| SHEET | SHEET TITLE |
|---|---|
| 1 | GENERAL NOTES |
| 2 | FRAMING PLANS |
| 3 | FLOOR PLAN & ELEVATIONS |
| 4 | DETAILS |

COMMON ABBREVIATIONS
FBC = FLORIDA BUILDING CODE
MAX = MAXIMUM
MIN = MINIMUM
M.P.H = MILES PER HOUR
O.C = ON CENTER
P.S.F = POUNDS PER SQUARE FOOT
P.T. = PRESSURE TREATED
SPF = SPRUCE PINE FIR
U.O.N = UNLESS OTHERWISED NOTED

PLANT INFORMATION
LIFETIME STORAGE SOLUTIONS
420 S. COOK INDUSTRIAL PKWY
ADEL, GA 31620
PHONE: 229-563-6131

GENERAL NOTES

DESIGN CRITERIA

1.0 REFERENCED STANDARDS

1.1 DESIGN

1.1.1 THE 2020 FLORIDA BUILDING CODE, 7TH EDITION, BUILDING

1.1.1.1 BUILDING - CHAPTER 16

1.1.1.2 THESE PLANS EXCLUDE MIAMI-DADE COUNTY

1.1.2 ASCE 7-16, MINIMUM DESIGN LOADS AND ASSOCIATED CRITERIA FOR BUILDINGS AND OTHER STRUCTURES

1.1.3 2018 NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION DESIGN CODES AND GUIDELINES.

1.1.4 2018 NATIONAL DESIGN SPECIFICATIONS SUPPLEMENT FOR WOOD CONSTRUCTION DESIGN CODES AND GUIDELINES.

1.1.5 PRODUCTS SUBMITTED ARE PRODUCT APPROVED AND CAN BE SUBSTITUTED WITH PRODUCT APPROVED EQUIVALENTS.

1.1.6 REFERENCE STOR-MOR CONSTRUCTION MANUAL (2020) FOR ANY ADDITIONAL DETAILS NOT SHOWN IN THESE PLANS.

1.1.6.1 IF THERE ARE ANY DISCREPANCIES WITH THE STOR-MOR CONSTRUCTION MANUAL, THESE PLANS SHALL CONTROL.

Columbia County Building Department — Plans Reviewed for Code Compliance — State of Florida

2.0 DESIGN LOADS

2.1 DEAD LOADS:

2.1.1 FLOOR DEAD LOAD = 5 PSF

2.1.2 ROOF DEAD LOAD = 6 PSF

2.2 LIVE LOADS:

2.2.1 FLOOR LIVE LOAD = 40 PSF

2.2.2 ROOF LIVE LOAD = 20 PSF

2.2.3 UNINHABITED LOFT LIVE LOAD = 20 PSF

2.3 WIND LOADS: PERFORMED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, CHAPTER 16, LATEST EDITION

2.3.1 DESIGN WIND SPEED: $V_{ult}$ = 150 M.P.H.
$V_{asd}$ = 116 M.P.H.

2.3.2 IMPORTANCE FACTOR = 1.0, CATEGORY I

2.3.3 EXPOSURE CATEGORY = C

2.3.4 INTERNAL PRESSURE COEFFICIENT = +/- 0.18

2.3.5 BUILDING TYPE = ENCLOSED

2.3.6 COMPONENT AND CLADDING ULTIMATE WIND PRESSURES:
DESIGN PER 2020 FBC 7TH EDITION

3.0 CONTRACTOR RESPONSIBILITIES

3.1 A CONTRACTOR SHALL PERFORM ALL SITE WORK IN ACCORDANCE WITH APPLICABLE BUILDING CODES, LOCAL ORDINANCES, ETC.

3.2 CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION. WRITTEN DIMENSIONS TO TAKE PRECEDENCE OVER SCALED DIMENSIONS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THESE PLANS FOR DIMENSIONAL ERROR AND/OR OMISSIONS PRIOR TO CONSTRUCTION. IF ANY ERRORS OR OMISSIONS EXIST IN DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, WITHIN 10 DAYS OF RECEIPT OF PLANS AND PRIOR TO ANY CONSTRUCTION, OR CONTRACTOR ASSUMES THE RESPONSIBILITY FOR THE RESULTS AND ALL COSTS OF RECTIFYING SAME.

