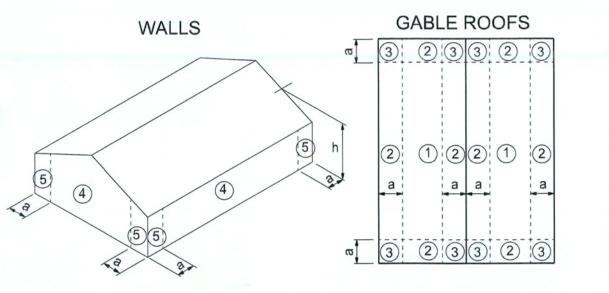
ALL WIND LOADS ARE IN ACCORDA 1609, FLORIDA BUILDING CODE 6TH		
FLO	OOR AND ROOF LIVE LOADS	3
UNINHABITABLE ATTICS:		20 PSF
HABITABLE ATTICS, BEDROOM:		30 PSF
ALL OTHER ROOMS:		40 PSF
GARAGE:		40 PSF
ROOFS:	20 PS	F UNIFORM
	WIND DESIGN DATA	
ULTIMATE WIND SPEED:		130 MPH
NOMINAL (BASIC) WIND SPEED:		101 MPH
RISK CATEGORY:		II
WIND EXPOSURE:		В
ENCLOSURE CLASSIFICATION:		ENCLOSED
INTERNAL PRESSURE COEFFICIEN	T:	0.18 +/-
CON	MPONENTS 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:	-3	1.1 PSF MIN.
ROOFING AT ZONE 3 OVERHANGS:	-3	1.1 PSF MIN.
STUCCO,	CLADDING, DOORS AND WIN	NDOWS
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

2500 PSI

3000 PSI

ASTM A185

ASTM A615-40 40,000 PSI

ASTM A615-40 40,000 PSI

LIVE LOADS:

20 PSF (REDUCIBLE) 40 PSF RESIDENTIAL FLOOR, UNLESS OTHERWISE INDICATED 40 PSF BALCONIES 40 PSF STAIRS 20 PSF LIGHT PARTITIONS (DEAD LOAD), U.N.O.

WIND LOADS:

WIND LOADS BASED ON FBC, SECTION 1609

CONCRETE STRENGTH @ 28 DAYS

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

REINFORCING:

ALL REINFORCING BARS ALL STIRRUPS AND TIES

WELDED WIRE FABRIC SHALL CONFORM TO

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

UNITS: STRUCTURAL CONCRETE GROUT 3000 PSI CONTINUOUS MASONRY INSPECTION IS REQUIRED DURING CONSTRUCTION ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O SHOP AND FIELD WELDS: E70XX ELECTRODES

STEEL: ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307 WOOD FRAMING: BEAMS, RAFTERS, JOIST, PLATES, ETC. U.N.O.

TOP CHORD LIVE AND DEAD LOAD:

BOTTOM CHORD DEAD LOAD:

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 TRUSSES:

SOIL BEARING

DATE BY

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

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.

30 PSF

10 PSF



PROJECT LOCATION

# KNOPER RESIDENCE

## **ABBREVIATIONS**

Abv. Above Polt A/C Air-Conditioner Adj. Adjustable A.F.F. Above Finished Floor A.H.U. Air Handler Unit ALT. Alternate B.C. Base Cabinet B.F. Bifold Door Bk Sh Book Shelf Bm. Beam BOT. Bottom B.P. Bypass door Brg. Bearing Cir. Circle Clg. Ceiling Col. Column Comp. A/C Compressor C.T. Ceramic Tile	Fign. Fir. Sys. F.Pl. Ft. Ftg. FX G.C. G.F.I. G.T. Hdr. Hgt. Hgt. K/Wall K.S. Laun. Lav.	Fireplace Foot / Feet Footing Fixed Galvanized General Contractor Ground Fault Interrupter Girder Truss Header Height Hose Bibb Interior Kneewall Knee Space Laundry Lavatory	Pit Sh. PSF P.T. Pwd. Ref. Reg'd. Rmd. Rhd. RS.F. Sh. Sh. Sh. Sh. S.Y.P.	Plant Shelf Pounds per square foot Pressure Treated Powder Room Radius Refrigerator Required Room Round Rod and Shelf Smoke Detector Square Ft. Shelves Sheet Side Lights Spruce Pine Fir Square Southern Yellow Pine
D Dryer Dec. Decorative Ded. Dedicated Outlet	L.F.	Linear Ft.	Temp.	Tempered
	L.T.	Laundry Tub	Thik'n.	Thicken
	Mas.	Masonry	T.O.B.	Top of Block
Dbl. Double Dia. Diameter Disp. Disposal	Max M.C. MDP	Maximum Medicine Cabinet Master Distribution Panel	T.O.M. T.O.P. Trans.	Top of Masonry Top of Plate Transom Window
Dist. Distance D.S. Drawer Stack D.V. Dryer Vent	Mfgr. Micro. Min	Manufacturer Microwave Minimum	Typ. UCL U.N.O.	Typical Under Cabinet Lighting Unless Noted Otherwise
D.W. Dishwasher Ea. Each E.W. Each Way Elec. Electrical	M.L.	Microlam	VB	Vanity Base
	Mir.	Mirror	Vert.	Vertical
	Mono	Monolithic	V.L.	Versalam
	N.T.S.	Not to Scale	VTR	Vent through Roof
Elev. Elevation Ext. Exterior Exp. Expansion	Opn'g.	Opening	W	Washer
	Opt.	Optional	W/	With
	Pc.	Piece	W/C	Water Closet
F.B.C. Florida Bldg. Code	Ped.	Pedestal	W.A.	Wedge Anchor
Fin. Flr. Finished Floor	P.L.	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	<b>ELEVATIONS FRONT AND REAR</b>	
A-4	ELEVATIONS SIDES	
A-5	FOUNDATION PLAN	
A-6	ROOF PLAN	
A-7	ELECTRICAL PLAN	
A-8	SECTIONS AND FRAMING DETAILS	
A-9	SHEARWALL DETAILS	

#### **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:
- 6. 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
- 8. THE TRUSS MANUFACTURER SHALL DETERMINE ALL SPANS WORKING POINTS, BEARING POINTS, AND SIMILAR CONDITIONS. BRACING MEMBERS, AND ALL TRUSS TO TRUSS HANGERS.

REVIEW AND APPROVAL PRIOR TO FABRICATION.

### FIELD REPAIR NOTES

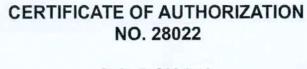
- 1. MISSED LINTEL STRAPS FOR MASONRY CONSTRUCTION MAY BE SUBSTITUTED W/ (1) "SIMPSON MTSM16 TWIST STRAP W/ (4) 1/4" X 2 1/4" DIA. TITENS TO THE BOND BEAM BLOCK AND (7) 10d TO THE TRUSS FOR UPLIFTS OF 1000 LBS. OR LESS. USE (2) FOR 2000 LBS. OR LESS. OTHERS MAY BE SUBSTITUTED ON A CASE BY CASE BASIS.
- 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:** DESCRIPTION

CERTIFIED GENERAL CONTRACTOR CGC1514780

163 SW MIDTOWN PL STE. 101 LAKE CITY, FL. 32025 **Construction Group, Inc.** 





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



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APPROVED BY:

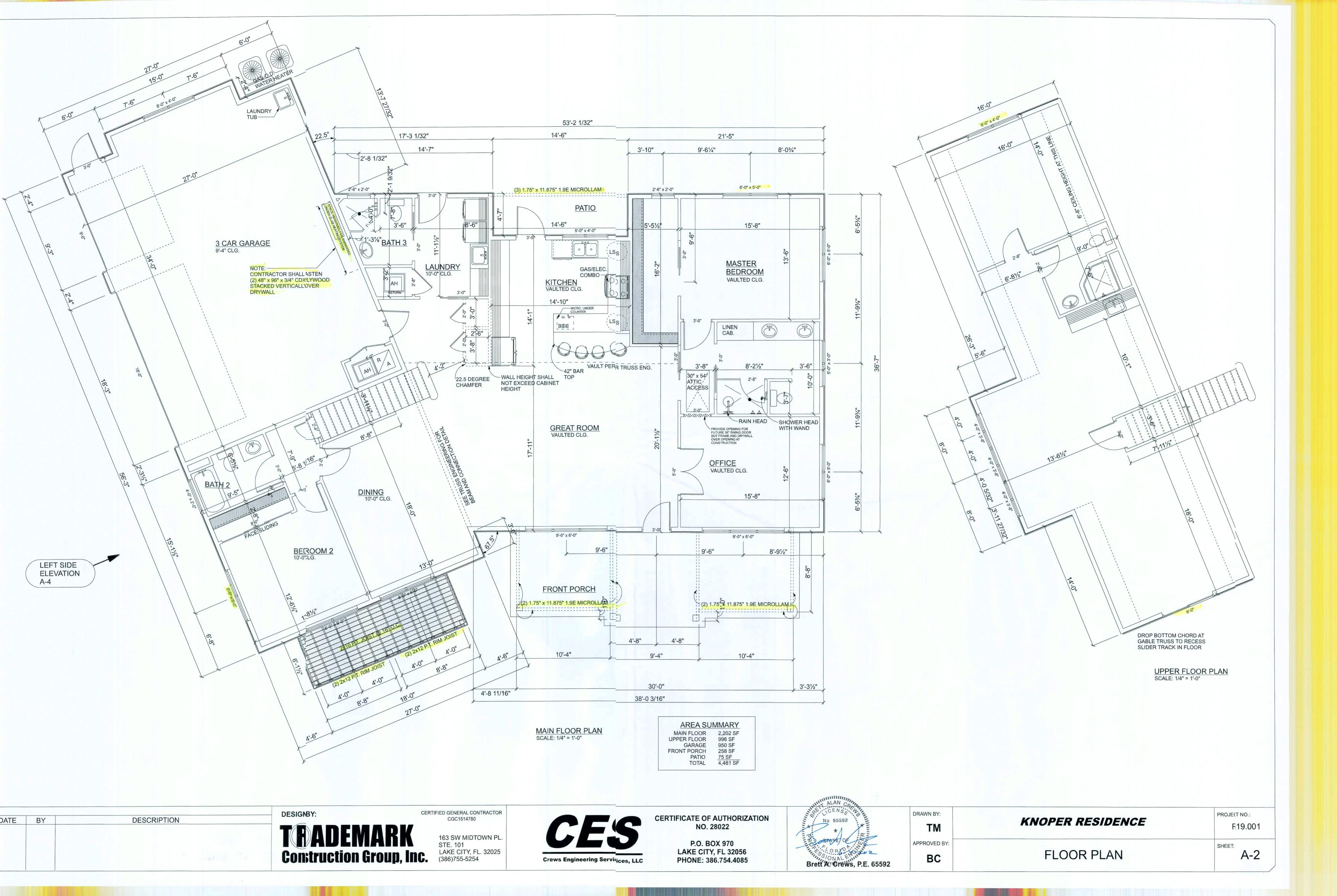
**KNOPER RESIDENCE** 

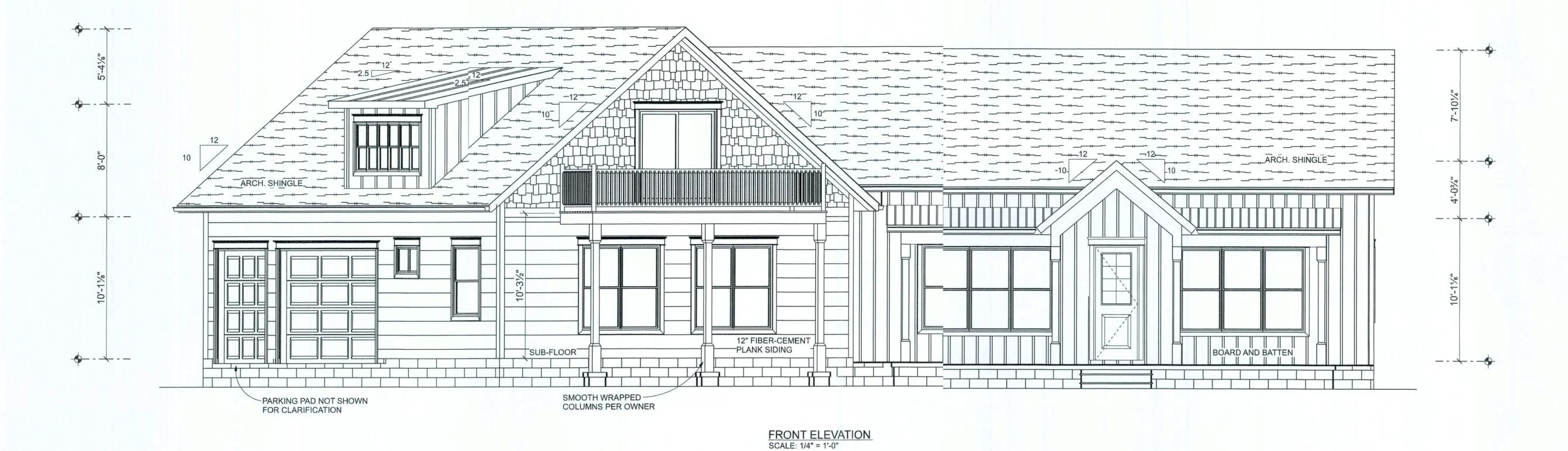
PROJECT NO .: R19.001

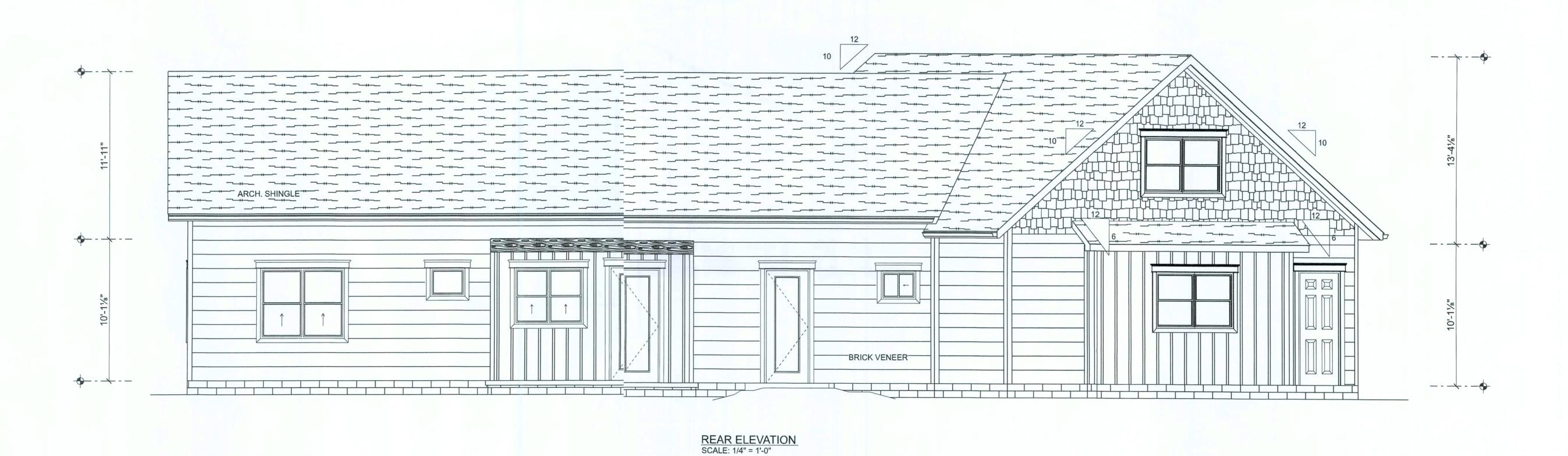
**COVER SHEET** 

SHEET:

A-1







DESIGN BY DESCRIPTION TRADEMARK

CERTIFIED GENERAL CONTRACTOR CGC1514780

CONSTUCTION GROUP, Inc.

