GENERAL CONSTRUCTION NOTES

GENERAL CONSTRUCTION NOTES

1. ALL WORK UNDER THIS PERMIT SHALL BE PERFORMED IN STRICT COMPLIANCE WITH THE FLORIDA BUILDING CODE, LATEST EDITION, AND ALL OTHER APPLICABLE GOVERNING CODES AND REGULATIONS HAVING JURISDICTION. F.B.C. 2017 EDITION AND ALL LATEST REVISIONS
2. AS A PREREQUISITE FOR ELIGIBILITY TO BID UNDER THIS CONTRACT, ALL BIDDERS ARE REQUIRED TO CONDUCT AN ON SITE INVESTIGATION OF EXISTING CONDITIONS TO BECOME FAMILIAR WITH THE NATURE AND SCOPE OF WORK. THE BASE BID SHALL REFLECT ANY MODIFICATIONS TO SYSTEMS AND DEVICES REQUIRED BY STATE AND LOCAL CODES OR LANDLORD REQUIREMENTS. SUBMISSION OF A BID CONSTITUTES CERTIFICATION THAT SUCH ON SITE INVESTIGATION HAS BEEN CONDUCTED. FUTURE CLAIMS FOR ADDITIONAL LABOR, EQUIPMENT AND/OR MATERIALS TO ADDRESS ANY DIFFICULTIES WHICH SHOULD HAVE BEEN DETECTED DURING PRE-BID INVESTIGATION OF EXISTING CONDITIONS SHALL BE DENIED.
3. PRIOR TO STARTING CONSTRUCTION, CONTRACTOR SHALL MEET WITH LANDLORD'S DESIGNATED REPRESENTATIVE TO DISCUSS PROCEDURES AND REQUIREMENTS FOR ACCESS TO SITE, WORK HOURS, PARKING, DELIVERIES, REMOVAL OF CONSTRUCTION WASTE AND DEBRIS, TEMPORARY BARRICADES AND GENERAL OPERATIONS WHICH MAY NEED TO BE COORDINATED.
4. CONTRACTOR SHALL PROVIDE AND INSTALL A MINIMUM OF ONE FIVE POUND "ABC" TYPE U.L. LISTED FIRE EXTINGUISHER FOR EVERY 2,500 SQ. FEET OF OFFICE AREA. LOCATION SHALL BE APPROVED BY FIRE MARSHALL PRIOR TO INSTALLATION.
5. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE BEST PRACTICES OF THE CONSTRUCTION TRADES IN A PROFESSIONAL WOKMAN-LIKE MANNER. ANY WORK NOT CONFORMING WITH THESE STANDARDS SHALL BE REJECTED BY THE ARCHITECT AND CORRECTED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
6. THE CONTRACTOR SHALL WARRANTY ALL LABOR AND MATERIALS FOR A PERIOD OF ONE YEAR FROM THE DATE OF COMPLETION.
7. ALL MATERIALS FURNISHED BY THE CONTRACTOR SHALL BE NEW AND SHALL BE STORED IN SUCH A MANNER AS TO PROTECT THEM FROM THE ELEMENTS AND FROM ANY DAMAGE.
8. ALL WOOD MEMBERS IN DIRECT CONTACT WITH CONCRETE OR MASONRY SHALL BE TREATED WITH AN APPROVED PRESERVATIVE.
9. ALL WOOD BLOCKING WITHIN FIRE RATED DEMISING WALLS, METAL FRAMED WALLS AND ABOVE FINISHED CEILING SHALL BE FIRE LABELED WOOD WITH A MINIMUM FLAME SPREAD RATING OF 25.
10. CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND SPECIFICATIONS PROVIDED BY EQUIPMENT MANUFACTURERS AND SUPPLIERS PRIOR TO INSTALLATION.
11. CONTRACTOR SHALL KEEP WORK AREAS CLEAN AND REMOVE ALL CONSTRUCTION DEBRIS FROM THE SITE. CONTRACTOR SHALL EMPLOY REASONABLE MEASURES TO PROTECT THE EXISTING PREMISES FROM DAMAGE AND SHALL BE LIABLE FOR ANY NEEDED REPAIRS.

PROJECT NAME

Groves Residence

26209 SW Jockeys Run, Okeechobee, FL 34974

SHEET INDEX

DESIGN "The perfect fit - in design"
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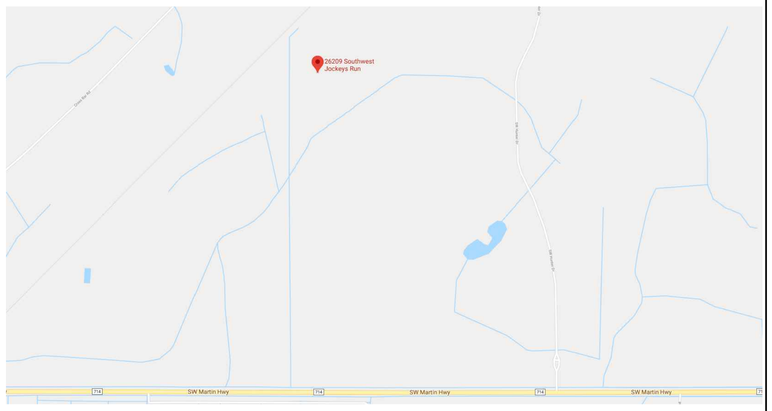
4-19-2021

CRAIG E. GUNDERSON LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

LOCATION MAP



NORTH

PROJECT PROFESSIONALS

ENGINEER OF RECORD

FLORIDA ENGINEERING LLC
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CELL: 941-391-1184
WWW.FLENGINEERINGLLC.COM

MEP ENGINEER

PERCY MALPARTIDA NUNEZ
8046 SW 22nd COURT
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pemn21@gmail.com
PERCY MALPARTIDA NUNEZ
P.E. 77935

DESIGN PROFESSIONAL

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CRAIG E. GUNDERSON LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Date: 2021.04.19 11:36:28 -04'00'

GROVES RESIDENCE
26209 SW Jockeys Run, Okeechobee, FL 34974
TITLE SHEET

PROJECT NAME:
ADDRESS:
SHEET TITLE:

REVISIONS:
1- BLDG. DEPT. COMMENTS 02.15.2021
2- BLDG. DEPT. COMMENTS 04.15.2021

I HEREBY CERTIFY AS THE BUILDING DESIGN ENGINEER OF RECORD, THAT THE BUILDING DESIGN AS SHOWN ON THESE PLANS (STRUCTURAL COMPLIANCE ONLY) AND AS ACCOMPANIED BY DESIGN AND SUPPORT DOCUMENTS, CONFORMS TO THE 2017 6TH EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION DOES NOT INCLUDE ROOF TRUSS COMPONENTS OF WHICH THE TRUSS DESIGN ENGINEER IS THE ENGINEER OF RECORD. THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2017 6TH EDITION FLORIDA BUILDING CODE WITH SUPPLEMENTS.

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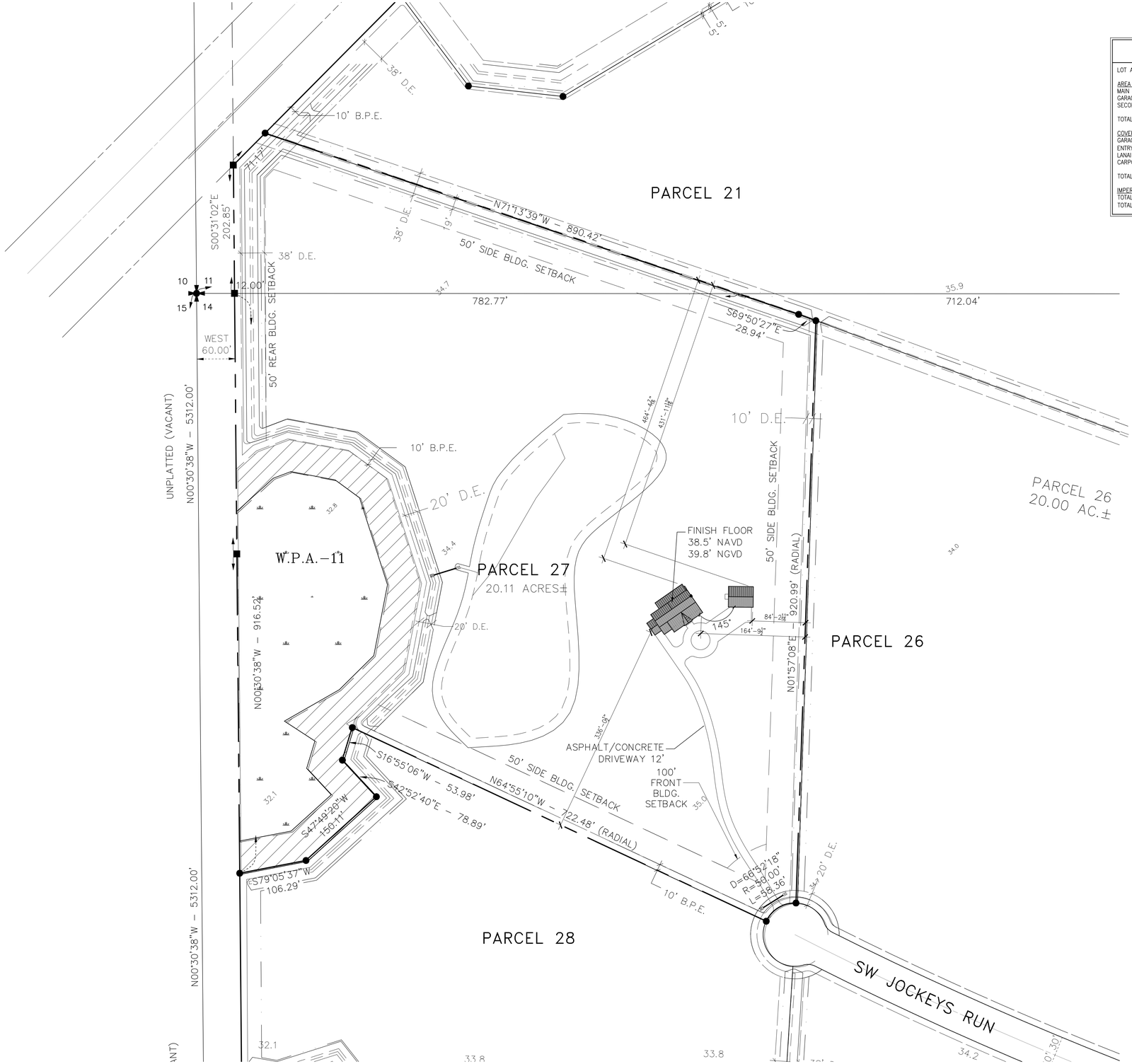
CA CERT. #30782

JOB NO. ES-20-012
DATE: 04.16.21
SHEET NO. 1.0



AREA TABULATION

LOT AREA:	876,121 SF
AREA UNDER AIR	
MAIN HOUSE FIRST FLOOR AREA:	2,388 SF
GARAGE EXERCISE ROOM:	380 SF
SECOND FLOOR AREA:	683 SF
TOTAL AREA UNDER AIR:	3,451 SF
COVERED AREA NOT UNDER AIR	
GARAGE AREA:	760 SF
ENTRY/PORCH AREA:	363 SF
LANAI AREA:	585 SF
CARPORT AREA:	258 SF
TOTAL AREA UNDER ROOF:	5,417 SF
IMPERVIOUS AREA	
TOTAL IMPERVIOUS AREA, INCLUDING DRIVEWAY:	14,898 SF
TOTAL LOT COVERAGE PROVODED:	(0.017%)

NORTH

1 / 2.0 SITE PLAN

SCALE: 1" = 80' +/-

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GROVES RESIDENCE
26209 SW Jockeys Run, Okeechobee, FL 34974
SITE PLAN

PROJECT NAME:
ADDRESS:
SHEET TITLE:

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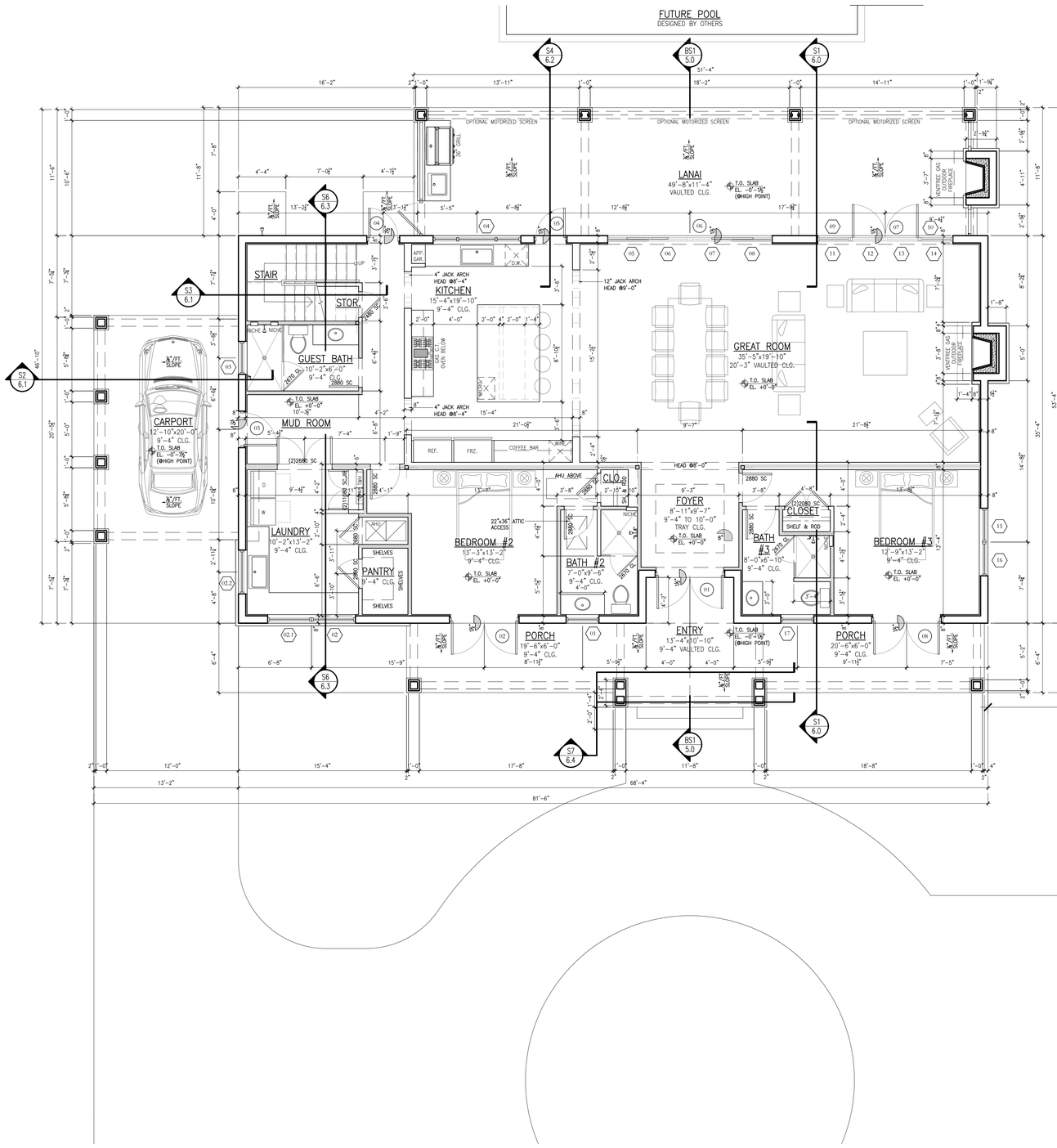
2- BLDG. DEPT. COMMENTS 04.15.2021



FIRST FLOOR PLAN

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

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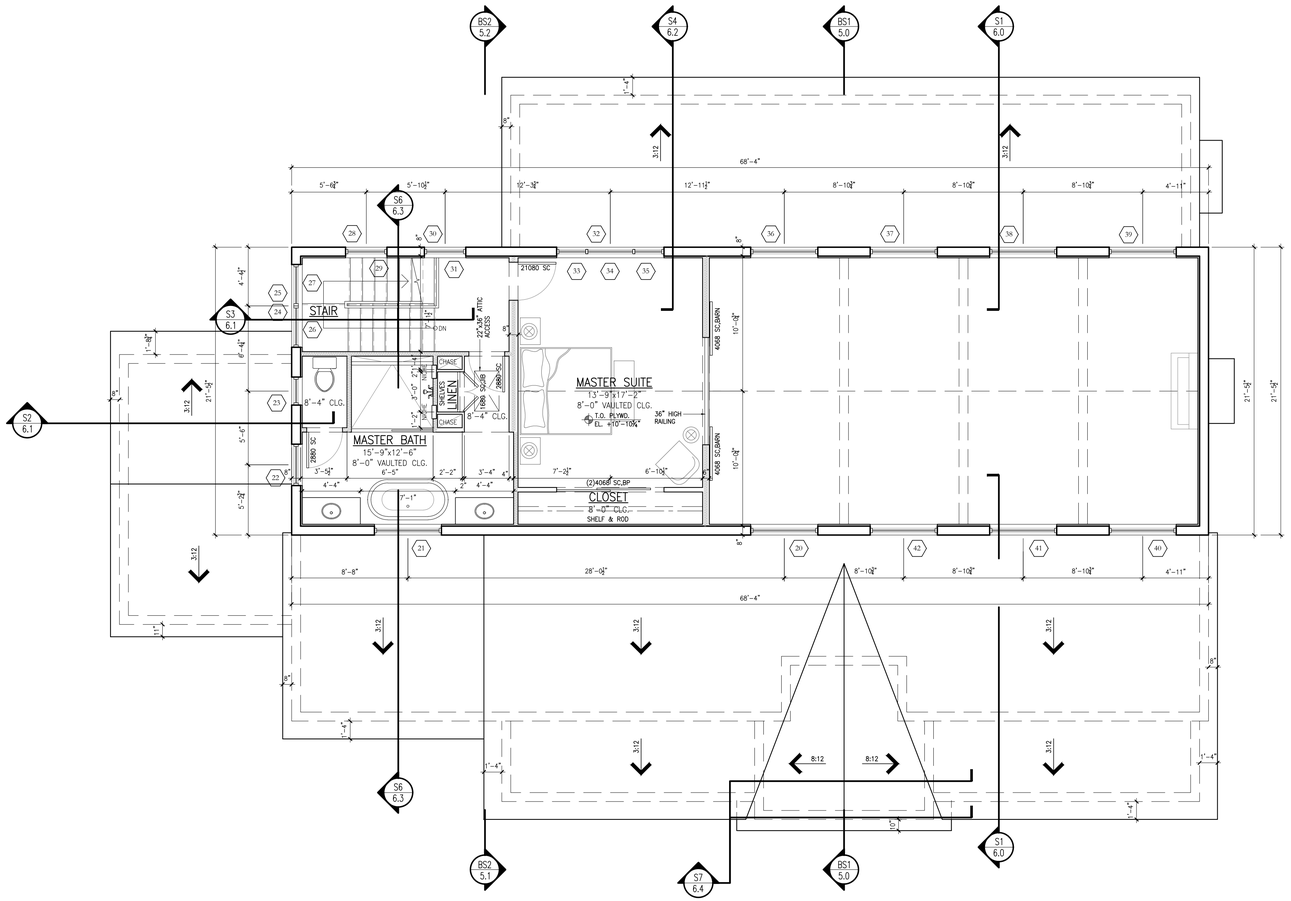
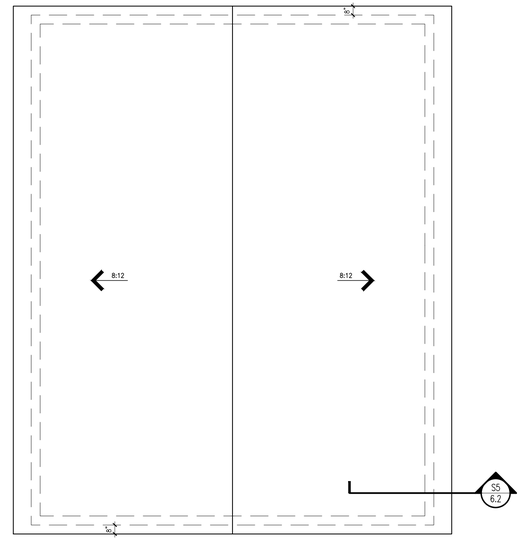
4-19-2021

PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: FIRST FLOOR PLAN

REVISIONS:
1- BLDG. DEPT. COMMENTS 02.15.2021
2- BLDG. DEPT. COMMENTS 04.15.2021





NORTH

1 / 3.1 SECOND FLOOR PLAN

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

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SHEET NO. 3.1

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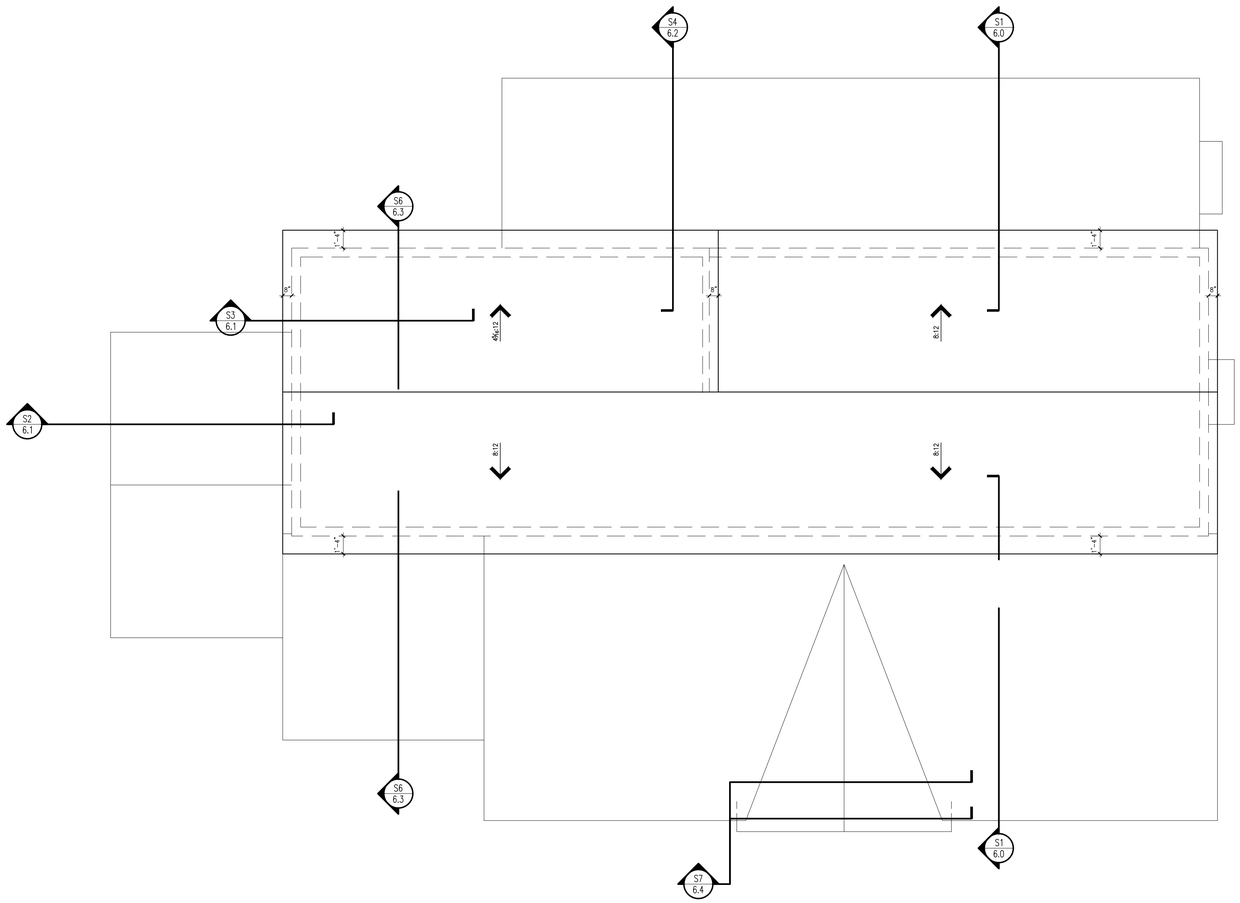
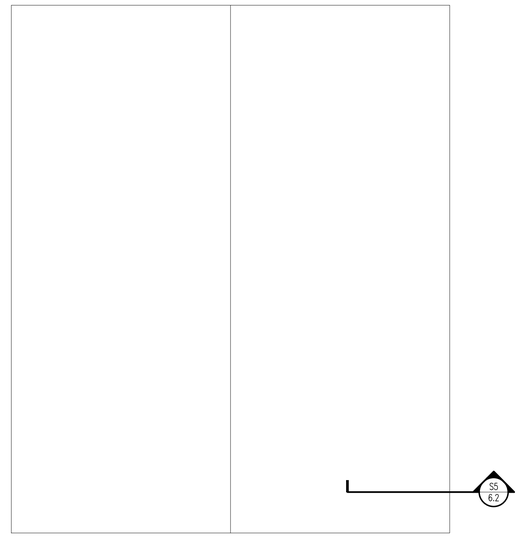
PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: SECOND FLOOR PLAN

REVISIONS:
1- BLDG. DEPT. COMMENTS 02.15.2021
2- BLDG. DEPT. COMMENTS 04.15.2021





1 / 3.2 SECOND FLOOR ROOF PLAN

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

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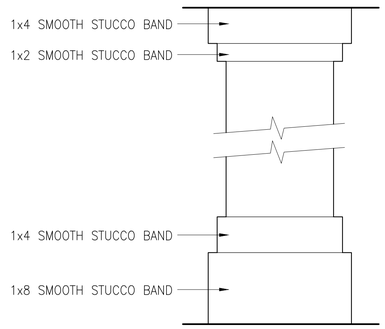
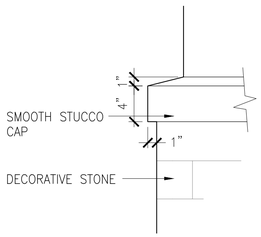
PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: SECOND FLOOR ROOF PLAN

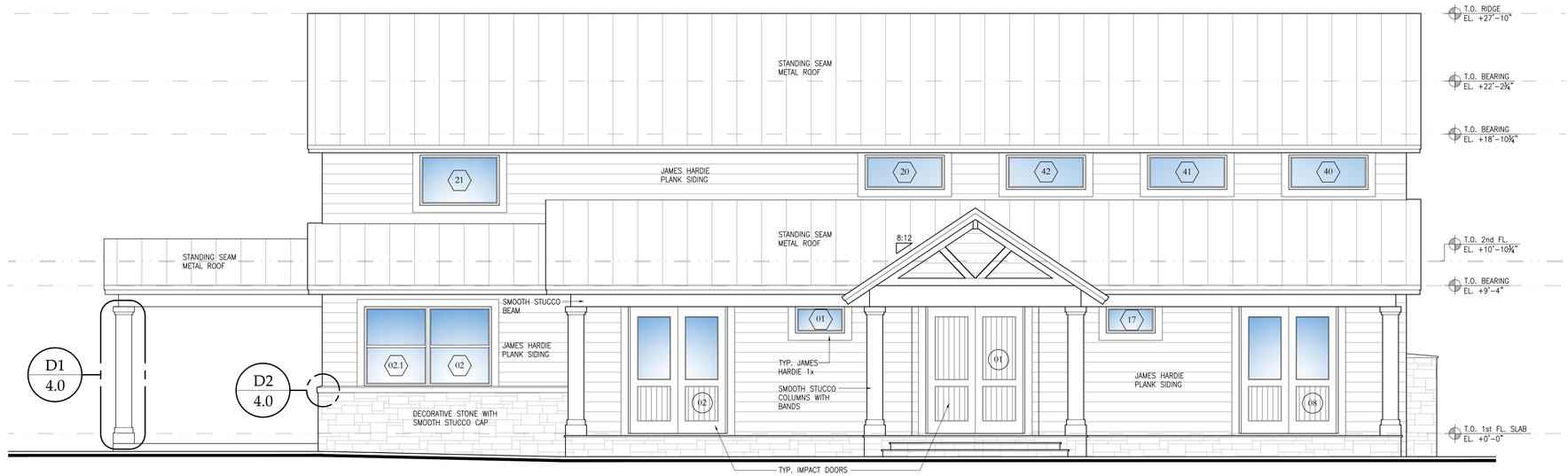
REVISIONS:
1- BLDG. DEPT. COMMENTS 02.15.2021
2- BLDG. DEPT. COMMENTS 04.15.2021



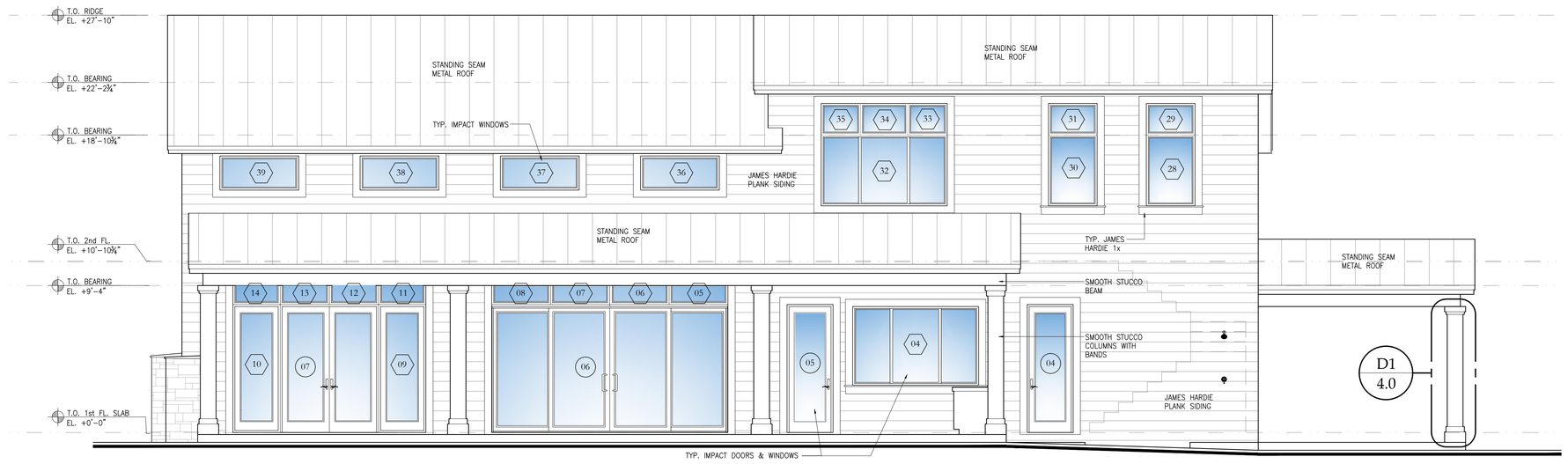
D1 / 4.0 **COLUMN DETAIL**
SCALE: 1 1/2" = 1'-0"



D2 / 4.0 **CAP DETAIL**
SCALE: 1 1/2" = 1'-0"



1 / 4.0 **MAIN HOUSE FRONT EXTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"



2 / 4.0 **MAIN HOUSE REAR EXTERIOR ELEVATION**
SCALE: 1/4" = 1'-0"

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Drafting and Design Services

PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: EXTERIOR ELEVATIONS

REVISIONS:
1- BLDG. DEPT. COMMENTS 02.15.2021
2- BLDG. DEPT. COMMENTS 04.15.2021

JOB NO. ES-20-012
DATE: 04.16.21
SHEET NO. 4.0

EXTERIOR DOOR SCHEDULE

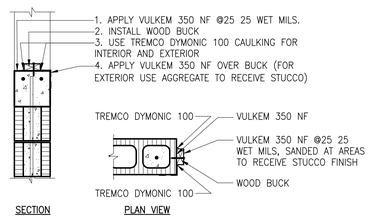
MARK	MATERIAL	UNIT SIZE	TYPE	MANUF.	GLAZING	REMARKS	POS.	NEG.
01	WOOD	(2)3'-0"x8'-0"	SC	–	NONE	2 T&G PANELS EA.	+28.9	-36.5
02	WOOD	(2)3'-0"x8'-0"	FRENCH	–	IMPACT	1 T&G PANEL BELOW, 1 LT. ABOVE EACH.	+28.9	-36.5
03	WOOD	3'-0"x8'-0"	FRENCH	–	IMPACT	1 T&G PANEL BELOW, 1 LT. ABOVE EACH. TEMP.	+30.4	-39.4
04	ALUMINUM	2'-8"x8'-0"	FRENCH	–	IMPACT	1 IMPACT GLASS PANEL	+30.4	-39.4
05	ALUMINUM	2'-8"x8'-0"	FRENCH	–	IMPACT	1 IMPACT GLASS PANEL	+30.4	-39.4
06	ALUMINUM	15'-0"x8'-0"	S.G.D.	–	IMPACT	1 IMPACT GLASS PANEL EA. (0XX0)	+26.6	-32.0
07	ALUMINUM	(2)3'-0"x8'-0"	FRENCH	–	IMPACT	1 IMPACT GLASS PANEL EA.	+27.1	-32.8
08	WOOD	(2)3'-0"x8'-0"	FRENCH	–	IMPACT	1 T&G PANEL BELOW, 1 LT. ABOVE EACH.	+28.9	-36.5
09	STEEL	9'-0"x8'-0"	O.H.D.	–	NONE	20 T&G PANELS, OR SIMILAR	+26.2	-32.5
10	STEEL	9'-0"x8'-0"	O.H.D.	–	NONE	20 T&G PANELS, OR SIMILAR	+26.2	-32.5
11	STEEL	9'-0"x8'-0"	O.H.D.	–	NONE	20 T&G PANELS, OR SIMILAR	+26.2	-32.5
12	ALUMINUM	8'-0"x8'-0"	S.G.D.	–	IMPACT	1 IMPACT GLASS PANEL EA. (X/X)	+26.4	-33.0

