

6'-0" x 8'-0" (ACTUAL SIZE) 68 O/A GUARD BOOTH PLAN A AND B

Twin Modular Services Inc.

1001 Lower Landing Road Suit 607, Blackwood , NJ

DESIGN BASIS	
State/Jurisdiction	Illinois
Building Code	2006 International Building Code
Plumbing Code	2006 Illinois Plumbing Code
Electrical Code	2008 National Electrical Code
Mechanical Code	2006 International Mechanical Code

LIFE SAFETY SUMMARY			
Construction type	VB		
Sprinkler Increase, I_S	1.00		
Frontage Increase, I_F	1.00		
Allowable Area Per Story, A_A	900 ft ²		
Allowable Height Above Grade	2 stories		
	40 ft		
LEVEL	OCCUPANCY	AREA	OCCUPANT LOAD
1	B	48 ft ²	1

STRUCTURAL DESIGN CRITERIA			
GRAVITY LOADS		Floor Live	50 psf
		Floor Dead	10 psf
		Roof Live	40 psf
		Roof Dead	10 psf
		Exterior Wall Dead	5 psf
SNOW	Ground Snow Load	25 psf	
	Flat-Roof Snow, P_f	20 psf	
WIND	Wind Speed (3 Second Gust)	90 mph	
	Exposure Category	C	
	Internal Pressure, G_C	+/-0.2	
	Base Wind Pressure, P_f	26.6 psf	
	Mean Roof Height	15 ft	
WIND	Setback	Greater than 10 feet to a common or assumed property line.	
Building shall not be placed on the upper half of a hill or escarpment exceeding 15 feet in height.			
SEISMIC (IBC)		Seismic Design Category	B
		Site Class	D
		Importance Category	1.0
		Occupancy Category	II
		Mapped Accelerations	
		S_s	0.19
		S_1	0.06
		Spectral Response	
		S_{DS}	0.19
		S_{D1}	0.09
		Seismic Force Resisting System	A13
		Design Base Shear	0.03W
		Response Modification Factor	6.5
		Analysis Procedure	ASCE 7-05 Sec. 12.8
FLOOD		Building shall not be located, in whole or in part, in a flood hazard area as established by the authority having jurisdiction unless set on a foundation designed in accordance with ASCE/SEI 25. The flood resistant foundation shall be designed by a registered design professional and constructed to resist all flood loads without transferring loads to the modular structure.	

DRAWING INDEX	
1.	Cover Sheet
1.1	General Notes
1.2	Specifications
2.	Elevations
3.	Floor Plan
3.1	Strapping Details
3.2	Strapping Details
4.	Electrical Plan
5.	Cross Section
6.	Blocking Plan

THIS PLAN MAY BE REVERSED OR MIRRORED.

ACCESSIBILITY EXCEPTIONS

1103.2.7 Raised areas. Raised areas used primarily for purposes of security, life safety, or fire safety including but not limited to, observation galleries, prison guard towers, fire towers or life guard stands are not required to be accessible or to be served by an accessible route.

1103.2.10 Single occupant structures. Single occupant structures accessed only by passageways below grade or elevated above ground including but not limited to, toll booths that are accessed by underground tunnels are not required to be accessible.

Note: Single occupant guard structures will be placed on and elevated entrance island to the park that does not have an accessible route.

SPECIAL LIMITATIONS

Adequate handicapped restroom facilities to handle this 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.

THERMAL ZONE

This buildings design complies with or exceeds the minimum requirements for thermal zone 4.

ATTENTION LOCAL BUILDING OFFICIAL

All work to be completed on-site is to be in compliance with all state and local codes and is subject to review, approval, and inspection by the local authority having jurisdiction. This building is designed for installation on a permanent foundation and is not intended to be moved once installed. All on-site work shall be performed by a licensed contractor with experience in the setup of modular buildings. The following list is not all inclusive, nor does it limit the items of work or materials that may be required for complete installation.

1. Complete foundation support and anchorage system.
2. Ramps, stairs and general access to building.
3. Electrical service connection (including feeders) to the building.

COMPONENTS AND CLADDING WIND LOADS		
Component	End Zone (psf)	Interior Zone (psf)
Windows & Siding	+17.7/-23.7	+17.7/-19.2
Doors	+15/-18.4	+8/-9
Roof Cladding	+10/-44.6	+10/-17.7
Roof Overhangs	-41.9	-25.5

NOTICE

These drawings are applicable only to the elements and loading criteria specifically provided herein. These drawings shall not be construed in any way to specify, certify or design any aspects of the building not contained herein. Elements not contained herein are to be constructed in accordance with the prescriptive requirements of the adopted building code or designed by other registered design professionals, as applicable. Specified design criteria are based solely on information provided by the client and must be verified and approved by the local authority having jurisdiction. NTA, Inc. is not responsible for fabrication or erection. If it is suspected that these drawings have been modified, substituted or altered in any way, contact NTA, Inc. directly to obtain a file copy.

NTA, Inc., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA No. 184005670

0104 2008-05-28

REVISIONS:	SCALE: NTS	APPROVED BY:	Twin Modular Services Inc. Blackwood , NJ	TITLE: COVER SHEET	JOB NO: TMS120511-22
	DATE: 12/08/11	DRAWN BY: R. Knowles		MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 1

WOOD FRAMING

- Structural sawn lumber shall be identified by a grade mark in accordance with DOC PS 20.
- Approved end-jointed lumber may be use interchangeably with solid-sawn member of the same species and grade except in fire rated assemblies.
- Structural sheathing shall be rated and labeled for compliance with DOC PS 1 or DOC PS 2.
- LVL members shall have the following minimum properties, E=2.0, F_v=2800 psi, unless noted otherwise.
- All wood shall have a moisture content of 19% or less at the time of construction.
- Wood framing members, including wood sheathing, that rest on exterior foundation walls and are less than 8" from exposed earth each shall be naturally durable or preservative treated.
- Wood members shall be cut and joined so no gap larger than 1/8" exists between members.
- Wood in contact with concrete or masonry shall be naturally durable or preservative treated in accordance with AWWA use category UC4C and properly identified as preservative treated.
- Nails and staples shall conform to ASTM F1667. Nails with shank diameters of 0.099" but not larger than 0.142" shall have a minimum average bending yield strength, F_y = 100 ksi.
- Fasteners shall be installed to avoid splitting of the wood members. If splitting occurs, the connection shall be made by alternate means or otherwise reinforced under the direction of the design engineer.
- Fasteners shall be driven so their head or crown is flush with the surface of the wood member or sheathing. Overdriven fasteners shall be replaced.
- Bolts shall conform to ASTM A307 meeting the requirements of ANSI/ASME B18.2.1 for full-body diameter bolts. Screws and lag screws shall conform to ANSI B18.2.1 and ANSI B18.6.1, respectively.
- Bolt holes shall be at least a minimum of 1/32" and no more than a maximum of 1/16" larger than the bolt diameter.
- Bolt nuts shall be finger-tight plus 1/3 to 1/2 turn with a hand wrench.
- Connection hardware shall be the brand and model specified. Alternate connectors shall be submitted to the design engineer for approval.
- Unless otherwise noted, connectors shall be installed with the maximum number and size of fasteners as required in the manufacturer's installation instructions.
- Prefabricated wood I-joist and structural composite lumber shall not be notched or drilled except where permitted by the manufacturer's recommendations.
- Plywood beams shall be detailed and fabricated in accordance with the latest edition of APA Plywood Design Specification Supplement 5 - Design & Fabrication of All-Plywood Beams.
- Douglas Fir, Hem Fir, or Southern Yellow Pine may be substituted for Spruce-Pine-Fir using an equal size and grade.

CORROSION PROTECTION

- Metal framing, connectors, fasteners, and flashing in contact with preservative treated or fire retardant treated wood members shall be hot-dipped zinc coated galvanized steel, stainless steel, silicon bronze, copper, or otherwise protected from the corrosive action of the wood member.
- A barrier between the treated members can be used when approved by the design engineer.
- Selection of the appropriate connector and fastener coating shall be based on the intended end use of the connector or fastener and the chemical preservative used in the treatment of the member for which it is in contact.
- Where connection hardware is used, such as joint hangers, fasteners used shall be made of the same material as the connection hardware.
- Corrosion protection of metal connectors, fasteners, and flashing based on galvanized or stainless steel materials shall be in accordance with the table below.

Product Coatings	Hot Dipped Galvanized (ASTM A153)		Stainless Steel
	G90	G185	
Untreated Wood SBX/DOT CCA-C	Yes	Yes	Yes
ACQ-C & ACQ-B CBA-A & CA-B NON-DOT No Ammonia and Not Rated For Ground Contact	No	Yes	Yes
Unknown Preservative, Contains Ammonia, Rated For Ground Contact or ACZA	No	No	Yes

SBX = DOT Sodium Borate, CCA-C = Chromated Copper Arsenate, ACQ-C & ACQ-D = Alkaline Copper Quat, CBA-A & CA-B = Copper Azote, Non-DOT = Other Borate, ACZA = Ammoniacal Copper Zinc Arsenate

COASTAL CORROSION PROTECTION

- The corrosion protection requirements in this sections shall apply to all structures located within 3000' landward of the mean high-tide waterline for all metal components or connectors not contained within the pressure envelope of the structure.
- Fasteners or bolts less than 5/8" in diameter shall be Type 316L stainless steel. Fasteners or bolts 5/8" or larger shall be hot dip galvanized per ASTM A653 or ASTM A153 with a zinc coating thickness of 1.85 oz of zinc per square foot of surface area (G185).
- Connection hardware, such as pre-formed connectors, steel plates, or steel straps, exposed to weather and having a base metal thickness equal to or less than 1/8" shall be Type 303, 304, 305 or 316 stainless steel. Steel exposed to weather having a base metal thickness greater than 1/8" shall be hot dip galvanized per ASTM A653 or ASTM A153 with a zinc coating thickness of 1.85 oz of zinc per square foot of surface area (G185) or painted using one of the following formulations:
 - Epoxy-polyamide
 - Coal-tar epoxy-polyamide
 - Zinc chromate-vinyl butyral primer with asphaltic mastic
- Contact between dissimilar materials (stainless steel and carbon steel) shall be avoided.

