DEVERICK
MODULAR FOUNDATION

COLUMBIA COUNTY BUILDING DEPARTMENT
Received for FILE COPY
Code Compliance
PLANS EXAMINER

APPLICABLE CODES

2010 FLORIDA RESIDENTIAL BUILDING CODE

OCCUPANCY CLASS
RESIDENTIAL (R)

CONSTRUCTION DOCUMENTS

1. THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS

1. AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

BUILDING CRITERIA

CONSTRUCTION TYPE VB (TABLE 503) UNPROTECTED – NON SPRINKLED

ALLOWABLE AREA:,	.9000 S.F
ACTUAL.	.803 S.F
ALLOWABLE STORIES:	.2
ACTUAL.	1

WIND DESIGN INFORMATION

WIND SPEED:	120 MPH
CATEGORY	II
EXPOSURE:	B
INTERNAL PRESSURE	+/- 0 18

CLADDING COMPONANTS

ZONE 1 10 S F	.23.7/-25.9 PSF
ZONE 2: 10 S F	.23.7/-30.3 PSF
ZONE 3: 10 S F	.23.7/-30.3 PSF
ZONE 4. 10 S F	.25.9/-28.1 PSF
ZONE 5: 10 S F	.25.9/-34.7 PSF

LEGEND

SYMBOL	DESCRIPTION
	ELEVATION MARK
	SECTION MARK
	DETAIL CALLOUT
ELEV. = 0'-0"	ELEVATION INDICATOR
01	DOOR TAG
1	WINDOW TAG
ROOM 000	ROOM TAG
1	REVISION CLOUD W/ TAG

DRAWING INDEX - BUILDING PACKAGE

SHEET #	SHEET TITLE	REV #	REV DATE
T-1.0	TITLE SHEET	0	04-04-2013
S-1.0	GENERAL NOTES	0	04-04-2013
S-2.0	FOUNDATION PLAN	0	04-04-2013
S-2.1	ALTERNATE FOUNDATION PLAN	0	04-04-2013

REV #	DATE	REVISION NOTES
0	04-04-13	ISSUED FOR CONSTRUCTION

STRUCTURAL/CIVIL ENGINEERS
P.O. BOX 187
130 W HOWARD STREET
LIVE OAK, FL 32064
PHONE: (386) 362-3678
FAX: (386) 362-6133
GARY J. GILL PE 51942
AUTH. # 9461

DEVERICK
MODULAR FOUNDATION
FLORIDA

TITLE SHEET

GARY J. GILL LICENSE No. 51942

T-1.0

SHEET 1 OF 4

APPLICABLE CODES
2010 FLORIDA BUILDING CODE

CONSTRUCTION DOCUMENTS
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITIES FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR SHALL REVIEW THE CONSTRUCTION DOCUMENTS AND VERIFY ALL DIMENSIONS. ANY DISCREPANCIES SHALL BE REPORTED TO YOUR SALES REPRESENTATIVE PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRICATION OF ANY MATERIALS.

DO NOT SCALE OFF THESE PLANS
AMPLE DIMENSIONS ARE SHOWN ON THE PLANS TO LOCATE ALL ITEMS. SIMPLE ARITHMETIC MAY BE USED TO DETERMINE THE LOCATIONS OF THOSE ITEMS NOT DIMENSIONED.

BWIND DESIGN INFORMATION

WIND SPEED·	120 MPH
CATEGORY·	.I
EXPOSURE.	...B
INTERNAL PRESSURE.	.0.18+/-

CLADDING COMPONANTS

ZONE 1 10 S F	.23.7/-25.9 PSF
ZONE 2. 10 S F	.23.7/-30.3 PSF
ZONE 3: 10 S.F	.23.7/-30.3 PSF
ZONE 4. 10 S.F	.25.9/-28.1 PSF
ZONE 5. 10 S.F	25.9/-34 7 PSF

DESIGN CRITERIA

DESIGN PER 2010 FLORIDA BUILDING CODE

CONCRETE
1 ALL CONCRETE DESIGNED PER CURRENT EDITION OF ACI 318
2. ALL CONCRETE SHALL BE CONTROLLED CONCRETE.
3 CONCRETE SHALL HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS.
   A. FOUNDATION WALLS PIERS AND FOOTINGS .3000 PSI
   B SLABS ON GRADE. .3000 PSI
   C ALL OTHER CONCRETE. .3000 PSI
4. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE WITH A NOMINAL AIR DRY DENSITY OF 145 PCF
5. PROVIDE CONSTRUCTION JOINTS WHERE SHOWN OMIT NONE AND ADD NON WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT/ENGINEER SUBMI DRAWINGS SHOWING ALL PROPOSED CONSTRUCTION JOINT LOCATIONS FOR APPROVAL PRIOR TO PREPERATION OF AFFECTED REINFORCEMENT SHOP DRAWINGS
6 MINIMUM ELAPSED TIME BETWEEN ADJACENT CONCRETE PLACEMENTS SHALL BE 48 HRS
7 CONCRETE MIX DESIGN FOR EACH TYPE AND STRENGTH OF CONCRETE SPECIFIED SHALL BE SUBMITTED FOR ARCHITECT /ENGINEER REVIEW 30 DAYS PRIOR TO PLACEMENT OF CONCRETE.
8 ALL REINFORCING STEEL ASTM A615 GRADE 60 ALL WELDED WIRE FABRIC ASTM A185

TERMITE PROTECTION NOTES:
1 SOIL CHEMICAL BARREIER METHOD·
   A PERMANNENT SIGN THAT IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED THE SIGN SHAL L BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 1042.6
2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1 -0' AWAY FROM BUILDING SIDE WALLS FBC 1503.4.4
3 IRRIGATION/SPRINKLERS SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1 -0' FROM BUILDING SIDE WALLS FBC 1503.4 TO PROVIDE FOR INSPECTION FOR TERMITE INFESTATION BETWEEN WALL COVERINGS AND FINAL EARTH GRADE SHALL NOT BE LESS THAN 6' EXCEPTION PAINT AND DECORATIVE CEMENTIOUS FINISH LESS THAN 5/8' THICK ADHERED DIRECTLY TO FOUNDATION WALL. FBC 1816.1 1
4 INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE FBC 1816.1 1
5. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
6. BOXED AREAS IN CONCRETE FLOOR FOR SUBSEQUENT INSTALLATION OF TRAPS ETC SHALL BE MADE WITH PERMANENT METAL OR PLASTIC FORMS, PERMANENT FORMS MUST BE OF A SIZE AND DEPTH THAT WILL ILMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT FBC 1816.1.3
7 MINIMUM 6 MIL VAPOR RETATRDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION IF RAINFALL OCCURS BEFORE VAPOR RETARDER PLACEMENT RETREATMENT IS REQUIRED FBC 1816 1.4
8 CONCRTE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT FBC. 1816.1.5
9. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1 -0' OF THE STRUCTURE SIDEWALLS FBC 1816 1.6
10 AN EXTERIOR VERTICAL CHEMICAL BARRIER MUST BE INSTALLED AFTER CONSTRUCTION IS COMPLETE INCLUDING LANDSCAPING AND IRRIGATION. ANY SOIL DISTURBED AFTER THE VERTICAL BARRIER IS APPLIED SHALL BE RETREATED FBC 1916 1.6
11 ALL BUILDINGS ARE REQUIRED TO HAVE PRE-CONSTRUCTION TREATMENT FBC 1816 1.6
12. A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPARTMENT BY A LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED THE CERTIFICATE OF COMPLIANCE SHALL STATE. 'THE BUILDING HAS RECEIVED A COMPLTE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES' FBC 1816 1 7
13. AFTER ALL WORK IS COMPLETED LOOSE WOOD AND FILL MUST BE REMOVED FROM BELOW AND WITHIN 1 -0' OF THE BUILDING THIS INCLUDES ALL GRADE STAKES TUB TRAP BOXES FORMS SHORING OR OTHER CELLULOSE CONTAINING MATERIAL. FBC 503 1 3
14 NO WOOD VEGETATION STUMPS CARDBOARD TRASH ETC SHALL BE BURIED WITHIN 15 -0' OF ANY BUILDING OR PROPOSED BUILDING FBC 3203.1.4

REINFORCING
1 ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM 615 GRADE 60
2 WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A185.
3 CLEARANCE OF MAIN REINFORCEMENT FROM ADJACENT SURFACES SHALL CONFORM TO THE FOLLOWING (UNLESS OTHERWISE SHOWN IN DETAIL)
   A. UNFORMED SURFACES IN CONTACT WITH GROUND (FOOTING OR WALL BOTTOM) .3'
   B SLABS ON GRADE. .2 1/2'
   C FORMED SURFACE IN CONTACT WITH GROUND OR EXPOSED TO WEATHER (WALLS PIERS) .2'
   D IN ALL CASES CLEARANCE NOT LESS THAN DIAMETER OF BARS.
   NOTE:MAXIMUM DEVIATION FROM THESE REQUIREMENTS SHALL BE + 1/4 FOR SECTIONS 10' OR LESS AND + 1/2' FOR SECTIONS OVER 10' THICK.
4 REINFORCEMENT SHALL BE CONTINUOUS THROUGH ALL CONSTRUCTION JOINTS UNLESS OTHERWISE INDICATED ON DRAWINGS.
5 WHERE REINFORCEMENT IS NOT SHOWN ON DRAWINGS PROVIDE REINFORCEMENT IN ACCORDANCE WITH APPLICABLE TYPICAL DETAILS OR SIMILAR TO THAT SHOWN FOR MOST NEARLY SIMILAR SITUATIONS AS DETERMINED BY THE ARCHITECT/ENGINEER. IN NO CASE SHALL REINFORCEMENT BE LESS THAN MINIMUM PERMITTED BY APPLICABLE CODES
6 ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE 'MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-315)
7 ALL REINFORCEMENT SHALL BE INSPECTED AND APPROVED BY THE ARCHITECT/ENGINEER OR OWNER TESTING AGENCY BEFORE CONCRETE IS PLACED
8 WHERE CONTINUOUS BARS ARE CALLED FOR THEY SHALL BE RUN CONTINUOUSLY AROUND CORNERS LAPPED AT NECESSARY SPLICES AND HOOKED AT DISCONTINUOUS ENDS.
9 WELDED WIRE FABRIC SHALL BE LAPPED ONE FULL MESH PANEL OR 6' MINIMUM.
10 ALL REINFORCING SPLICES SHALL CONFORM TO THE TABLE(S) PRVIDED IN THE GENERAL NOTES FOR STRENGTH OF CONCRETE BUT IN NO CASE LESS THAN THE REQUIRENMENTS OF THE LATEST EDITION OF ACI-318.
11 SLABS AND WALLS SHALL NOT BE SLEEVED OR BOXED OUT OR HAVE THEIR REINFORCING INTERUPTED EXCEPT AS SPECIFICALLY NOTED ON THE D.AWINGS PROVIDE ADDITIONAL REINFORCEMENT AROUND OPENINGS AS SHOWN IN THE DETAILS
12 SUBMIT CHECKED SHOP DRAWINGS TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OF REINFORCING DRAWINGS SHALL SHOW REINFORCING DETAILS INCLUDING SIZE AND SPACING OF BARS AND SUPPORT DETAILS SHOP DRAWINGS SHALL INDICATE CONSTRUCTION JOINTS, CURBS DEPRESSIONS SLEEVES AND OPENINGS, ETC. WITH ALL ADDITIONAL REINFORCING REQUIRED
13 BAR SUPPORTS SHALL BE GALVANIZED OR STAINLESS STEEL. BAR SUPPORTS IN CONTACT WITH EXPOSE SURFACES SHALL BE GALVANIZED AND PLASTIC TIPPED

SLAB AND WALL REINFORCING LAP SPLICE LENGTHS

LAP SPLICE LENGTHS FOR REINFRCING IN 4000 PSI CONCRETE ARE AS FOLLOWS

BAR SIZE	TENSION SPLICE		DEVELOPMENT LENGTH
	TOP	OTHER	
3	21	15	13
4	29	20	17
5	35	25	21
6	43	31	25
7	54	39	32
8	71	51	42

LAP SPLICE LENGTHS FOR REINFORCING IN 3000 PSI CONCRETE ARE AS FOLLOWS

BAR SIZE	TENSION SPLICE		DEVELOPMENT LENGTH
	TOP	OTHER	
3	21	15	13
4	29	20	17
5	35	25	21
6	46	33	27
7	63	45	37
8	82	59	49

NOTES:
1 LAPPED SPLICE LENGTHS BASED ON ASTM A-615. GADE 60 REBAR
2. REINFORCING BARS ARE CLASSIFIED AS TOP BARS WHEN MORE THAN 12' OF CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR.
3. COMPRESSION SPLICES PERMISSIBLE ONLY WHERE SPECIFICALLY NOTED ON THE DRAWINGS DETAILS OR SCHEDULS.
4. TENSION SPLICES SHALL BE USED IN ALL BEAMS SLABS AND WALLS UNLESS OTHERWISE NOTED
5 WHEN LAPPING LARGER BAR WITH SMALLER BAR, LAP LENGTH FOR SMALLER BAR SHALL GOVERN RESPECTIVE SPLICE.
6 SPLICE CONTINUOUS TOP REINFORCING BARS AT CENTER OF CLEAR SPAN WITH COMPRESSION SPLICES
7 SPLICE CONTINUOUS BOTTOM REINFORCING BARS AT CENTER OF SUPPORTING ELEMENT WITH COMPRESSION SPLICES
8. ALL SPLICE LENGTHS NOTED IN INCHES

FOUNDATIONS
1 ALL FINISHED EXCAVATIONS AND BEARING GRADES SHALL BE INSPECTED AND APPROVED BY THE OWNERS SOIL TESTING AGENCY BEFORE ANY CONCRETE IS PLACED
2 ALL FOUNDATION WALLS SHALL BE BRACED DURING THE OPERATION OF BACKFILLING AND COMPACTION BRACING SHALL BE LEFT IN POSITION UNTIL PERMANENT RESTRAINTS ARE EFFECTIVE BACKFILL NO FOUNDATION WALLS UNTIL PERMANENT LATERAL STRUCTURAL SUPPORT SYSTEM IS IN PLACE AND OF ADEQUATE STRENGTH TO WITHSTAND THE APPLIED LATERAL PRESSURES
3. LOCATE ALL EXISTING BELOW GRADE UTILITIES PROVIDE UTILITIES WITH POSITIVE PROTECTION AGAINST DAMAGE DUE TO SETTLEMENT AND CONSTRUCTION OPERATIONS.
4 ALL FOOTING SUBGRADES AS REQUIRED AND ALL SLAB SUBGRADES SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT BASED ON LABORATORY DESIGNATION ASTM D1557
5 COMBINED AND INDIVIDUAL FOOTINGS AR DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2,000 PSF CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2,000 PSF

