

# 48 0 / A MODULAR GUARD BOOTH

(4' x 8' ACTUAL SIZE)

PLAN B

## OHIO DESIGN CODES

2005 OHIO BUILDING CODE  
 2005 OHIO MECHANICAL CODE  
 2005 OHIO PLUMBING CODE  
 2005 NATIONAL ELECTRICAL CODE

## DESIGN LIVE LOADS

FLOOR:..... 50 PSF LIVE LOAD  
 10 PSF DEAD LOAD

ROOF:..... 40 PSF LIVE LOAD  
 10 PSF DEAD LOAD

CONSTRUCTION TYPE:..... 5B  
 OCCUPANCY/USE GROUP: B  
 BUILDING AREA:..... 32 SQ FT.  
 MINIMUM BUILDING  
 SET BACK:..... GREATER THAN 10 FEET TO A  
 COMMON OR ASSUMED PROPERTY LINE

SEISMIC ZONE:..... GROUP I, CATEGORY C  
 MAXIMUM WIND LOAD:..... 90 MPH, EXPOSURE C  
 OCCUPANT LOAD:..... 1

## DRAWING INDEX

DRAWING NUMBER	DESCRIPTION
#1	SPECIFICATIONS
#2	ELEVATIONS
#3	FLOOR / ELECTRICAL PLAN
#4	CROSS SECTION / BLOCKING POINTS PLAN

### SPECIAL LIMITATIONS:

ADEQUATE HANDICAPPED RESTROOM FACILITIES TO HANDLE THE ADDITIONAL OCCUPANT LOAD CREATED BY THE ADDITION OF THIS BUILDING TO A SITE SHALL BE PROVIDED IN AN ADJACENT BUILDING ON THE SAME PROPERTY. THE LOCAL OFFICIAL HAVING JURISDICTION SHALL VERIFY THE EXISTING FACILITIES.

TITLE: COVER SHEET	DRAWN BY: R.M.	DATE: 9/18/06	JOB NO: 2006-271
MODEL: 48 0/A GUARD BOOTH	REV: 10/3/06	SCALE: NTS	DRAWING NO: CVR

TWIN MODULAR SERVICES, INC.  
 10 INDUSTRIAL HWY., MS #26, BLDG. H3A, LESTER, PA 19113

CHASSIS

TYPE: PERIMETER  
MAIN BEAM: 6" JR. I-BEAM  
CROSS MEMBERS: 6" JR. I-BEAM @ 24" O.C.  
PAINT: ASPHALT BASED

FLOOR

INSULATION: NONE  
DECKING: 3/4" PLYWOOD, 24 O.C. SECURED DIRECTLY TO STEEL FRAME  
COVERING: 1/8"x12"x12" VINYL TILE  
OPTION: 3/16" STEEL PLATE FLOOR W/ NON-SKID PAINT  
TRIM: 4" VINYL COVE BASE

EXTERIOR WALLS

STUDS: 2"x4" STUD GRADE SPF @ 16" O.C.  
BOTTOM PLATE: SINGLE 2"x4" #3 SPF  
TOP PLATE SINGLE 2"x4" #3 SPF  
WALL HEIGHT: 8'-3"  
FINISHED CEILING HT: 7'-9" A.F.F.  
INSULATION: R-13 FIBERGLASS KRAFT-BACKED BATTS  
INT. WALL COVERING: 1/4" VINYL COVERED PANEL (CLASS III)  
INT. WALL COVERING OPTION: 1/2" VINYL COVERED GYP. (CLASS I)

ROOF

TYPE: RAFTER, 2x4 WOOD @ 16" O.C.  
CEILING: 2'x4' T-GRID DROP CEILING @ 7'-9" A.F.F.  
INSULATION: R-13 KRAFT FACED FIBERGLASS BATTS  
OPTION: 6" OVERHANG

ELECTRICAL

MAIN DISTRIBUTION PANEL: EXTERIOR (WEATHERPROOF) 100 AMP 120/240 VOLT SINGLE PHASE, 3 WIRE, 60 HZ. WITH GROUND  
RACEWAY: MINIMUM #14/2 W/ GROUND 90 DEG. C. TYPE MC, COPPER  
INTERIOR LIGHTS: 2'x4' TWO TUBE LAY-IN FLUORESCENT TROFFER PER PRINT  
EXTERIOR LIGHTS: 60 WATT PORCH LIGHTS (WEATHERPROOF)  
SWITCHES: 120 V. 15 AMP SINGLE POLE PER PRINT  
RECEPTACLES: 120 V. 15 AMP DUPLEX RECEPPTS PER PRINT  
OPTION: ADDITONAL RECEPTACLES  
OPTION: EXTRA EXTERIOR LIGHTING  
OPTION: INTERIOR RECESSED ELECTRICAL PANEL, 100 AMP

H.V.A.C.