163 SW MIDTOWN PL.
STE. 101
LAKE CITY, FL. 32025
(386)755-5254



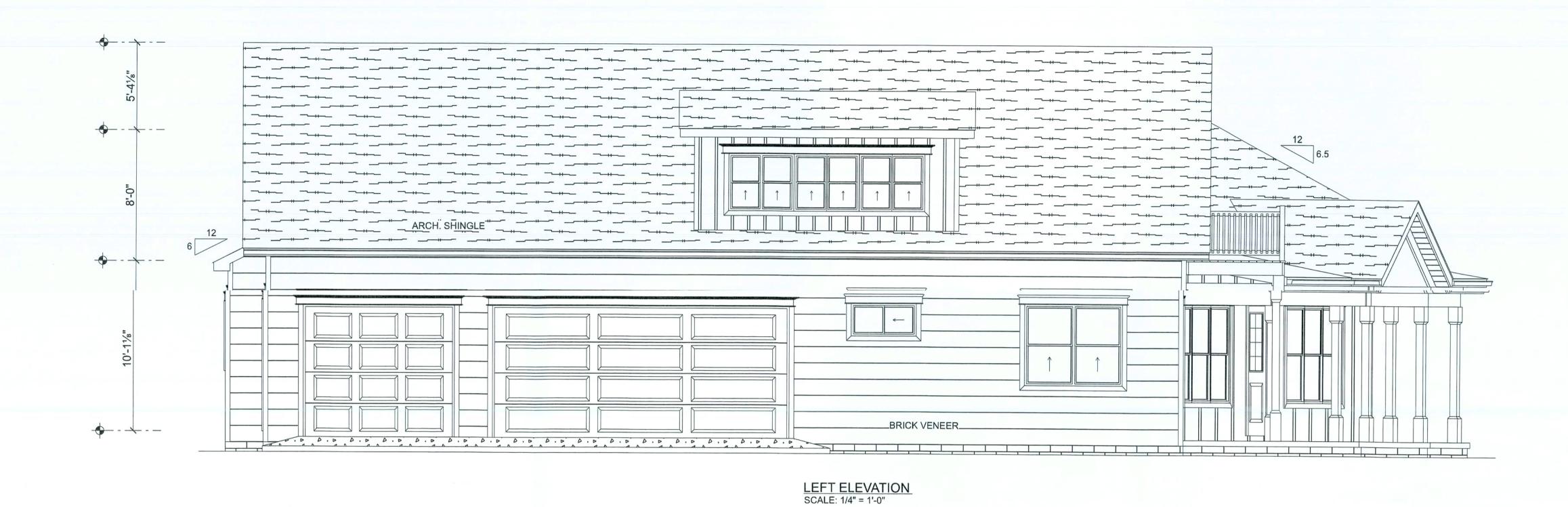
CERTIFICATE OF AUTHORIZATION NO. 28022

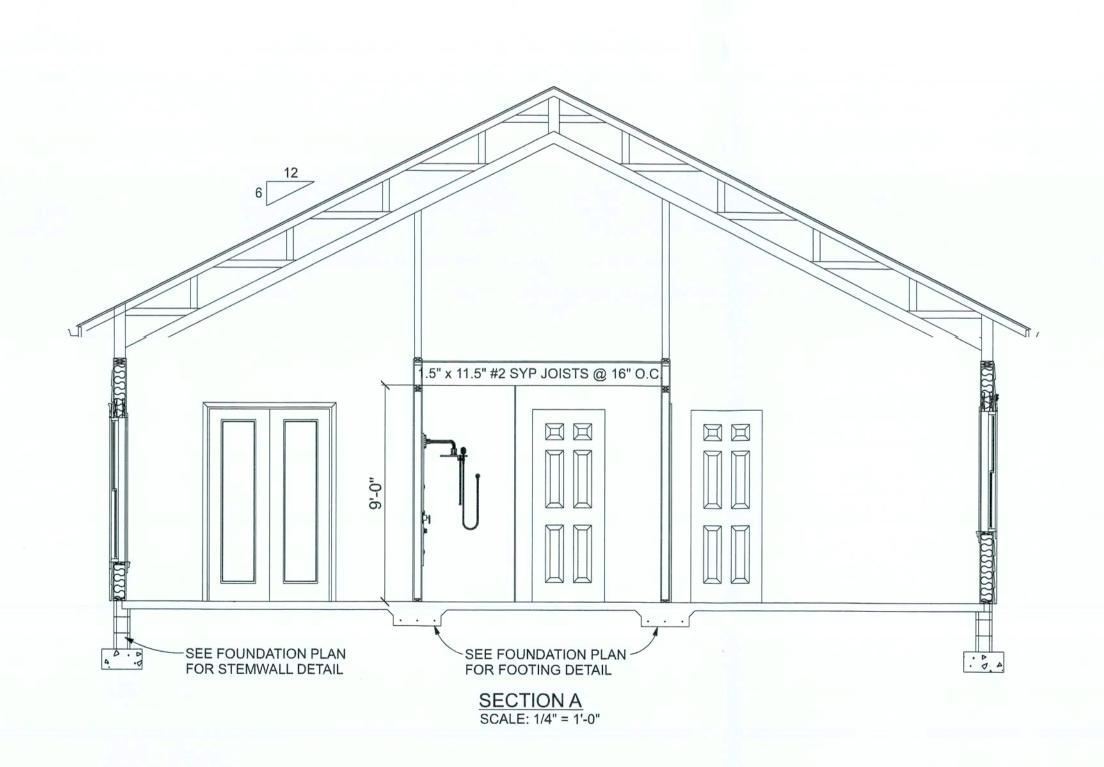
P.O. BOX 970 LAKE CITY, FL 32056 PHONE: 386.754.4085

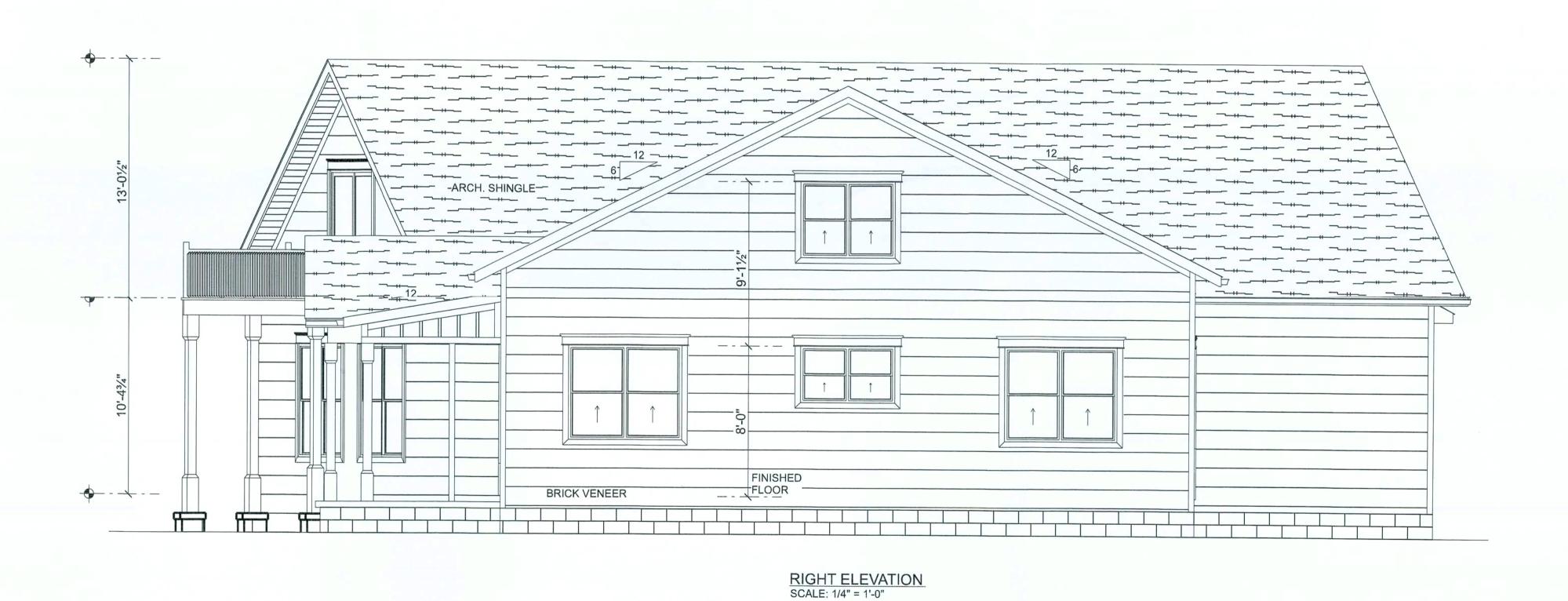
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Brett A. Grews, P.E. 6559	
Brett A. Crews, P.E. 6559	12

