

REVISIONS	DATE
(1)	4/07/06
(2)	5/26/06
AS BUILT	08/03/06

SHEET CONTENTS:  
**FLOOR PLAN**

PROJECT TITLE:  
**14' x 60'  
SHOWER/CHANGE BUILDING  
LAMBERT SCHOOL DISTRICT**  
PRESENTED BY:  
**US MODULAR**

**ADVANCED MODULAR MANUFACTURING**  
644 WEST 14600 SOUTH  
BLUFFDALE, UTAH, 84065  
PH. (801) 571-9841  
FAX (801) 571-9883  
DRAWN BY: SK  
CHECKED BY: THE GHOST

DATE:  
**MARCH 17, 2006**

SHEET  
**1 of 4**  
USMOD135

**AJFU-1464-3410**

- FRAMING**
- FRAME: 12" I-BEAM, BOLT-ON HITCH, 4-AXLE, OUTRIGGER TYPE B' C.C 8-PLY TIRES
  - FLOOR: JOISTS: 2X8 @ 16" O.C.;  
INSULATION: R-19 UNFACED FIBERGLASS;  
BOTTOM BOARD: 40-MIL PLASTIC MOBILEFLEX;  
DECKING: 3/4" T&G PLYWOOD/EQUAL;
  - ROOF: PITCHED; PRE-MANUFACTURED WOOD TRUSS @ 16" USE #AM-24533; 4/12 SLOPE; 12" EAVES ON ALL SIDES.  
INSULATION: R-30 UNFACED FIBERGLASS.
  - WALLS: EXTERIOR: 2X6 @ 16" O.C.;  
INTERIOR: 2X4 @ 16" O.C.;  
PLATES: TOP: DOUBLE 2X; BOTTOM: SINGLE 2X.
  - RETURN AIR: 20" X 12" GRILLS AT HVAC ENDWALLS (TOTAL: 2).
  - ROOF VENTILATION: CONTINUOUS SOFFIT VENTING;  
SIX (6) 9" X 9" TURTLE VENTS ON ONE (1) SIDE.

- FINISHES**
- EXTERIOR  
WALLS: INSULATION: R-19 UNFACED FIBERGLASS;  
SHEATHING: 7/16" OSB/EQ.  
SIDING: 29-GA. WIDE RIB STEEL OVER HOUSE WRAP (COLOR: SADDLE TAN);  
TRIM: 29-GA. STEEL (COLOR: SADDLE TAN);  
ROOF: SHEATHING: 7/16" OSB/EQ.;  
ROOFING: 26-GA 'SL-16' STANDING SEAM METAL OVER ONE (1) ROW ICE & DAM SHIELD AND #30 FELT ON REMAINDER (COLOR: RUSTIC RED);
  - INTERIOR  
FLOOR: 85-MIL SHEET VINYL W/ WELDED SEAMS (COLOR: "DOMCO" INFLUENCE #52028)  
WALLS: FINISH: FLOOR/CEILING "WHITE" FRP OVER 7/16" OSB/EQ SHEATHING.  
INSULATION: R-11 UNFACED FIBERGLASS.  
BASE: 4" VINYL COVE (COLOR: GRAY)  
CEILING: T-GRID SUSPENDED CEILING SYSTEM @ 95" AFF. SEE PAGE 3.

- WINDOWS AND DOORS**
- EXTERIOR DOORS: ① 3068 "STEELCRAFT" 186A, BLANK W/ 166A, KNOCKDOWN, THRESHOLD, WEATHERSTRIP, LCN 4040/ EQ. CLOSURE, (COLOR: TO MATCH SIDING) (TOTAL: 1);  
HARDWARE: KEYS LEVER W/ KEYS DEADBOLT (COLOR: TBD)
  - INTERIOR DOOR: ② 3068 SC LEGACY OAK W/ TIMELY STEEL JAMBS; KICKPLATES; & WALL MOUNTED DOOR STOPS (TOTAL: 2)  
HARDWARE: PUSH/PULL.  
③ 3068 SC LEGACY OAK W/ TIMELY STEEL JAMBS & WALL MOUNTED DOOR STOPS (TOTAL: 1)
  - WINDOWS: ④ 4010 WHITE VINYL FRAME; HS W/ INSULATED OBSCURED GLASS & INSECT SCREEN (TOTAL: 4);  
HARDWARE: KEYS LEVER.
  - BLINDS: NONE

- CABINETRY & APPLIANCES**
- COAT HOOKS (TOTAL: 40);
  - BENCHES: 12" DEEP X 16" AFF; WHERE SHOWN; 2X12'S SEALED W/ METAL SUPPORT FEET.
  - PARTITIONS: SEE PAGE 2

- SKIRTING**
- PROVIDE 148 LF OF 36" TALL SKIRT SHEETS TO MATCH SIDING

**GENERAL NOTES -- MONTANA --**

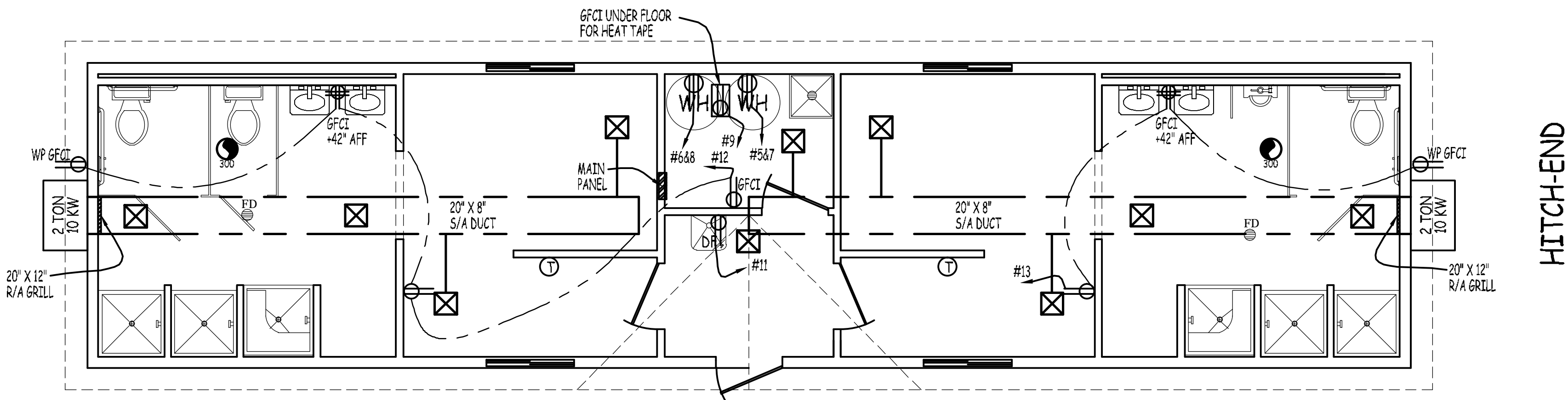
- CODES: 2003 IBC, 2003 TMC, 2003 IPC, 2005 NEC.
- OCCUPANCY: E DIVISION: 2
- CONSTRUCTION TYPE: VB USEABLE SQ. FT.: 840
- OCCUPANCY LOAD: 42
- HANDICAP REQUIREMENTS: ANSI A117.1-1998
- DESIGN LOADS: LIVE FLOOR: 50 LBS/SQ. FT.  
EXIT WAY: N/A LBS/SQ. FT.  
LIVE ROOF: 50 LBS/SQ. FT.  
WIND: 25 LBS/SQ. FT.  
SEISMIC ZONE: 2D
- ELECTRICAL SYSTEMS: AS SHOWN
- PLUMBING SYSTEMS: AS SHOWN
- MECHANICAL SYSTEMS: AS SHOWN
- ADA CODES REQUIRE ACCESSIBILITY FOR THE PHYSICALLY CHALLENGED. ACCESSIBILITY IS THE RESPONSIBILITY OF THE LOCAL USER. ANY RAMP STRUCTURE SHOULD BE APPROVED BY THE LOCAL BUILDING AUTHORITY.
- STATE INSPECTIONS: (3RD. PARTY) ICBO CERTIFIED

APPROVED BY: \_\_\_\_\_  
AS IS:  W/CHANGES:   
DATE: \_\_\_\_\_

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SCALE:  
1/4"=1'

**FLOOR PLAN**



**ELECTRICAL SPECIFICATIONS**

- ALL WIRING TO CODE(S) NOTED ON PAGE 1.
- ALL WIRING IN EMT & FLEX CONDUIT.  
ALL WIRES AND CONDUCTORS #12 OR LARGER.
- LIGHTS: SEE REFLECTED CEILING SPECS PAGE 3.
- SWITCHES:  
3 TOGGLE TYPE @ 42" AFF, WHITE.
- RECEPTACLES:  
● DUPLEX 15 AMP TYPE @ 18" AFF (UNO), WHITE  
● DOUBLE DUPLEX 15 AMP TYPE @ 18" AFF (UNO), WHITE  
○ PHANTOM LINE DENOTES RECEPTACLE CIRCUITS.

