

PROJECT:

BUILDING 4

213, 215, 221, 223

JOYCE LANE WEST

THE VILLAS

AT

RANDALL RESIDENCE

WEST MILTON, OHIO 45383

OWNER:

TVWM LLC

310 WHITE OAK ROAD

LAWTON, MI 49065

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ARCHITECTURAL

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STRUCTURAL

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S-2 ROOF FRAMING PLAN

P.M.E.

PME MECHANICAL, ELECTRICAL, PLUMBING

PLUMBING

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ELECTRICAL

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CODE NOTES

2017 OHIO BUILDING CODE

SEC DESCRIPTION
310.5 EXISTING USE & OCCUPANCY CLASSIFICATION: RESIDENTIAL GROUP R-3.
310.5.5 MULTI-FAMILY ALTERNATIVE COMPLIANCE: CHAPTERS 2-10 AND 44 OF THE RESIDENTIAL CODE OF OHIO (RCO) UNDER CONDITIONS 1-12.
310.5.5 CONDITION 6: FIRE SEPARATION PROVIDED BETWEEN EACH 2-UNIT GROUPING PER RCO SECTION 302.2 THROUGH 302.6.
T601 TYPE OF CONSTRUCTION: VB (NO FIRE-RESISTANCE RATING OF BUILDING ELEMENTS, EXCEPT PER RCO REQUIREMENTS BELOW).
903.2.8.1 AUTOMATIC SPRINKLER SYSTEM NOT REQUIRED, NOT PROPOSED.

2019 OHIO RESIDENTIAL CODE

SEC DESCRIPTION
302.2 2-HOUR FIRE SEPARATION BETWEEN EACH 2-UNIT GROUPING; 1-HOUR SEPARATION BETWEEN EACH UNIT.
T302.1 EXTERIOR WALLS: NO FIRE-RESISTANCE RATING REQUIRED.
T302.6 DWELLING/GARAGE SEPARATION: NOT LESS THAN 1/2" GYP. BOARD ON GARAGE SIDE.
310.1 EMERGENCY ESCAPE: SLEEPING ROOMS PROVIDED WITH WINDOW OPENING WITH MIN. CLEAR OPENING OF 5.7 SF; MIN. CLEAR HEIGHT OF 24 IN.; MIN. CLEAR WIDTH OF 20 IN.
311.2 EGRESS DOOR: UNIT ENTRY DOOR HAS MIN. CLEAR WIDTH OF 32 IN., MIN. CLEAR HEIGHT OF 78 IN.
320.2 ACCESSIBILITY: ALL DWELLING UNITS ARE DESIGNED AS TYPE B UNITS PER CHAP. 10 OF ICC/ANSI A117.1.

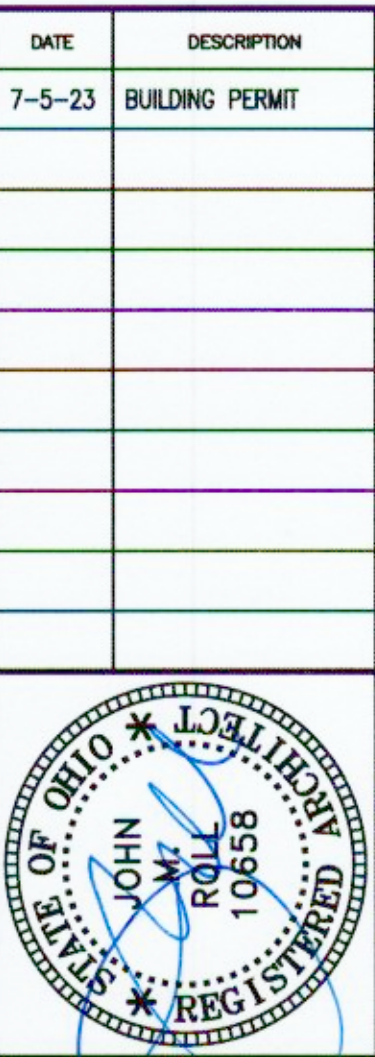
DIRECTORY

OWNER: TVWM LLC 310 WHITE OAK ROAD LAWTON, MI 49065
CHRISTOPHER RANDALL (269) 624-4841
CELL (269) 377-8111
EMAIL ccr@randallresidence.com

DESIGN/BUILD CONTRACTOR: LIFESTYLE CONSTRUCTION, LLC P.O. BOX 936 SPRINGBORO, OHIO 45066
JAYSON MORRIS (513) 709-8614
EMAIL jmorris@gracedevelopments.com

ARCHITECT: ROLL & ASSOCIATES, INC. 3176 KETTERING BOULEVARD DAYTON, OHIO 45439
JOHN ROLL (937) 299-4243
FAX (937) 299-3254
EMAIL jroll@rollassoc.com

CIVIL ENGINEER: CHOICE ONE ENGINEERING 440 E. HOEWISHER ROAD SIDNEY, OHIO 45365
JEFF PUTHOFF PH. (937) 497-0200
CELL (937) 726-0478
EMAIL jsp@choiceoneengineering.com



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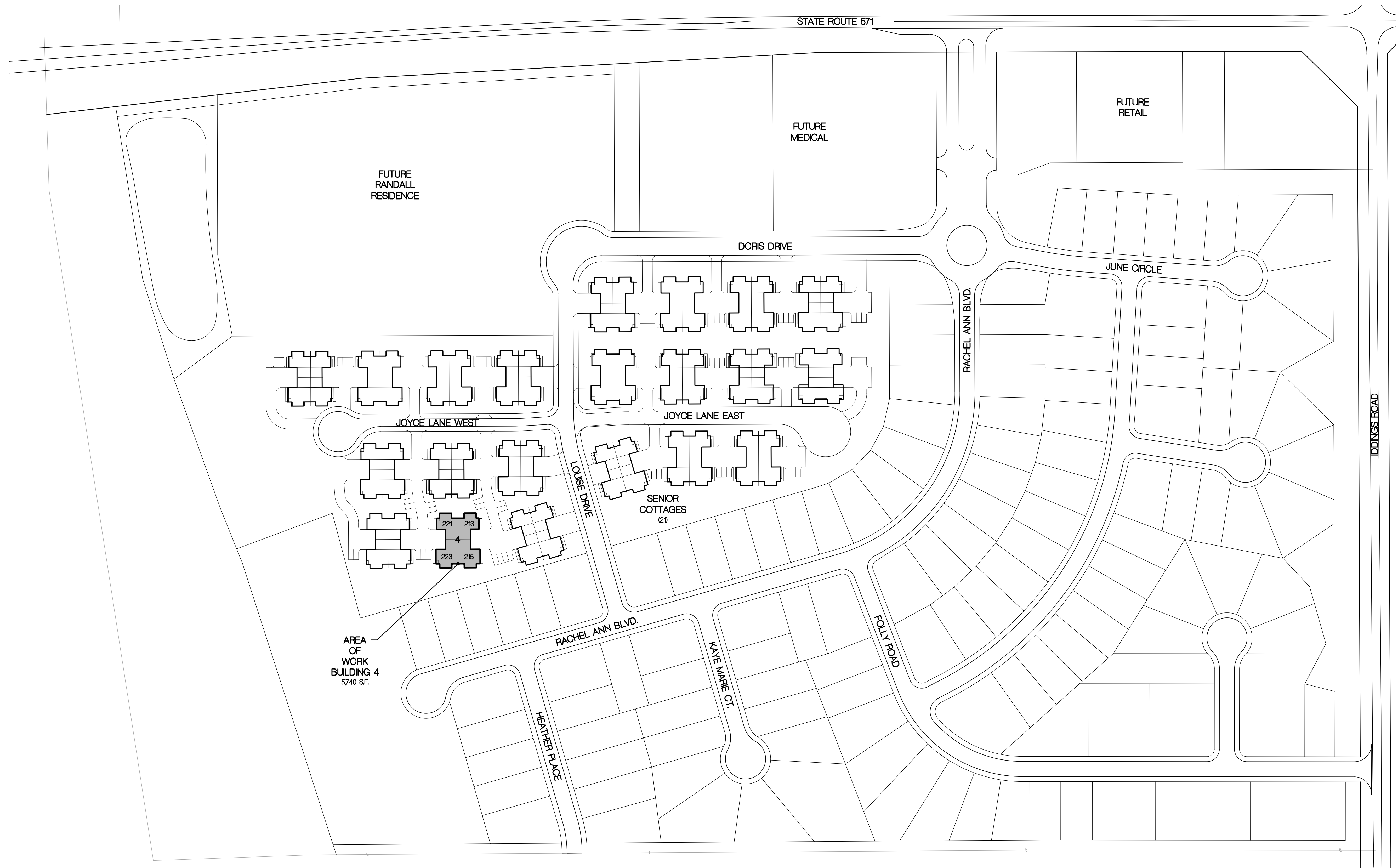


PROJECT NO.
56133
PROJECT TITLE
BUILDING 4
VILLAS @
WEST MILTON

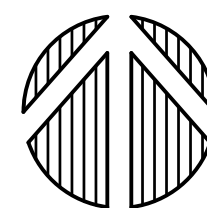
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TITLE SHEET

DWG. NO.
TS

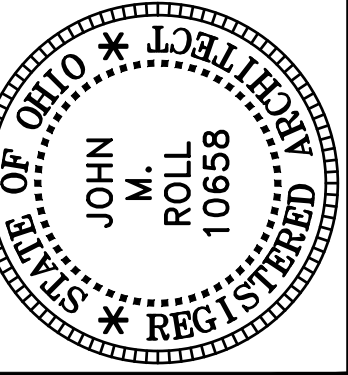
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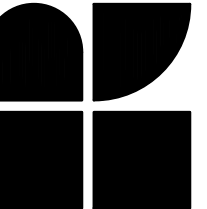
SITE PLAN
1" = 100.0'



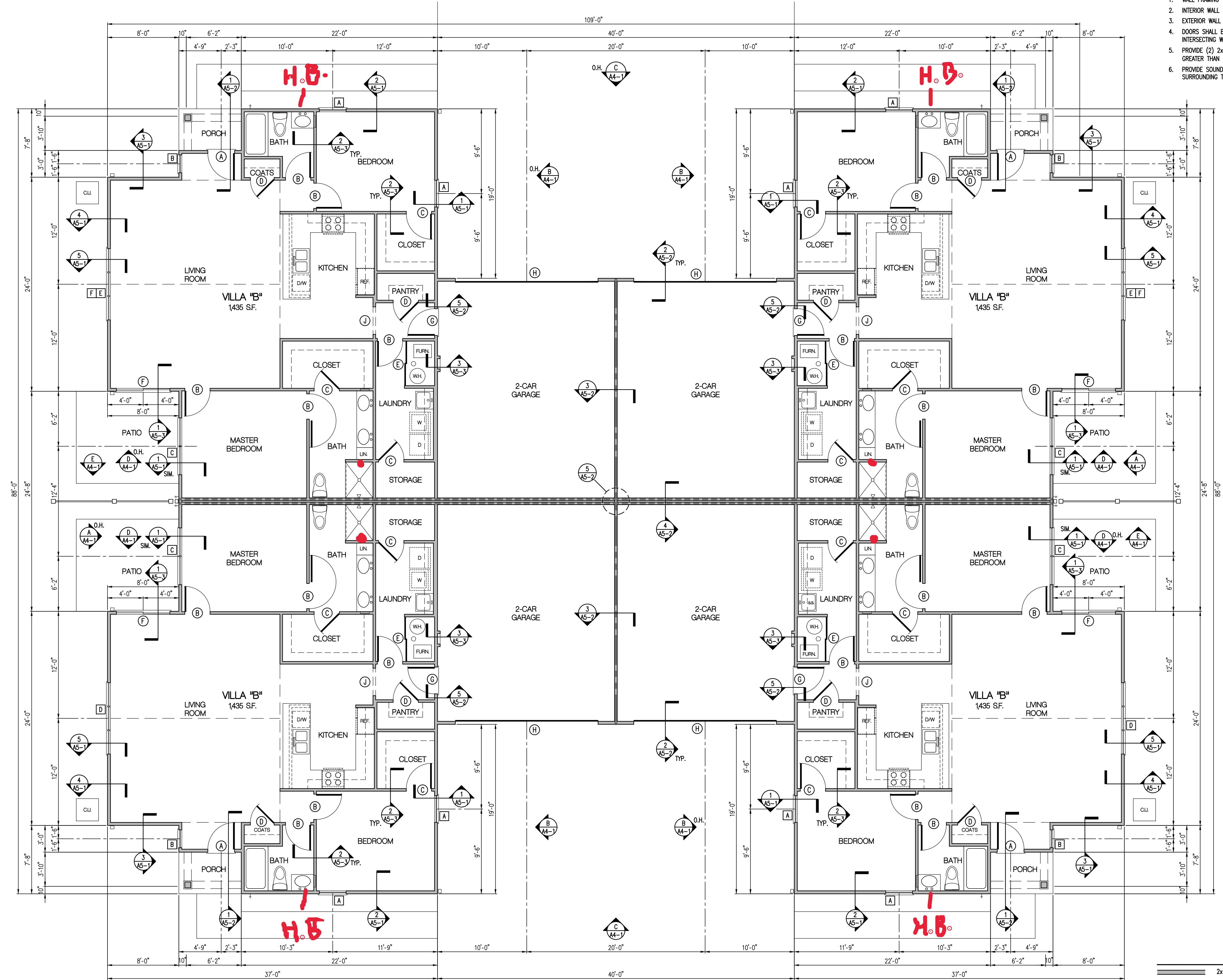
DATE	DESCRIPTION
7-5-23	BUILDING PERMIT



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PROJECT NO. 56133
PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE SITE PLAN
DWG. NO. A1-1



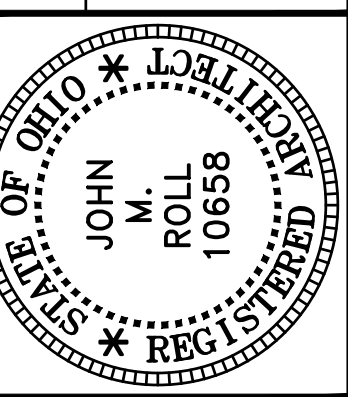
BUILDING PLAN - VILLA "B"
3/16" = 1'-0"

General Notes

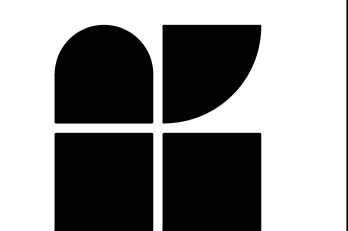
1. WALL FRAMING TO BE 2x4 WOOD STUDS @ 16" O.C. U.N.O.
2. INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD.
3. EXTERIOR WALL DIMENSIONS ARE TO FACE OF SHEATHING.
4. DOORS SHALL BE LOCATED W/ ROUGH OPENING 3" FROM INTERSECTING WALLS U.N.O.
5. PROVIDE (2) 2x JACKS UNDER ALL HEADERS W/ OPENINGS GREATER THAN 60" WIDE - TYPICAL.
6. PROVIDE SOUND BATTS BETWEEN EACH VILLA AND IN ALL WALLS SURROUNDING TOILET ROOM.

Legend	
	2x WOOD STUD WALL - NO FIRE RATING
	2x WOOD STUD WALL - 1 HOUR FIRE RATING
	2x WOOD STUD WALL - 2 HOUR FIRE RATING

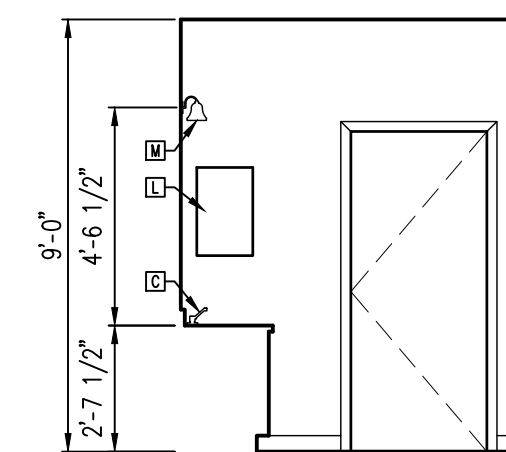
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3-15-23	BUILDING PERMIT
5-31-23	PERMIT CORRECTIONS



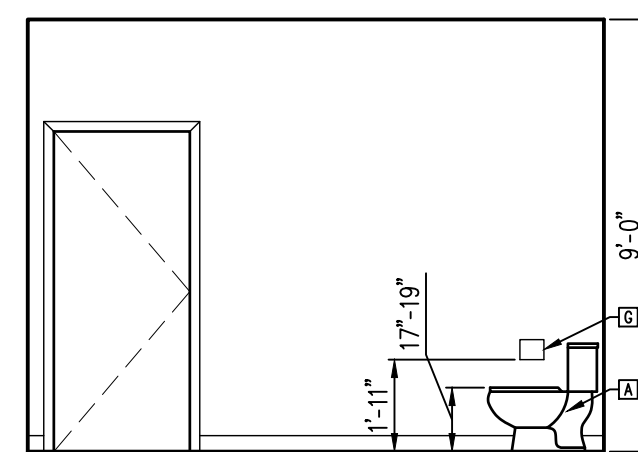
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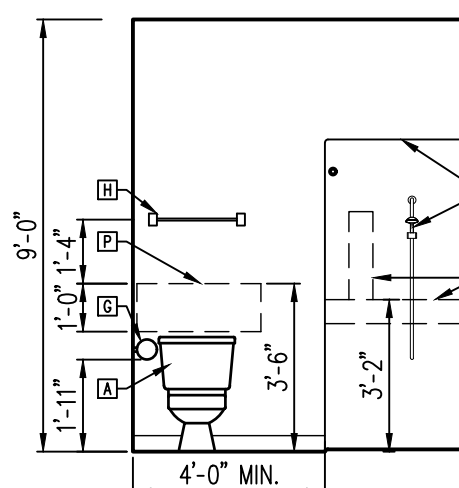
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DWG. TITLE BUILDING PLAN
DWG. NO. A2-1



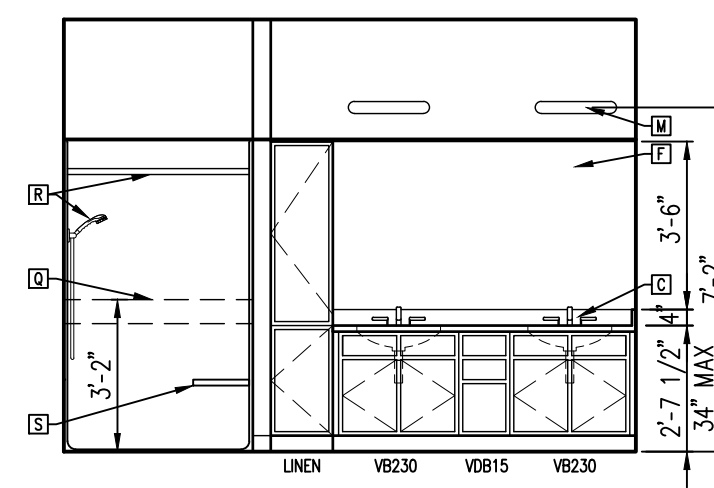
BATH
1/4" = 1'-0"



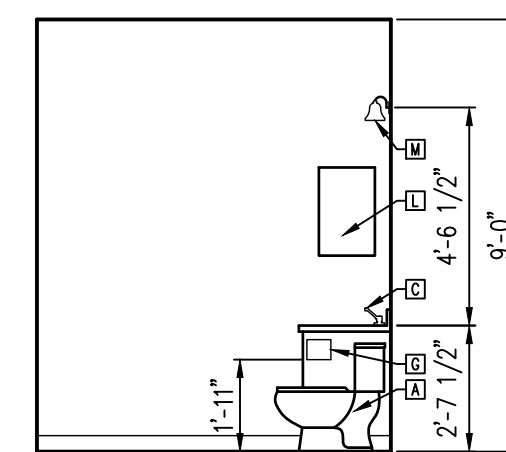
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1/4" = 1'-0"



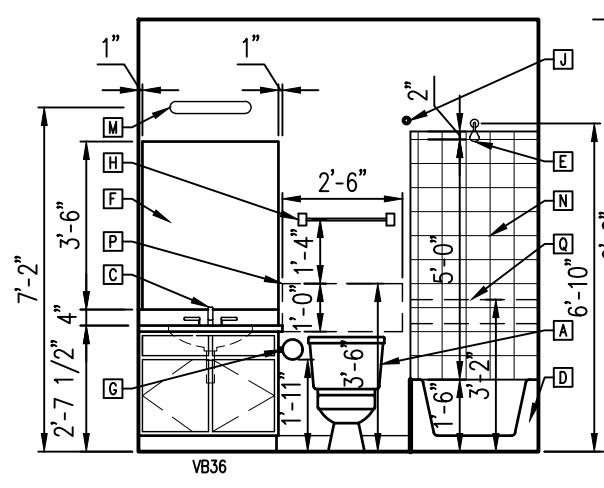
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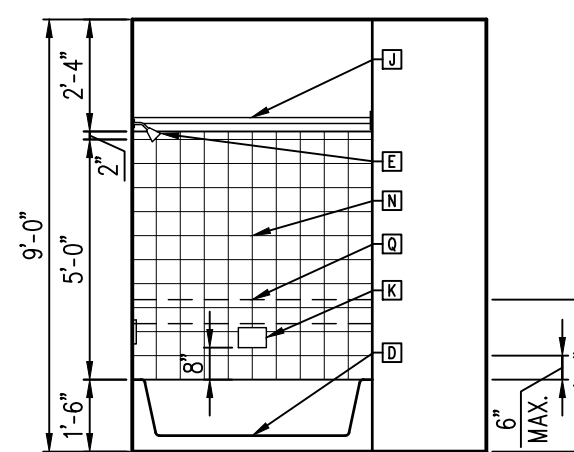
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1/4" = 1'-0"



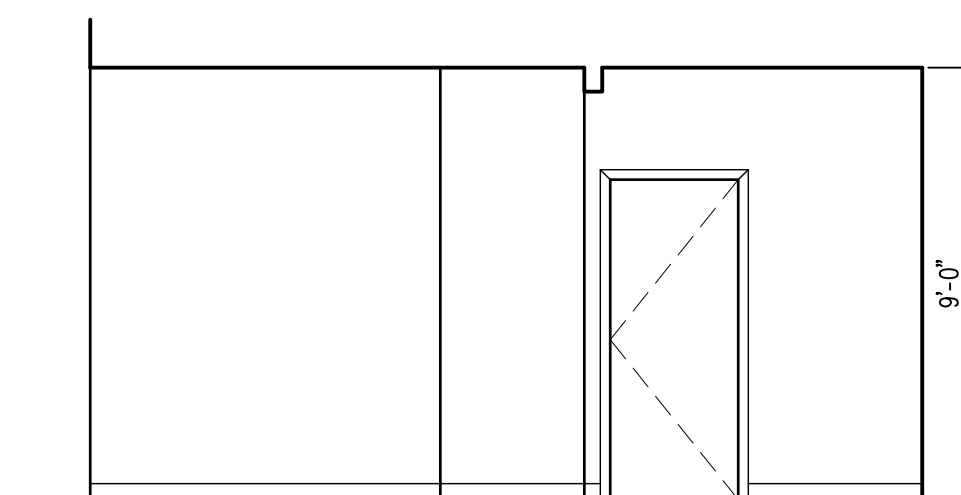
BATH
1/4" = 1'-0"



