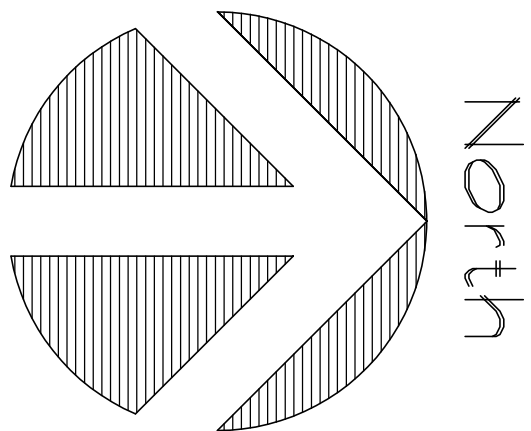
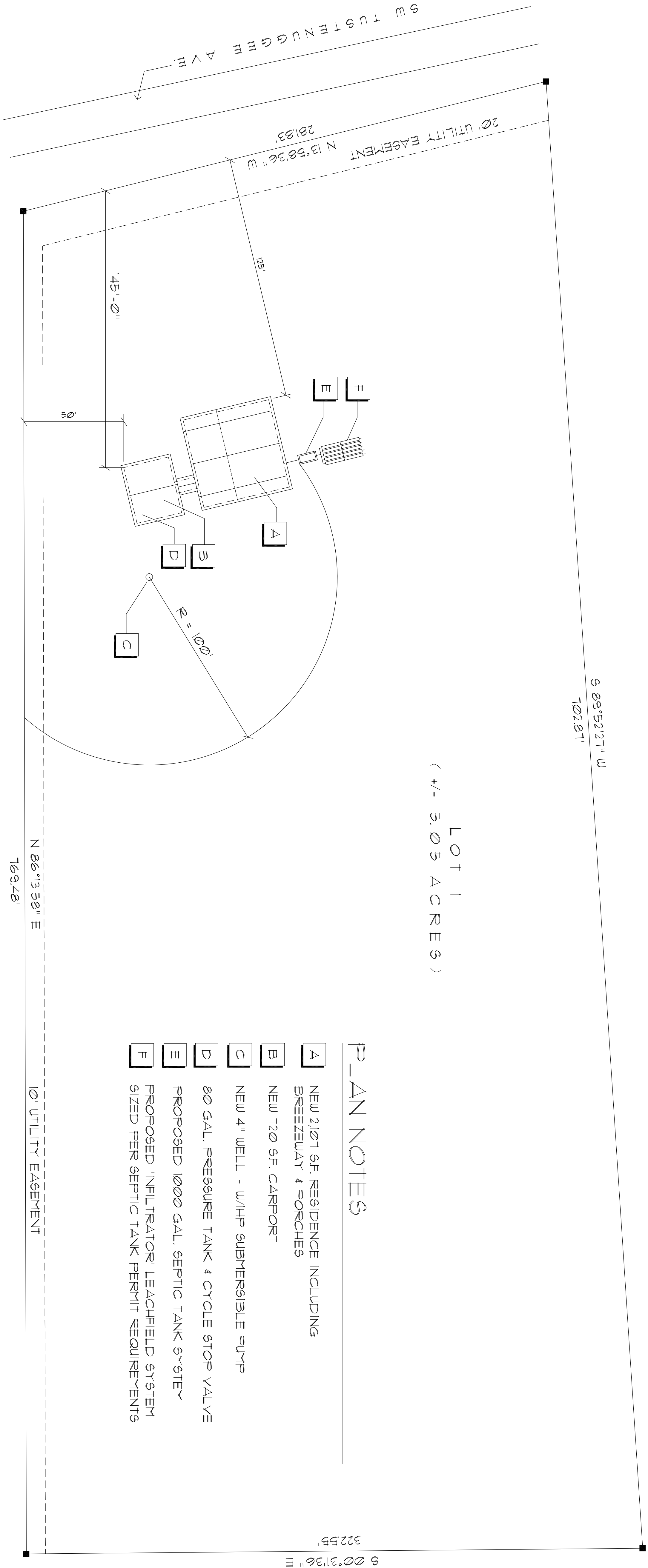




TAX PARCEL NO. 30-66-17-09807-102
SECTIONS 29 & 30, TOWNSHIP 6 SOUTH, RANGE 17 EAST, COLUMBIA COUNTY, FLORIDA



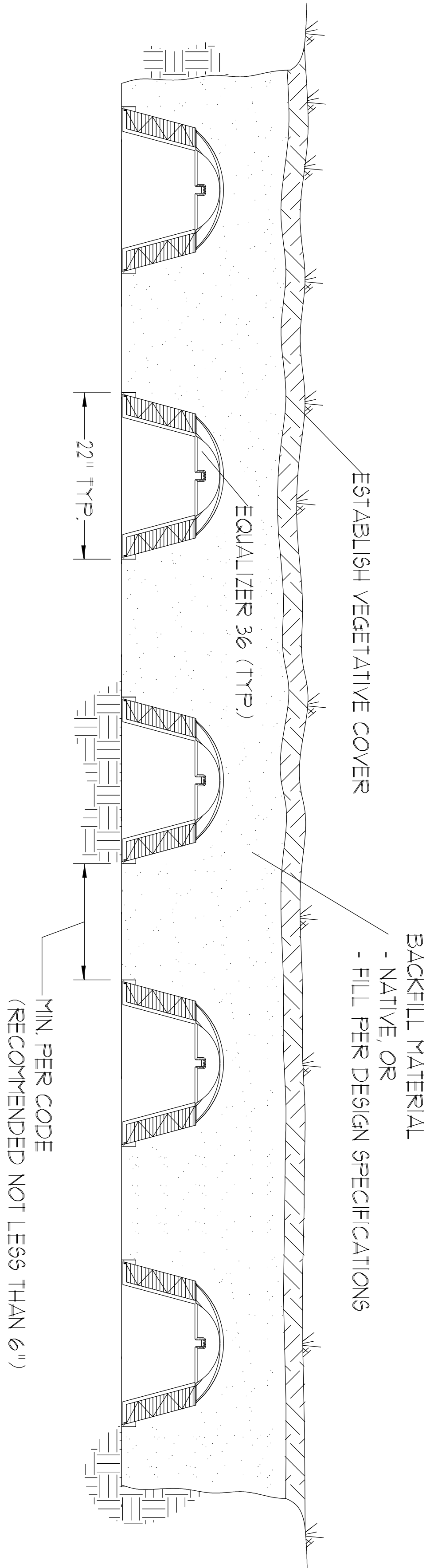
PLAN NOTES

- A NEW 2107 S.F. RESIDENCE INCLUDING BREEZEWAY & PORCHES
- B NEW 120 S.F. CARPORT
- C NEW 4" WELL - W/HP SUBMERSIBLE PUMP
- D 80 GAL. PRESSURE TANK & CYCLE STOP VALVE
- E PROPOSED 1000 GAL. SEPTIC TANK SYSTEM
- F PROPOSED INFILTRATOR LEACHFIELD SYSTEM SIZED PER SEPTIC TANK PERMIT REQUIREMENTS

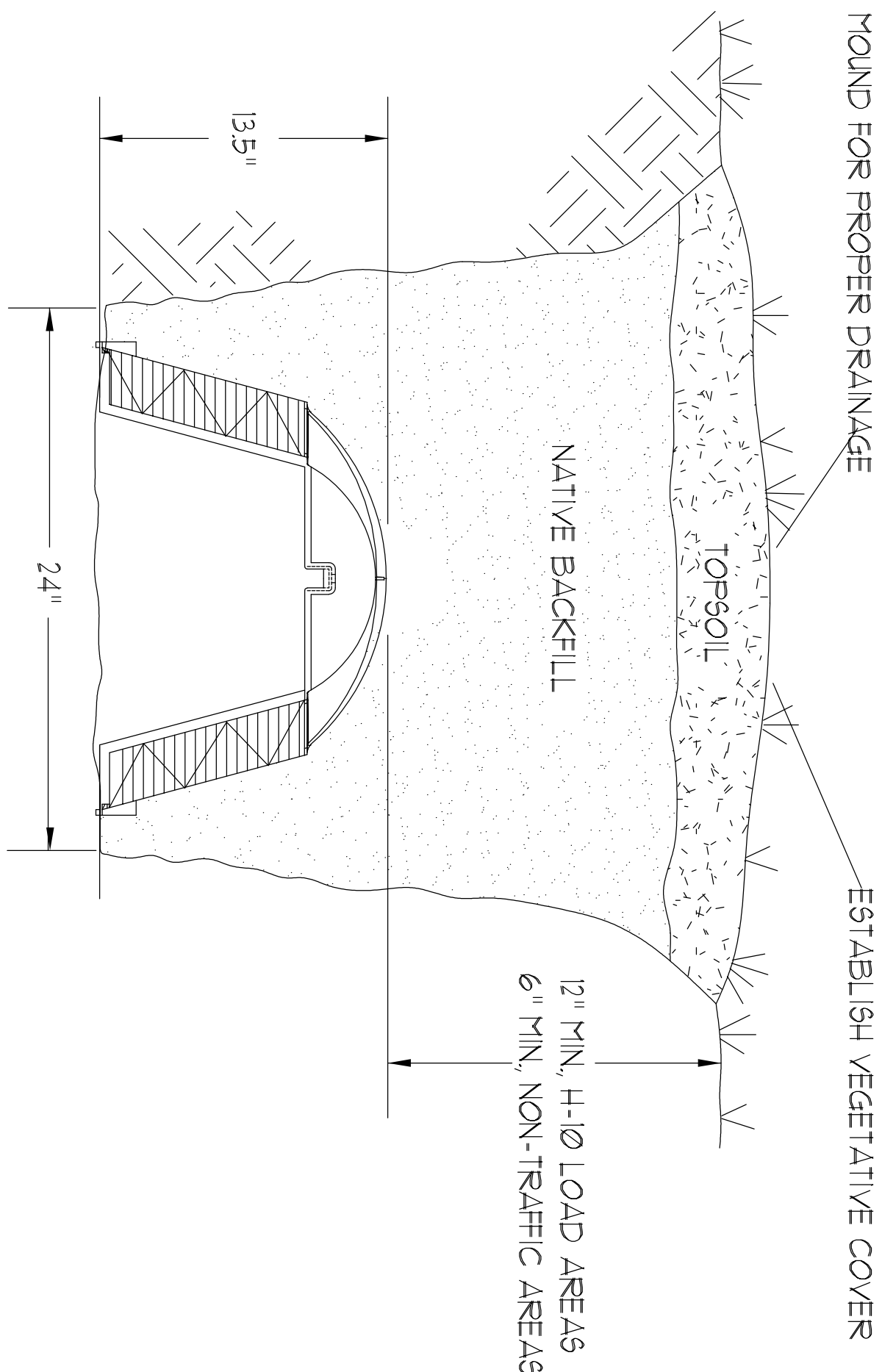
Site / Key PLAN

SCALE 1" = 30'

LAND DESCRIPTION
LOT 1 OF "THE MEADOWS OF TUSKENOOGEE" AS PER THE PLAT THEREOF RECORDED IN PLAT BOOK 6, PAGE 203, OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA



INFILTRATOR EQUALIZER 36 BED
NOT TO SCALE



EQUALIZER 36 TRENCH DETAIL
NOT TO SCALE

Digitally signed by: N. P. GEISLER
DN: CN = N. P. GEISLER C = US
O = AR0007005 OU = ARCHITECT
Date: 2020.06.23 10:51:39 -0500

DAVID J. ROYAL
ARCHITECTURAL DESIGNER
Lake City, Florida - 386-752-4610

NICHOLAS PAUL GEISLER
ARCHITECT
N.C.A.R.B. Certified
1799 NW Brown Rd.
Lake City, FL 32059
386-369-4399

DATE:
22JAN2019
CMT:

SHEET:

A.1
1 of 14

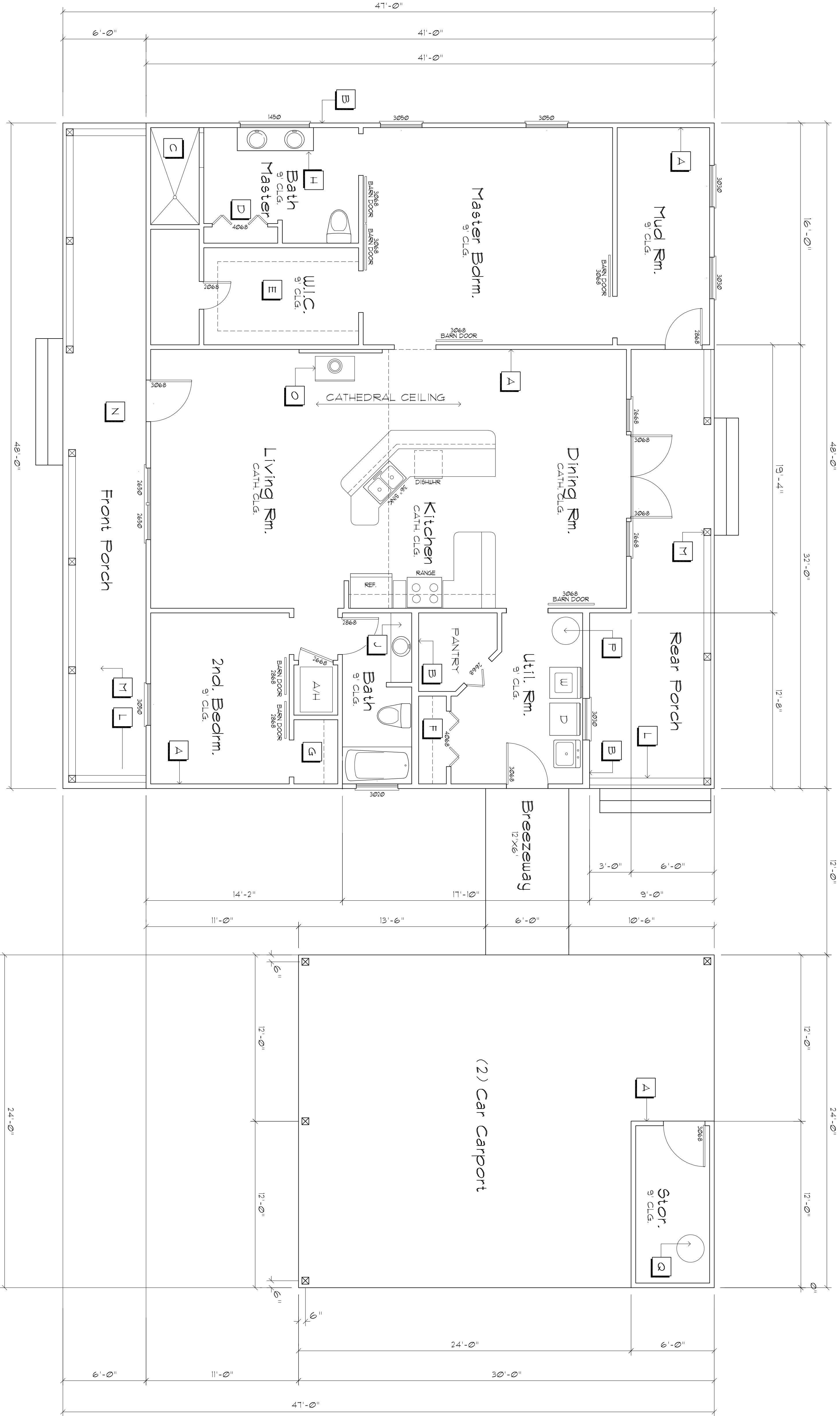
AR0007005

REVISION:

DRAWN:

DJR

CUSTOM DESIGNED HOME FOR:
Mr. Randy McNae
COLUMBIA COUNTY, FLORIDA
Site PLAN



Floor Plan

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

Plan Notes

- | | | | |
|----------|---|----------|---|
| A | 2X4 Nt. 2 FIR STUDS @ 16" O.C. | J | 48"X20"X30" H VANITY CABINET W/(1) LAVATORY |
| B | 2X6 Nt. 2 FIR STUDS @ 16" O.C. | L | 42" HIGH HANDRAIL |
| C | 42"X60" WALK-IN SHOWER | M | 6"X6" PORCH COLUMNS @ 8'-0" O.C. MAX. |
| D | LINEN & TOWEL CLOSET | N | PORCH STAIRS W/(5) R @ 6" T5" & (4) T @ 10"5" |
| E | WALK-IN CLOTHES CLOSET W/SH-ELF & ROD @ 6-6" AFF. | O | BUCKSTOVE FIREPLACE |
| F | STORAGE CLOSET | P | 50 GAL. ELECTRIC WATER HEATER |
| G | CLOTHES CLOSET W/SH-ELF & ROD @ 6-6" AFF. | Q | 80 GAL. PRESSURE TANK & CYCLE STOP VALVE |
| H | 12"X20"X30" H VANITY CABINET W/(2) LAVATORIES | | |

Design Data

- | |
|------------------------------|
| 1740 SF. - HEATED FLOOR AREA |
| 288 SF. - FRONT PORCH |
| 228 SF. - REAR PORCH |
| 12 SF. - COVERED BREEZEWAY |
| 120 SF. - (2) CAR CARPORT |
| 3048 SF. - TOTAL AREA |

