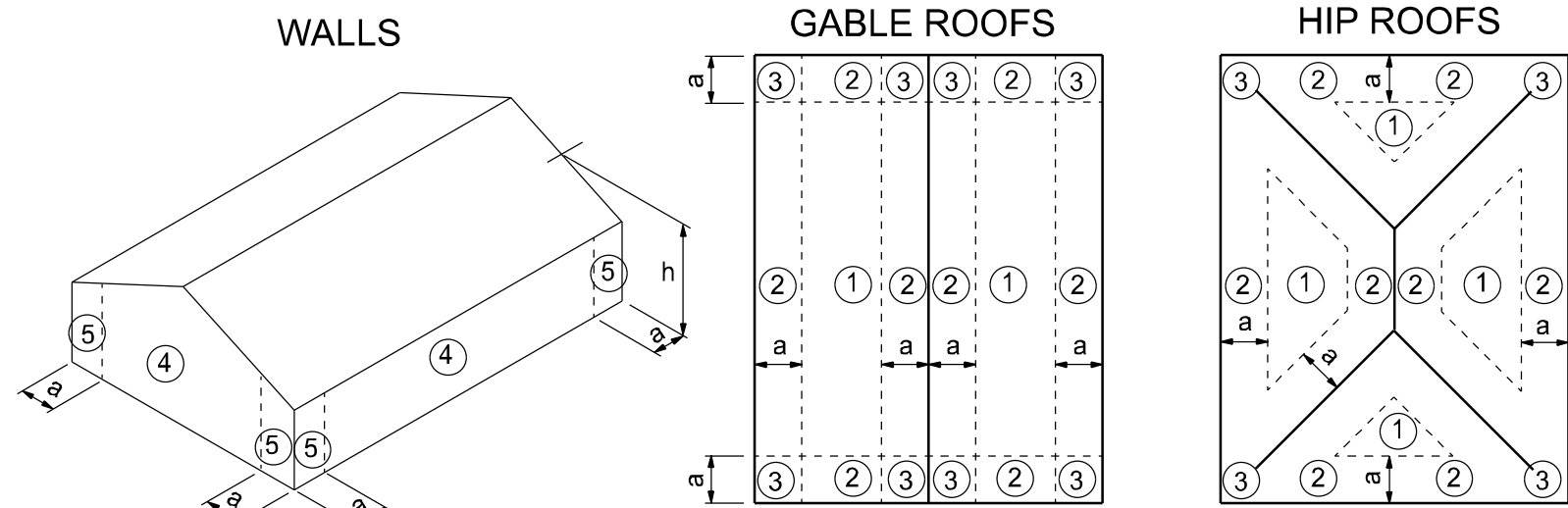


ALL WIND LOADS ARE IN ACCORDANCE WITH SECTION 1609, FLORIDA BUILDING CODE 6TH EDITION (2017)		
FLOOR AND ROOF LIVE LOADS		
UNINHABITABLE ATTICS:	20 PSF	
HABITABLE ATTICS, BEDROOM:	30 PSF	
ALL OTHER ROOMS:	40 PSF	
GARAGE:	40 PSF	
ROOFS:	20 PSF UNIFORM	
WIND DESIGN DATA		
ULTIMATE WIND SPEED:	130 MPH	
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.	
ROOFING AT ZONE 3 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.
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

CODES:	FLORIDA BUILDING CODE 6TH EDITION (2017) 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:	ROOF	20 PSF (REDUCIBLE)
	RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED	40 PSF
WIND LOADS: (F.B.C.)	BALCONIES	40 PSF
	STAIRS	40 PSF
CONCRETE STRENGTH @ 28 DAYS	LIGHT PARTITIONS (DEAD LOAD), U.N.O.	20 PSF
	WIND LOADS BASED ON FBC, SECTION 1609 WIND VELOCITY: 120 M.P.H., USE FACTOR: 1.0	
REINFORCING:	ALL CONCRETE UNLESS OTHERWISE INDICATED	2500 PSI
	PEA GRAVEL CONCRETE FOR MASONRY CELLS ONLY (DO NOT USE FOR CONCRETE COLUMNS OR TIE BEAMS)	3000 PSI
CONCRETE MASONRY UNITS:	WELDED WIRE FABRIC SHALL CONFORM TO	ASTM A185
	ALL REINFORCING BARS	ASTM A615-40 40,000 PSI
STRUCTURAL STEEL:	ALL STIRRUPS AND TIES	ASTM A615-40 40,000 PSI
	ASTM C90-99b, STANDARD WEIGHT UNITS, fm=1500 PSI MORTAR TYPE "S", 1800 PSI CONCRETE GROUT: 3000 PSI CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION	
WOOD FRAMING:	ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O.	
	SHOP AND FIELD WELDS: E70XX ELECTRODES ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307	
WOOD ROOF TRUSSES:	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: TOP CHORD LIVE AND DEAD LOAD: 30 PSF BOTTOM CHORD LIVE AND DEAD LOAD: 10 PSF TOTAL: 40 PSF	
SOIL BEARING VALUE:	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 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

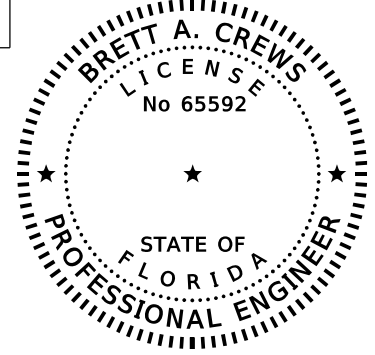
TERRELL RESIDENCE

ABBREVIATIONS

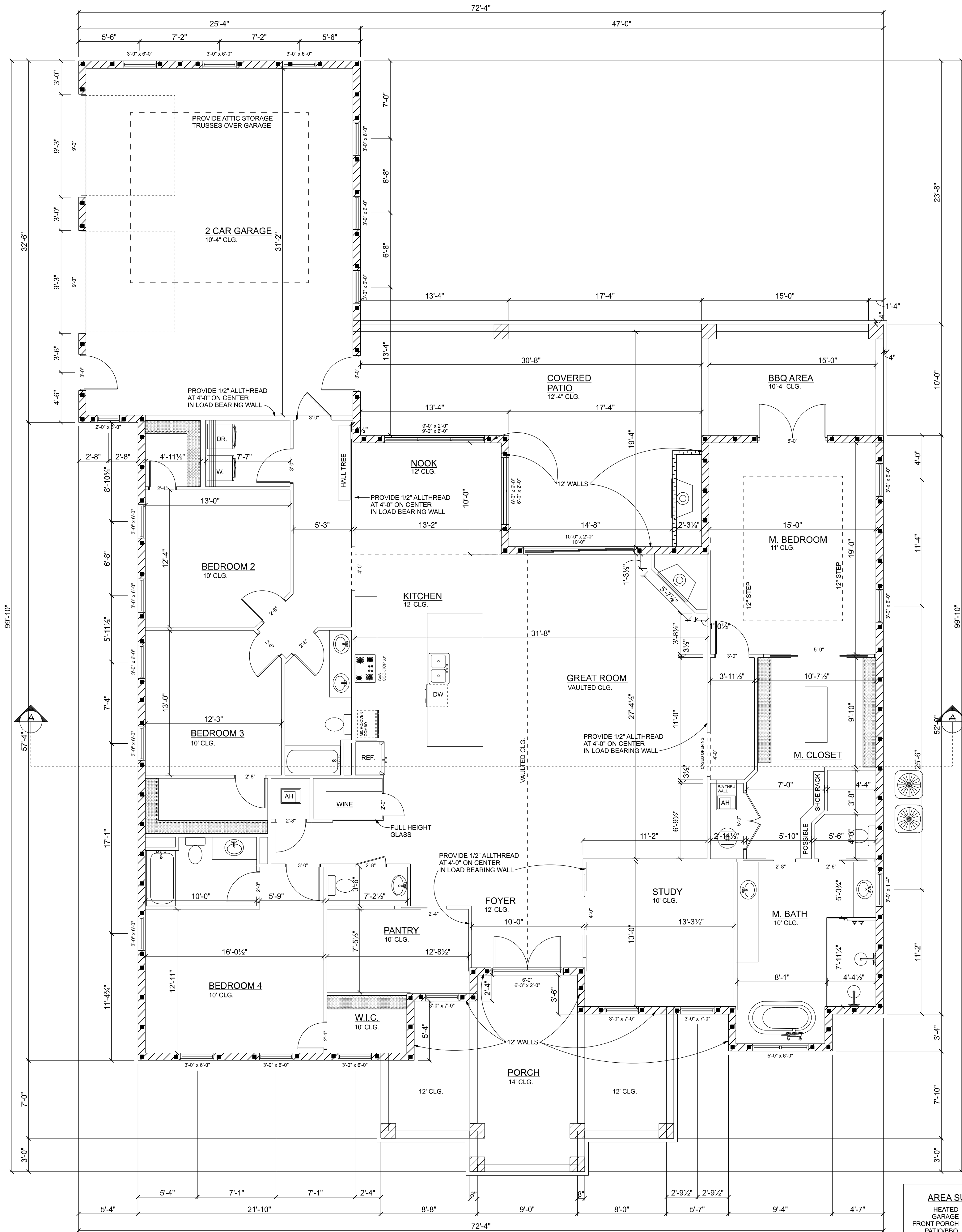
A.B.	Anchor Bolt	Fir.	Floor	Plt. Ht.	Plate Height
Abv.	Above	Fdn.	Foundation	Plt Sh.	Plant Shelf
A/C	Air-Conditioner	Fir. Sys.	Floor System	PSF	Pounds per square foot
Adj.	Adjustable	F.Pl.	Fireplace	P.T.	Pressure Treated
A.F.F.	Above Finished Floor	Ft.	Foot / Feet	Pwd.	Powder Room
A.H.U.	Air Handler Unit	Ftg.	Footing	Rad.	Radius
ALT.	Alternate	FX	Fixed	Ref.	Refrigerator
B.C.	Base Cabinet	Galv.	Galvanized	Req'd.	Required
B.F.	Bifold Door	G.C.	General Contractor	Rm.	Room
Bk Sh	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	SHT	Sheet
Clg.	Ceiling	K/Wall	Kneewall	S.L.	Side Lights
Col.	Column	K.S.	Knee Space	S.P.F.	Spruce Pine Fir
Comp.	A/C Compressor	Laun.	Laundry	Sq.	Square
C.T.	Ceramic Tile	Lav.	Lavatory	S.Y.P.	Southern Yellow Pine
D.	Dryer	L.F.	Linear FL	Temp.	Tempered
Dec.	Decorative	L.T.	Laundry Tub	Thik'n.	Thicken
Ded.	Dedicated Outlet	Mas.	Masonry	T.O.B.	Top of Block
Dbi.	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	Mfr.	Manufacturer	Typ.	Typical
D.S.	Drawer Stack	Micro.	Microwave	UCL	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	Mon.	Monolithic	VL.	Versalram
Elec.	Electrical	N.T.S.	Not to Scale	VTR	Vent through Roof
Elev.	Elevation	Opn'g.	Opening	W	Washer
Ext.	Exterior	Opt.	Optional	W/	With
Exp.	Expansion	Pc.	Piece	W/C	Water Closet
F.B.C.	Florida Bldg. Code	Ped.	Pedestal	W.A.	Wedge Anchor
Fin. Fir.	Finished Floor	PL	Parallam	Wd	Wood
F.G.	Fixed Glass	PLF	Pounds per linear foot	WP	Water Proof

INDEX OF SHEETS

SHEET	DESCRIPTION
A-1	COVER SHEET
A-2	FLOOR PLAN
A-3	ELEVATIONS FRONT AND REAR
A-4	ELEVATIONS SIDES
A-5	FOUNDATION PLAN
A-6	ROOF PLAN
A-7	MASONRY DETAILS
A-8	ELECTRICAL PLAN



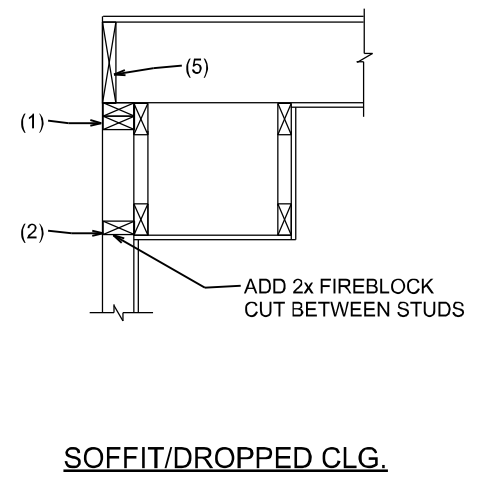
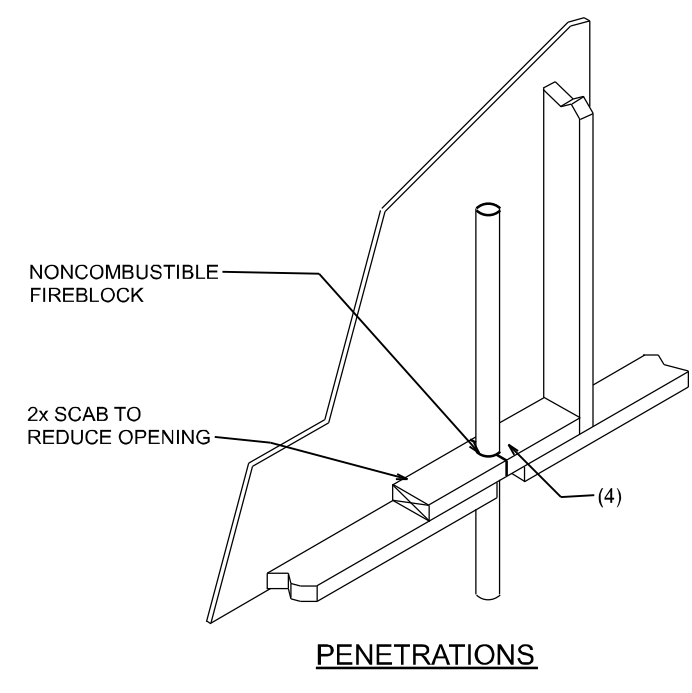
REVISIONS			DESIGN BY:	CERTIFIED GENERAL CONTRACTOR CGC1514780	CERTIFICATE OF AUTHORIZATION NO. 28022	<div><div><div></div><div>Digitally signed by Brett A. Crews Date: 2020.10.13 08:57:58-04'00'</div></div><div>Brett A. Crews, P.E. 65592</div></div>	DRAWN BY: TM	TERRELL RESIDENCE	PROJECT NO.: R20.003
DATE	BY	DESCRIPTION							
			TRADEMARK Construction Group, Inc.	750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254	CES Crews Engineering Services, LLC	349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303			



