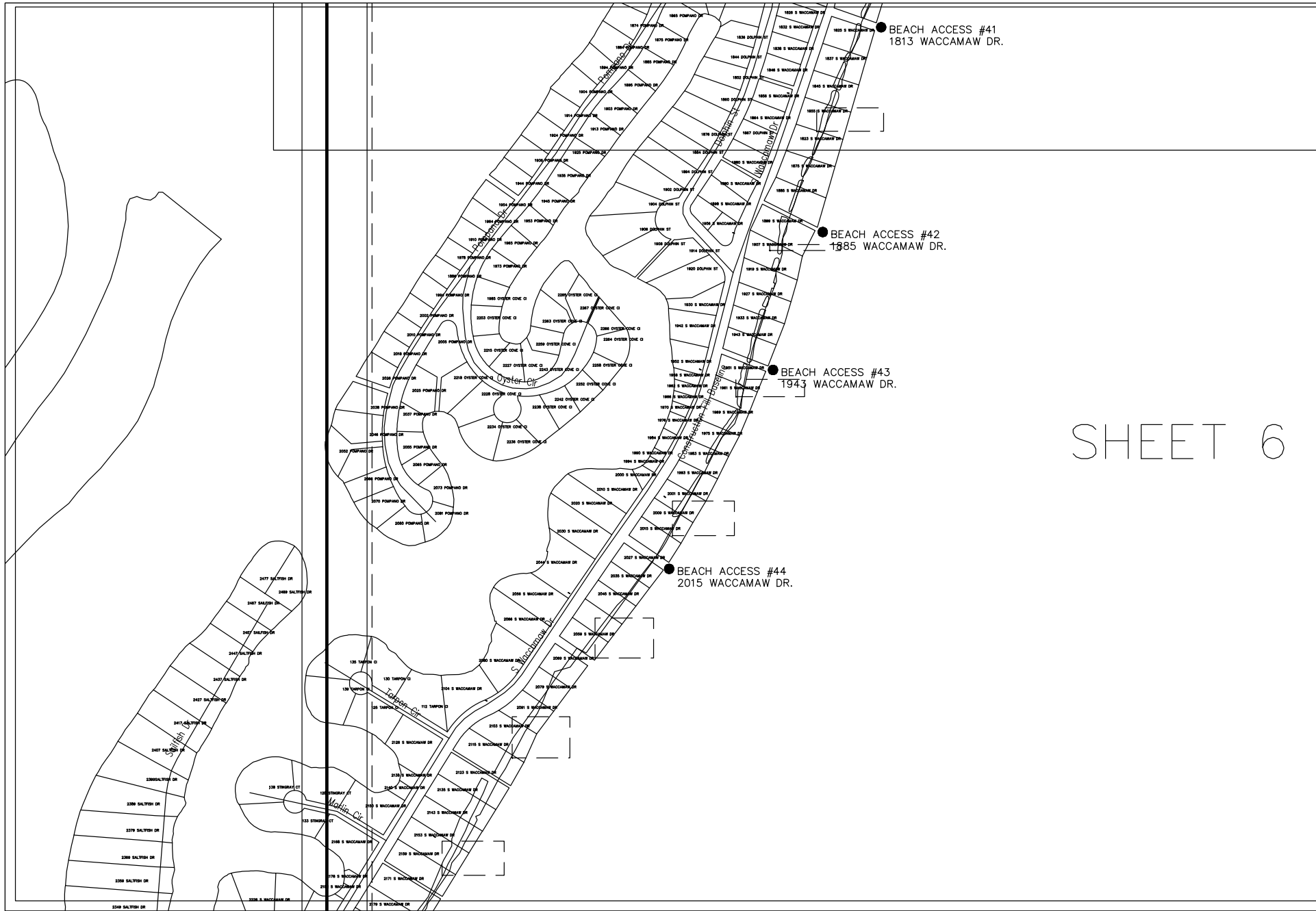


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SHEET 6



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PROJECT:  
BEACH ACCESS LOCATIONS  
GEORGETOWN COUNTY, SOUTH CAROLINA

SCALE: 1"=300'

DESIGNED BY: ASB

DRAWN BY: MPM

DATE: 11/8/2016

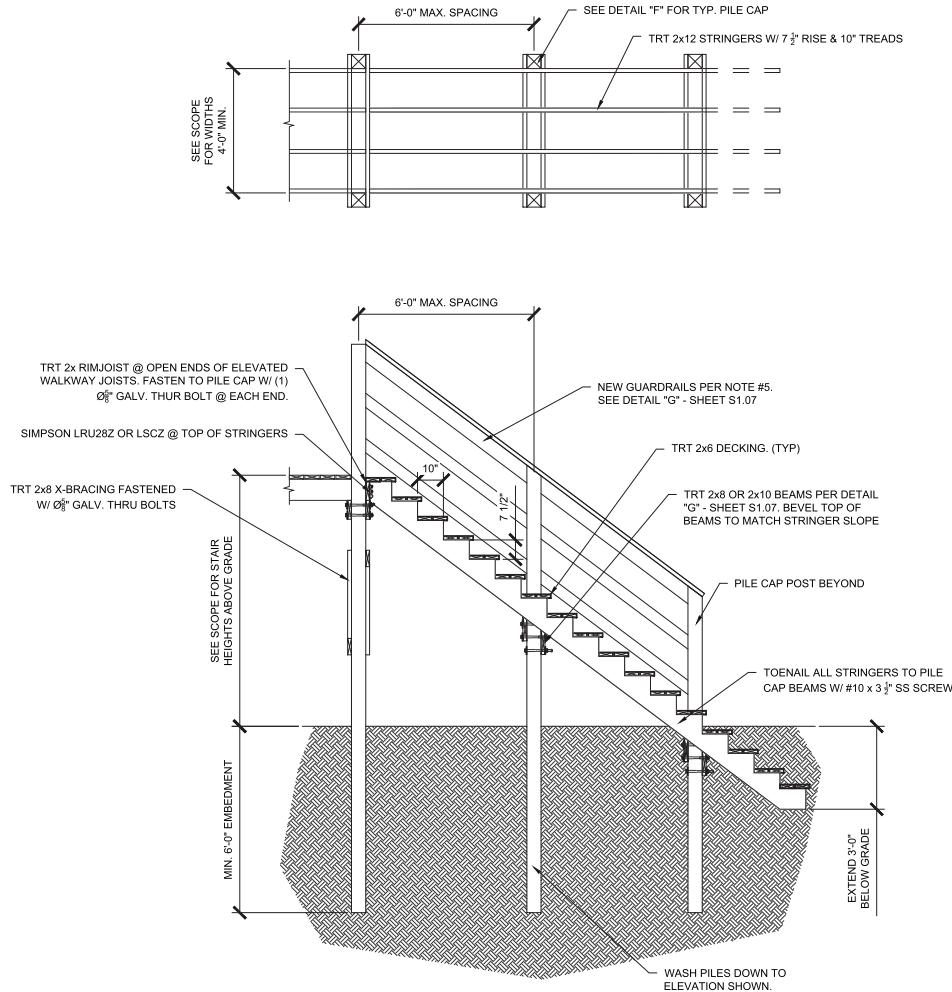
GARDEN CITY  
BEACH

6

SHEET NO.



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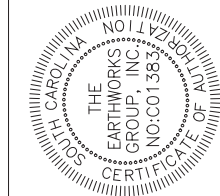
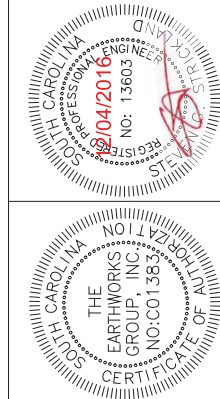
B STAIRS TO GRADE + PILE CAPS  
S1.02 SCALE: 1/4" = 1'-0"

NOTE: USE DETAIL "H" - SHEET S1.08 AT LOCATIONS WHERE EXISTING WALKWAY IS TEN (10) FEET OR MORE ABOVE EXISTING BEACH.

