

CONSTRUCTION PLANS FOR SMATHERS BEACH PAVILIONS ITB #24-002



LOCATION MAP:

SITE LOCATION

CITY OF KEY WEST
ARTIBUS DESIGN TASK ORDER #2212-01

PROJECT LOCATION:
SMATHERS BEACH,
2018 S ROOSEVELT BLVD,
KEY WEST, FL 33040

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CLIENT: CITY OF KEY WEST
ENGINEERING DEPARTMENT
1300 WHITE ST,
KEY WEST, FL 33040

PROJECT: SMATHERS BEACH
PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: COVER

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| PROJECT NO: 1907-20 | DRAWING NO: G-100 | REVISION: 1 | |



SITE MAP
SCALE: NTS

PROJECT DESCRIPTION: THIS PROJECT CONSISTS OF THE RENOVATIONS AND RE-ROOFING OF SEVEN (7) BEACH PAVILION STRUCTURES LOCATED ALONG SMATHERS BEACH. IMPROVEMENTS INCLUDE BUT ARE NOT LIMITED TO:

- REMOVAL AND DISPOSAL OF ALL ROOFING, FRAMING HARDWARE AS NEEDED FOR NEW INSTALLATION
- REMOVAL STORAGE AND REINSTALLATION OF ANY EXISTING FURNITURE LOCATED UNDER THE PAVILION ROOFS AS NEEDED FOR NEW INSTALLATION.
- MANUAL EXCAVATION OF ACCRETED SAND AROUND PAVILION SUPPORTS.
- NO VEHICLES SHALL DRIVE OR PARK OVER THE SAND.
- ALL STORAGE AND STAGING SHALL BE OFF-SITE.
- INSTALLATION OF ALL NEW FRAMING, HARDWARE AND ROOFING AS SHOWN ON THE PLANS.

NOTES:
 1. NO IMPACTS ARE TO OCCUR TO ANY VEGETATION SURROUNDING THE WORK AREAS, ESPECIALLY THE SEA OATS. TREE PROTECTION BARRIERS SHALL BE INSTALLED TO PROTECT THE VEGETATIVE AREAS FROM IMPACTS OF DEMOLITION, STAGING, AND RECONSTRUCTION.
 2. ANY WORK THAT OCCURS BETWEEN APRIL 15 AND OCTOBER 31 MUST INCORPORATE SEA TURTLES PROTECTION MEASURES.
 3. THE CONTRACTOR SHALL USE THE BRIDAL PATH AS A STAGING AREA FOR ALL CONSTRUCTION MATERIALS.
 4. THE CONTRACTOR SHALL MEET ALL CITY OF KEY WEST CODE OF ORDINANCES INCLUDING BUT NOT LIMITED TO ARTICLE IV. - COASTAL RESOURCES, SECTIONS 110-181 - COASTAL IMPACTS; 110-182 - SHORELINE VEGETATION AND STABILITY; AND 110-189 - SHORELINE ACCESS AND PROTECTION OF NATURAL SHORELINE AND LIMITED BEACH/DUNE SYSTEM.

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 1300 WHITE ST,
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PROJECT: SMATHERS BEACH PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
 KEY WEST, FL 33040

TITLE: SITE MAP

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| 1907-20 | G-101 | 1 | |

GENERAL REQUIREMENTS:

1. PRIOR TO STARTING ANY WORK THE CONTRACTOR SHALL REVIEW THESE PLANS AND SITE CONDITIONS AND NOTIFY THE ENGINEER IF ANY DISCREPANCIES ARE DISCOVERED.
2. THE ENGINEER IS NOT RESPONSIBLE FOR THE SUPERVISION OF THE CONTRACTOR NOR HIS EMPLOYEES DURING THE CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MEANS AND ESTABLISH METHODS OF THE CONSTRUCTION TO MEET REQUIREMENTS OF ALL APPLICABLE CODES, INDUSTRY STANDARDS AND REQUIREMENTS OF THESE PLANS.
3. QUALITY OF THE WORK SHALL MEET OR EXCEED INDUSTRY STANDARD PRACTICES.
4. ANY DEVIATIONS FROM THESE PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER.

