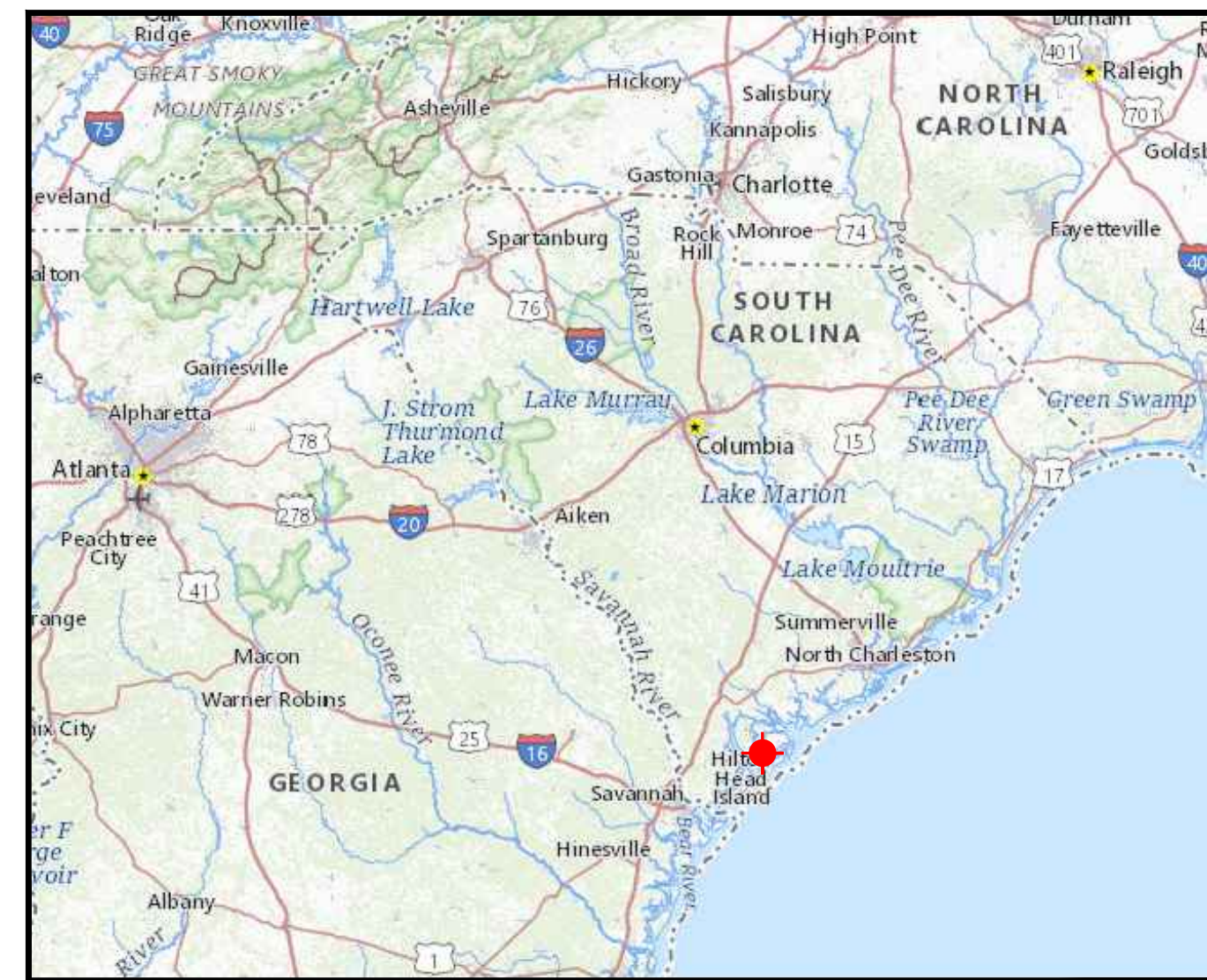


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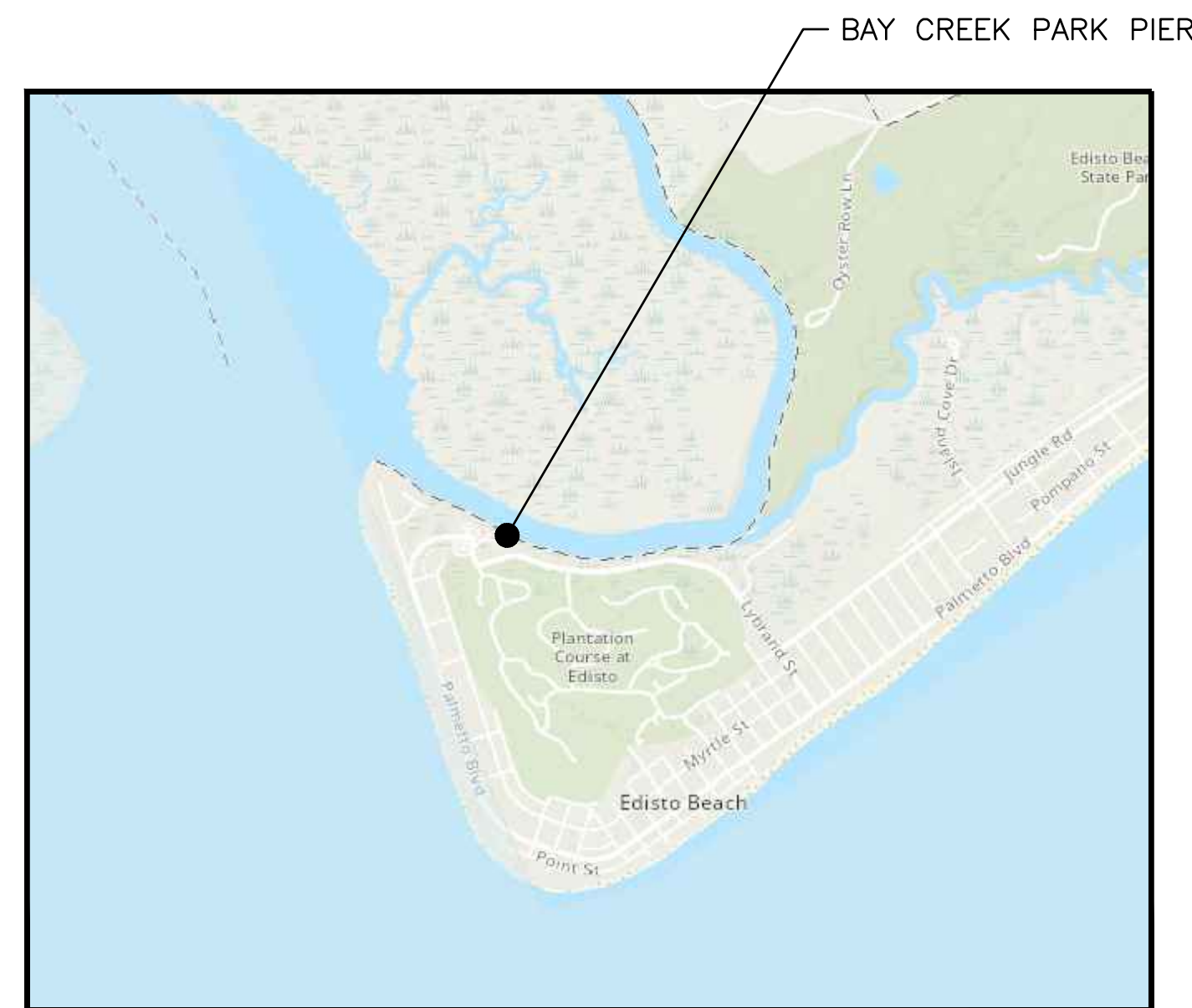
TOWN OF EDISTO BEACH BAY CREEK PARK PIER REPAIRS

EDISTO BEACH, SOUTH CAROLINA



LATITUDE: 32.49371 LONGITUDE: -80.340889

PROJECT LOCATION



PROJECT SITE

PREPARED FOR:



TOWN OF EDISTO BEACH
2414 MURRAY STREET
EDISTO BEACH, SC 29438

PREPARED BY:



GEL ENGINEERING, LLC
2040 SAVAGE ROAD
CHARLESTON, SC 29407

SCHEDULE OF DRAWINGS

SHT NO.	SHEET TITLE
S0.1	COVER SHEET
S1.0	GENERAL NOTES I
S1.1	GENERAL NOTES II
S2.0	EXISTING CONSTRUCTION AT SUBSTRUCTURE
S2.1	EXISTING CONSTRUCTION AT SUPERSTRUCTURE
S2.2	EXISTING CONSTRUCTION AT DECK
S2.3	EXISTING CONSTRUCTION AT EXISTING APPROACH BOARDWALK
S3.0	SUBSTRUCTURE REPAIRS I
S3.1	SUBSTRUCTURE REPAIRS II
S3.2	SUPERSTRUCTURE REPAIRS I
S3.3	SUPERSTRUCTURE REPAIRS II
S3.4	DECK REPAIRS I
S3.5	DECK REPAIRS II
S4.0	PILE PROTECTIONS SYSTEMS
S4.1	DETAILS



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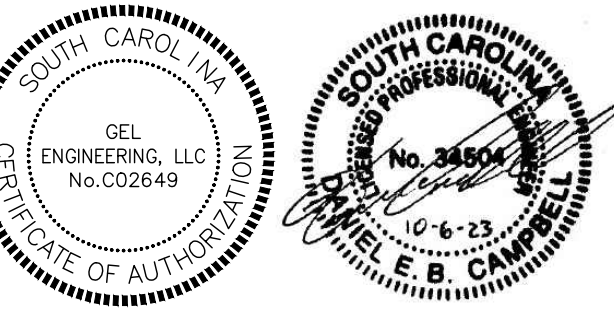
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Description	By	Appr	Date
ISSUED FOR REVIEW	EL	DC	08.15.23
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Client



Town of Edisto Beach
2414 Murray Street
Edisto Beach, SC 29438

Project

3706 Dock Site Road
Edisto Beach, SC 29438

Bay Creek Park
Pier Repairs

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Sheet Title

Cover Sheet

Project No. _____ Drawing No. _____

EDBH00123

Date

10.06.23

Scale

S0.1

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CODES AND DOCUMENTS

- ALL CONSTRUCTION MUST BE PERFORMED IN CONFORMANCE WITH THE BUILDING AND DESIGN CODES REFERENCED WITHIN THESE DOCUMENTS. THE PROJECT DOCUMENTS REFER TO THE FOLLOWING CODES AND STANDARDS, UNLESS OTHERWISE NOTED:

BUILDING CODE

INTERNATIONAL BUILDING CODE 2021 WITH SOUTH CAROLINA MODIFICATIONS

THE FOLLOWING CODES ARE INCLUDED BY REFERENCE:

STRUCTURAL STEEL
 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS (ANSI/AISC 360-16)
 AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)

STRUCTURAL CONCRETE
 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-19)
 AMERICAN CONCRETE INSTITUTE (ACI)

STRUCTURAL TIMBER
 NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION-WITH 2018 NDS SUPPLEMENT (ANSI/AWC NDS-2018)
 AMERICAN WOOD COUNCIL (AWC)

WELDING
 STRUCTURAL WELDING CODE - STEEL (AWS D1.1/D1.1M)
 STRUCTURAL WELDING CODE - ALUMINUM (AWS D1.2/D1.2M)
 STRUCTURAL WELDING CODE - SHEET STEEL (AWS D1.3/D1.3M)
 STRUCTURAL WELDING CODE - REINFORCING STEEL (AWS D1.4/D1.4M)
 STRUCTURAL WELDING CODE - BRIDGE WELDING CODE (AWS D1.5/D1.5M)
 AMERICAN WELDING SOCIETY (AWS)

MASONRY
 BUILDING CODE FOR MASONRY STRUCTURES (TMS 402-2016)
 THE MASONRY SOCIETY (TMS)

- THE STRUCTURAL DRAWINGS AND SPECIFICATIONS ARE ONE PART OF THE CONTRACT DOCUMENTS AND MUST BE USED IN CONJUNCTION WITH THE REMAINING PARTS OF THE CONTRACT DOCUMENTS.
- "DRAWINGS" MEANS THE LATEST STRUCTURAL DESIGN DRAWINGS, UNLESS OTHERWISE NOTED. "SPECIFICATIONS" MEANS THE LATEST PROJECT SPECIFICATIONS, UNLESS OTHERWISE NOTED.
- ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL WHERE CONDITIONS ARE SIMILAR TO THOSE INDICATED BY DETAIL OR DETAIL TITLE OR NOTE.
- ASSUME EQUAL SPACING IF NOT INDICATED ON THE DRAWINGS.
- USE ONLY DIMENSIONS INDICATED ON THE DRAWINGS. DO NOT SCALE DRAWINGS OR USE ANY DIMENSION TAKEN FROM ELECTRONIC DRAWINGS FILES.

DEMOLITION

- THE CONTRACTOR MUST FURNISH ALL LABOR AND MATERIALS FOR SUCCESSFUL COMPLETION OF THIS PROJECT.
- ALL EXISTING CONDITIONS SHOWN ARE FOR REFERENCE ONLY AND ARE TO BE FIELD VERIFIED BY THE CONTRACTOR.
- REMOVED MATERIALS, UNLESS NOTED OTHERWISE, BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS.
- THE CONTRACTOR MUST USE QUALIFIED, EXPERIENCED PERSONNEL FOR REMOVAL AND DEMOLITION OPERATIONS. REMOVAL AND DEMOLITION OPERATIONS SHALL BE PERFORMED IN A CAREFUL AND ORDERLY MANNER TO AVOID HAZARDS TO PERSONS, DAMAGE TO PROPERTY, AND THE SPREADING OF DUST AND FLYING PARTICLES.
- THE EXACT EXTENT OF DEMOLITION TO BE DONE MUST BE VERIFIED AT THE SITE. DETERMINE THE NATURE AND EXTENT OF DEMOLITION THAT WILL BE NECESSARY BY COMPARING THE DRAWINGS WITH THE EXIST CONDITIONS.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE MEANS AND METHODS OF DEMOLITION AND THE SAFETY OF THE EXISTING STRUCTURE.
- NO PORTIONS OF THE STRUCTURE SHALL BE PERMITTED TO FALL NOR SHALL ANY DEBRIS BE DROPPED EXCEPT BY METHODS WHICH WILL INSURE LIFE SAFETY, OTHER INSURANCE, AND COMPLIANCE WITH LOCAL LAWS AND REGULATIONS.
- DO NOT REMOVE MORE OF THE EXISTING STRUCTURE THAN NECESSARY.
- DO NOT DAMAGE, MAR, OR DEFACE THE REMAINING STRUCTURE OR MATERIALS TO BE REUSED.
- THE CONTRACTOR MUST PROVIDE SHORING IN ALL LOCATIONS WHERE EXISTING CONSTRUCTION TO REMAIN WILL BE AFFECTED BY DEMOLITION.

