

NTA, Inc., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA No. 3977
These documents are applicable only to the elements and loading criteria specifically provided herein. These documents shall not be construed in any way to specify, certify or design any aspects of the building not contained herein. 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 documents have been modified, substituted or altered in any way, contact NTA, Inc. at (574) 773-7975 to obtain a file copy.

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 AWPA 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_{ty} = 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.

GUARDHOUSE LIFTING AND PLACEMENT INSTRUCTIONS

Approximate weight of guardhouse = 7000 lbs. Guardhouse should only be lifted by an experienced fork truck operator with additional help as required for site and placement. The fork-lift must have a minimum lifting capacity of 8000 lbs and a minimum fork length of 6'. The fork pockets are 32" on center and each fork slot is 7" wide and 3" in height. The fork slots are reinforced with 8" steel C-channel on the underside of the floor.

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 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

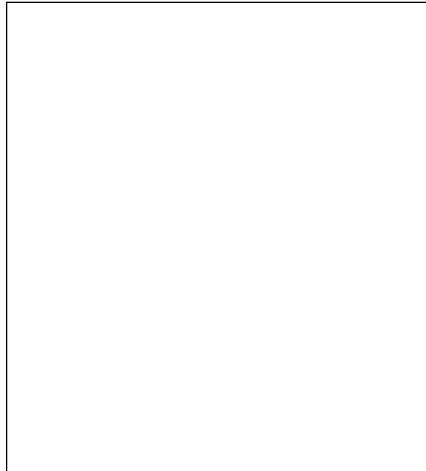
SBX = DOT Sodium Borate, CCA-C = Chromated Copper Arsenate, ACQ-C & ACQ-D = Alkaline Copper Quat, CBA-A & CA-B = Copper Azote, Non-DOT = Other Borate, ACZA = Ammoniacal Copper Zinc Arsenate

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.

06.04 2007-06-19

REVISIONS:	SCALE: NTS	APPROVED BY:	<h1>Twin Modular Services Inc.</h1> <p>Blackwood , NJ</p>	TITLE: GENERAL NOTES	JOB NO: TMS021919-7
	DATE: 02/20/2019	DRAWN BY: HDS		MODEL: 812 OPERATORS BOOTH	DRAWING NO: 1.1



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CHASSIS

Type: Perimeter Main Beam: 6" C Channel 8.2 lbs per foot
Cross Members: 6" C Channel at 24" o.c.
Paint: Marine Based 2 Part Epoxy-Black

FLOOR

Moisture Barrier: Tyvek or Equal
Insulation: 2 Layers of 2" Ridged Insulation R-19,
R-Max Per ESR-1864
Decking: 3/4" Plywood, 24" o.c. Secured Directly to Steel Frame
Trim: 4" Vinyl Cove Base - Dove Gray
Covering: 16Ga 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
Steel Tube: 3"x3"x3/16" Steel Tube Beams and Corner Posts
Exterior Sheathing: 7/16" OSB Sheathing 24/16
Wall Height: 8'-3"
Finished Ceiling Height: 7'-9" AFF
Insulation: R-13 Kraft-Backed Batts
Interior Wall Covering: 1/4" Vinyl Covered Paneling
Moisture Barrier: House Wrap Exterior Walls - Tyvek or Equal

ROOF

Type: Rafter, 2x8 #3 SPF at 16" o.c. Bow Type
Ceiling: 2'x4' T-Grid Drop Ceiling at 7'-9" AFF
Insulation: R-30 Kraft Unfaced Fiberglass Batts
Overhang: 3" on 12' Sides and 6" on 8' Sides
Roofing: EPDM Rubber Roofing per ESR3026

ENERGY PACKAGE

Exterior Light: (1) Exterior LED Security Light Fixture with Integral Photo Eye Switch (dusk to dawn)
(1) Exterior LED Above Door Light Fixture on an Interior Toggle Switch
Interior Lights: (2) 2'x4' 120V LED with Prismatic Lens - Lithonia Type 2GTL460LEZ1LP840

ELECTRICAL

Main Distribution Panel: Exterior Surface Mount, 100 Amp. Single Phase, 3 wire, 60 HZ with Ground 12/24
Space NEMA 3R Type
Raceway: Minimum #14/2 with Ground 90 Deg. C Type MC Copper
Interior Lights: See Above Energy Package
Exterior Lights: See Above Energy Package
Switches: 120V 15 Amp Duplex Recepters per Print
Recepters: 20 Amp - 120V Duplex Recepters per Print
Optional Data Box: Exterior Data Junction Box with Conduit to Interior Under Desk

HVAC

Heating: 220V, 20 Amp, 3,000 Watt Wall Mount, Dedicated Circuit
Air Conditioning: 230V (Dedicated Circuit) 12,000 BTU Wall Mount Approx 75" AFF
Optional: Wall Mount 12,000 BTU Air Conditioner with Electric Heat Strip

EXTERIOR WINDOWS AND DOORS

Doors: 36"x80" Steel Door with 22" x36" Window (Safety Glazed) Ball Hardware and Heavy Duty Closer,
Schlage Ball Type Lockset
Windows: 36"x39" Horizontal Slider, Vinyl Clad Thermal Pane Tempered Low-E Type 4 per Print
36"x39" Fixed Glazing, Vinyl Clad Thermal Pane Low-E Type 4 per Print
Optional Film Tint: All Windows and Door Vision to be Tinted on the Inside with VLT-50 Low Exterior
Reflectance Film

EXTERIOR FINISHES

Siding: 0.19 Aluminum Light Gray
Trim: 0.19 Aluminum Dark Gray
Wall Sheathing: 7/16" OSB, 24/16 APA Span Index Rating
Roof Sheathing: 1/2" CDX Plywood, 24/16 Span Rating
Roof: 0.45 EPDM Rubber Roofing
Door Trim: 2-1/2" Non Corrosive Solid Vinyl Painted White
Window Trim: 2"x2"x0.19" Aluminum Corner - White

