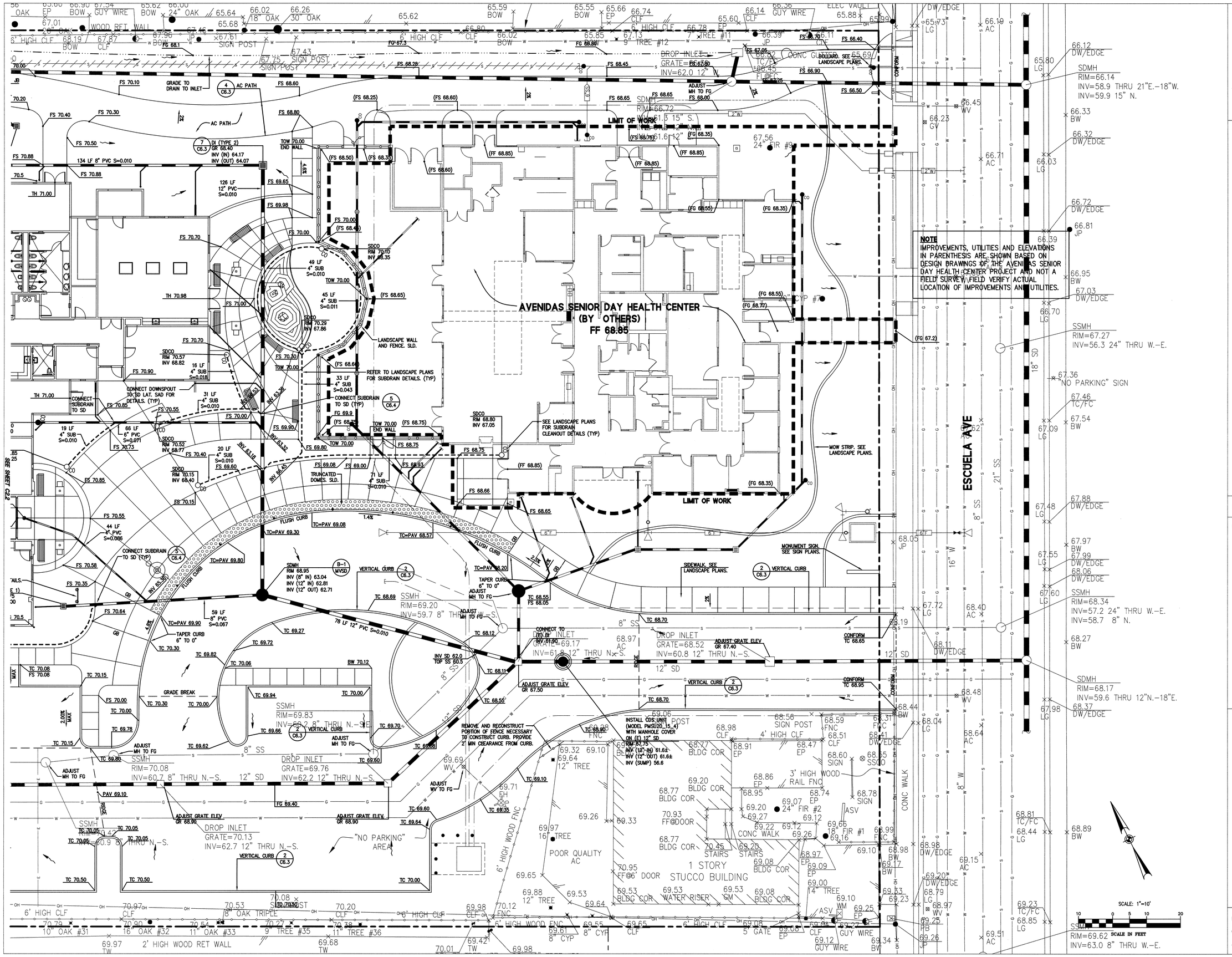

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MOUNTAIN VIEW SENIOR CENTER

266 ESCUELA AVENUE
MOUNTAIN VIEW, CA

DATE: APRIL 18, 2005

REVISIONS:

CONSTRUCTION SET

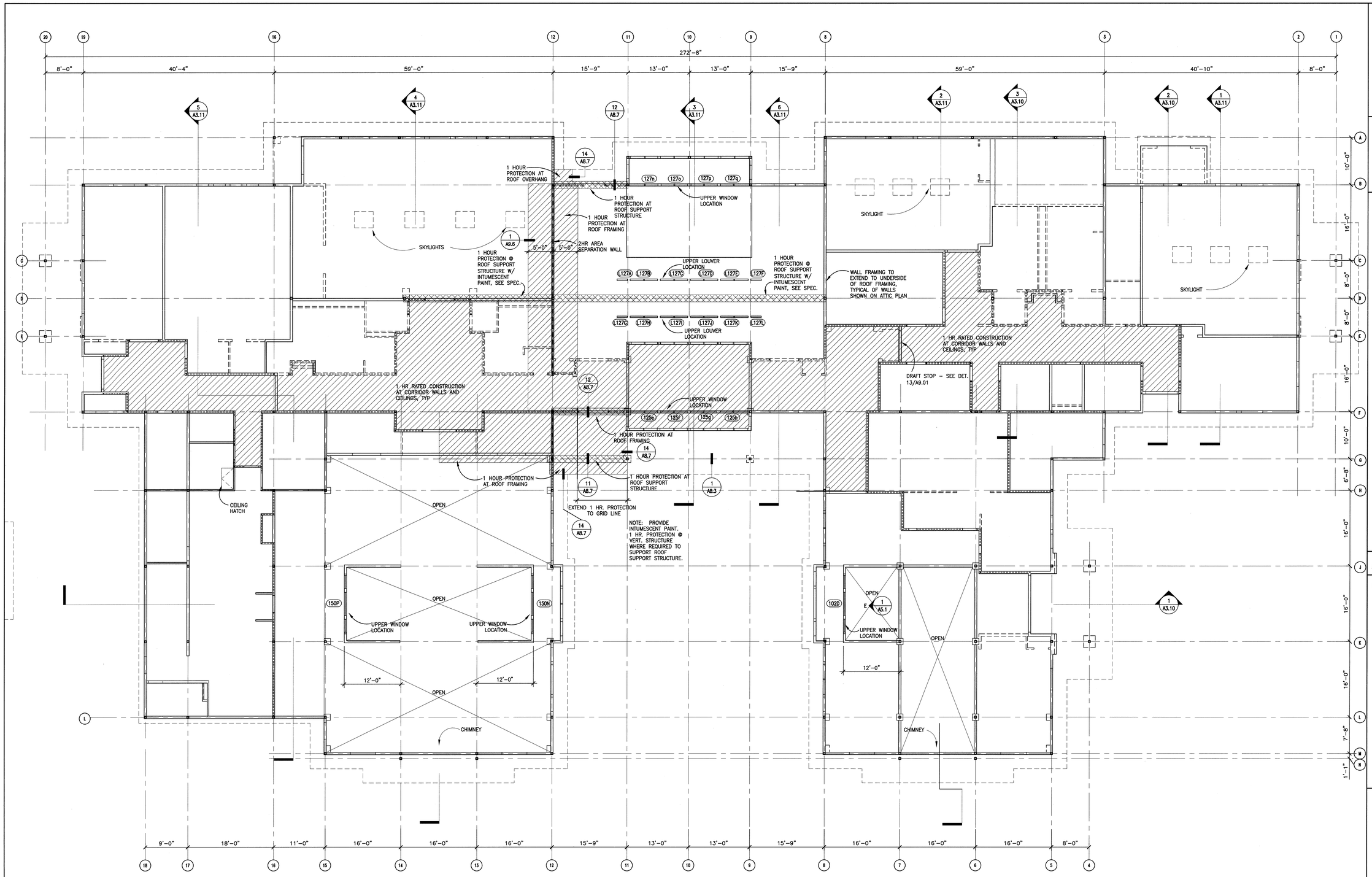
SHEET TITLE:

GRADING AND DRAINAGE PLANS

REGISTERED PROFESSIONAL ENGINEER ADRIAN CORTEZ No. 52173 Exp. 12/31/06 CIVIL STATE OF CALIFORNIA

DRAWN BY: BS
CHECKED BY: BS
JOB NO: 200030116

SHEET C2.1



1 ATTIC PLAN

1/8"=1'-0"

PLAN

0 1' 4' 8' 16' 24'

TRUE NORTH

PLAN NORTH

WALL & PARTITION LEGEND

- 1 HOUR RATED CEILING
- OUTLINE OF WALL BELOW
- 1 HOUR OCCUPANCY SEPARATION WALL
- 2 HOUR AREA SEPARATION WALL

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MOUNTAIN VIEW SENIOR CENTER

266 ESCUELA AVE
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DATE: APRIL 18, 2005

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SHEET TITLE:

ATTIC PLAN

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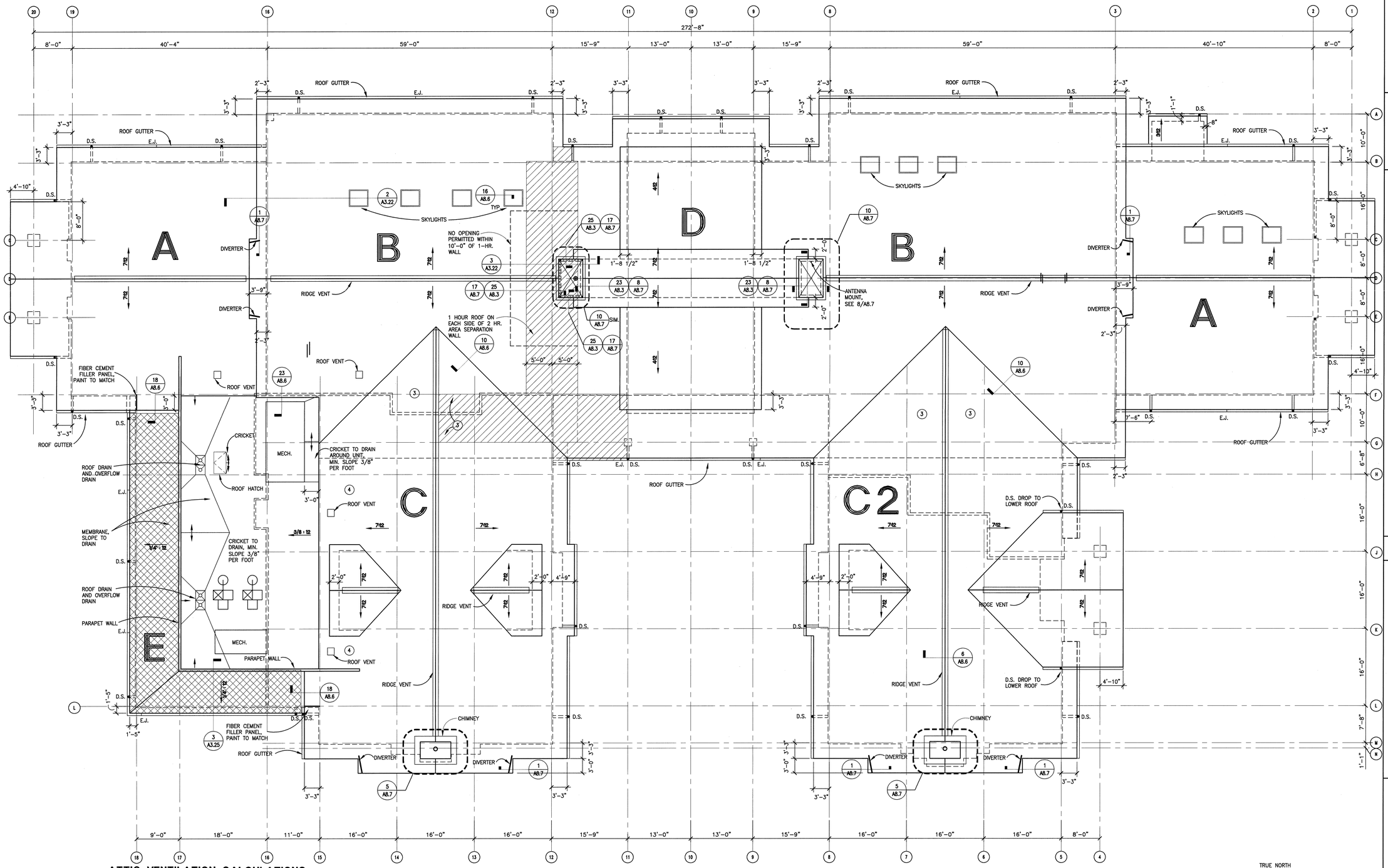
SHEET A2.2