WINDOW SCHEDULE

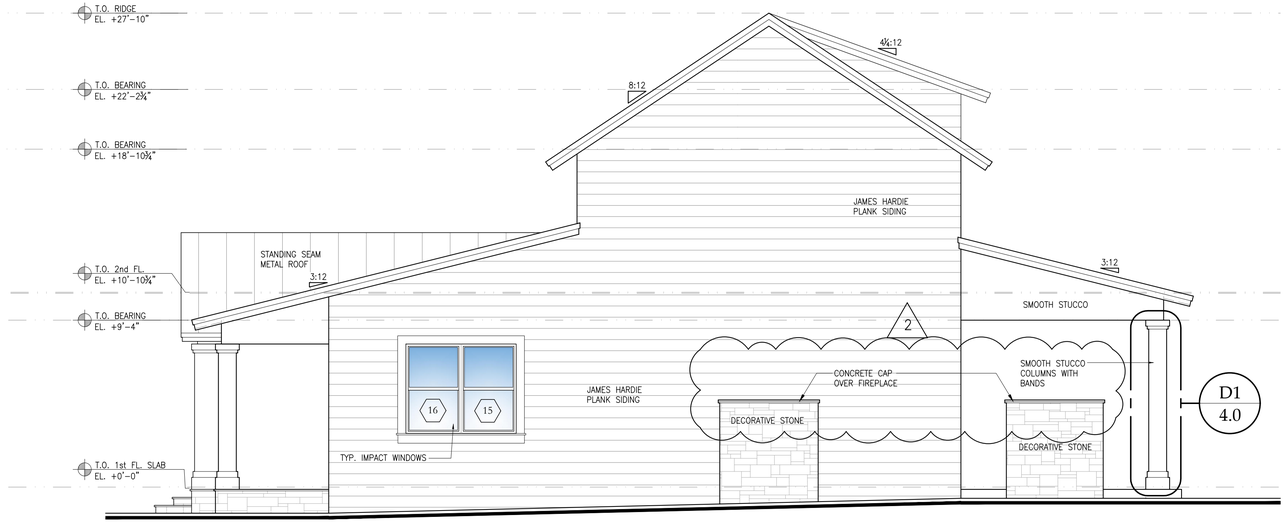
MARK	TYPE	MATERIAL	UNIT SIZE	MANUF.	GLAZING	REMARKS	POS.	NEG.
01	FIXED	VINYL	3'-1"x1'-8"	–	IMPACT	1 LITE	+32.2	-43.1
02	SH	VINYL	4'-0"x5'-0"	–	IMPACT	1/1 LITE	+30.7	-40.2
02.1	SH	VINYL	4'-0"x5'-0"	–	IMPACT	1/1 LITE	+30.7	-40.2
02.2	SH	VINYL	4'-0"x5'-0"	–	IMPACT	1/1 LITE	+30.7	-40.2
03	FIXED	VINYL	3'-1"x1'-8"	–	IMPACT	1 LITE. TEMPERED SAFETY GLASS PER FBCR308	+32.2	-43.1
04	SLIDER	VINYL	8'-0"x5'-0"	–	IMPACT	1/1/1 LITE, (XOX)	+29.3	-37.3
05	FIXED	VINYL	3'-9"x1'-10½"	–	IMPACT	1 LITE, TRANSOM	+26.6	-32.0
06	FIXED	VINYL	3'-9"x1'-10½"	–	IMPACT	1 LITE, TRANSOM	+26.6	-32.0
07	FIXED	VINYL	3'-9"x1'-10½"	–	IMPACT	1 LITE, TRANSOM	+26.6	-32.0
08	FIXED	VINYL	3'-9"x1'-10½"	–	IMPACT	1 LITE, TRANSOM	+26.6	-32.0
09	FIXED	VINYL	3'-0"x8'-0"	–	IMPACT	1 LITE, SIDELITE	+27.1	-32.8
10	FIXED	VINYL	3'-0"x8'-0"	–	IMPACT	1 LITE, SIDELITE	+27.1	-32.8
11	FIXED	VINYL	3'-0"x1'-10½"	–	IMPACT	1 LITE, TRANSOM	+27.1	-32.8
12	FIXED	VINYL	3'-0"x1'-10½"	–	IMPACT	1 LITE, TRANSOM	+27.1	-32.8
13	FIXED	VINYL	3'-0"x1'-10½"	–	IMPACT	1 LITE, TRANSOM	+27.1	-32.8
14	FIXED	VINYL	3'-0"x1'-10½"	–	IMPACT	1 LITE, TRANSOM	+27.1	-32.8
15	SH	VINYL	3'-1"x5'-0"	–	IMPACT	1/1 LITE, EGRESS	+29.8	-38.4
16	SH	VINYL	3'-1"x5'-0"	–	IMPACT	1/1 LITE, EGRESS	+29.8	-38.4
17	FIXED	VINYL	3'-1"x1'-8"	–	IMPACT	1 LITE	+32.2	-43.1
18	SH	VINYL	3'-1"x5'-0"	–	IMPACT	1/1 LITE	+27.8	-35.8
19	SH	VINYL	3'-1"x5'-0"	–	IMPACT	1/1 LITE	+27.8	-35.8
19.1	SH	VINYL	4'-0"x3'-0"	–	IMPACT	1/1 LITE	+29.7	-39.5
20	FIXED	VINYL	5'-0"x2'-2"	–	IMPACT	1 LITE	+32.0	-42.7
21	FIXED	VINYL	5'-0"x3'-2"	–	IMPACT	1 LITE. TEMPERED SAFETY GLASS PER FBCR308	+31.2	-41.1
22	SH	VINYL	3'-1"x3'-2"	–	IMPACT	1/1 LITE	+32.2	-43.1
23	SH	VINYL	2'-1"x3'-2"	–	IMPACT	1/1 LITE	+32.2	-43.1
24	FIXED	VINYL	3'-1"x4'-6"	–	IMPACT	1 LITE	+29.2	-37.2
25	FIXED	VINYL	3'-1"x4'-6"	–	IMPACT	1 LITE	+29.2	-37.2
26	FIXED	VINYL	3'-1"x2'-0"	–	IMPACT	1 LITE, TRANSOM	+29.2	-37.2
27	FIXED	VINYL	3'-1"x2'-0"	–	IMPACT	1 LITE, TRANSOM	+29.2	-37.2
28	FIXED	VINYL	3'-1"x4'-6"	–	IMPACT	1 LITE	+30.6	-40.0
29	FIXED	VINYL	3'-1"x2'-0"	–	IMPACT	1 LITE, TRANSOM	+30.6	-40.0
30	FIXED	VINYL	3'-1"x4'-6"	–	IMPACT	1 LITE	+30.6	-40.0
31	FIXED	VINYL	3'-1"x2'-0"	–	IMPACT	1 LITE, TRANSOM	+30.6	-40.0
32	SLIDER	VINYL	8'-0"x4'-6"	–	IMPACT	1/1/1 LITE, (XOX), EGRESS	+28.7	-26.1
33	FIXED	VINYL	2'-6"x2'-0"	–	IMPACT	1 LITE, TRANSOM	+28.7	-26.1
34	FIXED	VINYL	3'-0"x2'-0"	–	IMPACT	1 LITE, TRANSOM	+28.7	-26.1
35	FIXED	VINYL	2'-6"x2'-0"	–	IMPACT	1 LITE, TRANSOM	+28.7	-26.1
36	FIXED	VINYL	5'-0"x2'-2"	–	IMPACT	1 LITE	+32.0	-42.7
37	FIXED	VINYL	5'-0"x2'-2"	–	IMPACT	1 LITE	+32.0	-42.7
38	FIXED	VINYL	5'-0"x2'-2"	–	IMPACT	1 LITE	+32.0	-42.7
39	FIXED	VINYL	5'-0"x2'-2"	–	IMPACT	1 LITE	+32.0	-42.7
40	FIXED	VINYL	5'-0"x2'-2"	–	IMPACT	1 LITE	+32.0	-42.7
41	FIXED	VINYL	5'-0"x2'-2"	–	IMPACT	1 LITE	+32.0	-42.7
42	FIXED	VINYL	5'-0"x2'-2"	–	IMPACT	1 LITE	+32.0	-42.7

WINDOW & DOOR NOTES

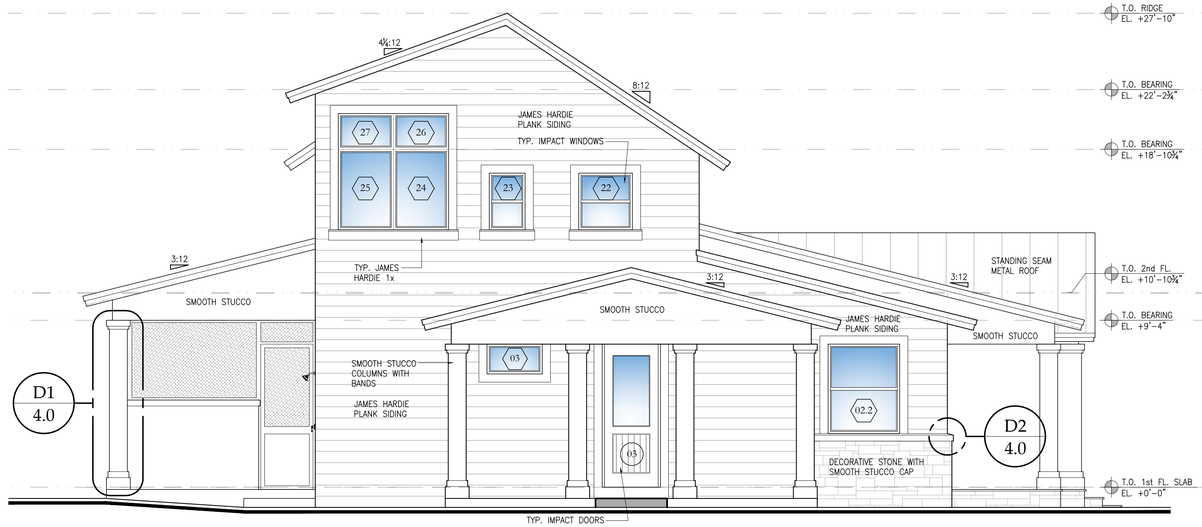
1. CONTRACTOR SHALL VERIFY NEW WINDOW AND DOOR OPENINGS BEFORE SHOP DRAWINGS ARE SUBMITTED TO ENGINEER OF RECORD.
2. CONTRACTOR TO SUBMIT WINDOW SHOP DRAWINGS TO ENGINEER FOR APPROVAL PRIOR TO MANUFACTURING DOORS.
3. ALL NEW WINDOWS AND DOORS SHALL BE IMPACT RESISTANT .
4. ALL UNITS TO BE CAULKED ON ALL SIDES .
5. ALL BEDROOM WINDOWS SHALL BE EGRESS WINDOWS, PER CODE.



WATER PROOFING FOR DOORS AND WINDOWS
PER TREMCO MFG. RECOMMENDATIONS



1 / 4.1 MAIN HOUSE RIGHT SIDE EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"



2 / 4.1 MAIN HOUSE LEFT SIDE EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

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CA CERT. #30782

JOB NO. ES-20-012
DATE: 04.16.21
SHEET NO. 4.1

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Drafting and Design Services

4-19-2021

CRAIG E. GUNDERSON P.E. LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Craig E. Gunderson P.E. 60102 Date: 2021.04.19 11:41:26 -04'00'

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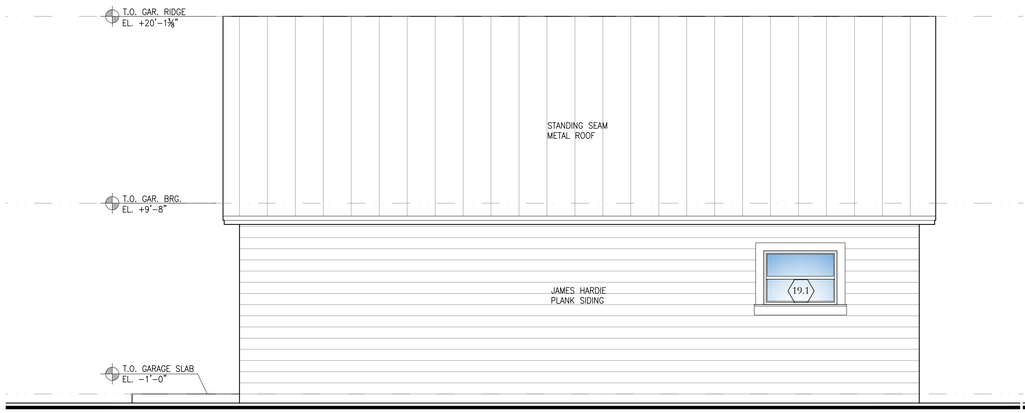
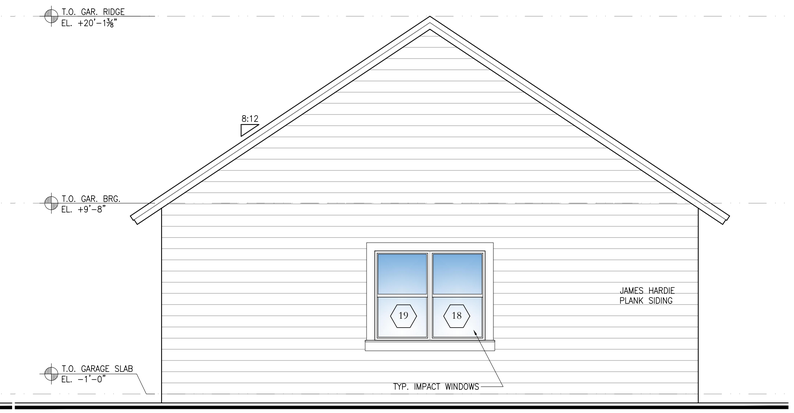
PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: EXTERIOR ELEVATIONS

REVISIONS:
1- BLDG. DEPT. COMMENTS 02.15.2021
2- BLDG. DEPT. COMMENTS 04.15.2021



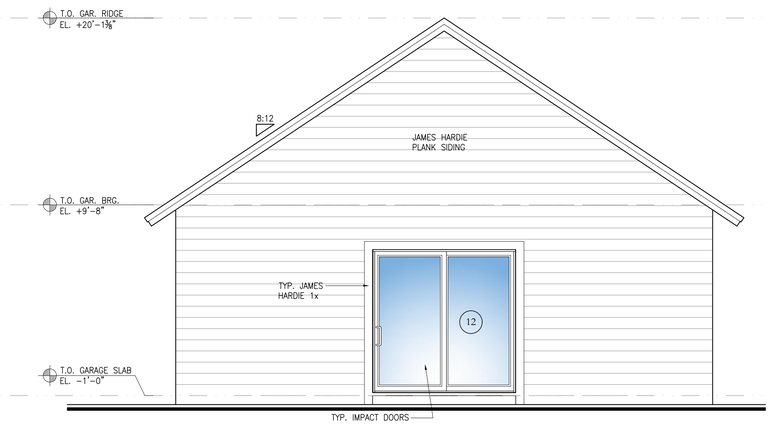
2 / 4.2 GARAGE RIGHT SIDE EXTERIOR ELEVATION

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



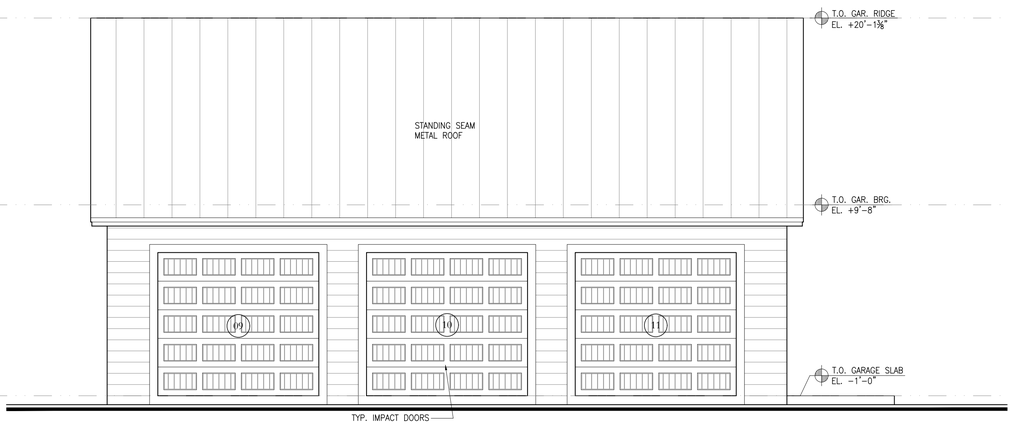
1 / 4.2 GARAGE FRONT EXTERIOR ELEVATION

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



4 / 4.2 GARAGE REAR EXTERIOR ELEVATION

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



3 / 4.2 GARAGE LEFT SIDE EXTERIOR ELEVATION

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

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expostudiosinc.com

ESI EXPO STUDIOS, INC.
Drafting and Design Services

GROVES RESIDENCE
26209 SW Jockeys Run, Okeechobee, FL 34974

PROJECT NAME:
ADDRESS:
SHEET TITLE: EXTERIOR ELEVATIONS

REVISIONS:
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2- BLDG. DEPT. COMMENTS 04.15.2021

JOB NO. ES-20-012
DATE: 04.16.21
SHEET NO. 4.2

BS1 / 5.0 BUILDING SECTION BS1
SCALE: 1/2" = 1'-0"

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JOB NO. ES-20-012
DATE: 04.16.21
SHEET NO. 5.0

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4-19-2021

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PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: BUILDING SECTION

REVISIONS:
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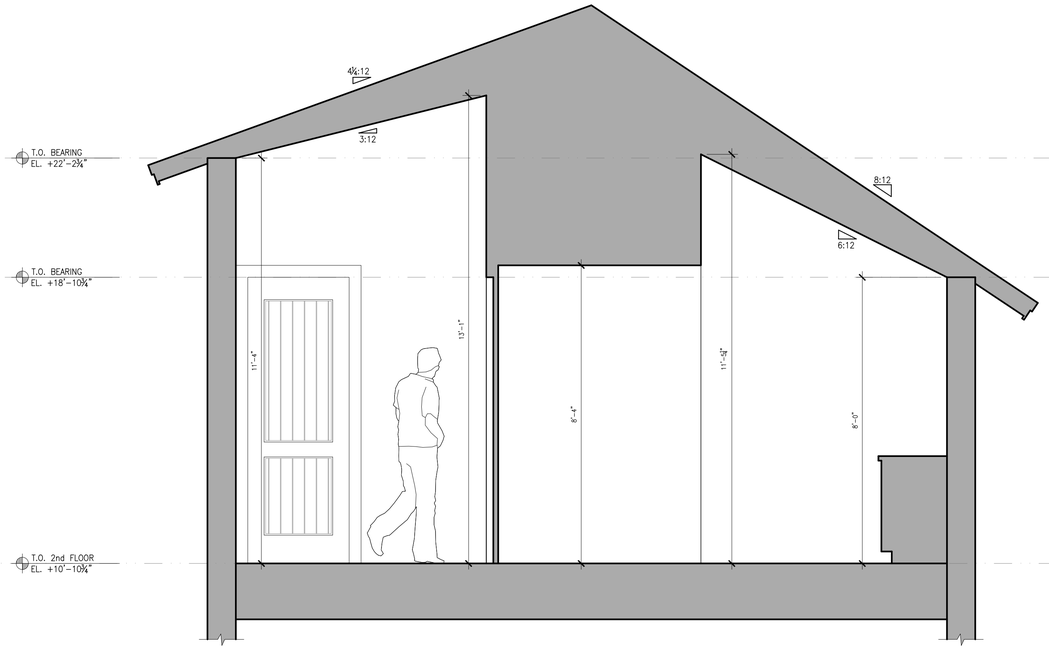

BS2 / 5.1 BUILDING SECTION BS2

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

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CRAIG E. GUNDERSON P.E. LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

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Date: 2021.04.19 11:42:13 -04'00'