- GENERAL NOTES:
- 1.) ALL TIMBER TO BE USED SHALL BE PRESSURE TREATED ACCORDING TO SHEET S3.01. NO CREOSOTE-TREATED MATERIALS SHALL BE USED.
  - 2.) ALL FASTENERS SHALL BE STAINLESS STEEL, U.N.O.
  - 3.) STAIRS TO GRADE SHALL BE EXTENDED 3'-0" VERTICALLY & BURIED BELOW GRADE.
  - 4.) NEW PILE CAPS TO BE INSTALLED SHALL BE SPACED 8'-0" O.C. MAXIMUM FOR WALKWAYS & 6'-0" O.C. MAXIMUM FOR STAIRWAYS, UNLESS NOTED OTHERWISE.
  - 5.) WHERE SECTIONS (STAIRS, RAMPS, OR ELEVATED WALKWAYS) ARE REPLACED, NEW GUARDRAILS SHALL BE INSTALLED FOR THE ENTIRETY OF THE NEW LENGTH, EACH SIDE, PER DETAIL "G".

WALKOVER DETAILS  
PUBLIC ACCESSES  
GEORGETOWN COUNTY, SC  
PREPARED FOR  
GEORGETOWN COUNTY  
DETAIL "B" - STAIRS

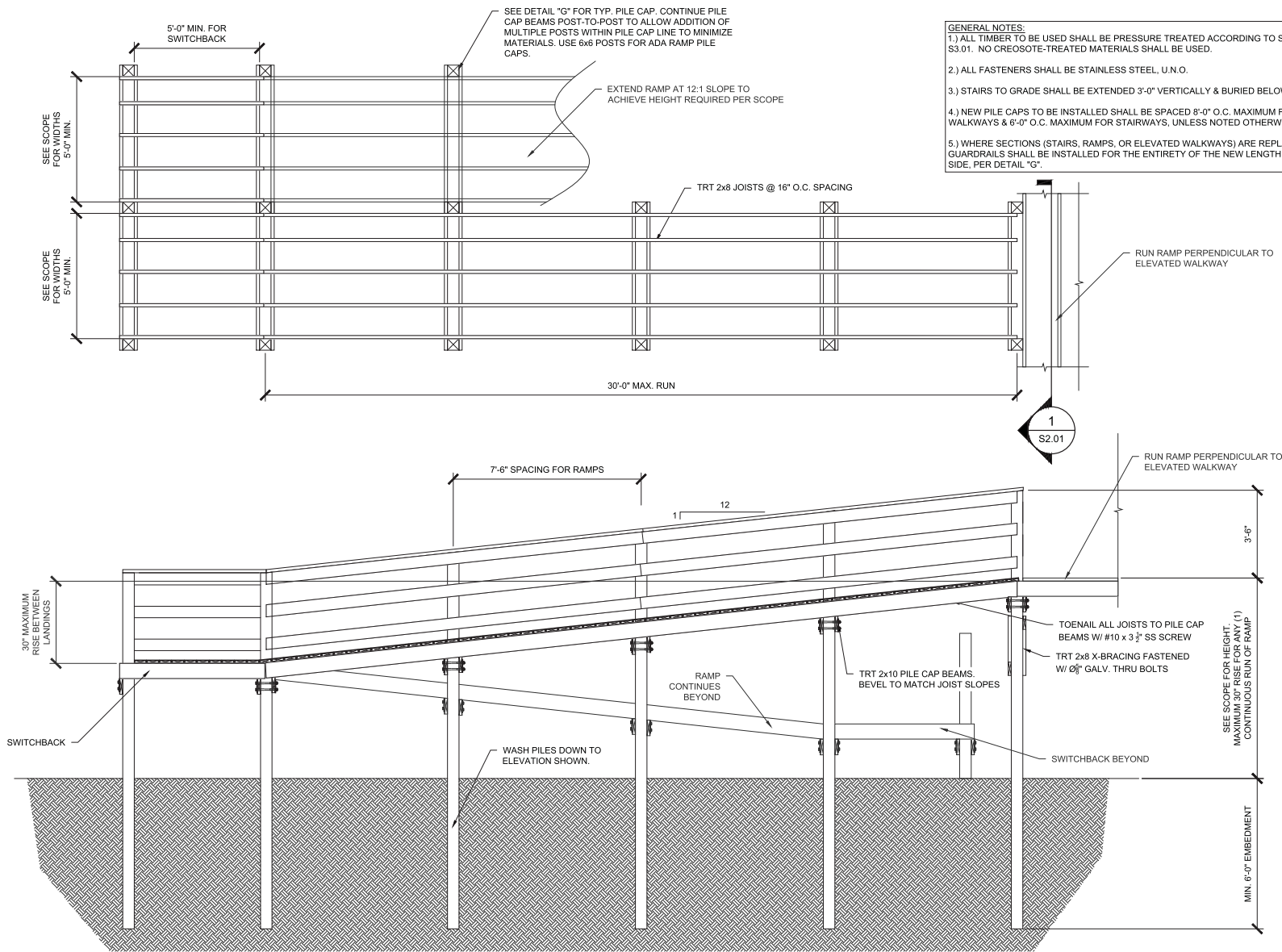
161168.000 STR  
SHEET S1.02 OF 13



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planning and design consultants

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- GENERAL NOTES:
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  - 3.) STAIRS TO GRADE SHALL BE EXTENDED 3'-0" VERTICALLY & BURIED BELOW GRADE.
  - 4.) NEW PILE CAPS TO BE INSTALLED SHALL BE SPACED 8'-0" O.C. MAXIMUM FOR WALKWAYS & 6'-0" O.C. MAXIMUM FOR STAIRWAYS, UNLESS NOTED OTHERWISE.
  - 5.) WHERE SECTIONS (STAIRS, RAMPS, OR ELEVATED WALKWAYS) ARE REPLACED, NEW GUARDRAILS SHALL BE INSTALLED FOR THE ENTIRETY OF THE NEW LENGTH, EACH SIDE, PER DETAIL "G".

J ACCESSIBLE RAMP  
S1.10 SCALE: 1/4" = 1'-0"

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REGISTERED PROFESSIONAL ENGINEER  
SOUTH CAROLINA  
EXPIRATION DATE: 6/30/2018  
NO: 13603

CERTIFICATE OF AUTHORITY  
THE EARTHWORKS GROUP, INC.  
NO: CO1383

WALKOVER DETAILS  
PUBLIC ACCESSES  
GEORGETOWN COUNTY, SC  
PREPARED FOR  
GEORGETOWN COUNTY  
DETAIL "J" - ACCESSIBLE RAMPS

