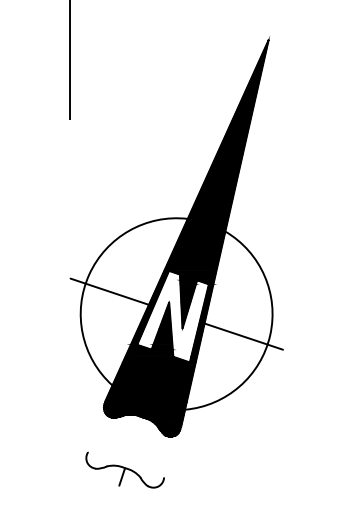


PALM Ave

E 14th St



**AZTEC DRAFTING & DESIGN**  
 DESIGNER: LEONEL SOLIS  
 EMAIL: LEONEL28@GMAIL.COM  
 PHONE: 619-414-8506



SHEET INDEX	
Sheet No.	SHEET NAME
SP-1	SITE PLAN
A1	EXISTING FLOOR PLAN
A2	NEW FLOOR PLAN
A3	NEW ADU FLOOR PLAN
A4	NEW ELECTRICAL PLAN
A5	NEW ELEVATIONS
A6	NEW ELEVATIONS
A7	ROOF PLAN / TRUSS LAYOUT
A8	SECTION VIEW
A9	UTILITY LAYOUT PLAN
S1	FOUNDATION PLAN
S2	ROOF FRAMING PLAN
CS-1	MINIMUM CONSTRUCTION SPECIFICATIONS
T-24	TITLE 24 ENERGY CONSERVATION

**CODE COMPLIANCE**

PROJECT DESIGNED BASED ON THE FOLLOWING CODES:  
 2019 CALIFORNIA ELECTRICAL CODE (CEC)  
 2019 CALIFORNIA MECHANICAL CODE (CMC)  
 2019 CALIFORNIA PLUMBING CODE (CPC)  
 2019 CALIFORNIA FIRE CODE (CFC)  
 2019 CALIFORNIA BUILDING CODE (CBC)  
 2019 CALIFORNIA ENERGY CODE  
 2017 NATIONAL ELECTRICAL CODE (NEC)  
 2019 CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN)  
 AND ALL CITY OF NATIONAL CITY AMENDMENTS.


SHEET INDEX	
SPECIFY AS INDICATED IN CF1R FORM (TITLE 24):	
•	
•	
•	

SHEET INDEX	
SPECIFY AS INDICATED IN CF1R FORM (TITLE 24):	
•	DUCT SEALING ( Y or N )
•	REFRIGERANT CHARGE ( Y or N )
•	COOLING SYSTEM AIRFLOW ( Y or N )
•	COOLING SYSTEM UNIT FAN EFFICACY ( Y or N )
•	COOLING SYSTEM SEER AND/OR EER ABOVE MIN. ( Y or N )
•	WHOLE-BUILDING VENTILATION AIRFLOW ( Y or N )
•	BUILDING ENVELOPE AIR LEAKAGE ( Y or N )
•	QUALITY INSULATION INSTALLATION ( Y or N )
•	OTHER (SPECIFY BELOW)



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 SPRING VALLEY, CA 91977  
 CELL: 619-414-8506

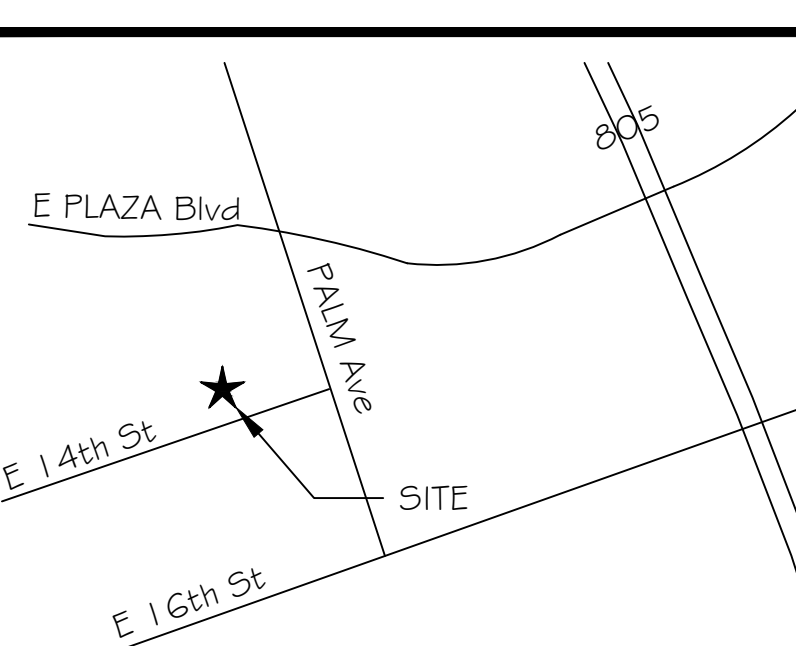
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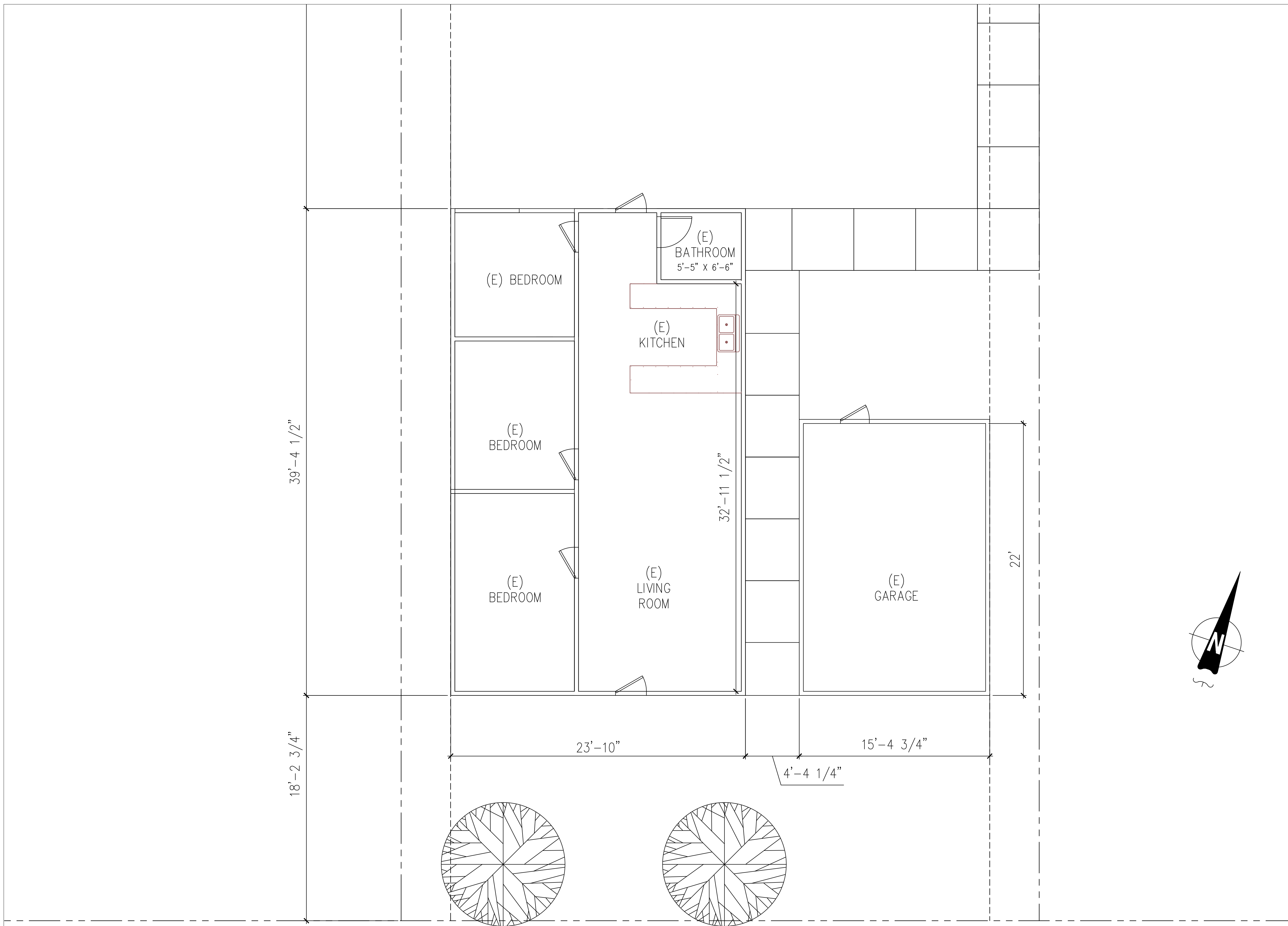
**JUAN MANUEL DIARTE**  
 DETACH ADDITIONAL DWELLING UNIT  
 1523 E 14th St, NATIONAL CITY CA 91950  
 APN: 557-342-09-00  
 UTILITY: SDG&E  
 AJH: NATIONAL CITY