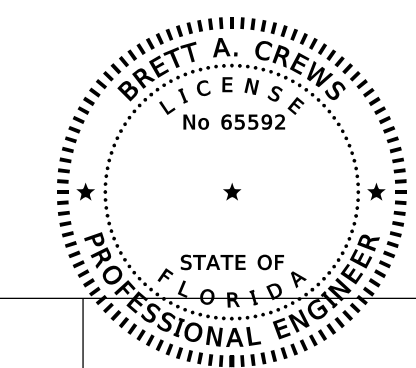
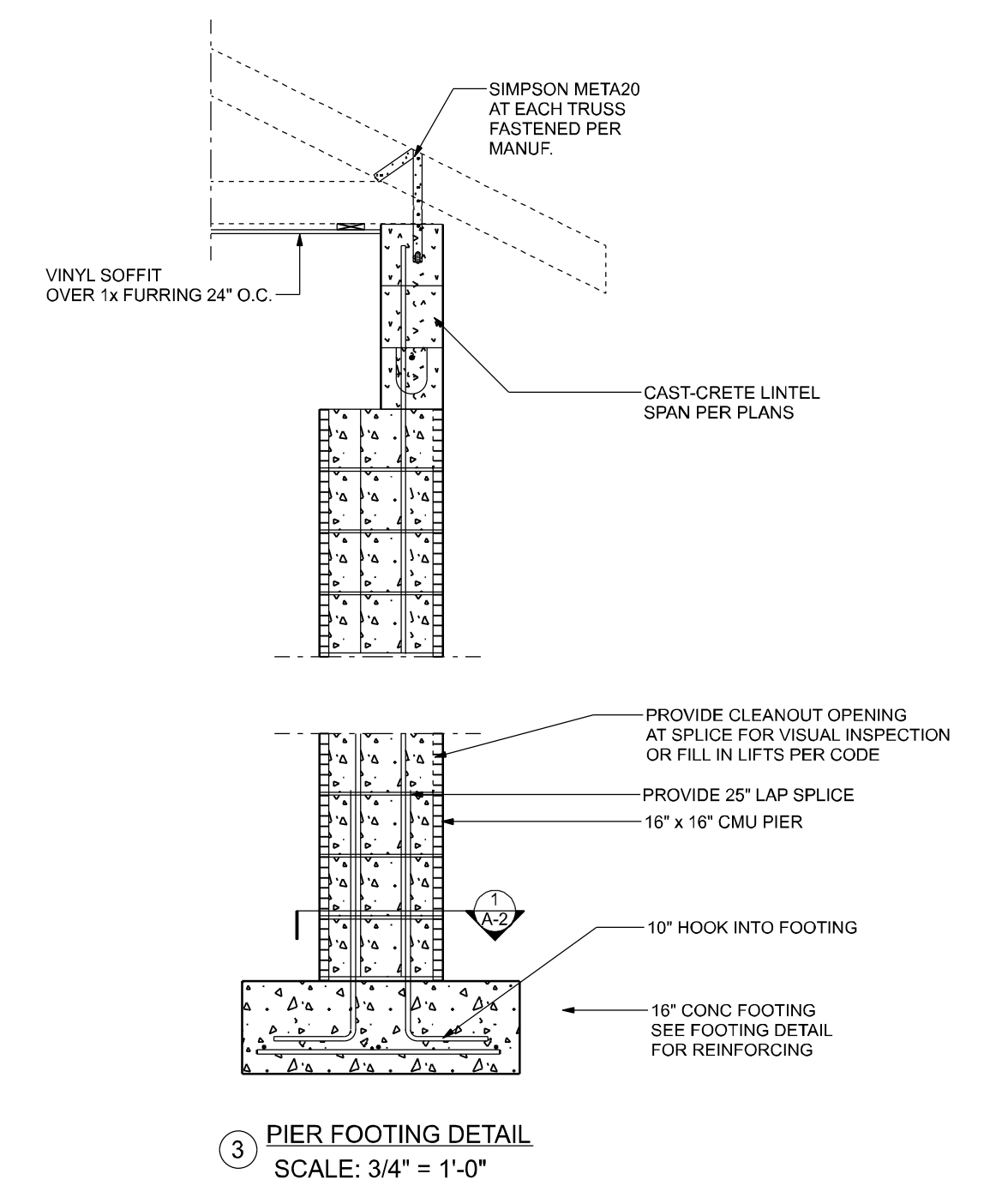
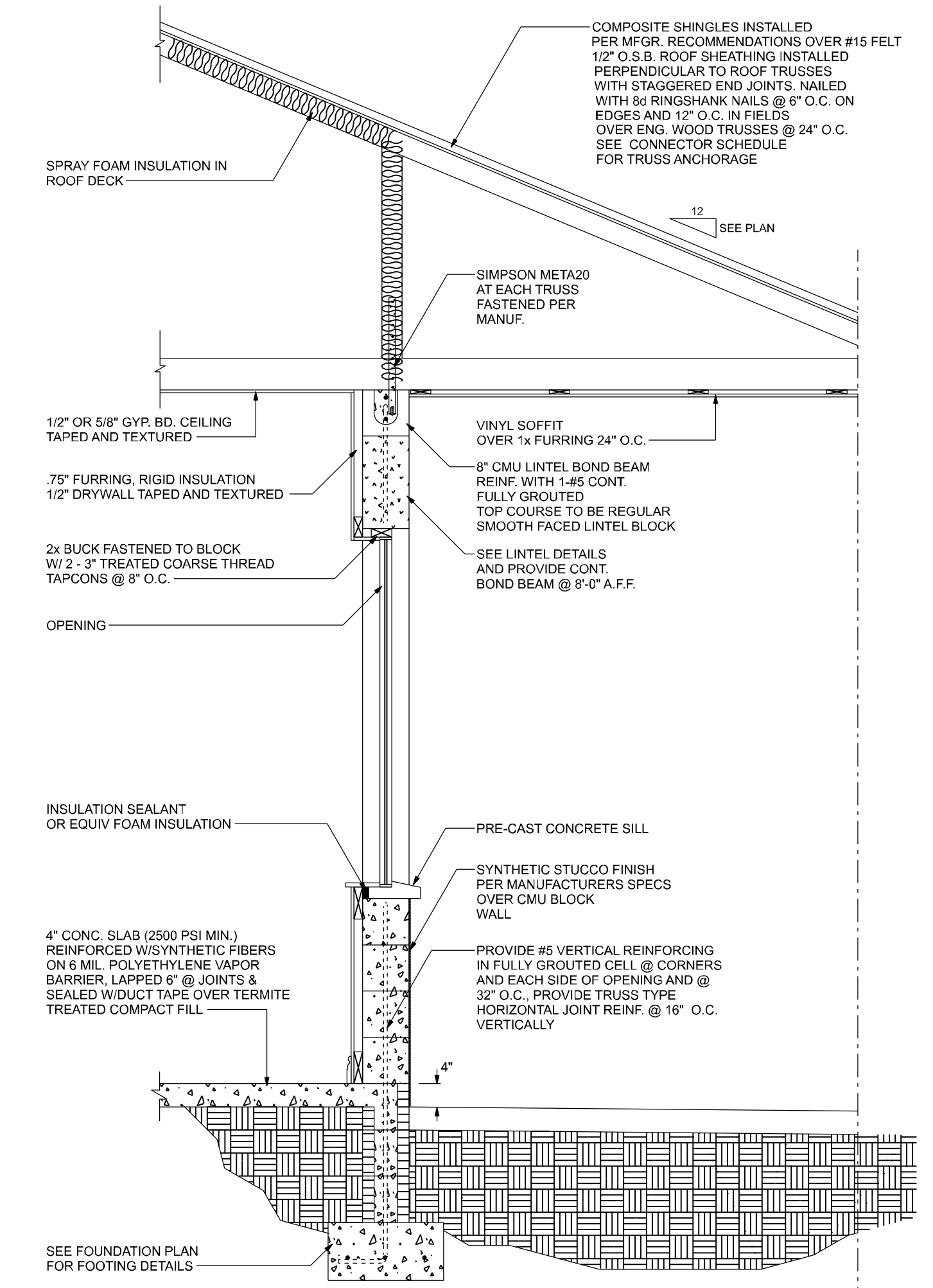
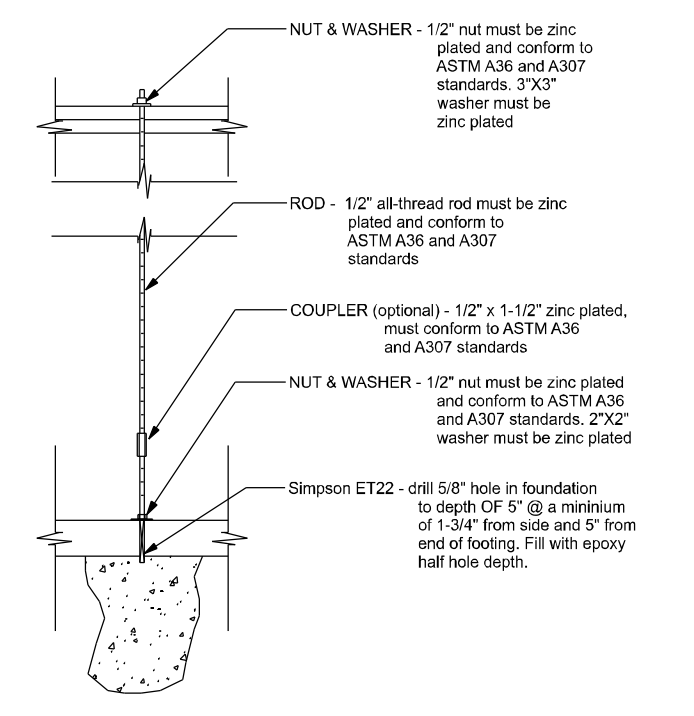
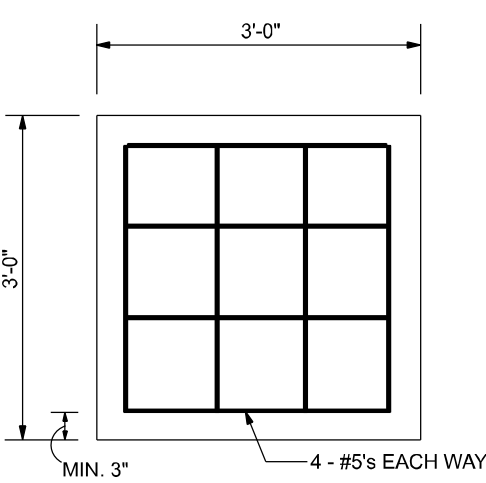
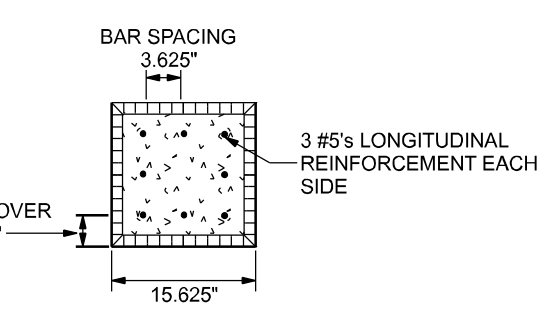
AREA SUMMARY	
HEATED	3,445 SF
GARAGE	820 SF
FRONT PORCH	384 SF
PATIO/BBQ	688 SF
TOTAL	5,337 SF

FIREBLOCKING NOTES:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.
2. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL AND HORIZONTAL SPACES SUCH AS OCCUR AT SOFFITS, DROP CEILINGS, COVE CEILINGS, ETC.
3. IN CONCEALED SPACES BETWEEN STAIR STRINGERS AT THE TOP AND BOTTOM OF THE RUN.
4. AT OPENINGS AROUND VENTS, PIPES, DUCTS, CHIMNEYS AND FIREPLACES AT CEILING AND FLOOR LEVELS WITH PYROFLEX MULTIFLEX SEALANT.
5. AT ALL INTERCONNECTIONS BETWEEN CONCEALED VERTICAL STUD WALL OR PARTITION SPACES AND CONCEALED SPACES CREATED BY AN ASSEMBLY OF FLOOR JOISTS, FIREBLOCKING SHALL BE PROVIDED FOR THE FULL DEPTH OF THE JOISTS AT THE ENDS AND OVER THE SUPPORTS.



NOTE:
ALL VERTICAL BARS IN PIERS MUST HAVE
A CLEAR DISTANCE BETWEEN BARS OF AT
LEAST 1.5 TIMES THE NOMINAL BAR DIAMETER,
BUT NOT LESS THAN 1.5 INCHES.



TYP. SECTION
SCALE: NTS

REVISIONS		
DATE	BY	DESCRIPTION

DESIGN BY:
TRADEMARK
Construction Group, Inc.

