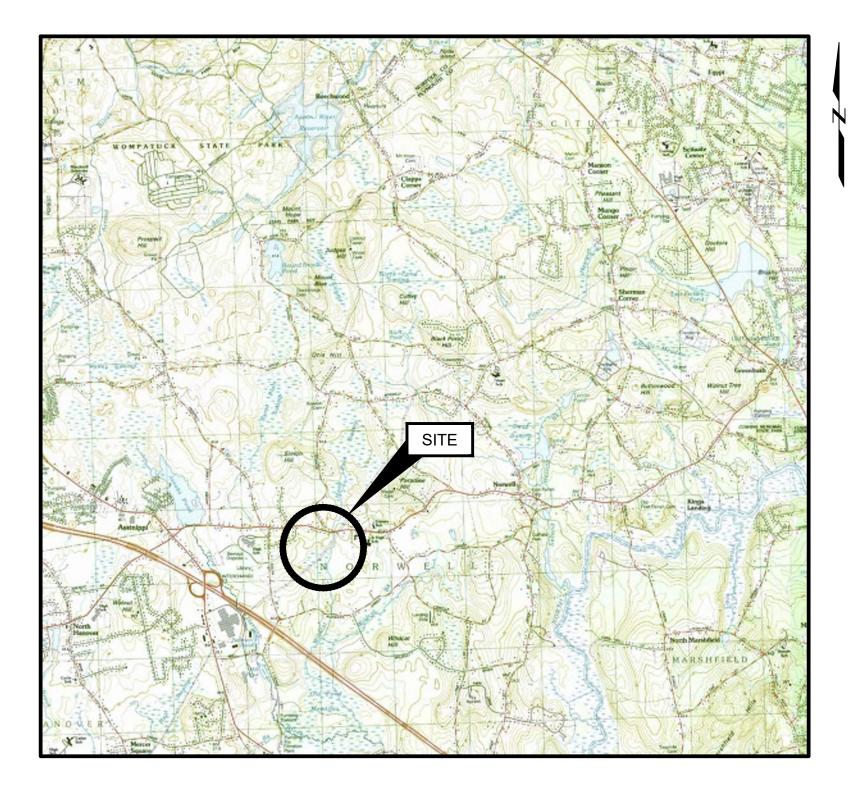


STATE or COUNTY MAP (NOT TO SCALE)

THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, IS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF GEI CONSULTANTS AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF GEI CONSULTANTS.

NORWELL BOARDWALK RECONSTRUCTION

NORWELL BOARDWALK **310 MAIN STREET** NORWELL, MA 02061 **APRIL 2025**



| SHEET NO |
|----------|
| 1 |
| 2 |
| 3 |
| 4 |
| 5 |
| 6 |
| 7 |
| 8 |
| 9 |
| 10 |
| 11 |
| 12 |
| 13 |
| 14 |
| 15 |
| 16 |
| |

SITE LOCATION MAP (NOT TO SCALE)

PREPARED FOR:

TOWN OF NORWELL 310 MAIN STREET NORWELL, MA 02061 (781)659-8042

PREPARED BY:

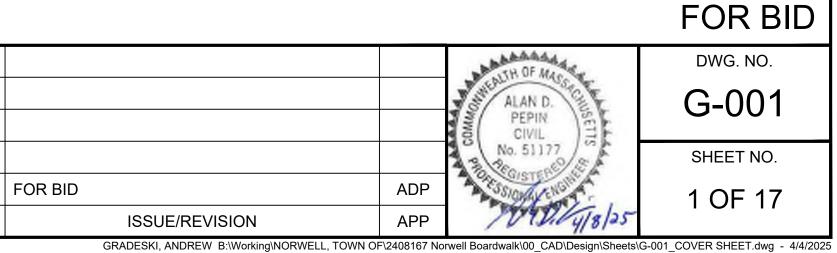
GEI CONSULTANTS, INC. 124 GROVE STREET, SUITE 300 FRANKLIN, MA 02038 (774)277-6001



| 0 | 4/8/2025 | |
|-----|----------|--|
| NO. | DATE | |
| | | |

GEI PROJECT NO. 2408167

| SHEET INDEX | | | | | |
|-----------------|---------------------------------------|--|--|--|--|
| DRAWING NO. | TITLE | | | | |
| G-001 | COVER SHEET | | | | |
| G-002 | GENERAL NOTES | | | | |
| G-003 | SPECIFICATIONS | | | | |
| G-101 | OVERALL SITE PLAN & STAGING LOCATIONS | | | | |
| V-101 | BOARDWALK A EXISTING CONDITIONS PLAN | | | | |
| V-102 | BOARDWALK B EXISTING CONDITIONS PLAN | | | | |
| V-103 | BOARDWALK C EXISTING CONDITIONS PLAN | | | | |
| V-501 | EXISTING BOARDWALK DETAILS | | | | |
| CD-101 | DEMOLITION PLAN | | | | |
| CD-501 | DEMOLITION DETAILS | | | | |
| C-101 | BOARDWALK A RECONSTRUCTION PLAN | | | | |
| C-102 | BOARDWALK B RECONSTRUCTION PLAN | | | | |
| C-103 | BOARDWALK C RECONSTRUCTION PLAN | | | | |
| C-301 | BOARDWALK RECONSTRUCTION SECTIONS | | | | |
| C-501 | BOARDWALK DETAILS SHEET 1 OF 2 | | | | |
| C-502 | BOARDWALK DETAILS SHEET 2 OF 2 | | | | |
| C-503 | GUARDRAIL & CURB DETAILS | | | | |



OSHA REQUIREMENTS:

1. PURSUANT TO M.G.L. c.30, §39S, ANY PERSON SIGNING A CONTRACT TO WORK ON A PUBLIC BUILDING OR PUBLIC WORKS PROJECT ESTIMATED TO COST MORE THAN \$10,000, MUST CERTIFY UNDER THE PAINS AND PENALTIES OF PERJURY THAT ALL EMPLOYEES EMPLOYED ON THE WORKSITE, OR IN WORK SUBJECT TO THE BID, HAVE SUCCESSFULLY COMPLETED AT LEAST TEN HOURS OF OSHA APPROVED TRAINING. PROOF OF OSHA CERTIFICATION OF ALL WORKERS ONSITE WILL BE REQUIRED BY TOWN OF NORWELL PRIOR TO THE START OF WORK.

SURVEY CONTROL AND BASELINES

- 1. ELEVATIONS SHOWN ARE IN FEET AND TENTHS AND ARE BASED ON A PROJECT SPECIFIC REFERENCE DATUM.
- 2. NO CONTROL POINTS HAVE BEEN ESTABLISHED. CONTRACTOR SHALL USE EXISTING SITE FEATURES WHICH ARE TO BE REUSED AS PART OF THE RECONSTRUCTION (ABUTMENTS AND HELICAL PILES).
- 3. CODES:
- 1. AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)
- 2. AMERICAN WELDING SOCIETY (AWS D1.4-2011)
- 3. AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC360-10)
- 4. AMERICAN CONCRETE INSTITUTE (ACI318-14)
- 5. AMERICAN WOOD COUNCIL (ANSI/AWC NDS-2015)
- 6. MASSACHUSETTS STATE BUILDING CODE (CMR 780 9TH EDITION)
- 7. INTERNATIONAL BUILDING CODE (IBC 2015)

SITE ACCESS:

- 1. THREE ACCESS POINTS ARE AVAILABLE TO THE CONTRACTOR
- 1.1. (1) CUSHING HILL ROAD
- 1.2. (2) NATIONAL GRID EASEMENT FROM MAIN STREET (RT-123)
- 1.3. (3) THE NORWELL DEPARTMENT OF PUBLIC WORKS
- SITE PREPARATION:
- 1. THE CONTRACTOR SHALL COMPLY WITH MA GENERAL LAWS CHAPTER 82, SECTION 40, AS AMENDED, WHICH STATES THAT NO ONE MAY EXCAVATE IN THE COMMONWEALTH OF MASSACHUSETTS EXCEPT IN AN EMERGENCY WITHOUT 72 HOURS NOTICE, EXCLUSIVE OF SATURDAYS, SUNDAYS AND LEGAL HOLIDAYS, TO NATURAL GAS PIPELINE COMPANIES, AND MUNICIPAL UTILITY DEPARTMENTS THAT SUPPLY GAS, ELECTRICITY, TELEPHONE, OR CABLE TELEVISION SERVICE IN OR TO THE CITY OR TOWN WHERE THE EXCAVATION IS TO BE MADE. THE CONTRACTOR SHALL CALL "DIG SAFE" AT 1-888-DIG-SAFE.
- 2. THE CONTRACTOR SHALL COMPLY WITH MA GENERAL LAWS CHAPTER 82A, ALSO REFERRED TO AS JACKIE'S LAW, AS DETAILED IN SECTION 520 CMR 14.00 OF THE CODE OF MASSACHUSETTS REGULATIONS.
- 3. CONTRACTOR SHALL INSTALL ALL SIGNAGE PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES INCLUDING DEP FILE NUMBER, FEDERAL, AND STATE MANDATED WORK PLACE SIGNAGE
- 4. THE CONTRACTOR SHALL PROVIDE TRASH, SANITARY FACILITIES, ANY ADDITIONAL NECESSARY FACILITIES FOR THE WORK PLACE.
- 5. EXISTING STRUCTURES AND AMENITIES WITHIN THE PROXIMITY OF THE WORK SHALL BE PROTECTED TO PREVENT ACCIDENTAL DAMAGE BY CONSTRUCTION ACTIVITIES
- 6. THE CONTRACTOR SHALL PROVIDE A PHOTOGRAPHIC AND VIDEO RECORD OF EXISTING SITE CONDITIONS OF THE WORK AREA, BUILDINGS AND AREAS DIRECTLY ADJACENT TO WORK AREAS WITHIN 100 FEET OF LIMIT OF CONSTRUCTION PRIOR TO COMMENCING ANY WORK.
- DISCOVERY OF INCONSISTENT SITE INFORMATION OR CONDITIONS SHALL BE IMMEDIATELY CONVEYED TO THE RESIDENT ENGINEER PRIOR TO COMMENCING OR CONTINUING CONSTRUCTION.
- 8. THE CONTRACTOR SHALL FIELD VERIFY EXACT LOCATIONS OF UTILITIES AND EXISTING STRUCTURES AS MAY BE REQUIRED.
- 9. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES OCCURRING AS A RESULT OF THE CONTRACTOR'S FAILURE TO LOCATE AND PROTECT UNDERGROUND UTILITIES AND STRUCTURES. ALL REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE.
- 10. CONTRACTOR SHALL SUPPLY ALL NECESSARY TEMPORARY UTILITIES FOR CONSTRUCTION INCLUDING WATER, POWER, LIGHTING, DATA AND TELEPHONE.
- 11. CONTRACTOR SHALL READ AND UNDERSTAND ALL REGULATORY CONDITIONS ASSOCIATED WITH THE PROJECT AND SHALL COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS AND PERMIT CONDITIONS.
- 12. CONTRACTOR IS RESPONSIBLE FOR SITE SAFETY AND SHALL PROVIDE SIGNAGE, TEMPORARY BARRIERS, FENCING. OR EQUIVALENT TO PREVENT UNAUTHORIZED ACCESS INTO WORK AREAS AT ALL TIMES.
- 13. ALL CONSTRUCTION ACTIVITY SHALL BE IN ACCORDANCE WITH OSHA STANDARDS AND LOCAL AND STATE REGULATIONS.
- 14. CONTRACTOR IS RESPONSIBLE FOR SURVEY OF ALL HELICAL SHAFTS. SURVEY SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL OF ADA COMPLIANCE AS WELL AS HELICALS REQUIRING MODIFICATION.

EXISTING SITE CONDITIONS:

- EXISTING BOARDWALK LAYOUT AND CONSTRUCTION BASED ON FIELD OBSERVATIONS AND MEASUREMENTS PERFORMED BY GEI CONSULTANTS, INC ON NOVEMBER 11, AND NOVEMBER 13, 2024. LAYOUT OF FRAMING MEMBERS SHOULD BE CONSIDERED SCHEMATIC (I.E. EXACT LOCATIONS OF HELICAL PILES AND BENT SPACING VARY). CONTRACTOR SHALL PERFORM FIELD VERIFICATION AS REQUIRED PRIOR TO DEMOLITION AND ORDERING MATERIALS.
- 2. THE TOWN HAS DEMOLISHED THE TIMBER STRUCTURE AND ONLY THE ABUTMENT AND HELICAL PILES REMAIN.
- 3. AERIAL IMAGERY FROM NEARMAP.COM DOWNLOADED ON NOVEMBER 14, 2024. AERIAL IMAGERY TAKEN ON APRIL 10, 2024.
- 4. FLOODPLAIN INFORMATION WAS OBTAINED FROM THE FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY

| | | Designed: | AJG |
|----------------------------------------|---------------------|-------------|-------|
| Attention: | BALLANTH OF MASSION | Drawn: | AJG |
| | PEPIN CIVIL | Checked: | ADP |
| If this scale bar does not measure | No. 51177 | Approved: | ADP |
| 1" then drawing is not original scale. | the state how | P.E. No: | 51177 |
| | 10 (510 4/8/23 | GEI Project | 24081 |

NOT DETERMINED).

CONCRETE:

TIMBER:

PANEL NO. 25023C0114K DATED JUNE 6, 2021. THE SITE IS LOCATED IN ZONE A (BASE FLOOD ELEVATIONS

STRUCTURAL STEEL AND MISCELLANEOUS METALS: 1. SEE SPECIFICATIONS; SHEET G-003.

1. GROUT SHALL BE A FREE-FLOWING, CEMENTITIOUS, HIGH STRENGTH, NON-SHRINK GROUT SUCH AS SIKA GROUT-350, OR APPROVED EQUAL.

2. EPOXY FOR ANCHORS SHALL BE A TWO-PART INJECTABLE EPOXY SUITABLE FOR USE IN CRACKED CONCRETE SUCH AS HIT-RE 500 V3. OR APPROVED EQUAL.

