

January 25, 2021

Mr. Thomas Campbell
Florida Department of Business and Professional Regulation
2601 Blair Stone Road, Building C
Tallahassee, Florida 32399-6563

**RE: Plan Approval
Coastal Potable Buildings
Plan # Gable Roof Urban-20**

Dear Mr. Campbell,

Pursuant to the requirements of the Department of Business & Professional Regulation, the above referenced documents have been reviewed for compliance with:

**2020 Florida Building Code, 7th Edition
2017 National Electrical Code (NFPA-70)
Florida Product Approval Rule 61G20-3.006 (FAC)**

All mandatory comments have been satisfied and plans are approved for construction by a currently approved modular building manufacturer.

These documents were reviewed for only what is to be constructed in the factory. Any work performed at the site, such as the foundation, is under the authority and jurisdiction of the local Building Official.

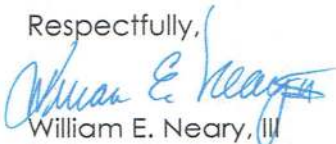
Third Party Agency approval in no way alleviates the builder/manufacturer from complying with all the applicable codes, which may or may not be identified in this review. Approval also does not preclude the local building official from requiring work be performed that was not previously reviewed, approved, and constructed under the State of Florida's Manufactured (Modular) Building Program to make the building, code compliant, for the intended use.

A signed and sealed set of plans are maintained on file with Top Line Engineering, LLC.

If you require my assistance in any way, please do not hesitate to contact me.

Thank you.

Respectfully,



William E. Neary, III
Business Partner
Top Line Engineering, LLC
BILL.TLE@yahoo.com

***** Please note: Any questions regarding local permitting should be directed to the Manufacturer. The Manufacturer's contact information can be found in the title block of the plans.**

1. Foundation details are not part of this plan set and are governed by local jurisdiction.
2. Buildings are approved for residential human storage only.
3. This building is exempt from the 100 cfm per person F101.4.2.4, ASCE 1.
4. Refer to the design details for proper installation requirements to meet code.
5. All windows for ventilation will be 20" x 24" except as noted.
6. Closures shall be site installed per the local authority having jurisdiction and permitting requirements.
7. All windows and doors to meet minimum requirements per the approved plans and the Florida Building Code.
8. In accordance with 1607.1003.1.2, Storage sheds that are not designed for human habitation that have a floor area of 250 square feet or less are not required to comply with the mandatory windborne debris impact standard of this code.
9. In accordance with FBC 1616.1.1, exception (10) Buildings that are 400 sq. ft. or less and that are intended for use in conjunction with one and two family residences are not subject to the door height and width requirements of this code. Structures 400 sq ft or more shall have an 80" minimum door.
10. In accordance with Florida Statute 553.80 (Add. New Storage Buildings and Storage Sheds) during the interim of approval of the department is not subject to 1616.4.1 (Florida Product approval) but shall meet the design and load requirements of ASCE 7-10 Edition.
11. All metal sheds can be bolt-down structural members or wall studs, trusses, chords, etc., to help secure these members, provided that the added bolt-down cost interfere with any of the existing provisions in the code.
12. As per FBC section 1616.1.1 exception (9) Storage sheds that are not designed for human habitation and that have a floor area of less than 720 square feet or less are required to comply with the mandatory wind borne debris impact standard of this code.
13. Components existing are in compliance with the 2000 FBC, 3rd Edition.
14. Sheds located in flood hazard areas must comply with the local flood zone regulations.
15. If a wall is braced for lateral loads that shall be approved by the AIA and shall comply with local requirements for permitting.
16. Windows and doors installed by the customer that shall be approved by the AIA and shall comply with local requirements for permitting.
17. AIAI comments for sheds require that installation per manufacturer's instructions.

Code: Florida Butchering Code 2020

Occupancy: _____

Occupancy: _____

Risk Category & Importance Factors:

Risk Category	Category I: Buildings and other structures that represented a low hazard to human health.
----------------------	---

Wind factor =	1.00	use 0.60 NOTE: Output will be nominal wind pressures
Snow factor =	0.80	
Seismic factor =	1.00	

Type of Construction:

Fire Rating:

Roof =	0.0 hr
Floor =	0.0 hr

Building Geometry:

Roof angle (θ)	5.00 / 12	22.6 deg
Building length	20.0 ft	
Least width	12.0 ft	
Mean Roof Ht. (h)	10.0 ft	

