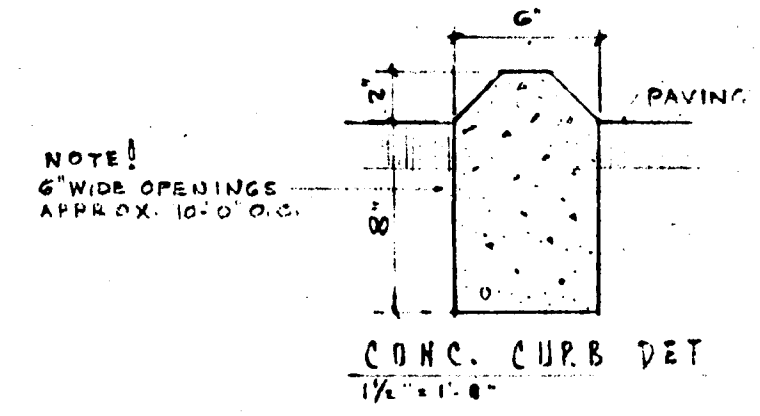
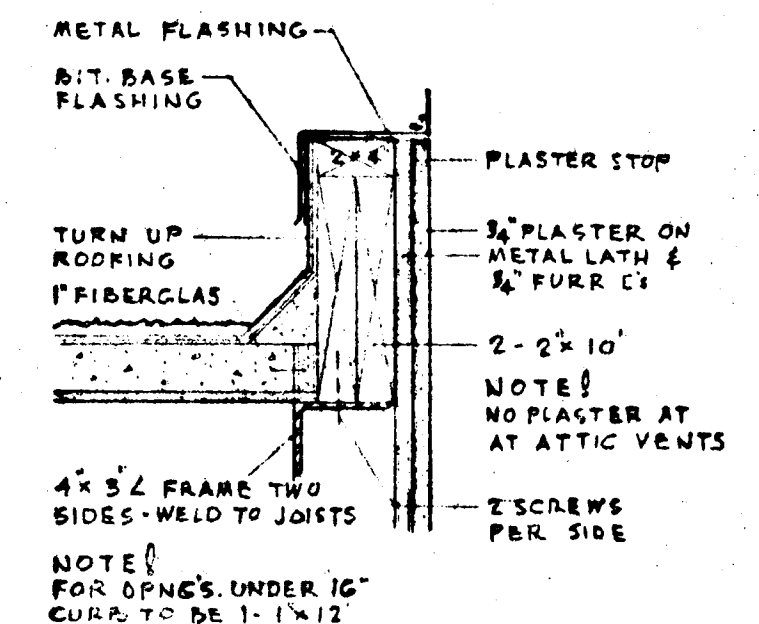


ELEVATION SECTION
FIRE EXTINGUISHER NICHE
SCALE 3/4" = 1'-0"

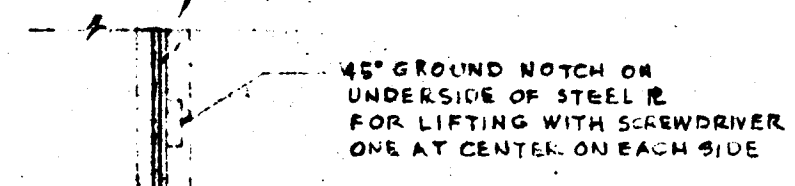


CONC. CURB DET
1/2" x 6"

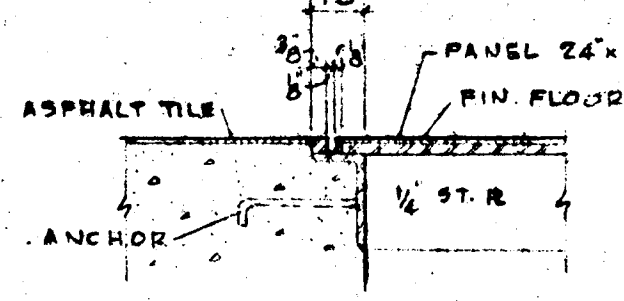


TYPICAL ROOF CURB DETAIL
1/2" x 1'-0"

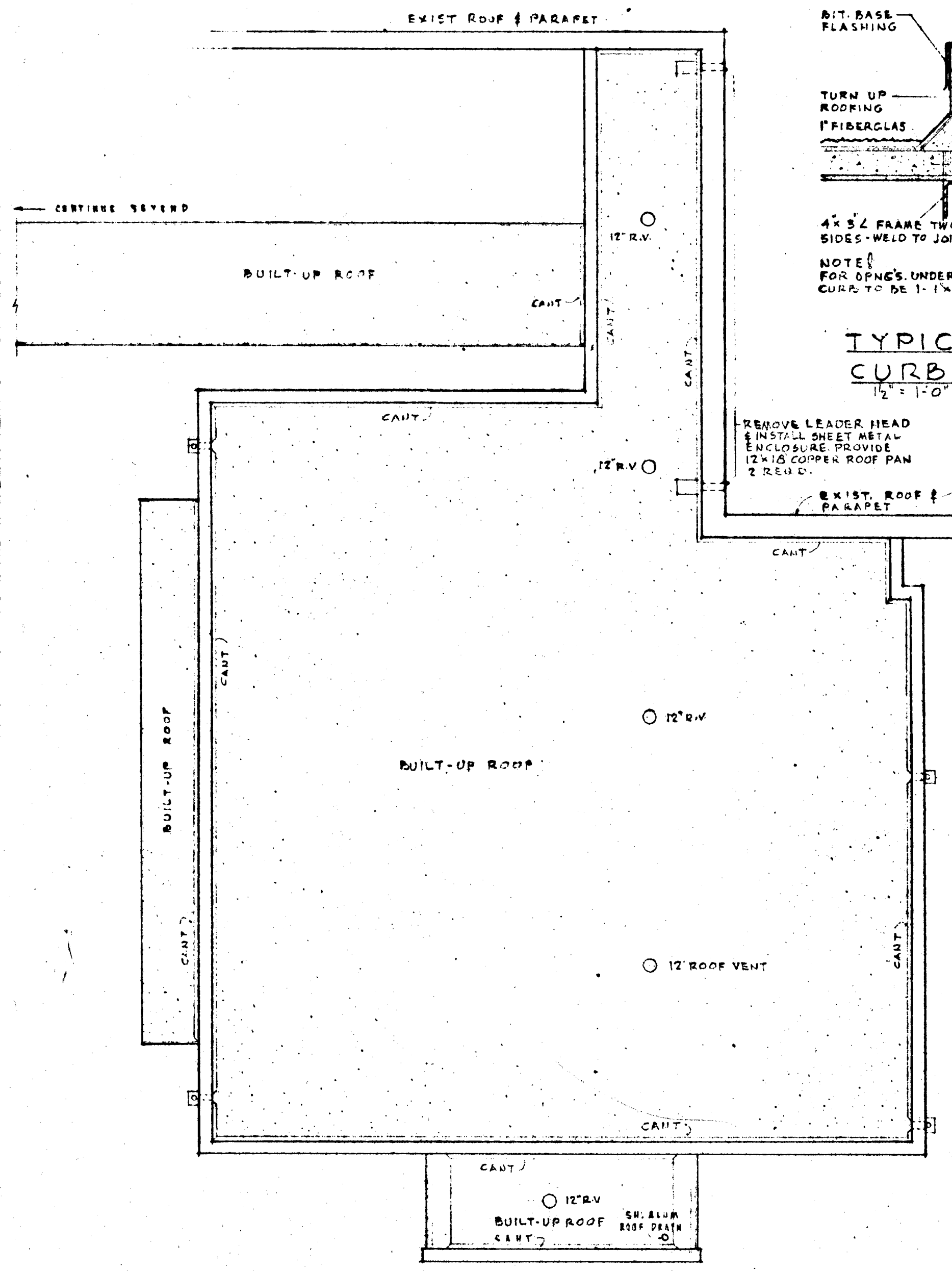
SITE NOTES
ALL AREAS DAMAGED BY WORK OPERATIONS SUCH AS RUTS, PITS, DEPRESSIONS ETC. SHALL BE FILLED, LEVELLED, RE-GRADED, TOP SOILED OR RE-SODDED AS DIRECTED BY THE ARCHITECT.
ALL PAVED AREAS DAMAGED BY WORK OPERATIONS SHALL BE REPAIRED WITH IDENTICAL CONSTRUCTION TO THE SATISFACTION OF THE ARCHITECT.



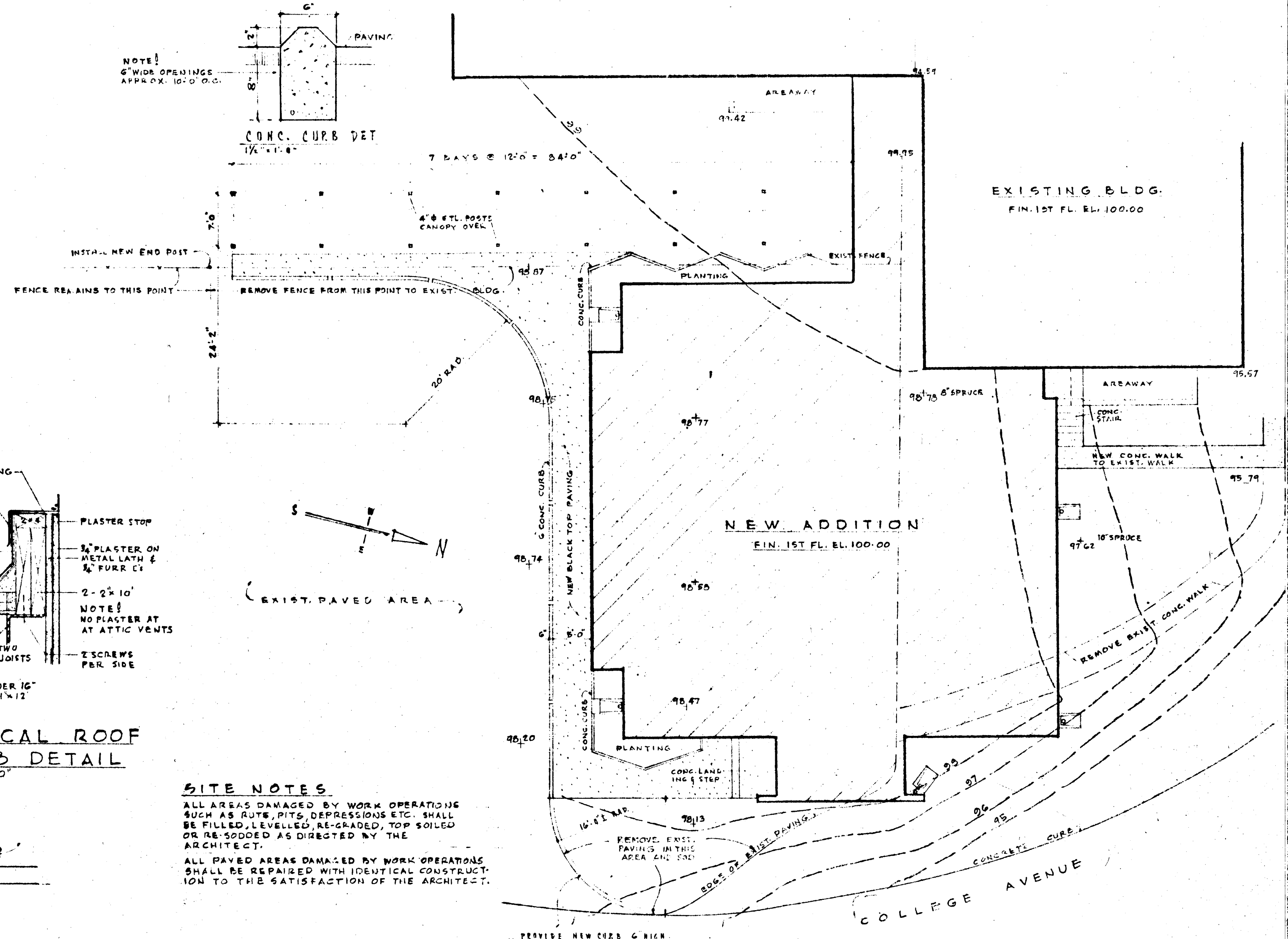
PART PLAN



SECTION
FLOOR ACCESS PANEL DETAIL
3/4" x 1'-0"



ROOF PLAN
SCALE 1/8" = 1'-0"

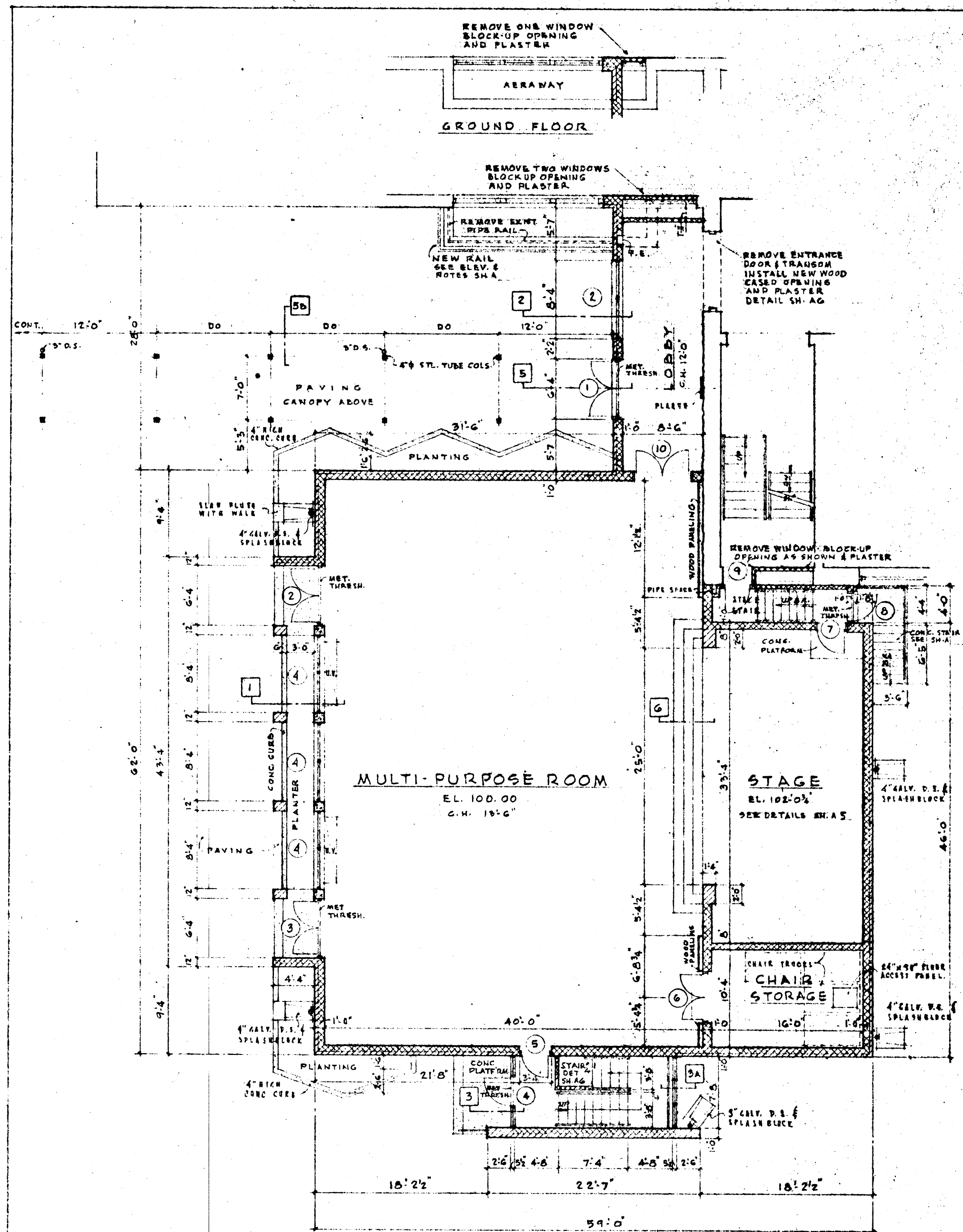


PLOT PLAN
SCALE 1" = 10'-0"

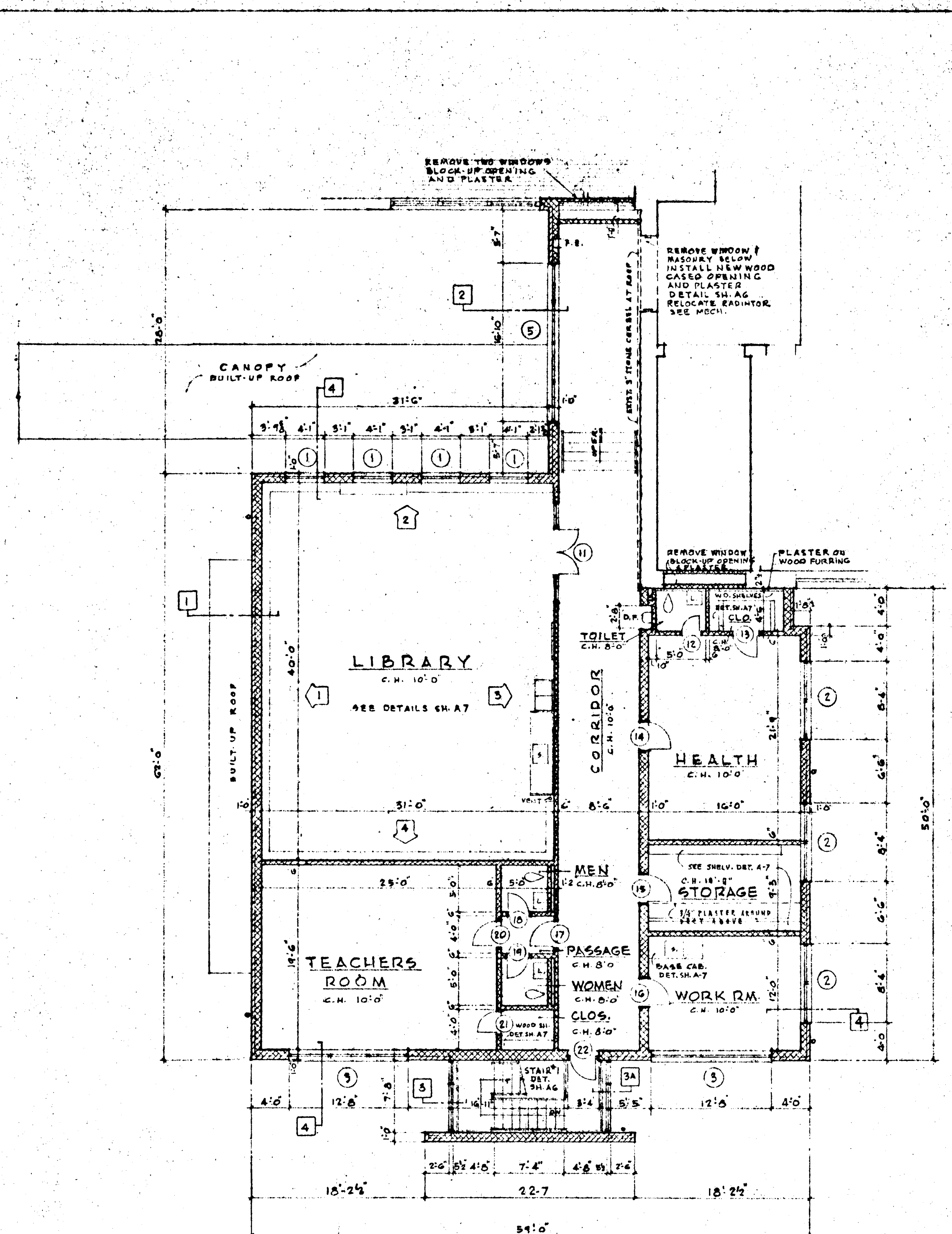
ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL

	ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL ELLICOTT CITY • MARYLAND	
	BOARD OF EDUCATION HOWARD COUNTY, MARYLAND JOHN C. YINGLING SUPT. OF SCHOOLS	
DATE APRIL 8, 1964	JOHANNES & MURRAY ASSOC. ARCHITECTS 395 PENSING DRIVE SILVER SPRING, MARYLAND	SHEET A-1
DRAWN D.W.	J. G. WILSON, JR. STRUCTURAL ENGINEER R. L. LUTZ MECHANICAL ENGINEER SCHUBBA & FOLDFORD ELECTRICAL ENGINEERS	OF 7
REVISIONS	JOB NO. 517	

FEDERAL PROJECT MD-63-C-1102B13



FIRST FLOOR PLAN
SCALE 1/4" = 1'-0"



SECOND FLOOR PLAN
SCALE 1/4" = 1'-0"

FINISH SCHEDULE

ROOM	FLOOR	BASE	WAINSCOT	WALLS	CEILING	REMARKS	ROOM	FLOOR	BASE	WAINSCOT	WALLS	CEILING	REMARKS
MULTI-PURPOSE	A.T.	C.T.	—	P.S.B.	ACT.	SEE WOOD PANELING DET. WALL &	CORRIDOR	A.T.	C.T.	4 1/2" C.C.R.T.	P.S.B.	ACT.	EXISTING STONE EXPOSED
STAGE	A.T.	C.T.	—	P.S.B.	ACT.		WORK ROOM	A.T.	C.T.	—	P.S.B.	ACT.	
CHAIR STOR.	A.T.	C.T.	—	P.S.B.	PLAS.		STORAGE	A.T.	C.T.	—	P.S.B.	PLAS.	
LOBBY	A.T.	C.T.	4 1/2" C.C.R.T.	P.S.B.	ACT.	EXISTING STONE EXPOSED	HEALTH	A.T.	C.T.	—	P.S.B.	ACT.	
LIBRARY	A.T.	WOOD	—	P.S.B.	ACT.		HEALTH TOILET	C.T.	C.T.	4 1/2" C.C.R.T.	P.S.B.	PLAS.	
TEACHERS RM.	A.T.	C.T.	—	P.S.B.	ACT.		HEALTH CLO.	A.T.	C.T.	—	P.S.B.	PLAS.	
MENS TOILET	C.T.	C.T.	4 1/2" C.C.R.T.	P.S.B.	PLAS.		STAGE STAIR	A.T.	C.T.	—	P.S.B.	PLAS.	
WOMENS TOILET	C.T.	C.T.	4 1/2" C.C.R.T.	P.S.B.	PLAS.		STAIR NO. 1	A.T.	1 1/2" SL.	4 1/2" C.C.R.T.	P.S.B.	PLAS.	LAMPING & TRUSS ALUMINUM STONE
PASSAGE	A.T.	C.T.	—	P.S.B.	PLAS.								
TEACHER CLO.	A.T.	C.T.	—	P.S.B.	PLAS.								

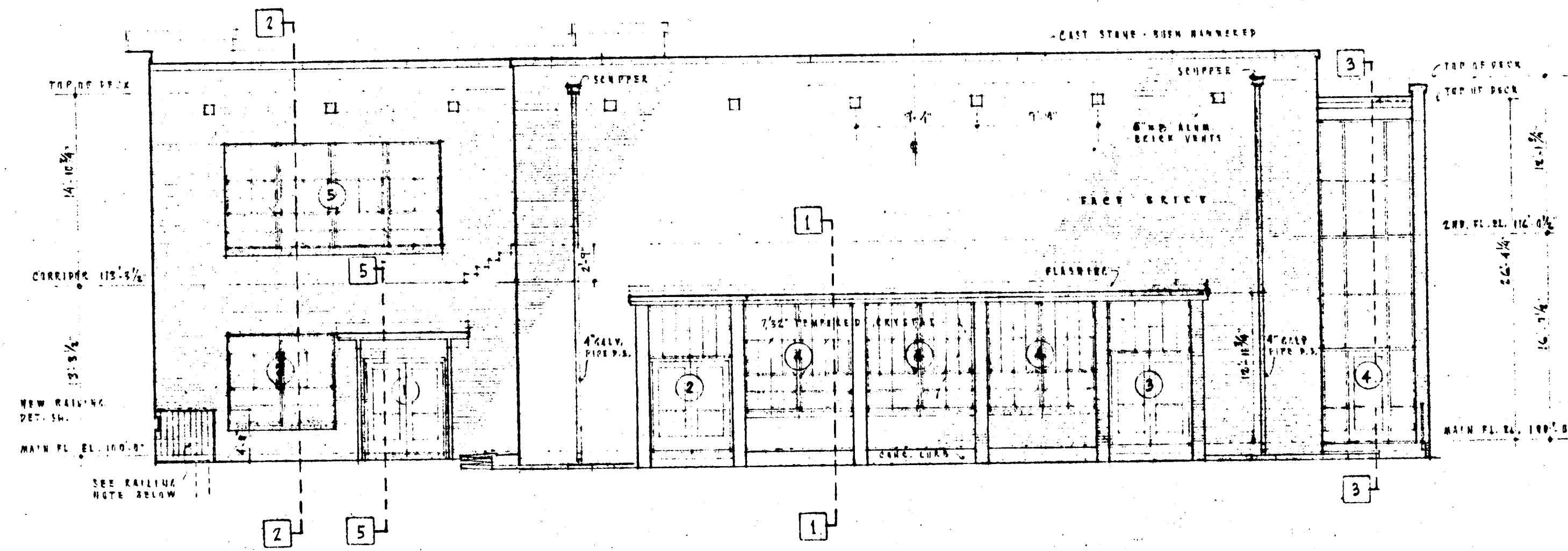
ABBREVIATIONS
 A.T. = ASPHALT TILE
 ACT. = ACUSTIC TILE
 C.T. = CERAMIC TILE
 P.S.B. = PAINT CINDER BLK.
 PLAS. = PLASTER

FEDERAL PROJECT MD-69-C-1102B15

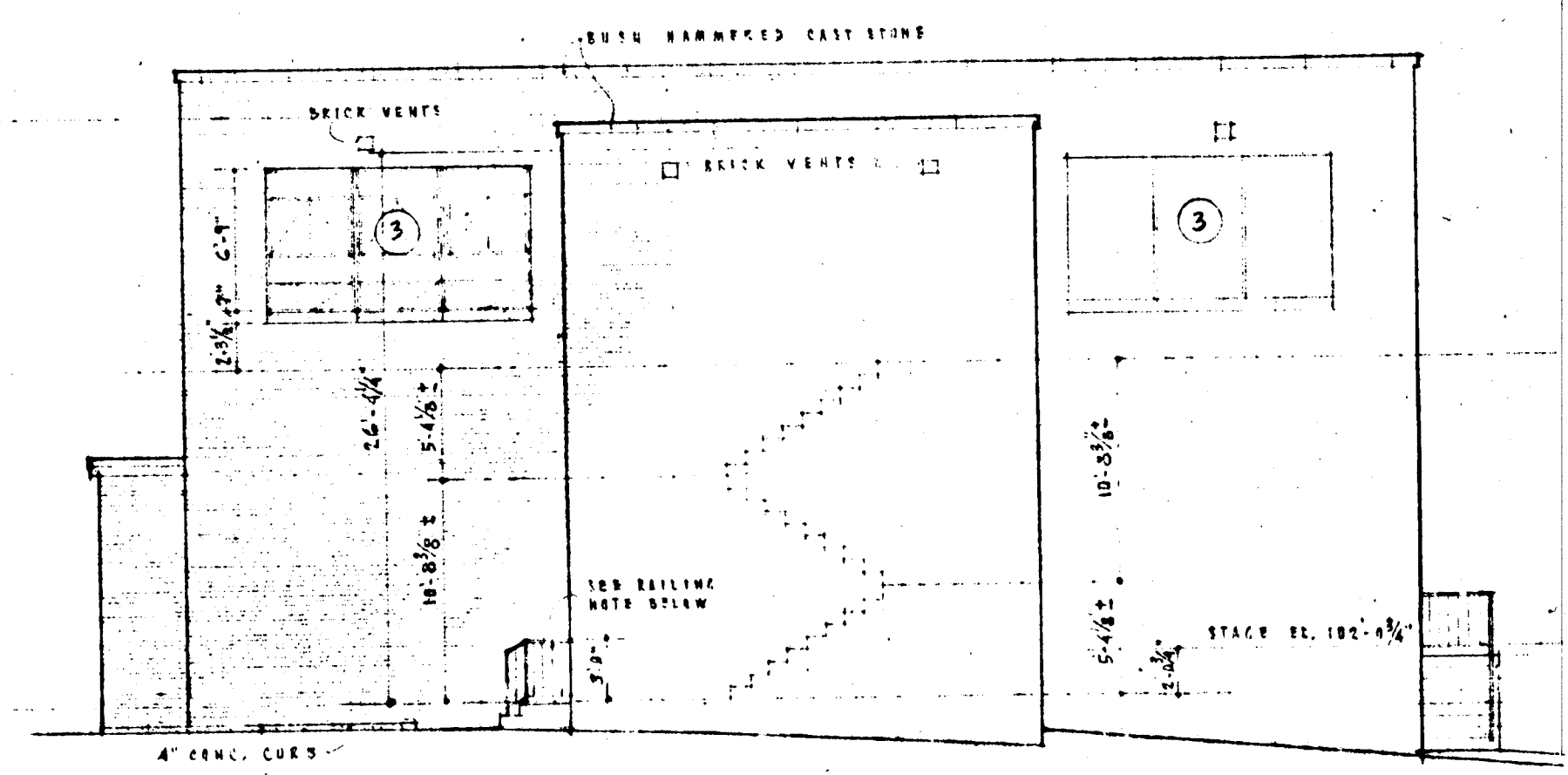
ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL
ELLICOTT CITY - MARYLAND