**COVER SHEET & SITE PLAN**

**1 SITE PLAN**  
 1"=10'

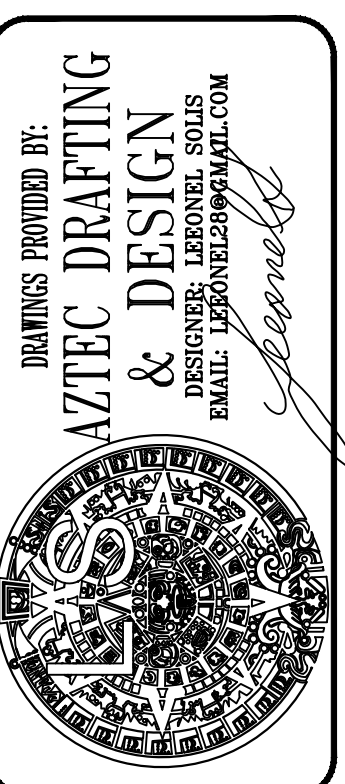
VICINITY MAP	OWNER INFORMATION	CONTACT INFORMATION	PARCEL INFORMATION	PROJECT SCOPE	PERVIOUS AREA INFORMATION	IMPERVIOUS AREA INFORMATION																																													
	NAME: JUAN MANUEL DIARTE ADDRESS: 1523 E 14th St, NATIONAL CITY, 91950 PHONE: 1-619-773-3727 EMAIL: VER01983@HOTMAIL.COM	NAME: JUAN MANUEL DIARTE ADDRESS: 1523 E 14th St, NATIONAL CITY, 91950 PHONE: 1-619-773-3727 EMAIL: VER01983@HOTMAIL.COM	APN: 557-342-09-00 EXISTING LOT AREA: 6,859 sqft EXISTING TENANT AREA: 1,096 sqft ZONING: RS2 BUILDING TYPE: V OCCUPANCY GROUP: R3 CONSTRUCTION TYPE: -	NEW 498 SF DETACHED ACCESSORY DWELLING UNIT NEW 152 SF BEDROOM & BATHROOM TO EXISTING HOME	<table border="1"> <thead> <tr> <th colspan="5">PERVIOUS SURFACE AREA TABLE</th> </tr> <tr> <th>SITE ID</th> <th>PERVIOUS ITEM</th> <th>DIMENSIONS</th> <th>AREA (sf)</th> <th>NOTES</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>PERVIOUS ELEMENT MANUFACTURER: _____            PERVIOUS ELEMENT SLOPE AND DIRECTION OF SLOPE: _____            MAINTENANCE PROGRAM: _____            PERVIOUS ELEMENT CROSS SECTION LOCATED IN SHEET: _____            CONSTRUCTED PERVIOUS SURFACES SHALL NOT BE SEALED</p>	PERVIOUS SURFACE AREA TABLE					SITE ID	PERVIOUS ITEM	DIMENSIONS	AREA (sf)	NOTES						<table border="1"> <thead> <tr> <th colspan="5">IMPERVIOUS SURFACE AREA TABLE</th> </tr> <tr> <th>SITE ID</th> <th>IMPERVIOUS ITEM</th> <th>DIMENSIONS</th> <th>NEW OR REPLACED AREA (sf)</th> <th>EXISTING AREA (sf)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>ADU + OVERHANGS</td> <td>29'-7" x 21'-9"</td> <td>643 SF</td> <td></td> </tr> <tr> <td>2</td> <td>BEDROOM</td> <td>12'-8" x 12'-0"</td> <td>152 SF</td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	IMPERVIOUS SURFACE AREA TABLE					SITE ID	IMPERVIOUS ITEM	DIMENSIONS	NEW OR REPLACED AREA (sf)	EXISTING AREA (sf)	1	ADU + OVERHANGS	29'-7" x 21'-9"	643 SF		2	BEDROOM	12'-8" x 12'-0"	152 SF		3					4				
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REVISION	
NO.	DESCRIPTION
0	02/14/22
PROJECT NO. P013	
SHEET NO. SP-1	



**FLOOR PLAN NOTES**

- EXTERIOR WALLS WITHIN 3 FEET OF PROPERTY LINE (SPRINKLERS) OR 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS) REQUIRE 1-HOUR FIRE RATING FOR EXPOSURE TO BOTH SIDES
- PROJECTIONS:
  - PROHIBITED WITHIN 2 FEET OF PROPERTY LINE
  - 1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 3FT OF PROPERTY LINE (SPRINKLERS)
  - 1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 5FT OF PROPERTY LINE (WITHOUT SPRINKLERS)
- OPENINGS:
  - PROHIBITED WITHIN 3FT OF PROPERTY LINE
  - MAXIMUM 25% OF WALL AREA WITHIN 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS)
- PENETRATIONS:
  - 1-HOUR FIRE-RATED PENETRATIONS OF WALLS WITHIN 3FT OF PROPERTY LINE (SPRINKLERS)
  - 1-HOUR FIRE-RATED PENETRATIONS OF WALLS WITHIN 5FT OF PROPERTY LINE (WITHOUT SPRINKLERS)
- CONCRETE LANDING WITH MIN 36" DEPTH AND A MAXIMUM OF 1-1/2" LOWER THAN TOP OF DOOR THRESHOLD

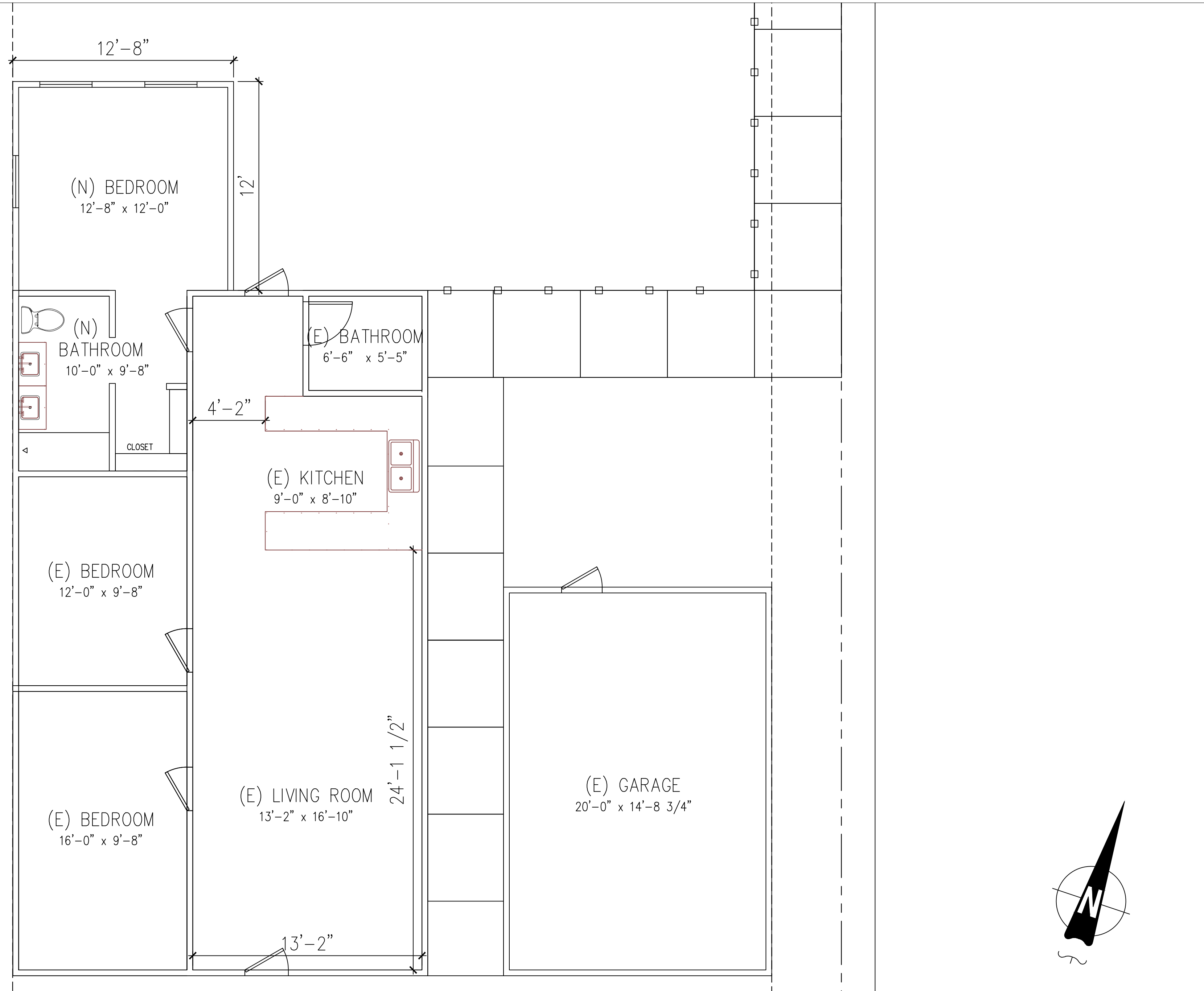


**JUAN MANUEL DIARTE**  
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**FLOOR PLAN**

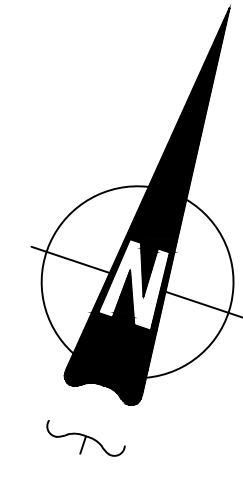
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0	-	02/14/22
PROJECT NO. P013		
SHEET NO. A-1		

**EXISTING FLOOR PLAN**  
 1/4" = 1'-0"



**FLOOR PLAN NOTES**

- EXTERIOR WALLS WITHIN 3 FEET OF PROPERTY LINE (SPRINKLERS) OR 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS) REQUIRE 1-HOUR FIRE RATING FOR EXPOSURE TO BOTH SIDES
- PROJECTIONS:
  - PROHIBITED WITHIN 2 FEET OF PROPERTY LINE
  - 1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 3FT OF PROPERTY LINE (SPRINKLERS)
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**NEW FLOOR PLAN**  
1/4" = 1'-0"

