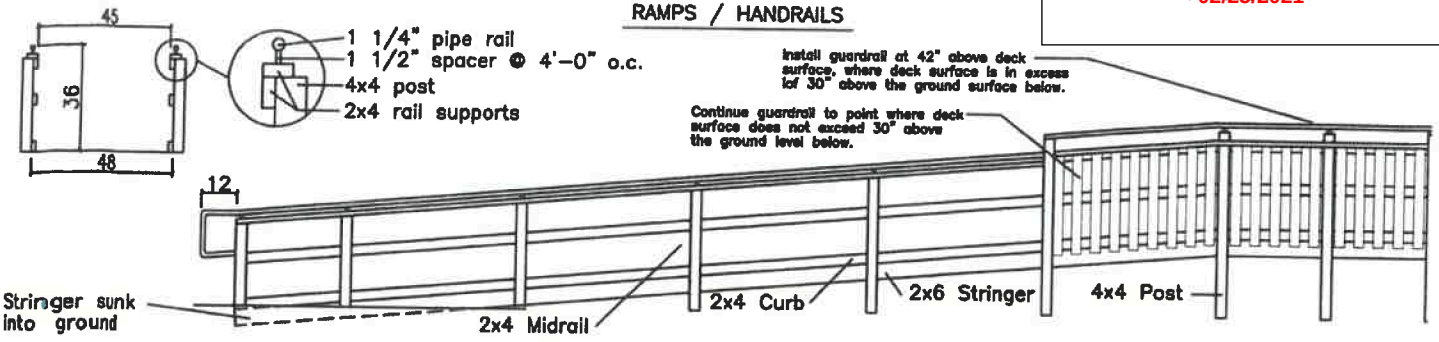
NOTE: THESE DRAWINGS REFLECT A WOOD RAMP/DECK/STEPS ON A NATURAL SURFACE OF GRASS OR DIRT.

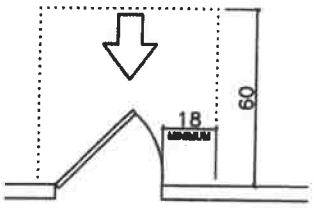
RAMPS / HANDRAILS



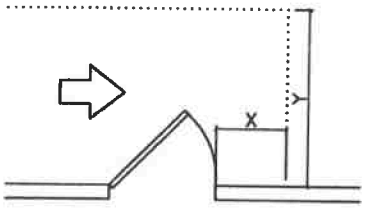
Ramp / Handrail Notes:

1) Changes in level up to 1/4" may be vertical, between 1/4"–1/2" must be beveled, with a slope not to exceed 1:2, and any change in level greater than 1/2" must be accomplished by means of a ramp.
2) The maximum slope for a ramp is 1:12. The maximum rise for any unbroken run shall be 30". The maximum cross-slope for any ramp surface shall be 1:50.
3) The minimum clear width for a ramp 30'–0" or less in length shall be 36", and any ramp with a run longer than 30'–0" shall have a minimum clear width of 44".
4) Any change in level greater than 6" shall have handrails on both sides.
5) If a ramp changes direction at a landing, the minimum landing size shall be 60" by 60".
6) Ramps shall have level landings at the top and bottom of each run.
7) Handrails shall be provided on both sides of ramp segments. The inside handrail on switchback or dogleg ramps shall always be continuous.
8) If handrails are not continuous, they shall extend at least 12" beyond the top and bottom of the ramp segment, and shall be parallel with the ground or floor surface.
9) The clear space between a handrail and a wall shall be 1 1/2".
10) Gripping surfaces shall be continuous. In Louisiana, they must provide for a "power grip" in which the fingers may be wrapped around the handrail, as opposed to a "pinch grip", in which the handrail is squeezed between the thumb and fingers.
11) The top of handrails shall be mounted between 34"–38" above the ramp surface. Where a handrail is to be used primarily by children, the top of the handrail may be lowered to 28"–32".
12) Ends of handrails shall be either rounded, or returned smoothly to the floor, wall, or post.
13) Handrails shall not rotate within their fittings.
14) Handrails shall be between 1 1/4"–1 1/2" diameter, or shall provide an equivalent gripping surface.
15) A handrail and any wall or other surface adjacent to it shall be free of any sharp or abrasive elements.
16) Ramps and landings with drop-offs shall have curbs, walls, railings, or projecting surfaces which prevent people from slipping off the ramp. Curbs shall be a minimum of 2" high.
17) Handrail edges shall have a minimum radius of 1/8".