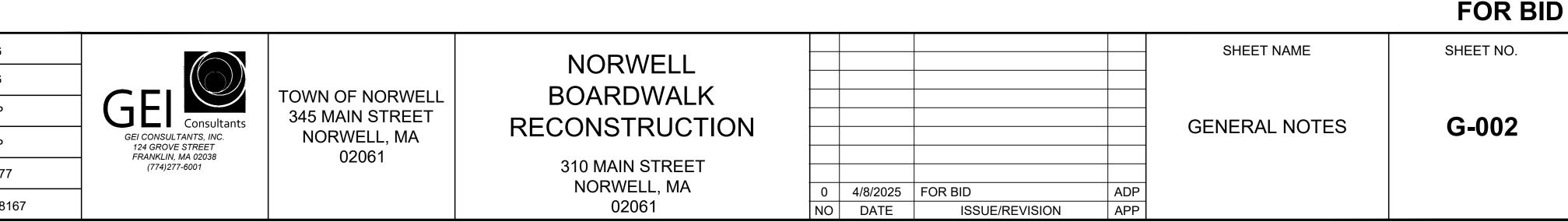
1. SEE SPECIFICATIONS; SHEET G-003.

DESIGN CRITERIA

UNIFORM DISTRIBUTED LIVE LOAD CONCENTRATED LOADS UTILITY VEHICLE AS FOLLOWS: **GROSS VEHICLE WEIGHT RATING** FRONT AXLE: REAR AXLE LOAD DISTRIE WHEEL CONTACT FOOTPRINT (REAR WH WHEEL BASE TREAD CENTERS

DEFLECTION CRITERIA LIVE LOAD + DEAD LOAD LIVE LOAD

GROUND SNOW LOAD **BASIC WIND SPEED**



| | 100 PSF N.A. |
|-----------------|-----------------------------------------------------------------------|
| BUTION HEEL) | 3,500 LB 25:75 6"LX11"W 84.5" FRONT: 52.8" REAR: 49.6" |
| | L/240 L/360 |
| | 35 PSF |

133 MPH

| ABBREVIATION | ITEM |
|--------------|--------------------------------------------|
| (TYP) | TYPICAL |
| APPROX. | APPROXIMATE |
| CF | CUBIC FOOT |
| CL | CENTER LINE |
| CONC. | CONCRETE |
| DBL. | DOUBLE |
| DIA. | DIAMETER |
| DTL. | DETAIL |
| DWG. | DRAWING |
| EA. | EACH |
| EL. | ELEVATION |
| EMB. | EMBEDMENT |
| ES | EQUALLY SPACED |
| EX. | EXISTING |
| FIN. | FINISHED |
| HDG | HOT DIP GALVANIZED |
| HDWE | HARDWARE |
| HORIZ. | HORIZONTAL |
| ID | INSIDE DIAMETER |
| KSI | KIPS PER SQUARE INCH |
| LBS | POUNDS |
| MAX. | MAXIMUM |
| MIN. | MINIMUM |
| NIC | NOT IN CONTRACT |
| NOM. | NOMINALLY |
| NTS | NOT TO SCALE |
| 00 | ON CENTER |
| OD | OUTSIDE DIAMETER |
| PSF | POUNDS PER SQUARE FOOT |
| PSI | POUNDS PER SQUARE INCH |
| PT | POUNDS PER SQUARE INCH PRESSURE TREATED |
| PVMT. | PRESSURE TREATED |
| | |
| R | RADIUS |
| REQ'D | REQUIRED |
| REV | REVISION |
| RGH. | ROUGH |
| SCH. | SCHEDULE |
| SF | SQUARE FEET |
| SLV | SLEEVE |
| SS | STAINLESS STEEL |
| SYM. | SYMMETRIC |
| SYP | SOUTHERN YELLOW PINE |
| T&B | TOP & BOTTOM |
| THK. | THICK |
| THRD | THREADED |
| ТО | TOP OF |
| TOL | TOLERANCE |
| TRAN. | TRANSVERSE |
| UNO | UNLESS NOTED OTHERWISE |
| VIF | VERIFY IN FIELD |
| W/ | WITH |
| W/O | WITHOUT |
| LG | LONG |
| | |

| LEGEND: | | |
|--------------------------------------|------------------|-----|
| BENT ID | | |
| BATTERED HELICAL PILE | \triangleright | |
| EXISTING HEIGHT (BOARDWALK TO GRADE) | Х | 26' |

| <u>05 50 00 ME</u> 1. PART 1 | TAL FABRICATIONS GENERAL | | | | 1.2 |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------------------------|-----------|-----------------------------|
| | ALITY ASSURANCE, | | | | 1.2 |
| 1.1.1. 1.1.1.1. | EXCEPT AS NOTED ELSEWHERE, WORK SHALL CONFORM AMERICAN SOCIETY FOR TESTING AND MATERIALS (| | | | 1.2 |
| 1.1.1.2. | | | | | |
| 1.1.1.3. 1.2. SU | AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AI BMITTALS | SC), LATEST EDITIO | JN. | | 1.2 |
| 1.2.1. | SUBMIT FOR APPROVAL PRIOR TO FABRICATION ALL INF COMPONENT PARTS. INDICATE SIZE AND WEIGHT OF ME CONNECTIONS, AND THE TYPE, SIZE, AND EXTENT OF AL WELDING SOCIETY WELDING SYMBOLS. APPROVAL OF S | EMBERS, TYPE AND L WELDS, AND WE | D LOCATION OF SHOP AND FIE LDING SEQUENCES. USE AME | LD | 1.3. 1.3. |
| 1.2.2. | ARRANGEMENT OF PRINCIPAL AND AUXILIARY MEMBERS DIMENSIONS SHOWN ON SHOP DRAWING SHALL BE THE THE CONTRACTOR SHALL USE ONLY CERTIFIED WELDER | S AND STRENGTH (RESPONSIBILITY C | OF CONNECTIONS. ANY ERRO OF THE CONTRACTOR. | RS IN | 2. <u>PA</u> 2.1. 2.1 |
| 1.2.3. | WELDING PERFORMED IN CONNECTION WITH THE WORK OF THIS SECTION. EACH WELDER SHALL BE CERTIFIED FOR THE PARTICULAR WORK, PRIOR TO COMMENCING THE WORK WHICH MUST BE ACCOMPLISHED.21.2.3.UPON COMPLETION OF THIS PORTION OF THE WORK, AND AS A CONDITION OF ITS ACCEPTANCE, THE2 | | | | |
| 4.0.4 | CONTRACTOR SHALL DELIVER TO THE ENGINEER A LETT FABRICATING FIRM OR FIRMS CERTIFYING THAT ALL FAB ACCORDANCE WITH THIS SECTION OF THESE SPECIFICA | RICATED METAL H | | PLETE | 2.1 2.1 |
| 1.2.4. 1.1. MA | PART 2 PRODUCTS TERIALS | | | | 2.1 |
| 1.1.1. | ALL STRUCTURAL STEEL, INCLUDING ANGLES AND PLAT | ES SHALL CONFOR | RM TO ASTM A36 GR. 36 UNLES | S | |
| 1.1.2. | OTHERWISE NOTED. ALL STRUCTURAL STEEL PIPING SHALL CONFORM TO AS | STM A252, GRADE 3 | UNLESS OTHERWISE NOTED. | | 2.1 |
| 1.1.3. | ALL HOLLOW STRUCTURAL TUBE SECTIONS SHALL CONF NOTED. | FORM TO ASTM A-5 | 500 GRADE B, UNLESS OTHERV | | 2.1 2.1 |
| 1.1.4. | ALL STEEL ITEMS UNDER THIS SECTION SHALL BE GALVA CONTRACT DRAWINGS. GALVANIZING SHALL BE BY THE SPECIFICATIONS A-123 AND A-153.A. | HOT DIP METHOD | | | 2.1 2.1 |
| | WELD CONSUMABLES SHALL CONFORM TO AWS E70XX (EXECUTION | GRADE. | | | 3. <u>PA</u> |
| 2.1. FAI 2.1.1. | 3RICATION FABRICATE PRODUCTS IN A FULLY-EQUIPPED FACILITY O FABRICATION WORK. ALL WORK SHALL BE STRAIGHT AN DEFECTS. JOINTS, COVERS, COPES, AND MITERS SHALL | ID TRUE, AND FREE | E FROM WARPAGE AND OTHER | २ | 3.1. 3.1 3.1 |
| 2.1.2. | AND FITTED. CARRY OUT BOLTING AND WELDING IN ACCORDANCE WI CONSIDERATION FOR STRENGTH AND APPEARANCE OF | | , | ONE BY | 3.1 |
| 2.1.3. | CERTIFIED WELDERS. ALL STEEL WILL BE FREE FROM IMPERFECTIONS, DIRT, L SUBSTANCES. | OOSE SCALE, PAI | NT, OIL, OR OTHER FOREIGN | | 3.1 |
| 2.1.4. | ALL MATERIAL SHALL BE FABRICATED TO WITHIN + OR - SHOWN ON THE DRAWINGS. | | | S | 3.1 |
| 2.1.5. 2.1.6. | 2.1.5. HOLES FOR BOLTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS AND SHALL BE DRILLED 1/8" IN DIAMETER LARGER THAN THE GALVANIZED BOLT. 2.1.6. ALL FABRICATION UNDER THIS SECTION SHALL BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM | | | | |
| 2.1.7. | SPECIFICATIONS A-123 AND A-153, UNLESS NOTED OTHE PRIOR TO FABRICATING ANY STRUCTURAL STEEL MEMBI MEASUREMENTS OF EACH UNIT TO ACCOUNT FOR THE S | RWISE ON THE CO ERS, CONTRACTOR | NTRACT DOCUMENTS R SHALL CONFIRM THE EXACT | | 3.1 3.1 |
| 2.2. INS | CONDITION. TALLATION | | | | 3.1 |
| 2.2.1. | STORE MATERIALS ON SKIDS, NOT ON GROUND, IN SUCH | H A FASHION AS TO | PREVENT BENDING, TWISTIN | G, OR | 3.1 |
| 2.2.2. | SIMILAR DAMAGE. DO NOT DUMP STEEL OFF TRUCK. CLEAN INSTALLED WORK FROM WELD SPATTER, DIRT AN WORK AS REQUIRED FROM DAMAGE BY SUBSEQUENT B | | | ALLED | 3.1 |
| 2.2.3. | JOINTS ARE TO BE SQUARE, TIGHT, AND WELL-FASTENE WITH THE CONTRACT DRAWINGS. | | | NCE | 3.2. |
| 2.3. DE 2.3.1. | FECTIVE WORK ANY PARTS DAMAGED OR IMPROPERLY FABRICATED SH | ALL BE REMOVED | AND REPLACED OR CORRECT | FD AS | 3.2 |
| 2.0.1. | DIRECTED BY THE ENGINEER AT NO ADDITIONAL COST T | - | | | 3.2 3.2 |
| <u>05 50 13 MI</u> 1. PART 1 | <u>SCELLANEOUS METALS</u> GENERAL | | | | 3.2 |
| 1.1. QU | ALITY ASSURANCE | | | | 3.2 |
| 1.1.1. 1.1.1.1. | | | | | 3.2 |
| 1.1.1.2. 1.1.1.3. | AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AI | SC), LATEST EDITIO | ON. | | 3.2 |
| 1.2. SU 1.2.1. | 3MITTALS SUBMIT FOR APPROVAL PRIOR TO FABRICATION ALL INF | ORMATION NECES | SARY FOR THE FABRICATION | OF THE | |
| | COMPONENT PARTS. INDICATE SIZE AND WEIGHT OF ME | EMBERS, TYPE AND | LOCATION OF SHOP AND FIE | LD | 3.3. 3.3 |
| | CONNECTIONS, AND THE TYPE, SIZE, AND EXTENT OF AL WELDING SOCIETY WELDING SYMBOLS. APPROVAL OF S | HOP DRAWINGS W | ILL BE FOR SIZE AND | | 3.3 |
| | ARRANGEMENT OF PRINCIPAL AND AUXILIARY MEMBERS DIMENSIONS SHOWN ON SHOP DRAWING SHALL BE THE | | | RS IN | 3.4. |
| 1.2.2. | CERTIFICATE OF COMPLIANCE WITH APPLICABLE ASTM | SPECIFICATIONS F | OR ALL GALVANIZED ITEMS SH | IALL | 3.4 |
| 1.2.3. | BE SUBMITTED TO THE ENGINEER WITH ALL MATERIALS MANUFACTURER'S LITERATURE, SPECIFICATIONS, AND C | CERTIFICATION OF | COMPLIANCE WITH APPLICAB | | 3.4 |
| | ASTM SPECIFICATIONS FOR ALL FASTENERS, WIRE ROPI CONNECTION ITEMS IDENTIFIED WITHIN THE CONTRACT | | ES, EXPANSION BOLTS, AND (| OTHER | 3.4 |
| | | | | | 3.4 3.4 |
| | | | | Designed: | AJG |
| | | Attention: | ALAN D. PEPIN CIVIL No. 51177 | Drawn: | AJG |
| If this scale har | | | ADP | | |
| | | If this scale bar does not measure | No. 51177 | Approved: | ADP |

1" then drawing is

not original scale.