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TM	
APPROVED BY:	
ВС	

PROJECT N).: **KNOPER RESIDENCE** R19.001 **ELEVATIONS FRONT AND REAR** A-3







DATE BY DESCRIPTION

TRADEMARK

163 SW MIDTOWN PL.
STE. 101
LAKE CITY, FL. 32025
(386)755-5254

Crews Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION NO. 28022

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

HARE TOENS
No 65592 ***
STATE OF STATE
Brett A. Crews, P.E. 65592

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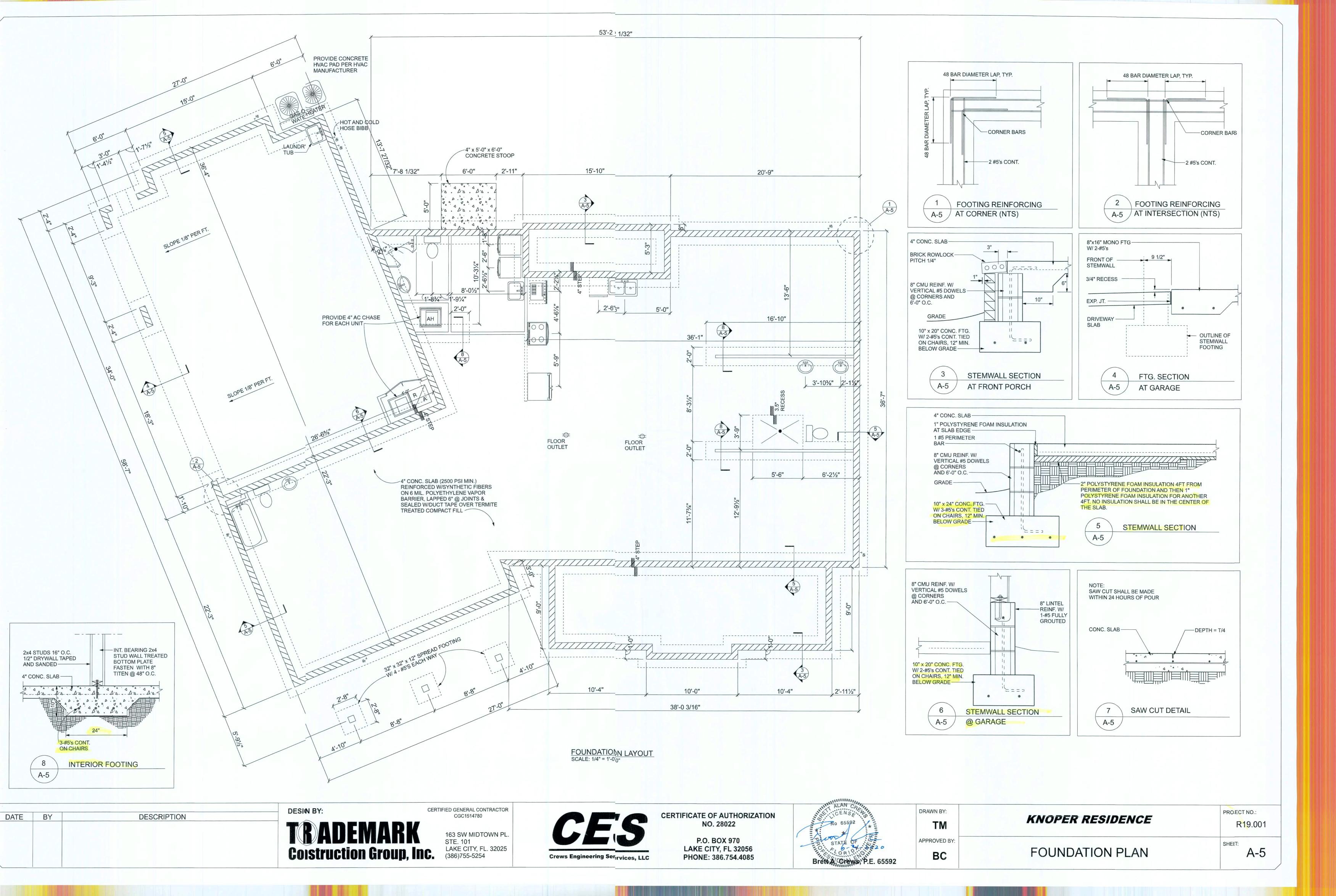
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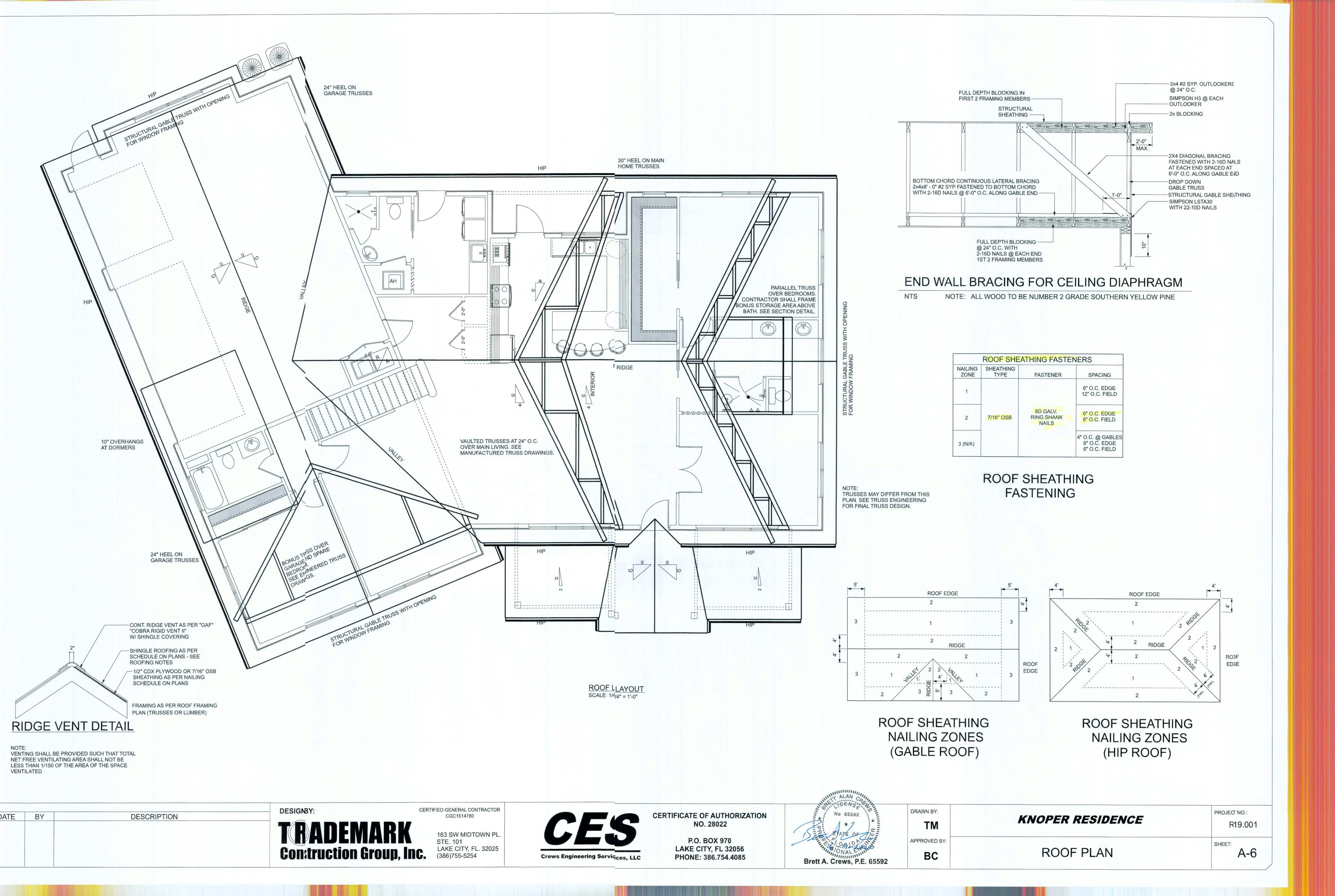
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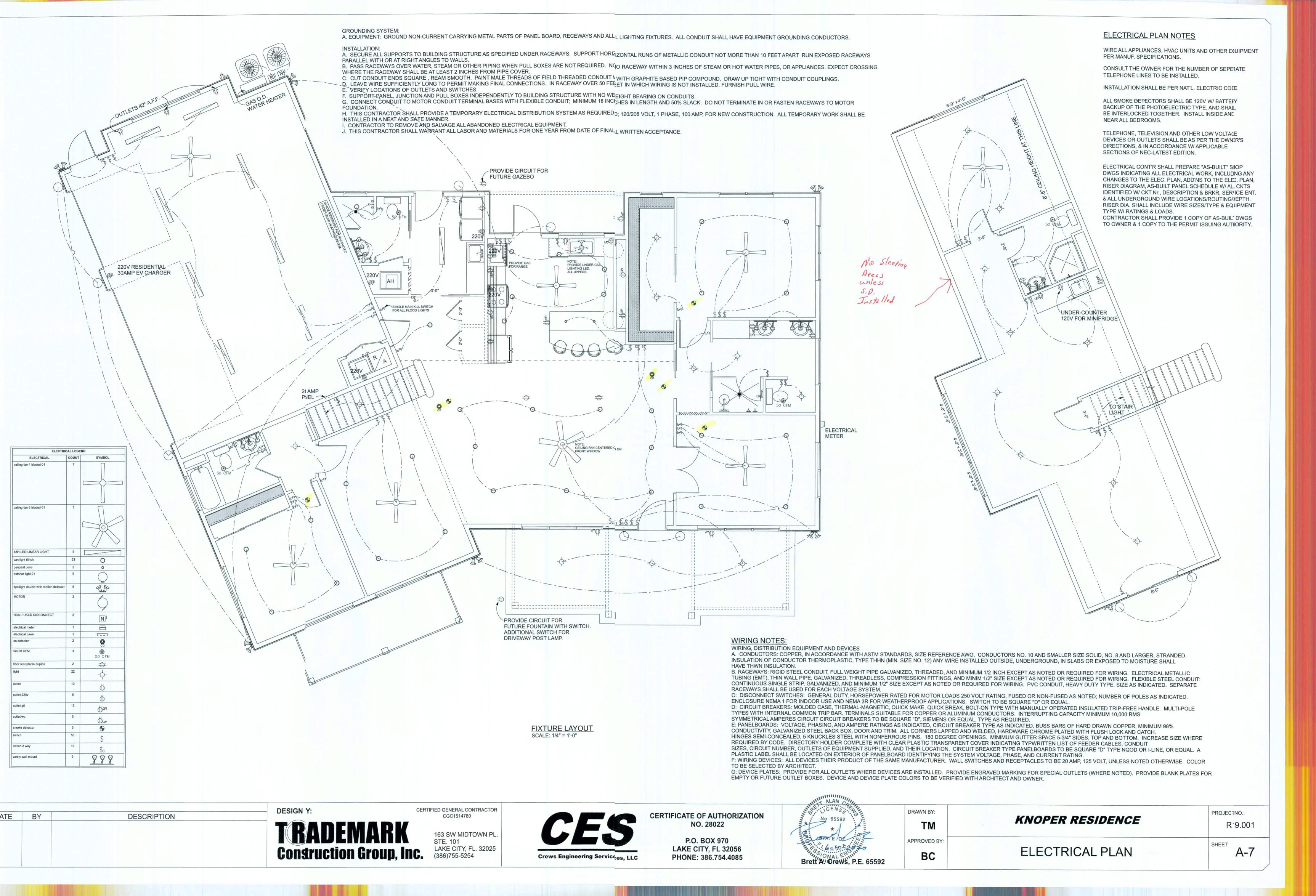
KNOPER RESIDENCE
R19.001

ELEVATIONS SIDES

PROJECT NO.:
R19.001







### SHINGLE NOTES:

DECK REQUIREMENTS:

ASPHALT SHINGLES SHALL BE FASTENED TO SOLIDLY SHEATHED DECKS.

ASPHALT SHINGLES SHALL BE USED ONLY ON ROOF SLOPES OF 4:12 OR GREATER. FOR ROOF SLOPES FROM 3:12 TO 4:12, DOUBLE UNDERLAYMENT

UNLESS OTHERWISE NOTED, UNDERLAYMENT SHALL CONFORM WITH ASTM D 226, TYPE 1, OR ASTM D 4869, TYPE 1.

#### SELF-ADHERING POLYMER MODIFIED BITUMEN SHEET:

SELF ADHERING POLYMER MODIFIED BITUMEN SHALL COMPLY WITH ASTM D 1970.

### ASPHALT SHINGLES:

ASPHALT SHINGLES SHALL HAVE SELF SEAL STRIPS OR BE INTERLOCKING, AND COMPLY WITH ASTM D 225 OR ASTM D 3462.

FASTENERS FOR ASPHALT SHINGLES SHALL BE GALVANIZED, STAINLESS STEEL, ALUMINUM OR COPPER ROOFING NAILS, MINIMUM 12 GAUGE SHANK WITH A MINIMUM 3/8 INCH DIAMETER HEAD, OF A LENGTH TO PENETRATE THROUGH THE ROOFING MATERIAL AND A MINIMUM 3/4" INTO THE ROOF SHEATHING. WHERE ROOF SHEATHING IS LESS THAN 3/4" THICK, THE NAILS SHALL PENETRATE THROUGH THE SHEATHING.