HEATING: 220V, 20 AMP, 4' ELEC. BASEBOARD HEATER, DEDICATED CIRCUIT  
AIR CONDITIONING: 110V, 6500 BTU WALL MOUNT  
OPTION: HEAT / AIR CONDITIONER COMBINATION UNIT

EXTERIOR WINDOWS & DOORS

DOORS: 36"x80" ALUM. DOOR, ALUM. FRAME, FOAM INSULATED W/ 14"x14" S.G., LEVER PASSAGE HARDWARE  
OPTION: 36"x80" STEEL DOOR W/ 22"x30" WINDOW (S.G.), LEVER HARDWARE

WINDOWS: 36"x39" HORIZONTAL SLIDER, ALUM. MILL FINISH, SINGLE GLAZE  
30"x39" HORIZONTAL SLIDER, ALUM. MILL FINISH, SINGLE GLAZE  
OPTION: VINYL CLAD, THERMAL PANE WINDOWS

**OPTION: 36" X 80" HEAVY DUTY STEEL SLIDING DOOR WITH 22" X 28" VISION AND 6" OVERHANG ALL SIDES**

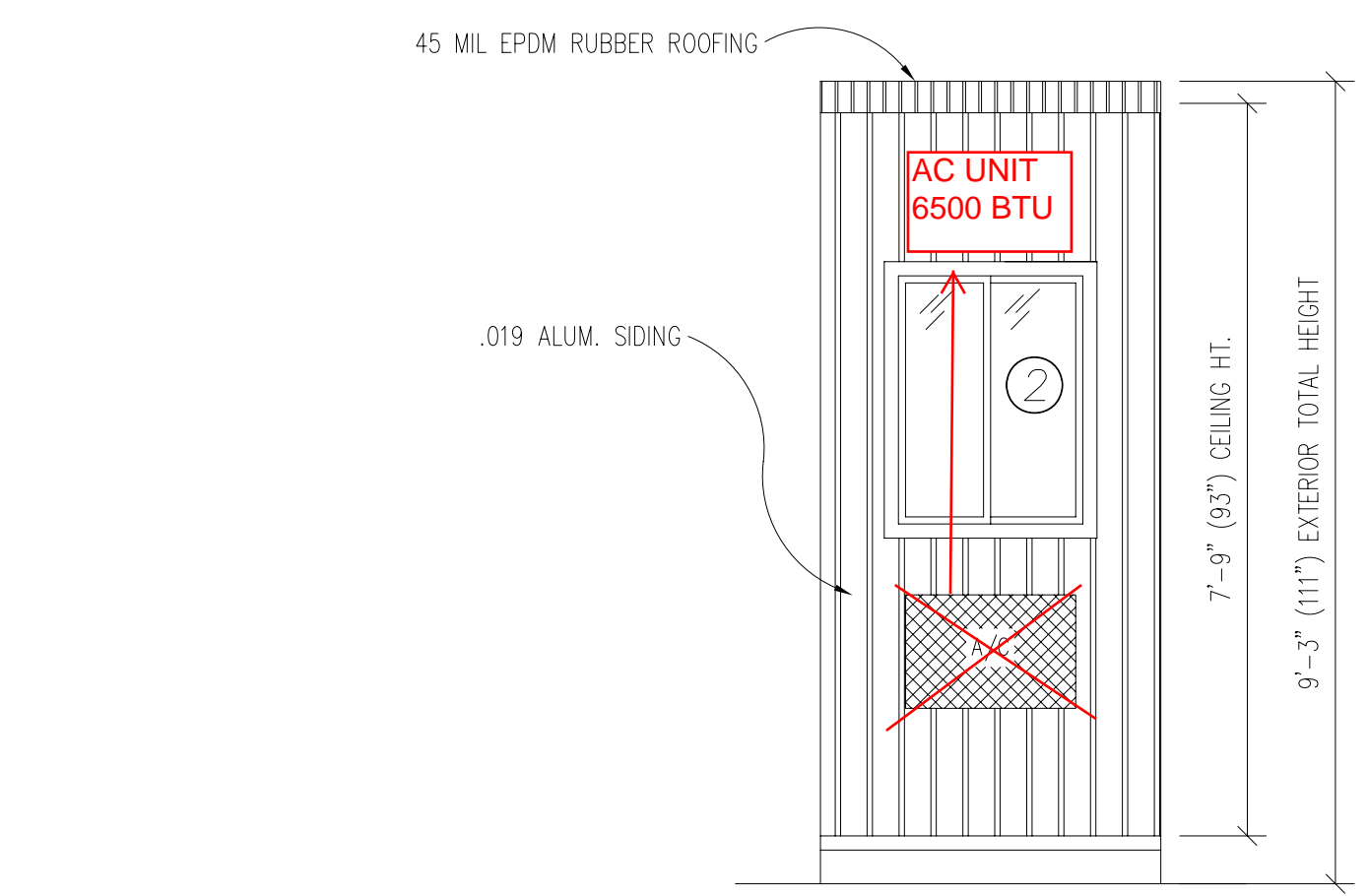
EXTERIOR FINISHES

SIDING: .019 ALUMINUM  
TRIM: .019 ALUMINUM  
WALL SHEATHING: 7/16" OSB OR CDX PLYWOOD, 16/0 SPAN INDEX RATING  
ROOF SHEATHING: 1/2" CDX PLYWOOD, 16/0 SPAN RATING  
ROOF: .45 EPDM RUBBER ROOFING

