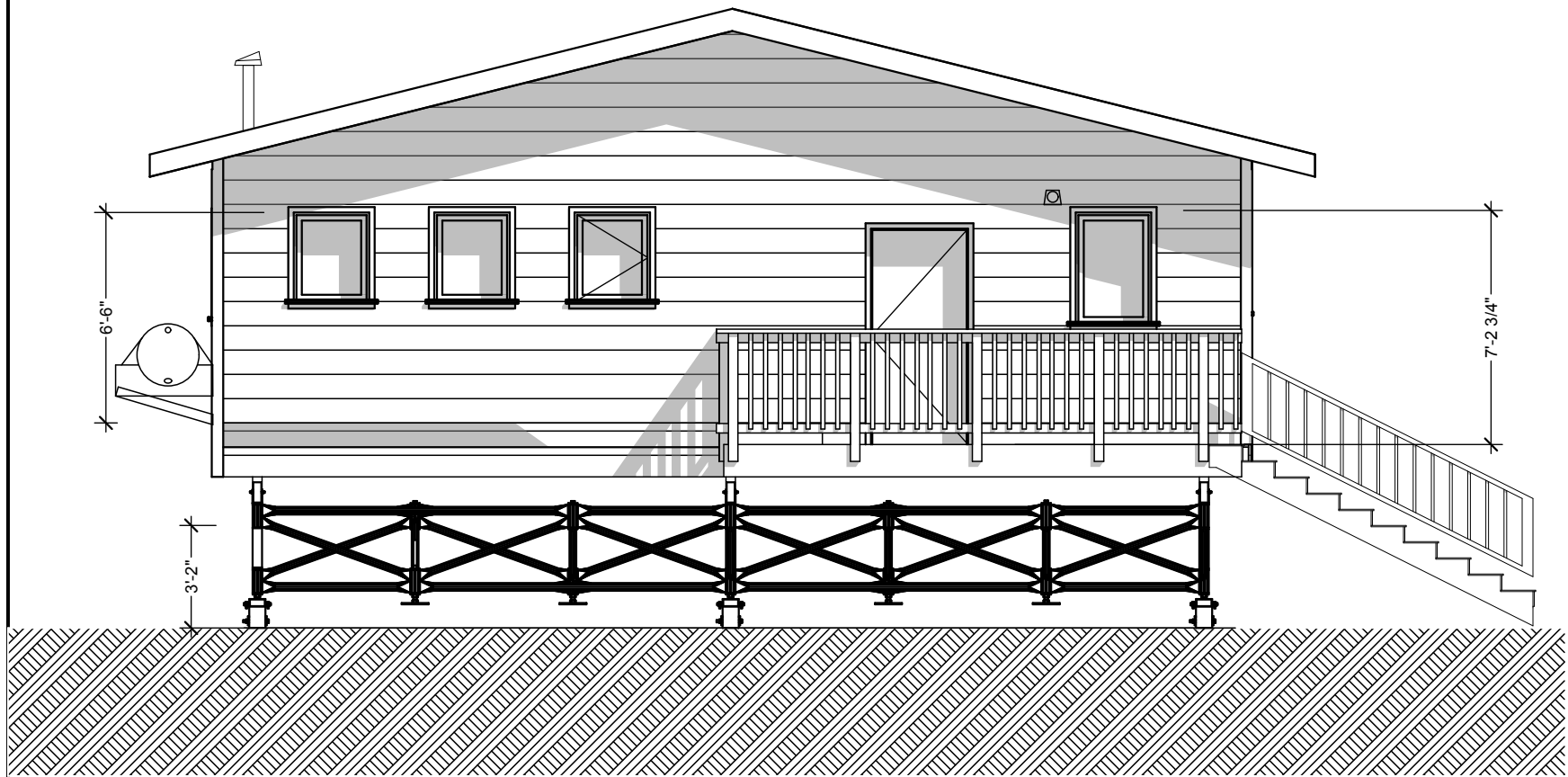


# NEWTOK DEMONSTRATION HOME



## CONTRACTOR NOTES

## MATERIAL KEY

	LUMBER (IN SECTION)		METAL
	LUMBER (IN ELEV)		SPRAY INSULATION
	PLYWOOD		FIBERGLASS SOUND BATTS
	SOFFIT		

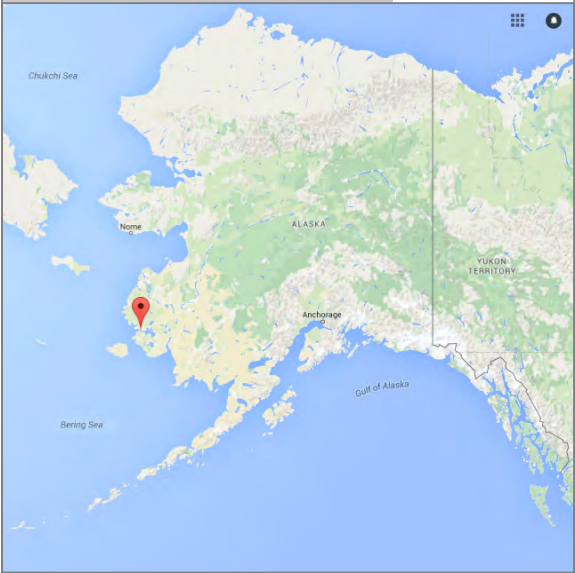
## TERMINOLOGY

APPROX	APPROXIMATELY	INTEG	INTEGRATED
ADJ	ADJUSTABLE	INSUL	INSULATED / INSULATION
AFF	ABOVE FINISHED FLOOR	MFR	MANUFACTURER
CL	CENTER LINE	MAX	MAXIMUM
CONT	CONTINUED	MECH	MECHANICAL
DEG	DEGREE(S)	MIN	MINIMUM
DHW	DOMESTIC HOT WATER	NEC	NECESSARY
DIMS	DIMENSIONS	N-S	NORTH - SOUTH
DWG	DRAWING	O/C	ON CENTER
EA	EACH	O.E.	OUTSIDE EDGE
ELEV	ELEVATION	PCS	PIECES
E-W	EAST - WEST	REF	REFERENCE
FDN	FOUNDATION	REQ'D	REQUIRED
FOF	FACE OF FRAMING	RO	ROUGH OPENING
GALV	GALVANIZED	SECT	SECTION
HDG	HOT DIPPED GALVANIZED	SHT	SHEET
HRV	HEAT RECOVERY VENTILATOR	SHELV	SHELVING
ID	IDENTIFICATION	TBD	TO BE DETERMINED
INT	INTERIOR	TYP	TYPICAL
		VIF	VERIFY IN FIELD
		W/	WITH

## INSULATION NOTES

Polyurethane spray applied foam is a high performance insulation that must be applied strictly according to manufacturer's specifications. Different manufacturers may have different application criteria. Any contractor applying a particular brand of foam must be trained by the manufacturer, or a factory authorized representative, in the handling and application of that product. All individuals who are working with or around spray applied polyurethane foam insulation during installation and initial curing must be knowledgeable of product characteristics such as curing times, exposure times, and safety precautions as specified by the product manufacturer. Additionally, the equipment used to mix and spray a given polyurethane insulation product must meet manufacturer application specifications for that product. Spray foam insulation must be applied at temperatures and against surfaces whose temperatures meet manufacturer specifications. Failure to comply with any of the above mentioned criteria may result in a defective installation that potentially undermines the insulation performance and may create indoor air problems for the home occupants.

## PROJECT LOCATION



## LIST OF DRAWINGS

A0.0	COVER SHEET
T33.15/S1	TRIODETIC FOUNDATION PLAN
T33.15/A1	TRIODETIC FOUNDATION ASSE...
A1.0	FOUNDATION/FRAMING PLAN
A1.1	TRUSS PROFILES
A1.2	PLYWOOD LAYOUT
A1.3	1st FLOOR PLAN
A2.0	ELEVATIONS
A3.0	SECTIONS
A4.0	WINDOW DETAILS
A4.1	WALL AND ROOF DETAILS
A4.2	TRIM DETAILS
A4.3	KITCHEN DETAILS
A5.1	WINDOW AND DOOR SCHEDULES
E1.0	ELECTRICAL LIGHTING LAYOUT
E1.1	ELECTRICAL SYSTEMS
M1.0	MECHANICAL VENTILATION PLAN
M1.1	MECHANICAL SECTION
M1.2	WATER SYSTEM
M1.3	MECH ROOM LAYOUT
ML1.1	MATERIALS LIST
ML1.2	MATERIALS LIST

## General Notes

DESIGNED BY: SNC		
DRAWN BY: Haley Nelson		
No.	Rev./Issue	9/7/16

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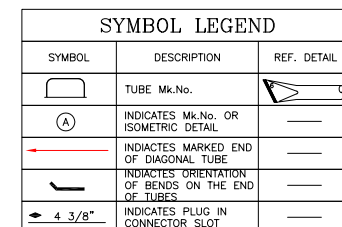
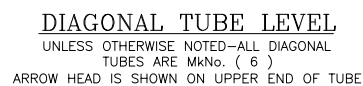
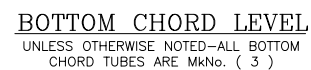
PROJECT  
NEWTOK DEMONSTRATION HOME

FOR THE COMMUNITY OF NEWTOK  
NEWTOK, ALASKA  
ISSUED  
2nd September 2015  
RECORD DRAWINGS

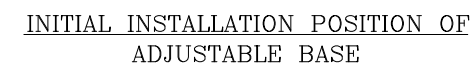
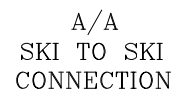
COVER SHEET

A0.0

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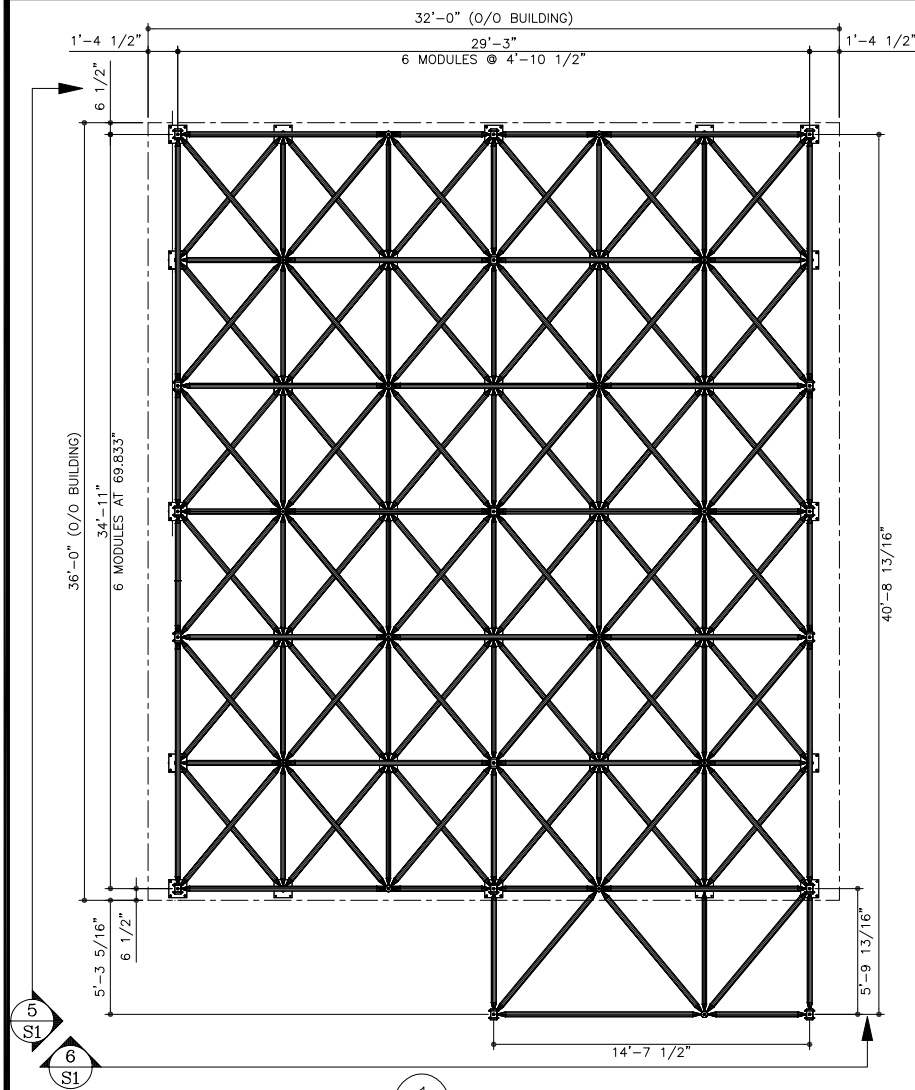


ARCHITECT:					PAT. CANADA, U.S.A., GREAT BRITAIN & AUSTRALIA, BELGIUM & OTHER FOREIGN COUNTRIES INTERNATIONAL PATENTS PENDING.	TRODICTIC INC. 4468 EAST GENSSENE STREET SYRACUSE, NEW YORK 13214-2253 800-965-2743 315-453-7817 FAX : info@trodic.com EMAIL :
ENGINEER:	-	TL	06/23/2015	FOR CONSTRUCTION		
CONTRACTOR:						
DWG. BY: TABITHA LANE						
CHECK'D BY: ROW TAYLOR						This drawing and the design it is supplied in confidence. It must not be used for any purpose other than that intended without permission in writing from the owner.
DATE: JUNE 23, 2015						

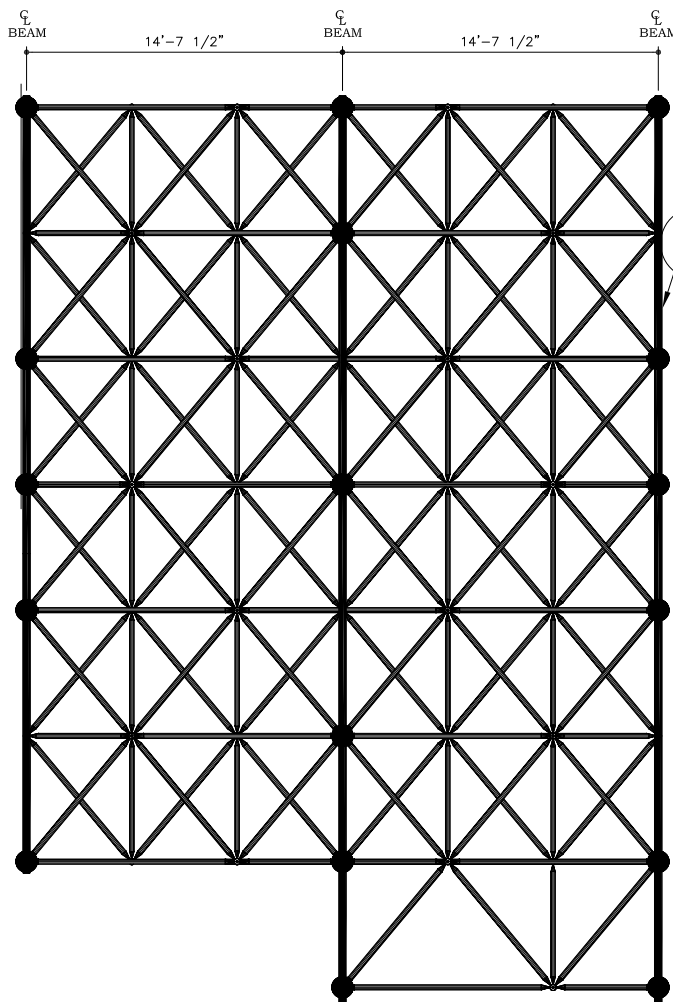


**NOTE:** 37 3/4" DEPTH TO UNDERSIDE OF BEAM IS BASED ON AN INSTALLED POSITION OF THE ADJUSTABLE BASE AS SHOWN ABOVE

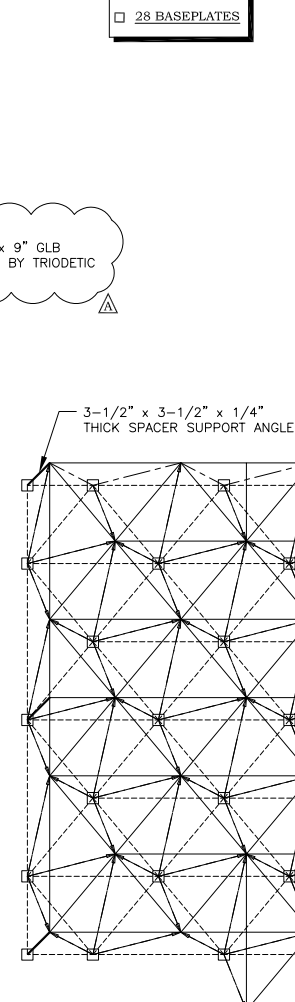




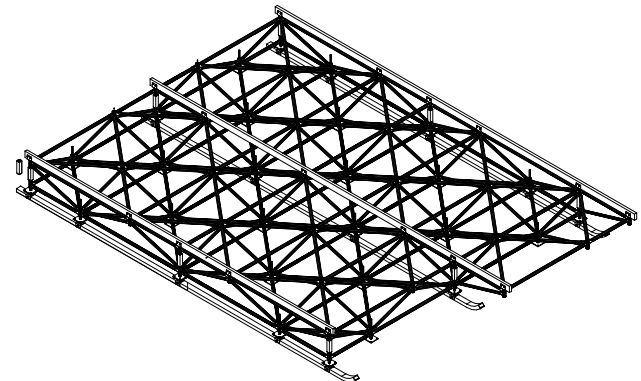
PLAN VIEW 1  
SCALE: 1/4" = 1'-0"



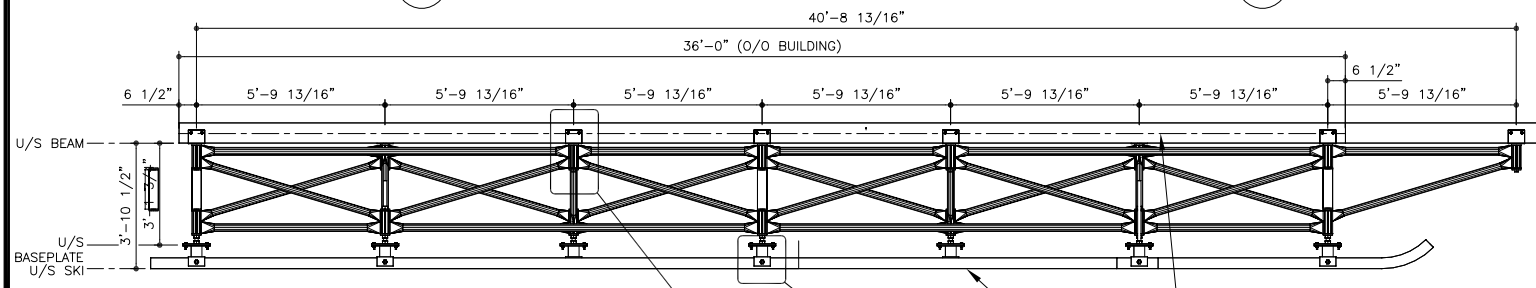
BEAM LAYOUT 2  
SCALE: 1/4" = 1'-0"



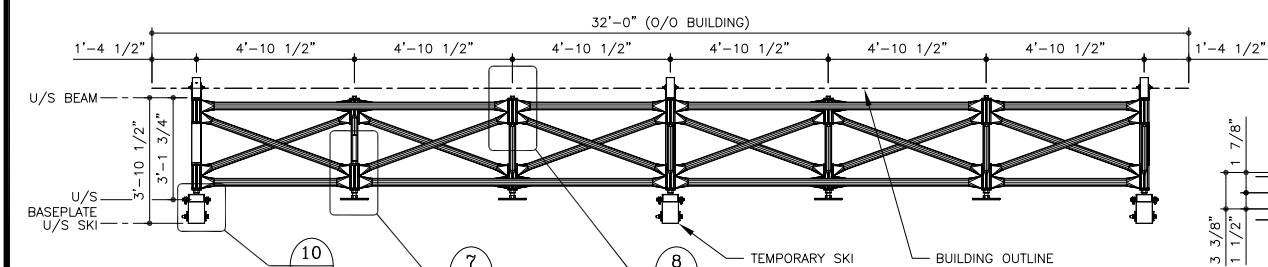
GEOMETRY VIEW 3  
SCALE: NTS



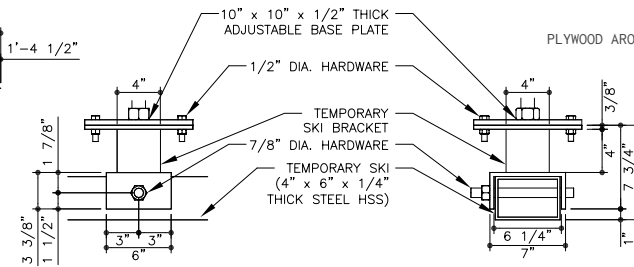
ISOMETRIC COMPLETE STRUCTURE 4  
SCALE: NTS



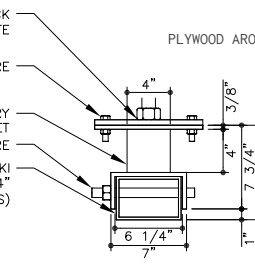
ELEVATION 5  
SCALE: 3/8" = 1'-0"



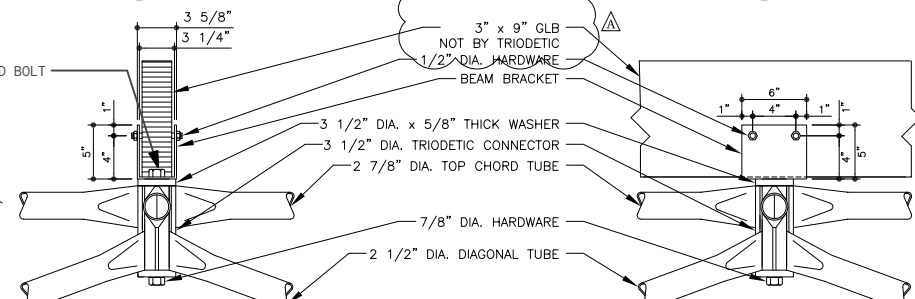
ELEVATION 6  
SCALE: 3/8" = 1'-0"



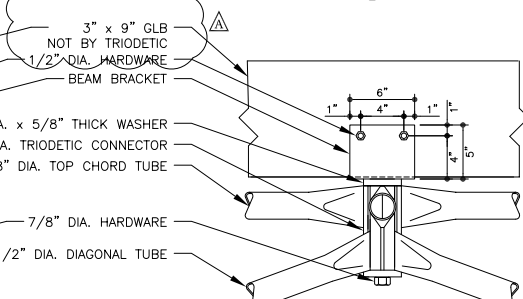
DETAIL 9  
SCALE: 1 1/2" = 1'-0"



DETAIL 10  
SCALE: 1 1/2" = 1'-0"



DETAIL 11  
SCALE: 1 1/2" = 1'-0"



DETAIL 12  
SCALE: 1 1/2" = 1'-0"

**GENERAL NOTES**

**MATERIAL:**

SPACE FRAME MEMBERS ARE TO BE STEEL TUBE: ASTM A500 - GRADE B (MINIMUM) WITH 0.148" WALL THICKNESS.

