

SITE IMPROVEMENT PLAN

SITUATED IN THE CITY OF HUDSON, COUNTY OF SUMMIT AND STATE OF OHIO AND KNOWN AS BEING PART OF LOT 7 OF SAID TOWNSHIP.

FOR: THE BEKTIC RESIDENCE



M. NEFF CONSULTANTS
planners • engineers • surveyors
matt@mneffconsultants.com
216.570.7981

IMPERVIOUS SURFACE COVERAGE:

POST-DEVELOPMENT 4,307 S.F. 1.6%

NOTES:

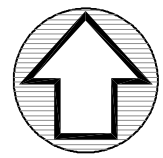
- MINIMUM FALL AWAY FROM HOUSE IS 6 INCHES IN 10 FEET.
- MAINTAIN POSITIVE YARD DRAINAGE (TO SWALES, YARD DRAINS, NATURAL WATERCOURSES OR STREET) ACROSS.
- VERIFY MINIMUM SLOPE OF 1% FROM BOTTOM OF FOOTER TO STORM AND SANITARY LATERALS. IF 1% CANNOT BE ACHIEVED, CONTACT CITY ENGINEER.
- UNDERGROUND INFORMATION SHOWN TAKEN FROM IMPROVEMENT PLANS AND TYPE, SIZE AND ELEVATIONS TO BE VERIFIED IN FIELD BY CONTRACTOR PRIOR TO CONSTRUCTION.
- CONTRACTOR MUST CHECK BENCH MARK WITH PERMANENT GRADE BEFORE ANY EXCAVATION OR WORK IS STARTED.
- THE SITE SHALL COMPLY WITH "SPECIFICATIONS FOR INDIVIDUAL LOT PROTECTION" AND "EROSION AND SEDIMENT CONTROL FOR CONSTRUCTION SITES".
- THERE SHALL BE NO DISTURBANCE OF ANY KIND OR STORAGE OF MATERIALS TO OCCUR BEYOND THE SILT FENCE.
- A/C UNIT WILL BE LOCATED OUT OF PUBLIC VIEW.
- STEP FOOTERS AS NEEDED.
- MUD, SOIL AND OTHER DEBRIS SHALL NOT BE DEPOSITED ONTO PUBLIC ROADWAYS. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF SUCH AS DIRECTED BY THE CITY OF HUDSON.
- CONTRACTOR SHALL MINIMIZE IMPACT TO SURROUNDING RESIDENCES. VEHICLES AND EQUIPMENT SHALL NOT BE PARKED IN ROADWAY BLOCKING ADJACENT PROPERTIES.
- CONTRACTOR TO VERIFY STORM AND SANITARY CONNECTION DEPTHS BEFORE BASEMENT EXCAVATION.
- THIS PLAN FOR SITE PURPOSES ONLY, SEE FOUNDATION PLAN FOR HOUSE DETAILS. HOUSE PLANS USED DATED 3/31/26.
- TREES (OR GROUPING OF TREES) SHALL BE PROTECTED BY 4' ORANGE CONSTRUCTION FENCE ERECTED AT DRIP LINE.

NOTES:

- XXXX EXISTING ELEVATION
- XXXX* PROPOSED GRADE
- XXXX EX. CONTOUR
- XXXX PROP. CONTOUR
- INDICATES DIRECTION OF SURFACE WATER AFTER FINAL GRADING.
- BENCH MARK: TOP OF HYDRANT SOUTH SIDE OF NORTON ROAD ELEVATION = 1078.78 (NAVD 1988)
- PROPERTY PIN SET OR FOUND
- SILT FENCE or SILT SOCK

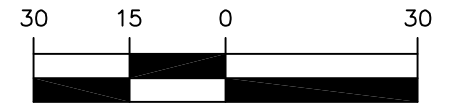
CONNECTIONS:

- USE 1" TYPE "K" COPPER
- USE 6" PVC SDR 35 w/ GASKETS 1% MIN., 10% MAX.
- PREMIUM FILL FOR ALL UTILITY TRENCHES UNDER PROPOSED DRIVEWAY AND WALKS.



NORTH

GRAPHIC SCALE



(IN FEET)
1 INCH = 30 FT.

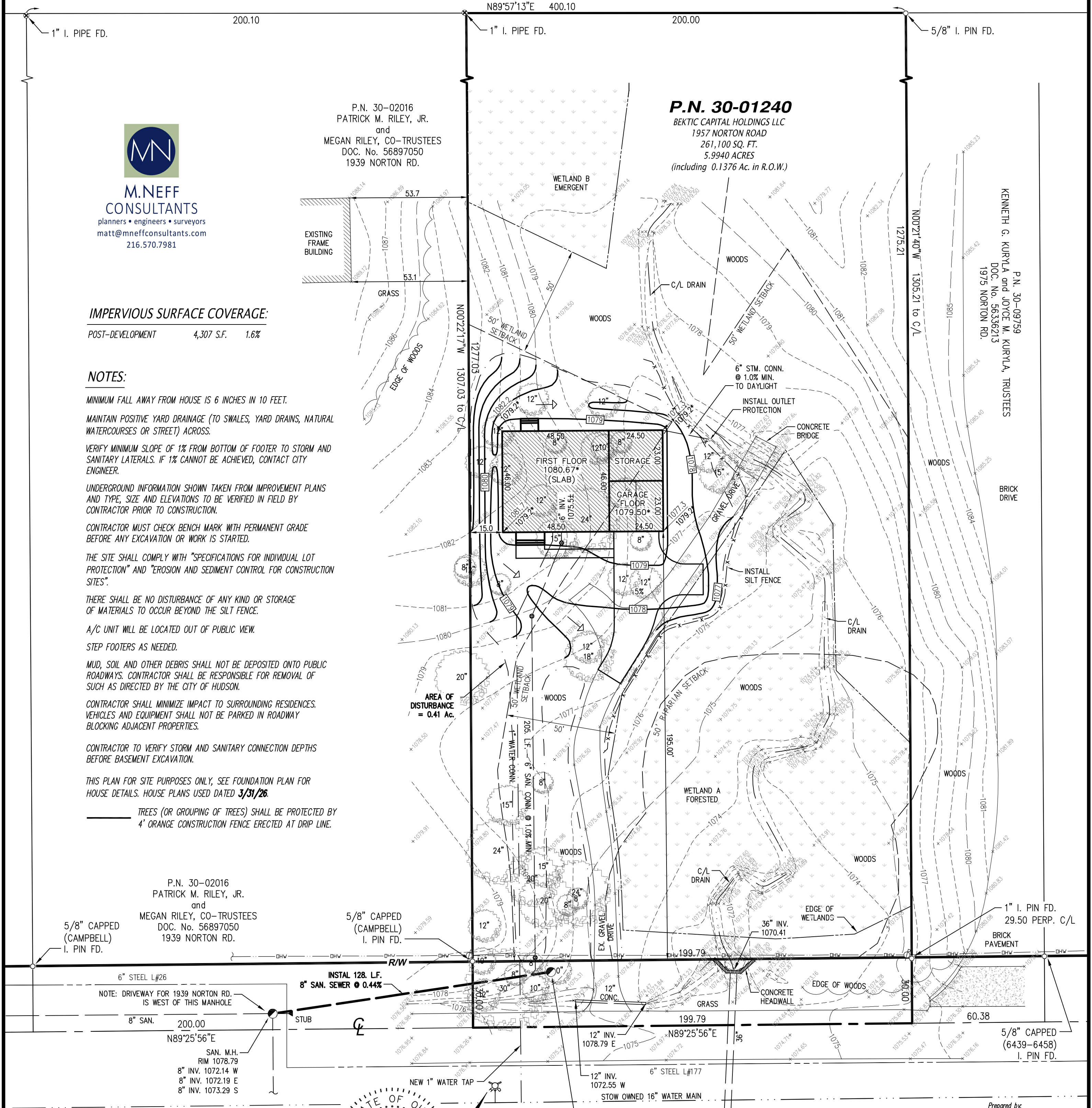
JAN. 22, 2026
FEB. 19, 2026
APRIL 29, 2026
MAY 15, 2026

P.N. 30-05948
BUILDON LLC
DOC. No. 56360038
1920 GEORGETOWN RD.

P.N. 30-02016
PATRICK M. RILEY, JR.
and
MEGAN RILEY, CO-TRUSTEES
DOC. No. 56897050
1939 NORTON RD.

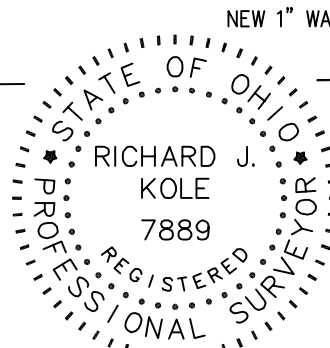
P.N. 30-01240
BEKTIC CAPITAL HOLDINGS LLC
1957 NORTON ROAD
261,100 SQ. FT.
5.9940 ACRES
(including 0.1376 Ac. in R.O.W.)

P.N. 30-09759
KENNETH G. KURPYLA and JOYCE W. KURPYLA, TRUSTEES
DOC. No. 56336213
1975 NORTON RD.



P.N. 30-02016
PATRICK M. RILEY, JR.
and
MEGAN RILEY, CO-TRUSTEES
DOC. No. 56897050
1939 NORTON RD.

5/8" CAPPED (CAMPBELL) I. PIN FD.
6" STEEL L#26
NOTE: DRIVEWAY FOR 1939 NORTON RD. IS WEST OF THIS MANHOLE
8" SAN. 200.00
N89°25'56"E
SAN. M.H. RIM 1078.79
8" INV. 1072.14 W
8" INV. 1072.19 E
8" INV. 1073.29 S



BENCH MARK TOP OF HYD. = 1078.78
INSTALL SAN. M.H. (25' off C/L) RIM 1076.50* 8" INV. 1072.75* W

NORTON ROAD 60' (C.H. 120)

Prepared by:
RIMKOLE & ASSOC. CORP.
surveyors • consultants • planners • utilities • osp
5316 Ridge Road - Cleveland, Ohio 44129
Phone 440.885.7137 - Fax 440.885.7139
www.kolesurvey.com
File No. 25202 SITE

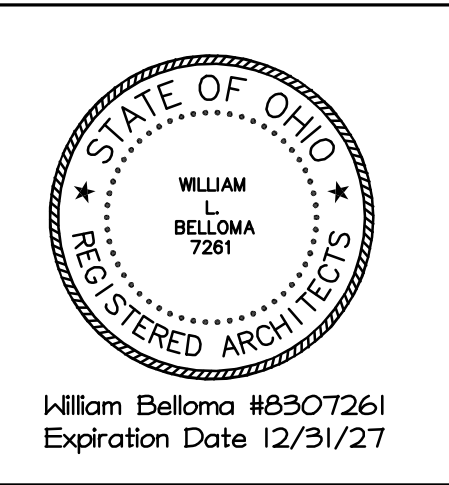
Dimensions shown hereon are expressed in feet and decimal parts thereof. Monuments were found or set as indicated hereon. Bearings shown are based upon State Plane Grid North, NAD 83 (2011), Ohio North Zone. Tied by GNSS to O.D.O.T. VRS, all of which I certify to be correct to the best of my knowledge and belief.
Richard J. Kole 5/15/26
Richard J. Kole, Reg. Surveyor #7889 Date

New Resident Building Envelope

for

Zamir Bektic

1957 E. Norton Road
Hudson, Ohio 44236

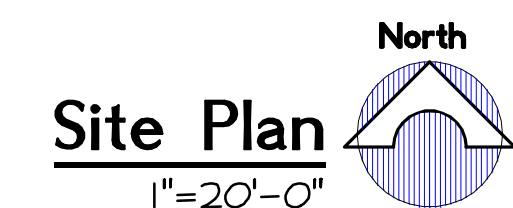


INDEX OF DRAWINGS

Cover Sheet	Plumbing
Architectural	MEP-1 Sanitary Plumbing Plans & Details
A-1.1 Foundation Plan	MEP-1.2 Plumbing Sanitary Isometric
A-1.2 1st. Floor Plan & Notes	MEP-2 Plumbing Domestic Water/Gas Plans & Details
A-1.3 2nd. Floor Plan & Notes	HVAC
A-2 Roof Plan & Details	MEP-3 H.V.A.C. Plans & Details
A-3 Elevations	Electrical
A-4 Cross/Wall Section & Details	MEP-4 Electrical Power Plan & Detail
A-5 Specifications	MEP-5 Electrical Lighting Plan & Detail
Structural	

General Notes:

1. ALL WORK INDICATED ON ARCHITECTURAL (A-xx) & SITE DWG'S, IS BY GENERAL CONTRACTOR UNLESS NOTED OTHERWISE. ALL OTHER WORK IS INDICATED ON RESPECTIVE TRADES PLANS AND DETAIL NOTED AS M.E.P. DRAWINGS.
2. G.C. MUST COORDINATE ALL MECHANICAL AND ELECTRICAL ITEMS (CONVECTORS, PANELS ETC.) LOCATED IN WALLS WITH THE RESPECTIVE TRADE. G.C. SHALL CONSTRUCT OR CUT REQUIRED OPENINGS AND PROVIDE LINTELS. OPENING SIZES AND LOCATIONS SHALL BE AS DIRECTED BY THE RESPECTIVE TRADE CONTRACTOR.
3. G.C. SHALL CONSTRUCT OR CUT ALL MECHANICAL OPENINGS THRU WALLS WHEREVER INDICATED ON MECHANICAL DRAWINGS. ALL OPENINGS OVER 14" IN WIDTH SHALL HAVE LINTELS IN ACCORDANCE WITH THE LOOSE LINTEL SCHEDULE. (SEE STRUCTURAL DRAWINGS)
4. OPENINGS UNDER 14" IN WIDTH WILL NOT REQUIRE LINTELS UNLESS THE STRUCTURAL INTEGRITY OF THE CONSTRUCTION IS AFFECTED. (ARCHITECT MUST BE NOTIFIED)
5. PIPING OPENINGS, THROUGH EXISTING WALLS, UNDER 4" SHALL BE CORE DRILLED BY THE RESPECTIVE TRADE CONTRACTOR. PIPE OPENINGS THROUGH EXISTING WALLS OVER 4" SHALL BE CORE DRILLED AND/OR OTHERWISE SAW CUT BY THE G.C.
6. ALL MECHANICAL OPENINGS SHALL BE LOCATED AND SIZED BY THE MECHANICAL CONTRACTOR AND CONSTRUCTED BY THE GENERAL CONTRACTOR.



Site Note

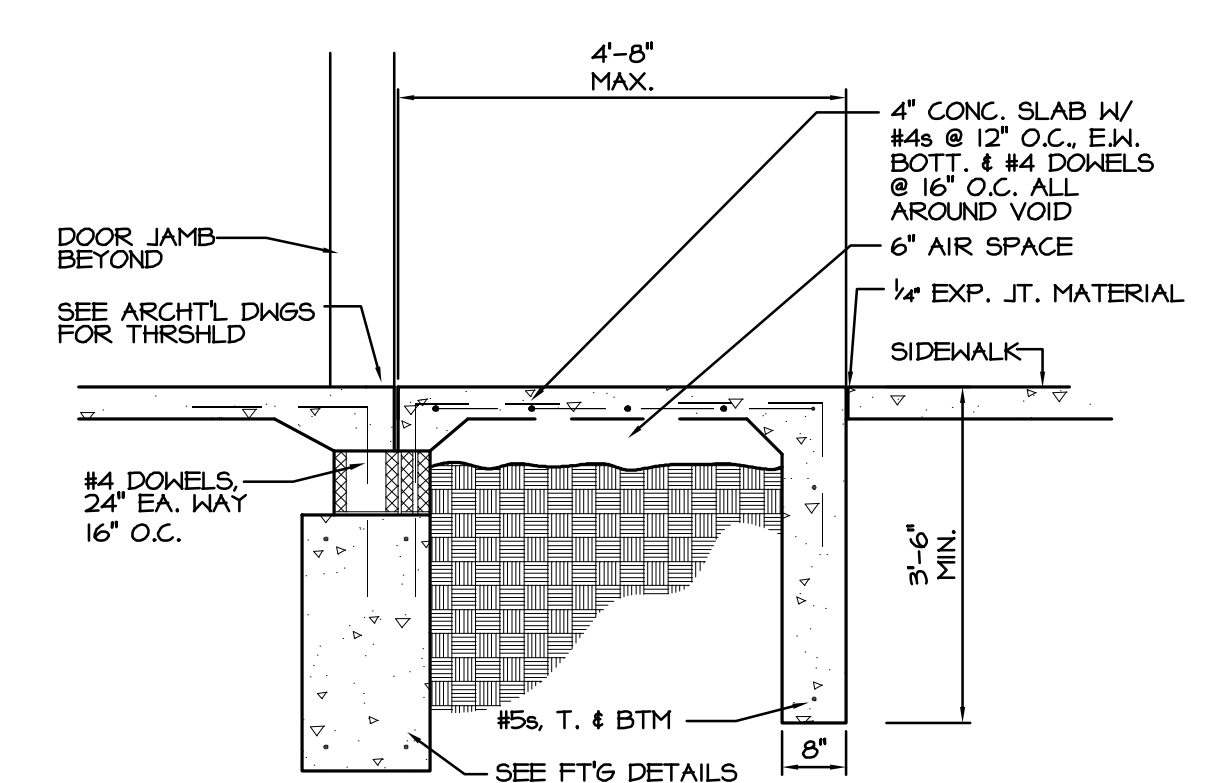
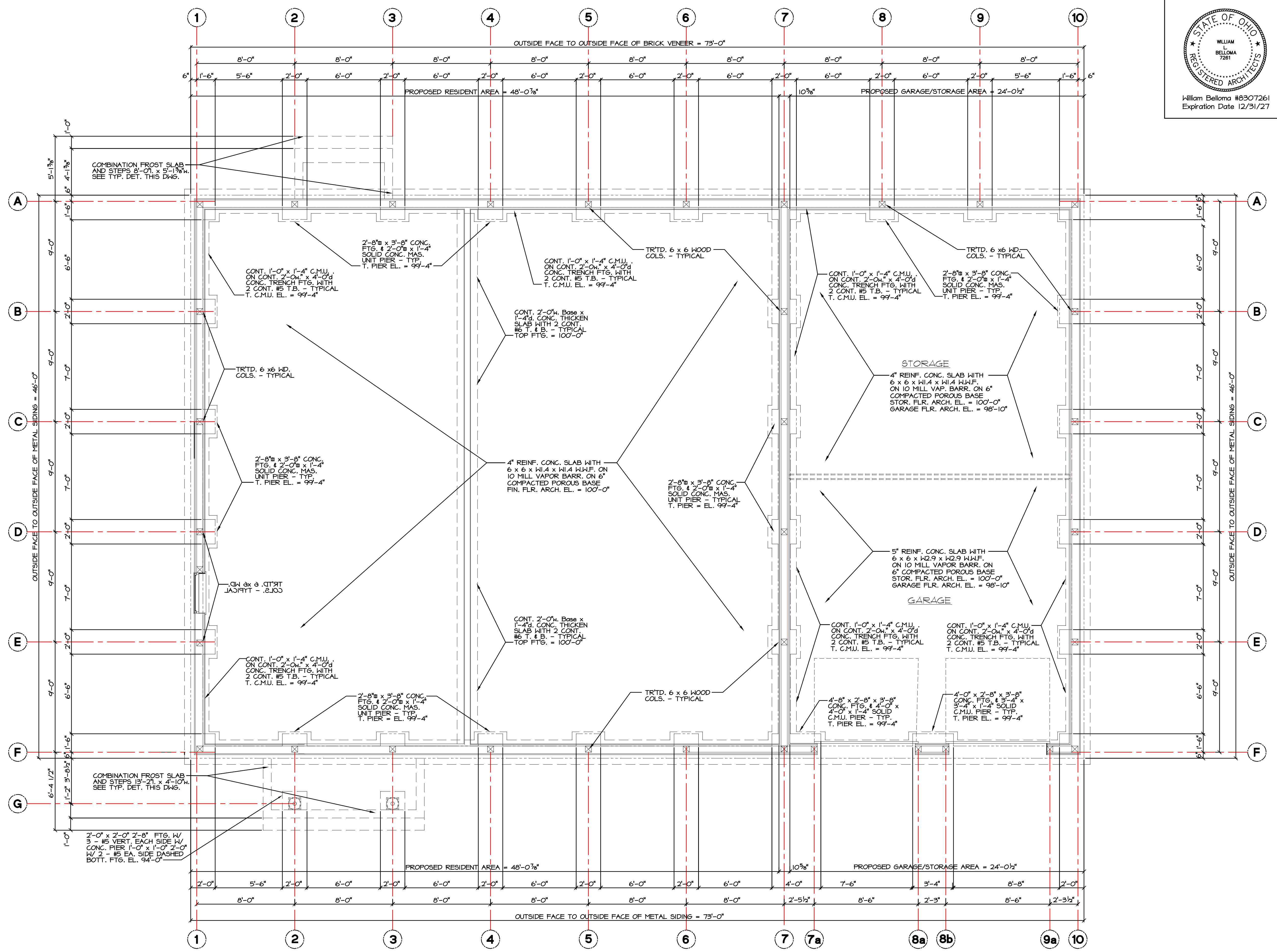
SITE AND BOUNDARY INFORMATION SHOWN ON THIS DRAWING WAS DERIVED FROM INFORMATION PROVIDED/DOWNLOADED FROM COUNTY RECORDS BY OWNER. NO FORMAL SURVEY WAS PERFORMED.

DWG. NO.

Cover

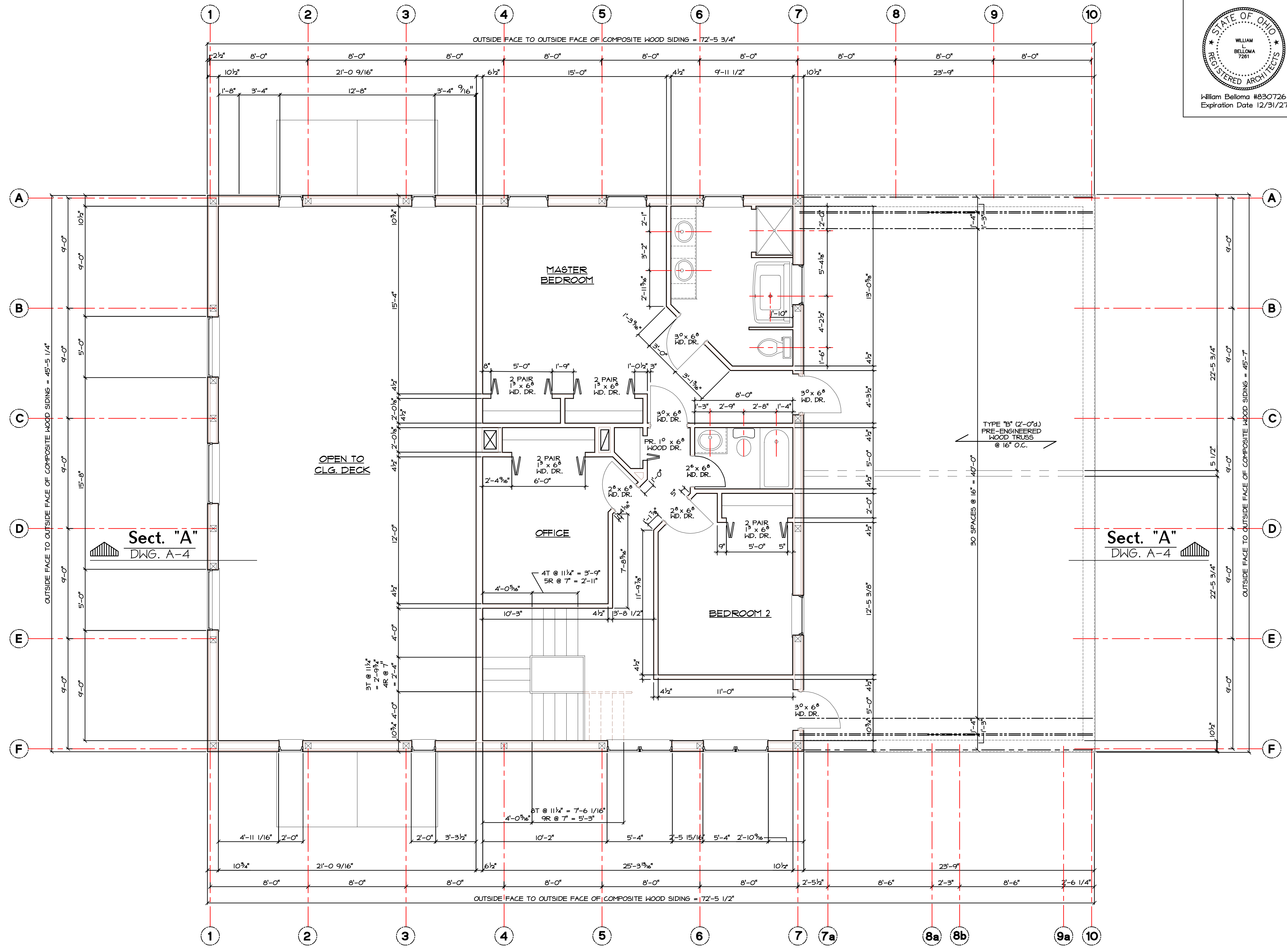
DATE **March 31, 2026**

REVISION _____



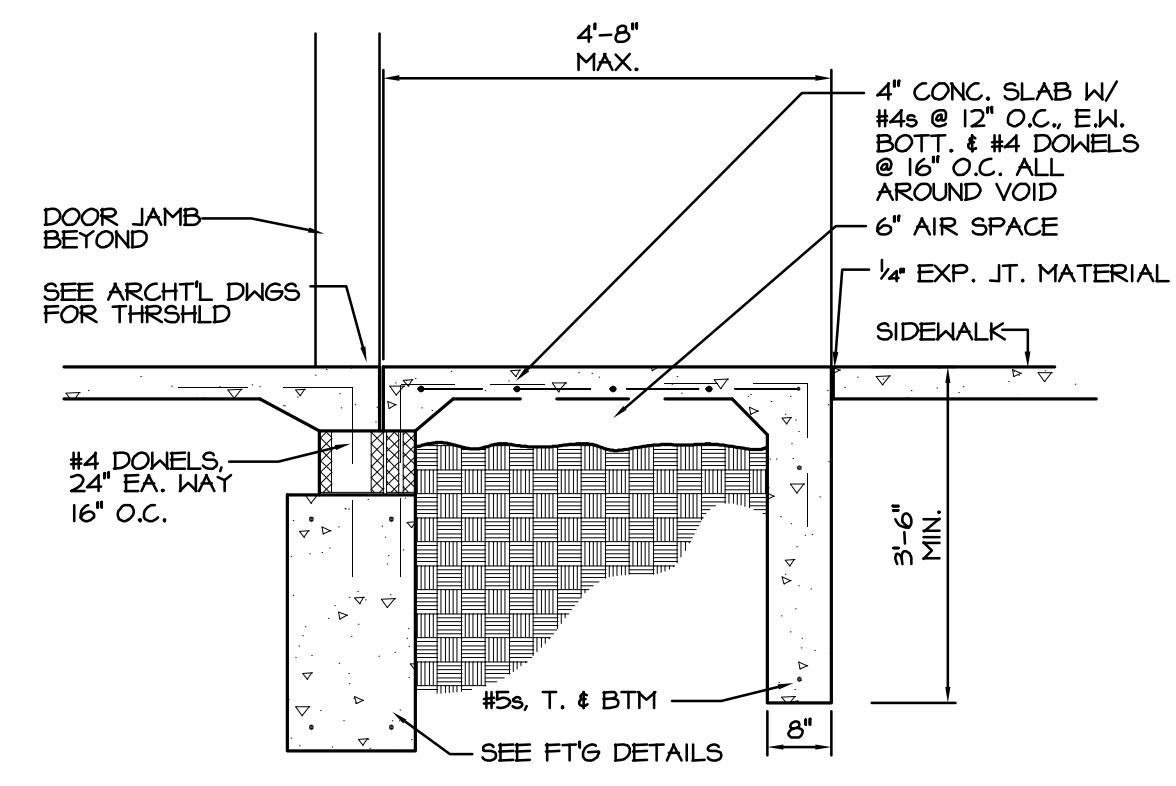
Typical Frost Slab Detail
 1/2" = 1'-0"

Foundation Floor Plan
 1/4" = 1'-0"



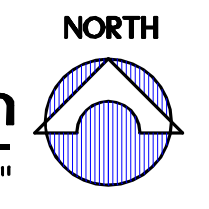
Sect. "A"
 DWG. A-4

Sect. "A"
 DWG. A-4



Typical Frost Slab Detail
 1/2" = 1'-0"

2nd. Floor & Roof Framing Plan
 1/4" = 1'-0"



DWG. NO.	A-13
DATE	March 31, 2026
REVISION	

Structural Notes:

- B. DESIGN STRESSES**
1. Soil Bearing Assumed ----- 2,000 PSF
 2. Soil Bearing Pressure ----- 2,500 PSF
 3. Soil Bearing Pressure ----- 3,500 PSF
 4. Concrete (at 28 days) ----- $f'_c = 4,000$ PSI
 5. Reinforcing Steel (A615 grade 60) ----- $f_y = 60,000$ PSI
 6. Structural Steel (A36) ----- $f_y = 36,000$ PSI
 7. Steel Joists (K Series) ----- $f_y = 50,000$ PSI
 8. Welded Wire Mesh (A-185) ----- $f_s = 60,000$ PSI
 9. Steel Deck ----- $f_s = 20,000$ PSI
 10. Masonry ----- 170 PSI
 11. Steel Deck ----- $F_b = 33,000$ PSI

- C. CONCRETE CONSTRUCTION** (unless otherwise noted)
1. Slabs on Ground - 6 x 6 W2.9 x W2.9 welded wire mesh reinforcing
 2. All concrete construction to be in accordance with the latest A.C.I. Code and A.C.I. Detailing Manual.
 3. Reinforcing for slabs on ground shall be in the middle of the slab except as otherwise noted. Reinforcing shall be positively supported in this position and shall be maintained in this position during placing of concrete.
 4. All epoxy-coated bars shall conform with ASTM A775 where required.
 5. Cylinder test required by certified soil testing firm reporting on 7, 14, and 21 day test results.

