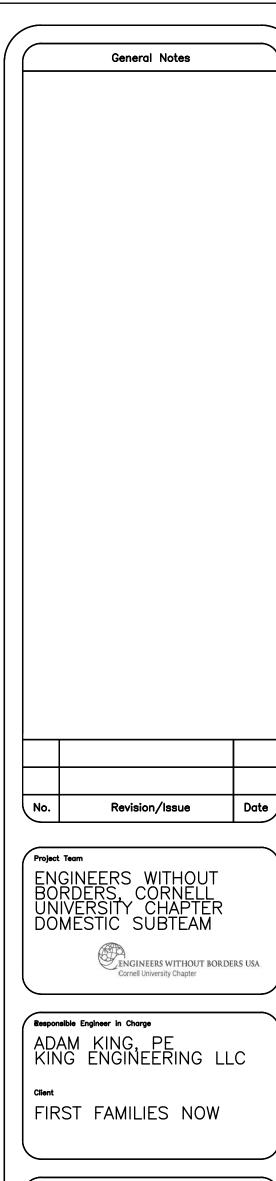
HVAC SYMBOL LIST					
	RETURN OR EXHAUST DUCT UP				
\Diamond	ROUND EXHAUST DUCT UP				
	NEW EQUIPMENT				
T	THERMOSTAT				

	HVAC DRAWING NOTATIONS
#	DRAWING NOTE TAG

ME	MECHANICAL DRAWING LIST					
DRAWING NUMBER	DRAWING DESCRIPTION					
M-001.00	MECHANICAL NOTES AND SYMBOLS					
M-101.10	MECHANICAL PROPOSED PLAN (BASEBOARD)					
M-101.20	MECHANICAL PROPOSED PLAN (WOOD STOVE)					
M-102.10	MECHANICAL PROPOSED ROOF PLAN (BASEBOARD)					
M-102.20	MECHANICAL PROPOSED ROOF PLAN (WOOD STOVE)					
M-501.00	MECHANICAL DETAILS					
M-502.00	MECHANICAL DETAILS					
M-601.00	MECHANICAL EXHAUST RISER DIAGRAM					
M-701.00	MECHANICAL SCHEDULES					



PINE RIDGE AFFORDABLE HOUSING PROJECT

PINE RIDGE RESERVATION, SOUTH DAKOTA

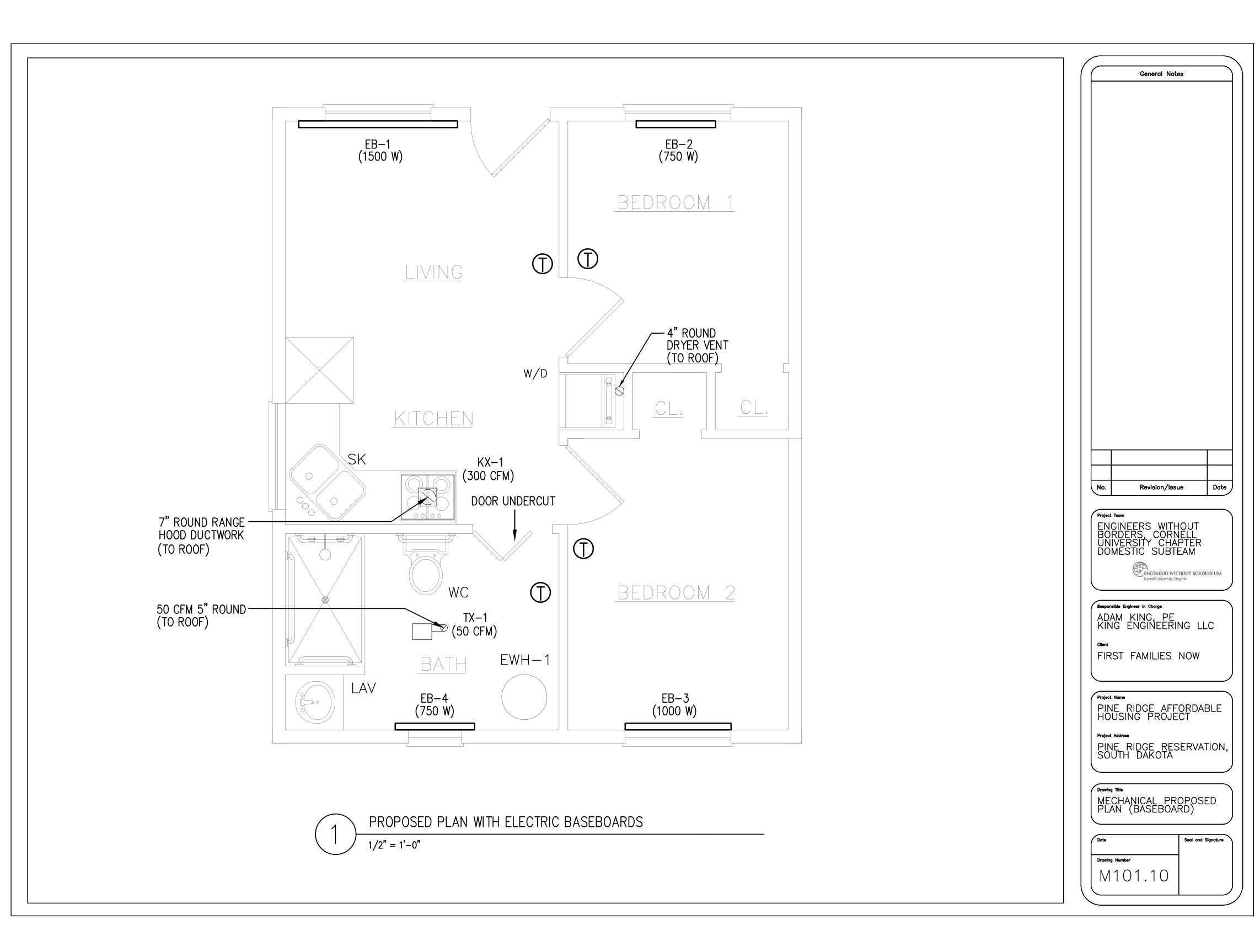
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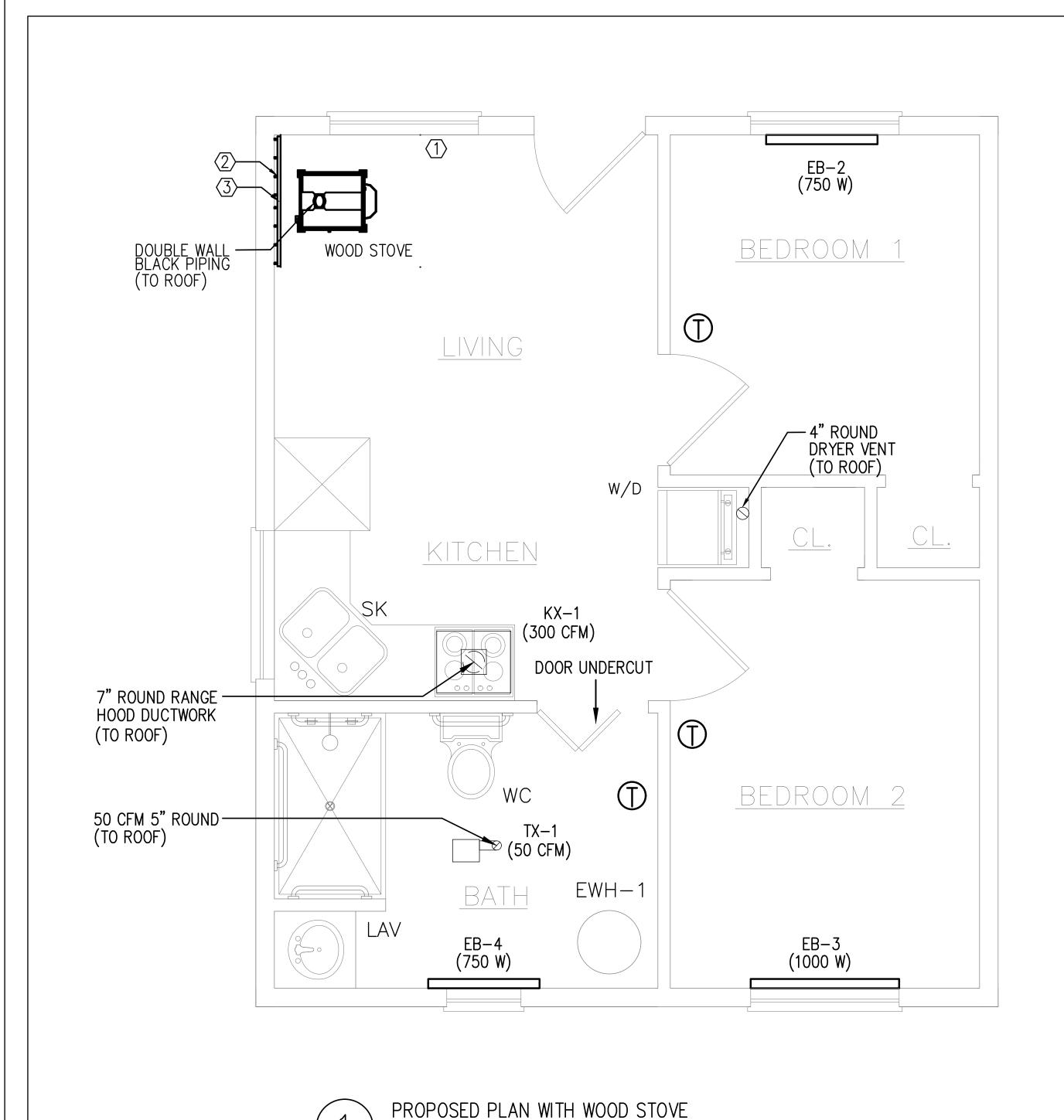
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Drawing Title