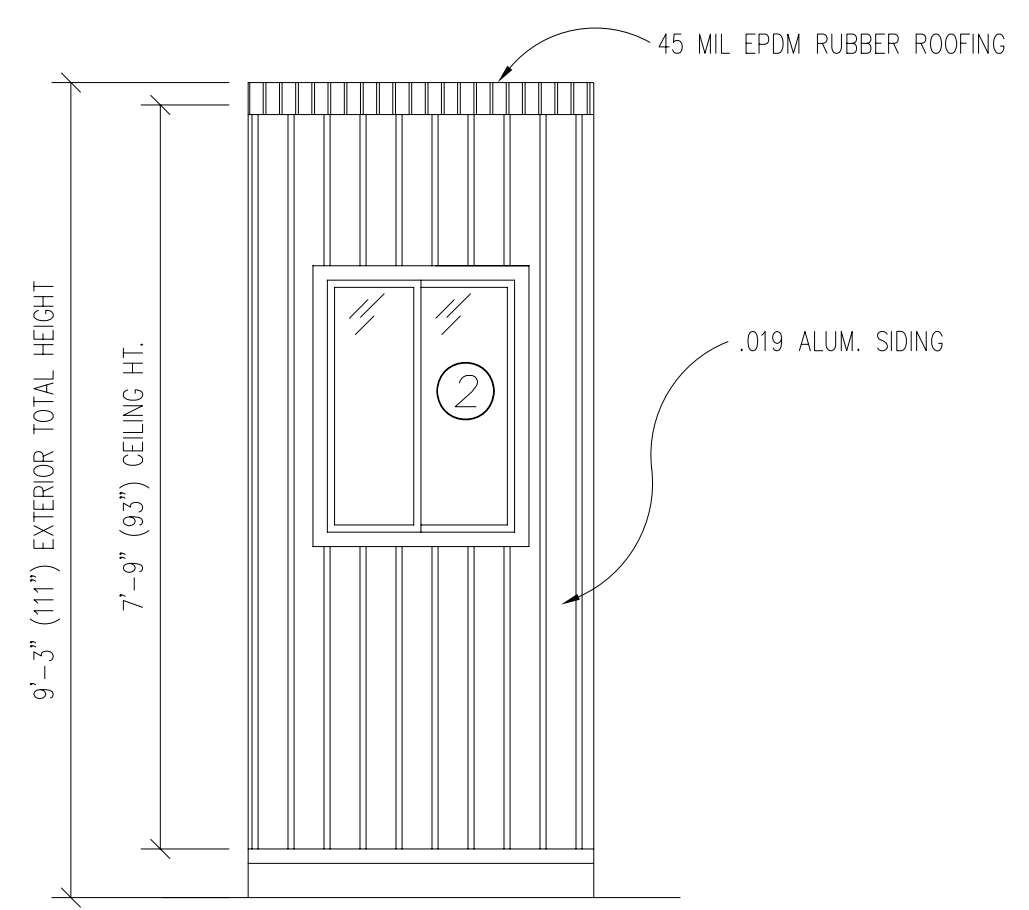
FURNITURE

OPTION: 2'-0" x 3'-4" COUNTER TOP - WHITE MICA

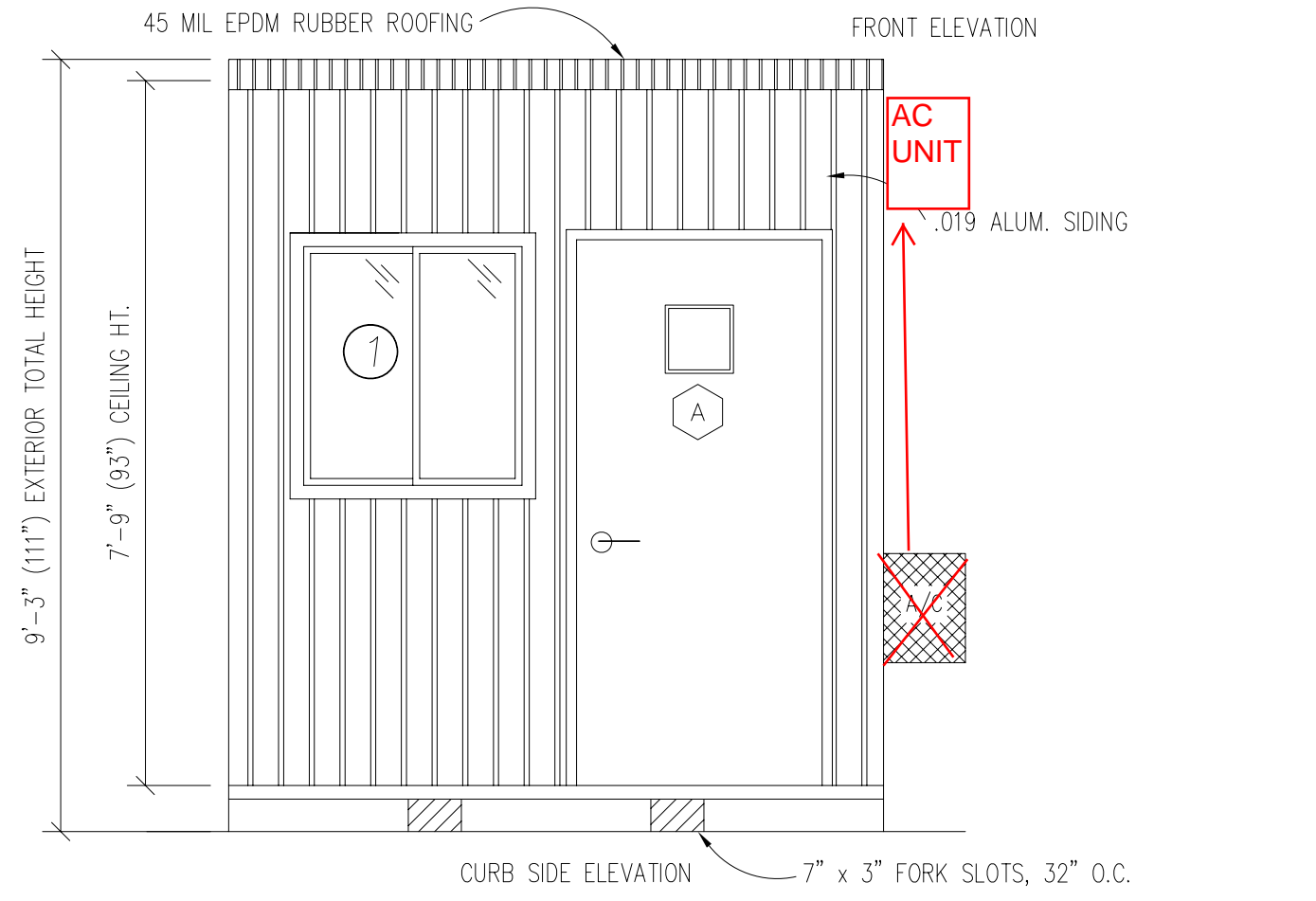
TITLE:	SPECIFICATIONS	DRAWN BY:	R.M.	DATE:	9/18/06	JOB NO:	2006-271
MODEL:	48 O/A GUARD BOOTH	REV:	10/3/06	SCALE:	NTS	DRAWING NO:	1
TWIN MODULAR SERVICES, INC.				10 INDUSTRIAL HWY., MS #26, BLDG. H3A, LESTER, PA 19113			



