

DESIGN CRITERIA:
CONTRACTOR: ABEND HOMES INC.

- Applicable Codes, Regulation and Standards
1. The Florida Building Code 8th Edition 2023. .
specifically Chapter 16 Structural Design, Chapter 20
Aluminum, and Chapter 23 Wood.
 2. AA ASM 35 an Specifications for Aluminum Structures,
Part 1-A and 1-B of the Aluminum Design Manual
prepared by The Aluminum Association, Inc. Washington,
D.C.,2020 Edition
 3. ASCE 7-22.

Wind Loads

1. Building Occupancy Category, Paragraph 1604.5 and
Table 1604.5: Category 1.
2. Basic Wind Speed Table, Table 1609 State of Florida
Debris Region & Basic Wind Speed, Paragraph 1609.3
and Table 1609.3.1 Equivalent Basic Wind Speed: 150MPH
V-ultimate Exposure Category, Paragraph 1609.4.3: C
3. Building Category for Aluminum Structures, FBC 7th
Edition R301.2.1.1.1 Sunroom Category 1 OR 2.

Following Loads were used to Design/Ck This Pool Cage:

1. Dead Load of 5 PSF (Which is on Higher Side)
2. Live Load of 5 PSF (Which is on Higher Side)
3. Wind Load of 150 MPH as per ASCE 7-22
4. Load Combinations as per FBC 2023 8TH EDITION
5. Live loads for primary structural members 300 lb. -
R2002.4 Building
6. Live loads for roof purlins 200 lb - R2002.4 Building

Specifications

The following specifications are applicable to this project:

1. Aluminum extrusions shall be 6005 T5 Alloy
2. Fasteners are required to be SAE Grade 2 or better
zinc plated.
3. #10 screws 6" from ends and 24" center to center.
4. Door location shall be determined by contractor in the
field.
5. All Screen - Type 18x14 or 20X20

OLD PLAN - SEE NEW - WORK PERFORMED SUBJECT TO FIELD
INSPECTOR REVIEW.



4/10/2026, 7:04:14 PM

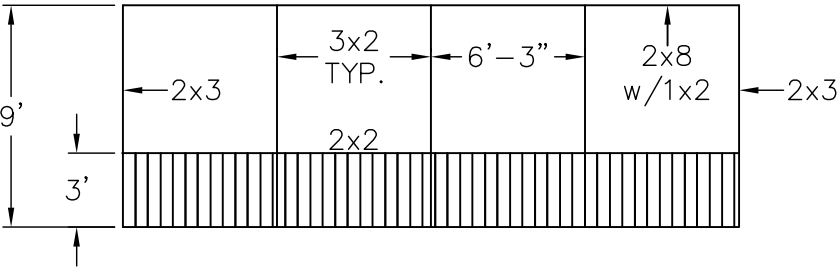
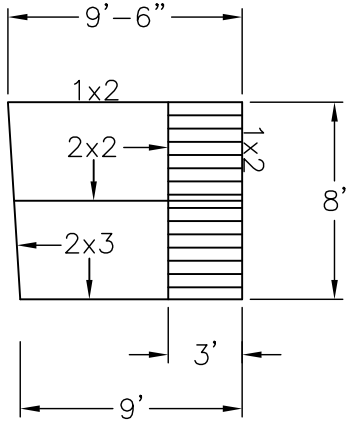
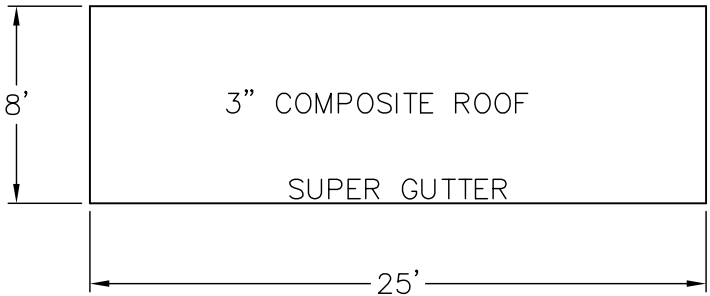
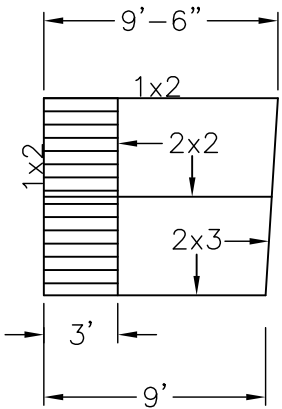
BR-SCRN-26-0004

Tate Taylor

EXACT SCREEN DOOR
LOCATION MAY
VARY AND TBD IN FIELD

HOUSE

SCALE 1/8" = 1'-0"



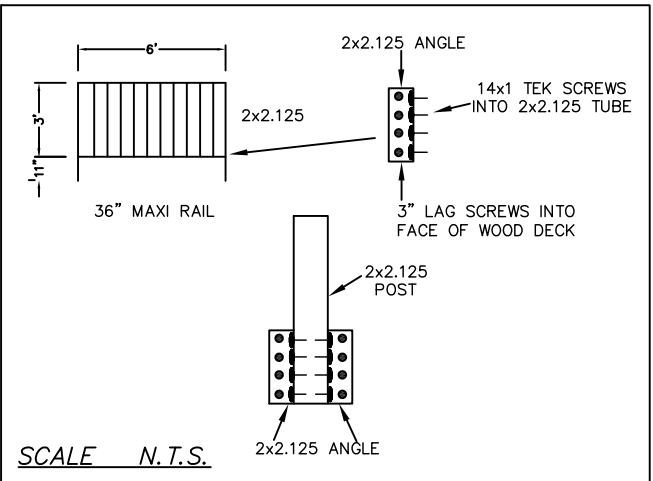
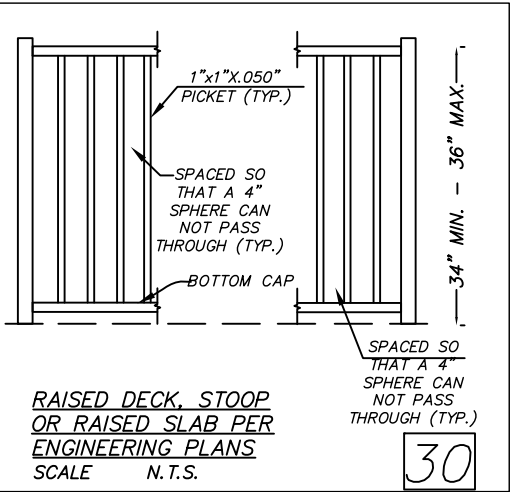
CONTRACTOR

ABEND HOMES INC.
CRC1335078

RAM GOEL, P.E.(#47431)
SONEY FM LLC, CA#9746
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD. STE P
TAMPA, FL 33647
Ph.# 715-781-1822

PROJECT ADDRESS

COX
400 N SHORE RD
LONGBOAT KEY, FL 34228



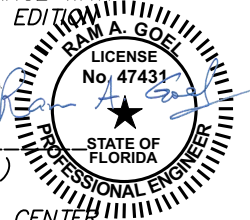
I HEREBY CERTIFY THAT I HAVE REVIEWED
AND SUPERVISED THE ATTACHED DESIGN
AND FOUND IT TO BE IN COMPLIANCE WITH
THE F.B.C. 2023 RESIDENTIAL 8th EDITION

This item has been electronically signed and
sealed by Ram Goel using a Digital
Signature and date. Printed copies of this
document are not considered signed and
sealed and signature must be verified on any
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Ram Goel

Digitally signed by Ram Goel
DN: cn=Ram Goel,
o=SONEY FM LLC, ou=10329 CROSS CREEK BLVD. STE P
TAMPA, FL 33647, email=ramgoel@sonyfm.com

RAM A. GOEL, P.E.(#47431)
SONEY FM LLC, CA#9746
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10329 CROSS CREEK BLVD. STE P
TAMPA, FL 33647
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A-1
PLAN

ALUMINUM MEMBERS DIMENSIONS

HOLLOW SECTIONS

2X2: 2"x2"x0.044"
2X3: 2"x3"x0.050"
2X4: 2"x4"x0.050"
2X5: 2"x5"x0.050"

OPEN BACK SECTIONS

1X2: 1"x2"x0.040"
1X3: 1"x2"x0.045"

SNAP SECTIONS

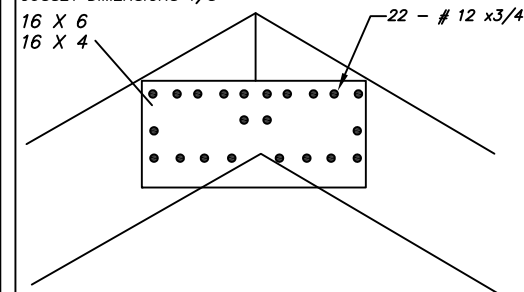
2X2 Snap: 2"x2"x0.045"
2x3 Snap: 2"x3"x0.050
2x4 Snap: 2"x4"x0.045"

SELF MATING (SMB)

2X4 SMB: 2"x4"x0.044"x0.100"
2X5 SMB: 2"x5"x0.050"x0.100"
2X6 SMB: 2"x6"x0.055"x0.120"
2X7 SMB: 2"x7"x0.057"x0.120"
2X8 SMB: 2"x8"x0.072"x0.124"
2X9 SMB: 2"x10"x0.092"x0.398"

ALUMINUM MEMBERS SHALL BE NOT LESS THAN 0.040 INCHES (1 mm) THICK - FBC 2023 8TH EDITION 2002.3.1 BUILDING

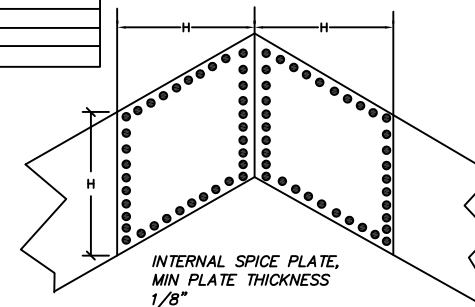
GUSSET DIMENSIONS 1/8"



EXTERNAL GUSSET DETAIL
SCALE N.T.S.

1

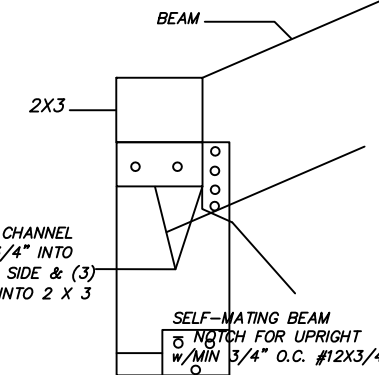
GUSSET	FASTENERS PER SIDE #10 3/4
2X4	12
2X5	14
2X6	16
2X7	18
2X8	20
2X9	22
2X10	24



INTERNAL GUSSET DETAIL
SCALE N.T.S.

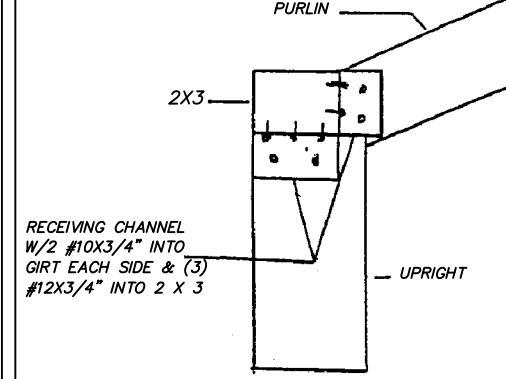
1A

RECEIVING CHANNEL
W/2 #12X3/4" INTO
GIRT EACH SIDE & (3)
#12X3/4" INTO 2 X 3



UPRIGHT TO BEAM CONNECTION DETAIL
SCALE N.T.S.