Drawing Number

M001.00

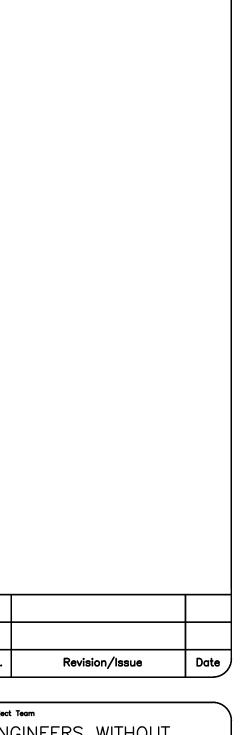




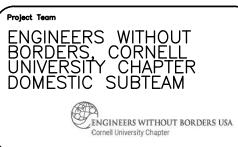
1/2" = 1'-0"

KEYNOTES:

- (1) MAINTAIN MINIMUM STOVE BOARD CLEARANCES FROM WOOD STOVE TO WALLS OF THE HOUSING UNIT. WITH 28 GAGE SHEET METAL STOVEBOARD, THE MINIMUM CLEARANCE FROM COMBUSTIBLE WALLS AND CEILING IS 12". FROM STOVEBOARD, THE MINIMUM CLEARANCE IS 6 1/2". FROM FRONT OF WOOD STOVE, MINIMUM CLEARANCE IS 18".
- (2) 1" NONCOMBUSTIBLE SPACERS TO BE INSTALLED BY CONTRACTOR BETWEEN STOVE BOARD AND WALL OF HOUSING UNIT. DO NOT INSTALL SPACERS DIRECTLY BEHIND APPLIANCE.
- (3) 42" NONCOMBUSTIBLE STOVE BOARD, MADE OF 28 GAGE SHEET METAL, TO BE INSTALLED 12" BEHIND THE WOOD STOVE ONTO THE WALL OF HOUSING UNIT.



General Notes



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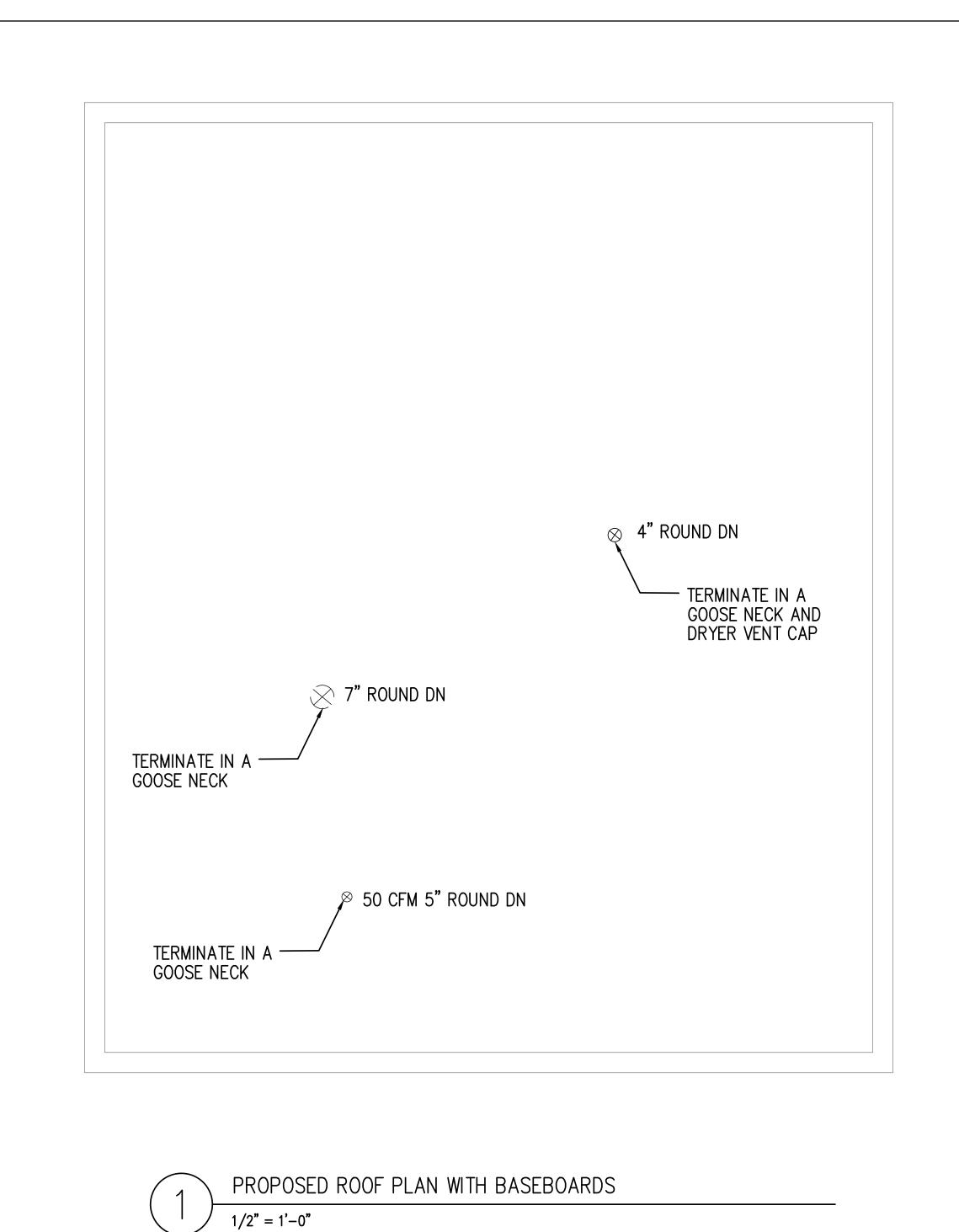
FIRST FAMILIES NOW

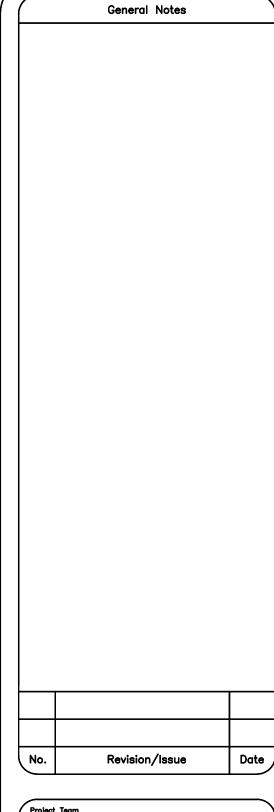
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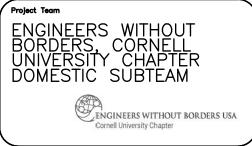
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MECHANICAL PROPOSED PLAN (WOOD STOVE)