TRIODETIC CONNECTORS AND PLUGS ARE TO BE ALUMINUM ALLOY AA 6061-T6.

CONNECTOR WASHERS, SADDLE BRACKETS, SPACER ANGLES AND SUPPORT WELDMENTS ARE TO BE STEEL IN ACCORDANCE WITH ASTM A36.

THREADED HARDWARE IS TO BE STEEL IN ACCORDANCE WITH ASTM A307 (MINIMUM), AND ASTM A325 WHERE REQUIRED BY DESIGN.

**DESIGN:**

DESIGN IS IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL BUILDING CODE (2012) AND ITS APPLICABLE SUPPLEMENTS AND ALSO IN ACCORDANCE WITH TRIODETIC DESIGN CRITERIA ESTABLISHED BY PREVIOUS TESTS.

**FINISH:**

STEEL TUBE MEMBERS ARE TO BE PRE-GALVANIZED TO ASTM A653 AND NOT LESS THAN 1.25oz./ft.

ALUMINUM TRIODETIC CONNECTORS AND PLUGS ARE TO BE MILL FINISH.

CONNECTOR WASHERS, SADDLE BRACKETS AND SPACER ANGLES ARE TO BE HOT-DIPPED GALVANIZED TO ASTM A123-97.

SUPPORT WELDMENTS ARE TO BE HOT-DIPPED GALVANIZED TO ASTM A123-97.

BOLTS, NUTS AND THREADED RODS ARE TO BE ZINC PLATED TO ASTM B633-98 WITH A ZINC COATING WEIGHT RANGE FROM 0.00015 to 0.001 inches.

ARCHITECT: ENGINEER: CONTRACTOR: DWG. BY: TABITHA LANE CK'D BY: RON TAYLER DATE: JUNE 22, 2015	No.	BY TL	DATE 06/22/2015	REVISION FOR APPROVAL FOR APPROVAL	TP 184/15 DWG. No. T33.15/S1 REV. A

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TEL: 855-7417  
FAX: 855-7417

TRIODETIC

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NOTES

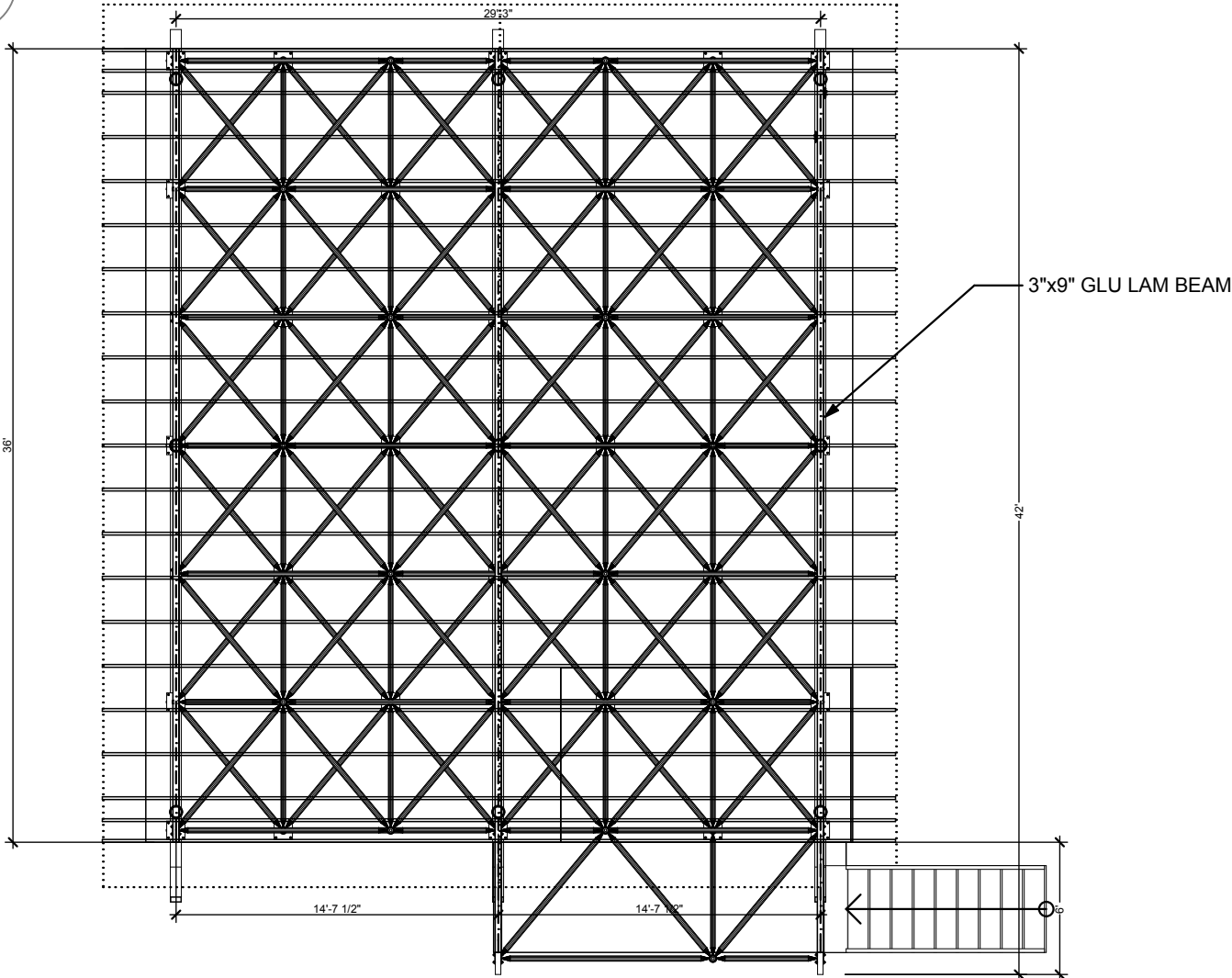
ADJUSTABLE SADDLE BRACKET MECHANICALLY FASTENED TO TRIODETIC FOUNDATION FOR CONNECTION WITH GLULAM BEAM

FOUNDATION TO BE CONSTRUCTED ON LEVEL, DURABASE MATERIAL ABOVE GRADE FOR TRANSPORT TO NEW VILLAGE SITE DURING WINTER.

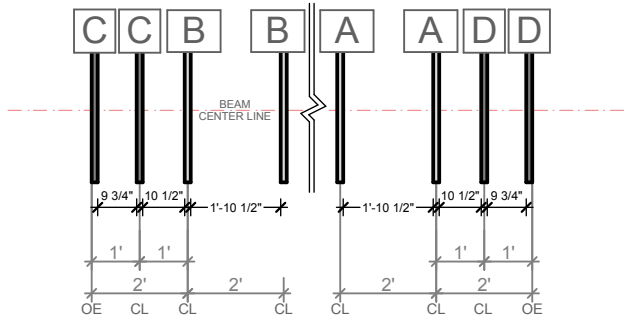
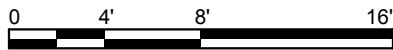
TRUSS SPACER ARRANGEMENT SHALL BE:

TSBR TRUSS SPACER RESTRAINT: 7 PER SPACING. ALTERNATE 1 ROW ON EITHER SIDE OF RIDGE, 1 ROW ON EACH SIDE 2' FROM EAVE ON TOP CHORD, 1 ROW ON EACH SIDE 9' 6" FROM EAVE ON TOP CHORD. 1 ROW ON EAVE WALL AT THE FF LEVEL.

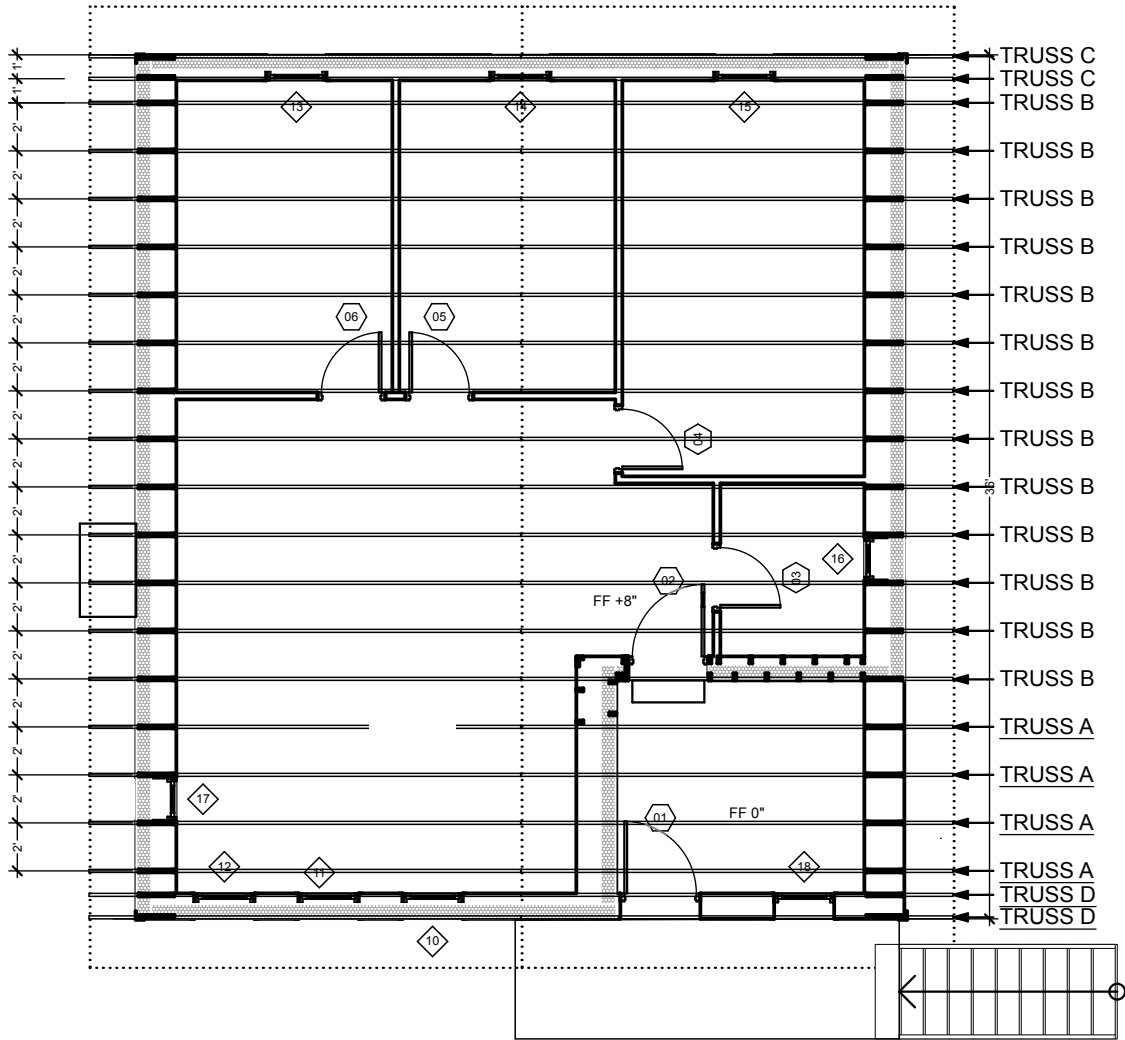
TSF2-24 TRUSS SPACER: 4 ROWS. ROWS ARE 5' 9-1/8" OC FROM INSIDE EDGE OF EXTERIOR WALL



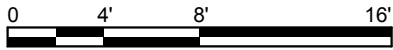
① FOUNDATION PLAN



③ GABLE END WALL TRUSS LAYOUT  
NOT TO SCALE



② FRAMING PLAN



General Notes

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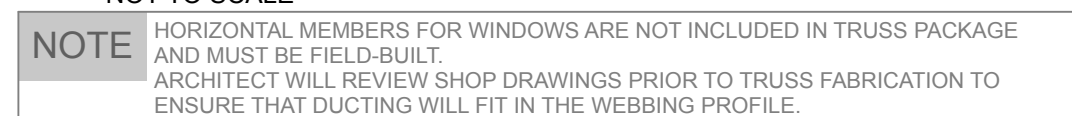
PROJECT NEWTOK DEMONSTRATION HOME

FOR THE COMMUNITY OF NEWTOK  
NEWTOK, ALASKA  
ISSUED 2nd September 2015  
RECORD DRAWINGS

FOUNDATION/  
FRAMING PLAN

A1.0

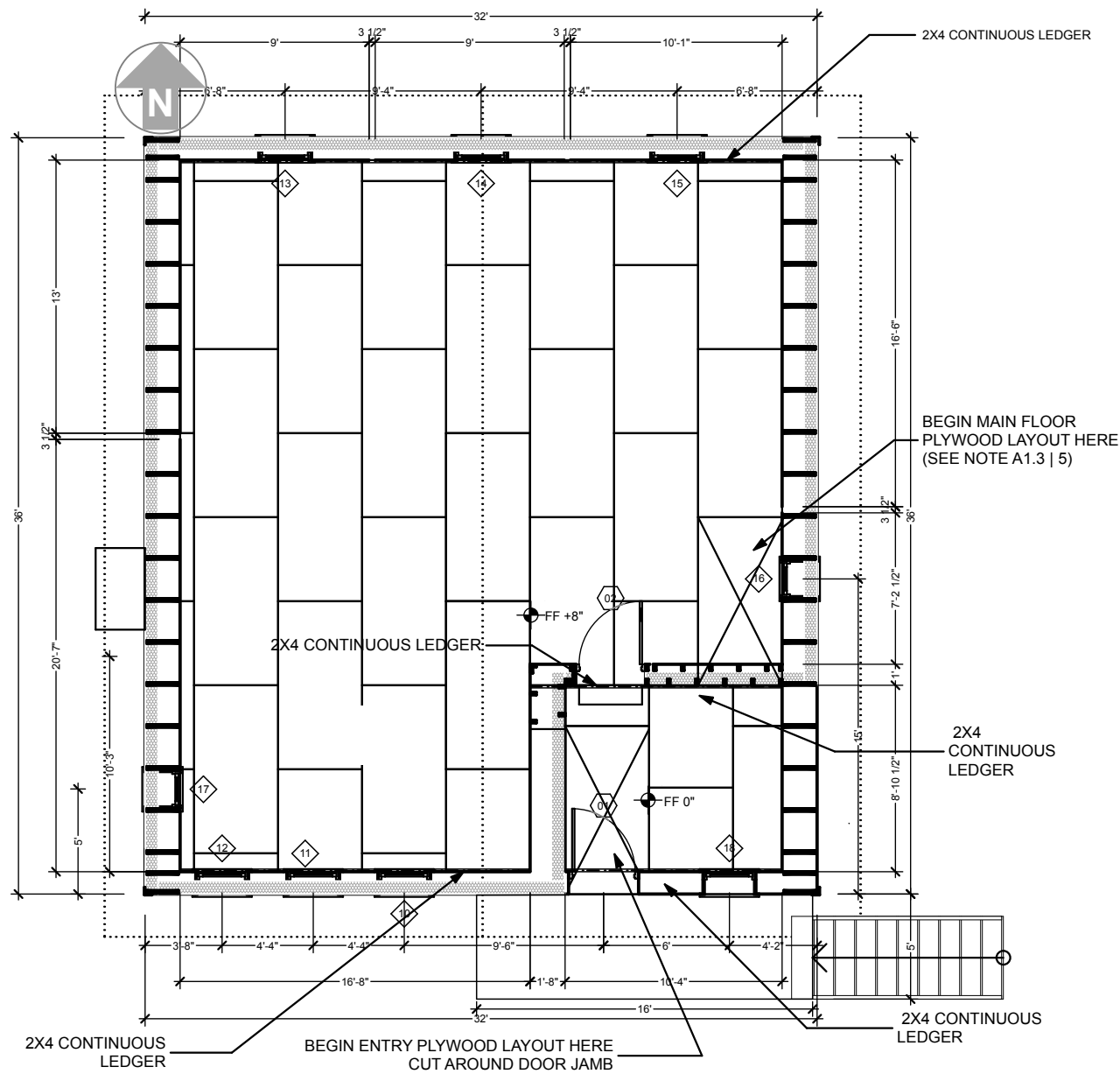
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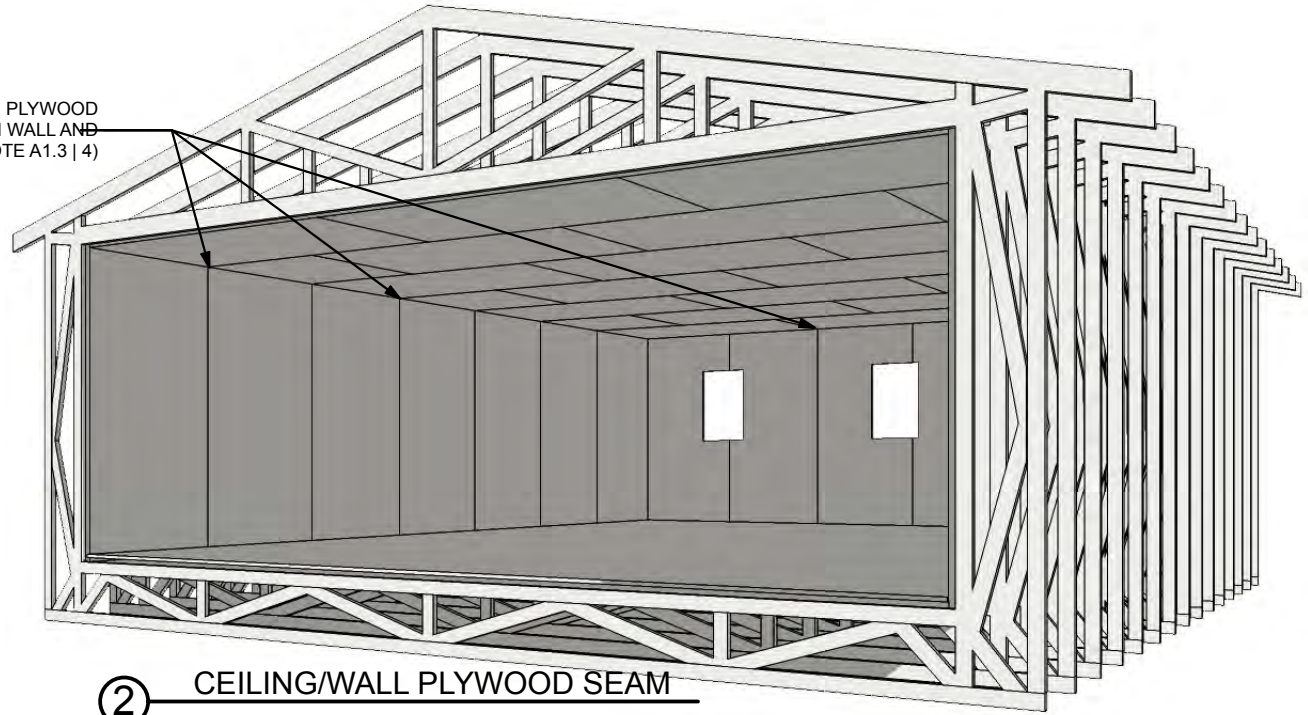
## NOTES