Wind Loads : ASCE 7 - 16

Ultimate Wind Speed[®] 170 mph

Nominal Wind Speed 131.7 mph

Risk Category	1
Exposure Category	2

Exposure Category	B
Enclosure Classif.	Enclosed Building

Internal pressure	+/-0.18
-------------------	---------

Directionality (Kd)	0.85
---------------------	------

Kh	case 1	0.701
Kh	case 2	0.575

Roof case	6.513
Type of roof	Gable

Type of tool	Online
1. <i>Computer-aided design</i>	
2. <i>Computer-aided manufacturing</i>	
3. <i>Computer-aided engineering</i>	
4. <i>Computer-aided testing</i>	
5. <i>Computer-aided simulation</i>	
6. <i>Computer-aided assembly</i>	
7. <i>Computer-aided inspection</i>	
8. <i>Computer-aided maintenance</i>	
9. <i>Computer-aided logistics</i>	
10. <i>Computer-aided scheduling</i>	
11. <i>Computer-aided training</i>	
12. <i>Computer-aided documentation</i>	
13. <i>Computer-aided communication</i>	
14. <i>Computer-aided security</i>	
15. <i>Computer-aided safety</i>	
16. <i>Computer-aided ergonomics</i>	
17. <i>Computer-aided environmental control</i>	
18. <i>Computer-aided energy management</i>	
19. <i>Computer-aided waste management</i>	
20. <i>Computer-aided water management</i>	
21. <i>Computer-aided air management</i>	
22. <i>Computer-aided noise management</i>	
23. <i>Computer-aided vibration management</i>	
24. <i>Computer-aided thermal management</i>	
25. <i>Computer-aided lighting management</i>	
26. <i>Computer-aided sound management</i>	
27. <i>Computer-aided smell management</i>	
28. <i>Computer-aided taste management</i>	
29. <i>Computer-aided touch management</i>	
30. <i>Computer-aided pressure management</i>	
31. <i>Computer-aided force management</i>	
32. <i>Computer-aided torque management</i>	
33. <i>Computer-aided power management</i>	
34. <i>Computer-aided energy management</i>	
35. <i>Computer-aided waste management</i>	
36. <i>Computer-aided water management</i>	
37. <i>Computer-aided air management</i>	
38. <i>Computer-aided noise management</i>	
39. <i>Computer-aided vibration management</i>	
40. <i>Computer-aided thermal management</i>	
41. <i>Computer-aided lighting management</i>	
42. <i>Computer-aided sound management</i>	
43. <i>Computer-aided smell management</i>	
44. <i>Computer-aided taste management</i>	
45. <i>Computer-aided touch management</i>	
46. <i>Computer-aided pressure management</i>	
47. <i>Computer-aided force management</i>	
48. <i>Computer-aided torque management</i>	
49. <i>Computer-aided power management</i>	
50. <i>Computer-aided energy management</i>	
51. <i>Computer-aided waste management</i>	
52. <i>Computer-aided water management</i>	
53. <i>Computer-aided air management</i>	
54. <i>Computer-aided noise management</i>	
55. <i>Computer-aided vibration management</i>	
56. <i>Computer-aided thermal management</i>	
57. <i>Computer-aided lighting management</i>	
58. <i>Computer-aided sound management</i>	
59. <i>Computer-aided smell management</i>	
60. <i>Computer-aided taste management</i>	
61. <i>Computer-aided touch management</i>	
62. <i>Computer-aided pressure management</i>	
63. <i>Computer-aided force management</i>	
64. <i>Computer-aided torque management</i>	
65. <i>Computer-aided power management</i>	
66. <i>Computer-aided energy management</i>	
67. <i>Computer-aided waste management</i>	
68. <i>Computer-aided water management</i>	
69. <i>Computer-aided air management</i>	
70. <i>Computer-aided noise management</i>	
71. <i>Computer-aided vibration management</i>	
72. <i>Computer-aided thermal management</i>	
73. <i>Computer-aided lighting management</i>	
74. <i>Computer-aided sound management</i>	
75. <i>Computer-aided smell management</i>	
76. <i>Computer-aided taste management</i>	
77. <i>Computer-aided touch management</i>	
78. <i>Computer-aided pressure management</i>	
79. <i>Computer-aided force management</i>	
80. <i>Computer-aided torque management</i>	
81. <i>Computer-aided power management</i>	
82. <i>Computer-aided energy management</i>	
83. <i>Computer-aided waste management</i>	
84. <i>Computer-aided water management</i>	
85. <i>Computer-aided air management</i>	
86. <i>Computer-aided noise management</i>	
87. <i>Computer-aided vibration management</i>	
88. <i>Computer-aided thermal management</i>	
89. <i>Computer-aided lighting management</i>	
90. <i>Computer-aided sound management</i>	
91. <i>Computer-aided smell management</i>	
92. <i>Computer-aided taste management</i>	
93. <i>Computer-aided touch management</i>	
94. <i>Computer-aided pressure management</i>	
95. <i>Computer-aided force management</i>	
96. <i>Computer-aided torque management</i>	
97. <i>Computer-aided power management</i>	
98. <i>Computer-aided energy management</i>	
99. <i>Computer-aided waste management</i>	
100. <i>Computer-aided water management</i>	
101. <i>Computer-aided air management</i>	
102. <i>Computer-aided noise management</i>	
103. <i>Computer-aided vibration management</i>	
104. <i>Computer-aided thermal management</i>	
105. <i>Computer-aided lighting management</i>	
106. <i>Computer-aided sound management</i>	
107. <i>Computer-aided smell management</i>	
108. <i>Computer-aided taste management</i>	
109. <i>Computer-aided touch management</i>	
110. <i>Computer-aided pressure management</i>	
111. <i>Computer-aided force management</i>	
112. <i>Computer-aided torque management</i>	
113. <i>Computer-aided power management</i>	
114. <i>Computer-aided energy management</i>	
115. <i>Computer-aided waste management</i>	
116. <i>Computer-aided water management</i>	
117. <i>Computer-aided air management</i>	
118. <i>Computer-aided noise management</i>	
119. <i>Computer-aided vibration management</i>	
120. <i>Computer-aided thermal management</i>	
121. <i>Computer-aided lighting management</i>	
122. <i>Computer-aided sound management</i>	
123. <i>Computer-aided smell management</i>	
124. <i>Computer-aided taste management</i>	
125. <i>Computer-aided touch management</i>	
126. <i>Computer-aided pressure management</i>	
127. <i>Computer-aided force management</i>	

regarding local permitting should be

*** Please note: Any questions regarding local permitting should be directed to the Manufacturer. The Manufacturer's contact information can be found in the title block of the plans.



2004, 2005

QUESTIONS

1. RECOMMENDED PLANTS FOR PLOTS OF THE FOLLOWING ARE: AND COVERED PLANTS
2. PLANTS
3. PLANTS
4. PLANTS
5. PLANTS
6. PLANTS
7. PLANTS
8. PLANTS
9. PLANTS
10. PLANTS
11. PLANTS
12. PLANTS
13. PLANTS
14. PLANTS
15. PLANTS
16. PLANTS
17. PLANTS
18. PLANTS
19. PLANTS
20. PLANTS
21. PLANTS
22. PLANTS
23. PLANTS
24. PLANTS
25. PLANTS
26. PLANTS
27. PLANTS
28. PLANTS
29. PLANTS
30. PLANTS
31. PLANTS
32. PLANTS
33. PLANTS
34. PLANTS
35. PLANTS
36. PLANTS
37. PLANTS
38. PLANTS
39. PLANTS
40. PLANTS
41. PLANTS
42. PLANTS
43. PLANTS
44. PLANTS
45. PLANTS
46. PLANTS
47. PLANTS
48. PLANTS
49. PLANTS
50. PLANTS
51. PLANTS
52. PLANTS
53. PLANTS
54. PLANTS
55. PLANTS
56. PLANTS
57. PLANTS
58. PLANTS
59. PLANTS
60. PLANTS
61. PLANTS
62. PLANTS
63. PLANTS
64. PLANTS
65. PLANTS
66. PLANTS
67. PLANTS
68. PLANTS
69. PLANTS
70. PLANTS
71. PLANTS
72. PLANTS
73. PLANTS
74. PLANTS
75. PLANTS
76. PLANTS
77. PLANTS
78. PLANTS
79. PLANTS
80. PLANTS
81. PLANTS
82. PLANTS
83. PLANTS
84. PLANTS
85. PLANTS
86. PLANTS
87. PLANTS
88. PLANTS
89. PLANTS
90. PLANTS
91. PLANTS
92. PLANTS
93. PLANTS
94. PLANTS
95. PLANTS
96. PLANTS
97. PLANTS
98. PLANTS
99. PLANTS
100. PLANTS

★A.D.