2



SLOPED PURLIN CONNECTION DETAIL
SCALE N.T.S.

3

WIND PRESSURES:

FROM TABLE 2002.4 FBC

EXPOSURE B:

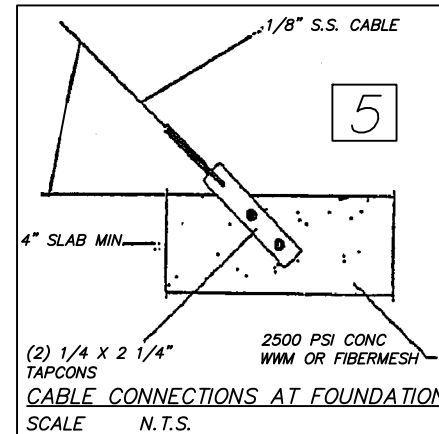
HORIZONTAL (WINDWARD) 27PSF
HORIZONTAL (LEEWARD) 21PSF

VERTICAL (SCREEN SURFACE) 8PSF
VERTICAL (SOLID SURFACE) 23PSF

EXPOSURE C:

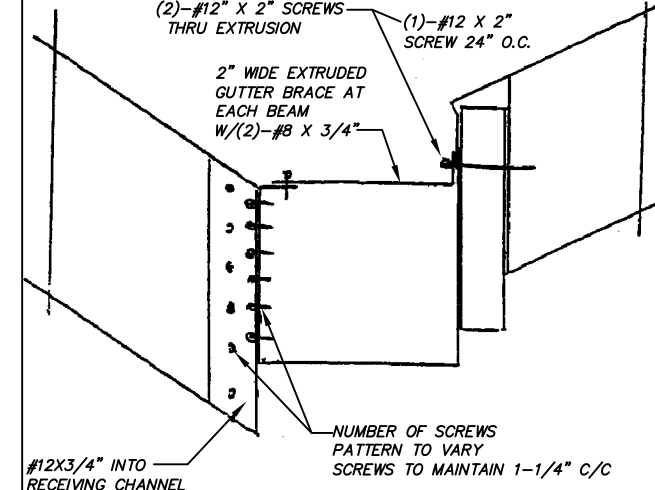
HORIZONTAL (WINDWARD) 38PSF
HORIZONTAL (LEEWARD) 29PSF

VERTICAL (SCREEN SURFACE) 11PSF
VERTICAL (SOLID SURFACE) 32PSF



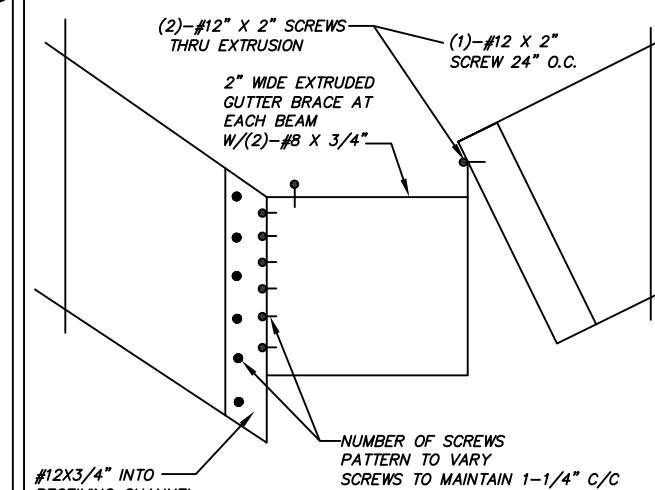
CABLE CONNECTIONS AT FOUNDATION
SCALE N.T.S.

5



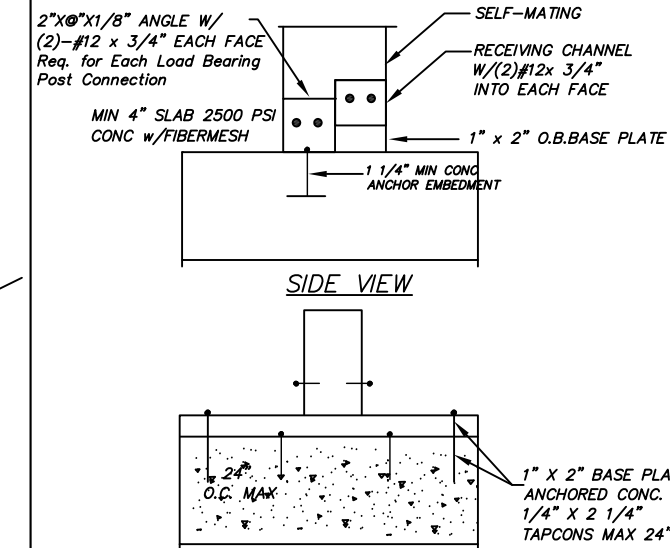
GUTTER BRACE & MATING ELEMENT
ATTACHMENT DETAIL
SCALE N.T.S.

6



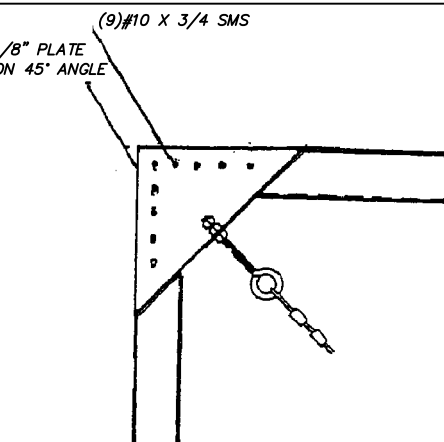
GUTTER BRACE & ANGLED FASCIA BOARD
ATTACHMENT DETAIL
SCALE N.T.S.

7



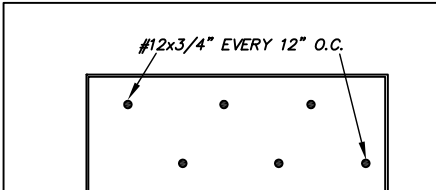
2" X 4" OR LARGER UPRIGHT TO DECK DETAILS
SCALE N.T.S.

8



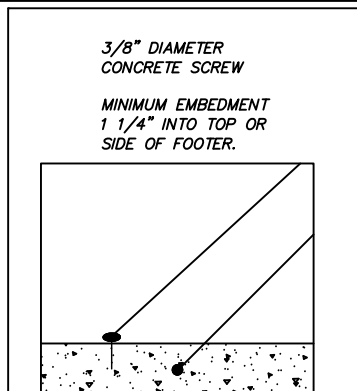
CABLE CONNECTION AT CORNER
SCALE N.T.S.

4



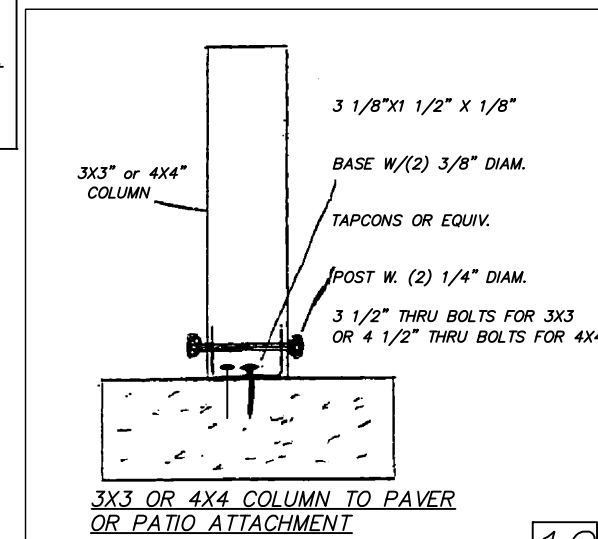
HEADER TO FACE OF GUTTER DETAIL
SCALE N.T.S.

27



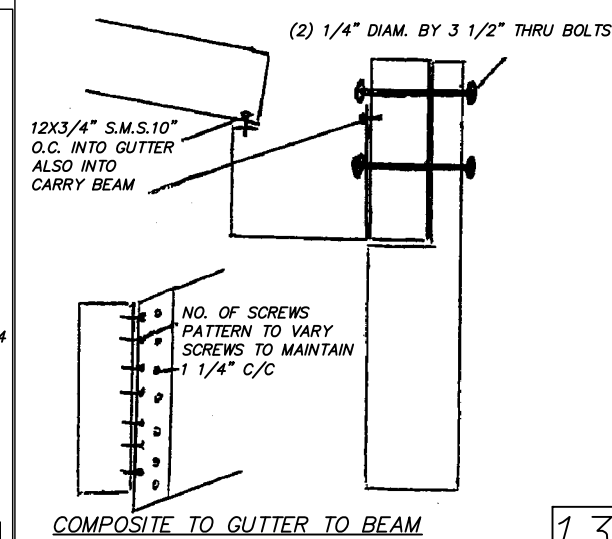
CABLE TO FOOTER
SCALE N.T.S.

11



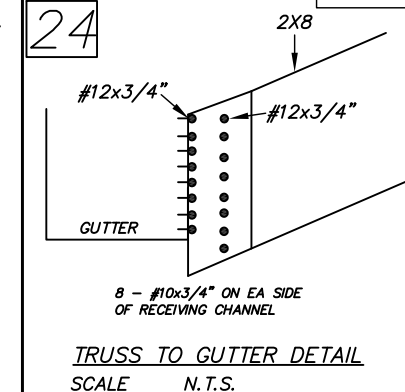
3X3 OR 4X4 COLUMN TO PAVER
OR PATIO ATTACHMENT
SCALE N.T.S.

12



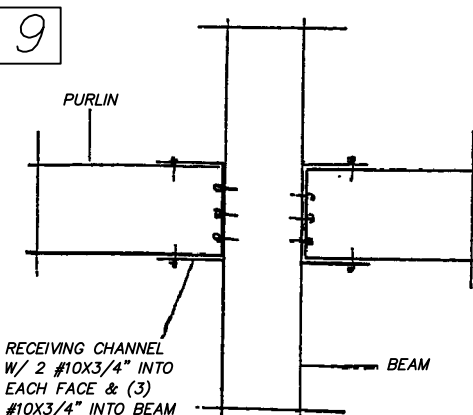
COMPOSITE TO GUTTER TO BEAM
TO 3X3 OR 4X4 COLUMN TO BEAM
SCALE N.T.S.

13



TRUSS TO GUTTER DETAIL
SCALE N.T.S.

24



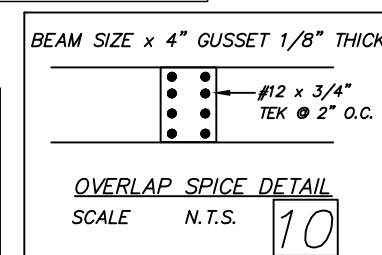
PURLIN OR GIRT TO BEAM OR POST DETAIL
SCALE N.T.S.

9

CONTRACTOR
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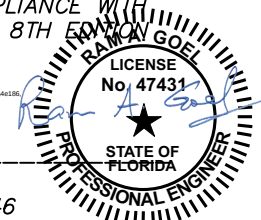
OVERLAP SPICE DETAIL
SCALE N.T.S.