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	DATE: 12/08/11	DRAWN BY: R. Knowles

TITLE: COVER SHEET	JOB NO: TMS120511-22
MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 1.1

CHASSIS

Type: Perimeter Main Beam: 6" C Channel 8.2 lbs per foot
Cross Members: 6" C Channel at 24" o.c.
Paint: Asphalt Based

FLOOR

Moisture Barrier: Tyvek or Equal
Insulation: 2 Layers of 2" Ridged Insulation
Decking: 3/4" Plywood, 24" o.c. Secured Directly to Steel Frame
Covering: 1/8" x 12" x 12" Vinyl Tile
Trim: 4" Vinyl Cove Base
Optional: 3/16" Steel Plate Floor with Non-Skid Paint
Optional: 1/8" Aluminum Tread Plate Over 3/4" Plywood

EXTERIOR WALLS

Studs: 2x4 Stud Grade SPF at 16" o.c.
Bottom Plate: Single 2x4 #3 SPF
Top Plate: Single 2x4 #3 SPF
Wall Height: 8'-3"
Finished Ceiling Height: 7'-9" AFF
Insulation: R-13 Kraft-Backed Batts
Interior Wall Covering: 1/8" Vinyl Covered Panel (Class III)
Option: 1/2" Vinyl Covered Gyp. Wall Covering (Class I)

ROOF

Type: Rafter, 2x8 #3 SPF at 16" o.c.
Ceiling: 2'x4' T-Grid Drop Ceiling at 7'-9" AFF
Insulation: R-30 Unfaced Fiberglass Batts
Optional: 6" Roof Overhang

ELECTRICAL

Main Distribution Panel: Exterior Surface Mount Panel, 100 Amp. Single Phase, 3 wire, 60 HZ with Ground
Raceway: Minimum #14/2 with Ground 90 Deg. C Type MC Copper
Interior Lights: 2'x4' Two Tube Lay-In Florescent Troffer Per Print
Exterior Lights: 150 Watt Quartz Halogen Security Light (Weatherproof)
Switches: 120V 15 Amp Duplex Receipts Per Print
Optional: Additional Receipts
Optional: Extra Exterior Lighting
Optional: Interior Flush Mount 100 AMP 12/240 V Single Phase, 3 Wire, 60 HZ with Ground
Optional: Data Box with EMT and Fishline To Above Ceiling or Exterior- Wiring By Others On Site

HVAC

Heating: 220V, 20 Amp, 6' Elec. Baseboard Heater, Dedicated Circuit
Air Conditioning: 110V (Dedicated Circuit) 8000 BTU Wall Mount Above Window
Optional: Wall Mount 11,600 BTU Air Conditioner with Electric Heat Strip
Optional: 4000 Watt Electric Wall Heater with Fan, 20 AMP 240 Volt

EXTERIOR WINDOWS AND DOORS

Doors: 36x80 Alum. Door, Alum. Frame, Foam Insulated with 14" x14" window (Safety Glazed)
Ball Knob, Left or Right Hand Reverse Outswing.
Optional: 36x80 Steel Door with 22" x22" window (Safety Glazed) Ball Hardware Optional: 36x80 Steel Sliding Door with Heavy Duty Rollers 22"x30" Vision and Lock
Windows: 36"x39" Horizontal Slider, Vinyl Clad Thermal Pane Tempered
36"x39" Fixed Glazing, Vinyl Clad Thermal Pane
Optional: Film Tint Windows

EXTERIOR FINISHES

Siding: 0.19 Aluminum Light Gray
Trim: 0.19 Aluminum Dark Gray
Wall Sheathing: 7/16" OSB, 16/0 APA Span Index Rating
Roof Sheathing: 1/2" CDX Plywood, 16/0 Span Rating
Roof: 0.45 EPDM Rubber Roofing
Window Trim: Vinyl Tuff Board Trim All Windows

FURNITURE

2'-0" x 5'-4" Countertop- White Mica
Optional: 1/8" Steel Counter Painted with File Cabinet

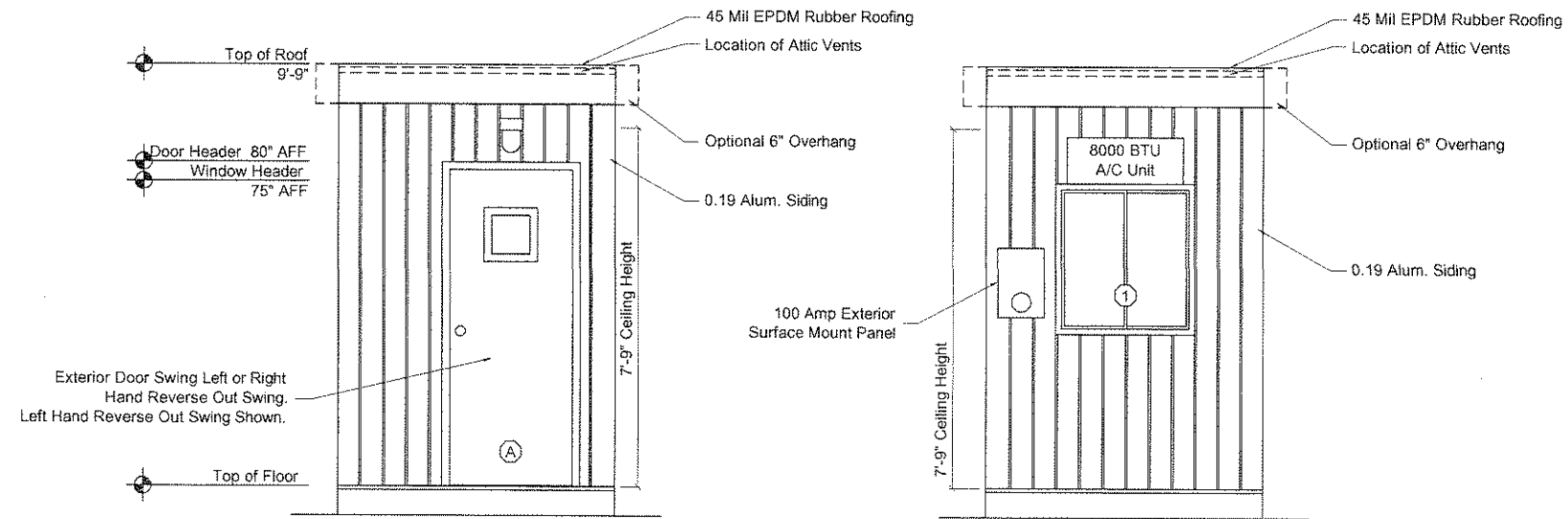
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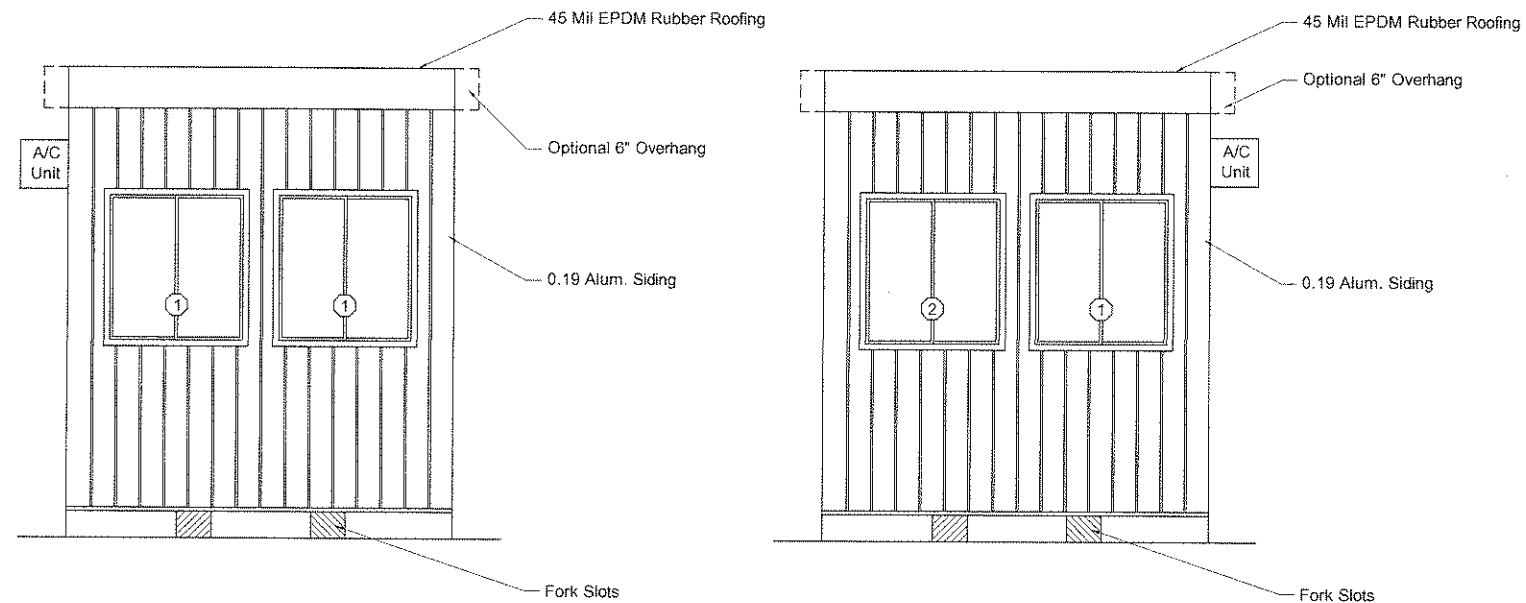
REVISIONS:	SCALE: NTS	APPROVED BY:
	DATE: 12/08/11	DRAWN BY: R. Knowles

TITLE: SPECIFICATIONS	JOB NO: TMS120511-22
MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 1.2



FRONT ELEVATION- PLAN A
SCALE: 1/4" = 1'-0"

REAR ELEVATION- PLAN A
SCALE: 1/4" = 1'-0"



LEFT ELEVATION- PLAN A
SCALE: 1/4" = 1'-0"

RIGHT ELEVATION- PLAN A
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE	
Mark	Description
Ⓐ	36" x 80" Alum. Frame, Foam Insulated Door with 14x14 SG Window
WINDOW SCHEDULE	
Mark	Description
①	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane
②	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane, Safety Glazing

ATTIC VENTILATION
Vents shall be installed to provide a total net free ventilating area not less than 1/150 of the area of the space being ventilated. Vents shall be positioned to provide cross ventilation.