**AZTEC DRAFTING & DESIGN**  
9119 JAMACHA RD, SUITE 115  
SPRING VALLEY, CA 91977  
CELL: 619-414-8508

DRAWINGS PROVIDED BY:  
**AZTEC DRAFTING & DESIGN**  
DESIGNED BY: JUAN MANUEL DIARTE  
EMAIL: JDIARTE@AZTECDD.COM

**JUAN MANUEL DIARTE**  
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**FLOOR PLAN**

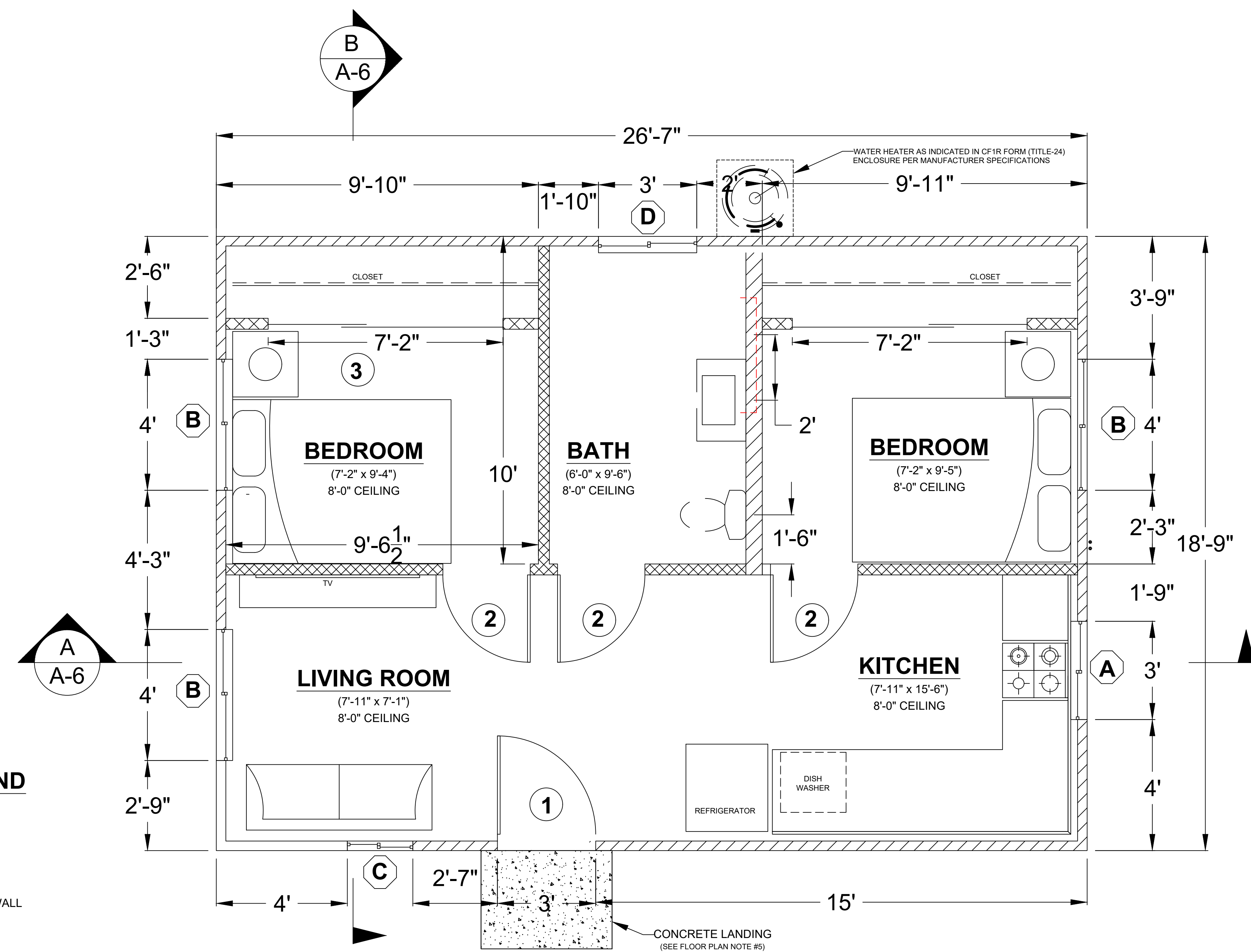
REVISION		
0	-	02/14/22
PROJECT NO. P013		
SHEET NO. A-2		

**FLOOR PLAN NOTES**

- EXTERIOR WALLS WITHIN 3 FEET OF PROPERTY LINE (SPRINKLERS) OR 5 FEET OF PROPERTY LINE (WITHOUT SPRINKLERS) REQUIRE 1-HOUR FIRE RATING FOR EXPOSURE TO BOTH SIDES
- PROJECTIONS:
  - PROHIBITED WITHIN 2 FEET OF PROPERTY LINE
  - 1-HOUR FIRE RATING ON THE UNDERSIDE WITHIN 3FT OF PROPERTY LINE (SPRINKLERS)
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- CONCRETE LANDING WITH MIN 36" DEPTH AND A MAXIMUM OF 1-1/2" LOWER THAN TOP OF DOOR THRESHOLD

**OPTIONAL ROLL-IN SHOWER PLAN NOTES**

- SHOWER COMPARTMENT SEAT
  - MUST BE FOLDING TYPE, NOT TO EXCEED MORE THAN 6 INCHES FROM MOUNTING WALL WHEN FOLDED
  - LOCATED WITHIN 27 INCHES OF SHOWER CONTROLS
  - MOUNTED MINIMUM 17 INCHES AND MAXIMUM 19 INCHES ABOVE BATHROOM FINISHED FLOOR
  - SEAT INSTALLED ON SIDE WALL ADJACENT TO CONTROLS AND EXTENDING FROM BACK WALL TO POINT WITHIN 3 INCHES OF SHOWER COMPARTMENT ENTRY
  - STRUCTURAL ADEQUACY OF MOUNTING HARDWARE AND FASTENERS TO ACCOMMODATE 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE
- SHOWER GRAB BARS
  - MOUNTED MINIMUM 33 INCHES AND MAXIMUM 36 INCHES ABOVE SHOWER FLOOR
  - NOT EXTENDING OVER SHOWER SEAT
  - IF CROSS SECTION IS CIRCULAR, MINIMUM 1-1/4" AND MAXIMUM 2" OUTSIDE DIAMETER
  - IF CROSS SECTION IS NON-CIRCULAR, MINIMUM 4" AND MAXIMUM 4.8" PERIMETER AND MAXIMUM 2-1/4" CROSS SECTION DIMENSION
  - GRAB BARS MOUNTED ADJACENT TO A WALL, 1-1/2" ABSOLUTE SPACE BETWEEN WALL AND GRAB BAR
  - MINIMUM 1-1/2" SPACE BETWEEN GRAB BAR AND PROJECTING OBJECTS BELOW AND AT ENDS
  - MINIMUM 12 INCH SPACE BETWEEN GRAB BAR AND PROJECTING OBJECTS ABOVE
  - SURFACE MATERIAL OF ANY WALLS OR OBJECTS ADJACENT TO GRAB BARS MUST BE FREE OF SHARP OR ABRASIVE ELEMENTS AND HAVE ROUNDED EDGES
  - STRUCTURAL ADEQUACY OF MOUNTING HARDWARE AND FASTENERS TO ACCOMMODATE 250 POUND POINT LOAD APPLIED AT ANY POINT ON THE GRAB BAR, FASTENER, MOUNTING DEVICE, OR SUPPORTING STRUCTURE
  - WALL REINFORCEMENT TO BE PROVIDED AT LOCATION OF GRAB BARS (E.G. BLOCKING)
- OPERABLE PARTS OF SHOWER CONTROLS AND FAUCETS:
  - INSTALLED ON BACK WALL OF SHOWER COMPARTMENT ADJACENT TO SEAT WALL
  - LOCATED MINIMUM 19 INCHES AND MAXIMUM 27 INCHES FROM SEAT WALL
  - LOCATED ABOVE GRAB BAR BUT NO HIGHER THAN 48 INCHES ABOVE SHOWER FLOOR
  - CENTERLINE AT MINIMUM 39 INCHES AND MAXIMUM 41 INCHES ABOVE SHOWER FLOOR
  - SINGLE-LEVER DESIGN
  - OPERABLE WITH MAXIMUM 5 POUNDS OF FORCE
  - OPERABLE WITH ONE HAND AND WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF WRIST
- SPRAYER UNIT AND ASSOCIATED OPERABLE PARTS SHALL BE PROVIDED PER THE FOLLOWING:
  - OPERABLE PARTS, INCLUDING HANDLE, TO BE INSTALLED ON BACK WALL OF SHOWER COMPARTMENT MINIMUM 19 INCHES AND MAXIMUM 27 INCHES FROM SEAT WALL
  - OPERABLE PARTS LOCATED ABOVE GRAB BAR BUT NO HIGHER THAN 48 INCHES ABOVE SHOWER FLOOR, MEASURED TO TOP OF MOUNTING BRACKET
  - MINIMUM 59 INCH LONG HOSE
  - CAPABLE FOR USE AS FIXED SHOWER HEAD AND HAND HELD SHOWER
  - ON/OFF CONTROL WITH NON-POSITIVE SHUT OFF
  - ADJUSTABLE -HEIGHT SHOWER HEADS ON VERTICAL BAR SHALL NOT OBSTRUCT USE OF BATHTUB GRAB BARS
- WHERE SOAP DISHES ARE PROVIDED, MAXIMUM 40 INCHES ABOVE SHOWER FLOOR AND WITHIN REACH LIMITS FROM THE SHOWER SEAT
- MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS OF ROLL-IN SHOWER FLOORS
- MAXIMUM 3/8" HIGH THRESHOLDS WITH MAXIMUM 50% BEVELED SLOPE AT ROLL-IN SHOWERS
- WHERE DRAINS ARE PROVIDED AT ROLL-IN SHOWERS, MAXIMUM 3/4" GRATE OPENINGS FLUSH WITH SHOWER FLOOR SURFACE



**WALL LEGEND**

- 2x6 WALL
- 2x4 WALL
- 2x4 PONY WALL

WINDOW SCHEDULE				
MARK	DIMENSION	TYPE	TEMPERED	NOTES
(A)	3'-0" x 4'-0"	SLIDING		
(B)	4'-0" x 4'-0"	SLIDING		
(C)	2'-0" x 3'-0"	SLIDING	Y	
(D)	3'-0" x 2'-0"	SLIDING	Y	

EXTERIOR WINDOWS, EXTERIOR GLAZED DOORS, GLAZED OPENINGS WITHIN EXTERIOR DOORS, GLAZED OPENINGS WITHIN EXTERIOR GARAGE DOORS, AND EXTERIOR STRUCTURAL GLASS VENEER SHALL COMPLY WITH ONE OF THE FOLLOWING: (SELECT ONE)

