

NO-RISE REPORT

PREPARED FOR:

RICKY MERSHON

PARCEL NUMBER 00-00-00-00640-000
COLUMBIA COUNTY, FLORIDA

MARCH 29TH, 2023

PREPARED BY:

TRAVIS COVINGTON, P.E.
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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TRAVIS COVINGTON, P.E. ON THE DATE ADJACENT TO THE SEAL.

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PROJECT DESCRIPTION

Ricky Mershon would like to permit improvements to his property, parcel 00-00-00-00640-000, Lots 47 & 48, Three Rivers Estates, Section 26, Township 6 South, Range 15 East, Columbia County, Florida. The permit will be for the construction of a new 2292 S.F. residential home. A Location Map and Site Plan are attached.

The river station (RS) was determined by approximating length along the river centerline from a combination of GIS property lines and aerial imagery. The site falls on RS 8.54, which falls between existing cross-sections 10.06 and 8.43. Per the SRWMD Flood Report, the base flood elevation (BFE) is 33.5 feet.

ANALYSIS

A No-Rise Certification with supporting documentation is attached. A new cross-section was interpolated from existing cross-sections and is shown on the Site Plan. The following steps were executed in performing the no-rise calculations:

1. Run the model with Suwannee River Water Management District (SRWMD) existing cross-sections. Verify that the model matches the original flood study results.

The output from the run using the existing cross-sections matched that of the original flood study. The HEC-RAS model was obtained from SRWMD.

2. Interpolate between existing cross-sections and add a new cross-section at the site location.

A new cross-section, RS 8.54, was interpolated from RS 10.06 and RS 8.43.

3. Verify the run by confirming that the additional cross-section matches the original output.

The interpolated cross-section was calculated using HEC-RAS 6.3.1 from the model obtained from SRWMD. The 100-year flood levels are consistent with the current flood study.

4. Add obstructions along the new cross-section to model the new development.

One new obstruction, the new house, was added to cross-section RS 8.54 to model the structure.

5. Verify the run including the obstacles does not obstruct flows or cause more than a 0.01 foot rise in the 100-year flood elevations of the Sante Fe River.

Calculations show no obstruction of flow, and the water surface elevations show no increase greater than 0.01 feet, therefore a no-rise condition is achieved.

Tables 1 & 2 show the profile data for pre-development and post-development conditions, respectively. Tables 3 & 4 show the blocked obstructions for pre-development and post-development conditions, respectively. Tables 5 and 6 list the stations and elevations for the cross-section at RS 8.54 for pre-development and post-development conditions, respectively.

HEC-RAS Plan: FW River: Santa Fe Reach: Main													Reload Data
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl	
Main	11.3	100 Year	16359.00	6.34	34.24		34.27	0.000035	1.70	32800.55	2491.92	0.06	
Main	11.3	FW	16359.00	6.34	34.99		35.03	0.000035	1.73	28281.69	1615.00	0.06	
Main	10.06	100 Year	16359.00	1.15	33.90		33.97	0.000068	2.39	21189.38	2551.41	0.08	
Main	10.06	FW	16359.00	1.15	34.66		34.73	0.000065	2.38	17719.01	1217.00	0.08	
Main	8.54*	100 Year	16359.00	-1.47	33.46		33.52	0.000054	2.24	33976.79	5514.72	0.07	
Main	8.54*	FW	16359.00	-1.47	34.28		34.33	0.000045	2.10	38544.67	5613.06	0.07	
Main	8.43	100 Year	16359.00	-1.66	33.43		33.49	0.000052	2.21	34648.19	5661.33	0.07	
Main	8.43	FW	16359.00	-1.66	34.24		34.30	0.000053	2.27	24866.34	2099.00	0.07	
Main	7.64	100 Year	16359.00	2.09	33.21		33.26	0.000062	2.22	35468.11	5128.03	0.08	
Main	7.64	FW	16359.00	2.09	34.00		34.06	0.000070	2.41	23748.89	1694.00	0.08	

TABLE 1. PRE-DEVELOPMENT PROFILE DATA.

HEC-RAS Plan: FW River: Santa Fe Reach: Main													Reload Data
Reach	River Sta	Profile	Q Total (cfs)	Min Ch El (ft)	W.S. Elev (ft)	Crit W.S. (ft)	E.G. Elev (ft)	E.G. Slope (ft/ft)	Vel Chnl (ft/s)	Flow Area (sq ft)	Top Width (ft)	Froude # Chl	
Main	11.3	100 Year	16359.00	6.34	34.24		34.27	0.000035	1.70	32813.49	2492.46	0.06	
Main	11.3	FW	16359.00	6.34	35.00		35.03	0.000035	1.73	28288.84	1615.00	0.06	
Main	10.06	100 Year	16359.00	1.15	33.90		33.97	0.000068	2.39	21203.38	2552.33	0.08	
Main	10.06	FW	16359.00	1.15	34.67		34.74	0.000065	2.38	17724.66	1217.00	0.08	
Main	8.54*	100 Year	16359.00	-1.47	33.46		33.52	0.000055	2.26	33298.39	5459.11	0.07	
Main	8.54*	FW	16359.00	-1.47	34.28		34.33	0.000046	2.12	37818.08	5557.40	0.07	
Main	8.43	100 Year	16359.00	-1.66	33.43		33.49	0.000052	2.21	34648.19	5661.33	0.07	
Main	8.43	FW	16359.00	-1.66	34.24		34.30	0.000053	2.27	24866.34	2099.00	0.07	
Main	7.64	100 Year	16359.00	2.09	33.21		33.26	0.000062	2.22	35468.11	5128.03	0.08	
Main	7.64	FW	16359.00	2.09	34.00		34.06	0.000070	2.41	23748.89	1694.00	0.08	

TABLE 2. POST-DEVELOPMENT PROFILE DATA.

Cross Section Blocked Obstruction Table

River:

Santa Fe

☒ Show All River Stations

Reach:

Main

Selected Area Edit Options

Add Constant ...

Multiply Factor ...

Set Values ...

Replace Values ...

Cross Section with Blocked Obstructions

	RS	Left	Right	Elev
129	11.3			
130	10.06			
131	8.54*			
132	8.43			
133	7.64			

TABLE 3. PRE-DEVELOPMENT BLOCKED OBSTRUCTIONS.

Cross Section Blocked Obstruction Table

River:

Santa Fe

☒ Show All River Stations



Reach:

Main

Selected Area Edit Options

Add Constant ...

Multiply Factor ...

Set Values ...

Replace Values ...

Cross Section with Blocked Obstructions

	RS	Left	Right	Elev
129	11.3			
130	10.06			
131	8.54*	13079.73	13135.23	40
132	8.43			
133	7.64			

TABLE 4. POST-DEVELOPMENT BLOCKED OBSTRUCTIONS.

Cross Section Coordinates			
	Station	Elevation	n Val
1	10000	37.34	0.28
2	10173.24	35.54	
3	10412.52	35.19	
4	10635.53	35.03	
5	10649.41	34.86	
6	10812.6	32.87	
7	10966.7	32.87	
8	10967.44	32.65	
9	10970.53	31.74	
10	10996.37	31.73	
11	11001.16	32.2	
12	11141.86	32.88	
13	11261.41	31.28	
14	11271.07	31.15	
15	11367.74	30.24	
16	11464.52	30	
17	11472.07	29.95	
18	11553.42	29.56	
19	11624.87	28.55	
20	11633.82	28.46	
21	11704.65	29.52	
22	11737.11	30.49	
23	11741.02	30.61	
24	11756.33	31.1	
25	11775.48	30.18	
26	11783.13	29.91	
27	11809.93	29.84	
28	11841.34	29.67	
29	11932.45	29.26	
30	12007.03	29.29	
31	12111.43	29.29	
32	12205.23	27.71	
33	12212.81	27.61	
34	12257.87	26.99	
35	12260.74	25.77	
36	12267.44	25.96	
37	12273.18	25.87	
38	12276.05	26.15	
39	12311.47	24.95	
40	12366.03	24.03	
41	12407.18	22.55	
42	12428.24	20.41	
43	12449.3	16.97	
44	12468.44	13.99	
45	12474.72	13	
46	12480.88	12.02	
47	12498.11	10.73	
48	12524.91	11.98	
49	12533.52	15.34	
50	12562.24	15.31	

Cross Section Coordinates			
	Station	Elevation	n Val
51	12586.17	15.38	
52	12593.82	15.38	
53	12597.65	14.81	0.045
54	12603.61	11.78	
55	12613.55	4.61	
56	12616.28	4.34	
57	12628.33	2.86	
58	12683.12	-1.47	
59	12713.72	2.2	
60	12722.29	3.6	
61	12748.15	8.21	
62	12768.81	11.63	
63	12781.05	17.79	0.28
64	12825.84	17.22	
65	12886.21	17.58	
66	12909.61	17.71	
67	12962.63	17.92	
68	13057.58	17.84	
69	13152.03	24.44	
70	13166.71	26.25	
71	13179.29	27.79	
72	13195.84	26.84	
73	13203.63	25.99	
74	13206.55	24.96	
75	13208.5	26.08	
76	13227.97	27.18	
77	13267.95	27.41	
78	13300.09	27.53	
79	13409.08	28.3	
80	13415.79	28.22	
81	13537.91	26.58	
82	13568.76	26.18	
83	13749.86	26.52	
84	13880.18	26.75	
85	13953.36	26.86	
86	14157.84	27.16	
87	14352.57	27.93	
88	14354.22	27.94	
89	14689.47	29.65	
90	14794.52	30.16	
91	14905.62	30.78	
92	15022.7	30.49	
93	15205.52	29.97	
94	15226.78	30.03	
95	15313.55	30.17	
96	15342.48	30.35	
97	15396.36	30.51	
98	15466.21	30.72	
99	15588.17	30.98	
100	15855.93	30.42	

Cross Section Coordinates			
	Station	Elevation	n Val
101	15980.42	30.15	
102	16053.59	29.96	
103	16169.46	30.82	
104	16266.45	33.13	
105	16425.54	37.34	
106			
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TABLE 5. PRE-DEVELOPMENT RS 8.54 CROSS-SECTION DATA.

Cross Section Coordinates			
	Station	Elevation	n Val ▲
1	10000	37.34	0.28
2	10173.24	35.54	
3	10412.52	35.19	
4	10635.53	35.03	
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7	10966.7	32.87	
8	10967.44	32.65	
9	10970.53	31.74	
10	10996.37	31.73	
11	11001.16	32.2	
12	11141.86	32.88	
13	11261.41	31.28	
14	11271.07	31.15	
15	11367.74	30.24	
16	11464.52	30	
17	11472.07	29.95	
18	11553.42	29.56	
19	11624.87	28.55	
20	11633.82	28.46	
21	11704.65	29.52	
22	11737.11	30.49	
23	11741.02	30.61	
24	11756.33	31.1	
25	11775.48	30.18	
26	11783.13	29.91	
27	11809.93	29.84	
28	11841.34	29.67	
29	11932.45	29.26	
30	12007.03	29.29	
31	12111.43	29.29	
32	12205.23	27.71	
33	12212.81	27.61	
34	12257.87	26.99	
35	12260.74	25.77	
36	12267.44	25.96	
37	12273.18	25.87	
38	12276.05	26.15	
39	12311.47	24.95	
40	12366.03	24.03	
41	12407.18	22.55	
42	12428.24	20.41	
43	12449.3	16.97	
44	12468.44	13.99	
45	12474.72	13	
46	12480.88	12.02	
47	12498.11	10.73	
48	12524.91	11.98	
49	12533.52	15.34	
50	12562.24	15.31	

Cross Section Coordinates			
	Station	Elevation	n Val ▲
51	12586.17	15.38	
52	12593.82	15.38	
53	12597.65	14.81	0.045
54	12603.61	11.78	
55	12613.55	4.61	
56	12616.28	4.34	
57	12628.33	2.86	
58	12683.12	-1.47	
59	12713.72	2.2	
60	12722.29	3.6	
61	12748.15	8.21	
62	12768.81	11.63	
63	12781.05	17.79	0.28
64	12825.84	17.22	
65	12886.21	17.58	
66	12909.61	17.71	
67	12962.63	17.92	
68	13057.58	17.84	
69	13152.03	24.44	
70	13166.71	26.25	
71	13179.29	27.79	
72	13195.84	26.84	
73	13203.63	25.99	
74	13206.55	24.96	
75	13208.5	26.08	
76	13227.97	27.18	
77	13267.95	27.41	
78	13300.09	27.53	
79	13409.08	28.3	
80	13415.79	28.22	
81	13537.91	26.58	
82	13568.76	26.18	
83	13749.86	26.52	
84	13880.18	26.75	
85	13953.36	26.86	
86	14157.84	27.16	
87	14352.57	27.93	
88	14354.22	27.94	
89	14689.47	29.65	
90	14794.52	30.16	
91	14905.62	30.78	
92	15022.7	30.49	
93	15205.52	29.97	
94	15226.78	30.03	
95	15313.55	30.17	
96	15342.48	30.35	
97	15396.36	30.51	
98	15466.21	30.72	
99	15588.17	30.98	
100	15855.93	30.42	

Cross Section Coordinates			
	Station	Elevation	n Val ▲
101	15980.42	30.15	
102	16053.59	29.96	
103	16169.46	30.82	
104	16266.45	33.13	
105	16425.54	37.34	
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TABLE 6. POST-DEVELOPMENT RS 8.54 CROSS-SECTION DATA.

CONCLUSION

Calculations show no obstruction of flow and the water surface elevations for the developed cross section at RS 8.54 do not increase by more than 0.01 ft; therefore, a no-rise is achieved per SRWMD rule 40B-4.3030(9) & FEMA requirements.

EXHIBIT A

NO-RISE CERTIFICATION

COVINGTON ENGINEERING SERVICES

272 NW COUNTRY LAKE DR
LAKE CITY, FL 32055
813.770.9470
TRAVIS@COVINGTONENG.COM

MARCH 29TH, 2023

NO-RISE CERTIFICATION

OWNER:	RICKY MERSHON
PARCEL NUMBER:	00-00-00-00640-000
PROPERTY ADDRESS:	1276 SW SANTA FE DRIVE, FT WHITE, FL
PROPERTY DESCRIPTION:	LOTS 47 & 48 OF THREE RIVERS ESTATES UNIT 5 AS PER THE PLAT THEROF RECORDED IN PLAT BOOK 4, PAGE 38 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA
STRUCTURE IN FLOODWAY:	2922 SF RESIDENTIAL HOUSE
RIVER MILE:	RS 8.54
ELEVATION OF 100-YEAR FLOOD:	33.5 FEET (PER SRWMD FLOOD REPORT)
COMMUNITY PANEL(S):	12023C0466C (EFFECTIVE DATE 2/4/2009)

I HEREBY CERTIFY THAT THE CONSTRUCTION OF THE PROPOSED STRUCTURES WILL NOT OBSTRUCT FLOW OR INCREASE THE 100-YEAR FLOOD ELEVATION OF THE SANTE FE RIVER.

TRAVIS COVINGTON, P.E.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TRAVIS COVINGTON, P.E. ON THE DATE ADJACENT TO THE SEAL.

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EXHIBIT B

SURVEY

BOUNDARY AND PARTIAL TOPOGRAPHIC SURVEY

BOUNDARY SURVEY
IN SECTION 26, TOWNSHIP 6 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLA.

DESCRIPTION:

PARCEL 1: LOT 45, THREE RIVERS ESTATES, UNIT 5 A PART OF SECTIONS 25, 26, 35, AND 36, TOWNSHIP 6 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA, SAID LOT 45 BEING MORE PARTICULARLY DESCRIBED AS: COMMENCE AT THE SOUTHEAST CORNER SECTION 26, TOWNSHIP 6 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA AND RUN N 75°17'48" W LAMBERT GRID BEARING 1652.10 FEET FOR A POINT OF BEGINNING; THENCE N 17°55' W 83.1 FEET; THENCE S 46°35' W 35.3 FEET MORE OR LESS TO WATER'S EDGE SANTA FE RIVER; THENCE SOUTHEASTERLY ALONG WATER'S EDGE SAID RIVER 75 FEET MORE OR LESS TO THE POINT; THENCE N 46°35' E 336 FEET MORE OR LESS TO THE POINT OF BEGINNING; SAID LOT BEING A PART OF THE SOUTHEAST ¼ SAID SECTION 26.

BEING ALSO DESCRIBED AS: LOT 45 OF THREE RIVERS ESTATES UNIT 5 AS PER PLAT THEREOF RECORDED IN PLAT BOOK 4, PAGE 38 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

PARCEL 2: LOT 46, SECTION 4, MORE PARTICULARLY KNOWN AS LOT 46, UNIT 5 OF THREE RIVERS ESTATES, UNIT 5 BETTER DESCRIBED AS FOLLOWS: COMMENCE AT THE SW CORNER SECTION 25, RUN N 17°13'48" EAST 397.89 FEET FOR A POINT OF BEGINNING; THENCE S 84°33' WEST 947.23 FEET; THENCE S 46°35' WEST 490.41 FEET; THENCE N 47°23' WEST 311.75 FEET; THENCE N 17°55' WEST 659.90 FEET; THENCE N 26°02' WEST 176.16 FEET; THENCE S 46°35' WEST 561.79 FEET MORE OR LESS TO WATER'S EDGE SANTA FE RIVER; THENCE GENERALLY EASTERLY ALONG WATER'S EDGE NORTH BANK SANTA FE RIVER TO WEST LINE LOT AT WATER'S EDGE SECTION 2, 3 RIVERS ESTATES; THENCE N 3°33' WEST 620.89 FEET; THENCE S 78°49' WEST 438.89 FEET; THENCE S 50°51' WEST 681.83 FEET TO POINT OF BEGINNING; BEING A PART OF SECTIONS 25, 26, 35, 36, TOWNSHIP 6 SOUTH RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA.

BEING ALSO DESCRIBED AS:

LOT 46 OF THREE RIVES ESTATES UNIT 5, AS PER PLAT THEREOF RECORDED IN PLAT BOOK 4 PAGE 38 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

AND ALSO:

LOTS 47 AND 48, UNIT 5 OF 3 RIVERS ESTATES, INC., SAID UNIT 5 BETTER DESCRIBED AS FOLLOWS: COMMENCE AT THE SW CORNER, SECTION 25, AND RUN NORTH 17°13'48" EAST 397.89 FEET FOR A POINT OF BEGINNING; THENCE SOUTH 84°33' WEST 947.23 FEET; THENCE SOUTH 46°35' WEST 490.41 FEET; THENCE NORTH 47°23' WEST 311.75 FEET; THENCE NORTH 17°55' WEST 659.90 FEET; THENCE NORTH 26°02' WEST 176.16 FEET; THENCE SOUTH 46°35' WEST 561.79 FEET, MORE OR LESS TO WATER'S EDGE SANTA FE RIVER; THENCE GENERALLY EASTERLY ALONG WATER'S EDGE NORTH BANK SANTA FE RIVER TO WEST LINE LOT AT WATER'S EDGE, SECTION 2, 3 RIVERS ESTATES; THENCE NORTH 3°33' WEST 620.89 FEET; THENCE SOUTH 78°49' WEST 438.89 FEET; THENCE SOUTH 50°51' WEST 681.83 FEET TO POINT OF BEGINNING; BEING A PART OF SECTIONS 25, 26, 35 AND 36, TOWNSHIP 6 SOUTH, RANGE 15 EAST, COLUMBIA COUNTY, FLORIDA.

BEING ALSO DESCRIBED AS:

LOTS 47 AND 48, OF THREE RIVERS ESTATES UNIT 5 AS PER PLAT THEREOF RECORDED IN PLAT BOOK 4, PAGE 38 OF THE PUBLIC RECORDS OF COLUMBIA COUNTY, FLORIDA.

- SURVEYOR'S NOTES:
- BOUNDARY BASED ON MONUMENTATION FOUND IN ACCORDANCE WITH THE RETRACEMENT OF THE RECORD TITLE BOUNDARIES OF THIS PARCEL TO THE BEST OF MY ABILITY TO INTERPRET AND LOCATE SAID BOUNDARIES BASED ON THE EVIDENCE OF PRIOR SURVEYS AND RECORDS PROVIDED TO OR OTHERWISE OBTAINED BY THIS OFFICE.
 - BEARINGS BASED ON PLAT OF RECORD USING MONUMENTS FOUND AT THE PRM SHOWN HEREON AND THE NE CORNER OF LOT 48, WHICH ARE BOTH ON THE WESTERLY R/W LINE OF SW SANTA FE DRIVE.
 - THIS PARCEL IS IN ZONE "AE" AND IS DETERMINED TO BE SUBJECT TO FLOODING AS PER FLOOD INSURANCE RATE MAP, DATED FEBRUARY 4, 2009, COMMUNITY PANEL NOS. 12023C0466C AND 12023C0467C.
 - NO EASEMENT FOR UTILITY AND/OR DRAINAGE IS SHOWN ON THIS LOT IN RECORDS IN THE POSSESSION OF THIS OFFICE.
 - THE IMPROVEMENTS, IF ANY, INDICATED ON THIS SURVEY DRAWING ARE AS LOCATED ON DATE OF FIELD SURVEY AS SHOWN HEREON.
 - IF THEY EXIST, NO UNDERGROUND ENCROACHMENTS AND/OR UTILITIES WERE LOCATED FOR THIS SURVEY EXCEPT AS SHOWN HEREON.
 - "NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER."
 - CLOSURE OF FIELD SURVEY IS BETTER THAN 1/7500. BOUNDARY AND CONTROL MONUMENTS CAN BE EXPECTED TO HAVE BEEN MEASURED TO APPROXIMATELY THAT RATIO OF PRECISION. BUILDINGS AND SIMILAR IMPROVEMENTS ARE LOCATED WITHIN ± 0.2 FEET OF THE ACTUAL LOCATION UNLESS OTHERWISE NOTED. OTHER IMPROVEMENTS SUCH AS UTILITY POLES, SEPTIC TANKS, TREES, INTERIOR FENCES, ETC. ARE NORMALLY WITHIN ± 0.5 FEET UNLESS OTHERWISE NOTED.
 - EXCEPTION IS MADE HEREON REGARDING EASEMENTS, RESERVATIONS, RESTRICTIONS, AND/OR TITLE CONFLICTS OF RECORD, IF ANY, NOT PROVIDED BY THE CLIENT OR HIS AGENTS OR DISCOVERED BY THIS OFFICE. AN EFFORT HAS BEEN MADE IN GOOD FAITH TO SHOW PHYSICAL EVIDENCE OF EASEMENTS, OCCUPATION AND USE BY OTHER PARTIES, HOWEVER PHYSICAL CONDITIONS ON THE PARCEL MAY HAVE PREVENTED DISCOVERY OF ALL SUCH EVIDENCE.
 - CERTIFIED TO:
FREDERIC MERSHON

SUWANNEE RIVER WATER MANAGEMENT DISTRICT EFFECTIVE FLOOD INFORMATION REPORT.
FLOOD ZONES: AE FW
1% ANNUAL CHANCE ELEVATION (100 YEAR FLOOD) (BF): 33.5 FEET NAVD 1988 DATUM.
10% ANNUAL CHANCE ELEVATION (10 YEAR FLOOD): 27.6 FEET NAVD 1988 DATUM.
50% ANNUAL CHANCE ELEVATION (2 YEAR FLOOD): 22 FEET NAVD 1988 DATUM.

CONTOURS, BENCH MARKS AND SPOT ELEVATIONS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).

THE STATE OF FLORIDA MAY HAVE CLAIMS TO THE ORDINARY HIGH WATER LINE AS "SOVEREIGN LANDS". THE TOP OF THE RIVER BANK IS OFTEN INTERPRETED BY THE STATE OF FLORIDA AS THE ORDINARY HIGH WATER LINE AND MAY HAVE A LEGAL CLAIM TO THE LAND BETWEEN THE TOP OF BANK AND THE "RIVERS EDGE" OR "WATER'S EDGE". THE ACREAGE OF THIS PARCEL IS CALCULATED TO THE TOP OF BANK. THE RIVER BANK HAS CHANGED DUE TO EROSION SINCE THE ORIGINAL SURVEY FOR THE PLAT OF RECORD. EROSION OR THE MOVEMENT OF THE ORDINARY HIGH WATER LINE DOES NOT AFFECT THE RIPARIAN RIGHTS OF THE LAND OWNER TO ACCESS THE WATER OF THE RIVER OR TO DOCK A BOAT AS LONG AS THE CONSTRUCTION OF DOCKS OR DECKS EXTENDING INTO OR OVER THE WATER MEETS THE REQUIREMENTS OF ANY LOCAL, STATE OR FEDERAL AGENCY THAT MAY HAVE REGULATORY JURISDICTION OVER SUCH STRUCTURES.

- SYMBOL LEGEND
- O.R.I. OFFICIAL RECORD INSTRUMENT
 - CONCRETE MONUMENT FOUND
 - CONCRETE MONUMENT SET, LS 4708
 - IRON PIN OR PIPE FOUND
 - 5/8" IRON ROD SET, LS 4708
 - WIRE FENCE
 - ELECTRIC UTILITY LINE (OVERHEAD)
 - UNDERGROUND ELECTRIC SERVICE
 - CABLE TV LINE (OVERHEAD)
 - CHAIN LINK FENCE
 - WOODEN FENCE
 - CMP CORRUGATED METAL PIPE
 - RCP REINFORCED CONCRETE PIPE
 - LAND SURVEYOR
 - LB LICENSED BUSINESS
 - ORB OFFICIAL RECORD BOOK
 - PRM PERMANENT REFERENCE MONUMENT
 - PCP PERMANENT CONTROL POINT
 - UTILITY POLE
 - R/W RIGHT-OF-WAY
 - NO ID. NO IDENTIFICATION
 - FLA. D.O.T. FLA. DEPT. OF TRANSPORTATION
 - C CENTERLINE
 - C.M. CONCRETE MONUMENT
 - I.R. IRON ROD
 - I.P. IRON PIPE
 - "SRD" STATE ROAD DEPARTMENT

EXTRA ABBREVIATION:
(F) FIELD, AS IN "FIELD MEASUREMENT"
(D) DEED, AS IN "DEED DIMENSION"
(P) PLAT, AS IN "PLAT DIMENSION"
(R) RECORD, AS IN "RECORD DIMENSION"
(C) RECORD, AS IN "CALCULATED DIMENSION"

MARK D. DUREN AND ASSOCIATES, INC.
LB 7620
1604 SW SISTERS WELCOME ROAD
LAKE CITY, FLA. 32025
(386) 758-9831 OFFICE
(386) 758-8010 FAX

FIELD SURVEY DATE: JUNE 30, 2022
DATE DRAWN: JULY 2, 2022
FOR: MERSHON
FIELD BOOK: 264, PAGE: 54
DRAWN BY: M. DUREN
WO# 22-103
SEE 15-162

SIGNING SURVEYOR:
MARK D. DUREN, LS 4708
1604 SW SISTERS WELCOME ROAD
LAKE CITY, FL 32025

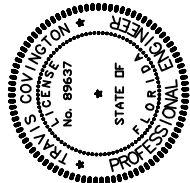
SIGNED: MARK D. DUREN, LS 4708

EXHIBIT C

LOCATION MAP

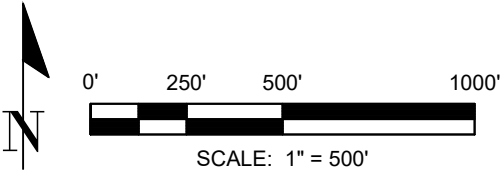
LOCATION MAP
LOTS 47 & 48, THREE RIVERS ESTATES
COLUMBIA COUNTY, FL

TRAVIS COVINGTON, P.E.
272 NW COUNTRY LAKE DR
LAKE CITY, FL 32055
813-770-9470
travis@covingtoneng.com



