

Report Date: July 8, 2026
Docket No. 2026-38

Meeting Date:
July 16, 2026

Location:
1957 Norton Rd

Parcel Number:
3001240

Request:
Variance requests to
construct driveway and
new home in wetlands,
and wetland and stream
corridor setbacks

Applicant:
Matthew Neff

Property Owner:
Bektic Capital
Holdings LLC

Zoning:
D1 – Suburban
Residential
Neighborhood

Case Manager:
Mary Rodack,
Associate Planner

Contents

- Application, 1-22-2026
- Site Plan, 7-02-2026
- Site Photos, 6-30-2026
- Wetland Delineation
10-2025



Location Map, City of Hudson GIS

Request:

The subject of this hearing is a request for four variances in order to fill approximately 293 square feet of wetlands and disturbance within a stream corridor setback for the construction of a driveway and a new home. The variances are:

1. A variance from the prohibited activity of disturbance within stream corridors, wetlands and their setbacks pursuant to section 1207.03(c), “Prohibited Activities” of the City of Hudson Land Development Code.
2. A variance from prohibited activity that would “disturb, remove, fill, drain, dredge, clear, destroy, or alter any area, including vegetation, within a wetland as delineated or would be delineated by the procedures of this section” pursuant to section 1207.03(d)(1) “Compliance with Applicable Federal Wetlands Laws or Regulations” of the City of Hudson Land Development Code.
3. A variance of twenty-seven (27) feet from the required thirty (30) foot stream corridor setback resulting in a three (3) foot setback pursuant to section 1207.03(e)(1)D “Wetland/Stream Corridor Protection – Stream Corridor Setbacks” of the City of Hudson Land Development Code.
4. A variance of fifty (50) feet from the required fifty (50) foot wetlands setback resulting in a setback of zero (0) feet from the delineated edge of the wetlands pursuant to section 1207.03(e)(2), “Setbacks – Wetlands” of the City of Hudson Land Development Code.

The site is adjacent to residential development to the east, west, and south and commercial property to the north.

Project Background

The property is located in District 1 – Suburban Residential Neighborhood and is situated on Norton Rd. The lot is approximately 5.9 acres, and the owners purchased the property in 2025. A single-family house was previously located on the property and demolished in (approximately) 1997. The house was located on the east side of the stream. The property has been vacant since.

The applicant is requesting to construct a new home and driveway along Norton Rd. The City of Hudson's Land Development Code has the following code sections relative to wetlands and stream corridors -

- *1207.03(c) – Wetland/Stream Corridor Protection – Prohibited Activities: No person shall engage in any activity that will disturb, remove, fill, drain, dredge, clear, destroy, or alter any area, including vegetation, within stream corridors, wetlands, and their setbacks, except as may be expressly allowed in this Code.*
- *1207.03(d)(1) – Compliance with Applicable Federal Wetlands Laws or Regulations: No person shall engage in any activity that will disturb, remove, fill, drain, dredge, clear, destroy, or alter any area, including vegetation, within a wetland as delineated or would be delineated by the procedures of this section, except as may be expressly allowed by this Code.*
- *1207.03(e)(1)D – Wetland/Stream Corridor Protection – Stream Corridors: All buildings, accessory structures, parking lots, grading and clearing shall be set back from the ordinary high-water mark of stream corridors. The minimum setback widths are: Thirty feet on each side of all streams draining an area less than 0.05 square miles (thirty-two acres).*
- *1207.03(e)(2) – Wetland/Stream Corridor Protection – Wetlands: All buildings, accessory structures, and parking areas or lots shall be set back at least fifty feet horizontally (map distance), from the delineated edge of a wetland.*

The applicant is requesting a variance of twenty-seven (27) feet from the required thirty (30) foot stream corridor setback resulting in a setback of three (3) feet from the ordinary high-water mark of the stream in order to construct a driveway and a new home.

Additionally, the applicant is requesting to fill approximately 293 square feet of the wetland in order to construct a driveway and new home on the property creating a zero (0) foot setback from the delineated edge of the wetland.

The property owners obtained the attached Wetland Delineation in October 2025 for parcel #3001240. The Wetland Delineation provided by HZW Environmental Consultants details the wetlands and streams on the property.

Figure 1 shows the proposed encroachment into the 30ft stream corridor. The blue highlighted section is the 30ft stream corridor setback, and the red line is the proposed placement of the silt fence, which represents the limits of disturbance.

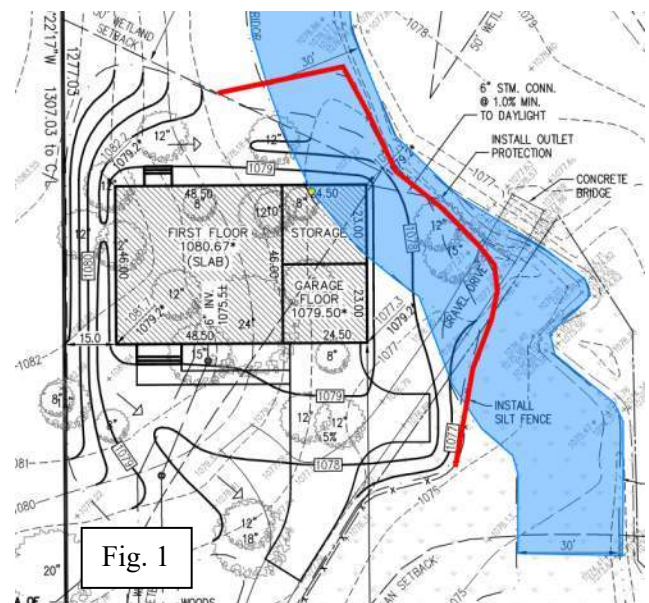
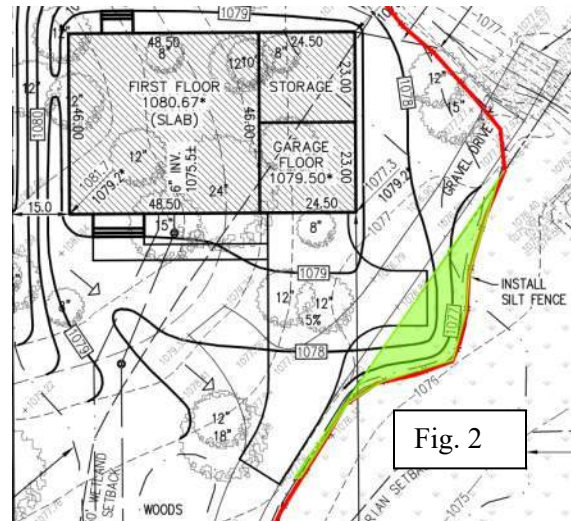


Figure 2 depicts the area of the wetlands the applicant is proposing to fill in order to construct a driveway and new home. The green highlighted section is the wetlands, and the red line is the proposed placement of the silt fence/limits of disturbance.

According to the city's archival GIS imagery, a house and shed were demolished on the property between 1996 and 2000. The property has been vacant for over 25 years. The gravel driveway that was used to access the property would be repurposed for the proposed home.



Considerations

Section 1204.03 of the Land Development Code describes the standards for review of variance requests. These standards are listed below, along with staff findings to assist in your determination. All findings are subject to additional testimony presented to the Board during the public hearing:

1. Whether the property in question will yield a reasonable return or whether there can be any beneficial use of the property without the variances:

Due to multiple wetlands and streams on the property, it would be difficult for the property to yield a reasonable return or have beneficial use without any variance. The applicant could reduce the size of the proposed home and driveway to reduce the requested variances and the impacts on the stream corridors, wetlands and their setbacks.

2. Whether the variance is substantial:

Stream corridor setback

The variance would represent a 90% deviation from the code requirement.

Wetland setback

The variance would represent a 100% deviation from the code requirement.

Prohibited activity of disturbance within protected areas

Staff notes the lot is generally wooded. The applicant should provide documentation/testimony on the extent of vegetation that is proposed to be removed within the stream corridor, wetland and its setback. The applicant should document any significant trees proposed to be removed within the stream corridor and wetland setback.

3. Whether the essential character of the neighborhood would be substantially altered or whether adjoining properties would suffer a substantial detriment as a result of the variances:

Staff notes the following:

- The lot is approximately 5.9 acres and is situated along W Streetsboro St.
- HZW Consultants determined both Wetland A and Wetland B are non-isolated wetlands, which means they would be regulated by the U.S Army Corps of Engineers. The proposed home and driveway would encroach only into Wetland A.
- Wetland A comprises of .54 acres, and the proposed home and driveway are approximately 83 feet away from Wetland B.

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- The proposed house is 193 feet away from Norton Rd. The proposed site plan would comply with other applicable dimensional requirements, including the minimum side yard setback of 15 feet for District 1.
- Staff notes the applicant attended multiple informal design meetings with the AHBR. The exterior design has been significantly altered to address the AHBR's comments. The AHBR is acceptable to the proposed front yard setback as stipulated in Section 1205.04(d)(5)(A)(2).
- Question the category of the wetlands on the property as identification would aid in determining impacts to wetlands and their setbacks.

4. Whether the variance would adversely affect the delivery of governmental services such as water and sewer:

The variances would not adversely affect the delivery of governmental services.

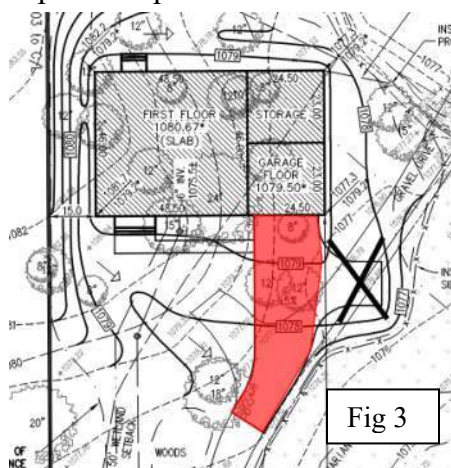
5. Whether the applicant purchased the property with knowledge of the requirements.

The current setback requirements and stream corridor regulations were in place when the property owners purchased the property in 2025.

6. Whether the applicant's predicament can be obviated feasibly through some method other than a variance:

Staff notes the following:

- Due to the wetlands and streams on the property, it would be difficult to build a single-family residence on the site without any variance.
- The proposed home has a footprint of approximately 3,350 square feet. The square footage of the proposed home should be reduced to minimize the impact to the wetland and stream corridor.
- The applicant should revise the site plan to remove the request to fill the wetlands. Staff notes there has been very little precedent for the BZBA approving wetland fill.
- Question if turnaround in the driveway could be revised to reduce the limits of disturbance. Figure 3 depicts the potential revision.



7. Whether the spirit and intent behind the requirement would be observed and substantial justice done by granting the variance.

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The Board of Zoning and Building Appeals shall weigh the above factors along with given testimony in order to make this determination.

Additional Considerations

Section 1204.03 of the Land Development Code describes the standards for review of variance requests. All findings are subject to additional testimony presented to the Board during the public hearing:

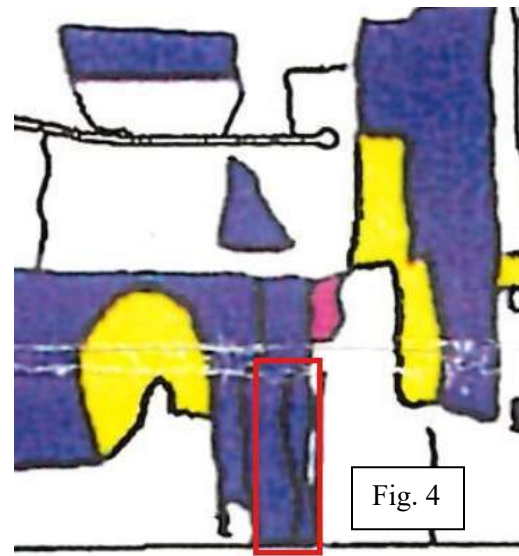
- B. No variance shall be granted if the submitted conditions or circumstances affecting the applicant's property are of so general or recurrent a nature as to make reasonably practicable the formulation of a general regulation for such conditions or situations.**

Not applicable

- C. No variance shall be granted if doing so will have the potential to reduce the level of ecological integrity from the existing level to a lesser level as shown on any of the individual metrics or the undeveloped composite set forth in Appendix B to this Code, unless substantially mitigated.**

The Index of Ecological Integrity (IEI) was created for the City of Hudson in 1996 using a numerical rating system for undeveloped and developed land. The rating system was based off of various metrics which combined to a total score defining the ecological quality of an area.

The proposed site has a score of 10-13 which is the second highest score given in the study. A higher score given to a parcel indicates a higher quality ecological area. Figure 3 depicts the parcel as shown on the IEI map found in Chapter 1213 Appendix B. – Index of Ecological Integrity (IEI) Individual Metric & Composite Scores. Figure 4 depicts the parcel on the IEI map identified by the red rectangle.



Question if the following should be considered to mitigate potential impacts to this area:

- Substantial native vegetation/buffers
- Sensitive erosion control techniques
- Establishing a conservation easement to ensure additional clearing/construction would not occur

- D. No variance shall be granted reducing the size of lots contained in an existing or proposed subdivision if it will result in an increase in the number of lots beyond the number otherwise permitted for the total subdivision, pursuant to the applicable zone District regulations.**

Not applicable

- E. If authorized, a variance shall represent the least deviation from the regulations that will afford relief.**

The Board of Zoning and Building Appeals shall weigh the above factors along with given testimony in order to make this determination.

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F. In granting such variances, the BZBA may require such conditions as will, in its independent judgment, secure substantially the objectives of the standard so varied or modified.

The Board of Zoning and Building Appeals shall weigh the above factors along with given testimony in order to make this determination

G. Under no circumstances shall the BZBA grant a variance to allow a use not permitted, or a use expressly or by implication prohibited under the terms of this Code for the zone district containing the property for which the variance is sought.

Not applicable

H. No variance shall be granted to the maximum allowed building footprint area of each district's "Property Development/Design Standards" in Chapter 1205.

Not applicable

Additional Approvals

The proposal would also require the following:

- Approval from the U.S. Army Corps of Engineers and the Ohio EPA for filling a wetland.
- A design review with the Architectural and Historic Board of Review.
- Administrative site plan approval.

26-38

Submitted On: Jan 22, 2026

Applicant and Property Owner Information

Type of Hearing Request

Type of Request:	Year Property Purchased
Variance	2025
Code Required Regulation (please indicate feet, s.f. or height)	Requested Variance (please indicate the amount of the variance in feet, s.f. or height)
1207.03 50 foot wetland setback	50 feet
Resulting Set-Back (please indicate feet, s.f. or height)	
zero, existing gravel drive edge is along edge of wetland	
Explanation of Request and Justification:	
There is no other area on the site to build this dwelling and driveway without disturbing the wetland.	

Supplemental Information for Determining Practical Difficulty

The property in question will yield a reasonable return and there can be a beneficial use of the property with the variance because:

The owner wants to build a single family dwelling

The variance is

substantial

Describe why the variance is substantial or insubstantial

If the variance is not granted, the lot would be unbuildable.

Would the essential character of the neighborhood be substantially altered?

no

Explain why the request is the minimum amount necessary to make reasonable use of the property or structure(s):

because there is not another location to build thsi dwelling

Would adjoining properties be negatively impacted?

no

Describe how the adjacent properties will not be affected.

The adjacent lots are very large and the dwellings are quite a distance away.

Will this request adversely affect public services (mail, water, sewer, safety services, etc.)

no

The situation cannot be feasibly solved by means other than a variance. Explain:

without a variance, this lot is unbuildable

The spirit and intent behind the zoning requirement would be observed and substantial justice done by granting the variance. Explain below:

The majority of the lot will remain in its natural state

The circumstance leading to this request was not caused by current owner. It was caused by:

God

List any special circumstances particular to the property/lot (i.e.: exceptional irregularity, narrowness, shallowness or steepness) these circumstances are:

existing wetlands

BZBA Meeting Information

The following persons are authorized to represent this application with respect to all matters associated with the project

Zamir Bektic, Matthew Neff

By checking this box, I do hereby certify that I am authorized to represent the property owner and to accept any conditions that the Board may impose.

true

By checking this box, I do hereby certify that the information to the City of Hudson in and with this application is true and accurate and consents to employees and/or agents of the City of Hudson entering upon the premises of this application for purposes of inspection and verification of information pertaining to the application, and if this application is approved, to verify conformance to requirements and conditions of such approval. I acknowledge that City reviews or approvals do not absolve the subject property from deed restrictions, easements, or homeowner association covenants, restrictions, or regulations regarding structures and uses on the property.

true

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

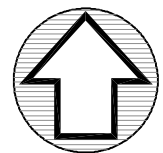
SILT FENCE or SILT SOCK

CONNECTIONS:

A = USE 1" TYPE "K" COPPER

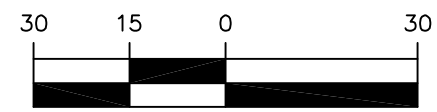
B/C = USE 6" PVC SDR 35 w/ GASKETS
1% MIN., 10% MAX.

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

JULY 2, 2026

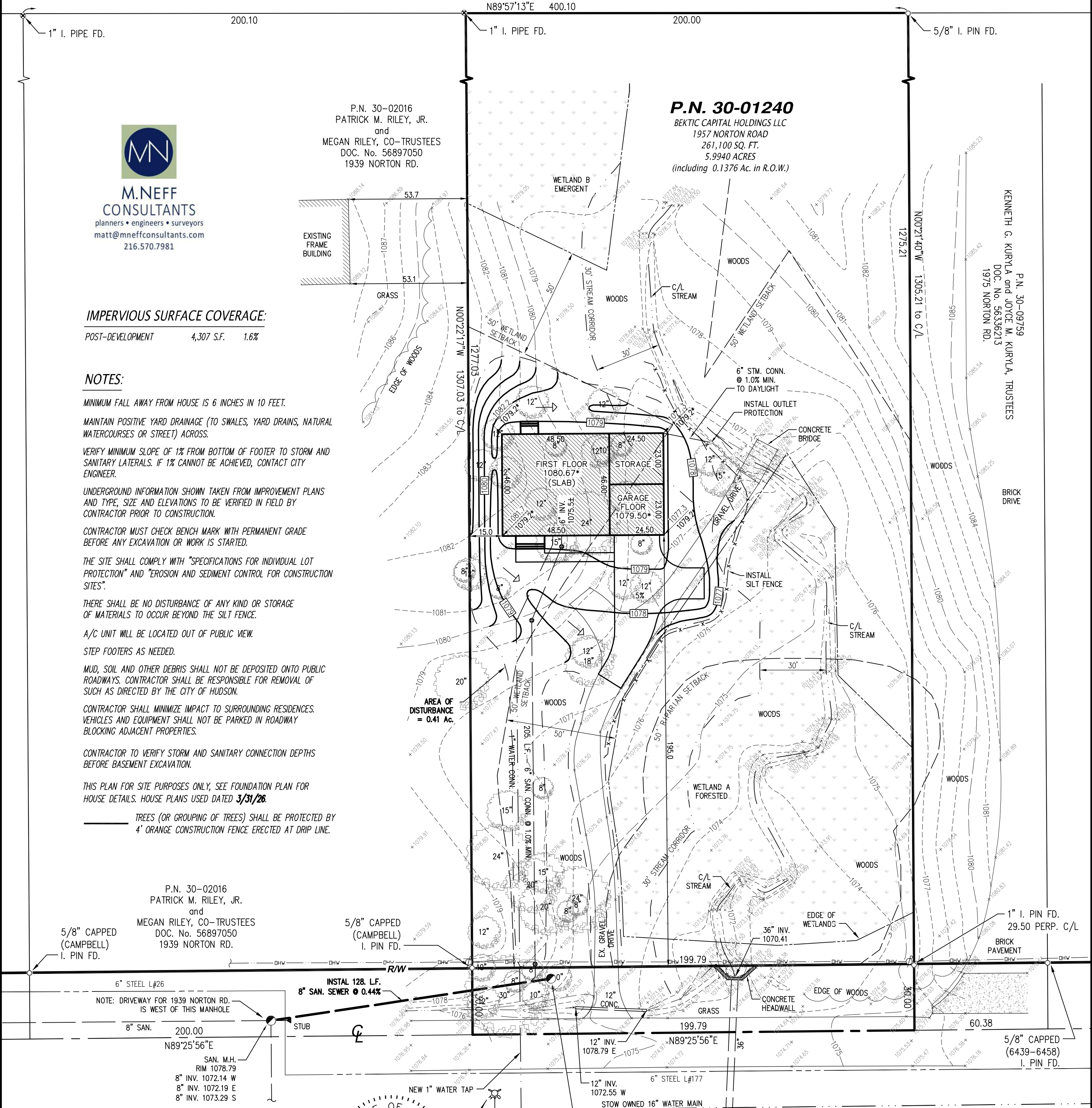
P.N. 30-05948
BUILDON LLC
DOC. No. 56360038
1920 GEORGETOWN RD.

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.)

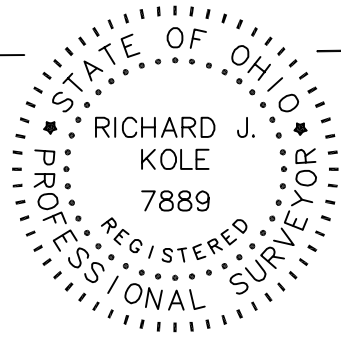
P.N. 30-02016
PATRICK M. RILEY, JR.
and
MEGAN RILEY, CO-TRUSTEES
DOC. No. 56897050
1939 NORTON RD.

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



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. Kule 7/2/26
Richard J. Kule, Reg. Surveyor #7889 Date



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)

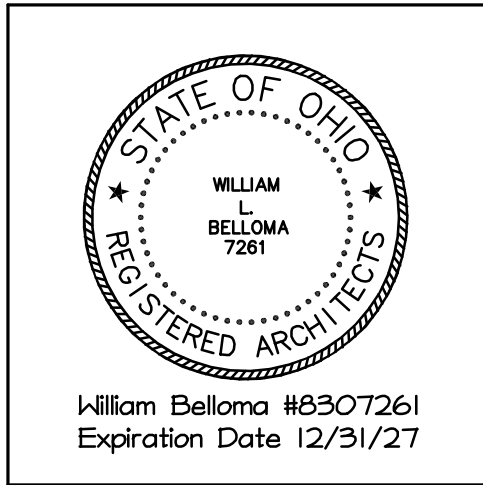
Prepared by:
RIMKOLE & ASSOC. CORP.
surveyors • consultants • planners • utilities • esp
5316 Ridge Road - Cleveland, Ohio 44129
Phone 440.885.7137 - Fax 440.885.7139
www.kolesurvey.com
File No. 25202 SITE

New Resident Building Envelope

for

Zamir Bektic

1957 E. Norton Road
Hudson, Ohio 44236

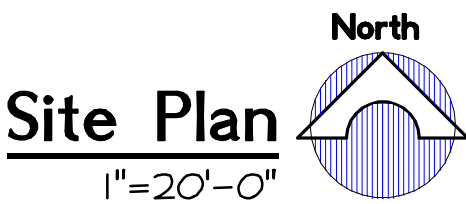


INDEX OF DRAWINGS

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

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.