CERTIFIED GENERAL CONTRACTOR
CGC1514780

750 SW MAIN BLVD.
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:
TM

APPROVED BY:
BC

TERRELL RESIDENCE

FLOOR PLAN

PROJECT NO.:
R20.003

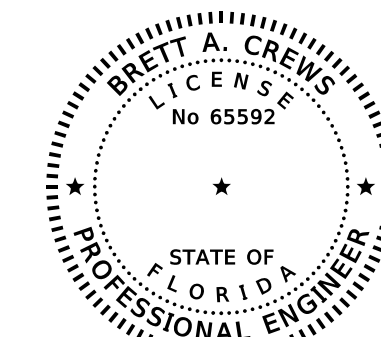
SHEET:
A-2



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



REAR ELEVATION
SCALE: 1/4" = 1'-0"



REVISIONS		
DATE	BY	DESCRIPTION

DESIGN BY:

TRADEMARK
Construction Group, Inc.

CERTIFIED GENERAL CONTRACTOR
CGC1514780

750 SW MAIN BLVD.
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CES
Crews Engineering Services, LLC

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349 SW CREWS FARM TERRACE
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PHONE: 386.623.4303

Digitally signed
by Brett A. Crews
Date: 2020.10.13
08:59:42-04'00'

Brett A. Crews, P.E. 65592

DRAWN BY:
TM

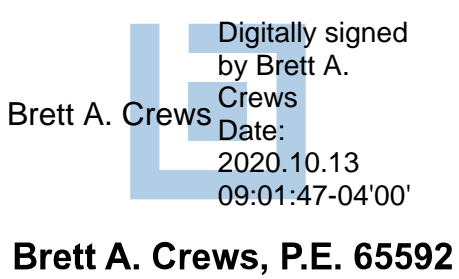
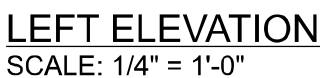
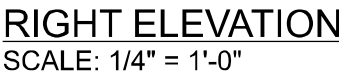
APPROVED BY:
BC

PROJECT NO.:
R20.003

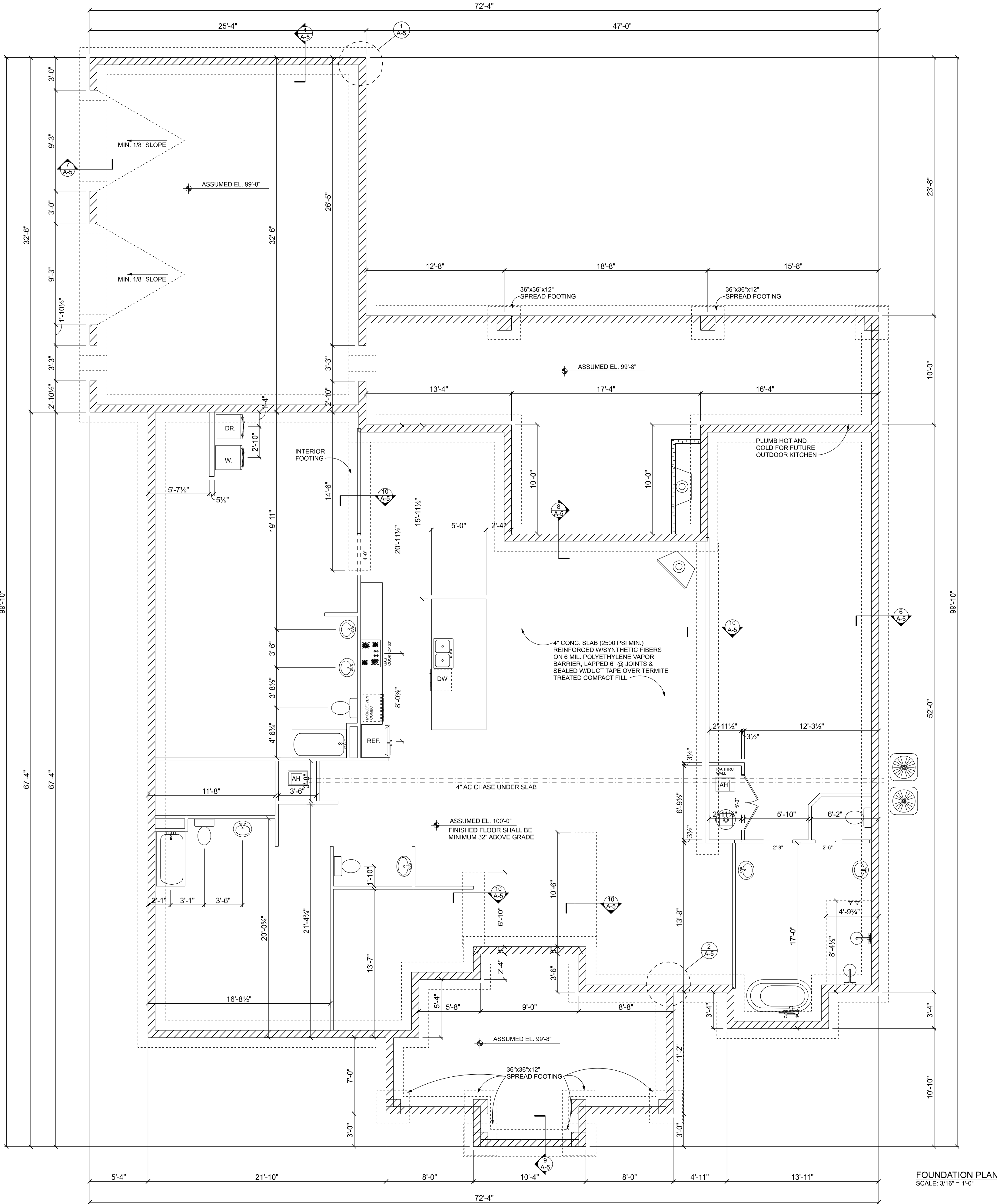
TERRELL RESIDENCE

ELEVATIONS FRONT AND REAR

SHEET:
A-3



REVISIONS			DESIGN BY:	CERTIFIED GENERAL CONTRACTOR	 CES Crews Engineering Services, LLC	CERTIFICATE OF AUTHORIZATION	 Digitally signed by Brett A. Crews Date: 2020.10.13 09:01:47-04'00' Brett A. Crews, P.E. 65592	DRAWN BY:	TERRELL RESIDENCE	PROJECT NO.:
DATE	BY	DESCRIPTION	 TRADEMARK Construction Group, Inc.	CGC1514780		750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254		NO. 28022		APPROVED BY:
						349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303		TM		
								BC		SHEET: A-4



FOUNDATION NOTES

CONCRETE: CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 2500 PSI AT 28 DAYS.

REINFORCING STEEL: THE REINFORCING STEEL SHALL BE MINIMUM GRADE 40.

COVER OVER REINFORCING STEEL: FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE 3 INCHES IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH OR WEATHER AND 1 1/2 INCHES ELSEWHERE. REINFORCING BARS EMBEDDED IN GROUTED CELLS SHALL HAVE A MINIMUM CLEAR DISTANCE OF 1/4 INCH FOR FINE GROUT OR 1/2 INCH FOR COARSE GROUT BETWEEN REINFORCING BARS AND ANY FACE OF A CELL. REINFORCING BARS USED IN MASONRY WALLS SHALL HAVE A MASONRY COVER (INCLUDING GROUT) OF NOT LESS THAN 2 INCHES FOR MASONRY UNITS WITH FACE EXPOSED TO EARTH OR WEATHER 1 1/2 INCHES FOR MASONRY UNITS NOT EXPOSED TO EARTH OR WEATHER.

REINFORCEMENT MAY BE BENT IN THE SHOP OR THE FIELD PROVIDED: 1. ALL REINFORCEMENT IS BENT COLD. 2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS AND 3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT. EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONCRETE SHALL BE PERMITTED TO BE BENT AT A SLOPE OF NOT MORE THAN 1 INCH OF HORIZONTAL DISPLACEMENT TO 6 INCHES OF VERTICAL BAR LENGTH.

GALVANIZATION: METAL ACCESSORIES FOR USE IN EXTERIOR WALL CONSTRUCTION AND NOT DIRECTLY EXPOSED TO THE WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A 153, CLASS B-2. METAL PLATE CONNECTORS, SCREWS, BOLTS AND NAILS EXPOSED DIRECTLY TO THE WEATHER SHALL BE STAINLESS STEEL OR HOT DIPPED GALVANIZED.

CONCRETE SLABS ON GRADE:

1. ALL INTERIOR AND EXTERIOR SLABS AND WALKWAYS AS SHOWN ON THE STRUCTURAL OR ARCHITECTURAL PLANS, SHALL BE FOUR INCHES THICK MINIMUM REINFORCED WITH 6 X 6 - W14 X W14 WELDED WIRE FABRIC (UNLESS OTHERWISE NOTED).