#### ATTACHMENT

ASPHALT SHINGLES SHALL BE SECURED TO THE ROOF WITH NOT LESS THAN FOUR FASTENERS PER STRIP SHINGLE OR TWO FASTENERS PER INDIVIDUAL SHINGLE. WHERE ROOFS LOCATED IN BASIC WIND SPEED OF 110 MPH OR GREATER, SPECIAL METHODS OF FASTENING ARE REQUIRED. UNLESS OTHERWISE NOTED, ATTACHMENT OF ASPHALT SHINGLES SHALL CONFORM WITH ASTM D 3161 OR M-DC PA 107-95.

#### UNDERLAYMENT APPLICATION:

FOR ROOF SLOPES FROM 3:12 TO 4:12, UNDERLAYMENT SHALL BE A MINIMUM OF TWO LAYERS APPLIED AS FOLLOWS:

1. STARTING AT THE EAVE, A 19 INCH STRIP OF UNDERLAYMENT SHALL BE APPLIED PARALLEL WITH THE EAVE AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

2. STARTING AT THE EAVE, 36 INCH WIDE STRIPS OF UNDERLAYMENT FELT SHALL BE APPLIED OVERLAPPING SUCCESSIVE SHEETS 19 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.

FOR ROOF SLOPED 4:12 AND GREATER, UNDERLAYMENT SHALL BE A MINIMUM OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS: STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION

PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY

#### BASE AND CAP FLASHINGS:

BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE OF EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS 0.019 INCH OR MINERAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 77 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF 0.019 INCH.

VALLEY LININGS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ASPHALT SHINGLES. VALLEY LININGS OF THE FOLLOWING

TYPES SHALL BE PERMITTED. 1. FOR OPEN VALLEYS LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16 INCHES WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN TABLE 1507.3.9.2. 2. FOR OPEN VALLEYS, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING

SHALL BE PERMITTED. THE BOTTOM LAYER SHALL BE 18 INCHES AND THE TOP LAYER

A MINIMUM OF 36 INCHES WIDE. 3. FOR CLOSED VALLEYS VALLEY LINING SHALL BE ONE OF THE FOLLOWING:

1. BOTH TYPES 1 AND 2 ABOVE, COMBINED.

2. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH

3. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 1970.

MATERIAL	MINIMUM THICKNESS (in)	GAGE	WEIGHT (LB)
COPPER			1
ALUMINUM	0.024		
STAINLESS STEEL		28	
GALVANIZED STEEL	0.0179	26 (zinc coated G90)	
ZINC ALLOY LEAD PAINTED TERNE	0.027		2 1/2 20

#### PER MANUF. RECOMMENDATIONS OVER 1/2" O.S.B. APA RATED SHEATHING INSTALLED PERPENDICULAR TO ROOF TRUSSES WITH 8D RINGSHANK NAILS (@ 6" O.C. EDGES AND 12" O.C. IN FIELD OVER ENGINEERED WOOD TRUSSES SEE PLAN (@ 24" O.C. PER CONNECTOR SCHEDULE R-30 BATT OR **BLOWN INSULATION —** CONTINUOUS AIR VENT BAFFLES @ 24" O.C. TO BE INSTALLED SO THAT AIR FLOW IS NOT RESTRICTED SEE E PLAN TOP OF BEARING ALUMINUM DRIP EDGE ALUM. FASCIA <sup>2</sup> 2x6 SUBFASCIA VENTED VINYL SOFFIT 5/8" GYPSUM BOARD 8" OVERHANG TAPED AND PAINTED -1/2" GYPSUM BOARD COMMON BRICK VENEER TAPED AND PAINTED OVER TYVEK HOUSEWRAP ON R-13 BATT INSULATION 7/16" O.S.B. APA RATED SHEATHING FASTENED WITH 8D RINGSHANKS @ 6" O.C. EDGES AND 12" O.C. FIELDS 22x6 #2 SPF STUDS @ 16" O.C. · - — - — - — - — - — - — - — BBRICK ROWLOCK (SEE PLAN) COMMON BRICK W/ GALV. 4" VINYL COVE BASE NWALL TIES PPROVIDE WEEP HOLES @@ 48" O.C. P.S.T. PLATE ANCHORED TO SLAB WNITH 1/2" x 10" A307 ANCHOR BOLT 4" CONC. SLAB (3000 PSI MIN.) Obr 1/2" x 8" TITEN WITH 2" WASHER REINF. WITH 6X6 W 1.4/W1.4 @ 6" FROM CORNERS AND 48" O.C. W.W.M. ON 6 MIL POLYETHYLENE 1/4" SILL GASKET VAPOR BARRIER, LAPPED 6" @ JOINTS & SEALED WITH DUCT TAPE OVER TERMITE TREATED COMPACT FILL -100'0'-0" (ASSUMED) TOPP OF SLAB GRADE 8" ( CMU REINF. W/ VERTICAL #5 bowels @ Corners ANIO 4'-0" O.C. SEE FOUNDATION PLAN 8.0 D 0

# TYPICAL WALL SECTION SCALE: 3/4" = 1'-0"

# GENERAL NOTES:

DATE

BY

- THE CONTRACTOR SHALL INDEMNIFY THE OWNER AGAINST ALL CLAIMS, WHETHER FROM PERSONAL INJURY OR PROPERTY DAMAGE, ARISING FORM EVENTS ASSOCIATED WITH THE WORK PERFORMED UNDER THE CONTRACT FOR THIS PROJECT.
- 2. 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 WORK-MANSHIP SHALL BE CORRECTED AT NO FURTHER COST TO THE OWNER DURING THE ONE YEAR WARRANTY PERIOD.
- 3. 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 FIE A "NOTICE OF COMMENCEMENT" PRIOR TO THE BEGINNING OITHE PROJECT AND THE CONTRACTOR(S) SHALL FILE "NOTICE TOWNER" AND PROVIDE "RELEASE OF LIEN" FOR ALL PAYMER REQUESTS PRIOR TO DISBURSEMENT OF ANY FUNDS.
- ANY AND ALL DISPUTE ARISING FROM EVENTS ASSOCIATED WITH THE CONSTRUCION OF THIS PROJECT BETWEEN THE OWNER, CONTACTOR() AND SUPPLIERS SHALL BE RESOLVED THROUGH BINDING ARITRATION.
- 7. ALL WORK SHALL BE IACCORDANCE WITH APPLICABLE CODES AND LOCAL REGULATINS, INCLUDING APPLICABLE ENERGY CODES. ALL COMPONNTS OF THE BUILDING SHALL MEET WITH THE MINIMUM ENERGREQUIREMENTS OF THE BUILDING CODE. ANY DISCREPANCIES HALL BE REPORTED TO THE ARCHITECT IN WRITING PRIOR TO HE COMMENCEMENT OF THE WORK.
- 8. ALL INSULATION SHALBE LEFT EXPOSED AND ALL LABELS LEFT INTACT ON THE WIDOWS AND DOORS UNTIL INSPECTED BY THE BUILDING OFF: IAL.
- 9. ALL WOOD IN CONTACWITH CONCRETE SHALL BE PRESSURE TREATE.

# CONSTRUCTION DOCUMENTS:

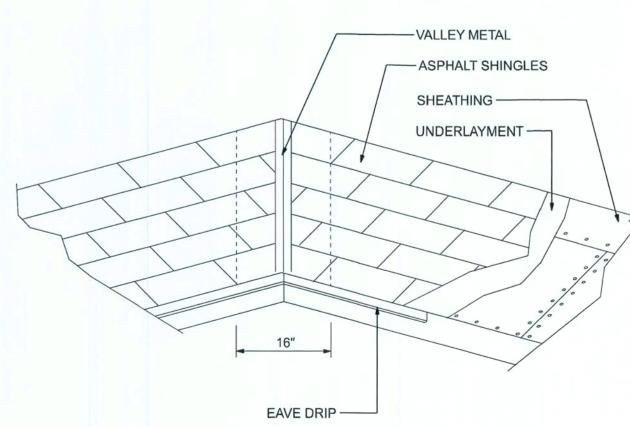
THE CUSTOMER IS RESPONSIBLE FOR DELIVERING THE REQUIRED SE'ETS OF CONSTRUCTION DOCUMENTS TO THE PERMIT ISSUING AUTHORITY FOOR THE ISSUANCE OF CONSTRUCTION PERMITS. THE CONTRACTOR IS SOLEL'LY RESPONSIBLE FOR REVIEWING THE PLANS AND VERIFYING ALL EXISTITING CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR 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 ITEM (IS) SIMPLE ARITHMATIC MAY BE USED TO DETERMINE THE LOCATION OF THOSE ITEMS NOT DIMENSIONED.

## CHANGES TO PLAN SETS:

PLEASE DO NOT MAKE ANY STRUCTURAL CHANGES TO THES PLANS WWITHOUT CONSULTING WITH THE ARCHITECT/ENGINEER. THE OWNER SHALL ASSUME ANY AND ALL LIABILITY FOR STRUCTURAL DAMAGE RESULTING FROM CHANNGES MADE TO THE PLANS OR BY SUBSTITUTION OF MATERIALS DIFFERENT FROMM SPECIFICATIONS ON THE PLANS.