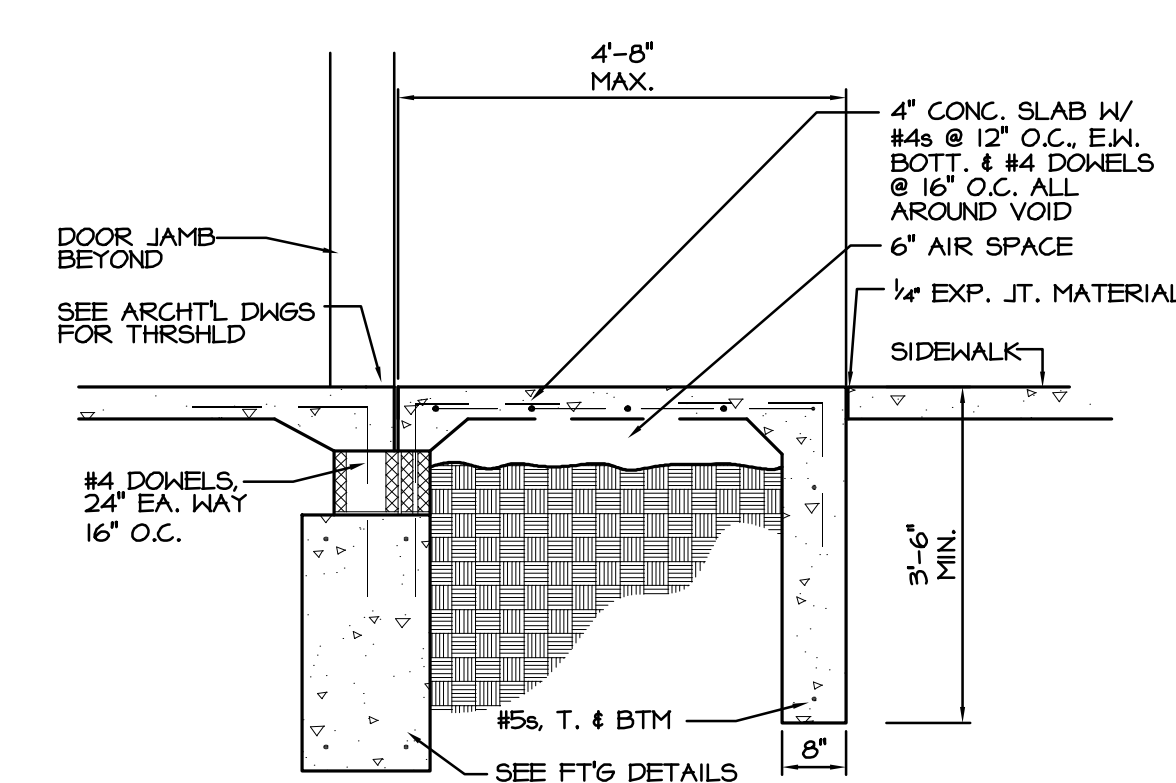
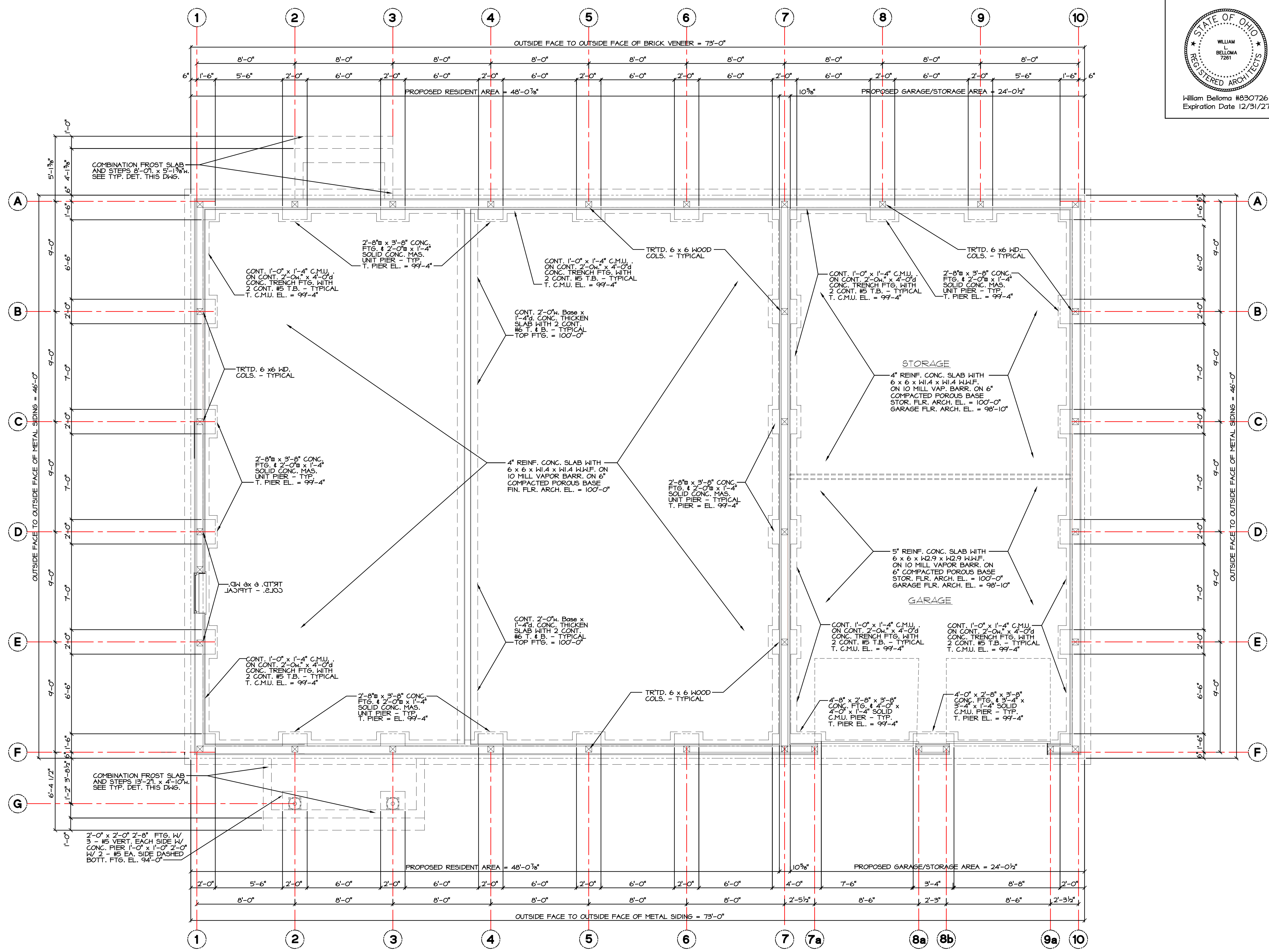


Site Plan
1"=20'-0"

Site Note

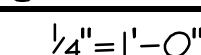
SITE AND BOUNDARY INFORMATION SHOWN ON THIS DRAWING WAS DERIVED FROM INFORMATION PROVIDED/DOWNLOADED FROM COUNTY RECORDS BY OWNER. NO FORMAL SURVEY WAS PERFORMED.

DWG. NO.	Cover
DATE	March 31, 2026
REVISION	



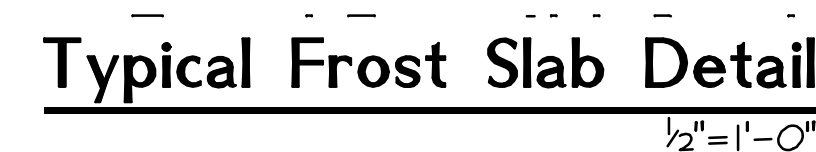
Typical Frost Slab Detail
1/2"=1'-0"

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


$$1/2'' = 1' - 0''$$

5322 Cornell Blvd. North Ridgeville, Ohio 44039 (216)380-
Copyright 1989 WLB Architect.
This drawing or any part thereof shall not be reproduced
or modified without the consent of WLB Architect.

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) | 4,000 PSI |
| 5. Reinforcing Steel (A615 grade 60) | 60,000 PSI |
| 6. Structural Steel (A36) | 36,000 PSI |
| 7. Steel Joists (K Series) | 50,000 PSI |
| 8. Welded Wire Mesh (A-185) | 60,000 PSI |
| 9. Steel Deck | 20,000 PSI |
| 10. Masonry | 170 PSI |
| - Solid Concrete Block | 170 PSI |
| - Hollow Concrete Block | 150 PSI |
| - Brick | 33,000 PSI |

- C. CONCRETE CONSTRUCTION** (unless otherwise noted)
- Slabs on Ground - 6" x 6" W2.9 x W2.9 welded wire mesh reinforcing.
 - All concrete construction to be in accordance with the latest A.C.I. Code and A.C.I. Detailing Manual.
 - 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.
 - All epoxy-coated bars shall conform with ASTM A775 where required.
 - Cylinder test required by certified soil testing firm reporting on 7, 14, and 21 day test results.

- D. FOUNDATIONS** (unless otherwise noted)
- Elevations given are to bottom of footings.
 - Bearing into Hard Brown grey clay - elevations given are approximate and shall be adjusted to suit field conditions.
 - Existing Foundations -
 - Existing Foundations as shown are approximate. Exact condition must be verified at time of construction.
 - When new footings meet existing footings, they shall be stepped at ratio 2 to 1 slope (Two horizontal to one vertical).
 - Provide 2 - #5 top & bottom continuous in all footings directly under masonry walls.
 - Footings shall be poured on hard dry earth. Open cuts shall not be exposed for more than 24 hours. No "Cold Joints" permitted.
 - 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)
- Shop Connections - welded or bolted.
 - Field Connection - welded or friction type high strength bolts (A325SSC) with hardened washers and threads included in the shear plane.
 - Shop drawings shall note type of electrode, size of all welds, and type and size of all bolts.
 - Painting - Provide shop primer coat (Grey).
 - Beams bearing on masonry shall have angle wall anchors.
 - Steel construction shall conform to the latest A.I.S.C. Specifications and Code of Standard Practice.
 - All shop and field welding shall be done by a certified welder.

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

- G. ROOF OPENINGS**
- 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**
- This schedule is for material not otherwise shown or noted on drawings.

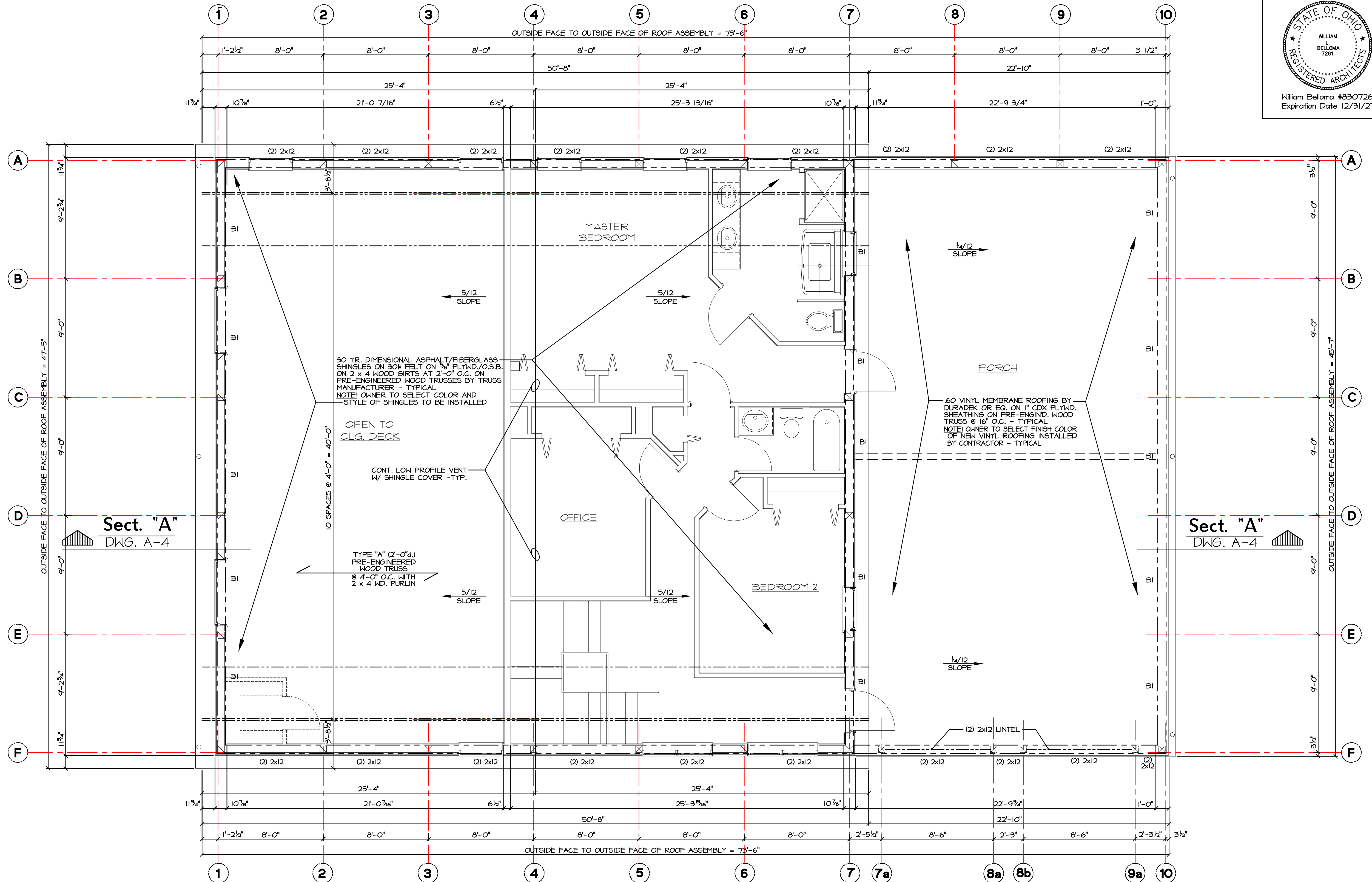
Span Limits	Angle Size
0' to 4'-0"	3-1/2" x 3-1/2" x 1/4"
4'-1" to 5'-6"	4" x 3-1/2" x 5/16"
5'-7" to 7'-6"	5" x 3-1/2" x 5/16"
7'-7" to 9'-6"	6" x 3-1/2" x 3/8"

- A. Provide one angle for each 4' of masonry wall thickness.
B. Angles exposed to weather shall be 3/8" minimum thickness and hot-dip galvanized.
C. Minimum bearing shall be 6" each end.
2. For 6' walls provide:
- | | |
|---------------|------------|
| Span to 4'-0" | WT 5 x 6.0 |
| to 5'-6" | WT 5 x 8.5 |
| to 7'-6" | WT 5 x 11 |
| to 9'-6" | WT 5 x 14 |
- 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:
 - Truss configuration, including span, pitch, loading diagram, and spacing of panel points.
 - Loading requirements, see Structural Loading this drawing.
 - Top Chord: Roof Live Load 30 PSF
Bottom Chord: Roof Dead Load 10 PSF
 - 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.
 - Species, stress grade, and nominal size of lumber used.
 - Design live and dead loads including panel point loads and reactions.
 - Manual or computer printout of axial forces and flexural stress plus design of member for combined loading as required.
 - Joint and splice connection design details.
 - Drawings and calculations stamped by a professional engineer registered in the State of Ohio.
 - 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, Fb = 1200, Deflection L/360, E = 1,760,000 psi
 - Truss Installer shall provide Hurricane clip No. H2.5A2 by Simpson Strong Tie at each bearing point per Truss Manufacturer drawings, specifications, and recommendations.
 - Roof Rafters** - Douglas Fir with allowable design stresses: Fb = 1500, Deflection L/360, E = 1,760,000 psi
 - Ceiling Joist** - Douglas Fir with allowable design stresses: Fb = 1500, 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. Fb 1500 P.S.F. AND LIVE LOAD LISTED BELOW:

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

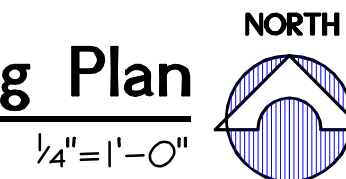
a. Ground Snow Load (Pg)	- 20 P.S.F.
b. Exposure Factor (Ce)	- 1.0
c. Importance Factor (I)	- 1.0
d. Flat Roof Snow Load	- N.A.
e. Thermal Factor (Ct)	- 1.0
- ROOF LOADS**

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

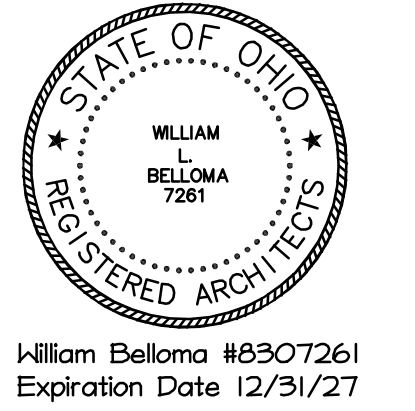
a. Basic Wind Speed (# Second Gust)	- 115 M.P.H.
b. Importance Factor	- 1.0
c. Exposure Category (MNFERS)	- B
d. Internal Pressure Coefficient	- 0.18
- SEISMIC LOADS**

a. Seismic Design Category	- B
b. Seismic Importance Factor	- 1.0
c. Site Class	- D
d. Mapped Spectral Response Accel.	-
Ss = 0.164	
S1 = 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
- ANALYSIS BY SIMPLIFIED PROCEDURE
- ALL PRE-ENGINEERED TRUSSES MUST BE DESIGNED/STAMPED BY REGISTERED STRUCTURAL ENGINEER WITH THE STATE OF OHIO SEAL.
- CONCRETE FLOOR - 100 P.S.F.

Roof/Roof Framing Plan



1/4"=1'-0"



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$$\frac{1}{8}'' = 1' - 0''$$

$$\frac{1}{8}'' = 1' - 0''$$

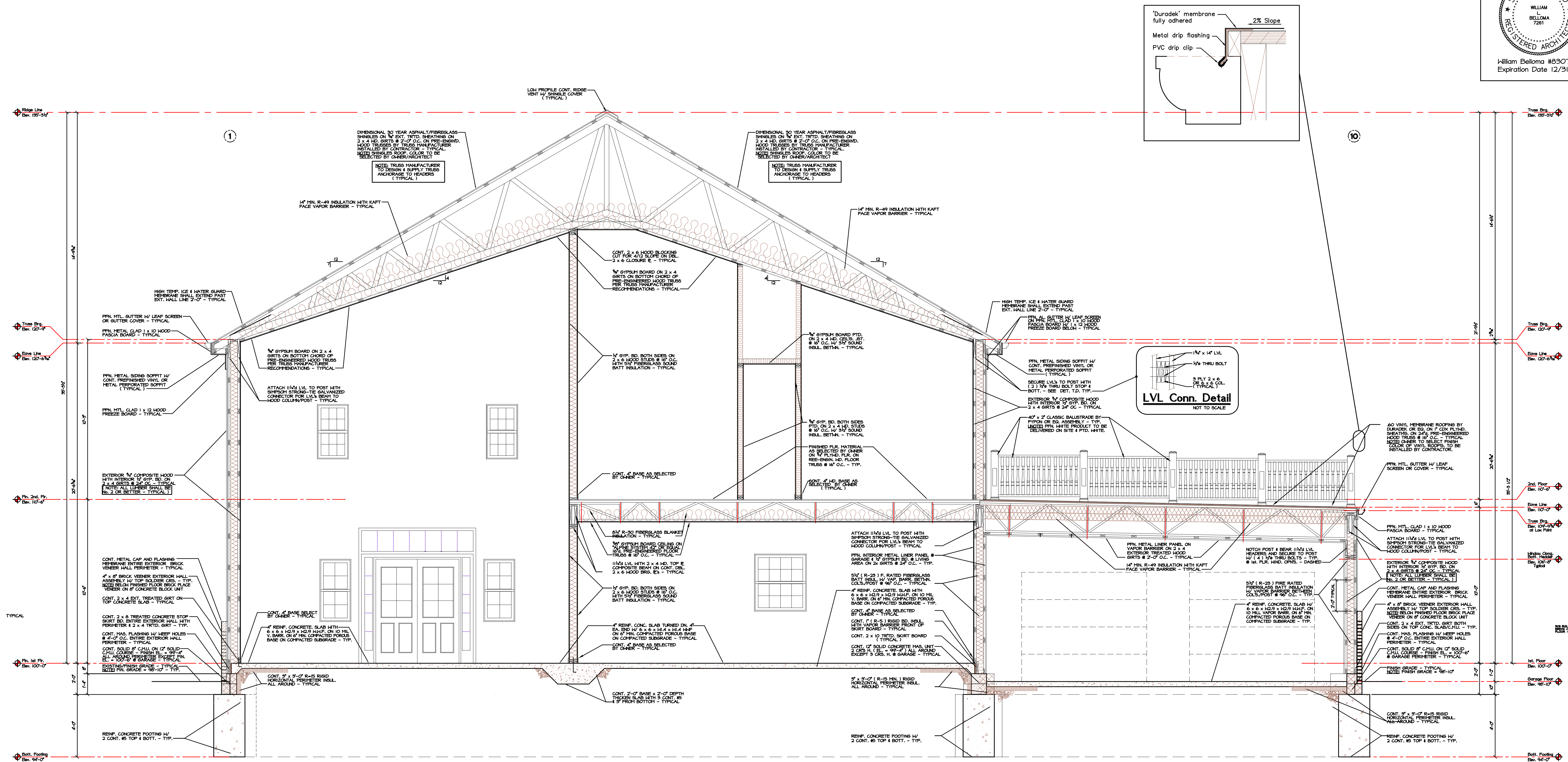
$$\frac{1}{8}'' = 1' - 0''$$

$$\frac{1}{8}'' = 1' - 0''$$

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 xxxx'xx" (100'-0") IS THE START OF MASONRY COURSING. ADJUST FOUNDATIONS, COLUMNS, ETC. IN CONJUNCTION WITH ANY FIELD CONDITIONS INCOUNTED AS DIRECTED BY ARCHITECT/OWNER.
3. DOWNSPOUTS NOT SHOWN FOR CLARITY SEE ROOF PLAN DRAWING A-3 FOR LOCATION OF ALL DOWNSPOUTS.

