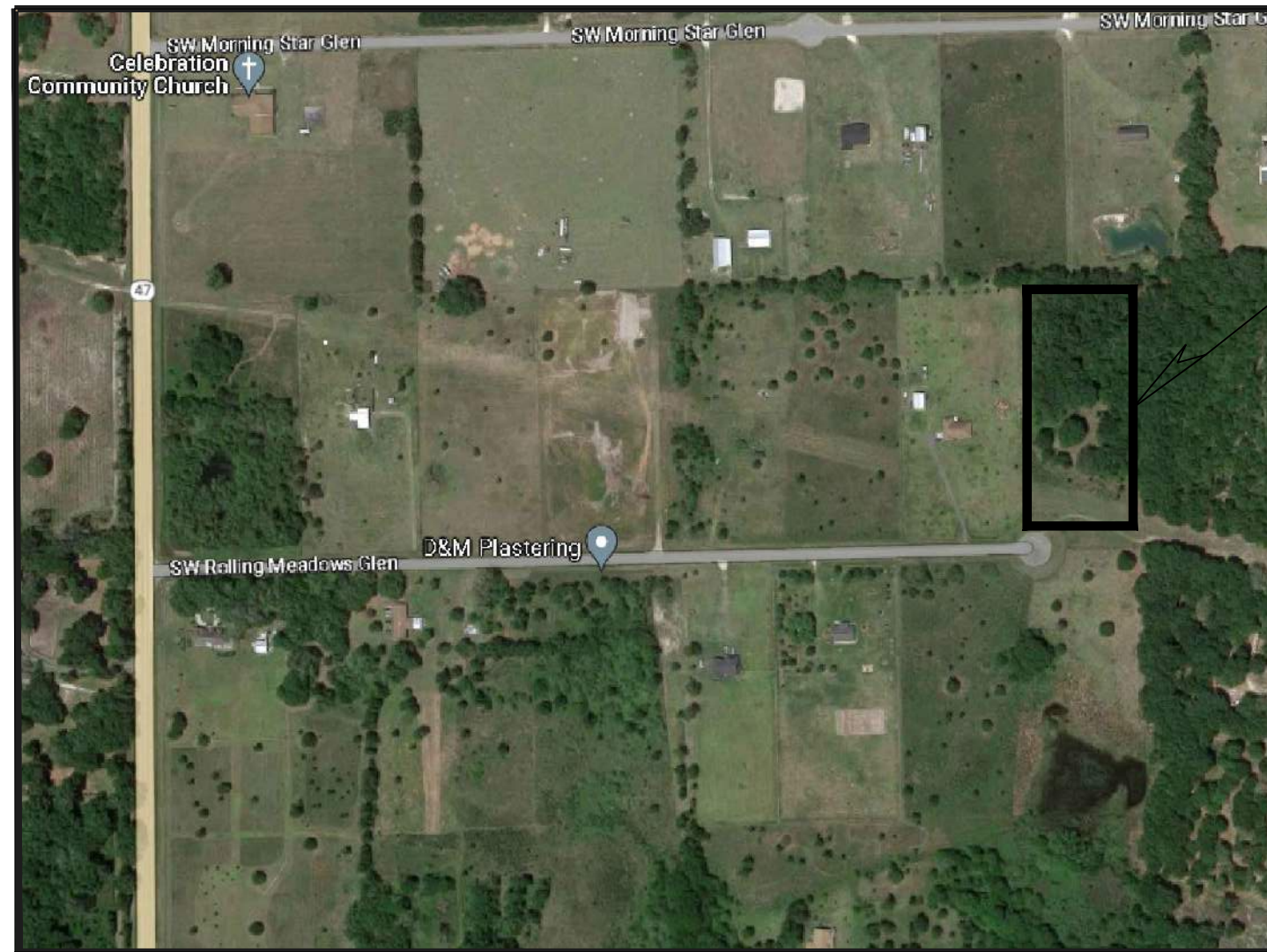


SITE AND PERMITTING PLANS  
**VELO'S RESIDENTIAL**  
 COLUMBIA COUNTY FLORIDA  
 PREPARED FOR  
**ANDRES VELO & ILIANA VELO**

VICINITY MAP  
NTS

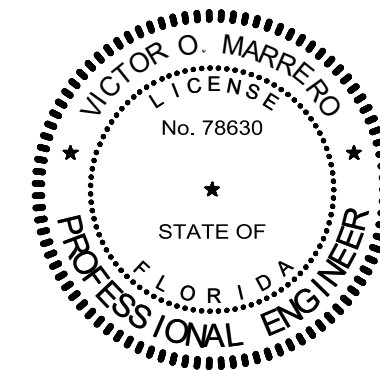


PROJECT SITE

**SHEET INDEX**

A-1	COVER SHEET
A-2	1st FLOOR PLAN
A-3	2nd FLOOR PLAN
A-4	FRONT ELEVATION
A-5	LEFT ELEVATION
A-6	REAR ELEVATION
A-7	RIGHT ELEVATION
A-8	TYP WALL SECTION 1ST FLOOR
A-9	TYP WALL SECTION 2ND FLOOR
A-10	DESIGN CRITERIA
A-11	NOTES AND DETEALS
A-12	ROOF PLAN
A-13	FUNDATION AND PLUMBING
A-14	FOUNDATION DETAILS
A-15	1ST FLOOR ELECTRICAL PLAN
A-16	2ND FLOOR ELECTRICAL PLAN

AFFINE ENGINEERING  
 AND SURVEYING, INC.  
 CERTIFICATE OF  
 AUTHORIZATION No. 29140



Digitally signed  
 by Victor O  
 Marrero  
 Date: 2024.03.15  
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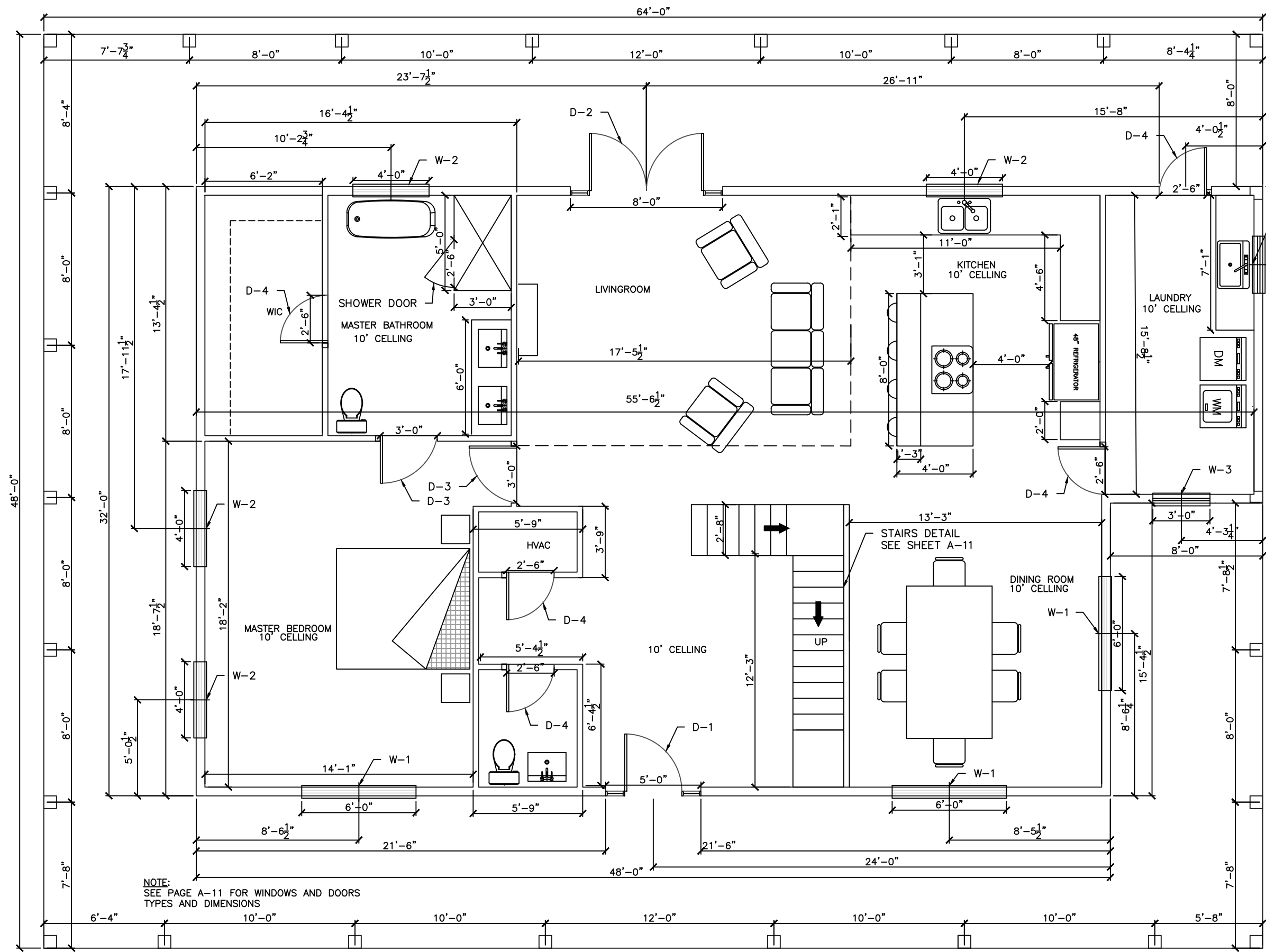
VICTOR O. MARRERO  
 FLORIDA P.E. # 78630



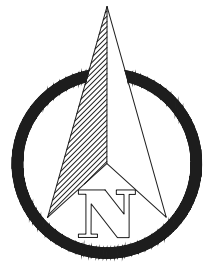
AFFINE ENGINEERING AND SURVEYING, INC  
 CIVIL ENGINEERS SURVEYORS

TELEPHONE NUMBER 407-421-5534  
 10354 JEPSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No 29140

AFFINE ENGINEERING  
 AND SURVEYING, INC.  
 CERTIFICATE OF  
 AUTHORIZATION No. 29140  
 VICTOR O. MARRERO  
 FLORIDA P.E. # 78630  
 DATE 03/14/2024

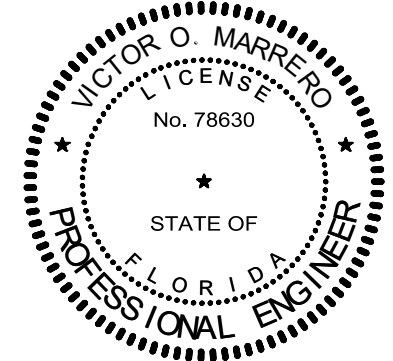


NOTE:  
SEE PAGE A-11 FOR WINDOWS AND DOORS  
TYPES AND DIMENSIONS



SQUARE FOOTAGE	
LIVING AREA	1450 SF
WALK AROUND PORCH	1143 SF
LAUNDRY	96 SF
TOTAL	2692 SF

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VICTOR O. MARRERO  
FLORIDA P.E. # 78630