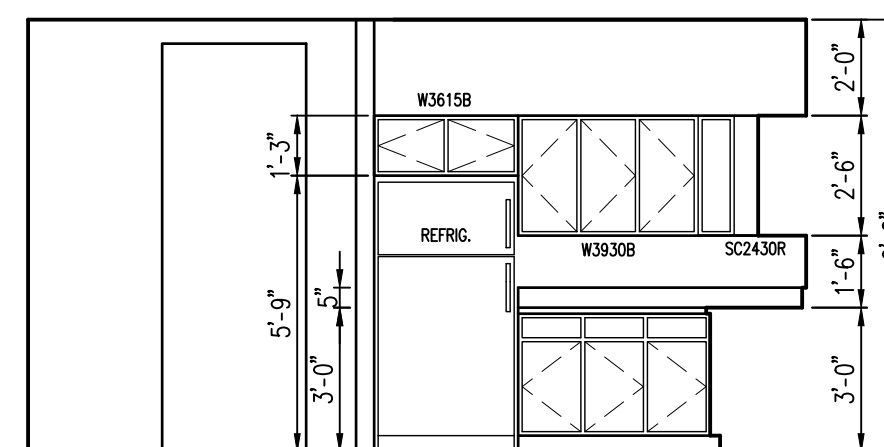
BATH
1/4" = 1'-0"



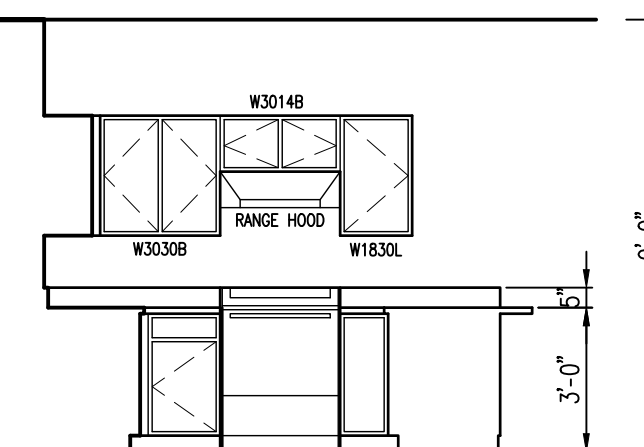
BATH
1/4" = 1'-0"



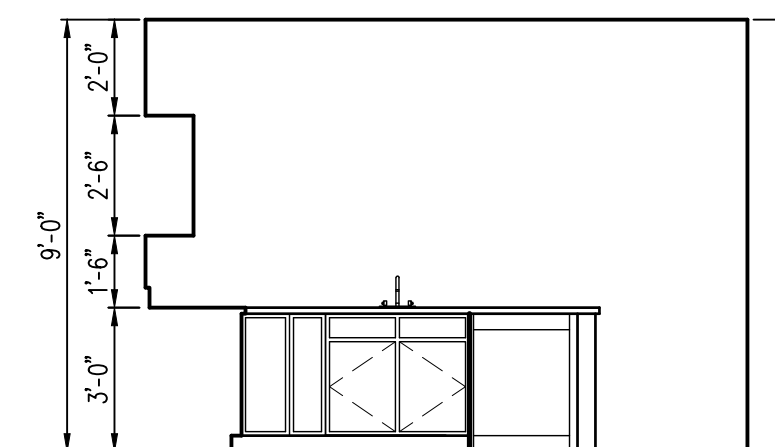
KITCHEN
1/4" = 1'-0"



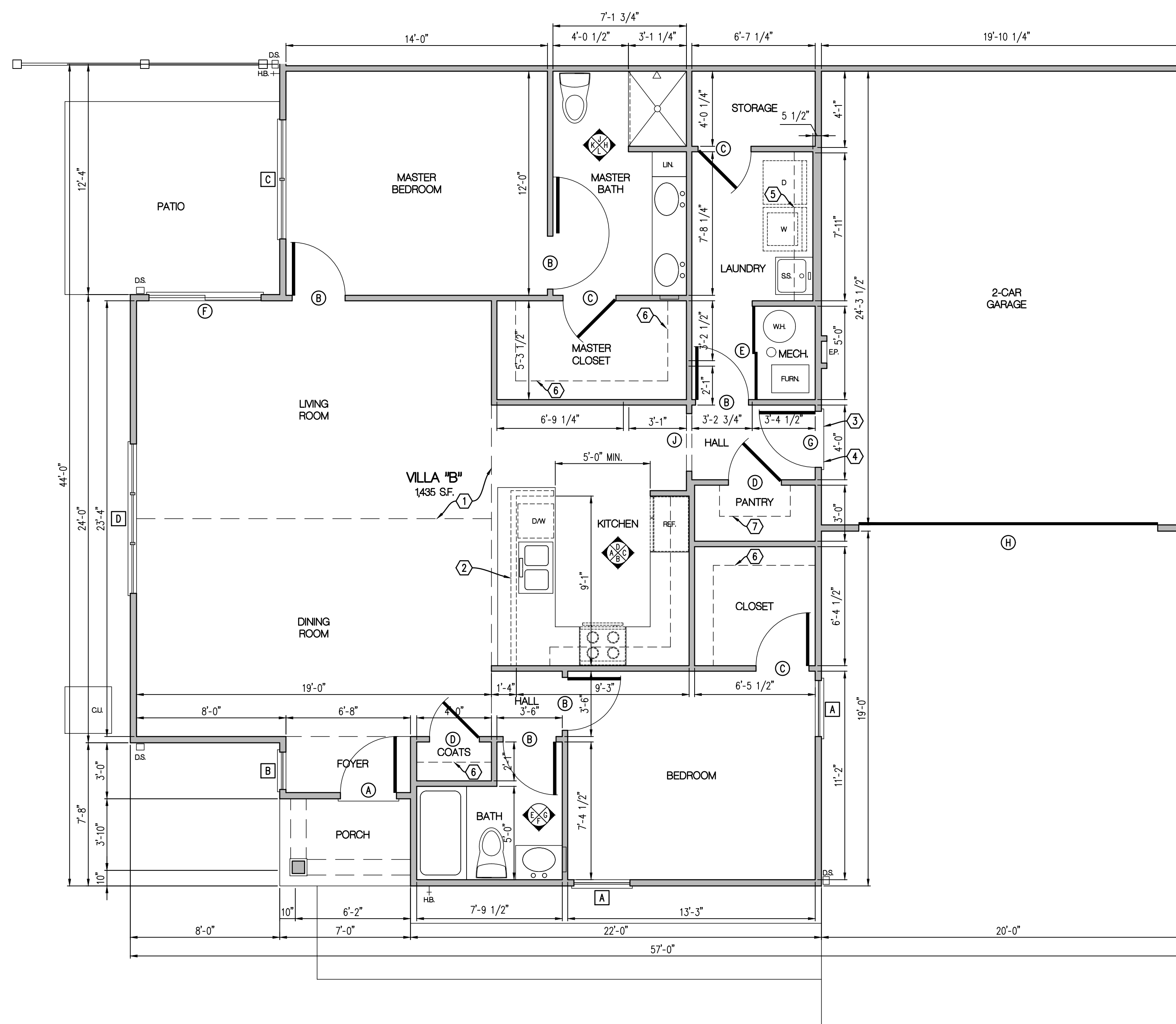
KITCHEN
1/4" = 1'-0"



KITCHEN
1/4" = 1'-0"



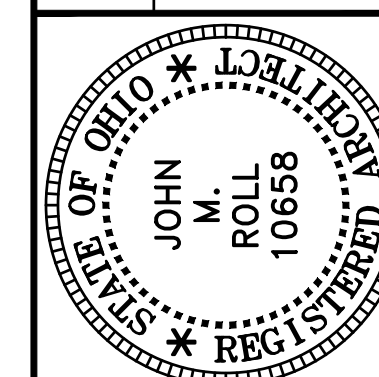
KITCHEN
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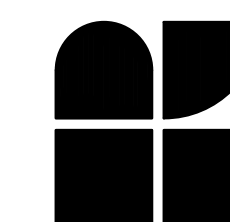
FLOOR PLAN - VILLA "B"
1/4" = 1'-0"

Toilet Room Notes

- A. WATER CLOSET.
- B. LAVATORY.
- C. FAUCET
- D. BATH TUB.
- E. SHOWER HEAD.
- F. MIRROR
- G. TOILET PAPER DISPENSER.
- H. TOWEL BAR.
- J. SHOWER CURTAIN ROD.
- K. SOAP DISH.
- L. MEDICINE CABINET
- M. LIGHT FIXTURE (3 BULB).
- N. 6"x6" CERAMIC TILE W/ 2" CAP.
- O. FOLDING GRAB BAR - REINFORCEMENT PER MANUF.
- P. GRAB BAR W/ 2x10 BLOCKING.
- R. PREFABRICATED SHOWER STALL W/ CURTAIN ROD, SHOWER HEAD, CONTROLS, & RECESSED BASIN PER ICC/ANSI REQUIREMENTS.
- S. SEAT W/ 2X10 BLOCKING.



ROLL & ASSOCIATES, INC.
ARCHITECTS & PLANNERS
13176 KETTERING BOULEVARD DAYTON, OHIO 45439
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Construction Notes

1. LINE OF SLOPED CEILING ABOVE.
2. LINE OF HALF WALL BELOW COUNTER.
3. TREATED 2x4 UNDER THRESHOLD.
4. MAINTAIN 4" MINIMUM ELEVATION CHANGE BETWEEN GARAGE FLOOR & FINISHED FIRST FLOOR.
5. (1) 12"D. CLOSET ROD & SHELF MOUNTED @ 60" HEIGHT - VINYL COATED WIRE W/ STANDARD SUPPORT SPACING.
6. (1) 12"D. CLOSET ROD & SHELF MOUNTED @ 67 1/2" HEIGHT - VINYL COATED WIRE W/ STANDARD SUPPORT SPACING.
7. (4) 16"D. WIRE SHELVES MOUNTED @ 29", 42", 55", 68" HEIGHT - VINYL COATED W/ STANDARD SUPPORT SPACING.



General Notes

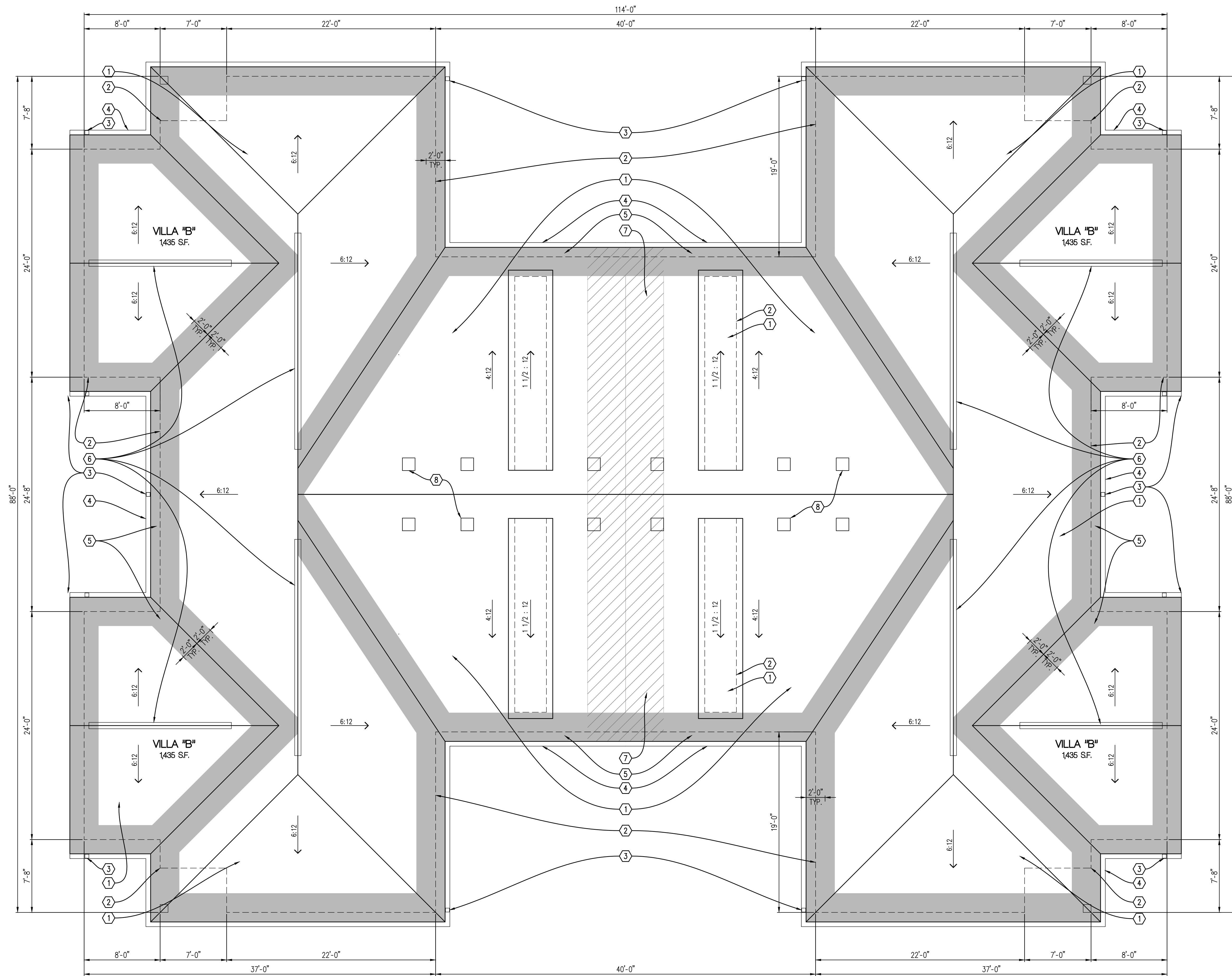
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Legend

- 2x WOOD STUD WALL - NO FIRE RATING
- 2x WOOD STUD WALL W/ SOUND BATT

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PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE FLOOR PLAN - VILLA "B"
DWG. NO.

A2-2



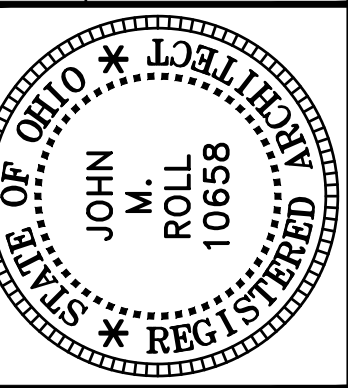
ROOF PLAN

3/16" = 1'-0"

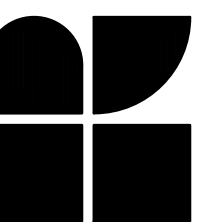
Roof Notes

1. ASPHALT SHINGLE ROOFING ON 1 LAYER OF 15# ROOFING FELT - TYPICAL ALL ROOF SURFACES UNLESS NOTED OTHERWISE.
2. LINE OF BUILDING BELOW.
3. 3" x 4" ALUMINUM DOWNSPOUT - TYPICAL.
4. 5" ALUMINUM OGEE GUTTER - TYPICAL.
5. SHADED AREAS INDICATE LOCATIONS FOR ICEGUARD INSTALLED BELOW SHINGLE ROOFING.
6. RIDGE VENT LOCATION - AIR VENT CRV 100 (TYPICAL)
7. PROVIDE FIRE RETARDANT TREATED PLYWOOD ROOF DECKING MINIMUM 4'-0" EACH SIDE OF 2 HOUR FIRE BARRIER - SEE DETAIL BELOW.
8. ALUMINUM HAT VENT LOCATION - AIRHAWK RVA 51 SQUARE VENT (TYPICAL).

DATE	DESCRIPTION
7-5-23	BUILDING PERMIT

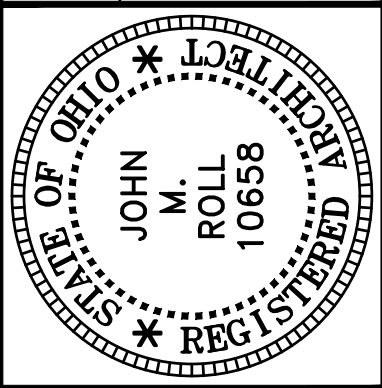


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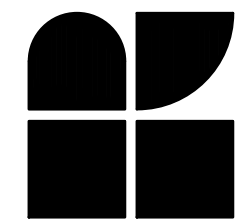


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PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE ROOF PLAN
DWG. NO. A3-1

DATE	DESCRIPTION
7-5-23	BUILDING PERMIT



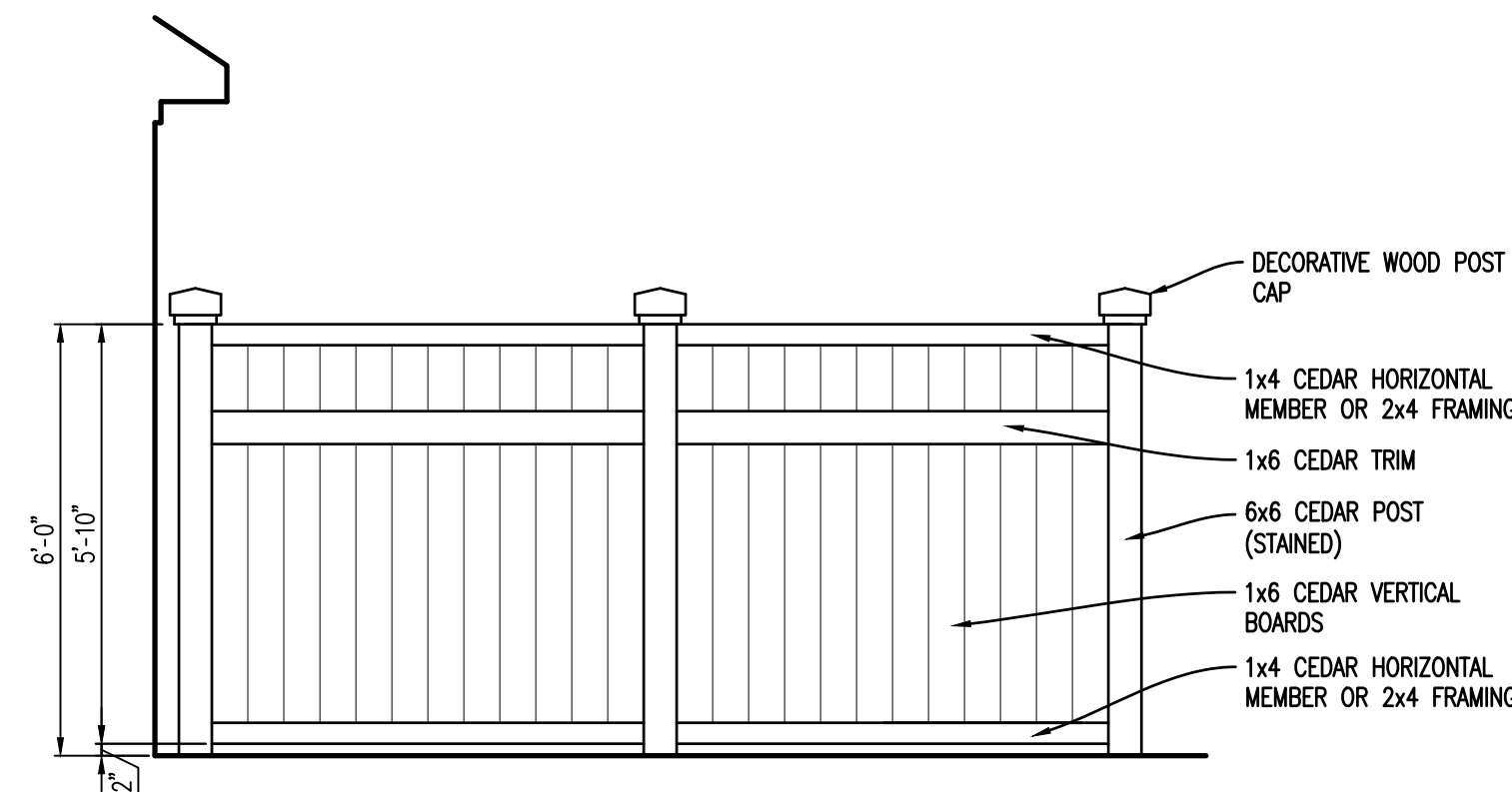
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PHONE (937) 299-4243 FAX (937) 299-3254



PROJECT NO. 56133
PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE EXTERIOR ELEVATIONS
DWG. NO. A4-1

Elevation Notes

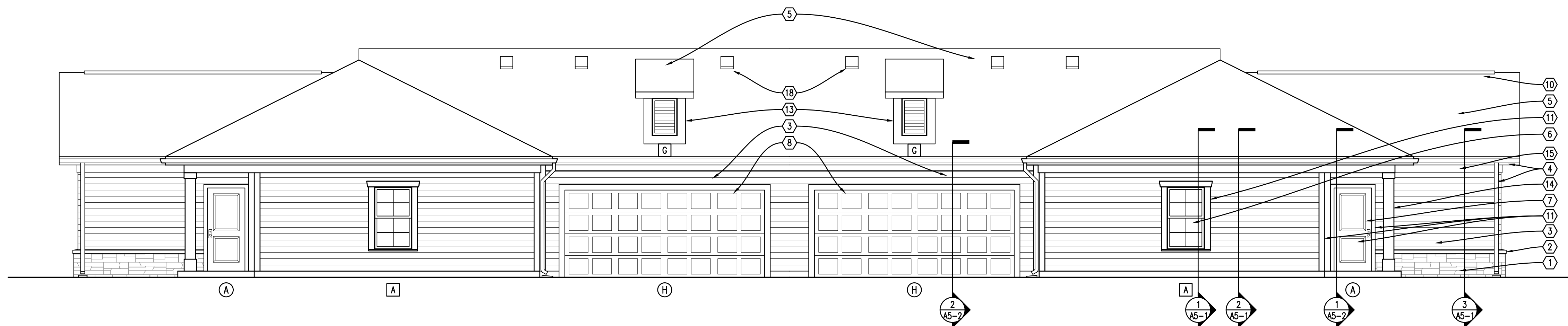
1. CULTURED STONE VENEER.
2. CULTURED STONE WATERTABLE COURSE.
3. COMPOSITION LAP SIDING.
4. PREFINISHED GUTTER & DOWNSPOUTS.
5. FIBERGLASS SHINGLE ROOF.
6. VINYL WINDOW UNIT, SEE WINDOW SCHEDULE FOR DETAILS.
7. INSULATED DOOR & FRAME PER DOOR SCHEDULE.
8. INSULATED OVERHEAD DOOR PER DOOR SCHEDULE.
9. WALL-MOUNTED LIGHT FIXTURE.
10. RIDGE VENT.
11. COMPOSITION TRIM.
12. PREFINISHED ALUM. CLAD RAKE.
13. DORMER.
14. COLUMN.
15. PREFINISHED ALUM. CLAD FASCIA.
16. FENCE.
17. SOFFIT BRACKET.
18. BOX VENT.