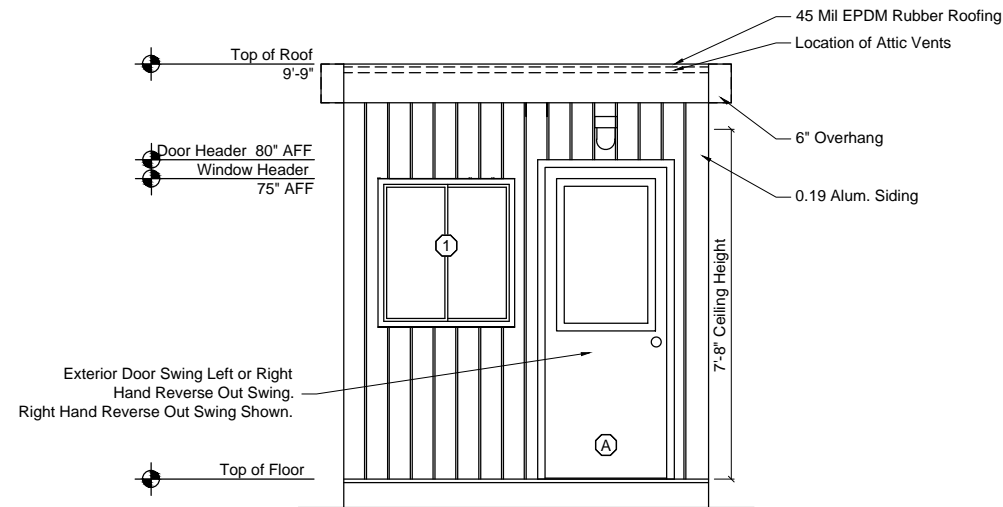
FURNITURES

Furniture: 24"x7'-5" Laminated Counter Top with 3 Draw File Cabinet

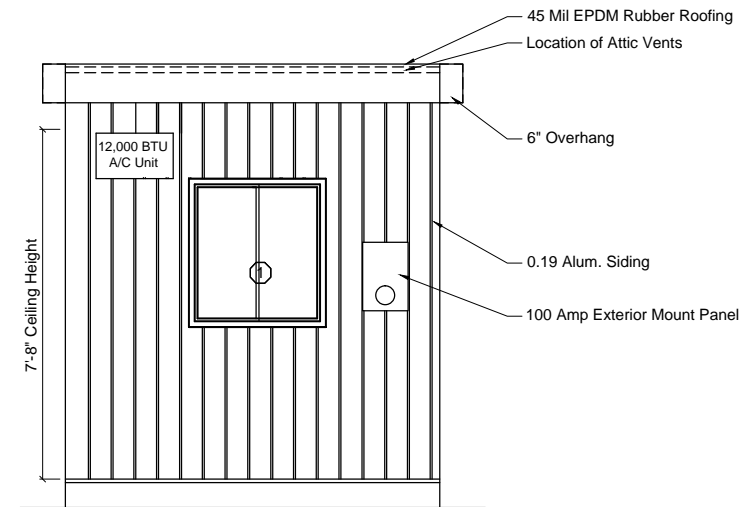
06.04 2007-06-19

REVISIONS:	SCALE: NTS	APPROVED BY:	Twin Modular Services Inc. Blackwood , NJ	TITLE: SPECIFICATIONS	JOB NO: TMS021919-7
	DATE: 02/20/2019	DRAWN BY: HDS		MODEL: 812 OPERATORS BOOTH	DRAWING NO: 1.2