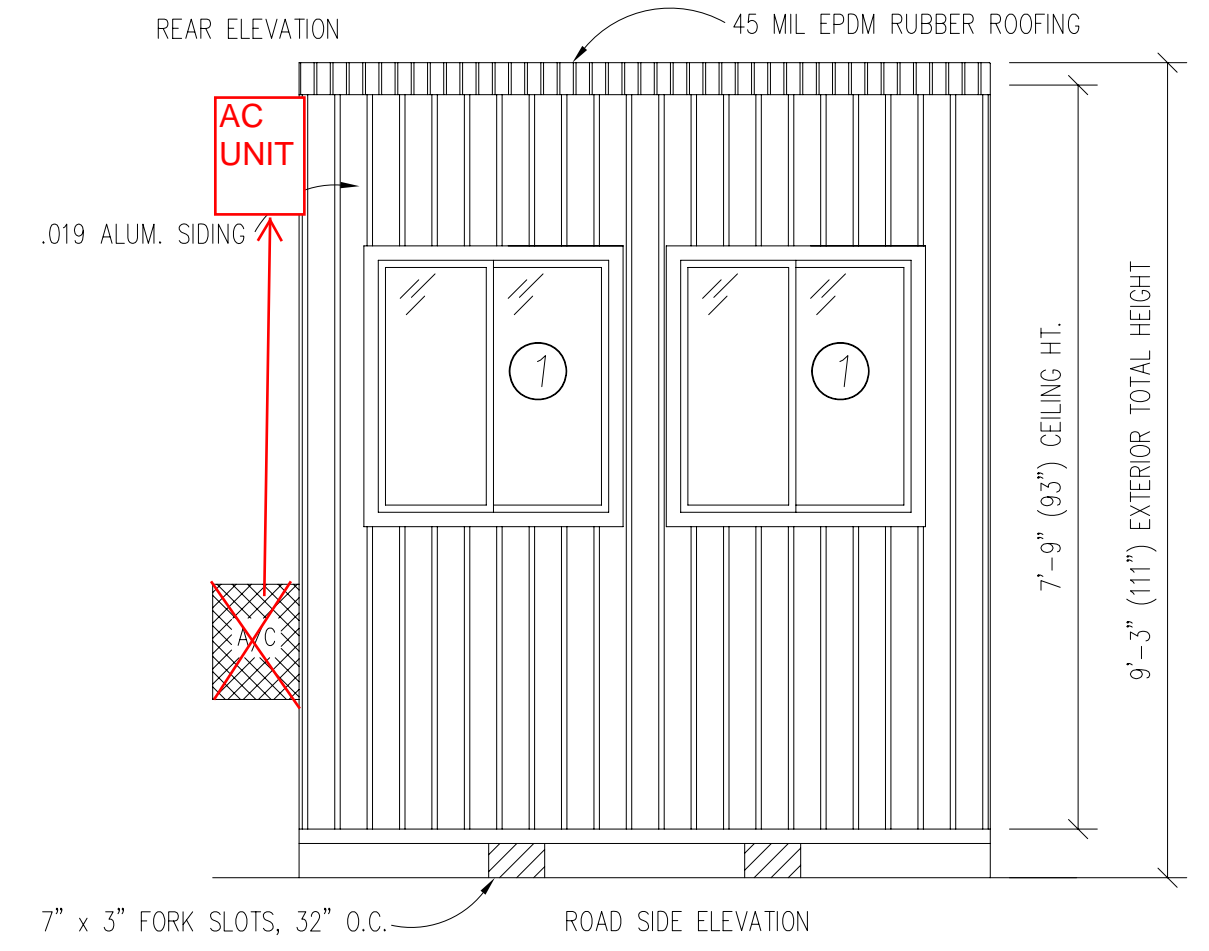
FRONT ELEVATION



REAR ELEVATION

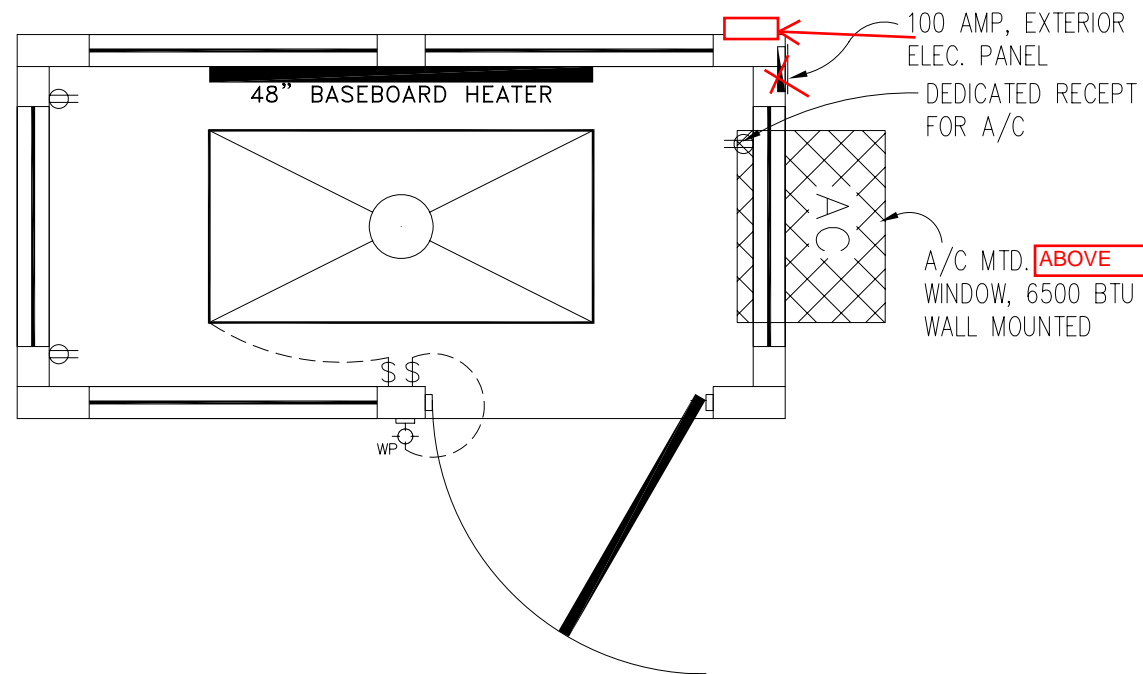


CURB SIDE ELEVATION

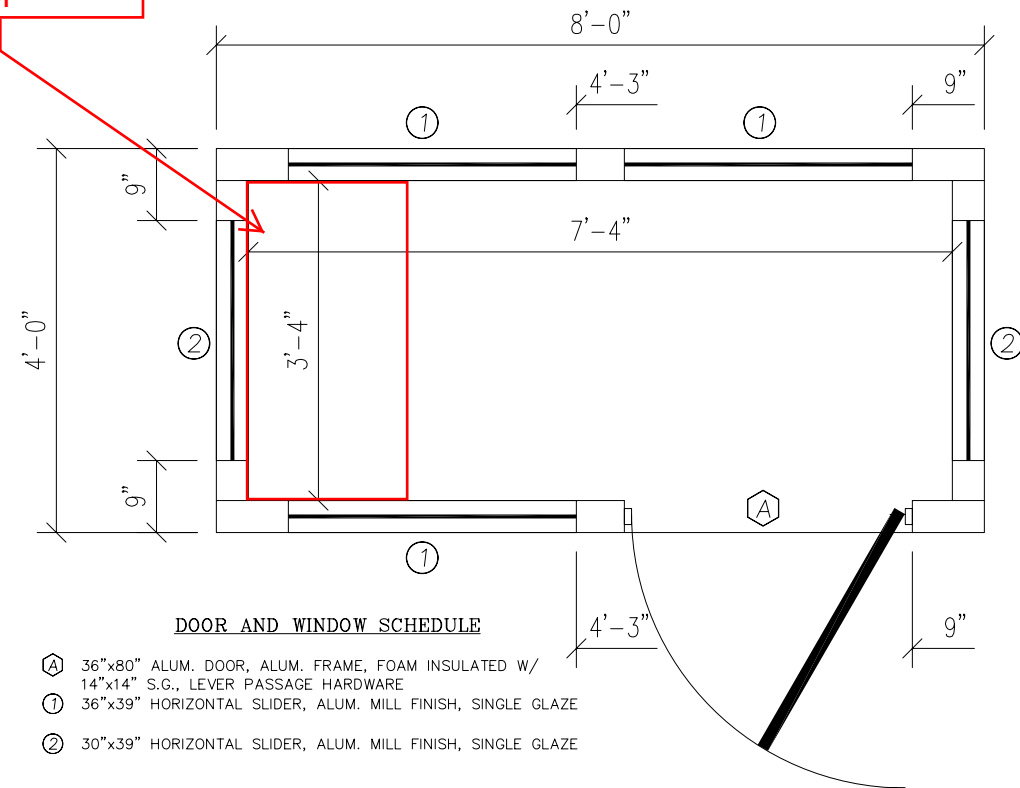


ROAD SIDE ELEVATION

TITLE:	ELEVATIONS	DRAWN BY:	R.M.	TWIN MODULAR SERVICES, INC.	DATE:	9/18/06	JOB NO.:	2006-271
MODEL:	48 O/A GUARD BOOTH	REV.:	10/3/06	10 INDUSTRIAL HWY., MS #26, BLDG. H3A, LESTER, PA 19113	SCALE:	1/4"=1'-0"	DRAWING NO.:	2



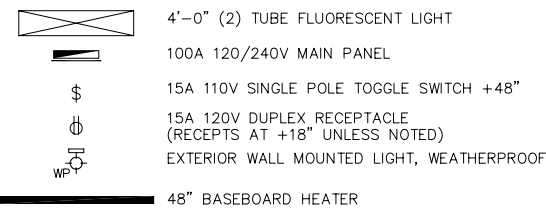
DESK TOP



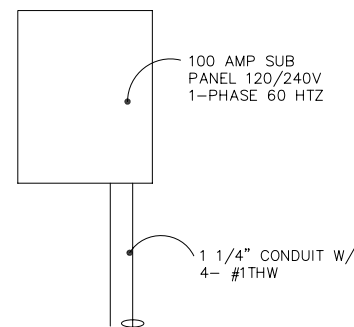
**ELECTRICAL**

1. ALL RECEPTACLES TO BE GROUNDING TYPE.
2. ALL WIRING TO BE PER THE EDITION OF THE NEC LISTED ON THE COVER PAGE, TYPE MC (CU) W/ GROUND.