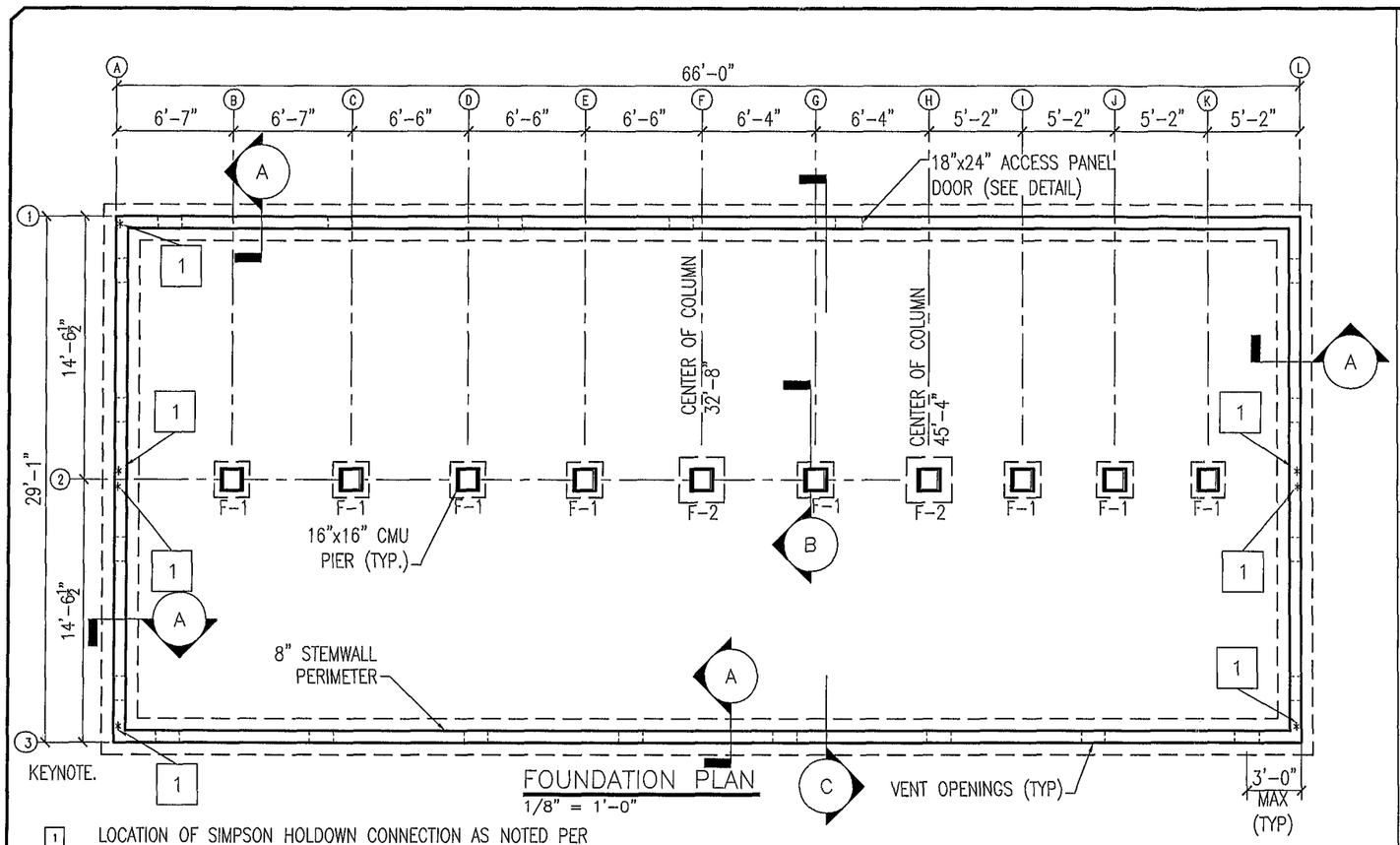
REV #	DATE	REVISION NOTES
0	04-04-13	ISSUED FOR CONSTRUCTION

P.O. BOX 187
130 W HOWARD STREET
LIVE OAK, FL 32064
PHONE: (386) 362-3678
FAX: (386) 362-6133
GARY J. GILL PE 51942
AUTH. # 9461
STRUCTURAL/CIVIL ENGINEERS

DEVERICK
MODULAR FOUNDATION
FLORIDA

GENERAL NOTES

S-1.0



1 LOCATION OF SIMPSON HOLDOWN CONNECTION AS NOTED PER MANUFACTOR SHOP DRAWINGS. REFER TO DRAWING SW-102 FOR LOCATION AND SPECIFICATIONS

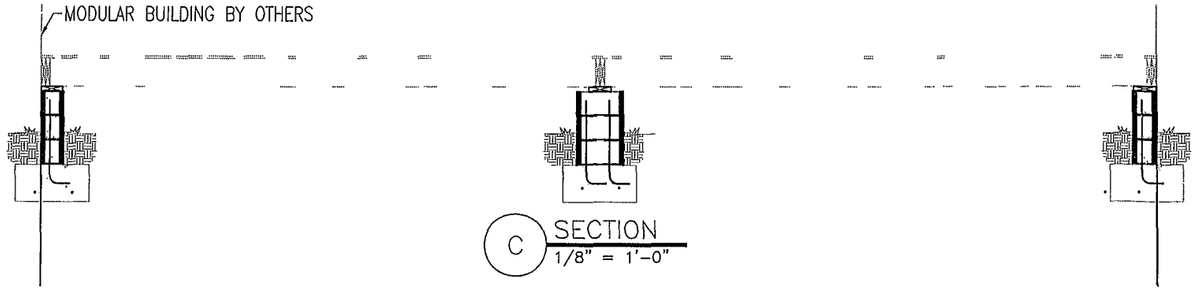
8"X16" VENT OPENINGS – 16 REQUIRED

F-1 FOOTING SIZE – 24"X24"X12" – 5 REQUIRED

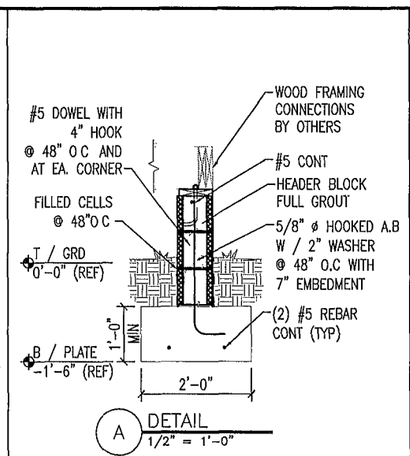
F-2 FOOTING SIZE – 32"X32"X12" – 2 REQUIRED

*NOTES:

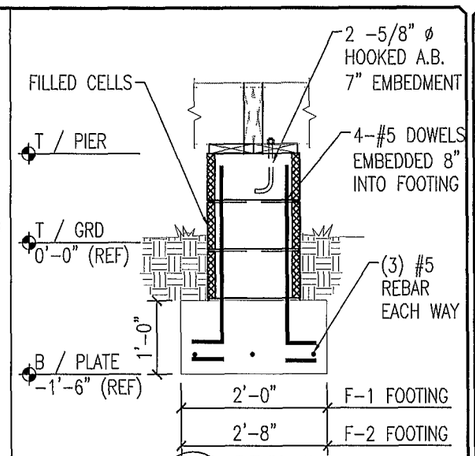
(1) CONTRACTOR SHALL VERIFY ALL FOUNDATION DIMENSIONS PRIOR TO CONSTRUCTION. IF A DIMENSION CONFLICT OCCURS BETWEEN FLOOR PLAN AND THE FOUNDATION PLAN, THE FLOOR PLAN SHALL CONTROL



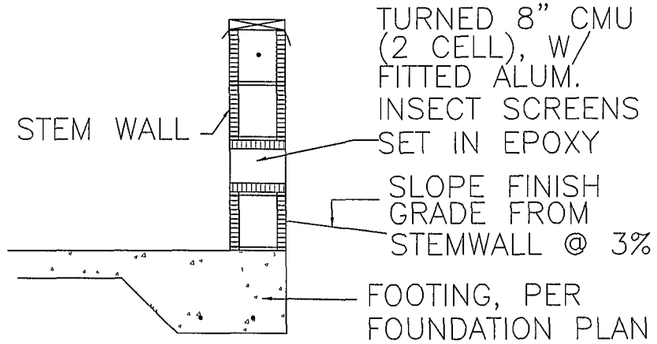
C SECTION 1/8" = 1'-0"



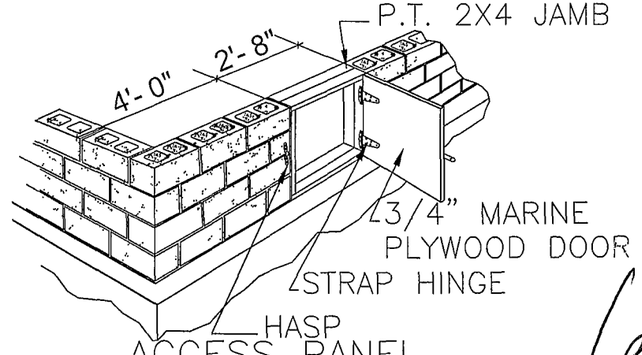
A DETAIL 1/2" = 1'-0"



B SECTION 1/2" = 1'



VENTILATION VENTS
N.T.S.



ACCESS PANEL
N.T.S.

4/18/12

REV #	DATE	REVISION NOTES
0	04-04-13	ISSUED FOR CONSTRUCTION

cg
STRUCTURAL/CIVIL ENGINEERS
P.O. BOX 187
130 W HOWARD STREET
LIVE OAK, FL 32064
PHONE: (386) 362-3678
FAX: (386) 362-6133
GARY J. GILL PE 51942
AUTH. # 9461

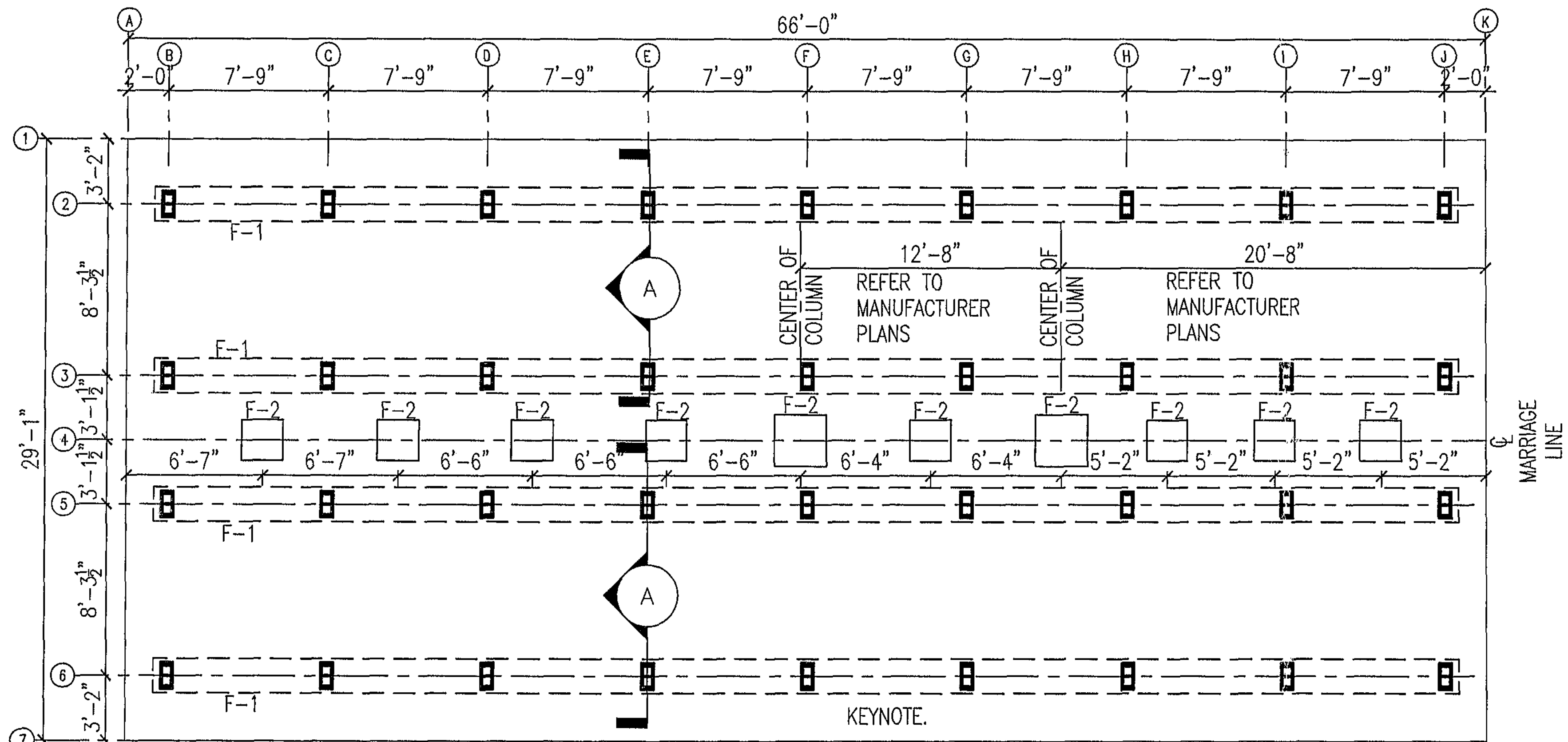
DEVERICK
MODULAR FOUNDATION
FLORIDA

FOUNDATION PLAN

PROJECT NUMBER: PF13-013
DRAWN BY: F VULETICH
CHECKED BY: G J G.

S-2.0

SHEET 3 OF 4

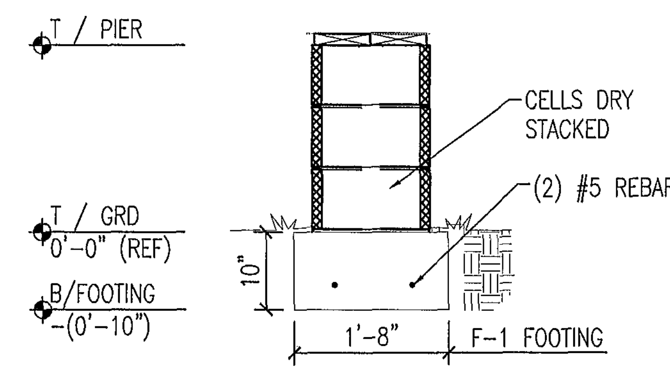


FOUNDATION PLAN
1/8" = 1'-0"

KEYNOTE.

F-1 FOOTING SIZE – 20"x10"x CONTINIOUS

F-2 COLUMN AND MARRIAGE WALL SUPPORTS PER MANUFACTOR – NOT PART OF FOUNDATION DESIGN



A SECTION
1/2" = 1'

REV #	DATE	REVISION NOTES
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DEVERICK
MODULAR FOUNDATION
FLORIDA

ALTERNATE
FOUNDATION PLAN

S-2.1

SHEET 4 OF 4

CHAMPION

CHAMPION HOME BUILDERS, INC.
P.O. BOX 2097
(1915 SE STATE ROAD 100)
LAKE CITY, FL 32056

C643
1,914 Sq.Ft.

CODE SUMMARY:

STATE	RESIDENTIAL	ELECTRICAL	MECHANICAL	PLUMBING	ENERGY	FIRE PREVENTION	FUEL	ACCESSIBILITY
FLORIDA	2010 FLORIDA RESIDENTIAL BUILDING CODE	2008 NATIONAL ELECTRICAL CODE	2010 FLORIDA RESIDENTIAL BUILDING CODE	2010 FLORIDA RESIDENTIAL BUILDING CODE	2010 FLORIDA RESIDENTIAL BUILDING CODE ENERGY CONSERVATION	2010 FLORIDA FIRE PREVENTION	2010 FLORIDA RESIDENTIAL BUILDING CODE	2012 FLORIDA ACCESSIBILITY (INCORPORATES 2010 ADA)

SHEET INDEX

SHEET INDEX CONT.

1-STORY TRUSS
PACKAGE
UNIVERSAL FOREST PRODUCTS
14'-6" WIDE MODULES
C367806 (3/12 VAULT)

Date 1-20-2012 Plan No. 2425-0266F
Approved By SCOTT S. FRANCIS

Modular Building Plans Examiner
Florida License No. SMP 42

BUILDING INSULATION VALUES	
WALLS.	R-19
FLOOR:	R-11
CEILING.	R-30
WINDOWS	U = 0.35

12.76 SQUARE FEET NET FREE AREA OF ATTIC VENTILATION TO BE PROVIDED BY SOFFIT AND RIDGE VENTS/ROOF VENTS.

12.76 SQUARE FEET NET FREE AREA OF CRAWL SPACE VENTILATION TO BE PROVIDED BY FOUNDATION CONTRACTOR.

1st-FLOOR IS 1,914 SQ. FT. - TOTAL CONDITIONED FLOOR AREA.

NOTE:
COMPLETION OF THIS BUILDING TO BE IN COMPLIANCE WITH ALL STATE AND LOCAL DESIGN CODES. ALL WORK TO BE COMPLETED BY A LICENSED CONTRACTOR AND INSPECTED BY A LOCAL BUILDING OFFICIAL.