CONTRACTOR RESPONSIBILITIES AND COORDINATION

- THE CONTRACTOR MUST FURNISH ALL LABOR AND MATERIALS FOR SUCCESSFUL COMPLETION OF THIS PROJECT.
- THE SPECIFICATIONS AND STRUCTURAL DRAWINGS REPRESENT THE REQUIRED REPAIR WORK AND DO NOT INDICATE THE METHOD OF DEMOLITION OR CONSTRUCTION, UNLESS OTHERWISE NOTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF DEMOLITION AND SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND REMOVAL OF ALL TEMPORARY BRACING AND CONSTRUCTION SUPPORTS, FOR NEW AND EXISTING STRUCTURES, AS NECESSARY TO COMPLETE THE PROJECT. NO PORTION OF THE PROJECT, WHILE BEING DEMOLISHED, IS INTENDED TO BE STABLE IN THE ABSENCE OF THE CONTRACTOR'S TEMPORARY BRACES AND SUPPORTS. CONTRACTOR MUST RETAIN A STRUCTURAL ENGINEER LICENSED IN THE STATE OF THE PROJECT TO DESIGN ALL TEMPORARY BRACING AND CONSTRUCTION SUPPORTS. SUBMIT ANY DRAWINGS AND/OR CALCULATIONS TO THE OWNER FOR APPROVAL PRIOR TO PERFORMING ANY WORK.
- THE CONTRACTOR MUST VERIFY ALL DIMENSIONS AND ELEVATIONS, NEW AND EXISTING, BY MEASUREMENTS AND SURVEYS AT THE JOB SITE PRIOR TO BEGINNING WORK AND SUBMITTING SHOP DRAWINGS.
- THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO ORDERING REPAIR MATERIALS AND BEGINNING WORK. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF RECORD IMMEDIATELY OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND EXISTING CONDITIONS FOR RESOLUTION PRIOR TO ORDERING REPAIR MATERIALS AND BEGINNING WORK.
- THE CONTRACTOR MUST TAKE ANY AND ALL MEASUREMENTS NECESSARY TO VERIFY CONFORMANCE WITH THE DRAWINGS AND TO PERFORM THE WORK PROPERLY.
- ALL FIELDWORK MUST BE COORDINATED AND CONTINUOUSLY SUPERVISED BY THE CONTRACTOR.
- THE CONTRACTOR MUST MAKE NO DEVIATION FROM THE DRAWINGS WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
- THE CONTRACTOR MUST NOTIFY THE OWNER AND ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DOCUMENTS AND EXISTING CONDITIONS FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK.
- THE CONTRACTOR MUST NOTIFY THE ENGINEER OF RECORD OF ANY DISCREPANCIES BETWEEN THE STRUCTURAL DRAWINGS AND DETAILS, FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK. COMPLY WITH STANDARD CONDITIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE UNTIL THE CONSTRUCTION OF THE STRUCTURE REACHES ITS FINISHED STATE.
- ALL CONSTRUCTION DEBRIS MUST BE REMOVED FROM THE SITE IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES, AND REGULATIONS.
- ANY DAMAGE CAUSED TO THE SITE FACILITIES OR LANDSCAPING DURING CONSTRUCTION ACTIVITIES MUST BE REMEDIATED BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER. DAMAGED GRASSY AREAS MUST BE REMEDIATED WITH SOD; SEEDING IS NOT AN ACCEPTABLE REPAIR.
- PRIOR TO ORDERING REPAIR MATERIALS, THE CONTRACTOR SHALL PERFORM AN UNDERWATER INSPECTION OF THE STRUCTURE TO DETERMINE THE CONDITION OF THE SUBMERGED COMPONENTS TO THE MUD LINE. A REPORT MUST BE PROVIDED TO THE OWNER AND ENGINEER OF RECORD SUMMARIZING THE FINDINGS. BASED ON THE UNDERWATER CONDITION, THE ENGINEER MAY RECOMMEND TO THE OWNER ADDITIONAL STRUCTURAL PILE JACKETS BEYOND THE BASE BID; SEE ALLOWANCES AND BID ALTERNATES BELOW.

BID ALTERNATES

- PROVIDE STRUCTURAL PILE JACKET AT ALL EXISTING PILES PER 2/S4.0.
- REPLACE ALL DECKING WITH COMPOSITE.

ALLOWANCES

THE CONTRACTOR MUST INCLUDE THE FOLLOWING ALLOWANCES IN THE BID:

- 60 LOCATIONS OF MISSING NUTS AND WASHERS AT THE RAILING POSTS, SEE SHEETS S3.4 AND S3.5.
- 420 LF OF STRUCTURAL JACKET REPAIR PER 2/S4.0.
- 5 LOCATIONS OF EPOXY 550 GROUT REPAIR AT THE TOP PORTION OF PILES; SEE S3.0 AND S3.1.

THE CONTRACTOR MUST PROVIDE A UNIT PRICE FOR EACH ALLOWANCE.

STRUCTURAL STEEL CONNECTIONS

- STRUCTURAL STEEL CONNECTION MATERIAL SHALL CONFORM TO THE FOLLOWING STANDARDS AND MATERIAL PROPERTIES:

ANGLES: ASTM A36
 WTS: ASTM A36
 PLATES: ASTM A36
 BOLTS, NUTS, WASHERS: ASTM A325 OR A490
 WELD ELECTRODES: E70XX

- ALL CONNECTIONS, UNLESS INDICATED AS BEING FULLY DESIGNED ON THE STRUCTURAL DRAWINGS, MUST BE DESIGNED AND DETAILED BY AN ENGINEER LICENSED IN THE STATE OF THE PROJECT. THE DESIGN AND DETAILING MUST COMPLY WITH ALL APPLICABLE CODES AND SPECIFICATION SECTIONS.
- ALL SHOP AND FIELD CONNECTIONS MUST BE WELDED. SUBMITTAL FROM CONTRACTOR FOR VARIATIONS TO TYPICAL CONNECTION DETAILS WILL BE CONSIDERED.
- FOR CONNECTION DESIGN AND DETAILING, SET CONNECTION WORK POINT AT INTERSECTION OF MEMBER CENTERLINES UON.
- PROVIDE STIFFENERS, CONTINUITY PLATES, DOUBLER PLATES, OR OTHER NECESSARY ADDITIONAL LOCAL STRENGTHENING MEASURES AS REQUIRED. MEMBER SIZES INDICATED ON DRAWINGS ARE SIZED FOR MEMBER BEHAVIOR AWAY FROM THE CONNECTIONS.
- ALL WELDING MUST BE PERFORMED BY PREQUALIFIED WELDERS, AND MUST CONFORM TO THE REQUIREMENTS OF THE STRUCTURAL WELDING CODE, UNLESS OTHERWISE NOTED.
- ALL WELDING ELECTRODES MUST COMPLY WITH THE REQUIREMENTS OF TABLE 4.1 OF THE STRUCTURAL WELDING CODE, ANSI/AWS D1.1.
- FOR EXPOSED WELDS, PROVIDE WELDING IN CONFORMANCE WITH AWS D1.5.
- WELDS NOT OTHERWISE NOTED ON DRAWINGS MUST BE CONTINUOUS FILLET WELDS. THE MINIMUM SIZE SHALL BE 1/4" OR AS REQUIRED BY THE AISC SPECIFICATIONS, WHICHEVER IS LARGER. THE MINIMUM WELD LENGTH SHALL BE 3".

TIMBER CONSTRUCTION

- ALL LUMBER MUST BE VISUALLY GRADED IN ACCORDANCE WITH CURRENT W.W.P.A. GRADING RULES. ALL DIMENSIONAL LUMBER SHOWN ON PLANS MUST BE S4S SEASONED LUMBER OF THE FOLLOWING GRADES:

1X AND WIDER FRAMING LUMBER	SOUTHERN PINE No. 2
DECKING	SOUTHERN PINE No. 1
- ALL WOOD MEMBERS WERE DESIGNED IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" PRODUCED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE/AMERICAN FOREST AND PAPER ASSOCIATION (ANSI/AWC NDS-2018).
- TREAT ALL TIMBER WITH EITHER MICRONIZED COPPER AZOLE (MCA) OR CHROMATED COPPER ARSENATE (CCA) WITH RETENTION RATES AS SPECIFIED BELOW:

- LUMBER, TIMBERS, AND PLYWOOD

3.1.1. ABOVE GROUND FRAMING	0.25 PCF CCA
3.1.2. DECKING	0.40 PCF MCA
3.1.3. RAILING COMPONENTS	0.40 PCF MCA
3.1.4. GROUND/FRESH WATER CONTACT	0.40 PCF CCA
3.1.5. SALT WATER SPLASH	0.60 PCF CCA
3.1.6. PERMANENT WOOD FOUNDATION	0.60 PCF CCA
3.1.7. SALT WATER IMMERSION	2.50 PCF CCA
- POLES AND PILES

3.2.1. STRUCTURAL POLES	0.60 PCF CCA
3.2.2. FOUNDATION/FRESH WATER	0.80 PCF CCA
3.2.3. SALT WATER IMMERSION	2.50 PCF CCA

- ALL LUMBER DAMAGED OR MARRED DURING CONSTRUCTION ACTIVITIES MUST BE REMOVED AND REPLACED IN-KIND AT NO COST TO THE OWNER.
- ALL CONNECTION HARDWARE MUST BE STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- ALL DECKING MUST BE ATTACHED TO STRINGERS WITH SCREWS; NAILS ARE NOT PERMITTED.
- ALL DIMENSIONS INDICATED ON STRUCTURAL PLANS ARE NOMINAL, UNLESS OTHERWISE NOTED.



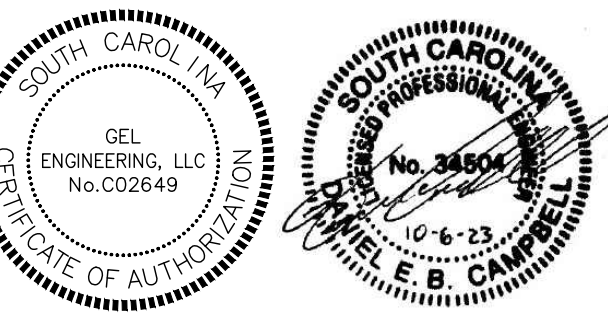
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Description	By	Appr	Date
ISSUED FOR REVIEW	EL	DC	08.15.23
ISSUED FOR CONSTRUCTION	EL	DC	10.06.23

Consultants

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Client



Town of Edisto Beach
 2414 Murray Street
 Edisto Beach, SC 29438

Project

3706 Dock Site Road
 Edisto Beach, SC 29438

Bay Creek Park
 Pier Repairs

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Sheet Title

General Notes I

Project No.

EDBH00123

Date

10.06.23

Scale

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S1.0

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1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
A										ABBREVIATIONS					
B										ADDL	ADDITIONAL	LP	LOW POINT		
C										ADJ	ADJACENT	LWC	LIGHTWEIGHT CONCRETE		
D										ALT	ALTERNATE	LT WT	LIGHTWEIGHT		
E										APPROX	APPROXIMATE	M	MOMENT		
F										ARCH	ARCHITECT OR ARCHITECTURAL	MATL	MATERIAL		
G										B/	BOTTOM OF	MAX	MAXIMUM		
H										B/B	BACK TO BACK	MC	MOMENT CONNECTION(S)		
I										BLDG	BUILDING	MECH	MECHANICAL		
J										BLK	BLOCK	MEZZ	MEZZANINE		
K										BLKG	BLOCKING	MFR	MANUFACTURER		
										BM	BEAM	MID	MIDDLE		
										BOT	BOTTOM	MIN	MINIMUM		
										BRDG	BRIDGING	MISC	MISCELLANEOUS		
										BRG	BEARING	NIC	NOT IN CONTRACT		
										BTWN	BETWEEN	NO	NUMBER		
										C	COMPRESSION	NOM	NOMINAL		
										C/C	CENTER TO CENTER	NS	NEAR SIDE		
										CIP	CAST-IN-PLACE	NTS	NOT TO SCALE		
										CL	CENTER LINE	NWC	NORMAL WEIGHT CONCRETE		
										CLR	CLEAR OR CLEARANCE	NWT	NORMAL WEIGHT		
										CMU	CONCRETE MASONRY UNIT	OC	ON CENTER		
										COL	COLUMN	OD	OUTSIDE DIAMETER		
										COMP	COMPRESSION	OF	OUTSIDE FACE		
										CONC	CONCRETE	OH	OPPOSITE HAND		
										CONN	CONNECTION(S)	OPNG(S)	OPENING(S)		
										CONST	CONSTRUCTION	OPP	OPPOSITE		
										CONT	CONTINUOUS	PC	PIECE		
										DBL	DOUBLE	PCF	POUNDS PER CUBIC FOOT		
										DET	DETAIL	PCY	POUNDS PER CUBIC YARD		
										DIA	DIAMETER	PERP	PERPENDICULAR		
										DIAG	DIAGONAL	PL	PLATE		
										DIM(S)	DIM	PRCST	PRECAST		
										DL	DEAD LOAD	PRLL	PARALLEL		
										DWG(S)	DRAWING(S)	PSF	POUNDS PER SQUARE FOOT		
										DWL(S)	DOWEL(S)	RAD	RADIUS		
										EA	EACH	RECM'D	RECOMMENDED		
										ECC	ECCENTRICITY	RECT	RECTANGULAR		
										EF	EACH FACE	REF	REFERENCE		
										EL	ELEVATION	REINF	REINFORCE(D) (ING) OR (MENT)		
										ELEC	ELECTRICAL	REQD	REQUIRED		
										ENGR	ENGINEER	RND	ROUND		
										EOR	ENGINEER OF RECORD	S4S	LUMBER SURFACED 4 SIDES		
										EQ	EQUAL	SCHED	SCHEDULE(D)		
										EQUIP	EQUIPMENT	SDL	SUPERIMPOSED DEAD LOAD		
										EW	EACH WAY	SECT	SECTION		
										EXP	EXPANSION	SF	SQUARE FOOT (FEET)		
										EXIST	EXISTING	SHT	SHEET		
										EXT	EXTERIOR	SIM	SIMILAR		
										F/F	FACE TO FACE	SOG	SLAB ON GRADE		
										FIN	FINISH(ED)	SP	SPACE		
										FL	FLOOR	SPEC(S)	SPECIFICATION(S)		
										FND	FOUNDATION	STD	STANDARD		
										FP	FIREPROOF(ING)	STL	STEEL		
										FS	FAR SIDE	STRCT	STRUCTURE		
										FTG	FOOTING	STRCTL	STRUCTURAL		
										GA	GAGE OR GAUGE	SUPPTS	SUPPORT(S)		
										GALV	GALVANIZED	SYM	SYMMETRICAL		
										GEN	GENERAL	T	TENSION		
										GR	GRADE	T/	TOP OF		
										HK	HOOK	T&B	TOP AND BOTTOM		
										HORZ	HORIZONTAL	TEMP	TEMPERATURE		
										HP	HIGH POINT	TEN	TENSION		
										HT	HEIGHT	TH	THICK OR THICKNESS		
										ID	INSIDE DIAMETER	TOD	TOP OF DECK		
										IF	INSIDE FACE	TYP	TYPICAL		
										INFO	INFORMATION	UON	UNLESS OTHERWISE NOTED		
										INT	INTERIOR	V	SHEAR		
										INTRM	INTERMEDIATE	VERT	VERTICAL		
										JST(S)	JOIST(S)	VIF	VERIFY IN FIELD		
										JT	JOINT	W/	WITH		
										K	KIPS (OR 1,000 POUNDS)	W/O	WITHOUT		
										KLF	KIP PER LINEAR FOOT	WD	WOOD		
										KSF	KIP PER SQUARE FOOT	WP	WORK POINT		
										LL	LIVE LOAD	WPG	WATERPROOFING		
										LLH	LONG LEG HORIZONTAL	WS	WATERSTOP		
										LLV	LONG LEG VERTICAL	WWF	WELDED WIRE FABRIC		
										LONG	LONGITUDINAL				

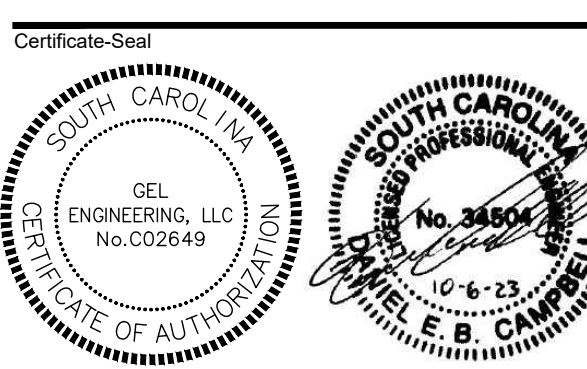
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Consultants



Client



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Bay Creek Park
 Pier Repairs