- D. FOUNDATIONS** (unless otherwise noted)
1. Elevations given are to bottom of footings.
 2. Bearing into Hard Brown grey clay - elevations given are approximate and shall be adjusted to suit field conditions.
 3. Existing Foundations -
 - a. Existing Foundations as shown are approximate. Exact condition must be verified at time of construction.
 - b. When new footings meet existing Footings, they shall be stepped at ratio 2 to 1 slope (Two horizontal to one vertical).
 4. Provide 2 - #5 top & bottom continuous in all footings directly under masonry walls.
 5. Footings shall be poured on hard dry earth. Open cuts shall not be exposed for more than 24 hours. No "Cold Joints" permitted.
 6. Compact all fill to 100% of optimum laboratory density in accordance with ASTM D698 Standard Proctor Method. Place fill in 8" layers and compact with approved tamping/compacting equipment. A structural/geotechnical engineer shall be present for all concrete placement and approve same prior to pour.

- E. STEEL CONSTRUCTION** (unless otherwise noted)
1. Shop Connections - welded or bolted.
 2. Field Connection - welded or friction type high strength bolts (A325SSC) with hardened washers and threads included in the shear plane.
 3. Shop drawings shall note type of electrode, size of all welds, and type and size of all bolts.
 4. Painting - Provide shop primer coat (Grey).
 5. Beams bearing on masonry shall have angle wall anchors.
 6. Steel construction shall conform to the latest A.I.S.C. Specifications and Code of Standard Practice.
 7. All shop and field welding shall be done by a certified welder.

- F. MASONRY WALLS**
1. Masonry walls shall be adequately braced to resist wind and other loads imposed during construction.
 2. Provide a minimum of 8" deep x 16" wide solid masonry under bearing ends of all joists, slabs or beams.

- G. ROOF OPENINGS**
1. The contractor shall verify with the Heating/Ventilating Contractor the number, the size, and the location of all openings for his work and provide frames as detailed.

- H. LINTELS**
1. This schedule is for material not otherwise shown or noted on drawings.
- | Span Limits | Angle Size |
|----------------|------------------------|
| 0' to 4'-0" | 3-1/2" x 3-1/2" x 1/4" |
| 4'-1" to 5'-6" | 4" x 3-1/2" x 5/16" |
| 5'-7" to 7'-6" | 5" x 3-1/2" x 5/16" |
| 7'-7" to 9'-6" | 6" x 3-1/2" x 3/8" |

- Provide one angle for each 4' of masonry wall thickness.
 - Angles exposed to weather shall be 3/8" minimum thickness and hot-dip galvanized.
 - Minimum bearing shall be 6" each end.
- For 6' walls provide:

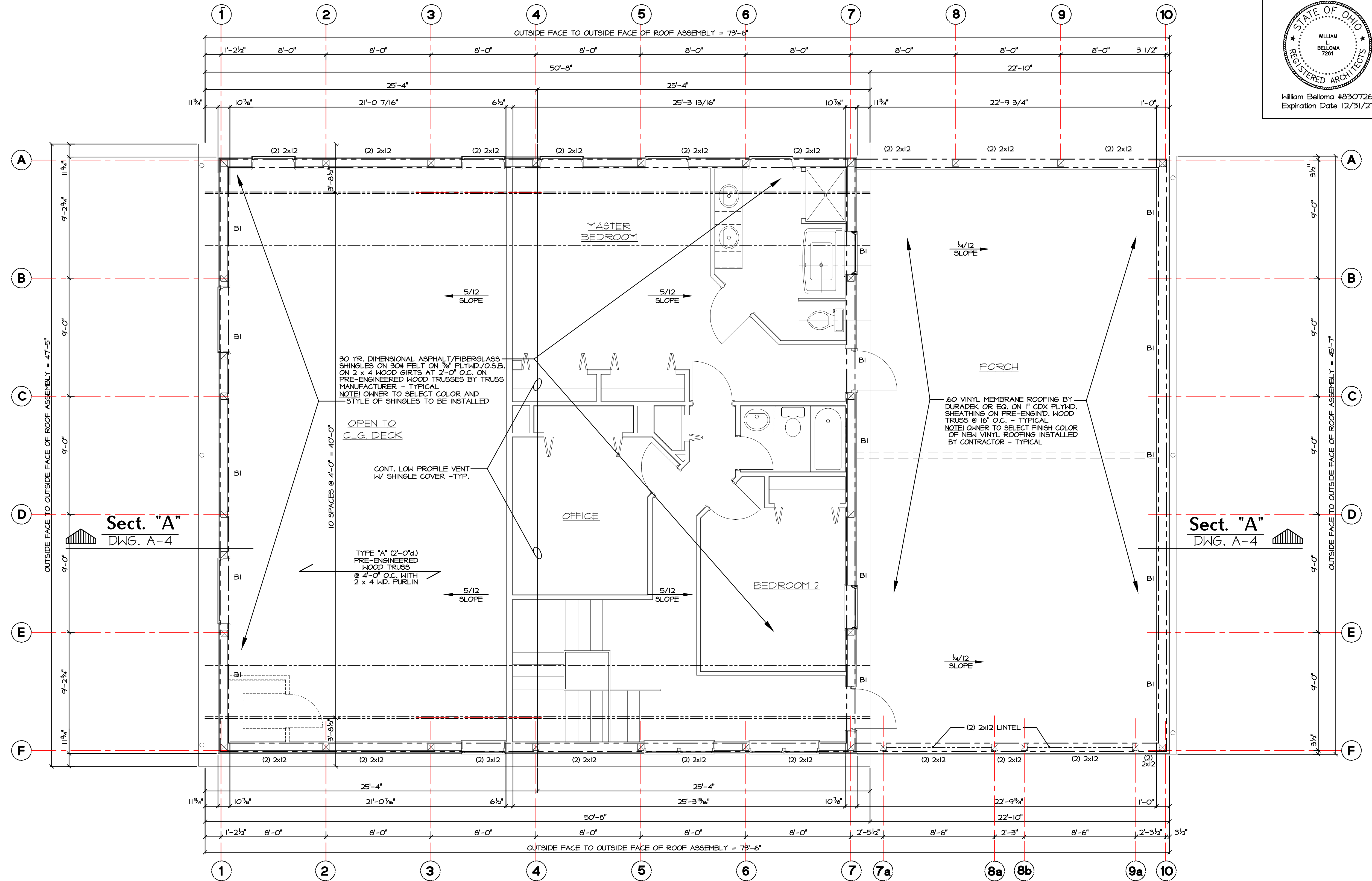
Span to 4'-0"	WT 5 x 6.0
to 5'-6"	WT 5 x 8.5
to 6'-0"	WT 5 x 11.5

 Weld continuously both sides to 5' x 1/4" plate flange. (Make flange plate 3/8" thick at exterior openings).

- J. STRUCTURAL WOOD** (unless otherwise noted)
- Premanufactured/Preengineered Trusses**
Truss manufacturer shall supply the following information:
 - a. Truss configuration, including span, pitch, loading diagram, and spacing of panel points.
 - b. Loading requirements, see Structural Loading this drawing:
Top Chord: Roof Live Load 30 PSF
Bottom Chord: Roof Dead Load 10 PSF
 - c. Truss shall be design to take additional upper wall and roof loads including Snow Load for drifting and Mechanical Equipment. See Architectural and Mechanical Drawings for locations and weights.
 - d. Species, stress grade, and nominal size of lumber used.
 - e. Design live and dead loads including panel point loads and reactions.
 - f. Manual or computer printout of axial forces and flexural stress plus design of member for combined loading as required.
 - g. Joint and splice connection design details.
 - h. Drawings and calculations stamped by a professional engineer registered in the State of Ohio.
 - i. Design, fabrication and erection shall be in accord with the American Institute of Timber Construction (AITC) and attached in accord with Truss Plate Institute (TPI) recommendations, $F_b = 1,200$, Deflection L/360, $E = 1,760,000$ psi
 - k. Truss installer shall provide Hurricane clip No. H2.5AZ by Simpson Strong Tie at each bearing point per Truss Manufacturer drawings, specifications, and recommendations.
 - Roof Rafters - Douglas Fir with allowable design stresses: $F_b = 1,500$, Deflection L/360, $E = 1,760,000$ psi
 - Ceiling Joist - Douglas Fir with allowable design stresses: $F_b = 1,500$, Deflection L/360, $E = 1,760,000$ psi
 - All headers to be 2-2x12s unless noted otherwise on drawings.
 - All wood members shall conform to the latest standards and specifications adopted by the National Forest Products Association and the American Institute of Timber Construction

Header Schedule

BI - (2) 1 3/4" x 11 1/2" LVL or 2 x 12



Structural Loading AS APPLICABLE

- ALL STRUCTURAL WOOD MEMBERS SHALL BE STRUCT. GRADE DOUGLAR FIR WITH MIN. F_b 1500 P.S.F. AND LIVE LOAD LISTED BELOW:

ATTIC SPACE & ROOF UNINHABITABLE ATTIC, SOFFITS, ECT.	Load
ATTIC SPACE & ROOF UNINHABITABLE ATTIC, SOFFITS, ECT.	- 30 P.S.F.
UNINHABITABLE ATTIC, SOFFITS, ECT.	- 20 P.S.F.
- ROOF SNOW LOADS**

Load	Value
a. Ground Snow Load (P_g)	- 20 P.S.F.
b. Exposure Factor (C_e)	- 1.0
c. Importance Factor (I)	- 1.0
d. Flat Roof Snow Load	- N.A.
e. Thermal Factor (C_t)	- 1.0
- ROOF LOADS**

Load	Value
a. Live Load	- 20 P.S.F.
a. Dead Load	- 20 P.S.F.
- WIND LOADS**

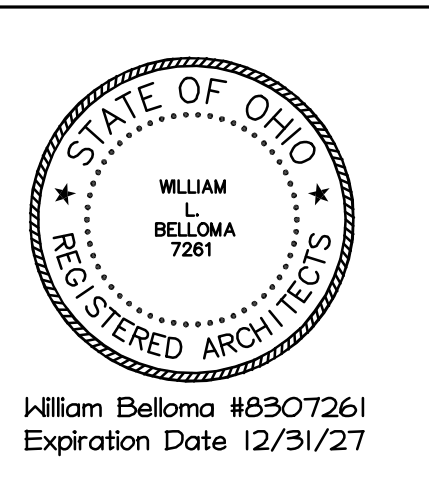
Load	Value
a. Basic Wind Speed (# Second Gust)	- 115 M.P.H.
b. Importance Factor	- 1.0
c. Exposure Category (M-WFRS)	- B
d. Internal Pressure Coefficient	- 0.18
- SEISMIC LOADS**

Parameter	Value
a. Seismic Design Category	- B
b. Seismic Importance Factor	- 1.0
c. Site Class	- D
d. Mapped Spectral Response Accel.	-
$S_s = 0.164$	
$S_1 = 0.151$	
e. Spectral Response Coefficient	-
Short Periods (SDS)	- 0.175
1 Second Periods (SD1)	- 0.081
f. Wood Shear Walls Response MOD Factor (R)	- 6.5
g. Design Base Shear (V)	- 2.8k
- ANBALYSIS BY SIMPLIFIED PROCEDURE
- ALL PRE-ENGINEERED TRUSSES MUST BE DESIGNED/STAMPED BY REGISTRAR STRUCTURAL ENGINEERED WITH THE STATE OF OHIO SEAL.
- CONCRETE FLOOR - 100 P.S.F.

Roof/Roof Framing Plan

NORTH

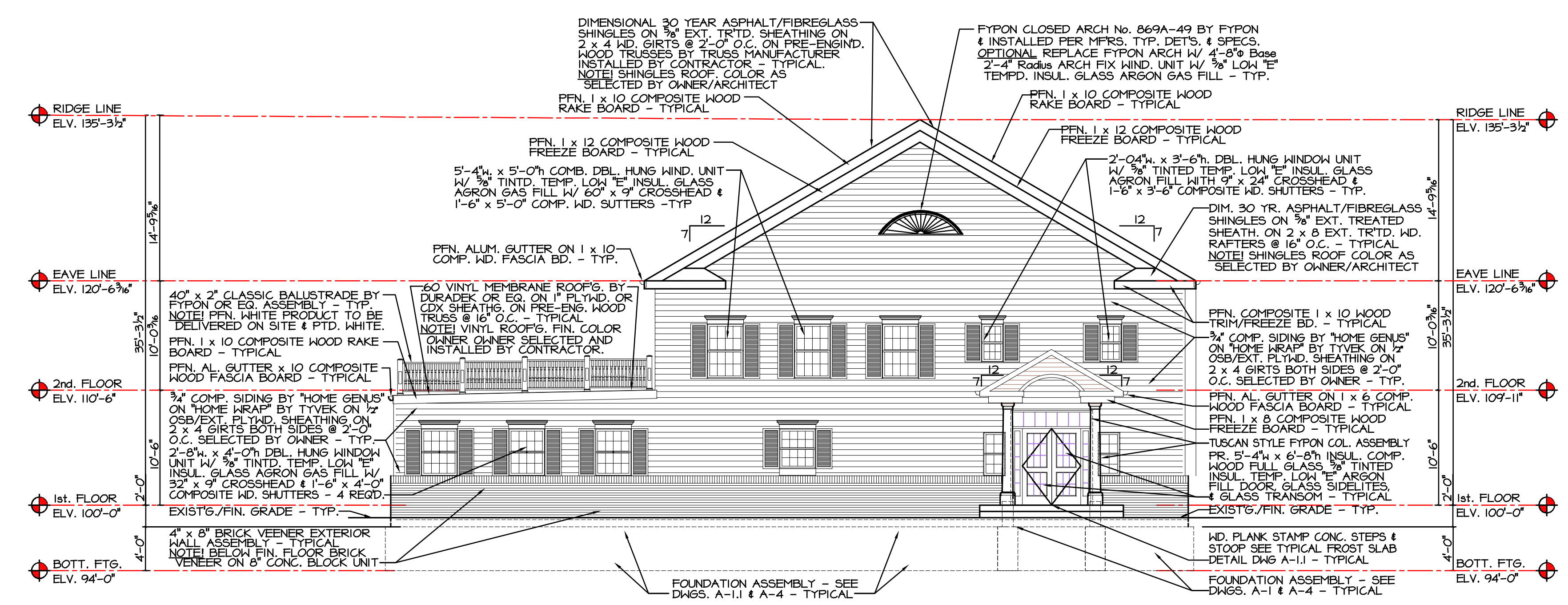
1/4" = 1'-0"



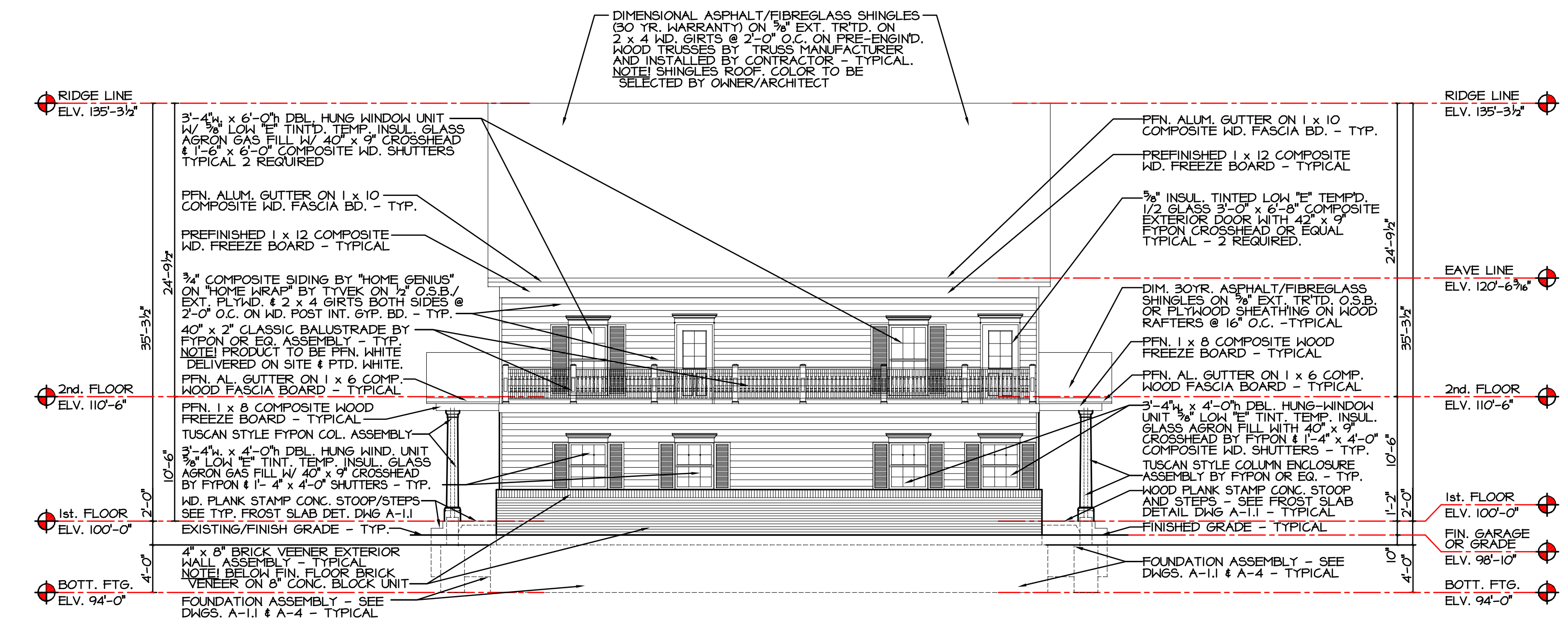
DWG. NO. **A-2**
DATE **March 31, 2026**

Bellomo Consulting
1922 Canal Blvd. Bellomo, OH 44801
Copyright 1999 WLB Architect
This drawing or any part thereof shall not be reproduced or modified without the consent of WLB Architect.

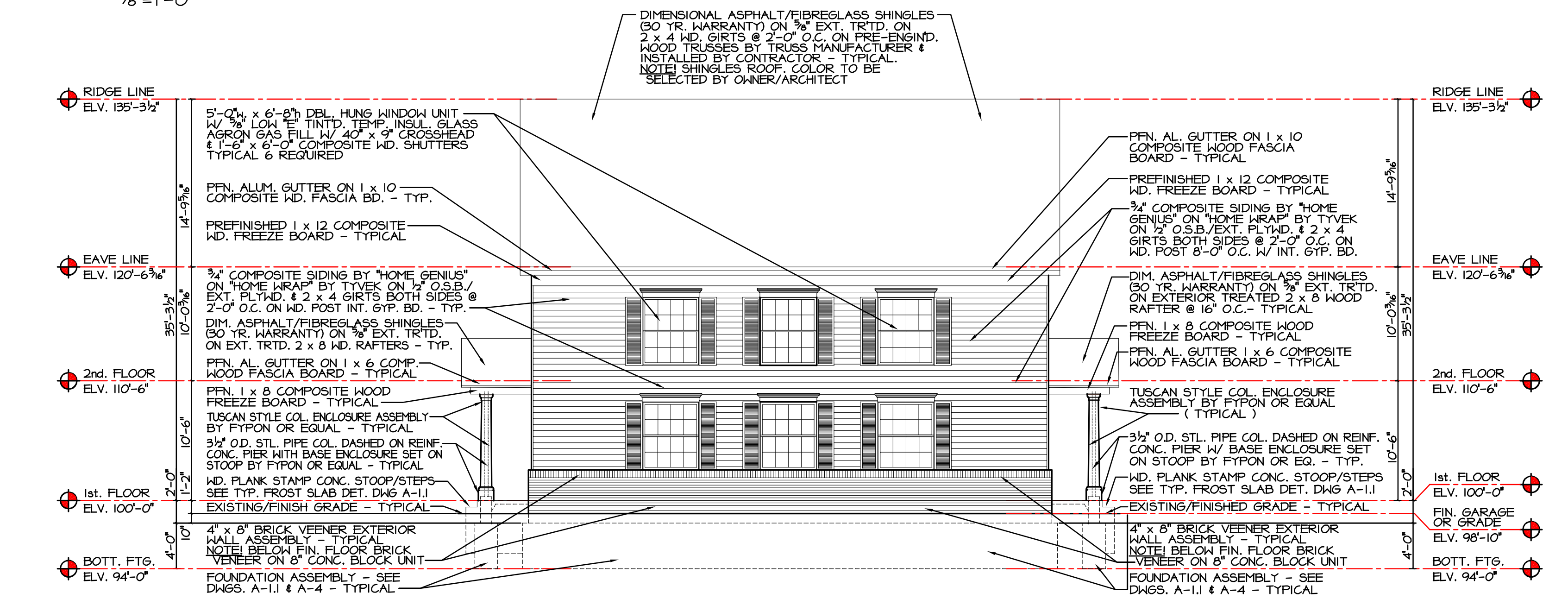
REVISION _____



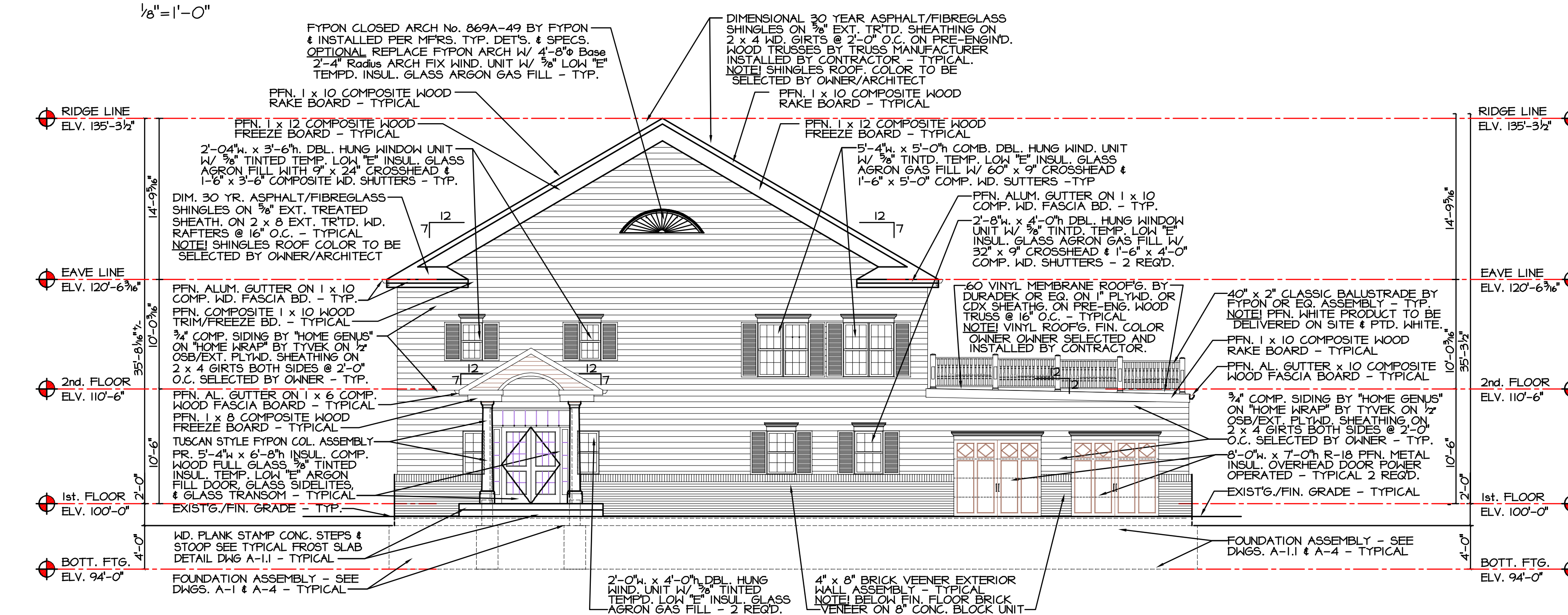
North (Rear) Elevation
 $\frac{1}{8}'' = 1'-0''$



East (Side) Elevation
 $\frac{1}{8}'' = 1'-0''$

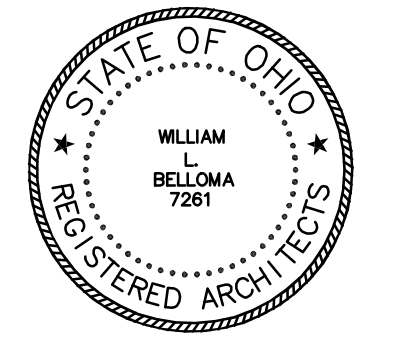


West (Side) Elevation
 $\frac{1}{8}'' = 1'-0''$

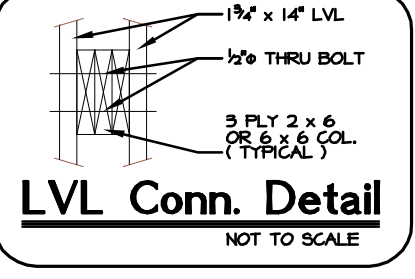
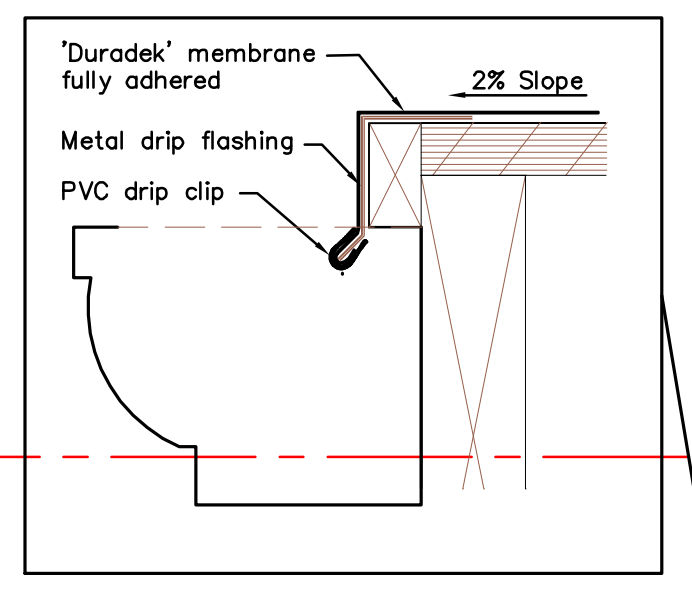
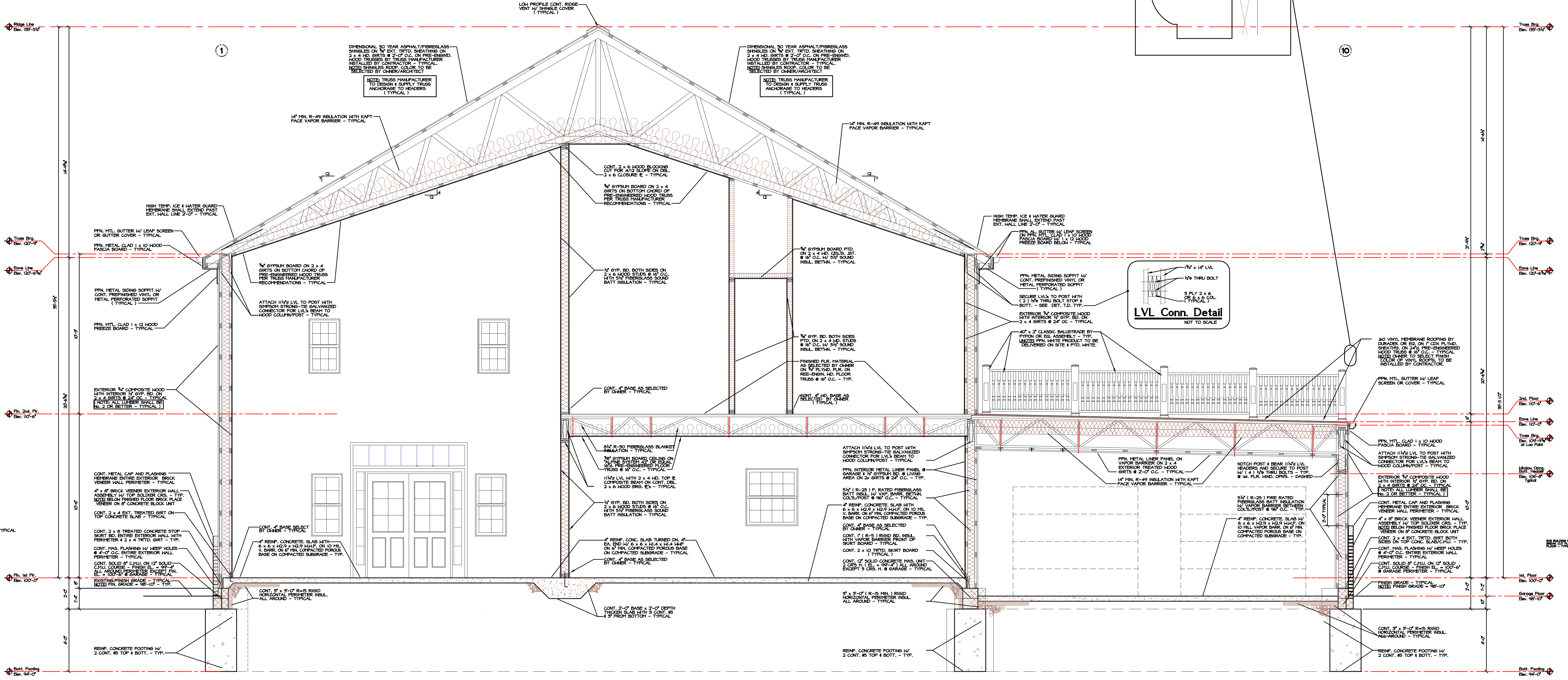


South (Front) Elevation
 $\frac{1}{8}'' = 1'-0''$

- GENERAL NOTES:**
1. SEE DRAWINGS ARCH. & MEP'S DRAWINGS FOR TYPICAL CONSTRUCTION INDICATED BUT NOT NOTED.
 2. BUILDING ELEVATIONS INDICATED INTERIOR FINISH FLOOR ELEVATIONS AND ASSUMES ELEVATION xxx'xx" (100'-0") IS THE START OF MASONRY COURSING; ADJUST FOUNDATIONS, COLUMNS, ETC., IN CONJUNCTION WITH ANY FIELD CONDITIONS INCOUNTERED AS DIRECTED BY ARCHITECT/OWNER.
 3. DOWNSPOUNTS NOT SHOWN FOR CLARITY SEE ROOF PLAN DRAWING A-3 FOR LOCATION OF ALL DOWNSPOUNTS.