48 Area /150= 0.32 sq. ft. Ventilation Required

SITE INSTALLED ITEMS
Steps, rails, and decks are to be designed by others and built on-site in accordance with local codes and subject to approval by the local authority having jurisdiction.

HEIGHT ABOVE FINISHED GRADE
Height above finished grade shall be established by a site-specific foundation design or by the local authority having jurisdiction. In no case shall the bottom of the floor joists be closer than 18" to exposed ground.

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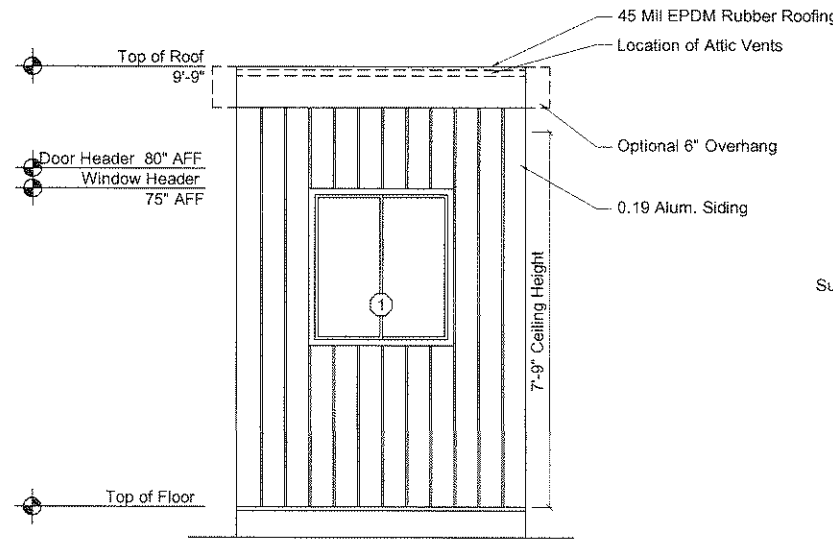
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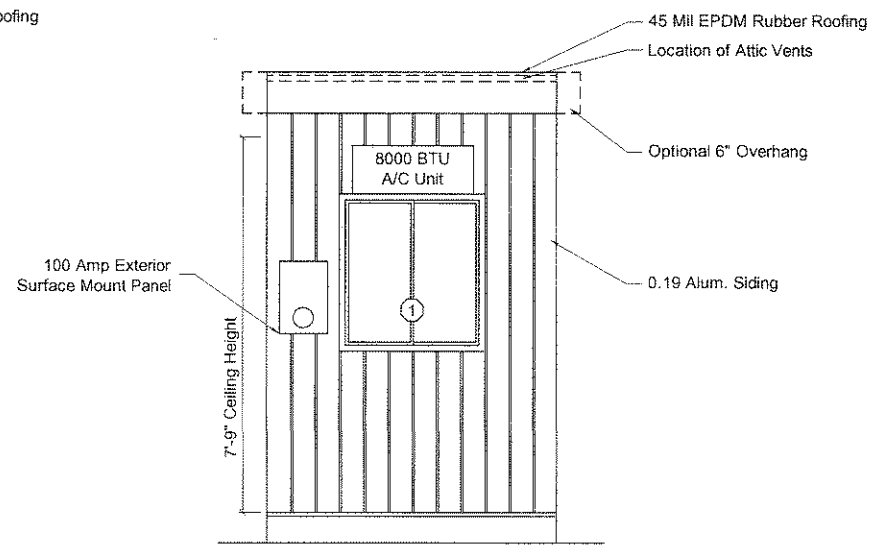
TITLE:	ELEVATIONS PLAN A
MODEL:	68 O/A GUARD BOOTH

JOB NO:	TMS120511-22
DRAWING NO:	2A

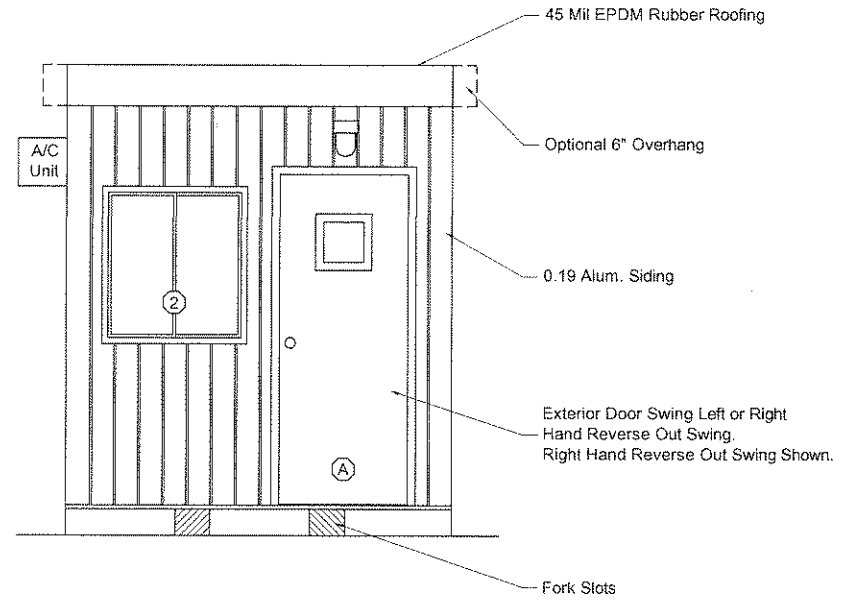
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	1/2" = 1'-0"	
	DATE:	DRAWN BY:
	12/08/11	R. Knowles



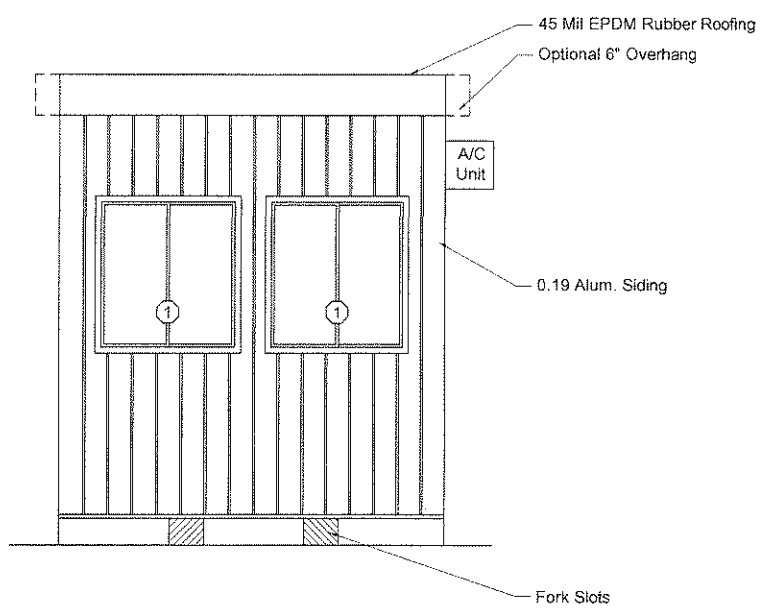
FRONT ELEVATION- PLAN B
SCALE: 1/4" = 1'-0"



REAR ELEVATION- PLAN B
SCALE: 1/4" = 1'-0"



LEFT ELEVATION- PLAN B
SCALE: 1/4" = 1'-0"



RIGHT ELEVATION- PLAN B
SCALE: 1/4" = 1'-0"

DOOR SCHEDULE	
Mark	Description
(A)	36" x 80" Alum. Frame, Foam Insulated Door with 14x14 SG Window
WINDOW SCHEDULE	
Mark	Description
(1)	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane
(2)	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane, Safety Glazing

ATTIC VENTILATION
Vents shall be installed to provide a total net free ventilating area not less than 1/150 of the area of the space being ventilated. Vents shall be positioned to provide cross ventilation.

48 Area /150= 0.32 sq. ft. Ventilation Required

SITE INSTALLED ITEMS
Steps, rails, and decks are to be designed by others and built on-site in accordance with local codes and subject to approval by the local authority having jurisdiction.

HEIGHT ABOVE FINISHED GRADE
Height above finished grade shall be established by a site-specific foundation design or by the local authority having jurisdiction. In no case shall the bottom of the floor joists be closer than 18" to exposed ground.