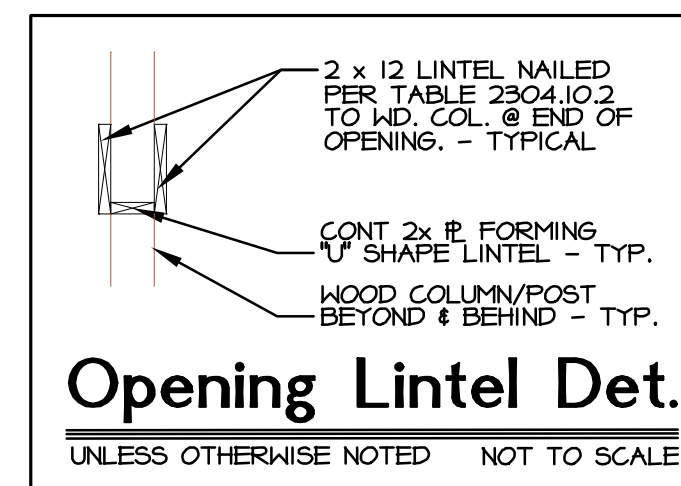
A-3

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Building Wall/Cross Section

1/2" = 1'-0"



Nailing Schedule

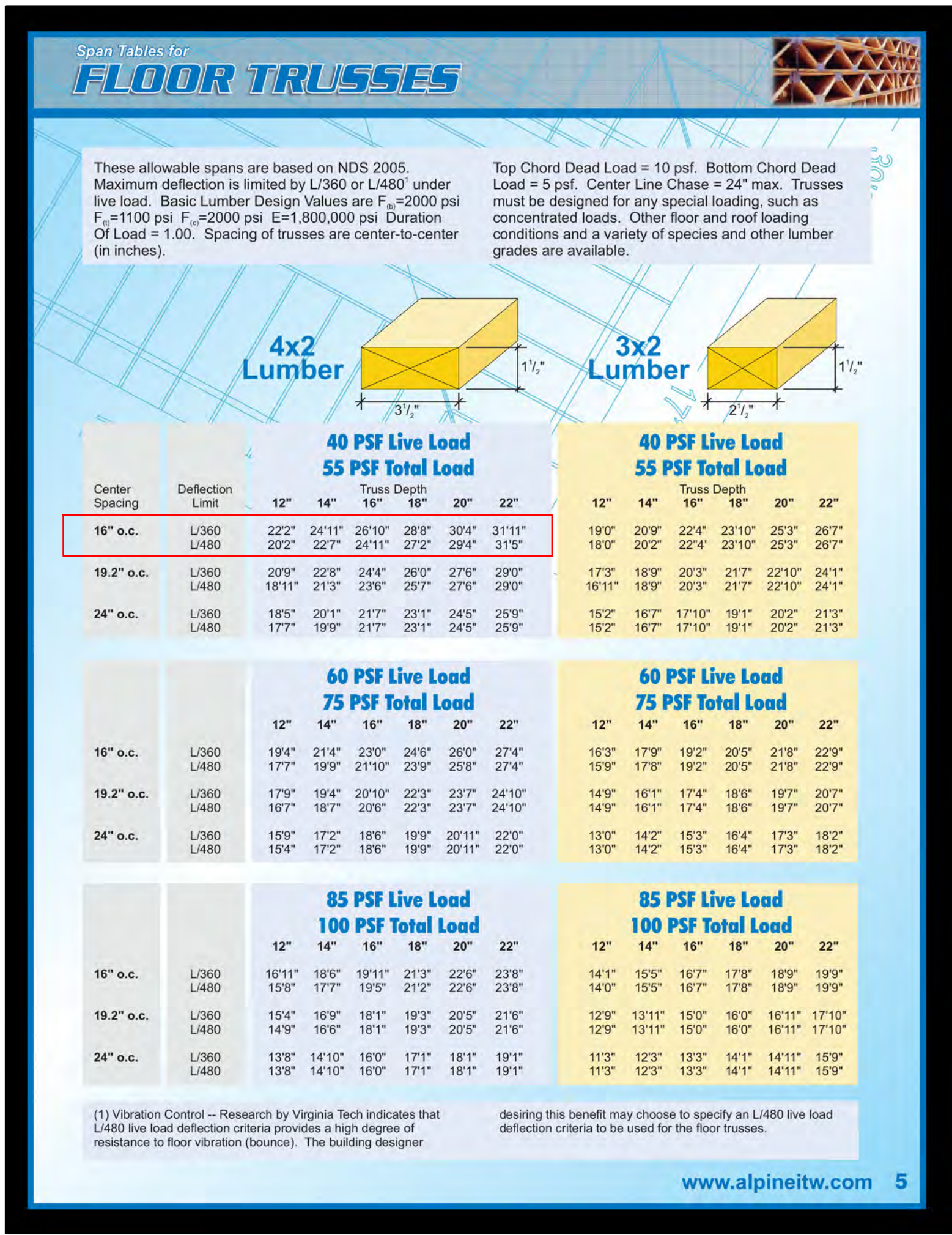
2 x 8 0.14CA-B TREATED	(8) 12D DOUBLE HOT-DIPPED GALVANIZED NAIL
PURLINS & GIRTS 2 x 4 #/W2 SPF	(8) 12D SMOOTH NAILS PER POST (8) 12D SMOOTH NAILS AT SPLICE
(2) 1 3/4 x 11 1/4 HEADERS TO POST (INTERIOR POST TRMT. ONLY BOTT. 6'-0" @) (EXTERIOR POST TREATMENT FULL HEIGHT)	(4) 5/16" x 4" GRK SCREWS PER 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")	(8) 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	

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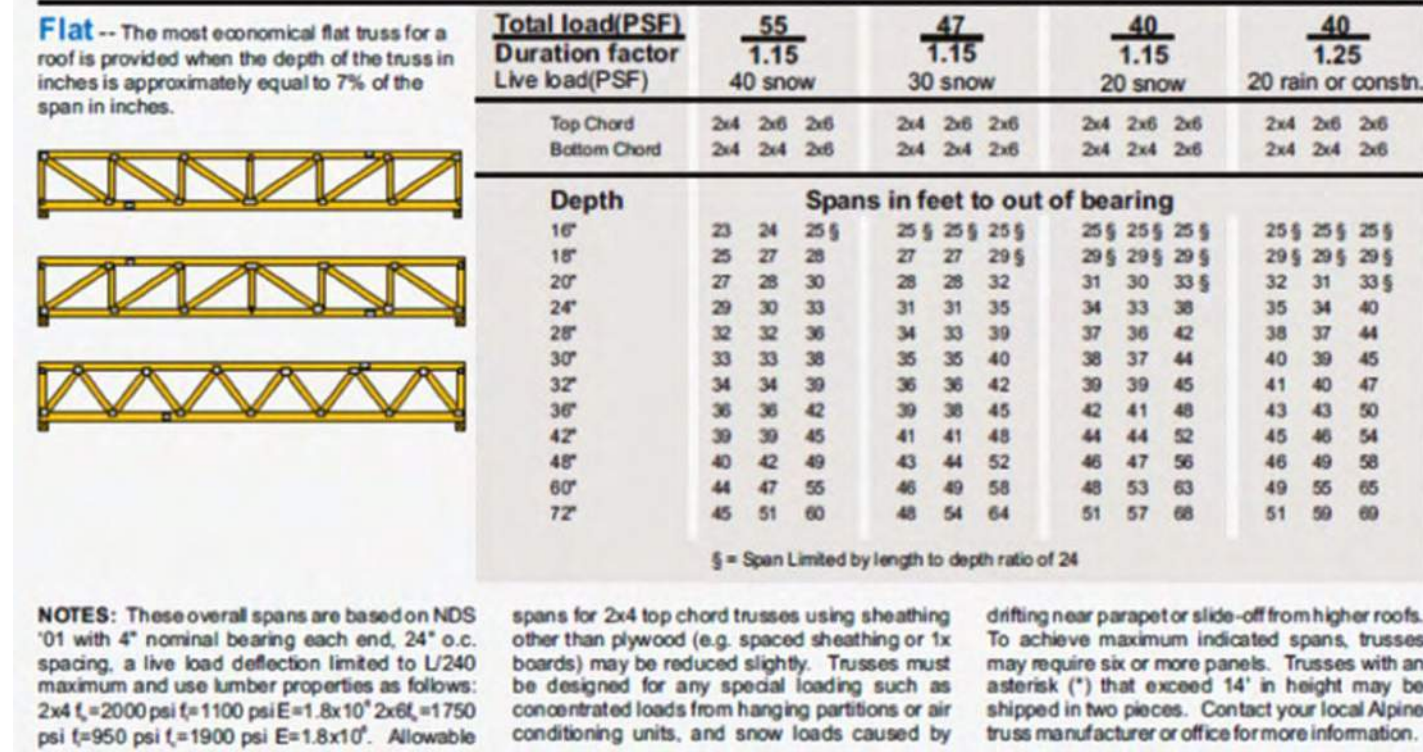


ROOF TRUSS DESIGN

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

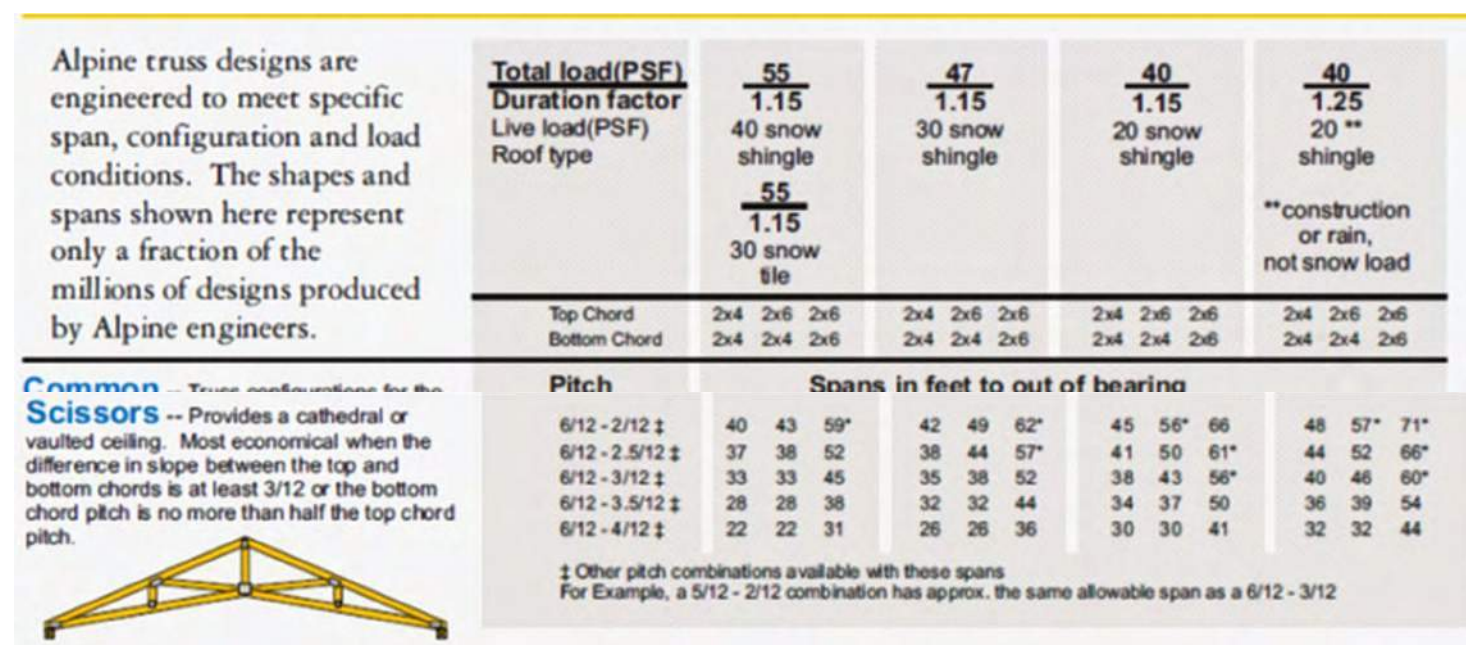


Gable slope design = Total Live Load 40 PSF for 20 PSF Snow Load for Lower Roof

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



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.

ALTERNATES

- Not Applicable or as directed by Owner prior to Bid/Quote.

Material Specifications

A. Glass Glazing

- Exterior Aluminum Window Glass - 1' tempered insulating Solar Ban 60 Low 'E' 1/2" Air Space Agron 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 Agron Gas Filled.

B. Hollow Metal Doors, Frames

- Frames - 16 ga., bonderized and primed, reinforced for all hardware, unit type.
 - Frames in Masonry Construction shall be back primed with Black Mastic/Roofing Tar.
- 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. Specity 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 Thermacore 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 Dura-Sheathe. See Dwg. A-1 for new units, Casement Units Design Basis
- Optional Exterior Architectural Aluminum Stonefront Windows Prefinished Fluorocarbon 2-coat system, Kynar 500 finish, custom color, "KAWNEER" 451-T-VG or ArmLite, 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 - Well 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.
 - 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 a flame spread F factor contributed and smoke development classification of 25.

J. Flashing

- 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 a flame spread F factor 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 Option Structural 3 1/2" x 14 Gauge (C 0.0713), 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
 - Provide 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
 - Case Doors shall be concealed self closing. (2) two under 44"
 - Pulls-Epco 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
 - Catches-Epco 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/ countertop color
- Ceiling
 - Gypsum Board
 - 5/8" tapered edges, angular 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.
- Suspended Acoustical Ceiling - N.A.
 - Lay-in type ceiling - 2'-0" x 2'-0" 1/4"-0" x 5/8" 3/4" angular regular "CORTEGA" as manufactured by Armstrong or equal by U.S.G. Interior "DMNI" fissured, Celotex or Conwed with fire rating. See HVAC Drawing H-101 for Ceiling Layout.
 - Lay-in type ceiling - 2'-0" x 2'-0" 1/4"-0" x 3/4" angular regular "CERAMIGUARD" as manufactured by Armstrong or equal by U.S.G. Interior, Celotex or Conwed. Typical at all Locker Rooms/Restrooms

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

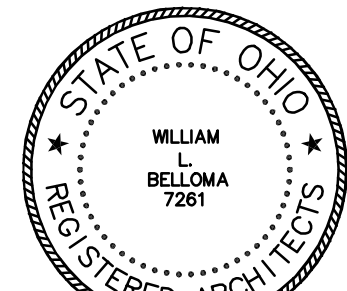
- Tremco Dymeric in color to match finish of Concrete Block, doors, metals, etc.

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
 - 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 0-26 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.



William Belloma #8307261
Expiration Date 12/31/27

DWG. NO.

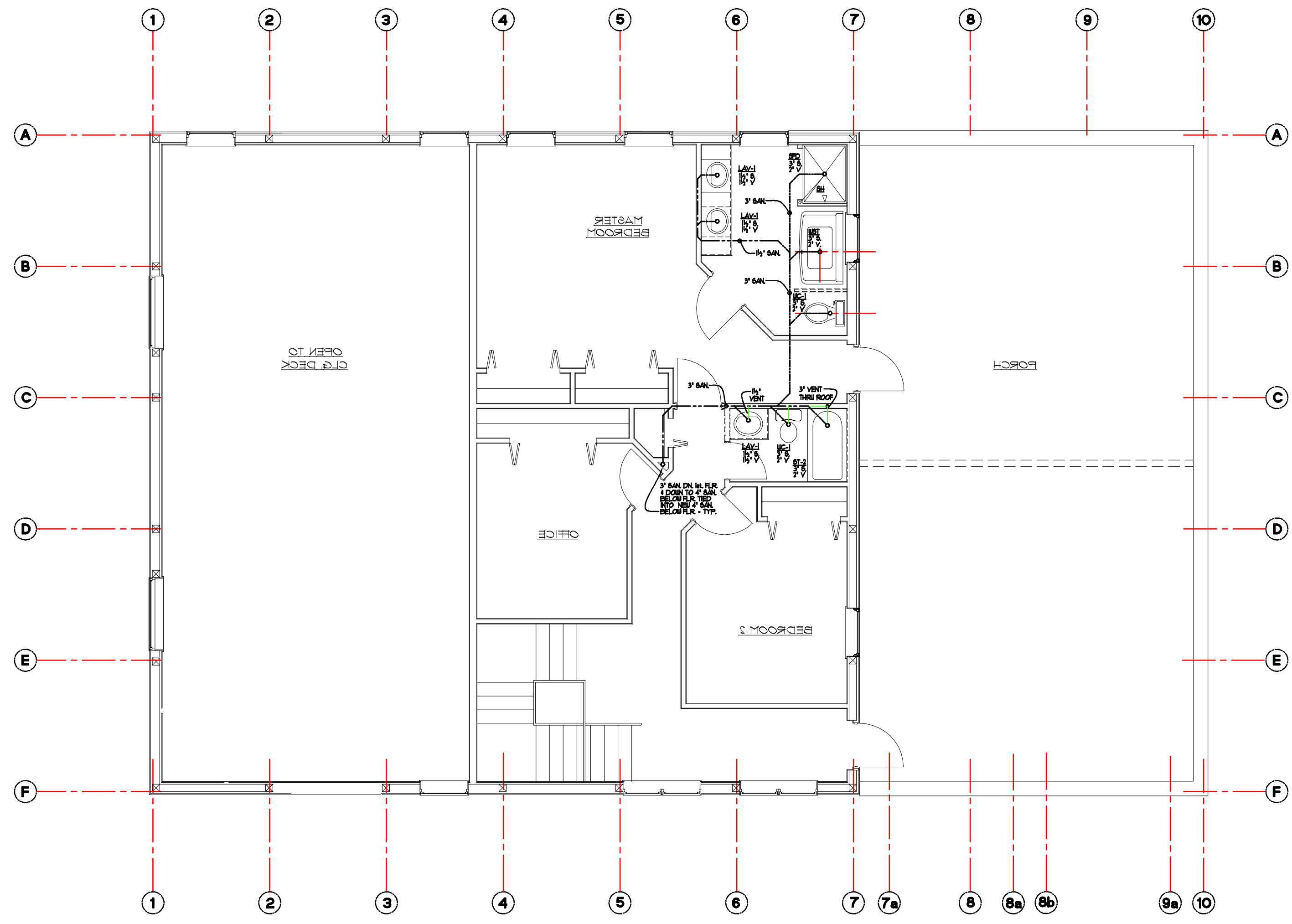
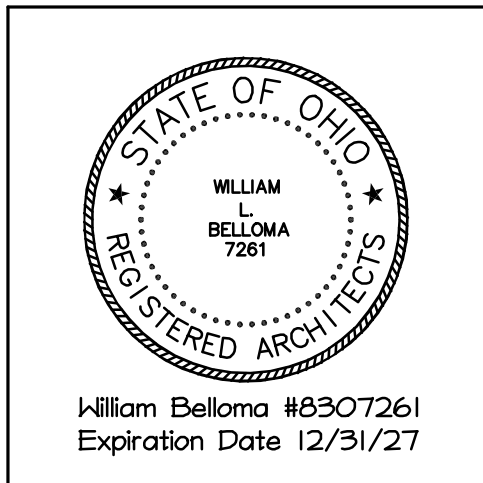
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DATE March 31, 2026

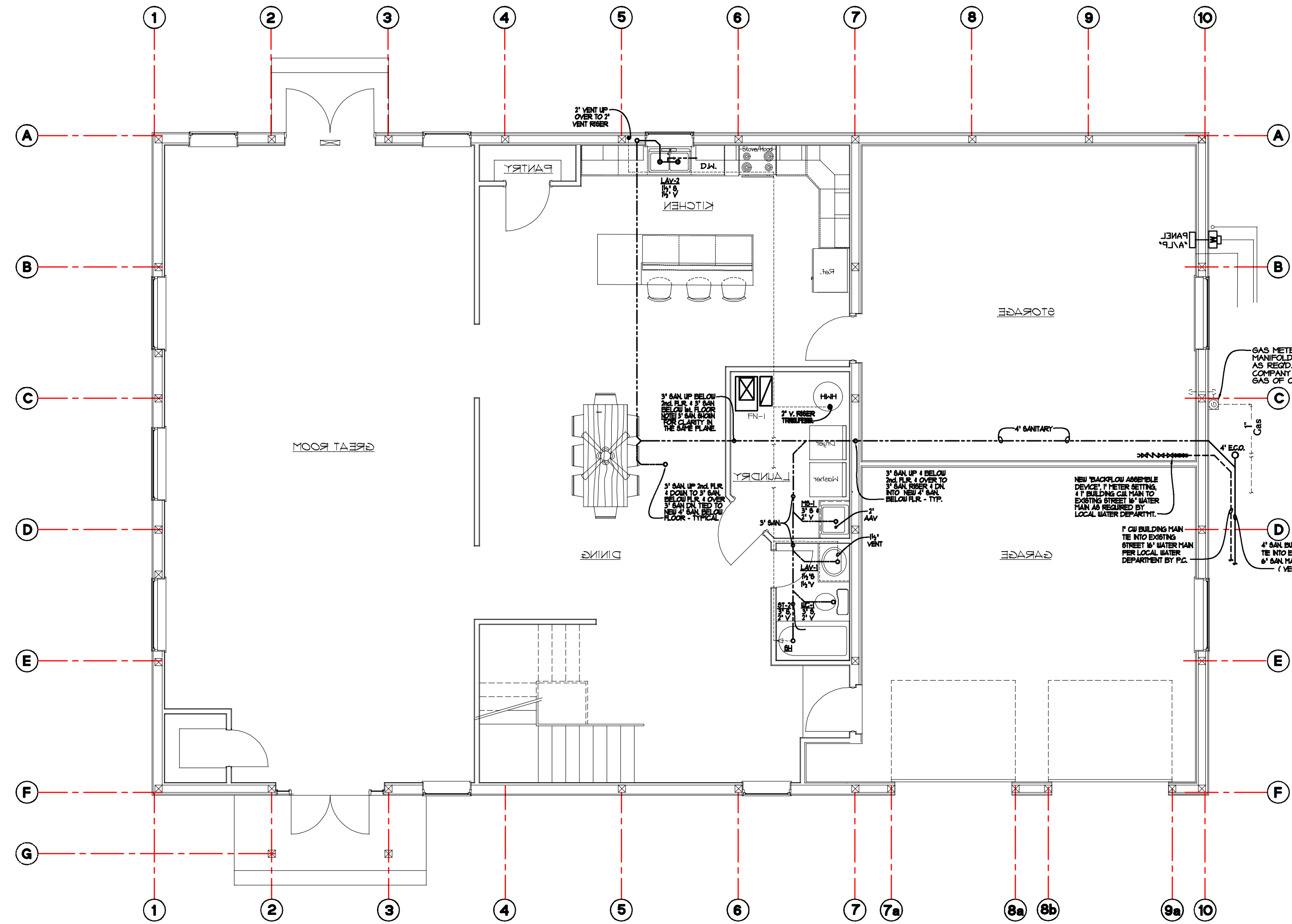
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Beloma Consulting

2522 Canal Blvd. Sub. Bldg. 2B-408
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2nd. Floor Sanitary Plumbing Plan
3/16" = 1'-0" NORTH



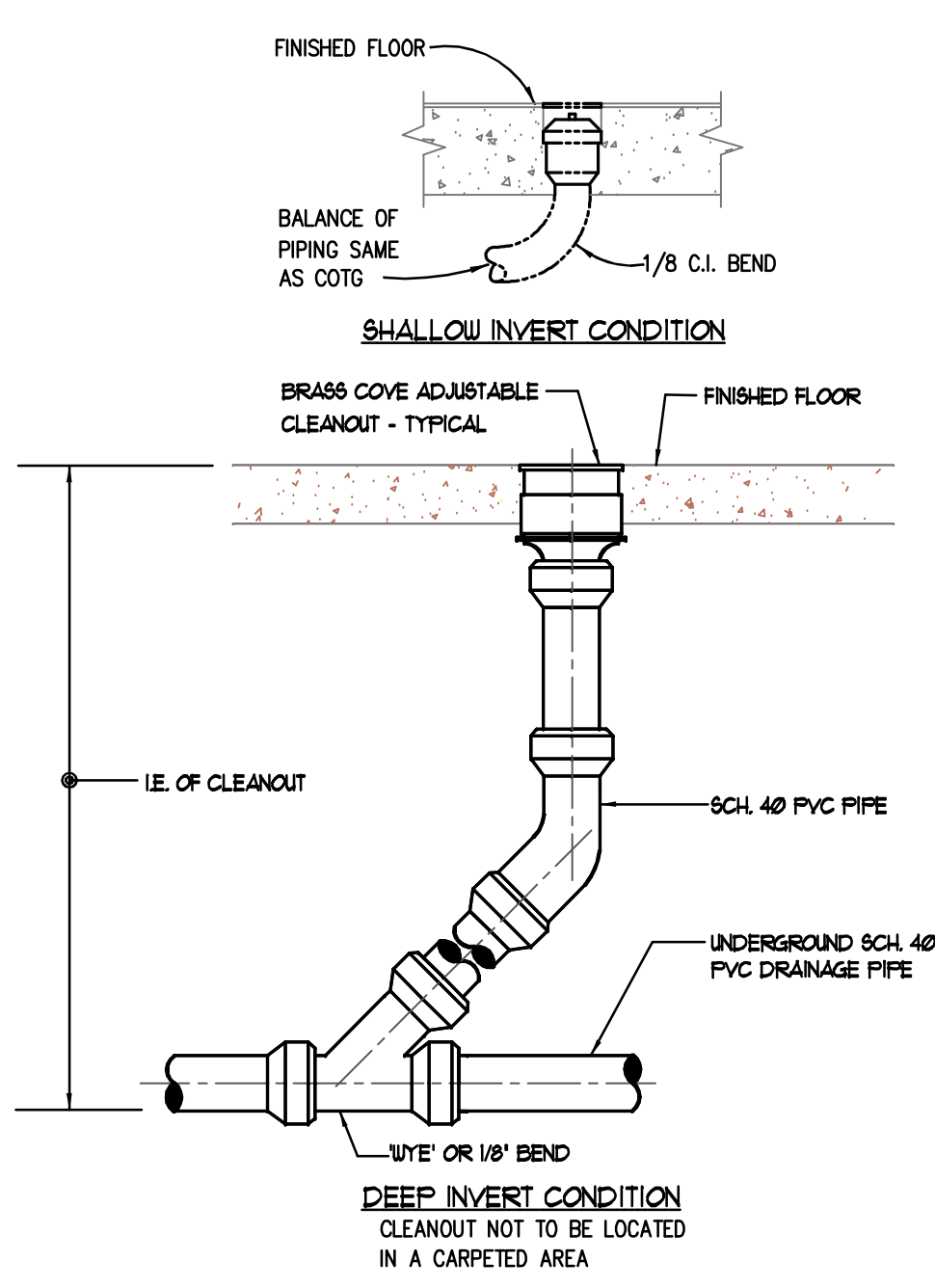
1st. Floor Sanitary Plumbing Plan
3/16" = 1'-0" NORTH

Plumbing General Notes:

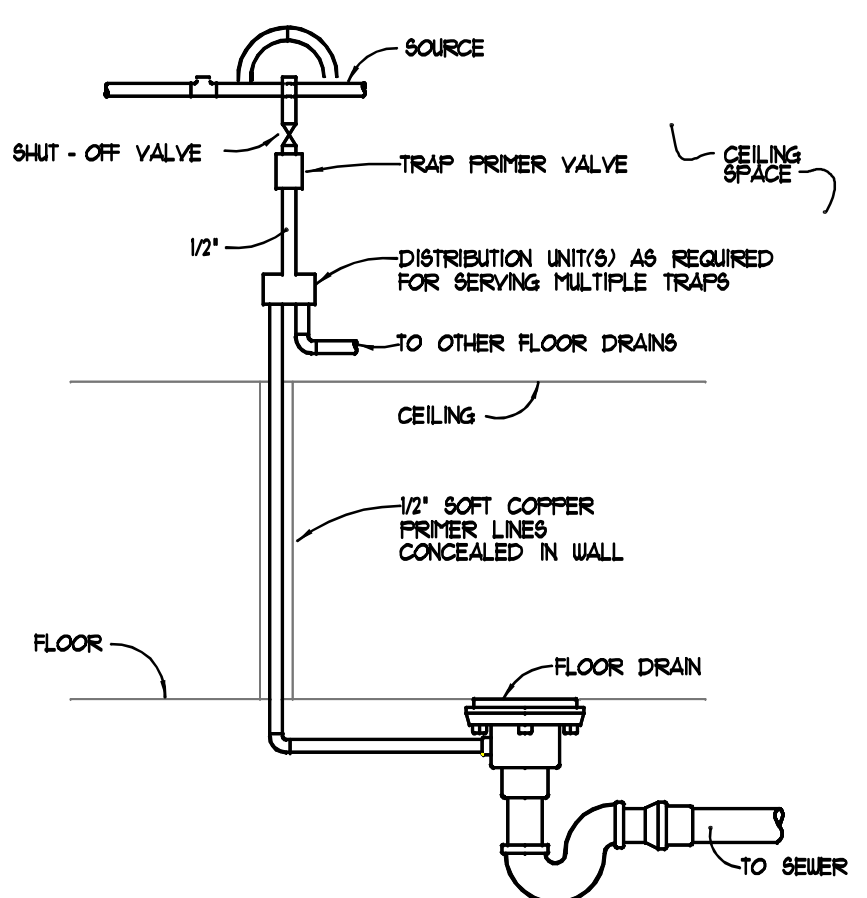
1. ALL PLUMBING LINES SHOWN IN THIS DRAWING ARE SCHEMATIC REPRESENTATION OF THE REQUIRED NEW/RENOVATION WORK. THE FINAL LOCATION AND ARRANGEMENT MAY VARY DUE TO EXISTING FIELD CONDITIONS ENCOUNTERED AT THE TIME OF CONSTRUCTION. FIELD VERIFY EXACT LOCATIONS, INVERTS, ETC., OF ALL EXISTING UTILITY SERVICES AND CONNECTIONS. MODIFY DESIGN AS REQUIRED TO MATCH ACTUAL FIELD CONDITIONS.
2. 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.
3. COORDINATE LOCATION AND ELEVATION OF PLUMBING WITH THE LOCATION OF DUCTWORK, LIGHTING AND STRUCTURAL MEMBERS.
4. 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.
5. ALL NEW SANITARY, COLD WATER, AND HOT WATER LINES SHALL BE INSULATED IN ACCORDANCE WITH OHIO PLUMBING CODE AND NEW FIXTURES MANUFACTURER REQUIREMENTS.
6. PLUMBING CONTRACTOR SHALL SUPPLY A SAFE WASTE DRAIN PAN AND RELIEF VALVE TO OUTSIDE WITH EACH NEW ELECTRIC OR GAS FIRED HOT WATER TANK.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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

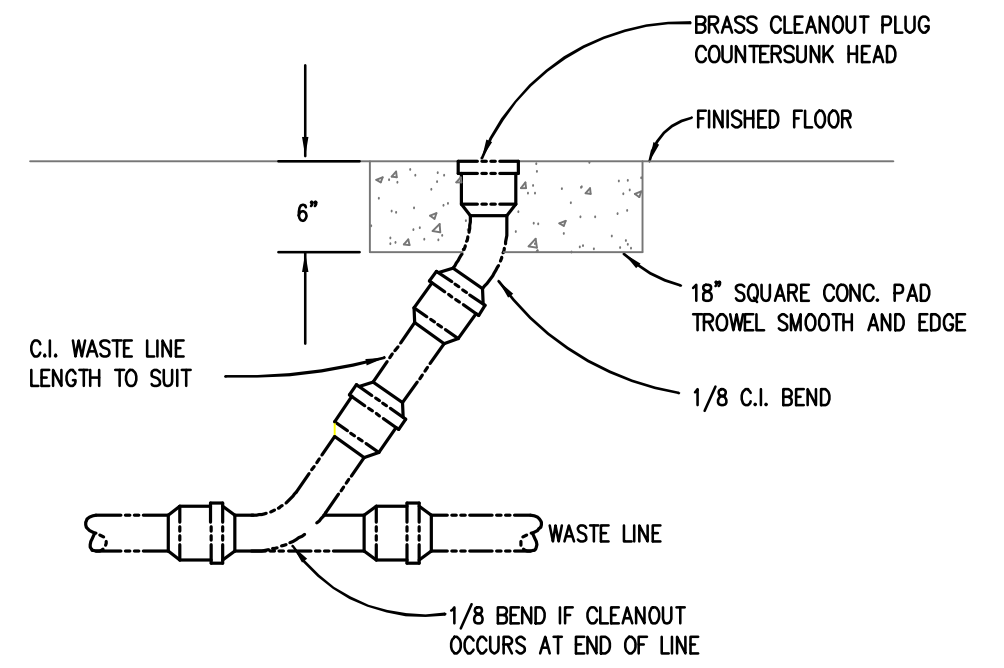
LAV-1	AMERICAN STANDARD 'AQUALYN' # 6416.028, SELF-RIMMING COUNTERTOP LAVATORY WITH 4" FAUCET CENTERS FAUCET SHALL BE MOEN 'SANI-STREAM' MODEL #4000 CHROME, 4" CENTERS WITH 4" SUPPLIES AND LEVER STYLE HANDLE. FURNISH CHROME STOPS, SUPPLIES AND A 1/4" OFFSET LAVATORY DRAIN WITH STAINLESS STEEL GRID AND 1/4" CHROME P-TRAP. PROTECT TRAP & SUPPLIES WITH TRAP WRAP KIT 500R BY BROCAR OR EQUAL.
LAV-2	KITCHEN SINK ELKAY 'LUBERTONE' # LR3372 (OR EQUAL) 33" x 22" DOUBLE BOWL TYPE 3/4" STAINLESS STEEL, 8" DEEP WITH TWO 3/4" DRAIN OPENINGS. FURNISH WITH LK-35 STRAINER AND TAILPIECE ASSEMBLY. FAUCET SHALL BE MOEN 'LEGEND' MODEL #122 WITH SPRAY ATTACHMENT AND LEVER HANDLE. RIGHT HAND BOWL OF SINK SHALL BE PROVIDED WITH PROVISIONS FOR AN IN-SINK-GRATOR 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.
MS-1	MUSTEE # 50N MODEL DURASTONE 100, ONE PIECE MOLDED FIBERGLASS SELF-RIMMING COUNTERTOP UTILITY SINK 22" x 25" x 18 1/4" WHITE FINISH. FAUCET SHALL BE MOEN MODEL #8230 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.
WC-1	ADA COMPLIANT TOILET AMERICAN STANDARD (OR EQUAL) 'CHAMPION 4' ELONGATED MODEL # 2002.0141 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.
WB-1	'AMERICAN STANDARD' FREE STANDING ACRYLIC SINKING TUB 60" x 36 1/4" x 21 1/2" MODEL #T11V002 (OR EQUAL) WITH INTEGRAL CENTER DRAIN, WIDE DECK, DRAIN OVERFLOW KIT MODEL #B2000.002 (OR EQUAL). DECK MOUNTED FAUCET TOWNSEND MODEL #1393.901
ST-2	AQUATIC ONE PIECE TUB/SHOWER 60" x 32" x 12" MODEL #6028GL-114HD OR EQUAL WITH HAND HELD SHOWER ASSEMBLY ATTACHED TO SHOWER HEAD/VALVE ASSEMBLY (NOTED SH). OWNER'S OPTION HDPE FOLD UP SEAT, 3/4" STAINLESS STEEL 18 GA. HORIZ. GRAB BARS 30" x 1 1/2" x 2 1/4" x 1 1/2" AND 3/4" S. 91L 18 GA. VERTICAL GRAB BAR 24" x 1 1/2"
SFD	SHOWER FLOOR DRAIN 'SIQUX CHIEF' # 864 SERIES' (OR EQUAL) WITH ABS GRATE SEE PLANS AND ROSEB DIAGRAMS FOR SIZES
HWH	GAS FIRED WATER HEATER EQUAL TO 'STATE PROLINE' ATMOSPHERIC VENT ENERGY SAVER WATER HEATER' MODEL #36X-40-BRBT, 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 50X (50) YEAR PARTS AND SERVICES WARRANTY.
HBR	JAY R 99TH MODEL # 566.090T OR EQUAL FREEZELESS WALL HYDRANTS WITH INTEGRAL VACUUM BREAKER. CONTRACTOR TO ORDER PROPER LENGTH HYDRANT REQUIRED BASED ON WALL THICKNESS.
GD	WALL OR FLOOR CLEANOUT 'SIQUX CHIEF' # 851 SERIES' (OR EQUAL) ADJUSTABLE CLEANOUT WITH NO-HUB CONNECTION AND CAST-IRON COVER. SEE PLANS AND ROSEB DIAGRAMS FOR SIZES
WHB	WATER HAMMER ARRESTERS SHALL BE WAITS SERIES 5 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.
ED	FLOOR DRAIN 'SIQUX CHIEF' # 864 SERIES' (OR EQUAL) WITH DUCTIRON GRATE. SEE PLANS AND SANITARY ISOMETRIC FOR SIZES
AAV	AIR ADMITTANCE VENT (BY PLUMBER), DAIET'S (OR EQUAL) BURE VENT SIZED PER FIXTURE ASSEMBLY.



Floor Cleanout Detail
Scale None



Trap Primer Detail
Scale None



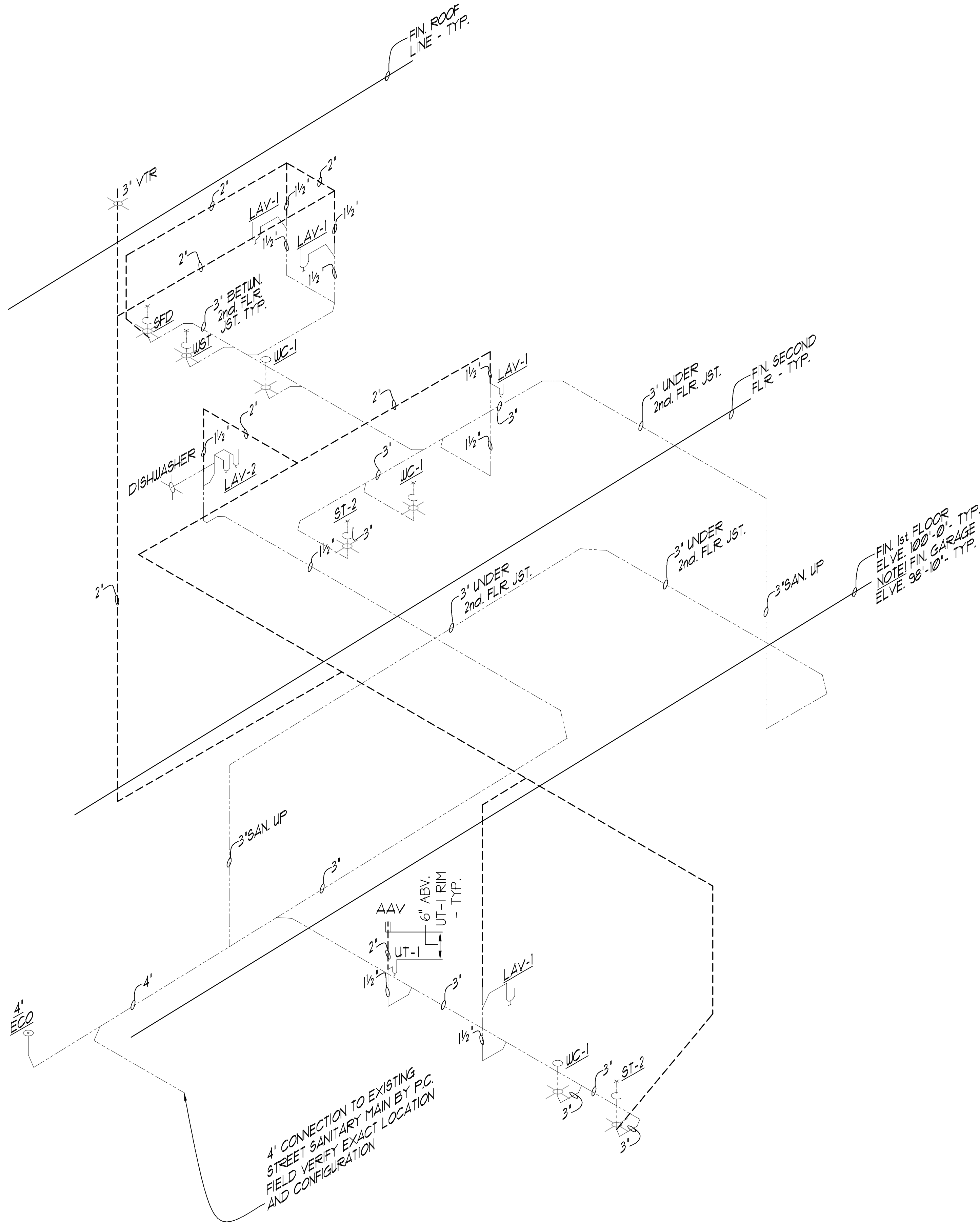
Cleanout to Grade (ECO)
Scale None

Site Utility Notes:

1. LOCATION OF EXISTING UTILITIES ARE APPROX. VERIFY EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES.
2. 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.
3. ALL FIRE LINES SHALL BE TESTED IN ACCORDANCE WITH F.M., O.B.C., N.F.P.A. AND LOCAL REQUIREMENTS.
4. 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.
5. 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.
6. SANITARY LINES SHALL BE SCH. 40 OR SDR-35 PVC @ 1/8"/FT. SLOPE.
7. 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 MATERIAL.
8. SITE STORY PIPING SHALL BE SDR-35 PVC OR CORRUGATED POLYETHYLENE 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
18322 Canal Blvd. #100, North Olmsted, OH 44130
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Sanitary Isometric
NOT to SCALE

Plumbing Fixtures Schedule

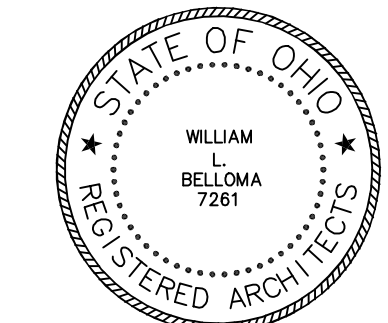
LAV-1	AMERICAN STANDARD 'AQUALYN' * 0476028 SELF-RIMMING COUNTERTOP LAVATORY WITH 4" FAUCET CENTERS FAUCET SHALL BE MOEN 'SANI-STREAM' MODEL 8400, CHROME, 4" CENTERSET WITH 4" SUPPLIES AND LEVER STYLE HANDLE. FURNISH CHROME STOPS, SUPPLIES AND A 1/4" OFFSET LAVATORY DRAIN WITH STAINLESS STEEL GRID AND 1/4" CHROME P-TRAP. PROTECT TRAP & SUPPLIES WITH TRAP WRAP KIT 500R BY BROCCAR OR EQUAL.	ST-2	AQUATIC, ONE PIECE TUB/SHOWER 60" x 32" x 12", MODEL *66036GL-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" 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 3/4" DRAIN OPENINGS. FURNISH WITH LK-35 STRAINER AND TAILPIECE 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" HORSHOE/POKER GARAGEAGE DISPOSER. FUTURE DISPOSAL SHALL BE FURNISHED WITH ALL STANDARD FEATURES INCLUDING 3 YEAR WARRANTY AND POWER CORD.	SFD	SHOWER FLOOR DRAIN 'SIOUX CHIEF' * 864 SERIES' (OR EQUAL) WITH ABS GRATE. SEE FLANS AND RISER DIAGRAMS FOR SIZES.
MS-1	MISTEE 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 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.	HJH	GAS FIRED WATER HEATER EQUAL TO 'STATE PROLINE' ATMOSPHERIC VENT ENERGY SAVER WATER HEATER' MODEL *35X-40-BDET, 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 * 2002.014' 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.	HB	JAY R SMITH MODEL * 56090T OR EQUAL FREEZE/LESS WALL HYDRANTS WITH INTEGRAL VACUUM BREAKER. CONTRACTOR TO ORDER PROPER LENGTH HYDRANT REQUIRED BASED ON WALL THICKNESS.
WT	'AMERICAN STANDARD' FREE STANDING ACRYLIC SOAKING TUB 60" x 36 1/2" x 21 1/2". MODEL 9711V001 (OR EQUAL) WITH INTEGRAL CENTER DRAIN, WIDE DECK, DRAIN OVERFLOW KIT MODEL *5810000.002 (OR EQUAL). DECK MOUNTED FAUCET TOWNSEND MODEL *1353301.	GO	WALL OR FLOOR CLEANOUT 'SIOUX CHIEF' * 861 SERIES' (OR EQUAL) ADJUSTABLE CLEANOUT WITH NO-HUB CONNECTION AND CAST-IRON COVER. SEE FLANS AND RISER DIAGRAMS FOR SIZES.
		UHA	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.
		FD	FLOOR DRAIN 'SIOUX CHIEF' * 864 SERIES' (OR EQUAL) WITH DUCTIRON GRATE. SEE FLANS AND SANITARY ISOMETRIC FOR SIZES.
		AAV	AIR ADMITTANCE VENT BY PLUMBER, CATEY'S (OR EQUAL) BURE VENT SIZED PER FIXTURES ASSEMBLY.

Plumbing General Notes:

1. 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.
2. 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 RESPECTIVE 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 PIPING FOR FIXTURES AND EQUIPMENT DIRECTLY CONNECTED TO THE SANITARY SYSTEM.
3. COORDINATE LOCATION AND ELEVATION OF PLUMBING WITH THE LOCATION OF DUCTWORK, LIGHTING AND STRUCTURAL MEMBERS.
4. 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.
5. ALL NEW SANITARY, COLD WATER, AND HOT WATER LINES SHALL BE INSULATED IN ACCORDANCE WITH OHIO PLUMBING CODE AND NEW FIXTURES MANUFACTURER REQUIREMENTS.
6. PLUMBING CONTRACTOR SHALL SUPPLY A SAFE WASTE DRAIN PAN AND RELIEF VAVLE TO OUTSIDE WITH EACH NEW ELECTRIC OR GAS FIRED HOT WATER TANK.
7. 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.
8. 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.
9. 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.
10. 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.
11. 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".

Site Utility Notes:

1. LOCATION OF EXISTING UTILITIES ARE APPROX. VERIFY EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES.
2. 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.
3. ALL FIRE LINES SHALL BE TESTED IN ACCORDANCE WITH F.M., O.B.C., N.F.P.A. AND LOCAL REQUIREMENTS.
4. 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.
5. 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.
6. SANITARY LINES SHALL BE SCH. 40 OR SDR-35 PVC @ 1/8"/FT. SLOPE.
7. 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.
8. 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).



William Belloma #6307261
Expiration Date 12/31/27

DWG. NO.