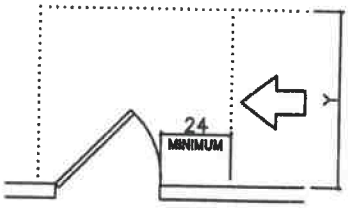
LANDINGS



FRONTAL APPROACH



HINGE SIDE APPROACH
X=36" min. if Y=60"
X=42" min. if Y=54"

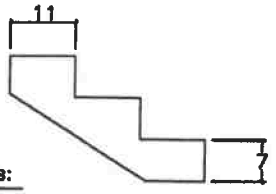


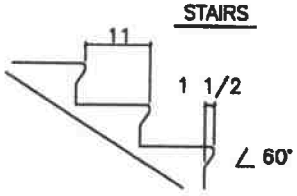
LATCH SIDE APPROACH
Y=48" Minimum
Y=54" minimum if door has closer

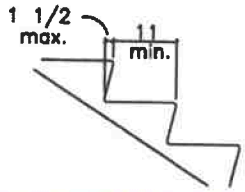
Landing Notes:

1) Landings shall be at least as wide as the ramp leading to it.
2) Landings at the top and bottom of each ramp or ramp run shall have a minimum of 60" clear in the direction of travel.
3) If ramps change direction at landings, the minimum landing size whall be 60" x 60".
4) Landings at doors must be level. Where a door swings onto the landing, the width of landing between the latch latch side of the door, and the railing is to be determined as shown in the pictures above.