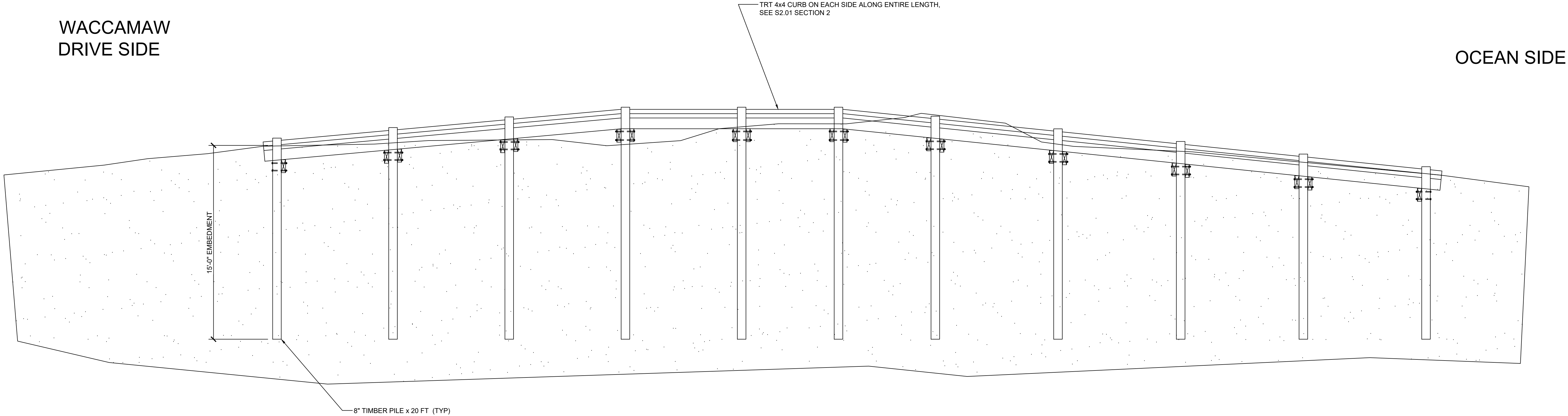
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SHEET S1.10 OF 13

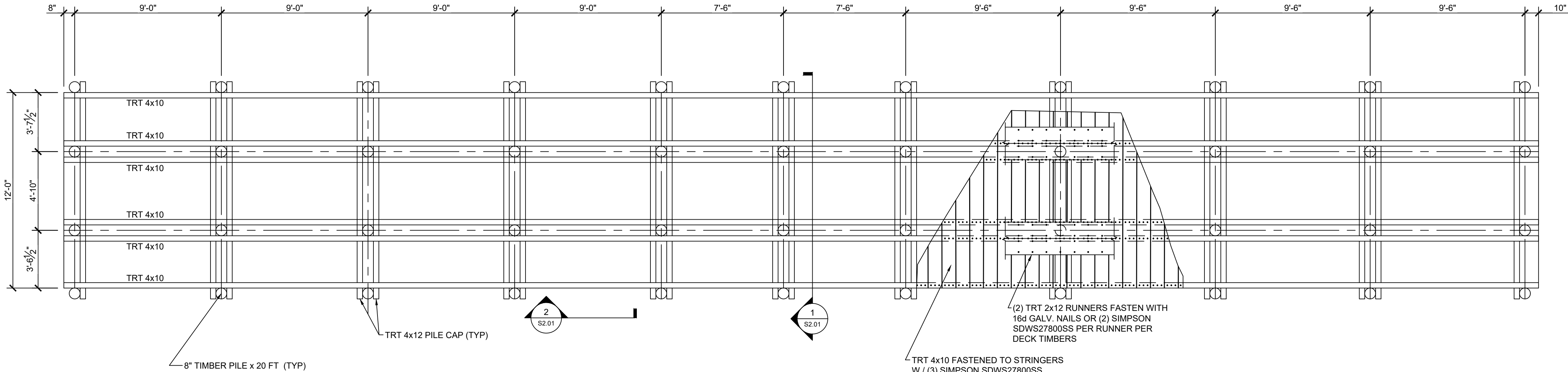
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DRIVEOVER ELEVATION  
SCALE: 1/4"=1'-0"



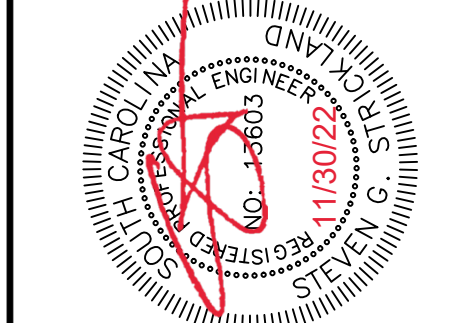
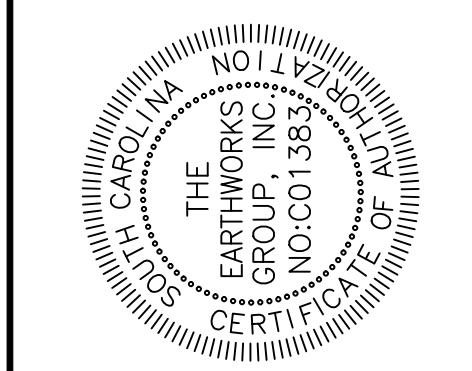
DRIVEOVER PLAN  
SCALE: 1/4"=1'-0"

S1.01

PROJECT #:	221257.000
DATE:	11/22/2022
SCALE:	AS NOTED
DESIGNED BY:	SGS
DRAWN BY:	RMM
CHECKED BY:	SGS

GEORGETOWN COUNTY	
DRIVEOVERS	
DRIVEOVER STRUCTURE	
PREPARED FOR:	ARC INC 1711 BURGESS ROAD MURRELLS INLET, SC
PROJECT LOCATION:	BEACH DRIVE OVER STRUCTURE GEORGETOWN, SC