NOTE:
"STRUCTURE HAS BEEN DESIGNED FOR INSTALLATION ON SITE - BUILT PERMANENT FOUNDATION AND IS NOT INTENDED TO BE MOVED, ONCE SO INSTALLED "

NOTES:

ALL MATERIALS COVERED BY THE FLORIDA BUILDING COMMISSION 9N-3 RULES SHALL HAVE CURRENT FLORIDA PRODUCT APPROVAL.

DATA PLATE AND STATE INSIGNIA'S ARE LOCATED IN or ON THE PANEL BOX OF THE HOME

SEALED PRINTS ARE ON FILE IN THE OFFICE OF HWC, INC.

PLAN REVIEW AND INSPECTION REQUIRED BY CHAPTER 633 F S., TO BE HANDLED BY LOCAL FIRE SAFETY INSPECTOR

THIS BUILDING IS ON A PERMANENT FOUNDATION AND IS NOT INTENDED TO BE MOVED ONCE SO INSTALLED.

SEE THE STATE APPROVED CONSTRUCTION PACKAGE FOR ROOF CONSTRUCTION DETAILS AND TYPICAL CONSTRUCTION DETAILS.

ADDITIONAL HINGED ROOF DETAILS MUST BE INCLUDED WHEN HOME IS BUILT WITH HINGED ROOF.

ACTUAL CONSTRUCTION METHOD AND PRODUCTS MAY VARY FROM DETAILS CONTAINED IN THIS DOCUMENT PROVIDED THE METHOD OF CONSTRUCTION AND PRODUCTS ARE ADDRESSED IN THE DBPR QUALITY ASSURANCE AND BUILDING SYSTEMS MANUAL LOCATED AT THE MANUFACTURING FACILITY.

SITE INSTALLED ITEMS:

NOTE: THAT THIS LIST DOES NOT NECESSARILY LIMIT THE ITEMS OF WORK AND MATERIALS THAT MAY BE REQUIRED FOR A COMPLETE INSTALLATION ALL SITE RELATED ITEMS ARE SUBJECT TO LOCAL JURISDICTION APPROVAL.

1 THE COMPLETE FOUNDATION SUPPORT AND TIE DOWN SYSTEM
2 RAMPS, STAIRS AND GENERAL ACCESS TO THE BUILDING
3 PORTABLE FIRE EXTINGUISHER(S)
4 BUILDING DRAINS CLEANOUTS, AND HOOK-UP TO PLUMBING SYSTEM
5 ELECTRICAL SERVICE HOOK-UP (INCLUDING FEEDERS) TO THE BUILDING
6 THE MAIN ELECTRICAL PANEL AND SUB-FEEDERS (MULTI-UNITS ONLY)
7 CONNECTION OF ELECTRICAL CIRCUITS CROSSING OVER MODULE MATING LINE(S) - (MULTI-UNITS ONLY)
8 STRUCTURAL AND AESTHETIC INTERCONNECTIONS BETWEEN MODULES (MULTI-UNITS ONLY)
9 DORMERS, AND ANY OTHER AESTHETIC CONNECTIONS.
10 FOUNDATION SILL PLATE ANCHORAGE.
11 FLOOR INSULATION MAY BE SITE INSTALLED
12 POTABLE WATER SERVICE, MAIN SHUT OFF VALVE.
13 OPENING PROTECTION IN WIND DEBRIS REGIONS I E. WINDOWS, DOORS, SHUTTERS
14 PLAN REVIEW AND INSPECTION REQUIRED BY CHAPTER 633 F S , TO BE HANDLED BY LOCAL FIRE SAFETY INSPECTOR.
15 ROOFING MATERIAL, METAL ROOF, EVE DRIP
16. GABLE ENDWALL FRAMING
17 A/C UNIT
18 GAS LINES WILL BE STUBBED OUT CONNECTIONS AND INSTALLATION TO BE DONE BY OTHERS ON SITE (WHERE APPLICABLE)
19 A.A.V (AIR ADMITTANCE VALVE TEST) AFTER DWV TEST
20 COMMUNICATION OUTLET PER NEC 800-156

2010 FLORIDA RESIDENTIAL BUILDING CODE

FLORIDA
STRUCTURAL LOAD LIMITATIONS:
EXPOSURE C.

MEAN ROOF HEIGHT:
20 FT 30FT Elevated
FLOOR LIVE LOAD:
40 PSF
ROOF LIVE LOAD:
20 PSF
WIND LOAD
1 130 MPH V ult / 101 MPH V asd — WIND SPEED.
2 Iw = 1.0 — WIND IMPORTANCE FACTOR
3 C — WIND EXPOSURE CATEGORY
4 GCpi = 0.18 — INTERNAL PRESSURE COEFFICIENT
5. D W.P FOR C/C — PSF

Pr = ROOF COMPONENT & CLADDING LOAD.(EA10PSF)
ZONE 1 = -20.2 PSF -22.5 PSF-Elevated
ZONE 2 = -35.1 PSF -39.2 PSF Elevated
ZONE 3 = -52.0 PSF -58.0 PSF-Elevated
ROOF OVERHANG (EA10)
ZONE 2 = -41.2 PSF -45.9 PSF-Elevated
ZONE 3 = -67 7 PSF 75.6 PSF-Elevated
Pw = WALL COMPONENT & CLADDING LOAD.(EA10)
WALL (WINDOWS DOORS)
ZONE 4 = -24.0 PSF -26.7 PSF-Elevated
ZONE 5 = -29.5 PSF -33.0 PSF-Elevated
Pw = WALL COMPONENT & CLADDING LOAD.(EA40)
WALL (SLIDING GLASS DOORS)
ZONE 4 = -22 1 PSF -24.6 PSF-Elevated
ZONE 5 = -26.8 PSF -29.8 PSF-Elevated

6. THIS BUILDING IS NOT DESIGNED FOR PLACEMENT ON THE OF A HILL OR ESCARPMENT EXCEEDING 15 FEET IN HEIGHT
7 FLOOD LOAD:
THIS BUILDING SHALL NOT BE INSTALLED BELOW THE BASE FLOOD ELEVATION IN ANY FLOOD HAZARD AREA OR ZONE, BUT THE HOME MAY BE LOCATED IN A FLOOD HAZARD AREA OF ZONE WHEN SET ON A FOUNDATION DESIGNED FOR USE IN THAT AREA OR ***ZONE. THE FOUNDATION SHALL BE DESIGNED BY AN ENGINEER REGISTERED*** IN THE STATE (BY OTHERS NOT CHAMPION HOME BUILDERS). THIS FOUNDATION SHALL BE DESIGNED AND CONSTRUCTED TO RESIST ALL LOADS THAT MAY BE EXERTED ON THE STRUCTURE: NO LOADS APPLIED TO THE FOUNDATION SHALL BE TRANSFERRED TO THE HOME.

EXPOSURE B.

THIS BUILDING MEETS ALL REQUIREMENTS FOR 140 MPH V ult

CHAMPION
P O BOX 2097 HWY 100 EAST
LAKE CITY, FL 32056

PHILLIP COPELAND, P.E.
DIRECTOR OF MODULAR ENGINEERING
755 WEST BIG BEAVER ROAD
SUITE 1000
TROY MI 53756
OFFICE 248-614-6343
FAX 248-273-4282

PHILLIP J COPELAND LICENSE No. 67942 STATE OF FLORIDA PROFESSIONAL ENGINEER

LISTING AGENCY APPROVAL
THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA.

CONST TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	130 MPH Vult / 101 MPH Vasd
FIRE RATING OF EXT WALLS	0
PLAN NO.	2425-0266F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	8-30-12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

HWC MUR-251

Third Party
Hilborn, Werner Carter and Associates (HWC)
1627 South Myrtle Ave.
Clearwater, Florida 33756

TITLE
COVER SHEET

MODEL.
261-C643
Ref- 0664M1-0

DATE: 07-31-12

DRAWN BY- GAT

REVISED.

REVISIONS

SHEET NO.
CP-101

2010 FLORIDA RESIDENTIAL BUILDING CODE

1. ALL GLAZING WITHIN 24 INCH ARC OF DOORS, WHOSE BOTTOM EDGE IS LESS THAN 60 INCHES ABOVE THE FLOOR, AND ALL GLAZING IN DOORS SHALL BE SAFETY, TEMPERED OR ACRYLIC PLASTIC SHEET
2. OCCUPANT LOAD IS BASED ON 1 PERSON PER 200 SQUARE FEET OF FLOOR AREA
3. MINIMUM CORRIDOR WIDTH IS 36 INCHES
4. WINDOWS , GLASS, DOORS, SHALL COMPLY WITH AAMA / NWWDA 101 / I S.2.
5. ALL MATERIALS USE IN THIS CONSTRUCTION OF THE BUILDING WHICH ARE COVERED BY THE FLORIDA BUILDING COMMISSION CHAPTER 9N-3 RULES SHALL HAVE CURRENT FLORIDA PRODUCT APPROVAL.
6. ALL CONSTRUCTION, MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CODES SPECIFIED ON THE DRAWINGS.
7. DATA PLATE AND STATE INSIGNIAS ARE LOCATED IN OR ON THE PANEL BOX OF THE HOME

MECHANICAL NOTES: 2010 FLORIDA RESIDENTIAL BUILDING CODE

1. ALL SUPPLY AIR REGISTERS ARE ADJUSTABLE, EXCEPT WHERE OTHERWISE SPECIFIED.
2. INTERIOR DOORS SHALL BE UNDERCUT 1.5 INCHES ABOVE FINISHED FLOOR FOR AIR RETURN AND/OR AS NOTED ON FLOOR PLAN. PRESSURE DIFFERENTIAL ACROSS CLOSED DOORS SHALL BE LIMITED TO .01 INCH WC (2.5 PASCALS) OR LESS.
3. RESTROOM VENT FANS SHALL PROVIDE 50 CFM MINIMUM OF VENTILATION.
4. VENT FANS SHALL BE DUCTED TO THE EXTERIOR AND TERMINATE AT AN APPROVED VENT CAP.
5. IF THIS BUILDING IS LOCATED IN A JURISDICTION THAT HAS ADOPTED THE ORDINANCE FOR RADON-RESISTANT CONSTRUCTION, RULE -9B-52, FLORIDA STATUTE 553.98, RETURN DUCTS AND PLENUMS SHALL NOT BE LOCATED IN THE CRAWL SPACES.

RIDGE BEAM CONSTRUCTION NOTES

1. LVL F_b = 2800 PSI, MOE = 2,000,000 PSI., MICROLLAM 2.0 SP OR BETTER.
2. LVL OR OTHER SIMILAR MATERIAL MUST BE CONTINUOUS OVER CLEARSPAN(S).
3. BEAMS SUPPORTED BY ENDWALL COLUMNS MUST EXTEND CONTINUOUS OVER COLUMNS TO EXTERIOR FACE OF ENDWALL
4 INSTALL (2x4) x 20" SPF #3 RIDGE BEAM BEARING STIFFENER OVER SUPPORT COLUMNS WHEN SPECIFIED ON FLOOR PLAN: FASTEN THE FACE OF THE STIFFENER TO THE RIDGE BEAM WITH 100% GLUE COVERAGE AND 8-15 ga x 2 1/2" STAPLES

ELECTRICAL NOTES: 2008 NEC

1. ALL CIRCUITS AND EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE APPROPRIATE ARTICLES OF THE NATIONAL ELECTRICAL CODE (NEC).
2 WHEN LIGHT FIXTURES ARE INSTALLED IN CLOSETS THEY SHALL BE SURFACE MOUNTED OR RECESSED. INCANDESCENT FIXTURES SHALL HAVE COMPLETELY ENCLOSED LAMPS SURFACE MOUNTED INCANDESCENT FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 12 INCHES AND ALL OTHER FIXTURES SHALL HAVE A MINIMUM CLEARANCE OF 6 INCHES FROM "STORAGE AREA" AS DEFINED BY NEC 410-8(a)
3. WHEN WATER HEATERS ARE INSTALLED THEY SHALL BE PROVIDED WITH READILY ACCESSIBLE DISCONNECTS ADJACENT TO THE WATER HEATERS SERVED THE BRANCH CIRCUIT SWITCH OR CIRCUIT BREAKER SHALL BE PERMITTED TO SERVE AS THE DISCONNECTING MEANS ONLY WHERE THE SWITCH OR CIRCUIT BREAKER IS WITHIN SIGHT FROM THE WATER HEATER OR IS CAPABLE OF BEING LOCKED IN THE OPEN POSITION
4 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.
5. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM THE INTERRUPTING RATING OF THE MAIN BREAKER MUST BE DESIGNED AND VERIFIED AS BEING IN COMPLIANCE WITH SECTION 110-9 OF THE NEC BY LOCAL ELECTRICAL CONSULTANT.
6 THE MAIN ELECTRICAL PANEL AND FEEDERS ARE DESIGNED BY OTHERS, SITE INSTALLED AND SUBJECT TO LOCAL JURISDICTION APPROVAL
7 ALL CIRCUITS CROSSING OVER MODULE MATING LINE(S) SHALL BE SITE CONNECTED WITH APPROVED ACCESSIBLE JUNCTION BOXES, OR CABLE CONNECTORS.
8. ALL OUTLETS LOCATED WITHIN 6 FEET OF A SINK OR BASIN SHALL BE EQUIPPED WITH GFCI PROTECTION
9 SMOKE DETECTORS SHALL BE WIRED SO THAT THE OPERATION OF ANY ONE SMOKE DETECTOR WILL CAUSE SIMULTANEOUS ACTIVATION OF ALL OTHERS (IN ANY ONE DWELLING UNIT).
10 PROVIDE COMBINATION SMOKE/CARBON MONOXIDE DETECTORS WHEN ANY FOSSIL FUEL APPLIANCES, FIRE PLACES OR ATTACHED GARAGE ARE PROVIDED. (FLORIDA 9B-3.0472)
11 ALL RECEPTACLES INSTALLED IN WET LOCATIONS (EXTERIOR) SHALL BE IN WEATHER PROOF (WP) ENCLOSURES, THE INTEGRITY OF WHICH IS NOT AFFECTED WHEN AN ATTACHMENT PLUG CAP IS INSERTED OR REMOVED.
12 ALL BRANCH CIRCUITS SUPPLYING 15 AND 20 AMPERE OUTLETS IN ALL AREAS EXCEPT KITCHENS AND BATHROOMS ARE PROTECTED BY AN ARC- FAULT CIRCUIT INTERRUPTER IN ACCORDANCE WITH SECTION 210.12.2008 NEC.
13 PROVIDE TAMPER RESISTANT RECEPTACLES IN ACCORDANCE WITH SECTION 406 11. 2008 NEC.

PLUMBING NOTES: 2010 FLORIDA RESIDENTIAL BUILDING CODE

1 ALL PLUMBING FIXTURES SHALL HAVE SEPARATE SHUT-OFF VALVES
2 WATER HEATER SHALL HAVE SAFETY PAN WITH 1 INCH DRAIN TO EXTERIOR, T & P RELIEF VALVE WITH DRAIN TO EXTERIOR, AND A SHUT OFF VALVE WITHIN 3 FEET ON A COLD WATER SUPPLY LINE
3. WATER PIPES INSTALLED IN A WALL EXPOSED TO THE EXTERIOR SHALL BE LOCATED ON THE HEATED SIDE OF THE WALL INSULATION WATER PIPING INSTALLED IN AN UNCONDITIONED ATTIC SHALL BE INSULATED WITH AN INSULATION OF R-6.5 MINIMUM.
4. DWV SYSTEM SHALL BE PVC - DWV.
5 WATER SUPPLY LINES SHALL BE PEXWITH THE MAXIMUM WATER HEATER TEMPERATURE SETTING IS 180° F. THE PEX PIPE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS LIMITATIONS AND INSTRUCTIONS.
6. BUILDING DRAIN AND CLEANOUTS ARE DESIGNED AND SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL JURISDICTION APPROVAL.
7 TUB ACCESS PROVIDED UNDER HOME, UNLESS OTHERWISE NOTED
8. SHOWER STALLS SHALL BE COVERED WITH NON-ABSORBENT MATERIAL TO A HEIGHT OF 72 INCHES ABOVE FINISH FLOOR.
9 SHOWERS SHALL BE CONTROLLED BY AN APPROVED MIXING VALVE WITH A MAXIMUM WATER OUTLET TEMPERATURE OF 120° F. (48 8° C)
10. THERMAL EXPANSION DEVICE, IF REQUIRED BY WATER HEATER MANUFACTURER SHALL BE SITE INSTALLED BY OTHERS, SUBJECT TO LOCAL APPROVAL.
11. A WATER HAMMER ARRESTOR SHALL BE INSTALLED WHERE QUICK-CLOSING VALVES ARE UTILIZED, UNLESS OTHERWISE APPROVED WATER HAMMER ARRESTORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS
12. THIS UNIT MUST BE CONNECTED TO PUBLIC WATER SUPPLY AND SEWER SYSTEM IF THESE ARE AVAILABLE.

