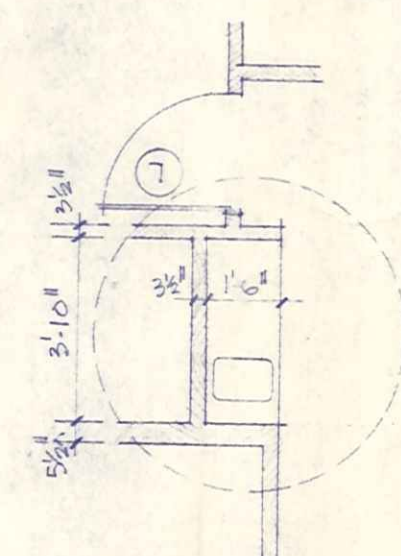




Figure 10.10 shows the Shear Force (SF) and Bending Moment (BM) diagrams for a continuous beam with three spans. The beam has a total length of 18m, with spans of 6m, 6m, and 6m. The beam is supported by four supports (1, 2, 3, 4). The beam is subjected to a uniformly distributed load of 12 kN/m. The diagrams show the variation of shear force (SF) and bending moment (BM) along the length of the beam. The SF diagram shows a constant shear force of -12 kN in the first span, zero shear force at the second support, a constant shear force of +12 kN in the second span, zero shear force at the third support, a constant shear force of -12 kN in the third span, and zero shear force at the fourth support. The BM diagram shows a parabolic variation of bending moment in each span, with maximum values of 18 kNm at the second support and 18 kNm at the third support. The beam is labeled 'CANTILEVER' at both ends.

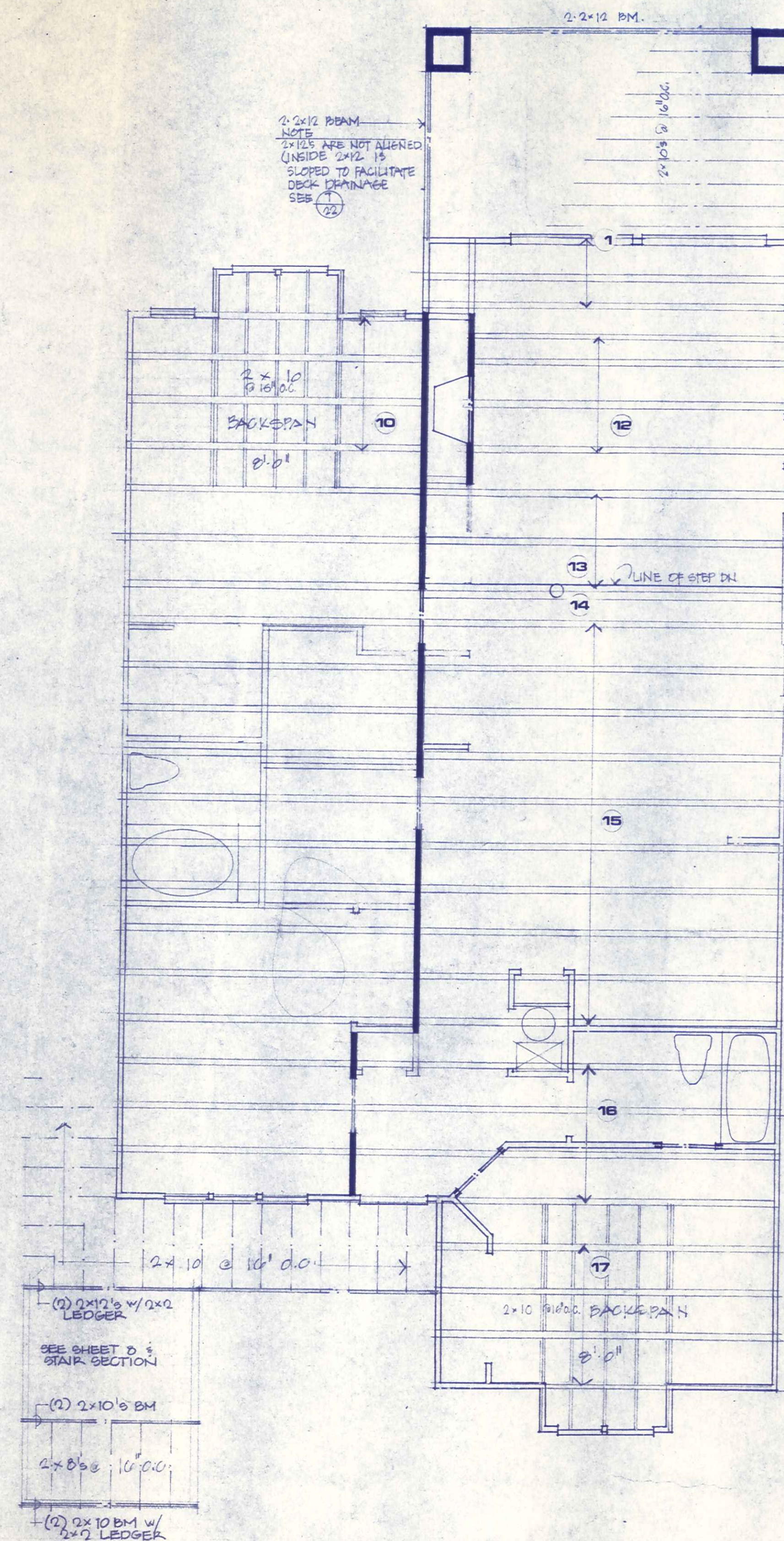


OPTIONAL BAR PLAN

Hand-drawn technical drawing of a staircase with 16 steps. The drawing shows the side elevation and top view of the steps. The side elevation shows the riser and tread dimensions for each step. The top view shows the width of the steps and the spacing between them. The steps are numbered 1 through 16. The dimensions are given in feet and inches, with some steps having additional dimensions in parentheses.

Step Number	Riser (ft)	Tread (ft)	Width (ft)
1	12" (1')	12' 6 1/2"	12' 10 1/2"
2	12" (1')	12' 11"	13' 7 1/2"
3	16" (1' 3")	16' 8"	16' 9"
4	16" (1' 3")	16' 10"	16' 10 1/2"
5	16" (1' 3")	16' 10"	16' 10 1/2"
6	16" (1' 3")	16' 10"	16' 10 1/2"
7	16" (1' 3")	16' 10"	16' 10 1/2"
8	16" (1' 3")	16' 10"	16' 10 1/2"
9	16" (1' 3")	16' 10"	16' 10 1/2"
10	16" (1' 3")	16' 10"	16' 10 1/2"
11	16" (1' 3")	16' 10"	16' 10 1/2"
12	16" (1' 3")	16' 10"	16' 10 1/2"
13	16" (1' 3")	16' 10"	16' 10 1/2"
14	16" (1' 3")	16' 10"	16' 10 1/2"
15	16" (1' 3")	16' 10"	16' 10 1/2"
16	16" (1' 3")	16' 10"	16' 10 1/2"

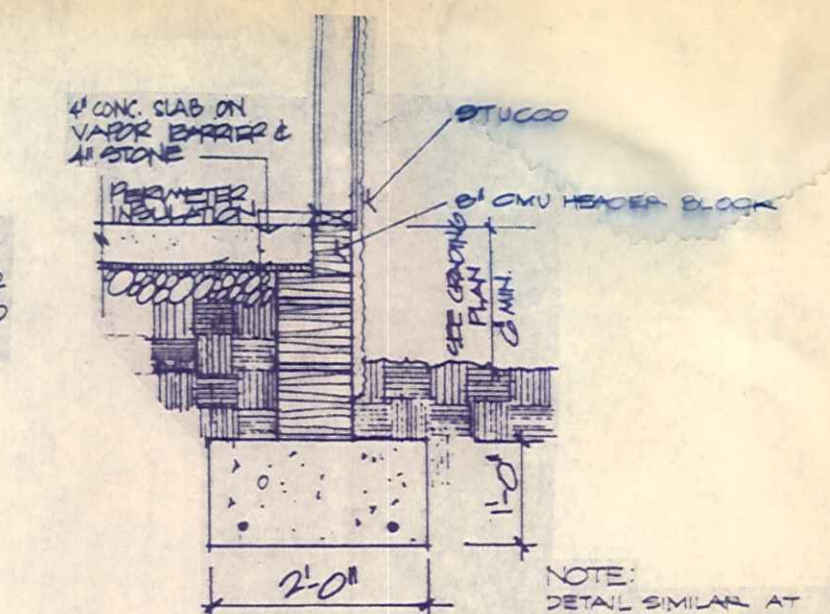
- ## NOTES:
- ALL TRUSSES 24° O.C.
 - TRUSS MANUFACTURER SHALL VERIFY ALL DIMENSIONS AND PROVIDE STRUCTURAL DESIGN.
 - THESE FRAMING PLANS ARE FOR INTENT ONLY - ACTUAL TRUSS LAYOUT IN MANUF.
 - IF TRUSS MANUF. CAN ACCOMPLISH INTENT OF THESE PLANS THROUGH ANOTHER METHOD - WE'LL LISTEN
 - TYPICAL PLY. FLOOR FRAMING - LAG 2×10 @ 16° O.C. INTO FLOOR TRUSSES, BACK SPAN $8' - 0"$. DOUBLE JOISTS AT SIDES.
 - TRUSS MANUFACTURER TO COORDINATE TRUSS LAYOUT AND DESIGN W/ HVAC LAYOUT.
 - ENGINEERED SHOP DRAWINGS TO BE SUBMITTED TO CHARLOTTE, MECKLENBURG BUILDING STANDARDS DEPT. PRIOR TO PLACEMENT OF ANY TRUSS.



NOTE:
DARK WALLS INDICATE BEARING WALLS
IN UNIT "B" BELOW.

- [illegible]

- TRUSS MANUFACTURER TO COORDINATE TRUSS LAYOUT AND DESIGN W/ HVAC LAYOUT.
- ENGINEERED SHOP DRAWINGS TO BE SUBMITTED TO CHARLOTTE-MECKLENBURG BUILDING STANDARDS DEPT. PRIOR TO PLACEMENT OF ANY TRUSS.



7
4

DETAIL @ TYP. PARTY WALL

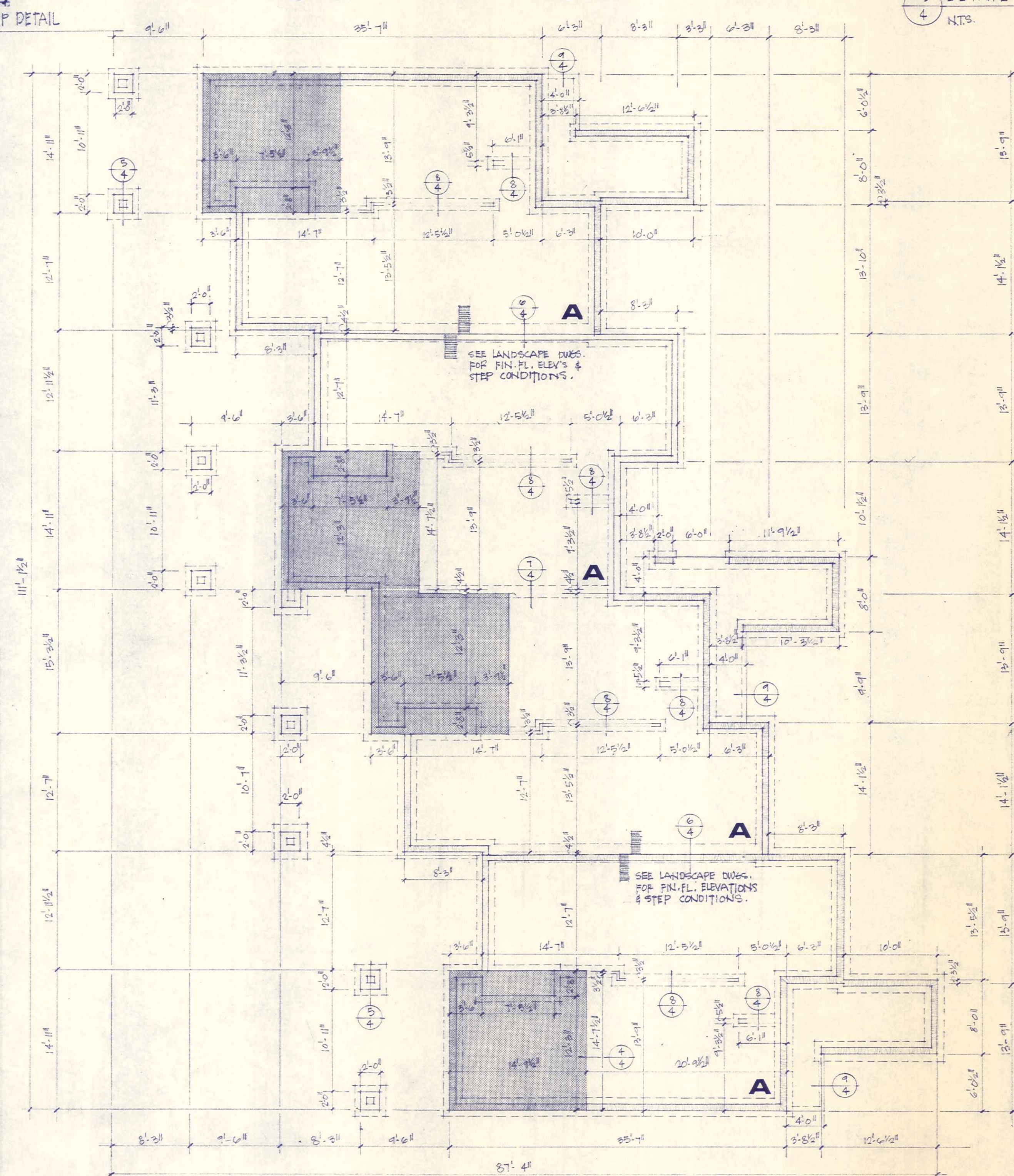
N.T.S.