02-25-04 - PLAN.DWG



ATTIC VENTILATION CALCULATIONS:

GENERAL VENTILATION NOTES:
1. SEE SPECIFICATIONS FOR RIDGE VENT TYPE.
2. PROVIDE (6) 2" DIA HOLES IN PSL FRAMING MEMBERS AT SKYLIGHT FRAMING TO ALLOW MOVEMENT OF AIR AROUND OPENING. LOCATE CENTERLINE 7" DOWN FROM THE TOP OF THE PSL AND AT LEAST 12" FROM THE ENDS.
3. PROVIDE OPENINGS IN LOWER PLYWOOD SHEATHING AT CALIFORNIA FRAMING AT BOTH SIDES OF OCCUPANCY SEPARATION WALL.
4. PROVIDE OPENINGS IN TJI FRAMING TO ALLOW MOVEMENT OF AIR THROUGH JOIST TO ROOF VENT. LOCATE CENTERLINE 7" DOWN FROM THE TOP OF THE TJI AND AT LEAST 12" FROM THE ENDS.

CALCULATIONS ARE BASED ON:
RIDGE – (6) 2" DIA HOLES PER BAY (3 PER SIDE OF RIDGE BEAM) = .130 sf
EAVE – 0.194 sf FREE AREA – (1) 4"x7" OPENING EACH BAY (16")

AREA PER 16" BAY (UPPER ROOF):
AREA: 1.3' x 68'-6" = 91.34 sf/ 300=.30 sf (REQ'D)
RIDGE: 3.14 x 6=18.84 sq. inches = .13 sf provided
EAVE: 4" x 7" = 28 sq. inches = .194 sf provided
TOTAL: .324 sf > .30 sf

AREA PER 16" BAY (LOWER ROOF):
AREA: 1.3' x 48'-6" = 63.05 sf/ 300=.21 sf (REQ'D)
RIDGE: 3.14 x 6 = sq. inches = .13 sf
EAVE: 28 sq. inches = .194 sf provided
TOTAL: .324 sf > .21 sf

AREA "A" – LOWER ROOF (DANCE):
AREA: 1956.18 sf/ 300= 6.52 sf (REQ'D)
RIDGE: 36.10 lf = 27 bays x 0.13 sf= 3.51 sf
EAVE: 40 lf = 30 bays x .194 sf = 5.82
EAVE: 13'-4" = 10 bays x .194 sf = 1.94
TOTAL: 11.27 sf > 6.52 sf

AREA "A" – LOWER ROOF (ARTS & CRAFTS):
AREA: 1956.18 sf/ 300= 6.52 sf (REQ'D)
RIDGE: 36.10 lf = 27 bays x 0.13 sf= 3.51 sf
EAVE: 40 lf = 30 bays x .194 sf = 5.82
EAVE: 40 lf = 30 bays x .194 sf = 5.82
TOTAL: 15.15 sf > 6.52 sf