- [illegible]



RISK CATEGORY 1



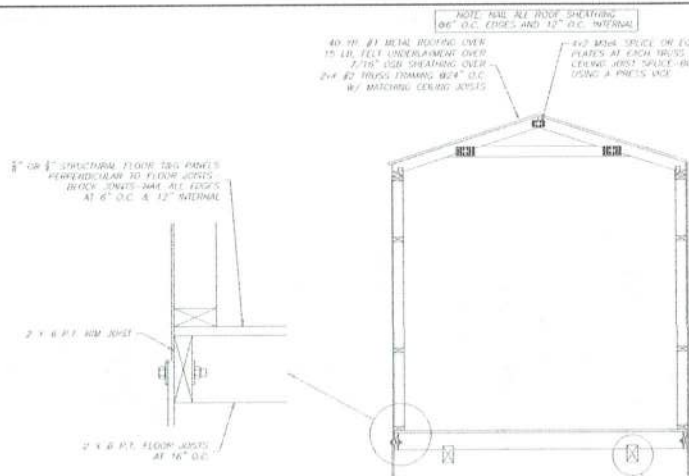
TLE THE LITTLE ENGLISH LITERATURE
William E. Neary, III
SMP '51, SMP '79, ICC '18/SD40
10645 Oakview Pointe Terrace
Gotha, Florida 32734



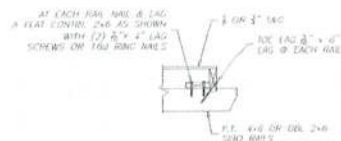
Austin R. Ace, P.E., Inc.

COASTAL PORTABLE BLDGS., INC.

姓名: 学号: 院系:	
姓名: 学号: 院系:	姓名: 学号: 院系:
姓名: 学号: 院系:	姓名: 学号: 院系:
姓名: 学号: 院系:	姓名: 学号: 院系:
姓名: 学号: 院系:	姓名: 学号: 院系:
姓名: 学号: 院系:	姓名: 学号: 院系:
姓名: 学号: 院系:	姓名: 学号: 院系:
姓名: 学号: 院系:	姓名: 学号: 院系:
姓名: 学号: 院系:	姓名: 学号: 院系:



FRONT ELEVATION
SCALE: 3/4" = 1'-0"

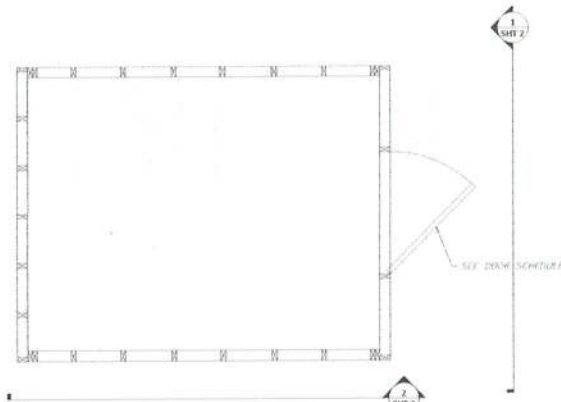


FRONT/BACK STIFFENER BOARD
SCALE: 1" = 1'-0"

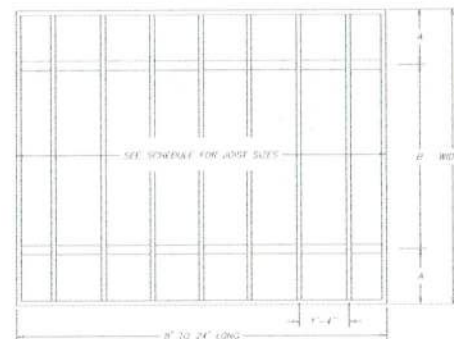


SKID LAYOUT AND FLOOR FRAMING SCHEDULE

125 PSF LIVE + 10 DEAD LOAD (2 SKIDS)			
WIDTH	JOIST SIZE & SPACING	A	B
8'-0"	2 X 6 @ 16" O.C. MAX.	18"	60"
10'-0"	2 X 6 @ 16" O.C. MAX.	30"	60"

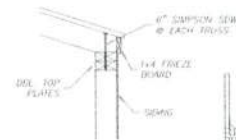


FLOOR PLAN VIEW
SCALE: 3/4" = 1'-0"



FLOOR JOIST AND SKID LAYOUT
SCALE: 1/4" = 1'-0"

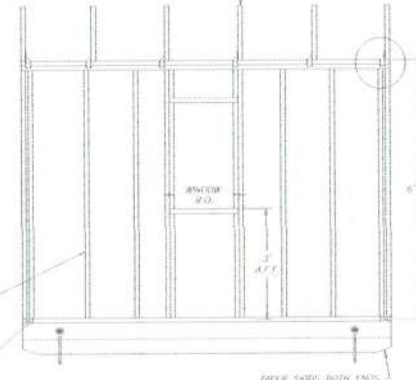
ALTERNATIVE TRUSS FASTEN



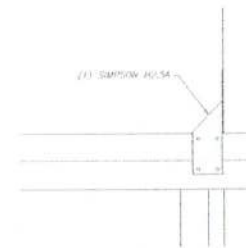
1/2" SHIRT SIZE STRUCTURAL SEWB
FROM DOE PLTS. TO 4" OR RM JOIST
-NAIL 6" O.C. LAP JOISTS STAGGERED
AND 12" O.C. INTERNAL

ALL 2x4 SIPS BILE SIPS
@ 16" O.C. - DBL @ CORNERS
AND AT 1/2" SIPS

2x4 SOLE PLATES



SIDE WALL ELEVATION
SCALE: 3/4" = 1'-0"



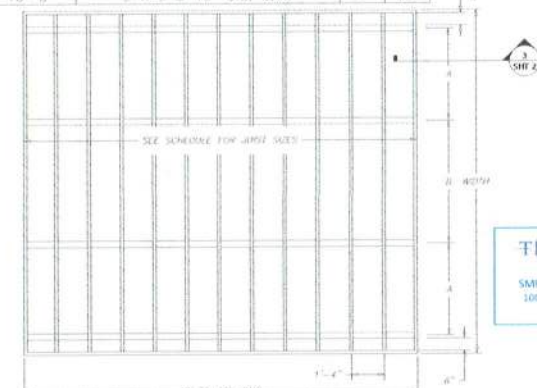
SEE ALTERNATIVE TRUSS FASTEN

DOOR/WINDOW SCHEDULE (ANY WALL)

SIZE	TYPE	STYLE	SOURCE
2' - 3'	DOOR	DOUBLE BARN STYLE	COASTAL PORTABLE
4'	DOOR	SINGLE BARN STYLE	COASTAL PORTABLE
5'	DOOR	PRE-HUNG	JELDWEN
6'	DOOR	PRE-HUNG FRENCH STYLE	FL14569.4-R11/STEVE'S & SONS FL17901-R1
6' - 10'	DOOR	ROLL-UP	JANUS INTERNATIONAL GROUP FL21450-P5/P6
24" x 36" OR 36" x 36"	WINDOW	SINGLE PANE	JELDWEN
10" x 23", 29", 36", 72"	TRANSOM WINDOW	DOUBLE PANE	FL14569.4-R11/APPLE FASTENERS FL21990

