

ARB Submission 5-8-2024  
 ARB Submission 5-14-2024  
 Remove Railing  
 Add New window @ Door

Dining & Porch Additions for:  
**Mr. & Mrs. Stephen Jerome Residence**

655 Robley Drive Mayfield Village, Ohio

General Contractor : Owner

- List Of Drawings  
 100 Cover Sheet  
 101 C1 Site Plan  
 A1 Proposed Views  
 A2 First Floor Plan  
 A3 Addition Plan  
 A4 Roof Plan  
 A5 Elevations  
 A6 Building Sections  
 A7 Cross Section  
 S1 Structural Notes  
 S2 First Floor Framing Plan  
 S3 Roof Framing Plan

Codes:  
 Ohio Residential Code  
 Mayfield Village Building & Zoning Codes  
 National Electric Code



① {3D}

View from Northwest

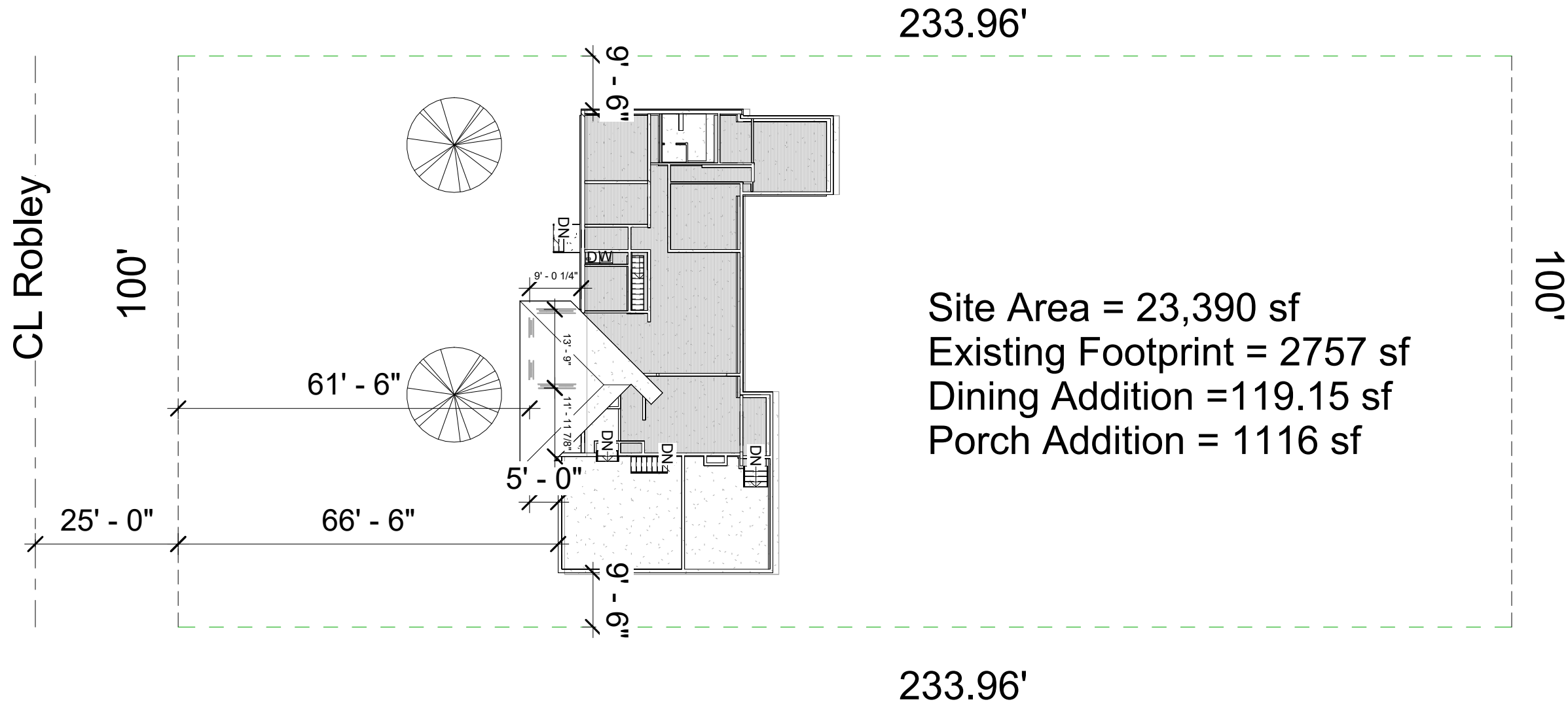


**Ann M. Dunning, A.I.A., Inc.**  
 129 Burlington Oval Drive, Chardon, Ohio 44024  
 Tel: 440-338-4750 Email: adunning65@att.net

**Steve & Allison Jerome Residence**  
 655 Robley Drive, Mayfield Village, OHio  
**Front Porch Addition**

No.	Description	Date

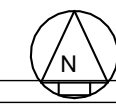
<b>Cover Sheet</b>		
Project number	Project Number	<b>100</b>
Date	12-7-2022	
Drawn by	Author	Scale
Checked by	Checker	



Site Area = 23,390 sf  
 Existing Footprint = 2757 sf  
 Dining Addition = 119.15 sf  
 Porch Addition = 1116 sf

1 Site Plan  
 1" = 20'-0"

Verified by 2011 survey  
 by John Skonieczny



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**Front Porch Addition**

No.	Description	Date

Site Plan		
Project number	Project Number	<b>C1</b>
Date	12-7-2022	
Drawn by	Author	Scale 1" = 20'-0"
Checked by	Checker	



West views of existing House



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No.	Description	Date

**Existing Photographs**

Project number	Project Number	<b>102</b>
Date	12-7-2022	
Drawn by	Author	Scale
Checked by	Checker	

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① View looking North East



② Viewing South East



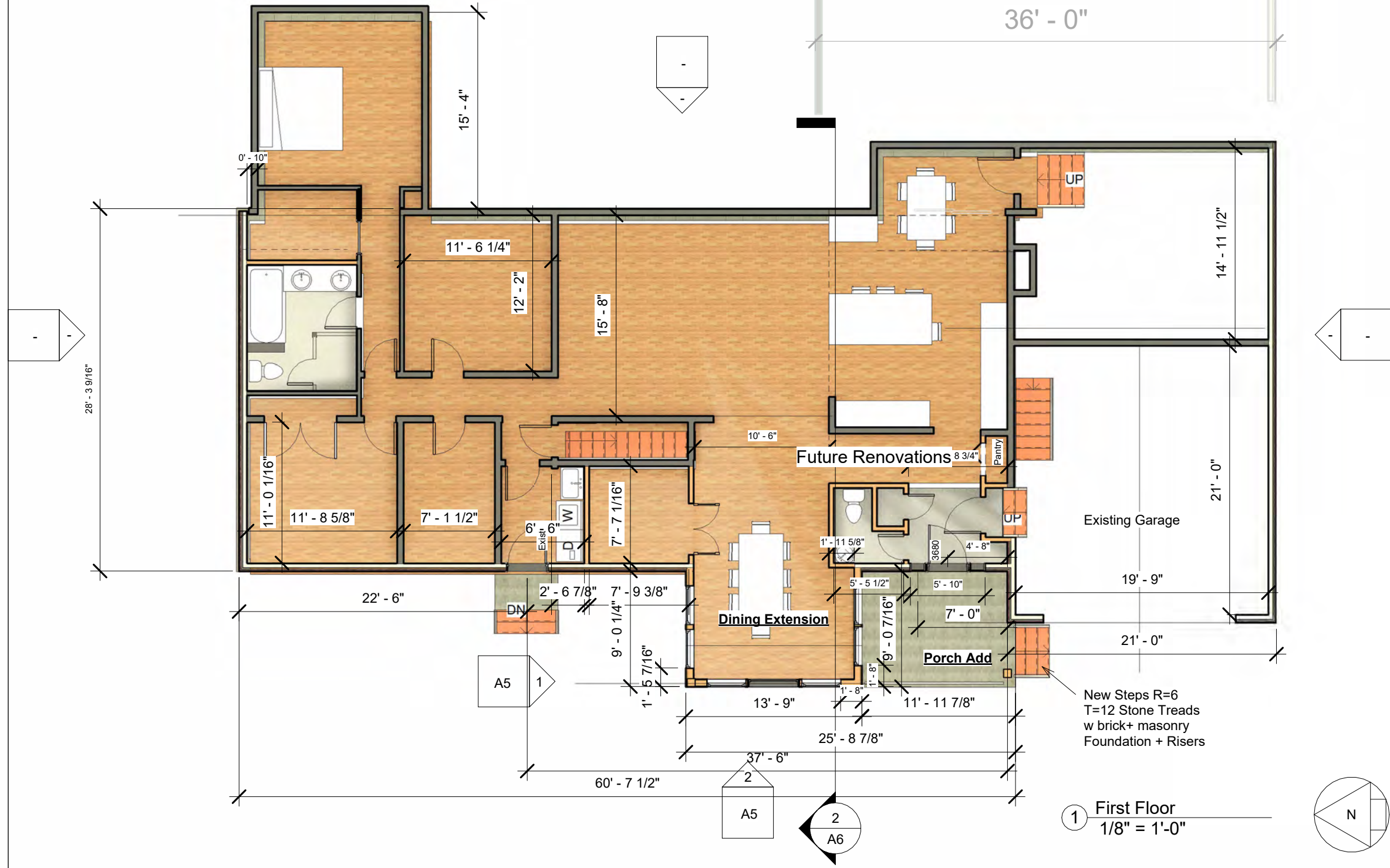
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No.	Description	Date

Proposed Street Views		
Project number	Project Number	<b>A1</b>
Date	12-7-2022	
Drawn by	Author	Scale
Checked by	Checker	