PREPARED FOR:
RICKY MERSHON
2360 JANELLS RIVER DR
FOLKSTON, GA 31537
904-318-7158
RMERSHON@USA.COM

MERSHON RESIDENCE
LOCATION MAP
1276 SW SANTE FE DRIVE, FT. WHITE, FL

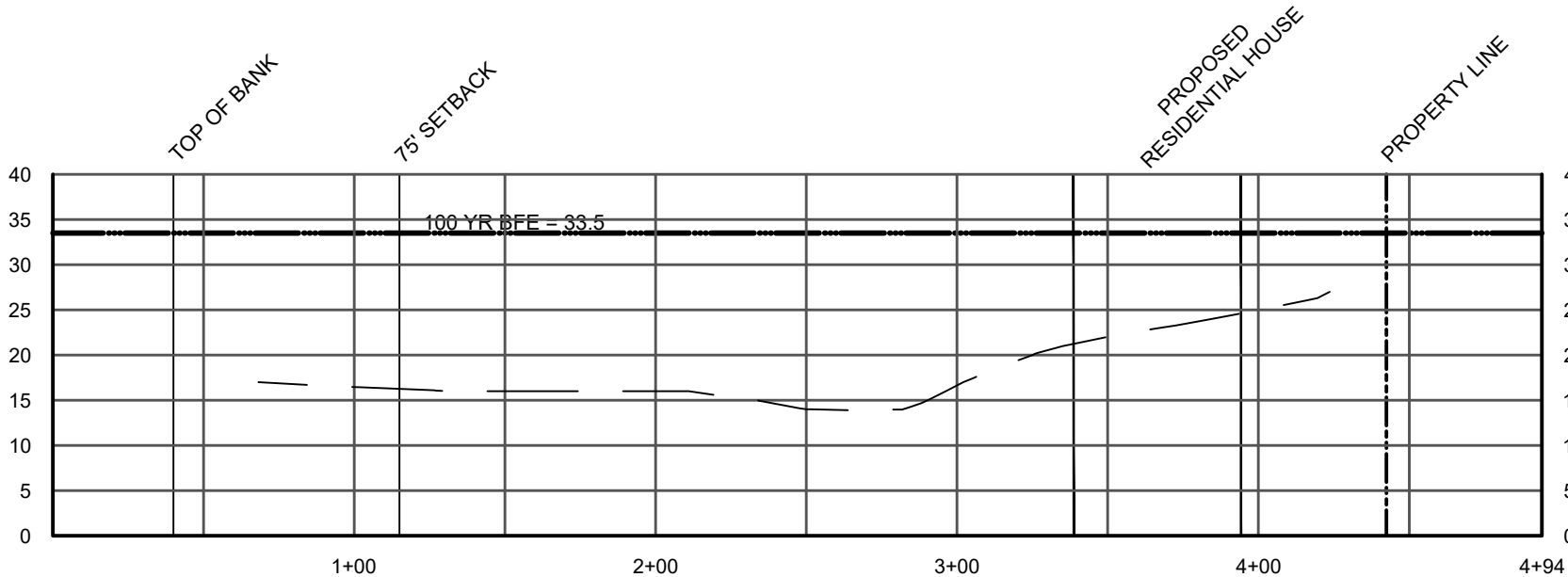


PROJECT NO.	FL00010
DATE	3/29/23
SHEET NO.	1 OF 1

EXHIBIT D

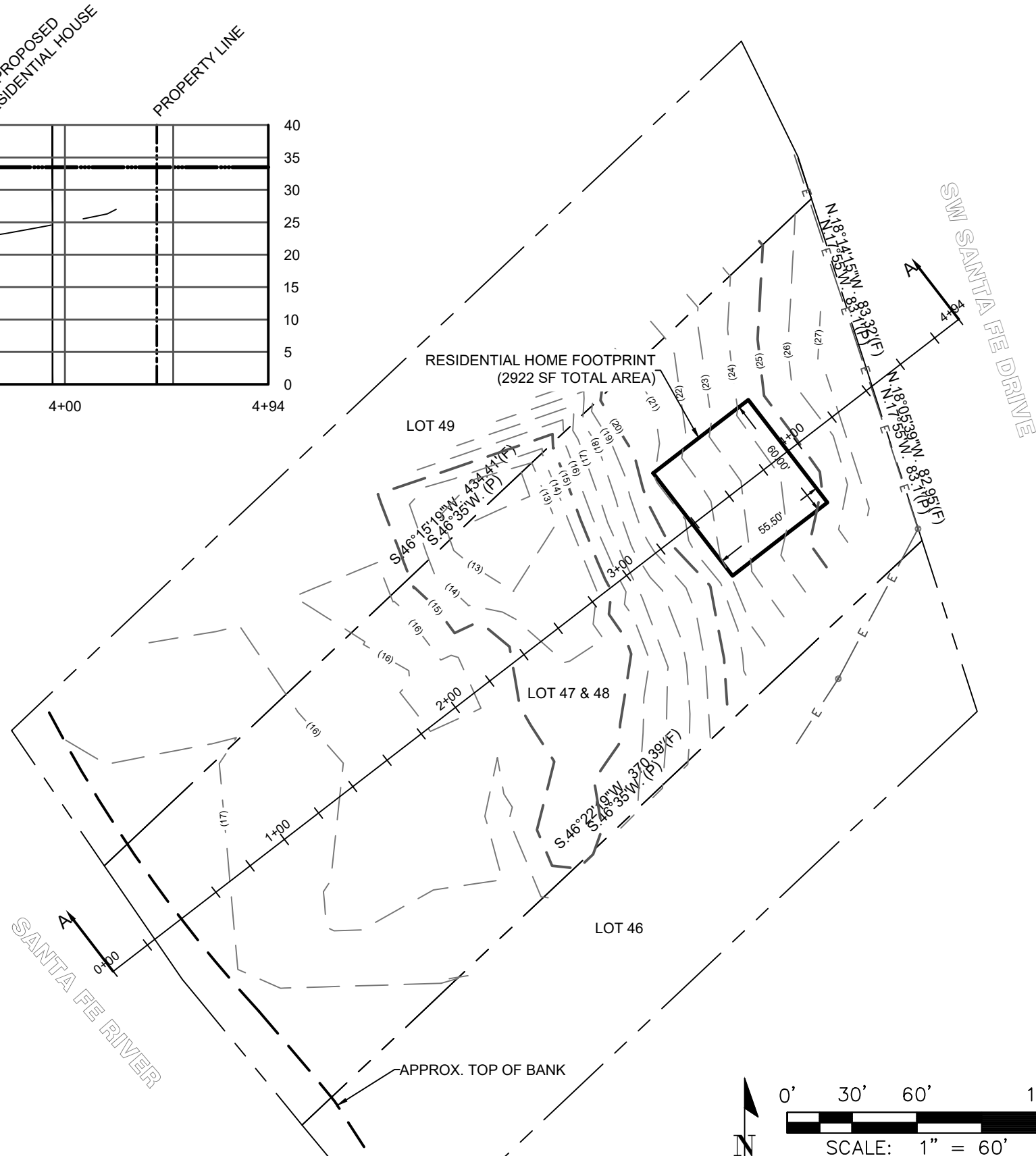
SITE PLAN & CROSS SECTION

SITE PLAN
LOTS 47 & 48, THREE RIVERS ESTATES
COLUMBIA COUNTY, FL
SECTION 26, TOWNSHIP 6 SOUTH, RANGE 15 EAST
PARCEL ID #: 00-00-00-00640-000



SCALE:
1"=60' HORIZ.
1"=20' VERT

SECTION A-A

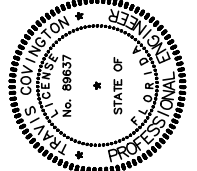


THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY TRAVIS COVINGTON, P.E. ON THE DATE ADJACENT TO THE SEAL.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

TRAVIS COVINGTON, P.E.

272 NW COUNTRY LAKE DR
LAKE CITY, FL 32055

813-770-9470
travis@covingtoneng.com



PREPARED FOR:

RICKY MERSON
2360 JANELLS RIVER DR
FOLKSTON, GA 31537

904-318-7158

RMERSON@USA.COM

MERSON RESIDENCE

SITE PLAN & CROSS SECTION

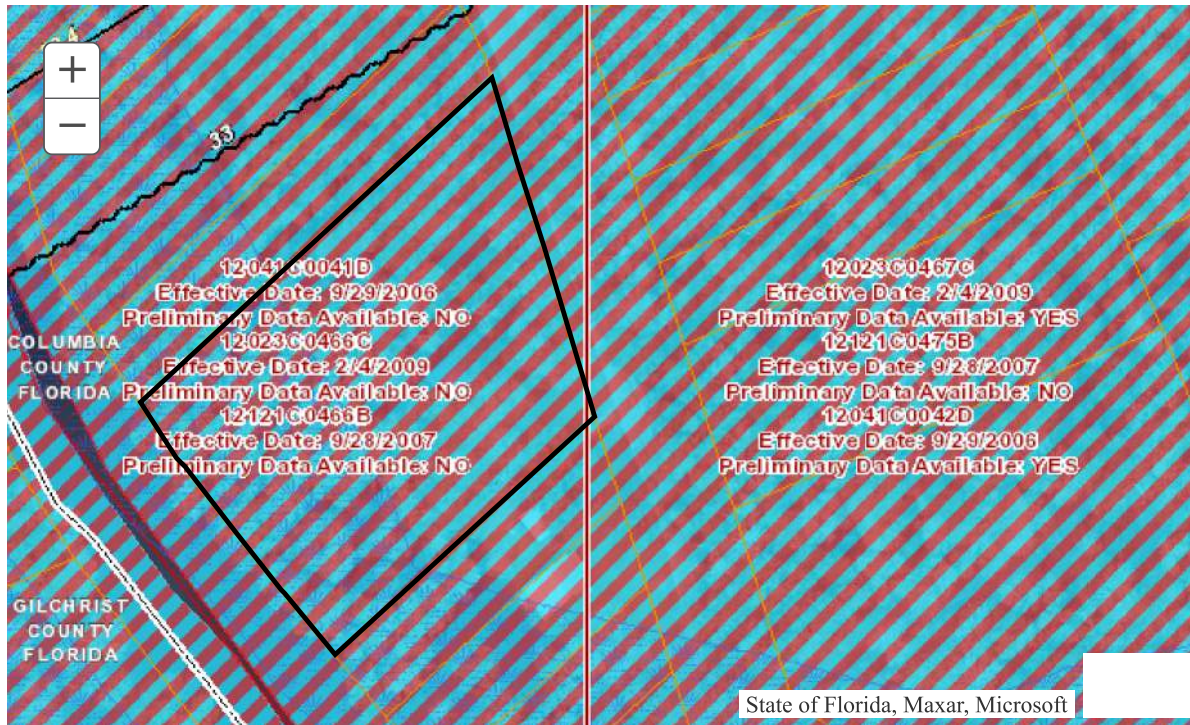
1276 SW SANTE FE DRIVE, FT. WHITE, FL

PROJECT NO.	FL00010
DATE	3/29/23
SHEET NO.	1 OF 1

EXHIBIT E

SRWMD FLOOD REPORT

EFFECTIVE FLOOD INFORMATION REPORT



Location Information

County: **COLUMBIA**
 Parcel: **00-00-00-00639-000**
 Flood Zone: **AE FW**
 Flood Risk: **HIGH**

1% Annual Chance Base Flood Elev* **33.5 (feet)**
 10% Annual Chance Flood Elev* **27.6 (feet)**
 50% Annual Chance Flood Elev* **22 (feet)**

* Flood Elevations shown on this report are in NAVD 88 and are derived from FEMA flood mapping products, rounded to the nearest tenth of a foot. For more information, please see the note below

Legend with Flood Zone Designations

	1% Flood - Floodway (High Risk)		Area Not Included		CrossSections		Wetlands
	1% Flood - Zone AE (High Risk)		SFHA Decrease		County Boundaries		
	1% Flood - Zone A (HighRisk)		SFHA Increase		FIRM Panel Index		
	1% Flood - Zone VE (HighRisk)		Depressions		Parcels		
	0.2% Flood-Shaded Zone X (Moderate Risk)		BaseFlood Elevations (BFE)		River Marks		

Supplemental Information

Watershed	Santa Fe	Map Effective Date	2/4/2009	Special Flood Hazard Area	Yes
FIRM Panel(s)	12023C0467C, 12023C0466C				

Anywhere it can rain, it can flood
 Know your risk.

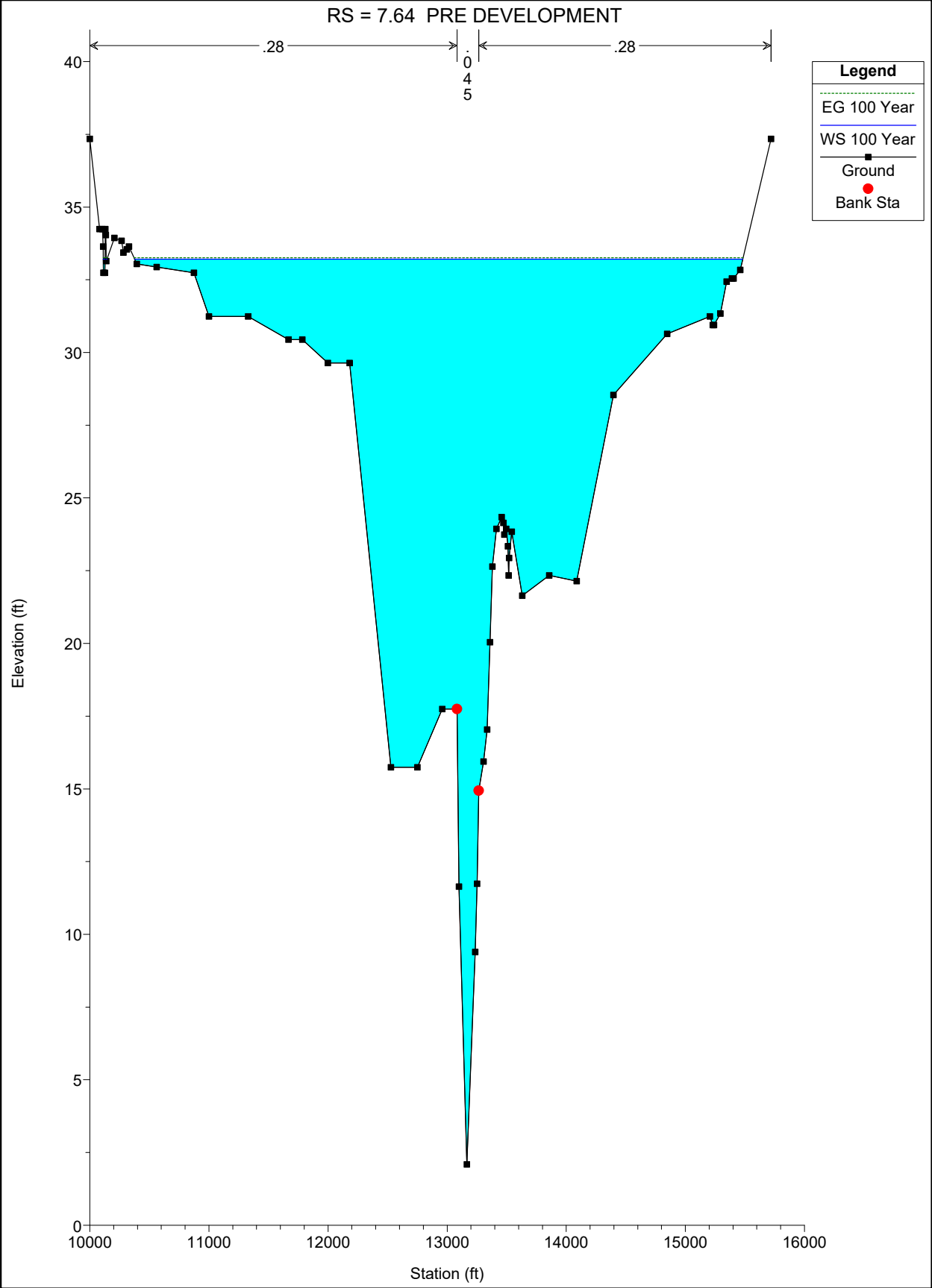


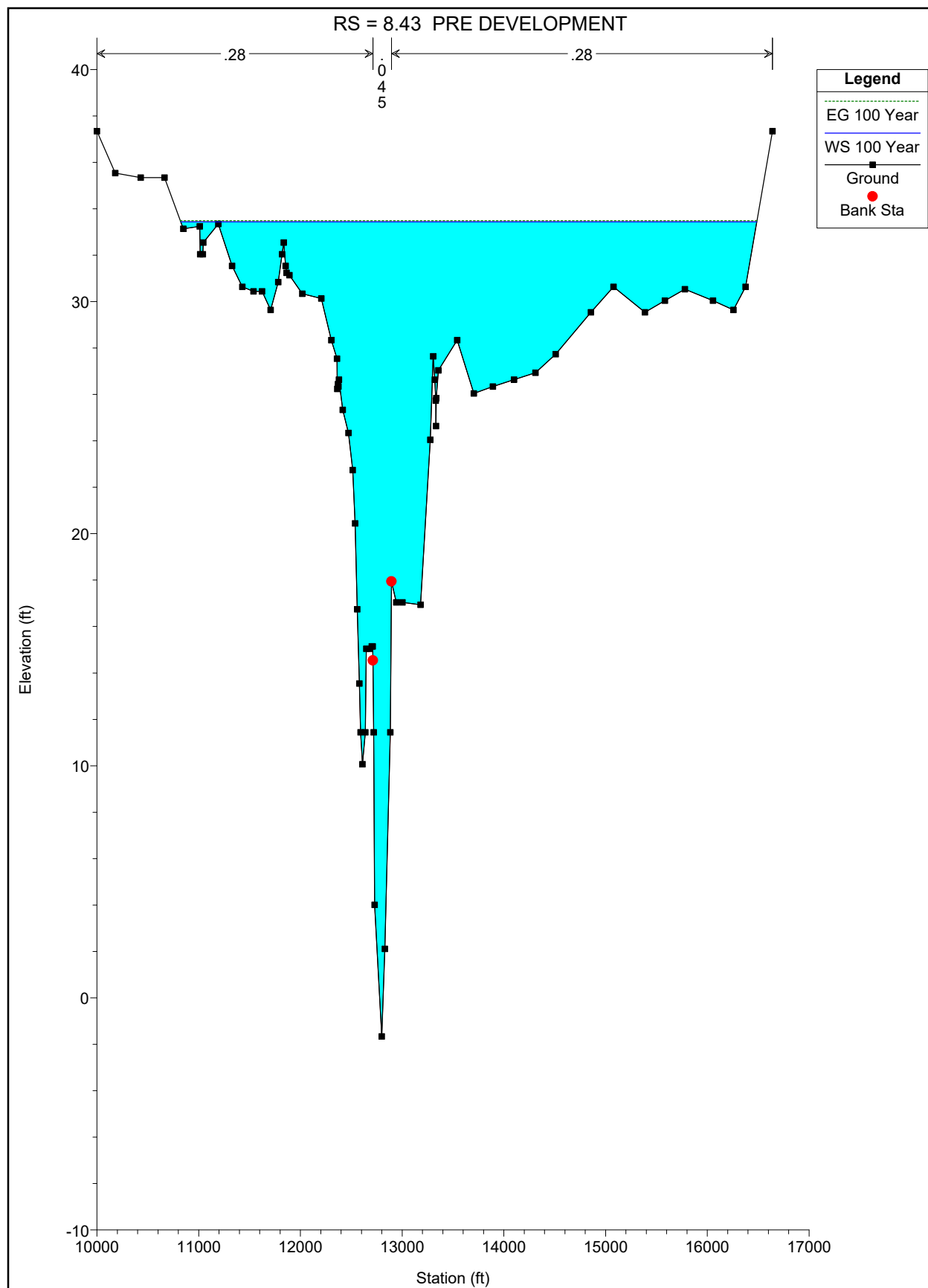
www.srwmfloodreport.com

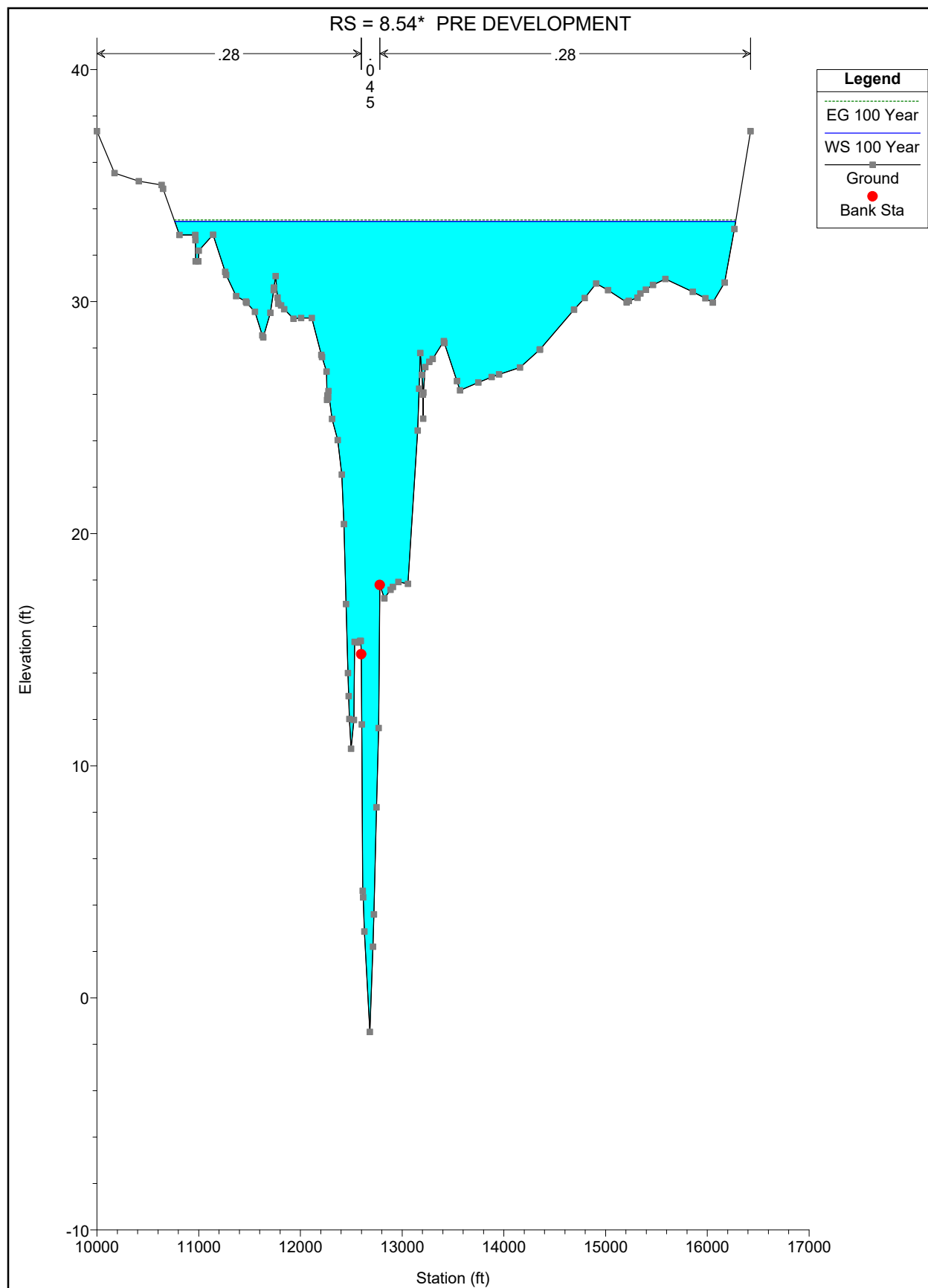
The information herein represents the best available data as of the effective map date shown. The Federal Emergency Management Agency (FEMA) Flood Map Service Center (<https://msc.fema.gov>) maintains the database of Flood Insurance Studies and Digital Flood Insurance Rate Maps, as well as additional information such as how the Base Flood Elevations (BFEs) and/or floodways have been determined and previously issued Letters of Map Change. Requests to revise flood information may be provided to the District during the community review period on preliminary maps, or through the appropriate process with FEMA [Change Your Flood Zone Designation | FEMA.gov](https://www.floodsmart.com). Information about flood insurance may be obtained at (<https://www.floodsmart.com>)