FOUNDATION:

FOUNDATION IS DESIGNED BY OTHERS DETAILS CONTAINED IN THESE TYPICAL DRAWINGS ARE SUPPLEMENTAL AND MUST BE EVALUATED BY FOUNDATION DESIGNER FOR COMPATIBILITY WITH THE FOUNDATION DESIGN.

CHAMPION
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LISTING AGENCY APPROVAL
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OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	130 MPH V_{ult} / 101 MPH V_{asd}
FIRE RATING OF EXT. WALLS	0
PLAN NO.	2425-0266F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	8-20-12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

IRC MJR-261

Third Party:
Hilborn, Werner, Carter and Associates (HWC)
1627 South Myrtle Ave.
Clearwater Florida 33756

TITLE:
GENERAL NOTES

MODEL.
261-C643
Ref: 0664M1-0

DATE 07-31-12

DRAWN BY: GAT

REVISED:

REVISIONS

SHEET NO:
GE-101

2425-0266F

ELECTRICAL SCHEDULE

BRKR.	NO.	NOMENCLATURE	VOLTS	WIRE CU. NM
20	1	PORTABLE APPLIANCE	120	12/2 GFCI / AFCI
20	2	PORTABLE APPLIANCE	120	12/2 GFCI / AFCI
20	3	GFCI RECEPTACLES	120	12/2 GFCI
15	4	GENERAL LIGHTING	120	14/2 AFCI
15	5	GENERAL LIGHTING	120	14/2 AFCI
15	6	GENERAL LIGHTING	120	14/2 AFCI
15	7	GENERAL LIGHTING	120	14/2 AFCI
15	8	GENERAL LIGHTING	120	14/2 AFCI
15	9	GENERAL LIGHTING	120	14/2 AFCI
15	10	SPARE	120	14/2 AFCI
30 (2P)	11	WATER HEATER	240	10/2
20	12	WASHER	120	12/2
30 (2P)	13	DRYER	240	10/3
20	14	DISHWASHER	120	12/2
40 (2P)	15	RANGE	240	8/3
40 (2P)	16	COOK TOP	240	8/3
20 (2P)	17	BUILT-IN OVEN (SINGLE)	240	12/3
40 (2P)	17	BUILT-IN OVEN (DOUBLE)	240	8/3
20	18	GARBAGE DISPOSAL	120	12/2
	19	HVAC COMPRESSOR	SIZED PER MFR. SPECS.	
	20	HVAC BLOWER	SIZED PER MFR. SPECS.	
15	21	SMOKE DETECTOR	120	14/3 AFCI
20	22	WHIRLPOOL TUB	120	12/2 GFI
20	23	FREEZER	120	12/2
20	24	MICROWAVE	120	12/2

PANEL SIZING

DESCRIPTION	KVA
FLOOR AREA 1,914 SF X 3 VA ÷ 1000 =	5.74
2 SMALL APPLIANCES AT 1500 VA. ÷ 1000 =	3 0
BUILT-IN OVEN AT 3.6 KW SINGLE =	
BUILT-IN OVEN AT 8.8 KW. DOUBLE =	
COUNTER MOUNTED COOK TOP AT 7.4 KW =	
RANGE AT 8.0 KW. =	8 0
WATER HEATER AT 5.5 KW =	5 5
OPT. DISHWASHER AT 1.4 KW. =	1.4
WASHER AT 1500 VA./1000 =	1.5
DRYER AT 5.0 KW. =	5 0
OPT. FREEZER AT 1.9 KW. =	1.9
OPT. GARBAGE DISPOSAL AT 1.9 KW. =	1.9
OPT. WHIRLPOOL TUB AT 1.2 KW. =	1.2
OPT. MICROWAVE AT 1.5 KW. =	1 5
TOTAL LOAD	36.64
FIRST 10 KVA AT 100%	10 0
REMAINDER AT 40%	10.66
HVAC AT 100%	15.8
TOTAL =	36.46
TOTAL X 1000 / 240	151.90
INSTALL 200 AMP PANEL	
WITH 200 AMP MAIN BREAKER	

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LISTING AGENCY APPROVAL

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CONST TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	130 MPH V_{ult} / 101 MPH V_{asd}
FIRE RATING OF EXT WALLS	0
FLAN NO.	2426-0266F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	8-20-12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

HWC MAR-001

Third Party
Hilborn Werner Carter and Associates (HWC)
1627 South Myrtle Ave.
Clearwater Florida 33756

TITLE.
ELECTRIC PANEL

MODEL.
261-C643
Ref 0664M1-0

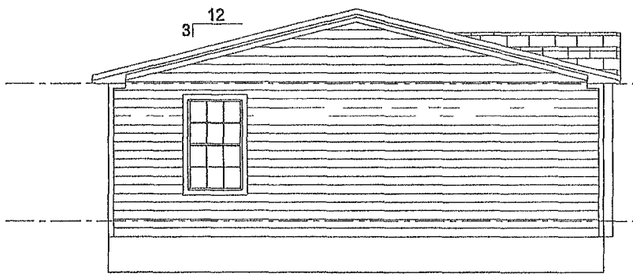
DATE 07-31-12

DRAWN BY GAT

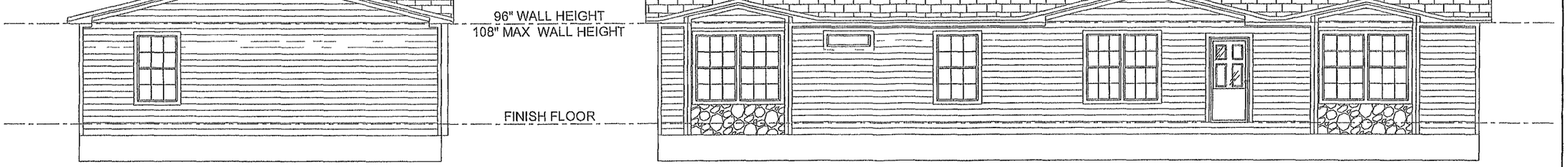
REVISED

REVISIONS

SHEET NO
GE-102

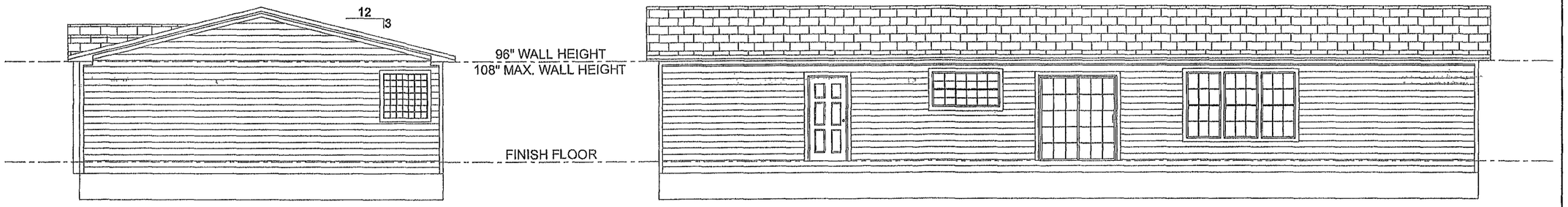


LEFT ELEVATION



FRONT ELEVATION

RIGHT ELEVATION



REAR ELEVATION

ELEVATION NOTES:

NOTE: UNDERPINNING AND STOOPS ON SITE
BY OTHERS TYPICAL ONLY

FOUNDATION ENCLOSURE MUST HAVE 1-SQUARE FOOT NET VENT AREA 1/150th OF THE FLOOR AREA, AND A 18"x24" MINIMUM CRAWL SPACE ACCESS, SITE INSTALLED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION.

STAIR(S) AND HANDRAILS ARE SITE INSTALLED, DESIGNED BY OTHERS AND SUBJECT TO LOCAL JURISDICTION

DRAWINGS MAY NOT DEPICT ACTUAL PRODUCT - OPTIONS MAY VARY

** IF WINDOW SILLS ARE LESS THAN 24" ABOVE FINISHED FLOOR AND OVER 7' ABOVE GRADE WINDOW GUARDS ARE REQUIRED. (R613.2 EXC. 2.)

CHAMPION
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LAKE CITY, FL 32056

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PHILLIP J COPELAND LICENSE No. 67942 STATE OF FLORIDA PROFESSIONAL ENGINEER

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CONST TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	130 MPH V_{ult} / 101 MPH V_{asd}
FIRE RATING OF EXT WALLS	0
PLAN NO.	2425-0266F
ALLOW FLOOR LOAD	40
APPROVAL DATE	9.20.12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

HWC MUR-251

Third Party
Hilborn, Werner Carter and Associates (HWC)
1627 South Myrtle Ave.
Clearwater, Florida 33756

TITLE.
ELEVATIONS

MODEL
261-C643
Ref: 0664M1-0

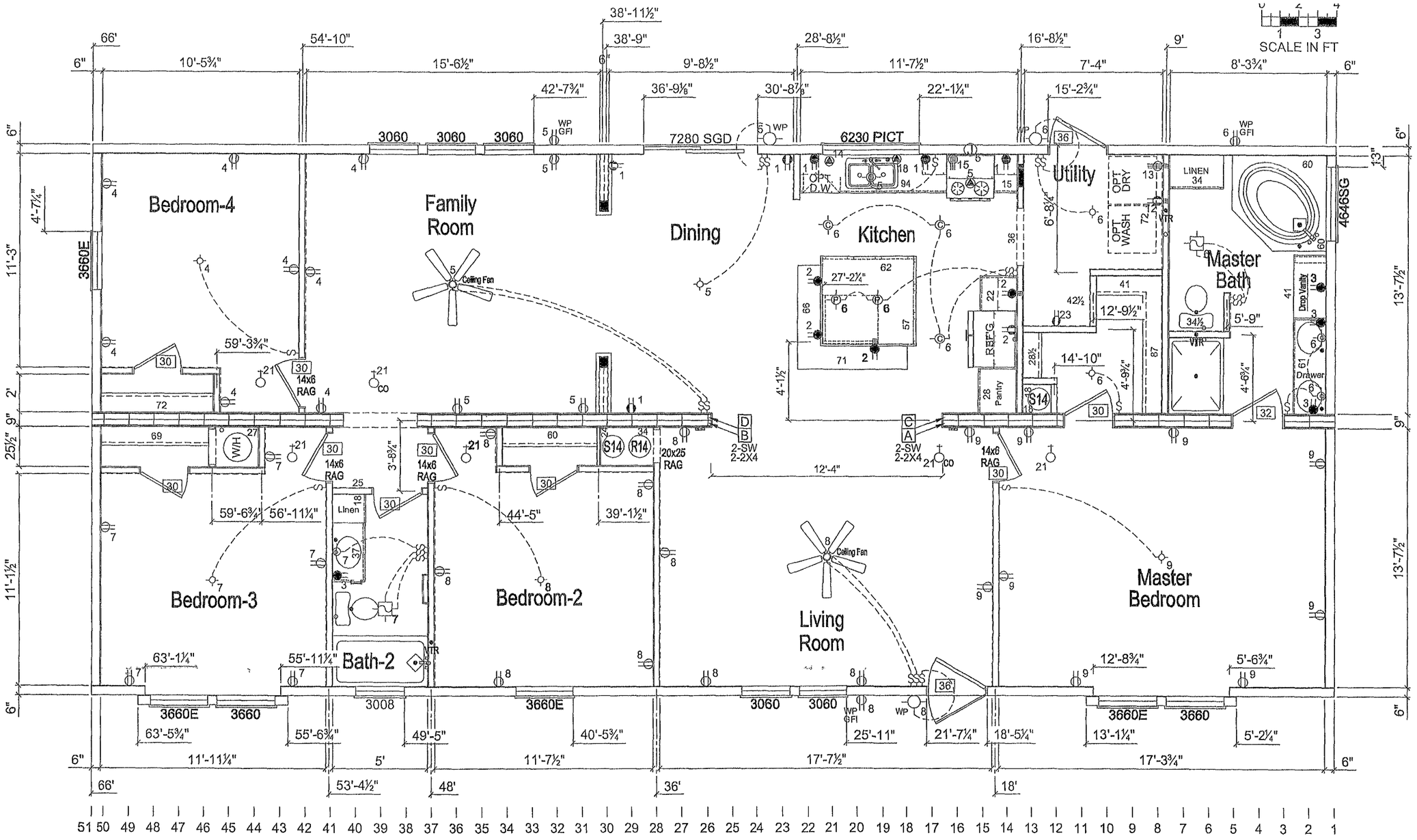
DATE 07-31-12

DRAWN BY: GAT

REVISED:

REVISIONS

SHEET NO
EV-101



ELECTRICAL LEGEND

GENERAL LIGHTING RECEPTACLE 120 VOLT - 15 AMP	240 VOLT RECEPTACLE	CEILING VENT FAN WITH LIGHT	CEILING VENT FAN
G.F.I. PROTECTED RECEPTACLE 120 VOLT - 15 AMP	THERMOSTAT	CEILING LIGHT	FLUORESCENT LIGHT
Small Appl & or Gen Lighting Recept 120 VOLT - 20 AMP	SMOKE ALARM	WALL LIGHT	SINGLE POLE SWITCH (3 DENOTES 3-WAY)
G.F.I. PROTECTED RECEPTACLE 120 VOLT - 20 AMP	MAIN PANEL	SPECIAL PURPOSE CONNECTION	
JUNCTION BOX	COMBINATION CARBON MONOXIDE/SMOKE ALARM	PE DENOTES PHOTO-ELECTRIC	
CAN LIGHT (FLUSH WITH CEILING AND WP WITHIN 3'-0" OF TUBS AND SHOWERS or EXT LOCATION)			

NOTE: - POWER RANGE HOOD STANDARD
- *ALL EXTERIOR RECEPTS AND LIGHTS ARE WEATHER PROOF*
- CIRCUIT NUMBERS MAY VARY AND NOT ALL CIRCUITS ARE IN USE
CIRCUITS 1& 2 ARE SMALL APPLIANCE CIRCUITS

ADDITIONAL HINGED ROOF DETAILS MUST BE INCLUDED WHEN HOME IS BUILT WITH HINGED ROOF. IF WINDOW SILLS ARE LESS THAN 24" ABOVE FINISHED FLOOR AND OVER 7' ABOVE GRADE WINDOW GUARDS ARE REQUIRED

NOTES:
1 ALL INTERIOR PASSAGE DOORS TO BE A MIN $2\frac{4}{8}$ X $6\frac{8}{0}$ UNLESS OTHERWISE NOTED
2 HOME MAY BE BUILT IN MIRROR IMAGE

INTERIOR FINISH MATERIAL

CEILING - 1/2" MINIMUM GYPSUM BOARD INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
WALL - 1/2" MIN GYPSUM BOARD INSTALLED PER MANUFACTURER'S SPECIFICATIONS
FLOOR - BLOCK TILE OR LINOLEUM MAY BE USED IN WET AREAS CARPET, BLOCK TILE, OR LINOLEUM MAY BE INSTALLED IN ALL OTHER AREAS