1 First Floor  
1/8" = 1'-0"



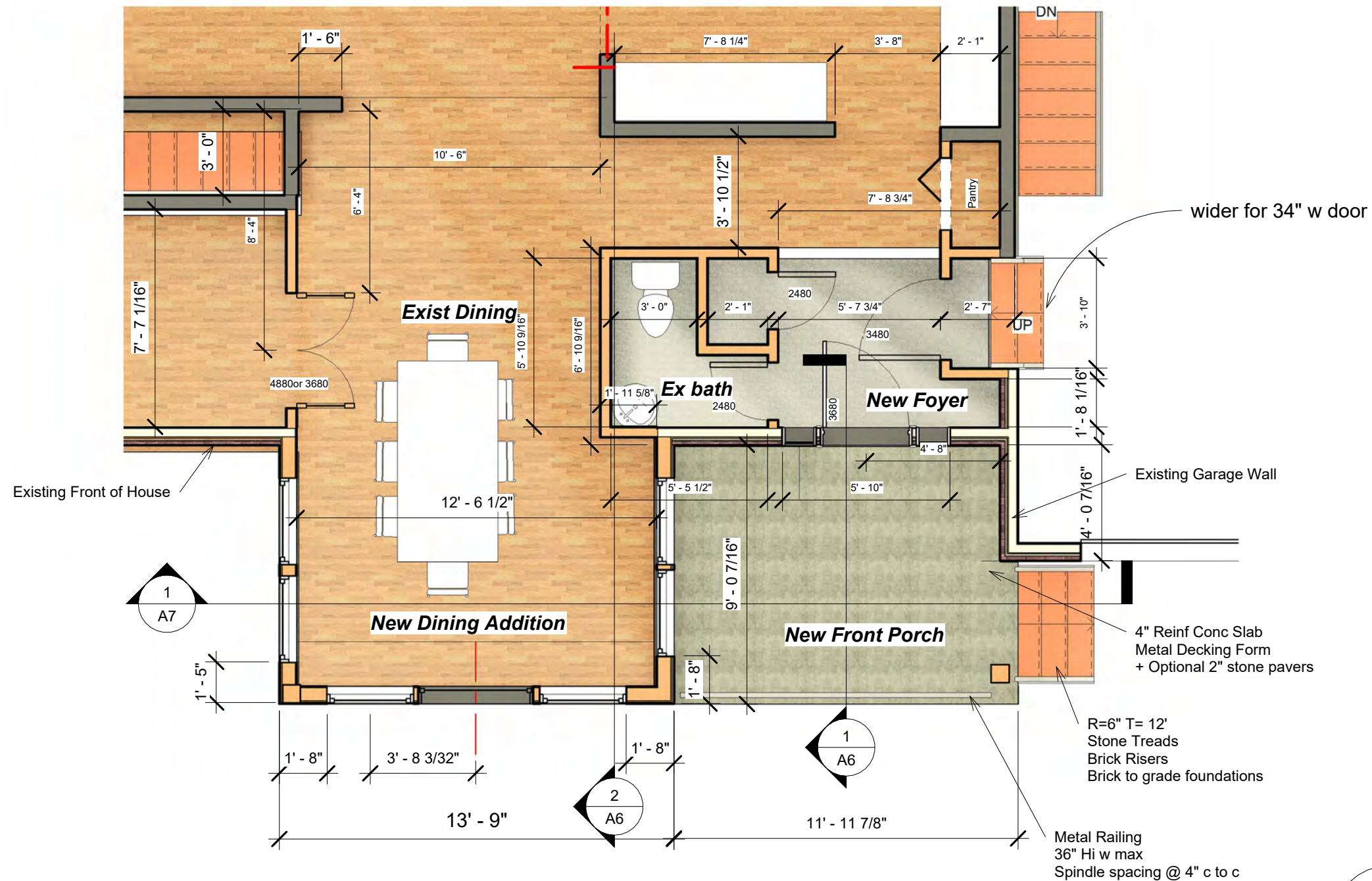
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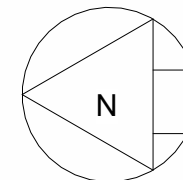
**Steve & Allison Jerome Residence**  
655 Robley Drive, Mayfield Village, Ohio  
**Front Porch Addition**

No.	Description	Date

First Floor Plan		
Project number	Project Number	<b>A2</b>
Date	12-7-2022	
Drawn by	Author	Scale 1/8" = 1'-0"
Checked by	Checker	



1 Porch Plan  
1/4" = 1'-0"

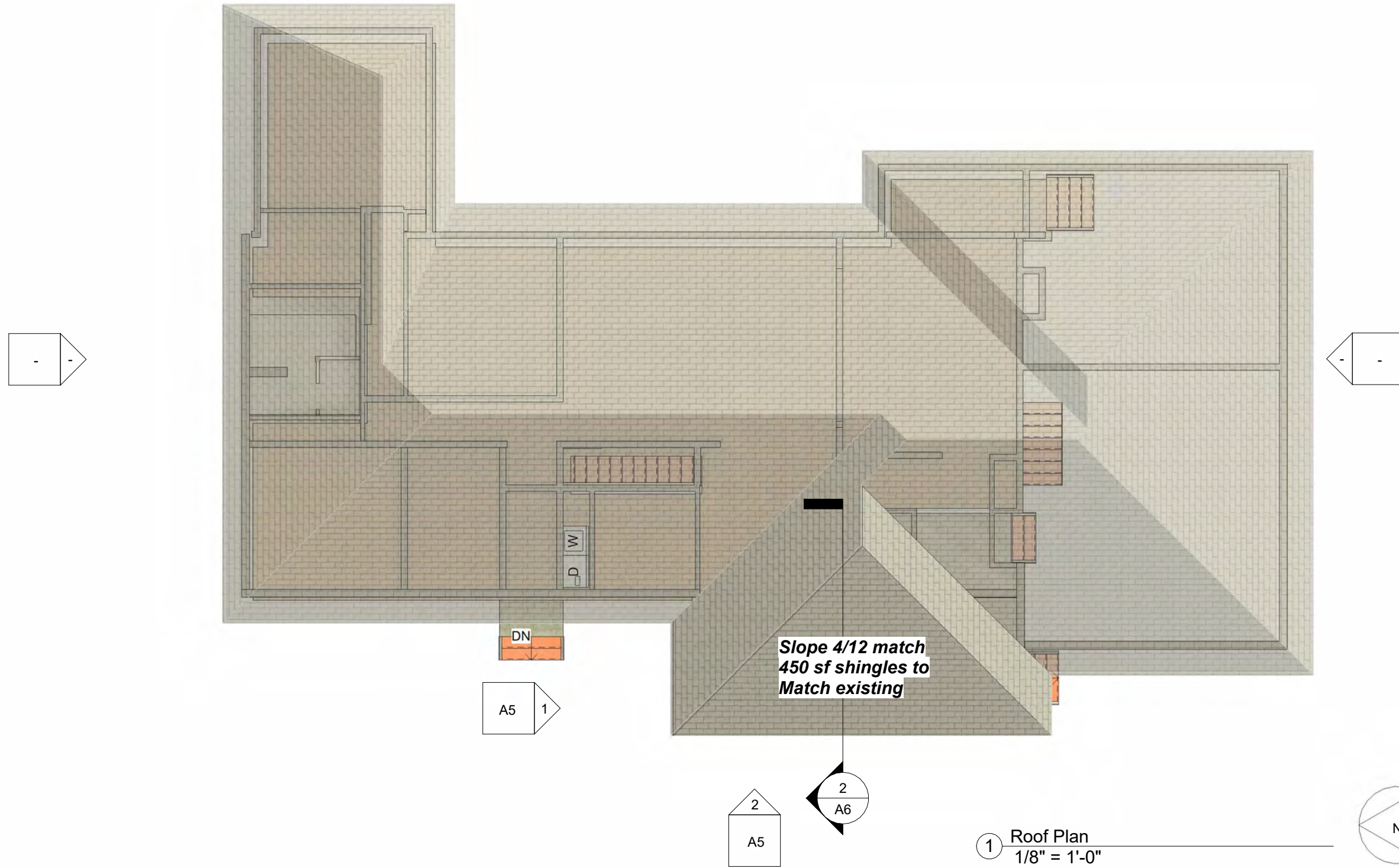


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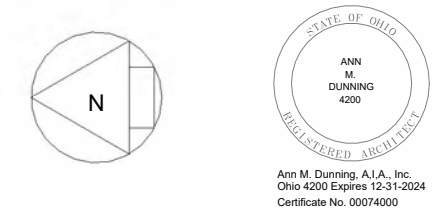
**Steve & Allison Jerome Residence**  
 655 Robley Drive, Mayfield Village, OHIO  
**Front Porch Addition**

No.	Description	Date

Addition Plan		
Project number	Project Number	<b>A3</b>
Date	12-7-2022	
Drawn by	Author	Scale 1/4" = 1'-0"
Checked by	Checker	



1 Roof Plan  
1/8" = 1'-0"



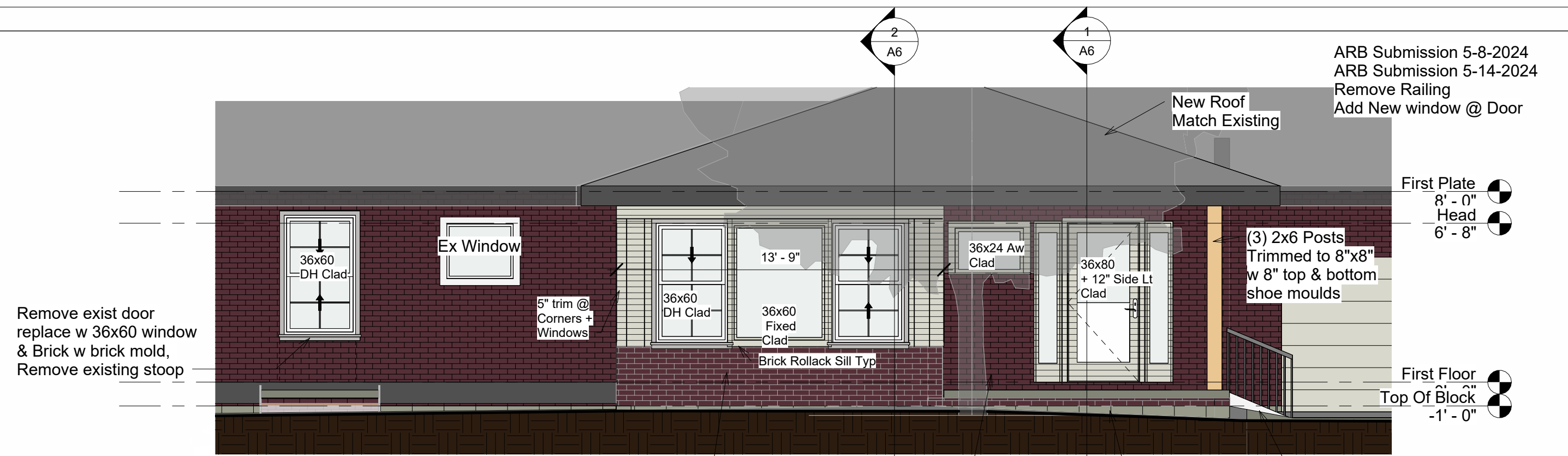
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No.	Description	Date