3.3 THE CONTRACTOR IS RESPONSIBLE FOR ALL MEANS AND METHODS ASSOCIATED WITH WORK TO BE COMPLETED. THIS IS TO INCLUDE ALL SHORING AND/OR BRACING REQUIRED FOR COMPLETION OF PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROPER USE AND INSTALLATION OF ALL FLASHING/WATER PROTECTION PER THE MANUFACTURER'S SPECIFICATIONS.

3.4 THE CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF COMPONENTS, FIXTURES, OPENINGS, AND LANDSCAPING ON THE SITE WHICH ARE NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT. IF DAMAGE OCCURS TO ITEMS NOT INCLUDED WITHIN THE SCOPE OF THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR RETURNING THAT ITEM TO ITS PRE-DAMAGE CONDITION.

3.5 THESE DRAWINGS AND DETAILS HAVE BEEN PREPARED AND ENGINEERED BASED ON INFORMATION PROVIDED BY THE CONTRACTOR, OWNER AND/OR MANUFACTURER. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION IF SPECIAL SITE CONDITIONS ARISE.

4.0 STRUCTURAL LUMBER

4.1 WALL FRAMING SHALL BE SPF NO.2 GRADE OR BETTER (U.O.N.). BEAMS AND HEADERS SHALL BE SPF NO.2 GRADE OR BETTER (U.O.N.).

4.2 ALL SIDING SHALL BE APA RATED SIDING SHEATHING FOR EXTERIOR EXPOSURE 3/8" THICK.

4.3 ALL PLYWOOD USED FOR INTERIOR FLOORING SHALL BE APA RATED PLYWOOD STRUCTURAL I STURD-I-FLOOR EXPOSURE 1 - 0.703" THICK GARAGE MODEL ALL OTHER MODELS TO USE APA RATED STURD-I-FLOOR EXPOSURE 1 19/32" THICK. EXTERIOR FLOORING FOR CABINS/LOFTED CABINS SHALL BE 5/4" DECKING BOARD.

4.4 PLYWOOD USED FOR ROOF DECKING SHALL BE APA RATED OSB 7/16" THICK.

4.5 TRUSSES SHALL BE SPF NO.2 GRADE OR BETTER.

4.6 PRESSURE TREATMENT OF STRUCTURAL LUMBER:

4.6.1 ONLY STRUCTURAL LUMBER TO BE USED FOR AN EXTERIOR APPLICATION AND IN CONTACT WITH CONCRETE, MASONRY, OR EARTH IS TO RECEIVE A STANDARD GRADE PRESSURE TREATING.

4.6.2 PRESSURE TREATED STRUCTURAL LUMBER IS NOT TO BE USED FOR INTERIOR FRAMING.

5.0 FASTENERS

5.1 SEE FASTENING SCHEDULE

6.0 ROOF COMPONENTS

6.1 SHINGLES

6.1.1 FASTENERS SHALL BE GALVANIZED ROOFING NAILS WITH A MINIMUM 12 GA. SHANK AND MINIMUM 3/8" DIA. HEAD.

6.1.2 FASTENERS SHALL BE LONG ENOUGH TO PENETRATE THE SHINGLES AND PROTRUDE AT LEAST 3/4" INTO OR THROUGH THE ROOF SHEATHING, USE 1" NAILS MINIMUM.

6.1.3 SHINGLES SHALL COMPLY WITH M-DC PA 107-LATEST.

6.1.4 SHINGLES SHALL BE 25-YEAR RATED (MIN).

6.2 METAL

6.2.1 ALL METAL DECK SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.

6.2.2 METAL ROOF DECK SHALL BE 36" WIDE, 29 PRIME GA. CSMI PANEL-LOC PLUS PANEL (MIN)

6.2.3 ROOF DECK SHALL BE FASTENED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

6.2.4 ALL ENDS AND SIDES ARE TO BE ATTACHED WITH #12 HEX HEAD GALV SELF-TAPPING TEK SCREWS.

6.2.5 USE WELD WASHERS FOR ALL DECKING 24 GA. AND THINNER.

6.3 ALL ROOF CLADDING SHALL BE RATED FOR THE WIND PRESSURE PER THE 2020 FBC 7TH EDITION.

6.4 ALL ROOF CLADDING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

7.0 EXTERIOR WINDOWS AND DOOR ASSEMBLIES

7.1 EXTERIOR WINDOW AND DOOR ASSEMBLIES SHALL BE SELECTED/DESIGNED FOR THE WALL WIND PRESSURE STATED IN 2020 FBC 7TH EDITION.