AREA "B" – UPPER ROOF (MULTI-PURPOSE A):
AREA: 3480 sf/ 300= 11.6 sf (REQ'D)
RIDGE: 59.375 lf = 44 bays x 0.13 sf= 5.72 sf
EAVE: 44 bays x 0.194 sf= 8.54 sf
EAVE: 8 bays x .194 sf= 1.552 sf
TOTAL: 15.81 sf > 11.6 sf

AREA "C" LOWER ROOF (SOCIAL HALL):
AREA: 3690 sf/ 300= 12.3 sf (REQ'D)
RIDGE: 84.75 ft = 63 bays x 0.13 sf= 8.19 sf
EAVE: 62.33 ft = 46 bays x .194 sf = 8.92 sf
EAVE: 5.83 ft = 4 bays x .194 sf = .776 sf
TOTAL: 17.88 sf > 12.3 sf

AREA "C2" LOWER ROOF (LOBBY/LOUNGE):
AREA: 3690 sf/ 300= 12.3 sf (REQ'D)
RIDGE: 84.75 ft = 63 bays x 0.13 sf= 8.19 sf
EAVE: 46 x .194 sf/lf = 8.92sf x 2 = 17.84 sf
TOTAL: 26.03 sf > 12.3 sf

AREA "D" LOWER ROOF (GAMES/GALLERY):
AREA: 2760 sf/ 300= 9.2 sf (REQ'D)
RIDGE: 57.5 ft = 43 bays x 0.13 sf= 5.59 sf
EAVE: 43 x .194 sf/lf = 8.34 sf x 2 = 16.68 sf
TOTAL: 22.27 sf > 9.2 sf

AREA "E" LOWER ROOF (KITCHEN):
AREA: 757 SF/ 150= 5.05 SF (REQ'D)
EAVE: 96 LF = 72 bays x 0.194 sf = 8.02 sf
EAVE: 35 LF = 26 bays x 0.194 sf = 5.04 sf
TOTAL: 13.96 sf > 5.50 sf

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

0 1' 4' 8' 16' 24'

TRUE NORTH
PLAN NORTH

ROOF PLAN NOTES

1. PROVIDE VALLEY FLASHING WHERE ROOF PITCHES CHANGE & WHERE ROOF INTERSECTS VERTICAL SURFACES.
2. NOT USED
3. ROOF PENETRATIONS TO BE PAINTED TO MATCH ROOF. REFER TO MECH. ELEC. & PLUM. FOR FULL EXTENT OF ROOF PENETRATIONS.
4. REFER TO SHEET A8.6 FOR ROOF DETAILS.
5. REFER TO DETAIL 7/A8.6 FOR TYP. GUTTER PROFILE.
6. UNLESS NOTED OTHERWISE, DOWNSPOUTS ARE 4" ROUND G.S.M.
7. ROOF OVERHANGS ARE 3'-3", TYPICAL. UNLESS NOTED OTHERWISE.
8. SEE 19/A8.6 FOR DETAIL OF PLUMBING VENT PENETRATION THROUGH ROOF.
9. SKYLIGHTS: I.C.B.O. STANDARD REPORT #3710.
10. VENTS OR FLUES SHALL NOT TERMINATE LESS THAN 3' ABOVE ANY OUTSIDE OR MAKE-UP AIR INLET LOCATED WITHIN 10' AND AT LEAST 4' FROM A PROPERTY LINE OR AREA SEPARATION WALL.

ROOF PLAN LEGEND

- 1 HOUR RATED ROOF
- FLAT ROOF W/ COLORED ROOF MEMBRANE
- OUTLINE OF WALL BELOW
- 1 HOUR OCCUPANCY SEPARATION WALL

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ROOF PLAN

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