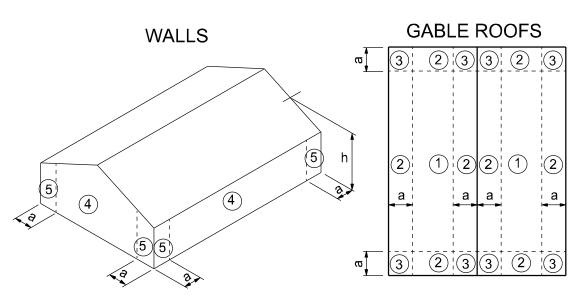
ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE 6TH EDITION (2017) FLOOR AND ROOF LIVE LOADS					
UNINHABITABLE ATTICS: 20 PSF HABITABLE ATTICS, BEDROOM: 30 PSF ALL OTHER ROOMS: 40 PSF GARAGE: 40 PSF ROOFS: 20 PSF UNIFORM ULTIMATE WIND SPEED: ULTIMATE WIND SPEED: 130 MPH NOMINAL (BASIC) WIND SPEED: 101 MPH RISK CATEGORY: II WIND EXPOSURE: B ENCLOSURE CLASSIFICATION: ENCLOSED INTERNAL PRESSURE COEFFICIENT: 0.18 +/- COMPONENTS AND CLADDING ROOFING ZONE 1: 16.8 PSF MAX. -18.4 PSF MIN. ROOFING ZONE 2: 16.8 PSF MAX. -21.5 PSF MIN. ROOFING ZONE 3: 16.8 PSF MAX. -21.5 PSF MIN. ROOFING AT ZONE 2 OVERHANGS: -31.1 PSF MIN. STUCCO, CLADDING, DOORS AND WINDOWS ROOFING ZONE 4: 18.4 PSF MAX. -19.9 PSF MIN. ROOFING ZONE 5: 18.4 PSF MAX. -24.6 PSF MIN. 9' WIDE O/H DR.: 16.1 PSF MAX. -18.3 PSF MIN.					
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ROOFS: 20 PSF UNIFORM	ALL OTHER ROOMS:		40 PS	F	
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10.11 61 100 01	ROOFING ZONE 5:		18.4 PSF MAX.	-24.6 PSF MIN.	
16' WIDE O/H DR.: 16.0 PSF MAX17.3 PSF MIN.	9' WIDE O/H DR.:		16.1 PSF MAX.	-18.3 PSF MIN.	
	16' WIDE O/H DR.:		16.0 PSF MAX.	-17.3 PSF MIN.	



a: 10% of least horizontal dim. or 0.4h, whichever is smaller, but not less than

either 4% of least horizontal dimension or 3 ft. h: mean roof height, in feet.

COMPONENTS AND CLADDING

STRUCTURAL DESIGN CRITERIA

FLORIDA BUILDING CODE 6TH EDITION (2017) CODES: BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI 318-14) SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDINGS (ACI 301-16) BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES (ACI 530-13)

NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, 2015 EDITION APA PLYWOOD DESIGN SPECIFICATION

LIVE LOADS:

WOOD FRAMING:

TRUSSES:

RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED **BALCONIES** STAIRS

LIGHT PARTITIONS (DEAD LOAD), U.N.O. WIND LOADS BASED ON FBC, SECTION 1609 WIND LOADS:

WIND VELOCITY: 120 M.P.H., USE FACTOR: 1.0 (F.B.C.)

ALL CONCRETE UNLESS OTHERWISE INDICATED CONCRETE 3000 PSI PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY STRENGTH (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS)

@ 28 DAYS WELDED WIRE FABRIC SHALL CONFORM TO **REINFORCING:**

ASTM A615-40 40,000 PSI ALL REINFORCING BARS ASTM A615-40 40,000 PSI ALL STIRRUPS AND TIES

ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 PSI CONCRETE MORTAR TYPE "S" 1800 PSI MASONRY CONCRETE GROUT 3000 PSI UNITS:

CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O

STRUCTURAL SHOP AND FIELD WELDS: E70XX ELECTRODES STEEL: ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O.