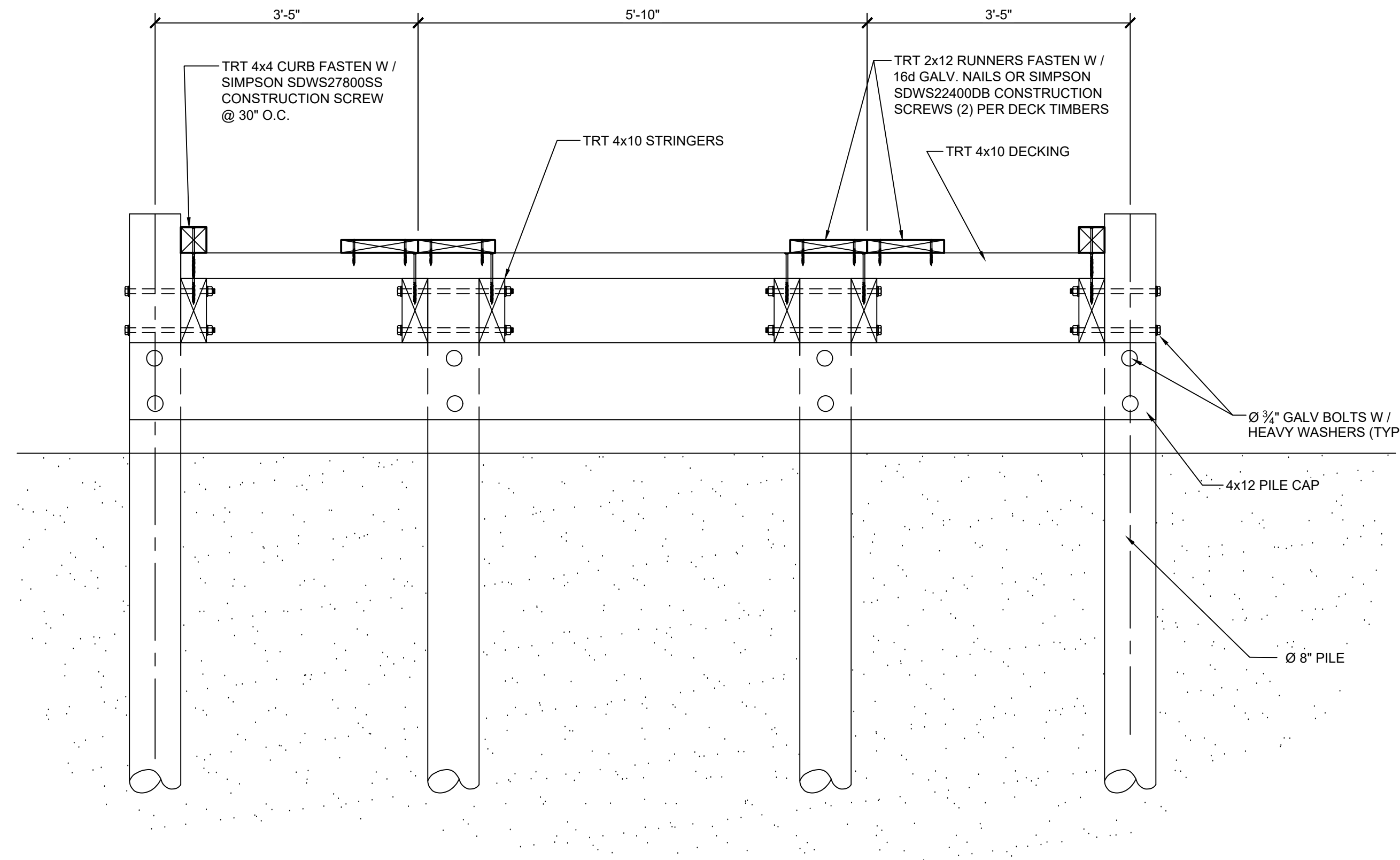
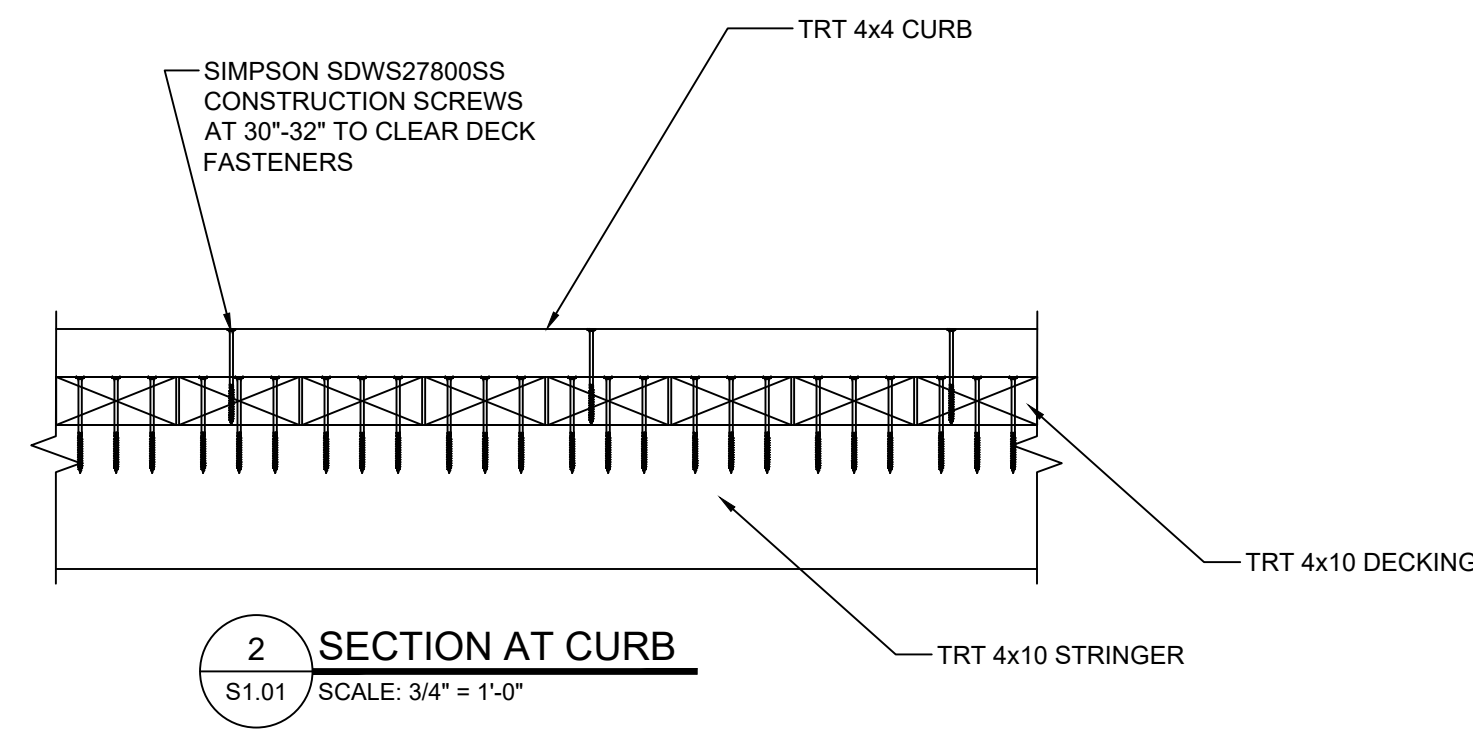
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NO.	DATE	DESCRIPTION
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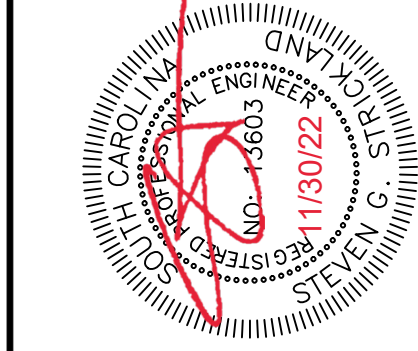
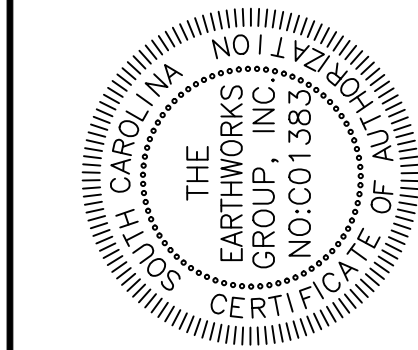
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1 SECTION THRU DRIVEOVER  
S1.01 SCALE: 3/4" = 1'-0"

PROJECT #:		221297.000	
DATE:		11/22/2022	
SCALE:		AS NOTED	
DESIGNED BY:		SGS	
DRAWN BY:		RMM	
CHECKED BY:		SGS	
GEORGETOWN COUNTY DRIVEOVERS			
STRUCTURAL DETAILS			
PREPARED FOR: ARC INC. 1711 BURGESS ROAD MURRELLS INLET, SC			
PROJECT LOCATION: BEACH DRIVE OVER STRUCTURE GEORGETOWN, SC			
		REVISION SCHEDULE	
NO.	DATE	DESCRIPTION	BY
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# S2.01



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[illegible]