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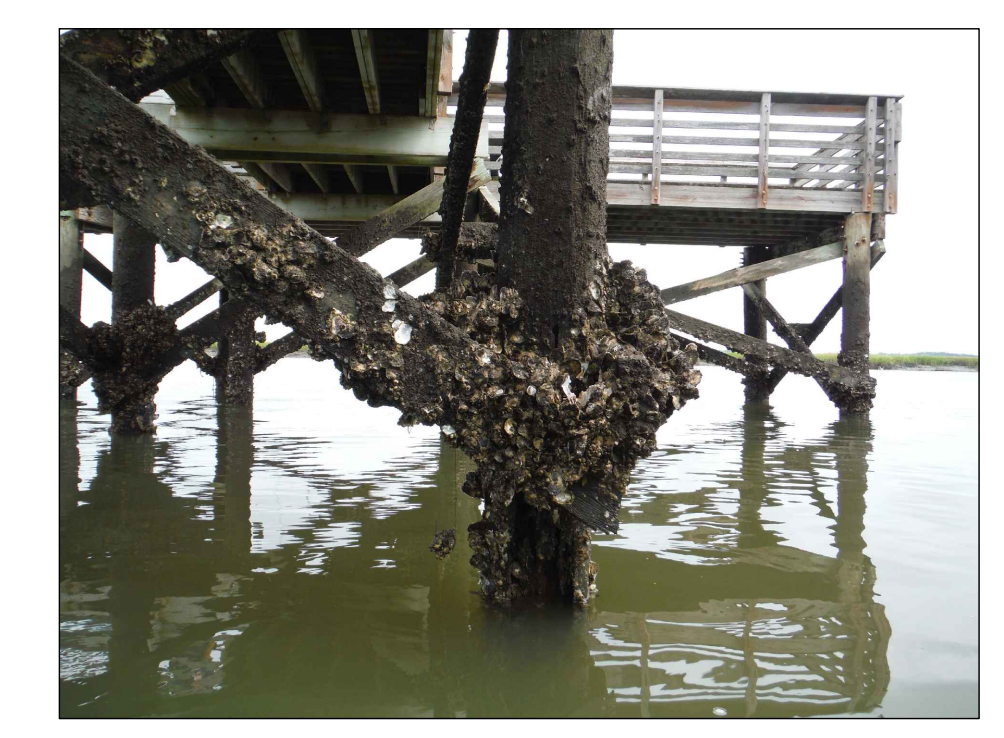
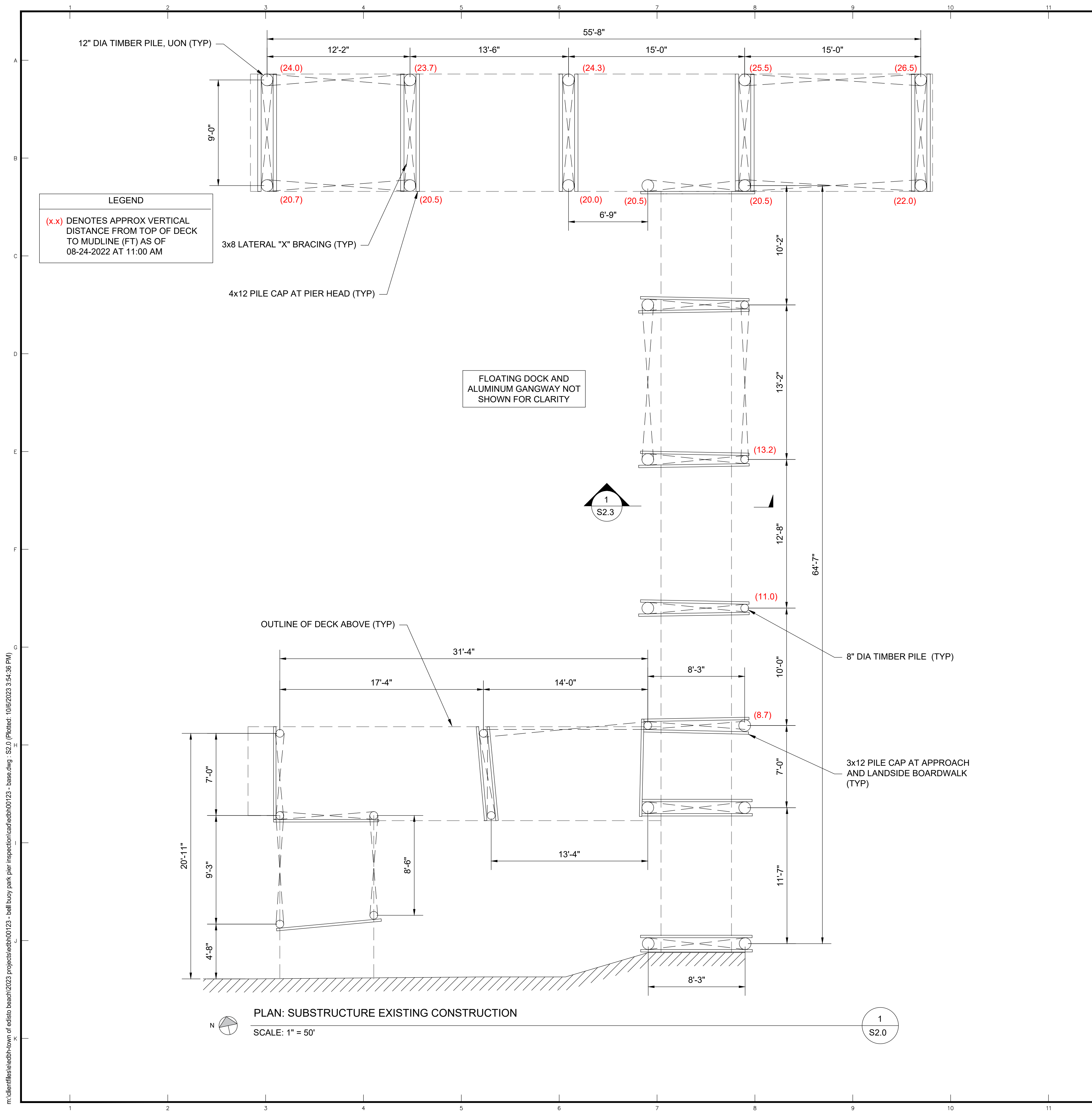
General Notes II

Project No. _____ Drawing No. _____
 EDBH00123
 Date 10.06.23
 Scale Not to Scale **S1.1**

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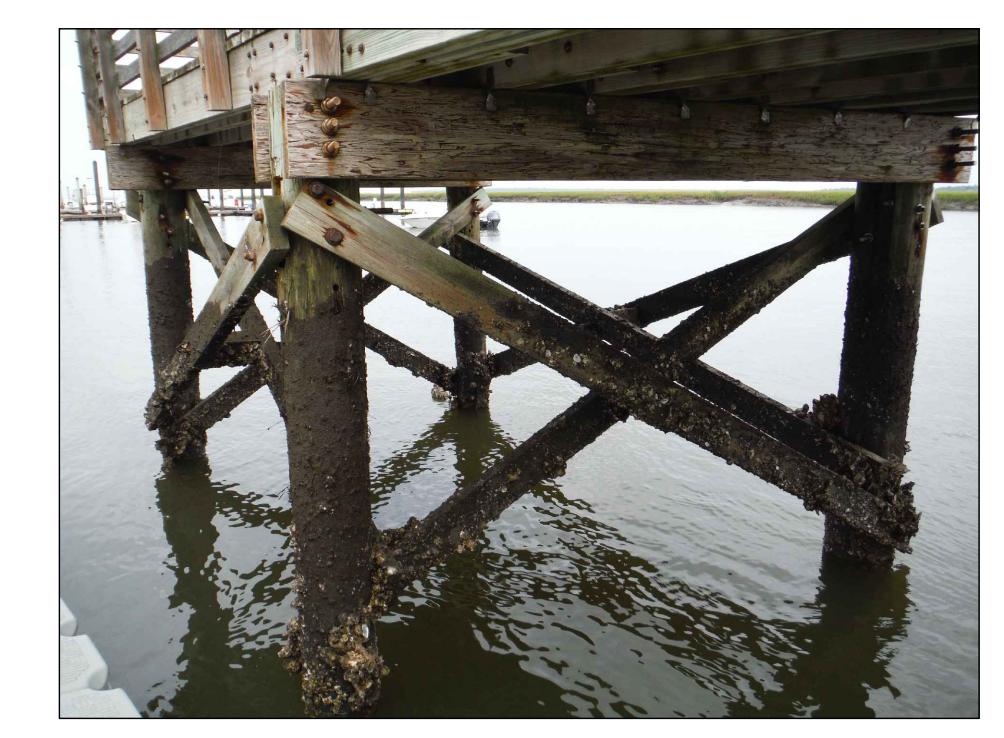
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PHOTOGRAPH 1 - TYPICAL PILE AND "X" BRACING



PHOTOGRAPH 2 - OVERVIEW LOOKING SOUTHEAST



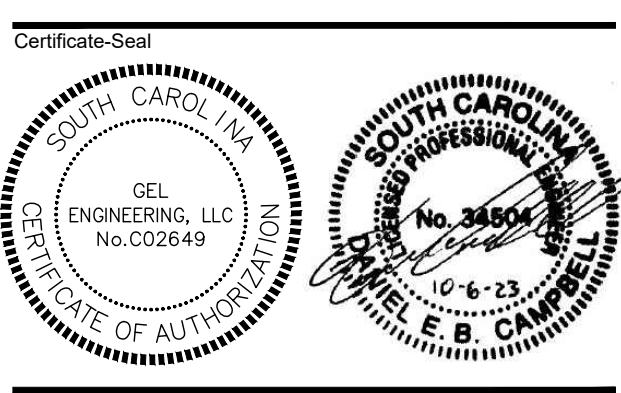
PHOTOGRAPH 3 - TYPICAL BENT AT PIER HEAD

SHEET NOTES

1. PLANS AND EXISTING STRUCTURE EXTENTS GENERATED BASED ON FIELD OBSERVATIONS PERFORMED BY GEL ENGINEERING, LLC ON AUGUST 24TH 2022, AND INFORMATION PROVIDED BY THE TOWN ARE FOR REFERENCE ONLY. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO ORDERING REPAIR MATERIALS AND BEGINNING WORK.
2. REFER TO S1.0 AND S1.1 FOR GENERAL NOTES.
3. REFER TO S2.0, S2.1, S2.2, AND S2.3 FOR EXISTING CONDITIONS.
4. REFER TO S3.0, S3.1, S3.2, S3.3, S3.4 AND S3.5 FOR REPAIRS.
5. REFER TO S4.0 AND S4.1 FOR DETAILS.

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**Bay Creek Park
 Pier Repairs**

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**Existing Construction at
 Substructure**

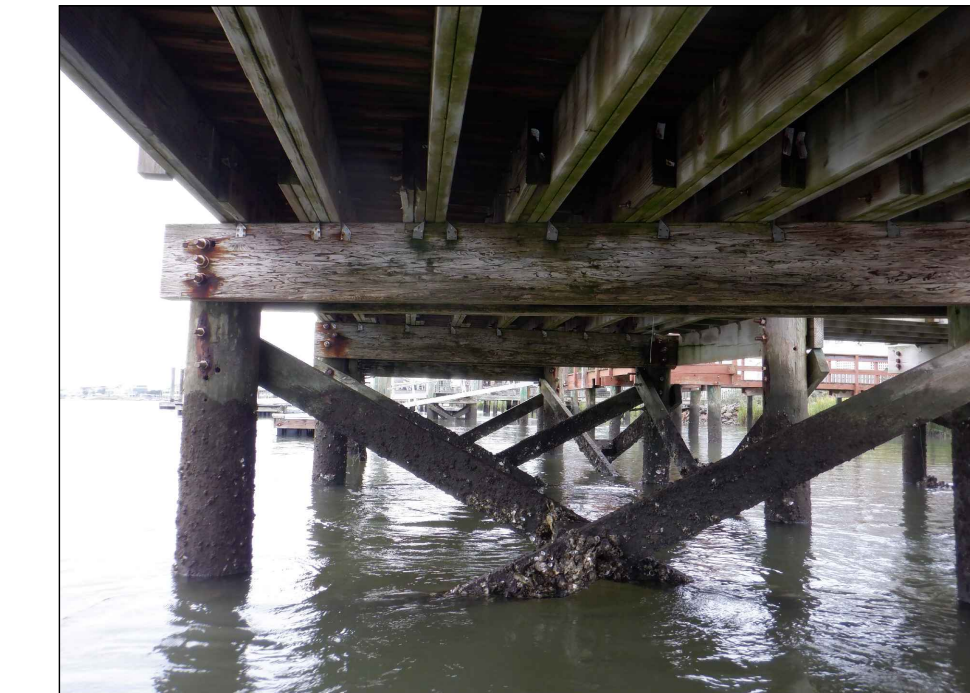
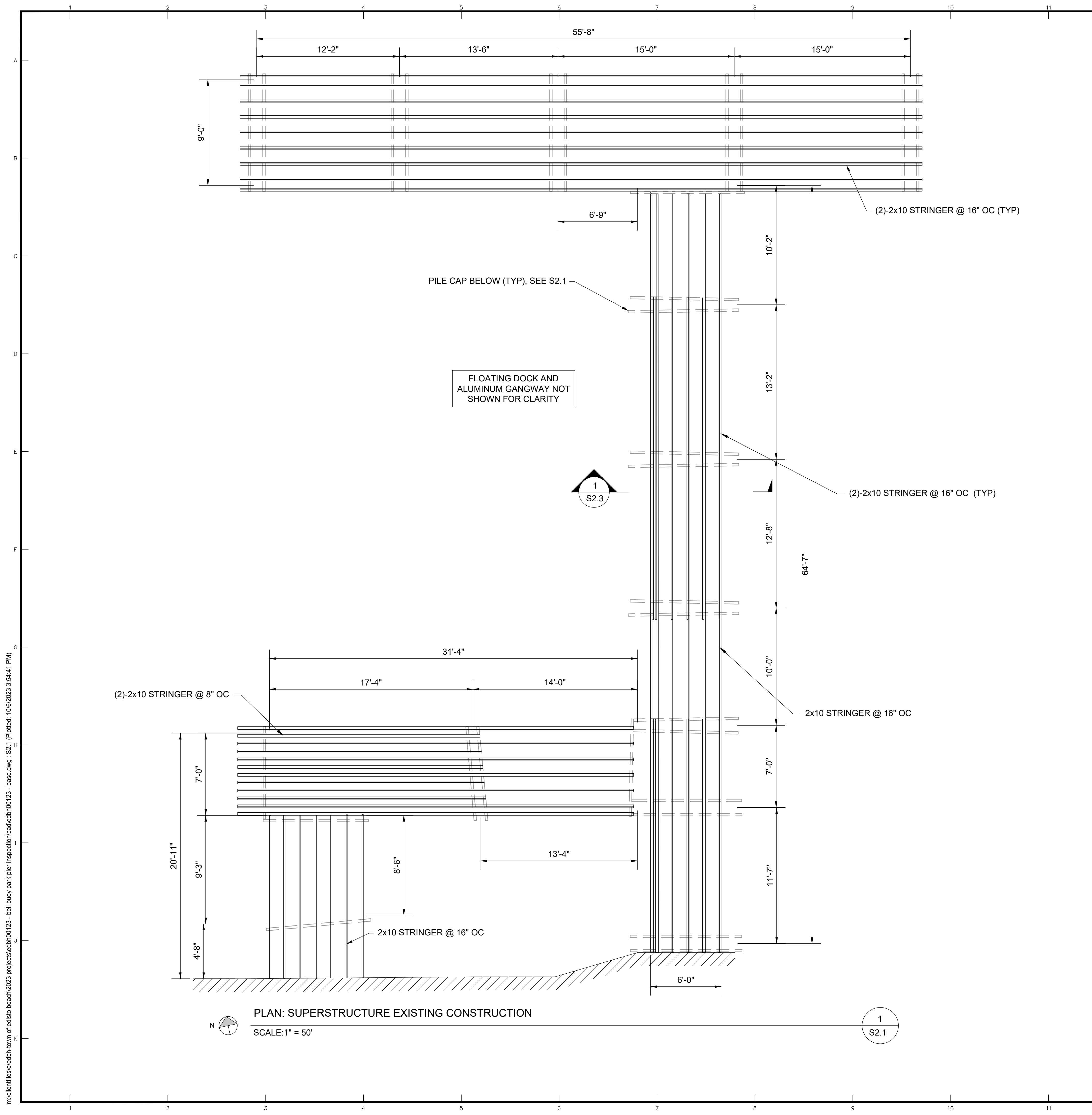
Project No. EDBH00123
 Drawing No. S2.0

Date 10.06.23
 Scale Not to Scale

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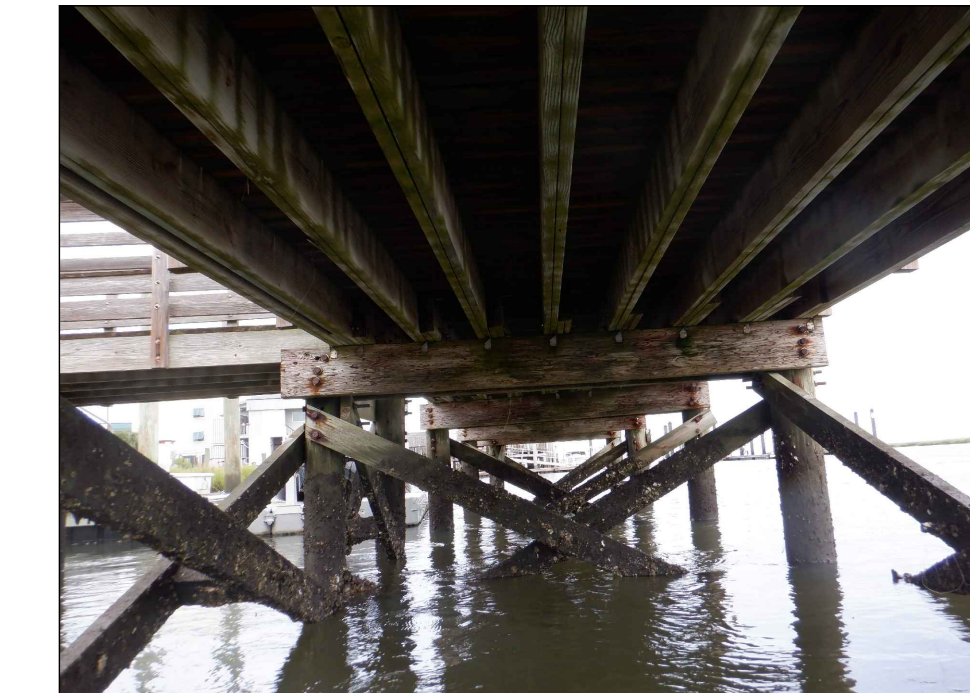
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PHOTOGRAPH 1 - UNDERSIDE LOOKING EAST



PHOTOGRAPH 2 - APPROACH PIER-TO-PIER HEAD CONNECTION



PHOTOGRAPH 3 - UNDERSIDE LOOKING WEST

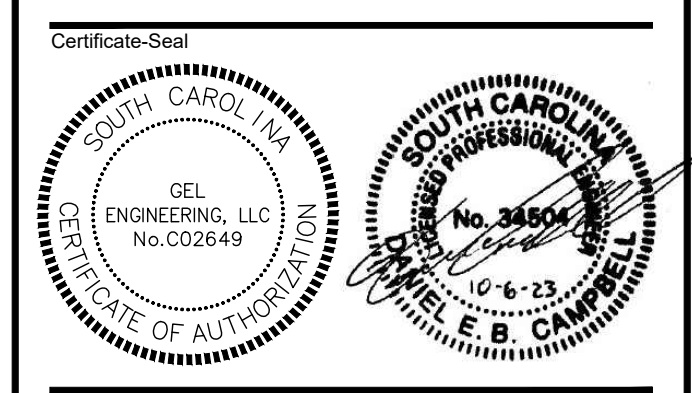
SHEET NOTES

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4. REFER TO S3.0, S3.1, S3.2, S3.3, S3.4 AND S3.5 FOR REPAIRS.
5. REFER TO S4.0 AND S4.1 FOR DETAILS.