BOARD OF EDUCATION HOWARD COUNTY, MARYLAND
JOHN E. YINGLING SUPT. OF SCHOOLS

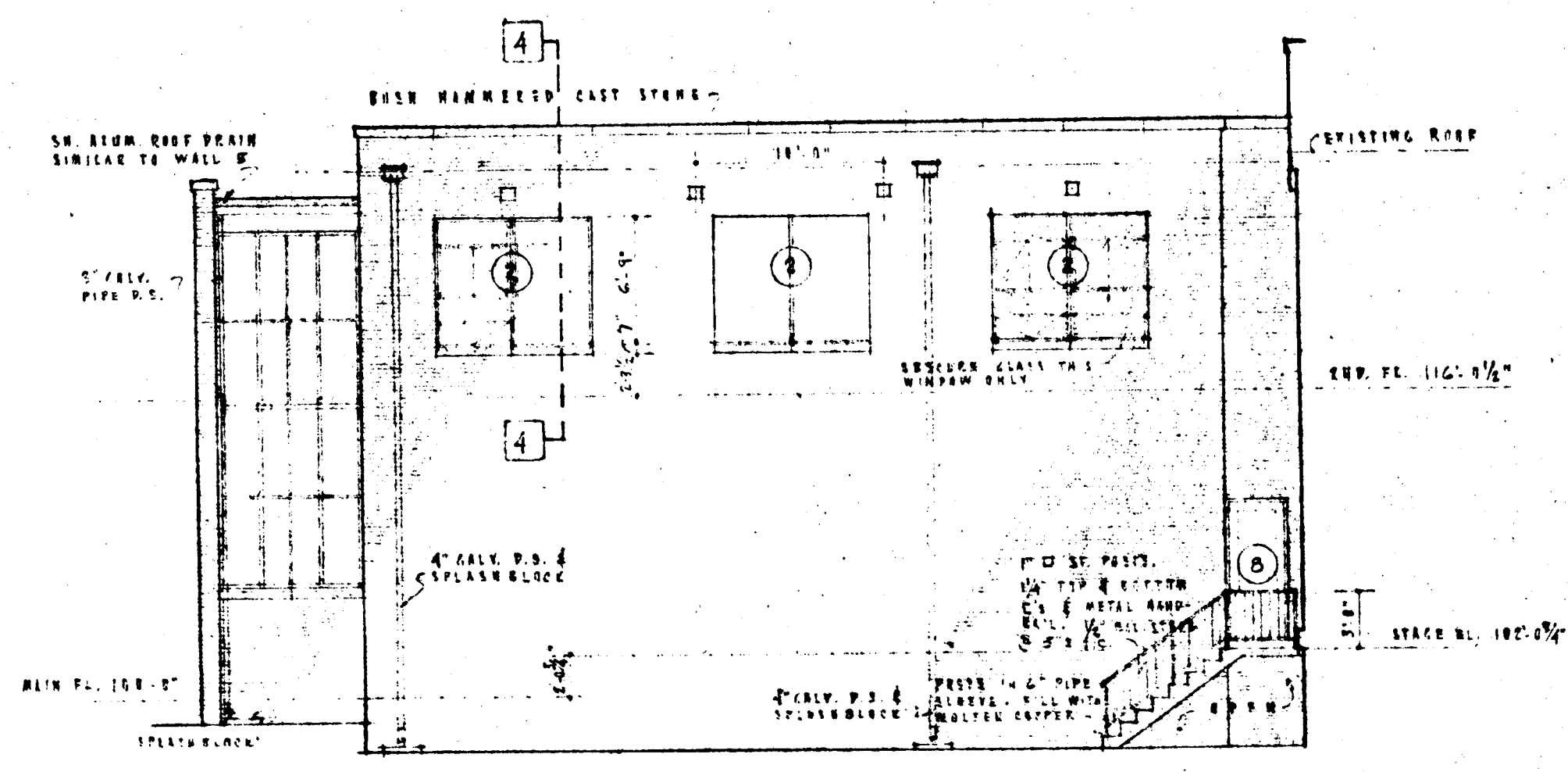
DATE	APRIL 8, 1964	JOHANNES & MURRAY ARCHITECTS	SHEET
DRAWN	CHECKED	855 PERSHING DRIVE SILVER SPRING, MARYLAND	A 2
REVISIONS		J. G. WILSON, JR. STRUCTURAL ENGINEER	OR
		R. L. LUTZ MECHANICAL ENGINEER	7
		SCHFIELD & FULFORD ELECTRICAL ENGINEERS	



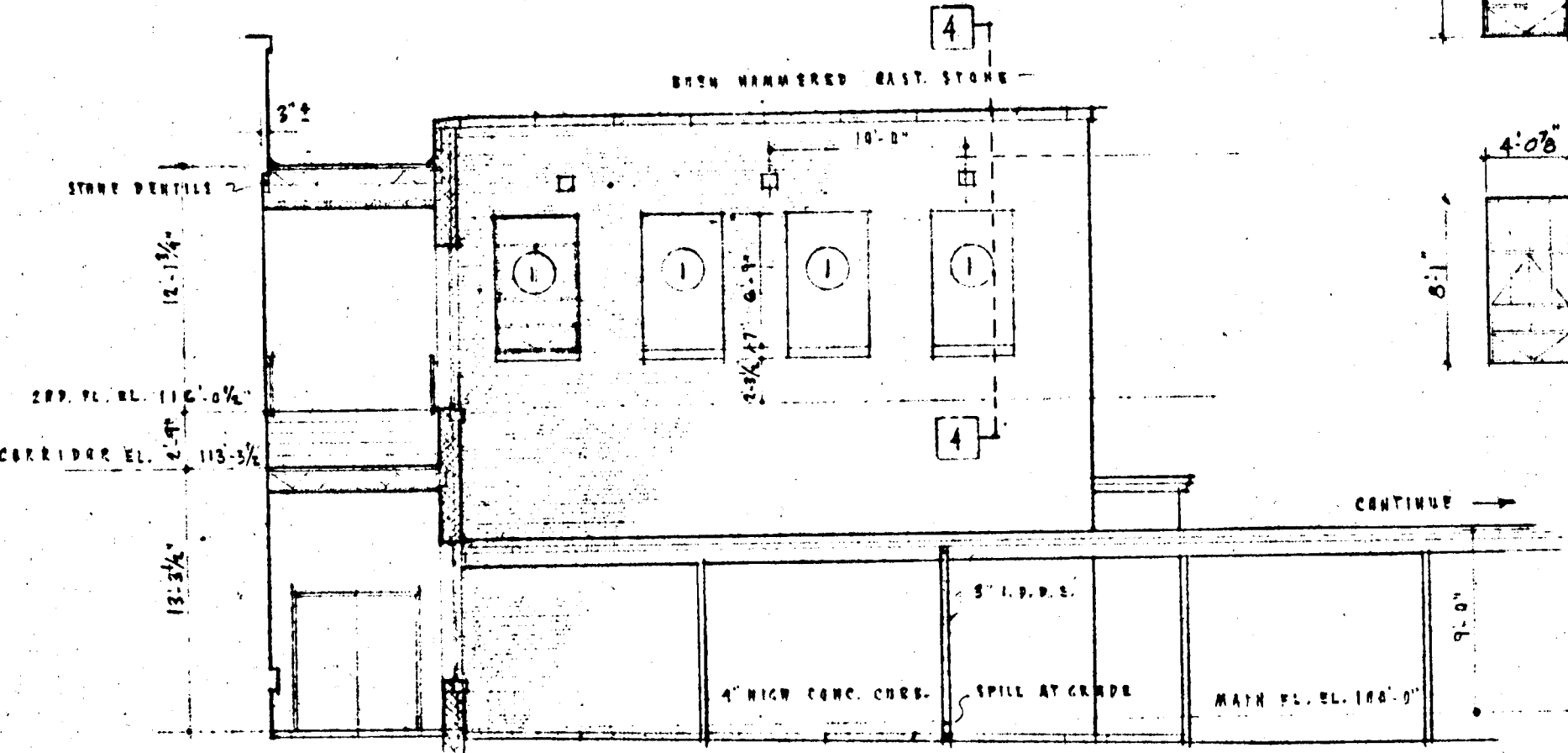
SOUTH ELEVATION



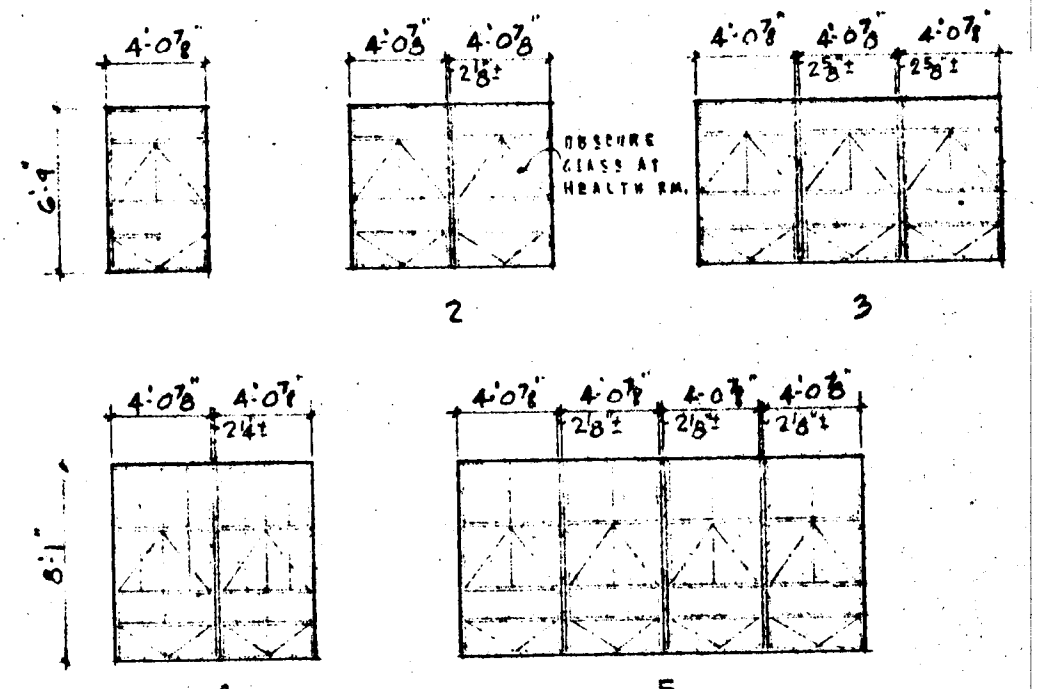
EAST ELEVATION



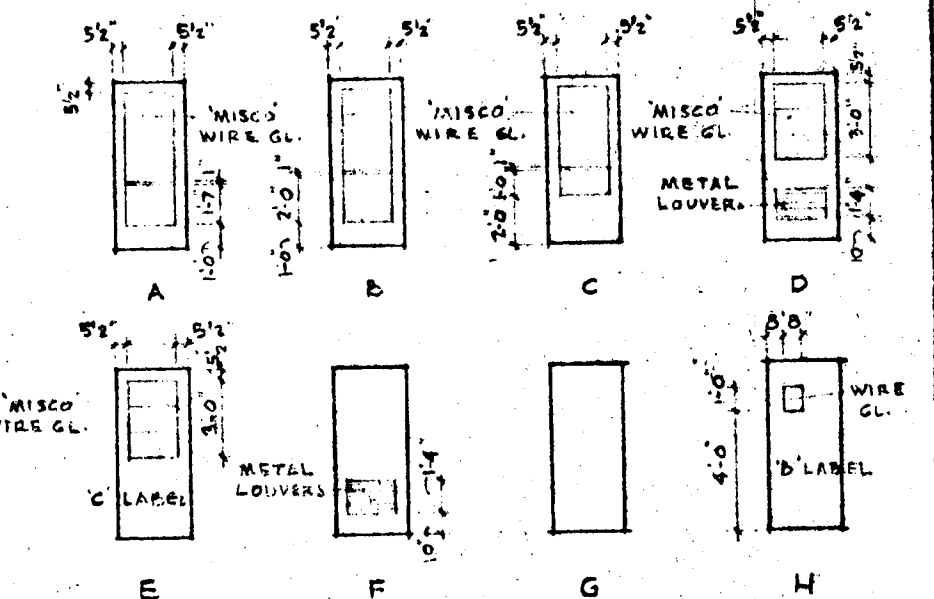
NORTH ELEVATION



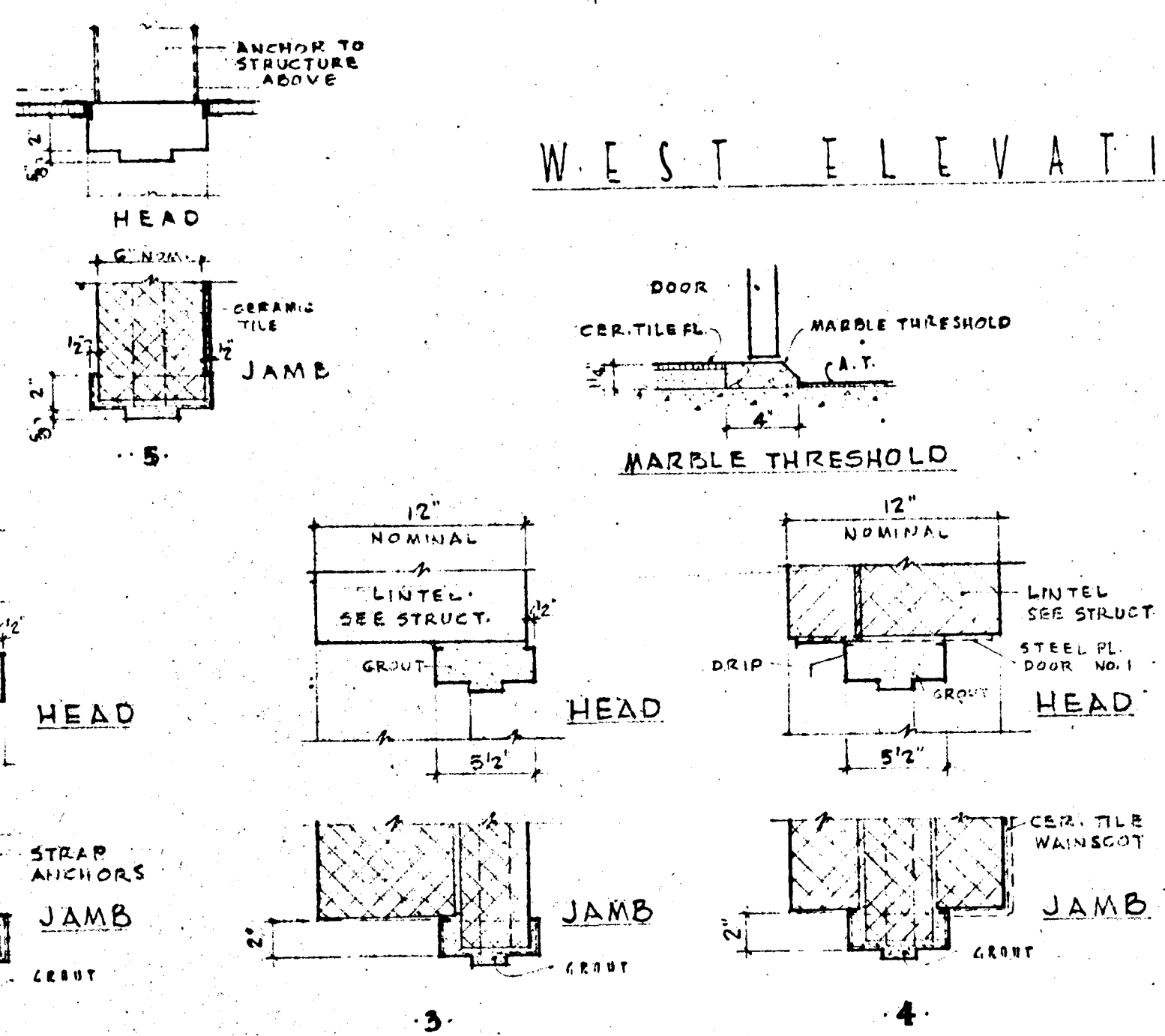
WEST ELEVATION



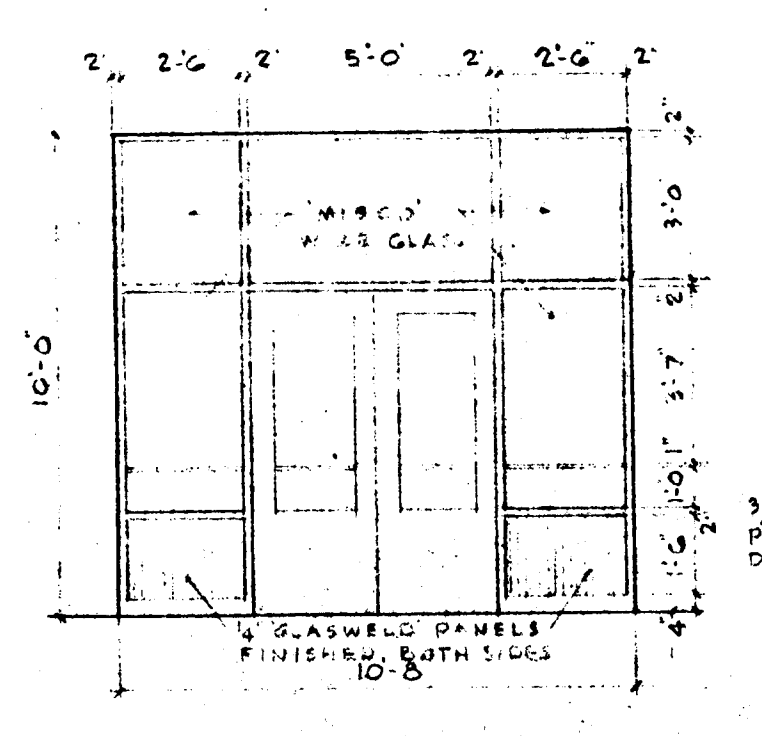
WINDOW TYPES



DOOR TYPES



DOOR FRAMES



LIBRARY ENTRANCE

DOOR SCHEDULE						
DOOR NO.	TYPE	GROUP	SIZE	MATERIAL	FRAME TYPE	REMARKS
1	D	2	3'-0" x 7'-2" x 1 1/2"	METAL	4	
2 & 3	D	2	3'-0" x 7'-0" x 1 1/2"	METAL	WALL SET IN	
4	A	1	3'-0" x 7'-0" x 1 1/2"	METAL	WALL SET IN	
5 & 22	H (Close)	1	3'-0" x 6'-8" x 1 1/2"	WOOD	3	AUTOMATIC DOOR CLOSER
6	F	2	2'-6" x 6'-8" x 1 1/2"	WOOD	1	
7 & 9	H (Close)	1	3'-0" x 6'-8" x 1 1/2"	WOOD	2	AUTOMATIC DOOR CLOSER
8	C	1	3'-0" x 7'-2" x 1 1/2"	METAL	4	
10	E (Close)	2	3'-0" x 6'-8" x 1 1/2"	WOOD	3	AUTOMATIC DOOR CLOSER
11	C	2	2'-6" x 6'-8" x 1 1/2"	WOOD	5	
12, 18 & 19	F	1	2'-0" x 6'-8" x 1 1/2"	WOOD	2	
13 & 21	F	1	2'-6" x 6'-8" x 1 1/2"	WOOD	2	
14 & 15	F	1	3'-0" x 6'-8" x 1 1/2"	WOOD	3	
16	D	1	3'-0" x 6'-8" x 1 1/2"	WOOD	3	
17	E	1	3'-0" x 6'-8" x 1 1/2"	WOOD	2	
20	G	1	3'-0" x 6'-8" x 1 1/2"	WOOD	3	

ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL
 ELLICOTT CITY - MARYLAND

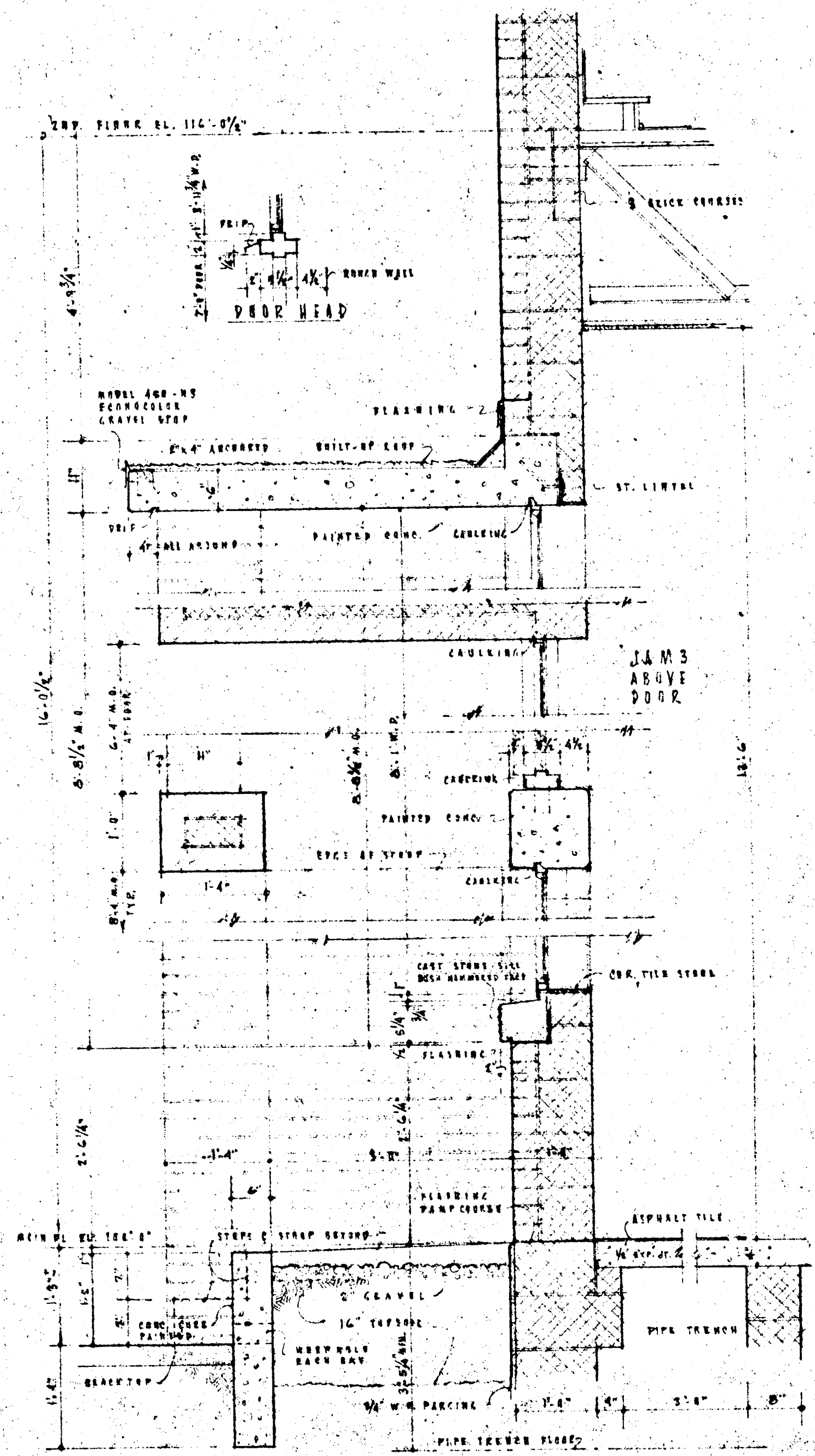
BOARD OF EDUCATION HOWARD COUNTY, MARYLAND
 JOHN E. YINGLING SUPT. OF SCHOOLS

DATE: APRIL 8, 1924
 DRAWN [CHECKED]
 J. G. WILSON, JR. ARCHITECT
 R. L. LUTZ MECHANICAL ENGINEER
 SCHEIBLA & FULFORD ELECTRICAL ENGINEERS