01. SPRAY-APPLIED POLYURETHANE INSULATION TO BE APPLIED FROM THE INTERIOR OF THE BUILDING TO THE BACK SIDE OF THE PLYWOOD IN THE ENTRY. ENTRY WILL NOT BE INSULATED. PLYWOOD MUST BE CONTINUOUS BACKING FOR FOAM APPLICATION FROM ROOF TO FLOOR
02. SPRAY FOAM MUST BE STORED IN A HEATED SPACE PRIOR TO APPLICATION. BELOW FREEZING TEMPERATURES WILL DAMAGE THE MATERIAL
03. EMPTY SPRAY FOAM BARRELS MUST NOT BE REUSED. CREW WILL DESTROY RED BARRELS SO THEY ARE NOT REUSED AS WATER CONTAINERS OR BURN BARRELS AFTER CONSTRUCTION
04. PLYWOOD SEAMS ON WALLS MUST BE CONTINUOUS WITH PLYWOOD SEAMS ALONG THE CEILING
05. DEPENDING ON METHOD CHOSEN FOR INSTALLING SPRAY-FOAM, PLYWOOD LAYOUT MAY BE SUBJECT TO CHANGE



1 PLYWOOD LAYOUT (SPRAY UP METHOD)  
SCALE: 1/8" = 1'-0"

CONTINUOUS PLYWOOD SEAM BETWEEN WALL AND CEILING (SEE NOTE A1.3 | 4)



VERTICAL BLOCKING FOR BETWEEN TRUSSES TO ACT AS SURFACE FOR SPRAY FOAM

CUT PLYWOOD FLUSH WITH TOP CHORD

2X4 CONTINUOUS LEDGER

2X4 CONTINUOUS LEDGER

POLYUREA FLOOR COATING IN ENTRY SPRAYED BY FOAM APPLICATOR

3 ENTRY PLYWOOD LAYOUT  
NOT TO SCALE

## General Notes

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PLYWOOD LAYOUT

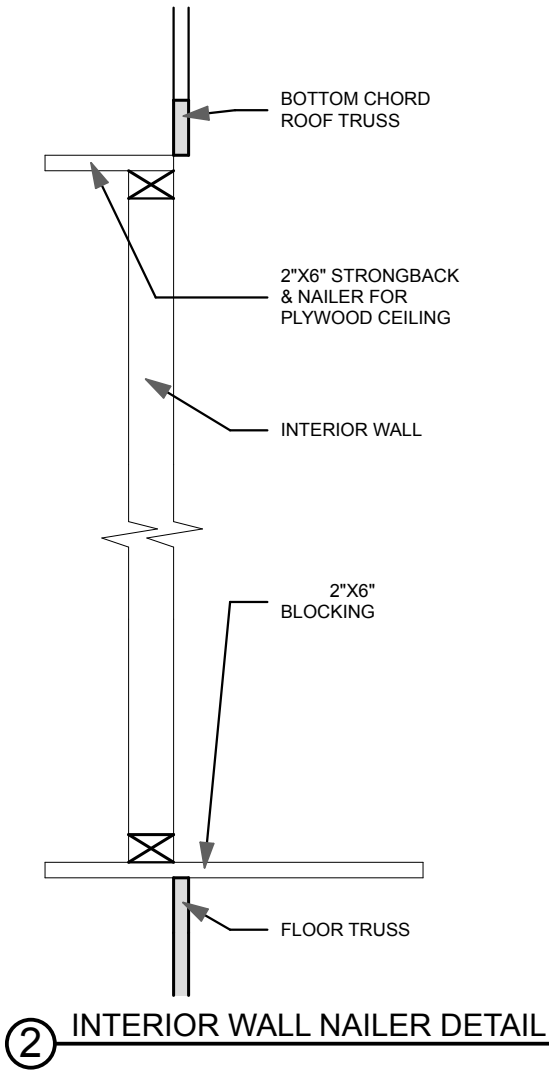
A1.2

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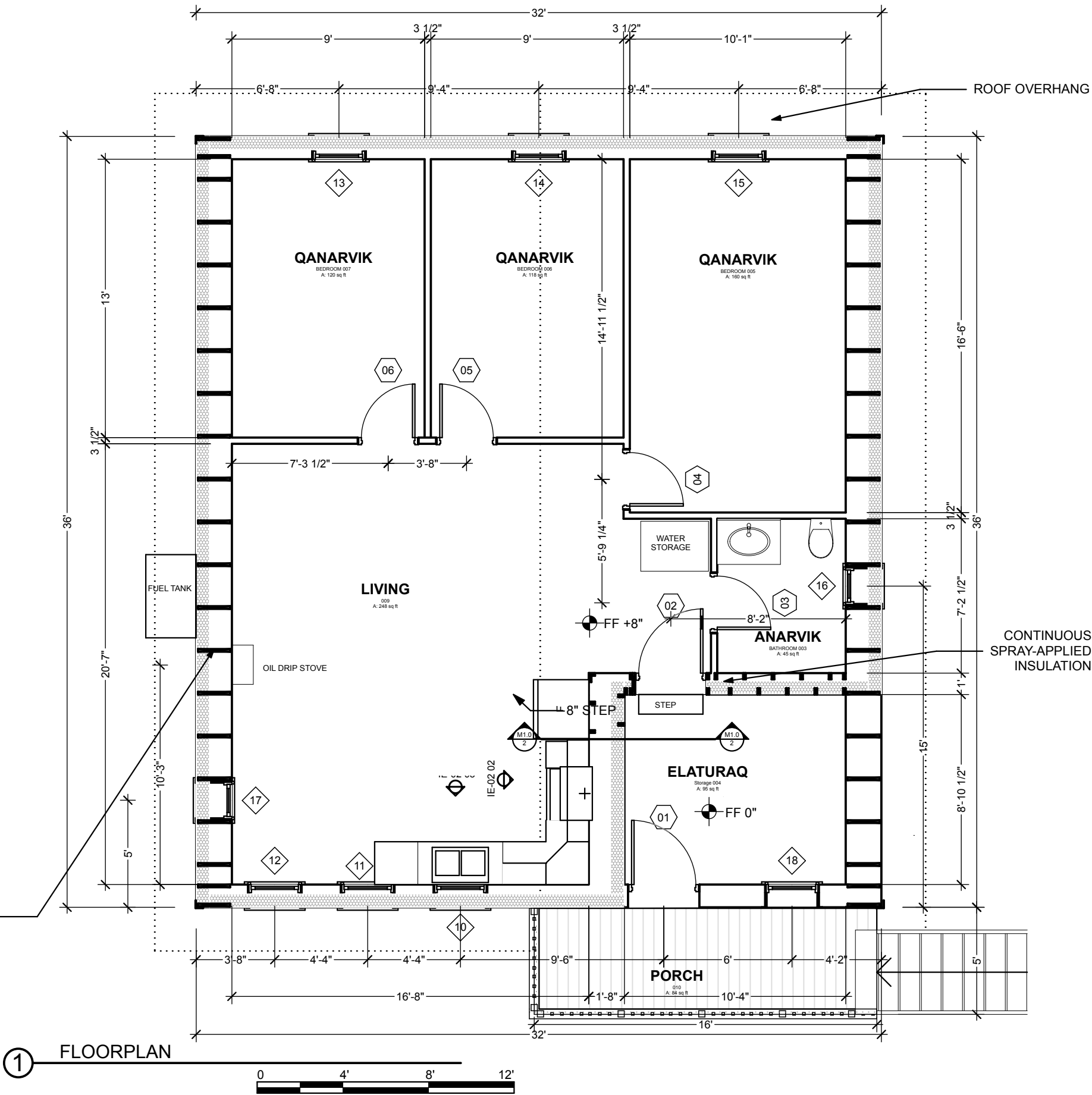


NOTE

SITE CONDITIONS WILL VARY. PREFERRED ORIENTATION FOR SOLAR GAIN AND NATURAL LIGHTING IN LIVING SPACE IS SHOWN



BLOCKING FOR FUEL STAND  
TO BE CONSTRUCTED BEFORE  
THE METAL SIDING IS ATTACHED



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NEWTOK DEMONSTRATION HOME

FOR THE COMMUNITY OF NEWTOK

NEWTOK, ALASKA

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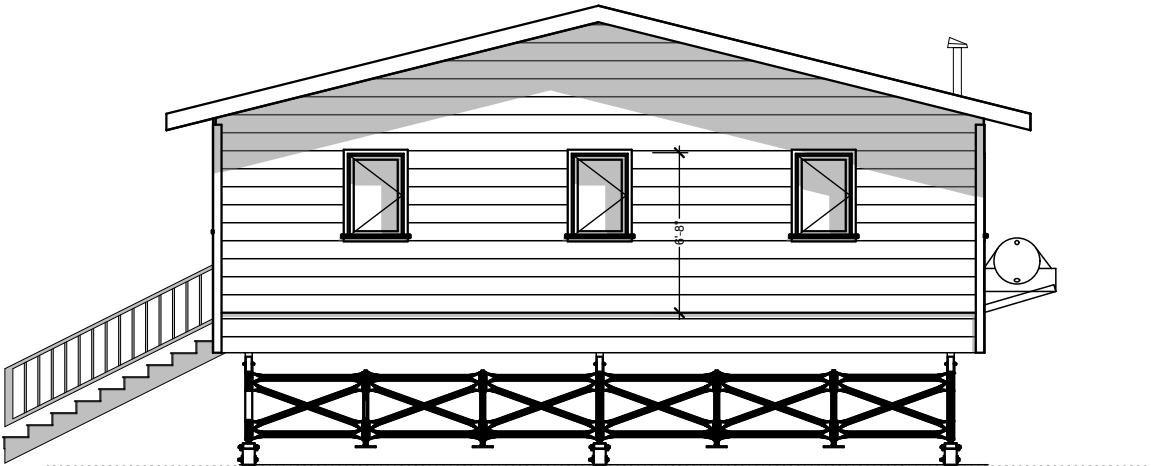
NOTES

SITE CONDITIONS WILL VARY. PREFERRED ORIENTATION FOR SOLAR GAIN AND NATURAL LIGHTING IN LIVING SPACE IS SHOWN

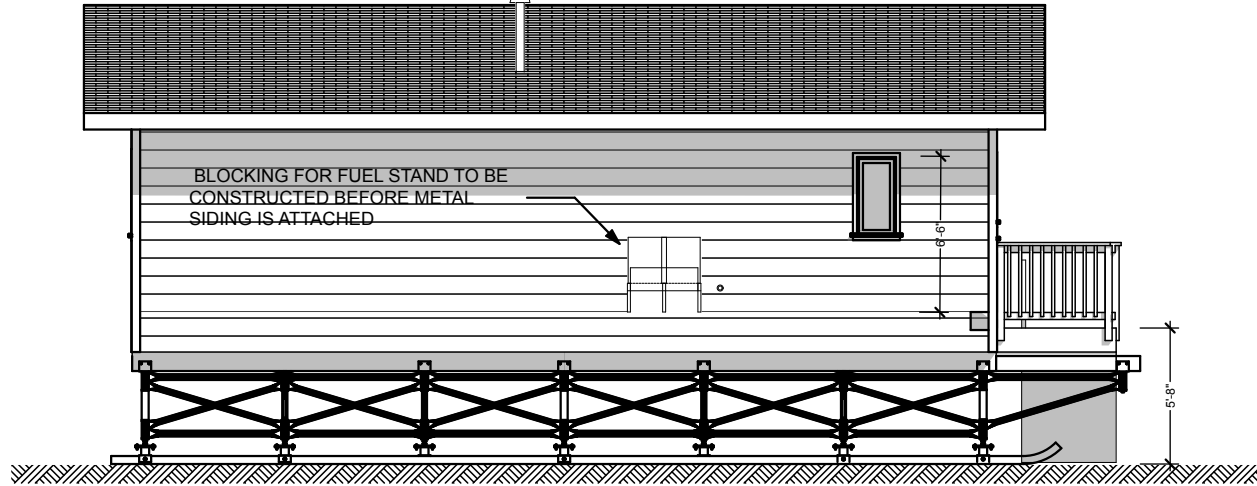
IF CONSTRUCTED IN NEWOK, THE DEMONSTRATION HOME FOUNDATION WILL BE CONSTRUCTED ON A DURABASE PAD. IF CONSTRUCTED IN MERTARVIK, A COMPACTED GRAVEL PAD WITH POSITIVE DRAINAGE WILL BE USED



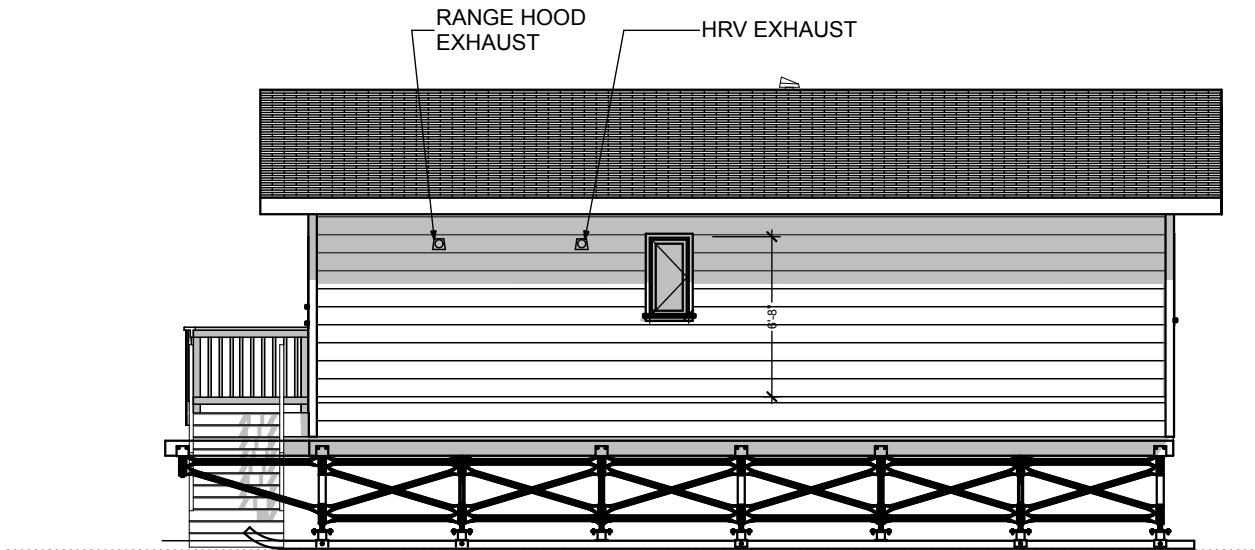
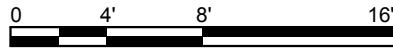
① SOUTH ELEVATION