A. MULTI-PANE GLAZING WITH A MINIMUM OF ONE TEMPERED PANE MEETING THE REQUIREMENTS OF SECTION 2406 SAFETY GLAZING, AND WHERE ANY GLAZING FRAMES MADE OF VINYL MATERIALS SHALL HAVE WELDED CORNERS, METAL REINFORCEMENT IN INTERLOCK AREA, AND BE CERTIFIED TO AAMA/WDMA/CSA 101/I.S.2/A40

B. MINIMUM 20-MIN FIRE-RESISTANCE-RATED.

C. MEET PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-2

DOOR SCHEDULE				
MARK	DIMENSION	TYPE	TEMPERED	NOTES
(1)	3'-0" x 6'-8"	SWINGING		1-3/8" SOLID CORE
(2)	2'-8" x 6'-8"	SWINGING		
(3)	8'-0" x 6'-8"	SLIDING		6FT CLOSET

EXTERIOR DOORS SHALL COMPLY WITH ONE OF THE FOLLOWING: (SELECT ONE)

A. EXTERIOR SURFACE OR CLADDING OF NON-COMBUSTIBLE OR IGNITION-RESISTANT MATERIAL

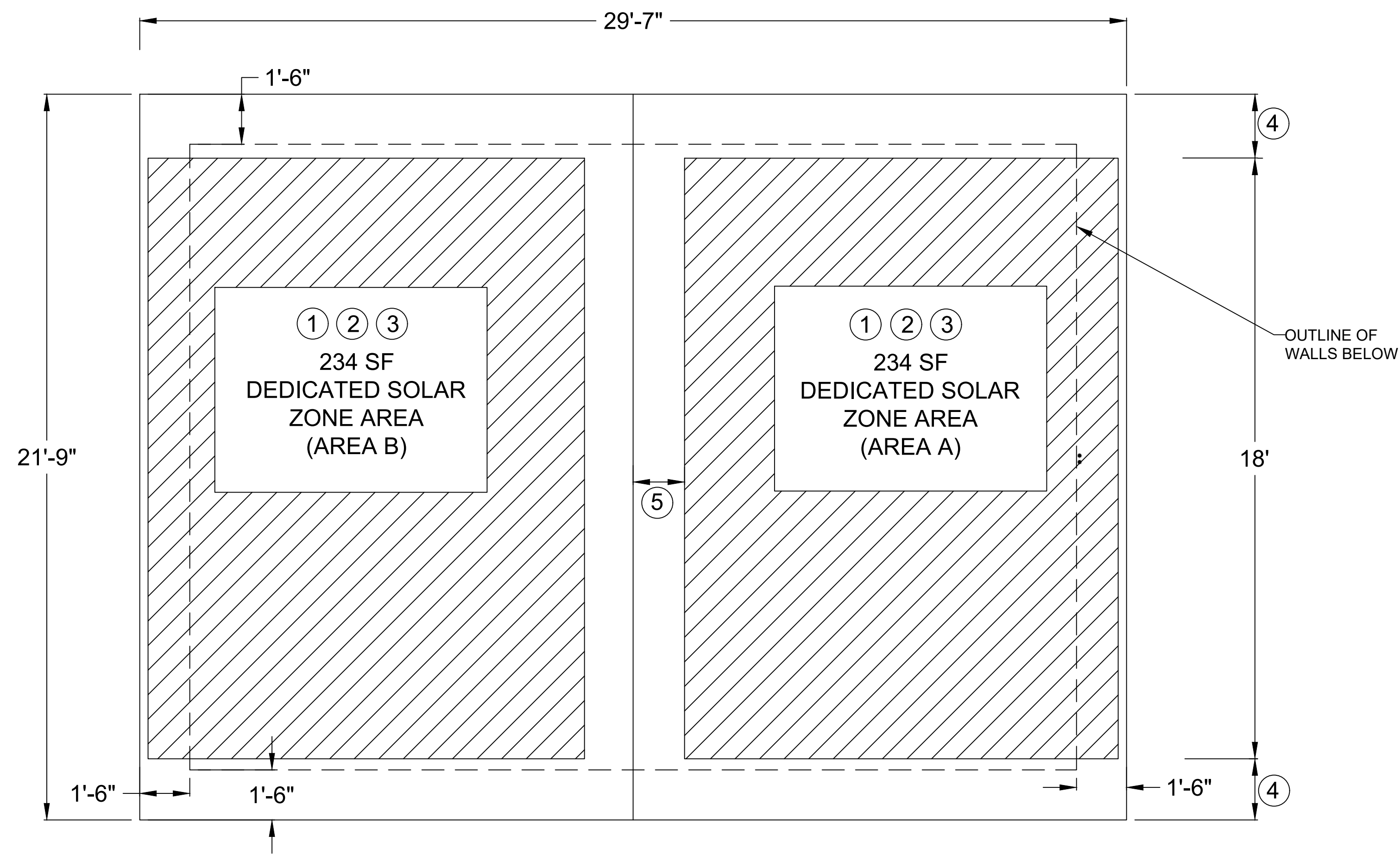
B. SOLID CORE WOOD COMPLYING WITH THE FOLLOWING:
 

- STILES AND RAILS MINIMUM 1-3/8 INCHES THICK
- RAISED PANELS MINIMUM 1-1/4 INCHES THICK

**EXCEPTION:** EXTERIOR PERIMETER OF RAISED PANEL MAY TAPER TO A TONGUE MINIMUM 3/8 INCHES THICK

C. MINIMUM 20-MIN FIRE RATED WHEN TESTED PER NFPA 252

D. MEET PERFORMANCE REQUIREMENTS OF SFM STANDARD 12-7A-1



**ATTIC VENTILATION REQUIRED**

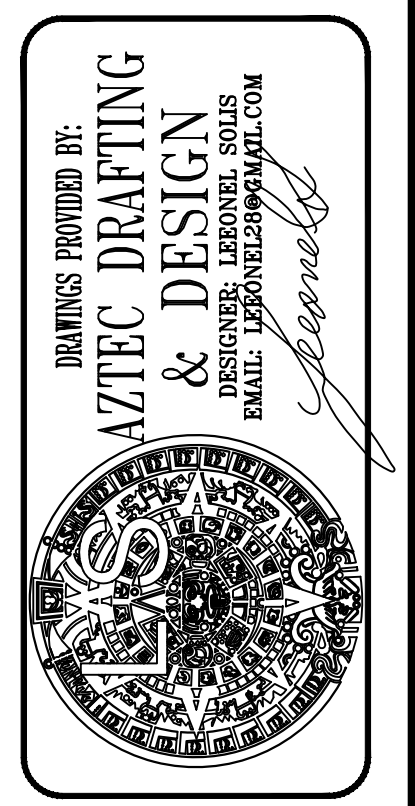
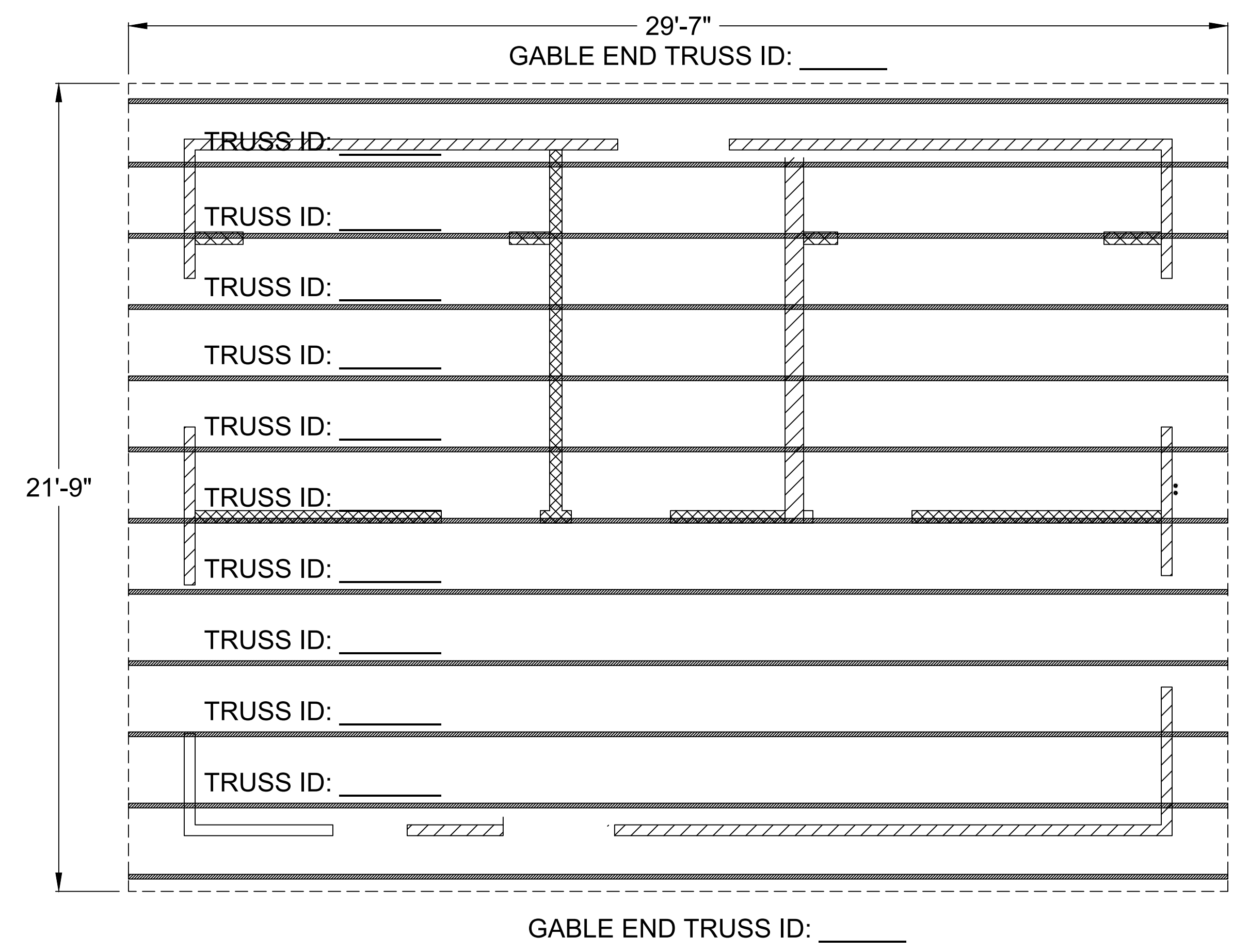
NET FREE CROSS VENTILATION AREA =  $\frac{1}{300}$   
 VENT AREA REQ'D =  $600 \text{ ft}^2 / 300 = 2 \text{ ft}^2 \times 144 = 288 \text{ in}^2$

