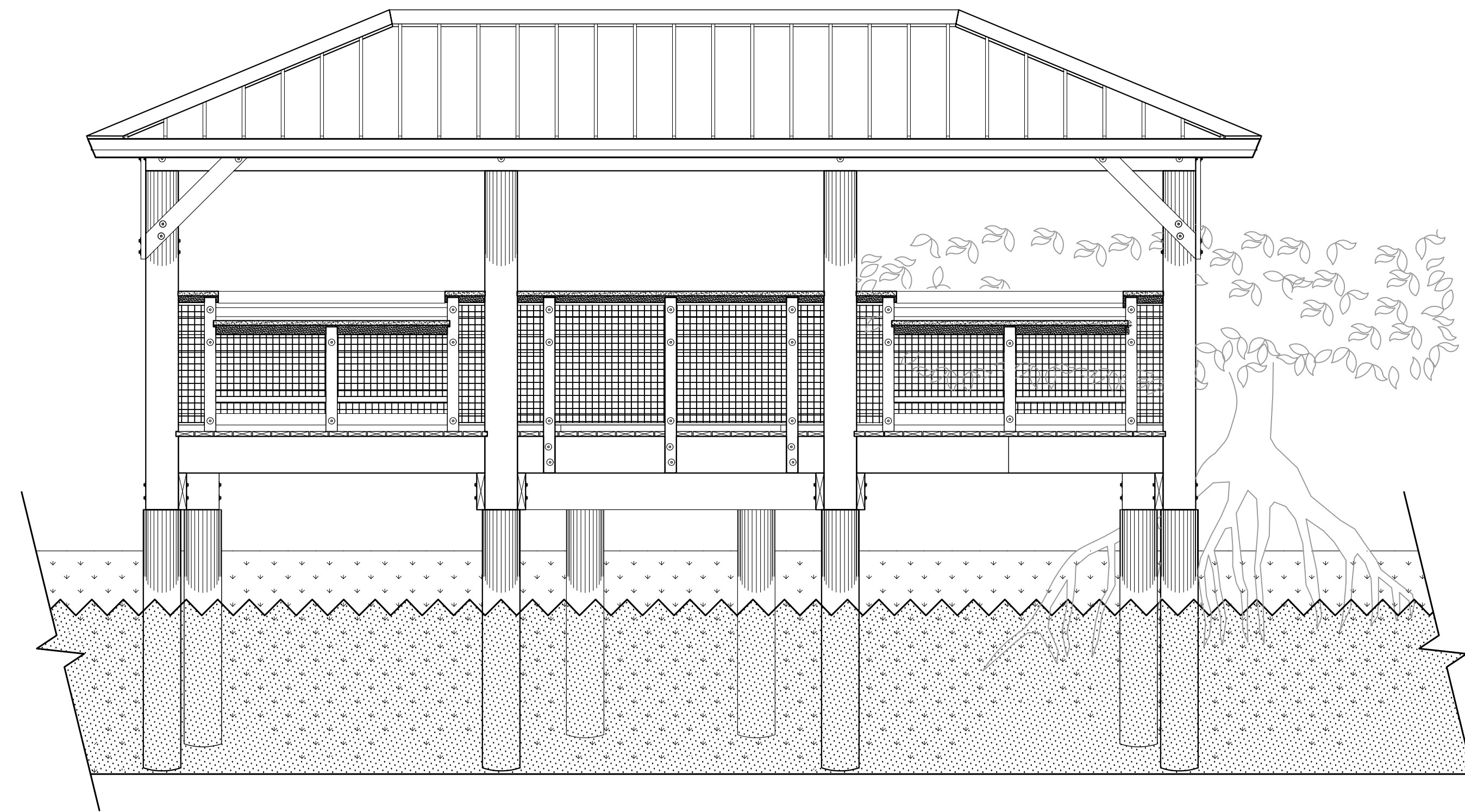


MATANZAS PASS PRESERVE BOARDWALK REPAIRS

FOR

FEMA DI# 1291129 LEE COUNTY, FLORIDA

199 BAY ROAD, FORT MYERS BEACH, FL 33931



PREPARED BY

THE WEILER ENGINEERING CORPORATION

201 WEST MARION AVENUE
 SUITE 1306
 PUNTA GORDA, FLORIDA 33950
 EB # 6656
 PHONE - 941-505-1700
 FAX - 941-505-1702

INDEX OF DRAWINGS

GENERAL	
G100.0	COVER SHEET
G101.0	GENERAL NOTES
STRUCTURAL DRAWINGS	
S100.0	BOARDWALK PLAN & AERIAL PLAN
S200.0	BOARDWALK SECTIONS
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S207.0	KIOSK DETAILS
S500.0	PILING INDEX

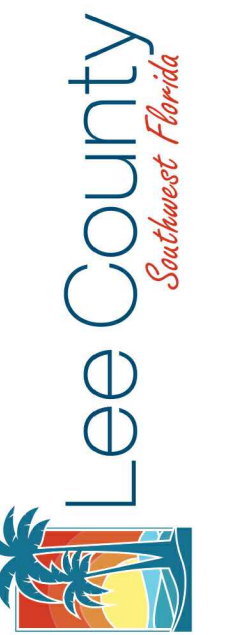
JOHNSON ENGINEERING

JOHNSON ENGINEERING, INC.
 2122 JOHNSON STREET
 FORT MYERS, FLORIDA 33901
 PHONE: (239) 334-0046
 E.B. #642 & L.B. #642



WEILER ENGINEERING CORP.
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NO.	REVISIONS DESCRIPTION	DATE

DATE: 03/04/2025
 PROJECT NO. 23095.001
 FILE NO. D# 1291129
 SCALE: AS SHOWN

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WIND PARAMETERS
 Method of Design: ASCE 7-22
 Building Risk Category: II
 Design Wind Speed: Ultimate V_{ult} = 159 MPH / Nominal V_{asd} = 123 MPH
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 Internal Pressure Coefficient: 0.00 (Open)
 Component & Cladding Wind Pressure: per Calcs
FLOOD PARAMETERS
 FEMA FIRM Map Number: 125125554G
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 Lateral Bearing Pressure: 1 TON PER PILE

COVER SHEET

SHEET NUMBER

G100.0

NO.	DESCRIPTION	DATE

DATE: 03/04/2025

PROJECT NO. 23095.001

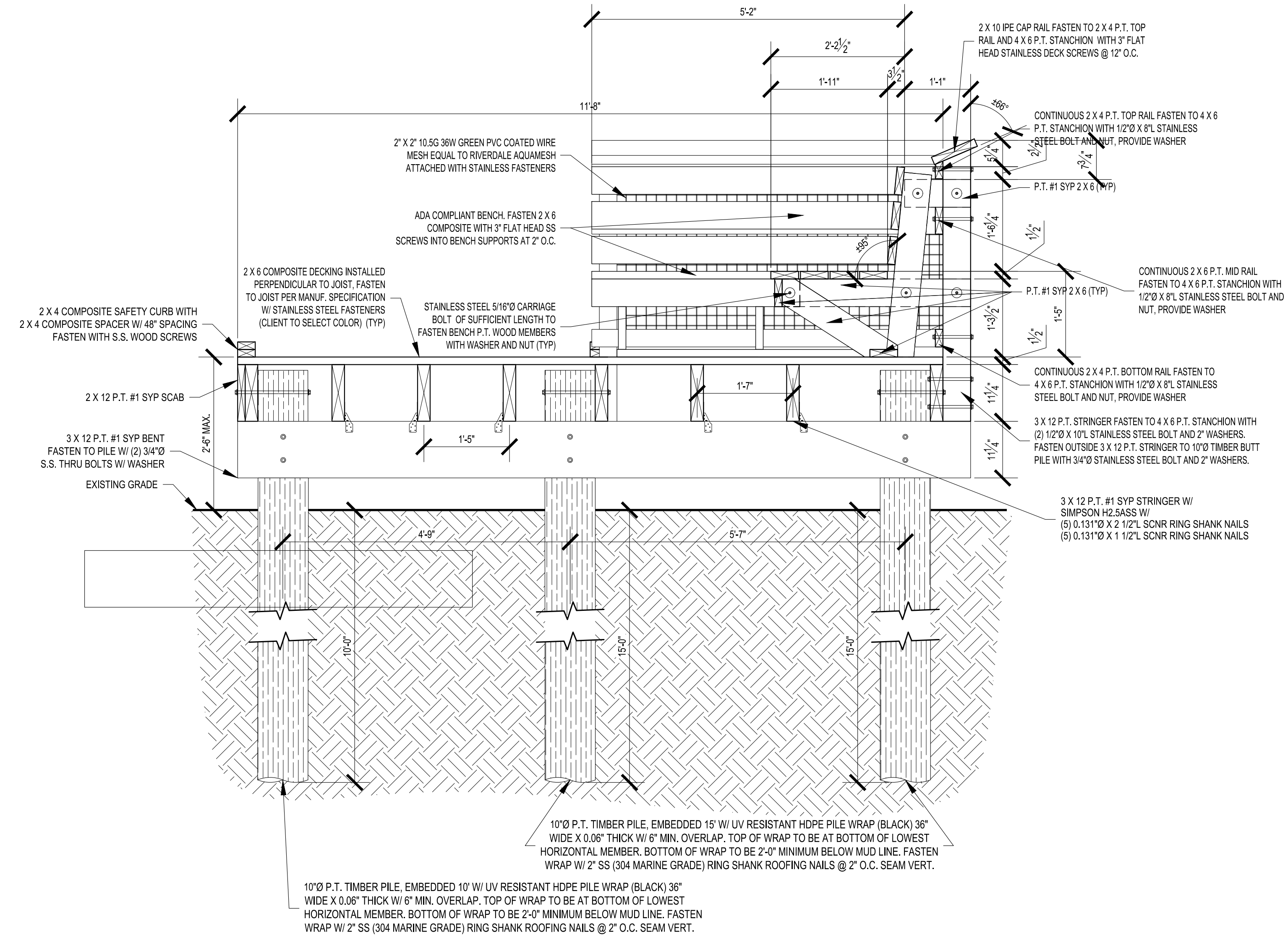
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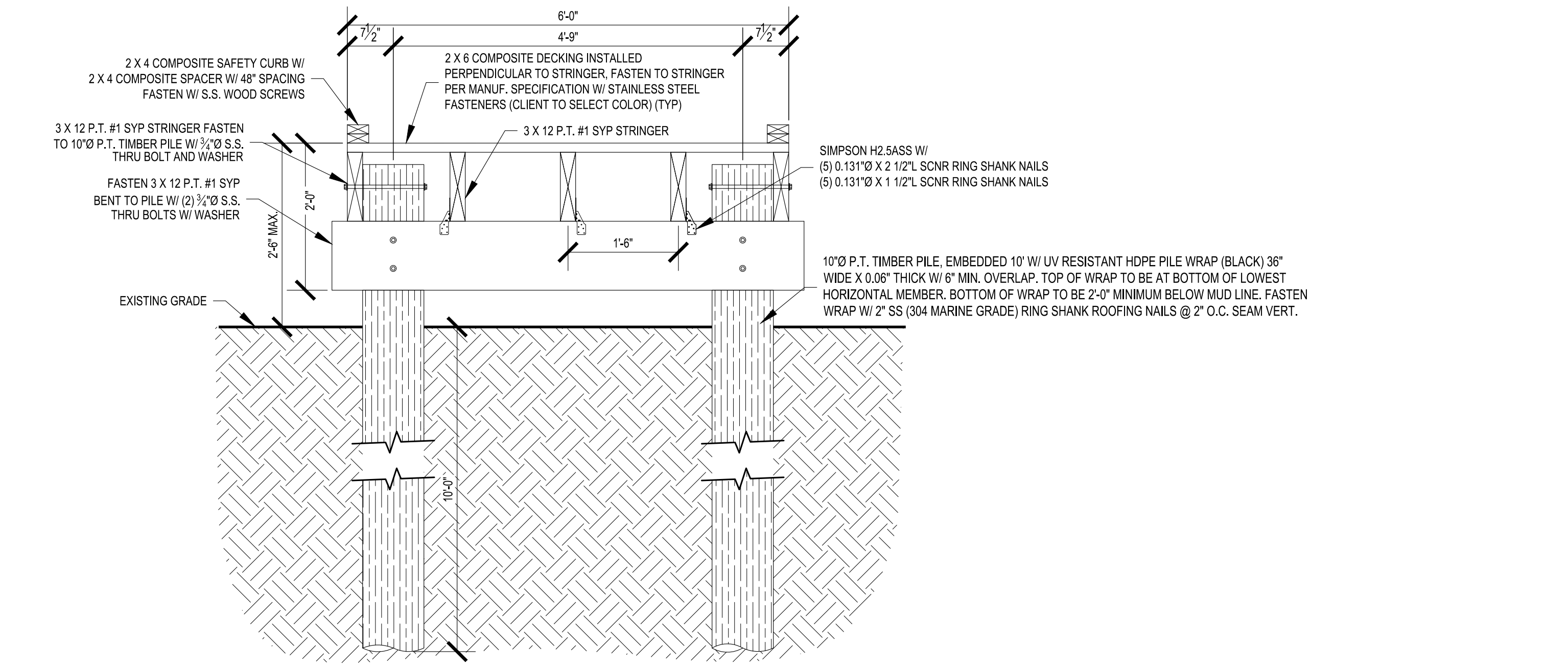
BOARDWALK SECTIONS