STRUCTURAL NOTES

GOVERNING CODE:				2018 INTERNATIONAL BUILDING CODE WITH SOUTH CAROLINA AMENDMENTS LOADS ARE IN ACCORDANCE WITH ASCE 7-16			
1. RISK CATEGORY:		II	5.6. INTERNAL PRESSURE COEFFICIENTS (GC <sub>3</sub> ):				
1.1. SNOW IMPORTANCE FACTOR (I <sub>s</sub> )	1.00		5.6.1. ENCLOSED STRUCTURE:		± 0.18		
1.2. ICE IMPORTANCE FACTOR - THICKNESS (I <sub>i</sub> )	1.00		5.6.2. PARTIALLY ENCLOSED STRUCTURE:		± 0.55		
1.3. ICE IMPORTANCE FACTOR - WIND (I <sub>w</sub> )	1.00		5.6.3. OPEN STRUCTURE:		± 0.00		
1.4. SEISMIC IMPORTANCE FACTOR (I <sub>s</sub> )	1.00						
2. DEAD LOADS		PER MATERIAL WEIGHTS	6. SEISMIC LOAD INFORMATION				
			6.1. BASIC PARAMETERS				
			6.1.1. MCES <sub>g</sub> GROUND MOTION (S <sub>g</sub> )		0.574		
			6.1.2. MCES <sub>g</sub> GROUND MOTION (S <sub>1</sub> )		0.201		
			6.1.3. SEISMIC DESIGN VALUE @ 0.2s SA (S <sub>DS</sub> )		0.513		
			6.1.4. SEISMIC DESIGN VALUE @ 0.1s SA (S <sub>D1</sub> )		0.267		
			6.2. SITE CLASS:		D (Stiff Soils)		
			6.3. SEISMIC DESIGN CATEGORY:		SDC D		
			6.4. BASIC FORCE RESISTING SYSTEM:				
			MOMENT-RESISTING FRAME SYSTEMS				
			6.4.1. RESPONSE MODIFICATION FACTOR (R):		3.25		
			6.4.2. SEISMIC RESPONSE COEFFICIENT (C <sub>s</sub> ):		0.16		
			C <sub>s</sub> = S <sub>DS</sub> / (R / I <sub>e</sub> )				
			7. GEOTECHNICAL INFORMATION				
			7.1. SOIL BEARING CAPACITY:		2,000 PSF (PER TABLE 1806.2)		
			8. FLOOD DESIGN DATA				
			8.1. FLOOD ZONE		X-ZONE		
			9. RAIN LOAD				
			9.1. RAIN INTENSITY - 100 YEAR, 1 HOUR (I):		4.00 IN/HR		
			5. WIND LOADS				
			5.1. BASIC WIND SPEEDS				
			5.1.1. V <sub>ULT</sub> :		150 MPH		
			5.1.2. V <sub>ASD</sub> :		116 MPH		
			5.2. WIND EXPOSURE:		EXPOSURE B		
			5.3. MEAN ROOF HEIGHT:		< 30 FT		
			5.4. MAIN WIND FORCE RESISTING PRESSURES (PSF)				
			ROOF: -51.0 (MAX UPLIFT) & +18.5/-36.4 (OVERTURNING)				
			WALL: +36.6 (NET WINDWARD & LEeward)				
			5.5. COMPONENT & CLADDING PRESSURES (PSF)				
			ROOF: +22.2/-61.0 (ZONE 3) & +22.2/-24.0 (ZONE 1)				
			WALL: +24.0/-26.0 (ZONE 4) & +24.3/-32.0 (ZONE 5)				

GENERAL

- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCE, AND TO ENSURE THE STABILITY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS, DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY BRACING OR TIEDOWNS THAT MIGHT BE NECESSARY. SUCH MATERIAL IS NOT SHOWN ON THE DRAWINGS. IF APPLIED, THEY SHALL BE REMOVED AS CONDITIONS PERMIT. THE ENGINEER TAKES NO RESPONSIBILITY FOR CONSTRUCTION MEANS AND METHODS OR JOB SITE SAFETY DURING CONSTRUCTION. PROCESSING AND/OR APPROVING SUBMITTALS MADE BY THE CONTRACTOR WHICH MAY CONTAIN INFORMATION RELATED TO CONSTRUCTION METHODS OR SAFETY ISSUES, OR PARTICIPATION IN MEETINGS WHERE SUCH ISSUES MIGHT BE DISCUSSED, SHALL NOT BE CONSTRUED AS VOLUNTARY ASSUMPTION BY THE ENGINEER OF ANY RESPONSIBILITY FOR SAFETY PROCEDURES.
- IT IS SOLELY THE RESPONSIBILITY OF EACH CONTRACTOR TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION. THE ENGINEER DOES NOT SUPERVISE, CONSTRUCTION UNLESS CONTRACTED TO DO SO. THE CONTRACTOR IS RESPONSIBLE FOR LIMITING THE AMOUNT OF CONSTRUCTION LOAD IMPOSED UPON STRUCTURAL FRAMING. CONSTRUCTION LOADS SHALL NOT EXCEED THE DESIGN CAPACITY OF THE FRAMING AT THE TIME THE LOADS ARE IMPOSED.
- EQUIPMENT FRAMING LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO HVAC, PLUMBING, OR ELECTRICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL COORDINATE THIS INFORMATION WITH THE INVOLVED TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN THESE REQUIREMENTS TO BE BORNE BY THE APPROPRIATE CONTRACTOR.
- SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THESE STRUCTURAL NOTES, THE SPECIFICATIONS, OR WITH EACH OTHER, THE STRICTEST PROVISION SHALL GOVERN. DO NOT SCALE THESE DRAWINGS. USE DIMENSIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS WITH ARCHITECTURAL FLOOR PLANS PRIOR TO CONSTRUCTION. ARCHITECTURAL FLOOR PLANS SHALL GOVERN DIMENSIONS, AND ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. DO NOT SCALE DRAWINGS.
- FIRST FLOOR WINDOWS AND DOORS SHALL HAVE A RATING OF **DP55**. GARAGE DOORS TO HAVE A RATING OF **DP50**. SECOND FLOOR WINDOWS SHALL HAVE A RATING OF **DP55**.
- NOTE ON TREATED LUMBER CONNECTIONS - ALL NAILS, BOLTS, SCREWS, AND CONNECTORS THAT MAY COME INTO CONTACT WITH TREATED LUMBER WILL BE HOT DIPPED GALVANIZED (HDG), STAINLESS STEEL (SS), OR OTHER MATERIALS APPROVED BY THE MANUFACTURE TO MINIMIZE CORROSION CAUSED BY ACQ TREATMENT CHEMICALS.
- SOIL LOAD BEARING CAPACITY FOR SANDS, SILTY SANDS AND CLAYEY SAND ARE PRESUMED TO BE 2,000 POUNDS PER SQUARE FOOT FOR DESIGN PURPOSES. SOIL LOAD BEARING CAPACITY FOR CLAYS AND SILTS (SL, ML, MH, AND CH) ARE PRESUMED TO BE 1,500 POUNDS PER SQUARE FOOT FOR DESIGN PURPOSES.
- SHOULD A CONFLICT OCCUR BETWEEN THESE DRAWINGS AND THE AFOREMENTIONED CODE REFERENCES, THE MORE STRINGENT SHALL GOVERN.

REINFORCED CONCRETE

- MATERIALS:
  - SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI 318-14 "SPECIFICATIONS FOR STRUCTURAL CONCRETE"
  - STRUCTURAL CONCRETE:

LOCATION	F <sub>c</sub> (PSI)
FOOTINGS	3,000
MONOLITHIC SLABS ON GRADE & ALL INTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	3,500
RAISED STEMWALL SLABS & CONCRETE ON-GRADE, PIERS	3,000
BACKFILL BELOW FOOTINGS (MUD MAT)	2,000
ALL EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	3,000
- ALL DEFORMED REINFORCING BARS: F<sub>y</sub> = 60,000 ASTM A-615 GRADE 60
- MIXES: ALL CONCRETE MIXES SHALL BE DESIGNED BY THE SUPPLIER TO MEET THE REQUIREMENTS SET FORTH HEREIN.
  - d.1. SLUMP: MAXIMUM ALLOWABLE SLUMP FOR CONCRETE SHALL BE 4", UNLESS OTHERWISE NOTED OR APPROVED. IF HIGHER SLUMP IS DESIRED TO INCREASE WORKABILITY, CONTRACTOR SHALL CONSULT WITH CONCRETE SUPPLIER ABOUT USING A CONCRETE ADDITIVE THAT WILL INCREASE SLUMP WITHOUT INCREASING WATER/CEMENT RATIO OF THE CONCRETE. THE CONTRACTOR SHALL VERIFY THAT ANY CONCRETE ADDITIVES WILL NOT HAVE ANY DETRIMENTAL EFFECTS ON EMBEDDED ITEMS, FINISHES INDICATED ON PLANS, OR LIKELY FUTURE FINISHES.
- FINISHING: FINISHING OF CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 (LATEST EDITION).
  - e.1. CURING: BEGINNING IMMEDIATELY AFTER PLACEMENT, CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING, EXCESSIVELY HOT OR COLD TEMPERATURES, AND MECHANICAL INJURY AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD NECESSARY FOR THE HYDRATION OF THE CEMENT AND HARDENING OF THE CONCRETE. THE MATERIALS AND METHODS OF CURING SHALL CONFORM TO ACI 301.
- FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15, IN THE FIELD OFFICE AT ALL TIMES.
- MISCELLANEOUS:
  - a. BENT BARS, IF REQUIRED, SHALL BE BENT PER MANUFACTURER RECOMMENDATIONS, UNLESS OTHERWISE APPROVED.
  - b. PROVIDE SUPPORTS AS REQUIRED TO MAINTAIN ALIGNMENT OF SCHEDULED REINFORCING.
  - c. GROUT UNDER COLUMN BASE PLATES SHALL BE NON-SHRINKING TYPE. THE USE OF LEVELING PLATES AT COLUMN BASES IS PROHIBITED. GROUT BELOW BEARING PLATES, SETTING PLATES AND COLUMN BASE PLATES IS TO BE INSTALLED ONLY AFTER THE STEEL IS PLUMBED.
- SLABS:
  - a. CONCRETE SLABS ON GRADE SHALL BE CONSTRUCTED IN ACCORDANCE WITH ACI 302.1R-96 "GUIDE FOR CONCRETE".
  - b. CONTROL JOINTS SHALL BE SPACED IN INTERIOR SLABS ON GRADE AT A MAXIMUM OF 20 FEET ON CENTER AND IN EXTERIOR SLABS ON GRADE AT A MAXIMUM OF 10 FEET ON CENTER, UNLESS OTHERWISE NOTED.
  - c. CONTROL JOINTS SHALL BE PRODUCED USING CONVENTIONAL PROCESSES WITHIN 4 TO 12 HOURS AFTER THE SLAB HAS BEEN FINISHED. REINFORCING STEEL SHALL NOT EXTEND THROUGH THE CONTROL JOINT.

- d. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER. CONSTRUCTION JOINTS ARE TO BE KEVED. KEYWAYS SHALL BE 1-1/2 INCHES DEEP x 1/3 MEMBER THICKNESS.
- e. PROVIDE 6 MIL POLYETHYLENE VAPOR BARRIER BETWEEN SUBGRADE AND CONCRETE SLAB.
- f. TREAT SOIL FOR TERMITES PRIOR TO PLACEMENT OF CONCRETE.
- g. PREPARE SITE BY REMOVING ORGANIC/EXPANSIVE SOILS AND COMPACTING TO 95% PROCTOR DRY DENSITY.
- h. SLAB FINISHES:
  - h.1. ALL OFFICE SPACES, RETAIL, RESIDENTIAL AND SIMILAR SLABS SHALL HAVE MACHINE FINISH WITH 1/8" PER 10'-0" TOLERANCE.
  - h.2. ALL EXTERIOR, WET SURFACE, DRIVEWAYS, SIDEWALKS AND SIMILAR SLABS SHALL BE FINISHED WITH ROUGH NON-SKID SURFACE (BROOM FINISH). BRUSH LINES IN THE FINISH SHALL BE PARALLEL TO THE DIRECTION OF SLOPE.
- i. THE CONCRETE SLAB ON GRADE HAS BEEN DESIGNED USING A SUBGRADE MODULUS OF K=250 PCI AND A DESIGN LOADING OF 2,000 PSF. THE STRUCTURAL ENGINEER OF RECORD IS NOT RESPONSIBLE FOR DIFFERENTIAL SETTLEMENT, SLAB CRACKING OR OTHER FUTURE DEFECTS RESULTING FROM UNREPORTED CONDITIONS MITIGATING THE ABOVE ASSUMPTIONS.
- j. REINFORCEMENT FOR SLAB ON GRADE SHALL BE PLACED AT A LOCATION BETWEEN THE CENTER AND UPPER THIRD OF THE SLAB.
- OPENINGS:
  - a. OPENINGS SHOWN ARE FOR BIDDING PURPOSES ONLY. COORDINATE THEIR EXACT SIZES AND LOCATIONS WITH HVAC, PLUMBING, AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH WORK.
  - b. IF ANY OPENING NOT SHOWN ON THE PLANS IS REQUIRED, SECURE APPROVAL OF THE STRUCTURAL ENGINEER BEFORE PROCEEDING
  - c. PROVIDE TWO #5 BARS AROUND ALL SLAB OPENINGS, EXTENDING 2 FEET BEYOND OPENING IN EVER DIRECTION, UNLESS NOTED OTHERWISE. OPENINGS NOT EXCEEDING 16 INCHES x 16 INCHES MAY BE SLEEVED AS REQUIRED BY WORKING THE REINFORCING STEEL AROUND THEM.
- FOOTINGS AND PIERS:
  - a. INSTALL DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING STEEL.
  - b. PROVIDE CORNER BARS AT FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING. MINIMUM LAP LENGTH WITH HORIZONTAL REINFORCING STEEL = 35 BAR DIAMETERS.
  - c. BACKFILL AGAINST BOTH SIDES OF WALLS EQUALLY UNTIL THE LOWER ELEVATION IS ATTAINED.
  - d. PROVIDE MINIMUM 18 INCH THICK LAYER OF GRANULAR BACKFILL FULL HEIGHT OF ALL FOUNDATION WALLS.
  - e. CAST IN CONTINUOUS DOVE TAIL ANCHOR SLOTS ON VERTICAL SURFACES WHERE MASONRY ABUTS, 16 INCHES ON CENTER FOR PARALLEL MASONRY SURFACES. INSTALL AT CENTERLINE OF MASONRY FOR PERPENDICULAR MASONRY SURFACES.
  - f. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND TRENCHES.
  - g. VENTILATING FOUNDATION WALL OPENINGS SHALL BE WITHIN 3 FEET OF EACH CORNER OF THE BUILDING. AREA OF OPENINGS SHALL BE NOT LESS THAN 1 SQ. FT. FOR EACH 150 SQ. FT. OF UNDER FLOOR SPACE AREA.
- SPLICES: UNLESS OTHERWISE NOTED, MINIMUM LAP SPLICE LENGTHS TO BE AS FOLLOWS:

REINFORCING STEEL	LAP LENGTH
VERTICAL BARS (INCLUDING DOWELS)	30 BAR DIAMETERS
HORIZONTAL BARS IN SLABS & FOOTINGS	30 BAR DIAMETERS
- CONCRETE COVER: UNLESS OTHERWISE NOTED, DETAIL REINFORCING TO PROVIDE CONCRETE COVER AS FOLLOWS:

STEEL LOCATION	CONCRETE COVER
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER:	
#5 BARS AND SMALLER	1-1/2 INCHES
OTHERS	2 INCHES
PILE CAPS	2-1/2 INCHES