SUBMITTALS:

1. THE CONTRACTOR SHALL PROVIDE 5 ORIGINAL SUBMITTALS FOR ALL MATERIALS, PRODUCTS, AND ACCESSORIES USED FOR THIS PROJECT (NO EXCEPTIONS).
2. ALL SUBMITTALS SHALL BE REVIEWED, APPROVED, DATED AND SIGNED BY THE GENERAL CONTRACTOR REPRESENTATIVE PRIOR SUBMITTING FOR ENGINEERS REVIEW.
3. THE CONTRACTOR SHALL PREPARE AND MAINTAIN SUBMITTAL LOG FOR ALL PRODUCT WITH LIST OF ALL SUBMITTALS, THEIR STATUS AND DATES OF SUBMITTAL AND APPROVAL.
4. THE CONTRACTOR SHALL PLAN IN ADVANCE FOR TIMELY PREPARATION OF ALL SUBMITTALS AND ALLOW 2-3 WEEKS FOR REVIEW AND CORRECTION PROCESS.
5. THE ENGINEER AND THE CITY SHALL REVIEW ALL SUBMITTALS AND PROVIDE TIMELY TURNAROUND OF REVIEWS.
6. THE CONTRACTOR SHALL FURNISH PROJECT SCHEDULE PRIOR TO BEGINNING WORK.

DESIGN DATA:

1. APPLICABLE BUILDING CODE: FBC 7TH EDITION (2020)
2. APPLICABLE DESIGN LOADS: PER ASCE/SEI 7-16
 ROOF LIVE LOAD: 20 PSF (300 LB CONC.)
 BASIC WIND SPEED: 180 MPH
 EXPOSURE: D
 STRUCTURAL CATEGORY: II
 FLOOD ZONE: VE11/VE13
 FLOOD RESISTANT DESIGN AND CONSTRUCTION PER ASCE 24-14
 FLOOD DESIGN CLASS 2, WET FLOOD PROOFING

ALL PRESSURES SHOWN ARE BASED ON ASD DESIGN WITH A LOAD FACTOR OF 0.6.

STRUCTURAL LUMBER

1. ALL WOOD MEMBERS SHALL MEET OR EXCEED REQUIREMENTS SPECIFIED IN "ANSI/AF&PA NATIONAL DESIGN SPECIFICATION (NDS) FOR WOOD CONSTRUCTION" AND ALL REFERENCED STANDARDS.
2. ALL WOOD MEMBERS SHALL BE SOUTHER PINE NO1 OR GREATER KILN DRIED AS SPECIFIED IN THE STANDARDS, UNLESS OTHERWISE SPECIFIED.
3. ALL WOOD MEMBERS EXPOSED TO EXTERIOR, IN DIRECT CONTACT WITH CONCRETE OR STEEL SHALL BE PRESSURE-TREATED (PT) UC4B GRADE PER AWPA STANDARDS.
4. ALL FIELD CUTS IN PT LUMBER SHALL TREATED ON SITE.
5. NAILING SHALL BE IN ACCORDANCE WITH FBC 2020. NAILS AND OTHER FASTENERS FOR PT WOOD SHALL BE STAINLESS STEEL.
6. SHEATHING SHALL BE 3/4" CDX PLYWOOD SHEATHING GRADE, UNLESS OTHERWISE IS SPECIFIED ON THE PLANS. USE 10D RING-SHANK NAILS WITH SPACING OF 4" O.C. ON ALL EDGES AND 6" O.C. IN THE FIELD.

HARDWARE

1. HARDWARE SHALL BE 316 STAINLESS STEEL OR BETTER UNLESS OTHERWISE SPECIFIED.
2. ALL CONNECTORS SHALL HAVE STAINLESS STEEL SCREWS AND FASTENERS.

STRUCTURAL STEEL

1. STRUCTURAL STEEL COMPONENTS SHALL BE AS DESCRIBED IN "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" AISC 360 OR LATER EDITION.
2. HSS SHAPES (STRUCTURAL TUBING) SHALL BE ASTM A240 316/316L. (FY=30 KSI)
3. STEEL PLATES, FLANGES AND MISCELLANEOUS ELEMENTS SHALL BE ASTM A240 316/316L (FY=30 KSI) UNLESS NOTED OTHERWISE ON THE PLANS.
4. W-SHAPES, C-SHAPES AND OTHER FORMED STEEL SHALL BE ASTM A240 316/316L (FY=30 KSI).
5. ALL WELDING SHALL BE IN CONFORMANCE WITH THE LATEST SPECIFICATIONS AWS D1.6/D1.6M:2017, STRUCTURAL WELDING CODE - STEEL.
6. BOLTS: 316 STAINLESS STEEL. ASTM F593, ASTM F594-09(2020) HEX NUTS, ASTM A240 WASHERS.
 ANCHOR BOLTS: 316 STAINLESS STEEL. ASTM A240 316/316L (FY=30 KSI).