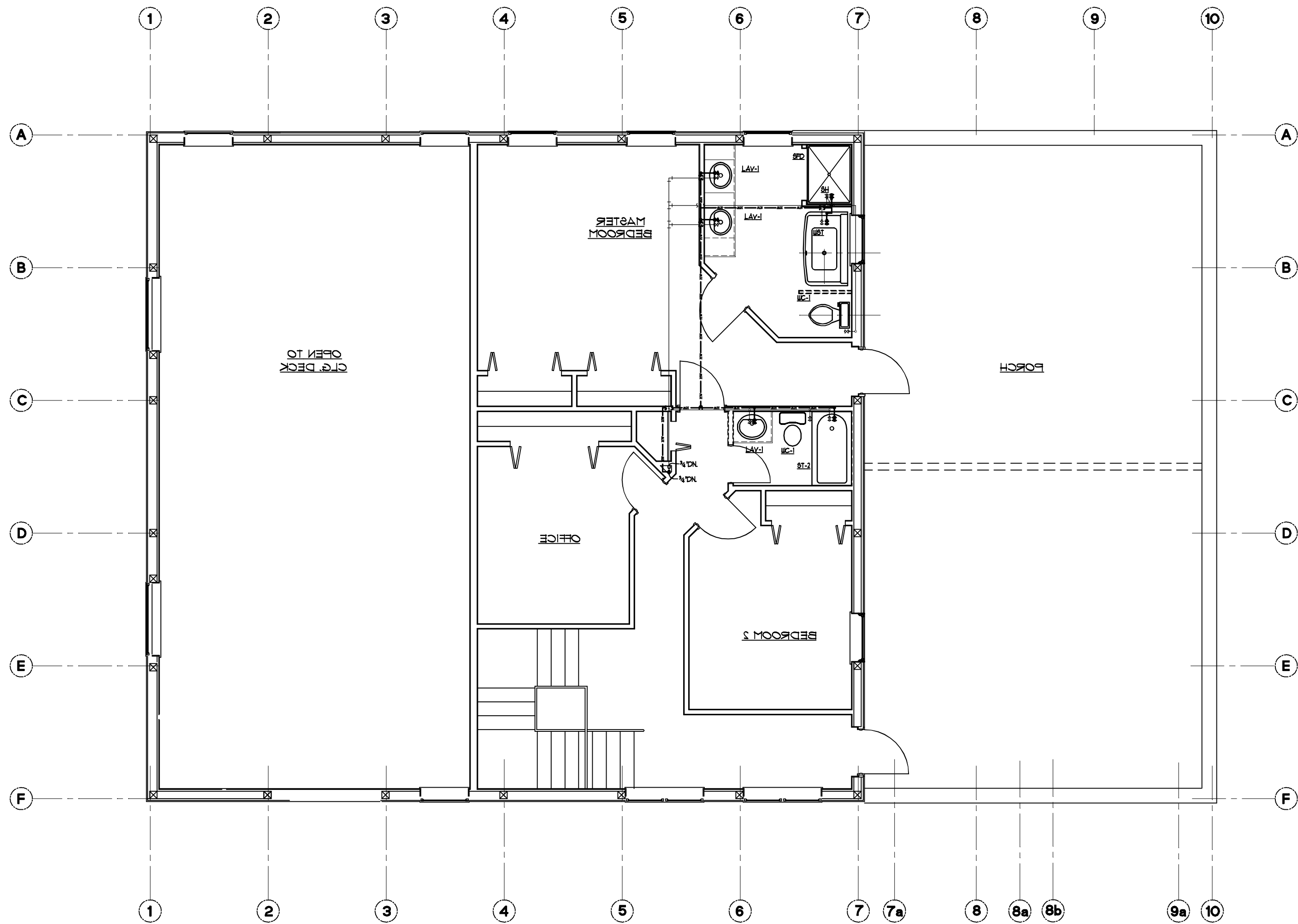
MEP-1.2

DATE March 31, 2026

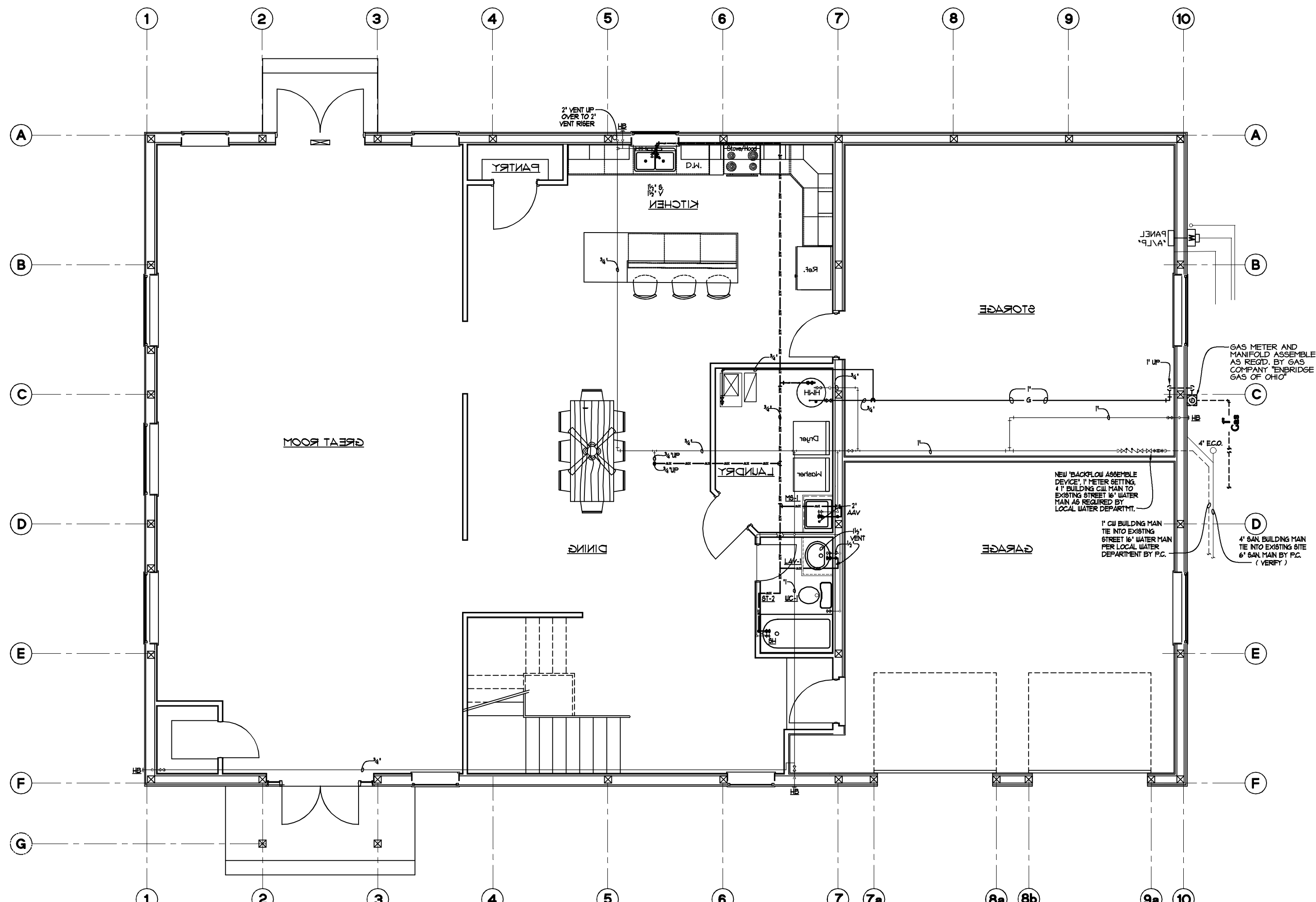
REVISION

Belloma Consulting

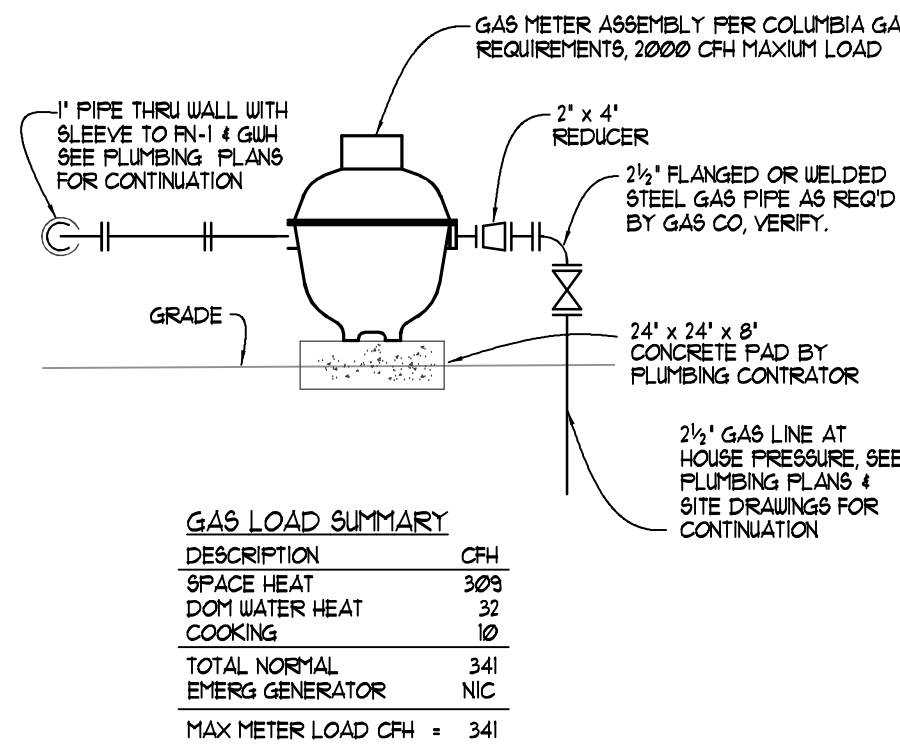
8282 Canal Blvd. North Olmsted, OH 44130 216.890.9800
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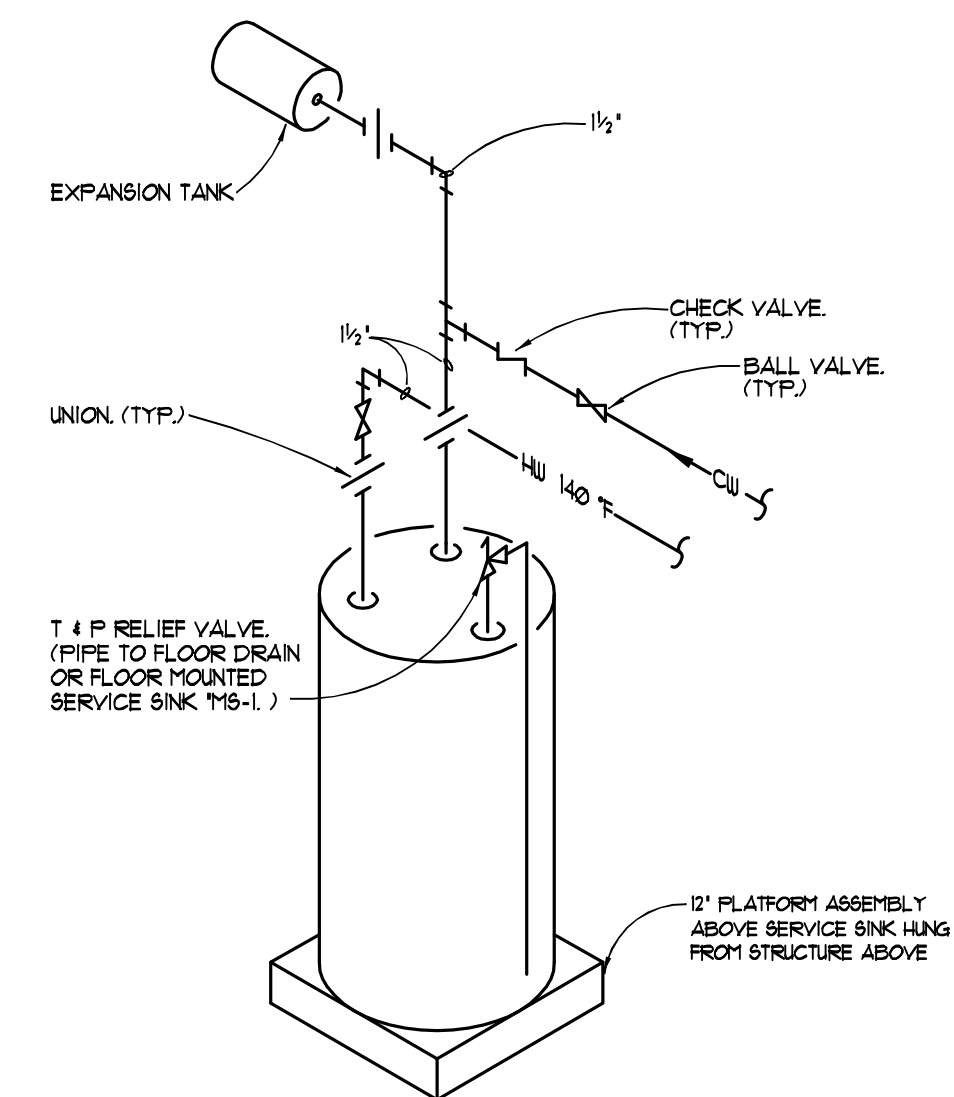
2nd. Flr. Domestic Water & Gas Plumbing Plan
3/16"=1'-0" NORTH



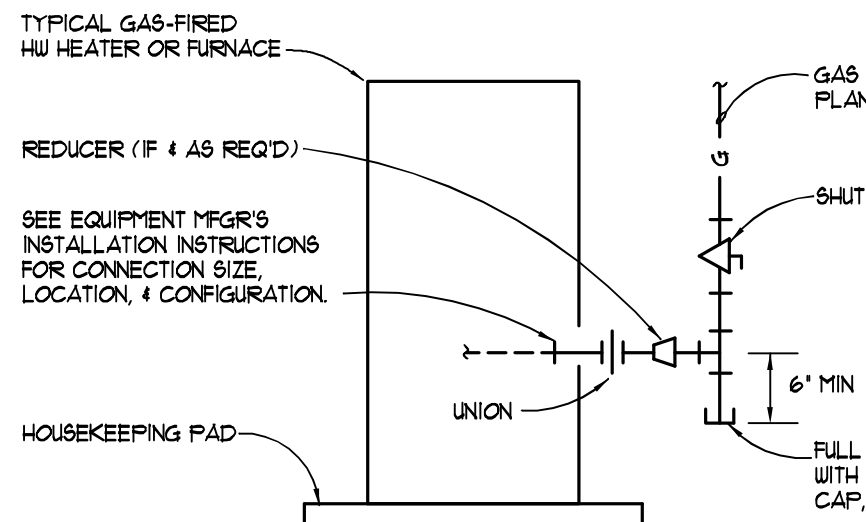
1st. Flr. Domestic Water & Gas Plumbing Plan
3/16"=1'-0" NORTH



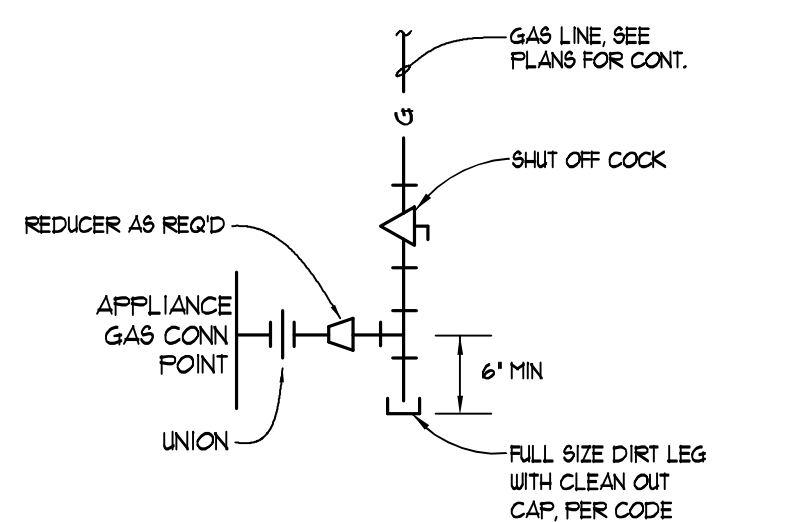
Gas Meter Detail
Scale None



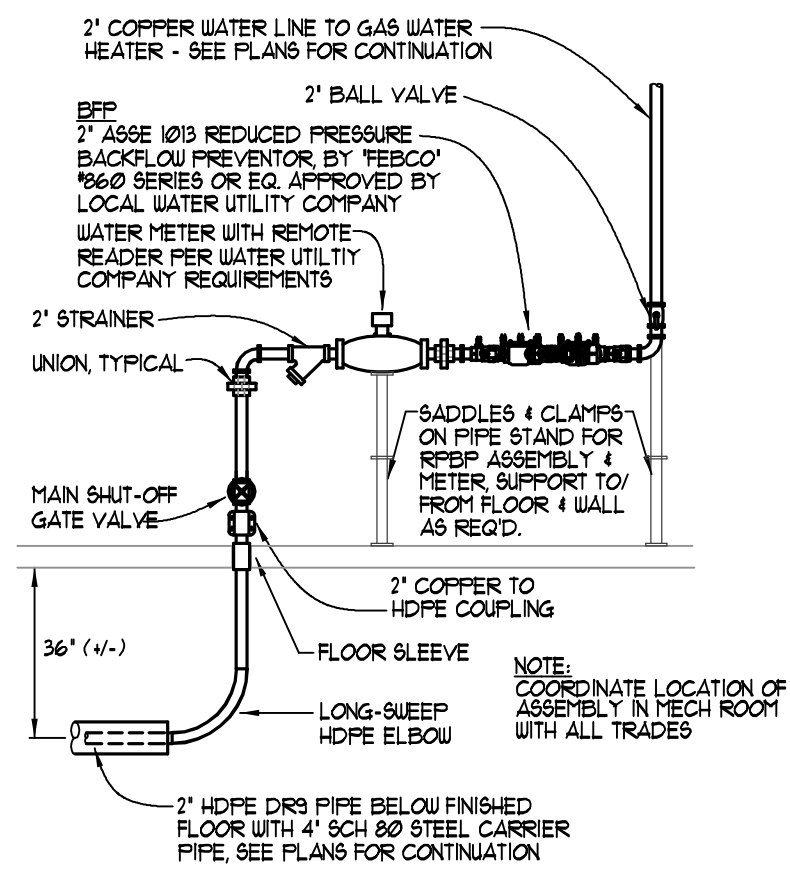
Typical HWH Detail
Scale None



Stationary Gas Appliance
Typical Connection Detail
Scale None



Gas Appliance
Typical Connection Detail
Scale None



Water Main Riser Detail
Scale None

Plumbing Fixtures Schedule

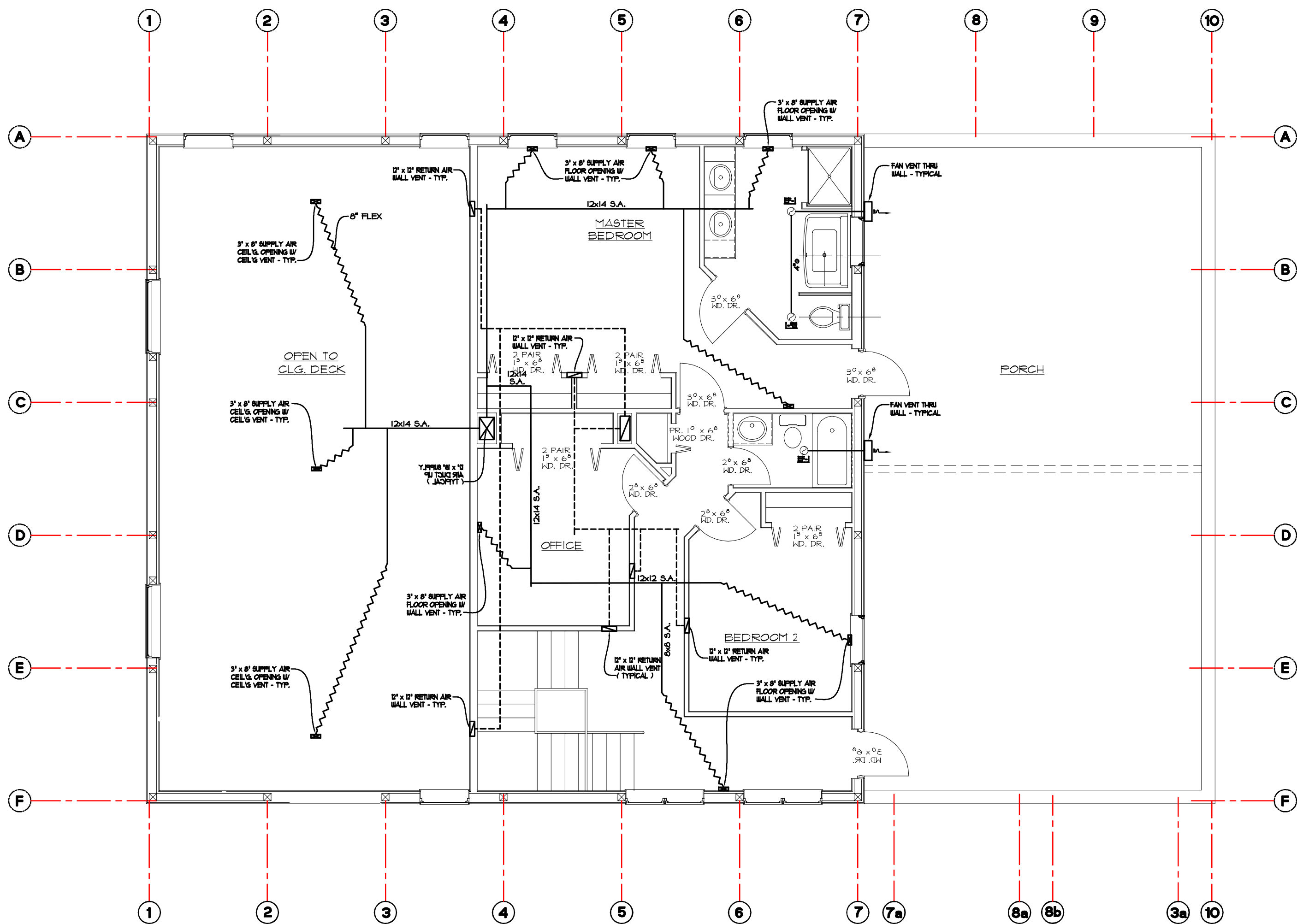
LAV-1	AMERICAN STANDARD 'AQUALITY' * 24 3/8" SELF-RIMMING COUNTERTOP LAVATORY WITH 4" FAUCET CENTERS. FAUCET SHALL BE MOEN 'STREAMLINE' MODEL 8400 CHROME. 4" CENTERSET WITH 4" SUPPLIES AND LEVER STYLE HANDLE. FURNISH CHROME STOPS, SUPPLIES AND A 1/4" OFFSET LAVATORY DRAIN WITH STAINLESS STEEL GRID AND 1/4" CHROME P-TRAP PROTECT TRAP. 4" SUPPLIES WITH TRAP UNRAIP KIT 500R BY BROCAE OR EQUAL.	ST-2	AQUATIC, ONE PIECE TUB/SHOWER 6'0" x 3'0" x 2'0". MODEL 166086L. WHIP 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 'LUSTERTONE' * LR3322 (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 TAILPIECE 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" HORIZONTAL GARBAGE DISPOSER. FUTURE DISPOSAL SHALL BE FURNISHED WITH ALL STANDARD FEATURES INCLUDING 3 YEAR WARRANTY AND POWER CORD.	SPD	SHOWER FLOOR DRAIN 'SIQUX CHIEF' * 864 SERIES' (OR EQUAL) WITH ABS GRATE. SEE PLANS AND RISER 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 10230 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.	HWH	GAS FIRED WATER HEATER EQUAL TO 'STATE, FROLINE', ATMOSPHERIC VENT ENERGY SAVER WATER HEATER' MODEL 125X-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 * 2002.014" 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.	CC	WALL OR FLOOR CLEANOUT 'SIQUX CHIEF' * 891 SERIES' (OR EQUAL) ADJUSTABLE CLEANOUT WITH NO-HUB CONNECTION AND CAST-IRON COVER. SEE PLANS AND RISER DIAGRAMS FOR SIZES.
WBT	'AMERICAN STANDARD' FREE STANDING ACRYLIC SOAKING TUB 60" x 36" x 21 1/2". MODEL 0711V002 (OR EQUAL) WITH INTEGRAL CENTER DRAIN. WIDE DECK. DRAIN OVERFLOW KIT MODEL *5810000.002 (OR EQUAL). DECK MOUNTED FAUCET TOUNSDEN MODEL *1553301	WHA	WATER HAMMER ARRESTERS SHALL BE WATTS SERIES 15 OR EQUAL. PROVIDE A BALL VALVE AND DIELECTRIC UNION WHERE APPLICABLE FOR DISSEMBLING 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.
		ED	FLOOR DRAIN 'SIQUX CHIEF' * 864 SERIES' (OR EQUAL) WITH DUCTIRON GRATE. SEE PLANS AND SANITARY ISOMETRIC FOR SIZES.

Site Utility Notes:

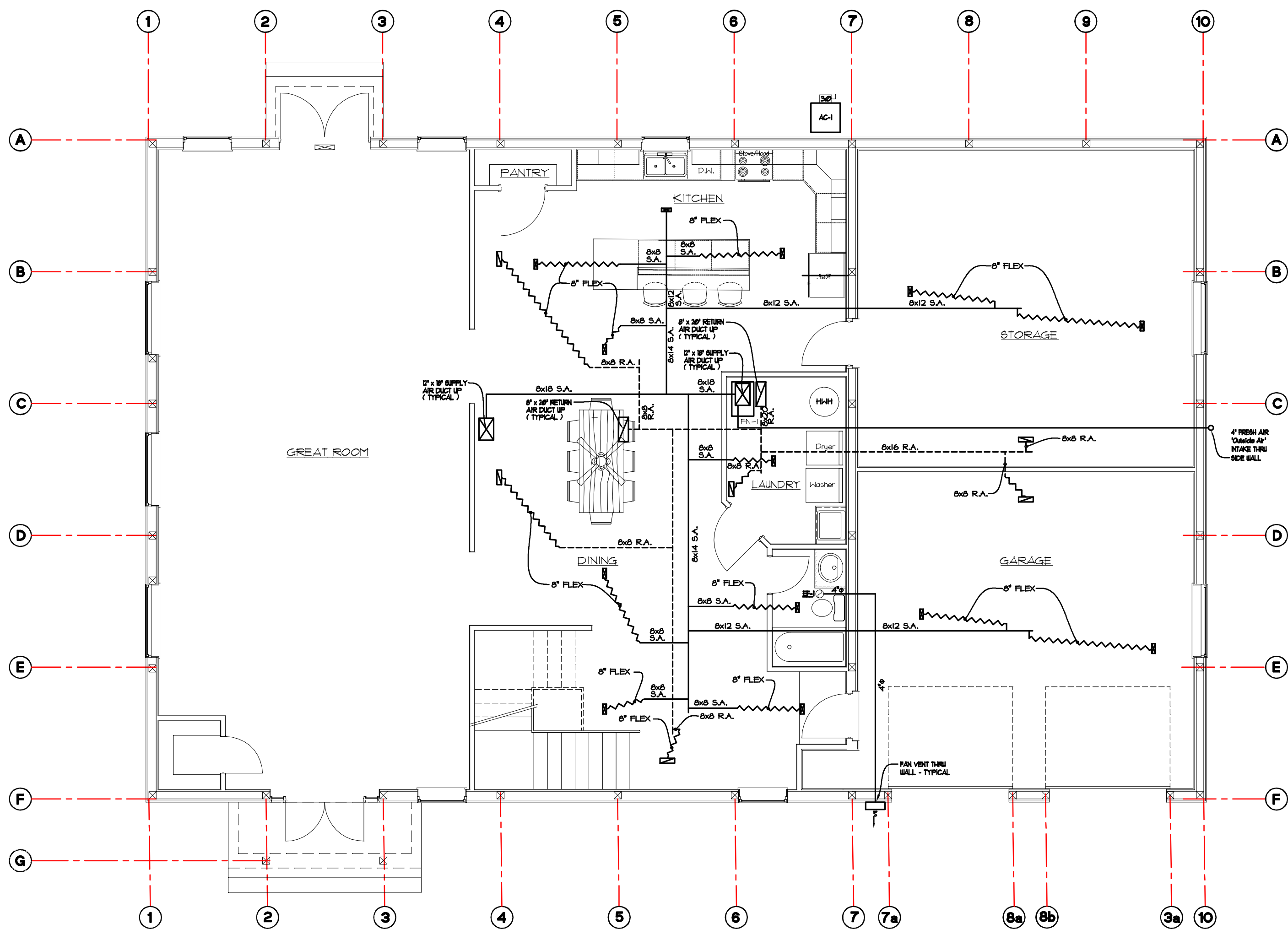
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- SANITARY LINES SHALL BE SCH. 40 OR SDR-35 PVC @ 1/8" / FT. SLOPE
- UTILITY TRENCHES SHALL BE BACKFILLED AND COMPACTED IN MAX. 10" LIFTS. #10 LIMESTONE SHALL BE USED AS BACKFILL IN PAVEMENT AREAS AS NOTED. OTHER AREAS MAY BE BACKFILLED & COMPACTED 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)

Plumbing General Notes:

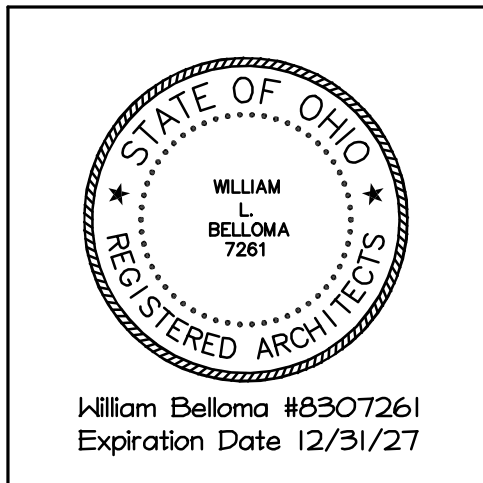
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- THIS CONTRACTOR SHALL INCLUDE ALL CONNECTIONS (WATER, SANITARY, VENT, GAS, ETC.) REQUIRED BY ALL FIXTURES AND EQUIPMENT FOR THE PROJECT. WHETHER SUPPLIED BY THIS CONTRACTOR, OTHER SUBSTRATES OR THE OWNER. ALL ROUGH-IN SHALL BE AS REQUIRED BY THE 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.
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- 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" 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 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 NORTH
 $\frac{3}{16}" = 1' - 0"$



2nd Floor HVAC Plan NORTH
 $\frac{3}{16}" = 1' - 0"$



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 JUDGEMENT 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 HERE-IN 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 DESCRIBED HEREIN. UNLESS 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 APPROPRIATE CODE 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 DECKING. 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 SHACNA MANUAL. SEAL PER SHACNA 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 SHACNA MANUAL. SEAL PER SHACNA SEAL CLASS 1A.
- ALL EXHAUST DUCTWORK SERVING HIGH MOISTURE/WATER AREAS SHALL BE CONSTRUCTED 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 SHACNA MANUAL. SEAL PER SHACNA 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 5'-0".