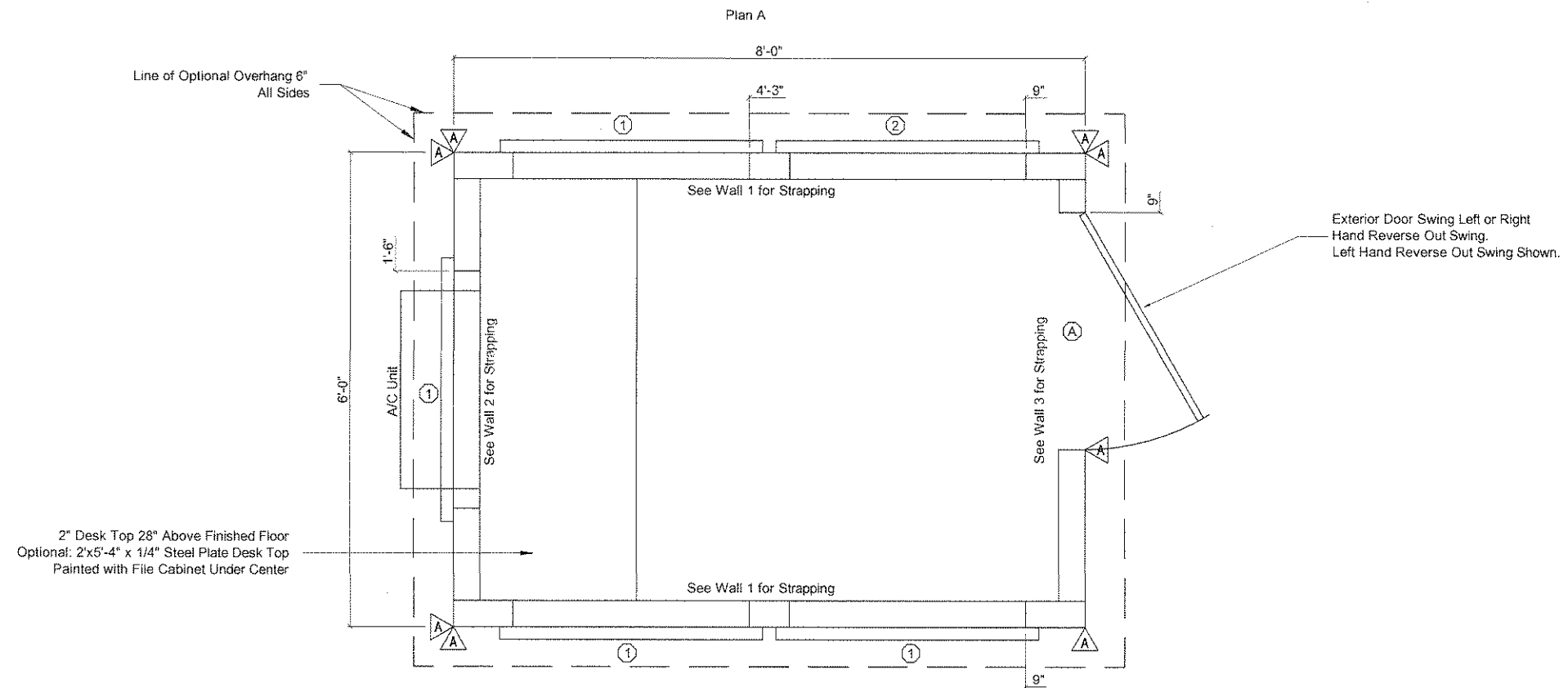
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Blackwood, NJ

TITLE: ELEVATIONS PLAN B	JOB NO: TMS120511-22
MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 2B



2" Desk Top 28" Above Finished Floor
 Optional: 2'x5'-4" x 1/4" Steel Plate Desk Top
 Painted with File Cabinet Under Center

Exterior Door Swing Left or Right
 Hand Reverse Out Swing.
 Left Hand Reverse Out Swing Shown.

BUYER ACCEPTANCE PLAN A SIGN AND DATE

SHEARWALL CONSTRUCTION

1. A holdown shall be provided at each "shearwall mark" location on the plan above. The wall between marks shall be constructed as specified in the table above.
2. In corners, where two holdowns are required (one in each orthogonal direction) the lower capacity holdown may be omitted when the walls are interconnected to transfer the lower chord force to the larger anchor.
3. Stagger all fasteners spaced 2" oc, or less, in multiple rows with the rows staggered not less than 1.5" apart.
4. Truss(es) shall be placed over each interior shearwall and the truss(es) shall be sheathed in the same manner as the wall below.
5. Alternate holdown of equal or greater capacity may be substituted for holdowns specified.
6. Holdowns to be installed in accordance with manufacturer's installation instructions.
7. Where holdowns are to be installed on-site, a clearly marked access panel shall be provided.

SHEARWALL SCHEDULE

Mark	Sheathing	Fastening	Framing
A	7/16" Structural Sheathing, One Side, Blocked	0.113" x 2.5" nails 6/12 (edge/field)	2x4 SPF @ 16" oc

DOOR SCHEDULE

Mark	Description	Hardware	Header	Jack Studs	Jamb Studs
A	36" x 80" Alum. Frame, Foam Insulated Door with 14x14 SG Window	Ball Knob	(1) 2x4 #2 SPF	0	1

WINDOW SCHEDULE

Mark	Description	Glazed Area	Vent Area	Header	Jack Studs	Jamb Studs
1	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane	9.75 ft ²	4.87 ft ²	(1) 2x4 #2 SPF	0	1
2	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane, Safety Glazing	9.75 ft ²	4.87 ft ²	(1) 2x4 #2 SPF	0	1

GENERAL

1. All glazing within 24" arc of doors, whose bottom edge is less than 60" above the floor, and all glazing in door shall be safety glazed, tempered or acrylic plastic sheet.
2. Minimum corridor width shall not be less than 36".
3. Exterior windows and sliding doors shall be labeled as conforming to AAMA/WDMA/CSA1011/.S.2/A440.
4. Windows in buildings located in windborne debris regions shall be protected in accordance with Section 301.2.1.2 of the residential code.

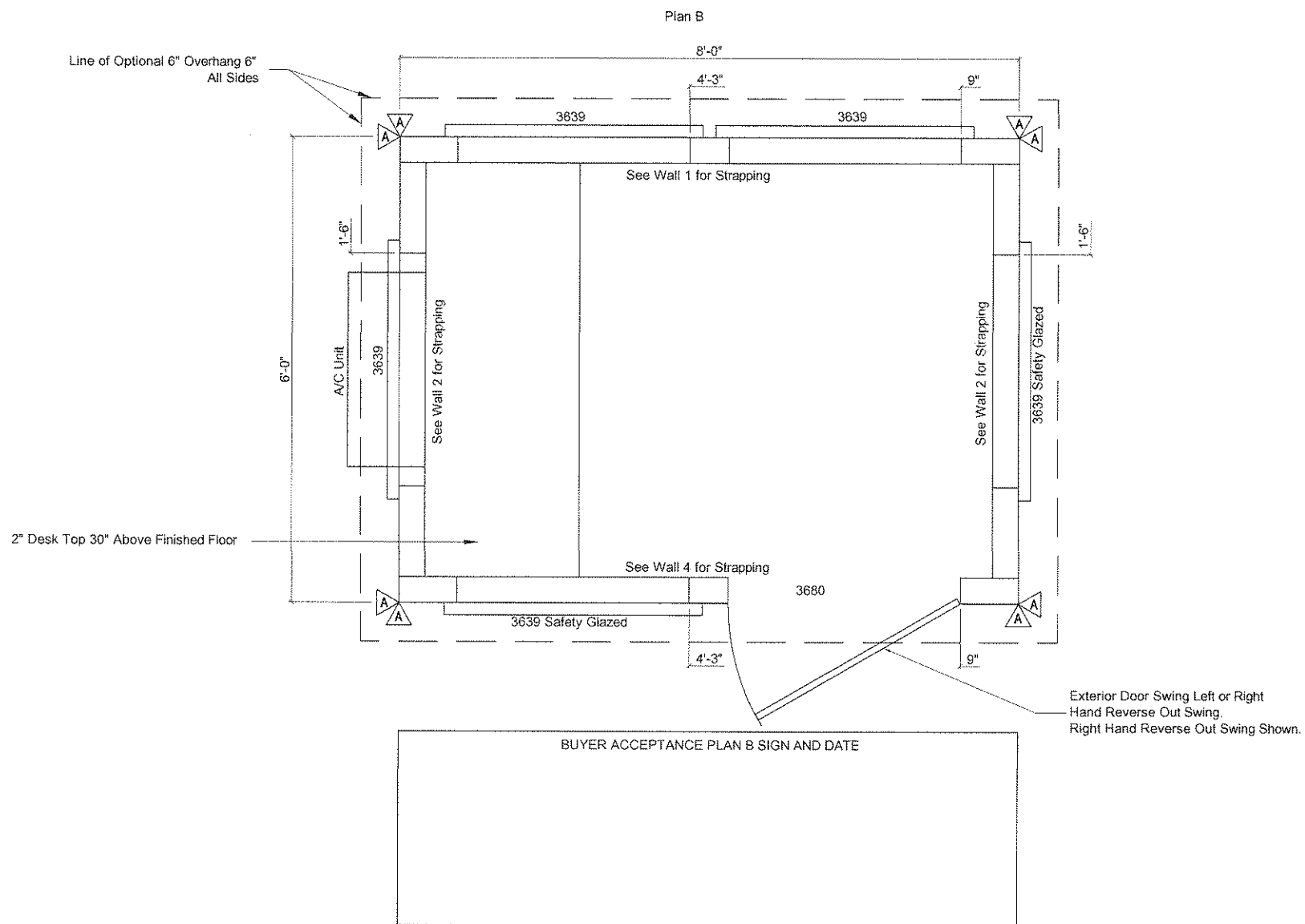
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Twin Modular Services Inc.
 Blackwood, NJ