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4-19-2021

PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
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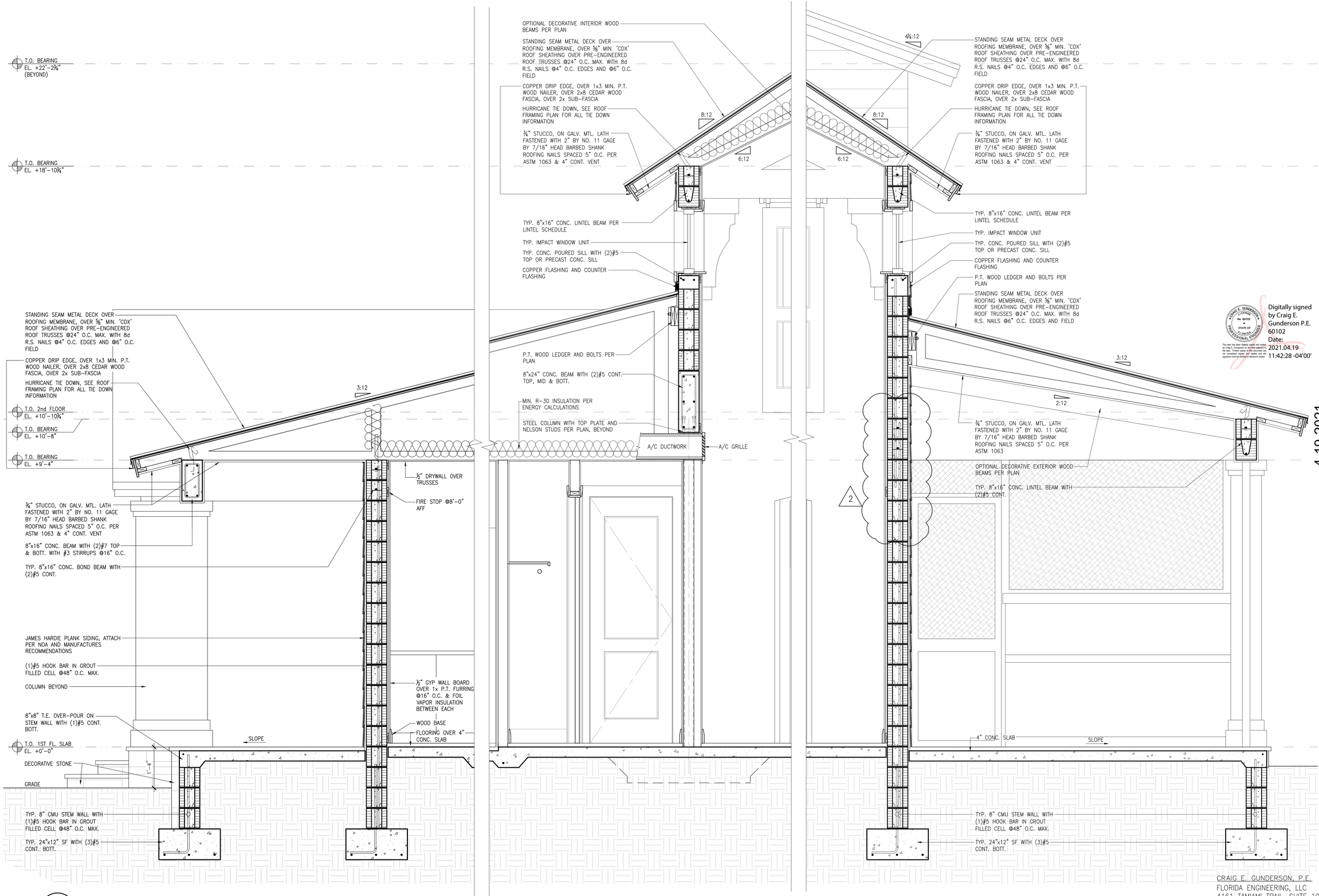

S1 / 6.0 WALL SECTION S1

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

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PROJECT NAME: GROVES RESIDENCE

ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974

SHEET TITLE: WALL SECTIONS

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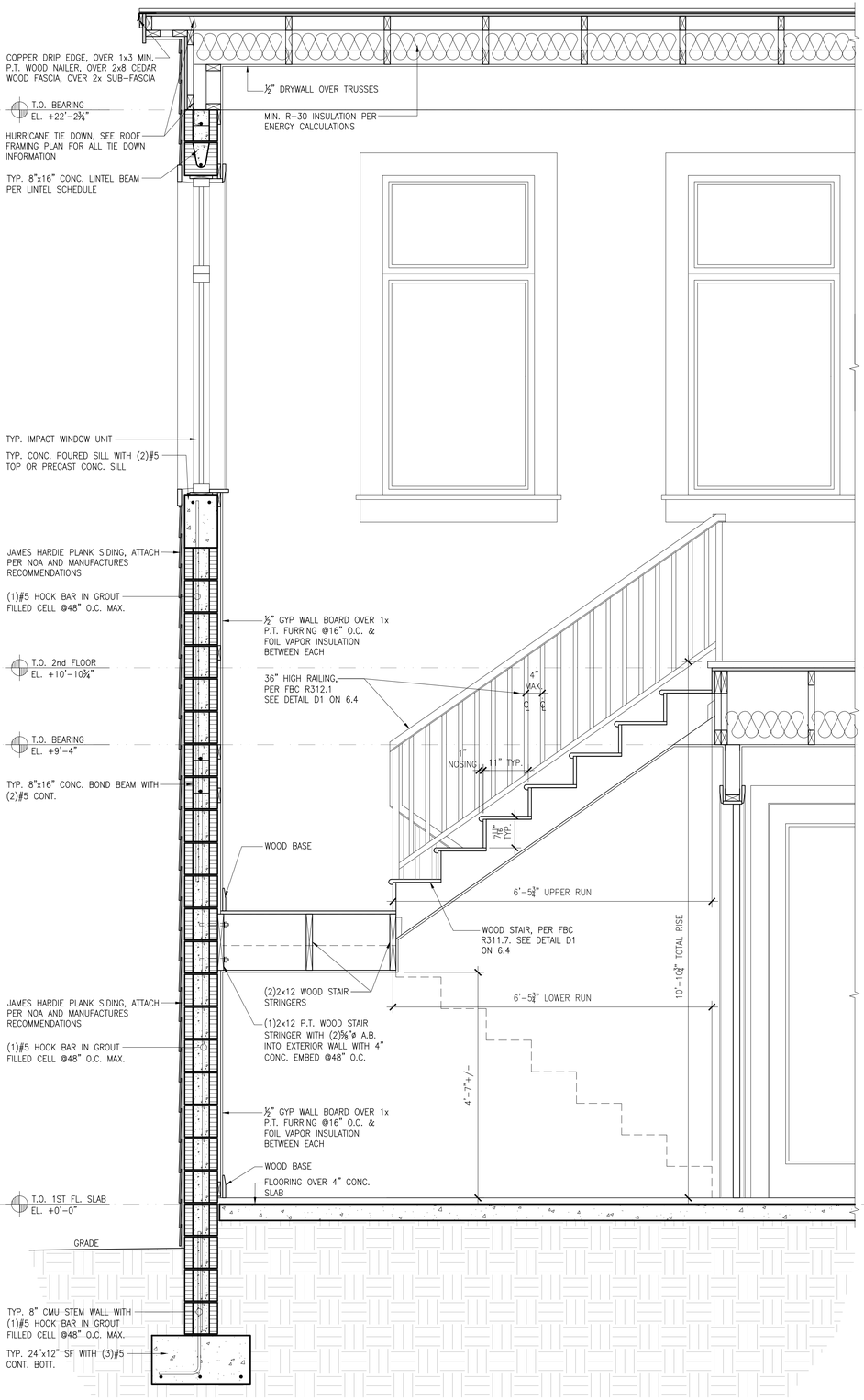
JOB NO. ES-20-012

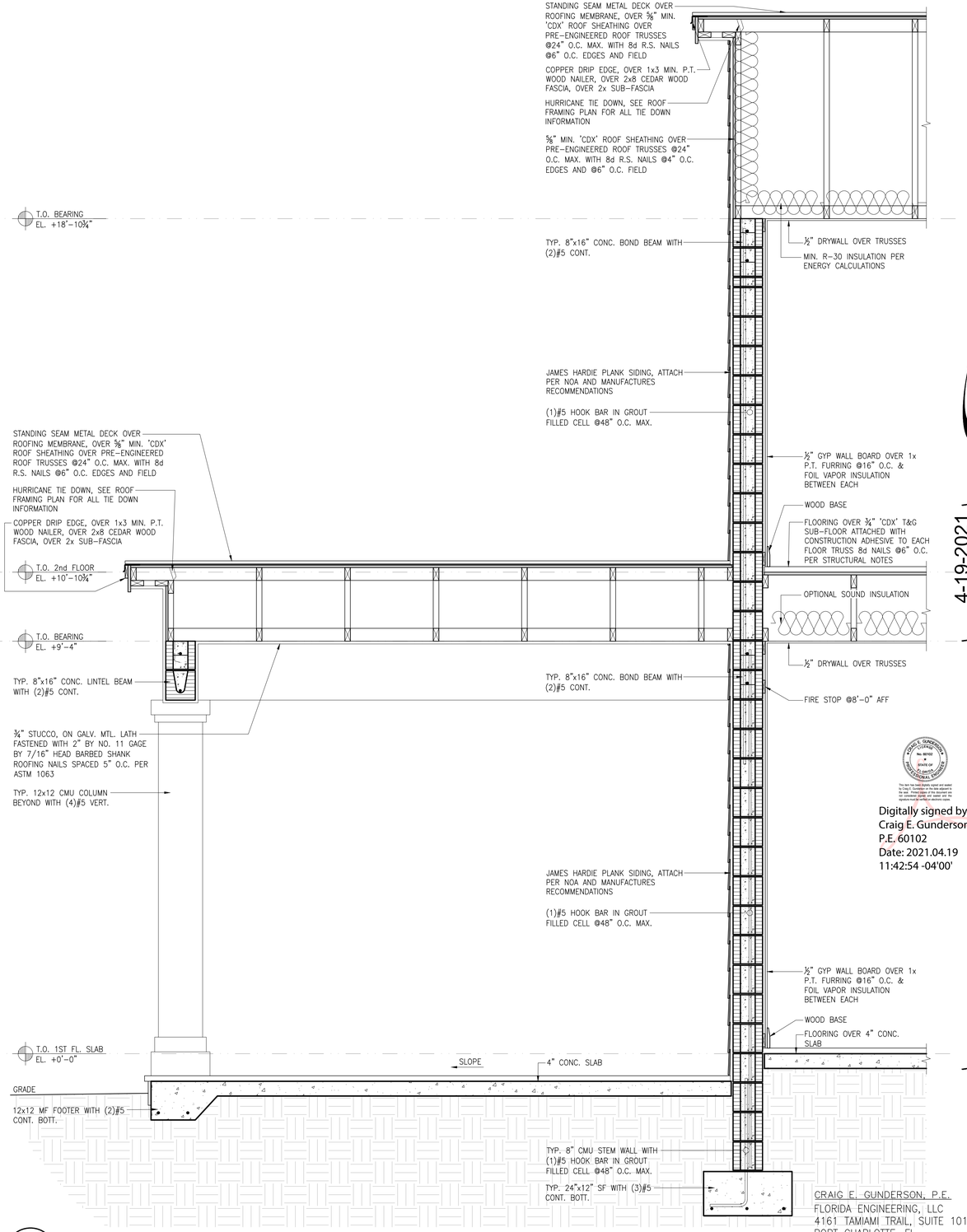
DATE: 04.16.21

SHEET NO. 6.0



S3 / 6.1 WALL SECTION S3

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



S2 / 6.1 WALL SECTION S2

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

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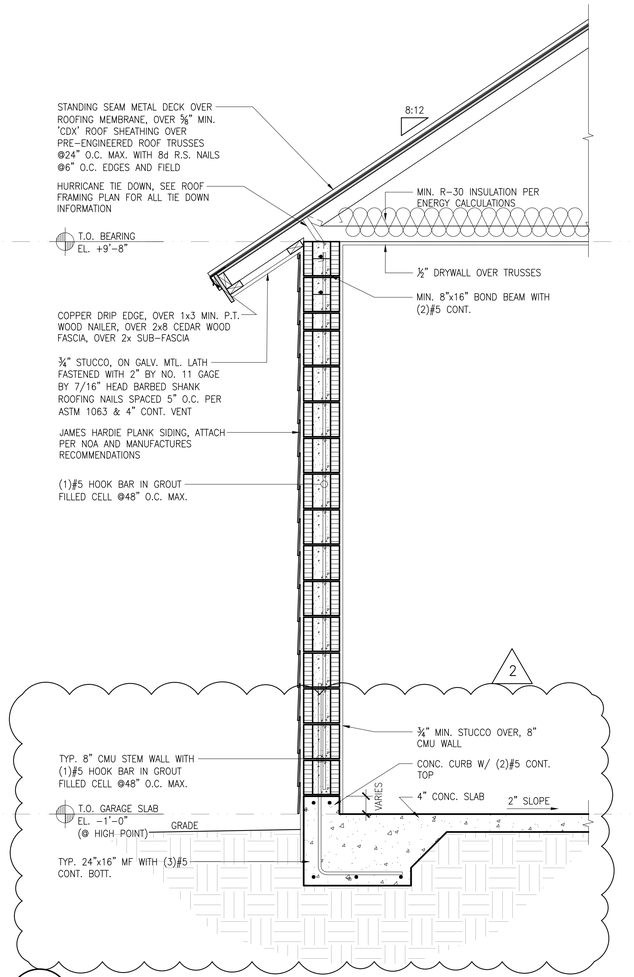
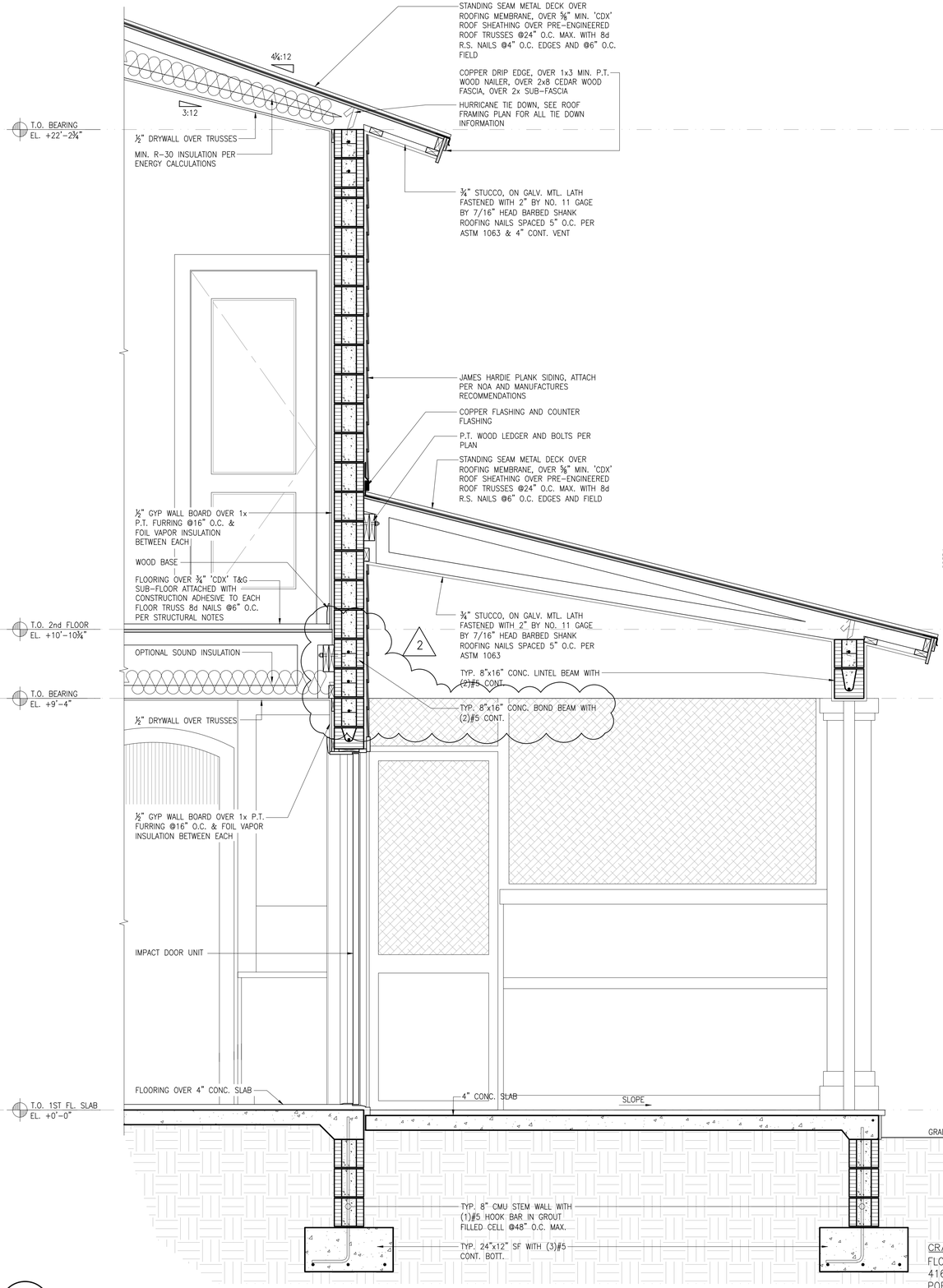
SHEET NO. 6.1



S5 6.2 WALL SECTION S5
SCALE: 3/4" = 1'-0"



S4 6.2 WALL SECTION S4
SCALE: 3/4" = 1'-0"

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PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: WALL SECTIONS

REVISIONS:
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JOB NO. ES-20-012
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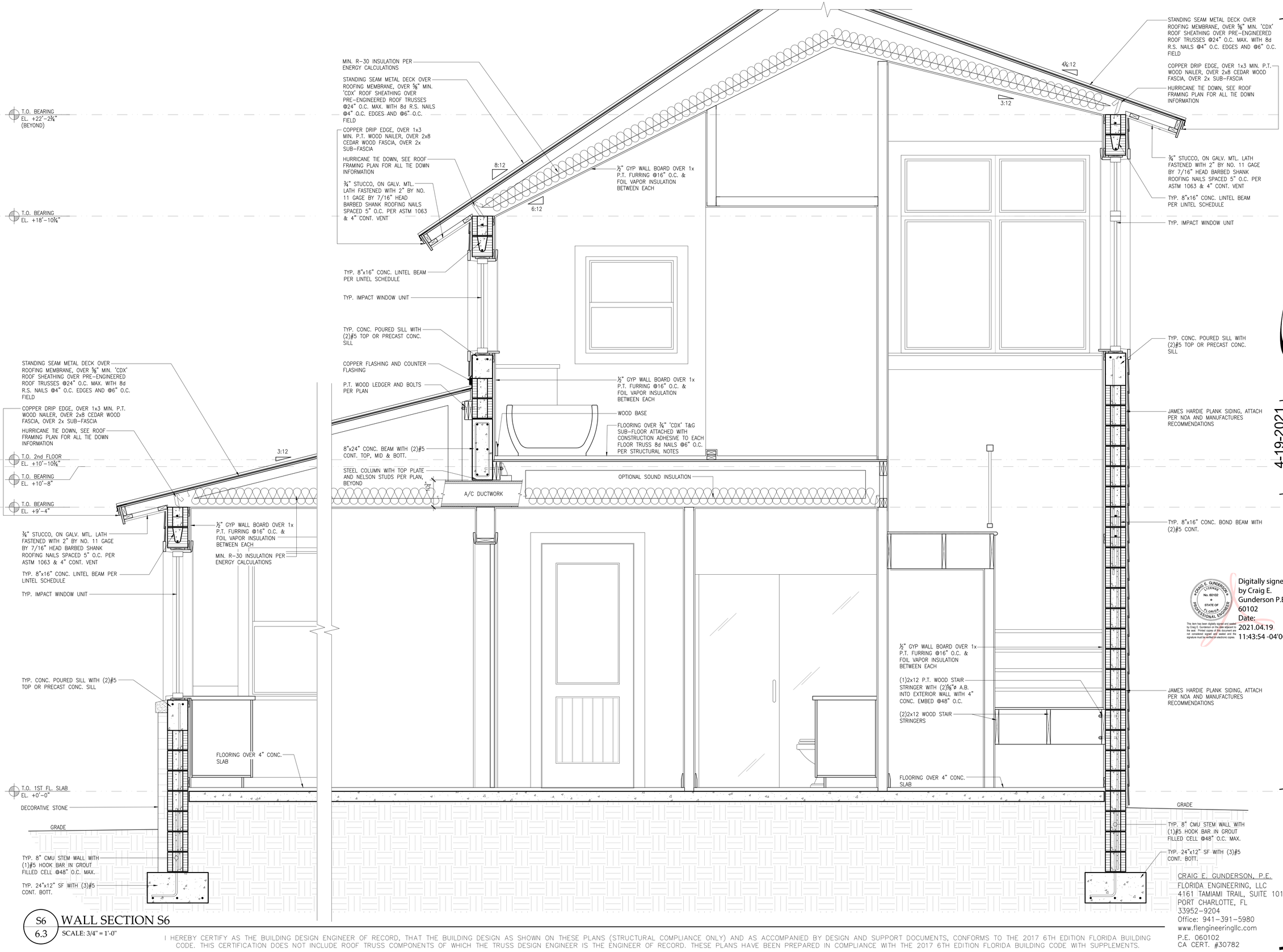
SHEET NO. 6.2



