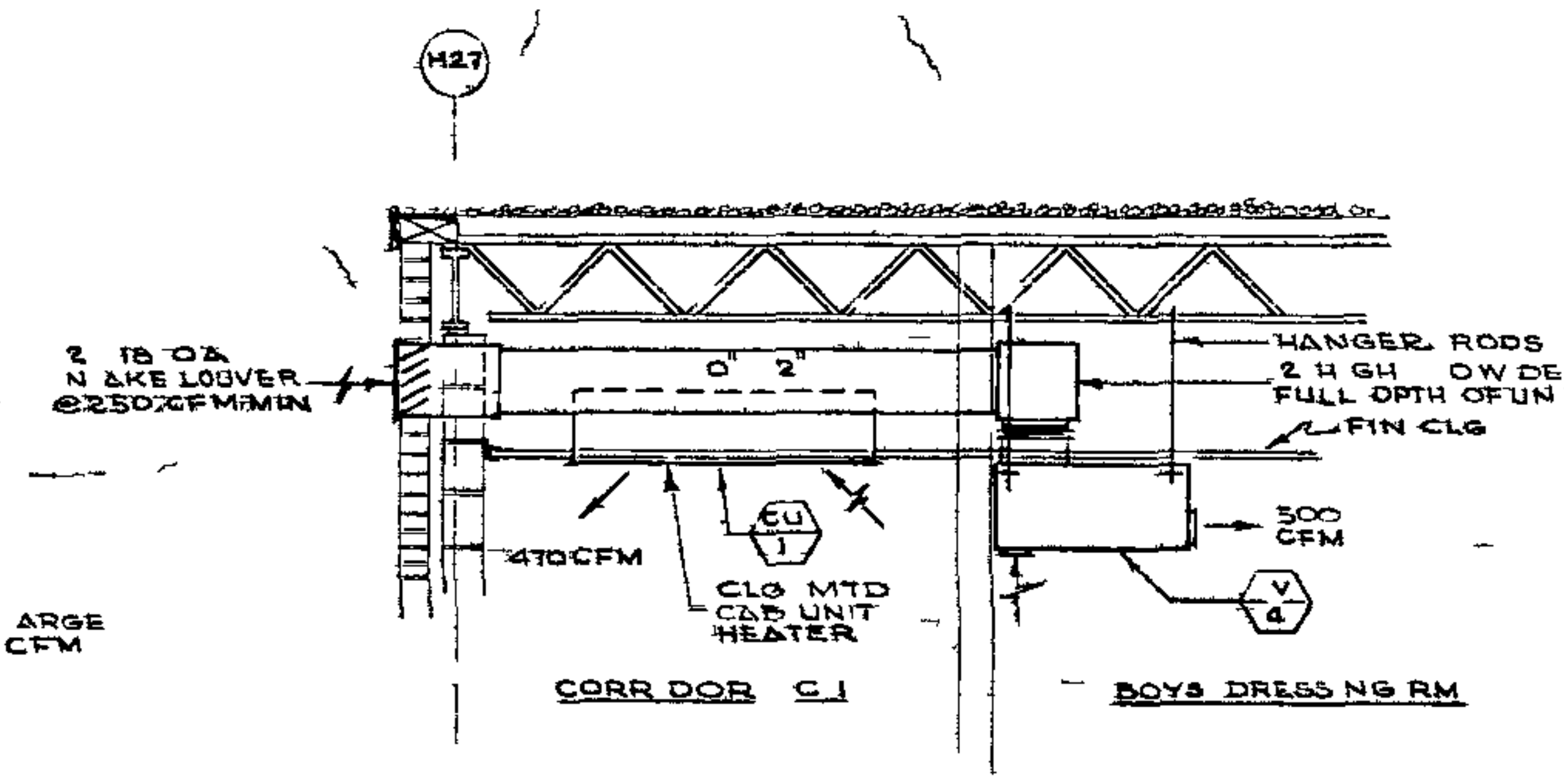
SECTION THRU UNIT VENT INTAKE

SCALE 1"=1'0"
SEE ARCH DETAIL


PIPING CLOSE UP UNDER BEAM @ WALL NE ABOVE THE OTHER
2'4" 6'0" WIDE OA INTAKE
BIRD SCREEN
SOLDER ALL SEAMS WATER TIGHT
HANGER RODS
VIBRATION ISOLATORS
IT MFGRS DISCHARGE GRILLE @ 2 50 CFM
HV 1
U MFGRS COMB MIXING DAMPER & FILTER SECTION W/RA GRILLE
GYMNASIUM

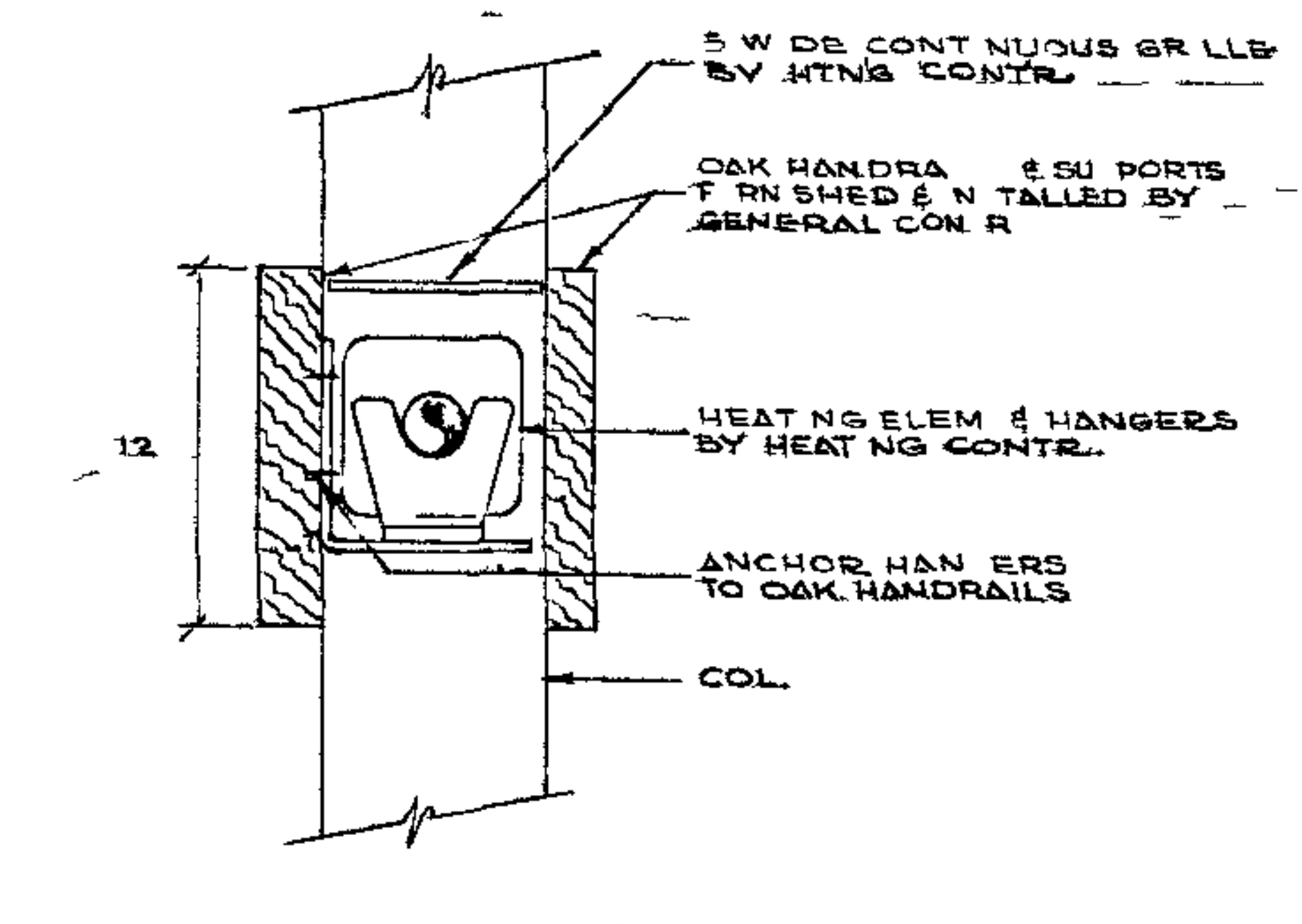
SECTION $\frac{AA}{H1}$

SCALE ¼" 1-0



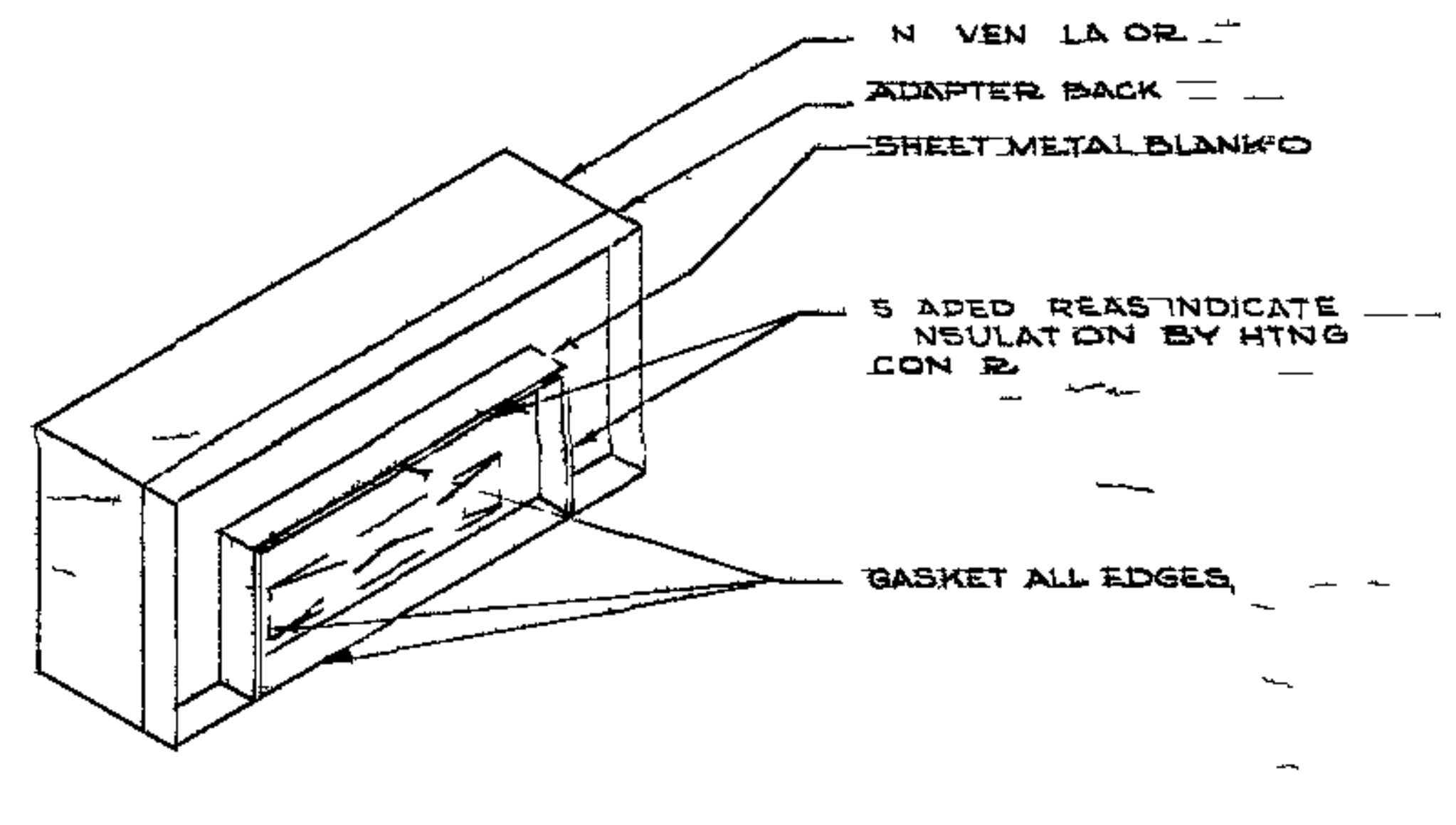
SECTION $\frac{BB}{H1}$

SCALE ½" 1-0


5 WIDE CONTINUOUS GRILLE BY HTNG CONTR
OAK HANDRAIL & SUPPORTS FURNISHED & INSTALLED BY GENERAL CONTR
HEATING ELEM & HANGERS BY HEATING CONTR
12
ANCHOR HANGERS TO OAK HANDRAILS
COL