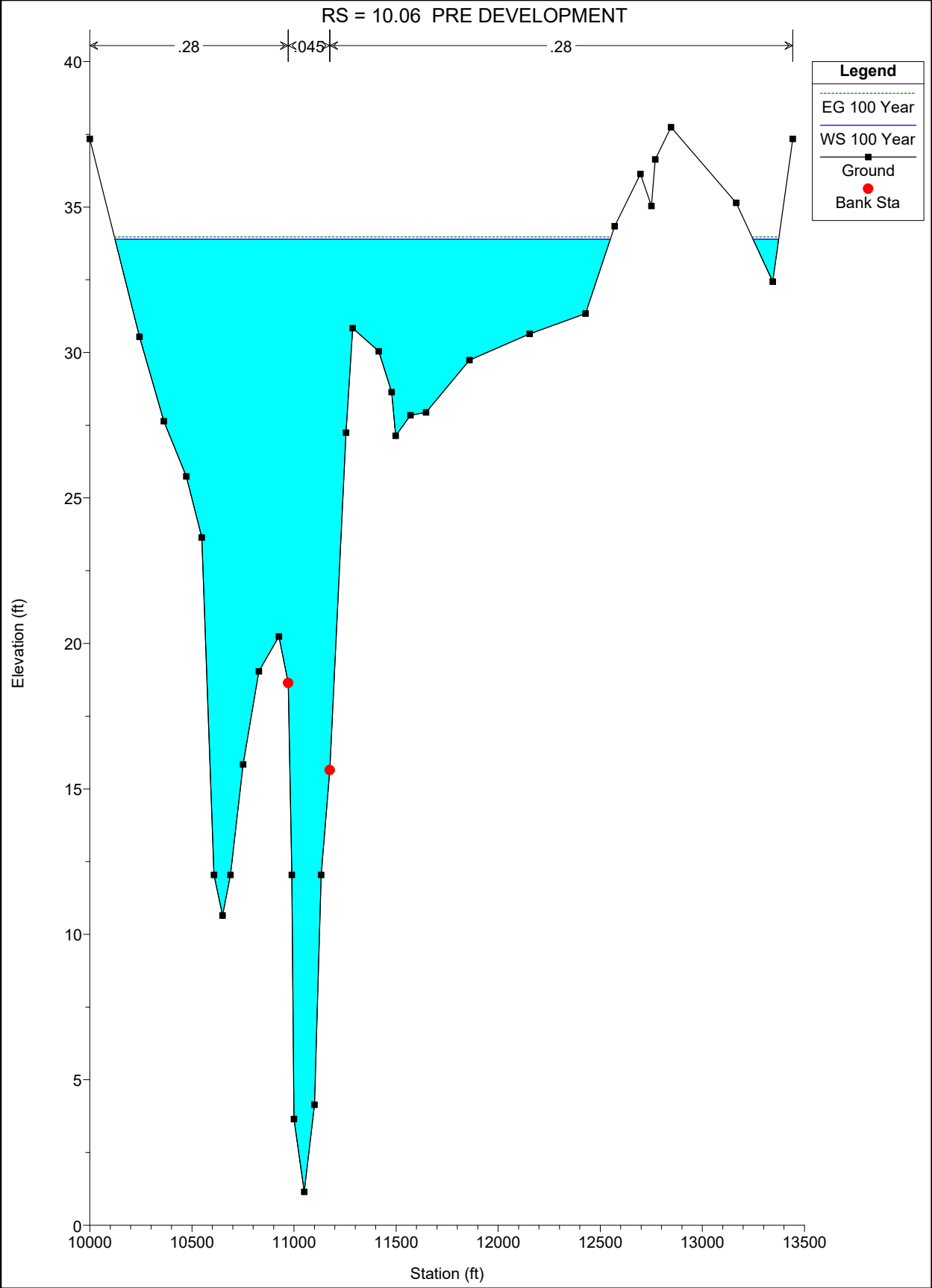
EXHIBIT F

PRE-DEVELOPMENT CROSS SECTIONS









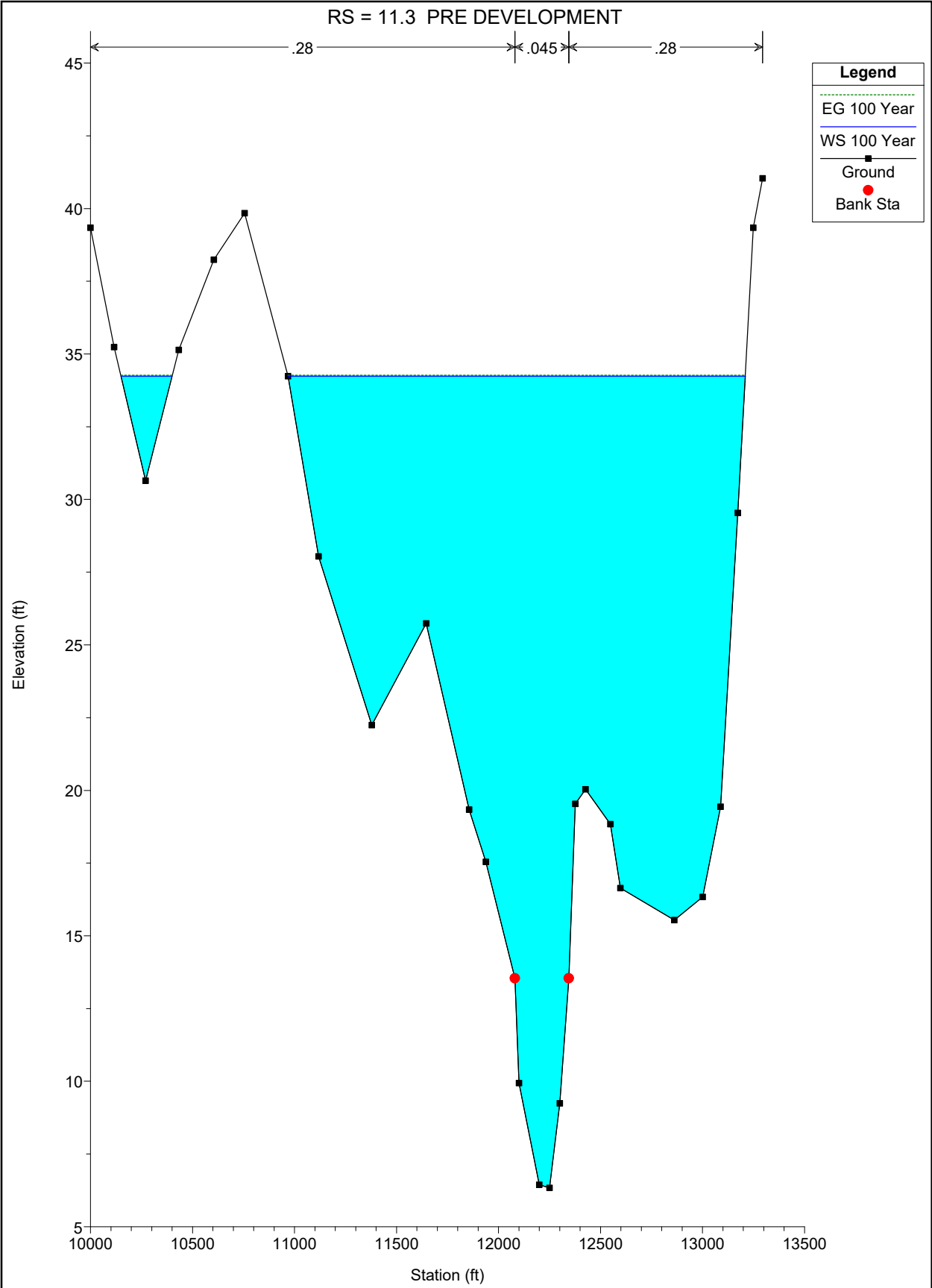
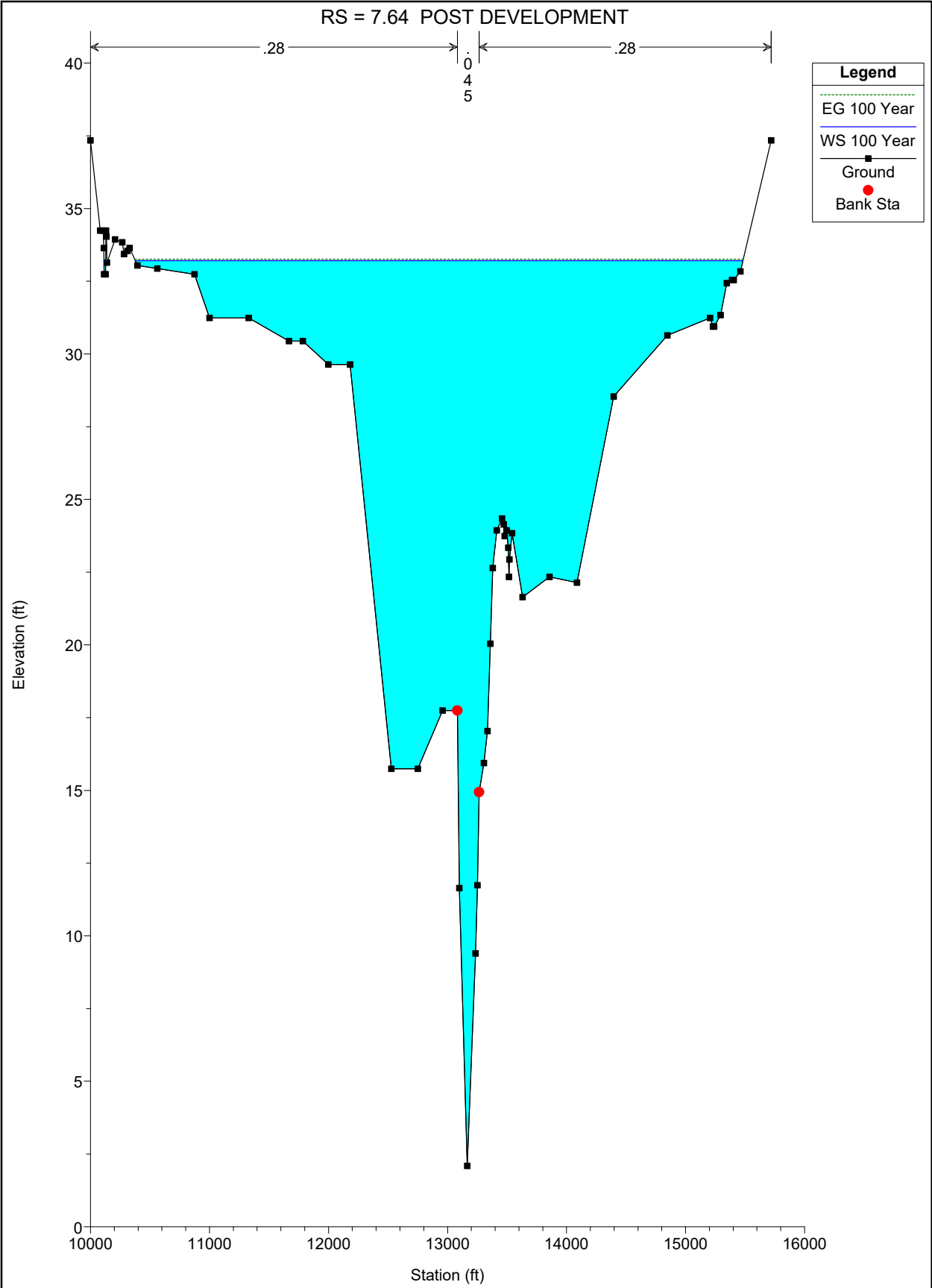
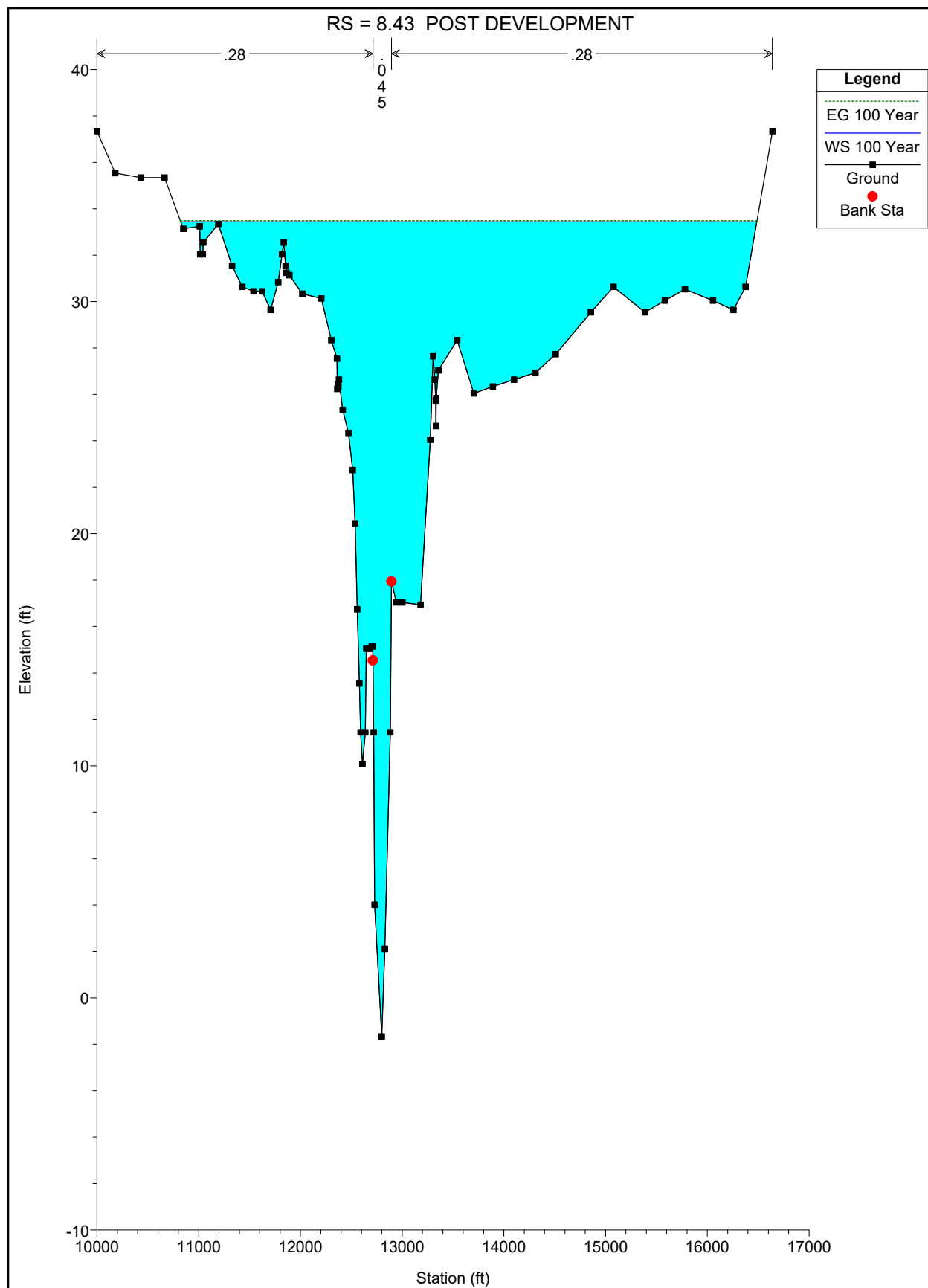
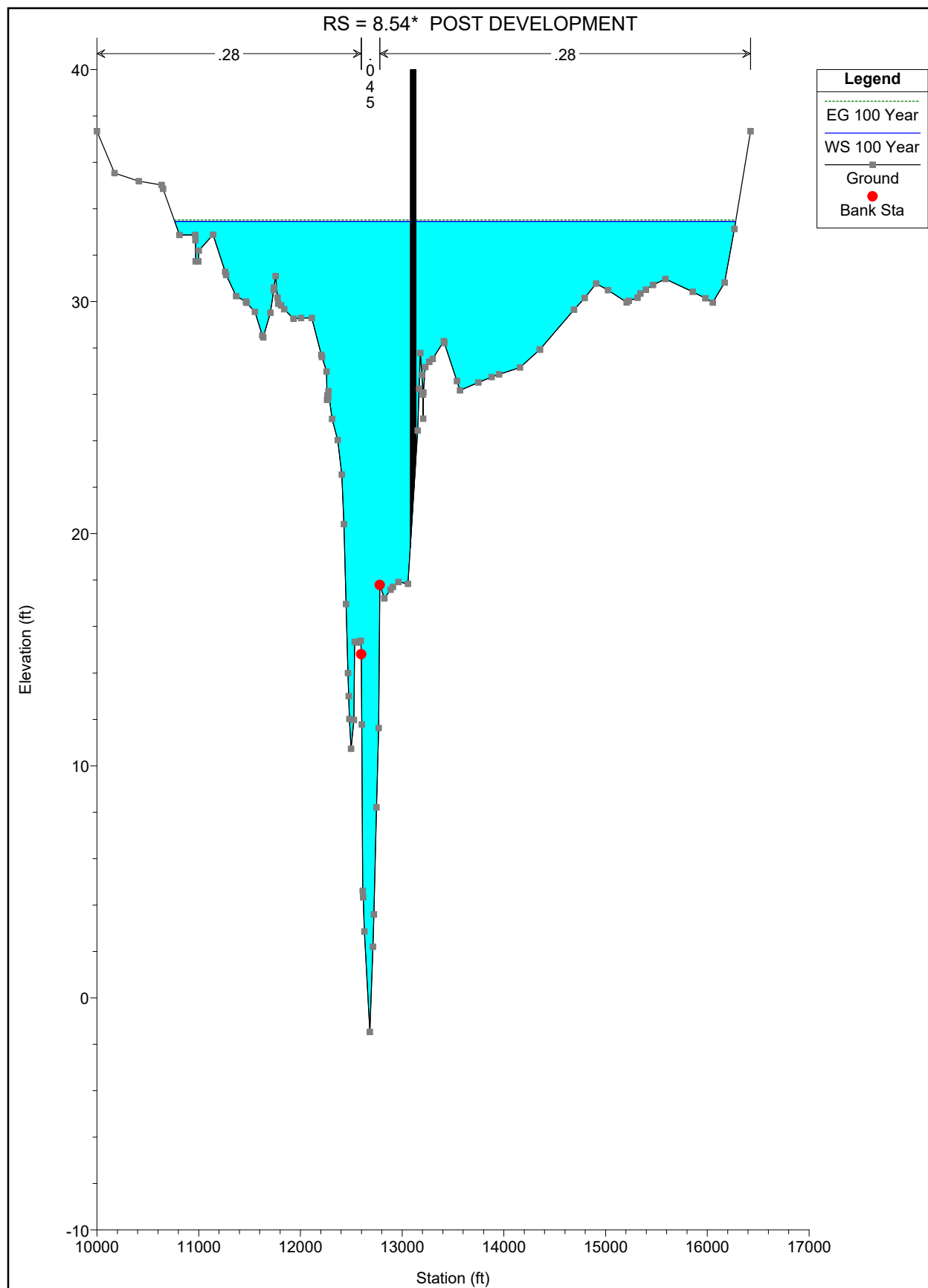


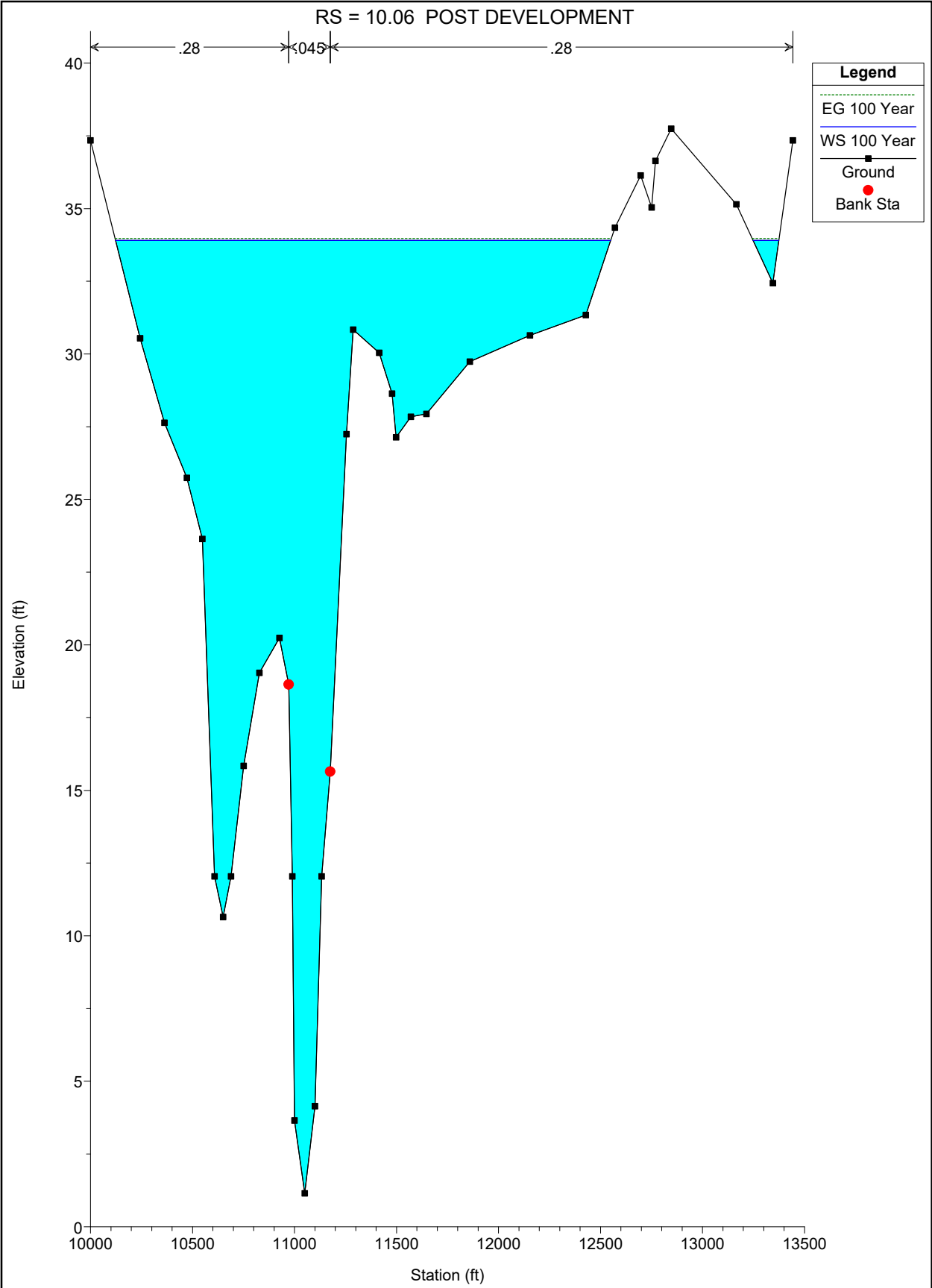
EXHIBIT G

POST-DEVELOPMENT CROSS SECTIONS









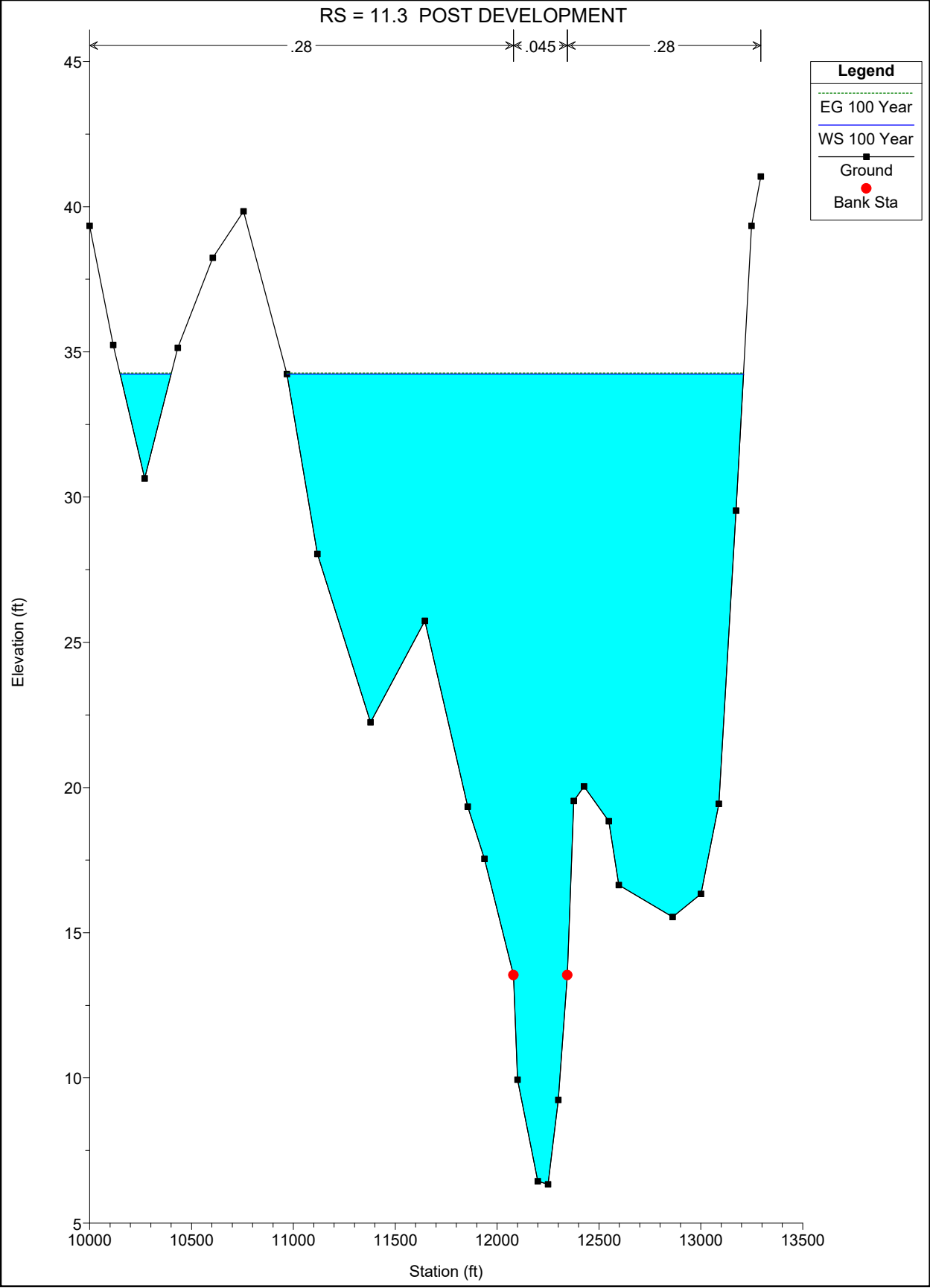


EXHIBIT H

HEC-RAS ANALYSIS & RESULTS

PRE-DEVELOPMENT

HEC-RAS HEC-RAS 6.3.1 September 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

```
X      X  XXXXXX      XXXX      XXXX      XX      XXXX
X      X  X          X      X      X      X      X
X      X  X          X          X      X      X
XXXXXXXX XXXX      X          XXX XXXX      XXXXXX      XXXX
X      X  X          X          X      X      X      X
X      X  X          X      X      X      X      X
X      X  XXXXXX      XXXX      X      X      X      XXXXX
```

PROJECT DATA

Project Title: PRE

Project File : PRE.prj

Run Date and Time: 3/28/2023 9:32:37 PM

Project in English units

Project Description:

Upper Suwannee River Floodplain Model 10, 50, 100, 500

Taylor

Engineering

Adapted from HEC-2 Provided by SRWMD

Model was truncated to only include: Dixie, Gilchrist and Lafayette Counties.
Converted to HEC-RAS 3.1.3, with some updates to structures and adjacent cross
sections August 2005 by Dewberry and Davis LLC - Atlanta Office

The floodway did not require any adjustments to width following updated survey data.
Floodway stations were moved to account for new stationing on some sections.

PLAN DATA

Plan Title: Floodway Run

Plan File : C:\Users\TravisCovington\Documents\PROJECTS\No Rise\FL00010 -
MERSHON\DWGS\HEC-RAS\PRE DEVELOPMENT\PRE.p02

Geometry Title: Updated 2005

Geometry File : C:\Users\TravisCovington\Documents\PROJECTS\No
Rise\FL00010 - MERSHON\DWGS\HEC-RAS\PRE DEVELOPMENT\PRE.g01

Flow Title : Floodway

Flow File : C:\Users\TravisCovington\Documents\PROJECTS\No
Rise\FL00010 - MERSHON\DWGS\HEC-RAS\PRE DEVELOPMENT\PRE.f02

Plan Summary Information:

Number of:	Cross Sections =	298	Multiple Openings =	0
	Culverts =	0	Inline Structures =	0
	Bridges =	27	Lateral Structures =	0

Computational Information

Water surface calculation tolerance = 0.003
Critical depth calculation tolerance = 0.003
Maximum number of iterations = 20
Maximum difference tolerance = 0.1
Flow tolerance factor = 0.001

Computation Options

Critical depth computed only where necessary
Conveyance Calculation Method: Between every coordinate point (HEC2 Style)
Friction Slope Method: Average Conveyance
Computational Flow Regime: Subcritical Flow

Encroachment Data

Equal Conveyance = True
Left Offset = 0
Right Offset = 0

River = Santa Fe		Reach = Main		
RS	Profile	Method	Value1	Value2
79.85	FW	1	11748	13914
79.1	FW	1	11751	14501
78.16	FW	1	11175	14425
76.67	FW	1	11077	12902
75.55	FW	1	13117	13450
75.15	FW	1	13519	13841
75	FW	1	13519	13691
74.98	FW	1	13730	13798
74.97	FW	1	13730	13798
74.92	FW	1	12760	13058
74.35	FW	1	13535	13911
74.3	FW	1	13778	14066
74.28	FW	1	12900	13101
74.27	FW	1	12900	13101
74.23	FW	1	13778	14066
74.04	FW	1	13578	14216
73.94	FW	1	13528	14446
73.36	FW	1	11527	13077
73.32	FW	1	11906.2	13864.7
73.31	FW	1	11092.3	11363
73.3	FW	1	10888.7	12618.1
73.27	FW	1	10888.7	12618.1
72.59	FW	1	10388	11224
71.46	FW	1	11917	12761
70.18	FW	1	10513.9	11110.1
69.45	FW	1	10622.3	10950.5
69.38	FW	1	11550	11652
69.37	FW	1	11550	11652
69.22	FW	1	10831	11293
68.72	FW	1	10736	11214
67.83	FW	1	11957.3	12768.6
67.11	FW	1	10562	11152
65.99	FW	1	10799	11834.2
65.97	FW	1	10996.4	11617
65.96	FW	1	11085.6	11617
65.89	FW	1	10903.2	11798.1
65.86	FW	1	10910.1	11796.1
64.57	FW	1	10976.2	11472.7
63.6	FW	1	10143	11830

62.24	FW	1	10171	12971
61.02	FW	1	10591	13058
59.68	FW	1	11827.6	12959.4
59.66	FW	1	10865	11065
59.65	FW	1	10865	11065
59.57	FW	1	11834.8	12950.8
59.26	FW	1	11560	12380
58.81	FW	1	11510	12035
58.79	FW	1	10315	10479
58.78	FW	1	10315	10476
58.7	FW	1	11510	12335
58.15	FW	1	11398	12448
57.21	FW	1	10927	11727
56.22	FW	1	11067	11967
55.99	FW	1	11067	11967
55.96	FW	1	12460	13610
55.95	FW	1	12460	13610
55.83	FW	1	10813	12613
54.27	FW	1	11100	12385
53.44	FW	1	10333	11733
51.87	FW	1	11150	13550
49.61	FW	1	12785	14322
49.48	FW	1	13817	15609
49.46	FW	1	13901	15349
49.45	FW	1	13901	15349
49.38	FW	1	13817	15609
49.31	FW	1	13817	15609
49.29	FW	1	14693	16393
49.28	FW	1	14693	16393
49.19	FW	1	14839.3	16588.4
48.04	FW	1	16259	17693.5
46.59	FW	1	12394.1	14173.5
45.48	FW	1	10484.9	12085.4
44.02	FW	1	11805	13551
42.54	FW	1	10083	14281
41.67	FW	1	11164	14130
41.63	FW	1	11164	14130
41.62	FW	1	11321	14621
41.61	FW	1	11321	14621
41.56	FW	1	10640	14637
40.91	FW	1	10572	12069
39.81	FW	1	11200	12953
39.02	FW	1	10108	10730
37.98	FW	1	10982	13472
37.25	FW	1	10533	13666
37.19	FW	1	10533	13666
37.17	FW	1	10550	13865
37.16	FW	1	10550	13865
37.07	FW	1	10406	13994
35.58	FW	1	10782	16371
35.57	FW	1	10782	16371
33.85	FW	1	10981	15203
33.09	FW	1	11012	13334
32.18	FW	1	11413	13528
30.42	FW	1	10675	17380
28.94	FW	1	10136	14876
27.82	FW	1	10997	13555
27.79	FW	1	10997	13555
27.77	FW	1	10897	13384
27.76	FW	1	10897	13384

27.68	FW	1	10373	12821
26.52	FW	1	9800	12900
25.19	FW	1	11176	11726
24.54	FW	1	10906	11301
24.52	FW	1	10906	11301
24.51	FW	1	11125	11595
24.5	FW	1	11125	11595
24.49	FW	1	10906	11301
24.48	FW	1	11678	12222
24.47	FW	1	11678	12222
24.44	FW	1	10942	11309
24.15	FW	1	10471	11010
23.82	FW	1	10508	10999
23.14	FW	1	10720	11461
22.24	FW	1	10634	11158
21.59	FW	1	12184	12725
20.44	FW	1	10537	11905
19.62	FW	1	10940	12164
18.49	FW	1	10716	12303
17.78	FW	1	11513	13128
17.28	FW	1	10213	11698
16.53	FW	1	11939	13607
15.75	FW	1	13828	15755
15.72	FW	1	13974.5	15901.5
15.7	FW		113800.25	15570.25
15.66	FW	1	14195	15938
15.08	FW	1	10868	12511
14.08	FW	1	11417	13300
13.03	FW	1	12170	14002
11.3	FW	1	11380	12995
10.06	FW	1	10391	11608
8.43	FW	1	12043	14142
7.64	FW	1	11909	13603
6.46	FW	1	13592	15193
4.73	FW	1	10932	12384
3.6	FW	1	10109	11719
2.88	FW	1	10951	12711
2.5	FW	1	11586	13299
2.46	FW	1	10705	12409
2.42	FW		110471.66	12121.66
2.39	FW	1	11054	12568
1.61	FW	1	10219	11589

River = Suwannee	Reach = BelowSF			
RS	Profile	Method	Value1	Value2
65.66	FW	1	15173	22192
63.87	FW	1	11283	15888
63.27	FW	1	10872	17455
62.67	FW	1	11369	18740
62.24	FW	1	10539	19904
61.75	FW	1	12213	20931
60.91	FW	1	11324	14718
60.38	FW	1	17809	20000
60.36	FW	1	12890.6	18955
59.56	FW	1	6939	12872.9
58.2	FW	1	5751.7	11047.7
57.9	FW	1	5884	10229.29
56.9	FW	1	5905.26	11503.76
56.53	FW	1	6198	13198.31
55.31	FW	1	4711	9204

53.94	FW	1	6305	13000
52.03	FW	1	5241.112967	.96
50.53	FW	1	5680.411585	.24
47.35	FW	1	8627.6413422	.92
44.31	FW	1	18404	22661
41.97	FW		121589.5425774	.01
39.76	FW	1	22097.4	27175.2
38.9	FW		123038.4931829	.46
37.9	FW	1	24332.7	29319.7
37.38	FW	1	20952	25199
36.1	FW	1	19720	25555
35.9	FW	1	4257.55	6720.55
34.9	FW	1	4287.23	6700.43
34.21	FW	1	3944	10020
33.48	FW	1	6978	10150
32.32	FW	1	8245	11166
30.46	FW	1	13104	16201
28.07	FW	1	13760	18448
26.54	FW		119165.41	22696.1
24.83	FW	1	11938	15621
23.47	FW	1	6630	10578
21.49	FW	1	17326	22173
19.92	FW	1	19869	26472
17.65	FW	1	23194	31001
15.4	FW	1	24298	31389
13.11	FW	1	26701	41400
9.81	FW	1	31912	47714
7.49	FW	1	39512	53434
5.83	FW	1	53257	71534
3.15	FW	1	49704	72725

River = Suwannee		Reach = WtoSF		
RS	Profile	Method	Value1	Value2
127.51	FW	1	11175	16586
127.49	FW	1	11175	16586
127.47	FW	1	10661	16102
127.46	FW	1	10661	16102
127.44	FW	1	10900	16327
127.38	FW	1	10900	16327
127.35	FW	1	10900	16327
127.33	FW	1	11000	16840
127.32	FW	1	11000	16840
127.3	FW	1	11950	17780
127.24	FW	1	11950	17780
126.58	FW	1	11200	15729
125.56	FW	1	12475	17810
124.93	FW	1	12567	18886
124.88	FW	1	12567	18886
124.86	FW	1	12478	19170
124.85	FW	1	12478	19170
124.83	FW	1	12134	18877
124.78	FW	1	12134	18877
124.42	FW	1	12338	20334
122.45	FW	1	16777	21388
121.63	FW	1	19677	24546
120.87	FW		113195.4219331	.25
119.69	FW		111740.1118355	.39
118.66	FW		113289.1318112	.82
117.17	FW		114644.9219079	.15
116.26	FW		112012.2316988	.05