4 DETAILED STEP DOWN
4 N.T.S.

3 DETAIL @ TYP. PERIMETER.
4 N.T.S.



2 FIRST LEVEL BUILDING PLAN
4 1/8" = 1'-0"



NOTE: SHADED AREA INDICATES STEP-DOWN

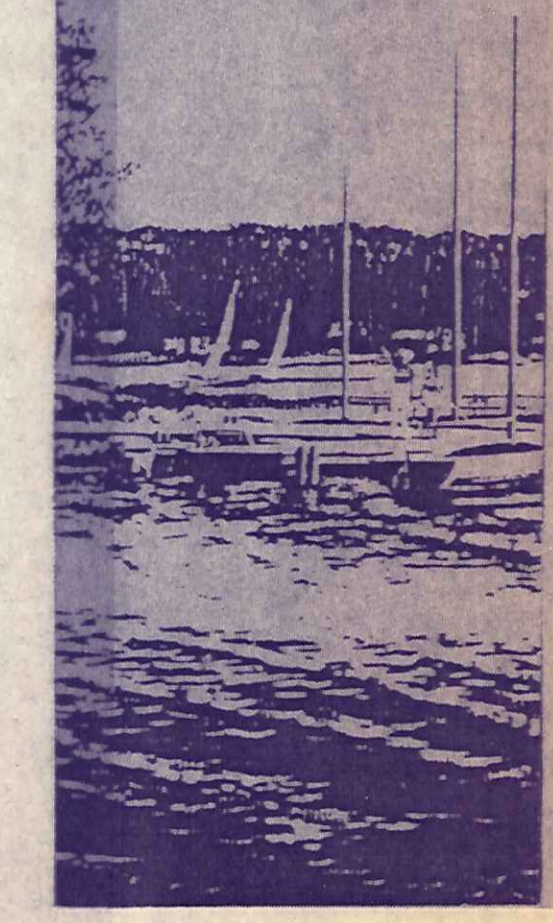
FOUNDATION PLAN

$V_{g1} = 1.0$

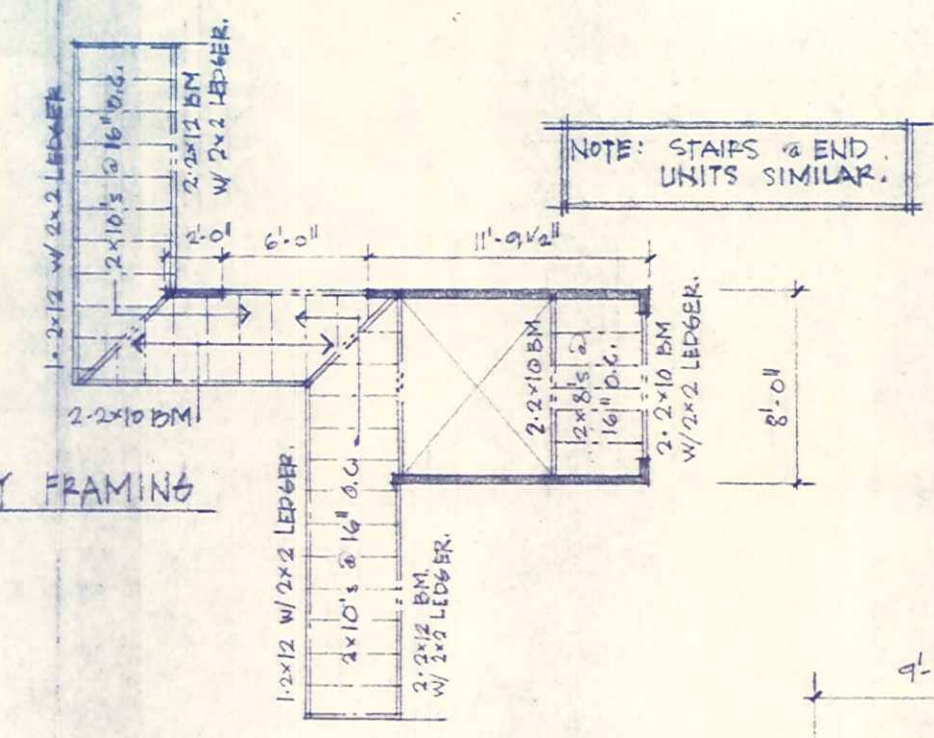


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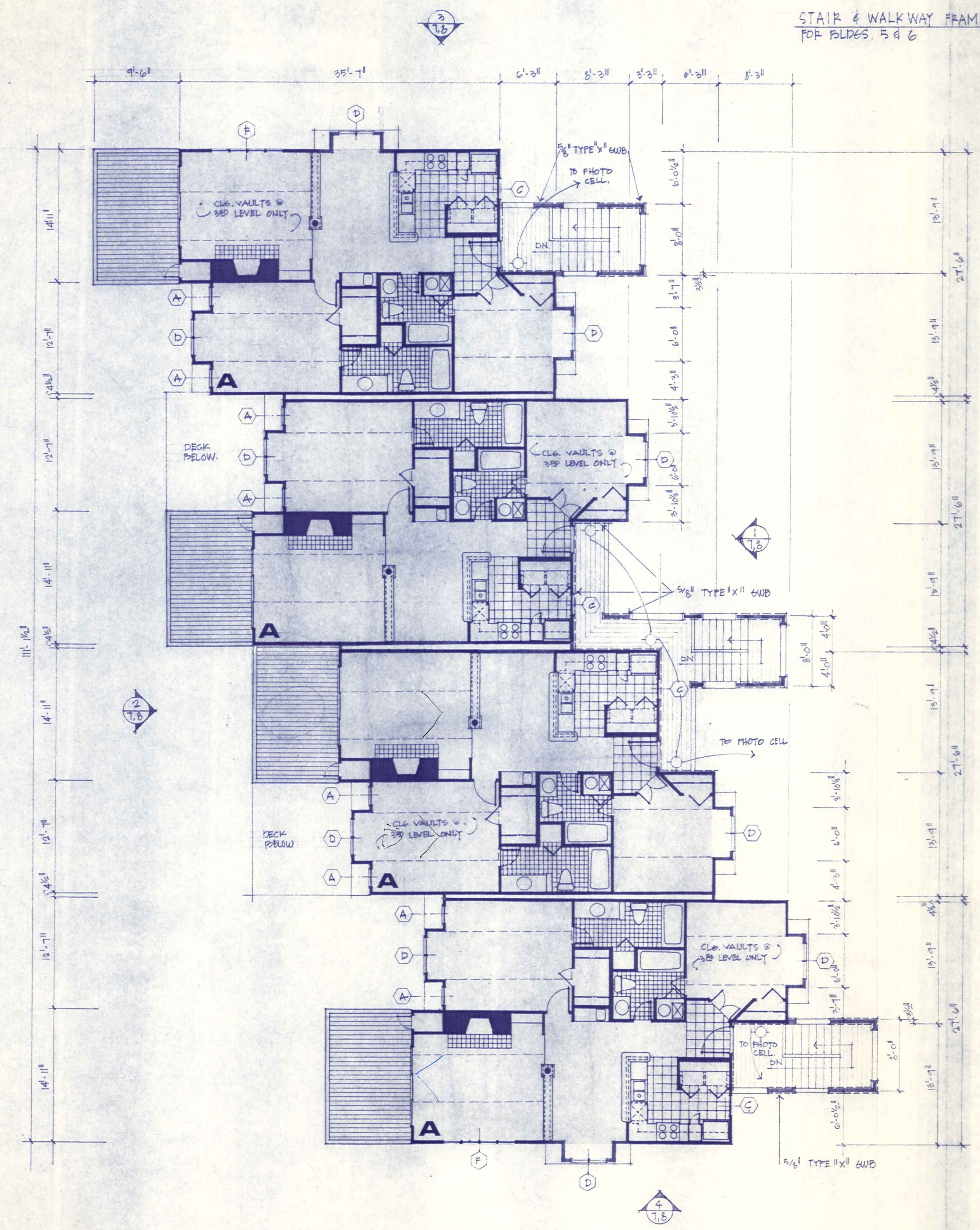
Portside 2



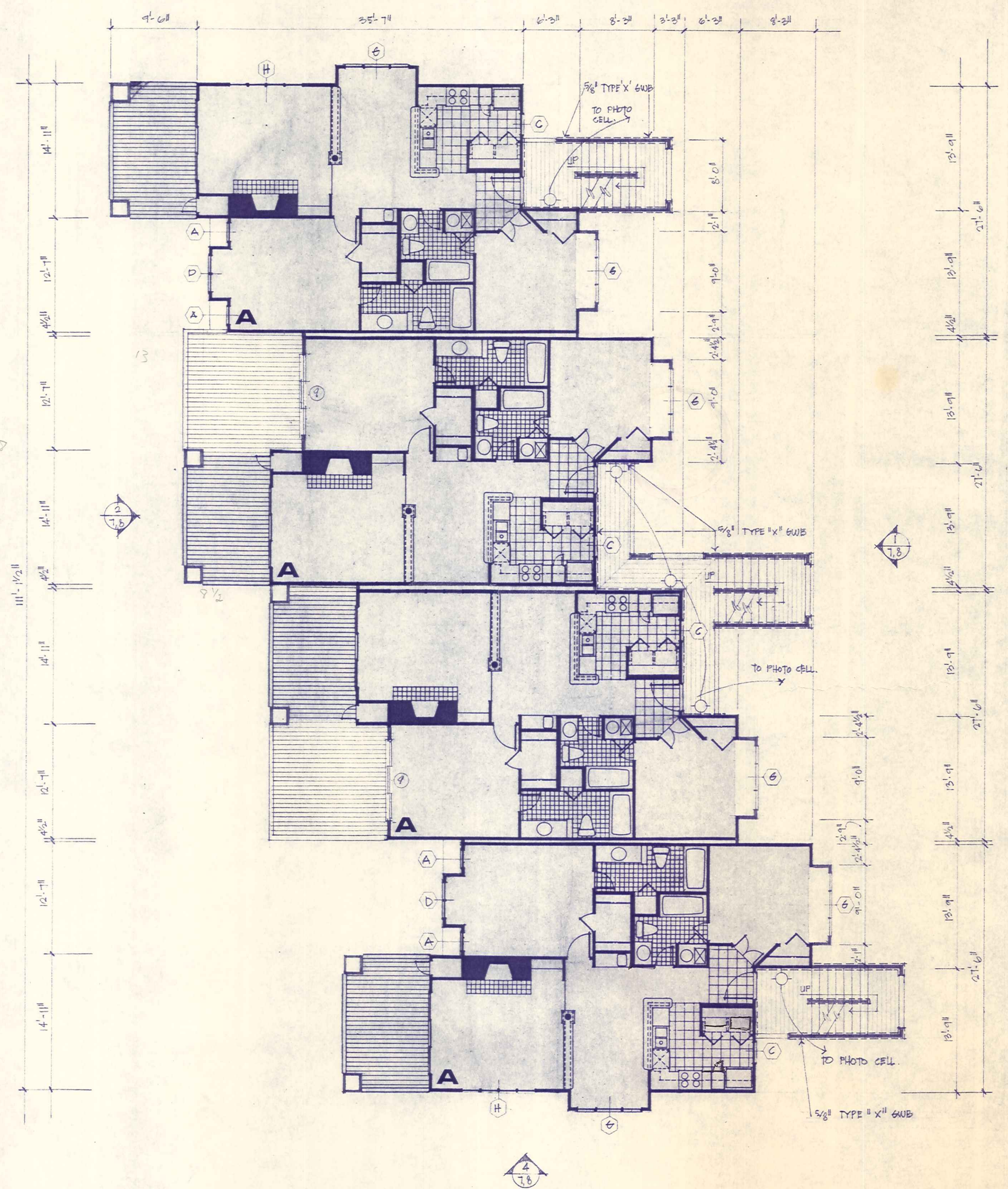
BLDG. 5, 6



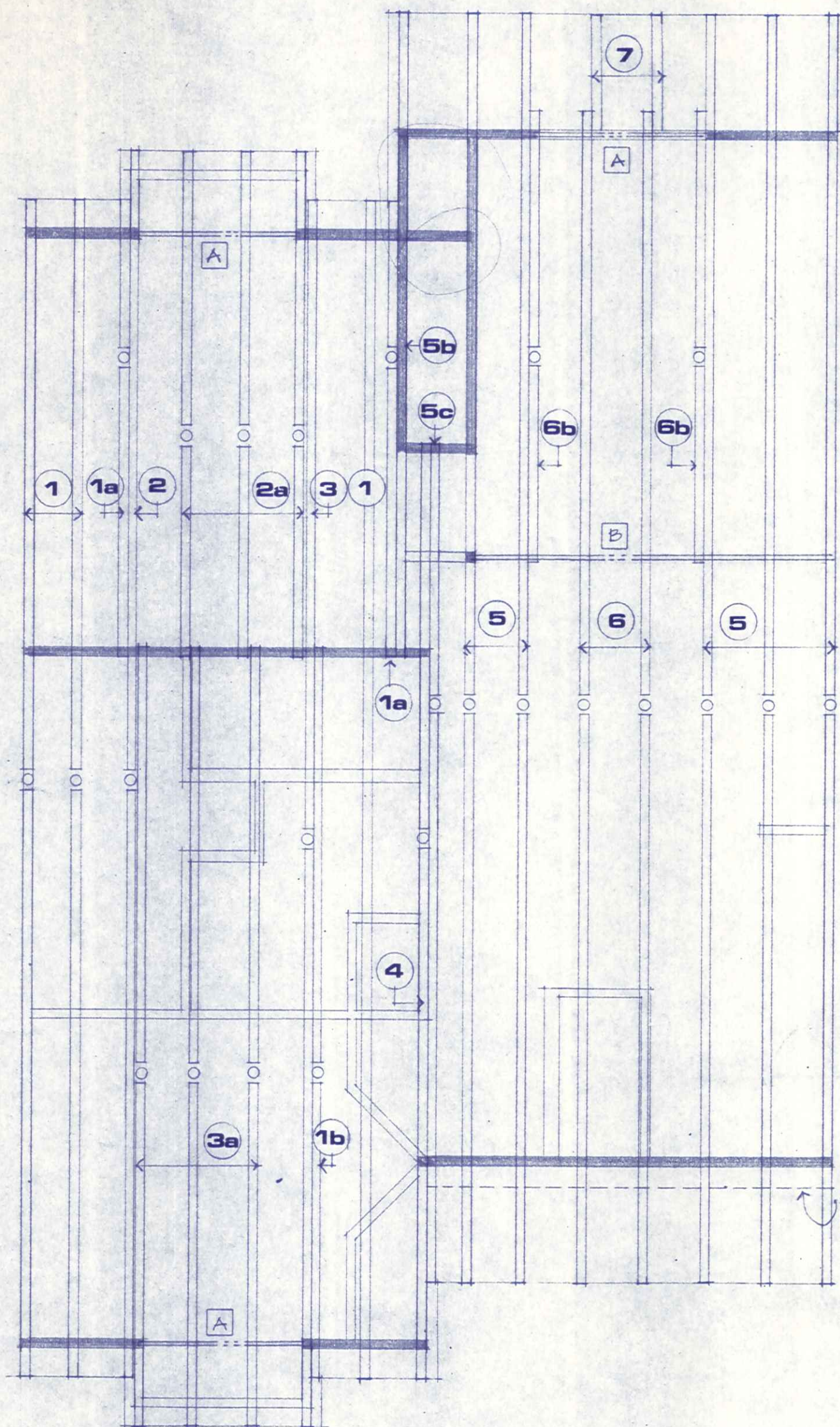
STAIR & WALKWAY FRAMING
FOR BLDGS. 5 & 6