3. MAIN PANEL TO BE MARKED "SUITABLE FOR USE AS SERVICE EQUIPMENT", AND BE EQUIPPED W/ BREAKER/FUSE TYPE OVERCURRENT PROTECTION.
4. PROPER THERMAL OVERLOAD PROTECTION TO BE PROVIDED FOR ALL MOTORS.
5. DISCONNECTING MEANS WITHIN SIGHT REQUIRED FOR ALL MOTORS.
6. WEATHERPROOF PROTECTION REQUIRED FOR ALL OUTDOOR LIGHTS, RECEPTACLES AND DISCONNECTS.
7. PROPER WORKING CLEARANCES TO BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT.
8. ALL FLUORESCENT FIXTURES REQUIRE THERMAL PROTECTION AND PROPER CLEARANCES FROM INSULATION, ALSO APPLICABLE FOR INCANDESCENT FIXTURES.
9. COMBINATION EXHAUST FAN/LIGHT AND ALL RECESSED INCANDESCENT FIXTURES TO BE WITH THERMAL PROTECTION.
10. EXIT LIGHTS (IF ELECTRIC) MUST BE FED FROM AN APPROVED EMERGENCY SERVICE CONNECTED AHEAD OF, BUT NOT WITHIN MAIN SERVICE DISCONNECTION MEANS ENCLOSURE, AND INSTALLED AS PER SERVICE REQUIREMENTS, OR BE BATTERY BACKUP TYPE UNITS.
11. SERVICE CONDUCTORS, LOCATED WITHIN THE PERIMETER OF THE BUILDING, SHALL BE INSTALLED IN ACCORDANCE WITH ARTICLE 230-6, PER THE EDITION OF THE NEC LISTED ON THE COVER PAGE.
12. MAXIMUM 15 (2) TUBE FLOURESCENT LIGHTS ON 15A CIRCUIT, MAXIMUM 10 RECEPTS ON 15A CIRCUIT, MAXIMUM 7 (4) TUBE FLOURESCENT LIGHTS ON 15A CIRCUIT.
13. MAXIMUM 20 (2) TUBE FLOURESCENT LIGHTS ON 20A CIRCUIT, MAXIMUM 13 RECEPTS ON 20A CIRCUIT, MAXIMUM 10 (4) TUBE FLOURESCENT LIGHTS ON 20A CIRCUIT.