Roof Plan		
Project number	Project Number	<b>A4</b>
Date	12-7-2022	
Drawn by	Author	Scale 1/8" = 1'-0"
Checked by	Checker	

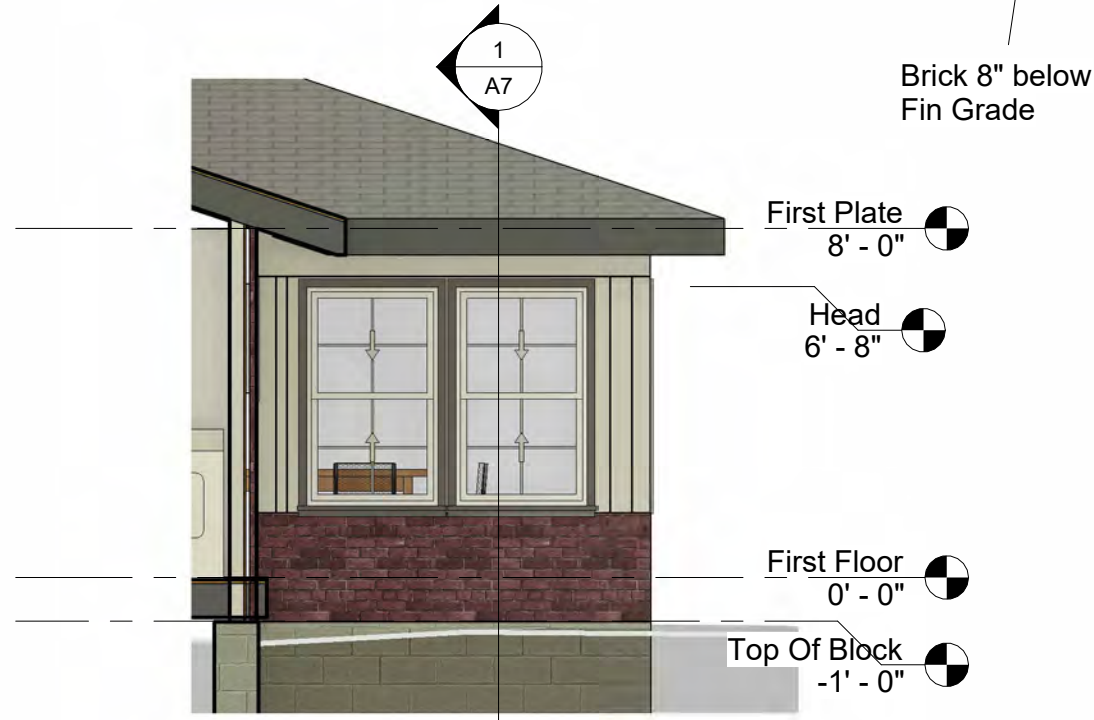
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 Remove Railing  
 Add New window @ Door



Remove exist door  
 replace w 36x60 window  
 & Brick w brick mold,  
 Remove existing stoop

First Plate 8' - 0"  
 Head 6' - 8"

First Floor 0' - 0"  
 Top Of Block -1' - 0"



① Elevation 2 - a  
 1/4" = 1'-0"

② Elevation 1 - a  
 1/4" = 1'-0"



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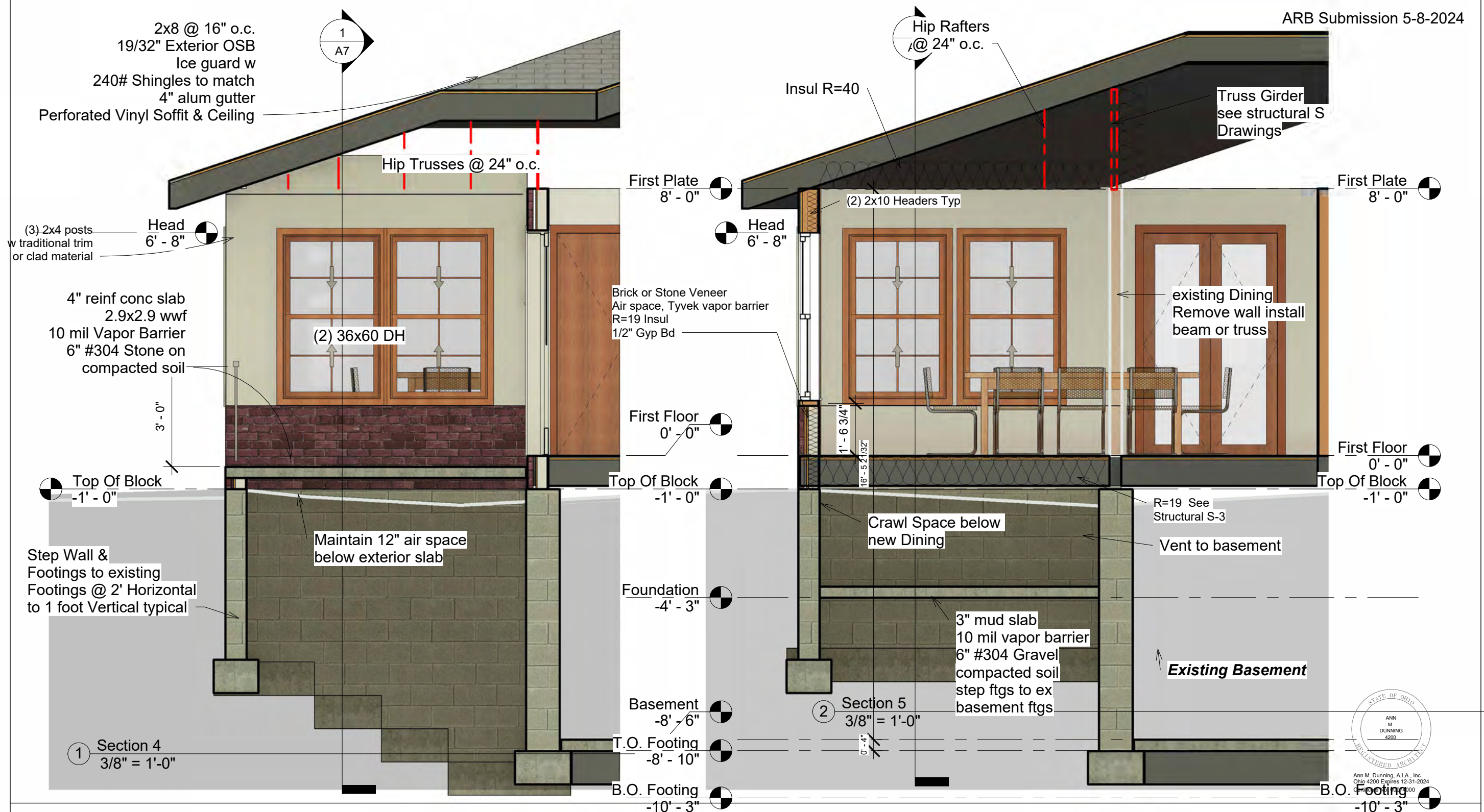
**Steve & Allison Jerome Residence**  
 655 Robley Drive, Mayfield Village, Ohio  
**Front Porch Addition**

No.	Description	Date

Elevations		
Project number	Project Number	<b>A5</b>
Date	12-7-2022	
Drawn by	Author	
Checked by	Checker	
Scale		1/4" = 1'-0"

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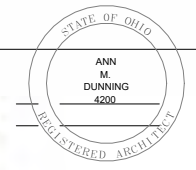