ELEVATION

3/8" = 1'-0"

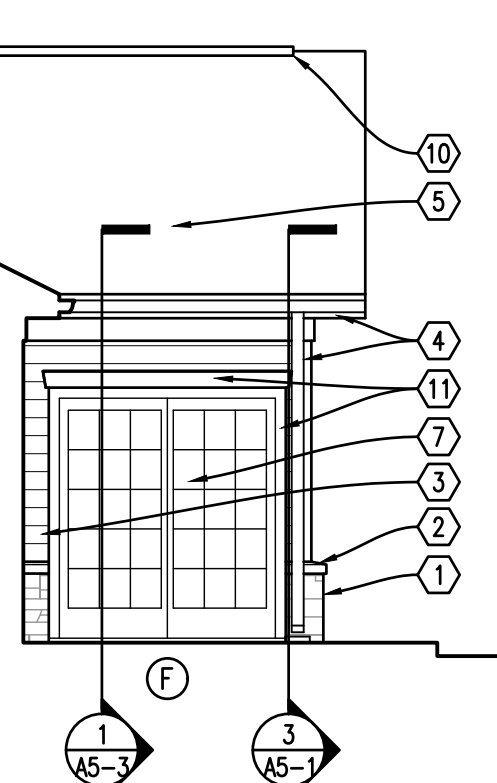
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ELEVATION

3/16" = 1'-0"

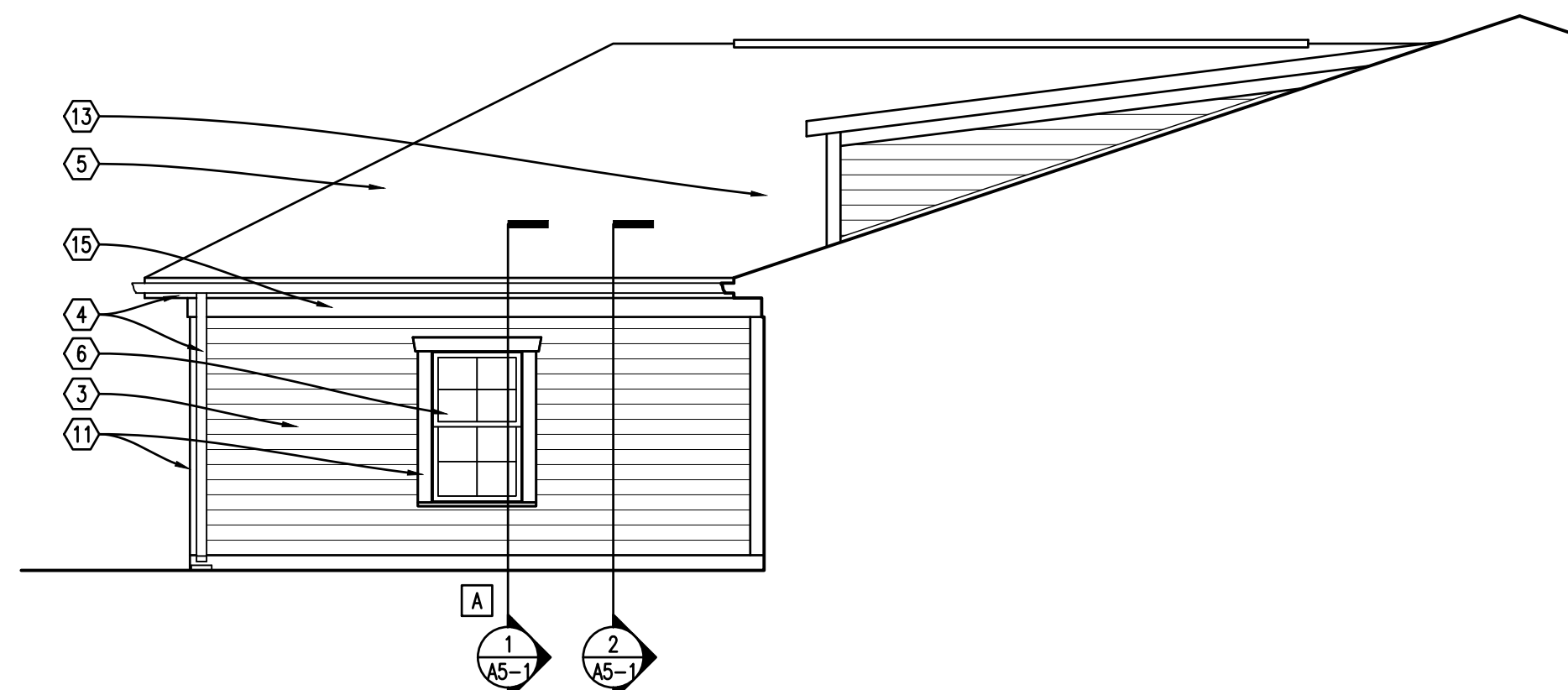
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ELEVATION

3/16" = 1'-0"

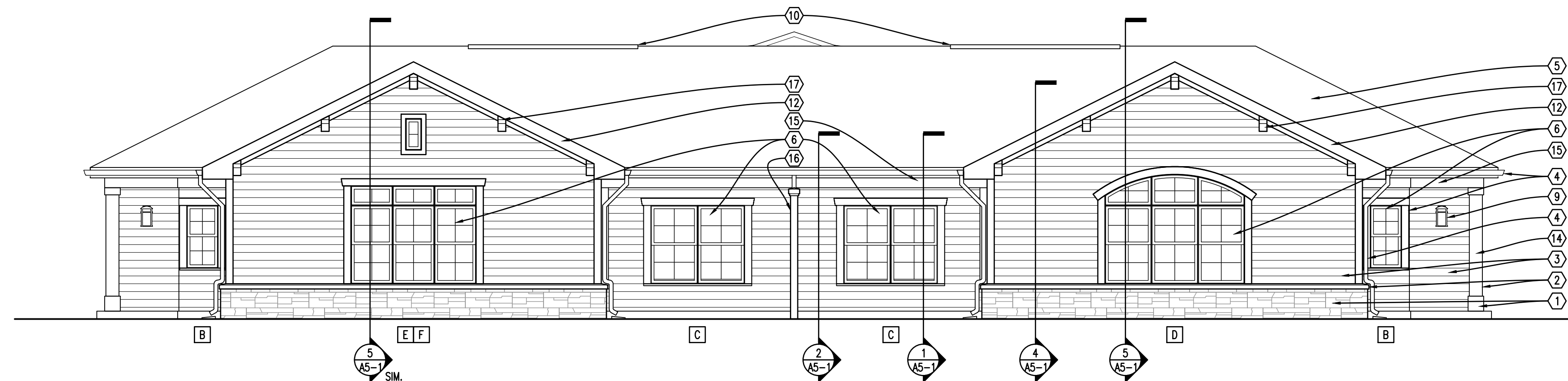
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ELEVATION

3/16" = 1'-0"

B

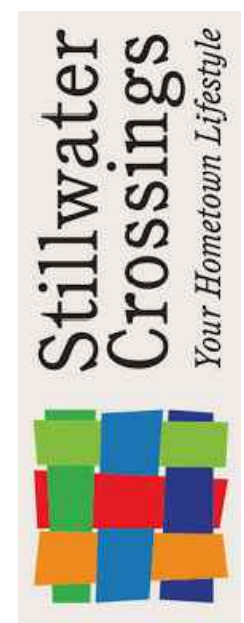


ELEVATION

3/16" = 1'-0"

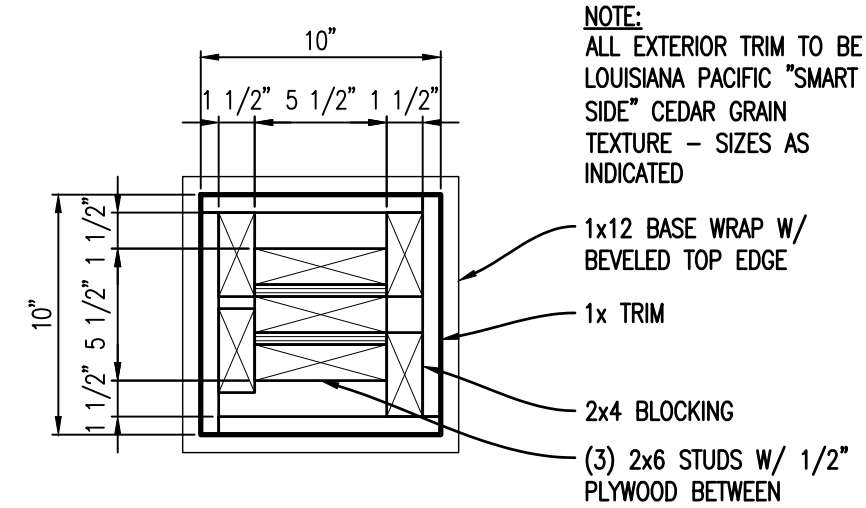
A

A circular professional seal for John M. Roll. The outer ring contains the text "STATE OF OHIO" on the left and "REGISTERED ARCHITECT" on the right, separated by two stars. The inner circle contains the name "JOHN M. ROLL" and the number "10658".



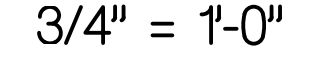
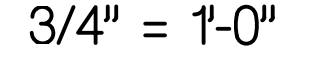
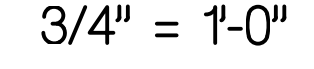
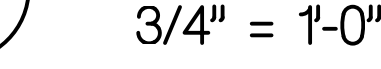
DWG. NO.

A5-2



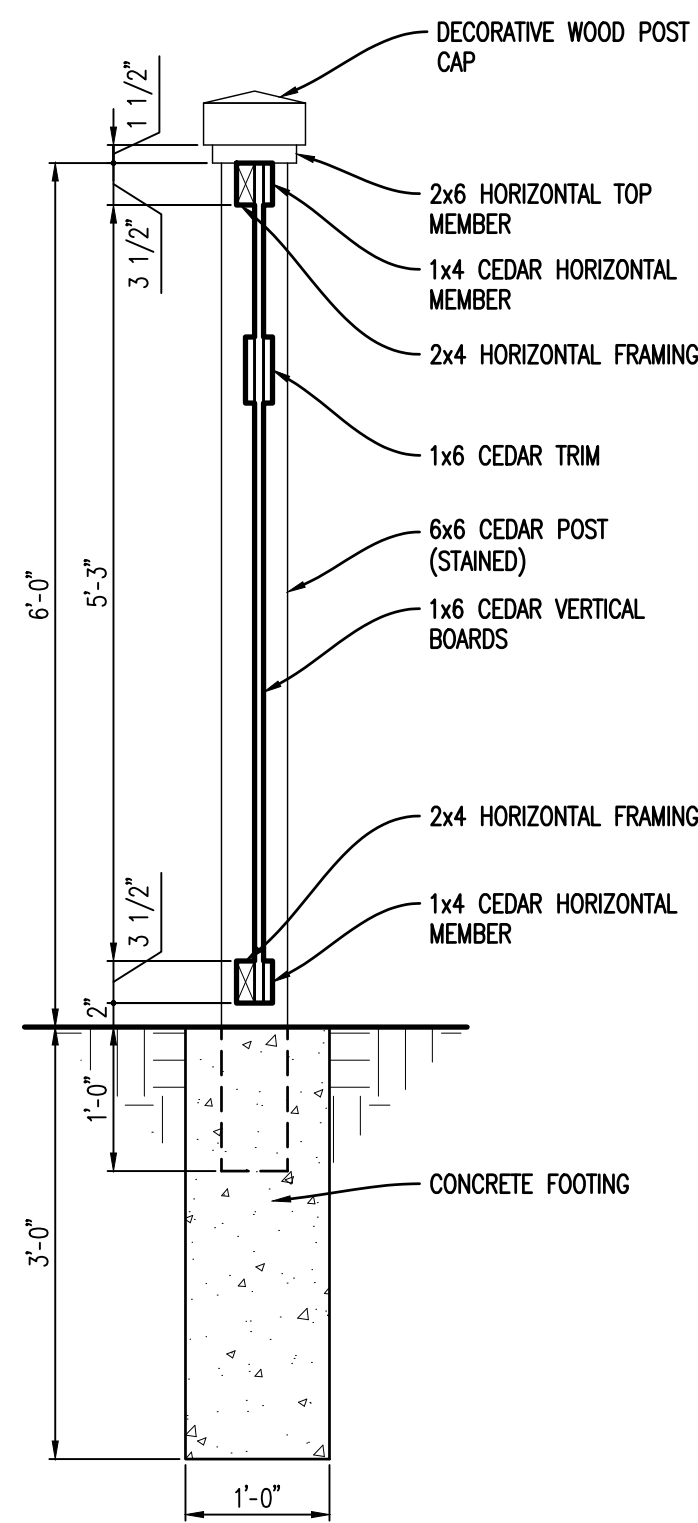
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(5)



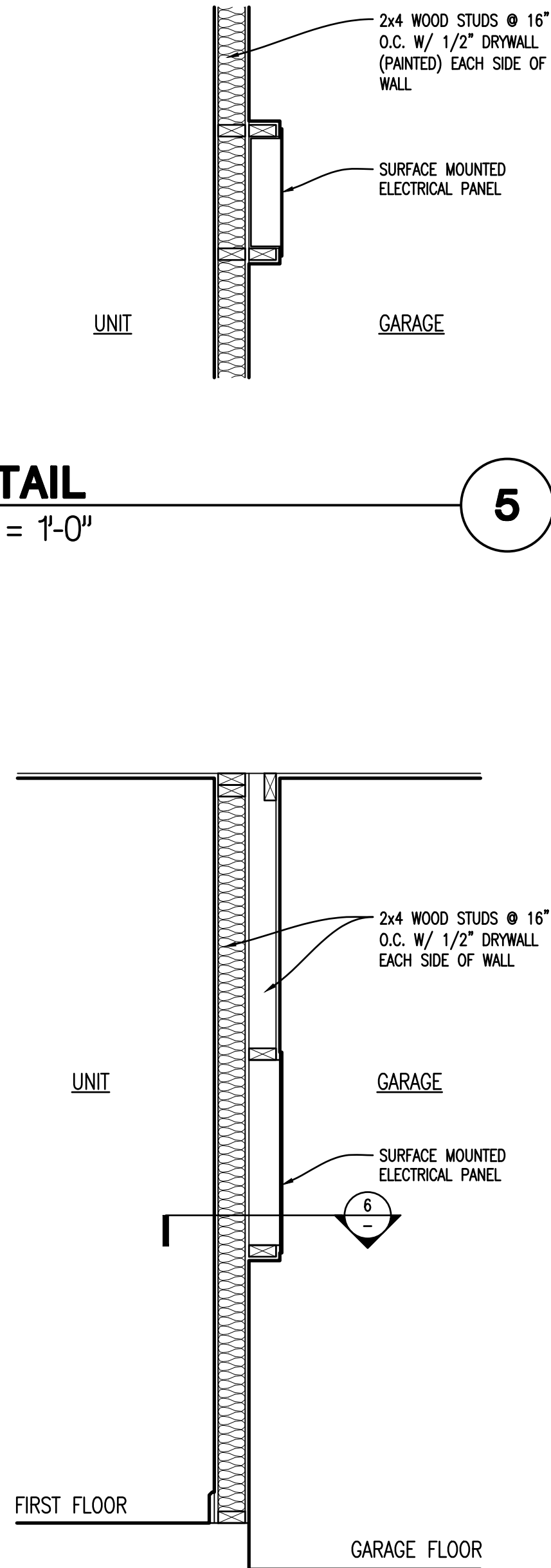
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FENCE SECTION
3/4" = 1'-0"



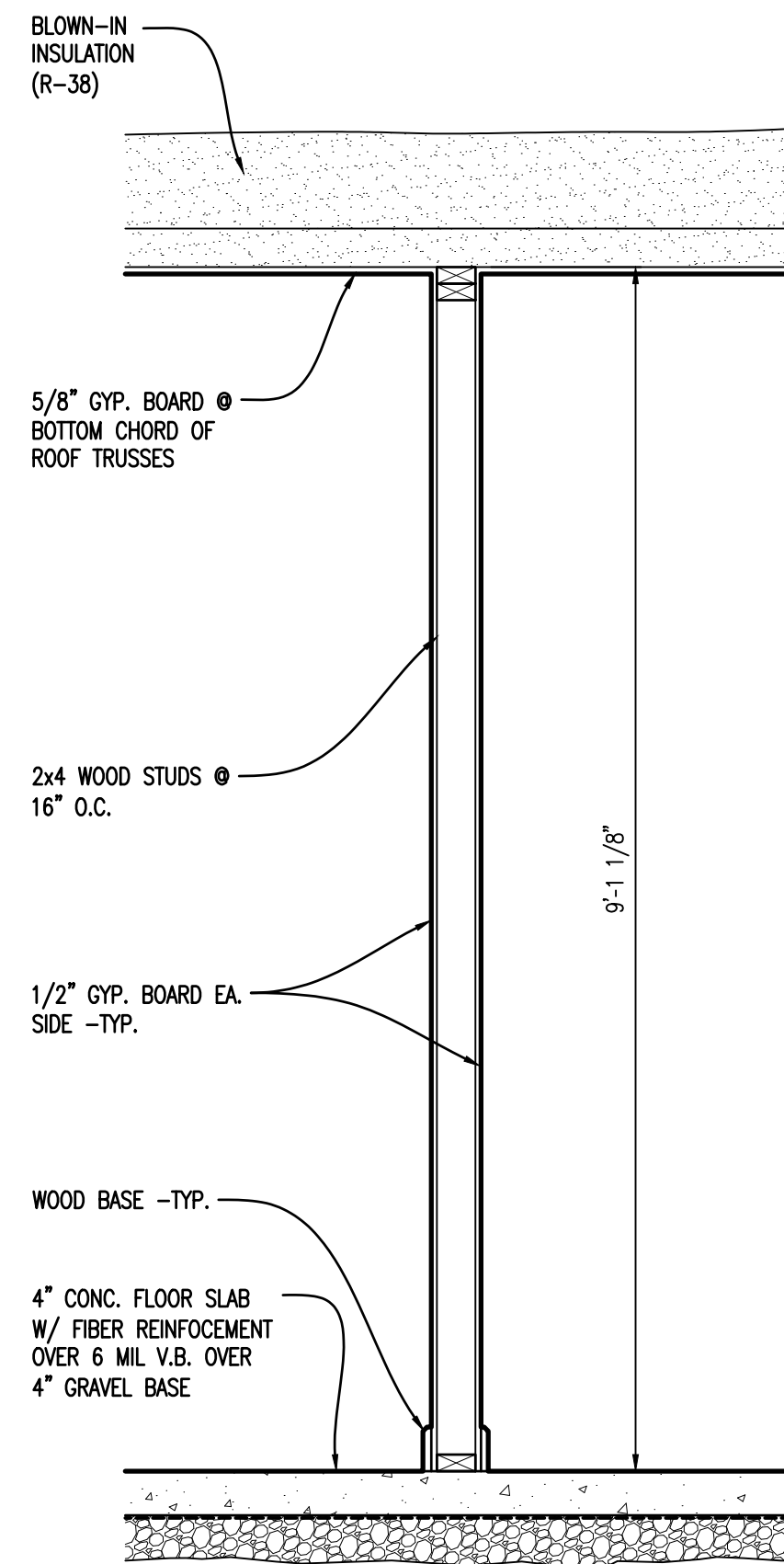
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WALL SECTION
3/4" = 1'-0"



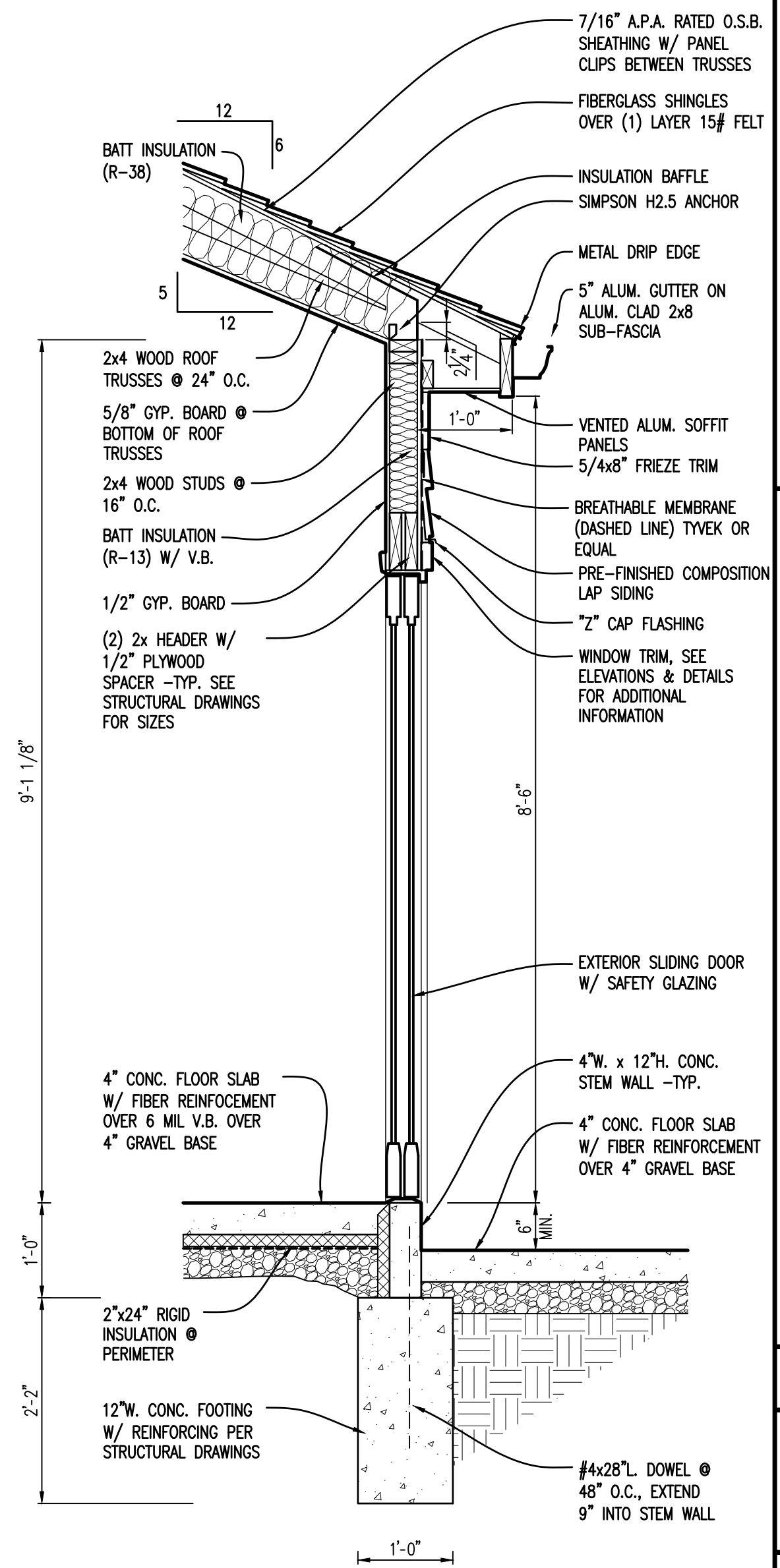
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WALL SECTION
3/4" = 1'-0"