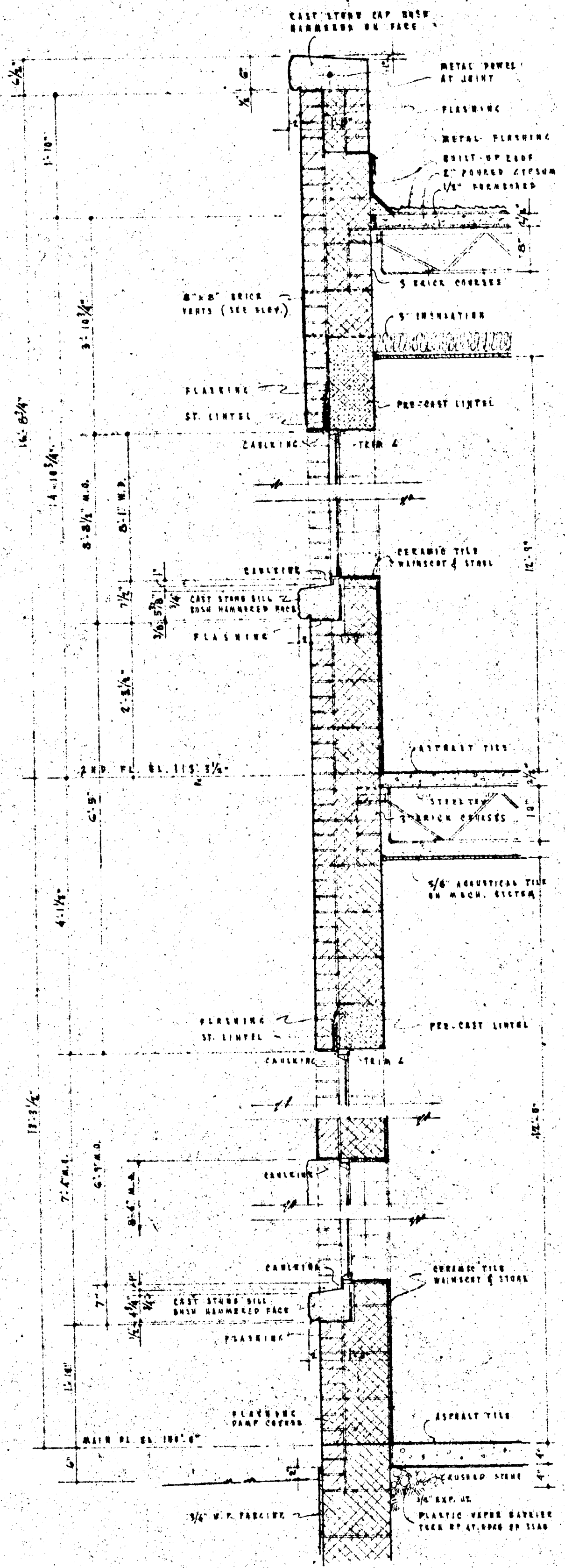
REVISIONS

SHEET A 3
 OF 7

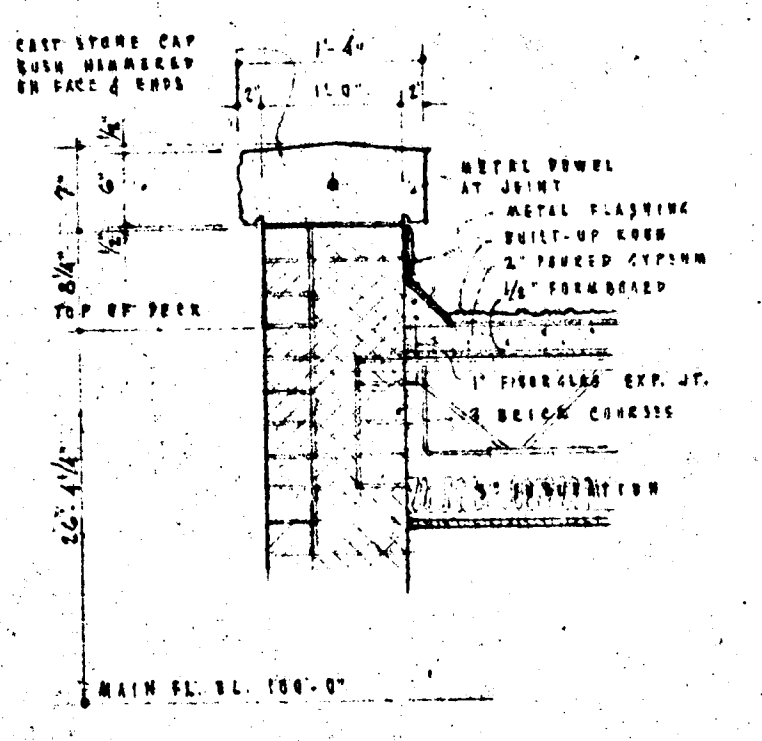
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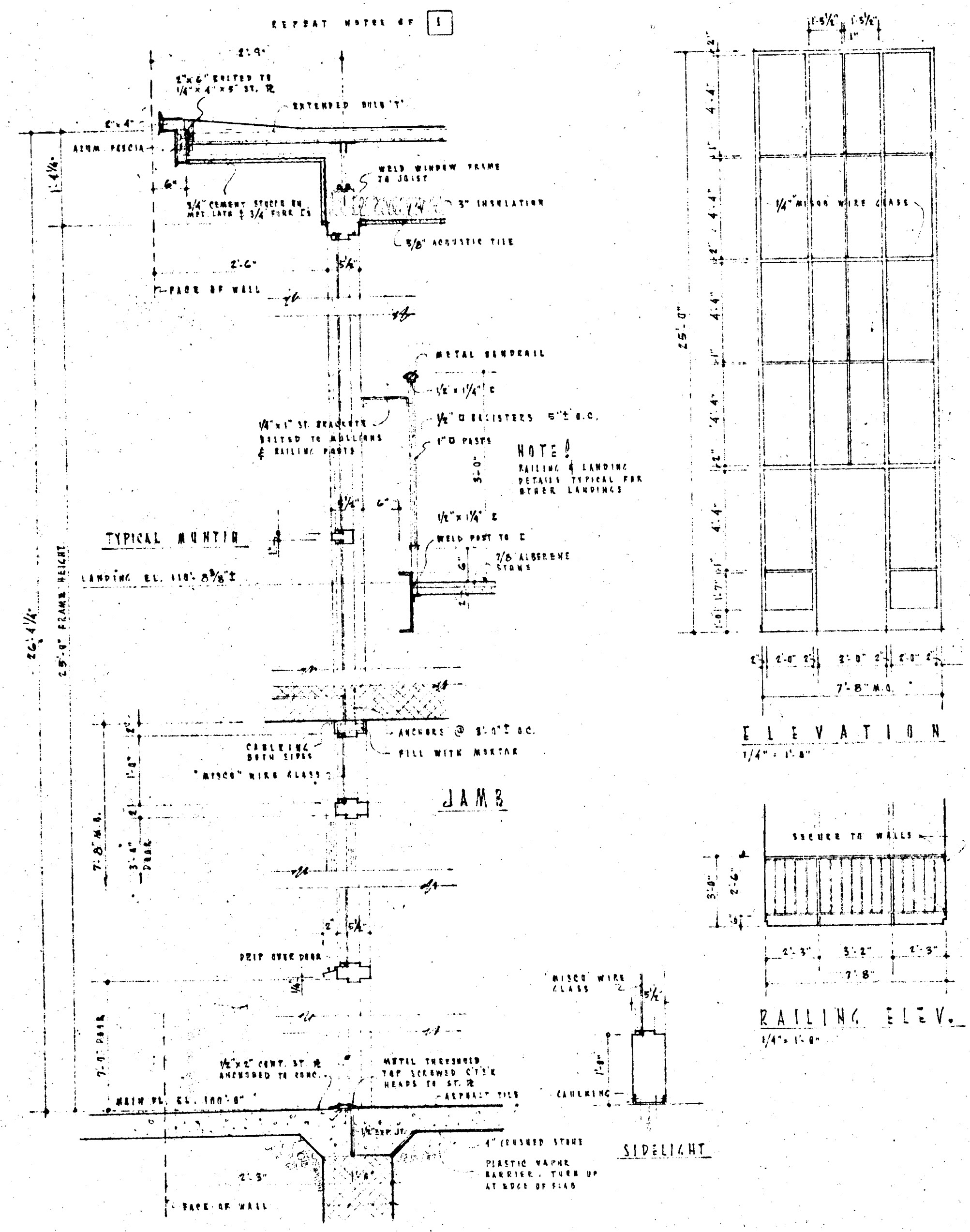
MULTI-PURPOSE ROOM 1
3/4" = 1'-0"



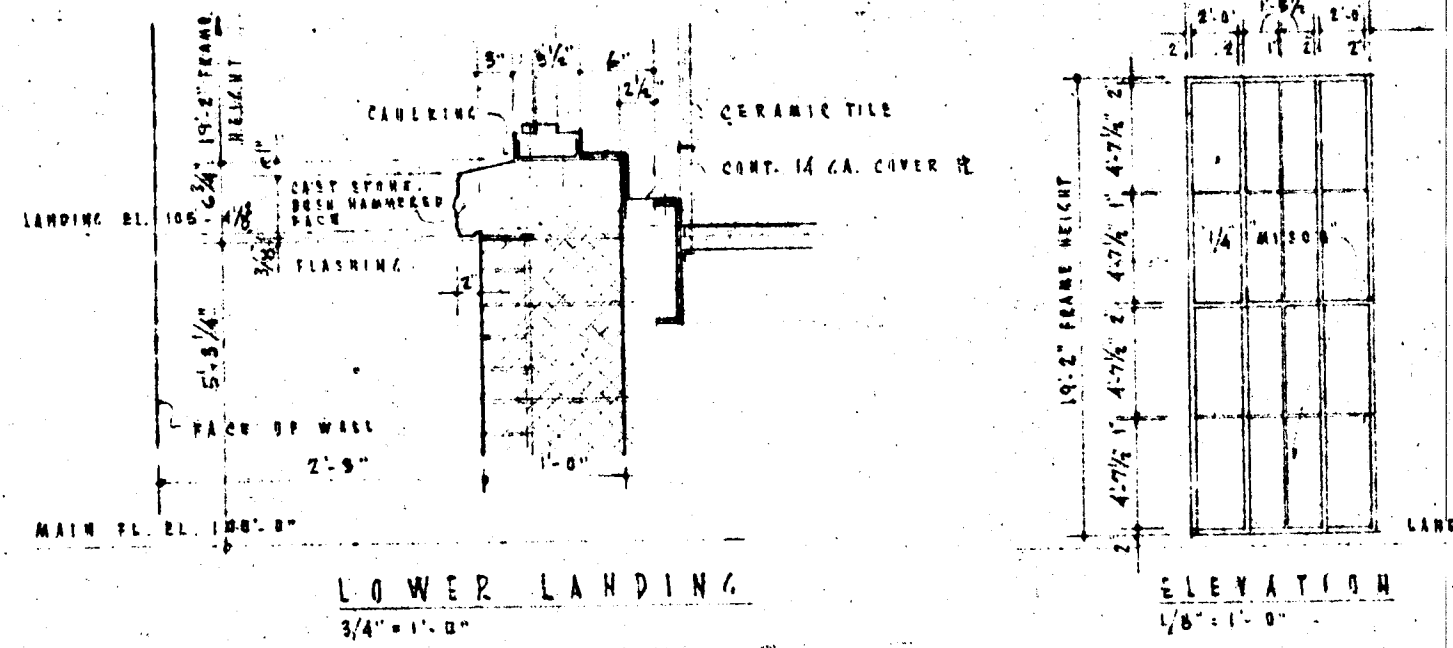
LOBBY & CORRIDOR 2
3/4" = 1'-0"



STAIRWELL PARAPET
3/4" = 1'-0"



SECONDARY ENTRANCE 3
3/4" = 1'-0"

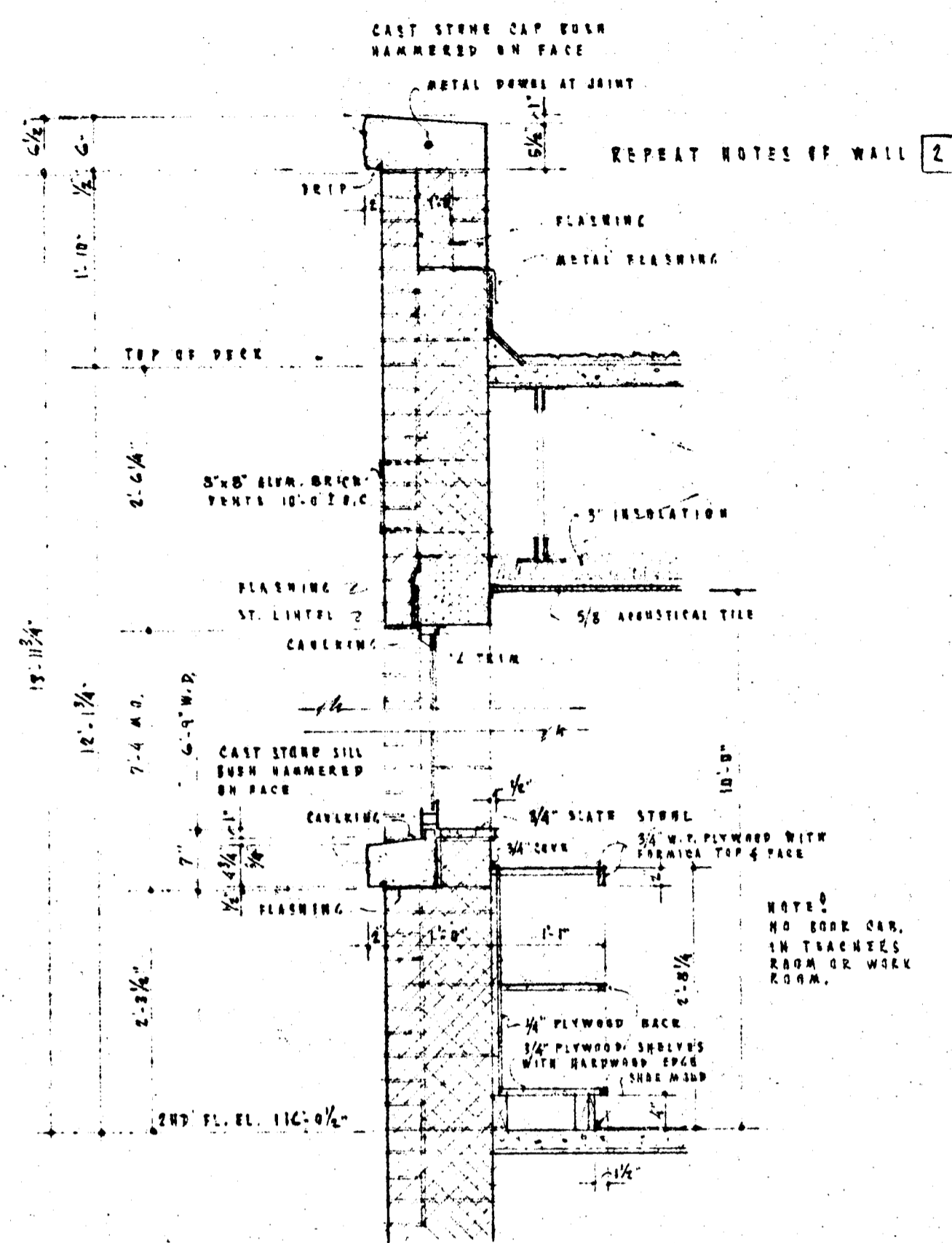


REAR-SECONDARY ENTRANCE 3A
3/4" = 1'-0"

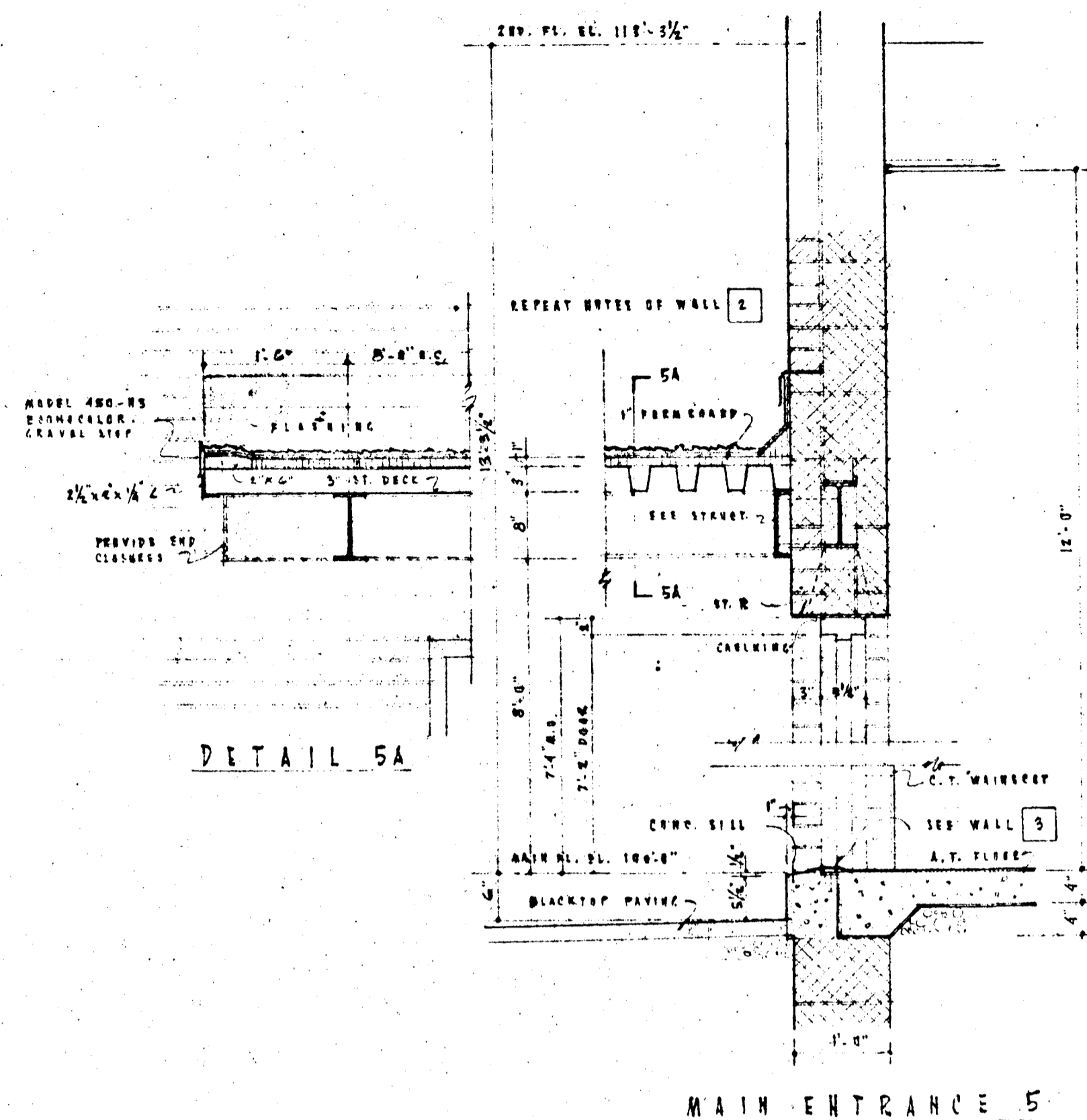
	ADDITION TO ELICOTT CITY ELEMENTARY SCHOOL ELICOTT CITY, MARYLAND		SHEET A 4 OF 7
	BOARD OF EDUCATION HOWARD COUNTY, MARYLAND JOHN E. YINGLING SUPT. OF SCHOOLS		
DATE APRIL 6, 1964	JOHANNES & MURRAY ASSOC. ARCHITECTS 855 PERCHING DRIVE SILVER SPRING, MARYLAND		REVISIONS
DRAWN JAT:MAR	J. G. WILSON, JR. STRUCTURAL ENGINEER R. L. LUTZ MECHANICAL ENGINEER SCHEIBLA & FULFORD ELECTRICAL ENGINEERS		
JOB NO. 517			

FEDERAL PROJECT MD-63-C-1102B13

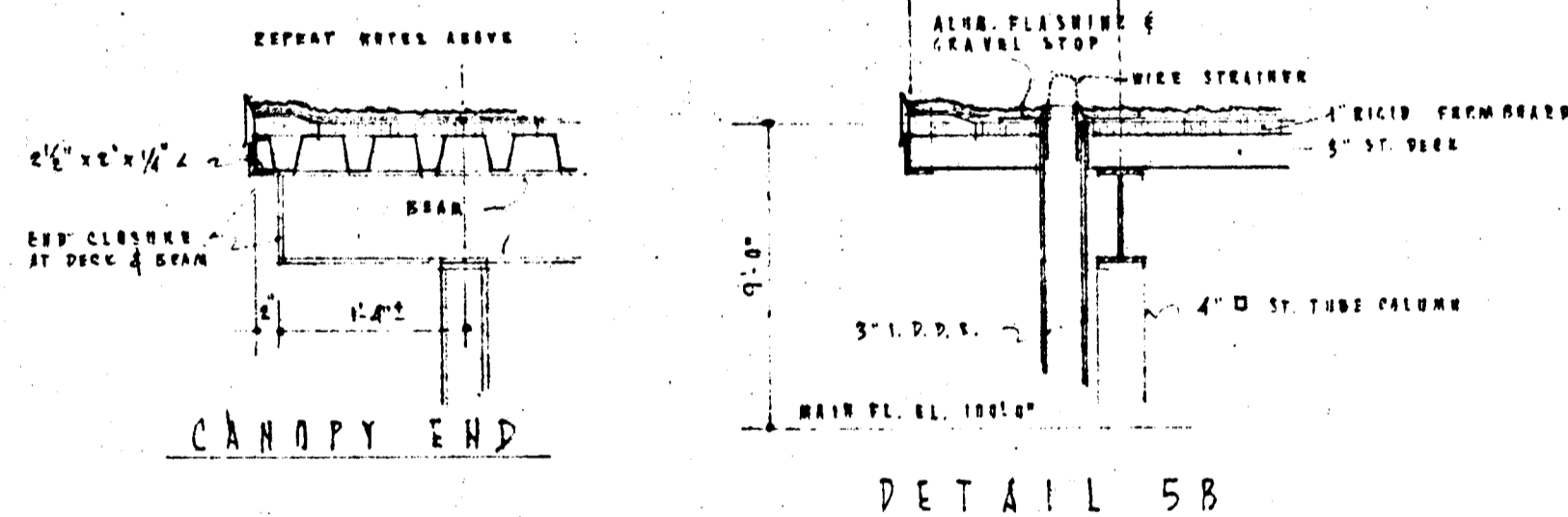
XXAD-64-A4



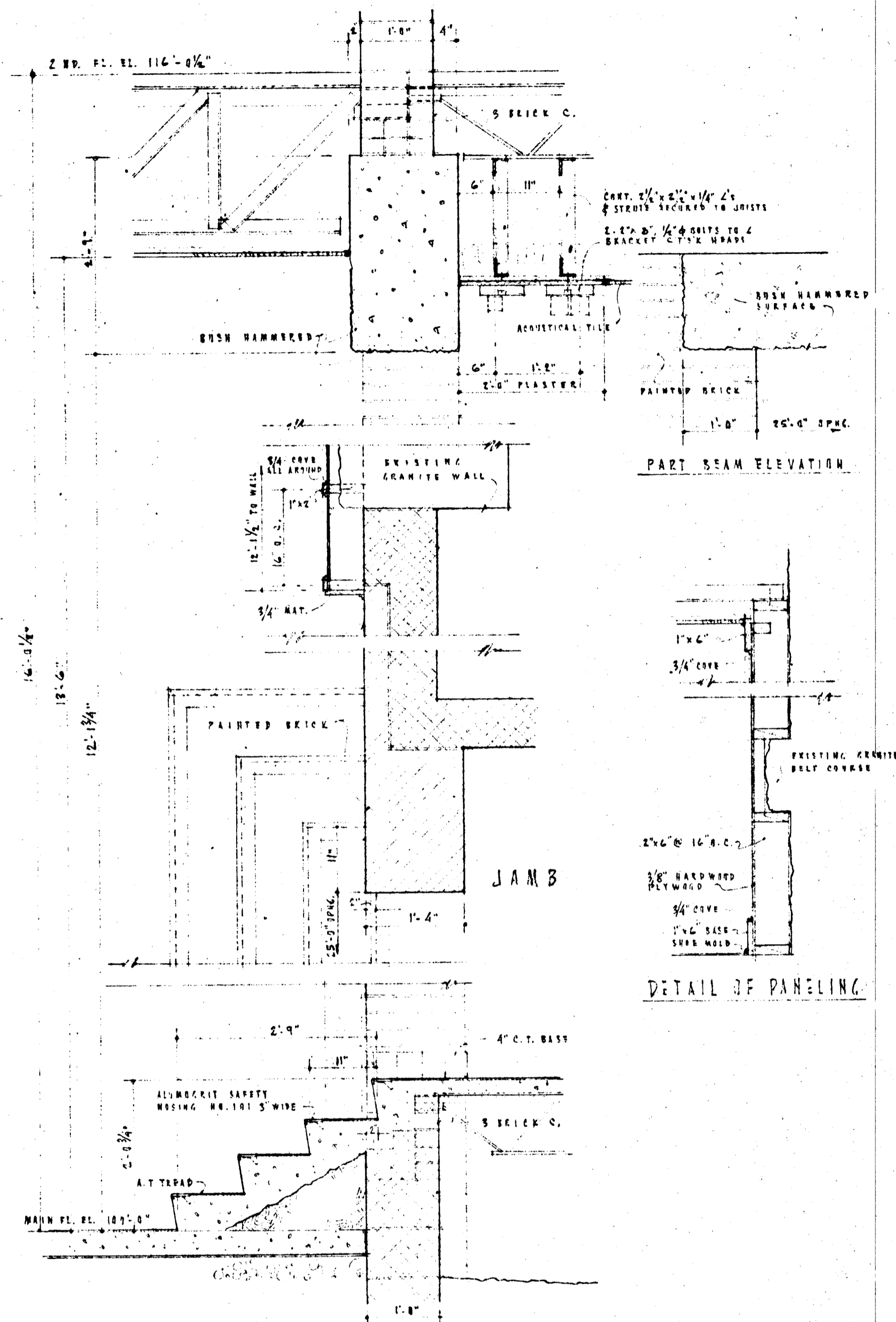
LIBRARY WINDOW 4
TEACHERS RM. & WORK ROOM SIMILAR