GABLE END VENTS  
 NFVA =  $71 \text{ in}^2$   
 QTY = 2 VENTS  
 VENT AREA PROVIDED =  $2 \times 71 \text{ in}^2 = 142 \text{ in}^2$

EAVE VENTS  
 NFVA =  $23 \text{ in}^2$   
 QTY = 8 VENTS  
 VENT AREA PROVIDED =  $8 \times 23 \text{ in}^2 = 184 \text{ in}^2$

TOTAL VENT AREA PROVIDED  
 $(142 \text{ in}^2) + (184 \text{ in}^2) = 326 \text{ in}^2 > 288 \text{ in}^2$

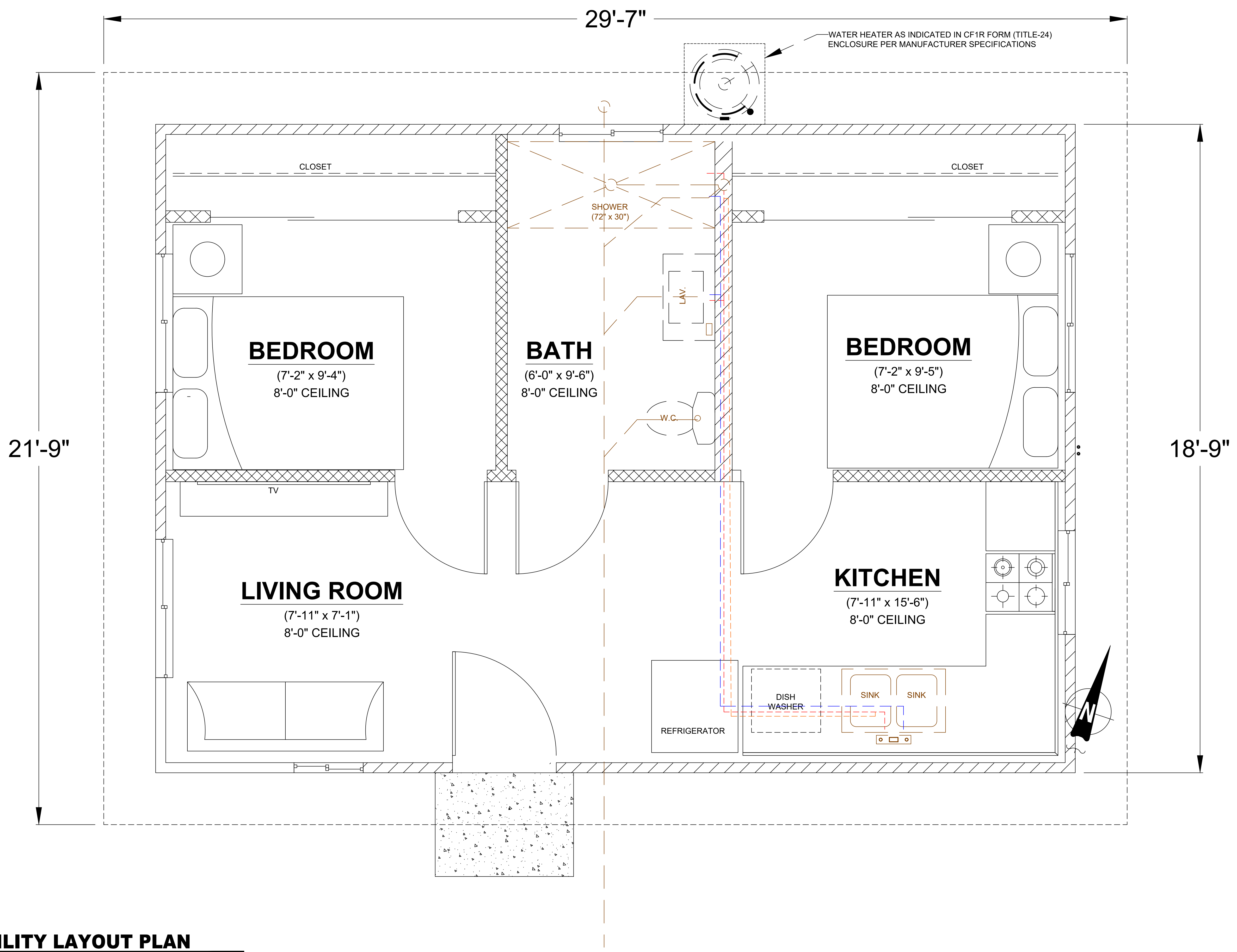
- SOLAR READY KEY NOTES**
1. MIN 250 S.F. SOLAR ZONE AREA
  2. DEDICATED SOLAR ZONE AREA LOCATED BETWEEN 110 AND 270 DEGREES OF TRUE NORTH - USE AREA A OR B AS NEEDED.
  3. NO OBSTRUCTIONS - INCLUDING VENTS, CHIMNEYS, SKYLIGHTS, ARCHITECTURAL FEATURES, ROOF-MOUNTED EQUIPMENT - LOCATED WITHIN SOLAR ZONE.
  4. 3' MIN FIRE FIGHTER ACCESS
  5. 1'-6" SMOKE VENTILATION SETBACK AT RIDGES



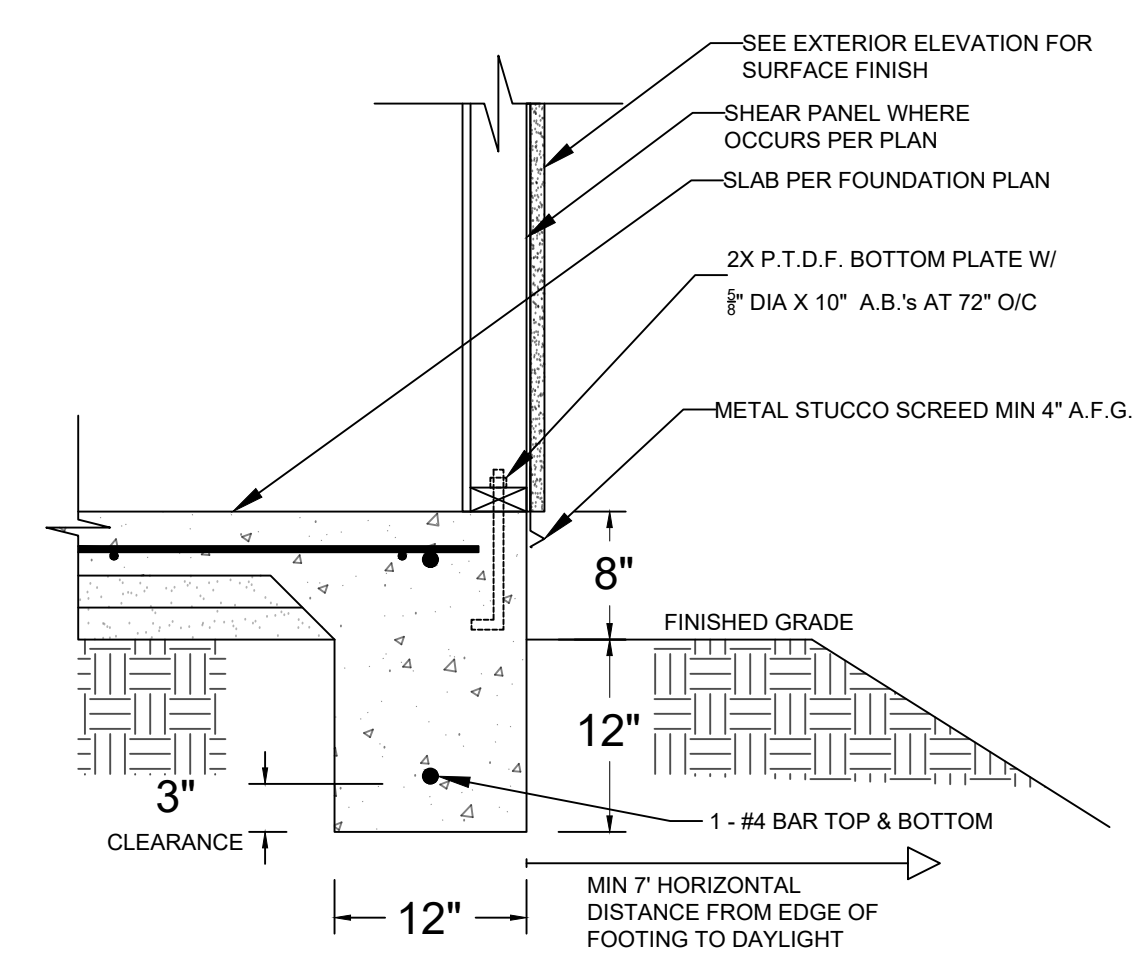
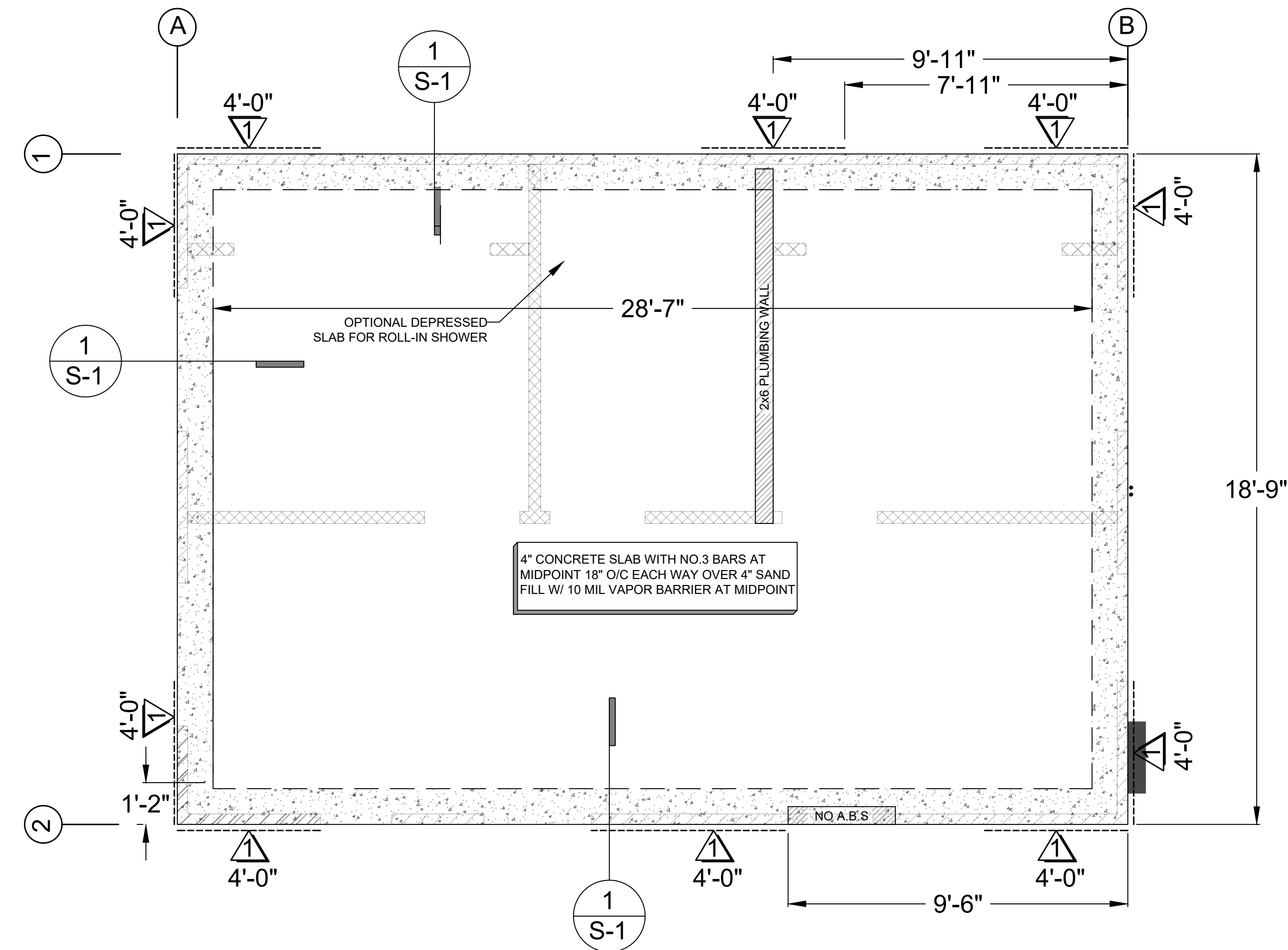
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**ROOF PLAN / TRUSS LAYOUT**

