

# INDEX OF DRAWINGS

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# GENERAL NOTES

- 1- HVAC & ELECTRICAL WORK SHALL COMPLY WITH REQUIREMENTS OF OBBC CHAPTER 28 & 27 RESPECTIVELY AND ARE TO BE SUBMITTED BY OTHERS.
- 2- THE PLUMBING SYSTEM SHALL COMPLY WITH REQUIREMENTS OF OBBC CHAPTER 29 AND ARE TO BE SUBMITTED BY OTHERS.
- 3- FLAME SPREAD OF EXPOSED INSUL. SHALL COMPLY W/OBBC 722.2. FLAMESPREAD OF 25 OR LESS & SMOKE DEVELOPED RATING OF 450 OR LESS.
- 4- FLAMESPREAD OF CONCEALED INSUL. SHALL COMPLY W/OBBC 722.3. FLAMESPREAD RATING OF 75 OR LESS & SMOKE DEVELOPED RATING OF 450 OR LESS.
- 5- INTERIOR FINISH & TRIM SHALL BE AS FOLLOWS: CLASS II FINISHES IN EXIT ACCESS AREAS & CLASS III FINISHES IN OTHER ROOMS / AREAS.
- 6- CERTIFICATE OF USE & OCCUPANCY SHALL BE OBTAINED PRIOR TO THIS BUILDING BEING OCCUPIED
- 7- PRIOR TO OCCUPYING THIS BUILDING, IT SHALL BE POSTED IN CONFORMANCE W/ OBBC 4101.2.1.28. COORD. W/ARCHITECT & BUILDING. DEPT.

An Office Facility For :

## National Emergency Number Association

Beecher Ridge Office Park  
422 Beecher Road, Gahanna, Ohio

### Builders

CANINI & PELLECCCHIA

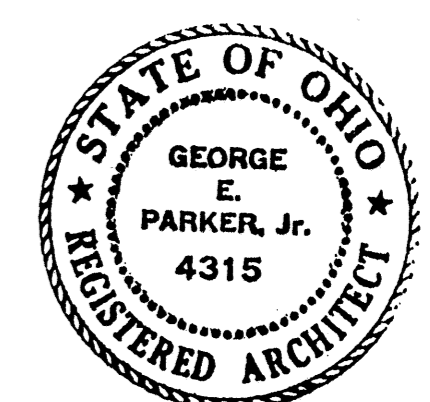
Beecher Ridge Office Park  
430 Beecher Road, Gahanna, Ohio 43230

### Architecture & Planning

george parker & associates, aia.

106 Short Street, Gahanna, Ohio, 43230

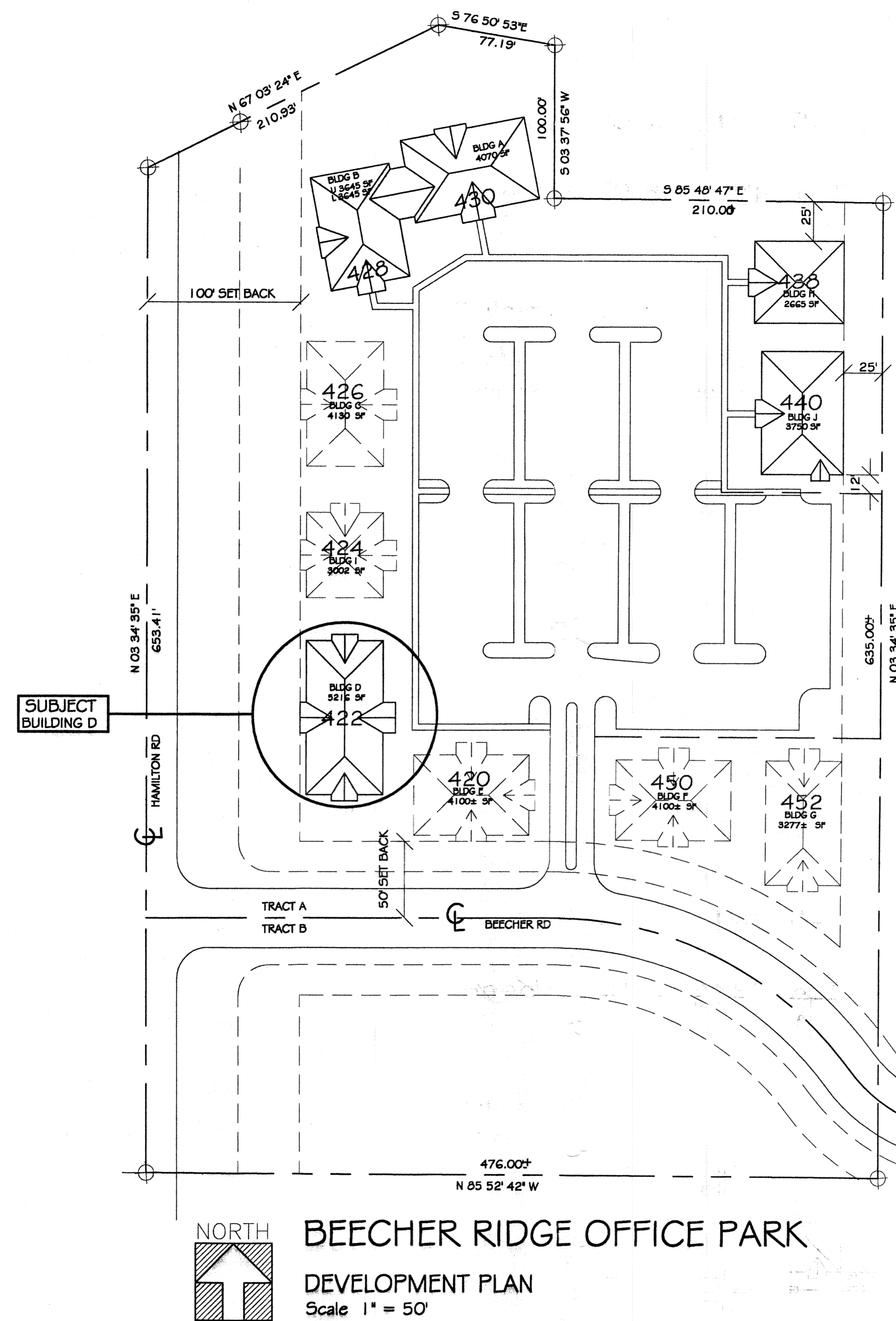
DATE : 07-06-99



### USE GROUP TABLE

USE GROUP-	'B'
TYPE OF CONSTRUCTION-	5B-UNPROTECTED
FIRE RESISTANCE RATING-	2 HR
MAX LIVE LOADS-	SEE STRUCT. DWGS S1-S2
OCCUPANCY LOAD-	GROSS AREA = 5216 SF / 100 = 52
(100 SF GROSS PER OCCUPANT)	