NOTE 1 ALL COLUMN STUDS TO BE #3 SPF AND SHALL BE GLUED & NAILED TOGETHER
2 COLUMN STUDS SHALL NOT BE NOTCHED OR BORED.
3 INSTALL SW STRAP ON EACH STUD OF EACH COLUMN 1-S20 STRAP MAY REPLACE SW STRAP AT FLOOR
4 MARRIAGE WALL STRAPPING REQ'D 16" O C

RIDGE BEAM

Material Microllam· 1 1/2" x 9 1/4"
For Spans A to B, C to D

CHAMPION
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OCCUPANCY	R-3
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WIND VELOCITY	130 MPH Vult / 101 MPH Vasd
FIRE RATING OF EXT WALLS	0
PLAN NO.	2425-0266F
ALLOW FLOOR LOAD	40
APPROVAL DATE	8-20-12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

IWC MUR-281

Third Party· Hilborn, Werner Carter and Associates (HWC) 1627 South Myrtle Ave. Clearwater, Florida 33756

TITLE
FLOOR PLAN

MODEL
261-C643
Ref· 0664M1-0

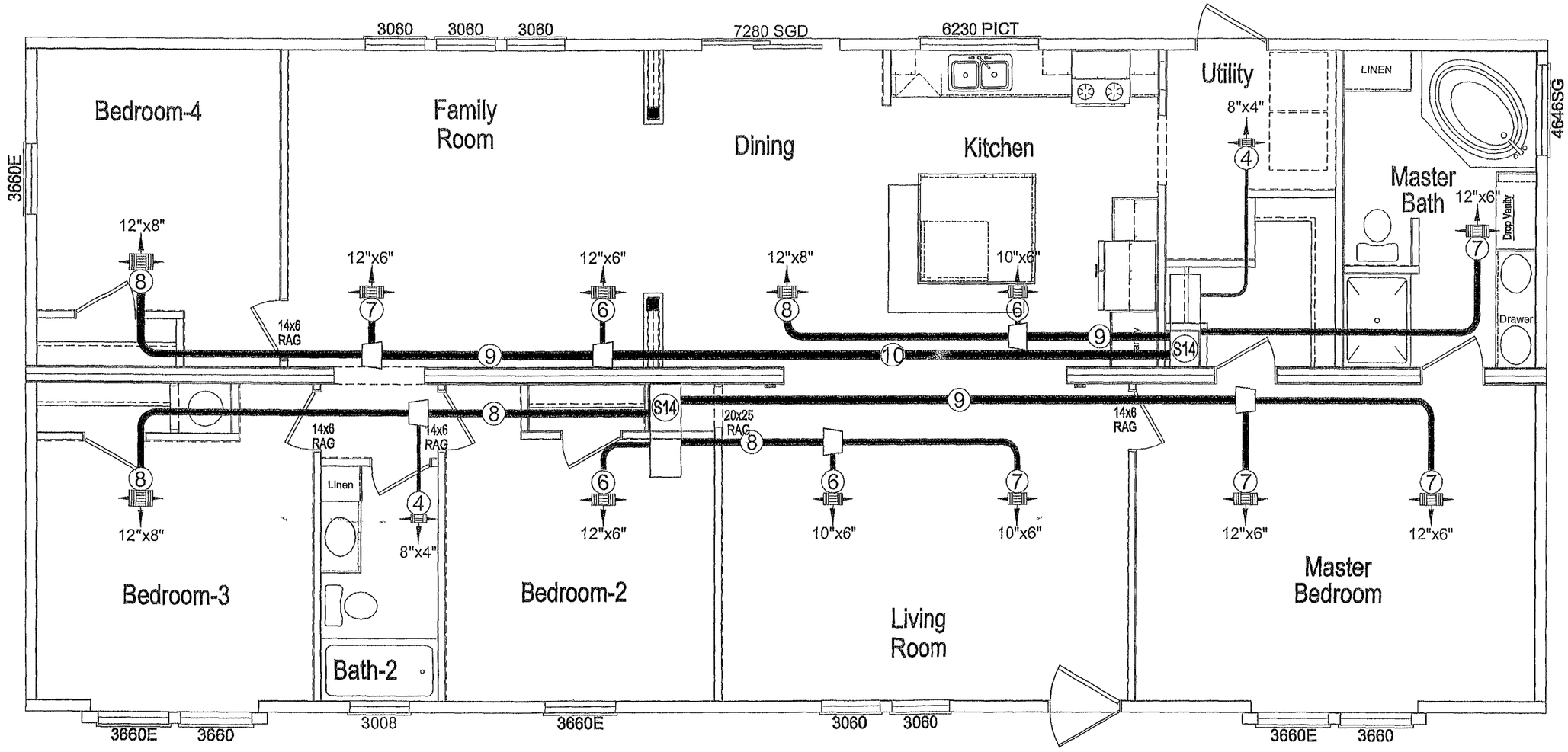
DATE 07-31-12

DRAWN BY· GAT

REVISED·

REVISIONS

SHEET NO·
AP-101



NOTICE

CROSSOVER DUCTS MAY BE LOCATED IN THE CEILING.

IF THIS BUILDING IS LOCATED IN A JURISDICTION THAT HAS ADOPTED THE ORDINANCE FOR RADON-RESISTANT CONSTRUCTION, RULE -9B-52, FLORIDA STATUTE 553.98, RETURN DUCTS

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WIND VELOCITY	130 MPH V_{3s} / 101 MPH V_{asd}
FIRE RATING OF EXT WALLS	0
PLAN NO.	2425-0266F
ALLOW FLOOR LOAD	40
APPROVAL DATE	7-20-12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

HWC MUR-251

Third Party
Hilborn, Warner, Carter and Associates (HWC)
1627 South Myrtle Ave.
Clearwater Florida 33756

TITLE
MECHANICAL FLOOR

MODEL
261-C643
Ref: 0664M1-0

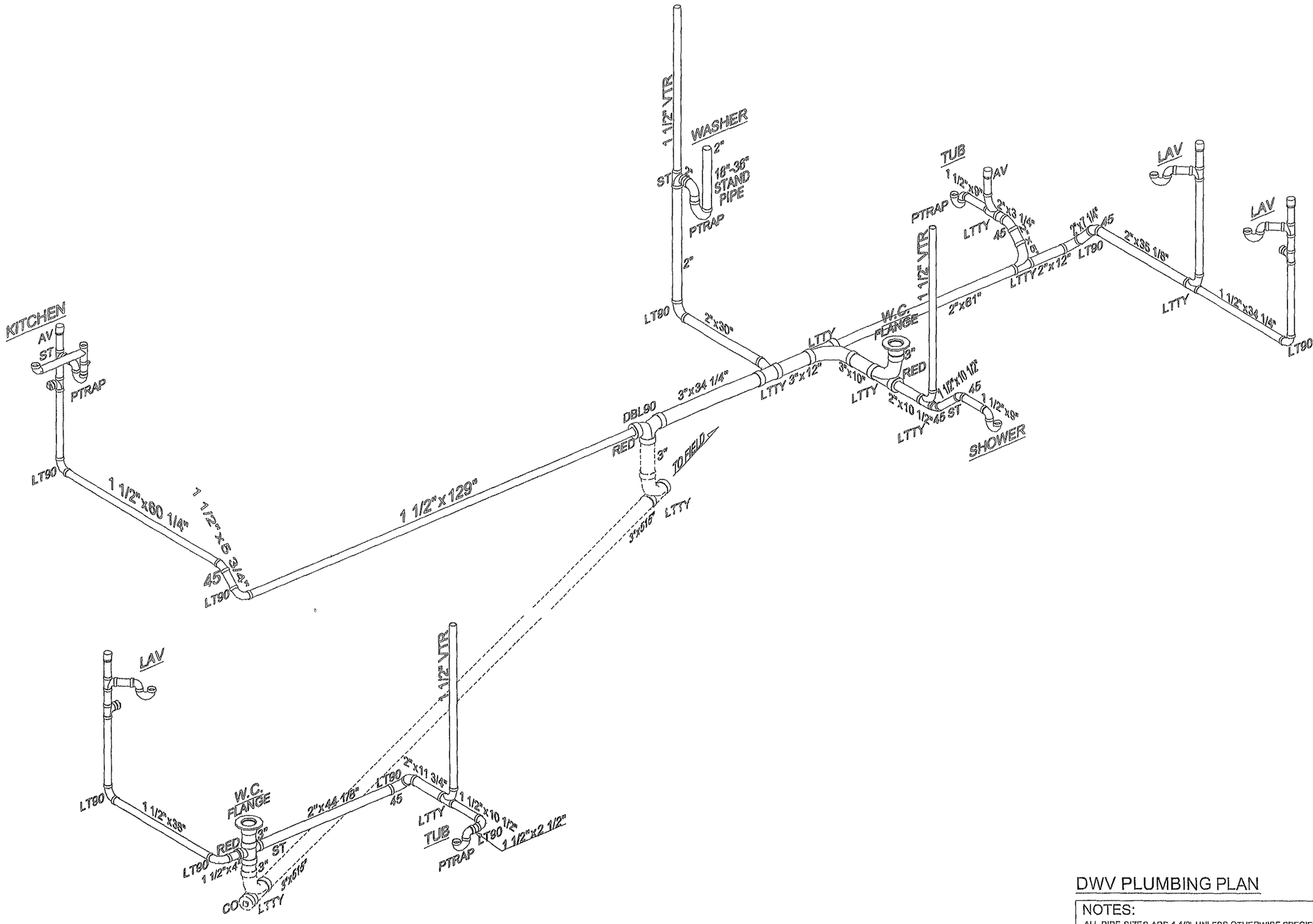
DATE 07-31 12

DRAWN BY: GAT

REVISED:

REVISIONS

SHEET NO:
ME-101



DWV PLUMBING PLAN

NOTES:
- ALL PIPE SIZES ARE 1 1/2' UNLESS OTHERWISE SPECIFIED

CHAMPION
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MMR-261

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DWV PLUMBING

MODEL.

261-C643
Ref: 0664M1-0

DATE. 07-31-12

DRAWN BY: GAT

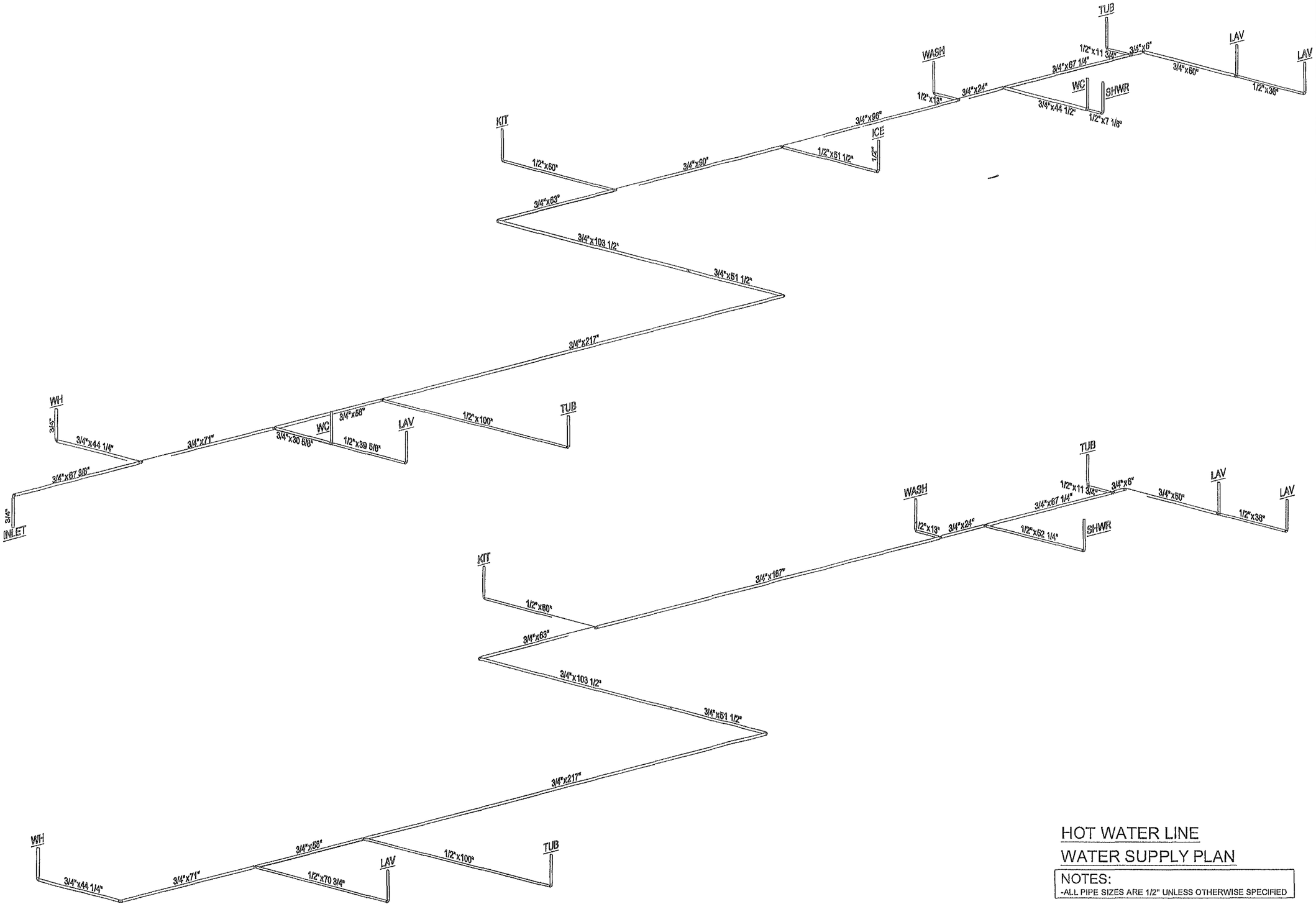
REVISED:

REVISIONS

SHEET NO

PP-101

COLD WATER LINE



HOT WATER LINE
WATER SUPPLY PLAN

NOTES:
-ALL PIPE SIZES ARE 1/2" UNLESS OTHERWISE SPECIFIED

CHAMPION
P O BOX 2097 HWY 100 EAST
LAKE CITY, FL 32056

PHILLIP COPELAND, P.E
DIRECTOR OF MODULAR ENGINEERING
755 WEST BIG BEAVER ROAD
SUITE 1000
TROY MI 39756
OFFICE 248-614-8343
FAX 248-273-4282

PHILLIP J COPELAND LICENSE No. 67942 STATE OF FLORIDA PROFESSIONAL ENGINEER

LISTING AGENCY APPROVAL

THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA.