Drawing Number M101.20







ADAM KING, PE KING ENGINEERING LLC

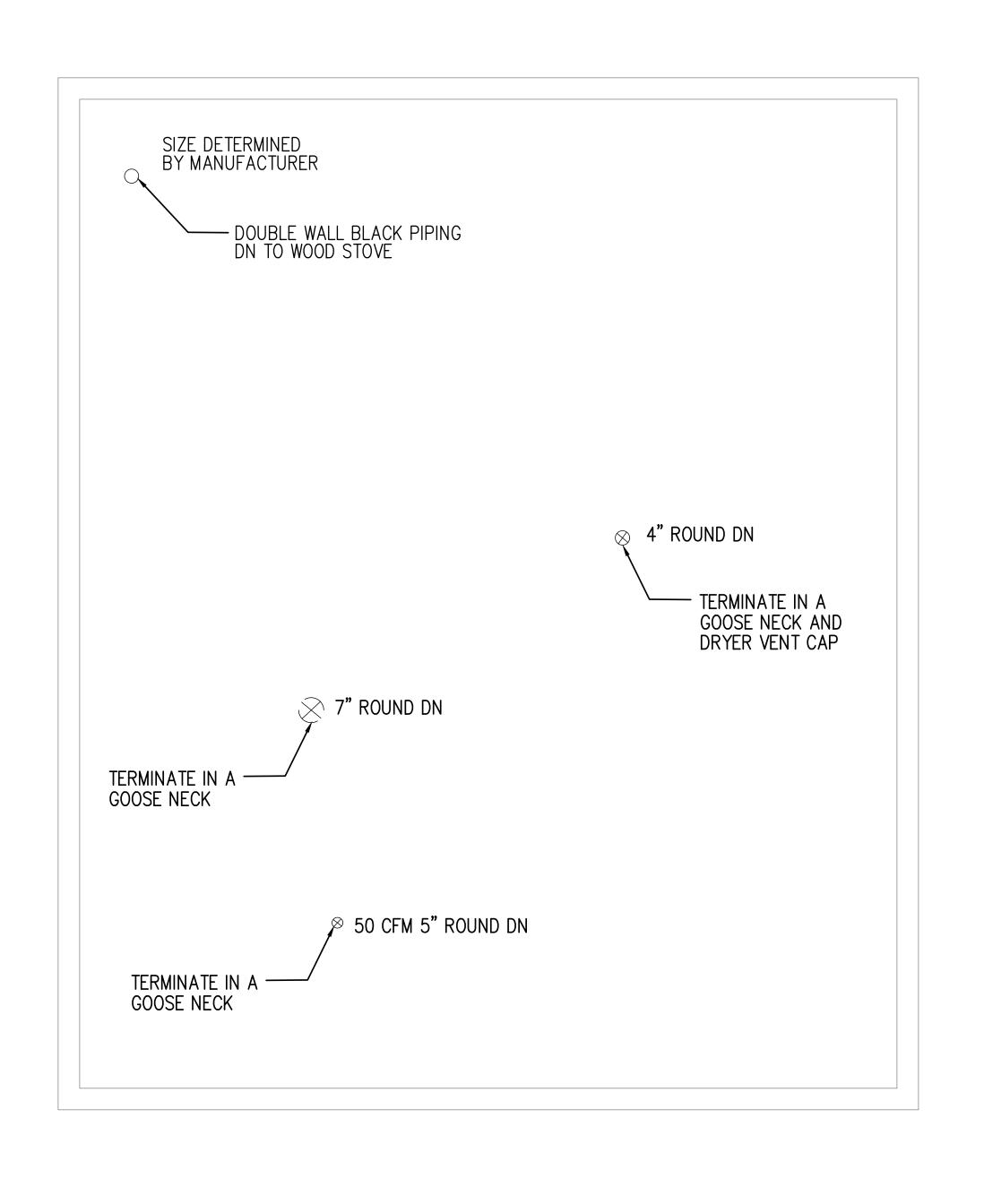
FIRST FAMILIES NOW

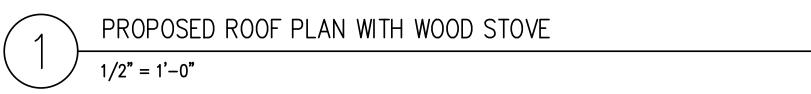
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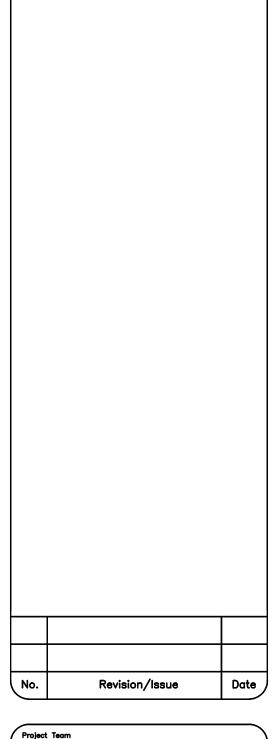
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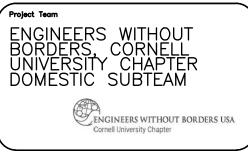
MECHANICAL PROPOSED ROOF PLAN (BASEBOARD)

Seal and Signatur









ADAM KING, PE KING ENGINEERING LLC

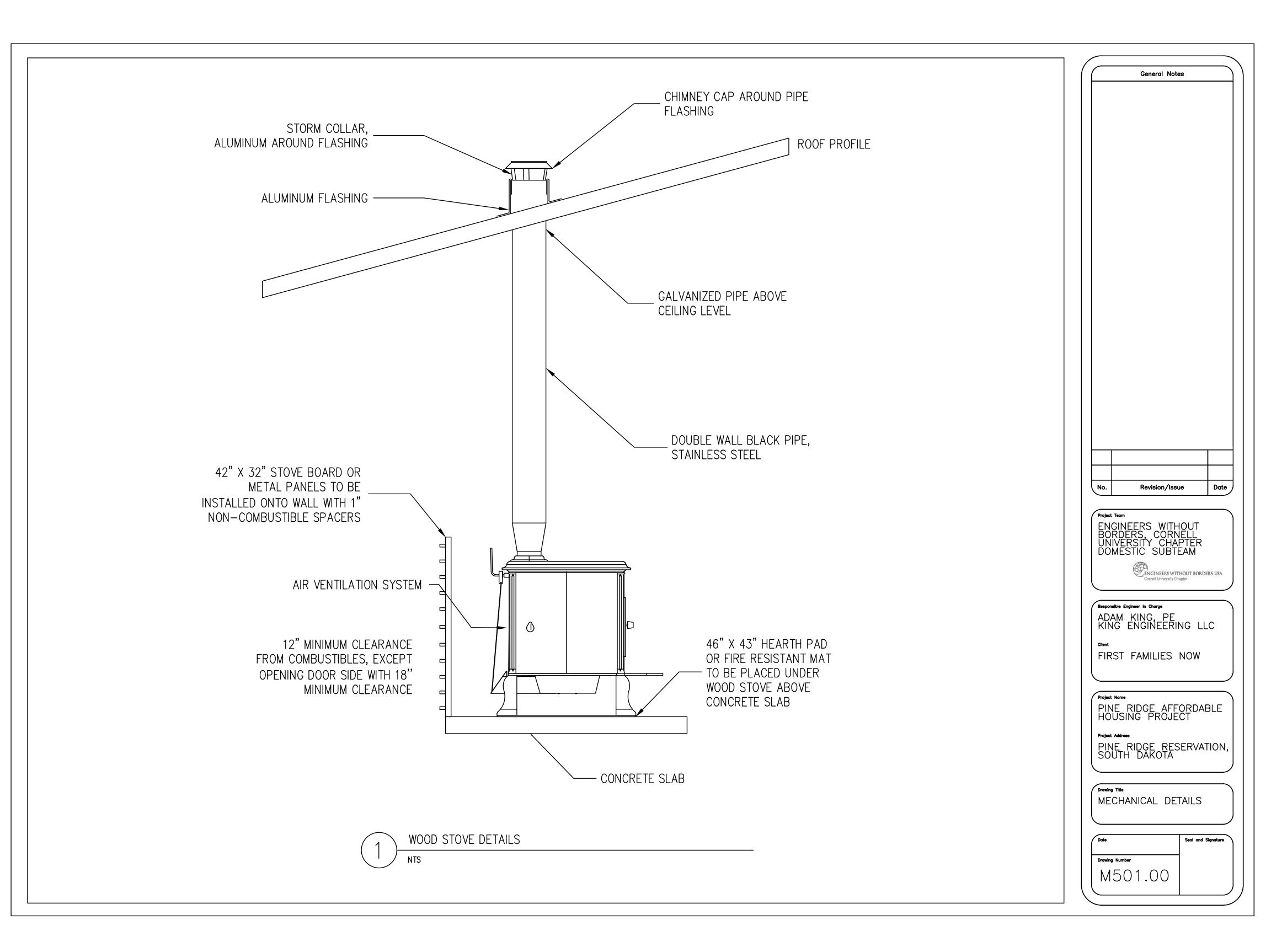
FIRST FAMILIES NOW

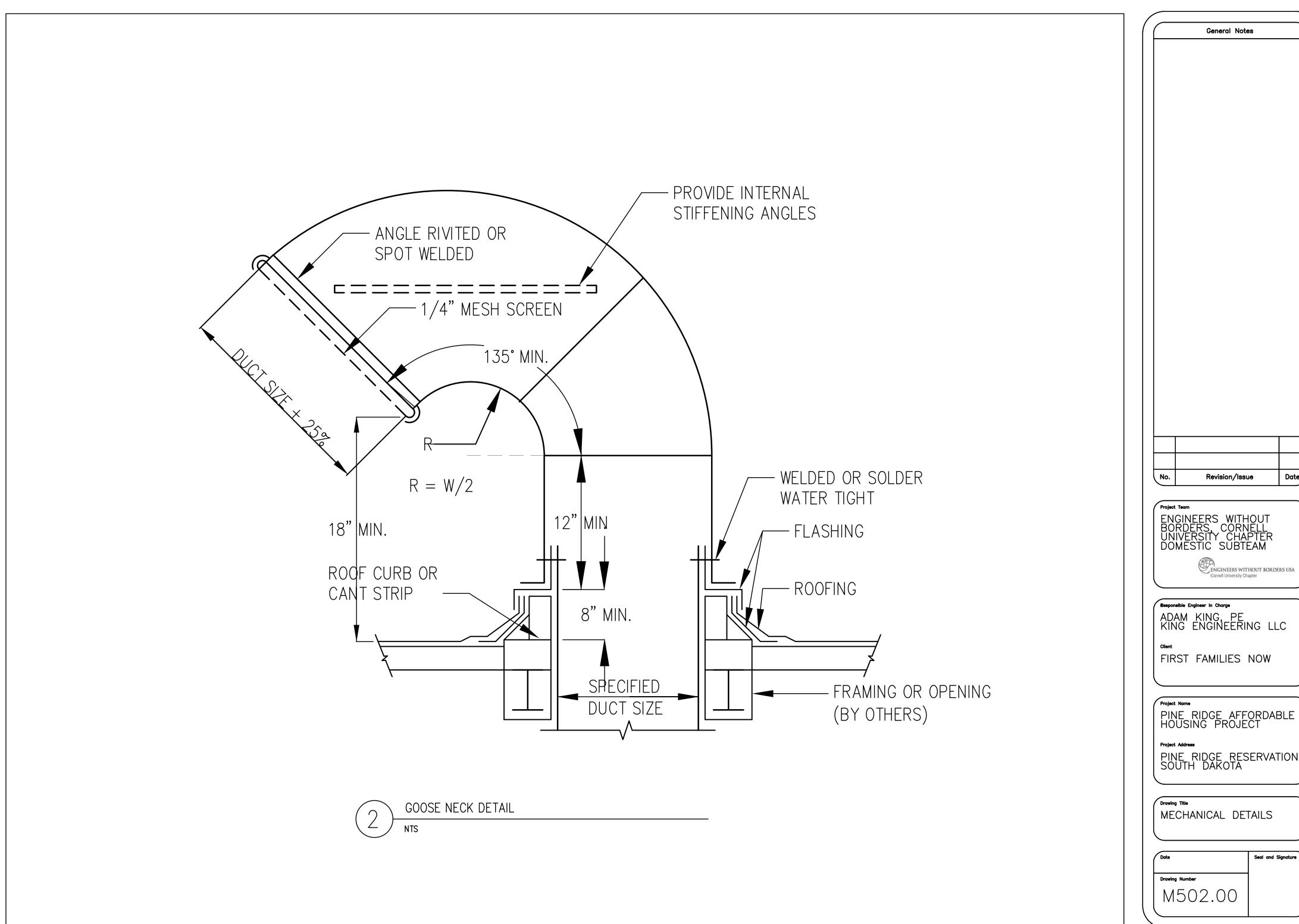
Project Name
PINE RIDGE AFFORDABLE
HOUSING PROJECT