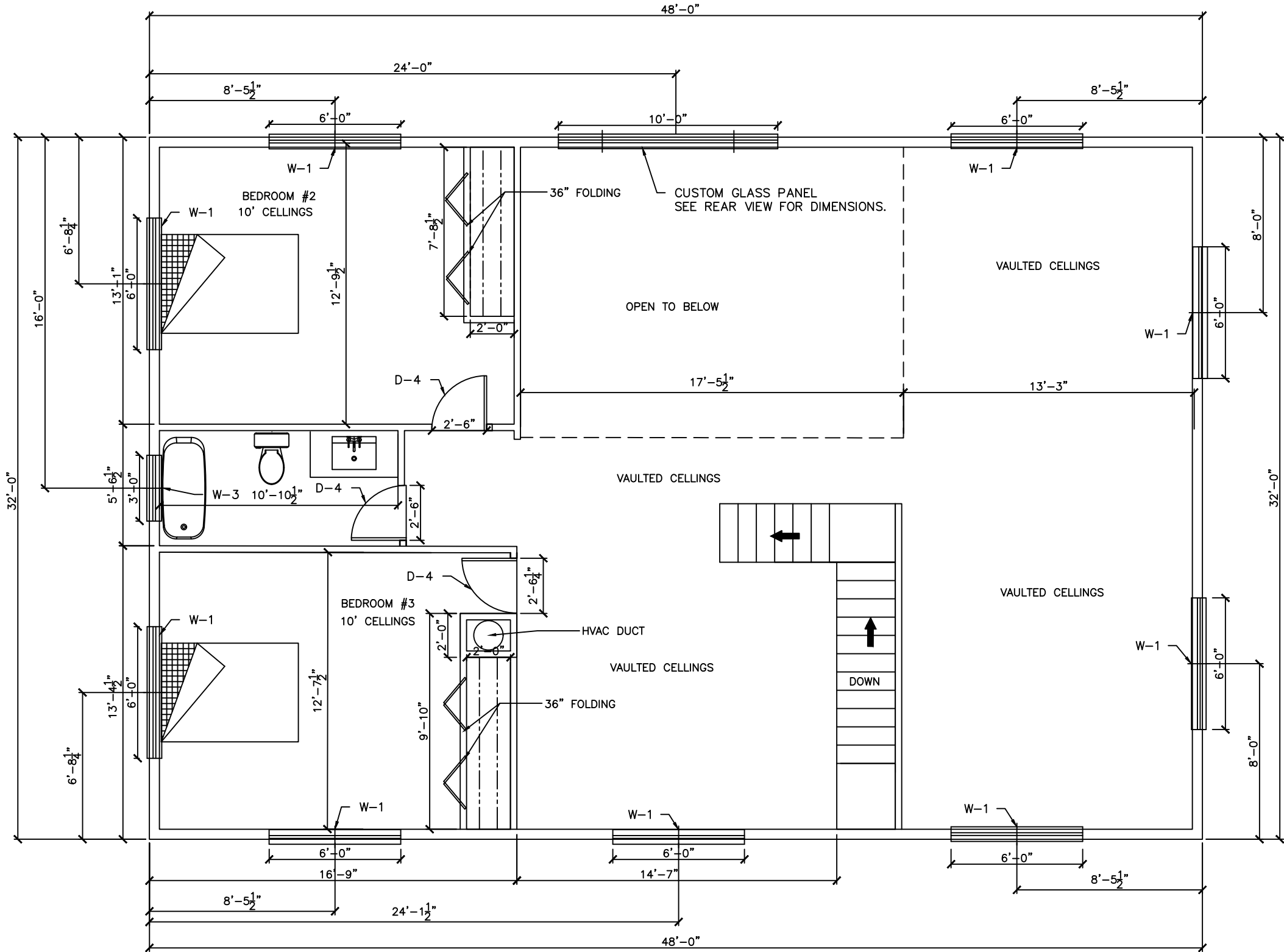
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Marrero  
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DRAWN BY  
ERNESTO H. PEREZ  
CHECKED BY  
VICTOR O. MARRERO  
DATE  
3/15/24  
SCALE  
3/16"=1'  
JOB #  
021432VELO

AFFINE ENGINEERING AND SURVEYING, INC  
AFFINE  
CIVIL ENGINEERS  
SURVEYORS  
TELEPHONE NUMBER 407-421-5534  
10354 JEPSON STREET, ORLANDO, FLORIDA 32825  
CERTIFICATE OF AUTHORIZATION: No. 29140

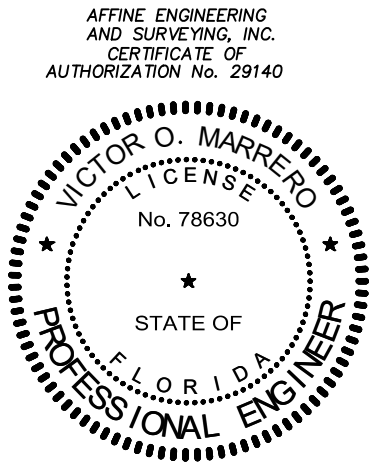


DRAWING  
18-004  
SHEET  
A-2  
PREPARED FOR:  
ANDRES VELO  
DATE 03/15/2024  
1st FLOOR PLAN



NOTE:  
SEE PAGE A-11 FOR WINDOWS AND DOORS  
TYPES AND DIMENSIONS

SQUARE FOOTAGE	
LIVING AREA	1183 SF
TOTAL	1183 SF



VICTOR O. MARRERO  
FLORIDA P.E. # 78630

Victor O. Marrero  
Digitally signed by Victor O. Marrero  
Date: 2024.03.16  
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DRAWING FOR: ANDRES VELO  
 SHEET: A-3  
 2nd FLOOR PLAN  
 AFFINE ENGINEERING AND SURVEYING, INC.  
 AFFINE CIVIL ENGINEERS  
 SURVEYORS  
 TELEPHONE NUMBER 407-421-5534  
 10354 WEPSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140  
 DRAWN BY: ERNESTO H. PEREZ  
 CHECKED BY: VICTOR O. MARRERO  
 DATE: 3/15/24  
 SCALE: 3/16"=1"  
 JOB #: 021423VELO

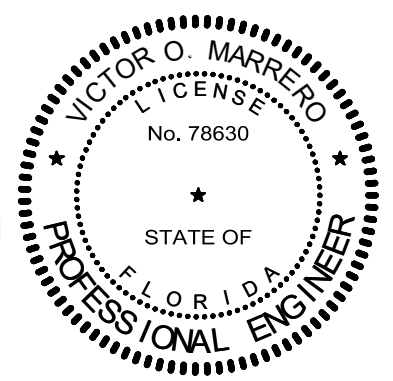


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 DATE 3/14/24  
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 JOB # 021423VELO

**AFFINE ENGINEERING AND SURVEYING, INC**  
 AFFINE CIVIL ENGINEERS  
 SURVEYORS  
 TELEPHONE NUMBER 407-421-5534  
 10354 JEFFERSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140

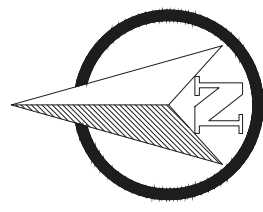
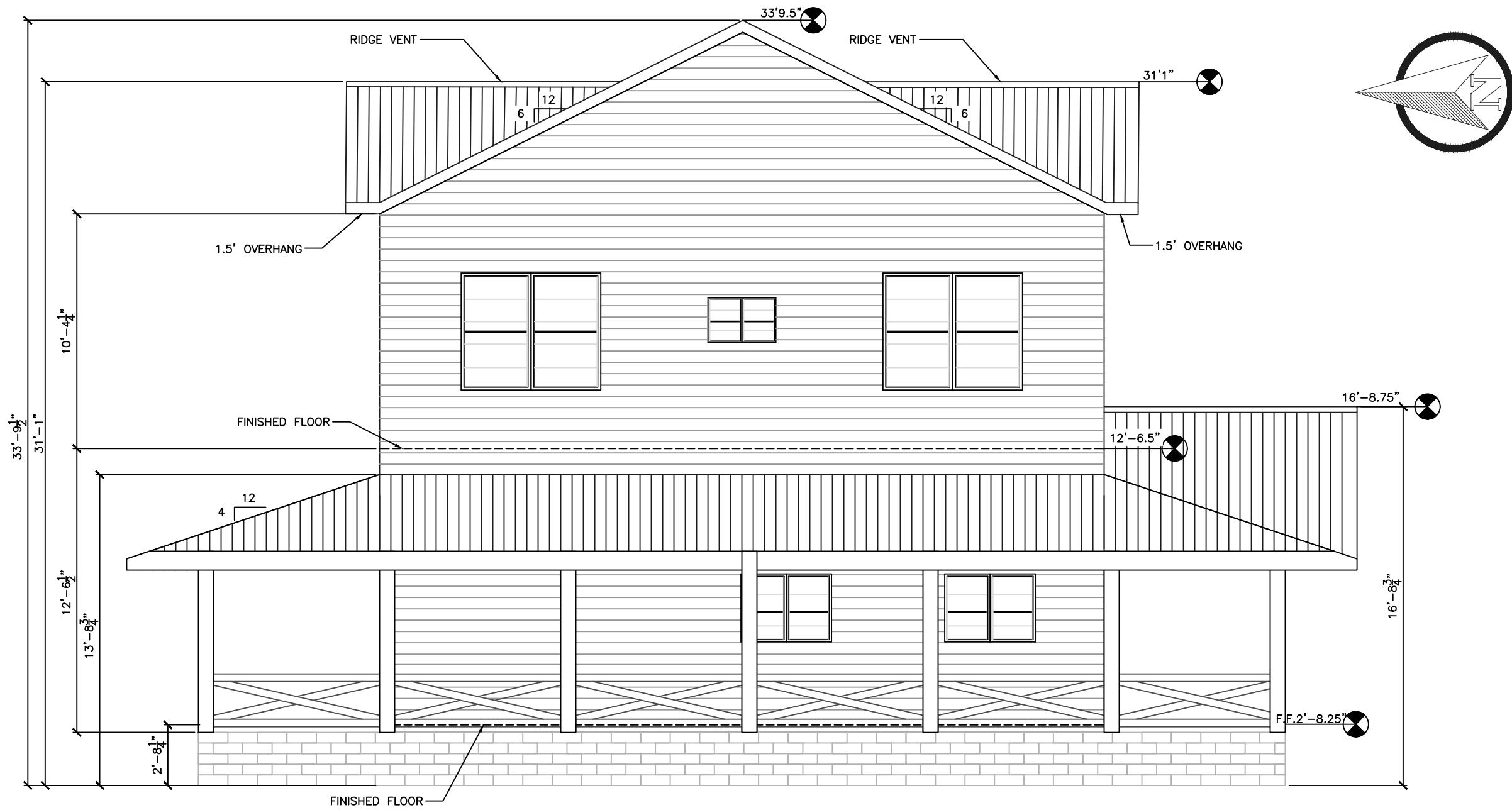
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 18-004 ANDRES VELO  
 SHEET A-4 FRONT ELEVATION  
 DATE 03/14/2024

AFFINE ENGINEERING  
 AND SURVEYING, INC.  
 CERTIFICATE OF  
 AUTHORIZATION No. 29140

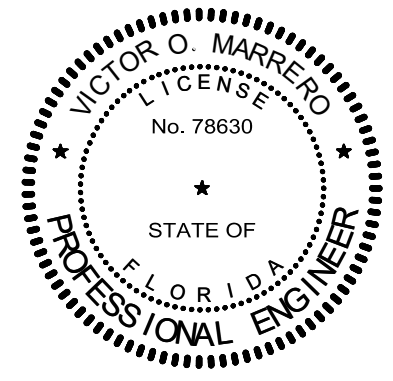


**Victor O Marrero**  
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VICTOR O. MARRERO  
 FLORIDA P.E. # 78630



AFFINE ENGINEERING  
AND SURVEYING, INC.  
CERTIFICATE OF  
AUTHORIZATION No. 29140



Digitally signed  
by Victor O  
Marrero  
Date:  
2024.03.15  
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VICTOR O. MARRERO  
FLORIDA P.E. # 78630

DRAWN BY  
ERNESTO H. PEREZ  
CHECKED BY  
VICTOR O. MARRERO  
DATE  
3/14/24  
SCALE  
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JOB #  
021433VELO

AFFINE ENGINEERING AND SURVEYING, INC.  
AFFINE CIVIL ENGINEERS  
SURVEYORS  
TELEPHONE NUMBER 407-421-5534  
10354 JEFFERSON STREET, ORLANDO, FLORIDA 32825  
CERTIFICATE OF AUTHORIZATION: No. 29140