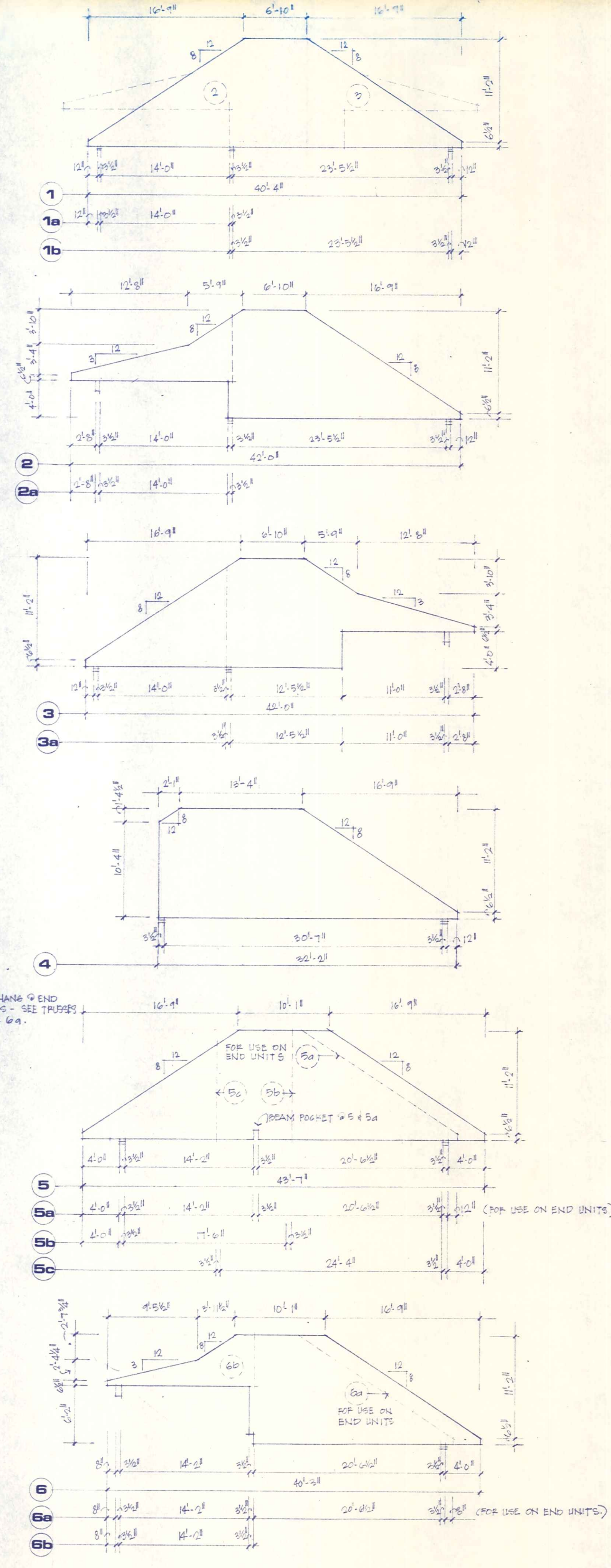
3
5
THIRD LEVEL BUILDING PLAN
1/8" = 1'-0"



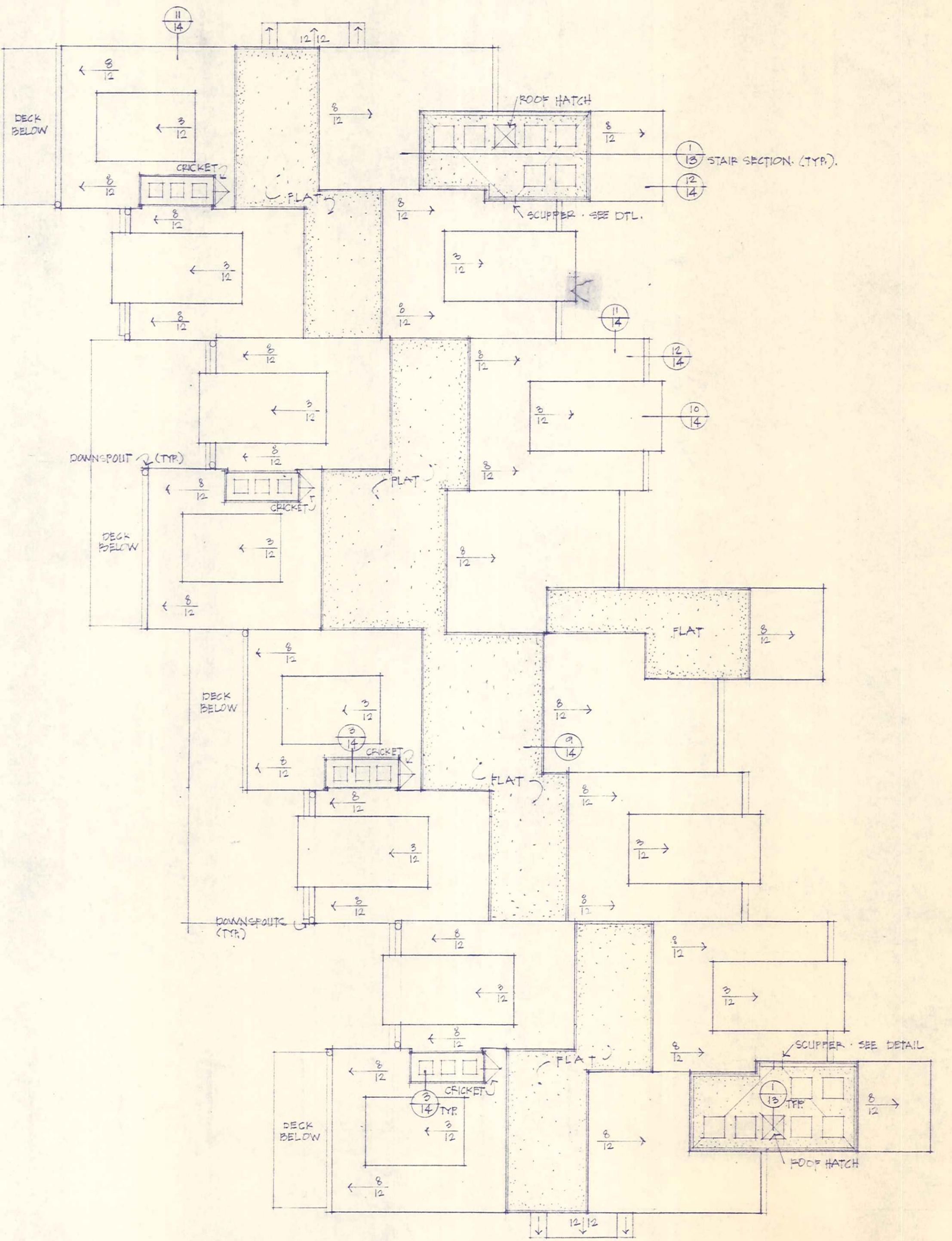
1
5
SECOND LEVEL BUILDING PLAN
1/8" = 1'-0"



2 UNIT "A" ROOF FRAMING.
 1/4" = 1'-0"



ROOF TRUSSES



1 ROOF PLAN
 1/4" = 1'-0"

Ventilators
 see elev.

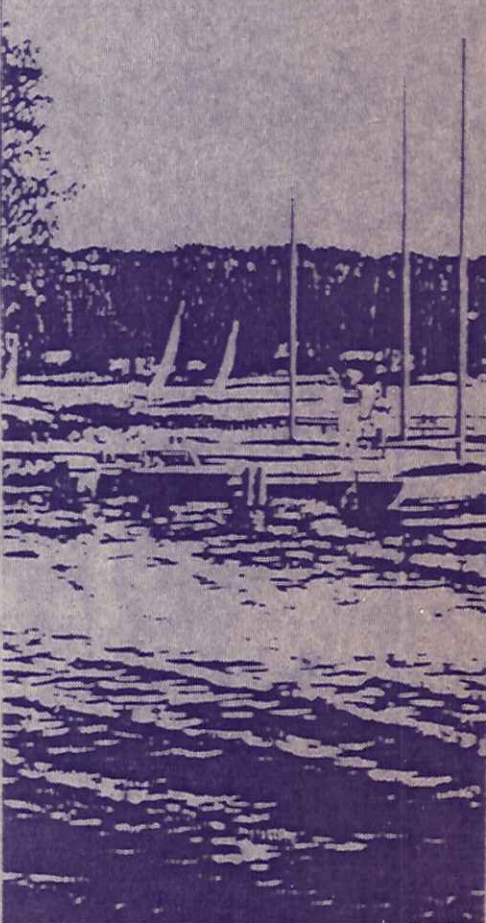
508
 east boulevard
 charlotte
 north carolina
 28203