Structural Design Data

- THE DESIGN COMPLIES WITH THE REQUIREMENTS OF THE 2017 FLORIDA BUILDING CODE - SECTION 1609 AND OTHER REFERENCED CODES AND SPECIFICATIONS. ALL CODES AND SPECIFICATIONS SHALL BE LATEST EDITION AT TIME OF PERMIT.
- WIND LOAD CRITERIA: RISK CATEGORY: 2, EXPOSURE: "B" BASED ON ASCE 7-10, 2017 FBC 1609-A WIND VELOCITY, V_{ULT} = 130 MPH V_{ASD} = 101 MPH
- ROOF DESIGN LOADS: SUPERIMPOSED DEAD LOADS:..... 20 PSF SUPERIMPOSED LIVE LOADS:..... 20 PSF
- FLOOR DESIGN LOADS: SUPERIMPOSED DEAD LOADS:..... 25 PSF SUPERIMPOSED LIVE LOADS:..... 40 PSF RESIDENTIAL BALCONIES 60 PSF
- WIND NET UPLIFT: ARE AS INDICATED ON PLANS

Digitally signed by: N. P. GEISLER
DN: cn=N. P. GEISLER c=US
o=AR0007005 OU=ARCHITECT
Date: 2020.06.23 10:52:45 -0500

REVISION:

DRAWN:

DJR

CUSTOM DESIGNED HOME FOR:

Mr. Randy McRae
COLUMBIA COUNTY, FLORIDA

Floor Plan



DAVID J. ROYAL
ARCHITECTURAL DESIGNER
Lake City, Florida • 386-782-4610

NG
NICHOLAS
GEISLER
ARCHITECT
1758 NW Brown Rd.
Lake City, FL 32005
386-365-4355

DATE:

22/JAN/2019

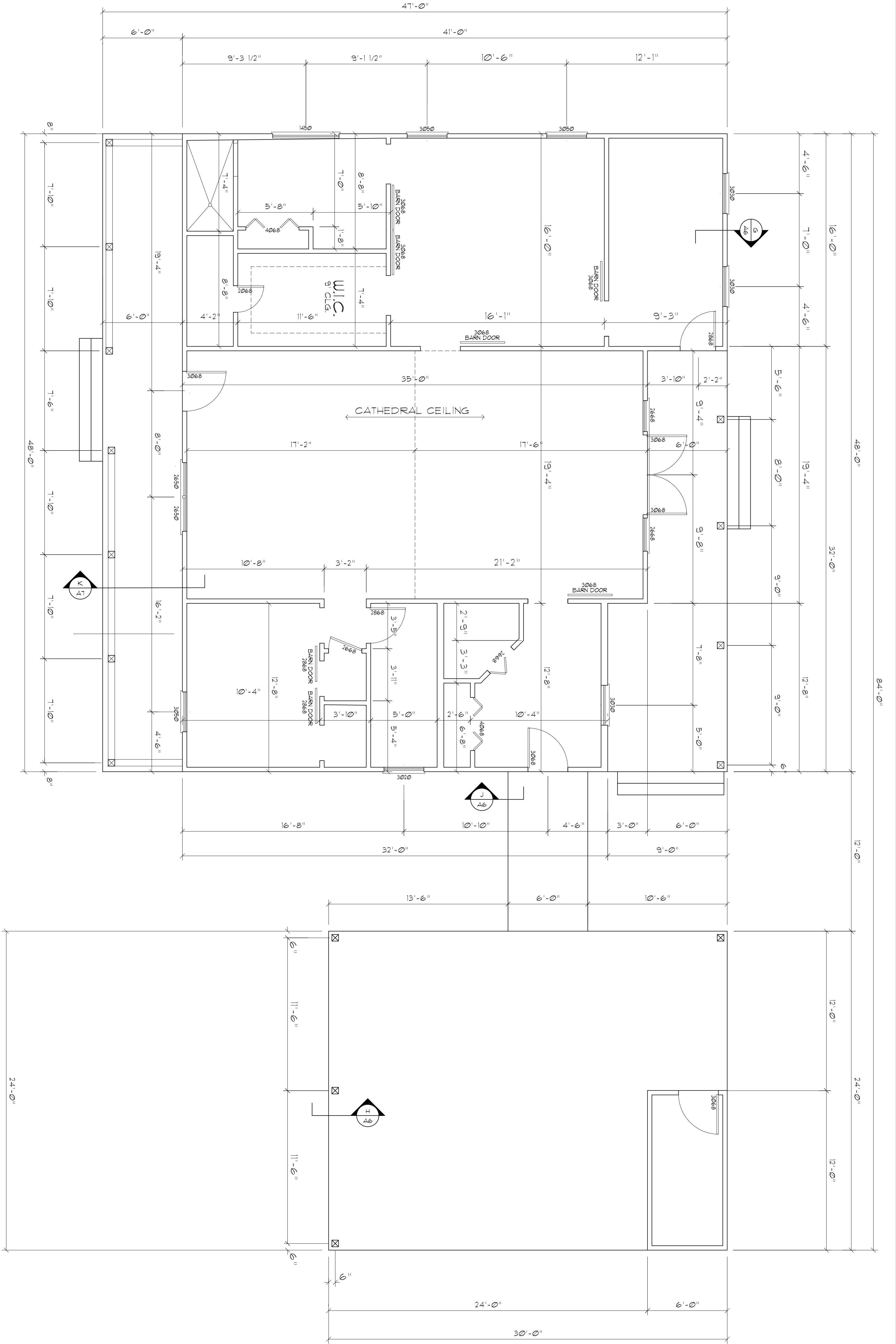
COMP:

SHEET:

A.2

2 of 14

AR0007005



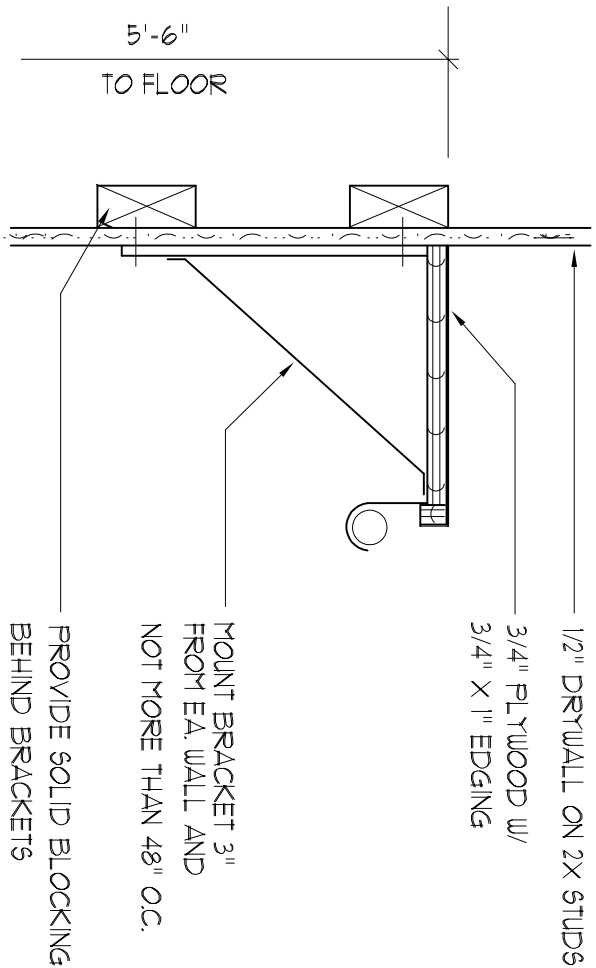
Dimension PLAN

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

Doors / Windows

TYP. WINDOW DESIGNATIONS	TYP. DOOR DESIGNATIONS
1450 = 60"x16" WINDOW	2068 = 24"x80" DOOR
2646 = 30"x54" WINDOW	2468 = 28"x80" DOOR
2650 = 30"x60" WINDOW	2668 = 30"x80" DOOR
3030 = 36"x36" WINDOW	2868 = 32"x80" DOOR
3046 = 36"x54" WINDOW	3068 = 36"x80" DOOR
3050 = 36"x60" WINDOW	
3054 = 36"x64" WINDOW	
3060 = 36"x72" WINDOW	
4020 = 48"x24" WINDOW	
4060 = 48"x72" WINDOW	

HEADER SPANS FOR EXTERIOR BEARING WALLS				
HEADERS SUPPORTING	HEADER SIZE	BUILDING WIDTH (FT)		
		20'	28'	36'
ROOF, CEILING	2-2x4	3'-6"	3'-2"	2'-10"
	2-2x6	5'-5"	4'-8"	4'-2"
	2-2x8	6'-10"	5'-11"	5'-4"
	2-2x10	8'-5"	7'-3"	6'-6"
	2-2x12	9'-9"	8'-5"	7'-6"
	3-2x8	8'-4"	7'-5"	6'-8"
	3-2x10	10'-6"	9'-1"	8'-2"
	3-2x12	12'-2"	10'-1"	9'-5"
	4-2x8	9'-2"	8'-4"	5'-2"
	4-2x10	11'-8"	10'-6"	9'-5"
	4-2x12	14'-1"	12'-2"	10'-11"



Closet Rod & Shelf Detail

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

Digitally signed by N. P. GEISLER
DN: cn=N. P. GEISLER c=US
O=AR0007005 OU=ARCHITECT
Date: 2020.06.23 10:53:19 -0500

DAVID J. ROYAL
ARCHITECTURAL DESIGNER
Lake City, Florida • 386-782-4610

NICHOLAS
ROADS
GEISLER
ARCHITECT
1758 NW Brown Rd.
Lake City, FL 32099
386-365-4355

DATE:
22 JAN 2019

COMPI:

SHEET:

A.3
3 of 14

AR0007005

REVISION:

DRAWN:

DJR

CUSTOM DESIGNED HOME FOR:
Mr. Randy McRae
COLUMBIA COUNTY, FLORIDA
Dimension Plan

REVISION:

DRAWN:

DJR

CUSTOM DESIGNED HOME FOR:
Mr. Randy McRae
COLUMBIA COUNTY, FLORIDA
Exterior ELEVATIONS

DAVID J. ROYAL
ARCHITECTURAL DESIGNER
Lake City, Florida • 386-782-4670

N3
NICHOLAS
DAVID
GEISLER
ARCHITECT
N.C.A.R.B. Certified
1798 NW Brown Rd.
Lake City, FL 32099
386-369-4399

DATE:

COMPI:

SHEET:

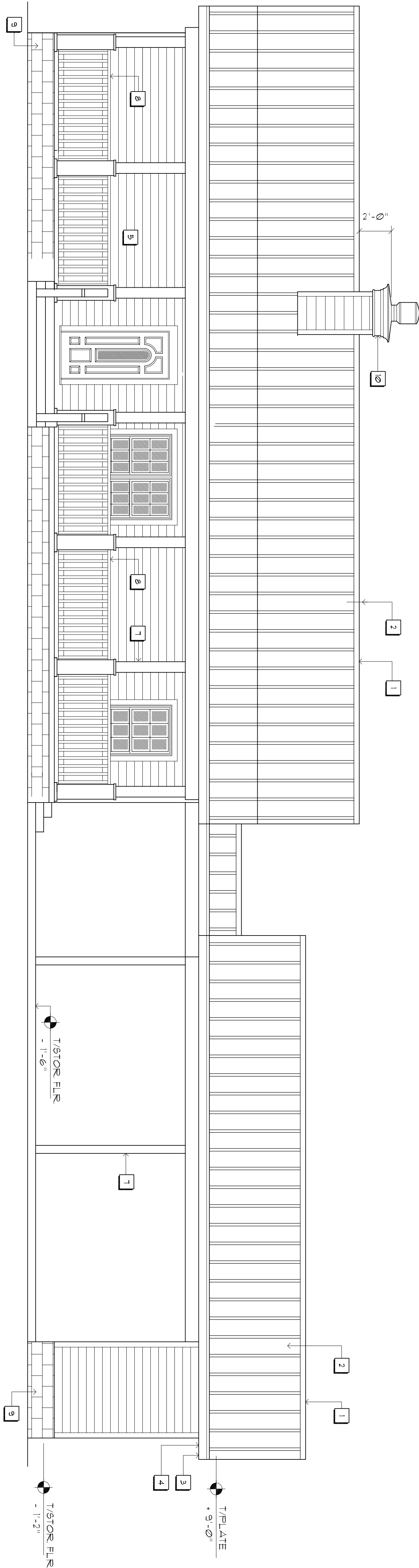
A.4
4 of 14

EXTERIOR FINISH LIST

- 1 CONTINUOUS RIDGE VENT
- 2 24 GA. METAL ROOF SYSTEM
- 3 ALUMINUM FASCIA & SOFFIT
- 4 TYP. 16" OVERHANG
- 5 6" HARBORD SIDING
- 6 24" LOUVERED / SCREENED VENT
- 1 6X6 COLUMN BOXED PER OWNER
- 8 42" HIGH RAILING
- 9 8" CONCRETE BLOCK STEPMALL
- 10 WOOD FRAMED CHIMNEY W/DURAPLUS
TRIPLE WALL CHIMNEY PIPE OR EQUAL