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ISSUED FOR REVIEW		EL	DC	08.15.23
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Client



Town of Edisto Beach
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Edisto Beach, SC 29438

Project

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Edisto Beach, SC 29438

Bay Creek Park
Pier Repairs

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Sheet Title
Existing Construction at Superstructure

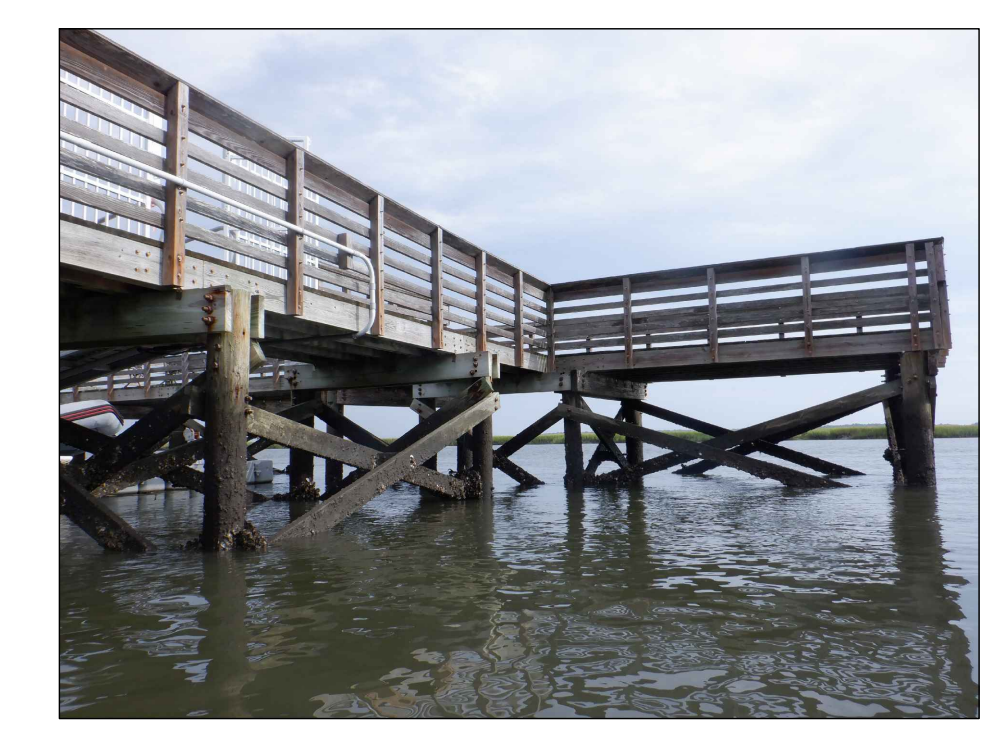
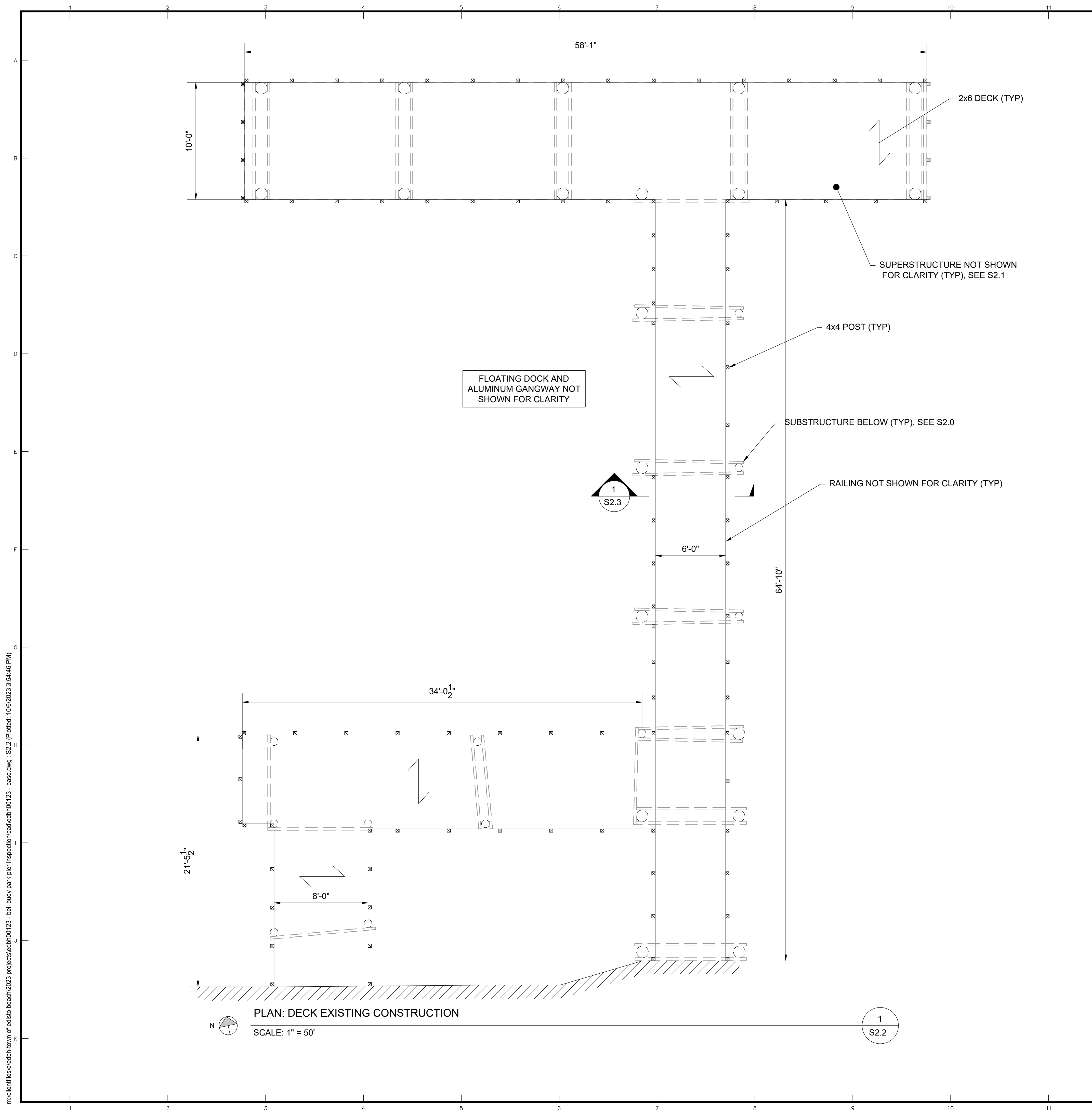
Project No. EDBH00123
Drawing No.
Date 10.06.23
Scale

Not to Scale
S2.1

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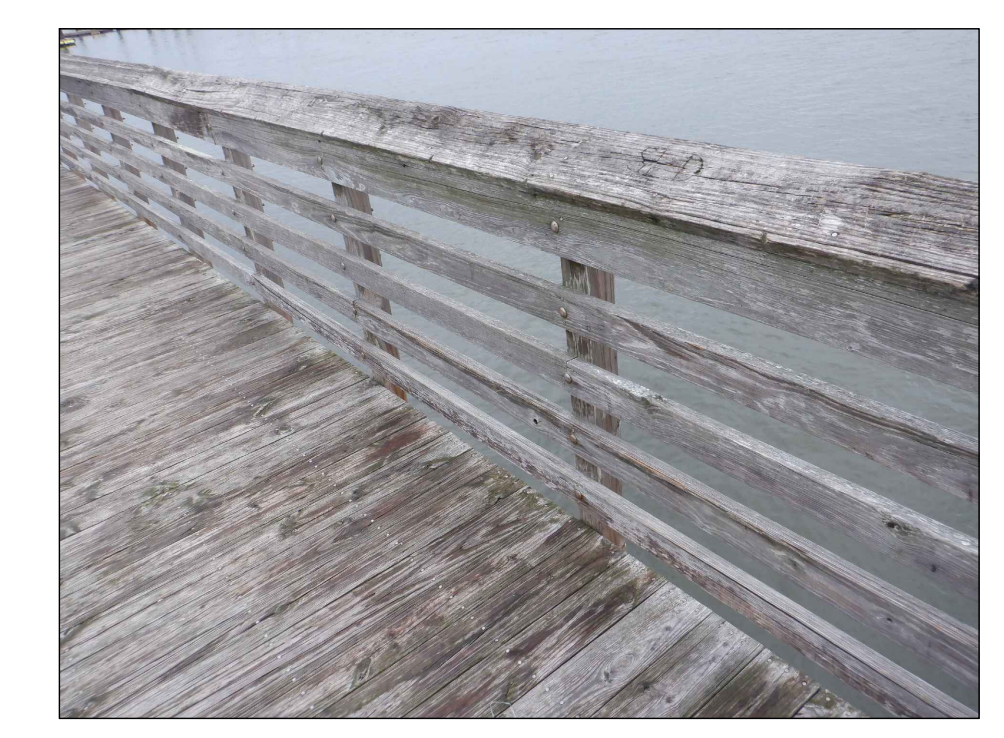
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PHOTOGRAPH 1 - OVERVIEW LOOKING NORTH



PHOTOGRAPH 2 - OVERVIEW LOOKING SOUTH



PHOTOGRAPH 3 - TYPICAL RAILING

SHEET NOTES

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5. REFER TO S4.0 AND S4.1 FOR DETAILS.

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Existing Construction at Deck

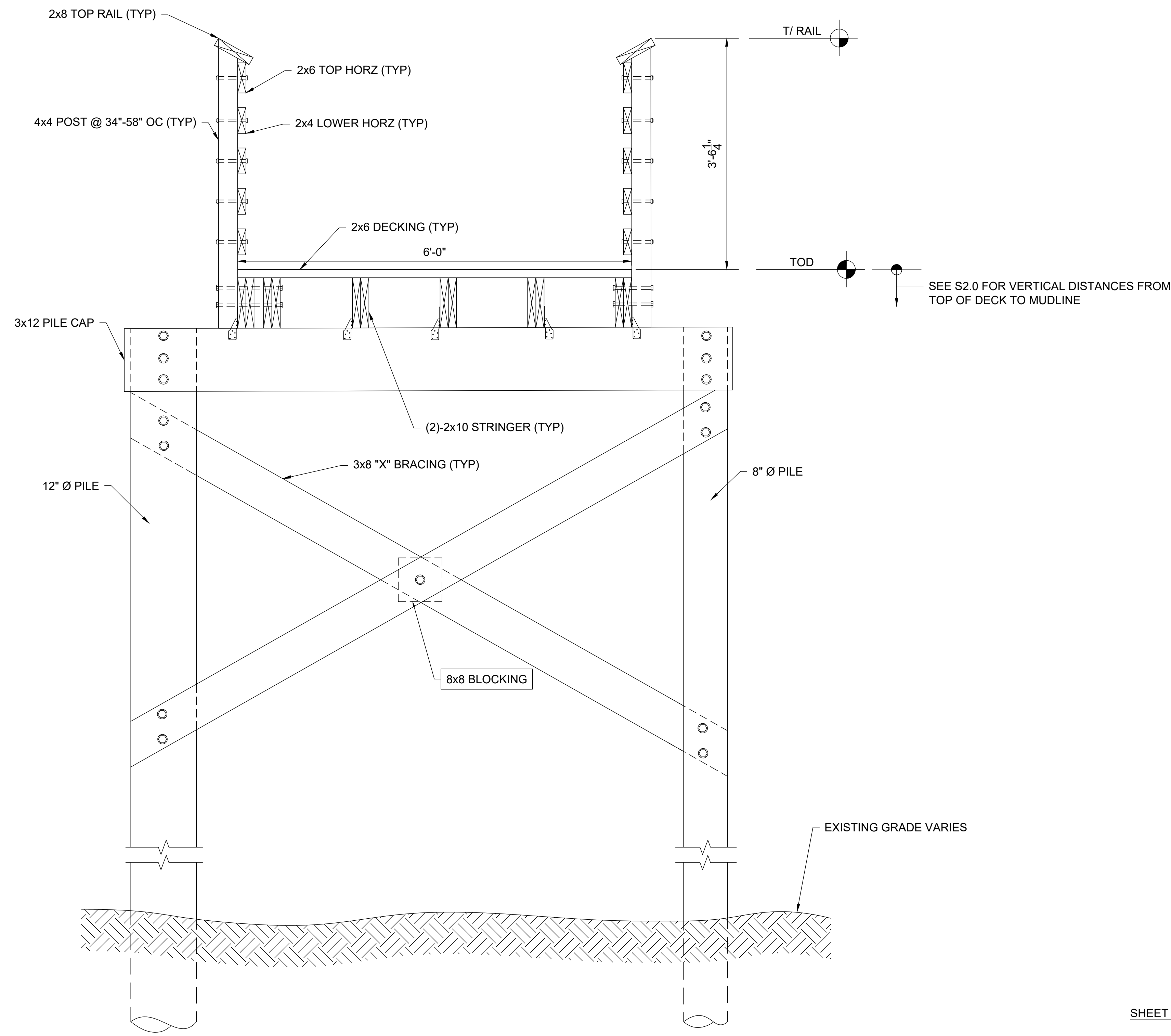
Project No. EDBH00123 Drawing No. _____
 Date 10.06.23
 Scale Not to Scale

S2.2

RELEASED FOR CONSTRUCTION

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SECTION: EXISTING CONSTRUCTION AT APPROACH BOARDWALK

SCALE: 1" = 12'