**MECHANICAL SPECIFICATIONS**

- ALL MECHANICAL TO 2003 IMC
- HVAC: 2-TON 'BARD' WALL MOUNT W/ 10 KW HEAT STRIPS. (TOTAL: 2);  
NOTE: HVAC UNITS TO HAVE OUTSIDE AIR DAMPERS FOR RETURN AIR.
- THERMOSTAT: TOP @ 48" AFF.
- SUPPLY AIR DUCT: 20"x8"x26 GA. GALVANIZED.
- DIFFUSERS: 12"x12" ADJUSTABLE IN ALL AREAS (TOTAL: 10).
- RETURN AIR: 20" X 12" WALL GRILLS AT HVAC ENDWALLS (TOTAL: 2).
- EXHAUST FANS: 300 CFM FAN TIED W/ LIGHTS. VENT THROUGH ROOF(TOTAL: 2).  
NOTE: SHIP CAPS LOOSE- COVER PIPE FOR SHIPPING

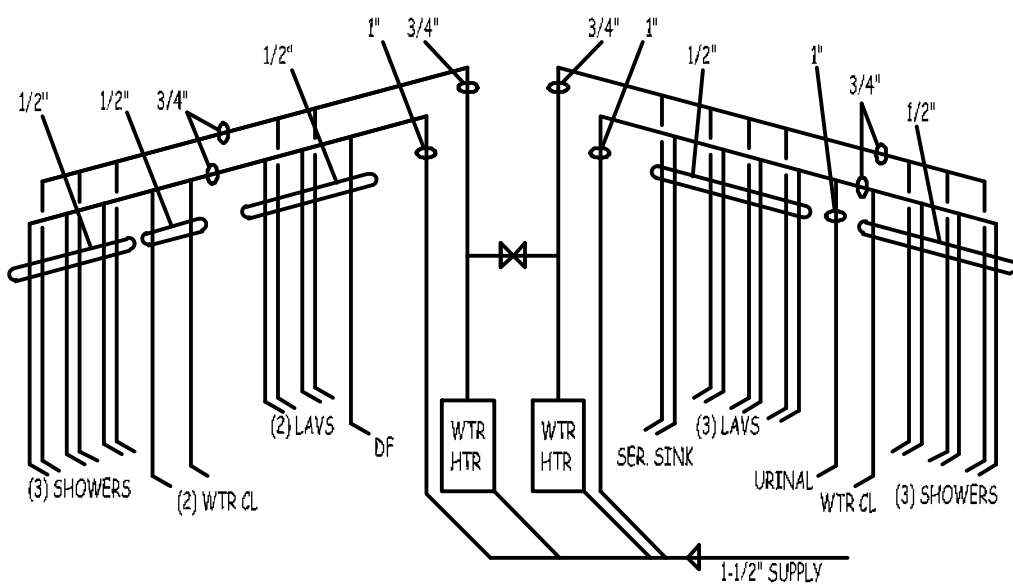
**PLUMBING SPECIFICATIONS**

- ALL PLUMBING TO 2003 IPC.
- WASTE LINES: ABS-DWV SCHEDULE 40, 4" MAIN DRAIN; MIN 3" VENTS THROUGH ROOF.
- WATER LINES: TYPE "M" COPPER, SWEAT FITTINGS. 1-1/2" SERVICE
- WATER CLOSET: ADA COMPLIANT 18" HIGH ELONGATED BOWL W/ SPLIT SEAT (TOTAL: 2);  
STANDARD ELONGATED BOWL W/ SPLIT SEAT IN NON-ADA STALL (TOTAL: 1).
- URINAL: STANDARD VITREOUS CHINA WALL HUNG STYLE W/ FLUSH VALVE (TOTAL: 1).
- LAVATORY: VITREOUS CHINA WALL HUNG STYLE (TOTAL: 4);  
FAUCET: LEVER TYPE 'MOEN'/EQUAL (TOTAL: 4).
- MOP SINK: 24" X 24" FLOOR MOUNT STYLE W/ BUCKET FILL STYLE FAUCET (TOTAL: 1).
- WATER COOLER: ELECTRIC WALL MOUNT STYLE; MOUNT FOR ADA (TOTAL: 1).
- FIBERGLASS SHOWERS: 36" X 36" ADA COMPLIANT FIBERGLASS STALL W/ SEAT, GRAB BARS, FAUCET & CURTAINS (TOTAL: 2);  
36" X 36" STANDARD FIBERGLASS STALL W/ CURTAINS (TOTAL: 4).
- WATER HEATER: 120 GAL. ELECTRIC, LOCATED WHERE SHOWN (TOTAL: 2).  
NOTE: PROVIDE SEISMIC BRACING & DRAIN PAN AS PER CODE
- PARTITIONS AS SHOWN (COLOR: GRAY).
- ACCESSORIES: GRAB BARS: ONE (1) 18" X 24" ABOVE EACH LAVATORY (TOTAL: 4);  
SEE DETAIL THIS PAGE, (TOTAL: 2/EACH);  
MIRRORS: ONE (1) 18" X 24" ABOVE EACH LAVATORY (TOTAL: 4);  
TOILET PAPER HOLDER: ONE (1) SINGLE ROLL HOLDER BY EACH WATER CLOSET, (TOTAL: 3);  
ADA PIPING PROTECTION: ONE (1) KIT PER LAVATORY; (TOTAL: 4).