10

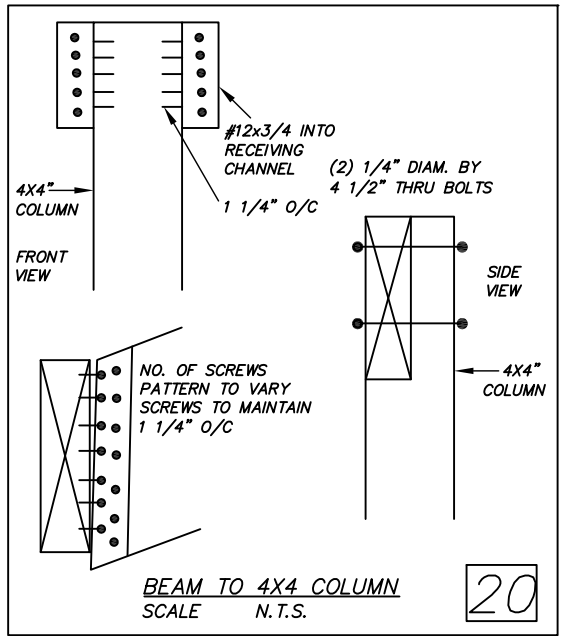
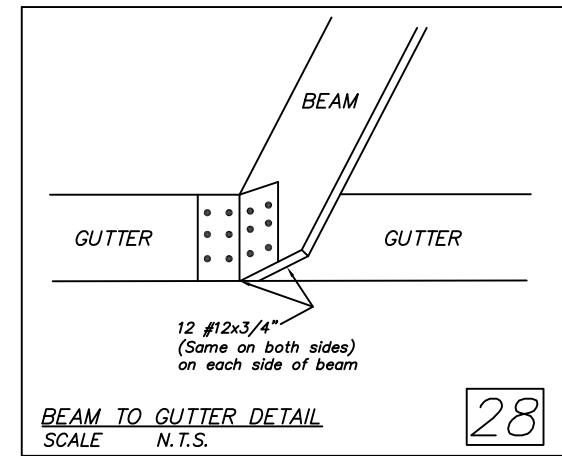
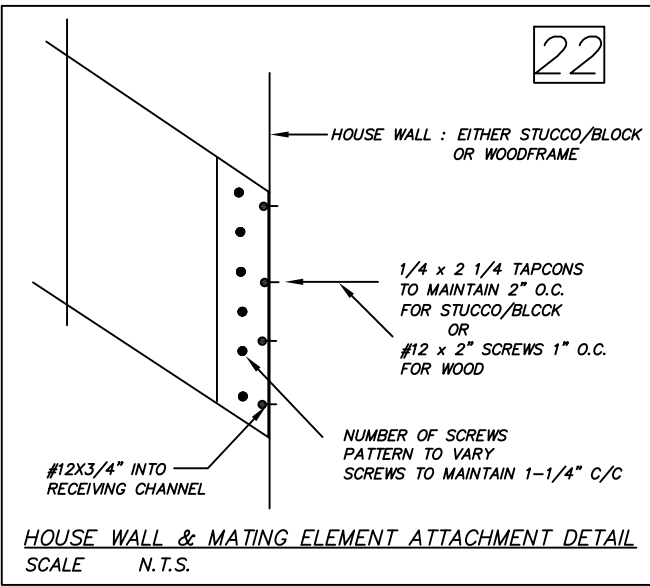
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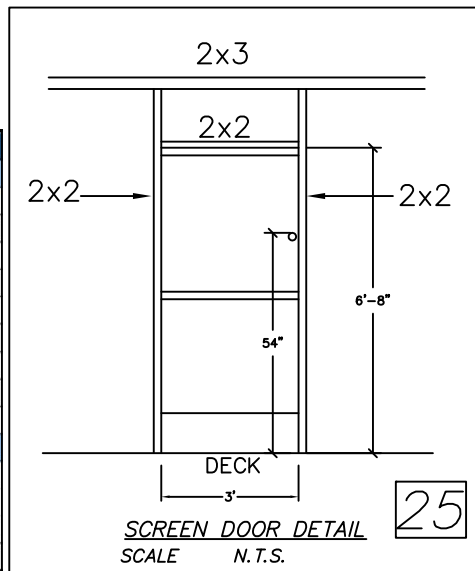
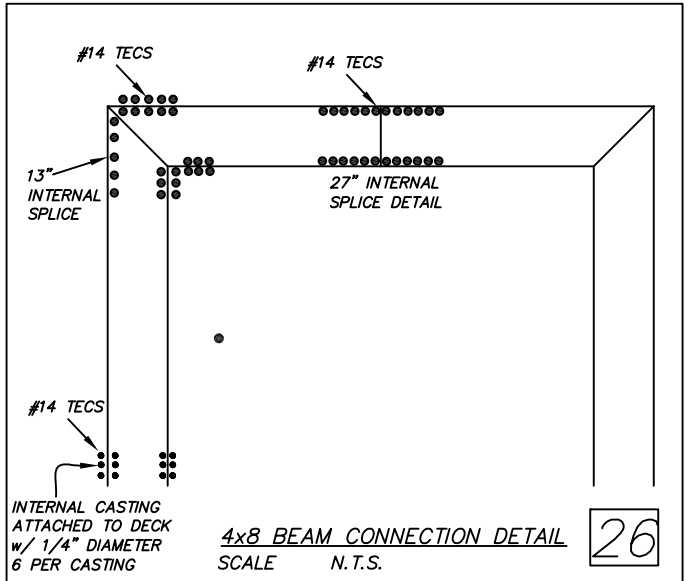
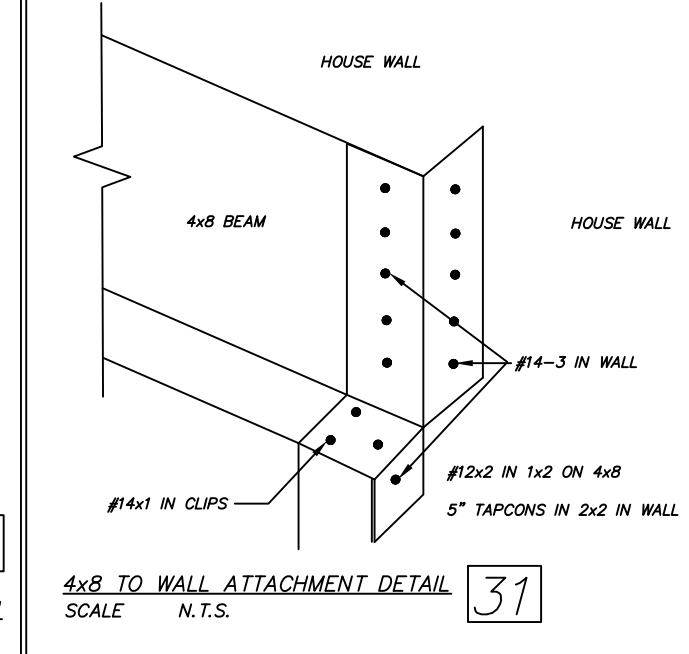
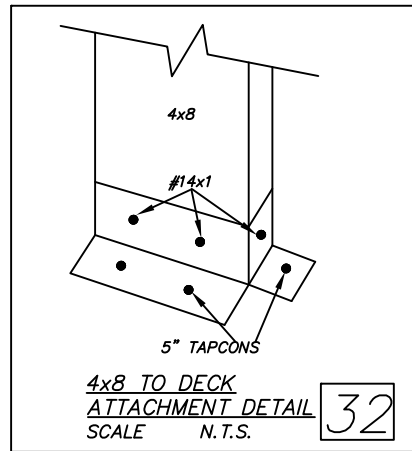
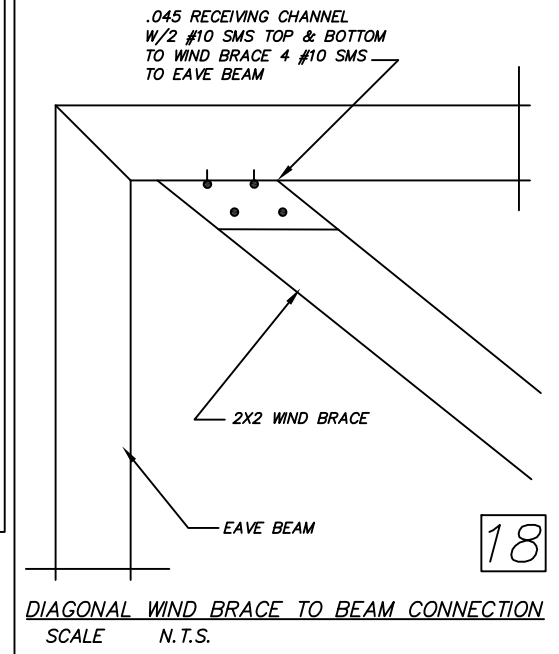
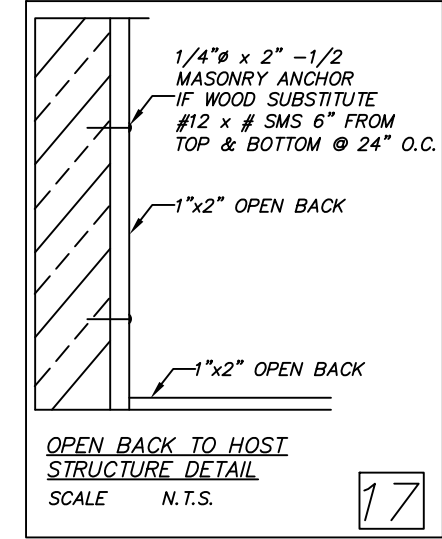
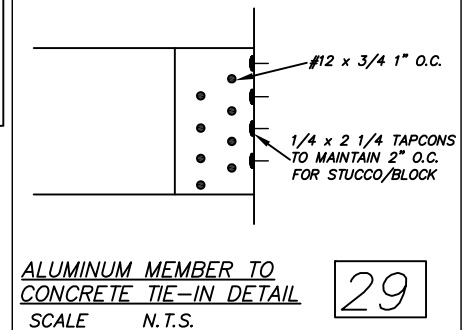
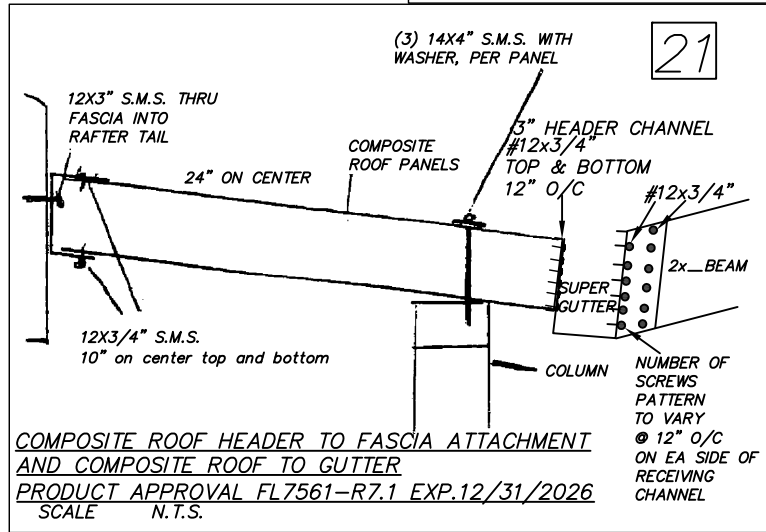
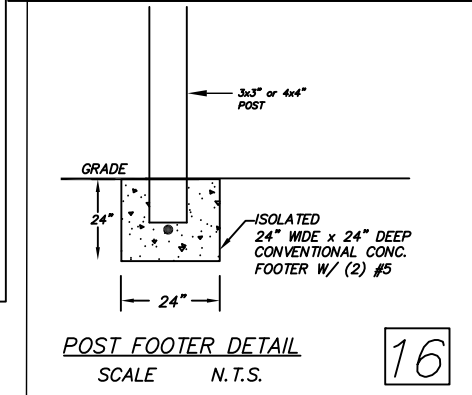
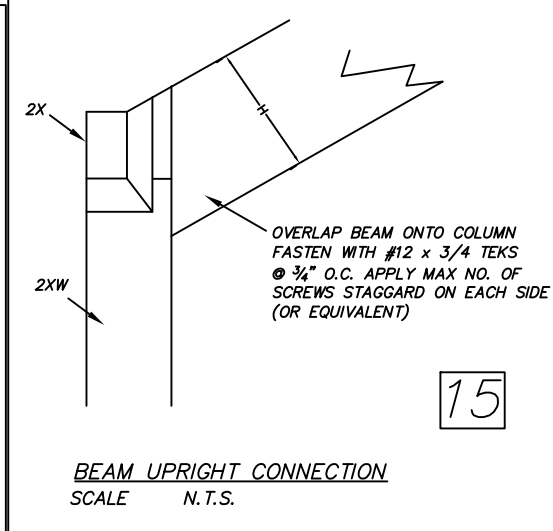
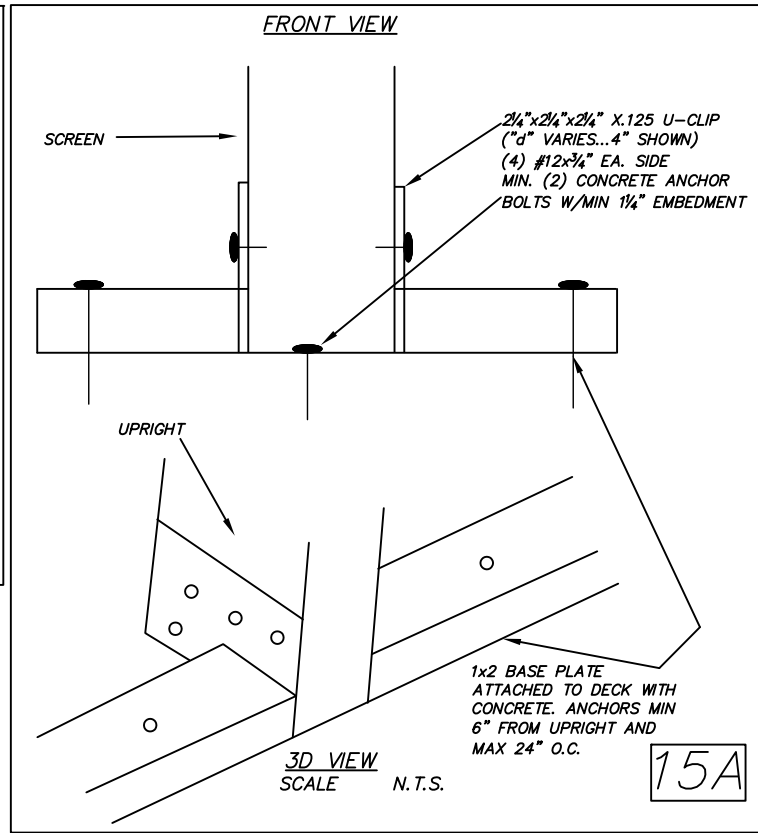
RAM GOEL, P.E.(#47431)
SONEY FM LLC, CA#9746
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD. STE P
TAMPA, FL 33647
Ph.# 715-781-1822