2

WALL SECTION
3/4" = 1'-0"



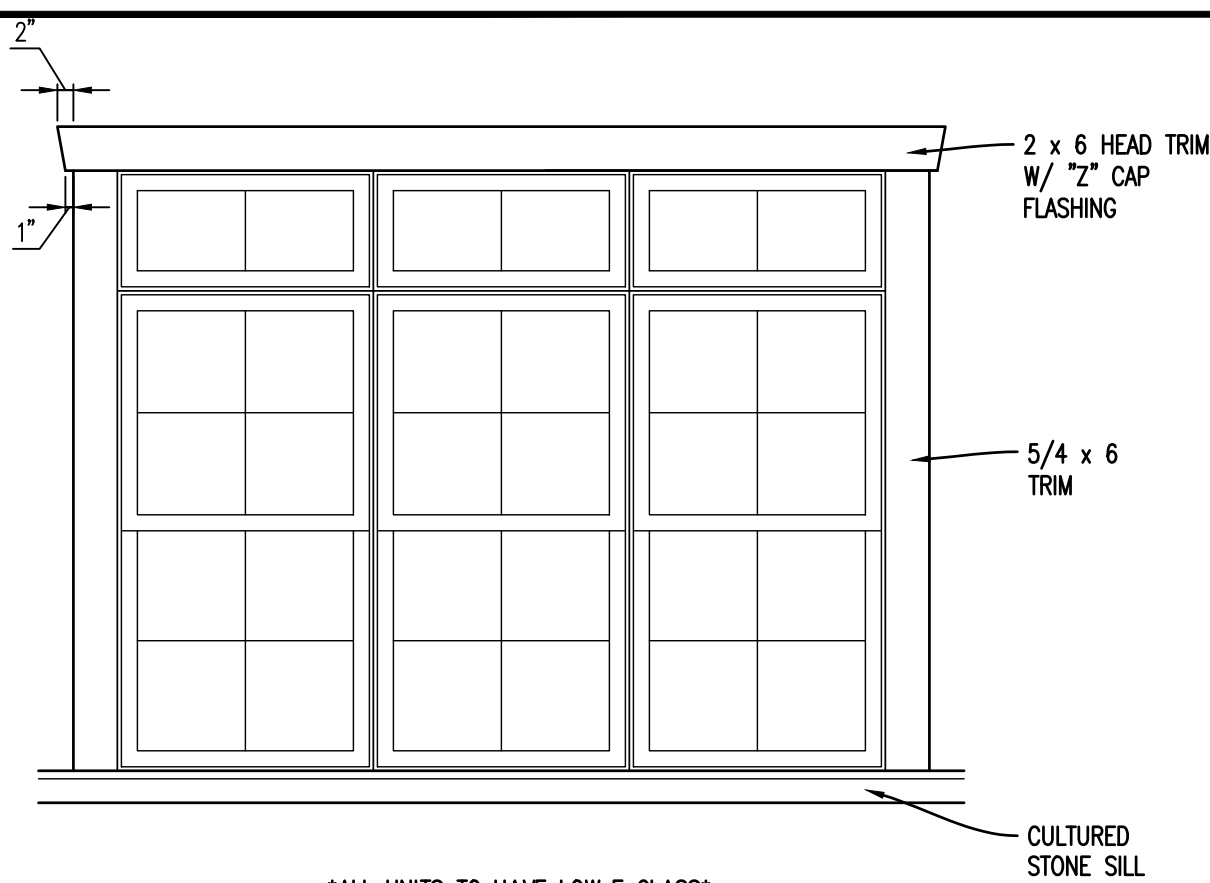
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DATE	DESCRIPTION
7-5-23	BUILDING PERMIT

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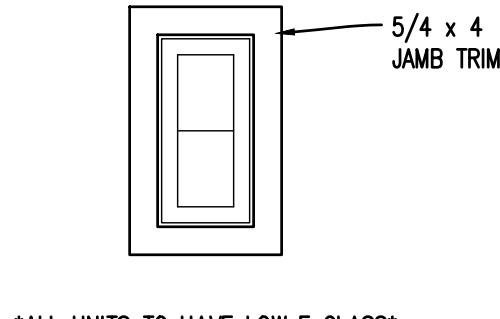
Stillwater Crossings
Your Hometown Lifestyle

PROJECT NO. 56133
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DWG. TITLE WALL SECTIONS
DWG. NO. A5-3



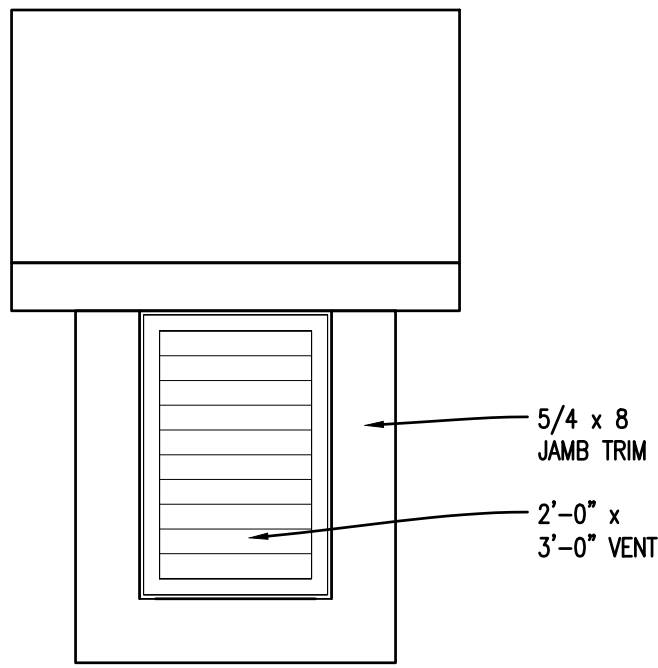
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8010 FIXED TRANSOM
8050 SINGLE HUNG

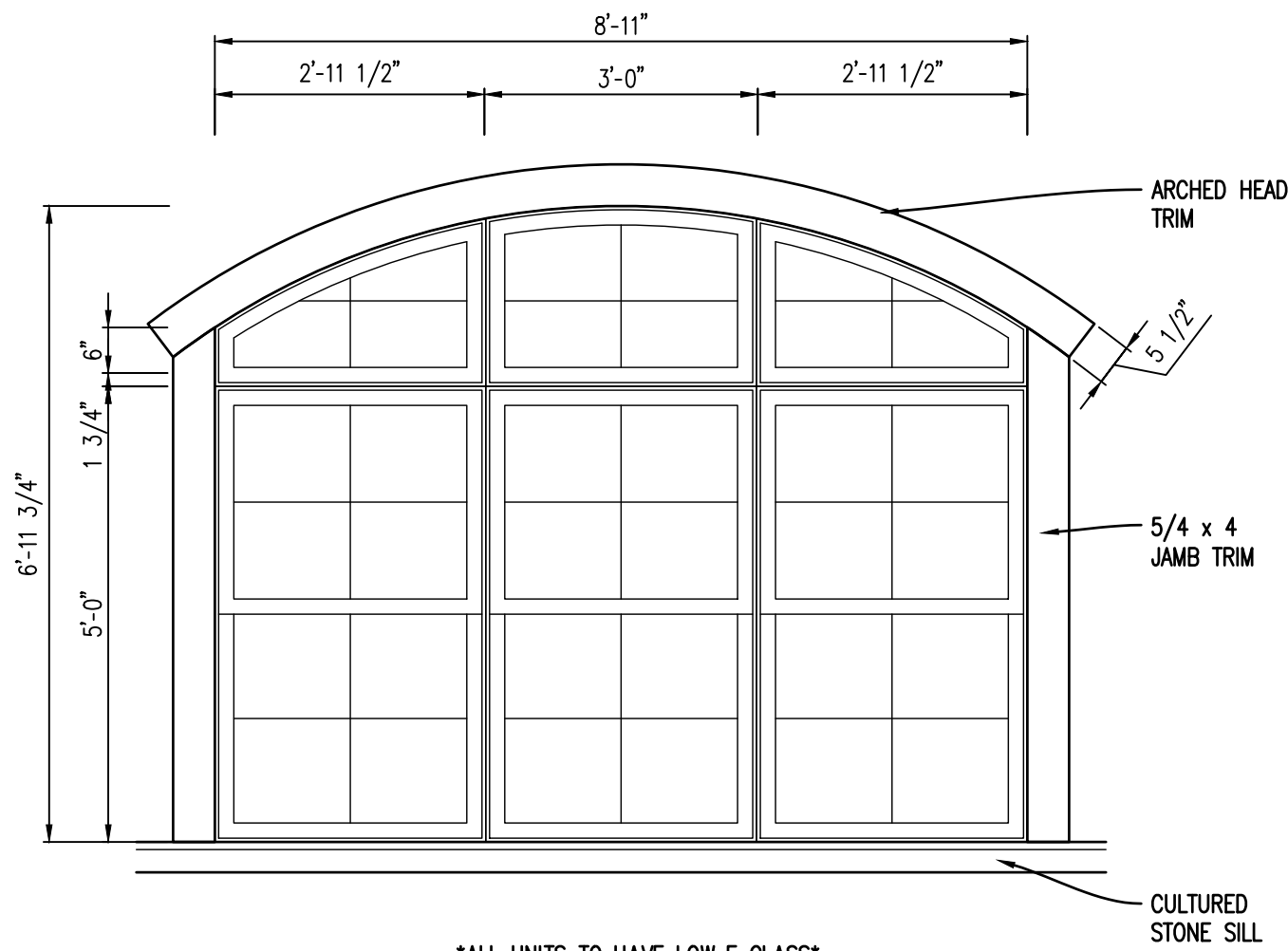


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1020 FIXED

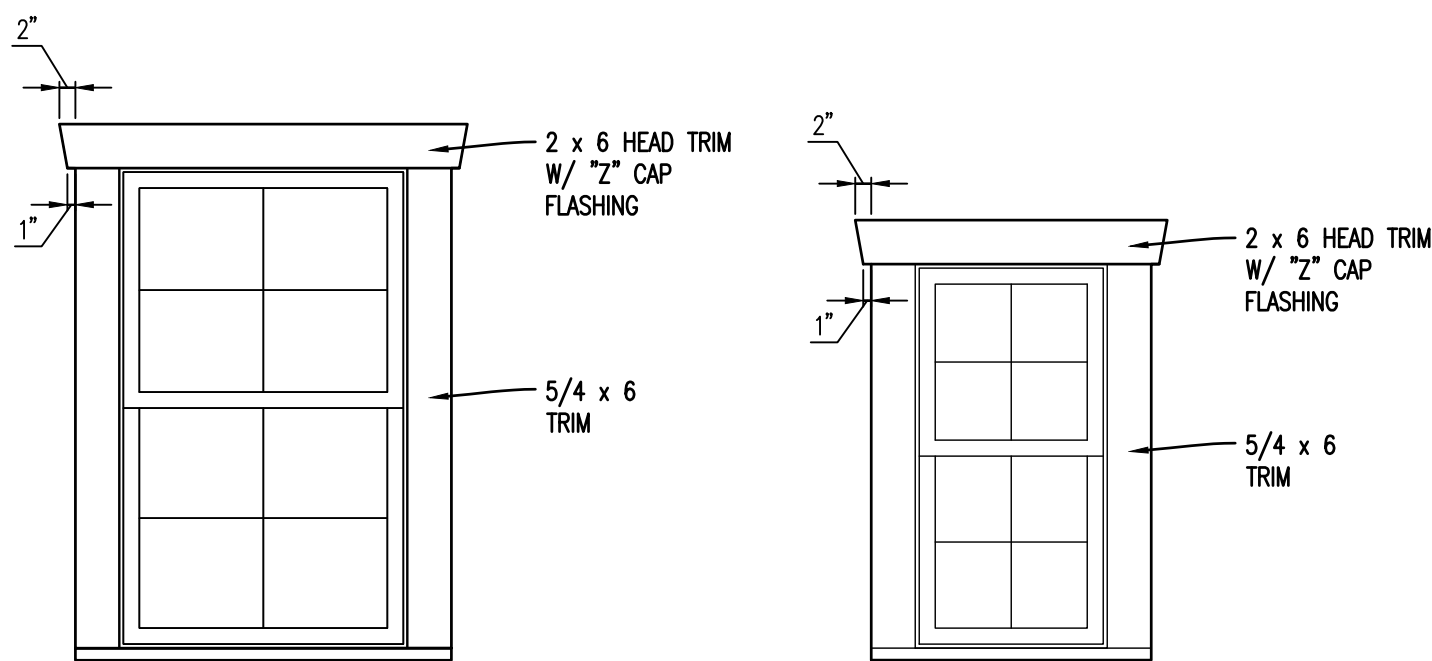


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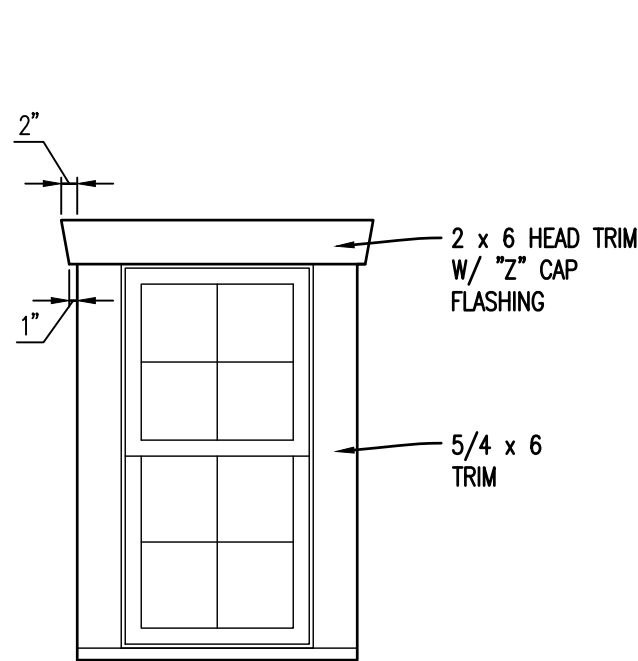
D

811 FIXED ARCH TRANSOM
8150 SINGLE HUNG



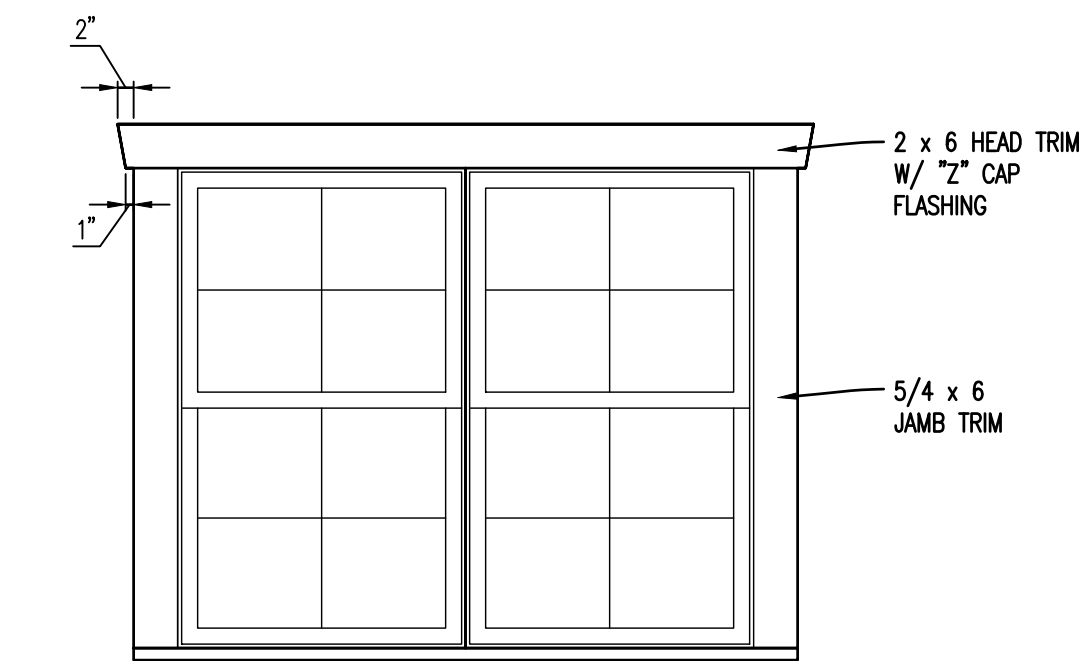
A

(EGRESS WINDOW @ BEDROOM LOCATIONS)
3050 SINGLE HUNG



B

2040 SINGLE HUNG

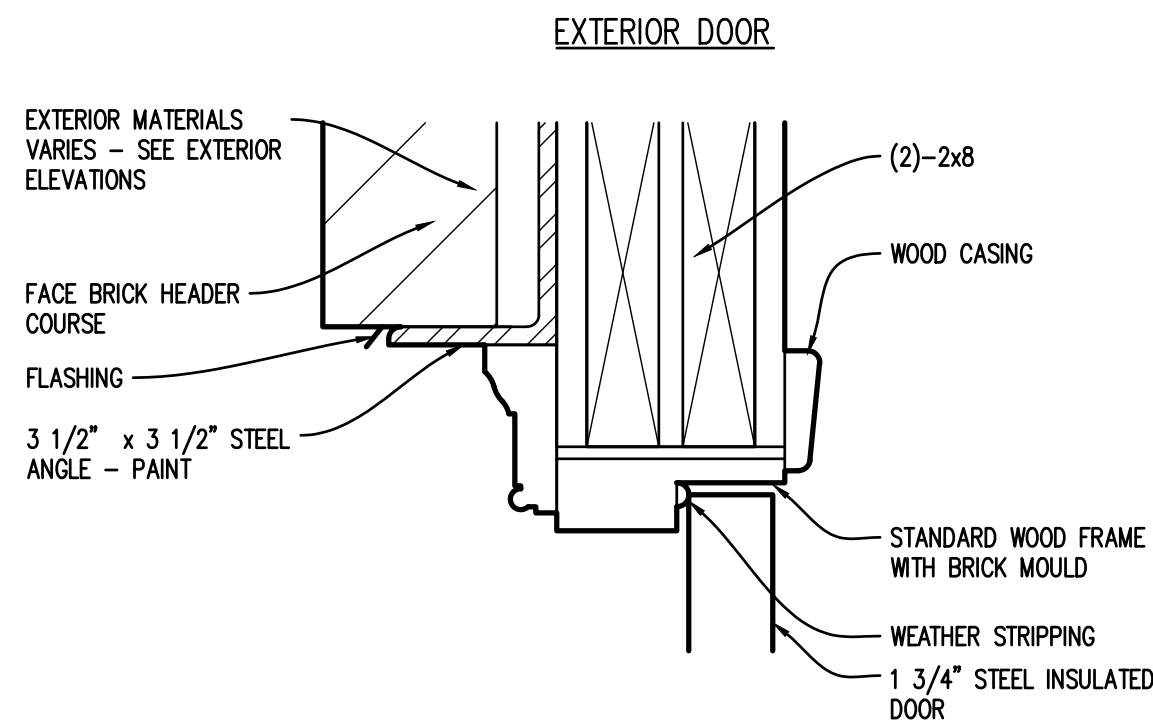


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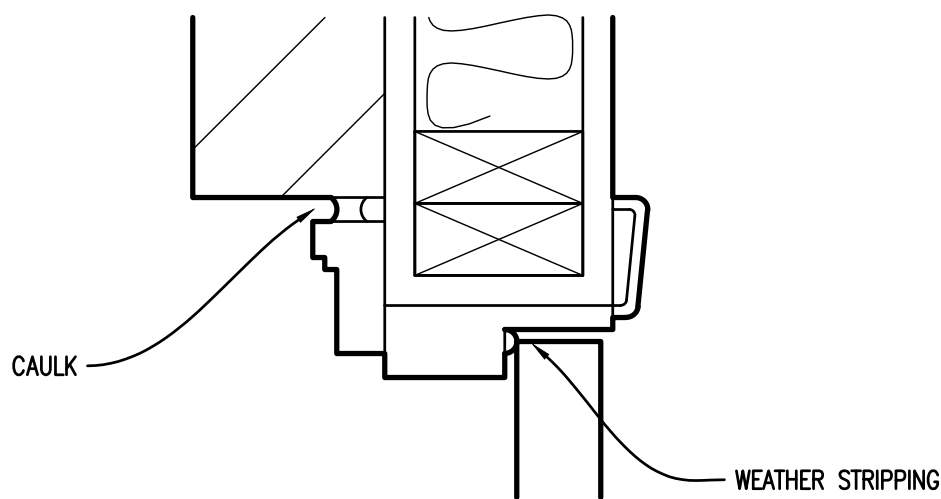
TWIN - 6050 SINGLE HUNG

WINDOW TYPES

1/2" = 1'-0"

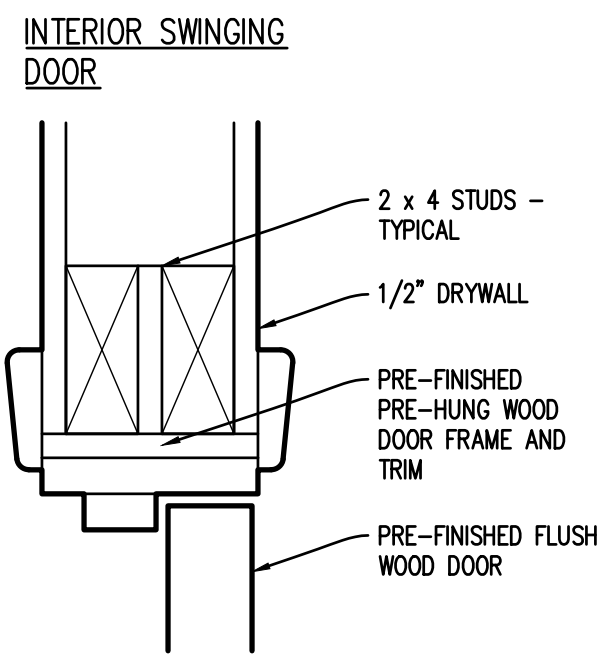


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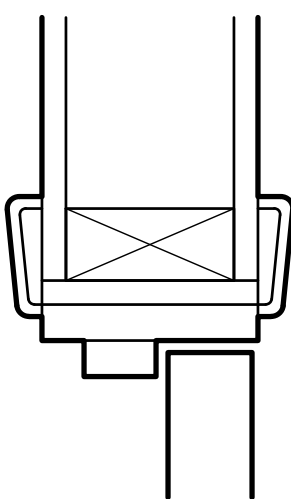