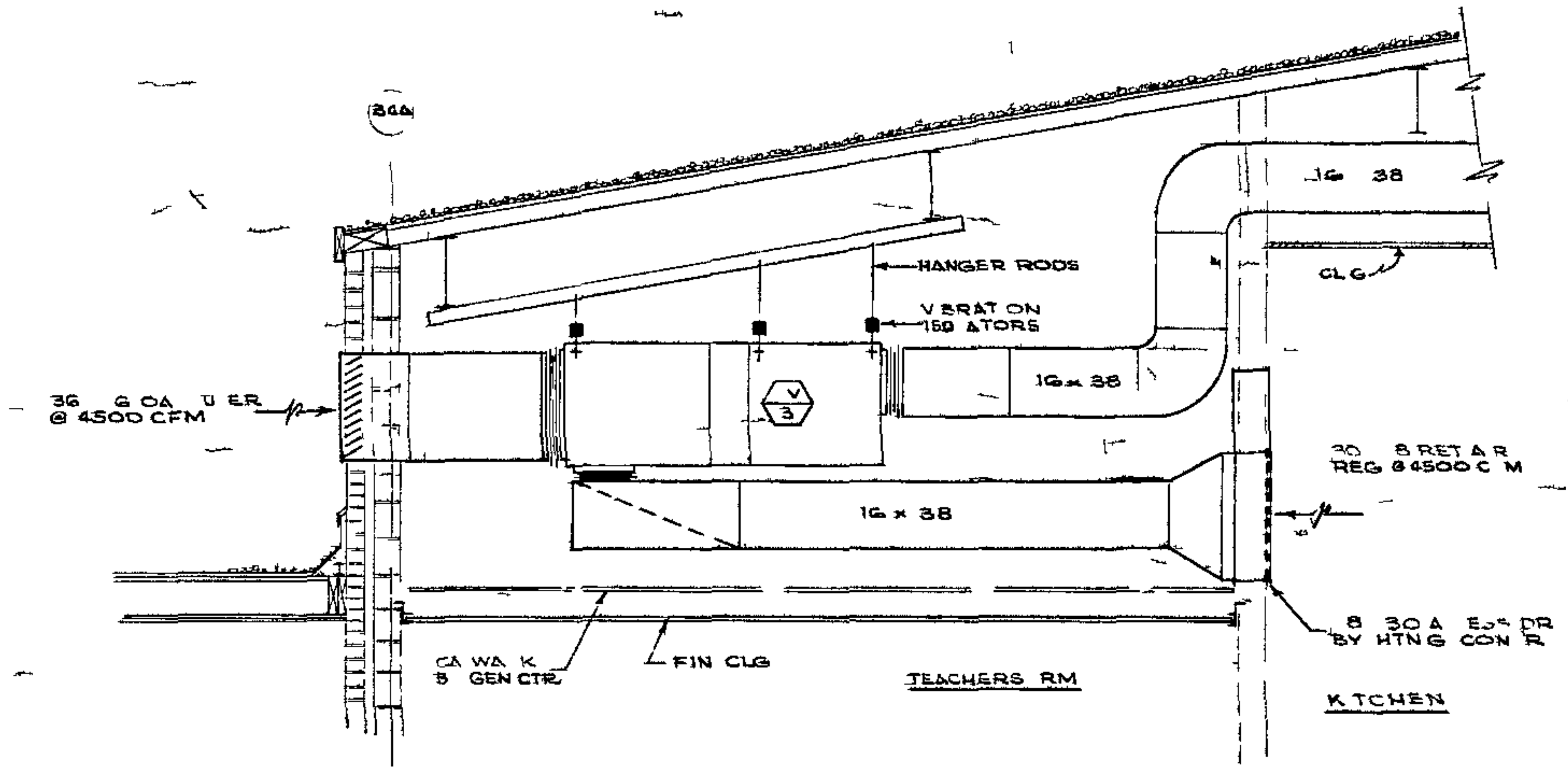
SECTION $\frac{CC}{H1}$

SCALE 3" 1'0"
SEE ARCH DETAIL



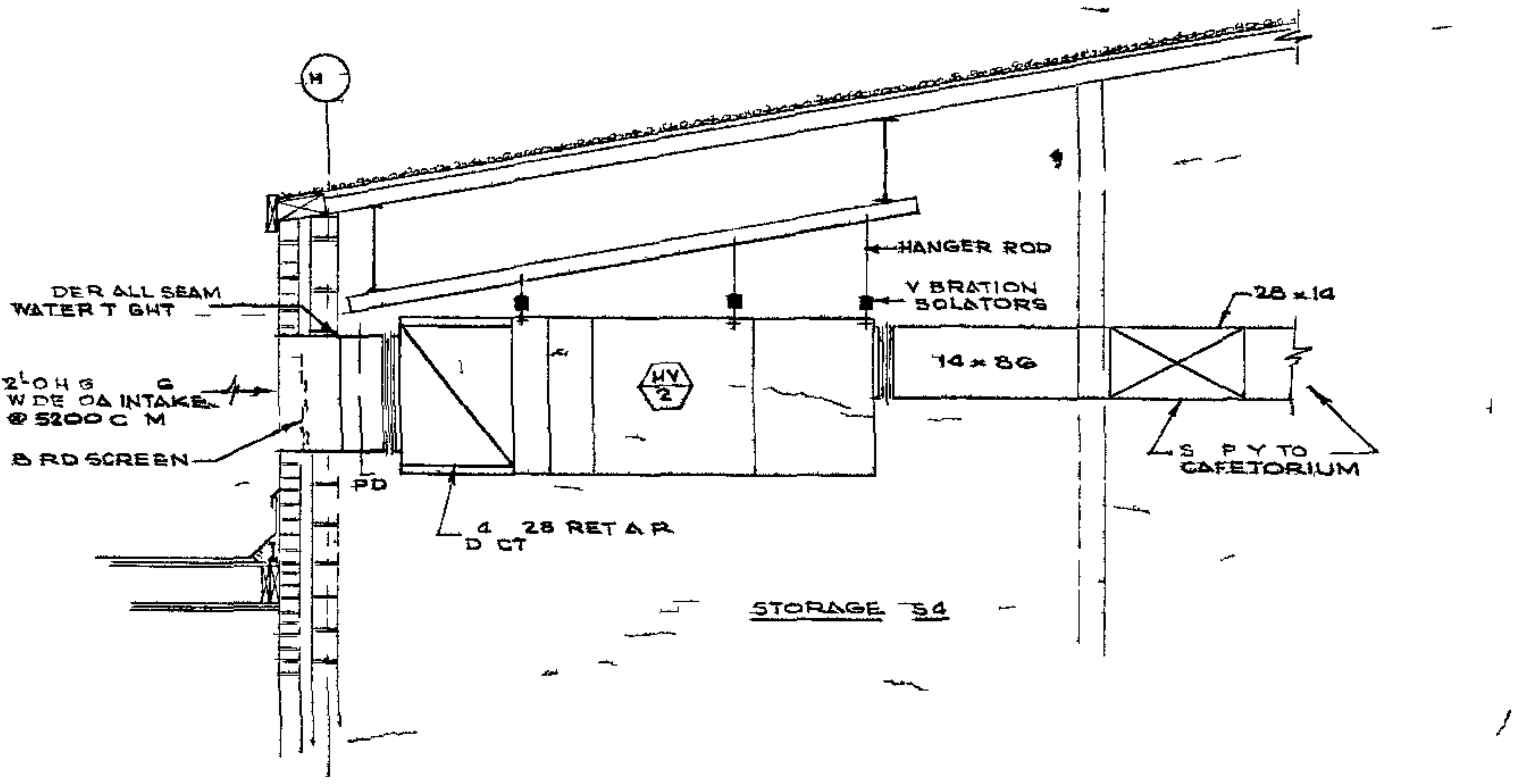
ISOMETRIC REAR VIEW OF UNIT VENTILATOR

SCALE NONE



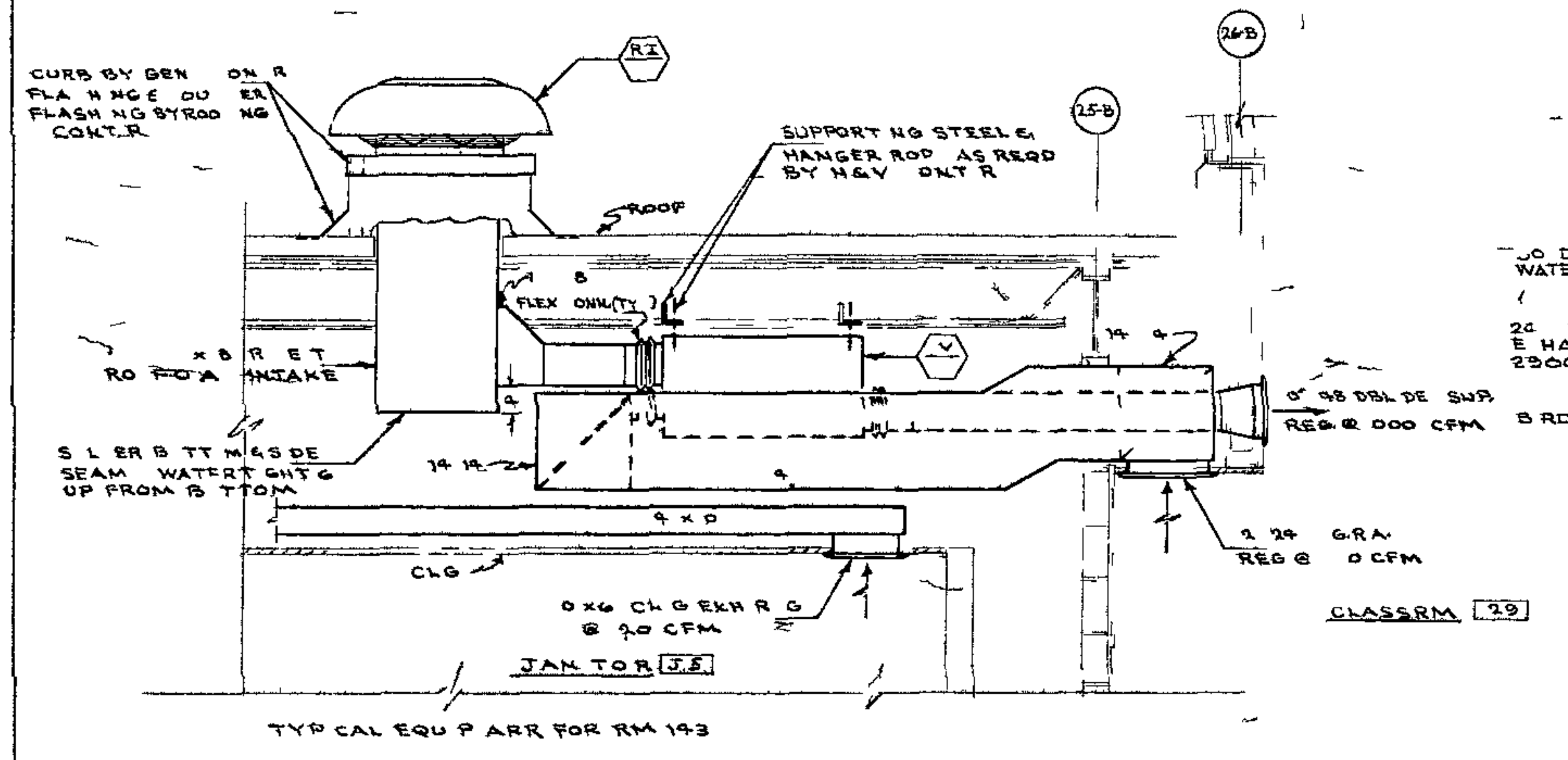
SECTION $\frac{DD}{H}$

SCALE ¼"=1'0



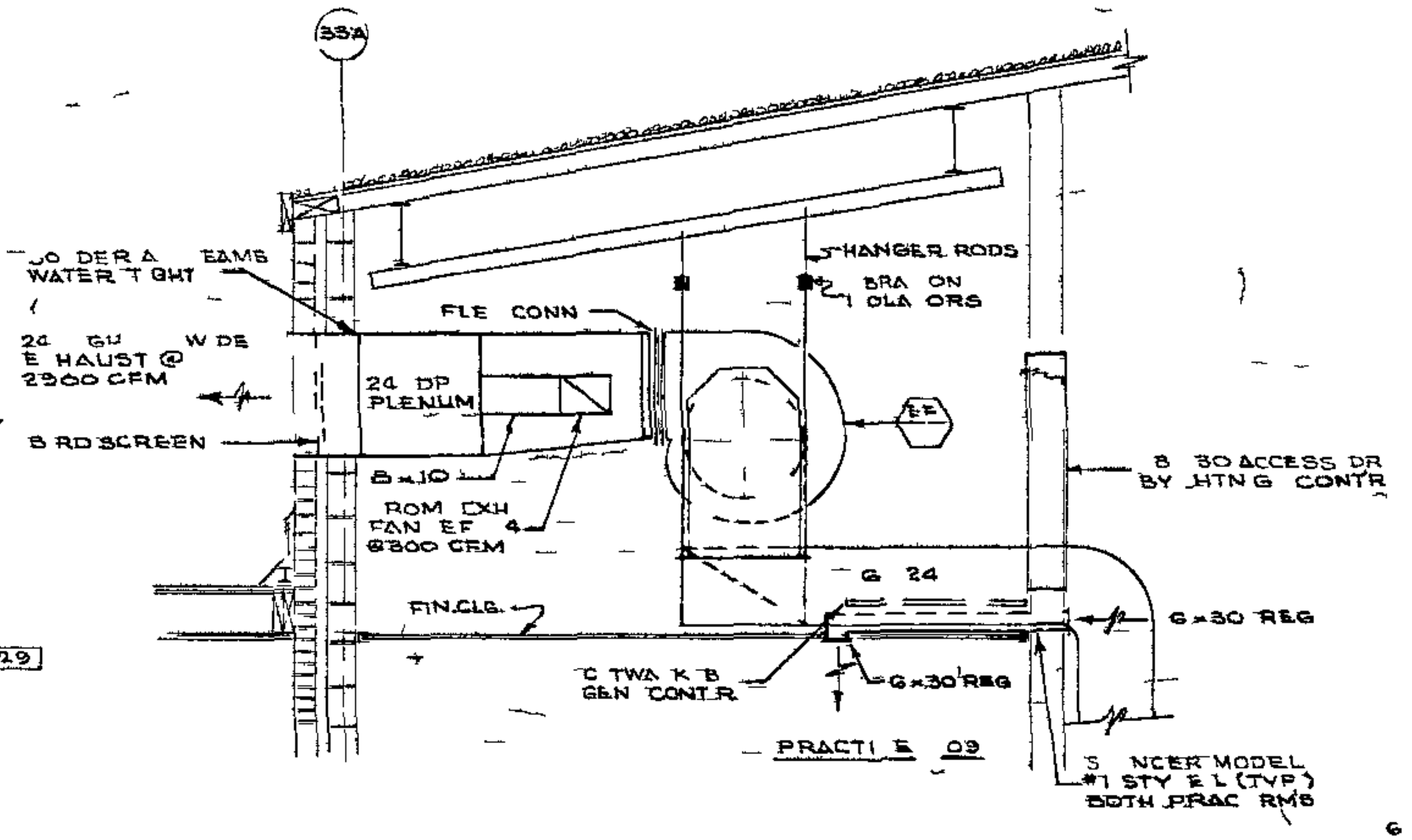
SECTION $\frac{EE}{1}$

SCALE ½" 1 0


CURB BY GEN CONTR FLASHING & COUNTER FLASHING BY ROOFING CONTR
RI
25-B
26-B
ROOF
SUPPORTING STEEL & HANGER ROD AS REQD BY H&V CONTR
FLEX CONN (TYP)
V
× 8 RET
ROOF OA INTAKE
SOLDER BOTTOM & SIDE SEAM WATERTIGHT 6 UP FROM BOTTOM
14 × 14
9" 48 DBL DEF SUP REG @ 000 CFM
4 × 8
2 24 GRA REG @ 0 CFM
CLG
10 × 6 CLG EXH REG @ 70 CFM
JANITOR 28
CLASSRM 29
TYPICAL EQUIP ARR FOR RM 143

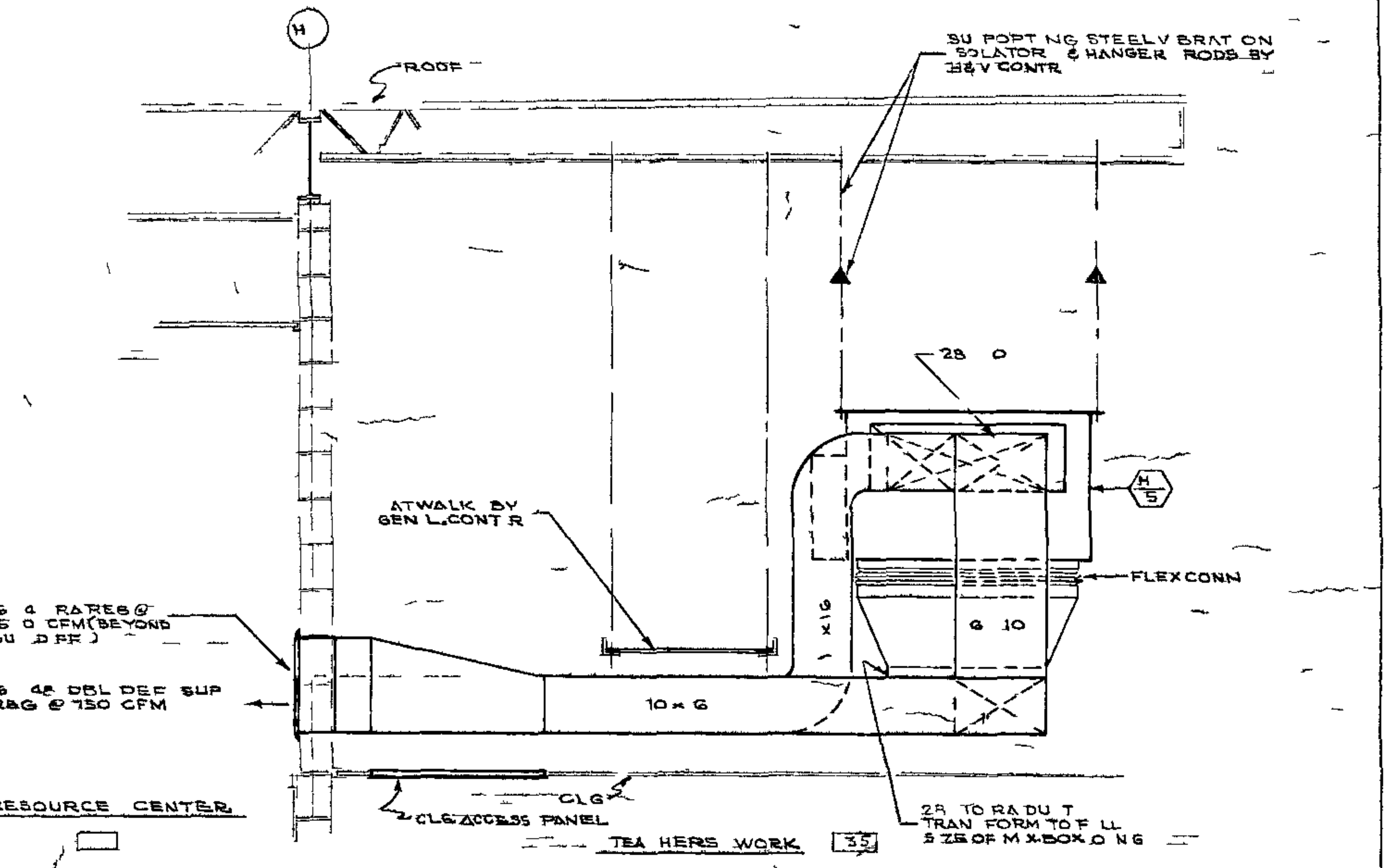
SECTION $\frac{G}{H-2}$

SCALE ⅜" =1'0


33A
SOLDER ALL SEAMS WATER TIGHT
HANGER RODS
VIBRATION ISOLATORS
FLEX CONN
24 EXHAUST 2 WIDE EXHAUST @ 2300 CFM
24 DP PLENUM
EE
BIRD SCREEN
8 × 10
ROOM EXH FAN EF 4 @ 300 CFM
8 30 ACCESS DR BY HTNG CONTR
FIN CLG
6 24
6 × 30 REG
CATWALK BY GEN CONTR
6 × 30 REG
PRACTICE 09
SINCER MODEL #1 STY EL (TYP) BOTH PRAC RMS