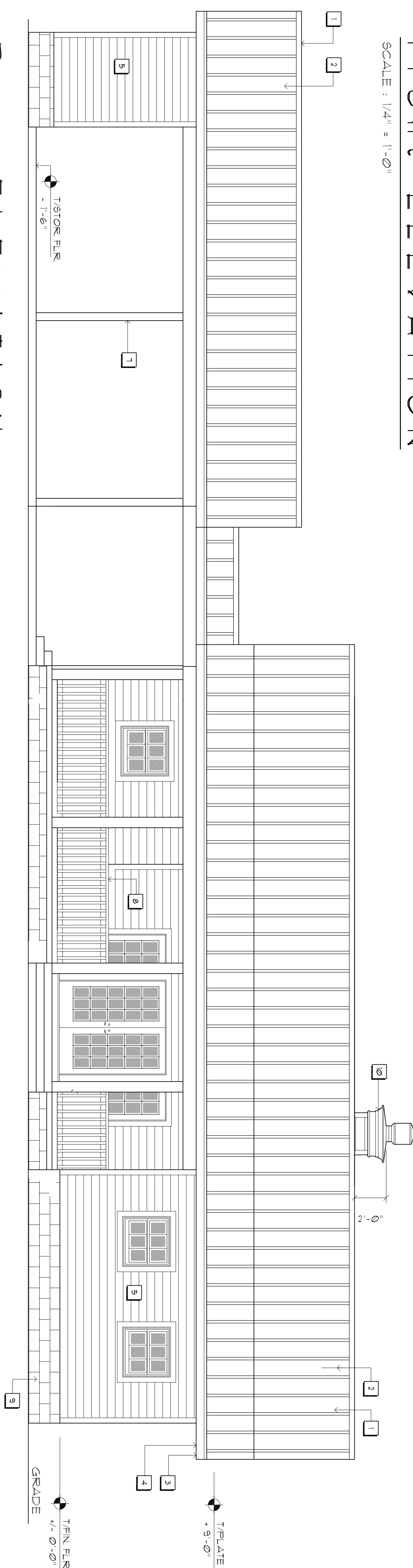
Front ELEVATION

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



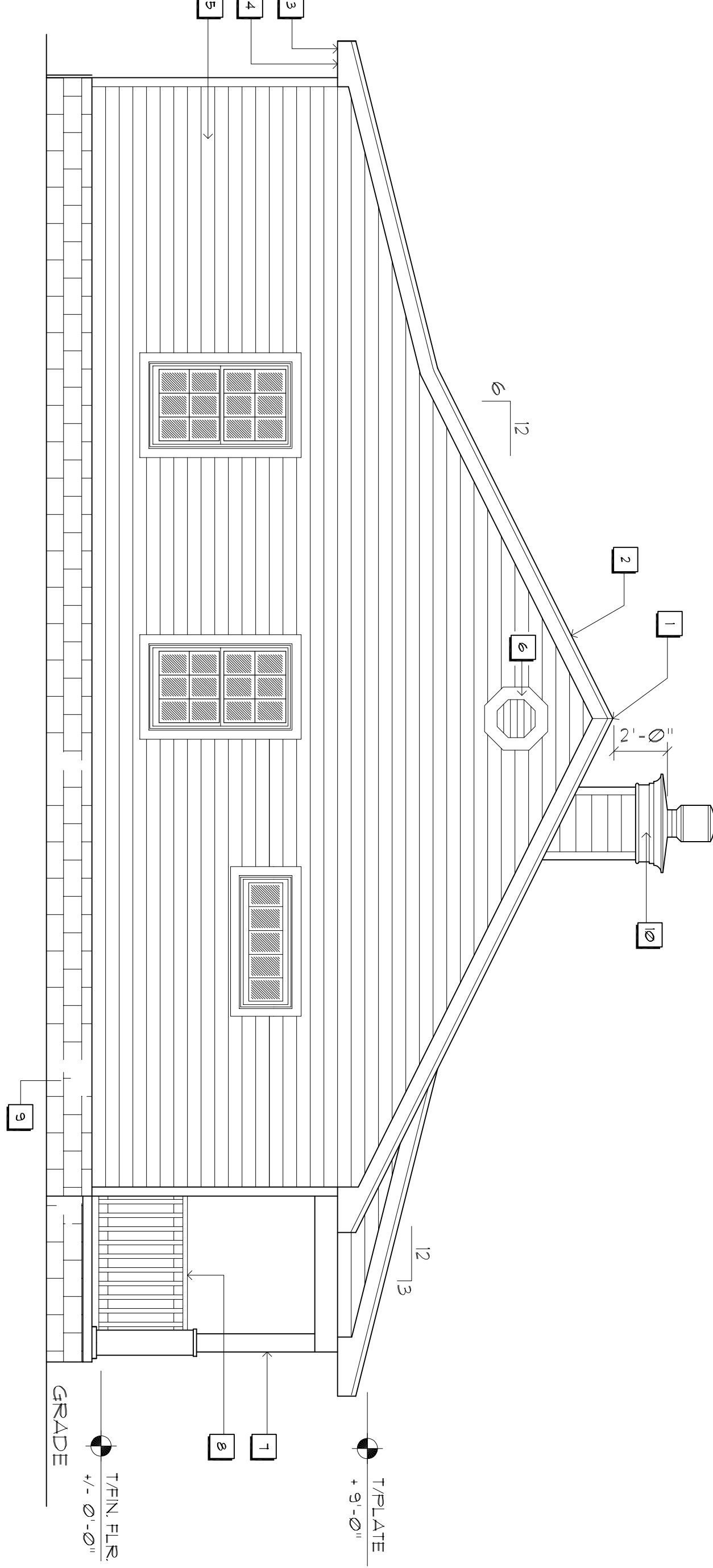
Rear ELEVATION

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



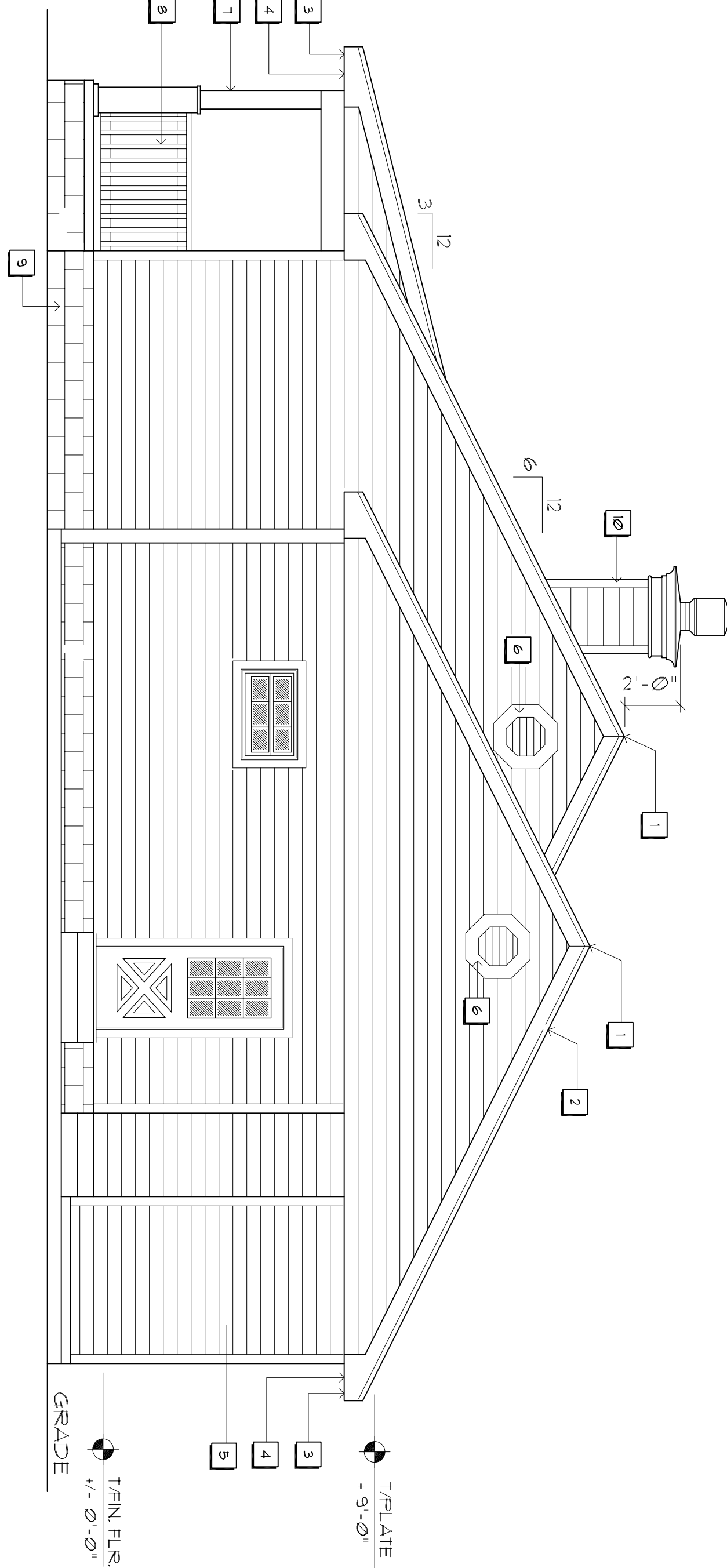
Right Side ELEVATION

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



Left Side ELEVATION

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



Digitally signed by: N. P. GEISLER
DN: CN = N. P. GEISLER C = US
O = AR0007005 DJR + ARCHITECT
Date: 2020.06.23 10:53:48 -0500

AR0007005

REVISION:

DRAWN:

DJR

CUSTOM DESIGNED HOME FOR:
Mr. Randy McRae
COLUMBIA COUNTY, FLORIDA
Foundation Plan

DAVID J. ROYAL
ARCHITECTURAL DESIGNER
Lake City, Florida • 386-782-4610

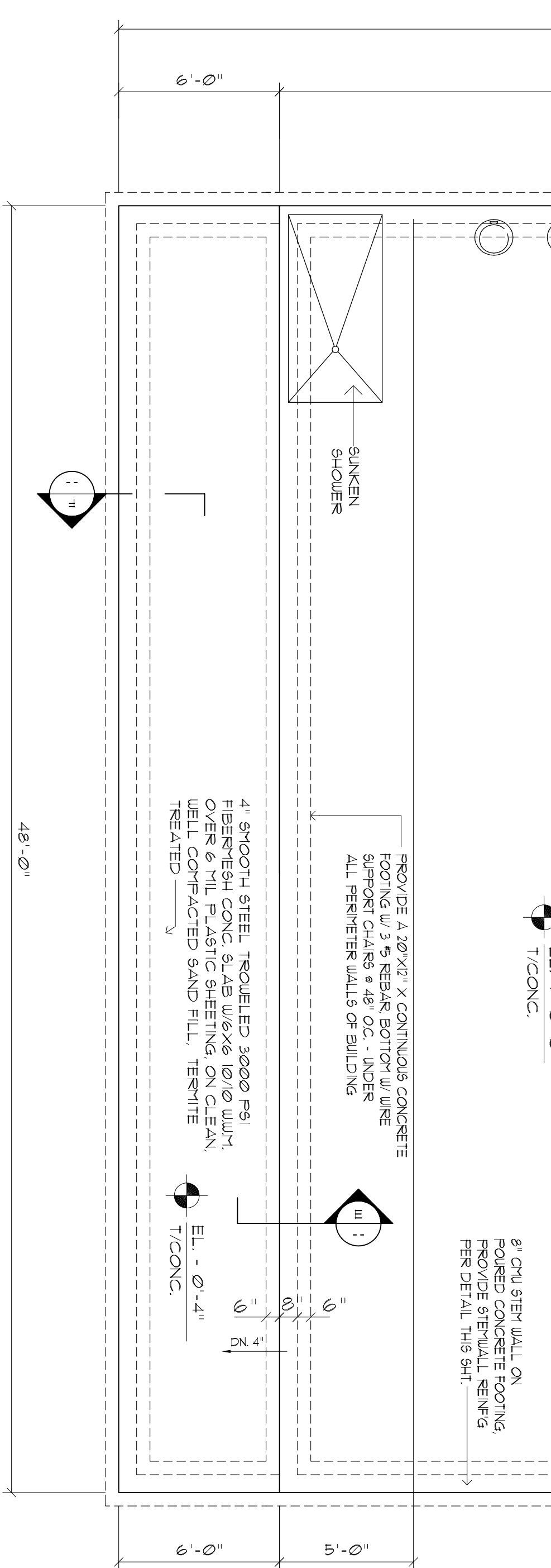
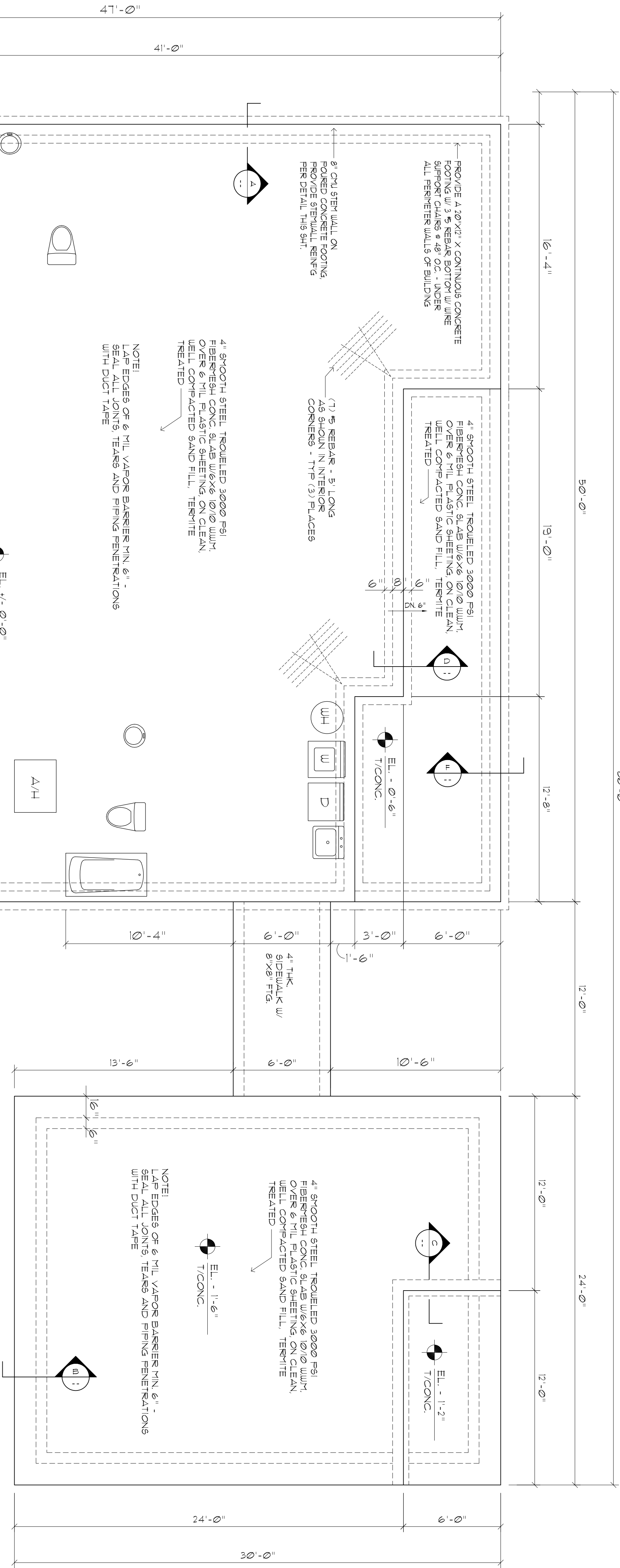
NICHOLSON
NICHOLSON
ARCHITECT
1300 N. Brown Rd.
Lake City, FL 32909
386-365-4355

DATE:
COMPI:

SHEET:
A.5
5 of 14

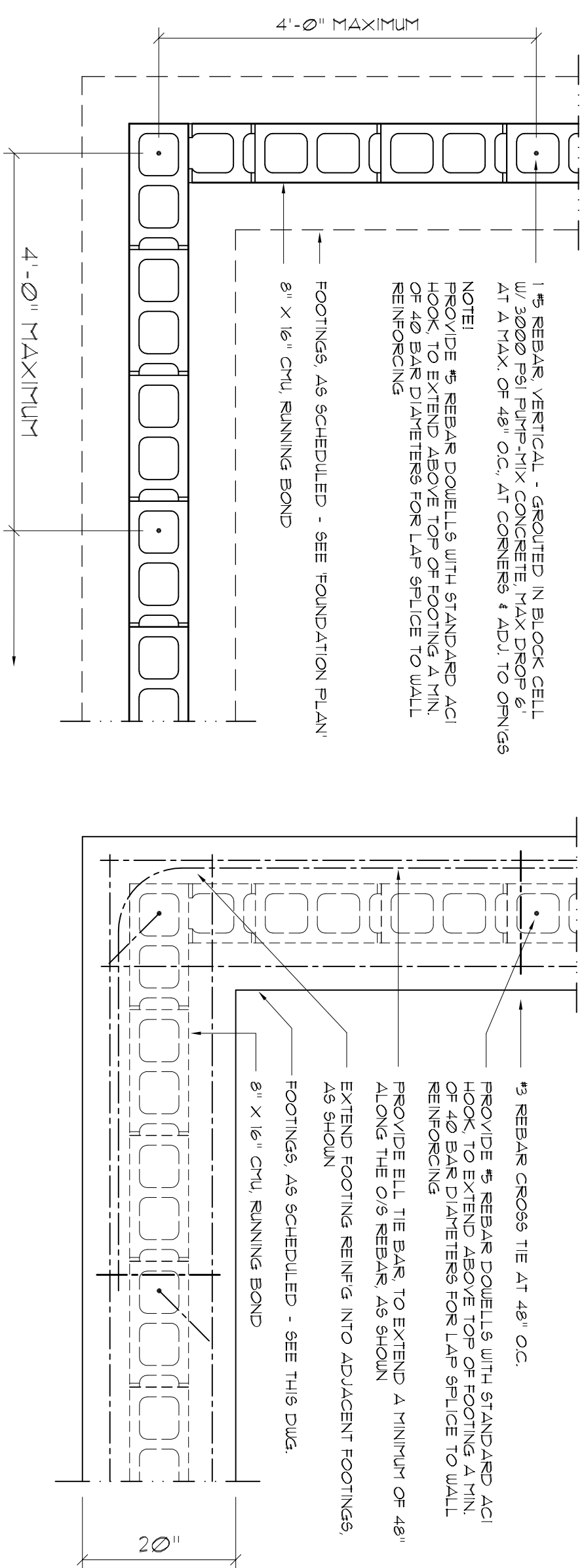
NOTE!
PRIOR TO THE CONSTRUCTION OF THE FOUNDATION, THE CONTRACTOR SHALL COORDINATE ANY INTERIOR BEARING WALLS WITH THE FOUNDATION PLAN. ANY INTERIOR BEARING LOCATIONS OR ANY POINT LOADS OF 40 K OR GREATER SHALL BE SUPPORTED VIA A MODIFIED FOUNDATION PLAN TAKING THESE LOADS INTO CONSIDERATION. THE CONTRACTOR SHALL MAKE THE ENGINEERED REBAR SHOT BOLTS AVAILABLE TO THE ARCHITECT FOR REVIEW PRIOR TO POURING ANY CONCRETE.

- GENERAL CONCRETE NOTES:**
- ALL CONCRETE WORK SHALL CONFORM TO THE AMERICAN CONCRETE INSTITUTE STANDARD 318-11.
 - ALL CONCRETE SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 3,000 PSI.
 - ALL REINFORCING STEEL SHALL CONFORM TO ASTM A-615, GRADE 40, EXCEPT AS NOTED.
 - ALL REINFORCING STEEL SHALL HAVE A MIN. COVER OF 1" FOR SLABS, FOR CONCRETE COVERED EXPOSED TO WEATHER OR EARTH, 2" FOR CONCRETE COVERED AND WEATHERED, AND 3" FOR WEATHERED CONCRETE AGAINST ADJACENT AND PERMANENTLY EXPOSED TO EARTH.
 - UNLESS OTHERWISE NOTED, REINFORCED LAP SPICES SHALL BE ACI CLASS B SPICES USING THE FOLLOWING LAP LENGTHS:
#4 - 16"
#5 - 20"
#6 - 25"
#7 - 32"
 - PRIOR TO PLACING CONCRETE, ALL REINFORCING STEEL SHALL BE FREE OF LOOSE RUST AND SCALE OR ANY FOREIGN MATERIAL.
 - PRIOR TO PLACING CONCRETE REFER TO ARCHITECTURAL, PLUMBING, FRING, INSTRUMENTATION AND ELECTRICAL DRAWINGS FOR EMBEDDED ITEMS.