7.2 ALL WINDOW AND GLASS DOOR ASSEMBLIES SHALL BE ANCHORED IN ACCORDANCE WITH THE PUBLISHED MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE THE ULTIMATE PRESSURE SPECIFIED.

7.3 GLAZED OPENINGS IN BUILDINGS LOCATED IN WIND-BORNE DEBRIS REGIONS SHALL BE PROTECTED FROM WIND-BORNE DEBRIS. SEE FBC FOR DEFINITION OF WIND BORNE DEBRIS REGION.

7.4 ALL WINDOWS AND DOORS TO MEET THE MINIMUM SPECIFICATIONS PER THE APPROVED PLANS AND THE FBC.

7.5 GARAGE DOORS AND ROLL UP DOORS SHALL BE PERMITTED TO USE THE ULTIMATE WIND PRESSURES LISTED IN TABLE 1609.7(1) OF THE FBC.

7.5.1 GARAGE DOORS AND ROLL UP DOORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

7.6 WINDOWS AND DOORS INSTALLED BY THE CUSTOMER THAT SHALL BE APPROVED BY THE AHJ AND SHALL COMPLY WITH LOCAL REQUIREMENTS FOR PERMITTING.

8.0 TRUSS

8.1 TRUSS CONNECTOR PLATES SHALL BE CH MACHINE'S CH20 METAL CONNECTOR PLATES (2"x4") OR APPROVED EQUIVALENT.

9.0 HARDWARE

9.1 HINGES - SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE.

9.2 LATCHES - SHALL MEET THE REQUIREMENTS OF THE 2020 FLORIDA BUILDING CODE.

10.0 MISCELLANEOUS

10.1 THIS BUILDING IS NOT DESIGNED FOR HUMAN HABITATION AND DOES NOT HAVE RUNNING WATER OR SANITATION SERVICES. IT HAS BEEN DESIGNED FOR THE LOADS NOTED ON THIS DRAWING.

10.2 FOUNDATION PLANS ARE NOT PART OF THIS PLAN SET AND ARE GOVERNED BY LOCAL JURISDICTION.

10.3 BUILDINGS ARE APPROVED FOR RESIDENTIAL LAWN STORAGE ONLY

10.4 THIS BUILDING IS EXEMPT FROM THE FECC PER SECTIONS R101.4.2.4, R402.1.

10.5 REFER TO TIE DOWN DETAILS FOR PROPER INSTALLATION REQUIREMENTS TO MEET CODE.

10.6 GUTTERS SHALL BE SITE INSTALLED PER THE LOCAL AUTHORITY HAVING JURISDICTION AND PERMITTING REQUIREMENTS.

10.7 IN ACCORDANCE WITH FBC 1609.1.2, "STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 720 SQUARE FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WINDBORNE DEBRIS IMPACT STANDARDS OF THIS CODE".

10.8 IN ACCORDANCE WITH FBC 1010.1.1, 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.

10.9 IN ACCORDANCE WITH FLORIDA STATUTE 553.80 (1)D, LAWN STORAGE BUILDINGS AND STORAGE SHEDS BEARING THE INSIGNIA OF APPROVAL OF THE DEPARTMENT ARE NOT SUBJECT TO 553.842 (FLORIDA PRODUCT APPROVALS) BUT SHALL MEET THE DESIGN WIND LOAD REQUIREMENTS OF THE 2020 FBC 7TH EDITION.

10.10 FLAT METAL STRAPS CAN BE BENT AROUND STRUCTURAL MEMBERS OF WALL STUDS, TRUSSES, CHORDS, ETC. TO HELP SECURE THESE MEMBERS, PROVIDED THAT THE ADDED BEND DOES NOT INTERFERE WITH ANY OF THE EXISTING BREAKS/BENDS IN THE STRAP.

10.11 AS PER FBC SECTION 1626.1 EXCEPTION (F): STORAGE SHEDS THAT ARE NOT DESIGNED FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF LESS THAN 720 SQUARE FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY WINDBORNE DEBRIS IMPACT STANDARDS OF THIS CODE.