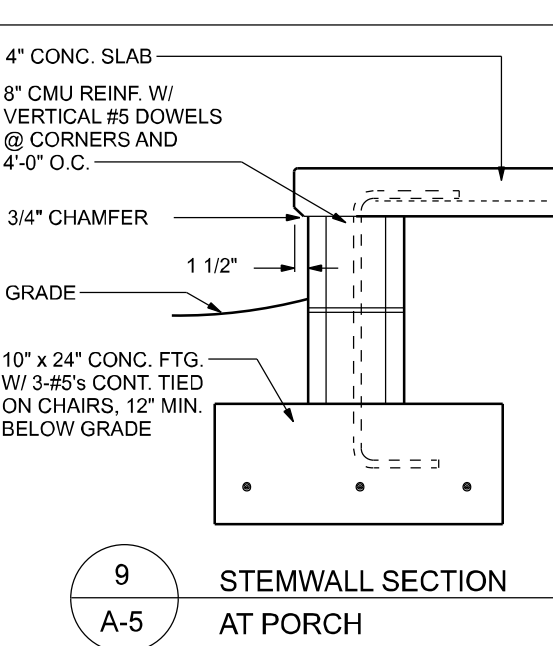
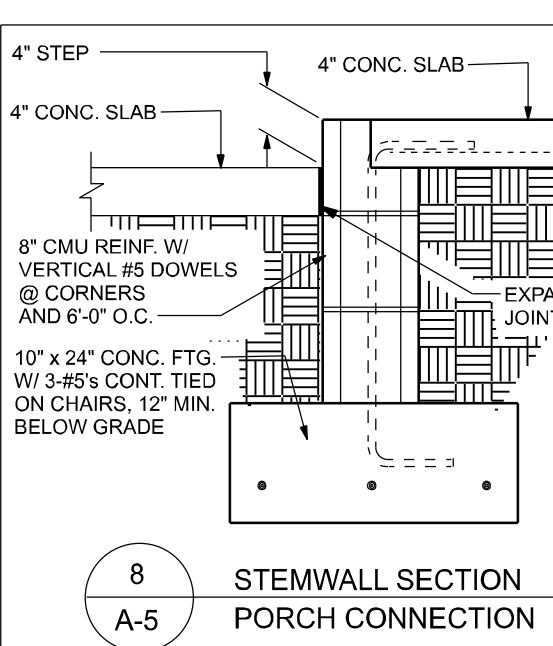
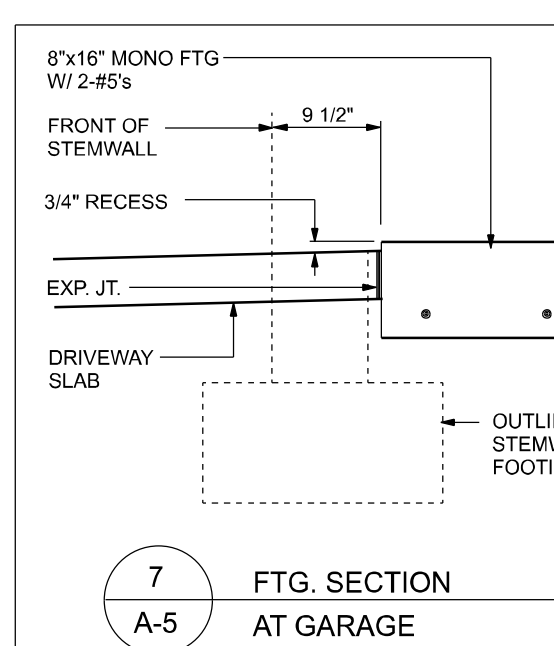
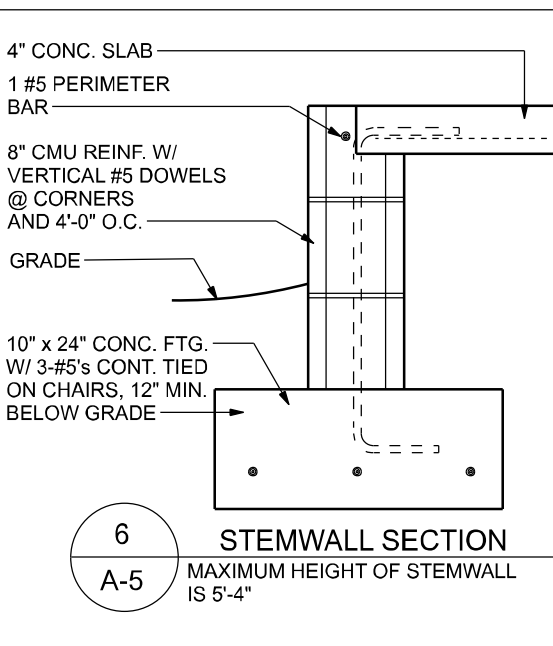
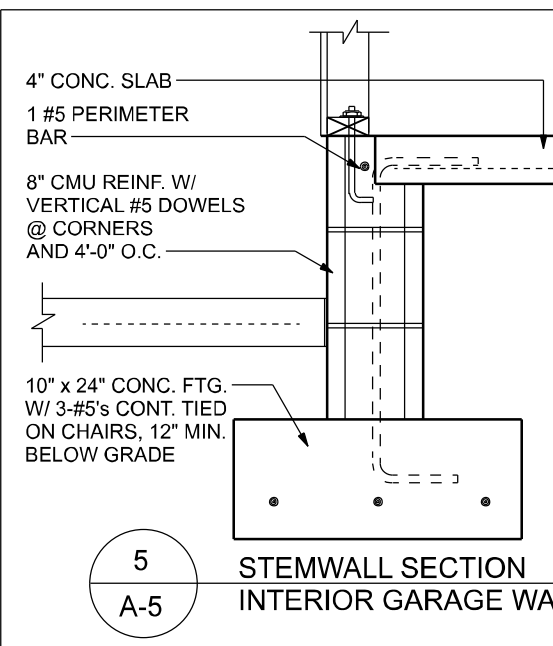
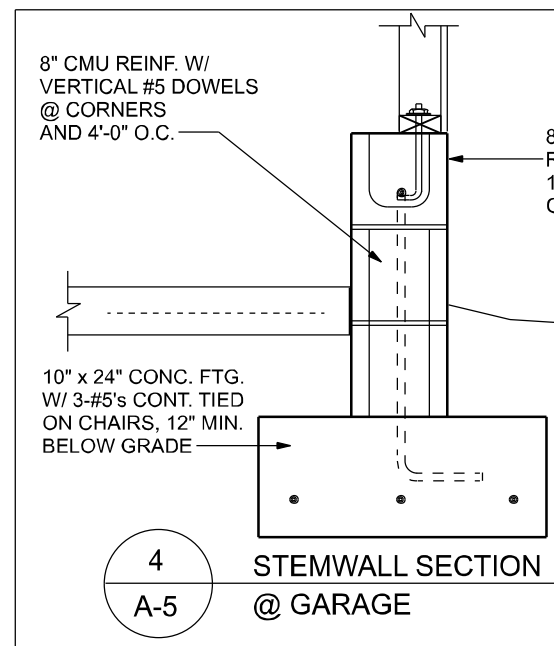
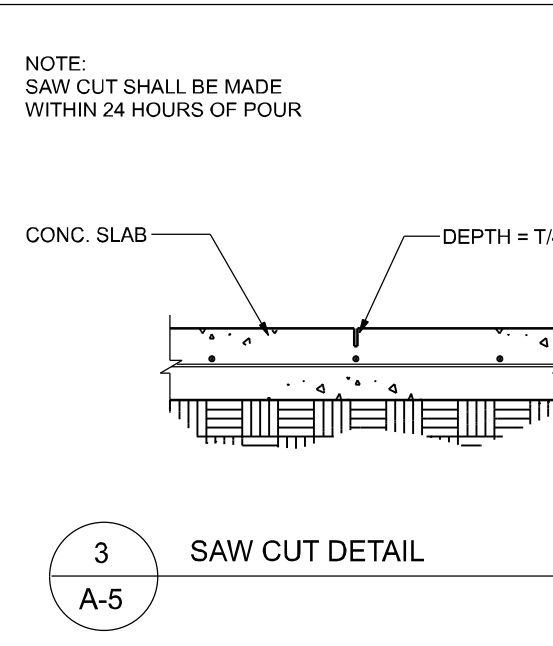
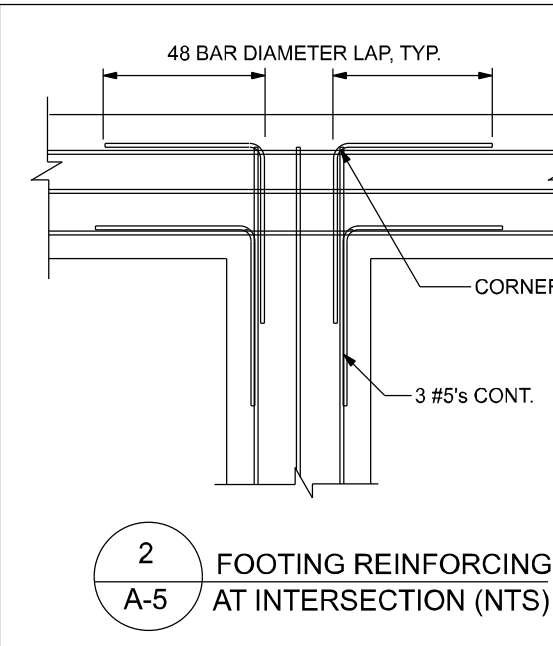
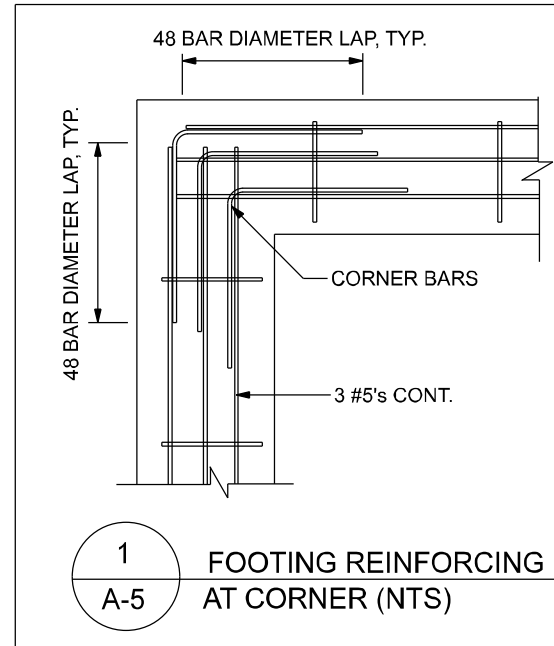
2. ALL SLABS ON GRADE TO BE CONSTRUCTED IN ACCORDANCE WITH LATEST A.C.I. "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION" (A.C.I. 302.1R).

3. JOINTS SHALL BE PROVIDED IN ALL INTERIOR SLABS ON GRADE AT COLUMN CENTER LINES DIVIDING THE SLAB INTO SQUARE PANELS NOT TO EXCEED 20 X 20 FT. IN SIZE. CAST SLAB IN LONG ALTERNATE STRIPS. PROVIDE A CONTRACTION JOINT BETWEEN EACH STRIP. SEE PLAN FOR SAW-CUT, CONTRACTION AND ISOLATION JOINT DETAILS.

4. PROVIDE SAW-CUT JOINTS AT ALL SIDEWALKS AT A MAXIMUM SPACING OF FIVE FEET ON CENTERS AND ISOLATION JOINTS AT 20 FEET O.C. (U.O.N.).

5. FILL MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING 12" AND COMPACTED TO 98 % MODIFIED PROCTOR (ASTM D-1557) WITHIN A DISTANCE OF 3 FEET BEYOND ALL FOOTING EDGES. TAKE AT LEAST ONE DENSITY TEST FOR EACH 1,600 SQ. FT. OF AREA AND 12" BELOW SURFACE. SEND RESULTS OF THE TEST TO OWNER, ARCHITECT AND ENGINEER.

6. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACEMENT AND SHALL BE THOROUGHLY WORKED AROUND REINFORCEMENT AND EMBEDDED FIXTURES AND ALL FORMS AND KEYWAYS.



NOTE: DETAILS MAY NOT DEPICT ACTUAL STEMWALL HEIGHT. CONTRACTOR SHALL VERIFY FINISHED FLOOR ELEVATION AND STEMWALL HEIGHT IN FIELD.

GENERAL NOTES:

- THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FROM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
- THE CONTRACTOR AND/OR SUB-CONTRACTORS SHALL WARRANT ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING THE WORK DATE OF FINAL COMPLETION AND ACCEPTANCE BY THE OWNER. DEFECTS IN MATERIALS, EQUIPMENT, COMPONENTS AND WORKMANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
- AT THE OWNER'S OPTION, A WARRANTY INSPECTION SHALL BE PERFORMED DURING THE ELEVENTH MONTH FOLLOWING THE COMMENCEMENT OF THE WARRANTY PERIOD, FOR THE PURPOSE OF DETERMINING ANY WARRANTY WORK THAT MAY BE REQUIRED. THE CONTRACTOR SHALL BE PRESENT DURING THIS INSPECTION IF REQUESTED BY THE OWNER.
- THE CONTRACTOR SHALL PAY FOR ALL PERMITS, LICENSES, TESTS AND THE LIKE THAT MAY BE REQUIRED BY THE VARIOUS AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT BE THEY CITY, COUNTY, STATE OR FEDERAL.
- THE OWNER SHALL FILE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OF THE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TO OWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMENT REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
- ANY AND ALL DISPUTES ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT BETWEEN THE OWNER, CONTRACTOR(S) AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARBITRATION.
- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATIONS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONENTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGY REQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO THE COMMENCEMENT OF THE WORK.
- ALL INSULATION SHALL BE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WINDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFFICIAL.
- ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESURE TREATED.

CONSTRUCTION DOCUMENTS:

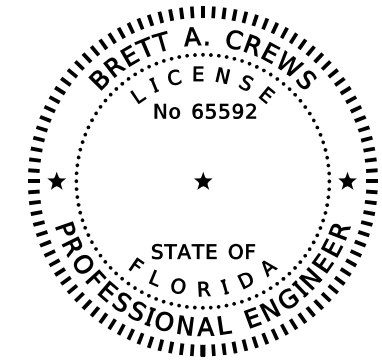
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO COMMENCING CONSTRUCTION INCLUDING FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR RESOLUTION.

DO NOT SCALE THESE PLANS:

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

CHANGES TO PLAN SETS:

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THESE PLANS WITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. 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 SPECIFICATIONS ON THE PLANS.



REVISIONS		
DATE	BY	DESCRIPTION

DESIGN BY:

TRADEMARK
Construction Group, Inc.

CERTIFIED GENERAL CONTRACTOR
CGC1514780

750 SW MAIN BLVD.
LAKE CITY, FL. 32025
(386)755-5254

CES
Crews Engineering Services, LLC

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:

TM

APPROVED BY:

BC

TERRELL RESIDENCE

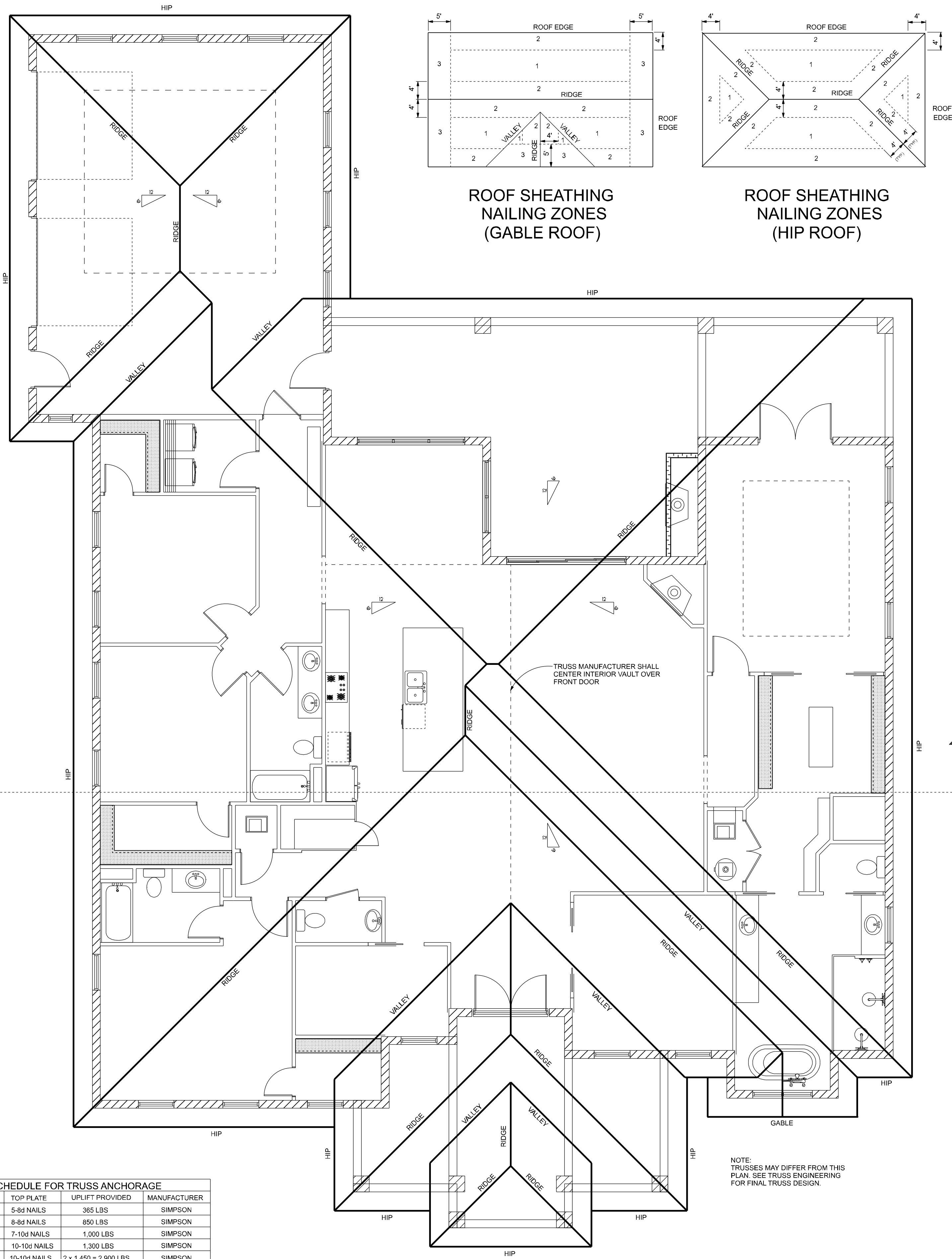
FOUNDATION PLAN

PROJECT NO.:

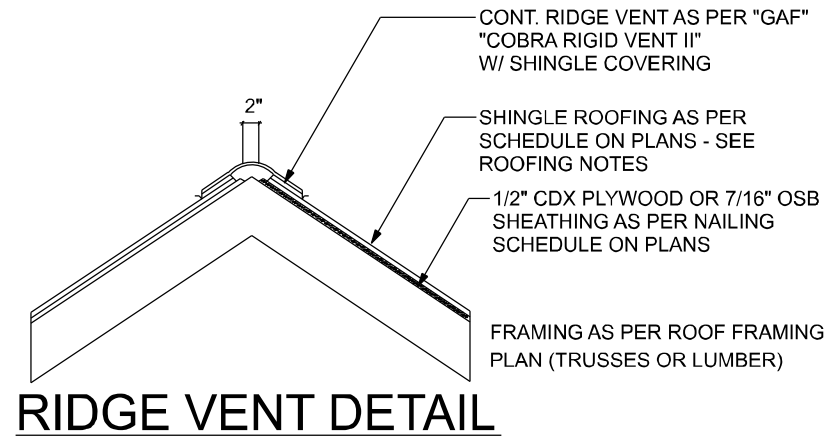
R20.003

SHEET:

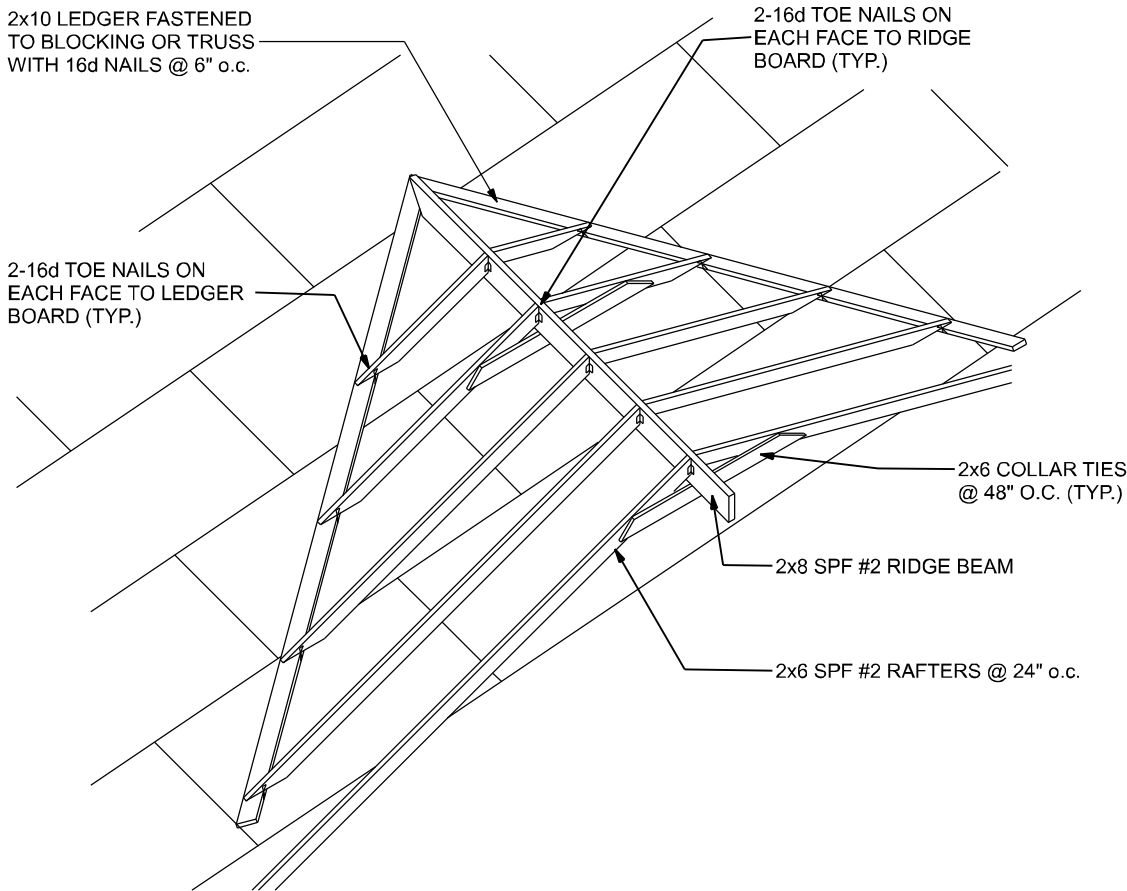
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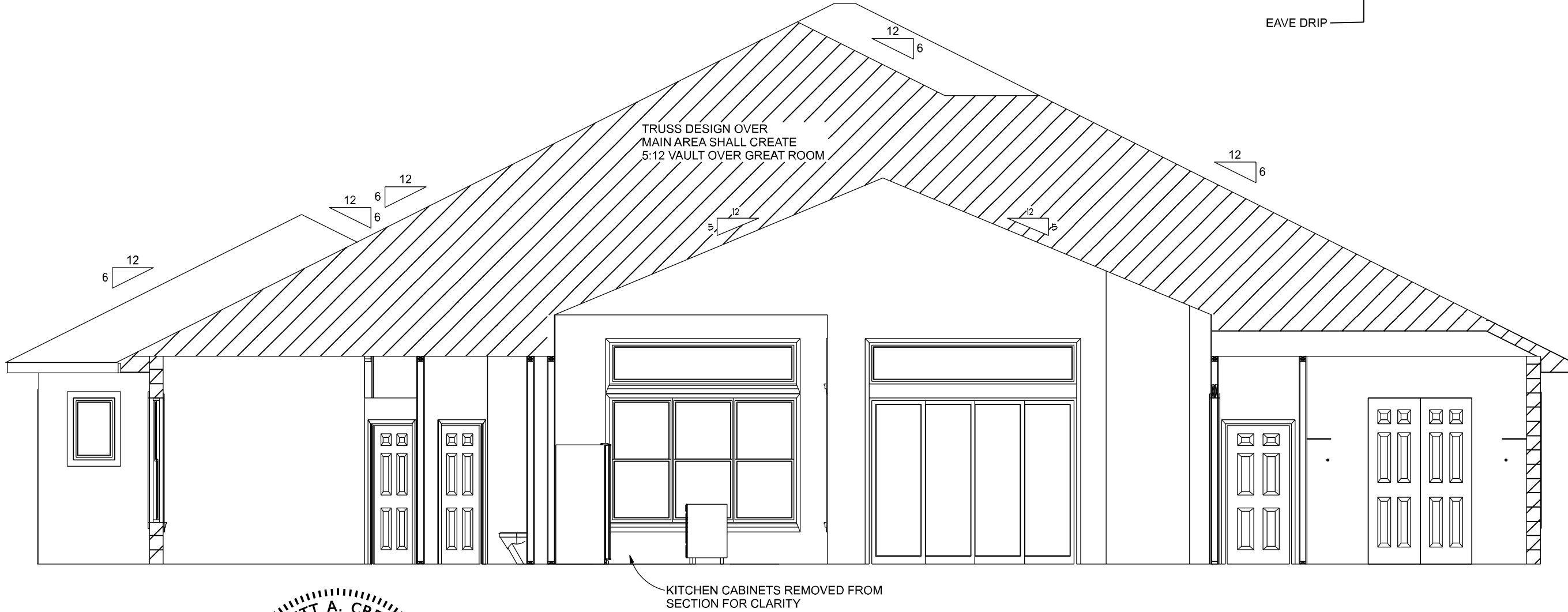
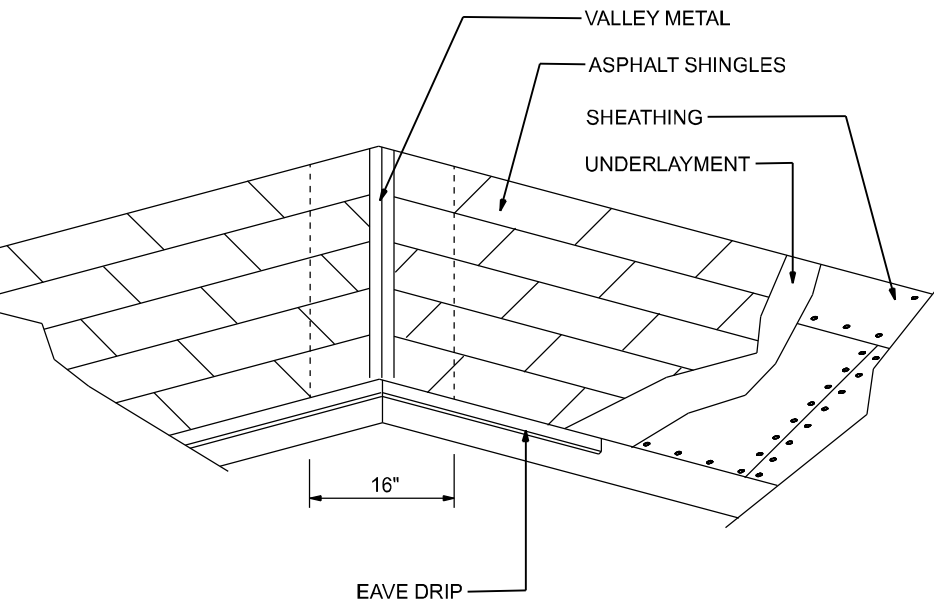
ROOF SHEATHING FASTENERS			
NAILING ZONE	SHEATHING TYPE	FASTENER	SPACING
1			6" O.C. EDGE 12" O.C. FIELD
2	1/2" OSB	8D GALV. RING SHANK NAILS	6" O.C. EDGE 6" O.C. FIELD
3 (N/A)			4" O.C. @ GABLES 6" O.C. EDGE 6" O.C. FIELD



NOTE:
VENTING SHALL BE PROVIDED SUCH THAT TOTAL
NET FREE VENTILATING AREA SHALL NOT BE
LESS THAN 1/150 OF THE AREA OF THE SPACE
VENTILATED



ROOF INTERSECTION CONNECTION DETAIL
NTS



A SECTION
NTS

CONNECTOR SCHEDULE FOR TRUSS ANCHORAGE				
CONNECTOR	TRUSS	TOP PLATE	UPLIFT PROVIDED	MANUFACTURER
H2.5	5-8d NAILS	5-8d NAILS	365 LBS	SIMPSON
H10	8-8d NAILS	8-8d NAILS	850 LBS	SIMPSON
MTS12	7-10d NAILS	7-10d NAILS	1,000 LBS	SIMPSON
H16	2-10d NAILS	10-10d NAILS	1,300 LBS	SIMPSON
(2)HTS20	10-10d NAILS	10-10d NAILS	2 x 1,450 = 2,900 LBS	SIMPSON

NOTE:
TRUSSES MAY DIFFER FROM THIS
PLAN. SEE TRUSS ENGINEERING
FOR FINAL TRUSS DESIGN.

REVISIONS

DATE	BY	DESCRIPTION

DESIGN BY:

TRADEMARK
Construction Group, Inc.

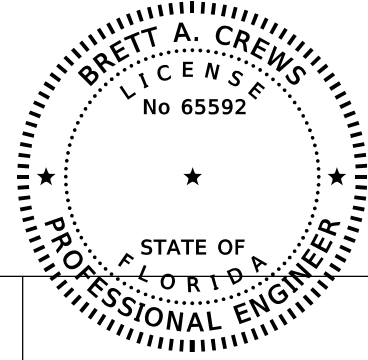
CERTIFIED GENERAL CONTRACTOR
CGC1514780

750 SW MAIN BLVD.
LAKE CITY, FL. 32025
(386)755-5254

CES
Crews Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION
NO. 28022

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



Digitally signed by
Brett A. Crews
Date: 2020.10.13
09:03:02-0400'

Brett A. Crews, P.E. 65592

DRAWN BY:

TM

APPROVED BY:

BC

TERRELL RESIDENCE

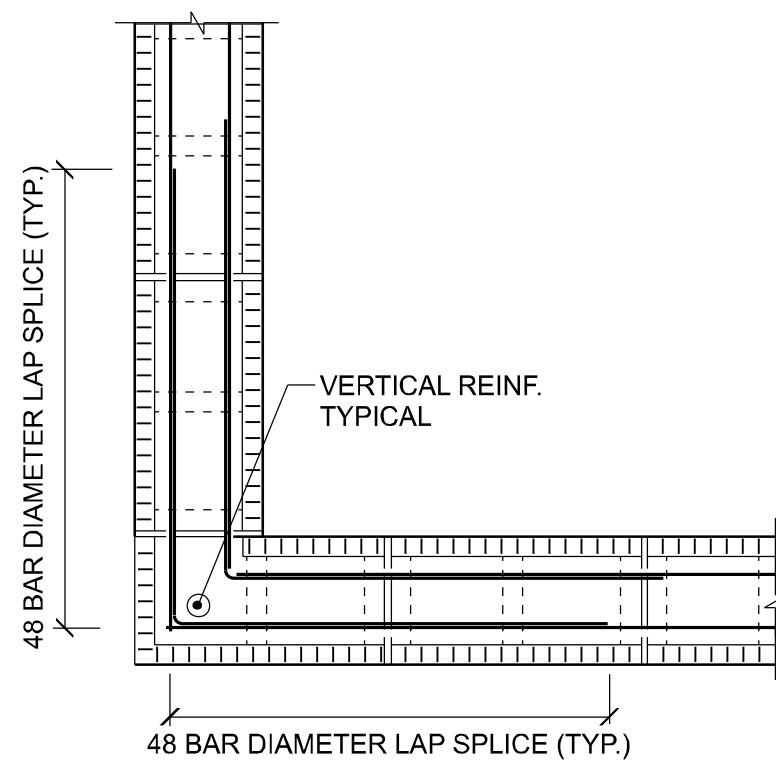
ROOF PLAN

PROJECT NO.:

R20.003

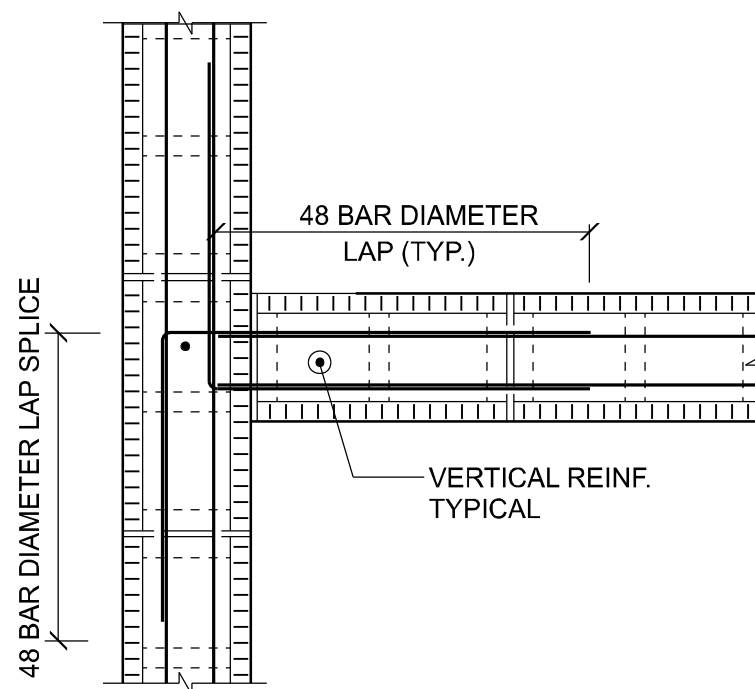
SHEET:

A-6



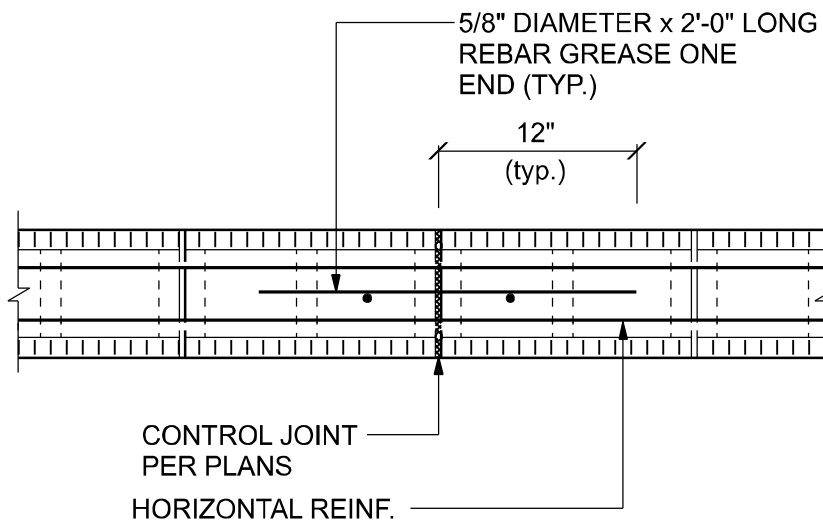
BOND BEAM AT CORNER

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



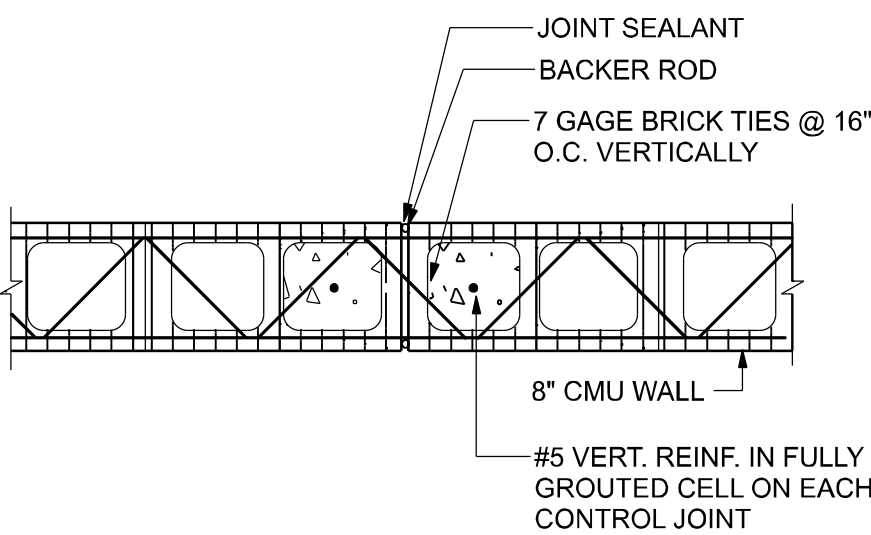
BOND BEAM AT INTERSECTION

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



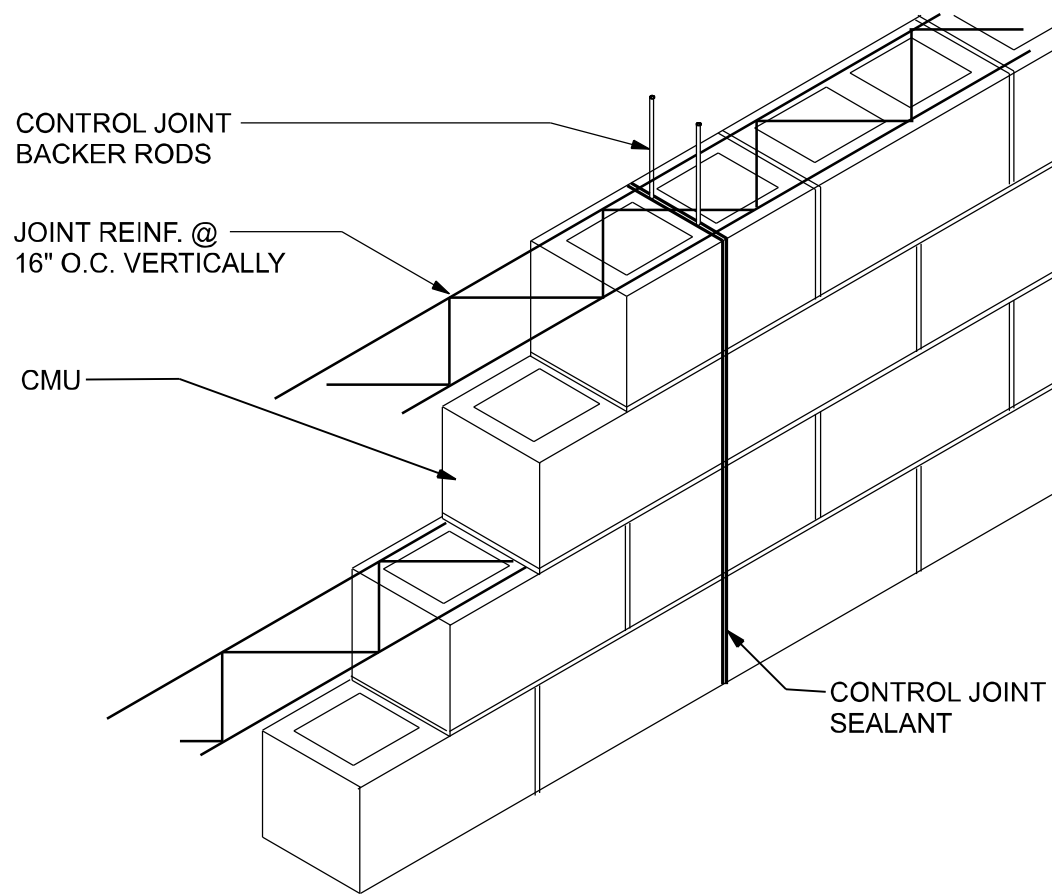
BOND BEAM AT CONTROL JOINT

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



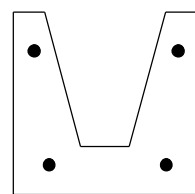
CONTROL JOINT PLAN

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



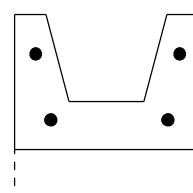
CONTROL JOINT LOCATION

NTS



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

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2-#3
B	2-#2	2-#4
C	2-#3	2-#4
D	2-#3	2-#5
E	2-#4	2-#6



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

TYPE	TOP BARS	BOTTOM BARS
A	NONE	2-#3
B	NONE	2-#4
C	2-#2	2-#4

PRECAST LINTEL OVER OPENINGS

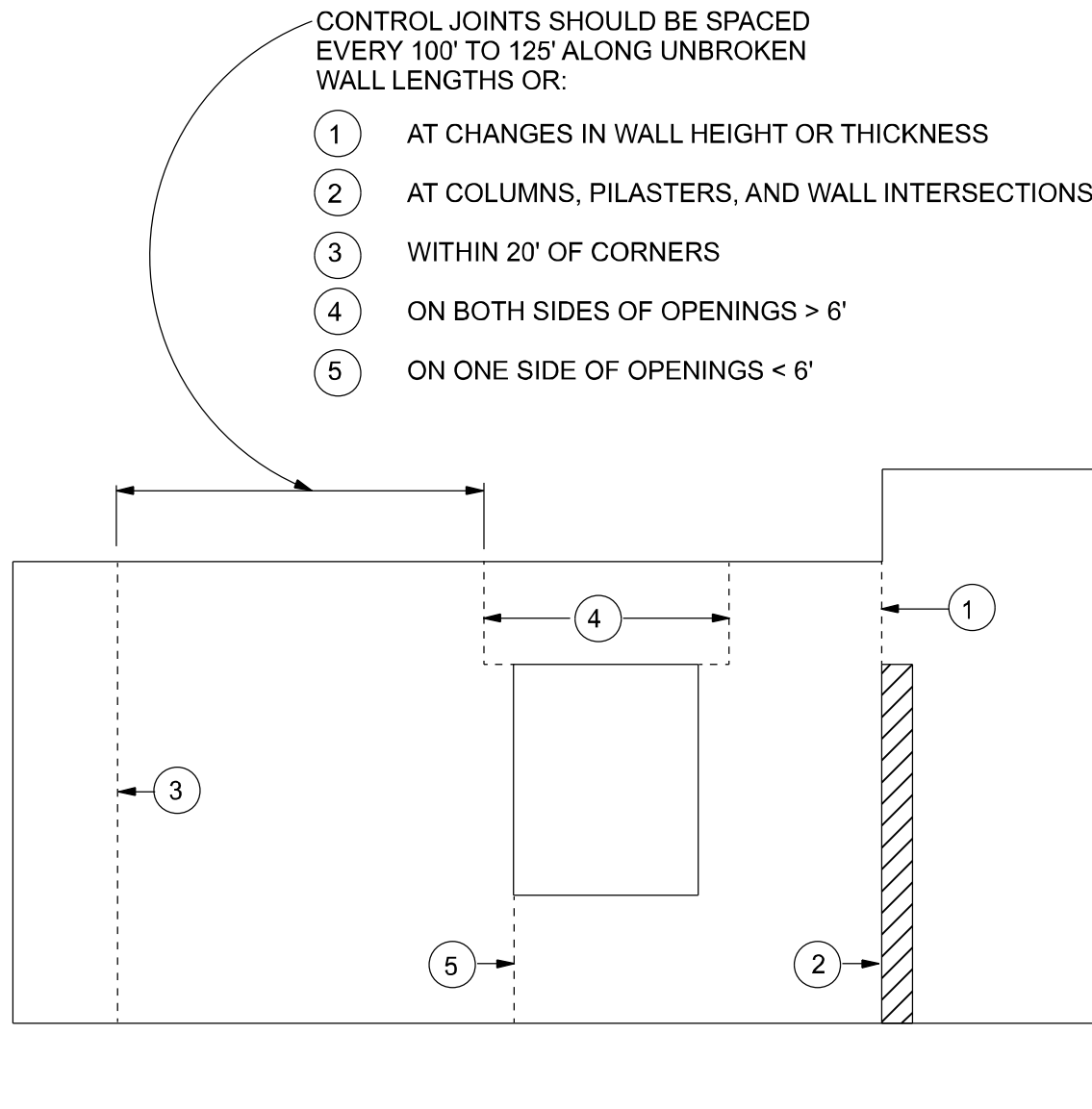
LENGTH	CLEAR SPAN	TYPE	FILLED + BEAM
4'-6"	3'-2"	A	6000+ PLF
7'-6"	6'-2"	B	5663 PLF
12'-0"	10'-8"	D	2181 PLF
17'-4"	16'-0"	E	1366 PLF

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

DOORWAY HEADER

DOOR SIZE	TYPE	FILLED + BEAM
3'-0"	A	6000+ PLF
5'-0"	B	5689 PLF
6'-0"	C	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

NTS

CMU Lintel Schedule		
OPENING	LINTEL DEPTH 8" CMU	REINF. AT TOP
4'-0" or less	16"	1-#5
over 4'-0" to 7'-4"	16"	1-#5
over 7'-4" to 11'-4"	24"	1-#5's
over 11'-4" to 14'-0"	32"	1-#5's
over 14'-0" to 16'-0"	40"	1-#5's

SEE SCHEDULE FOR REINF.