Foundation Plan

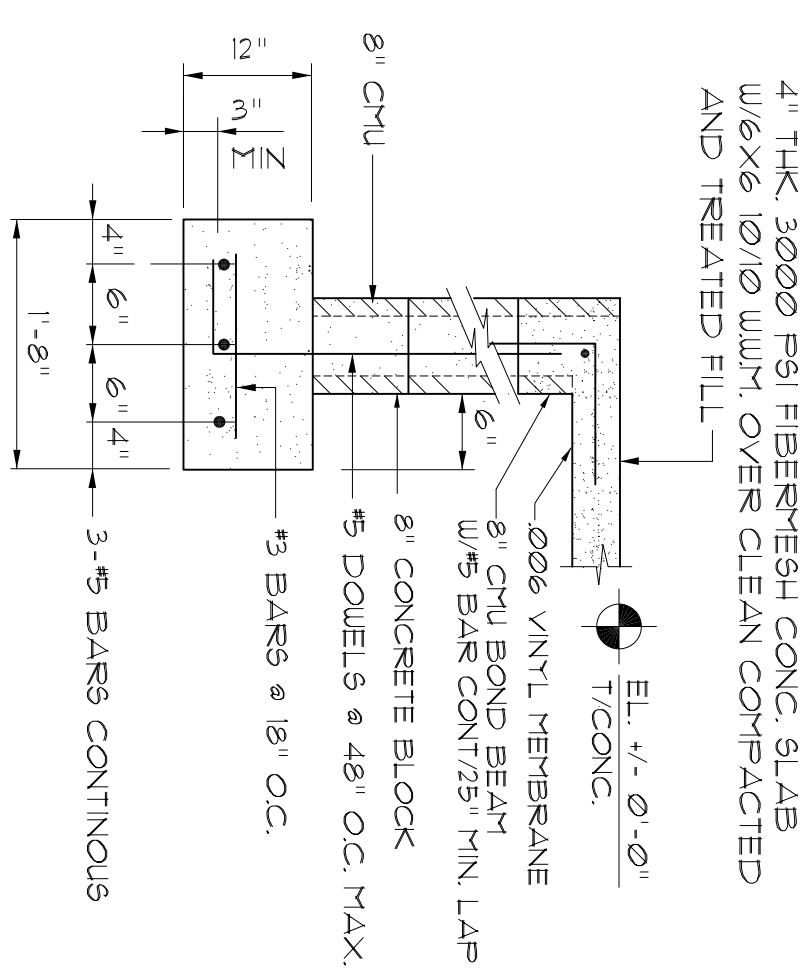
SCALE : 1/4" = 1'-0"



Wall/Foundation Reinf'g Detail

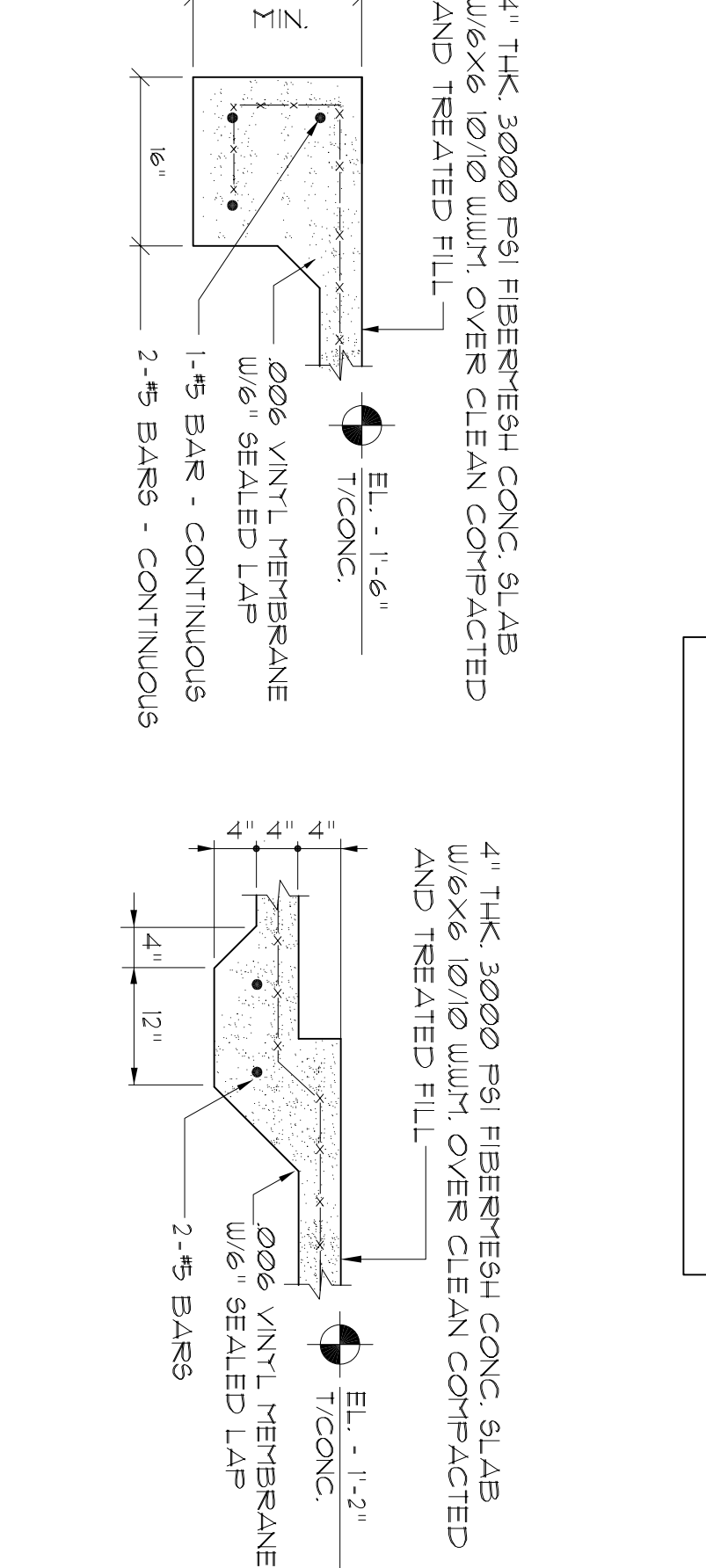
Section A

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



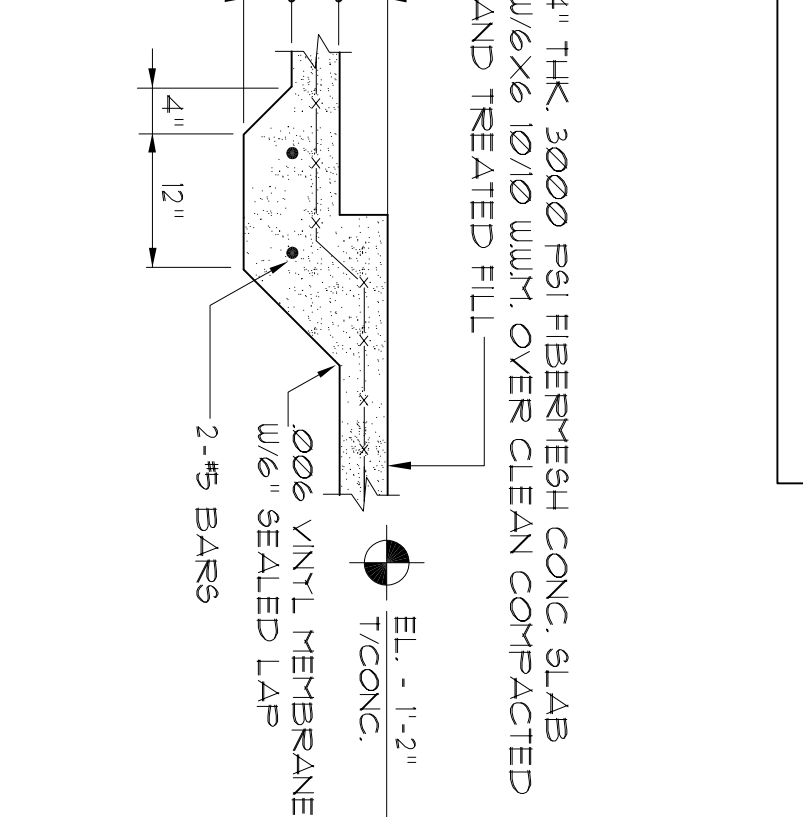
Section B

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



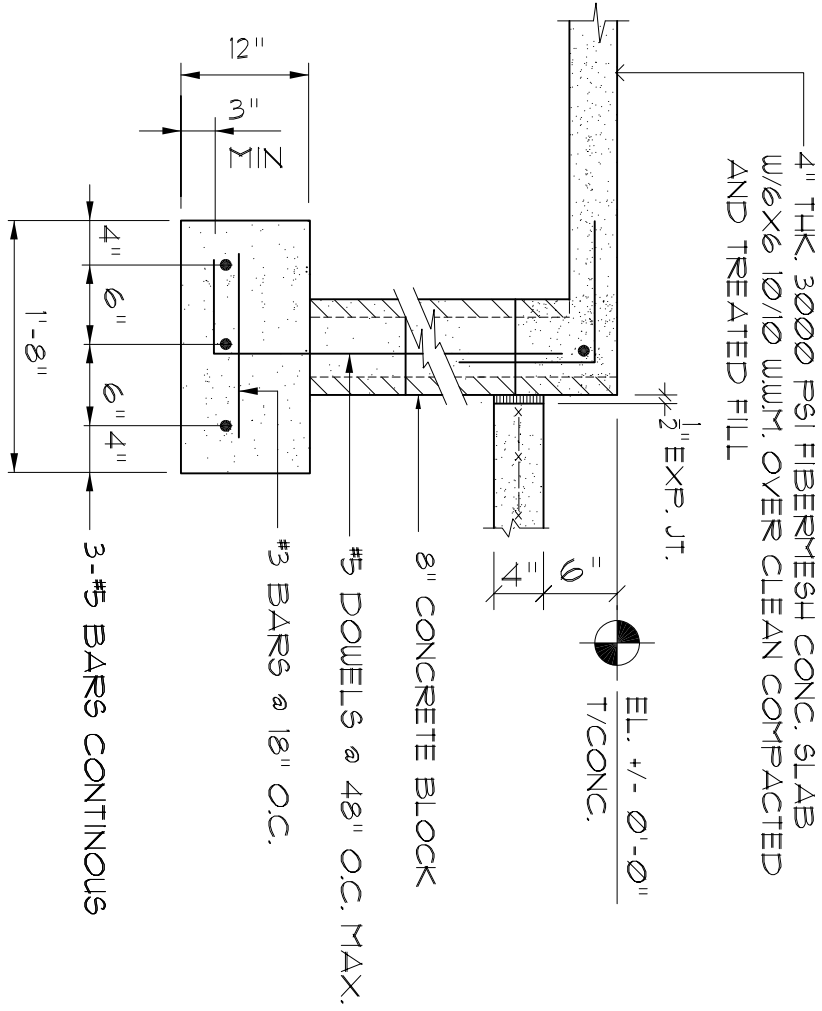
Section C

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



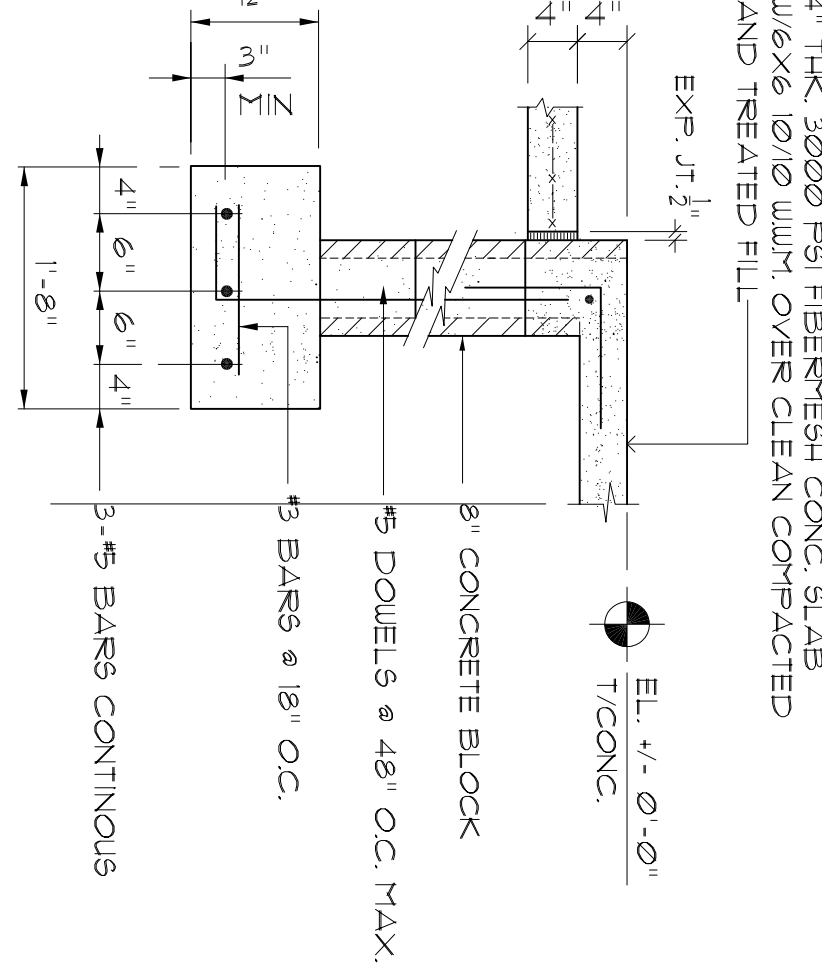
Section D

REAR PORCH @ HOUSE
SCALE 3/4" = 1'-0"



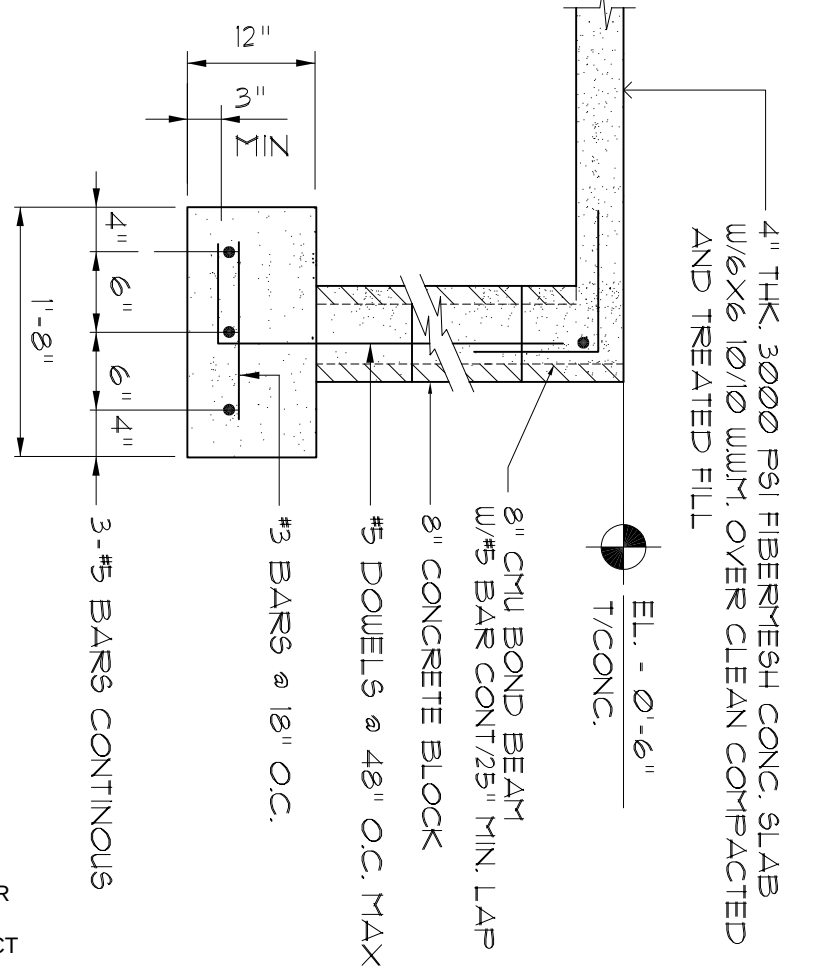
Section E

FRONT PORCH @ HOUSE
SCALE 3/4" = 1'-0"



Section F

REAR PORCH
SCALE 3/4" = 1'-0"



Digitally signed by N. P. GEISLER
DN: CN = N. P. GEISLER C = US
O = AR0007005 OU = ARCHITECT
Date: 2020.06.23 13:54:32 -0500

AR0007005

REVISION:

DRAWN:
DJR

CUSTOM DESIGNED HOME FOR:
Mr. Randy McRae
COLUMBIA COUNTY, FLORIDA
Typical Wall Sections

DAVID J. ROYAL
ARCHITECTURAL DESIGNER
Lake City, Florida • 386-782-4610

NJ
NICHOLAS J. GEISLER
ARCHITECT
N.C.A.R.B. Certified
1198 NW Brown Rd.
Lake City, FL 32025
386-369-4359