SKID LAYOUT AND FLOOR FRAMING SCHEDULE

125 PSF LIVE + 10 DEAD LOAD (4 SKIDS)			
WIDTH	JOIST SIZE & SPACING	A	B
12'-0"	2 X 6 @ 16" O.C. MAX.	33"	60"
14'-0"	2 X 6 @ 16" O.C. MAX.	45"	60"
16'-0"	2 X 6 @ 16" O.C. MAX.	57"	60"



FLOOR JOIST AND SKID LAYOUT
SCALE: 1/2" = 1'-0"

TLE ENGINEERING, LLC
NEW YORK, NY
William E. Avery, III
SMP-51, SM-79, ICC-5185040
10649 Oakview Pointe Terrace
Gotha, Florida 34714



COASTAL PORTABLE BUILDINGS

11818 SE 21ST AVENUE
SUITE 100, FORT LAUDERDALE, FL 33316
RESIDENTIAL LAMINATE STRUCTURE SHEET-DOUBLE
DETAILS & ELEVATION SHEETS

Austin R. Ace, P.E., Inc.

5000 Grandview Road, Suite 100
Fort Lauderdale, FL 33311
Phone: 954.554.0000, Fax: 954.554.0001
www.austinr.ace.com

DATE: 1 JANUARY 2021
DESIGNED BY: WEA
CHECKED BY: WEA
SCALE: AS SHOWN
DRAWN BY: P. ACE
DATE: 10
CHECKED BY: P. ACE
DATE: 10
SHEET: 2 OF 2
LAD FILE LOCATION: 10649 OAKVIEW POINTE TERRACE
GOTHA, FL 34714
DWG NO: S-2-0

FASTENER SCHEDULE (r) (FBC TABLE 2304.10.1)

1. JOIST TO SILL OR GIRDER	3-8d COMMON (2 1/2" x 0.131") 3-3" 14 GAGE STAPLES	TOENAIL
2. BRIDGING TO JOIST	2-8d COMMON (2 1/2" x 0.131") 2-3" x 0.232" NAILS 2-3" 14 GAGE STAPLES	TOENAIL EACH END
3. 1" x 8" SUBFLOOR OR LESS TO EACH JOIST	2-8d COMMON (2 1/2" x 0.131")	FACE NAIL
4. WIDER THAN 1" x 8" SUBFLOOR TO EACH JOIST	3-8d COMMON (2 1/2" x 0.131")	FACE NAIL
5. 2" SUBFLOOR TO JOIST OR GIRDER	2-16d COMMON (3.5" x 0.162")	BLIND AND FACE NAIL
6. SOLE PLATE TO JOIST OR BLOCKING SOLE PLATE TO JOIST AT BLOCKING AT BRACED WALL PANEL	16d COMMON (3.5" x 0.162") 3" x 0.131 NAILS AT 8" O.C. 3" 14 GAGE STAPLES AT 12" O.C. 3-16d COMMON (3 1/2" x 0.135") AT 16" O.C. 4-3" x 0-131 MAO S AT 16 P/G 4-3" 14 GAGE STAPLES AT 16" O.C.	TYPICAL FACE NAIL BRACED WALL PANEL
7. TOP PLATE TO STUD	2-16d COMMON (3.5" x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL
8. STUD TO SOLE PLATE	4-8d COMMON (2 1/2" x 0.131") 4-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES 2-16d COMMON (3.5" x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL END NAIL
9. DOUBLE STUDS	16d COMMON (3.5" x 0.162") AT 24" O.C. 3" x 0.131" NAILS 3" 14 GAGE STAPLES	FACE NAIL
10. DOUBLE TOP PLATES	16d COMMON (3.5" x 0.162") AT 16" O.C. 3" x 0.131" NAILS AT 8" O.C. 3" 14 GAGE STAPLES AT 8" O.C.	TYPICAL FACE NAIL
DOUBLE TOP PLATES	8-16d COMMON (3 1/2" x 0.162") 12-3" x 0.131" NAILS 12-3" 14 GAGE STAPLES	LAP SPLICE
11. BLOCKING BETWEEN JOIST OR RAFTERS TO TOP PLATE	3-8d COMMON (2 1/2" x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL
12. RIM JOIST TO TOP PLATE	8d (2 1/2" x 0.131") AT 8" O.C. 3" x 0.131 NAILS AT 8" O.C. 3" 14 GAGE STAPLES AT 8" O.C.	TOENAIL
13. TOP PLATES, LAPS AND INTERSECTIONS	2-16d COMMON (3.5" x 0.162") AT 16" O.C. 3-3" x 0.131" NAILS AT 8" O.C. 3-3" 14 GAGE STAPLES AT 8" O.C.	TOENAIL
14. CONTINUOUS HEADER, TWO PIECES	16d COMMON (3.5" x 0.162") AT 24" O.C.	16" O.C. ALONG EDGE
15. CEILING JOISTS TO PLATE	3-8d COMMON (2 1/2" x 0.131") 5-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL
16. CONTINUOUS HEADER TO STUD	4-8d COMMON (2 1/2" x 0.131") 4-8d COMMON (2 1/2" x 0.131") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	TOENAIL FACENAIL
17. CEILING JOISTS, LAPS OVER PARTITIONS (SEE TABLE 2306.10.4.1)	3-16d COMMON (3 1/2" x 0.162") MINIMUM, TABLE 2306.10.4.1 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACENAIL
18. CEILING JOIST TO PARALLEL RAFTERS (SEE TABLE 2306.10.4.1)	3-8d COMMON (2 1/2" x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL
19. RAFTER TO PLATE	3-8d COMMON (2 1/2" x 0.131") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL
20. 1" DIAGONAL BRACE TO EACH STUD AND PLATE	3-8d COMMON (2 1/2" x 0.131") 2-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	FACE NAIL
21. 1" x 8" SHEATHING TO EACH BEARING	3-8d COMMON (2 1/2" x 0.131") 3-8d COMMON (2 1/2" x 0.131")	FACE NAIL FACE NAIL
22. WIDER THAN 1" x 8" SHEATHING TO EACH BEARING	16d COMMON (3 1/2" x 0.162") 3" x 0.131" NAILS 3" 14 GAGE STAPLES	24" O.C. 18" O.C. 18" O.C.
23. BUILT-UP CORNER STUDS	2-8d COMMON (2 1/2" x 0.131") AT 32" O.C. 3" x 0.131" NAILS AT 24" O.C. 3" 14 GAGE STAPLES AT 24" O.C.	FACE NAIL AT TOP AND BOTTOM STAGGERED ON OPPOSITE SIDES
24. BUILT-UP GIRDER AND BEAMS	2-20d COMMON (4" x 0.182") AT 32" O.C. 3-3" x 0.131" NAILS AT 24" O.C. 3-3" 14 GAGE STAPLES AT 24" O.C.	FACE NAIL AT ENDS AND AT EACH SPLICE
25. 2" PLANKS	16d COMMON (3 1/2" x 0.162") 3-10d COMMON (3" x 0.148") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	AT EACH BEARING
26. COLLAR TIE TO RAFTER	3-10d COMMON (3" x 0.148") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
27. JACK RAFTER TO HIP	3-10d COMMON (3" x 0.148") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	TOENAIL
28. ROOF RAFTER TO 2-BY RIDGE BEAM	2-16d COMMON (3 1/2" x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES 2-16d COMMON (3 1/2" x 0.162") 3-3" x 0.131" NAILS 3-3" 14 GAGE STAPLES	TOENAIL FACE NAIL
29. JOIST TO BAND JOIST	3-16d COMMON (3 1/2" x 0.162") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL
30. LEDGER STRIP	3-16d COMMON (3 1/2" x 0.162") 4-3" x 0.131" NAILS 4-3" 14 GAGE STAPLES	FACE NAIL AT EACH JOINT
31. WOOD STRUCTURAL PANELS AND PARTICLEBOARD (b) SUBFLOOR, ROOF AND WALL SHEATHING (TO FRAMING)	1/2" AND LESS 19/32" TO 3/4"	6d (c.i.g) 2 3/8" x 0.113" NAIL(h) 1 3/4" 16 GAGE (b) 4d(d) OR 6d(a) 2 3/8" x 0.113" NAIL(p) 2" 18 GAGE(p) 8d(c) 10d(d) OR 8d(d)
SINGLE FLOOR (COMBINATION SUBFLOOR-UNDERLAYMENT TO FRAMING)	7/8" TO 1" 1 1/8" TO 1 1/4"	6" O.C. EDGES AND INTERMEDIATE, 4" O.C. AT COMPONENT AND CLADDING EDGE STRIP # ZONE 3 (REFER TO FIGURE 30.5.1 OF ASCE-7)
32. PANEL SIDING (TO FRAMING) (q)	1/2" AND LESS 1 1/8" TO 1 1/4"	6d(c) 8d(c) 10d(d) OR 8d(d)
33. FIBERBOARD SHEATHING (g,q)	1/2" AND LESS 25/32"	NO. 11 GAGE ROOFING NAIL(h) 6d COMMON NAIL (2" x 0.113") NO. 16 GAGE STAPLE(i) NO. 11 GAGE ROOFING NAIL(h) 8d COMMON NAIL (2 1/2" x 0.131") NO. 16 GAGE STAPLE(i)
34. INTERIOR PANELING	1/4" 3/8"	4d(j) 6d(k)