VICTOR O. MARRERO  
FLORIDA P.E. # 78630

DRAWING  
18-004  
SHEET  
A-5

PREPARED FOR:  
ANDRES VELO  
LEFT ELEVATION

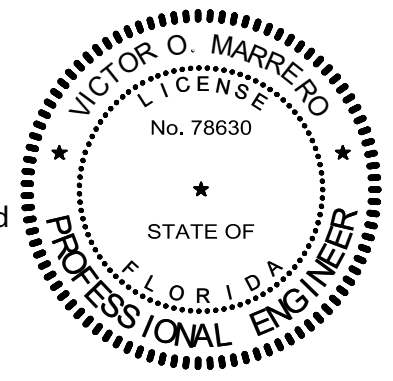


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 JOB #: 02143VELO

AFFINE ENGINEERING AND SURVEYING, INC.  
 SURVEYORS  
 TELEPHONE NUMBER 407-421-5534  
 10354 WEPSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION No. 29140



AFFINE ENGINEERING  
 AND SURVEYING, INC.  
 CERTIFICATE OF  
 AUTHORIZATION No. 29140

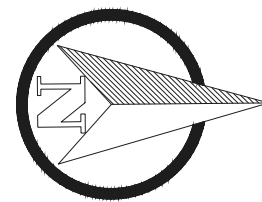
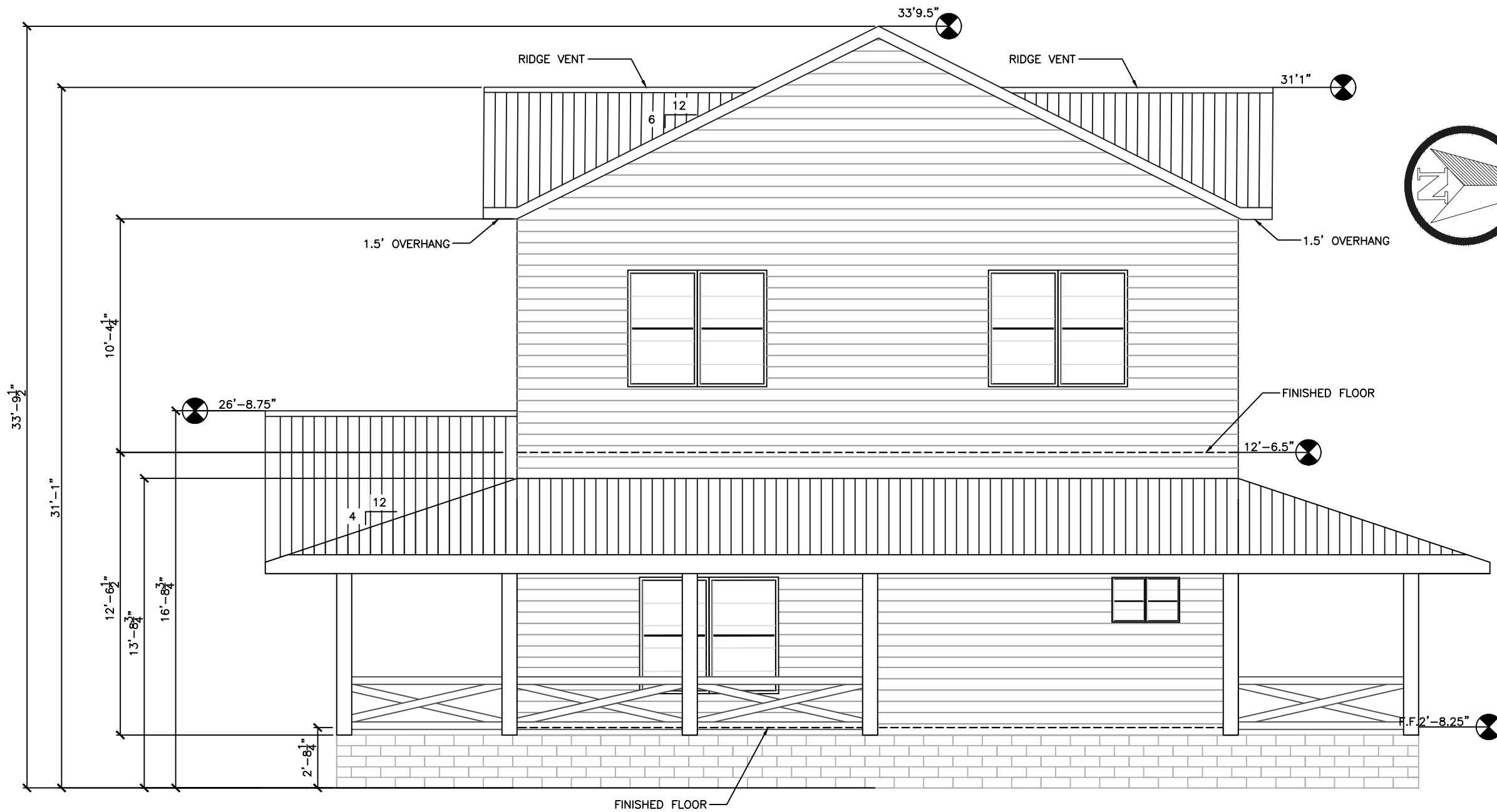


Victor O  
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VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

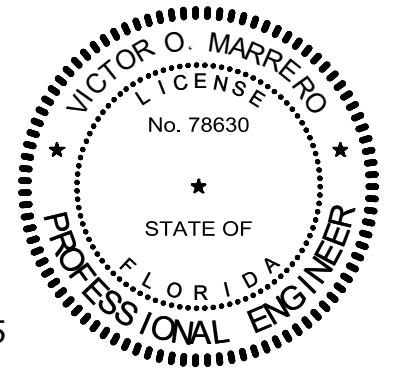
VICTOR O. MARRERO  
 FLORIDA P.E. # 78630  
 DATE 03/14/2024

DRAWING PREPARED FOR:  
 18-004 ANDRES VELO  
 SHEET SHEET  
 A-6 REAR ELEVATION



Digitally signed  
 by Victor O  
 Marrero  
 Date: 2024.03.15  
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AFFINE ENGINEERING  
 AND SURVEYING, INC.  
 CERTIFICATE OF  
 AUTHORIZATION No. 29140



VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

DATE 03/14/2024

DRAWING  
 18-004  
 SHEET  
 A-7

PREPARED FOR:  
 ANDRES VELO  
 RIGHT ELEVATION



AFFINE  
 ENGINEERS

AFFINE ENGINEERING AND SURVEYING, INC.  
 SURVEYORS  
 10344 JEFFERSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140

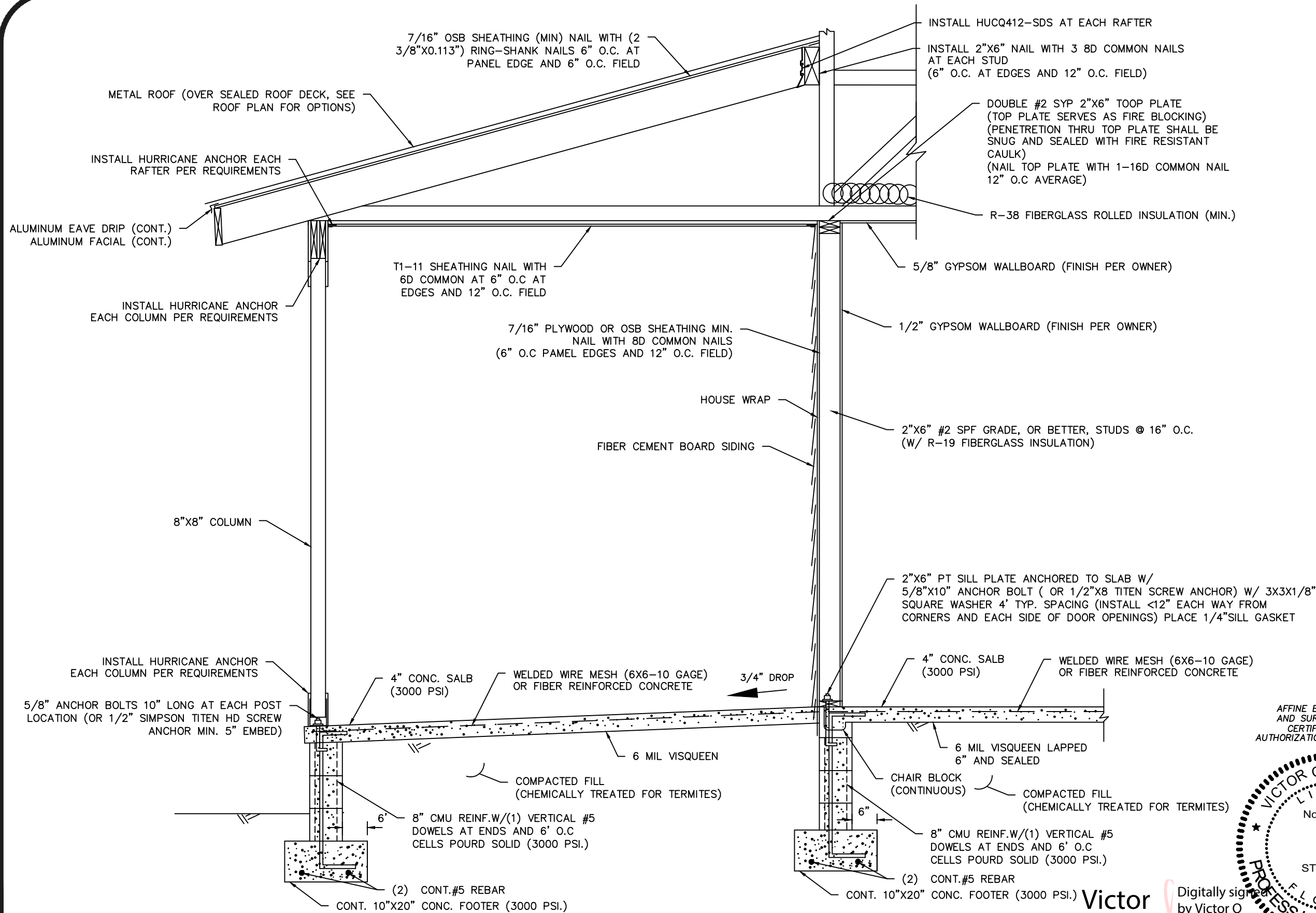
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 ERNESTO H. PEREZ

CHECKED BY  
 VICTOR O. MARRERO

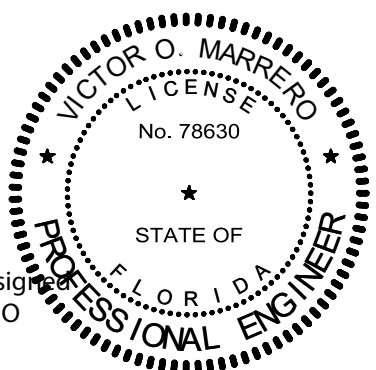
DATE  
 3/14/24

SCALE  
 3/16"=1'

JOB #  
 02143VELO



TYPICAL WALL SECTION 1ST FLOOR  
N.T.S



Victor O. Marrero  
Digitally signed by Victor O. Marrero  
Date: 2024.03.15 19:43:04 -04'00'