CONST TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	130 MPH Vult / 101 MPH Vasd
FIRE RATING OF EXT WALLS	0
PLAN NO.	2425-0266F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	8 20 12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

MIR-261

Third Party
Hilborn Werner, Carter and Associates (HWC)
1627 South Myrtle Ave.
Clearwater Florida 33756

TITLE.
FLOOR
WATER LINES

MODEL.
261-C643
Ref: 0664M1-0

DATE. 07-31-12

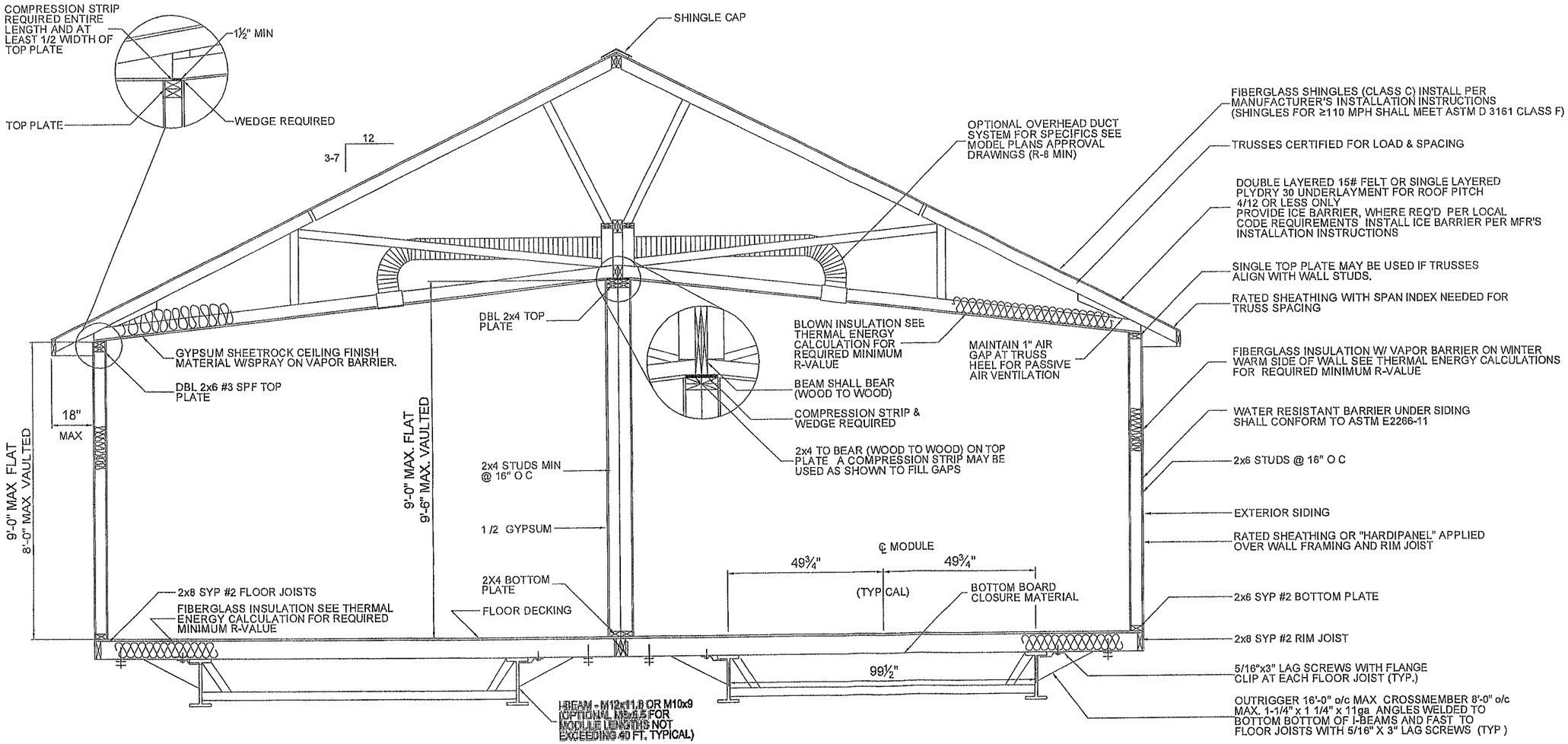
DRAWN BY GAT

REVISED·

REVISIONS

SHEET NO·
WP-101

NOTE COMPRESSION STRIP SHALL BE RATED SHEATHING i e PLYWOOD OR OSB WEDGE SHALL BE RIPPED LUMBER #3 SPF OR BETTER



COMPLETE FOUNDATION DESIGN
IS TO BE DONE BY A LICENSED ENGINEER

CHAMPION
P O BOX 2097 HWY 100 EAST
LAKE CITY, FL 32056

PHILLIP COPELAND, P E.
DIRECTOR OF MODULAR ENGINEERING
755 WEST BIG BEAVER ROAD
SUITE 1000
TROY MI 33756
OFFICE 248-614-8343
FAX 248-273-4282

PHILLIP J COPELAND LICENSE No. 67942 STATE OF FLORIDA PROFESSIONAL ENGINEER

LISTING AGENCY APPROVAL

THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA.

CONST TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	130 MPH Vult / 101 MPH Vasd
FIRE RATING OF EXT WALLS	0
PLAN NO.	2425-0266F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	8-22-12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

HWC MUR-261

Third Party
Hilborn, Werner Carter and Associates (HWC)
1627 South Myrtle Ave.
Clearwater Florida 33756

TITLE
TYPICAL ON FRAME CROSS-SECTION

MODEL.
261-C643
Ref: 0664M1-0

DATE 07-31-12

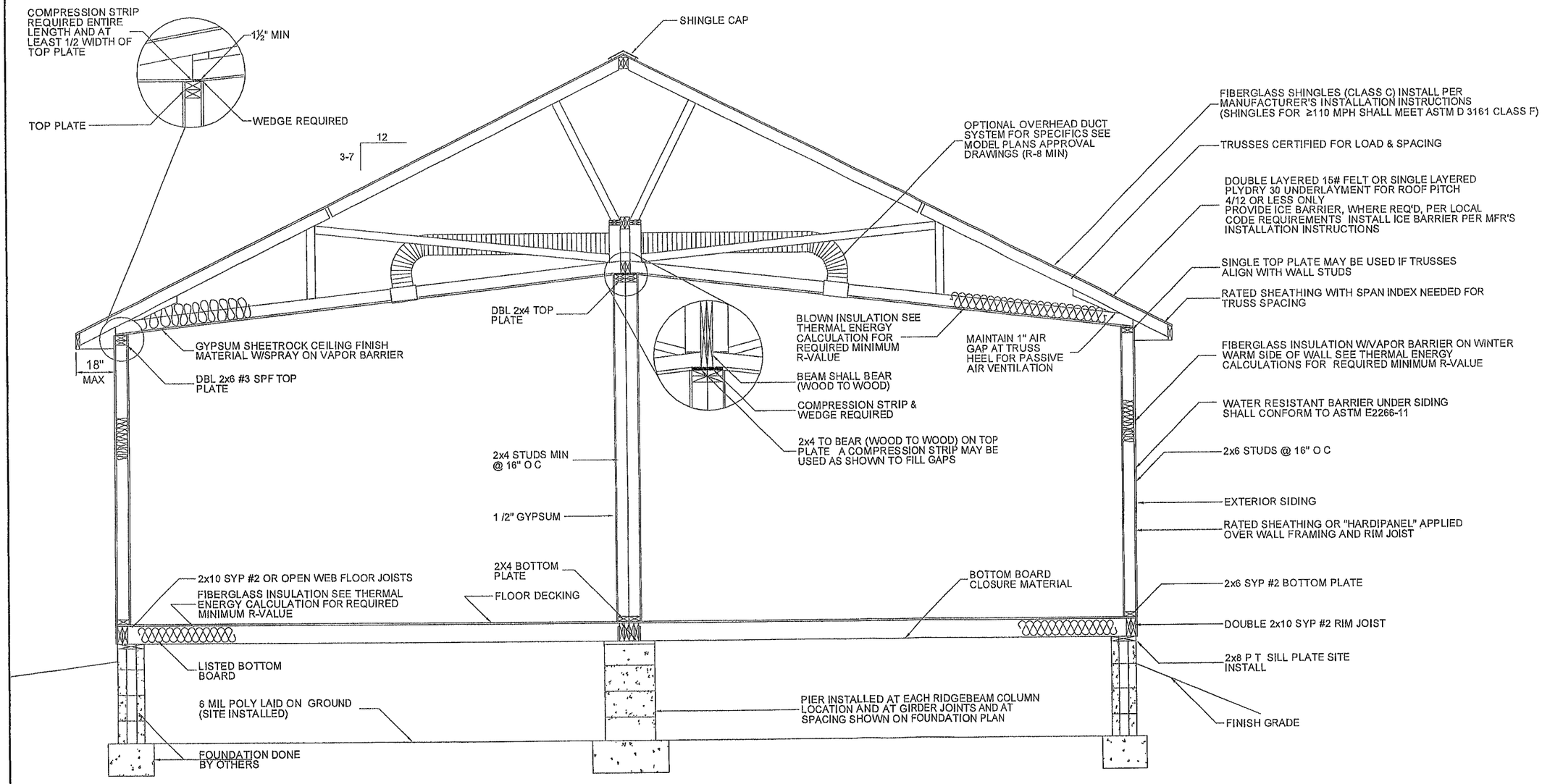
DRAWN BY- GAT

REVISED

REVISIONS

SHEET NO
SE-101

NOTE COMPRESSION STRIP SHALL BE RATED SHEATHING i e PLYWOOD OR OSB WEDGE SHALL BE RIPPED LUMBER #3 SPF OR BETTER



FOR EXTERIOR WALL AND CENTER LINE
PIERS SEE TYPICAL FOUNDATION.

NOTES:

1. JOINTS IN CENTERLINE JOIST TO FALL OVER PIERS.
2. ATTIC VENTILATION TO BE PROVIDED AT THE RATE OF 1.0 SF OF VENT PER 300 SF OF ATTIC AREA. VENTILATION TO BE PROVIDED BY MEANS OF CONTINUOUS EAVE VENTS, ROOF VENTLATORS ON THE HIGH SIDE OF THE ROOF, AND WHEN NEEDED GABLE EAVE VENTS.

BELOW IS FOR REFERENCE ONLY
COMPLETE FOUNDATION DESIGN
IS TO BE DONE BY A LICENSED ENGINEER

CHAMPION
P O BOX 2097 HWY 100 EAST
LAKE CITY, FL 32056

PHILLIP COPELAND P.E.
DIRECTOR OF MODULAR ENGINEERING
755 WEST BIG BEAVER ROAD
SUITE 1000
TROY MI 33756
OFFICE 248-614-8343
FAX. 248-273-4282

PHILLIP J COPELAND LICENSE No. 67942 STATE OF FLORIDA PROFESSIONAL ENGINEER

LISTING AGENCY APPROVAL

THESE PRINTS COMPLY WITH THE FLORIDA MANUFACTURED BUILDING ACT OF 1979 CONSTRUCTION CODE AND ADHERE TO THE FOLLOWING CRITERIA.

CONST TYPE	VB
OCCUPANCY	R-3
ALLOWABLE NO. OF FLOORS	1
WIND VELOCITY	130 MPH Vult/ 101 MPH Vasd
FIRE RATING OF EXT WALLS	0
PLAN NO.	2428-0008F
ALLOW. FLOOR LOAD	40
APPROVAL DATE	8-20-12
MANUFACTURER	Champion Home Builders
HIGH VELOCITY HURRICANE ZONE	NO

IWC MUR-261

Third Party:
Hilborn, Werner Carter and Associates (HWC)
1627 South Myrtle Ave.
Clearwater Florida 33756

TITLE:
TYPICAL OFF FRAME CROSS-SECTION

MODEL:
261-C643
Ref: 0664M1-0

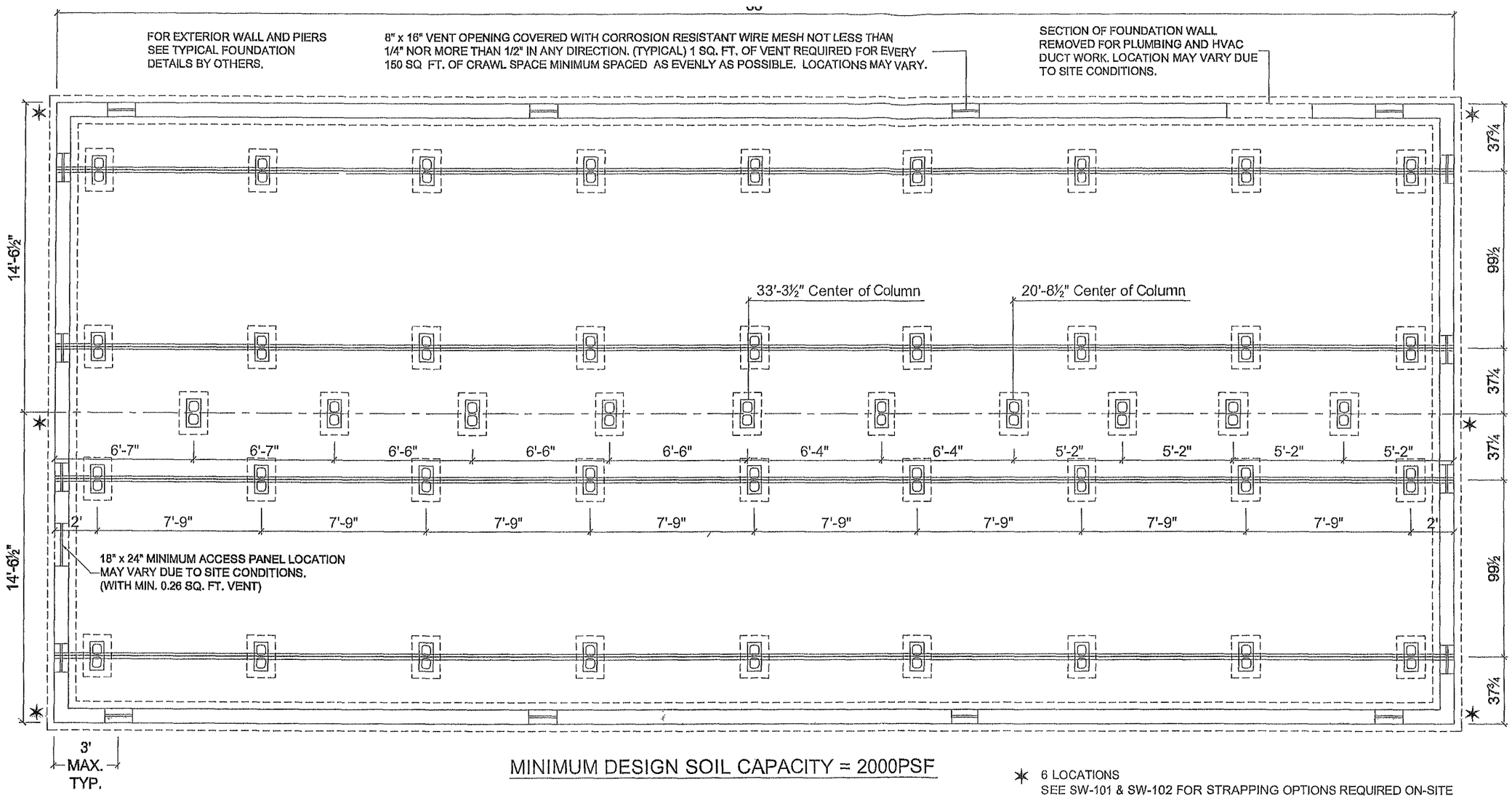
DATE 07-31-12

DRAWN BY: GAT

REVISED:

REVISIONS

SHEET NO:
SE-102



MINIMUM DESIGN SOIL CAPACITY = 2000PSF

✶ 6 LOCATIONS
SEE SW-101 & SW-102 FOR STRAPPING OPTIONS REQUIRED ON-SITE

FOUNDATION NOTES

1. THIS FOUNDATION PLAN IS PROVIDED FOR REFERENCE AS A TYPICAL STANDARD. ACTUAL FOUNDATION CONDITIONS MUST BE EVALUATED FOR APPLICABILITY IF THIS PLAN IS TO BE USED. ALTERNATE FOUNDATION PLANS MAY BE DESIGNED BY OTHERS IN ACCORDANCE WITH THE REQUIREMENTS OF THE JURISDICTION HAVING AUTHORITY. IF FOUNDATION PLANS ARE DESIGNED BY OTHERS, THE ENGINEER OF THE BUILDING PLANS SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR THE FOUNDATION DESIGN AND THE CONSEQUENTIAL PERFORMANCE OF THE SUPERSTRUCTURE'S STRUCTURAL COMPONENTS AND SYSTEMS RELATED THERETO.
2. ALL FOUNDATION CONSTRUCTION MATERIALS AND INSTALLATION SHALL BE IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES.
3. EXCAVATE AN ADDITIONAL 1 TO 2 INCHES AT BOTTOM AND SIDES OF ALL FOOTINGS THAT ARE POURED DIRECTLY AGAINST EARTH.
4. ALL PIERS SHALL BE CONSTRUCTED OF 8" X 8" X 16" NOMINAL STANDARD WEIGHT CONCRETE MASONRY UNITS LAID IN RUNNING BOND PATTERN AND CONFORMING TO ASTM C90 HAVING A UNIT COMPRESSIVE STRENGTH OF 1900 PSI (f'm = 1500 PSI). MASONRY UNITS SHALL BE FULLY LAID IN TYPE M OR S MORTAR OR COVERED WITH SURFACE BONDING CEMENT COMPLYING WITH ASTM C887 AND APPLIED IN STRICT ACCORDANCE WITH THE CEMENT MANUFACTURER'S INSTRUCTIONS, WITH THE BOTTOM COARSE FULLY LAID IN TYPE M OR S MORTAR. REINFORCEMENT BARS AND PIER FOOTINGS SHALL BE DESCRIBED ON THE FOUNDATION PLAN AND IN THE PIER DETAILS.
5. CONCRETE SHALL BE STANDARD WEIGHT (150 PCF) WITH A MINIMUM COMPRESSIVE STRENGTH 3000 PSI AT 28 DAYS. MORTAR SHALL COMPLY WITH ASTM C270. GROUT SHALL COMPLY WITH ASTM C476 AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2500 PSI.
6. ALL REINFORCEMENT BARS SHALL COMPLY WITH ASTM A615, GRADE 60. REINFORCEMENT BARS SHALL BE UNCOATED DEFORMED BARS (NO EPOXY). REINFORCEMENT BARS SHALL BE EQUALLY SPACED AND PLACED WITH 3" CLEARANCE FROM BOTTOM AND SIDES OF THE FOOTING. AT SPLICES LAP ALL #4 BARS 24 INCHES MINIMUM AND LAP ALL #5 BARS 30 INCHES MINIMUM. OFF SET ALL SPLICES 30 INCHES MINIMUM.
7. ALL PIERS SHALL BE CAPPED WITH 4 INCHES OF SOLID MASONRY OR CONCRETE OR THE CAVITIES OF THE TOP COURSE SHALL BE FILLED WITH CONCRETE OR GROUT. PIERS SHALL PROVIDE A TRUE AND EVEN BEARING SURFACE.
8. THE CENTERLINE OF EACH PIER SHALL BE LOCATED DIRECTLY BELOW THE MATE LINE CENTERLINE WITH 1 INCH MAXIMUM TOLERANCE.
9. SOIL BEARING CAPACITY IS ASSUMED TO BE 2000 PSF MINIMUM. IF THE ACTUAL SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, THE ENGINEER MUST BE CONSULTED FOR REQUIRED ALTERNATE FOUNDATION DESIGN. FOOTINGS SHALL BE PLACED ON NON-EXPANSIVE SOILS ONLY IT IS THE RESPONSIBILITY OF THE SITE OR AHJ CONTRACTOR TO OBTAIN PROFESSIONAL VERIFICATION OF THE SOIL BEARING CAPACITY FOR THE ACTUAL SITE.
10. THE AREA UNDER FOOTINGS AND FOUNDATIONS SHALL HAVE ALL VEGETATION, STUMPS, ROOTS, AND FOREIGN MATERIALS REMOVED PRIOR TO THEIR CONSTRUCTION.
11. THE PERIMETER GRADE SHALL BE SLOPED AWAY FROM THE BUILDING TO PROVIDE POSITIVE DRAINAGE. THE GRADE OF THE GROUND UNDER THE BUILDING SHALL NOT BE LOWER THAN THE LOWEST SURROUNDING FINISHED LOT AREA GRADE IN ORDER TO PREVENT THE ACCUMULATION AND STANDING OF WATER UNDER THE BUILDING.
12. ALL STAIRS, RAMPS, DECKS AND OTHER SITE WORK NOT SHOWN ON THESE DRAWINGS ARE DESIGNED BY OTHERS AND SUBJECT TO THE APPROVAL OF THE JURISDICTION HAVING AUTHORITY.
13. TERMITE PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH THE APPLICABLE CODES WHEN REQUIRED BY SUCH CODES.
14. THE FOUNDATION DIMENSIONS SHOWN INCLUDE AN INCREASE IN MODULE WIDTH DUE TO MODULE EXPANSION, SETTING TOLERANCES, ETC. THE FOUNDATION CONTRACTOR SHOULD CONSULT WITH THE MANUFACTURER OF THE MODULES PRIOR CONSTRUCTION OF THE FOUNDATION TO DETERMINE THE APPROPRIATE AMOUNT OF INCREASED WIDTH TO BE ADDED TO THE NOMINAL DIMENSIONS SHOWN ON THE FOUNDATION PLAN.
15. THIS FOUNDATION IS NOT DESIGNED FOR LOCATION IN A FLOOD ZONE.
16. GROUND SURFACE IN CRAWLSPACE SHALL BE COVERED WITH AN APPROVED VAPOR RETARDER.
17. SEE MODEL PLAN FOR SHEAR WALL TIE DOWN AND FOUNDATION UPLIFT DETAILS AND SEE TYPICAL PACKAGE FOR GENERAL TIE DOWN REQUIREMENTS AND ADDITIONAL CONSTRUCTION REQUIREMENTS.
18. THIS FOUNDATION PLAN IS ONLY APPLICABLE TO THE MODEL NUMBER SPECIFIED IN THE TITLE BLOCK. FOUNDATION PLAN IS NOT VALID FOR ANY MODEL CHANGES MADE AFTER THE CERTIFICATION DATE OF THIS FOUNDATION DESIGN. SEE MODEL PLAN COVER SHEET FOR STRUCTURAL LOAD LIMITATIONS.
19. THIS FOUNDATION DESIGN MUST INCORPORATE ALL CAST IN PLACE STRAPS AND ANCHOR BOLTS AS SHOWN ON ATTACHED SHEARWALL CALCULATIONS AND DRAWINGS IN ORDER TO COMPLETE THE LOAD PATH ASSOCIATED WITH THE MAIN WIND FORCE RESISTING SYSTEM OF THIS HOME. ANY

CHAMPION
P O BOX 2097 HWY 100 EAST
LAKE CITY, FL 32056

PHILLIP COPELAND, P.E
DIRECTOR OF MODULAR ENGINEERING
755 WEST BIG BEAVER ROAD
SUITE 1000
TROY, MI 33756
OFFICE. 248-614-6343
FAX. 248-273-4282

TITLE.
ON FRAME FOUNDATION

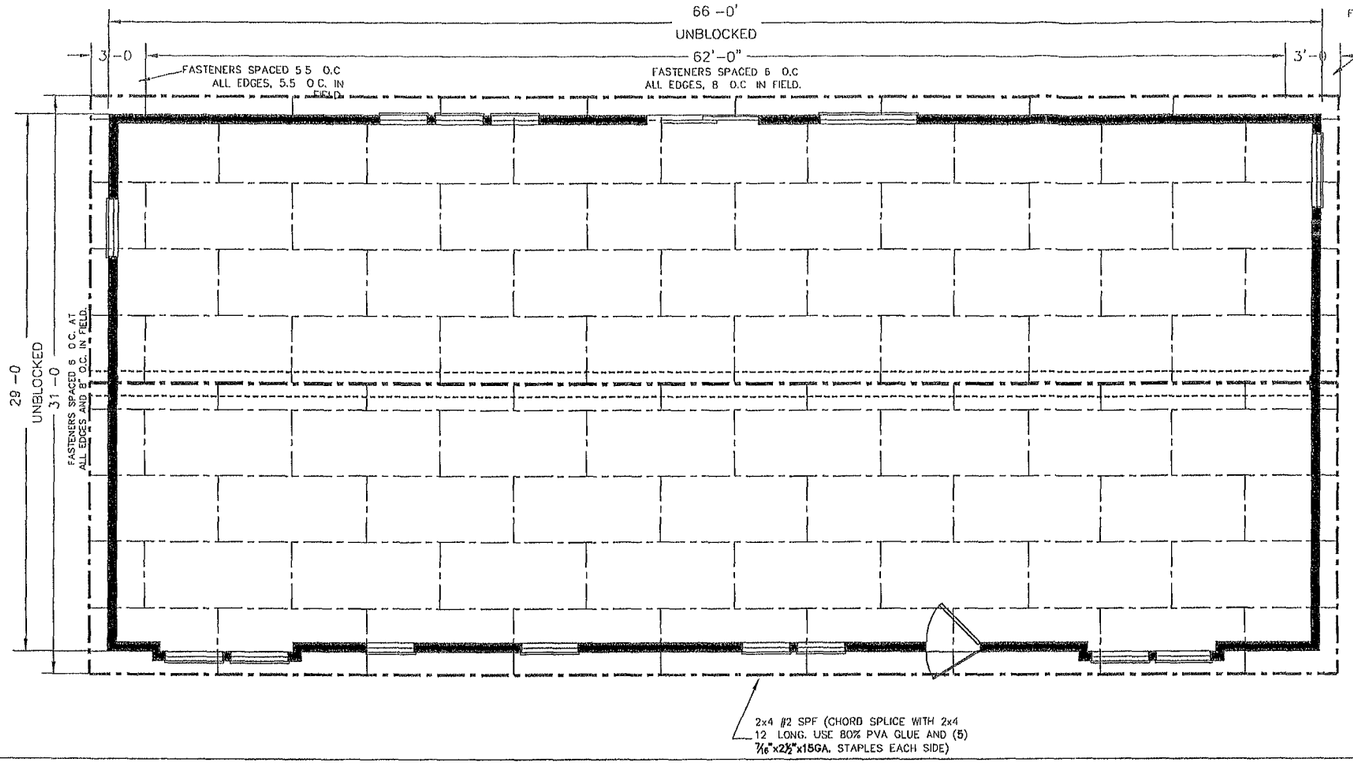
MODEL.
261-C643
Ref: 0664M1-0

DATE. 07-31-12

DRAWN BY: GAT

REVISED:
REVISIONS

SHEET NO:
F-101



DESIGN PROFILE	
SEISMIC ZONE.	C
WIND SPEED (STRENGTH DESIGN PER ASCE7-10)	130 MPH
WIND SPEED: (NOMINAL DESIGN PER 2010 FBC)	101 MPH
EXPOSURE	C
MEAN ROOF HEIGHT:	12 -10"
ROOF PITCH:	3 / 12
WALL HEIGHT	98 IN

NOTES:
-USE 7/16 RATED SHEATHING FOR TRUSSES @ 16 O.C. & 15/32 RATED SHEATHING FOR TRUSSES @ 24 O.C.

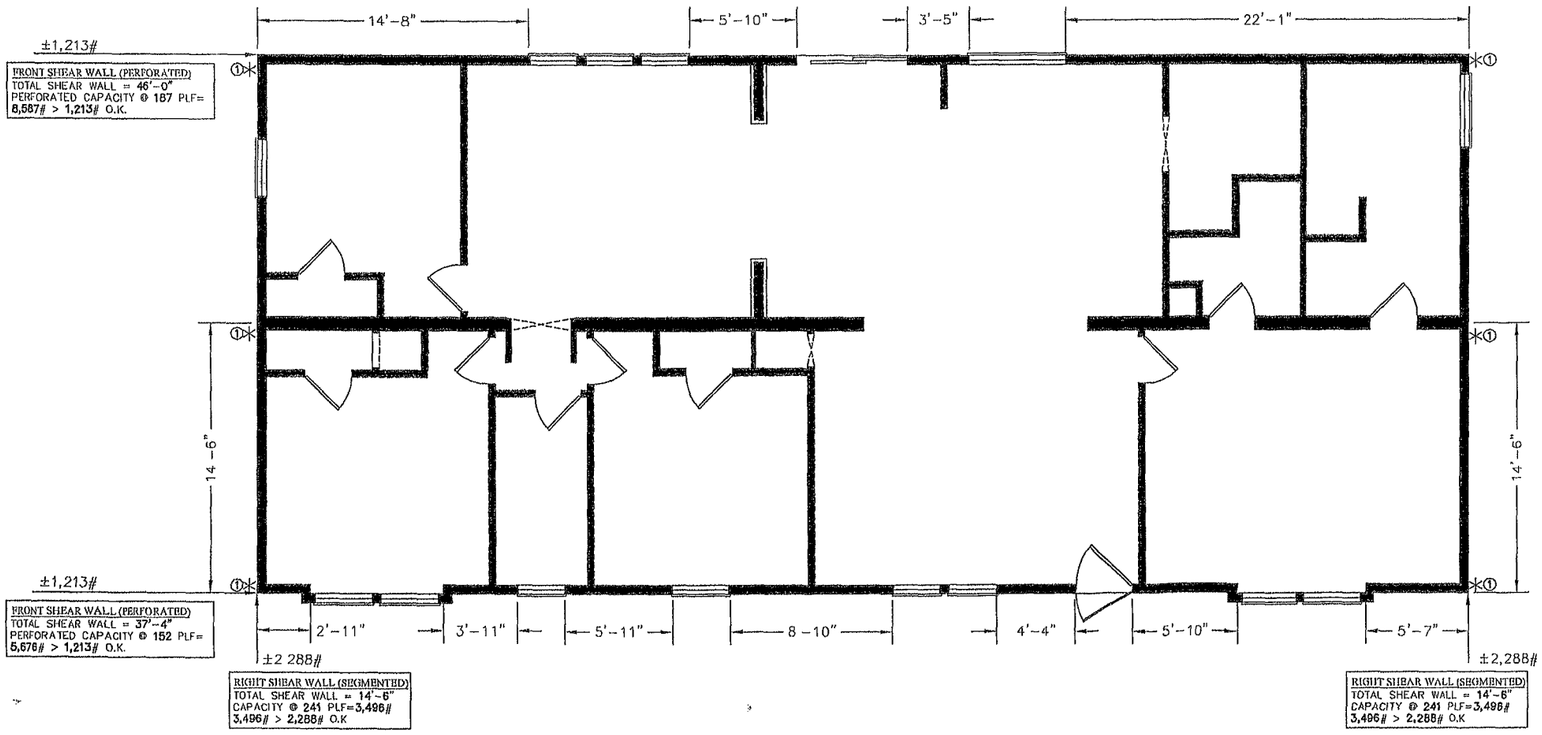
-FASTENERS SHALL BE 7/16"x1¾"x15GA. STAPLES (MIN.) SPACED AS INDICATED ABOVE

-DIAPHRAGM WITH SPF FRAMING RATED FOR: 224 PLF UNBLOCKED PER ESR-1539 WITH 40% INCREASE PER IBC 2009 / 2010 FBC WIND LOAD ONLY

-CALCULATIONS OUTLINE THE MWFRS (PER ASCE-10) ONLY REFERENCE STATE APPROVED DESIGN MANUAL FOR ADDITIONAL STRUCTURAL INFORMATION

-FOUNDATION DESIGN PERFORMED BY OTHERS BASED ON SITE CONDITIONS AND MUST ACCOMMODATE ALL UPLIFT AND LATERAL FORCES AS NOTED.

ROOF DIAPHRAGM



SHEAR WALL LAYOUT

SHEAR WALL	SHEAR WALL CAPACITY
FRONT	241 PLF (6" O.C EDGE)
REAR	241 PLF (6" O C EDGE)
LEFT	241 PLF (6" O C EDGE)
RIGHT	241 PLF (6" O.C EDGE)

THESE ALLOWABLE STRENGTHS INCLUDE A 40% INCREASE WHERE APPLICABLE FOR WIND FORCES PER IBC 2009

NOTES:
SHEAR WALLS SHALL BE CONSTRUCTED OF RATED SHEATHING WITH SPF#2 FRAMING AT 16 O.C WITH FASTENING AS FOLLOWS:

241 PLF. 15 GA. STAPLES, 6" O.C AT PANEL EDGES AND 12" O.C. IN FIELD SEE STANDARD DETAIL PAGE 2. 7/16" SHEATHING.

UPLIFT MARK	SHEAR WALL CAPACITY
①	910#

UPLIFT CONNECTION REQUIRED AS INDICATED BY * SEE TABLE BELOW FOR UPLIFT VALUES UPLIFT CONNECTION DETAILS PER PAGES 02 & 03.