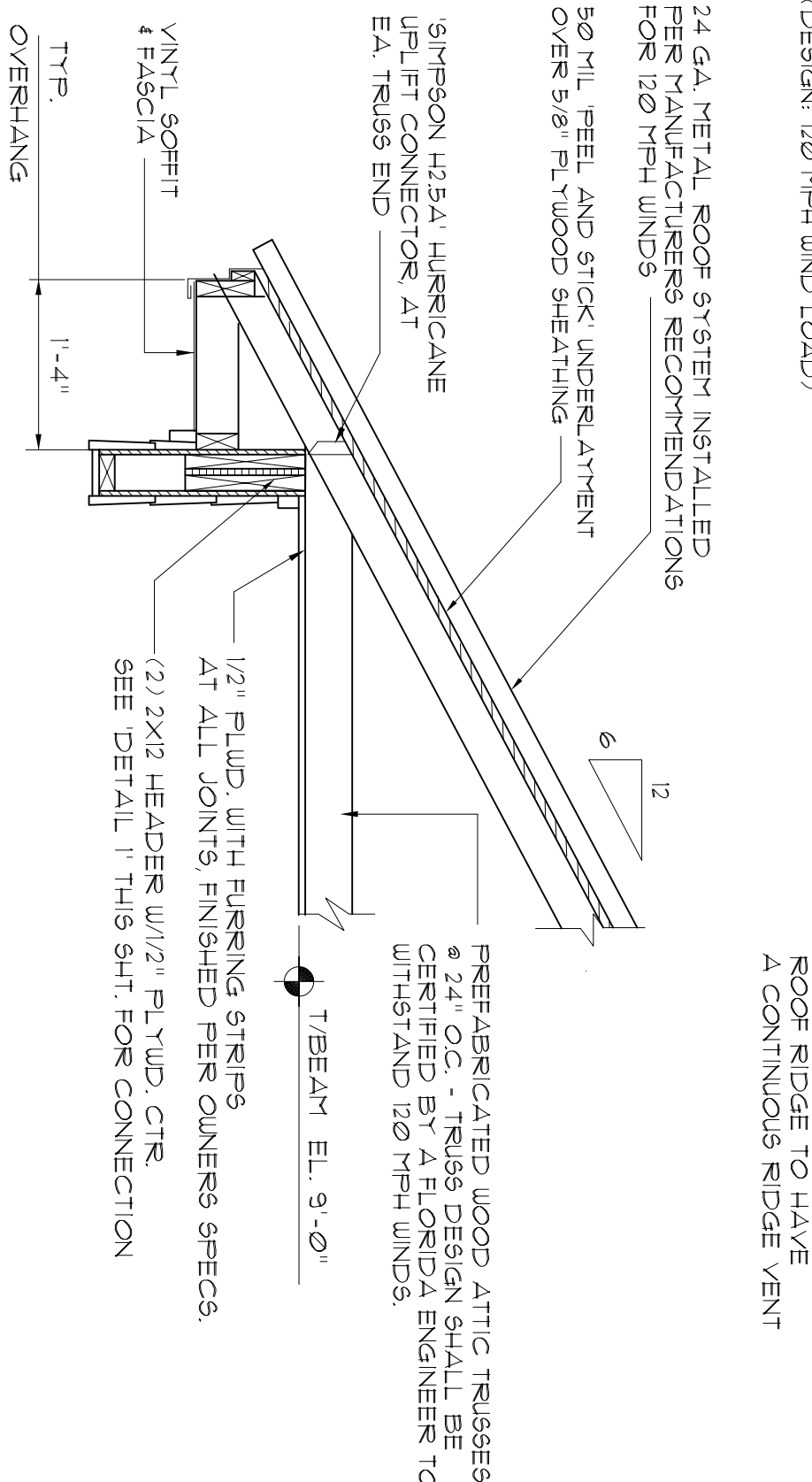
DATE:
22/JAN/2019
COMPI:

SHEET:

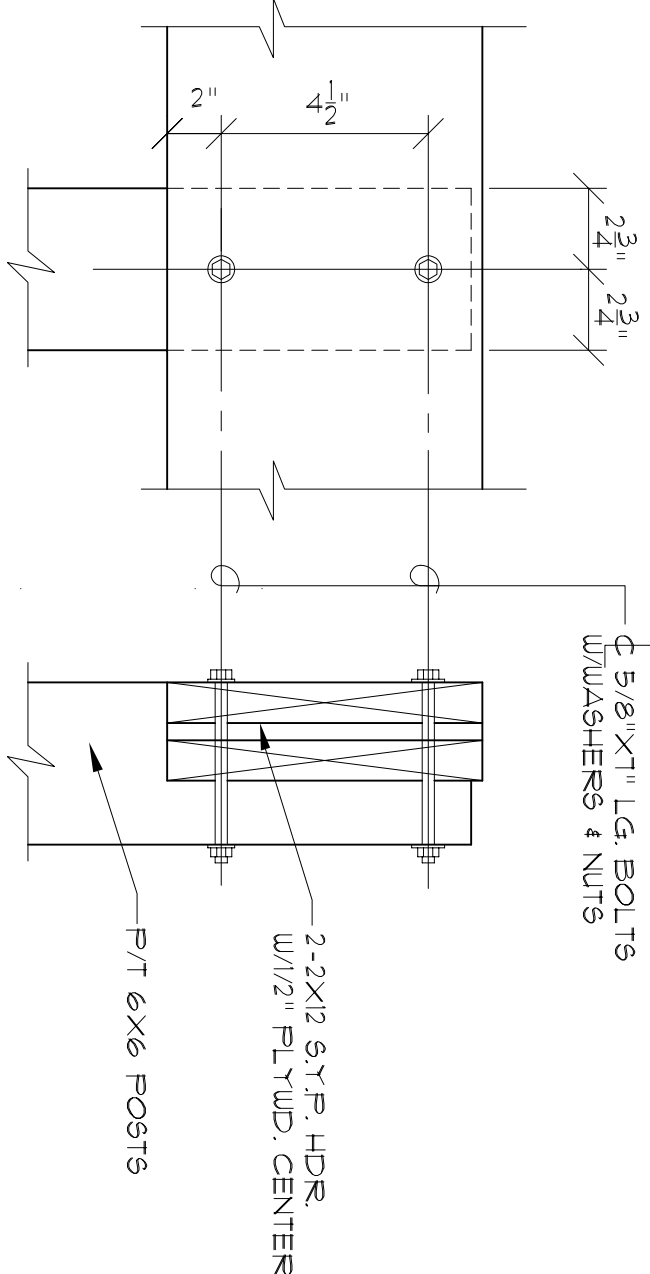
A.6
6 of 14

Digitally signed by: N. P. GEISLER
DN: CN = N. P. GEISLER C = US
O = AR0007005 DJR = ARCHITECT
Date: 2020.06.23 10:55:17 -0500

AR0007005



T y p. S e c t i o n
BREEZEWAY SECTION
SCALE 3/4" = 1'-0"



D e t a i l
BEAM / POST CONNECTION
SCALE: N.T.S.

GALV UPLIFT CONNECTORS SHALL BE PROVIDED AT EACH TRUSS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SECTION 1609.3 (DESIGN: 120 MPH WIND LOAD)

24 GA METAL ROOF SYSTEM INSTALLED PER MANUFACTURERS RECOMMENDATIONS FOR 120 MPH WINDS

50 MIL FEEL AND STOCK UNDERLAYMENT OVER 5/8" PLYWOOD SHEATHING

SIMPSON 125A1 HURRICANE UPLIFT CONNECTOR AT EA. TRUSS END

PREFABRICATED WOOD ATTIC TRUSSES @ 24" O.C. - TRUSSES DESIGN SHALL BE CERTIFIED BY A FLORIDA ENGINEER TO WITHSTAND 120 MPH WINDS

1/2" PLYD WITH FINISHING STRIPS AT ALL JOINTS, FINISHED PER QUINERS SPECS.

(2) 2X12 HEADER W/1/2" PLYD. CTR. SEE DETAIL I THIS SH. FOR CONNECTION

6" HARDBOARD LAP SIDING

P/T 6"x6" POSTS, BOXED PER QUINERS SPECIFICATIONS

NOTE: P/T 6"x6" POSTS, BOXED PER QUINERS SPECIFICATIONS

6"x6" POSTS, USE SIMPSON ABULK6 BASE CONNECTORS @ EA. COLUMN

4" THK. 3000 PSI FIBERFRESH CONC. SLAB W/6"x6" W/10" WUM. OVER CLEAN COMPACTED AND TREATED FILL

T/CONCRETE EL. (FIELD VERIFY)

006 VINYL MEMBRANE W/6" SEALED LAP

1-#5 BAR - CONTINUOUS

CLEAN COMPACTED FILL
ALL FILL SHALL BE SPREAD UNIFORM T N SIX TO EIGHT INCH LIFTS AND COMPACTED TO AT LEAST NINETY FIVE PERCENT (95%) OF THE MAXIMUM DRY DENSITY OBTAINED BY THE MODIFIED PROCTOR METHOD.

GALV UPLIFT CONNECTORS SHALL BE PROVIDED AT EACH TRUSS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SECTION 1609.3 (DESIGN: 120 MPH WIND LOAD)

24 GA METAL ROOF SYSTEM INSTALLED PER MANUFACTURERS RECOMMENDATIONS FOR 120 MPH WINDS

50 MIL FEEL AND STOCK UNDERLAYMENT OVER 5/8" PLYWOOD SHEATHING

SIMPSON 125A1 HURRICANE UPLIFT CONNECTOR AT EA. TRUSS END

PREFABRICATED WOOD ATTIC TRUSSES @ 24" O.C. - TRUSSES DESIGN SHALL BE CERTIFIED BY A FLORIDA ENGINEER TO WITHSTAND 120 MPH WINDS

5/8" GYP/UM BOARD 2-2X4 SYP TOP PL.

1/2" GYP/UM BOARD 2-2X HEADER SEE DETAIL I THIS SH. FOR CONNECTION

2-2X HEADERS SEE DETAIL I THIS SH. FOR CONNECTION

NOTE: PROVIDE TYPICAL WIND INFILTRATION BARRIER OVER EXTERIOR PLYWOOD SHEATHING.

VINYL WINDOWS W/SCREENS SEE FLOOR PLAN DIMS. NO. 2 FOR SIZES & LOCATION SEE DIMS. A3 FOR FASTENER REQUIREMENTS

NOTE: EXTERIOR WALL SHEATHING:
APPLY VERTICALLY "UNDISTORTED" 1/16" OSG. 48 X31 1/2" OR 145" SHEATHING. LASTER EITHER TOP PLATE AND 9/16" PLYD OR 1/2" GYP/UM BOARD. 9/16" PLYD OR 1/2" GYP/UM BOARD TO EACH STUD WITH EITHER 6d COMMON NAILS @ 6" O.C. OR 8d COMMON NAILS @ 8" O.C.

1/16" OSG. "UNDISTORTED" SHEATHING SEE DETAIL SH. A8

2-2X4 SILL PLATE 2X4 STUD WALLS @ 16" O.C.

W/13 BATT INSULATION 1/2" ANCHOR BOLTS @ 48" O.C. W/ 2X2X1/8" WASHERS (MINIMUM 6" EMBEDMENT)

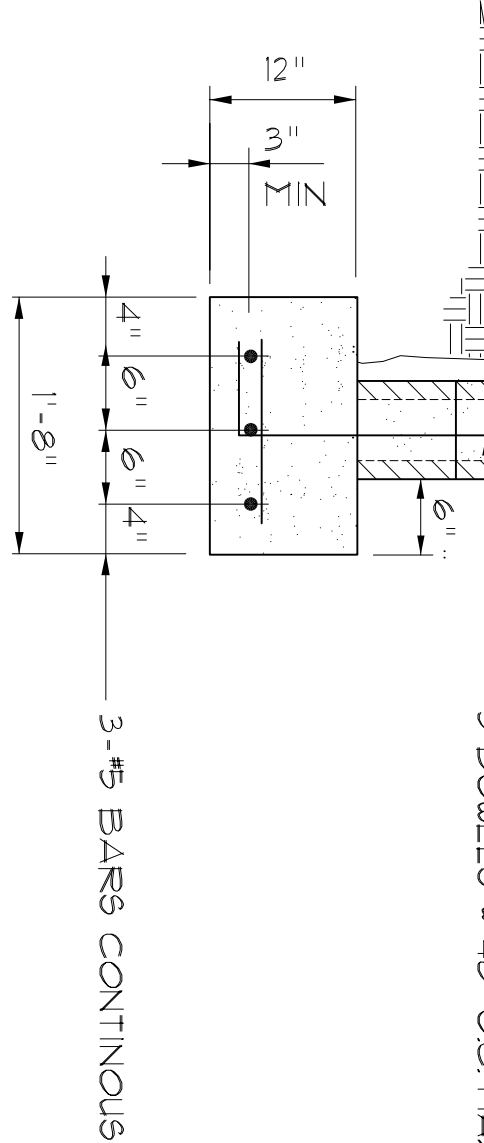
2X4 P/T PLATE 4" THK. 3000 PSI FIBERFRESH CONC. SLAB W/6"x6" W/10" WUM. OVER CLEAN COMPACTED AND TREATED FILL

T/AIN. FL. EL. +/- 0'-0"

006 VINYL MEMBRANE W/6" SEALED LAP

8" CHU BOND BEAM W/5 BAR CONT/25" MIN. LAP

5 DOUELS @ 48" O.C. MAX.



T y p. W a l l S e c t i o n
HOUSE WALL SECTION
SCALE 3/4" = 1'-0"

T y p. W a l l S e c t i o n
CARPORT SECTION
SCALE 3/4" = 1'-0"

NOTE: ASSUMED SOIL BEARING CAPACITY 1500 PSF

CUSTOM DESIGNED HOME FOR:
Mr. Randy McRae
COLUMBIA COUNTY, FLORIDA

Typical Framing Details



DAVID J. ROYAL
ARCHITECTURAL DESIGNER
Lake City, Florida • 386-752-4670

DATE: 22JAN2019
COMM:

A.8 OF 14

0 1 2 3 4 5 6 7 8 9

Softit / Droppes Clg.

SCALE : NONE

FREEBLOCKING NOTES:

1. IN CONCEALED SPACES OF STUD WALLS AND PARTITIONS INCLUDING FURRED SPACES AT CEILING AND FLOOR LEVELS.

SCALE : NONE

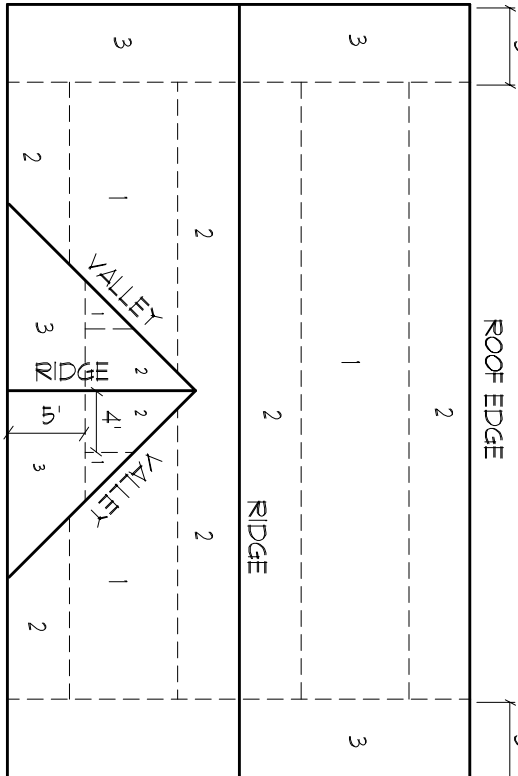


DAVID J. ROYAL
ARCHITECTURAL DESIGNER

DATE: 22 JAN 2019
COMM:
SHEET: 9 OF 12

AR00007005

ROOF SHEATHING FASTENINGS			
NAILING ZONE	SHEATHING TYPE	FASTENER	S PACING
1		10d COMMON OR 10d HOT D IPED BOX NAILS	6" m, 6" oc EDGE 12" m, 6" oc FIELD
2	5/8" CDX PLYWOOD OR 1/4" OSB		6" m, 6" oc EDGE 12" m, 6" oc FIELD
3			4" m, 6" oc, 8" GABLE ENDWALL OR GABLE ROOF 6" m, 6" oc, EDGE 12" m, 6" oc, FIELD



ROOF SHEATHING NAILING ZONES
(GABLE ROOF)

Notes

SCALE : NONE

[illegible]