STRUCTURAL STEEL COATING

1. ALL SURFACES SHALL BE ABRASIVE BLAST CLEANED TO NEAR-WHITE METAL (PER SSPC-SP10) EXPOSED STEEL:
 2. ALL SURFACES SHALL BE PRIMED WITH POLYAMIDE EPOXY - ONE COAT (8.0 MILS DFT).
 3. APPLY SEALANT AT ALL LOCATIONS WHERE STEEL IS WELDED, LAPPED ETC. SEALANT MATERIAL SHALL BE COMPATIBLE WITH THE PAINTING SYSTEM.
 4. TOP LAYER SHALL BE TWO (2) COAT POLYURETHANE (3.0 MILS DFT EACH).
 5. TOP PAINT SHALL BE UV RESISTANT OR HAVE A UV RESISTANT COATING.
 6. COLORS SHALL MATCH EXISTING OR TO BE SELECTED BY THE OWNER.
- NON-EXPOSED STEEL (INTERIOR):
 7. 2 COATS OF "SUMTER COATINGS" UNIVERSAL PRIMER (6.0 MILS DFT) OR APPROVED EQUAL.

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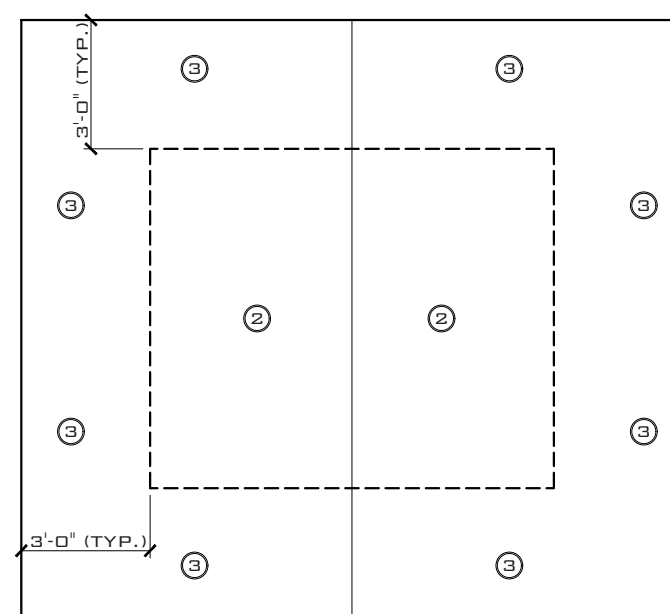
PROJECT: SMATHERS BEACH
 PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
 KEY WEST, FL 33040