NO. 2 SOUTHERN YELLOW PINE (19% M.C.) ROOF DECK: PLYWOOD C-C/C-D, EXTERIOR, or OSB FLOOR SHEATHING: T&G A-C GROUP 1 APA RATED (48/24) WALL SHEATHING: PLYWOOD C-C/C-D, EXTERIOR OR OSB

VERSA LAM BEAM Fb = 2900 PSI (2.0E) WOOD COLS. PARALLAM 2.0E U.N.O. **DESIGN LOADS: WOOD ROOF** 30 PSF TOP CHORD LIVE AND DEAD LOAD:

10 PSF BOTTOM CHORD DEAD LOAD: 40 PSF SEE DRAWINGS FOR SPECIAL CONCENTRATED LOADS. DESIGN

FOR NEW WIND UPLIFT AS PER SPECIFIED CODES, DEDUCTING

A MAXIMUM OF 5 P.S.F. DEAD LOAD, BUT NOT EXCEEDING ACTUAL DEAD LOAD.

ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 1,500 PSF SOIL BEARING SEE SOILS REPORT AND SPECIFICATIONS FOR COMPACTION REQUIREMENTS IF SOIL CONDITIONS IN THE PROJECT DO NOT MEET OR EXCEED THE CAPACITY THE GENERAL CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO FOUNDATION POUR FOR VERIFICATION OF FOUNDATION DESIGN.



PROJECT LOCATION

L RESIDENC

Plt. Ht. Plate Height

ABBREVIATIONS

Floor

, .	7 (1101101 2011			1 11. 1 11.	i late Height
Abv.	Above	Fdn.	Foundation	Plt Sh.	Plant Shelf
A/C	Air-Conditioner	Flr. Sys.	Floor System	PSF	Pounds per square foot
Adj.	Adjustable	F.Pl.	Fireplace	P.T.	Pressure Treated
A.É.F.	Above Finished Floor	Ft.	Foot / Feet	Pwd.	Powder Room
A.H.U.	Air Handler Unit	Ftg.	Footing	Rad.	Radius
ALT.	Alternate	FΧ̈́	Fixed	Ref.	Refrigerator
B.C.	Base Cabinet	Galv.	Galvanized	Reg'd.	Required
B.F.	Bifold Door	G.C.	General Contractor	Rm.	Room
	Book Shelf	G.F.I.	Ground Fault Interrupter	Rnd.	Round
Bm.	Beam	G.T.	Girder Truss	R/SH	Rod and Shelf
BOT.	Bottom	Hdr.	Header	SD.	Smoke Detector
B.P.	Bypass door	Hgt.	Height	S.F.	Square Ft.
Brg.	Bearing	HB	Hose Bibb	Sh.	Shelves
Cir.	Circle	Int.	Interior		
Clg.	Ceiling	K/Wall	Kneewall	SHT	Sheet
Col.	Column	K.S.	Knee Space	S.L.	Side Lights
	A/C Compressor	Laun.	Laundry	S.P.F.	Spruce Pine Fir
	Ceramic Tile		•	Sq.	Square
C.T.		Lav.	Lavatory	S.Y.P.	Southern Yellow Pine
D	Dryer	L.F.	Linear Ft.	Temp.	Tempered
Dec.	Decorative	L.T.	Laundry Tub	Thik'n.	Thicken
Ded.	Dedicated Outlet	Mas.	Masonry	T.O.B.	Top of Block
Dbl.	Double	Max	Maximum	T.O.M.	Top of Masonry
Dia.	Diameter	M.C.	Medicine Cabinet	T.O.P.	Top of Plate
Disp.	Disposal	MDP	Master Distribution Panel	Trans.	Transom Window
Dist.	Distance	Mfgr.	Manufacturer	Typ.	Typical
D.S.	Drawer Stack	Micro.	Microwave	ÚČL	Under Cabinet Lighting
D.V.	Dryer Vent	Min	Minimum	U.N.O.	Unless Noted Otherwise
D.W.	Dishwasher	M.L.	Microlam	VB	Vanity Base
Ea.	Each	Mir.	Mirror	Vert.	Vertical
E.W.	Each Way	Mono	Monolithic	V.L.	Versalam
Elec.	Electrical	N.T.S.	Not to Scale	VTR	Vent through Roof
Elev.	Elevation	Opn'g.	Opening	W	Washer
Ext.	Exterior	Opt.	Optional Optional	W/	With
Ехр.	Expansion	Pc.	Piece	W/C	Water Closet
F.B.C.	Florida Bldg. Code	Ped.	Pedestal	W.A.	Wedge Anchor
Fin. Flr.		P.L.	Parallam	Wd.	Wood
F.G.	Fixed Glass	PLF	Pounds per linear foot	WP	Water Proof
				V V I	11001

INDEX OF SHEETS

<u>SHEET</u> **DESCRIPTION** A-1 **COVER SHEET** FLOOR PLAN **ELEVATIONS FRONT AND REAR** A-3 **ELEVATIONS SIDES** FOUNDATION PLAN ROOF PLAN MASONRY DETAILS ELECTRICAL PLAN

GENERAL PLAN NOTES

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 DIS-CREPANCIES SHALL BE REPORTED TO THE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY WORK OR FABRACATION 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.