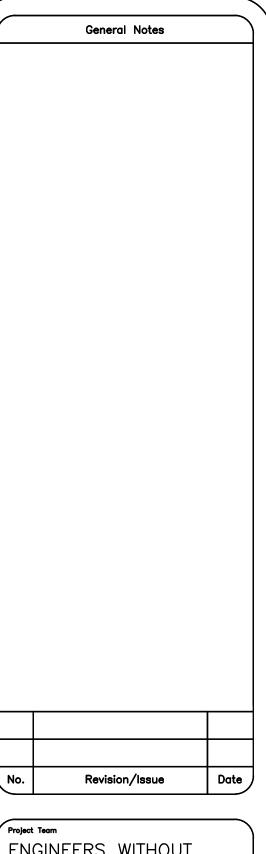
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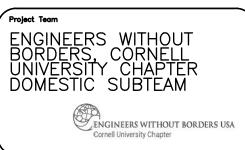
MECHANICAL PROPOSED ROOF PLAN (WOOD STOVE)

Date	Seal and Signature
Drawing Number	
M101.20	



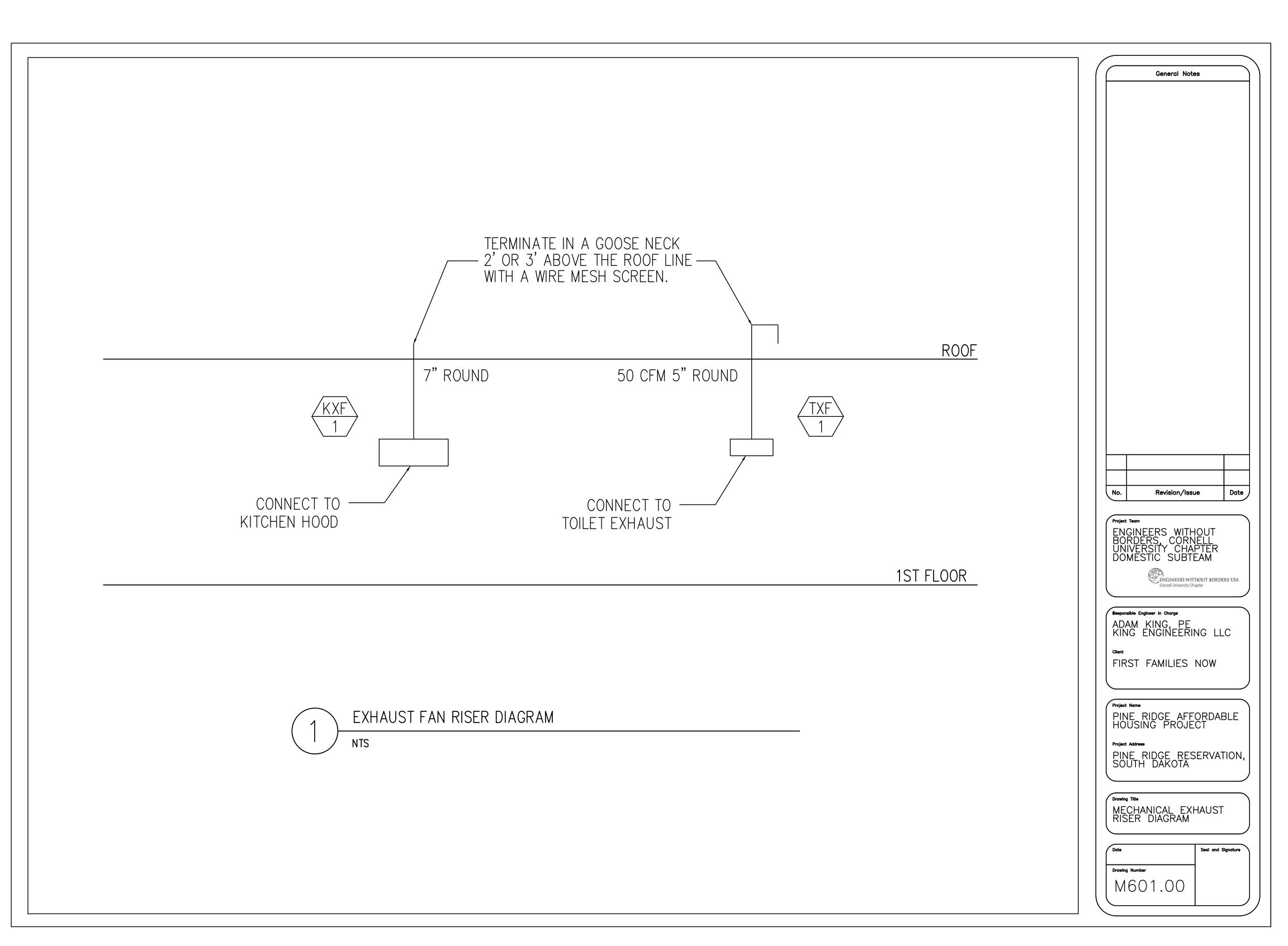






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PINE RIDGE RESERVATION, SOUTH DAKOTA



FAN SCHEDULE

UNIT NO.	SERVICE	LOCATION	TYPE	<u>DRIVE</u>	CFM	E.S.P. (IN. W.G.)	RPM	WATTS	ELECT. DATA (V/PH/HZ)	UNIT WEIGHT (LBS)	MANUFACTURER	MODEL NO.	DIMENSIONS (L" x W" x H")
KX-1	KITCHEN	SEE PLANS	2-SPEED ROCKER	-	300	0.1 - 0.25	-	168	120/1/60	20	BROAN	BSCD124SS	24"x19.625"x6"
TX-1	BATHROOM	SEE PLANS	-	-	50	0.1	-	-	120/1/60	5	BROAN	696N	7.5"x8.75"x3.625"

NOTES

- 1. PROVIDE ELECTRIC BACKDRAFT DAMPER FOR EACH FAN
- 2. PROVIDE VIBRATION ISOLATOR FOR ALL FANS
- 3. INSTALL ALL FANS AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS
- 4. TX-1 SHALL BE WIRED TO BATHROOM LIGHT SWITCH.

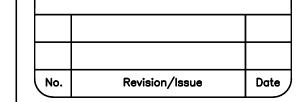
HEATING SCHEDULE

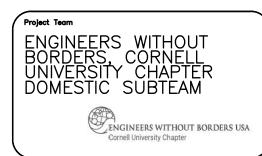
UNIT NO.	<u>SERVICE</u>	<u>LOCATION</u>	TOTAL HEATING (W)	ELECT. DATA (V/PH/HZ)	<u>AMPS</u>	<u>UNIT WEIGHT</u> (LBS)	MANUFACTURER	MODEL NO.	DIMENSIONS (L" x W" x H")
EB-1	LIVING ROOM-KITCHEN	SEE PLANS	1500	120/1/60	12.5	15	CADET	6F1500-1W	72"x2.5"x6.75"
EB-2	BEDROOM 1	SEE PLANS	750	120/1/60	6.3	10	CADET	3F750-1W	36"x2.5"x6.75"
EB-3	BEDROOM 2	SEE PLANS	1000	120/1/60	8.3	10	CADET	4F1000-1W	48"x2.5"x6.75"
EB-4	BATHROOM	SEE PLANS	750	120/1/60	6.3	10	CADET	3F750-1W	36"x2.5"x6.75"
WOOD STOVE	LIVING ROOM-KITCHEN	SEE PLANS	30 MBH	-	-	200	TRUE NORTH	TN-10	26"x21.5"x15"

NOTES

- 1. BASED ON CLIENT PREFERENCE, USE EITHER EB-1 OR WOOD STOVE IN CONSTRUCTION
- 2. ELECTRIC BASE BOARD HEATERS SHALL BE PROVIDED WITH INTERNAL HIGH-TEMPERATURE SAFETY SHUFOFF
- 3. CONTRACTOR SHALL INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALL REQUIRED CLEARANCES SHALL BE MANTAINED.
- 4. PROVIDE WITH BUILT-IN THERMOSTAT KIT.
- 5. ELECTRIC HEATERS SHALL BE WALL MOUNTED. PROVIDE ALL REQUIRED MOUNTING HARDWARE AND BRACKETS.