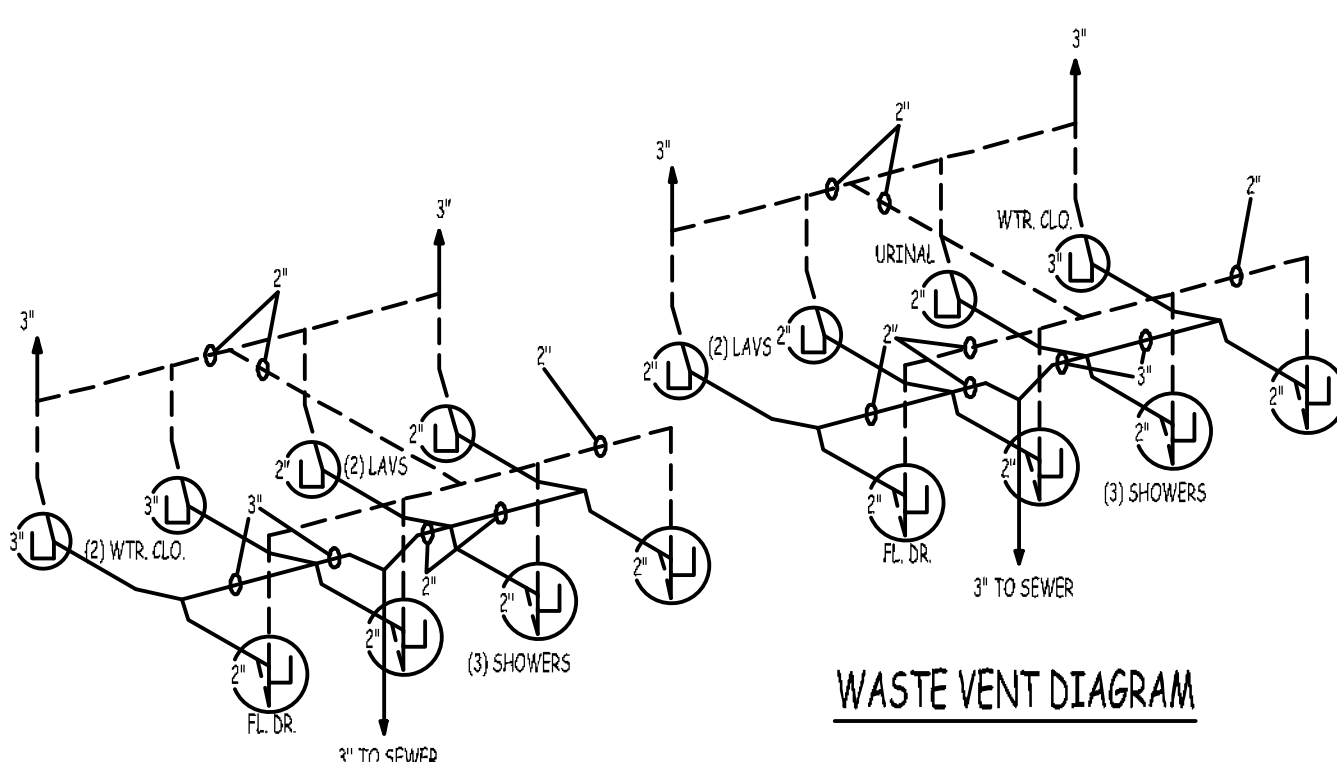
**MAIN PANEL LAYOUT**

CIR	AMP	WIRE#	A	B	WIRE#	AMP	CIR
* 1	60	6	●	●	6	60	2*
3			●	●			4
* 5	30	10	●	●	10	30	6*
7			●	●			8
* 9	20	12	●	●	12	20	10
11	20	12	●	●	12	20	12
13	20	12	●	●			14
15			●	●			16

MAIN PANEL: 20/40 INT. PANEL W/ 225 AMP MAIN BREAKER.  
120/240 VOLT, 1 PHASE, 60 HZ.  
MAIN SERVICE: 2" CONDUIT OUT BOTTOM, THROUGH FLOOR  
AIC: 20,000 OR BETTER.



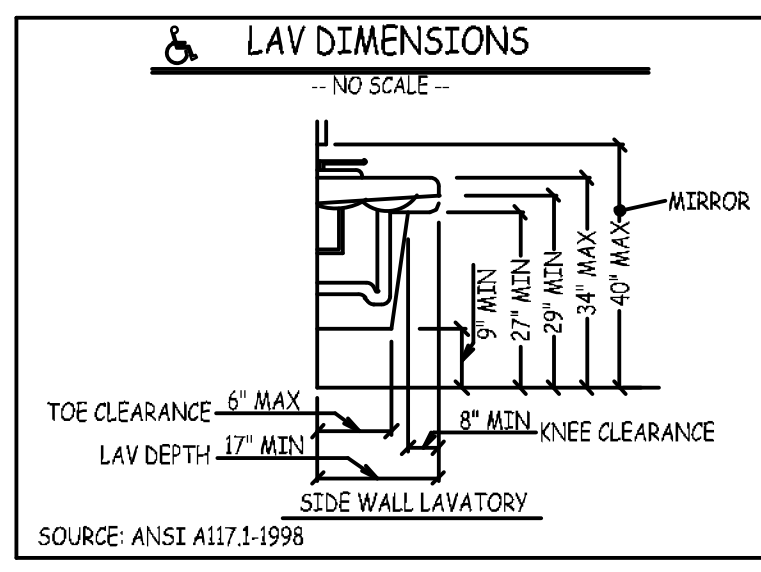
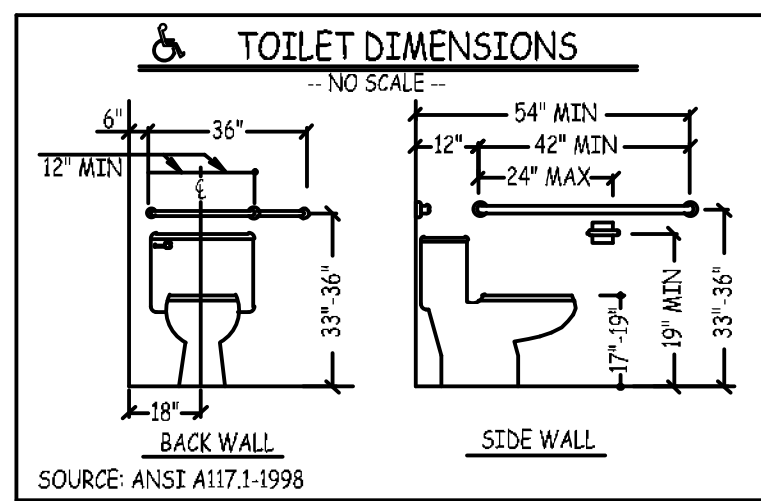
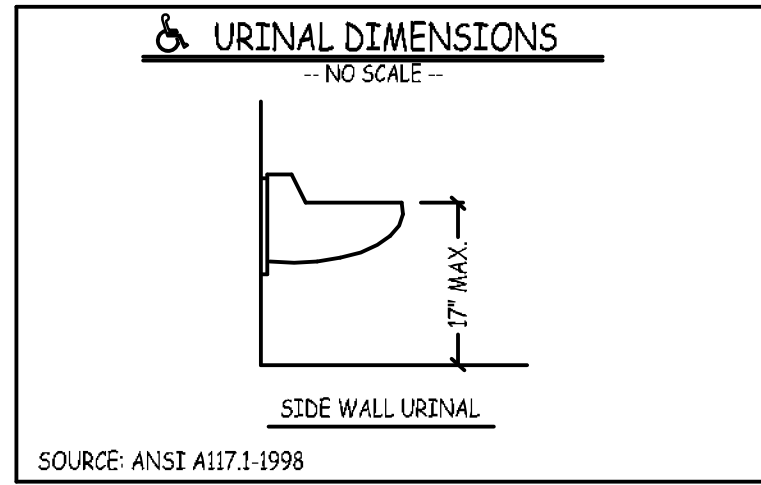
**WATER DISTRIBUTION DIAGRAM**



**WASTE VENT DIAGRAM**

**LEGEND**

ITEM	FIXT UNITS					SIZE	
	H	C	T	W	V	W	V
WTR CL.	-	15	15	18	18	3"	3"
URINAL	-	5	5	5	5	2"	2"
SHOWER	6	6	12	12	12	2"	2"
DRK FTN	-	2	2	2	2	2"	2"
LAVS	5	5	10	10	10	2"	2"
SRV. SINK	1	1	2	2	2	2"	2"
FL DRN	-	-	-	4	4	2"	2"
TOTALS	12	34	46	53	53	-	-



APPROVED BY: \_\_\_\_\_  
AS IS:  W/CHANGES:   
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SCALE: 1/4"=1'

**ELECTRICAL, MECHANICAL & PLUMBING PLANS**

REVISIONS

NO.	DATE
(1)	04/07/06
(2)	04/18/06
(3)	05/26/06
AS BUILT	08/03/06

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**PLUMBING, MECHANICAL & ELECTRICAL PLAN**

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**ADVANCED MODULAR MANUFACTURING**  
644 WEST 14600 SOUTH  
BLUFFDALE, UTAH, 84065  
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USMOD135