S6
6.3
WALL SECTION S6
SCALE: 3/4" = 1'-0"

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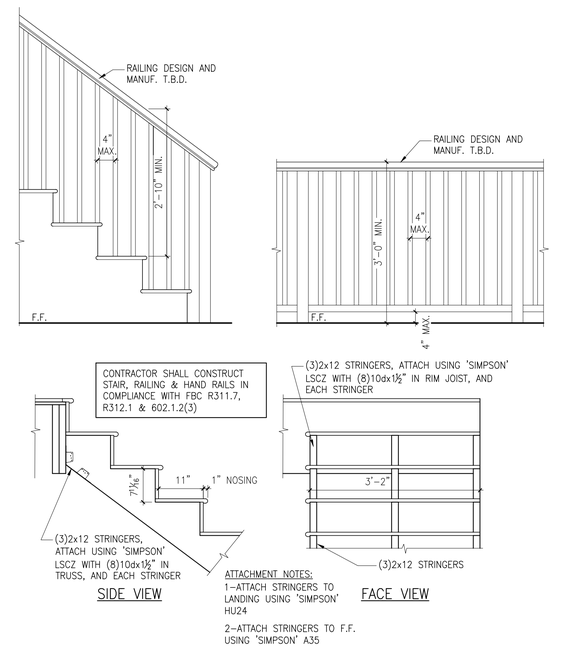
PRODUCT APPROVAL SCHEDULE

PRODUCT	MODEL NUMBER	MANUFACTURER	EVALUATION AGENCY	PRODUCT APPROVAL #	EXPIRATION DATE
WINDOWS	AW-5540	PGT INDUSTRIES	MIAMI-DADE BCCO	FL2766-R15	09.24.2025
	PW-5520	PGT INDUSTRIES	MIAMI-DADE BCCO	FL243-R24	04.30.2025
	SH-7700A	PGT INDUSTRIES	MIAMI-DADE BCCO	20-0401.11	08.23.2023
	MULLIONS	PGT INDUSTRIES	MIAMI-DADE BCCO	FL261-R12	05.26.2026
EXIT DOORS	DBL. FRONT ENTRY DOOR W/ SIDELIGHTS	THERMA-TRU CO.	LYNDON F. SCHMIDT, P.E.	FL20470-R2	12.31.2021
	SGD-770	PGT INDUSTRIES	MIAMI-DADE BCCO	FL251-R32	02.17.2025
	FIBERGLASS DOOR	THERMA-TRU CO.	LYNDON F. SCHMIDT, P.E.	FL20470-R2	12.31.2021
GARAGE DOORS	2400	AMARR	THOMAS L. SHELMERDINE	FL14657.2	01.01.2027
RIDGE VENTS/OFF-RIDGE VENTS	N/A				
SOFFITS	N/A				
SKYLIGHTS	N/A				
ROOFING	26ga. SNAPMAX	EXTREME METAL FABRICATORS, LLC	KEYSTONE CERTIFICATIONS, INC.	FL25621.1-R1	04.22.2024
ROOFING UNDERLAYMENT	ROOF UNDERLAYMENT	OWENS CORNING	ROBERT J. M. NIEMINEN	FL11602-R11	12.31.2023
PANEL WALLS	N/A				
STRUCTURAL COMPONENTS & CLADDING	N/A				
NEW/ALTERNATIVE MATERIALS	N/A				

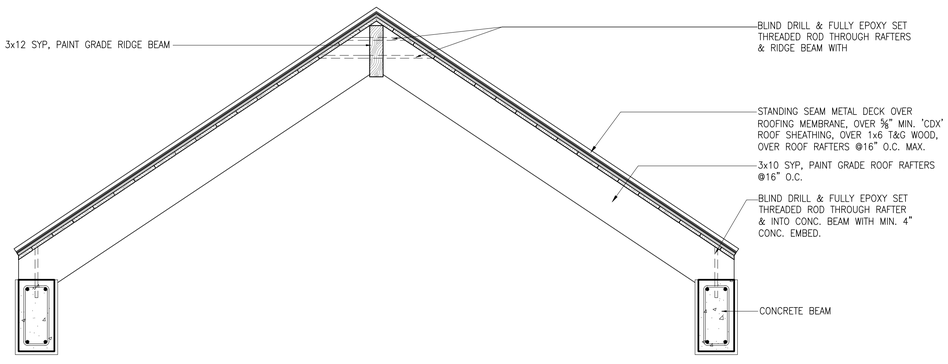
THE ABOVE SCHEDULE IS FOR BUILDING DEPARTMENT USE, AND FOR REFERENCE ONLY. CONTRACTOR SHALL USE ACTUAL NOA CUT SHEETS FOR ALL ATTACHMENT METHODS, SIZES, SPACING, EMBEDMENT, ETC. INFORMATION ABOVE IS SUBJECT TO CHANGE. SEE MANUFACTURER'S CUT SHEETS AND NOA FOR SPECIALTY ENGINEER'S DESIGNS. PROJECT ENGINEER OF RECORD DOES NOT CERTIFY THESE DESIGNS

2

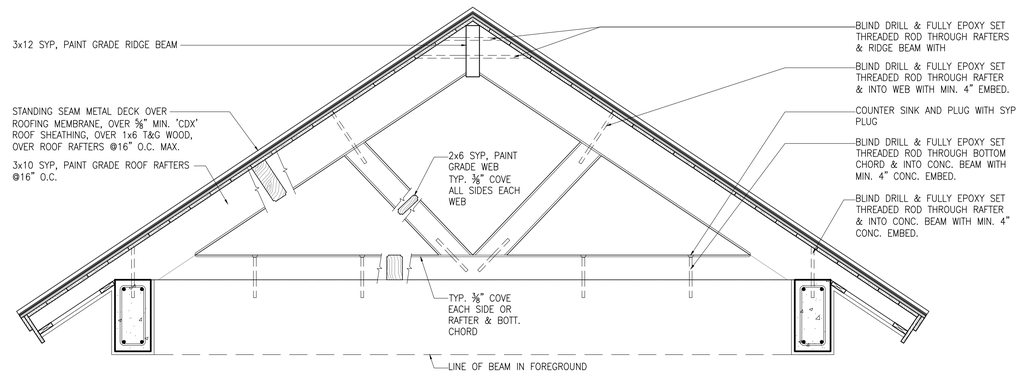


D1 / 6.4 STANDARD STAIR & RAILING DETAILS

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



INTERIOR RAFTER DESIGN



FACADE RAFTER DESIGN

S7 / 6.4 WALL SECTION S7

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

I HEREBY CERTIFY AS THE BUILDING DESIGN ENGINEER OF RECORD, THAT THE BUILDING DESIGN AS SHOWN ON THESE PLANS (STRUCTURAL COMPLIANCE ONLY) AND AS ACCOMPANIED BY DESIGN AND SUPPORT DOCUMENTS, CONFORMS TO THE 2017 6TH EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION DOES NOT INCLUDE ROOF TRUSS COMPONENTS OF WHICH THE TRUSS DESIGN ENGINEER IS THE ENGINEER OF RECORD. THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2017 6TH EDITION FLORIDA BUILDING CODE WITH SUPPLEMENTS.

CRAIG E. GUNDERSON, P.E.
FLORIDA ENGINEERING, LLC
4161 TAMIAMI TRAIL, SUITE 101
PORT CHARLOTTE, FL
33952-9204
Office: 941-391-5980
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P.E. 060102
CA CERT. #30782

CRAIG E. GUNDERSON P.E. LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Craig E. Gunderson P.E. 60102
Date: 2021.04.19 11:44:17 -04'00'

This item has been digitally signed and sealed by Craig E. Gunderson on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on electronic copies.

DESIGN
"The perfect fit - in design"
4285 SW Martin Highway, Palm City, FL 34990
Cell: 772.233.9936.
Email: info@expostudiosinc.com
expostudiosinc.com
ESI
EXPO STUDIOS, INC.
Drafting and Design Services

4-19-2021

CRAIG E. GUNDERSON LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

GROVES RESIDENCE

PROJECT NAME:

26209 SW Jockeys Run, Okeechobee, FL 34974

ADDRESS:

WALL SECTIONS

SHEET TITLE:

REVISIONS:
1- BLDG. DEPT. COMMENTS 02.15.2021
2- BLDG. DEPT. COMMENTS 04.15.2021

JOB NO. ES-20-012

DATE: 04.16.21

SHEET NO. 6.4

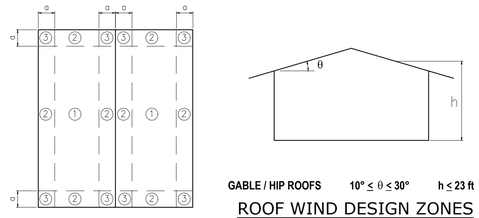
DESIGN PARAMETERS FOR WIND LOAD COMPLIANCE, MAIN HOUSE

1. BUILDING CATEGORY II
2. FLORIDA BUILDING CODE 2017, 6TH EDITION & ASCE 7
3. BUILDING DESIGN IS ENCLOSED
4. MEAN ROOF HEIGHT IS 23'
5. ROOF PITCH 8/12
6. INTERNAL PRESSURE COEFFICIENT +/- 0.18
7. WIDTH OF END ZONE A = 3.0'
8. WIND SPEED: (Vult) 150 MPH 3-SECOND GUST
   (Vasd) 116.2 MPH 3-SECOND GUST
9. WIND EXPOSURE CLASSIFICATION: C
10. SHEAR WALLS WERE CONSIDERED
11. A CONTINUOUS LOAD PATH WAS PROVIDED
12. COMPONENT & CLADDING DETAILED
13. MINIMUM SOIL BEARING PRESSURE IS 2000 PSF PRESUMPTIVE
    (SEE ENGINEERING & TESTING SOIL REPORT)

COMPONENT & CLADDING PRESSURES
ASCE 7-10 (150 MPH - EXP. 'C'- Vasd)
ROOF SLOPES 8/12 (HEIGHT < 23')

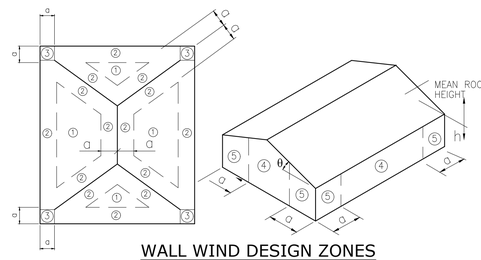
ZONE		EFFECTIVE AREA (SQ. FT.)									
		0 < 10		11 < 20		21 < 50		51 < 100		101 < 500	
ROOF	1	+ 29.5	- 32.2	+ 28.6	-30.6	+27.6	-28.4	+26.7	-26.7		
	2	+ 29.5	- 37.7	+ 28.6	-36.0	+27.6	-33.8	+26.7	-32.2		
	3	+ 29.5	- 37.7	+ 28.6	-36.0	+27.6	-33.8	+26.7	-32.2		
WALL	4	+ 32.2	- 34.9	+ 30.7	-33.5	+28.8	-31.6	+26.8	-29.5	+24.0	-26.7
	5	+ 32.2	- 43.1	+ 30.7	-40.2	+28.8	-36.4	+26.8	-32.3	+24.0	-26.7

END ZONE 5 WITHIN A DISTANCE OF 3.0' FROM BUILDING/ROOF CORNERS = (a)



GABLE / HIP ROOFS **10° ≤ θ ≤ 30°** **h ≤ 23 ft**

ROOF WIND DESIGN ZONES
SCALE: NTS



WALL WIND DESIGN ZONES
NTS

DESIGN PARAMETERS FOR WIND LOAD COMPLIANCE, GARAGE

1. BUILDING CATEGORY II
2. FLORIDA BUILDING CODE 2017, 6TH EDITION & ASCE 7
3. BUILDING DESIGN IS ENCLOSED
4. MEAN ROOF HEIGHT IS 16.5'
5. ROOF PITCH 8/12
6. INTERNAL PRESSURE COEFFICIENT +/- 0.18
7. WIDTH OF END ZONE A = 3.0'
8. WIND SPEED: (Vult) 150 MPH 3-SECOND GUST
   (Vasd) 116.2 MPH 3-SECOND GUST
9. WIND EXPOSURE CLASSIFICATION: C
10. SHEAR WALLS WERE CONSIDERED
11. A CONTINUOUS LOAD PATH WAS PROVIDED
12. COMPONENT & CLADDING DETAILED
13. MINIMUM SOIL BEARING PRESSURE IS 2000 PSF PRESUMPTIVE
    (SEE ENGINEERING & TESTING SOIL REPORT)

COMPONENT & CLADDING PRESSURES
ASCE 7-10 (150 MPH - EXP. 'C'- Vasd)
ROOF SLOPES 8/12 (HEIGHT < 16.5')

ZONE		EFFECTIVE AREA (SQ. FT.)									
		0 < 10		11 < 20		21 < 50		51 < 100		101 < 500	
ROOF	1	+ 27.5	- 30.0	+ 26.7	-28.5	+25.7	-26.5	+24.9	-24.9		
	2	+ 27.5	- 35.1	+ 26.7	-33.6	+25.7	-31.6	+24.9	-30.0		
	3	+ 27.5	- 35.1	+ 26.7	-33.6	+25.7	-31.6	+24.9	-30.0		
WALL	4	+ 30.0	- 32.6	+ 28.7	-31.2	+26.9	-29.4	+25.0	-27.5	+22.4	-24.9
	5	+ 30.0	- 40.2	+ 28.7	-37.5	+26.9	-33.9	+25.0	-30.1	+22.4	-24.9

END ZONE 5 WITHIN A DISTANCE OF 3.0' FROM BUILDING/ROOF CORNERS = (a)

MASONRY GENERAL NOTES:

1. MASONRY WALLS ARE TO BE OF THE SIZES AND IN THE LOCATIONS SHOWN ON THE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROVISIONS OF ACI 530. THE CONTRACTOR IS TO BE RESPONSIBLE FOR THE LOCATION OF REINFORCING, OPENINGS, CHASES, BEAMS, LINTELS ETC., REGARDLESS OF WHETHER THEY ARE SHOWN ON THE PLANS OR NOT. THE CONTRACTOR IS TO COORDINATE THE MASONRY WORK WITH THE OTHER TRADES INVOLVED IN THE PROJECT.
2. HOLLOW LOAD BEARING UNITS: ASTM C90 MADE WITH LIGHTWEIGHT OR NORMAL WEIGHT AGGREGATES, GRADE N-I UNITS SHALL BE PROVIDED FOR EXTERIOR AND FOUNDATION WALLS. GRADE N-I OR S-I UNITS SHALL BE PROVIDED FOR OTHER LOAD BEARING WALLS OR PARTITIONS.
3. CONCRETE BUILDING BRICK: ASTM C55 MADE WITH LIGHTWEIGHT OR NORMAL WEIGHT AGGREGATES, GRADE N-I OR S-I EXCEPT THAT BRICK EXPOSED TO WEATHER SHALL BE N-I.
4. SPECIAL SHAPES: CLOSURES, HEADER UNITS, JAMB UNITS AND THE LIKE SHALL BE PROVIDED AS NECESSARY TO COMPLETE THE WORK AND SHALL CONFORM TO THE APPLICABLE PORTIONS OF THE SPECIFICATIONS FOR THE UNITS WITH WHICH THEY ARE USE.
5. MORTAR: ASTM C270-95, TYPE S PREPACKAGED MORTAR MIX WHICH SHALL NOT CONTAIN ANY NONCEMENTITIOUS FILLERS COMBINED WITH NOT MORE THAN THREE PARTS SAND PER ONE PART MIX.
6. REINFORCING STEEL: ASTM A615 GRADE 60 STEEL DEFORMED BARS WHERE INDICATED ON THE PLANS. WHERE REINFORCING BARS ARE INSTALLED IN THE CELLS OF CONCRETE MASONRY UNITS, THEY SHALL BE SECURED WITH WIRE TIES AT INTERVALS NOT EXCEEDING 24" C/C TO MAINTAIN THE BARS LOCATION IN THE CELL.
7. HORIZONTAL JOINT REINFORCEMENT: ASTM A82 FABRICATED FROM COLD DRAWN STEEL WIRE AND HOT DIP ZINC COATED (ASTM A153). IT SHALL CONSIST OF TWO OR MORE PARALLEL, LONGITUDINAL WIRES .1875" DIA. WITH WELD CONNECTED CROSS WIRES .1483" DIA. AT MINIMUM 16" C/C. JOINT REINFORCEMENT IS TO BE INSTALLED IN EVERY OTHER COURSE AND IN THE FIRST TWO COURSES AT THE BOTTOM AND TOP OF WALL OPENINGS AND SHALL EXTEND NOT LESS THAN 24 IN. PAST THE OPENING. SPLICES SHALL OVERLAP NOT LESS THAN 12".
8. EXECUTION: MASONRY UNITS SHALL BE LAID IN A RUNNING BOND PATTERN UNLESS NOTED OTHERWISE. THE WALLS SHALL BE CARRIED UP LEVEL AND PLUMB WITHIN THE TOLERANCES SPECIFIED IN ACI 530.1-88, SECTION 2.3.3.2. IF NONSTANDARD DIMENSIONS ARE ENCOUNTERED, BLOCK SHALL BE CUT WITH A MASONRY SAW TO FIT, NOT BY STRETCHING OR SHRINKING JOINTS. UNFINISHED WORK SHALL BE STEPPED BACK FOR JOINING WITH NEW WORK. TOOTHING WILL NOT BE PERMITTED EXCEPT WHERE SPECIFICALLY APPROVED. DAMAGED UNITS ARE TO BE CUT OUT AND NEW UNITS SET IN PLACE.
9. THE FILLED CELLS AND BOND BEAM BLOCKS OF REINFORCED MASONRY WALLS ARE TO BE FILLED WITH ASTM C476-91, GROUT FOR MASONRY WITH MINIMUM COMPRESSIVE STRESS OF 2000 PSI. AND SLUMP RANGE 8"-11". THE OUTSIDE FACE OF THE BOTTOM BLOCK OF EACH CELL IS TO BE BROKEN OUT FOR INSPECTION OF REINFORCING AND CLEANOUT OF MORTAR DROPPINGS IN CELL. THE GROUT IS TO BE PUMPED INTO THE CELL IN MAXIMUM FIVE FOOT LIFTS AND IMMEDIATELY VIBRATED TO MINIMIZE ANY VOIDING OF THE GROUT. RECONSOLIDATE EACH LIFT BY VIBRATING SEVERAL INCHES INTO THE PRECEDING LIFT BEFORE PLASTICITY IS LOST. RECONSOLIDATE THE TOP LIFT AND FILL WITH GROUT ANY SPACE LEFT BY SETTLEMENT SHRINKAGE.
10. CONTRACTOR TO VERIFY THAT ALL MASONRY OPENINGS MATCH FINAL DOOR AND WINDOW SELECTION PRIOR TO LAYOUT OF PILASTERS AND SHALL NOTIFY ENGINEER OF RECORD IF PILASTER(S) NEED TO BE ADJUSTED BY MORE THAN 6" FROM LOCATION(S) SHOWN ON PLANS.