SHEET NUMBER

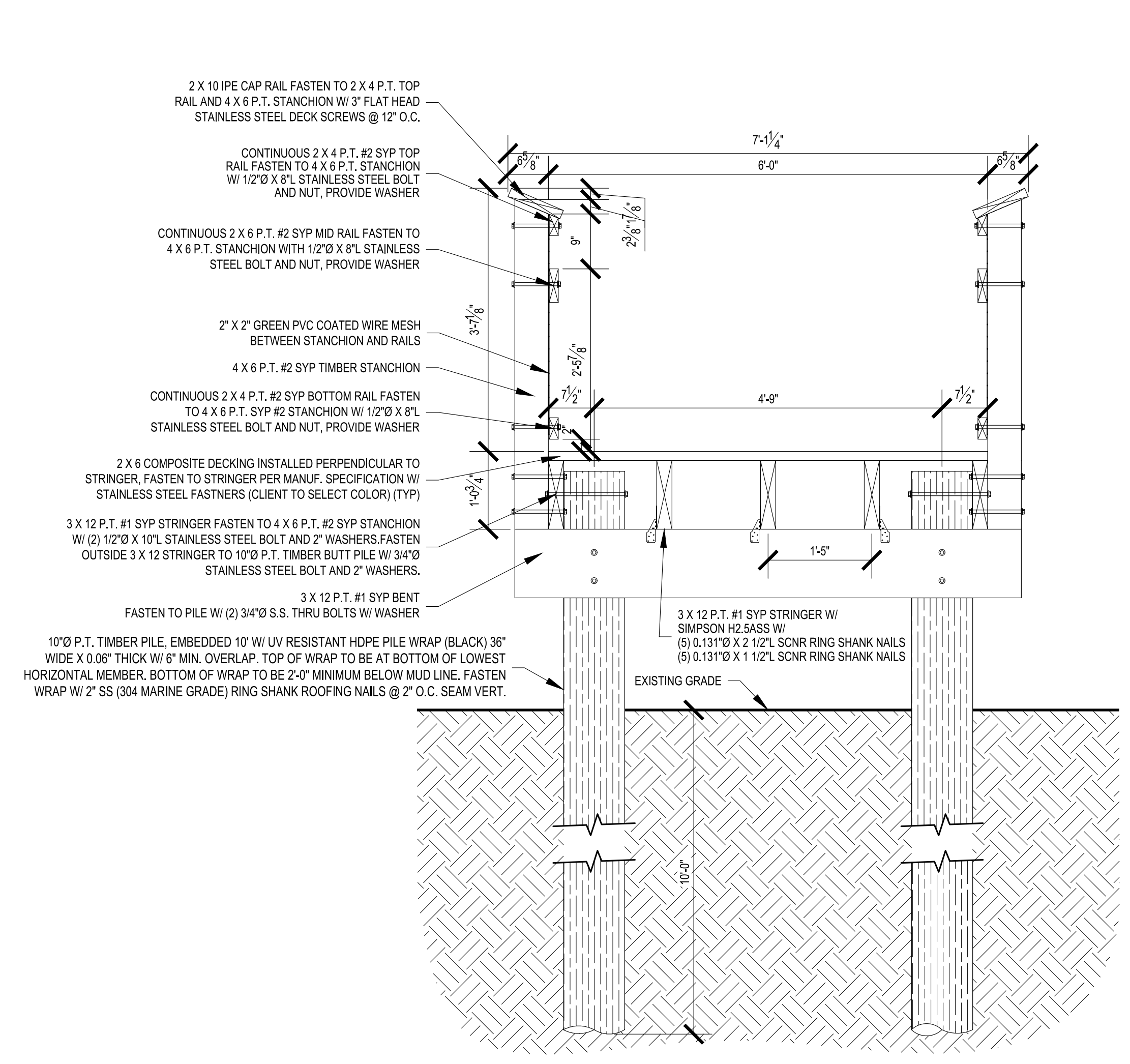
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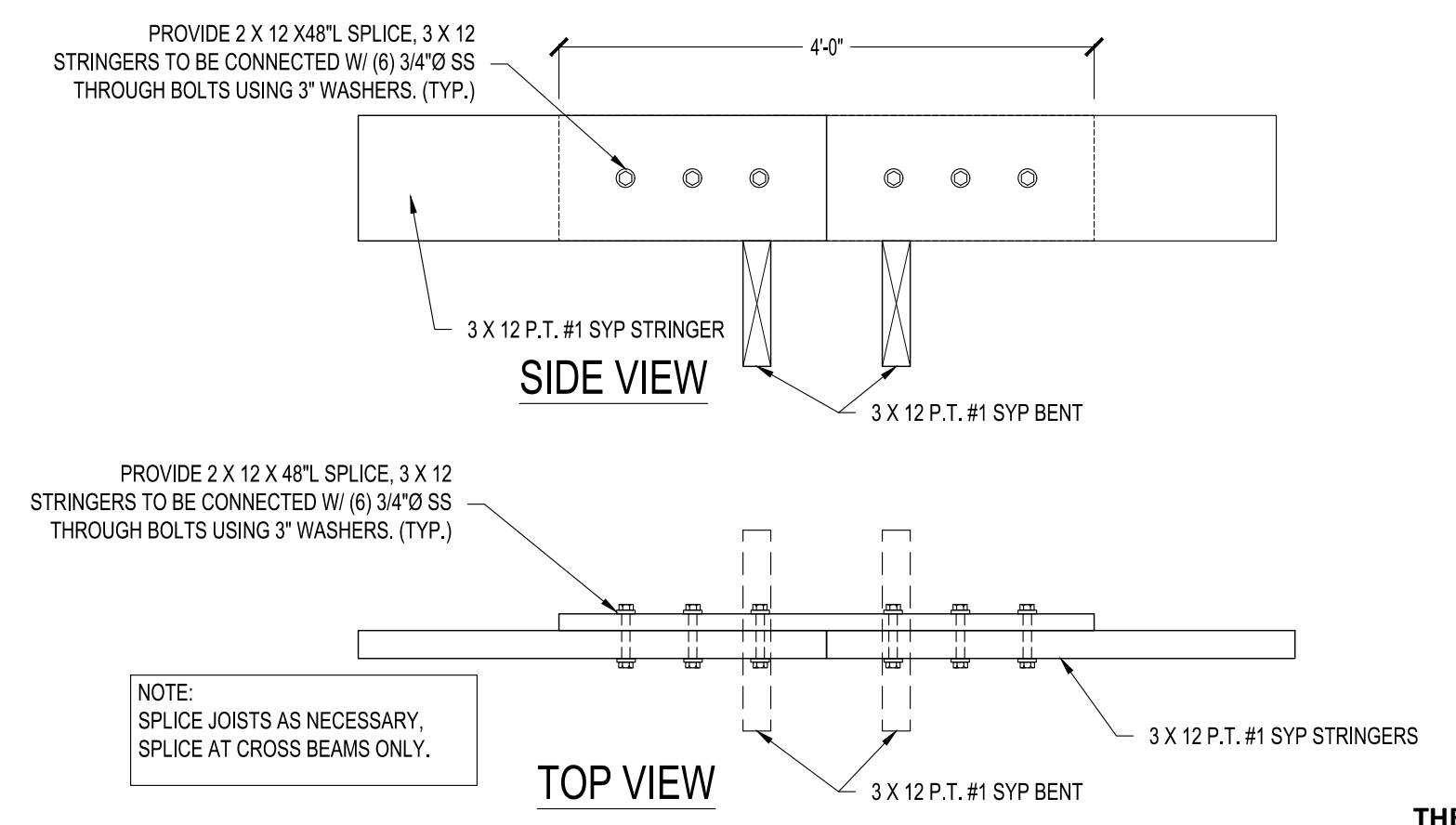
A TYPICAL BENCH PLATFORM SECTION
3/4" = 1'-0"



C TYPICAL 6' WIDE BOARDWALK SECTION
3/4" = 1'-0"



B TYPICAL 6' WIDE BRIDGE SECTION
3/4" = 1'-0"