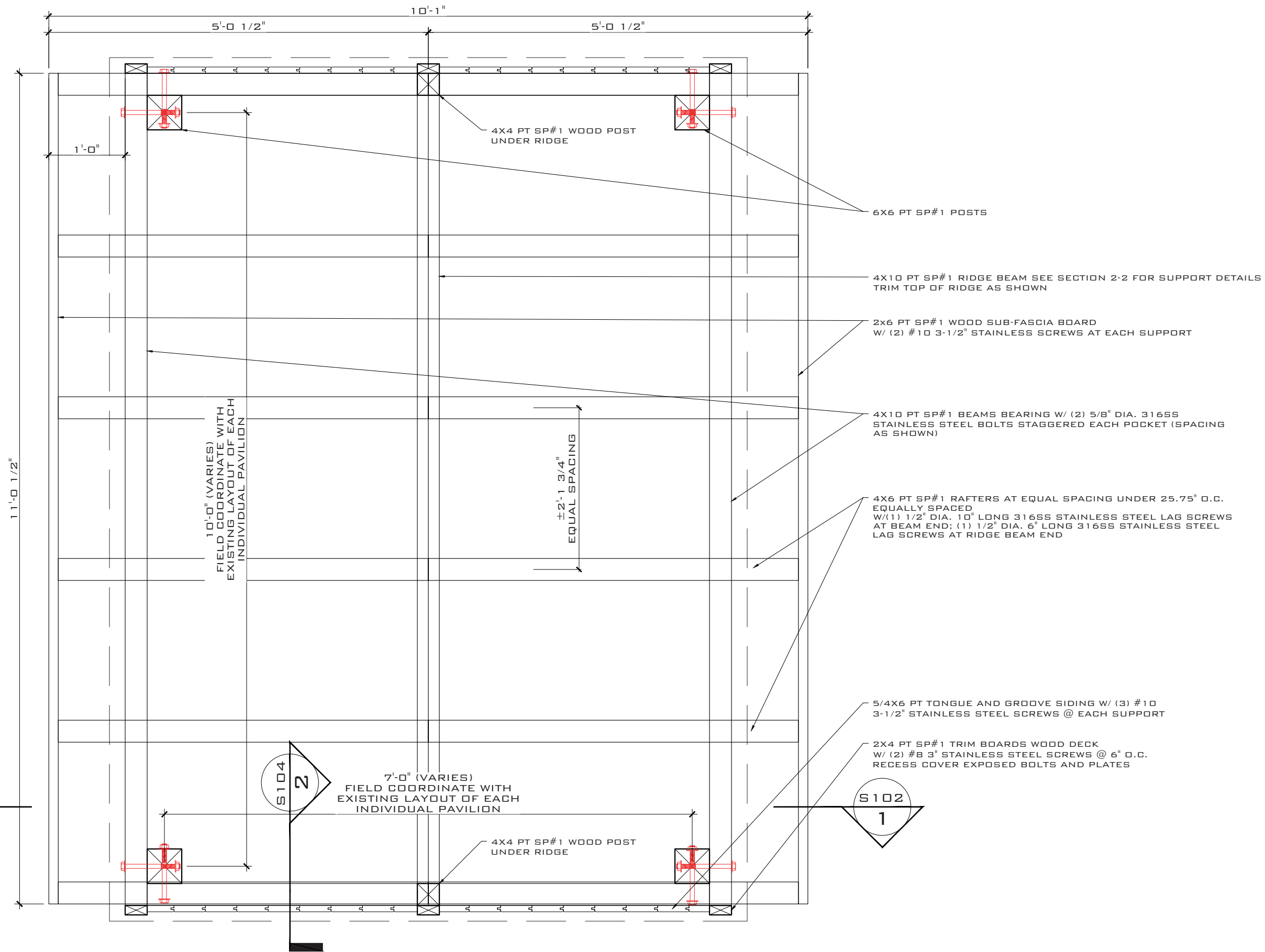
TITLE: NOTES

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| OPEN STRUCTURE - BUILDING | | | | | |
|---|-----------|----------|-----------------------|------------|------------|
| WIND PRESSURE ON COMPONENTS AND CLADDING (CH 30 PART 1) | | | | | |
| DESCRIPTION | WIDTH, FT | SPAN, FT | AREA, FT ² | MAX P, PSF | MIN P, PSF |
| ZONE 1 | 1 | 1 | 1 | +39.58 | -27.42 |
| ZONE 2 | 1 | 1 | 1 | +60.89 | -42.63 |
| ZONE 3 | 1 | 1 | 1 | +79.15 | -54.84 |



ROOF WIND PRESSURES DIAGRAM
 SCALE: NTS



FRAMING PLAN

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

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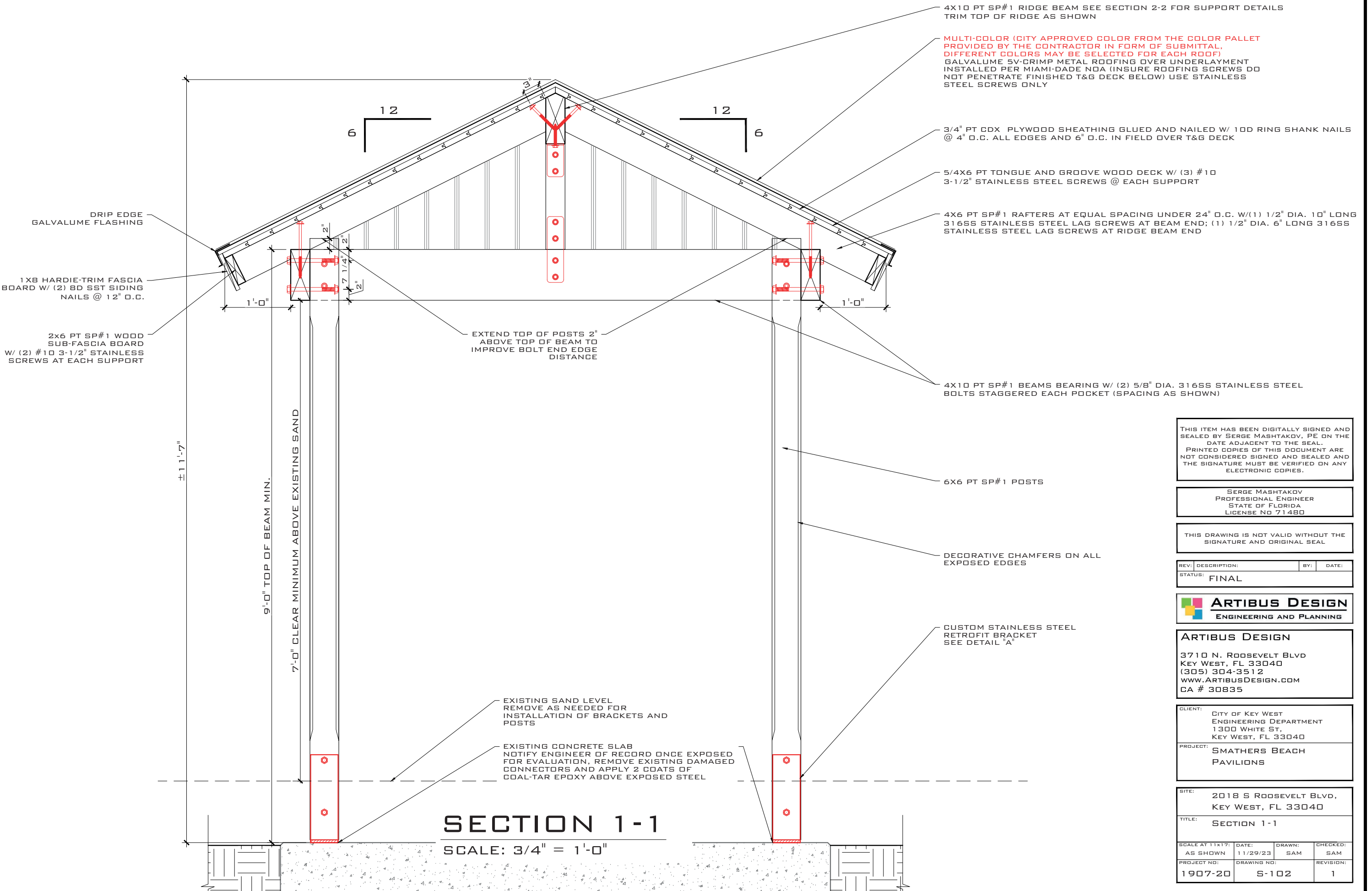
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PROJECT: SMATHERS BEACH
PAVILIONS