476-3600

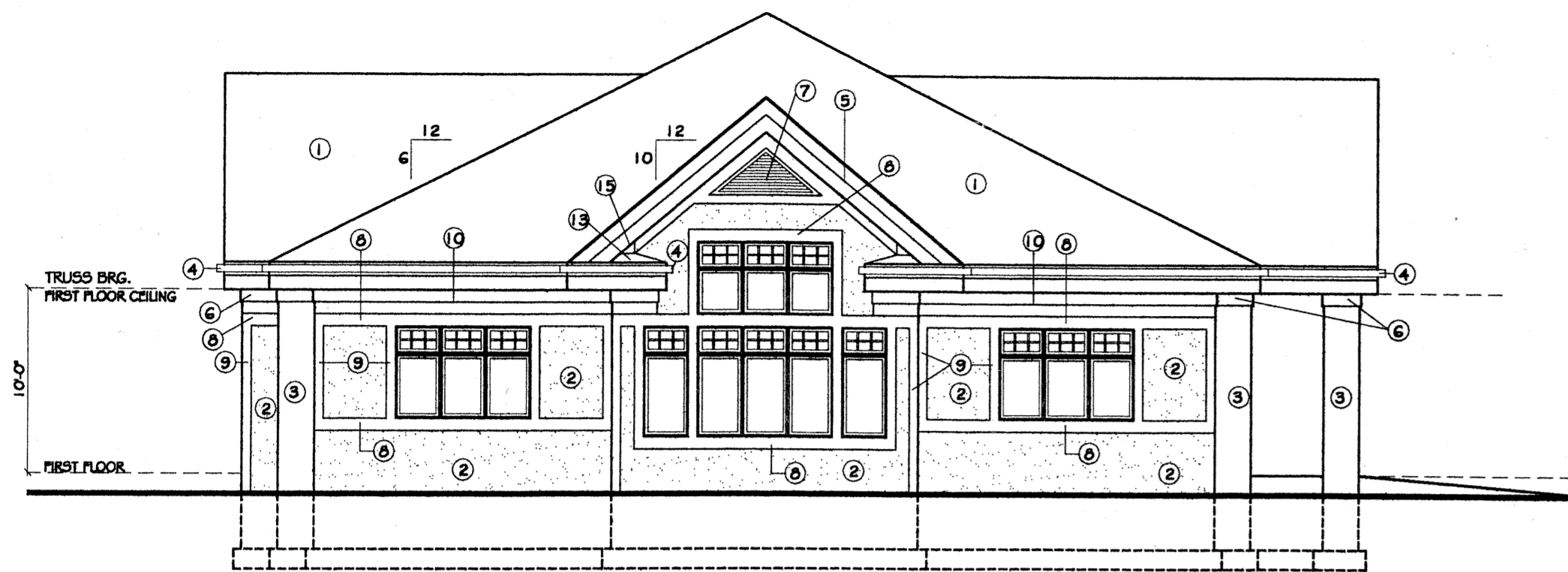


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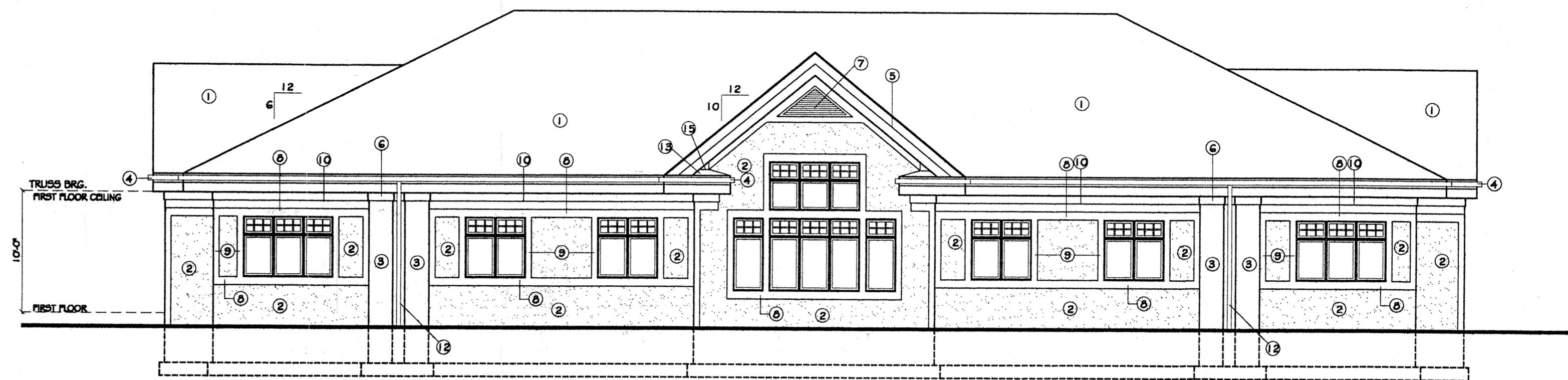
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BEECHER RIDGE OFFICE PARK, GAHANNA, OHIO

DATE : 07-06-99

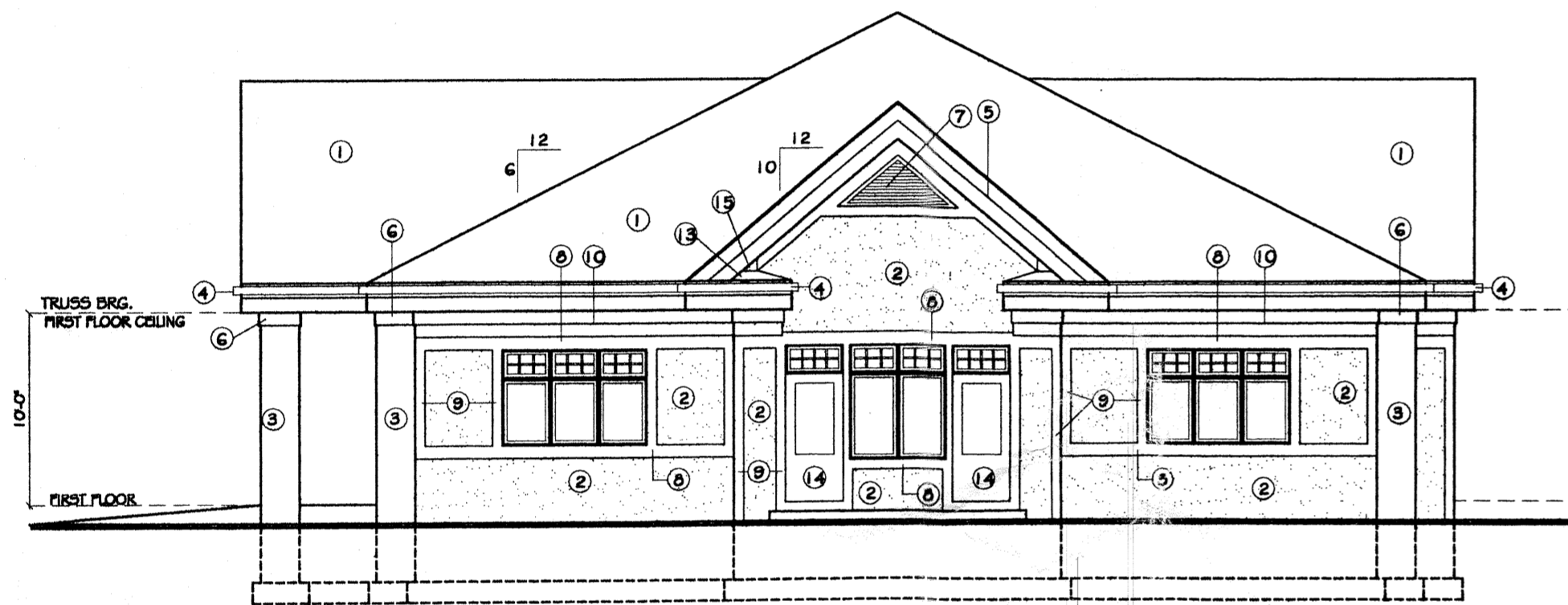
SITE 1



**SOUTH ELEVATION**  
Scale 1/8" = 1'-0"



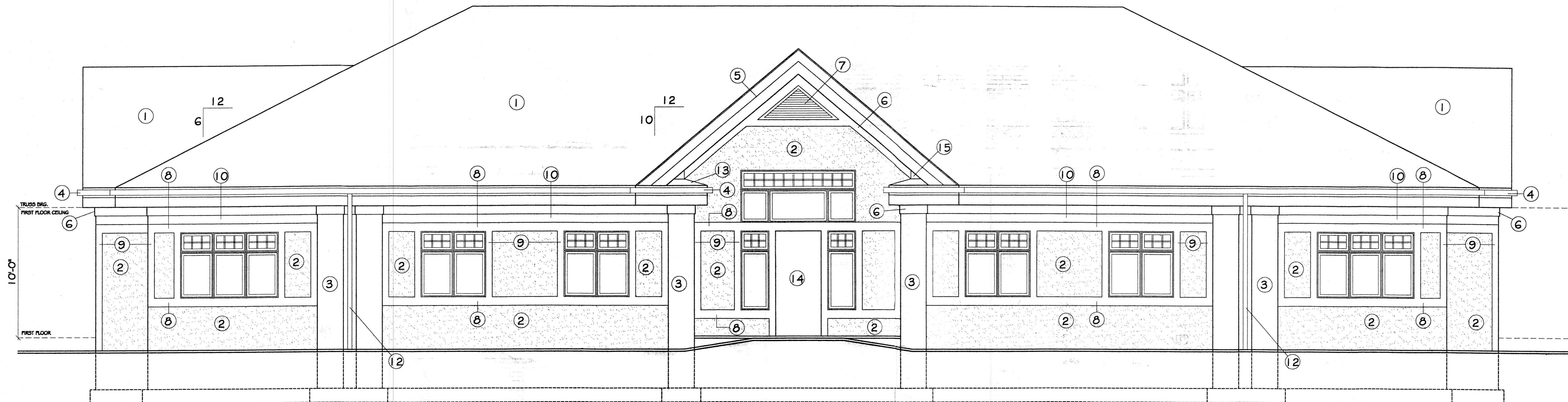
**WEST ELEVATION**  
Scale 1/8" = 1'-0"



**NORTH ELEVATION**  
Scale 1/8" = 1'-0"

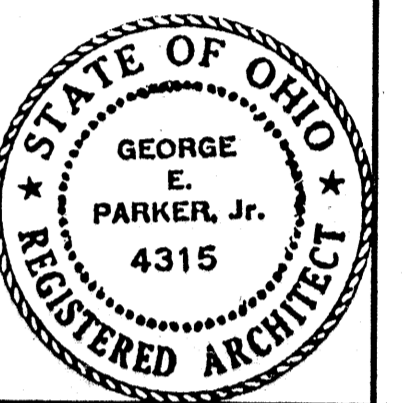
**ELEVATION LEGEND**

- |  |  |
|--|--|
| ① ASPHALT SHINGLES                               | ⑧ 5/4 X 8 WOOD TRIM/FRIEZE               |
| ② STUCCO   | ⑨ 5/4 X 6 WOOD TRIM                      |
| ③ STONE  | ⑩ 3-5/4 X WOOD CORNICE                   |
| ④ ALUM. GUTTER OVER 1X WOOD FASCIAS-18" EXPOSURE | ⑪ TRIM FROM 5/4 MAT'L.                   |
| ⑤ 1X WOOD FASCIAS-18" EXPOSURE                   | ⑫ DOWNSPOUTS                             |
| ⑥ 5/4 X 6 FRIEZE                                 | ⑬ SINGLE PLY RUBBER ROOFING              |
| ⑦ WOOD LOUVER                                    | ⑭ SEE DOOR SCHEDULE & DIAGRAM ON SHT A 5 |
|  | ⑮ 1X WD. TRIM AS REQUIRED                |