General Notes





Responsible Engineer in Charge

ADAM KING, PE

KING ENGINEERING LLC

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Project Name
PINE RIDGE AFFORDABLE
HOUSING PROJECT

PINE RIDGE RESERVATION, SOUTH DAKOTA

Drawing Title

MECHANICAL SCHEDULES

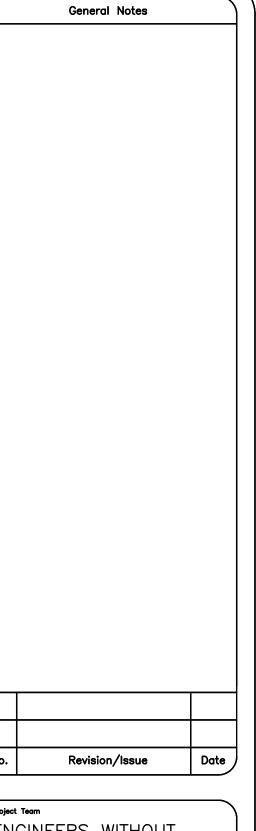
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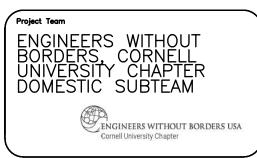
Drawing Number

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	SYMBOLS LEGEND
	BREAKER PANEL
\$	SWITCH
=	DUPLEX RECEPTACLE OUTLET
⇒ _{GFI}	GROUND FAULT INTERRUPTER
→	240V OUTLET
	RECESSED LIGHT
-	CEILING LIGHT
О	VANITY LIGHT
SD	COMBINATION SMOKE AND CARBON MONOXIDE DETECTOR 120V WITH BATTERY BACK-UP
ABCD	SWITCH WIRING
>	ETHERNET PORT
T	THERMOSTAT
EB - #	ELECTRIC BASEBOARD HEATER
\bigcirc	EXHAUST FAN
0	CEILING FAN WITH LIGHT
<u> </u>	JUNCTION BOX

El	ELECTRICAL DRAWING LIST				
DRAWING NUMBER	DRAWING DESCRIPTION				
E-001.00	ELECTRICAL NOTES AND SYMBOLS				
E-002.00	ELECTRICAL PANEL SCHEDULE				
E-101.10	ELECTRICAL PROPOSED PLAN (WOOD STOVE)				
E-101.20	ELECTRICAL PROPOSED ROOF PLAN (BASEBOARD)				





Responsible Engineer in Charge
ADAM KING, PE
KING ENGINEERING LLC

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PINE RIDGE AFFORDABLE
HOUSING PROJECT

Project Address
PINE RIDGE RESERVATION,
SOUTH DAKOTA

Drawing Title
ELECTRICAL NOTES
AND SYMBOLS

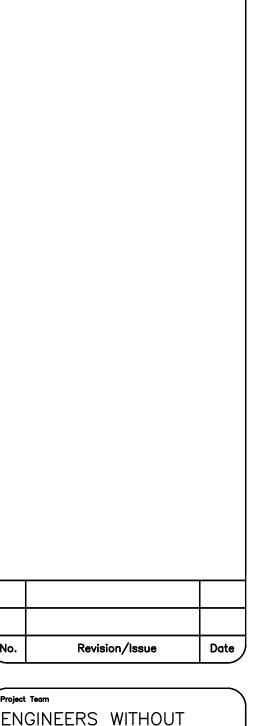
Date	Seal and Signature
Drawing Number	-
E001.00	

BRANCH PANEL (MAIN)
LOCATION: LIVING ROOM
TOTAL LOAD: 23,000 W

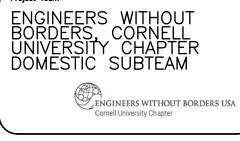
VOLTS: 120/240

SINGLE A.I.C. RATING: PRIMARY @ 22kA

AMPS/VOLTS:	DESCRIPTION:	BREAKER #:	BREAKER #:	DESCRIPTION:	AMPS/VOLTS:
15A/120V	BEDROOM 1 LIGHTS	1	2	BEDROOM 2 LIGHTS	15A/120V
15A/120V	BEDROOM 1 OUTLETS	3	4	BEDROOM 2 OUTLETS	15A/120V
15A/120V	KITCHEN/LIVINGROOM LIGHTS	5	6	KITCHEN OUTLETS	15A/120V
40A/240V	STOVE	7	8	HOOD	15A/120V
_	BRIDGE	9	10	FRIDGE	20A/120V
15A/240V	BASEBOARD 1	11	12	BASEBOARD 3	15A/240V
_	BRIDGE	13	14	BRIDGE	_
15A/240V	BASEBOARD 2	15	16	BASEBOARD 4	15A/240V
_	BRIDGE	17	18	BRIDGE	_
15A/120V	BATHROOM LIGHTS	19	20	BATHROOM OUTLETS	15A/120V
20A/240V	WATER HEATER	21	22	WASHER/DRYER	40A/120V
_	BRIDGE	23	24	BRIDGE	_
15A/120V	LIVINGROOM/OUTDOOR OUTLETS	25	26	CEILING FAN	15A/120V
15A/120V	OUTDOOR LIGHT	27	28	TOILET EXHAUST FAN	15A/120V
		29	30		



General Notes



Responsible Engineer in Charge

ADAM KING, PE

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Project Name
PINE RIDGE AFFORDABLE
HOUSING PROJECT

PINE RIDGE RESERVATION SOUTH DAKOTA

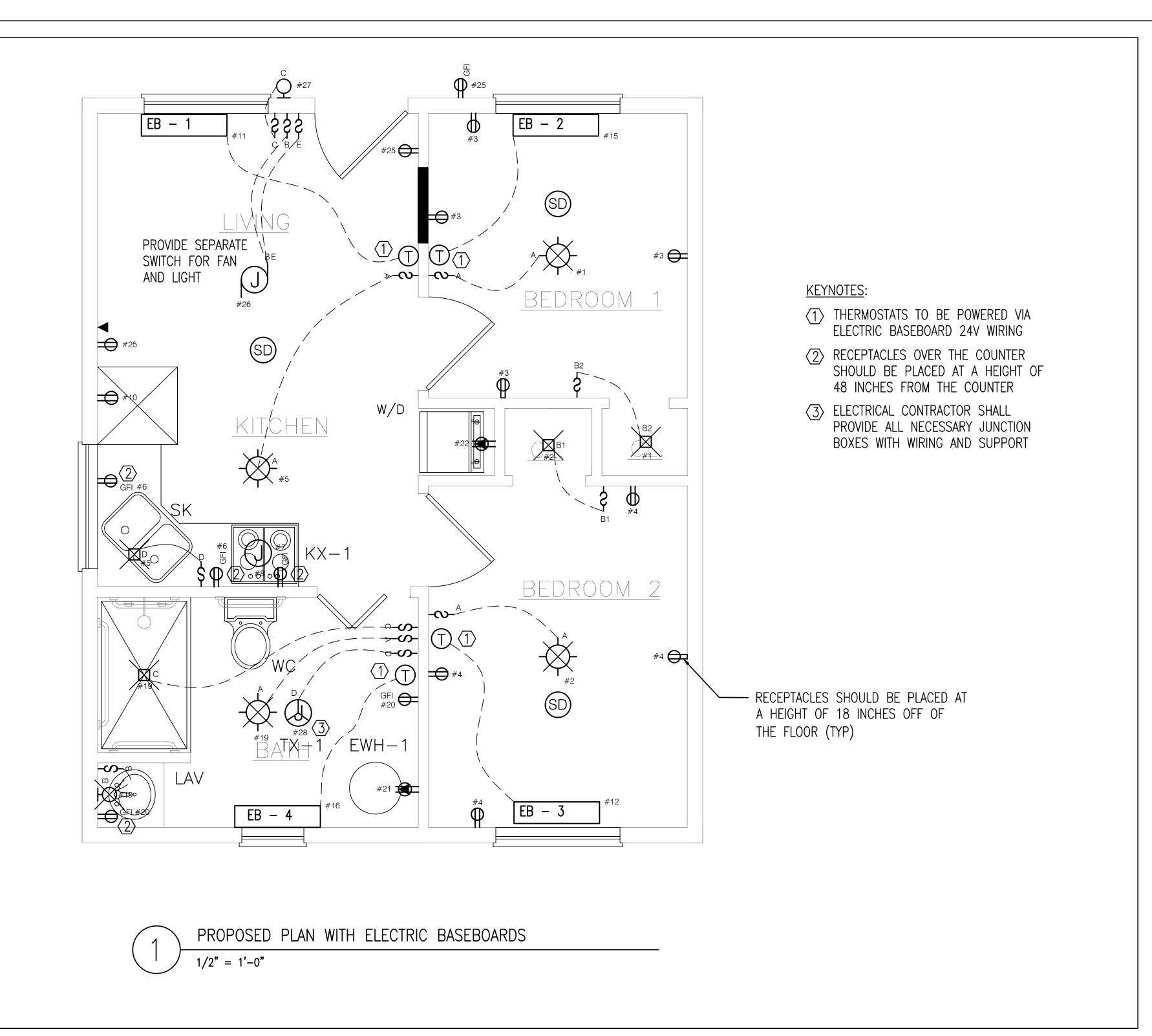
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ELECTRICAL PANEL SCHEDULE