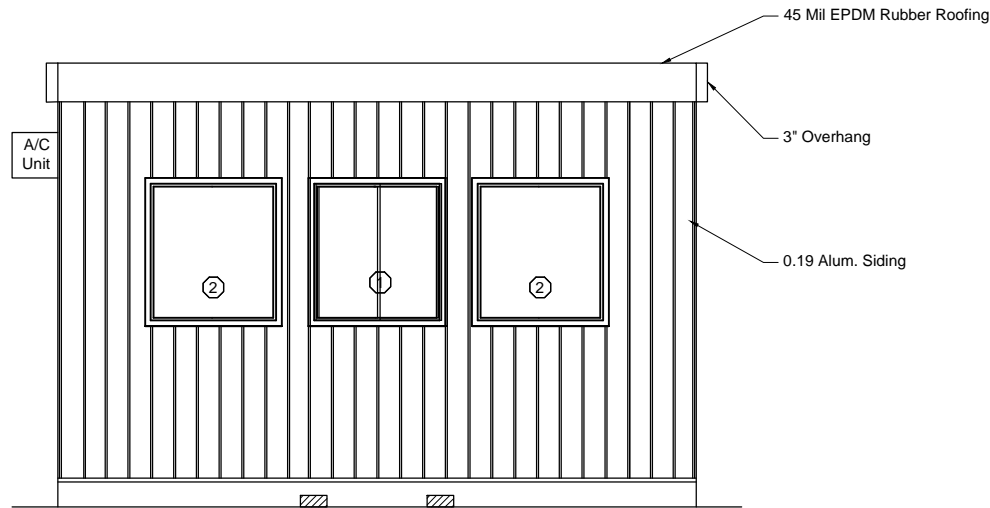
PLAN A ELEVATIONS



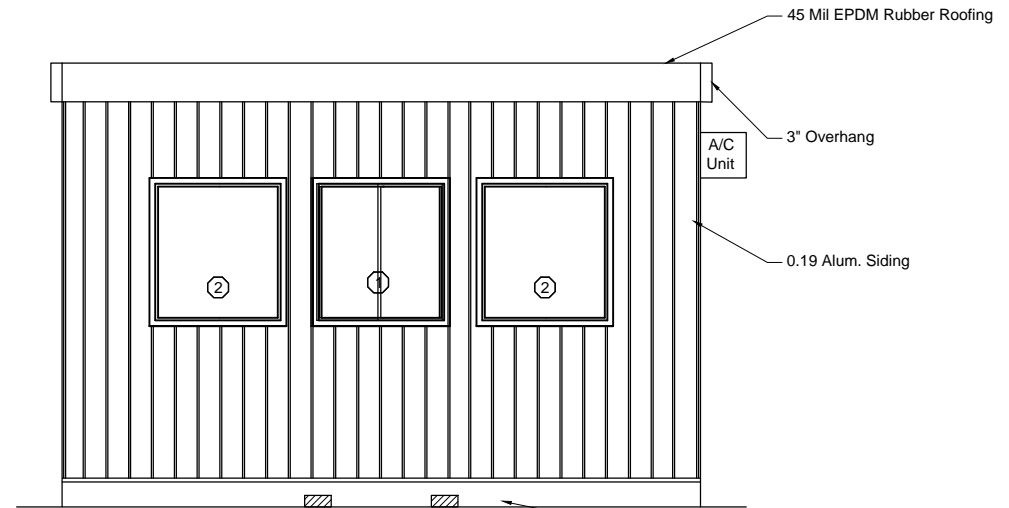
FRONT ELEVATION- PLAN A
SCALE: 1/4" = 1'-0"



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"

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All Windows to be Low-E, Tempered and Tinted

DOOR SCHEDULE	
Mark	Description
(A)	36" x 80" Steel Door with 22"x22" window, closer and ball knob
WINDOW SCHEDULE	
Mark	Description
(1)	36" x 39" Horizontal Slider, Vinyl Clad Thermal Pane, Tempered Safety Glazing
(2)	36" x 39" Fixed, Vinyl Clad Thermal Pane, Tempered 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.

96 Area /150= 0.64 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.

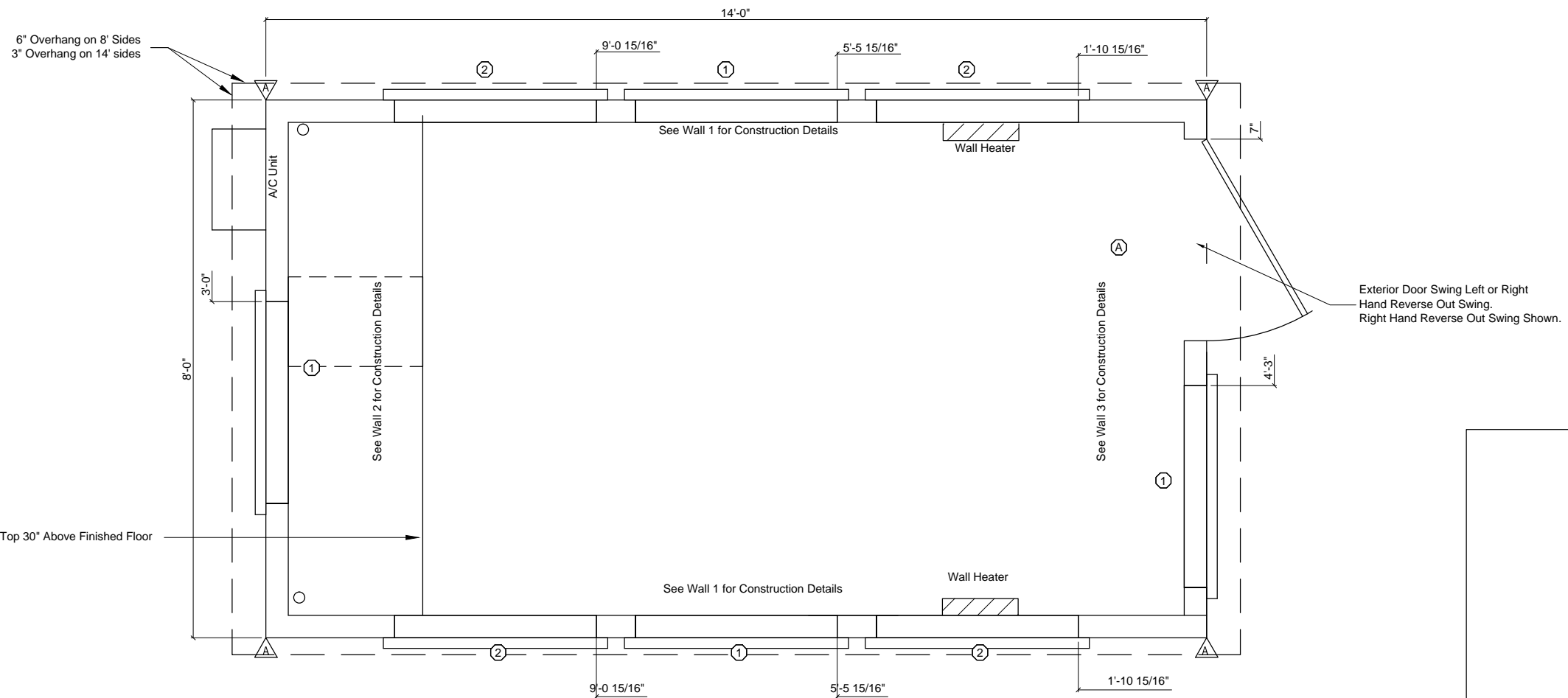
HEIGHT ABOVE FINISHED GRADE
Height above finished grade shall be established by a site-specific foundation design or by the local authority having jurisdiction. In no case shall the bottom of the floor joists be closer than 18" to exposed ground.

REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:
	DATE: 02/20/2019	DRAWN BY: HDS

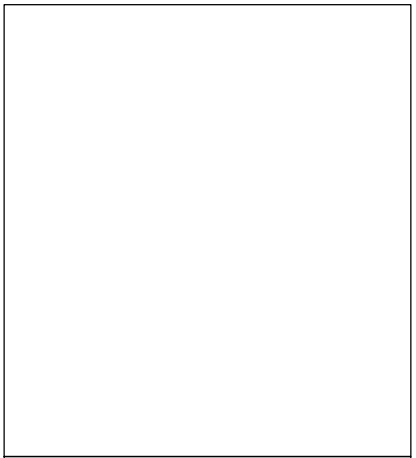
Twin Modular Services Inc.
Blackwood , NJ

TITLE: ELEVATIONS PLAN A	JOB NO: TMS021919-7
MODEL: 812 OPERATORS BOOTH	DRAWING NO: 2A

0105.1151 2008-12-02



PLAN A FLOOR PLAN



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BUYER ACCEPTANCE PLAN A SIGN AND DATE

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/CSA101/I.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.

SHEARWALL CONSTRUCTION

1. Alternate holddown of equal or greater capacity may be substituted for holdowns specified.
2. Holddowns to be installed in accordance with manufacturer's installation instructions.

DOOR SCHEDULE

Mark	Description	Hardware	Header	Jack Studs	Jamb Studs
(A)	36" x 80" Steel Door with 22"x36" window, closer and ball knob	Ball Knob	(1) 2x4 #2 SPF	1	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" Fixed, Vinyl Clad Thermal Pane, Tempered Safety Glazing	9.75 ft ²	4.87 ft ²	(1) 2x4 #2 SPF	0	1

SHEARWALL SCHEDULE

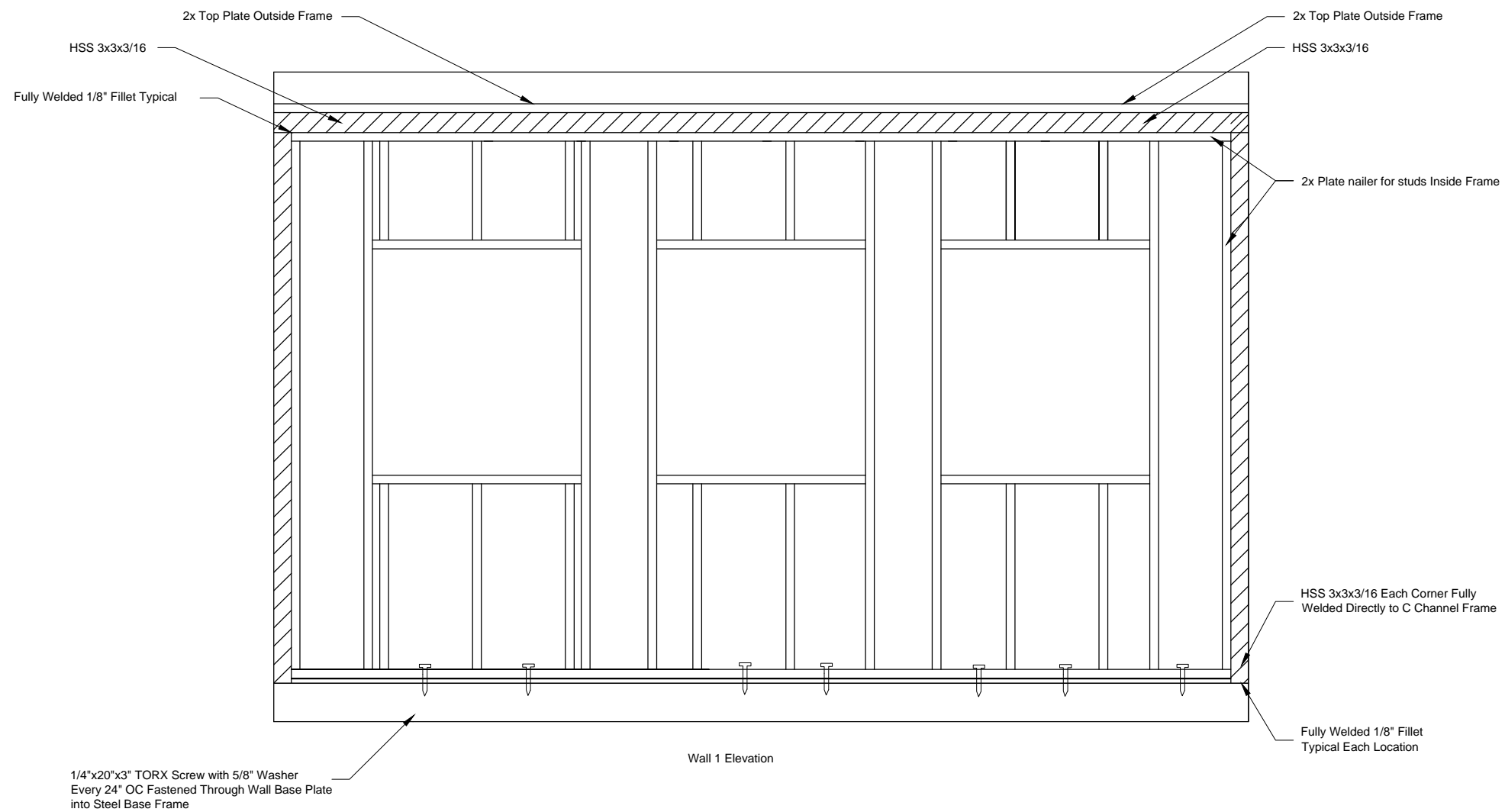
Mark	Sheathing	Fastening	Framing
(A)	7/16" Structural Sheathing, One Side, Blocked	0.113" x 2.5" nails 6/12 (edge/field)	2x4 SPF @ 16" oc