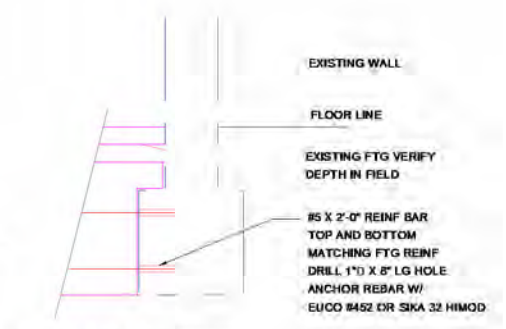
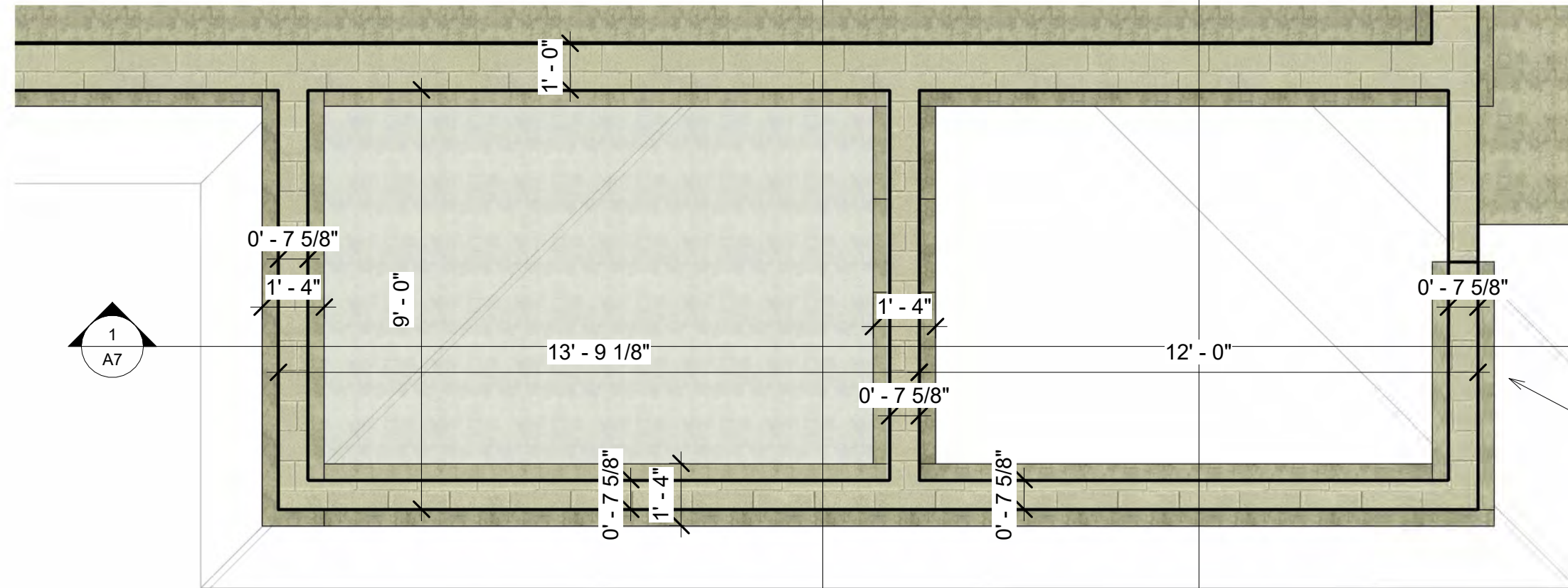
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No.	Description	Date

Building Sections		
Project number	Project Number	<b>A6</b>
Date	12-7-2022	
Drawn by	Author	Scale 3/8" = 1'-0"
Checked by	Checker	





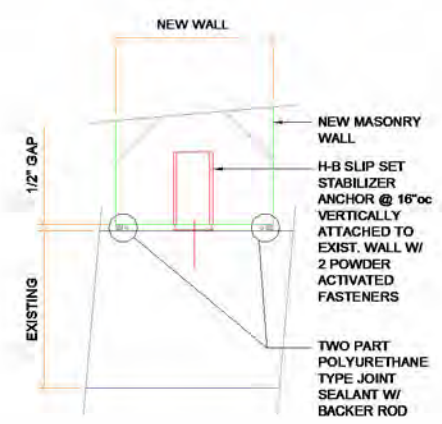
**NEW TO EXISTING FOOTING CONNECTION**  
 LOCATE ALL LOCATIONS WHERE NEW FTG. COL OR WALL, ABUTS EXISTING FOOTING

Typical Wall & Foundation  
 8" Masonry Wall min 3'6" below grade  
 16"x12" d continuous concrete ftg with (2) # 5 bars 3" from bottom.  
 Step wall & ftg to meet existing basement ftg. Step 12" vertically to 2' horizontally

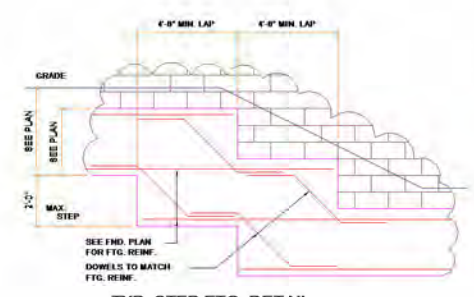
1 Basement  
 3/8" = 1'-0"

2 A6

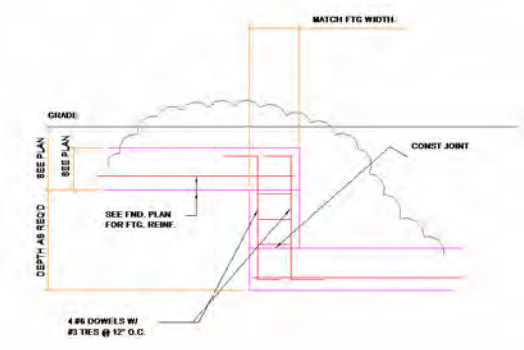
1 A6



**NEW to EXIST. MAS. ANCHOR.**  
 1 1/2" = 1'-0"



**TYP. STEP FTG. DETAIL**  
 USE AS REQUIRED - G.C. TO COORDINATE WITH SITE GRADING PLAN - ENGINEER OF RECORD NOT RESPONSIBLE FOR CONTRACTOR ERRORS



**DEEP STEP FTG. DETAIL**  
 USE AS REQUIRED - G.C. TO COORDINATE WITH SITE GRADING PLAN - ENGINEER OF RECORD NOT RESPONSIBLE FOR CONTRACTOR ERRORS

**EXTERIOR SLAB ON GRADE CONSTRUCTION**  
 4"-4000 PSI CONCRETE  
 6% ENTRAINED AIR  
 6x6-W2.9xW2.9 WWF (MATS ONLY) ON  
 6" COMPACTED ODOT 304 ON  
 COMPACTED SUB GRADE



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No.	Description	Date

Basement & Foundation Plan		
Project number	Project Number	<b>S2</b>
Date	12-7-2022	
Drawn by	Author	Scale 3/8" = 1'-0"
Checked by	Checker	

# GENERAL STRUCTURAL NOTES (GSN)

ARB Submission 5-8-2024

## STRUCTURAL DESIGN CRITERIA

CODE: OHIO RESIDENTIAL CODE, CURRENT ED.

<b>ROOF SNOW LOAD DATA:</b>	
GROUND SNOW LOAD, P <sub>s</sub>	30 PSF
SNOW EXPOSURE FACTOR, C <sub>e</sub>	0.9
SNOW IMPORTANCE FACTOR, I <sub>s</sub>	1.0
THERMAL FACTOR, C <sub>t</sub>	1.0
FLAT-ROOF SNOW LOAD, P <sub>f</sub>	18 PSF
<b>LIVE LOADS:</b>	
ROOF LIVE	30 PSF
FIRST FLOOR	40 PSF
<b>STAIR LOAD:</b>	
	40 PSF
<b>GUARDRAIL LOADS:</b>	
	50 PLF ANY DIRECTION OR APPLIED SIMULTANEOUSLY
<b>WIND LOAD:</b>	
ULTIMATE WIND SPEED, V <sub>ult</sub>	110 MPH ASCE-16
DESIGN WIND VELOCITY, V <sub>max</sub>	85 MPH
EXPOSURE	B
INTERNAL PRESSURE COEFFICIENT, GPC	+/- 0.18
<b>DEFLECTION CRITERIA:</b>	
NORMAL FLOOR LOADS	L/480 LIVE LOAD L/360 TOTAL LOAD
STONE TILE FLOORS	L/720 FOR SPANS LESS THAN OR EQUAL TO 13'-0"
CERAMIC TILE FLOORS	L/480 LIVE LOAD L/360 TOTAL LOAD L/600 FOR 200 POUND LOAD
BEAMS AND HEADERS	L/360 TOTAL LOAD

## GENERAL

- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES. IN CASE OF CONFLICT, MORE COSTLY REQUIREMENTS GOVERN FOR BIDDING. SUBMIT CLARIFICATION REQUEST PRIOR TO PROCEEDING WITH WORK.
- ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK. UNLESS NOTED OTHERWISE, DETAILS IN STRUCTURAL DRAWINGS ARE TYPICAL AS INDICATED BY CUTS, REFERENCES, OR TITLES.
- ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES: OHIO RES CODE AND LATEST REVISIONS REFERRED TO HERE AS "THE CODE", AND ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.
- ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
- CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
- CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

## FOUNDATION

- GENERAL CONTRACTOR TO RETAIN GEOTECHNICAL ENGINEER TO VERIFY SOIL BEARING CAPACITY AND ADEQUACY OF SOILS FOR PROJECT. SUBMIT WRITTEN REPORT TO BOTH ENGINEER OF RECORD AND LOCAL BUILDING AUTHORITY.
- FOOTINGS ARE DESIGNED BASED ON THE FOLLOWING INFORMATION: ALLOWABLE BEARING = 2000 PSF (ASSUMED). FOOTINGS SHALL BEAR ON COMPACTED FILL OR NATIVE SOILS TESTED.
- CONTRACTOR TO PROVIDE FOR DE-WATERING OF EXCAVATIONS FROM EITHER SURFACE WATER, GROUND WATER, OR SEEPAGE, IF REQUIRED.
- CONTRACTOR SHALL PROVIDE FOR DESIGN AND INSTALLATION OF ALL CRIBBING, SHEATHING, AND SHORING REQUIRED AND SHALL BE SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS, AND UTILITIES IN ACCORDANCE WITH ALL NATIONAL, STATE, AND LOCAL SAFETY ORDINANCES.
- ALL EXCAVATIONS SHALL BE PROPERLY BACKFILLED. DO NOT PLACE BACKFILL BEHIND RETAINING WALLS BEFORE CONCRETE OR GROUT HAS ATTAINED FULL DESIGN STRENGTH.
- FOUNDATIONS SHALL BE PLACED AND ESTIMATED ACCORDING TO DEPTHS SHOWN ON DRAWINGS. SHOULD SOIL ENCOUNTERED AT THESE DEPTHS NOT BE APPROVED BY THE INSPECTOR OR SOILS ENGINEER, FOUNDATION ELEVATIONS WILL BE ALTERED BY CHANGE ORDER.
- SLABS ON GRADE SHALL BE SUPPORTED ON NATURAL GRADE OR COMPACTED FILL. PROOF ROLL PRIOR TO PLACING BASE. REPLACE SOFT AREAS WITH COMPACTED FILL.
- PLACE FILLS TO BE COMPACTED IN MAX 8" LOOSE LIFTS. COMPACT TO MINIMUM 98% OF MAXIMUM DENSITY AT ±2% OPTIMUM MOISTURE WHEN TESTED IN ACCORDANCE WITH ASTM D-698.
- DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL FLOOR STRUCTURE IS COMPLETE OR WALL IS ADEQUATELY BRACED. USE STRUCTURAL PIPE BRACING. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF BRACING.