CHANGES TO FINAL PLAN SETS

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROM SPECIFICATION ON THE PLANS.

INORGANIC ARSENICAL PRESSURE TREATED WOOD SOME FRAMING MATERIALS SPECIFIED FOR THE CONSTRUCTION OF YOUR PROJECT SUCH AS SILLS OR EXTERIOR FRAMING ARE PRESSURE TREATED. EACH PIECE IS CLEARLY MARKED FOR EASY IDENTIFICATION AND IS USUALLY GREENISH IN COLOR.

THIS WOOD HAS BEEN PRESERVED BY PRESSURE-TREATMENT WITH AN EPA-REGISTERED PESTICIDE CONTAINING INORGANIC ARSENIC TO PROTECT IT FROM INSECT ATTACK AND DECAY. EXPOSURE TO TREATED WOOD MAY PRESENT CERTAIN HAZARDS, THEREFORE, PRECAUTIONS SHOULD BE TAKEN BOTH WHEN HANDLING THE TREATED WOOD AND IN DETERMINING WHERE TO USE OR DISPOSE OF THE TREATED WOOD.

FOR FURTHER INFORMATION ON THE USE OF AND DISPOSAL OF INORGANIC ARSENIC PRESSURE TREATED WOOD, PLEASE REFER TO THE EPA MATERIAL SAFETY SHEET DEALING WITH THIS PRODUCT.

PREFABRICATED WOOD TRUSSES

1. ALL PREFABRICATED WOOD TRUSSES SHALL BE SECURELY FASTENED TO THEIR SUPPORTING WALLS OR BEAMS WITH **HURRICANE CLIPS OR ANCHORS**

- 2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL DESIGN SPECIFICATION FOR STRESS-GRADE LUMBER AND ITS FASTENERS" AS RECOMMENDED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- 3. TRUSS MEMBERS AND CONNECTIONS SHALL BE PROPOR-TIONED (WITH A MAXIMUM ALLOWABLE STRESS INCREASE FOR LOAD DURATION OF 25%) TO WITHSTAND THE LIVE LOADS GIVEN IN THE NOTES AND TOTAL DEAD LOAD. 4. BRIDGING FOR PRE-ENGINEERED TRUSSES SHALL BE AS REQUIRED BY THE TRUSS MANUFACTURER UNLESS
- NOTED ON THE PLANS. 5. TRUSS ELEVATIONS AND SECTIONS ARE FOR GENERAL CONFIGURATION OF TRUSSES ONLY. WEB MEMBERS ARE NOT SHOWN, BUT SHALL BE DESIGNED BY THE TRUSS MANUFACTURER IN ACCORDANCE WITH THE FOLLOWING DESIGN LOADS:
- DESIGN SPECIFICATIONS FOR LIGHT WEIGHT METAL PLATE CONNECTED WOOD TRUSSES PER THE TRUSS PLATE INSTITUTE TPI LATEST EDITION.
- 7. PRE-ENGINEERED WOOD TRUSSES SHALL BE DESIGNED BY THE MANUFACTURER IN ACCORDANCE WITH SPECIFIED LOADS AND GOVERNING CODES . SUBMITTALS SHALL INCLUDE TRUSS FRAMING PLANS AND DETAILS SHOWING MEMBER SIZES. BRACING, ANCHORAGE, CONNECTIONS, TRUSS LOCATIONS, AND AND PERMANENT BRACING AND/OR BRIDGING AS REQUIRED FOR ERECTION AND FOR THE PERMANENT STRUCTURE. EACH SUBMITTAL SHALL BE SIGNED AND SEALED BY A FLORIDA REGISTERED STRUCTURAL ENGINEER. SUBMIT 3 COPIES FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
- 8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. TRUSS SHOP DRAWINGS SHALL SHOW ALL TRUSSES, ALL BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