SECTION $\frac{F}{H1}$

SCALE ½ =1-0"


H
ROOF
SUPPORTING STEEL VIBRATION ISOLATOR & HANGER RODS BY H&V CONTR
28 0
H 5
CATWALK BY GEN CONTR
FLEX CONN
× 16
6 10
6 4 RA REG @ 0 CFM (BEYOND SU DIFF)
6 48 DBL DEF SUP REG @ 750 CFM
10 × 6
CLG
CLG ACCESS PANEL
RESOURCE CENTER
TEACHERS WORK 35
28 TO RADIUS T TRANSFORM TO FULL SIZE OF MIX-BOX OPENING

SECTION $\frac{HH}{H-2}$

SCALE ¾"-1'-0"

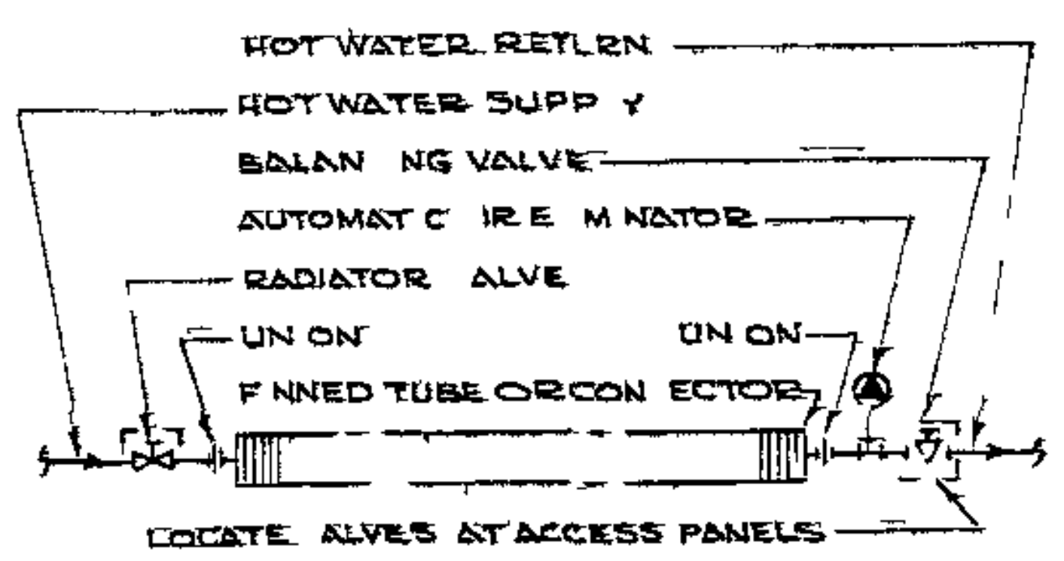
FRANK ASSOCIATES INC
CONSULTING ENGINEERS
MAR N M SS

STONER ASSOCIATES
ARCHITECTS
BOSTON MASS

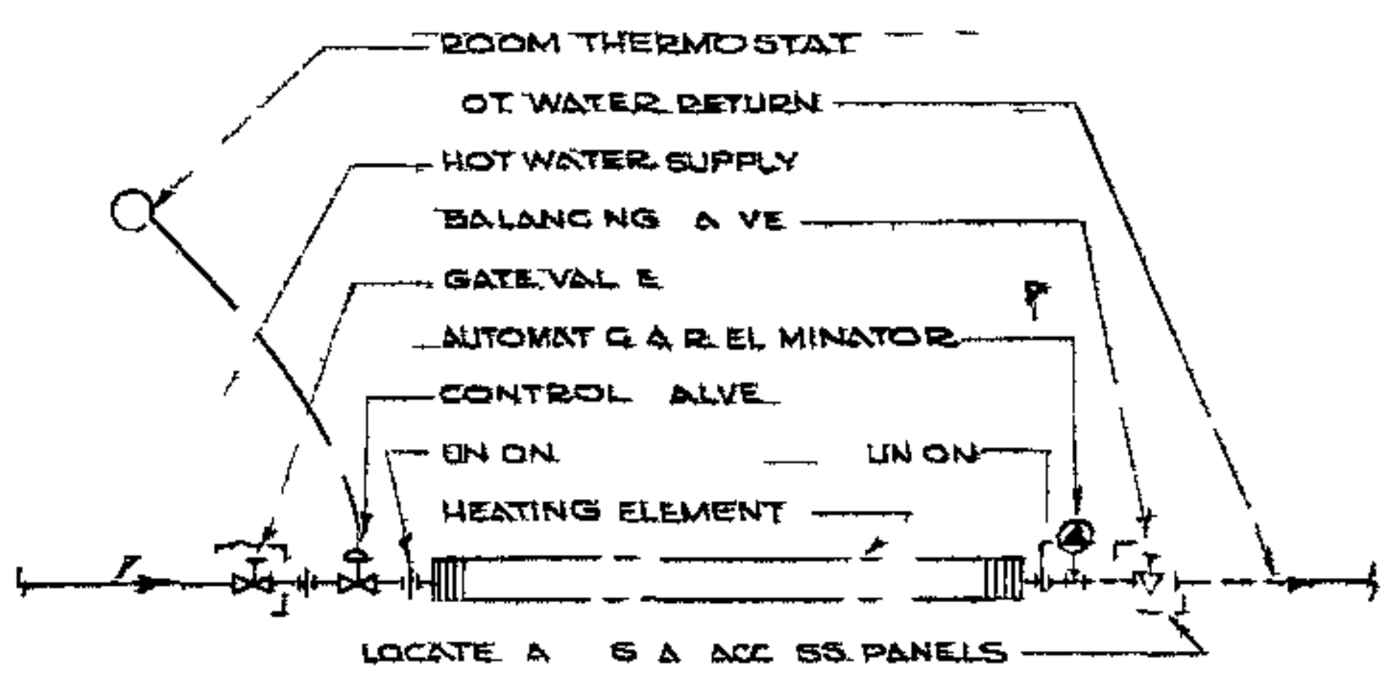
NEW ELEMENTRY SCHOOL
READING MASS

SECTIONS & DETAILS
HEATING

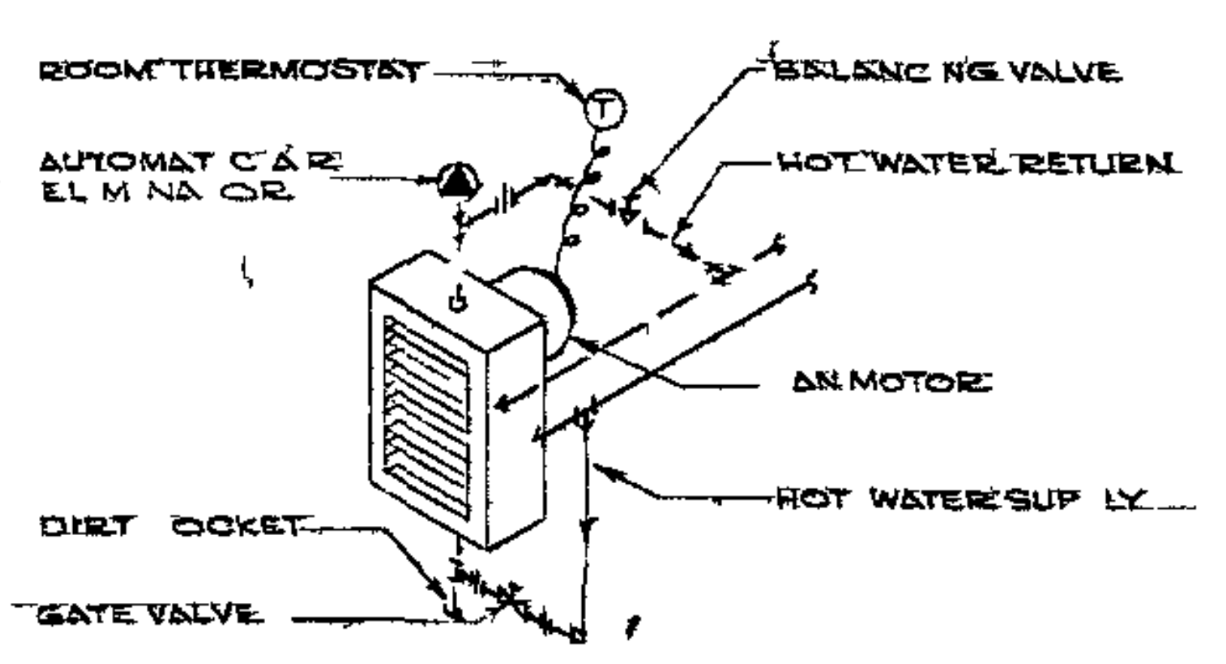
DRAWN WAJ
SCALE AS NOTED
CK RJB
DATE -68
DW NO H-4



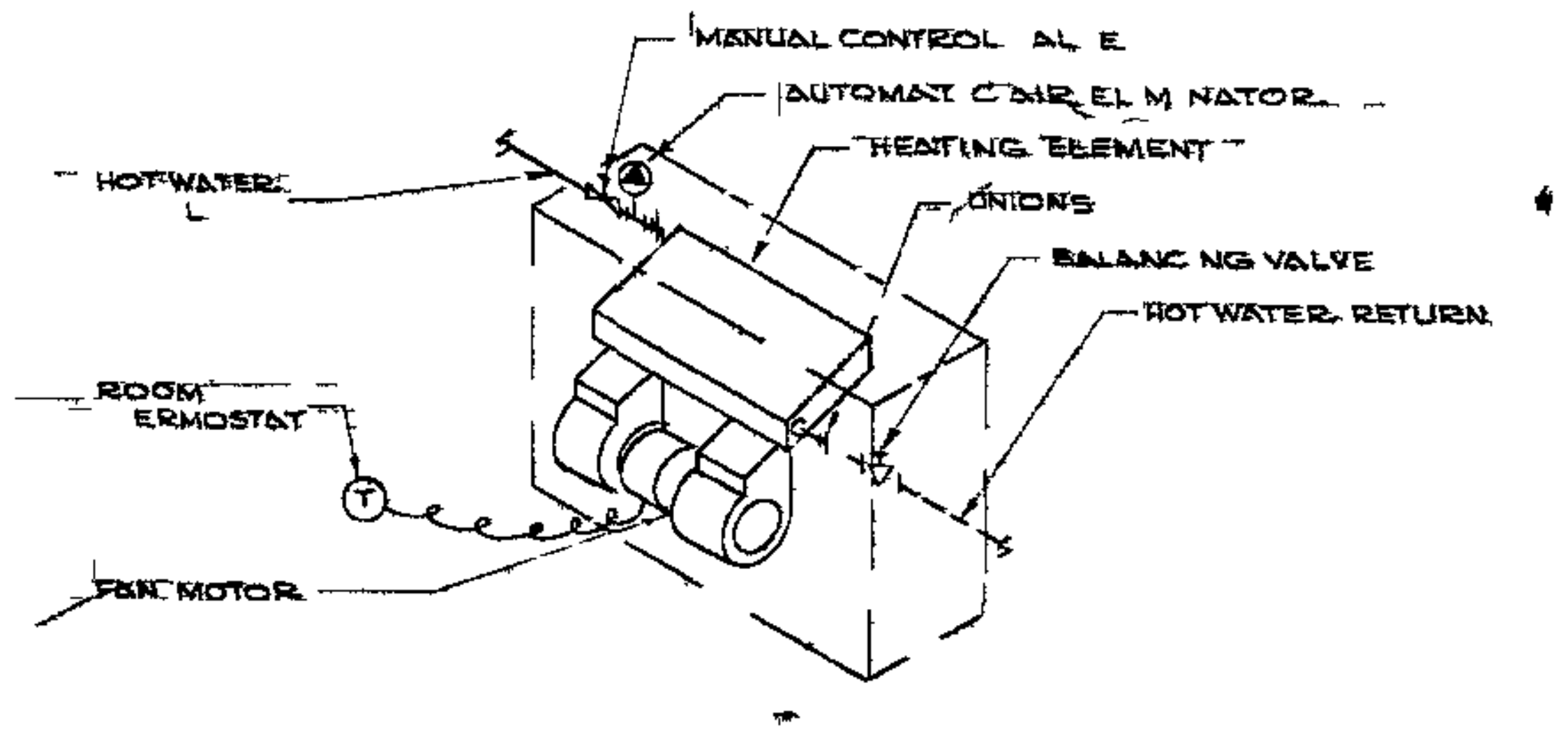
MANUALLY CONTROLLED RADIATION DETAIL
NO SCALE



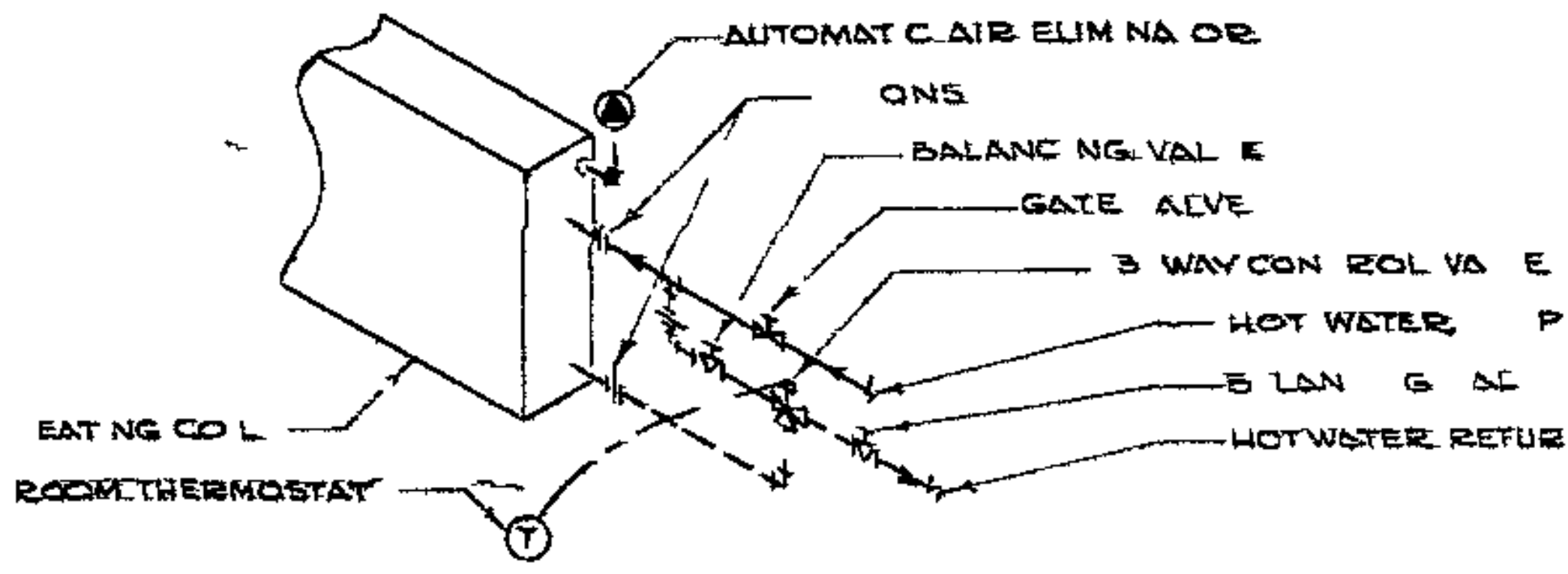
THERMOSTATICALLY CONTROLLED FINNED TUBE PIPING DETAIL
NO SCALE



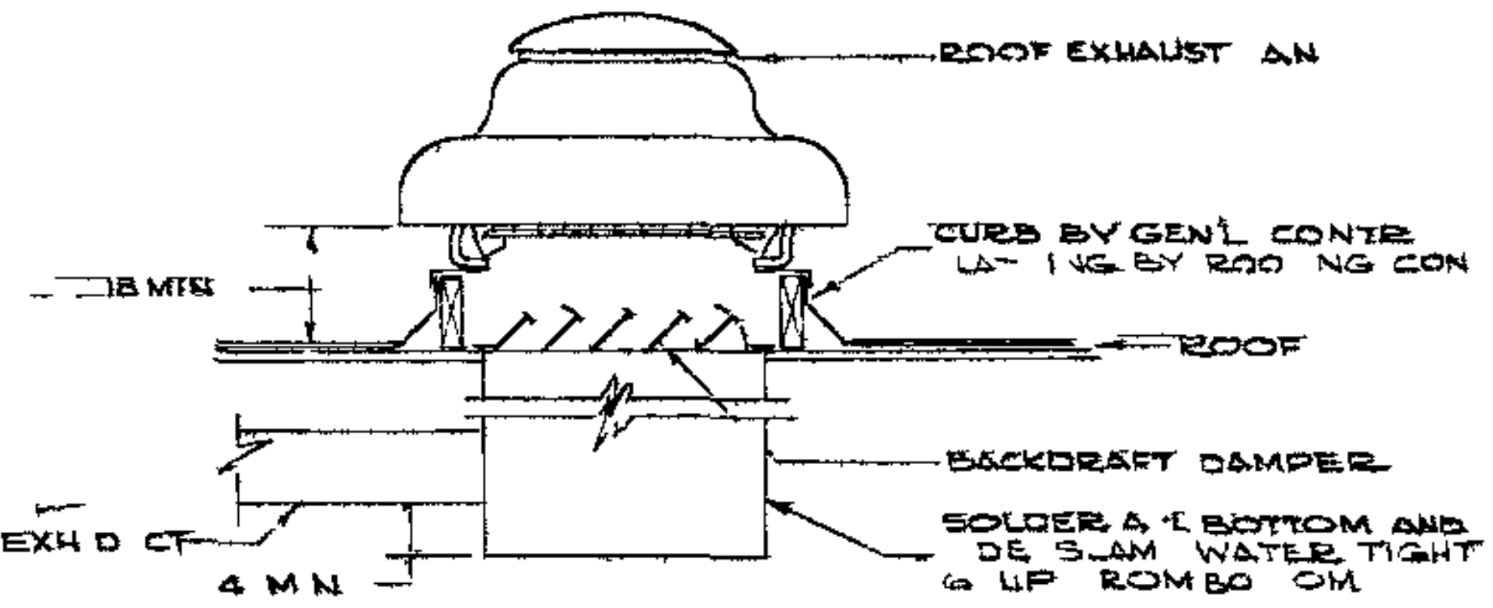
HORIZONTAL UNIT HEATER PIPING DETAIL
NO SCALE