AFFINE ENGINEERING AND SURVEYING, INC.  
CERTIFICATE OF AUTHORIZATION No. 29140

VICTOR O. MARRERO  
FLORIDA P.E. # 78630

DRAWING PREPARED FOR: ANDRES VELO  
DATE: 03/14/2024

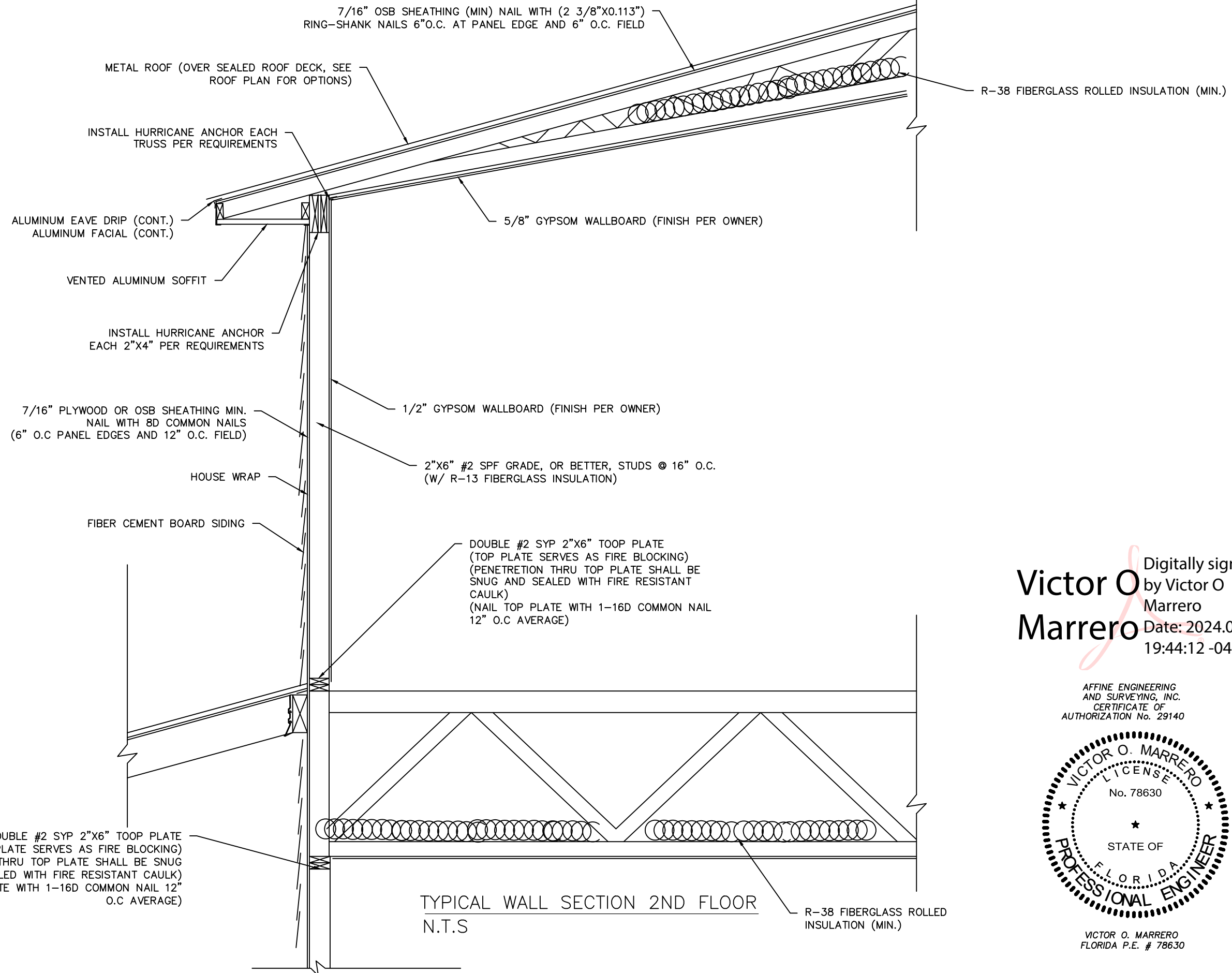
18-004 SHEET A-8

TYP WALL SECTION 1ST FLOOR



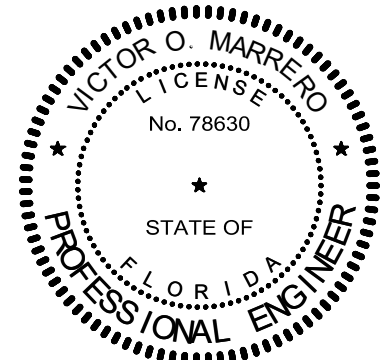
AFFINE ENGINEERING AND SURVEYING, INC.  
SURVEYORS  
CIVIL ENGINEERS  
TELEPHONE NUMBER 407-421-5534  
10354 WEPSON STREET, ORLANDO, FLORIDA 32825  
CERTIFICATE OF AUTHORIZATION: No. 29140

DRAWN BY: ERNESTO H. PEREZ  
CHECKED BY: VICTOR O. MARRERO  
DATE: 3/14/24  
SCALE:  
JOB # 021423VELO



Victor O Marrero  
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AFFINE ENGINEERING AND SURVEYING, INC.  
 CERTIFICATE OF AUTHORIZATION No. 29140



VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

DRAWING 18-004 SHEET A-9  
 PREPARED FOR: ANDRES VELO  
 TYP WALL SECTION 2ND FLOOR  
 AFFINE ENGINEERING AND SURVEYING, INC. CIVIL ENGINEERS  
 TELEPHONE NUMBER 407-421-5534  
 10354 JEFFERSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140  
 DRAWN BY: ERNESTO H. PEREZ  
 CHECKED BY: VICTOR O. MARRERO  
 DATE: 3/14/24  
 SCALE:  
 JOB #: 021423VELO

**DESIGN CRITERIA:**

- DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023).

**CODE REFERENCES:**

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, 2024 EDITION  
 APA PLYWOOD DESIGN SPECIFICATION  
 NATIONAL ELECTRICAL CODE, 2023

- ALL COMPONENTS, SYSTEMS AND EQUIPMENT NOT SPECIFICALLY COVERED BY THESE PLANS SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE CODE(S).

**PROJECT INFORMATION**

OCCUPANCY GROUP: R-3  
 MEAN ROOF HEIGHT: 33"-9.5"  
 ROOF CROSS SLOPE: 4:12  
 WALL HEIGHT: 9' ABOVE SLAB  
 ROOF SNOW LOAD: ZERO PSF  
 SEISMIC DESIGN CATEGORY: A  
 FLOOD DESIGN DATA: ZONE X  
 DANCE WITH ASCE MINIMUM DESIGN LOADS

- WIND LOADS IN ACCORDANCE WITH ASCE MINIMUM DESIGN LOAD FOR BUILDINGS AND OTHERS TRUCTURES (ASCE 7).

FLOOR AND ROOF LIVE LOADS:  
 UNINHABITABLE ATTICS: 20 PSF  
 HABITABLE ATTICS: 30 PSF  
 ALL OTHER ROOMS: 40 PSF  
 ROOFS: 20 PSF

**WIND DESIGN DATA**

ULTIMATE DESIGN WIND SPEED, VULT, (3-SECOND GUST): 130 MPH  
 NOMINAL DESIGN WIND SPEED, VASD 93 MPH  
 EXPOSURE CATERGORY: B  
 IMPORTANCE FACTOR: 1.0  
 RISK CATEGORY: II  
 ENCLOSURE CLASSIFICATION: ENCLOSED  
 INTERNAL PRESSURE COEFFICIENT: +/- 0.18

**COMPONENT AND CLADDING DESIGN PRESSURES (PSF)**

ROOF ZONE 1,2E: 9.60 - 9.80  
 ROOF ZONE 2N: 9.60 - 25.25  
 ROOF ZONE 2R: 9.60 - 25.25  
 ROOF ZONE 3E: 9.60 - 25.25  
 ROOF ZONE 3R: 9.60 - 28.55  
 WALL ZONE 4: 14.50 - 15.90  
 WALL ZONE 5: 14.50 - 17.69

**STRUCTURAL DESIGN CRITERIA**

LIVE LOADS  
 ROOF: 20 PSF  
 RESIDENTIAL FLOOR: 40 PSF  
 WIND LOADS (BASED ON ASCE 7-16)  
 VELOCITY: 130 MPH, USE FACTOR 1.0

CONCRETE STRENGTH @ 28 DAYS: 3000 PSI

**REINFORCING**

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185  
 ALL REINFORCING BARS ASTM A615-40 40,000PSI  
 ALL STIRRUPS AND TIES ASTM A615-40 40,000PS

CONCRETE MASONRY UNITS:  
 ASTM C90-99B, STANDARD WEIGHT UNITS, FM=1500 PSI  
 MORTOR TYPE "S" 1800 PSI  
 CONCRETE GROUT 3000 PSI

**STRUCTURAL STEEL:**

ALL STRUCTURAL AND MISCELLANEOUS STEEL A36 36,000 PSI, U.N.O.  
 ALL BOLTS CAST IN CONCRETE: ASTM A36 OR ASTM A-307

**WOOD FRAMING:**

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  
 WALL SHEATING: PLYWOOD C-C/C-D, EXTERIOR OR OSB

**WOOD ROOF TRUSSES (DESIGN LOADS):**

TOP CHORD LIVE AND DEAD LOAD 30 PSF  
 BOTTOM CHORD DEAD LOAD 10 PSF  
 TOTAL 40 PSF

**SOIL BEARING VALUE:**

ASSUMED ALLOWABLE SOIL BEARING PRESSURE AFTER COMPACTION: 2000 PSF

**TRUSS ANCHORS:**

INSTALL THE FOLLOWING SIMPSON ANCHOR(S) AT EACH TRUSS TO EXTERIOR WALL INTERIOR LOAD BEARING WALL, AND PORCH BEAM LOCATIONS.

SINGLE PLY ROOF TRUSSES AND FLOOR JOIST TRUSSES - INSTALL SIMPSON H10A

DOUBLE PLY ROOF TRUSSES - INSTALL SIMPSON H10A-2

**WALL STRAP TIES:**

AT THE TOP AND BOTTOM OF THE WALL, INSTALL ONE SIMPSON SP6 AT EACH SIDE OF DOORS AND WINDOWS 4' OR LESS IN WIDTH, INSTALL TWO SIMPSON SP6S AT EACH SIDE OF DOORS AND WIDOWS LARGER THAN 4' BUT LESS THAN 6' AND AT 4' O.C. ON ALL EXTERIOR WALLS. INSTALL MSCT 40 TO PROVIDE CONTINUOUS LOAD PATH THROUGHOUT THE SYSTEM AND ACROSS THE CLEAR SPAN. FOR INTERIOR LOAD BEARING WALLS INSTALL ONE SP4 TOP AND BOTTOM OF WALL AT 32" O.C. AND EACH SIDE OF DOOR OPENINGS.

10' DOOR OPENING INSTALL THREE SIMPSON SP4 ON EACH SIDE AT THE BOTTOM OF THE WALL. INSTALL THREE SIMPSON LSTA18 (NAILS - 0.148 X 2 1/2) ON EACH SIDE AT THE TOP OF THE WALL (DOUBLE TOP PLATE, HEADER, CRIPPLES).

(5/8" THREADED ROD, EMBEDDED 10" INTO SLAB WITH SIMPSON EPOXY OR COUPLED WITH 5/8" SIMPSON TITEN HD SCREW ANCHOR, UP THRU DOUBLE TOP PLATE WITH 3" SQUARE PLATE WASHER MAY BE SUBSTITUTED FOR SP6 INSTALLATIONS).

**SHEATHING**

WALL SHEATHING SHALL BE INSTALLED WITH LONG DIMENSION VERTICAL ON EXTERIOR WALLS AND FULL-DEPTH BLOCKING SHALL BE REQUIRED AT HORIZONTAL JOINTS IN SHEATHING.