FIELD REPAIR NOTES

- 1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSM16 TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TITENS TO THE BOND BEAM BLOCK AND (7) 10d TO THE TRUSS FOR UPLIFTS OF 1000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASIS. 2. MISSED "J" BOLTS FOR WOOD BEARING WALLS MAY BE SUB-
- STITUTED W/ 1/2" DIA. ANCHOR BOLTS SET IN 3/4" DIA. X 6" DEEP UNITEX "PROPOXY" 300 ADHESIVE BINDER FOLLOWING ALL MANUFACTURERS RECOMMENDATIONS (OR 1/2" X 6" RAWL STUD EXPANSION ANCHORS.)
- 3. REGARDING MISSED REBAR IN VERTICAL FILLED CELLS: DRILL A 3/4" DIAMETER HOLE 6" DEEP AT THE LOCATION OF THE OMITTED REBAR, AND INSTALL A 32" LONG #5 BAR INTO THE EPOXY FILLED HOLE. USE A TWO PART EMBEDDEMENT EPOXY (SIMPSON "EPOXY TIE SET", OR HILTI " 2 PART" EMBEDDMENT EPOXY), MIXED PER MANUFACTURER'S INSTRUCTIONS. ASSURE THAT ALL DUST AND DEBRIS FROM DRILLING ARE REMOVED FROM THE HOLE BY BRUSHING AND AND USING COMPRESSED AIR PRIOR TO APPLYING THE EPOXY. ALLOW THE EPOXY TO CURE TO MANUFACTURER'S SPECIFICATIONS, THEN FILL THE CELL IN THE NORMAL WAY DURING BOND BEAM POUR.
- 4. HURRICANE STRAPS MAY BE SUBSTITUTED WITH A STRAP OF GREATER HOLDOWN VALUE OR GREATER UPLIFT VALUE IN THE FIELD WITHOUT VERIFICATION, PROVIDED ALL MANUFACTURERS INSTALLATION INSTRUCTIONS ARE FOLLOWED.
- 5. FOR MORTER JOINTS LESS THAN 1/4", PROVIDE (1) #5 VERT. IN CONC. FILLED CELL EACH SIDE OF THE JOINT (BAR DOES NOT HAVE TO BE CONT. TO FOOTING)



DESIGN BY:

HIP ROOFS

20 PSF (REDUCIBLE)

40 PSF

40 PSF

20 PSF

ASTM A185

CERTIFIED GENERAL CONTRACTOR CGC1514780

Anchor Bolt

LAKE CITY, FL. 32025 (386)755-5254



CERTIFICATE OF AUTHORIZATION NO. 28022

349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303



Brett A. Crews, P.E. 65592

DRAWN BY:

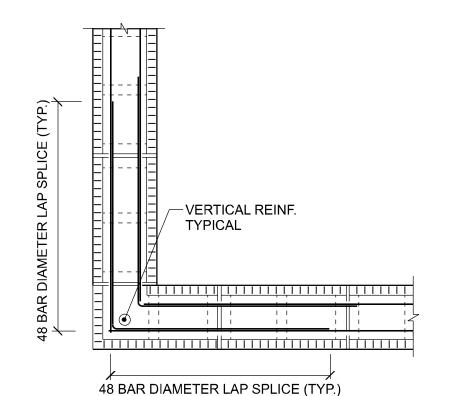
APPROVED BY:

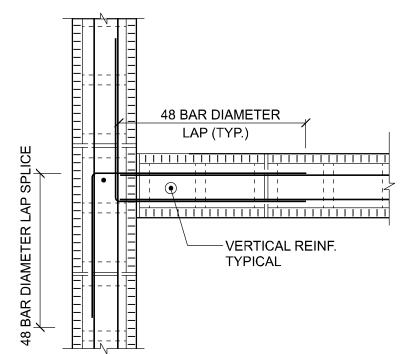
TERRELL RESIDENCE

PROJECT NO.: R20.003

COVER SHEET

SHEET: A-1

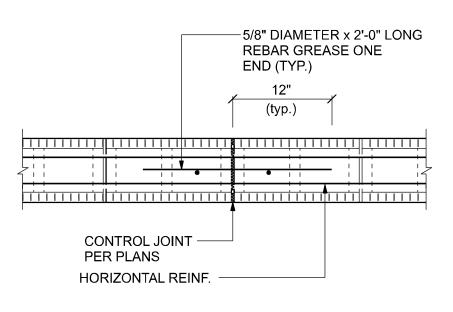




BOND BEAM AT

INTERSECTION

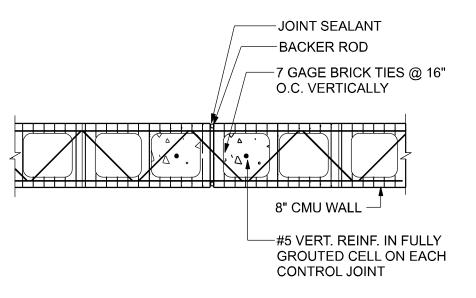
SCALE: 3/4" = 1'-0"