10.12 COMPONENTS/CLADDING ARE IN COMPLIANCE WITH THE 2020 FBC 7TH EDITION.

10.13 SHEDS LOCATED IN FLOOD HAZARD AREAS MUST COMPLY WITH THE LOCAL FLOOD ZONE REGULATIONS.

10.14 IF A WALL IS FRAMED FOR FUTURE HVAC UNITS THAT SHALL BE APPROVED BY THE AHJ AND SHALL COMPLY WITH LOCAL REQUIREMENTS FOR PERMITTING.

10.15 HVHZ COMPONENTS FOR SHEDS REQUIRE THAT INSTALLATION PER MANUFACTURER'S INSTRUCTIONS.

| | |
|---|---|
| Building Code | 2020 FBC, 7TH Edition 2017 NEC (NFPA-70) |
| Building Type | Residential Lawn Storage Shed |
| Manufacturer | Lifetime Storage Solutions |
| Agency | Top Line Engineering, LLC |
| Agency Plan Number | AD Garage-20 |
| Construction Type | V-B |
| Fire Protection | B |
| Fire Suppression System | NO |
| Occupancy | UTILITY |
| Allowable # of Stories | 1 |
| Wind Velocity | 150 mph, Exposure C |
| Fire Rating of Exterior Walls | 0 hour |
| Floor Live Load | 40 psf |
| Floor Dead Load | 5 psf |
| Roof Live Load | 20 psf |
| Roof Dead Load | 6 psf |
| "R" Rating of Floor, Wall, and Roof | R-0.74, R-0.48, R-0.59 |
| Modules per Building | 1 |
| Square Footage | 719 sq-ft |
| HVHZ Approved | NO |

| FASTENING SCHEDULE | |
|---|---|
| **Floor System** | |
| End Joist to Skid | 1 - 5/16"x6" GRK or WoodPro Screw per skid |
| Joist to Skid | 3"x0.120 flat coil, screw shank nails - toenail two nails on each side of joist at each skid<br>4 1/4" Strong Drive SDWC Truss Screw - 1 screw every other joist at each skid |
| Joist to Rim Board | 3"x0.120 flat coil, screw shank nails - 4 nails on outside face of rim board into floor joist |
| Double Joists | 3"x0.120 flat coil, screw shank nails - use 2 nails at 24" o.c. on each side |
| 2x6 PT Rim Board | 3"x0.120 flat coil, screw shank nails - 4 nails for each side of the joist evenly spaced |
| 2x4 PT Drag Board | Attached to two center skids - 1 -5/16"x6" GRK or WoodPro screw and 4-3"x0.120 flat coil, screw shank nails per skid |
| Sturd-I-Floor | 2"x0.113" flat coil, ring shank nails or larger - 6" o.c. on perimeter of sheathing, 12" in the field, 9" o.c. at butt seams |
| 5/4 Decking Board | 2"x0.113" flat coil, ring shank nails or larger - 6" o.c. on perimeter of sheathing, 12" in the field, 9" o.c. at butt seams |
| **Wall System** | |
| 2x4 Corner Detail | 3"x0.120 flat coil, screw shank nails - use 2 nails at 12" o.c. |
| Double Studs (2x4) | 3"x0.120 flat coil, screw shank nails - use 2 nails at 24" o.c. |
| Top/Bottom Plate to Stud | 3"x0.120 flat coil, screw shank nails - use 2 nails per stud |
| Headers | 3"x0.120 flat coil, screw shank nails - use 2 at 12" o.c. each side |
| Exterior Sheathing | 2"x0.092" flat coil, ring shank nails (galvanized) - 6" o.c. on perimeter of sheathing, 12" in the field, 6" o.c. at overlap seams |
| Diagonal Brace to Top Plate | 3"x0.120 flat coil, screw shank nails - toenail two nails on each side of diagonal brace |
| **Roof System** | |
| Trusses to Top Plate | 3"x0.120 flat coil, screw shank nails - toenail two nails on each side of truss<br>4 1/4" Strong Drive SDWC Truss Screw - 1 screw every other truss<br>6" Strong Drive SDWC Truss Screw at double wall stud locations |
| Diagonal Brace to Truss | 2"x0.092" flat coil, ring shank nails - toenail two nails on each side of diagonal brace |
| Roof Decking | 7/16" thick OSB - 2 3/8"x0.113" roof sheathing, ring shank nails - 6" o.c. on perimeter of sheathing, 12" in the field, 6" o.c. at butt seams |
| Roofing | See Drawing General Notes |

| BY | DATE | REVISIONS/ISSUED |
|---|---|---|
| | 10/28/2020 | PRELIM SUBMITTAL |
| | 12/29/2020 | FINAL SUBMITTAL |
| | 2/1/2021 | REV SUBMITTAL |