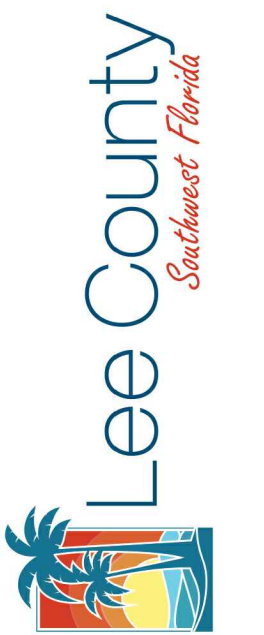
D TYPICAL SPLICE DETAIL
3/4" = 1'-0"

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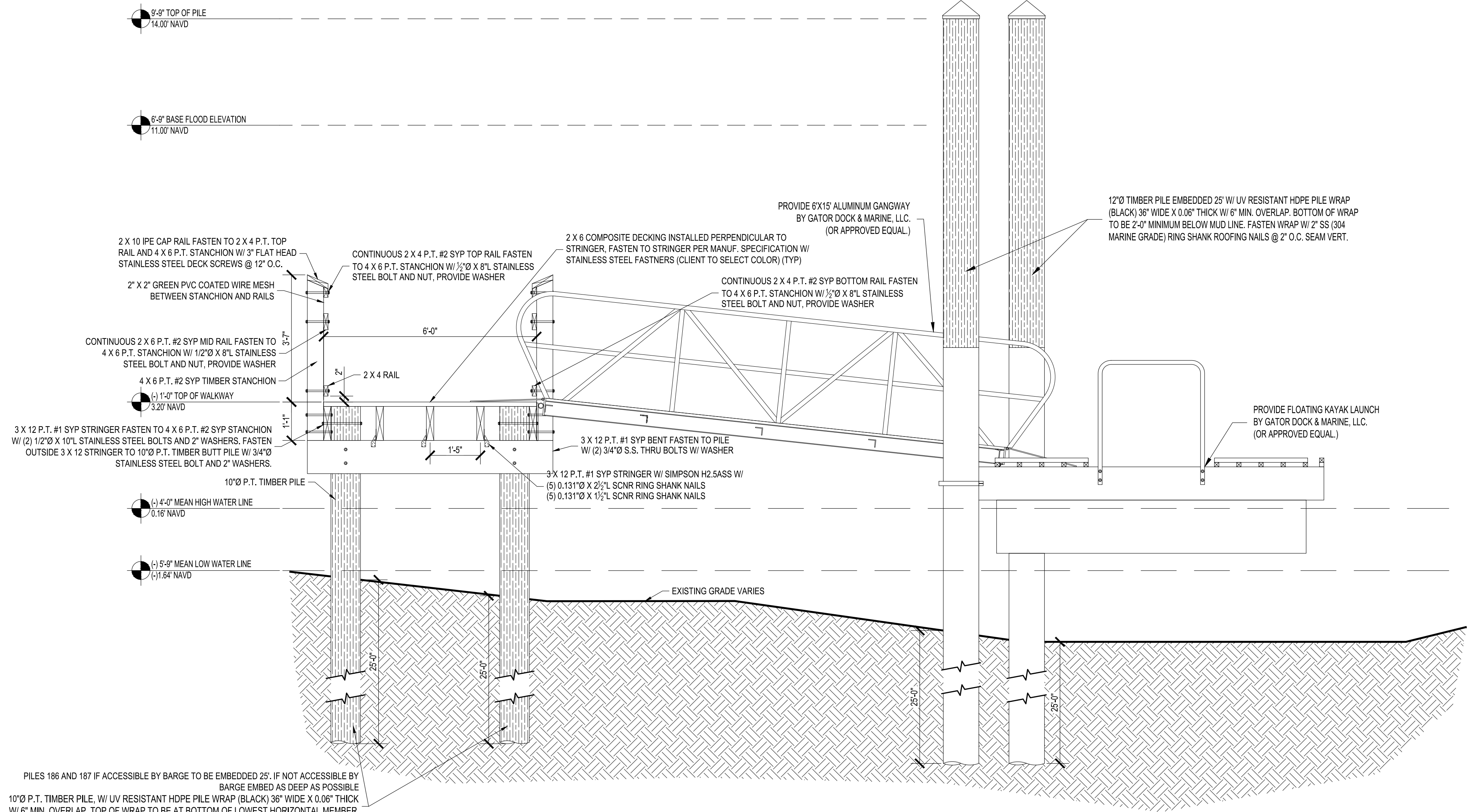
NO.	DESCRIPTION	DATE

DATE: 03/04/2025
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FILE NO. D# 1291129
SCALE: AS SHOWN

**BOARDWALK
SECTIONS**

SHEET NUMBER

S201.0



PILES 186 AND 187 IF ACCESSIBLE BY BARGE TO BE EMBEDDED 25'. IF NOT ACCESSIBLE BY BARGE EMBED AS DEEP AS POSSIBLE

10"Ø P.T. TIMBER PILE, W/ UV RESISTANT HDPE PILE WRAP (BLACK) 36" WIDE X 0.06" THICK W/ 6" MIN. OVERLAP. TOP OF WRAP TO BE AT BOTTOM OF LOWEST HORIZONTAL MEMBER. BOTTOM OF WRAP TO BE 2'-0" MINIMUM BELOW MUD LINE. FASTEN WRAP W/ 2" SS (304 MARINE GRADE) RING SHANK ROOFING NAILS @ 2' O.C. SEAM VERT.

A KAYAK LAUNCH SECTION
1/2" = 1'-0"