BOND BEAM AT CONTROL

JOINT

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

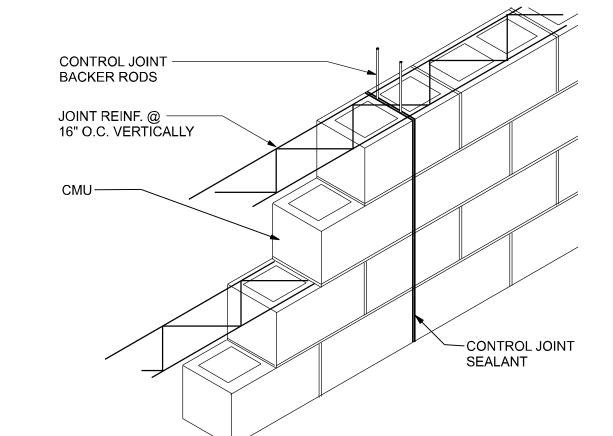


CONTROL JOINT PLAN

CONTROL JOINTS SHOULD BE SPACED EVERY 100' TO 125' ALONG UNBROKEN

WALL LENGTHS OR:

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



CONTROL JOINT LOCATION

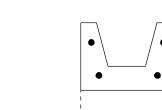
BOND BEAM AT CORNER

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

DATE BY

Lintel Concrete Strength = 4000 psi Fill Concrete Strength = 3000 psi Steel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

<u>TYPE</u>	TOP BARS	BOTTOM BAR
Α	NONE	2-#3
В	2-#2	2-#4
С	2-#3	2-#4
D	2-#3	2-#5
Е	2-#4	2-#6



<u>TYPE</u>	TOP BARS	BOTTOM BARS
Α	NONE	2-#3
В	NONE	2-#4
С	2-#2	2-#4

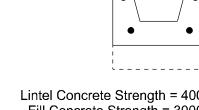
PRECA	ST LINTEL (OVER	OPENINGS
LENGTH	CLEAR SPAN	TYPE	FILLED + BEAM
4'-6"	3'-2"	Α	6000+ PLF
7'-6"	6'-2"	В	5663 PLF
12'-0"	10'-8"	D	2181 PLF
17'-4"	16'-0"	F	1366 PLF

1366 PLF

FILLED + BEAM = Acting as composite beam with an 8" perimeter beam 1-#5 rebar in lintel, 1-#5 rebar in perimeter beam

16'-0"

CMU Lintel Schedule



Lintel Concrete Strength = 4000 psi
Fill Concrete Strength = 3000 psi
teel Strength = Grade 60 (#6), Grade 40 (#2 - #5)

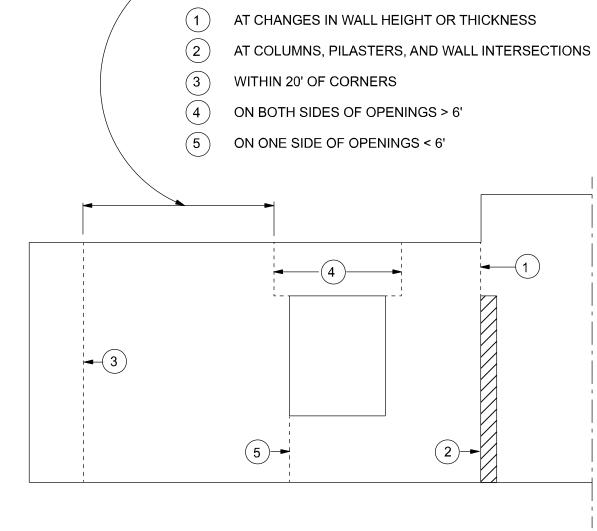
<u>TYPE</u>	TOP BARS	BOTTOM BARS
Α	NONE	2-#3
В	NONE	2-#4
С	2-#2	2-#4