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TITLE: FRAMING PLAN

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4X10 PT SP#1 RIDGE BEAM SEE SECTION 2-2 FOR SUPPORT DETAILS TRIM TOP OF RIDGE AS SHOWN

MULTI-COLOR (CITY APPROVED COLOR FROM THE COLOR PALLET PROVIDED BY THE CONTRACTOR IN FORM OF SUBMITTAL, DIFFERENT COLORS MAY BE SELECTED FOR EACH ROOF) GALVALUME 5V-CRIMP METAL ROOFING OVER UNDERLAYMENT INSTALLED PER MIAMI-DADE NOA (INSURE ROOFING SCREWS DO NOT PENETRATE FINISHED T&G DECK BELOW) USE STAINLESS STEEL SCREWS ONLY

3/4" PT CDX PLYWOOD SHEATHING GLUED AND NAILED W/ 10D RING SHANK NAILS @ 4" O.C. ALL EDGES AND 6" O.C. IN FIELD OVER T&G DECK

5/4X6 PT TONGUE AND GROOVE WOOD DECK W/ (3) #10 3-1/2" STAINLESS STEEL SCREWS @ EACH SUPPORT

4X6 PT SP#1 RAFTERS AT EQUAL SPACING UNDER 24" O.C. W/(1) 1/2" DIA. 10" LONG 316SS STAINLESS STEEL LAG SCREWS AT BEAM END; (1) 1/2" DIA. 6" LONG 316SS STAINLESS STEEL LAG SCREWS AT RIDGE BEAM END

4X10 PT SP#1 BEAMS BEARING W/ (2) 5/8" DIA. 316SS STAINLESS STEEL BOLTS STAGGERED EACH POCKET (SPACING AS SHOWN)

6X6 PT SP#1 POSTS

DECORATIVE CHAMFERS ON ALL EXPOSED EDGES

CUSTOM STAINLESS STEEL RETROFIT BRACKET SEE DETAIL "A"

DRIP EDGE GALVALUME FLASHING

1XB HARDIE-TRIM FASCIA BOARD W/ (2) 8D SST SIDING NAILS @ 12" O.C.

2x6 PT SP#1 WOOD SUB-FASCIA BOARD W/ (2) #10 3-1/2" STAINLESS SCREWS AT EACH SUPPORT

EXTEND TOP OF POSTS 2" ABOVE TOP OF BEAM TO IMPROVE BOLT END EDGE DISTANCE

EXISTING SAND LEVEL REMOVE AS NEEDED FOR INSTALLATION OF BRACKETS AND POSTS

EXISTING CONCRETE SLAB NOTIFY ENGINEER OF RECORD ONCE EXPOSED FOR EVALUATION, REMOVE EXISTING DAMAGED CONNECTORS AND APPLY 2 COATS OF COAL-TAR EPOXY ABOVE EXPOSED STEEL

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PROJECT: SMATHERS BEACH
PAVILIONS