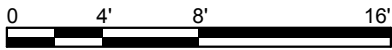
① NORTH ELEVATION



② WEST ELEVATION



④ EAST ELEVATION



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RECORD DRAWINGS

ELEVATIONS

A2.0

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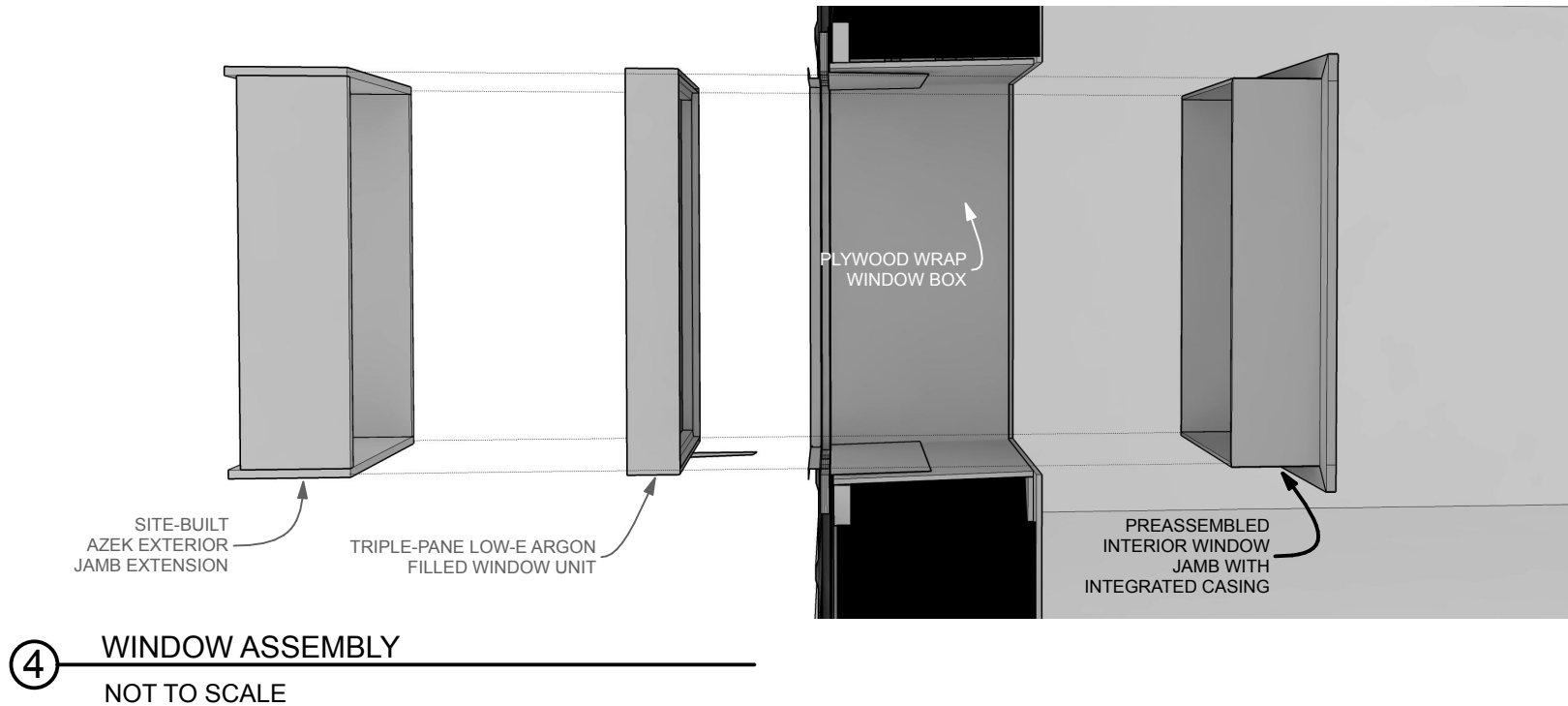
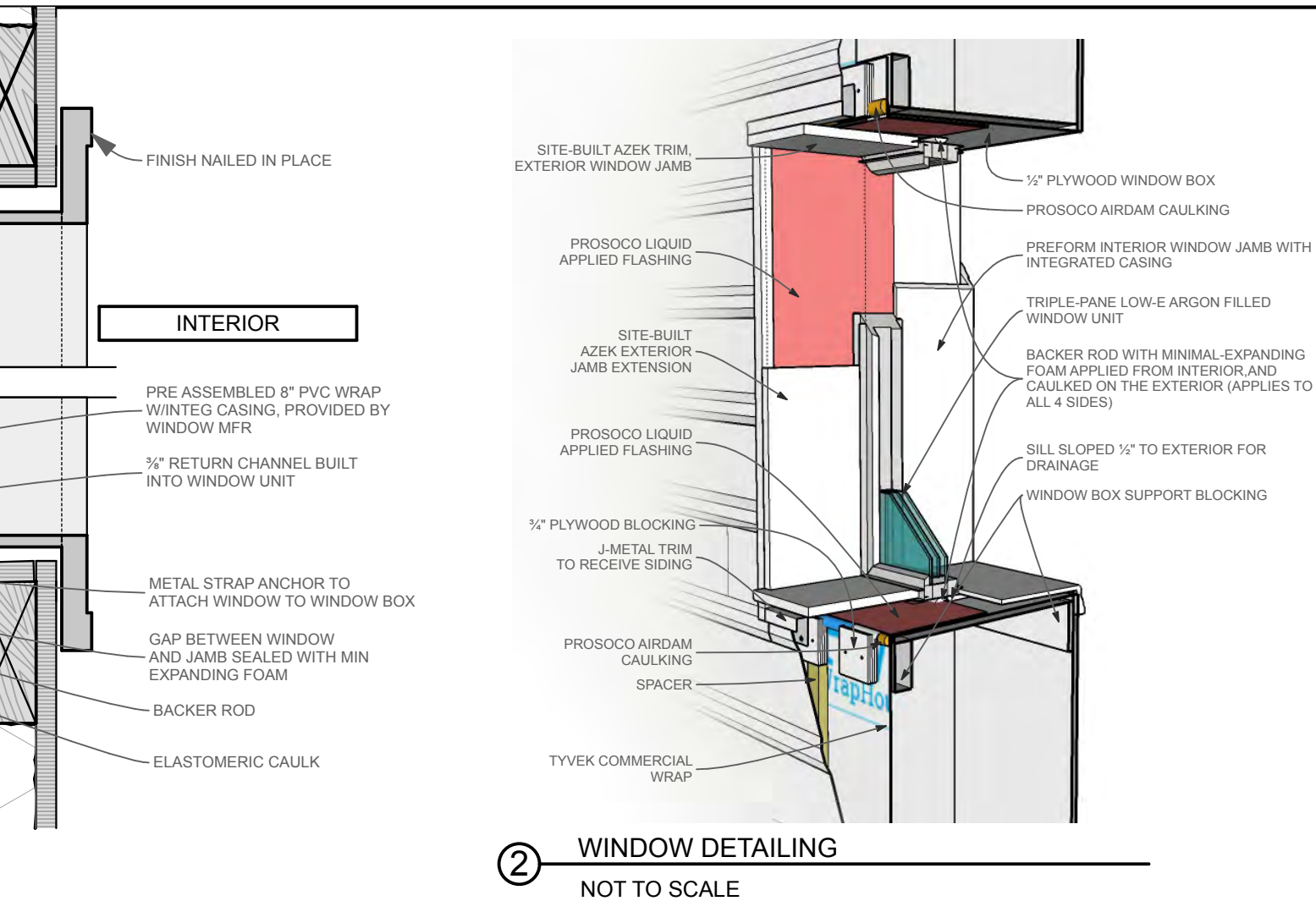
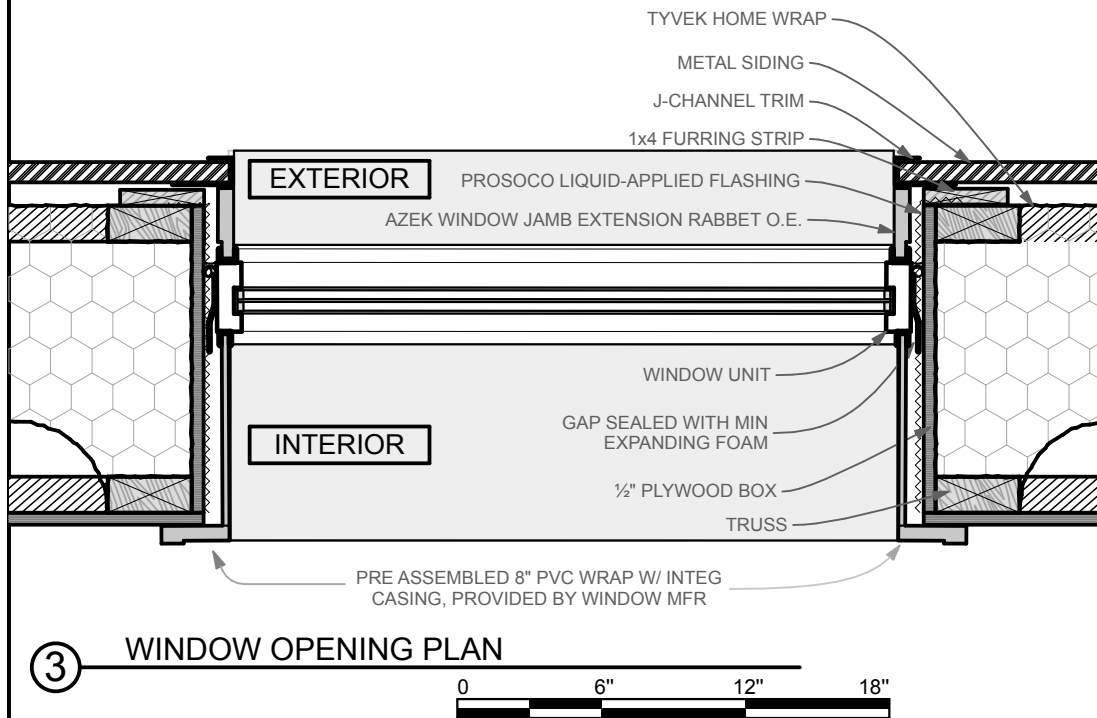
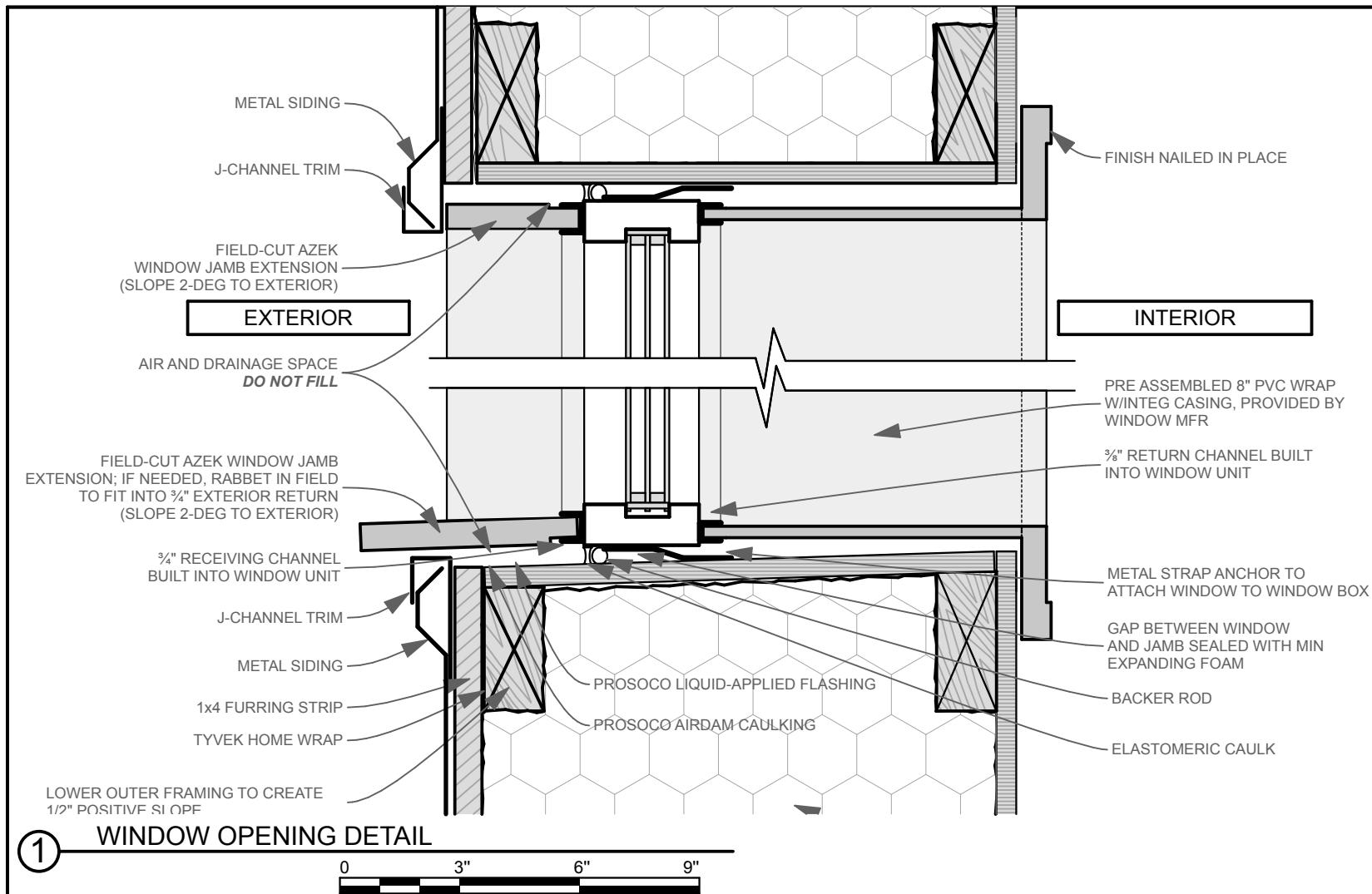


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9/7/16

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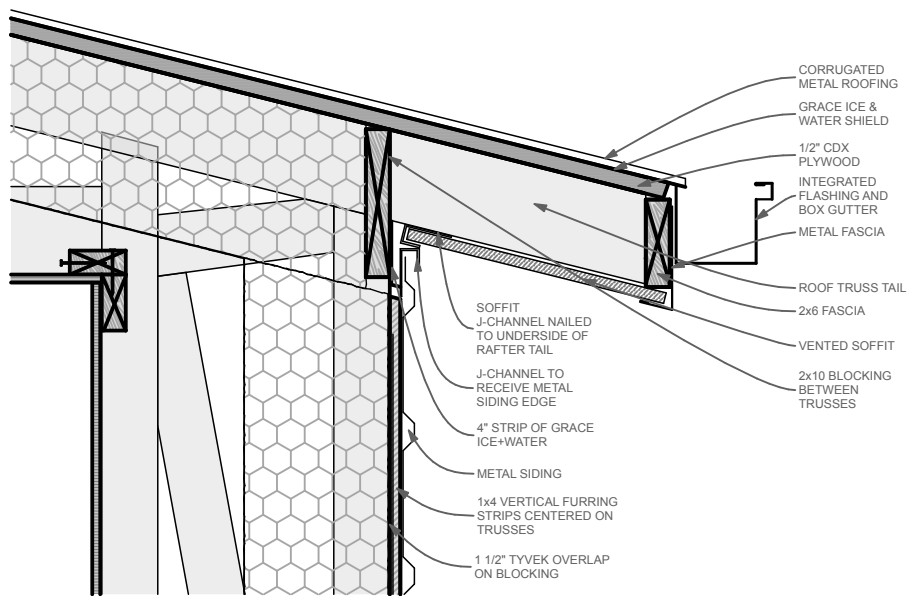
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WINDOW DETAILS	
A4.0	
SHEET	OF

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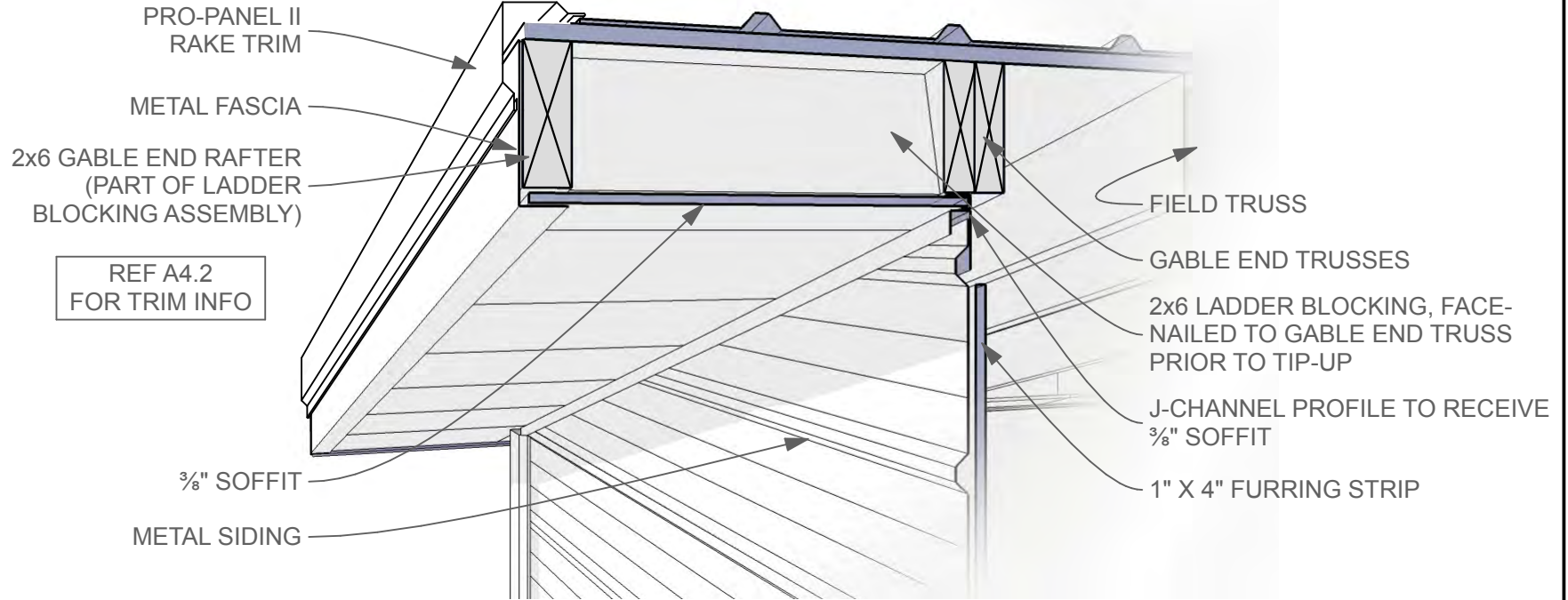
9/7/16

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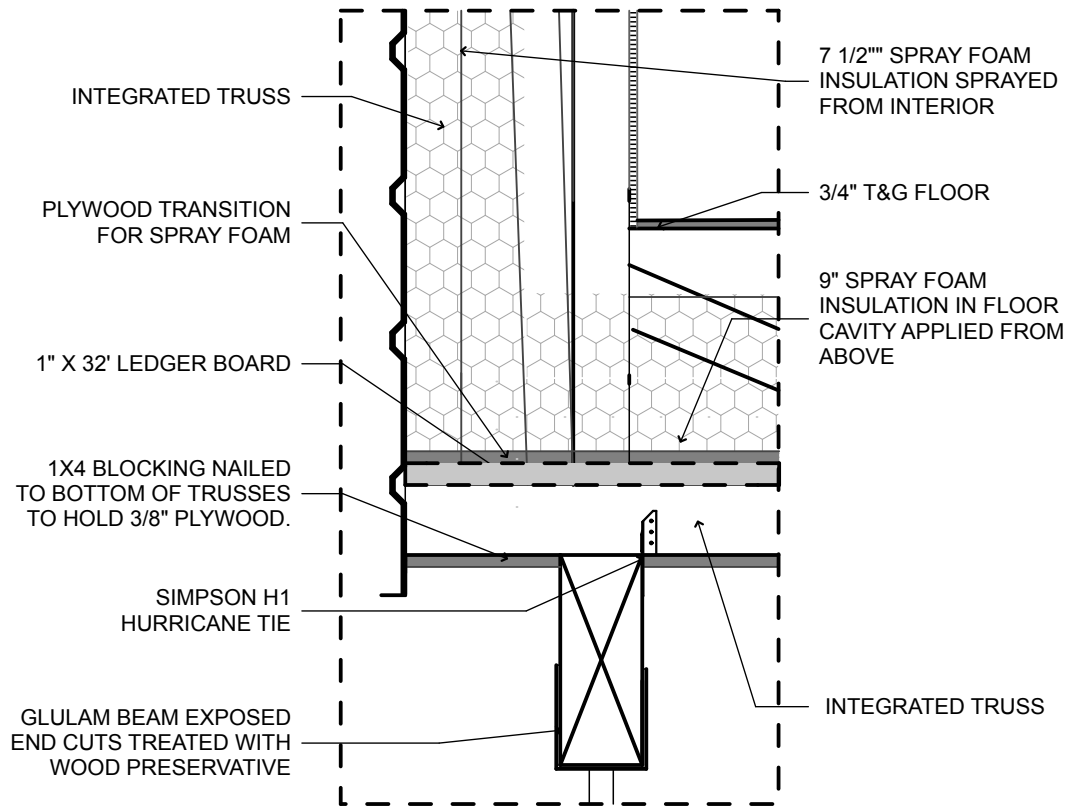
① EAVE SOFFIT DETAIL

0 6" 1' 2'



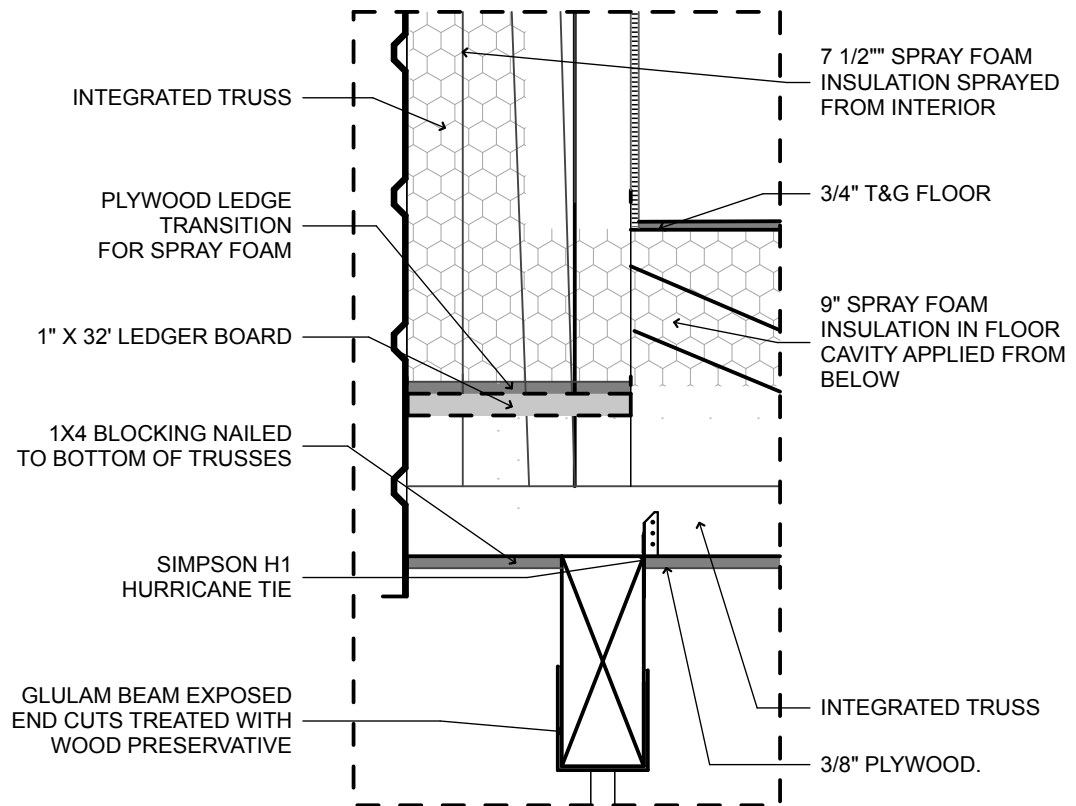
② SOFFIT DETAIL AT GABLE END

NOT TO SCALE



③ PLYWOOD TRANSITION FOR FOAM APPLICATION (SPRAY DOWN METHOD)

0 6" 1' 2'



④ PLYWOOD TRANSITION FOR FOAM APPLICATION (SPRAY UP METHOD)

0 6" 1' 2'

General Notes

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DRAWN BY: Haley Nelson

No. Rev/Issue 9/7/16

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NEWTOK DEMONSTRATION HOME

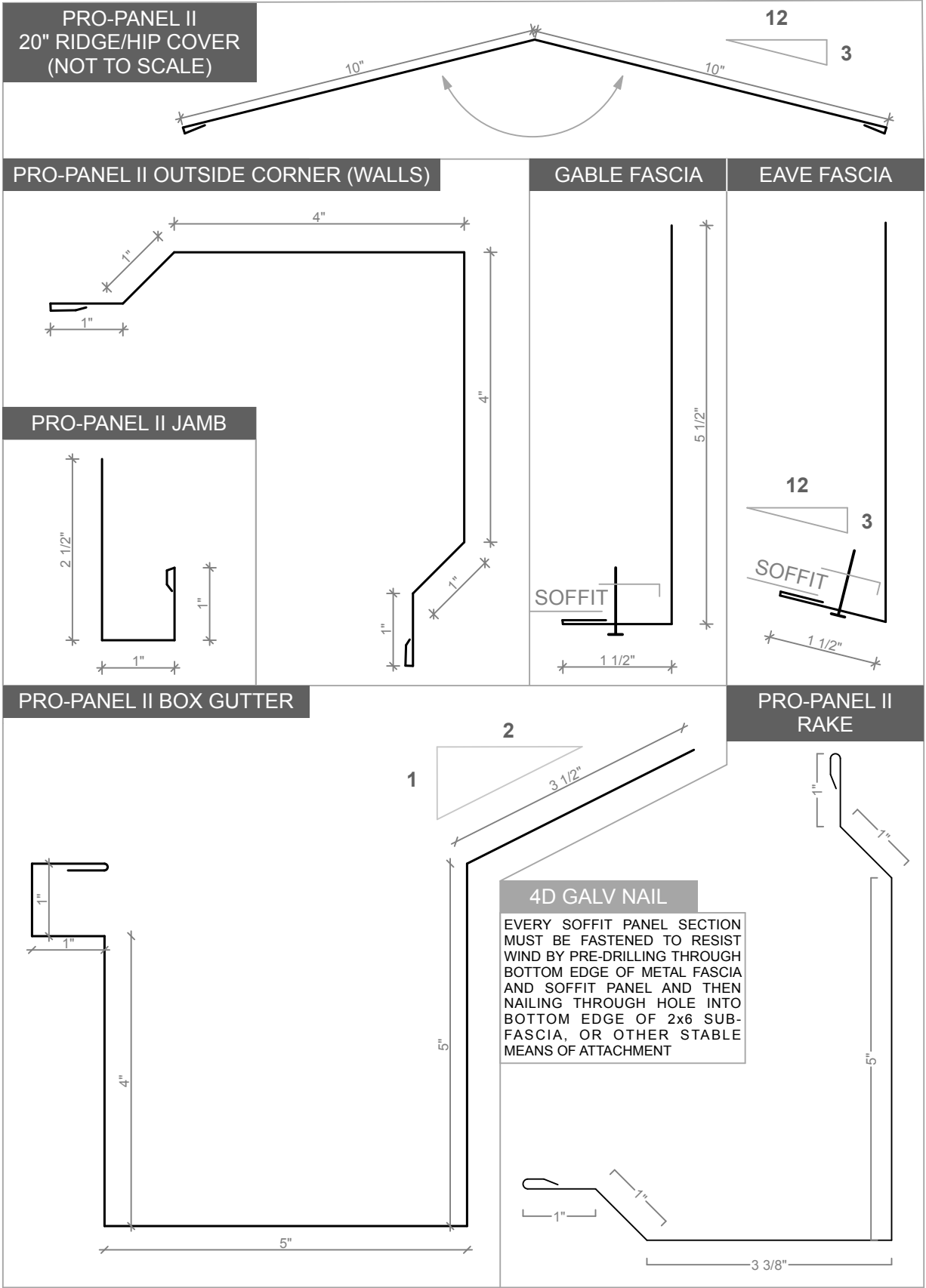
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RECORD DRAWINGS