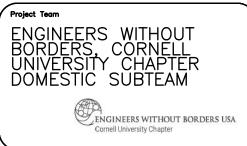
Date

Drawing Number

E002.00



General Notes Revision/Issue Date



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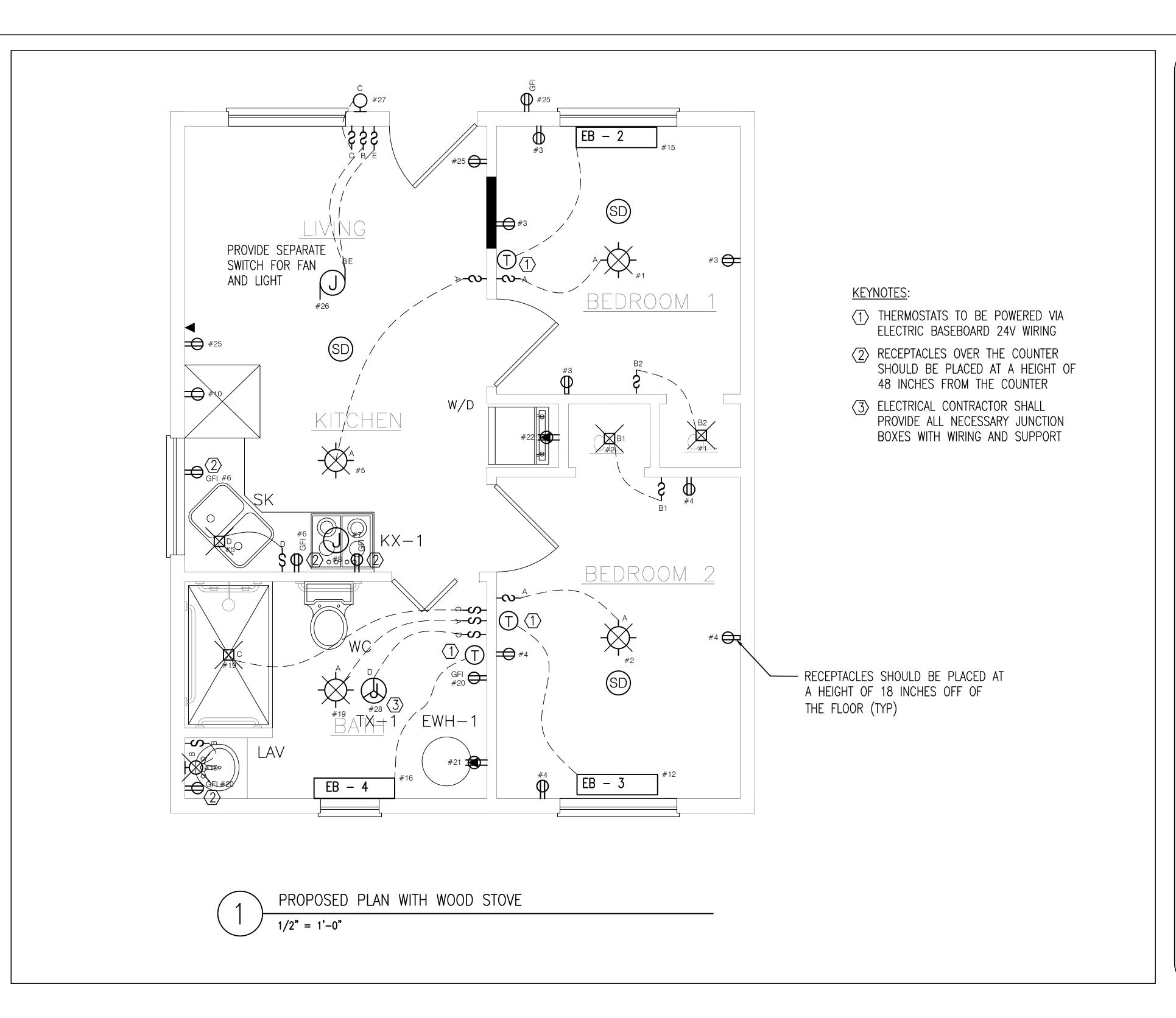
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PINE RIDGE AFFORDABLE HOUSING PROJECT

PINE RIDGE RESERVATION, SOUTH DAKOTA

ELECTRICAL PROPOSED PLAN (BASEBOARDS)

Seal and Signature E100.10



Revision/Issue Date ENGINEERS WITHOUT BORDERS, CORNELL UNIVERSITY CHAPTER DOMESTIC SUBTEAM

General Notes

ADAM KING, PE KING ENGINEERING LLC

ENGINEERS WITHOUT BORDERS USA

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PINE RIDGE AFFORDABLE HOUSING PROJECT

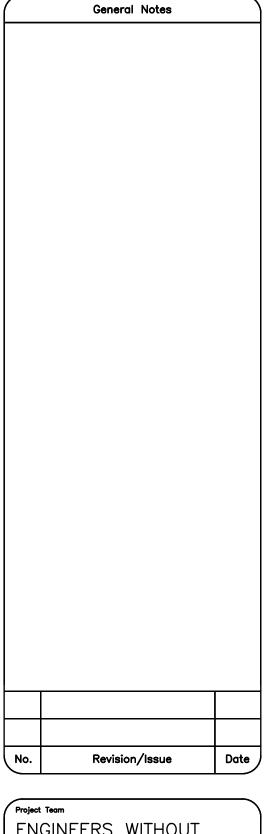
PINE RIDGE RESERVATION, SOUTH DAKOTA

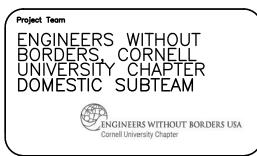
ELECTRICAL PROPOSED PLAN (WOOD STOVE)

E100.20

S	SYMBOLS LEGEND					
	COLD WATER PEX PIPING					
	HOT WATER PEX PIPING					
	VENTING PIPING					
	WASTEWATER PVC PIPING					
\sim	CONNECT TO EXISTING					
\bowtie	VALVE					
Q	VALVE IN RISE					
1	WALL CLEANOUT					

PLUMBING DRAWING LIST			
DRAWING NUMBER	DRAWING DESCRIPTION		
P-001.00	PLUMBING NOTES AND SYMBOLS		
P-101.10	PLUMBING HW/CW PROPOSED PLAN		
P-101.20	PLUMBING SANITARY PROPOSED PLAN		
P-501.00	PLUMBING DETAILS		
P-601.10	PLUMBING HW/CW RISER DIAGRAM		
P-601.20	PLUMBING SANITARY RISER DIAGRAM		
P-701.00	PLUMBING SCHEDULES		





Responsible Engineer in Charge

ADAM KING, PE KING ENGINEERING LLC

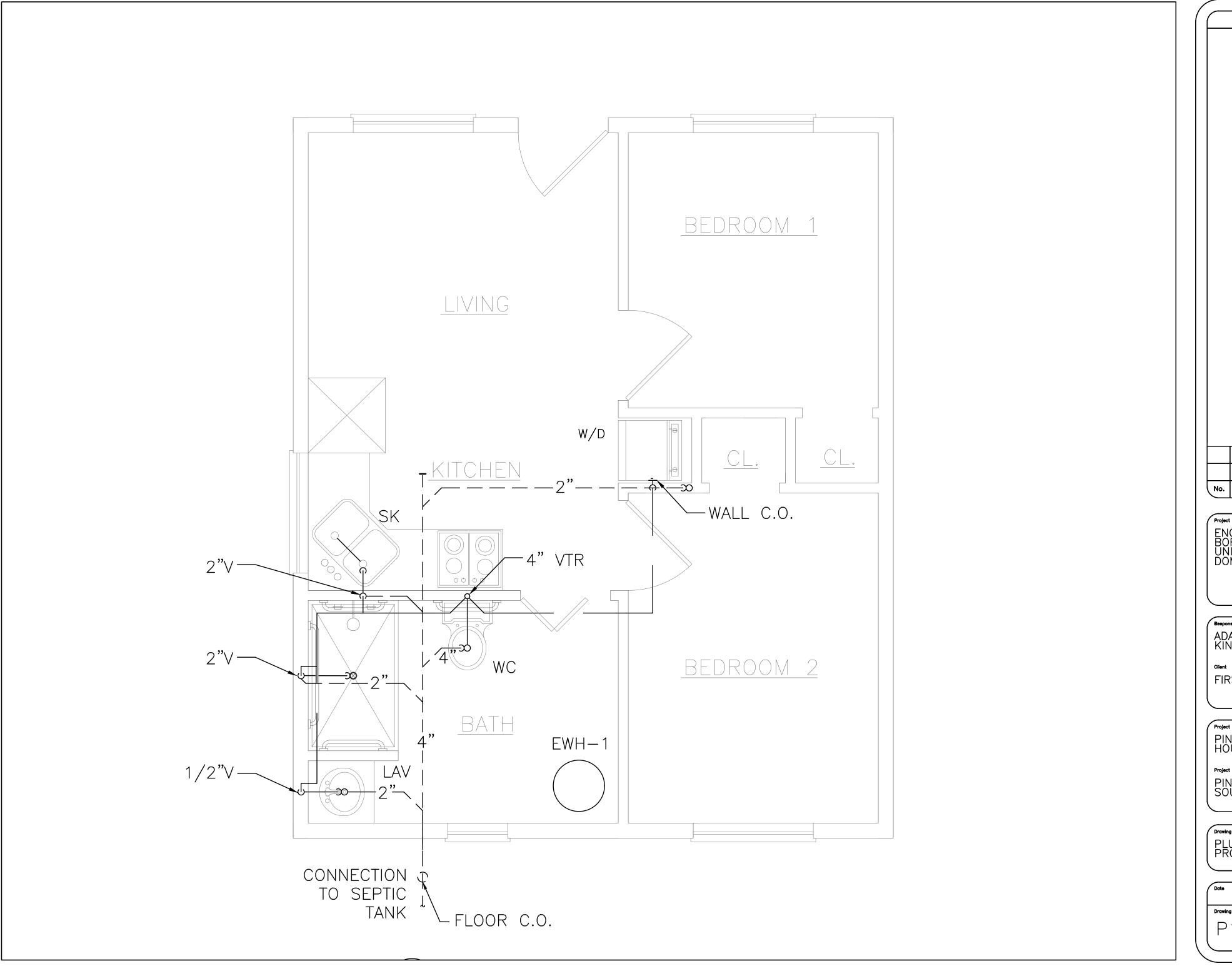
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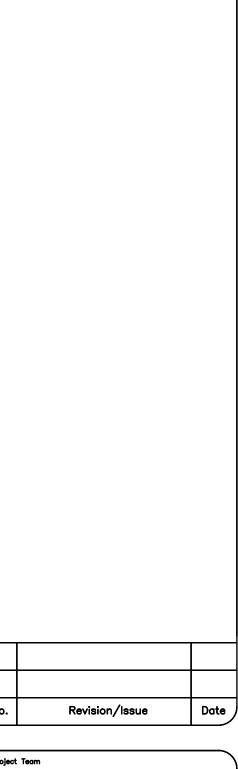
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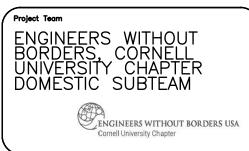
PINE RIDGE RESERVATION, SOUTH DAKOTA