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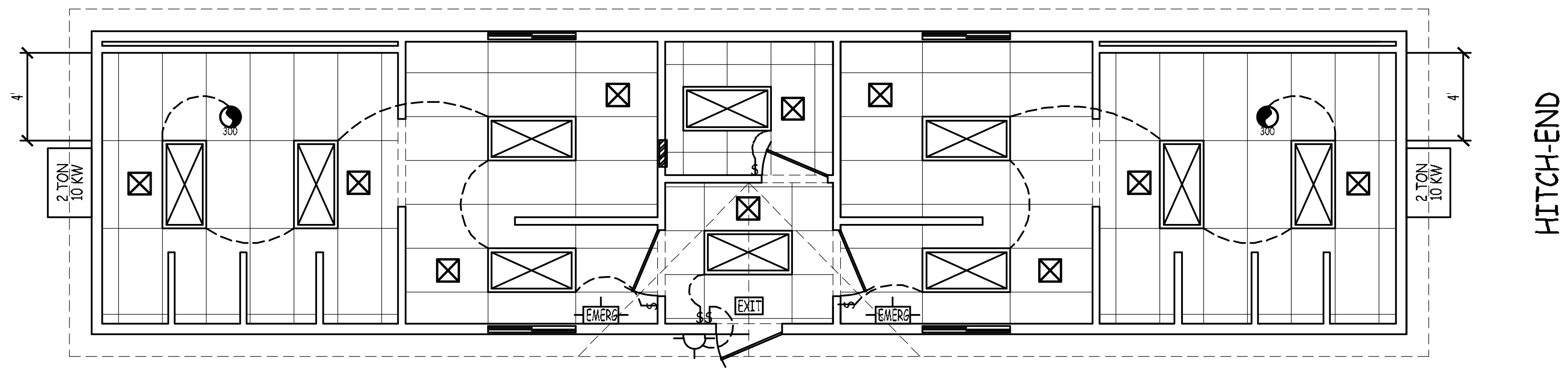
SHEET CONTENTS:  
**CEILING PLAN**

PROJECT TITLE:  
**14' x 60' SHOWER/CHANGE BUILDING  
 LAMBERT SCHOOL DISTRICT**  
 PRESENTED BY:  
**US MODULAR**

**ADVANCED MODULAR MANUFACTURING**  
 644 WEST 14600 SOUTH  
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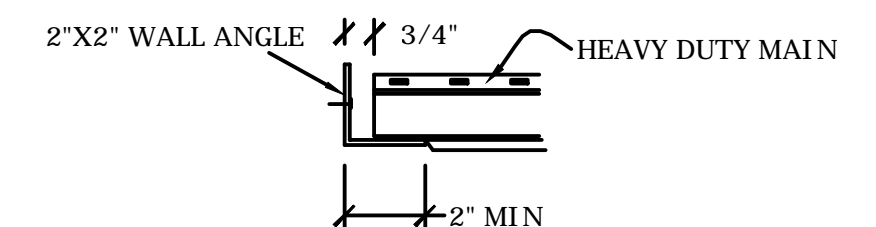
DATE:  
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SHEET  
**3 of 4**  
 USMOD135

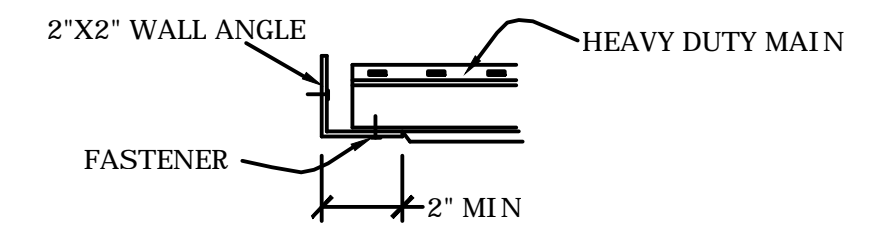


**REFLECTED CEILING SPECIFICATIONS**

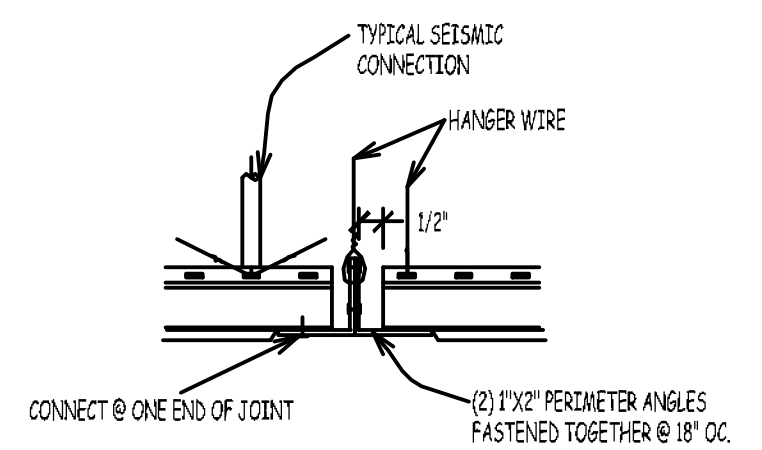
- REFLECTED CEILING TO UBC STANDARD 25-2.
- TYPICAL 2'x4' SUSPENDED T-GRID PATTERN.
- 2'x4' ACOUSTICAL CEILING TILES. "US6" RADAR # 2310 OR CELOTEX EQUAL.;  
NOTE: USE VINYL FACED FIBERGLASS TILES ABOVE THE SHOWERS.
- SUSPEND TRACK W/ #12 GAUGE WIRE.
- BRACE TRACK PER SEISMIC ZONE 2D.
- FINISH CEILING HEIGHT: 95" AFF.
- 2'x4' 2-TUBE (32W) FLOURESCENT LAY-IN TROOPER W/ DIFFUSER (TOTAL:10)
- PORCH LIGHT:  
 FACTORY STANDARD VANDAL-RESISTANT INCANDESCENT TYPE (100 W MAX) (TOTAL: 1).
- EMERGENCY LIGHT:  
 WALL MOUNT DUO-LIGHT W/ BATTERY BACK-UP (TOTAL: 2).
- EXIT LIGHT:  
 CEILING MOUNT, ELECTRIC ILLUMINATED W/ BATTERY BACK-UP (TOTAL: 1).
- EXHAUST FAN:  
 CEILING MOUNT 300 CFM, VENT THROUGH ROOF (TOTAL: 2).
- DASHED LINE DENOTES SWITCHING.



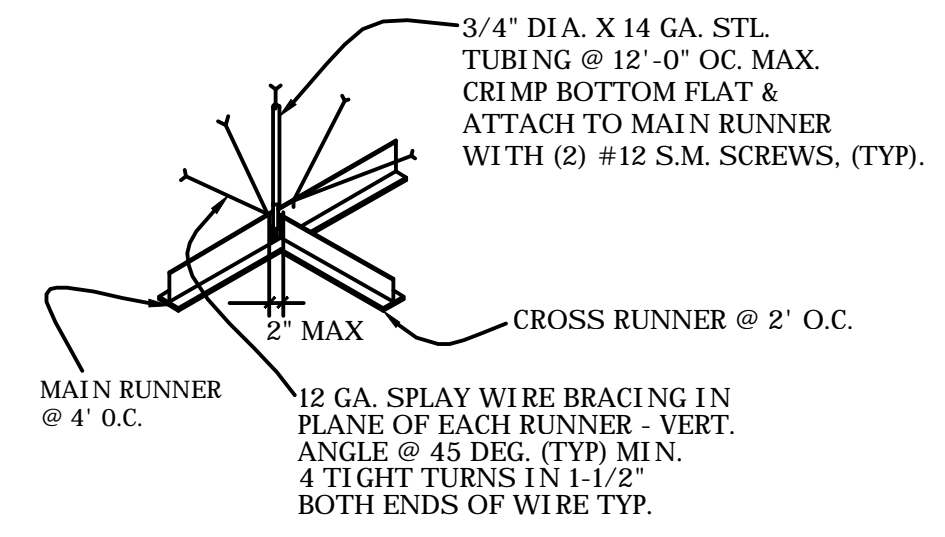
**FREE-END PERIMETER CONNECTION**  
 -- SCALE: NONE --