STOR-MOR PORTABLE BUILDINGS

| | |
|---|---|
| PROJECT NO. | 7698 |
| FIELD BOOK NO. | N/A |
| DRAWN DATE | OCTOBER 2020 |
| DRAWN BY | DMG |
| CHECKED BY | BCG |
| C&A REF. NO. | N/A |
| PWC REF. NO. | |
| FEE LOCATION | |

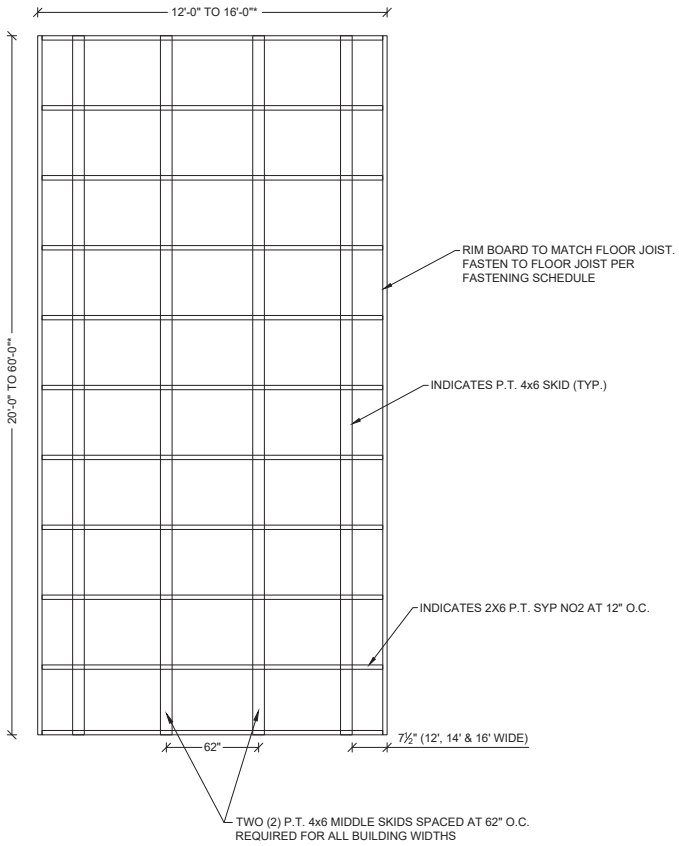

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
1401 BROADWAY STREET SUITE 1
PADUCAH, KY 42001
OFFICE (270) 558-6983
www.chastainengineers.com