| .4. | | | - | HE SHIELDED ARC PROCESS FOR ALL SECTION. EACH WELDER SHALL BE | | EAVY TIMBER CO 1 GENERAL |
|------------|--------|---------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------|---------------------|------------------------------|
| _ | CERT | TIFIED FOR THE PARTICULAR V | VORK, PRIOR TO COMMENCING | G THE WORK WHICH MUST BE ACCOMPLISHED. | | UALITY ASSURA |
| .5. | | | | ONDITION OF ITS ACCEPTANCE, THE ED BY AN OFFICIAL OF THE METAL | 1.1.1. | EXCEPT AS N SPECIFICATIO |
| | | CATING FIRM OR FIRMS CERT | | METAL HAS BEEN FABRICATED IN COMPLETE | | SPECIFICATIC |
| .6. | | | TH QUANTITIES AND MATERIAL | SPECIFICATIONS. | | WEST CO |
| | | T HANDLING | | | | WESTER NATIONA |
| .1. | | | | /ITH CARE TO PREVENT DAMAGE TO ANY I DAMAGED COATING WILL BE REJECTED AND | | AMERIC |
| | | ACED AT NO ADDITIONAL COS | | | | AMERICA |
| | PROD | | | | 1.2. Sl 1.2.1. | JBMITTALS CERTIFICATIO |
| MA .1. | | | TION SHALL BE HOT-DIPPED G | ALVANIZED IN ACCORDANCE WITH ASTM | 1.2.1. | CERTIFICATIO |
| | | CIFICATIONS A-123 AND A-153. | | | | RODUCT DELIVE |
| .2. .3. | | NLESS STEEL SHALL BE SERIE | | CONFORM TO ASTM A307, GR. A FOR MILD | 1.3.1. | ALL TIMBER S |
| .3. | | E BOLTS UNLESS OTHERWISE | | JONFORM TO ASTM ASUT, GR. A FOR MILD | 1.3.2. | THE MATERIA |
| .4. | | | | E 316 UNLESS OTHERWISE NOTED. | 1.3.3. | TIMBER SHAL ALL TIMBER S |
| .5. | | ASTENERS GREATER THAN $\frac{1}{2}$ AND A-153. | CAN BE HUT DIPPED GALVAN | IZED ACCORDING TO ASTM SPECIFICATIONS | 1.3.4. 2. PART : | 2 PRODUCTS |
| .6. | | | PED GALVANIZED DRIFT PINS N | MEEINT THE REQUIREMENTS OF ASTM A307, | 2.0.1. | UNLESS OTHE |
| .6. | | | T DIPPED-GAI VANIZED, SUITAF | BLE FOR USE IN PRESSURE-TREATED TIMBER | | SOUTHERN P OR THE EQUI |
| .0. | AND | MEET THE REQUIREMENTS OF | ASTM F1667 | | 2.0.2. | ALL DECKING |
| .7. .8. | | | STEEL SCREWS TYPE 316 STA | AINLESS STEEL. SS FLAT WASHERS, OR DOCK WASHERS | 2.0.3. | SHIMS, IF USE |
| .0. | | RE INDICATED MEETING ASTM | | S FLAT WASHERS, OR DOCK WASHERS | 2.0.4. 2.0.5. | ALL TIMBER S ALL TIMBER F |
| .9. | | | CONFORM TO F1554 GRADE 55 | | | SECTION 05 5 |
| .10. | | DING CONSUMABLES SHALL CO VINGS. | ONFORM TO AWS E70XX GRAD | E. SIZES SHALL BE AS INDICATED ON THE | 2.0.6. | ALL TIMBER S 3 EXECUTION |
| ART 3 | EXECL | | | | | REPARATION |
| | BRICAT | | | | 3.1.1. | PRIOR TO INS |
| .1. | | ICTURAL STEEL FOR BUILDING | | DESIGN, FABRICATION, AND ERECTION OF | 3.2. IN 3.2.1. | STALLATION JOINTS ARE T |
| .2. | | | O STANDARD COMMERCIAL PF | | 5.2.1. | WITH THE CO |
| .3. | | | | LY SHALL BE ACCURATELY FABRICATED TO ROM UNDUE TWISTS, BENDS, WARPING, | 3.2.2. | |
| | DIST | ORTION, AND OTHER IRREGUL | ARITIES. | | 3.2.3. | HAVE A MINIM HOLES FOR B |
| .4. | | | - | OF PRODUCING A HIGH GRADE OF METAL AND FREE FROM WARPAGE AND OTHER | | HOLES SHALL |
| | DEFE | CTS. JOINTS, COVERS, COPE | | JRATELY AND NEATLY CUT, MACHINED, FIELD, | 3.2.4. | THE BOLTS. ALL FASTENE |
| .5. | | FITTED. BY OUT BOI TING AND WEI DING | G IN ACCORDANCE WITH LATE | ST APPROVED METHODS, WITH DUE | 3.2.5. | BOLTS SHALL |
| .0. | CONS | SIDERATION FOR STRENGTH A | | PRODUCT. ALL WELDING SHALL BE DONE BY | | INSTALLED UI DIAMETER BE |
| .6. | | TFIED WELDERS. | | SCALE, PAINT, OIL, OR OTHER FOREIGN | | FITTED WITH |
| .0. | | STANCES. | | | 3.2.6. | WHERE SHOW ALL FASTENE |
| .7. | | IATERIAL SHALL BE FABRICAT | ED TO WITHIN + OR - 1/8 INCH | OF THEIR THEORETICAL DIMENSIONS AS | 3.2.7. | ALL TIMBER S |
| .8. | | | TED AS SHOWN ON THE DRAW | /INGS AND SHALL BE DRILLED 1/8" IN | 3.2.8. | CONTACT SU |
| 0 | | ETER LARGER THAN THE GAL | | | 3.2.9. | TAR PAPER S |
| .9. | | | | GALVANIZED IN ACCORDANCE WITH ASTM IN THE CONTRACT DOCUMENTS. | | |
| .10. | | | | NTRACTOR SHALL CONFIRM THE EXACT FIELD | | IMBER TREATME 1 GENERAL |
| | | DITION. | ACCOUNT FOR THE SUBILE C | HANGES OF INDIVIDUAL UNIT'S FIELD | | UALITY ASSURA |
| | TALLA | - | | | | |
| 2.1. | | ALLATION SHALL CONFORM TO ICTURAL STEEL FOR BUILDING | | E DESIGN, FABRICATION, AND ERECTION OF | 1.1.1. 1.1.2. | AMERICAN SO |
| 2.2. | | | | N THE WORK AS SHOWN ON THE DRAWINGS. | 2. <u>PART 2</u> | 2 PRODUCTS |
| .3. | | UTTING OR BURNING OF STEE NEER. | L SHALL BE DONE TO INSTALL | FASTENERS WITHOUT APPROVAL OF THE | | ATERIALS |
| 2.4. | | | STALLED FULLY IN ACCORDAN | CE WITH MANUFACTURER'S | 2.1.1. | ALL NEW SOL CATEGORY IN |
| | | | OLE DRILLING, CLEANING AND | | 0.4.0 | TREATMENT. |
| 2.5. | | AR DAMAGE. DO NOT DUMP S | | ION AS TO PREVENT BENDING, TWISTING, OR | 2.1.2. 3. PART (| CREOSOTE T 3 EXECUTION |
| 2.6. | | | | R FOREIGN MATERIALS. PROTECT INSTALLED | | REATMENT |
| 2.7. | - | | SE BY SUBSEQUENT BUILDING (, AND WELL-FASTENED WITH A | OPERATIONS. LL MEMBERS ASSEMBLED IN ACCORDANCE | 3.1.1. | PRIOR TO TRI PERMITTED. |
| | WITH | THE CONTRACT DRAWINGS. | , | | 3.1.2. | ALL TIMBER T |
| HO 8.1. | | GALVANIZING ANIZING SHALL BE BY THE HO | T DIP METHOD ACCORDING TO | D ASTM SPECIFICATIONS A-123 AND A-153. | 24.2 | 0.23 POUNDS |
| 5.2. | | | | INT. ZINC RICH PAINT SHALL BE AN ORGANIC | 3.1.3. | SEALING CON COPPER NAP |
| | | -RICH COATING CONTAINING 9 /E WORK | 5% METALLIC ZINC, BY WEIGH | T IN THE DRIED FILM. | 3.1.4. | IPE DECKING |
| DEI .1. | | | DS FOR REJECTION AND SHAL | L BE REMOVED AND REPLACED OR | | RECOMMEND |
| | CORF | RECTED AS DIRECTED BY THE | ENGINEER AT NO ADDITIONAL | | | |
| .2. .3. | | DAMAGED OR IMPROPERLY FA PARTS IMPROPERLY INSTALLE | | | | |
| .4. | | ITEMS FOUND NOT TO HAVE T | | | | |
| .5. | OTHE | ERWISE NOT ACCORDING TO C | CONTRACT DOCUMENTS. | | | |
| | | | | | | |
| | | | | NORWELL | | |
| | | | TOWN OF NORWELL | BOARDWALK | | |
| | | GEI Consultants | 345 MAIN STREET | | | |
| | | GEI CONSULTANTS, INC. 124 GROVE STREET | NORWELL, MA | RECONSTRUCTION | | |
| | | FRANKLIN, MA 02038 | 02061 | | | |

(774)277-6001

P.E. No: 51177

GEI Project 2408167

| 310 MAIN STREE |
|----------------|
| NORWELL, MA |
| 02061 |

| | | | | | FOR BID |
|----|----------|----------------|-----|-----------------|-----------|
| | | | | SHEET NAME | SHEET NO. |
| | | | | | |
| | | | | | |
| | | | | SPECIFICATIONS | G-003 |
| | | | | SI LOI ICATIONS | 6-003 |
| | | | | | |
| | | | | | |
| 0 | 4/8/2025 | FOR BID | ADP | | |
| NO | DATE | ISSUE/REVISION | APP | | |

R CONSTRUCTION:

JRANCE

AS NOTED ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING CODES,

ATIONS AND STANDARDS:

THERN PINE INSPECTION BUREAU (SPIB) ST COAST LUMBER INSPECTION BUREAU (WCLIB)

STERN WOOD PRODUCTS ASSOCIATION (WWPA)

ONAL FOREST PRODUCTS ASSOCIATION (NFPA)

RICAN SOCIETY FOR TESTING AND MATERIALS (ASTM)

RICAN INSTITUTE OF TIMBER CONSTRUCTION (AITC)

CATION OF TIMBER SPECIES

ATION OF TIMBER TREATMENT

LIVERY, STORAGE, AND HANDLING

ER SHALL BE STORED IN STACKS SUCH THAT THERE IS AN AIR SPACE BENEATH THE MATERIAL, AND TO PREVENT THE TIMBER FROM BEING EXPOSED TO STANDING WATER.

ERIAL SHALL BE STORED ON SITE IN AN AREA WHICH WILL BE DESIGNATED BY THE OWNER. HALL BE HANDLED IN AN APPROVED MANNER SUCH THAT THE MATERIAL WILL NOT BE DAMAGED. ER SHALL BE COVERED TO MAINTAIN CONSISTENT COLORING AND FADING BETWEEN PIECES.

OTHERWISE SPECIFIED ON THE CONTRACT DRAWINGS, ALL TIMBER TO BE USED SHALL BE NO 1 RN PINE AS GRADED BY SPIB AND WITH DESIGN VALUES PER NFPA NATIONAL DESIGN SPECIFICATION QUIVALENT FOR DOUGLAS FIR AS GRADED BY WCLIB AND WWPA.

KING SHALL BE TROPICAL HARDWOOD IPE.

USED, SHALL BE COMPOSITE.

ER SHALL BE NEW AND SUPPLIED WITH NOMINAL DIMENSIONS UNLESS OTHERWISE NOTED. ER FASTENERS SHALL MEET ASTM A-307 AND IN CONFORMANCE WITH MISCELLANEOUS METALS, 05 50 13

ER SHALL BE TREATED IN CONFORMANCE WITH TIMBER TREATMENT, SECTION 06 14 00.

INSTALLATION ALL DEMOLITION AFFECTING THE NEW WORK SHALL BE COMPLETED.

RE TO BE SQUARE, TIGHT AND WELL-FASTENED WITH ALL MEMBERS ASSEMBLED IN ACCORDANCE E CONTRACT DRAWINGS.

TO TIMBER CONNECTIONS SHALL BE SEPARATED BY TAR PAPER OR APPROVED EQUIVALENT AND INIMUM 3" OVERHANG ON EITHER SIDE OF THE CONNECTED MEMBER.

OR BOLTS AND DRIFT PINS SHALL BE DRILLED THE SAME SIZE AS THE BOLT BEFORE GALVANIZING. HALL BE SWABBED WITH 2 COATS OF SEALING COMPOUND AS SPECIFIED HEREIN BEFORE INSTALLING

ENERS INSTALLED INTO TROPICAL HARDWOOD LUMBER SHALL BE PREDRILLED. ALL BE TIGHTENED TO PROVIDE A SOLID CONNECTION. NO MORE THAN 1 WASHER SHALL BE D UNDER THE BOLT HEAD OR NUT. BOLT THREADS SHALL PROJECT NO MORE THAN ONE BOLT R BEYOND THE NUT. ALL BOLTS (HEX, LAG, THREADED ANCHOR ROD, OR OTHERWISE) SHALL BE ITH FLAT WASHERS AT THE TIMBER AND STEEL INTERFACES. USE OVERSIZED DOCK WASHERS

HOWN ON THE DRAWINGS. ENERS WHICH THE GENERAL PUBLIC WILL BE EXPOSED TO SHALL BE COUNTERSUNK. ER SHALL BE CUT AND FIT IN SUCH A MANNER AS TO HAVE FULL BEARING OVER THE ENTIRE SURFACE.

FACES OF TIMBER SHALL BE COATED IN ACCORDANCE WITH SECTION 06 14 00 TIMBER TREATMENT. ER SHALL BE INSTALLED AT ANY LOCATION WHERE TWO (2) TIMBER MEMBERS BARE ON EACH OTHER.

TMENT

JRANCE, EXCEPT AS NOTED ALL WORK SHALL, CONFORM TO THE LATEST EDITIONS OF THE ODES. SPECIFICATIONS. AND STANDARDS:

AN SOCIETY FOR TESTING AND MATERIALS (ASTM) D-25.

AN WOOD PRESERVATIVES ASSOCIATION (AWPA).