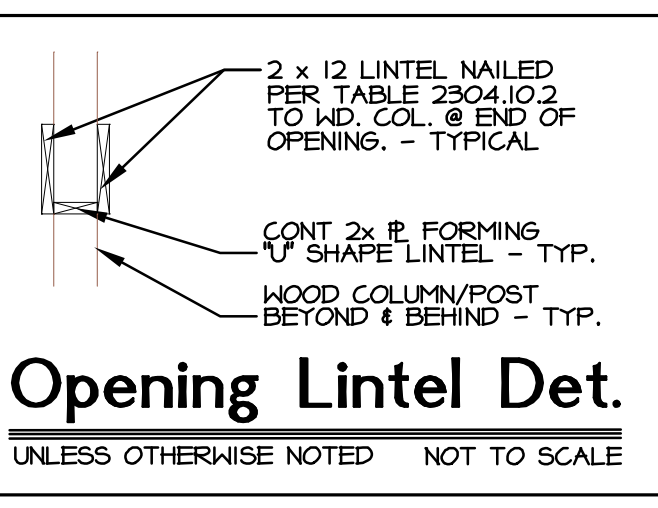


William Belloma #8307261
Expiration Date 12/31/27



Building Wall/Cross Section

1/2" = 1'-0"



Nailing Schedule

2 x 8 0.14CA-B TREATED	(8) 12D DOUBLE HOT-DIPPED GALVANIZED NAIL
PURLINS & GIRTS 2 x 4 #/W2 SPF	(8) 12D SMOOTH NAILS PER POST (8) 12D SMOOTH NAILS AT SPICE
(2) 1 3/4 x 11 1/4 HEADERS TO POST (INTERIOR POST TRMT. ONLY BOTT. 6'-0" @) (EXTERIOR POST TREATMENT FULL HEIGHT)	(4) 5/16" x 4" GRK SCREWS PER HEADER PER SIDE (12 SCREWS TOTAL) #NOTCH POST FOR TRUSS @ ALL TRUSS TO POST CONNECTIONS.
(2) 2 x 12 HEADERS TO POST (8' or Higher OPNG./Sliding Door) (POST TREATMENT ONLY BOTTOM 6'-0")	(6) 5/16" x 4" GRK SCREWS PER HEADER (18 SCREWS TOTAL)
Tie Down Block or Timber to Truss Heel	(6) 12D SMOOTH NAILS MIN.
Optional Truss Carrier to Tie Down Block Base - Simpson Strong Tie Hurricane clip No. H2.5AZ	(4) 12D SMOOTH NAILS (TYPICAL) PER HEADER PER SIDE
ADD BEARING BLOCKS WHERE REQUIRED FOR ADEQUATE FASTENER SPACING ALL CONNECTION PER O.B.C. TABLE 2304.6.1 thru TABLE 2304.8.3.2 ALL CONNECTIONS INTO TREATED LUMBER MUST BE GALVANIZED-COATED OR STAINLESS-STEEL 304/316	

DWG. NO. **A-4**
DATE **March 31, 2026**
REVISION _____

Span Tables for FLOOR TRUSSES

These allowable spans are based on NDS 2005. Maximum deflection is limited by L/360 or L/480 under live load. Basic Lumber Design Values are F_b = 2000 psi F_v = 1100 psi E = 1,800,000 psi Duration of Load = 1.00. Spacing of trusses are center-to-center (in inches).

Top Chord Dead Load = 10 psf. Bottom Chord Dead Load = 5 psf. Center Line Chord = 24" max. Trusses must be designed for any special loading, such as concentrated loads. Other floor and roof loading conditions and a variety of species and other lumber grades are available.

Center Spacing	Deflection Limit	4x2 Lumber					3x2 Lumber						
		12"	14"	16"	18"	20"	22"	12"	14"	16"	18"	20"	22"
16" o.c.	L360	222"	241"	261"	288"	304"	311"	190"	209"	224"	231"	253"	267"
	L480	202"	227"	241"	272"	294"	315"	180"	202"	224"	231"	253"	267"
19.2" o.c.	L360	209"	228"	244"	260"	276"	290"	173"	189"	203"	217"	221"	241"
	L480	181"	213"	236"	257"	276"	290"	161"	189"	203"	217"	221"	241"
24" o.c.	L360	185"	201"	217"	231"	245"	259"	152"	167"	171"	191"	202"	213"
	L480	177"	199"	217"	231"	245"	259"	152"	167"	171"	191"	202"	213"

Center Spacing	Deflection Limit	40 PSF Live Load 55 PSF Total Load					40 PSF Live Load 55 PSF Total Load						
		12"	14"	16"	18"	20"	22"	12"	14"	16"	18"	20"	22"
16" o.c.	L360	194"	214"	230"	248"	260"	274"	163"	179"	192"	205"	218"	229"
	L480	177"	199"	211"	239"	258"	274"	159"	178"	192"	205"	218"	229"
19.2" o.c.	L360	179"	194"	201"	223"	237"	241"	149"	161"	174"	185"	197"	207"
	L480	167"	187"	206"	223"	237"	241"	149"	161"	174"	185"	197"	207"
24" o.c.	L360	159"	172"	186"	199"	201"	220"	130"	142"	153"	164"	173"	182"
	L480	154"	172"	186"	199"	201"	220"	130"	142"	153"	164"	173"	182"

Center Spacing	Deflection Limit	60 PSF Live Load 75 PSF Total Load					60 PSF Live Load 75 PSF Total Load						
		12"	14"	16"	18"	20"	22"	12"	14"	16"	18"	20"	22"
16" o.c.	L360	194"	214"	230"	248"	260"	274"	163"	179"	192"	205"	218"	229"
	L480	177"	199"	211"	239"	258"	274"	159"	178"	192"	205"	218"	229"
19.2" o.c.	L360	179"	194"	201"	223"	237"	241"	149"	161"	174"	185"	197"	207"
	L480	167"	187"	206"	223"	237"	241"	149"	161"	174"	185"	197"	207"
24" o.c.	L360	159"	172"	186"	199"	201"	220"	130"	142"	153"	164"	173"	182"
	L480	154"	172"	186"	199"	201"	220"	130"	142"	153"	164"	173"	182"

Center Spacing	Deflection Limit	85 PSF Live Load 100 PSF Total Load					85 PSF Live Load 100 PSF Total Load						
		12"	14"	16"	18"	20"	22"	12"	14"	16"	18"	20"	22"
16" o.c.	L360	161"	186"	191"	213"	228"	238"	141"	155"	167"	178"	189"	199"
	L480	158"	177"	195"	212"	226"	238"	140"	155"	167"	178"	189"	199"
19.2" o.c.	L360	154"	169"	181"	193"	205"	218"	129"	131"	150"	160"	161"	171"
	L480	149"	166"	181"	193"	205"	218"	129"	131"	150"	160"	161"	171"
24" o.c.	L360	138"	141"	160"	171"	181"	191"	113"	123"	133"	141"	141"	159"
	L480	138"	141"	160"	171"	181"	191"	113"	123"	133"	141"	141"	159"

(1) Vibration Control - Research by Virginia Tech indicates that L480 live load deflection criteria provides a high degree of resistance to floor vibration (bounce). The building designer desiring this benefit may choose to specify an L480 live load deflection criteria to be used for the floor trusses.

www.alpineitw.com 5

ROOF TRUSS DESIGN

Single slope design = Total Live Load 55 PSF for 40 PSF Snow Load for Lower Roof
Use line for 55/1.15 40 Snow - 24" Depth 1
Span 2 x 4 Top & Bottom Chord

Flat - This most economical flat truss for a roof is provided when the depth of the truss in inches is approximately equal to 7% of the span in inches.

Total load (PSF)	Duration Factor	55		47		40	
		1.15	1.15	1.15	1.15	1.15	1.25
40 snow		40 snow	30 snow	20 snow	20 rain or const.		

Depth	Spans in feet to out of bearing	
	40 snow	30 snow
16"	23 24 25	25 25 25
18"	25 27 28	27 27 29
20"	27 28 30	28 28 32
24"	29 30 33	31 31 35
28"	32 32 36	34 33 39
32"	33 33 38	35 35 40
36"	36 36 42	39 38 42
42"	38 39 45	41 41 48
48"	40 42 49	43 44 52
60"	44 47 55	46 48 58
72"	45 51 60	48 54 64

§ = Span Limited by length to depth ratio of 24

NOTES: These overall spans are based on NDS '01 with 4" nominal bearing each end, 24" o.c. spacing, a live load deflection limited to L/240 maximum and use lumber properties as follows: 2x4 (L=2000 psi) E=1,800,000 psi F_b=1750 psi F_v=950 psi (E=1900 psi E=1.8x10⁶). Allowable spans for 2x4 top chord trusses using sheathing other than plywood (e.g. spaced sheathing or 1/2" boards) may be reduced slightly. Trusses must be designed for any special loading, such as concentrated loads from hanging partitions or air conditioning units, and snow loads caused by drifting near parapet or slide-off from higher roof. To achieve maximum indicated spans, trusses may require six or more panels. Trusses with an asterisk (*) that exceed 14' in height may be shipped in two pieces. Contact your local Alpine truss manufacturer or office for more information.

Gable slope design = Total Live Load 40 PSF for 20 PSF Snow Load for Lower Roof

Use line for 40/1.15 20 Snow - 1 Span
7/12 Slope 2 x 6 Top Chord &
4/12 Slope 2 x 6 Bottom Chord

Alpine truss designs are engineered to meet specific span, configuration and load conditions. The shapes and spans shown here represent only a fraction of the millions of designs produced by Alpine engineers.

Total load (PSF)	Duration Factor	85		47		40	
		1.15	1.15	1.15	1.15	1.25	1.25
40 snow		40 snow	30 snow	20 snow	20 "		

Pitch	Spans in feet to out of bearing	
	40 snow	30 snow
6/12 - 2/12	40 43 59*	42 49 62*
6/12 - 2/12	37 38 52	38 44 57*
6/12 - 3/12	33 33 45	35 38 52
6/12 - 3/12	28 28 36	32 32 44
6/12 - 4/12	22 22 31	26 26 36

*construction or rain, not snow load

Other pitch combinations available with these spans. For Example, a 5/12 - 2/12 combination has approx. the same allowable span as a 6/12 - 3/12

General Specifications

GENERAL NOTES

- Contractor (G. C.) shall verify all existing conditions before construction shall begin.
- Contractor (G. C.) shall patch and match holes in existing concrete block walls.
- Contractor (G. C.) shall comply to all national, state, and local agencies & code requirements.

ALLOWANCES

- Verify with Owner for list of Allowances they may want to pursue prior to Bid/Quote.
- Not Applicable or as directed by Owner prior to Bid/Quote.

ALTERNATES

Material Specifications

A. Glass, Glazing

- Exterior Aluminum Window Glass - 1' tempered insulating Solar Ban 60 Low 'E' 1/2" Air Space Argon Gas filled.
- Interior Window Glass - 1/4" tempered plate glass.
- Interior Door Glass - 1/4" tempered plate glass.
- Exterior Door Glass - 1' clear tempered insulating, Solar Ban 60 Low 'E' 1/2" Air Space Argon Gas Filled.

B. Hollow Metal Doors, Frames

- Frames - 16 ga., exterior, 18 ga. interior, bonderized and primed, Flush type. (See Drawings for additional requirements.)
- Doors - 16 ga., exterior, 18 ga. interior, bonderized and primed, Flush type. (See Drawings for additional requirements.)

C. Wood Doors

- Doors - Pre-finished Flush, 5 ply, solid core oak veneer label or non-labeled. See Floor Plan.

D. Hardware

- Manufacturers - Hinges - Stanley, Hager, McKinney, Locks (Mortise) - Yale, Schlage L9000, Russwin, Plates, Stops, Pulls - Zero, Rockwood, National Guard, Closers - Yale, LCN 4000, Russwin
- See Door Schedule Drawing A-4

E. Specialty Doors and Windows

- New 8' x 7' Sectional Overhead Doors Prefinished or Raised Panel (as directed by Owner), High Lift, (R=16), Door with 1/2" insulating glass, Model Thermocore 594 Garage by Overhead Door or Equal.
 - Tracks - 2" Galvanized Steel
 - Hardware - Heavy-duty, rust-resistant with steel ball bearings rollers.
 - Counterbalancing Mechanism - Torsion-springs calibrated for 10,000 cycles minimum including a spring-loaded bottom door assembly each side designed to automatically stop door if cables breaks.
 - Electric Operations - Electric door-operator assembly for single phase service as recommended and provided by the door manufacturer including 1/2 HP minimum, Trolley type, chain driven with clutch-disconnect release for manual operation. Electric motors to be constant-duty, high-starting torque, reversible, Class A - insulated, overload protection, and sized in either direction at 2/3 per foot min. to 1 foot per second max, NEMA Type 1.
 - Miscellaneous Operations - Door-operation shall be by Three (3) Button Control Stations, each door, Labeled Open, Close, and Stop, Heavy-duty, NEMA Type 1 including Radio Control Units each door (Open and Close Functions) and Automatic Reversing Control (Photo-Eye mounted at Truck Bumper Height directed by Owner).

F. Windows

- New Prefinished Aluminum clad wood windows, Size indicated on Drawings Finish color, Texture and Style as selected by Owner, Manufactured by Pella 'Casement Units' or equal by Canadco, Weathershield, Eagle Duro-Sheath. See Dwg. A-1 For new units, Casement Units Design Basis
- Optional Exterior Architectural Aluminum Storefront Windows Prefinished Fluorocarbon 2-coat system, Kynar 500 Finish, custom color, "KAWNEER" 451-T-VG or Armitite, P.P.G. Industries, and Vistawall equals. Unit shall be design to meet Dead Load 25 PSF, Live Load 20 PSF, Snow Load 30 PSF, 115 MPH Wind Load and Impact Load from airborne debris either man initiated or natural per Ohio Building Code Sect. 1607, ASTM 1886, Air Infiltration ASTM E-283 Water Penetration ASTM E-331, and Structural Loading ASTM E-330 complying with AAMA Standard 501-83. Provide from the date of Substantial Completion 10 year Warranty for Components and Glass Panel against material defects, workmanship, color deterioration, and seal failure. Additionally from the date of Substantial Completion provide 5 year Warranty for installation of Units. The Manufacturer Shop Drawings shall provide Engineer's Stamp with the Seal from the State of Ohio. The Engineer shall also certify that the Glazing provided meets Ohio Bldg. Code Section 1607 requirements for horizontal and vertical forces. (NOTE See Section 'A' Glass, Glazing Requirements.)

G. Concrete

- Concrete - 4000#, 6 sack, 4' slump, 5-7% air.
- Reinforcing - A. S. T. M. A-82
- Expansion Joint - W. R. Meadows Asphalt Expansion Joint.
- Damproofing Membrane - ACI 302.1R-96 Vapor Barrier Component 10 mils thick by Stego Industries LLC, or equal.
- Perimeter Insulation - Styrofoam FR.
- Column Bases Grout - Non-shrink, 6500, PSI at 28 days meeting ASTM 309.

H. Concrete Masonry Units

- Masonry Cement - A. S. T. M. C-19, Type 2.
- Sand - Wall graded masonry sand.
- Line - A. S. T. M. C-207
- Block - A. S. T. M. C-145, C-129, C-90, Grade S, Type 1, to be 8" x 8" x 16" nominal, or as noted on Drawings. a. Scored Block 4" or 8" thick with center scored to provide 8" x 8" appearance.

H. Concrete Masonry Units Continue

- Wall Reinforcement - Duro-Wall, 16' D.C. to suit wall thickness.

I. Carpentry

- Blocking, furring, studding - No. 2 or better Long Leaf Pine, Southern Pine, Coastal Douglas Fir.
- Wall Insulation
 - Wood/Metal Studs
 - Exterior Walls - 5.5' Fiberglass (R-23) Batts Kaft Faced, See Metal Building Specifications for Wall Insulation.
 - Interior Walls - 3.5' Fiberglass Sound Batts
 - Masonry - Tri-polymer Foam as Manufactured by C. P. Chemical Co. Inc. or equal.
- Gypsum Board
 - 5/8" or 1/2" tapered edges, annular or ring drive nails, three (3) coat finishing process.
 - 5/8" and / or 1/2" tapered edges proprietary Type X, Type S and Type G screws, (3) coat finishing process.
 - 5/8" moisture resistant tapered edges, annular or ring drive nails, three (3) coat finishing process.
- Treated Wood
 - Preservative treatment - wood pressure treated for protection from fungi, termites, dry rot, and other wood destroying organisms with a wood preservative and kiln dried.
 - Fire treatment - wood pressure treated for fire to provide flame spread and master contributed and smoke development classification of 25.
- Metal Studs & Furring
 - 3 1/2" x 3/16" Lip x 20 Gauge Galv. meeting ASTM C 645 Interior Use where indicated.
 - Contractor Optional Structural 3 1/2" x 14 Gauge (C. 0713), 350S162-68 designation, Galv. meeting ASTM C 645 Interior Use in-lieu-of 2 x 4 wood studs 16" D.C.
 - 3/4" or 1 1/2" Hat Shape x 20 Gauge Galv. channels meeting ASTM C 645 Interior Use where indicated.
- Wood Cabinets
 - Preservative Red Oak Veneer Wood Cabinetry as Directed by Owner Cabinetry color, type and style as selected by Owner. Cabinetry Hardware
 - Hinges-Wall, or Base Cabinets
 - Catches-Eppo 5541
 - Drawer Slides- Standard KV 1300 File drawers KV 8500
 - Shelf Standards-Recessed KV 255 four/unit with Shelf Clips KV 256 (4) four/shelf
 - Holes-Plastic Grommets to suite size & blend w/counter top color
 - Case Doors shall be concealed self closing. (2) two under 44"
 - Pulls-Eppo MC 402-4 x DB. (1) one under 27" wide (2) two 27" and wider
 - Locks-all Hinge doors & drawers tumblers, keyed alike & master keyed to building keying system Exposed surfaces US4 finish

J. Flashing

- Concealed Lintel - 20 Mil PVC.
- Exposed Surfaces - 20 Ga. Metal finished to Match adjacent surface or as noted

K. Roofing

- Metal Roofing shall be 24 gauge galvanized steel prefinished matching 'Metal Building's Standard Metal Roofing Profile/Panel as manufactured by 'UNA-CLAD' or equal.

L. Caulking

- Tremco Dymec in color to match finish of Concrete Block, doors, metals, etc.

M. Toilet Accessories

- Owner Selected for all Toilet Room Accessories per Agreed Allowance (16 Gauge, 304 Stainless Steel).

N. Flooring

- Wood Floor as Selected by Owner per Agreed Allowances a. Wood Base Selected by Owner per Agreed Allowance.
- V. C. T. Floor - 1/8" Resilient Flooring (V. C. T.) 12" x 12" to match Pattern, Color, and Texture by Mannington Essentials.
- Base - 1/8" cast or molded rubber or vinyl cove/straight by Armstrong, Roppe, Kentile, R. C. A., Johnsonite, and R. C. Musson
- Carpet - American made Class I O-26 meeting DDC- FF 'Pill Test', 18" x 36", 19.685' x 19.685', 24' x 24', and/or 36' x 36' carpet squares style, color, pattern, and size as selected by Owner supplied and Manufactured by 'Shaw Group/Industries' or equal by 'Interface', 'Lees', Bentley Prince Street and/or approved Equal. Note Selected by owner for Carpet Locations per Agreed Allowance.

D. Flooring Alternate/Owner Option

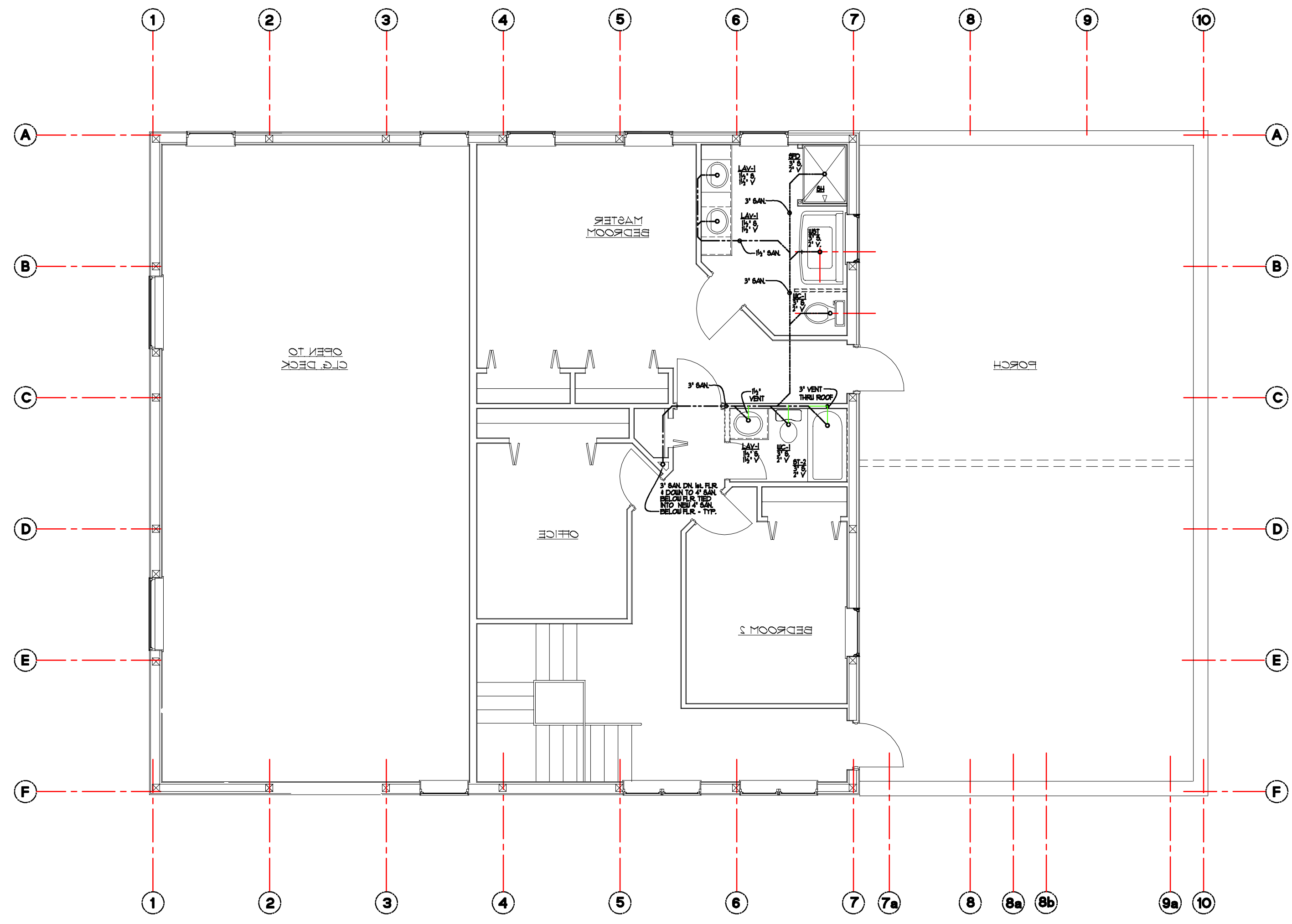
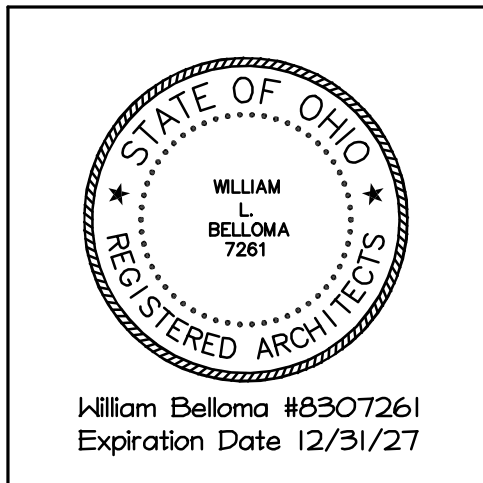
- Ceramic Moscia & Ceramic Tile Class II 26-75 meeting DDC-FF
 - Floor - Ceramic Moscia, 2' x 2' x 1/4", thin set - ANSI A136.1, Installation ANSI A108.2. (Optional)
 - Base - Ceramic Moscia, 2' x 2' x 1/4" thin set - ANSI A136.1, Installation ANSI A108-4. (Optional)
 - Floor - Premium Ceramic/Porcelain, 18' x 18' x 1/4", by 'Dalittle' or equal, indicated/noted on drawings, as selected by Owner/Architect, thin set - ANSI A136.1, Installation ANSI A108.2 and TCA's 'Handbook for Ceramic Tile Installation.
 - Floor - Premium Ceramic/Porcelain, (6' x 6') or (8' x 8') x 1/4", by 'Dalittle' or equal, indicated/ noted on drawings, as selected by Owner/Architect, thin set - ANSI A136.1, Installation ANSI A108.2 and TCA's 'Handbook for Ceramic Tile Installation.
 - Base - Ceramic Moscia, 6' high x 1/4" thin set - ANSI A136.1, Installation ANSI A108-4 and TCA's 'Handbook for Ceramic Tile Installation.
 - Wall - Ceramic Tile, 4 1/4" x 4 1/4" x 5/16", thin set - ANSI A136.1, Installation ANSI A108-4 and TCA's 'Handbook for Ceramic Tile Installation.