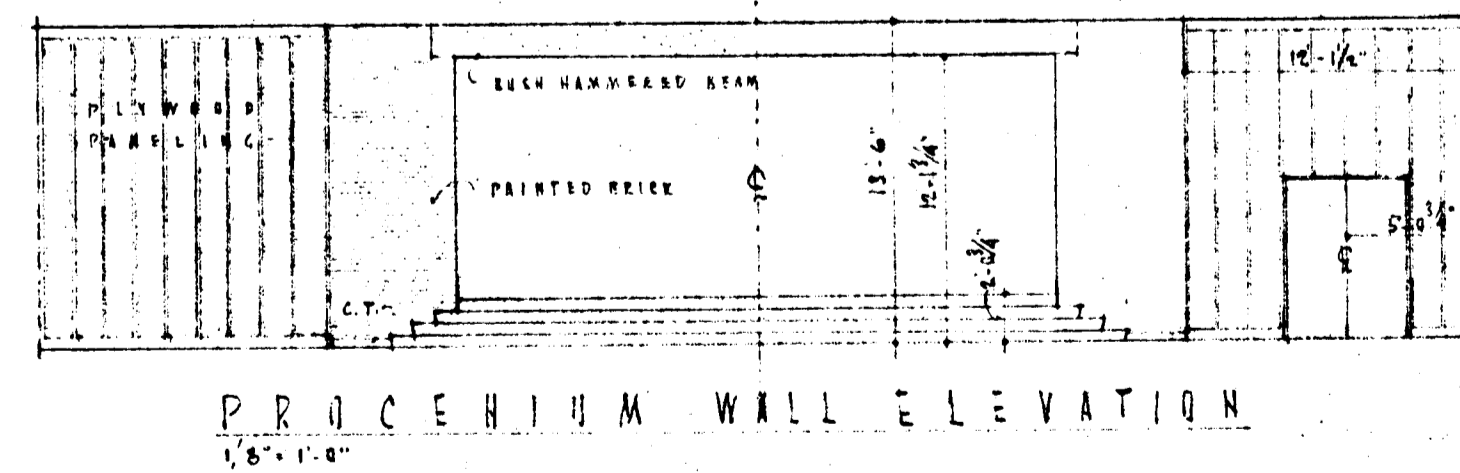
MAIN ENTRANCE 5



MAIN ENTRANCE & CANOPY 5



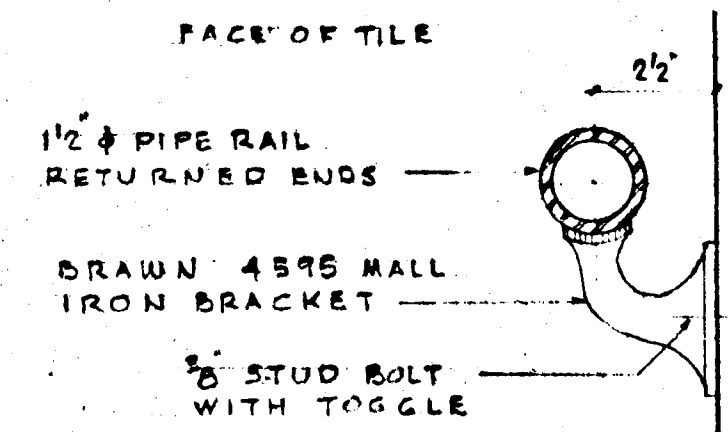
PROCENIUM 6



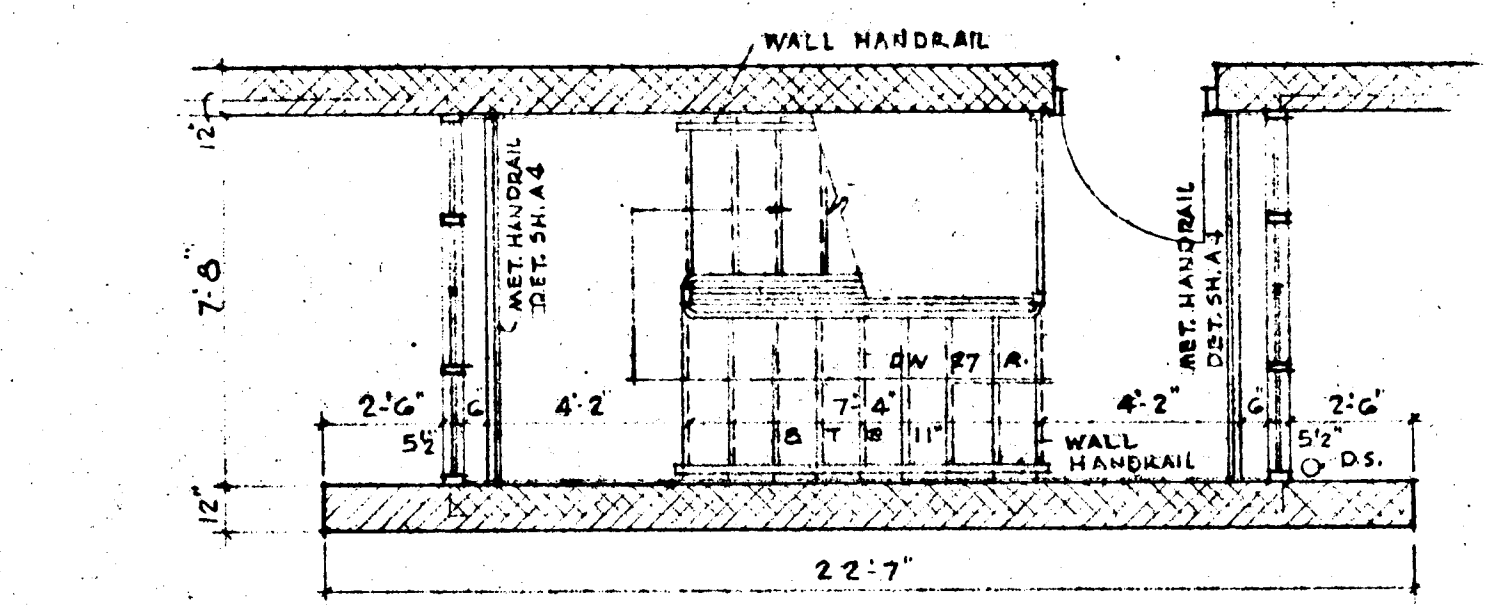
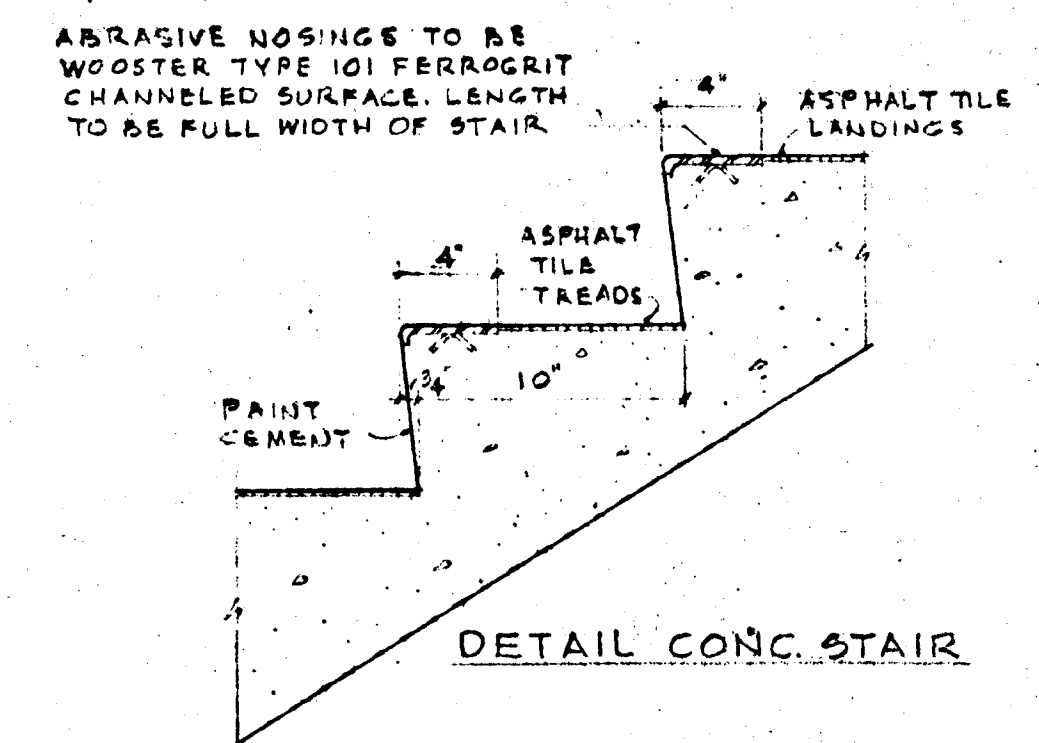
PROCENIUM WALL ELEVATION

	ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL ELLICOTT CITY - MARYLAND		SHEET A 5 OF 7
	BOARD OF EDUCATION HOWARD COUNTY, MARYLAND JOHN E. YINGLING SUPT. OF SCHOOLS		
DATE APRIL 6, 1964	JOHANNES & MURRAY ASSOC. ARCHITECTS 2800 PEEBLES DRIVE SILVER SPRING, MARYLAND		REVISIONS
DRAWN JETZMAR	J. G. WILSON, JR. STRUCTURAL ENGINEER R. L. LUTZ MECHANICAL ENGINEER SCHEIBLA & FULFORD ELECTRICAL ENGINEERS		
JOB NO. 517	FEDERAL PROJECT MD-63-C-1102313		XXAD-64-A5

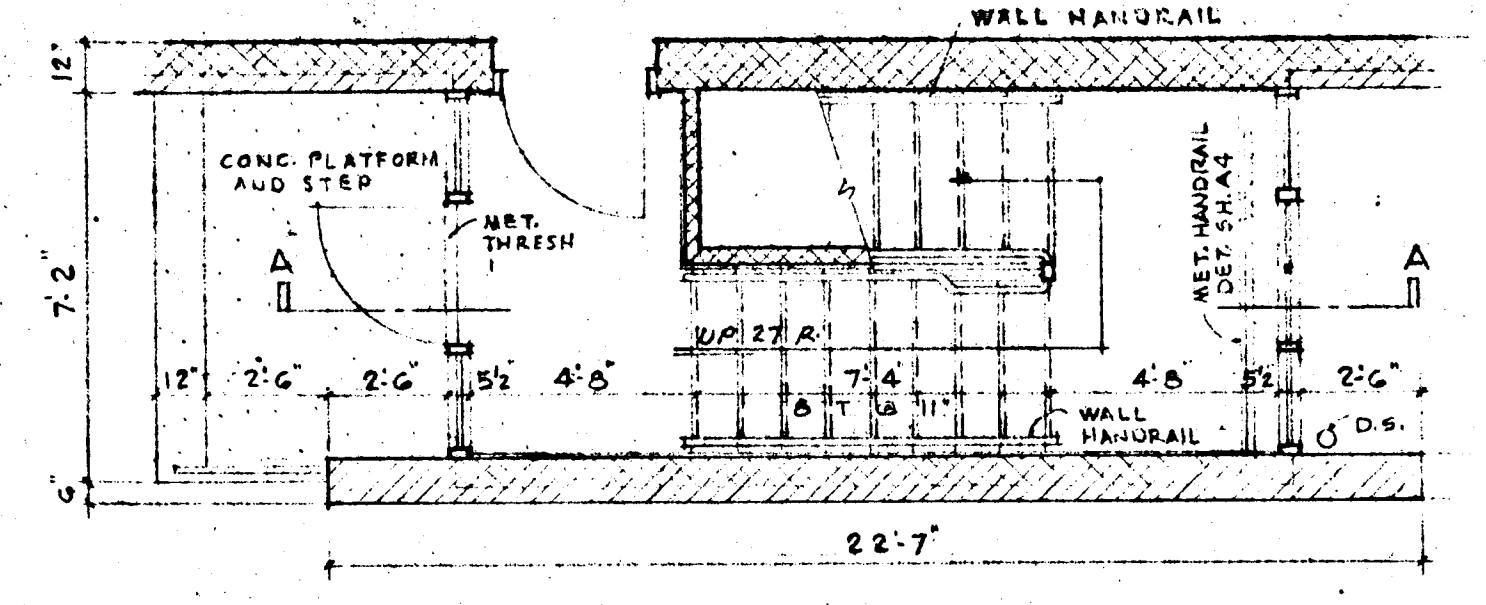
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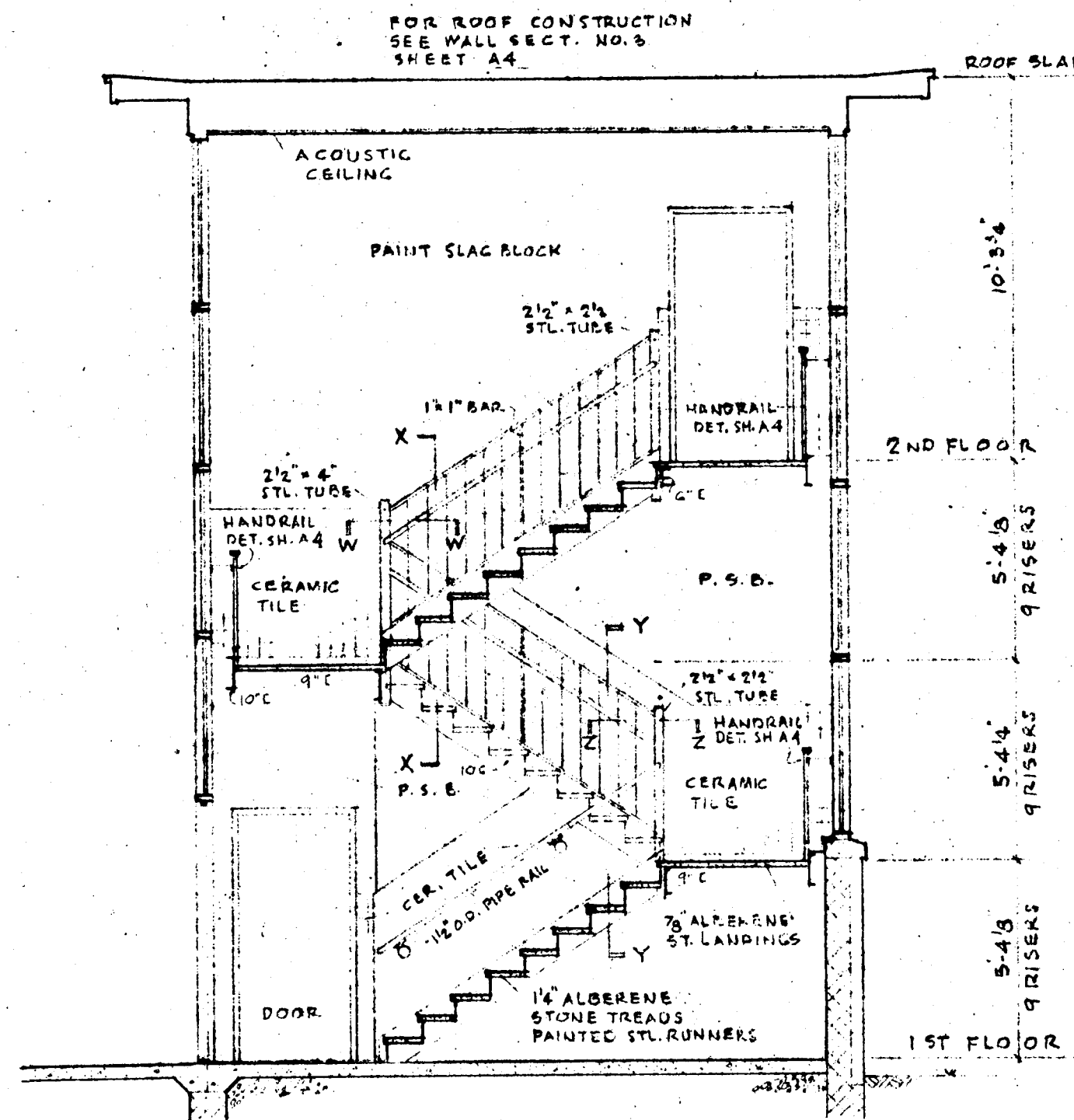
TYPICAL WALL
HANDRAIL BRACKET



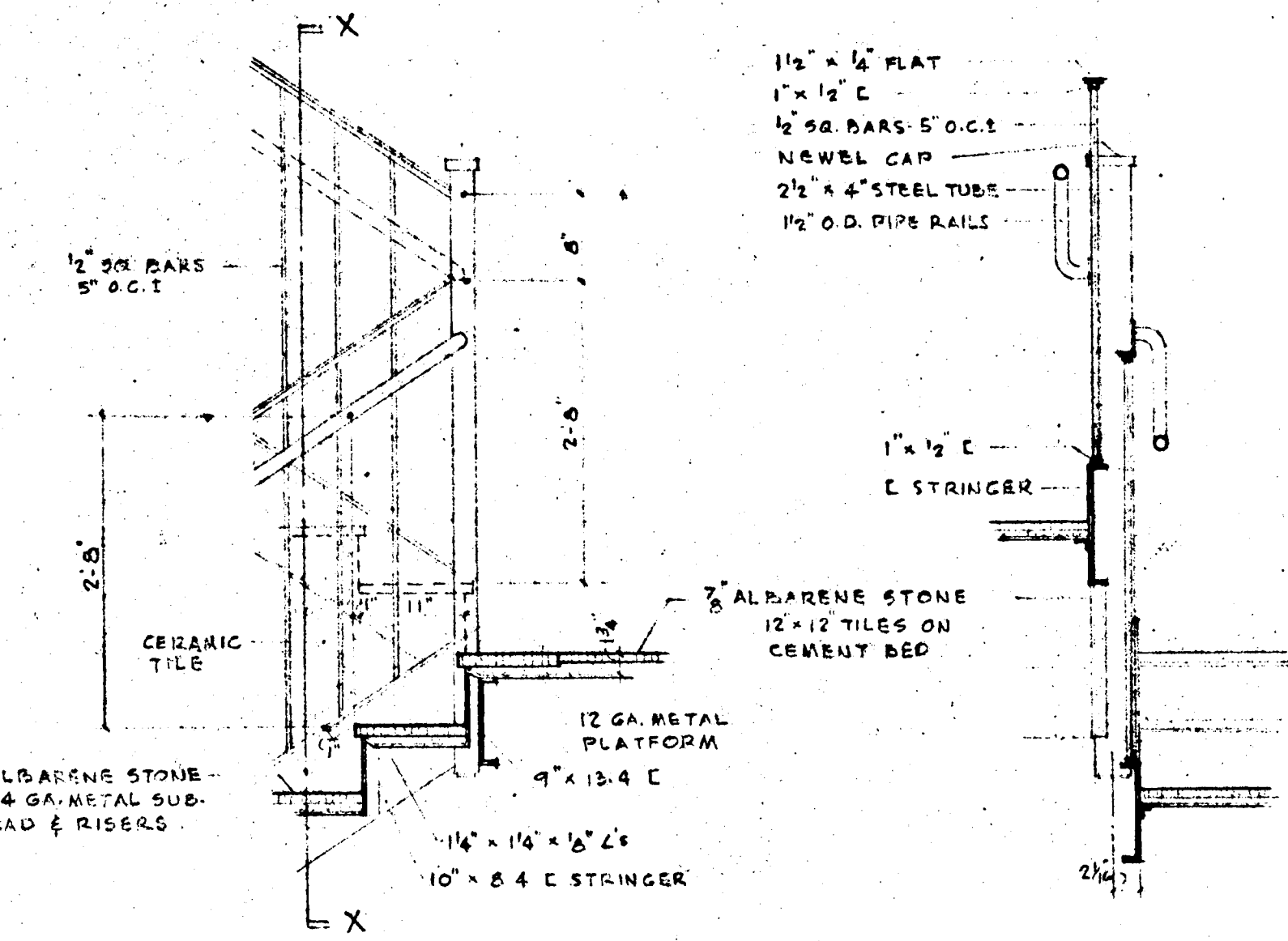
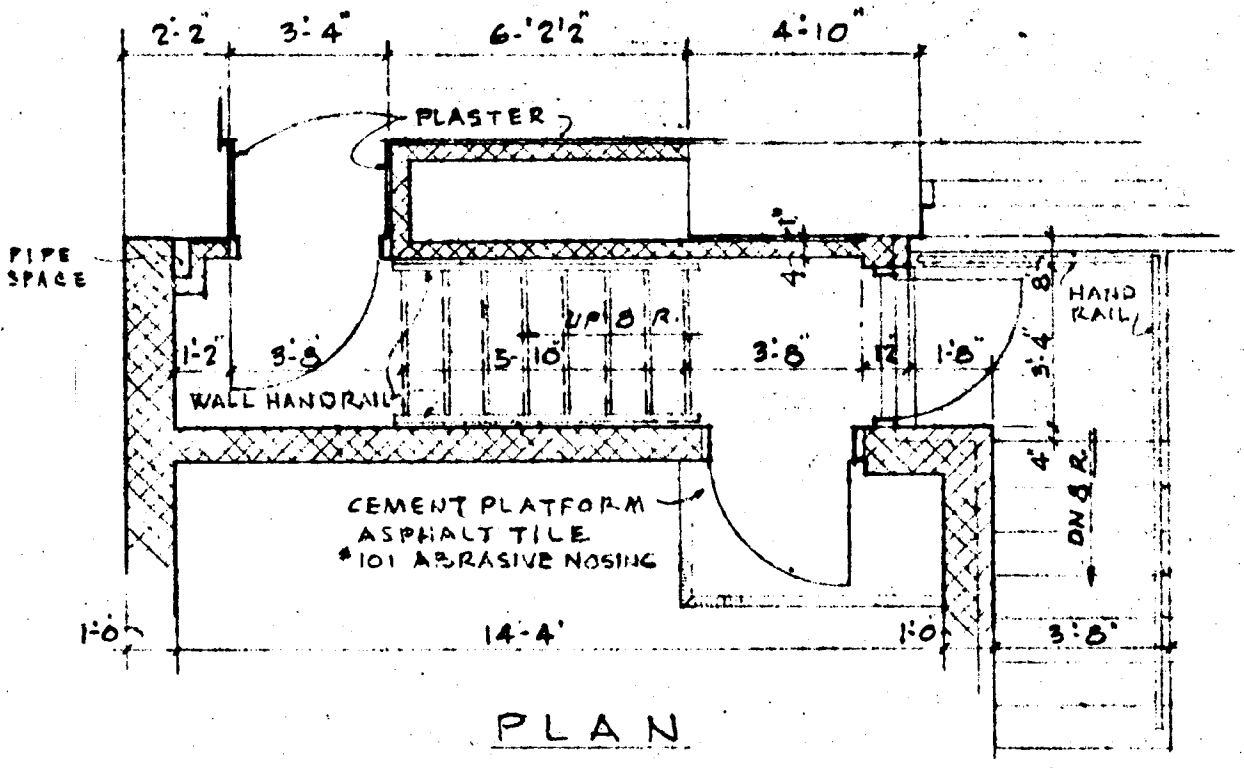
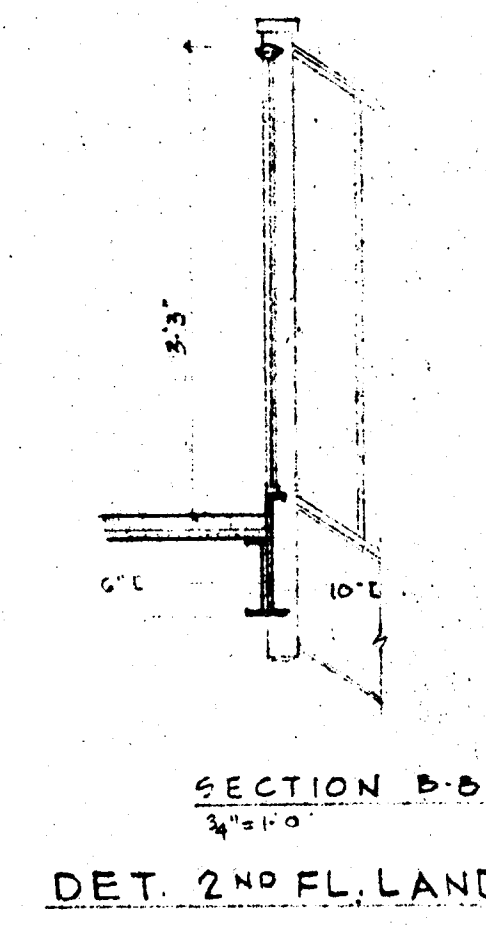
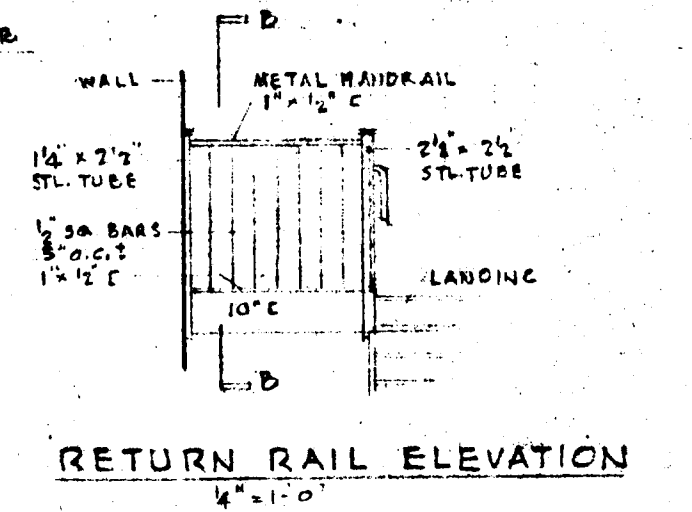
SECOND FLOOR



FIRST FLOOR
SCALE 1/4" = 1'-0"

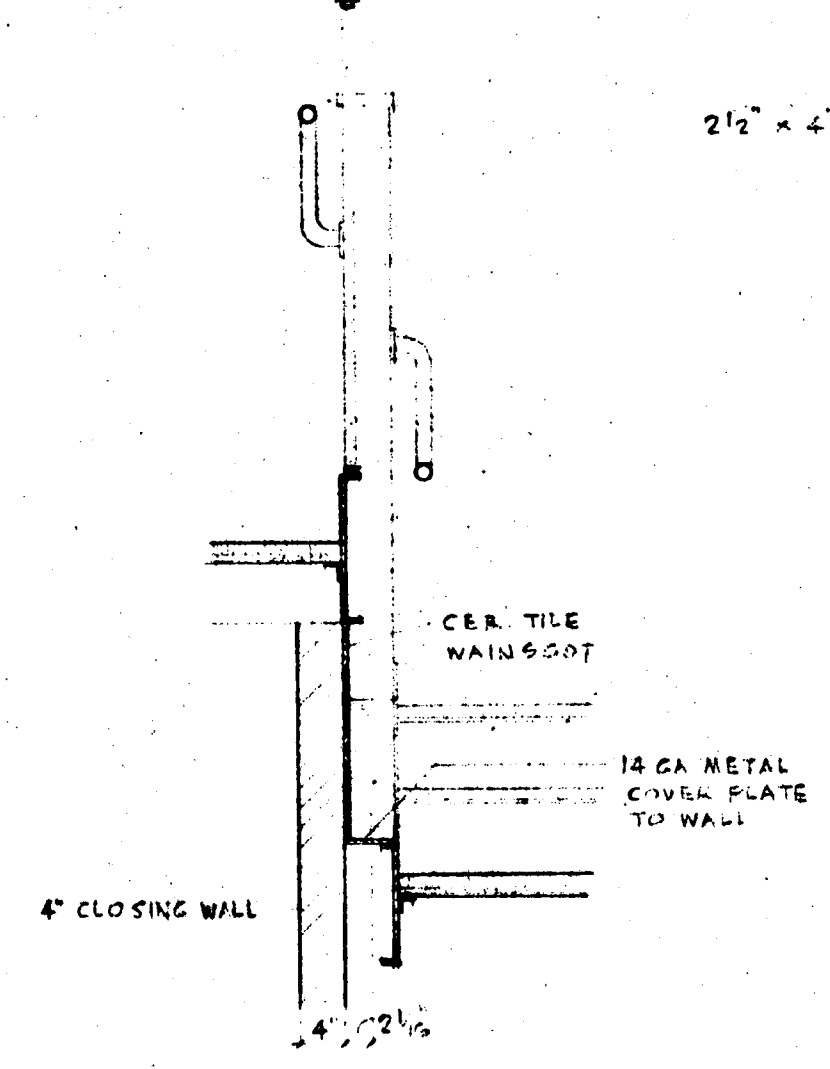


SECTION A-A
1/4" = 1'-0"