JAMB

A



HEAD



JAMB

B

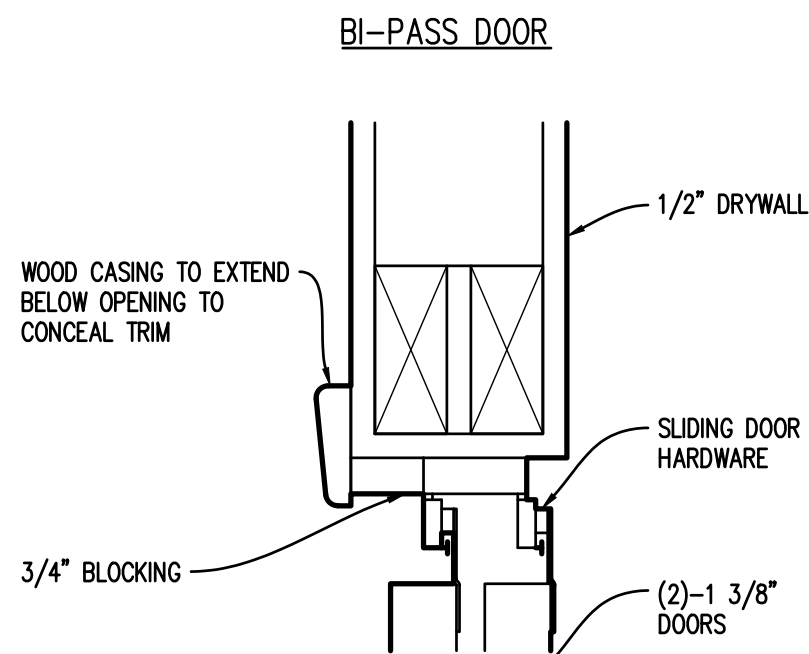
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D

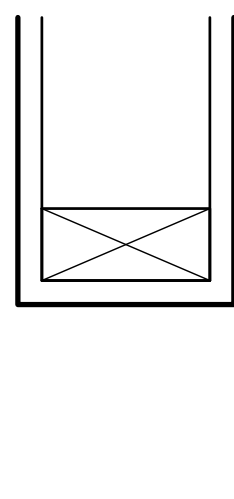
G

HEAD & JAMB DETAILS

3" = 1'-0"

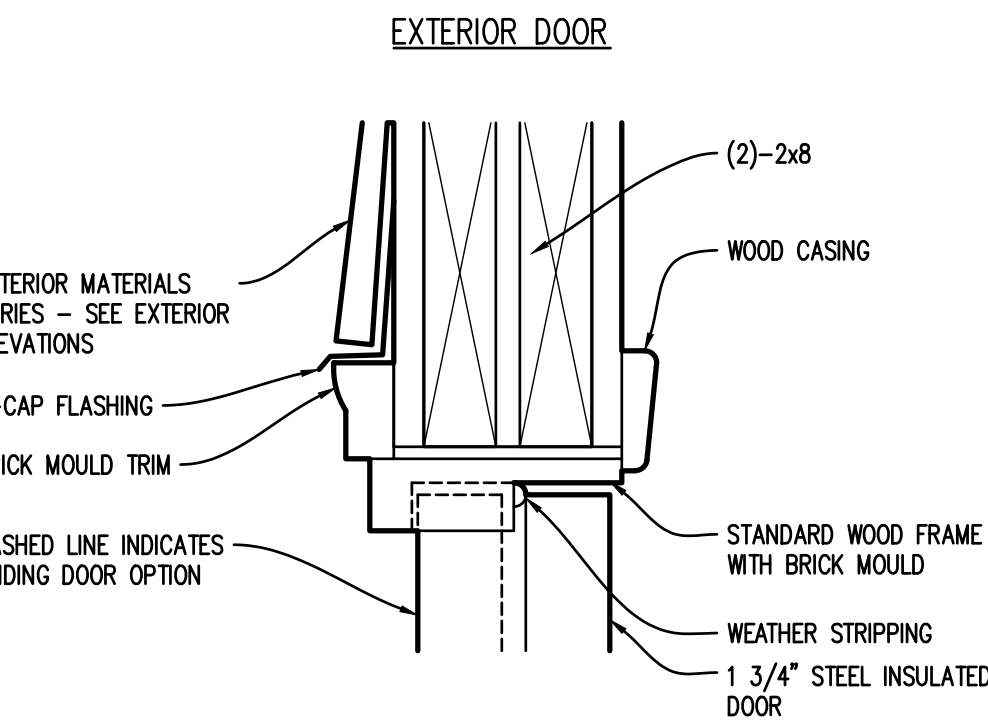


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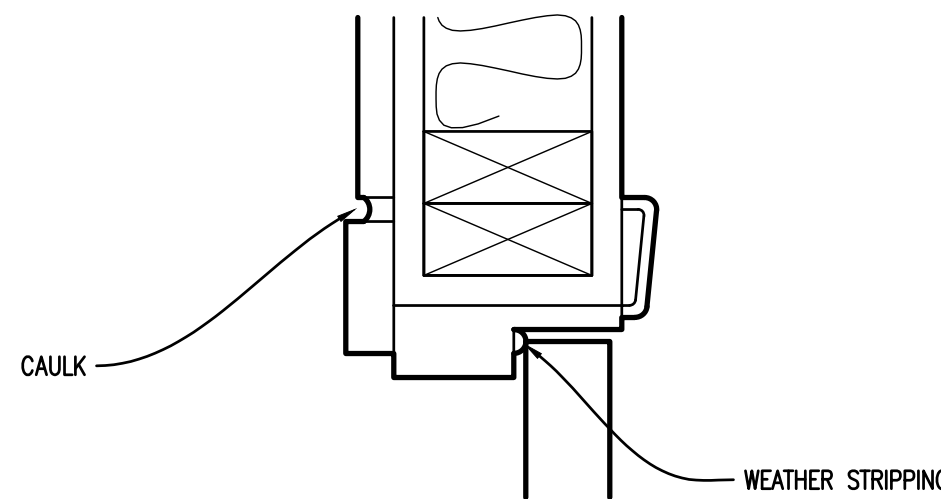


JAMB

E

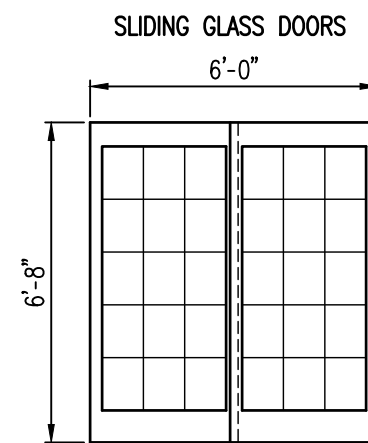


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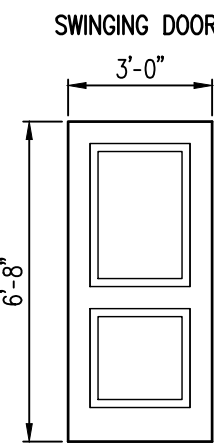


JAMB

F

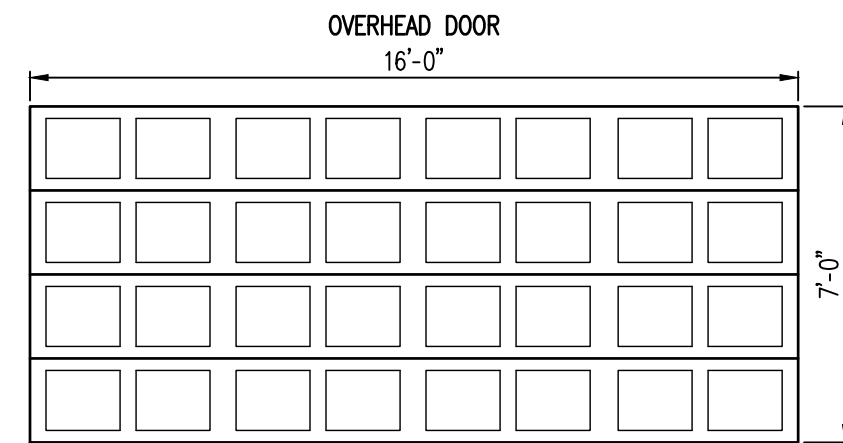


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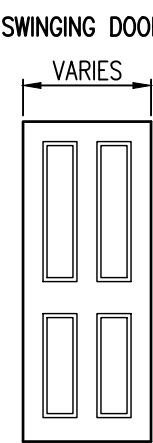


A

G



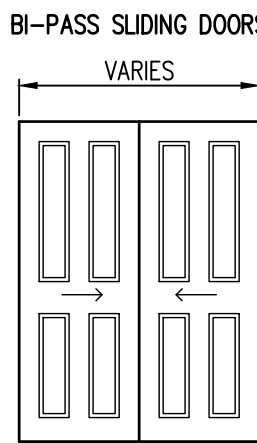
H



B

C

D



E

DOOR TYPES

1/4" = 1'-0"

Window Notes

1. CLEAR OPENINGS FOR ALL BEDROOM WINDOWS SHALL EXCEED 5.7 SF, NET., AND BE 24" MIN. IN HEIGHT AND 20" MIN. IN WIDTH. MAX. SILL HEIGHT FOR ALL BEDROOM WINDOWS SHALL BE 44" A.F.F..
2. TRIM TO BE OFFSET MIN. 1/4" WHERE WINDOW MEETS TRIM FOR CAULKING. COORDINATE WITH WINDOW SELECTION. PAD OUT THE TRIM IF NEEDED.
3. TRIM MATERIAL TO BE LOISIANA PACIFIC "SMART SIDE" CEDAR GRAIN TEXTURE EXTERIOR TRIM IN SIZES INDICATED.
4. ALL UNITS TO HAVE INSULATING LOW E GLASS.

Finish Remarks

1. 3/4"x1/2" SHOE MOULDING.

Finish Abbrev.

CERT	CERAMIC TILE
CONC	CONCRETE
CPT	CARPET
EXP	EXPOSED STRUCTURE
P	PAINT
TXT	TEXTURED FINISH (STIPPLED)
VAULT	VAULTED
VNL	VINYL
WD	WOOD

Door Remarks

1. INSULATED ADA COMPLIANT ENTRY DOOR W/ PEEP HOLE.
2. INSULATED ENTRY DOOR.
3. BI-PASS DOOR & HARDWARE W/ T-ASTRAGAL. FRAMER TO ADD 1/2" TO ROUGH OPENING.
4. INSULATED SLIDING PATIO DOOR (TEMPERED GLASS) & HARDWARE.
5. NOT USED.
6. INSULATED PANELED OVERHEAD DOOR.
7. T-ASTRAGAL.
8. FRAMER TO ADD 1/2" TO WIDTH OF ROUGH OPENING.

Door Abbrev.

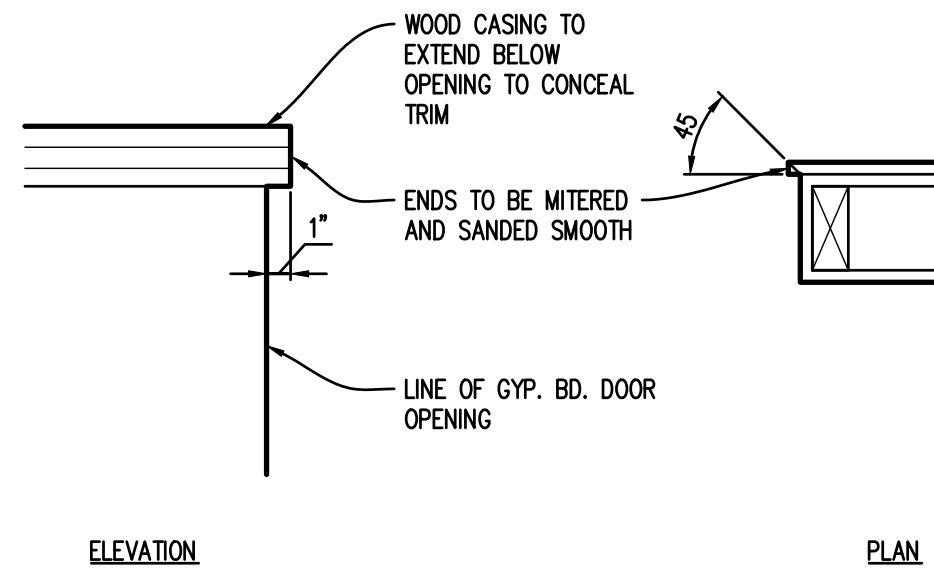
CLAD	ALUMINUM-CLAD WINDOW
DB	DEADBOLT
ENT	ENTRANCE
HC	HOLLOW CORE MASONITE
HM	HOLLOW METAL
MANUF	MANUFACTURER SUPPLIED
PASS	PASSAGE
PRI	PRIVACY
STL	STEEL

INTERIOR FINISH SCHEDULE

ROOM OR AREA	FLOOR	BASE	WALLS	CEILING	REMARKS
NAME					
FOYER	CERT	WD	P P P P	TXT VAULT	
LIVING ROOM	CPT	WD	P P P P	TXT VAULT	
DINING ROOM	CPT	WD	P P P P	TXT 9'-0"	
KITCHEN	VNL	WD	P P P P	TXT 9'-0"	1
BEDROOM	CPT	WD	P P P P	TXT 9'-0"	
LAUNDRY	VNL	WD	P P P P	TXT 9'-0"	
MECHANICAL	CONC	WD	P P P P	TXT 9'-0"	
PANTRY	VNL	WD	P P P P	TXT 9'-0"	1
HALL	CPT	WD	P P P P	TXT 9'-0"	
COAT CLOSET	CPT	WD	P P P P	TXT 9'-0"	
GARAGE	CONC	-	P P P P	TXT VARIES	
MASTER BEDROOM	CPT	WD	P P P P	TXT 9'-0"	
BATH	VNL	WD	P P P P	TXT 9'-0"	
MASTER BATH	VNL	WD	P P P P	TXT 9'-0"	
CLOSET	CPT	WD	P P P P	TXT 9'-0"	
MASTER CLOSET	CPT	WD	P P P P	TXT 9'-0"	

DOOR SCHEDULE

DOOR OR OPENING MARK	OPENING SIZE	THICKNESS	MAT'L	GLAZ.	FRAME	SILL	LABEL HRS.	HWDR.	REMARKS
	W H								
A	3'-0" 6'-8"	1 3/8"	HM	-	WD	YES	-	ENT/DB	1
B	2'-10" 6'-8"	1 3/8"	HC	-	WD	-	-	PRI	
C	2'-10" 6'-8"	1 3/8"	HC	-	WD	-	-	PASS	
D	2'-8" 6'-8"	1 3/8"	HC	-	WD	-	-	PASS	
E	(2)2'-6" 6'-8"	1 3/8"	HC	-	WD	-	-	MANUF	3
F	6'-0" 6'-8"	1 3/4"	CLAD	FULL	WD	YES	-	MANUF	4
G	3'-0" 6'-8"	1 3/8"	HM	-	WD	YES	1/3	ENT/DB	2
H	16'-0" 7'-0"	1 3/8"	STL	-	WD	-	-	MANUF	6
J	3'-0" 8'-6"	4 1/2"	-	-	-	-	-	-	5

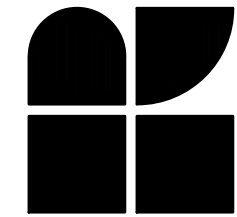


WOOD CASING DETAIL AT BI-FOLD AND BI-PASS DOORS

CASING DETAILS

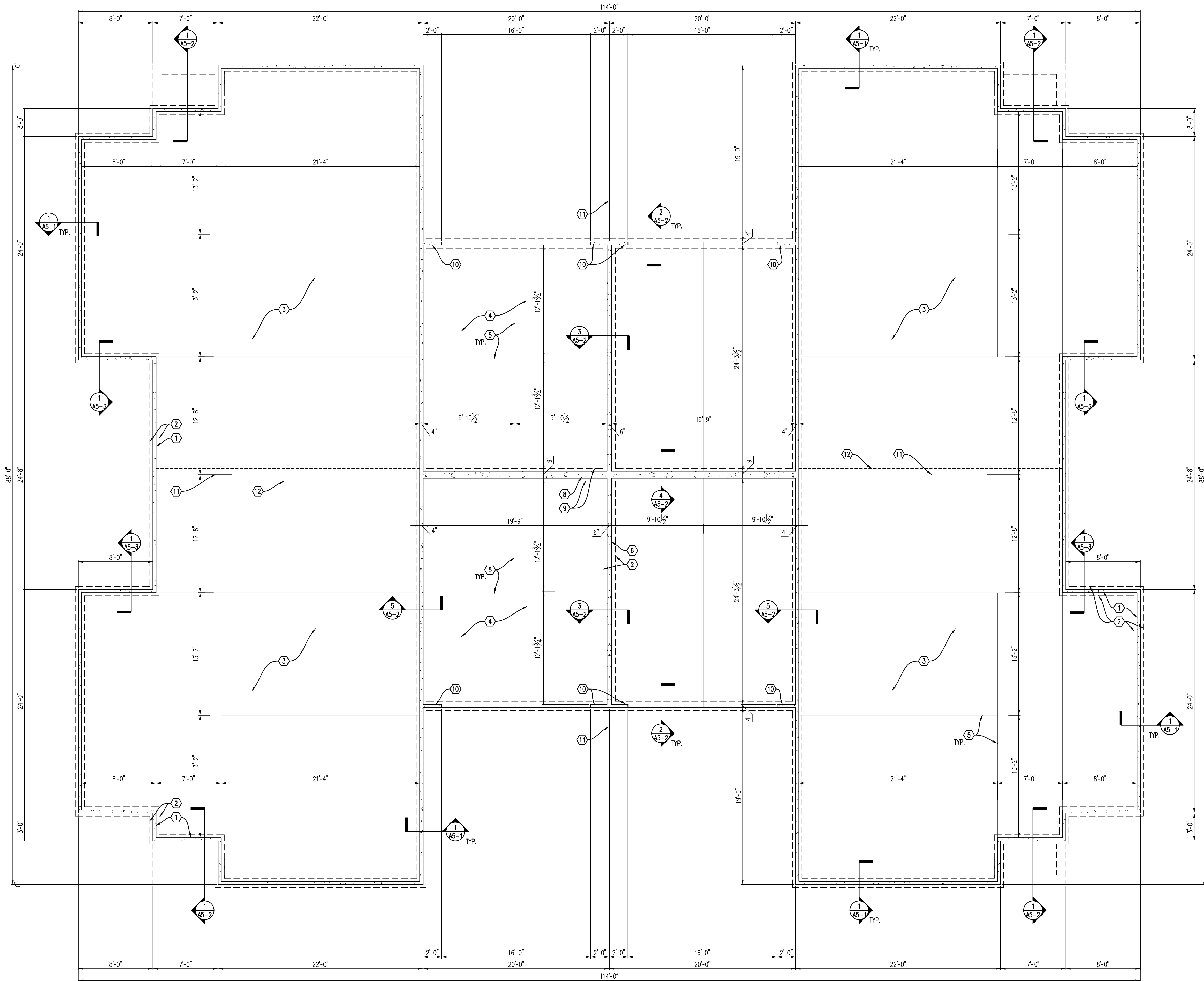
1 1/2" = 1'-0"

ROLL & ASSOCIATES, INC.
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PROJECT NO.
56133
PROJECT TITLE
BUILDING 4
VILLAS @
WEST MILTON
DWG. TITLE
SCHEDULES,
WINDOW &
DOOR DETAILS
DWG. NO.

A6-1



FOUNDATION PLAN

3/16" = 1'-0"

Design Loads

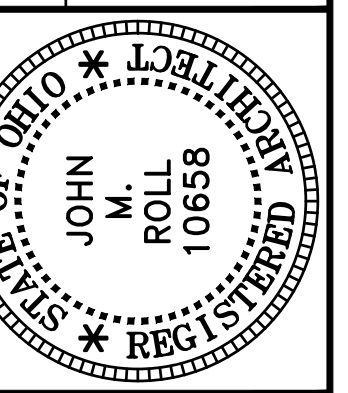
(OBC 2017/IBC 2015/ASCE 7-10)

- CODE REFERENCES:
 - ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.
 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318-2014.
 - MANUAL OF STEEL CONSTRUCTION - AISC, 360-10.
 - SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS - 2014.
 - STRUCTURAL WELDING CODE - STEEL, AWS/A5W D1.1 - 2011.
 - FOUNDATION DESIGN WAS COMPLETED USING AN ASSUMED ALLOWABLE BEARING CAPACITY OF 1,000 PSF.
- ROOF LIVE LOAD:
 - MINIMUM DESIGN ROOF LIVE LOAD 20 PSF
- ROOF SNOW LOAD (ASCE 7-10):
 - GROUND SNOW LOAD, P_g 20 PSF
 - FLAT-ROOF SNOW LOAD, P_f 14 PSF
 - SNOW EXPOSURE FACTOR, C_e 1.0
 - SNOW LOAD IMPORTANCE FACTOR, I 1.0
 - SNOW THERMAL FACTOR, C_t 1.0
- WIND DESIGN PARAMETERS: (ASCE 7-10)
 - BASIC WIND SPEED 115 MPH (ULTIMATE)
 - WIND LOAD IMPORTANCE FACTOR 1.0
 - WIND EXPOSURE EXPOSURE C
 - INTERNAL PRESSURE COEFFICIENT ± 0.18
 - COMPONENT & CLADDING WIND PRESSURES $+18.4/-24.5$ PSF ($@ 20'$)
- SEISMIC DESIGN PARAMETERS: (ASCE 7-10)
 - MAPPED SPECTRAL RESPONSE ACCELERATION:
 - $S_s = 0.183$, $S_1 = 0.069$
 - SITE CLASS = D
 - $R = 2$, LIGHT FRAMED BEARING WALLS WITH SHEAR PANELS OF ALL OTHER MATERIALS.

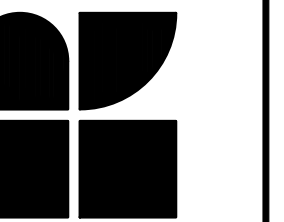
Foundation Notes

- 4"x12" CONC. STEM WALL W/ (1) #5 CONT. HORIZ. REINF. & 1/2" ϕ x 12"L. ANCHOR BOLTS ϕ 48" O.C.
- 12" W. CONC. FOOTING W/ (3) #5's CONT. HORIZ. REINF. & #4 x 28"L. DOWEL ϕ 48" O.C., EMBED 9" INTO STEM WALL.
- 4" CONC. FLOOR SLAB OVER 4 MIL VAPOR BARRIER OVER 4" COMPACTED GRAVEL BASE. PROVIDE FIBER REINFORCEMENT.
- 4" CONC. FLOOR SLAB OVER 4" COMPACTED GRAVEL BASE. PROVIDE FIBER REINFORCEMENT.
- SAW CUT CONTROL JOINTS, 1/8" W. x 1/4" D.
- 6" CONC. STEM WALL W/ (1) #5 CONT. HORIZ. REINF. & 1/2" ϕ x 12"L. ANCHOR BOLTS ϕ 48" O.C.
- NOT USED.
- 9"x12" CONC. STEM WALL W/ (1) #5 CONT. HORIZ. REINF. & 1/2" ϕ x 12"L. ANCHOR BOLTS ϕ 48" O.C.
- 16" W. x 32" D. CONC. FOOTING W/ (3) #5's CONT. HORIZ. REINF. & #4 x 28"L. DOWEL ϕ 48" O.C., EMBED 9" INTO STEM WALL.
- PROVIDE MIN. (2) ANCHOR BOLTS EA. SIDE OF GARAGE DOOR.
- COMMON ϕ BETWEEN UNITS.
- 16" W. x 8" D. THICKENED SLAB W/ (2) #4's CONT.