STEEL GENERAL NOTES:

1. ALL STRUCTURAL AND MISCELLANEOUS STEEL ITEMS SHALL MEET ASTM A36. ALL DETAILING, FABRICATION AND ERECTION SHALL MEET AISC SPECIFICATIONS INCLUDING COMMENTARIES AND SUPPLEMENTS. SHOP PAINT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS EXCEPT WHERE ENCASED IN CONCRETE.
2. BOLTED FIELD CONNECTIONS SHALL BE MADE WITH ASTM A325 BOLTS USING "TURN-OF-NUT" TIGHTENING METHOD. ANCHOR BOLTS EMBEDDED IN CONCRETE SHALL BE ASTM A307 WITH STANDARD HOOKS. TOUCH BARE OR ABRADED SPOTS AFTER ERECTION WITH SHOP PAINT. ALL WELDS SHALL BE MADE BY OPERATORS WHO ARE CERTIFIED BY A.W.S. TO PERFORM THE TYPE OF WORK REQUIRED.
3. ALL DESIGN, FABRICATION AND ERECTION OF STEEL JOISTS SHALL MEET THE STANDARD OF THE STEEL JOIST INSTITUTE. UPWARD CONVEX CAMBER SHALL BE PROVIDED AT MANUFACTURER'S OPTION IN ACCORDANCE WITH S.J.I. ENDS OF JOIST RESTING ON STEEL SUPPORTS SHALL BE CONNECTED THERETO WITH AT LEAST 2" OF 3/16" FILLET WELD EACH SIDE OF BEARING. JOISTS BEARING ON MASONRY OR CONCRETE SHALL BE CONNECTED THERE TO WITH (2)3/4"ø EPOXY SET BOLTS EMBED 4 1/2" OR AS OTHERWISE DETAILED ON DRAWINGS. PROVIDE A MINIMUM OF 8" OF SOLID MASONRY UNDER THE ENDS OF JOISTS WHERE APPLICABLE.
4. METAL ROOF DECK SHOWN ON THE DRAWINGS SHALL BE 1 1/2" TYPE B, COATED, 22 GAUGE STEEL DECK UNLESS NOTED OTHERWISE PROVIDE ALL ACCESSORIES REQUIRED FOR A COMPLETE INSTALLATION. DECK SHALL BE ANCHORED BY WELDING THROUGH BOTTOM RIB TO ALL STRUCTURAL SUPPORTS; SPACING OF WELDS NOT TO EXCEED 15".
5. STRUCTURAL STEEL SUPPLIERS SHALL PROVIDE ALL HOLES IN BEAMS, PLATES, LINTELS, ETC., AS REQUIRED BY OTHER TRADES.
6. BEAMS AND LINTELS OVER 7'-0" SHALL BE PROVIDED WITH A MINIMUM OF 16" SOLID MASONRY UNDER SUPPORTED END, WHERE APPLICABLE. BEAMS AND LINTELS UNDER 7'-0" LONG SHALL BE PROVIDED WITH A MINIMUM OF 8" SOLID MASONRY UNDER SUPPORTED END, WHERE APPLICABLE.
7. STRUCTURAL STEEL SUPPLIER SHALL FURNISH ALL FRAMING FOR ROOF OPENINGS AND/OR MECHANICAL EQUIPMENT SUPPORT.
8. MASONRY SHOWN ON STEEL DETAILS IN SHOWN ONLY TO CLARIFY STEEL POSITIONS AND IS NOT TO BE CONSTRUED AS CORRECT. REFER TO ARCHITECTURAL SECTIONS AND DETAILS FOR ACTUAL MASONRY TYPES AND LOCATIONS.

CONCRETE GENERAL NOTES:

1. EXCEPT WHERE OTHERWISE NOTED, CAST IN PLACE CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES.

LOCATION	MINIMUM COMPRESSIVE STRENGTH	MAXIMUM W/C RATIO
FOOTINGS:	4000PSI	0.48
SLAB ON GRADE:	4000PSI	0.48
GRADE BEAMS:	4000PSI	0.48
BEAMS & DECK:	4000PSI	0.45
COLUMNS:		
SECOND FLOOR SLAB:	4000PSI	0.40
REINFORCED WALLS:	4000PSI	0.45
BOND BEAM/LINTEL:	3500PSI	0.48

FOR ALL CONCRETE, THE PROPORTIONS OF CEMENT, AGGREGATE, AND WATER TO ATTAIN REQUIRED PLASTICITY AND COMPRESSIVE STRENGTH SHALL BE IN ACCORDANCE WITH ACI 318 CODE. CONCRETE SHALL CONTAIN SIX PERCENT, PLUS OR MINUS ONE, (6%+/-1) ENTRAINED AIR THROUGH THE USE OF AIR ENTRAINED CONCRETE OR AN AIR ENTRAINING ADMIXTURE CONFORMING TO ASTM C20. SLUMPS FOR VARIOUS KINDS OF CONSTRUCTION SHALL BE AS FOLLOWS:

LOCATION	MAXIMUM	MINIMUM
FOOTINGS	3"	2"
COLUMNS, BEAMS, & DECKS	4"	3"
WALLS	4"	3"
BOND BEAM/LINTEL	4"	3"

2. CONCRETE EXPOSED TO AIRBORNE SALTS

CONCRETE EXPOSED TO AIRBORNE SALTS SHALL HAVE MAXIMUM WATER/CEMENT RATIO OF 0.40.

* AS AN ALTERNATE TO THE .40 W/C RATIO, THE CONCRETE EXPOSED TO AIR OR WATER BORNE SALTS IS TO BE TREATED WITH A NON-ORGANIC FORMULATION OF CHEMICALLY REACTIVE SILICATES. THIS FORMULATION IS TO BE PHYSICALLY INJECTED INTO THE SLAB USING PRESSURE TO PROVIDE CORROSION INHIBITION, BUFFER PH, REDUCE POROSITY AND IMPROVE MECHANICAL PROPERTIES. AT ENGINEER'S OPTION, FORMULATION MAY INCLUDE SURFACTANTS TO ALLOW TOPICAL APPLICATION AND MIGRATION.

HIGH RANGE WATER REDUCING (HRWR) ADMIXTURE SUCH AS "ADVA" BY W.R. GRACE & CO. SHALL BE USED FOR WORKABILITY. SLUMP RANGE AFTER ADDITION OF HRWR SHALL BE 5-8 INCHES. NO WATER MAY BE ADDED ON SITE.

3. EXCEPT AS SPECIFIED OTHERWISE, CONCRETE SHALL BE READY MIXED AND DELIVERED TO THE PROJECT IN ACCORDANCE WITH ASTM C94. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150YD³ OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5000FT² OF SURFACE AREA FOR SLABS OR WALLS. ON A GIVEN PROJECT, IF TOTAL VOLUME OF CONCRETE IS SUCH THAT FREQUENCY OF TESTING REQUIRED AS NOTED ABOVE WOULD PROVIDE LESS THAN FIVE STRENGTH TEST FOR A GIVEN CLASS OF CONCRETE, TESTS SHALL BE MADE FROM AT LEAST FIVE RANDOMLY SELECTED BATCHES OR FROM EACH BATCH IF FEWER THAN FIVE BATCHES ARE USED.
4. BEFORE PLACING CONCRETE, ALL DEBRIS, WATER AND OTHER DELETERIOUS MATERIAL SHALL BE REMOVED FROM THE PLACES TO BE OCCUPIED BY THE CONCRETE. THE PLACING OF ALL CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318 AND ASTM C94 REQUIREMENTS. PUMPING OF CONCRETE WILL BE PERMITTED ONLY WITH THE ENGINEER OF RECORD'S APPROVAL OF PROPOSED CONCRETE MIX AND METHOD OF PUMPING. CONCRETE SHALL BE RAPIDLY HANDLED FROM MIXER TO FORMS AND DEPOSITED AS NEARLY AS POSSIBLE TO ITS FINAL POSITION TO AVOID SEGREGATION DUE TO REHANDLING. CONCRETE TO BE SPADED AND WORKED BY HAND AND VIBRATED TO ASSURE CLOSE CONTACT WITH ALL SURFACES OF FORMS AND REINFORCING STEEL AND LEVELED OFF AT PROPER GRADE TO RECEIVE FINISH. ALL CONCRETE SHALL BE PLACED UPON CLEAN, DAMP SURFACES. VIBRATION SHALL BE APPLIED DIRECTLY TO THE CONCRETE AND SHALL BE SUFFICIENT TO CAUSE FLOW OF SETTLEMENT BUT NOT LONG ENOUGH TO CAUSE SEGREGATION OF THE MIX. OPERATION OF THE VIBRATOR SHALL BE SOLE RESPONSIBILITY OF ONE MAN DURING THE PLACING OF CONCRETE. CONCRETE MORE THAN 90 MINUTES OLD SHALL NOT BE USED UNLESS PRE-APPROVED RETARDERS HAVE BEEN USED IN DESIGN MIX.
5. CONSTRUCTION JOINTS SHALL BE LOCATED IN ACCORDANCE WITH ACI 301. ALL REINFORCING STEEL SHALL BE CONTINUOUS ACROSS JOINTS. IN SLABS ON GRADE, SAW CONTRACTION JOINTS NOT OVER TWENTY FEET CENTER TO CENTER EACH WAY. JOINTS SHALL BE SAWN A MINIMUM DEPTH OF 1/8" AND A MAXIMUM DEPTH OF ONE THIRD OF THE SLAB THICKNESS. SAWING OF THE JOINTS SHALL COMMENCE AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING. FILL SAW CUTS WITH APPROVED JOINT FILLER AFTER CONCRETE HAS CURED.
6. CONCRETE, WHEN DEPOSITED, SHALL HAVE A TEMPERATURE NOT BELOW 50 DEGREE F AND NOT ABOVE 90 DEGREE F. THE METHODS AND RECOMMENDED PRACTICES AS DESCRIBED IN ACI 306 SHALL BE FOLLOWED FOR COLD WEATHER CONCRETING AND ACI 305 FOR HOT WEATHER CONCRETING.
7. FRESHLY PLACED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING BY ONE OF THE FOLLOWING METHODS:
   (1) PONDING OR CONTINUOUS SPRINKLING.
   (2) ABSORPTIVE MAT OR FABRIC KEPT CONTINUOUSLY WET.
   (3) WATERPROOF PAPER CONFORMING TO ASTM C171.
   (4) APPLICATION OF AN APPROVED CHEMICAL CURING COMPOUND.

   THE CURING SHALL CONTINUE UNTIL THE CUMULATIVE NUMBER OF DAYS WHEN THE AMBIENT TEMPERATURE ABOVE 50 DEGREE F HAS TOTALED SEVEN. DURING CURING, THE CONCRETE SHALL BE PROTECTED FROM ANY MECHANICAL INJURY, LOAD STRESSES, SHOCK, VIBRATION OF DAMAGE TO FINISHED SURFACES.
8. REINFORCING STEEL BARS SHALL BE DEFORMED IN ACCORDANCE WITH ASTM A305 OR A408 AND FORMED OF ASTM A615-78 GRADE 60 STEEL. WELDED WIRE FABRIC REINFORCING TO BE ASTM A185 STEEL WIRE. ACCESSORIES SHALL CONFORM TO THE CRSI "MANUAL OF STANDARD PRACTICE". THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED OVER REINFORCING BARS:

EXPOSED TO EARTH:	3"
EXPOSED TO WEATHER:	1 1/2"
SLABS NOT EXPOSED TO WEATHER:	3/4"
BEAMS AND COLUMNS:	1 1/2"

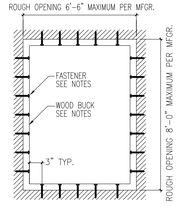
9. SHOP DRAWING ARE REQUIRED FOR THE FOLLOWING ITEMS: CONCRETE MIX; REINFORCING BARS WITH BENDING SCHEDULE; INSERTS AND ATTACHMENTS; FORM WORK, SHORING AND RESHORING (SIGNED AND SEALED BY THE SPECIALTY ENGINEER RESPONSIBLE FOR DESIGN).

TIMBER GENERAL NOTES:

1. ROOF TRUSSES (AND FLOOR TRUSSES WHERE SPECIFIED) ARE TO BE DESIGNED BY FABRICATOR. THE FABRICATOR IS RESPONSIBLE FOR THE SUBMISSION OF SHOP DRAWINGS TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE SHOP DRAWINGS ARE TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: ALLOWABLE LOADS FOR LUMBER AND PLATES; STRESS REDUCTION FACTOR FOR PLATES; TOP AND BOTTOM CHORD DESIGN LOADS IN PLF; SIZE GAUGE AND EXACT LOCATION BY DIMENSION OF PLATES; SIZES AND LOCATIONS OF TOP AND BOTTOM CHORD BRACING REQUIRED; LUMBER SPECIES AND GRADE USED; MANUFACTURER AND MODEL NUMBER OF FRAMING CONNECTIONS TO BE USED; NAME AND TRADEMARK OF PLATE MANUFACTURER AND TRUSS FABRICATOR; PROJECT NAME AND LOCATION; STAMP AND SIGNATURE OF SPECIALITY ENGINEER RESPONSIBLE FOR THE DESIGN. THIS REVIEW AND APPROVAL IS FOR GENERAL CONFORMANCE WITH THE DESIGN INTENT AND DOES NOT RELIEVE THE FABRICATOR OF ANY LIABILITY FOR ERRORS OR OMISSIONS IN THE FABRICATION OR INSTALLATION OF THESE TRUSSES.
2. ALL COMMON FRAMING LUMBER IS TO MEET THE FOLLOWING MINIMUM SPECIFICATIONS AT 19% MOISTURE CONTENT; 2X4,2X6,2X8,2X10; 2X12; #2 SOUTHERN YELLOW PINE, FB=1150PSI, FT=675PSI, FC=565PSI (PERPENDICULAR) AND 1550PSI (PARALLEL), E=1,400,000
3. ALL WOOD FRAMING IS TO BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE AMERICAN INSTITUTE FOR TIMBER CONSTRUCTION, AMERICAN WOOD PRODUCTS ASSOCIATION, AMERICAN PLYWOOD ASSOCIATION AND U.S.D.A.
4. ALL WOOD IN CONTACT WITH CONCRETE IS TO BE P.T. ALL WOOD IN CONTACT WITH THE GROUND IS TO BE GROUND CONTACT APPROVED.
5. ROOF SHEATHING SHALL BE 19/32" THICK STANDARD CDX PLYWOOD, NAIL TO SUPPORT WITH 8D RING SHANK NAILS @ 6"C/C FOR EDGES AND 6"C/C FOR INTERMEDIATE SUPPORTS. EAVES AND OVERHANGS SHALL BE NAILED WITH 8D RING SHANK NAILS @ 4"C/C FOR EDGES AND 4"C/C FOR INTERMEDIATE SUPPORTS. FORM BOARDS SHALL NOT BE REUSED ON ROOF DIAPHRAGM. FULL SHEETS OF PLYWOOD SHALL BE USED WHERE EVER POSSIBLE. ROOFS IN THE TOWN OF PALM BEACH MUST HAVE LUMBER OR SOLID SHEATHING OF WOOD BOARDS 3/4" INCH THICK MIN. AND BE FASTENED WITH MIN. 10D COMMON OR 10D HOT DIPPED GALVANIZE BOX NAILS.
6. PLYWOOD FLOOR SHEETING SHALL BE 3/4" THICK STANDARD CD INTERIOR GRADE WITH EXTERIOR GLUE, PANEL INDEX 24/2 CONFORMING TO US PS-1 AND STAMPED WITH DFPA GRADE-TRADEMARK. PLYWOOD SHALL BE NAILED TO SUPPORTS WITH 10D COMMON NAILS AT 6"C/C FOR EDGES AND AT 12"C/C FOR INTERMEDIATE SUPPORTS.
7. EXTERIOR WALL SHEATHING WHERE SHOWN SHALL BE A MINIMUM OF 15/32" THICK CDX PLYWOOD. NAIL TO SUPPORTS WITH 8D RING SHANK NAILS. NAIL SPACING SHALL BE IN ACCORDANCE WITH SHEAR WALL SCHEDULE WHERE NOTED ON PLAN. IF NOT SCHEDULE, SHEATHING IS TO BE NAILED 6"C/C EDGES AND FIELD.
8. IN GENERAL, THE FOLLOWING FRAMING NOTES SHALL APPLY; USE DOUBLE STUDS UNDER OPENINGS LESS THAN 4'-0" WIDE AND TRIPLE STUDS UNDER OPENINGS 4'-0" WIDE AND LARGER. PROVIDE RIDGING CONSISTING OF METAL CROSS (SIMPSON NC,NB, OR TB), 1X WOOD CROSS OR 2X SOLID WOOD BLOCKING AT 8'-0" MIN. FOR FLOOR JOIST SPANS 10'-0" OR LARGER AND AT 4'-0" FOR ROOF RAFTER SPANS 8'-0" AND LARGER. PROVIDE DOUBLE JOIST UNDER PARTITIONS ABOVE WHICH ARE PARALLEL TO JOIST SPAN. PROVIDE SOLID BLOCKING (2X DIMENSION LUMBER) OF MEMBERS IN THE SPAN. THE NUMBER OF WALL STUDS AT THE BEARING POINTS OF MULTIPLE BEAM SHALL EXCEED THE NUMBER OF MEMBERS IN THE BEAM BY ONE, AND THE CENTERLINE OF THE BEAM SHALL BE THE CENTERLINE OF THE SUPPORTING WALL STUDS.
9. EXTERIOR STUD WALLS SHALL WITH PLATE HEIGHT OF NOMINAL 8'-0" SHALL BE FRAMED WITH 2X4'S OR 2X6'S AT 16"C/C. EXTERIOR STUD WALLS WITH PLATE HEIGHTS GREATER THAN 8'-0" BUT LESS THAN 10'-0" SHALL BE FRAMED WITH 2X6'S @ 16"C/C. EXTERIOR STUD WALLS WITH PLATE HEIGHTS 10'-0" OR GREATER SHALL BE FRAMED AS SHOWN ON THE DRAWINGS.