STAIRS



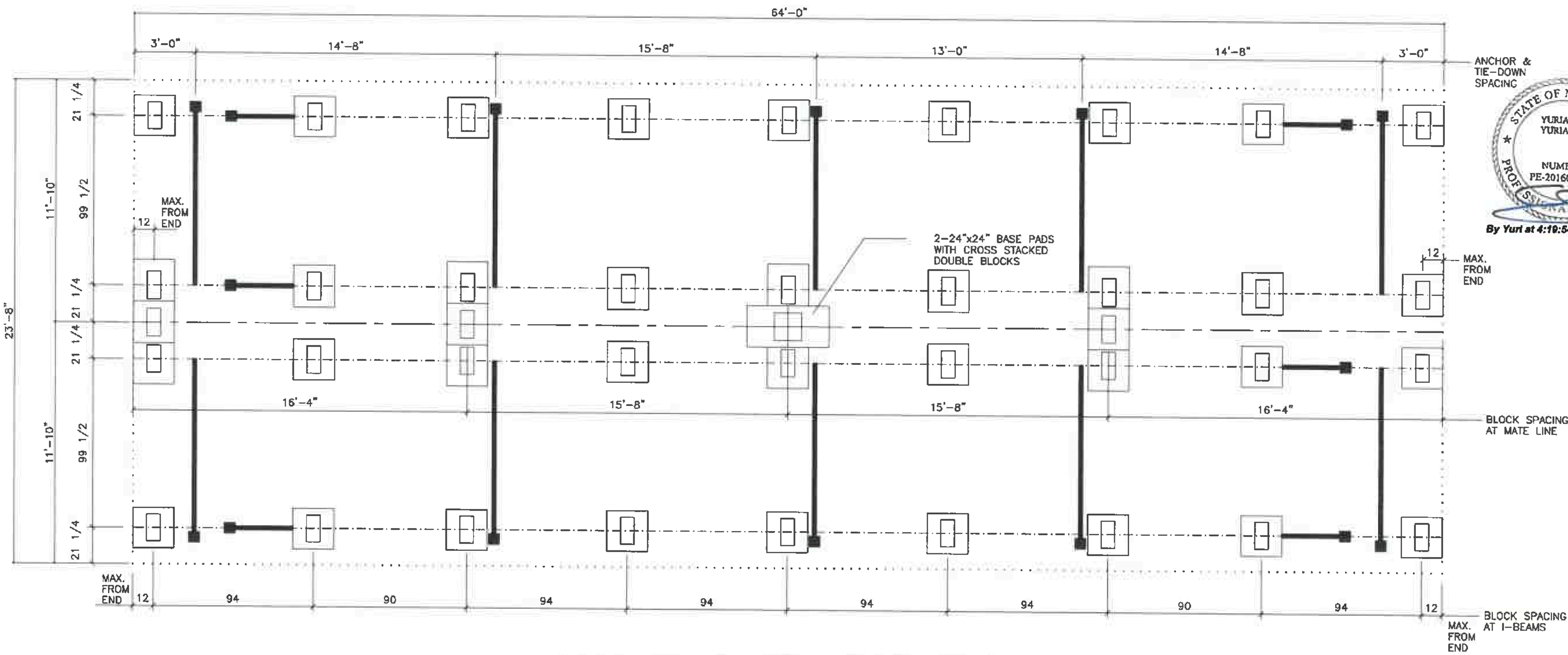




Step Notes:

1) Treads and risers are to be uniform in depth and height, and are to be a minimum of 11" deep, and a maximum of 7" high.
2) Stair nosings shall not be abrupt. The radius of curvature at the leading edge of the tread shall be no greater than 1/2".
3) Risers shall be sloped, or the underside of the nosing shall have an angle not less than 60° from horizontal.
4) Stair nosings shall not project more than 1 1/2".
5) Tread depth is to be measured horizontally from nosing to nosing.
6) Stairs must have a minimum clear width of 44". Handrails may project a maximum of 3 1/2", but can't reduce the 44" width.
7) Handrails at stairs shall be either continuous, or shall extend at least 12" beyond the top riser, and extend at least 12" plus the width of one tread beyond the bottom riser. At the top the extension shall be parallel with the floor or ground surface. At the bottom, the handrail is to continue to slope for a distance of one tread depth beyond the bottom riser, then become horizontal. Handrail mounting height is measured from edge of stair nosing.
8) Gripping surfaces shall not be interrupted by newell posts, other construction elements, or obstructions.
9) Handrails at stairs shall meet all of the requirements listed above in the ramp / handrail section.

LTR	REVISION	BY	DATE	DRAWN BY:	TITLE:	SCALE:	DWG. NO.	DATE:
				SGD	Decks, Steps, Ramps, and Handrails	3/16" = 1'-0"	DECK STEP & RAMP DETAILS	12/20/201



SYMBOL LEGEND

LATERAL FRAME TIE-DOWN STRAP SECURED TO I-BEAM AT AN ANGLE NOT TO EXCEED 45° FROM HORIZONTAL

LONGITUDINAL FRAME TIE-DOWN STRAP SECURED TO BOTTOM OF I-BEAM AT AN ANGLE NOT TO EXCEED 45° FROM HORIZONTAL

NOTES:

1. BLOCK SPACING MAY VARY DUE TO AXLE HANGERS OR OTHER STRUCTURAL OBSTRUCTIONS.
2. BASE PADS ARE TO BE 24" x 24" ABS PADS. ADDITIONAL BASE PADS MAY BE USED AT EXTERIOR DOOR LOCATIONS FOR DOOR ADJUSTMENT WHERE NECESSARY.
3. SINGLE BLOCK STACKS ARE LIMITED TO THREE BLOCKS HIGH. ANY BLOCK STACK REQUIRING MORE THAN THREE 8" x 8" x 16" BLOCKS MUST BE DOUBLED AND CROSS-STACKED. THIS DOES NOT CHANGE ANCHORING LOCATIONS OR QUANTITIES.
4. ASSUMED SOIL BEARING CAPACITY IS 2000 PSF. SITE SPECIFIC SOIL CONDITIONS ARE TO BE VERIFIED BY OWNER, OR OWNER'S AGENT.