0106 2008-09-23

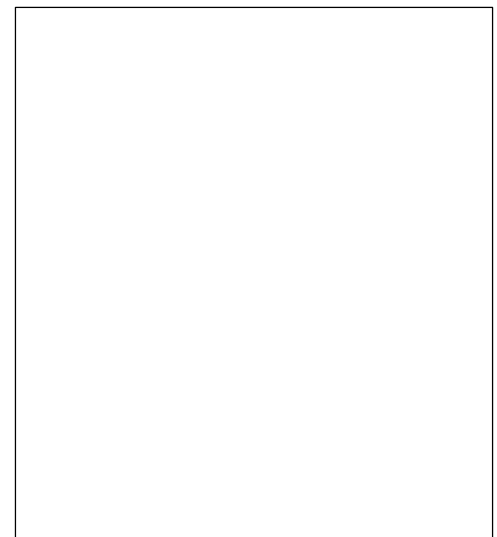
REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:
	DATE: 02/20/2019	DRAWN BY: HDS

Twin Modular Services Inc.
Blackwood, NJ

TITLE: FLOOR PLAN A	JOB NO: TMS021919-7
MODEL: 812 OPERATORS BOOTH	DRAWING NO: 3A



PLAN A WALL DETAILS



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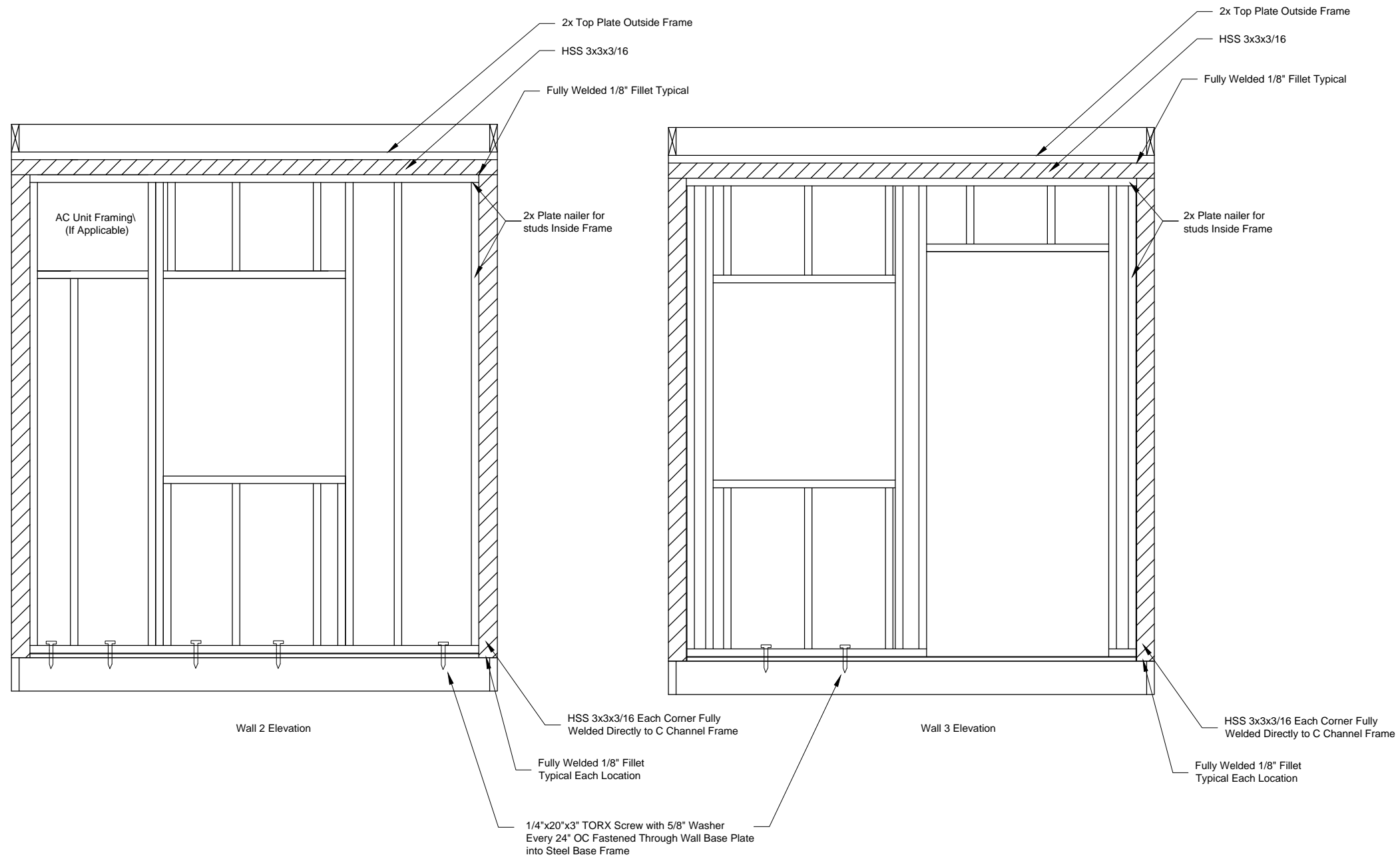
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	DATE: 02/20/2019	DRAWN BY: HDS