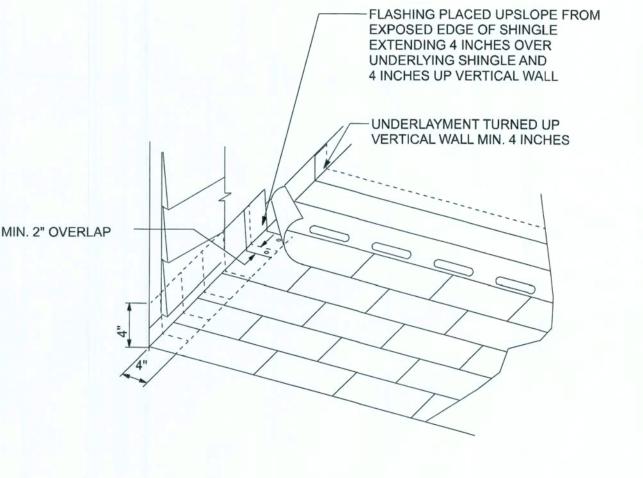
### **UPLIFT CONNECTORS**

COMPOSITE SHINGLES INSTALLED

1. UPLIFT CONNECTORS SUCH AS HURRICANE CLIPS, TRUSS ANCHORS AND ANCHOR BOLTS ARE ONLY REQUIRED ON MEMBERS IN WALLS THAT ARE EXPOSED TO UPLIFT FORCES. INTERIOR LOAD BEARING WALLS ARE NOT ALWAYS EXPOSED TO UPLIFT FORCES. THE MEMBERS OF THESE WALLS WOULD NOT NEED TO HAVE CONNECTORS APPLIED. PLEASE CONSULT THE TRUSS ENGINEERING FOR THE LOCATION OF THESE WALLS.

#### 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
- 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)



DESCRIPTION

**DESIGIBY:** 

CERTIFIED GENERAL CONTRACTOR CGC1514780

STE. 101

163 SW MIDTOWN PL

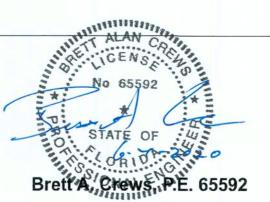
LAKE CITY, FL. 32025

**TRADEMARK Construction Group, Inc.** 



CERTIFICATE OF AUTHORIZATION NO. 28022

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



DRAWN BY: APPROVED BY

# **FOUNDATION NOTES**

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 REINFROCING BARS

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, . 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
- FIFI D BENT
- EXCEPTION: WHERE BENDING IS NECESSARY TO ALIGN DOWEL BARS WITH A VERTICAL CELL, BARS PARTIALLY EMBEDDED IN CONRETE 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 - W1.4 X W1.4 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.
- 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.
- 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.

#### **TERMITE PROTECTION NOTES:**

### SOIL CHEMICAL BARRIER METHOD:

- 1. A PERMANENT SIGN WHICH IDENTIFIES THE TERMITE TREATMENT PROVIDER AND NEED FOR REINSPECTION AND TREATMENT CONTRACT RENEWAL SHALL BE PROVIDED. THE SIGN SHALL BE POSTED NEAR THE WATER HEATER OR ELECTRIC PANEL. FBC 104.2.6
- 2. CONDENSATE AND ROOF DOWNSPOUTS SHALL DISCHARGE AT LEAST 1'-0" AWAY FROM BUILDING SIDE WALLS. FBC 1503.4.4
- 3. IRRIGATION/SPRINKLER SYSTEMS INCLUDING ALL RISERS AND SPRAY HEADS SHALL NOT BE INSTALLED WITHIN 1'-0" FROM BUILDING SIDE WALLS.
- 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 THE FOUNDATION WALL. FBC 1403.1.6
- 5. INITIAL TREATMENT SHALL BE DONE AFTER ALL EXCAVATION AND BACKFILL IS COMPLETE. FBC 1816.1.1
- 6. SOIL DISTURBED AFTER THE INITIAL TREATMENT SHALL BE RETREATED INCLUDING SPACES BOXED OR FORMED. FBC 1816.1.2
- 7. 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 ELIMINATE THE DISTURBANCE OF SOIL AFTER THE INITIAL TREATMENT. FBC 1816.1.3
- 8. MINIMUM 6 MIL VAPOR RETARDER MUST BE INSTALLED TO PROTECT AGAINST RAINFALL DILUTION. IF RAINFALL OCCURS BEFORE VAPOR RET-ARDER PLACEMENT, RETREATMENT IS REQUIRED. FBC 1816.1.4
- 9. CONCRETE OVERPOUR AND MORTAR ALONG THE FOUNDATION PERIMETER MUST BE REMOVED BEFORE EXTERIOR SOIL TREATMENT. FBC 1816.1.5
- 10. SOIL TREATMENT MUST BE APPLIED UNDER ALL EXTERIOR CONCRETE OR GRADE WITHIN 1'-0" OF THE STRUCTURE SIDEWALLS. FBC 1816.1.6
- 11. 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 1816.1.6
- 12. ALL BUILDINGS ARE REQUIRED TO HAVE PER-CONSTRUCTION TREATMENT.
- A CERTIFICATE OF COMPLIANCE MUST BE ISSUED TO THE BUILDING DEPART. MENT BY # LICENSED PEST CONTROL COMPANY BEFORE A CERTIFICATE OF OCCUPANCY WILL BE ISSUED. THE CERTIFICATE OF COMPLIANCE SHALL STATE "THE BUILDING HAS RECEIVED A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. THE TREATMENT IS IN ACCORDANCE WITH THE RULES AND LAWS OF THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONS-UMER SERVICES". FBC 1816.1.7
- 14. 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 2303.1.3
- 15. NO WOOD, VEGETATION, STUMPS, CARDBOARD, TRASH, ETC., SHALL BE BURIED WITHIN 15'-0" OF ANY BUILDING OR PROPOSED BUILDING. FBC 2303.1.4

KNOPER RESIDENCE

PROJECT NO: R19.)01

SECTIONS AND DETAILS

SHEET:

1. One all-thread rod at each corner.

2. One all-thread rod at each end of shearwalls.

3. One all-thread rod at each end of opening headers greater than 3'-0"

4. Check sub-sheathing to top plate connection for horizontal transfer capability. 5. If necessary, add all-thread rods to girders individually to exclude the from average uplift plf. 6. Check sole plate to slab connection, additional anchors may be required for lateral and shear

ALLOWABLE VALUES	
Connection Type	Allowable Value
Foundation / S.Y.P. Top Plate	3840 lbs.
Foundation / Spruce-Pine-Fir Top Plate	3840 lbs.
Lintel or Bond Beam / S.Y.P. Top Plate	3840 lbs.
Lintel or Bond Beam / Spruce-Pine-Fir Top Plate	3840 lbs.

### Placement at slab level:

When presetting the all-thread rod at a building corner, the rod

should be placed 8 to 12 inches away from the corner so it does not set under the corner framing members. When a all-thread rod is specified at a building corner, it may be placed on either side of the corner.

Header ends When presetting the all-thread rod at a header end, the rod

should be placed 8 to 12 inches away from the header end so it does not fall under the stud pack framing members. Top Connections

Top connections made at corners and header ends shall be made within 2 inches of the framing pack. A nut and 3X3 washer shall be applied to the top plates and tightened securely.

Intermediate Coupler Connections

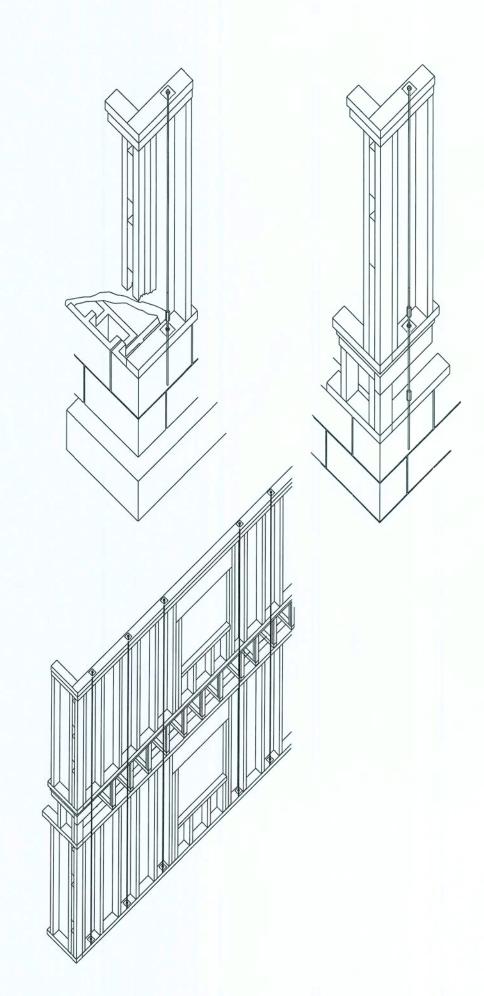
When using the rod coupler, care should be taken to ensure full and equal thread engagement. This is easily achieved by threading the coupler all the way onto the rod, then standing the two rods end to end, then threading the coupler back over the rod joint so each rod is halfway into the coupler.

In the case of an all thread rod misplacement, the rod may be epoxied into the concrete.

Sole plate to slab connection:

The slab level sole plate shall be connected to the slab with the connectors specified and at the spacing specified within the design documents. All-thread rods shall be placed as per the design specifications. All-thread rods with a nut and washer at the sole plate will qualify as a sole plate connection but may require other anchors intermediate of the all-thread rod locations to qualify the specified spacing requirements.

System Tightening:
On multiple story applications, the all-thread rod system shall be rechecked for proper tension just before the walls are veneered. This will allow the all-thread rod system to compensate for the buildings dead load compression.



### SHEARWALINOTES:

1. ALL SHEARYALLS SHALL BE TYPE 2 SHEARWALLS

AS DEFINEBY STD 10-99 305.4.3.