GENERAL NOTES

STOR-MOR
PORTABLE BUILDINGS
1104 PARIS ROAD
MAYFIELD, KY

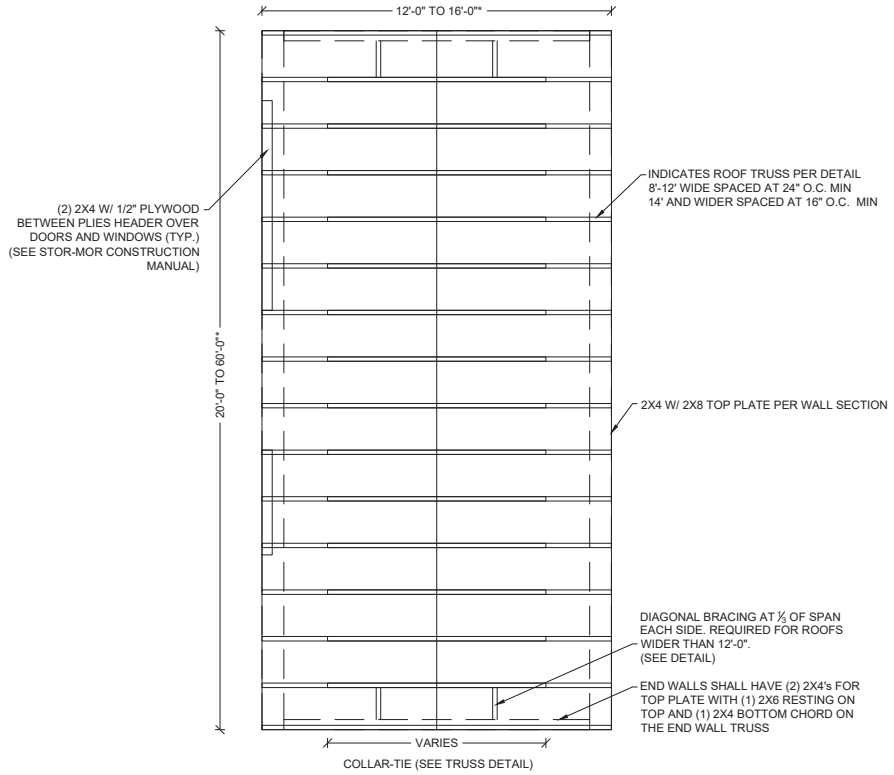
sheet no. 1

project no. 7698




## TYPICAL FLOOR FRAMING PLAN

*FLOOR AREA SHALL NOT EXCEED 719 S.F.




## ROOF FRAMING PLAN

| BY | DATE | REVISIONS/ISSUED |
|---|---|---|
| | 10/28/2020 | PRELIM SUBMITTAL |
| | 12/29/2020 | FINAL SUBMITTAL |
| | 2/1/2021 | REV. SUBMITTAL |

STOR-MOR PORTABLE BUILDINGS

| | |
|---|---|
| PROJECT NO. | 7698 |
| FIELD BOOK NO. | N/A |
| DRAWING DATE | OCTOBER 2020 |
| DRAWN BY | DMG |
| CHECKED BY | BCG |
| C&A REF. NO. | N/A |
| PWC REF. NO. | |
| FILE LOCATION | |

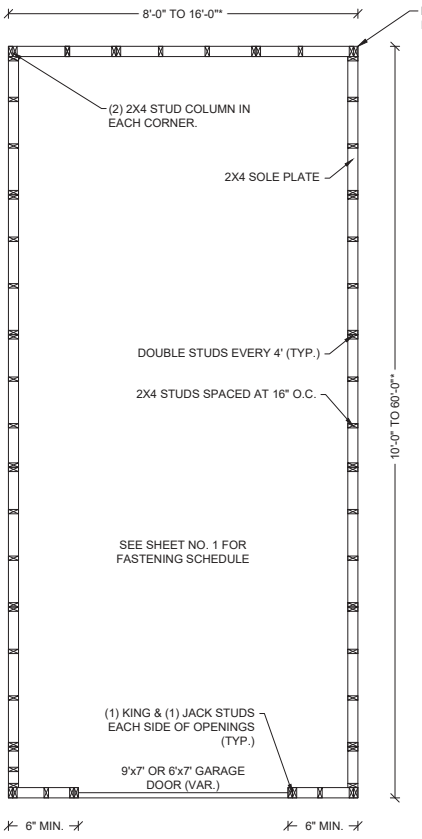

CHASTAIN & ASSOCIATES LLC
1401 BROADWAY STREET SUITE 1
PADUCAH, KY 42001
OFFICE (270) 558-5983
www.chastainengineers.com


GARAGE FRAMING PLANS

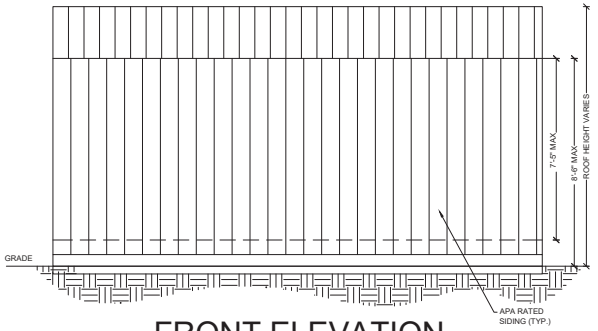
STOR-MOR
PORTABLE BUILDINGS
1104 PARIS ROAD
MAYFIELD, KY