REVISION	
0	02/14/22
PROJECT NO.	P013
SHEET NO.	A-7



**1 UTILITY LAYOUT PLAN**  
 3/4"=1'



**DETAIL 1**  
(NTS)

**FOUNDATION PLAN NOTES**

1. ALL ANCHORS BOLTS SHALL BE  $\frac{3}{8}$ " DIAMETER AND HAVE A MINIMUM EMBEDMENT OF 7 INCHES INTO CONCRETE (UNO) AND NOT SPACED MORE THAN 6 FEET APART
2. 3"x3"x0.225" PLATE WASHERS SHALL BE USED ON EACH SILL PLATE ANCHOR BOLT
3. FOR STANDARD CUT WASHERS PLACED BETWEEN PLATE WASHER AND NUT, HOLE IN PLATE WASHER MAY BE DIAGONALLY SLOTTED WITH MAXIMUM  $\frac{3}{8}$ " LARGER WIDTH THAN BOLT DIAMETER AND MAXIMUM 1-3/4" SLOT LENGTH
4. PROVIDE A MINIMUM OF TWO ANCHOR BOLTS PER SILL PLATE WITH ONE BOLT LOCATED MAXIMUM 12" AND MINIMUM 7 BOLT DIAMETERS FROM EACH END OF EACH SECTION.
5. BOLTS LOCATED IN THE MIDDLE THIRD OF THE SILL PLATE WIDTH
6. FASTENERS FOR PRESSURE-PRESERVATIVE TREATED AND FIRE RETARDANT TREATED WOOD SHALL BE HOT-DIPPED ZINC COATED GALVANIZED, STAINLESS STEEL OR COPPER
7. NO LPG PIPING ASSEMBLIES ALLOWED IN OR BENEATH SLABS WITHIN THE STRUCTURE

**LEGEND**

# BRACED WALL LINE

**WOOD STRUCTURAL PANEL SHEATHING**

MARK	MINIMUM NAIL		MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMUNAL PANEL THICKNESS (in)	MAXIMUM WALL STUD SPACING (in)	PANEL NAIL SPACING	
	SIZE	PENETRATION (in)				EDGES (inches o/c)	FIELD (inches o/c)
1	6D COMMON	1.5	24:0	$\frac{3}{8}$ "	16	6	12
	8D COMMON	1.75	24:16	$\frac{7}{16}$ "	16	6	12

WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS 1, DOC PS 2 OR ANSI/APA PRP 210, CSA O437 OR CSA O325. PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY

VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON STUDS.  
HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER AND BE FASTENED TO COMMON BLOCKING OF A MINIMUM 1 1/2 INCH THICKNESS.

**AZTEC DRAFTING & DESIGN**  
9119 JAMACHA RD, SUITE 115  
SPRING VALLEY, CA 91977  
CELL: 619-414-8506

DRAWINGS PROVIDED BY:  
**AZTEC DRAFTING & DESIGN**  
DESIGNED BY: JUAN MANUEL DIARTE  
EMAIL: JDIARTE@AZTECDRAFTING.COM

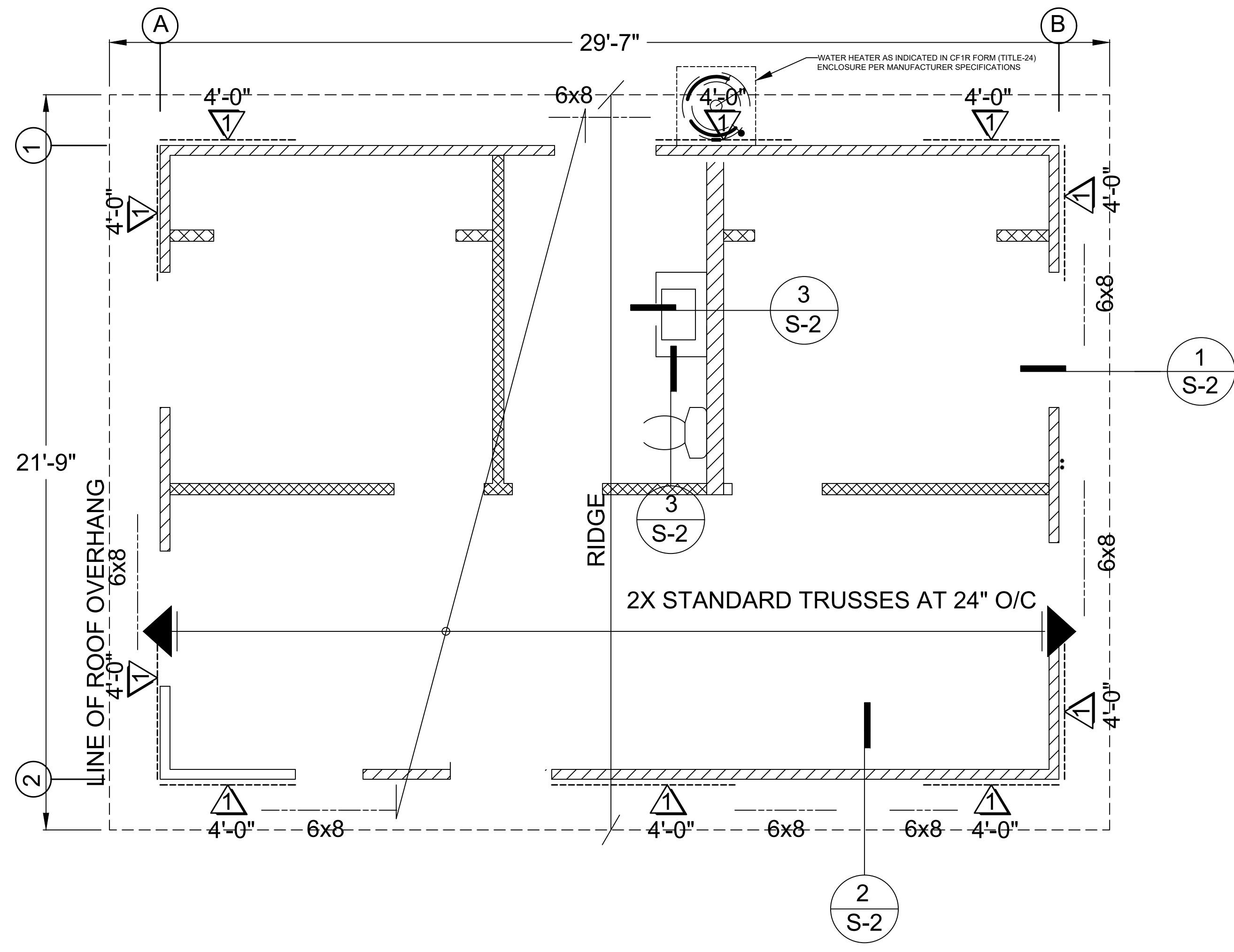
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**FOUNDATION PLAN**