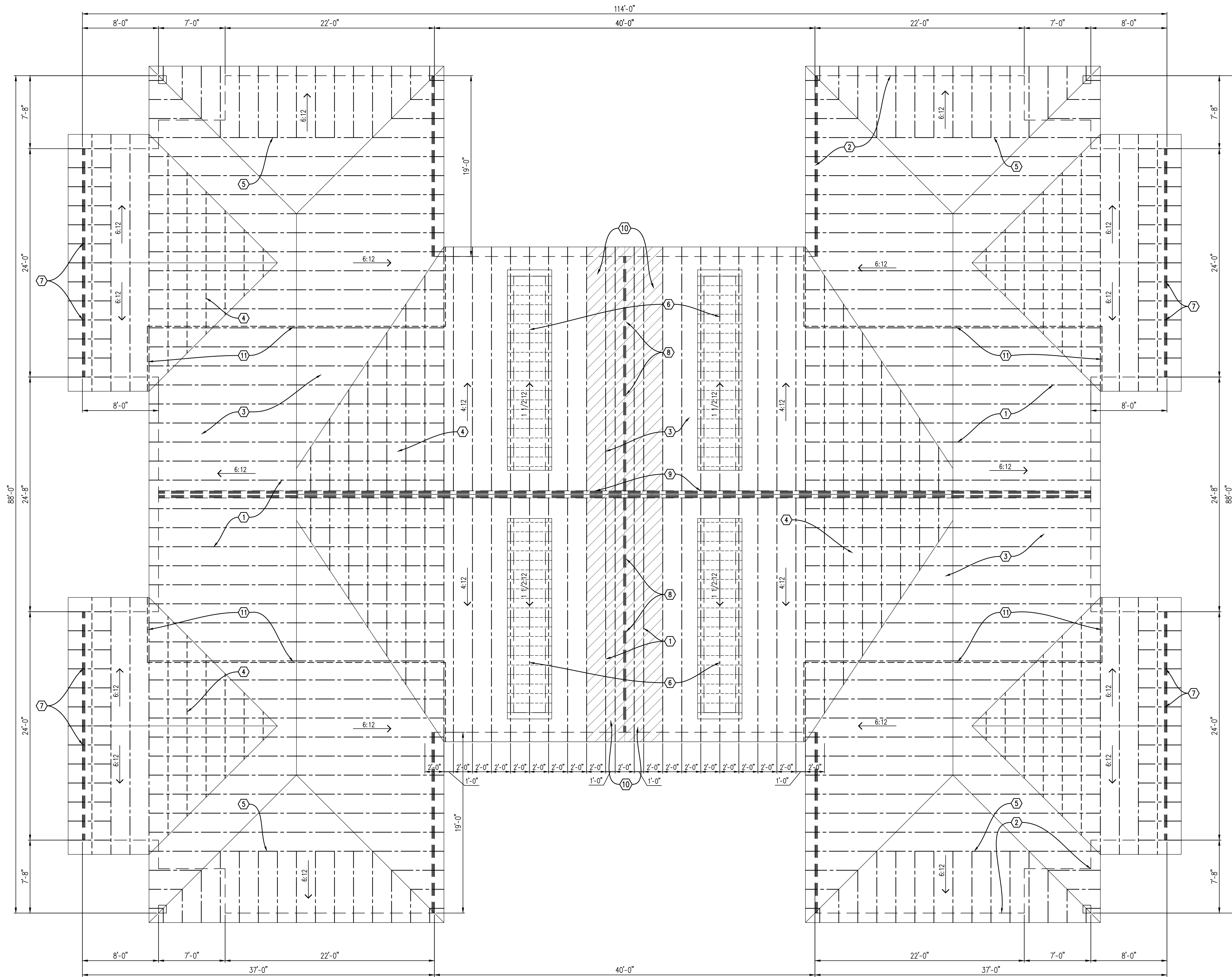
DATE	DESCRIPTION
7-5-23	BUILDING PERMIT



ROLL & ASSOCIATES, INC.
ARCHITECTS & PLANNERS
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PROJECT NO. 56133
PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE FOUNDATION PLAN
DWG. NO. S-1



ROOF FRAMING PLAN

3/16" = 1'-0"

General Notes

1. THIS DRAWING REPRESENTS A SCHEMATIC DESIGN. FINAL TRUSS DRAWINGS, LAYOUT, & CERTIFICATION BY TRUSS MANUFACTURER.
2. PROVIDE ACCESS TO ATTIC AREA (20'x30' MINIMUM).

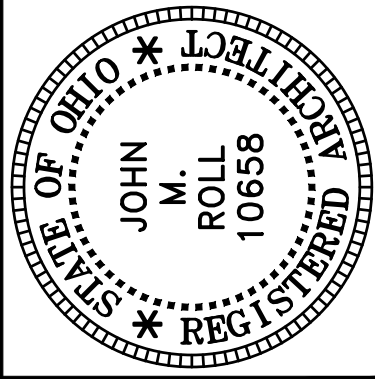
Framing Notes

1. PREFABRICATED ROOF TRUSSES @ 24" O.C.
2. 2x4 WOOD STUDS @ 16" O.C. BELOW, DOUBLE TOP PLATE W/ SIMPSON H2.5 ANCHOR @ EVERY TRUSS.
3. 7/16" A.P.A. RATED O.S.B. SHEATHING W/ PANEL CLIPS.
4. OVERBUILD W/ VALLEY TRUSSES @ 24" O.C.
5. GIRDER TRUSS, TYPICAL.
6. DORMER FRAMING OVER TRUSSES.
7. 2x4 LADDER FRAMING.
8. 2-HOUR FIRE RATING PER U.L. DESIGN NO. U301.
9. 1-HOUR FIRE RATING PER U.L. DESIGN NO. U341.
10. PROVIDE FIRE RETARDANT TREATED PLYWOOD ROOF DECKING MINIMUM 4'-0" EACH SIDE OF 2 HOUR FIRE BARRIER (HORIZ. HATCHING).
11. ATTIC DRAFTSTOPPING: 1/2" GYP. BOARD OR 3/8" WOOD STRUCTURAL PANELS, APPLIED TO SIDE OF ROOF TRUSS.

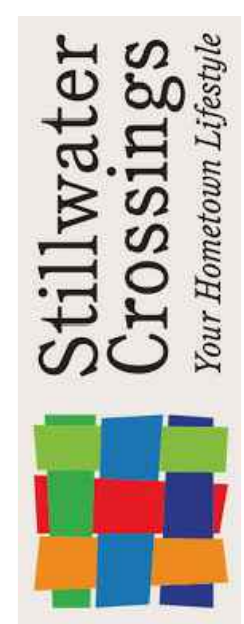
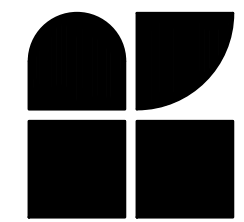
Legend

--- SHEAR WALL W/ FASTENING PATTERN USING 8D OR #10 SCREWS; 6" O.C. ALONG EDGES, 16" O.C. FIELD.

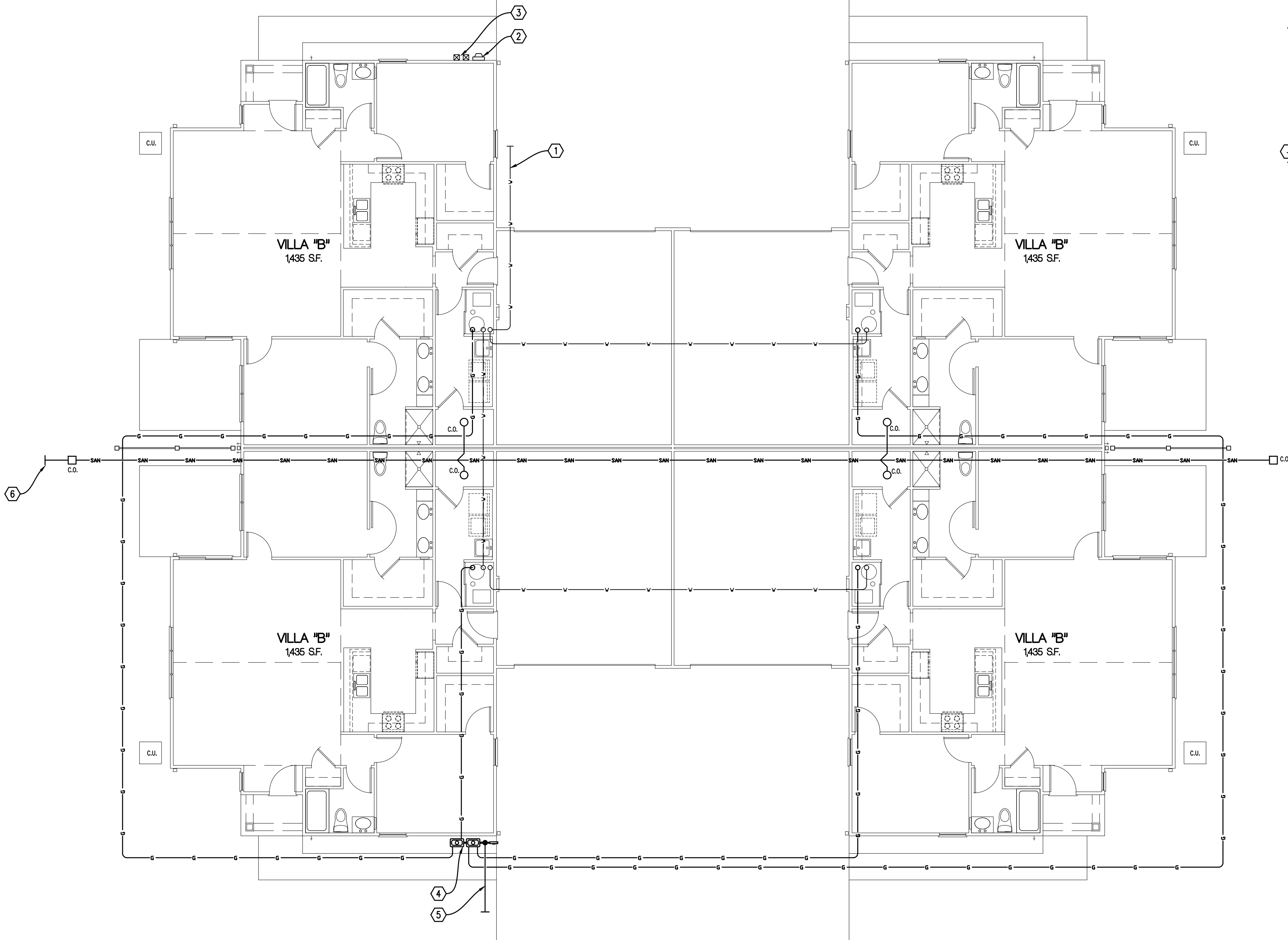
DATE	DESCRIPTION
7-5-23	BUILDING PERMIT



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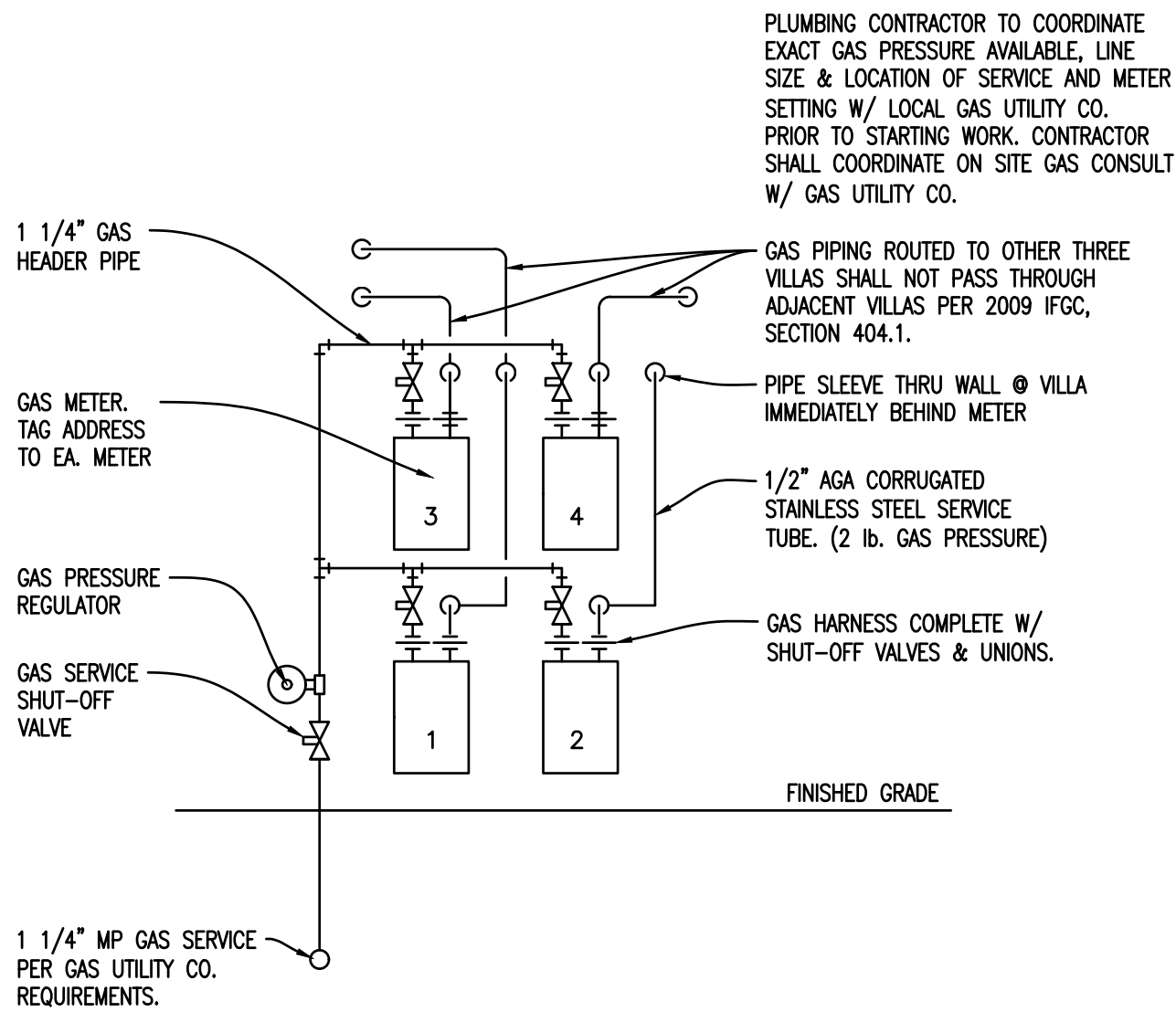


PROJECT NO. 56133
PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE ROOF FRAMING PLAN
DWG. NO. S-2

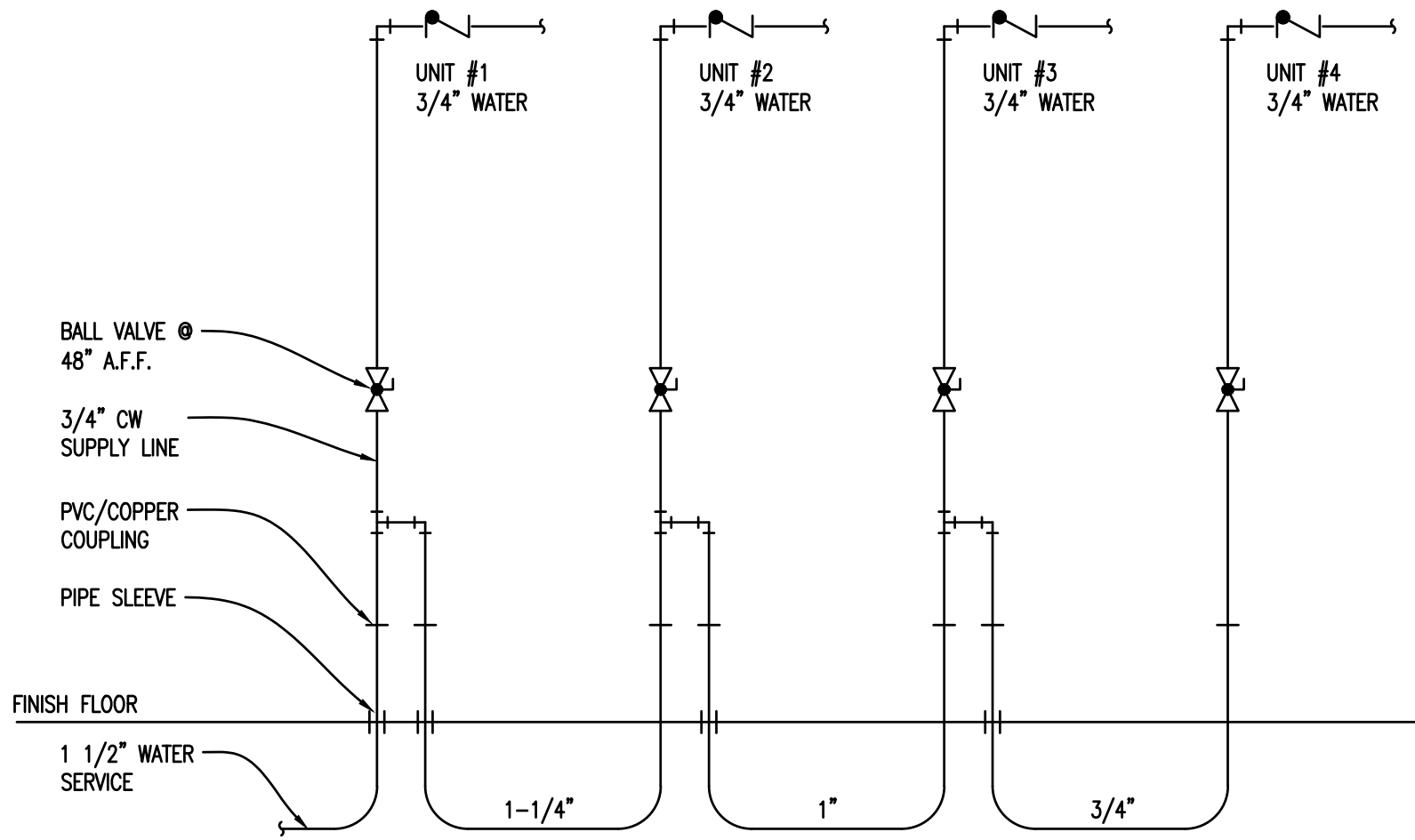


OVERALL UTILITY PLAN

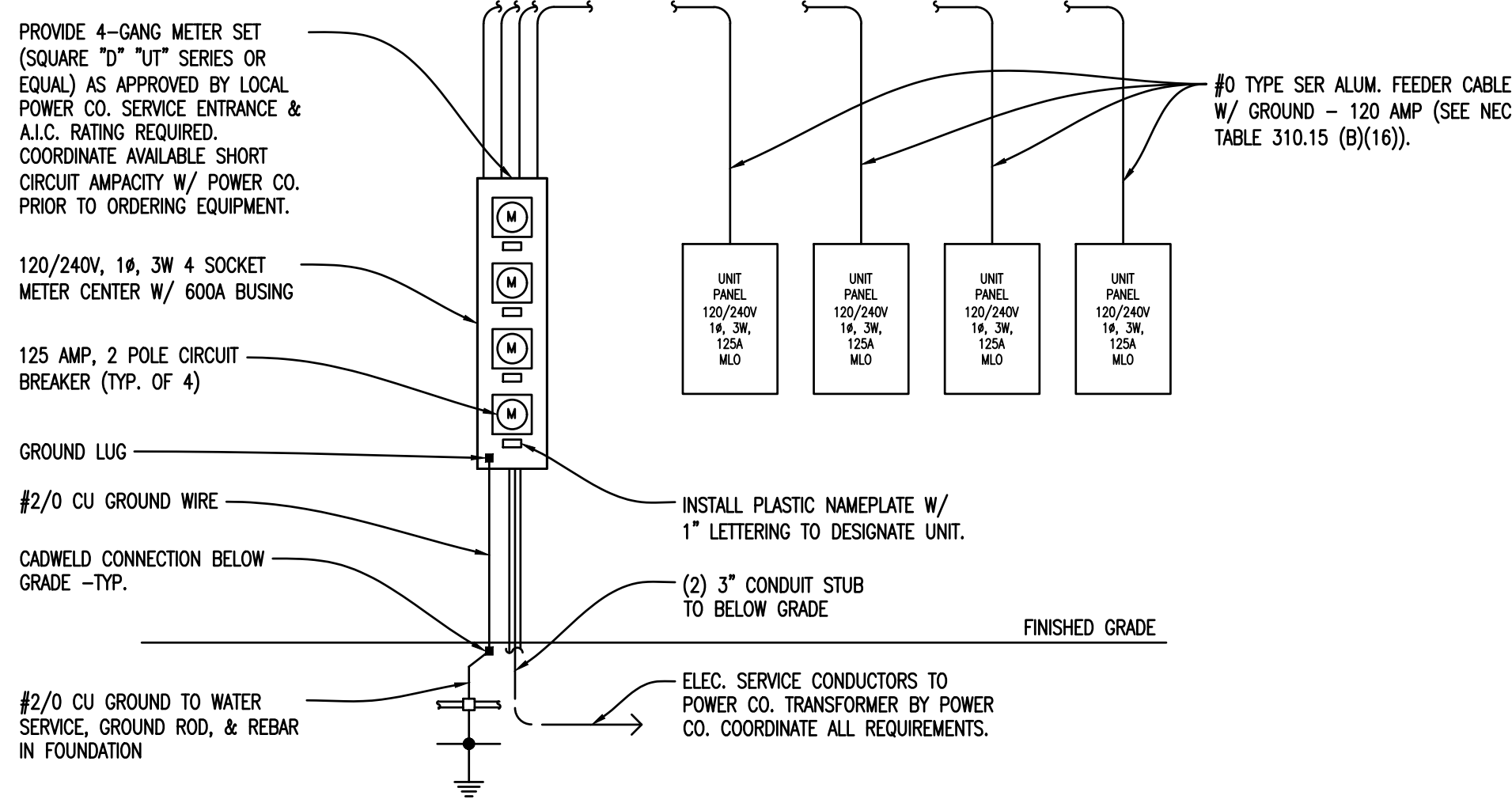
1/8" = 1'-0"



Gas Meter Set Detail



Water Service Detail



Electric Service Meter Center

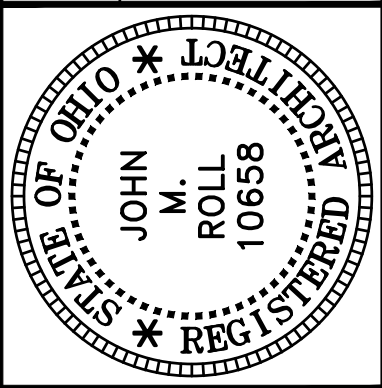
Utility Legend

- GAS SUPPLY LINE (LOCATED IN ATTIC)
- 4" BUILDING SEWER LINE
- WATER SERVICE (LOCATED BELOW SLAB MIN. 42" B.F.F.)