WALL AND ROOF  
DETAILS

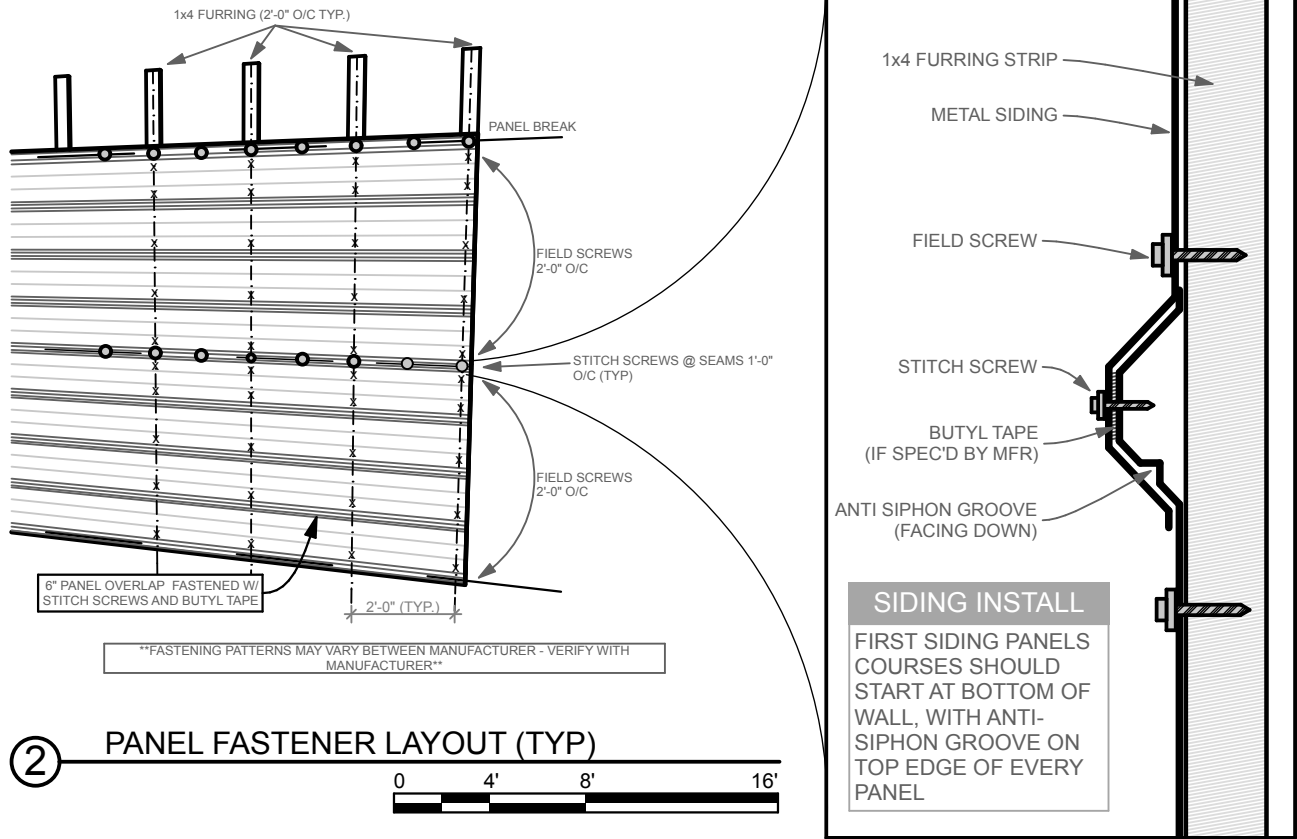
A4.1

SHEET OF





① EXTERIOR METAL TRIM  
NOT TO SCALE



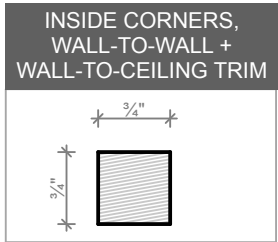
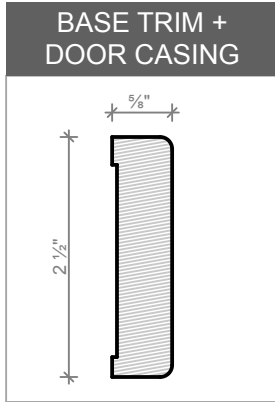
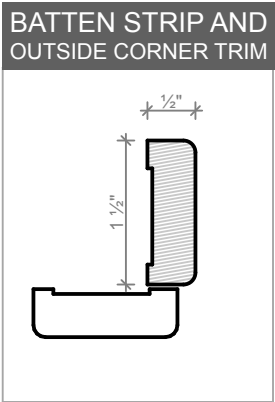
② PANEL FASTENER LAYOUT (TYP)

③ METAL PANEL LAP

INTERIOR WOOD TRIM INSTALLATION SEQUENCE:

- PREFINISH:** VARNISH ALL TRIM WITH SATIN WATER-BASED FINISH BEFORE INSTALLATION; MIN 2-COATS
- STEP 1:** INSTALL WALL-TO-CEILING INSIDE-CORNER TRIM
- STEP 2\*:** INSTALL WALL-TO-WALL INSIDE CORNER TRIM, BUTTED AGAINST WALL TO CEILING TRIM
- STEP 3:** INSTALL BASE TRIM AND DOOR CASINGS, BUTT BASE TRIM AGAINST WALL-TO-WALL INSIDE CORNER TRIM
- STEP 4:** INSTALL BATTEN STRIPS AND OUTSIDE CORNER TRIM

\* WALL-TO-WALL INSIDE CORNER TRIM IS 8'-0" LONG AND MUST BUTT AGAINST INSIDE CORNER WALL-TO-CEILING TRIM (IF WALL-TO-WALL INSIDE CORNER TRIM IS INSTALLED FIRST IT WILL BE TOO SHORT)



NOTE: DIMENSIONS FOR WOOD TRIM ARE APPROXIMATE, HOWEVER ROUND-OVERS MUST BE 1/8"

④ INTERIOR WOOD TRIM

General Notes			
DESIGNED BY: SNC			
DRAWN BY: Haley Nelson			
No.	Rev/Issue	9/7/16	

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PROJECT  
NEWTOK DEMONSTRATION HOME

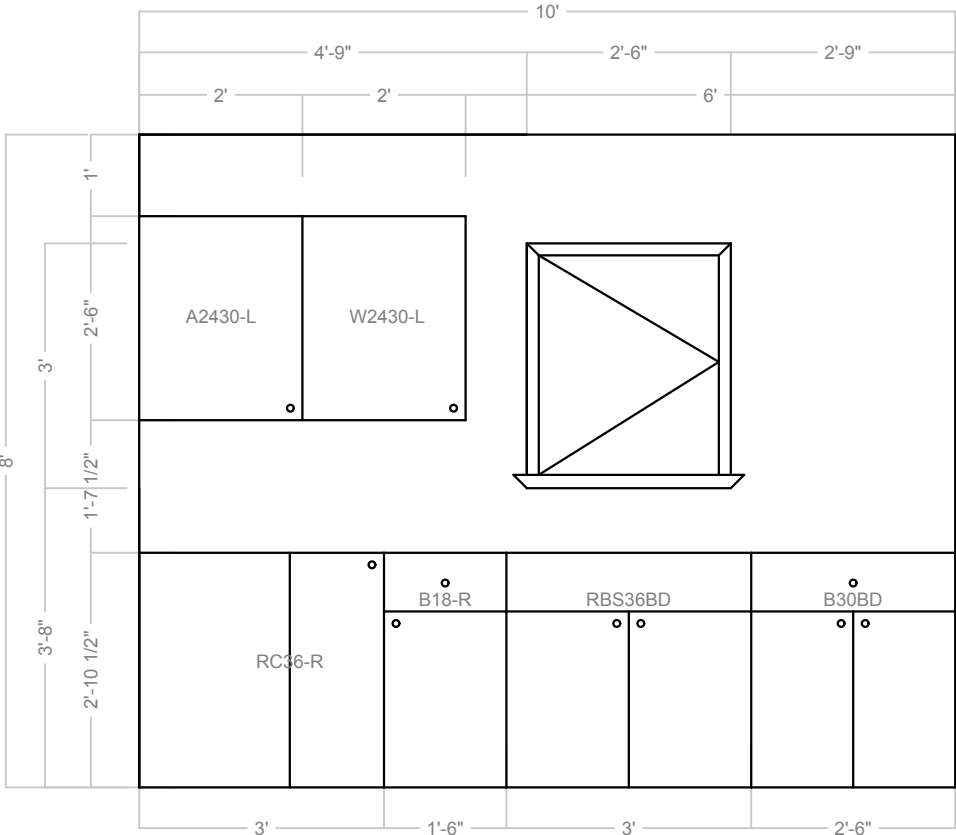
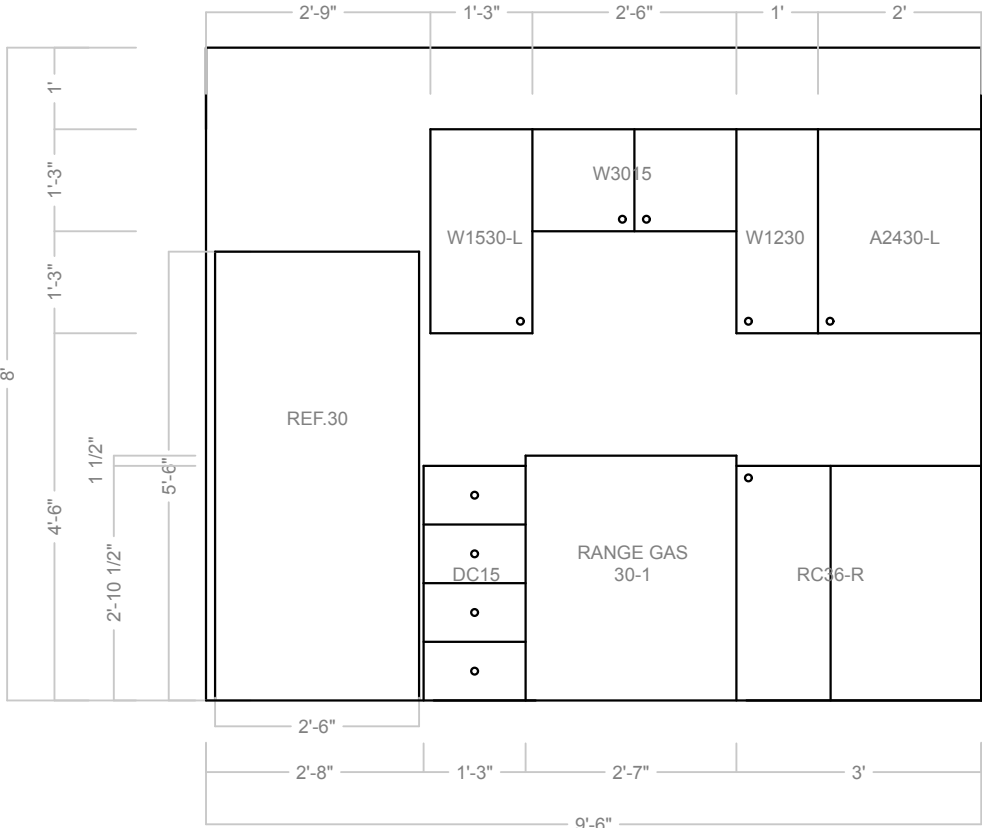
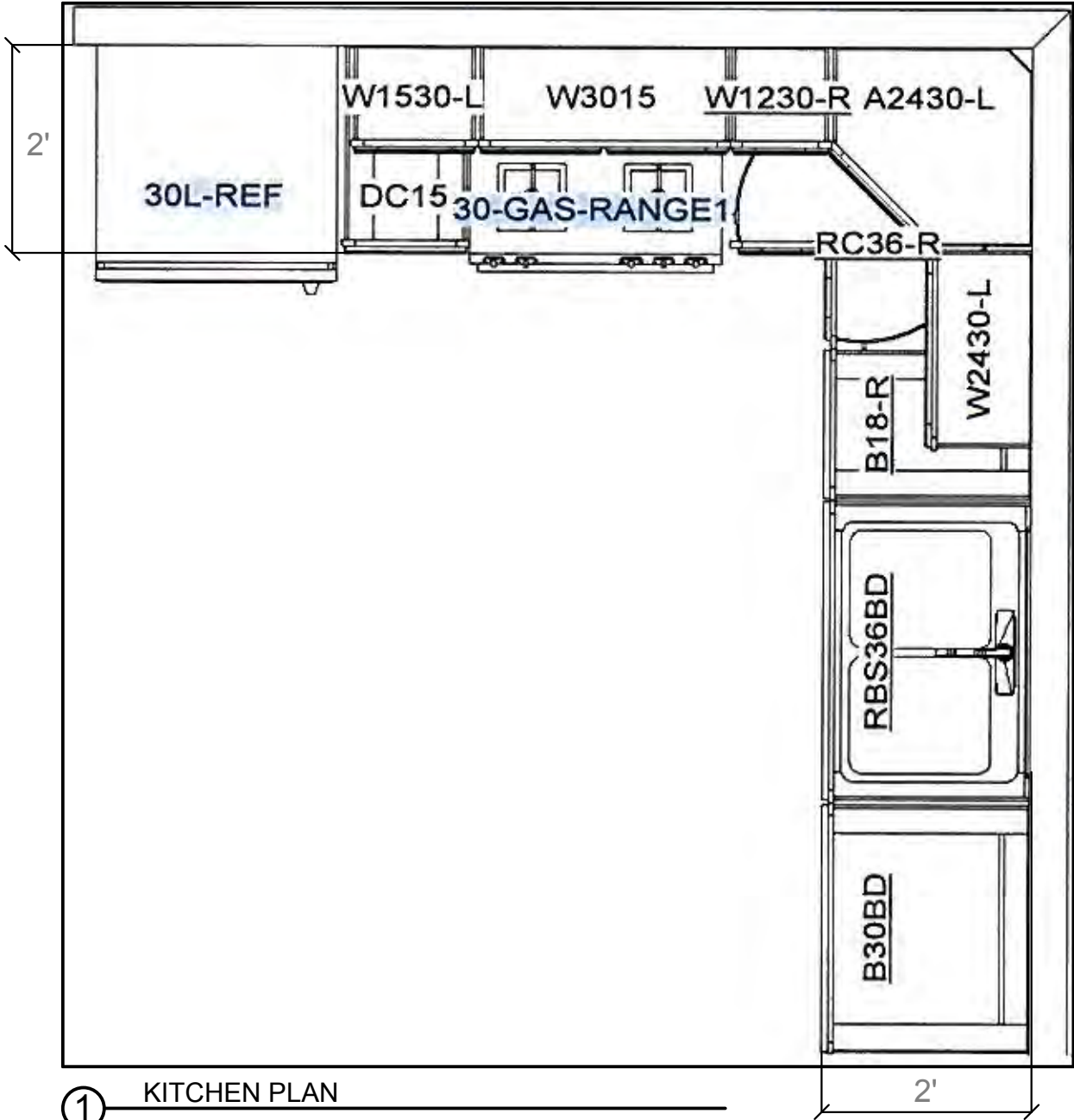
FOR THE COMMUNITY OF NEWTOK  
NEWTOK, ALASKA  
ISSUED  
2nd September 2015  
RECORD DRAWINGS

TRIM DETAILS	
A4.2	
SHEET	OF

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NOTES

HORIZONTAL BLOCKING TO BE  
INSTALLED BEHIND CABINETS  
PRIOR TO SHEATHING IN AC  
PLYWOOD



General Notes

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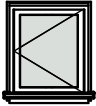
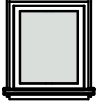

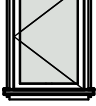
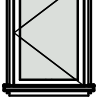
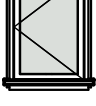
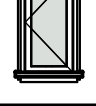
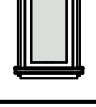

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NEWTOK DEMONSTRATION HOME

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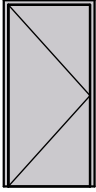
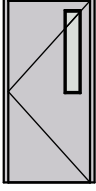
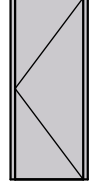
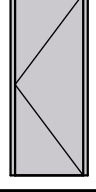
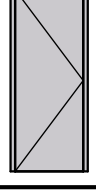
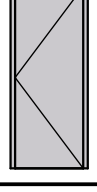
KITCHEN DETAILS

A4.3

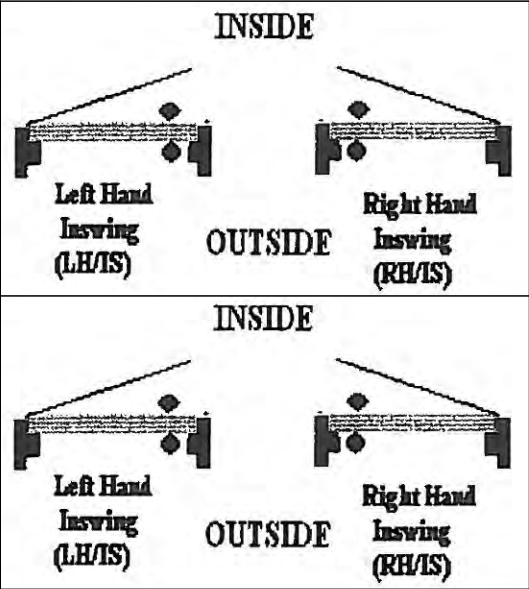
SHEET OF

WINDOW SCHEDULE						
LABEL	TYPE	WIDTH	HEIGHT	R.O.	OPEN DIRECTION	FRONT VIEW
10	PVC casement Triple glazed with Argon gas and buck extension as per specifications	2'-5"	2'-11"	2'-6" x 3'-1"	Right	
11	PVC casement Triple glazed with Argon gas and buck extension as per specifications	2'-5"	2'-11"	2'-6" x 3'-1"	Fixed	
12	PVC casement Triple glazed with Argon gas and buck extension as per specifications	2'-5"	2'-11"	2'-6" x 3'-1"	Fixed	
13	PVC casement Triple glazed with Argon gas and buck extension as per specifications	2'-5"	3'-7 1/4"	2'-6" x 3'-9"	Right	
14	PVC casement Triple glazed with Argon gas and buck extension as per specifications	2'-5"	3'-7 1/4"	2'-6" x 3'-9"	Right	
15	PVC casement Triple glazed with Argon gas and buck extension as per specifications	2'-5"	3'-7 1/4"	2'-6" x 3'-9"	Right	
16	PVC casement Triple glazed with Argon gas and buck extension as per specifications	1'-8 1/2"	3'-5"	1'-9 1/2" x 3'-7"	Right	
17	PVC casement Triple glazed with Argon gas and buck extension as per specifications	1'-8 1/2"	3'-5"	1'-9 1/2" x 3'-7"	Right	
18	PVC casement Triple glazed with Argon gas and buck extension as per specifications	2'-5"	3'-7 1/4"	2'-6" x 3'-9"	Fixed	

1 WINDOW SCHEDULE  
NOT TO SCALE

DOOR SCHEDULE								
DOOR NO.	TYPE	WIDTH	HEIGHT	R.O.	WALL THICKNESS	SWING	HARDWARE	FRONT VIEW
01	FIBER GLASS INSULATED DOOR	3'	6'-8"	3'-2" X 6'-10"	1'-8-1/2" PLUS METAL	LHIS	DEADBOLT AND KEYED LOCK	
02	FIBER GLASS INSULATED DOOR	3'	6'-8"	3'-2" X 6'-10"	1'1"	RHIS	KEYED LOCK	
03	SOLD CORE INTERIOR DOOR	2'-6"	6'-8"	2'-8" X 6'-10"	4-1/2"	RHIS	PASSAGE LOCK	
04	SOLD CORE INTERIOR DOOR	2'-6"	6'-8"	2'-8" X 6'-10"	4-1/2"	RHIS	PASSAGE LOCK	
05	SOLD CORE INTERIOR DOOR	2'-6"	6'-8"	2'-8" X 6'-10"	4-1/2"	LHIS	PASSAGE LOCK	
06	SOLD CORE INTERIOR DOOR	2'-6"	6'-8"	2'-8" X 6'-10"	4-1/2"	RHIS	PASSAGE LOCK	

2 DOOR SCHEDULE  
NOT TO SCALE



NOTES

UNDERCUT ALL BEDROOM DOORS 2" FOR RETURN AIR

ROUGH OPENING (R.O.) DESCRIBES THE INNER DIMENSIONS OF WINDOW BOX. WINDOW BOX WALLS ARE CONSTRUCTED WITH 1/2" PLYWOOD. OUTER DIMENSIONS ARE 1" LONGER IN BOTH WIDTH AND HEIGHT THAN R.O. DIMENSIONS.