**FRONT AND REAR PORCH COLUMNS AND BEAMS:**

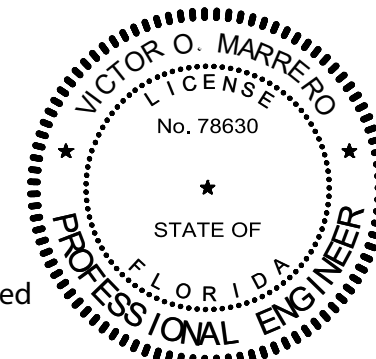
\*\* (CONSULT HOMEOWNER FOR DECORATIVE ENTRY BEAM OPTIONS). COLUMNS SHALL BE 6"x6" PT. LOAD BEARING BEAM(S): 2 - 2"x12" SYP W/ 7/16" PLYWOOD BETWEEN. INSTALL SIMPSON ABU66 FOR COLUMN CONNECTIONS TO SLAB AND FOR COLUMN TOP INSTALL SIMPSON AC6MAX AT EACH COLUMN TO BEAM CONNECTION. (ACE6MAX MAY BE INSTALLED AT END COLUMNS) INSTALL SIMPSON HUCQ412-SDS AT BEAM TO EXTERIOR WALL LOCATIONS.

PORCH CEILINGS:  
OPEN STRUCTURE.

**HEADER SCHEDULE:**

LOCATION	HEADER	JACK STUDS /KING STUDS
<b>FIRST FLOOR</b>		
DOORS AND WINDOWS (3')	3 - 2"x8" SYP W/ 7/16" PLYWOOD BETWEEN	1/1
DOORS AND WINDOWS (4')	3 - 2"x10" SYP W/ 7/16" PLYWOOD BETWEEN	1/2
DOORS AND WINDOWS (5')	2 - 2"x8" LOUSINA PACIFIC - LVL	2/2
DOORS AND WINDOWS (6')	3 - 2"x8" LOUSINA PACIFIC - LVL	2/2
DOORS AND WINDOWS (8')	2 - 2"x12" LOUSINA PACIFIC - LVL	3/3
<b>SECOND FLOOR</b>		
DOORS AND WINDOWS (3')	2 - 2"x6" SYP W/ 7/16" PLYWOOD BETWEEN	1/1
DOORS AND WINDOWS (4')	2 - 2"x6" SYP W/ 7/16" PLYWOOD BETWEEN	1/2
DOORS AND WINDOWS (6'-10")	3 - 2"x6" SYP W/ 7/16" PLYWOOD BETWEEN	2/3

AFFINE ENGINEERING AND SURVEYING, INC.  
 CERTIFICATE OF AUTHORIZATION No. 29140



Victor O Marrero  
 Digitally signed by Victor O Marrero  
 Date: 2024.03.16 08:15:41 -04'00'

VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

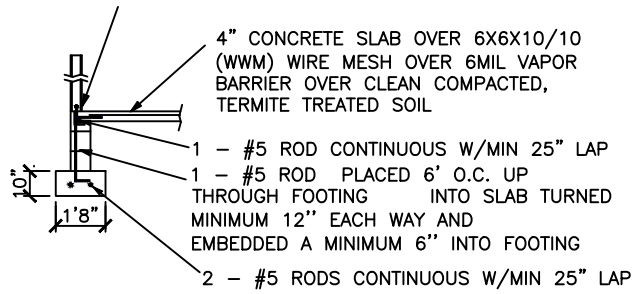
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 CHECKED BY: VICTOR O. MARRERO  
 DATE: 3/15/24  
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 JOB #: 021423VELO

AFFINE ENGINEERING AND SURVEYING, INC.  
 AFFINE CIVIL ENGINEERS  
 SURVEYORS  
 TELEPHONE NUMBER 407-421-5534  
 10354 JEPSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140

DRAWING FOR: ANDRES VELO  
 SHEET: A-10  
 DESIGN CRITERIA

VICTOR O. MARRERO  
 FLORIDA P.E. # 78630  
 DATE: 03/15/2024

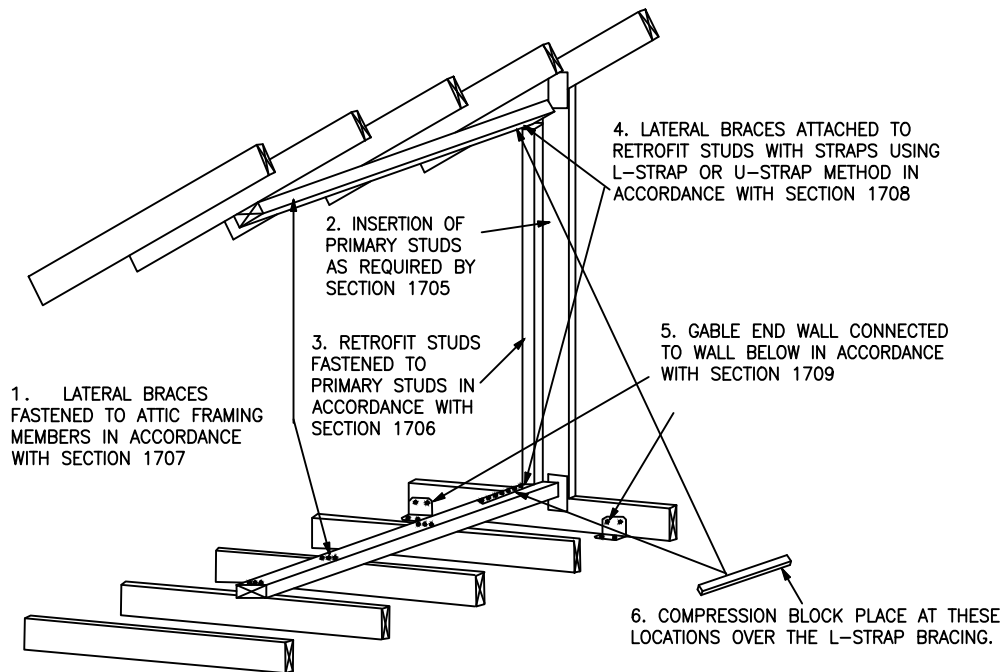
P.T 2X4 BOTTOM PLATE W/SILL SEALANT  
 8"x10"ANCHOR BOLTS 4' MAX O.C. W/  
 3"x3"x1/8"WASHER AT EACH BOLT



(A) STEM WALL FOUNDATION (TYP)

**FOUNDATION NOTES**

1. THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED w/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL
2. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC-RES. SECTION R403.1.4

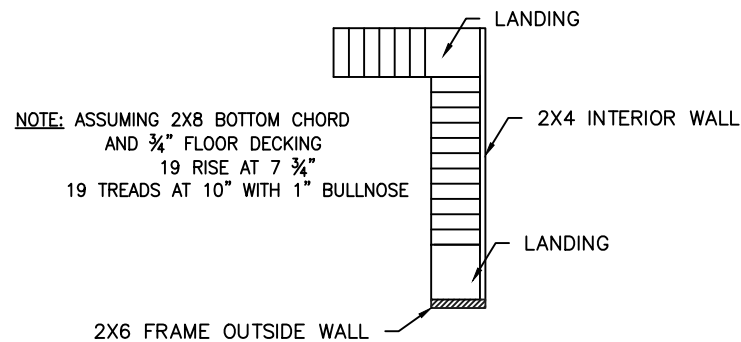
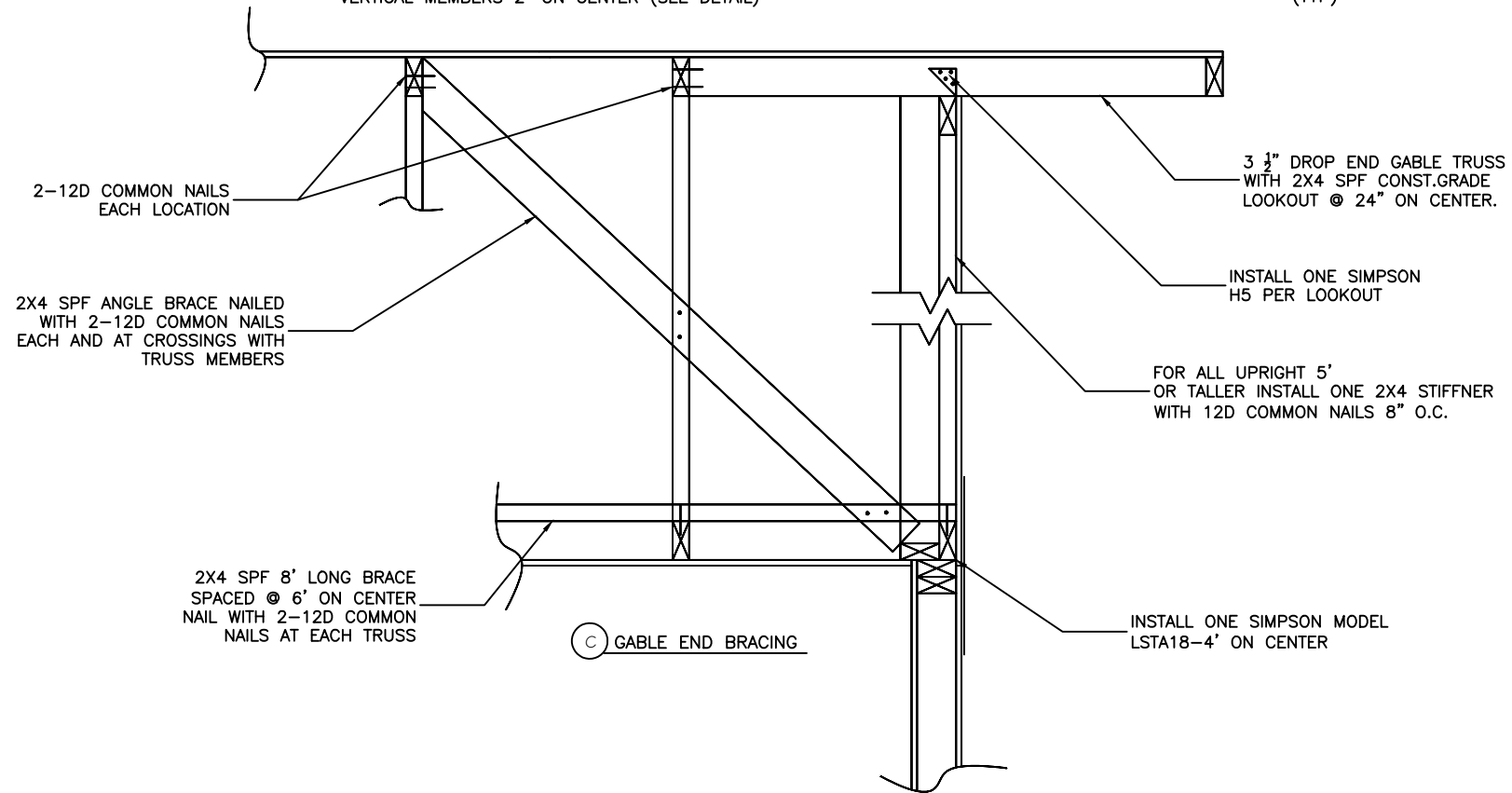


THIS FIGURE SHOWS A TRUSS GABLE END USING THE L-BENT STRAP METHOD IN ORDER TO SHOW STRAPS, COMPRESSION BLOCKS ARE NOT SHOWN. THE METHODOLOGY FOR A CONVENTIONALLY FRAMED GABLE END IS SIMILAR. NOT ALL DETAILS ARE SHOWN.