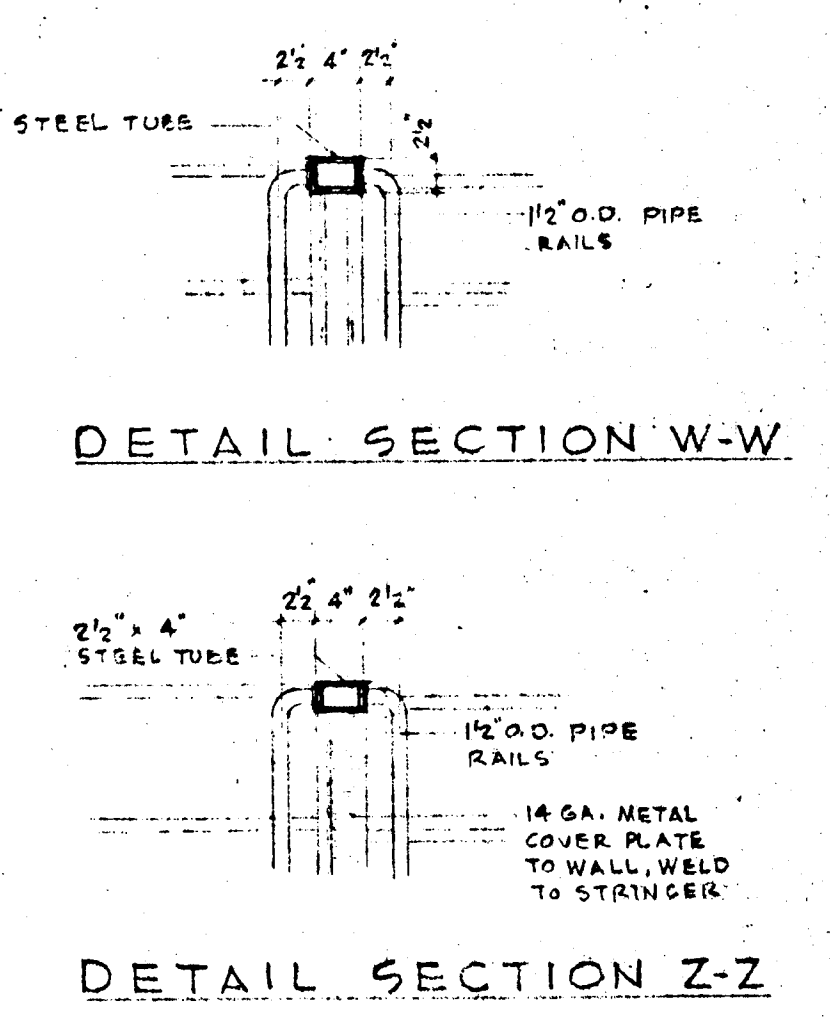


DETAIL ELEVATION

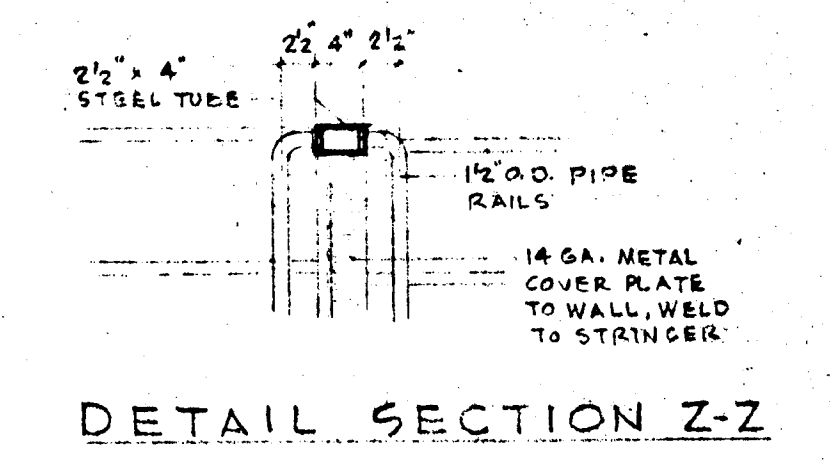
DETAIL SECTION X-X
SCALE 3/4" = 1'-0"



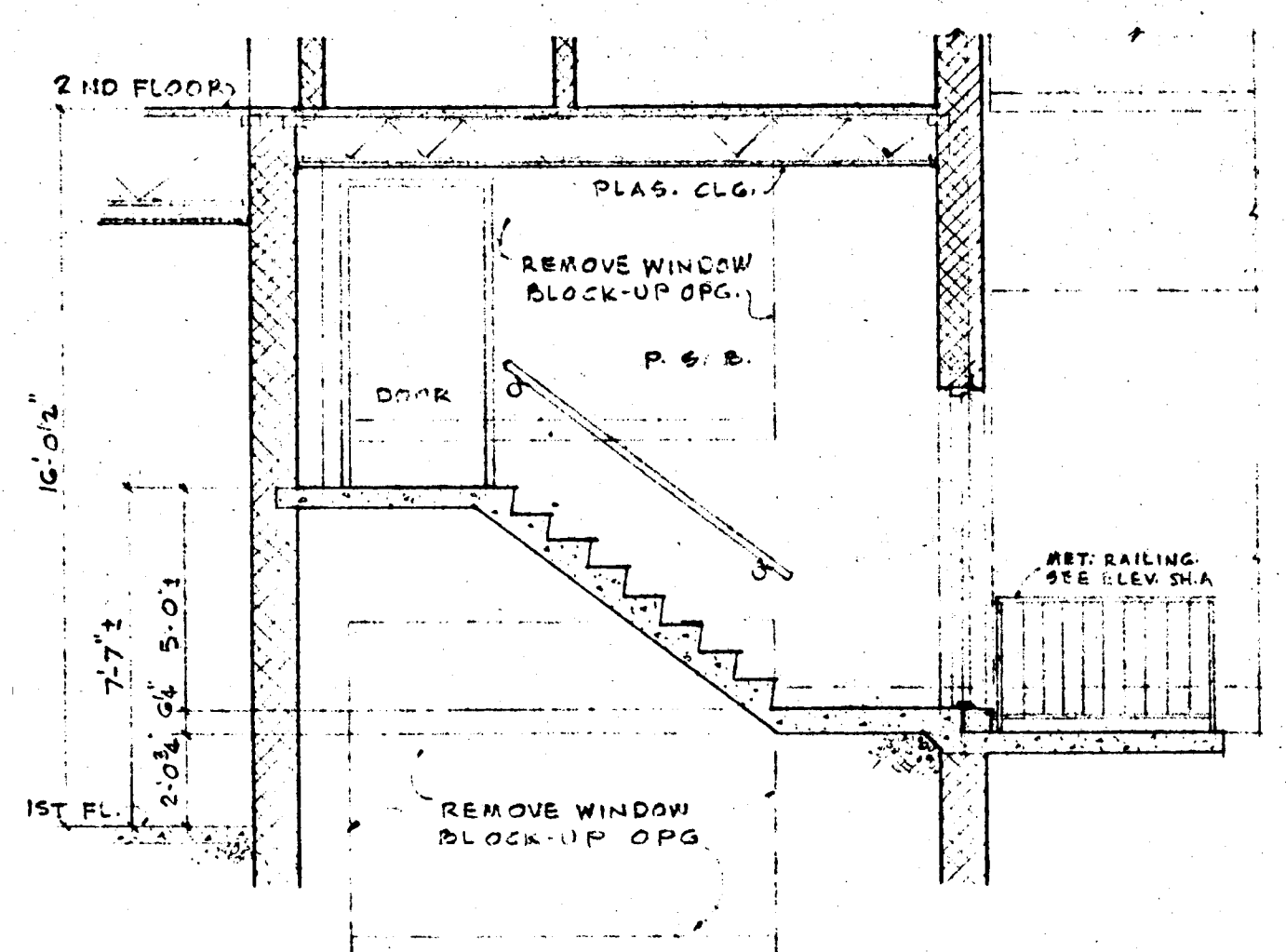
DETAIL SECTION Y-Y



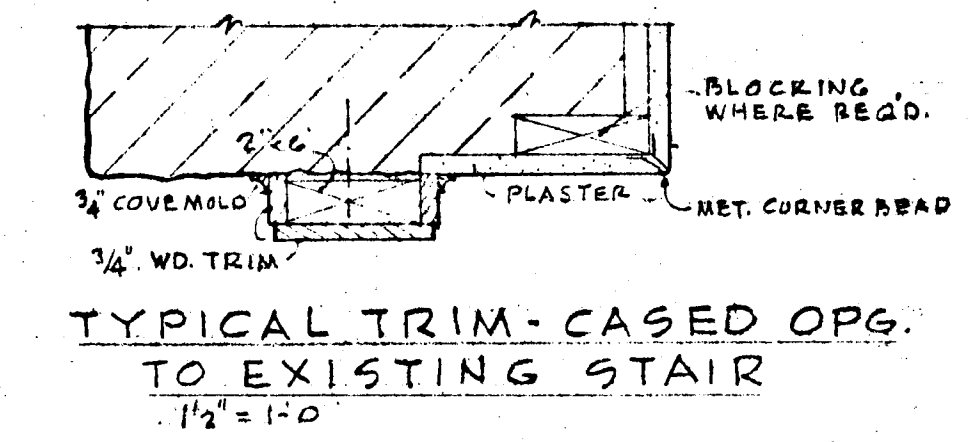
DETAIL SECTION W-W



DETAIL SECTION Z-Z



SECTION
STAGE STAIR
1/4" = 1'-0"

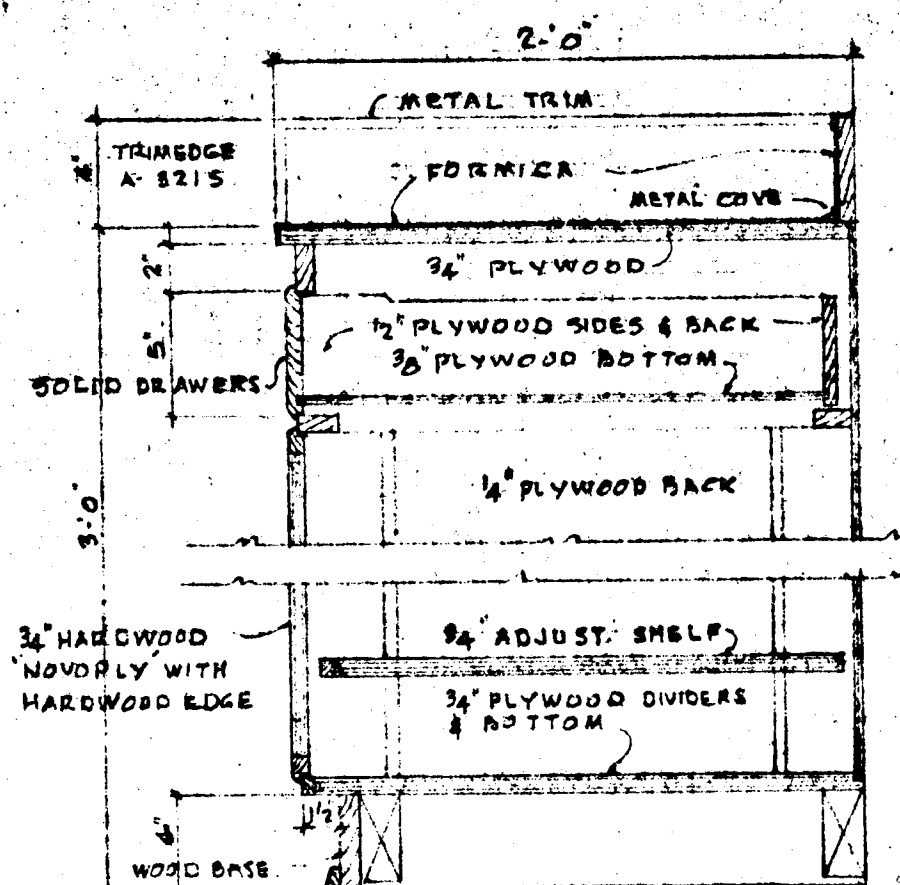


TYPICAL TRIM-CASED OPG.
TO EXISTING STAIR
1/4" = 1'-0"

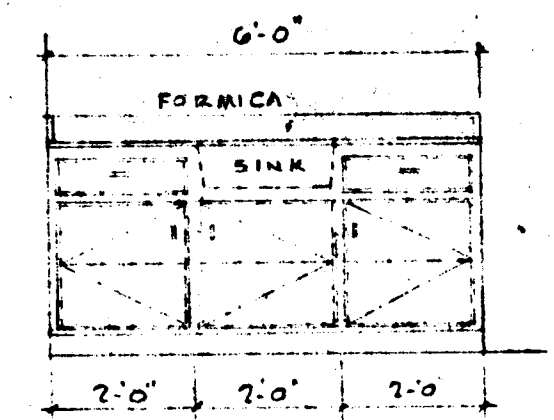
	ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL ELLICOTT CITY • MARYLAND		SHEET A-6 OF 7
	BOARD OF EDUCATION HOWARD COUNTY, MARYLAND JOHN E. YINGLING SUPT. OF SCHOOLS		
	JOHANNES & MURRAY ASSOC. ARCHITECTS 355 PERSHING DRIVE SILVER SPRING, MARYLAND J. G. WILSON, JR. STRUCTURAL ENGINEER R. L. LUTZ MECHANICAL ENGINEER SCHENKEL & FULFORD ELECTRICAL ENGINEERS		
DATE APRIL 8, 1964	DRAWN D.W.	CHECKED S.17	JOB NO. 517
FEDERAL PROJECT MD-63-C-1102 B13			

XXCE-64-A6

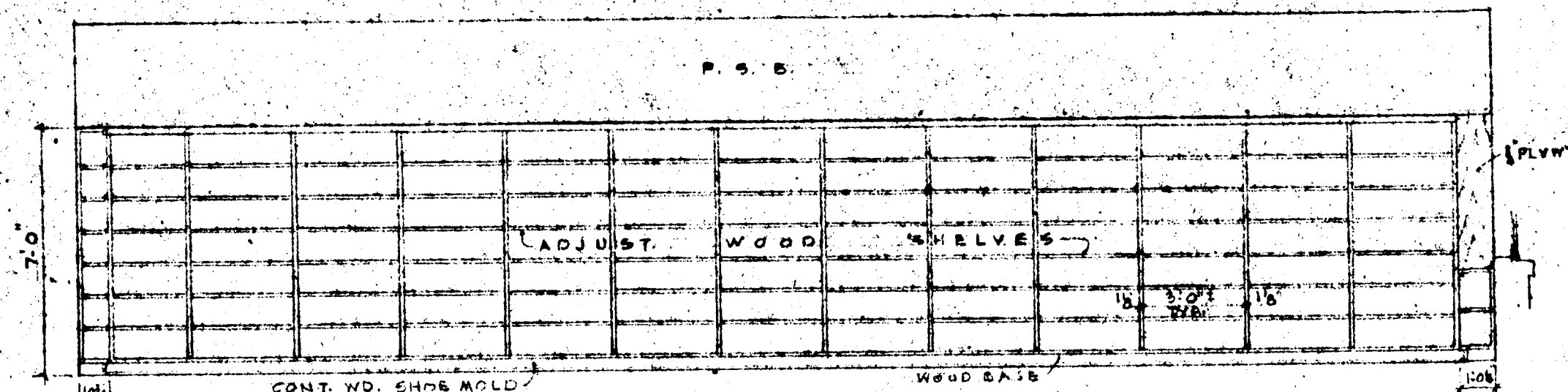
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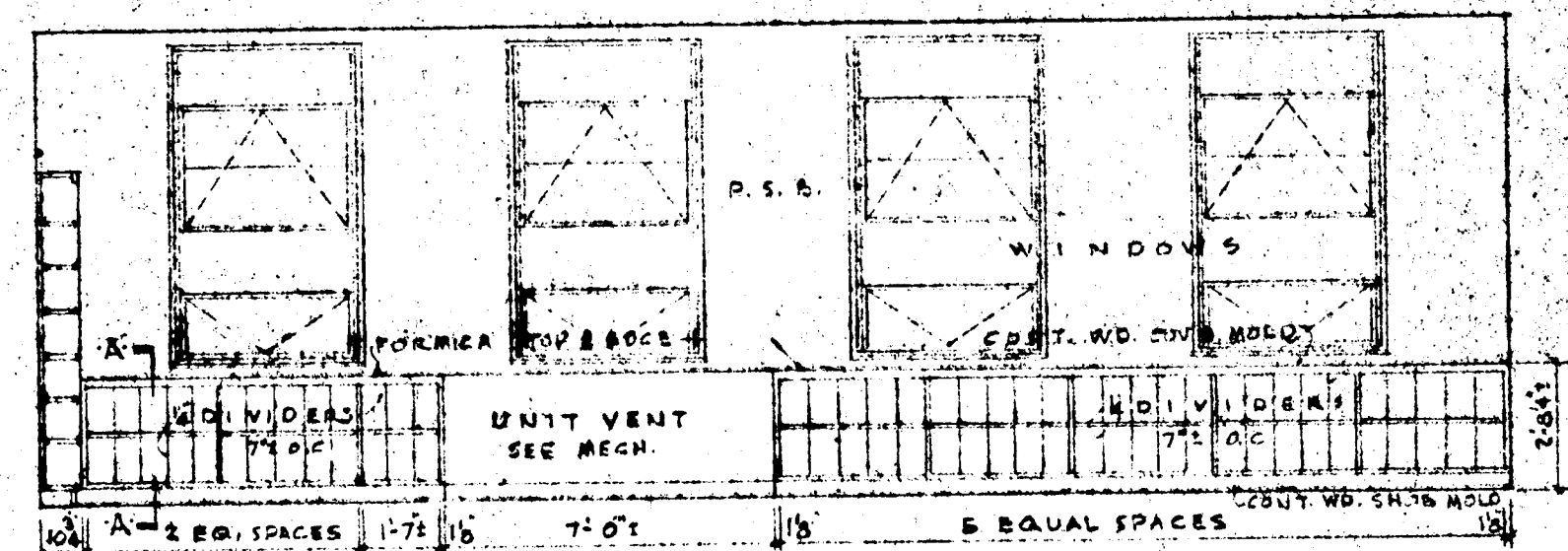
SECTION-WORK RM. COUNTER
1/2" = 1'-0"



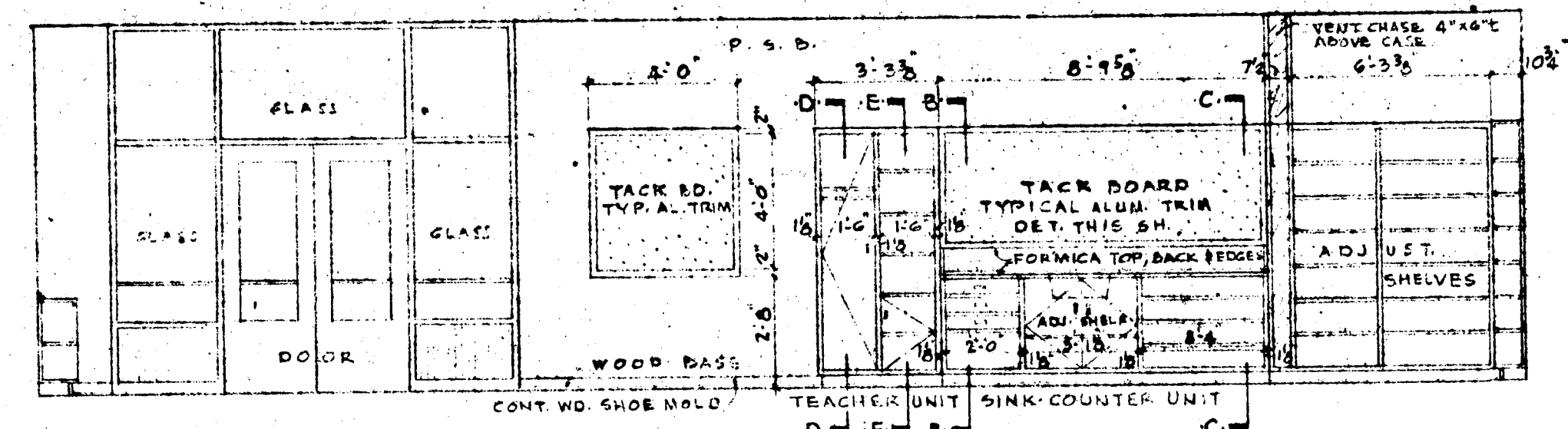
ELEVATION WORK RM. COUNTER
3/8" = 1'-0"



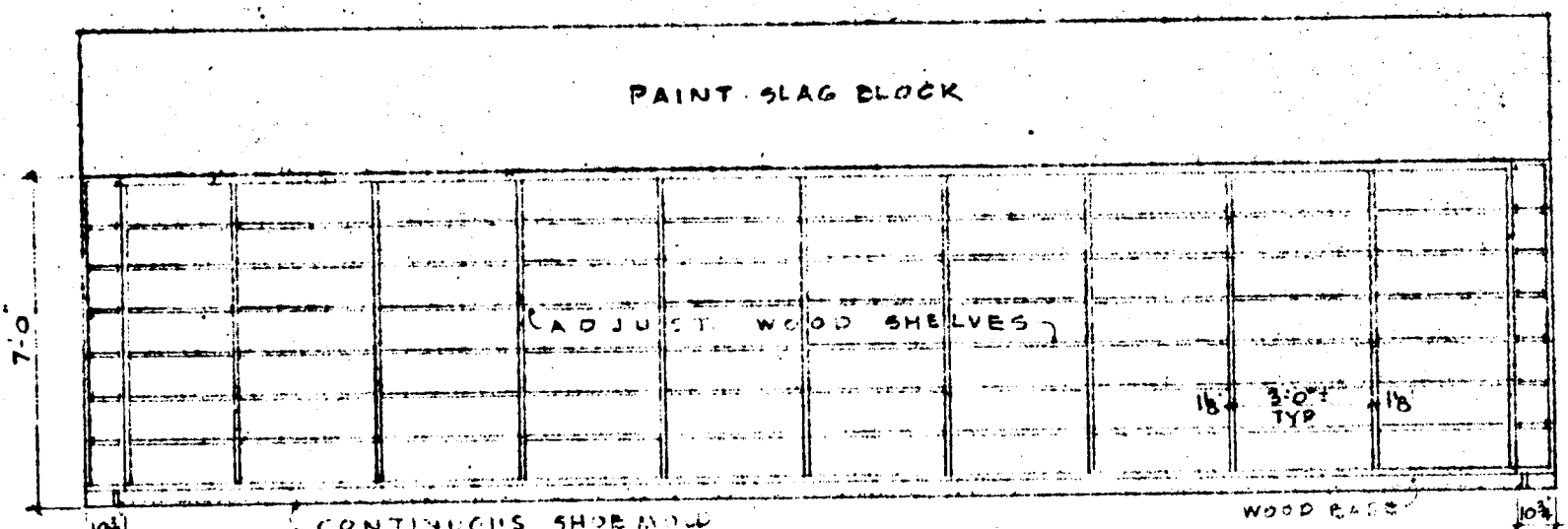
ELEVATION 1



ELEVATION 2



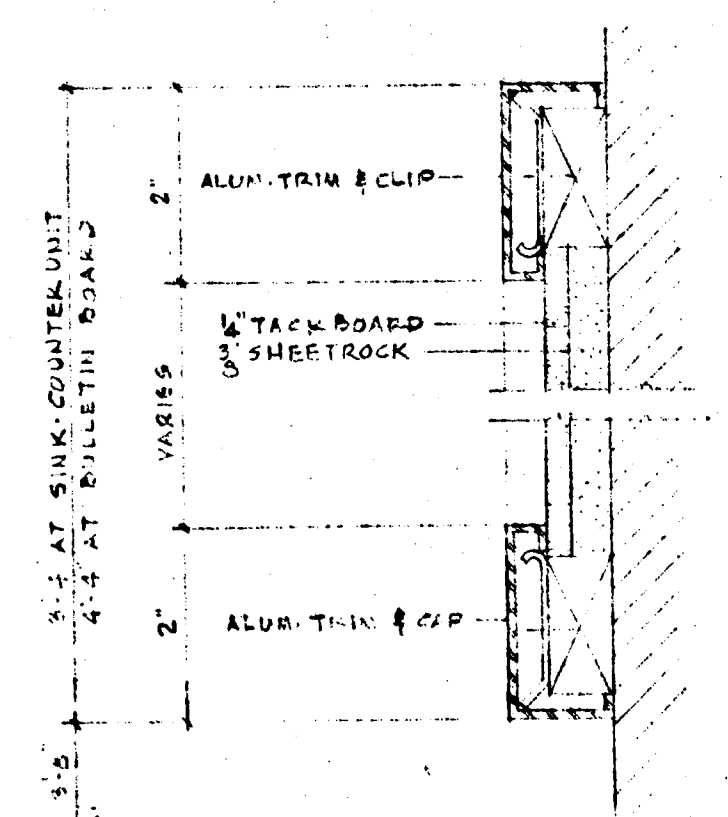
ELEVATION 3
SCALE 1/4" = 1'-0"



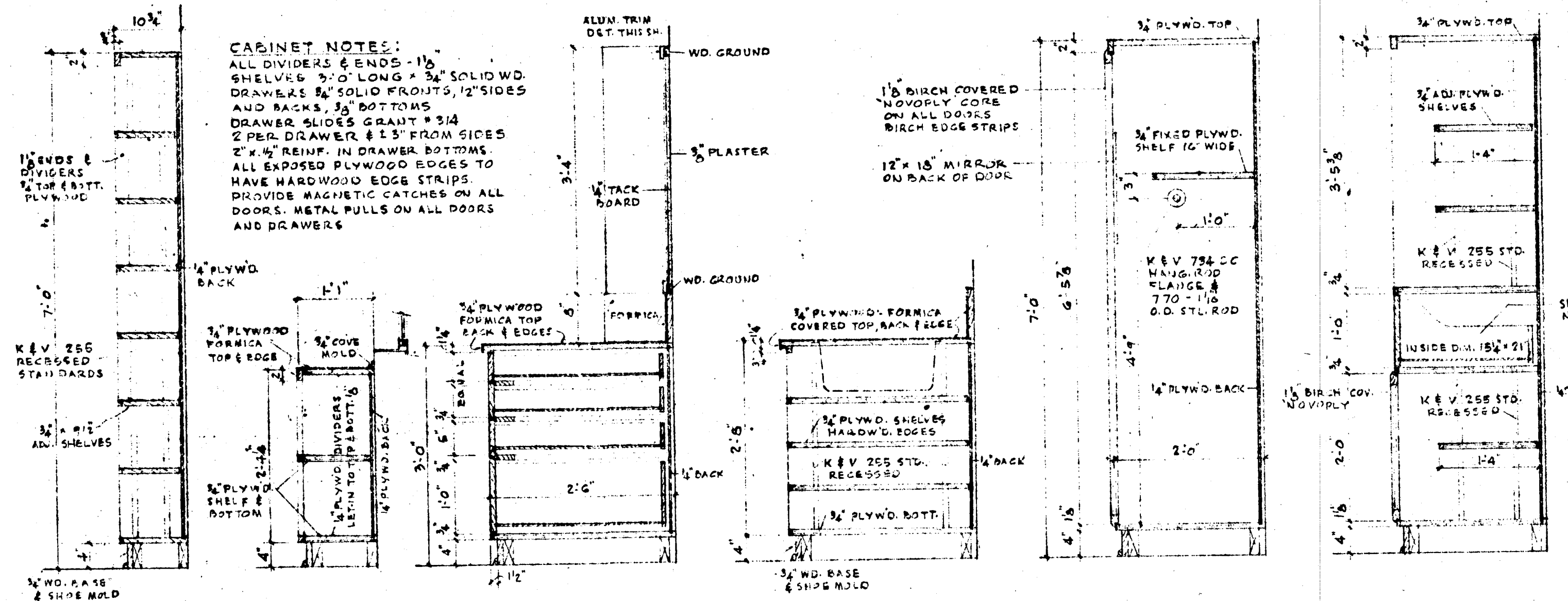
ELEVATION 4

LIBRARY ELEVATIONS

NOTE: FOR PLAN SEE SHEET NO. A-2

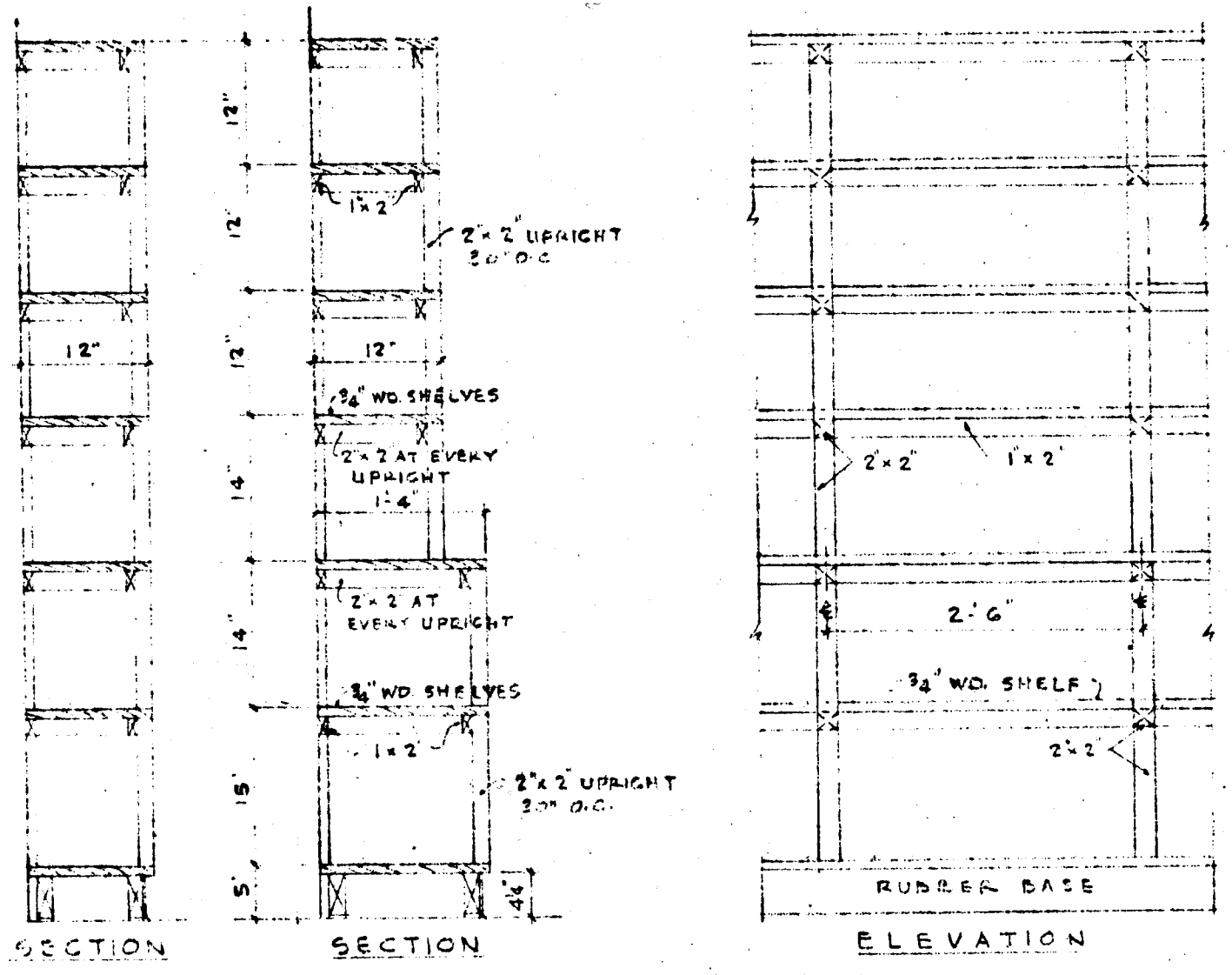


TYPICAL TACKBOARD
ONE-HALF F.S.