B. HVAC GENERAL SCOPE AND MATERIALS CONTINUED

- ALL ROUND DUCT ELBOWS SHALL BE LONG SWEEP 1/2 TIMES THE CENTERLINE RADIUS UNLESS CLEARANCE IS NOT AVAILABLE AT WHICH TIME MITERED ELBOWS WITH TURNING VANES SHALL BE UTILIZED.
- ALL RECTANGULAR ELBOWS SHALL BE FURNISHED WITH DOUBLE THICKNESS TURNING VANES. TURNING VANES SHALL BE FASTENED WITH A DOUBLE ROW
- INTERNALLY INSULATE WITH 1" THICK 15# DENSITY ACQUSTICAL INSULATION (AIR SIDE BLACK COATED TO MEET NFPA) ALL DUCTWORK NOTED AS REQUIRING SUCH. INSULATION BY OUBENS-CORNING, KNAUF, OR MANVILLE IS ACCEPTABLE. INTERNAL INSULATION SHALL BE INSTALLED PER THE REQUIREMENTS OF THE SHACNA GUIDE AND THE MANUFACTURER'S RECOMMENDATIONS.
- ALL SUPPLY AIR DUCTWORK NOT INTERNALLY LINED SHALL BE UNWRAPPED WITH 1/2" OF 0.15 LB/CUFT. FIBERGLASS ROL BACKED DUCT WRAPPING INSULATION. INSTALLATION SHALL BE PER MANUFACTURER'S RECOMMENDATIONS AND SHALL MAINTAIN THE INTEGRITY OF THE VAPOR BARRIER. INSULATION BY OUBENS-CORNING, KNAUF, OR MANVILLE IS ACCEPTABLE. MAINTAIN ACCESS TO BALANCING DAMPERS.
- INSTALL FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET OF ALL AIR MOVING EQUIPMENT. FLEXIBLE CONNECTIONS TO 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.
- MITERED 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.
- SPLITTER 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 LOOKING 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 ROSELLE, ILL. INSULATED (R-42) UL 181 RATED AND CLASS 1 AIR CONNECTOR. MAXIMUM LENGTH OF FLEXIBLE DUCT TO DIFFUSER TO BE 5'-0".
- FIRE DAMPERS SHALL BE EQUAL TO RUSKIN AND BE INSTALLED PER MANUFACTURER'S AND SHACNA REQUIREMENTS FOR A UL APPROVED INSTALLATION. FIRE DAMPERS SHALL BE TYPE 'B' (BLADES AND FRAME COMPLETELY OUT OF THE AIRSTREAM) AND SHALL BE INSTALLED WITH THE APPROPRIATE WALL SLEEVE AND ANGLES. 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 FUSIBLE 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.
- ALL EQUIPMENT SHALL BE LABELED WITH THE UNIT NUMBER AND DATE OF INSTALLATION STENCILED ON TWO SIDES OF THE UNIT WITH 1" HIGH 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 SHACNA AND INDUSTRY STANDARDS.
- AN INDEPENDENT 'TAPCO' OR 'NEBS' 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 SHEAVE 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. 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 ELEC, 10 YEAR PARTS WARRANTY, HEAT EXCHANGER LIMITED LIFETIME WARRANTY, MODEL #A952V080UB4S4B OR EQUAL.
- AC-1 "TRAN" A4AC, 15.2 SEER 2, 4 TON R410A, 30A 208/230V/60, SINGLE PHASE, CONDENSER, MODEL #A4AC4048D1000A OR EQUAL.
- COIL "TRAN" OR EQUAL CASED COIL TO MATCH FURNACE AND CONDENSER PROVIDED PER MANUFACTURER RECOMMENDATIONS & SAFECIFICATION.
- 2 THERMOSTAT FOR 2 ZONE SYSTEM HONEYWELL - VISION PRO 8000 PROGRAMMABLE LOCKABLE TOUCHSCREEN MODEL WITH10101003 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, & 24x24
 - RETURN GRILLES - CONTINENTAL OR EQUAL FLOOR/CEILING 4x12, 6x12, 16x16, & 24x24
 - OUTSIDE AIR "OA" - 4" PIPE TO EXTERIOR MINIMUM 10'-0" FROM ANY EXHAUST.
 - FILTER STANDARD 1" THROW AWAY
- EF-1 EXHAUST FANS "GREENHECK" CEILING MOUNTED RESTROOM EXHAUST WITH AUTOMATIC SENSOR LIGHT FAN MODEL HSP-AP05114L AT 0.165" SP, 110 CFM, 2.0 ZONES, SINGLE PHASE, 115V, 60 AMP, 60 HERTZ, 16.3 WATTS OR EQ. FURNISH WITH STANDARD DISCONNECT, INSTALLED ON A 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.

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

- ALL H.V.A.C. 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 LOCATION, 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 & SHACNA STANDARDS) CODES/REQUIREMENTS.

H.V.A.C. Legend

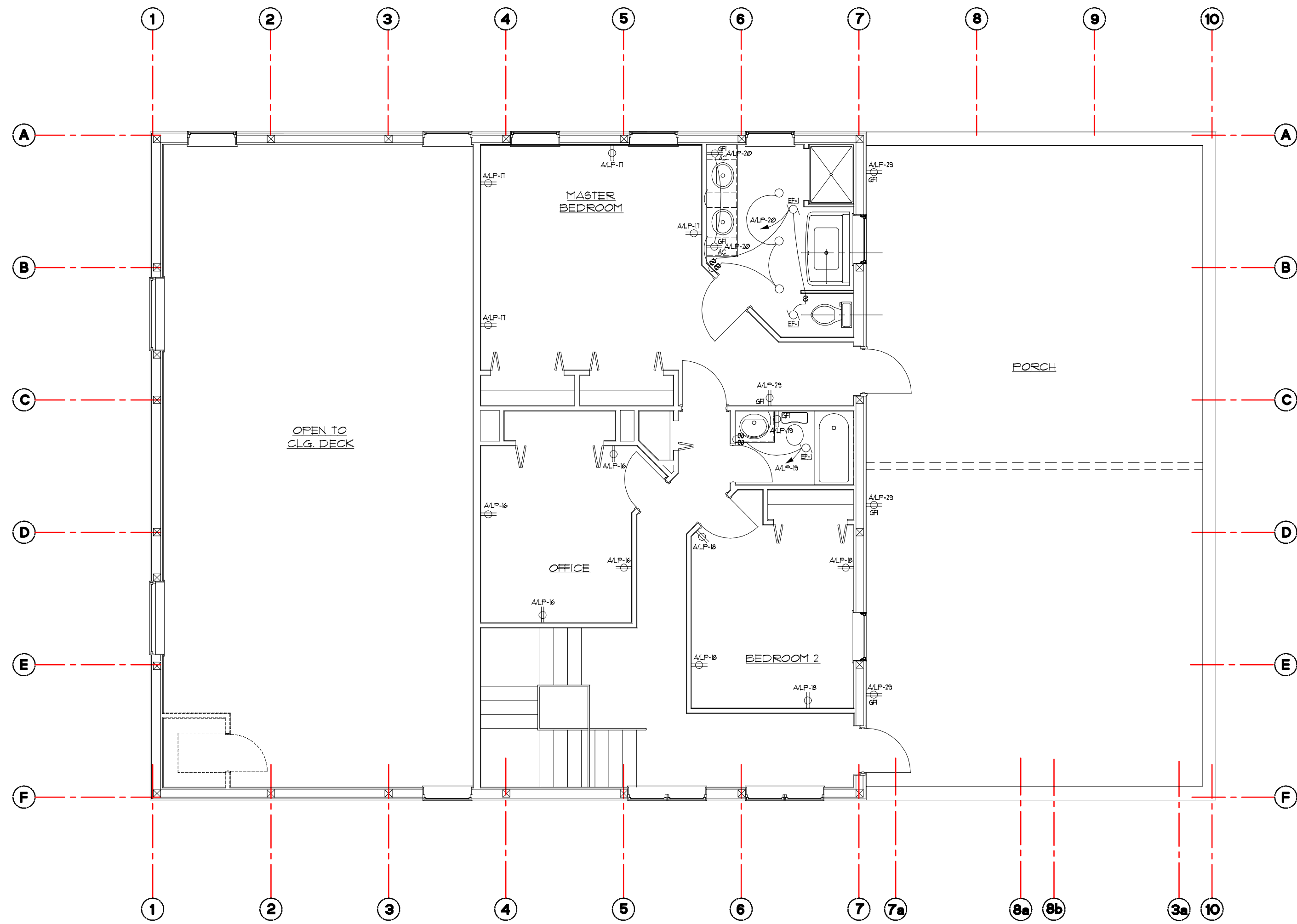
- SUPPLY AIR/DIFFUSER
- RETURN AIR EGG CRATE
- THERMOSTAT (SENSOR)
- ROOF MOUNTED EXHAUST FAN

Belloma Consulting
 6828 Canal Blvd. #404 Maple Gl. 44130 216980-9048
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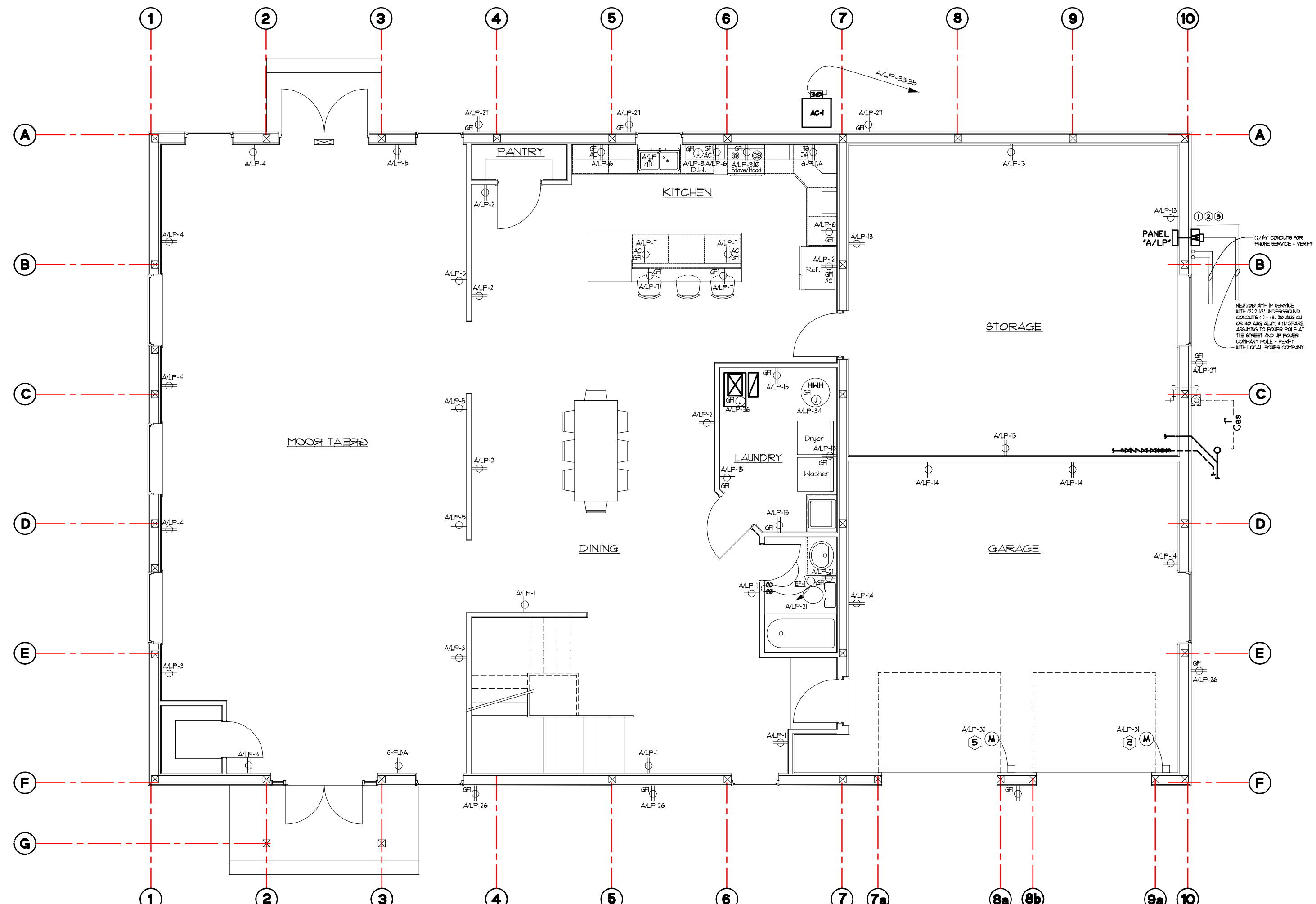
DWG. NO.

MEP-3
 DATE March 31, 2026

REVISION



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'-6" 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 18" 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 66 DATA OUTLET FLUSH MOUNTED 18" 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 "BOMEX" RUN IN WALLS OR ABOVE CEILINGS WITH A GROUND WIRE IN EACH CIRCUIT, TYPICAL.
- INDICATES ELECTRICAL DEVICE TO BE MOUNTED ABOVE COUNTER.
- INDICATES ELECTRICAL DEVICE TO BE GROUND FAULT INTERRUPTER.
- INDICATES ELECTRICAL DEVICE TO BE WEATHER-PROOF.
- INDICATES NEW ELECTRICAL PANEL BOX WITH 42 CIRCUIT BREAKER CAPACITY
- FIXTURE WITH OCCUPANCY SENSOR

Electrical Notes:

- NEW 200A/120/240/1X3251 WEATHERPROOF ENCLOSED C.B. GROUNDED WITH 3/4" COPPER ROD TO NEW STRUCTURE'S MAIN PANELBOX.
- NEW 200 AMP O.E. METER BASE SERVICE MAST AND WEATHER HEAD PER ONE LINE DIAGRAM - VERIFY WITH LOCAL ELECTRIC COMPANY.
- NEW THREE (3) UNDERGROUND PVC CONDUIT TO EXISTING ELECTRIC POWER POLE PER LOCAL ELECTRIC COMPANY REQUIREMENTS.
- ALL EQUIPMENT CONNECTIONS TO JUNCTION BOX SHALL BE PER MANUFACTURER REQUIREMENTS. (JUNCTION BOX TO BE MIN. 6" x 6")
- 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:

- NEW 10 120/240V 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.
- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH LOCAL, STATE (O.B.C.), NATIONAL (NEC 2023) CODES/REQUIREMENTS.
- ALL 20 AMP BREAKERS SHALL USE #12 WIRE. 30 AMP BREAKERS #10 WIRE & 60 AMP BREAKERS #6 WIRE PER N.E.C., 2017
- ALL EMERGENCY/EXIT LIGHTS SHALL BE ON SAME BRANCH CIRCUIT AS NORMAL LIGHTING CONFORMING TO N.E.C., 2017
- 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 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 'A/LP'

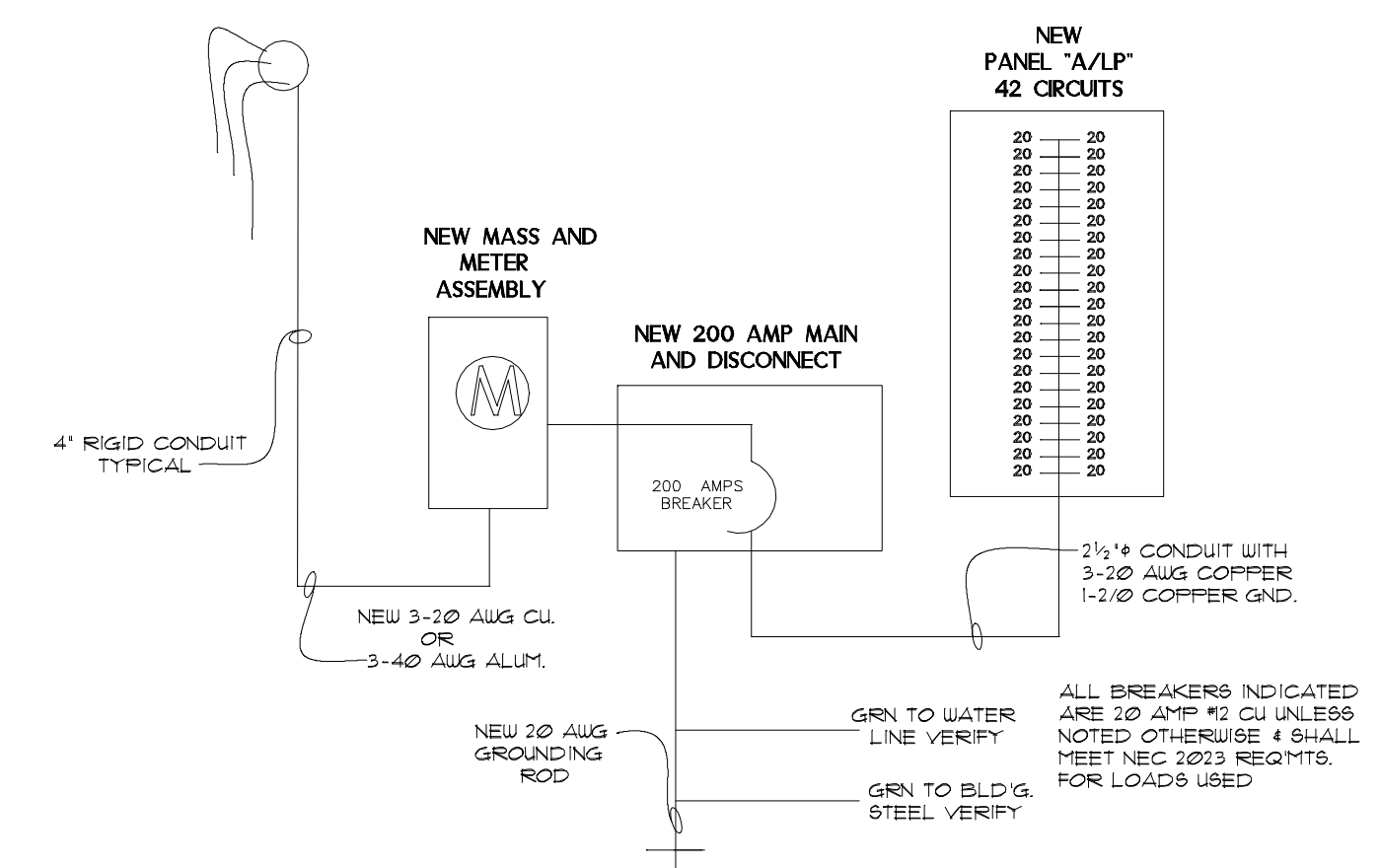
DINING RECEPTACLES	1200 WATTS	1	2	1200 WATTS	DINING RECEPTACLES
GREAT RM. RECEPTACLES	1200 WATTS	3	4	1200 WATTS	GREAT RM. RECEPTACLES
GREAT RM. RECEPTACLES	1200 WATTS	5	6	1200 WATTS	KITCHEN RECEPTACLES
KITCHEN RECEPTACLES	1200 WATTS	7	8	200 WATTS	DISHWASHER
OVEN/STOVE	300 WATTS	9	10	500 WATTS	ZLINE HOOD/EXHAUST 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 5 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	750 WATTS	KITCHEN LIGHTING
1st. FLR./2nd. FLR. HALL LIGHTING & FAN	1200 WATTS	23	24	1000 WATTS	2nd. FLR. BEDRMS. 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	800 WATTS	HOT WATER HEATER (HWH)
CONDENSER	314 WATTS	35	36	725 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



as Applicable



- 1 NEW 200/4" COPPER RND /11X32SI WEATHERPROOF ENCLOSED C.B. GROUNDED WITH 3/4" COPPER ROD TO NEW STRUCTURES 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 LOCAL ELECTRIC COMPANY.

I. NEW 1Ø 120/240 SERVICE TO BE INSTALLED FOR POWER AND LIGHTING LAYOUT DESIGN INDICATED ON ELECTRICAL DRAWING. THE ELECTRICAL LAYOUT INDICATED THIS DWG ARE SCHEMATIC THE FINAL LAYOUT MAY VARY DUE TO EXISTING CONDITIONS AND ACTUAL EQUIPMENT/DEVICES

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 DETECTOR WITH BATTERY BACK-UP HARD-WIRED TOGETHER TO PRIMARY ELECTRICAL PANEL LOCATED IN BASEMENT TYPICAL.