SOUTHERN YELLOW PINE SHALL BE TREATED WITH MICRONIZED COPPER AZOLE (MCA) UC4B USE RY IN ACCORDANCE WITH AWPA STANDARDS AND SHALL OBTAIN A GREEN TINT DUE TO THE

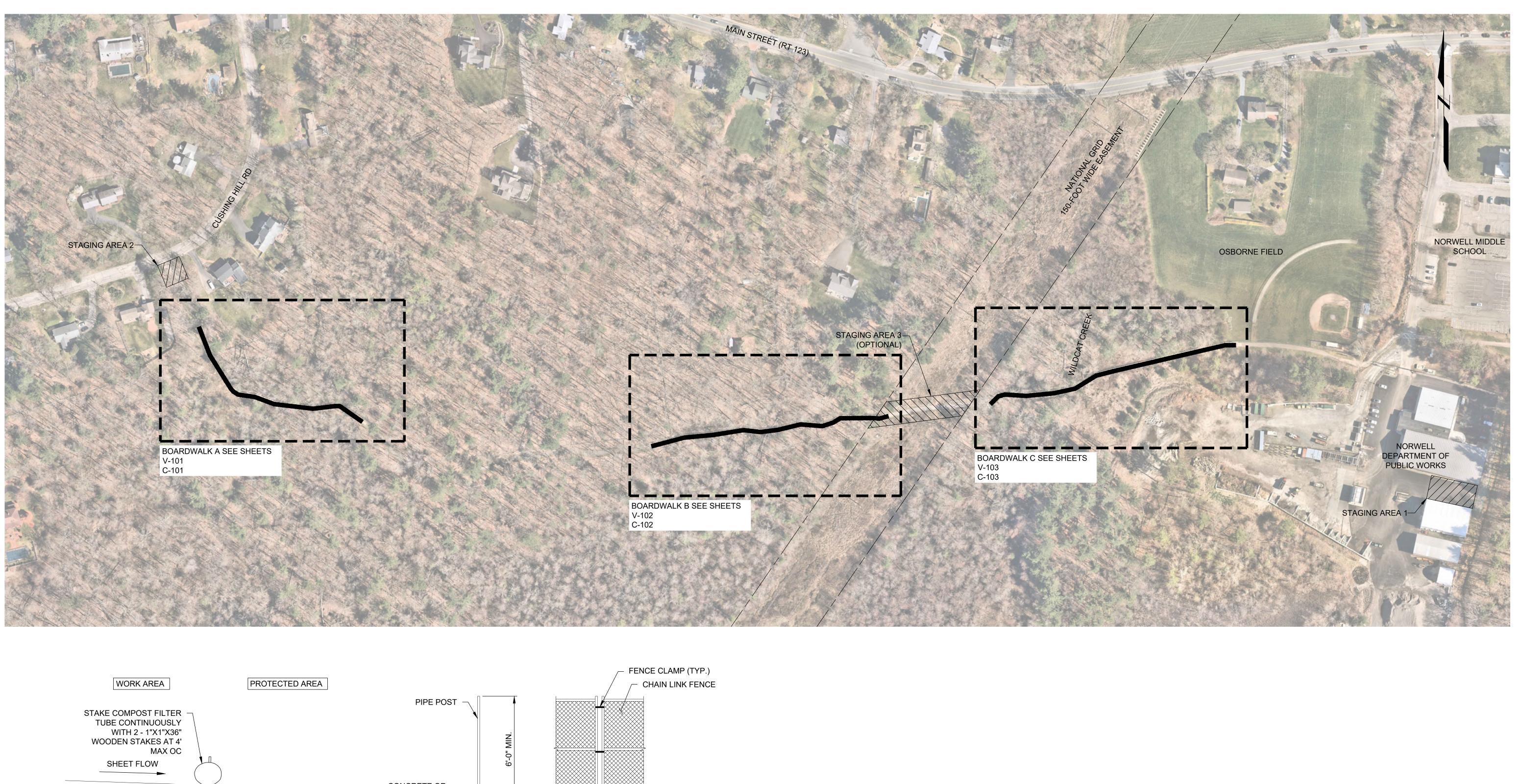
FE TIMBER TREATMENT IS PROHIBITED.

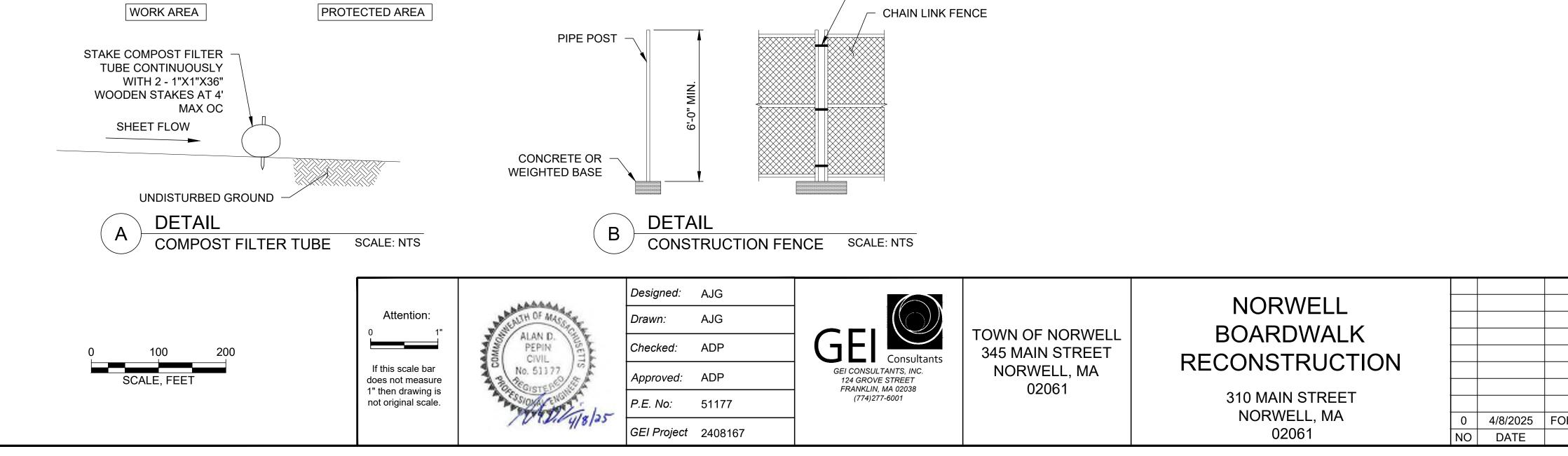
TREATMENT ALL DIMENSION LUMBER SHALL BE KILN-DRIED. CONDITIONING BY HEATING IS NOT

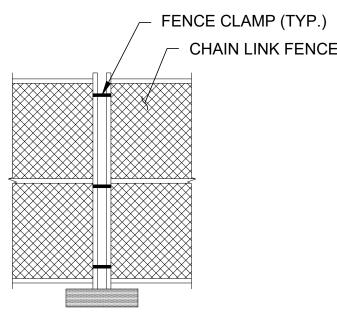
ER TO BE TREATED WITH MICRONIZED COPPER AZOLE (MCA) SHALL BE TREATED TO A RETENTION OF

NDS PER CUBIC FOOT. COMPOUND FOR TREATMENT OF FIELD CUTS AND DRILLED HOLES SHALL BE TWO (2) COATS OF

NAPHTHENATE MEETING AWPA STANDARD P8. ING DOES NOT REQUIRE TREATMENT. ALL CUT ENDS SHALL BE COATED AS PER SUPPLIER ENDATIONS.







| | | SHEET NAME | SHEET NO. | | |
|-------------------------------------------------------------------------------------------------------------------|-----|------------------------------------------|-----------|--|--|
| | | OVERALL SITE PLAN & STAGING LOCATIONS | G-101 | | |
| RBID | ADP | | | | |
| ISSUE/REVISION | APP | | | | |
| B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\G-101_OVERALL SITE PLAN.dwg - 4/4/2025 | | | | | |

FOR BID



NOTES:

- 1. EXISTING BOARDWALK LAYOUT AND CONSTRUCTION BASED ON FIELD OBSERVATIONS AND MEASUREMENTS PERFORMED BY GEI CONSULTANTS, INC ON NOVEMBER 11, AND NOVEMBER 13, 2024. LAYOUT OF FRAMING MEMBERS SHOULD BE CONSIDERED SCHEMATIC (I.E. EXACT LOCATIONS OF HELICAL PILES AND BENT SPACING VARY). CONTRACTOR SHALL PERFORM FIELD VERIFICATION AS REQUIRED PRIOR TO DEMOLITION AND ORDERING MATERIALS.
- 2. AERIAL IMAGERY FROM NEARMAP.COM DOWNLOADED ON NOVEMBER 14, 2024. AERIAL IMAGERY TAKEN ON APRIL 10, 2024.



THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. THE TIMBER STRUCTURE HAS BEEN DEMOLISHED BY THE TOWN AND ALL THAT REMAINS ARE THE PATHWAYS LEADING UP TO THE BOARDWALK, THE CONCRETE ABUTMENTS, AND HELICAL PILE FOUNDATION.

-TIMBER BOARDWALK ON HELICAL PILES - 445'±

EL 85.67

CONCRETE PAVEMENT/ABUTMENT

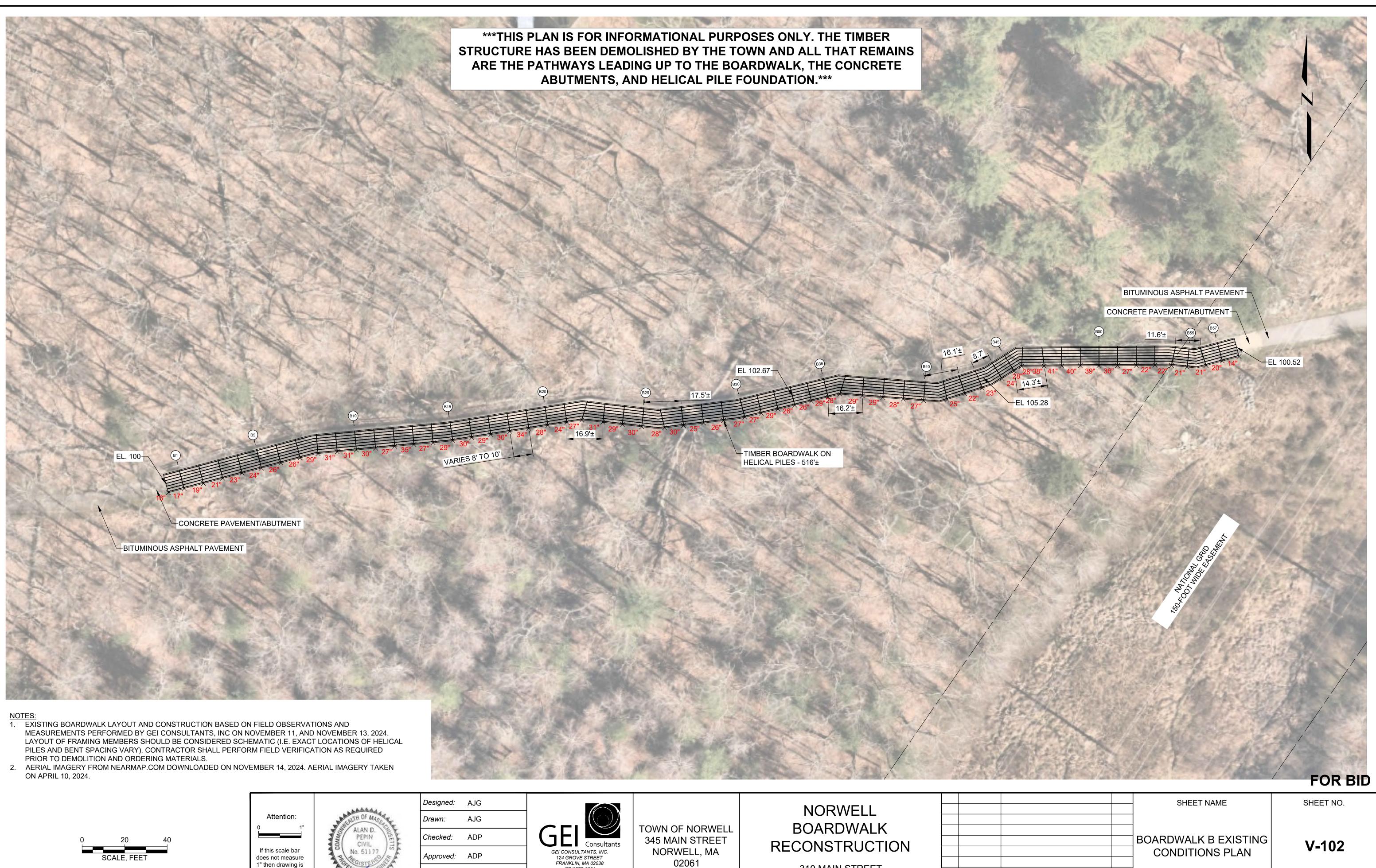
BITUMINOUS ASPHALT PAVEMENT

ISSUE/REVISION

APP



---- B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\EXISTING CONDITION PLANS.dwg - 12/9/2024



not original scale.

P.E. No: 51177 GEI Project 2408167

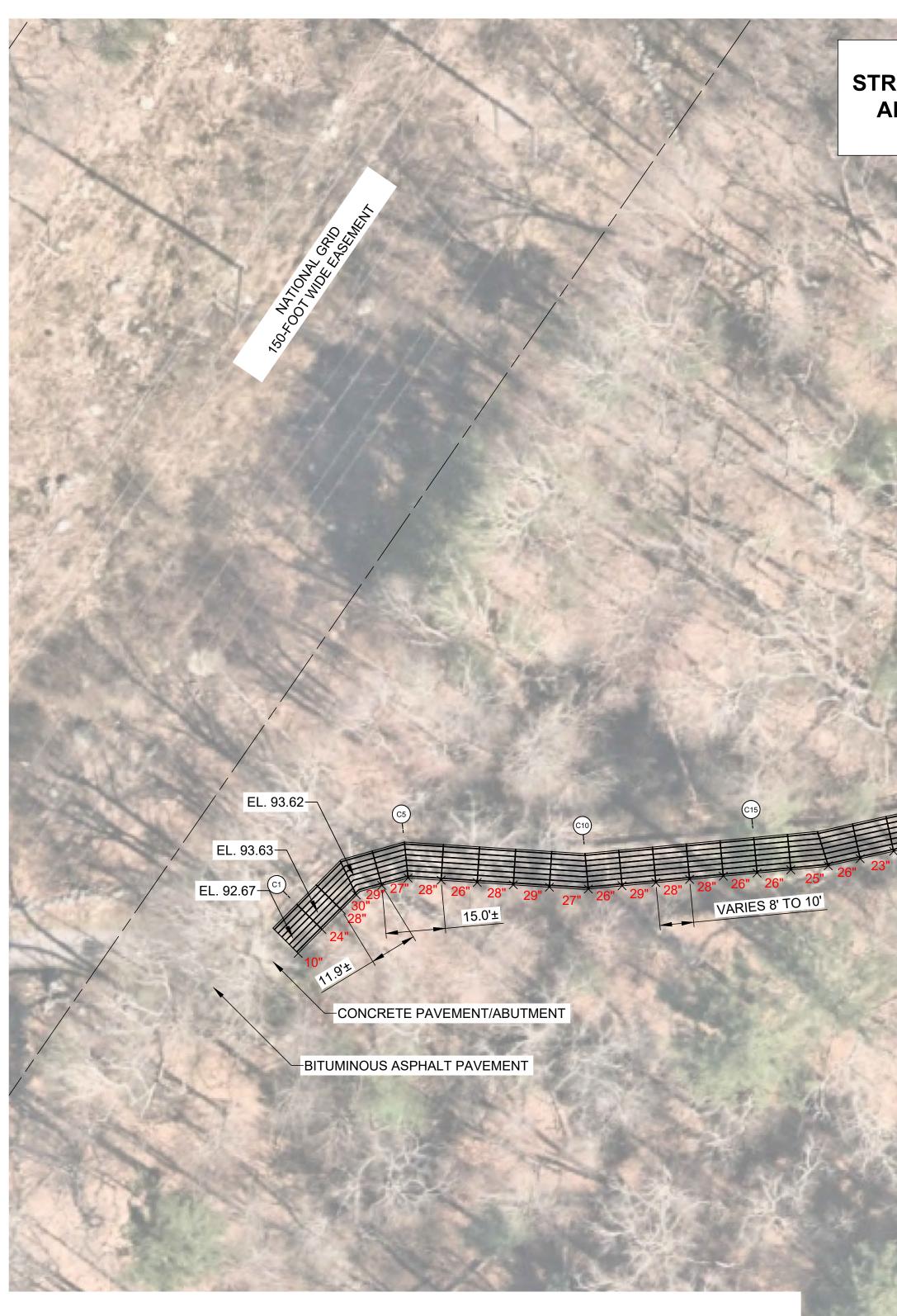
| GEI CONSULTANTS, INC. 124 GROVE STREET FRANKLIN, MA 02038 (774)277-6001 TOWN OF NG 345 MAIN S NORWELL 0206 | | 0 NO | 4/8/2025 DATE | FOR BID |
|---------------------------------------------------------------------------------------------------------------------------------|--|---------|------------------|---------|
|---------------------------------------------------------------------------------------------------------------------------------|--|---------|------------------|---------|