(C) GABLE AND BRACING

**GABLE ENDS:**  
 AT GABLE ENDS INSTALL ONE SIMPSON MODEL H5 ANCHOR LOOKOUTS CONNECT TO END GABLE TRUSS.

**BRACING:** AT EACH GABLE END INSTALL ONE 2X4 SPF 8' STUD SPACED 6' ON CENTER HORIZONTAL ALONG TOP OF BOTTOM CHORD OF TRUSSES, NAIL WITH 2-12D NAILS AT EACH TRUSS INCLUDING END TRUSS. IN ADDITION, INSTALL A 2X4 BRACE EXTENDING FROM THIS STUD AT THE GABLE END TRUSS 45 DEGREES TO THE TRUSS AT ROOF SHEATHING, NAIL WITH 2-12D NAILS WHERE IT CROSSES TRUSS MEMBERS AND AT ENDS. GABLE END TRUSS SHALL BE BUILT TO RECEIVE SHEATHING WITH VERTICAL MEMBERS 2' ON CENTER (SEE DETAIL)



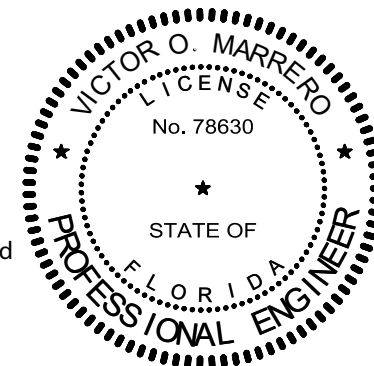
(B) STAIR DETAIL (TYP)

WINDOW TYPES	WIDTH	HEIGHT
W-1	60"	72"
W-2	48"	36"
W-3	36"	24"

DOOR TYPES	WIDTH	HEIGHT
D-1	72"-12" SIDE PANEL	80"
D-2	36"-12" SIDE PANEL	80"
D-3	36"	80"
D-4	30"	80"

(D) WINDOWS AND DOORS (TYP)

AFFINE ENGINEERING AND SURVEYING, INC.  
 CERTIFICATE OF AUTHORIZATION No. 29140



Victor O. Marrero  
 Digitally signed by Victor O. Marrero  
 Date: 2024.03.15 19:58:18 -04'00'

VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

DATE 03/14/2024

PREPARED FOR:

ANDRES VELO

SHEET A-11

NOTES AND DETAILS



AFFINE ENGINEERING AND SURVEYING, INC.  
 CIVIL ENGINEERS  
 TELEPHONE NUMBER 407-421-5534  
 10354 WEPSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140

DRAWN BY: ERNESTO H. PEREZ  
 CHECKED BY: VICTOR O. MARRERO  
 DATE: 3/14/24  
 SCALE: JOB #  
 021423VELO

SEALED ROOF PLAN OPTIONS:

OPTION I

A layer of self-adhering polymer-modified bitumen underlayment complying with ASTM D1970 applied over the entire roof.

OPTION II

Either  
 (A min. 4-inch wide strip of self-adhering polymer-modified bitumen complying with ASTM D1970 or  
 A min. 3 3/4 - inch wide strip of self adhering flexible flashing tape complying with AAMA 711) applied over all joints in the roofing deck.  
 with  
 One layer of #30 felt underlayment complying with ASTM D226 Type II, ASTM D4869 Type III or IV, or ASTM D4533, or a synthetic underlayment complying with ASTM D226 Type II (min. tear strength 15 lb ASTM D4533, min. tensile strength 20 lbf/in ASTM D5035)

See installation below:

OPTION III

Two layers of #30 felt underlayment complying with ASTM D226 Type II, ASTM D4869 Type III or IV, or ASTM D6757, or a synthetic underlayment complying with ASTM D226 Type II (min. tear strength 15 lbf ASTM D4533, min. tensile strength 20 lbf/in ASTN D5035)

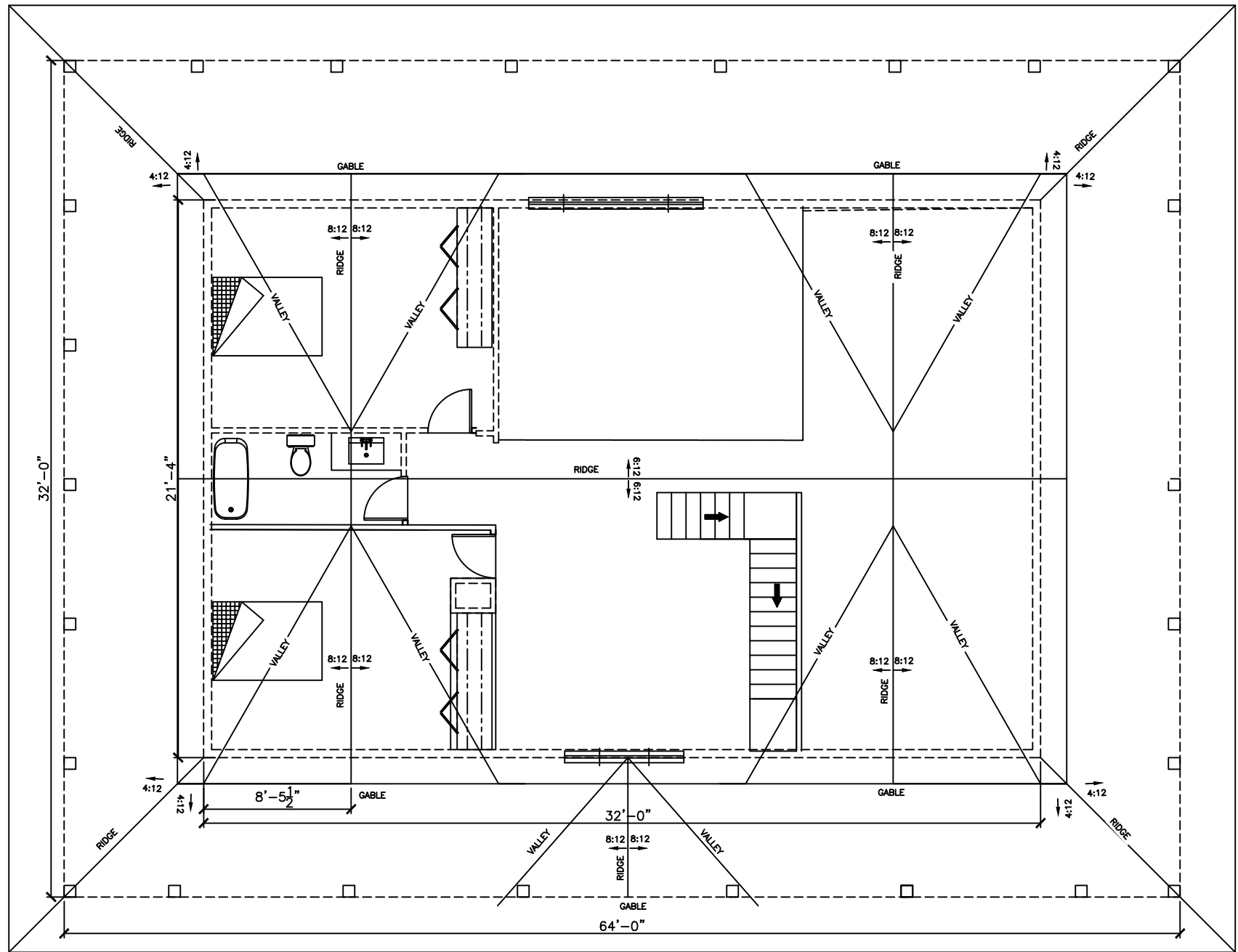
See installation below:

INSTALLATION

Apply a 19-inch strip of underlayment felt parallel to and starting at the eaves, fastened sufficiently to hold in place. Starting at the eave, apply 36-inch-wide sheet of underlayment, overlapping successive sheets in 19 inches; end laps shall be 6 inches and shall be offset by 6 feet.  
 The underlayment shall be attached to a nailable deck with corrosion resistance fasteners with one row centered in the field of the sheet with a maximum fastener spacing of 12 inches o.c., and one row at the end and side laps fastened 6 inches o.c. Underlayment shall be attached using annular ring or deformed shank nails with meal or plastic caps with a nominal cap diameter of not less than 1 inch.  
 Metal caps shall have a thickness of not less than 32-gage sheet metal. Power driven metal caps shall have a minimum thickness of 0.010 inch. The minimum thickness of the outside edge of plastic caps shall be 0.035 inches. The cap nail shank shall have a length sufficient to penetrate through the roof sheathing or not less than 3/4 inch into the roof sheathing.

ROOF SHEATHING FASTNERS			
PRESSURE ZONE	SHEATHING TYPE	FASTNER	SPACING
ALL ZONES	15/32" OSB	(2 3/8" x 0.113" RING SHANK NAILS)	6" O.C. EDGE
			6" O.C. FIELD

3e		2e	3e
2n		1	2n
3r		2r	3r
3r		2r	3r
2n		1	2n
3e		2e	3e



Roof component and cladding pressure zones (gable roof) (7 to <= 45 degrees)

Digitally signed by Victor O. Marrero  
 Date: 2024.03.16 08:20:24 -04'00'

AFFINE ENGINEERING AND SURVEYING, INC.  
 CERTIFICATE OF AUTHORIZATION No. 29140

VICTOR O. MARRERO  
 LICENSE No. 78630  
 STATE OF FLORIDA  
 PROFESSIONAL ENGINEER

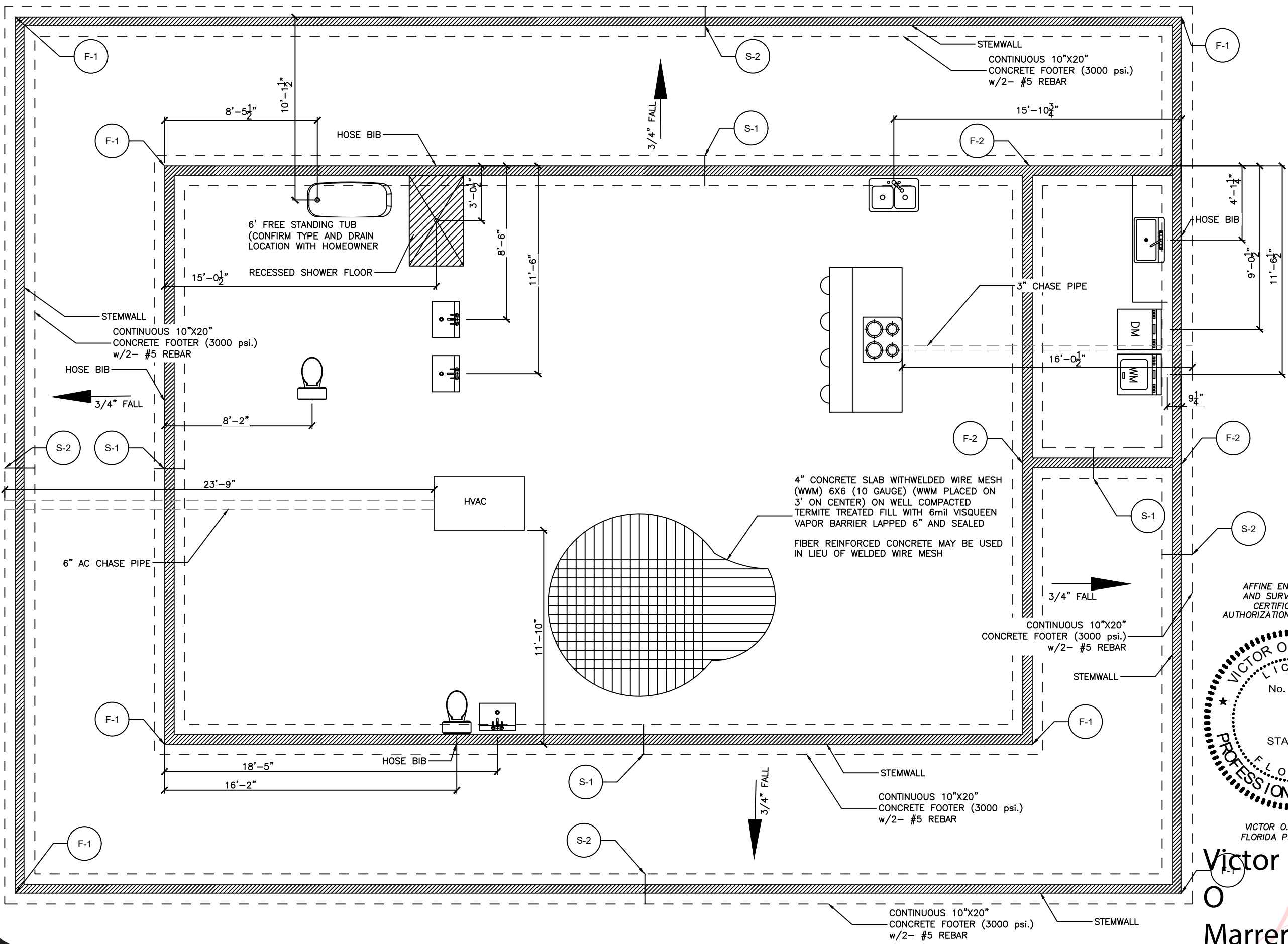
VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