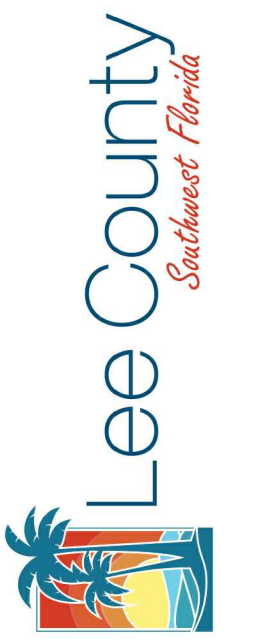
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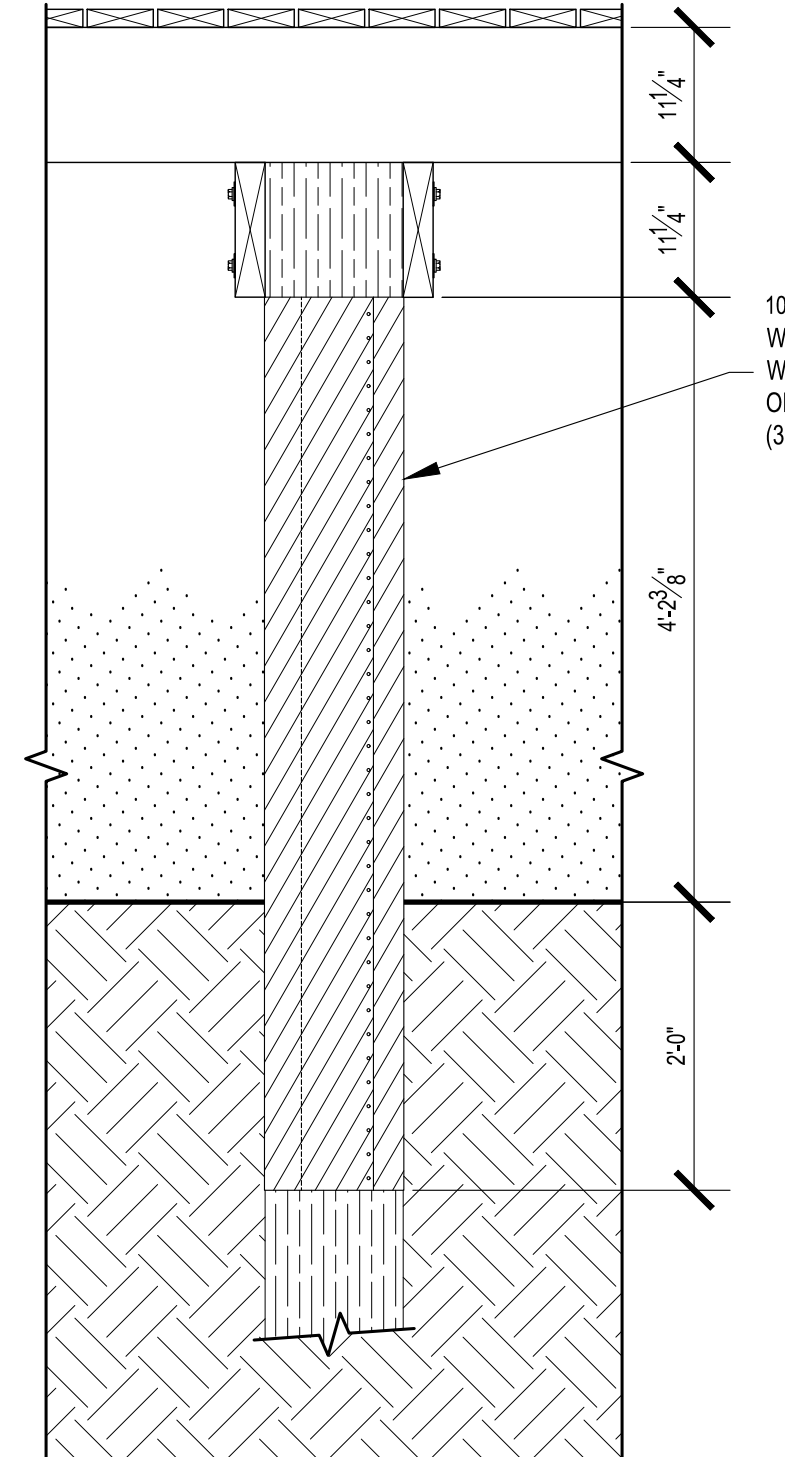
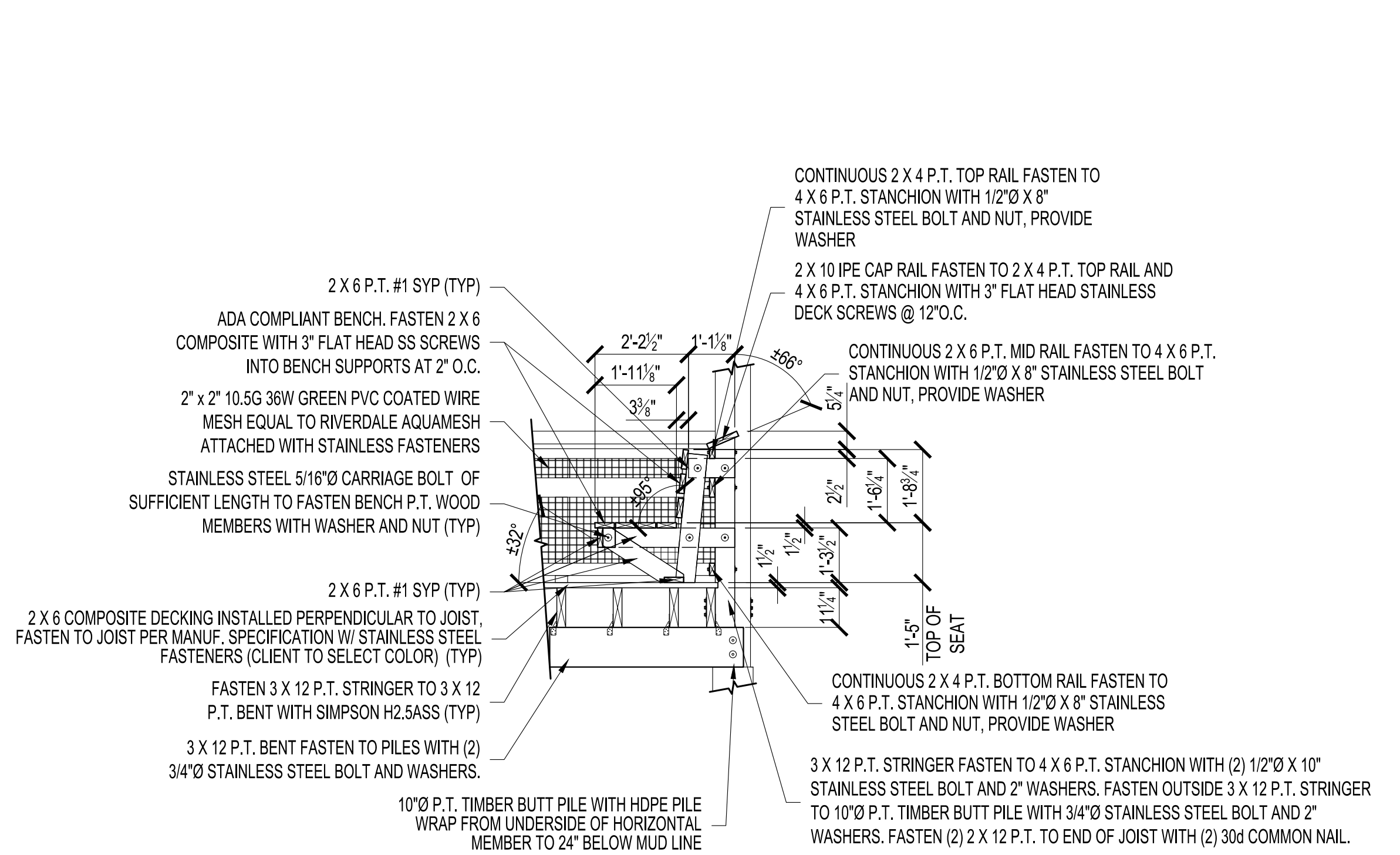
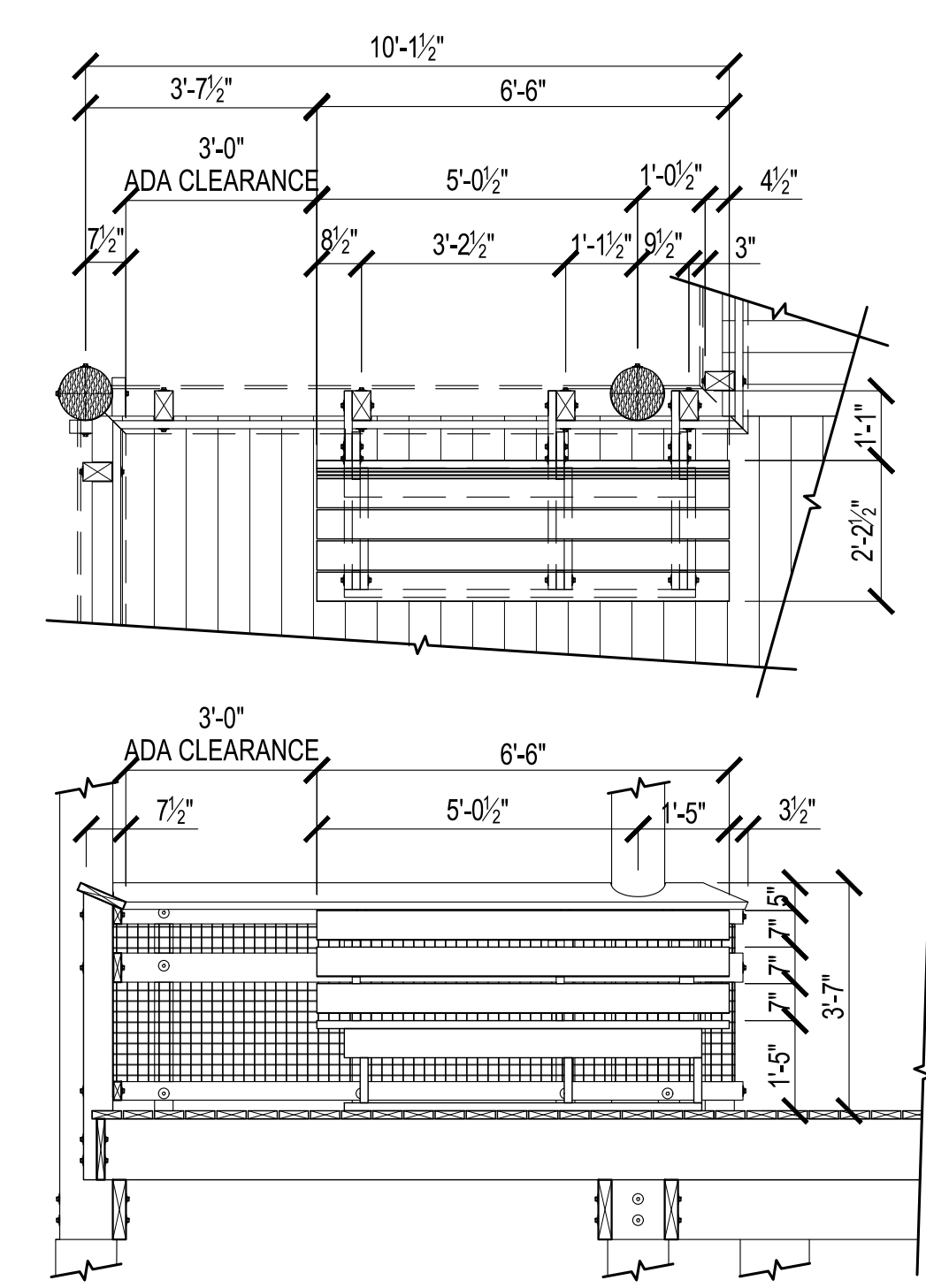
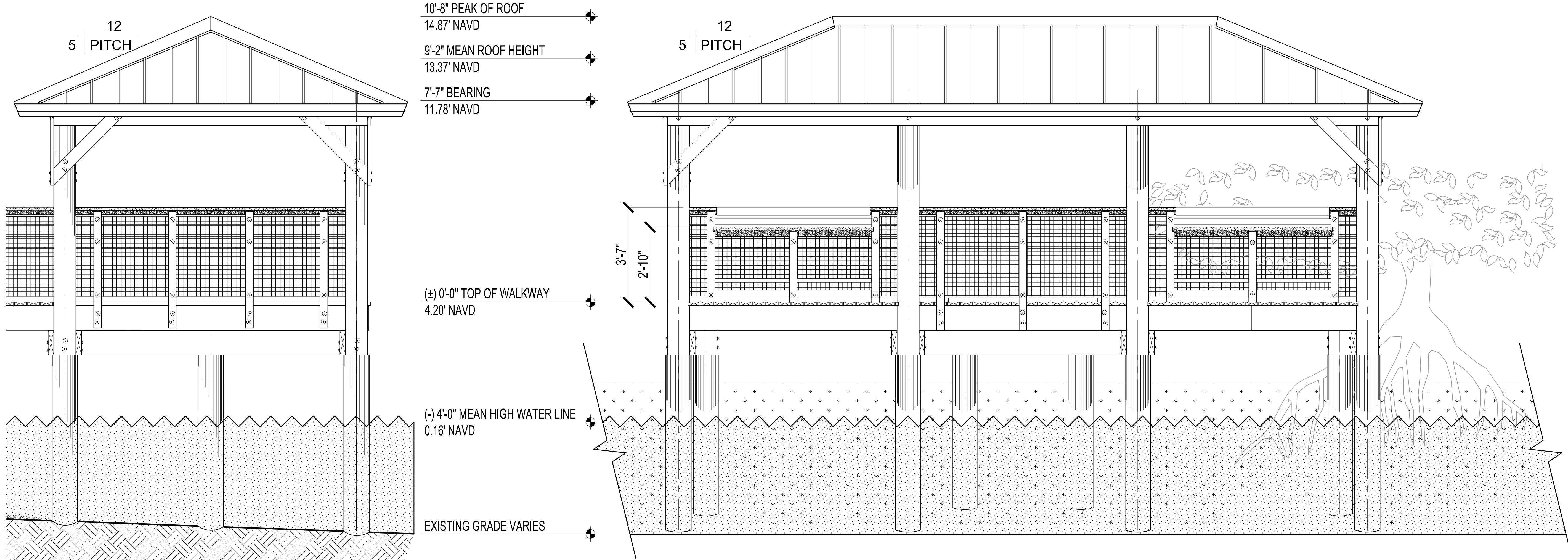
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BOARDWALK SECTIONS