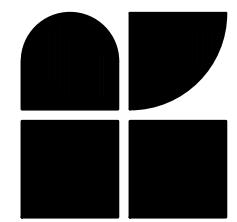
Utility Notes

- 1 1/2" WATER SERVICE.
- ELECTRIC SERVICE/METERS. COORDINATE EXACT LOCATION W/ ONSITE CONDITIONS & LOCAL UTILITY CO.
- TELEPHONE & CATV PEDESTALS. COORDINATE EXACT LOCATION W/ ONSITE CONDITIONS & LOCAL UTILITY CO.
- GAS METER SET. COORDINATE EXACT LOCATION W/ ONSITE CONDITIONS & LOCAL UTILITY CO. GAS PIPING INSTALLED DOWNSTREAM OF METER SHALL NOT EXTEND THROUGH ANY RESIDENTIAL UNIT OTHER THAN THE UNIT SERVED BY SUCH PIPING (2009 IFGC, SECTION 404.1).
- 1 1/4" GAS SERVICE.
- 6" SANITARY SERVICE. REFER TO CIVIL DRAWINGS FOR EXACT LOCATION & CONTINUATION.

DATE	DESCRIPTION
7-5-23	BUILDING PERMIT

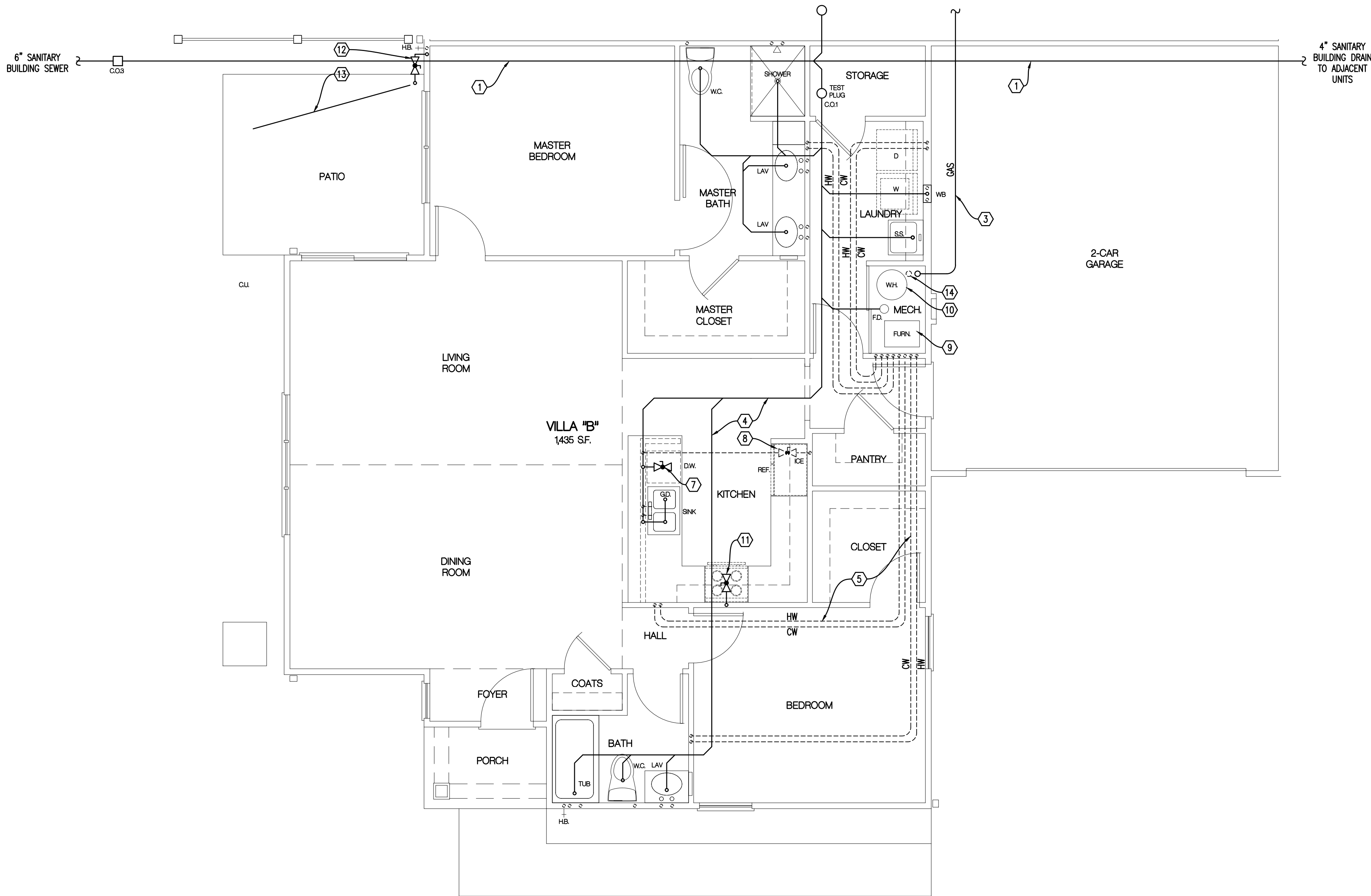


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PROJECT NO. 56133
PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE PLUMBING, MECHANICAL, ELECTRICAL
DWG. NO.

PME



PLUMBING PLAN - VILLA "B"
1/4" = 1'-0"

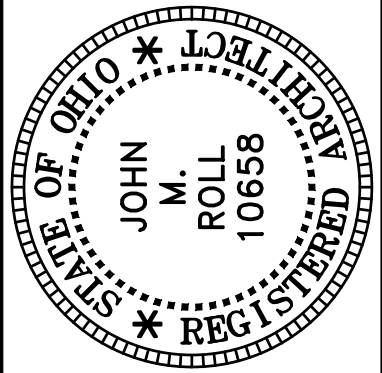
General Notes

- SANITARY BUILDING SERVICES SHALL BE SDR-35 AND AS APPROVED FOR USE BY LOCAL UTILITY.
- SANITARY DRAIN WASTE & VENT PIPING SHALL BE SCH 40 PVC SOLVENT WELD PIPE & FITTINGS. PIPING SHALL BE SLOPED AS FOLLOWS: 3" OR SMALLER 1/4" PER FOOT, 4" AND LARGER 1/8" PER FOOT.
- WATER SERVICE SUPPLY PIPING SHALL BE POLYETHYLENE TUBING OR TYPE "K" SOFT COPPER AND AS APPROVED FOR USE BY LOCAL UTILITY.
- PROVIDE 1 1/2" WATER SERVICE TO EACH BUILDING. PROVIDE 3/4" WATER SERVICE TO EACH UNIT. REFER TO OVERALL BUILDING PLANS & COORDINATE WITH LOCAL WATER UTILITY.
- PROVIDE WATTS LF7R BACKFLOW DEVICE ON WATER SERVICE TO EACH INDIVIDUAL UNIT.
- PROVIDE MINIMUM 1/2" WATER SUPPLY PIPE TO EACH PLUMBING FIXTURE. PIPING TO BE INSTALLED BELOW FLOOR SLAB (NO FITTINGS PERMITTED BELOW SLAB). WATER SUPPLY PIPING SHALL BE AS FOLLOWS; TYPE "K" SOFT COPPER TUBING (BELOW SLAB), TYPE "L" HARD COPPER TUBING (ABOVE SLAB), CPVC COILED PLASTIC TUBING (BELOW SLAB), CPVC RIGID PLASTIC TUBING (ABOVE SLAB).
- GAS SERVICE SUPPLY PIPING SHALL BE AS REQUIRED BY LOCAL GAS UTILITY.
- PROVIDE GAS METER & RISER ASSEMBLY FOR EACH UNIT PER LOCAL GAS UTILITY REQUIREMENTS.
- PROVIDE MINIMUM 1/2" GAS SUPPLY PIPE TO EACH DESIGNATED PIECE OF EQUIPMENT. PIPING TO BE INSTALLED IN VENTILATED ATTIC. GAS SUPPLY PIPING SHALL BE AS FOLLOWS: SCH 40 BLACK STEEL PIPE, CSST TUBING.
- PROVIDE GAS SUPPLY PIPE TO THE FOLLOWING EQUIPMENT: FURNACE, RANGE, FIRE PIT.
- ALL PIPING SYSTEMS SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS.
- ALL MATERIALS & INSTALLATION OF PLUMBING SYSTEMS SHALL COMPLY W/ STATE & LOCAL BUILDING CODE REQUIREMENTS.
- WATER HEATER SHALL BE 50 GAL. ELECTRIC W/ 4.5 KW INPUT. INSTALL CODE APPROVED, SELF CLOSING TEMPERATURE AND PRESSURE RELIEF VALVE AND DISCHARGE INDIRECTLY INTO HUB DRAIN. INSTALL HEAT TRAPS ON CW & HW SUPPLY PIPES. INSTALL THERMAL EXPANSION TANK ON CW SUPPLY PIPE TO WATER HEATER.
- WATER HEATER SHALL BE ADJUSTED TO DELIVER NO MORE THAN 120° F HW.
- SHOWER VALVES SHALL BE THERMOSTATIC/PRESSURE BALANCE TYPE MIXING VALVES W/ MAXIMUM WATER TEMPERATURE ADJUSTED TO DELIVER NO MORE THAN 110° F HW.
- EACH FIXTURE OR PIECE OF EQUIPMENT SHALL BE INSTALLED WITH INDIVIDUAL SHUT-OFF VALVES.
- SHOCK ARRESTORS SHALL BE INSTALLED ON WATER SUPPLY PIPING WHERE QUICK CLOSING VALVES ARE CONNECTED TO THE SYSTEM. (DISHWASHER & WASHING MACHINE)
- PROVIDE 1/2" CW SUPPLY PIPE WITH 1/4 TURN BALL VALVE PVC VALVE BOX FOR ICE MAKER.
- PROVIDE 1/2" HW SUPPLY PIPE WITH 1/4 TURN BALL VALVE FOR DISHWASHER. PROVIDE 5/8" DRAIN LINE FROM DISHWASHER TO GARBAGE DISPOSAL.
- INSTALL 1/3 HP GARBAGE DISPOSAL IN SINK COMPARTMENT CLOSEST TO DISHWASHER.
- PROVIDE 1/2" CW/HW SUPPLY PIPES WITH 1/4 TURN VALVES, 2" DRAIN LINE AND PVC BOX FOR WASHING MACHINE.
- NO WATER PIPING TO BE LOCATED IN EXTERIOR WALL. PIPE ROUGH-INS SHALL BE LOCATED IN BASE CABINET BELOW FIXTURE.
- INSTALL CLEANOUTS ON BUILDING SANITARY DRAINS AT MAXIMUM 100' O.C. AND CHANGES GREATER THAN 45°.
- INSTALL FLOOR DRAIN IN WATER HEATER CLOSET.
- PROVIDE TRAP PRIMER VALVE FOR ALL FLOOR DRAINS AND HUB DRAINS.
- REFER TO OVERALL BUILDING PLAN FOR GAS METER, ELECTRIC METER & CONDENSING UNIT LOCATIONS. MAINTAIN 3'-0" CLEARANCE BETWEEN METERS & CONDENSING UNITS.
- PENETRATIONS OF FLOOR-CEILING ASSEMBLIES AND WALL ASSEMBLIES REQUIRED TO HAVE A FIRERESISTANCE RATING MUST MAINTAIN THE INTEGRITY OF THE FIRERESISTANCE-RATED ASSEMBLY AND LIMIT THE SPREAD OF FIRE AND SMOKE. FIRE/SMOKE STOPPING MATERIAL SHALL BE U.L. APPROVED AND SHALL BE RATED FOR THE TYPE OF FIRERESISTANT RATED ASSEMBLY AND THE MATERIAL TYPE OF THE PENETRANT.
- PVC DRAIN, WASTE, AND VENT PIPING AND COPPER WATER PIPING PASSING THROUGH A STRUCTURAL MEMBER WITHIN 1 1/2" FROM THE NEAREST EDGE MUST BE PROTECTED BY A 1/16" STEEL PLATE TO PREVENT FASTENER PENETRATION.
- NO PIPING SHALL BE LOCATED DIRECTLY ABOVE ELECTRIC PANELS.

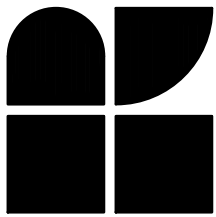
Plumbing Notes

- 4" SANITARY SEWER PIPE LOCATED BELOW FLOOR SLAB, SLOPE 1/8" PER FOOT.
- 1 1/2" WATER SUPPLY PIPING LOCATED BELOW FLOOR SLAB. INSTALL 48" BELOW GRADE (MIN.).
- 1/2" (2LB.) CSST GAS SUPPLY LINE FROM METER SET TO MANIFOLD. INSTALL IN VENTILATED ATTIC.
- SANITARY BRANCH PIPING TO BE LOCATED BELOW FLOOR SLAB, NO FITTINGS BELOW SLAB.
- HOT & COLD WATER PIPING TO BE LOCATED BELOW FLOOR SLAB, NO FITTINGS BELOW SLAB.
- GAS PIPING INSTALLED DOWNSTREAM OF METER SHALL NOT EXTEND THROUGH ANY RESIDENTIAL UNIT OTHER THAN THE UNIT SERVED BY SUCH PIPING (2009 IFGC, SECTION 404.1).
- DISHWASHER: 1/2" VALVED H.W. W/ FLEX HOSE TO D.W., 5/8" FLEX DRAIN LINE FROM D.W. TO G.D.
- ICE MAKER VALVE BOX: 1/2" VALVED C.W. W/ 3/8" FLEX HOSE TO ICE MAKER.
- FURNACE: 3/4" CSST WARD FLEX GAS SUPPLY PIPE TO FURNACE. INSTALL GAS VALVE AT CONNECTION TO EQUIPMENT.
- WATER HEATER: ELECTRIC.
- RANGE: 1/2" CSST WARD FLEX GAS SUPPLY PIPE TO RANGE. INSTALL GAS VALVE AT CONNECTION TO EQUIPMENT.
- FIRE PIT: 1/2" CSST WARD FLEX GAS SUPPLY PIPE TO FIRE PIT. INSTALL BRASS SHUT-OFF VALVE & KEY Ø 18" A.F.F.
- 1/2" TYPE "K" FLEX COPPER GAS SUPPLY PIPE. INSTALL IN PVC CONDUIT 12"-18" BELOW GRADE, COORDINATE WITH G.C.
- 3/4" VALVED CW EACH UNIT.

DATE	DESCRIPTION
7-5-23	BUILDING PERMIT



ROLL & ASSOCIATES, INC.
ARCHITECTS & PLANNERS
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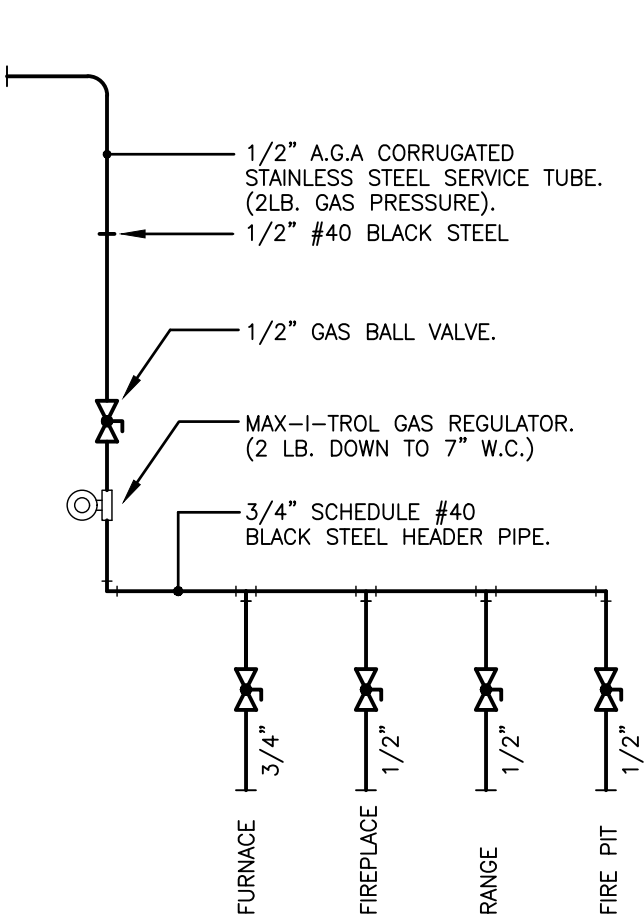


PROJECT NO. 56133
PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE PLUMBING PLAN - VILLA "B"
DWG. NO.

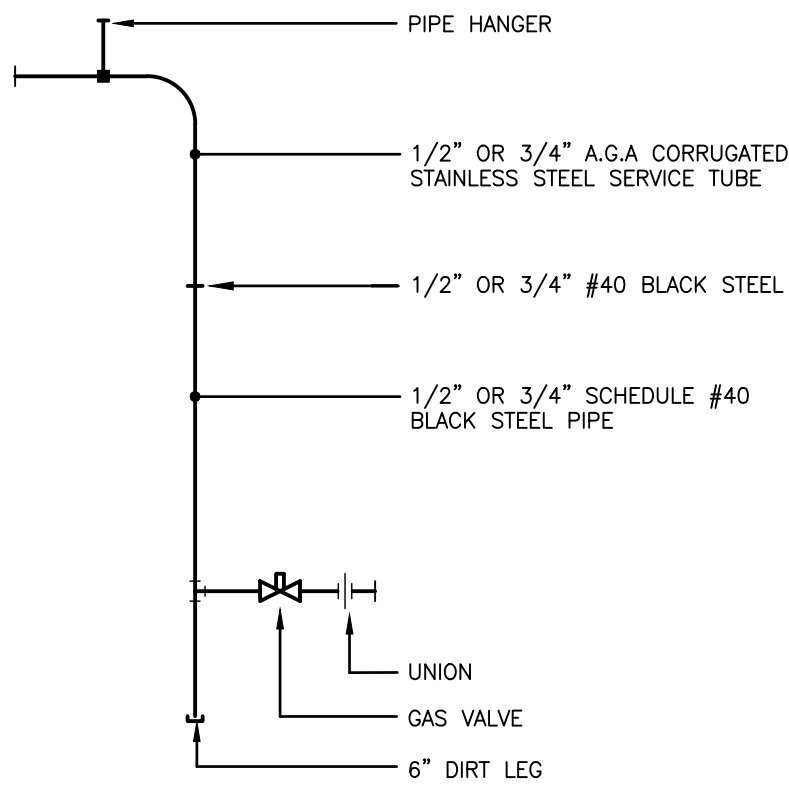
P-1

FIXTURE & DRAIN SCHEDULE

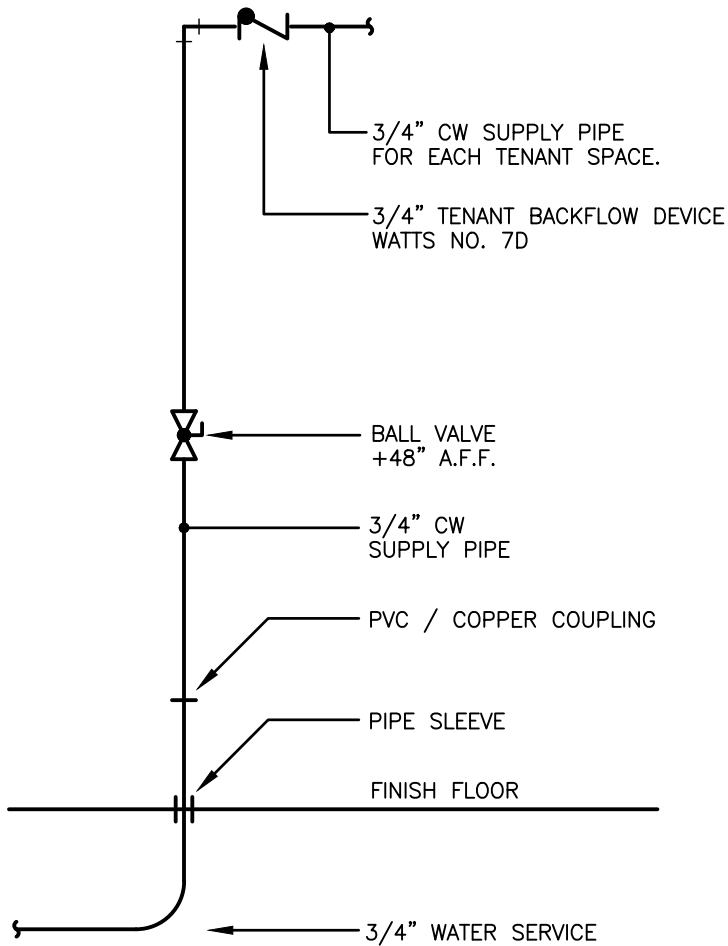
ITEM	DESCRIPTION	PIPING				ACCESSORIES
		WASTE	VENT	HOT	COLD	
WC	WATER CLOSET	3"	1 1/2"		1/2"	SEAT: BEMIS #60
LAV	LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	
TUB	BATH TUB	1 1/2"	1 1/2"	1/2"	1/2"	LEFT OR RIGHT HAND OUTLET --SEE PLAN
SH	SHOWER	2"	1 1/2"	1/2"	1/2"	MOUNT HEAD @ 92" A.F.F.
SINK	SINK	1 1/2"	1 1/2"	1/2"	1/2"	
G.D.	GARBAGE DISPOSAL	1 1/2"				
ICE	ICE MAKER BOX				1/2"	
WB	WASHER BOX	2"	1 1/2"	1/2"	1/2"	
HB	FROST FREE HOSE BIBB				3/4"	INSTALL IN EA. GARAGE @ 18" A.F.F.
F.D.	FLOOR DRAIN	3"				FURNISH W/ TRAP PRIMER
C.O.1	CLEAN OUT	4"				NICKALOY ACCESS COVER
C.O.2	CLEAN OUT	4"				STAINLESS STEEL ACCESS COVER
C.O.3	CLEAN OUT	4"				SEE BUILDING PLAN
S.S.	SERVICE SINK	1 1/2"	1 1/2"	1/2"	1/2"	