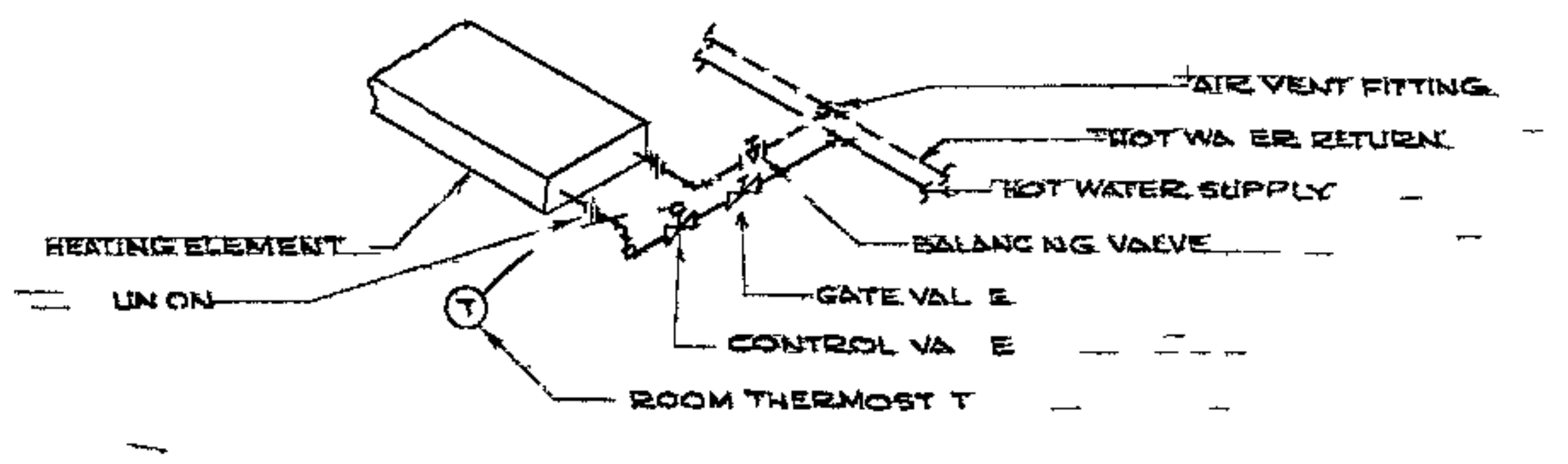
TYPICAL CABINET UNIT HEATER PIPING DETAIL
NO SCALE



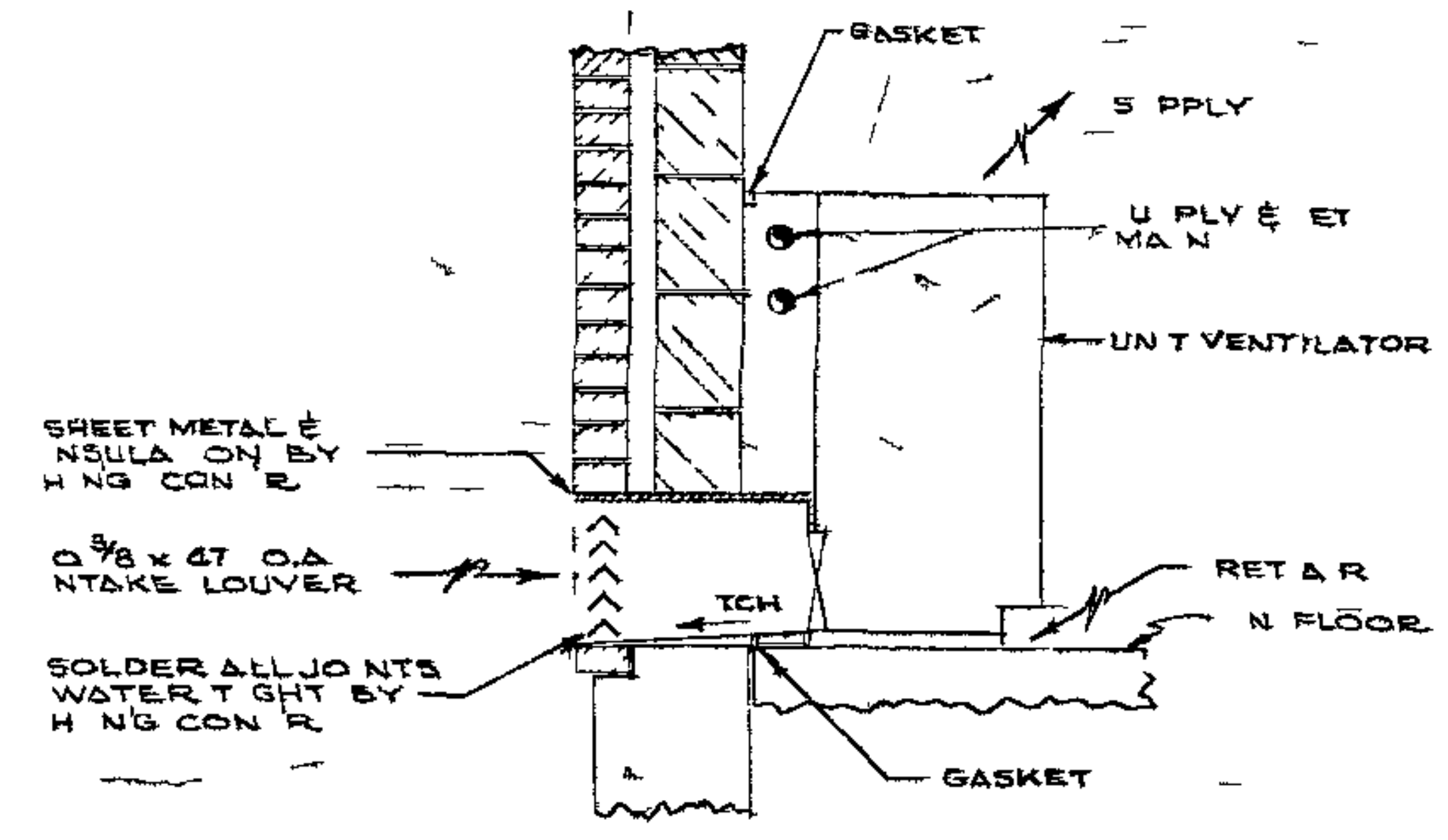
LARGE CAPACITY UNIT VENTILATOR PIPING DIAGRAM
NO SCALE


ROOF EXHAUST FAN
CURB BY GEN'L CONTR
FLASHING BY ROOFING CONTR
ROOF
18 MIN
BACKDRAFT DAMPER
SOLDER ALL BOTTOM AND SIDE SEAMS WATER TIGHT 6 UP FROM BOTTOM
EXH DUCT
4 MIN

TYPICAL ROOF EXHAUSTER DETAIL
NO SCALE



CLASSROOM UNIT VENTILATOR PIPING DETAIL
NO SCALE


GASKET
SUPPLY
SUPPLY & RET MAIN
UNIT VENTILATOR
SHEET METAL & INSULATION BY HTG CONTR
0 5/8 x 47 O.A. INTAKE LOUVER
TCH
RET AIR
N FLOOR
SOLDER ALL JOINTS WATER TIGHT BY HTG CONTR
GASKET

SECTION THRU UNIT VENT INTAKE
SCALE 1 1 0"

RADIATION SCHEDULE

ITEM	AREA SERVED	MFG'R	TYPE	MODEL	SIZE			NO. OF TIERS		MBH	GPM	AV.WTR TEM	TEMP DROP	CFM	EX. S.P.	MAX. RPM	MOTOR			MIN. O.A.	REMARKS
					LG H	H	HG	EM.	ENC.								H.P.	VOLTS	Φ		
	EAC ERS RM	HERMAN NELSON	CRUV	2000	50"	20"	30"	—	—	46	2.33	200°	40	00	—	00	/8	20		0/	R.MTD. AP BACK
CV 2	CLASSROOM	↓	↓	4000	2	20¼	0"	—	—	3 5	6	↓	↓	000	—	00	1/8	20	1	50%	↓
	K ERGAR EN	↓	↓	5000	83'	0/4	30'	—	—	168	58	↓	↓	1250	—	00	/8	20		50%	↓
CV	LOCKERS	↓	↓	2000	50"	30"	5"	—	—	467	2.33	↓	↓	500	22	000	/4	0		50	G CONC.W/ UCT COLLAR
C 5	CLASSROOMS	↓	↓	3000	6"	30'	5	—	—	38 4		↓	↓	750	2	000		20		50%	↓
C 6	CLASSROOMS	↓	↓	4000	2"	30"	5"	—	—	3.5	4.6	↓	↓	000	22	000	1/	120	1	50/	↓
V 1	GYMNASIUM	HERMAN NELSON	AUV	LYS 2500	82'	"	22½	—	—	26 0	0	200	40	2 50	/4	00	3/4	208	3	50%	HO Z W/M BOX
H 2	CAFETORIUM	↓	AUV	LYS 5500	76"	9	4½	—	—	40.0	25.0	↓	↓	5200		6	1/2	208	3	50%	HORI W/OUT BOX
3	KITCHEN	↓	H&V	# 2 00	70"	88'	28½	—	—	400.	20	↓	↓	4500	3/8	600	1	208	3	10 %	HORZ W/M X BOX
H	RESO ECTR	↓	A V	LYS 200	82"	6"	2/	—	—	8	4.	↓	↓	000	/	800	1/2	208	3	50 /	HORIZ.W/M X BOX
5	ESOURCE CTR	↓	AUV	YS 1700	86	48	25/	—	—	200.0	2.5	↓	↓	500	/8	730	/	208	3	50%	HORZ.W/M X BOX
HVG	BOILER RM	↓	H&V	# 2 00	57"	88	28½	—	—	—	—	—	—	6000	3/8	768	2	208	3	—	HORZ W/M X BO
	2,C5	HERMAN NELSON	CAB	RC 11 5020	4	3 4	26¾	—	—	25.0	2.5	80	20°	470	—	850	1/20	20		—	FULL REC.W/ FLANGE
CU 2	G 132 42	↓	↓	RW 5020	4	9¾	26 /4	—	—	25.0	2 5	↓	↓	470	—	850	/20	20	1	—	SEMI REC.G W/ LANGE
3	C5	↓	↓	RW 5020	47	¾	6¾	—	—	25.0	2.	↓	↓	470	—	850	1/20	120	1	—	F LL REC W/FLANGE
C 4	A9	↓	↓	RW 6020	58	9¾	26 4	—	—	33 0	3.3	↓	↓	575	—	850	/8	20	1	—	SEMI REC.G W FLANGE
CU 5	119	↓	↓	SF1 3020	36	9¾	25½	—	—	3 0	1 3	↓	↓	285	—	850	1/40	120	1	—	FLOOR M D
CUG	A9	↓	↓	SW 6020	58	9¾	26¾	—	—	33 0	3.3	↓	↓	75	—	850	/8	120	1		WALL HUNG
C	6,53 35, 20 12,27	HERMAN NELSON	CONV	W	28	6	20	—	—	3.	4	80°	20°	—	—	—	—	—	—	—	WALL HUNG
C 2	T17, T16 6,	↓	↓	W	2		8	—	—	9	2	↓	↓	—	—	—	—	—	—	—	↓
C 3	A A3 A7	↓	↓	W	28	4	20	—	—	2 4	2	↓	↓	—	—	—	—	—	—	—	↓
C 4	K3 J2 58	↓	↓	W	28	8	26	—	—	5.0	5	↓	↓	—	—	—	—	—	—	—	↓
C 5	4 58	↓	↓	W	36	8	26	—	—	6 8	7	↓	↓	—	—	—	—	—	—	—	↓
C 6	A5	↓	↓	RG	36	6	26	—	—	5 7	6	↓	↓	—	—	—	—	—	—	—	FULL REC
C 7	5 J3	↓	↓	W	0	0	2	—	—	9 6	1.0	↓	↓	—	—	—	—	—	—	—	WALL HUNG
FT 1	2 C3	HERMAN NELSON	FIN TUBE	Q	4 0	/4	¼		—	3.6	4	80	20°	—	—	—	—	—	—	—	900 BTU/ NO ENC
FT 2	2 C3 A9	↓	↓	Q	0"	5¼	4		—	9 0	9	↓	↓	—	—	—	—	—	—	—	0 BTU/FT NO ENCL
FT 3	104, 08, 9	↓	↓	Q	0"	5¼	24	1	3	9 8	0	↓	↓	—	—	—	—	—	—	—	00 0/FT NV E CL
FT 4	09, 0	↓	↓	Q	4 0"	5/4	24	1	3	5.4	5	↓	↓	—	—	—	—	—	—	—	73 U/FT W/ ENCL
FT 5	A 6	↓	↓	Q	0 0	5¼	24		3	4	1 6	↓	↓	—	—	—	—	—	—	—	1 42 BTU/FT W/ ENCL
FT 6	A4	↓	↓	Q	2' 0	5¼	4	1	3	2	2.2	↓	↓	—	—	—	—	—	—	—	842 BTU/FT W/ ENCL
	CLASSROOMS	↓	↓	Q	8' "	5¼	4		2	9 6	1 0	↓	↓	—	—	—	—	—	—	—	1200 /FT W/ ENC
FT 8	LASSROOMS	↓	↓	Q	0 0"	5 /4	4		2	2 0	2	↓	↓	—	—	—	—	—	—	—	200 BTU/FT W/ ENCL
FT 9	CLASSROOMS	↓	↓	Q	12 0	5 ¼	4		2	1 4		↓	↓	—	—	—	—	—	—	—	1200 BTU/FT W/ENCL
UH	STORAGE	↓	HORZ.	HU 0 0	—	—	—	—	—	3 2	1 3	—	—	255	—	050	1/	20		—	

RU – CLASSROOM UNIT VENTILATOR
AUV – AUDITORIUM UNIT VENTILATOR
H&V – HEATING & VENTILATING UNIT
CAB – CABINET UNIT HEATER
CONV – CONVECTOR
FIN – FIN TUBE RADIATION