C. STRUCTURAL LUMBER

- SPECIFICATIONS: UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION SHALL BE GOVERNED BY THE LATEST EDITION OF THE FOLLOWING:
  - a. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
  - b. U.S. PRODUCT STANDARD PS1
- MATERIALS:
  - a. STRUCTURAL LUMBER (INCLUDING BEARING AND EXTERIOR WALL STUDS): MINIMUM PROPERTIES OF SPRUCE-PINE-FIR #2, ALLOWABLE STRESSES PER THE NATIONAL DESIGN SPECIFICATION SUPPLEMENT, LATEST EDITION, 19% MAXIMUM MOISTURE CONTENT. OTHER ACCEPTABLE SPECIES INCLUDE HEM-FIR, SOUTHERN PINE AND DOUGLAS FIR-LARCH.
  - b. STRUCTURAL SHEATHING (PLYWOOD & OSB):
    - b.1. FOR ROOFS: OSB OR C-D PLUGGED, 5-PLY, EXPOSURE 1, 7/16" THICK.
    - b.2. FOR WALLS: OSB OR C-D PLUGGED, 5-PLY EXPOSURE 1, 7/16" THICK.
    - b.3. FOR WALLS NOT AT SHEAR WALLS: OSB 7/16" THICK WITH PANEL INDEX W24, EXPOSURE 1.
  - c. ALL FRAMING EXPOSED TO THE WEATHER OR IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED IN ACCORDANCE WITH THE AMERICAN WOOD PRESERVERS ASSOCIATION SPECIFICATIONS.
    - c.1. WHERE POSSIBLE, ALL EXPOSED CUTS AND HOLES SHOULD BE COMPLETED BEFORE TREATMENT.
    - c.2. CUTS AND HOLES DUE TO ON-SITE FABRICATION SHALL BE BRUSHED WITH TWO COATS OF COPPER NAPHTHENATE SOLUTION CONTAINING A MINIMUM OF 2% METALLIC COPPER IN SOLUTION (PER AWWA STD. M4).
- CONNECTIONS:
  - a. JOISTS & RAFTERS TO SIDES OF BEAMS: 16 GA. GALVANIZED STANDARD JOIST HANGERS, UNLESS OTHERWISE NOTED.
  - b. RAFTERS AND TRUSSES TO TOPS OF WALLS AND BEAMS: 18 GA. GALVANIZED HURRICANE ANCHORS.
  - c. PLYWOOD TO ROOF TRUSSES OR RAFTERS: NAILED WITH RING-SHANK NAILS. SEE STRUCTURAL WOOD PANEL NOTES BELOW.
    - c.1. PROVIDE PLYWOOD CLIPS AT MID-SPAN OF PLYWOOD BETWEEN SUPPORTS, OR
    - c.2. PROVIDE BLOCKING BETWEEN ROOF FRAMING AT PLYWOOD EDGES AND NAIL WITH EDGE NAILING PATTERN.
  - d. ALL METAL CONNECTIONS SHALL BE SIMPSON OR USP.
  - e. ALL CONNECTORS TO BE INSTALLED PER MANUFACTURER'S INSTRUCTIONS.
  - f. CONTACT ENGINEER WITH QUESTIONS PERTAINING TO HOLD-DOWNS SPECIFIED ON PLANS.
  - g. STUD COLUMNS SHALL BE SECURED WITH TWO ROWS OF 3 INCH 10d NAILS SPACED 24 INCHES ON CENTER, UNLESS OTHERWISE NOTED.
  - h. LOAD VALUES FOR 8d, 10d, 16d AND 20d DESIGNATIONS IN THE FASTENER SCHEDULES THROUGHOUT THESE PLANS REFER TO COMMON WIRE NAILS, UNLESS OTHERWISE NOTED. NAILS SHALL CONFORM TO A RECOGNIZED NATIONAL STANDARD, SUCH AS ASTM F1667, AS PRESCRIBED BY THE MODEL BUILDING CODES.

D. DRIVEN PILES:

THE CONTRACTOR SHALL APPOINT A COMPETENT INSPECTOR QUALIFIED BY EXPERIENCE AND TRAINING. THE INSPECTOR SHALL BE PRESENT AT ALL TIMES DURING PILE DRIVING OPERATIONS AND SHALL INSPECT ALL WORK IN CONNECTION WITH THE INSTALLATION OF THE PILES.

THE INSPECTOR SHALL KEEP THE FOLLOWING RECORDS FOR EACH PILE:

- TYPE OF PILE
  - SIZE OF PILE
  - HAMMER MAKE, TYPE, SIZE, WEIGHT, AND FALL OF RAM
  - RATED BLOWS PER MINUTE AND ENERGY PER BLOW
  - DRIVING RECORD FOR THE FULL LENGTH OF THE PILE; BLOWS PER FT. F. DRIVEN LENGTH BELOW CUTOFF
  - PILE TIP ELEVATION
  - PILE CUTOFF ELEVATION
- THE RECORD SHALL BE KEPT UP-TO-DATE IN A NEAT AND LEGIBLE MANNER AND SHALL BE AVAILABLE FOR REVIEW BY THE ENGINEER. A COPY OF THE RECORD SHALL BE PROVIDED TO THE ENGINEER AT THE COMPLETION OF EACH DAY'S WORK.

QUALITY ASSURANCE:

MANUFACTURER'S CERTIFICATION; SUBMIT THE COPIES OF MANUFACTURE CERTIFICATION THAT THE PILING COMPLIES WITH THE SPECIFIED REQUIREMENTS.

TIMBER PILES PRESERVATIVE TREATMENT: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF THE TREATED WOOD

PRODUCTS. AWWA QCIP QUALITY MARK AWWA ND-1, AWWA ND-4 WILL BE ACCEPTED AS EVIDENCE OF COMPLIANCE WITH

DELIVERY, STORAGE, AND HANDLING, STORE PILES IN ACCORDANCE WITH AWA MA.

PROVIDE STANDARD CLASS B SOUTHERN PINE CLEAN-PEELED PILES CONFORMING TO ASTM D 25. PILES SHALL BE IN ONE PIECE. SPLICES WILL NOT BE PERMITTED. EACH TREATED PILE SHALL BE BRANDED BY THE PRODUCER, IN

ALL PILES SHALL BE A MINIMUM OF 45 FEET LONG. MINIMUM TIP DIAMETER SHALL BE 8 INCHES. MINIMUM BUTT DIAMETER SHALL BE 12 INCHES (MEASURED 3 FEET FROM THE BUTT).

TREAT PILES BY THE FULL-CELL PRESSURE PROCESS IN ACCORDANCE WITH AWWA U1 (COMMODITY SPECIFICATION A, USE CATEGORY 4C) FOR ROUND TIMBER PILES, AWWA U1 ( COMMODITY SPECIFICATION A, USE CATEGORY 4B) FOR SAWN TIMBER PILES, AWWA C3 FOR MARINE PILING.

E. TIMBER POSTS:

REFERENCED STANDARD

THE PUBLICATIONS LISTED BELOW FORM A PART OF THIS SPECIFICATION TO THE EXTENT REFERENCED. THE PUBLICATIONS ARE REFERRED TO IN THE TEXT BY THE BASIC DESIGNATION ONLY.