**EAST ELEVATION**  
Scale 1/4" = 1'-0"

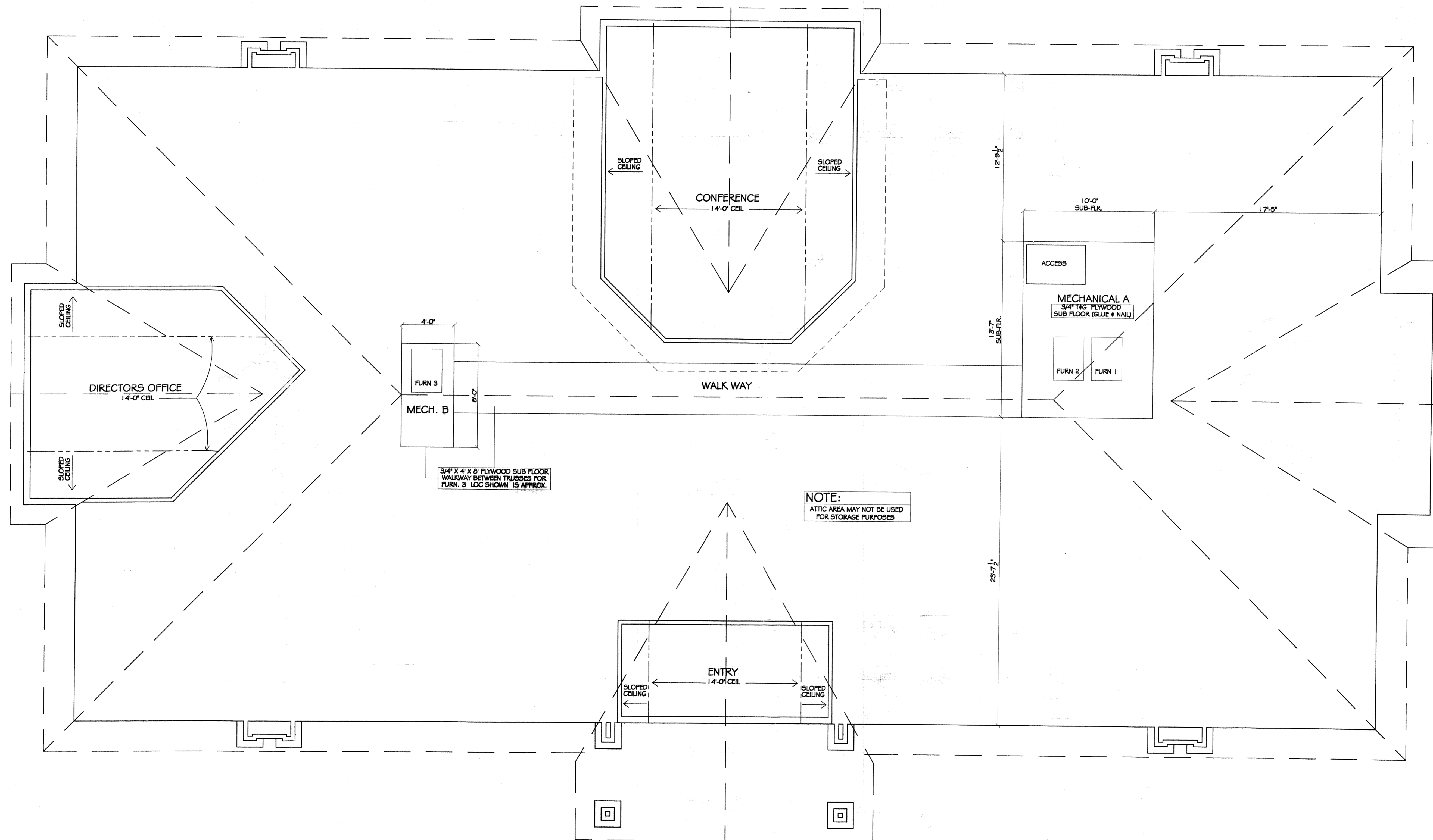
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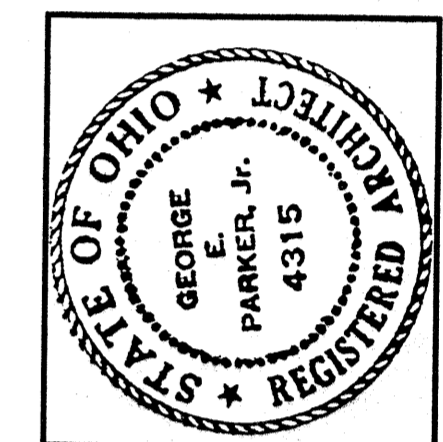




ATTIC FLOOR PLAN  
Scale 1/4" = 1'-0"

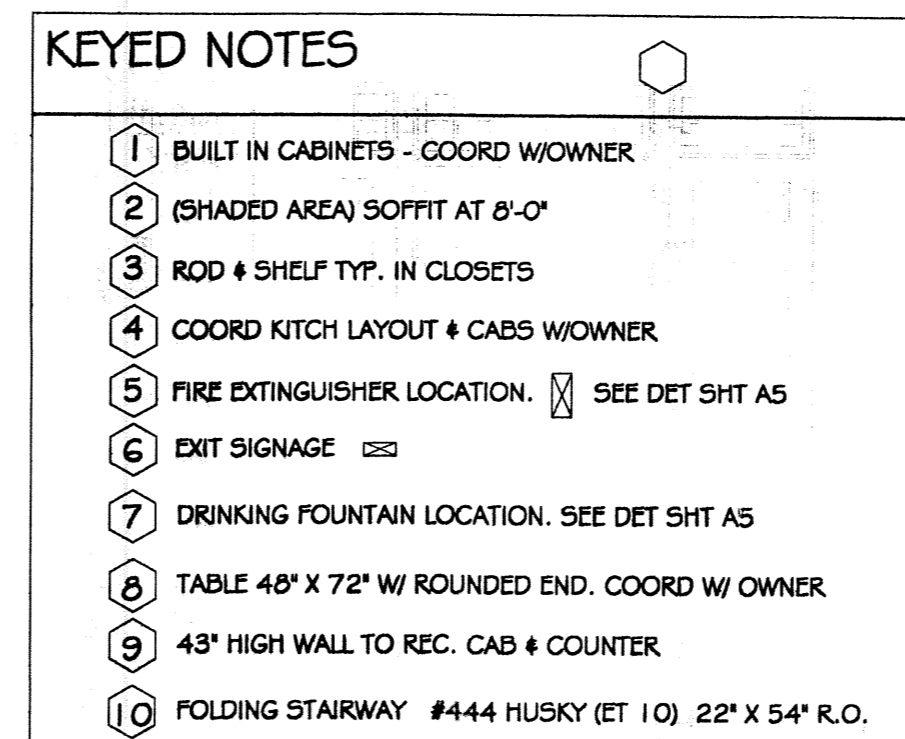
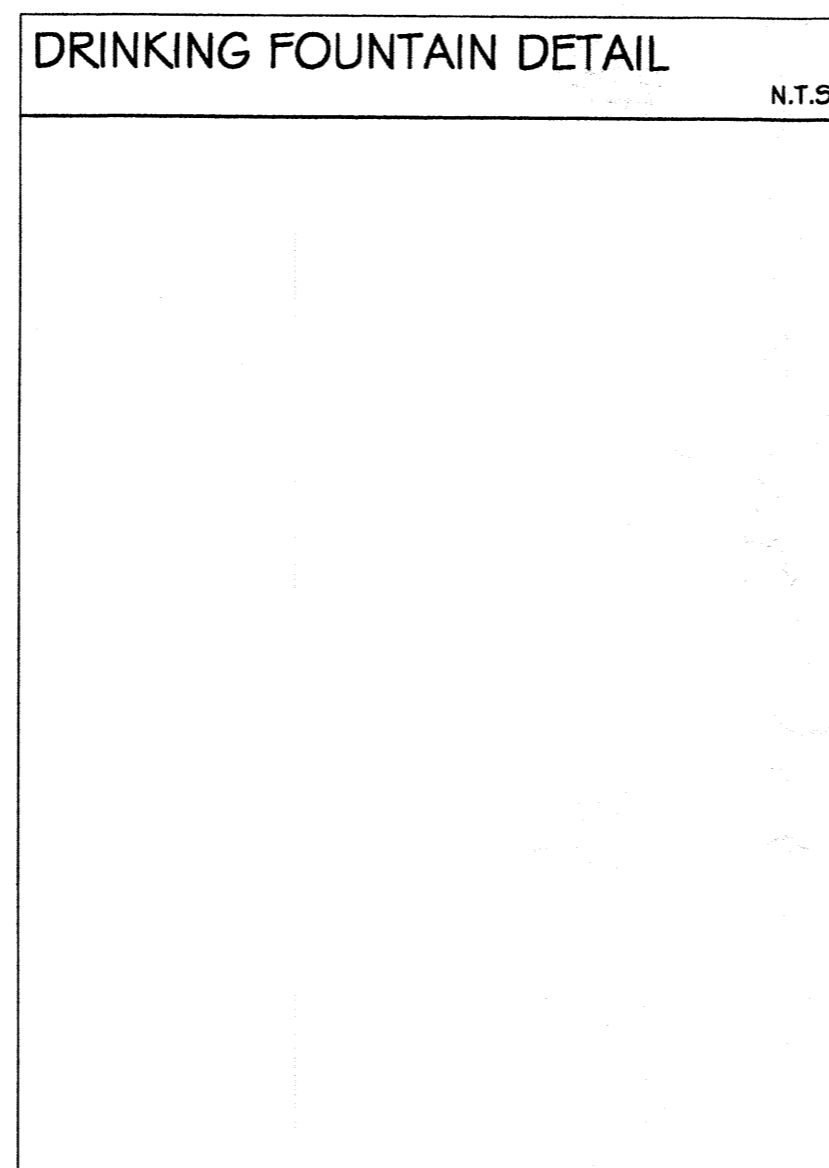
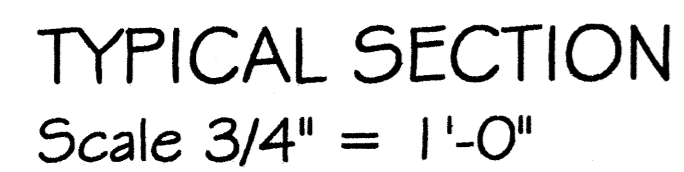
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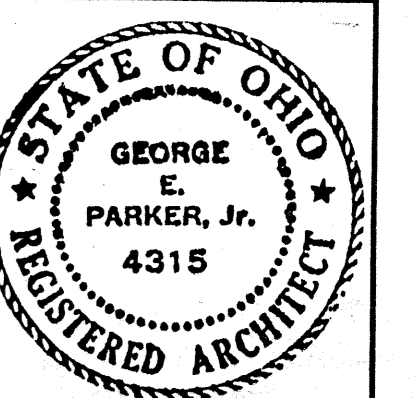
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A4