1
S2.3

SHEET NOTES

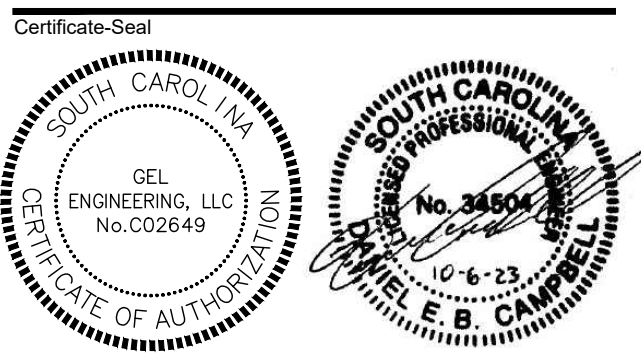
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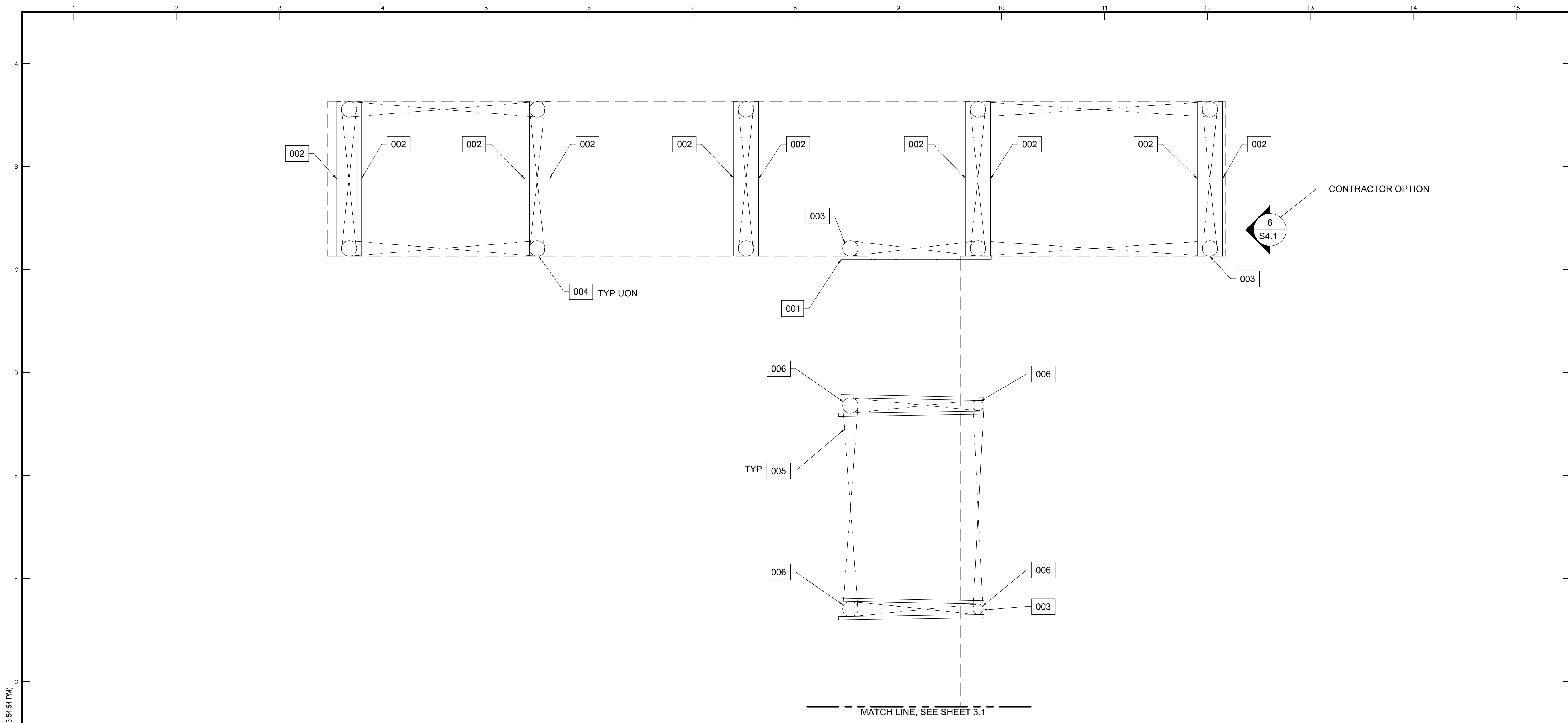
Sheet Title
**Existing Construction
at Existing Approach
Boardwalk**

Project No. _____ Drawing No. _____
EDBH00123
Date
10.06.23
Scale
Not to Scale **S2.3**

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PARTIAL PLAN: SUBSTRUCTURE REPAIRS I
 SCALE: 1" = 40'

1
S3.0

REPAIRS

NUMBERS DO NOT REPRESENT SEQUENCE OF WORK.

- 001 SISTER EXISTING PILE CAP W/ 3x12 PER 3/S4.0.
- 002 PILE CAPS AT THE PIER HEAD SHOULD BE REMOVED AND REPLACED IN-KIND, ATTACH TO EXISTING THRU-BOLT W/ NEW SS NUTS AND WASHERS.
 CONTRACTOR OPTION: LEAVE EXISTING PILE CAPS IN PLACE AND INSTALL SUPPLEMENTAL BLOCKING AT EACH PILE PER 6/S4.1. ADDITIONALLY, SISTER EXTERIOR FACE OF EACH PILE CAP WITH A 3x12, SEE 6/S4.1.
- 003 PROVIDE STRUCTURAL PILE JACKET PER 2/S4.0.
- 004 PROVIDE NON-STRUCTURAL PILE JACKET PER 1/S4.0.
- 005 REMOVE AND REPLACE ALL "X" BRACING IN-KIND PER 5/S4.1.
- 006 INSTALL FX 763 EPOXY BY DENSO TO TOP OF PILE TO FILL VOIDS AND TOPCOAT WITH ARCHCO 15 ACRYLIC BY DENSO; INSTALL PER MANUF REQTS.

SHEET NOTES

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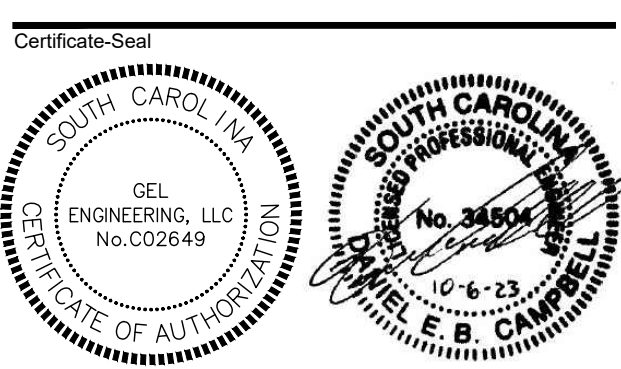
LEGEND	
XXX	DENOTES REPAIR NOTE, SEE PLAN AND NOTES THIS SHEET.

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 2414 Murray Street
 Edisto Beach, SC 29438

Project

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 Edisto Beach, SC 29438

Bay Creek Park
 Pier Repairs

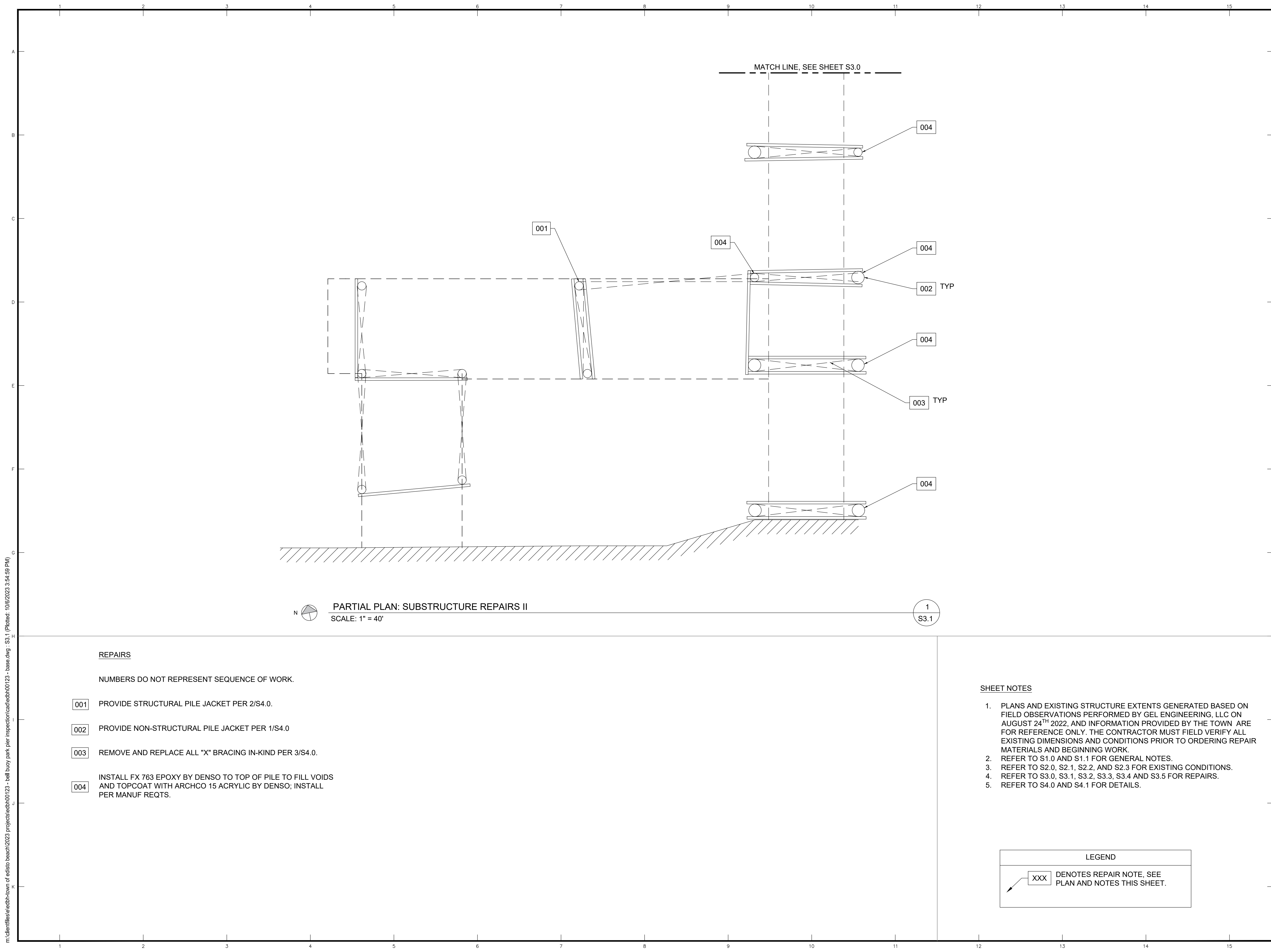
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Sheet Title
Substructure Repairs I

Project No. EDBH00123	Drawing No.
Date 10.06.23	Scale S3.0
Not to Scale	
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PARTIAL PLAN: SUBSTRUCTURE REPAIRS II
 SCALE: 1" = 40'

1
 S3.1

REPAIRS

NUMBERS DO NOT REPRESENT SEQUENCE OF WORK.

- 001** PROVIDE STRUCTURAL PILE JACKET PER 2/S4.0.
- 002** PROVIDE NON-STRUCTURAL PILE JACKET PER 1/S4.0
- 003** REMOVE AND REPLACE ALL "X" BRACING IN-KIND PER 3/S4.0.
- 004** INSTALL FX 763 EPOXY BY DENSO TO TOP OF PILE TO FILL VOIDS AND TOPCOAT WITH ARCHCO 15 ACRYLIC BY DENSO; INSTALL PER MANUF REQTS.

SHEET NOTES

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LEGEND

XXX DENOTES REPAIR NOTE, SEE PLAN AND NOTES THIS SHEET.

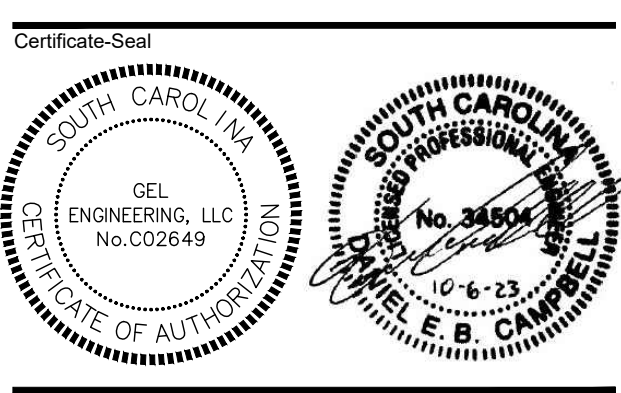
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**Bay Creek Park
 Pier Repairs**

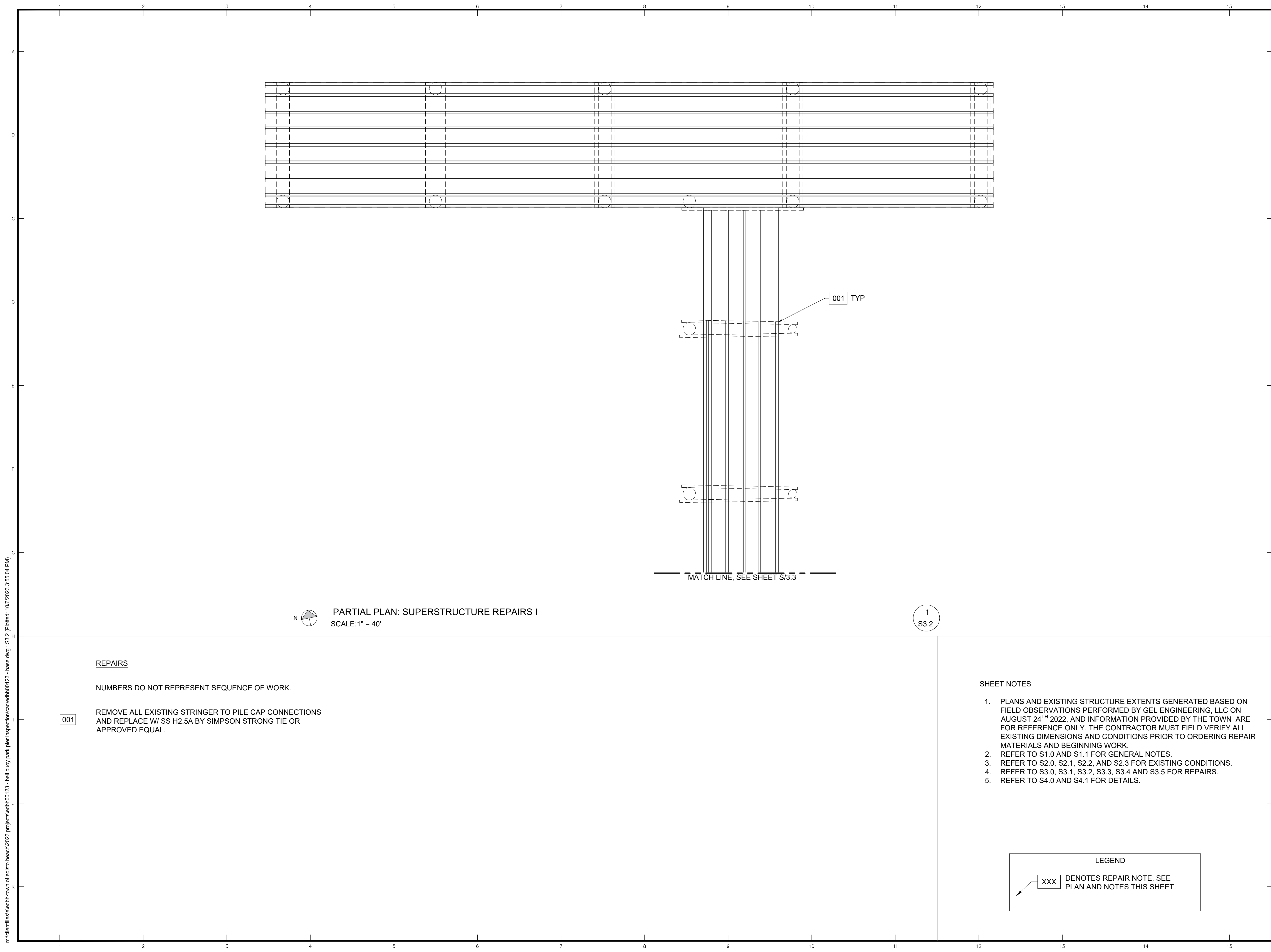
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Substructure Repairs II

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Date	10.06.23	Scale	Not to Scale
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N PARTIAL PLAN: SUPERSTRUCTURE REPAIRS I
SCALE: 1" = 40'

1
S3.2

REPAIRS

NUMBERS DO NOT REPRESENT SEQUENCE OF WORK.

001 REMOVE ALL EXISTING STRINGER TO PILE CAP CONNECTIONS AND REPLACE W/ SS H2.5A BY SIMPSON STRONG TIE OR APPROVED EQUAL.

SHEET NOTES

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5. REFER TO S4.0 AND S4.1 FOR DETAILS.

LEGEND

XXX DENOTES REPAIR NOTE, SEE PLAN AND NOTES THIS SHEET.

