

RICHARD F. BERTZ, P.E., P.S.
1225 INDIANA AVE.
NAPOLEON, OHIO 43545
(419) 599-7128

March 25, 1989

Mr. Don Bergstedt
Bergstedt Builders
1050 Dodd Street
Napoleon, Ohio 43545

Re: Structural Design
210 W. Maumee, Napoleon

Dear Mr. Bergstedt:

Per your request, I have completed a structural analysis for the above referenced house construction project. Results of this investigation are outlined below.

1. Use a W10x33, A36 steel beam in basement. If desired a somewhat lighter, but deeper section is available.
2. Use 3-2x6 studs as support columns for the steel beam. No bearing plates will be required. Material to be Hem-Fir, Construction grade.
3. Beam to bear on steel beam in basement can be either 5-2x12, #2 SP, KD15 or 5 1/8"x12" Glulam beam, 24F, Fb=2400 psi, E=1,600,000 psi.
4. Ridge rafter to support 2x12 rafters shall be 5 1/8"x16 1/2" glulam, same grade as item 3. *will be a wall*
5. Support columns for ends of ridge beam shall consist of 3-2x4, Hem-Fir, Construction grade. The columns to extend to foundation.
6. To support end of 3' cantilever walk at east end, extend 1-2x10 through south wall. Note that all exterior exposed lumber shall be pressure treated.

Please advise should any questions or comments arise.

Sincerely,

Richard F. Bertz

Richard F. Bertz
Consulting Engineer

ROOFING FINISH

3/4" sheathing

ROOF PITCH

9/12 + 4/12 = 16' O.C.

ROOF
SHEATHING
All rafters
offset

Asph/Flt

RAFTERS
2x6 or 2x8
at *24'* o.c.

CEILING JOISTS
2x6 or 2x8
at 16" o.c.

FINISH CEILING Plaster

WALL STUDS
2x4
at 16" o.c.

7'-6" clear floor
to ceiling height
(minimum)

EXTERIOR
WALL FINISH

Asph/Flt + Bush

INTERIOR
WALL FINISH

Plaster + Sanding

NRCC SHEATHING

1/2" sheathing

FLOOR FINISH

Lamson

FLOOR JOISTS

size 2x10
at 16 o.c.

FOUNDATION
BOLT
1/2" x 10"
6'-0" o.c. max.

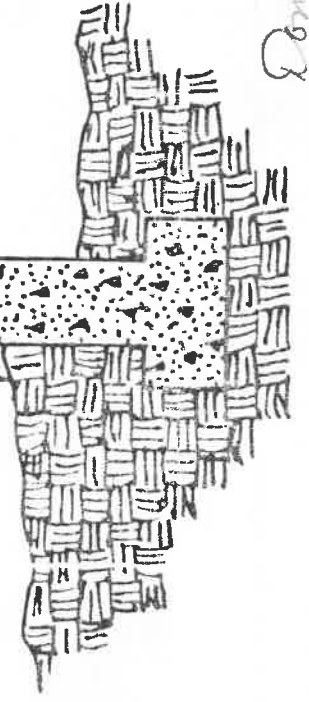
top of foundation
to grade - 8" min.

FOUNDATION WALL

thickness 8'4 1/2"
depth 2'4" + 32"

FOOTER

width 24"
depth 8"



Don Bergstedt

210 W - Maurice Job

See sheet *01111*
Architect's

Don Bergstedt

address

SECTION "R"

211 X 12' Elevation

1st Floor

BACK

7'4"