DOORWAY HEADER

DOOR SIZE	TYPE	FILLED + BEAM
3'-0"	Α	6000+ PLF
5'-0"	В	5689 PLF
6'-0"	С	4262 PLF

FILLED + BEAM = Acting as composite beam with an 8" perimeter beam

1-#5 rebar in lintel, 1-#5 rebar in perimeter beam



CONTROL JOINT SPACING	

SEE SCHEDULE FOR REINF.
OPEN END COURSES ABOVE

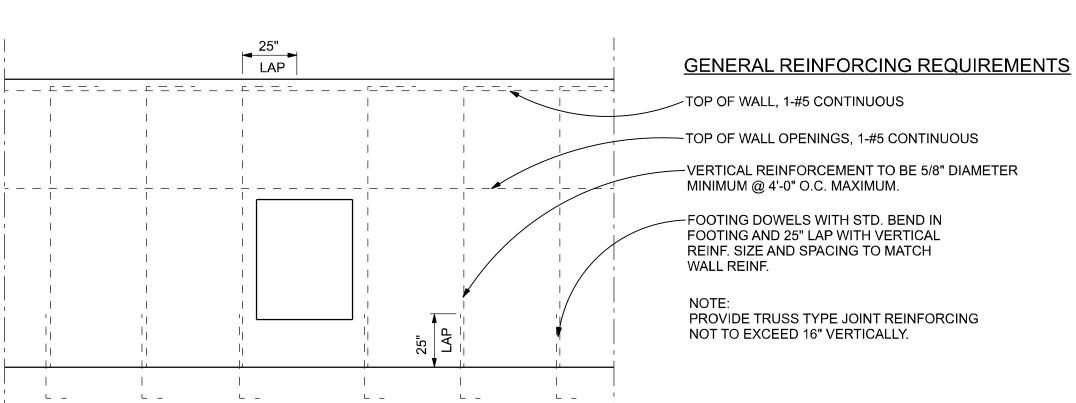
OPENING	LINTEL DEPTH 8" CMU	REINF. AT TOP	OPEN END COURSES ABOVE
4'-0" or less	16"	1-#5	
over 4'-0" to 7'-4"	16"	1-#5	VERTICAL REINF. TO
over 7'-4" to 11'-4"	24"	1-#5's	MATCH BELOW
over 11'-4" to 14'-0"	32"	1-#5's	2- #5's
over 14'-0" to 16'-0"	40"	1-#5's	CLOSED BOTTOM LINTEL BLOCK

- 1. For openings 6'-0" and less ,provide 8" bearing with 1-#5 each side of opening.
- For openings larger than 6'-0" provide min. 16" bearing with 2-#5's each side of opening
 Extend horizontal reinforcement min. 16" past each side of opening.
 Extend vertical reinforcement full height of wall each side of opening.

DESCRIPTION

REVISIONS

- 5. Grout all all reinforcement solid with 3,000 psi grout.
- 6. Grout lintel solid to depth indicated on schedule unless otherwise on the drawings. 7. Shore all cmu lintels during construction for 48 hours after grout has been placed.



WALL REINFORCING REQUIREMENTS NTS

- 1-#5 MIN EACH SIDE OF OPENING HAVING A HORIZONTAL DIMENSION GREATER THAN 4'-0" -STANDARD HOOK INTO BOND BEAM 1-#5 MIN @ EACH CORNER AND @ EACH CHANGE IN 1-#5 MIN @ EACH END REINFORCED BOND BEAM WALL DIRECTION OF SHEARWALL SEGMENT -CONTINUOUS AROUND PERIMETER -FOOTING DOWELS WITH STD. BEND IN FOOTING AND 25" LAP WITH VERTICAL REINFORCING. SIZE AND SPACING TO MATCH WALL REINFORCING

EXTERIOR WALL REINFORCEMENT SUMMARY ONE STORY (TWO STORY SIMILAR)

DESIGN BY:
TRADEMAR Construction Crown

CERTIFIED GENERAL CONTRACTOR Construc



CERTIFICATE OF AUTHORIZATION NO. 28022

PHONE: 386.623.4303

NTS

CERTIFICATE OF AUTHORIZATION NO. 28022	Digitally signed
349 SW CREWS FARM TERRACE LAKE CITY, FL 32025	Brett A. Crews by Brett A. Crews Date: 2020.10.

	DRA
signed A. Crews 20.10.13 04'00'	APP

DRAWN BY:	
TM	
APPROVED BY:	
ВС	

TERRELL RESIDENCE	PROJECT NO.: R20.00
MASONRY DETAILS	SHEET:

R20.003

A-7

	CGC1514780	
DEMARK	750 SW MAIN BLVD. LAKE CITY, FL. 32025	GES
ction Group, Inc.	(386)755-5254	Crews Engineering Service

Brett A. Crews, P.E. 65592