332-2942



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Portside 2

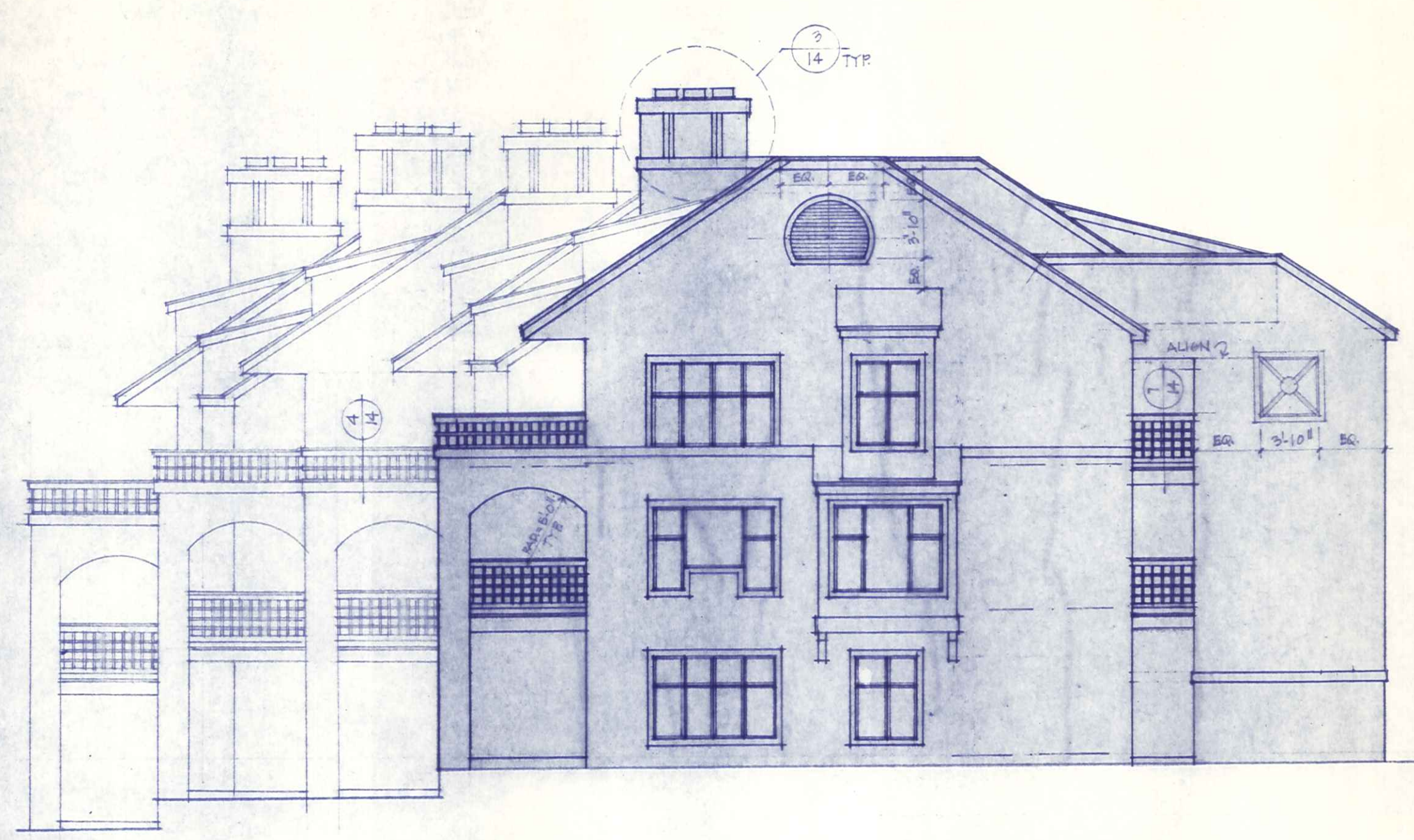


BLOG. 5, 6

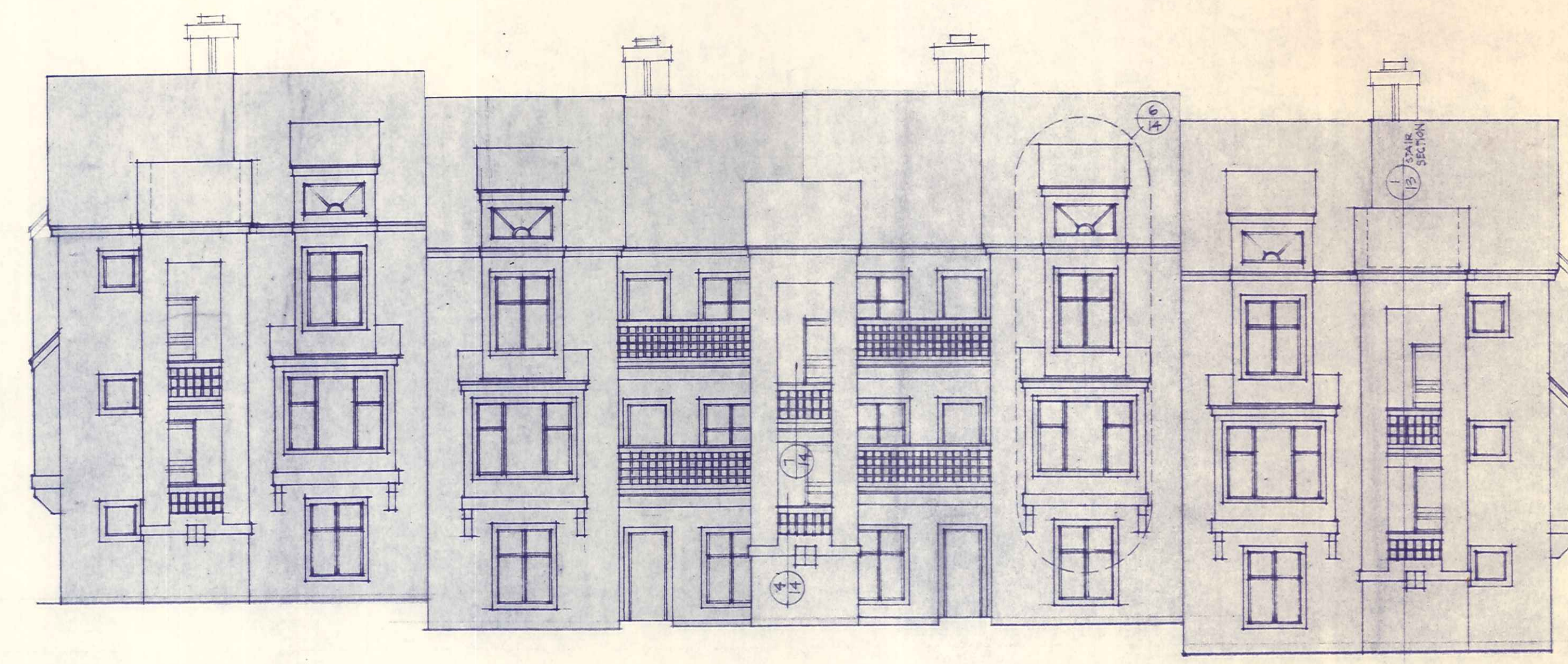


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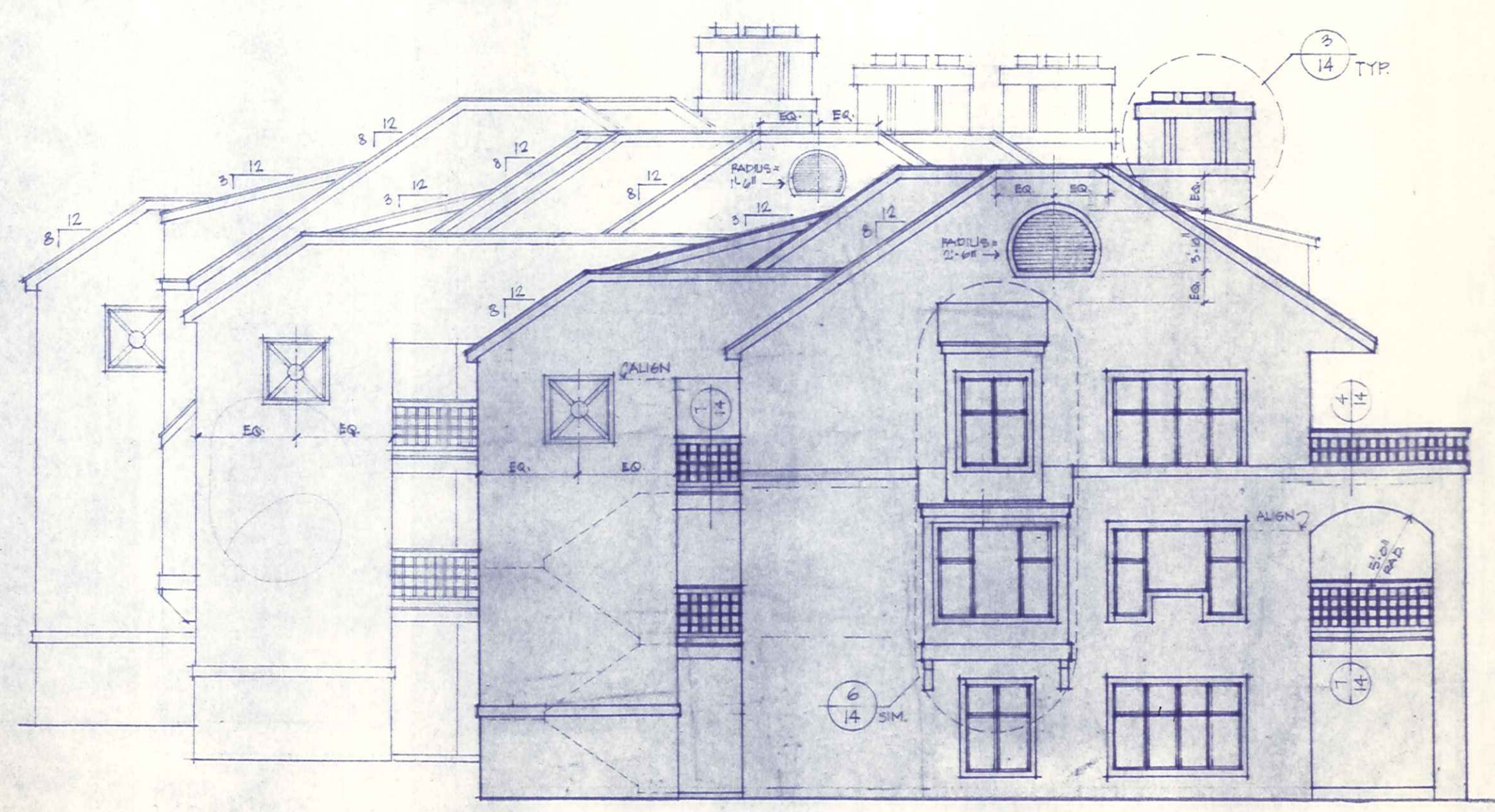
Portside 2



2 SIDE ELEVATION
1/8" = 1'-0"



1 ELEVATION FROM PARKING
1/8" = 1'-0"



4 SIDE ELEVATION
1/8" = 1'-0"

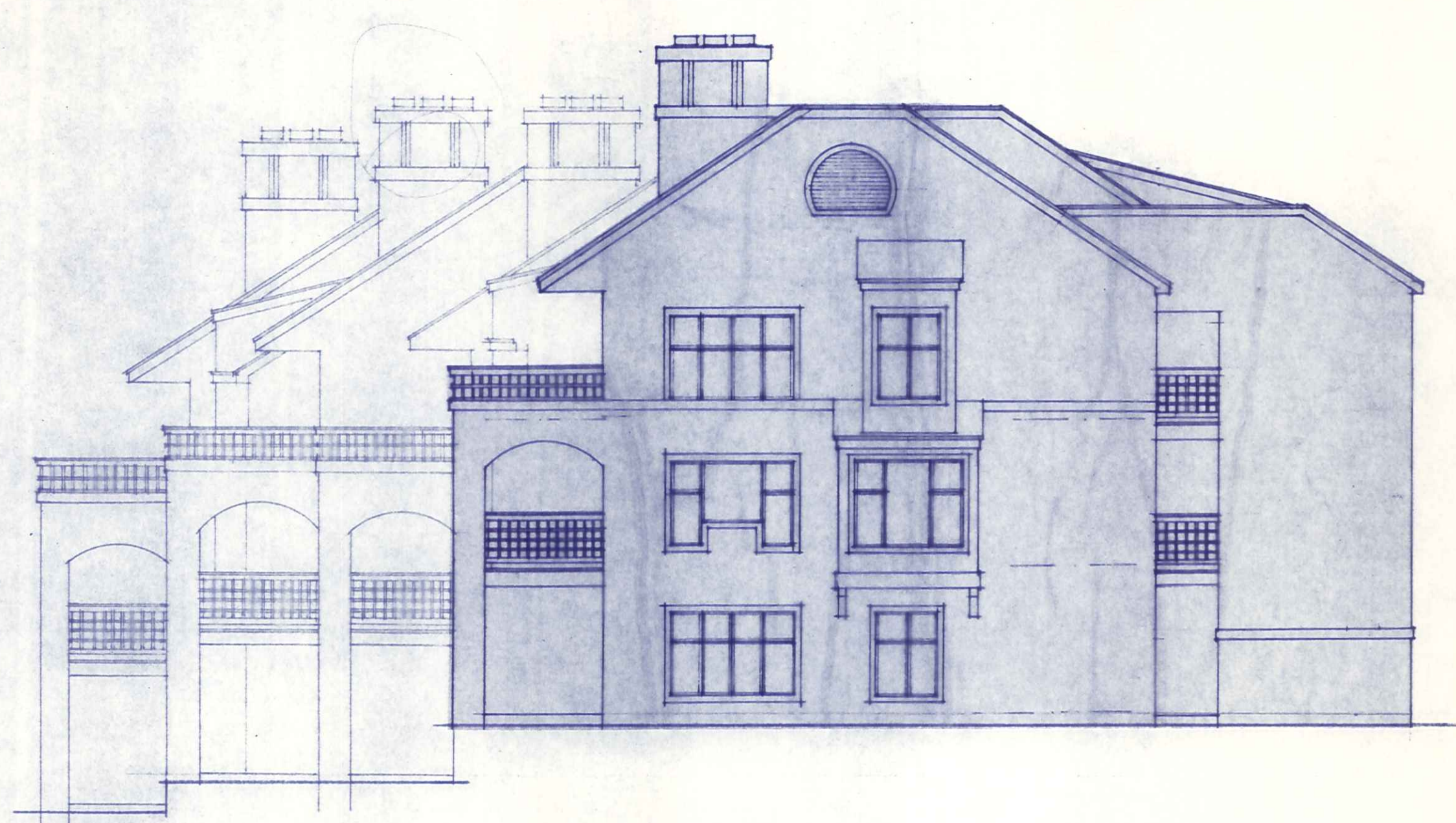
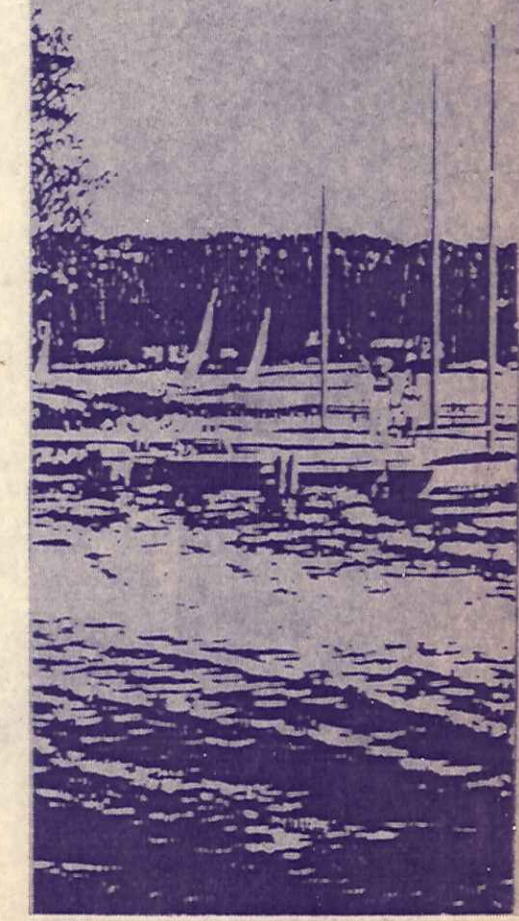
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5/22/1995



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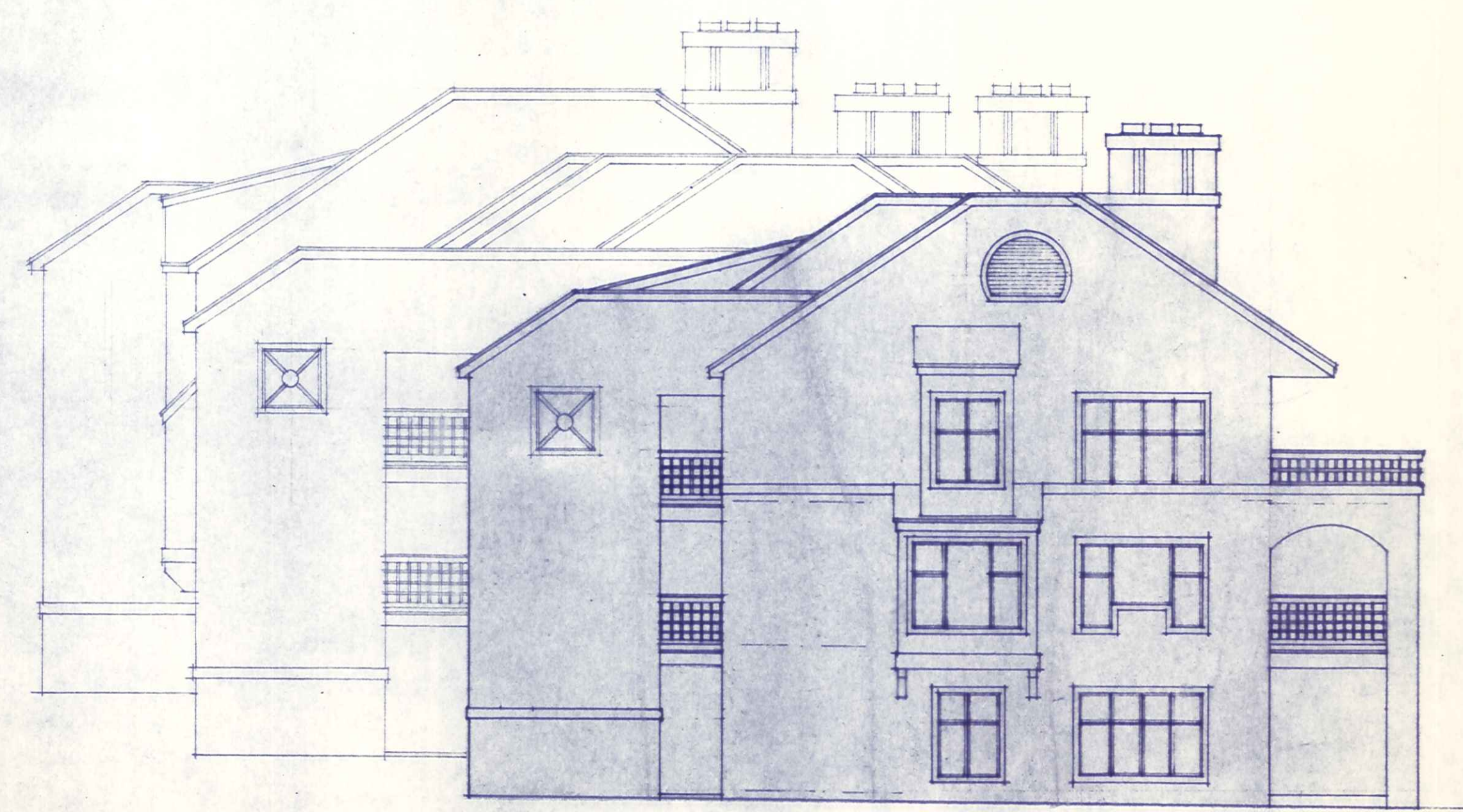
Portside 2



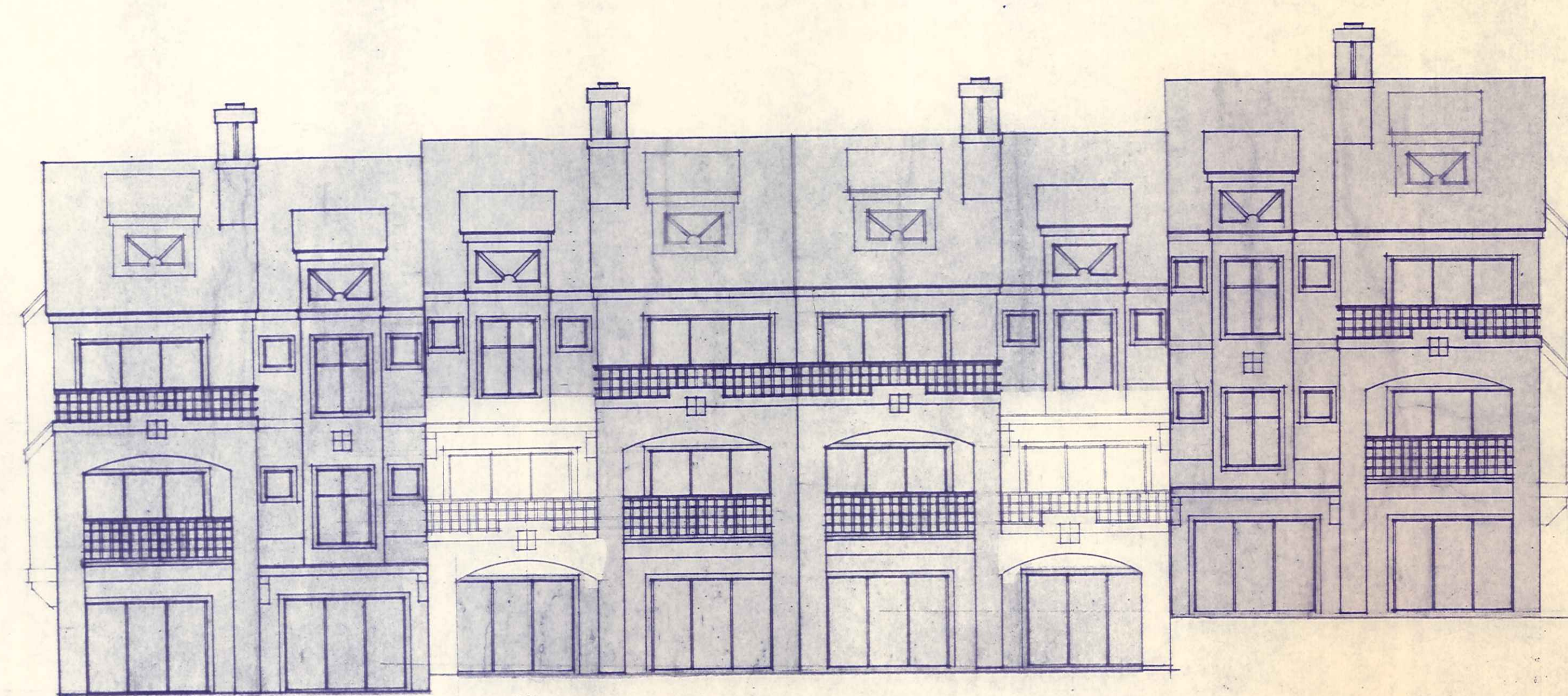
3 SIDE ELEVATION
1/8" = 1'-0"