A-2
DETAILS



CONTRACTOR	RAM GOEL, P.E.(#47431) SONEY FM LLC, CA#9746 CORY LAKE PROFESSIONAL CENTER 10329 CROSS CREEK BLVD. STE P TAMPA, FL 33647 Ph.# 715-781-1822	PROJECT ADDRESS COX 400 N SHORE RD LONGBOAT KEY, FL 34228
ABEND HOMES INC. CRC1335078		



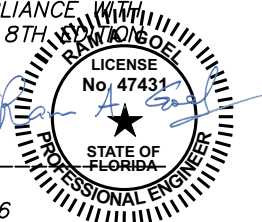
Standard Screen Door Specifications		
Specifications:		
Material	6063-T Aluminum Extrusions	
Main Frame	1" x 2" x .040 wall thickness; hollow serrated extrusions	
Push Bar	1" x 3" x .040 wall thickness; with areas at .090" to add strength for closure installation	
Kick Bar	1-1/4" x 1" hollow extrusion	
Kick Plate (Coil)	.024" Thick, installed with white or bronze polypropylene snap in vinyl	
Color	White, bronze, clear anodized, ivory, adobe (clay)	
Hardware	Standard hardware kits; available in white, bronze, silver, adobe (clay), and ivory	
Available Screen	18/14 Charcoal or gray	
Available Z-bar	Half-Z, Full-Z, and Full-Z Weather Strip, (Standard with 3 hinges)	
Door Sizes:		
Standard	Nominal: 3/0 x 6/8	Actual: 35-5/8" x 79-1/2"
	Nominal: 2/8 x 6/8	Actual: 31-5/8" x 79-1/2"
	Nominal: 2/6 x 6/8	Actual: 29-5/8" x 79-1/2"
Custom	All units are available in special sizes!	

This item has been electronically signed and sealed by Ram Goel using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and signature must be verified on any electronic copies

I HEREBY CERTIFY THAT I HAVE REVIEWED AND SUPERVISED THE ATTACHED DESIGN AND FOUND IT TO BE IN COMPLIANCE WITH THE 2023 F.B.C. RESIDENTIAL 8TH EDITION

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CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD. STE P
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A-3
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2. Live Load of 5 PSF (Which is on Higher Side)
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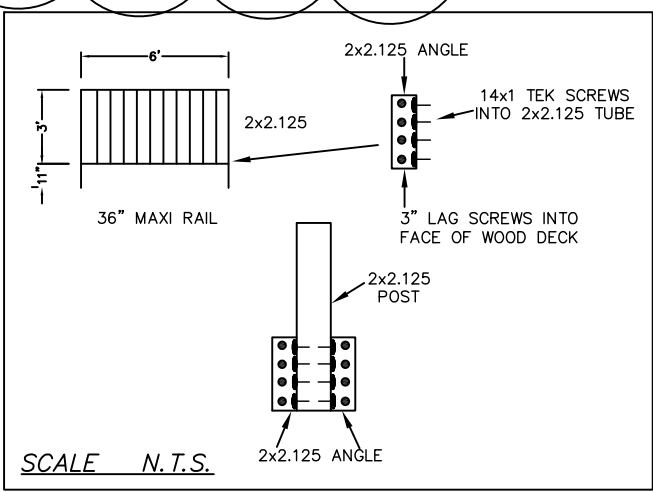
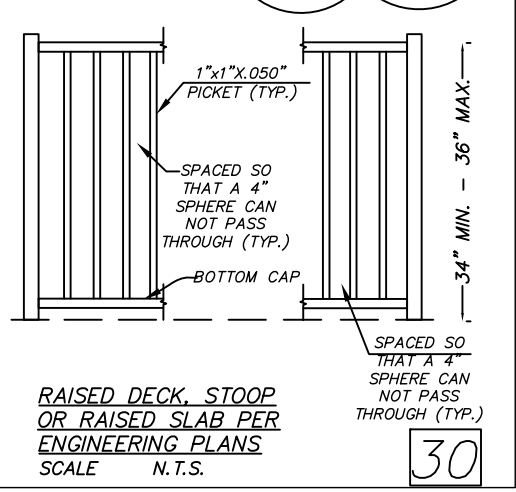
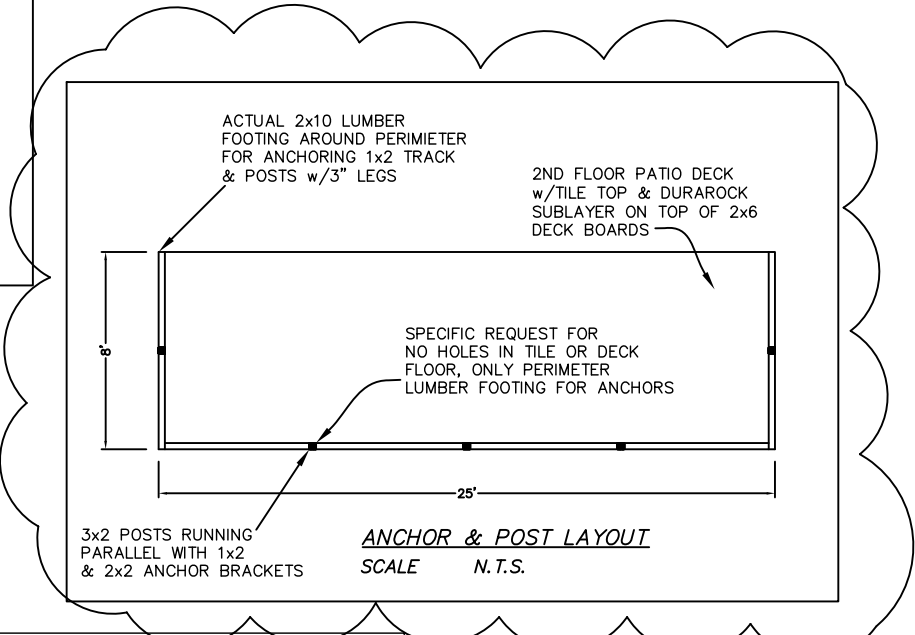
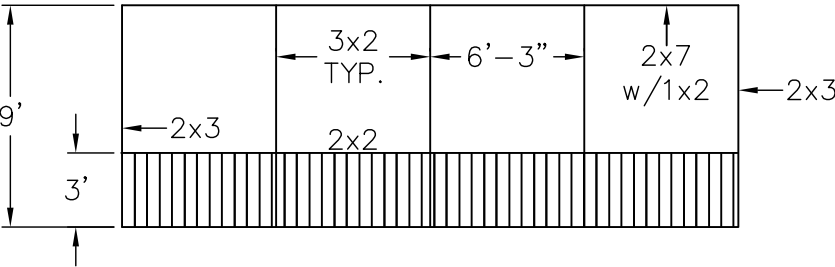
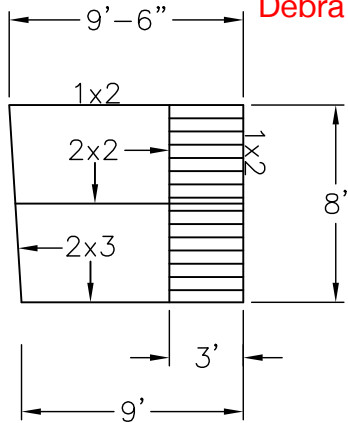
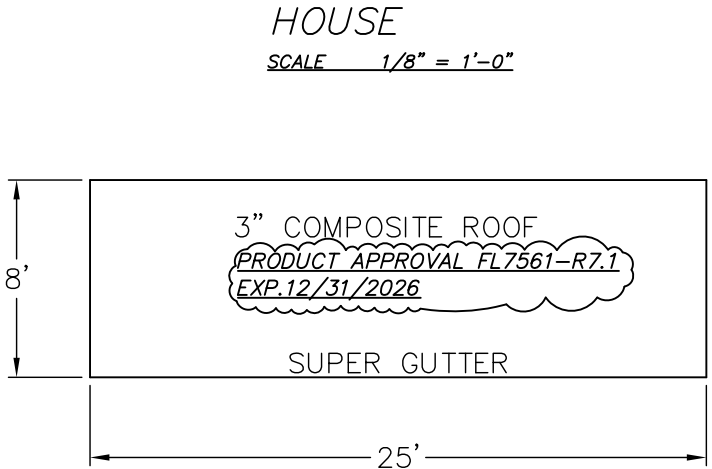
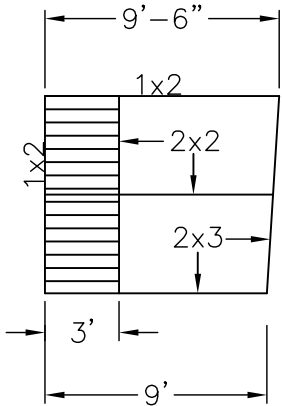
SUBJECT TO FIELD REVIEW BY INSPECTOR