## CONCRETE

- ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318, LATEST EDITION.
- SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:
 

LOCATION IN STRUCTURE:	
CONCRETE FOOTINGS AND WALLS	
DENSITY	145 PCF
W/C RATIO	0.55
STRENGTH	3000 PSI
SLUMP	4" MAX.
SLAB-ON-GRADE (INT & EXT)	
DENSITY	145 PCF
W/C RATIO	0.45
STRENGTH	4000 PSI
SLUMP	4" MAX.
AIR ENTRAINMENT	
	6% FOR EXT & GARAGE SLABS
	CONTRACTOR AT HIS OPTION MAY INCREASE SLUMP WITH USE OF HRWR ADMIXTURE. LIMIT SLUMP INCREASE TO 3" GREATER THAN THAT ALLOWED WITHOUT HRWR.
- ALL REINFORCING BARS, ANCHOR BOLTS, AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- CUT JOINTS FOR SLABS ON GRADE A MAXIMUM OF 12'-0" O.C. UNLESS NOTED OTHERWISE ON THE CONTRACT DOCUMENTS. CUT JOINTS WITHIN 8 (EIGHT) HOURS AFTER PLACING CONCRETE. CONCRETE EXPOSED TO THE WEATHER, FREEZE-THAW, DEICING CHEMICALS, AND/OR PARKED VEHICLES SHALL CONTAIN 6% (±2%) ENTRAINMENT AIR EITHER BY USING TYPE "A" PORTLAND CEMENTS OR ADMIXTURES CONFORMING TO ASTM C-260.
- CURE CONCRETE BY WET CURING OR LIQUID SPRAY CONFORMING TO ASTM C-309. CONTRACTOR TO VERIFY CURING AGENT IS COMPATIBLE WITH ANY FLOOR ADHESIVES SPECIFIED WITHIN THE CONTRACT DOCUMENTS.
- CALCIUM CHLORIDE OR CHLORIDE CONTAINING ADMIXTURES WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
- DURING HOT WEATHER PLACE CONCRETE IN ACCORDANCE WITH ACI 305.
- DURING COLD WEATHER PLACE CONCRETE IN ACCORDANCE WITH ACI 306.

## REINFORCING STEEL

- REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 25 OF THE ACI CODE, ASTM A615, GRADE 60 U.N.O. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185 (MATS ONLY).
- PROVIDE LAPS PER THE ACI CODE. SECTION 25.5, 9" MINIMUM. WWF SHALL BE SUPPORTED ON APPROVED CHAIRS.
- CONCRETE PROTECTION FOR REINFORCEMENT CAST-IN-PLACE CONCRETE (NON-PRESTRESSED) THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT UNLESS NOTED OTHERWISE:
  - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
  - CONCRETE EXPOSED TO EARTH OR WEATHER: 2"
  - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: 1 1/2"
  - SLABS, WALLS, JOISTS: 3/4"

## STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION (EXCLUDING SECTION A7).
- ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (U.N.O.):
 

ALL W/F SHAPES, U.N.O.	ASTM A992
BASE PLATES, CONNECTION PLATES, ANGLES, CHANNELS, AND MISCELLANEOUS:	ASTM A36 OR A572
PIPE COLUMNS:	ASTM A53 GRADE B
TUBE SECTIONS:	ASTM A1085 OR A500 GRADE C
H.S. BOLTS:	ASTM F1753, GRADE A325
NON-STRUCTURAL BOLTS:	ASTM A307
- ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (U.N.O.). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1 LATEST REVISION) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTION SECTION AND STEEL DETAIL DRAWINGS FOR WELDING INSPECTION REQUIREMENTS.

## MASONRY

- CONSTRUCT ALL MASONRY WALLS IN ACCORDANCE WITH ACI 530 AND ACI 530.1 CHAPTER 25 OF THE ACI CODE, ASTM A615, GRADE 60 U.N.O. UNLESS OTHERWISE SHOWN OR NOTED.
- MATERIALS:
 

LOAD BEARING UNITS:	ASTM C90
CONCRETE BRICK:	ASTM C55
FACING BRICK:	ASTM C216, TYPE FBS, GRADE SW
NON LOAD BEARING UNITS:	ASTM C129
MORTAR (TYPE M, S, N, or O):	ASTM C270 (PROPORTION METHOD)
GROUT:	ASTM C476 (2000 PSI, PROPORTION METHOD)
REINFORCING STEEL BARS:	ASTM A615 GRADE 60
- MASONRY PRISM STRENGTH: F<sub>m</sub> = 2,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE.
- MORTAR USAGE:
 

FOR ABOVE AND BELOW GRADE WALLS:	TYPE S
REINFORCED MASONRY:	TYPE S
LOAD BEARING (INTERIOR AND EXTERIOR):	TYPE N
NON-LOAD BEARING (EXTERIOR):	TYPE N
NON-LOAD BEARING PARTITIONS (INTERIOR):	TYPE N
- ACCELERATING ADMIXTURES MAY BE USED IN MORTAR FOR COLD WEATHER CONSTRUCTION, EXCEPT ADMIXTURES SHALL NOT CONTAIN CALCIUM CHLORIDE OR CHLORIDE IONS. EUCLID CHEMICAL "ACCELGARD 80" OR EQUAL WILL BE ACCEPTABLE.
- ORIENTED STRAND BOARD - VOLUNTARY STANDARD PS-2. REPELLENT ADMIXTURE, GRADE "DRY-BLOCK", DEGUSSA "RHOPEL W" OR EQUAL. ADD DOSAGES TO BLOCK MIX AND MORTAR MIX PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.
- IN MASONRY WALLS, NO CHASES, RISERS, CONDUITS OR TOOTHING OF MASONRY SHALL OCCUR WITHIN 17" OF CENTERLINE OF BEAM BEARING OR CONCENTRATED LOADS. DO NOT INSTALL ANY BEAM, JOIST, BEARING PL OR CONT ANGLE ACROSS CONTROL OR EXPANSION JOINT. SHIFT BEAM, JOIST OR BRG PL TO ONE SIDE, ADJUST SPACING AS NEEDED. CUT CONT ANGLES AT JOINTS. GO TO COORD JOINT LOCATIONS WITH BEAM/JOIST BEARING USE TWO COURSES (16") OF SOLID OR GROUTED SOLID MASONRY BELOW EACH BEAM BEARING MINIMUM UNLESS NOTED OTHERWISE.
- PROVIDE HORIZONTAL JOINT REINFORCING IN ALL MASONRY WALLS AT 16" O.C. VERTICALLY. JOINT REINFORCING SHALL BE DUR-O-WAL LADDER TYPE, 9 GA. GALVANIZED WIRE, OR EQUAL. LAP SPICES MINIMUM 6".
- VENER ANCHORS TO BE TWO PIECE. P/NTEL AND EYE RECTANGULAR TYPE OR ADJUSTABLE WITH TRIANGULAR TIES. TIES ARE TO BE MIN 3/16" GALVANIZED WIRE. SPACE TIES AT 16" O.C. VERT AND 24" O.C. HORZ. STAGGER ROWS. CORRUGATED TIES WILL NOT BE PERMITTED.
- PROVIDE UNITS APPROPRIATE FOR THE USE, I.E. SASH, BULLNOSE, BOND, ETC.
- PROVIDE FIRE RATED OR EQUIVALENT MASONRY UNITS AT FIRE WALLS, STAIRWELLS AND ELEVATOR SHAFT. CERTIFICATES OF COMPLIANCE SHALL BE FURNISHED UPON REQUEST.
- DURING CONSTRUCTION, BRACE MASONRY WALLS IN ACCORDANCE WITH "STANDARD PRACTICE FOR BRACING MASONRY WALLS UNDER CONSTRUCTION" BY THE COUNCIL FOR MASONRY WALL BRACING. CONTRACTOR IS SOLELY RESPONSIBLE TO MEET THESE REQUIREMENTS.
- CONSTRUCT MASONRY IN ACCORDANCE WITH ACI 530.1 SECTION 1.8 DURING COLD OR HOT WEATHER. USE OF 100% CHLORIDE FREE ACCELERATING ADMIXTURE IS SUBJECT TO APPROVAL BY ENGINEER. SUBMIT PRODUCT DATA PRIOR TO APPLICATION.

## STEEL LINTEL SCHEDULE

- PROVIDE STEEL LINTELS AS PER THE FOLLOWING SCHEDULE IN ALL MASONRY WALL OPENINGS WHEN NOT SHOWN ON DRAWINGS, OR IN OPENINGS REQUIRED BY THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS:
 

FOR OPENINGS UP TO 4'-0":	L3 12x3 1/2x1/4
FOR OPENINGS FROM 4'-1" TO 6'-0":	L5x3 1/2x5/16
FOR OPENINGS FROM 6'-1" TO 7'-0":	L6x3 1/2x5/16
FOR OPENINGS FROM 7'-1" TO 10'-0":	W8x18 with 5/16" plate
FOR OPENINGS GREATER THAN 10'-0" AND NOT SHOWN ON PLANS	ALLOW FOR A MINIMUM BEAM WEIGHT OF 36 PLF PLUS A 5/16" x 11" BOT PLATE
- ALL LINTELS SHALL BEAR ON 8" OF SOLID MASONRY, U.N.O.
- USE ONE ANGLE FOR EACH 4" WYTHE OF MASONRY. PLATES ARE TO BE 1" LESS THAN NOMINAL WALL THICKNESS.
- MINIMUM THICKNESS OF LINTELS IN EXTERIOR WALLS TO BE 5/16".
- ANGLES OR PLATES IN EXTERIOR WIDTHS OF MASONRY WALLS ARE TO BE HOT DIPPED GALVANIZED.
- FOR MULTI WYTHE WALLS WITH AIR SPACES, CONTRACTOR IS TO INCLUDE ADDITIONAL ANGLES, PLATES, AND CHANNELS TO CLOSE OFF AIRSPACE AT LINTEL LOCATIONS. SEE DETAILS ON DRAWINGS. IF NO DETAILS ARE SHOWN, CONTACT ENGINEER FOR FURTHER INFORMATION AND DETAILS.