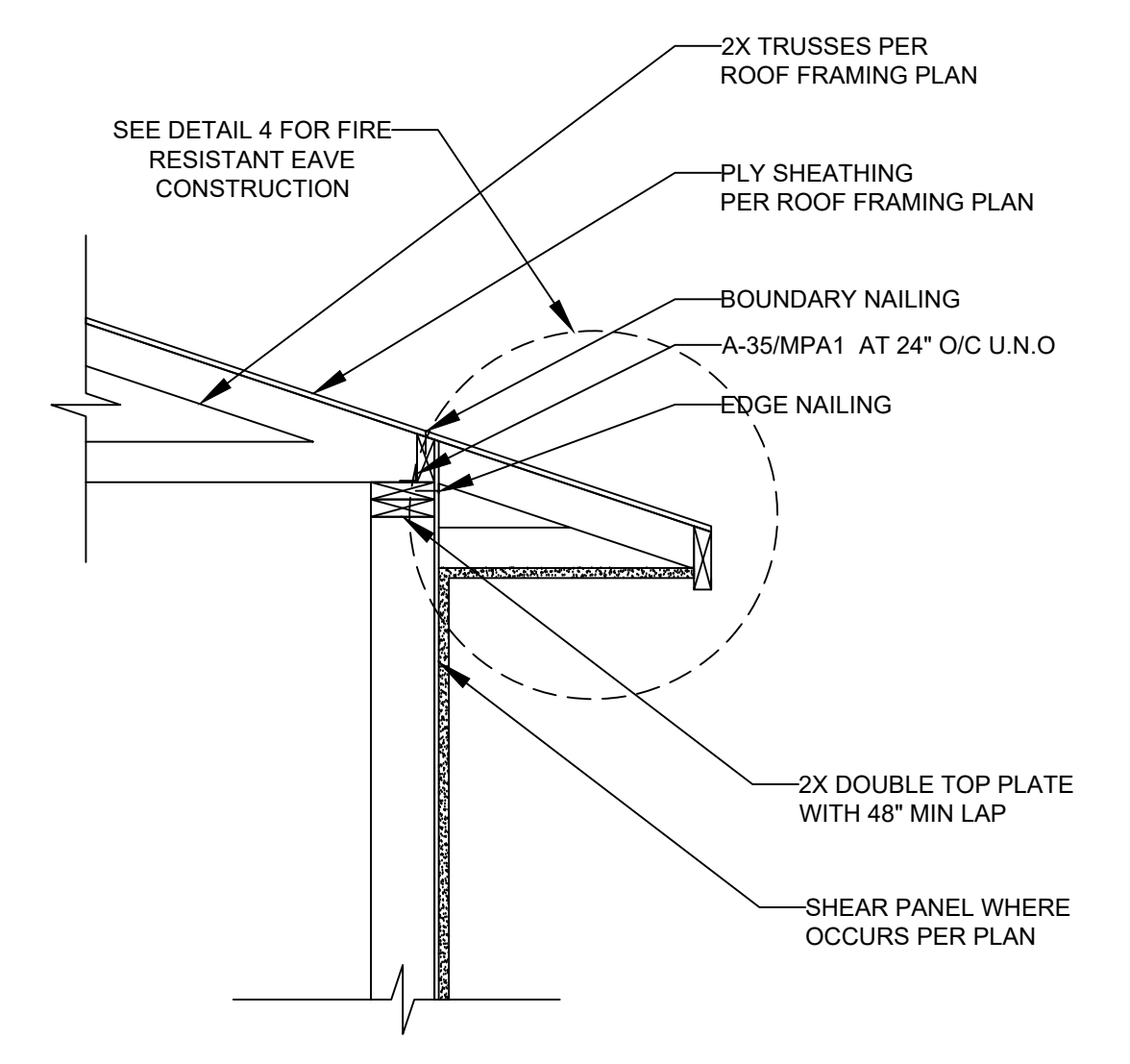
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PROJECT NO.  
**P013**

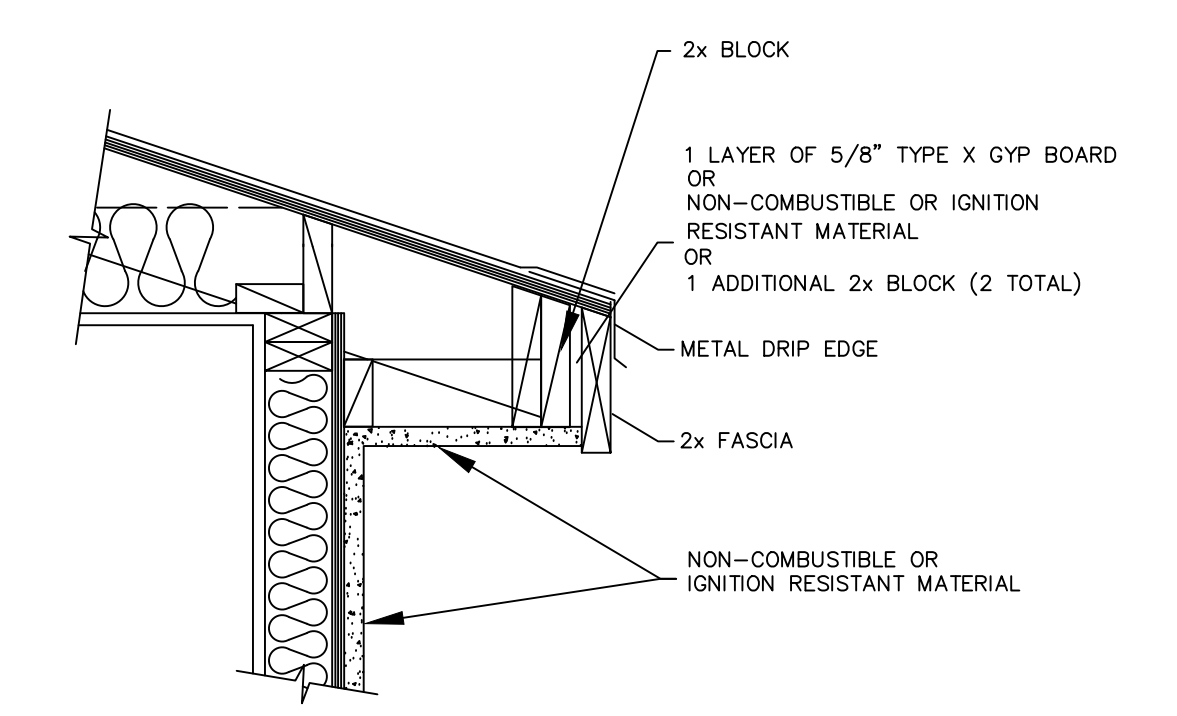
SHEET NO.  
**S-1**



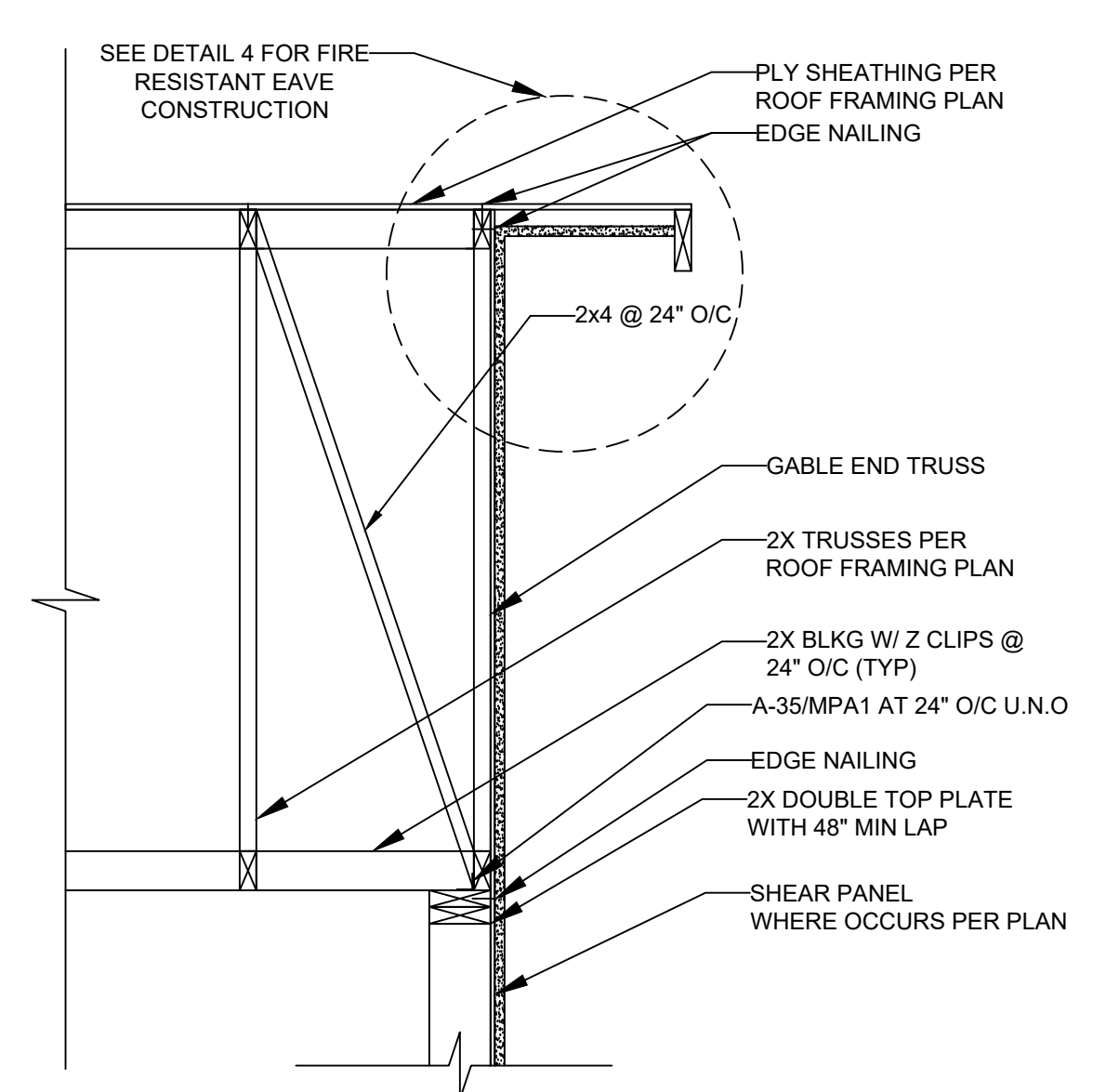
NOTE: ROOF SHEATHING TO BE 3/8" APA RATED SHEATHING 24:0 AT 6" O/C EDGE NAILING AND 12" O/C FIELD NAILING