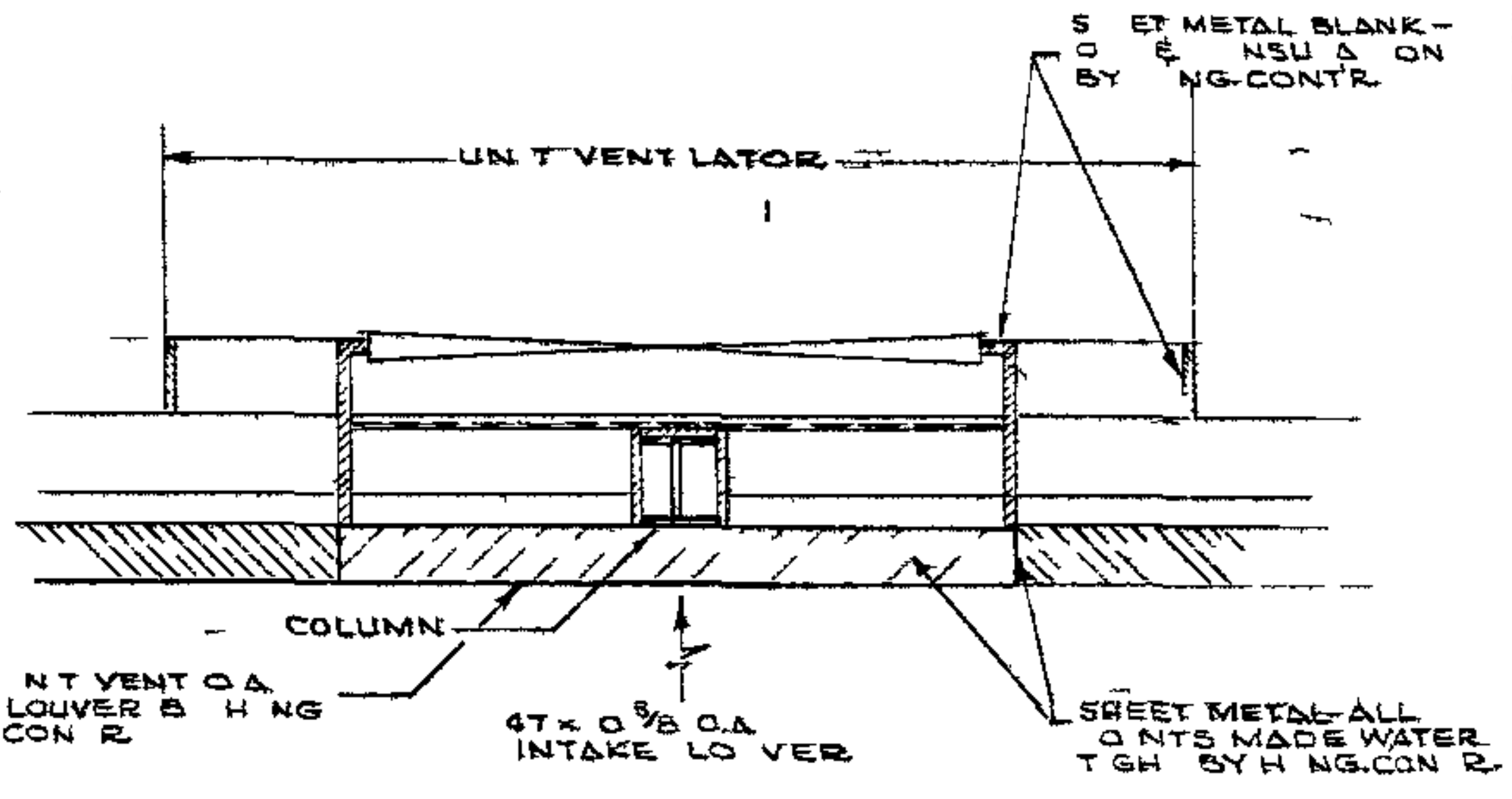
PUMP SCHEDULE

ITEM	SERVICE	GPM	HEAD	H.P.	VOLTS	Φ	MFG'R	MODEL	REMARKS
P 1	PART "A"	56	59	5	2 8	3	B&G	U2B	BASE MTD UNIVERSAL
P 2	STAND BY	65	70	7½	208	3	B&G	U2½ B	↓
P 3	PART "B"	165	70	7½	208	3	B&G	U2 /2 B	↓

EXHAUST FAN & RELIEF VENT SCHEDULE

ITEM	SERVICE	MFG'R	TYPE	SIZE	FAN DATA				MOTOR			MIN. CURB OPENING	REMARKS
					CFM	S.P.	RPM	T.S.	H.P.	VOLTS	Φ		
E	STORAG	J AR	ROO	82 BC	8?0/900	/4	79/775	4	/4	20	1	4 x 4	BELT DRIVE W/BD *
EF 2	TOILET	↓	↓	80 CR	0	¼	550	—	1/5	20		8 x 8	DIRECT DRIVE W/BD
EF	TOILET	↓	↓	9 CR	5 0	/4	1 4	—	/8	20		12 x 2	RECT DR VE W/BD
E 4	GYM	↓	↓	242 R	30	½	465	00	1/3	0		20 x 20	B LT DRIVE W/BD
E	O CE	↓	↓	0 CR	200	¼	00	—	1/25	20	1	8 x 8	RECT DR VE W/BD
E 6	TOILET	↓	↓	70 CR	80	/4	500	—	1/25	20		8 8	D RECT RVE W/BD
E	EN	↓	↓	142 BCR	600	3/8	75	3000	/4	120	1	2 x 2	BELT DR VE W/BD
EF 8	O LET	↓	↓	08 CR	180	/8	860	—	/	20		12 2	DIRECT DR VE W/BD
E	TEA RS RM	COOK	INLINE	C 8 0	250	/8	1750	—	½ 2	20		—	D RECT DR VE W/B
EF	TOILET	JENNAIR	ROOF	142 CR	650	3/8	775	000	/4	120		2 x 12	B T DRIVE W/B
F 1	CLASSRM	↓	↓	182 BCR	6?/1560	3/8	55/795	000	/4	120		14 x 14	BELT DRIVE W/BD *
E 2	TOILET	↓	↓	98 CR	240	¼	86	—	1/12	20	1	12 x 12	D RECT DRIVE W/BD
E 3	CAFE	ILG	C TR	2J A CC	2600	3/8	66	—	1/5	120	1	—	BELT DRIVE W/BD
	PRAC.RM.	ILG	C N R	B 2	300	¼	1 90	—	1/12	120	1	—	BELT DRIVE W/BD
EF-	CLASS RM	JENNAIR	ROOF	301 BCR	1800/3600	3/8	405/4 5	3300	½	208	3	26 x 26	B T DRIVE W/BD *
EF 6	CLASSRM	↓	↓	30 BCR	/3600	/8	05/455	3300	/	208	3	26 x 26	BELT DRIVE W/BD *
7	TOILET	↓	↓	142 BCR	720	3/8	880	3400	¼	20	1	2 x 12	BELT DRIVE W/BD
8	TOILET	↓	↓	98 CR	240	¼	860	—	/ 2	120	1	2 x 12	D RECT DR E W/BD
9	CLASSRM	↓	↓	BCR	660/1560	/4	530/935	4000	1/4	20		4 14	BEL DR VE W/BD *
E 2	TOILETS	↓	↓	98 CR	240	/4	860	—	½	20		12 12	D RECT DR VE W/BD
EF 21	EACH RM	ILG	NTR F	2 A	5	3/8	6 2	—	/6	20	1	—	BELT DR VE W/BD
22	CLASS RM	J NNA R	ROO	1 5 R	35/580	¼	680/365	360	¼	20	1	2 x 2	BELT DRI E W/BD *
EF 23	TOILET	↓	↓	98 CR	240	/4	86	—	/2	20	1	12 x 12	D RECT DR VE W/BD
E -24	CLASS RM	↓	↓	3 R	1800/3600	3/8	405/455	3300	½	208	3	26 x 26	BELT DR VE W/BD *
-25	TOILET	↓	↓	25 R	0	3/8	880	3400	¼	20		12 x 12	BELT DRIVE W/BD
E 26	CLAS RM	↓	↓	301 BCR	1800/3600	/8	405/455	3300	½	208	3	26 x 26	BELT DRIVE W/BD *
E -27	CLASSRM	↓	↓	182 BCR	/680	/4	70/795	380	/4	20		14 x 4	BELT DR VE W/BD *
EF-28	OFFICE	ILG	CENTRIF	BCA AC	50	3/8	986	—	/6	120	1	—	BELT DR VE W/BD
EF 29	TOILET	J NAR	ROOF	08 CR	3 0	¼	860	—	1/6	120		12 x 12	D RECT DRIVE W/BD
F3	CLASSRM	J NNAR	ROO	82 BCR	80/1580	¼	70/775	3800	/4	20	1	14 x 14	BELT DR VE W/BD *
3	KITCHEN	COOK	INLINE	20 VBB	00	/2	1011	—	1½	208	3	—	BELT DRIVE W/BD
EF 32	KITCHEN	COOK	INLINE	20 3	000	3/8	605	—	¼	20	1	—	BELT DR E W/BD
EF 33	CLASS RM	JENNAIR	ROO	8 B	660/1560	¼	3 9/695	4000	/4	120	1	4 14	BELT DRI E W/BD *
EF 4	CLASS RM	JENNAIR	ROO	142 BCR	35/55	¼	680/995	360	¼	20	1	2 x 12	BELT DR E W/BD *
RI 1	CLASS RMS	JENNAIR	ROO	RV 81		.0	—	—	—	—	—	18 x 8	
RI 2	EC.RM	JENNAIR	ROO	RV 2	5	.0 2	—	—	—	—	—	4 x 4	
RI-3	E EC.RM.	JENNAIR	ROOF	RV 21	520	.0 2	—	—	—	—	—	14 4	

*– INDICATES FANS TO HAVE 2 SPEED MOTORS
BD INDICATES FANS TO HAVE BACK DRAFT DAMPER


SHEET METAL BLANK-OFF & INSULATION BY HTG CONTR
UNIT VENTILATOR
COLUMN
UNIT VENT O.A. LOUVER BY HTG CONTR
47 x 0 5/8 O.A INTAKE LOUVER
SHEET METAL-ALL JOINTS MADE WATER TIGHT BY HTG CONTR

PLAN UNIT VENTILATOR INTAKE
SCALE 1 1-0

CLASSROOM STORAGE CABINET SCHEDULE

ITEM	MFG'R	CABINET SIZE			REMARKS
		LGTH	DPTH	HGTH	
A 1	HERMAN NELSON	24	20¼	30	O N A USTAB SHEL
A 2	↓	36	20¼	3	↓
A 3	↓	48	2 ¼	30	↓
B	↓	48	20¼	3	10 TRAY CABINET
C	↓	48	20¼	30	20 TRAY CABINET
D	↓	VARIES	2 ¼	30	FILLER SECTIONS

NOTE ALL CLASSROOM STORAGE CABINETS SHALL BE FURNISHED WITH FULL BACKPLATE TO FACILITATE PIPE HANGING

CHARLES CROWLEY JR.
43

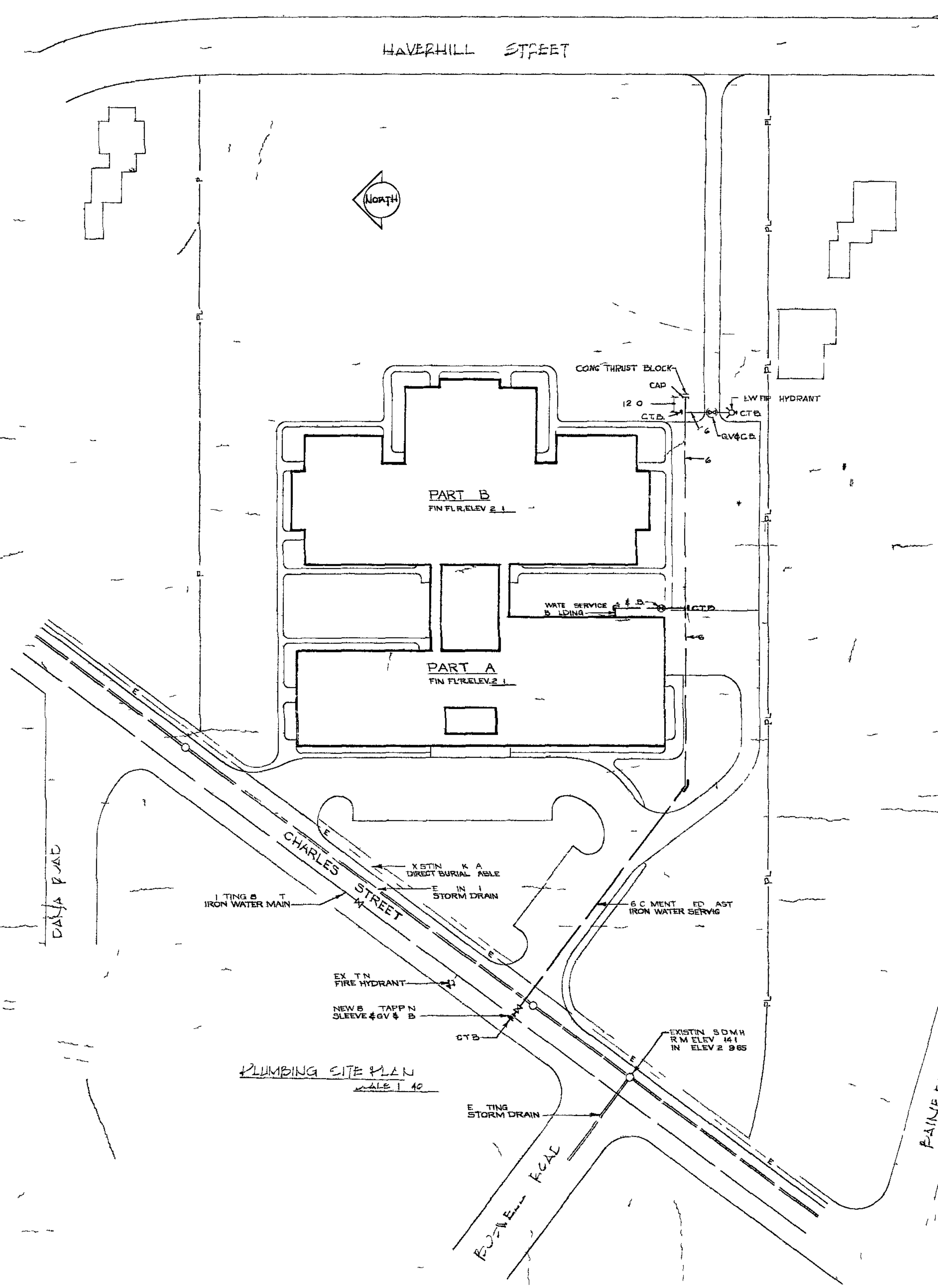
FRANCIS ASSOCIATES, INC.
CONSULTING ENGINEERS
MARI SQ

STONER ASSOCIATES
ARCHITECTS

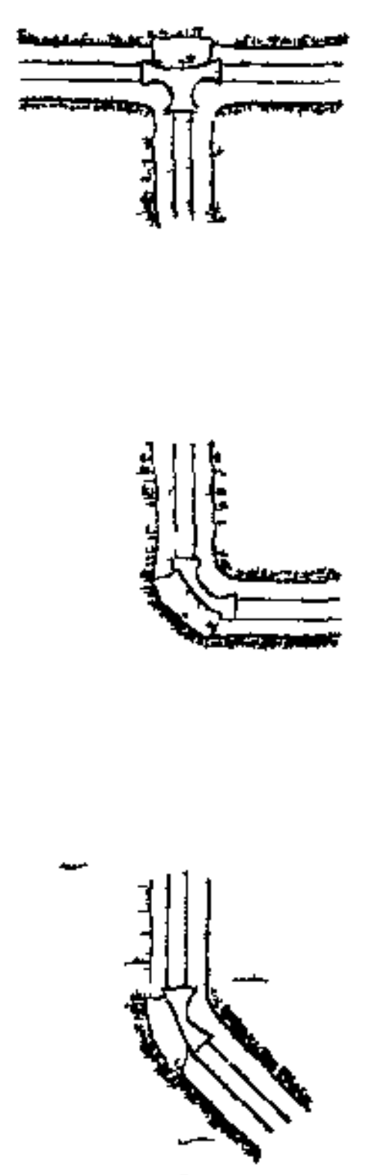
NEW ELEMENTRY SCHOOL
READING MASS

SCHEDULE & DETAILS
HEATING

DRAWN WAJ
CHECKED R B
JOB NO
DATE 2-15
W O
H-5



PLUMBING SITE PLAN
SCALE 1 40



S ZE	M N BEAR NG AREA
6	4 SQ FT

E	M BEA AREA
6	3/2 SQ FT

	M N BEAR AR A
6	3 SQ FT

DETAIL THRUST BLOCKS
NO SCALE

LEGEND

S/W	SOIL & OR WASTE
S/W.	SOIL & OR WASTE (UNDERGROUND)
RL/SD	RAIN LEADER & OR STORM DRAIN
RL/SD.	RL/SD (UNDERGROUND)
V	VENT
V	VENT (UNDER FLOOR)
C.W	COLD WATER
H W	HOT WATER
HWR.	HOT WATER RECIRCULATING
G	GAS
	GATE VALVE
	CHECK VALVE
	GAS COCK
	STOP & WASTE VALVE
	BALANCING VALVE
	VALVE IN VERTICAL
	STRAINER
SA	SHOCK ABSORBER
HB/WH	HOSE BIBB OR WALL HYDRANT
	RISER UP
	DROP DOWN
	TEE DOWN
	UNION
C.O.	CLEANOUT
F.C.O.	FLUSH FLOOR CLEANOUT
DCO	DANDY CLEANOUT
FD	FLOOR DRAIN
	TRAP
MH/CB	MAN HOLE OR CATCH BASIN
BH	BOX HYDRANT
F.H.	FIRE HYDRANT
GV&CB	GATE VALVE & CURB BOX
(A.C.)	ABOVE CEILING
(U.C.)	UNDER COUNTER
CTB	CONCRETE THRUST BLOCK
S/B.	SHALL BE
P L	PROPERTY LINE
DS.	DOWNSPOUT