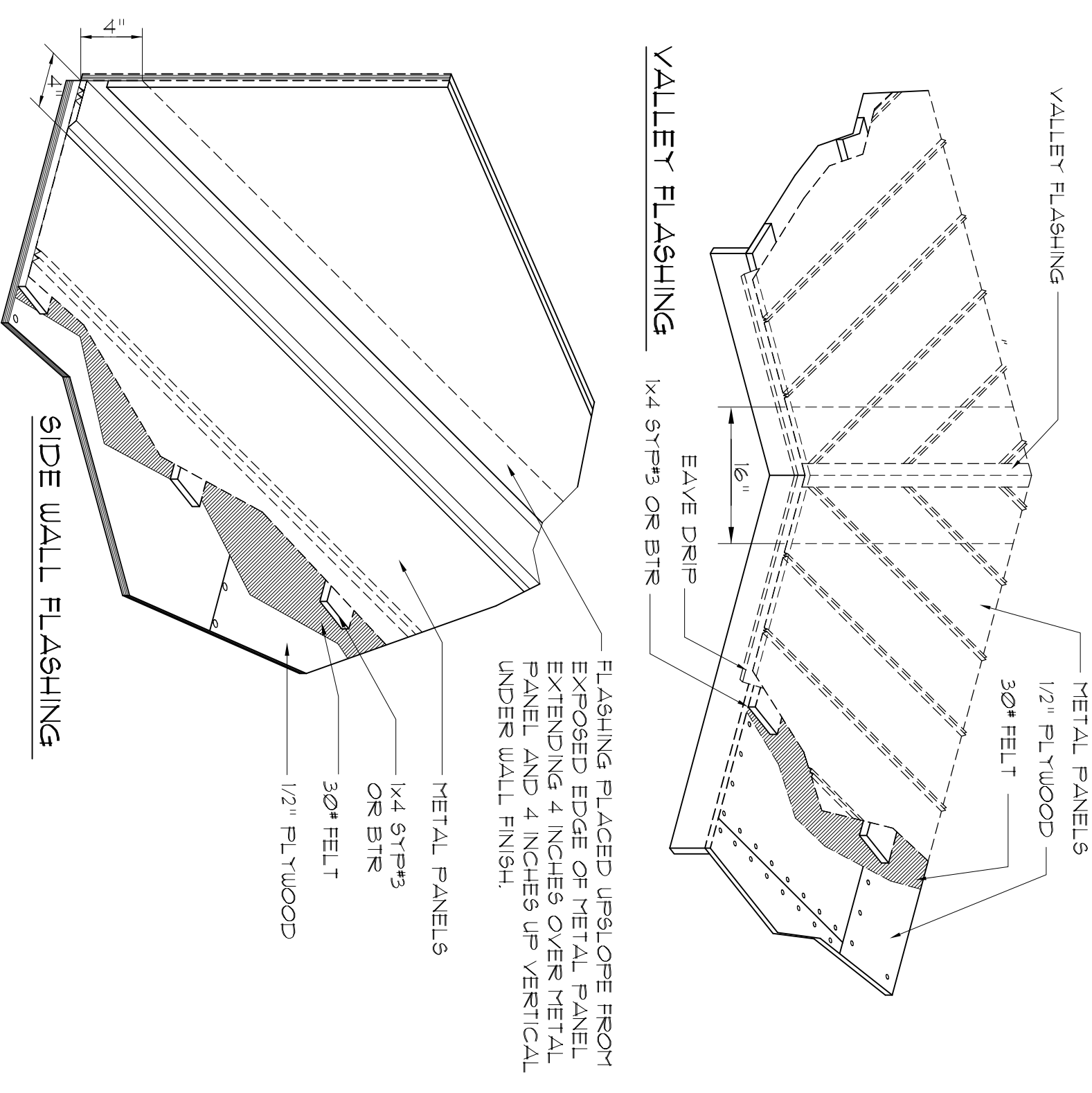
WOOD STRUCTURAL NOTES

1. TEMPORARY BRACING OF THE STRUCTURE DURING ERECTION REQUIRED FOR SAFE AND STABLE CONSTRUCTION SHALL BE THE SOLE RESPONSIBILITY OF THE TRUSS FABRICATOR. THE TRUSS FABRICATOR SHALL BE RESPONSIBLE FOR PROTECTING THE TRUSS FROM DAMAGE TO THE TRUSS PLATE LINE OF THE TRUSS PLATE MEMBER.
 2. ALL TRUSSES SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER. SHALL BE DESIGNED AND SEALED BY SAID TRUSS DESIGN ENGINEER. THE DESIGN SHALL BE IN ACCORDANCE WITH THE TRUSS DESIGN CONNECTIONS & THE STANDARD SPECIFICATIONS & RECOMMENDATIONS OF INSTALLATION OF THE TRUSS PLATE MEMBER.
 3. ROOF STIFFEN IN EXTERIOR WALLS & INTERIOR EXTERIOR WALLS SHALL BE NOT LESS THAN 1/2" DEEPER OR BETTER.
 4. CONNECTORS FOR ROOF RAYING SHALL BE GALVANIZED METAL OR GALVANNEAL. THE CONNECTORS SHALL BE WELDED TO THE TRUSS CHORDS AND BE OF A DESIGN SUFFICIENT TO LOADS AND VIBRATION INTENDED REFER TO THE JOINT REINFORCEMENT SCHEDULE FOR BRIDGE FILE CONNECTIONS.
 5. THE DESIGN WIND SPEED FOR THIS PROJECT IS 100 MPH PER FLOOD BUILDING CODE 1606B AND LOCAL JURISDICTION REQUIREMENTS.
 6. SHEATH ROOF W/ 5/8" CFX PLYWOOD OR OSB W/ LONG EDGE PERPENDICULAR TO THE ROOF TRUSSES SECURED TO RAYING W/ 10d NAIL PER NAILING & CONNECTOR SCHEDULE.
-
- NOTES:**
1. WORK THIS DRAWING WITH TRUSS PROFILES AND DESIGN LAYOUT PROVIDED BY A CERTIFIED FLORIDA ENGINEER TO WITHSTAND 120 MPH WINDS.

NOTES

Digitally signed by: N. P. GEISLER
DN: CN = N. P. GEISLER C = US
O = AR0007005 OU = ARCHITECT
Date: 2020.06.23 11:22:37 -05'00'

5M-RIB METAL ROOFING PANELS ALTERNATE FASTENER SCHEDULE FOR VARIOUS WIND VELOCITIES MANUFACTURER'S RECOMMENDED FASTENER SCHEDULE FOR BUILDINGS W/ 25' MEAN ROOF HEIGHT MIN 3/12 PITCH BASED ON ASCE 7-98, EXPOSURE "C"									
ROOF ZONE	FASTENER TYPE	FASTENER SIZE	PLACEMENT TO SPACING	10" - 10'	10" - 13'0"	14" - 15'0"	O/C TRIM	O/C TRIM SPACING	O/C TRIM
1	WD. SCREW	9/8 X 1 1/2"	WOOD	36"	18"	24"	24"	24"	12"
	MTL. SCR.	9/8 X 1 1/2"	< 18 GA	36"	18"	24"	24"	24"	12"
2 & 3	WD. SCREW	9/8 X 1 1/2"	WOOD	36"	18"	24"	12"	24"	8"
	MTL. SCR.	9/8 X 1 1/2"	< 18 GA	36"	18"	24"	12"	24"	8"

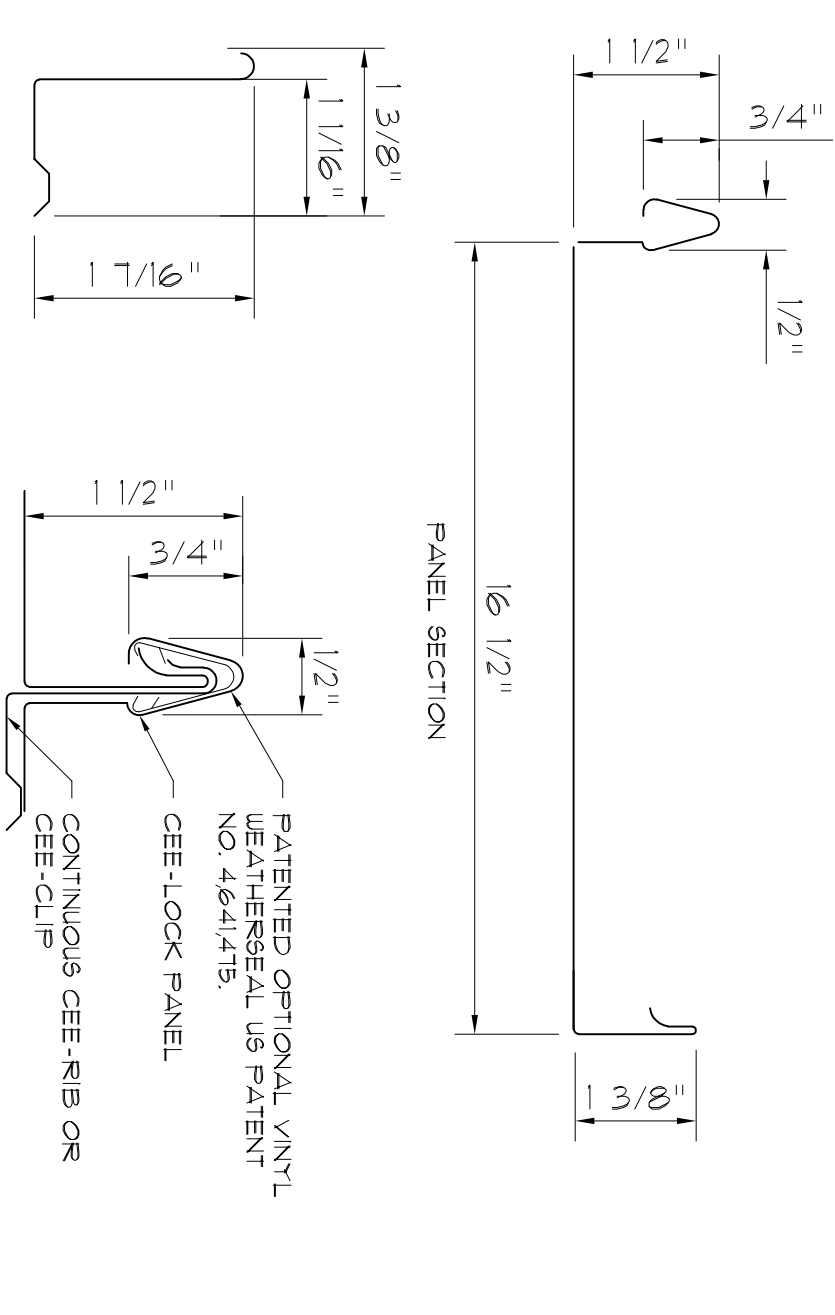


5M-RIB PANEL INSTALLATION NOTES

- UNDERLAYMENT APPLICATION:**
FOR ROOF SLOPES FROM 3/12 TO 4/12, UNDERLAYMENT SHALL BE A MIN OF TWO LAYERS, APPLIED AS FOLLOWS:
1.1 STARTING AT THE EAVE, A 18 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 15 INCHES AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
- FOR ROOF SLOPES 4/12 AND GREATER, UNDERLAYMENT SHALL BE A MIN OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
- FOR ROOF SLOPES 4/12 AND GREATER, UNDERLAYMENT SHALL BE A MIN OF ONE LAYER OF UNDERLAYMENT FELT APPLIED AS FOLLOWS:
1. STARTING AT THE EAVE, UNDERLAYMENT SHALL BE APPLIED SINGLE FASHION PARALLEL TO THE EAVE, LAPPED 2 INCHES, AND FASTENED SUFFICIENTLY TO STAY IN PLACE.
- BASE AND CAP FLASHING:**
BASE FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ THESE INSTALLATION INSTRUCTIONS. BASE FLASHING SHALL BE EITHER CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS .009 INCH OR METAL SURFACE ROLL ROOFING WEIGHING A MINIMUM OF 71 LBS PER 100 SQUARE FEET. CAP FLASHING SHALL BE CORROSION RESISTANT METAL OF MINIMUM NOMINAL THICKNESS OF .009 INCH.
- VALLEYS:**
VALLEYS SHALL BE INSTALLED IN ACCORDANCE W/ MANUFACTURER'S INSTALLATION INSTRUCTIONS BEFORE APPLYING ROOFING MATERIAL. VALLEY LINGS OF THE FOLLOWING TYPES SHALL BE PERMITTED:
1. OPEN VALLEY'S LINED WITH METAL, THE VALLEY LINING SHALL BE AT LEAST 16" WIDE AND OF ANY OF THE CORROSION RESISTANT METALS IN REC. TABLE 607132.
2. OPEN VALLEY'S, VALLEY LINING OF TWO PLIES OF MINERAL SURFACE ROLL ROOFING SHALL BE PERMITTED. THE BOTTOM VALLEY'S SHALL BE 18 INCHES AND THE TOP LAYER A MINIMUM OF 36 INCHES WIDE.
3. CLOSED VALLEY'S SHALL BE 18 INCHES WIDE AND BE ONE OF THE FOLLOWING:
1. ONE PLY OF SMOOTH ROLL ROOFING AT LEAST 36 INCHES WIDE AND COMPLYING WITH ASTM D 224.
2. SPECIALTY UNDERLAYMENT AT LEAST 36 INCHES WIDE & COMPLYING WITH ASTM D 9120.
- DECK REQUIREMENTS:**
1. METAL PANELS MUST BE FASTENED TO MIN 5/8" CDX PLYWOOD.
2. CLIP SPACING ON SOLID SHEATHING TYPICALLY 36" ON CENTER.
- CAULKING:**
METAL PANELS SHALL BE USED ONLY ON ROOF SLOPES OF 3/12 OR GREATER.
FASTENERS FOR METAL PANELS SHALL BE GALVANIZED WOOD FASTENERS MIN OF 9/8 X 1 1/2" HEX. HEAD. BASE AND CAP FLASHING SHALL BE INSTALLED IN ACCORDANCE W/ THESE INSTALLATION INSTRUCTIONS.