CHAMPION ENGINEERING
755 W BIG BEAVER ROAD SUITE 1000
TROY MI 48084
PHONE 248-614-8200

ENGINEER'S / ARCHITECT'S SEAL

PHILLIP J COPELAND LICENSE No. 67942 STATE OF FLORIDA PROFESSIONAL ENGINEER

APPROVER'S SEAL

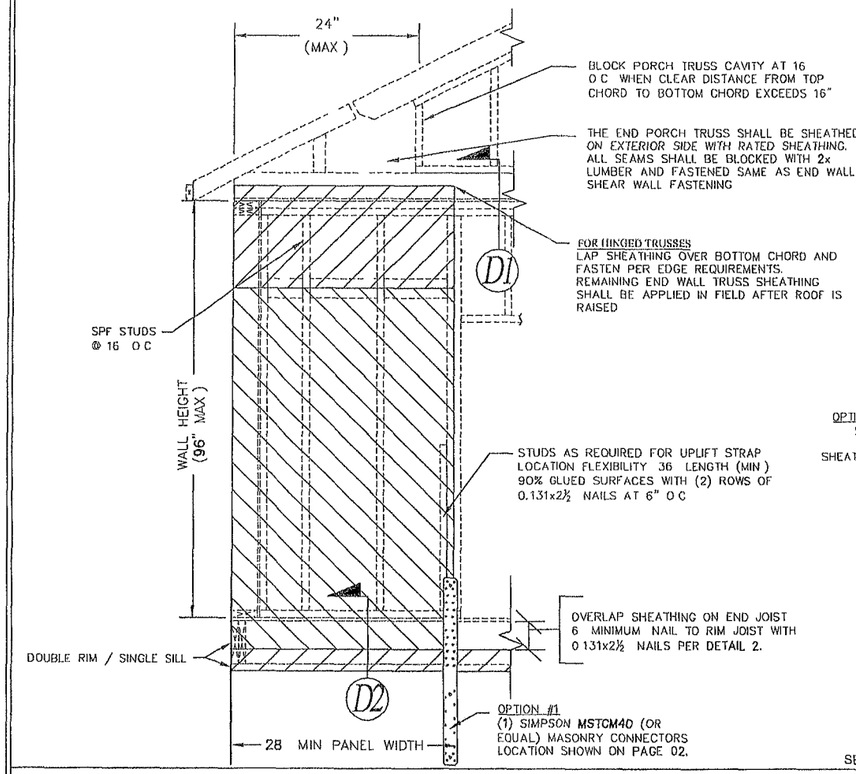
MODIFICATIONS

TITLE.
ROOF DIAPHRAGM SHEARWALL LAYOUT
MWFRS

MODEL.
C643

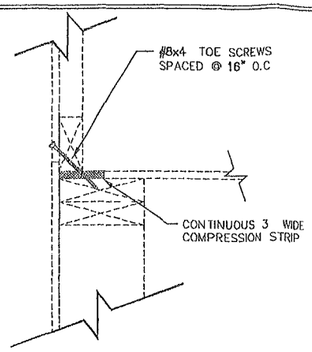
DATE: 08/17/12	SCALE
DRAWN BY: CORP	CHECKED BY.
CALCS ATTACHED	

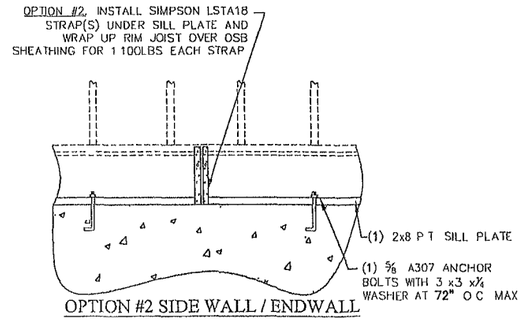
FILENAME C643 (130MPH, EXP.C)
SHEET NO
SW-101
PAGE 1 OF 3



D1 TRUSS TO TOP PLATE

FASTEN SCREW BEFORE SHEATHING IS APPLIED





OPTION #2 SIDE WALL / ENDWALL FOUNDATION CONNECTION

SEE UPLIFT LOAD CONNECTION LOCATION ON PAGE 01

GENERAL NOTES

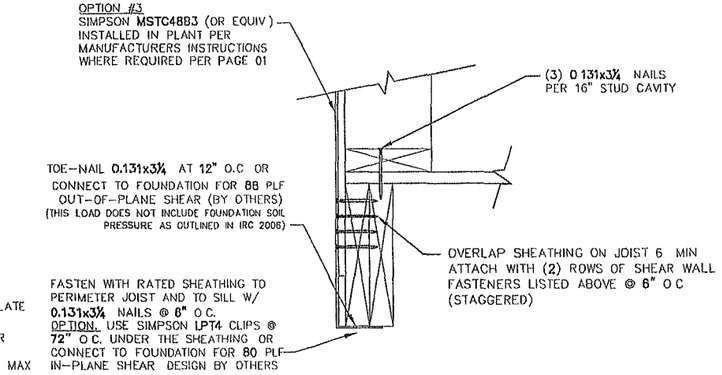
1 SHEATHING SHALL BE 7/16 RATED SHEATHING THE FOLLOWING LOADS ARE WIND ONLY RATED

LEFT & RIGHT END WALL FASTENING (241 PLF).
7/16"x1¾"x15GA. STAPLES AT 6 O C ALL EDGES AND 12 O C FIELD FRAMING AT ADJOINING PANEL EDGES SHALL BE MINIMUM 2 NOMINAL

2 ANY MODIFICATION TO THE DETAILS SPECIFIED MUST HAVE PRIOR ENGINEERING APPROVAL

3. STRENGTH DATA FOR SHEAR WALL CAPACITY TAKEN FROM ICC EVALUATION SERVICE INC ESR-1539 REISSUED JULY 1 2011 WITH A 40% INCREASE PER IBC 2009 / 2010 FBC.

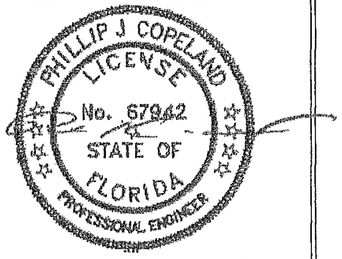
END WALL SHEAR WALLS



D2 BOTTOM PLATE TO RIM JOIST

CHAMPION ENGINEERING
755 W BIG BEAVER ROAD SUITE 1000
TROY, MI 48084
PHONE 248-614-8200

ENGINEER'S / ARCHITECT'S SEAL



APPROVER'S SEAL

GENERAL NOTES

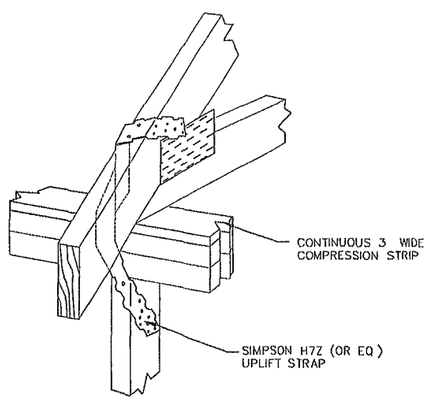
1 SHEATHING SHALL BE 7/16 RATED SHEATHING THE FOLLOWING LOADS ARE WIND ONLY RATED

FRONT & REAR SIDEWALL FASTENING (241 PLF).
7/16"x1¾"x15GA. STAPLES AT 6 O C ALL EDGES AND 12" O C FIELD FRAMING AT ADJOINING PANEL EDGES SHALL BE MINIMUM 2 NOMINAL.

2 ANY MODIFICATION TO THE DETAILS SPECIFIED MUST HAVE PRIOR ENGINEERING APPROVAL.

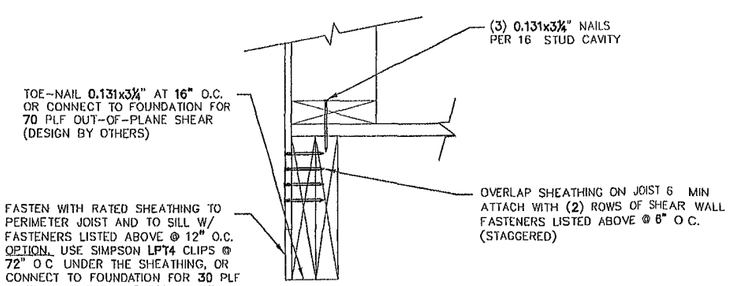
3. STRENGTH DATA FOR SHEAR WALL CAPACITY TAKEN FROM ICC EVALUATION SERVICE INC ESR-1539 REISSUED JULY 1 2011 WITH A 40% INCREASE PER IBC 2009 / 2010 FBC.

SIDEWALL SHEAR WALLS

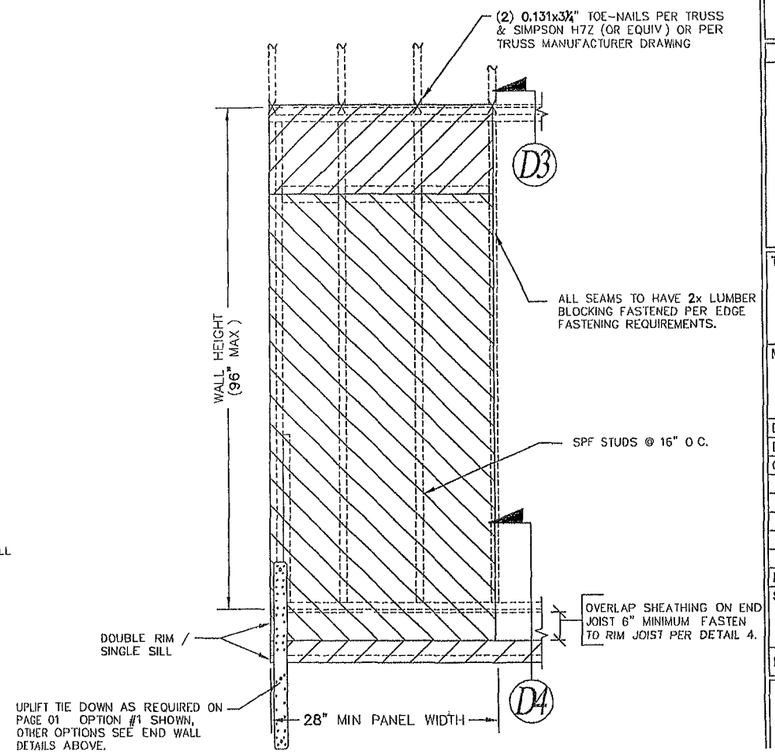


D3 TRUSS TO TOP PLATE

TRUSS TO TOP PLATE CONNECTION PER APPROVED DESIGN MANUAL.



D4 BOTTOM PLATE TO RIM JOIST



MODIFICATIONS

TITLE:
SHEAR WALL END WALL DETAILS
MWFRS

MODEL:
C643

DATE. 08/17/12	SCALE·
DRAWN BY: CORP.	CHECKED BY
CALCS. ATTACHED	

FILENAME: C643 (130MPH, EXP.C)

SHEET NO..
SW-102

PAGE: 2 OF 3

CHAMPION
HOME BUILDERS, INC.

7/16 in. Thick Rated Shear Wall

Model: 261-C643 REAR

Connected by: 15 ga Staples @ 6 in o c (edge), 12 in o.c. (field)
Minimum 1 75" fastener length

Loading Type = Wind Loading Factor = 1 4

Shearwall Data:

Shearwall Capacity =	294	plf	ESR-1539
Reduction Factor =	0 82	for SPF	
Maximum Shear =	241	plf (for SPF)	

Wall Height, H = 96 in

Components & Cladding

	Edge	Field
Corner	6" o c	12" o c
Field	6" o c	12" o c.

Wall Segment Lengths

	ft	in	ft	h/bs	% Capacity	Strength (plf)
1	14	8	14 67	0 55	100%	241
2	5	10	5 83	1 37	100%	241
3	3	5	3 42	2 34	100%	241
4	22	1	22 08	0 36	100%	241
5			0 00	0 00	0%	241
6			0 00	0 00	0%	241
7			0 00	0 00	0%	241
8			0 00	0 00	0%	241
			46 00			241

Total Shear @ Wall = 1,213 lbs
Actual Shear Wall Segment Lengths = 46 00 ft
Perforated Shear Wall Length = 57 17 ft
Actual Shear Value = 34 1 plf

Percent Full Height Sheathing

0 80
Lower Bound = 0 80
Upper Bound = 0.90

Maximum Opening Height

80 in
0 83
Lower Bound = 0 83
Upper Bound = 0 83

	1/3 h	1/2 h	2/3 h	5/6 h	1 h
10%	1 00	0 69	0 53	0 43	0 36
20%	1 00	0 71	0 56	0 45	0 38
30%	1 00	0 74	0 59	0 49	0 42
40%	1 00	0 77	0 63	0 53	0 45
50%	1 00	0 80	0 67	0 57	0 50
60%	1 00	0 83	0 71	0 63	0 56
70%	1 00	0 87	0 77	0 69	0 63
80%	1 00	0 91	0 83	0 77	0 71
90%	1 00	0 95	0 91	0 87	0 83
100%	1 00	1 00	1 00	1 00	1 00

Interpolation

0.77	0.77
0.87	0 87

0.77
0.87

Co = 0.77
Perforated Capacity = 187 plf
Allowable Shear Force = 8587 lbs
Anchor Uplift Force = 0 lbs

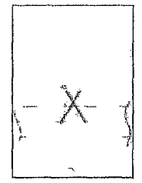
8/17/2012

CHAMPION
HOME BUILDERS, INC.

7/16 in. Thick Rated Shear Wall

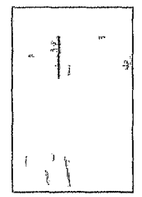
(218 plf Wall)

Model 261-C643 REAR



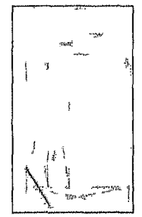
Roof Truss to Top Plate Connection:

Fasteners = 0 131 x 3 25" Toe Nails (NDS)
Fastener Capacity = 108 9 lbs/nail
Parellel Shear Load = 18 4 plf
Perpendicular Shear Load = 54 0 plf
No of nails req'd = 2 per truss



Bottom Plate to Rim Joist Connection:

Fasteners = 0 131 x 3 25" Nails (NDS)
Fastener Capacity = 100 2 lbs/nail
Shear Load = 64 5 plf
Nails req'd @ 18.5 in oc
Nails req'd @ 3 per stud cavity



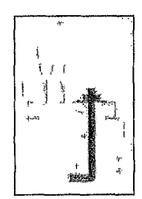
Bottom Half Wall Shear Connection:
(Out of Plane)

Fastener = 0 131 x 3 25" Toe Nail (ESR-1539)
Fastener Capacity = 104 9 lbs/nail
Shear Load = 67 5 plf
Nails req'd @ 18 0 in oc

Shear Transfer from Rim Joist to Sill Plate: ESR-1539

Fastener = 15 Staple — Minimum 1 75" fastener length
Fastener Capacity = 102.4 lbs/each
Lateral Shear Load = 18 4 plf
Uplift Shear Load = 0 0 plf
Nails req'd @ 66 0 in oc
Use 12.0 in oc staggered

Option LTP4 Clips = 372 in o c



Anchor Bolt Shear and Uplift: (NDS)

# of Sill Plates = 1
Fastener = 5/8 in dia Anchor Bolt

Shear Parallel to Grain = 18.4 plf
Shear Perpendicular to Grain = 67 5 plf
Capacity Parallel to Grain = 1552 lbs/bolt (NDS Table 11E SPF)
Capacity Perpendicular to Grain = 928 lbs/bolt (NDS Table 11E SPF)
Required Shear Spacing = 162 in oc

Uplift = 0 0 plf
Washer Area = 2 03 in^2
Cb = 1 21
Fcp = 425 psi
Bolt Uplift Capacity = 1050 lbs/bolt
Required Uplift Spacing = N/A in oc

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