4/21/2026, 4:57:42 PM

BR-SCRN-26-0004

Debra Klahr



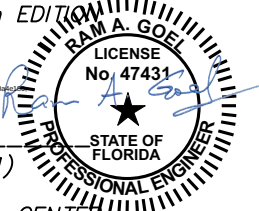
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Ram Goel

Digitally signed by Ram Goel
DN: cn=Ram Goel, o=SONEY FM LLC, ou=CA#9746, email=ramgoel@sonety.com, c=US
Date: 2026.04.15 16:07:17 -0400

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A-1
PLAN

ALUMINUM MEMBERS DIMENSIONS

HOLLOW SECTIONS

2X2: 2"x2"x0.044"
2X3: 2"x3"x0.050"
2X4: 2"x4"x0.050"
2X5: 2"x5"x0.050"

OPEN BACK SECTIONS

1X2: 1"x2"x0.040"
1X3: 1"x2"x0.045"

SNAP SECTIONS

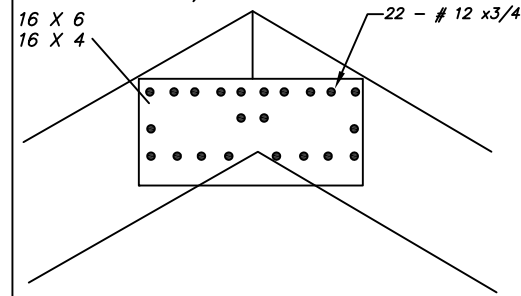
2X2 Snap: 2"x2"x0.045"
2x3 Snap: 2"x3"x0.050
2x4 Snap: 2"x4"x0.045"

SELF MATING (SMB)

2X4 SMB: 2"x4"x0.044"x0.100"
2X5 SMB: 2"x5"x0.050"x0.100"
2X6 SMB: 2"x6"x0.055"x0.120"
2X7 SMB: 2"x7"x0.057"x0.120"
2X8 SMB: 2"x8"x0.072"x0.124"
2X9 SMB: 2"x10"x0.092"x0.398"

ALUMINUM MEMBERS SHALL BE NOT LESS THAN 0.040 INCHES (1 mm) THICK - FBC 2023 8TH EDITION 2002.3.1 BUILDING

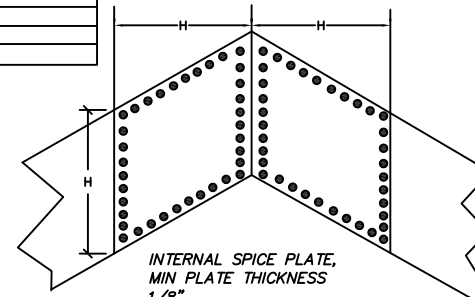
GUSSET DIMENSIONS 1/8"



EXTERNAL GUSSET DETAIL
SCALE N.T.S.

1

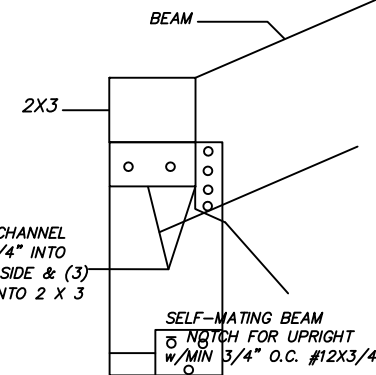
GUSSET	FASTENERS PER SIDE #10 3/4
2X4	12
2X5	14
2X6	16
2X7	18
2X8	20
2X9	22
2X10	24



INTERNAL GUSSET DETAIL
SCALE N.T.S.

1A

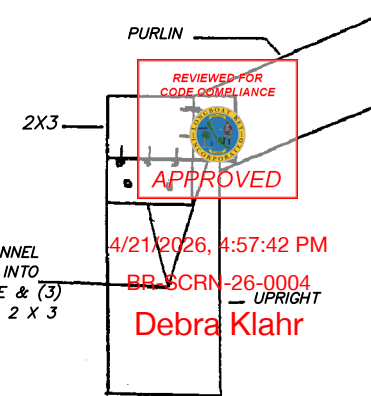
RECEIVING CHANNEL
W/2 #12X3/4" INTO
GIRT EACH SIDE & (3)
#12X3/4" INTO 2 X 3



UPRIGHT TO BEAM CONNECTION DETAIL
SCALE N.T.S.

2

RECEIVING CHANNEL
W/2 #10X3/4" INTO
GIRT EACH SIDE & (3)
#12X3/4" INTO 2 X 3



SLOPED PURLIN CONNECTION DETAIL
SCALE N.T.S.

3

WIND PRESSURES:

FROM TABLE 2002.4 FBC

EXPOSURE B:

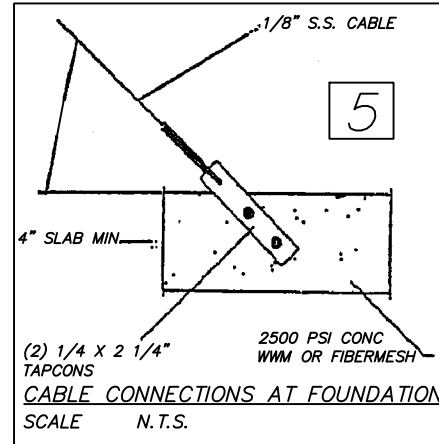
HORIZONTAL (WINDWARD) 27PSF
HORIZONTAL (LEEWARD) 21PSF

VERTICAL (SCREEN SURFACE) 8PSF
VERTICAL (SOLID SURFACE) 23PSF

EXPOSURE C:

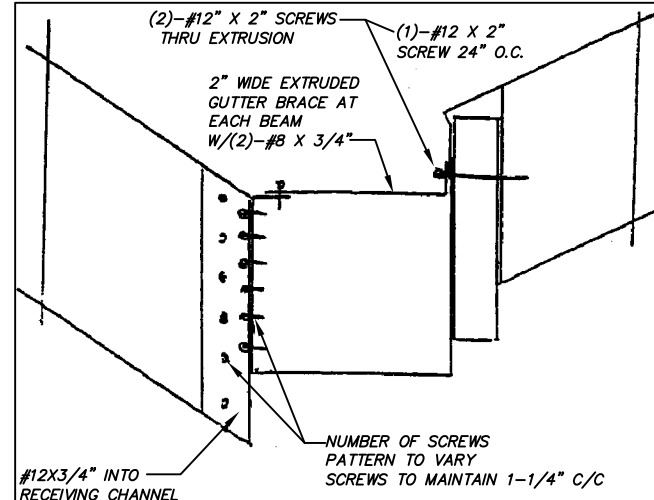
HORIZONTAL (WINDWARD) 38PSF
HORIZONTAL (LEEWARD) 29PSF

VERTICAL (SCREEN SURFACE) 11PSF
VERTICAL (SOLID SURFACE) 32PSF



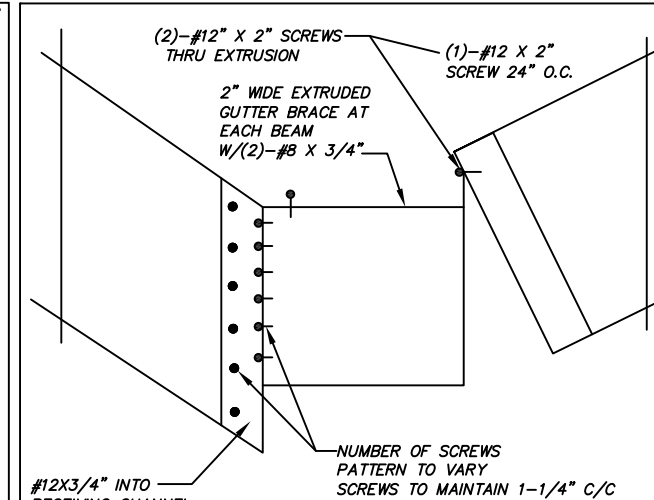
CABLE CONNECTIONS AT FOUNDATION
SCALE N.T.S.

5



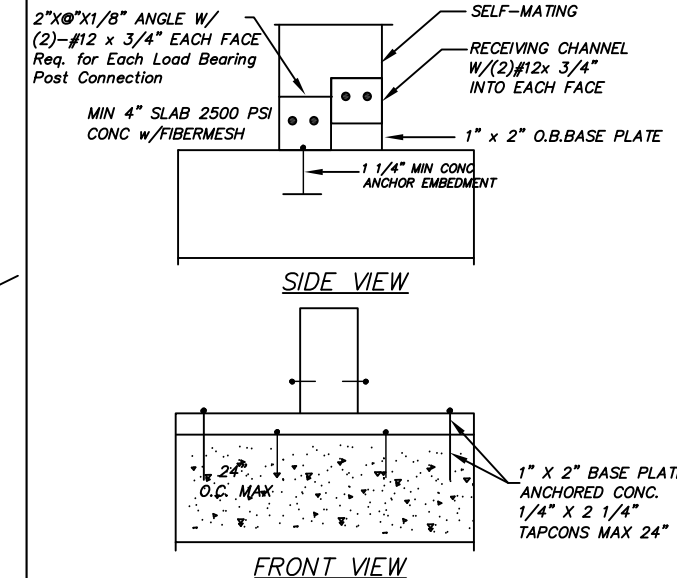
GUTTER BRACE & MATING ELEMENT
ATTACHMENT DETAIL
SCALE N.T.S.

6



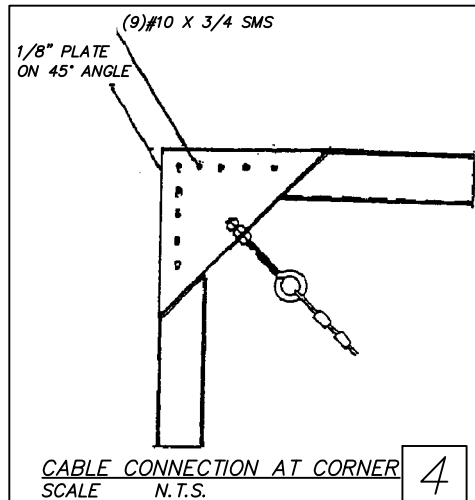
GUTTER BRACE & ANGLED FASCIA BOARD
ATTACHMENT DETAIL
SCALE N.T.S.