TITLE:	FLOOR PLAN A	JOB NO:	TMS120511-22
MODEL:	68 O/A GUARD BOOTH	DRAWING NO:	3A

REVISIONS:	SCALE:	APPROVED BY:
	1/2" = 1'-0"	
	DATE:	DRAWN BY:
	12/08/11	R. Knowles



GENERAL

- All glazing within 24" arc of doors, whose bottom edge is less than 60" above the floor, and all glazing in door shall be safely glazed, tempered or acrylic plastic sheet.
- Minimum corridor width shall not be less than 36".
- Exterior windows and sliding doors shall be labeled as conforming to AAMA/WDMA/CSA 1011.1 S.2/A440.
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SHEARWALL SCHEDULE			
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DOOR SCHEDULE					
Mark	Description	Hardware	Header	Jack Studs	Jamb Studs
A	36" x 80" Alum. Frame, Foam Insulated Door with 14x14 SG Window	Ball Knob	(1) 2x4 #2 SPF	0	1

WINDOW SCHEDULE					
Mark	Description	Glazed Area	Vent Area	Header	Jamb Studs
1	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane	9.75 ft ²	4.87 ft ²	(1) 2x4 #2 SPF	0
2	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane, Safety Glazing	9.75 ft ²	4.87 ft ²	(1) 2x4 #2 SPF	0

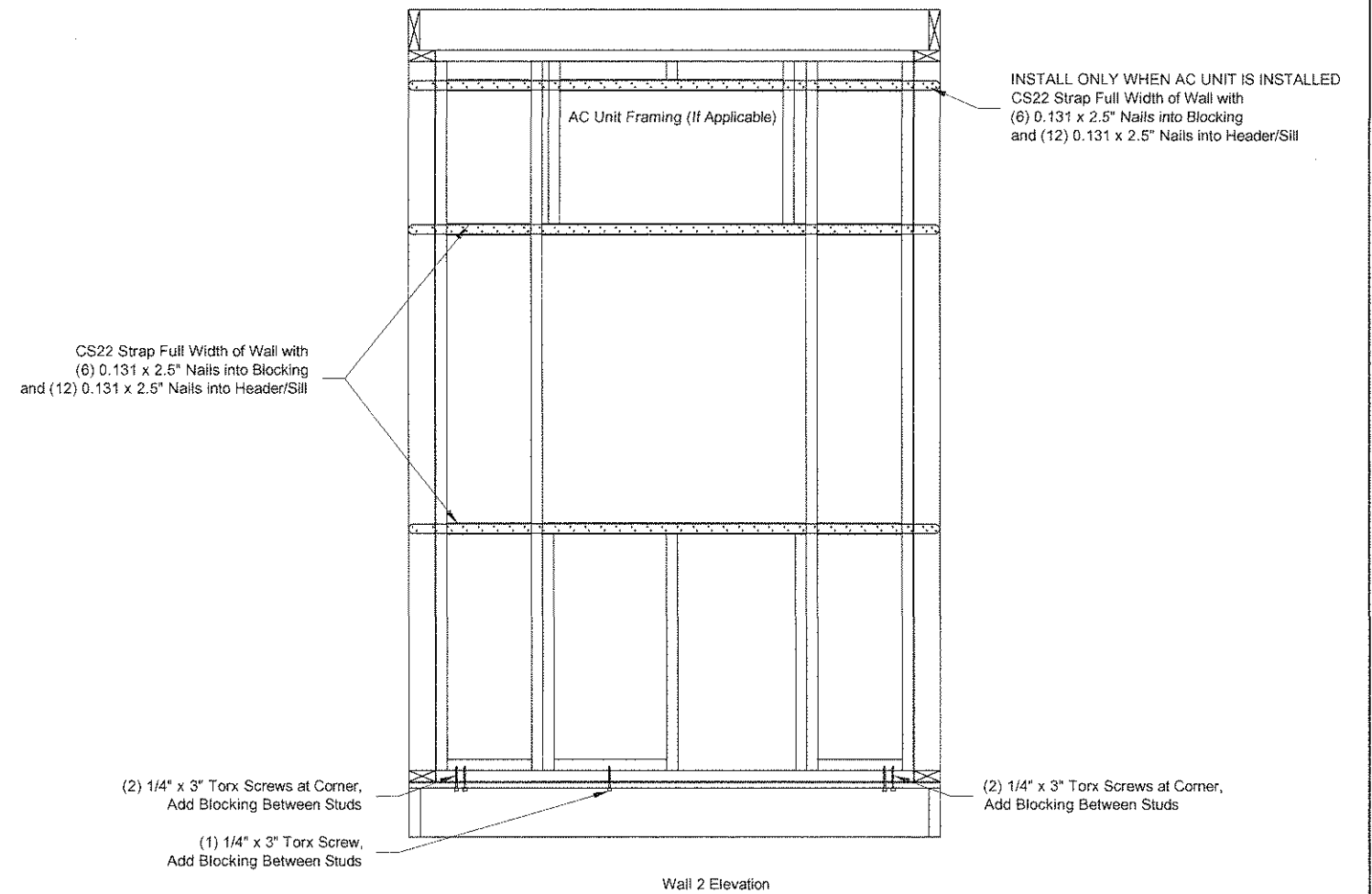
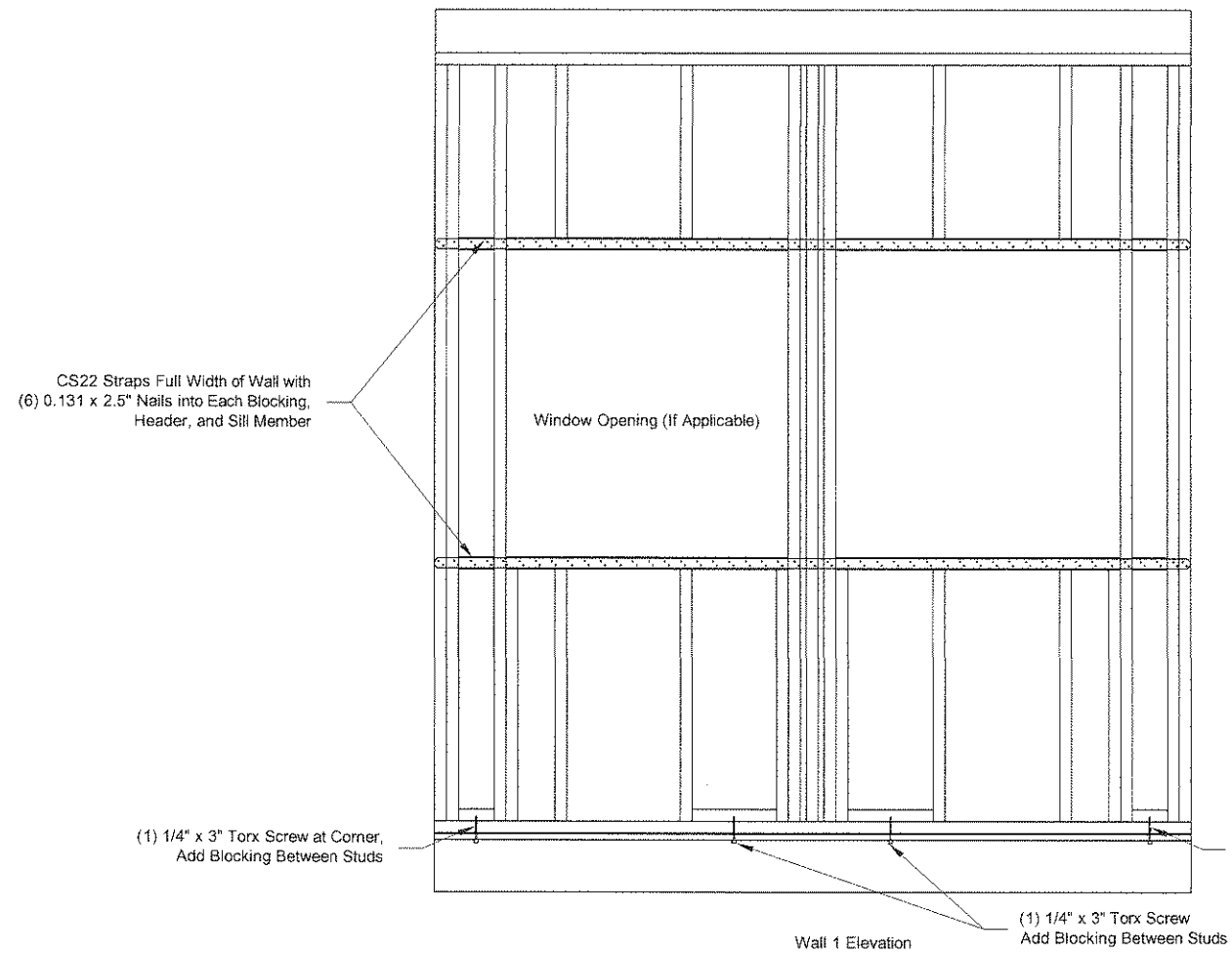
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Note:
 1. Block between studs at all strap locations with 2x4 Stud Grade SPF lumber.
 2. Fasten Sheathing to bottom plate and additional blocking at 2" o.c. entire perimeter.