AWPA U1 1990 PILES, PRESSURE TREATMENT AWWA M4. 1990 CARE OF PRESSURE TREATMENT AWWA M6 1988 BRANDS USED ON FOREST PRODUCTS AWWA MP-4 1988 MARINE PILING PRESSURE TREATED WITH WATERBORNE WATERS

AWPA QCIP 1988 PRESSURE TREATED LUMBER, TIMBERS PLYWOOD CONSTRUCTION POLES, PILES AND SPECIAL PURPOSE USE PRODUCTS  
INSPECTION AND ACCEPTANCE OF PILES ACCEPTANCE WILL BE ON THE BASIC CERTIFICATION, INSPECTION OF MATERIALS PROPOSED TO BE INCORPORATED IN THE WORK, RECEIPT OF, PILE DRIVING RECORDS, AND INSPECTION OF THE COMPLETED PRODUCT.  
POST INSTALLATION FOR WALKWAYS AND STAIRS  
THE CONTRACTOR SHALL AUGER ALL POSTS INTO THE SAND TO THE MINIMUM DEPT SPECIFIED ON THE PLANS. ALL POSTS SHALL BE A MINIMUM OF 16 FEET UNLESS A LONGER LENGTH IS REQUIRED DUE TO DUNE HEIGHT. CONTRACTOR SHALL INSPECT ALL WORK IN CONNECTION WITH THE INSTALLATION OF THE POSTS.

MANUFACTURER'S CERTIFICATION; SUBMIT THE COPIES OF MANUFACTURE CERTIFICATION THAT THE PILING COMPLIES WITH THE SPECIFIED REQUIREMENTS.

QUALITY ASSURANCE:  
TIMBER POST PRESERVATIVE TREATMENT: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE QUALITY OF THE TREATED WOOD PRODUCTS. AWWA QCIP QUALITY MARK AWWA ND-1, AWWA ND-4 WILL BE ACCEPTED AS EVIDENCE OF COMPLIANCE WITH DELIVERY, STORAGE, AND HANDLING, STORE POSTS IN ACCORDANCE WITH AWA MA.  
ALL POSTS SHALL BE A MINIMUM OF 16 FEET LONG.  
TREAT POSTS BY THE FULL-CELL PRESSURE PROCESS IN ACCORDANCE WITH AWWA U1 (COMMODITY SPECIFICATION A, USE CATEGORY 4C) FOR  
TREAT PILES TO A RETENTION RATE OF 2.5 LB. CUJ/ FT.

TREATMENT REQUIREMENTS FOR MARINE CONSTRUCTION:

	FRESH WATER	SALT WATER
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BELOW WATER MEMBERS

SAWN PILES, WALERS, SHEET PILES, CROSS BRACING	2.5 CCA, AWWA UC5A, 5B, 5C & C18	2.5 CCA, AWWA UC5A, 5B, 5C & C18
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SPLASH ZONE MEMBERS

SPLIT PILE CAPS & STRINGERS	0.40 ACQ, 0.21 CA, AWWA UC4C & C2, 0.16 MCA	0.60 ACQ, 0.6 CCA, AWWA UC5A, 5B, 5C & C18 0.24 MCA
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ABOVE WATER MEMBERS

DECKING, HANDRAILS WALLCAPS	0.25 ACQ, 0.10 CA, AWWA UC3B & C2 0.07 MCA	0.40 ACQ, 0.21 CCA, AWWA UC3B & C18 0.16 MCA
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TIMBER STRUCTURE SPECIFICATION NOTES

ALL FACE AND ANCHOR PILES USED IN CONSTRUCTION SHOULD BE SPECIFIED IN ACCORDANCE WITH ASTM D25. PRESERVATIVE TREATMENT SHALL BE TO AWWA STANDARDS C-3 & C-18 (UC4C, 5A, 5B, 5C).

ALL FASTENERS AND TIE RODS SHOULD BE HOT-DIP GALVANIZED PER ASTM A-153 OR BE CORROSION RESISTANT (BITUMASTIC COATED OR 300 SERIES STAINLESS STEEL).

ALL CUTS, HOLES AND INJURIES TO THE SURFACE OF TREATED WOOD SHOULD BE FIELD PROTECTED BY FIELD TREATMENT MEETING AWWA STANDARD M4.

ALL TREATED WOOD PRODUCTS SHOULD BE HANDLED AND FIELD FABRICATED IN ACCORDANCE WITH AWWA STANDARD M4 FOR THE CARE OF PRESERVATIVE TREATED WOOD PRODUCTS.

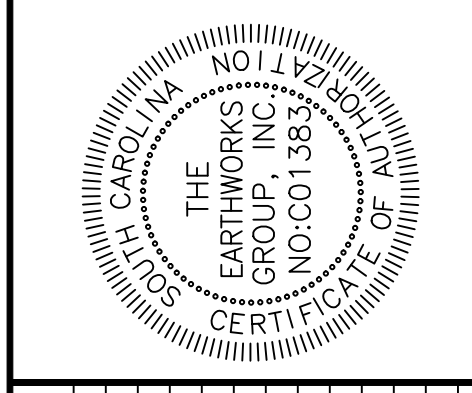
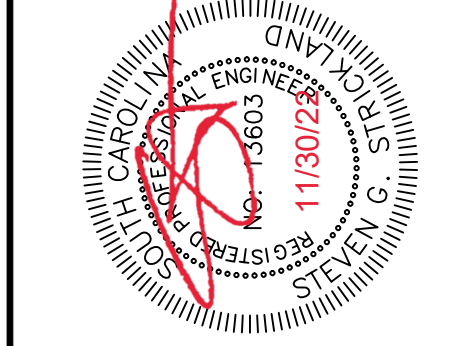
FOR FURTHER INFORMATION ON FRESH AND SALTWATER SPECIFICATIONS, CONSULT THE AWWA BOOK OF STANDARDS AND OTHER PUBLICATIONS.

PLANT INSPECTION:  
THE ENGINEER RESERVES THE RIGHT TO PERFORM PLANT INSPECTION OF THE TREATING PROCESS. PROVIDE THE ENGINEER WITH A MINIMUM 3-WEEK ADVANCE NOTICE, INDICATING LOCATION OF THE INITIAL PRESERVATIVE TREATMENT. ALLOW THE ENGINEER ACCESS TO THE PLANT FOR INSPECTION

TOLERANCES IN AUGURING PILES: AT CUTOFF ELEVATION, BUTT SHALL BE WITHIN 4 INCHES OF THE LOCATION INDICATED. MANIPULATION TO MOVE PILES INTO POSITION WILL BE PERMITTED ONLY WITHIN THE AFOREMENTIONED TOLERANCE TO RETURN THE PILE TO THE DESIGN LOCATION. A VARIATION OF NOT MORE THAN 0.50 INCH PER FOOT OF PILE LENGTH FROM THE REQUIRED ANGLE FOR BATTER PILES WILL BE PERMITTED. REMOVE AND REPLACE WITH NEW PILES THOSE DAMAGED, MISPLACED, DRIVEN BELOW DESIGN CUTOFF, OR DRIVEN OUT OF ALIGNMENT.

EXECUTION  
INSPECT PILES WHEN DELIVERED AND WHEN IN THE LEADS IMMEDIATELY BEFORE AUGURING. CUT PILES AT CUTOFF ELEVATION BY SAWING. CUTOFF ELEVATION FOR PILES SHALL BE A MINIMUM OF 7 FT ABOVE MEAN HIGH WATER.

INSTALLATION OF POSTS  
AUGERING SHALL BE THE PREFERRED METHOD FOR THE INSTALLATION OF VERTICAL POSTS.



REVISION SCHEDULE		BY	DATE	NO.	DESCRIPTION
<PRELIMINARY PLANS>			<DATE>	1	
				2	
				3	
				4	
				5	
				6	
				7	
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				9	
				10	
				11	
				12	

GEORGETOWN COUNTY DRIVEOVERS		STRUCTURAL NOTES	
PROJECT #:	221257/000	PREPARED FOR:	ARC INC 1711 BURGESS ROAD MURRELLS INLET, SC
DATE:	11/22/2022	DESIGNED BY:	SGS
SCALE:	AS NOTED	DRAWN BY:	RMM
		CHECKED BY:	SGS

S3.01





173 Norris Dr