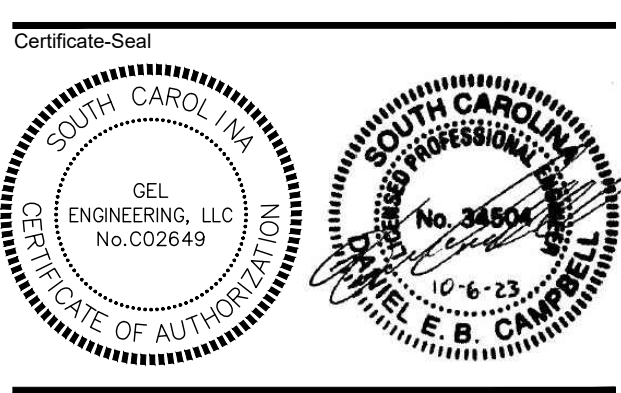
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Edisto Beach, SC 29438

Project

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Edisto Beach, SC 29438

Bay Creek Park
Pier Repairs

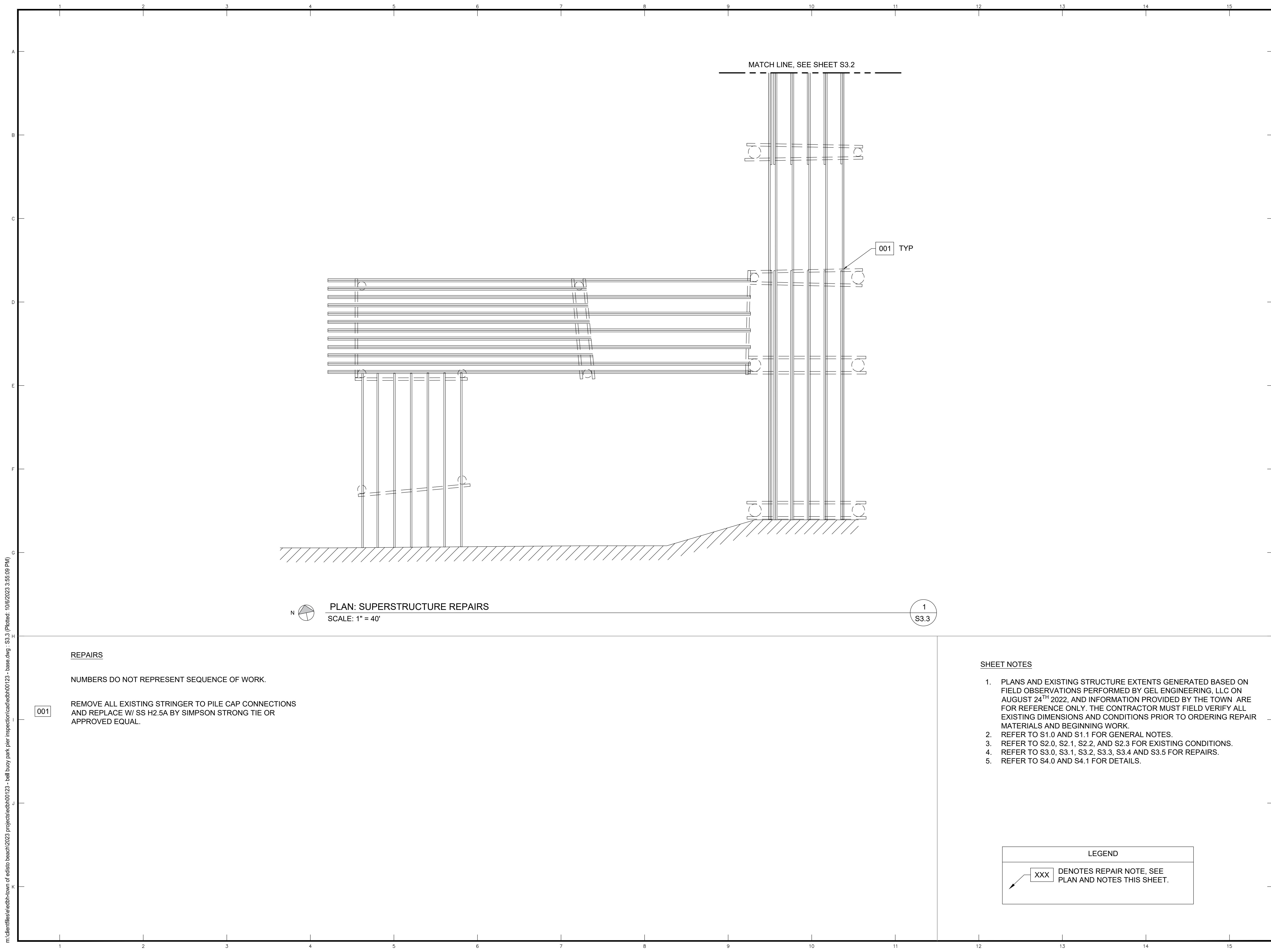
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Sheet Title
Superstructure Repairs I

Project No. EDBH00123 Drawing No. _____
Date 10.06.23
Scale Not to Scale **S3.2**
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PLAN: SUPERSTRUCTURE REPAIRS
SCALE: 1" = 40'

1
S3.3

REPAIRS

NUMBERS DO NOT REPRESENT SEQUENCE OF WORK.

- 001 REMOVE ALL EXISTING STRINGER TO PILE CAP CONNECTIONS AND REPLACE W/ SS H2.5A BY SIMPSON STRONG TIE OR APPROVED EQUAL.

SHEET NOTES

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LEGEND

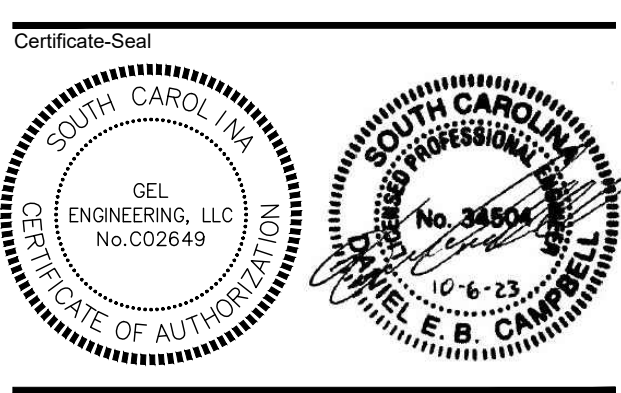
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Edisto Beach, SC 29438

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Edisto Beach, SC 29438

Bay Creek Park
Pier Repairs

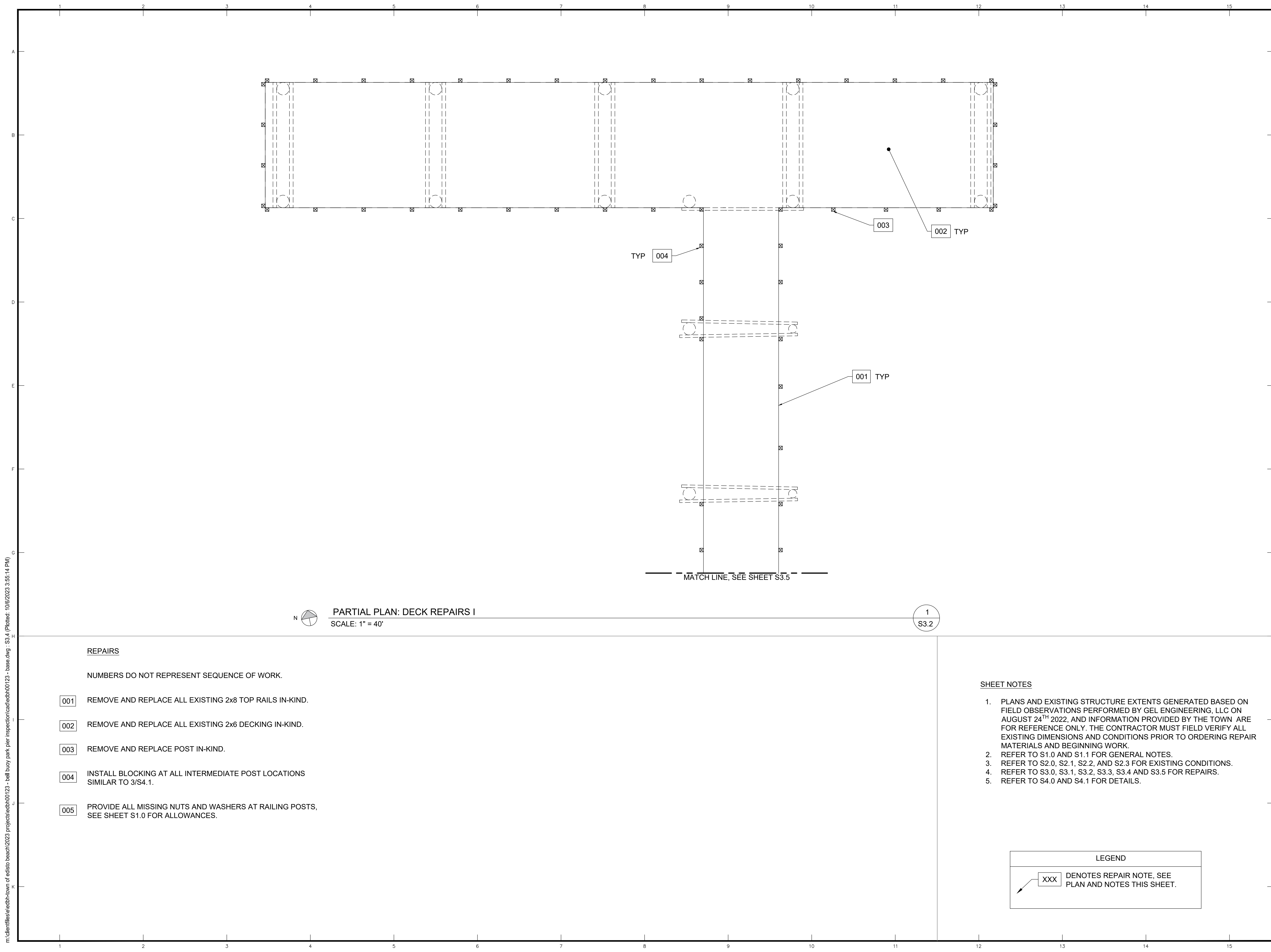
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Sheet Title
Superstructure Repairs II

Project No. _____ Drawing No. _____
EDBH00123
Date _____
10.06.23
Scale _____ **S3.3**
Not to Scale
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N PARTIAL PLAN: DECK REPAIRS I
SCALE: 1" = 40'

1
S3.2

REPAIRS

NUMBERS DO NOT REPRESENT SEQUENCE OF WORK.

- 001 REMOVE AND REPLACE ALL EXISTING 2x8 TOP RAILS IN-KIND.
- 002 REMOVE AND REPLACE ALL EXISTING 2x6 DECKING IN-KIND.
- 003 REMOVE AND REPLACE POST IN-KIND.
- 004 INSTALL BLOCKING AT ALL INTERMEDIATE POST LOCATIONS SIMILAR TO 3/S4.1.
- 005 PROVIDE ALL MISSING NUTS AND WASHERS AT RAILING POSTS, SEE SHEET S1.0 FOR ALLOWANCES.

SHEET NOTES

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LEGEND

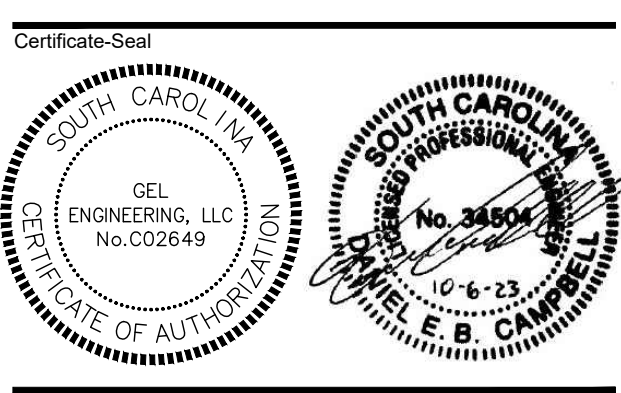
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Bay Creek Park
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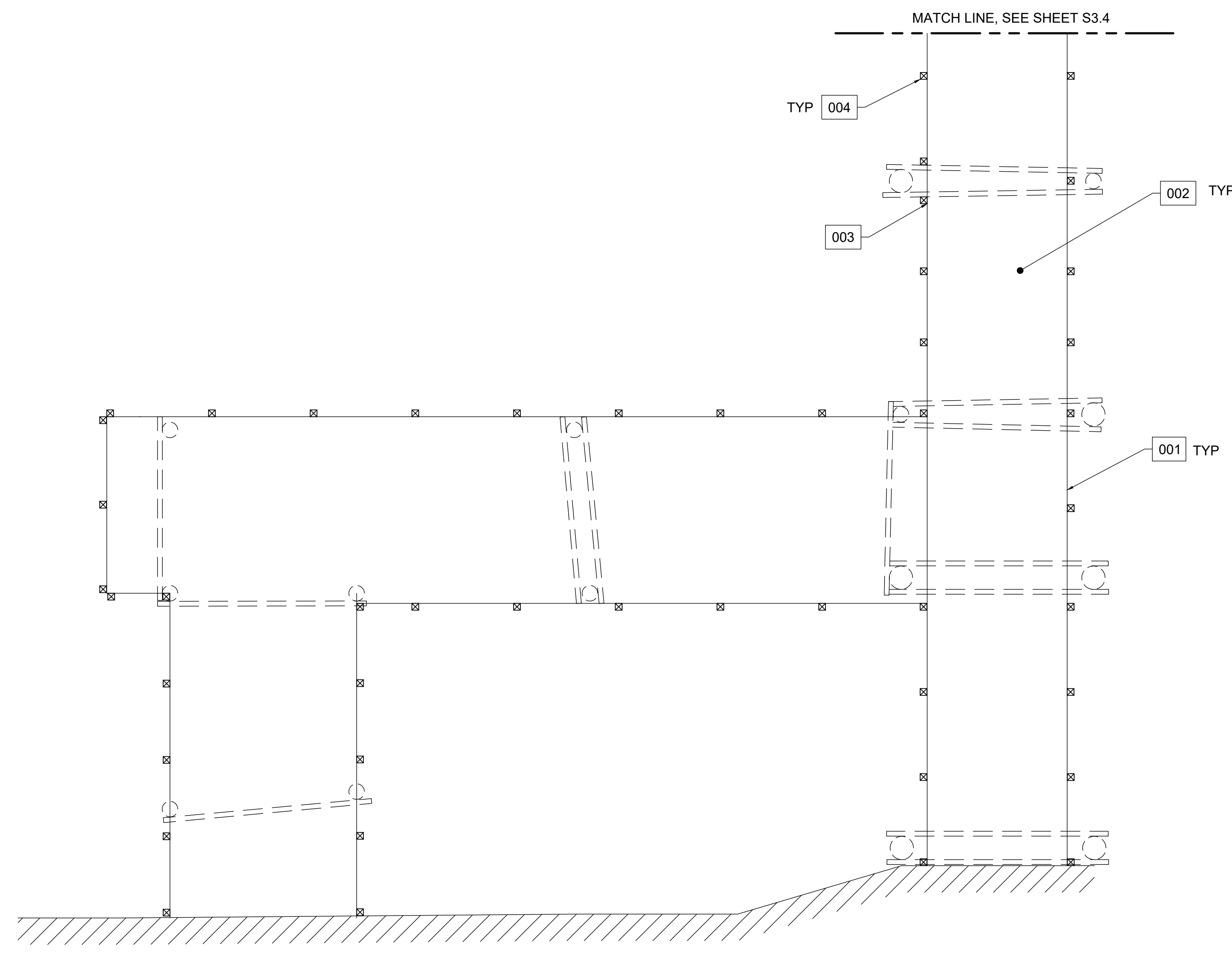
Sheet Title

Deck Repairs I

Project No. _____ Drawing No. _____
EDBH00123
Date _____
10.06.23
Scale _____ **S3.4**
Not to Scale
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PARTIAL PLAN: DECK REPAIRS II
SCALE: 1" = 40'

1
S3.3

REPAIRS

NUMBERS DO NOT REPRESENT SEQUENCE OF WORK.

- 001 REMOVE AND REPLACE ALL EXISTING 2x8 TOP RAILS IN-KIND.
- 002 REMOVE AND REPLACE ALL EXISTING 2x6 DECKING IN-KIND.
- 003 REPAIR DAMAGED ELECTRICAL CONDUIT.
- 004 INSTALL BLOCKING AT ALL INTERMEDIATE POST LOCATIONS SIMILAR TO 3/S4.1.
- 005 PROVIDE ALL MISSING NUTS AND WASHERS AT RAILING POSTS. SEE SHEET S1.0 FOR ALLOWANCES.