PIPE SIZE TO FIXTURE SCHEDULE

FIXTURE	P NO	S/W	VENT	CW	HW
WATER CLOSET	P1	4"	2	3/4	—
URINAL	P 2	2	2"	1	—
LAVATORY	P 3	1 /2"	1 /2"	1/2	/2
LAVATORY (CHILD)	P 4	1 1/2"	1 1/2"	1/2	1/2
FIRST AID LAVATORY	P-5	1 /2"	1 /2	1/2	/2
MOP RECEPTOR	P 6	3	2"	1/2"	1/2
DRINKING FOUNTAIN	P 7	1 /2"	1 /2"	/2	—
DR NK. FOUNT. CUSPIDOR	P-8	1 /2"	1 /2	1/2	—
CLASSROOM SINK	P 9	2"	2	/2	/2
WORK ROOM SINK	P 10	2	2	1/2	1/2
ELECTRIC WATER COOLER	P 11	1 /2"	1 /2"	/2"	—
KITCHENETTE UNIT	P 12	2"	2"	1/2"	1/2

GENERAL NOTES

1 UNLESS SPEC FICALLY NOTED OTHERWISE ON THE PLANS LL SOIL WASTE & STORM DRAINAGE PIPING SHALL BE RUN UNDER FLOOR SHOWN

2. UNLESS SPECIFICALLY NOTED OTH RWISE O THE PLA NS ALL COLD WATER, HOT WATER & HOT WATER RETURN PIPING VENT & GAS PIPING S/B RUN ABOVE CEILING OF FLOOR SHOWN

3 JOSAM MANUFACTUR NG CO COMB NED CARRIER & DR NAGE FITTINGS CATALOG MBERS ARE USED THRUOUT TO INDICATE SIZE, TYPE & DE SIG N OF WATER CLOSET CARRI RS REQUIRED O LY EQ AL C RRIER FITTINGS AS MANUFACTURED BY BLAKE ZURN OR SMITH MAY BE USED THE PLUMBING CONTRACTOR S ALL RETA N THE OPT ON OF USING LONG BARREL FITTINGS WHEREVER DEEMED PRACTICAL

4 L ATI NS OF EXISTIN NDERGROUND UTI ITIE RE PPROXIMATE ON Y VER FY LO ATION PRIOR TO COMMEN EMENT OF CONSTRUCTION

5. ALL ON RETE THR T BLOCKS SH L BE FURNISHED & I TALLED B THE GE ERAL C NTRA TOR UNDER THE SUPERVISION OF THE PLUMBIN NTRACTOR EXTREM R SHALL BE EXERCISED IN TH PO R NG OF THE CONCRETE TO PREVENT T E MIX FROM RUNN G NTO THE PIPE JO NTS S U D ANY J NTS B FOUND TO H VE DRY N RE E MIX IN THEM THEY SHALL BE REMOVED & REPLACED

6 TH LO ATIONS OF ROO DRAIN & DOWNSPOUTS SHOWN ON THE P UMB NG D WIN RE APPRO IM TE ON Y R EXA T LO ATIONS REFER TO TH AR HITECTURAL DRAWIN

7 PL MBING CONTRACTOR SHALL FURNISH & NSTALL CAST IRON SHOES EXT ND NG 18 ABOVE F NISH GRADE TO R C VE DOW NSPOUTS OF S E INDICATED ON THE DRAWINGS DOWNSPOU S S/B FUR N SHED & INSTALLED UNDER ANOTHER SECTION OF THE SPECIF CATIONS

Wiliam

STONER ASSOCIATES
ARCHITECTS
BOSTO MASS

NEW ELEMENTARY SCHOOL
READING MASS

SITE & UTILITIES PLAN

P1

JOB NO 20427
DRAWN NC
CHECKED WD
SCALE 1 40 0
DATE

STONER ASSOCIATES
ARCHITECTS
TON, MA

NEW ELEMENTARY SCHOOL
READING MASS

PART A FLOOR PLAN
PLUMBING

DRAWN BY
CHKD BY
SCALE 1/8" 1'
2156

P-2

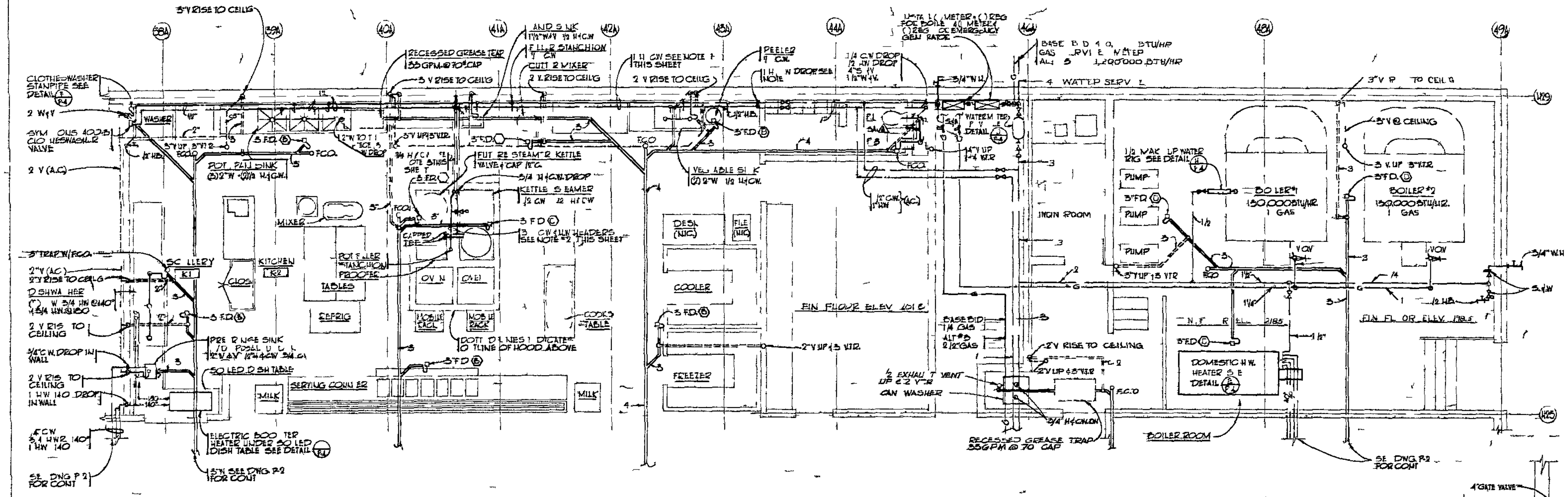
STONER ASSOCIATES
ARCHITECTS
B O MA

NEW ELEMENTARY SCHOOL
READING MASS

PART B FLOOR PLAN
PLUMBING

JOB NO	DRAWN BY K.W.G.	SCALE	P-3
	CKD BY W.B.J.	DATE 2-15-68	

ASSOC TE
ENGINEERS
MARION MASS



KITCHEN & BOILER ROOM PLAN PLUMBING

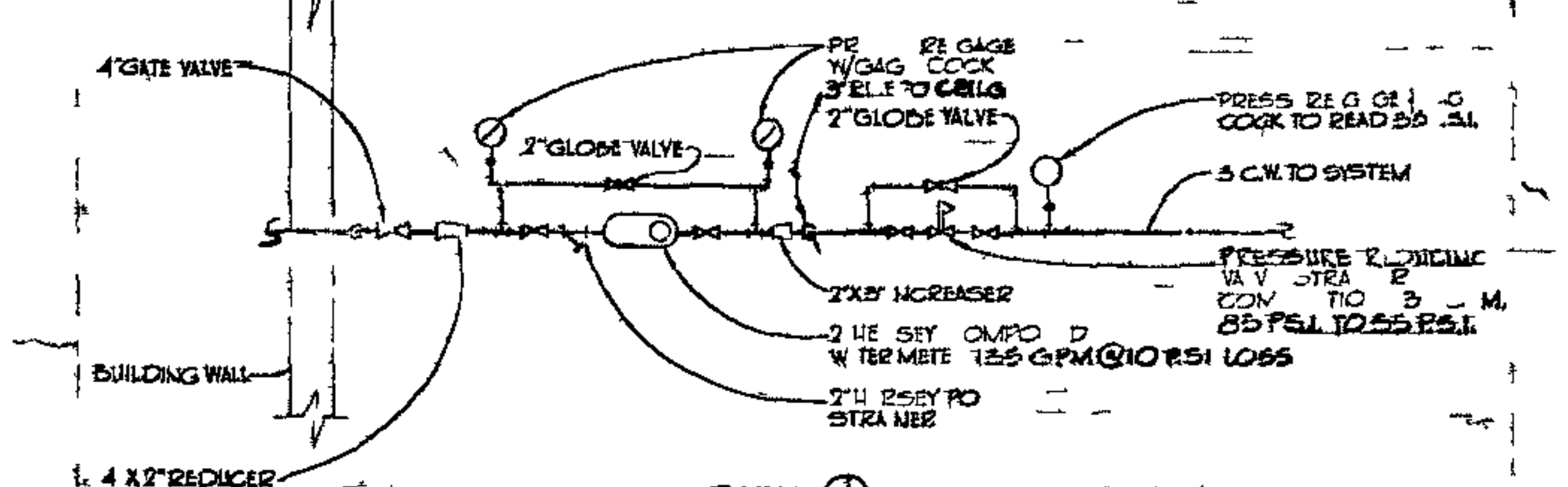
SCALE 1/4 1 0

KITCHEN PLUMBING NOTES

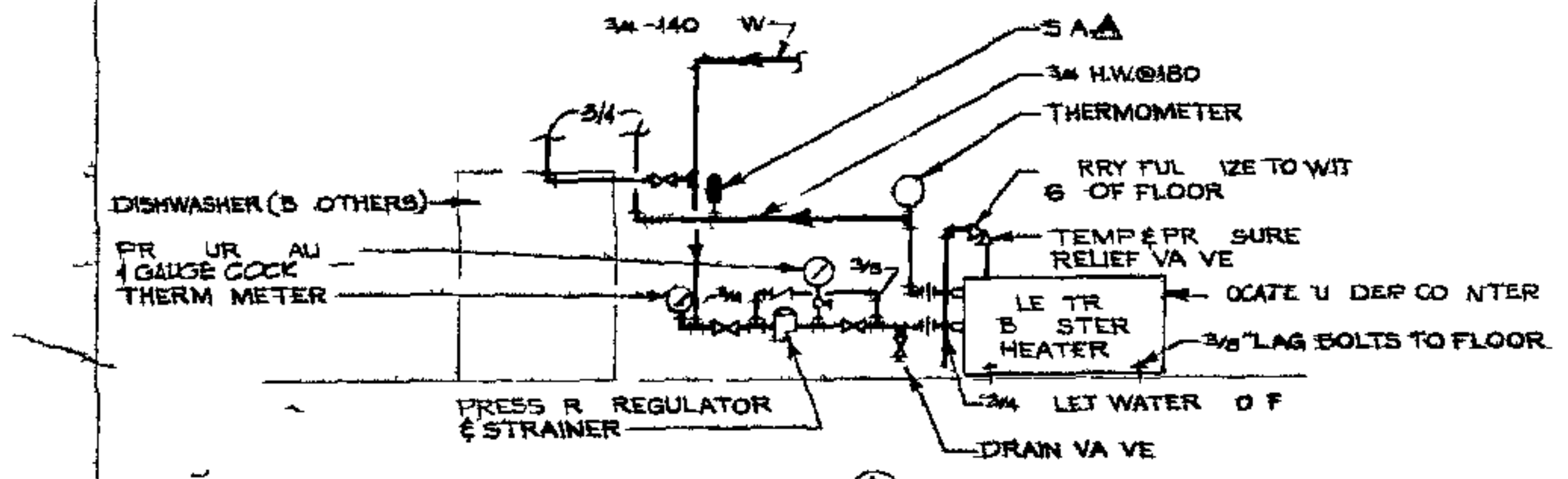
1. DROP 1 H & CW ON FACE OF WALL TO APPROX 18 ABOVE FLOOR & RUN HORIZONTALLY BEHIND EQUIPMENT RACKED FIRMLY SECURED TO WALL. INSULATE WITH 3/4 FIBERGLASS JACKETED AS SPECIFIED. INSTALL OV R EACH PIPE A #22 GA 18-8 TYPE 302 STAINL SS STEEL PROTECTIVE SHIELD FASTENED WITH METAL SCREWS 6 O.C. LOCATED ON BOTTOM OR REAR OUT OF IMMEDIATE VIEW INCLUDING COVERING ON DROP FROM CEILING. ALL RISERS TO EQUIPMENT TO B CHROME PLATED 1/2 I.P.S. BRASS SCHEDULE 40 TO HAVE C.P. STOPS.

2. ALL EXPOSED PIPING IN THE CENTER COOKING ISLAND INCLUDING VALVES TO BE CHROME PLATED. WATER PIPING SHALL BE CHROME PLATED SCHEDULE 40 RED BRASS I.P.S. PIPE WITH CHROME PLATED FITTINGS

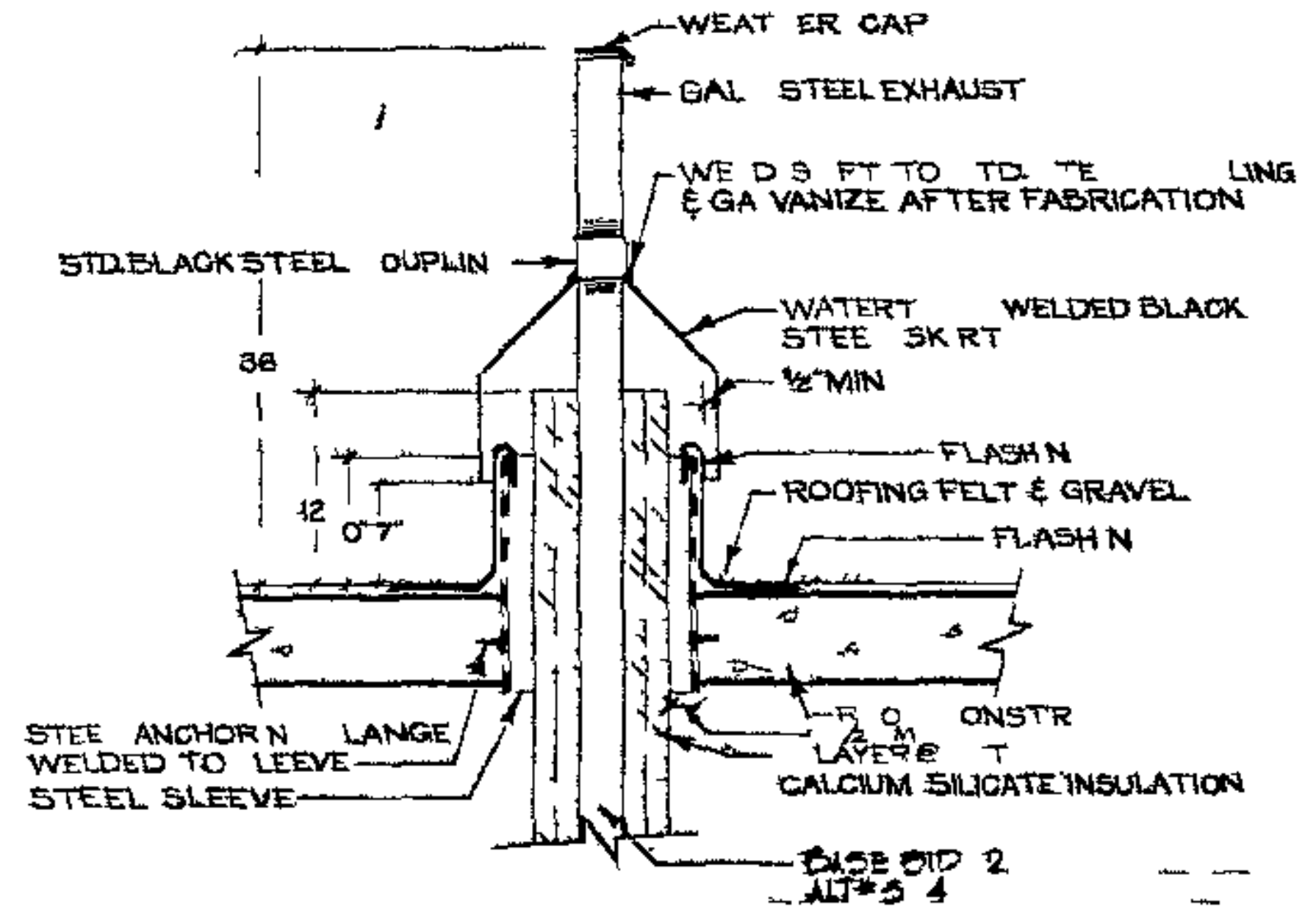
3. RUN 3/4 TYPE "K" SOFT TEMPERED COPPER TUBING UNDER SLAB IN 6" ASBESTOS CEMENT SLEEVE. COVER PIPING WITH 3/4 THICK ARMSTRONG ARMAFLEX INSULATION OR EQUAL.