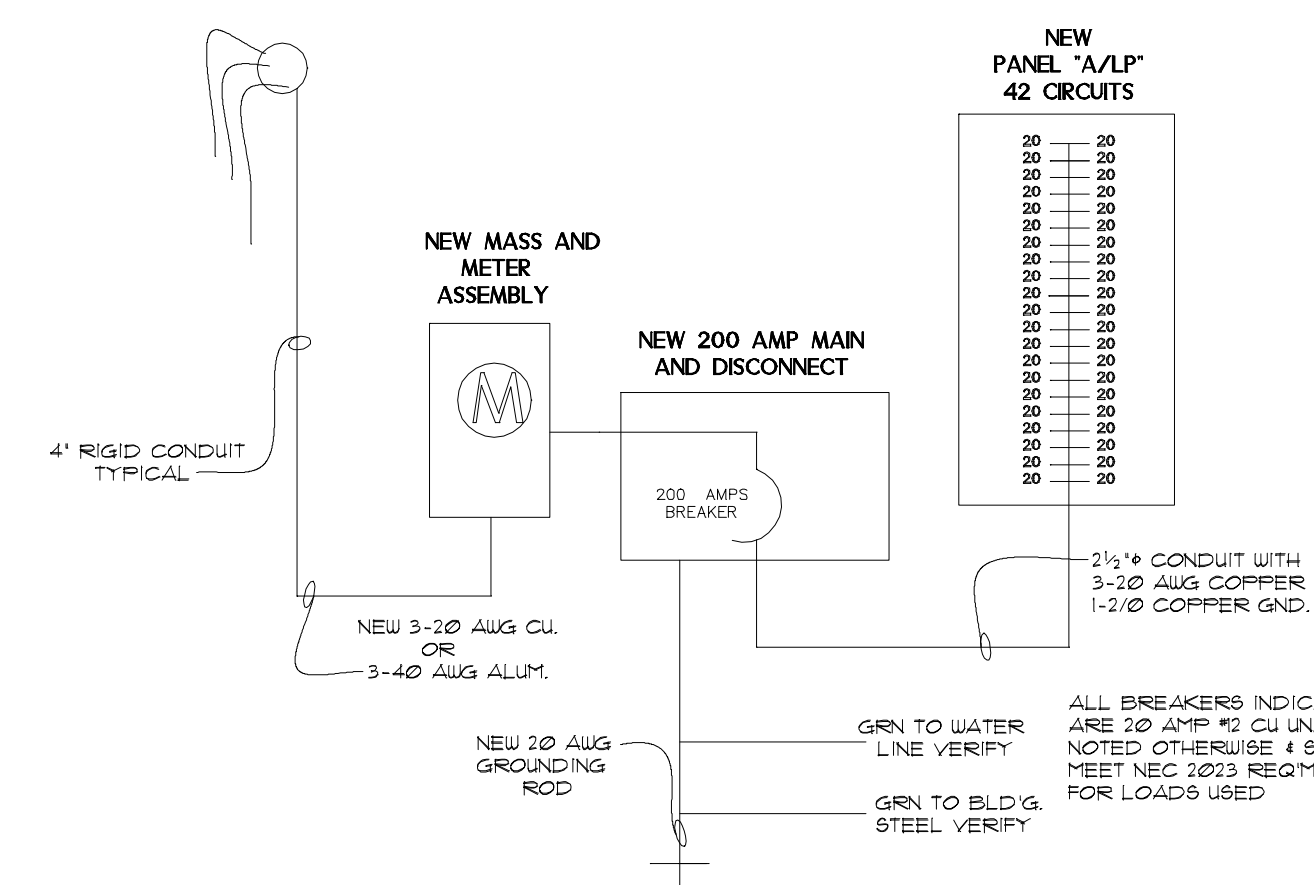
CO = CARBON MONOXIDE & PHOTOELECTRIC DETECTOR
ALL OTHERS = PHOTOELECTRIC DETECTOR

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	FLINE 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 #3 RECEPTACLES
MASTER BEDROOM RECEPTACLES	1200 WATTS	17	18	1200 WATTS	BEDROOM #2 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	750 WATTS	KITCHEN LIGHTING
1st. FLR./2nd. FLR. HALL LIGHTING 4 FAN	1200 WATTS	23	24	1000 WATTS	2nd. FLR. BEDRM'S. LIGHTING/FANS
GREAT RM. LIGHTING	1000 WATTS	25	26	FUTURE	9PARE
1st. FLR. EXTERIOR RECEPTACLE	1200 WATTS	27	28	FUTURE	9PARE
2nd. FLR. EXTERIOR RECEPTACLES	1200 WATTS	29	30	FUTURE	1st./2nd. FLR. EXTERIOR LIGHTING
OH DOOR POWER	797 WATTS	31	32	797 WATTS	OH DOOR POWER
CONDENSER	314 WATTS	33	34	800 WATTS	HOT WATER HEATER (HWH)
CONDENSER	314 WATTS	35	36	125 WATTS	FURNACE (FN-1)
9PARE	FUTURE	37	38	FUTURE	9PARE
9PARE	FUTURE	39	40	FUTURE	9PARE
9PARE	FUTURE	41	42	FUTURE	9PARE

$\phi_A = 18,464 \text{ W}$
 $\phi_B = 15,608 \text{ W}$
 $T = 34,072 \text{ W} = 141.97 \text{ AMPS}$

PANEL 'A/LP' (NEW)
120/240V-1ø-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.



NOT SCALE

Belloma Consulting 
5322 Cornell Blvd. Northridge, CA 91340 (818) 360-9808
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or modified without the consent of WLB Architect.

DWG. NO.

MEP-5

DATE **March 31, 2026**

REVISION.



















To: City of Hudson

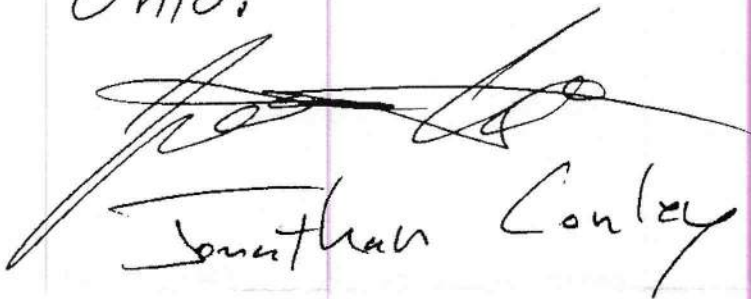
I, Zamir Bektic, owner of the property located at 1957 Norton Road, Hudson OH authorize Matthew Neff of M.Neff Consultants to represent me at City of Hudson public meetings.

Sincerely,

Zamir Bektic



Signed before me by Zamir Bektic on
February 13, 2026, in Summit County,
Ohio.



Jonathan Conley



WETLAND DELINEATION

**PARCEL NUMBER: 3001240
CITY OF HUDSON,
SUMMIT COUNTY, OHIO**

October 2025

Prepared for:

EBS Construction LLC
4642 Pebble Creek Court
Peninsula, Ohio 44264

Prepared by:



HZW Environmental
Consultants

6105 Heisley Road ♦ Mentor, Ohio 44060
440-357-1260 ♦ Fax 440-357-1510

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- Appendix C – Wetland Determination Data Forms

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- Table 1 – Summary of On-Site Wetlands
- Table 2 – Summary of On-Site Streams

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Appendices

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WETLAND DELINEATION

Parcel Number: 3001240
City of Hudson, Summit County, Ohio (H25345)

1.0 INTRODUCTION

On September 16, 2025, HZW Environmental Consultants, LLC (HZW) conducted a wetland delineation of Parcel Number 3001240 located in the City of Hudson, Summit County, Ohio (herein referred to as the “Study Area”). This study was conducted in accordance with HZW’s agreement with EBS Construction LLC (herein referred to as the “Client”).

1.1 Purpose

The primary purpose of this wetland delineation was to identify areas within the boundaries of the Study Area that meet the three (3) criteria of a wetland: hydrophytic vegetation, hydric soils and wetland hydrology and any other areas (streams, ponds, etc.) that are considered “waters of the United States” and “waters of the State of Ohio.”

1.2 Methods of Investigation

All investigative methods and field procedures were performed in accordance with the guidelines established in the Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0) (ERDC/EL TR-12-1; January 2012) and the 1987 Army Corps of Engineers (Corps) Manual, Technical Report Y-87-1, Field Guide for Wetland Delineation (1987 Manual). As required by the 1987 Manual, available reference materials were reviewed for the Study Area. These references included, but were not limited to, the 2025 Hudson, Ohio, National Wetlands Inventory (NWI) map published online by the United States Fish and Wildlife Service; the 2023 Hudson, Ohio, United States Geological Survey (USGS) 7.5 Minute Topographic Quadrangle Map; the Web Soil Survey of Summit County, Ohio (Soil Survey) issued in 2025 by the United States Department of Agriculture (USDA); and a list of hydric soils published by the Natural Resource Conservation Service (NRCS) for Summit County.

The site investigation methods followed the “Areas Greater than 5 Acres in Size,” as described in Section D - Subsection 2 of the 1987 Manual. As a new plant community or change in hydrology was observed, a data point was established (designated “DP1” through “DP5”). At each data point, field conditions were evaluated and recorded to determine the presence or absence of hydrophytic vegetation, hydric soil conditions, and wetland hydrology. In addition, a photographic log was prepared for the Study Area during the site investigation activities. At any data point exhibiting all three (3) wetland criteria, the wetland area was assigned a letter designation (e.g., Wetland A) and the delineated boundary of the wetland area was flagged with consecutively numbered, pink and black striped field flagging. The location of each flag was mapped using an EOS® Arrow 100 Global Positioning System (GPS) unit. A discussion of the three (3) evaluation criteria of a wetland is presented below.

Hydrophytic Vegetation

Hydrophytic vegetation is the community of macrophytes that occur in areas where inundation or soil saturation is either permanent or of sufficient frequency and duration to exert a controlling influence on the plant species present. Hydrophytic vegetation is present when the plant community is dominated by species that can tolerate prolonged inundation or soil saturation during the growing season. Hydrophytic vegetation is determined by the wetland indicator status (Reed, 1998, or current approved list) of species that make up the plant community. Species in the facultative categories (FACW, FAC, and FACU) are recognized as occurring in both wetlands and non-wetlands to varying degrees. In general, wetlands are dominated mainly by species rated OBL, FACW, and FAC.

The dominant vegetation, representing the major landscape or vegetation units, was determined for each of the four strata (tree, sapling/shrub, herbaceous, and vine) within one or more sampling plots established in representative locations within each unit. Plot size is determined by the type of vegetation present in accordance with the following table.

Trees	30-foot radius	Herb	5-foot radius
Saplings/shrubs	15-foot radius	Woody Vines	30-foot radius

In general, percent cover for all species was estimated to determine abundance (dominance). For species determined to be dominant, the appropriate indicator status was assigned. If all dominant species across all strata were listed as OBL and/or FACW, the plot was determined to exhibit hydrophytic vegetation and a detailed comparison of all dominant species was not necessary to make this determination. If the plot is not dominated solely by OBL and FACW species across all strata, dominant species within all strata were then added to determine the percentage of wetland vegetation for each sample point. The hydrophytic vegetation criterion was determined to be met if greater than 50 percent of the dominant vegetation across all strata was indicative of hydrophytic vegetation.

Hydric Soils

Hydric soil is a soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper part of the soil profile. To determine the extent of hydric soils in the Study Area, soil samples were obtained at each data point or at a point proximal to a data point that best represents the estimated boundary of hydric/non-hydric soils based on other field observations. A standard Munsell soil color chart was used to determine the hue, value, and chroma of each soil sample. Soil samples were taken at a sufficient depth such that soil conditions immediately below the A horizon or at a depth of ten (10) inches, whichever is shallowest, can be observed. Criteria established by the National Technical Committee for Hydric Soils (1991 and 2006) were used to determine hydric soils. Hydric soil indicators including redox depletions (gley), low chroma colors with redox concentrations (mottles), histosols (organic matter accumulation - muck/peat), histic epipedons (organic soil over low chroma mineral soils), sulfidic odor, listing on a local hydric soils list, and listing on a national hydric soil list, are used to determine the presence of hydric soils.

Wetland Hydrology

Wetland hydrology indicators are used in combination with indicators of hydrophytic vegetation and hydric soils to determine whether an area is a wetland. Typically, vegetation and soils provide strong evidence that wetland hydrology is also present. Hydrology indicators provide evidence that the site has a *continuing* wetland hydrologic regime and confirm that an episode of inundation or soil saturation occurred recently. Hydrology indicators may provide little additional information about the timing, duration, or frequency of such events. Each data point was examined for the presence of primary and secondary hydrological indicators that indicate surface water or soil saturation, evidence of recent inundation, evidence of current or recent soil saturation, and other on-site conditions or data.



2.0 SITE DESCRIPTION

On September 16, 2025, Adam Behringer and Kathryn Tuscano, wetland ecologists with HZW, conducted a field investigation of the Study Area. The Study Area is approximately 6.0 acres in size and is located north of Norton Road in the City of Hudson, Summit County, Ohio. Currently, the Study Area consists of second growth forest with some patches of emergent vegetation. A site map depicting the location of the Study Area is included as **Figure 1** in **Appendix A**.

The Study Area is located within the Mud Brook Watershed (HUC 12: 041100020401) and is situated within the Erie/Ontario Drift and Lake Plain ecoregion.



3.0 FINDINGS

The findings of the background resources reviewed and field investigation conducted as part of the delineation activities are discussed separately.

3.1 Background Research

3.1.1 2025 Hudson, Ohio, National Wetlands Inventory (NWI) map

There is one stream feature which flows through the central portion of the Study Area. The majority of the stream is intermittent but a portion in the central portion is perennial. No other aquatic features are shown within the boundaries of the Study Area on the NWI map.

3.1.2 2023 Hudson, Ohio, USGS 7.5 Minute Topographic Quadrangle Map

The Hudson, Ohio, USGS 7.5-minute topographic quadrangle map indicates that the Study Area slopes gradually to the south. The minimum elevation is approximately 1,070 feet above National Geodetic Vertical Datum (NGVD), and the maximum elevation is approximately 1,100 feet above NGVD. The topographic quadrangle also indicates the presence of a pond in the central portion of the Study Area and an intermittent stream which runs north-south through the pond. The portion of the Hudson, Ohio, topographic quadrangle map depicting the Study Area is presented as **Figure 2** in **Appendix A**.

3.1.3 2025 Soil Survey of Summit County

The Soil Survey shows that the Study Area is underlain by four (4) soil types:

- ElB Ellsworth silt loam, 2 to 6 percent slopes.** This deep, gently sloping moderately-well drained soil is on knolls and side slopes parallel to drainageways. Included in mapping, particularly in less sloping areas where water from surrounding slopes accumulates, are small areas of the wetter, somewhat-poorly drained Mahoning soils. Slow permeability. Runoff is medium. This soil is mapped in the northeastern portion of the Study Area.
- Ho Holly silt loam.** This nearly level, poorly drained soil is on narrow flood plains and in strips on large flood plains. Included with this soil are small areas of very poorly drained Sloan soils, somewhat-poorly drained Orrville soils, areas where glacial till is within a depth of 40 inches and a few spots of soils that have a very dark gray surface layer as much as six (6) inches thick. Runoff is slow to ponded. Because these soils are in low areas along streams, they are subject to flooding. Permeability is moderately slow. This soil is mapped in the southeastern portion of the Property.
- MgA Mahoning silt loam, 0 to 2 percent slopes.** This soil is in areas between drainageways. Included in mapping are a few spots poorly drained Trumbull soils. Runoff is slow to ponded. Permeability is slow. This soil unit is mapped in the central western portion of the Study Area.

MgB Mahoning silt loam, 2 to 6 percent slopes. This soil is in convex areas on uplands. Included in mapping are a few spots of moderately eroded Mahoning silt loam. Also included, particularly where slopes are 4 to 6 percent, are spots of better drained Ellsworth soils. Runoff is medium to rapid. Permeability is slow. This soil unit is mapped in the majority of the Study Area.

There are no aquatic resources mapped in the boundaries of the Study Area.

3.1.4 *Hydric Soils List for Summit County*

According to the list of hydric soils for Summit County, Ho is considered a hydric soil with non-hydric components, and ElB, MgA and MgB are considered non-hydric soils with hydric components.



3.2 Field Investigation

3.2.1 Wetland Areas Delineated

Field investigation data gathered on September 16, 2025, identified two (2) areas within the boundaries of the Study Area that are classified as wetlands based on the presence of the three (3) wetland criteria (wetland hydrology, hydric soils, and hydrophytic vegetation). These areas are designated by HZW as “Wetland A” and “Wetland B”. The location of the wetlands and the location of the wetland data points (designated “DP1”, “DP3” and “DP4”) established during delineation activities is indicated on the aquatic resources map presented as **Figure 3A** in **Appendix A**. A map depicting the aquatic resources overlaying an aerial photograph is presented as **Figure 3B** in **Appendix A**. The photographic log prepared for the Study Area during the field investigation activities is included as **Appendix B**. The wetland determination data forms prepared for the Study Area are included as **Appendix C**. A description of the wetland areas identified within the boundaries of the Study Area is provided in **Table 1**, below.

Table 1 - Summary of On-Site Wetlands

Wetland Name	Cowardin Classification	Data Point	Photograph	Acres
A	Forested	1	1, 2	0.54
B	Forested	3, 4	5 - 8	1.02

**Represents on-site acreage*

3.2.2 Streams Delineated

There are three (3) streams located in the central and northern portions of the Study Area. A description of the streams is provided in **Table 2**, below.

Table 2 - Summary of On-Site Streams

Stream Name	Flow Regime	Length (ft)	Average Width (ft)	Acres	Photograph
1	Intermittent	1,126.08	3.0	0.078	11
2	Intermittent	67.48	3.0	0.005	NA
3	Intermittent	436.04	3.0	0.030	NA

**Represents on-site length*

3.2.3 *Non-Wetland Areas*

The data collected at the remaining data points did not meet all of the criteria of a wetland; therefore, these areas are considered non-wetland. Refer to the aquatic resources map presented as **Figure 3A** in **Appendix A** for the location the non-wetland data points and the wetland determination data forms included as **Appendix C** for more detailed information regarding the hydrology, soils, and vegetation found at the non-wetland data points.



4.0 CONCLUSIONS

In summary, two (2) areas within the Study Area were identified as containing hydrophytic vegetation, hydric soil, and wetland hydrology, and, therefore, are considered wetlands. Additionally, there are three (3) streams located on-site. Upon completion of the delineation, the location and configuration of the wetlands and streams located within the Study Area were mapped using an EOS® Arrow 100 GPS unit, which is capable of an accuracy of less than one (1) meter.

The Corps will make the final determination regarding jurisdiction of the identified aquatic resources during the affirmation process.



5.0 DISCUSSION OF FUTURE PERMITTING SCENARIOS

Based on the United States Supreme Court ruling (No. 99-1178), issued on January 9, 2001, it is HZW's understanding that those wetlands that are non-navigable, isolated, and intrastate may no longer be included in the Corps' jurisdiction. In order to inform the Client of all available scenarios pertaining to the development of the Study Area, discussions presented in this report are based on the wetland delineation activities being conducted in accordance with the 1987 Manual and the Regional Supplement, which evaluate wetland characteristics irrespective of whether the wetland area is considered to be non-isolated (federally-regulated) or isolated (state-regulated). Currently, the Corps is making jurisdictional determinations.

For most Nationwide Permits (NWP), if the impacts associated with the activity/development do not exceed 0.50 of an acre of non-isolated wetlands, coverage under an NWP is appropriate. (Note: all stream impacts must be converted to an acreage and added to the non-isolated wetland impacts; the total impact to all "waters of the U.S." must be under 0.50 of an acre to qualify for this coverage.) A pre-construction notification (NWP application) is required for coverage under most NWPs and compensatory mitigation is generally required.

If future development would impact greater than 0.50 of an acre of waters of the United States, a Section 404 Individual Permit from the Corps and a Section 401 Water Quality Certification from the Ohio EPA would be required prior to initiating construction activities. The Corps and Ohio EPA will likely require mitigation for all wetland and stream impacts.

For those wetlands that are only within the jurisdiction of the Ohio EPA, regulations have been developed as House Bill 231. Currently, if less than 0.50 of an acre of isolated wetland impacts are proposed, a General Isolated Wetland Permit (Level 1 Review) will be required prior to impacting those wetlands. Isolated wetland impacts over 0.50 of an acre will require a more detailed permitting process with the Ohio EPA. Compensatory mitigation will be required for any amount of isolated wetland impact.



6.0 RECOMMENDATIONS

Based on the findings presented above, HZW presents the following recommendations for consideration at the Study Area:

1. Submit one (1) copy of this wetland delineation report to the Corps for affirmation of the boundary of the wetland and jurisdictional determination of the aquatic resources located within the Study Area. Presently, the Corps is the agency responsible for conducting wetland affirmations and is providing written jurisdictional determinations.
2. Should impacts be anticipated to the wetlands and/or stream identified on site following a jurisdictional determination, obtain the appropriate permit from the Corps and/or Ohio EPA prior to impacting these areas.

Note: *Should the Corps desire to conduct a field affirmation, additional regulated waters may be identified within the boundaries of the Study Area based on differing field conditions than present during the time this delineation study was conducted.*



7.0 REFERENCES

A bibliography of references reviewed as part of this delineation is presented below.

7.1 Bibliography

1. Soil Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Soil Survey. Available online at <http://websoilsurvey.nrcs.usda.gov/>. Accessed [09/19/2025]
2. U. S. Fish and Wildlife Service. 2025. National Wetlands Inventory website. U.S. Department of the Interior, Fish and Wildlife Service, Washington, D.C. <http://www.fws.gov/wetlands> [09/19/2025]
3. *Topographic Map*, United States Geological Survey; 2023 Hudson, Ohio, USGS 7.5 Minute Topographic Quadrangle.
4. *Field Guide for Wetland Delineation*, United States Army Corps of Engineers, Technical Report Y-87-1, 1987.
5. *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region (Version 2.0)*, United States Army Corps of Engineers, ERDC/EL TR-12-01, 2012.
6. *List of Hydric Soils for Summit County*, Natural Resource Conservation Service.
7. *National List of Plant Species That Occur in Wetlands: Ohio*, Reed, Porter B., Jr., United States Fish and Wildlife Service, Saint Petersburg, 1988.
8. *Hydric Soils of the United States*, National Technical Committee for Hydric Soils, United States Department of Agriculture, Soil Conservation Service, Washington, 1991.

8.0 QUALIFICATIONS

This wetland delineation was conducted on September 16, 2025, by HZW's wetland ecologist, Adam Behringer. Data collection and report writing was completed by Kathryn Tuscano. The signatures of the environmental professionals responsible for the preparation of this report are provided below.