## ROUGH CARPENTRY

- DETAIL, FABRICATE, AND ERECT ALL STRUCTURAL LUMBER IN ACCORDANCE WITH NATIONAL DESIGN SPECIFICATION BY NATIONAL FOREST PRODUCTS ASSOCIATION AND TIMBER CONSTRUCTION MANUAL BY AMERICAN INSTITUTE OF TIMBER CONSTRUCTION, LATEST EDITION.
- MATERIALS:
 

S4S LUMBER (ASLS PS 20)	
<b>CONCEALED LOCATIONS:</b>	
SPECIES:	DOUGLAS FIR LARCH, HEM FIR, OR SPF
GRADE:	NO. 2 OR BETTER, 19% MC, KILN DRIED
<b>EXPOSED LOCATIONS:</b>	
SPECIES:	DOUGLAS FIR LARCH OR AS SELECTED BY ARCHITECT
GRADE:	NO. 2 OR BETTER, 19% MC, KILN DRIED
<b>EXTERIOR PRESSURE TREATED:</b>	
SPECIES:	SOUTHERN PINE
GRADE:	NO. 2 OR BETTER, 19% MC, KILN DRIED
- LAMINATED VENEER LUMBER (LVL ASTM D4466)
 

F <sub>v</sub> =	2800 PSI
F <sub>t</sub> =	105 PSI
E =	1,900,000 PSI
- SHEDDING - APA RATED FOR APPLICATION:
 

EXTERIOR GRADE AT ROOFS:	
EXPOSURE 1 FOR WALLS AND FLOORS:	
PLYWOOD - APA VOLUNTARY STANDARD PS-1:	
ORIENTATED STRAND BOARD - VOLUNTARY STANDARD PS-2:	
- TREATED LUMBER - TO BE FACTORY PRESSURE APPLIED AS FOLLOWS:
 

EXTERIOR EXPOSURES & GROUND CONTACT, ANPA UC3B OR UC4B:	
FIRE RESISTANT: ANPA UCFA FOR INTERIOR AND UCFB FOR EXTERIOR.	
- LUMBER SUPPLIER SHALL FURNISH ALL APPROPRIATE CONNECTIONS FOR ATTACHING LUMBER FRAMING AND ANCHORING TO ADJACENT CONSTRUCTION. CONNECTIONS SHALL BE MADE WITH STANDARD DESIGNS, FABRICATED FROM 16 OR 18 GA. SHEET METAL FOR SINGLE OR DOUBLE 2x LUMBER MEMBERS OR 3, 7 OR 12 GA. STEEL PLATE FOR MULTIPLE LVL, GULAM OR LVL MEMBERS, AS MANUFACTURED BY CLEVE STL SPEC. U S P. SIMPSON STRONGTIE, OR EQUAL. DETAILS SHALL CONFORM TO AISC STANDARD NO. 104.
- BOLTS, NAILS, SPIKES, AND OTHER CONNECTORS SHALL BE APPROPRIATE FOR THE USE INTENDED. FASTENERS EXPOSED TO FIRE-TREATED LUMBER, CHEMICAL FLUMES, WEATHER AND/OR HIGH HUMIDITY SHALL BE HOT DIPPED GALVANIZED, UNLESS INDICATED OTHERWISE ON DRAWINGS.
- ALL CONNECTORS, FASTENERS, NAILS, BOLTS AND SPIKES USED FOR PRESSURE TREATED LUMBER CONNECTIONS SHALL BE FABRICATED FROM STAINLESS STEEL, TYPE 304 OR 316.
- PROVIDE WOOD HEADERS AS PER THE FOLLOWING SCHEDULE IN ALL STUD WALL OPENINGS WHEN NOT SHOWN ON DRAWINGS, OR IN OPENINGS REQUIRED BY THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS.
 

<b>MAX OPENING SIZE</b>	<b>BEARING WALLS</b>	<b>NON-BEARING WALLS</b>
UP TO 4"	2-2X8	2-2X6
4 TO 6"	2-2X10	2-2X8
6 TO 8"	2-2X12	2-2X10
8 TO 10"	SEE PLAN	SEE PLAN
10 TO 12"	SEE PLAN	SEE PLAN
OVER 12"	SEE PLAN	SEE PLAN
- STUD SCHEDULE - USE THE FOLLOWING SCHEDULE, UNLESS NOTED OTHERWISE ON PLANS. PROVIDE ONE ADDITIONAL KING STUD EACH SIDE, FULLY NAILED TO JACK STUDS.
 

<b>MAX OPENING SIZE</b>	<b>NON-BEARING WALLS</b>	<b>BEARING WALLS</b>
UP TO 4"	1	1
4 TO 6"	1	1
6 TO 8"	1	2
8 TO 10"	2	3
10 TO 12"	2	3
OVER 12"	SEE PLAN	SEE PLAN
- PROVIDE BEARING JACK STUDS EQUAL TO NUMBER OF BEAM LAMINATIONS PLUS ONE KING STUD UNDER ALL BEAM BEARING LOCATIONS. STUDS ARE TO EXTEND TO SOLID OR BEAM BEARING OR AS NEEDED. BLOCK SOLID AS NEEDED.

## CONNECTION NAILING SCHEDULE

- JOIST TO SILL OR GIRDER, TOENAIL
 3-8d (1) |
- BRIDGING TO JOIST, TOENAIL EACH END
 2-8d |
- 1" x 6" (25 mm x 152 mm) SUBFLOOR OR LESS TO EACH JOIST, FACE NAIL
 2-8d |
- WIDER THAN 1" x 6" (25 mm x 152 mm) SUBFLOOR TO EACH JOIST, FACE NAIL
 3-8d |
- 2" (51 mm) SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL
 2-16d |
- SOLE PLATE TO JOIST OR BLOCKING
 16d @ 16" (406 mm) O.C. |
- SOLE PLATE TO JOIST OR BLOCKING AT BRACED WALL PANELS
 3-16d PER 16" (406 mm) O.C. |
- TOP PLATE TO STUD, END NAIL
 2-16d |
- STUD TO SOLE PLATE
 4-8d TOENAIL, OR 2-16d END NAIL |
- DOUBLED STUDS, FACE NAIL
 16d @ 24" (610 mm) O.C. |
- DOUBLED TOP PLATES, TYPICAL FACE NAIL
 16d @ 16" (406 mm) O.C. |
- DOUBLE TOP PLATES, LAP SPLICE
 8-16d |
- BLOCKING BETWEEN JOISTS OR RAFTERS TO TOP PLATE, TOENAIL
 3-8d |
- RIM JOIST TO TOP PLATE, TOENAIL
 8d @ 6" (152 mm) O.C. |
- TOP PLATES, LAPS AND INTERSECTIONS
 2-16d |
- FACE NAIL
 16d @ 16" (406 mm) O.C. |
- CONTINUOUS HEADER, TWO PIECES ALONG EACH EDGE
 3-8d |
- CEILING JOISTS TO PLATE, TOENAIL
 4-8d |
- CONTINUOUS HEADER TO STUD, TOENAIL
 3-16d |
- CEILING JOISTS, LAPS OVER PARTITIONS, FACE NAIL
 3-16d |
- CEILING JOISTS TO PARALLEL RAFTERS
 3-16d |
- FACE NAIL
 3-8d |
- RAFTER TO PLATE, TOENAIL
 2-8d |
- 1" x 8" (25 mm x 203 mm) BRACE TO EACH STUD AND PLATE, FACE NAIL
 2-8d |
- 1" x 8" (25 mm x 203 mm) SHEATHING OR LESS TO EACH BEARING, FACE NAIL
 2-8d |
- WIDER THAN 1" x 8" (25 mm x 203 mm) SHEATHING TO EACH BEARING, FACE NAIL
 3-8d |
- BUILT-UP CORNER STUDS
 16d @ 24" (610 mm) O.C. |
- BUILT-UP GIRDER AND BEAMS AT TOP AND BOTTOM AND STAGGERED
 20d @ 32" (813 mm) O.C. |
- 2" (51 mm) PLANKS
 2-16d AT EACH BEARING |
- WOOD STRUCTURAL PANELS AND PARTICLE BOARD: (2)
 

SUBROOF, ROOF AND WALL SHEATHING (TO FRAMING):	
1/2" AND LESS	6d (3)
19/32" - 3/4"	8d (4) OR 5d (5)
7/8" - 1"	8d (3)
1 1/8" - 1 1/4"	10d (4) OR 8d (5)
- COMBINATION SUBFLOOR-UNDERLAYMENT (TO FRAMING):
 

3/4" AND LESS	6d (5)
7/8" - 1"	8d (5)
1 1/8" - 1 1/4"	10d (4) OR 8d (5)
- PANEL SIDING (TO FRAMING):
 

1/2" (13 mm) OR LESS	6d (6)
5/8" (16 mm)	8d (6)
- FIBERBOARD SHEATHING (7)
 

1/2" (13 mm) THICKNESS	6d (4)
25/32" (20 mm) THICKNESS	No. 16 GA (9)
- INTERIOR PANELING
 

1/4" THICKNESS	6d (10)
3/8" THICKNESS	8d (11)