1 ELEVATION FROM PARKING
1/8" = 1'-0"



4 SIDE ELEVATION
1/8" = 1'-0"



2 ELEVATION FROM LAKE
1/8" = 1'-0"



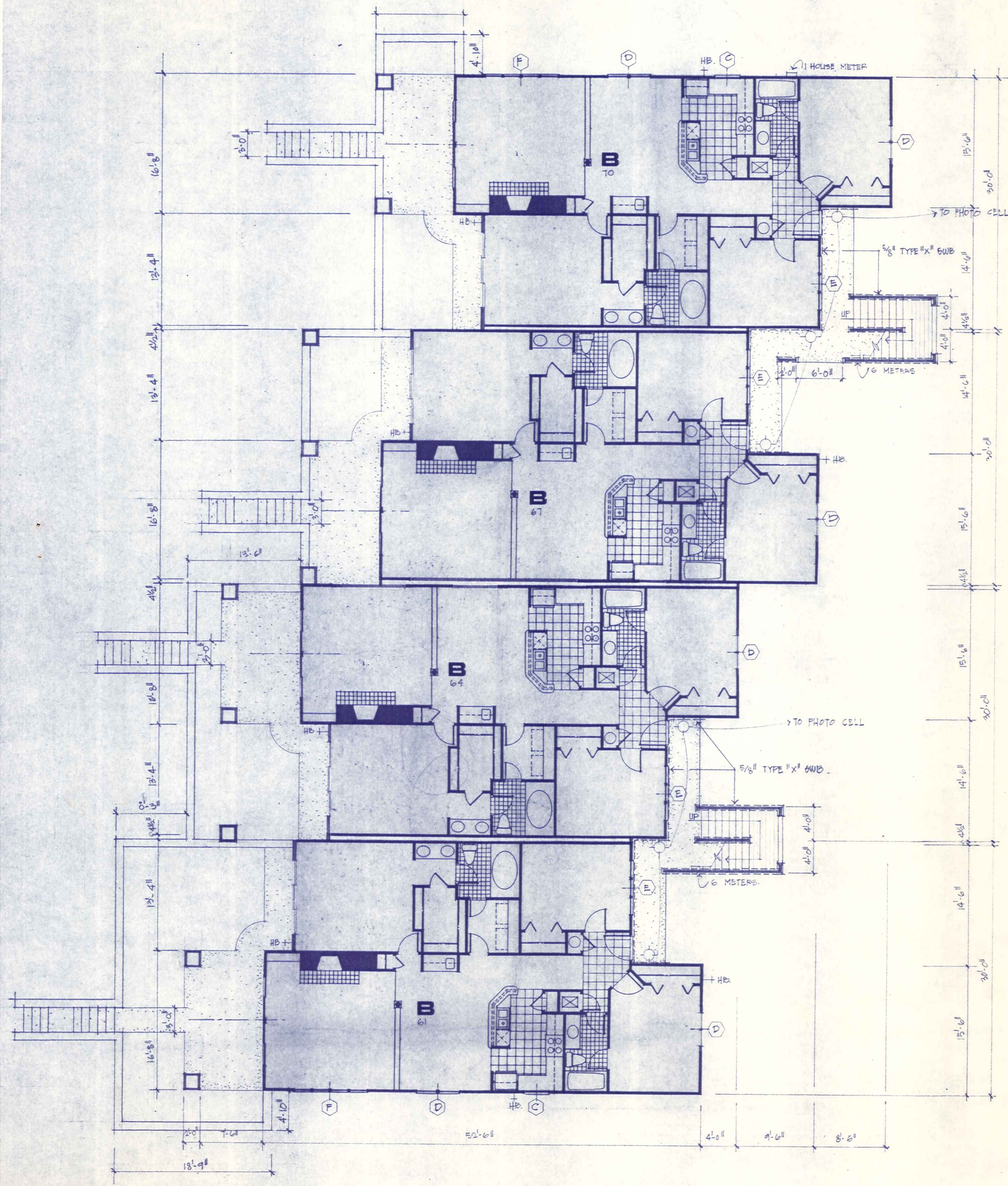
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Portside 2

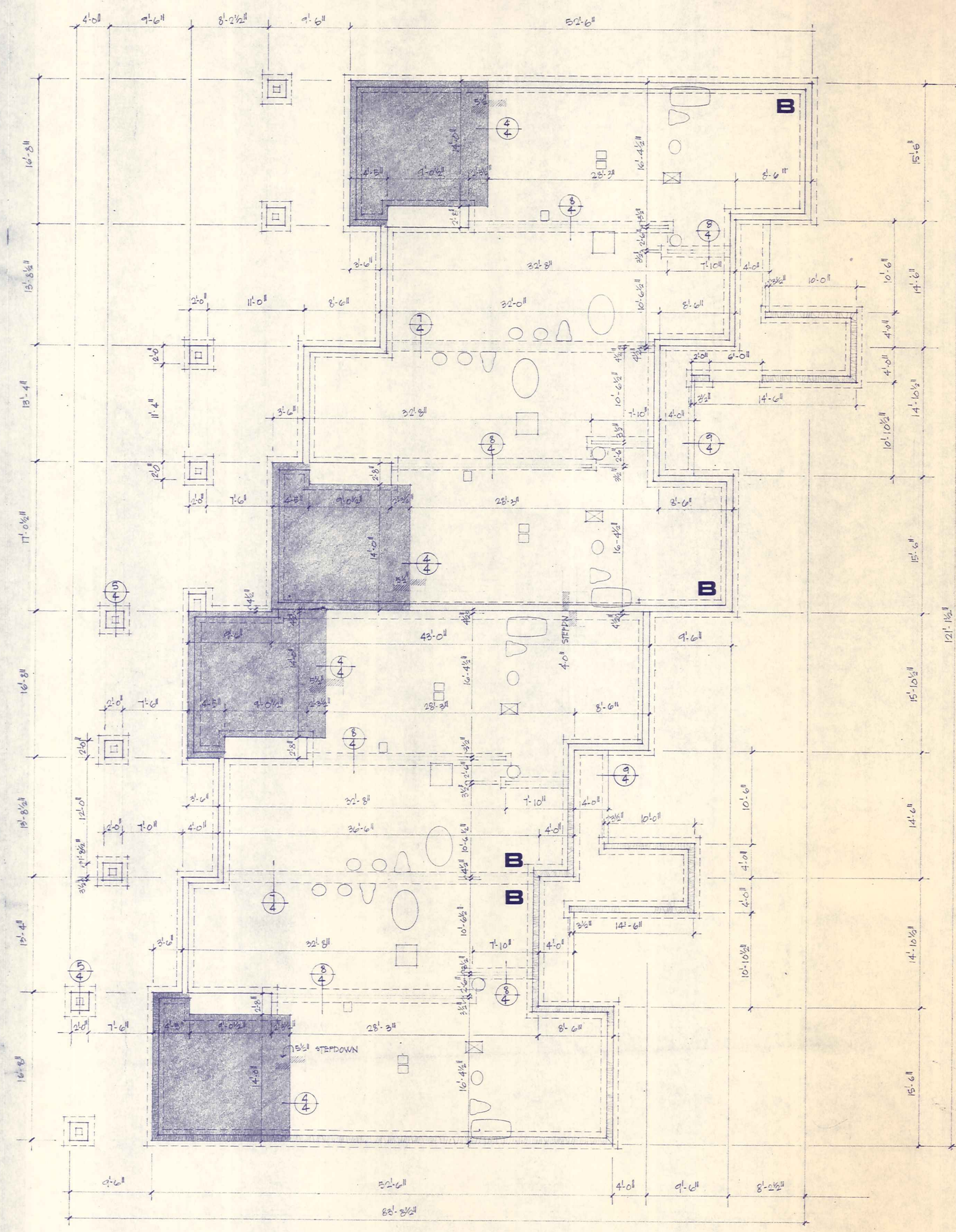


BLDG. 7

19



2 FIRST LEVEL BUILDING PLAN.
1/8" = 1'-0"



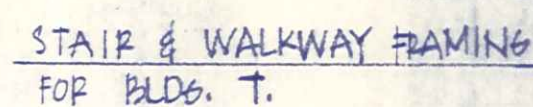
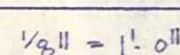
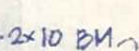
1 FOUNDATION PLAN
1/8" = 1'-0"