BUCK INSTALLATION NOTES:

1. WINDOW BUCKS ARE TO BE 2X4 OR 2X6, #2 S.Y. PINE, PRESSURE TREATED TO 2.5CCA. BUCKS ARE TO BE FULLY BONDED TO MASONRY WITH SIKA 1A CONSTRUCTION ADHESIVE. FOR DOUBLE BUCK INSTALLATION, BUCKS ARE TO BE FULLY BONDED TO EACH OTHER.
2. FASTENERS ARE TO BE 1/4"ø TAPCONS WITH MINIMUM PENETRATION OF 1 3/4" INTO MASONRY. USE STAGGERED SPACING OF TAPCONS EQUAL TO, OR LESS THAN REQUIRED FASTENERS SPECIFIED BY MANUFACTURER FOR FRAME TO BUCK INSTALLATION.
3. BUCKS TO BE FASTENED HORIZONTALLY AND VERTICALLY TO CONCRETE BEAMS AND COLUMNS OR GROUTED MASONRY. CONTRACTOR TO COORDINATE OPENING DIMENSIONS.
4. WHERE ¾" P.T. SHIM IS USED, WINDOW FRAME SHALL BE SECURED TO CONRCETE OR MASONRY WITH ¼"ø TAPCONS OF SUFFICIENT LENGTH TO ALLOW FOR 1¾" EMBEDMENT AT SPACING SPECIFIED BY N.O.A.
5. DOOR BUCK INSTALLATION SAME AS WINDOW WITHOUT SILL.



WINDOW BUCK ANCHORAGE

FOUNDATION GENERAL NOTES:

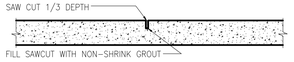
1. FLOOR SHALL BE 4" THICK 4000 PSI CONCRETE SLAB WITH 6X6-W1.4XW1.4 WWF OVER 10 MIL VAPOR BARRIER, ON COMPACTED TERMITE TREATED FILL. TOP OF FINISHED SLAB SHALL BE 0'-0" U.N.O.
2. COLUMN AND FOOTING CENTERLINES, SHALL COINCIDE UNLESS DIMENSIONED OTHERWISE.
3. REFERENCE ELEVATION +0'-0", SEE SURVEY PLOT FOR NGVD.
4. PROVIDE ISOLATION JOINTS BETWEEN INTERIOR AND EXTERIOR SLABS ON GRADE: PROVIDE 1/2" FELT PAPER AT THE JOINT.
5. COORDINATE SLAB ELEVATION, STEP, AND SLOPES WITH ARCHITECT DRAWINGS.
6. SEE ARCHITECTURAL DRAWINGS FOR THE ORIENTATION OF THE BLDG.
7. WINDOWS, DOORS AND ROUGH OPENINGS ARE TO BE COORDINATED WITH THE WINDOW/DOOR TYPES AND LOCATIONS NOTED ON THE ARCHITECTURAL DRAWINGS AND WITH THE MANUFACTURERS SPECIFICATIONS.
8. SEE ARCHITECTURAL DRAWINGS FOR WALKWAY SLAB LAYOUT.
9. INDICATES #5 VERTICAL REINFORCING BAR, U.N.O. IN CELLS FILLED WITH GROUT ENDS OF REBARS SHALL BE HOOKED INTO FOUNDATION, BOND BEAM OR TIE BEAMS WITH AN ACI STANDARD 90 DEG. HOOK.
10. REBARS SHALL BE PLACED AS SHOWN IN THE PLANS. SEE COLUMN SCHEDULE FOR MORE INFORMATION.
11. SPLICES IN REINFORCING BARS SHALL NOT BE LESS THAN 48 BAR DIAMETERS (#5 = 30", #7 = 42"), AND REINFORCING SHALL BE CONTINUOUS.
12. RATIONAL ANALYSIS WAS PERFORMED TO DETERMINE THE STEEL REINFORCING FOR THE FOUNDATION. DESIGNED WAS BASED ON AN ALLOWABLE SOIL BEARING CAPACITY OF 2,500 PSF.
13. REINFORCING FOR FOUNDATION SHALL BE CONTINUOUS AROUND CORNERS AND CHANGES OF DIRECTION WITH THE ADDITION OF A CORNER BAR 30" ALONG EACH LEG, FOR EACH BAR IN FOUNDATION.
14. PROVIDE A COMPLETE TREATMENT FOR THE PREVENTION OF SUBTERRANEAN TERMITES. TREATMENT SHOULD BE IN ACCORDANCE WITH THE RULES AND LAWS AS ESTABLISHED BY THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES. COORDINATE RECESSES FOR FLOORING WITH ARCHITECTURAL.

LIGHT GAUGE METAL STUD GENERAL NOTE:

ALL LIGHT GAUGE METAL STUDS SHALL BE LOCATED AS SHOWN ON ARCH./STRUCT. DRAWINGS. MANUFACTURER AND/OR SUPPLIER MUST SUBMIT SHOP DRAWINGS WITH PHYSICAL PROPERTY TABLES PRIOR TO FABRICATION FOR ARCHITECT/ENGINEER'S APPROVAL. ALL LINTELS OVER DOOR OPENINGS ARE TO BE DESIGNED AND PROVIDED BY STUD MANUFACTURER/SUPPLIER. ALL STEEL STUDS, TRACKS, BRIDGING, END CLOSURES AND ACCESSORIES SHALL BE HOT-DIPPED GALVANIZED (G60) PER ASTM A525. STEEL STUDS SHALL BE MANUFACTURED AND INSTALLED IN ACCORDANCE WITH THE LATEST AISI SPECIFICATIONS AND SHALL COMPLY WITH ASTM A446, GRADE A, WITH A MINIMUM YIELD OF 33,000 PSI. MANUFACTURER TO PROVIDE HOLES IN STUDS FOR PASSAGE OF PIPE AND WIRING. TRACKS SHALL BE SECURELY ANCHORED TO THE SUPPORTING STRUCTURE AS SHOWN ON PLANS. STUDS SHALL BE PLUMBED, ALIGNED AND SECURELY ATTACHED TO THE FLANGES OR WEBS OF BOTH UPPER AND LOWER TRACKS. AT TRACK BUTT JOINTS, ABUTTING PIECES OF TRACK SHALL BE SECURELY ANCHORED TO A COMMON STRUCTURAL ELEMENT, OR THEY SHALL BE BUTT-WELDED OR SPLICED TOGETHER. SPLICES ARE NOT PERMITTED IN VERTICAL STUDS.

CONTROL JOINT (SAW-CUT) SCHEDULE:

SLAB SIZE	SAW CUT GRID PATTERN
4" THICK	10'-0"x10'-0"



CONTROL JOINT DETAIL

DESIGN LOADS FOR:

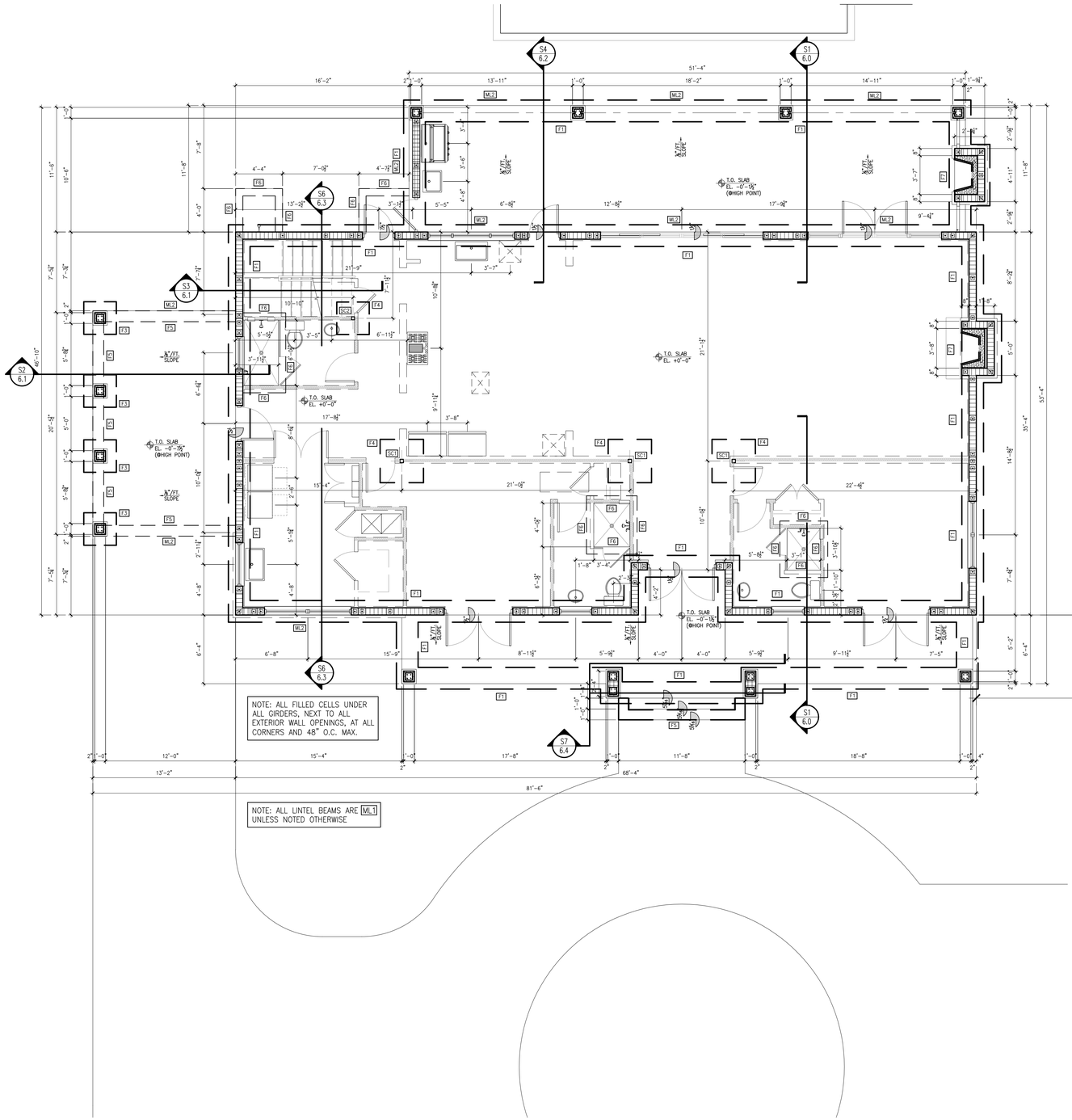
GROVES RESIDENCE

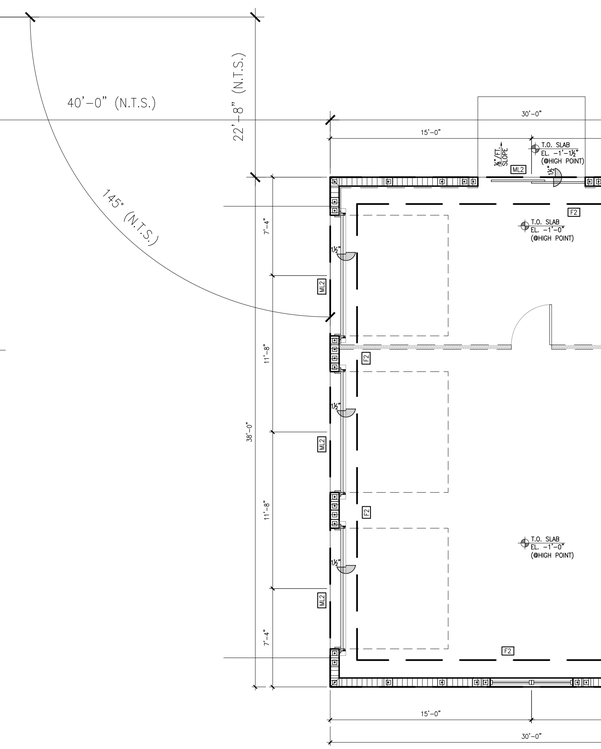
GRAVITY LOADS	ROOF	FLOOR	ADDITIONAL
LIVE LOAD	30 PSF	40 PSF	
DEAD LOAD	25 PSF	45 PSF	
TOTAL	55 PSF	85 PSF	

JURISDICTION: MARTIN COUNTY BLDG. DEPT.
CODE: 2017 FLORIDA BUILDING CODE & ASCE 7-14

DRAWING LEGEND

SYMBOL	DESCRIPTION
24"x12" STEM	CONTINUOUS STEM WALL/THK. FTG. SEE FOUNDATION DETAILS. FOOTING TYPE FOOTING THICKNESS FOOTING WIDTH
24"x12" MONO	CONTINUOUS MONOLITHIC FOOTING SEE FOUNDATION DETAILS. FOOTING TYPE FOOTING THICKNESS FOOTING WIDTH
24"x24"x12"	INDIVIDUAL COLUMN FOOTING. SEE FOUNDATION DETAILS FOR BASE PLATE AND REINFORCING.
	CONCRETE MASONRY WALL w/#5 @ MAX. 48" O.C. IN GROUT FILLED CELL VERT. REINF. W/ 2000psi GROUT WHERE INDICATED ON PLANS
	LOAD BEARING 2X6 OR 2X8 WOOD FRAMED WALL W/ STUDS @ 16" O.C.
	LOAD BEARING INTERIOR STUD WALL W/ 2x4 @ 12" O.C.





STEEL COLUMN SCHEDULE			
MARK	SIZE	BASE PLATE	TOP PLATE
SC1	4"x4"x¼"	10"x10"x⅜" PL. W/ (4)⅝"ø HOLES FOR ⅝"ø BOLTS	8"x8"x⅜" PL. W/ (4)⅝"ø x4" NELSON STUDS
SC2	3½"x3½"x¼"	10"x10"x⅜" PL. W/ (4)⅝"ø HOLES FOR ⅝"ø BOLTS	CUSTOM STEEL BUCKET, SEE DETAIL
NOTE: _			

CONCRETE FOUNDATION SCHEDULE		
MARK	SIZE	REINFORCING
F1	24"x12" SF	(3)#5 CONT. BOTT.
F2	24"x16" MF	(3)#5 CONT. BOTT.
F3	36"x36"x12" SF	(4)#5 E.W. BOTT.
F4	48"x48"x12" SF	(5)#5 E.W. BOTT.
F5	12"x12" MF	(2)#5 CONT. BOTT.
F6	8"x8" MF	(1)#5 CONT. BOTT.
F7	44"x63" SF	#5 E.W. BOTT. @12" O.C. MAX.
NOTE: _		

NORTH

1 / 8.0 FOUNDATION PLAN

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

I HEREBY CERTIFY AS THE BUILDING DESIGN ENGINEER OF RECORD, THAT THE BUILDING DESIGN AS SHOWN ON THESE PLANS (STRUCTURAL COMPLIANCE ONLY) AND AS ACCOMPANIED BY DESIGN AND SUPPORT DOCUMENTS, CONFORMS TO THE 2017 6TH EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION DOES NOT INCLUDE ROOF TRUSS COMPONENTS OF WHICH THE TRUSS DESIGN ENGINEER IS THE ENGINEER OF RECORD. THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2017 6TH EDITION FLORIDA BUILDING CODE WITH SUPPLEMENTS.