P. Fire Extinguishers and Cabinets D'tional

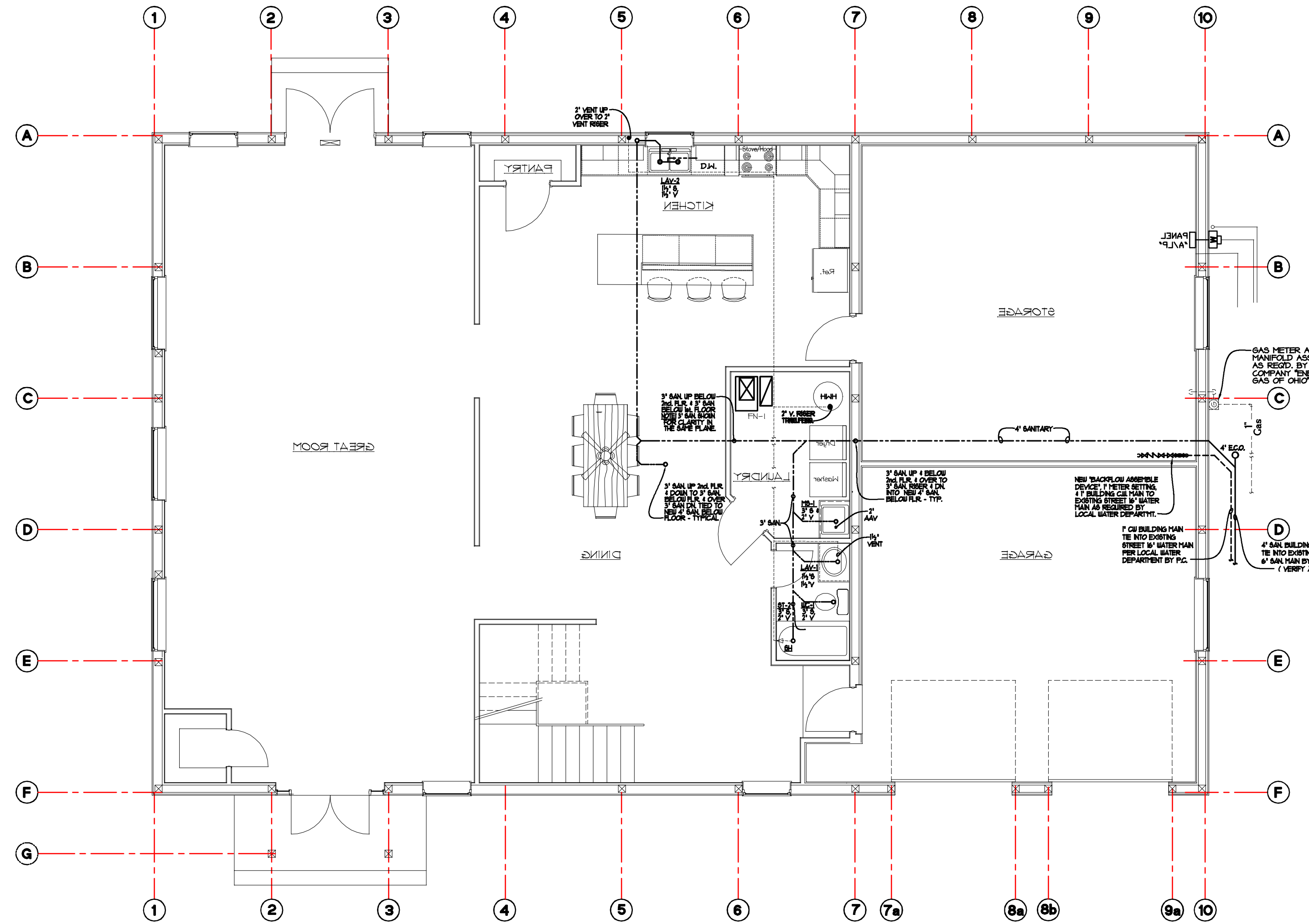
- Provide Fire Rated recessed Cabinet located as indicated on drawings in Existing C. M. U. or Gypsum Board Partition with Standard solid face design and Diecut vertical black lettering saying Fire Extinguisher.
- Provide with cabinet Multipurpose Dry Chemical - 4A-60CB 10-Lb Fire Extinguisher U.L. Rated by 'JL Industries'

R. Painting

- Exterior Work
 - Lintels, miscellaneous steel items before erection. Clean, touch-up chromate primer on all damaged or unpainted areas and apply two coats S-W Industrial Enamel HS, B542400 Series (2 different colors).
 - Metal doors, frames, flashing, etc. S-W Pro Industrial Pro-Cryl Primer, B66-310 Series S-W Industrial Enamel HS, B542400 Series S-W Industrial Enamel HS, B542400 Series
 - Wood
 - S-W A-100 Exterior Alkyd Wood Primer S-W Waterbased Industrial Enamel Gloss, B53-300 Series S-W Waterbased Industrial Enamel Gloss, B53-300 Series
 - S-W Penetrating Rustic Stain and Wood Preservative S-W Penetrating Rustic Stain and Wood Preservative S-W Wood Classics Waterborne Polyurethane Varnish
 - Concrete Block Thoroseal/Tanoseal System S-W A-100 Exterior Alkyd Primer S-W Waterbased Industrial Enamel Gloss, B53-300 Series S-W Waterbased Industrial Enamel Gloss, B53-300 Series
- Interior Work
 - Ferrous Metal, Shop Primed- Alkyd Resin Finish S-W Pro Industrial Pro-Cryl Primer, B66-310 Series S-W ProMar 200 Interior Waterbased Acrylic-Alkyd Semi Gloss, B34W8251 Series S-W ProMar 200 Interior Waterbased Acrylic-Alkyd Semi Gloss, B34W8251 Series (Hot Surfaces) - Two (2) coats heat resistant paint
 - Gypsum Drywall Systems Primer: Lusterless (Flat) Emulsion Finish Two coats S-W ProMar 200 Latex Wall Primer, B28W200 Series S-W ProMar 200 Latex Wall Primer, B28W200 Series Finish Coat: Interior Flat Latex-Based Paint S-W ProMar 200 Latex Flat, B30W200 Series
 - Concrete Masonry Units S-W ProMar Heavy-Duty Block Filler, B42W46 S-W ProMar 200 Latex Wall Primer, B28W200 Series S-W ProMar 200 Interior Waterbased Acrylic-Alkyd Semi Gloss, B34W8251 Series S-W ProMar 200 Interior Waterbased Acrylic-Alkyd Semi Gloss, B34W8251 Series
 - Wood S-W Minwax 250 Stain S-W Wood Classics Sanding Sealer (Quarts Only) S-W Sher-Wood Fast-Dry Filler S-W Wood Classics Waterborne Polyurethane Varnish Gloss S-W Wood Classics Waterborne Polyurethane Varnish Gloss
 - Pipes, Insulated Covered Two coats with added Fungicidal agent to render fabric mildewproof. S-W ProMar 200 Latex Flat, B30W200 Series
- Epoxy Paint Finish All walls and ceiling ect. as schedule or noted shall be provided with Two (2) coat epoxy coating equal to 'Sherwin Williams' Water Based Catalyzed Epoxy, B70/B60V25 Series with (4) mils dry film per each coat.
- Specialty Paints NIC
 - WaterTite - Mold & Mildew-Proof Waterproofing Paint by 'Zinsser' on existing 'East & South Walls by 'Owner's Contractor.' prior to any work. Any renovation or damage to these walls during construction must have this system repaired according to manufacturer requirements before new surfaces are applied.
 - Pre-Prime 167 & Bar-Rust 235 - (2) Two Component epoxy penetrating sealer and coating by 'ICI DEWUE CDATING' on all existing 1



2nd. Floor Sanitary Plumbing Plan
 3/16" = 1'-0" NORTH



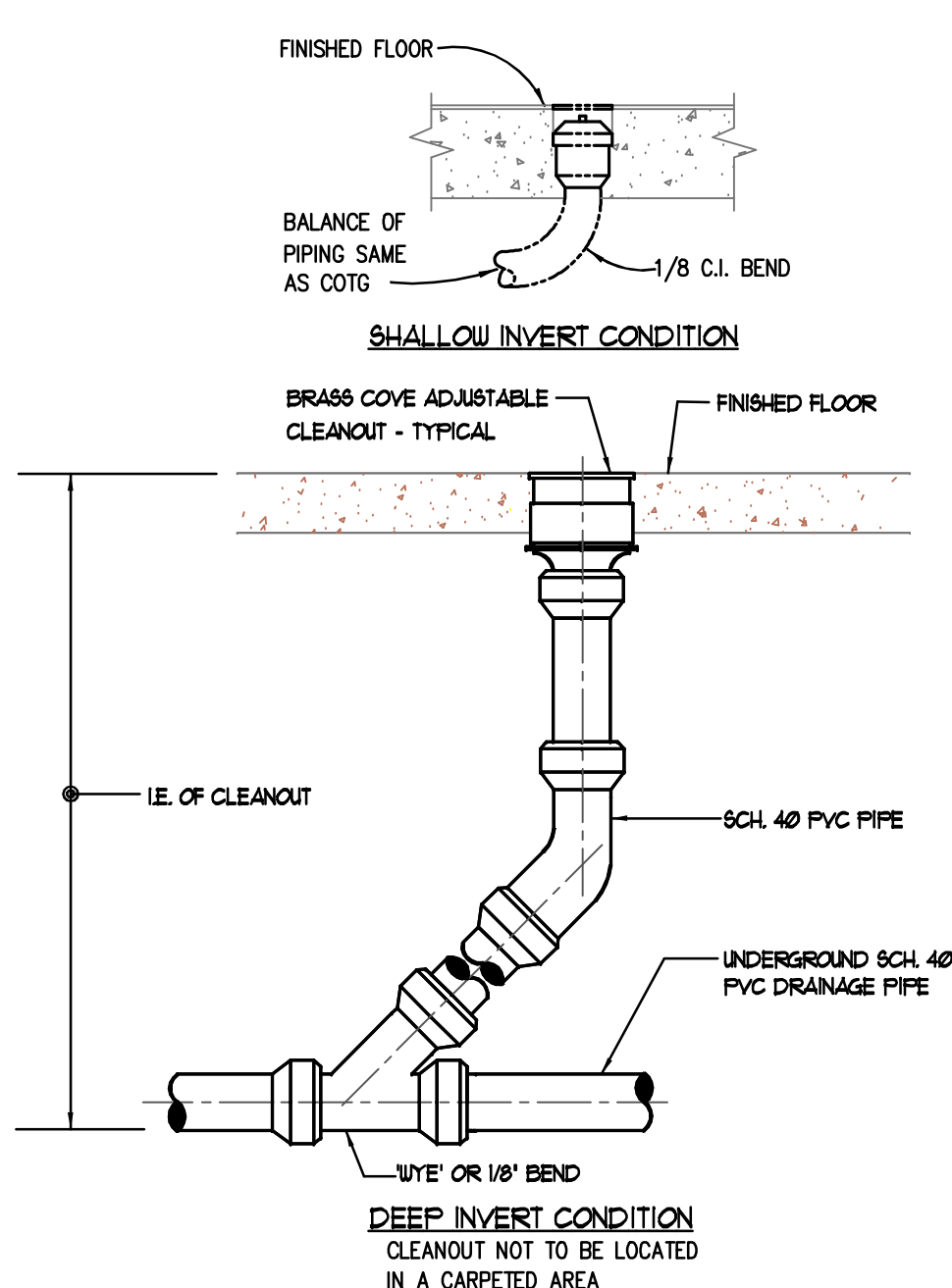
1st. Floor Sanitary Plumbing Plan
 3/16" = 1'-0" NORTH

Plumbing General Notes:

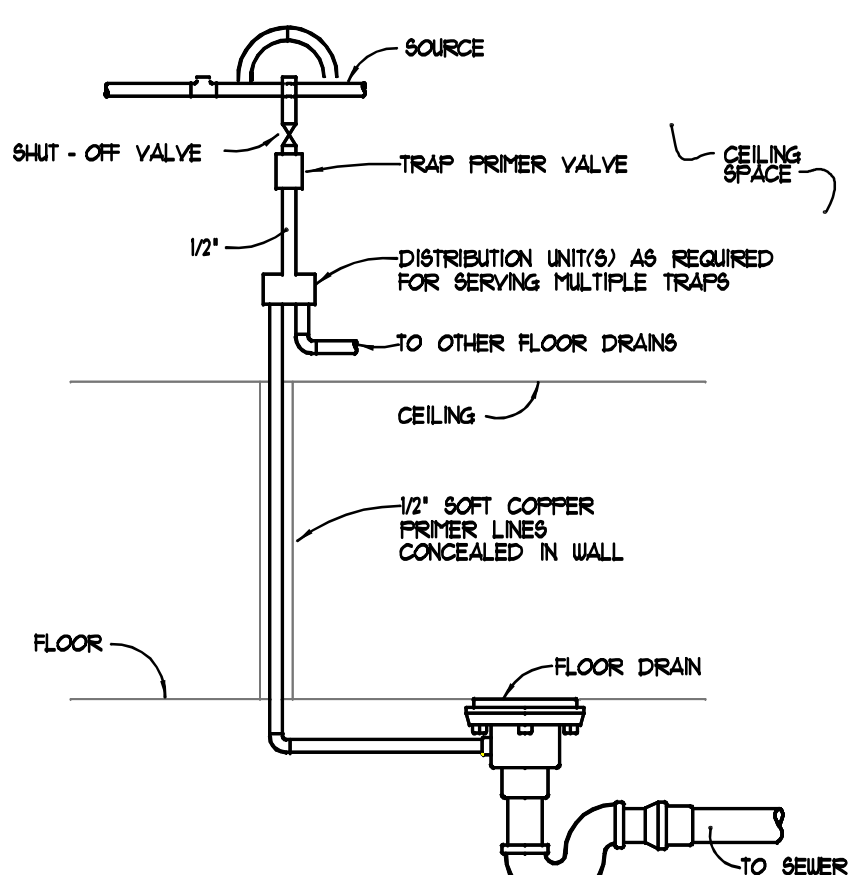
- ALL PLUMBING LINES SHOWN IN THIS DRAWING ARE SCHEMATIC REPRESENTATION OF THE REQUIRED NEW/RENOVATION WORK. THE FINAL LOCATION AND ARRANGEMENT MAY VARY DUE TO EXISTING FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION. FIELD VERIFY EXACT LOCATIONS, INVERTS, ETC. OF ALL EXISTING UTILITY SERVICES AND CONNECTIONS. MODIFY DESIGN AS REQUIRED TO MATCH ACTUAL FIELD CONDITIONS.
- THIS CONTRACTOR SHALL INCLUDE ALL CONNECTIONS (WATER, SANITARY, VENT, GAS, ETC.) REQUIRED BY ALL FIXTURES AND EQUIPMENT FOR THE PROJECT WHETHER SUPPLIED BY THIS CONTRACTOR, OTHER SUBTRADES OR THE OWNER. ALL ROUGH-IN SHALL BE AS REQUIRED BY THE SPECIFIC EQUIPMENT REQUIREMENTS. OBTAIN ALL ROUGH-IN AND CONNECTION INFORMATION FROM THE RESPECTIVE FIXTURE AND EQUIPMENT SUPPLIERS. ALL WATER CONNECTIONS TO EQUIPMENT AND FIXTURES SHALL HAVE STOPS OR VALVES. EACH EQUIPMENT GAS CONNECTION SHALL HAVE AN INDEPENDENT SHUTOFF VALVE. PROVIDE ALL REQUIRED TRAPS AND VENT PIPING FOR FIXTURES AND EQUIPMENT DIRECTLY CONNECTED TO THE SANITARY SYSTEM.
- COORDINATE LOCATION AND ELEVATION OF PLUMBING WITH THE LOCATION OF DUCTWORK, LIGHTING AND STRUCTURAL MEMBERS.
- ALL PLUMBING SHALL BE CONCEALED UNLESS NOTED TO BE EXPOSED. PLUMBING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND WITHIN THE JOIST SPACE WHEREVER POSSIBLE.
- ALL NEW SANITARY, COLD WATER, AND HOT WATER LINES SHALL BE INSULATED IN ACCORDANCE WITH OHIO PLUMBING CODE AND NEW FIXTURES MANUFACTURER REQUIREMENTS.
- PLUMBING CONTRACTOR SHALL SUPPLY A SAFE WASTE DRAIN PAN AND RELIEF VALVE TO OUTSIDE WITH EACH NEW ELECTRICAL OR GAS FIRED HOT WATER TANK.
- ALL DEMOLITION RELATED/REQUIRED TO BE PERFORMED SHALL BE DONE BY EACH RESPECTIVE PRIME CONTRACTOR AND NOT LIMITED TO GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, AND ELECTRICAL CONTRACTOR WHETHER INDICATED OR NOT WITH ALL DEBRIS TO BE BY THE GENERAL CONTRACTOR.
- PIPING OPENINGS THROUGH WALLS, FLOORS, AND CEILINGS UNDER 4"ø SHALL BE CORE DRILLED BY THE RESPECTIVE TRADE CONTRACTOR. PIPE OPENINGS THROUGH WALLS, FLOORS, AND CEILINGS OVER 4"ø 4"ø SHALL BE CORE DRILLED AND/OR OTHERWISE SAW CUT BY G.C.
- THIS CONTRACT SHALL INCLUDE ALL LABOR, MATERIAL, AND MISCELLANEOUS EXPENSES REQUIRED FOR THE COMPLETE PLUMBING DEMOLITION THAT MAY BE NECESSARY IN THE RENOVATION OF THE STRUCTURE. THE DEMOLITION SHALL CONSIST OF THE COMPLETE REMOVAL (PROPERLY DISPOSED OFF SITE UNLESS OTHERWISE NOTED AND/OR DIRECTED BY OWNER) OF ALL PLUMBING EQUIPMENT, PIPING, MATERIALS, ETC. WITHIN THE BUILDING AREA. ALL EXISTING SERVICES TO BE RENOVATED AS INDICATED ON SITE AND PLUMBING DRAWINGS IN THEIR ENTIRETY. COORDINATE ALL DEMOLITION WITH THE ARCHITECTURAL DOCUMENTS, THE ARCHITECT/OWNER, AND THE OWNER GENERAL REQUIREMENTS.
- CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS, AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.
- PLUMBING MATERIALS SHALL BE TYPE 1" COPPER FOR INT. WATER LINES, SCH. 40 PVC FOR SANITARY LINES, AND SCH. 40 BLACK STEEL WELDED 3" AND ABOVE FOR GAS LINES & THREADED FOR GAS LINES BELOW 3".

Plumbing Fixtures Schedule

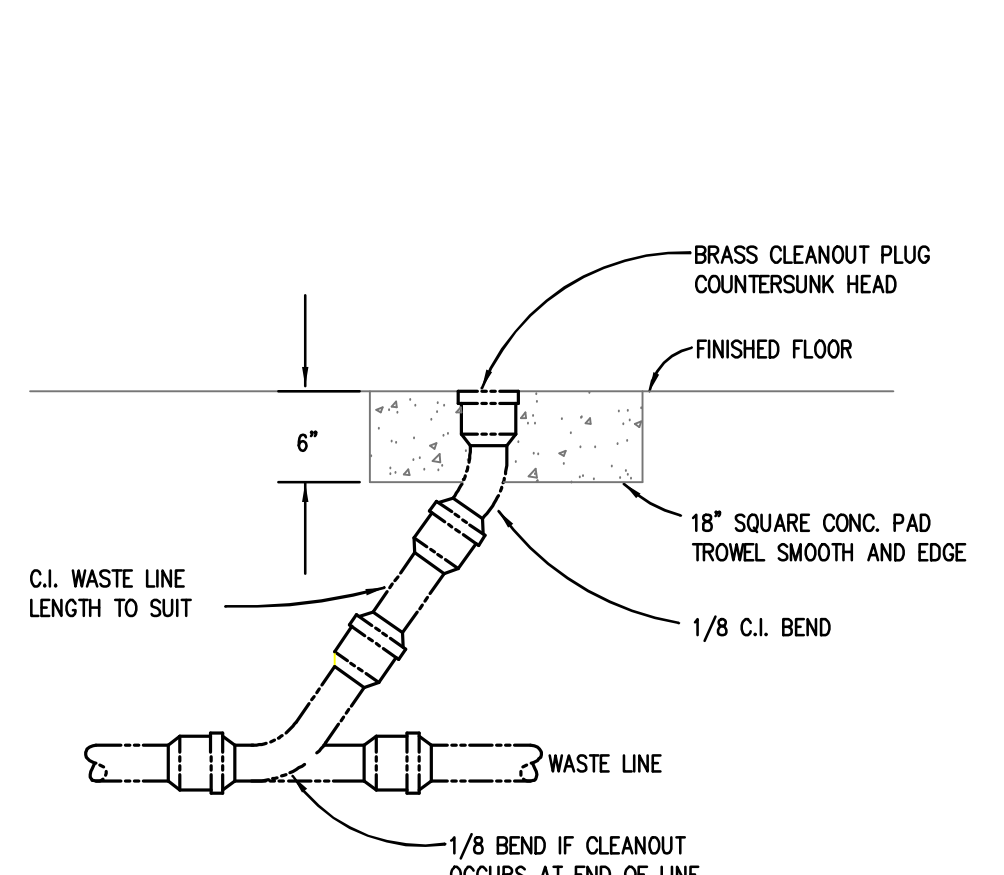
LAV-1	AMERICAN STANDARD 'QUALITY' # 0416 028 SELF-RIMMING COUNTERTOP LAVATORY WITH 4" FAUCET CENTERS FAUCET SHALL BE MOEN 'SANI-STREAM' MODEL #400 CHROME, 4" CENTERS WITH 4" SUPPLIES AND LEVER STYLE HANDLE. FURNISH CHROME STOPS, SUPPLIES AND 1/4" OFFSET LAVATORY DRAIN WITH STAINLESS STEEL GRID AND 1/4" CHROME P-T-RAP. PROTECT TRAP & SUPPLIES WITH TRAP WRAP KIT 500R BY BROCCAR OR EQUAL.
LAV-2	KITCHEN SINK ELKAY 'LUBERTONE' # LR3372 (OR EQUAL) 33" x 22" DOUBLE BOULTYPE 3/4" STAINLESS STEEL, 8" DEEP WITH TWO 3/4" DRAIN OPENINGS. FURNISH WITH 1/2" x 3/8" STRAINER AND TAILPIECE ASSEMBLY. FAUCET SHALL BE MOEN 'LEGEND' MODEL #122 WITH SPRAY ATTACHMENT AND LEVER HANDLE. RIGHT HAND BOUL OF SINK SHALL BE PROVIDED WITH PROVISIONS FOR AN IN-SINK-GRATOR OR MODEL #33 (OR EQUAL) 1/2" HORSEPOWER GARBAGE DISPOSER. FUTURE DISPOSAL SHALL BE FURNISHED WITH ALL STANDARD FEATURES INCLUDING 3 YEAR WARRANTY AND POWER CORD.
MIS-1	MUSTEE & SON MODEL DURASTONE LOC ONE PIECE MOLDED FIBERGLASS SELF-RIMMING COUNTERTOP UTILITY SINK 22" x 25" x 19 1/4" WHITE FINISH. FAUCET SHALL BE MOEN MODEL #230 WITH TOP SUPPLIES ON 8" CENTERS. VACUUM BREAKER SPOT WALL BRACE, A POLISHED CHROME FINISH. FURNISH SINK WITH ADDITIONAL PRODUCTS OR ACCESSORIES REQUIRED TO CONNECT TO THE BUILDING PLUMBING SYSTEM.
WC-1	ADA COMPLIANT TOILET AMERICAN STANDARD (OR EQUAL) 'CHAMPION 4 ELONGATED MODEL # 2002014' TANK TYPE 'CHAMPION 4 FLUSHING SYSTEM' FLOOR MOUNTED WATER CLOSET, 17" HIGH WITH SEAT, 16 GPF. FURNISH COMPLETE WITH TANK FLUSH COMPONENTS, FLOOR BOLTS WITH CAPS, WAX SEAL, ALL ASSOCIATED TRIM, FITTINGS AND HARDWARE. SEAT SHALL BE WHITE SOLID PLASTIC WITH OPEN FRONT LESS COVER. PROVIDE COMPLETE WITH CHROME SUPPLY AND SERVICE STOP.
WBT	'AMERICAN STANDARD' FREE STANDING ACRYLIC SOAKING TUB 60" x 36 1/4" x 21 1/2" MODEL #711V002 (OR EQUAL) WITH INTEGRAL CENTER DRAIN, WIDE DECK, DRAIN OVERFLOW KIT MODEL #802000002 (OR EQUAL). DECK MOUNTED FAUCET TOWNSEND MODEL #1333501
ST-2	AQUATIC ONE PIECE TUB/SHOWER 60" x 32" x 12" MODEL #6029GL-UHHD OR EQUAL WITH HAND HELD SHOWER ASSEMBLY ATTACHED TO SHOWER HEAD/VALVE ASSEMBLY (NOTED SH). OWNERS OPTION HDPE FOLD UP SEAT, 3/4" STAINLESS STEEL 18 GA. HORIZ. GRAB BARS 30" x 1 1/2" x 24" x 1 1/2" AND 3/4" x 31" 18 GA. VERTICAL GRAB BAR 24" x 1 1/2"
SFD	SHOWER FLOOR DRAIN 'SIOUX CHIEF' # 864 SERIES' (OR EQUAL) WITH ABS GRATE SEE PLANS AND RISER DIAGRAMS FOR SIZES
HWH	GAS FIRED WATER HEATER EQUAL TO 'STATE PROLINE' ATMOSPHERIC VENT ENERGY SAVER WATER HEATER' MODEL #36X-40-ARB1, 40 GALLON TANK WITH 42 GPH RECOVERY AT 90° FAHRENHEIT TEMPERATURE RISE, 150 PSI MAX. WATER PRESSURE. WATER HEATER SHALL HAVE A TEN (10) YEAR TANK AND SIX (6) YEAR PARTS AND SERVICES WARRANTY AND CAST-IRON COVER. SEE PLANS AND RISER DIAGRAMS FOR SIZES.
H2	JAY R 9TH MODEL # 86090T OR EQUAL FREEZELESS WALL HYDRANTS WITH INTEGRAL VACUUM BREAKER. CONTRACTOR TO ORDER PROPER LENGTH HYDRANT REQUIRED BASED ON WALL THICKNESS.
CO	WALL OR FLOOR CLEANOUT 'SIOUX CHIEF' # 851 SERIES' (OR EQUAL) ADJUSTABLE CLEANOUT WITH NO-HUB CONNECTION AND CAST-IRON COVER. SEE PLANS AND RISER DIAGRAMS FOR SIZES.
WHA	WATER HAMMER ARRESTERS SHALL BE WATTS SERIES 15 OR EQUAL. PROVIDE A BALL VALVE AND DIELECTRIC UNION WHERE APPLICABLE FOR DISMANTLING PIPING MATERIALS. PROVIDE ACCESS PANELS IN WALL AND/OR CEILING FOR SERVICE. FINAL TYPE, LOCATION AND CONFIGURATION OF WATERHAMMER DEVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
ED	FLOOR DRAIN 'SIOUX CHIEF' # 864 SERIES' (OR EQUAL) WITH DUCTIRON GRATE. SEE PLANS AND SANITARY ISOMETRIC FOR SIZES.
AAV	AIR ADMITTANCE VENT (BY 'WEBER' DATEY'S (OR EQUAL) SURE VENT SIZED PER FIXTURES ASSEMBLY.



Floor Cleanout Detail
 Scale None



Trap Primer Detail
 Scale None



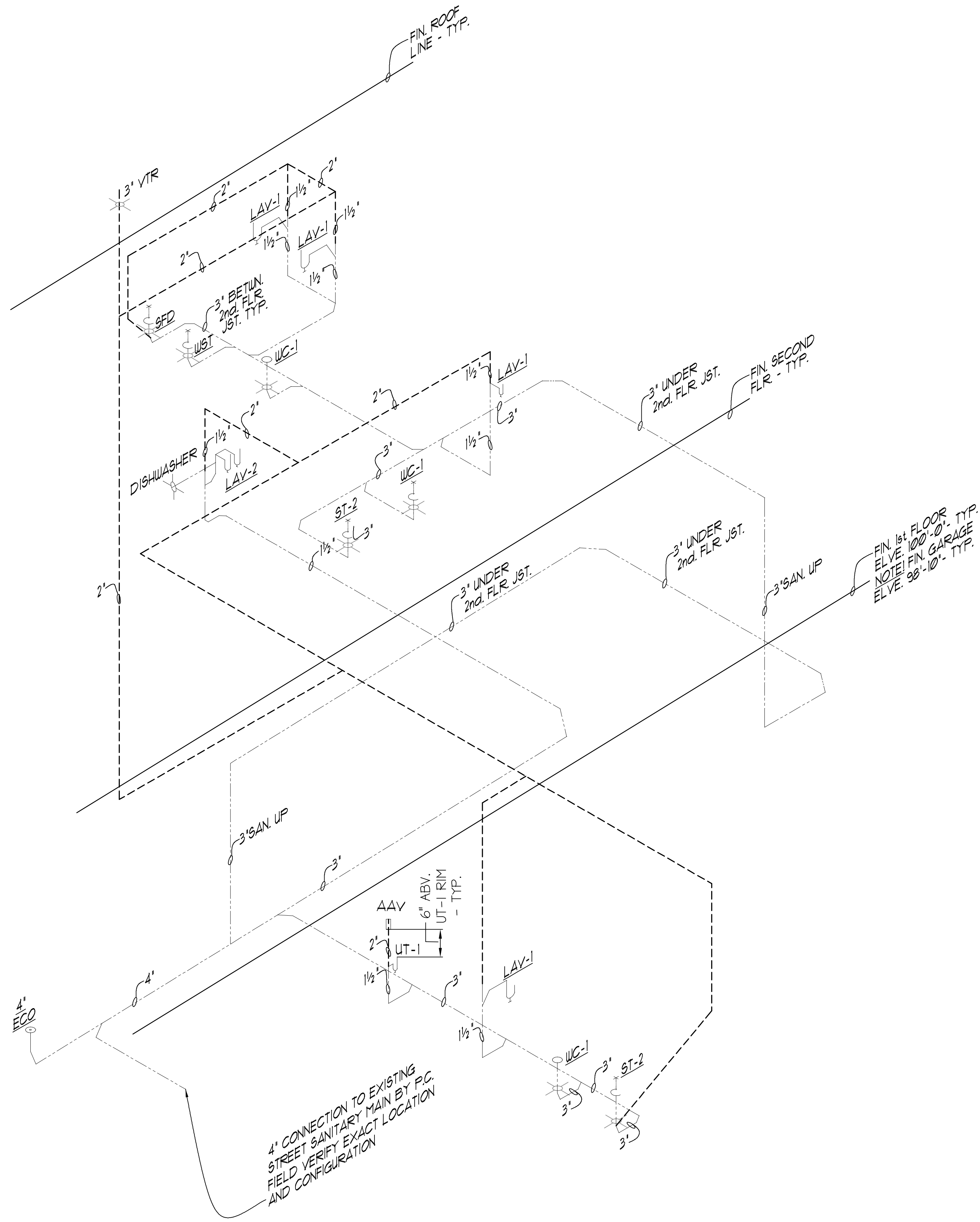
Cleanout to Grade (ECO)
 Scale None

Site Utility Notes:

- LOCATION OF EXISTING UTILITIES ARE APPROX. VERIFY EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES.
- SITE WATER LINES, FITTINGS, AND DEVICES SHALL COMPLY WITH F.M., N.F.P.A., O.B.C., AND LOCAL REQUIREMENTS. PIPING SHALL BE DUCTILE IRON PIPE, CLASS 52, CEMENT LINED, WITH PUSH-ON JOINTS OR C900 PVC PIPE AND INSTALLED WITH 4"-6" MIN. COVER.
- ALL FIRE LINES SHALL BE TESTED IN ACCORDANCE WITH F.M., O.B.C., N.F.P.A. AND LOCAL REQUIREMENTS.
- WATER MAINS SHALL BE INSTALLED WITH AT LEAST A 10'-0" HORIZONTAL AND 18" VERTICAL SEPARATION FROM ANY SANITARY SEWERS AND 4'-0" HORIZONTAL AND 18" VERTICAL SEPARATION FROM ANY STORM SEWER OR INLET LEAD WHERE THEY CROSS.
- WATER LINE SHALL MAINTAIN A 3'-0" MIN. HORIZONTAL & 12" VERTICAL CLEARANCE FROM EDGE OF WATER LINE TO EDGE OF ELECTRICAL AND/OR GAS SERVICES.
- SANITARY LINES SHALL BE SCH. 40 OR SDR-35 PVC @ 1/8"/FT. SLOPE.
- UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED IN MAX. 10" LIFTS. #8 LIMESTONE SHALL BE USED AS BACKFILL IN PAVEMENT AREAS AS NOTED. OTHER AREAS MAY BE BACKFILLED & COMPACTED WITH EARTHEN MATERIALS.
- SITE STORM PIPING SHALL BE SDR-35 PVC OR CORRUGATED POLYETHYLENE STORM SEWER PIPE WITH SMOOTH INTERIOR AS MANUFACTURED BY HANCOR, INC. OR ADVANCED DRAINAGE SYSTEM INC. (MIN. 1/2% SLOPE)

DWG. NO. **MEP-1**
 DATE **March 31, 2026**
 REVISION _____

Belloma Consulting
 8322 Canal Blvd. N.W. High St. 4400 44100-9000
 Copyright © 2008 WLS Architect.
 This drawing or any part thereof shall not be reproduced or modified without the consent of WLS Architect.