DOOR SCHEDULE											
DOOR							FRAME		THRSLD	HWDE GROUP	REMARKS
NO	TYPE	W	H	T	MAT	FIN	MAT	FIN			
1	A	42"	96"	1 3/4"	WOOD GLASS	PAINT	METAL	PAINT		1	
2	A	42"	96"	1 3/4"	WOOD GLASS	PAINT	WD	PAINT		2	
3	B	PR 36"	84"	1 3/8"	WD	PAINT	WD	PAINT		3	BL-PASS
4	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
5	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
6	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
7	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
8	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
9	B	PR 36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
10	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
11	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
12	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
13	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
14	B	PR 36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
15	C	36"	54"	1 3/4"	WOOD GLASS	PAINT	METAL	PAINT		1	
15 A	C	36"	84"	1 3/4"	WOOD GLASS	PAINT	METAL	PAINT			PR-ED
16	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
17	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
18	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		2	
19	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		4	
20	B	36"	84"	1 3/8"	WD	PAINT	WD	PAINT		4	

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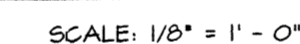
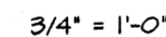


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A5



1. SLAB CONSTRUCTION: 4" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH 6#-N/A#14 MWF. (TYP. UNQ.).
2. COORDINATE ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS. SEE ARCH. DRAWINGS FOR DIMENSIONS NOT SHOWN. DIMENSIONS SHOWN ARE TO FACE OF C.M.U. OR CONCRETE UNQ.
3. ALL C.M.U. FOUNDATION WALLS ARE 8" C.M.U. (7'-5 7/8" ACTUAL). UNQ.
4. TOP OF SLAB ELEVATION (T/SLAB) = 100'-0".
5. SEE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR MINOR DEPRESSIONS AND SLOPES TO DRAINAGE.
6. TOP OF FOOTING ELEVATION (T/FT) = 47'-4" TYP. UNQ.
7. TOP OF PIER ELEVATION (T/PIER) = 49'-4" TYP. UNQ.
8. ALL DIMENSIONS DERIVED THEREFROM. CENTER ALL FOOTINGS BELOW FOUNDATION WALLS.
9. SEE SHEET 52 FOR STRUCTURAL NOTES.



# STRUCTURAL NOTES

## A. GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY BRACING, ETC. OR TIEING WHICH MAY BE NECESSARY. SUCH MATERIAL SHALL REMAIN THE CONTRACTOR'S PROPERTY AFTER THE COMPLETION OF THE PROJECT.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. EQUIPMENT FRAMING, LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL OBTAIN APPROVAL OF THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
4. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN.
5. GOVERNING CODE: 1980 OHIO BASIC BUILDING CODE.
6. DESIGN CRITERIA:
  - a. ROOF LOADS:
    1. DESIGN ROOF LIVE LOAD: 25 PSF MINIMUM PLUS THE EFFECTS OF SNOW DRIFTING
    2. ROOF SNOW LOADS:
      - a. GRAIND SNOW LOAD: 25 PSF
      - b. FLAT-ROOF SNOW LOAD: 18 PSF
      - c. SNOW EXPOSURE FACTOR: 0.7
      - d. SNOW IMPORTANCE FACTOR: 1.0
  - b. WIND LOADS:
    1. BASIC WIND SPEED: 80 MPH
    2. WIND IMPORTANCE FACTOR: 1.0
    3. WIND EXPOSURE CATEGORY: B
    - a. MAIN WIND FORCE RESISTING SYSTEM: B
    - b. COMPONENTS AND CLADDING: C
  - c. WIND DESIGN PRESSURES:
    - a. MAIN WIND FORCE RESISTING SYSTEM: 20 PSF
    - b. COMPONENTS AND CLADDING: 22 PSF
    - c. ROOFS: 17 PSF
  - d. SEISMIC DESIGN CRITERIA:
    1. EFFECTIVE PEAK VELOCITY:  $V_e = 0.071$
    2. EFFECTIVE PEAK ACCELERATION:  $A_e = 0.10$
    3. EXPOSURE GROUP: I
    4. PERFORMANCE CATEGORY: B
    5. SITE COEFFICIENT: 1.0
    6. STRUCTURAL SYSTEM: LOAD-BEARING WALL SYSTEM
    7. SEISMIC-RESISTING SYSTEM: LIGHT-FRAMED WALLS WITH SHEAR PANELS
    - a. RESPONSE MODIFICATION FACTOR:  $R = 6.0$
    - b. DEFLECTION AMPLIFICATION FACTOR:  $C_d = 4$
    - c. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE

- a. THE CONTRACTOR SHALL SUBMIT THREE COPIES OF THE FOLLOWING SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION (ONE COPY TO BE RETAINED BY THE ARCHITECT):
  1. CONCRETE REINFORCING
  2. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR THE APPROVAL STAMP OF THE CONTRACTOR.

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## D. MASONRY

1. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH THE FOLLOWING REFERENCES AND STANDARDS:
  - a. AMERICAN CONCRETE INSTITUTE, COMMITTEE 230.
  - b. NATIONAL CONCRETE MASONRY ASSOCIATION.
2. MATERIALS:
  - a. CONCRETE BLOCK: ASTM C40, MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 2300 PSI.
  - b. MORTAR: TYPE S, MINIMUM COMPRESSIVE STRENGTH: 1500 PSI.
  - c. BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE, MINIMUM COMPRESSIVE STRENGTH = 5000 PSI.
  - d. JOINT REINFORCING: #11 GALVANIZED FINISH, 9 GAUGE MINIMUM SIDE PILES AND CROSS WIRES.
  - e. BAR REINFORCING: ASTM A615, GRADE 60.
3. MISCELLANEOUS:
  - a. VERTICAL COLLAR JOINTS TO BE FILLED SOLID WITH MORTAR.
  - b. FILL CORE SOLID AROUND ANCHOR BOLTS.
  - c. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS SHALL ALSO BE BEDDED IN ALL COURSES OF PIERS, AND IN THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.

## E. STRUCTURAL LUMBER

1. MATERIALS:
  - a. STUDS: SPRUCE-PINE-FIR, STD GRADE OR BETTER, ACCORDING TO THE NATIONAL LUMBER GRADES AUTHORITY (NLGA), SEASONED AT 19% M.C.
  - b. STRUCTURAL LUMBER: SPRUCE-PINE-FIR NO. 2 OR BETTER, ACCORDING TO THE NATIONAL LUMBER GRADES ASSOCIATION (NLGA), SEASONED AT 19% M.C.
  - c. PLYWOOD:
    1. ROOF: C-C PLUGGED, 5/8" APA STRUCTURAL I RATED SHEATHING, 24/6, EXPOSURE I, UNO.
    2. WALL: 1/2" APA STRUCTURAL I RATED SHEATHING, 24/6, EXPOSURE I.
2. CONNECTIONS: UNLESS NOTED OTHERWISE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE PROPERLY DESIGNED CONNECTIONS FOR THE END SUPPORT OF ALL MEMBERS. AS A MINIMUM, CONNECTIONS FOR STRUCTURAL MEMBERS SHALL CONFORM TO THE FASTENER SCHEDULE LISTED IN THE OHIO BASIC BUILDING CODE.
  - a. JOISTS TO BEAMS: 18 GA GALVANIZED STD. JOIST HANGERS BY THE SIMPSON STRONG-TIE CO. (PROVIDE SLOPED AND/OR SKEWED HANGERS WHERE REQUIRED).
  - b. PLYWOOD TO CEILING JOISTS: GULFED AND NAILLED, USE #4 RING SHANK NAILS AT 6 INCHES O.C. AT PANEL EDGES AND 12 INCHES O.C. AT INTERMEDIATE SUPPORTS.
  - c. PLYWOOD TO ROOF RAFTERS/TRUSSES: NAILLED, USE #4 RING SHANK NAILS AT 6 INCHES O.C. AT PANEL EDGES AND 12 INCHES O.C. AT INTERMEDIATE SUPPORTS.
  - d. PLYWOOD TO STUDS: USE #4 RING SHANK NAILS AT 6 INCHES O.C. AT PANEL EDGES AND 12 INCHES O.C. AT INTERMEDIATE SUPPORTS.
  - e. SECURELY FASTEN ROOF RAFTERS TO CEILING JOISTS OR COLLAR TIES TO PREVENT LATERAL THRUST AT BASE OF RAFTER.
  - f. MULTIPLE STUDS SHALL BE NAILLED WITH #4 NAILS AT 8" O.C., FULL LENGTH.
  - g. PROVIDE POST CAPS AND BASES BY THE SIMPSON STRONG-TIE CO. AT TOPS AND BOTTOMS OF WOOD POSTS.
  - h. PROVIDE 1/2" DIAMETER TRU-BOLTS FOR FLITCH PLATE BEAMS AT 24" O.C., STAGGERED TOP AND BOTTOM. LOCATE CENTERLINE OF BOLTS 2" FROM EDGE OF LUMBER, TOP AND BOTTOM.
3. MISCELLANEOUS:
  - a. USE ONE LINE OF SOLID BLOCKING OR CROSS BRIDGING AT 8'-0" O.C. MAX. FOR ALL JOISTS AND RAFTERS. USE SOLID BLOCKING AT JOIST AND RAFTER BEARING LOCATIONS. PROVIDE SOLID BLOCKING BETWEEN JOISTS BELOW BEARING STUDS.
  - b. USE SOLID BLOCKING AT MID-SPAN OF 10' TO 12' ON CENTER MAXIMUM FOR ALL EXTERIOR STUD WALLS AND INTERIOR BEARING WALLS.
  - c. PROVIDE TRIPLE STUDS AT CORNERS, DOUBLE STUDS EACH END UNDER BEAM BEARINGS, AND DOUBLE STUDS WITH ONE KING STUD EACH END UNDER HEADER BEARINGS, UNLESS SHOWN OTHERWISE.
  - d. PROVIDE A SINGLE PLATE AT THE BOTTOM AND A DOUBLE PLATE AT THE TOP OF ALL STD WALLS. SILL PLATES SHALL BE BOLTED TO FOUNDATION WALLS WITH 1/2" DIAMETER ANCHOR BOLTS AT A MAXIMUM OF 4'-0" O.C. AND 6 INCHES FROM ENDS AND SPICES, UNLESS NOTED OTHERWISE.
  - e. UNLESS NOTED OTHERWISE, PROVIDE DOUBLE 2 X 10 HEADERS OVER OPENINGS IN 2 X 4 STUD WALLS AND TRIPLE 2 X 8 HEADERS OVER OPENINGS IN 2 X 6 STUD WALLS.
  - f. PROVIDE ONE LAYER OF 1/2" THICK PLYWOOD BETWEEN EACH MEMBER OF DIMENSIONAL LUMBER HEADERS.
  - g. PRESSURE TREAT ALL EXTERIOR LUMBER AND ALL LUMBER IN CONTACT WITH CONCRETE OR MASONRY.
  - h. PROVIDE PLYWOOD WALL SHEATHING ON ALL EXTERIOR WALLS.
  - i. PROVIDE AND INSTALL BRIDGING FOR PREFABRICATED WOOD TRUSSES AS INDICATED ON THE TRUSS MANUFACTURER'S APPROVED SHOP DRAWINGS.
4. LVL INDICATES LAMINATED VENEER LUMBER (MICRO-LAN) MEMBER BY THE TRUS-JOIST CORP. CONNECT MULTIPLE MEMBERS AS FOLLOWS:
  - a. DOUBLE MEMBERS: NAILLED, USE 2-16d NAILS AT 12" O.C., LOCATED 2" FROM TOP AND BOTTOM OF BEAM.
  - b. TRIPLE MEMBERS: BOLTED, USE 1/2" DIAMETER BOLTS AT 24" O.C., LOCATED 2" FROM TOP AND BOTTOM OF BEAM.