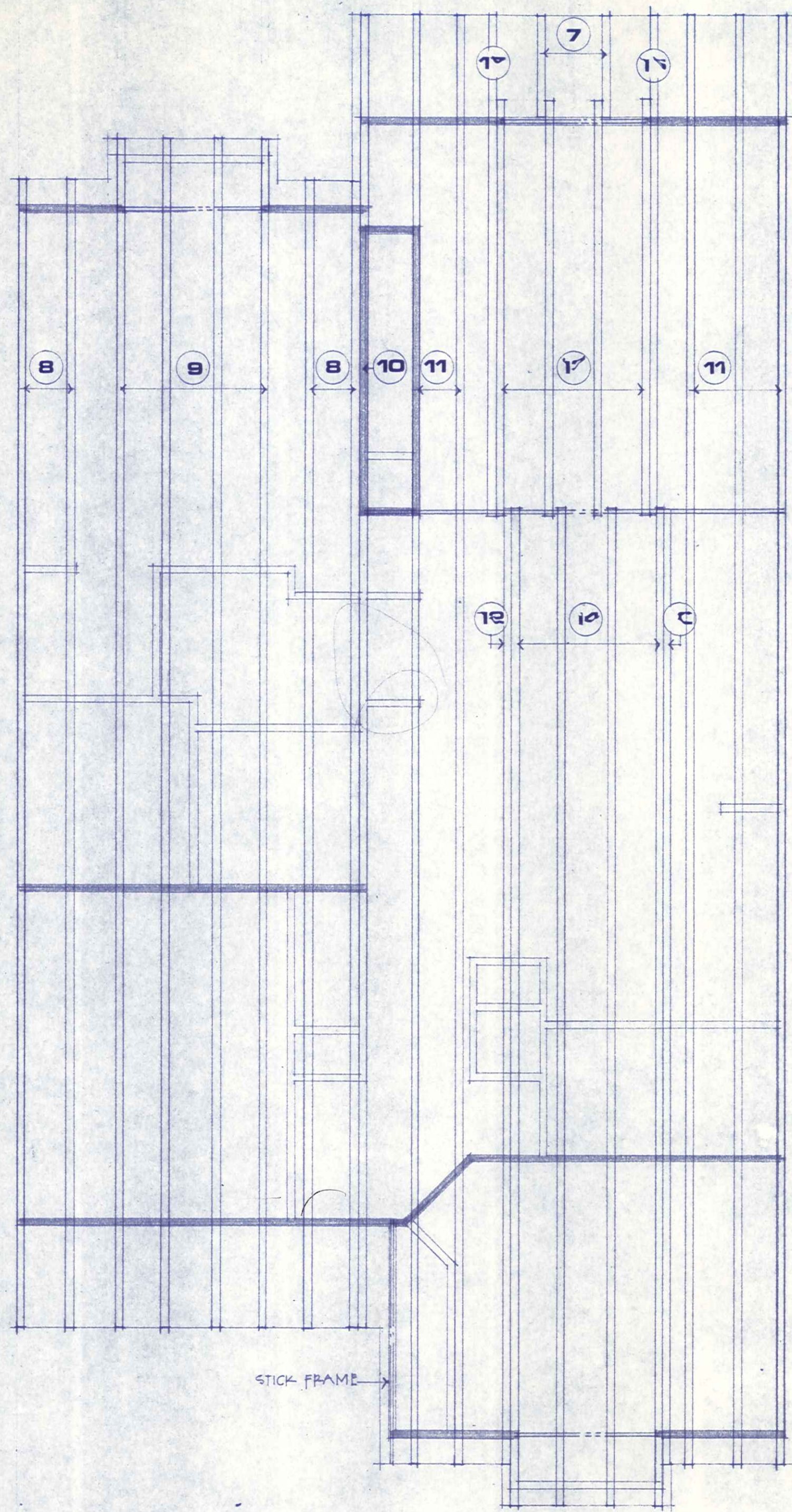
NOTE: SHADED AREA INDICATES STEP-DOWN



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Portside 2

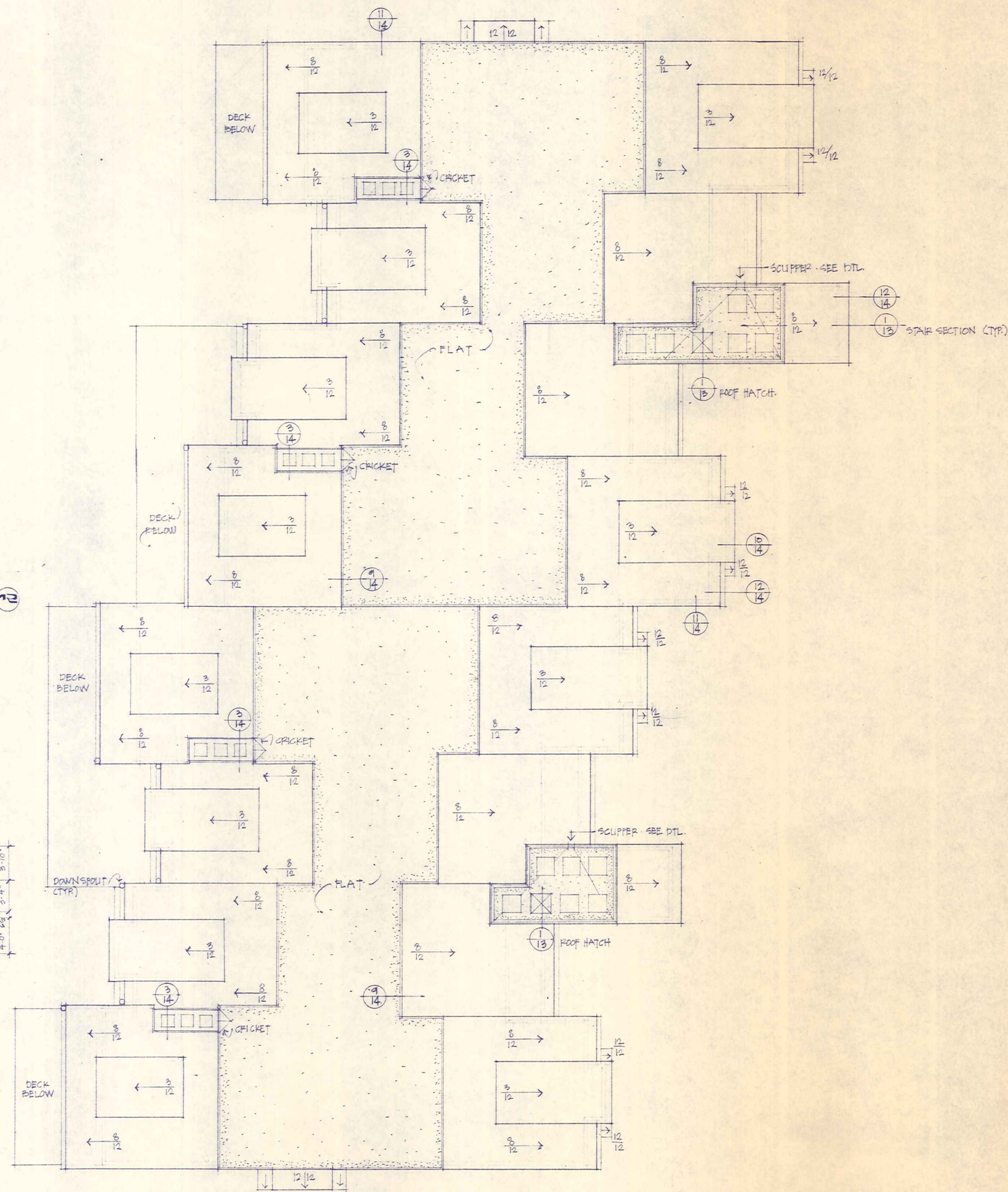
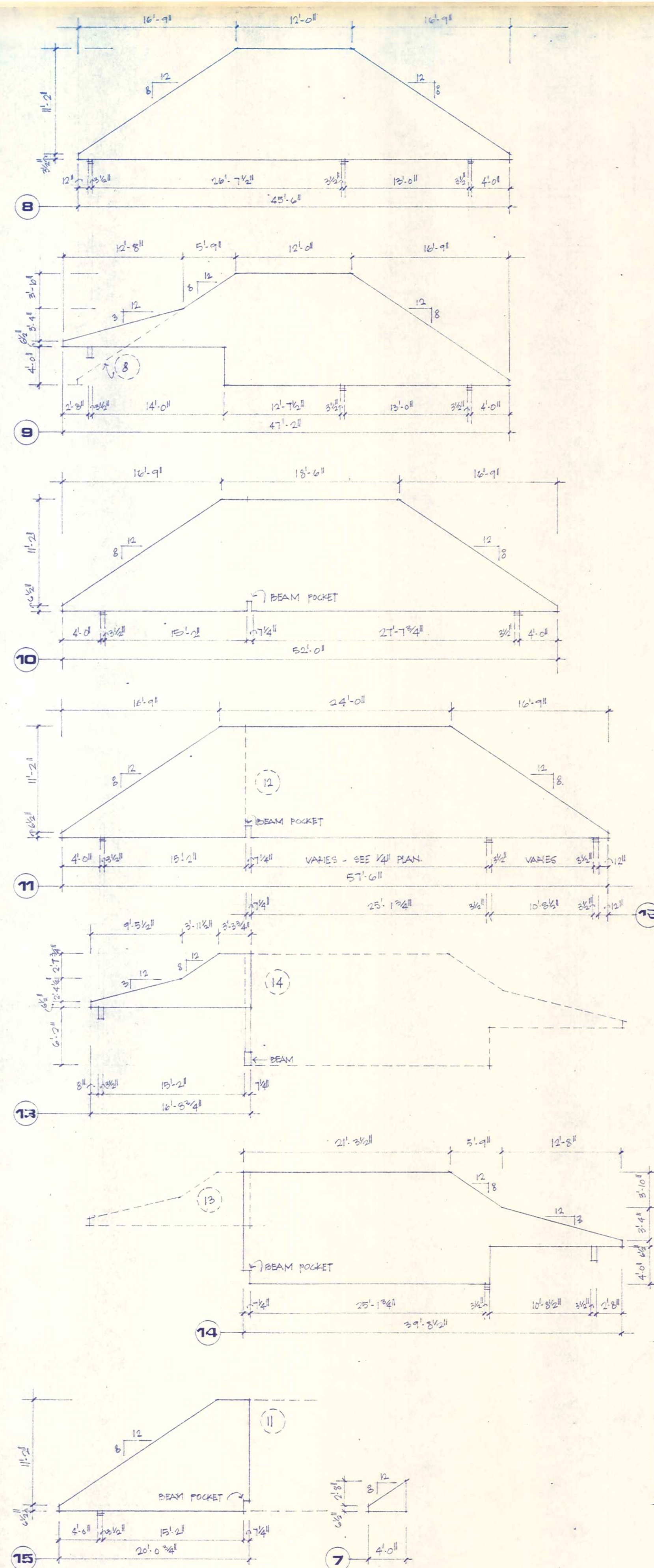

$$y_8'' = 1 - 0''$$




UNIT "B" ROOF FRAMING
1/4" = 1'-0"

NOTES:

- ALL TRUSSES 24" O.C.
- TRUSS MANUFACTURER SHALL VERIFY ALL DIMENSIONS AND PROVIDE STRUCTURAL DESIGN.
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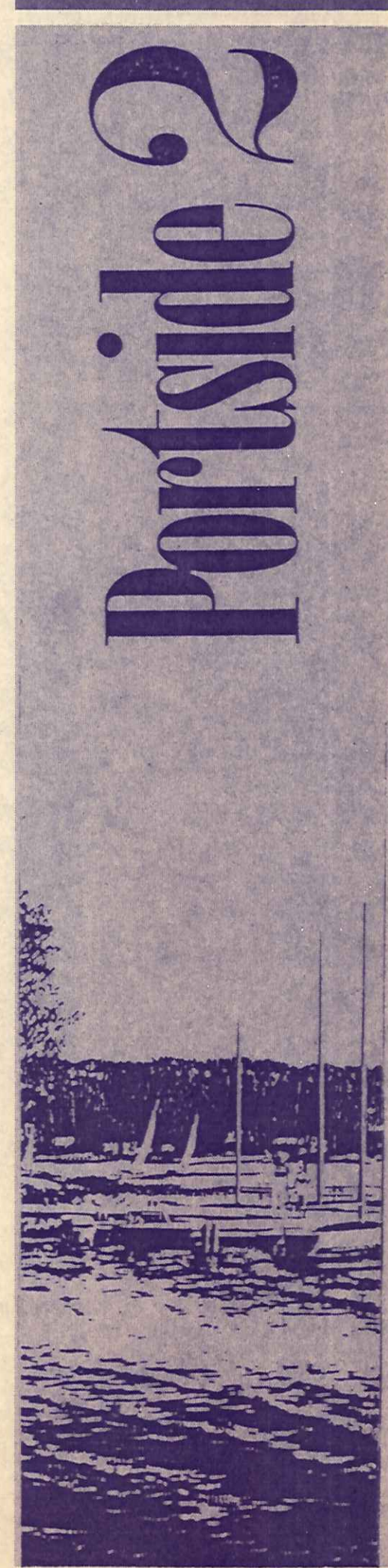


1 ROOF PLAN
1/8" = 1'-0"



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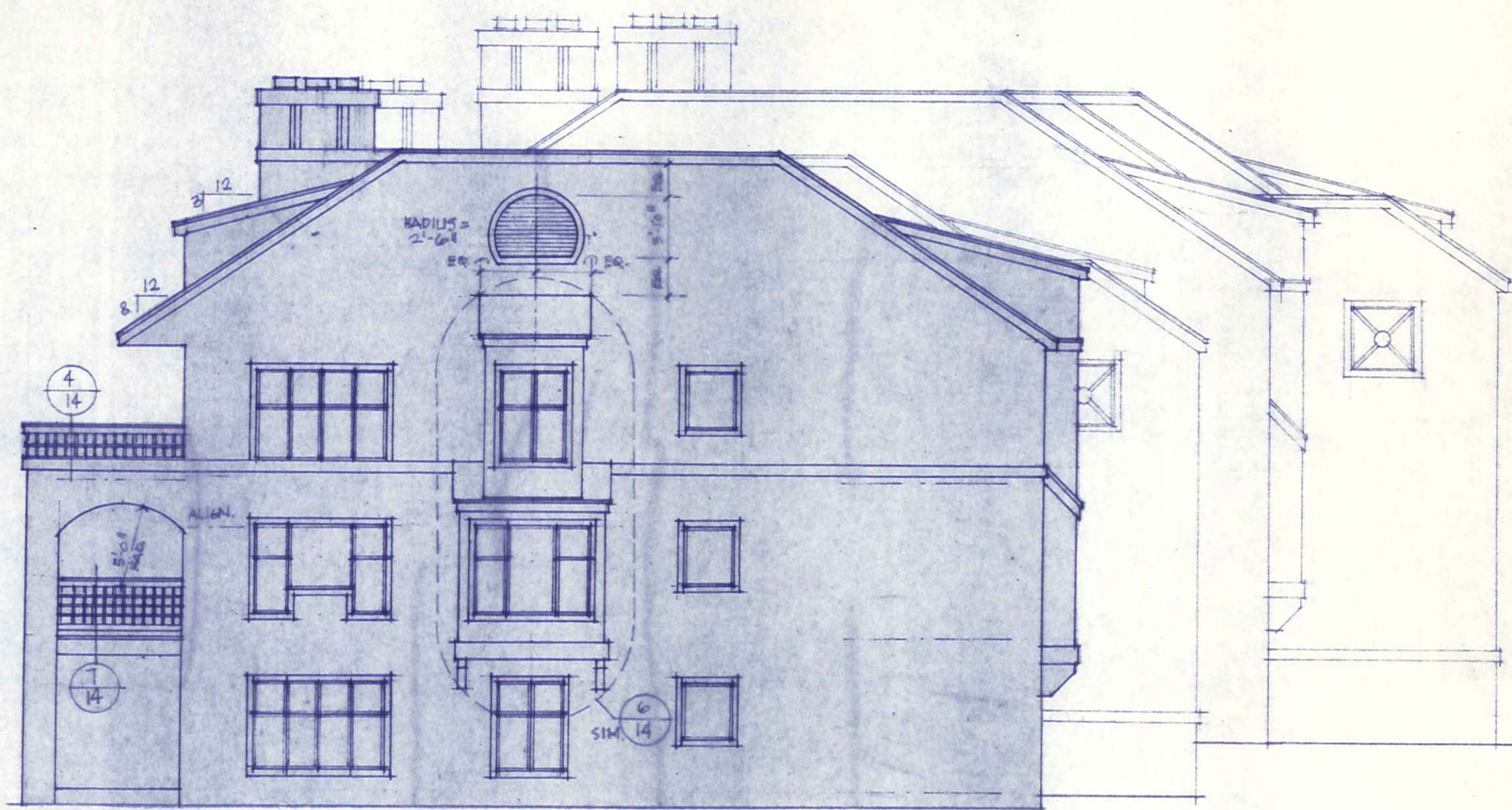
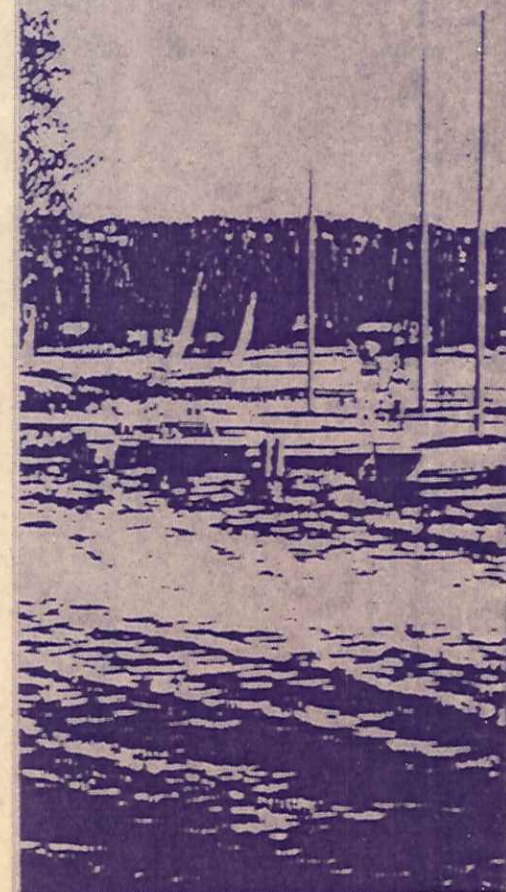
BLDG. 7