Sanitary Isometric
NOT TO SCALE

Plumbing Fixtures Schedule

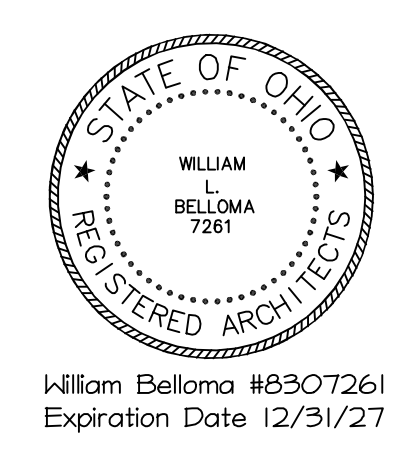
LAV-1	AMERICAN STANDARD 'AQUALYN' # 0476208 SELF-RIMMING COUNTERTOP LAVATORY WITH 4' FAUCET CENTERS FAUCET SHALL BE MOEN 'SANI-STREAM' MODEL 8400, CHROME, 4' CENTERSET WITH 4' SUPPLIES AND LEVER STYLE HANDLE. FURNISH CHROME STOPS, SUPPLIES AND A 1/4" OFFSET LAVATORY DRAIN WITH STAINLESS STEEL GRID AND 1/4" CHROME P-TRAP. PROTECT TRAP & SUPPLIES WITH TRAP WRAP KIT 500R BY BROCCAR OR EQUAL.	ST-2	AQUATIC, ONE PIECE TUB-SHOOWER 60" x 32" x 72" MODEL #60256L-104HD OR EQUAL WITH HAND HELD SHOWER ASSEMBLY ATTACHED TO SHOWER HEAD/VALVE ASSEMBLY (NOTED SH). OWNERS OPTION HDPE FOLD UP SEAT, 3/4" STAINLESS STEEL 18 GA. HORIZ. GRAB BARS 30" x 1 1/2" x 1 1/2" AND 3/4" S. STL. 18 GA. VERTICAL GRAB BAR 24" x 1 1/2"
LAV-2	KITCHEN SINK ELKAY 'LUSTERTONE' # LR3322 (OR EQUAL), 33" x 22" DOUBLE BOWL TYPE 3/4" STAINLESS STEEL, 8" DEEP WITH TWO 3/8" DRAIN OPENINGS. FURNISH WITH LK-35 STRAINER AND TALLPIECE ASSEMBLY. FAUCET SHALL BE MOEN 'LEGEND' MODEL 8722 WITH SPRAY ATTACHMENT AND LEVER HANDLE. RIGHT HAND BOWL OF SINK SHALL BE PROVIDED WITH PROVISIONS FOR AN IN-SINK-ERATOR MODEL 333 (OR EQUAL). 1/2" HORSEPOWER GARAGE DISPOSER. FUTURE DISPOSAL SHALL BE FURNISHED WITH ALL STANDARD FEATURES INCLUDING 3 YEAR WARRANTY AND POWER CORD.	8FD	SHOWER FLOOR DRAIN 'SILOX CHIEF' # 864 SERIES' (OR EQUAL) WITH ABS GRATE SEE FLANS AND RISER DIAGRAMS FOR SIZES
MS-1	MUSTE # 50N MODEL DURASTONE 10C, ONE PIECE MOLDED FIBERGLASS SELF-RIMMING COUNTERTOP UTILITY SINK 22" x 28" x 15 1/4" WHITE FINISH. FAUCET SHALL BE MOEN MODEL 19330 WITH TOP SUPPLIES ON 8' CENTERS, VACUUM BREAKER SPOUT, WALL BRACE, A POLISHED CHROME FINISH. FURNISH SINK WITH ADDITIONAL PRODUCTS OR ACCESSORIES REQUIRED TO CONNECT TO THE BUILDING PLUMBING SYSTEM.	H4H	GAS FIRED WATER HEATER EQUAL TO 'STATE PROLINE' ATMOSPHERIC VENT ENERGY SAVER WATER HEATER MODEL #55X-40-BRST, 40 GALLON TANK WITH 42 GPH RECOVERY AT 90° FAHRENHEIT TEMPERATURE RISE, 150 PSI MAX. WATER PRESSURE. WATER HEATER SHALL HAVE A TEN (10) YEAR TANK AND SIX (6) YEAR PARTS AND SERVICES WARRANTY.
WC-1	ADA COMPLIANT TOILET AMERICAN STANDARD (OR EQUAL) 'CHAMPION 4 ELONGATED MODEL # 2002104' TANK TYPE 'CHAMPION 4 FLUSHING SYSTEM' FLOOR MOUNTED WATER CLOSET, 11" HIGH WITH SEAT, 16 GPF. FURNISH COMPLETE WITH TANK FLUSH COMPONENTS, FLOOR BOLTS WITH CAPS, WAX SEAL, ALL ASSOCIATED TRIM, FITTINGS AND HARDWARE. SEAT SHALL BE WHITE SOLID PLASTIC WITH OPEN FRONT LESS COVER. PROVIDE COMPLETE WITH CHROME SUPPLY AND SERVICE STOP.	H8B	JAY R SMITH MODEL # 56090T OR EQUAL FREEZELESS WALL HYDRANTS WITH INTEGRAL VACUUM BREAKER. CONTRACTOR TO ORDER PROPER LENGTH HYDRANT REQUIRED BASED ON WALL THICKNESS.
WST	'AMERICAN STANDARD' FREE STANDING ACRYLIC SOAKING TUB 60" x 36 1/2" x 21 1/2". MODEL #711V901 (OR EQUAL) WITH INTEGRAL CENTER DRAIN, WIDE DECK, DRAIN OVERFLOW KIT MODEL #5812000002 (OR EQUAL), DECK MOUNTED FAUCET TOWNSEND MODEL #1353301	CG2	WALL OR FLOOR CLEANOUT 'SILOX CHIEF' # 861 SERIES' (OR EQUAL) ADJUSTABLE CLEANOUT WITH NO-HUB CONNECTION AND CAST-IRON COVER. SEE FLANS AND RISER DIAGRAMS FOR SIZES.
		W4A	WATER HAMMER ARRESTERS SHALL BE WATTS SERIES B OR EQUAL. PROVIDE A BALL VALVE AND DIELECTRIC UNION WHERE APPLICABLE FOR DISMILAR PIPING MATERIALS. PROVIDE ACCESS PANELS IN WALL AND/OR CEILING FOR SERVICE. FINAL TYPE, LOCATION AND CONFIGURATION OF WATER HAMMER DEVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
		ED2	FLOOR DRAIN 'SILOX CHIEF' # 864 SERIES' (OR EQUAL) WITH DUCTIRON GRATE. SEE FLANS AND RISER DIAGRAMS FOR SIZES.
		AAV	AIR ADMITTANCE VENT BY PLUMBER, GATEY'S (OR EQUAL) SURE VENT SIZED PER FIXTURES ASSEMBLY.

Plumbing General Notes:

- ALL PLUMBING LINES SHOWN THIS DRAWING ARE SCHEMATIC REPRESENTATION OF THE REQUIRED NEW/RENOVATION WORK. THE FINAL LOCATION AND ARRANGEMENT MAY VARY DUE TO EXISTING FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION. FIELD VERIFY EXACT LOCATIONS, INVERTS, ETC., OF ALL EXISTING UTILITY SERVICES AND CONNECTIONS, MODIFY DESIGN AS REQUIRED TO MATCH ACTUAL FIELD CONDITIONS.
- THIS CONTRACTOR SHALL INCLUDE ALL CONNECTIONS (WATER, SANITARY, VENT, ETC.) REQUIRED BY ALL FIXTURES AND EQUIPMENT FOR THE PROJECT WHETHER SUPPLIED BY THIS CONTRACTOR, OTHER SUBTRADES OR THE OWNER. ALL ROUGH-IN SHALL BE AS REQUIRED BY THE SPECIFIC EQUIPMENT REQUIREMENTS. OBTAIN ALL ROUGH-IN AND CONNECTION INFORMATION FROM THE MANUFACTURER AND EQUIPMENT SUPPLIERS. ALL WATER CONNECTIONS TO EQUIPMENT AND FIXTURES SHALL HAVE STOPS OR VALVES. EACH EQUIPMENT GAS CONNECTION SHALL HAVE AN INDEPENDENT SHUTOFF VALVE. PROVIDE ALL REQUIRED TRAPS AND VENT TRIPING FOR FIXTURES AND EQUIPMENT DIRECTLY CONNECTED TO THE SANITARY SYSTEM.
- COORDINATE LOCATION AND ELEVATION OF PLUMBING WITH THE LOCATION OF DUCTWORK, LIGHTING AND STRUCTURAL MEMBERS.
- ALL PLUMBING SHALL BE CONCEALED UNLESS NOTED TO BE EXPOSED. PLUMBING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND WITHIN THE JOIST SPACE WHEREVER POSSIBLE.
- ALL NEW SANITARY, COLD WATER, AND HOT WATER LINES SHALL BE INSULATED IN ACCORDANCE WITH OHIO PLUMBING CODE AND NEW FIXTURES MANUFACTURER REQUIREMENTS.
- PLUMBING CONTRACTOR SHALL SUPPLY A SAFE WASTE DRAIN PAN AND RELIEF VALVE TO OUTSIDE WITH EACH NEW ELECTRIC OR GAS FIRED HOT WATER TANK.
- ALL DEMOLITION RELATED/REQUIRED TO BE PERFORMED SHALL BE BY THE RESPECTIVE PRIME CONTRACTOR AND NOT LIMITED TO GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, AND ELECTRICAL CONTRACTOR WHETHER INDICATED OR NOT WITH ALL DEBRIS TO BE BY THE GENERAL CONTRACTOR.
- PIPING OPENINGS THROUGH WALLS, FLOORS, AND CEILINGS UNDER 4"ø SHALL BE CORE DRILLED BY THE RESPECTIVE TRADE CONTRACTOR. PIPE OPENINGS THROUGH WALLS, FLOORS, AND CEILINGS OVER 4"ø SHALL BE CORE DRILLED AND/OR OTHERWISE SAW CUT BY G.C.
- THIS CONTRACT SHALL INCLUDE ALL LABOR, MATERIAL, AND MISCELLANEOUS EXPENSES REQUIRED FOR THE COMPLETE PLUMBING DEMOLITION THAT MAY BE NECESSARY IN THE RENOVATION OF THE STRUCTURE. THE DEMOLITION SHALL CONSIST OF THE COMPLETE REMOVAL (PROPERLY DISPOSED OFF SITE UNLESS OTHERWISE NOTED AND/OR DIRECTED BY OWNER) OF ALL PLUMBING EQUIPMENT, PIPING, MATERIALS, ETC. WITHIN THE BUILDING AREA. ALL EXISTING SERVICES TO BE REMOVED AS INDICATED ON SITE AND PLUMBING DRAWINGS IN THEIR ENTIRETY. COORDINATE ALL DEMOLITION WITH THE ARCHITECTURAL DOCUMENTS, THE ARCHITECT/OWNER, AND THE OWNER GENERAL REQUIREMENTS.
- CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS, AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK. THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.
- PLUMBING MATERIALS SHALL BE TYPE 1" COPPER FOR INT. WATER LINES, SCH. 40 PVC FOR SANITARY LINES, AND SCH. 40 BLACK STEEL WELDED 3" AND ABOVE FOR GAS LINES & THREADED FOR GAS LINES BELOW 3".

Site Utility Notes:

- LOCATION OF EXISTING UTILITIES ARE APPROX. VERIFY EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES
- SITE WATER LINES PIPING, FITTINGS, AND DEVICES SHALL COMPLY WITH F.M., N.F.P.A., O.B.C., AND LOCAL REQUIREMENTS. PIPING SHALL BE DUCTILE IRON PIPE, CLASS 52, CEMENT LINED, WITH PUSH-ON JOINTS OR C900 PVC PIPE AND INSTALLED WITH 4'-6" MIN. COVER.
- ALL FIRE LINES SHALL BE TESTED IN ACCORDANCE WITH F.M., O.B.C., N.F.P.A. AND LOCAL REQUIREMENTS.
- WATER MAINS SHALL BE INSTALLED WITH AT LEAST A 10'-0" HORIZONTAL AND 18" VERTICAL SEPARATION FROM ANY SANITARY SEWERS AND 4'-0" HORIZONTAL AND 18" VERTICAL SEPARATION FROM ANY STORM SEWR OR INLET LEAD WHERE THEY CROSS.
- WATER LINE SHALL MAINTAIN A 3'-0" MIN. HORIZONTAL & 12" VERTICAL CLEARANCE FROM EDGE OF WATER LINE TO EDGE OF ELECTRIC AND/ OR GAS SERVICES.
- SANITARY LINES SHALL BE SCH. 40 OR SDR-35 PVC @1/8"/FT. SLOPE
- UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED IN MAX. 10" LIFTS. #8 LIMESTONE SHALL BE USED AS BACKFILL IN PAVEMENT AREAS AS NOTED. OTHER AREAS MAY BE BACKFILLED & COMPACTED WITH EARTHEN MATERIALS.
- SITE STORM PIPING SHALL BE SDR-35 PVC OR CORRUGATED POLYETHYLENE STORM SEWER PIPE WITH SMOOTH INTERIOR AS MANUFACTURED BY HANCOX, INC. OR ADVANCED DRAINAGE SYSTEM INC. (MIN. 1/2% SLOPE)

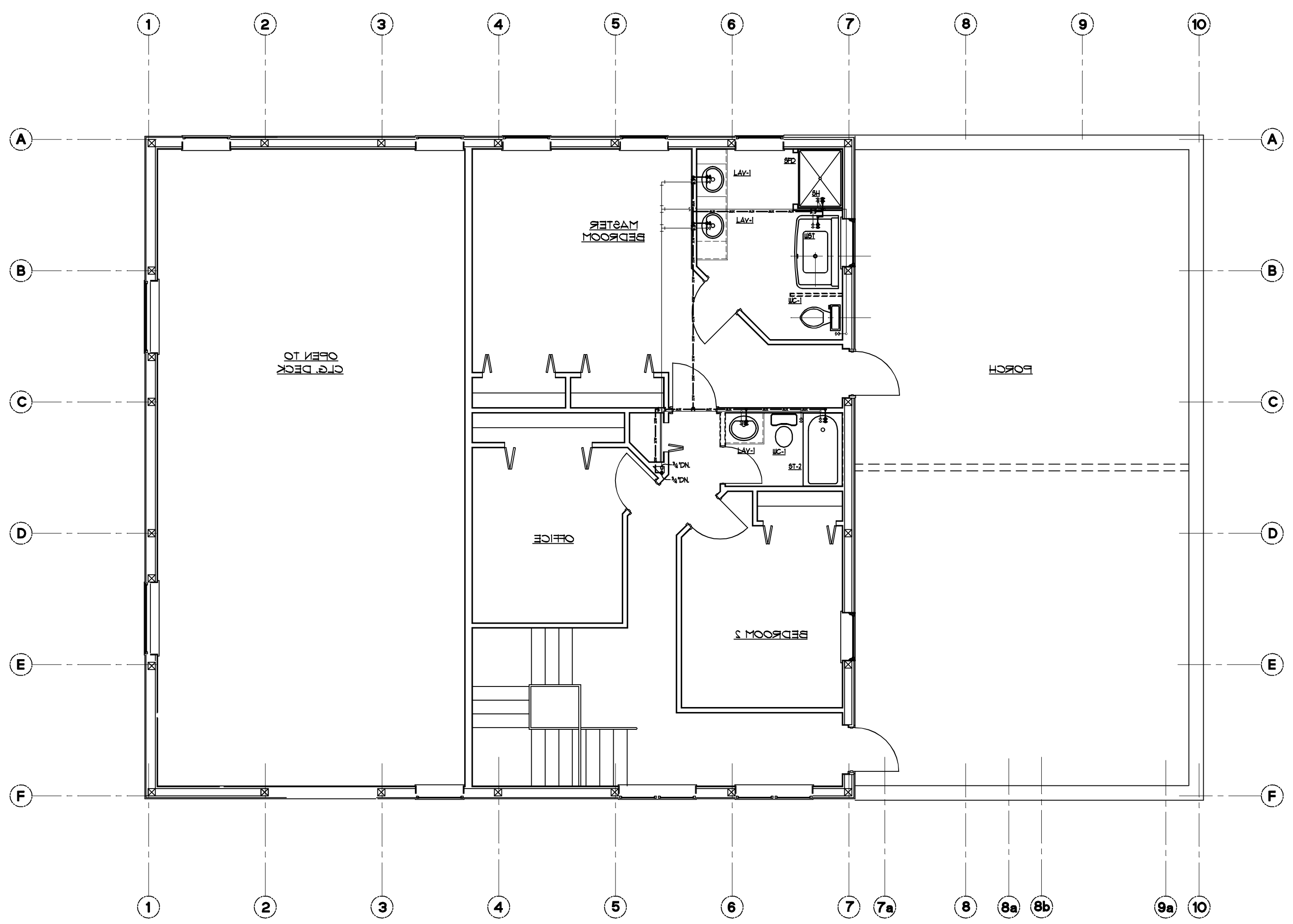


William Belloma #18307261
Expiration Date 12/31/27

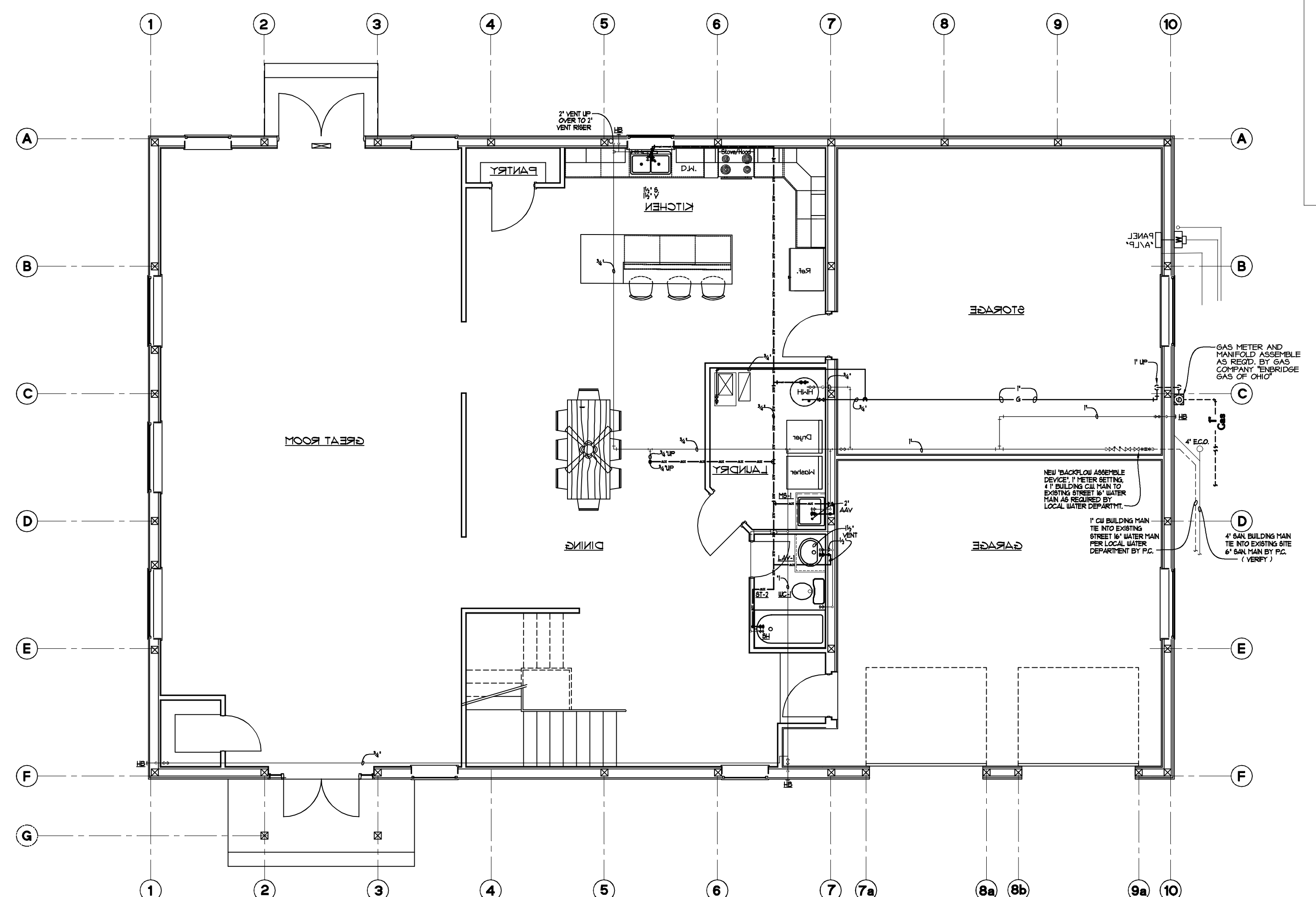
DWG. NO.
MEP-1.2
DATE March 31, 2026

Belloma Consulting
6522 Cornell Blvd. Newburgh, OH 44038 419-290-2808
Copyright 1920 WLB Architect
This drawing or any part thereof shall not be reproduced or modified without the consent of WLB Architect.

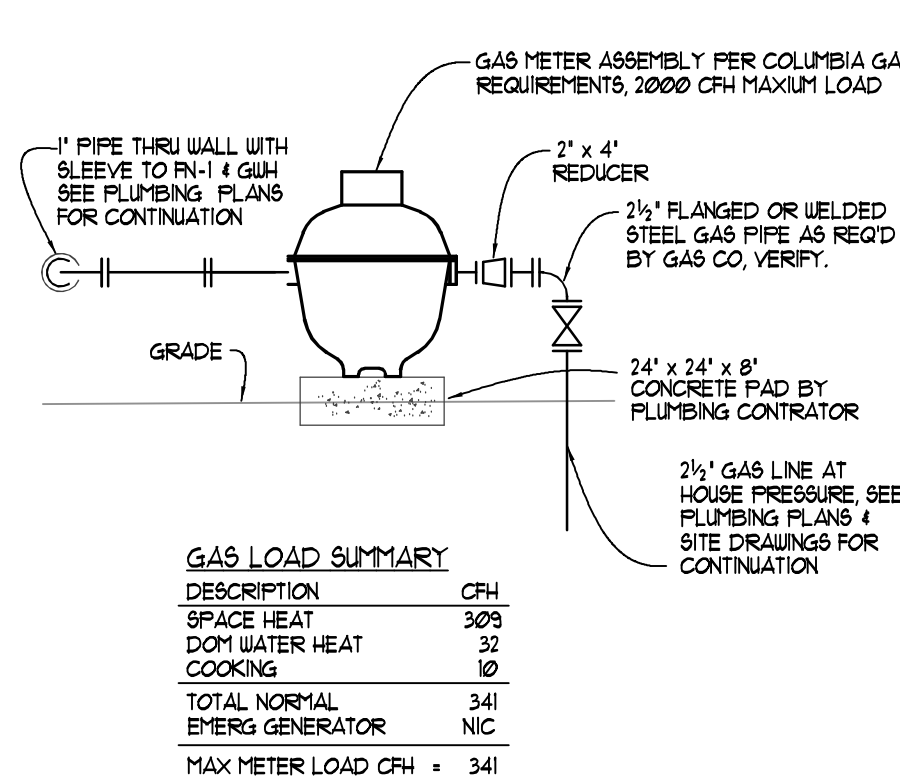
REVISION



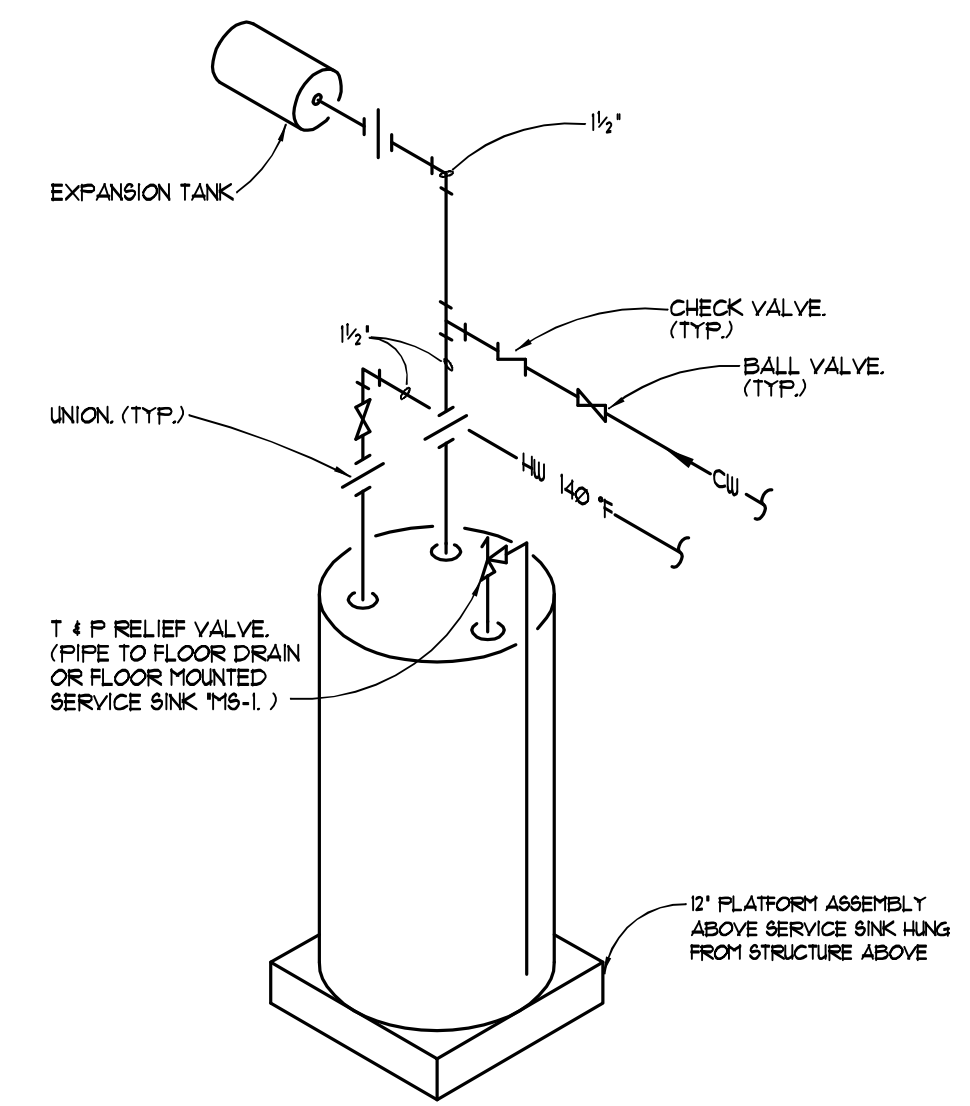
2nd. Flr. Domestic Water & Gas Plumbing Plan
 3/16" = 1'-0" NORTH



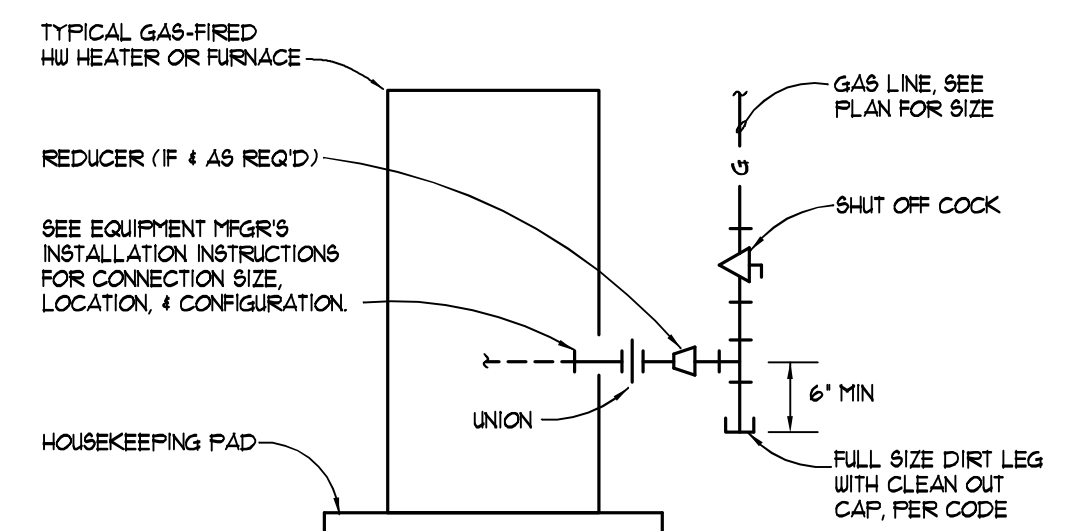
1st. Flr. Domestic Water & Gas Plumbing Plan
 3/16" = 1'-0" NORTH