SHEET NOTES

1. PLANS AND EXISTING STRUCTURE EXTENTS GENERATED BASED ON FIELD OBSERVATIONS PERFORMED BY GEL ENGINEERING, LLC ON AUGUST 24TH 2022, AND INFORMATION PROVIDED BY THE TOWN ARE FOR REFERENCE ONLY. THE CONTRACTOR MUST FIELD VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO ORDERING REPAIR MATERIALS AND BEGINNING WORK.
2. REFER TO S1.0 AND S1.1 FOR GENERAL NOTES.
3. REFER TO S2.0, S2.1, S2.2, AND S2.3 FOR EXISTING CONDITIONS.
4. REFER TO S3.0, S3.1, S3.2, S3.3, S3.4 AND S3.5 FOR REPAIRS.
5. REFER TO S4.0 AND S4.1 FOR DETAILS.

LEGEND

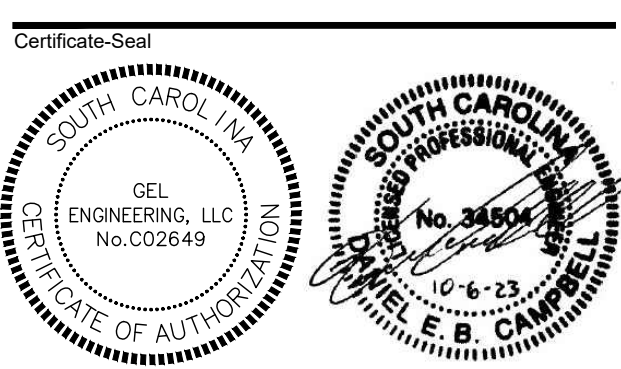
XXX DENOTES REPAIR NOTE, SEE PLAN AND NOTES THIS SHEET.

GEL Problem Solved
Engineering LLC
2040 Savage Road Charleston, SC 29407
P 843.769.7378 F 843.769.7397
www.GEL.com

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ENVIRONMENTAL • ENGINEERING • SURVEYING

Revisions	Description	By	Appr	Date
ISSUED FOR REVIEW		EL	DC	08.15.23
ISSUED FOR CONSTRUCTION		EL	DC	10.06.23

Consultants



Client



Town of Edisto Beach
2414 Murray Street
Edisto Beach, SC 29438

Project

3706 Dock Site Road
Edisto Beach, SC 29438

**Bay Creek Park
Pier Repairs**

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Sheet Title

Deck Repairs II

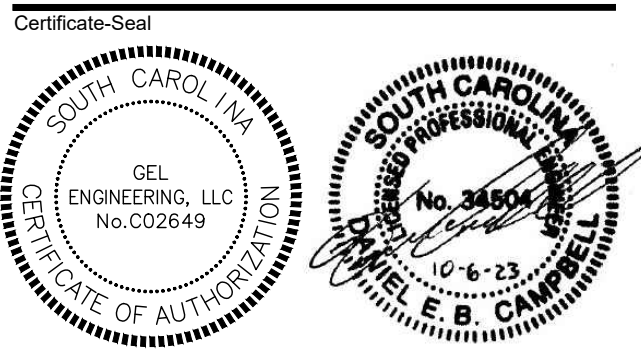
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EDBH00123	
Date	
10.06.23	
Scale	
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Revisions			
Description	By	Appr	Date
ISSUED FOR REVIEW	EL	DC	08.15.23
ISSUED FOR CONSTRUCTION	EL	DC	10.06.23

Consultants



Client



Town of Edisto Beach
 2414 Murray Street
 Edisto Beach, SC 29438

Project
 3706 Dock Site Road
 Edisto Beach, SC 29438

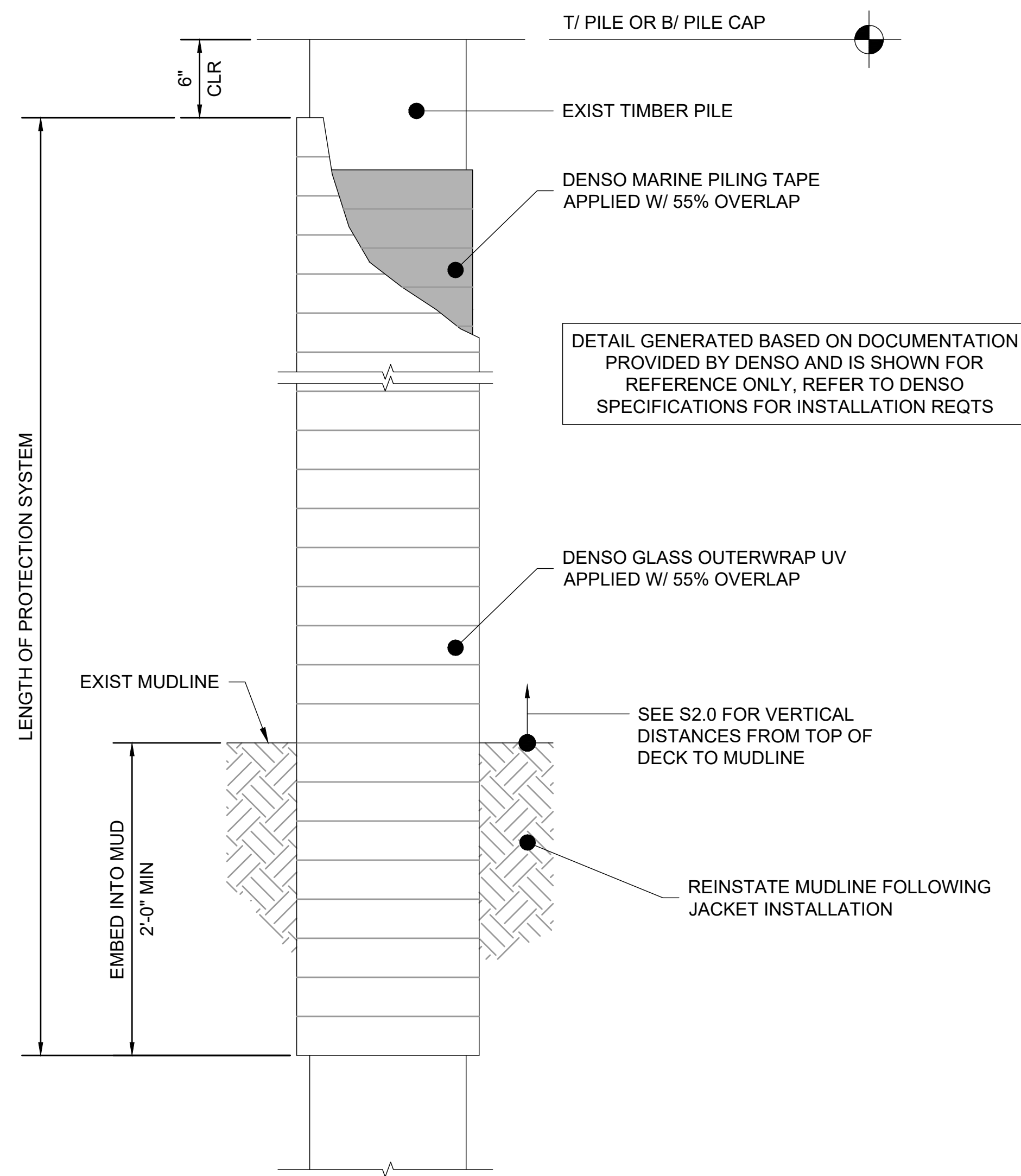
Bay Creek Park
 Pier Repairs

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Sheet Title
Pile Protection Systems

Project No. _____ Drawing No. _____
 EDBH00123
 Date _____
 10.06.23
 Scale _____ **S4.0**

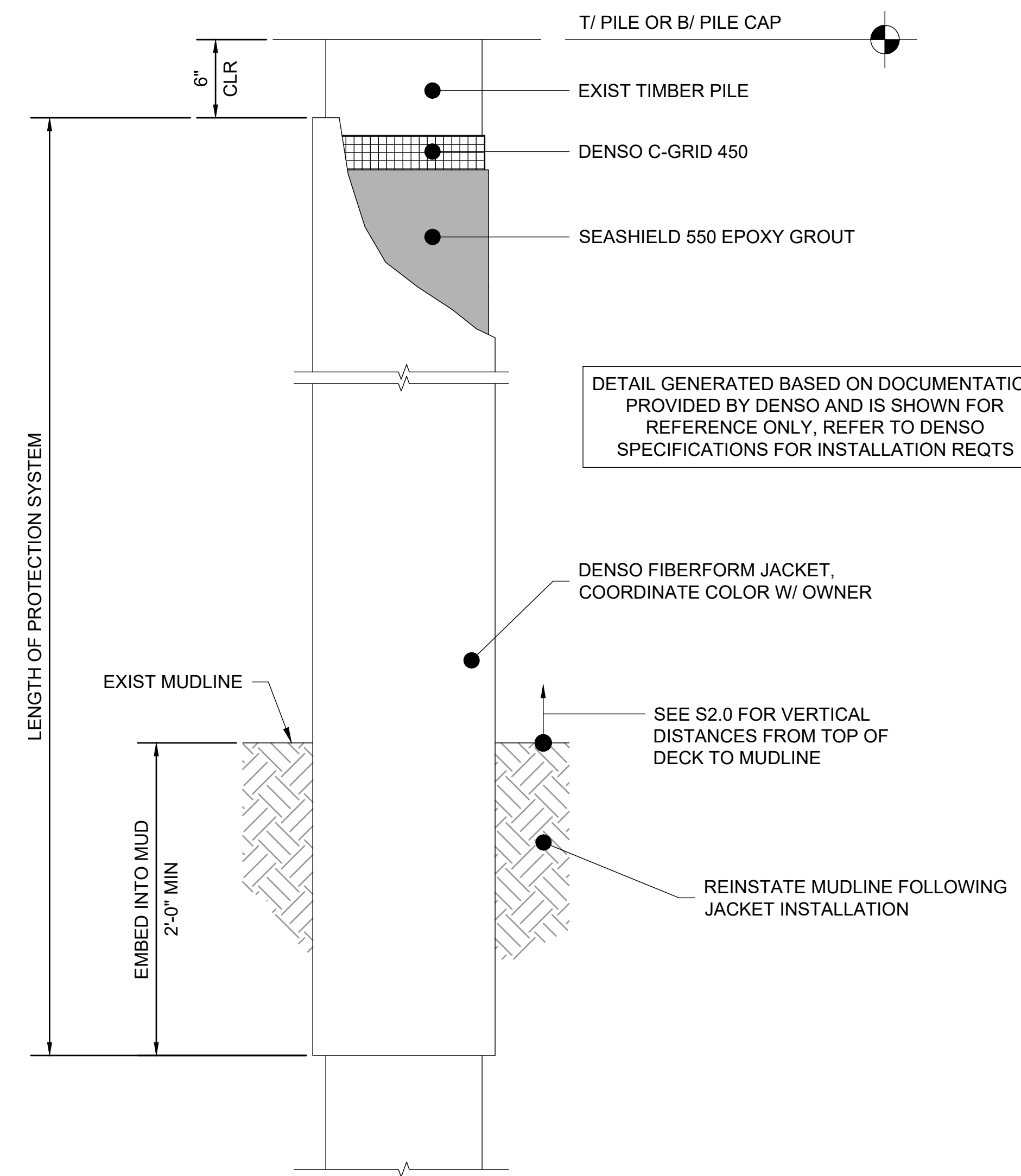
Not to Scale
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ELEVATION: SEASHIELD SERIES 70 PROTECTION SYSTEM

SCALE: 1 1/2" = 1'

NON-STRUCTURAL REPAIR S4.0



ELEVATION: SEASHIELD SERIES 400 PROTECTION SYSTEM

SCALE: 1 1/2" = 1'

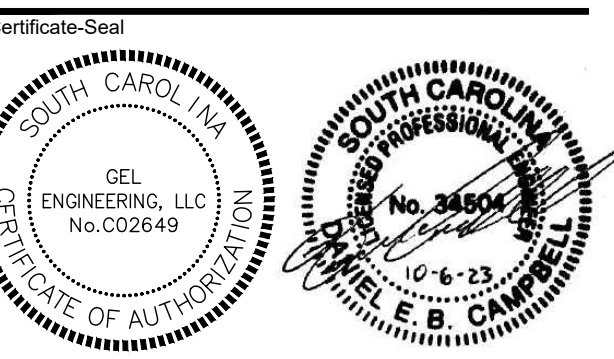
STRUCTURAL REPAIR S4.0

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Revisions			
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ISSUED FOR CONSTRUCTION	EL	DC	10.06.23

Consultants



Client



Town of Edisto Beach
 2414 Murray Street
 Edisto Beach, SC 29438

Project

3706 Dock Site Road
 Edisto Beach, SC 29438

Bay Creek Park
 Pier Repairs

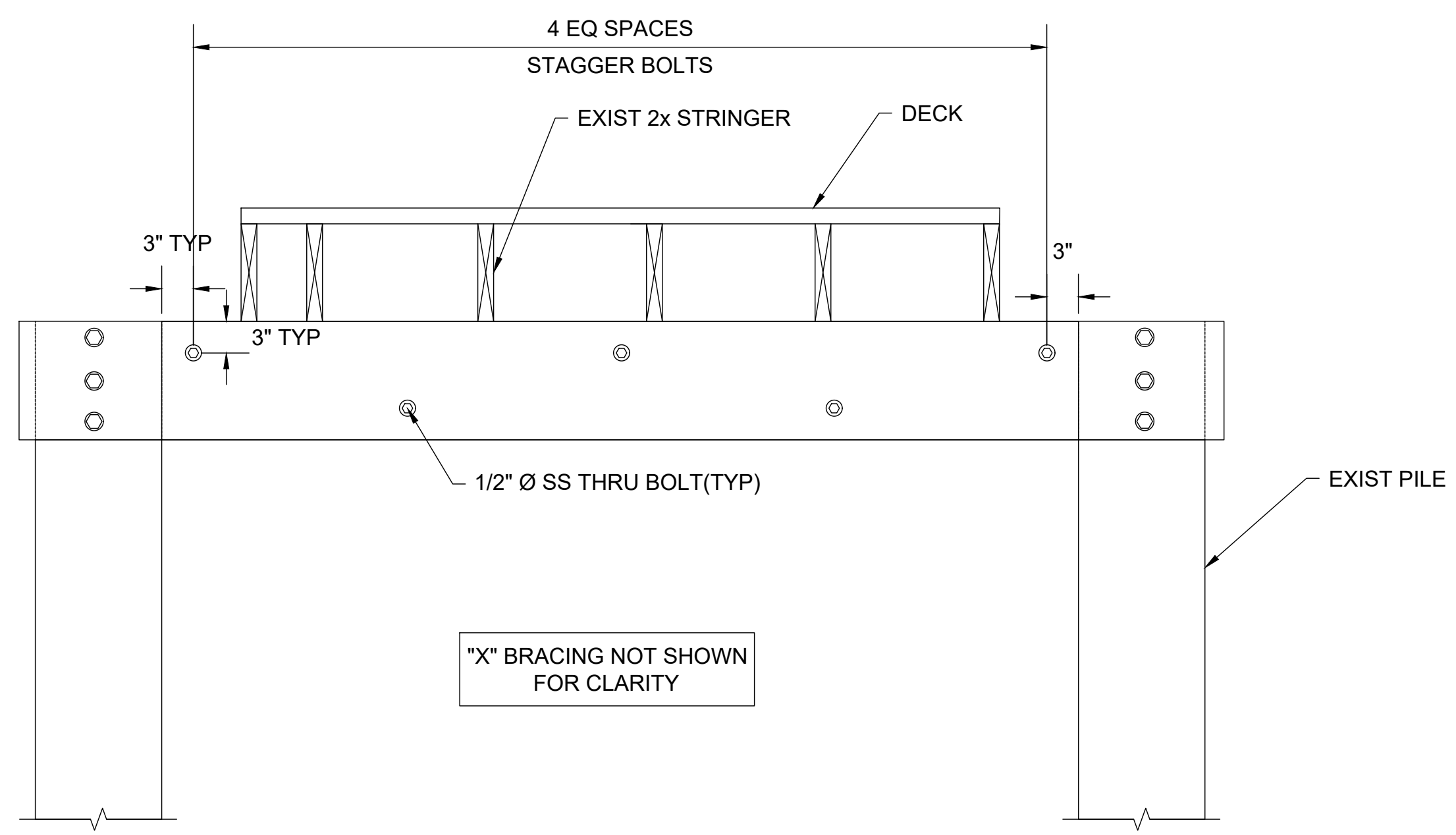
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Sheet Title

Details

Project No. _____ Drawing No. _____
 EDBH00123
 Date 10.06.23
 Scale Not to Scale **S4.1**