Twin Modular Services Inc.
Blackwood , NJ

TITLE: FRAMING DETAILS	JOB NO: TMS021919-7
MODEL: 812 OPERATORS BOOTH	DRAWING NO: 3.1



PLAN A WALL DETAILS

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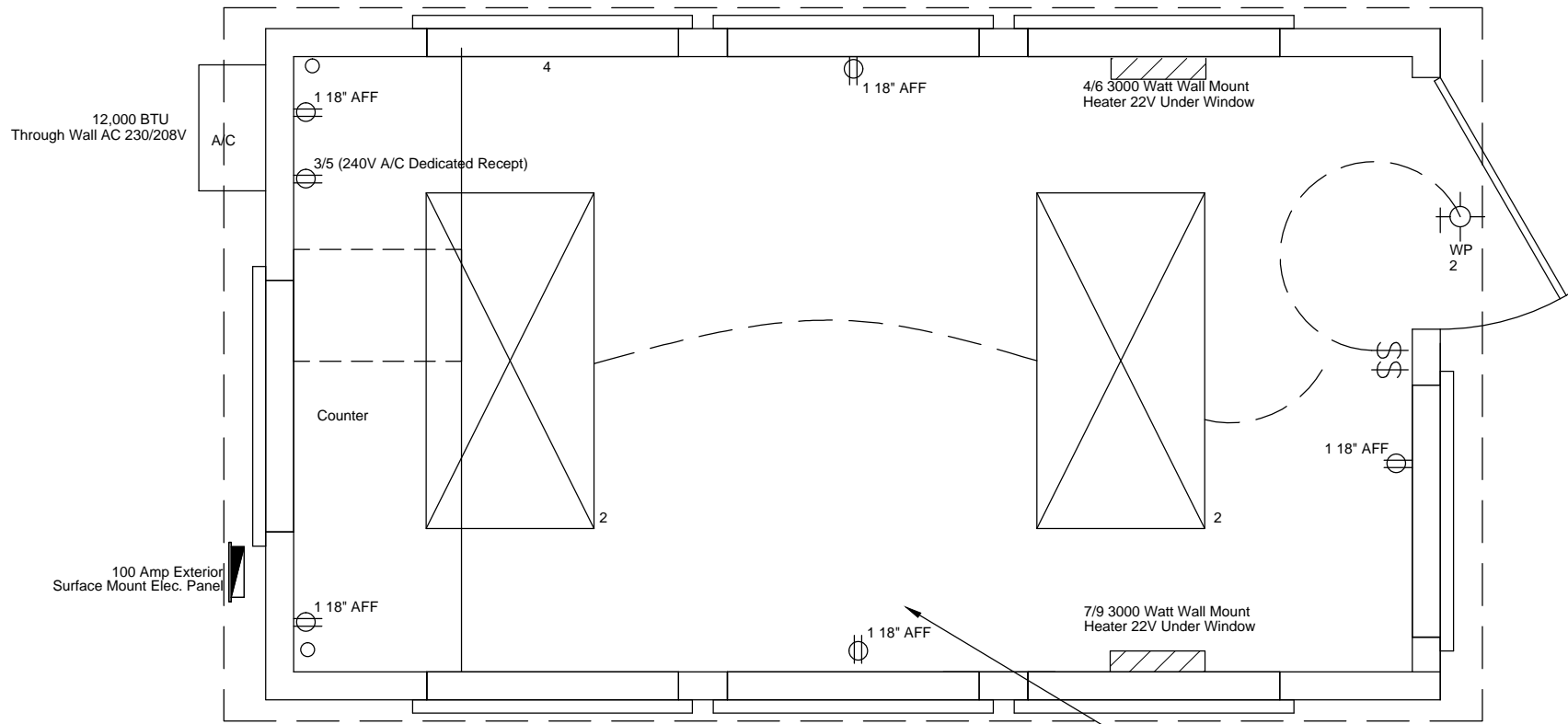
REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:
	DATE: 02/20/2019	DRAWN BY: HDS

Twin Modular Services Inc.
Blackwood , NJ

TITLE: FRAMING DETAILS	JOB NO: TMS021919-7
MODEL: 812 OPERATORS BOOTH	DRAWING NO: 3.2

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PLAN A ELECTRICAL DESIGN

Optional Counter Full Length with 3 File Cabinets Under Counter

BUYER ACCEPTANCE PLAN A SIGN AND DATE

Electrical Specifications

Product	Manufacturer	Model and Specifications
3,000 Watt Wall Mount Heater	Marley Fahrenheit	Model FLZ3004 Fahrenheit or Equal 240V
Interior Drop in Light	Lithonia	LED Type per Spec Page 2
Exterior Lighting	Lithonia	LED Type per Spec Page 2
A/C Unit	Garrison	Garrison Type Model 208/230V 12,000 BTU

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

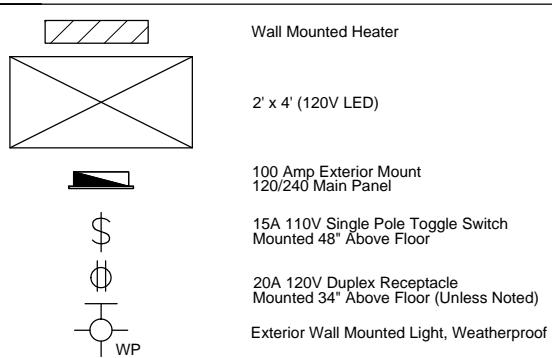
**100 Amp. ELECTRICAL PANEL SCHEDULE
120/240-V, 3-Wire, Single Phase
10 Space, 20 Circuit Minimum**

Circuit Number & Type	Wire Size & Quantity	Breaker		Description
		Trip	Pole	
1	12-2	20	1	Recept
2	14-2	15	1	Lights
3/5	12-2	20	2	A/C
4/6	12-2	20	2	Wall Heater
7/9	12-2	20	2	Wall Heater

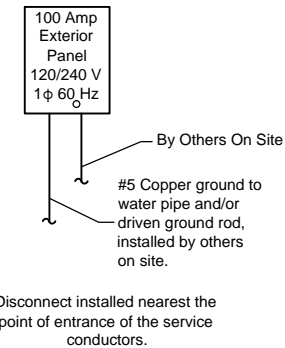
**DISTRIBUTION PANEL SIZING
120/240-V, 3-Wire, Single Phase**