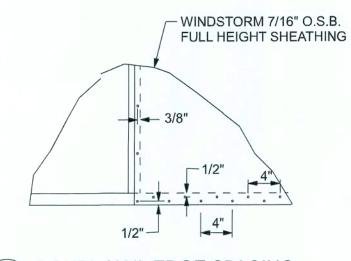
THE WALL SALL BE ENTIRELY SHEATHED WITH 7/16" O.S.B. ICLUDING AREAS ABOVE AND BELOW OPENINGS.

3. ALL SHEATING SHALL BE ATTACHED TO FRAMING ALONG ALLOUR EDGES WITH JOINTS FOR ADJACENT PANELS OCURING OVER COMMON FRAMING MEMBERS OR ALONG LOCKING.

4. NAIL SPACIS SHALL BE 6" O.C. EDGES AND

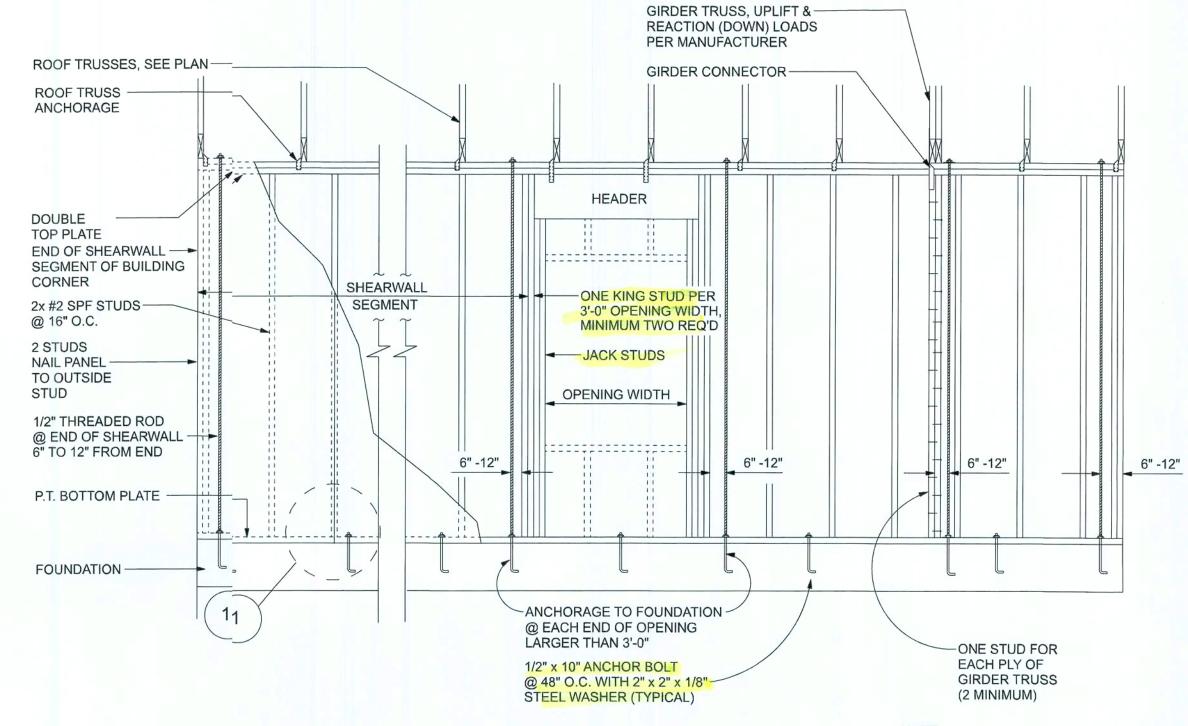
12" O.C. IN **1**E FIELD. 5. TYPE 2 SHERWALLS ARE DESIGNED FOR THE OPENING IT CONTAIN: MAXIMUM HEIGHT OF OPENING SHALL BE 5/6 TIMES TE WALL HEIGHT. THE MINIMUM DISTANCE BETWEEN CENINGS SHALL BE THE WALL HEIGHT/3.5 ie. FOR 8'-0"VALLS - (2'-3").

OPENING WIFH	SILL PLATES	16d TOE NAILS EACH END
UP TO 6'-0	(1) 2x4 OR (1) 2x6	1
> 6' TO 9'-(	(3) 2x4 OR (1) 2x6	2
> 9' TO 12'"	(5) 2x4 OR (2) 2x6	3



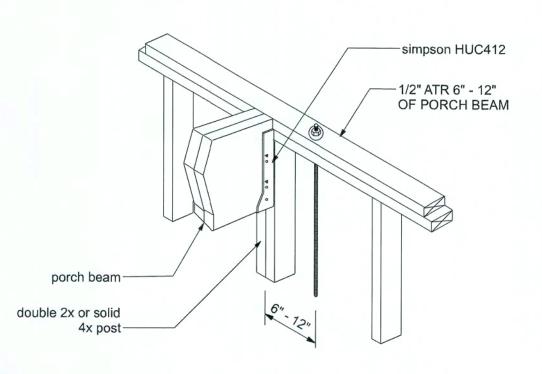
DOUBL NAIL EDGE SPACING TOP ND BOTTOM PLATE UPLIF CAPACITY = 474 plf (TABE 305S1 SSTD10-99)

ALL WALL SHETHING SHALL BE WINDSTORM 1 1/8" FULL HEIHT SHEATHING-SEE DETAIL 1 PR NAILING



SHEARWALL DETAILS SCALE: 1/2" = 1'-0"

VERIFY GIRDER TRUSS LOCATION ON TRUSS LAYOUT FOR REQ'D ALL THREAD AT GIRDER LOCATION

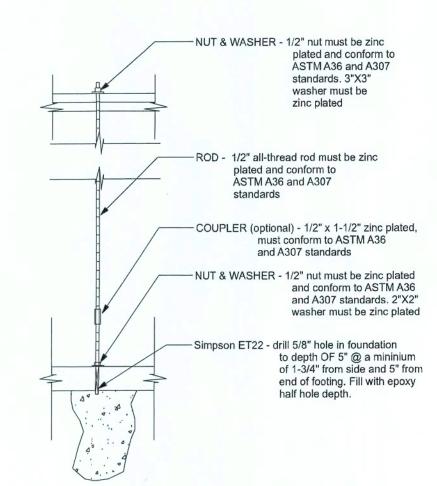


# ALL THREAD @ PORCH BEAM

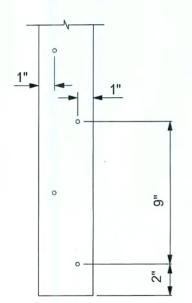
#### ALLOWABLE DEFLECTION OF STRUCTURAL MEMBERS

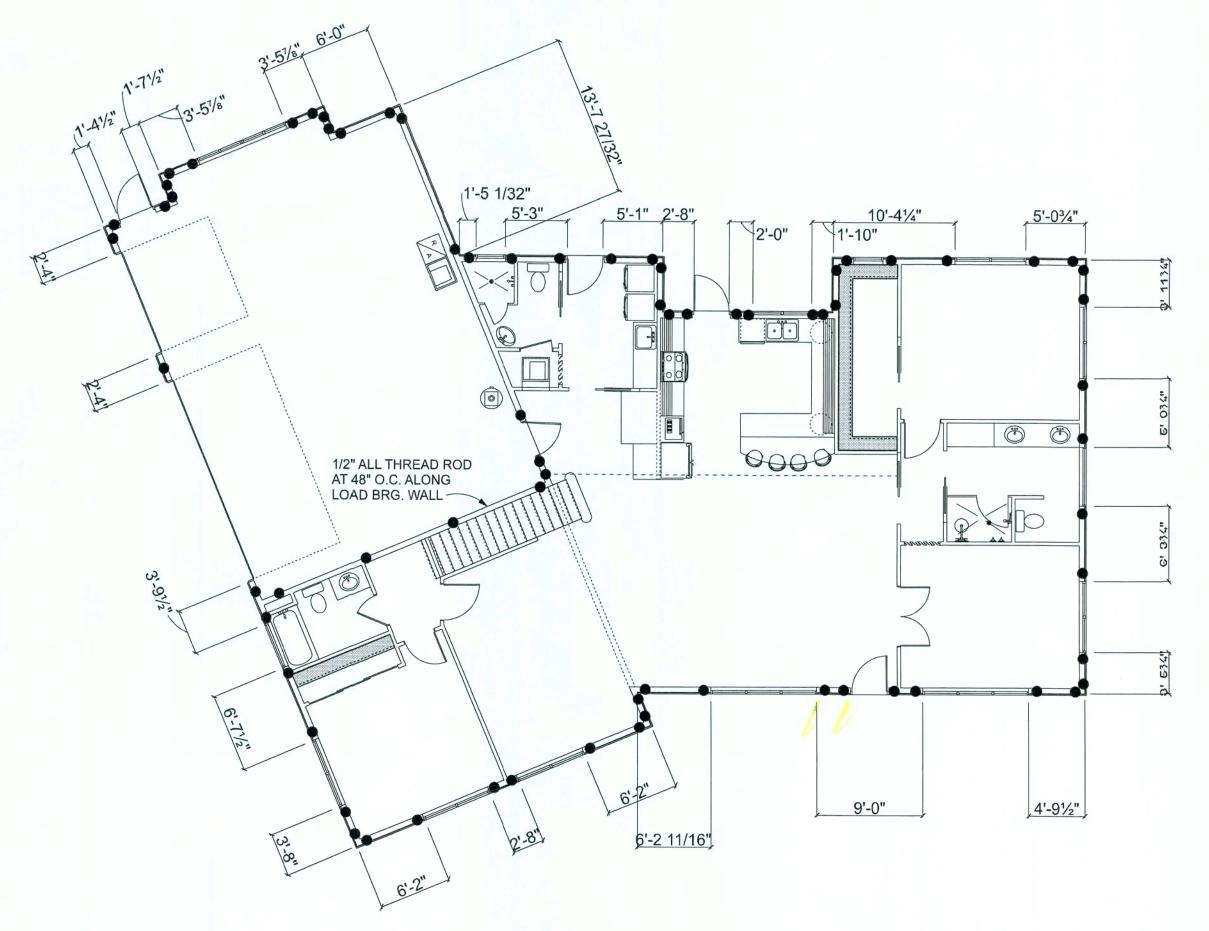
STRUCTURAL MEMBER	ALLOWABLE DEFLECTION
rafters having slopes greater than 2/12 with no finished ceiling attached to rafters	L/180
interior walls and partitions	H/180
floors and plastered ceilings	L/360
all other structural members	L/240
exterior walls with plaster or stucco finish	H/360
exterior walls - wind loads with brittle finishes	L/240
exterior walls - wind loads with flexible finishes	L/120