- NOTES (AS IDENTIFIED IN PARENTHESES ABOVE):
- COMMON OR BOX NAILS MAY BE USED EXCEPT WHERE OTHERWISE STATED.
  - NAILS SPACED AT 6 INCHES ON CENTER AT EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS EXCEPT 6 INCHES (152 mm) AT ALL SUPPORTS WHERE SPANS ARE 48 INCHES OR MORE. FOR NAILING OF WOOD STRUCTURAL PANEL AND PARTICLE BOARD DIAPHRAGMS AND SHEAR WALLS, REFER TO SECTION 802.3. NAILS FOR WALL SHEATHING MAY BE COMMON, BOX OR CASING.
  - COMMON OR DEFORMED SHANK.
  - COMMON.
  - DEFORMED SHANK.
  - CORROSION-RESISTANT SIDING AND CASING NAILS CONFORMING TO THE REQUIREMENTS OF SECTION 802.3.
  - FASTENERS SPACED 3 INCHES (76 mm) ON CENTER AT EXTERIOR EDGES AND 6 INCHES (152 mm) ON CENTER AT INTERMEDIATE SUPPORTS.
  - CORROSION-RESISTANT ROOFING NAILS WITH 7/16" DIAMETER HEAD AND 1-1/2 INCH LENGTH FOR 1/2 INCH SHEATHING AND 1 3/4 INCH FOR 25/32 INCH SHEATHING CONFORMING TO THE REQUIREMENTS OF SECTION 802.3.
  - STAPLES OF ANY TYPE MAY NOT BE USED UNDER ANY CIRCUMSTANCES.
  - PANEL SUPPORTS AT 16 INCHES IF STRENGTH AXIS IN THE LONG DIRECTION OF THE PANEL, UNLESS OTHERWISE MARKED. CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES AT INTERMEDIATE SUPPORTS.
  - PANEL SUPPORTS AT 24 INCHES CASING OR FINISH NAILS SPACED 6 INCHES ON PANEL EDGES, 12 INCHES (305 mm) AT INTERMEDIATE EDGES.



Ann M. Dunning, A.I.A., Inc.  
Ohio 4200 Expires 12-31-2024  
Certificate No. 00074000

# Ann M. Dunning, A.I.A., Inc.

129 Burlington Oval Drive, Chardon, Ohio 44024

Tel: 440-338-4750 Email: adunning65@att.net

## Steve & Allison Jerome Residence

655 Robley Drive, Mayfield Village, Ohio

### Front Porch Addition

No.	Description	Date

## General Structural Notes

Project number Project Number

Date 12-7-2022

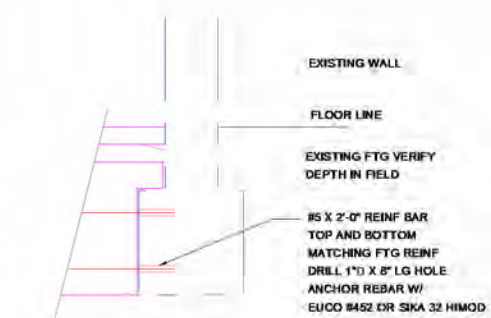
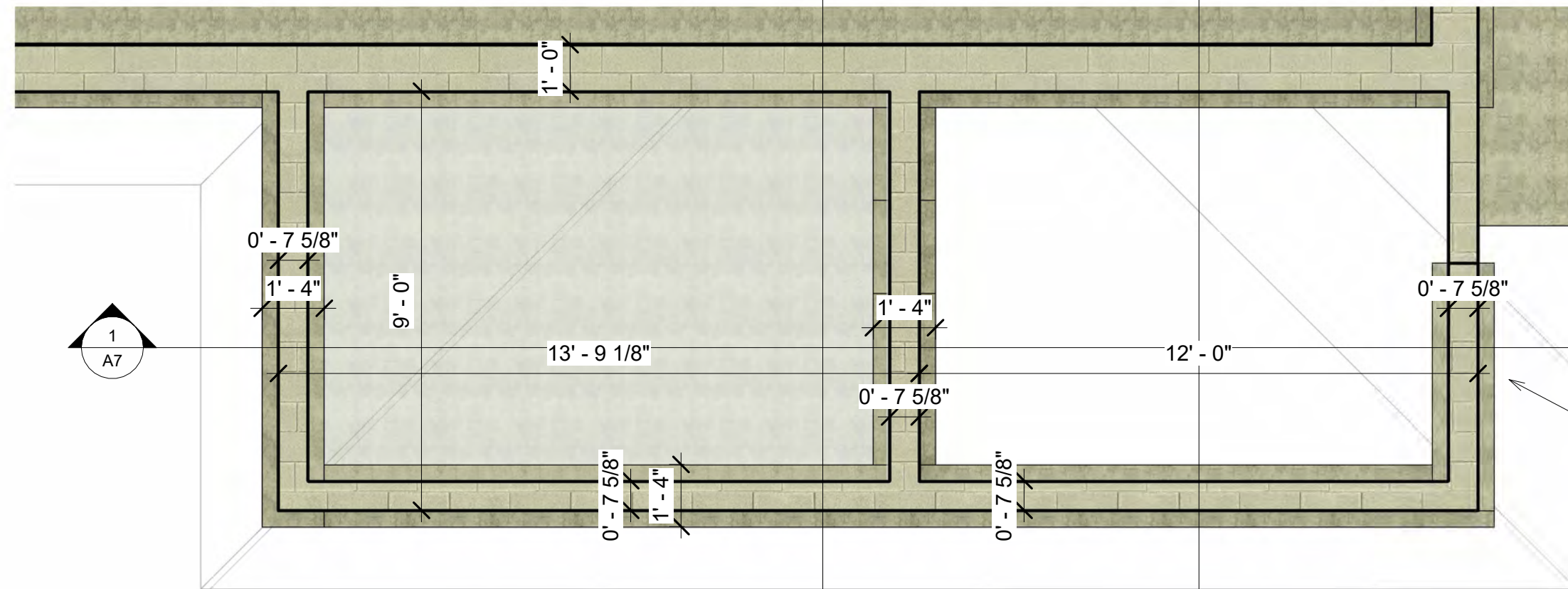
Drawn by Author

Checked by Checker

# S1

Scale

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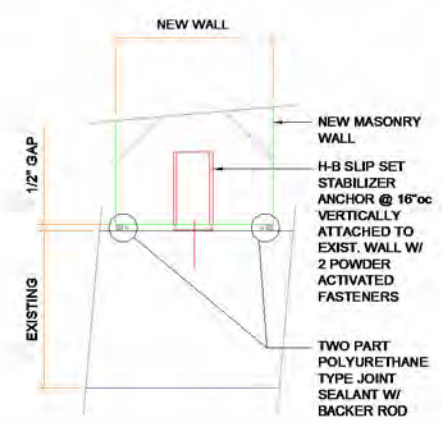
**NEW TO EXISTING FOOTING CONNECTION**  
 LOCATE ALL LOCATIONS WHERE NEW FTG. COUL OR WALL, ABUTS EXISTING FOOTING

Typical Wall & Foundation  
 8" Masonry Wall min 3'6" below grade  
 16"x12" d continuous concrete ftg with (2) # 5 bars 3" from bottom.  
 Step wall & ftg to meet existing basement ftg. Step 12" vertically to 2' horizontally

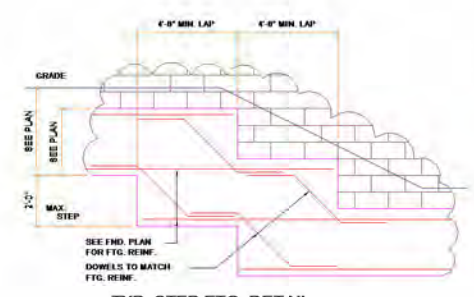
1 Basement  
 3/8" = 1'-0"

2  
 A6

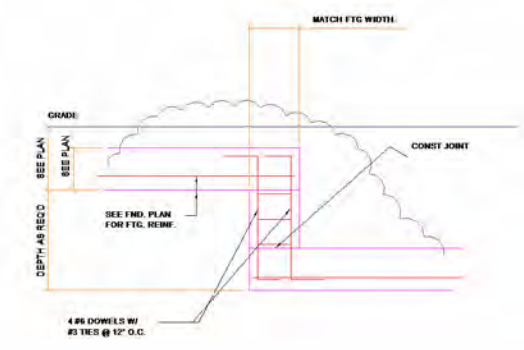
1  
 A6



**NEW TO EXIST. MAS. ANCHOR.**  
 1 1/2" = 1'-0"



**TYP. STEP FTG. DETAIL**  
 USE AS REQUIRED - G.C. TO COORDINATE WITH SEE GRADING PLAN - ENGINEER OF RECORD NOT RESPONSIBLE FOR CONTRACTOR ERRORS



**DEEP STEP FTG. DETAIL**  
 USE AS REQUIRED - G.C. TO COORDINATE WITH SEE GRADING PLAN - ENGINEER OF RECORD NOT RESPONSIBLE FOR CONTRACTOR ERRORS

**EXTERIOR SLAB ON GRADE CONSTRUCTION**  
 4"-4000 PSI CONCRETE  
 6% ENTRAINED AIR  
 6x6-W2.9xW2.9 WWF (MATS ONLY) ON  
 6" COMPACTED ODOT 304 ON  
 COMPACTED SUB GRADE