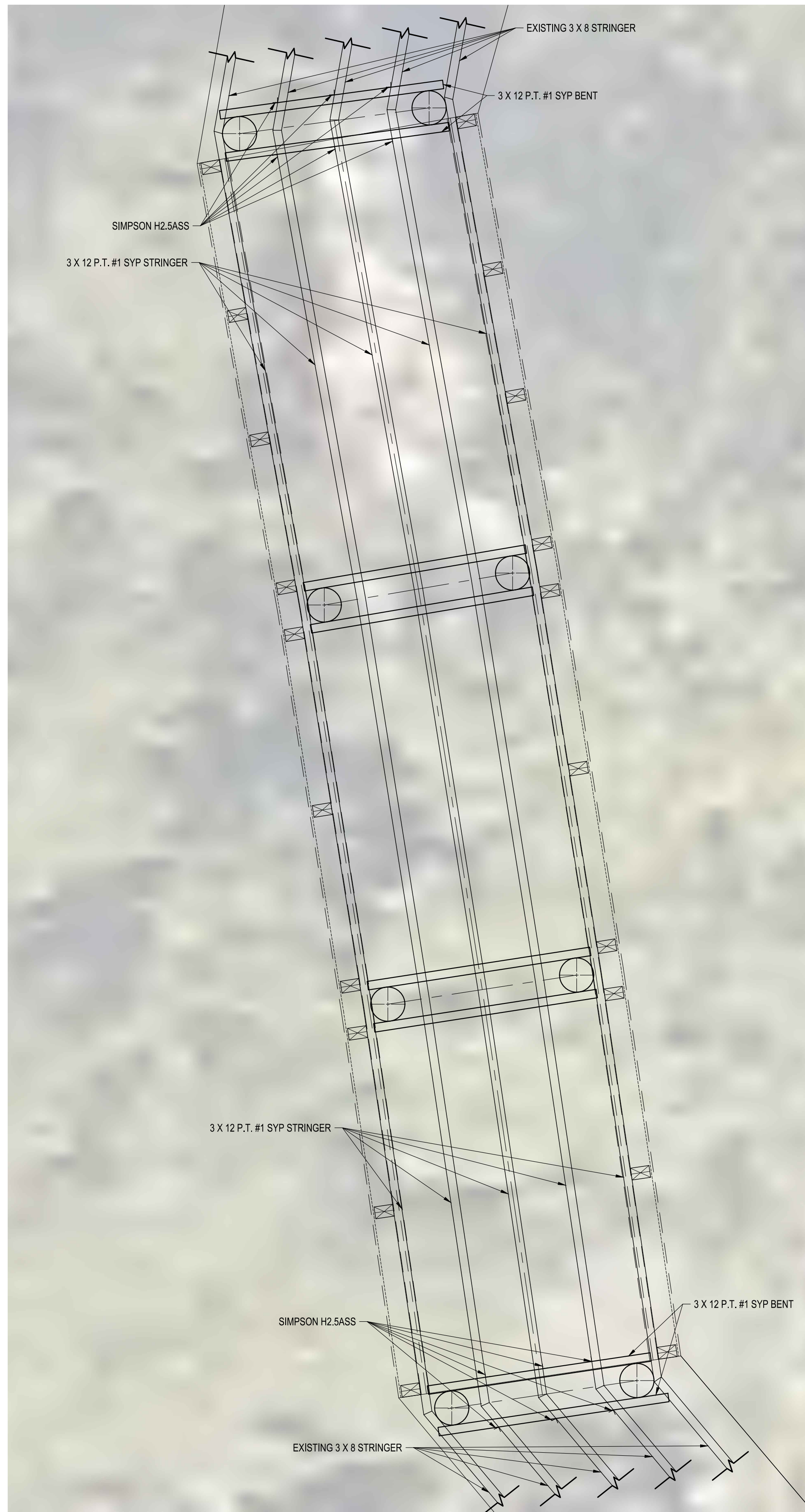
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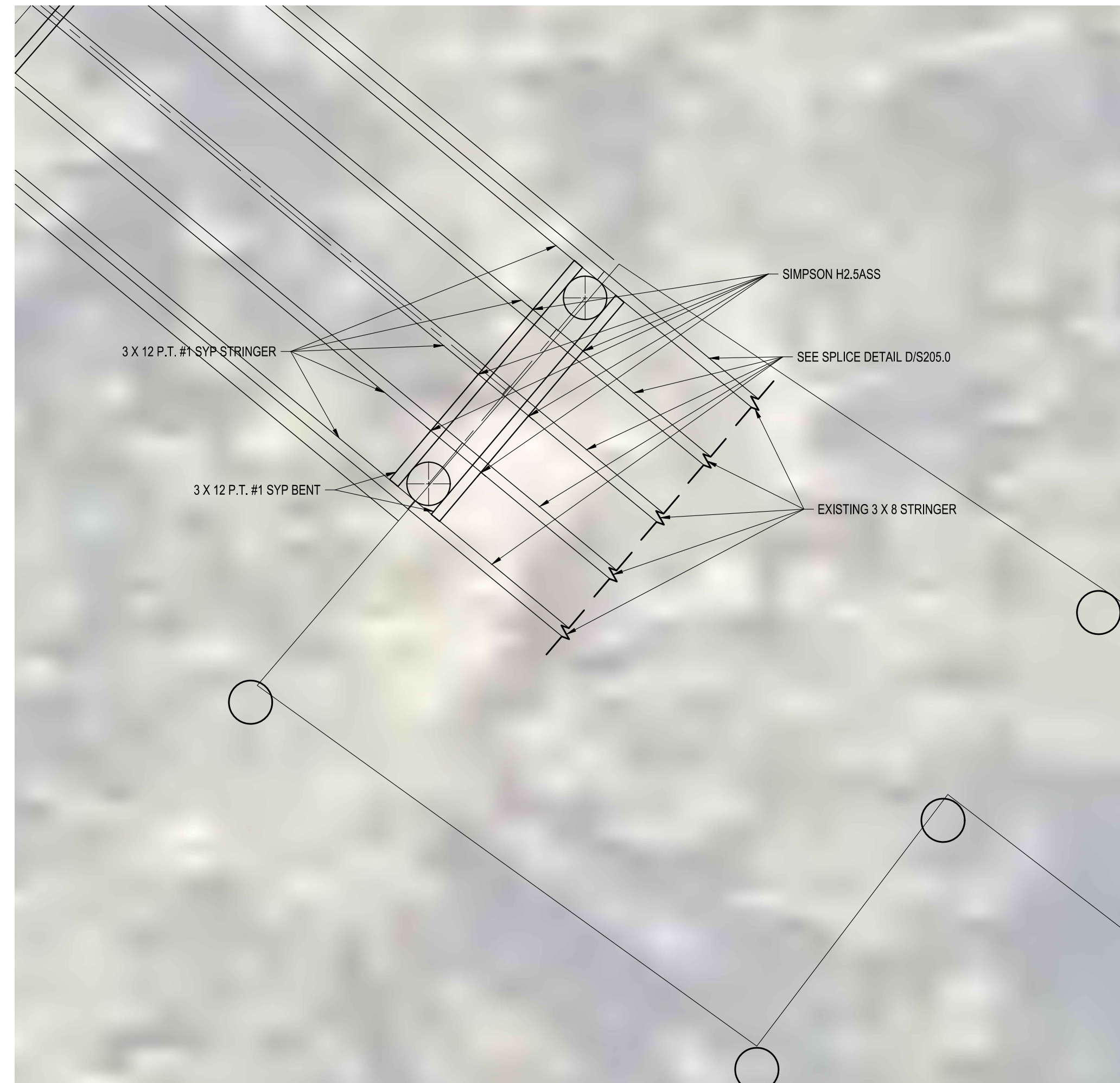
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Component & Cladding Wind Pressure: per Calcs

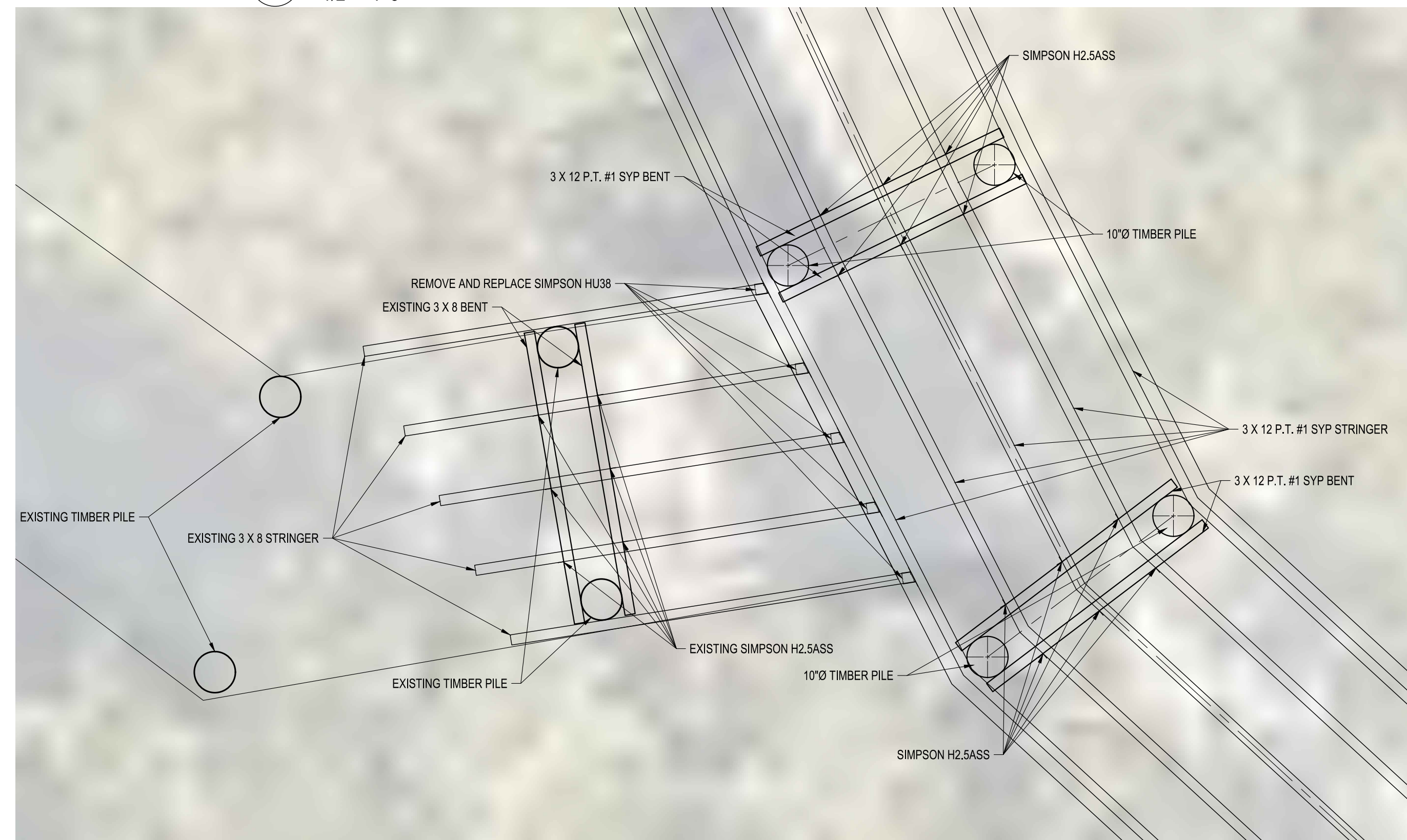
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Vertical Bearing Capacity: 8" PILE: 4 TONS, 10" PILE: 5 TONS
Lateral Bearing Pressure: 1 TON PER PILE