PFS APPROVED
DATE 6/23/20
PFS CORPORATION
Cottage Grove, WI

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
07/02/2020
MANUFACTURED HOUSING

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/25/2021

Piers to be installed per engineer's letter

STATE OF MISSOURI
YURIANTO YURIANTO
NUMBER PE-2016009131
PROFESSIONAL ENGINEER

By Yuri at 4:19:54 PM, 6/11/2020

1 BLOCKING & TIE-DOWN LAYOUT
SCALE: 3/16" = 1'-0"

MODULAR STRUCTURAL CONSULTANTS LLC
9720 COIT RD. STE. 220-150
PLANO, LEE'S SUMMIT, MO 75025-5833
PHONE: 972-998-5373
TX. REGISTRATION # F-15882

PALOMAR
MODULAR BUILDINGS LLC

No.	DESCRIPTION	BY	DATE

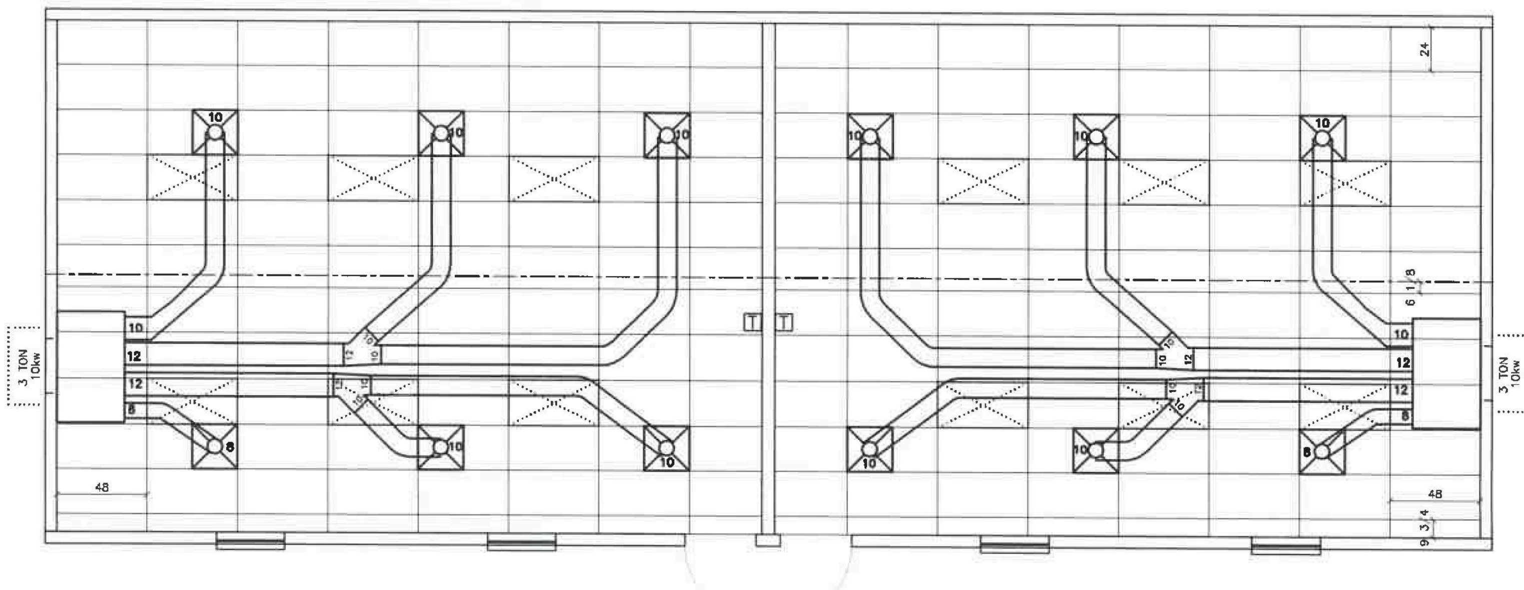
DATE:	6/9/2020
SCALE:	3/16" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	NM
CHECKED BY:	

DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
BLOCKING & TIE-DOWN LAYOUT
2464 DRY CLASSROOM
SERIAL #: 2279-2280

SHEET No.
S-1

P:\PALOMAR\Drawings\2279-80 - Lees Summit\2464 DRY CLASSROOM 2.dwg, 6/11/2020 3:50:31 PM, NMiller

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/25/2021



By Yuri at 4:20:05 PM, 6/11/2020
(Structural Aspects Only)

STATE OF MISSOURI
YURIANTO YURIANTO
NUMBER PE-2016009131
PROFESSIONAL ENGINEER

SYMBOL LEGEND	
(symbol)	2' x 4' LED LIGHT (44 WATTS)
(symbol)	24"x 24" SUPPLY DIFFUSER
T	PROGAMMABLE THERMOSTAT

NOTE: DUCTING IS CLASS 1, U.L. 181 LISTED FLEXIBLE FIBERGLASS DUCTING.
NOTE: RETURN AIR IS DIRECT TO THE UNIT THROUGH THE WALL.

MISSOURI PUBLIC SERVICE COMMISSION
APPROVED
07/02/2020
MANUFACTURED HOUSING

PFS APPROVED
DATE 6/23/20
PFS CORPORATION
Cottage Grove, WI

(1) CEILING GRID / HVAC LAYOUT
SCALE: 1/8" = 1'-0"

MODULAR STRUCTURAL CONSULTANTS LLC
8720 COIT RD. STE. 220-180
PLANO, LEE'S SUMMIT, MO 75025-0833
PHONE 672-886-5373
TX. REGISTRATION # F-15882

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No.	DESCRIPTION	BY	DATE
		RR	2/7

DATE:	6/9/2020
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	NM
CHECKED BY:	

DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
CEILING GRID / HVAC LAYOUT
2464 DRY CLASSROOM
SERIAL #: 2279-2280
SHEET No.
M-1

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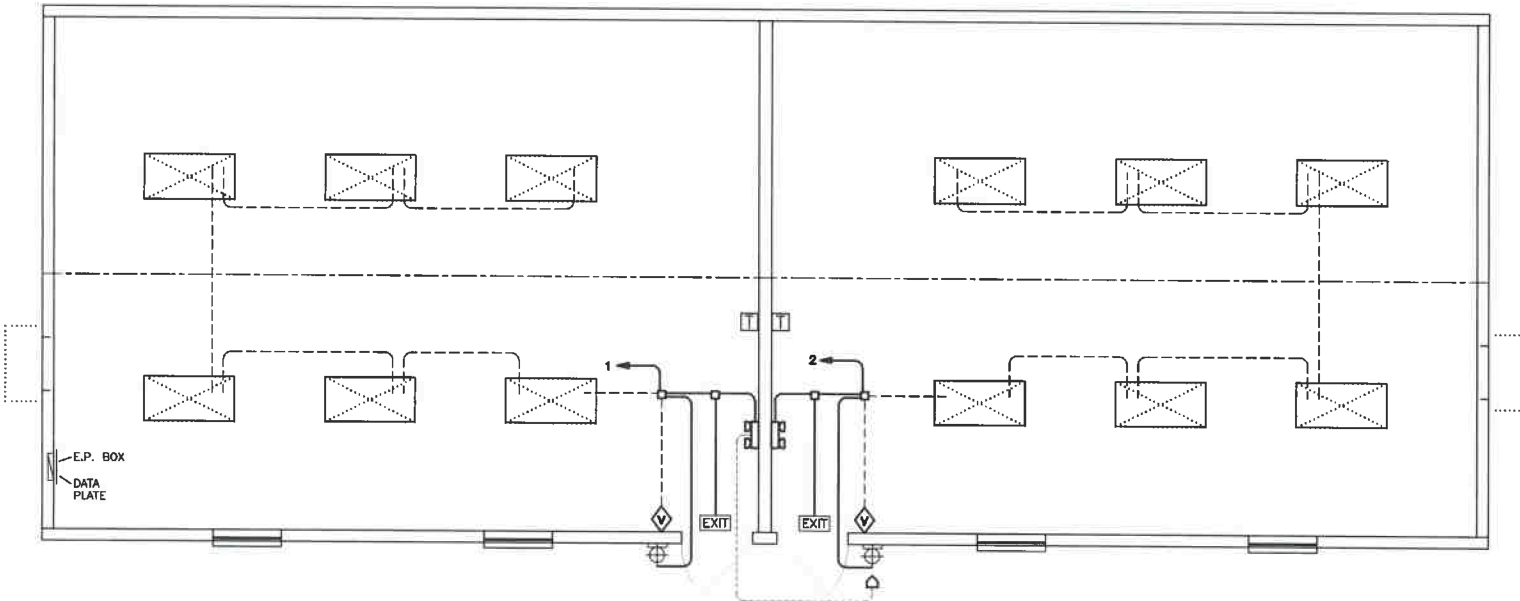
STATE OF MISSOURI
YURIANTO YURIANTO
NUMBER PE-2016009131
PROFESSIONAL ENGINEER