- a. Common or box nails are permitted to be used except where otherwise stated.
b. Nails spaced at 8" on center at edges, 12 inches at intermediate supports except 6 inches at supports where spans are 48 inches or more. For nailing of wood structural panel and particleboard diaphragms and shear walls, refer to Section 2305. Nails for wall sheathing are permitted to be common, box or casing.
c. Common or deformed shank (8d-2" x 0.113", 8d-2 1/2" x 0.131", 10d-3" x 0.148").
d. Common (8d-2" x 0.113", 10d-3" x 0.148").
e. Deformed shank (8d-2" x 0.113", 8d-2 1/2" x 0.131", 10d-3" x 0.148").
f. Corrosion-resistant siding (8d-1 7/8" x 0.106", 8d-2 3/8" x 0.128") or casing (8d-2" x 0.089", 8d-2 1/2" x 0.113") nail.
g. Fasteners spaced 3 inches on center at exterior edges and 6 inches on center at intermediate supports, when used as structural sheathing. Spacing shall be 6 inches on center on the edges and 12" inches on center at intermediate supports for nonstructural sheathing.
h. Corrosion-resistant roofing nails with 7/16 inch diameter head and 1 1/2 inch length for 1/2 inch sheathing and 1 3/4 inch length for 25/32 inch sheathing.
i. Corrosion-resistant staples with nominal 7/16 inch crown or 1 inch crown and 1 1/4 inch length for 1/2 inch sheathing and 1 1/2 inch length for 25/32 inch sheathing panel supports at 16 inches (20 inches if strength axis in the long direction of the panel, unless otherwise marked).
j. Casing (1 1/2" x 0.089") or finish (1 1/2" x 0.072") nails spaced at 8 inches on panel edges, 12 inches at intermediate supports.
k. Panel supports at 24 inches, casing or finish nails spaced at 6 inches on panel edges, 12 inches at intermediate supports.
l. For roof sheathing applications, 8d nails (2 1/2" x 0.113") are the minimum required for wood structural panels.
m. Staples shall have a minimum crown width of 7/16".
n. For roof sheathing applications, fasteners spaced at 4 inches on center at edges, 6 inches at intermediate supports.
o. Fasteners spaced at 4 inches on center at edges, 6 inches at intermediate supports for subfloor and wall sheathing and 3 inches on center at edges, 6 inches at intermediate supports for roof sheathing.
p. Fasteners spaced at 4 inches on center at edges, 6 inches at intermediate supports.
q. See fastener alternate schedule.
r. Fasteners must be installed with even spacing between them across attaching member.

2021-01-25 TOP LINE ENGINEERING APPROVAL PLAN # Gable Roof Urban-20 ** NOT VHZ APPROVED

FILED
William E. Henry, III
State Seal, State of Florida
Professional Engineer
10049 Corporate Square, Suite 100
Orlando, Florida 32817



COASTAL PORTABLE BLDGS., INC.
11515 SE 21ST AVENUE
STANLEY, FLORIDA 33177
GENERAL GUIDELINES
FASTENERS & NAILING PAGE 1

Austin R. Ace, P.E., Inc.