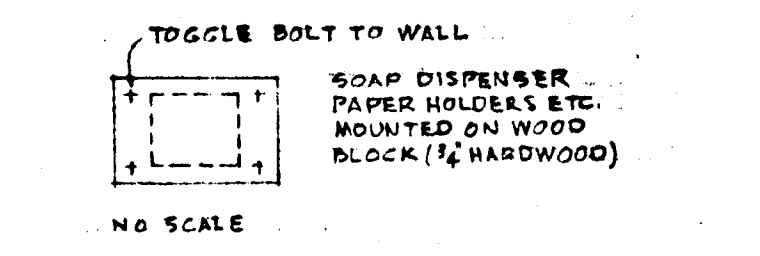


TYPICAL SECTION A SECTION B SECTION C SECTION D SECTION E
SCALE 3/8" = 1'-0"

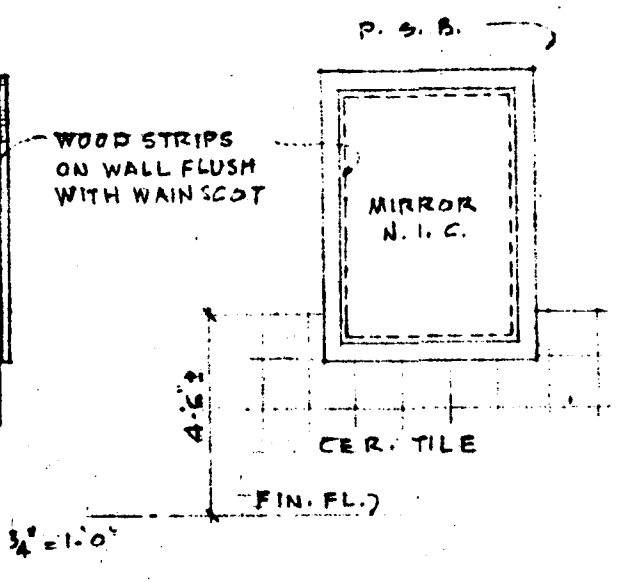
CABINET NOTES:
ALL DIVIDERS & ENDS - 1 1/2"
SHELVES 3'0" LONG x 3/4" SOLID WD.
DRAWERS 3/4" SOLID FRONTS, 1/2" SIDES
AND BACKS, 3/4" BOTTOMS
DRAWER SLIDES GRANT #314
2 PER DRAWER & 1.5" FROM SIDES
2" x 4" REINF. IN DRAWER BOTTOMS
ALL EXPOSED PLYWOOD EDGES TO
HAVE HARDWOOD EDGE STRIPS
PROVIDE MAGNETIC CATCHES ON ALL
DOORS. METAL PULLS ON ALL DOORS
AND DRAWERS



TYPICAL SHELVING
3/8" = 1'-0"
SEE FLOOR PLANS FOR LOCATION



TYPICAL ACCESSORY MOUNTING IN TOILET RMs.

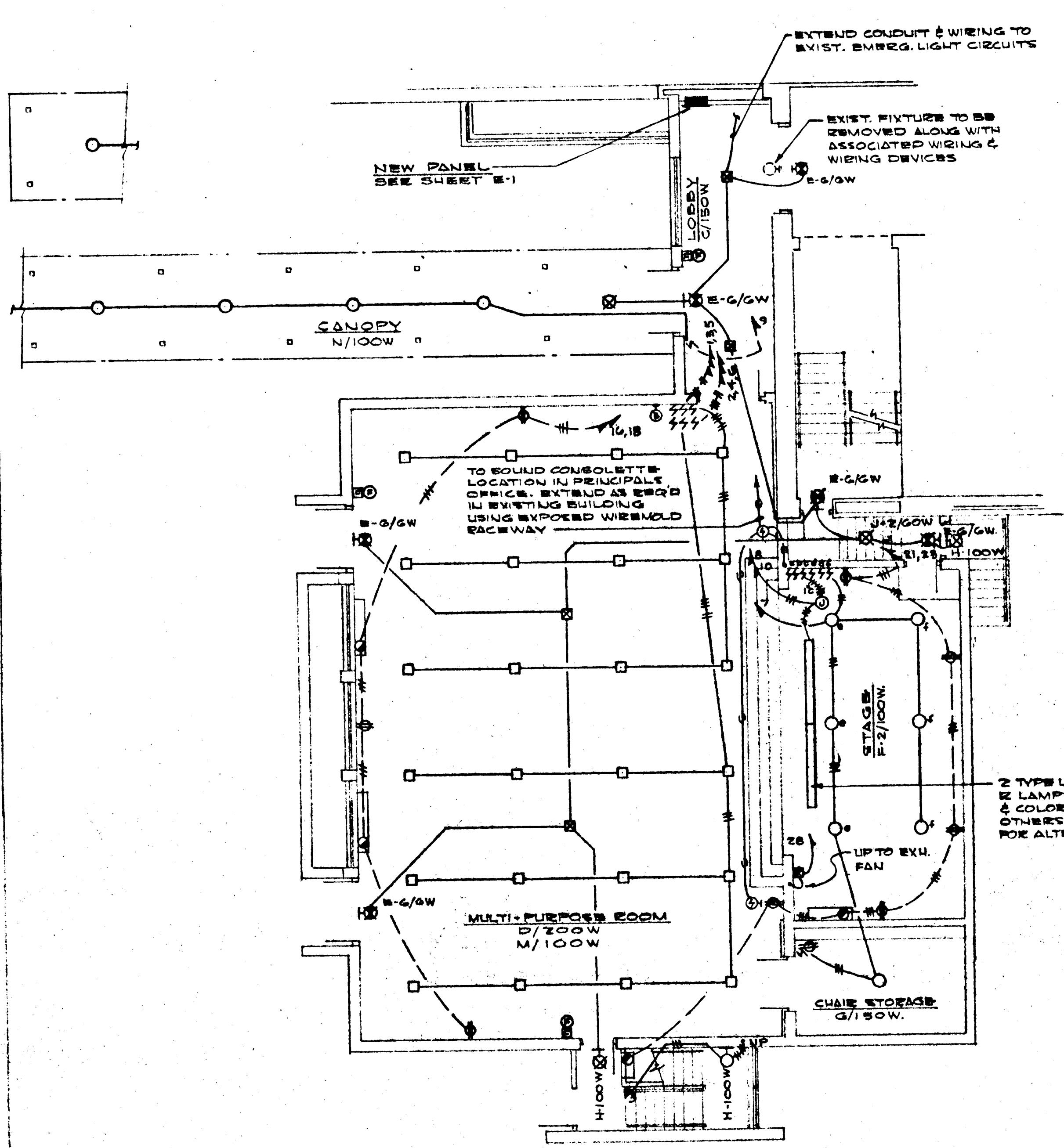


FEDERAL PROJECT MD-63-C-1102B13

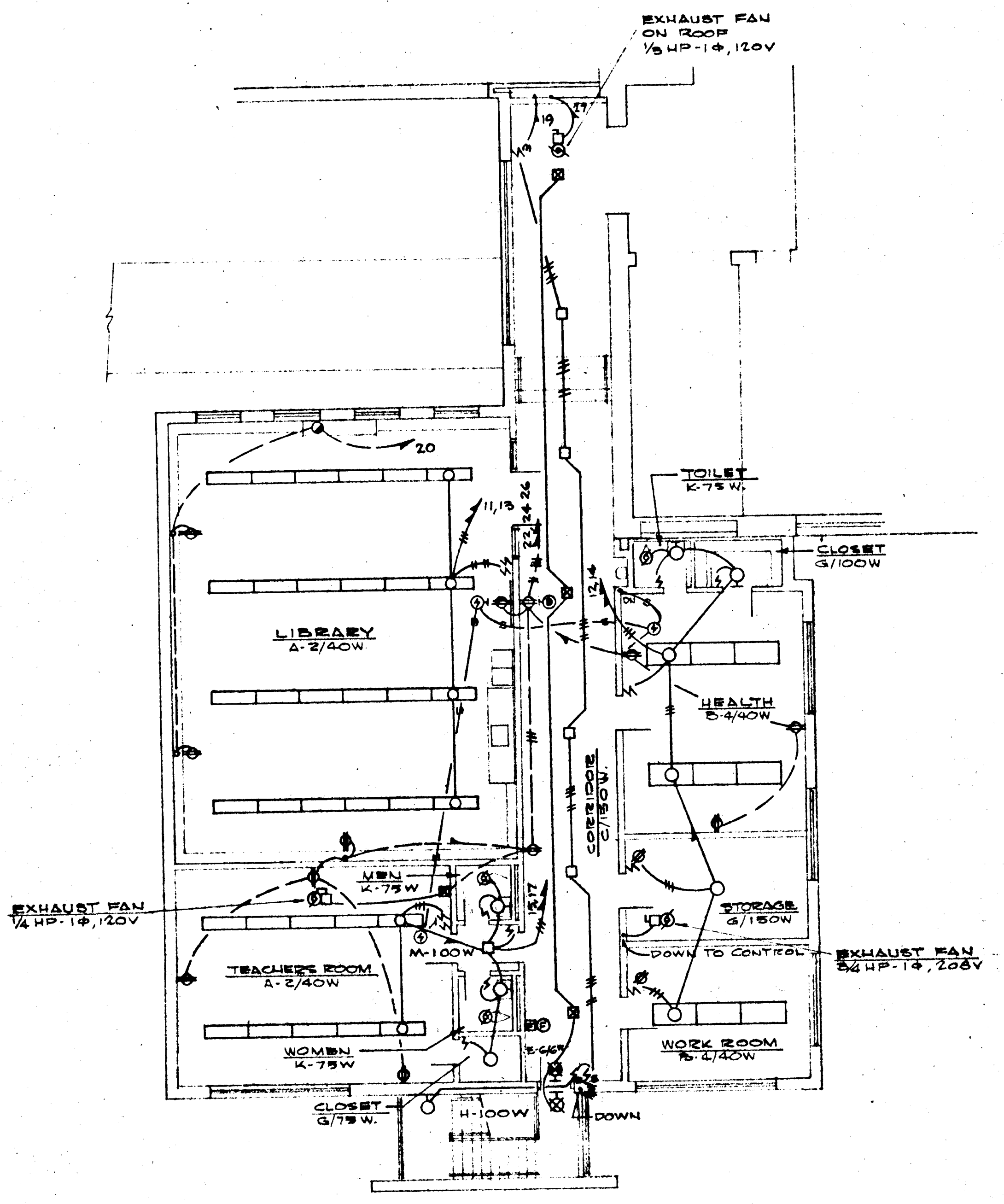
	ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL		SHEET A-7 OF 7
	ELLICOTT CITY - MARYLAND		
	BOARD OF EDUCATION HOWARD COUNTY, MARYLAND JOHN E. YINGLING SUPT. OF SCHOOLS		
	DATE APRIL 8, 1964	JOHANNES & MURRAY ASSOC. ARCHITECTS 855 PUGHING DRIVE SILVER SPRING, MARYLAND	
DRAWN [] CHECKED []	J. S. WILSON, JR. STRUCTURAL ENGINEER R. L. LUTZ MECHANICAL ENGINEER SCHEIBLA & FULFORD ELECTRICAL ENGINEERS		
REVISIONS	JOB NO. 517		

XXAD-64-A7

#762



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"



SECOND FLOOR PLAN
SCALE 1/8" = 1'-0"

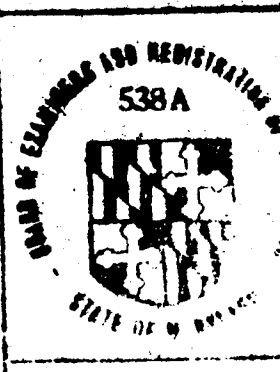
FEDERAL PROJECT MD-63-C-1102 B13

ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL
ELLICOTT CITY, MARYLAND

BOARD OF EDUCATION HOWARD COUNTY, MARYLAND
JOHN E. YINGLING SUPT. OF SCHOOLS

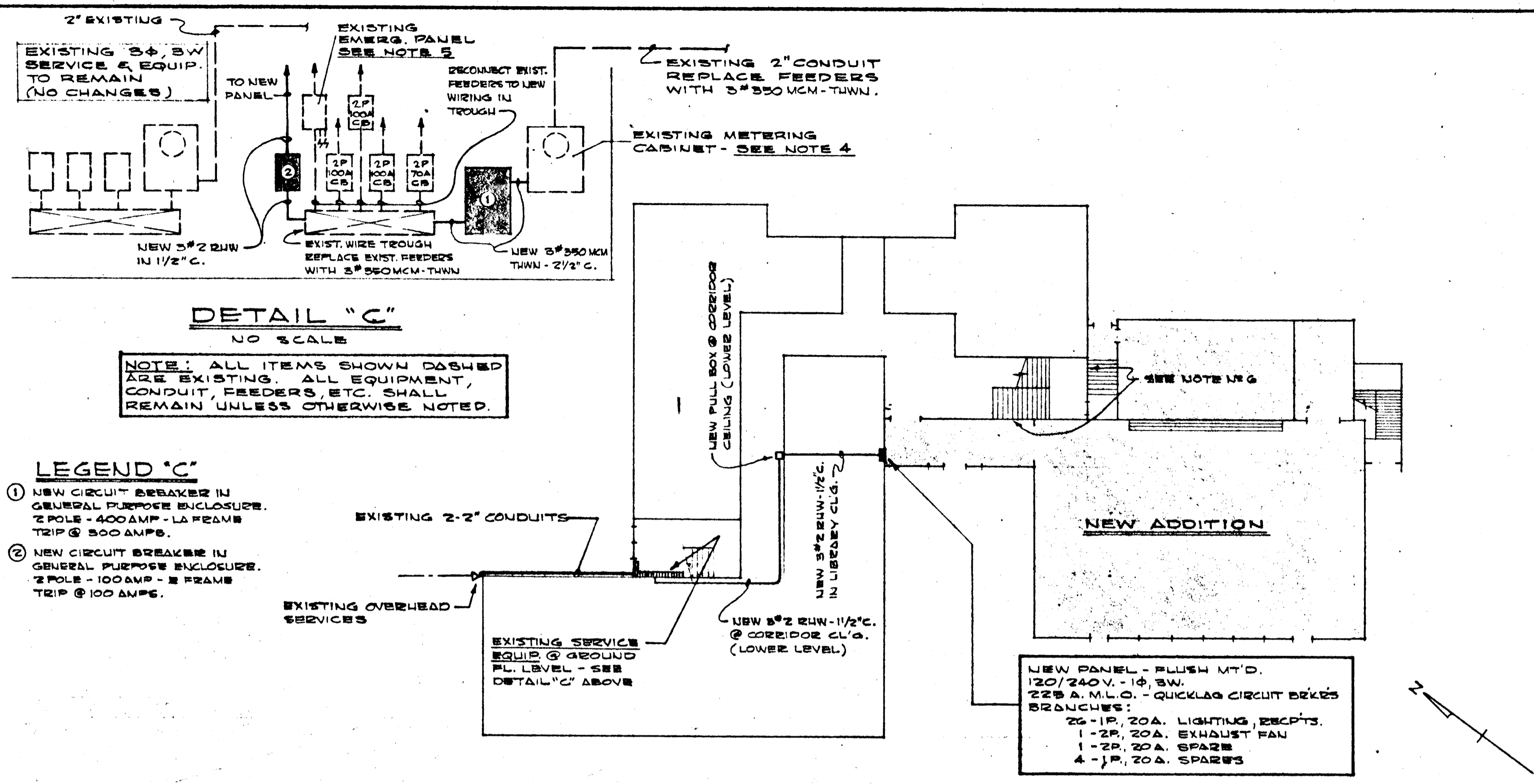
APRIL 8, 1964
DRAWN (CHECKED):
JOHANNES & MURRAY & ASSOC. ARCHITECTS
355 PENSING DRIVE
SILVER SPRING, MARYLAND

J. S. WILSON, JR. STRUCTURAL ENGINEER
R. L. LUTZ MECHANICAL ENGINEER
SONENSHILF & REIFORD ELECTRICAL ENGINEERS

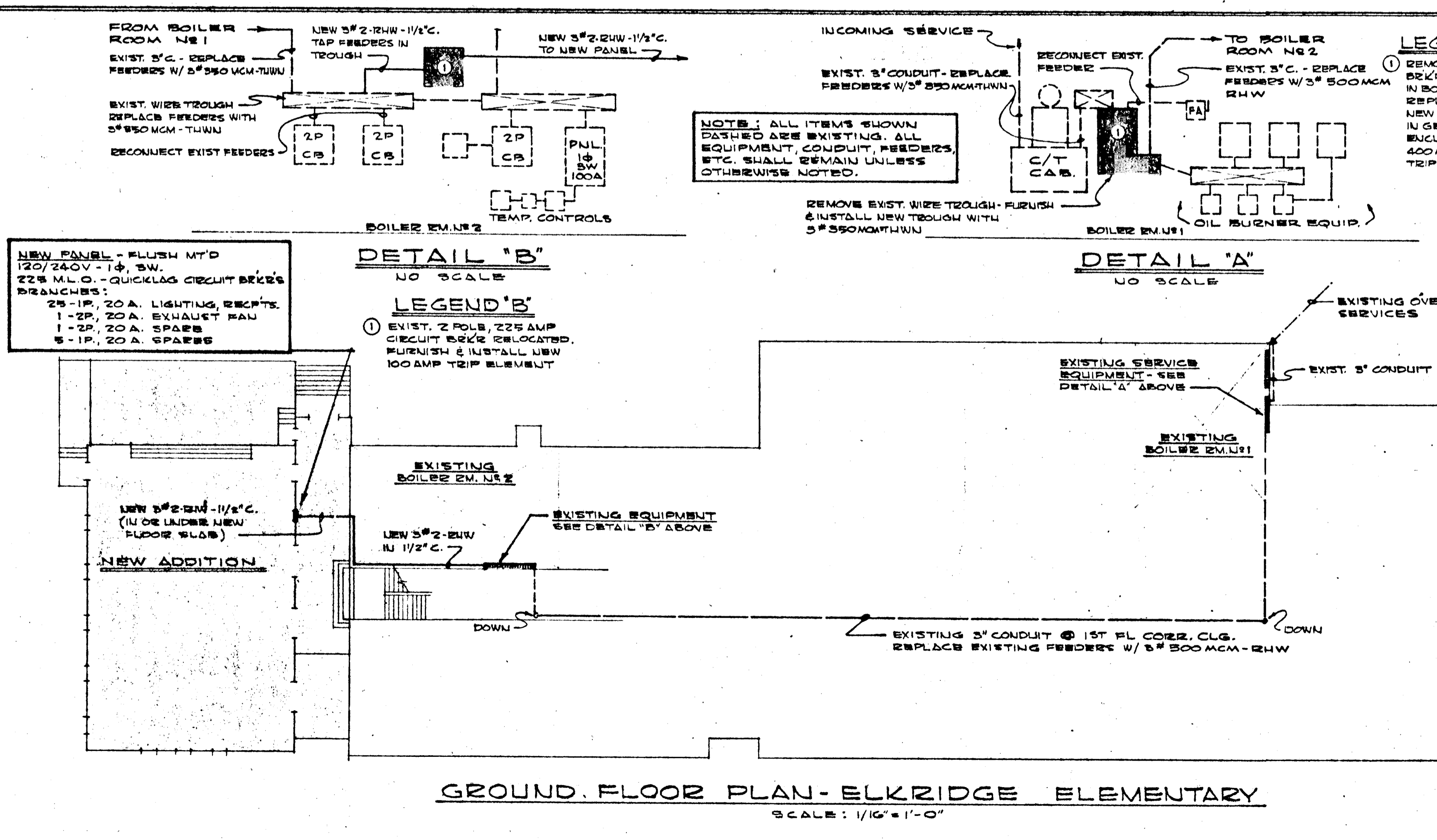


SHEET E-1
OF 2

XXAD-64-E1



FIRST FLOOR PLAN - ELLICOTT CITY ELEMENTARY
SCALE: 1/16" = 1'-0"



GROUND FLOOR PLAN - ELK RIDGE ELEMENTARY
SCALE: 1/16" = 1'-0"

SYMBOLS

- CEILING LIGHTING FIXTURE - INCANDESCENT
- ⊙ BRACKET LIGHTING FIXTURE - INCANDESCENT
- RECESSED LIGHTING FIXTURE - INCANDESCENT
- ⊞ RECESSED LIGHTING FIXTURE - INCAND. ON EMERG. SYSTEM
- ⊞ EXIT LIGHTING FIXTURE - ON EMERGENCY SYSTEM
- ⊞ CEILING LIGHTING FIXTURE - FLUORESCENT
- ⚡ SINGLE POLE SWITCH
- ⚡ THREE-WAY SWITCH
- ⊞ DUPLEX RECEPTACLE
- ⊞ MOTOR - HP & CHARACTERISTICS AS NOTED
- ⊞ UNIT VENTILATOR OR CABINET HEATER CONNECTION
- ⊞ BELL ON EXISTING PROGRAM SYSTEM - SEE NOTE NO. 3
- ⊞ SPEAKER ON EXISTING PROGRAM SYSTEM - SEE NOTE NO. 3
- ⊞ FIRE ALARM SIGNAL - SEE NOTE NO. 3
- ⊞ FIRE ALARM STATION - SEE NOTE NO. 3
- ⊞ MOTOR CONTROLLER W/ PILOT LIGHT

— BRANCH CIRCUIT WIRING CONCEALED IN WALL OR CEILING
— BRANCH CIRCUIT WIRING CONCEALED IN OR UNDER SLAB
— BRANCH CIRCUIT HOME-RUN TO PANEL BOARD. ARROWS INDICATE NUMBER OF CIRCUITS - HASH MARKS INDICATE NUMBER OF WIRES.

⊞ DISCONNECT SWITCH

LIGHTING FIXTURE SCHEDULE

LETTER	DESCRIPTION	CAT. NO.	WATTAGE
A	GIBSON	CAT. NO. 68B 22A	2/40 W.
B	GIBSON	CAT. NO. 68A 42A	4/40 W.
C	KIRLIN	CAT. NO. 1211	150 W.
D	KIRLIN	CAT. NO. 1212	200 W.
E	DAVBITE	CAT. NO. 5016 *	6/6 W.
F	ART METAL	CAT. NO. 5565 SL	2/100 W.
G	PASS & SEYMOUR	CAT. NO. 5141	W/AS NOTED
H	MARCO	CAT. NO. B-200VT	100 W.
J	ART METAL	CAT. NO. 5560 SL	2/60 W.
K	LIGHTOLIER	CAT. NO. 4313	75 W.
L	NBO-ZAY	CAT. NO. 13C-5 W/RSR W/AS NOTED	
M	KIRLIN	CAT. NO. 1207	100 W.
N	MARCO	CAT. NO. A140VT/C43/C52	100 W.

* MOUNTING & DIRECTIONAL ARROWS AS SHOWN ON FLOOR PLANS

- NOTES:**
- MOUNTING HEIGHTS FOR SWITCHES, RECEPTACLES, ETC. SHALL BE SAME AS IN EXISTING BUILDING.
 - ALL EXISTING FIXTURES, CONDUIT, WIRING & WIRING DEVICES TO REMAIN. NO NEW WORK IN THIS AREA.
 - NEW DEVICES SHALL MATCH EXISTING AND SYSTEM SHALL BE EXTENDED TO INCLUDE THESE NEW ITEMS. WIRING METHOD SHALL BE SIMILAR TO EXISTING. UPON COMPLETION OF WORK, EACH SYSTEM SHALL FUNCTION AS A COMPLETE UNIT.
 - MODIFICATIONS SHALL BE MADE TO THE EXISTING METERING CABINET FOR CHANGE FROM 200 AMP TO 400 AMP CAPACITY. MATERIALS TO BE FURNISHED BY UTILITY CO. FOR INSTALLATION BY THE ELECTRICAL CONTRACTOR.
 - EXISTING EMERGENCY PANEL (4 SPACES) FURNISH & INSTALL NEW CIRCUIT BREAKERS FOR EXTENSION OF EXIST. EMERG. AS REQUIRED.
 - EXISTING EXTERIOR FLOODLIGHTS SHALL BE REMOVED AND RELOCATED TO SUIT NEW ADDITION. EXTEND CONDUIT & WIRING TO NEW LOCATIONS.