**RIGID PERIMETER CONNECTION**  
 -- SCALE: NONE --



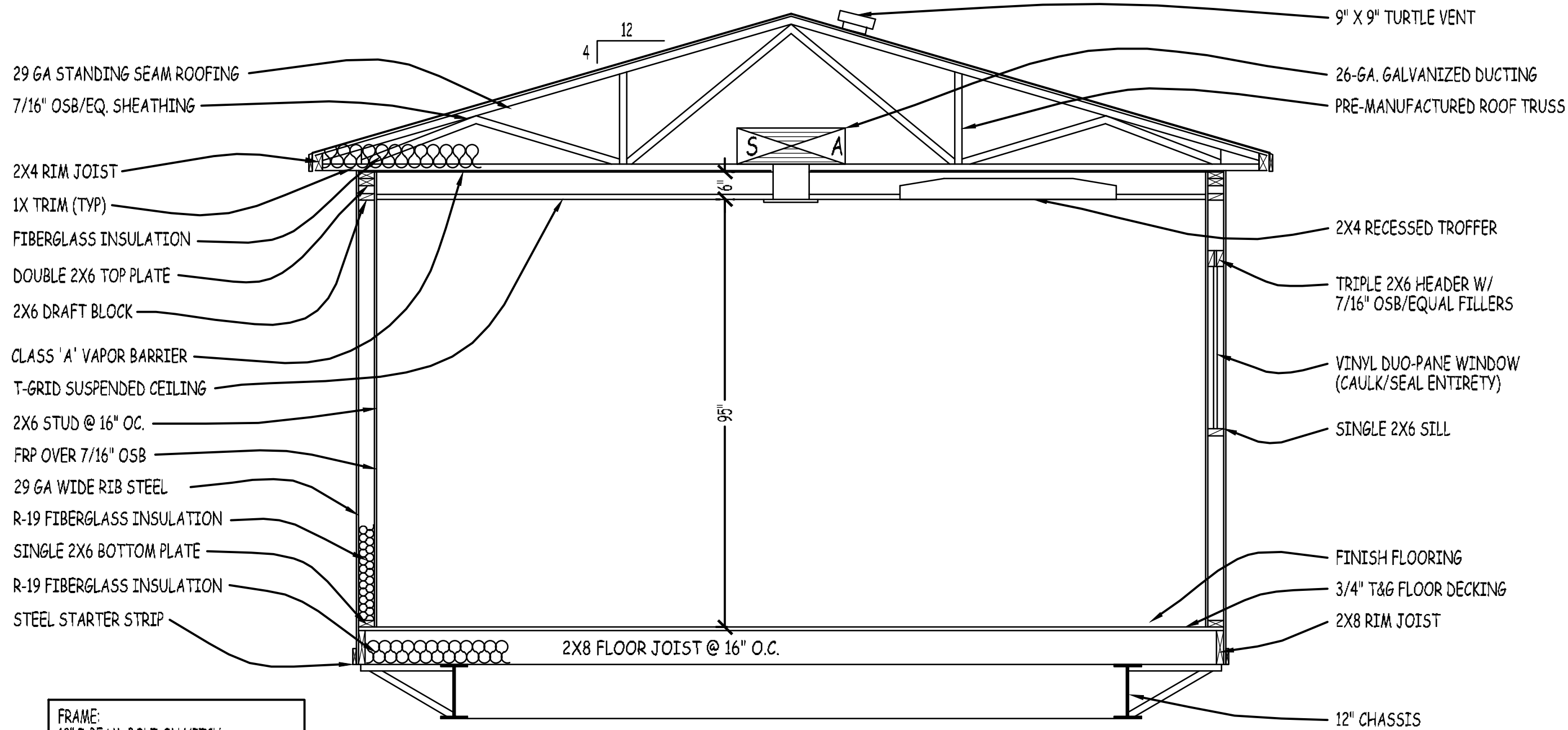
**TYPICAL EXPANSION JOINT**  
 -- SCALE: NONE --



**SEISMIC CONNECTION**  
 -- SCALE: NONE --

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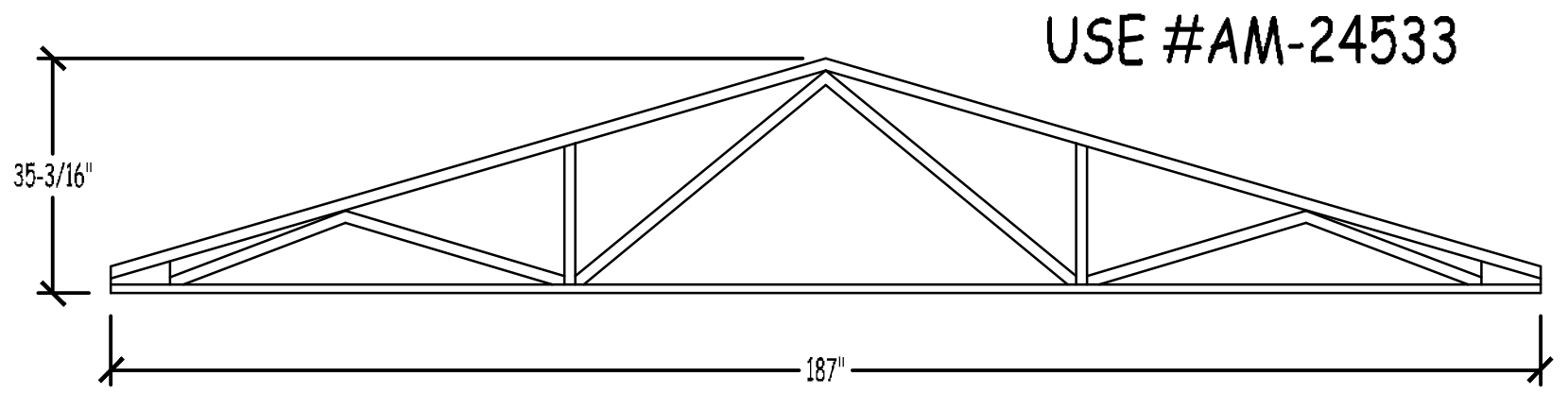
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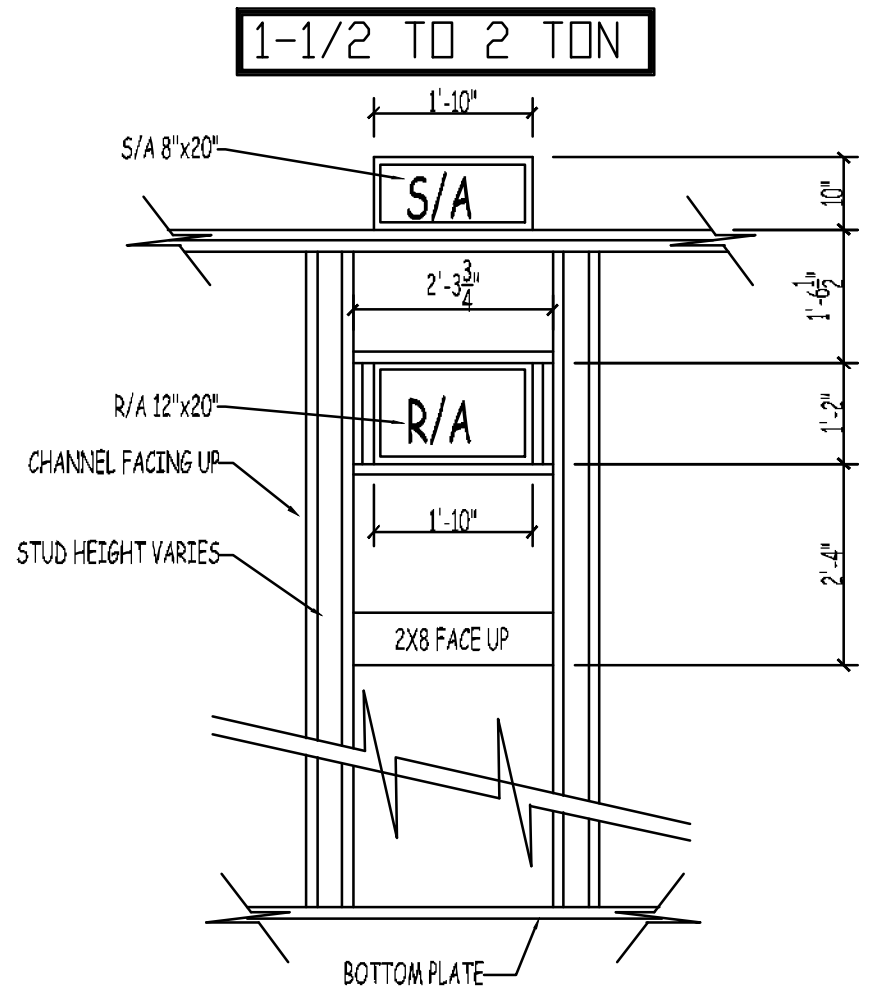
FASTENING SCHEDULE		
CONNECTION	FASTENING	SPACING
<b>FLOORS</b>		
1. FLOOR JOIST TO FRAME	3/8" X 3" LAG SCREW	32" OC.
2. RIM JOIST TO FLOOR JOIST	4 EACH 16d NAIL	16" OC.
3. DOUBLE RIM JOIST TO FLOOR JOIST	4 EACH 16d NAIL	16" OC.
4. 40 MIL CLASS 'A' VAPOR BARRIER	1-1/2" X 16-GAUGE STAPLE	8" OC.
5. FLOOR DECK TO FLOOR JOIST	8d SCREW SHANK NAIL	10" OC. FIELD. 6" OC. EDGES.
<b>WALLS</b>		
1. BOTTOM PLATE TO FLOOR	2 EACH 16d NAIL	16" OC.
2. STUD TO BOTTOM PLATE	16d NAIL- EXT: 3 EACH; INT: 2 EACH	
3. TOP PLATE TO STUD	16d NAIL- EXT: 3 EACH; INT: 2 EACH	
4. DOUBLE TOP PLATE TO STUD	2 EACH 16d NAIL	16" OC.
5. TOP PLATE LAP & INTERSECTION	16d NAIL- EXT: 3 EACH; INT: 2 EACH	