---- B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\EXISTING CONDITION PLANS.dwg - 12/9/2024

ADP

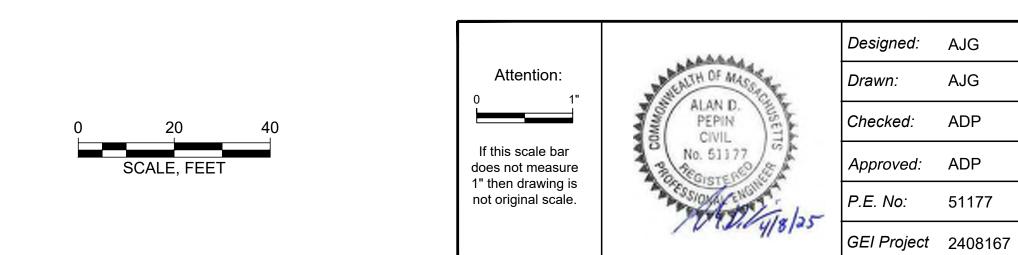
APP

ISSUE/REVISION



NOTES:

- EXISTING BOARDWALK LAYOUT AND CONSTRUCTION BASED ON FIELD OBSERVATIONS AND MEASUREMENTS PERFORMED BY GEI CONSULTANTS, INC ON NOVEMBER 11, AND NOVEMBER 13, 2024. LAYOUT OF FRAMING MEMBERS SHOULD BE CONSIDERED SCHEMATIC (I.E. EXACT LOCATIONS OF HELICAL PILES AND BENT SPACING VARY). CONTRACTOR SHALL PERFORM FIELD VERIFICATION AS REQUIRED PRIOR TO DEMOLITION AND ORDERING MATERIALS.
- 2. AERIAL IMAGERY FROM NEARMAP.COM DOWNLOADED ON NOVEMBER 14, 2024. AERIAL IMAGERY TAKEN ON APRIL 10, 2024.



THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. THE TIMBER STRUCTURE HAS BEEN DEMOLISHED BY THE TOWN AND ALL THAT REMAINS ARE THE PATHWAYS LEADING UP TO THE BOARDWALK, THE CONCRETE ABUTMENTS, AND HELICAL PILE FOUNDATION.

EL. 97.94

TIMBER BOARDWALK ON HELICAL PILES - 549'±

-EL. 93.05

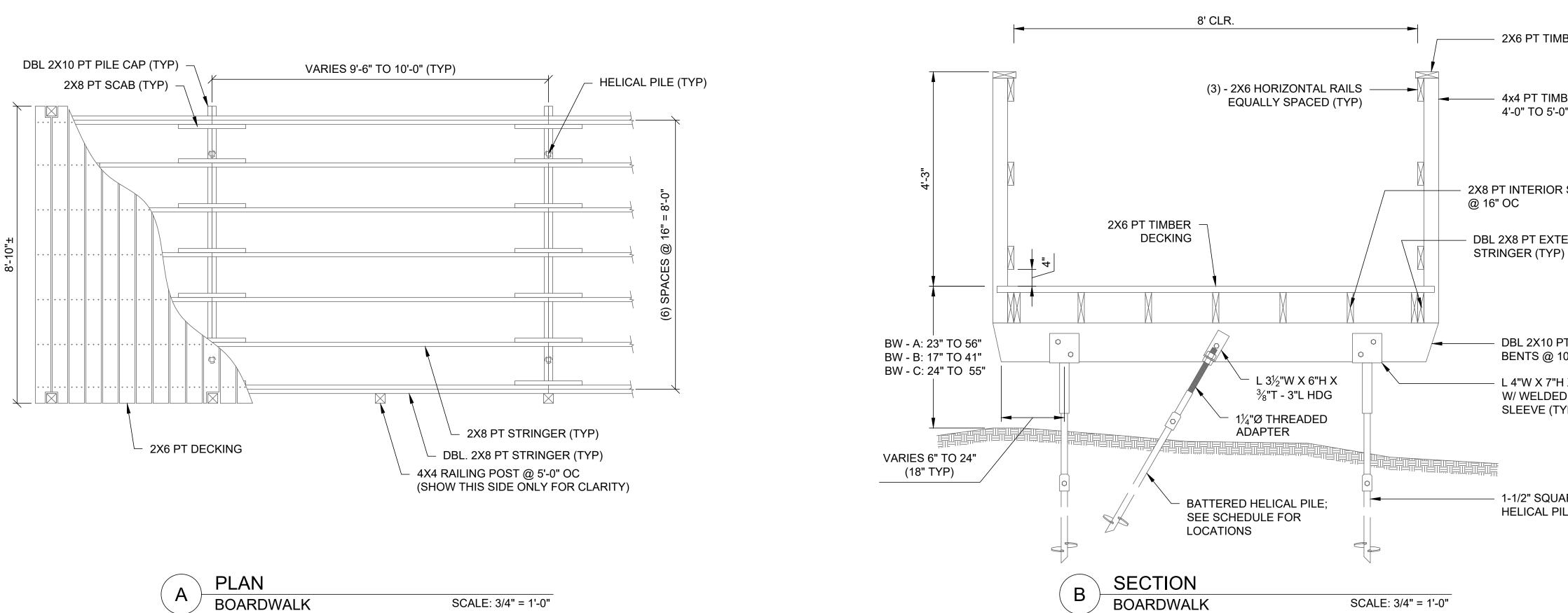
NORWELL BOARDWALK RECONSTRUCTION

> 310 MAIN STREET NORWELL, MA 02061

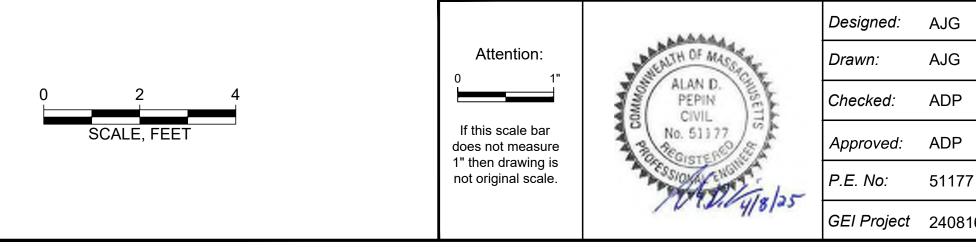
| 0 | 4/8/2025 | FOF |
|----|----------|-----|
| NO | DATE | |
| | | |



⁻⁻⁻⁻ B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\EXISTING CONDITION PLANS.dwg - 12/9/2024







THIS PLAN IS FOR INFORMATIONAL PURPOSES ONLY. THE TIMBER STRUCTURE HAS BEEN DEMOLISHED BY THE TOWN AND ALL THAT REMAINS ARE THE PATHWAYS LEADING UP TO THE BOARDWALK, THE CONCRETE **ABUTMENTS, AND HELICAL PILE FOUNDATION.**

| | | | | | | | | | FOR BID |
|-----|-----------------------------------------------------------------|------------------------------------|--------------------------------|---------|------------------|---------------------------|---------------|------------------------------------------------------------------|------------------------------------|
| | | | NORWELL | | | | | SHEET NAME | SHEET NO. |
| | GEI Consultants | TOWN OF NORWELL 345 MAIN STREET | BOARDWALK RECONSTRUCTION | | | | | EXISTING BOARDWALK | V-501 |
| | GEI CONSULTANTS, INC. 124 GROVE STREET FRANKLIN, MA 02038 | NORWELL, MA 02061 | | | | | | DETAILS | |
| 7 | (774)277-6001 | | 310 MAIN STREET NORWELL, MA | | | | | | |
| 167 | | | 02061 | 0 NO | 4/8/2025 DATE | FOR BID ISSUE/REVISION | ADP APP | | |
| | | | | | | B:\W | orking\NORWEL | L, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\V-301_ | EXISTING SECTIONS.dwg - 12/17/2024 |

– 2X6 PT TIMBER RAIL (TYP)

– 4x4 PT TIMBER POST @ 4'-0" TO 5'-0" OC (TYP)

2X8 PT INTERIOR STRINGER

DBL 2X8 PT EXTERIOR

- DBL 2X10 PT TIMBER PILE CAP; BENTS @ 10' OC MAX, UNO

L 4"W X 7"H X 1/4"T - 7"L HDG W/ WELDED 2-1/4" PIPE SLEEVE (TYP)

NOTES:

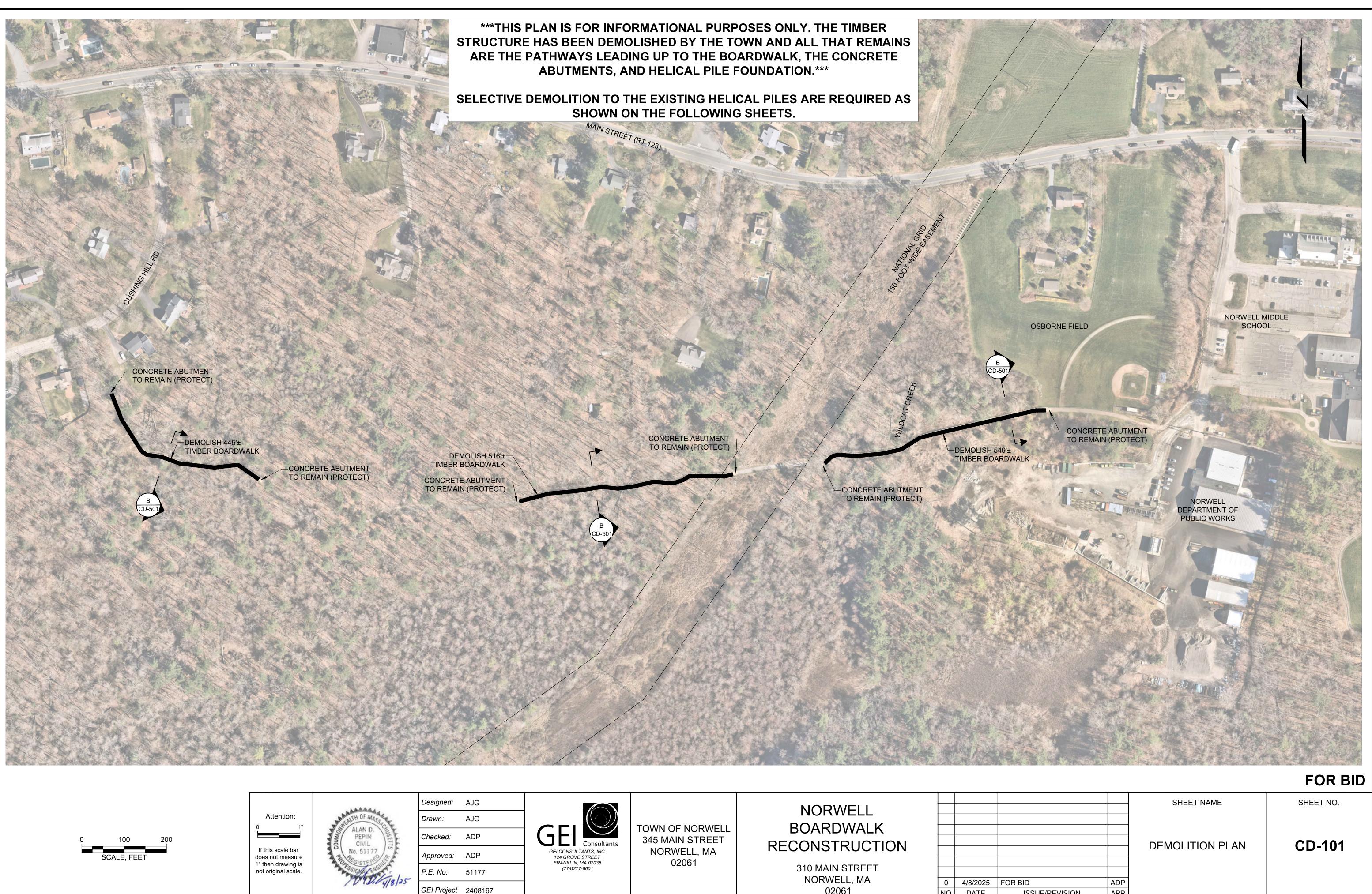
- 1. ALL TIMBER IS PRESSURE TREATED.
- 2. ALL BOLTS ARE HOT-DIPPED GALVANIZED.
- 3. ALL HELICAL COMPONENTS ARE HOT-DIPPED GALVANIZED.