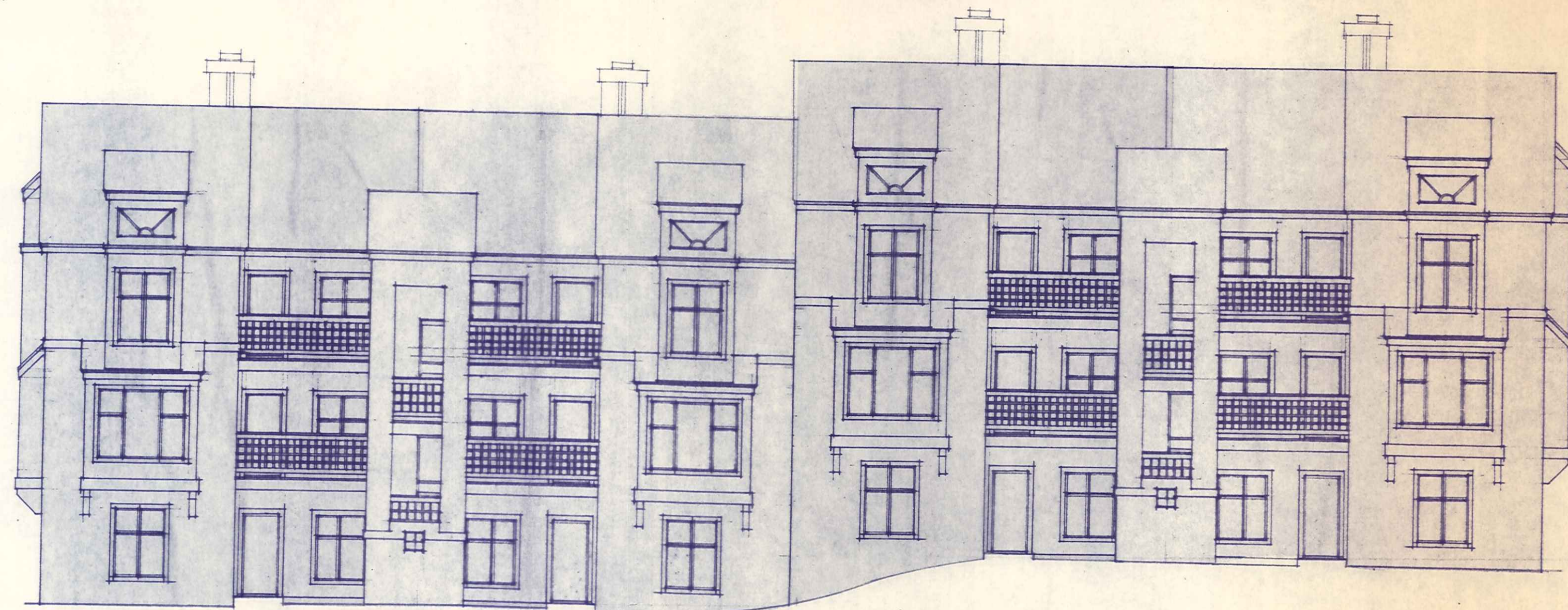
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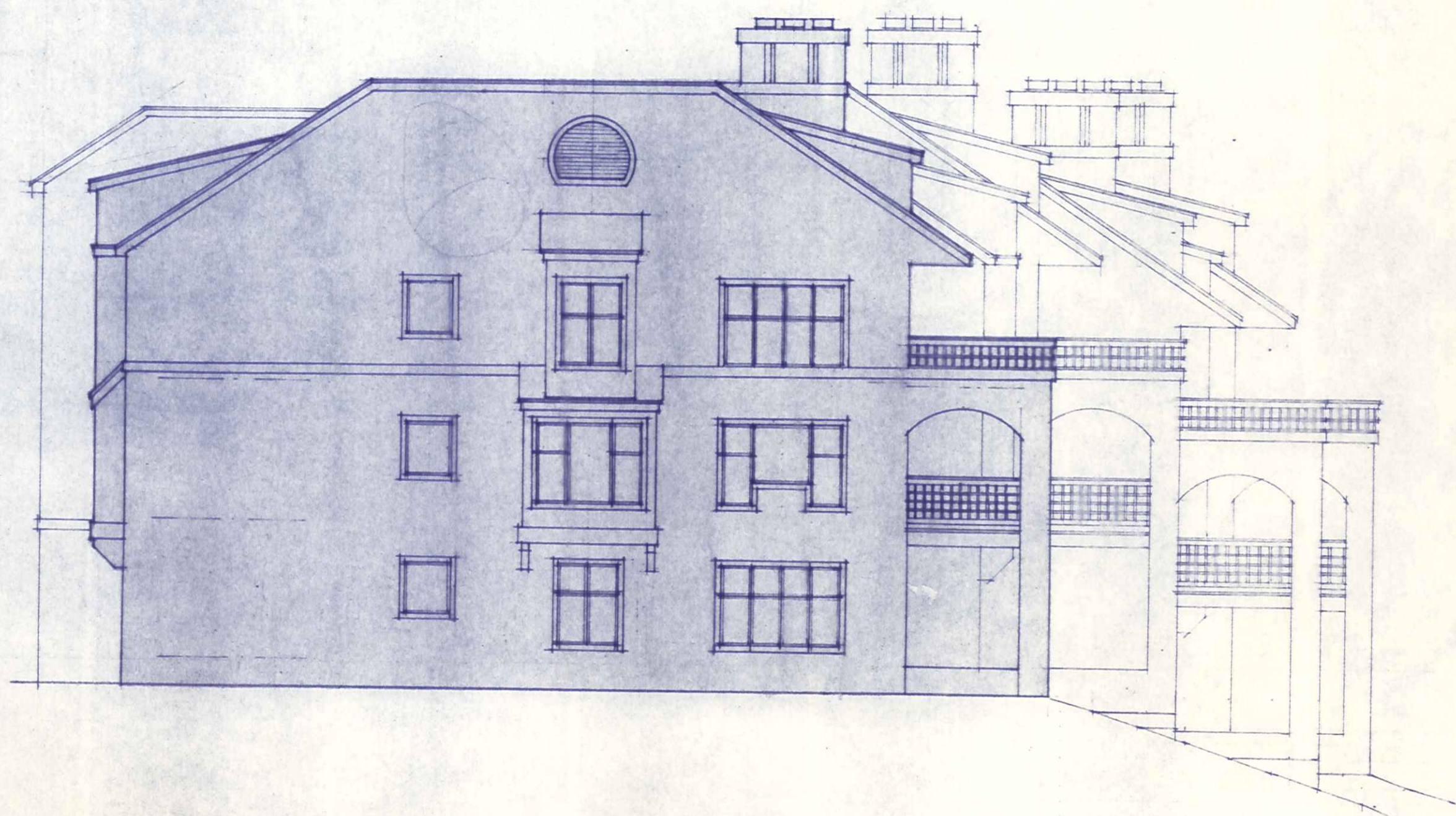
Portside 2



2 SIDE ELEVATION.
1/8" = 1'-0"



1 ELEVATION FROM PARKING
1/8" = 1'-0"



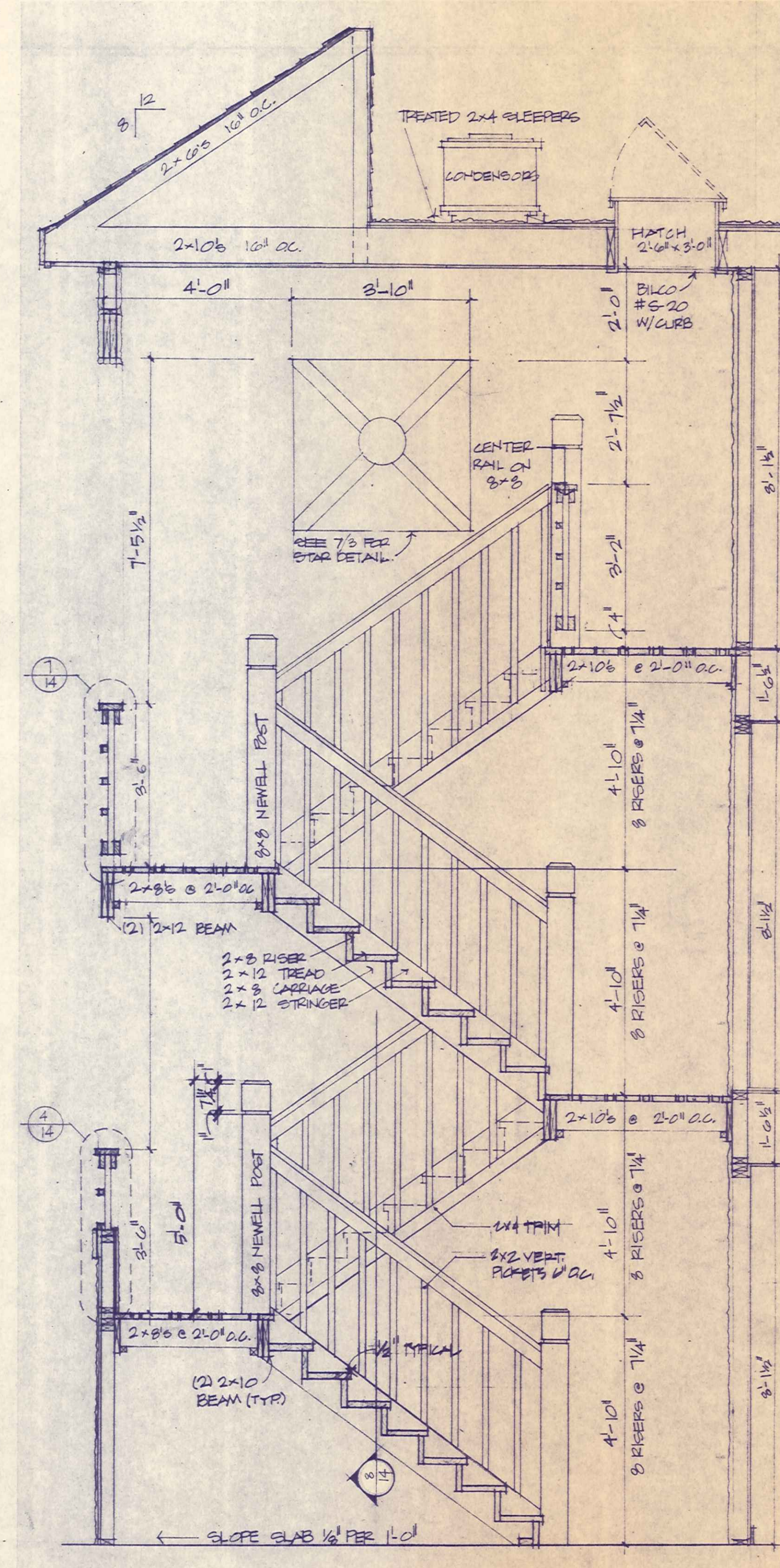
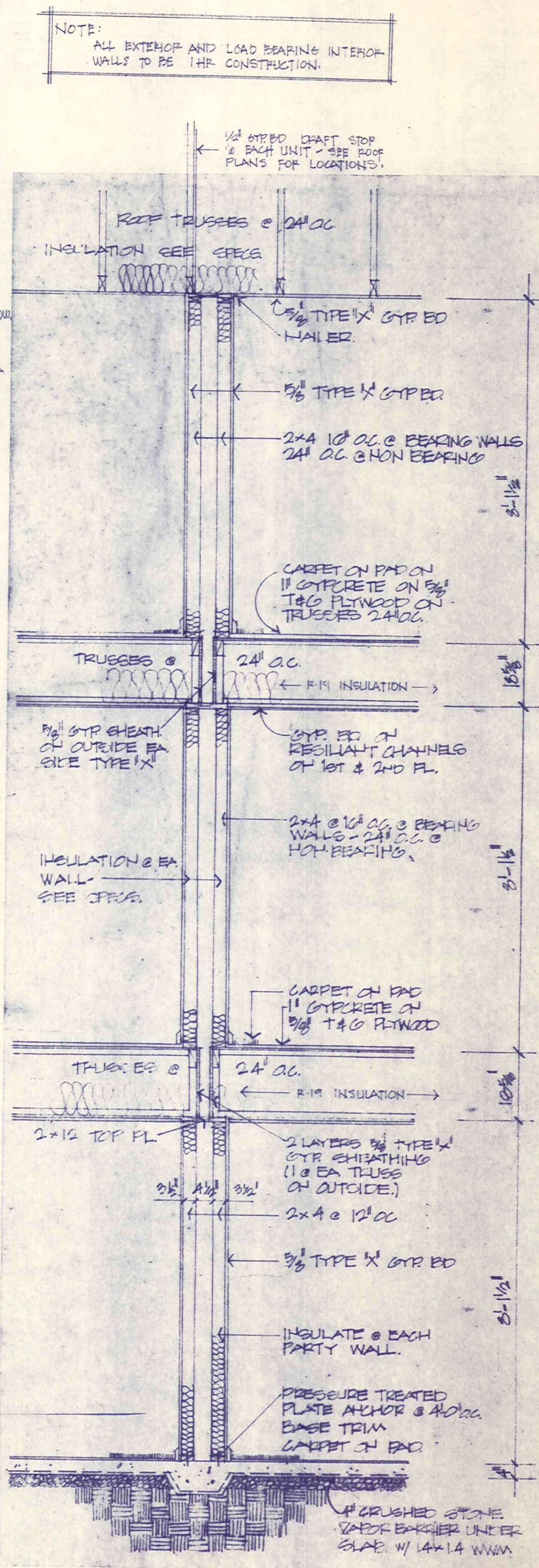
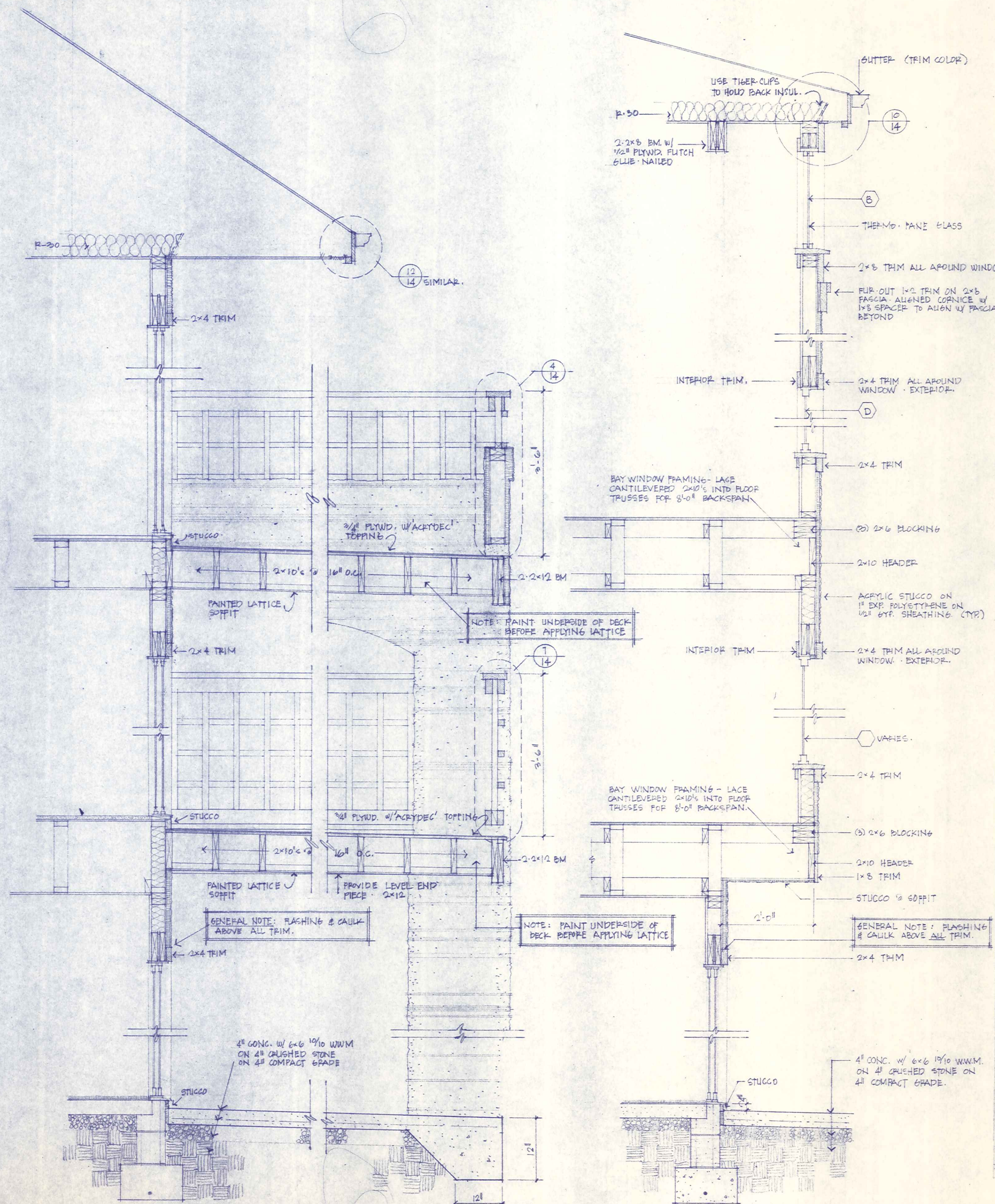
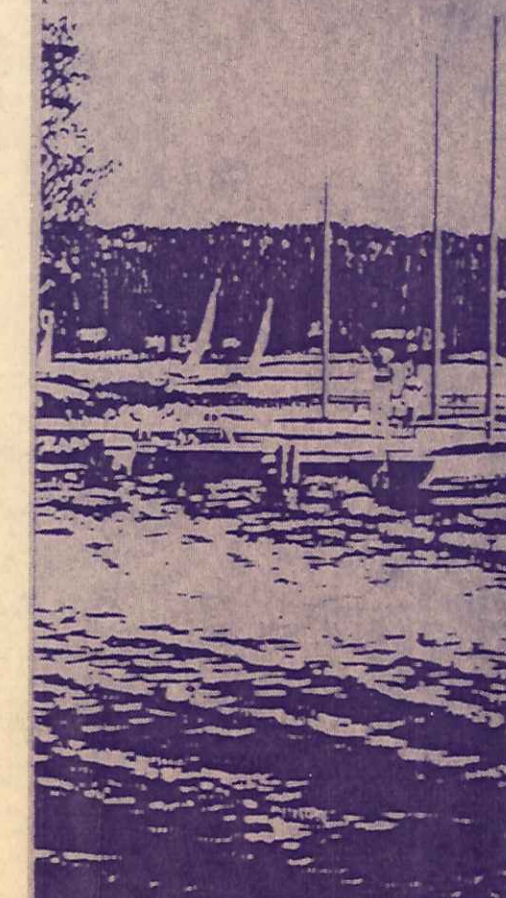
4 SIDE ELEVATION
1/8" = 1'-0"