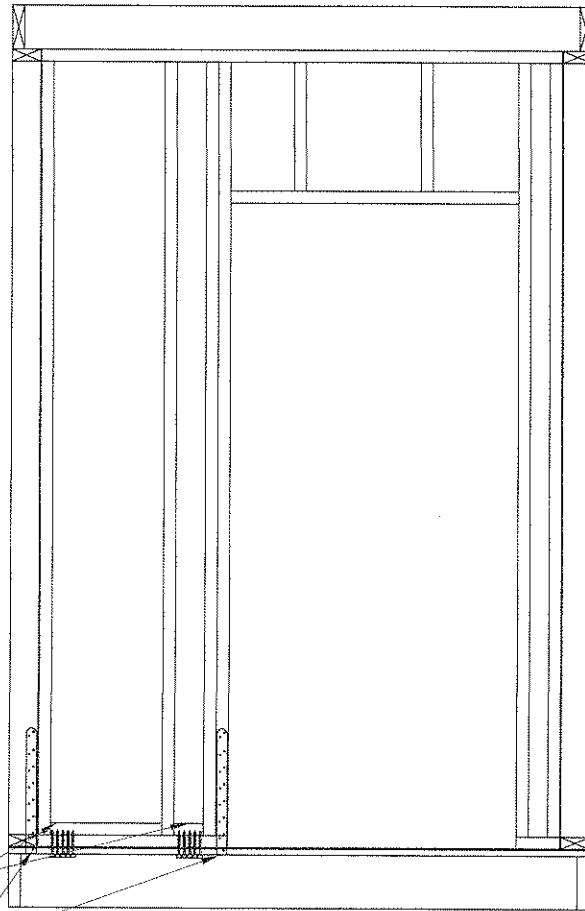
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	DATE: 12/08/11	DRAWN BY: R. Knowles

Twin Modular Services Inc.
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TITLE: STRAPPING DETAILS	JOB NO: TMS120511-22
MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 3.1

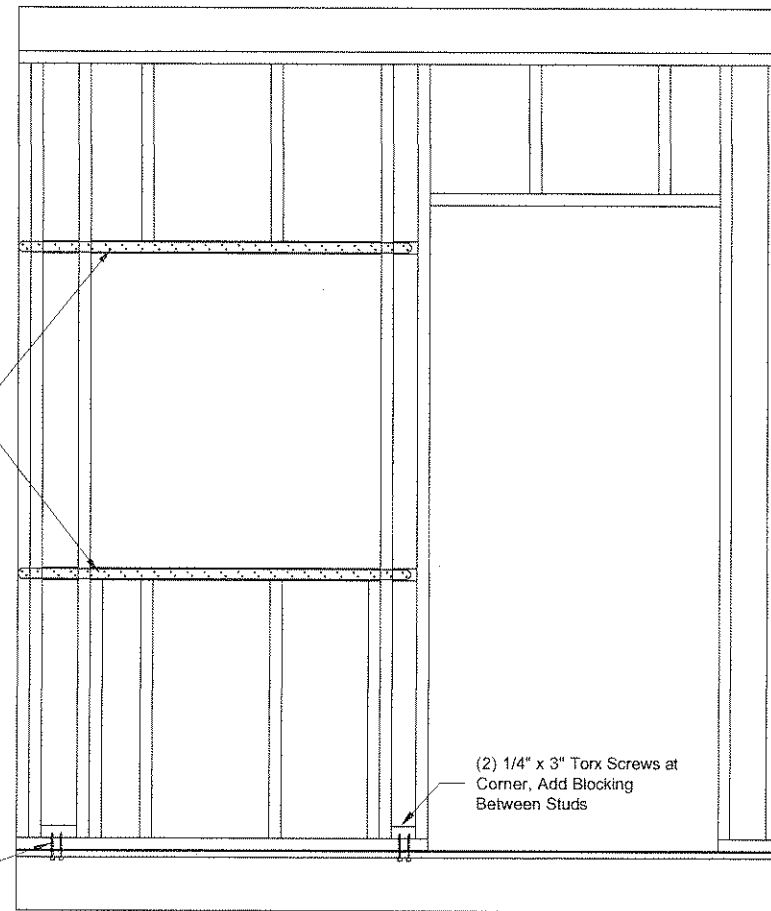
Plan A



Wall 3 Elevation

(5) 1/4" x 3" Torx Screws (Each Location),
Add Blocking Between Studs
(1) CS14 Strap (Each Location)
Wrapped Around Bottom Plate
and Fastened to each side of stud
with (18) 0.134 x 2.5" Nails

Plan B



Wall 4 Elevation

CS22 Strap with
(5) 0.131 x 2.5" Nails into Blocking and (10)
0.131 x 2.5" Nails into Header/Sill

(2) 1/4" x 3" Torx Screws at Corner,
Add Blocking Between Studs

(2) 1/4" x 3" Torx Screws at
Corner, Add Blocking
Between Studs

- Note:
1. Block between studs at all strap locations with 2x4 Stud Grade SPF lumber.
2. Fasten Sheathing to bottom plate and additional blocking at 2" o.c. entire perimeter.

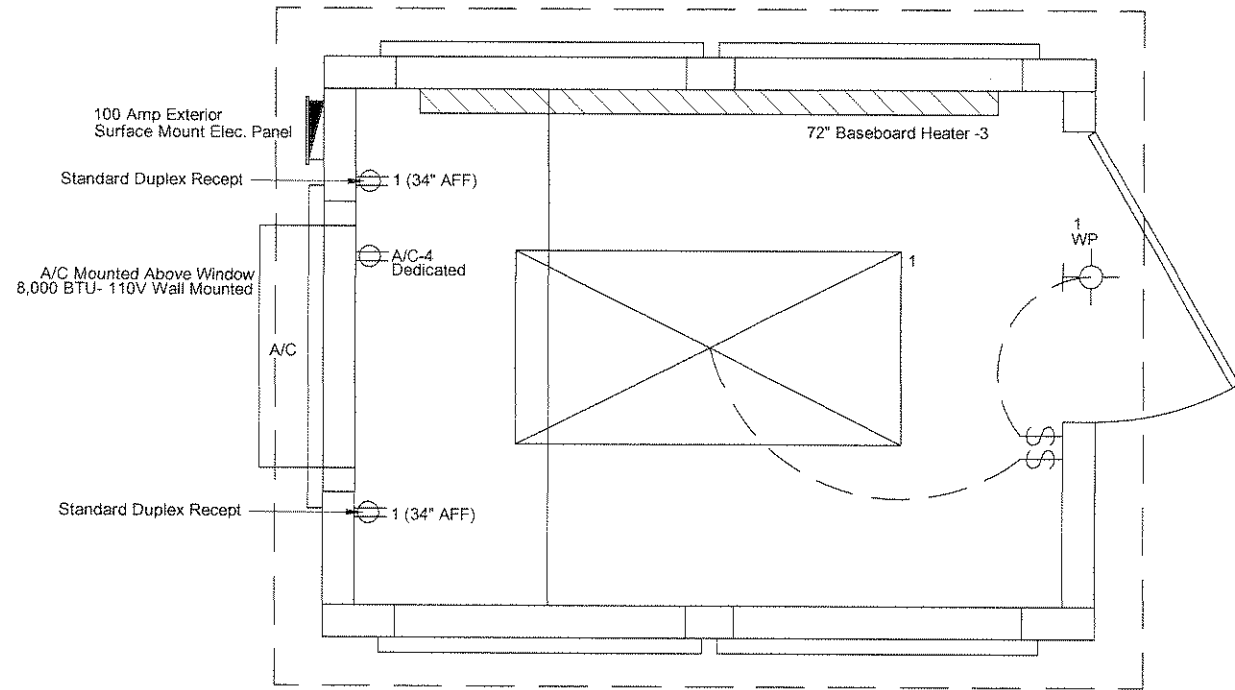
NTA, Inc., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA No. 184005670

0106 2008-09-23

REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:
	DATE: 12/08/11	DRAWN BY: R. Knowles

Twin Modular Services Inc.
Blackwood, NJ

TITLE: STRAPPING DETAILS	JOB NO: TMS120511-22
MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 3.2



BUYER ACCEPTANCE PLAN A SIGN AND DATE

NTA, Inc., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA No. 184005670

Electrical Specifications

Product	Manufacturer	Model and Specifications
Electric Baseboard Heater	Marley Fahrenheit	Model 52546NWL 240/208 V/AC 60HZ 1500/1150 Watts 6.3/5.6 Amps
Interior Drop in Light	Lithonia	Model 2GT8432A12120 2'x4' Lay in Trooper T-8/120V
Exterior Lighting	Lithonia	Model OFLM150Q120LPBZ 120V 150 Watt Quartz Halogen Security Light
A/C Unit	Frigidaire	Model FRA086AT7 8000 BTU 15 Amp 115V

Note: Products may be substituted for an equal or better model.

ELECTRICAL

1. All Receptacles to be the grounding type.
2. All Wiring to be per the edition of the NEC Listed on the Cover Page, Type MC CU with ground.
3. Main panel to be marked "Suitable For Use As Service Equipment" and be equipped with 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. Weather proof protection required for all outdoor lights, receptacles and disconnects.
7. Proper working clearances shall be provided and maintained for all electrical equipment.
8. All florescent fixture's required thermal protection and proper clearances from insulation, also applicable for incandescent fixture's.
9. Combination exhaust fan/light and all recessed incandescent fixture's 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 on the cover page.
12. Maximum 15 (2) tube florescent lights in 15A circuit, Maximum 10 receipts on 15A circuit, Maximum 7 (4) Tube florescent lights on a 120A circuit.
13. Maximum 20 (2) tube florescent lights in 20A circuit, Maximum 13 receipts on 20A circuit, Maximum 10 (4) Tube florescent lights on a 120A circuit.
14. All circuits and equipment shall be grounded in accordance with the appropriate articles of the National Electrical Code (NEC).
15. HVAC equipment shall be provided with readily accessible disconnects adjacent to the equipment served. A unit switch with a marked "off" position that is a part of the HVAC equipment and disconnects all ungrounded conductors shall be permitted as the disconnecting means where other disconnecting means are also provided by a readily accessible circuit breaker.
16. Prior to energizing the electrical system the interrupt rating of the main breaker must be designed by a local electrical consultant to verify compliance with NEC 110-9.
17. The electrical feeders are designed by others, site installed and subject to review and approval by the authority having jurisdiction.
18. Ceiling Luminary boxes shall be designed for the purpose and required to support a minimum of 50 lbs.