7



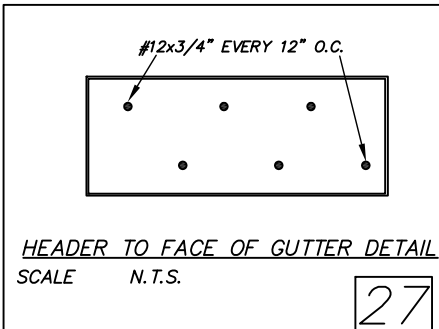
2" X 4" OR LARGER UPRIGHT TO DECK DETAILS
SCALE N.T.S.

8



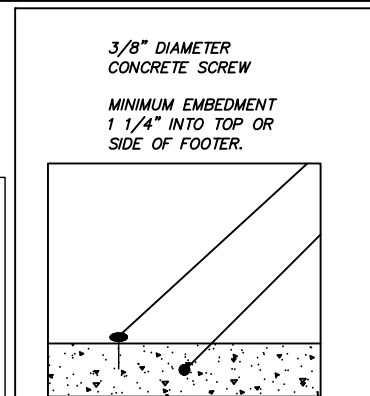
CABLE CONNECTION AT CORNER
SCALE N.T.S.

4



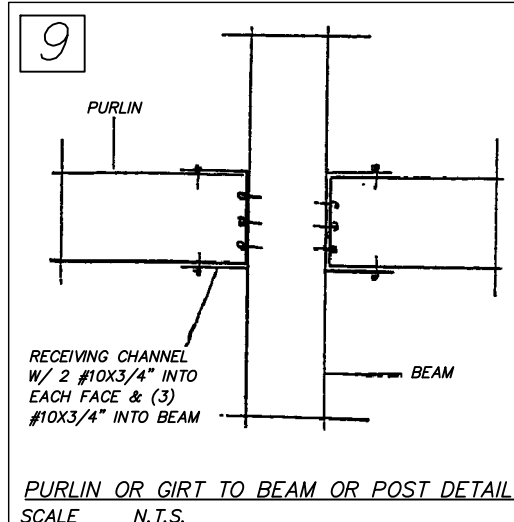
HEADER TO FACE OF GUTTER DETAIL
SCALE N.T.S.

27



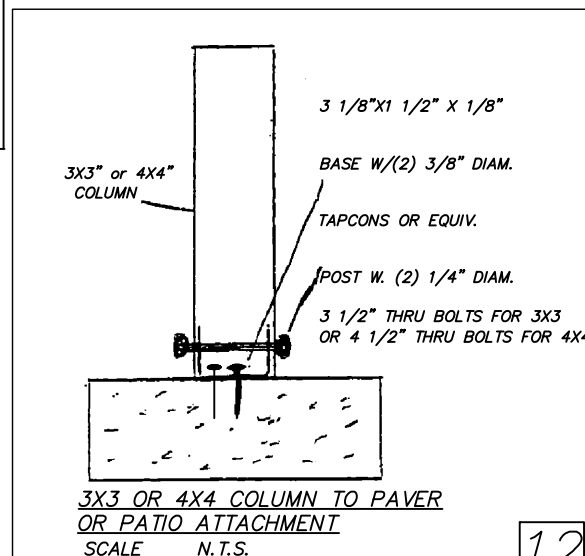
CABLE TO FOOTER
SCALE N.T.S.

11



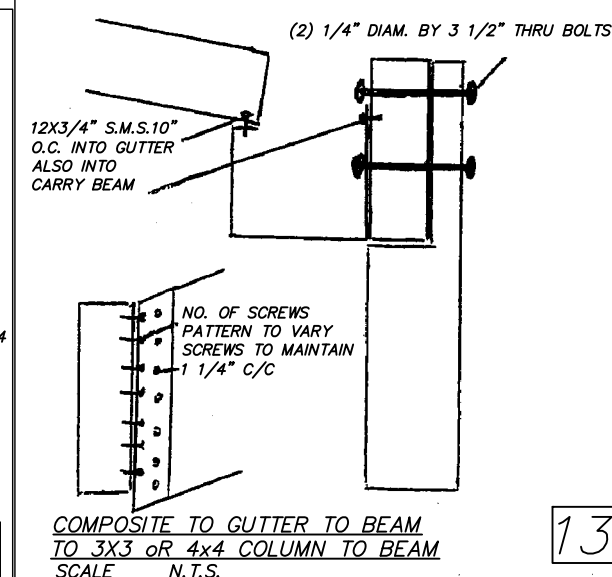
PURLIN OR GIRT TO BEAM OR POST DETAIL
SCALE N.T.S.

9



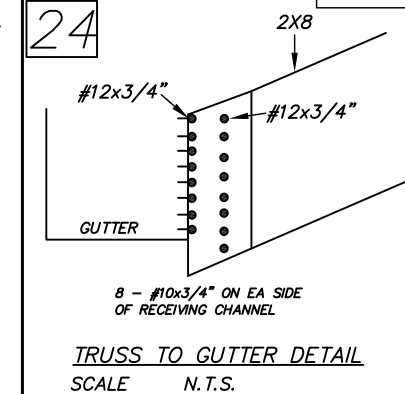
3X3 OR 4X4 COLUMN TO PAVER
OR PATIO ATTACHMENT
SCALE N.T.S.

12



COMPOSITE TO GUTTER TO BEAM
TO 3X3 OR 4X4 COLUMN TO BEAM
SCALE N.T.S.

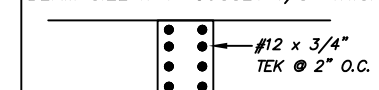
13



TRUSS TO GUTTER DETAIL
SCALE N.T.S.

24

BEAM SIZE x 4" GUSSET 1/8" THICK



OVERLAP SPICE DETAIL
SCALE N.T.S.

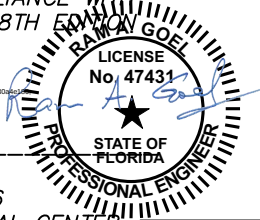
10

This item has been electronically signed and sealed by Ram Goel using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and signature must be verified on any electronic copies

I HEREBY CERTIFY THAT I HAVE REVIEWED AND SUPERVISED THE ATTACHED DESIGN AND FOUND IT TO BE IN COMPLIANCE WITH THE 2023 F.B.C. RESIDENTIAL 8TH EDITION

Ram Goel

RAM GOEL, P.E.(#47431)
SONEY FM LLC, CA#9746
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD. STE P
TAMPA, FL 33647
Ph.# 715-781-1822



A-2
DETAILS

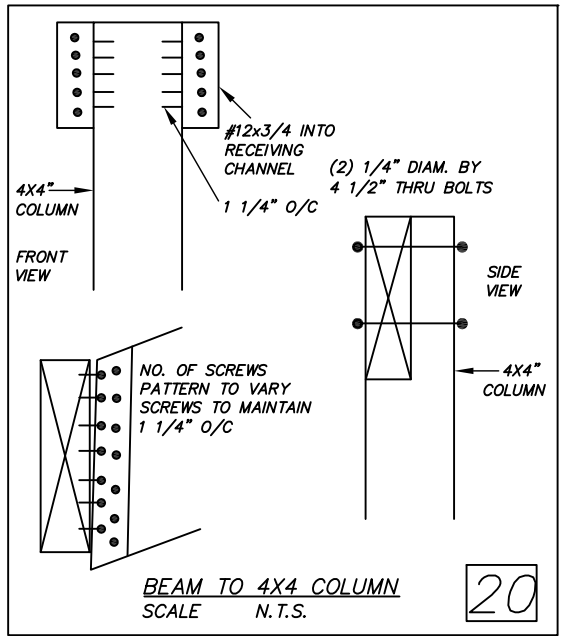
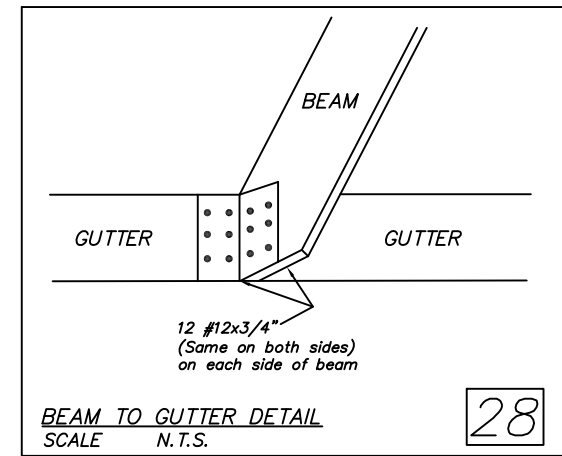
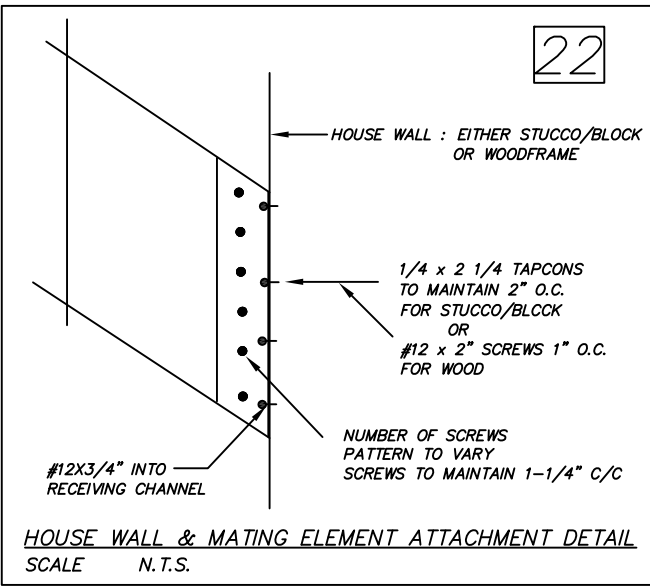
CONTRACTOR