BATTERED HELICAL PILE SCHEDULE BOARDWALK - A BOARDWALK - B BOARDWALK - C

1-1/2" SQUARE SHAFT HELICAL PILE (TYP)

| A4 - R | - | C60 - L |
|---------|---|---------|
| A6 - L | - | C58 - R |
| A8 - R | - | |
| A25 - R | - | |
| A36 - R | - | |

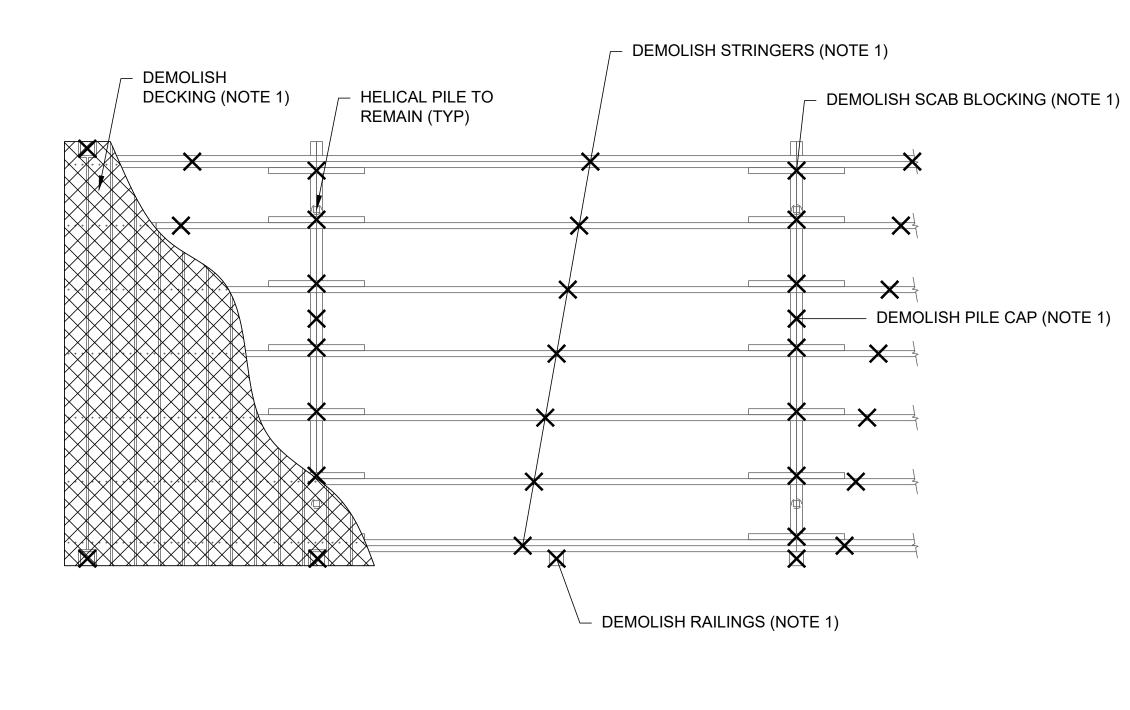
*L = LEFT, R = RIGHT RELATIVE TO UP-STATION DIRECTION

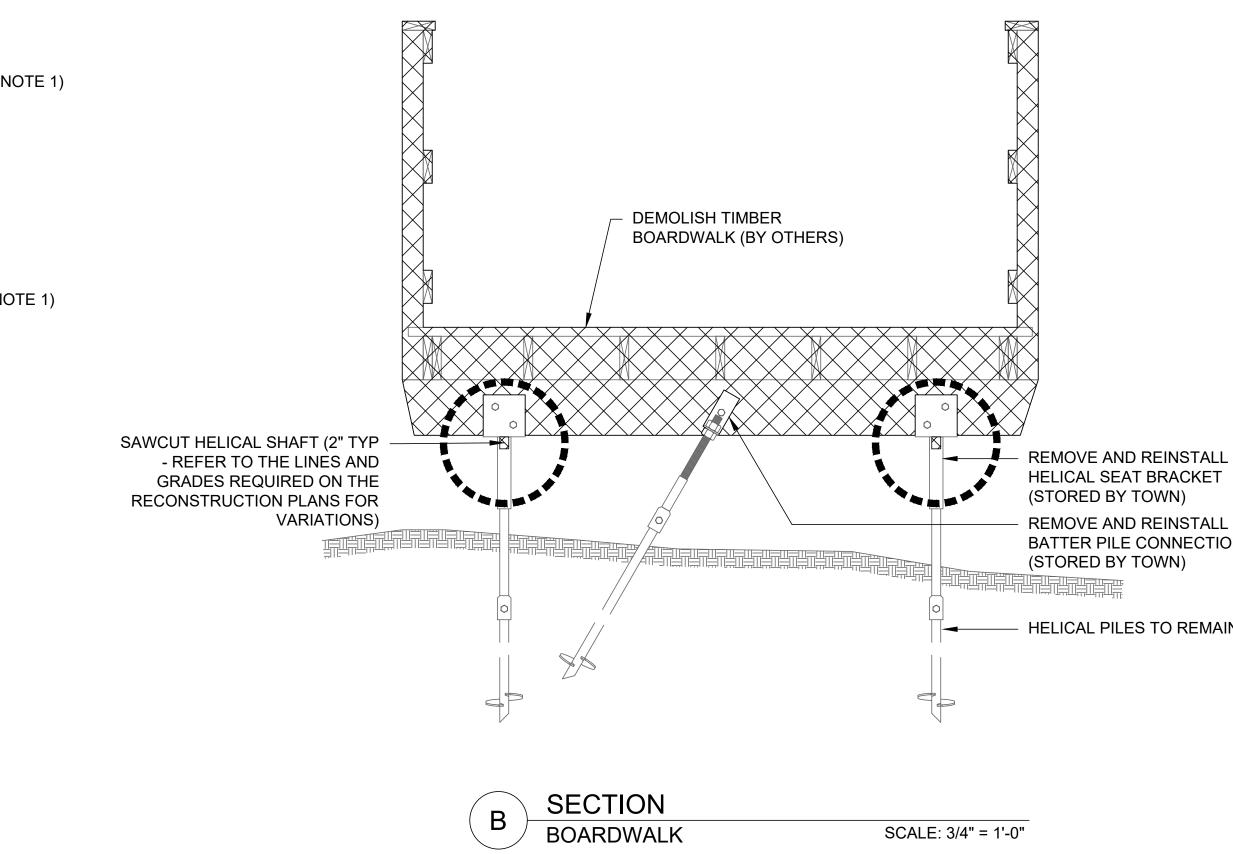


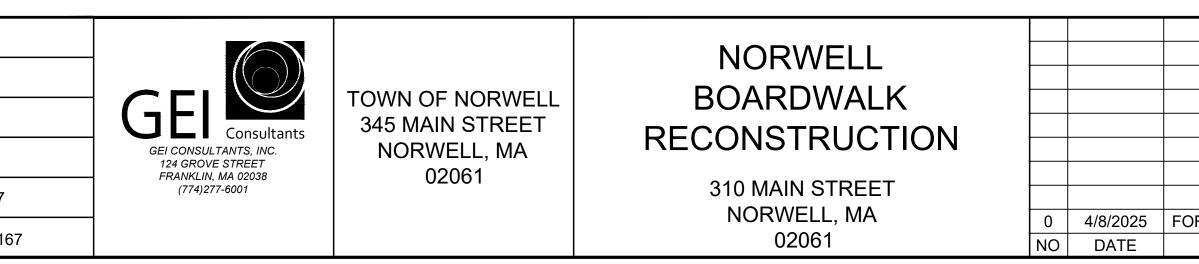
| | GEI CONSULTANTS, INC. 124 GROVE STREET FRANKLIN, MA 02038 (774)277-6001 | TOWN OF NORWELL | NORWELL BOARDWALK RECONSTRUCTION 310 MAIN STREET NORWELL, MA 02061 | 0 NO | 4/8/2025 DATE | FOR BID ISSUE/REVISION | ADP | SHEET NAME | SHEET NO. CD-101 |
|--|----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|---------|------------------|---------------------------|-----|------------|---------------------|
|--|----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|---------|------------------|---------------------------|-----|------------|---------------------|

| LEGEND: | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------|
| DEMOLITION (BY OTHERS) | | |
| DEMOLITION (BY OTHERS) | | |
| DEMOLITION (BY CONTRACTOR) | | |
| <u>NOTES:</u> DEMOLITION OF THE TIMBER STRUCTURE HAS BEEN PERFORMED BY OTHERS (THE TOWN). THE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR MODIFYING THE CUT-OFF ELEVATION OF THE HELICAL PILE SHAFTS. THE TOWN HAS SAVED ALL HARDWARE AND HELICAL PILE BRACKETS WHICH ARE TO BE REUSED AS PART OF THE RECONSTRUCTION. | | |
| | Designed: | AJG |
| Attention: | Drawn: | AJG |
| 0 2 4 | Checked: | ADP |
| SCALE, FEET If this scale bar does not measure 1" then drawing is | Approved: | ADP |
| not original scale. | P.E. No: | 51177 |
| 10 1010 418123 | GEI Project | 240816 |







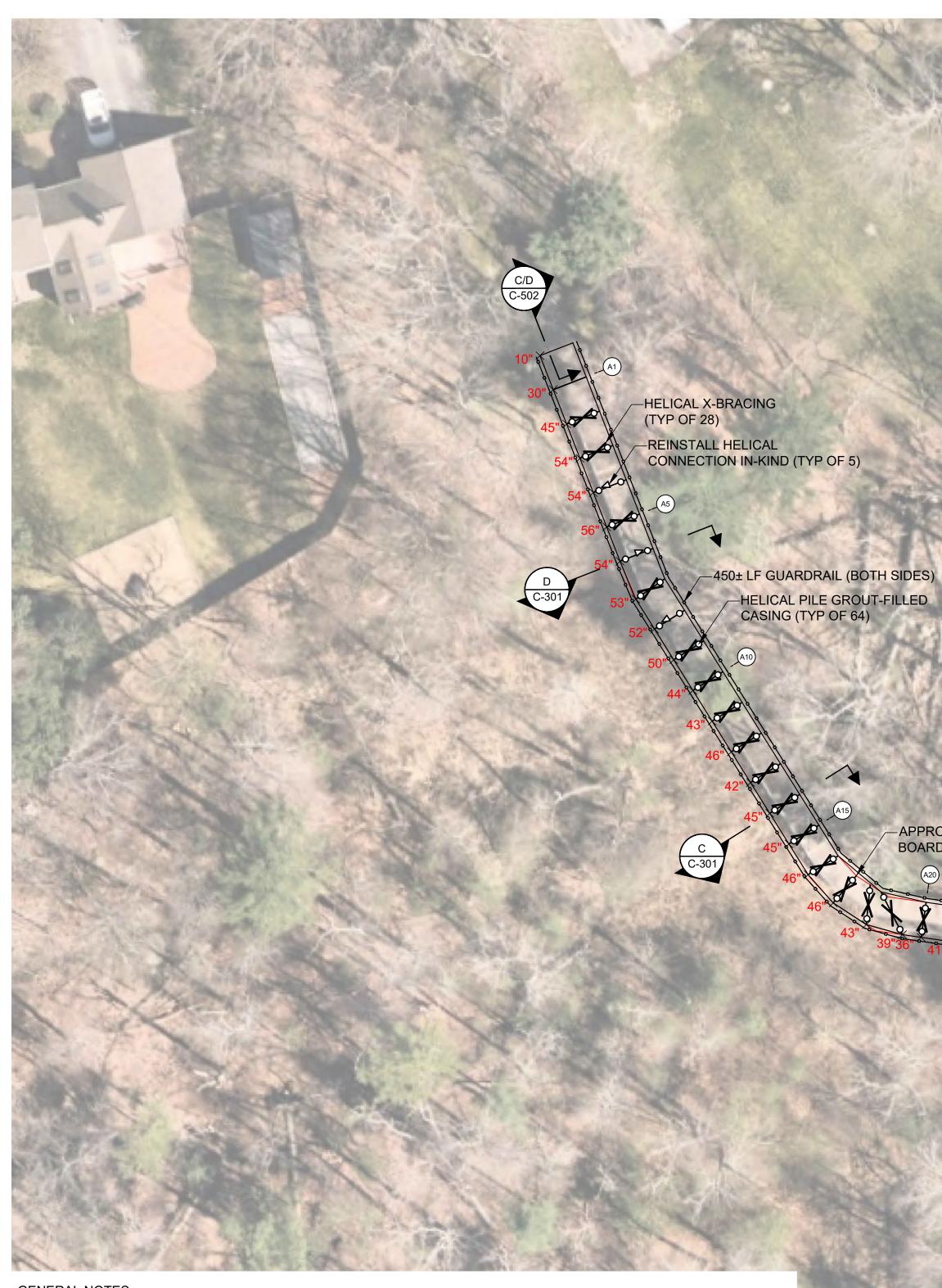


REMOVE AND REINSTALL HELICAL BATTER PILE CONNECTION BRACKET

— HELICAL PILES TO REMAIN (PROTECT)

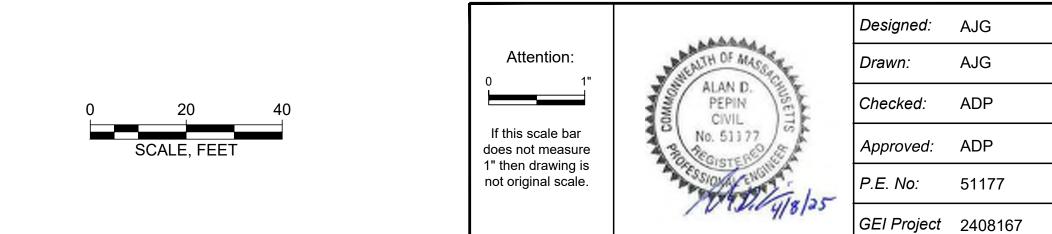
FOR BID

| | | SHEET NAME | SHEET NO. | | | |
|----------------------------------------------------------------------------------------------------------------------|-----|--------------------|-----------|--|--|--|
| | | | | | | |
| | | DEMOLITION DETAILS | CD-501 | | | |
| | | | | | | |
| | | | | | | |
| R BID | ADP | | | | | |
| ISSUE/REVISION | APP | | | | | |
| B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\CD301_DEMOLITION SECTIONS.dwg - 1/13/2025 | | | | | | |



GENERAL NOTES:

- 1. EXISTING BOARDWALK LAYOUT AND CONSTRUCTION BASED ON FIELD OBSERVATIONS AND MEASUREMENTS PERFORMED BY GEI CONSULTANTS, INC ON NOVEMBER 11, AND NOVEMBER 13, 2024. LAYOUT OF FRAMING MEMBERS SHOULD BE CONSIDERED SCHEMATIC (I.E. EXACT LOCATIONS OF HELICAL PILES AND BENT SPACING VARY). CONTRACTOR SHALL PERFORM FIELD VERIFICATION AS REQUIRED PRIOR TO ORDERING MATERIALS.
- 2. AERIAL IMAGERY FROM NEARMAP.COM DOWNLOADED ON NOVEMBER 14, 2024. AERIAL IMAGERY TAKEN ON APRIL 10, 2024.