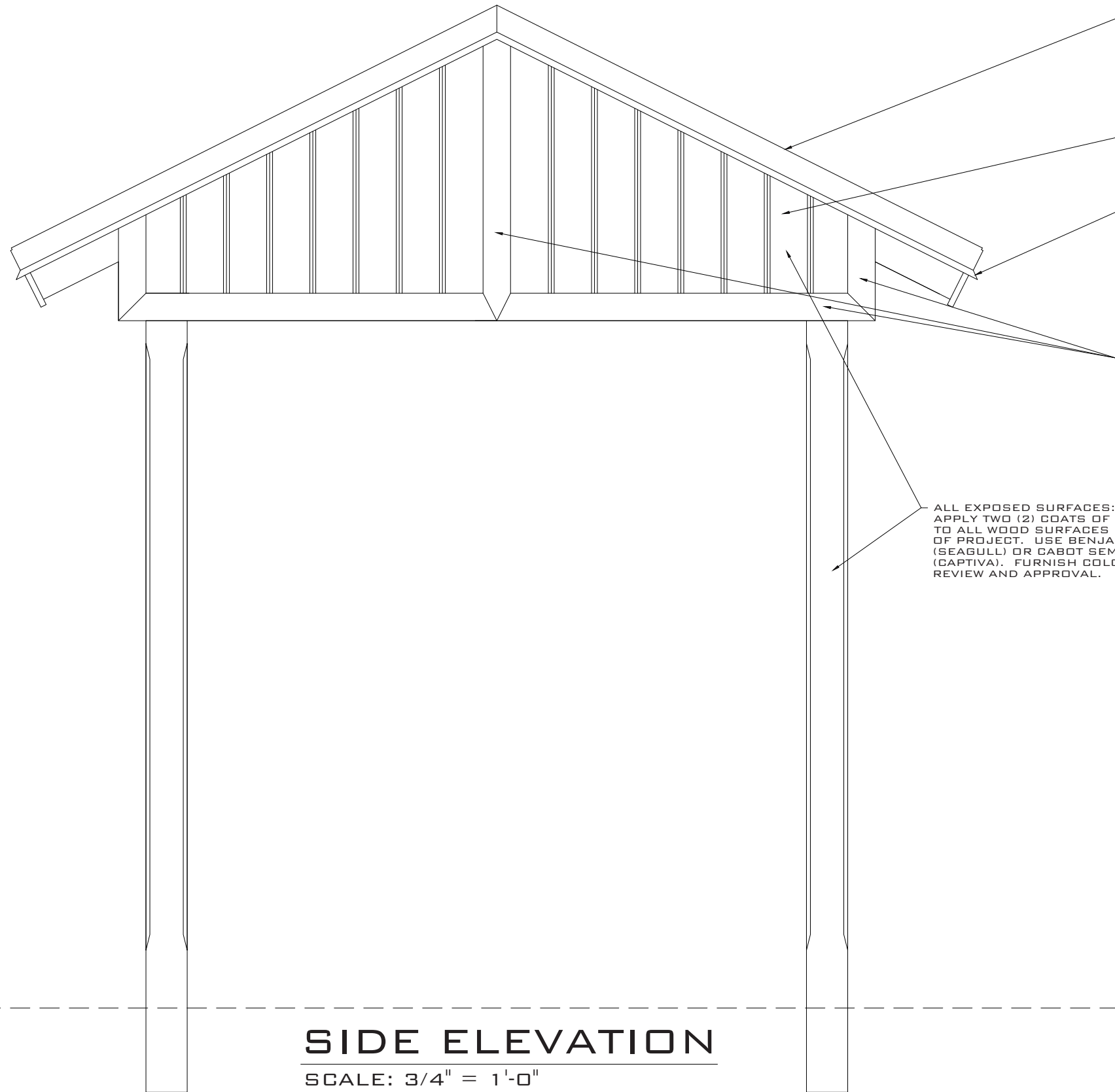
SITE: 2018 S ROOSEVELT BLVD,
KEY WEST, FL 33040

TITLE: SECTION 1-1

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| 1907-20 | S-102 | 1 | |

SECTION 1-1

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



MULTI-COLOR (CITY APPROVED COLOR FROM THE COLOR PALLET PROVIDED BY THE CONTRACTOR IN FORM OF SUBMITTAL, DIFFERENT COLORS MAY BE SELECTED FOR EACH ROOF)
 GALVALUME 5V-CRIMP METAL ROOFING OVER UNDERLAYMENT INSTALLED PER MIAMI-DADE NOA (INSURE ROOFING SCREWS DO NOT PENETRATE FINISHED T&G DECK BELOW) USE STAINLESS STEEL SCREWS ONLY

5/4X6 PT TONGUE AND GROOVE WOOD SIDING W/ (3) #10 3-1/2" STAINLESS STEEL SCREWS @ EACH SUPPORT

DRIP EDGE GALVALUME FLASHING

2X4 PT SP#1 TRIM BOARDS WOOD DECK W/ (2) #8 3" STAINLESS STEEL SCREWS @ 6" O.C. RECESS COVER EXPOSED BOLTS AND PLATES

ALL EXPOSED SURFACES:
 APPLY TWO (2) COATS OF SEMI TRANSPARENT STAIN TO ALL WOOD SURFACES 2 MONTHS AFTER COMPLETION OF PROJECT. USE BENJAMIN MOORE ARBORCOAT (SEAGULL) OR CABOT SEMI-TRANSPARENT STAIN (CAPTIVA). FURNISH COLOR SAMPLE SUBMITTAL TO CITY REVIEW AND APPROVAL.