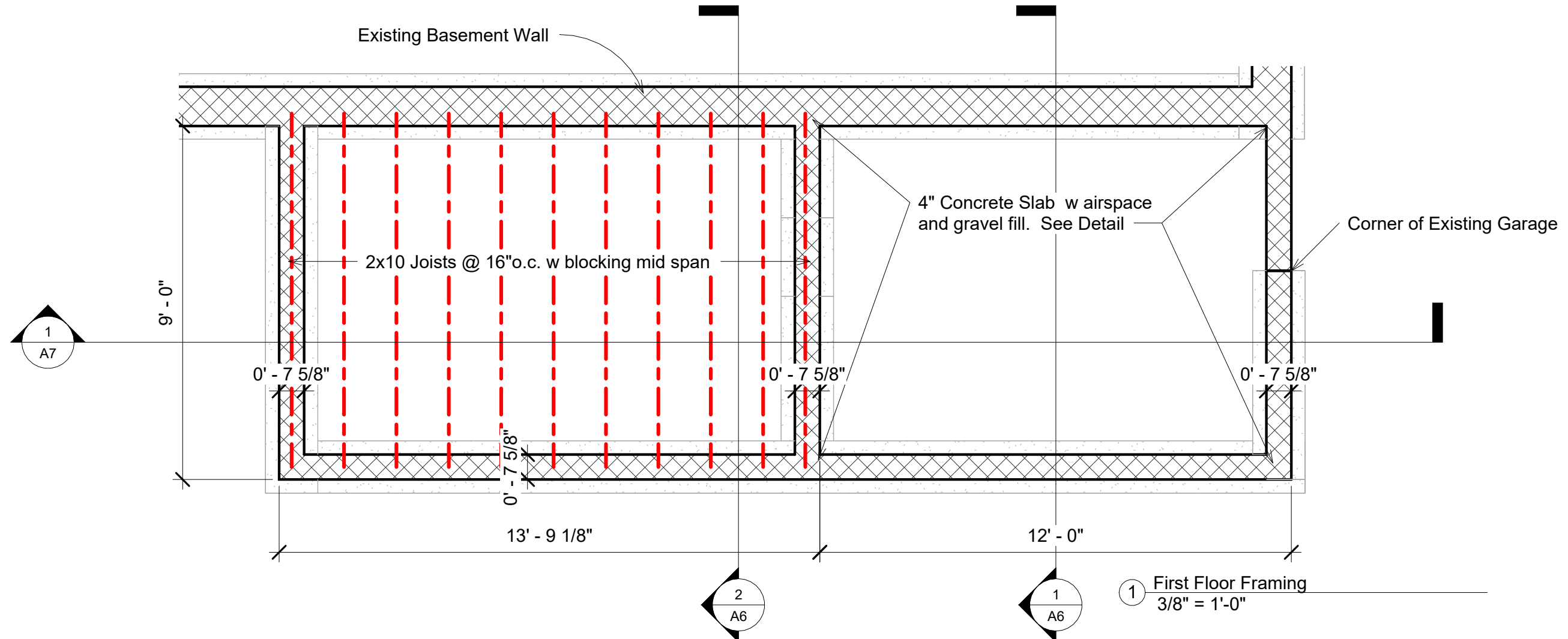


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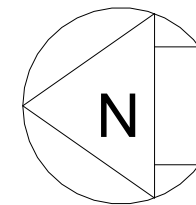
**Steve & Allison Jerome Residence**  
 655 Robley Drive, Mayfield Village, OHio  
**Front Porch Addition**

No.	Description	Date

Basement & Foundation Plan		
Project number	Project Number	<b>S2</b>
Date	12-7-2022	
Drawn by	Author	Scale 3/8" = 1'-0"
Checked by	Checker	



① First Floor Framing  
3/8" = 1'-0"



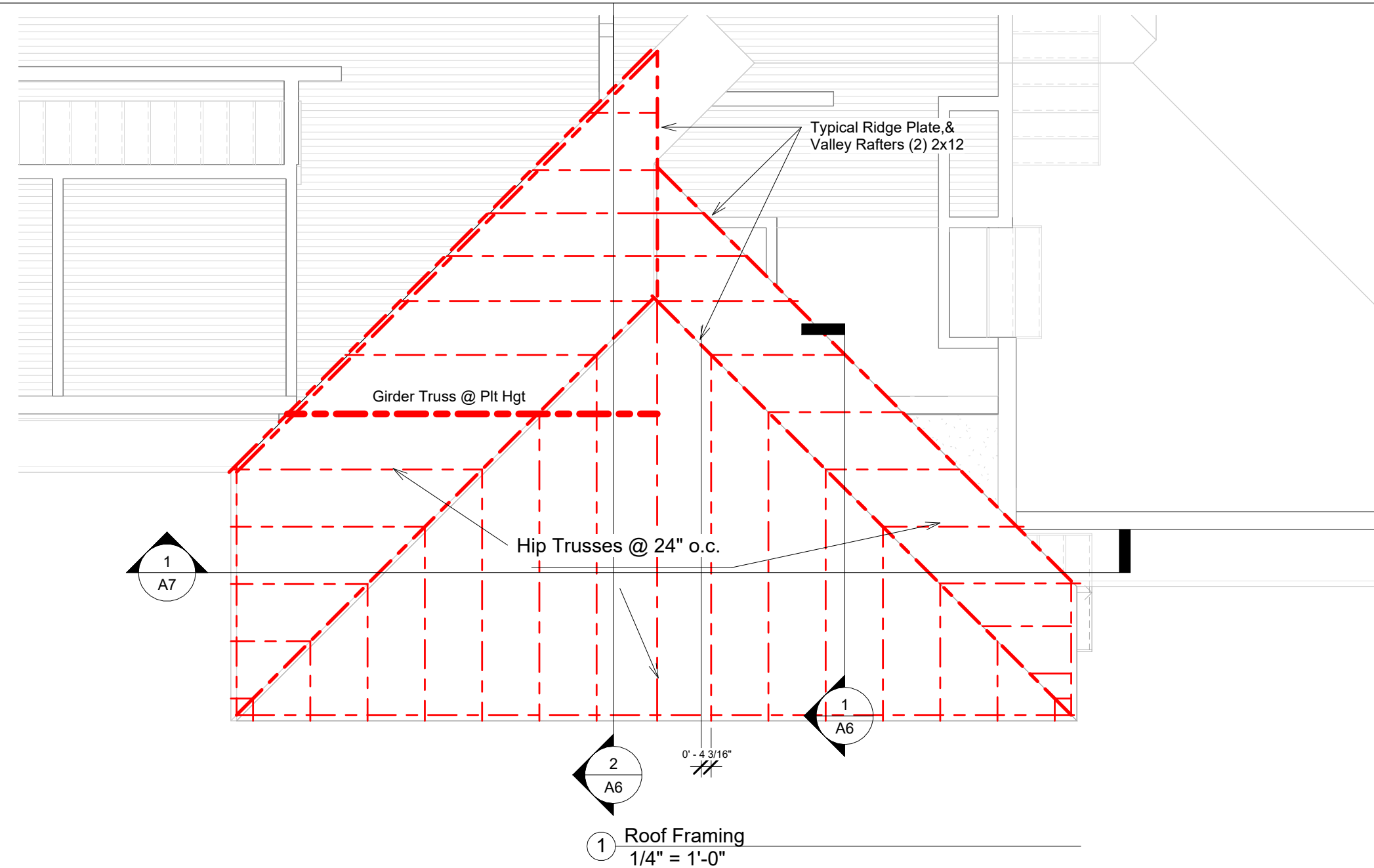
Ann M. Dunning, A.I.A., Inc.  
Ohio 4200 Expires 12-31-2024  
Certificate No. 00074000

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**Steve & Allison Jerome Residence**  
655 Robley Drive, Mayfield Village, Ohio  
**Front Porch Addition**

No.	Description	Date

First Floor Framing Plan		
Project number	Project Number	<b>S3</b>
Date	12-7-2022	
Drawn by	Author	Scale 3/8" = 1'-0"
Checked by	Checker	



- TRUSS DESIGN NOTES:**
1. TRUSS DESIGN LOADS  
 TCLL = 30 PSF (U.N.O.) NON-REDUCIBLE  
 TCDL = 15 PSF (U.N.O.)  
 BCDL = 10 PSF (U.N.O.)  
 BCLL = 20 PSF (U.N.O.) - NOT APPLIED SIMULTANEOUSLY WITH TCLL
  2. TOP & BOT. CHORDS TO BE MIN. 2x6 (U.N.O.)
  3. TRUSSES SHOWN FOR PROFILE ONLY
  4. WEB BRACING BY TRUSS DESIGNER, MIN. 2x4 SIZE
  5. DL DOES NOT ACCOUNT FOR WEIGHT OF TRUSS
  6. NET UPLIFT 15 PSF MIN.
  7. TRUSSES SHALL BE INSTALLED PER THE SPECIFICATIONS OF THE TRUSS MANUFACTURER.
  8. TRUSS INSTALLER OR ANY OTHER CONTRACTOR SHALL NOT MODIFY ANY PORTION OF THE TRUSSES ONCE THEY ARE DELIVERED TO THE SITE. DO NOT CUT OR DRILL ANY HOLES INTO TRUSS MEMBERS WITHOUT WRITTEN DIRECTIONS FROM THE TRUSS VENDOR.
  9. TRUSS DESIGNER SHALL SUBMIT SHOP DRAWINGS OF THE TRUSSES FOR REVIEW BY ENGINEER & ARCHITECT PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BEAR A PROFESSIONAL ENGINEER STAMP FROM THE STATE OF OHIO.
  10. TRUSS DESIGNER IS RESPONSIBLE FOR DETERMINING SNOW LOADS ON TRUSSES BASED ON SNOW DESIGN CRITERIA LISTED ON DRAWING S1. THIS INCLUDES, BUT IS NOT LIMITED TO, BALANCED, UNBALANCED, AND DRIFTED SNOW DUE TO TRUSS PARAPETS, SLOPES, AND MANSARDS. EOR HAS SHOWN DRIFTED SNOW FROM UPPER ROOFS ONTO LOWER ROOFS, IF APPLICABLE. SEE DRIFTED AREAS INDICATED ON ROOF PLAN AND SNOW SURCHARGE DIAGRAM, IF APPLICABLE. TRUSS DESIGNER SHALL DESIGN TRUSSES FOR ALL THESE SNOW LOADS.
  11. TRUSS DESIGNER SHALL DESIGN, SPECIFY, AND LOCATE PERMANENT TRUSS BRACING ON TRUSS SHOP DRAWINGS.



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**Front Porch Addition**

No.	Description	Date

Roof Framing		
Project number	Project Number	<b>S4</b>
Date	12-7-2022	
Drawn by	Author	Scale 1/4" = 1'-0"
Checked by	Checker	