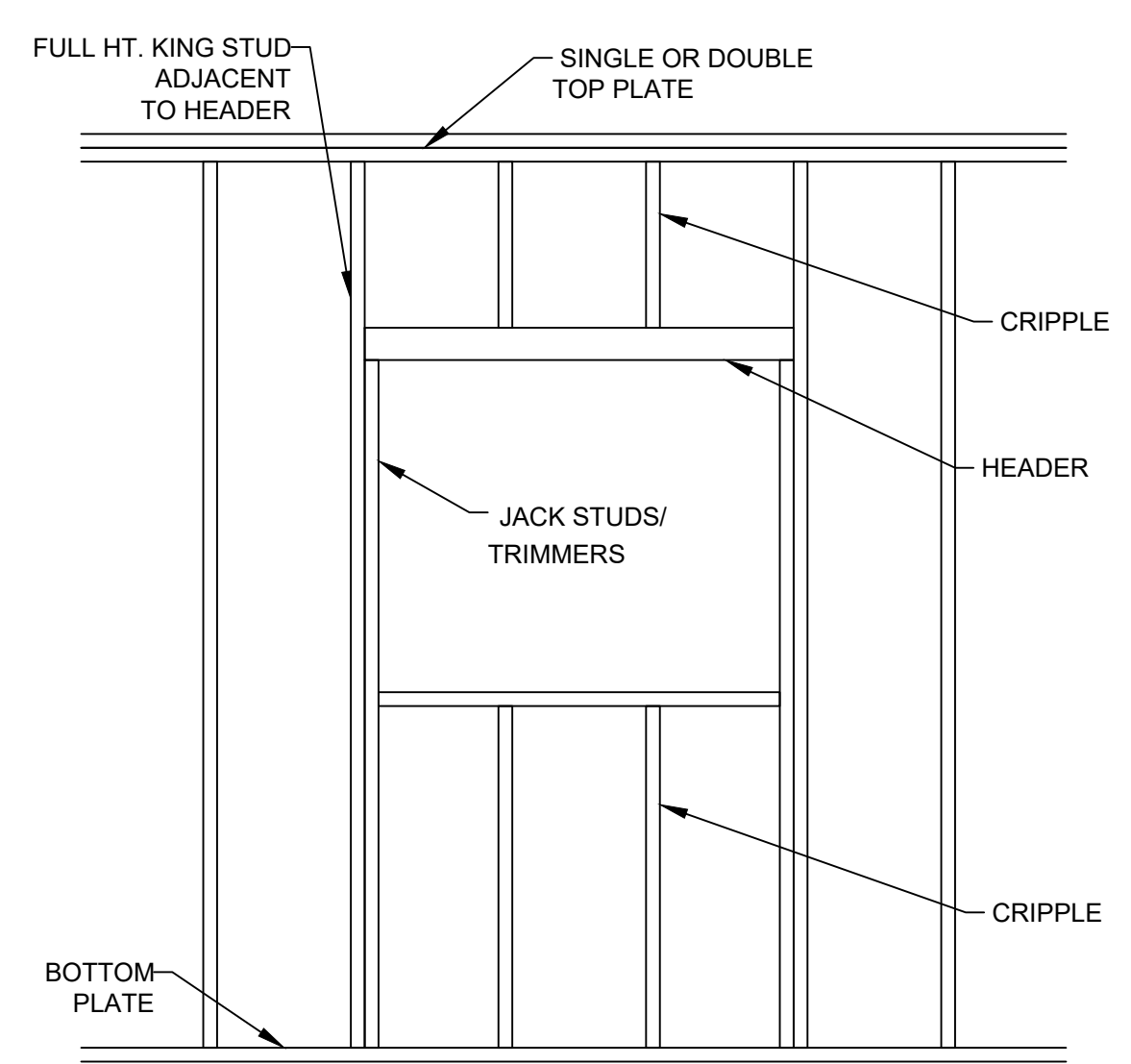
**DETAIL 1**  
(NTS)



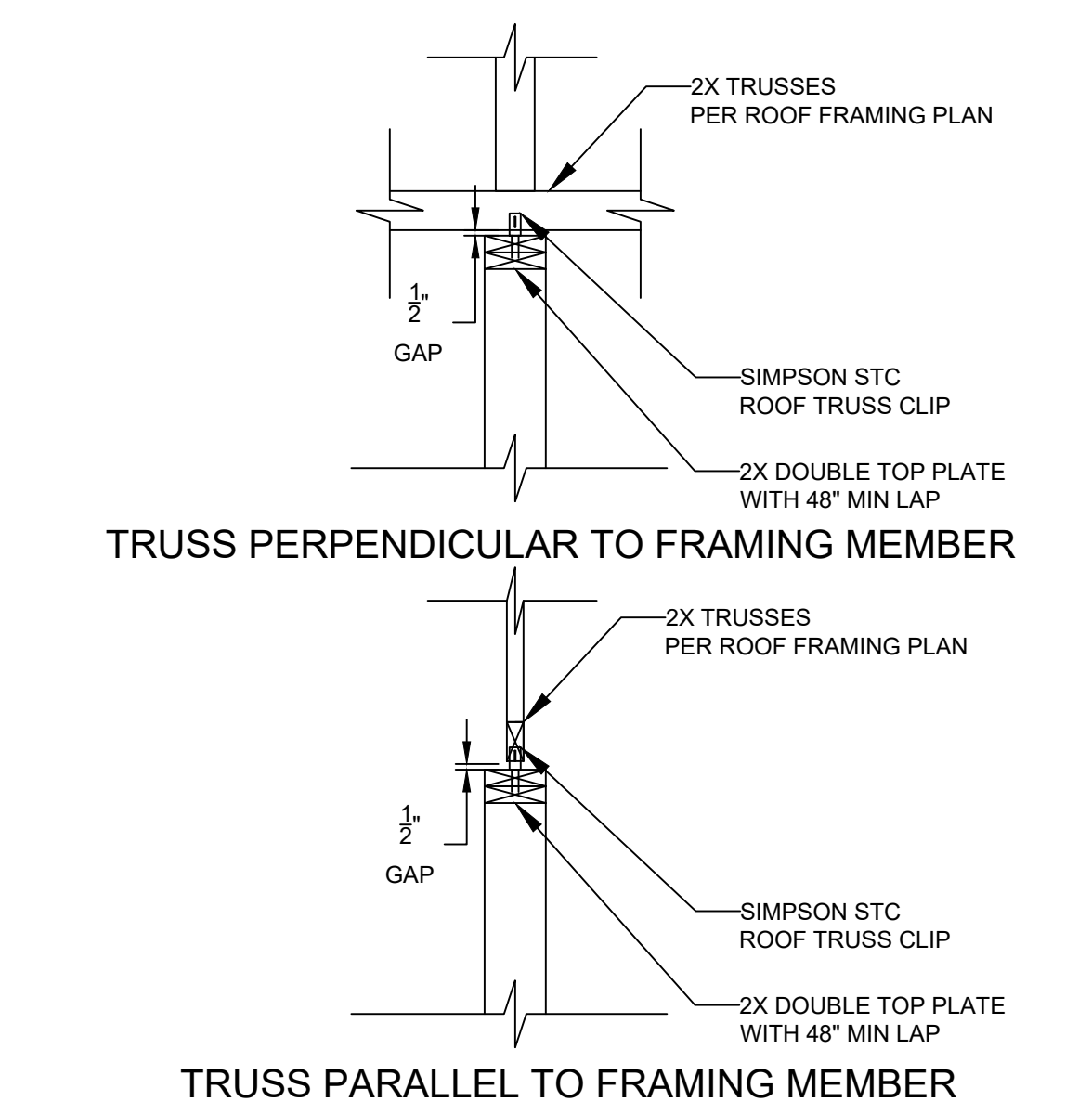
**DETAIL 4**  
(NTS)



**DETAIL 2**  
(NTS)



**DETAIL 5**  
(NTS)



**DETAIL 3**  
(NTS)

WOOD STRUCTURAL PANEL SHEATHING							
MARK	MINIMUM NAIL		MINIMUM WOOD STRUCTURAL PANEL SPAN RATING	MINIMUM NOMUNAL PANEL THICKNESS (in)	MAXIMUM WALL STUD SPACING (in)	PANEL NAIL SPACING	
	SIZE	PENETRATION (in)				EDGES (inches o/c)	FIELD (inches o/c)
1	6D COMMON	1.5	24:0	3/8"	16	6	12
	8D COMMON	1.75	24:16	7/16"	16	6	12

WOOD STRUCTURAL PANELS SHALL CONFORM TO DOC PS 1, DOC PS 2 OR ANSI/APA PRP 210, CSA O437 OR CSA O325. PANELS SHALL BE IDENTIFIED BY A GRADE MARK OR CERTIFICATE OF INSPECTION ISSUED BY AN APPROVED AGENCY

VERTICAL JOINTS OF PANEL SHEATHING SHALL OCCUR OVER AND BE FASTENED TO COMMON STUDS.  
 HORIZONTAL JOINTS IN BRACED WALL PANELS SHALL OCCUR OVER AND BE FASTENED TO COMMON BLOCKING OF A MINIMUM 1 1/2 INCH THICKNESS.

**LEGEND**

# BRACED WALL LINE