2x4 Stud @ 16" OC

2x6 Stud 16" OC

2x4 Stud 16" OC

8x8 X 16 Coronal Block

2x8 Block

2x10 Floor Joist

2x4 Stud Wall

INSULATION
2x4 Stud
Heating

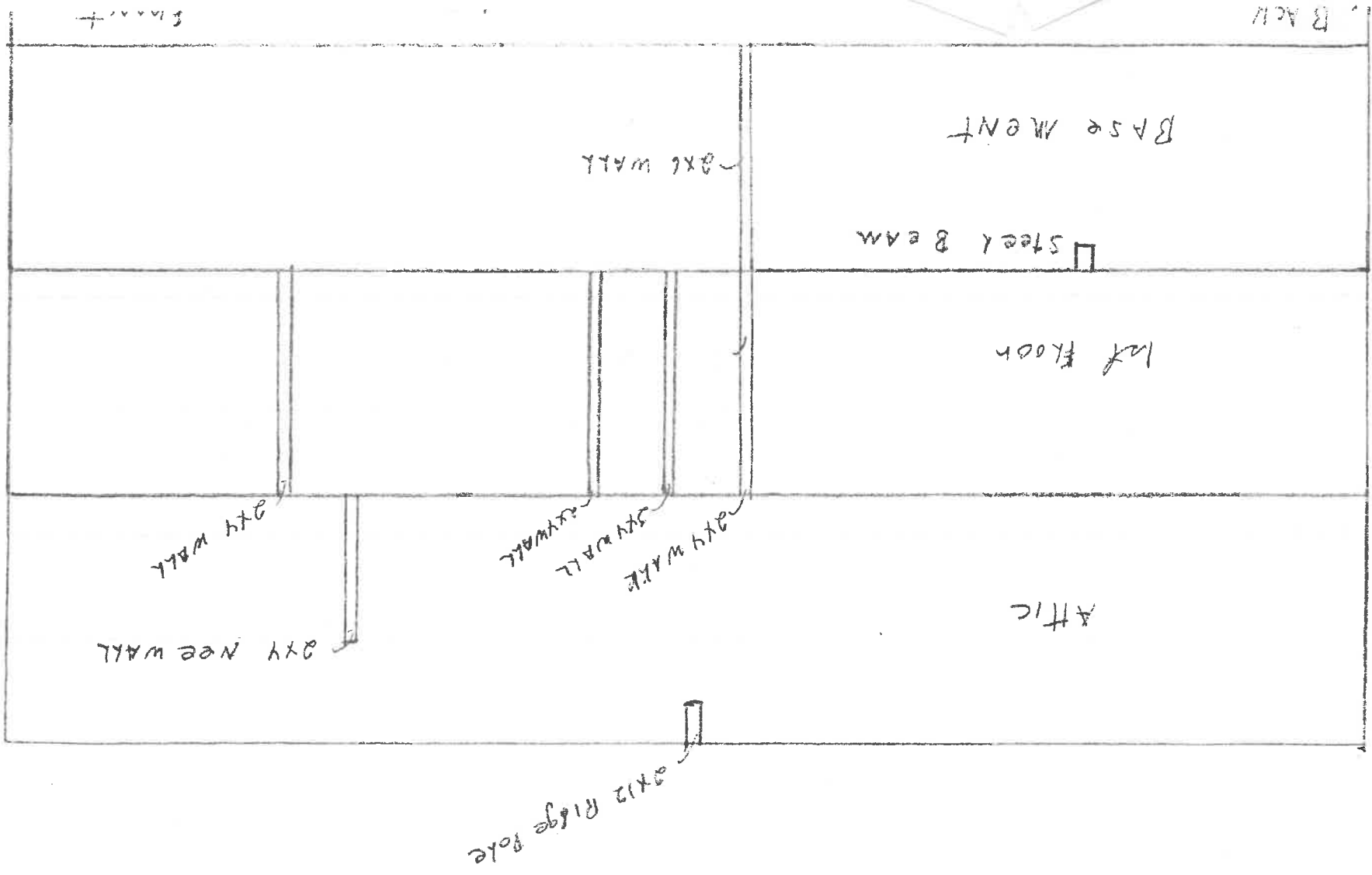
alum foam
vynol wrap
vynol siding

2x8 Ceiling Joist

2x12-16" OC
RAFTERS

2x12 RAFTERS
3/4" SHINGLES
15'2" EXH

Don Burgett
210 W Main



B. ACII

5/16/11

Don Burpach
 210 W. Mammie
 Mayfield, OH.