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

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PROJECT: SMATHERS BEACH
 PAVILIONS

SITE: 2018 S ROOSEVELT BLVD,
 KEY WEST, FL 33040

TITLE: SIDE ELEVATION

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| 1907-20 | S-103 | 1 | |

(2) 1/2" DIA. 4" 316SS LAG SCREWS AS SHOWN, PRE-DRILL 3/8" DIA. GUIDE-HOLES TO AVOID SPLITTING

DRIP EDGE GALVALUME FLASHING

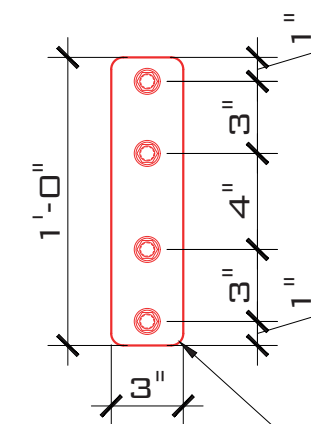
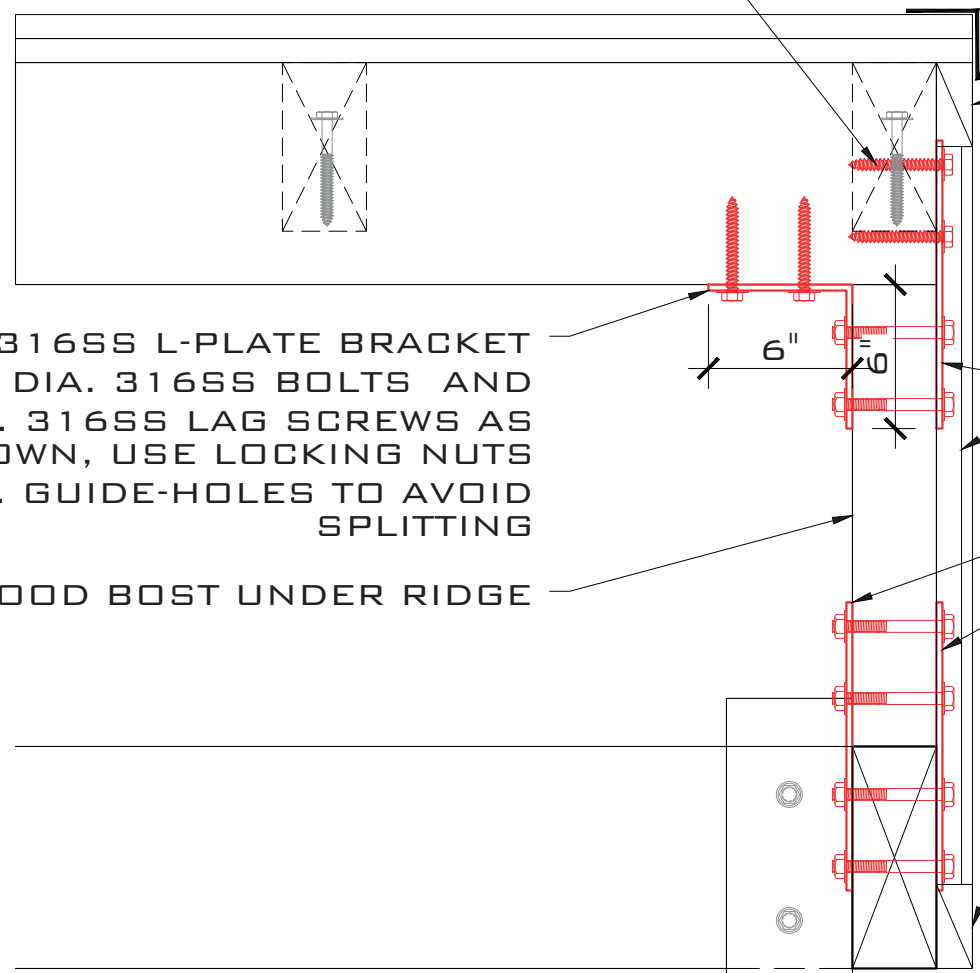
2X4 PT SP#1 TRIM BOARDS WOOD DECK W/ (2) #8 3" STAINLESS STEEL SCREWS @ 6" O.C. RECESS COVER EXPOSED BOLTS AND PLATES

5/4X6 PT TONGUE AND GROOVE WOOD SIDING W/ (3) #10 3-1/2" STAINLESS STEEL SCREWS @ EACH SUPPORT

CUSTOM 1/4" 316SS PLATE BRACKET 3"x12" W/ (4) 1/2" DIA. 316SS BOLTS AS SHOWN, USE LOCKING NUTS

CUSTOM 1/4" 316SS L-PLATE BRACKET 3"x12" W/ (2) 1/2" DIA. 316SS BOLTS AND (2) 1/2" DIA. 316SS LAG SCREWS AS SHOWN, USE LOCKING NUTS PRE-DRILL 3/8" DIA. GUIDE-HOLES TO AVOID SPLITTING