**ELECTRICAL LEGEND**



AMPACITIES OF INSULATED CONDUCTORS 90°C WIRE COPPER	
AWG	MAXIMUM AMPACITY
14	15 AMP
12	20 AMP
10	30 AMP
8	50 AMP
6	65 AMP
4	85 AMP
3	100 AMP
2	115 AMP
1	130 AMP



TYP. 100 AMP ELECTRICAL RISER DIAGRAM  
N.T.S.

TITLE: FLOOR / ELECTRICAL PLAN  
MODEL: 48 O/A GUARD BOOTH

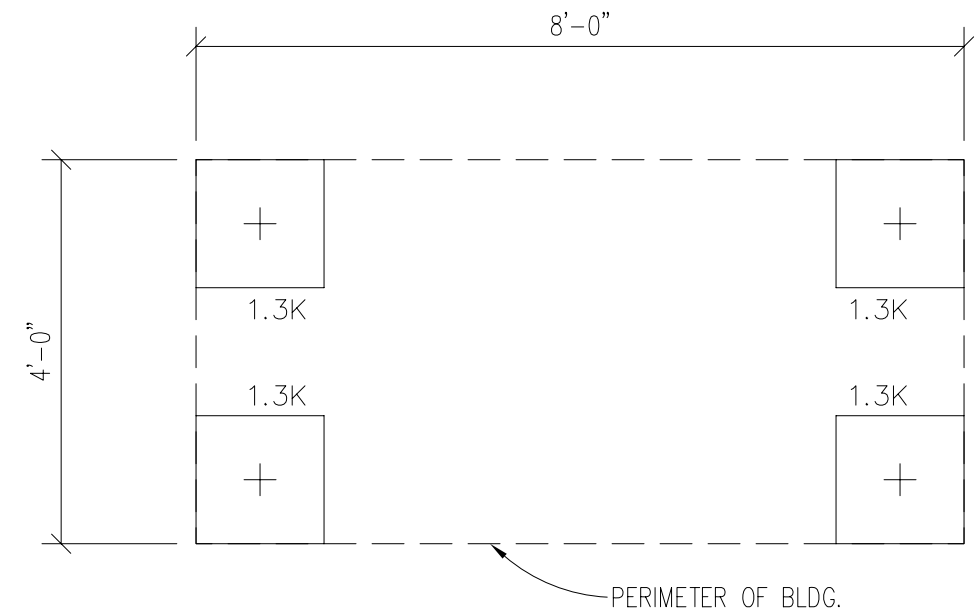
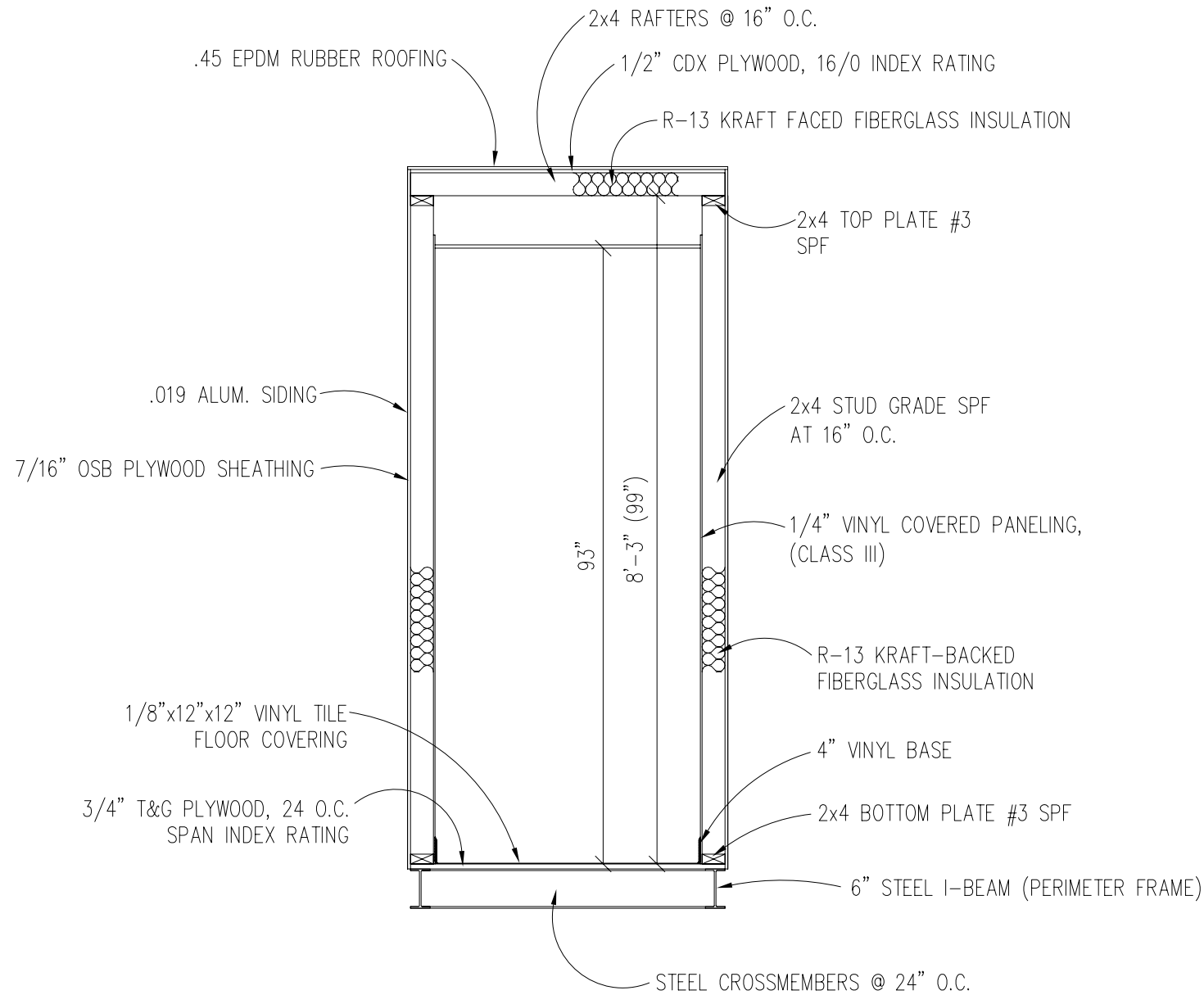
DRAWN BY: R.M.  
REV: 10/3/06