General Notes		
DESIGNED BY: SNC		
DRAWN BY: Haley Nelson		
No.	Rev/Issue	9/7/16

COLD CLIMATE HOUSING RESEARCH CENTER



PROJECT  
NEWTOK DEMONSTRATION HOME

FOR THE COMMUNITY OF NEWTOK  
NEWTOK, ALASKA  
ISSUED  
2nd September 2015  
RECORD DRAWINGS



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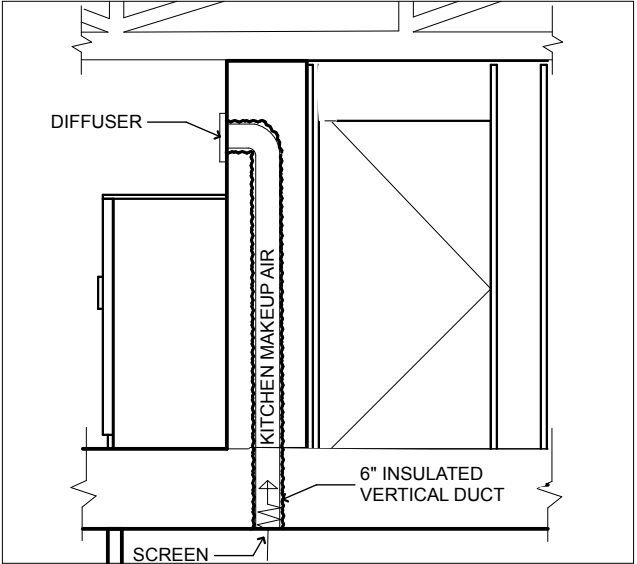
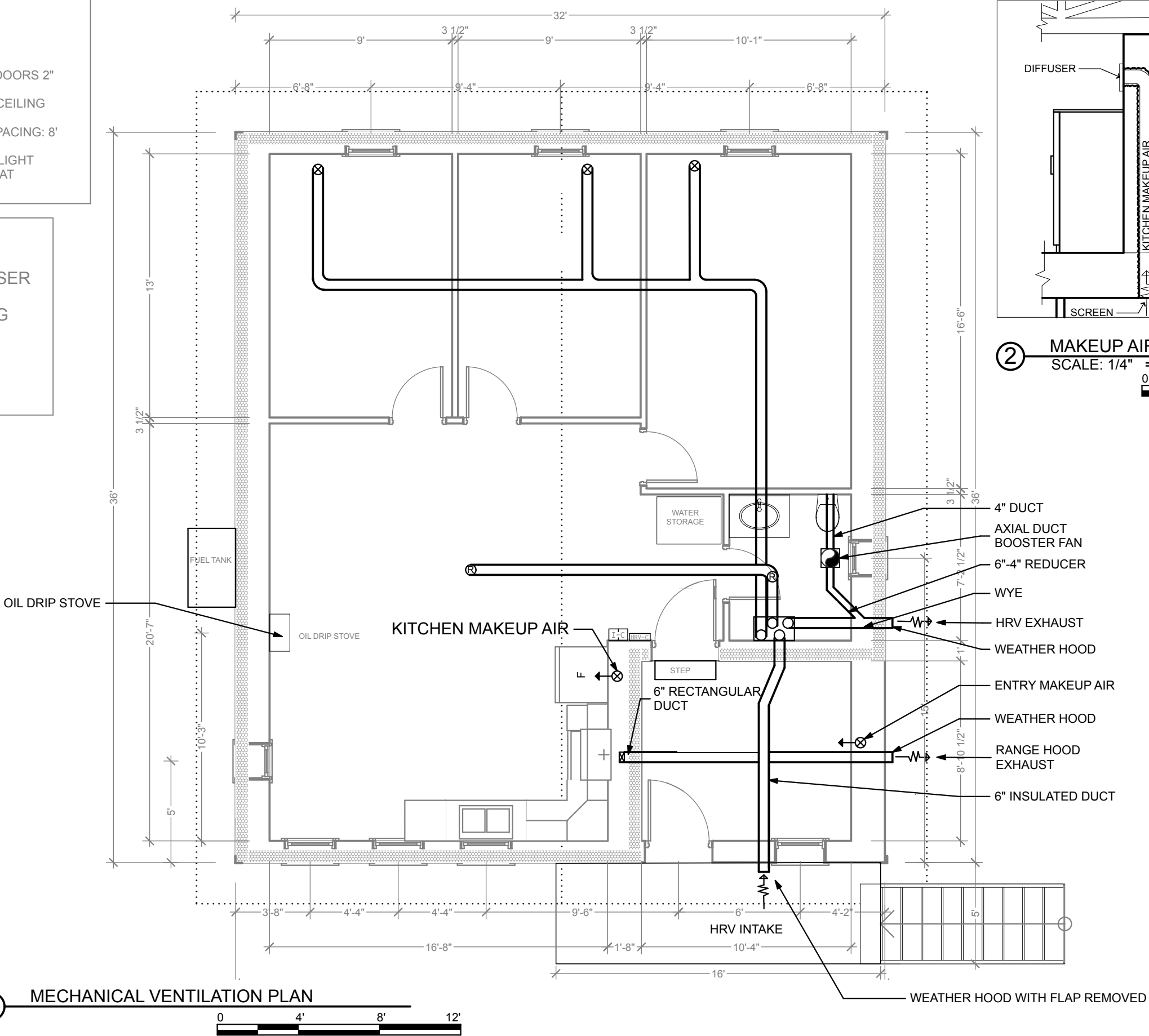


NOTES

1. VENMAR EKO HRV
2. UNDERCUT ALL BEDROOM DOORS 2"
3. ALL SUPPLY REGISTERS IN CEILING
4. MAXIMUM DUCT HANGER SPACING: 8'
5. HRV TO BE BALANCED TO SLIGHT (10CFM) POSITIVE PRESSURE AT COMMISSIONING

KEY

- Ⓡ RETURN AIR DIFFUSER
- ⊗ SUPPLY AIR CEILING
- ⊗ SUPPLY AIR WALL
- ↓ GRILLE DIRECTION



② MAKEUP AIR SECTION  
SCALE: 1/4" = 1'-0"  
0 2' 4' 8'

① MECHANICAL VENTILATION PLAN  
0 4' 8' 12'

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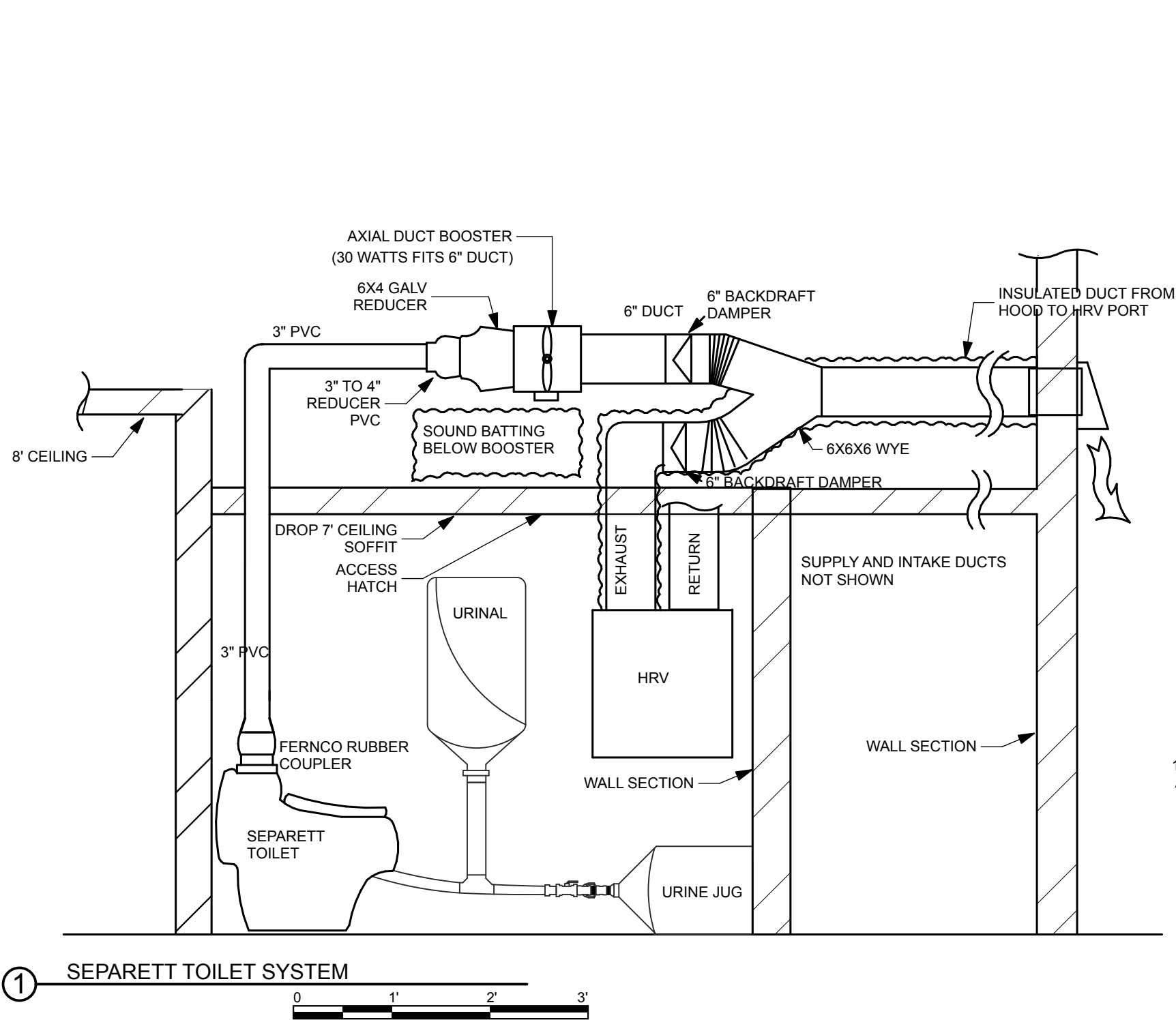
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MECHANICAL  
VENTILATION PLAN

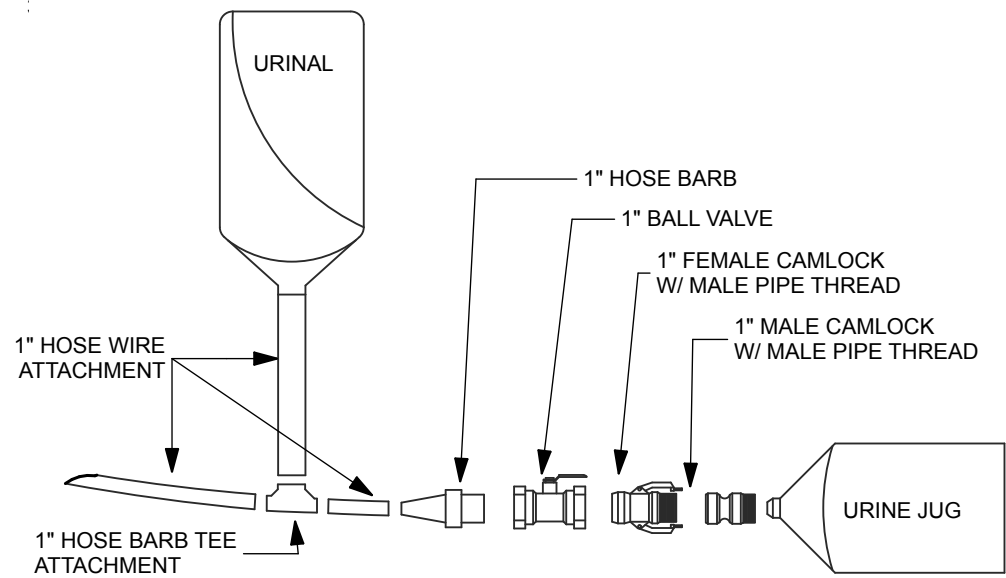
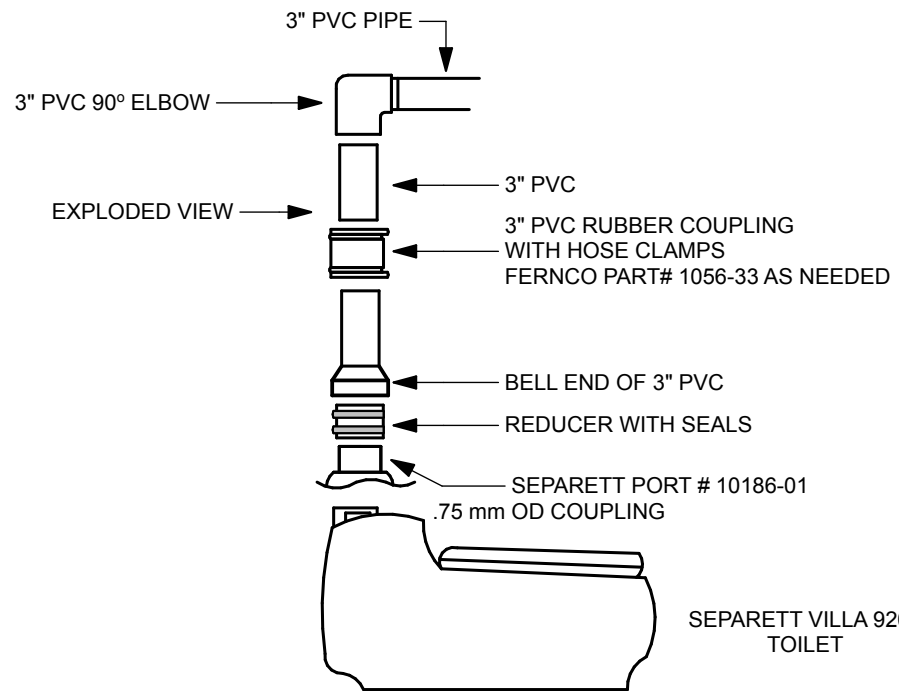
M1.0

SHEET OF



① SEPRETT TOILET SYSTEM

0 1' 2' 3'



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PROJECT

NEWTOK DEMONSTRATION HOME

FOR THE COMMUNITY OF NEWTOK

NEWTOK, ALASKA

ISSUED 2nd September 2015

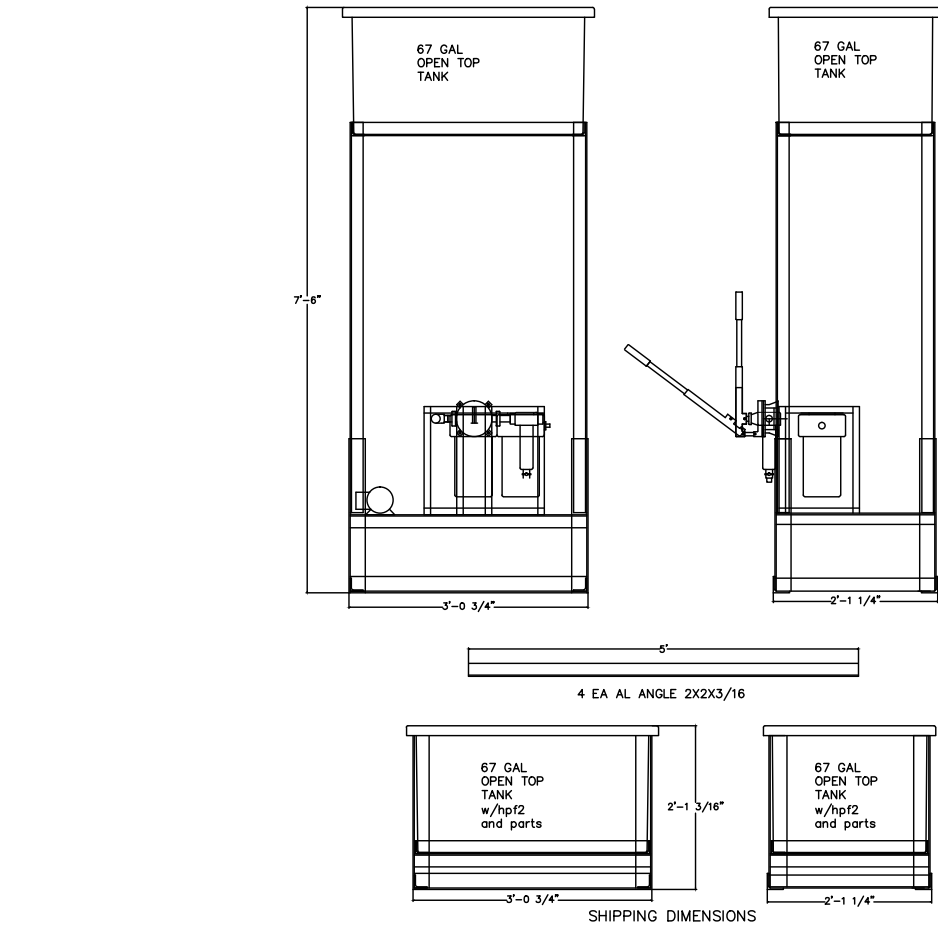
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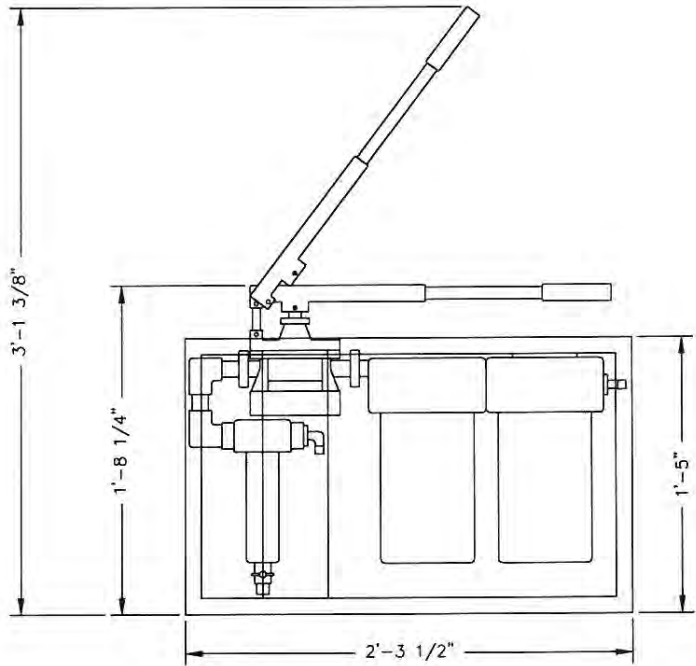
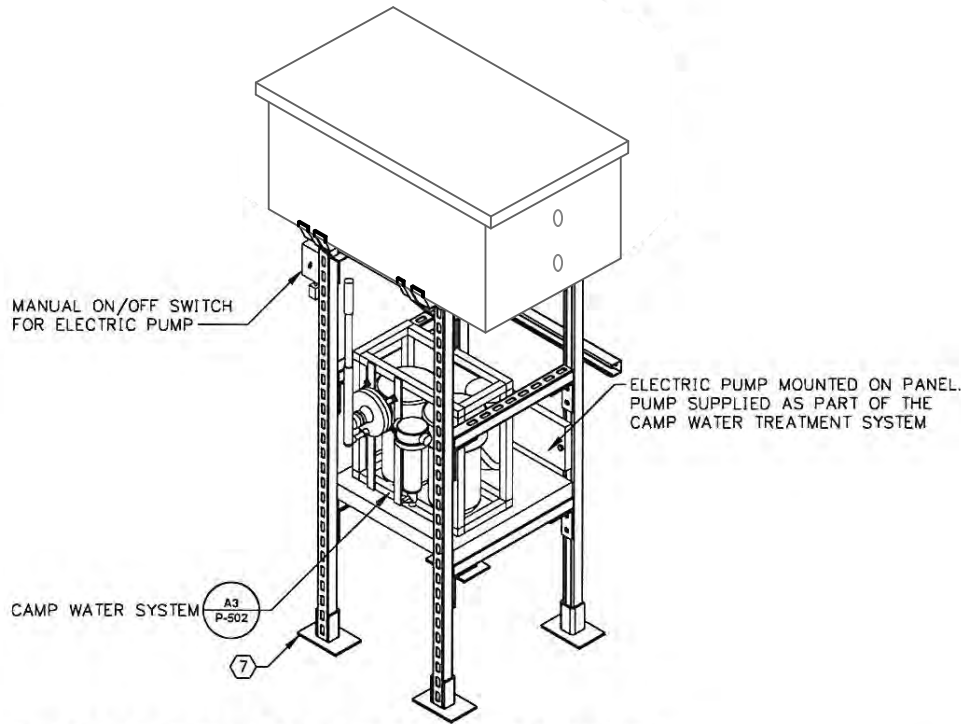
MECHANICAL SECTION	
M1.1	
SHEET	OF



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CampWater Industries LLC  
BOX 309, DELTA JCT, AK 99737 907-895-4304

TITLE		
CABINWATER SYSTEM OPTION #2		
DWN JWD	DATE/REV 12-27-2015	JOB NO.
SCALE	CUSTOMER CCHRC-ANTHC	REF/FILE NO.