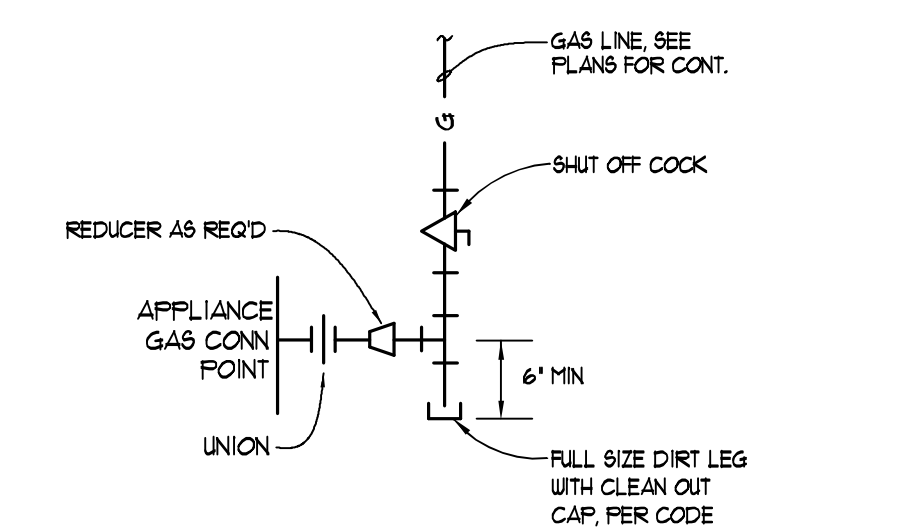
Gas Meter Detail
 Scale None



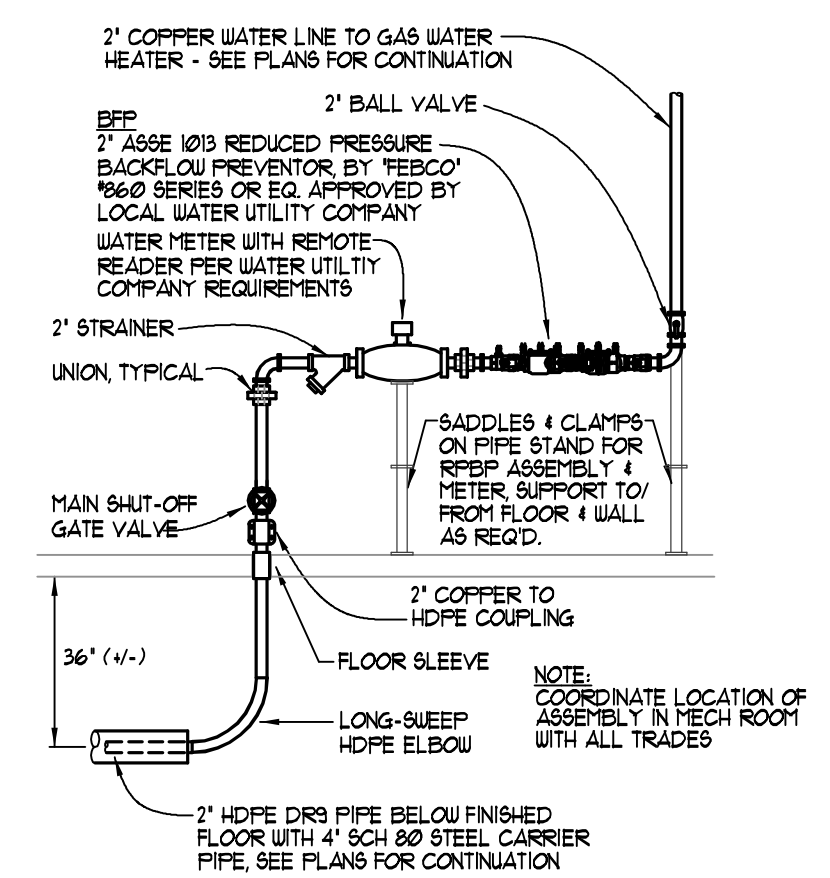
Typical HWH Detail
 Scale None



Stationary Gas Appliance
 Typical Connection Detail
 Scale None



Gas Appliance
 Typical Connection Detail
 Scale None



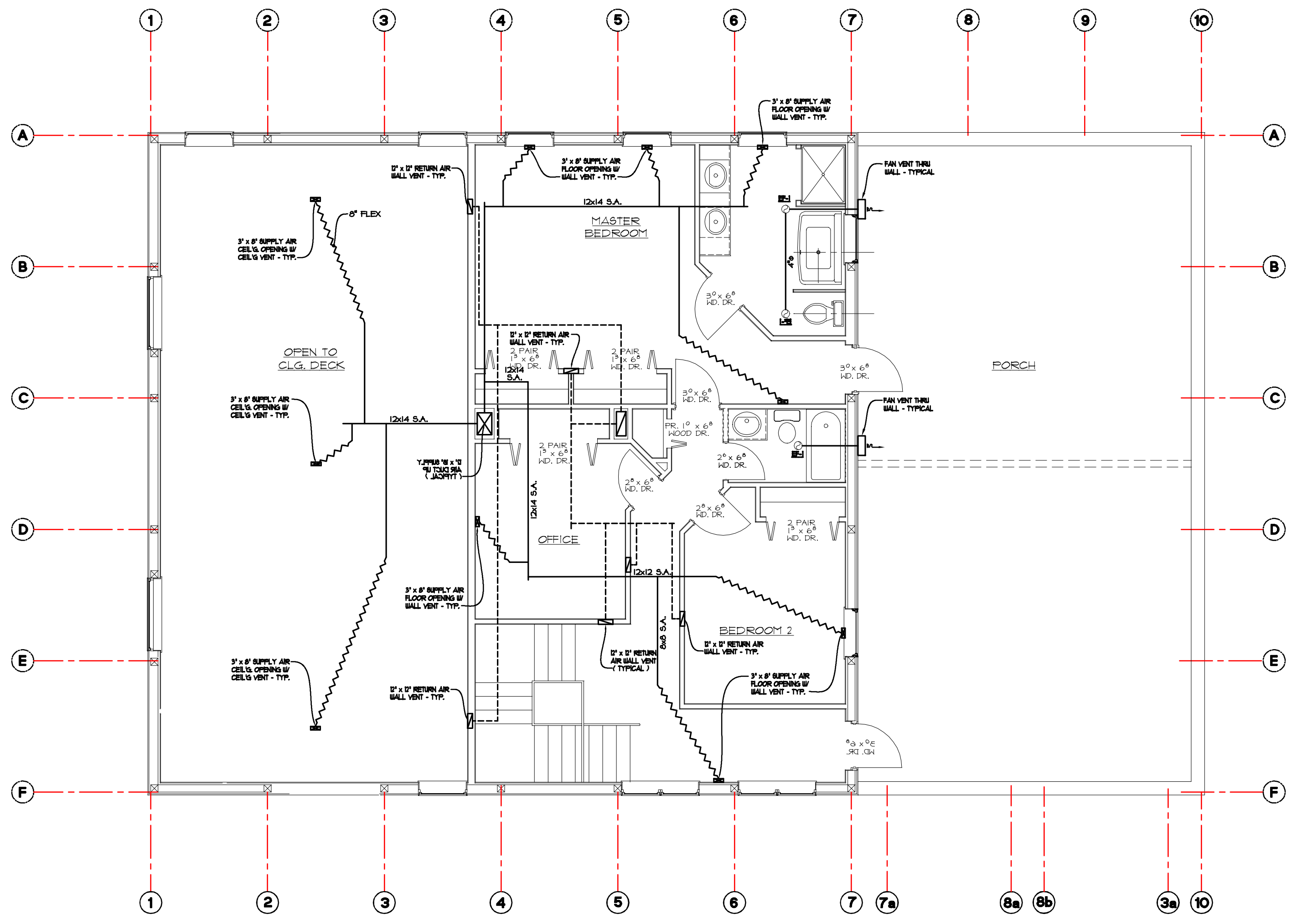
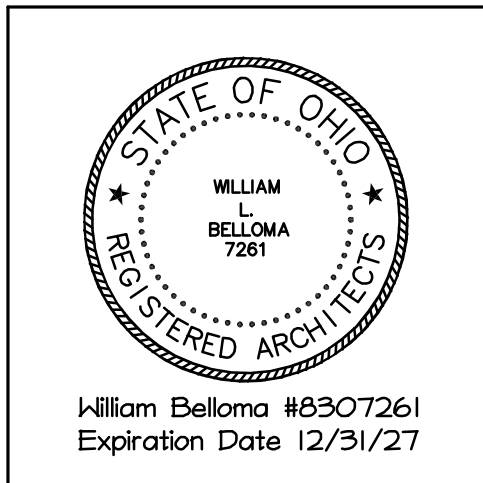
Water Main Riser Detail
 Scale None

Plumbing Fixtures Schedule

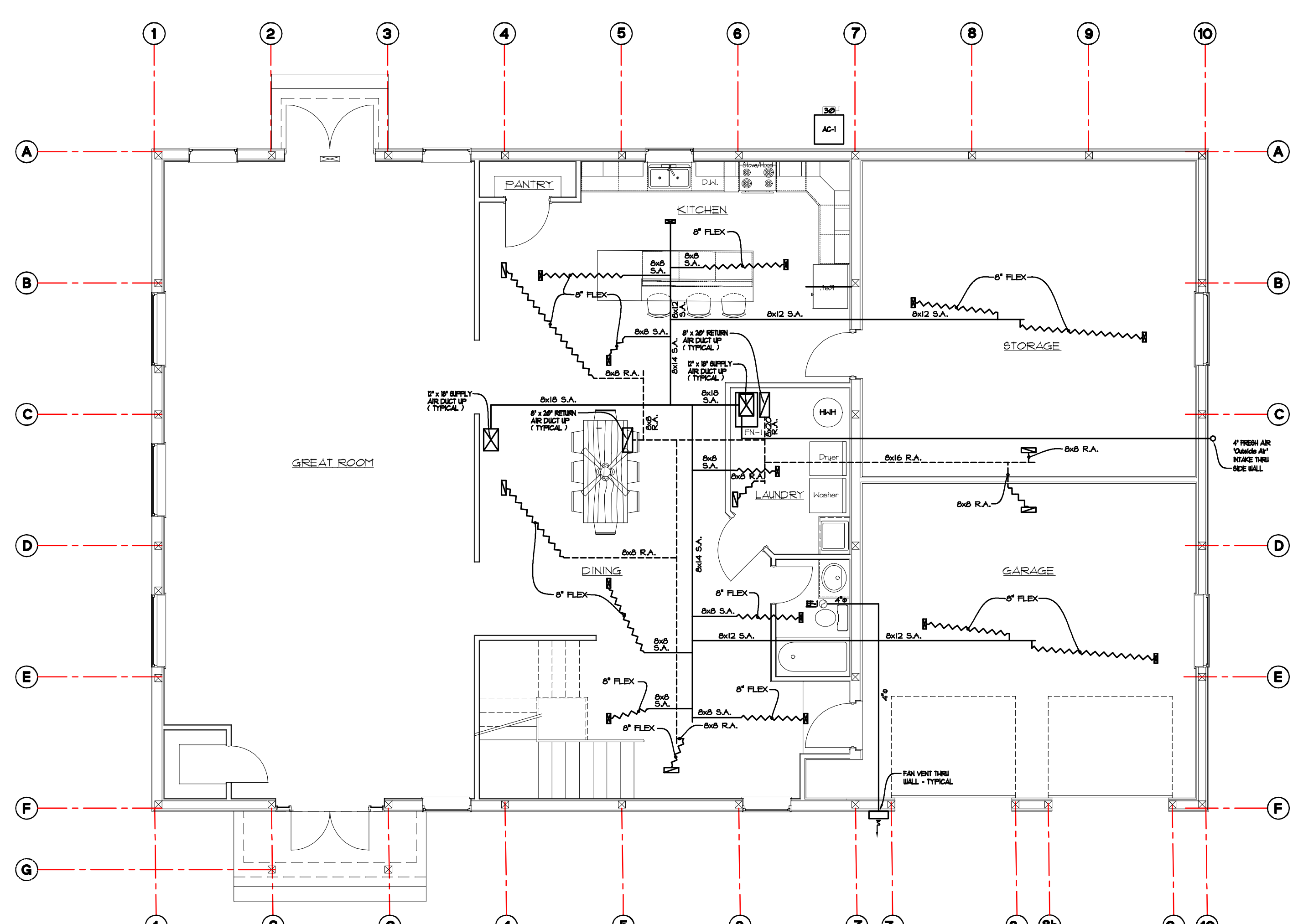
LAV-1	AMERICAN STANDARD 'AQUALYN' # 0416.028 SELF-RIMMING COUNTERTOP LAVATORY WITH 4' FAUCET CENTERS FAUCET SHALL BE MOEN 'BAIN-STREAM' MODEL 8400 CHROME, 4' CENTERSET WITH 4' SUPPLIES AND LEVER STYLE HANDLE, FURNISH CHROME STOPS, SUPPLIES AND A 1/4" OFFSET LAVATORY DRAIN WITH STAINLESS STEEL GRID AND 1/4" CHROME P-TRAIP PROTECT TRAP + SUPPLIES WITH TRAP URAP KIT 500R BY BROCAOR OR EQUAL.	51-2	AQUATIC, ONE PIECE TUB-SHOWER 6'-0" x 3' x 7', MODEL #6035GL WH-4D OR EQUAL WITH HAND HELD SHOWER ASSEMBLY ATTACHED TO SHOWER HEAD/VALVE ASSEMBLY (NOTED SH). OWNERS OPTION HDPE FOLD UP SEAT, 3/4" STAINLESS STEEL 18 GA. HORIZ GRAB BARS 30" x 1 1/2" x 24" x 1 1/2" AND 3/4" S. STL. 18 GA. VERTICAL GRAB BAR 24" x 1 1/2"
LAV-2	KITCHEN SINK ELKAY 'LUBERTONE' # LR332 (OR EQUAL), 33" x 22" DOUBLE BOWL TYPE 3/4" STAINLESS STEEL, 8" DEEP WITH TWO 3 1/2" DRAIN OPENINGS, FURNISH WITH LK-35 STRAINER AND TAIL PIECE ASSEMBLY, FAUCET SHALL BE MOEN 'LEGEND' MODEL 8722 WITH SPRAY ATTACHMENT AND LEVER HANDLE, RIGHT HAND BOWL OF SINK SHALL BE PROVIDED WITH PROVISIONS FOR AN IN-SINK-ERATOR MODEL 333 (OR EQUAL), 1/2 HORSEPOWER GARBAGE DISPOSER, FUTURE DISPOSAL SHALL BE FURNISHED WITH ALL STANDARD FEATURES INCLUDING 3 YEAR WARRANTY AND POWER CORD.	5FD	SHOWER FLOOR DRAIN 'SIOUX CHIEF' # 864 SERIES' (OR EQUAL) WITH ABS GRATE SEE PLANS AND RISE/DIAGRAMS FOR SIZES
MS-1	MUSTEE 4 SON MODEL DURASTONE 100, ONE PIECE MOLDED FIBERGLASS SELF-RIMMING COUNTERTOP UTILITY SINK 22" x 25" x 13 1/4" WHITE FINISH FAUCET SHALL BE MOEN MODEL 8030 WITH TOP SUPPLIES ON 8" CENTERS, VACUUM BREAKER SPOUT, WALL BRACE, A POLISHED CHROME FINISH, FURNISH SINK WITH ADDITIONAL PRODUCTS OR ACCESSORIES REQUIRED TO CONNECT TO THE BUILDING PLUMBING SYSTEM.	5HJ	GAS FIRED WATER HEATER EQUAL TO 'STATE PROLINE', ATMOSPHERIC VENT ENERGY SAVER WATER HEATER MODEL 125X-40-BR5T, 40 GALLON TANK WITH 42 GPH RECOVERY AT 20° FAHRENHEIT TEMPERATURE RISE, 150 PSI MAX. WATER PRESSURE, WATER HEATER SHALL HAVE A TEN (10) YEAR TANK AND SIX (6) YEAR PARTS AND SERVICES WARRANTY.
WC-1	ADA COMPLIANT TOILET AMERICAN STANDARD (OR EQUAL) 'CHAMPION 4 ELONGATED MODEL # 2002.014' TANK TYPE 'CHAMPION 4 FLUSHING SYSTEM' FLOOR MOUNTED WATER CLOSET, 17" HIGH WITH SEAT, 16 GPF, FURNISH COMPLETE WITH TANK FLUSH COMPONENTS, FLOOR BOLTS WITH CAPS, WAX SEAL, ALL ASSOCIATED TRIM, FITTINGS AND HARDWARE. SEAT SHALL BE WHITE SOLID PLASTIC WITH OPEN FRONT LEGS COVER, PROVIDE COMPLETE WITH CHROME SUPPLY AND SERVICE STOP.	5HB	JAY R SMITH MODEL # 56090T OR EQUAL FREEZELESS WALL HYDRANTS WITH INTEGRAL VACUUM BREAKER, CONTRACTOR TO ORDER PROPER LENGTH HYDRANT REQUIRED BASED ON WALL THICKNESS.
WBT	'AMERICAN STANDARD' FREE STANDING ACRYLIC SOAKING TUB 60" x 36 1/2" x 21 1/2", MODEL #T11V002 (OR EQUAL) WITH INTEGRAL CENTER DRAIN, WIDE DECK, DRAIN OVERFLOW KIT MODEL #582000.002 (OR EQUAL), DECK MOUNTED FAUCET TOUNGEND MODEL #1353.301	5GC	WALL OR FLOOR CLEANOUT 'SIOUX CHIEF' # 891 SERIES' (OR EQUAL) ADJUSTABLE CLEANOUT WITH NO-HUB CONNECTION AND CAST-IRON COVER. SEE PLANS AND RISE/DIAGRAMS FOR SIZES.
		5WA	WATER HAMMER ARRESTERS SHALL BE WATTS SERIES 15 OR EQUAL, PROVIDE A BALL VALVE AND DIELECTRIC UNION WHERE APPLICABLE FOR DISSIMILAR PIPING MATERIALS. PROVIDE ACCESS PANELS IN WALL AND/OR CEILING FOR SERVICE FINAL TYPE, LOCATION AND CONFIGURATION OF WATER HAMMER DEVICES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
		5ED	FLOOR DRAIN 'SIOUX CHIEF' # 864 SERIES' (OR EQUAL) WITH DUCTIRON GRATE. SEE PLANS AND SANITARY ISOMETRIC FOR SIZES

- ### Site Utility Notes:
- LOCATION OF EXISTING UTILITIES ARE APPROX. VERIFY EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES.
 - SITE WATER LINES PIPING, FITTINGS, AND DEVICES SHALL COMPLY WITH F.M., N.F.P.A., O.B.C. AND LOCAL REQUIREMENTS, PIPING SHALL BE DUCTILE IRON PIPE, CLASS 52, CEMENT LINED, WITH PUSH-ON JOINTS OR C900 PVC PIPE AND INSTALLED WITH 4'-6" MIN. COVER.
 - ALL FIRE LINES SHALL BE TESTED IN ACCORDANCE WITH F.M., O.B.C., N.F.P.A. AND LOCAL REQUIREMENTS.
 - WATER MAINS SHALL BE INSTALLED WITH AT LEAST A 10'-0" HORIZONTAL AND 18" VERTICAL SEPARATION FROM ANY SANITARY SEWERS AND 4'-0" HORIZONTAL AND 18" VERTICAL SEPARATION FROM ANY STORM SEWER OR INLET LEAD WHERE THEY CROSS.
 - WATER LINE SHALL MAINTAIN A 3'-0" MIN. HORIZONTAL & 12" VERTICAL CLEARANCE FROM EDGE OF WATER LINE TO EDGE OF ELECTRIC AND/OR GAS SERVICES.
 - SANITARY LINES SHALL BE SCH. 40 OR SDR-35 PVC @ 1/8" FT. SLOPE
 - UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED IN MAX. 10" LIFTS, #0 LIMESTONE SHALL BE USED AS BACKFILL IN PAVEMENT AREAS AS NOTED, OTHER AREAS MAY BE BACKFILLED & COMPACTED WITH EARTHEN MATERIALS.
 - SITE STORM PIPING SHALL BE SDR-35 PVC OR CORRUGATED POLYETHYLENE STORM SEWER PIPE WITH SMOOTH INTERIOR AS MANUFACTURED BY HANCOCK, INC. OR ADVANCED DRAINAGE SYSTEM INC. (MIN. 1/2% SLOPE)

- ### Plumbing General Notes:
- ALL PLUMBING LINES SHOWN THIS DRAWING ARE SCHEMATIC REPRESENTATION OF THE REQUIRED NEW/RENOVATION WORK, THE FINAL LOCATION AND ARRANGEMENT MAY VARY DUE TO EXISTING FIELD CONDITIONS ENCOUNTER AT THE TIME OF CONSTRUCTION, FIELD VERIFY EXACT LOCATIONS, INVERTS, ETC. OF ALL EXISTING UTILITY SERVICES AND CONNECTIONS, MODIFY DESIGN AS REQUIRED TO MATCH ACTUAL FIELD CONDITIONS.
 - THIS CONTRACTOR SHALL INCLUDE ALL CONNECTIONS (WATER, SANITARY, VENT, GAS, ETC.) REQUIRED BY ALL FIXTURES AND EQUIPMENT FOR THE PROJECT WHETHER SUPPLIED BY THIS CONTRACTOR, OTHER SUBTRADES OR THE OWNER, ALL ROUGH-IN SHALL BE AS REQUIRED BY THE SPECIFIC EQUIPMENT REQUIREMENTS, OBTAIN ALL ROUGH-IN AND CONNECTION INFORMATION FROM THE RESPECTIVE FIXTURE AND EQUIPMENT SUPPLIERS, ALL WATER CONNECTIONS TO EQUIPMENT AND FIXTURES SHALL HAVE STOPS OR VALVES, EACH EQUIPMENT GAS CONNECTION SHALL HAVE AN INDEPENDENT SHUTOFF VALVE, PROVIDE ALL REQUIRED TRAPS AND VENT PIPING FOR FIXTURES AND EQUIPMENT DIRECTLY CONNECTED TO THE SANITARY SYSTEM.
 - COORDINATE LOCATION AND ELEVATION OF PLUMBING WITH THE LOCATION OF DUCTWORK, LIGHTING AND STRUCTURAL MEMBERS.
 - ALL PLUMBING SHALL BE CONCEALED UNLESS NOTED TO BE EXPOSED, PLUMBING SHALL BE INSTALLED AS HIGH AS POSSIBLE AND WITHIN THE JOIST SPACE WHEREVER POSSIBLE.
 - ALL NEW SANITARY, COLD WATER, AND HOT WATER LINES SHALL BE INSULATED IN ACCORDANCE WITH OHIO PLUMBING CODE AND NEW FIXTURES MANUFACTURER REQUIREMENTS.
 - PLUMBING CONTRACTOR SHALL SUPPLY A SAFE WASTE DRAIN PAN AND RELIEF VALVE TO OUTSIDE WITH EACH NEW ELECTRIC OR GAS FIRED HOT WATER TANK.
 - ALL DEMOLITION RELATED/REQUIRED TO BE PERFORMED SHALL BE DONE BY EACH RESPECTIVE PRIME CONTRACTOR AND NOT LIMITED TO GENERAL CONTRACTOR, MECHANICAL CONTRACTOR, PLUMBING CONTRACTOR, AND ELECTRICAL CONTRACTOR WHETHER INDICATED OR NOT WITH ALL DEBRIS TO BE BY THE GENERAL CONTRACTOR.
 - PIPING OPENINGS THROUGH WALLS, FLOORS, AND CEILINGS UNDER 4" SHALL BE CORE DRILLED BY THE RESPECTIVE TRADE CONTRACTOR. PIPE OPENINGS THROUGH WALLS, FLOORS, AND CEILINGS OVER 4" & 4" SHALL BE CORE DRILLED AND/OR OTHERWISE SAK CUT BY G.C.
 - THIS CONTRACT SHALL INCLUDE ALL LABOR, MATERIAL, AND MISCELLANEOUS EXPENSES REQUIRED FOR THE COMPLETE PLUMBING DEMOLITION THAT MAY BE NECESSARY IN THE RENOVATION OF THE STRUCTURE, THE DEMOLITION SHALL CONSIST OF THE COMPLETE REMOVAL (PROPERLY DISPOSED OFF SITE UNLESS OTHERWISE NOTED AND/OR DIRECTED BY OWNER) OF ALL PLUMBING EQUIPMENT, PIPING, MATERIALS, ETC. WITHIN THE BUILDING AREA, ALL EXISTING SERVICES TO BE REMOVED AS INDICATED ON SITE AND PLUMBING DRAININGS IN THEIR ENTIRETY, COORDINATE ALL DEMOLITION WITH THE ARCHITECTURAL DOCUMENTS, THE ARCHITECT/OWNER, AND THE OWNER GENERAL REQUIREMENTS.
 - CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS, AND INSPECTIONS REQUIRED TO PROCEED WITH THE WORK, THIS SHALL INCLUDE ALL REQUIRED COORDINATION WITH LOCAL UTILITY COMPANIES AND THEIR ASSOCIATED FEES OR COSTS.
 - PLUMBING MATERIALS SHALL BE TYPE 1/2" COPPER FOR INT. WATER LINES, SCH. 40 PVC FOR SANITARY LINES, AND SCH. 40 BLACK STEEL WELDED 3" AND ABOVE FOR GAS LINES & THREADED FOR GAS LINES BELOW 3".