By Yuri at 4:20:06 PM, 6/11/2020

(Structural Aspects Only)



ELECTRICAL SYMBOL LEGEND

[light symbol]	48" x 24" LED LIGHT (44w)	[receptacle]	RECEPTACLE	[T]	7-DAY PROGRAMMABLE THERMOSTAT w/ OCCUPANT OVERRIDE	[box]	JUNCTION BOX
[exterior light symbol]	VANDAL-PROOF EXTERIOR LED LIGHT ON PHOTOCELL (22w)	GFI	GFI RECEPTACLE	[V]	OCCUPANCY SENSOR SWITCH IPV15	[panel]	ELECTRICAL DIST. PANEL
		TR	TAMPER-RESISTANT RECEPTACLE	[triangle]	PHONE / DATA STUB-IN	EXIT	LED EXIT LIGHT w/ BATTERY BACK-UP
		WP GFI	WEATHER-PROOF GFI RECEPTACLE			[emergency]	EMERGENCY LIGHT w/ BATTERY BACK-UP & REMOTE HEAD
						[head]	EXTERIOR REMOTE HEAD

1 LIGHTING SCHEMATIC
SCALE: 1/8" = 1'-0"

MODULAR STRUCTURAL CONSULTANTS LLC
9720 COIT RD. STE. 220-150
PLANO, LEE'S SUMMIT, MO 75025-0533
PHONE: 972-866-5373
TX. REGISTRATION # F-15882

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505 N. I-35E
DESOTO, LEE'S SUMMIT, MO 75115
PH: 469-737-0727

No.	DESCRIPTION	BY	DATE

DATE:	6/9/2020
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	NM
CHECKED BY:	

DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
LIGHTING SCHEMATIC
2464 DRY CLASSROOM
SERIAL #: 2279-2280

SHEET No.
E1

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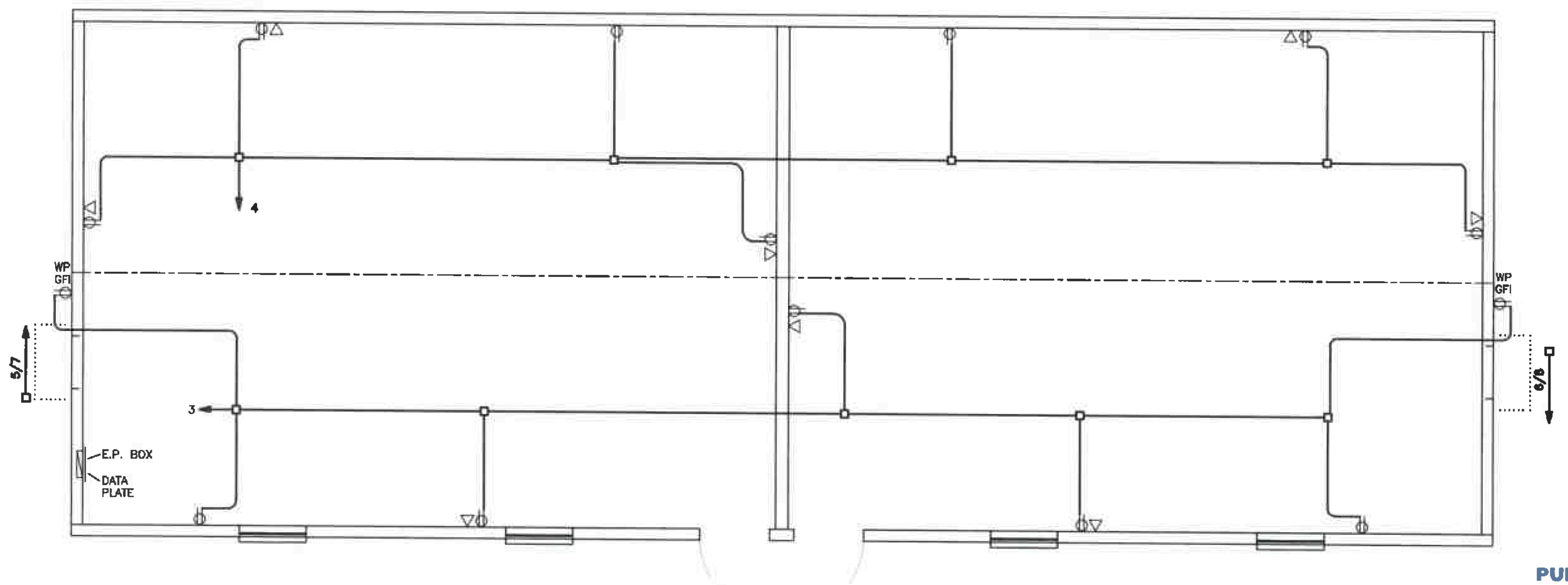

ELECTRICAL SYMBOL LEGEND

48" x 24" LED LIGHT (44w)	RECEPTACLE	7-DAY PROGRAMMABLE THERMOSTAT w/ OCCUPANT OVERRIDE	JUNCTION BOX
VANDAL-PROOF EXTERIOR LED LIGHT ON PHOTOCELL (22w)	GFI RECEPTACLE	OCCUPANCY SENSOR SWITCH IPV15	ELECTRICAL DIST. PANEL
	TAMPER-RESISTANT RECEPTACLE	PHONE / DATA STUB-IN	LED EXIT LIGHT w/ BATTERY BACK-UP
	WEATHER-PROOF GFI RECEPTACLE		EMERGENCY LIGHT w/ BATTERY BACK-UP & REMOTE HEAD
			EXTERIOR REMOTE HEAD

NOTE:
BUILDING IS: 120/240v 3-WIRE SINGLE PHASE
ELECTRICAL CONDUIT: ELECTRICAL NON-METALLIC TUBING
ELECTRICAL WIRING: MIN. #12 THHN COPPER WITH GROUND
GROUNDING ON SITE: PER 2014 NEC ARTICLE 250-50

PFS APPROVED
DATE 6/23/20
PFS CORPORATION
Cottage Grove, WI

MISSOURI
PUBLIC SERVICE
COMMISSION
APPROVED
07/02/2020
MANUFACTURED
HOUSING

STATE OF MISSOURI
YURIANTO YURIANTO
NUMBER PE-2016009131
PROFESSIONAL ENGINEER
By Yuri at 4:20:06 PM, 6/11/2020
(Structural Aspects Only)

① POWER DISTRIBUTION SCHEMATIC
SCALE: 1/8" = 1'-0"

MODULAR STRUCTURAL CONSULTANTS LLC
9720 COIT RD. STE. 220-150
PLANO, LEE'S SUMMIT, MO 75025-5833
PHONE 972-986-5373
TX. REGISTRATION # F-15882

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LEE'S SUMMIT, MO 75115

No.	DESCRIPTION	BY	DATE

DATE:	6/9/2020
SCALE:	1/8" = 1'-0"
PLOT SCALE:	1:1
DRAWN BY:	NM
CHECKED BY:	

DRY CLASSROOM BUILDING
LEE'S SUMMIT, MO
POWER DISTRIBUTION SCHEMATIC
2464 DRY CLASSROOM
SERIAL #: 2279-2280
SHEET
E-2

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/25/2021

P:\PALOMAR\Drawings\2279-80 - Lees Summit\2464 DRY CLASSROOM 2.dwg, 6/11/2020 3:51:11 PM, NMiller