sheet no. 2

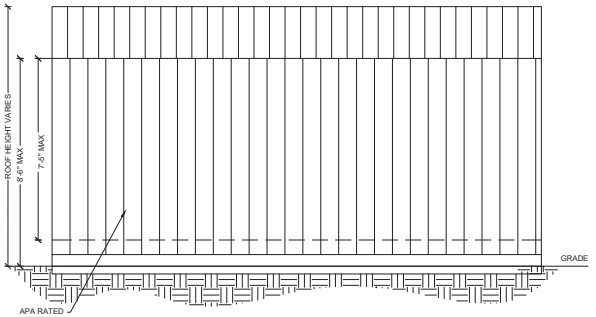
project no. 7698



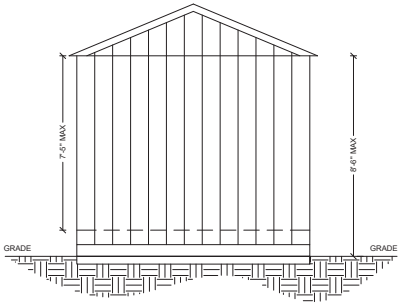

GARAGE FLOOR PLAN
N.T.S



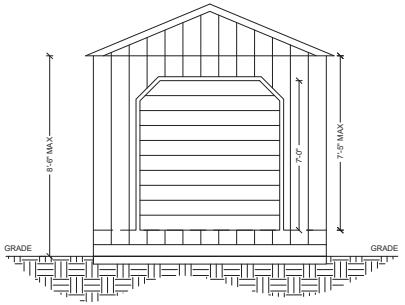

FRONT ELEVATION




REAR ELEVATION




LEFT ELEVATION




RIGHT ELEVATION

GARAGE ELEVATIONS
N.T.S

*FLOOR AREA SHALL NOT EXCEED 719 S.F.

| BY | DATE | REVISIONS/ISSUED |
|---|---|---|
| | 10/28/2020 | PRELIM SUBMITTAL |
| | 12/29/2020 | FINAL SUBMITTAL |
| | 2/1/2021 | REV SUBMITTAL |

STOR-MOR PORTABLE BUILDINGS

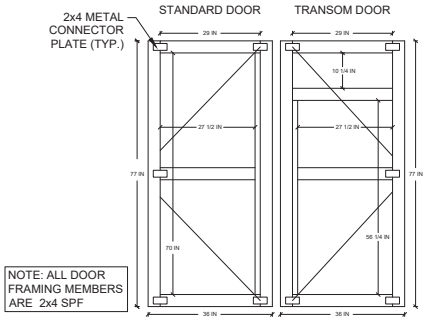
| | |
|---|---|
| PROJECT NO. | 7698 |
| FIELD BOOK NO. | N/A |
| DRAWN DATE | OCTOBER 2020 |
| DRAWN BY | DMG |
| CHECKED BY | BCG |
| C&A REF. NO. | N/A |
| PWC REF. NO. | |
| FILE LOCATION | |


CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
1401 BROADWAY STREET
SUITE 1
PADUCAH, KY 42001
OFFICE (270) 558-8983
www.chastainengineers.com