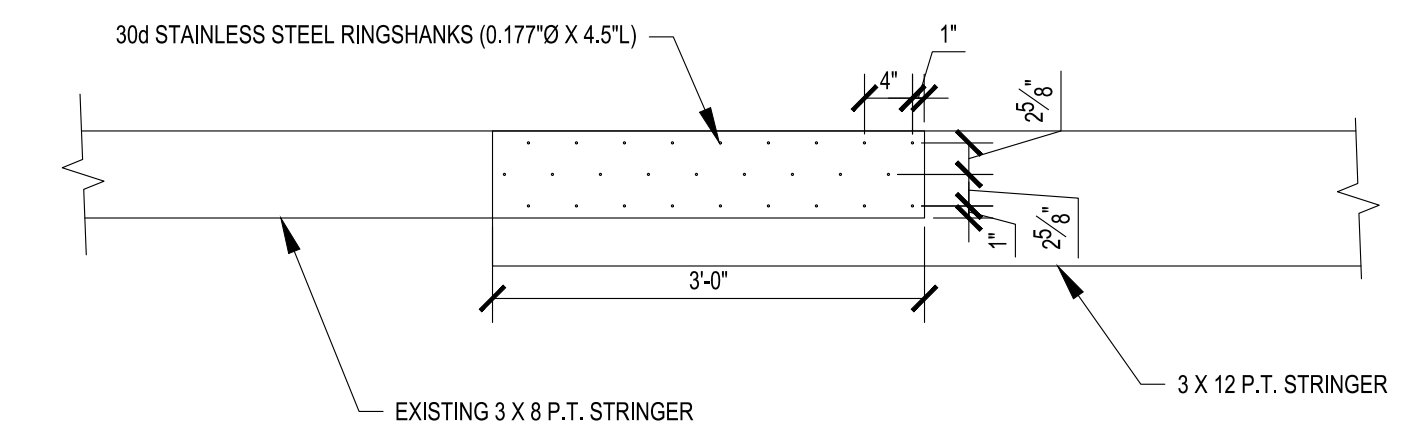
A SMITH TRAIL BRIDGE DETAIL
1/2" = 1'-0"



B SMITH TRAIL DETAIL
1/2" = 1'-0"



C DAVIS SIMPSON TRAIL AND GRESSMAN TRAIL SPLIT
1/2" = 1'-0"



D NEW TO OLD SPLICE DETAIL
3/4" = 1'-0"

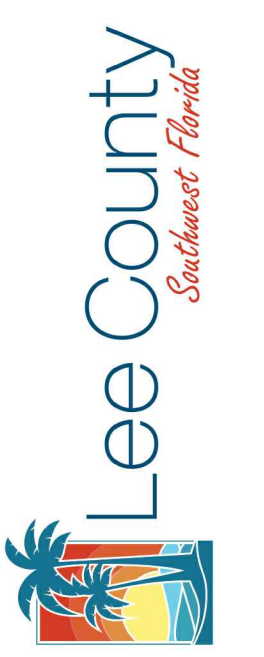
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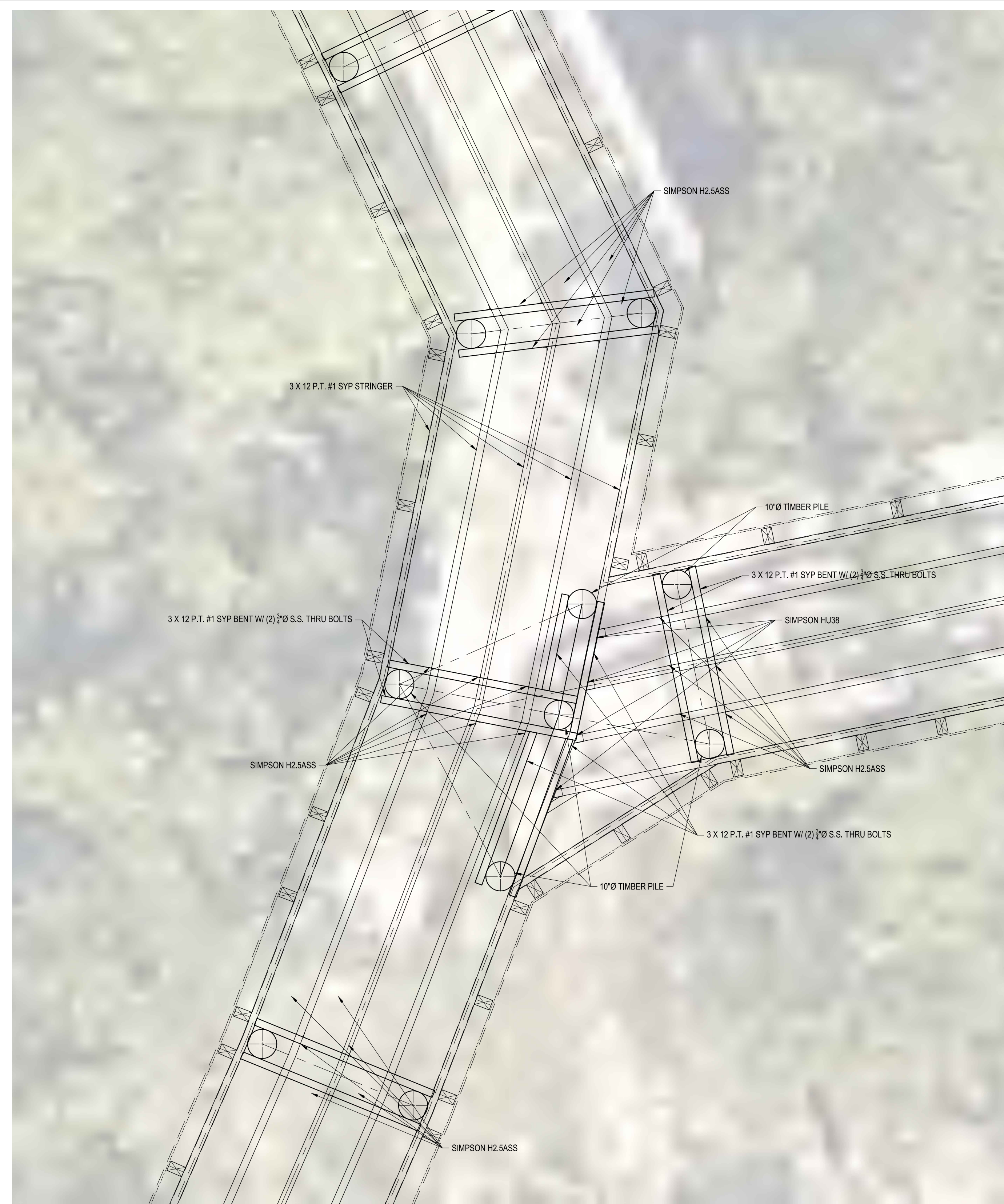
DATE: 03/04/2025
PROJECT NO. 23095.001
FILE NO. D# 1291129
SCALE: AS SHOWN

**BOARDWALK
CONNECTION
DETAILS**

SHEET NUMBER
S205.0



A DAVIS SIMPSON TRAIL, SMITH TRAIL, & FISHING PLATFORM SPLIT
1/2" = 1'-0"



B DAVIS SIMPSON TRAIL & KAYAK LAUNCH SPLIT
1/2" = 1'-0"

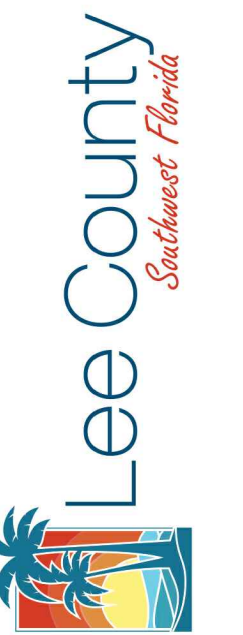
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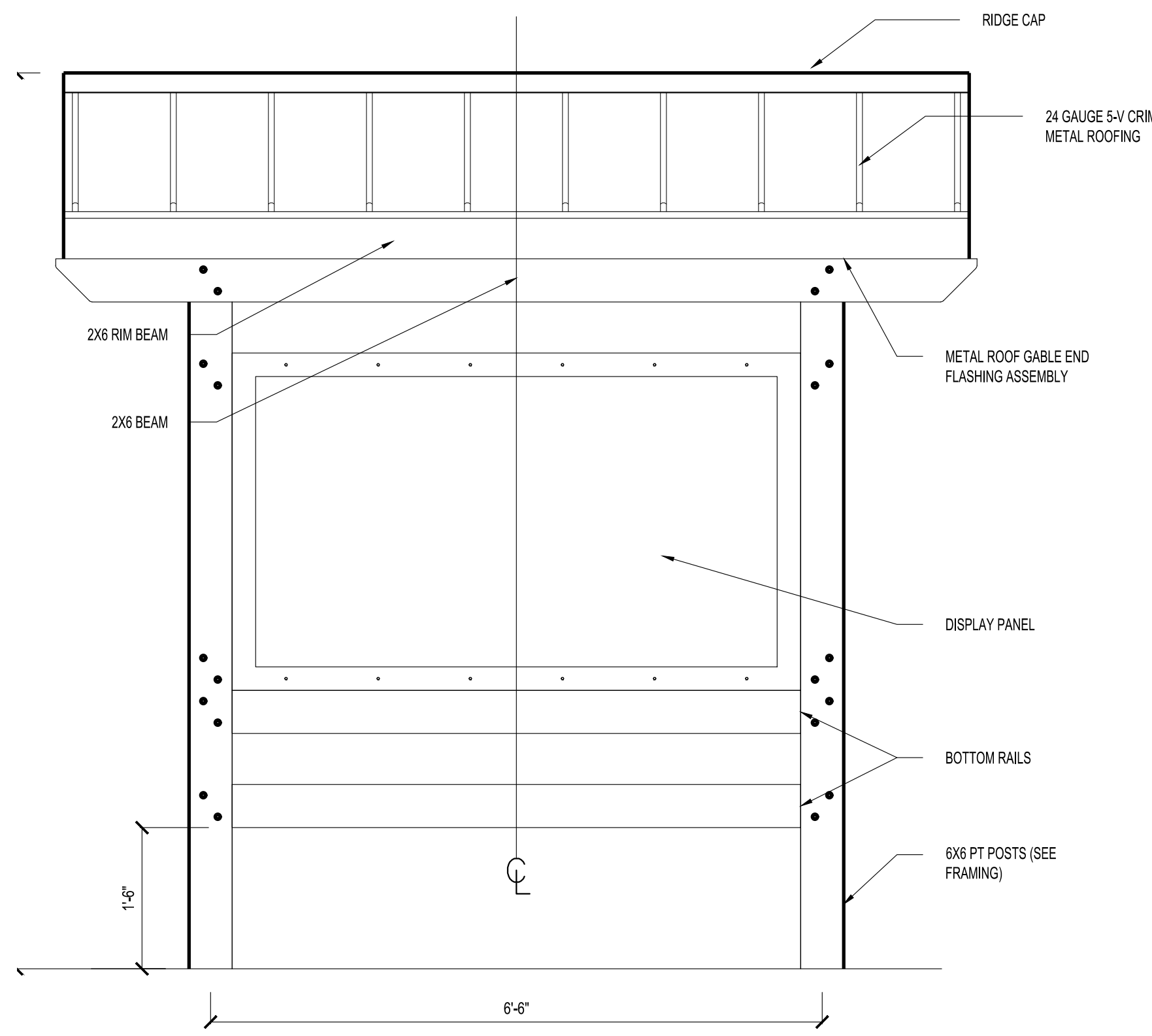
NO.	REVISIONS DESCRIPTION	DATE

DATE: 03/04/2025
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**BOARDWALK
 SPLIT DETAILS**