TOWN OF NORWELL 345 MAIN STREET NORWELL, MA 02061

C-301

NORWELL BOARDWALK RECONSTRUCTION

310 MAIN STREET NORWELL, MA 02061

| 0 | 4/8/2025 | FOR |
|----|----------|-----|
| NO | DATE | |
| | | |

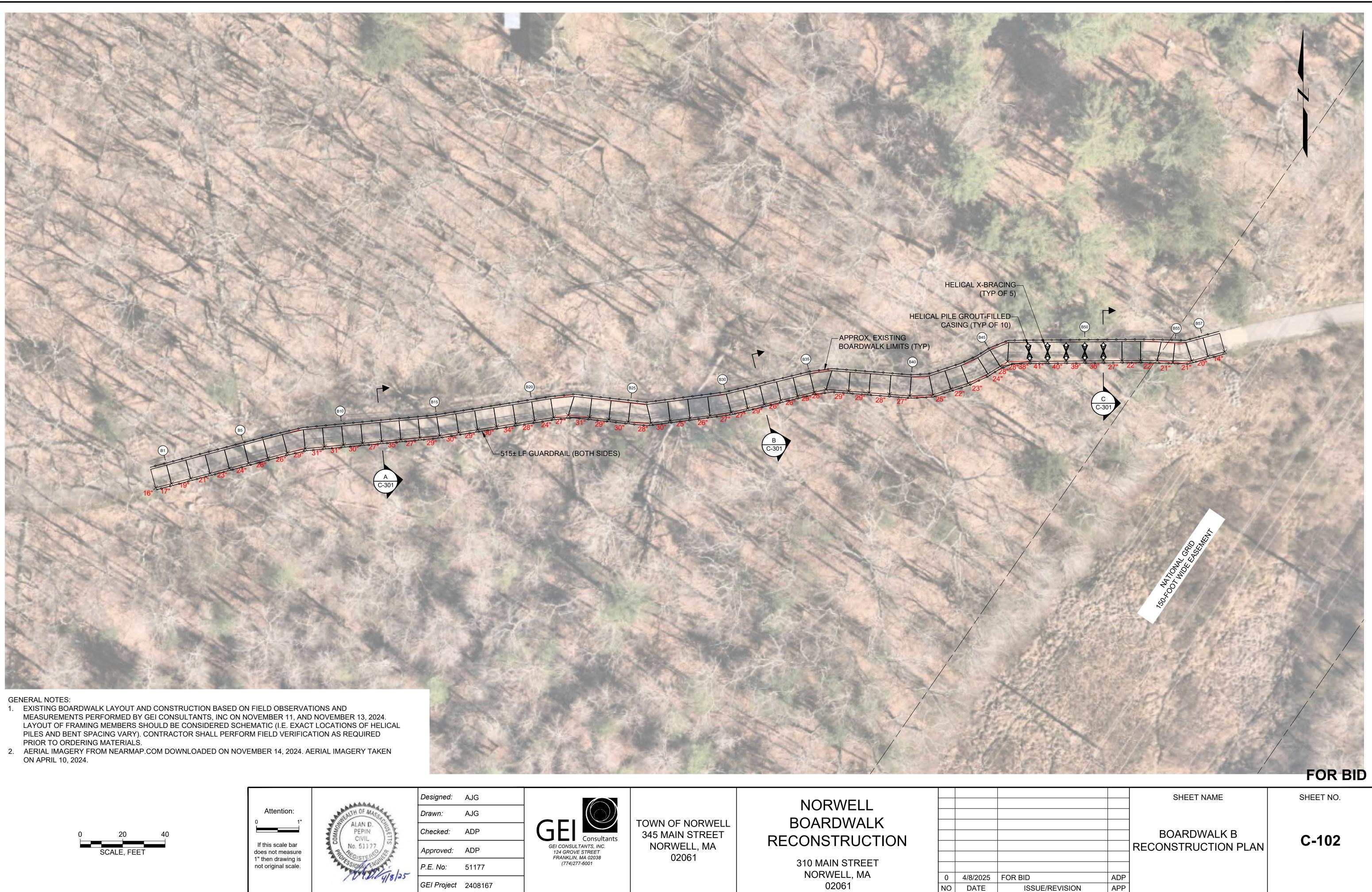
-APPROX. EXISTING BOARDWALK LIMITS (TYP)

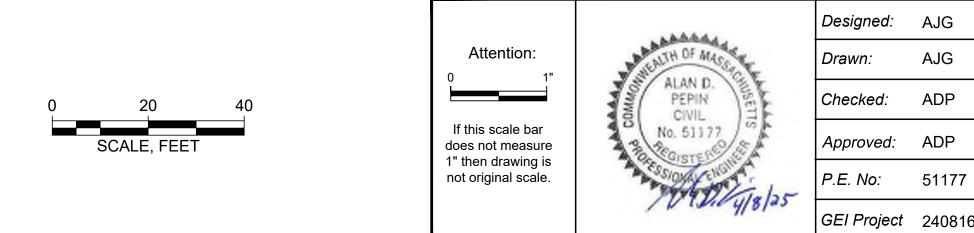
41 45 44 40



ISSUE/REVISION ---- B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\BOARDWALK RECONSTRUCTION PLANS.dwg - 4/4/2025

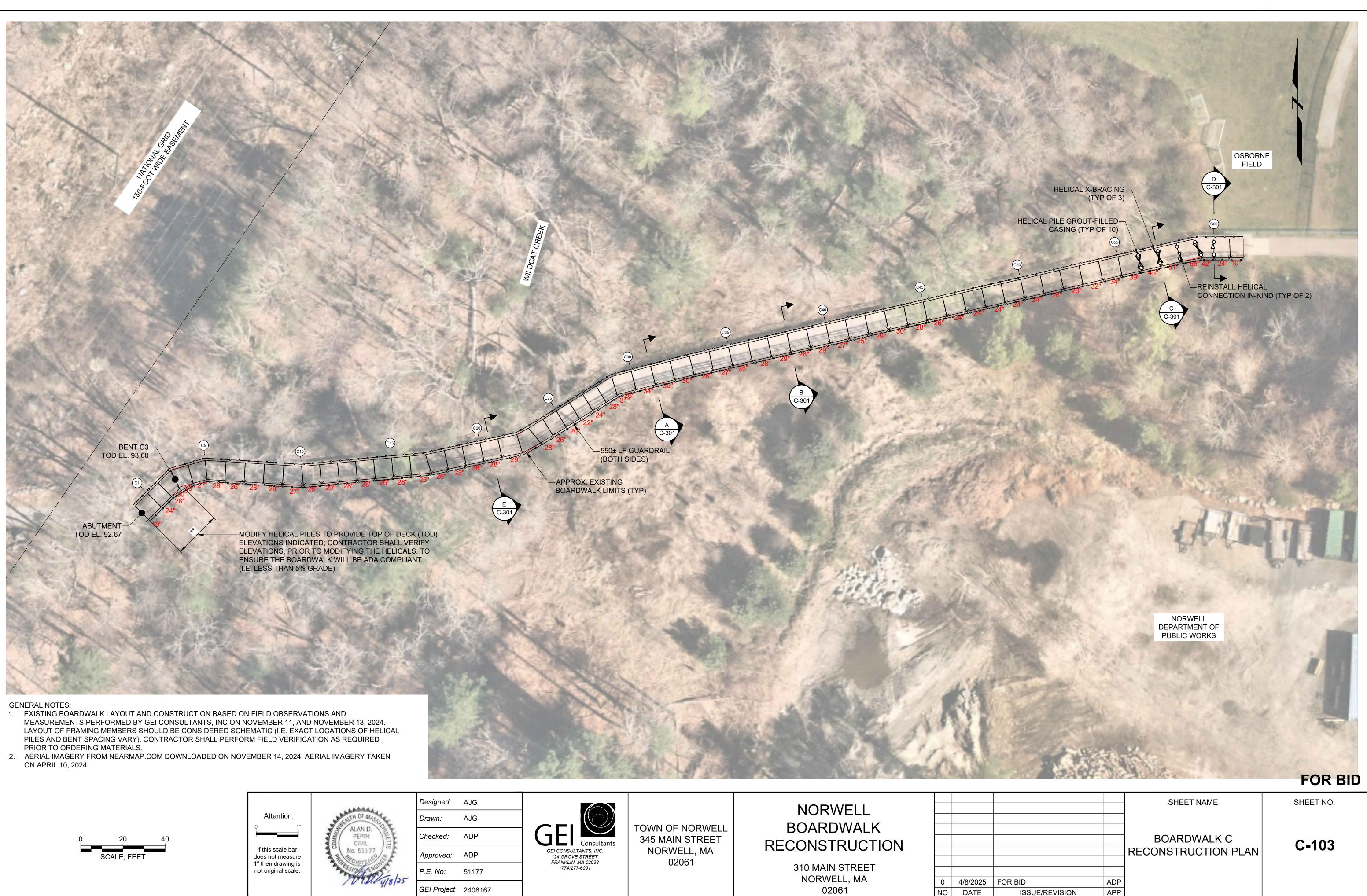
APP

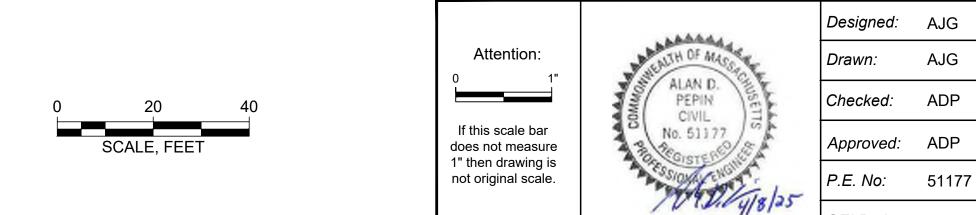




| 67 | GEI CONSULTANTS, INC. 124 GROVE STREET FRANKLIN, MA 02038 (774)277-6001 | TOWN OF NORWELL 345 MAIN STREET NORWELL, MA 02061 | NORWELL BOARDWALK RECONSTRUCTION 310 MAIN STREET NORWELL, MA 02061 | 0 NO | 4/8/2025 DATE | FOF |
|----|----------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------------------|-----|
|----|----------------------------------------------------------------------------------|------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------------------|-----|

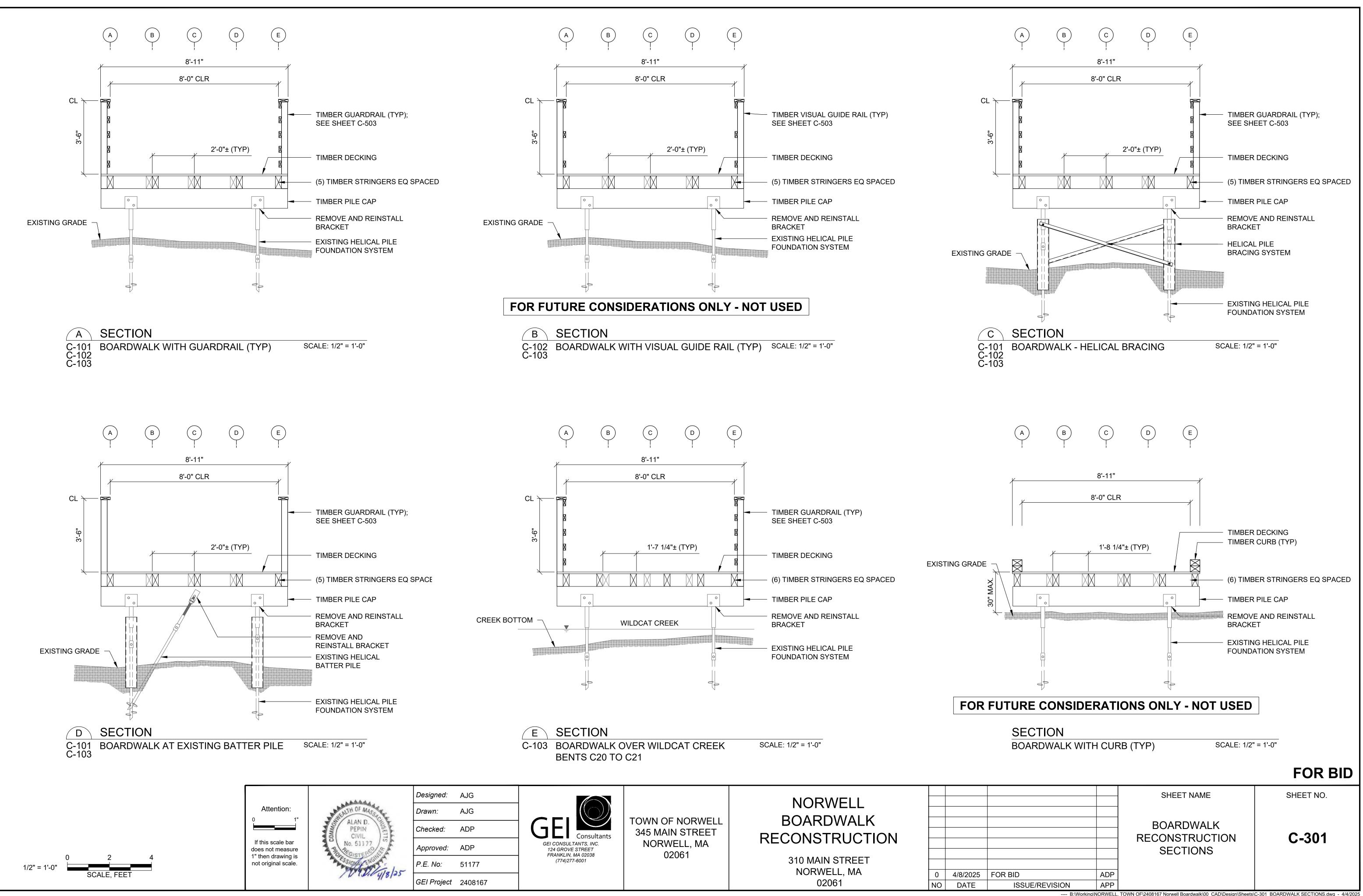
⁻⁻⁻⁻ B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\BOARDWALK RECONSTRUCTION PLANS.dwg - 4/4/2025