1828 Orchard Pond Drive
Pawling Island, Florida 32060
Florida License 32454, Georgia License 17180
804-716-3821

1	2	3	4	5	6	7	8	9	10	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	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

STRAP & FASTENER SCHEDULE (a)					
	PART/DESC.	UPLIFT	WALL FASTENER	RAFTER FASTENER	PLATE FASTENER
RAFTER	H1	435	-	6-SD9x1.5"	4-SD9x1.5"
	H112	750	-	6-SD9x1.5"	6-SD10x1.5"
	H2A	495	5-SD9x1.5"	5-SD9x1.5"	2-SD9x1.5"
	H2.5A	540	-	5-SD9x1.5"	5-SD9x1.5"
	H2.5	410	5-SD9x1.5"	5-SD9x1.5"	-
	H2.5I	545	5-SD9x1.5"	5-SD9x1.5"	-
	H2A	495	7-SD9x1.5"	5-SD9x1.5"	-
	H3	320	4-SD9x1.5"	4-SD9x1.5"	-
	H4	280	4-SD9x1.5"	4-SD9x1.5"	-
	H5	415	4-SD9x1.5"	4-SD9x1.5"	-
	LTS-12	895	6-SD9x1.5"	6-SD9x1.5"	-
	LTS-16	1075	6-SD9x1.5"	6-SD9x1.5"	-
	LTS-18	1235	6-SD9x1.5"	6-SD9x1.5"	-
	LTS-20	1215	6-SD9x1.5"	6-SD9x1.5"	-
	MTS-12	895	7-SD9x1.5"	7-SD9x1.5"	-
	MTS-16	1075	7-SD9x1.5"	7-SD9x1.5"	-
	MTS-18	1255	7-SD9x1.5"	7-SD9x1.5"	-
	MTS-20	1255	7-SD9x1.5"	7-SD9x1.5"	-
	PART/DESC.	UPLIFT	COL. FASTENER	RAFTER FASTENER	
PORCH	A21	245	2-10d x 1.5"	2-10d x 1.5"	
	A23	585	4-10d x 1.5"	4-10d x 1.5"	
	A33	750	4-10d	4-10d	
	PART/DESC.	UPLIFT	COL. FASTENER	RAFTER FASTENER	
WALL TO FLOOR (c)	LSTA-18	1110	7-10d	7-10d	
	PART/DESC.	UPLIFT	STUD FASTENER	HEADER FASTENER	
HEADER (d)	TP-35	1110	5-3"x0.131"	5-3"x0.131"	
	HP40, 41, 80, 81	4725	5-3"x0.131"	5-3"x0.131"	

- a. All straps can be substituted with an equivalent brand meeting same strengths.
b. Rafter ties to stud wall to be at every connection for 24" o.c. & can be every other for 16" o.c., but is required on corners and studs adjacent to corners.
c. Only need on aluminum & vinyl sheathing walls.
d. Headers over 6' span.

STRAP & SIMPSON STRONG-DRIVE SD SCREW SCHEDULE					
	PART/DESC.	UPLIFT	WALL FASTENER	RAFTER FASTENER	PLATE FASTENER
RAFTER	H1	435	-	6-SD9x1.5"	4-SD9x1.5"
	H112	750	-	6-SD9x1.5"	6-SD10x1.5"
	H2A	495	5-SD9x1.5"	5-SD9x1.5"	2-SD9x1.5"
	H2.5A	540	-	5-SD9x1.5"	5-SD9x1.5"
	H2.5	410	5-SD9x1.5"	5-SD9x1.5"	-
	H2.5I	545	5-SD9x1.5"	5-SD9x1.5"	-
	H2A	495	7-SD9x1.5"	5-SD9x1.5"	-
	H3	320	4-SD9x1.5"	4-SD9x1.5"	-
	H4	280	4-SD9x1.5"	4-SD9x1.5"	-
	H5	415	4-SD9x1.5"	4-SD9x1.5"	-
	LTS-12	895	6-SD9x1.5"	6-SD9x1.5"	-
	LTS-16	1075	6-SD9x1.5"	6-SD9x1.5"	-
	LTS-18	1235	6-SD9x1.5"	6-SD9x1.5"	-
	LTS-20	1215	6-SD9x1.5"	6-SD9x1.5"	-
	MTS-12	895	7-SD9x1.5"	7-SD9x1.5"	-
	MTS-16	1075	7-SD9x1.5"	7-SD9x1.5"	-
	MTS-18	1255	7-SD9x1.5"	7-SD9x1.5"	-
	MTS-20	1255	7-SD9x1.5"	7-SD9x1.5"	-

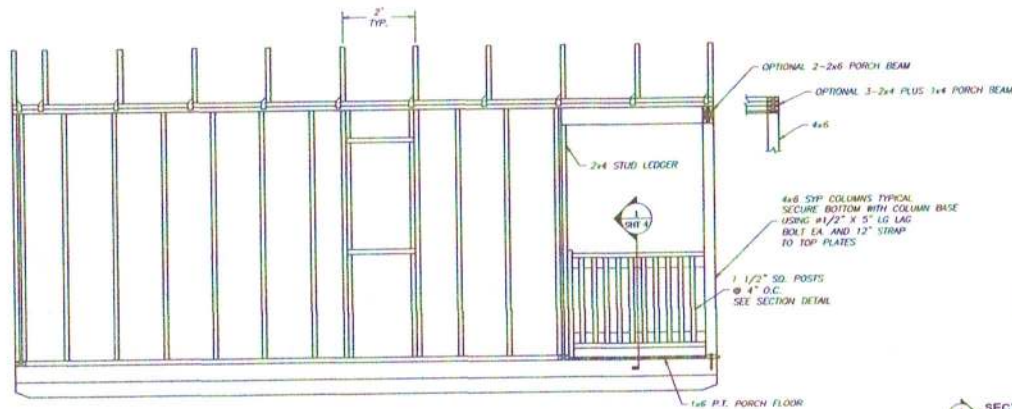
TLE TOP LINE ENGINEERING, LLC
William F. Neary, III
SMP-51, SM-79, ICC-5185MD
10049 Oakview Pointe Terrace
Gotha, Florida 32734



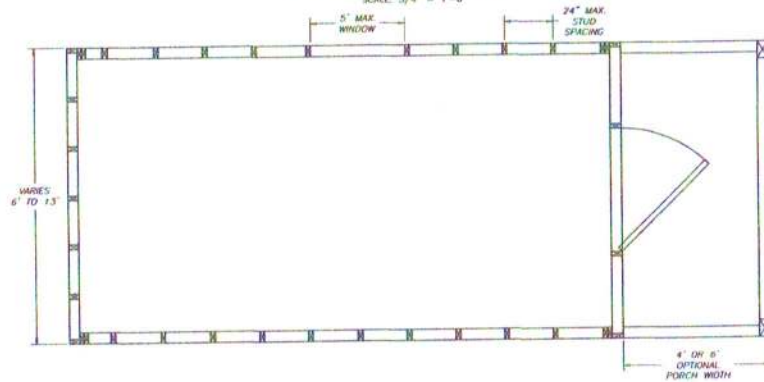
Austin R. Ace, P.E., Inc.
888 Oakview Pointe Drive
Gotha, Florida 32734
Phone: 407.444.1144
Fax: 407.444.1145
Email: info@aracepe.com