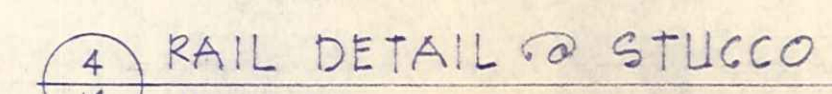
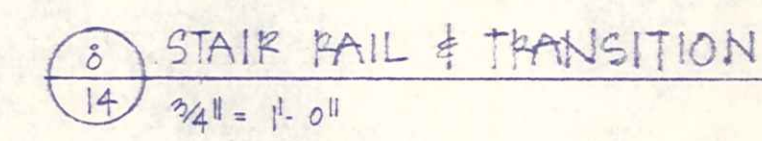
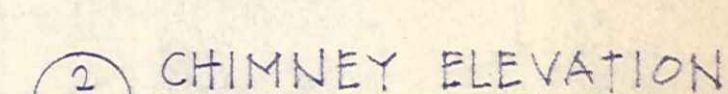
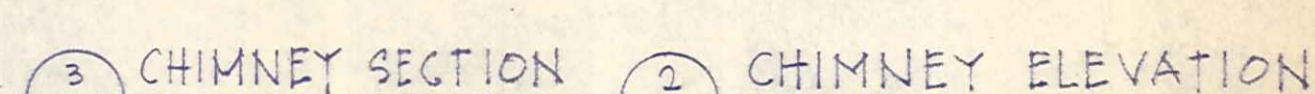
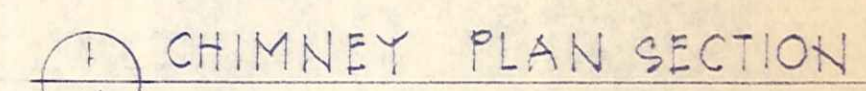
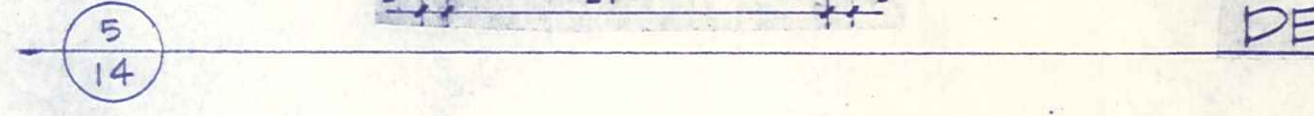
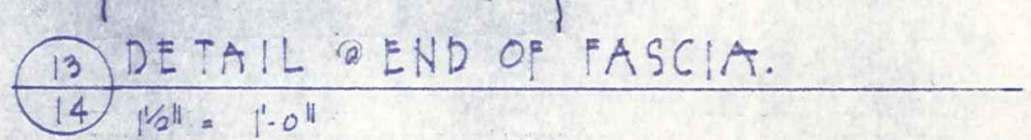
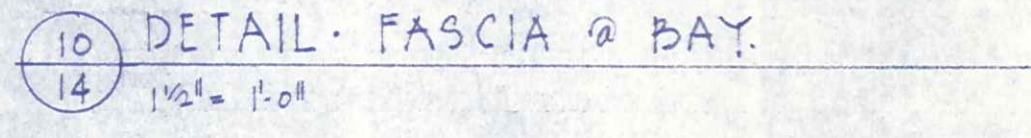
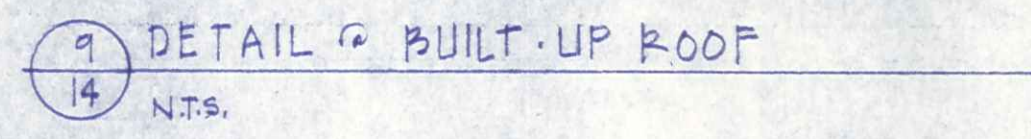


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Portside 2



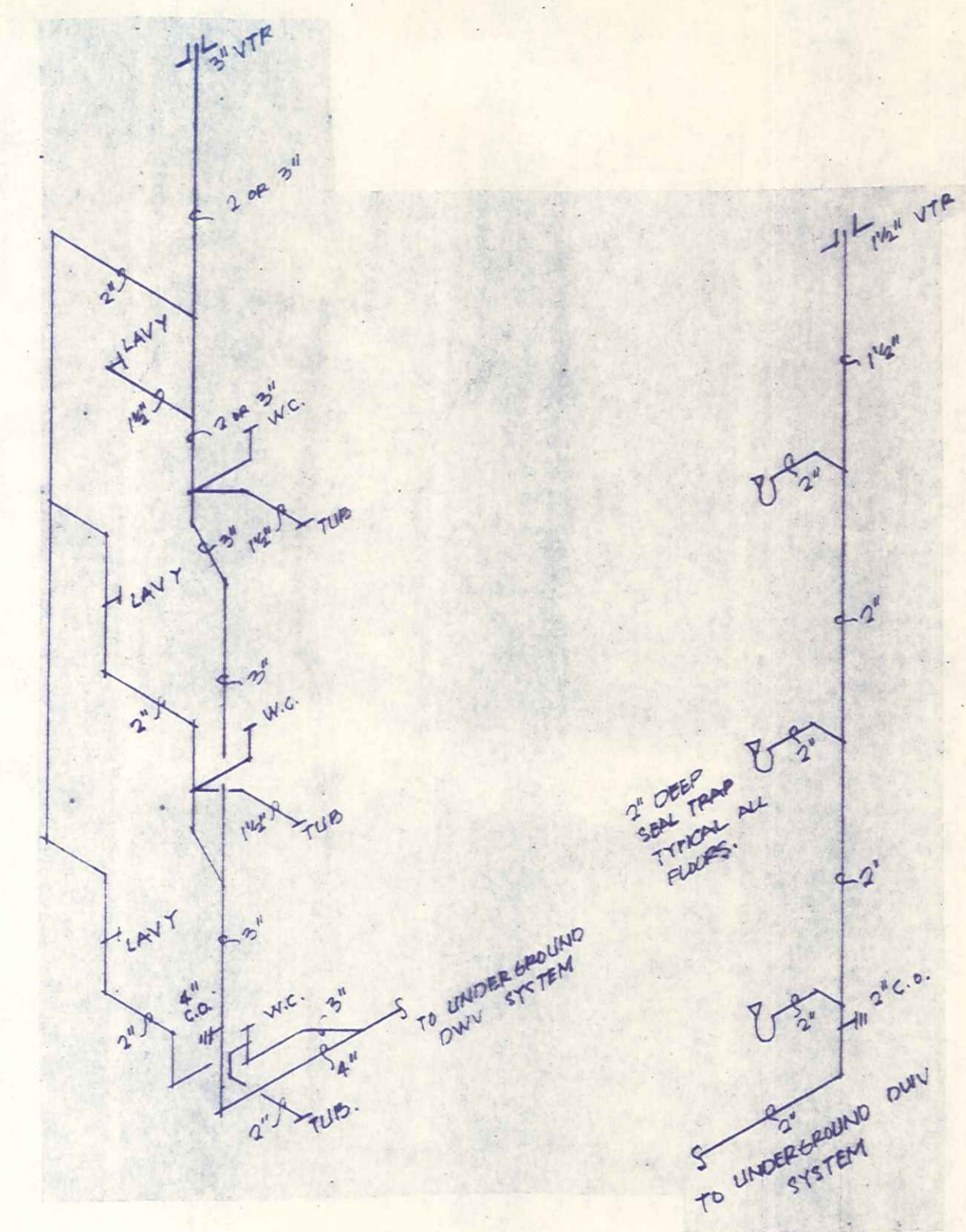
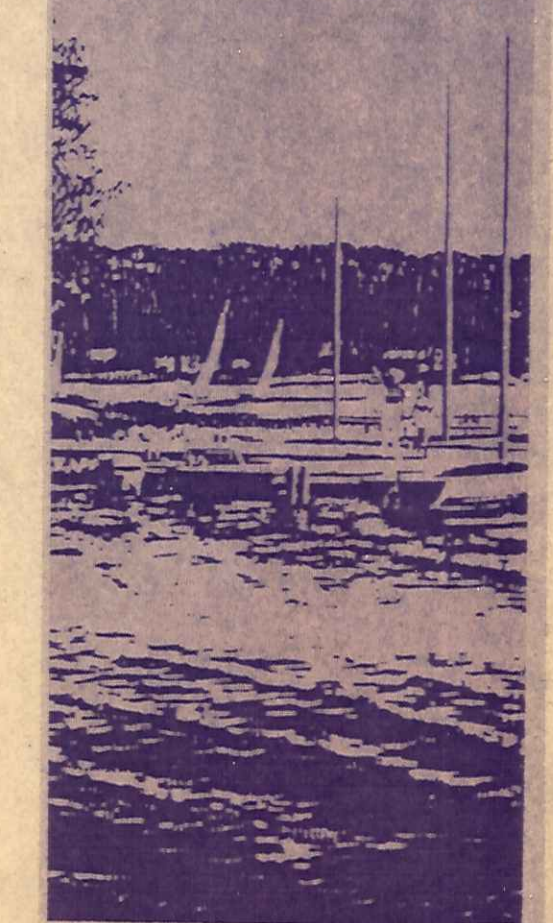




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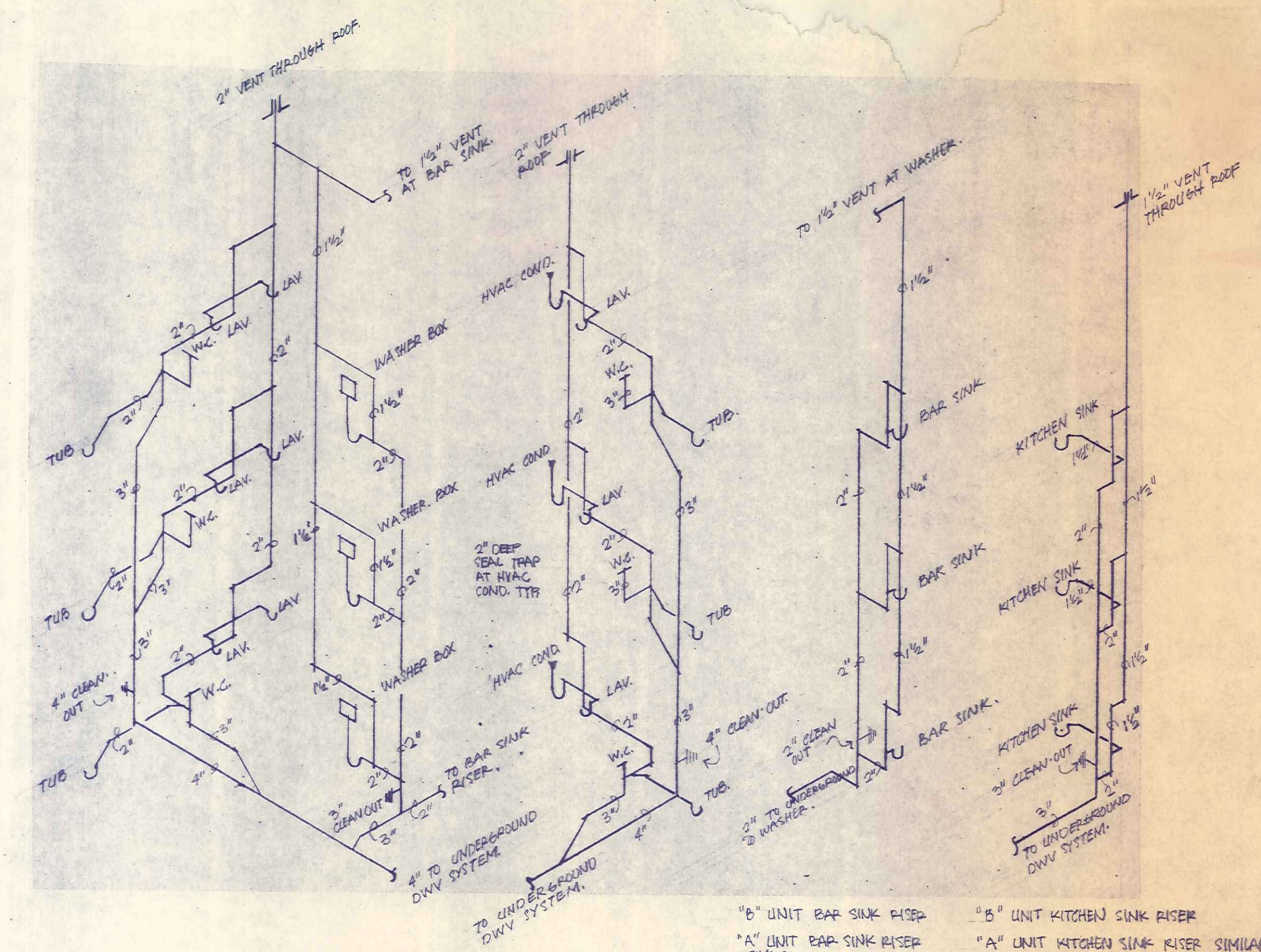
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Portside 2



"A" UNIT MASTER BATH RISER
"A" UNIT HALL BATH SIMILAR.

"A" UNIT HVAC & HWHT
POP-OFF RISER



"B" UNIT MASTER BATH AND
WASHER BOX RISER.
"A" UNIT WASHER BOX RISER
SIMILAR.

"B" UNIT HALL BATH AND
HVAC COND. RISER.

"B" UNIT BAR SINK RISER
"A" UNIT BAR SINK RISER
SIMILAR.

"B" UNIT KITCHEN SINK RISER
"A" UNIT KITCHEN SINK RISER SIMILAR.