DRAWING PREPARED FOR: ANDRES VELO  
 SHEET A-12  
 ROOF PLAN

VICTOR O. MARRERO  
 FLORIDA P.E. # 78630  
 DATE 03/15/2024

AFFINE ENGINEERING AND SURVEYING, INC.  
 CIVIL ENGINEERS  
 TELEPHONE NUMBER 407-421-5534  
 10354 JEFFERSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140

DRAWN BY: ERNESTO H. PEREZ  
 CHECKED BY: VICTOR O. MARRERO  
 DATE: 3/15/24  
 SCALE: 1/8"=1'  
 JOB #: 021432VELO

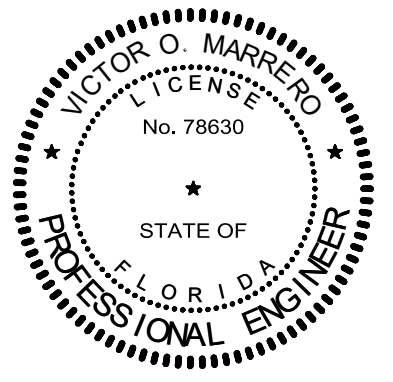


DRAWN BY: ERNESTO H. PEREZ  
 CHECKED BY: VICTOR O. MARRERO  
 DATE: 3/14/24  
 SCALE: 3/16"=1"  
 JOB #: 021423VELO

**AFFINE ENGINEERING AND SURVEYING, INC**  
 SURVEYORS  
 CIVIL ENGINEERS  
 TELEPHONE NUMBER 407-421-5534  
 10354 JEPSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140



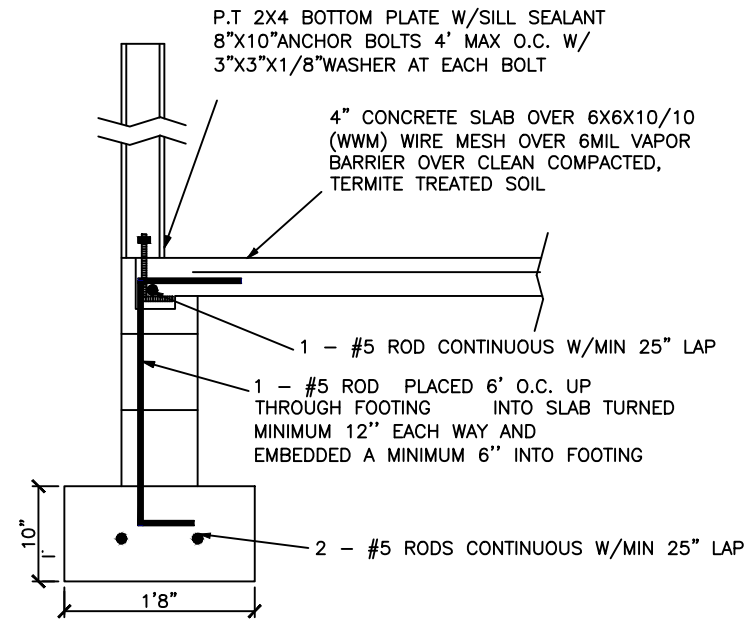
**AFFINE ENGINEERING AND SURVEYING, INC.**  
 CERTIFICATE OF AUTHORIZATION No. 29140



VICTOR O. MARRERO  
 FLORIDA P.E. # 78630  
**Victor O. Marrero**  
 Digitally signed by Victor O. Marrero  
 Date: 2024.03.15 20:00:55 -04'00'

PREPARED FOR:  
 ANDRES VELO  
 FUNDATION AND PLUMBING

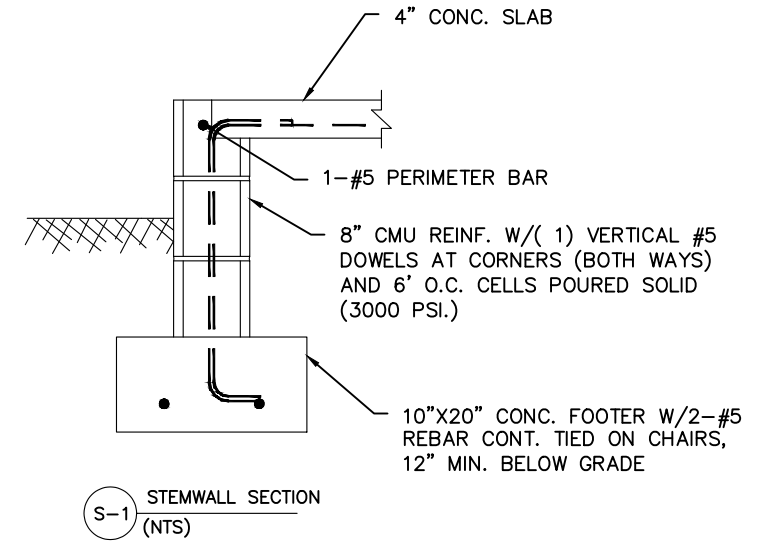
DRAWING FOR: 18-004  
 SHEET: A-13



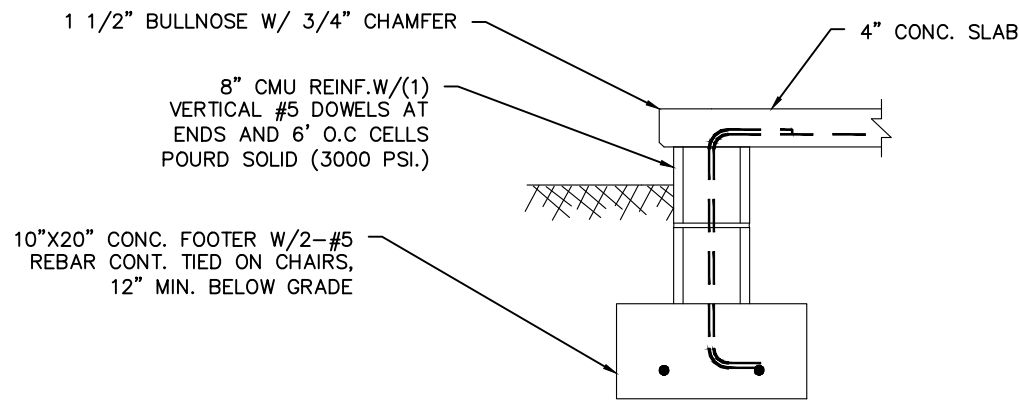
(A) STEM WALL FOUNDATION (TYP)

FOUNDATION NOTES

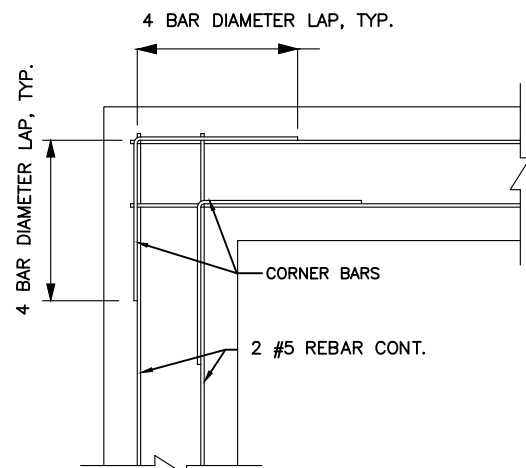
1. THE SLAB SHALL BE 4" CONCRETE SLAB REINFORCED w/ 6X6-1.4/1.4 WELDED WIRE MESH PLACED ON CHAIRS 1 1/2" DEPTH OR FIBER MESH CONCRETE, 6-MIL POLY VAPOR BARRIER w/ 6" LAPS SEALED w/ POLY TAPE OVER TERMITE-TREATED & COMPACTED FILL
2. BOTTOM OF EXTERIOR FOOTINGS SHALL BE A MINIMUM OF 12" BELOW UNDISTURBED SOIL OR ENGINEERED FILL PER FBC-RES. SECTION R403.1.4



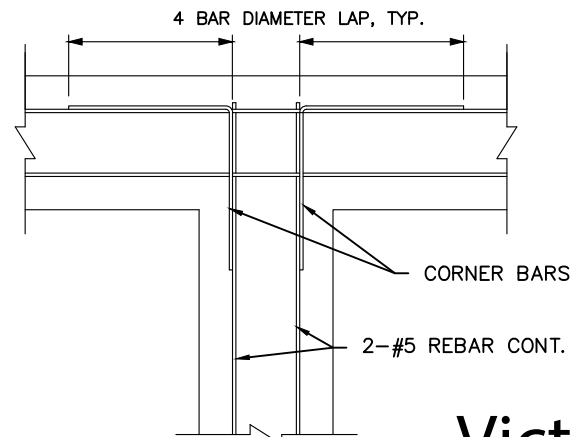
(S-1) STEMWALL SECTION (NTS)



(S-2) STEMWALL SECTION AT PORCH (NTS)



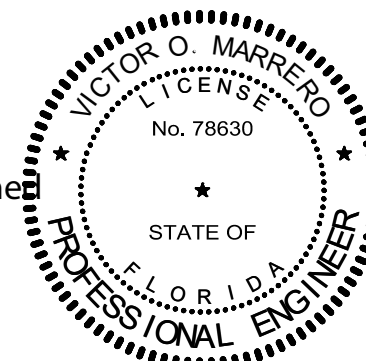
(F-1) FOOTING REINFORCING AT CORNER (NTS)



(F-2) FOOTING REINFORCING AT INTERSECTION (NTS)

Victor O Marrero  
 Digitally signed by Victor O Marrero  
 Date: 2024.03.14 22:48:21 -04'00'