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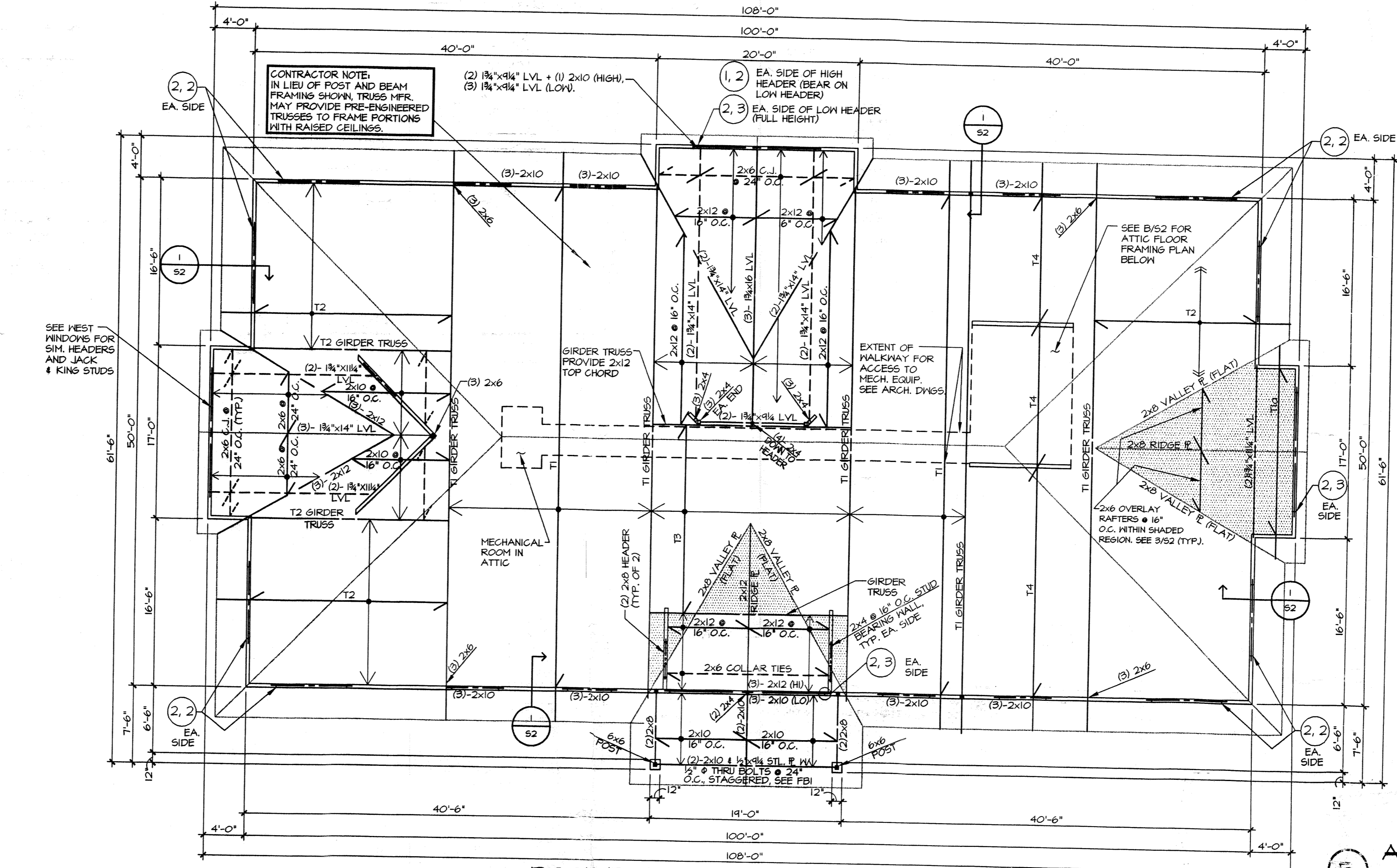
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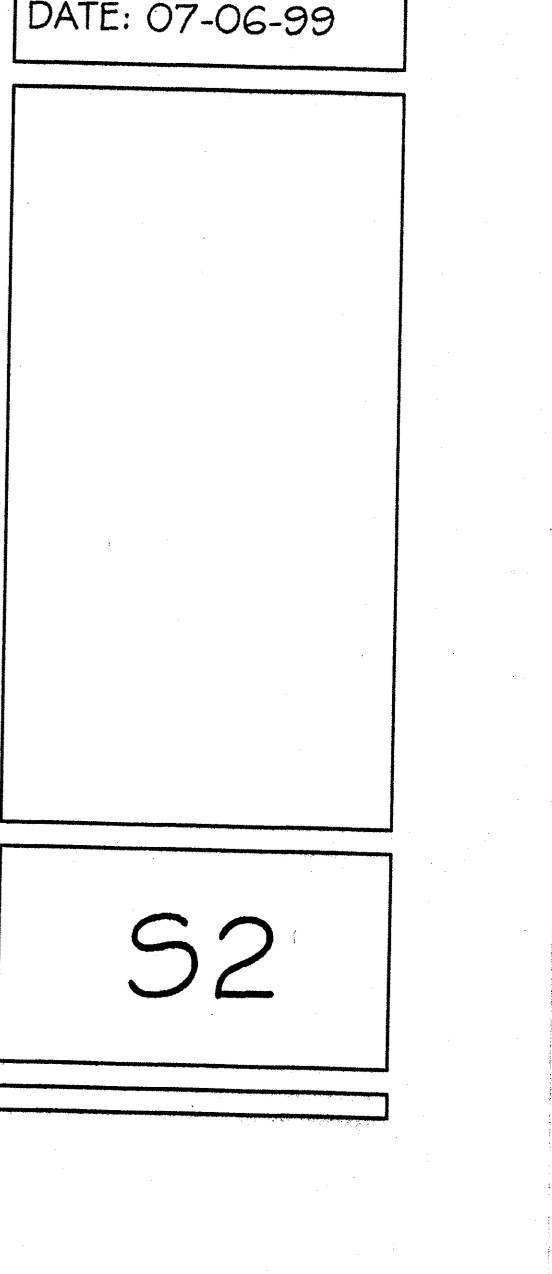
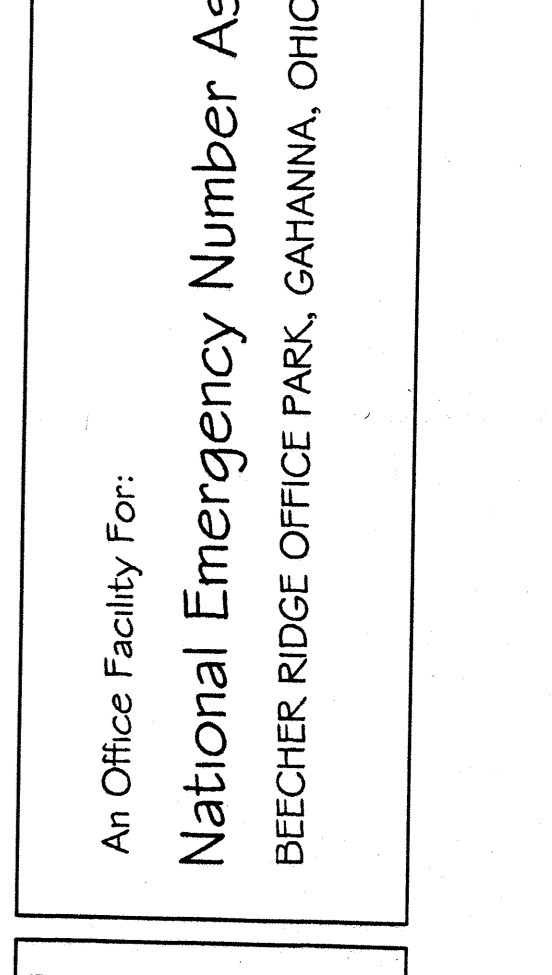