114.94	FW	1	14480	17107
114.37	FW	1	14720	17255
113.29	FW	1	11877	15570
112.92	FW	1	11126	14179
112.91	FW	1	13430	16483
112.88	FW	1	13457	16458
112.86	FW	1	13511	16512
112.83	FW	1	14273	17320
112.8	FW	1	14273	17320
112.77	FW	1	14154	17096
112.72	FW	1	13615	16557
112.46	FW	1	13568	15834
112.17	FW	1	13303	15450
111.18	FW	1	1334216316.48	
110.69	FW	1	11466	14165
109.87	FW	1	12956	16119
109.22	FW	1	14193	17538
108.57	FW	114546.8717280.01		
107.88	FW	1	13828	16417
107.34	FW	1	14064	17627
106.69	FW	113529.3117864.05		
105.88	FW	113743.39	17683.6	
105.36	FW	115834.33	19297	
104.59	FW	113718.1817202.81		
104.03	FW	1	13700	17268
103.3	FW	1	14318	18210
102.89	FW	1	17687	21090
101.82	FW	1	15517	19825
101.48	FW	1	14893.8	19782.6
100.51	FW	114272.9917799.21		
100.23	FW	1	14900	18661
99.18	FW	1	14714	20826
98.23	FW	1	14076	20826
98.19	FW	1	13909	20693
98.169	FW	1	13908.7	20514.7
98.12	FW	1	14112	20718
97.37	FW	1	12000	18100
96.6	FW	1	12300	17600
95.91	FW	113228.8817520.16		
95.541	FW	1	14053	19214
95.54	FW	1	13953	19212
93.85	FW	1	17046	19061
92.89	FW	1	15110	17179
92.2	FW	1	15200	17150
91.48	FW	1	11968	14288
90.11	FW	1	13792.516627.67	
89.24	FW	1	17057	21161
88.24	FW	1	17816	20540
87.45	FW	1	20732	23657
86.73	FW	1	20546	23972
85.95	FW	1	18864	23034
85.7	FW	1	20999	25109
84.85	FW	1	15027	18561
84.2	FW	1	17588	21670
83.08	FW	1	16417	20776
82.16	FW	1	16586	22193
81.59	FW	1	18793	23013
81.32	FW	1	19185	23588
80.2	FW	1	12000	17554
79.52	FW	1	16035	20721

79.01	FW	1	13500	18053
78.5	FW	1	13000	17960
77.99	FW	111898.0814888.81		
77.49	FW	1	11600	15174
77.06	FW	1	11548	13937
76.77	FW	1	11541	15594
76.51	FW	1	11012	14595
76.15	FW	1	1101216048.84	
76.12	FW	1	1133416370.17	
76.1	FW	111634.9515127.66		
76.06	FW	1	10968	14640
75.84	FW	1	1073115237.19	
75.58	FW	1	15156	19780
75.07	FW	114978.0619456.14		
74.71	FW	113342.8417107.24		
74.27	FW	1	13902	17310
73.55	FW	1	12687	17648
73.09	FW	1	15083	20157
72.77	FW	1	16325	20594
71.96	FW	1	15588	21664
70.98	FW	1	15366	21709
69.16	FW	1	11039	18223
68.53	FW	1	13250	18969
66.47	FW	1	17087	24124

FLOW DATA

Flow Title: Floodway

Flow File : C:\Users\TravisCovington\Documents\PROJECTS\No Rise\FL00010 -
MERSHON\DWGS\HEC-RAS\PRE DEVELOPMENT\PRE.f02

Flow Data (cfs)

River	Reach	RS	100 Year	FW
Santa Fe	Main	79.85	374	374
Santa Fe	Main	73.36	2965	2965
Santa Fe	Main	67.11	4665	4665
Santa Fe	Main	57.21	8767	8767
Santa Fe	Main	49.61	25162	25162
Santa Fe	Main	44.02	23767	23767
Santa Fe	Main	39.81	32800	32800
Santa Fe	Main	37.25	32569	32569
Santa Fe	Main	33.85	24427	24427
Santa Fe	Main	28.94	23206	23206
Santa Fe	Main	27.79	20910	20910
Santa Fe	Main	25.19	19587	19587
Santa Fe	Main	19.62	16717	16717
Santa Fe	Main	15.66	16359	16359
Suwannee	WtoSF	127.51	76500	76500
Suwannee	WtoSF	124.93	71400	71400
Suwannee	WtoSF	112.92	69500	69500
Suwannee	WtoSF	106.69	67800	67800
Suwannee	WtoSF	101.82	66300	66300
Suwannee	WtoSF	98.23	64900	64900
Suwannee	WtoSF	91.48	63900	63900
Suwannee	WtoSF	86.73	63250	63250
Suwannee	WtoSF	82.16	62950	62950

Suwannee	WtoSF	76.12	62100	62100
Suwannee	WtoSF	70.98	62100	62100
Suwannee	BelowSF	65.66	67300	67300

Boundary Conditions

River	Reach	Profile	Upstream
Downstream			
Suwannee	BelowSF	100 Year	
Known WS = 1.87			
Suwannee	BelowSF	FW	
Known WS = 1.87			

Observed Water Surface Marks

River	Reach	RS	100 Year	FW
RIVER-1	Reach-1	97	58	
RIVER-1	Reach-1	96	58	
RIVER-1	Reach-1	95	57	
RIVER-1	Reach-1	94	56.9	
RIVER-1	Reach-1	93	56.9	
RIVER-1	Reach-1	92	56.9	
RIVER-1	Reach-1	91	56.8	
RIVER-1	Reach-1	90	56.8	
RIVER-1	Reach-1	89	56.8	
RIVER-1	Reach-1	88	56.8	
RIVER-1	Reach-1	87	56.7	
RIVER-1	Reach-1	86	56.6	
RIVER-1	Reach-1	85	56.5	
RIVER-1	Reach-1	84	56.3	
RIVER-1	Reach-1	83	56	
RIVER-1	Reach-1	82	55.8	
RIVER-1	Reach-1	81	55.2	
RIVER-1	Reach-1	80	55	
RIVER-1	Reach-1	79	54.7	
RIVER-1	Reach-1	78	54.2	
RIVER-1	Reach-1	77	54	
RIVER-1	Reach-1	76	53.8	
RIVER-1	Reach-1	75	53.3	
RIVER-1	Reach-1	74	53	
RIVER-1	Reach-1	73	52.9	
RIVER-1	Reach-1	72	52.5	
RIVER-1	Reach-1	71	52.1	
RIVER-1	Reach-1	70	52	
RIVER-1	Reach-1	69	51.5	
RIVER-1	Reach-1	68	51.2	
RIVER-1	Reach-1	67	51	
RIVER-1	Reach-1	66	51	
RIVER-1	Reach-1	65	50.8	
RIVER-1	Reach-1	64	50.2	
RIVER-1	Reach-1	63	49.9	
RIVER-1	Reach-1	62	49.8	
RIVER-1	Reach-1	61	49.6	
RIVER-1	Reach-1	60	49.6	
RIVER-1	Reach-1	59	49.5	
RIVER-1	Reach-1	58	48.8	
RIVER-1	Reach-1	57	47.8	

RIVER-1	Reach-1	56	47.2
RIVER-1	Reach-1	55	47.1
RIVER-1	Reach-1	54	47.1
RIVER-1	Reach-1	53	46.2
RIVER-1	Reach-1	52	45.8
RIVER-1	Reach-1	51	45.3
RIVER-1	Reach-1	50	45
RIVER-1	Reach-1	49	44.2
RIVER-1	Reach-1	48	43.8
RIVER-1	Reach-1	47	43
RIVER-1	Reach-1	46	42.2
RIVER-1	Reach-1	45	42
RIVER-1	Reach-1	44	41.5
RIVER-1	Reach-1	43	41.2
RIVER-1	Reach-1	42	40.8
RIVER-1	Reach-1	41	40.1
RIVER-1	Reach-1	40	39.5
RIVER-1	Reach-1	39	38.9
RIVER-1	Reach-1	38	38.5
RIVER-1	Reach-1	37	38.2
RIVER-1	Reach-1	36	37.8
RIVER-1	Reach-1	35	37.3
RIVER-1	Reach-1	34	37
RIVER-1	Reach-1	33	36.8
RIVER-1	Reach-1	32	36.5
RIVER-1	Reach-1	31	36.2
RIVER-1	Reach-1	30	36
RIVER-1	Reach-1	29	36
RIVER-1	Reach-1	28	35.9
RIVER-1	Reach-1	27	35.7
RIVER-1	Reach-1	26	35.6
RIVER-1	Reach-1	25	35.2
RIVER-1	Reach-1	24	35.1
RIVER-1	Reach-1	23	35.1
RIVER-1	Reach-1	22	35
RIVER-1	Reach-1	21	35
RIVER-1	Reach-1	20	35
RIVER-1	Reach-1	19	34.9
RIVER-1	Reach-1	18	34.8
RIVER-1	Reach-1	17	34.6
RIVER-1	Reach-1	16	34.2
RIVER-1	Reach-1	15	34
RIVER-1	Reach-1	14	33.9
RIVER-1	Reach-1	13	33.4
Upper Suwannee	Upper	112.932	58
Upper Suwannee	Upper	112.922	58
Upper Suwannee	Upper	112.912	57
Upper Suwannee	Upper	112.902	56.9
Upper Suwannee	Upper	112.892	56.9
Upper Suwannee	Upper	112.872	56.9
Upper Suwannee	Upper	112.842	56.8
Upper Suwannee	Upper	112.812	56.8
Upper Suwannee	Upper	112.802	56.8
Upper Suwannee	Upper	112.792	56.8
Upper Suwannee	Upper	112.782	56.7
Upper Suwannee	Upper	112.732	56.6
Upper Suwannee	Upper	112.472	56.5
Upper Suwannee	Upper	112.182	56.3
Upper Suwannee	Upper	111.192	56
Upper Suwannee	Upper	110.702	55.8

Upper Suwannee	Upper	109.882	55.2
Upper Suwannee	Upper	109.232	55
Upper Suwannee	Upper	108.582	54.7
Upper Suwannee	Upper	107.892	54.2
Upper Suwannee	Upper	107.352	54
Upper Suwannee	Upper	106.702	53.8
Upper Suwannee	Upper	105.892	53.3
Upper Suwannee	Upper	105.372	53
Upper Suwannee	Upper	104.602	52.9
Upper Suwannee	Upper	104.042	52.5
Upper Suwannee	Upper	103.312	52.1
Upper Suwannee	Upper	102.902	52
Upper Suwannee	Upper	101.832	51.5
Upper Suwannee	Upper	101.492	51.2
Upper Suwannee	Upper	100.521	51
Upper Suwannee	Upper	100.242	51
Upper Suwannee	Upper	99.192	50.8
Upper Suwannee	Upper	98.242	50.2
Upper Suwannee	Upper	98.202	49.9
Upper Suwannee	Upper	98.192	49.8
Upper Suwannee	Upper	98.186	49.6
Upper Suwannee	Upper	98.182	49.6
Upper Suwannee	Upper	98.132	49.5
Upper Suwannee	Upper	97.382	48.8
Upper Suwannee	Upper	96.611	47.8
Upper Suwannee	Upper	95.921	47.2
Upper Suwannee	Upper	95.551	47.1
Upper Suwannee	Upper	95.549	47.1
Upper Suwannee	Upper	93.860	46.2
Upper Suwannee	Upper	92.900	45.8
Upper Suwannee	Upper	92.210	45.3
Upper Suwannee	Upper	91.490	45
Upper Suwannee	Upper	90.120	44.2
Upper Suwannee	Upper	89.250	43.8
Upper Suwannee	Upper	88.250	43
Upper Suwannee	Upper	87.460	42.2
Upper Suwannee	Upper	86.740	42
Upper Suwannee	Upper	85.960	41.5
Upper Suwannee	Upper	85.710	41.2
Upper Suwannee	Upper	84.860	40.8
Upper Suwannee	Upper	84.210	40.1
Upper Suwannee	Upper	83.090	39.5
Upper Suwannee	Upper	82.170	38.9
Upper Suwannee	Upper	81.600	38.5
Upper Suwannee	Upper	81.330	38.2
Upper Suwannee	Upper	80.212	37.8
Upper Suwannee	Upper	79.532	37.3
Upper Suwannee	Upper	79.022	37
Upper Suwannee	Upper	78.512	36.8
Upper Suwannee	Upper	78.002	36.5
Upper Suwannee	Upper	77.502	36.2
Upper Suwannee	Upper	77.072	36
Upper Suwannee	Upper	76.782	36
Upper Suwannee	Upper	76.522	35.9
Upper Suwannee	Upper	76.162	35.7
Upper Suwannee	Upper	76.132	35.6
Upper Suwannee	Upper	76.122	35.2
Upper Suwannee	Upper	76.117	35.1
Upper Suwannee	Upper	76.112	35.1
Upper Suwannee	Upper	76.072	35

Upper Suwannee	Upper	75.852	35
Upper Suwannee	Upper	75.592	35
Upper Suwannee	Upper	75.082	34.9
Upper Suwannee	Upper	74.722	34.8
Upper Suwannee	Upper	74.282	34.6
Upper Suwannee	Upper	73.562	34.2
Upper Suwannee	Upper	73.102	34
Upper Suwannee	Upper	72.782	33.9
Upper Suwannee	Upper	71.972	33.4
Suwannee	UpstreamEnd	112.932	58
Suwannee	UpstreamEnd	112.922	58
Suwannee	UpstreamEnd	112.912	57
Suwannee	UpstreamEnd	112.902	56.9
Suwannee	UpstreamEnd	112.892	56.9
Suwannee	UpstreamEnd	112.872	56.9
Suwannee	UpstreamEnd	112.842	56.8
Suwannee	UpstreamEnd	112.812	56.8
Suwannee	UpstreamEnd	112.802	56.8
Suwannee	UpstreamEnd	112.792	56.8
Suwannee	UpstreamEnd	112.782	56.7
Suwannee	UpstreamEnd	112.732	56.6
Suwannee	UpstreamEnd	112.472	56.5
Suwannee	UpstreamEnd	112.182	56.3
Suwannee	UpstreamEnd	111.192	56
Suwannee	UpstreamEnd	110.702	55.8
Suwannee	UpstreamEnd	109.882	55.2
Suwannee	UpstreamEnd	109.232	55
Suwannee	UpstreamEnd	108.582	54.7
Suwannee	UpstreamEnd	107.892	54.2
Suwannee	UpstreamEnd	107.352	54
Suwannee	UpstreamEnd	106.702	53.8
Suwannee	UpstreamEnd	105.892	53.3
Suwannee	UpstreamEnd	105.372	53
Suwannee	UpstreamEnd	104.602	52.9
Suwannee	UpstreamEnd	104.042	52.5
Suwannee	UpstreamEnd	103.312	52.1
Suwannee	UpstreamEnd	102.902	52
Suwannee	UpstreamEnd	101.832	51.5
Suwannee	UpstreamEnd	101.492	51.2
Suwannee	UpstreamEnd	100.521	51
Suwannee	UpstreamEnd	100.242	51
Suwannee	UpstreamEnd	99.192	50.8
Suwannee	UpstreamEnd	98.242	50.2
Suwannee	UpstreamEnd	98.202	49.9
Suwannee	UpstreamEnd	98.192	49.8
Suwannee	UpstreamEnd	98.186	49.6
Suwannee	UpstreamEnd	98.182	49.6
Suwannee	UpstreamEnd	98.132	49.5
Suwannee	UpstreamEnd	97.382	48.8
Suwannee	UpstreamEnd	96.611	47.8
Suwannee	UpstreamEnd	95.921	47.2
Suwannee	UpstreamEnd	95.551	47.1
Suwannee	UpstreamEnd	95.549	47.1
Suwannee	UpstreamEnd	93.860	46.2
Suwannee	UpstreamEnd	92.900	45.8
Suwannee	UpstreamEnd	92.210	45.3
Suwannee	UpstreamEnd	91.490	45
Suwannee	UpstreamEnd	90.120	44.2
Suwannee	UpstreamEnd	89.250	43.8
Suwannee	UpstreamEnd	88.250	43

Suwannee	UpstreamEnd	87.460	42.2
Suwannee	UpstreamEnd	86.740	42
Suwannee	UpstreamEnd	85.960	41.5
Suwannee	UpstreamEnd	85.710	41.2
Suwannee	UpstreamEnd	84.860	40.8
Suwannee	UpstreamEnd	84.210	40.1
Suwannee	UpstreamEnd	83.090	39.5
Suwannee	UpstreamEnd	82.170	38.9
Suwannee	UpstreamEnd	81.600	38.5
Suwannee	UpstreamEnd	81.330	38.2
Suwannee	UpstreamEnd	80.212	37.8
Suwannee	UpstreamEnd	79.532	37.3
Suwannee	UpstreamEnd	79.022	37
Suwannee	UpstreamEnd	78.512	36.8
Suwannee	UpstreamEnd	78.002	36.5
Suwannee	UpstreamEnd	77.502	36.2
Suwannee	UpstreamEnd	77.072	36
Suwannee	UpstreamEnd	76.782	36
Suwannee	UpstreamEnd	76.522	35.9
Suwannee	UpstreamEnd	76.162	35.7
Suwannee	UpstreamEnd	76.132	35.6
Suwannee	UpstreamEnd	76.122	35.2
Suwannee	UpstreamEnd	76.117	35.1
Suwannee	UpstreamEnd	76.112	35.1
Suwannee	UpstreamEnd	76.072	35
Suwannee	UpstreamEnd	75.852	35
Suwannee	UpstreamEnd	75.592	35
Suwannee	UpstreamEnd	75.082	34.9
Suwannee	UpstreamEnd	74.722	34.8
Suwannee	UpstreamEnd	74.282	34.6
Suwannee	UpstreamEnd	73.562	34.2
Suwannee	UpstreamEnd	73.102	34
Suwannee	UpstreamEnd	72.782	33.9
Suwannee	UpstreamEnd	71.972	33.4

GEOMETRY DATA

Geometry Title: Updated 2005
Geometry File : C:\Users\TravisCovington\Documents\PROJECTS\No Rise\FL00010 -
MERSHON\DWGS\HEC-RAS\PRE DEVELOPMENT\PRE.g01

Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
Santa Fe	Main		Santa Fe
Suwannee	WtoSF		Santa Fe
Suwannee	BelowSF	Santa Fe	

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 11.3

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	34.27	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.03	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.24	Reach Len. (ft)	5900.00	6550.00	4400.00
Crit W.S. (ft)		Flow Area (sq ft)	12431.91	6797.07	13571.57
E.G. Slope (ft/ft)	0.000035	Area (sq ft)	12431.91	6797.07	13571.57
Q Total (cfs)	16359.00	Flow (cfs)	2027.75	11560.72	2770.54
Top Width (ft)	2491.92	Top Width (ft)	1362.51	265.00	864.42
Vel Total (ft/s)	0.50	Avg. Vel. (ft/s)	0.16	1.70	0.20
Max Chl Dpth (ft)	27.90	Hydr. Depth (ft)	9.12	25.65	15.70
Conv. Total (cfs)	2757580.0	Conv. (cfs)	341810.2	1948749.0	467020.1
Length Wtd. (ft)	6223.42	Wetted Per. (ft)	1363.00	265.67	866.01
Min Ch El (ft)	6.34	Shear (lb/sq ft)	0.02	0.06	0.03
Alpha	8.26	Stream Power (lb/ft s)	0.00	0.10	0.01
Frctn Loss (ft)	0.30	Cum Volume (acre-ft)	14875.29	8361.08	30371.06
C & E Loss (ft)	0.00	Cum SA (acres)	1484.59	233.34	1714.51

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	35.03	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.03	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.99	Reach Len. (ft)	5900.00	6550.00	4400.00
Crit W.S. (ft)		Flow Area (sq ft)	9662.21	6998.14	11621.34
E.G. Slope (ft/ft)	0.000035	Area (sq ft)	9662.21	6998.14	11621.34
Q Total (cfs)	16359.00	Flow (cfs)	1787.29	12113.97	2457.75
Top Width (ft)	1615.00	Top Width (ft)	700.00	265.00	650.00
Vel Total (ft/s)	0.58	Avg. Vel. (ft/s)	0.18	1.73	0.21
Max Chl Dpth (ft)	28.65	Hydr. Depth (ft)	13.80	26.41	17.88
Conv. Total (cfs)	2762659.0	Conv. (cfs)	301831.8	2045771.0	415056.9
Length Wtd. (ft)	6268.36	Wetted Per. (ft)	712.94	265.67	669.33
Min Ch El (ft)	6.34	Shear (lb/sq ft)	0.03	0.06	0.04
Alpha	6.66	Stream Power (lb/ft s)	0.01	0.10	0.01
Frctn Loss (ft)	0.29	Cum Volume (acre-ft)	12574.85	8600.70	18138.67
C & E Loss (ft)	0.00	Cum SA (acres)	823.12	233.50	802.81

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 10.06

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	33.97	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.07	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	33.90	Reach Len. (ft)	5132.65	8025.60	5785.90

Crit W.S. (ft)		Flow Area (sq ft)	9622.35	5433.42	6133.61
E.G. Slope (ft/ft)	0.000068	Area (sq ft)	9622.35	5433.42	6133.61
Q Total (cfs)	16359.00	Flow (cfs)	2537.13	13002.67	819.20
Top Width (ft)	2551.41	Top Width (ft)	848.95	203.00	1499.46
Vel Total (ft/s)	0.77	Avg. Vel. (ft/s)	0.26	2.39	0.13
Max Chl Dpth (ft)	32.75	Hydr. Depth (ft)	11.33	26.77	4.09
Conv. Total (cfs)	1985289.0	Conv. (cfs)	307900.0	1577973.0	99415.7
Length Wtd. (ft)	7406.81	Wetted Per. (ft)	850.45	208.31	1500.65
Min Ch El (ft)	1.15	Shear (lb/sq ft)	0.05	0.11	0.02
Alpha	7.66	Stream Power (lb/ft s)	0.01	0.26	0.00
Frctn Loss (ft)	0.45	Cum Volume (acre-ft)	13381.71	7441.55	29375.85
C & E Loss (ft)	0.00	Cum SA (acres)	1334.82	198.15	1595.13

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	34.73	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.07	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.66	Reach Len. (ft)	5132.65	8025.60	5785.90
Crit W.S. (ft)		Flow Area (sq ft)	9105.22	5588.85	3024.95
E.G. Slope (ft/ft)	0.000065	Area (sq ft)	9105.22	5588.85	3024.95
Q Total (cfs)	16359.00	Flow (cfs)	2550.53	13291.74	516.73
Top Width (ft)	1217.00	Top Width (ft)	581.00	203.00	433.00
Vel Total (ft/s)	0.92	Avg. Vel. (ft/s)	0.28	2.38	0.17
Max Chl Dpth (ft)	33.51	Hydr. Depth (ft)	15.67	27.53	6.99
Conv. Total (cfs)	2035586.0	Conv. (cfs)	317368.1	1653921.0	64297.5
Length Wtd. (ft)	7393.67	Wetted Per. (ft)	589.94	208.31	440.88
Min Ch El (ft)	1.15	Shear (lb/sq ft)	0.06	0.11	0.03
Alpha	5.41	Stream Power (lb/ft s)	0.02	0.26	0.00
Frctn Loss (ft)	0.40	Cum Volume (acre-ft)	11303.87	7654.37	17398.96
C & E Loss (ft)	0.01	Cum SA (acres)	736.37	198.32	748.11

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 8.54*

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	33.52	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.06	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	33.46	Reach Len. (ft)	367.35	574.40	414.10
Crit W.S. (ft)		Flow Area (sq ft)	9218.11	5308.47	19450.20
E.G. Slope (ft/ft)	0.000054	Area (sq ft)	9218.11	5308.47	19450.20
Q Total (cfs)	16359.00	Flow (cfs)	1583.51	11877.82	2897.67
Top Width (ft)	5514.72	Top Width (ft)	1833.44	183.40	3497.87
Vel Total (ft/s)	0.48	Avg. Vel. (ft/s)	0.17	2.24	0.15
Max Chl Dpth (ft)	34.93	Hydr. Depth (ft)	5.03	28.94	5.56
Conv. Total (cfs)	2229139.0	Conv. (cfs)	215774.5	1618517.0	394847.6
Length Wtd. (ft)	525.38	Wetted Per. (ft)	1835.58	189.20	3498.96
Min Ch El (ft)	-1.47	Shear (lb/sq ft)	0.02	0.09	0.02
Alpha	15.71	Stream Power (lb/ft s)	0.00	0.21	0.00
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	12271.73	6451.99	27676.76
C & E Loss (ft)	0.00	Cum SA (acres)	1176.79	162.56	1263.24

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	34.33	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.05	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.28	Reach Len. (ft)	367.35	574.40	414.10
Crit W.S. (ft)		Flow Area (sq ft)	10750.98	5459.04	22334.65
E.G. Slope (ft/ft)	0.000045	Area (sq ft)	10750.98	5459.04	22334.65
Q Total (cfs)	16359.00	Flow (cfs)	1712.25	11438.23	3208.52
Top Width (ft)	5613.06	Top Width (ft)	1900.77	183.40	3528.90
Vel Total (ft/s)	0.42	Avg. Vel. (ft/s)	0.16	2.10	0.14
Max Chl Dpth (ft)	35.75	Hydr. Depth (ft)	5.66	29.77	6.33
Conv. Total (cfs)	2425268.0	Conv. (cfs)	253846.4	1695750.0	475671.7
Length Wtd. (ft)	526.14	Wetted Per. (ft)	1902.91	189.20	3530.00
Min Ch El (ft)	-1.47	Shear (lb/sq ft)	0.02	0.08	0.02
Alpha	17.08	Stream Power (lb/ft s)	0.00	0.17	0.00
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	10134.05	6636.62	15714.75
C & E Loss (ft)	0.00	Cum SA (acres)	590.16	162.72	484.99

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 8.43

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	33.49	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.05	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	33.43	Reach Len. (ft)	2600.00	4170.00	4600.00
Crit W.S. (ft)		Flow Area (sq ft)	8484.31	5298.57	20865.31
E.G. Slope (ft/ft)	0.000052	Area (sq ft)	8484.31	5298.57	20865.31
Q Total (cfs)	16359.00	Flow (cfs)	1495.07	11733.23	3130.70
Top Width (ft)	5661.33	Top Width (ft)	1889.68	182.00	3589.65
Vel Total (ft/s)	0.47	Avg. Vel. (ft/s)	0.18	2.21	0.15
Max Chl Dpth (ft)	35.09	Hydr. Depth (ft)	4.49	29.11	5.81
Conv. Total (cfs)	2258168.0	Conv. (cfs)	206376.8	1619635.0	432155.9
Length Wtd. (ft)	4005.25	Wetted Per. (ft)	1892.02	188.12	3590.87
Min Ch El (ft)	-1.66	Shear (lb/sq ft)	0.01	0.09	0.02
Alpha	15.81	Stream Power (lb/ft s)	0.00	0.20	0.00
Frctn Loss (ft)	0.23	Cum Volume (acre-ft)	12197.09	6382.06	27485.13
C & E Loss (ft)	0.00	Cum SA (acres)	1161.09	160.15	1229.55

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	34.30	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.06	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.24	Reach Len. (ft)	2600.00	4170.00	4600.00
Crit W.S. (ft)		Flow Area (sq ft)	6781.93	5445.55	12638.86
E.G. Slope (ft/ft)	0.000053	Area (sq ft)	6781.93	5445.55	12638.86
Q Total (cfs)	16359.00	Flow (cfs)	1495.77	12366.08	2497.16
Top Width (ft)	2099.00	Top Width (ft)	671.00	182.00	1246.00
Vel Total (ft/s)	0.66	Avg. Vel. (ft/s)	0.22	2.27	0.20
Max Chl Dpth (ft)	35.90	Hydr. Depth (ft)	10.11	29.92	10.14
Conv. Total (cfs)	2242574.0	Conv. (cfs)	205047.4	1695204.0	342322.6
Length Wtd. (ft)	3956.71	Wetted Per. (ft)	676.97	188.12	1254.70
Min Ch El (ft)	-1.66	Shear (lb/sq ft)	0.03	0.10	0.03

Alpha	9.03	Stream Power (lb/ft s)	0.01	0.22	0.01
Frctn Loss (ft)	0.24	Cum Volume (acre-ft)	10060.12	6564.73	15548.51
C & E Loss (ft)	0.00	Cum SA (acres)	579.31	160.31	462.30

CROSS SECTION

RIVER: Santa Fe
REACH: Main RS: 7.64

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	33.26	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.05	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	33.21	Reach Len. (ft)	4950.00	6230.00	4900.00
Crit W.S. (ft)		Flow Area (sq ft)	16321.64	4598.54	14547.93
E.G. Slope (ft/ft)	0.000062	Area (sq ft)	16321.64	4598.54	14547.93
Q Total (cfs)	16359.00	Flow (cfs)	3520.30	10192.81	2645.89
Top Width (ft)	5128.03	Top Width (ft)	2729.72	182.00	2216.31
Vel Total (ft/s)	0.46	Avg. Vel. (ft/s)	0.22	2.22	0.18
Max Chl Dpth (ft)	31.12	Hydr. Depth (ft)	5.98	25.27	6.56
Conv. Total (cfs)	2077773.0	Conv. (cfs)	447117.0	1294599.0	336056.9
Length Wtd. (ft)	5746.36	Wetted Per. (ft)	2730.24	184.72	2217.02
Min Ch El (ft)	2.09	Shear (lb/sq ft)	0.02	0.10	0.03
Alpha	14.46	Stream Power (lb/ft s)	0.00	0.21	0.00
Frctn Loss (ft)	0.28	Cum Volume (acre-ft)	11456.79	5908.33	25615.28
C & E Loss (ft)	0.00	Cum SA (acres)	1023.23	142.73	922.99

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	34.06	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.06	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.00	Reach Len. (ft)	4950.00	6230.00	4900.00
Crit W.S. (ft)		Flow Area (sq ft)	14785.26	4741.86	4221.77
E.G. Slope (ft/ft)	0.000070	Area (sq ft)	14785.26	4741.86	4221.77
Q Total (cfs)	16359.00	Flow (cfs)	3915.15	11413.82	1030.02
Top Width (ft)	1694.00	Top Width (ft)	1175.00	182.00	337.00
Vel Total (ft/s)	0.69	Avg. Vel. (ft/s)	0.26	2.41	0.24
Max Chl Dpth (ft)	31.91	Hydr. Depth (ft)	12.58	26.05	12.53
Conv. Total (cfs)	1952880.0	Conv. (cfs)	467377.1	1362543.0	122960.6
Length Wtd. (ft)	5821.56	Wetted Per. (ft)	1179.31	184.72	349.29
Min Ch El (ft)	2.09	Shear (lb/sq ft)	0.05	0.11	0.05
Alpha	8.56	Stream Power (lb/ft s)	0.01	0.27	0.01
Frctn Loss (ft)	0.30	Cum Volume (acre-ft)	9416.47	6077.10	14658.26
C & E Loss (ft)	0.01	Cum SA (acres)	524.22	142.89	378.71