COASTAL PORTABLE BLDGS., INC.
11515 SE 21ST AVENUE
SUITE 200
FORT LAUDERDALE, FL 33325
(954) 344-1111

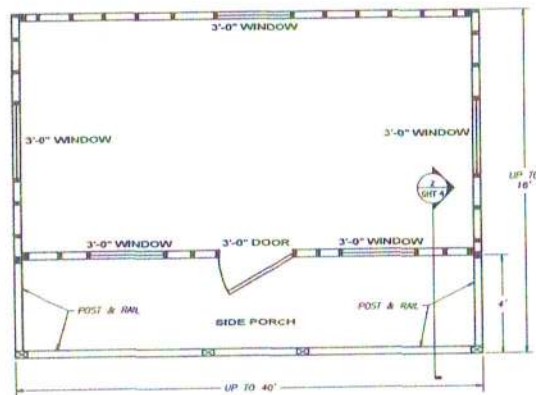
DATE: 9-10-2020
DRAWN BY: J. SHOWN
CHECKED BY: J. SHOWN
APP. BY: R. ACE
SHEET: 4 OF 6
PROJECT: 2020-01-25 TOP LINE ENGINEERING APPROVAL PLAN # Gable Roof Urban-20 *** NOT HVHZ APPROVED



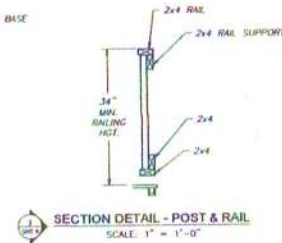
SIDE WALL ELEVATION WITH PORCH
SCALE: 3/4" = 1'-0"



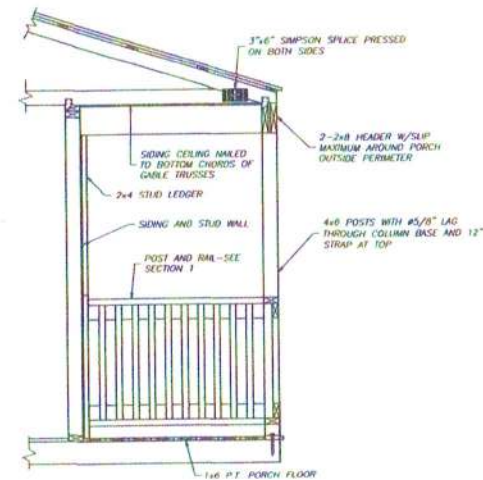
STUD WALL PLAN VIEW SECTION WITH PORCH
SCALE: 3/4" = 1'-0"



STUD WALL PLAN VIEW SECTION WITH SIDE PORCH
SCALE: 1/2" = 1'-0"



SECTION DETAIL - POST & RAIL
SCALE: 1" = 1'-0"



SECTION DETAIL - SIDE PORCH OPTION
SCALE: 1" = 1'-0"

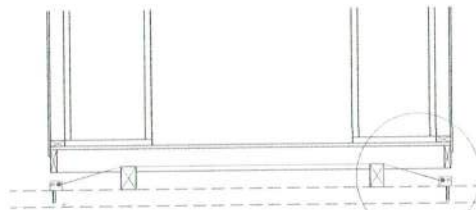
TLE
TERRY L. ENGINEERING, LLC
10649 Oakview Pkwy, Torrance
CA 90504
310.571.1111
www.tle-engineering.com



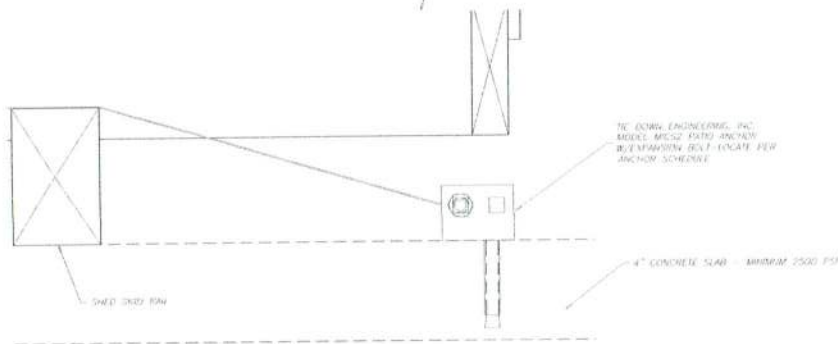
Austin R. Ace, P.E., Inc.
11818 SE 21ST AVENUE
STARKES, FLORIDA 32091
RESIDENTIAL, LAWN, STORAGE, SHED
PORCH, OPTIONS

COASTAL PORTABLE BLDGS., INC.
11818 SE 21ST AVENUE
STARKES, FLORIDA 32091
RESIDENTIAL, LAWN, STORAGE, SHED
PORCH, OPTIONS

DATE	3 JANUARY 2021
UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN INCHES	
SCALE	AS SHOWN
OWN	ARA
CHK	DD
ENG	A. R. ACE
APP	TLE
SHEET	2 OF 5
CAD FILE LOCATION	10649 OAKVIEW PKWY TORRANCE CA 90504
ENG. NO.	S - 5 - 0



1 SHED INSTALLED ON SLAB
Scale: 1" = 4'-0"

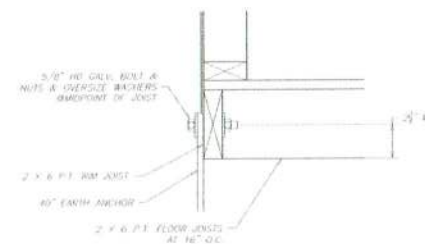


Type of Material Used

Description	Model No.	Part Description	Type of Steel
Detached Steel Patio Slab Anchor	MTE	Head	AISI C1008
	MTE	ASTM A36-MOD	
1-Rod Patio Slab Anchor - Painted	MTE	Head	AISI C1008
	MTE	3/8" Diameter Shaft	ASTM A36-MOD
1-Rod Patio Slab Anchor - Galvanized	MTE	Head	AISI C1008
	MTE	3/8" Diameter Shaft	ASTM A36-MOD
Patio Slab Anchor W/Expansion Bolt	MCS2	Head	AISI C1008
	MCS2	1/2" x 3 1/2" Bolt	AISI C1008

CONCRETE ANCHOR DATA

MODEL NUMBER	LENGTH	BOLT DIAMETER	UPLIFT CAPACITY IN 2.5 KSI
MCS2	6'-3 1/2"	500 INCHES	2200 LBS.



BUILDING ANCHOR DATA

MODEL NUMBER	LENGTH	BAR DIAMETER	EYE DIAMETER	HELIX DIAMETER	UPLIFT CAPACITY IN NORMAL SOIL
MTE40B	3'-4"	.625 INCH	1.5 INCHES	4 INCHES	4500 LBF. U/LT.