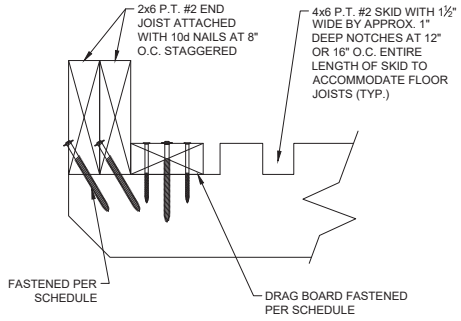

GARAGE PLAN & ELEVATION
STOR-MOR
PORTABLE BUILDINGS
1104 PARIS ROAD
MAYFIELD, KY

sheet no.
3

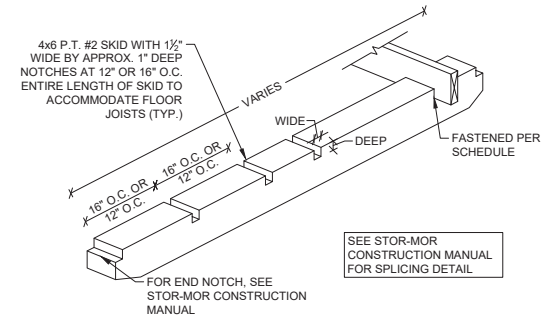
project no.
7698



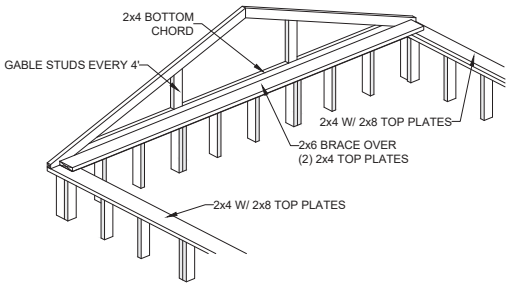

## EXTERIOR DOOR DETAIL
N.T.S.



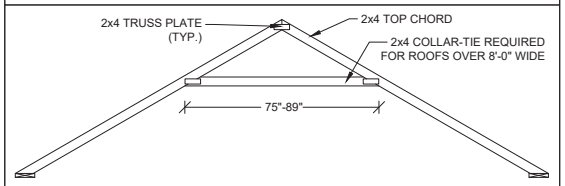

## END WALL JOIST DETAIL
N.T.S.



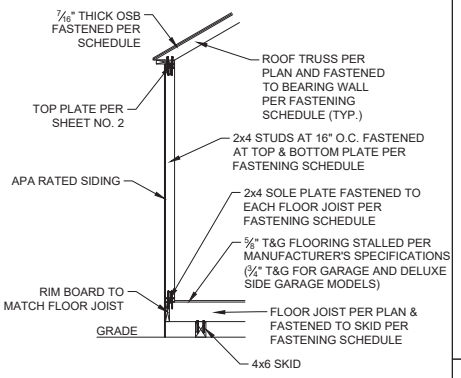

## ISOMETRIC SKID DETAIL
N.T.S.



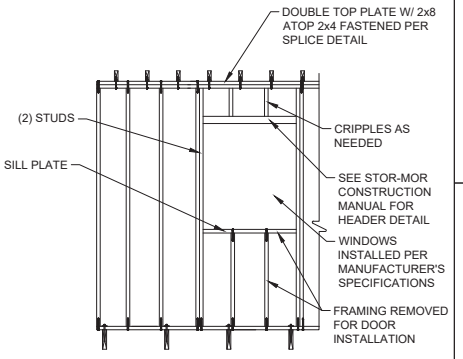

## END WALL DETAIL
N.T.S.



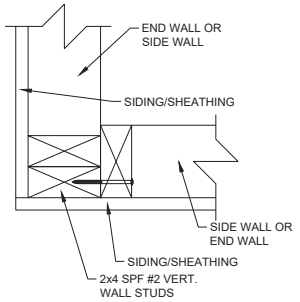

## TYPICAL TRUSS DETAIL
N.T.S.



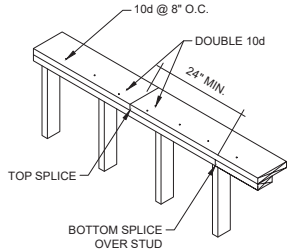

## WALL FRAMING SECTION
N.T.S.



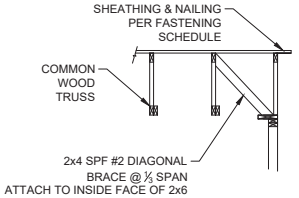

## WALL OPENING DETAIL
N.T.S.




## CORNER CONNECTION DETAIL
N.T.S.




## TOP PLATE SPLICE DETAIL
N.T.S.




## DROP GABLE DETAIL
N.T.S.

| BY | DATE | REVISIONS/ISSUED |
|---|---|---|
| | 10/25/2020 | PRELIM. SUBMITTAL |
| | 12/29/2020 | FINAL SUBMITTAL |
| | 2/1/2021 | REV. SUBMITTAL |

STOR-MOR PORTABLE BUILDINGS

| | |
|---|---|
| PROJECT NO. | 7698 |
| FIELD BOOK NO. | N/A |
| START DATE | OCTOBER 2020 |
| DRAWN BY | DMG |
| CHECKED BY | BCG |
| C&A REF. NO. | N/A |
| PWC REF. NO. | |
| FILE LOCATION | |


CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
1401 BROADWAY STREET
SUITE 1
PADUCAH, KY 42001
OFFICE (270) 558-5983
www.chastainengineers.com


GARAGE DETAILS

STOR-MOR
PORTABLE BUILDINGS
1104 PARIS ROAD
MAYFIELD, KY

sheet no. 4

project no. 7698