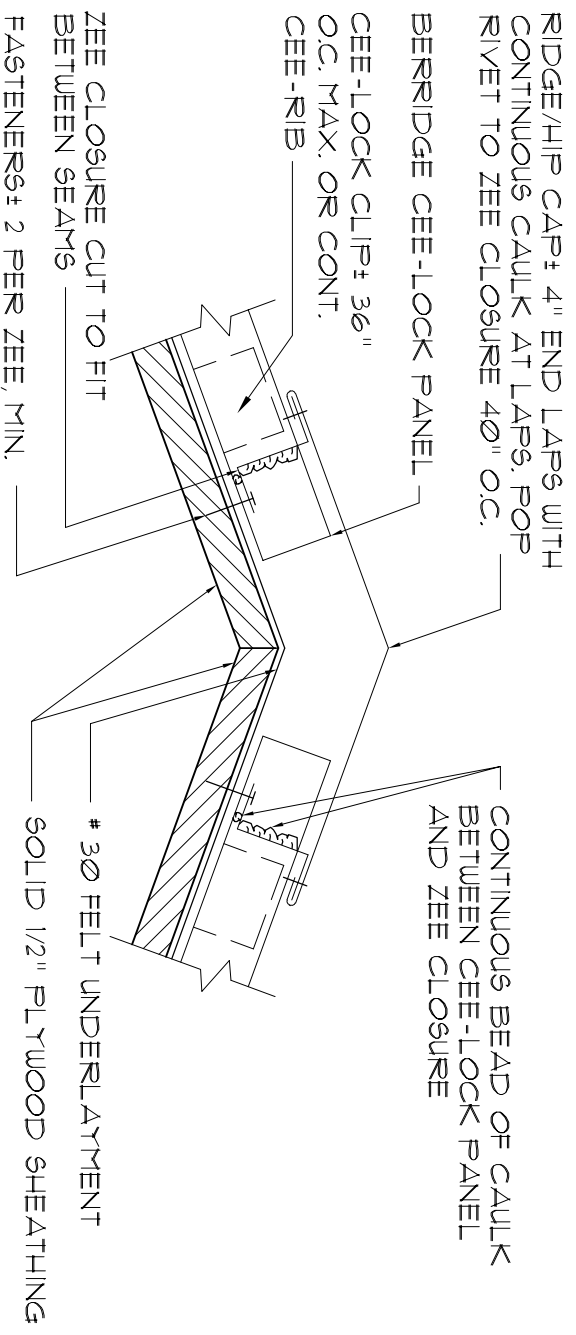
STANDING SEAM PANEL INSTALLATION NOTES

- DOUBLE LAYER OF NUMBER THIRTY FELT UNDERLAYMENT OR CALK, AND THE CEE-LOCK OPTIONAL VINYL WEATHERSEAL (US PATENT NO. 4,641,475) ARE REQUIRED FOR ALL APPLICATIONS WHERE THE ROOF SLOPE IS 3 ON 12 OR LESS.
- STRIPPABLE FILM, THE STRIPPABLE PLASTIC FILM WHICH IS APPLIED OVER YOGT PROVIDES PROTECTION OF THE FINISH DURING FABRICATION AND TRANSHIP. THIS FILM MUST BE REMOVED PRIOR TO INSTALLATION.
- SOLID SHEATHING REQUIREMENTS, 5/8" PLYWOOD SHEATHING SHALL BE USED TO PROVIDE SUFFICIENT HOLDING POWER FOR FASTENERS.
- SHEATHING INSPECTION:
 - A. SHEATHING END JOINTS SHOULD BE STAGGERED.
 - B. ALL END JOINTS SHOULD MEET AT EITHER A JOIST OR Rafter.
 - C. BLOCKING OR 1" CLIPS SHOULD BE USED IF JOISTS DO NOT REMAIN FLAT UNDER THE WEIGHT OF WORKMEN.
 - D. USE SHIMS TO KEEP ENTIRE SUBSTRATE EVEN UNLESS SUBSTRATE WILL RESULT IN "OIL-CANNING" IN PANELS. SUBSTRATE SHOULD BE LEVEL TO 1/4" IN 20'-0".
 - E. ALL CUTS AT PENETRATIONS SHOULD BE TIGHT, WITHOUT GAPS.
 - F. USE WOOD-RAISED CRACKERS AT LARGE PENETRATIONS.
 - G. MAKE SURE SUBSTRATE JOINTS ARE TIGHT AT ALL HIPS, VALLEYS, AND RIDGES.
- FASCIA/RAKE INSPECTION:
 - A. STRIKE A LINE THE FULL LENGTH OF THE FASCIA OR RAKE. IF NOT STRAIGHT, CORRECT WITH SHIMS.
 - B. MAKE SURE FASCIA/RAKE IS FLUSH WITH SHEATHING.
- FELT UNDERLAYMENT, A MINIMUM SINGLE LAYER OF # 30 FELT UNDERLAYMENT (OR FELT MUST BE APPLIED OVER SOLID SHEATHING AS SHOWN IN THE BERBRIDGE MANUFACTURING COMPANY TYPICAL FELLING DETAILS). THE USE OF ADDITIONAL LAYERS OF # 30 FELT IS RECOMMENDED ON LOW-SLOPED ROOFS. AT ALL VALLEY CONDITIONS, AT ROOF PENETRATIONS, AND CERTAIN OTHER FLASHING CONDITIONS AS DERIVED IN THE ROOF PANEL TYPICAL DETAILS, THE UNDERLAYMENT MUST COVER THE ENTIRE ROOF DECKED SURFACE.
 1. FELLING INSTALLATION:
 - A. DO NOT USE RED ROBIN PAPER UNDER METAL ROOFING PANELS.
 - B. SLEEP ROOF AREA CLEAN.
 - C. USE FLAT HEAD GALVANIZED ROOFING NAILS 6 X 1 1/4" LONG WITH BERBRIDGE GALVANIZED FELT CAPS.
 - D. INSTALL VALLEY FELT FIRST.
 - E. INSTALL FELT PARALLEL TO EAVE (2 LAYERS REQUIRED AT EAVE) STARTING AT EAVE AND USING MINIMUM 6" LAPS. USE TWO LAYERS OF FELT ON ENTIRE ROOF DECK. ROOF SLOPE 3 ON 12 OR LESS: 2 LAYERS OF FELT REQUIRED AT EAVE REGARDLESS OF SLOPE.
- FLASHING, IF BERBRIDGE MANUFACTURING COMPANY'S IS TO SUPPLY FLASHINGS, ALL FLASHINGS WILL BE FABRICATED IN 10'-0" LENGTHS WITH SQUARE END CUTS ONLY. THE PURCHASER MUST PROVIDE ALL DIMENSIONS AND DEGREE OF ANGLES.
 5. FLASHING INSTALLATION:
 - A. REMOVE STRIPPABLE PLASTIC FILM FROM EACH PANEL, PRIOR TO INSTALLATION.
 - B. START PANEL INSTALLATION AT AN GABLE END OF THE ROOF WORKING TOWARD THE OTHER GABLE END. MAKE SURE PANELS ARE PERPENDICULAR TO THE EAVE. ALL PANEL AREAS WHERE THE PANELS ARE INSTALLED SO THAT DRAINAGE HAS FREE FLOW AND IS NOT OBSTRUCTED BY PANEL SEAMS.
 - C. BEGIN BY INSTALLING J-CLIP AND/OR DRIP FLASHING AT GABLE THEN PLACING FIRST CEE-LOCK CONTINUOUS LENGTH PANEL.
 - D. INSTALL CEE-LOCK CLIPS OR CONTINUOUS CEE-RIB AS PER BERBRIDGE TYPICAL DETAILS AND CEE-LOCK CONTINUOUS RIB-CLIP INSTALLATION NOTES.
 - E. IF OPTIONAL VINYL WEATHERSEAL (US PATENT 4,641,475) IS TO BE USED, THIS WILL BE EITHER FACTORY INSTALLED OR INSTALLED IN THE FIELD AS THE CEE-LOCK PANEL EXITS FROM THE CL-21 PORTABLE ROLL FORMER.
 - F. INSTALL PANELS BY PLACING THE FEMALE LEG OVER THE MALE LEG AND CONTINUOUS CEE-RIB OR CLIP AND SNAPPING THE INTEGRAL SEAM INTO PLACE WITH HAND PRESSURE. DO NOT USE EXCESSIVE FORCE. FOOT PRESSURE OR OTHER TOOLS SUCH AS VALLEY'S AS THIS WILL SCRATCH OR DENT THE PANEL RIB AND CAUSE DEFORMATION TO THE VINYL WEATHERSEAL.
 - G. EACH PANEL IS TO BE KEPT TIGHT AGAINST THE LEG OF THE ADJOINING PANEL. NEVER PERMIT A GAP BETWEEN VERTICAL LEGS.
 - H. KEEP PANELS ALIGNED SO THAT SEAM'S MATCH AT HIPS, VALLEYS AND WHERE VERTICAL PANELS ADD ON ROOF PANELS. DO NOT INSTALL LONG CONTINUOUS RIMS OVER VERTICAL PANELS. IN ONE ELEVATION AND TIED INTO WALL LIKE NUMBER OF PANELS ON THE OTHER ELEVATION WHEN YOU INSTALL PANELS IN THIS MANNER YOU WILL BE ABLE TO MAKE ANY ADJUSTMENTS REQUIRED TO INSURE SEAM MATCHING.
 - I. COPPER-COTE CHAMPAGNE LEAD-COTE AND PRELUATHER GALVALUME PANEL INSTALLATION: NOTE THE SERIES OF ARROWS POINTING ON THE UNDERSIDE OF THE PANEL. ALL PANELS MUST BE INSTALLED IN CONSEQUENT PLANNED MEANING THAT THE ARROWS ON EVERY PANEL ARE ALL POINTING IN THE SAME DIRECTION. IF A PANEL IS REVERSED (ARROWS POINTING OPPOSITE OF THOSE ON OTHER PANELS) IF IT WILL APPEAR REVERSED TO THE EYE. A DENTED SURFACE TO THE GABLE END OF THE PANELS IN THE FINISH, METALLO FINISHES ARE MATCH - LOT FINISHES. DO NOT MIX LOTS.



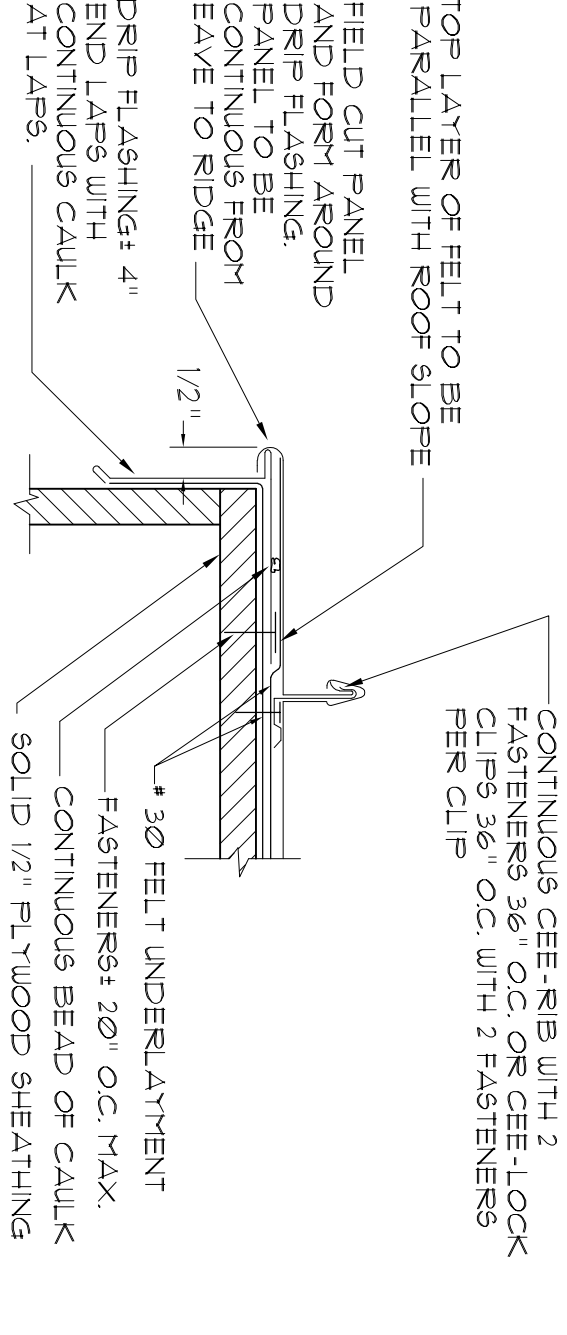
PANEL DETAIL

SCALE: NONE



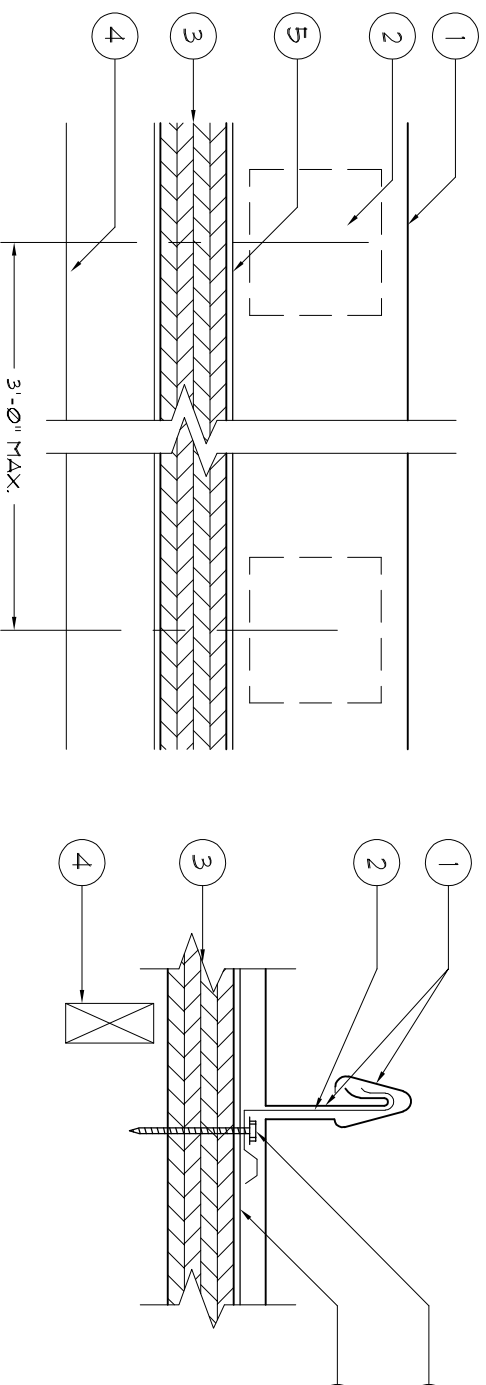
RIDGE/HIP DETAIL

SCALE: NONE



GABLE DETAIL / PANEL TURNDOWN

SCALE: NONE



- CEE-LOCK PANEL, NO 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) THICKNESS COATED STEEL, 16 1/2 IN WIDE, 1 1/2 IN HIGH PANEL (NON-STRUCTURAL VINYL WEATHER SEAL OPTIONAL IN SEAM), CONTINUOUS OVER TWO OR MORE SPANS WITHOUT LAPS.
- CEE-CLIP (PANEL CLIP) - ONE PIECE ASSEMBLY FABRICATED FROM NO. 24 MSG (MIN. YIELD STRENGTH 40,000 PSI) COATED STEEL, CEE-CLIP LOCATED AT EACH PANEL SIDE LAPS BEING PLACED AT 3'-0" O.C. MAXIMUM.
- DECK - 5/8" APA 40720 PLYWOOD.
- JOIST - 2" X 4" AT 2'-0" O.C. MAXIMUM WITH #2 X 2" PAN HEAD WOOD SCREW AT 12" O.C. MAX. AT PLYWOOD TO JOIST CONNECTION AND AT PLYWOOD ENDS.
- # 30 FELT UNDERLAYMENT.
- FASTENERS (SCREWS) - FOR ATTACHING (CEE-CLIP) (ITEM TWO) TO DECK USE NO. 10 PANCAKE HEAD TEK'S STEEL SCREWS, TWO FASTENER PER (CEE-CLIP).

CLIP FASTENER DETAIL

SCALE: NONE

REVISION:

DRAWN:
DJR

CUSTOM DESIGNED HOME FOR:
Mr. Randy McRae
COLUMBIA COUNTY, FLORIDA

Electrical Plan

**DAVID J. ROYAL**
ARCHITECTURAL DESIGNER
Lake City, Florida • 386-752-4610

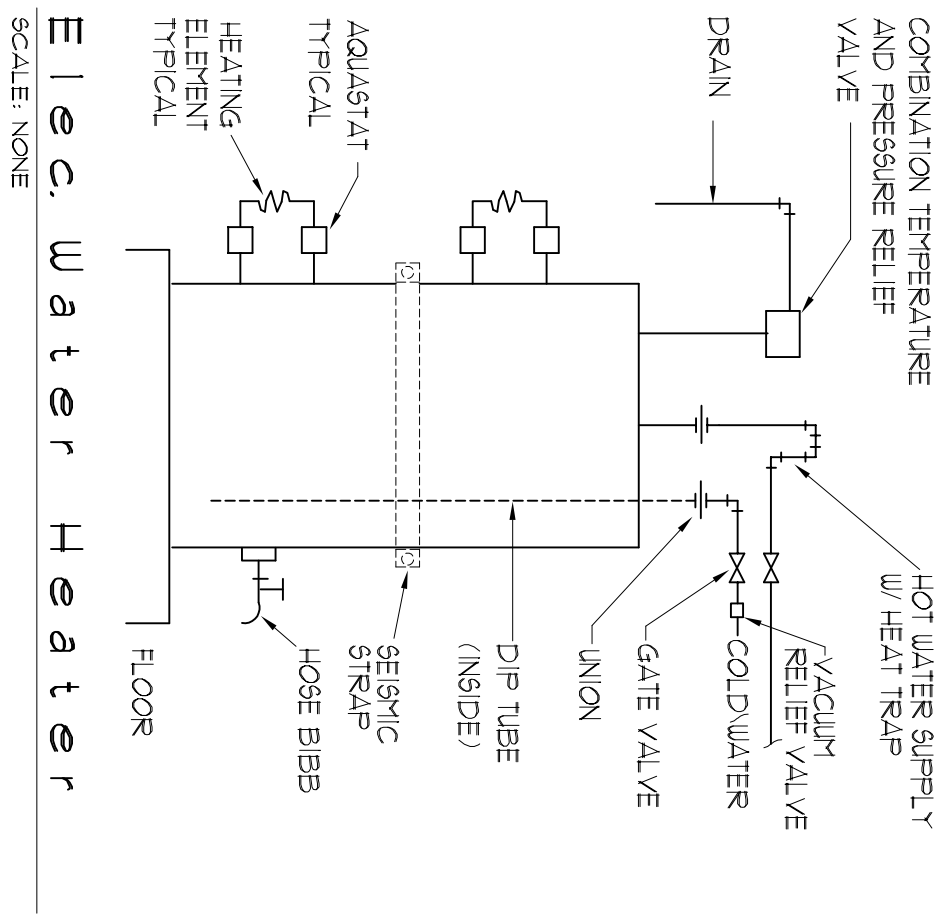
**NCE**
NATIONAL
CENTRAL
ELECTRICAL
INSTITUTE

DATE:
22JAN2019

COMP:

SHEET:
A.13
13 OF 14

NOTE: EXTERIOR FLOODLIGHTS TO BE SPECIFIED AND LOCATED BY OWNER AND INSTALLED PER MANUFACTURERS RECOMMENDATIONS



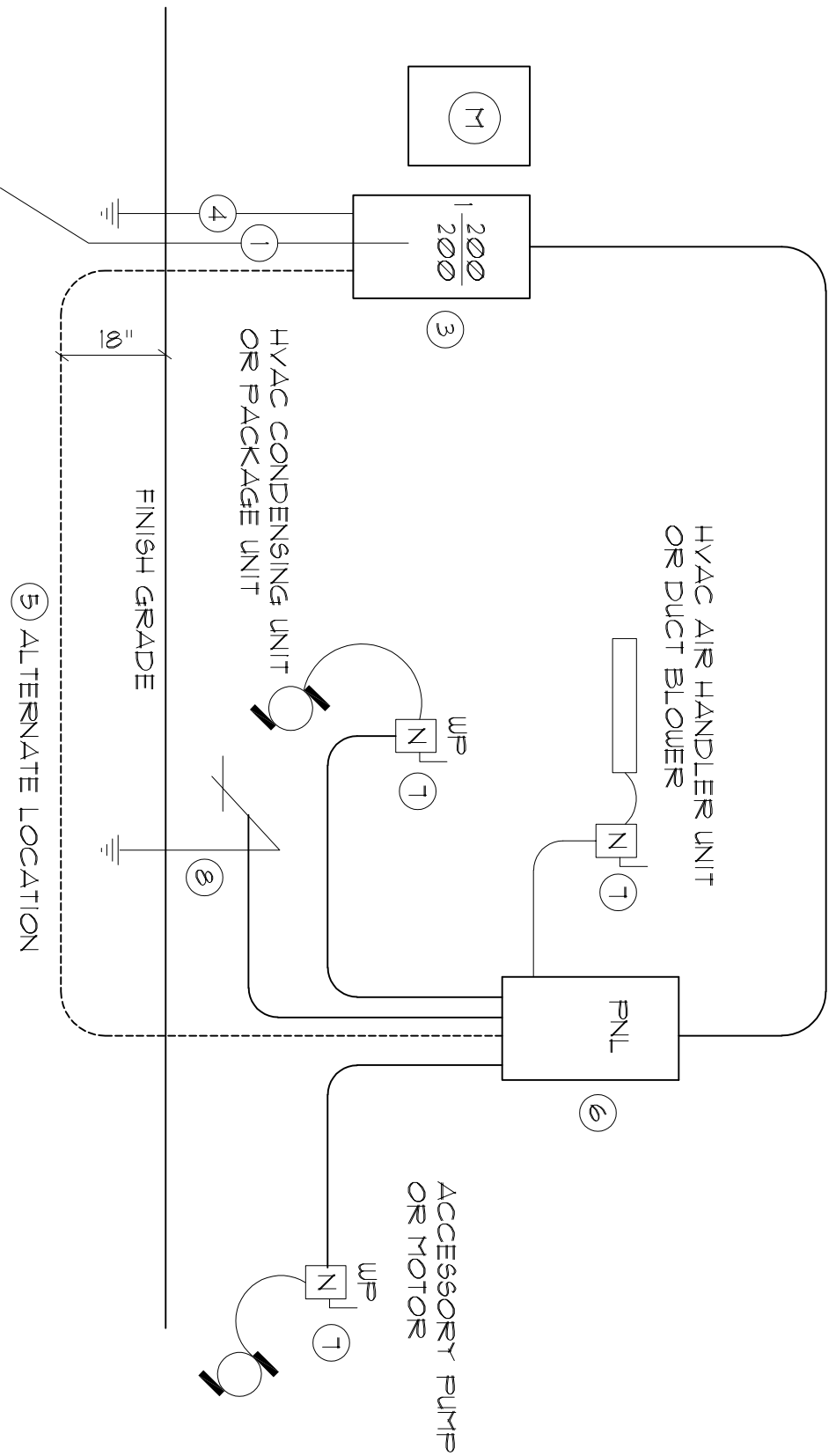
Elec. Water Heater
SCALE: NONE

NOTE: SMOKE DETECTORS SHALL BE MOUNTED NOT LESS THAN 90" ABOVE FINISHED FLOOR AND SHALL BE THE IONIZATION TYPE, INTERLOCKED TOGETHER, POWERED FROM HOUSE PANEL W/BATTERY BACKUP