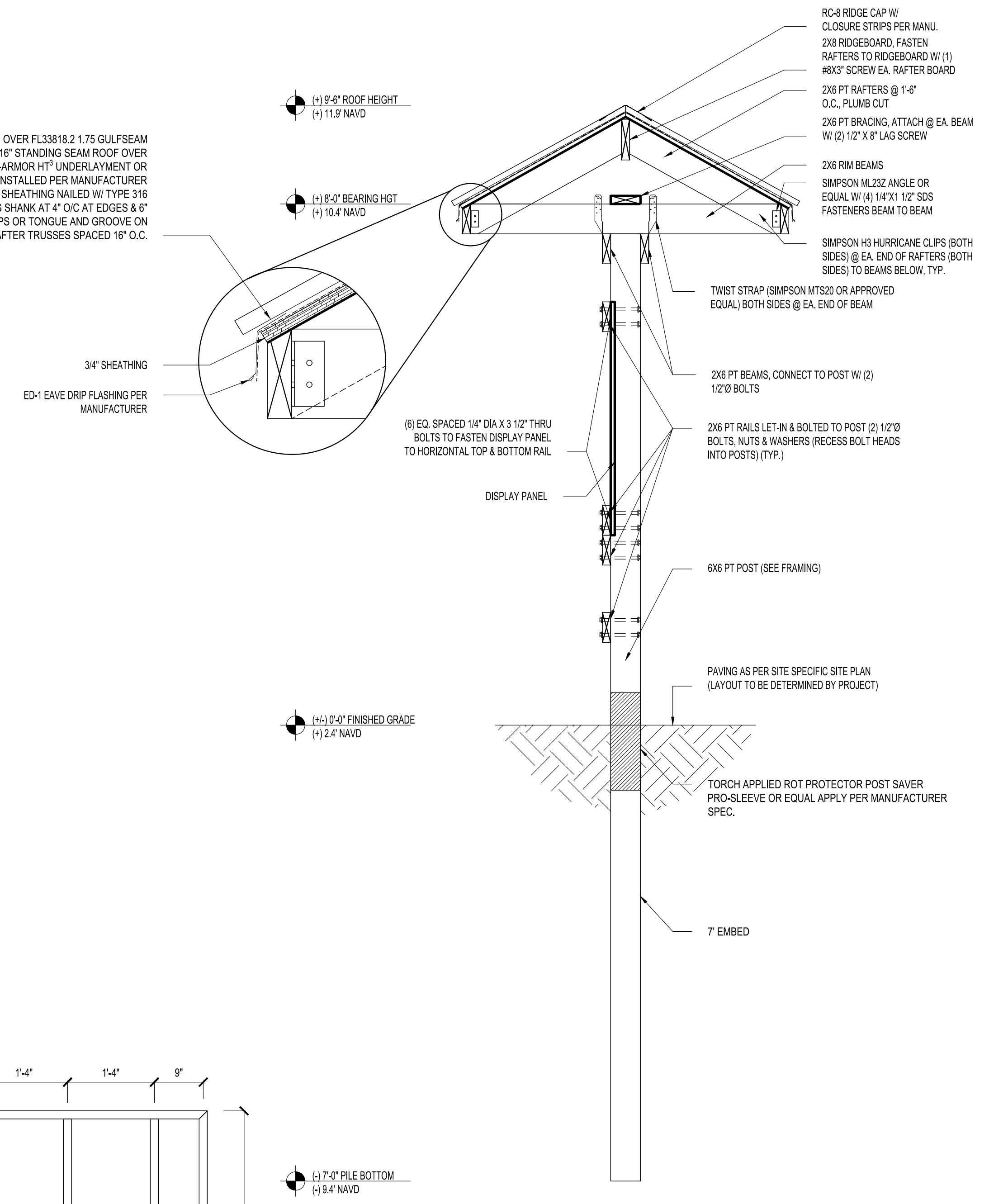
SHEET NUMBER
S206.0

KIOSK COMPONENTS AND CLADDING SCHEDULE				
DESCRIPTION	MANUFACTURE	MODEL OR SERIES	NOA/FBC APPROVAL	REMARKS
1.75" GULFSEAM 0.040" STANDING SEAM ALUMINUM ROOF	GULFSEAM	GULFSEAM	FPA#: FL33818.2 EXP: 10/08/2026 WIND: +/- 164.25 PSF	0.040 GA X16" ALUMINUM W/ KYNAR COATING
WEATHER-ARMOR HT ³ UNDERLAYMENT	APOC	WEATHER ARMOR	FPA#: 20-0714.01 EXP: 03/28/2028	MODIFIED BITUMINOUS SELF-ADHERING UNDERLAYMENT

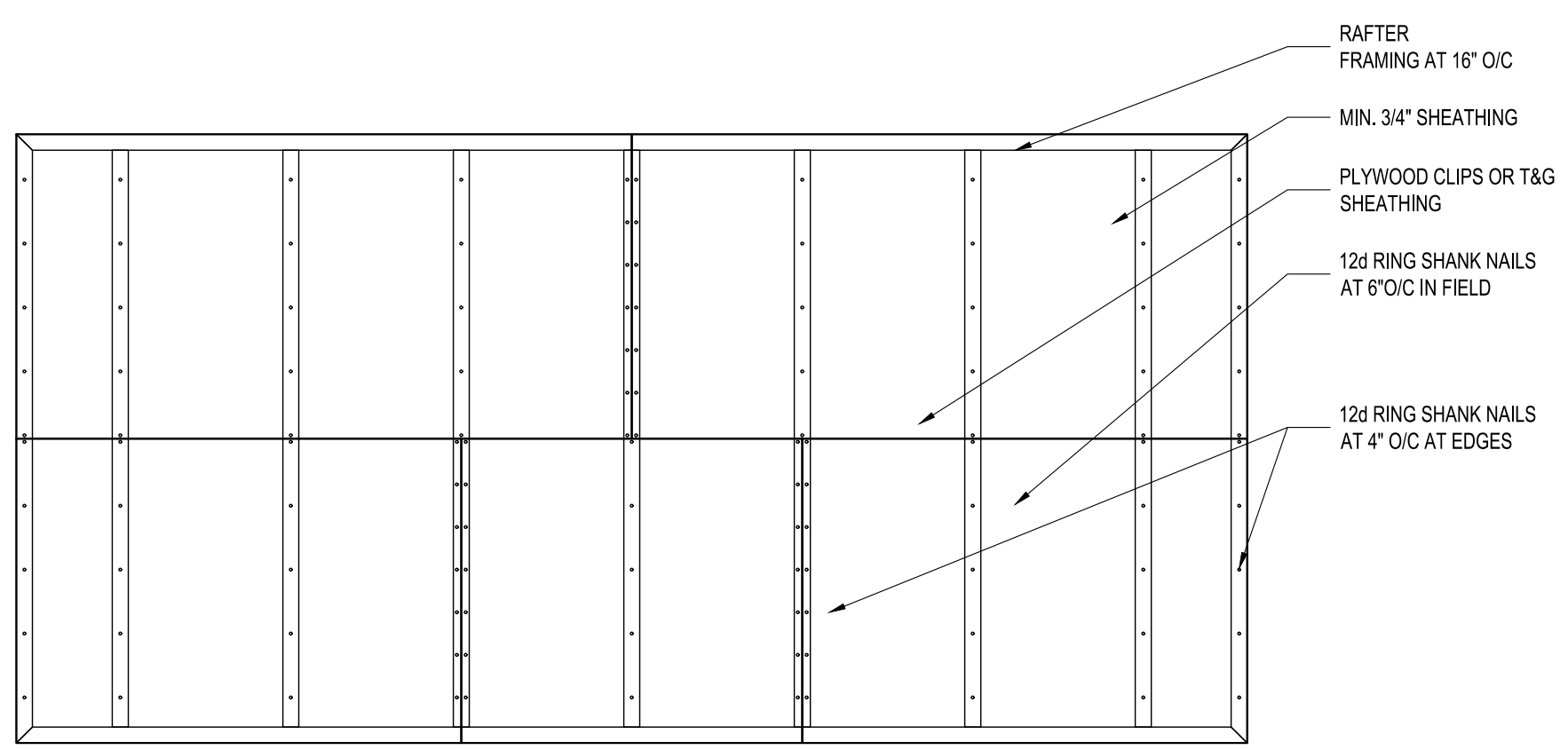


A KIOSK FRONT ELEVATION
3/4" = 1'-0"

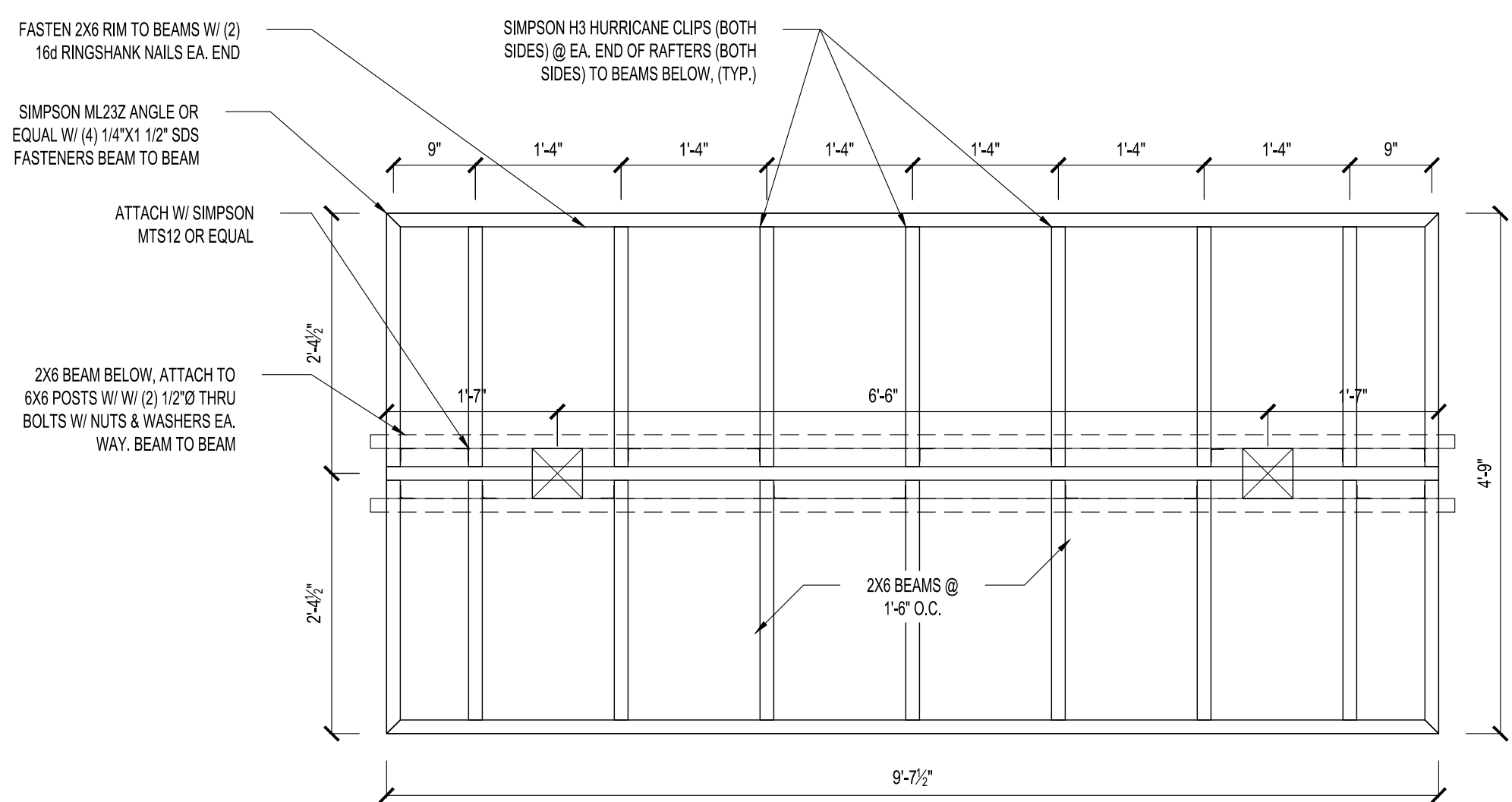
PROVIDE KYNAR COATING OVER FL33818.2 1.75 GULFSEAM 0.040 GA ALUMINUM X 16" STANDING SEAM ROOF OVER FL27076.15 WEATHER-ARMOR HT³ UNDERLAYMENT OR EQUIVALENT INSTALLED PER MANUFACTURER SPECIFICATIONS OVER 3/4" SHEATHING NAILED W/ TYPE 316 STAINLESS STEEL 12d RING SHANK AT 4" O/C AT EDGES & 6" O/C IN FIELD AND W/ H-CLIPS OR TONGUE AND GROOVE ON RAFTER TRUSSES SPACED 16" O.C.