FEDERAL PROJECTS MD-63-C-1102 A 13 & MD-63-C-1102 B 13

ADDITION TO ELK RIDGE ELEMENTARY SCHOOL
ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL

BOARD OF EDUCATION HOWARD COUNTY, MARYLAND
JOHN E. YINGLING SUPT. OF SCHOOLS

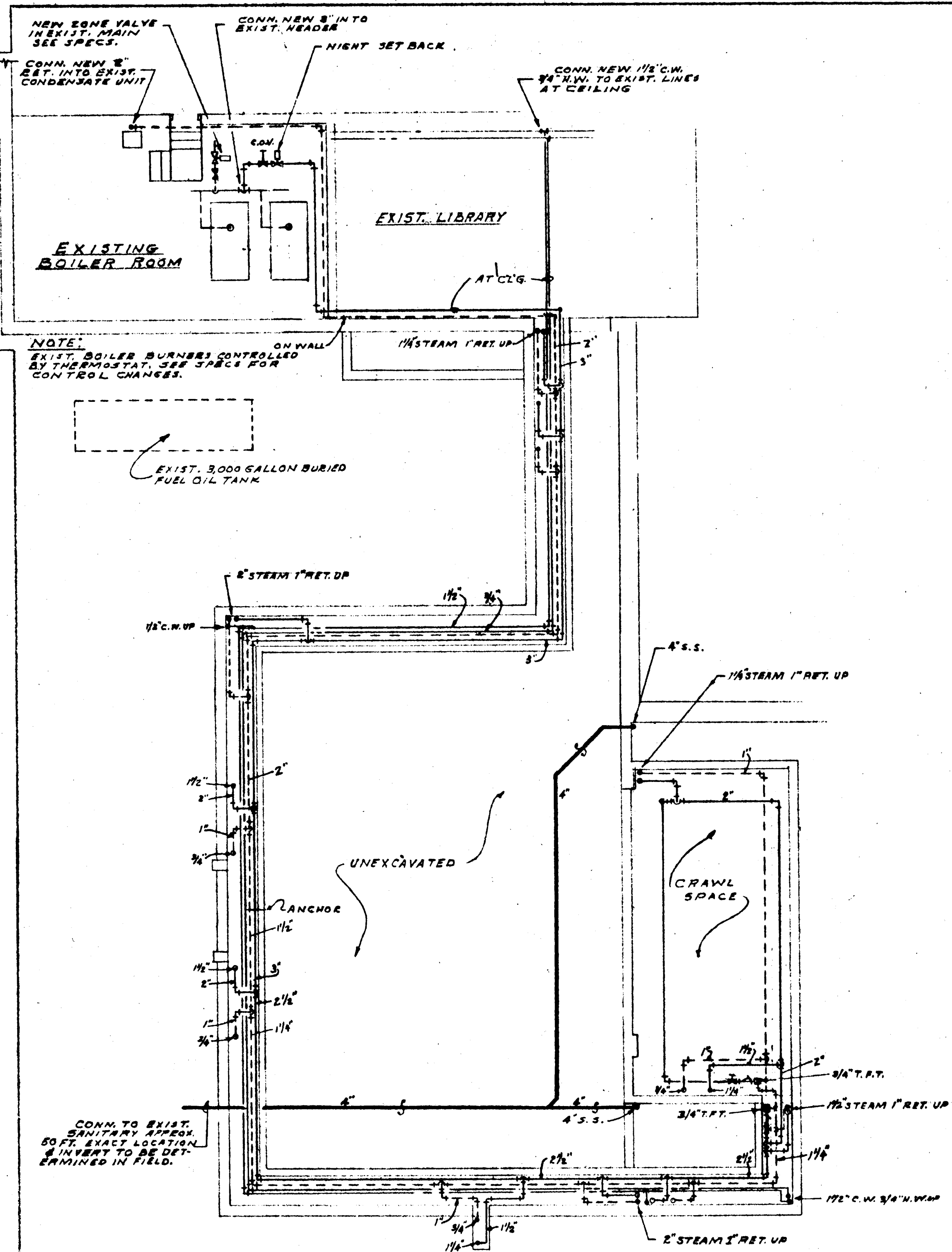
DATE: APRIL 8, 1964
DRAWN (CHECKED): J. G. WILSON, JR.
R. L. LUTZ
SCHUBERT & STAFFORD

JOHANNES & MURRAY ASSOC. ARCHITECTS
855 PERSHING DRIVE
SILVER SPRING, MARYLAND

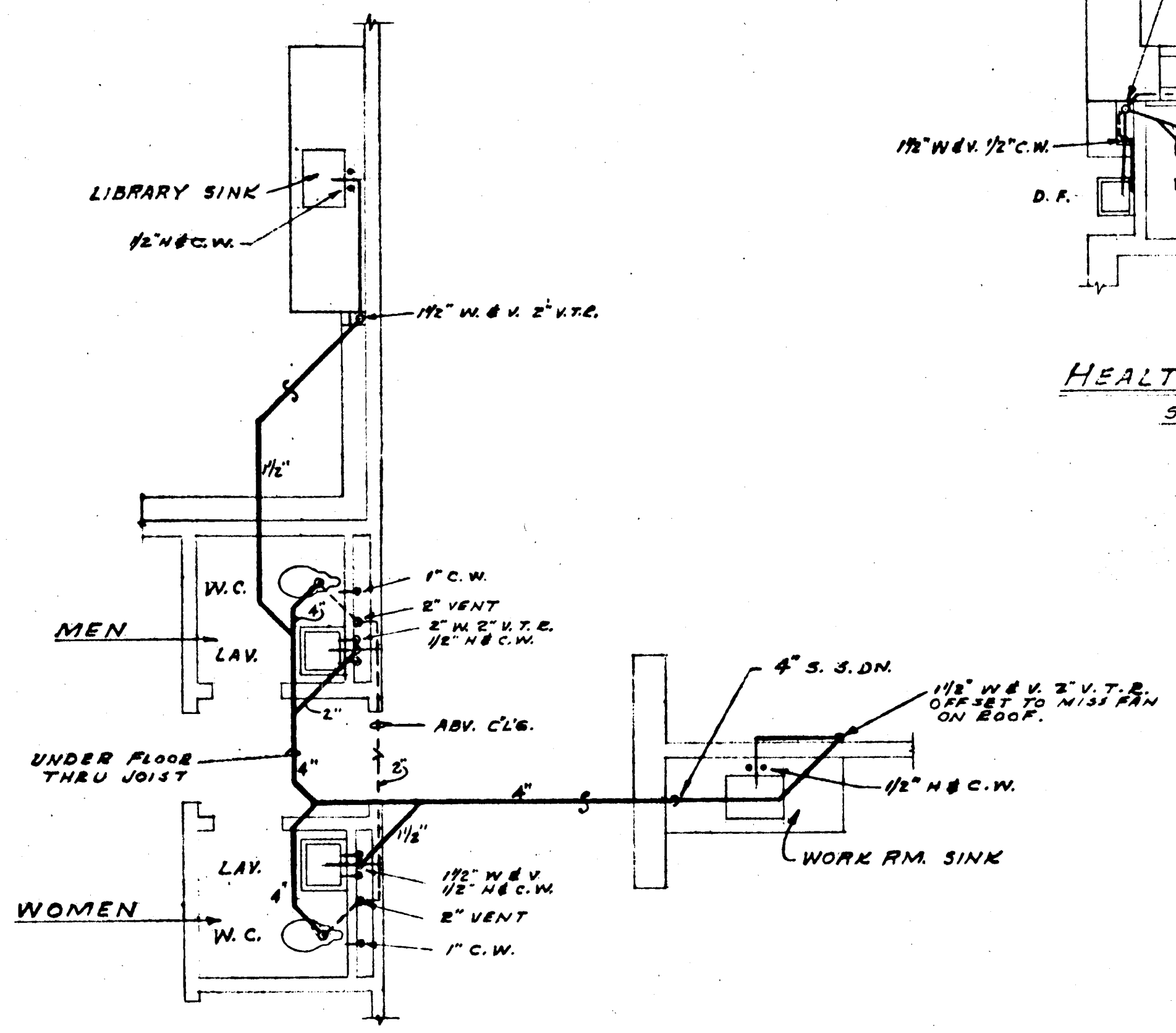
J. G. WILSON, JR. STRUCTURAL ENGINEER
R. L. LUTZ MECHANICAL ENGINEER
SCHUBERT & STAFFORD ELECTRICAL ENGINEERS

SHEET E 2 OF 2

#462



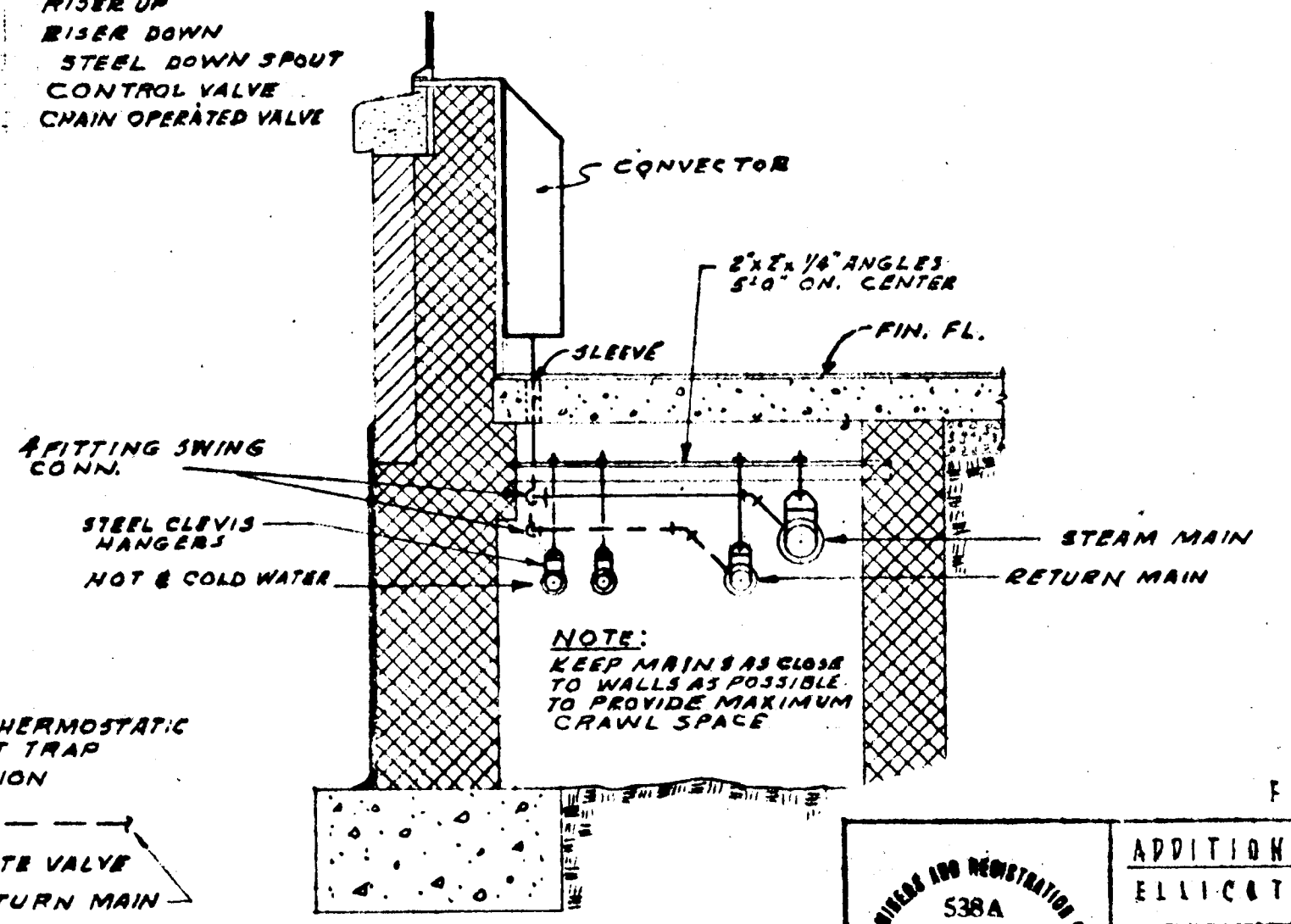
FOUNDATION PLAN
SCALE 1/8"=1'-0"



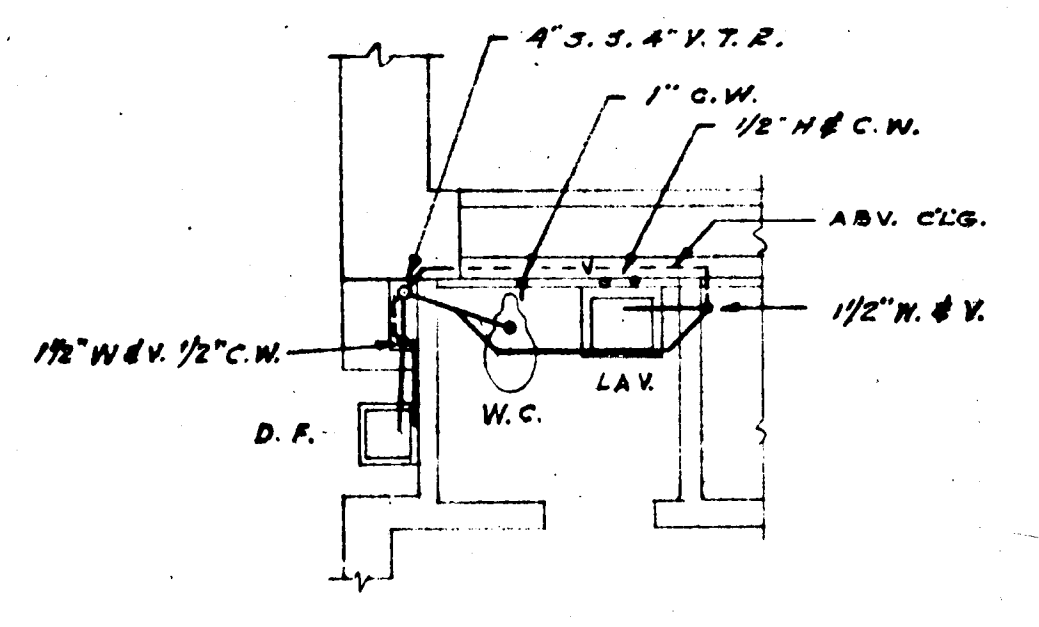
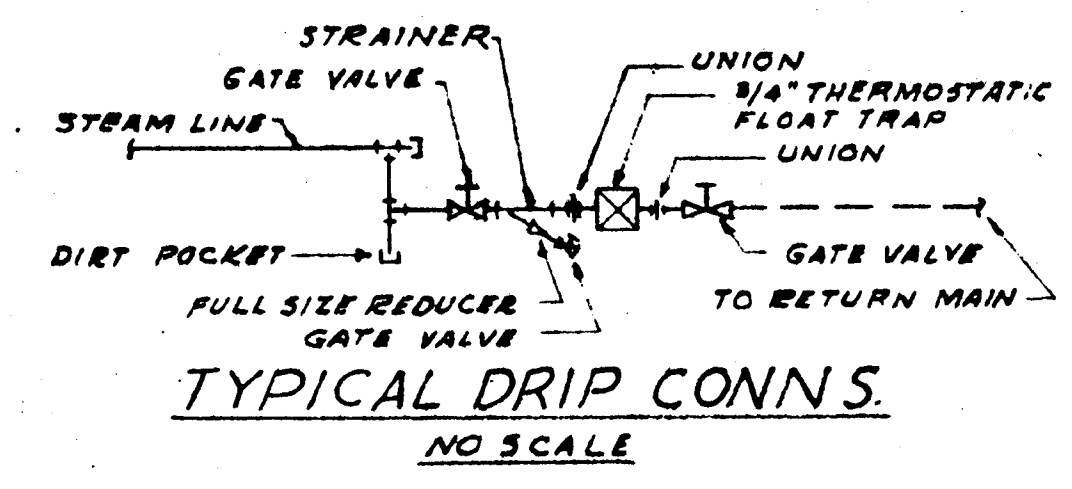
TEACHERS TOILETS
SCALE 1/2"=1'-0"

SYMBOLS

- LOW PRESSURE STEAM
- CONDENSATE
- SANITARY & WASTE
- VENTS
- COLD WATER C.W.
- HOT WATER H.W.
- GATE VALVE
- STRAINER
- THERMOSTATIC FLOAT TRAP
- HOSE BIB
- THERMOSTAT
- RISER UP
- RISER DOWN
- STEEL DOWN SPOUT
- CONTROL VALVE
- CHAIN OPERATED VALVE



SECTION THRU PIPE



HEALTH TOILET
SCALE 1/4"=1'-0"

FEDERAL PROJECT MD-G3-C-1102815

ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL
ELLICOTT CITY - MARYLAND

BOARD OF EDUCATION HOWARD COUNTY, MARYLAND
JOHN E. YINGLING SUPT. OF SCHOOLS

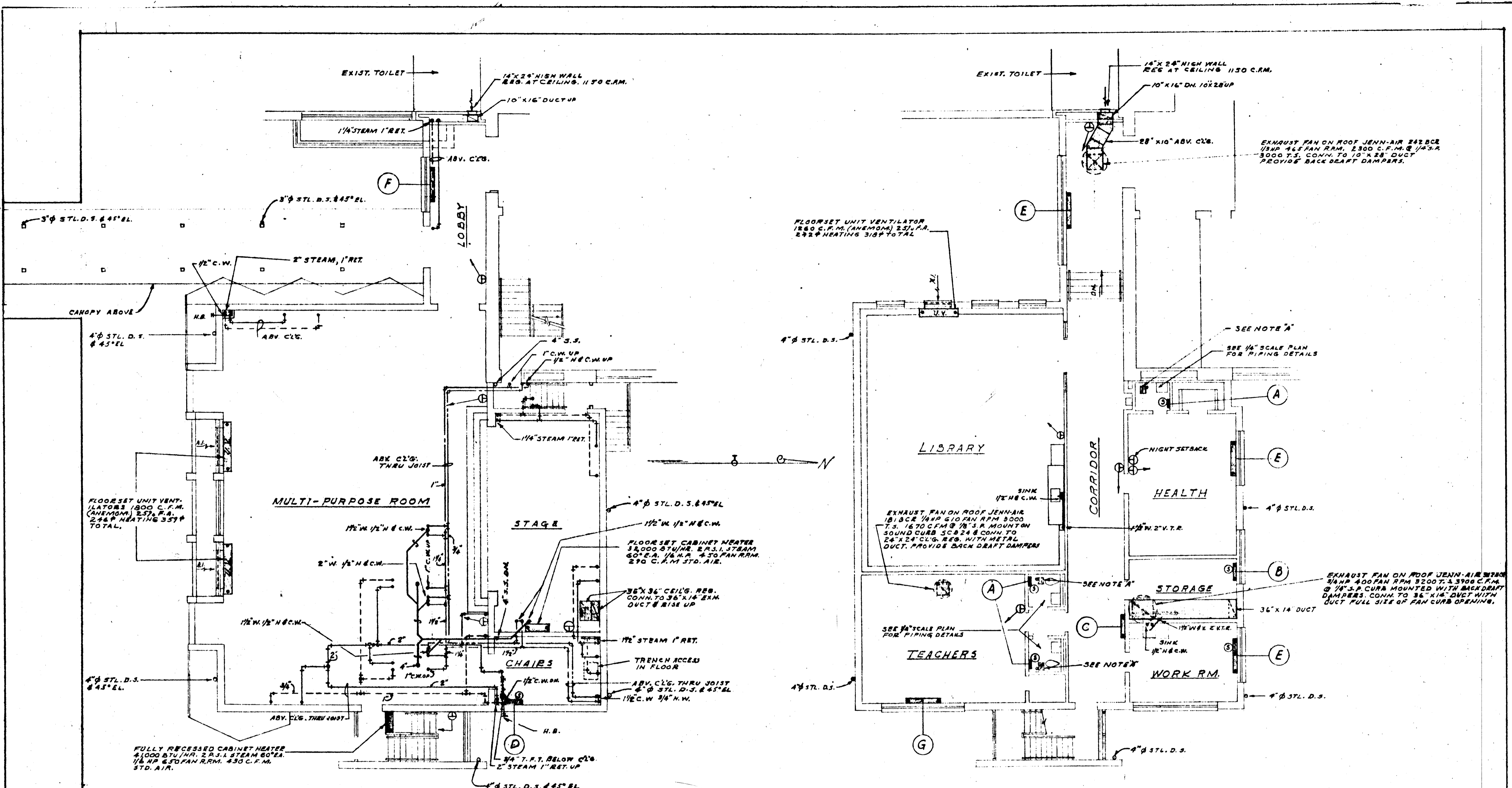
DATE: APRIL 8, 1964
DRAWN: []
CHECKED: []

JOHANNES & MURRAY ARCHITECTS
100 EPPING DRIVE
ELLSWORTH, MARYLAND

REVISIONS

SHEET M1
OF 2

XXAD-64-M1



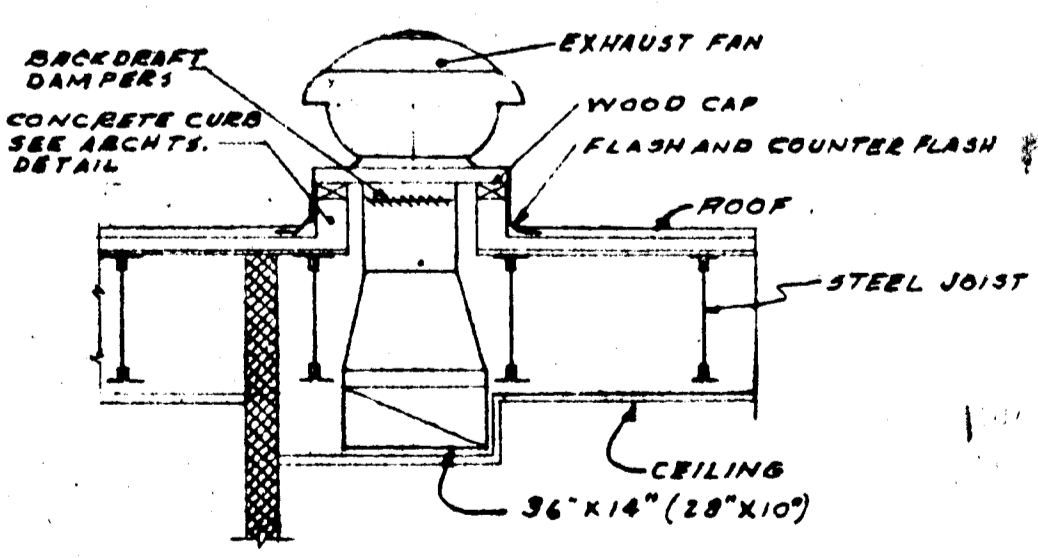
FIRST FLOOR PLAN
SCALE 1/8"=1'-0"

SECOND FLOOR PLAN
SCALE 1/8"=1'-0"

CONVECTOR SCHEDULE

LETTER	DEPTH	HEIGHT	LENGTH	CAPACITY	SUPPLY		RETURN	
					VERT.	R.O.	VERT.	R.O.
A	4"	14"	16"	8.5	1/2"	3/4"	1/2"	3/4"
B	6"	26"	32"	38.0	3/4"	1"	1/2"	3/4"
C	6"	32"	40"	51.5	3/4"	1"	1/2"	3/4"
D	10"	32"	32"	61.0	1"	1 1/4"	1/2"	3/4"
E	8"	26"	64"	101.0	1"	1 1/4"	1/2"	3/4"
F	10"	20"	64"	115.5	1"	1 1/4"	1/2"	3/4"
G	10"	32"	64"	128.0	1"	1 1/4"	1/2"	3/4"