2nd Floor HVAC Plan
 3/16" = 1'-0" NORTH



2nd Floor HVAC Plan
 3/16" = 1'-0" NORTH

H.V.A.C. Notes and Specifications

- A. GENERAL**
- EXCEPT AS SPECIFIED TO THE CONTRARY, THIS CONTRACT SHALL INCLUDE THE FURNISHING, INSTALLING, CONNECTING, AND OPERATION OF ALL EQUIPMENT WHICH IS A PART OF THE HVAC SYSTEMS AS SHOWN ON THE DRAWINGS AND AS REQUIRED BY SIMILAR INSTALLATIONS. CONTRACTOR SHALL PROVIDE ALL LABOR AND DESIGNATED MATERIALS REQUIRED TO PROVIDE THE OWNER COMPLETE, CODE APPROVED AND OPERATIONAL HVAC SYSTEM.
 - CONTRACTOR SHALL NOTE THAT AT THE TIME OF THIS PRINTING, FINAL INFORMATION REGARDING THE HVAC CONTROLS AND OTHER ITEMS WERE NOT AVAILABLE AND/OR INCLUDED ON THE DRAWINGS OR WITHIN THE SPECIFICATION. SEE FORTHCOMING ADDENDUM RELATED PLANS AND REVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS SPECIFICALLY WITH THE HVAC CONTROLS/BUILDING AUTOMATION SYSTEMS AND RELATIONSHIP WITH THE SCHEDULED AND/OR SPECIFIED EQUIPMENT.
 - SEE ARCHITECTURAL DRAWINGS AND BID DOCUMENTS REGARDING ALTERNATES.
 - GENERAL CONDITIONS OF THE CONTRACT NOTED IN THE ARCHITECTURAL DOCUMENTS, GENERAL AND SPECIAL CONDITIONS OF THE AMERICAN INSTITUTE OF ARCHITECTS (AIA) AND ANY OF THE OWNER'S GENERAL REQUIREMENTS SHALL APPLY UNLESS NOTED OTHERWISE.
 - CONTRACTOR SHALL NOTE THAT ALL HVAC WORK UNDER THIS CONTRACT IS CONSIDERED AS PRIME WITH DIRECTION & COORDINATION WITH THE ARCHITECT, WELLINGTON TOWNSHIP AND THE GENERAL CONTRACTOR. SEE BID/CONSTRUCTION DOCUMENTS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - THE DRAWINGS ARE DIAGRAMMATIC. ALL WORK SHALL BE PERFORMED AS INDICATED ON THE DRAWINGS UNLESS EXISTING CONDITIONS OR COORDINATION ISSUES REQUIRE CHANGES. THESE CHANGES SHALL BE MADE WITH NO ADDITIONAL COST TO THE OWNER.
 - ANY INCIDENTAL ITEMS OR LABOR, ETC. NOT INCLUDED IN THE SPECIFICATIONS OR THE DRAWINGS BUT REASONABLY IMPLIED AS NECESSARY FOR THE COMPLETE INSTALLATION OF ALL APPARATUS ARE TO BE FURNISHED WITHOUT ADDITIONAL COST. THE QUESTION AS TO WHETHER THE ITEM OR ITEMS ARE INCIDENTAL SHALL IN ALL CASES BE LEFT TO THE JUDGMENT OF THE ARCHITECT.
 - ALL WORK SHALL BE IN CONFORMANCE WITH THE LATEST EDITIONS OF ALL FEDERAL, STATE AND LOCAL CODES, ORDINANCES AND JURISDICTIONS INCLUDING THE OHIO BUILDING CODE, OHIO PLUMBING CODE, OHIO MECHANICAL CODE, NFPA LOCAL JURISDICTION AND ALL REFERENCED AND INDUSTRY STANDARDS. VERIFY AND COORDINATE ANY OTHER SPECIAL ARCHITECTURAL AND/OR OWNER REQUIREMENTS IN ADDITION TO THOSE SPECIFIED HEREIN.
 - CONTRACTOR SHALL PAY FOR AND OBTAIN ALL NECESSARY LICENSES, PERMITS, INSPECTIONS AND CERTIFICATES REQUIRED TO PROCEED WITH THE WORK.
 - INSTALLATION OF ALL EQUIPMENT SHALL COMPLY WITH THE MANUFACTURER'S INSTALLATION MANUALS, REQUIREMENTS AND ANY ADDITIONAL GUIDELINES INDICATED ON THE PLANS OR SPECIFIED HEREIN. CONTRACTOR SHALL PROVIDE ALL ADDITIONAL REQUIRED ACCESSORIES REQUIRED TO COMPLETE THE INSTALLATIONS.
 - SHOP DRAWINGS SHALL BE PROVIDED TO THE ARCHITECT OF ALL EQUIPMENT AND ACCESSORIES PROVIDED FOR THE PROJECT WHETHER SPECIFIED HEREIN OR ON THE DRAWINGS. REVIEW OF THE SHOP DRAWINGS SHALL BE FOR GENERAL DESIGN CONCEPT AND ADHERENCE WITH THE SPECIFICATIONS. QUANTITY OF SHOP DRAWINGS SUBMITTED SHALL BE AS SPECIFIED BY THE ARCHITECT.
 - THE BIDDING OF THIS WORK WILL CONTEMPLATE THE USE OF EQUIPMENT AND MATERIALS EXACTLY AS SPECIFIED HEREIN. WHERE ONE OR MORE NAMES OF MANUFACTURERS ARE MENTIONED, ANY ONE MAY BE UTILIZED. IF CONTRACTOR INTENDS TO SUBSTITUTE ANY EQUIPMENT AS TO TYPE AND/OR MANUFACTURER AFTER THE CONTRACT IS AWARDED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT IN WRITING AS TO REASONS FOR SUCH SUBSTITUTIONS AND ANY CHANGES IN SCHEDULE AND/OR COST TO THE CONTRACT.
 - ALL MATERIALS AND METHODS SPECIFIED HEREIN SHALL BE MINIMUM. IF A CONFLICT OCCURS, THE ARCHITECT SHALL RESOLVE SUCH CONFLICT WITH THE CONTRACTOR CONFORMING TO THE ARCHITECT'S DECISION.
- A. GENERAL CONTINUED**
- THIS CONTRACT SHALL INCLUDE A VISIT TO THE JOB SITE AND TAKE INTO CONSIDERATION MECHANICAL, ELECTRICAL, AND GENERAL TRADE WORK CURRENTLY EXISTING AND WORK WHICH MAY BE INSTALLED PRIOR TO CONTRACT AWARD. RELOCATION OF EXISTING AND/OR NEW PIPING AND EQUIPMENT, AS REQUIRED, TO AVOID THIS WORK SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
 - ALL MECHANICAL SERVICES SHALL BE FIELD VERIFIED. CORRECTIONS TO THE DESIGN AND INSTALLATION SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER.
 - CONTRACTOR SHALL VERIFY THAT ALL PIPE PENETRATIONS THROUGH RATED ASSEMBLIES MEET APPROVED CODES REQUIRED FIRESTOPPING REQUIREMENTS. COORDINATE LOCATIONS AND TYPES OF FIRESTOPPING MATERIALS WITH THE ARCHITECT AND GENERAL CONTRACTOR (SEE PROJECT COVER SHEET DRAWING AND ARCHITECTURAL SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS).
 - NEW HVAC SYSTEMS PIPING, AIR DISTRIBUTION AND/OR RELATED EQUIPMENT SHALL NOT BE SUPPORTED FROM ANY CEILING, OTHER PIPING, CONDUIT, DUCTWORK OR FLOOR DECKINGS. ITEMS SHALL BE SUPPORTED FROM ACCEPTABLE STRUCTURAL BUILDING COMPONENTS AS DETERMINED BY THE ARCHITECT AND INDUSTRY STANDARDS FOR THE TYPE OF SUPPORT CONDITIONS ENCOUNTERED.
 - REFER TO THE GENERAL CONDITIONS ON THE ARCHITECTURAL DOCUMENTS AND THE GENERAL AND SPECIAL CONDITIONS OF STANDARD AIA DOCUMENTS FOR ADDITIONAL REQUIREMENTS REGARDING SAFETY, COORDINATION & COOPERATION, WORKMANSHIP, PROTECTION, CUTTING AND PATCHING, DAMAGE TO OTHER WORK, PRELIMINARY OPERATIONS, STORAGE, ADJUSTMENTS, CLEANING, ETC.
 - AFTER THE ACCEPTANCE TESTS ARE COMPLETED AND ACCEPTED BY THE OWNER, AS-BUILT DOCUMENTATION SHALL BE PROVIDED TO THE ARCHITECT. IT SHALL INCLUDE, BUT NOT BE LIMITED TO ACCURATE PLAN DRAWINGS, OPERATION AND MAINTENANCE MANUALS, APPLICABLE SYSTEM SCHEMATICS, WRITTEN SEQUENCE OF OPERATION, AND ALL FACTORY INSTALLATION DIAGRAMS.
 - ALL WORK SHALL BE GUARANTEED FOR ONE YEAR AFTER ACCEPTANCE BY THE ARCHITECT AND OWNER.
- B. HVAC GENERAL SCOPE AND MATERIALS**
- THE SCOPE OF HVAC WORK SHALL INCLUDE THE WORK INDICATED ON THE DRAWINGS AND AS FOLLOWS:
 - PROVISIONS AND INSTALLATION OF ALL HVAC EQUIPMENT, AIR DISTRIBUTION SYSTEMS, SYSTEMS, ETC. AS SHOWN ON THE DRAWINGS, SPECIFIED HEREIN AND AS REQUIRED.
 - PROVISION AND INSTALLATION OF BUILDING AUTOMATION AND CONTROLS SYSTEMS AS REQUIRED WITH NEW HVAC SYSTEMS, FORTHCOMING ADDENDUMS AND SPECIFICATIONS HEREIN.
 - AIR BALANCING.
 - ALL SUPPLY AIR DUCTWORK (ROUND OR RECTANGULAR) SHALL BE OF GALVANIZED STEEL. CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE OHIO MECHANICAL CODE AND THE 2' UG. TABLE IN THE LATEST EDITION OF THE SHACMA MANUAL. SEAL PER SHACMA SEAL CLASS 1A.
 - ALL OUTDOOR AIR RETURN AND GENERAL EXHAUST AIR DUCTWORK (ROUND OR RECTANGULAR) SHALL BE OF GALVANIZED STEEL. CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE OHIO MECHANICAL CODE AND THE NEGATIVE 2' UG. TABLE IN THE LATEST EDITION OF THE SHACMA MANUAL. SEAL PER SHACMA SEAL CLASS 1A.
 - ALL EXHAUST DUCTWORK SERVING HIGH MOISTURE/WATER AREAS SHALL BE CONNECTED OF ALUMINUM ONE GAUGE HEAVIER THAN GALVANIZED STEEL CONSTRUCTION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE OHIO MECHANICAL CODE AND THE NEGATIVE 2' UG. TABLE IN THE LATEST EDITION OF THE SHACMA MANUAL. SEAL PER SHACMA SEAL CLASS 1A.
 - FINAL CONNECTIONS TO DIFFUSERS MAY BE MADE WITH FLEXIBLE DUCTWORK BUT ITS USE IS LIMITED TO STRAIGHT HORIZONTAL OR VERTICAL RUNS. ALL CHANGES OF DIRECTION IN AN DUCT SYSTEM (GALVANIZED OR FLEXIBLE) SHALL BE MADE WITH AN APPROPRIATE GALVANIZED ELBOW. MAXIMUM LENGTH OF ANY FLEXIBLE DUCT IS 3'-0".

H.V.A.C. Specifications

- FN-1** ENERGY EFFICIENT 60,000 BTU INPUT, TWO (2) STAGE OUTPUT, 1st STAGE 52,000 (INPUT BTU) 50,440 OUTPUT BTU, 2nd STAGE 60,000 INPUT BTU 77,600 OUTPUT BTU, 1600 CFM MAX, 96% AFUE, 3" PVC VENTING, SEALED COMBUSTION, FOUR (4) SPEED MOTOR, 120V/60 ELECT, 10 YEAR PARTS WARRANTY, HEAT EXCHANGER LIMITED LIFETIME WARRANTY, MODEL #A952V080U454B OR EQUAL.
- AC-1** "TRANS" A4AC, 15.2 SEER 2.4 TON R410A, 30A 208/230V/60, SINGLE PHASE, CONDENSER, MODEL #A4AC4048D1000A OR EQUAL.
- COIL** "TRANS" OR EQUAL CASED COIL TO MATCH FURNACE AND CONDENSER PROVIDED PER MANUFACTURER RECOMMENDATIONS & SPECIFICATION.
- 2 THERMOSTAT FOR 2 ZONE SYSTEM HONEYWELL - VISION PRO 8000 PROGRAMMABLE LOCKABLE TOUCHSCREEN MODEL ITH810U003 OR EQ.
 - DUCTWORK GALVANIZED SUPPLY WRAPPED R-8 FOIL BACK 1/2" INSULATION WITH INSULATED FLEX CONNECTORS TO CEILING DIFFUSERS.
 - SUPPLY DIFFUSERS - CONTINENTAL OR EQUAL FLOOR/CEILING 4x12, 6x12, 16x16, 4 24x24
 - RETURN GRILLES - CONTINENTAL OR EQUAL FLOOR/CEILING 4x12, 6x12, 16x16, 4 24x24
 - OUTSIDE AIR "OA" - 4" PIPE TO EXTERIOR MINIMUM 10'-0" FROM ANY EXHAUST.
 - FILTER STANDARD 1" THROW 4W4Y
- EF-1** EXHAUST FANS "GREENHECK" CEILING MOUNTED RESTROOM EXHAUST WITH AUTOMATIC SENSOR LIGHT FAN MODEL RSP-AP05114L AT 0.265" SP, 110 CFM, 2.0 SONES, SINGLE PHASE, 115V, 60 AMP, 60 HERTZ, 16.3 WATTS OR EQ. FURNISH WITH STANDARD DISCONNECT, INSTALLED ON A FAN HANGING VIBRATION ISOLATOR KIT "COOK" SERIES 100 DAMPER, 115 VOLT, ISOLATOR KIT OR GREENHECK EQUAL, AND A WHITE ALUMINUM GRILLE WITH 4" VENT TO THE EXTERIOR.
- ALL ROUND DUCT ELBOWS SHALL BE LONG SWEEP 1-1/2 TIMES THE CENTERLINE RADIUS UNLESS CLEARANCE IS NOT AVAILABLE AT WHICH TIME FILTERED ELBOWS WITH TURNING VANES SHALL BE UTILIZED.
 - ALL RECTANGULAR ELBOWS SHALL BE FINISHED WITH DOUBLE THICKNESS TURNING VANES. TURNING VANES SHALL BE FASTENED WITH A DOUBLE ROW
 - INTERNALLY INSULATE WITH 1" THICK 15# DENSITY ACOUSTICAL INSULATION (AIR SIDE BLACK COATED TO MEET NFPA) ALL DUCTWORK NOTED AS REQUIRING SUCH INSULATION BY OUMS-CORNING, KNAUF, OR MANVILLE IS ACCEPTABLE. INTERNAL INSULATION SHALL BE INSTALLED PER THE REQUIREMENTS OF THE SHACMA GUIDE AND THE MANUFACTURER'S RECOMMENDATIONS.
 - ALL SUPPLY AIR DUCTWORK NOT INTERNALLY LINED SHALL BE WRAPPED WITH 1/2" OF 2" B LBOCUT FIBERGLASS ROL BACKED DUCT WRAPPING INSULATION. MAINTAIN ACCESS TO BALANCING DAMPERS.
 - INSTALL FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL AIR MOVING EQUIPMENT. FLEXIBLE CONNECTIONS SHALL BE MADE WITH 3" WIDE DOUBLE NEOPRENE COATED FLARE RETARDANT NFPA 90A APPROVED, FIBERGLASS FLEXIBLE CONNECTION. FLEXIBLE CONNECTION TO HAVE A MINIMUM OF 24 GAUGE, 3" WIDE SHEET METAL COLLARS PERMANENTLY ATTACHED TO EACH SIDE.
 - FILTERED OFFSETS GREATER THAN 30 DEGREE IN EITHER DIRECTION SHALL NOT BE PERMITTED.
 - CHANGES IN DUCT SIZES SHALL BE MADE BY UNIFORM TAPER SECTION WITH A MAXIMUM INCLUDE ANGLE OF DIVERGENCE OF 5 DEGREE.
 - SPRITTER DAMPERS SHALL NOT BE PERMITTED UNLESS SPECIFICALLY NOTED ON THE DRAWING.
 - VOLUME DAMPERS SHALL BE SINGLE BLADE UP TO 6" IN WIDTH AND MULTI-BLADE FOR LARGER SIZES. DAMPERS SHALL HAVE END BEARINGS AND SHALL INCORPORATE LOCKING TYPE INDICATING ADJUSTMENT. VOLUME DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCTS TO DIFFUSERS.
 - FLEXIBLE DUCTS TO DIFFUSERS SHALL BE ATCO RUBBER PRODUCTS, INC. OF 808814PC 1010, INSULATED (R-42) UL B1 RATED AND CLASS 1 AIR CONNECTOR. MAXIMUM LENGTH OF FLEXIBLE DUCT TO DIFFUSER TO BE 3'-0".
 - FIRE DAMPERS SHALL BE EQUAL TO RUSKIN AND BE INSTALLED PER MANUFACTURER'S AND SHACMA REQUIREMENTS FOR A UL APPROVED INSTALLATION. FIRE DAMPERS SHALL BE TYPE "B" (BLADES AND FRAME COMPLETELY OUT OF THE AIRWAY) AND SHALL BE INSTALLED WITH THE APPROPRIATE WALL SLEEVE AND ANGLE. FIRE DAMPERS SHALL BE INSTALLED IN ALL FIRE RATED WALLS. VERIFY FIRE RATED WALL LOCATIONS AND RATINGS ON THE ARCHITECTURAL DOCUMENTS.
 - DOUBLE THICKNESS INSULATED ACCESS DOORS SHALL BE PROVIDED AT ALL FIRE DAMPERS FOR ACCESS TO RUSKIN LINK. DOOR SHALL BE SIZED TO ALLOW FOR EASY SERVICE AND ACCESSIBILITY. ACCESS DOORS SHALL BE A MINIMUM OF 24" IN THE LONGEST DIMENSION.
 - CONTRACTOR SHALL CHANGE FILTERS IN ALL AIR MOVING EQUIPMENT REQUIRING SUCH AFTER ALL WORK HAS BEEN COMPLETED AND PRIOR TO AIR BALANCE. FILTERS SHALL BE RECOMMENDED BY THE SPECIFIC EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
 - DOUBLE THICKNESS INSULATED ACCESS DOORS SHALL BE PROVIDED AT ALL FIRE DAMPERS FOR ACCESS TO RUSKIN LINK. DOOR SHALL BE SIZED TO ALLOW FOR EASY SERVICE AND ACCESSIBILITY. ACCESS DOORS SHALL BE A MINIMUM OF 24" IN THE LONGEST DIMENSION.
 - LETTERS.
 - PRIOR TO AIR BALANCING, ALL DUCTWORK SHALL BE CAREFULLY INSPECTED FOR LEAKS. ALL DUCTWORK SHALL BE SEALED AIR-TIGHT WITH PREMIUM QUALITY DUCT SEALANT AND SUPPLEMENTAL MATERIALS AND METHODS PER SHACMA AND INDUSTRY STANDARDS.
 - AN INDEPENDENT "LAB" OR "NESS" CERTIFIED AIR BALANCE CONTRACTOR SHALL TEST AND BALANCE THE SYSTEM. ALL AIR QUANTITIES SHALL BE WITHIN -5% AND +5% OF THE DESIGN VALUES. CONTRACTOR SHALL PROVIDE ANY SWEAVE CHANGES REQUIRED ON ANY OF THE AIR MOVING EQUIPMENT. THE BALANCE CONTRACTOR SHALL FURNISH THE OWNER'S AUTHORIZED REPRESENTATIVE WITH TWO COPIES OF A CERTIFIED AIR BALANCE REPORT PRIOR TO PROJECT ACCEPTANCE.

H.V.A.C. General/Drawing Notes

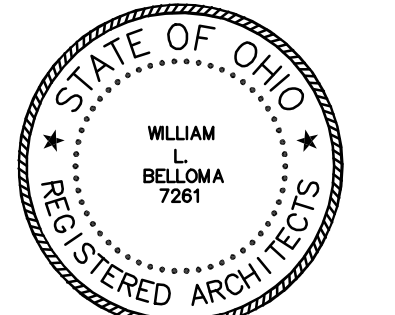
- ALL H.V.A.V. LAYOUT SHOWN THIS DRAWING ARE SCHEMATIC REPRESENTATION OF THE REQUIRED H.V.A.C. WORK. THE LAYOUT, "LOCATION/ARRANGEMENT, AND SIZING" MAY VARY DUE TO EXISTING FIELD CONDITIONS ENCOUNTER AT THE TIME OF CONSTRUCTION. FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, ETC. OF ALL EXISTING H.V.A.C. SERVICES AND CONNECTIONS. MODIFY DESIGN AS REQ'D. TO MATCH ACTUAL FIELD CONDITIONS.
- ALL HVAC WORK SHALL BE IN ACCORDANCE WITH LOCAL, STATE (O.B.C.), NATIONAL (ASHRA STANDARDS & SMACNA STANDARDS) CODES/REQUIREMENTS.

H.V.A.C. Legend

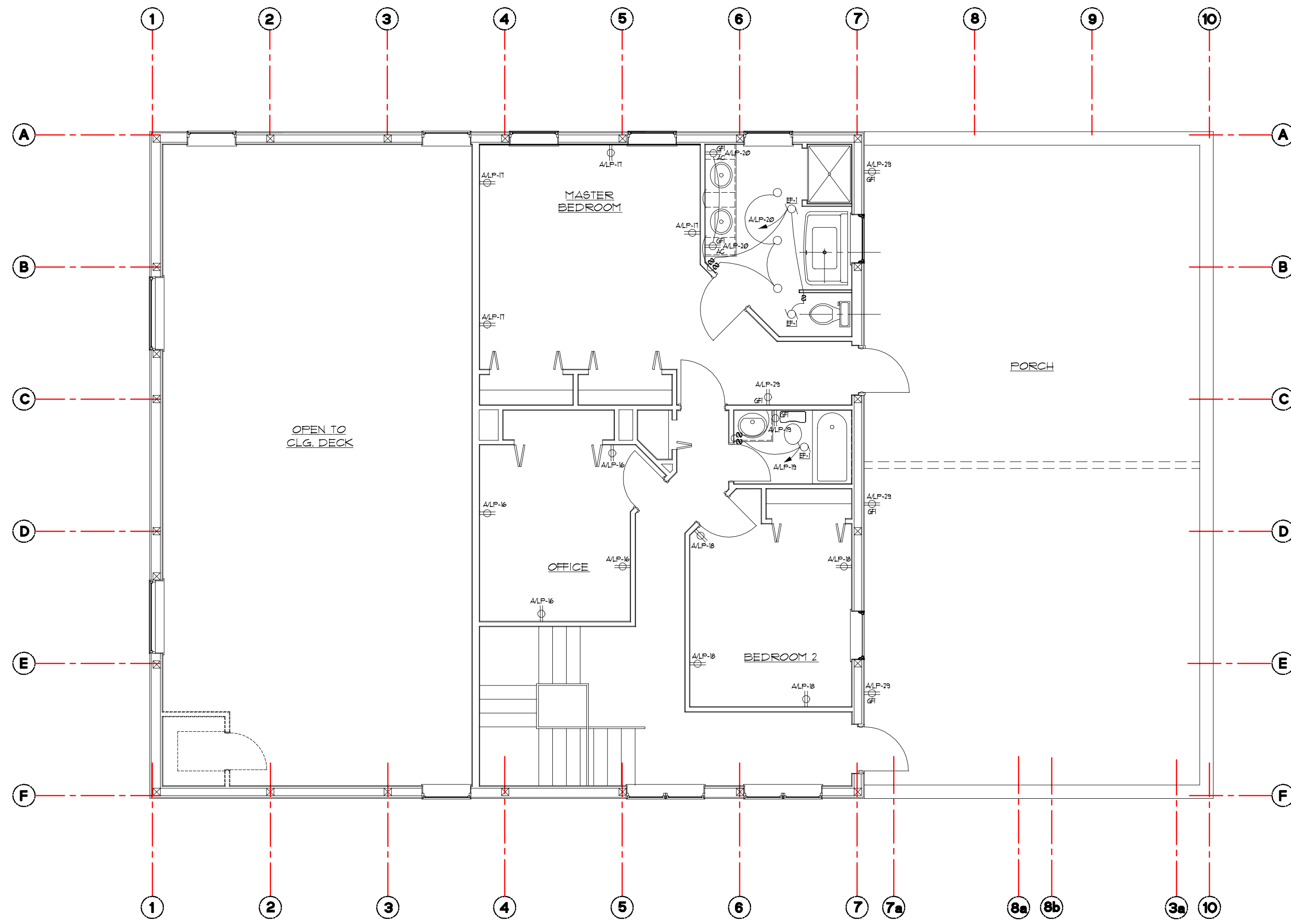
- SUPPLY AIR/DIFFUSER
- RETURN AIR EGG CRATE
- THERMOSTAT (SENSOR)
- ROOF MOUNTED EXHAUST FAN

Belloma Consulting
 8822 Canal Blvd. #450 North Olm. OH 44133
 Copyright 1998 WLB Architect.
 This drawing or any part thereof shall not be reproduced or modified without the consent of WLB Architect.

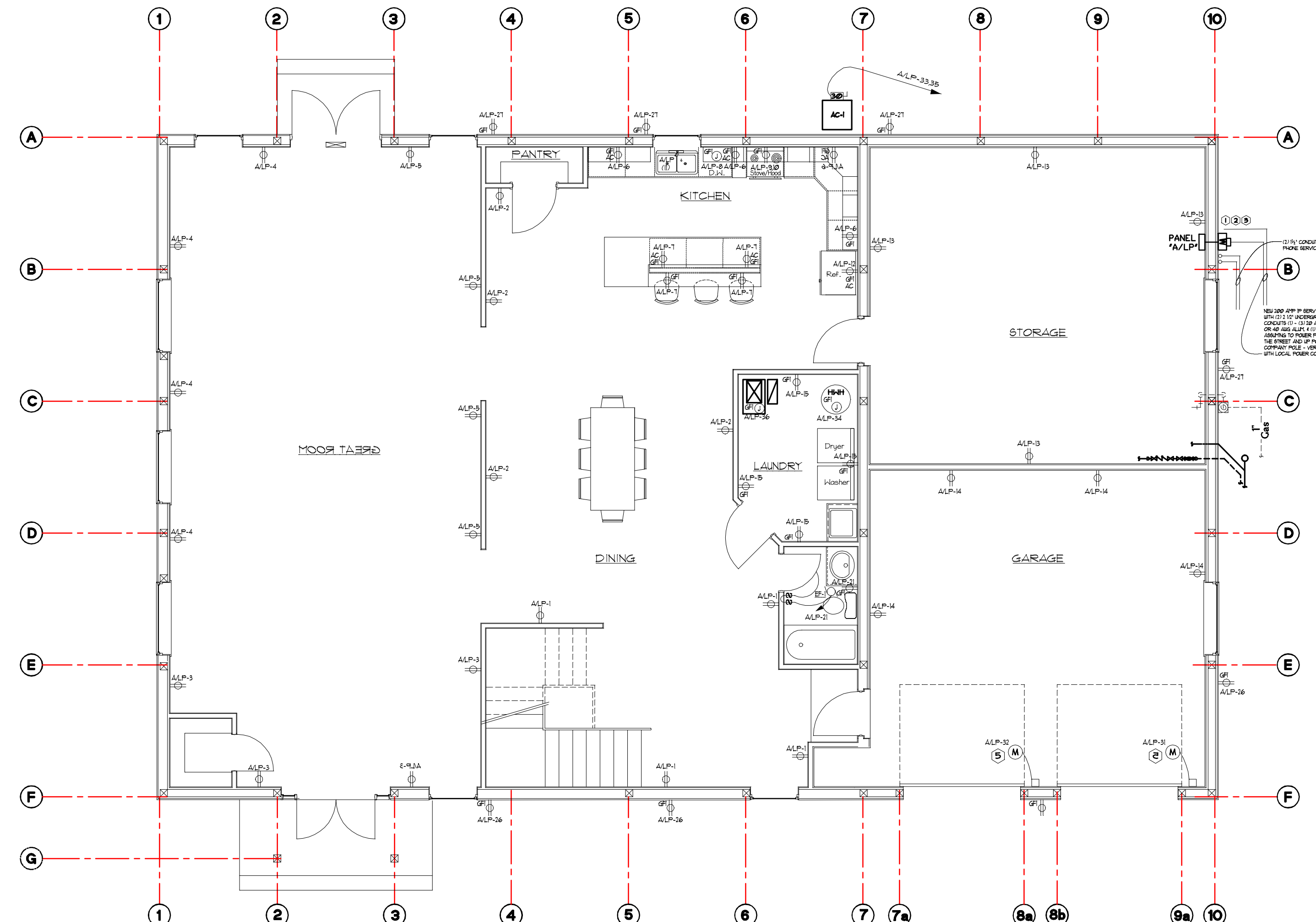
DWG. NO. **MEP-3**
 DATE **March 31, 2026**
 REVISION _____



William Belloma #8307261
Expiration Date 12/31/27



2nd. Floor Electrical Power Plan
3/16" = 1'-0" NORTH



1st. Floor Electrical Power Plan
3/16" = 1'-0" NORTH

Fixture and Symbol Legend

as Applicable

- FAN WITH 4 LIGHTS BY HUNTER OR EQUAL AS SELECTED BY OWNER.
- DIMMABLE RECESSED CAN FIXTURES
- BATHROOM LIGHT FIXTURE SELECTED BY OWNER
- SURFACE OR RECESSED CEILING FIXTURE
- EXTERIOR FLOOD AND/OR ORNAMENTAL LIGHT FIXTURE AS SELECTED BY OWNER
- 110 CFM EXHAUST FAN WITH LIGHT - SEE HVAC SPECS.

NEW "ACUTY" 1'-3" x 3'-8" FIXTURE, 4" PENDANT MOUNTED ASSEMBLY, 120-277 VOLT, BY "ACUTY" DIVISION OF LITHONIA OR EQUAL AS SELECTED BY OWNER/ARCHITECT MODEL # 1B1S1-9000LM-SD080-MD-MVOLT-6210-40K-80CRI

GENERAL NOTE:
THE ABOVE FIXTURES ARE A GENERIC INDICATION FINAL SELECTION TO BE DETERMINED AT THE TIME OF CONSTRUCTION AS SELECTED BY OWNER.

- 20 AMP ARC-FAULT GROUNDING TYPE DUPLEX RECEPTACLE FLUSH MOUNTED 10" A.F.F. UNLESS OTHERWISE NOTED.
- 20 AMP SINGLE POLE SWITCH
- 20 AMP DIMMABLE SWITCH
- 20 AMP THREE (3) WAY OR FOUR (4) WAY SWITCH
- STANDARD TELEPHONE/CAT 6e DATA OUTLET FLUSH MOUNTED 10" A.F.F. UNLESS OTHERWISE NOTED. (C-CABLE) (W-HALL PHONE) ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 3/4" C. WITH FULL WIRE - TYPICAL

- JUNCTION BOX FOR HARD-WIRING EQUIPMENT - SEE ELECTRICAL PLANS DWGS E-1 & E-2.
- COMBINATION PHOTOELECTRIC/CARBON MONOXIDE SMOKE DETECTOR WITH BATTERY BACK-UP HARD-WIRED TO PRIMARY ELECTRICAL PANEL - SEE ELECT. DWGS E-1 & E-2.

WIRE SIZES AS INDICATED ON PLAN (#12 AWG COPPER MIN). WIRING SHALL BE PLASTIC JACKET/COATING TYPE "ROMEX" RUN IN WALLS OR ABOVE CEILING WITH A GROUND WIRE IN EACH CIRCUIT, TYPICAL.

- AC INDICATES ELECTRICAL DEVICE TO BE MOUNTED ABOVE COUNTER.
- GFI INDICATES ELECTRICAL DEVICE TO BE GROUND FAULT INTERRUPTER.
- W.P. INDICATES ELECTRICAL DEVICE TO BE WEATHER-PROOF.
- XX-X INDICATES NEW ELECTRICAL PANEL BOX WITH 42 CIRCUIT BREAKER CAPACITY
- S FIXTURE WITH OCCUPANCY SENSOR

Electrical Notes:

- 1 NEW 200A/120/240/1X125 WEATHERPROOF ENCLOSED C.B. GROUNDED WITH 3/4" COPPER ROD TO NEW STRUCTURE'S MAIN PANELBOX.
- 2 NEW 200 AMP O.E. METER BASE SERVICE MAST AND WEATHER HEAD PER ONE LINE DIAGRAM - VERIFY WITH LOCAL ELECTRIC COMPANY.
- 3 NEW THREE (3) UNDERGROUND PVC CONDUIT TO EXISTING ELECTRIC POWER POLE PER LOCAL ELECTRIC COMPANY REQUIREMENTS.
- 4 ALL EQUIPMENT CONNECTIONS TO JUNCTION BOX SHALL BE PER MANUFACTURER REQUIREMENTS. (JUNCTION BOX TO BE MIN. 6" x 6")
- 5 TWO (2) 20 AMP CIRCUIT FOR OVERHEAD DOOR OPERATION INDICATED AS SCHEMATIC REPRESENTATION. VERIFY LOCATION WITH OWNER AND DOOR MANUFACTURER FOR FINAL LOCATION.