C KIOSK SECTION DETAIL
3/4" = 1'-0"



D KIOSK ROOF SHEATHING ATTACHMENT
SCALE: NTS



B KIOSK FRAMING
3/4" = 1'-0"

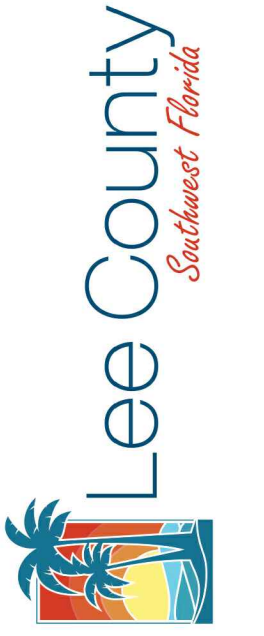
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KIOSK DETAILS

SHEET NUMBER

S207.0

PILING ID	TRAIL	RAILING TYPE	DESC	EST. GRADE ELEV.	GIRDER BOTTOM ELEV.	PILE TOP ELEV.	DECK ELEV.	BEAM TOP ELEV.	EST. GRADE TO TOP OF DECK	GRADE TO GIRDER	PILING ID	TRAIL	RAILING TYPE	DESC	EST. GRADE ELEV.	GIRDER BOTTOM ELEV.	PILE TOP ELEV.	DECK ELEV.	BEAM TOP ELEV.	EST. GRADE TO TOP OF DECK	GRADE TO GIRDER	PILING ID	TRAIL	RAILING TYPE	DESC	EST. GRADE ELEV.	GIRDER BOTTOM ELEV.	PILE TOP ELEV.	DECK ELEV.	BEAM TOP ELEV.	EST. GRADE TO TOP OF DECK	GRADE TO GIRDER	PILING ID	TRAIL	RAILING TYPE	DESC	EST. GRADE ELEV.	GIRDER BOTTOM ELEV.	PILE TOP ELEV.	DECK ELEV.	BEAM TOP ELEV.	EST. GRADE TO TOP OF DECK	GRADE TO GIRDER
1	G.T.	S.C.	Start/Ramp	1.50	-0.55	1.38	1.50	0.42	-0.10	2.14	44	G.T.	S.C.	Flat	1.66	1.16	3.08	3.20	2.12	1.54	0.51	87	D.S.T.	S.C.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09	130	D.S.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16
2	G.T.	S.C.	Start/Ramp	1.50	-0.55	1.38	1.50	0.42	-0.10	2.14	45	G.T.	S.C.	Flat	1.66	1.16	3.08	3.20	2.12	1.54	0.51	88	D.S.T.	S.C.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09	131	D.S.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.12	-0.08
3	G.T.	S.C.	Ramp	1.53	-0.04	1.88	2.00	0.92	0.47	1.58	46	G.T.	S.C.	Flat	1.50	1.16	3.08	3.20	2.12	1.70	0.35	89	D.S.T.	S.C.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09	132	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
4	G.T.	S.C.	Ramp	1.53	-0.04	1.88	2.00	0.92	0.47	1.58	47	G.T.	S.C.	Flat	1.66	1.16	3.08	3.20	2.12	1.54	0.51	90	D.S.T.	S.C.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09	133	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
5	G.T.	S.C.	Ramp	1.42	0.96	2.88	3.00	1.92	1.58	0.47	48	G.T.	S.C.	Flat	1.50	1.16	3.08	3.20	2.12	1.70	0.35	91	D.S.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	134	D.S.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01
6	G.T.	S.C.	Ramp	1.42	0.96	2.88	3.00	1.92	1.58	0.47	49	G.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	92	D.S.T.	S.C.	Flat	1.33	1.16	3.08	3.20	2.12	1.87	0.18	135	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
7	G.T.	S.C.	End/Ramp	1.50	1.16	3.08	3.20	2.12	1.70	0.35	50	G.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	93	D.S.T.	S.C.	Flat	1.58	1.16	3.08	3.20	2.12	1.62	0.43	136	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
8	G.T.	S.C.	End/Ramp	1.25	1.16	3.08	3.20	2.12	1.95	0.09	51	G.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	94	D.S.T.	S.C.	Flat	1.58	1.16	3.08	3.20	2.12	1.62	0.43	137	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.08	-0.01
9	G.T.	S.C.	Flat	1.50	1.16	3.08	3.20	2.12	1.70	0.35	52	G.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	95	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	138	D.S.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16
10	G.T.	S.C.	Flat	1.33	1.16	3.08	3.20	2.12	1.87	0.18	53	G.T.	S.C.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09	96	D.S.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	139	D.S.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16
11	G.T.	S.C.	Flat	1.50	1.16	3.08	3.20	2.12	1.70	0.35	54	G.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16	97	D.S.T.	S.C.	Flat	1.66	1.16	3.08	3.20	2.12	1.54	0.51	140	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
12	G.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	55	G.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16	98	D.S.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	141	D.S.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16
13	G.T.	S.C.	Flat	1.58	1.16	3.08	3.20	2.12	1.62	0.43	56	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	99	D.S.T.	S.C.	Flat	1.58	1.16	3.08	3.20	2.12	1.62	0.43	142	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
14	G.T.	S.C.	Flat	1.66	1.16	3.08	3.20	2.12	1.54	0.51	57	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	100	D.S.T.	S.C.	Flat	1.66	1.16	3.08	3.20	2.12	1.54	0.51	143	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	3.17	-1.08
15	G.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	58	G.T.	S.C.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09	101	D.S.T.	S.C.	Flat	1.33	1.16	3.08	3.20	2.12	1.87	0.18	144	D.S.T.	B.P.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09
16	G.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	59	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	102	D.S.T.	S.C.	Flat	1.33	1.16	3.08	3.20	2.12	1.87	0.18	145	D.S.T.	B.P.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09
17	G.T.	S.C.	Flat	1.58	1.16	3.08	3.20	2.12	1.62	0.43	60	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	103	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	146	D.S.T.	B.P.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27
18	G.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	61	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	104	D.S.T.	B.P.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	147	D.S.T.	B.P.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
19	G.T.	S.C.	Flat	1.66	1.16	3.08	3.20	2.12	1.54	0.51	62	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	105	D.S.T.	B.P.	Flat	1.33	1.16	3.08	3.20	2.12	1.87	0.18	148	D.S.T.	S.C.	Flat	0.75	1.16	3.08	3.20	2.12	2.45	-0.41
20	G.T.	S.C.	Flat	1.33	1.16	3.08	3.20	2.12	1.87	0.18	63	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	106	D.S.T.	B.P.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27	149	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
21	G.T.	S.C.	Flat	1.50	1.16	3.08	3.20	2.12	1.70	0.35	64	G.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16	107	D.S.T.	B.P.	Flat	1.08	1.16	3.08	3.20	2.12	2.03	0.01	150	D.S.T.	S.C.	Flat	0.90	1.16	3.08	3.20	2.12	2.30	-0.26
22	G.T.	S.C.	Flat	1.50	1.16	3.08	3.20	2.12	1.70	0.35	65	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	108	D.S.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	151	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
23	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	66	G.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	109	D.S.T.	S.C.	Flat	1.25	1.16	3.08	3.20	2.12	1.95	0.09	152	D.S.T.	S.C.	Flat	0.75	1.16	3.08	3.20	2.12	2.45	-0.41
24	G.T.	S.C.	Flat	1.33	1.16	3.08	3.20	2.12	1.87	0.18	67	G.T.	S.C.	Flat	1.33	1.16	3.08	3.20	2.12	1.87	0.18	110	D.S.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16	153	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08
25	G.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16	68	G.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	111	D.S.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	154	D.S.T.	S.C.	Flat	0.75	1.16	3.08	3.20	2.12	2.45	-0.41
26	G.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	69	G.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	112	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	155	D.S.T.	S.C.	Flat	1.00	1.16	3.08	3.20	2.12	2.20	-0.16
27	G.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	70	G.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	113	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	156	D.S.T.	S.C.	Flat	0.75	1.16	3.08	3.20	2.12	2.45	-0.41
28	G.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	71	G.T.	S.C.	Flat	0.75	1.16	3.08	3.20	2.12	2.45	-0.41	114	D.S.T.	S.C.	Flat	1.17	1.16	3.08	3.20	2.12	2.03	0.01	157	D.S.T.	S.C.	Flat	3.21	1.16	3.08	3.20	2.12	0.05	10
29	G.T.	S.C.	Flat	0.08	1.16	3.08	3.20	2.12	3.12	-1.08	72	G.T.	S.C.	Flat	0.58	1.16	3.08	3.20	2.12	2.62	-0.58	115	D.S.T.	S.C.	Flat	1.08	1.16	3.08	3.20	2.12	2.12	-0.08	158	D.S.T.	S.C.	Flat	3.33	1.16	3.08	3.20	2.12	-0.13	2.18
30	G.T.	S.C.	Flat	1.42	1.16	3.08	3.20	2.12	1.78	0.27																																	