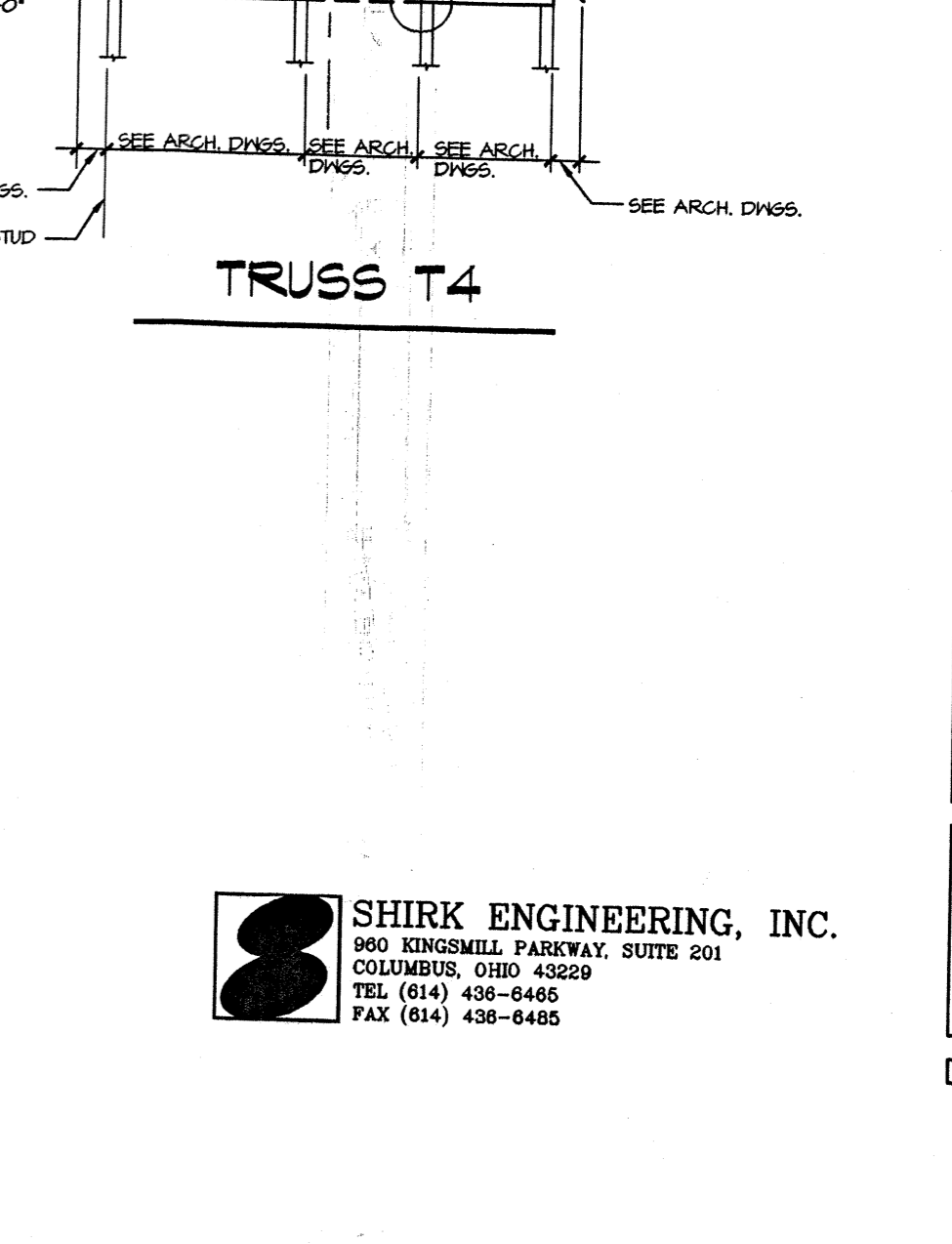
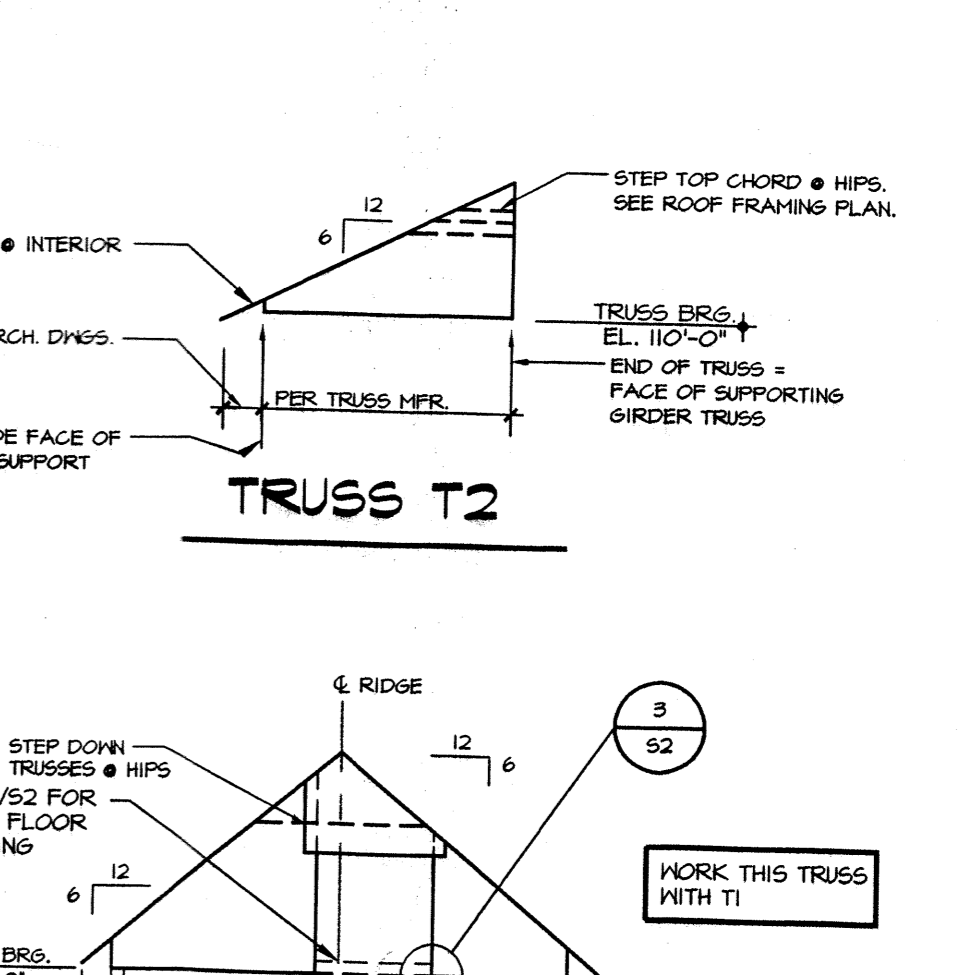
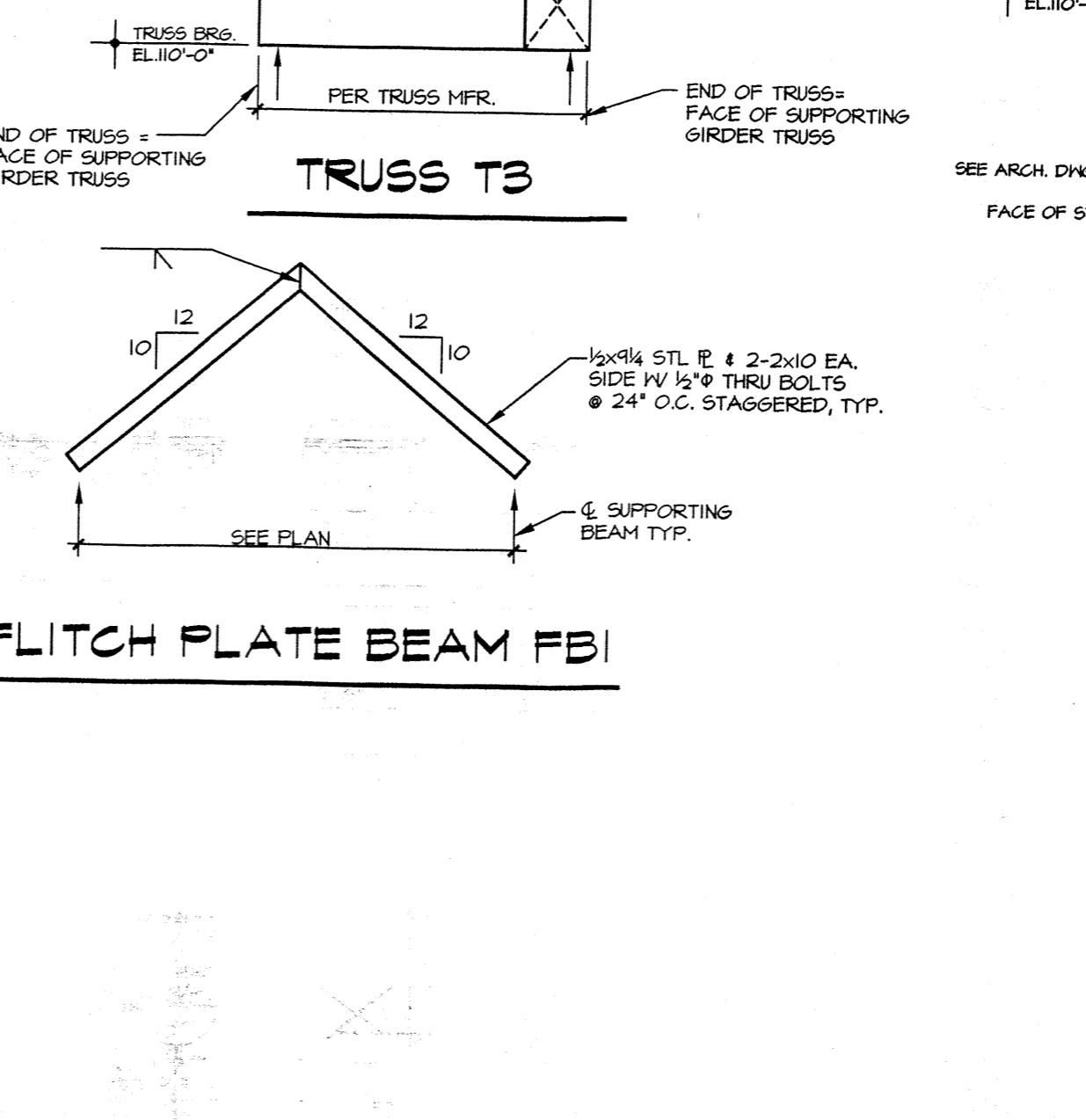
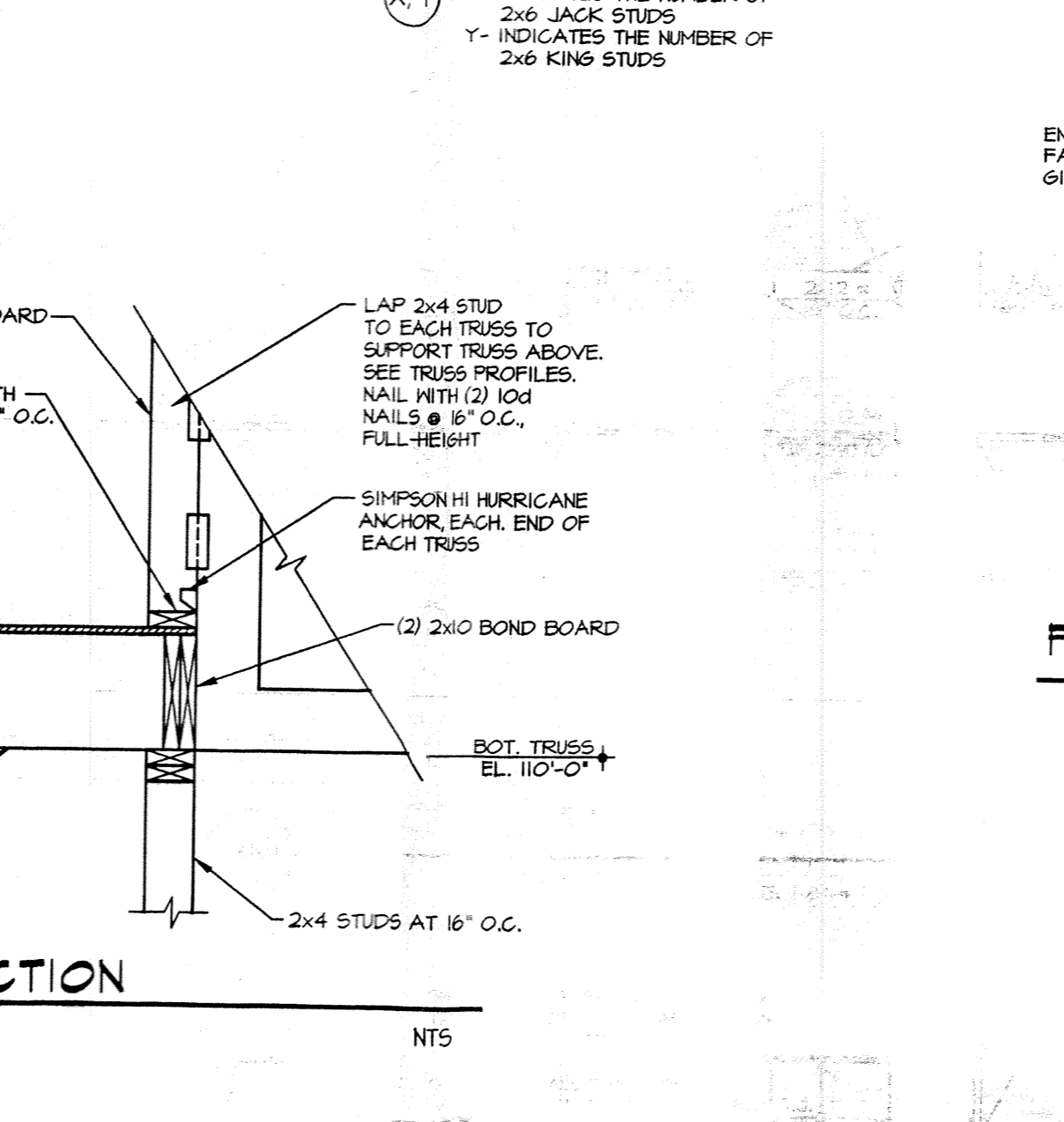
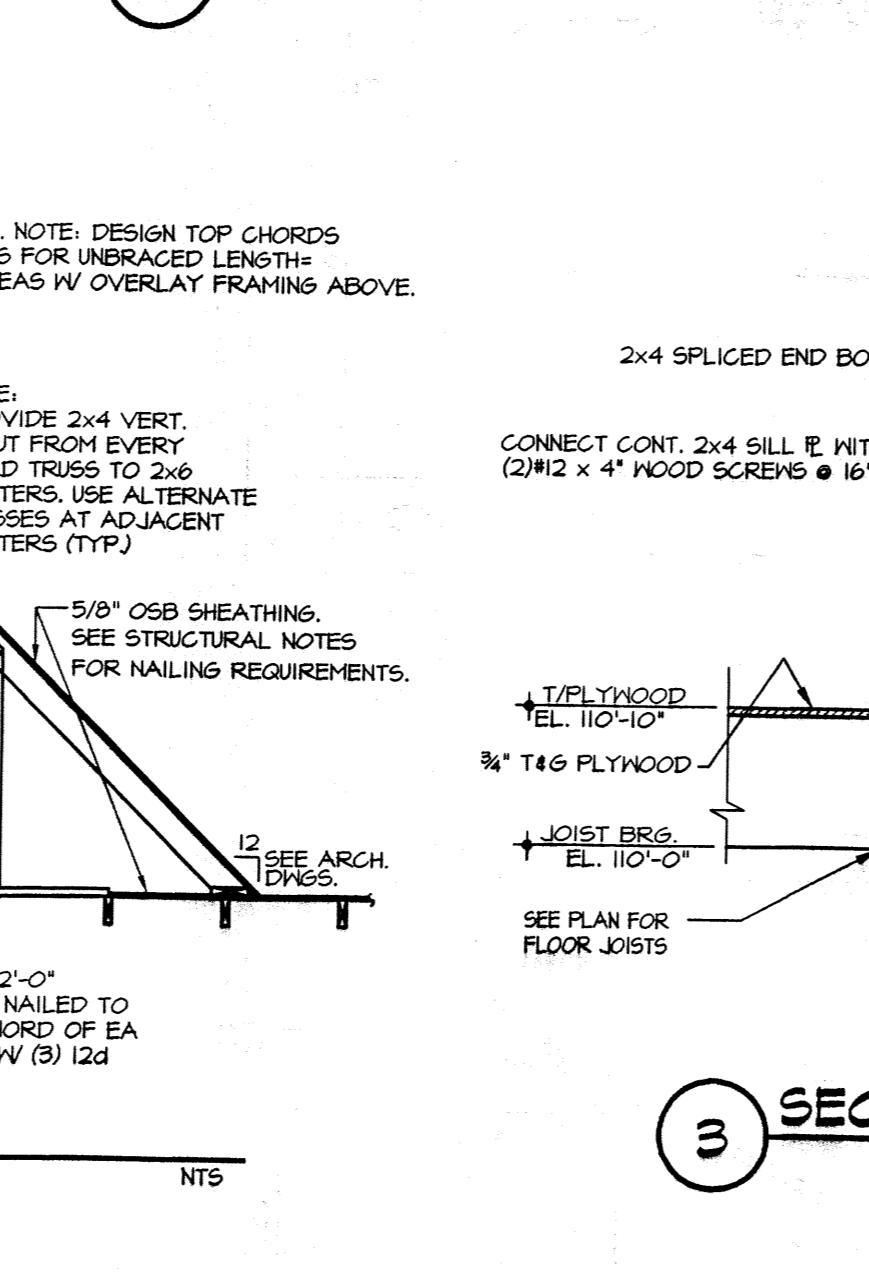
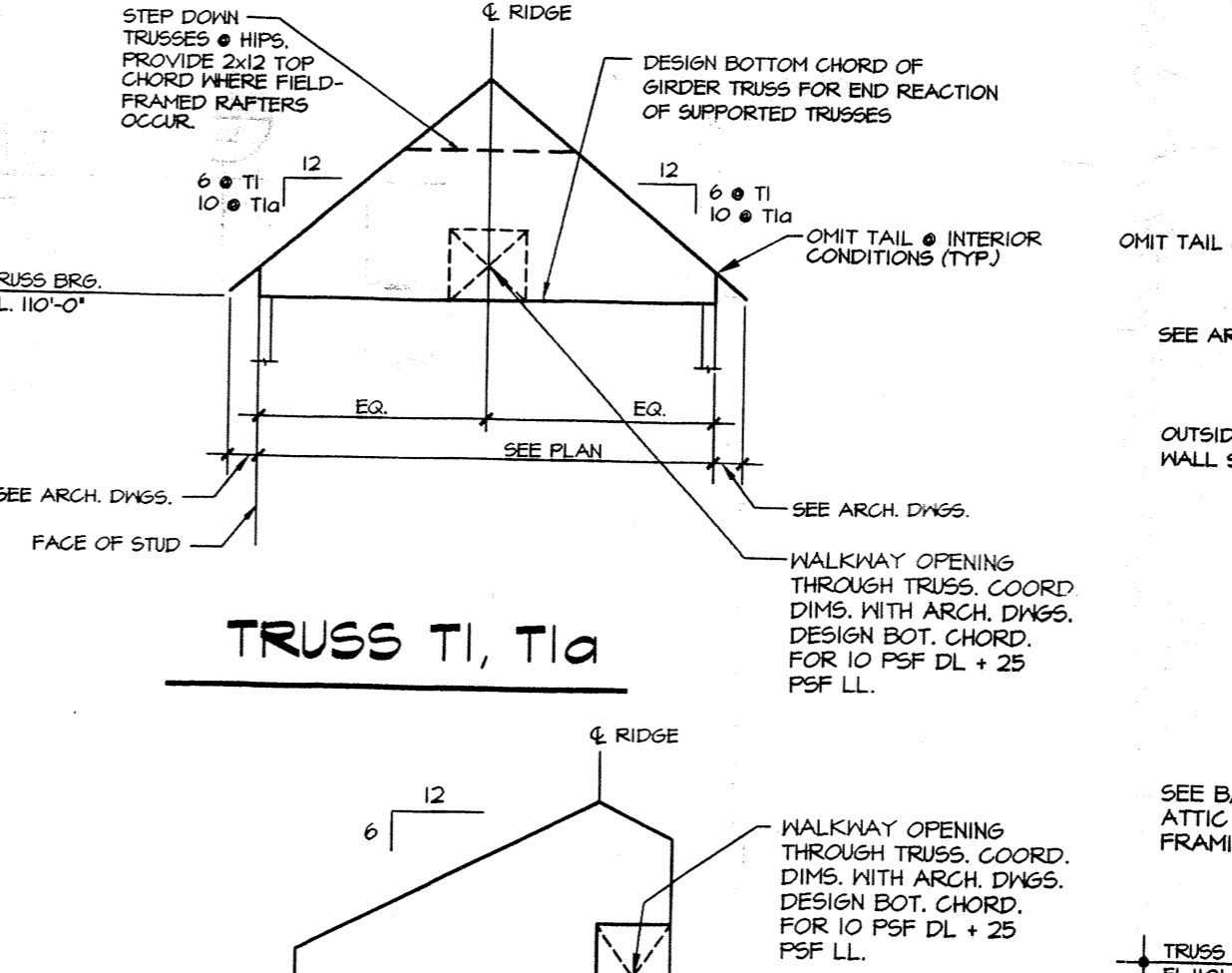