ABEND HOMES INC.
CRC1335078

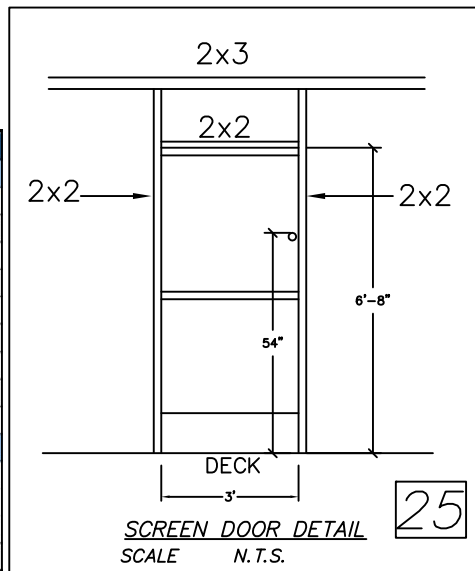
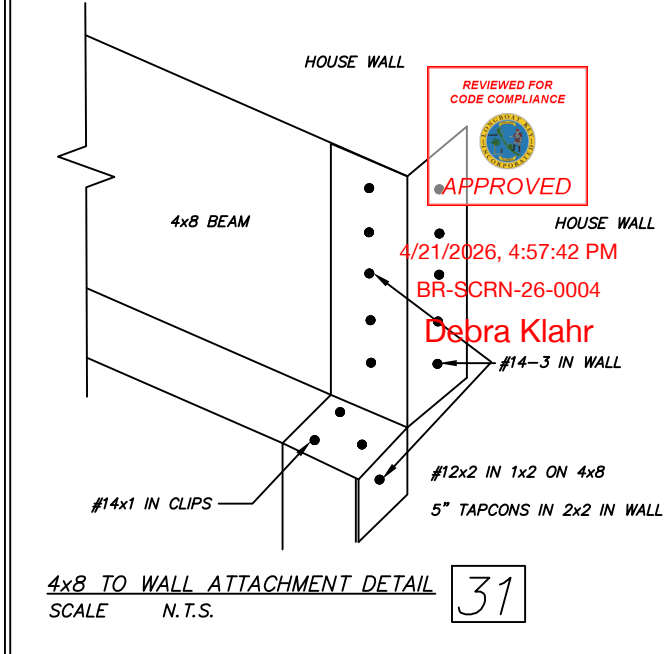
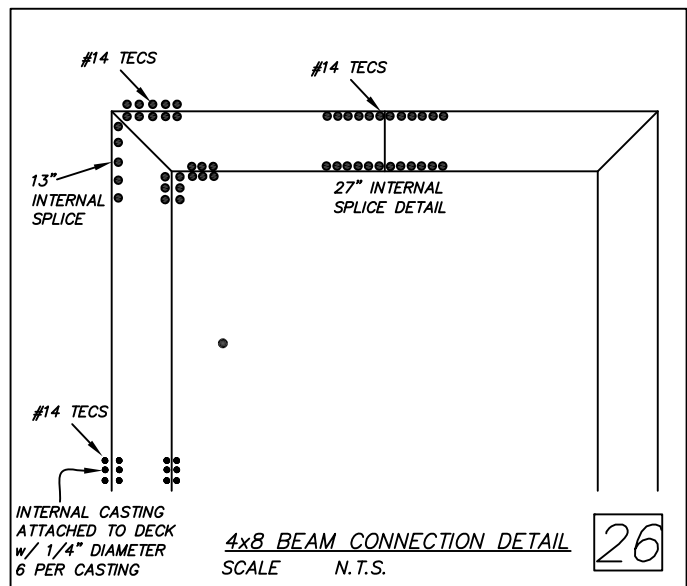
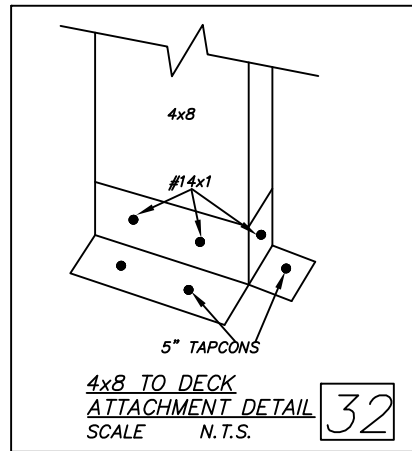
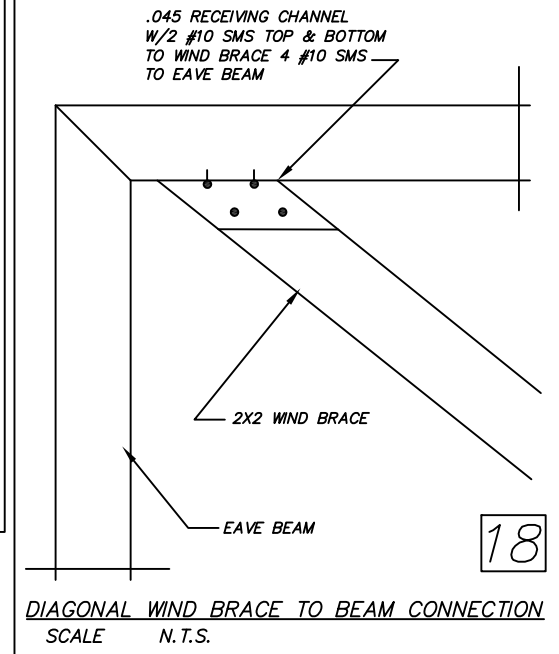
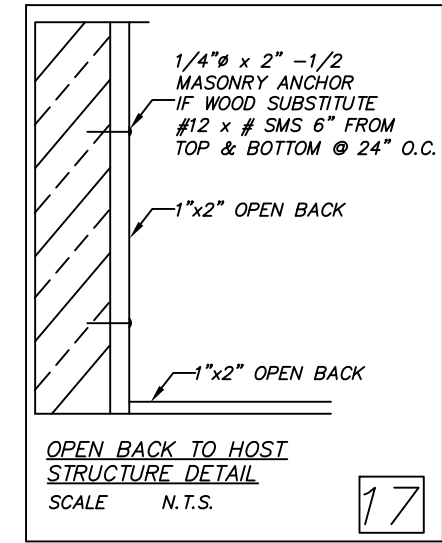
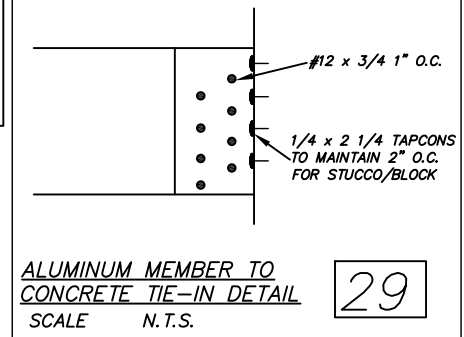
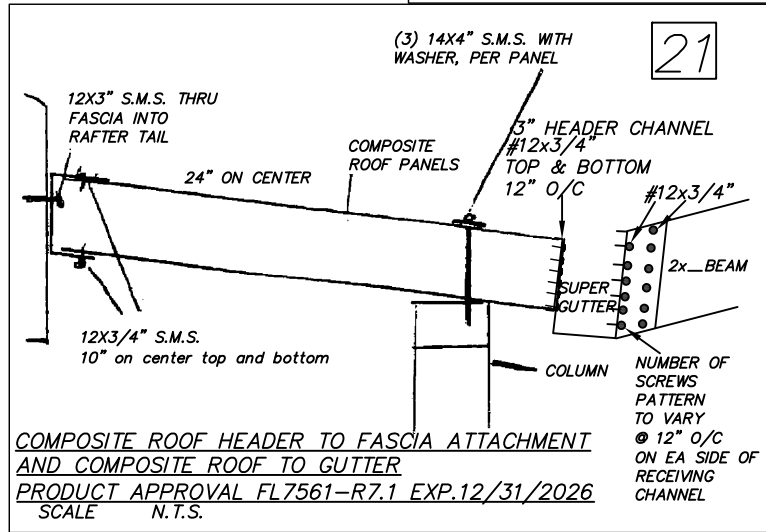
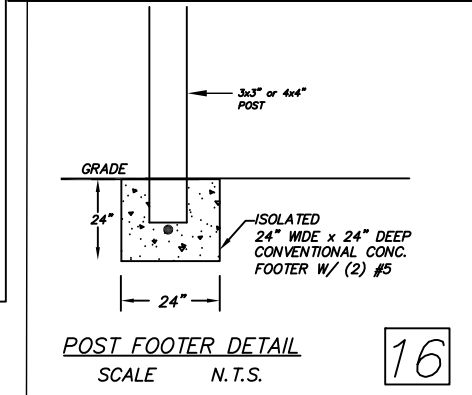
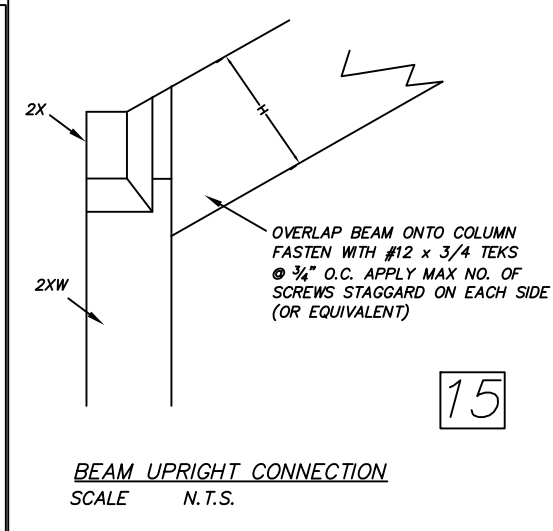
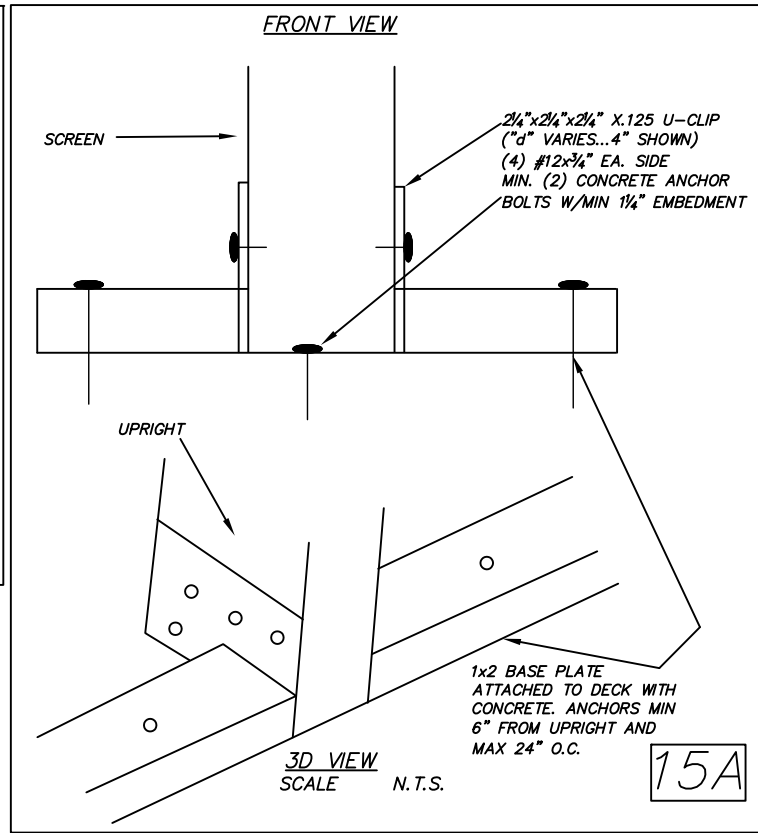
RAM GOEL, P.E.(#47431)
SONEY FM LLC, CA#9746
CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD. STE P
TAMPA, FL 33647
Ph.# 715-781-1822

PROJECT ADDRESS

COX
400 N SHORE RD
LONGBOAT KEY, FL 34228



CONTRACTOR	RAM GOEL, P.E.(#47431) SONEY FM LLC, CA#9746 CORY LAKE PROFESSIONAL CENTER 10329 CROSS CREEK BLVD. STE P TAMPA, FL 33647 Ph.# 715-781-1822	PROJECT ADDRESS COX 400 N SHORE RD LONGBOAT KEY, FL 34228
ABEND HOMES INC. CRC1335078		



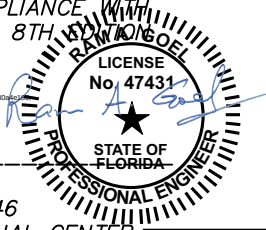
Standard Screen Door Specifications		
Specifications:		
Material	6063-T Aluminum Extrusions	
Main Frame	1" x 2" x .040 wall thickness; hollow serrated extrusions	
Push Bar	1" x 3" x .040 wall thickness; with areas at .090" to add strength for closure installation	
Kick Bar	1-1/4" x 1" hollow extrusion	
Kick Plate (Coil)	.024" Thick, installed with white or bronze polypropylene snap in vinyl	
ish Color	White, bronze, clear anodized, ivory, adobe (clay)	
Hardware	Standard hardware kits; available in white, bronze, silver, adobe (clay), and ivory	
Available Screen	18/14 Charcoal or gray	
Available Z-bar	Half-Z, Full-Z, and Full-Z Weather Strip, (Standard with 3 hinges)	
Door Sizes:		
Standard	Nominal: 3/0 x 6/8	Actual: 35-5/8" x 79-1/2"
	Nominal: 2/8 x 6/8	Actual: 31-5/8" x 79-1/2"
	Nominal: 2/6 x 6/8	Actual: 29-5/8" x 79-1/2"
Custom	All units are available in special sizes!	