6. HEADER W/ FILLER	2 EACH 16d NAIL	16" OC. EDGES.
7. SILL TO STUD	2 EACH 16d NAIL	
8. STUD TO HEADER	EXT: 3 EACH 16d NAIL/EACH 2X6. INT: 2 EACH 16d NAIL/EACH 2X4.	
9. SILL TO STUD	EXT: 3 EACH 16d NAIL INT: 2 EACH 16d NAIL	
10. INTERIOR SHEATHING TO STUD		
11. INTERIOR PANEL TO STUD	PANELING STAPLES CONSTRUCTION ADHESIVE	4" OC. EDGES. 8" OC. FIELD.
12. EXTERIOR SHEATHING TO STUD	N.A.	
13. EXTERIOR SIDING TO STUD	8d GALVANIZED NAILS	10" OC. FIELD. 6" OC. EDGES.
14. 1X TRIM TO EXTERIOR SIDING	8d GALVANIZED NAILS	8" OC. FIELD.
15. WALL TIE-IN TO FLOOR	EXTERIOR SIDING	
16. INTERIOR TRIM	4d FINISH NAILS	8" OC. FIELD.
<b>ROOF</b>		
1. RIM JOIST TO TOP PLATE	16d TOE-NAIL	6" OC.
2. RIM JOISTS TO RAFTER	2 EACH 16d NAIL	16" OC.
3. CEILING TO RAFTER	#12 WIRE W/ LAG FASTENER	AS PER 2003 IBC
4. ROOF SHEATHING TO RAFTER	8d NAIL OR EQUAL STAPLE	10" OC. FIELD. 6" OC. EDGES.
4. ROOFING TO ROOF	COMPATIBLE W/ ROOFING	PER MFG. SPECS
5. WALL TIE-IN TO ROOF	EXTERIOR SIDING	
6. ROOF CAP TO ROOF @ MODULE LINE	COMPATIBLE W/ ROOFING	CONTINUOUS