- NOTES:
1. TOP OF TANK WILL VARY DEPENDING ON CEILING HEIGHT OF HOME.
  2. TANK STAND WILL BE PRE-MANUFACTURED PRIOR TO SHIPMENT.
  3. CAMPWATER SYSTEM AND TANK NSF 61.
  4. Laterally restrain tank using a minimum of 2 each galvanized steel straps.

MATERIAL LIST		
	DESCRIPTION	QTY
①	1 5/8" UNISTRUT 12 GA. PER FT	60
②	3/8" -16 x 1" BOLT (25/BOX)	3
③	3/8" NUT W/ SPRING EA	64
④	3/8" LOCK WASHER (100/BOX)	1
⑤	3/8" WASHER (100/BOX)	1
⑥	2" x 2" HOLE 90 BRACKET	8
⑦	POST BRACKET P2942	4
⑧	L BRACKET P1068	8
⑨	DRIP PAN 48" x 120"	1
⑩	3/4" MIP TO 1/2 SHARKBITE	2
⑪	1/2" SHARK BALL	1
⑫	1/2" SHARK TEE	1
⑬	1/2" SHARK TO 1/2" FEMALE	1
⑭	1/2" HOSE BIB	1
⑮	3/8" x 1 1/2" CARRIAGE BOLT (BOX 25)	1
⑯	3/8" SS FENDER WASHER	4
⑰	3/8" GALV. NUT	20
⑱	1/4" x 2 1/2" SS BOLT (BAG 2)	2
⑲	1/4" SS WING NUT	4
⑳	1/4" SS WASHER (BAG 6)	1
㉑	1" x 1/16" GALVANIZED STEEL STRAP, 2 EACH FASTENED TO STAND USING 1/4" x 2 1/2" HOT DIPPED GALVANIZED WITH WASHERS MINIMUM OF 2 EACH PER STRAPS 120 GAL	2
㉒	1/4" FENDER WASHER	
㉓	1/4" STRUT SPRING NUT	2
㉔	1/4" x 1" BOLT	5
㉕	1/4" LOCK WASHER	5
㉖	3/4" MIP TO 3/4" MH BRASS	1
㉗	3/4" MIP TO 5/8" BARB 90 PLASTIC	2
㉘	3/4" FH TO 3/4" FIP SWIVEL	1
㉙	7/8" HOSE CLAMP	3
㉚	5/8" ID VINYL REINFORCED TUBE	1
㉛	3/4" MIP TO 5/8" BARB BRASS	
㉜	3/4" STREET 90 BRZ NPT	

General Notes		
DESIGNED BY: SNC		
DRAWN BY: Haley Nelson		
No. Rev./Issue 9/7/16		

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PROJECT

NEWTOK DEMONSTRATION HOME

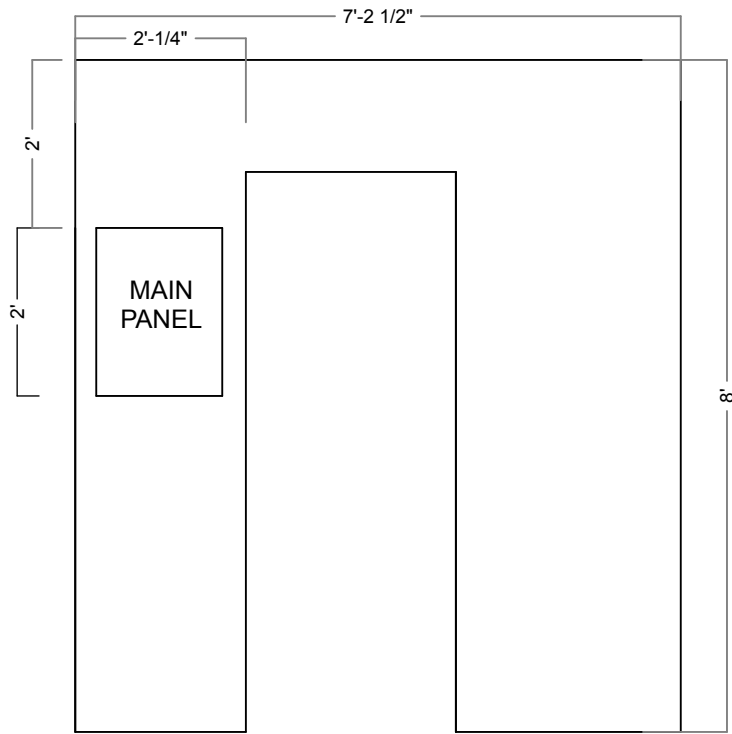
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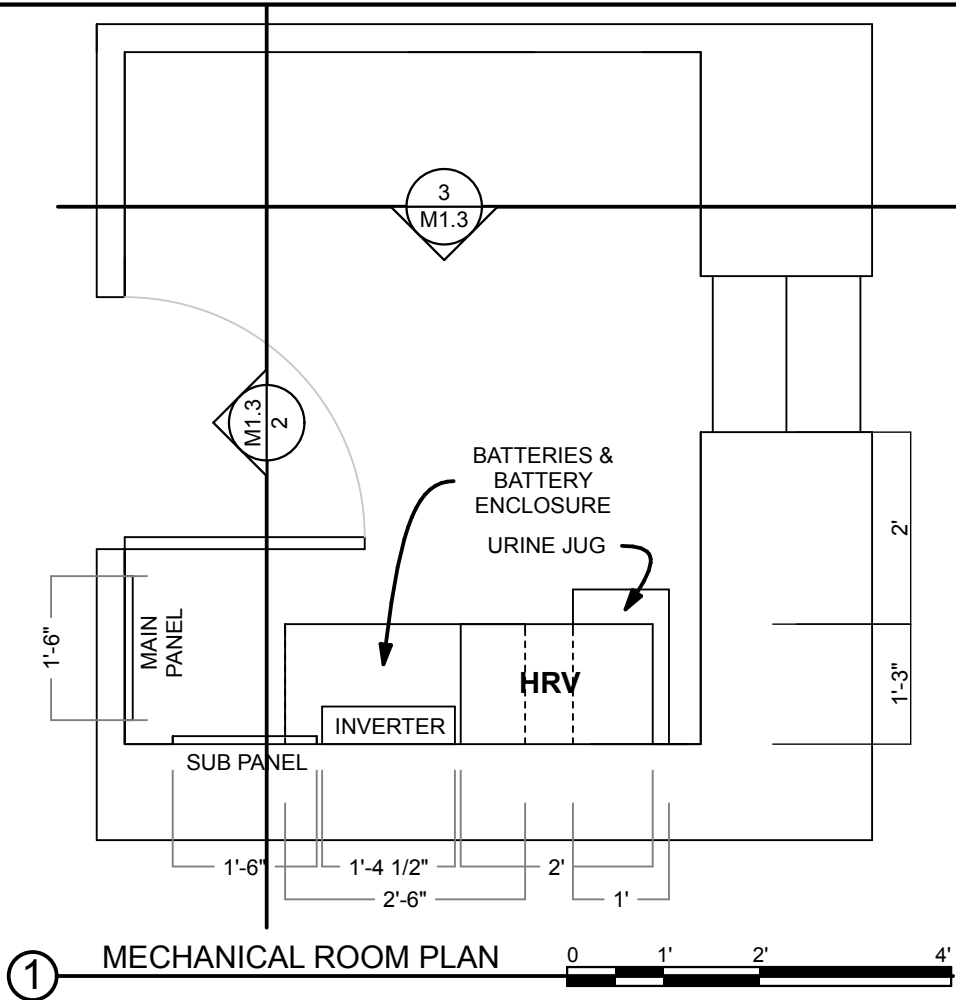
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SHEET	OF



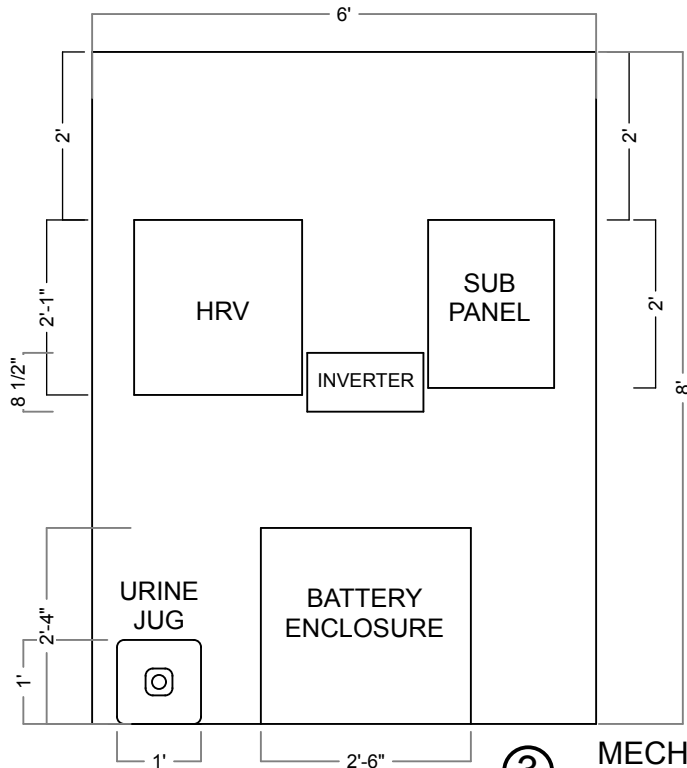
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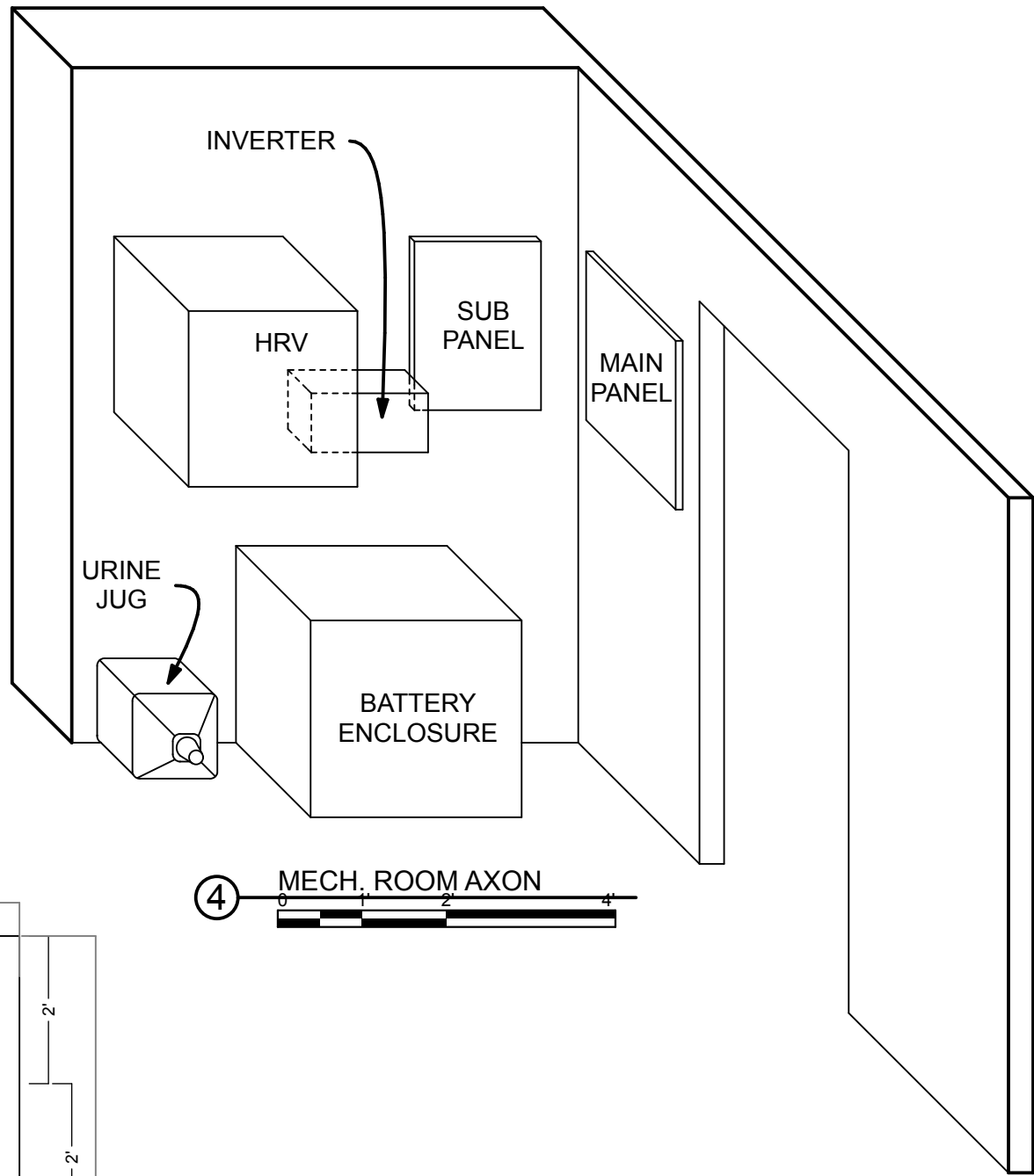
② MECH. ROOM ELEVATION



① MECHANICAL ROOM PLAN



③ MECH. ROOM ELEVATION



④ MECH. ROOM AXON

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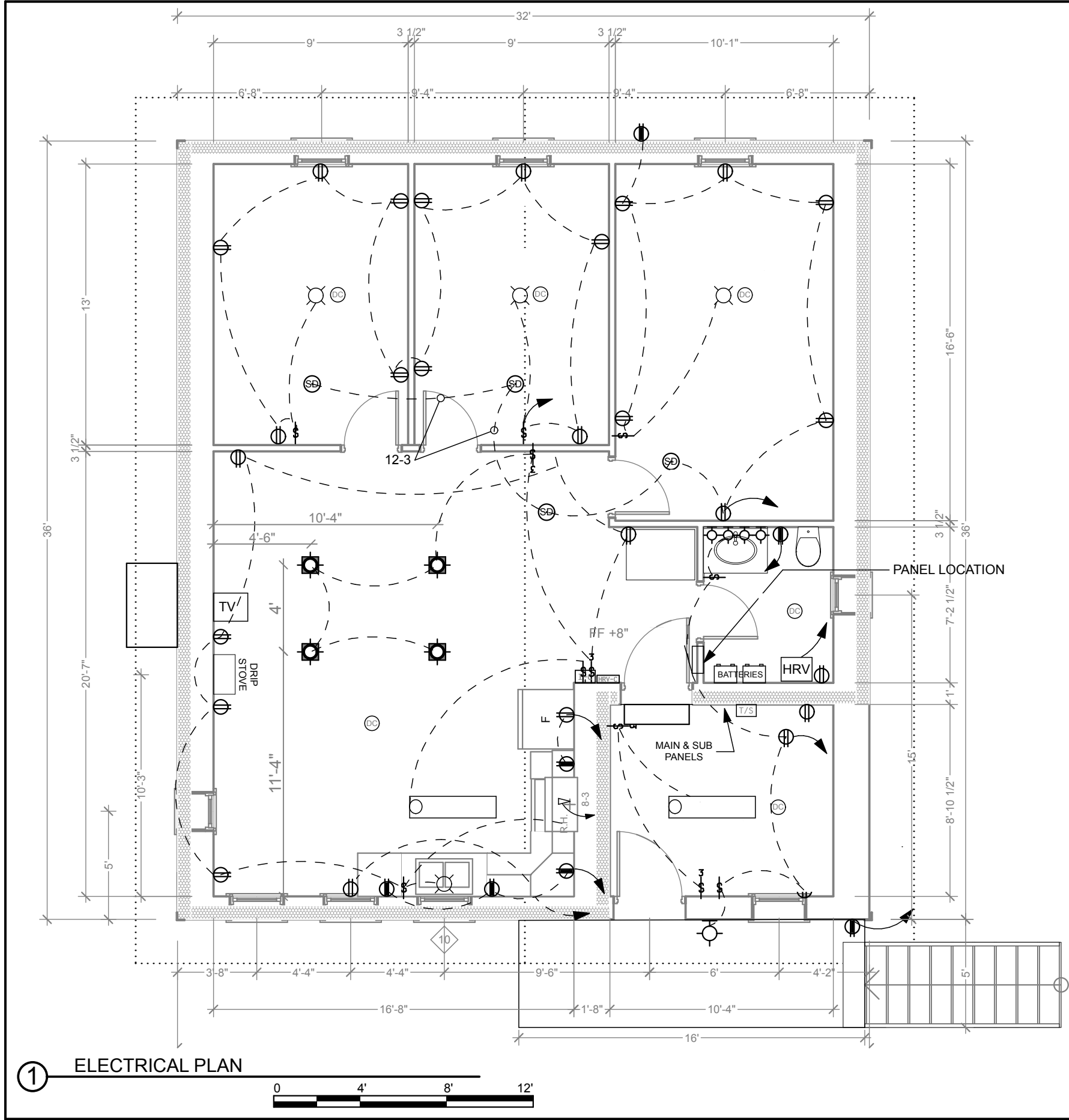
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MECH ROOM LAYOUT	
M1.3	
SHEET	OF



KEY

RECEPTACLE

GFI RECEPTACLE

SWITCH

3-WAY SWITCH

SMOKE DETECTOR

TELEVISION

TELEPHONE

OUTDOOR LIGHT

SCONCE LIGHT

DOORBELL

T8 FIXTURE

CAN LIGHT

HRV CONTROL PANEL

INVERTER CONTROLLER

GENERATOR TRANSFER SWITCH

NOTES

SERVICE METER LOCATION WILL VARY ACCORDING TO SPECIFIC SITING. TO BE DETERMINED BY ELECTRICAL ADMINISTRATOR

AC BOOSTER FAN TO BE DUCTED IN CEILING ABOVE TOILET AND TIED INTO HRV (SEE SHEET M1.1)

MAIN POWER, SUB PANEL, AND TRANSFER SWITCH TO BE LOCATED MINIMUM 40" ABOVE FF IN ELATURAQ ENTRY

PANEL 1 - SMALL LOADS SUB PANEL

1\* BR 1 RECEPTACLES & LIGHTS

3\* BR 2,3 RECEPTACLES & LIGHTS

5\* LIVING ROOM RECEPTACLES & LIGHTS

7 KITCHEN (SMALL LOAD)

9 ELATURAQ RECEPTACLE - 20A

SMOKE DETECTOR 2

BOOSTER FAN / HRV 4

ENTRANCE REC & LIGHTS 6

OUTDOOR LIGHTS 8

10

PANEL 2 - MAIN PANEL

1\* KITCHEN RECEPTACLES - 20A

3\* KITCHEN RECEPTACLES - 20A

5\* RANGE - 30A

7 RANGE - 30A

INVERTER / BATTERY CHARGING 2

CIRCUIT (110 VAC) - 15A

ELATURAQ RECEPTACLE - 20A 4

ELATURAQ RECEPTACLE - 20A 6

OUTSIDE RECEPTACLES - 15A 8

General Notes

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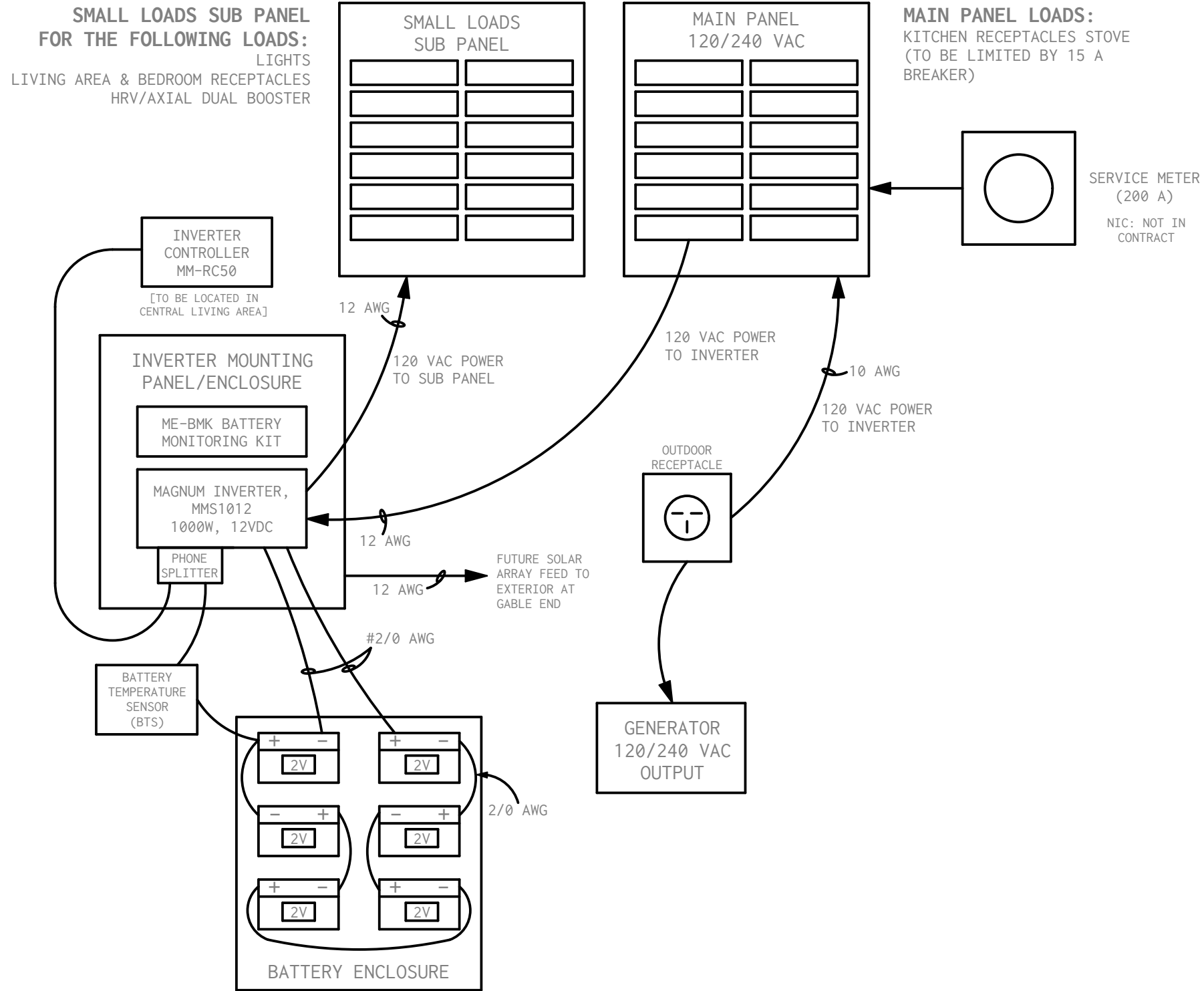
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RECORD DRAWINGS

ELECTRICAL LIGHTING LAYOUT

E1.0

SHEET OF



**NOTES**

THIS SYSTEM IS DESIGNED AS A "SOLAR-READY" SYSTEM. THE PHOTOVOLTAIC (PV) ARRAY.