POST-DEVELOPMENT

HEC-RAS HEC-RAS 6.3.1 September 2022
U.S. Army Corps of Engineers
Hydrologic Engineering Center
609 Second Street
Davis, California

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X      X  XXXXXX      XXXX      XXXX      XX      XXXX
X      X  X          X      X      X      X      X
X      X  X          X          X      X      X
XXXXXXXX XXXX      X          XXX XXXX      XXXXXX      XXXX
X      X  X          X          X      X      X      X
X      X  X          X      X      X      X      X
X      X  XXXXXX      XXXX      X      X      X      XXXXX
```

PROJECT DATA

Project Title: POST

Project File : POST.prj

Run Date and Time: 3/29/2023 7:19:18 PM

Project in English units

Project Description:

Upper Suwannee River Floodplain Model 10, 50, 100, 500

Taylor

Engineering

Adapted from HEC-2 Provided by SRWMD

Model was truncated to only include: Dixie, Gilchrist and Lafayette Counties.
Converted to HEC-RAS 3.1.3, with some updates to structures and adjacent cross
sections August 2005 by Dewberry and Davis LLC - Atlanta Office

The floodway did not require any adjustments to width following updated survey data.
Floodway stations were moved to account for new stationing on some sections.

PLAN DATA

Plan Title: Floodway Run

Plan File : C:\Users\TravisCovington\Documents\PROJECTS\No Rise\FL00010 -
MERSHON\DWGS\HEC-RAS\POST DEVELOPMENT\POST.p02

Geometry Title: Updated 2005

Geometry File : C:\Users\TravisCovington\Documents\PROJECTS\No
Rise\FL00010 - MERSHON\DWGS\HEC-RAS\POST DEVELOPMENT\POST.g01

Flow Title : Floodway

Flow File : C:\Users\TravisCovington\Documents\PROJECTS\No
Rise\FL00010 - MERSHON\DWGS\HEC-RAS\POST DEVELOPMENT\POST.f02

Plan Summary Information:

Number of:	Cross Sections =	298	Multiple Openings =	0
	Culverts =	0	Inline Structures =	0
	Bridges =	27	Lateral Structures =	0

Computational Information

Water surface calculation tolerance = 0.003
Critical depth calculation tolerance = 0.003
Maximum number of iterations = 20
Maximum difference tolerance = 0.1
Flow tolerance factor = 0.001

Computation Options

Critical depth computed only where necessary
Conveyance Calculation Method: Between every coordinate point (HEC2 Style)
Friction Slope Method: Average Conveyance
Computational Flow Regime: Subcritical Flow

Encroachment Data

Equal Conveyance = True
Left Offset = 0
Right Offset = 0

River = Santa Fe		Reach = Main		
RS	Profile	Method	Value1	Value2
79.85	FW	1	11748	13914
79.1	FW	1	11751	14501
78.16	FW	1	11175	14425
76.67	FW	1	11077	12902
75.55	FW	1	13117	13450
75.15	FW	1	13519	13841
75	FW	1	13519	13691
74.98	FW	1	13730	13798
74.97	FW	1	13730	13798
74.92	FW	1	12760	13058
74.35	FW	1	13535	13911
74.3	FW	1	13778	14066
74.28	FW	1	12900	13101
74.27	FW	1	12900	13101
74.23	FW	1	13778	14066
74.04	FW	1	13578	14216
73.94	FW	1	13528	14446
73.36	FW	1	11527	13077
73.32	FW	1	11906.2	13864.7
73.31	FW	1	11092.3	11363
73.3	FW	1	10888.7	12618.1
73.27	FW	1	10888.7	12618.1
72.59	FW	1	10388	11224
71.46	FW	1	11917	12761
70.18	FW	1	10513.9	11110.1
69.45	FW	1	10622.3	10950.5
69.38	FW	1	11550	11652
69.37	FW	1	11550	11652
69.22	FW	1	10831	11293
68.72	FW	1	10736	11214
67.83	FW	1	11957.3	12768.6
67.11	FW	1	10562	11152
65.99	FW	1	10799	11834.2
65.97	FW	1	10996.4	11617
65.96	FW	1	11085.6	11617
65.89	FW	1	10903.2	11798.1
65.86	FW	1	10910.1	11796.1
64.57	FW	1	10976.2	11472.7
63.6	FW	1	10143	11830

62.24	FW	1	10171	12971
61.02	FW	1	10591	13058
59.68	FW	1	11827.6	12959.4
59.66	FW	1	10865	11065
59.65	FW	1	10865	11065
59.57	FW	1	11834.8	12950.8
59.26	FW	1	11560	12380
58.81	FW	1	11510	12035
58.79	FW	1	10315	10479
58.78	FW	1	10315	10476
58.7	FW	1	11510	12335
58.15	FW	1	11398	12448
57.21	FW	1	10927	11727
56.22	FW	1	11067	11967
55.99	FW	1	11067	11967
55.96	FW	1	12460	13610
55.95	FW	1	12460	13610
55.83	FW	1	10813	12613
54.27	FW	1	11100	12385
53.44	FW	1	10333	11733
51.87	FW	1	11150	13550
49.61	FW	1	12785	14322
49.48	FW	1	13817	15609
49.46	FW	1	13901	15349
49.45	FW	1	13901	15349
49.38	FW	1	13817	15609
49.31	FW	1	13817	15609
49.29	FW	1	14693	16393
49.28	FW	1	14693	16393
49.19	FW	1	14839.3	16588.4
48.04	FW	1	16259	17693.5
46.59	FW	1	12394.1	14173.5
45.48	FW	1	10484.9	12085.4
44.02	FW	1	11805	13551
42.54	FW	1	10083	14281
41.67	FW	1	11164	14130
41.63	FW	1	11164	14130
41.62	FW	1	11321	14621
41.61	FW	1	11321	14621
41.56	FW	1	10640	14637
40.91	FW	1	10572	12069
39.81	FW	1	11200	12953
39.02	FW	1	10108	10730
37.98	FW	1	10982	13472
37.25	FW	1	10533	13666
37.19	FW	1	10533	13666
37.17	FW	1	10550	13865
37.16	FW	1	10550	13865
37.07	FW	1	10406	13994
35.58	FW	1	10782	16371
35.57	FW	1	10782	16371
33.85	FW	1	10981	15203
33.09	FW	1	11012	13334
32.18	FW	1	11413	13528
30.42	FW	1	10675	17380
28.94	FW	1	10136	14876
27.82	FW	1	10997	13555
27.79	FW	1	10997	13555
27.77	FW	1	10897	13384
27.76	FW	1	10897	13384

27.68	FW	1	10373	12821
26.52	FW	1	9800	12900
25.19	FW	1	11176	11726
24.54	FW	1	10906	11301
24.52	FW	1	10906	11301
24.51	FW	1	11125	11595
24.5	FW	1	11125	11595
24.49	FW	1	10906	11301
24.48	FW	1	11678	12222
24.47	FW	1	11678	12222
24.44	FW	1	10942	11309
24.15	FW	1	10471	11010
23.82	FW	1	10508	10999
23.14	FW	1	10720	11461
22.24	FW	1	10634	11158
21.59	FW	1	12184	12725
20.44	FW	1	10537	11905
19.62	FW	1	10940	12164
18.49	FW	1	10716	12303
17.78	FW	1	11513	13128
17.28	FW	1	10213	11698
16.53	FW	1	11939	13607
15.75	FW	1	13828	15755
15.72	FW	1	13974.5	15901.5
15.7	FW		113800.25	15570.25
15.66	FW	1	14195	15938
15.08	FW	1	10868	12511
14.08	FW	1	11417	13300
13.03	FW	1	12170	14002
11.3	FW	1	11380	12995
10.06	FW	1	10391	11608
8.43	FW	1	12043	14142
7.64	FW	1	11909	13603
6.46	FW	1	13592	15193
4.73	FW	1	10932	12384
3.6	FW	1	10109	11719
2.88	FW	1	10951	12711
2.5	FW	1	11586	13299
2.46	FW	1	10705	12409
2.42	FW		110471.66	12121.66
2.39	FW	1	11054	12568
1.61	FW	1	10219	11589

River = Suwannee		Reach = BelowSF		
RS	Profile	Method	Value1	Value2
65.66	FW	1	15173	22192
63.87	FW	1	11283	15888
63.27	FW	1	10872	17455
62.67	FW	1	11369	18740
62.24	FW	1	10539	19904
61.75	FW	1	12213	20931
60.91	FW	1	11324	14718
60.38	FW	1	17809	20000
60.36	FW	1	12890.6	18955
59.56	FW	1	6939	12872.9
58.2	FW	1	5751.7	11047.7
57.9	FW	1	5884	10229.29
56.9	FW	1	5905.26	11503.76
56.53	FW	1	6198	13198.31
55.31	FW	1	4711	9204

53.94	FW	1	6305	13000
52.03	FW	1	5241.112967	.96
50.53	FW	1	5680.411585	.24
47.35	FW	1	8627.6413422	.92
44.31	FW	1	18404	22661
41.97	FW		121589.5425774	.01
39.76	FW	1	22097.4	27175.2
38.9	FW		123038.4931829	.46
37.9	FW	1	24332.7	29319.7
37.38	FW	1	20952	25199
36.1	FW	1	19720	25555
35.9	FW	1	4257.55	6720.55
34.9	FW	1	4287.23	6700.43
34.21	FW	1	3944	10020
33.48	FW	1	6978	10150
32.32	FW	1	8245	11166
30.46	FW	1	13104	16201
28.07	FW	1	13760	18448
26.54	FW		119165.41	22696.1
24.83	FW	1	11938	15621
23.47	FW	1	6630	10578
21.49	FW	1	17326	22173
19.92	FW	1	19869	26472
17.65	FW	1	23194	31001
15.4	FW	1	24298	31389
13.11	FW	1	26701	41400
9.81	FW	1	31912	47714
7.49	FW	1	39512	53434
5.83	FW	1	53257	71534
3.15	FW	1	49704	72725

River = Suwannee		Reach = WtoSF		
RS	Profile	Method	Value1	Value2
127.51	FW	1	11175	16586
127.49	FW	1	11175	16586
127.47	FW	1	10661	16102
127.46	FW	1	10661	16102
127.44	FW	1	10900	16327
127.38	FW	1	10900	16327
127.35	FW	1	10900	16327
127.33	FW	1	11000	16840
127.32	FW	1	11000	16840
127.3	FW	1	11950	17780
127.24	FW	1	11950	17780
126.58	FW	1	11200	15729
125.56	FW	1	12475	17810
124.93	FW	1	12567	18886
124.88	FW	1	12567	18886
124.86	FW	1	12478	19170
124.85	FW	1	12478	19170
124.83	FW	1	12134	18877
124.78	FW	1	12134	18877
124.42	FW	1	12338	20334
122.45	FW	1	16777	21388
121.63	FW	1	19677	24546
120.87	FW		113195.4219331	.25
119.69	FW		111740.1118355	.39
118.66	FW		113289.1318112	.82
117.17	FW		114644.9219079	.15
116.26	FW		112012.2316988	.05

114.94	FW	1	14480	17107
114.37	FW	1	14720	17255
113.29	FW	1	11877	15570
112.92	FW	1	11126	14179
112.91	FW	1	13430	16483
112.88	FW	1	13457	16458
112.86	FW	1	13511	16512
112.83	FW	1	14273	17320
112.8	FW	1	14273	17320
112.77	FW	1	14154	17096
112.72	FW	1	13615	16557
112.46	FW	1	13568	15834
112.17	FW	1	13303	15450
111.18	FW	1	13342163	16.48
110.69	FW	1	11466	14165
109.87	FW	1	12956	16119
109.22	FW	1	14193	17538
108.57	FW	114546.87	17280.01	
107.88	FW	1	13828	16417
107.34	FW	1	14064	17627
106.69	FW	113529.31	17864.05	
105.88	FW	113743.39	17683.6	
105.36	FW	115834.33	19297	
104.59	FW	113718.18	17202.81	
104.03	FW	1	13700	17268
103.3	FW	1	14318	18210
102.89	FW	1	17687	21090
101.82	FW	1	15517	19825
101.48	FW	1	14893.8	19782.6
100.51	FW	114272.99	17799.21	
100.23	FW	1	14900	18661
99.18	FW	1	14714	20826
98.23	FW	1	14076	20826
98.19	FW	1	13909	20693
98.169	FW	1	13908.7	20514.7
98.12	FW	1	14112	20718
97.37	FW	1	12000	18100
96.6	FW	1	12300	17600
95.91	FW	113228.88	17520.16	
95.541	FW	1	14053	19214
95.54	FW	1	13953	19212
93.85	FW	1	17046	19061
92.89	FW	1	15110	17179
92.2	FW	1	15200	17150
91.48	FW	1	11968	14288
90.11	FW	1	13792.51	16627.67
89.24	FW	1	17057	21161
88.24	FW	1	17816	20540
87.45	FW	1	20732	23657
86.73	FW	1	20546	23972
85.95	FW	1	18864	23034
85.7	FW	1	20999	25109
84.85	FW	1	15027	18561
84.2	FW	1	17588	21670
83.08	FW	1	16417	20776
82.16	FW	1	16586	22193
81.59	FW	1	18793	23013
81.32	FW	1	19185	23588
80.2	FW	1	12000	17554
79.52	FW	1	16035	20721

79.01	FW	1	13500	18053
78.5	FW	1	13000	17960
77.99	FW	111898.0814888.81		
77.49	FW	1	11600	15174
77.06	FW	1	11548	13937
76.77	FW	1	11541	15594
76.51	FW	1	11012	14595
76.15	FW	1	1101216048.84	
76.12	FW	1	1133416370.17	
76.1	FW	111634.9515127.66		
76.06	FW	1	10968	14640
75.84	FW	1	1073115237.19	
75.58	FW	1	15156	19780
75.07	FW	114978.0619456.14		
74.71	FW	113342.8417107.24		
74.27	FW	1	13902	17310
73.55	FW	1	12687	17648
73.09	FW	1	15083	20157
72.77	FW	1	16325	20594
71.96	FW	1	15588	21664
70.98	FW	1	15366	21709
69.16	FW	1	11039	18223
68.53	FW	1	13250	18969
66.47	FW	1	17087	24124

FLOW DATA

Flow Title: Floodway

Flow File : C:\Users\TravisCovington\Documents\PROJECTS\No Rise\FL00010 -
MERSHON\DWGS\HEC-RAS\POST DEVELOPMENT\POST.f02

Flow Data (cfs)

River	Reach	RS	100 Year	FW
Santa Fe	Main	79.85	374	374
Santa Fe	Main	73.36	2965	2965
Santa Fe	Main	67.11	4665	4665
Santa Fe	Main	57.21	8767	8767
Santa Fe	Main	49.61	25162	25162
Santa Fe	Main	44.02	23767	23767
Santa Fe	Main	39.81	32800	32800
Santa Fe	Main	37.25	32569	32569
Santa Fe	Main	33.85	24427	24427
Santa Fe	Main	28.94	23206	23206
Santa Fe	Main	27.79	20910	20910
Santa Fe	Main	25.19	19587	19587
Santa Fe	Main	19.62	16717	16717
Santa Fe	Main	15.66	16359	16359
Suwannee	WtoSF	127.51	76500	76500
Suwannee	WtoSF	124.93	71400	71400
Suwannee	WtoSF	112.92	69500	69500
Suwannee	WtoSF	106.69	67800	67800
Suwannee	WtoSF	101.82	66300	66300
Suwannee	WtoSF	98.23	64900	64900
Suwannee	WtoSF	91.48	63900	63900
Suwannee	WtoSF	86.73	63250	63250
Suwannee	WtoSF	82.16	62950	62950

Suwannee	WtoSF	76.12	62100	62100
Suwannee	WtoSF	70.98	62100	62100
Suwannee	BelowSF	65.66	67300	67300

Boundary Conditions

River	Reach	Profile	Upstream
Downstream			
Suwannee	BelowSF	100 Year	
Known WS = 1.87			
Suwannee	BelowSF	FW	
Known WS = 1.87			

Observed Water Surface Marks

River	Reach	RS	100 Year	FW
RIVER-1	Reach-1	97	58	
RIVER-1	Reach-1	96	58	
RIVER-1	Reach-1	95	57	
RIVER-1	Reach-1	94	56.9	
RIVER-1	Reach-1	93	56.9	
RIVER-1	Reach-1	92	56.9	
RIVER-1	Reach-1	91	56.8	
RIVER-1	Reach-1	90	56.8	
RIVER-1	Reach-1	89	56.8	
RIVER-1	Reach-1	88	56.8	
RIVER-1	Reach-1	87	56.7	
RIVER-1	Reach-1	86	56.6	
RIVER-1	Reach-1	85	56.5	
RIVER-1	Reach-1	84	56.3	
RIVER-1	Reach-1	83	56	
RIVER-1	Reach-1	82	55.8	
RIVER-1	Reach-1	81	55.2	
RIVER-1	Reach-1	80	55	
RIVER-1	Reach-1	79	54.7	
RIVER-1	Reach-1	78	54.2	
RIVER-1	Reach-1	77	54	
RIVER-1	Reach-1	76	53.8	
RIVER-1	Reach-1	75	53.3	
RIVER-1	Reach-1	74	53	
RIVER-1	Reach-1	73	52.9	
RIVER-1	Reach-1	72	52.5	
RIVER-1	Reach-1	71	52.1	
RIVER-1	Reach-1	70	52	
RIVER-1	Reach-1	69	51.5	
RIVER-1	Reach-1	68	51.2	
RIVER-1	Reach-1	67	51	
RIVER-1	Reach-1	66	51	
RIVER-1	Reach-1	65	50.8	
RIVER-1	Reach-1	64	50.2	
RIVER-1	Reach-1	63	49.9	
RIVER-1	Reach-1	62	49.8	
RIVER-1	Reach-1	61	49.6	
RIVER-1	Reach-1	60	49.6	
RIVER-1	Reach-1	59	49.5	