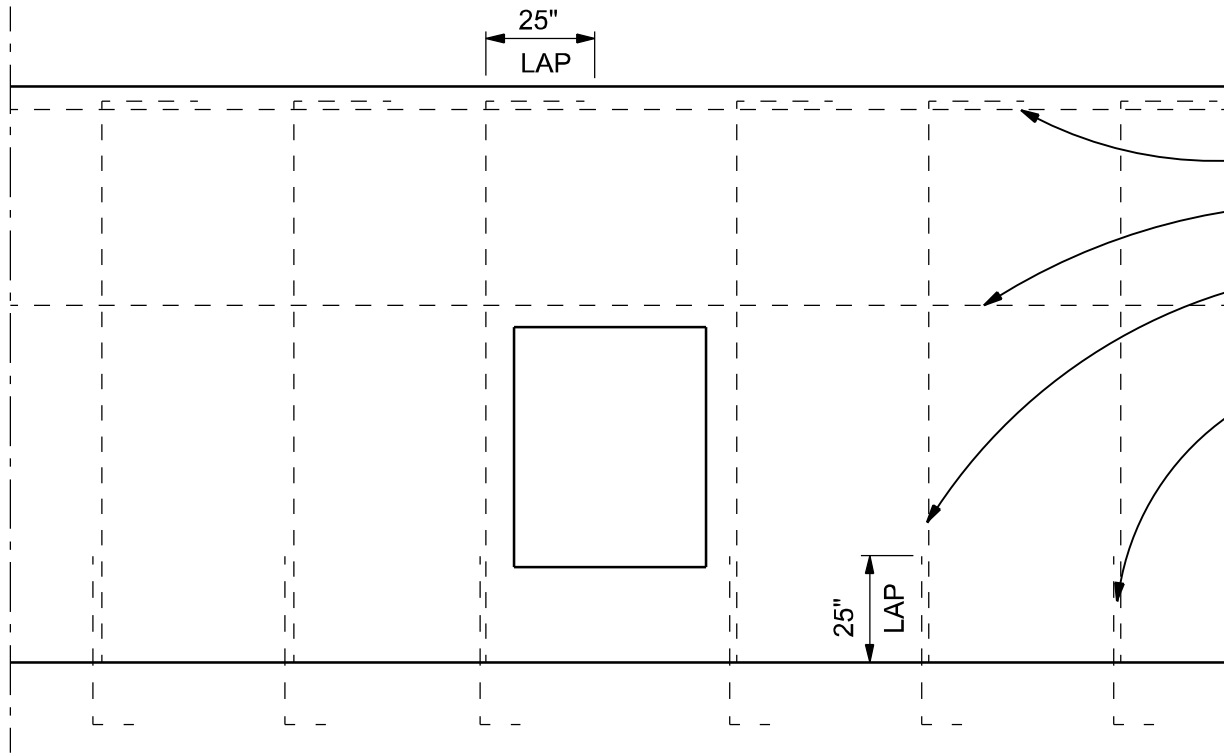
OPEN END COURSES ABOVE

VERTICAL REINF. TO MATCH BELOW

2- #5's

CLOSED BOTTOM LINTEL BLOCK

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



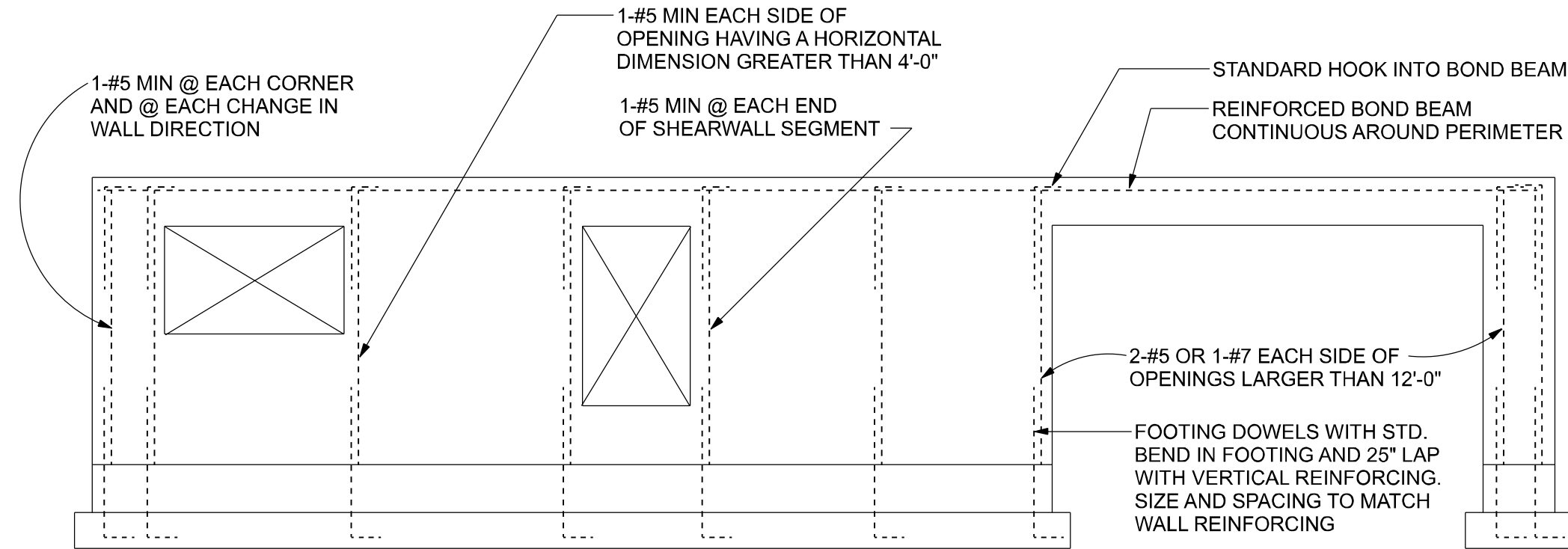
WALL REINFORCING REQUIREMENTS

NTS

GENERAL REINFORCING REQUIREMENTS

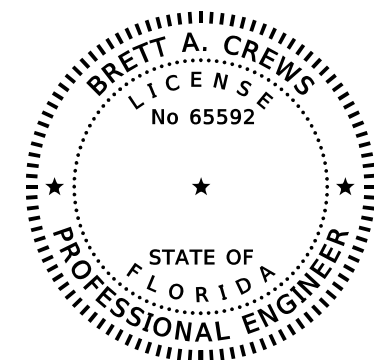
- TOP OF WALL, 1-#5 CONTINUOUS
- TOP OF WALL OPENINGS, 1-#5 CONTINUOUS
- VERTICAL REINFORCEMENT TO BE 5/8" DIAMETER MINIMUM @ 4'-0" O.C. MAXIMUM.
- FOOTING DOWELS WITH STD. BEND IN FOOTING AND 25" LAP WITH VERTICAL REINF. SIZE AND SPACING TO MATCH WALL REINF.

NOTE:
PROVIDE TRUSS TYPE JOINT REINFORCING NOT TO EXCEED 16" VERTICALLY.

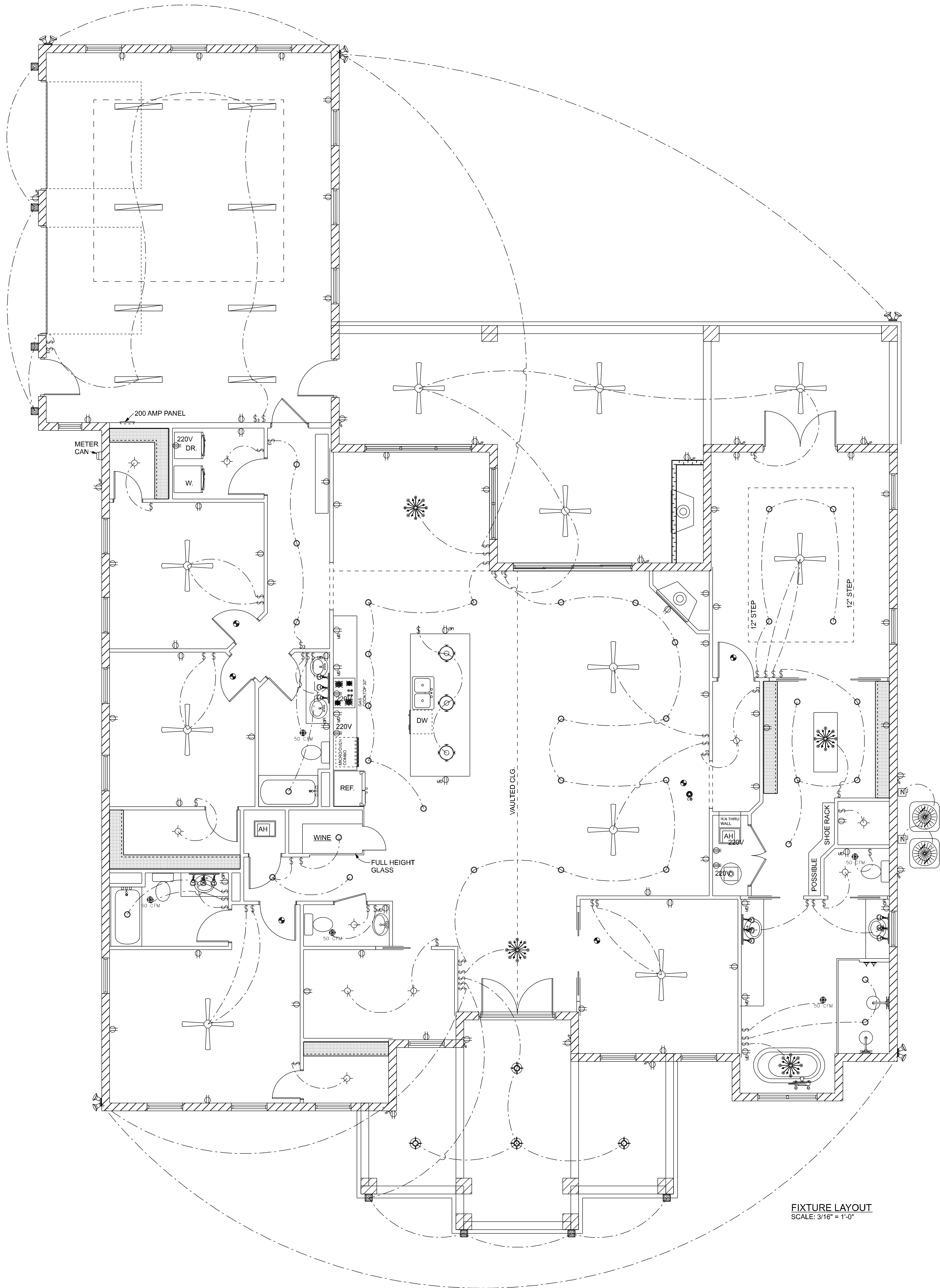


EXTERIOR WALL REINFORCEMENT SUMMARY
ONE STORY (TWO STORY SIMILAR)

NTS



REVISIONS			DESIGN BY:	CERTIFIED GENERAL CONTRACTOR	CERTIFICATE OF AUTHORIZATION	DRAWN BY:	PROJECT NO.:
DATE	BY	DESCRIPTION					
			TRADEMARK Construction Group, Inc.	CGC1514780 750 SW MAIN BLVD. LAKE CITY, FL. 32025 (386)755-5254	NO. 28022 349 SW CREWS FARM TERRACE LAKE CITY, FL 32025 PHONE: 386.623.4303	TM BC	TERRELL RESIDENCE
							MASONRY DETAILS
							R20.003
							SHEET: A-7



FIXTURE LAYOUT
SCALE: 3/16" = 1'-0"

ELECTRICAL LEGEND		
ELECTRICAL	COUNT	SYMBOL
ceiling fan & hooded 5'	11	
48" LED LINEAR LIGHT	8	
ceiling light fixture	36	
chandelier	4	
exit door pendant	4	
hanging globe	3	
recessed light 5'	8	
spotlight coupler with motion detector	5	
MOTOR	2	
NON-FUSED DISCONNECT	2	
electrical meter	1	
electrical panel	1	
100 AMP 50 C/FM	1	
for 50 C/FM	5	
light	10	
outlet	50	
outlet 220v	5	
outlet 1/2"	14	
outlet 3/4"	14	
switch detector	5	
switch	48	
switch 3-way	10	
switch wall mount	4	

WIRING NOTES:

WIRING, DISTRIBUTION EQUIPMENT AND DEVICES
A. CONDUCTORS: COPPER, IN ACCORDANCE WITH ASTM STANDARDS, SIZE REFERENCE AWG. CONDUCTORS NO. 10 AND SMALLER SIZE SOLID, NO. 8 AND LARGER, STRANDED. INSULATION OF CONDUCTOR THERMOPLASTIC, TYPE THHN (MIN. SIZE NO. 12) ANY WIRE INSTALLED OUTSIDE, UNDERGROUND, IN SLABS OR EXPOSED TO MOISTURE SHALL HAVE THWN INSULATION.
B. RACEWAYS: RIGID STEEL CONDUIT, FULL WEIGHT PIPE GALVANIZED, THREADED, AND MINIMUM 1/2 INCH EXCEPT AS NOTED OR REQUIRED FOR WIRING. ELECTRICAL METALLIC TUBING (EMT), THIN WALL PIPE, GALVANIZED, THREADED, COMPRESSION FITTINGS, AND MINIM 1/2" SIZE EXCEPT AS NOTED OR REQUIRED FOR WIRING. FLEXIBLE STEEL CONDUIT, CONTINUOUS SINGLE STRIP GALVANIZED, AND MINIMUM 1/2" SIZE EXCEPT AS NOTED OR REQUIRED FOR WIRING. PVC CONDUIT, HEAVY DUTY TYPE, SIZE AS INDICATED. SEPARATE RACEWAYS SHALL BE USED FOR EACH VOLTAGE SYSTEM.
C. DISCONNECT SWITCHES: GENERAL DUTY, HORSEPOWER RATED FOR MOTOR LOADS 250 VOLT RATING, FUSED OR NON-FUSED AS NOTED; NUMBER OF POLES AS INDICATED. ENCLOSURE NEMA 1 FOR INDOOR USE AND NEMA 3R FOR WEATHERPROOF APPLICATIONS. SWITCH TO BE SQUARE "D" OR EQUAL.
D. CIRCUIT BREAKERS: MOLDED CASE, THERMAL-MAGNETIC, QUICK MAKE, QUICK BREAK, BOLT-ON TYPE WITH MANUALLY OPERATED INSULATED TRIP-FREE HANDLE. MULTI-POLE TYPES WITH INTERNAL COMMON TRIP BAR. TERMINALS SUITABLE FOR COPPER OR ALUMINUM CONDUCTORS. INTERRUPTING CAPACITY MINIMUM 10,000 RMS SYMMETRICAL AMPERES CIRCUIT CIRCUIT BREAKERS TO BE SQUARE "D", SIEMENS OR EQUAL. TYPE AS REQUIRED.
E. PANELBOARDS: VOLTAGE, PHASING, AND AMPERE RATINGS AS INDICATED. CIRCUIT BREAKER TYPE AS INDICATED. BUSS BARS OF HARD DRAWN COPPER, MINIMUM 98% CONDUCTIVITY, GALVANIZED STEEL BACK BOX, DOOR AND TRIM. ALL CORNERS LAPPED AND WELDED. HARDWARE CHROME PLATED WITH FLUSH LOCK AND CATCH. HINGES SEMI-CONCEALED, 5 KNUCKLES STEEL WITH NONFERROUS PINS. 180 DEGREE OPENINGS. MINIMUM GUTTER SPACE 5-3/4" SIDES, TOP AND BOTTOM. INCREASE SIZE WHERE REQUIRED BY CODE. DIRECTORY HOLDER COMPLETE WITH CLEAR PLASTIC TRANSPARENT COVER INDICATING TYPWRITTEN LIST OF FEEDER CABLES, CONDUIT SIZES, CIRCUIT NUMBER, OUTLETS OF EQUIPMENT SUPPLIED, AND THEIR LOCATION. CIRCUIT BREAKER TYPE PANELBOARDS TO BE SQUARE "D" TYPE WOOD OR LINE, OR EQUAL. A PLASTIC LABEL SHALL BE LOCATED ON EXTERIOR OF PANELBOARD IDENTIFYING THE SYSTEM VOLTAGE, PHASE, AND CURRENT RATING.
F. WIRING DEVICES: ALL DEVICES THEIR PRODUCT OF THE SAME MANUFACTURER. WALL SWITCHES AND RECEPTACLES TO BE 20 AMP, 125 VOLT, UNLESS NOTED OTHERWISE. COLOR TO BE SELECTED BY ARCHITECT.
G. DEVICE PLATES: PROVIDE FOR ALL OUTLETS WHERE DEVICES ARE INSTALLED. PROVIDE ENGRAVED MARKING FOR SPECIAL OUTLETS (WHERE NOTED). PROVIDE BLANK PLATES FOR EMPTY OR FUTURE OUTLET BOXES. DEVICE AND DEVICE PLATE COLORS TO BE VERIFIED WITH ARCHITECT AND OWNER.

GROUNDING SYSTEM:

A. EQUIPMENT: GROUND NON-CURRENT CARRYING METAL PARTS OF PANEL BOARD, RACEWAYS AND ALL LIGHTING FIXTURES. ALL CONDUIT SHALL HAVE EQUIPMENT GROUNDING CONDUCTORS.

INSTALLATION:

A. SECURE ALL SUPPORTS TO BUILDING STRUCTURE AS SPECIFIED UNDER RACEWAYS. SUPPORT HORIZONTAL RUNS OF METALLIC CONDUIT NOT MORE THAN 10 FEET APART. RUN EXPOSED RACEWAYS PARALLEL WITH OR AT RIGHT ANGLES TO WALLS.
B. PASS RACEWAYS OVER WATER, STEAM OR OTHER PIPING WHEN PULL BOXES ARE NOT REQUIRED. NO RACEWAY WITHIN 3 INCHES OF STEAM OR HOT WATER PIPES, OR APPLIANCES. EXPECT CROSSING WHERE THE RACEWAY SHALL BE AT LEAST 2 INCHES FROM PIPE COVER.
C. CUT CONDUIT ENDS SQUARE. REAM SMOOTH. PAINT MALE THREADS OF FIELD THREADED CONDUIT WITH GRAPHITE BASED PIP COMPOUND. DRAW UP TIGHT WITH CONDUIT COUPLINGS.
D. LEAVE WIRE SUFFICIENTLY LONG TO PERMIT MAKING FINAL CONNECTIONS. IN RACEWAY OVER 50 FEET IN WHICH WIRING IS NOT INSTALLED, FURNISH PULL WIRE.
E. VERIFY LOCATIONS OF OUTLETS AND SWITCHES.
F. SUPPORT PANEL, JUNCTION AND PULL BOXES INDEPENDENTLY TO BUILDING STRUCTURE WITH NO WEIGHT BEARING ON CONDUITS.
G. CONNECT CONDUIT TO MOTOR CONDUIT TERMINAL BASES WITH FLEXIBLE CONDUIT; MINIMUM 18 INCHES IN LENGTH AND 50% SLACK. DO NOT TERMINATE IN OR FASTEN RACEWAYS TO MOTOR FOUNDATION.
H. THIS CONTRACTOR SHALL PROVIDE A TEMPORARY ELECTRICAL DISTRIBUTION SYSTEM AS REQUIRED: 120/208 VOLT, 1 PHASE, 100 AMP. FOR NEW CONSTRUCTION. ALL TEMPORARY WORK SHALL BE INSTALLED IN A NEAT AND SAFE MANNER.
I. CONTRACTOR TO REMOVE AND SALVAGE ALL ABANDONED ELECTRICAL EQUIPMENT.
J. THIS CONTRACTOR SHALL WARRANT ALL LABOR AND MATERIALS FOR ONE YEAR FROM DATE OF FINAL WRITTEN ACCEPTANCE.

ELECTRICAL PLAN NOTES

WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.

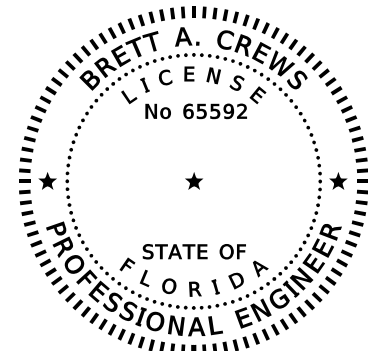
CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.

INSTALLATION SHALL BE PER NAT'L. ELECTRIC CODE.

ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.

TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNERS DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.

ELECTRICAL CONTR SHALL PREPARE "AS-BUILT" SHOP DWGS INDICATING ALL ELECTRICAL WORK, INCLUDING ANY CHANGES TO THE ELEC. PLAN, ADD'NS TO THE ELEC. PLAN, RISER DIAGRAM, AS-BUILT PANEL SCHEDULE W/ ALL CKTS IDENTIFIED W/ CKT NO., DESCRIPTION & BRKR. SERVICE ENT. & ALL UNDERGROUND WIRE LOCATIONS/ROUTING/DEPTH. RISER DIA. SHALL INCLUDE WIRE SIZES/TYPE & EQUIPMENT TYPE W/ RATINGS & LOADS. CONTRACTOR SHALL PROVIDE 1 COPY OF AS-BUILT DWGS TO OWNER & 1 COPY TO THE PERMIT ISSUING AUTHORITY.



Brett A. Crews
Digitally signed by
Brett A. Crews
Date: 2020.10.13
09:04:35-04'00'

Brett A. Crews, P.E. 65592

DRAWN BY:

TM

APPROVED BY:

BC

TERRELL RESIDENCE

ELECTRICAL PLAN

PROJECT NO.:

R20.003

SHEET:

A-8

REVISIONS

DATE	BY	DESCRIPTION
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DESIGN BY:

TRADEMARK
Construction Group, Inc.

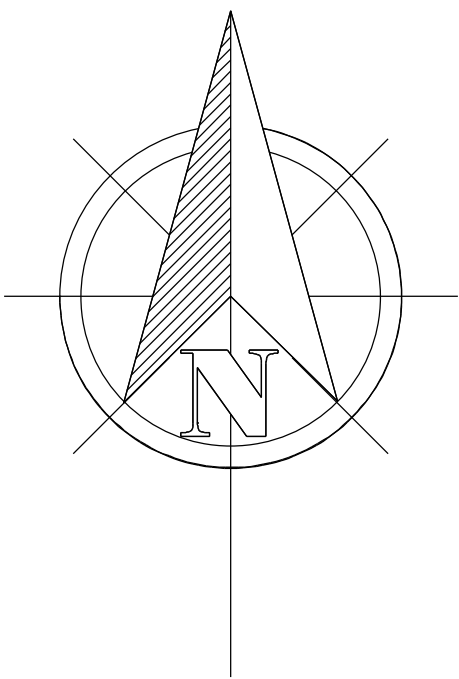
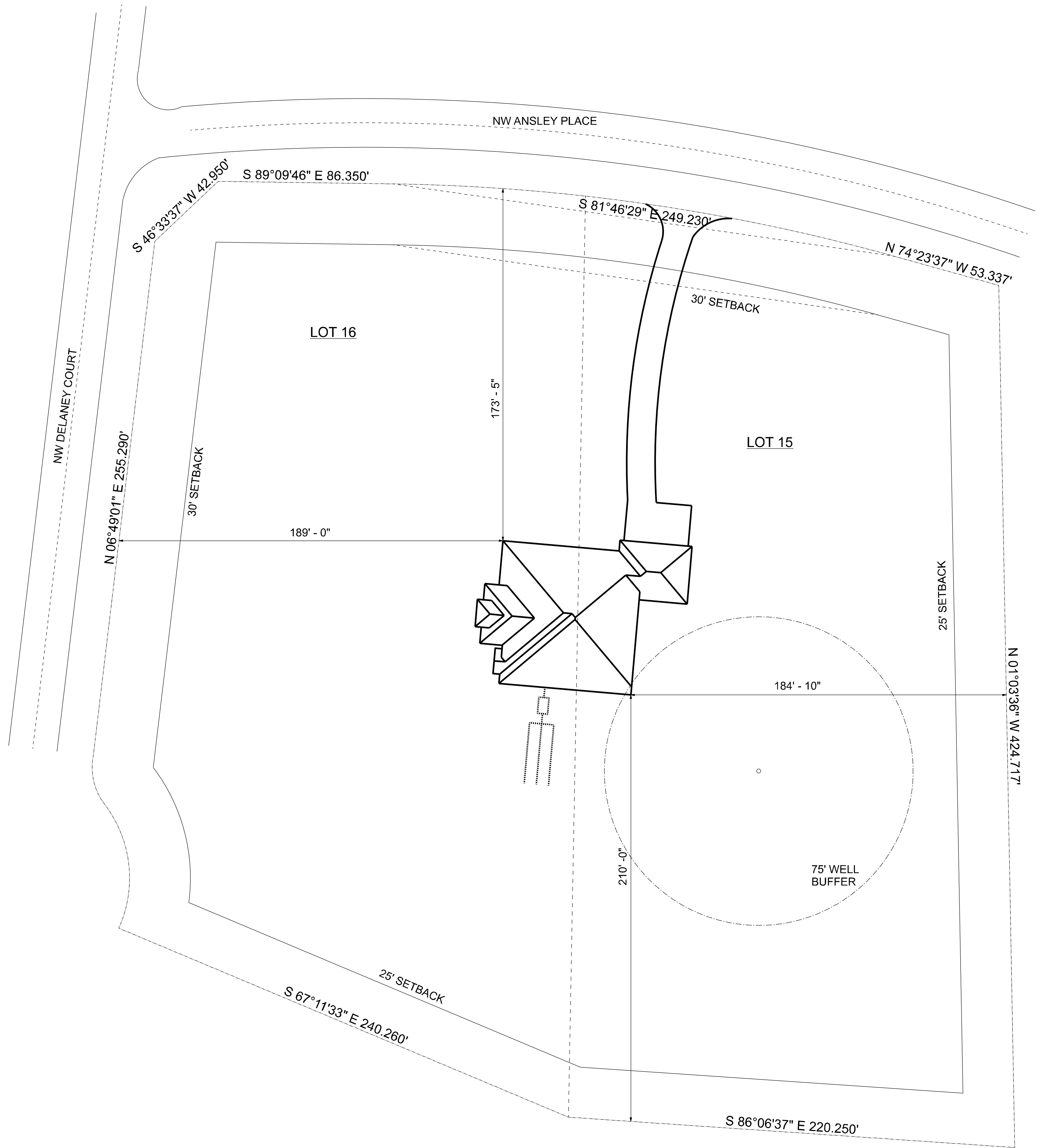
CERTIFIED GENERAL CONTRACTOR
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750 SW MAIN BLVD.
LAKE CITY, FL. 32025
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CES
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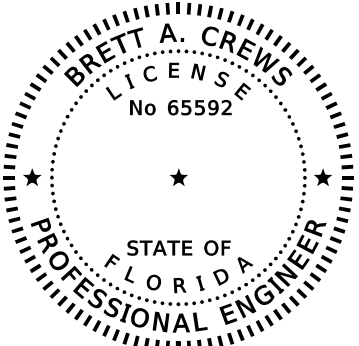
349 SW CREWS FARM TERRACE
LAKE CITY, FL 32025
PHONE: 386.623.4303



SCALE: 1" = 30'

PARCEL 20-3S-16-02202-115

LOTS 15 AND 16 OF HIGH POINTE, A SUBDIVISION
ACCORDING TO THE PLAT THEREOF AS RECORDED IN
PRRD BOOK 1, PAGES 28 THROUGH 31, OF THE PUBLIC
RECORDS OF COLUMBIA COUNTY, FLORIDA.



REVISIONS		
DATE	BY	DESCRIPTION

DESIGN BY: **TRADEMARK**
Construction Group, Inc.

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CGC1514780

750 SW MAIN BLVD.
LAKE CITY, FL. 32025
(386)755-5254

CES
Crews Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION
NO. 28022

P.O. BOX 970
LAKE CITY, FL 32056
PHONE: 386.754.4085

Digitally signed
by Brett A. Crews
Date: 2020.10.13
09:06:01-04'00'
Brett A. Crews, P.E. 65592

DRAWN BY:
TM

APPROVED BY:
BC

TERRELL RESIDENCE		PROJECT NO.: R20.003
SITE PLAN		SHEET: S-1