BUILDING ANCHOR SCHEDULE - ALL SHEDS

BUILDING SIZE 8'-16" WIDE	NO. ANCH. @ EA. SIDE OF BLDG.	TOTAL ANCH. PER BLDG.
10'-12" LONG	2	4
16'-20" LONG	2	4
24'-28" LONG	3	6
30'-32" LONG	4	8
40' LONG	5	10

T.E. CORN ENGINEERING, INC.
William F. Reary, III
SMP 51, SM 79, REC 5183040
10649 Oakview Forest Terrace
Gotha, Florida 32734



COASTAL PORTABLE BLDGS., INC.

DATE: 1 JANUARY 2021
DESIGN: WFR
NOTED: ALL DIMS. SHALL BE IN INCHES.

SCALE: AS SHOWN

DRAWN: WFR

CHECKED: WFR

DATE: 1/1/21

PROJECT: T.E. CORN

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

DATE: 1/1/21

PROJECT: T.E. CORN

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

DATE: 1/1/21

PROJECT: T.E. CORN

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

DATE: 1/1/21

PROJECT: T.E. CORN

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

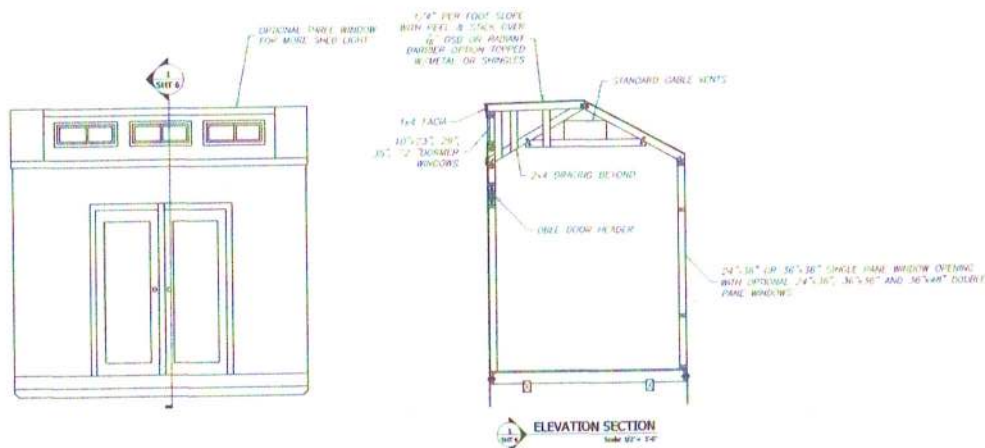
DATE: 1/1/21

PROJECT: T.E. CORN

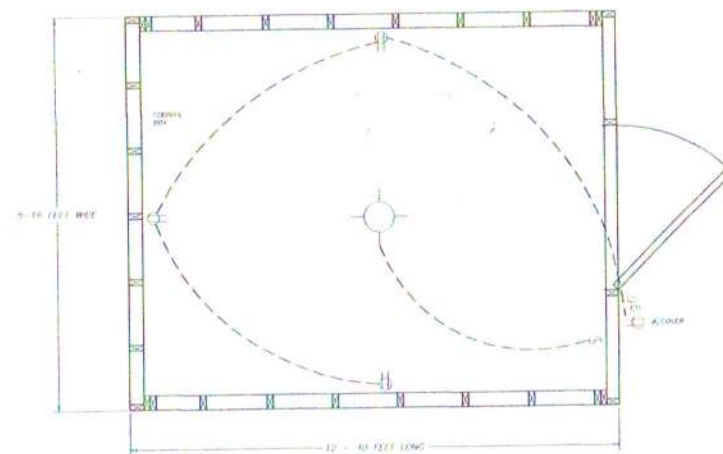
SCALE: 1/8" = 1'-0"

Figure 1 is a schematic representation of the experimental design. It is divided into two main sections: 'BALANCED HIGH' and 'BALANCED LOW'. Each section contains two conditions: 'SINGLE-TASK' and 'MULTITASK'. The 'SINGLE-TASK' conditions show a single vertical bar with a single color gradient. The 'MULTITASK' conditions show two vertical bars, each with a different color gradient. The 'BALANCED HIGH' section is labeled 'HIGH' and the 'BALANCED LOW' section is labeled 'LOW'.

① UNIT POWER PANEL



2 DORMER OPTION WITH SIDE DOUBLE DOOR Scale 1/2" = 1'-0"



ELECTRICAL	SYMBOL
LIGHT	☐
OUTLET	⊖
OUTLET 220V	⊖
OUTLET GFI	⊖
OUTLET WP	⊖
SWITCH	⌞
SWITCH 3 WAY	⌞
SWITCH DOUBLE	⌞
FLOOREXPOSED LIGHT	⊖
JUNCTION BOX	⊞

ELECTRICAL NOTES:

- ELECTRICAL NOTES:**
1. ALL WIRE TO BE THIN SOLID COPPER WITH GROUNDING. WIRING PROTECTED BY NEC 2017 EDITION. WIRE SIZE PER PERMANENT RATING.
 2. FUTURE LOCATION AND TYPE MAY VARY.
 3. PLASTIC OR METAL "NEW WORK" OUTLET BOXES
 4. 20A GFCI OUTLETS
 5. ALL RECEPTS TO BE AT 14 - 15" AP. MAXIMUM 14 OUTLETS
 6. ALL SWITCHES TO BE AT 48 - 54" AP.
 7. FLUORESCENT & LED LIGHTS MAY SUBSTITUTE FOR INCANDESCENT LIGHTING
 8. THE MAIN ELECTRICAL PANEL, FEEDERS, POWER POCKUP TO UNIT (INCLUDING ALL DISCONNECTS, OVER CURRENT DEVICES, PANELS, GROUNDING, ETC. IS DESIGNED BY OTHERS. SITE INSTALLED AND SUBJECT TO LOCAL APPROVAL.

TLE TOP LINE ENGINEERING, LTD.
WILLIAM L. NEARY, III
SMP-51, SMP-79, ICC 5185040
10649 Oakview Pointe Terrace
Gotha, Florida 32734



Austin R. Ace, P.E., Inc.

COASTAL PORTABLE BLDGS., INC.

STAG-2 FLORIDA STAG-2
RESIDENTIAL LAMIN STORAGE SHEET
20' x 10' x 1/2" A. DOMINIC LAMIN

DATE	3 JANUARY 2021
IMPORTS OTHER THAN NOTES: ALL COUNTRY SERIES ARE RECENT.	
BASE	AS SINGAPORE
COUNTRY	ARA
CYCLE	D10
INDEX	A R ACE
APV	BLE
SHEET	2 OF 2
CAD FILE LOCATOR	
IMPORTS FROM COUNTRY CODE/AVAILABLE	
COUNTRY NO.	E - 1