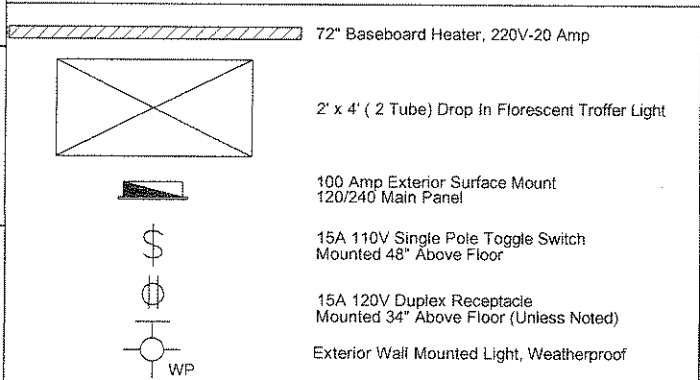
100 Amp. ELECTRICAL PANEL SCHEDULE
120/240-V, 3-Wire, Single Phase
10 Space, 20 Circuit Minimum

Circuit Number & Type	Wire Size & Quantity	Breaker		Description
		Trip	Pole	
1	14-2	15	1	Lights and Recepts
2	12-2	20	1	Not Used
3	12-2	20	2	Baseboard Heater
4	14-2	15	1	A/C

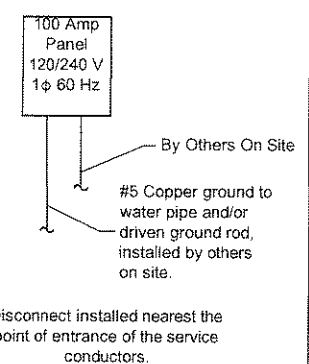
DISTRIBUTION PANEL SIZING
120/240-V, 3-Wire, Single Phase

Receptacles (4x180)	720 W
Lighting (48 sq. ft x 3w)	144 W
Baseboard Heater (6 lf x 500)	3000 W
A/C	1650 W
5514 W / 240 V = 46A Service Rating	

ELECTRICAL LEGEND



100 AMP ELECTRICAL RISER DIAGRAM

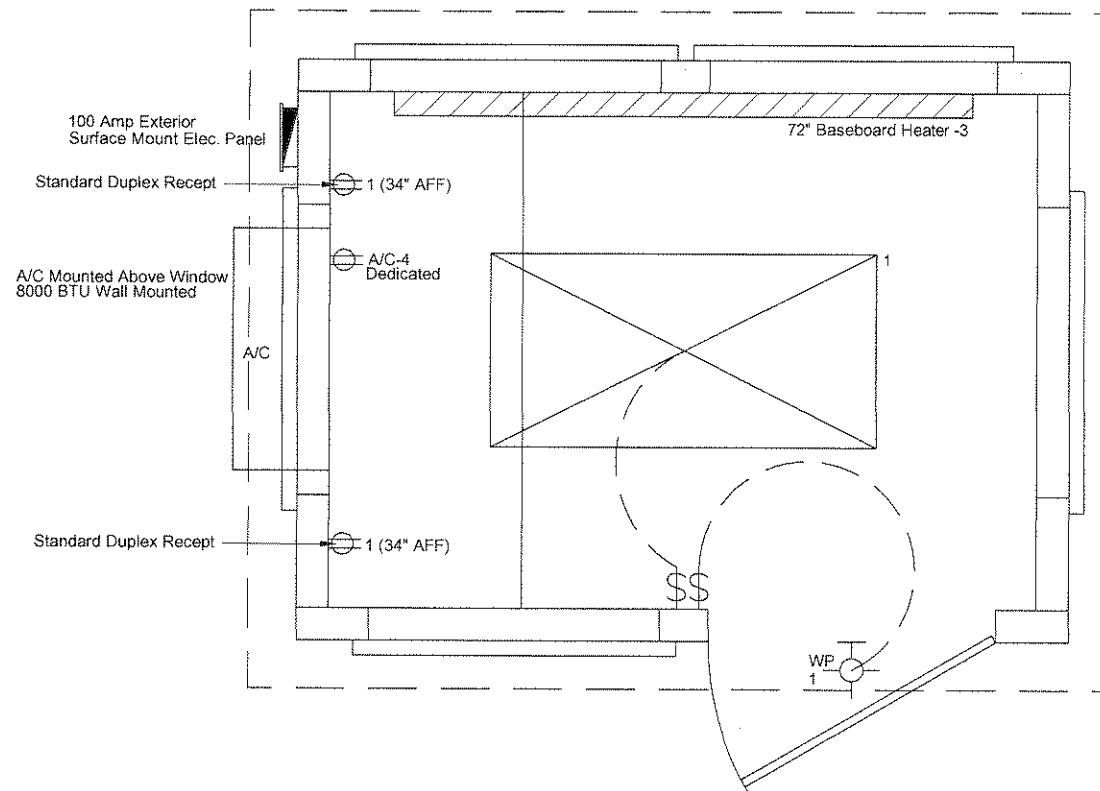


REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:
	DATE: 12/08/11	DRAWN BY: R. Knowles

Twin Modular Services Inc.
Blackwood, NJ

TITLE: ELECTRICAL PLAN A	JOB NO: TMS120511-22
MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 4A

0107 2008-09-23



BUYER ACCEPTANCE PLAN B SIGN AND DATE

NTA, Inc., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA No. 184005670

Electrical Specifications

Product	Manufacturer	Model and Specifications
Electric Baseboard Heater	Marley Fahrenheat	Model 52546NWL 240/208 V/AC 60HZ 1500/1150 Watts 6.3/5.6 Amps
Interior Drop in Light	Lithonia	Model 2GT8432A12120 2'x4' Lay In Trooper T-8/120V
Exterior Lighting	Lithonia	Model OFLM150Q120LPBZ 120V 150 Watt Quartz Halogen Security Light
A/C Unit	Frigidaire	Model FRA086AT7 8000 BTU 15 Amp 115V

Note: Products may be substituted for an equal or better model.

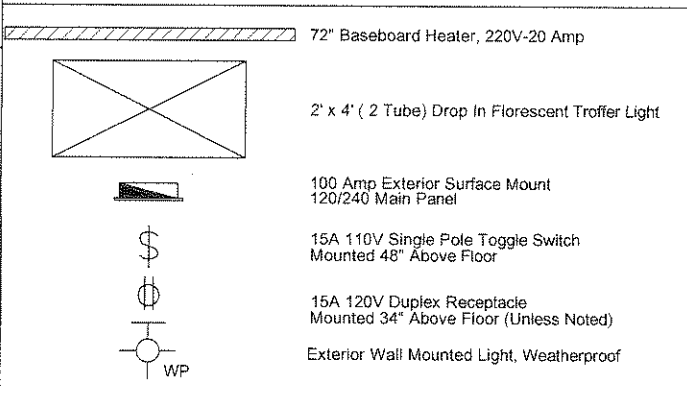
**100 Amp. ELECTRICAL PANEL SCHEDULE
120/240-V, 3-Wire, Single Phase
10 Space, 20 Circuit Minimum**

Circuit Number & Type	Wire Size & Quantity	Breaker		Description
		Trip	Pole	
1	14-2	15	1	Lights and Recepts
2	12-2	20	1	Not Used
3	12-2	20	2	Baseboard Heater
4	14-2	15	1	A/C

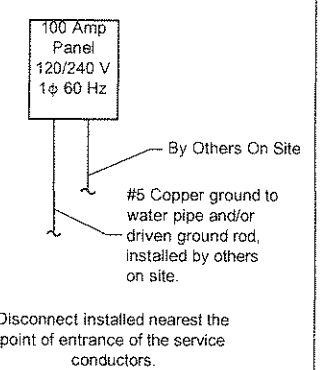
**DISTRIBUTION PANEL SIZING
120/240-V, 3-Wire, Single Phase**

Receptacles (4x180)	720 W
Lighting (48 sq. ft x 3w)	144 W
Baseboard Heater (6 lf x 500)	3000 W
A/C	1650 W
5514 W / 240 V = 46A Service Rating	