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

Electrical Symbols

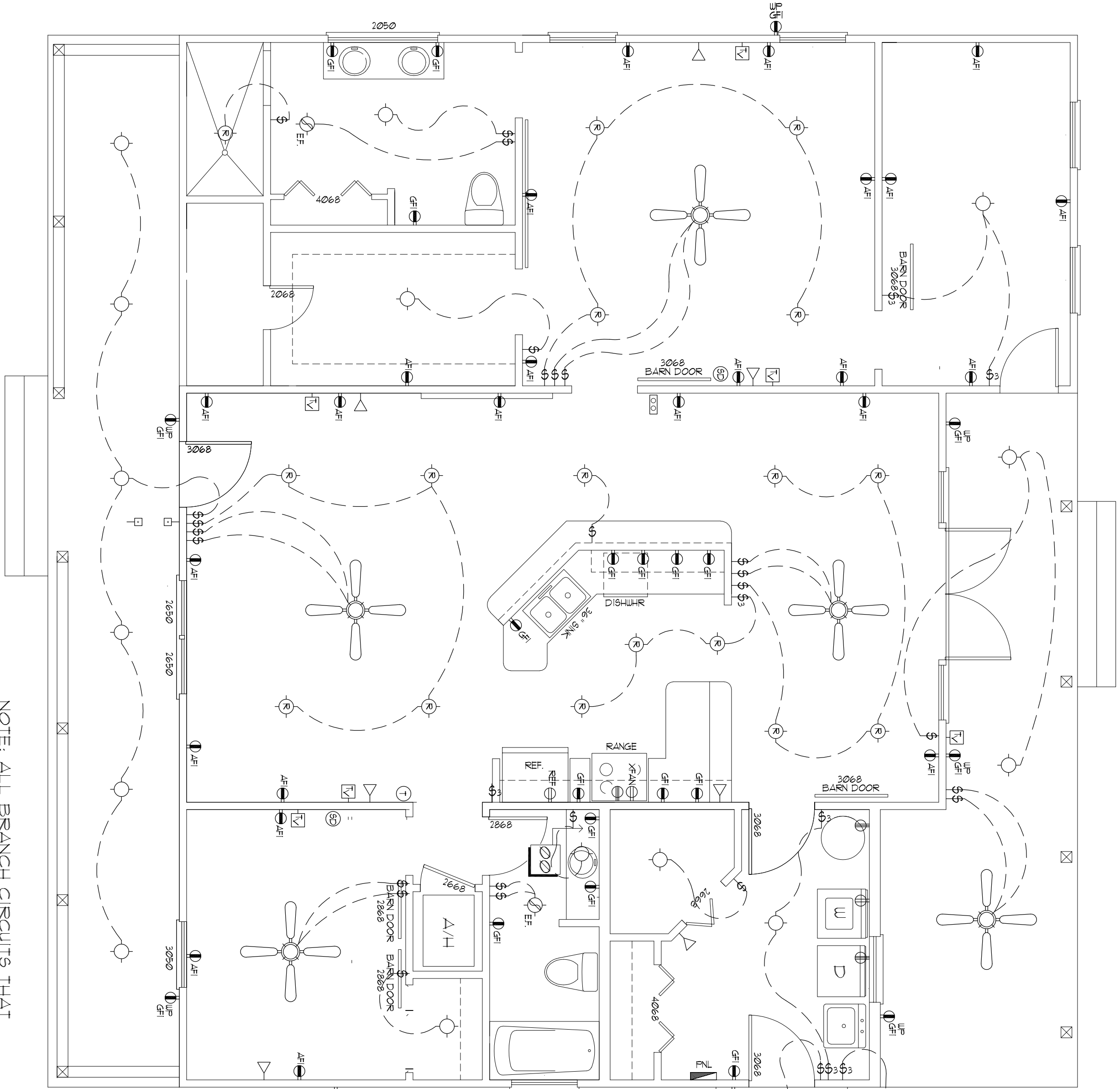
- \$ SPST WALL SWITCH
- \$ DPDT WALL SWITCH (3-WAY)
- \$ DUPLEX WALL RECEPTACLE
- \$ DUPLEX WALL RECEPT., BELOW COUNTER
- \$ 240V OUTLET
- \$ ARC FAULT INTERRUPTER DUPLEX RECEPT.
- \$ GND FAULT INTERRUPTER DUPLEX RECEPT.
- \$ WEATHER PROOF GFI DUPLEX RECEPT.
- \$ ARC FAULT INTERRUPTER DUPLEX RECEPT.
- \$ DUPLEX WALL RECEPTACLE, 1/2 SWITCHED MOTOR
- \$ ELECTRICAL PANEL
- \$ EXHAUST FAN / LIGHT
- \$ DEL. LAMP INC. FLOOD LIGHT
- \$ 2 TUBE FLU. PRESYRATIC WRAP SURFACE FIXTURE
- \$ INC. LIGHT FIXTURE
- \$ SMOKE DETECTOR, 120V
- \$ CHIME
- \$ MOMENTARY PUSHBUTTON SWITCH, LIGHTED
- \$ SWITCH/FIXTURE WIRING
- \$ CONTROL WIRE - LOW VOLTAGE
- \$ NON-FUSED DISC SWITCH
- \$ TELEPHONE
- \$ TELEVISION OUTLET
- \$ HVAC THERMOSTAT, @ 60" AFF
- \$ RECESSED LIGHT FIXTURE
- \$ RECESSED LIGHT FIXTURE, WATERPROOF
- \$ CLG. MTD. SWITCHED RECEPT. FOR CHRISTMAS LIGHTS



- SERVICE FEEDER ENTRANCE CONDUCTOR, 2 1/2" RIGID CONDUIT MIN. 18" DEEP, UNCONTINUOUS GROUND BONDING CONDUCTOR SERVICE ENTRANCE CONDUCTORS SHALL NOT BE SPLICED EXCEPT THAT BOLTED CONNECTIONS AT THE METER DISCONNECTING DEVICES AND PANEL SHALL BE ALLOWED.
- METER ENCLOSURE, WEATHERPROOF, UL LISTED
- MAIN DISCONNECT SWITCH FUSED OR MAIN BRKR. WEATHERPROOF, UL LISTED.
- SERVICE ENTRANCE GROUND, 3/8" IRON/STEEL ROD X 8'-0" LONG AND/OR CONCRETE ENCASED FOUNDATION STEEL REBAR X 20'-0" LONG GROUNDING CONDUCTOR SHALL BOUND EACH PIECE OF SERVICE/ENTRANCE EQUIPMENT, AND SHALL BE SIZED PER ITEM 5 BELOW.
- 100 AMPERE SERVICE, 3-7/8" - USE - CU 1-1/4" - CU GND, 2" CONDUIT.
- HOUSE PANEL, (FNU), UL LISTED, SIZED PER SCHEDULE.
- EQUIPMENT DISCONNECT SWITCH, NON-FUSED, IN WEATHERPROOF ENCLOSURE, SIZED ACCORDING TO PANEL SCHEDULE LOADS.
- PROVIDE GROUND BOND WIRE TO METAL PIPING, SIZED IN ACCORDANCE WITH THE SERVICE GROUND CONDUCTOR.

Electrical Riser : 200A

SCALE: NONE



NOTE: ALL BRANCH CIRCUITS THAT SUPPLY 125-VOLT, SINGLE-PHASE 15- AND 20- AMPERE OUTLETS INSTALLED IN DUELLING UNIT LIVING AREAS SHALL BE PROTECTED BY AN ARC-FAULT CIRCUIT INTERRUPTER

Electrical PLAN

Electrical Comp.

General Lighting/Receptacles @ 3w/sf = 8481.00w
Washer Circuit = 1500.00w
Dishwasher Circuit = 1500.00w
5m. Appliance Circuits (3 @ 1500w) = 4500.00w

Sub-Total = 11591.00w
18% 3CU @ 100% = 3000.00w
Bal. of KW @ 35% = 4543.00w

Fixed Appliances:
Refrigerator = 1200.00w
Freezer = 1200.00w
Cig. Fans (3 @ 200w) = 600.00w
Irrigation Pump (future) = 1000.00w
Washer (future) = 1500.00w
EWH = 4500.00w
EWH = 2400.00w
Squares (6 @ 400w) = 2400.00w

Sub-Total = 13500.00w
Load @ 75% D.F. = 10125.00w

100% Demand Factor Loads:
Dryer = 5000.00w
Range = 6000.00w
HVAC System (3.0T Heat Pump) = 6000.00w
HVAC System Air Handler = 800.00w

Total Demand Load: 37168.00w

FEEDER SIZE: 37168.00w / 240V = 157.00 amperes
USE: 3 7/8" THW w/ 1" CU GND / 2 1/2" C.

Electrical Design Data

Panel Schedule

PANEL 1, 200A - MLO - 120/240V - 1" - 4 WIRE
40 SLOT - FLUSH MOUNT

CIR. NO.	LOCATION	TRIP	POLES	WIRE SIZE	LOAD
1-9	LIGHTING/RECEPT.	15A/1P	1A/N	14N	1367.50w
9	DISHWASHER	15A/1P	1A/N	14N	1500.00w
10-12	5MT. KITCHEN APPLIANCES	20A/1P	1A/N	14N	4500.00w
13-14	CEILING FANS	15A/1P	1A/N	14N	1200.00w
15-17	FILL REGULATION PUMP	20A/1P	1A/N	14N	1200.00w
18	REFRIGERATOR	15A/1P	1A/N	14N	1200.00w
18-21	EWH 5.0 GAL. RANGE	30A/2P	1A/N	14N	4500.00w
20-22	EWH 5.0 GAL. RANGE	30A/2P	1A/N	14N	4500.00w
23-24	WATER WELLS	30A/2P	1A/N	14N	1200.00w
25-26	DRYER	30A/2P	1A/N	14N	5000.00w
27-28	HVAC CU	50A/2P	1A/N	14N	6400.00w
29-30	HVAC AHU	20A/1P	1A/N	14N	800.00w
31-32	FREEZER	15A/1P	1A/N	14N	1200.00w
33-34	FREEZER	15A/1P	1A/N	14N	1200.00w
33-40	SPACES	30A/2P	1A/N	14N	3200.00w

TOTAL CONNECTED LOAD: 56423.50w

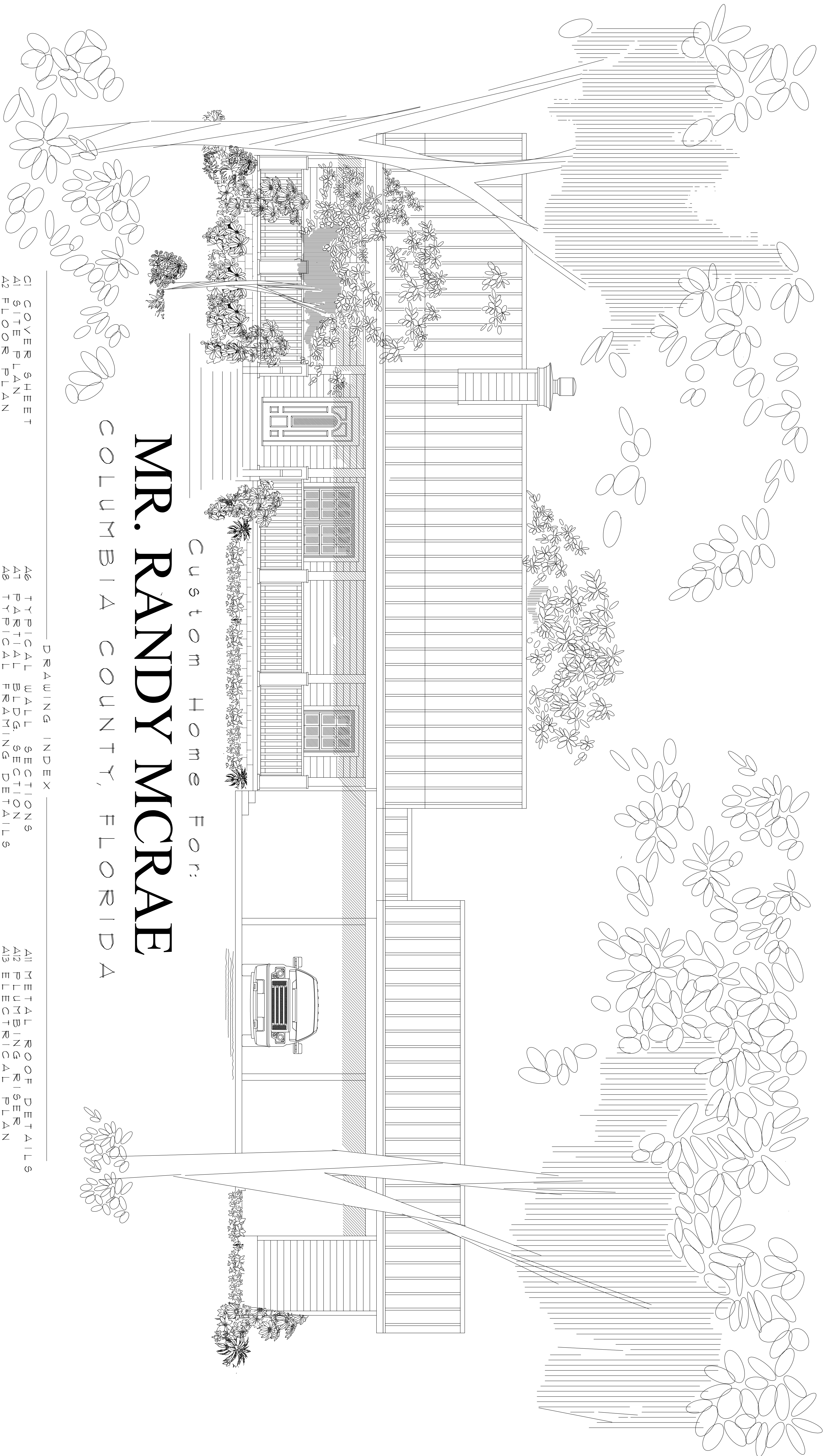
NOTE: TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNER'S DIRECTIONS, AND IN ACCORDANCE W/APPLICABLE SECTIONS OF NEC - LATEST EDITION.

TYPICAL PANEL SCHEDULE:

ELECTRICIAN TO PROVIDE A FINAL PANEL SCHEDULE BASED ON THE AS-BUILT CONDITIONS & CONNECTED DEVICES.

TYPICAL LOAD COMPUTATIONS:

ELECTRICIAN TO CALCULATE ACTUAL LOAD FROM AS-BUILT CONDITIONS & CONNECTED DEVICES



Custom Home For:
MR. RANDY MCCRAE
COLUMBIA COUNTY, FLORIDA

DRAWING INDEX

CI COVER SHEET
A1 SITE PLAN
A2 FLOOR PLAN
A3 DIMENSION PLAN
A4 EXTERIOR ELEVATIONS
A5 FOUNDATION PLAN

A6 TYPICAL WALL SECTION
A7 PARTIAL BLDG. SECTION
A8 TYPICAL FRAMING DETAILS
A9 DOOR & WINDOW DETAILS
A10 ROOF FRAMING PLAN

A11 METAL ROOF DETAILS
A12 PLUMBING RISER
A13 ELECTRICAL PLAN
A14 GENERAL NOTES