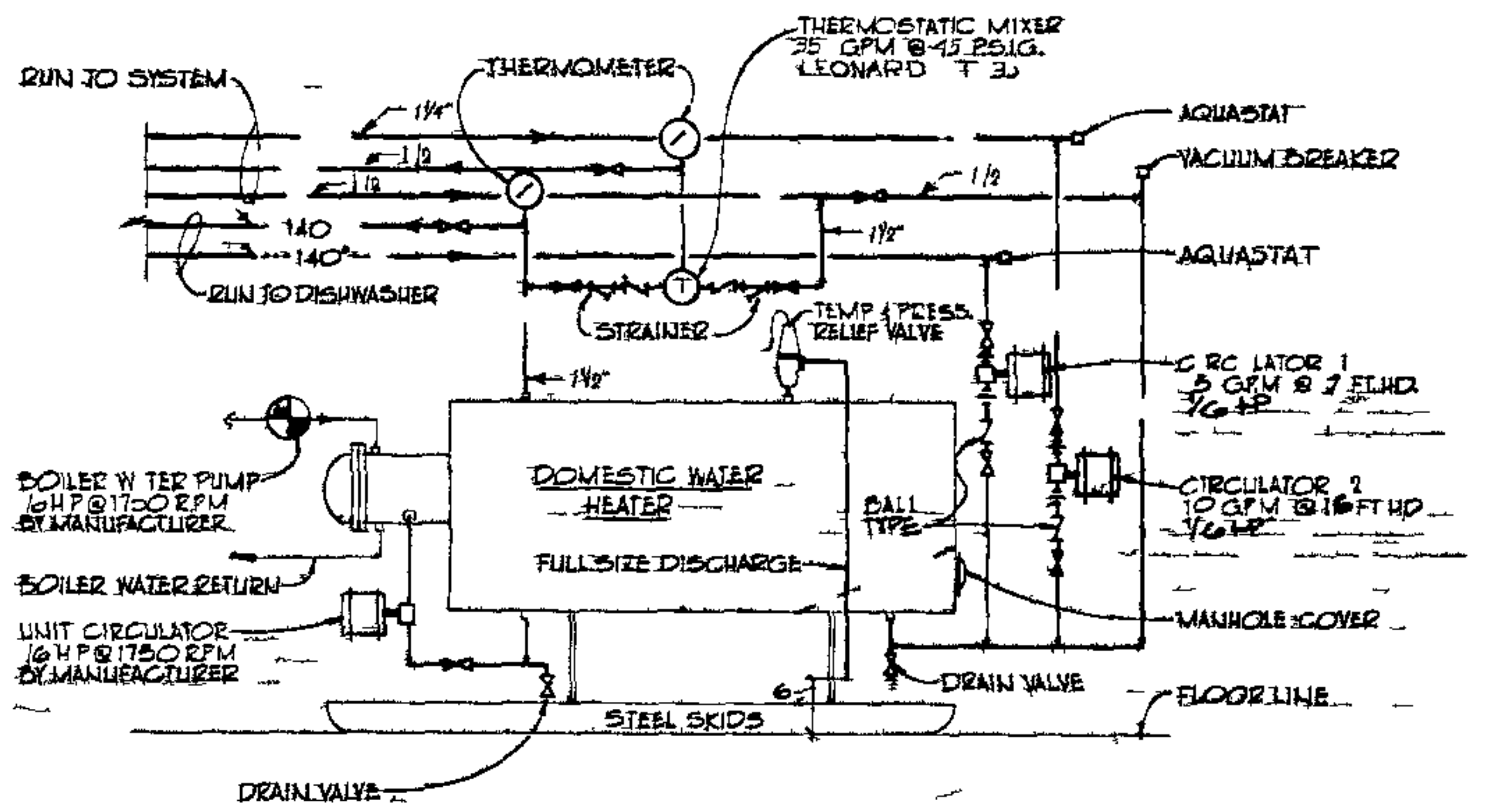
DETAIL
WATER METER PIPING DIAGRAM
NO SCALE



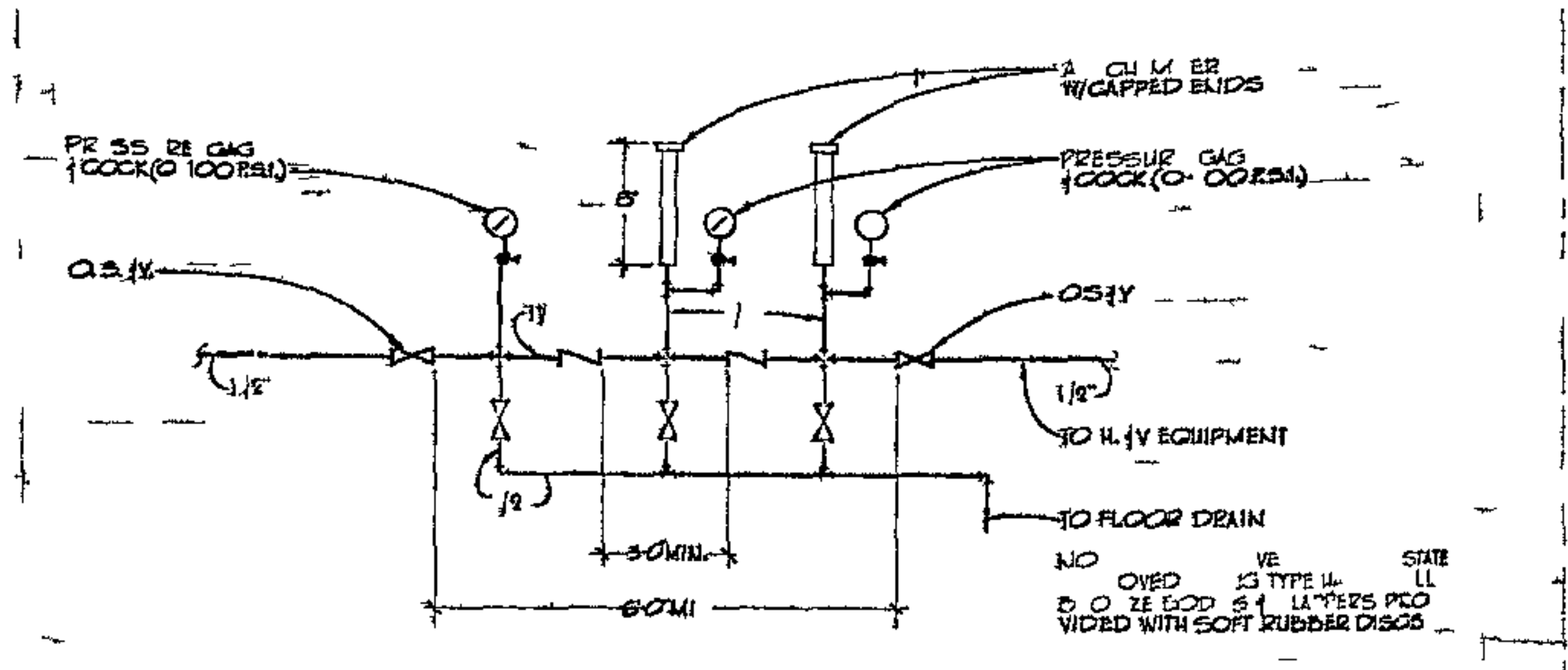
DETAIL
DISHWASHER & BOOSTER HEATER PIPING
NO SCALE



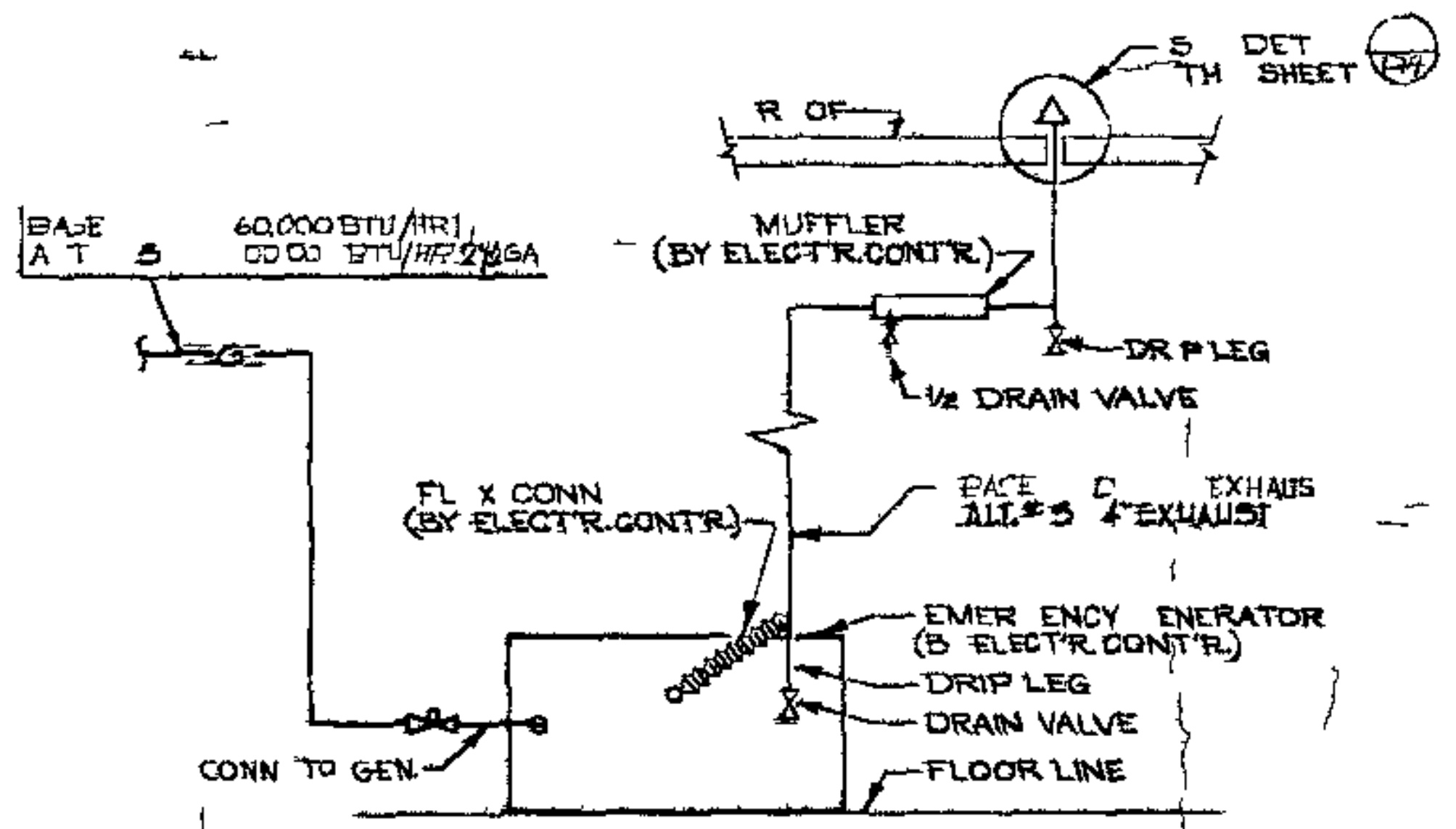
DETAIL
EMERGENCY GENERATOR EXHAUST THROUGH ROOF
NO SCALE



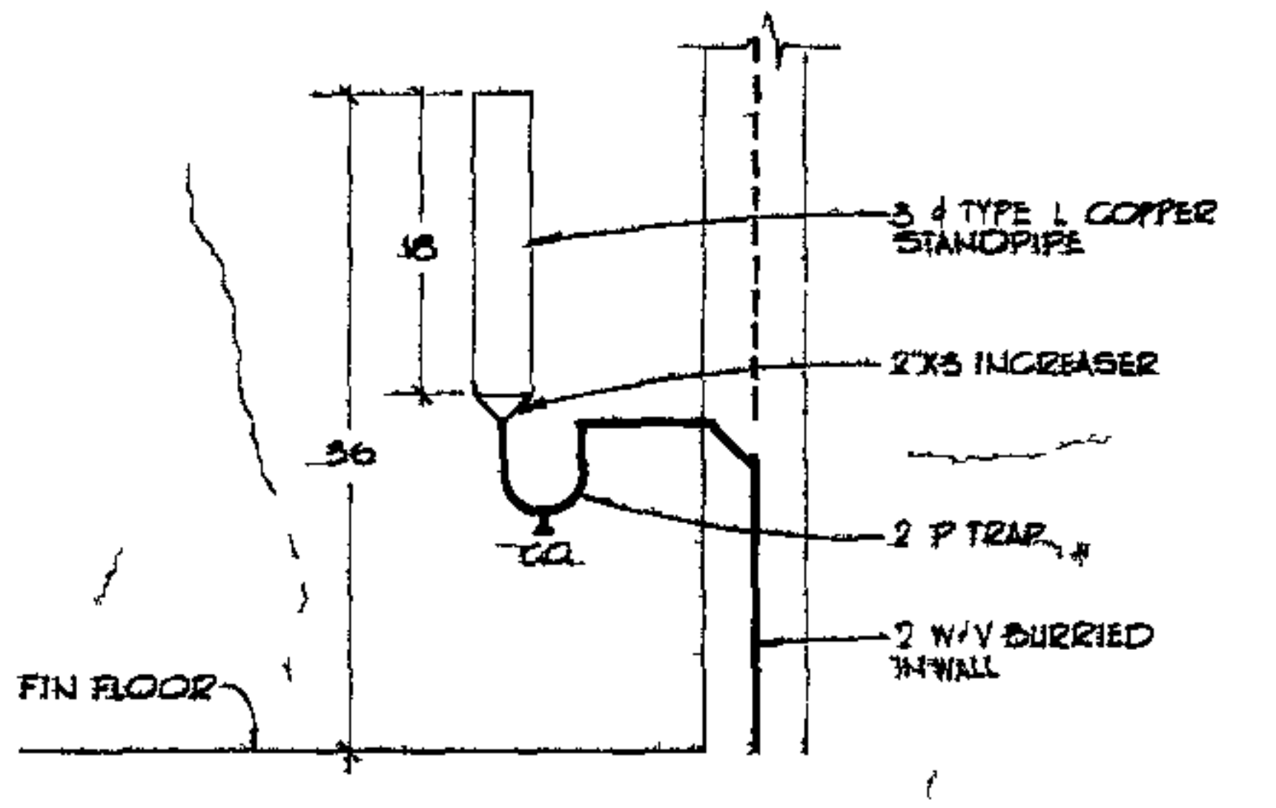
DETAIL
DOMESTIC WATER HEATER PIPING DIAGRAM
NO SCALE



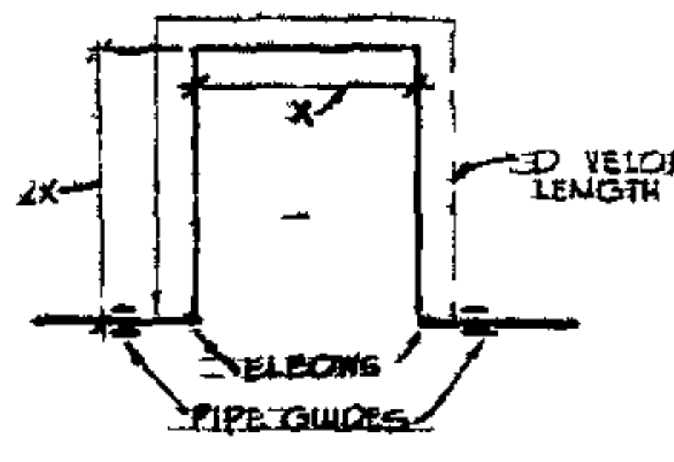
DETAIL
TYPICAL CROSS CONNECTION ASSEMBLY
NO SCALE


ROOF
SEE DETAIL THIS SHEET
BASE ALT 3
MUFFLER (BY ELECT'R. CONTR.)
DRIP LEG
1/2 DRAIN VALVE
FLEX CONN (BY ELECT'R. CONTR.)
BASE BID ALT 3 4" EXHAUST
EMERGENCY GENERATOR (BY ELECT'R. CONT'R.)
DRIP LEG
DRAIN VALVE
FLOOR LINE
CONN TO GEN.