Adam Behringer
Project Manager



Kathryn Tuscano
Environmental Scientist



APPENDIX A

FIGURES 1-3

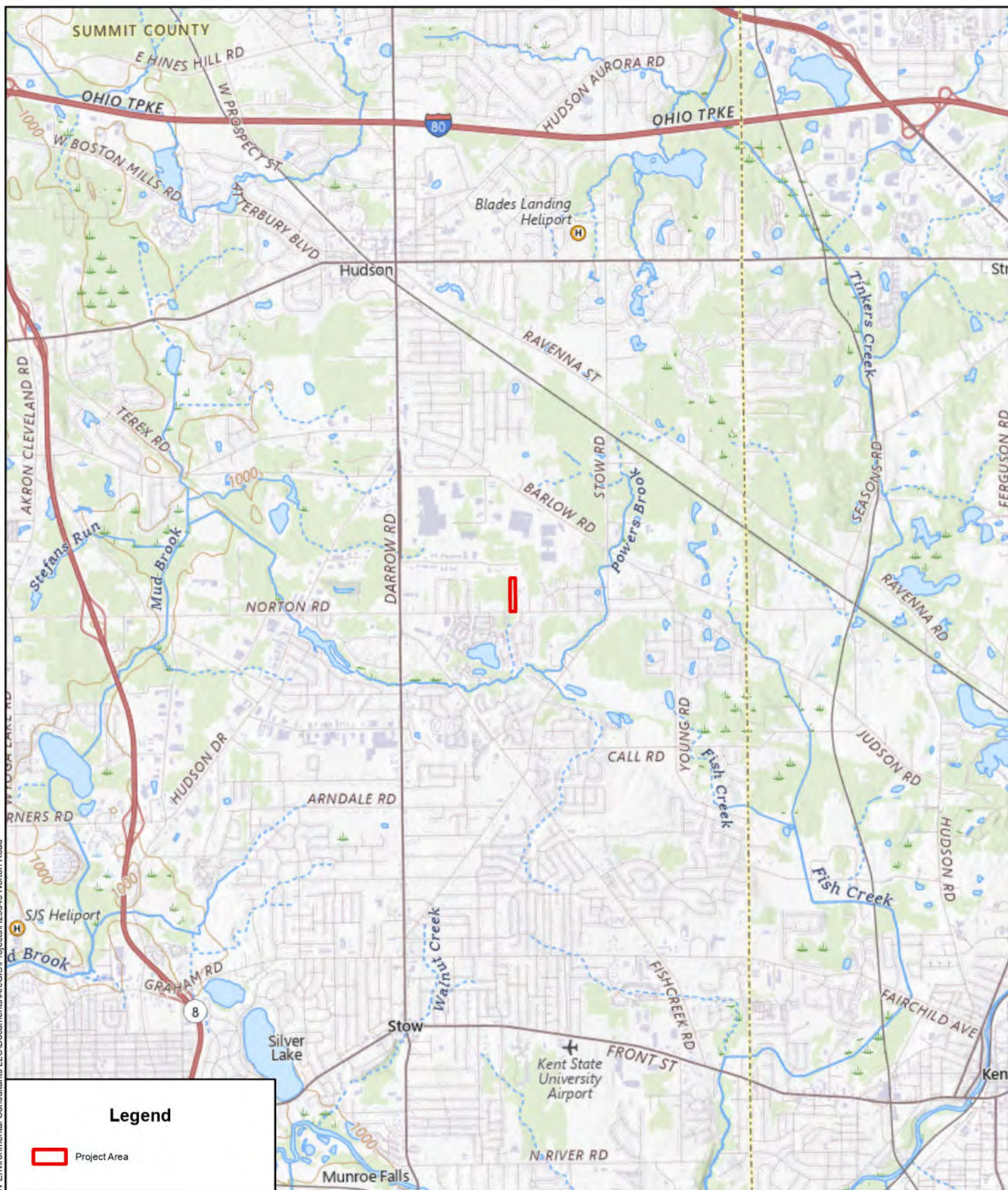
Figure 1 – Site Location Map

Figure 2 – USGS Topographic Map

Figure 3A – Aquatic Resources Map- White

Figure 3B – Aquatic Resources Map- Aerial





HZW Environmental Consultants
6105 Heisley Road
Mentor, Ohio 44060
(440) 357-1260

Scale: 1" = 5,000'



FIGURE 1

SITE LOCATION MAP
PARCEL NUMBER 3001240
CITY OF HUDSON, SUMMIT COUNTY, OHIO

Path: C:\Users\ktuscano\OneDrive - HZW Environmental Consultants LLC\Documents\ArcGIS\Projects\H25345 Norton Road



Legend

 Project Area



HZW Environmental
Consultants

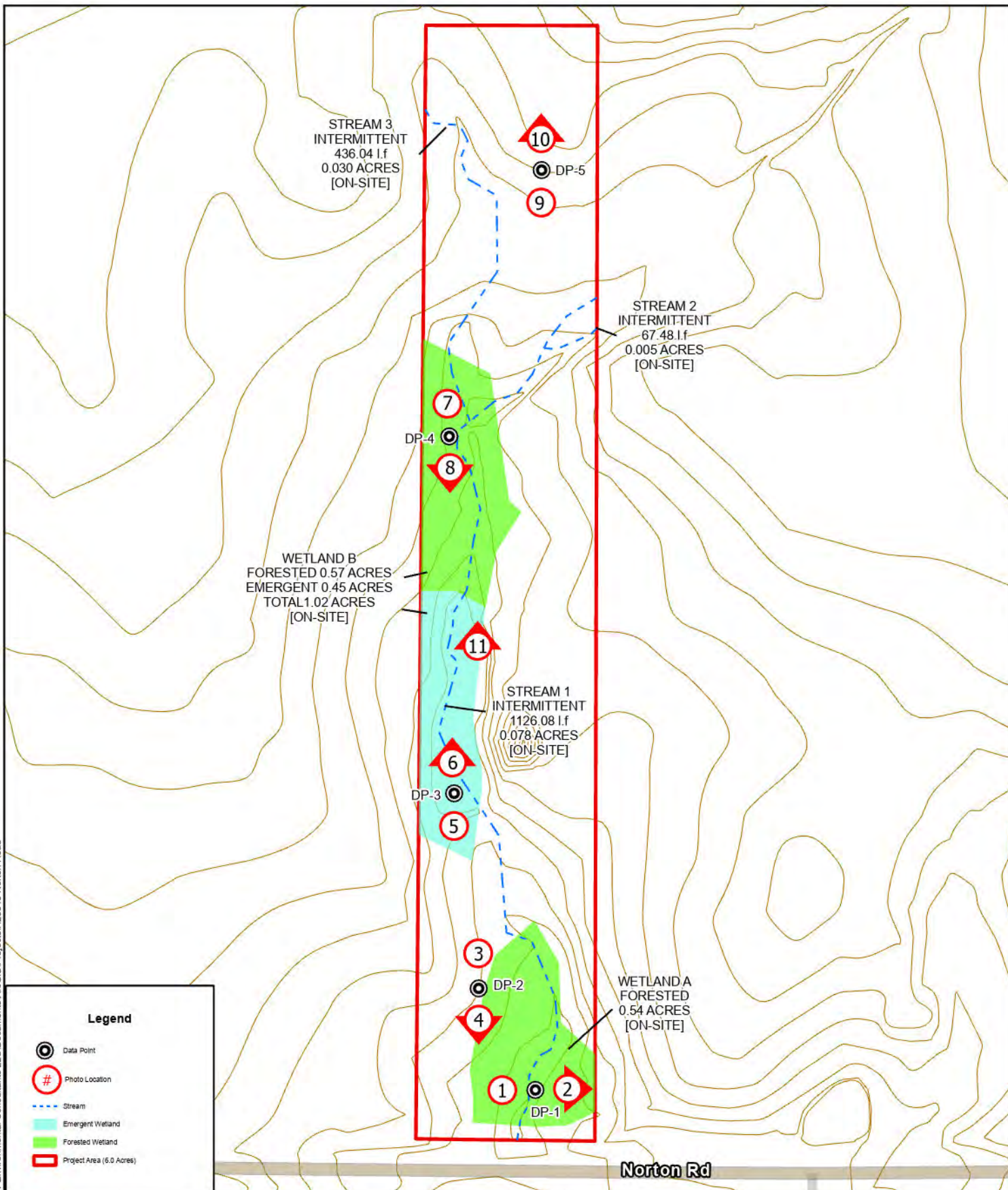
HZW Environmental Consultants
6105 Heisley Road
Mentor, Ohio 44060
(440) 357-1260

Scale: 1" = 250'



FIGURE 2

TOPOGRAPHIC MAP
PARCEL NUMBER 3001240
CITY OF HUDSON, SUMMIT COUNTY, OHIO



HZW Environmental Consultants
6105 Heisley Road
Mentor, Ohio 44060
(440) 357-1260

Scale: 1" = 200'



FIGURE 3A
AQUATIC RESOURCES MAP (WHITE)
PARCEL NUMBER 3001240
CITY OF HUDSON, SUMMIT COUNTY, OHIO



HZW Environmental Consultants
6105 Heisley Road
Mentor, Ohio 44060
(440) 357-1260

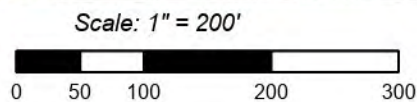


FIGURE 3B
AQUATIC RESOURCES MAP (AERIAL)
PARCEL NUMBER 3001240
CITY OF HUDSON, SUMMIT COUNTY, OHIO

APPENDIX B

PHOTOGRAPHIC LOG





Photograph 1
Soil profile at Data Point 1 (Wetland A).



Photograph 2
View facing east depicting site conditions at Data Point 1 (Wetland A).



Photograph 3
Soil profile at Data Point 2 (non-wetland).



Photograph 4
View facing south depicting site conditions at Data Point 2 (non-wetland).



Photograph 5
Soil profile at Data Point 3 (Wetland B).



Photograph 6
View facing north depicting site conditions at Data Point 3 (Wetland B).



Photograph 7
Soil profile at Data Point 4 (Wetland B).



Photograph 8
View facing south depicting site conditions at Data Point 4 (Wetland B).



Photograph 9
Soil profile at Data Point 5 (non-wetland).



Photograph 10
View facing north depicting site conditions at Data Point 5 (non-wetland).



Photograph 11
View facing north depicting site conditions at Stream 1.

APPENDIX C

WETLAND DETERMINATION DATA FORMS



U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
--	---

Project/Site: North of Norton Road City/County: Hudson/Summit Sampling Date: 9/16/2025
Applicant/Owner: EBS Construction LLC State: OH Sampling Point: DP1
Investigator(s): AB & KMT Section, Township, Range: NA
Landform (hillside, terrace, etc.): Depression Local relief (concave, convex, none): Concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 41.203176 Long: -81.424558 Datum: NAD83
Soil Map Unit Name: MgB - Mahoning silt loam, 2 to 6 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Wetland A</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u>X</u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

 Sampling Point: DP1

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>5</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>4</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>5</u>	<u>=Total Cover</u>		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>5</u></td> <td>x 1 = <u>5</u></td> </tr> <tr> <td>FACW species <u>75</u></td> <td>x 2 = <u>150</u></td> </tr> <tr> <td>FAC species <u>30</u></td> <td>x 3 = <u>90</u></td> </tr> <tr> <td>FACU species <u>25</u></td> <td>x 4 = <u>100</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>135</u> (A)</td> <td><u>345</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>2.56</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>5</u>	x 1 = <u>5</u>	FACW species <u>75</u>	x 2 = <u>150</u>	FAC species <u>30</u>	x 3 = <u>90</u>	FACU species <u>25</u>	x 4 = <u>100</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>135</u> (A)	<u>345</u> (B)	Prevalence Index = B/A = <u>2.56</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>5</u>	x 1 = <u>5</u>																			
FACW species <u>75</u>	x 2 = <u>150</u>																			
FAC species <u>30</u>	x 3 = <u>90</u>																			
FACU species <u>25</u>	x 4 = <u>100</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>135</u> (A)	<u>345</u> (B)																			
Prevalence Index = B/A = <u>2.56</u>																				
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u>Rosa multiflora</u>	<u>15</u>	<u>Yes</u>	<u>FACU</u>																	
2. <u>Ligustrum vulgare</u>	<u>10</u>	<u>Yes</u>	<u>FACU</u>																	
3. <u>Lindera benzoin</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>30</u>	<u>=Total Cover</u>																		
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Phalaris arundinacea</u>	<u>60</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Solidago rugosa</u>	<u>10</u>	<u>No</u>	<u>FAC</u>																	
3. <u>Persicaria perfoliata</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
4. <u>Impatiens capensis</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
5. <u>Juncus effusus</u>	<u>5</u>	<u>No</u>	<u>OBL</u>																	
6. <u>Verbena urticifolia</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
7. <u>Vernonia gigantea</u>	<u>5</u>	<u>No</u>	<u>FAC</u>																	
8. <u>Cyperus esculentus</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>100</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	_____	<u>=Total Cover</u>																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point	DP1
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[illegible]

VEGETATION – Use scientific names of plants.

 Sampling Point: DP2

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>1</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>50.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>20</u>	<u>=Total Cover</u>		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>5</u></td> <td>x 2 = <u>10</u></td> </tr> <tr> <td>FAC species <u>20</u></td> <td>x 3 = <u>60</u></td> </tr> <tr> <td>FACU species <u>95</u></td> <td>x 4 = <u>380</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>120</u> (A)</td> <td><u>450</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.75</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>5</u>	x 2 = <u>10</u>	FAC species <u>20</u>	x 3 = <u>60</u>	FACU species <u>95</u>	x 4 = <u>380</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>120</u> (A)	<u>450</u> (B)	Prevalence Index = B/A = <u>3.75</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>5</u>	x 2 = <u>10</u>																			
FAC species <u>20</u>	x 3 = <u>60</u>																			
FACU species <u>95</u>	x 4 = <u>380</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>120</u> (A)	<u>450</u> (B)																			
Prevalence Index = B/A = <u>3.75</u>																				
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>=Total Cover</u>																			
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Poa pratensis</u>	<u>90</u>	<u>Yes</u>	<u>FACU</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u>Problematic Hydrophytic Vegetation</u> ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Solidago gigantea</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
3. <u>Symphyotrichum ericoides</u>	<u>5</u>	<u>No</u>	<u>FACU</u>																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
	<u>100</u>	<u>=Total Cover</u>																		
Woody Vine Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
	<u>=Total Cover</u>																			
Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																				
				Hydrophytic Vegetation Present? Yes <u> </u> No <u> X </u>																
Remarks: (Include photo numbers here or on a separate sheet.)																				

SOIL

Sampling Point	DP2
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[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: North of Norton Road City/County: Hudson/Summit Sampling Date: 9/16/2025
Applicant/Owner: EBS Construction LLC State: OH Sampling Point: DP3
Investigator(s): AB & KMT Section, Township, Range: NA
Landform (hillside, terrace, etc.): depression Local relief (concave, convex, none): concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 41.204112 Long: -81.424899 Datum: NAD83
Soil Map Unit Name: MgA - Mahoning silt loam, 0 to 2 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u>X</u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u>X</u> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u>X</u> No <u> </u> Depth (inches): <u>0</u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

 Sampling Point: DP3

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. _____	_____	_____	_____	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
			=Total Cover	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 40%;">Total % Cover of:</th> <th style="width: 60%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>70</u></td> <td>x 1 = <u>70</u></td> </tr> <tr> <td>FACW species <u>30</u></td> <td>x 2 = <u>60</u></td> </tr> <tr> <td>FAC species <u>0</u></td> <td>x 3 = <u>0</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>100</u> (A)</td> <td><u>130</u> (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = <u>1.30</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>70</u>	x 1 = <u>70</u>	FACW species <u>30</u>	x 2 = <u>60</u>	FAC species <u>0</u>	x 3 = <u>0</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>100</u> (A)	<u>130</u> (B)	Prevalence Index = B/A = <u>1.30</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>70</u>	x 1 = <u>70</u>																			
FACW species <u>30</u>	x 2 = <u>60</u>																			
FAC species <u>0</u>	x 3 = <u>0</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>100</u> (A)	<u>130</u> (B)																			
Prevalence Index = B/A = <u>1.30</u>																				
			=Total Cover																	
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
			=Total Cover	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
			=Total Cover																	
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Leersia oryzoides</u>	<u>60</u>	<u>Yes</u>	<u>OBL</u>																	
2. <u>Phalaris arundinacea</u>	<u>25</u>	<u>Yes</u>	<u>FACW</u>																	
3. <u>Glyceria striata</u>	<u>5</u>	<u>No</u>	<u>OBL</u>																	
4. <u>Impatiens capensis</u>	<u>5</u>	<u>No</u>	<u>FACW</u>																	
5. <u>Persicaria sagittata</u>	<u>5</u>	<u>No</u>	<u>OBL</u>																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
			<u>100</u> =Total Cover																	
Woody Vine Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
			=Total Cover																	
Remarks: (Include photo numbers here or on a separate sheet.) 																				

SOIL

Sampling Point DP3

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: North of Norton Road City/County: Hudson/Summit Sampling Date: 9/16/2025
Applicant/Owner: EBS Construction LLC State: OH Sampling Point: DP4
Investigator(s): AB & KMT Section, Township, Range: NA
Landform (hillside, terrace, etc.): depression Local relief (concave, convex, none): concave Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 41.205238 Long: -81.424930 Datum: NAD83
Soil Map Unit Name: MgA - Mahoning silt loam, 0 to 2 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u>X</u> No <u> </u> If yes, optional Wetland Site ID: <u>Wetland B</u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u>X</u> No <u> </u>	

Remarks: (Explain alternative procedures here or in a separate report.)

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators</u> (minimum of one is required; check all that apply) <u> </u> Surface Water (A1) <u>X</u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u>X</u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators</u> (minimum of two required) <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u>X</u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
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Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u>X</u> No <u> </u>
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Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

VEGETATION – Use scientific names of plants.

 Sampling Point: DP4

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Acer rubrum</u>	<u>40</u>	<u>Yes</u>	<u>FAC</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>100.0%</u> (A/B)																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
	<u>40</u>	<u>=Total Cover</u>		Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>0</u></td> <td>x 2 = <u>0</u></td> </tr> <tr> <td>FAC species <u>60</u></td> <td>x 3 = <u>180</u></td> </tr> <tr> <td>FACU species <u>0</u></td> <td>x 4 = <u>0</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>60</u> (A)</td> <td><u>180</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.00</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>0</u>	x 2 = <u>0</u>	FAC species <u>60</u>	x 3 = <u>180</u>	FACU species <u>0</u>	x 4 = <u>0</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>60</u> (A)	<u>180</u> (B)	Prevalence Index = B/A = <u>3.00</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>0</u>	x 2 = <u>0</u>																			
FAC species <u>60</u>	x 3 = <u>180</u>																			
FACU species <u>0</u>	x 4 = <u>0</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>60</u> (A)	<u>180</u> (B)																			
Prevalence Index = B/A = <u>3.00</u>																				
<u>Sapling/Shrub Stratum</u> (Plot size: <u>15</u>)				Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>X</u> <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u>Problematic Hydrophytic Vegetation¹ (Explain)</u> ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
1. <u>Crataegus crus-galli</u>	<u>20</u>	<u>Yes</u>	<u>FAC</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
	<u>20</u>	<u>=Total Cover</u>																		
<u>Herb Stratum</u> (Plot size: <u>5</u>)				Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height. Hydrophytic Vegetation Present? Yes <u>X</u> No _____																
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
		<u>=Total Cover</u>																		
<u>Woody Vine Stratum</u> (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		<u>=Total Cover</u>																		

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point DP4

[illegible]

U.S. Army Corps of Engineers WETLAND DETERMINATION DATA SHEET – Northcentral and Northeast Region See ERDC/EL TR-12-1; the proponent agency is CECW-CO-R	OMB Control #: 0710-0024, Exp: 9/30/2027 Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
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Project/Site: North of Norton Road City/County: Hudson/Summit Sampling Date: 9/16/2025
Applicant/Owner: EBS Construction LLC State: OH Sampling Point: DP5
Investigator(s): AB & KMT Section, Township, Range: NA
Landform (hillside, terrace, etc.): flat Local relief (concave, convex, none): none Slope %: 2
Subregion (LRR or MLRA): LRR R Lat: 41.206067 Long: -81.424535 Datum: NAD83
Soil Map Unit Name: EIB - Ellsworth silt loam, 2 to 6 percent slopes NWI classification: None
Are climatic / hydrologic conditions on the site typical for this time of year? Yes X No (If no, explain in Remarks.)
Are Vegetation N, Soil N, or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No
Are Vegetation N, Soil N, or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>	Is the Sampled Area within a Wetland? Yes <u> </u> No <u>X</u> If yes, optional Wetland Site ID: <u> </u>
Hydric Soil Present? Yes <u>X</u> No <u> </u>	
Wetland Hydrology Present? Yes <u> </u> No <u>X</u>	
Remarks: (Explain alternative procedures here or in a separate report.)	

HYDROLOGY

Wetland Hydrology Indicators: <u>Primary Indicators (minimum of one is required; check all that apply)</u> <u> </u> Surface Water (A1) <u> </u> Water-Stained Leaves (B9) <u> </u> High Water Table (A2) <u> </u> Aquatic Fauna (B13) <u> </u> Saturation (A3) <u> </u> Marl Deposits (B15) <u> </u> Water Marks (B1) <u> </u> Hydrogen Sulfide Odor (C1) <u> </u> Sediment Deposits (B2) <u> </u> Oxidized Rhizospheres on Living Roots (C3) <u> </u> Drift Deposits (B3) <u> </u> Presence of Reduced Iron (C4) <u> </u> Algal Mat or Crust (B4) <u> </u> Recent Iron Reduction in Tilled Soils (C6) <u> </u> Iron Deposits (B5) <u> </u> Thin Muck Surface (C7) <u> </u> Inundation Visible on Aerial Imagery (B7) <u> </u> Other (Explain in Remarks) <u> </u> Sparsely Vegetated Concave Surface (B8)	<u>Secondary Indicators (minimum of two required)</u> <u> </u> Surface Soil Cracks (B6) <u> </u> Drainage Patterns (B10) <u> </u> Moss Trim Lines (B16) <u> </u> Dry-Season Water Table (C2) <u> </u> Crayfish Burrows (C8) <u> </u> Saturation Visible on Aerial Imagery (C9) <u> </u> Stunted or Stressed Plants (D1) <u> </u> Geomorphic Position (D2) <u> </u> Shallow Aquitard (D3) <u> </u> Microtopographic Relief (D4) <u> </u> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Water Table Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> Saturation Present? Yes <u> </u> No <u>X</u> Depth (inches): <u> </u> (includes capillary fringe)	Wetland Hydrology Present? Yes <u> </u> No <u>X</u>
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:	
Remarks:	

VEGETATION – Use scientific names of plants.

 Sampling Point: DP5

Tree Stratum (Plot size: <u>30</u>)	Absolute % Cover	Dominant Species?	Indicator Status																	
1. <u>Quercus alba</u>	<u>75</u>	<u>Yes</u>	<u>FACU</u>	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>66.7%</u> (A/B)																
2. <u>Acer rubrum</u>	<u>15</u>	<u>No</u>	<u>FAC</u>																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		<u>90</u>	=Total Cover	Prevalence Index worksheet: <table style="width: 100%;"> <tr> <th style="width: 50%;">Total % Cover of:</th> <th style="width: 50%;">Multiply by:</th> </tr> <tr> <td>OBL species <u>0</u></td> <td>x 1 = <u>0</u></td> </tr> <tr> <td>FACW species <u>10</u></td> <td>x 2 = <u>20</u></td> </tr> <tr> <td>FAC species <u>27</u></td> <td>x 3 = <u>81</u></td> </tr> <tr> <td>FACU species <u>76</u></td> <td>x 4 = <u>304</u></td> </tr> <tr> <td>UPL species <u>0</u></td> <td>x 5 = <u>0</u></td> </tr> <tr> <td>Column Totals: <u>113</u> (A)</td> <td><u>405</u> (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = <u>3.58</u></td> </tr> </table>	Total % Cover of:	Multiply by:	OBL species <u>0</u>	x 1 = <u>0</u>	FACW species <u>10</u>	x 2 = <u>20</u>	FAC species <u>27</u>	x 3 = <u>81</u>	FACU species <u>76</u>	x 4 = <u>304</u>	UPL species <u>0</u>	x 5 = <u>0</u>	Column Totals: <u>113</u> (A)	<u>405</u> (B)	Prevalence Index = B/A = <u>3.58</u>	
Total % Cover of:	Multiply by:																			
OBL species <u>0</u>	x 1 = <u>0</u>																			
FACW species <u>10</u>	x 2 = <u>20</u>																			
FAC species <u>27</u>	x 3 = <u>81</u>																			
FACU species <u>76</u>	x 4 = <u>304</u>																			
UPL species <u>0</u>	x 5 = <u>0</u>																			
Column Totals: <u>113</u> (A)	<u>405</u> (B)																			
Prevalence Index = B/A = <u>3.58</u>																				
Sapling/Shrub Stratum (Plot size: <u>15</u>)																				
1. <u>Crataegus crus-galli</u>	<u>10</u>	<u>Yes</u>	<u>FAC</u>																	
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
		<u>10</u>	=Total Cover																	
Herb Stratum (Plot size: <u>5</u>)																				
1. <u>Fraxinus pennsylvanica</u>	<u>10</u>	<u>Yes</u>	<u>FACW</u>	Hydrophytic Vegetation Indicators: <u>1</u> - Rapid Test for Hydrophytic Vegetation <u>X</u> <u>2</u> - Dominance Test is >50% <u>3</u> - Prevalence Index is ≤3.0 ¹ <u>4</u> - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <u> </u> Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.																
2. <u>Nyssa sylvatica</u>	<u>1</u>	<u>No</u>	<u>FAC</u>																	
3. <u>Acer rubrum</u>	<u>1</u>	<u>No</u>	<u>FAC</u>																	
4. <u>Prunus serotina</u>	<u>1</u>	<u>No</u>	<u>FACU</u>																	
5. _____	_____	_____	_____																	
6. _____	_____	_____	_____																	
7. _____	_____	_____	_____																	
8. _____	_____	_____	_____																	
9. _____	_____	_____	_____																	
10. _____	_____	_____	_____																	
11. _____	_____	_____	_____																	
12. _____	_____	_____	_____																	
		<u>13</u>	=Total Cover																	
Woody Vine Stratum (Plot size: <u>15</u>)																				
1. _____	_____	_____	_____	Definitions of Vegetation Strata: Tree – Woody plants 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of height. Sapling/shrub – Woody plants less than 3 in. DBH and greater than or equal to 3.28 ft (1 m) tall. Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall. Woody vines – All woody vines greater than 3.28 ft in height.																
2. _____	_____	_____	_____																	
3. _____	_____	_____	_____																	
4. _____	_____	_____	_____																	
		_____	=Total Cover	Hydrophytic Vegetation Present? Yes <u>X</u> No <u> </u>																

Remarks: (Include photo numbers here or on a separate sheet.)

SOIL

Sampling Point	DP5
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[illegible]