FRAME:  
12" I-BEAM, BOLT-ON HITCH  
1-1/2" CROSSMEMBER @ 8'-0" OC.  
1-1/2" OUTRIGGER @ 4'-0" OC.

**CROSS SECTION**

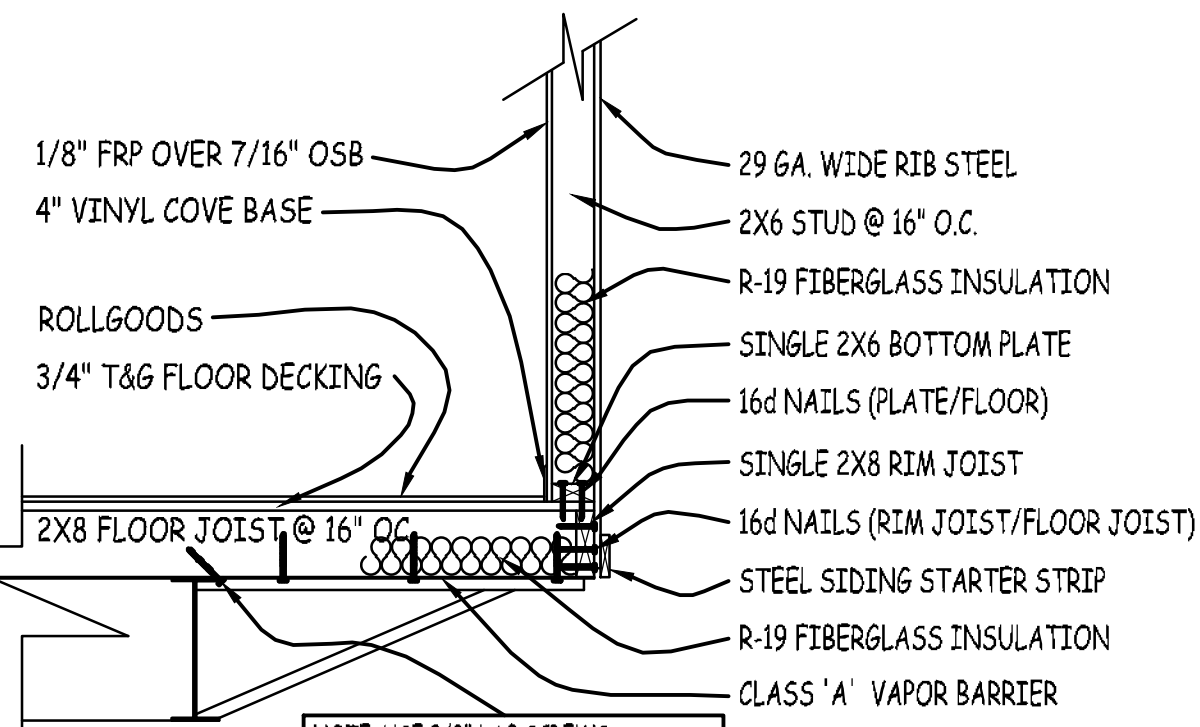


**TRUSS DETAIL**



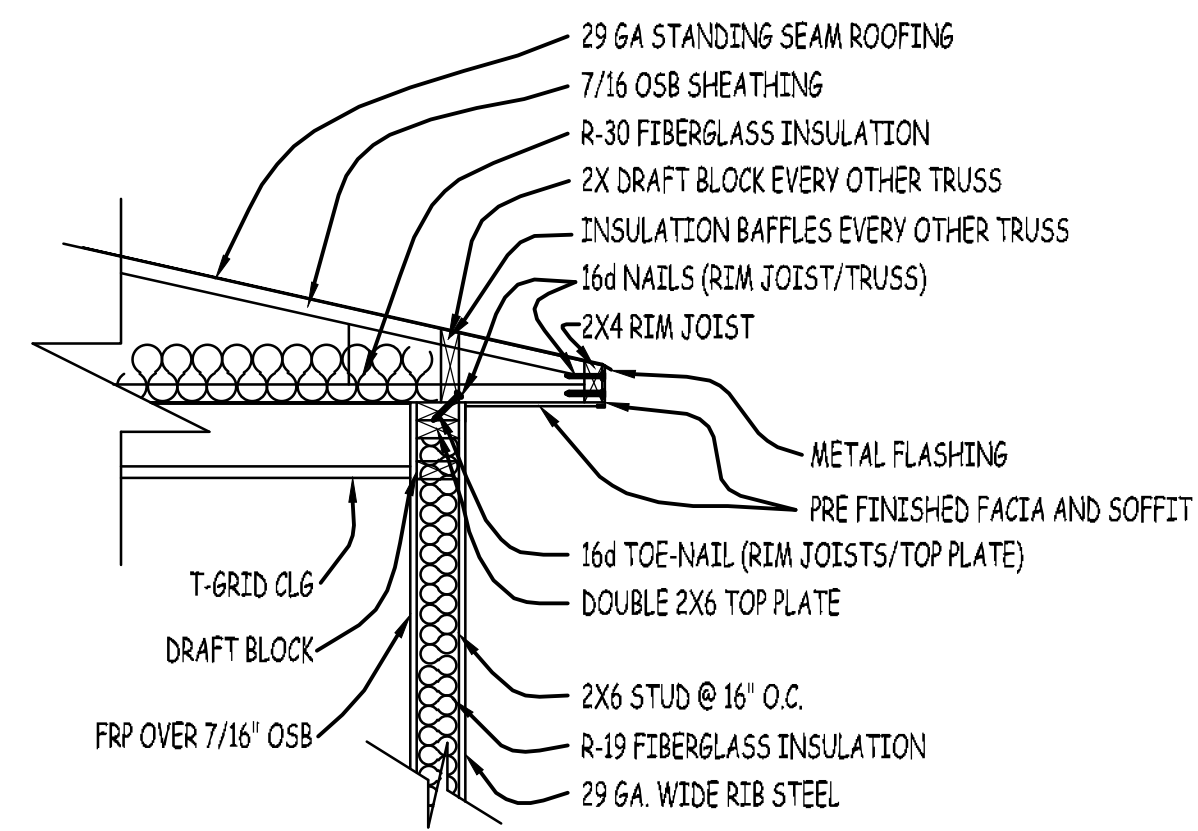
**STRUCTURAL NOTES:**

- PREMANUFACTURED ROOF TRUSSES PLACE @ 16" O.C.
- STRUCTURAL LUMBER REQUIRED:  
A. FLOOR JOISTS: 2X8 @ 16" O.C.  
B. WALL STUDS: EXT: 2X6 SPF STUD GRADE; INT: 2X4 SPF STUD GRADE; ADDITIONAL 2X'S: SPF #2/BETTER.  
ALL SHEATHING: APA RATED.
- FLOOR DECKING: 3/4" T&G; 24" MINIMUM SPAN INDEX APA RATED.
- WALL SHEATHING: NONE.
- ROOF SHEATHING: 7/16" APA RATED OSB/EQUAL W/ 24" SPAN INDEX.
- STRUCTURAL MEMEBERS CANNOT BE RIPPED OR ALTERED W/ OUT PRIOR APPROVAL FROM ENGINEER ON RECORD.

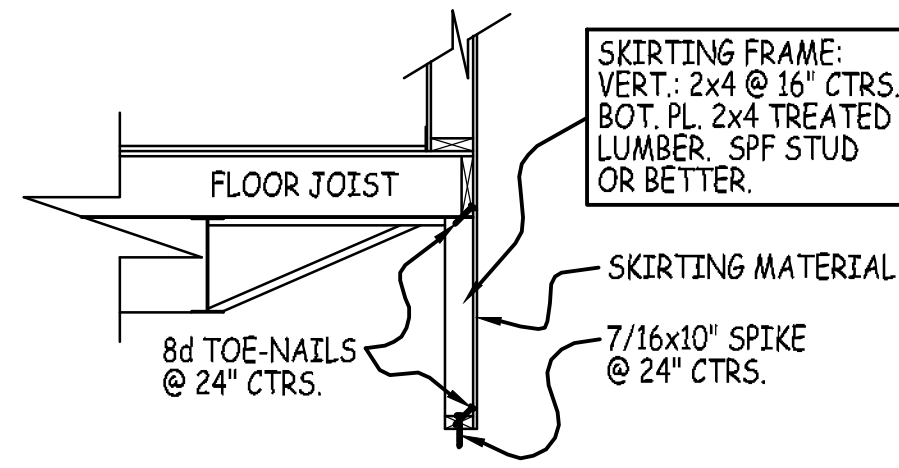


NOTE: USE 3/8" LAG SCREWS TO BOLT I-BEAM TO FLOOR JOISTS. STAGGER @ 32" OC.

**WALL TO FLOOR**



**WALL TO ROOF**



**SKIRTING DETAIL**

SCALE: NONE

**CROSS SECTION**

APPROVED BY: \_\_\_\_\_

AS IS:  W/CHANGES:

DATE: \_\_\_\_\_

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REVISIONS: \_\_\_\_\_

SHEET CONTENTS: **CROSS SECTION & DETAILS**

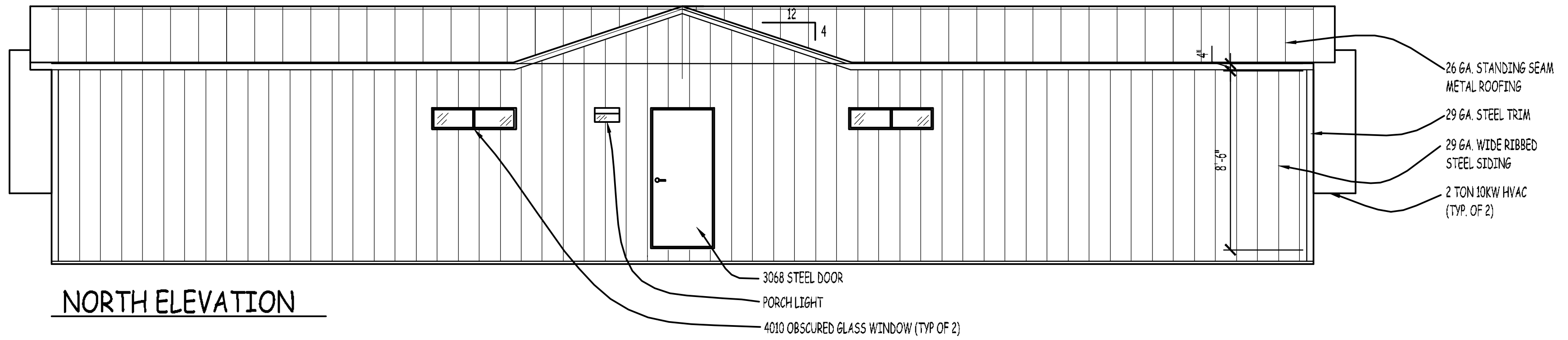
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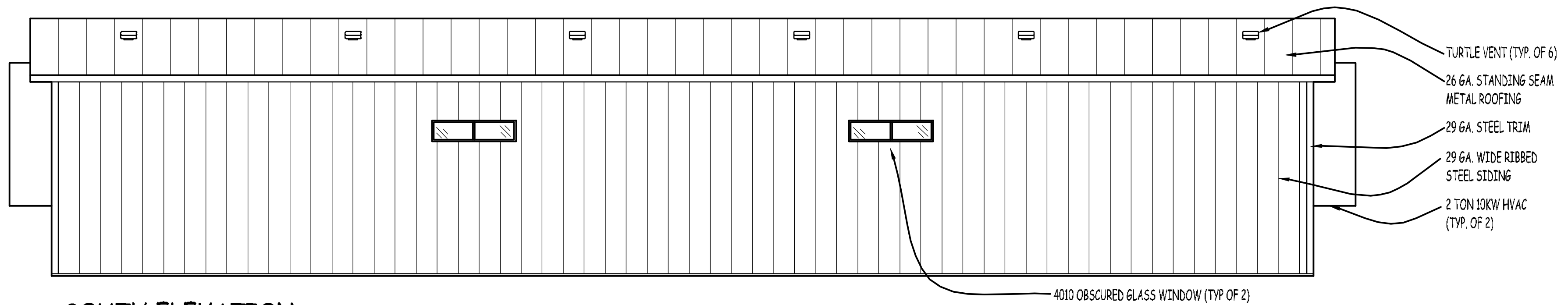
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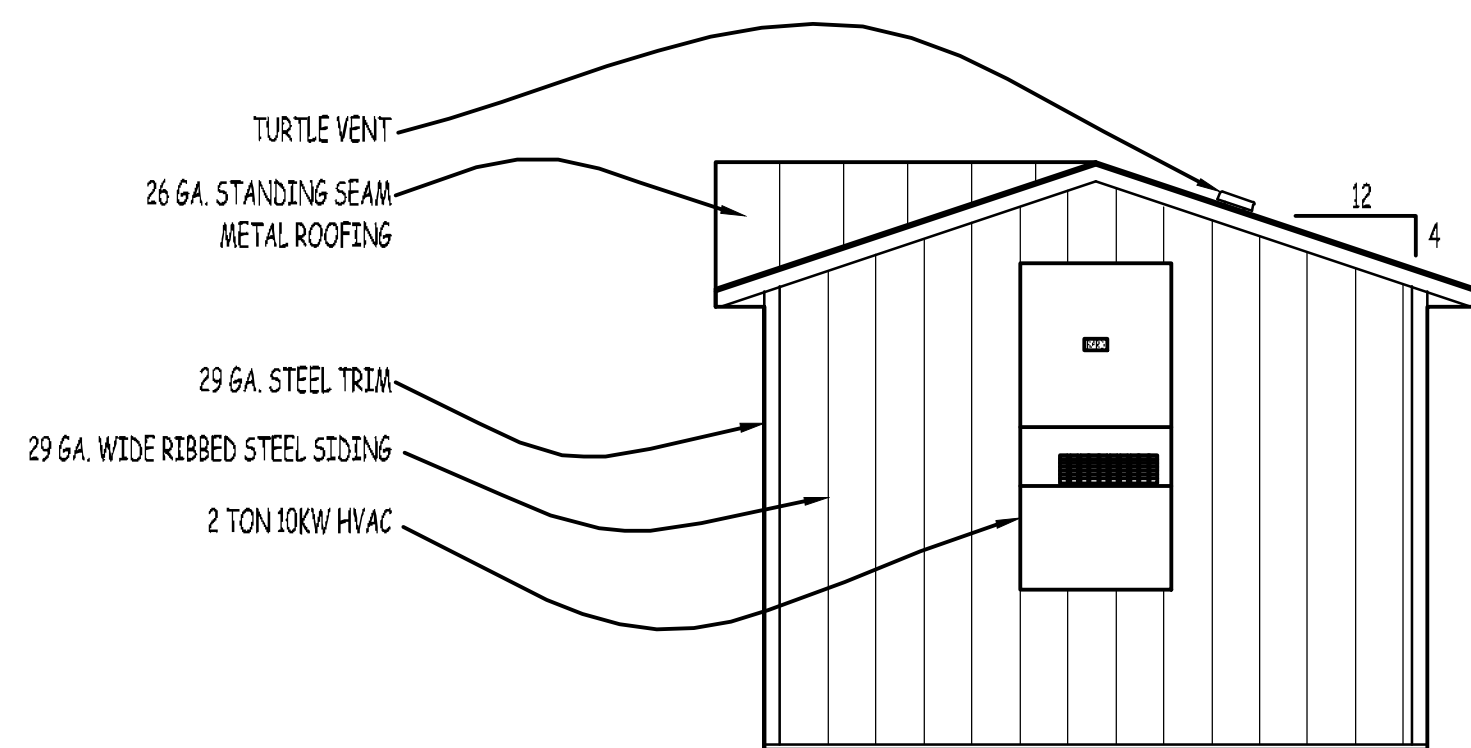
SHEET **4 of 4**  
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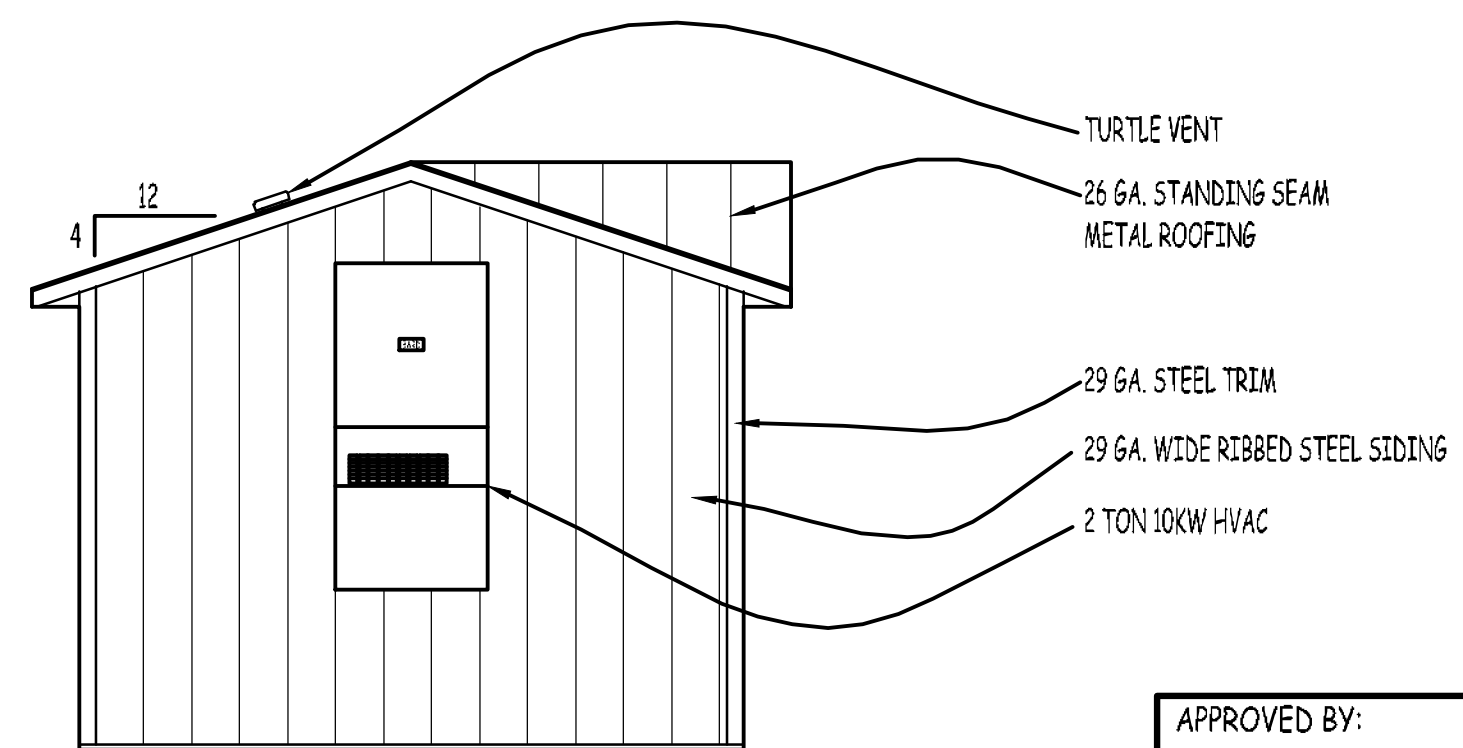
NORTH ELEVATION



SOUTH ELEVATION



EAST ELEVATION



WEST ELEVATION

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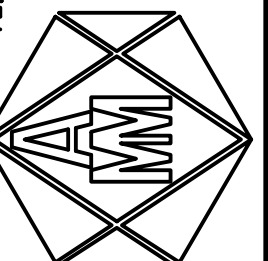
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SHEET CONTENTS:  
**ELEVATIONS**

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SHEET  
**5 of 5**  
USMOD135

SCALE:  
NONE

**ELEVATIONS**