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CRAIG E. GUNDERSON LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

Digitally signed by Craig E. Gunderson P.E. 60102
Date: 2021.04.19 11:45:05 -04'00'

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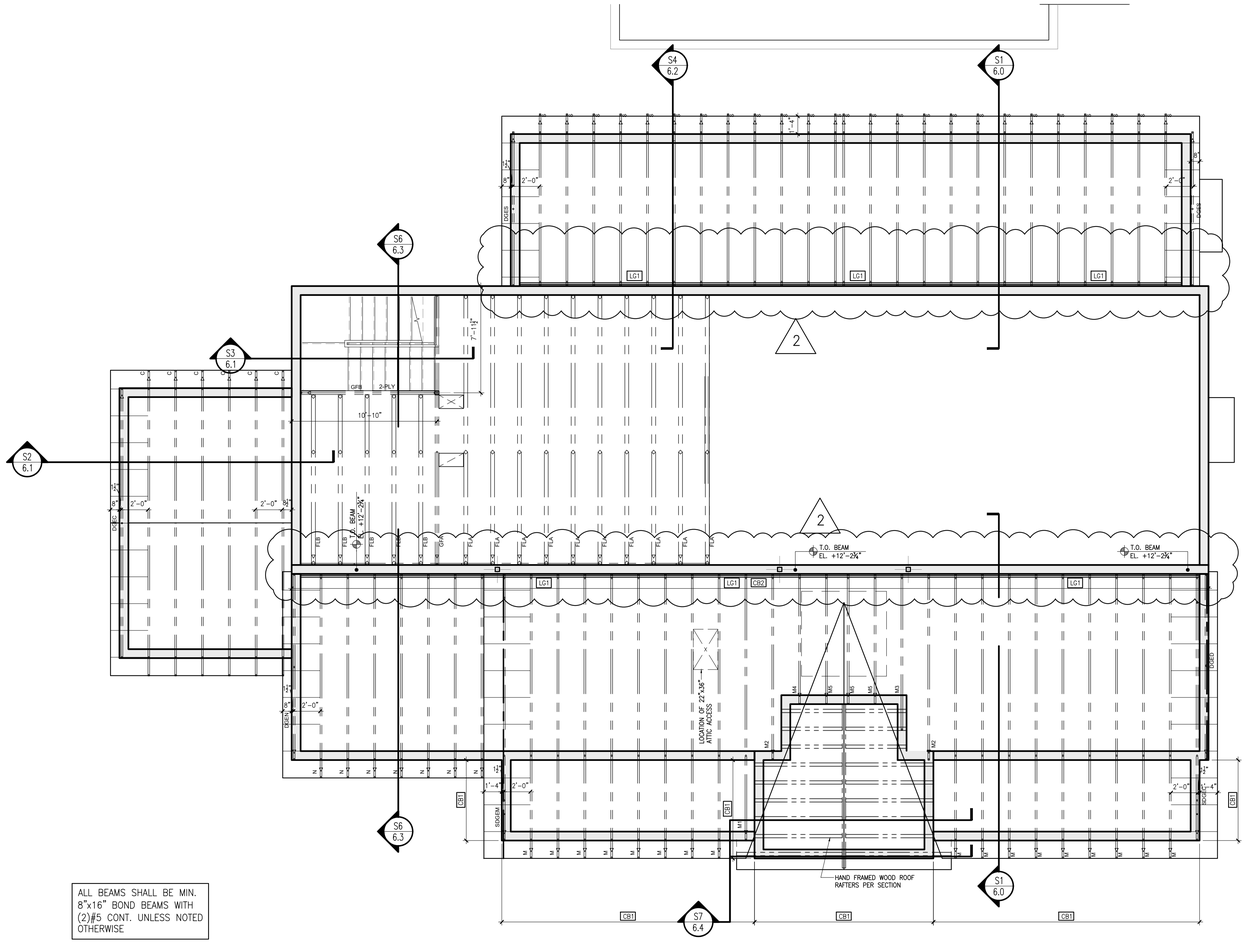
4-19-2021

PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: FOUNDATION PLAN

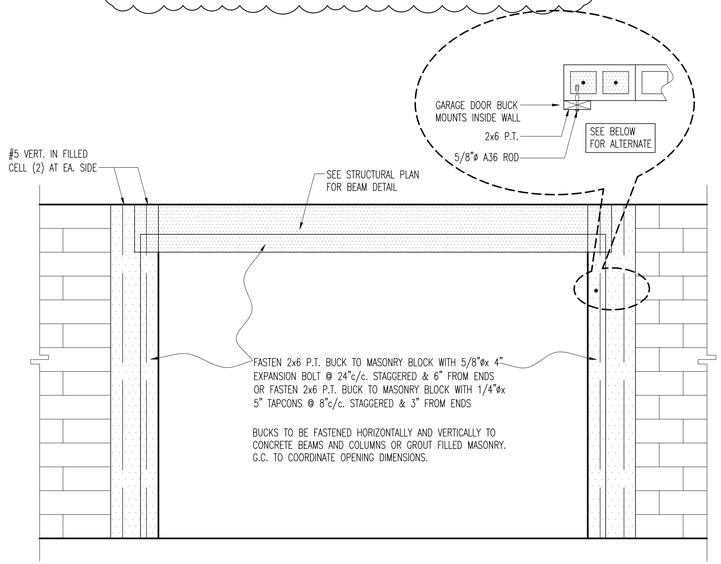
REVISIONS:
1- BLDG. DEPT. COMMENTS 02.15.2021
2- BLDG. DEPT. COMMENTS 04.15.2021



ALL BEAMS SHALL BE MIN. 8"x16" BOND BEAMS WITH (2)#5 CONT. UNLESS NOTED OTHERWISE.

CONCRETE BEAM SCHEDULE					
MARK	SIZE (WxH)	TOP REINF.	MID. REINF.	BOTT. REINF.	STIRRUPS
CB1	8"x16"	(2)#7	–	(2)#7	#3 @16" O.C.
CB2	8"x24"	(2)#5	(2)#5	(2)#5	#3 @12" O.C.

LEDGER SCHEDULE	
MARK	DESCRIPTION
LG1	(2)2x8 P.T. WOOD LEDGER W/ ⅝"ø A.B. @16" O.C. MAX. STAGGERED W/ MIN. 4" EMBED.
LG2	



D2 / 8.1 TYP. GARAGE DOOR BUCK DETAIL
SCALE: 3/4" = 1'-0"

CONNECTOR NOTES

UNLESS OTHERWISE NOTED:
TRUSS TO TRUSS CONNECTIONS BY TRUSS COMPANY.
LOCATIONS AND CONNECTIONS ONLY.

UNLESS SPECIFIED ON THE TRUSS LAYOUT, TRUSS UPLIFTS ARE 1800# OR LESS STRAP TRUSS TO EACH CONCRETE BEARING W/ (1) HETA20 W/ 10-10d X 1 1/2" NAILS. STRAP TRUSS TO WOOD BEARING W/ (1)H10 W/ 16-10d NAILS. FOR 2PLY MEMBER TO CONC CONNECTION USE (2)HETA20 W/ 14-16d X 1 1/2" NAILS PER STRAP. FOR 2PLY MEMBER TO WOOD CONNECTION USE H10-2 W/16-10d NAILS AND (2)MTS1B W/ 14-10d PER STRAP.

KING TO WOOD BEARING USE HCP2 W/ 10d X 1 1/2" NAILS TO ALL HOLES.

TYP. COMMON AND END JACKS 7' AND LESS (MAX 400# UPLIFT) USE (1)HETA20 W/ 10-10d X 1 1/2" NAILS FOR CONC. CONNECTION. OR H10 W/ 16-10d NAILS FOR WOOD CONNECTION.

POST CONNECTIONS, UNLESS OTHERWISE NOTED: @ BASE (1)ABU44 W/ 5/8"X6" EMBED WEDGE BOLT TO CONC/ 16d ALL HOLES TO WOOD.

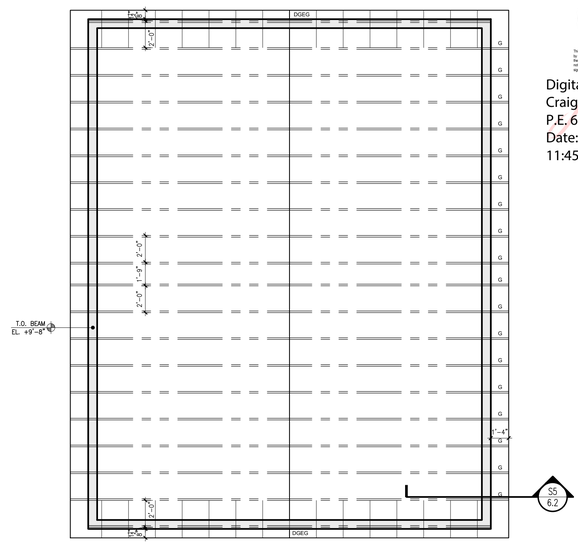
HEADER CONNECTIONS: (2)HETA20 W/ 14-16d PER STRAP FOR CONC. CONNECTION. FOR WOOD CONNECTION SEE POST TOP CONNECTION. USE HUS410 FACE MOUNT TO CONCRETE AS NOTED.

USE 1 1/2" 10d NAILS IN STRAPS UNLESS OTHERWISE NOTED. NO SPLITTING OR CRACKING ALLOWED.

VALLEY TRUSSES TO TOP CHORDS OF TRUSSES BELOW:
(1)MTS-18 12-10d PER STRAP – 1 @ EACH END/ 48" O.C. MAX THEREAFTER

MAXIMUM LATERAL FORCE EACH TRUSS 80#.

TRUSS LAYOUT SUBJECT TO CHANGE BY SPECIALTY ENGINEER, CONNECTOR SCHEDULE MAY REQUIRE REVISION



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NORTH

1 / 8.1 FIRST FLOOR BEAM & ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

I HEREBY CERTIFY AS THE BUILDING DESIGN ENGINEER OF RECORD, THAT THE BUILDING DESIGN AS SHOWN ON THESE PLANS (STRUCTURAL COMPLIANCE ONLY) AND AS ACCOMPANIED BY DESIGN AND SUPPORT DOCUMENTS, CONFORMS TO THE 2017 6TH EDITION FLORIDA BUILDING CODE. THIS CERTIFICATION DOES NOT INCLUDE ROOF TRUSS COMPONENTS OF WHICH THE TRUSS DESIGN ENGINEER IS THE ENGINEER OF RECORD. THESE PLANS HAVE BEEN PREPARED IN COMPLIANCE WITH THE 2017 6TH EDITION FLORIDA BUILDING CODE WITH SUPPLEMENTS.

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CA CERT. #30782

JOB NO. ES-20-012
DATE: 04.16.21
SHEET NO. 8.1

4-19-2021

CRAIG E. GUNDERSON LICENSE No. 60102 STATE OF FLORIDA PROFESSIONAL ENGINEER

PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: FIRST FLOOR BEAM & ROOF FRAMING PLAN

REVISIONS:
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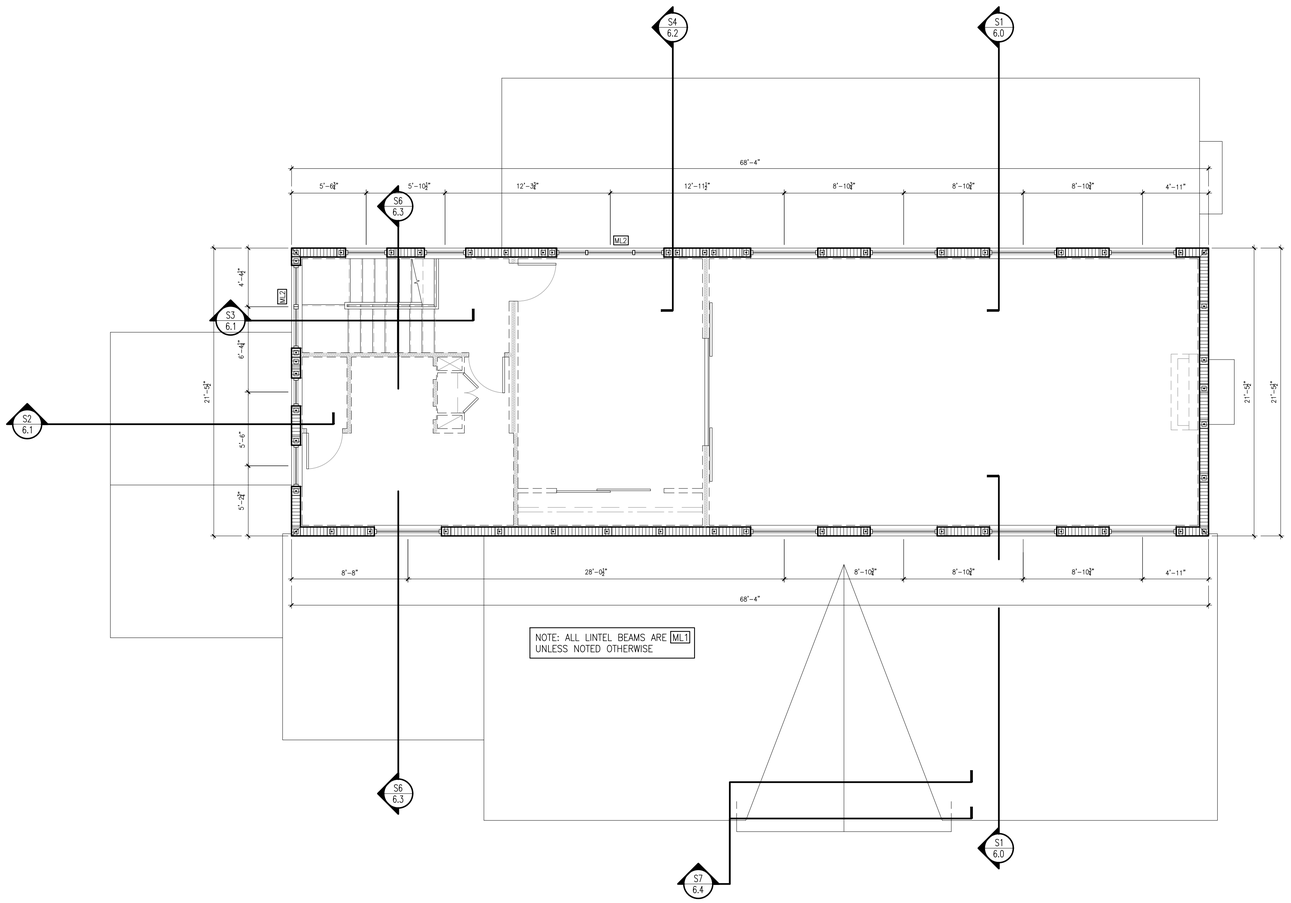

NORTH

1 / 8.2 SECOND FLOOR STRUCTURAL PLAN

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

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PROJECT NAME: GROVES RESIDENCE
ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974
SHEET TITLE: SECOND FLOOR STRUCTURAL PLAN

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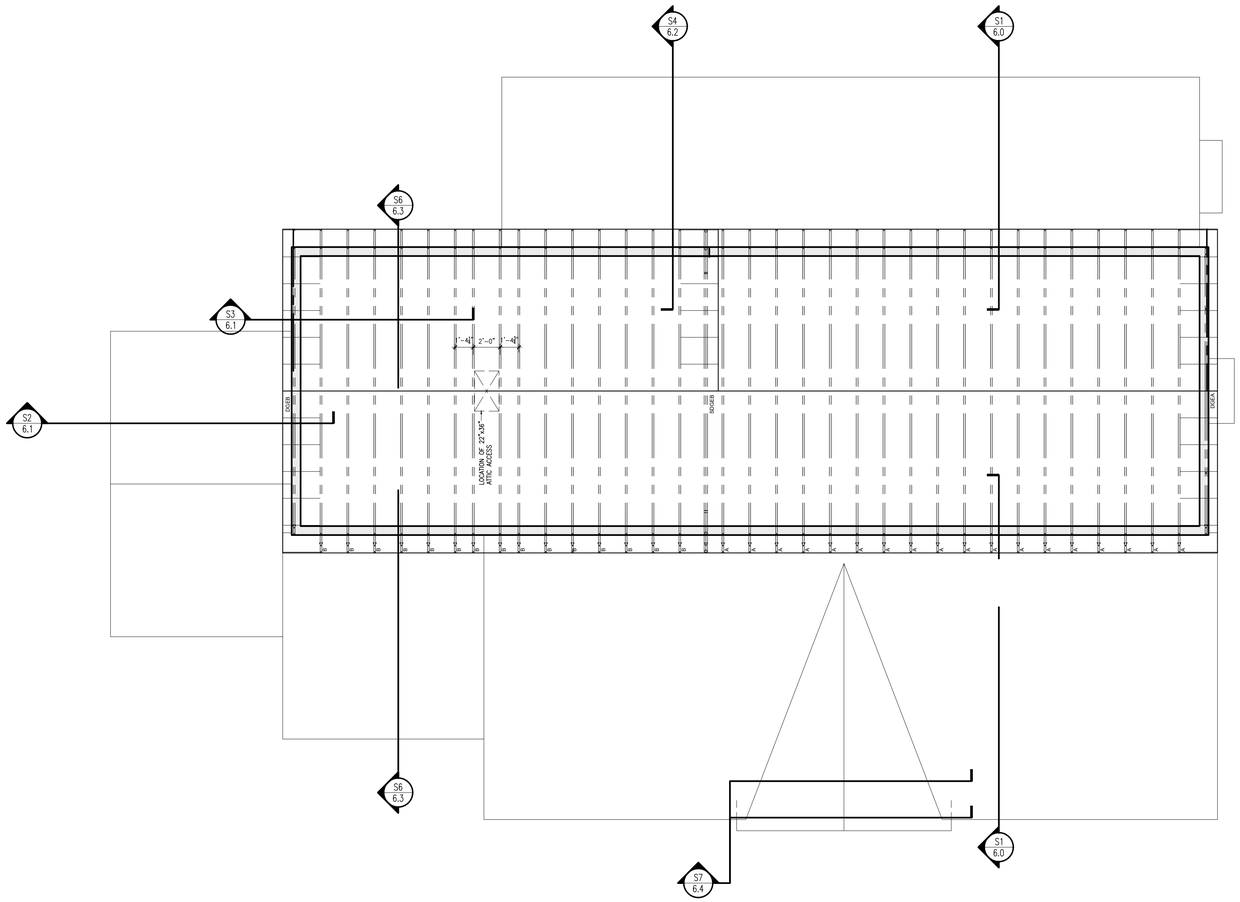

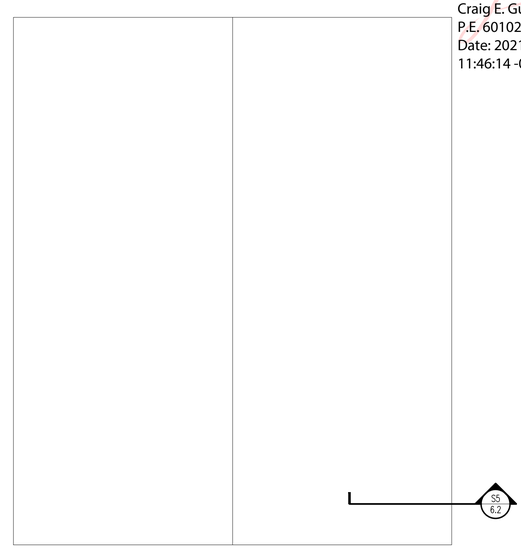

CONNECTOR NOTES

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MAXIMUM LATERAL FORCE EACH TRUSS 80#.

TRUSS LAYOUT SUBJECT TO CHANGE BY SPECIALTY ENGINEER, CONNECTOR SCHEDULE MAY REQUIRE REVISION

CRAIG E. GUNDERSON
LICENSE
No. 60102
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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4-19-2021

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Email: info@expostudiosinc.com
expostudiosinc.com

ESI
EXPO STUDIOS, INC.
Drafting and Design Services

PROJECT NAME: GROVES RESIDENCE

ADDRESS: 26209 SW Jockeys Run, Okeechobee, FL 34974

SHEET TITLE: SECOND FLOOR BEAM & ROOF FRAMING PLAN

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2- BLDG. DEPT. COMMENTS 04.15.2021

NORTH

1 / 8.3 SECOND FLOOR BEAM & ROOF FRAMING PLAN
SCALE: 3/16" = 1'-0"

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