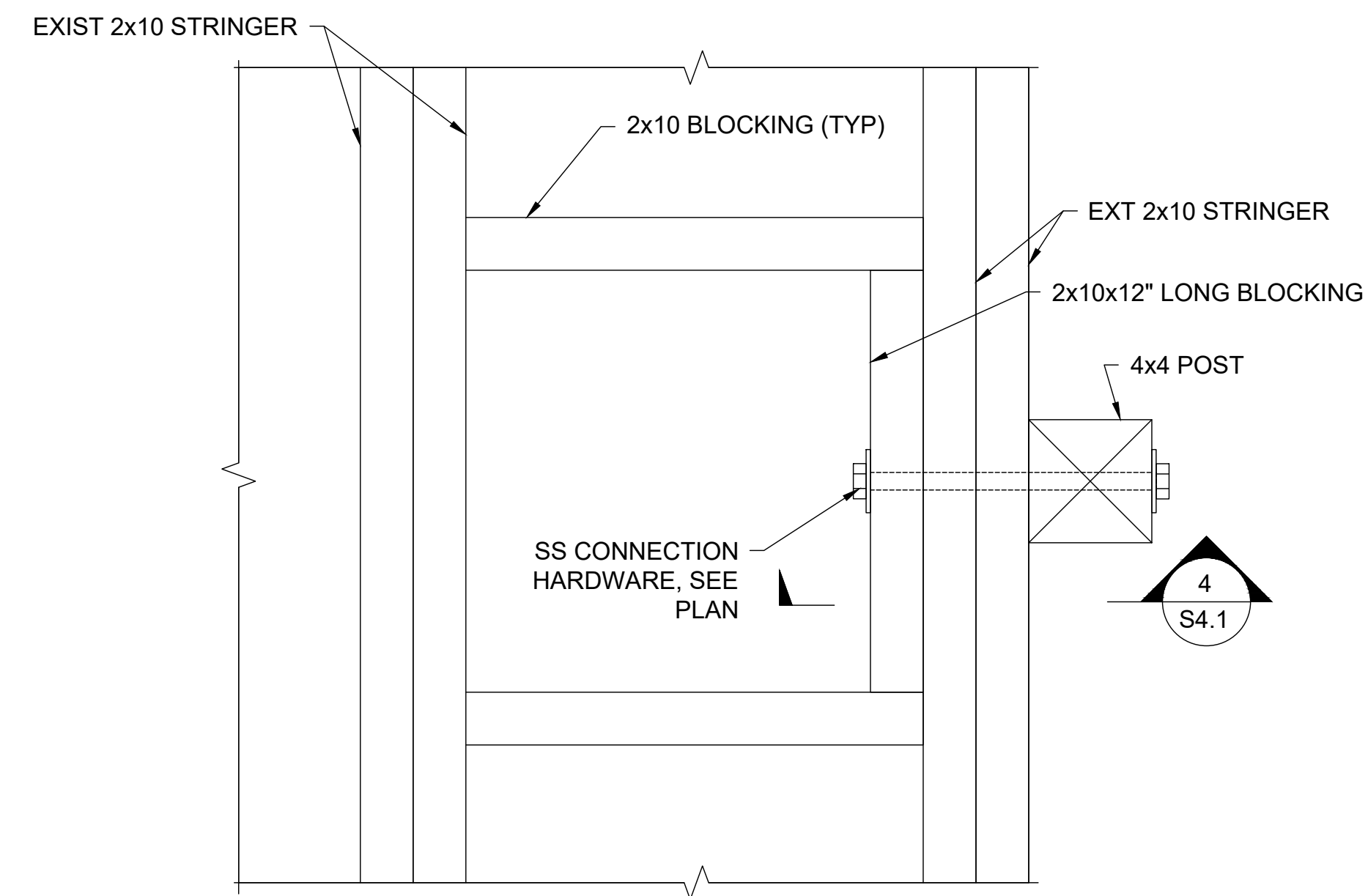
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DETAIL: SISTERED PILE CAP

SCALE: 1" = 1'

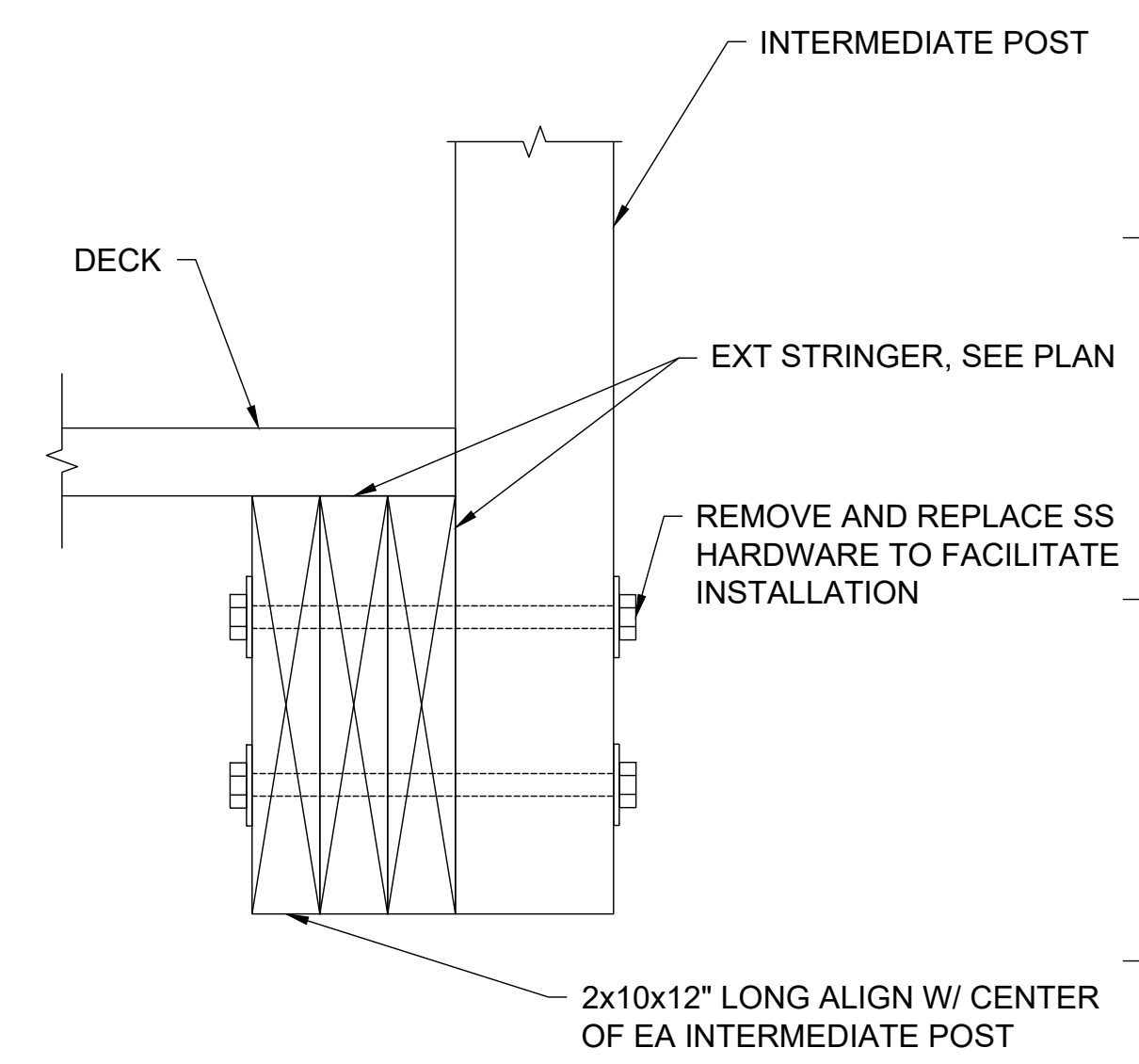
1
S4.1



PARTIAL PLAN: CONNECTION AT INTERMEDIATE POST

SCALE: 3" = 1'

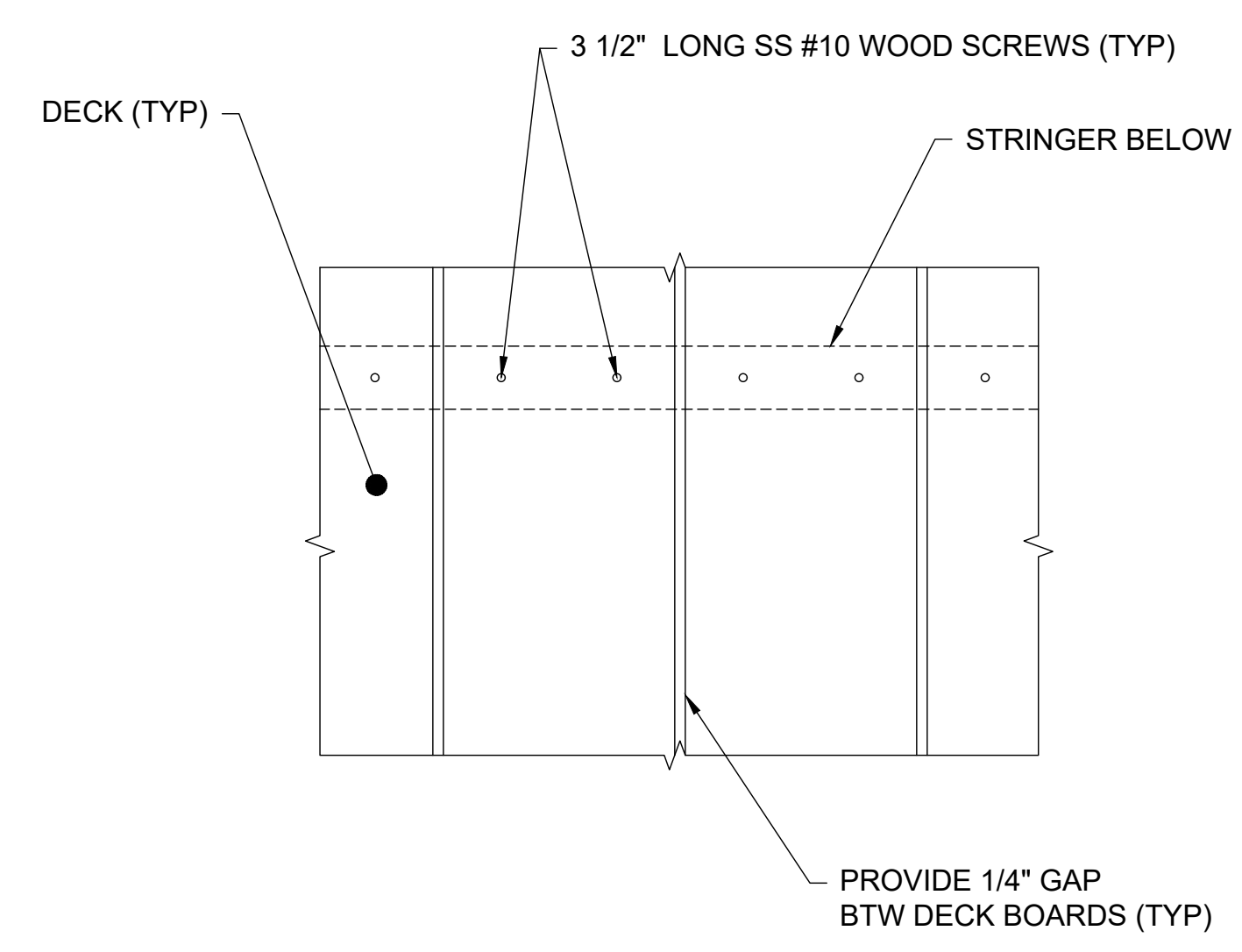
3
S4.1



DETAIL: SISTERED PILE CAP

SCALE: 3" = 1'

4
S4.1



DETAIL: DECK ATTACHMENT PATTERN

SCALE: 3" = 1'

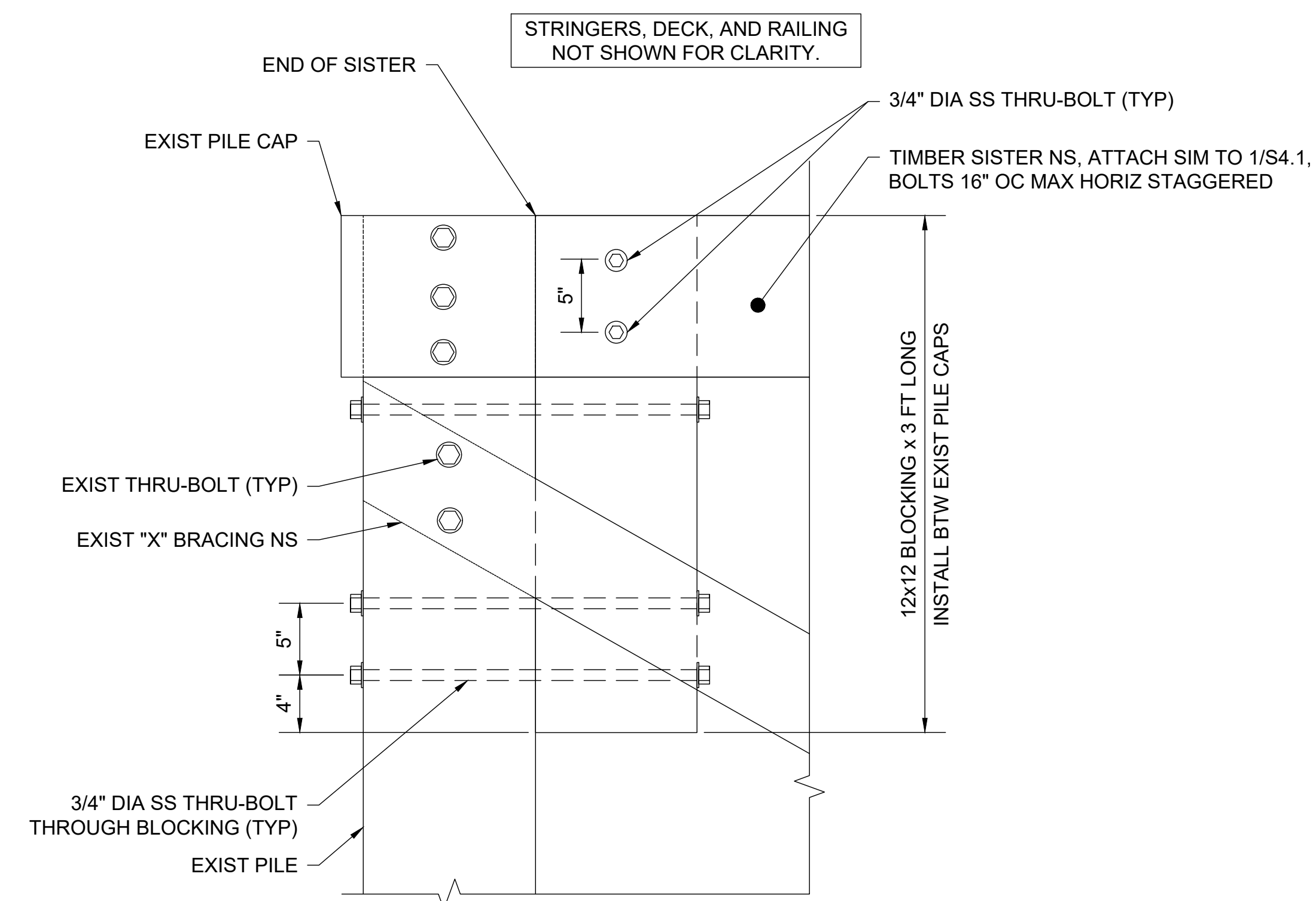
2
S4.1

- REMOVE EXISTING TIMBER "X" BRACING, CUTTING THE EXISTING THROUGH-BOLTS AT THE FACE OF THE PILE.
- COAT EACH EXPOSED END OF THE CUT BOLTS WITH A MARINE GRADE EPOXY MASTIC SUCH AS SEASHIELD SZ BY DENSO OR APPROVED EQUAL.
- FOLLOWING INSTALLATION OF PILE JACKET SYSTEM, INSTALL NEW "X" BRACING WITH ONE 3/4" DIAMETER STAINLESS STEEL THROUGH BOLT AT EACH END; ALIGN THE BOLT WITH THE CENTERLINE OF THE PILE AND SHIFT VERTICALLY SUCH THAT AT LEAST 3" IS PROVIDED BETWEEN THE NEW BOLT AND EXISTING HARDWARE. REFER TO JACKET MANUFACTURER FOR DIRECTION REGARDING INSTALLING HARDWARE THROUGH THE JACKET SYSTEM AND SEALING PENETRATIONS.

DETAIL: "X" BRACING REPLACEMENT

SCALE: NOT TO SCALE

5
S4.1



DETAIL: PIER HEAD PILE CAP BLOCKING AND SISTER

SCALE: NOT TO SCALE

CONTRACTOR OPTION - SEE 002 ON S3.0

6
S4.1

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