PLUMBING NOTES AND SYMBOLS

Date	Seal and Signature
Drawing Number	
P001.00	







Responsible Engineer in Charge

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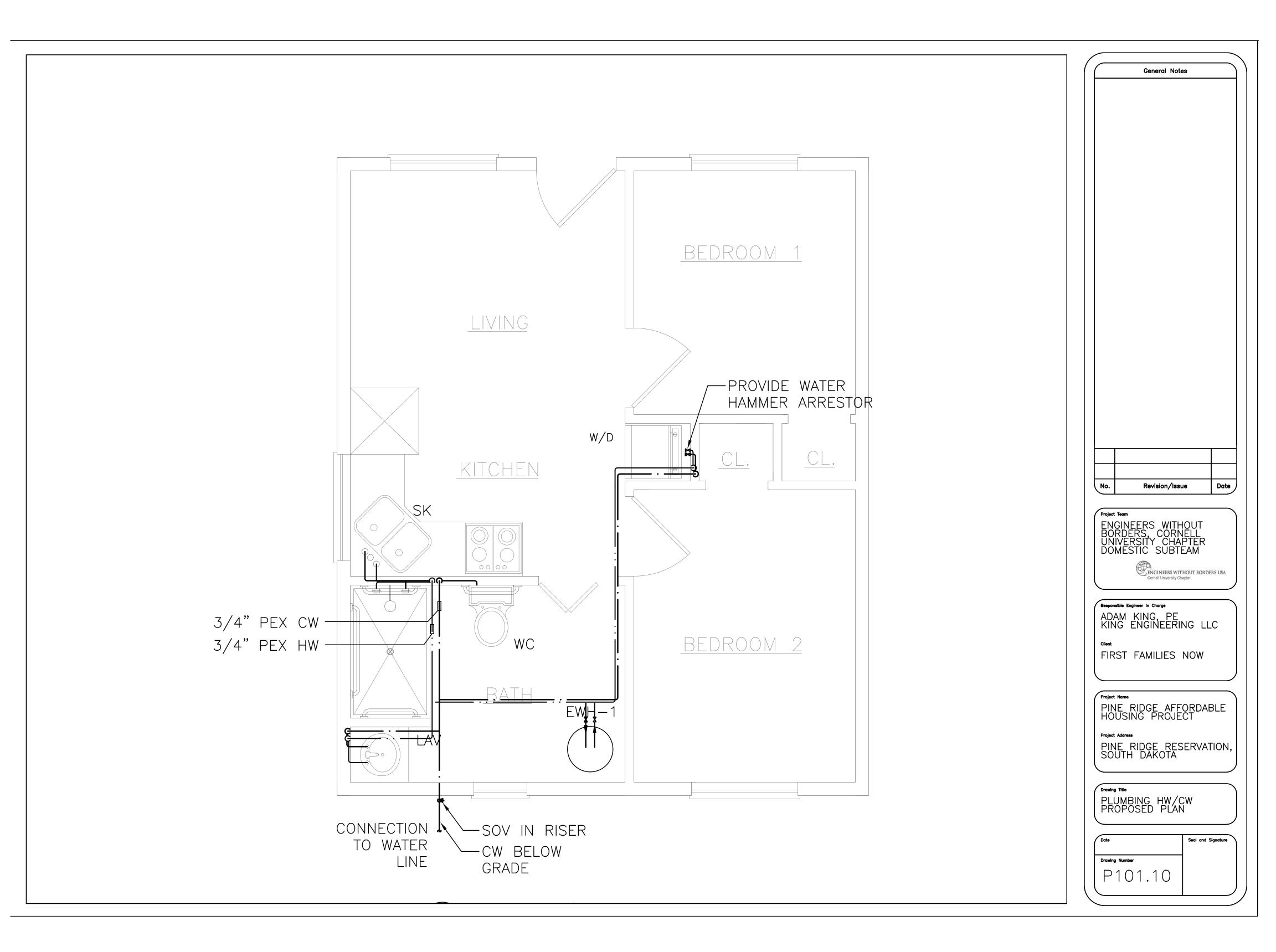
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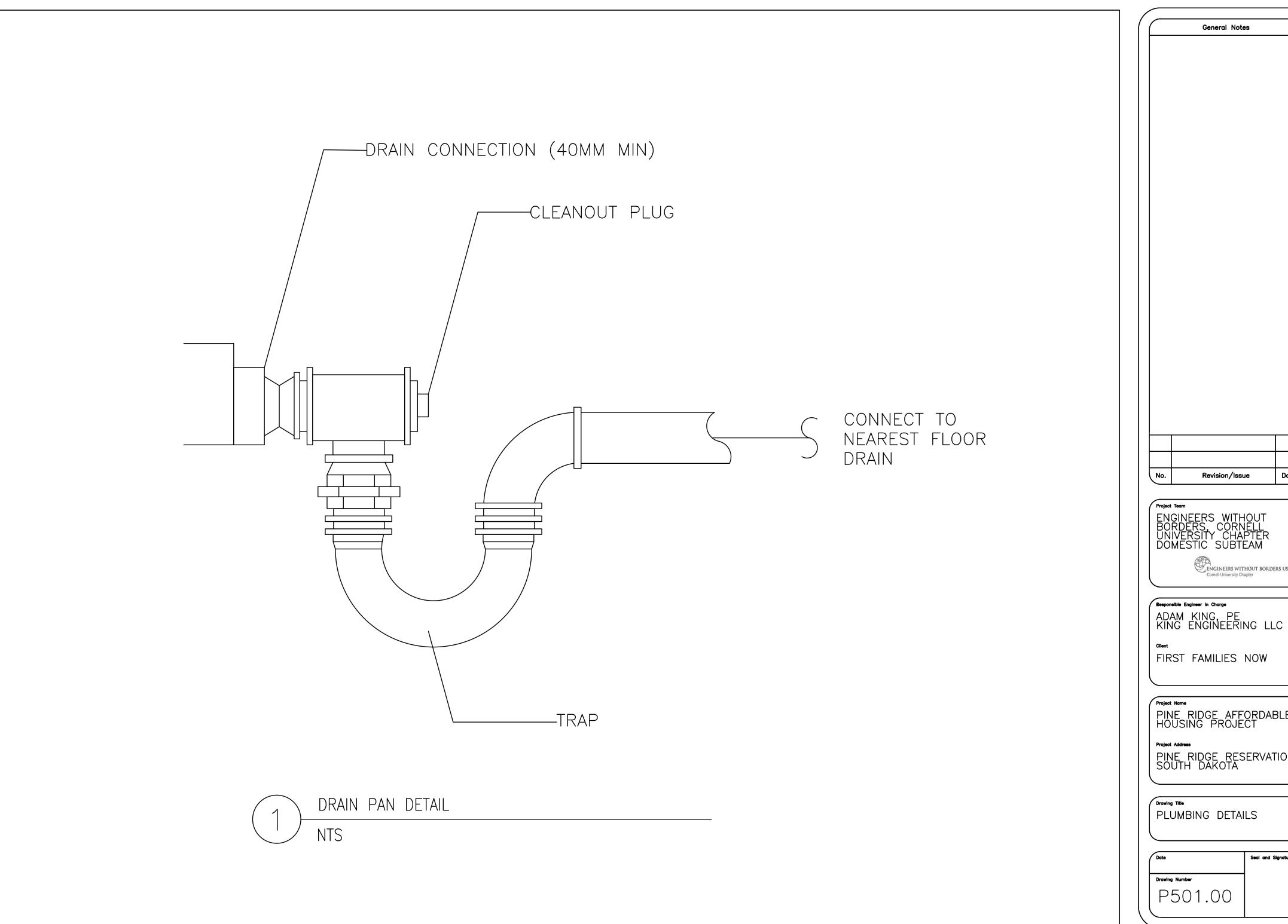
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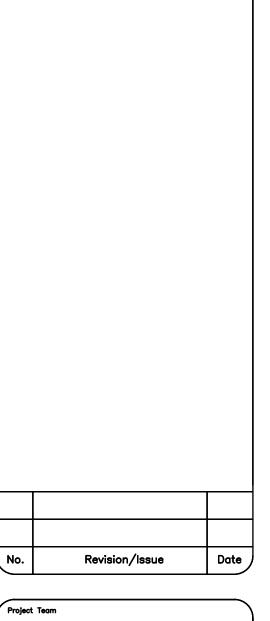
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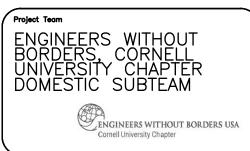
PLUMBING SANITARY PROPOSED PLAN