GENERAL NOTES:

1. NEW 10/120/240 SERVICE TO BE INSTALLED FOR POWER AND LIGHTING LAYOUT DESIGN INDICATED ON ELECTRICAL DRAWINGS. THE ELECTRICAL LAYOUT INDICATED THIS DWG ARE SCHEMATIC. THE FINAL LAYOUT MAY VARY DUE TO EXISTING CONDITIONS AND ACTUAL EQUIPMENT/DEVICES SELECTED DURING CONSTRUCTION BY OWNER.
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL, STATE (O.B.C.), NATIONAL (NEC 2023) CODES/REQUIREMENTS.
3. ALL 20 AMP BREAKERS SHALL USE #12 WIRE. 30 AMP BREAKERS #10 WIRE & 60 AMP BREAKERS #6 WIRE PER N.E.C. 2017
4. ALL EMERGENCY/EXIT LIGHTS SHALL BE ON SAME BRANCH CIRCUIT AS NORMAL LIGHTING CONFORMING TO N.E.C. 2017
5. VERIFY WITH ELECTRIC COMPANY SERVICE TO BE PROVIDED SHALL BE 10/120/240, IF 10/120/208 SERVICE MAIN BREAKER MUST BE 400 AMP

Electrical Drawing Note:

ALL ELECTRICAL DEVICES AND WIRING SHOWN THIS DRAWING ARE SCHEMATIC REPRESENTATION OF THE REQUIRED ELECTRICAL WORK. THE FINAL LOCATION AND ARRANGEMENT MAY VARY DUE TO EXISTING FIELD CONDITIONS ENCOUNTER AT THE TIME OF CONSTRUCTION. FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, ETC. OF ALL EXISTING UTILITY SERVICES AND CONNECTIONS. MODIFY DESIGN AS REQ'D. TO MATCH ACTUAL FIELD CONDITIONS.

Smoke Dectector Legend:

- SMOKE DETECTOR WITH BATTERY BACK-UP HARD-WIRED TOGETHER TO PRIMARY ELECTRICAL PANEL LOCATED IN BASEMENT TYPICAL.
- CO = CARBON MONOXIDE & PHOTOELECTRIC DETECTOR ALL OTHERS = PHOTOELECTRIC DETECTOR

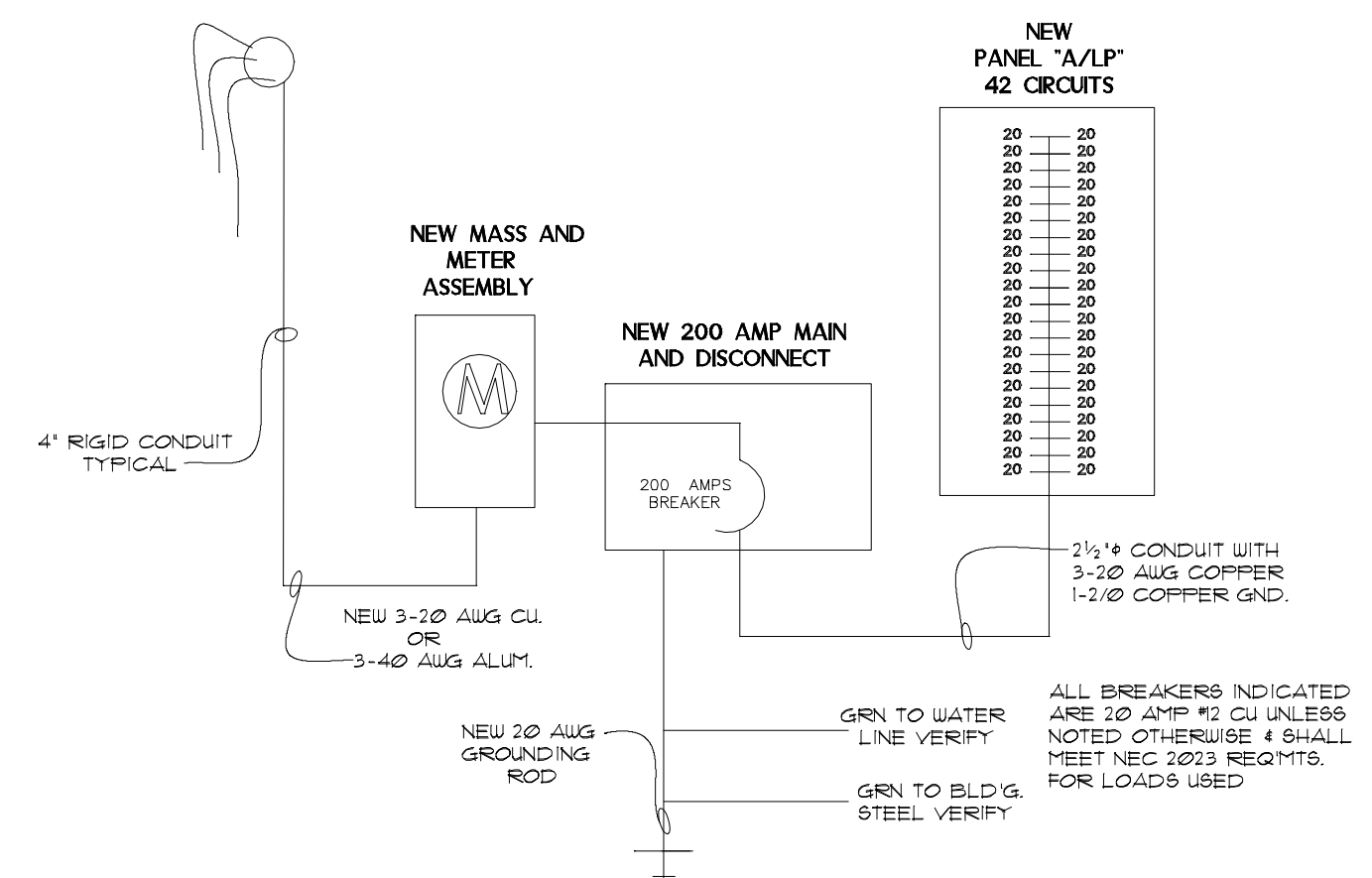
NEW PANEL 'A/LP'

DINING RECEPTACLES	1200 WATTS	1	2	1200 WATTS	DINING RECEPTACLES
GREAT RM. RECEPTACLES	1200 WATTS	3	4	1200 WATTS	GREAT RM. RECEPTACLES
GREAT RM. RECEPTACLES	1200 WATTS	5	6	1200 WATTS	KITCHEN RECEPTACLES
KITCHEN RECEPTACLES	1200 WATTS	7	8	200 WATTS	DISHWASHER
OVEN/STOVE	300 WATTS	9	10	500 WATTS	ZLINE HOOD/EXHAUST FAN
OPTIONAL DISPOSAL	200 WATTS	11	12	500 WATTS	REFRIGERATOR
STORAGE RECEPTACLES	1200 WATTS	13	14	1200 WATTS	GARAGE RECEPTACLES
LAUNDRY RECEPTACLES	1200 WATTS	15	16	1200 WATTS	BEDROOM #5 RECEPTACLES
MASTER BEDROOM RECEPTACLES	1200 WATTS	17	18	1200 WATTS	BEDROOM #6 RECEPTACLES
2nd. FLR. BATH RM. POWER/LIGHT'G.	1200 WATTS	19	20	1200 WATTS	MASTER BATH RM. POWER/LIGHT'G.
1st. FLR. BATH RM. POWER/LIGHT'G.	1200 WATTS	21	22	150 WATTS	KITCHEN LIGHTING
1st. FLR./2nd. FLR. HALL LIGHTING & FAN	1200 WATTS	23	24	1000 WATTS	2nd. FLR. BEDRM'S. LIGHTING/FANS
GREAT RM. LIGHTING	1000 WATTS	25	26	FUTURE	SPARE
1st. FLR. EXTERIOR RECEPTACLE	1200 WATTS	27	28	FUTURE	SPARE
2nd. FLR. EXTERIOR RECEPTACLES	1200 WATTS	29	30	FUTURE	1st./2nd. FLR. EXTERIOR LIGHTING
OH DOOR POWER	191 WATTS	31	32	191 WATTS	OH DOOR POWER
CONDENSER	314 WATTS	33	34	200 WATTS	HOT WATER HEATER (HWH)
CONDENSER	314 WATTS	35	36	125 WATTS	FURNACE (FN-1)
SPARE	FUTURE	37	38	FUTURE	SPARE
SPARE	FUTURE	39	40	FUTURE	SPARE
SPARE	FUTURE	41	42	FUTURE	SPARE

ΦA = 18,464 W
ΦB = 15,608 W
T = 34,072 W = 141.97 AMPS

PANEL 'A/LP' (NEW)
120/240V-1Ø-3W-GND-BUS SURFACE MOUNTED, 200 AMP MAIN/BREAKER (ALL BRANCH CIRCUIT BREAKERS SHALL BE 20 AMP, 1 POLE UNLESS OTHERWISE NOTED)

* INDICATES BRANCH CIRCUIT BREAKER TO HAVE LOCK-DOG INSTALLED ON BRANCH BY ELECTRICAL CONTRACTOR



One Line Diagram

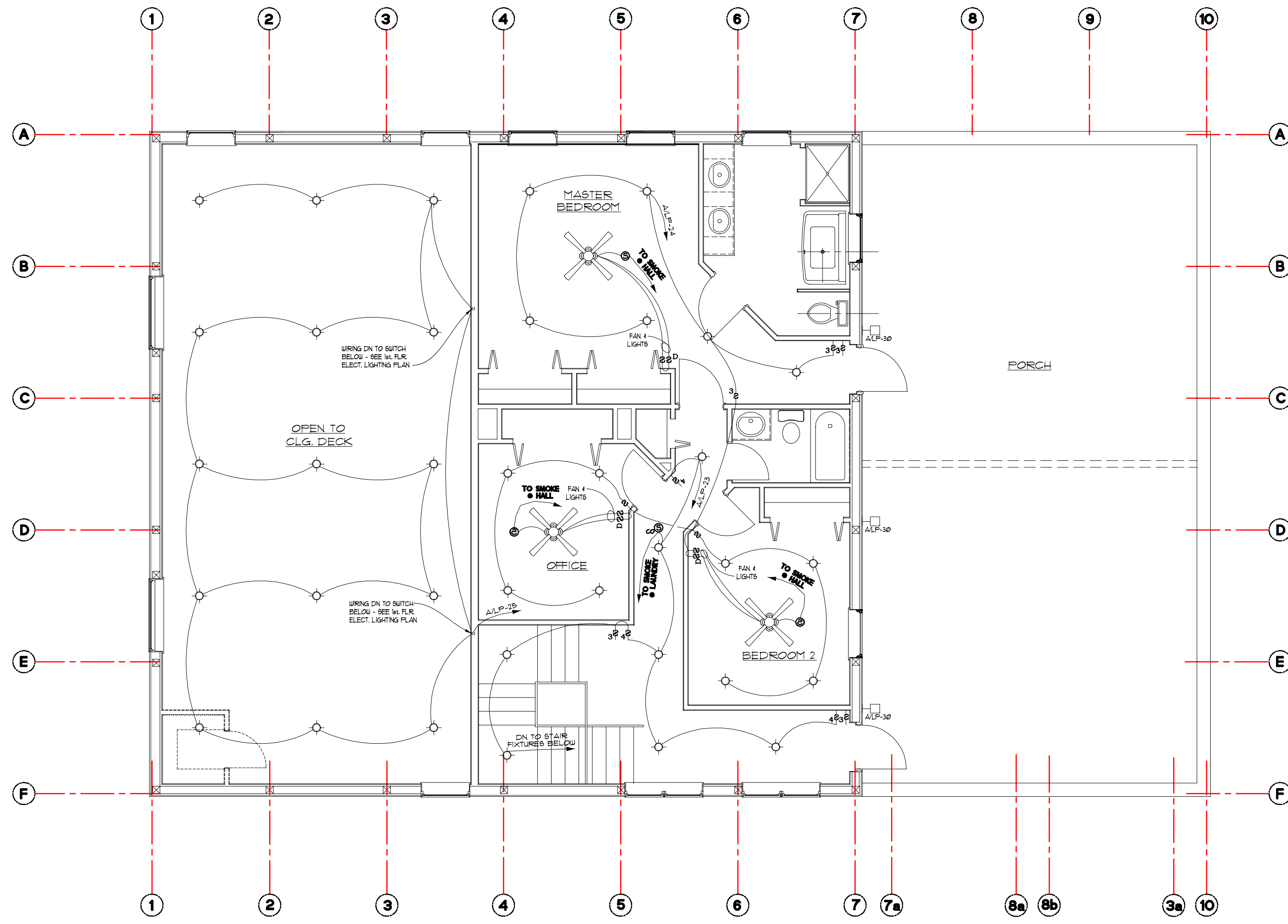
NOT SCALE

Belloma Consulting
8822 Canal Blvd. Hill Spgs. Oh 44881 432890-9000
Copyright 1999 WLB Architect
This drawing or any part thereof shall not be reproduced or modified without the consent of WLB Architect.

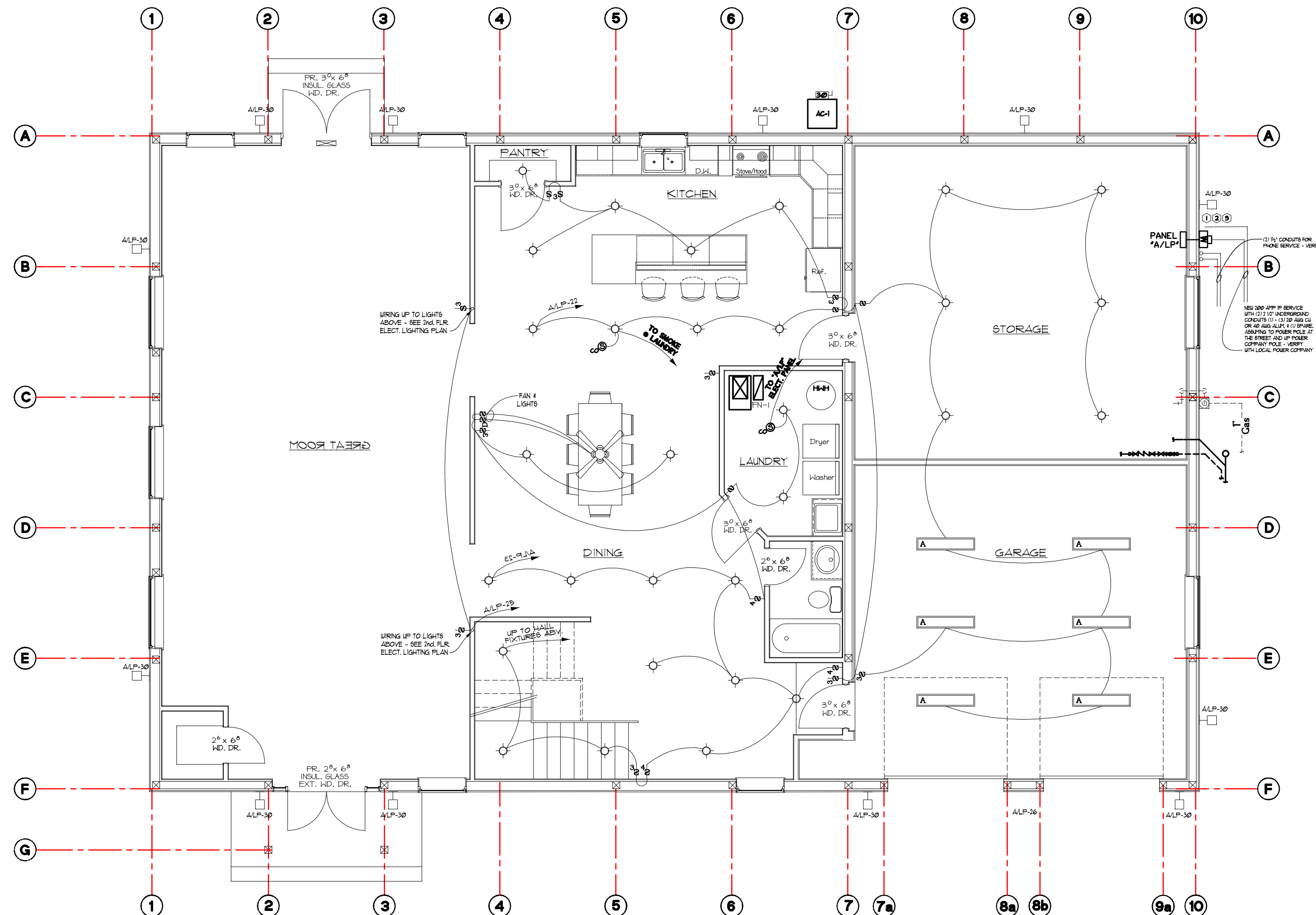
DWG. NO. **MEP-4**
DATE **March 31, 2026**
REVISION _____



William Belloma #8307261
Expiration Date 12/31/27



2nd. Floor Electrical Lighting Plan
3/16" = 1'-0" NORTH



1st. Floor Electrical Lighting Plan
3/16" = 1'-0" NORTH

Fixture and Symbol Legend

as Applicable

- FAN WITH 4 LIGHTS BY HUNTER OR EQUAL AS SELECTED BY OWNER.
- DIMMABLE RECESSED CAN FIXTURES
- BATHROOM LIGHT FIXTURE SELECTED BY OWNER
- SURFACE OR RECESSED CEILING FIXTURE
- EXTERIOR FLOOD AND/OR ORNAMENTAL LIGHT FIXTURE AS SELECTED BY OWNER
- 110 CFM EXHAUST FAN WITH LIGHT - SEE HVAC SPECS.

NEW "ACUTY" 1'-3" x 3'-8" FIXTURE, 4" PENDANT MOUNTED ASSEMBLY, 120-277 VOLT, BY "ACUTY" DIVISION OF LITHONIA OR EQUAL AS SELECTED BY OWNER/ARCHITECT MODEL # 1B1ST-9000LM-SD080-MD-MVOLT-6210-40K-80CRI

GENERAL NOTE:
THE ABOVE FIXTURES ARE A GENERIC INDICATION FINAL SELECTION TO BE DETERMINED AT THE TIME OF CONSTRUCTION AS SELECTED BY OWNER.

- 20 AMP ARC-FAULT GROUNDING TYPE DUPLEX RECEPTACLE FLUSH MOUNTED 10" A.F.F. UNLESS OTHERWISE NOTED.
- 20 AMP SINGLE POLE SWITCH
- 20 AMP DIMMABLE SWITCH
- 20 AMP THREE (3) WAY OR FOUR (4) WAY SWITCH
- STANDARD TELEPHONE/CAT 6 DATA OUTLET FLUSH MOUNTED 10" A.F.F. UNLESS OTHERWISE NOTED. (C-CABLE) (W-HALL PHONE) ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 3/4" C. WITH FULL WIRE - TYPICAL
- JUNCTION BOX FOR HARD-WIRING EQUIPMENT - SEE ELECTRICAL PLANS DWGS E-1 & E-2.
- COMBINATION PHOTOELECTRIC/CARBON MONOXIDE SMOKE DETECTOR WITH BATTERY BACK-UP HARD-WIRED TO PRIMARY ELECTRICAL PANEL - SEE ELECT. DWGS E-1 & E-2.
- WIRE SIZES AS INDICATED ON PLAN (#12 AWG COPPER MIN). WIRING SHALL BE PLASTIC JACKET/COATING TYPE "ROMEX" RUN IN WALLS OR ABOVE CEILING WITH A GROUND WIRE IN EACH CIRCUIT, TYPICAL.

- AC INDICATES ELECTRICAL DEVICE TO BE MOUNTED ABOVE COUNTER.
- GFI INDICATES ELECTRICAL DEVICE TO BE GROUND FAULT INTERRUPTER.
- W.P. INDICATES ELECTRICAL DEVICE TO BE WEATHER-PROOF.
- XX-X INDICATES NEW ELECTRICAL PANEL BOX WITH 42 CIRCUIT BREAKER CAPACITY
- S FIXTURE WITH OCCUPANCY SENSOR

Electrical Notes:

- 1 NEW 200A/120/240/1X325 WEATHERPROOF ENCLOSED C.B. GROUNDED WITH 3/4" COPPER ROD TO NEW STRUCTURE'S MAIN PANELBOX.
- 2 NEW 200 AMP O.E. METER BASE SERVICE MAST AND WEATHER HEAD PER ONE LINE DIAGRAM - VERIFY WITH LOCAL ELECTRIC COMPANY.
- 3 NEW THREE (3) UNDERGROUND PVC CONDUIT TO EXISTING ELECTRIC POWER POLE PER LOCAL ELECTRIC COMPANY REQUIREMENTS.
- 4 ALL EQUIPMENT CONNECTIONS TO JUNCTION BOX SHALL BE PER MANUFACTURER REQUIREMENTS. (JUNCTION BOX TO BE MIN. 6" x 6")
- 5 TWO (2) 20 AMP CIRCUIT FOR OVERHEAD DOOR OPERATION INDICATED AS SCHEMATIC REPRESENTATION. VERIFY LOCATION WITH OWNER AND DOOR MANUFACTURER FOR FINAL LOCATION.

GENERAL NOTES:

1. NEW 10 120/240 SERVICE TO BE INSTALLED FOR POWER AND LIGHTING LAYOUT DESIGN INDICATED ON ELECTRICAL DRAWING. THE ELECTRICAL LAYOUT INDICATED THIS DIAG ARE SCHEMATIC. THE FINAL LAYOUT MAY VARY DUE TO EXISTING CONDITIONS AND ACTUAL EQUIPMENT/DEVICES
2. ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL, STATE SELECTED DURING CONSTRUCTION BY OWNER.
3. ALL 20 AMP BREAKERS SHALL USE #12 WIRE. 30 AMP BRAEKERS (O.B.C.), NATIONAL (NEC 2023) CODES/REQUIREMENTS.
4. ALL EMERGENCY/EXIT LIGHTS SHALL BE ON SAME BRANCH CIRCUIT #10 WIRE & 60 AMP BREAKERS #6 WIRE PER N.E.C. 2017
5. VERIFY WITH ELECTRIC COMPANY SERVICE TO BE PROVIDED SHALL BE #12 BONDING, EIGHT (8) 20 AMP BREAKERS MAIN BREAKER MUST BE 400 AMP

Electrical Drawing Note:

ALL ELECTRICAL DEVICES AND WIRING SHOWN THIS DRAWING ARE SCHEMATIC REPRESENTATION OF THE REQUIRED ELECTRICAL WORK. THE FINAL LOCATION AND ARRANGEMENT MAY VARY DUE TO EXISTING FIELD CONDITIONS ENCOUNTER AT THE TIME OF CONSTRUCTION. FIELD VERIFY EXACT LOCATIONS, ELEVATIONS, ETC. OF ALL EXISTING UTILITY SERVICES AND CONNECTIONS. MODIFY DESIGN AS REQD. TO MATCH ACTUAL FIELD CONDITIONS.

Smoke Dectector Legend:

- SMOKE DETECTOR WITH BATTERY BACK-UP HARD-WIRED TOGETHER TO PRIMARY ELECTRICAL PANEL LOCATED IN BASEMENT TYPICAL.
- CO = CARBON MONOXIDE & PHOTOELECTRIC DETECTOR ALL OTHERS = PHOTOELECTRIC DETECTOR

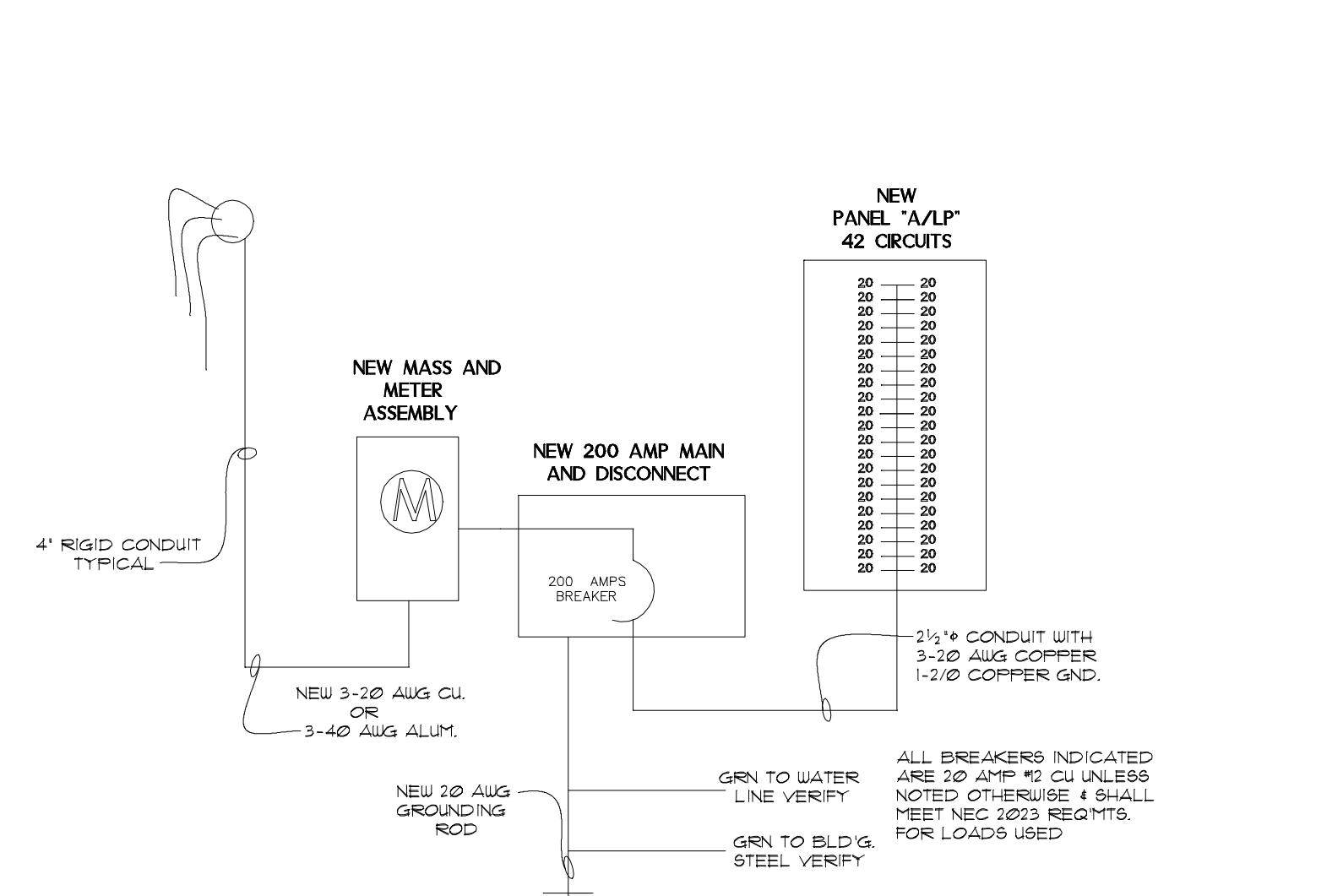
NEW PANEL 'ALP'

DINING RECEPTACLES	1200 WATTS	1	2	1200 WATTS
GREAT RM. RECEPTACLES	1200 WATTS	3	4	1200 WATTS
GREAT RM. RECEPTACLES	1200 WATTS	5	6	1200 WATTS
KITCHEN RECEPTACLES	1200 WATTS	7	8	200 WATTS
OVEN/STOVE	3000 WATTS	9	10	500 WATTS
OPTIONAL DISPOSAL	200 WATTS	11	12	500 WATTS
STORAGE RECEPTACLES	1200 WATTS	13	14	1200 WATTS
LAUNDRY RECEPTACLES	1200 WATTS	15	16	1200 WATTS
MASTER BEDROOM RECEPTACLES	1200 WATTS	17	18	1200 WATTS
2nd. FLR. BATH RM. POWER/LIGHT.G.	1200 WATTS	19	20	1200 WATTS
1st. FLR. BATH RM. POWER/LIGHT.G.	1200 WATTS	21	22	750 WATTS
1st. FLR. 2nd. FLR. HALL LIGHTING & FAN	1200 WATTS	23	24	1000 WATTS
GREAT RM. LIGHTING	1000 WATTS	25	26	FUTURE
1st. FLR. EXTERIOR RECEPTACLE	1200 WATTS	27	28	FUTURE
2nd. FLR. EXTERIOR RECEPTACLE	1200 WATTS	29	30	FUTURE
OH DOOR POWER	791 WATTS	31	32	791 WATTS
CONDENSER	314 WATTS	33	34	800 WATTS
CONDENSER	314 WATTS	35	36	725 WATTS
SPARE	FUTURE	37	38	FUTURE
SPARE	FUTURE	39	40	FUTURE
SPARE	FUTURE	41	42	FUTURE

ΔA = 18,464 W
ΔB = 15,608 W
T = 34,072 W = 141.91 AMP@

PANEL 'ALP' (NEW)
120/240V-1P-3W-GND-BUS
SURFACE MOUNTED 200 AMP MAIN/BREAKER
(ALL BRANCH CIR. BRKR'S SHALL BE 20 AMP-1 POLE UNLESS OTHERWISE NOTED)
INDICATES BRANCH CIRCUIT BREAKER TO HAVE LOCK-DOG INSTALLED ON BRANCH BY ELECTRICAL CONTRACTOR.

One Line Diagram



One Line Diagram
NOT SCALE

Belloma Consulting
8822 Canal Blvd. Ink. Hgts. Oh 44088 44088-0908
Copyright 1999 WLB Architect
This drawing or any part thereof shall not be reproduced or modified without the consent of WLB Architect.

DWG. NO. **MEP-5**
DATE **March 31, 2026**
REVISION _____