Receptacles (4x180)	720 W
Lighting (96 sq. ft x 3w)	288 W
Wall Heater (2x3000W)	6000 W
A/C	1650 W
8658 W / 240 V = 37A Service Rating	

ELECTRICAL LEGEND



100 AMP ELECTRICAL RISER DIAGRAM



ELECTRICAL

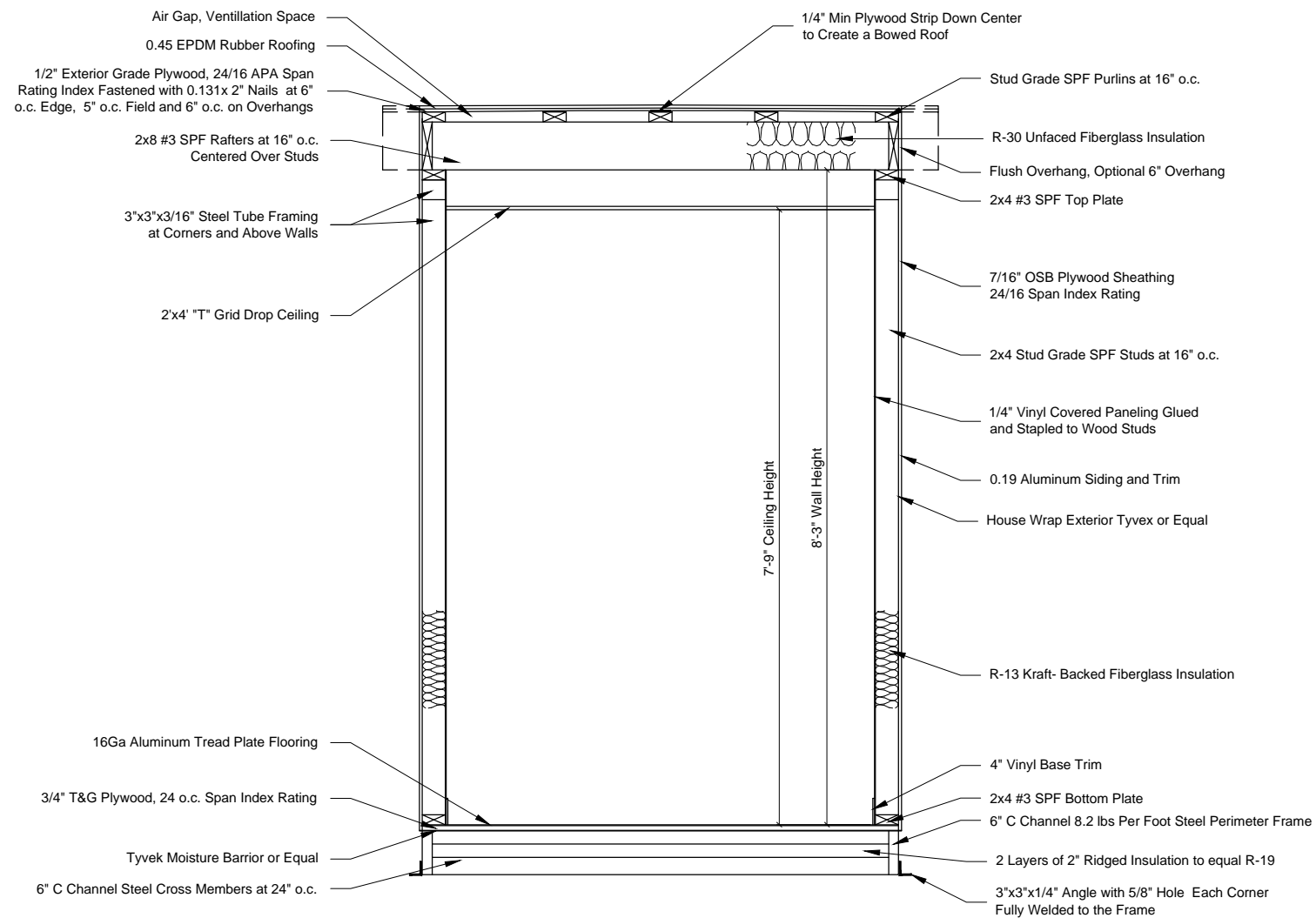
- All Receptacles to be the grounding type.
- All Wiring to be per the edition of the NEC Listed on the Cover Page, Type MC CU with ground.
- Main panel to be marked "Suitable For Use As Service Equipment" and be equipped with breaker/ fuse type overcurrent protection.
- Proper thermal overload protection 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 recepts on 15A circuit, Maximum 7 (4) Tube florescent lights on a 15A circuit.
- Maximum 20 (2) tube florescent lights in 20A circuit, Maximum 13 recepts 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.

0107 2008-09-23

REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:
	DATE: 02/20/2019	DRAWN BY: HDS

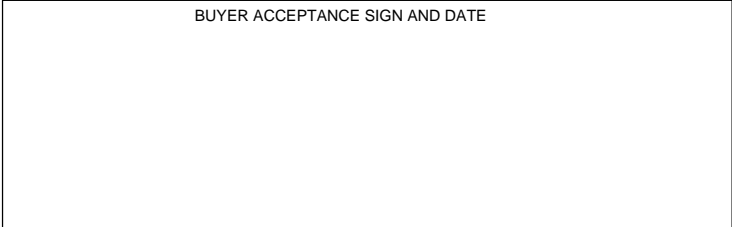
Twin Modular Services Inc.
Blackwood , NJ