MIN WIRE SIZE		150 AMP SINGLE PHASE MAIN BREAKER				PANEL 'A'	MIN WIRE SIZE
12	LIGHTS: LEFT CLASSROOM	20	1	2	20	LIGHTS: RIGHT CLASSROOM	12
12	RECEPTS: LFET CLASSROOM, EXTERIOR	20	3	4	20	RECEPTS: RIGHT CLASSROOM, EXTERIOR	12
6	HVAC UNIT: LEFT CLASSROOM 3-TON / 10 kw	60 2P	5 7	6 8	60 2P	HVAC UNIT: RIGHT CLASSROOM 3-TON / 10 kw	6
			9	10	20	FIRE ALARM CONTROL PANEL	12
			11	12			
			13	14			
			15	16			
			17	18			
			19	20			
			21	22			
			23	24			
			25	26			
			27	28			
			29	30			
			31	32			
			33	34			
			35	36			
			37	38			
			39	40			
			41	42			

240 v

LOAD CALC:		150 AMP	
QTY ITEM		WATTS	TOTAL
12 LED Troffer	x	44	660 watts
0 Compact Fluorescent	x	26	0 watts
0 Fluorescent 17w 2 Lamp	x	31	0 watts
2 Ext. CFL Light	x	84	210 watts
0 Exhaust Fan 80 cfm	x	84	0 watts
0 Appliance circuit	x	1920	0 watts
14 Recept Duplex	x	180	2520 watts
0 Recept Dedicated	x	1920	0 watts
0 Recepts Computers Ckts.	x	1500	0 watts
0 Recepts Heat Tape	x	1800	0 watts
0 Water Heater (240v)	x	3000	0 watts
0 Water Cooler	x	370	0 watts
0 Res. Microwave	x	1350	0 watts
0 Res. Microwave	x	1350	0 watts
0 Emergency Light	x	14.4	0 watts
2 Emergency Light	x	14.4	29 watts
2 Exit Sign	x	2.8	7 watts
1 Alarm Panel	x	144	180 watts
2 Bard 3Ton / 10kw (240v)	x	13920	27840 watts
Air Handler 3 Ton / 10kw (240v)	x	12420	0 watts
	Total Watts:		31446
	Total Amps:		131.02

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NOTE:
WHERE LEFT OR RIGHT CLASSROOM IS CALLED OUT, THE CALLOUT IS AS VIEWED FROM THE EXTERIOR OF THE BUILDING STANDING AT THE EXTERIOR DOORS.

200

GROUND BAR

WIRE SIZE OF:
Service Conductors: 1/0
Service Ground: 6

NEUTRAL

TOTAL PANEL LOAD:
Total Watts: 31446 watts
Voltage: 240 v
Total Amps: 131.02 amps

Service Conduit Size for: AWG #3/0 Conductors - 2 Phase and 1 Neutral

IMC, RMC or PVC 1 1/2 Inch

PFS APPROVED
DATE 6/23/20
PFS CORPORATION
Cottage Grove, WI

STATE OF MISSOURI
YURIANTO YURIANTO
NUMBER PE-2016009131
PROFESSIONAL ENGINEER
By Yuri at 4:20:10 PM, 6/11/2020
(Structural Aspects Only)

YURI YURIANTO
MODULAR STRUCTURAL CONSULTANTS LLC
TX. REG. #: F-15892
9720 COIT RD. STE. 220-150
PLANO, TX. 75025-5833

PALOMAR
MODULAR BUILDINGS LLC

505 NORTH I-35 E
DESOTO, TX. 75115

No.	DESCRIPTION	BY	Date

DATE: 6/9/2020
SCALE: N.T.S.
PLOT SCALE: N.T.S.
DRAWN BY: NM
CHECK BY:

ELECTRICAL CALCULATIONS
2464 DRY CLASSROOM BLDG
LEE'S SUMMIT, MO
Dwg. No. 2464 Dry Classroom
PH: 2279-2260

SHEET No. E3

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
02/23/2021