#### OPENING CONNECTION REQUIREMENTS **HEADER SIZE** CLEAR **CONNECTOR AT** ANCHORAGE TO #2 GRADE OR **OPENING** EACH END OF FOUNDATION @ EACH BETTER **WIDTH OPENING** END OF OPENING **END BEARING** (2) 2x80' - 3' 1.5" >3' - 6' (2) 2x10 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD (2) 2x12 >6' - 9' 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD (2) 1 3/4" x 11 1/4" LVL - 2.0E >9' - 12' 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD (2) 1 3/4" x 11 1/4" LVL - 2.0E 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD (2) 1 3/4" x 11 1/4" LVL - 2.0E 4.5" 1/2" ALL THREAD ROD 1/2" ALL THREAD ROD



A SOLID MEMBER OF EQUAL OR GREATER SIZE THAN MULTIPLE MEMBERS MAY BE USED. IF RATED SHEATHING IS APPLIED TO NARROW EDGES, NAILED TO EACH STUD AT 12" O.C. MAXIMUM THE LAMINATION NAILING SHOWN HERE IS NOT REQUIRED.





ALL THREAD DETAIL

ALL THREAD LOCATION

END (TOP OR BOTTOM) GIRDER COLUMN DE TAIL SCALE: 1/2" = 1'-0"

DATE DESCRIPTION

TRADEMARK **Construction Group, Inc.** 

CERTIFIED GENERAL CONTRACTOR

CGC1514780

STE. 101

163 SW MIDTOWN PL

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

DESIG BY:



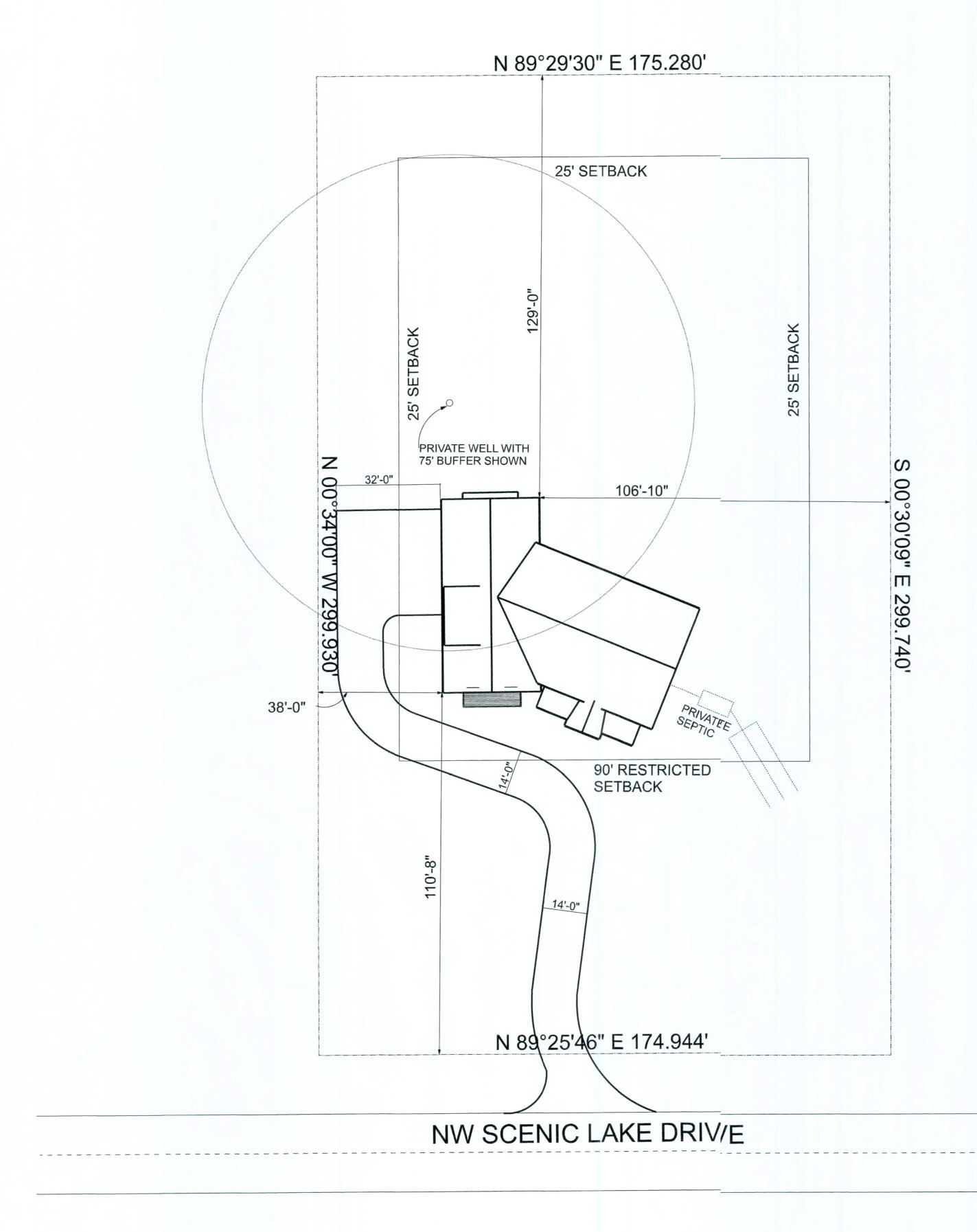
**CERTIFICATE OF AUTHORIZATION** NO. 28022

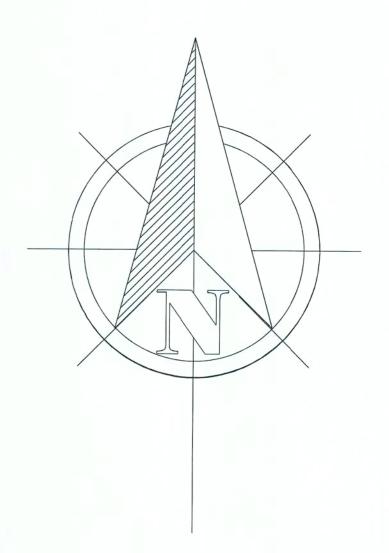
> P.O. BOX 970 LAKE CITY, FL 32056 PHONE: 386.754.4085

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	CENS
	No 66592
	Source / B
	STATE OF THE
E	Brett Aucrews P.E. 65592

DRAWN BY: APPROVED BY BC

PROJECT NC.: KNOPER RESIDENCE R19001 SHEET: SHEARWALL DETAILS A-9





SCALE: 1" = 20' (SCALE ACCURATE WHEN PRINTED ON 24" x 36" PLAN SHEET)

COMMENCE AT THE SOUTHEAST CORNER OF LOT 3, OF WOODBOROUGH PHASE 5, A SUBDIVISION RECORDED IN THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA, AND RUN N 88 50'37" E ALONG THE NORTHERLY RIGHT OF WAY LINE OF SCENIC LAKE DRIVE 96.89 FEET TO A POINT DESIGNATED AS "PRM 3" ON A PLAT OF WOODBOROUGH PHASE 1, A SUBDIVISION RECORDED IN THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA; THENCE N 89'25'40" E STILL ALONG THE NORTHERLY RIGHT OF WAY LINE OF SCENIC LAKE DRIVE 81.11 FEET TO THE POINT OF BEGINNING; THENCE N 00'34'20" W, 300.00 FEET; THENCE N 89 25'40" E PARALLEL TO THE NORTHERLY RIGHT OF WAY LINE OF SCENIC LAKE DRIVE 175.00 FEET:

THENCE S 00 34'20" E, 300.00 FEET TO A POINT ON THE NORTHERLY RIGHT OF WAY LINE OF SAID SCENIC LAKE DRIVE; THENCE S 89 25'40" W ALONG SAID NORTHERLY RIGHT OF WAY LINE 175.00 FEET TO THE POINT OF BEGINNING.

PARCEL: 23-3S-16-02268-602

REVISIONS

DESCRIPTION DATE BY

DESIGN BY:

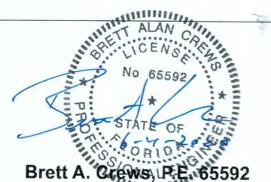
TRADEMARK Construction Group, Inc.

CERTIFIED GENERAL CONTRACTOR
CGC1514780

Crews Engineering Services, LLC

CERTIFICATE OF AUTHORIZATION NO. 28022

P.O. BOX 970 LAKE CITY, FL 32056



DRAWN BY:

APPROVED BY:

**KNOPER RESIDENCE** 

PROJECT NO:

SITE PLAN

R19.001

SIT-1