This item has been electronically signed and sealed by Ram Goel using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and signature must be verified on any electronic copies

I HEREBY CERTIFY THAT I HAVE REVIEWED AND SUPERVISED THE ATTACHED DESIGN AND FOUND IT TO BE IN COMPLIANCE WITH THE 2023 F.B.C. RESIDENTIAL 8TH EDITION

Ram Goel

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CORY LAKE PROFESSIONAL CENTER
10329 CROSS CREEK BLVD. STE P
TAMPA, FL 33647
Ph.# 715-781-1822



A-3
DETAILS

PROPERTY APPRAISER MAP

SUBJECT TO FIELD REVIEW BY INSPECTOR



4/21/2026, 4:58:14 PM
BR-SCRN-26-0004
Debra Klahr



PROJECT:	Cox Residence	REVISION HISTORY NOTES:	DRAWING NAME:	
ADDRESS:	400 N Shore Rd		JC-1	
CITY/STATE:	Longboat Key, FL 34228		PAGE NUMBER:	DATE:
DESIGNER:	LRW		1 of 5	4/14/26

EXISTING CONDITIONS



4/21/2026, 4:58:14 PM
BR-SCRN-26-0004
Debra Klahr

REPLACE DAMAGED SCREEN ROOM
W/COMPOSITE ROOF PANELS ON
EXISTING WOOD DECK STRUCTURE



PROJECT:	Cox Residence	REVISION HISTORY NOTES:	DRAWING NAME:	
ADDRESS:	400 N Shore Rd		JC-1	
CITY/STATE:	Longboat Key, FL 34228		PAGE NUMBER:	DATE:
DESIGNER:	LRW		2 of 5	4/14/26

EXISTING CONDITIONS



INSTALL SCREEN ROOM
W/ COMPOSITE ROOF PANELS
ON EXISTING WOOD DECK
STRUCTURE

EXISTING 2X10 SOLID WOOD
BEAM PERIMETER FOR SCREEN
ROOM ANCHORING



4/21/2026, 4:58:14 PM
BR-SCRN-26-0004
Debra Klahr

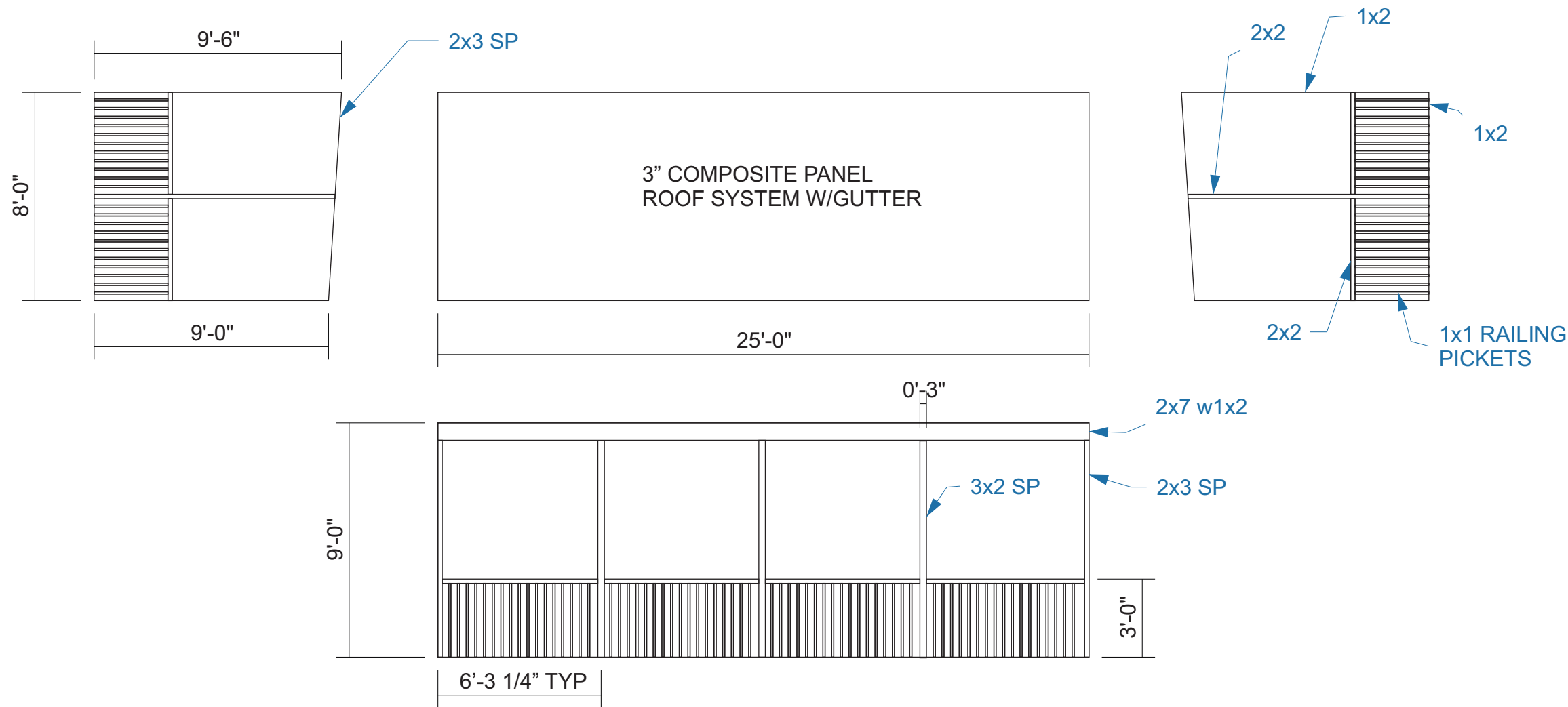
7' FROM GRADE TO TOP OF DECK



PROJECT: ADDRESS: CITY/STATE: DESIGNER:	Cox Residence 400 N Shore Rd Longboat Key, FL 34228 LRW	REVISION HISTORY NOTES:		DRAWING NAME:	
				JC-1	
				PAGE NUMBER:	DATE:
				3 of 5	4/14/26

NEW STRUCTURE DETAILS

House

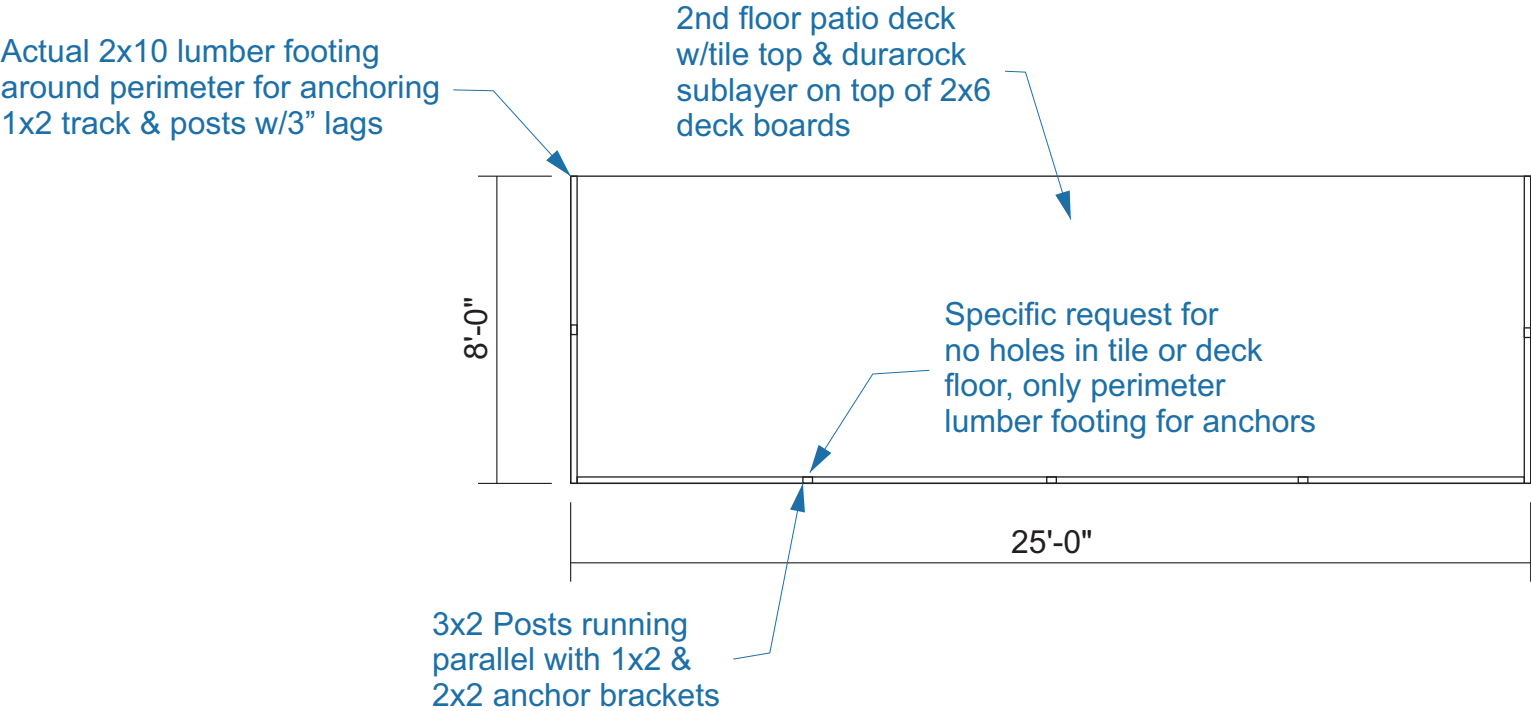


4/21/2026, 4:58:14 PM
BR-SCRN-26-0004
Debra Klahr



PROJECT: ADDRESS: CITY/STATE: DESIGNER:	Cox Residence	REVISION HISTORY NOTES:		DRAWING NAME:	
	400 N Shore Rd			JC-1	
	Longboat Key, FL 34228			PAGE NUMBER:	DATE:
	LRW			4 of 5	4/14/26

NEW STRUCTURE DETAILS (ANCHOR & POST LAYOUT)



4/21/2026, 4:58:14 PM
BR-SCRN-26-0004
Debra Klahr



PROJECT: ADDRESS: CITY/STATE: DESIGNER:	Cox Residence	REVISION HISTORY NOTES:	DRAWING NAME:	
	400 N Shore Rd		JC-1	
	Longboat Key, FL 34228		PAGE NUMBER:	DATE:
	LRW		4 of 5	4/14/26