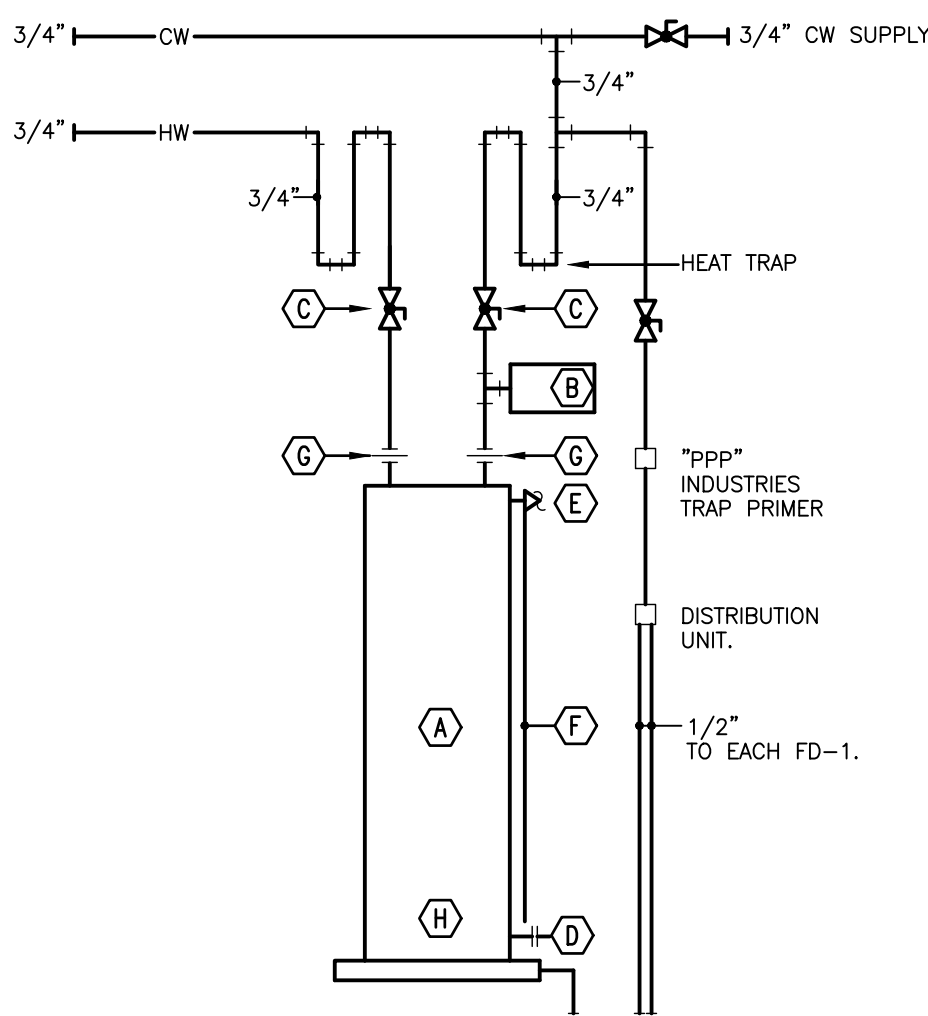
Gas Header Pipe Detail



Gas Pipe Connection Detail



Tenant Water Service Riser Detail



Water Heater Detail

General Notes

- REFER TO SCOPE OF WORK LETTER FOR PLUMBING SPECIFICATIONS AND RELATED WORK ITEMS.
- PRESSURE TEST ALL PIPING SYSTEMS:
 - SANITARY AND VENT PER OHIO PLUMBING CODE.
 - BUILDING WATER: 125 PSI WATER FOR 24 HOURS, NO DROP.
 - BUILDING GAS: 50 PSI NITROGEN FOR 24 HOURS, NO DROP.
- SANITARY SERVICE PIPE SHALL BE AS REQUIRED BY LOCAL UTILITY.
- WATER SERVICE PIPE SHALL BE AS REQUIRED BY LOCAL UTILITY.
- GAS SERVICE PIPE SHALL BE AS REQUIRED BY LOCAL UTILITY.
- SANITARY WASTE AND VENT PIPING SHALL BE SCH 40 (PVC) AND AS APPROVED FOR USE BY LOCAL CODE.
- WATER DISTRIBUTION PIPING SHALL BE SCH 40 CPVC PIPING WITH SOLVENT WELD JOINTS. THREADED CONNECTION TO BE BRASS.
- GAS DISTRIBUTION PIPING SHALL BE CODE APPROVED "CSSI" PLASTIC COATED FLEXIBLE STAINLESS STEEL TUBING WITH THREADED FITTINGS.
- GAS PIPE ROUGH-INS OF EQUIPMENT SHALL BE SCH 40 BLACK STEEL PIPING WITH THREADED FITTINGS.
- PROVIDE PIPE HANGERS FOR ALL PIPING SYSTEMS INSTALLED. SUPPORT AT INTERVALS NOT TO EXCEED 4'-0". SUPPORT ALL PIPING AT FITTINGS, VALVES, AND UNIONS. LOCATE ALL SUPPORTS TO ALLOW FOR PROPER PITCH AND EXPANSION OF PIPES.
- PITCH 3" AND SMALLER SANITARY PIPE 1/4" PER FOOT. PITCH 4" AND LARGER SANITARY PIPE 1/8" PER FOOT. PITCH VENT PIPING FOR DRAINAGE.
- PROVIDE BLOCKING FOR ALL PLUMBING ROUGH-IN.
- ALL PIPING FOR PLUMBING FIXTURE ROUGH-INS TO BE LOCATED IN WALL (U.N.O.).
- CHROME ESCUTCHEON PLATE SHALL BE PROVIDED WHERE PIPE ROUGH-IN PENETRATES WALL.
- PROVIDE CHROME PLATED BRASS SHUT-OFF VALVE WITH CHROME SUPPLY PIPE AT EACH WATER CLOSET, LAVATORY, AND SINK.
- BATHTUB AND SHOWER VALVES SHALL BE EQUIPPED WITH INTEGRAL SHUT-OFF VALVES.
- PROVIDE BRASS SHUT-OFF VALVES AT WATER HEATER, DISHWASHER, ICE MAKER WATER BOX, AND WASHER BOX.

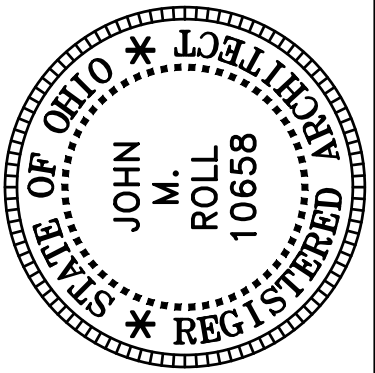
Plumbing Legend

— W —	WATER SERVICE PIPING
— CW —	COLD WATER SUPPLY PIPING
— HW —	HOT WATER SUPPLY PIPING
— SAN —	SANITARY PIPING
- - - - -	VENT PIPING
— G —	LOW PRESSURE GAS PIPING
— X —	GATE VALVE (LINE SIZE)
— B —	BALL VALVE (LINE SIZE)
— C —	CHECK VALVE (LINE SIZE)
— P —	LUBRICATED PLUG VALVE (LINE SIZE)
— T —	THERMOMETER
⊙ FD	FLOOR DRAIN
⊙ CO	CLEAN OUT
— CO	CLEAN OUT PLUG
⊠ CO	OUTSIDE CLEANOUT
— B —	HOSE BIBB (INSTALL 18" A.F.F.)
— U —	UNION
— A —	SHOCK ARRESTOR
A.A.V.	AUTOMATIC AIR VENT
V.T.R.	VENT THRU ROOF

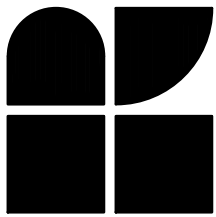
Detail Notes

- GAS WATER HEATER: A.O. SMITH #ENT-50, 50 GALLON STORAGE, 21 GPH @ 90F RISE, 4.5 KW INPUT.
- EXPANSION TANK.
- BALL VALVE.
- DRAIN VALVE.
- TEMPERATURE AND PRESSURE RELIEF VALVE.
- 3/4" DRAIN PIPE, EXTEND TO HUB DRAIN.
- UNION.
- PROVIDE 24"x24"x2" GALVANIZED SHEET METAL DRIP PAN BELOW WATER HEATER, EXTEND 3/4" DRAIN LINE TO FLOOR DRAIN.

DATE	DESCRIPTION
7-5-23	BUILDING PERMIT



ROLL & ASSOCIATES, INC.
ARCHITECTS & PLANNERS
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PROJECT NO. 56133
PROJECT TITLE BUILDING 4 VILLAS @ WEST MILTON
DWG. TITLE PLUMBING DETAILS
DWG. NO. P-2



SYMBOL 	FACE SIZE	NECK SIZE	LIMA (OR EQUAL) MODEL NO.	MAX CFM	MOUNTING SURFACE	AIR PATTERN	NOTES
A	12"x6"	10"x4"	10V	200	GYP. BD.	2-WAY	1,2,3,4
B	32"x8"	30"x6"	19H	260	GYP. BD.	RETURN	1,3,7
C	32"x12"	30"x10"	19H	560	GYP. BD.	RETURN	1,3,5
D	16"x8"	14"x6"	19H	130	GYP. BD.	RETURN	1,3,6
1)	FINISH TO BE STANDARD OFF-WHITE.			5)	LOW SIDEWALL DUCT OPENING @ 8" AFF. CONNECT TO TWO 14-1/2" X 5-1/2" R.A. RISERS.		
2)	FURNISH NECK MOUNTED OPP. BLADE DAMPER.			6)	LOW SIDEWALL DUCT OPENING @ 8" AFF. CONNECT TO ONE 14-1/2" X 3-1/2" R.A. RISERS.		
3)	FRAME TO BE COMPATIBLE WITH PLASTER, DRYWALL, OR OTHER SURFACE MOUNTINGS.			7)	LOW SIDEWALL DUCT OPENING @ 8" AFF. CONNECT TO TWO 14-1/2" X 3-1/2" R.A. RISERS.		
4)	CEILING MOUNTED.						

1. HVAC WORK SHALL BE LAID OUT WITH DUE CONSIDERATION FOR THE WORK OF OTHER TRADES. ANY CONFLICTS WHICH OCCUR DUE TO THE LACK OF COORDINATION BETWEEN HVAC CONTRACTORS AND THE OTHER TRADES ("CONTRACTORS") SHALL BE CORRECTED BY THE HVAC CONTRACTOR WITH NO ADDITIONAL COST TO THE OWNER.
2. INSULATE ALL DUCTWORK IN ATTIC WITH FIBERGLASS DUCT WRAP INSULATION, R-6 MINIMUM.
3. DUCTWORK SHALL MEET THE REQUIREMENTS OF SMACNA, NFPA 90A, ORC MECHANICAL CODE, ARTICLE 3. RECTANGULAR DUCT SHALL BE CONSTRUCTED AND REINFORCED PER SMACNA DUCT CONSTRUCTION STANDARDS, SECTION 1. ALL DUCTWORK SHALL BE SEAMLESS CONFORMANCE WITH SMACNA. COORDINATE ALL EQUIPMENT AND DUCT RUNS WITH STRUCTURE, LIFTS, CEILING, CONDUIT, PIPING, AND OTHER EQUIPMENT.
4. FLEXIBLE DUCTS SHALL BE 4" THRU 8" SUPPLY AIR BRANCH DUCTS AND 8" THRU 16" RETURN AIR DUCTS ONLY, AND COMPLY WITH NFPA REQUIREMENTS, PAMPHLET 90A AND SHALL BE UL-181 LISTED WITH FLAME SPREAD RATING OF 25 OR LESS AND SMOKE-DEVELOPING RATING NOT EXCEEDING 10. FLEXIBLE DUCT SHALL BE RATED FOR MINIMUM 10" W.G. INTERNAL WORKING PRESSURE, FOR ALL DUCT SIZES.
5. BALANCING DAMPERS SHALL BE GALVANIZED STEEL DAMPERS WITH LOOKING QUADRANT OPERATORS.

1. 4" THRU METAL DRYER VENT DUCT 12" A.F.F. (MIN. 26GA) RIGID WALL TO WALL CAP W/ BACKDRAFT DAMPER.
2. PROVIDE EXHAUST FAN W/ BACK-DRAFT DAMPER W/ CAPACITY OF 200 CFM, EXTEND 8" DIA. EXHAUST DUCT UP TO THE ROOF, AND INTERLOCK WITH GARAGE LIGHT SWITCH. SHOULD BE AS MANUFACTURED BY BROAN, MODEL "L200" W/ ROOF CAP, OR APPROVED EQUAL.
3. RANGE HOOD SHALL EXHAUST 100 CFM, MINIMUM, IN ACCORDANCE W/ OBC-MECHANICAL CODE, SECTION 403, AND TABLE 403.3.
4. H.C. TO PROVIDE PVC EQUIPMENT PAD FOR CONDENSING UNIT.
5. 4" INSULATED OUTSIDE AIR DUCT UP TO ROOF GABLE, 64 CFM.
6. 24"x8" RETURN AIR DUCT DROP.

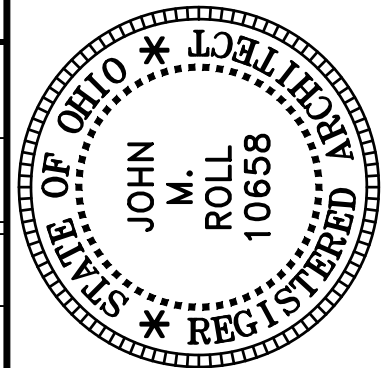
DUCTWORK (INSIDE DIMENSIONS SHOWN)

MANUAL BALANCING DAMPER

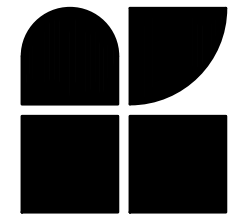
SUPPLY AIR

RETURN AIR/ EXHAUST

THERMOSTAT



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**Stillwater
Crossings**
Your Hometown Lifestyle

PROJECT NO.
56133

PROJECT TITLE
BUILDING 4
VILLAS @
WEST MILTON

DWG. TITLE
HVAC
PLAN
- VILLA "B"

DWG. NO.

H-1

UNIT "VILLA "B"" ELECTRIC LOAD CALCULATIONS

FIXED LOADS				
	RANGE	=	8,000	VA
	GARBAGE DISPOSAL	=	750	VA
	REFRIGERATOR	=	750	VA
	MICROWAVE/HOOD	=	1,500	VA
	KITCHEN OUTLETS	=	3,000	VA
	DISHWASHER	=	1,200	VA
	LAUNDRY OUTLET	=	1,500	VA
	DRYER	=	5,000	VA
	FURNACE	=	626	VA
	WATER HEATER	=	4,500	VA
	FIXED LOAD TOTAL	=	26,826	VA
LIGHTING				
	3 WATTS/SQ. FT. X 1,399	SQ. FT.	=	4,197 VA
	FIXED LOADS + LIGHTING	=	31,023	VA
	FIRST 10KVA @ 100%	=	10,000	VA
	REMAINDER @ 40% 21,023 X 0.4	=	8,409	VA
	A/C LOAD @ 100%	=	2,650	VA
	HEATING LOAD @ 65% 0 X 0.65	=	0	VA
	LARGEST OF A/C OR HEATING LOAD	=	2,650	VA
	TOTAL LOAD	=	21,059	VA
MINIMUM SERVICE ENTRANCE SIZE				
	21,059 VA / 240 VOLTS	=	87.7	AMPS

PANEL SCHEDULE

120/240 VOLT, 125 AMP, 10,000 AC, 1 PHASE, 3 WIRE, 60 HZ, SURFACE MOUNTED													
LOAD DESCRIPTION	LINE	WIRE	OXT KW	BREAKER		OXT NO.	BREAKER		OXT KW	WIRE	LINE	DESCRIPTION	
				AMP	POLE		AMP	POLE					
CONDENSING UNIT	1	10	1.5	25	2	1	2	1	15	0.7	12	1	GARBAGE DISPOSAL
	2	10	1.5			3	4	1	20	0.7	12	2	REFRIGERATOR
DRYER	1	10	2.5	30	2	5	6	1	20	1.5	12	1	DISHWASHER
	2	10	2.5			7	8	1	20	1.5	12	2	MICROWAVE & HOOD
RANGE	1	6	4.0	50	2	9	10	1	20	1.5	12	1	KITCHEN COUNTER
	2	6	4.0			11	12	1	20	1.5	12	2	KITCHEN COUNTER
WATER HEATER	1	10	2.25	30	2	13	14	1	20	1.5	12	1	MASTER BATH
	2	10	2.25			15	16	1	20	1.5	12	2	BATH
FURNACE	1	12	0.7	15	1	17	18	1	15	1.5	12	1	BATHROOM LIGHTS & FAN
WASHER	2	12	1.5	20	1	19	20	1	15	1.5	12	2	DINING LIGHTS & RECEPTACLES
GARAGE LIGHTS & RECEPTACLES	1	12	1.5	20	1	21	22	1	15	1.5	12	1	LIVING LIGHTS & RECEPTACLES
GARAGE DOOR OPENER	2	12	0.1	20	1	23	24	1	15	0.9	12	2	BEDROOM LIGHTS & RECEPTACLES
TELEPHONE BOX	1	12	0.1	20	1	25	26	1	15	1.2	12	1	MASTER LIGHTS & RECEPTACLES
SPARE	2					27	28					2	SPARE
SPARE						29	30					1	SPARE

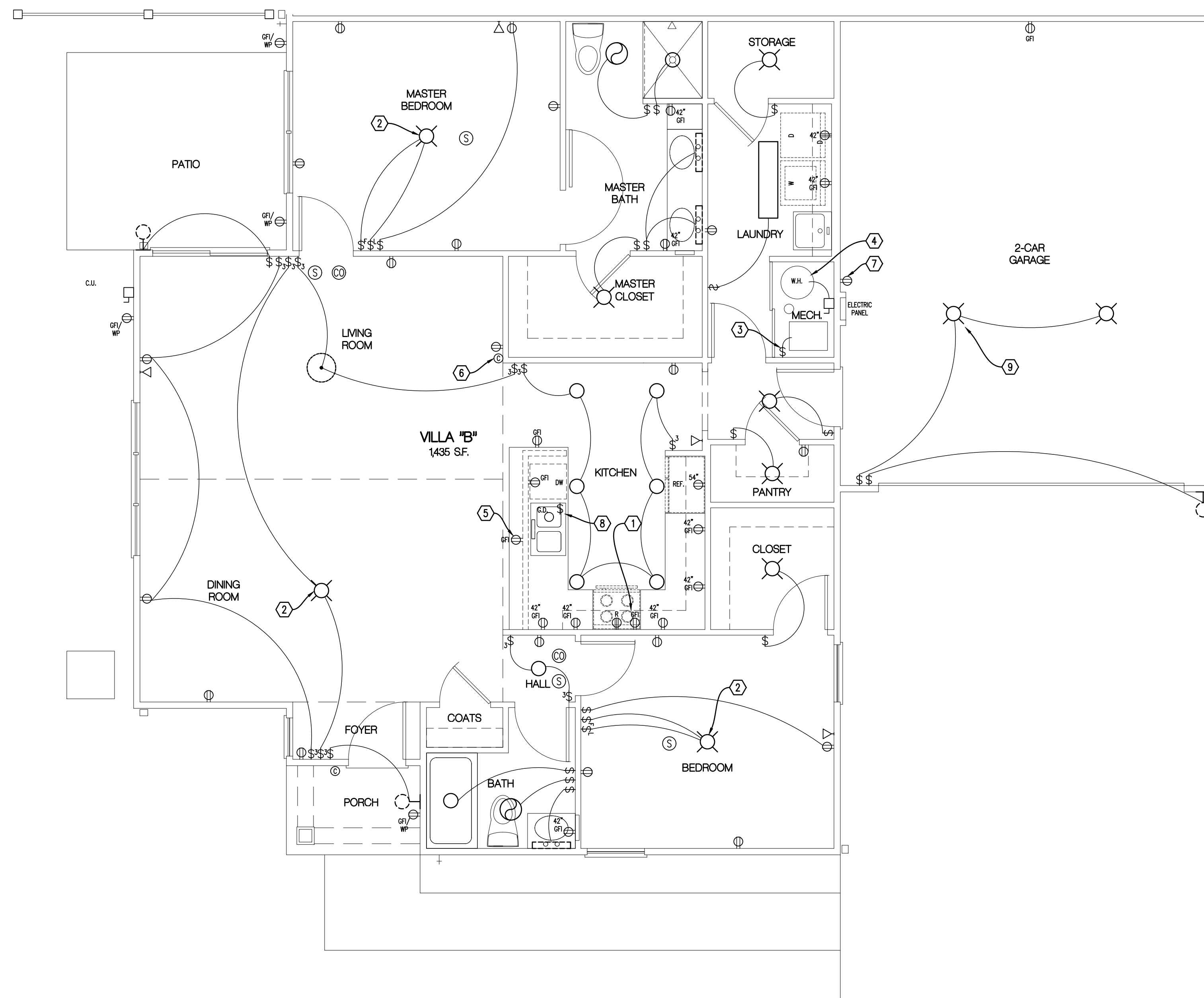
NOTE: USE "ARC FAULT" RATED BREAKERS FOR ALL RECEPTACLE CIRCUITS

Legend

- | | |
|---|--|
| ● | PENDANT-MOUNTED LIGHT FIXTURE |
| ○ | RECESSED LIGHT FIXTURE |
|  X | SURFACE-MOUNTED LIGHT FIXTURE |
| ⊖ | EXTERIOR WALL-MOUNTED LIGHT FIXTURE |
|  | WALL-MOUNTED VANITY LIGHT FIXTURE |
| ⊖ | EXHAUST FAN |
| ⊙ | MULTIPLE STATION SMOKE DETECTOR W/
BATTERY BACK-UP |
| ⊙ | 120V-20A DUPLEX CONVENIENCE OUTLET
⊙ 16" A.F.F. (U.N.O.) |
| ⊙
GFI | 120V-20A DUPLEX "GFI" CONVENIENCE
OUTLET ⊙ 16" A.F.F. (U.N.O.) |
| ⊙
GFI/WP | 120V-20A DUPLEX "GFI" CONVENIENCE
OUTLET ⊙ 16" A.F.F. (U.N.O.) W/
WEATHERPROOF COVER |
| ⊙ _D | 240V-30A DRYER OUTLET ⊙ 30" A.F.F. |
| ⊙ _R | 240V-50A RANGE OUTLET |
| \$ | GENERAL PURPOSE 1-POLE SWITCH ⊙
48" A.F.F. |
| \$ ₃ | GENERAL PURPOSE 3-POLE SWITCH ⊙
48" A.F.F. |
| ▽ | DATA/TELEPHONE OUTLET ⊙ 16" A.F.F. |
| ⊙ _{G.D.} | GARBAGE DISPOSAL (UNDER SINK) |
| ⊙ | DOOR CHIME |
| ⊙(CO) | CARBON-MONOXIDE ALARM |

Electrical Notes

1. MICROWAVE & RANGE HOOD EXHAUST FAN RECEPTABLES IN CABINET ABOVE RANGE.
2. JUNCTION BOX (CAPABLE OF SUPPORTING 35 lbs.) FOR CEILING FAN/LIGHT & (3) WIRES FOR WALL FAN/LIGHT CONTROLS.
3. FURNISH (1) 20A, 1 POLE DISCONNECT SWITCH FOR FURNACE. E.C. TO MAKE FINAL CONNECTIONS.
4. ELECTRIC WATER HEATER RATED 4500W AT 240V. PROVIDE 30A-2P SERVICE DISCONNECT ON WALL, 30A BRANCH CIRCUIT TO PANEL, AND 30A BRANCH CIRCUIT CONNECTION TO WATER HEATER.
5. ISLAND RECEPTACLE. MOUNT OUTLET IN KNEE WALL @ 6" BELOW COUNTERTOP.
6. MOUNT DOOR CHIME IN CORNER, WIRE TO DOOR PUSHBUTTON, PAINT CHIME TO MATCH WALLS.
7. OUTLET FOR TELEPHONE CENTRAL WIRING BOX.
8. INSTALL SWITCH FOR GARBAGE DISPOSAL UNDER SINK IN CABINET.
9. INSTALL CIRCUIT & CONTROL TO GARAGE EXHAUST FAN.



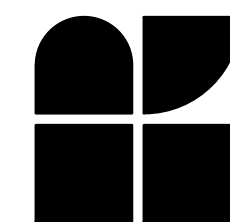
ELECTRICAL PLAN - VILLA "B"

$$\underline{\underline{1/4'' = 1'-0''}}$$

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E-1