TITLE: ELECTRICAL PLAN A	JOB NO: TMS021919-7
MODEL: 812 OPERATORS BOOTH	DRAWING NO: 4A



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NOTES

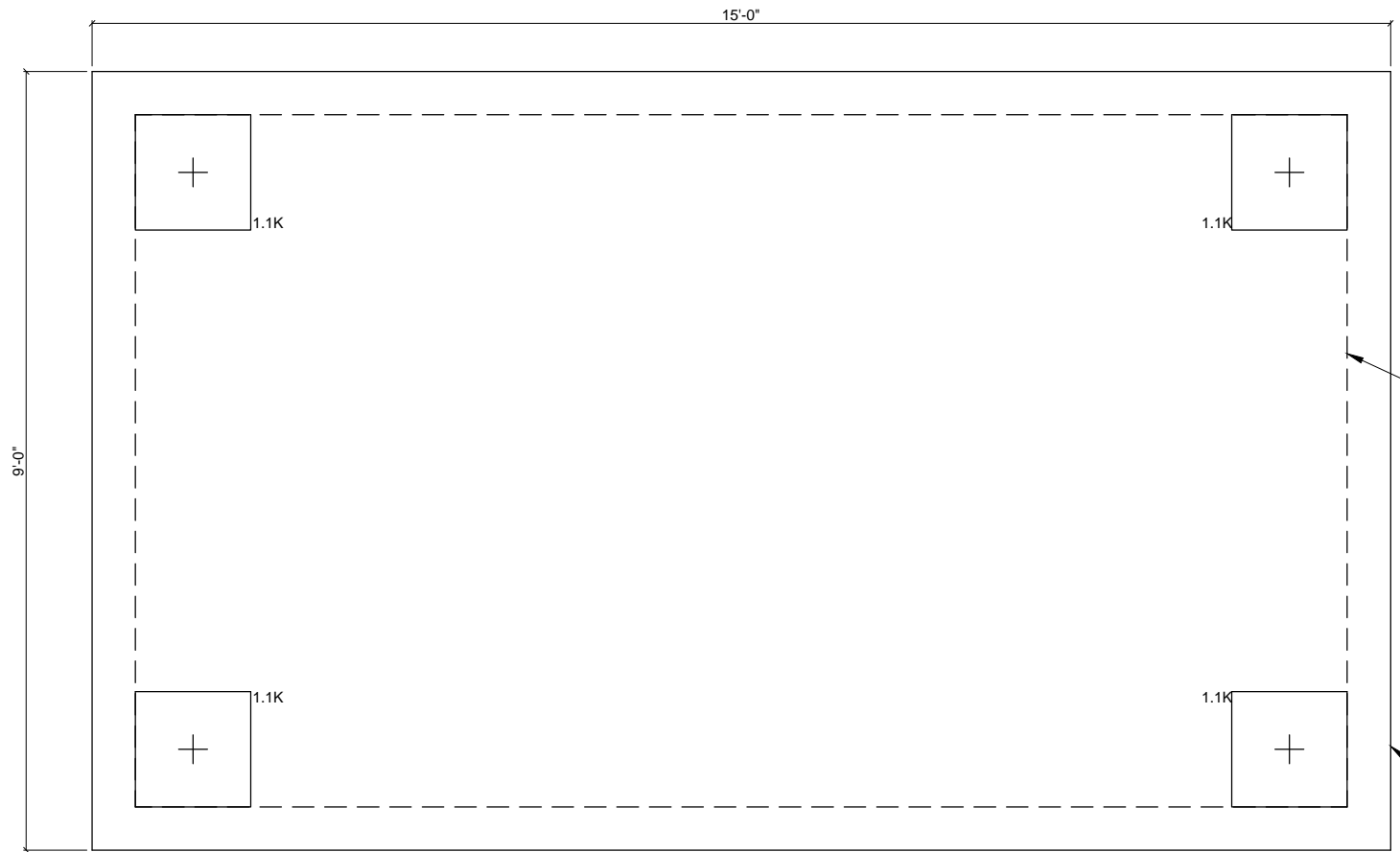
1. Fireblocking shall be installed at the floor and ceiling level. Fireblocking material shall be as permitted in Virginia Building Code Exterior joints in the building envelope that are sources of air leakage, such as floor and ceiling lines, door and windows, or any other penetrations through the building 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.
2. 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:
 - A. Where the framed cavity or space is ventilated to allow moisture to escape.
3. 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.
4. Additional connections per standard construction manual or calculations package

0110.1150 2008-12-02

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	DATE: 02/20/2019	DRAWN BY: HDS

Twin Modular Services Inc.
Blackwood , NJ

TITLE: CROSS SECTION	JOB NO: TMS021919-7
MODEL: 812 OPERATORS BOOTH	DRAWING NO: 5



Floor Plan Option A and B

8'X14' Guardhouse Perimeter, Installation and Anchoring By Others

9'X15' Concrete Pad Design, Installation and Anchoring By Others

Note: Secure to foundation at corners to resist 1000 lbs overturning force.
Fasten perimeter to foundation to resist 1400 lbs shear force at each wall.

BUYER ACCEPTANCE SIGN AND DATE

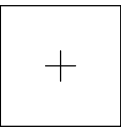
Notes:

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.



**NTA, Inc., 305 N Oakland Ave
Nappanee, Indiana 46550
Engineering COA No. 3977**

These documents are applicable only to the elements and loading criteria specifically provided herein. These documents shall not be construed in any way to specify, certify or design any aspects of the building not contained herein. 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 documents have been modified, substituted or altered in any way, contact NTA, Inc. at (574) 773-7975 to obtain a file copy.

FOUNDATION LEGEND	
	Foundation to support load listed
0110.1150 2008-12-02	

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.

REVISIONS:	SCALE: 1/2" = 1'-0"	APPROVED BY:	<h1>Twin Modular Services Inc.</h1> <p>Blackwood , NJ</p>	TITLE: BLOCKING PLAN	JOB NO: TMS111417-70
	DATE: 11/27/2017	DRAWN BY: MJH		MODEL: 812 OPERATORS BOOTH	DRAWING NO: 6