DETAIL
EMERGENCY GENERATOR EXHAUST
NO SCALE

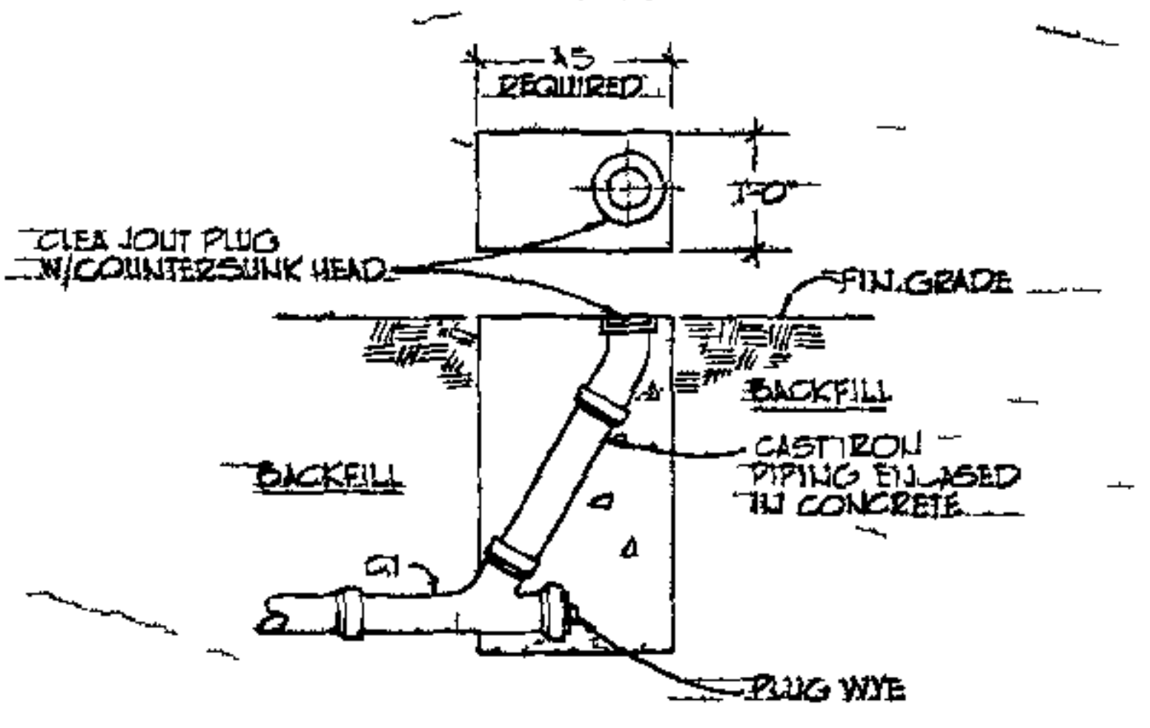


DETAIL
CLOTHESWASHER STANDPIPE
NO SCALE



SIZE OF MAIN	DEVELOPED LENGTH
1/2"	8
3/4	9 3
1	10 5
1 1/4	11 9"
1 1/2	12 6
2	13 10"

DETAIL
EXPANSION LOOP REQUIREMENTS
NO SCALE


AS REQUIRED
CLEANOUT PLUG W/COUNTERSUNK HEAD
FIN. GRADE
BACKFILL
BACKFILL
CAST IRON PIPING ENCASED IN CONCRETE
PLUG WYE

DETAIL
GROUND CLEANOUT
NO SCALE

STONER ASSOCIATES
ARCHITECTS
BOSTON, MASS

NEW ELEMENTARY SCHOOL
READING MASS

KITCHEN PLAN BOILER ROOM
PLAN DETAILS PLUMBING

JOB NO	DRAWN RWG	SH WN
	CHECKED W.R.J.	DATE 2/ 3/68

P4

PARTITION FOUNDATION & SLAB CONSTRUCTION JOINT
OUTSIDE CONC PLATFORM DETAIL
WALL CONSTRUCTION JOINT
DETAIL
SECTION A A
KEY PLAN
PART A
PART B
DETAIL 1
DEPRESS SLAB FOR SLATE FLR FINISH
DEPRESS SLAB FOR QUARRY TILE FL FIN
4 CONCRETE SLAB
PARTN FDN
108 7
64 6
126 8
299-11

FOUNDATION PLAN - PART A

SCALE 1/8" = 1'-0"

UNLESS OTHERWISE NOTED BOTTOM ALL EXTERIOR WALL FOOTINGS SHALL BE @ EL 197 0

UNLESS OTHERWISE NOTED TOPS OF INTERIOR COLUMN FOOTINGS SHALL BE @ EL 200 6

UNLESS OTHERWISE NOTED ALL INTERIOR COL FOOTINGS SHALL BE 2-6 2-6 x 1-0 W/ 4 #4 BOT EA WAY

NOTE WELL !!
A SAMPLE CONCRETE PIER AS DETAILED ON DWGS. 10 & 5S SHALL BE PROVIDED COMPLETE BEFORE WORK ON THE OTHER PIERS IS BEGUN. THIS SAMPLE PIER SHALL BE INSPECTED BY THE ARCHITECT FOR HIS APPROVAL AS TO SHAPE GENERAL APPEARANCE AND FINISHING. NO WORK ON THE OTHER PIERS SHALL BE DONE UNTIL A SAMPLE PIER IS APPROVED IN WRITING BY THE ARCHITECT. THIS NOTE APPLIES TO PIERS IN BOTH PART A & PART B

THE CONSTRUCTION & MATERIALS FOR THIS BUILDING CONFORM TO THE STRUCTURAL REGULATIONS FOR SCHOOL HOUSES

MASS REG # 6652

STON R SSOCI TES

NEW ELEMENTARY SCHOOL
READING MASS

FOUNDATION PLAN
PART A

NO. S1

GENERAL NOTES

1 FOR MATERIALS ERECTION & WORKMANSHIP SEE SPECIFICATIONS
2. FOR BOLTS INSERTS CONDUITS SLEEVES OPENINGS CONCRETE SEE ALSO ARCHITECTURAL ELECTRICAL & MECHANICAL DRAWINGS
3 FOR EXACT LOCATION OF PARTITION FOUNDATIONS & RECESSED SLAB AREAS SEE ARCHITECTURAL DRAWINGS
4. FOR ADDITIONAL CONCRETE WORK SEE ALSO ARCHITECTURAL ELECTRICAL & MECHANICAL DRAWINGS & SITE PLAN
5. CARRY ALL FOOTINGS TO SOLID BEARING NOTIFY ARCHITECT WHENEVER UNSUITABLE SOIL BEARING (LESS THAN 2 TONS PER SQUARE FOOT) IS ENCOUNTERED AT THE ELEVATIONS SHOWN BEFORE PLACING CONCRETE FOR FOOTINGS
6 LAP ALL REINFORCING CONTINUOUS INCLUDING AT CORNERS AND AT INTERSECTIONS OF CONCRETE WALLS
7 SLOPE ALL CONCRETE FLOORS TO DRAINS WHERE CALLED FOR ON ARCHITECTURAL DRAWINGS
8. FOR THRESHOLD & SILL DETAILS SEE ARCHITECTURAL DRAWINGS
9 BRACE ALL CONCRETE WALLS HAVING FILL ON ONE SIDE AS REQUIRED UNTIL BACKFILL HAS BEEN PROPERLY COMPACTED AND UNTIL FLOOR SLABS HAVE BEEN POURED
10 FRAME ALL STEEL BEAMS OVER TOPS OF STEEL COLUMNS WHERE POSSIBLE
11 USE BOLTS WITH HEXAGONAL HEADS AND NUTS WITH BOLTS NOT TO EXCEED 3/16 BEYOND FACE OF NUT FOR ALL CONNECTIONS EXPOSED TO VIEW WHEN ONE SIDE OF CONNECTION ONLY IS EXPOSED TO VIEW FACE BOLT HEAD TOWARD VIEWER
12. ALL EXPOSED CONNECTION BOLTS SHALL FACE IN THE SAME DIRECTION
13 PROVIDE STEEL MASONRY ANCHORS 1 1/8 1-4 + 2 BEND WELDED TO ALL FACES OF ALL STEEL COLUMNS THAT ABUT MASONRY @ 2-0 & AND AS DIRECTED BY MASONRY CONTRACTOR
14. PROVIDE GBBS MECHANICAL EQUIPMENT SUPPORTS TO BE LOCATED IN THE FIELD TO SUIT THE MECHANICAL EQUIPMENT CONTRACTORS REQUIREMENTS SEE ALSO MECHANICAL DRAWINGS FOR ADDITIONAL GBBS'S REQUIRED
15. ALL STRUCTURAL STEEL THAT IS TO REMAIN EXPOSED TO VIEW SHALL BE CONSIDERED AS AND SHALL BE DETAILED FABRICATED PAINTED AND ERECTED IN ACCORDANCE WITH THE LATEST SPECIFICATIONS FOR ARCHITECTURALLY EXPOSED STEEL
16. PROVIDE STEEL ANGLE LINTELS OVER ALL MASONRY OPENINGS (EXCEPT WHERE DOOR FRAMES ARE DESIGNED TO ACT AS THEIR OWN LINTELS) AS FOLLOWS
   8 CB 2L 4×3½ 5/16 LL
   6 CB 2LS 3½ 3½ 5/16 LL
   4" CB BRICK OR TILE 1 4×4×5/16
   REST ALL LINTELS 6 ON MASONRY EACH END OR FRAME INTO STEEL AS REQUIRED.
17 FRAME AROUND ALL ROOF OPENINGS W/ LS 2½×2½ 3/16 EXCEPT AS NOTED ON FRAMING PLAN SEE ARCHITECTURAL ROOF PLAN
18. PROVIDE ALL STUD BOLTS & BOLT HOLES FOR WOOD BLOCKING AS CALLED FOR ON ARCHITECTURAL DETAILS
19 ALL STEEL L P CLIPS ETC REQUIRED TO SUPPORT BLOCKING NAILERS WINDOWS ETC. WHICH ARE CALLED FOR ON THE STRUCTURAL STEEL DRAWING AND ON THE ARCHITECTURAL DRAWINGS SHALL BE SECURELY FIELD WELDED TO SUIT ACCURATELY THE ARCHITECTURAL REQUIREMENTS
20. NOTCH TOPS OF BUB TEES AS REQUIRED @ WARPED ROOF AREAS
21 LOCATE & COORDINATE HUNG TOILET PARTITION SUPPORTS SHOWN ON FRAMING PLANS IN THE FIELD TO SUIT TOILET PARTITION MANUFACTURERS REQUIREMENTS

ALL CONCRETE WORK WHICH SHALL BE PROVIDED ON THIS SIDE OF BUILDING ℄ IS THE SAME AS THE CONCRETE WORK WHICH SHALL BE PROVIDED AS SHOWN ON THE OTHER SIDE OF THE BUILDING ℄, EXCEPT THAT IT WILL BE OPPOSITE HAND AND EXCEPT AS SHOWN OTHERWISE

SEE NOTE SHT S1 REGARDING CONCRETE PIER SAMPLE

FOUNDATION PLAN - PART B

SCALE 1/8" 1'-0"
BOTTOM EXTERIOR WALL FOOTINGS SHALL BE @ EL 197-0 UNLESS OTHERWISE NOTED
TOPS OF INTERIOR COLUMN FOOTINGS SHALL BE @ EL 200-6 UNLESS OTHERWISE NOTED.
UNLESS OTHERWISE NOTED ALL COL PIERS SHALL BE 2-6×12¼×1-0 W/ 4-#4 BOT EA WAY

STONER ASSOCIATES

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READING MASS

FOUNDATION PLAN
PART B

S2

RMR 2.6.68

ROOF FRAMING PLAN - PART "A"

SCALE 1/8" = 1'-0"

UNLESS OTHERWISE NOTED ALL EXTERIOR COLUMN SHALL BE 4x4x 3/16 - 22# PS CONC FILLED - LOW ROOF AREAS ONLY.

UNLESS OTHERWISE NOTED ALL INTERIOR COLUMN SHALL BE 4x4x 3/16 - 22# PS CONC FILLED LOW ROOF AREAS ONLY.

UNLESS OTHERWISE NOTED TOP OF EXTERIOR ROOF BEAMS @ LOW ROOF AREAS SHALL BE 11 7/4 ABOVE F FLOOR.

UNLESS OTHERWISE NOTED TOPS OF TER OR ROOF BEAMS @ LOW ROOF AREAS VARY IN STRAIGHT LINE BETWEEN 11 7/4 (OTED H P ON PLAN) & 10 9 3/4 (NOTED LP ON PLAN) SEE ROOF PLAN DWG #13

STONER ASSOCIATES
A H TC

NEW ELEMENTARY SCHOOL
READING MASS

FRAMING PLAN
PART A

CH'KD. — DR. AWF — AN
EMR 6 5 68

S3

℄ BUILDING
SYMMETRICAL ABOUT ℄ EXCEPT AS SHOWN OTHERWISE
ALL STEEL WORK WHICH SHALL BE PROVIDED ON THIS SIDE OF THE BUILDING ℄ IS THE SAME AS THE STEEL WORK WHICH SHALL BE PROVIDED AS SHOWN ON THE OTHER SIDE OF THE BUILDING ℄ EXCEPT THAT IT SHALL BE OPPOSITE HAND AND EXCEPT AS SHOWN OTHERWISE
KEY PLAN
PART B
PART A
SUPPORTING BEAM
EXPANSION BEAM
BEAM CONNECTION @ EXP JOINT
STD NET HORIZ BRIDGING
16H5 STL JOISTS @ 4'-0" o/c
14H4 STL JOISTS @ 4'-0" o/c
20H8 STL JOISTS @ 4'-0" o/c
18H6 STL JOISTS @ 4'-0" o/c
8H2 STL JOISTS @ 4'-0" o/c
PITCH DOWN
DOUBLE JOISTS
EXPANSION JOINT
CATWALK
H1
H2
H3
H4
H5
H6
H7
H8
H9
H10
H11
H12
H13
H14
H15
H16
H17
H18
H19
H20
H21
1B
2B
3B
4B
5B
6B
7B
8B
9B
10B
11B
12B
13B
14B
15B
16B
17B
18A
18B
19B
20B
21B
23B
24B
25B
26B
27B
28B
29B
30B
31B
32B
33B

ROOF FRAMING PLAN - PART B

SCALE 1/8" = 1'-0"

UNLESS OTHERWISE NOTED ALL EXTERIOR COLS SHOWN ON TH PLAN SHALL B 4 4 3/16 12# RS (CONCRETE FILLED STEEL COLUMNS.)

UNLESS OTHER SE NOTED ALL NTERIOR COLS SHOWN ON THIS PLAN SHALL BE 6x6x3/16 4T#RS (CONCRETE FILLED STEEL COLUMNS)

LESS OTHERW SE Y TED TOP OF EXTERIOR ROOF BEAMS SHALL BE 11' 7 1/4 ABOVE FIN FLR.

UNLESS OTHER SE NOTED TOPS OF INTERIOR ROO BEAM VARY IN STE GHT S BETWEEN 11' 7 + (NOTED P ON PLAN) & 10' 9 3/4 (NOTED ON PLAN) SEE ROOF PLAN DWG # 3

STONER ASSOCIATES
C H I

NEW ELEMENTARY SCHOOL
READING MASS

FRAMING PLAN
PART B

AHM AN
BHE 8.15-68

S4

ASSOCIATES

NEW ELEMENTARY SCHOOL
READING, MASS

STRUCTURAL DETAILS

S5