FUTURE SOLAR ARRAY MUST INCLUDE PV PANELS, COMBINER BOX & MPPT CHARGE CONTROLLER.

THE INVERTER MOUNTING PANEL IS SOLAR-READY TO ACCEPT POWER FROM SOLAR PV SYSTEM.

**1 POWER GENERATION/DISTRIBUTION SYSTEM**  
NOT TO SCALE

General Notes		
DESIGNED BY:	SNC	
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FOUNDATION					
UNIT DESCRIPTION	QUANTITY	UNITS	SPECIFICATIONS	NOTES AND CHANGES BEFORE BIDDING	ECKED
FULL FOUNDATION PACKAGE TO BE SUPPLIED SEPARATELY BY TRODECT, INC.					
GLULAM BEAMS					
UNIT DESCRIPTION	QUANTITY	UNITS	SPECIFICATIONS		
3" x 9" GLU LAM BEAM	4 EA	18' LENGTHS			Aa
3" x 9" GLU LAM BEAM	2 EA	24' LENGTHS			Aa
TRUSSES					
UNIT DESCRIPTION	TOTAL	UNITS	SPECIFICATIONS		
TRUSS A	4 EA		See dwg A1.1		IB
TRUSS B	13 EA		See dwg A1.1		IB
TRUSS C	2 EA		See dwg A1.1		IB
TRUSS D	2 EA		See dwg A1.1		IB
FASTENERS					
UNIT DESCRIPTION	TOTAL	UNITS	SPECIFICATIONS		
16D Vinyl Coated sinkers		50 LBS			IB
8D Ringshank Galv Gun Nails	5000 EA		BOSTICH NAIL GUNS		IB
16D Galv Common Gun Nails	5000 EA				IB
10D Galv Common Gun Nails	2500 EA				IB
2" Zinc Plated Drywall Screws	5000 EA		GRABBERS		IB
1 5/8" Zinc Plated Drywall Screws	5000 EA		GRABBERS		IB
3" Zinc Plated Drywall Screws	5 LBS				IB
2 1/2" Zinc Plated Drywall Screws	5 LBS				IB
16D Galv Common	5 LBS				IB
8D Galv Common	5000 EA				IB
3/8" Staples (Bostitch)	2000 EA				IB
1 1/4" 16GA Galv Finish Gun Nails	2000 EA				IB
2" 16GA Galv Finish Gun Nails	2000 EA				IB
2 1/2" 16GA Galv Finish Gun Nails	2000 EA				IB
3" Ceramic Square Drive Decking Screw	25 LBS				IB
1-1/2" HDG post hanger nails for Simpson parts	8 LBS				IB
1 1/2" #9 Corrosion Resistant Simpson structural screws	400 EA			approx 110nails/lb x80bs = 880 nails Alternative to 1 1/2" joist hanger nails. Better suited to attach stair tread L90 corner angles to stair treads and stringers. (10 screws per L90 x 22 ea L90 For stairs and deck inside corners x 220 screws) For structural connections of temporary diagonal truss bracing as needed until walls have been framed and stabilized	
4" Timberlok wood screws	100 EA		REF: <a href="http://www.fastenmaster.com/details/product/timberlok-heavy-duty-wood-screw.html">http://www.fastenmaster.com/details/product/timberlok-heavy-duty-wood-screw.html</a>		
5/16" Hex Drive bits for Timberlok screws	5 EA		To fit cordless impact drivers		
PNEUMATIC BOSTITCH 28 DEGREE STICK NAIL FRAMING GUN	2 EA		PART # F280WV		
PNEUMATIC BOSTITCH 16 GAUGE FINISH NAIL GUN	2 EA		PART # FV1654K		
PNEUMATIC BOSTITCH 18 GAUGE CROWN STAPLE GUN	2 EA		PART# SX1838K		
1/4" AIR HOSE IN 50' LENGTHS	4 EA				

FITTINGS FOR HOSES AND NAIL GUNS					
1/4" TRUSS HEAD (JAW HEAD) PHILLIPS CORROSION RESISTANT WOOD SCREWS	SEE NOTES	For soffit.			
***160' of soffit, 15" overhang, for 240SF of soffit. supply sufficient coverage for this material					
EXTERIOR FRAMING					
UNIT DESCRIPTION	TOTAL UNITS	SPECIFICATIONS			
3/4" T&G Plywood subfloor	33 SHEETS				IB
1/2" CDX Plywood roof sheathing	55 SHEETS				IB
3/8" CDX Plywood	38 SHEETS				IB
2x6x16'	18 EA	barge/rake rafters, eave fascia, and ladder blocking			IB
2x6x16'	25 EA	Base of eave truss rollover blocking for wire screen			IB
2x6x12'	45 EA	Floor soffit support battens nailed to underside of truss			IB
2x4x16' blocking/bracing	32 EA				IB
2x10x16' blocking at eaves	5 EA				IB
Grace for & Water Shield 3x7x5' roll	8 ROLLS	To cover roof sheathing and exposed top edges of glue lams at deck			IB
PL400 LOCKTITE SUBFLOOR ADHESIVE 28oz., OR EQUIV.	18 TUBES				IB
TYVEK COMMERCIAL WRAP 10x125'	2 ROLLS				IB
3M VENTURE TAPE FOR TYVEK	8 ROLLS				IB
1x4x10' Lumber for furring	102 EA	10' LENGTHS			IB
1"x3x2' TRIM BOARD	1280 LF				IB
6" Galvanized Insect Screen for Bottom of wall	150 LF				IB
Simpson H-1 Horizontal I-Be	65 EA				IB
FORM ALIGNER FOR BRACING	3 EA				IB
SIMPSON TSBF TRUSS SPACER-RESTRAINT	122 EA	PART # TSBF2-24 FOR 2" OC FRAMING			Aa
SIMPSON TSF2 TRUSS SPACER	70 EA	PART# TSF2-24 FOR 2" OC FRAMING			Aa
SIMPSON WALL BRACING	14 EA	PART# WB-126 FOR 8" CEILINGS			Aa
H-25 FOR CABLE ENDS	8 EA				IB
SIMPSON H-25 TIES	12 EA				IB
EXTERIOR METAL (SIDING, ROOFING, & TRIM)					
16" Nor-Clad, Pro-Panel, or Strata Rib type 36" Wall Siding Color B	18 EA	16' LENGTHS GABLE WALLS	(Gable wall 4 full sheets x 2 vertical rows = 8 sheets x 2 walls = 16 sheets) + (Gable wall triangles 1 sheet per triangle x 2 triangles = 2 sheets) Total 18 sheets		IB
18" Nor-Clad, Pro-Panel, or Strata Rib type 36" Wall Siding Color B	15 EA	18' LENGTHS EAVE WALLS			IB
Nor-Clad or Pro-Panel type 36" Roof Metal Color A	28 EA	20' LENGTHS	Eave walls 4 rows of 3.5 sheets = 14sheets + 1 extra		IB
Outside Corner Color A	5 EA	10' LENGTHS 90DEGREE, 4" LEGS HEMMED BOTH EDGES COLORS OUTSIDE OF BEND	39ft per side x 2 sides = 78ft = 26 ea + 2 extra = 28		IB
Drip Edge (Eave) Color A	9 EA	10' LENGTHS Bent at 3/12 pitch to match fascia to roof angle	11' per corner x4 corners = 56ft = 5 sticks		IB
			39ft eave wall x 2 walls = 78ft + 12' extra = 90ft		IB

J-Channel Color A	31 EA	10' LENGTHS (310ft total)	(78ft siding termination at top of eave walls) + (17ft x4 = 68ft top of gable walls) + (140ft windows & ext door) +280ft + 24ft extra = 310ft	IB
PERFORATED METAL SOFFIT	160 LF	15" EAVE OVERHANGS		IB
Ridge Cap Color A	5 EA	10' LENGTHS (50ft)		IB
PRO-PANEL II BOX GUTTER - TRIM COLOR A	8 EA	10' LENGTHS (80ft)		IB
Eave and Gable Fascia Color A	17 EA	18ft per rake x 4 rakes = 72ft round up to 80ft		IB
		18ft per rake x 4 rakes = 72ft round up to 80ft. 40ft per eave x 2 eaves = 80ft + 1 extra to include overlaps = 90ft		IB
1/4" HEX DRIVE #9 x 1" WOOD SCREW, or EQUIV. ROOFING FIELD SCREW TYPE WINEOPRENE SEALING WASHER (COLOR A)	2800 EA	#14 X 1-1/2 NEOPRENE WASHER GASKET SELF-DRILLING FIELD SCREWS		IB
1/4" HEX DRIVE 1/2"-14 x 1/4" STITCH SCREW OR EQUIV. (COLOR A)	1120 EA	#14 X 1-1/2 NEOPRENE WASHER GASKET SELF-DRILLING STITCHER SCREWS		IB
1/4" HEX DRIVE #9 x 1" WOOD SCREW, or EQUIV. ROOFING FIELD SCREW TYPE WINEOPRENE SEALING WASHER (COLOR B)	1388 EA	#14X1-1/2 NEOPRENE WASHER GASKET SELF-DRILLING FIELD SCREWS		IB
1/4" HEX DRIVE 1/2"-14 x 1/4" STITCH SCREW OR EQUIV. (COLOR B)	600 EA	#14 X 1-1/2 NEOPRENE WASHER GASKET SELF-DRILLING STITCHER SCREWS		IB
Touch up Paint, Color A	1 PINT			IB
Outside closure Piece 192LF (wiggle mold)	64 EA	3" PIECES	(39ft ridge cap x 2 sides = 78ft) + (11ft corners x 2 sides = 22ft) x 4 corners = 88ft) +Total = 166ft / 3" = 55 pieces + 8 extra = 64 pieces	IB
Inside closure Piece (wiggle mold)	10 EA			IB
1 EA	1 EA	REF: <a href="http://www.metalsales.us.com/systemfiles/resources/product-manuals/product-manual-pro-panels.pdf">http://www.metalsales.us.com/systemfiles/resources/product-manuals/product-manual-pro-panels.pdf</a>	As needed to seal misc flashing details. (18ft per roof seam x 24 seams = 432ft) + (11ft vertical seam wall panel overlaps x 4 sides = 44ft) + (36ft horizontal seams eave walls overlaps x 4 seams = 216ft) + (32ft horizontal seams gable wall overlaps x 6 seams = 192ft) = 864ft round up to 1100ft butyl tape.	IB
1 ROLL UNIVERSAL CLOSURE 1"x1 1/2" x 50'				
Butyl Tape or Similar for Metal Seams	1100 LF	AS SPECIFIED BY MANUFACTURER		IB
GUTTERS				
Gutters	80 LF	WHITE		IB
Gutter Endcap	4			IB
Sufficient Brackets to Attach Gutters				IB
Downspouts	48 LF	WHITE		IB
Elbows	12 EA			IB
Pop Rivets 3/8"	300 EA	SUITABLE TO FASTEN GUTTER STOCK IN HIGH WIND AREAS		IB
Pop Rivet Gun	1 EA			IB
Drill Bits sized to 3/8" pop rivets	3 EA			IB
MISC SUPPLIES				
100' x 20' ROLL STRAND REINFORCED 6 MIL POLY	1 EA	DURA SKRIM OR EQUIV.		IB
Silicon Clear Caulk 12 oz Tubes	36 EA			IB
White Painters Caulk 12 oz Tubes	12 EA			IB
Paint Roller Frame and Roller Covers	3 EA			IB
1/2" Nap Roller Covers	12 EA			IB
Duct Tape 2" Wide 60' Rolls	1 EA			IB
Blue Masking Tape 2" wide40'	2 EA			IB
WINDOWS EXTERIOR JAMB MATERIALS				
1"x12"x12' AZEK FRONTIER TRIM (WOOD GRAIN 1 SIDE)	8 LF	AZEK BOARD FOR EXTERIOR JAMB SILLS - TRUSS EAVE WALLS	(Eave window sills 1'-8 1/2" x 2 = 3'-0") round up to 8' as it is the shortest length	IB
1"x10"x12' AZEK FRONTIER TRIM (WOOD GRAIN 1 SIDE)	124 LF	AZEK BOARD FOR EXTERIOR JAMB SIDES & TOPS - TRUSS EAVE AND GABLE WALLS TO BE RIPPED INTO WIDTH	As taken from prior job list, + additional 24LF for door jamb extensions	IB

AZEK ADHESIVE 80Z	1 EA	REF: <a href="http://www.azek.com/azek-trim/azek-adhesive.aspx">http://www.azek.com/azek-trim/azek-adhesive.aspx</a>		IB
2" CERAMIC COATED BUGLE HEAD COARSE THREAD WOOD SCREWS - GRABBERGARD X500RG OR EQUIV.	3 LBS	REF: <a href="http://www.grabberman.com/ItemDetails.aspx?Itemid=X500RG&amp;Tab=videos">http://www.grabberman.com/ItemDetails.aspx?Itemid=X500RG&amp;Tab=videos</a>		IB
3/4" Backer Rod	120 LF			IB
12" Backer Rod	120 LF			IB
PROSOCO R-GUARD FASTFLASH 29 OZ TUBE	9 EA	29OZ TUBE REF: <a href="http://www.prosoco.com/products/r-guard-fastflash">http://www.prosoco.com/products/r-guard-fastflash</a>	(sqft gable end walls window & door openings: 14ft x4 windows = 12ft x3 windows = 17ft door = 50ft+30ft+17ft = 109ft x1 foot deep = 109sqft) + (sqft eave walls window openings: 12ft x2 windows = 24ft x 1'-0" deep = 36sqft) = Total 145sqft (22sqft per 29 oz tube = 7 tubes + 2 extra = 9 tubes	IB
PROSOCO R-GUARD JOINT & SEAM FILLER 29 OZ TUBE	2 EA	29OZ TUBE REF: <a href="http://www.prosoco.com/products/r-guard-joint-seam-filler">http://www.prosoco.com/products/r-guard-joint-seam-filler</a>	(if gable end wall openings windows & door: all per opening & opening = 32ft) + (if eave walls window openings: 6ft per opening x 2 openings = 12ft) = Total 44ft 80ft per 29 oz tube = 1 tube + 1 extra = 2 tubes	IB
PROSOCO R-GUARD AIR DAM	12 EA	20 OZ SAUSAGE REF: <a href="http://www.prosoco.com/products/r-guard-airdam">http://www.prosoco.com/products/r-guard-airdam</a>	(perimeter length of gable wall openings = 109ft) + (perimeter length of eave wall openings = 24ft) = 133ft / 12ft per 20oz sausage = 11 sausages to yield a 12"x12" bead. Round up to 12 sausages.	IB
SAUSAGE CAULKING GUN	1 EA	HIGH QUALITY FOR PROSOCO 20OZ SAUSAGES OF AIR DAM CAULKING		IB
CONE NOZZLES TO FIT SAUSAGE GUN	5 EA			IB
4" DISPOSABLE FLAT PLASTIC TROWELS	4 EA			IB
BOX NITRILE DISPOSABLE GLOVES SIZE LARGE	1 EA	50 COUNT MINIMUM		IB
MINIMAL EXPANDING WINDOW AND DOOR FOAM	24 EA	-20OZ CANS TO FIT FOAM GUN. TOUCH 'N SEAL OR EQUIVALENT		IB
FOAM GUN	2 EA	TOUCH 'N SEAL OR EQUIVALENT		IB
FOAM GUN CLEANER	1 EA	CAN OF FOAM GUN CLEANER		IB
PVC Cement	2 EA			IB
INSULATION				
UNIT DESCRIPTION	TOTAL	UNITS	SPECIFICATIONS	
R11 Sound Batting	500 SF		FOR 24" O.C. FRAMING 2x4 WALLS	
Soy-Based Polyurethane spray-applied foam insulation	8 SETS		1 set = two 55 gal. drums, one drum Part A and one drum Part B	
INTERIOR FINISHES				
UNIT DESCRIPTION	TOTAL	UNITS	SPECIFICATIONS	
2x4x8'	81 EA			IB
2x4x10'	4 EA			IB
2x4x12'	15 EA			IB
2x4x14'	12 EA			IB
2x4x16'	8 EA			IB
1/2 AC Plywood Walls & Ceiling	120 SHEETS			IB
Door Casing	32		8' LENGTHS	
Baseboard	338 LF			
1-1/2"x 1-1/2" Outside Corner	2		8' LENGTHS	
3/4"x3/4" Square block trim	28		8' LENGTHS	
3/4"x3/4" Square block trim	338 LF			
Batten Strips 1-1/4" x 1/8" CLEAR PINE WOOD BEVELED	1800 LF			

General Notes

DESIGNED BY: SNC  
DRAWN BY: Haley Nelson

No. Rev/Issue 9/7/16

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PROJECT  
NEWTOK DEMONSTRATION HOME

FOR THE COMMUNITY OF NEWTOK  
NEWTOK, ALASKA  
ISSUED  
2nd September 2015  
RECORD DRAWINGS

MATERIALS LIST

ML1.1

SHEET OF


GRAINGER 8" AXIAL DUCT BOOSTER FAN	1 EA	PART# SC963
PLASTIC HANGER STRAPPING	2 ROLLS	
FOR PLUMBING		
3" PVC pipe	16 LF	8' LENGTHS
3" PVC 90's	5	
3" PVC 45's	1	
3" to 4" Reducer PVC	1	
3" PVC Bell End	1	
3" PVC Rubber Coupling w/ Hose Clamps	1	FERNCO Part # 1056-33
Reducer w/ Seals	1	
URINAL	1 EA	SaniCar Part
URINE JUG	1 EA	Included in Lifewater Urinal Attachment Kit
HOSE BARB	1 EA	Included in Lifewater Urinal Attachment Kit
1" HOSE BARB TEE	1 EA	Included in Lifewater Urinal Attachment Kit; TO CONNECT HOSE FROM URINAL, HOSE FROM TOILET, AND HOSE FROM UI
HOSE WIRE	10 LF	Included in Lifewater Urinal Attachment Kit
MALE PIPE THREAD	3 EA	Included in Lifewater Urinal Attachment Kit
FEMALE CAMLOCK FITTING	1 EA	Included in Lifewater Urinal Attachment Kit
MALE CAMLOCK FITTING	1 EA	Included in Lifewater Urinal Attachment Kit
1" BALL VALVE - THREADED	1 EA	Included in Lifewater Urinal Attachment Kit

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MATERIALS LIST

ML1.3

SHEET OF