RIVER-1	Reach-1	58	48.8	
RIVER-1	Reach-1	57	47.8	

RIVER-1	Reach-1	56	47.2
RIVER-1	Reach-1	55	47.1
RIVER-1	Reach-1	54	47.1
RIVER-1	Reach-1	53	46.2
RIVER-1	Reach-1	52	45.8
RIVER-1	Reach-1	51	45.3
RIVER-1	Reach-1	50	45
RIVER-1	Reach-1	49	44.2
RIVER-1	Reach-1	48	43.8
RIVER-1	Reach-1	47	43
RIVER-1	Reach-1	46	42.2
RIVER-1	Reach-1	45	42
RIVER-1	Reach-1	44	41.5
RIVER-1	Reach-1	43	41.2
RIVER-1	Reach-1	42	40.8
RIVER-1	Reach-1	41	40.1
RIVER-1	Reach-1	40	39.5
RIVER-1	Reach-1	39	38.9
RIVER-1	Reach-1	38	38.5
RIVER-1	Reach-1	37	38.2
RIVER-1	Reach-1	36	37.8
RIVER-1	Reach-1	35	37.3
RIVER-1	Reach-1	34	37
RIVER-1	Reach-1	33	36.8
RIVER-1	Reach-1	32	36.5
RIVER-1	Reach-1	31	36.2
RIVER-1	Reach-1	30	36
RIVER-1	Reach-1	29	36
RIVER-1	Reach-1	28	35.9
RIVER-1	Reach-1	27	35.7
RIVER-1	Reach-1	26	35.6
RIVER-1	Reach-1	25	35.2
RIVER-1	Reach-1	24	35.1
RIVER-1	Reach-1	23	35.1
RIVER-1	Reach-1	22	35
RIVER-1	Reach-1	21	35
RIVER-1	Reach-1	20	35
RIVER-1	Reach-1	19	34.9
RIVER-1	Reach-1	18	34.8
RIVER-1	Reach-1	17	34.6
RIVER-1	Reach-1	16	34.2
RIVER-1	Reach-1	15	34
RIVER-1	Reach-1	14	33.9
RIVER-1	Reach-1	13	33.4
Upper Suwannee	Upper	112.932	58
Upper Suwannee	Upper	112.922	58
Upper Suwannee	Upper	112.912	57
Upper Suwannee	Upper	112.902	56.9
Upper Suwannee	Upper	112.892	56.9
Upper Suwannee	Upper	112.872	56.9
Upper Suwannee	Upper	112.842	56.8
Upper Suwannee	Upper	112.812	56.8
Upper Suwannee	Upper	112.802	56.8
Upper Suwannee	Upper	112.792	56.8
Upper Suwannee	Upper	112.782	56.7
Upper Suwannee	Upper	112.732	56.6
Upper Suwannee	Upper	112.472	56.5
Upper Suwannee	Upper	112.182	56.3
Upper Suwannee	Upper	111.192	56
Upper Suwannee	Upper	110.702	55.8

Upper Suwannee	Upper	109.882	55.2
Upper Suwannee	Upper	109.232	55
Upper Suwannee	Upper	108.582	54.7
Upper Suwannee	Upper	107.892	54.2
Upper Suwannee	Upper	107.352	54
Upper Suwannee	Upper	106.702	53.8
Upper Suwannee	Upper	105.892	53.3
Upper Suwannee	Upper	105.372	53
Upper Suwannee	Upper	104.602	52.9
Upper Suwannee	Upper	104.042	52.5
Upper Suwannee	Upper	103.312	52.1
Upper Suwannee	Upper	102.902	52
Upper Suwannee	Upper	101.832	51.5
Upper Suwannee	Upper	101.492	51.2
Upper Suwannee	Upper	100.521	51
Upper Suwannee	Upper	100.242	51
Upper Suwannee	Upper	99.192	50.8
Upper Suwannee	Upper	98.242	50.2
Upper Suwannee	Upper	98.202	49.9
Upper Suwannee	Upper	98.192	49.8
Upper Suwannee	Upper	98.186	49.6
Upper Suwannee	Upper	98.182	49.6
Upper Suwannee	Upper	98.132	49.5
Upper Suwannee	Upper	97.382	48.8
Upper Suwannee	Upper	96.611	47.8
Upper Suwannee	Upper	95.921	47.2
Upper Suwannee	Upper	95.551	47.1
Upper Suwannee	Upper	95.549	47.1
Upper Suwannee	Upper	93.860	46.2
Upper Suwannee	Upper	92.900	45.8
Upper Suwannee	Upper	92.210	45.3
Upper Suwannee	Upper	91.490	45
Upper Suwannee	Upper	90.120	44.2
Upper Suwannee	Upper	89.250	43.8
Upper Suwannee	Upper	88.250	43
Upper Suwannee	Upper	87.460	42.2
Upper Suwannee	Upper	86.740	42
Upper Suwannee	Upper	85.960	41.5
Upper Suwannee	Upper	85.710	41.2
Upper Suwannee	Upper	84.860	40.8
Upper Suwannee	Upper	84.210	40.1
Upper Suwannee	Upper	83.090	39.5
Upper Suwannee	Upper	82.170	38.9
Upper Suwannee	Upper	81.600	38.5
Upper Suwannee	Upper	81.330	38.2
Upper Suwannee	Upper	80.212	37.8
Upper Suwannee	Upper	79.532	37.3
Upper Suwannee	Upper	79.022	37
Upper Suwannee	Upper	78.512	36.8
Upper Suwannee	Upper	78.002	36.5
Upper Suwannee	Upper	77.502	36.2
Upper Suwannee	Upper	77.072	36
Upper Suwannee	Upper	76.782	36
Upper Suwannee	Upper	76.522	35.9
Upper Suwannee	Upper	76.162	35.7
Upper Suwannee	Upper	76.132	35.6
Upper Suwannee	Upper	76.122	35.2
Upper Suwannee	Upper	76.117	35.1
Upper Suwannee	Upper	76.112	35.1
Upper Suwannee	Upper	76.072	35

Upper Suwannee	Upper	75.852	35
Upper Suwannee	Upper	75.592	35
Upper Suwannee	Upper	75.082	34.9
Upper Suwannee	Upper	74.722	34.8
Upper Suwannee	Upper	74.282	34.6
Upper Suwannee	Upper	73.562	34.2
Upper Suwannee	Upper	73.102	34
Upper Suwannee	Upper	72.782	33.9
Upper Suwannee	Upper	71.972	33.4
Suwannee	UpstreamEnd	112.932	58
Suwannee	UpstreamEnd	112.922	58
Suwannee	UpstreamEnd	112.912	57
Suwannee	UpstreamEnd	112.902	56.9
Suwannee	UpstreamEnd	112.892	56.9
Suwannee	UpstreamEnd	112.872	56.9
Suwannee	UpstreamEnd	112.842	56.8
Suwannee	UpstreamEnd	112.812	56.8
Suwannee	UpstreamEnd	112.802	56.8
Suwannee	UpstreamEnd	112.792	56.8
Suwannee	UpstreamEnd	112.782	56.7
Suwannee	UpstreamEnd	112.732	56.6
Suwannee	UpstreamEnd	112.472	56.5
Suwannee	UpstreamEnd	112.182	56.3
Suwannee	UpstreamEnd	111.192	56
Suwannee	UpstreamEnd	110.702	55.8
Suwannee	UpstreamEnd	109.882	55.2
Suwannee	UpstreamEnd	109.232	55
Suwannee	UpstreamEnd	108.582	54.7
Suwannee	UpstreamEnd	107.892	54.2
Suwannee	UpstreamEnd	107.352	54
Suwannee	UpstreamEnd	106.702	53.8
Suwannee	UpstreamEnd	105.892	53.3
Suwannee	UpstreamEnd	105.372	53
Suwannee	UpstreamEnd	104.602	52.9
Suwannee	UpstreamEnd	104.042	52.5
Suwannee	UpstreamEnd	103.312	52.1
Suwannee	UpstreamEnd	102.902	52
Suwannee	UpstreamEnd	101.832	51.5
Suwannee	UpstreamEnd	101.492	51.2
Suwannee	UpstreamEnd	100.521	51
Suwannee	UpstreamEnd	100.242	51
Suwannee	UpstreamEnd	99.192	50.8
Suwannee	UpstreamEnd	98.242	50.2
Suwannee	UpstreamEnd	98.202	49.9
Suwannee	UpstreamEnd	98.192	49.8
Suwannee	UpstreamEnd	98.186	49.6
Suwannee	UpstreamEnd	98.182	49.6
Suwannee	UpstreamEnd	98.132	49.5
Suwannee	UpstreamEnd	97.382	48.8
Suwannee	UpstreamEnd	96.611	47.8
Suwannee	UpstreamEnd	95.921	47.2
Suwannee	UpstreamEnd	95.551	47.1
Suwannee	UpstreamEnd	95.549	47.1
Suwannee	UpstreamEnd	93.860	46.2
Suwannee	UpstreamEnd	92.900	45.8
Suwannee	UpstreamEnd	92.210	45.3
Suwannee	UpstreamEnd	91.490	45
Suwannee	UpstreamEnd	90.120	44.2
Suwannee	UpstreamEnd	89.250	43.8
Suwannee	UpstreamEnd	88.250	43

Suwannee	UpstreamEnd	87.460	42.2
Suwannee	UpstreamEnd	86.740	42
Suwannee	UpstreamEnd	85.960	41.5
Suwannee	UpstreamEnd	85.710	41.2
Suwannee	UpstreamEnd	84.860	40.8
Suwannee	UpstreamEnd	84.210	40.1
Suwannee	UpstreamEnd	83.090	39.5
Suwannee	UpstreamEnd	82.170	38.9
Suwannee	UpstreamEnd	81.600	38.5
Suwannee	UpstreamEnd	81.330	38.2
Suwannee	UpstreamEnd	80.212	37.8
Suwannee	UpstreamEnd	79.532	37.3
Suwannee	UpstreamEnd	79.022	37
Suwannee	UpstreamEnd	78.512	36.8
Suwannee	UpstreamEnd	78.002	36.5
Suwannee	UpstreamEnd	77.502	36.2
Suwannee	UpstreamEnd	77.072	36
Suwannee	UpstreamEnd	76.782	36
Suwannee	UpstreamEnd	76.522	35.9
Suwannee	UpstreamEnd	76.162	35.7
Suwannee	UpstreamEnd	76.132	35.6
Suwannee	UpstreamEnd	76.122	35.2
Suwannee	UpstreamEnd	76.117	35.1
Suwannee	UpstreamEnd	76.112	35.1
Suwannee	UpstreamEnd	76.072	35
Suwannee	UpstreamEnd	75.852	35
Suwannee	UpstreamEnd	75.592	35
Suwannee	UpstreamEnd	75.082	34.9
Suwannee	UpstreamEnd	74.722	34.8
Suwannee	UpstreamEnd	74.282	34.6
Suwannee	UpstreamEnd	73.562	34.2
Suwannee	UpstreamEnd	73.102	34
Suwannee	UpstreamEnd	72.782	33.9
Suwannee	UpstreamEnd	71.972	33.4

GEOMETRY DATA

Geometry Title: Updated 2005
Geometry File : C:\Users\TravisCovington\Documents\PROJECTS\No Rise\FL00010 -
MERSHON\DWGS\HEC-RAS\POST DEVELOPMENT\POST.g01

Reach Connection Table

River	Reach	Upstream Boundary	Downstream Boundary
Santa Fe	Main		Santa Fe
Suwannee	WtoSF		Santa Fe
Suwannee	BelowSF	Santa Fe	

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 11.3

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	34.27	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.03	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.24	Reach Len. (ft)	5900.00	6550.00	4400.00
Crit W.S. (ft)		Flow Area (sq ft)	12438.99	6798.45	13576.06
E.G. Slope (ft/ft)	0.000035	Area (sq ft)	12438.99	6798.45	13576.06
Q Total (cfs)	16359.00	Flow (cfs)	2028.41	11559.76	2770.83
Top Width (ft)	2492.46	Top Width (ft)	1363.00	265.00	864.46
Vel Total (ft/s)	0.50	Avg. Vel. (ft/s)	0.16	1.70	0.20
Max Chl Dpth (ft)	27.90	Hydr. Depth (ft)	9.13	25.65	15.70
Conv. Total (cfs)	2758738.0	Conv. (cfs)	342065.3	1949407.0	467265.8
Length Wtd. (ft)	6223.31	Wetted Per. (ft)	1363.50	265.67	866.05
Min Ch El (ft)	6.34	Shear (lb/sq ft)	0.02	0.06	0.03
Alpha	8.26	Stream Power (lb/ft s)	0.00	0.10	0.01
Frctn Loss (ft)	0.30	Cum Volume (acre-ft)	14876.25	8361.35	30324.11
C & E Loss (ft)	0.00	Cum SA (acres)	1484.64	233.34	1710.65

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	35.03	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.03	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	35.00	Reach Len. (ft)	5900.00	6550.00	4400.00
Crit W.S. (ft)		Flow Area (sq ft)	9665.31	6999.31	11624.22
E.G. Slope (ft/ft)	0.000035	Area (sq ft)	9665.31	6999.31	11624.22
Q Total (cfs)	16359.00	Flow (cfs)	1787.62	12113.43	2457.95
Top Width (ft)	1615.00	Top Width (ft)	700.00	265.00	650.00
Vel Total (ft/s)	0.58	Avg. Vel. (ft/s)	0.18	1.73	0.21
Max Chl Dpth (ft)	28.66	Hydr. Depth (ft)	13.81	26.41	17.88
Conv. Total (cfs)	2763554.0	Conv. (cfs)	301986.1	2046342.0	415225.8
Length Wtd. (ft)	6268.31	Wetted Per. (ft)	712.94	265.67	669.33
Min Ch El (ft)	6.34	Shear (lb/sq ft)	0.03	0.06	0.04
Alpha	6.66	Stream Power (lb/ft s)	0.01	0.10	0.01
Frctn Loss (ft)	0.29	Cum Volume (acre-ft)	12575.24	8600.92	18087.55
C & E Loss (ft)	0.00	Cum SA (acres)	823.11	233.50	798.86

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 10.06

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	33.97	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.07	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	33.90	Reach Len. (ft)	5132.65	8025.60	5785.90
Crit W.S. (ft)		Flow Area (sq ft)	9627.01	5434.53	6141.84
E.G. Slope (ft/ft)	0.000068	Area (sq ft)	9627.01	5434.53	6141.84

Q Total (cfs)	16359.00	Flow (cfs)	2537.58	13001.14	820.28
Top Width (ft)	2552.33	Top Width (ft)	849.14	203.00	1500.19
Vel Total (ft/s)	0.77	Avg. Vel. (ft/s)	0.26	2.39	0.13
Max Chl Dpth (ft)	32.75	Hydr. Depth (ft)	11.34	26.77	4.09
Conv. Total (cfs)	1986202.0	Conv. (cfs)	308096.4	1578513.0	99592.5
Length Wtd. (ft)	7414.70	Wetted Per. (ft)	850.65	208.31	1501.39
Min Ch El (ft)	1.15	Shear (lb/sq ft)	0.05	0.11	0.02
Alpha	7.66	Stream Power (lb/ft s)	0.01	0.26	0.00
Frctn Loss (ft)	0.45	Cum Volume (acre-ft)	13381.88	7441.63	29328.25
C & E Loss (ft)	0.00	Cum SA (acres)	1334.83	198.15	1591.22

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	34.74	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.07	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.67	Reach Len. (ft)	5132.65	8025.60	5785.90
Crit W.S. (ft)		Flow Area (sq ft)	9107.91	5589.79	3026.96
E.G. Slope (ft/ft)	0.000065	Area (sq ft)	9107.91	5589.79	3026.96
Q Total (cfs)	16359.00	Flow (cfs)	2550.86	13291.08	517.06
Top Width (ft)	1217.00	Top Width (ft)	581.00	203.00	433.00
Vel Total (ft/s)	0.92	Avg. Vel. (ft/s)	0.28	2.38	0.17
Max Chl Dpth (ft)	33.52	Hydr. Depth (ft)	15.68	27.54	6.99
Conv. Total (cfs)	2036259.0	Conv. (cfs)	317514.2	1654385.0	64360.1
Length Wtd. (ft)	7401.56	Wetted Per. (ft)	589.95	208.31	440.89
Min Ch El (ft)	1.15	Shear (lb/sq ft)	0.06	0.11	0.03
Alpha	5.41	Stream Power (lb/ft s)	0.02	0.26	0.00
Frctn Loss (ft)	0.40	Cum Volume (acre-ft)	11303.87	7654.43	17347.59
C & E Loss (ft)	0.01	Cum SA (acres)	736.36	198.32	744.16

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 8.54*

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	33.52	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.06	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	33.46	Reach Len. (ft)	367.35	574.40	414.10
Crit W.S. (ft)		Flow Area (sq ft)	9216.43	5308.31	18773.66
E.G. Slope (ft/ft)	0.000055	Area (sq ft)	9216.43	5308.31	18773.66
Q Total (cfs)	16359.00	Flow (cfs)	1599.50	11999.33	2760.18
Top Width (ft)	5459.11	Top Width (ft)	1833.37	183.40	3442.34
Vel Total (ft/s)	0.49	Avg. Vel. (ft/s)	0.17	2.26	0.15
Max Chl Dpth (ft)	34.93	Hydr. Depth (ft)	5.03	28.94	5.45
Conv. Total (cfs)	2206450.0	Conv. (cfs)	215734.8	1618431.0	372283.8
Length Wtd. (ft)	525.95	Wetted Per. (ft)	1835.51	189.20	3467.56
Min Ch El (ft)	-1.47	Shear (lb/sq ft)	0.02	0.10	0.02
Alpha	15.56	Stream Power (lb/ft s)	0.00	0.22	0.00
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	12271.73	6451.99	27673.54
C & E Loss (ft)	0.00	Cum SA (acres)	1176.79	162.56	1262.97

Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	34.33	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.05	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.28	Reach Len. (ft)	367.35	574.40	414.10
Crit W.S. (ft)		Flow Area (sq ft)	10748.37	5458.79	21610.92
E.G. Slope (ft/ft)	0.000046	Area (sq ft)	10748.37	5458.79	21610.92
Q Total (cfs)	16359.00	Flow (cfs)	1730.07	11559.42	3069.51
Top Width (ft)	5557.40	Top Width (ft)	1900.65	183.40	3473.35
Vel Total (ft/s)	0.43	Avg. Vel. (ft/s)	0.16	2.12	0.14
Max Chl Dpth (ft)	35.75	Hydr. Depth (ft)	5.66	29.76	6.22
Conv. Total (cfs)	2399657.0	Conv. (cfs)	253778.5	1695620.0	450258.3
Length Wtd. (ft)	526.71	Wetted Per. (ft)	1902.80	189.20	3500.21
Min Ch El (ft)	-1.47	Shear (lb/sq ft)	0.02	0.08	0.02
Alpha	16.97	Stream Power (lb/ft s)	0.00	0.18	0.00
Frctn Loss (ft)	0.03	Cum Volume (acre-ft)	10134.04	6636.62	15711.31
C & E Loss (ft)	0.00	Cum SA (acres)	590.15	162.72	484.73

Warning: Divided flow computed for this cross-section.

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 8.43

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	33.49	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.05	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	33.43	Reach Len. (ft)	2600.00	4170.00	4600.00
Crit W.S. (ft)		Flow Area (sq ft)	8484.31	5298.57	20865.31
E.G. Slope (ft/ft)	0.000052	Area (sq ft)	8484.31	5298.57	20865.31
Q Total (cfs)	16359.00	Flow (cfs)	1495.07	11733.23	3130.70
Top Width (ft)	5661.33	Top Width (ft)	1889.68	182.00	3589.65
Vel Total (ft/s)	0.47	Avg. Vel. (ft/s)	0.18	2.21	0.15
Max Chl Dpth (ft)	35.09	Hydr. Depth (ft)	4.49	29.11	5.81
Conv. Total (cfs)	2258168.0	Conv. (cfs)	206376.8	1619635.0	432155.9
Length Wtd. (ft)	4005.25	Wetted Per. (ft)	1892.02	188.12	3590.87
Min Ch El (ft)	-1.66	Shear (lb/sq ft)	0.01	0.09	0.02
Alpha	15.81	Stream Power (lb/ft s)	0.00	0.20	0.00
Frctn Loss (ft)	0.23	Cum Volume (acre-ft)	12197.09	6382.06	27485.13
C & E Loss (ft)	0.00	Cum SA (acres)	1161.09	160.15	1229.55

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	34.30	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.06	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.24	Reach Len. (ft)	2600.00	4170.00	4600.00
Crit W.S. (ft)		Flow Area (sq ft)	6781.93	5445.55	12638.86
E.G. Slope (ft/ft)	0.000053	Area (sq ft)	6781.93	5445.55	12638.86
Q Total (cfs)	16359.00	Flow (cfs)	1495.77	12366.08	2497.16
Top Width (ft)	2099.00	Top Width (ft)	671.00	182.00	1246.00
Vel Total (ft/s)	0.66	Avg. Vel. (ft/s)	0.22	2.27	0.20
Max Chl Dpth (ft)	35.90	Hydr. Depth (ft)	10.11	29.92	10.14
Conv. Total (cfs)	2242574.0	Conv. (cfs)	205047.4	1695204.0	342322.6
Length Wtd. (ft)	3956.71	Wetted Per. (ft)	676.97	188.12	1254.70

Min Ch El (ft)	-1.66	Shear (lb/sq ft)	0.03	0.10	0.03
Alpha	9.03	Stream Power (lb/ft s)	0.01	0.22	0.01
Frctn Loss (ft)	0.24	Cum Volume (acre-ft)	10060.12	6564.73	15548.51
C & E Loss (ft)	0.00	Cum SA (acres)	579.31	160.31	462.30

CROSS SECTION

RIVER: Santa Fe

REACH: Main

RS: 7.64

CROSS SECTION OUTPUT Profile #100 Year

E.G. Elev (ft)	33.26	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.05	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	33.21	Reach Len. (ft)	4950.00	6230.00	4900.00
Crit W.S. (ft)		Flow Area (sq ft)	16321.64	4598.54	14547.93
E.G. Slope (ft/ft)	0.000062	Area (sq ft)	16321.64	4598.54	14547.93
Q Total (cfs)	16359.00	Flow (cfs)	3520.30	10192.81	2645.89
Top Width (ft)	5128.03	Top Width (ft)	2729.72	182.00	2216.31
Vel Total (ft/s)	0.46	Avg. Vel. (ft/s)	0.22	2.22	0.18
Max Chl Dpth (ft)	31.12	Hydr. Depth (ft)	5.98	25.27	6.56
Conv. Total (cfs)	2077773.0	Conv. (cfs)	447117.0	1294599.0	336056.9
Length Wtd. (ft)	5746.36	Wetted Per. (ft)	2730.24	184.72	2217.02
Min Ch El (ft)	2.09	Shear (lb/sq ft)	0.02	0.10	0.03
Alpha	14.46	Stream Power (lb/ft s)	0.00	0.21	0.00
Frctn Loss (ft)	0.28	Cum Volume (acre-ft)	11456.79	5908.33	25615.28
C & E Loss (ft)	0.00	Cum SA (acres)	1023.23	142.73	922.99

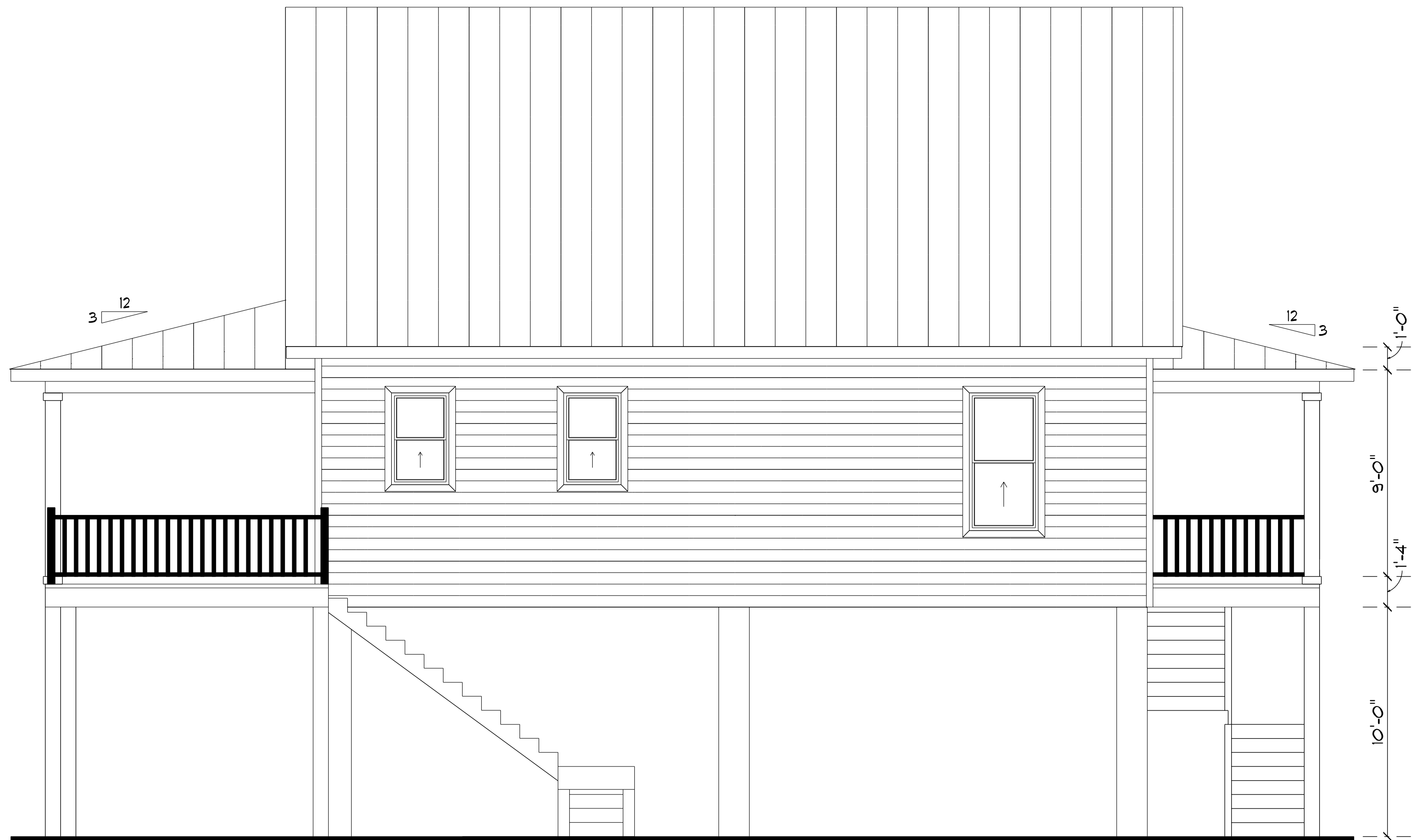
Warning: Divided flow computed for this cross-section.

CROSS SECTION OUTPUT Profile #FW

E.G. Elev (ft)	34.06	Element	Left OB	Channel	Right OB
Vel Head (ft)	0.06	Wt. n-Val.	0.280	0.045	0.280
W.S. Elev (ft)	34.00	Reach Len. (ft)	4950.00	6230.00	4900.00
Crit W.S. (ft)		Flow Area (sq ft)	14785.26	4741.86	4221.77
E.G. Slope (ft/ft)	0.000070	Area (sq ft)	14785.26	4741.86	4221.77
Q Total (cfs)	16359.00	Flow (cfs)	3915.15	11413.82	1030.02
Top Width (ft)	1694.00	Top Width (ft)	1175.00	182.00	337.00
Vel Total (ft/s)	0.69	Avg. Vel. (ft/s)	0.26	2.41	0.24
Max Chl Dpth (ft)	31.91	Hydr. Depth (ft)	12.58	26.05	12.53
Conv. Total (cfs)	1952880.0	Conv. (cfs)	467377.1	1362543.0	122960.6
Length Wtd. (ft)	5821.56	Wetted Per. (ft)	1179.31	184.72	349.29
Min Ch El (ft)	2.09	Shear (lb/sq ft)	0.05	0.11	0.05
Alpha	8.56	Stream Power (lb/ft s)	0.01	0.27	0.01
Frctn Loss (ft)	0.30	Cum Volume (acre-ft)	9416.47	6077.10	14658.26
C & E Loss (ft)	0.01	Cum SA (acres)	524.22	142.89	378.71

EXHIBIT I

HOUSE PLANS



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



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



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



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

ROOF VENTILATION:
R806.2 Minimum vent area.
The minimum net free ventilating area shall be 1/150 of the area of the vented space.
Exception: The minimum net free ventilation area shall be 1/300 of the vented space provided one or more of the following conditions are met:
1. In Climate Zones 6, 7 and 8, a Class I or II vapor retarder is installed on the warm-in-winter side of the ceiling.
2. At least 40 percent and not more than 50 percent of the required ventilating area is provided by ventilators located in the upper portion of the attic or rafter space. Upper ventilators shall be located no more than 3 feet below the ridge of highest point of the space, measured vertically, with the balance of the required ventilation provided by eave or cornice vents. Where the location of wall or roof framing members conflicts with the installation of upper ventilators, installation more than 3 feet below the ridge or highest point of the space shall be permitted.

Ricky Marshon Res.

PROJECT ADDRESS:
Columbia County, FL

FL PE 53915

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CERTIFICATION: I hereby certify that I have examined this plan, and that the applicable portions of the plan, relating to wind engineering comply with the 7th Edition Florida Building Code Residential (2020) to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

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JOB NUMBER:
221146

1
OF 6 SHEETS

HANDRAIL PROFILE:
- TYPE I: HANDRAILS WITH A CIRCULAR CROSS SECTION SHALL HAVE AN OUTSIDE DIA. OF 1 1/4" - 2". IF HANDRAIL IS NOT CIRCULAR IT SHALL HAVE A PERIMETER DIMENSION OF 4" - 6 1/4" AND MAX. CROSS SECTION OF 2 1/4".
- TYPE II: HANDRAILS WITH A PERIMETER GREATER THAN 6 1/4" SHALL PROVIDE A GRASPABLE FINGER RECESS AREA ON BOTH SIDES OF THE PROFILE. THE FINGER RECESS SHALL BEGIN WITHIN A DISTANCE OF 3/4" VERTICALLY FROM THE TALLEST PORTION OF THE PROFILE AND A DEPTH OF AT LEAST 5/8" WITHIN 7/8" BELOW THE WIDEST PORTION OF THE PROFILE. THIS REQUIRED DEPTH SHALL CONTINUE FOR AT LEAST 3/8" TO A LEVEL THAT IS NOT LESS THAN 1/4" BELOW THE TALLEST PORTION OF THE PROFILE. THE WIDTH OF THE HANDRAIL ABOVE THE RECESS SHALL BE 1 3/4" - 2 3/4". EDGES SHALL HAVE A MIN. RADIUS OF 0.01".

STAIR DESIGN LOAD REQUIREMENTS:

GUARDRAILS AND HANDRAILS:
- 200 LB SINGLE CONCENTRATED LIVE LOAD APPLIED IN ANY DIRECTION AT ANY POINT ALONG THE TOP

GUARDRAILS IN-FILL COMPONENTS:
- 50 LB LIVE LOAD APPLIED HORIZONTALLY ON AN AREA EQUAL TO 1 FT² (THIS LOAD NEED NOT BE ASSUMED TO ACT CONCURRENTLY WITH ANY OTHER LIVE LOAD REQUIREMENT.)

- GLAZING USED IN HANDRAIL ASSEMBLIES AND GUARDS SHALL BE DESIGNED WITH A SAFETY FACTOR OF 4. THE SAFETY FACTOR SHALL BE APPLIED TO EACH OF THE CONCENTRATED LOADS APPLIED TO THE TOP OF THE RAIL, AND TO THE LOAD ON THE IN-FILL COMPONENTS. THESE LOADS SHALL BE DETERMINED INDEPENDENT OF ONE ANOTHER, AND LOADS ARE ASSUMED NOT TO OCCUR WITH ANY OTHER LIVE LOAD.

STAIRS:
- 40 PSF LIVE LOAD, OR 300 LB CONCENTRATED LOAD OVER AN AREA OF 4 IN² (WHICHEVER PRODUCES THE GREATER STRESSES)

NOSINGS:
EVERY TREAD LESS THAN 11" SHALL HAVE A NOSING OR EFFECTIVE PROJECTION OF APPROX. 1" OVER THE LEVEL BELOW. A NOSING IS NOT REQUIRED WHERE THE TREAD IS A MIN. 11". THE RADIUS OF CURVATURE AT THE LEADING EDGE OF TREAD SHALL BE NO GREATER THAN 9/16". BEVELING OF NOSING SHALL NOT EXCEED 1/2".

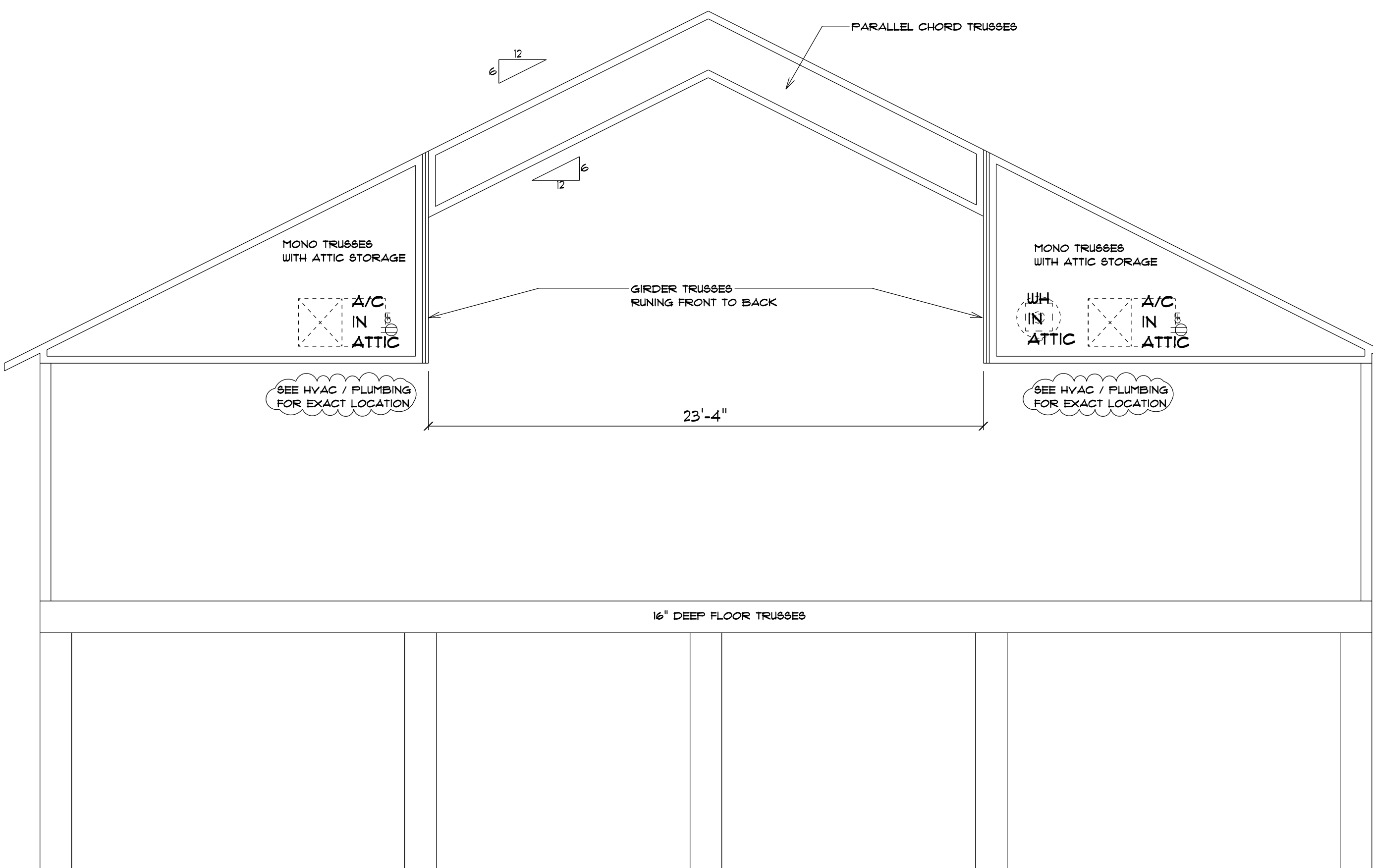
RISERS SHALL BE VERTICAL OR SLOPED AT AN ANGLE NOT MORE THAN 30 DEGREES FROM VERTICAL. OPEN RISERS ARE PERMITTED, PROVIDED THAT THE OPENING BETWEEN TREADS DOES NOT PERMIT THE PASSAGE OF A 4" DIA. SPHERE. OPENING BETWEEN TREADS IS NOT LIMITED IF TOTAL RISE IS 30" OR LESS.

WINDER TREADS SHALL HAVE A MIN. TREAD DEPTH OF 10" MEASURED AT A POINT 12" FROM NARROWEST END. WINDER TREADS SHALL HAVE A MIN. DEPTH OF NOT LESS THAN 6" AT ANY POINT WITHIN THE CLEAR WIDTH OF THE STAIR. THE GREATEST DEPTH IN ANY FLIGHT OF STAIRS SHALL NOT EXCEED THE SMALLEST BY MORE THAN 3/8".

MAX. TREAD SLOPE OF 2 PERCENT (1" VERT UNIT IN 48" HORIZ. UNITS)

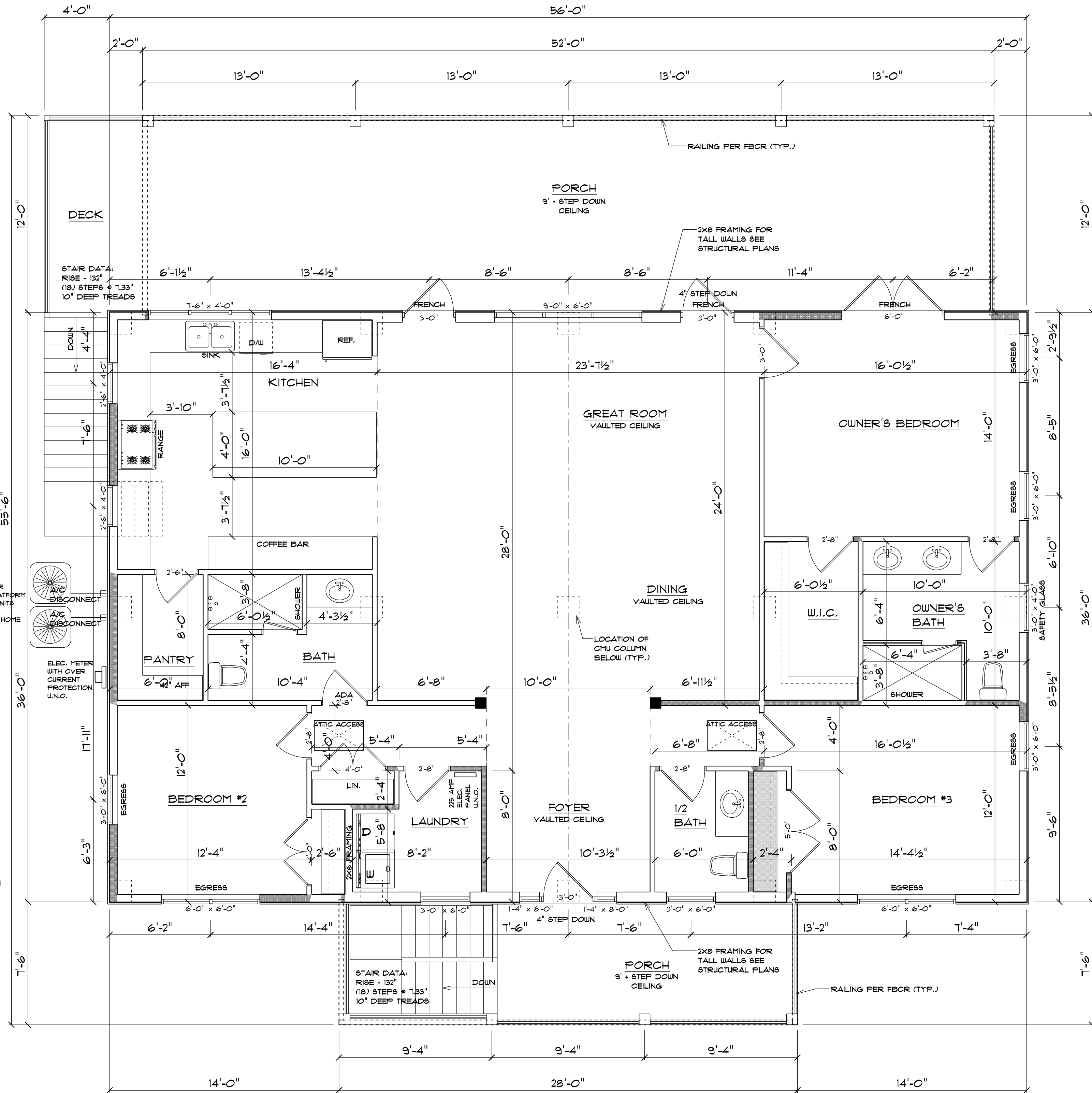
TYPICAL STAIR AND GUARDRAIL REQUIREMENTS

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



CROSS SECTION

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



FLOOR PLAN

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

ALL CEILING HEIGHTS TO BE 10'-0" UNLESS NOTED OTHERWISE

AREA SCHEDULE	
NAME	AREA
Living	2016 sq. ft.
Front Porch	210 sq. ft.
Rear Porch	624 sq. ft.
Deck	72 sq. ft.
Total	2922 sq. ft.

Ricky Merston Res.

FL PE 53915
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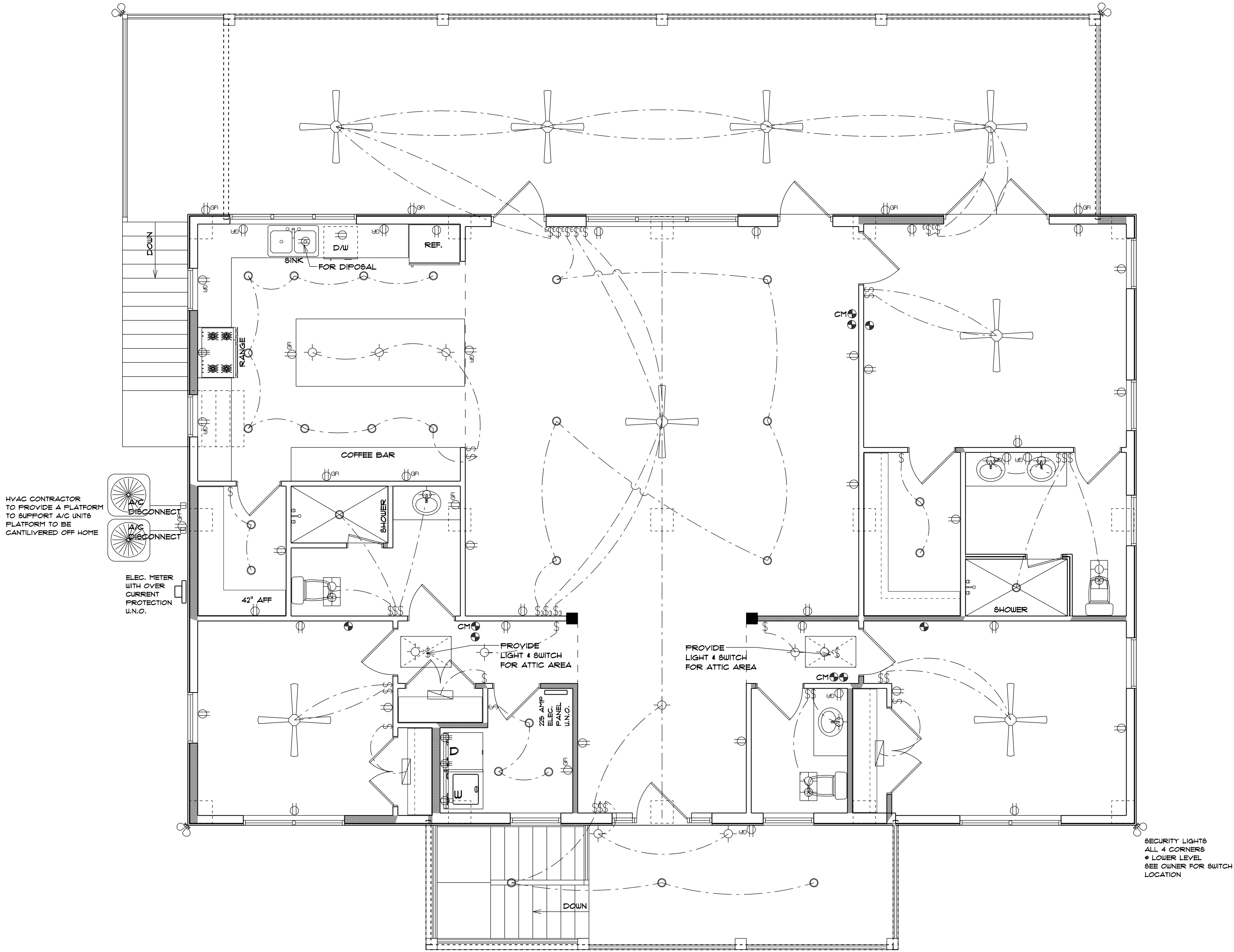
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2
OF 6 SHEETS

	ELECTRICAL LEGEND
	CEILING FAN (PRE-WIRE FOR LIGHT KIT)
	DOUBLE SECURITY LIGHT
	2X4 FLUORESCENT LIGHT FIXTURE
	RECESSED CAN LIGHT
	BATH EXHAUST FAN WITH LIGHT
	BATH EXHAUST FAN
	LIGHT FIXTURE
	DUPLEX OUTLET
	220v OUTLET
	GFI DUPLEX OUTLET
	SMOKE DETECTOR
	WALL SWITCH
	3 WAY WALL SWITCH
	4 WAY WALL SWITCH
	WATER PROOF GFI OUTLET
	PHONE JACK
	TELEVISION JACK
	GARAGE DOOR OPENER
	CARBON MONOXIDE ALARM

ELECTRICAL PLAN NOTES:	
E - 1	WIRE ALL APPLIANCES, HVAC UNITS AND OTHER EQUIPMENT PER MANUF. SPECIFICATIONS.
E - 2	CONSULT THE OWNER FOR THE NUMBER OF SEPERATE TELEPHONE LINES TO BE INSTALLED.
E - 3	ALL INSTALLATIONS SHALL BE PER NAT'L. ELECTRIC CODE.
E - 4	ALL SMOKE DETECTORS SHALL BE 120V W/ BATTERY BACKUP OF THE PHOTOELECTRIC TYPE, AND SHALL BE INTERLOCKED TOGETHER. INSTALL INSIDE AND NEAR ALL BEDROOMS.
E - 5	TELEPHONE, TELEVISION AND OTHER LOW VOLTAGE DEVICES OR OUTLETS SHALL BE AS PER THE OWNERS DIRECTIONS, & IN ACCORDANCE W/ APPLICABLE SECTIONS OF NEC-LATEST EDITION.
E - 6	ELECTRICAL CONTR SHALL BE RESPONSIBLE FOR THE DESIGN & SIZING OF ELECTRICAL SERVICE AND CIRCUITS.
E - 7	ENTRY OF SERVICE (UNDERGROUND OR OVERHEAD) TO BE DETERMINED BY POWER COMPANY.
E - 8	ALL 120-VOLT, SINGLE-PHASE, 15- AND 20-AMPERE BRANCH CIRCUITS SUPPLYING OUTLETS INSTALLED IN DWELLING UNIT FAMILY ROOMS, DINING ROOMS, LIVING ROOMS, PARLORS, LIBRARIES, DENS, BEDROOMS, SUN ROOMS, RECREATION ROOMS, CLOSETS, HALLWAYS, OR SIMILAR ROOMS OR AREAS SHALL BE PROTECTED BY A LISTED ARC-FAULT CIRCUIT INTERRUPTER, COMBINATION-TYPE INSTALLED TO PROVIDE PROTECTION OF THE BRANCH CIRCUIT.
E - 9	ALL OUTLETS TO BE LOCATED ABOVE BASE FLOOD ELEVATION.
E - 10	A SERVICE DISCONNECT WITH OVER CURRENT PROTECTION SHALL BE INSTALLED OUTSIDE OF THE BUILDING, ON THE LOAD SIDE OF THE METER AT THE PLACE ELECTRIC CONDUCTORS ENTER THE BUILDING. SERVICE ENTRANCE CONDUCTORS MAY NOT BE LOCATED INSIDE OF THE OF THE BUILDING WITHOUT SPECIAL APPROVAL OF THE BUILDING OFFICIAL.