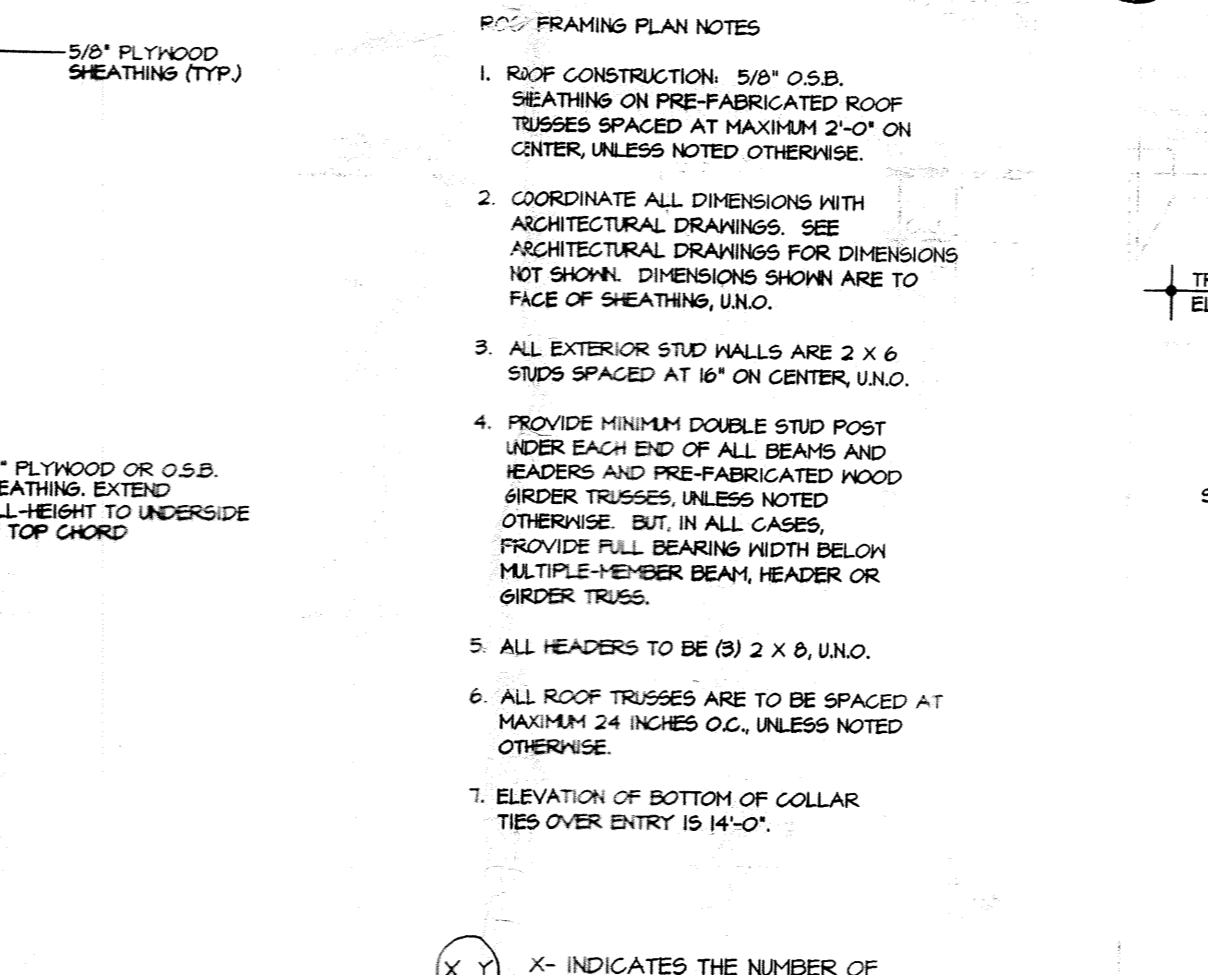
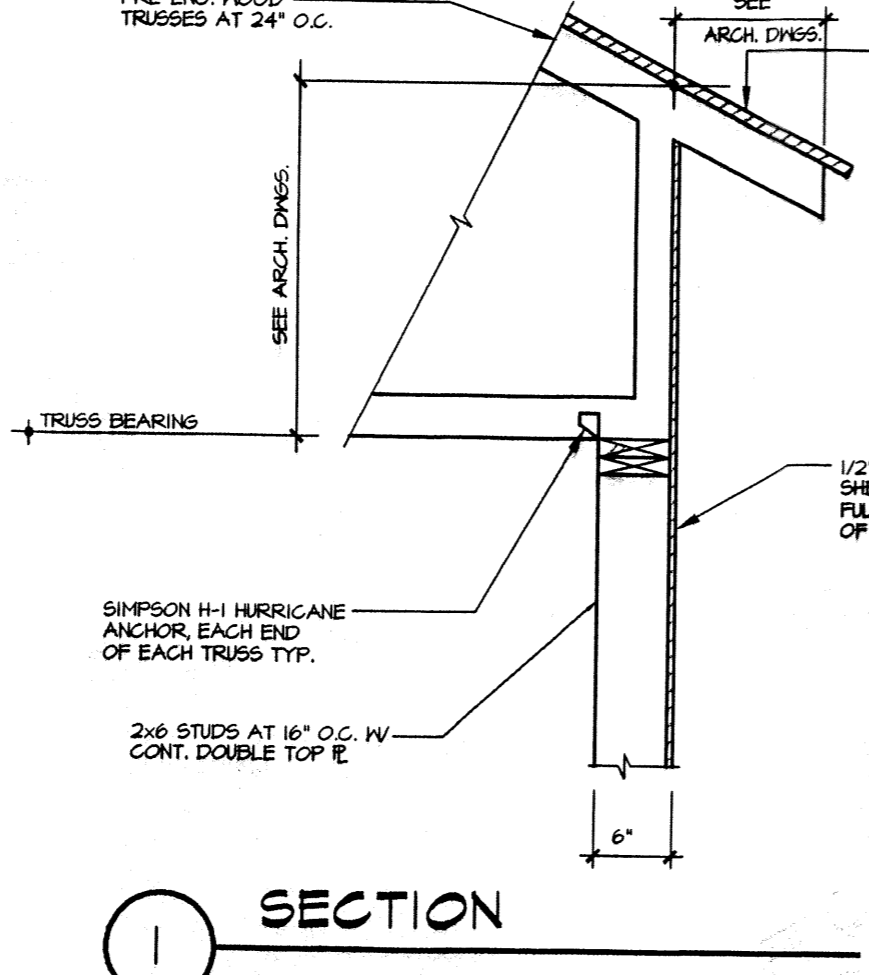
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**ATTIC FLOOR FRAMING PLAN**  
SCALE: 1/8" = 1' - 0"

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An Office Facility For:  
**National Emergency Number Association**  
 BEECHER RIDGE OFFICE PARK, GAHANNA, OHIO  
 DATE: 07-06-99  
**S2**

**SHIRK ENGINEERING, INC.**  
 890 KINGSMILL PARKWAY, SUITE 201  
 COLUMBUS, OHIO 43229  
 TEL. (614) 438-6465  
 FAX (614) 438-6485