5/16 sketch

Plan of Survey

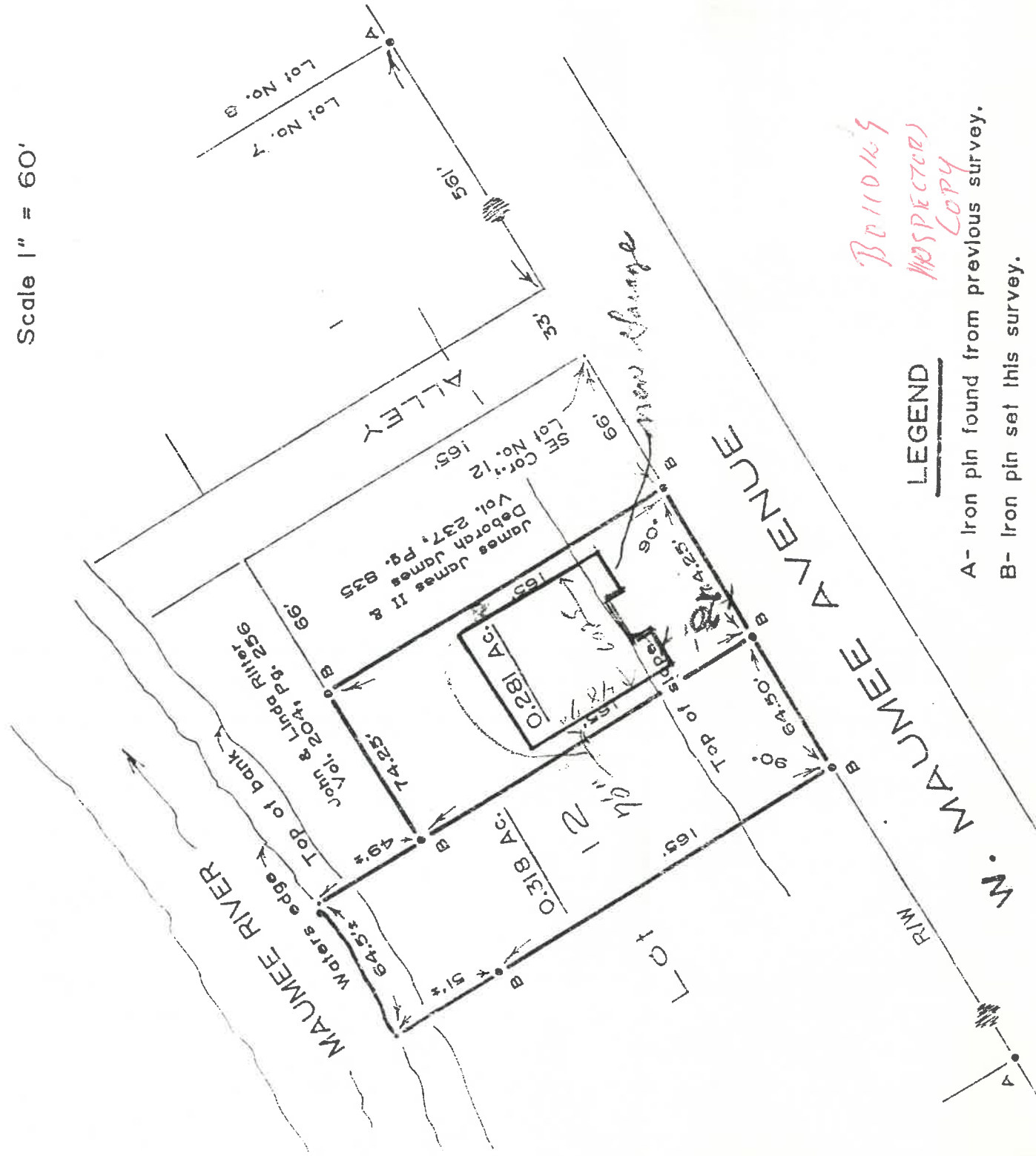
Being a part of Lot No. 12 in S. L. Curtis's Subdivision of Lot No's. 23 and 24 of J. G. Lowe's Addition to the City of Napoleon, Henry County, Ohio.

For: Donald H. & Ruth E. Bergstedt
Deed ref., Vol. 239, Pg. 436

210 added on plan



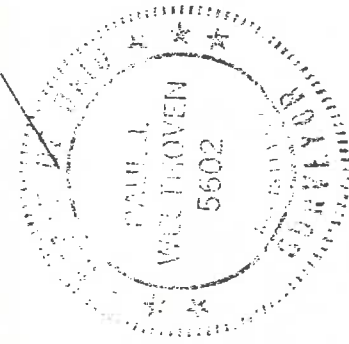
Scale 1" = 60'



*Beidick
Inspector
Copy*

LEGEND

- A- Iron pin found from previous survey.
- B- Iron pin set this survey.



I hereby certify this survey and notes to be correct to the best of my knowledge.

Paul J. Westhoven

Paul J. Westhoven
Registered Surveyor No. 5602
February 28, 1989
Survey No. 3919-H-CN-3-7-89