TWIN MODULAR SERVICES, INC.

10 INDUSTRIAL HWY., MS #26, BLDG. H3A, LESTER, PA 19113

DATE: 9/18/06  
SCALE: 1/4"=1'-0"

JOB NO: 2006-271  
DRAWING NO: 3



FOUNDATION & TIE-DOWN DESIGN BY OTHERS

**BUILDING CODE**

1. ATTIC VENTILATION SHALL NOT BE LESS THAN 1/150th OF THE HORIZONTAL AREA TO BE VENTILATED.
2. THE BUILDING EXTERIOR AND ALL FACILITIES WITHIN THE BUILDING SHALL BE IDENTIFIED WITH THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
3. BUILDER/DEALER SHALL BE RESPONSIBLE FOR ON SITE BARRIER FREE PROVISIONS: STEPS, RAMPS, PARKING SIGNS, ETC. - BUILDING APPROACH (WALK OR RAMP) WITH A MINIMUM WIDTH OF 5' AND A GRADIENT OF NOT MORE THAN 1 FOOT IN 20 FEET.
4. ALL LOCKS TO BE UNLOCKABLE FROM THE INTERIOR WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE.
5. CORROSION RESISTANT FLASHING AT TOP AND SIDES OF DOORS, WINDOWS AND AT ROOF PENETRATIONS.
6. ALL GLAZING WITHIN 24" OF EXTERIOR PASSAGE DOORS AND IN PASSAGE DOORS, OR WITHIN 18" OF FLOOR TO BE "SAFETY GLAZED" AND SO MARKED.

**FOUNDATION**

1. THE PIER LOCATIONS SHOWN ON THIS PLAN ARE FOR THE PURPOSE OF IDENTIFYING THE LOCATION OF THE REQUIRED BLOCKING POINTS AND THE LOADS APPLIED AT EACH POINT FOR THIS BUILDING. FOUNDATION REQUIREMENTS ARE NOT KNOWN DUE TO VARYING SOIL CONDITIONS.
2. FOUNDATION DESIGN IS BY OTHERS. FOUNDATION REVIEW AND APPROVAL IS TO BE PERFORMED BY THE LOCAL OFFICIAL HAVING JURISDICTION.
3. CRAWL SPACE TO BE VENTILATED AT 1 SQ. FT. PER EACH 150 SQ. FT. OF CRAWL SPACE AREA TO BE VENTILATED.
4. PROVIDE POSITIVE DRAINAGE UNDER UNIT.
5. PROVIDE MINIMUM CRAWL SPACE ACCESS OF 22" x 24".
6. MINIMUM FOOTING DEPTH OF BELOW FROSTLINE AND PER LOCAL CONDITIONS.
7. PIER LOADS ARE SHOWN IN KIPS
8. 90 MPH WIND SPEED, EXPOSURE C
9. UNIT MAY BE SHIMMED AS NECESSARY WITH HARDWOOD SHIMS BETWEEN TOP OF PIER AND MODULAR UNIT FRAME
10. MINIMUM CONCRETE STRENGTH SHALL BE 3,000 PSI AT 28 DAYS

**DESIGN LOADS**

FLOOR LIVE LOAD	= 50 PSF
FLOOR DEAD LOAD	= 10 PSF
ROOF LIVE LOAD	= 30 PSF
ROOF DEAD LOAD	= 10 PSF
EXTERIOR WALL DEAD LOAD	= 42 PLF

**FOUNDATION LEGEND**

- INDICATES BLOCKING TO BOTTOM OF MAIN I-BEAM
- INDICATES BLOCKING TO BOTTOM OF COLUMN
- INDICATES MINUTE-MAN OR EQUAL FRAME TIE-DOWN LOCATION AND DIRECTION

TITLE: BLOCKING POINTS PLAN CROSS SECTION	DRAWN BY: R.M.	DATE: 9/18/06	JOB NO: 2006-271
MODEL: 48 O/A GUARD BOOTH	REV: 10/3/06	SCALE: 1/4"=1'-0"	DRAWING NO: 4

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