Seal and Signature P101.20





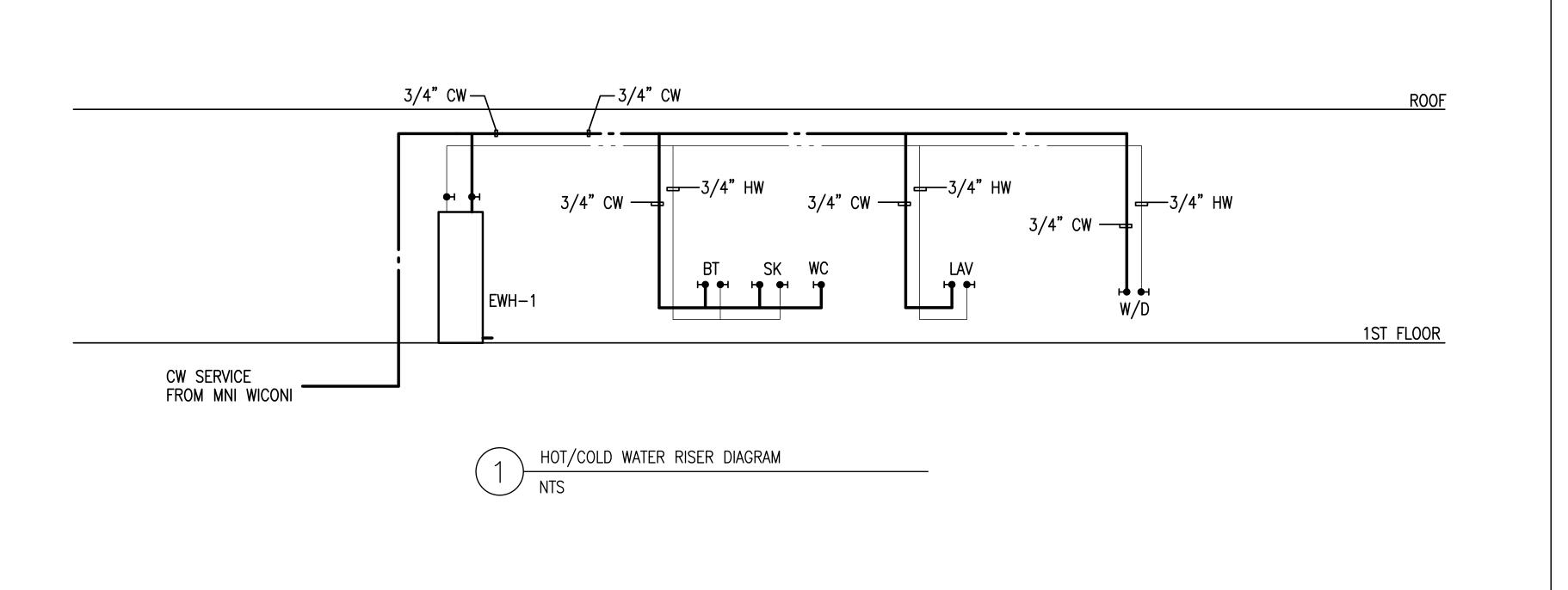


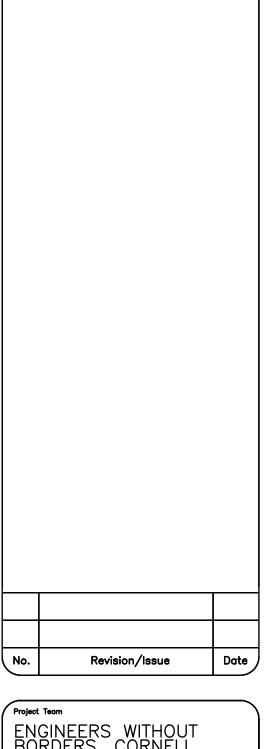


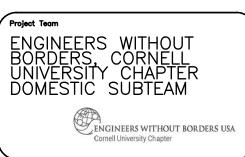
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PINE RIDGE AFFORDABLE HOUSING PROJECT

Seal and Signature







Responsible Engineer in Charge

ADAM KING, PE

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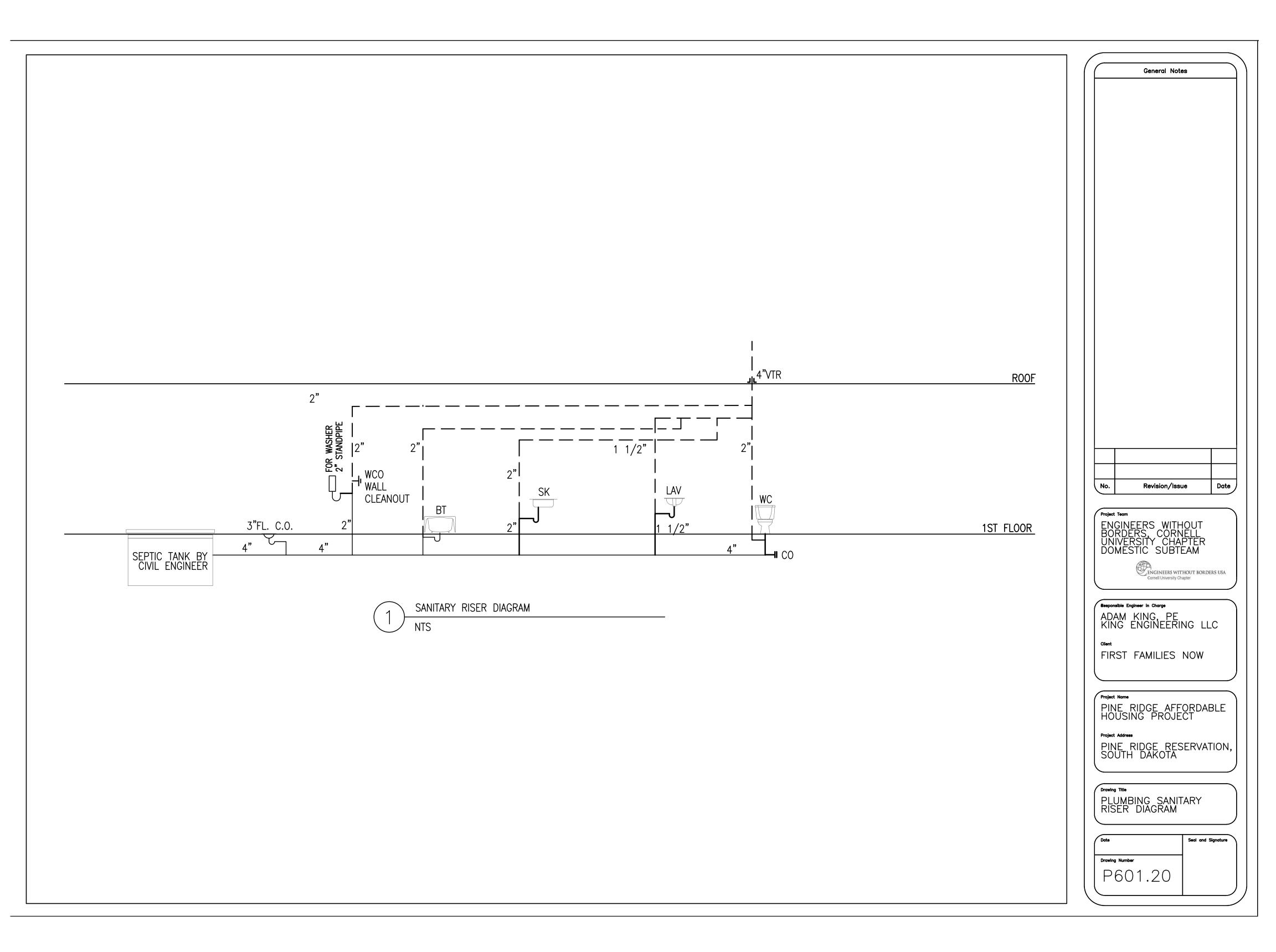
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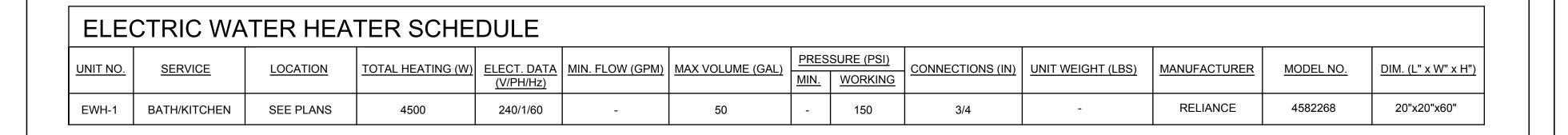
Project Name
PINE RIDGE AFFORDABLE
HOUSING PROJECT

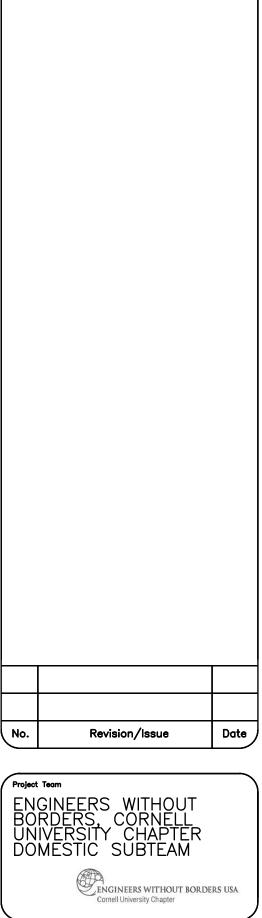
Project Address
PINE RIDGE RESERVATION,
SOUTH DAKOTA

PLUMBING HOT/COLD RISER DIAGRAM

Date	Seal and Signature
Drawing Number	1
P601.20	







Responsible Engineer in Charge

ADAM KING, PE
KING ENGINEERING LLC

Client FIRST FAMILIES NOW

roject Name

PINE RIDGE AFFORDABLE HOUSING PROJECT

Project Address

PINE RIDGE RESERVATION SOUTH DAKOTA

Drawing Title

PLUMBING SCHEDULES

Date	Seal and Signature
Drawing Number	
P701.00	