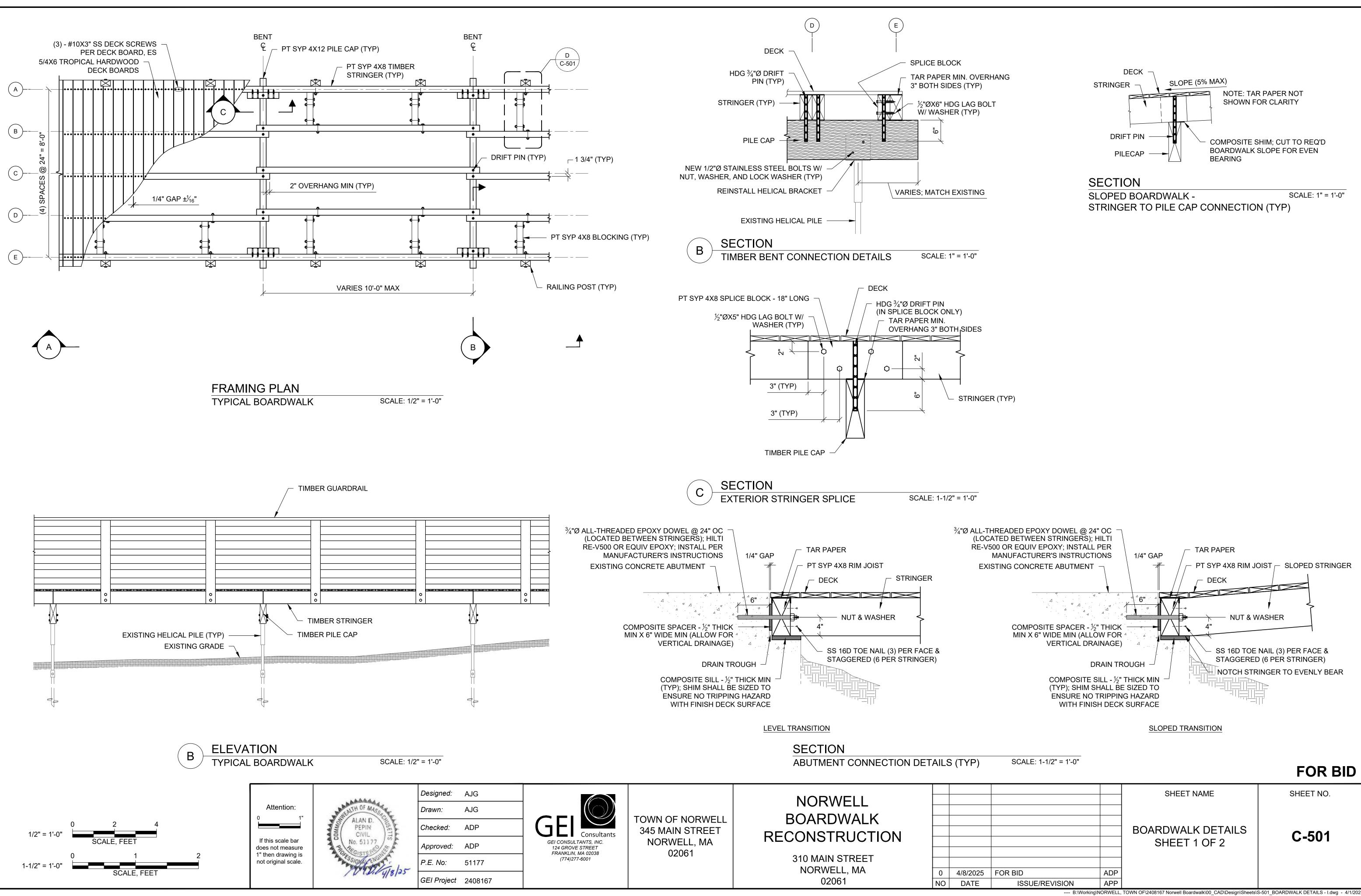




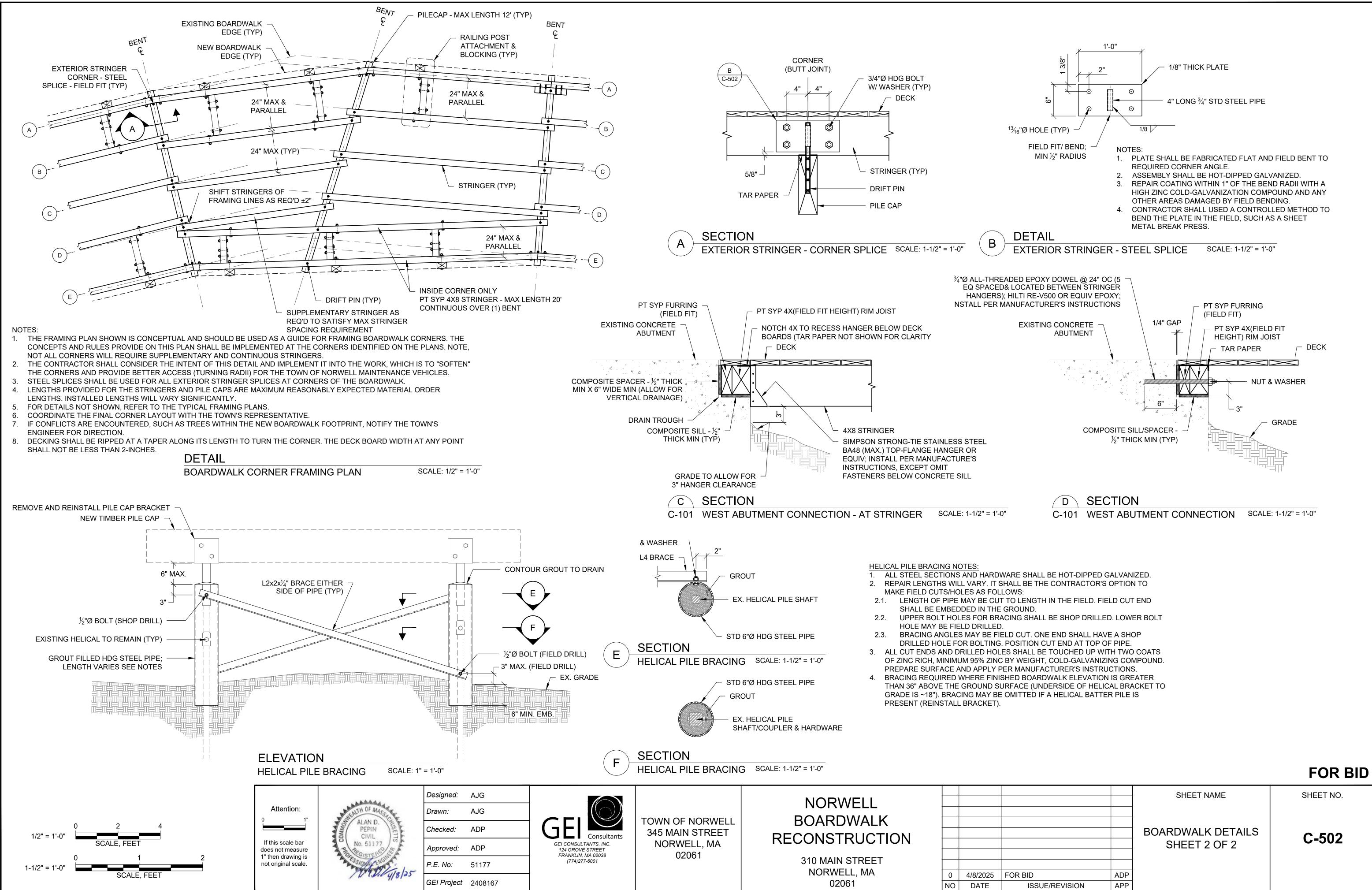
| GEI CONSULTANTS, INC. 124 GROVE STREET FRANKLIN, MA 02038 (774)277-6001 TOWN OF NORWELL S45 MAIN STREET NORWELL, MA 02061 BOARDWALK BOARDWALK RECONSTRUCTION 310 MAIN STREET |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| |

---- B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\BOARDWALK RECONSTRUCTION PLANS.dwg - 4/4/2025

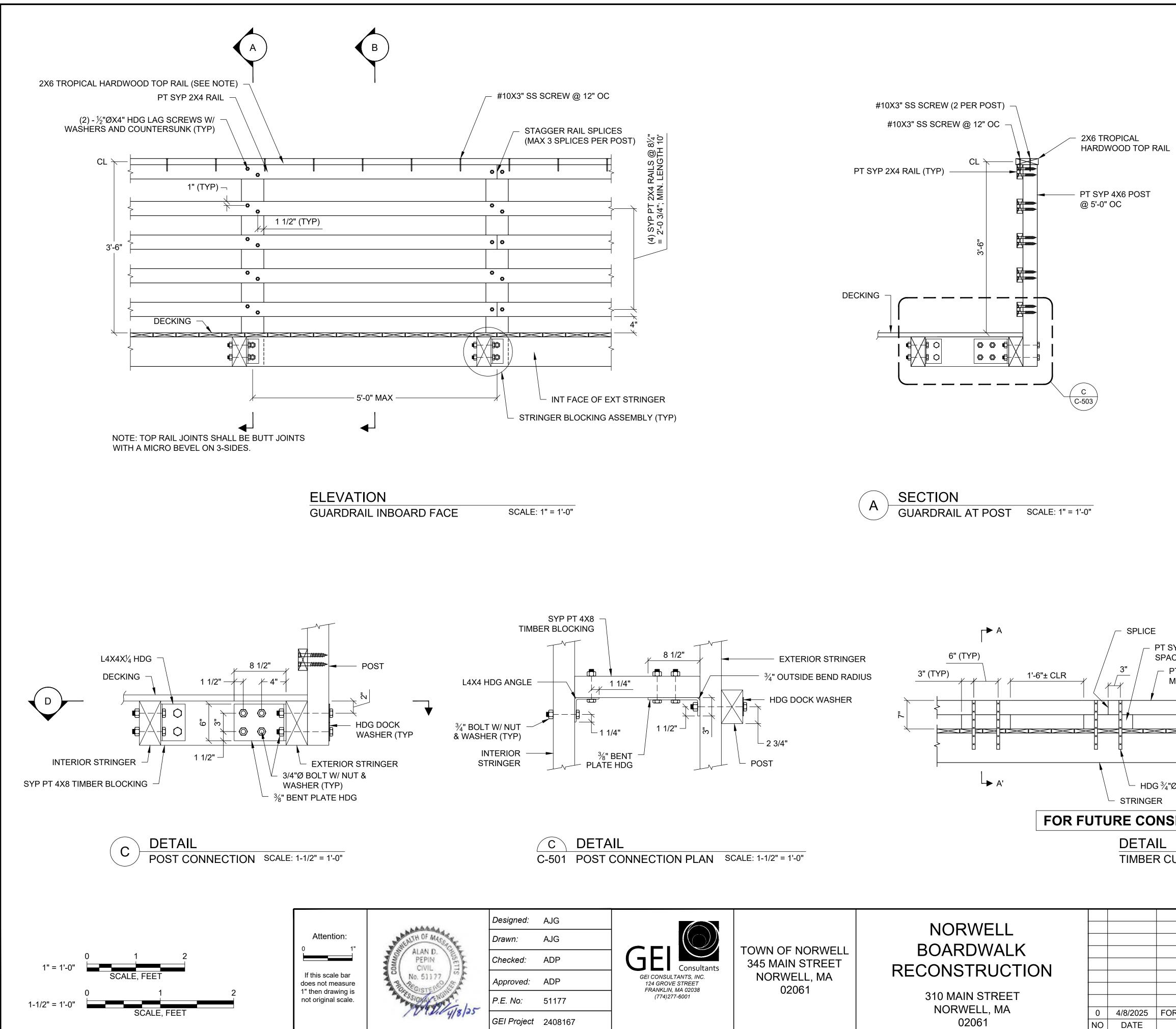


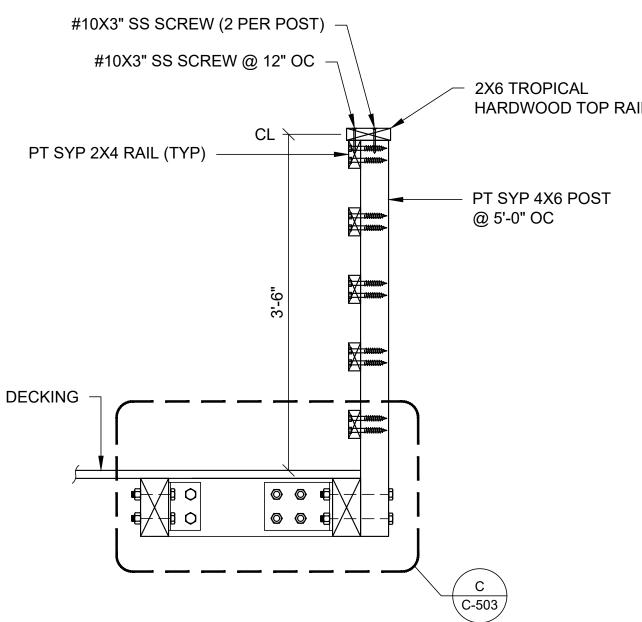


---- B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\S-501_BOARDWALK DETAILS - I.dwg - 4/1/2025



⁻⁻⁻⁻ B:\Working\NORWELL, TOWN OF\2408167 Norwell Boardwalk\00_CAD\Design\Sheets\S-502_BOARDWALK DETAILS - II.dwg - 12/17/2024







| | | | (TYP) |
|---------------------------------------------------------------------------------|--------------------------------------|--------------------------------|----------------------------------------------------|
| | B SECTION GUARDRAI | l L BETWEEN PO | STS SCALE: 1" = 1'-0" |
| YP 4X6 SPACER; 12" LONG CED @ 30" OC MAX PT SYP 4X6 CURB; MIN 10' LONG | <u>2 3/4"</u> DECK | | PRIFT PIN BER CURB BER SPACER BLOCK INGER |
| Ø DRIFT PIN (TYP) | LY - NOT USED | SECTION A-A' | |
| JRB | SCALE: 1" = 1'-0" | | |
| | | | FOR BID |
| | SHEET | 「 NAME | SHEET NO. |
| | | AIL & CURB AILS | C-503 |
| R BID ISSUE/REVISION | | | |
| B:\Working\NORW | VELL, TOWN OF\2408167 Norwell Boardw | alk\00_CAD\Design\Sheets\C-503 | 3_GUARDRAIL & CURB DETAILS.dwg - 4/1/2025 |