AFFINE ENGINEERING AND SURVEYING, INC.  
 CERTIFICATE OF AUTHORIZATION No. 29140



VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

DATE: 03/14/2024

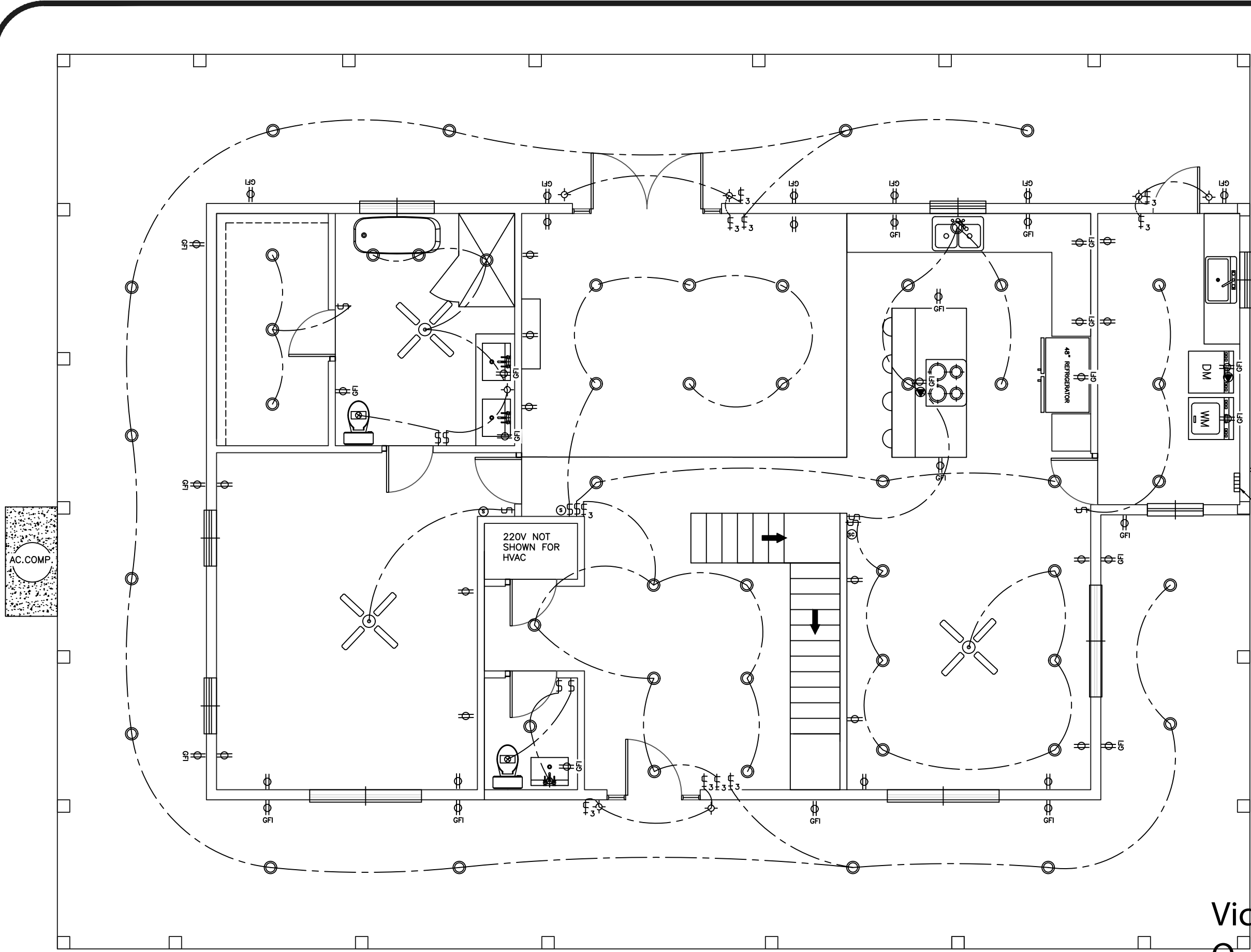
DRAWING 18-004 SHEET A-14

PREPARED FOR: ANDRES VELO

FOUNDATION DETAILS

AFFINE ENGINEERING AND SURVEYING, INC.  
 AFFINE CIVIL ENGINEERS  
 SURVEYORS  
 TELEPHONE NUMBER 407-421-5534  
 10354 JEFFERSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140

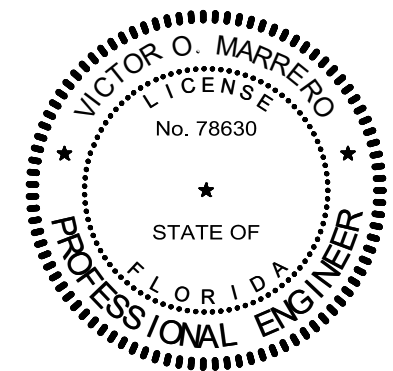
DRAWN BY: ERNESTO H. PEREZ  
 CHECKED BY: VICTOR O. MARRERO  
 DATE: 3/14/24  
 SCALE: JOB # 021423VELO



- ELECTRICAL LEGEND**
- ⊗ - CEILING FAN
  - ⊙ - LIGHT FIXTURE
  - - RECESSED L.E.D CAN LIGHT FIXTURE
  - ⊞ - SINGLE POLE SWITCH
  - ⊞<sub>3</sub> - THREE WAY SWITCH
  - ⊕ - RECEPT.
  - ⊕<sub>GFI</sub> - GFI RECEPT
  - ⊞<sub>E/L</sub> - EXHAUST/LIGHT (MINIMUM 150 CFM)
  - ⊕<sub>220V</sub> - 220V
  - ⊕<sub>SD</sub> - SMOKE DETECTOR (AC/DC AND INTERCONNECTED)
  - ⊕<sub>T/COAX</sub> - TELEPHONE AND RG6-COAX
  - ⊕<sub>SD/CO</sub> - SMOKE/CARBON MONOXIDE DETECTOR COMBINATION (AC/DC AND INTERCONNECTED)

- NOTES:**
1. ALL ELECTRICAL COMPONENTS, EQUIPMENT AND SYSTEMS SHALL COMPLY WITH THE PROVISION OF NFPA 70 NATIONAL ELECTRICAL CODE (LATEST EDITION).
  2. ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF.
  3. ALL BEDROOM RECEPTACLES SHALL BE CHILD RESISTANT













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 CERTIFICATE OF AUTHORIZATION No. 29140



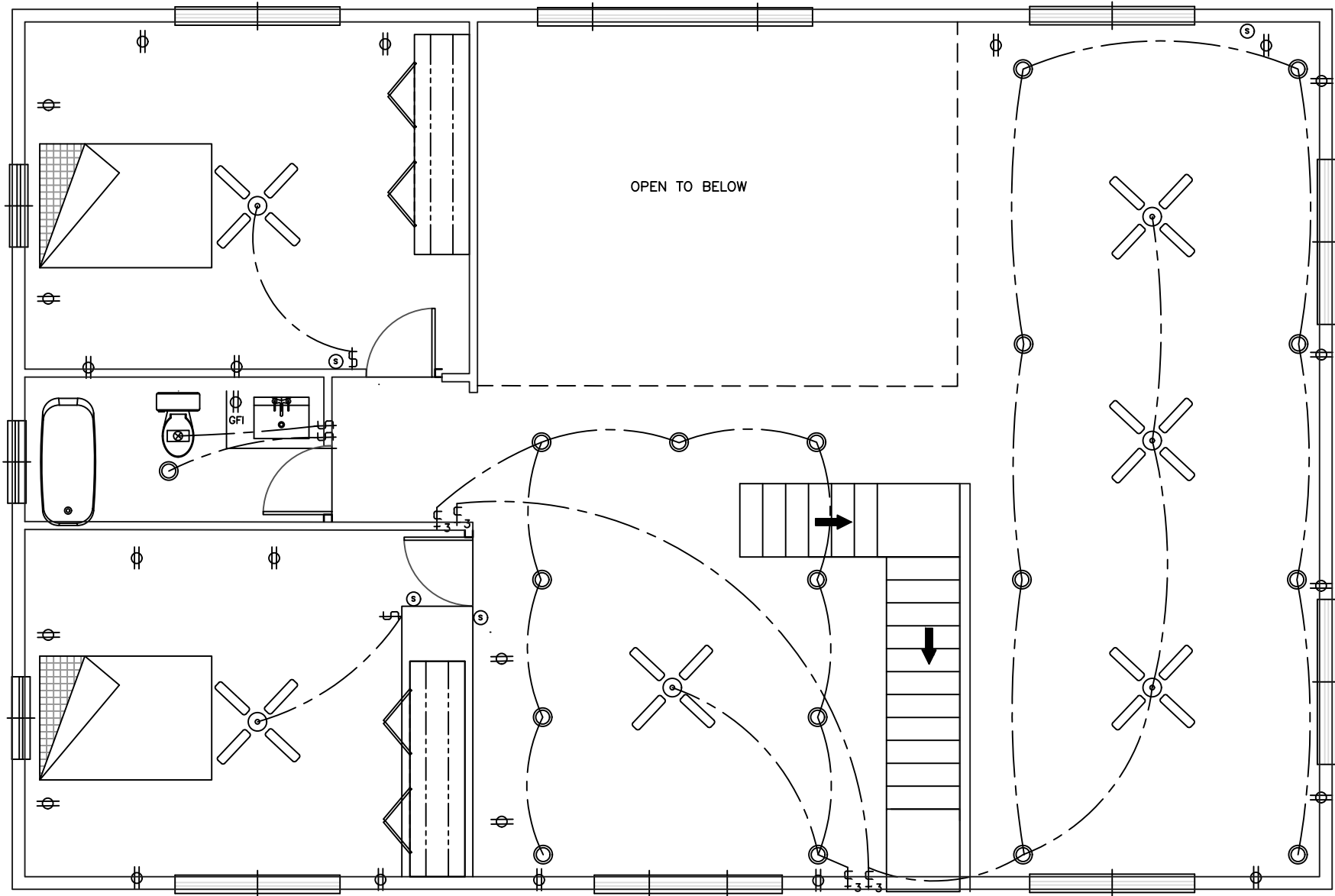
VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

Victor O. Marrero  
 Digitally signed by Victor O. Marrero  
 Date: 2024.03.14 22:53:32 -0400

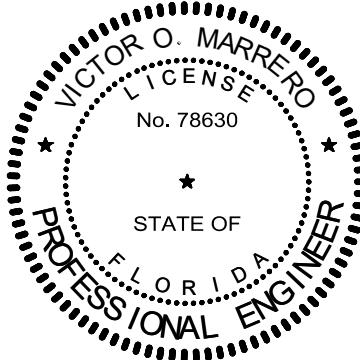
DRAWN BY: ERNESTO H. PEREZ  
 CHECKED BY: VICTOR O. MARRERO  
 DATE: 3/14/24  
 SCALE: 3/16"=1"  
 JOB #: 021423VELO  
 AFFINE ENGINEERING AND SURVEYING, INC. SURVEYORS  
 TELEPHONE NUMBER 407-421-5534  
 10354 JEPSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140  
 AFFINE ENGINEERS CIVIL ENGINEERS  
 AFFINE  
 PREPARED FOR: ANDRES VELO  
 SHEET: A-15  
 DRAWING: 18-004  
 PROJECT: 1ST FLOOR ELECTRICAL PLAN

- ELECTRICAL LEGEND**
-  - CEILING FAN
  -  - LIGHT FIXTURE
  -  - RECESSED L.E.D CAN LIGHT FIXTURE
  -  - SINGLE POLE SWITCH
  -  - THREE WAY SWITCH
  -  - RECEPT.
  -  - GFI RECEPT
  -  - EXHAUST/LIGHT (MINIMUM 150 CFM)
  -  - 220V
  -  - SMOKE DETECTOR (AC/DC AND INTERCONNECTED)
  -  - TELEPHONE AND RG6-COAX
  -  - SMOKE/CARBON MONOXIDE DETECTOR COMBINATION (AC/DC AND INTERCONNECTED)

- NOTES:**
1. ALL ELECTRICAL COMPONENTS, EQUIPMENT AND SYSTEMS SHALL COMPLY WITH THE PROVISION OF NFPA 70 NATIONAL ELECTRICAL CODE (LATEST EDITION).
  2. ALL EXTERIOR RECEPTACLES SHALL BE WEATHERPROOF.
  3. ALL BEDROOM RECEPTACLES SHALL BE CHILD RESISTANT



**Victor O Marrero**  
 Digitally signed by Victor O Marrero  
 Date: 2024.03.15 19:08:01 -04'00'



AFFINE ENGINEERING AND SURVEYING, INC.  
 CERTIFICATE OF AUTHORIZATION No. 29140

VICTOR O. MARRERO  
 FLORIDA P.E. # 78630

DATE 03/14/2024

PREPARED FOR:

ANDRES VELO  
 2ND FLOOR ELECTRICAL PLAN

DRAWING SHEET A-16



AFFINE ENGINEERING AND SURVEYING, INC.  
 CIVIL ENGINEERS  
 SURVEYORS  
 TELEPHONE NUMBER 407-421-5534  
 10354 JEPSON STREET, ORLANDO, FLORIDA 32825  
 CERTIFICATE OF AUTHORIZATION: No. 29140

DRAWN BY ERNESTO H. PEREZ  
 CHECKED BY VICTOR O. MARRERO  
 DATE 3/14/24  
 SCALE 3/16"=1'  
 JOB # 021423VELO