ELECTRICAL LEGEND



100 AMP ELECTRICAL RISER DIAGRAM



ELECTRICAL

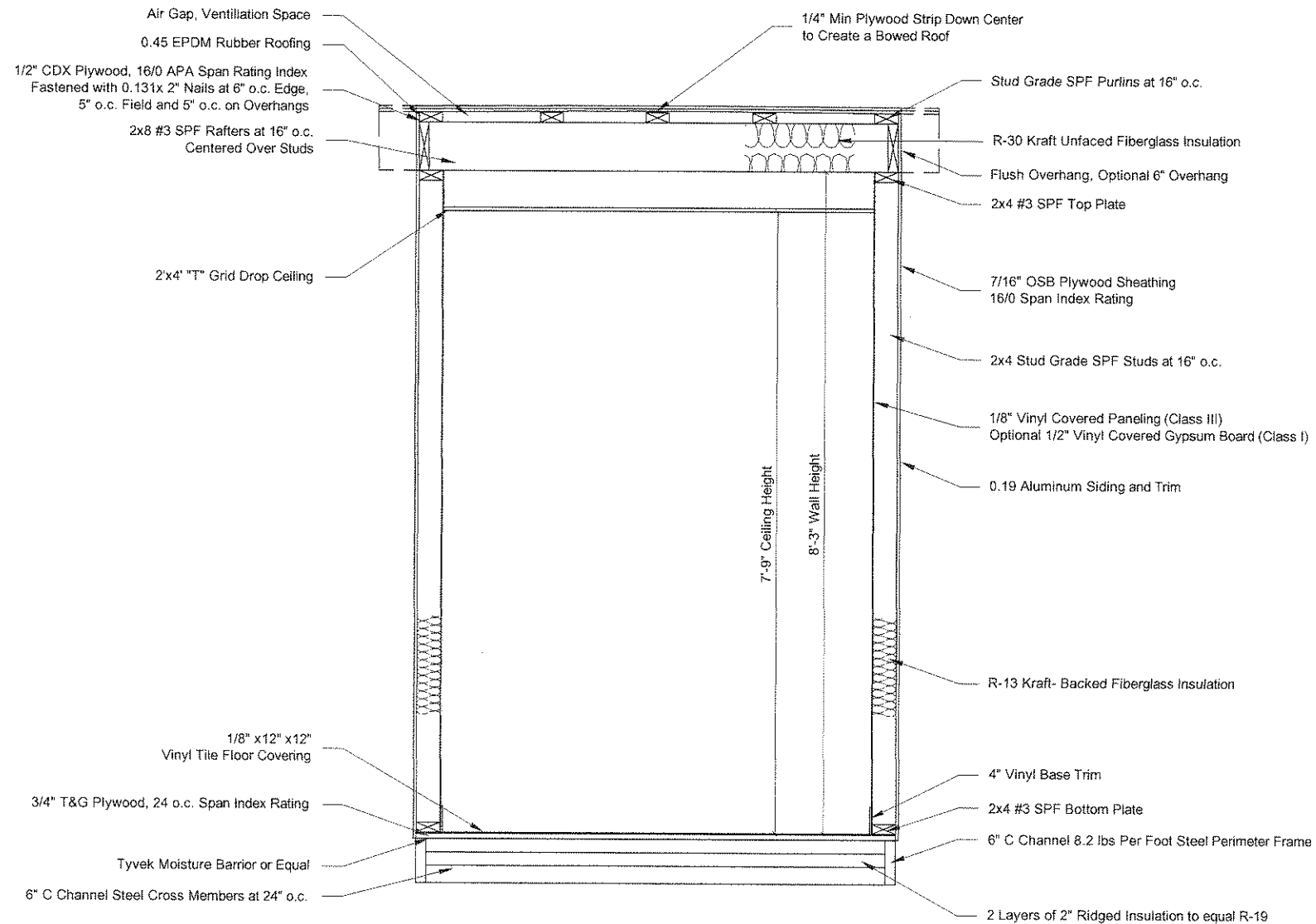
- All Receptacles to be the grounding type.
- All Wiring to be per the edition of the NEC Listed on the Cover Page, Type MC CU with ground.
- Main panel to be marked "Suitable For Use As Service Equipment" and be equipped with breaker/ fuse type overcurrent protection.
- Proper thermal overload protection to be provided for all motors.
- Disconnecting means within sight required for all motors.
- Weather proof protection required for all outdoor lights, receptacles and disconnects.
- Proper working clearances shall be provided and maintained for all electrical equipment.
- All florescent fixture's required thermal protection and proper clearances from insulation, also applicable for incandescent fixture's.
- Combination exhaust fan/light and all recessed incandescent fixture's to be with thermal protection.
- 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.
- Service conductors located within the perimeter of the building, shall be installed in accordance with article 230-6, per the edition of the NEC on the cover page.
- Maximum 15 (2) tube florescent lights in 15A circuit, Maximum 10 receipts on 15A circuit, Maximum 7 (4) Tube florescent lights on a 15A circuit.
- Maximum 20 (2) tube florescent lights in 20A circuit, Maximum 13 receipts on 20A circuit, Maximum 10 (4) Tube florescent lights on a 120A circuit.
- All circuits and equipment shall be grounded in accordance with the appropriate articles of the National Electrical Code (NEC).
- HVAC equipment shall be provided with readily accessible disconnects adjacent to the equipment served. A unit switch with a marked "off" position that is a part of the HVAC equipment and disconnects all ungrounded conductors shall be permitted as the disconnecting means where other disconnecting means are also provided by a readily accessible circuit breaker.
- Prior to energizing the electrical system the interrupt rating of the main breaker must be designed by a local electrical consultant to verify compliance with NEC 110-9.
- The electrical feeders are designed by others, site installed and subject to review and approval by the authority having jurisdiction.
- Ceiling Luminary boxes shall be designed for the purpose and required to support a minimum of 50 lbs.

REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:
	DATE: 12/08/11	DRAWN BY: R. Knowles

Twin Modular Services Inc.
Blackwood, NJ

TITLE: ELECTRICAL PLAN B	JOB NO: TMS120511-22
MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 4B

0107 2008-09-23



NTA, Inc., 305 N Oakland Ave
 Nappanee, Indiana 46550
 Engineering COA No. 184005670

BUYER ACCEPTANCE SIGN AND DATE

NOTES

- Fireblocking shall be installed at the floor and ceiling level. Fireblocking material shall be as permitted in NC Building Code. Exterior joints in the building envelope that are sources of air leakage, such as floor and ceiling lines, door and windows, or any other penetrations through the building envelope shall be caulked, gasketed, weather-stripped, wrapped or otherwise sealed to limit uncontrolled air movement. Stopping materials installed on-site are subject to local review, approval and inspection.
- In all framed walls, floors and roof/ceiling comprising elements of the building thermal envelope, a vapor retarder shall be installed on the warm-in-winter side of the insulation with the following exceptions:
 - Where the framed cavity or space is ventilated to allow moisture to escape.
- Where required, the vapor retarder shall be comprised of any material (kraft backing, polyethylene, spray applied) approved for such use and having a perm rating of 1 or less.

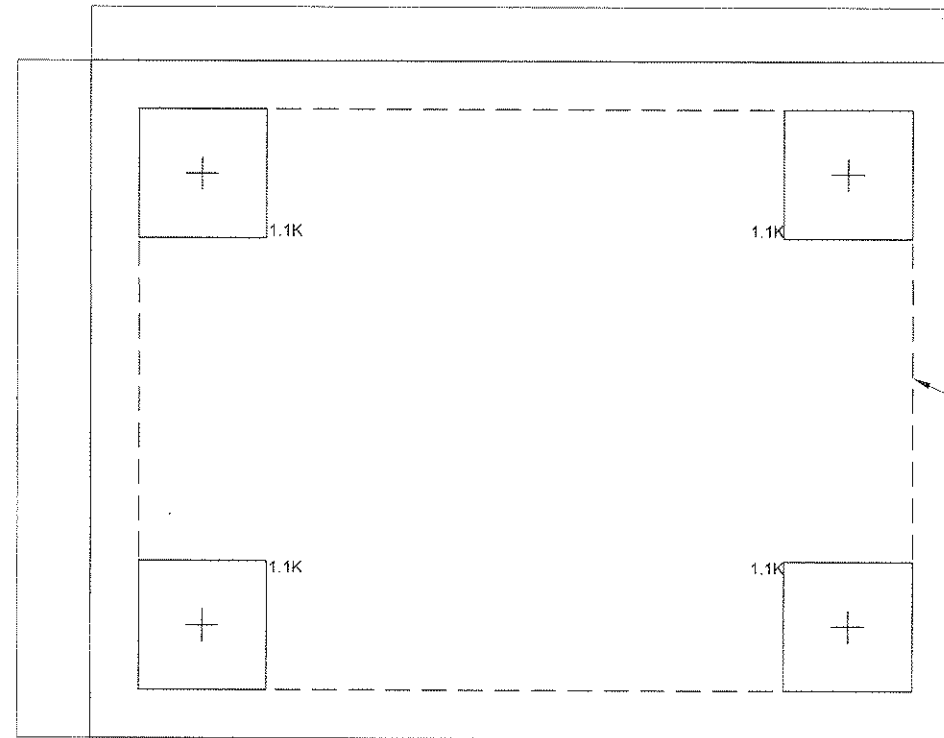
0110.1150 2008-12-02

REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:
	DATE: 12/08/11	DRAWN BY: R. Knowles

Twin Modular Services Inc.
 Blackwood, NJ

TITLE: CROSS SECTION	JOB NO: TMS120511-22
MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 5

Floor Plan Option A and B



9'X7 Concrete Pad Design, Installation and Anchoring By Others

9'X7 Concrete Pad Design, Installation and Anchoring By Others

Note: Secure to foundation at corners to resist 1600 lbs overturning force.
Fasten perimeter to foundation to resist 1400 lbs shear force at each wall.

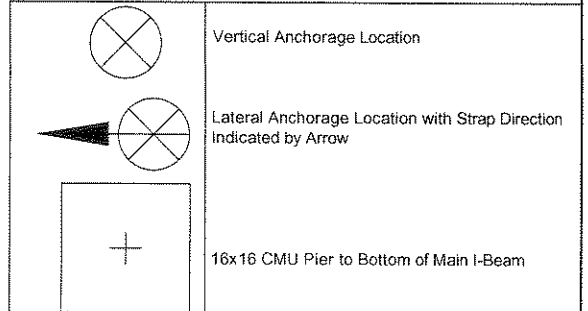
BUYER ACCEPTANCE SIGN AND DATE

Notes:

1. 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 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 assess of 22" x 24".

NTA, Inc., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA No. 184005670

FOUNDATION LEGEND



THIS DRAWING IS NOT FOR CONSTRUCTION. This drawing is intended to show the minimum foundation loads and minimum foundation support locations and is not to be used for construction or certification of any foundation for any building. The foundation for this modular building shall be designed and sealed by a local engineer for the conditions present on-site in accordance with local codes. Additionally, the foundation designed by others shall be reviewed and approved by the local authority having jurisdiction.

0110.1150 2008-12-02

REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:	Twin Modular Services Inc. Blackwood , NJ	TITLE: BLOCKING PLAN	JOB NO: TMS120511-22
	DATE: 12/08/11	DRAWN BY: R. Knowles		MODEL: 68 O/A GUARD BOOTH	DRAWING NO: 6