RATINGS BASED ON 2 P.S.I. STEAM 65° ENTERING AIR

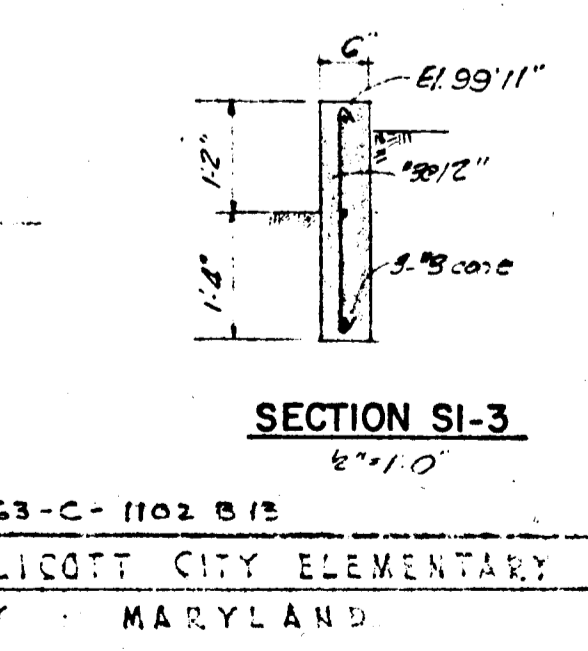
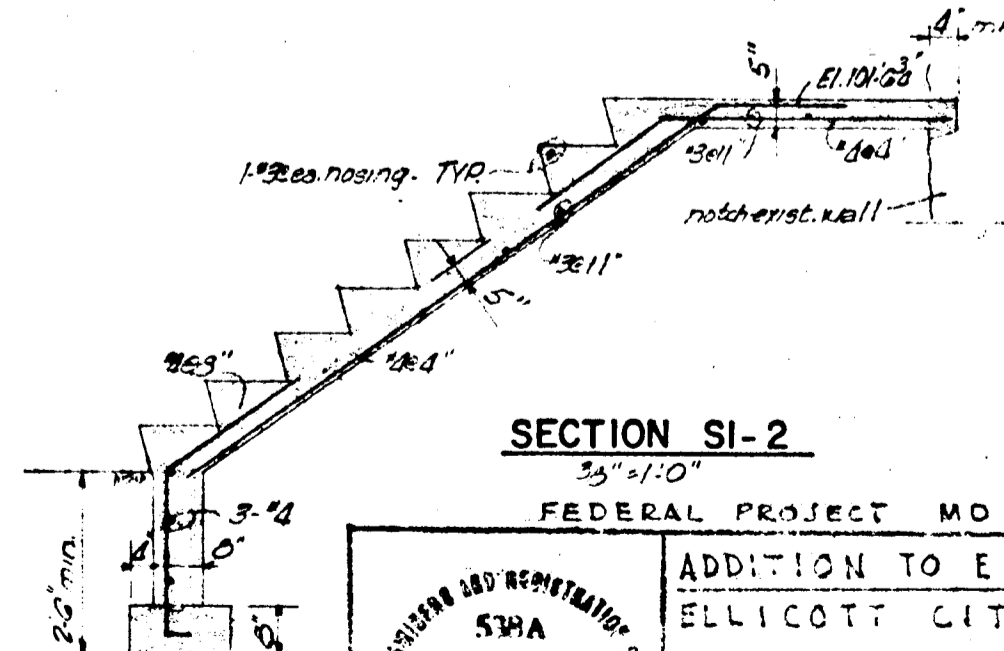
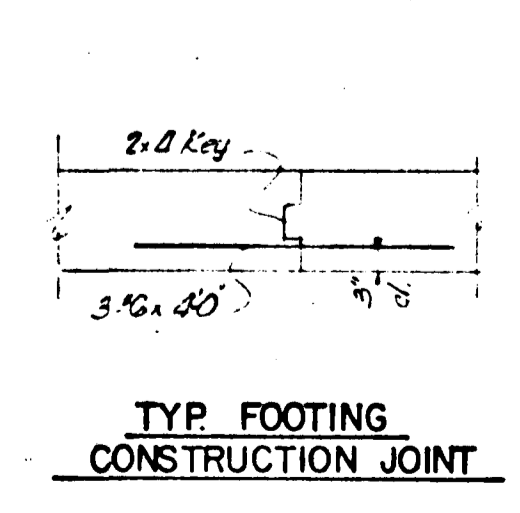
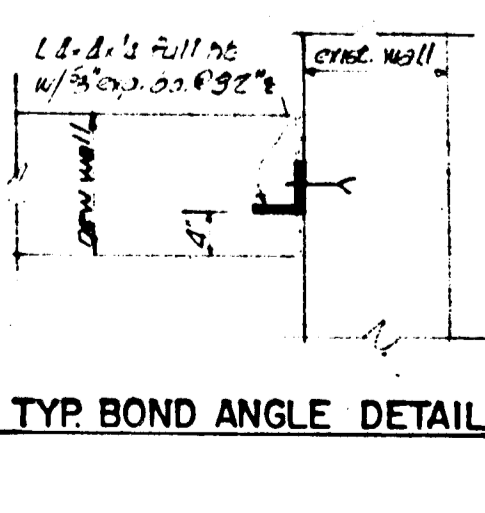
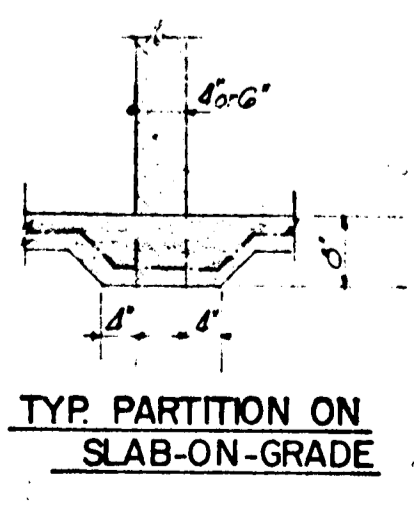
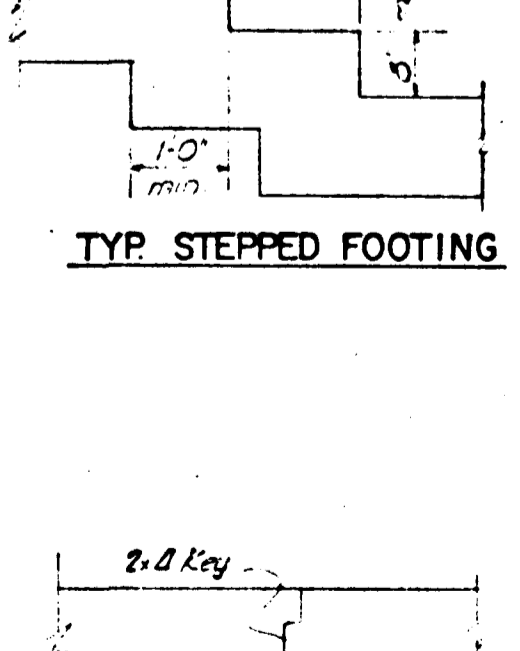
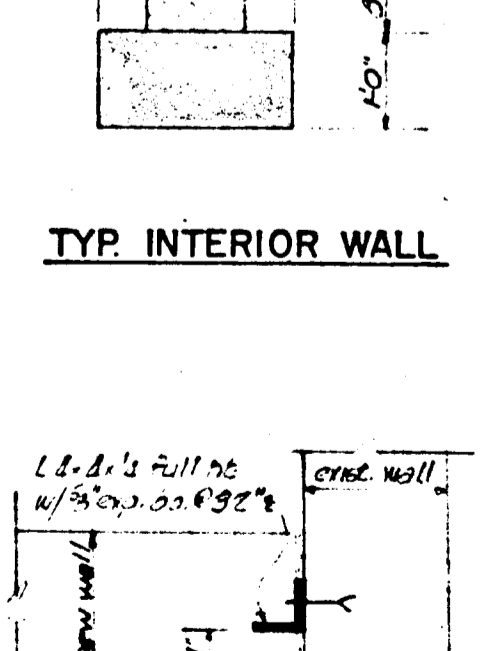
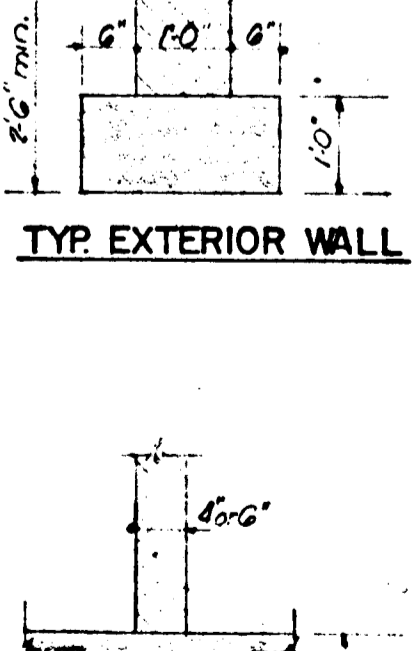
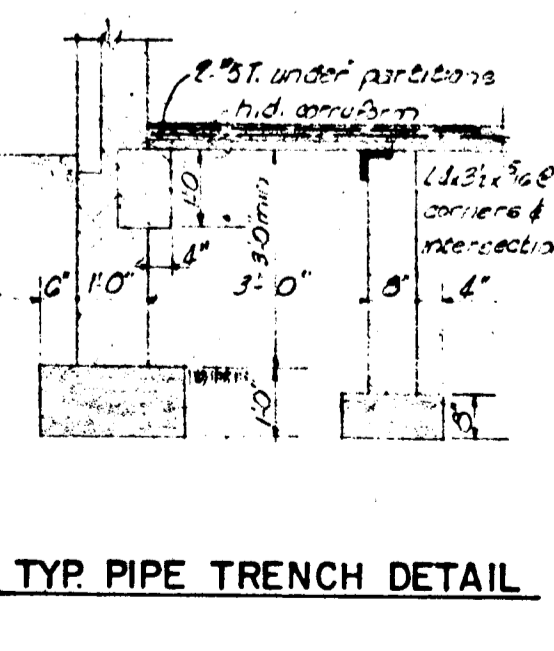
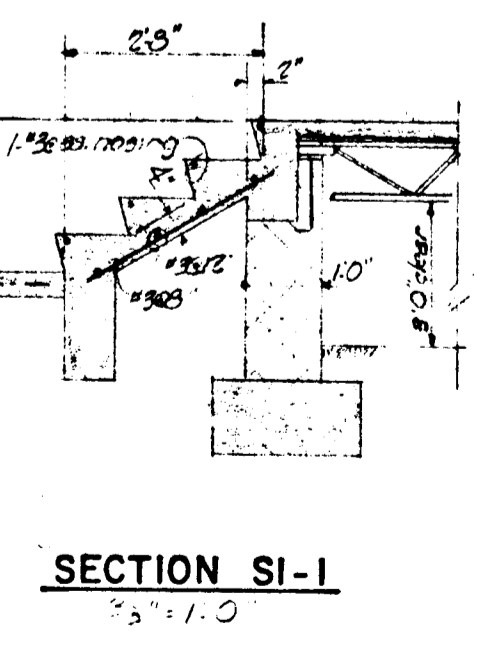
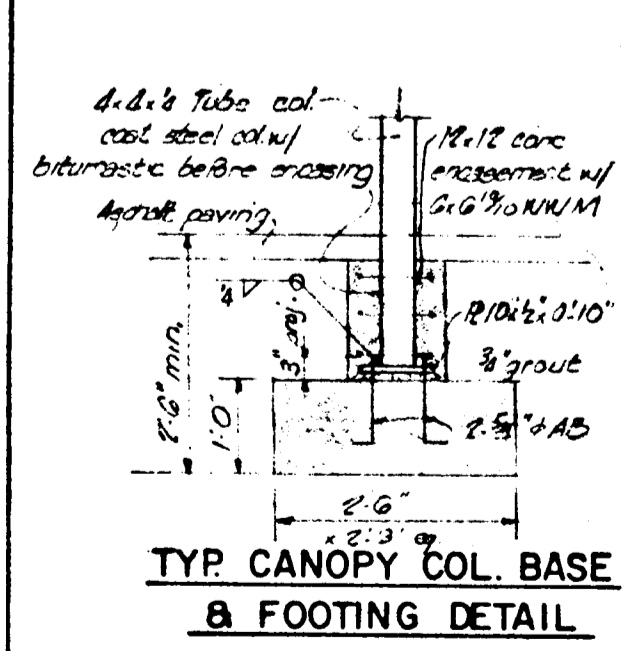
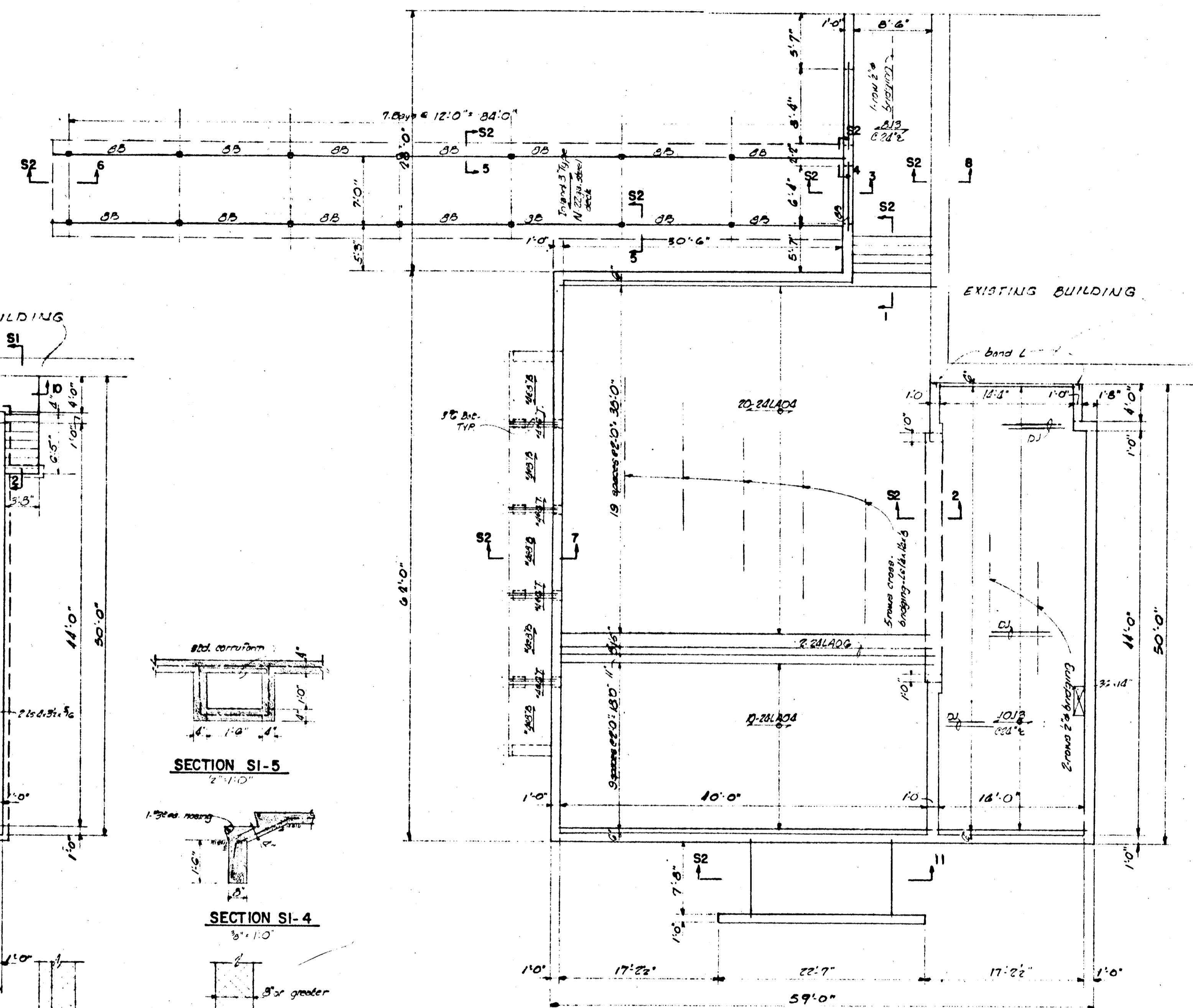
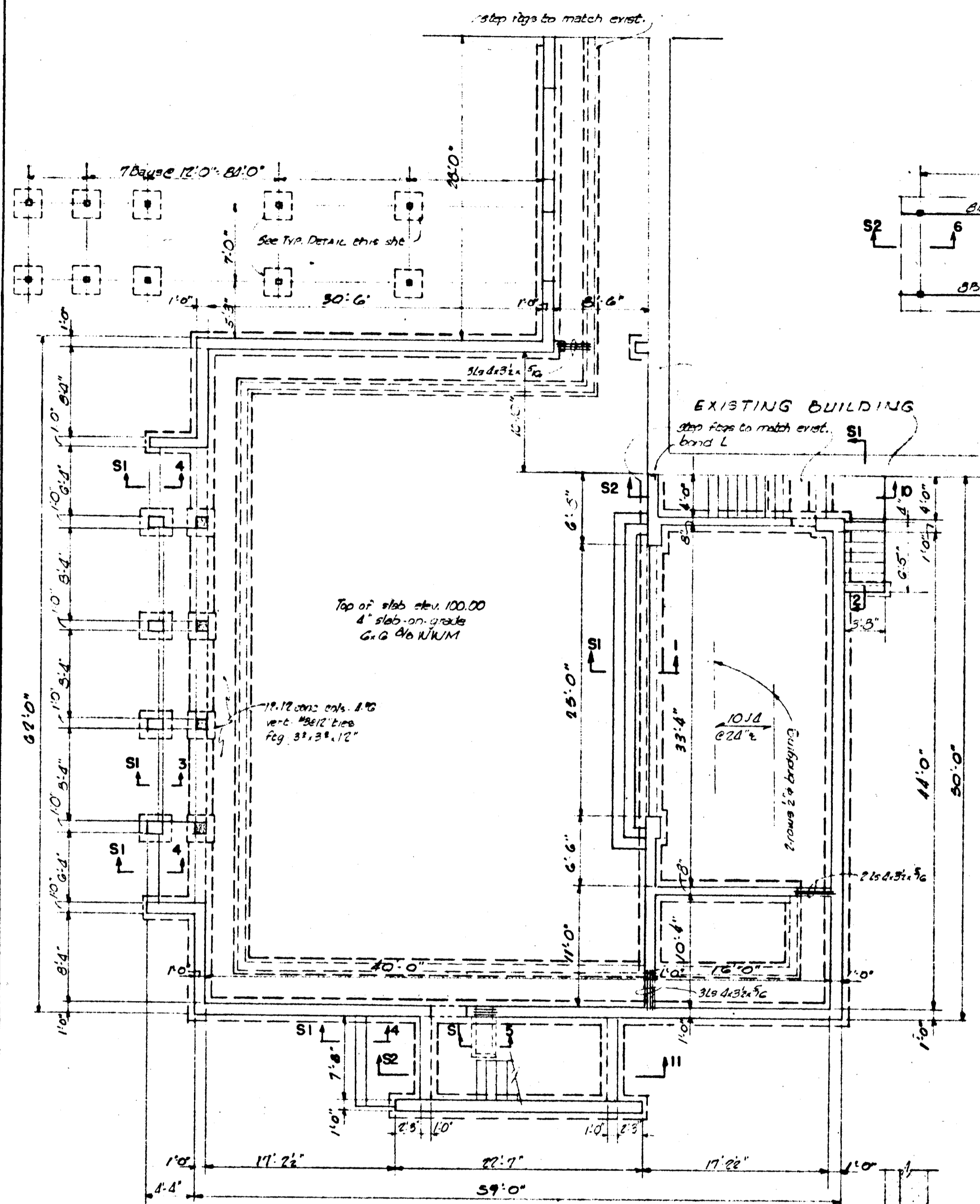


DETAIL OF DOME TYPE EXHAUST FAN
NO SCALE
SHOWING STANDARD CURB-SOUND CURB PER MFG. DETAIL

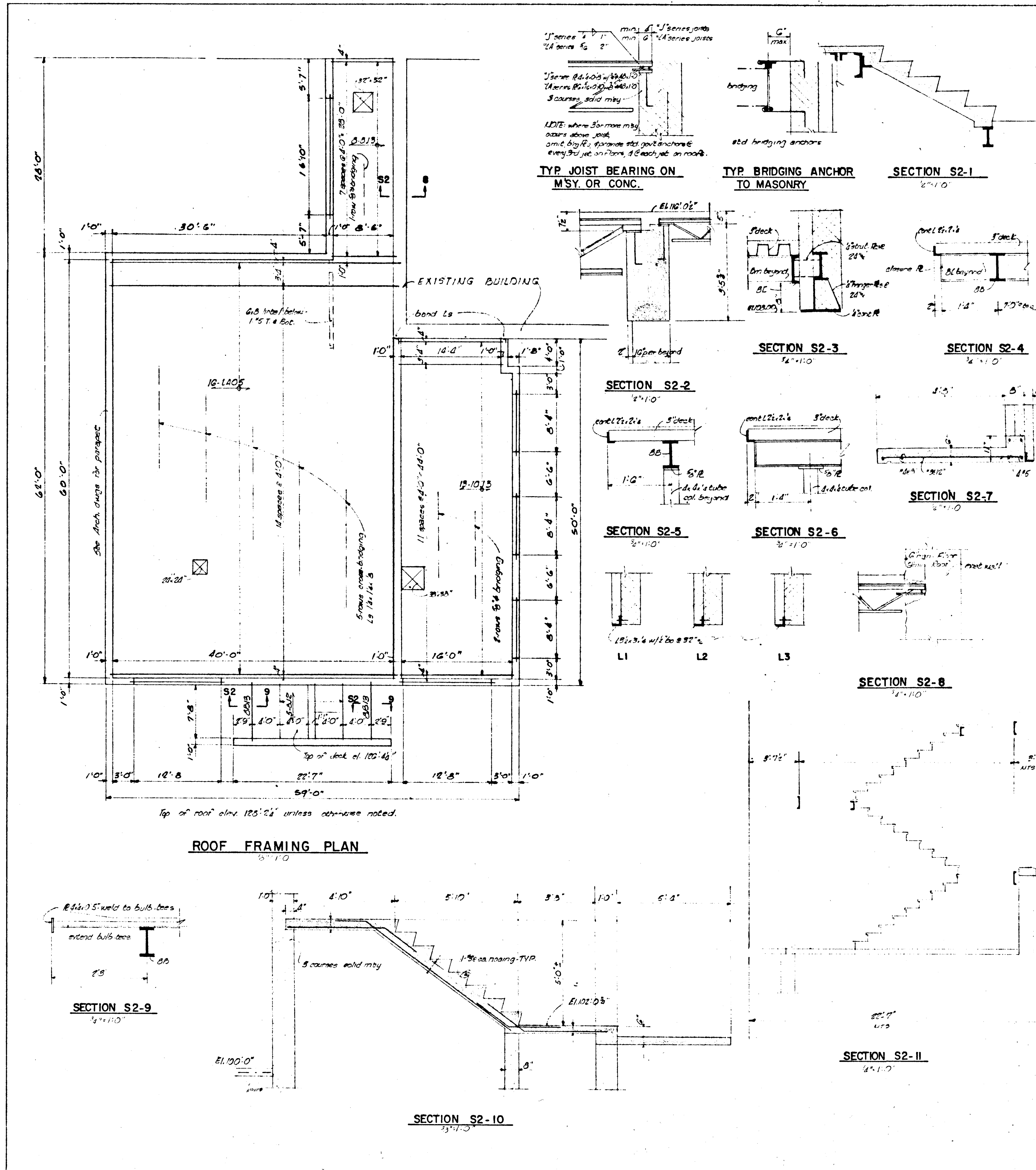
FEDERAL PROJECT: MD-C3-C-1102B13

ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL ELLICOTT CITY, MARYLAND	
BOARD OF EDUCATION HOWARD COUNTY, MARYLAND JOHN E. YINGLING SUPT. OF SCHOOLS	
DATE: APRIL 5, 1964 DRAWN (CHECKED): [Signature]	
ARCHITECTS: JOHANNES & MURRAY, ARCHITECTS 345 HARRISON DRIVE LIVERMERE, N.J. 07033	
ENGINEERS: J. G. WILSON, JR., STRUCTURAL ENGINEER P. C. LUTZ, MECHANICAL ENGINEER 517 S. HOWARD STREET, BALTIMORE, MD. 21201	
	SHEET M 2 OF 2

#762



	FEDERAL PROJECT MO-G3-C-1102 B15 ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL ELLICOTT CITY - MARYLAND		SHEET S 1 OF 2
	BOARD OF EDUCATION HOWARD COUNTY, MARYLAND JOHN E. YINGLING SUPT. OF SCHOOLS		
	JOHANNES & MURRAY & ASSOC. ARCHITECTS 1000 WASHINGTON DRIVE SILVER SPRING, MARYLAND		
	DATE: APRIL 8, 1964 DRAWN: [REDACTED] CHECKED: [REDACTED] J. G. WILSON, JR. STRUCTURAL ENGINEER F. L. HUTZ MECHANICAL ENGINEER SCHMIDT & FULFORD ELECTRICAL ENGINEERS		



STRUCTURAL NOTES

SOIL VALUE - Assumed at 6,000 psf.
LIVE LOADS - Roof - 30 psf; Health Room, Teachers Room and Workroom - 60 psf; Library - 75 psf; Corridors, Stairs and Stair Landings, Stage and Storage - 100 psf.
FOOTINGS - Wall footings, except where shown otherwise, to be 12" deep with a 6" projection beyond each face of the wall. Pier, pilaster and stack footings to be 18" deep with a 9" projection beyond all faces. All footings to project a minimum of 1'-0" into undisturbed original soil having a minimum bearing value at least equal to that shown above. All exterior footings to be a minimum of 2'-6" below finished grade. The bottom elevation of all footings have been indicated on the foundation plan. Footing elevations have been established from available information and shall not be construed as waiving any of the minimum requirements stated above.
CONCRETE - To conform to the A. C. I. Building Code Requirements for Reinforced Concrete (1956 edition). Interior slabs on grade and concrete footings to be 2,500 psi concrete. All reinforced concrete to be 3,000 psi concrete, unless otherwise noted. All exterior slabs on grade to be 3,000 psi concrete.
REINFORCEMENT - To be intermediate grade, new billet steel with $f_s = 20,000$ psi, conforming to ASTM A15-62T. Deformations to conform to ASTM A305-56T. Welded wire mesh to conform to ASTM A185-61T. Fabricate and provide standard supporting accessories in accordance with the A. C. I. Manual of Standard Practice for Detailing Reinforced Concrete Structures.
CONCRETE PROTECTION FOR REINFORCEMENT - Reinforcing bars and mesh to have a minimum concrete cover as follows: Footings and other concrete poured against earth - 3"; Formed concrete exposed to earth - 2"; Beams and columns - 1-1/2"; Framed slabs - 3/4". Slabs on ground, unless otherwise noted, to have reinforcement at mid-depth.
STRUCTURAL STEEL - Steel shall conform to ASTM-A36 Specifications and the A. I. S. C. Specification for the Design, Fabrication and Erection of Structural Steel for Buildings, latest adoption. Unless otherwise noted on plans, shop and field connections may be bolted using 3/4" A325 High Strength Bolts in A. I. S. C. "bearing type" connections; or welded using E60 Series electrodes with all welding conforming to AWS Specifications and done by certified welders. No fabrication is to be started until shop drawings, complete in every respect, have been approved. Unless otherwise noted, provide 7 x 5/8 x 0'-8" bearing plates and clip angle anchors where steel beams bear on concrete or masonry. All structural steel, except that which is to be encased in concrete, must be painted one shop coat of red lead and linseed oil and one field coat of lead and linseed oil with lampblack added. See Specifications for additional painting.
STEEL JOISTS - Shall be only those specifically approved by the Steel Joist Institute, 1964 edition. The steel used in manufacture of chord and web sections shall conform to ASTM-A36 Specifications. Where not otherwise shown, provide rows of 1/2" (5/8" if spacing is over 3'-0") continuous bridging as required by the Standard Specifications of the S. J. I. with end anchors at each row. Weld or bolt bridging to joists. Provide special ends and extensions as required. Provide ceiling extensions as required. Where ducts, anemostats, recessed light fixtures, etc., occur in ceilings, space joists to provide for same. Where bridging is interrupted by such items, provide additional bridging at each end of such items that will overlap the standard bridging. Provide double joists under all parallel partitions and over all folding doors parallel to joist span. Joists to bear a minimum of 2-1/2" on steel and 4" on concrete or masonry. Where joists bear on steel, weld ends to steel with two 1/4" welds each 1" long (one on each side of joist). Anchor joists to concrete or masonry as detailed or noted. Provide one shop coat of paint. (See Specifications for further painting.)
CONCRETE FLOOR DECK - Shall be 2" net concrete ($f_c = 2,500$ psi) reinforced with 6 x 6 - 10/10 W. W. M. on Standard Corrugum, overall depth - 2-1/2". Weld Corrugum to each steel joist at 36" O. C. (Max.), and lap sheets as per manufacturers' recommendations.
GYPHUM ROOF DECK - Total depth to be 2-1/2", unless otherwise noted. Use 1/2" sheetrock formboard on all roofs unless otherwise noted. Over formboards, use 2" of poured gypsum reinforced with 4 x 8 - 12/14 welded wire mesh. Provide W-1120 HS Bulb-tees 32-5/8" O. C. welded perpendicular to steel joists, unless otherwise noted.
SLABS ON GRADE - Except where otherwise noted, shall be 5" thick, reinforced with 6 x 6 - 8/8 welded wire mesh. Lap mesh 6" in each direction. Four in checkerboard pattern with approximately 625 S. F. per bay and construction joints at 25'-0" Max. O. C. For all exterior slabs on grade air entrained cement with entrained air of 4% or equivalent, air-entraining agent shall be used. Provide 1/2" perimeter expansion joint filled with compressible material where slabs butt vertical surfaces.
STEEL LINTELS - Unless otherwise indicated, provide loose angle lintels as follows with one angle for each 4" of masonry with the 3-1/2" leg horizontal for openings and recesses:
 Openings 3'-6" - - - - - 3 x 3-1/2 x 5/16
 Openings 3'-7" to 5'-0" - - - - - 4 x 3-1/2 x 5/16
 Openings 5'-1" to 7'-11" - - - - - 5 x 3-1/2 x 3/8
CONCRETE LINTELS - Unless otherwise indicated, shall be of 2,500 psi concrete, 7-5/8" deep. Provide one #5 reinforcing bar top and bottom, hooked each end, for each 4" or fraction thereof of width, and #2 closed ties at 10" O. C. Provide 8" bearing each end.
ROOF DECK - Shall be Inland Steel Products Company, Type N roof deck 18 gauge or equal. Mechanically fasten deck between supports and install in conformance to manufacturers' specifications.
BEARINGS - Provide a minimum of 3 courses of solid brick or one course 100% solid block under wall bearing ends of all joists and slabs. Provide 100% solid masonry down to footings under all beams and lintels bearing on masonry. All portions of bearing walls having a horizontal cross-section of 4 square feet or less shall be of solid masonry down to footings. All walls resting on footings to be laid up in Portland cement mortar and to be of load-bearing units. Corbels shall be of 100% solid masonry with 8" minimum embedment in wall.
MORTAR - Shall be 1 part Portland cement, 3 parts clean, washed, sharp sand and 15% hydrated lime. All parts by volume. See Specifications for allowable substitutions.
 Provide control joints at 20'-0" O. C. each way in all exterior slabs on grade.

FEDERAL PROJECT MD-63-C-1102-B13

ADDITION TO ELLICOTT CITY ELEMENTARY SCHOOL
 ELLICOTT CITY - MARYLAND

BOARD OF EDUCATION HOWARD COUNTY, MARYLAND
 JOHN E. YINLING SUPT. OF SCHOOLS

DATE: APRIL 8, 1964
 DRAWN BY: J. G. WILSON, JR.
 J. B. NO. 517

JOHANNES & MURRAY ASSOC. ARCHITECTS
 855 PERSHING DRIVE
 SILVER SPRING, MARYLAND

SHEET 52 OF 2

J. G. WILSON, JR. STRUCTURAL ENGINEER
 R. L. LUTZ MECHANICAL ENGINEER
 SCHEIBEL & FOLEFORD ELECTRICAL ENGINEERS