4X4 PT SP#1 WOOD BOST UNDER RIDGE



ROUNDED CORNERS AND EASED EDGES FOR ALL CUSTOM BRACKETS

SECTION 2-2

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

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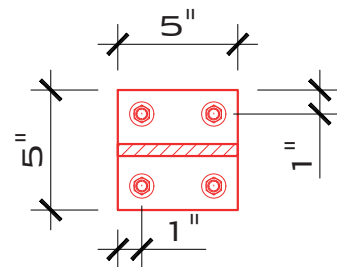
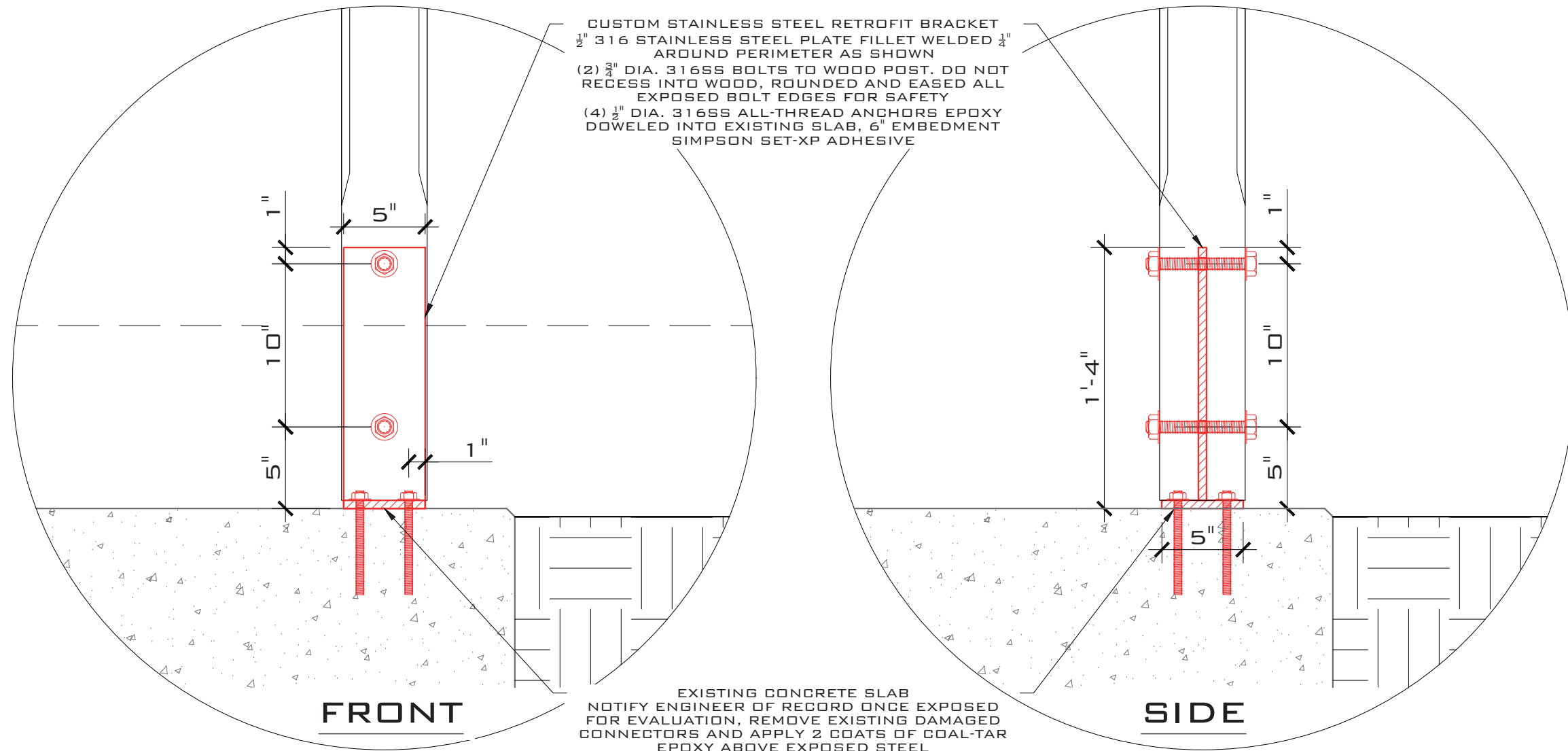
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PROJECT: SMATHERS BEACH
PAVILIONS

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TITLE: SECTION 2-2

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TOP

DETAIL "A"

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