E - 11	CARBON MONOXIDE ALARMS SHALL BE REQUIRED WITHIN 10' OF ALL ROOMS FOR SLEEPING PURPOSES IN BUILDINGS HAVING A FOSSIL-FUEL-BURNING HEATER OR APPLIANCE, A FIREPLACE, OR ATTACHED GARAGE.
E - 12	ALL OUTLETS LOCATED IN RESIDENTIAL TO BE TAMPER-RESISTANT PER NEC.
E - 13	A MINIMUM OF 75% OF PERMANENTLY INSTALLED LAMPS OR LIGHTING FIXTURES SHALL BE HIGH EFFICACY FBC EC SEC. #A94.1



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

Ricky Merston Res.

PROJECT ADDRESS:
Columbia County, FL

FL PE 53915

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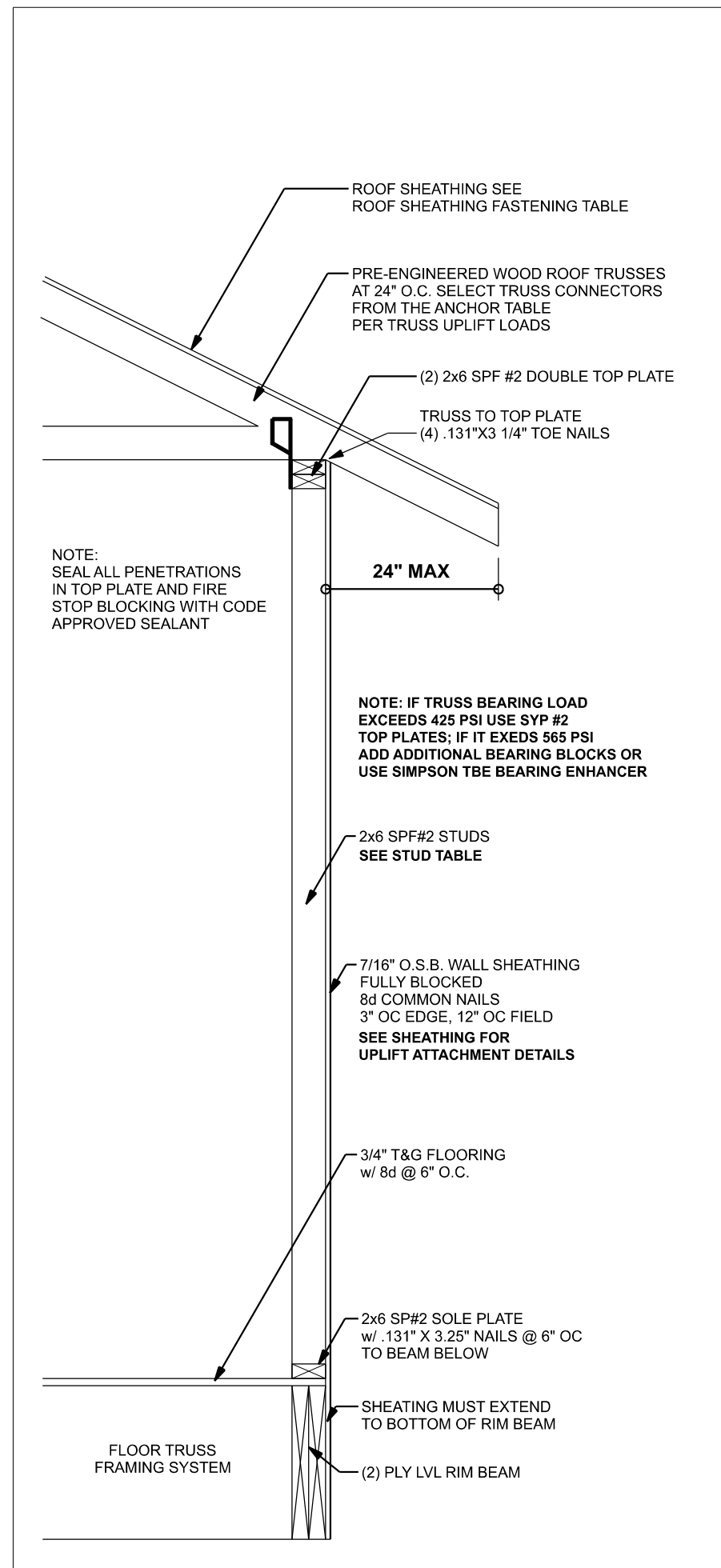
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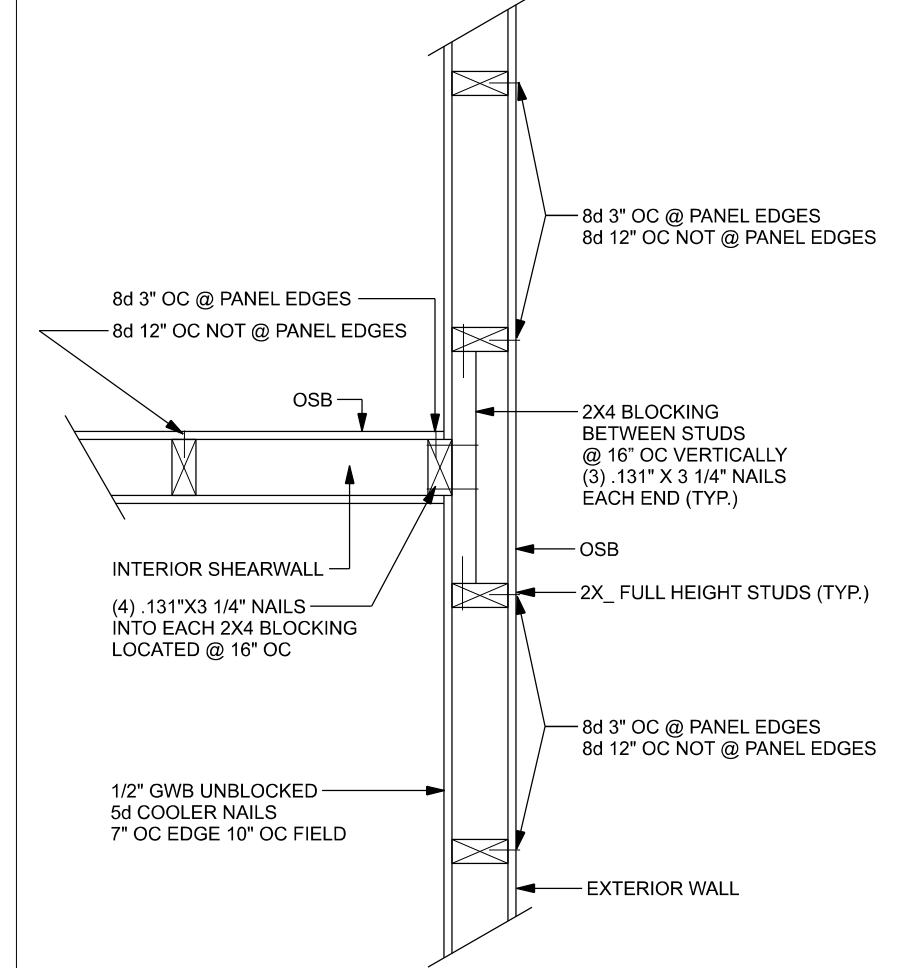
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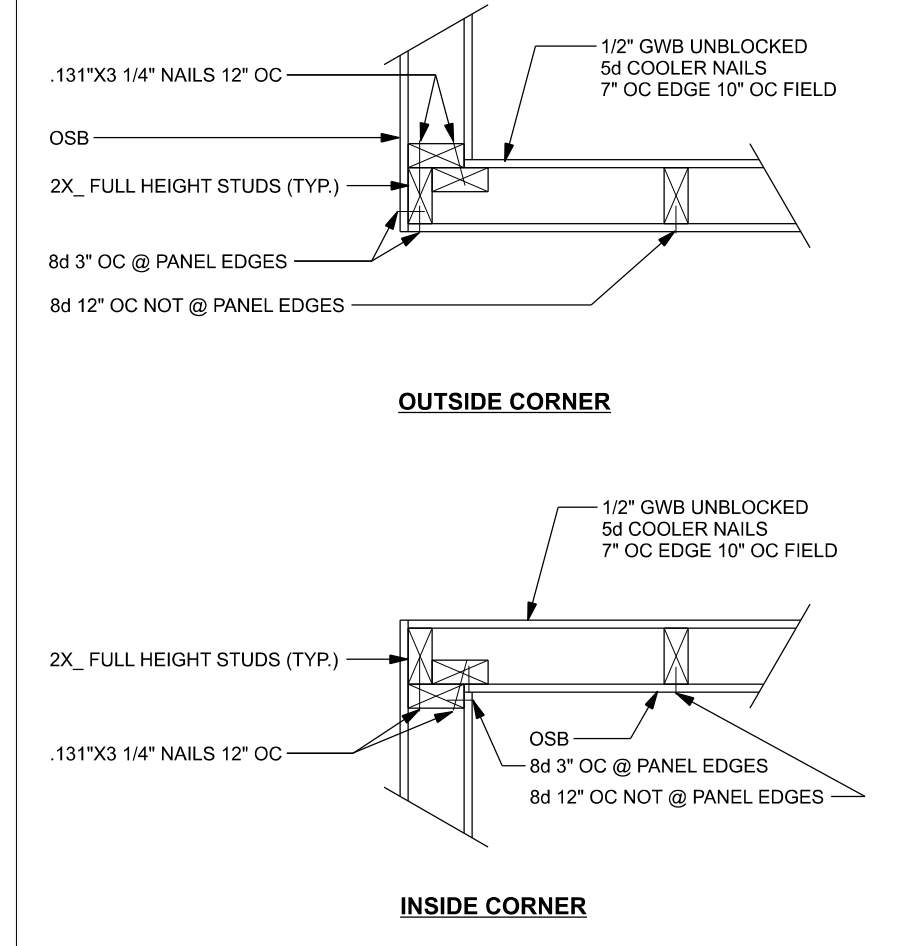
3
OF 6 SHEETS



ONE STORY WALL SECTION
SCALE: 3/4" = 1'-0"



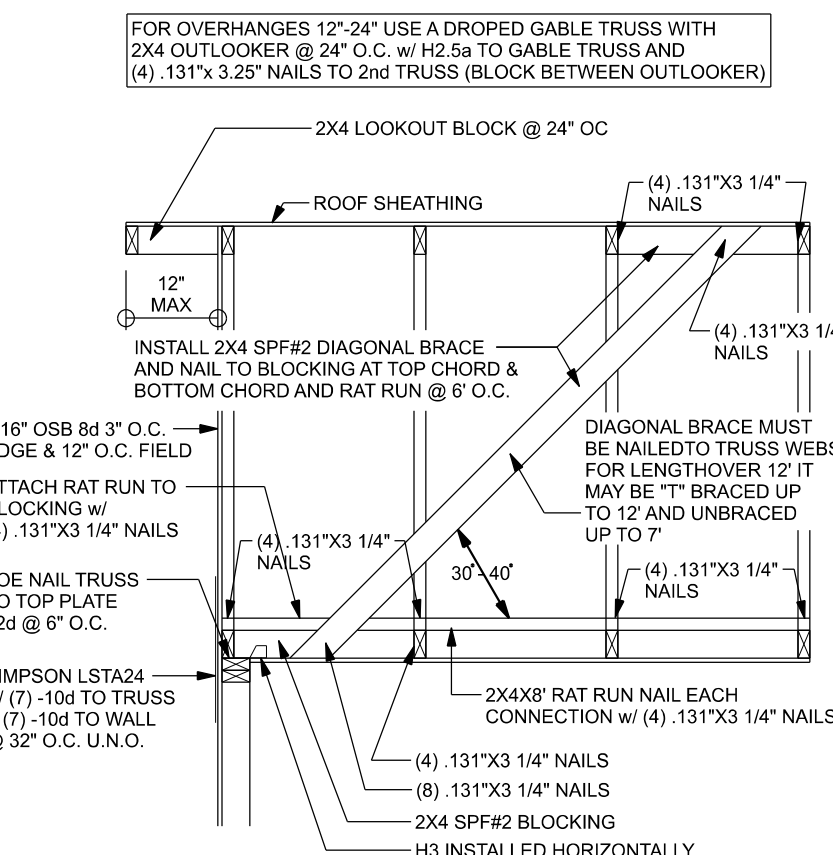
(TYP.) INTERSECTING WALL FRAMING
WOOD FRAME



(TYP.) CORNER FRAMING
WOOD FRAME

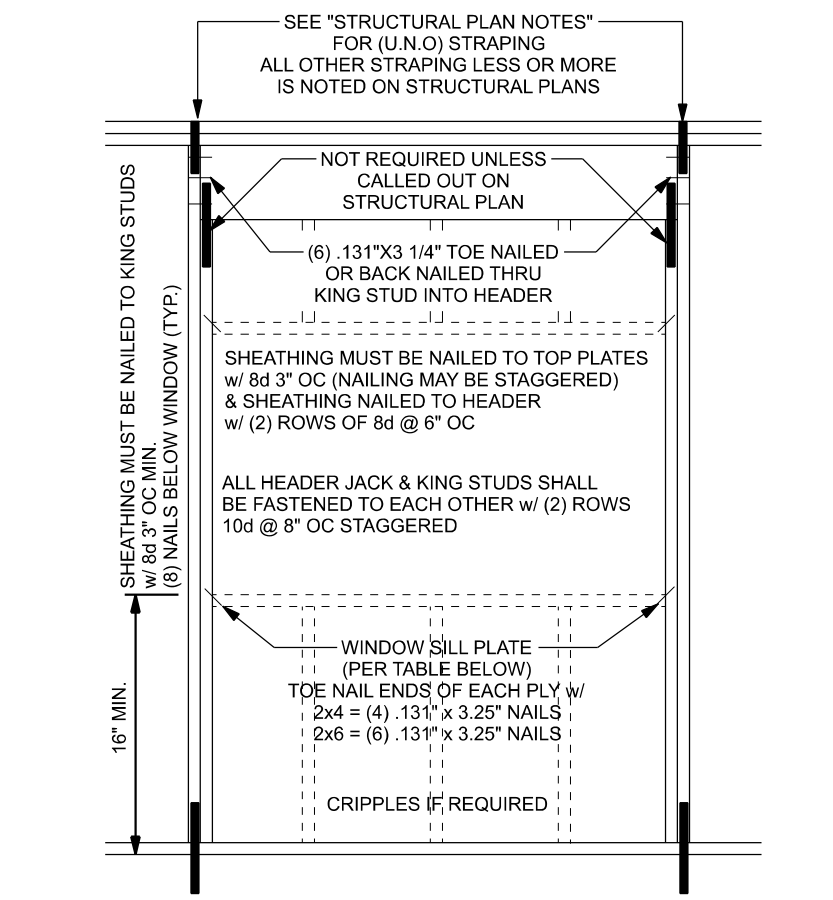
ROOF SHEATHING FASTENING TABLE (RAFTER / TRUSS SG = 0.49)				
Wind Speed	Sheathing Thickness Plywood Or OSB	Required Nail	Nail spacing along panel edges	Nail spacing along intermediate supports in the panel field
120 mph Exp. B	7/16"	ASTM F1667 RSRs-01 (2 3/8" x 0.131")	6" oc	12" oc
120 mph Exp. C	7/16"	ASTM F1667 RSRs-01 (2 3/8" x 0.131")	6" oc	12" oc
130 mph Exp. B	19/32"	ASTM F1667 RSRs-03 (2 1/2" x 0.131") or ASTM F1667 RSRs-04 (3" x 0.120")	6" oc	6" oc
130 mph Exp. C	19/32"	ASTM F1667 RSRs-01 (2 3/8" x 0.131")	6" oc	6" oc
130 mph Exp. D	19/32"	ASTM F1667 RSRs-03 (2 1/2" x 0.131") or ASTM F1667 RSRs-04 (3" x 0.120")	6" oc	6" oc
140 mph Exp. B	7/16"	ASTM F1667 RSRs-01 (2 3/8" x 0.131")	6" oc	6" oc
140 mph Exp. C	19/32"	ASTM F1667 RSRs-03 (2 1/2" x 0.131") or ASTM F1667 RSRs-04 (3" x 0.120")	6" oc	6" oc
140 mph Exp. D	19/32"	ASTM F1667 RSRs-03 (2 1/2" x 0.131") or ASTM F1667 RSRs-04 (3" x 0.120")	6" oc	6" oc
150 mph Exp. C	19/32"	ASTM F1667 RSRs-03 (2 1/2" x 0.131") or ASTM F1667 RSRs-04 (3" x 0.120")	6" oc	6" oc
150 mph Exp. D	19/32"	ASTM F1667 RSRs-03 (2 1/2" x 0.131") or ASTM F1667 RSRs-04 (3" x 0.120")	4" oc	4" oc

Note: For sheathing located a minimum of 4 feet from the perimeter edge of the roof, including 4 feet on each side of ridges and hips, nail spacing is permitted to be 8 inches on center along panel edges and 6 inches on center along intermediate supports in the panel field. Note: This table specifies the code minimum thickness of roof sheathing. The thickness of the sheathing may need to be increased based in the type of roofing material being used. See manufacturer Florida product approval.

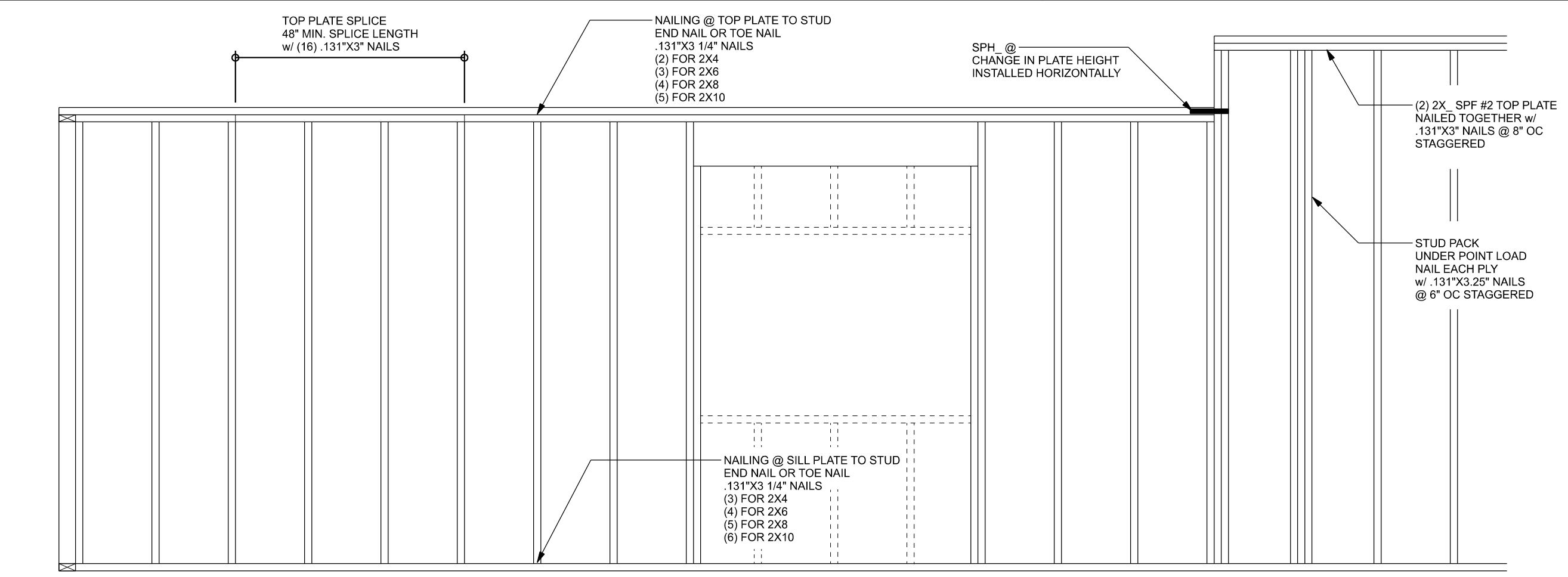


SPACE RAT RUN & DIAGONAL BRACE 6'-0" O.C.
FOR GABLE HEIGHT UP TO 25'-0" 130 MPH, EXP. C, ENCLOSED

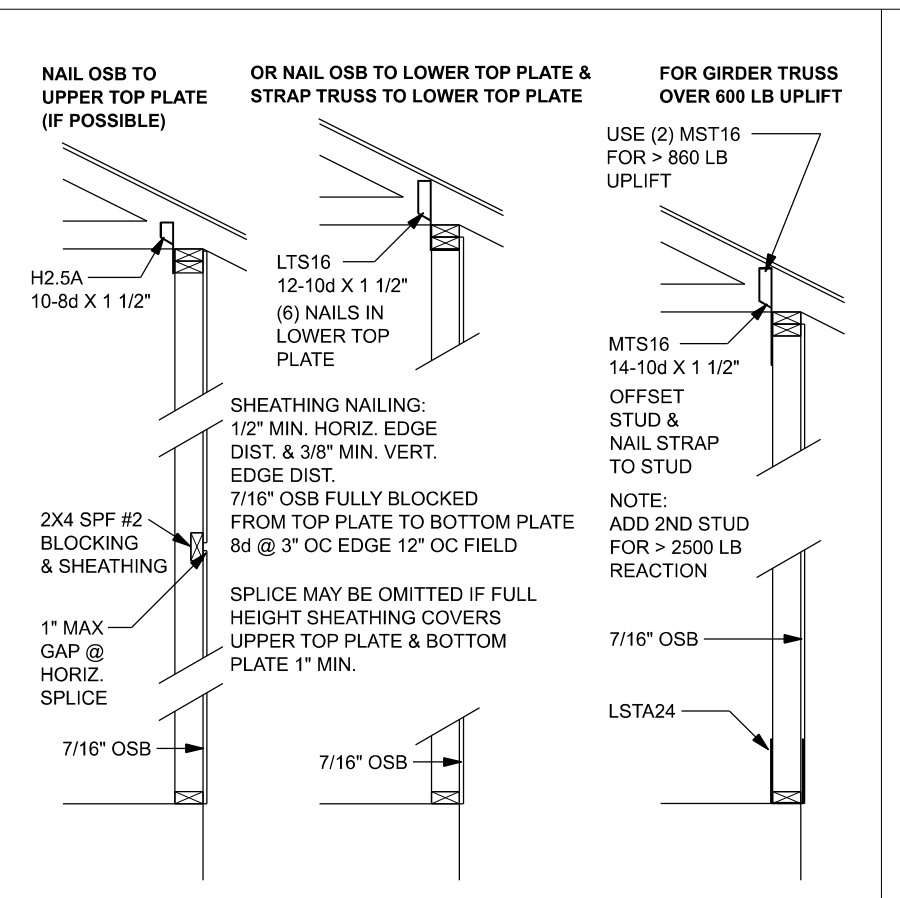
(TYP.) GABLE BRACING DETAIL
WOOD FRAME



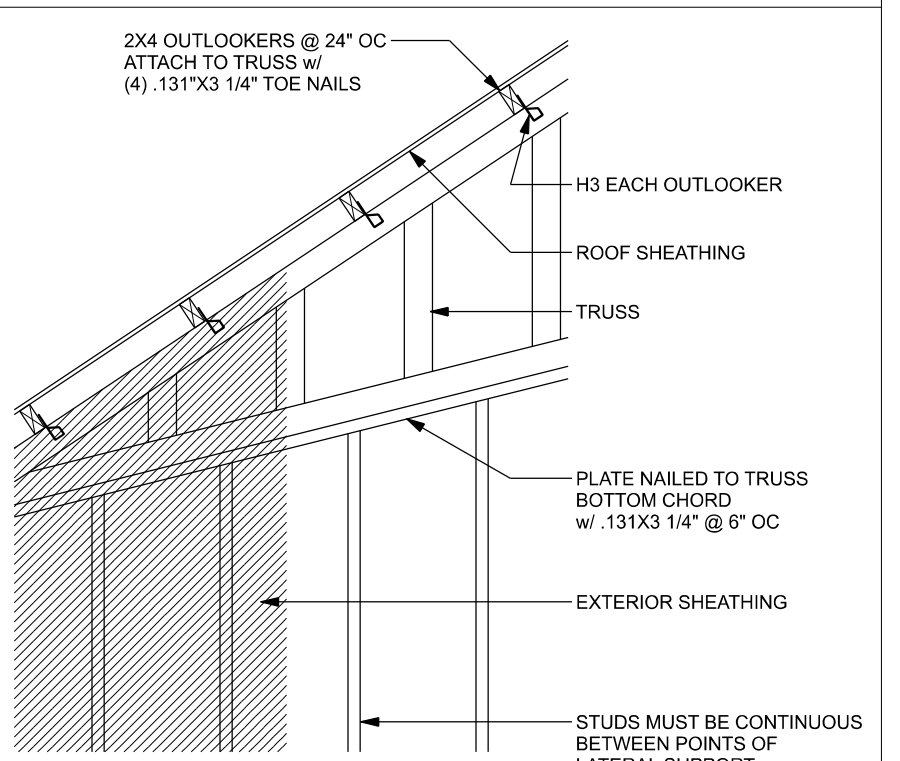
TYPICAL HEADER STRAPING DETAIL
WOOD FRAME w/ STRAPS & ANCHORS



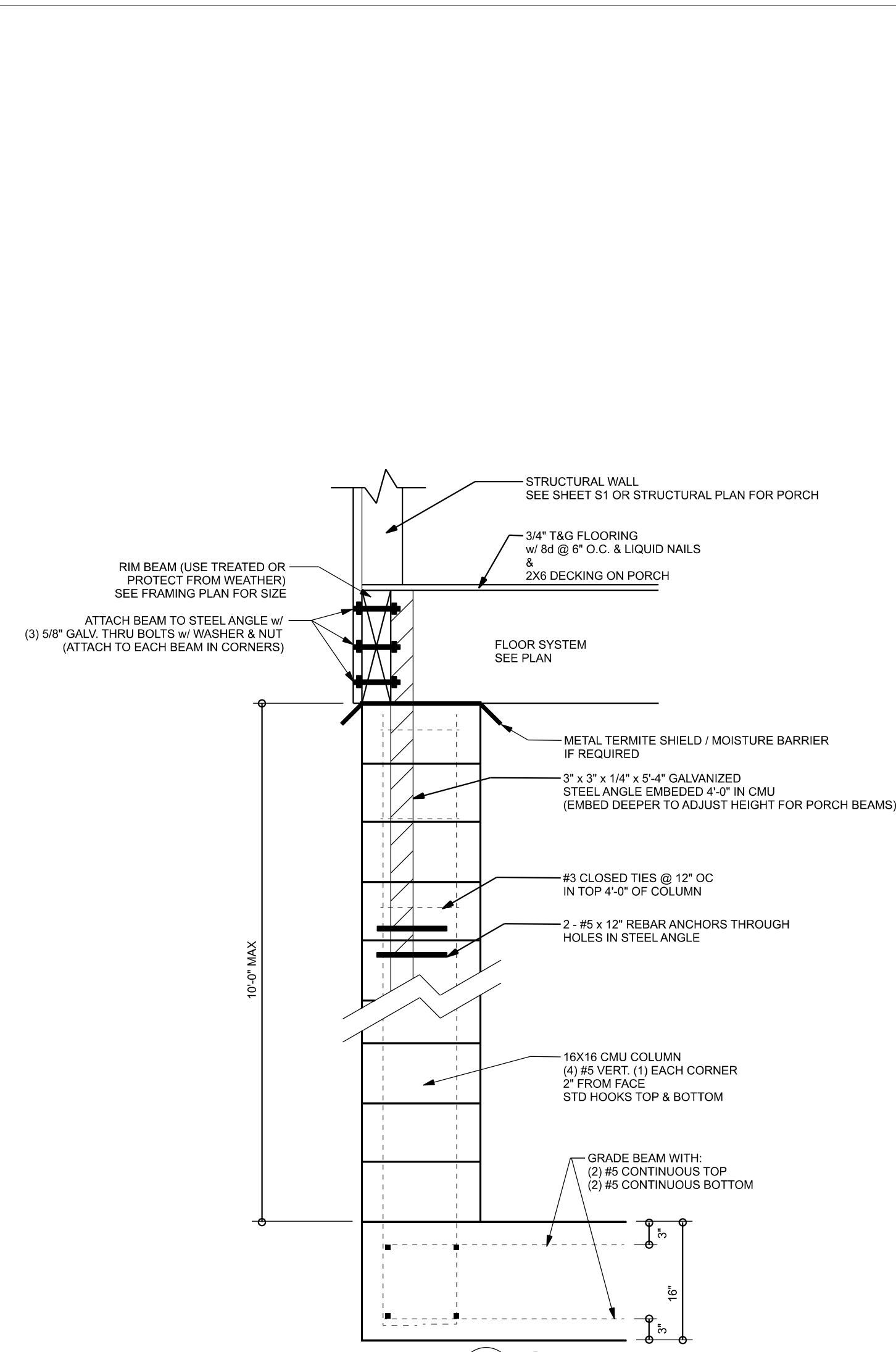
(TYP.) WALL CONNECTIONS
ONE STORY WOOD FRAME



SHEATHING FOR UPLIFT
ATTACHMENT DETAILS
ONE STORY WOOD FRAME



(TYP.) GABLE WALL w/ VAULTED CEILING
WOOD FRAME



TYPICAL CMU COLUMN SECTION HOUSE & PORCH
SCALE: 3/4" = 1'-0"

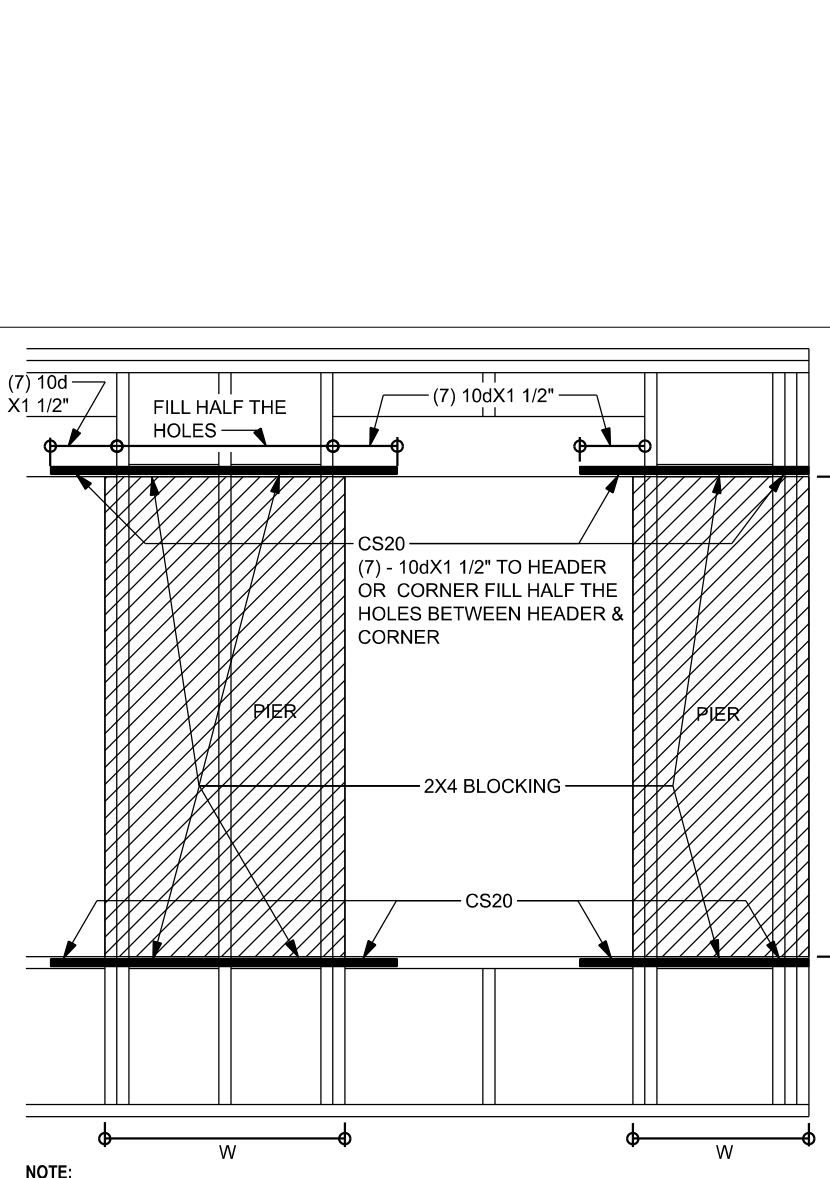
CONNECTOR TABLE				
Uplift SP/Uplift SPF	Truss Connector	To Plate	To Truss/Rafter	
615	485	SDWC15600	-	-
415	290	H3	4-8x1 1/2"	4-8x1 1/2"
575	495	H2.5A	5-8x1 1/2"	5-8x1 1/2"
1340	1015	H10A	9-10d1 1/2"	9-10d1 1/2"
720	620	LTS12-20	6-10d1 1/2"	6-10d1 1/2"
1000	860	MTS12-30	7-10d1 1/2"	7-10d1 1/2"
1450	1245	HTS20-30	12-10d1 1/2"	12-10d1 1/2"
Uplift SP/Uplift SPF	Strap Ties	To One Member	To Other Member	
1235	1235	LSTA21	8-10d	8-10d
771	771	LSTA24	10-10d	10-10d
1235	1235	LSTA24	14-10d	14-10d
Uplift SP/Uplift SPF	Stud Plate Ties	To Stud	To Plate	
585	535	SP1	6-10d	4-10d
1065	605	SP2	6-10d	6-10d
771	771	LSTA24	10-10d	10-10d
1235	1235	LSTA24	14-10d	14-10d
Uplift SP/Uplift SPF	Holdowns @ Stenwall	To Stud / Post	Anchor	
1825	1800	DTT22	8-SDS 1/4"x1 1/2"	1/2"x12" Titen HD
4235	3640	HTT4	18-16d2 1/2"	1/2"x12" Titen HD
Uplift SP/Uplift SPF	Holdowns @ Mono	To Stud / Post	Anchor	
1925	1800	DTT22	8-SDS 1/4"x1 1/2"	1/2"x12" Titen HD
4235	3640	HTT4	18-16d2 1/2"	1/2"x12" Titen HD
Uplift SP/Uplift SPF	Post Bases @ Stenwall	To Post	Anchor	
2475	ABU4Z	12-16d	5/8"x12" Drill & Epoxy	
1900	ABU6Z	12-16d	5/8"x12" Drill & Epoxy	
Uplift SP/Uplift SPF	Post Bases @ Mono	To Post	Anchor	
2475	ABU4Z	12-16d	5/8"x12" Drill & Epoxy	
1900	ABU6Z	12-16d	5/8"x12" Drill & Epoxy	

EXTERIOR WALL STUD TABLE FOR SPF #2 STUDS:

THIS STUD HEIGHT TABLE IS PER 2012 WFCM, TABLE 3.20B5, EXTERIOR LOAD BEARING & NON LOAD BEARING STUD LENGTHS FOR WALLS WITH OSB EXTERIOR AND 12" GYP INTERIOR RESISTING INTERIOR ZONE WINDLOADS, 130 MPH, EXPOSURE C, STUD DEFLECTION LIMIT H/240 (NOT OK FOR BRITTLE FINISH). STUD SPACINGS SHALL BE MULTIPLIED BY 0.8 FOR FRAMING LOCATED WITHIN 4 FEET OF CORNERS FOR END ZONE LOADING. (END ZONE EXAMPLE 16" O.C. x 0.8 = 12.8" O.C.)

(1) 2x4 @ 16" OC	TO 10'-1" STUD HEIGHT
(1) 2x4 @ 12" OC	TO 11'-2" STUD HEIGHT
(1) 2x6 @ 16" OC	TO 15'-7" STUD HEIGHT
(1) 2x6 @ 12" OC	TO 17'-3" STUD HEIGHT
(1) 2x8 @ 16" OC	TO 22'-0" STUD HEIGHT

GRADE & SPECIES TABLE			
		Fb	E
2x8	SP #2	925	1.4
2x10	SP #2	800	1.4
2x12	SP #2	750	1.4
GLB	24F-V3 SP	2600	1.9
LSL	TIMBERSTRAND	1700	1.7
LVL	MICROLAM	2950	2.0
PSL	PARALAM	2900	2.0



TYPICAL CMU COLUMN SECTION HOUSE & PORCH
SCALE: 3/4" = 1'-0"

OPENING FORCE TRANSFER
WOOD FRAME

GENERAL NOTES:

TRUSSES: TRUSSES SHALL BE DESIGNED BY A FLORIDA LICENSED ENGINEER IN ACCORDANCE WITH THE FBCR. TRUSS ENGINEERING SHALL INCLUDE TRUSS DESIGN, PLACEMENT AND TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS. TRUSS ENGINEERING IS THE RESPONSIBILITY OF THE TRUSS MANUFACTURER AND SHALL BE SIGNED & SEALED BY THE MANUFACTURER'S DESIGN ENGINEER. IT IS THE BUILDER'S RESPONSIBILITY TO VERIFY THE TRUSS DESIGNER FULLY SATISFIED ALL THE ABOVE REQUIREMENTS AND TO SELECT UPLIFT CONNECTIONS BASED ON TRUSS ENGINEERING UPLIFT AND PROVIDE FOOTINGS FOR INTERIOR BEARING WALLS. BUILDER IS TO FURNISH TRUSS ENGINEERING TO WIND LOAD ENGINEER FOR REVIEW OF TRUSS REACTIONS ON THE BUILDING STRUCTURE. STRAP 2X6 RAFTERS WITH MIN. UPLIFT CONNECTION 415LB EACH END, 2X6 RAFTERS 700 LB EACH END.

SITE PREPARATION: SITE ANALYSIS AND PREPARATION IS NOT PART OF THIS PLAN. FOUNDATION: CONFIRM THAT THE FOUNDATION DESIGN & SITE CONDITIONS MEET GRAVITY LOAD REQUIREMENTS (ASSUME 1500 PSF BEARING CAPACITY UNLESS VISUAL OBSERVATION OR SOILS TEST PROVES OTHERWISE).

CONCRETE: MINIMUM COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS, F_c = 2500 PSI. WELDED WIRE REINFORCED SLAB: 6" x 6" W14 x W14, F_y = 80ksi, WELDED WIRE REINFORCEMENT FABRIC (W.W.F.) CONFORMING TO ASTM A185, LOCATED IN MIDDLE OF THE SLAB, SUPPORTED WITH APPROVED MATERIALS OR SUPPORTS AT SPACINGS NOT TO EXCEED 3'.

FIBER CONCRETE SLAB: CONCRETE SLABS ON GROUND CONTAINING SYNTHETIC FIBER REINFORCEMENT, FIBER LENGTH 12 INCH TO 2 INCHES, DOSAGE AMOUNTS FROM 0.75 TO 1.5 POUNDS PER CUBIC YARD PER THE MANUFACTURER'S RECOMMENDATIONS. FIBERS TO COMPLY WITH ASTM C 1118. SUPPLIER TO PROVIDE ASTM C 1118 CERTIFICATION OF COMPLIANCE WHEN REQUESTED BY BUILDING OFFICIAL.

CONTROL JOINTS: WHERE SPECIFIED, SAWN CONTROL JOINTS IN SLAB-ON-GRADE SHALL BE CUT IN ACCORDANCE WITH ACI 302. JOINTS SHALL BE CUT WITHIN 12 HOURS OF SLAB PLACEMENT. THE LENGTH / WIDTH RATIOS OF SLAB AREAS SHALL NOT EXCEED 1:5 AND TYPICAL SPACING OF CUTS TO BE LEFT. DO NOT CUT WMM OR REINFORCING STEEL (RECOMMENDED LOCATION OF CONTROL JOINTS IS SUBJECT TO OWNER AND CONTRACTOR APPROVAL. THE CONTROL JOINTS ARE NOT INTENDED TO PREVENT CRACKS BUT RATHER TO ENCOURAGE THE SLAB TO CRACK ON A GIVEN LINE.)

REBAR: ASTM A615, GRADE 40, DEFORMED BARS, F_y = 40 KSI, ALL LAP SPLICES 40" DB (25" FOR #5 BARS), UNO, ALL REINFORCEMENT SHALL BE DETAILLED AND PLACED IN ACCORDANCE WITH THE PLAN NOTES.

ROOF SHEATHING: ALL ROOFS ARE HORIZONTAL. DIAPHRAGMS, SHEATHING, UNBLOCKED, APPLIED PERPENDICULAR TO FRAMING, OVER A MINIMUM OF 3 FRAMING MEMBERS, WITH PANEL EDGES STAGGERED.

STRUCTURAL CONNECTORS: MANUFACTURERS AND PRODUCT NUMBER FOR CONNECTORS, ANCHORS, AND REINFORCEMENT ARE LISTED FOR EXAMPLE NOT ENDORSEMENT. AN EQUIVALENT DEVICE OF THE SAME OR OTHER MANUFACTURER CAN BE SUBSTITUTED FOR ANY DEVICES LISTED IN THE EXAMPLE TABLES AS LONG AS IT MEETS THE REQUIRED LOAD CAPACITIES. MANUFACTURER'S INSTALLATION INSTRUCTIONS MUST BE FOLLOWED TO ACHIEVE RATED LOADS.

ANCHOR BOLTS: A-307 ANCHOR BOLTS WITH MINIMUM EMBEDMENT AS SPECIFIED IN DRAWINGS BUT NO LESS THAN 7" IN CONCRETE OR REINFORCED BOND BEAM OR 10" IN GROUTED CMU.

BUILDER'S RESPONSIBILITY:

THE BUILDER AND OWNER ARE RESPONSIBLE FOR THE FOLLOWING, WHICH ARE SPECIFICALLY NOT PART OF THE WIND LOAD ENGINEER'S SCOPE OF WORK.

CONFIRM SITE CONDITIONS, FOUNDATION BEARING CAPACITY, GRADE AND BACKFILL HEIGHT, WIND SPEED AND DEBRIS ZONE, AND FLOOD ZONE.

PROVIDE MATERIALS AND CONSTRUCTION TECHNIQUES, WHICH COMPLY WITH FBCR REQUIREMENTS FOR THE STATED WIND VELOCITY AND DESIGN PRESSURES.

PROVIDE A CONTINUOUS LOAD PATH FROM TRUSSES TO FOUNDATION. IF YOU BELIEVE THE PLAN OMTS A CONTINUOUS LOAD PATH CONNECTION, CALL THE WIND LOAD ENGINEER IMMEDIATELY.

VERIFY THE TRUSS MANUFACTURER'S SEALED ENGINEERING INCLUDES TRUSS DESIGN, PLACEMENT PLANS, TEMPORARY AND PERMANENT BRACING DETAILS, TRUSS-TO-TRUSS CONNECTIONS, AND UPLIFT AND REACTION LOADS FOR ALL BEARING LOCATIONS.

ROOF SYSTEM DESIGN:

THE SEAL ON THESE PLANS FOR COMPLIANCE WITH FBCR, IS BASED ON REACTIONS, UPLIFTS, AND BEARING LOCATIONS IN TRUSS ENGINEERING SUBMITTED TO THE WIND LOAD ENGINEER. IT IS THE RESPONSIBILITY OF THE BUILDER TO CHECK ALL DETAILS OF THE COMPLETE ROOF SYSTEM DESIGN SUBMITTED BY THE TRUSS MANUFACTURER AND HAVE IT SIGNED, AND SEALED BY A DESIGN PROFESSIONAL FOR CORRECT APPLICATION OF FBCR REQUIRED LOADS AND ANY SPECIAL LOADS. THE BUILDER IS RESPONSIBLE TO REVIEW EACH INDIVIDUAL TRUSS MEMBER AND THE TRUSS ROOF SYSTEM AS A WHOLE AND TO PROVIDE RESTRAINT FOR ANY LATERAL BRACING. THE BUILDER SHOULD USE CARE CHECKING THE ROOF DESIGN BECAUSE THE WIND LOAD ENGINEER IS SPECIFICALLY NOT RESPONSIBLE FOR THE TRUSS LAYOUT WHICH WAS CREATED BY THE TRUSS MANUFACTURER AND THE TRUSS DESIGNER ALSO DENIES RESPONSIBILITY FOR THE LAYOUT PER NOTES ON THEIR SEALED TRUSS SHEETS.

Ricky Marshon Res.

PROJECT ADDRESS: Columbia County, FL

FL PE 53915

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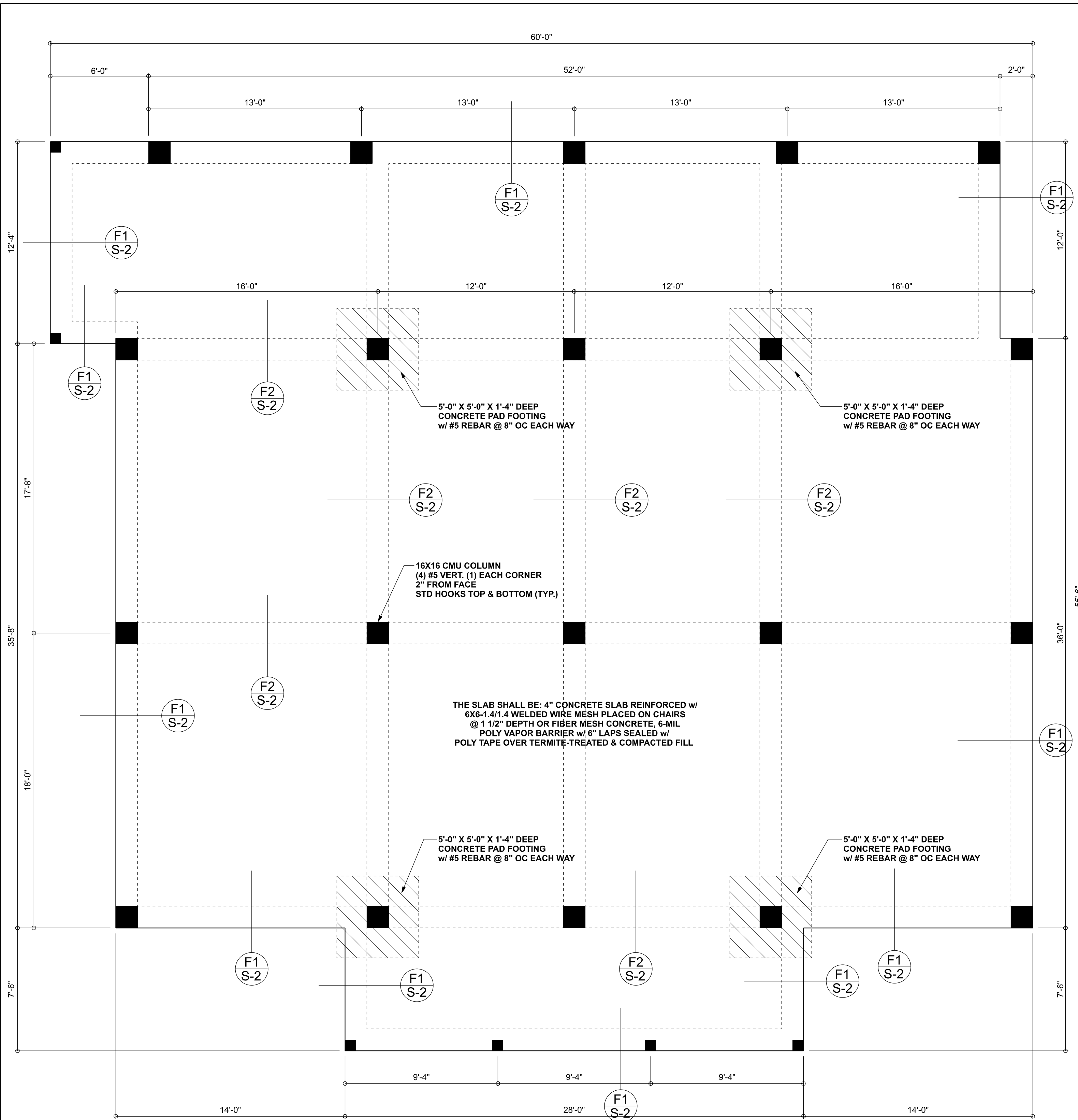
CERTIFICATION: I hereby certify that I have examined this plan, relating to wind engineering comply with the 7th Edition Florida Building Code Residential (2020) to the best of my knowledge.

LIMITATION: This design is valid for one building, at specified location.

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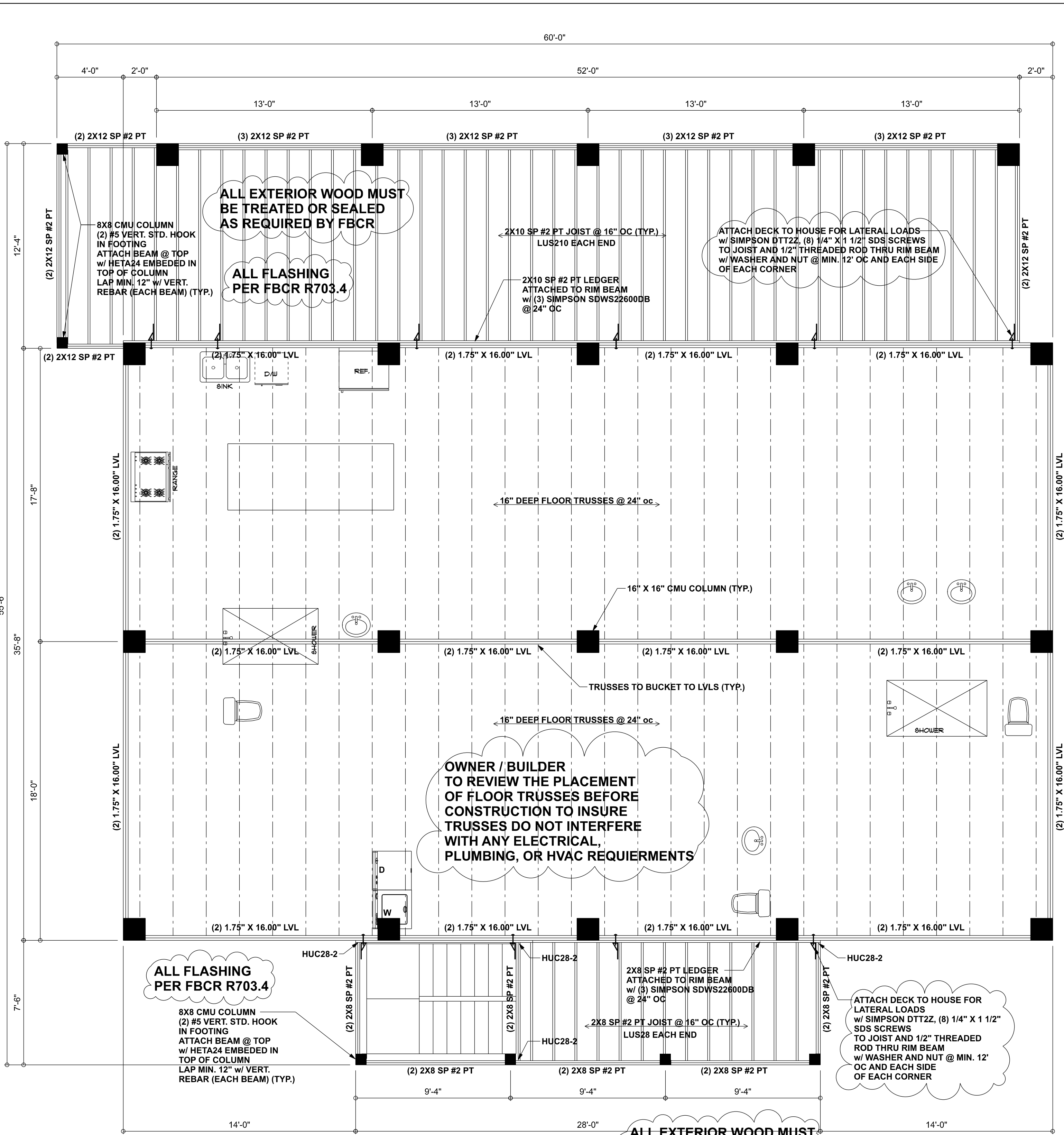
S-1
OF 6 SHEETS



FOUNDATION PLAN

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

NOTE:
GRADE BEAM FOOTING MAY BE STEPPED
TO FOLLOW GRADE. MAINTAIN CONTINUITY
OF ALL TOP & BOTTOM STEEL



COLUMN LAYOUT & 1ST FLOOR FRAMING

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

Ricky Mershon Res.

PROJECT ADDRESS:
Columbia County, FL

FL PE 53915

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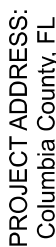
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S-2
OF 6 SHEETS



SN-1	DIMENSIONS ON STRUCTURAL SHEETS ARE NOT EXACT. REFER TO ARCHITECTURAL FLOOR PLAN FOR ACTUAL DIMENSIONS
SN-2	PERMANENT TRUSS BRACING IS TO BE INSTALLED AT LOCATIONS AS SHOWN ON THE SEALED TRUSS DRAWINGS. LATERAL BRACING IS TO BE RESTRAINED PER BCSCI-03, BCSCI-B1, BCSCI-B2, & BCSCI-B3. BCSCI-B1, BCSCI-B2, & BCSCI-B3 ARE FURNISHED BY THE TRUSS SUPPLIER, WITH THE SEALED TRUSS PACKAGE

ACTUAL vs REQUIRED SHEARWALL		
	TRANSVERSE	LONGITUDINAL
ACTUAL	14973 LBF	13994 LBF
REQUIRED	13548 LBF	12829 LBF



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S-3
OF 6 SHEETS