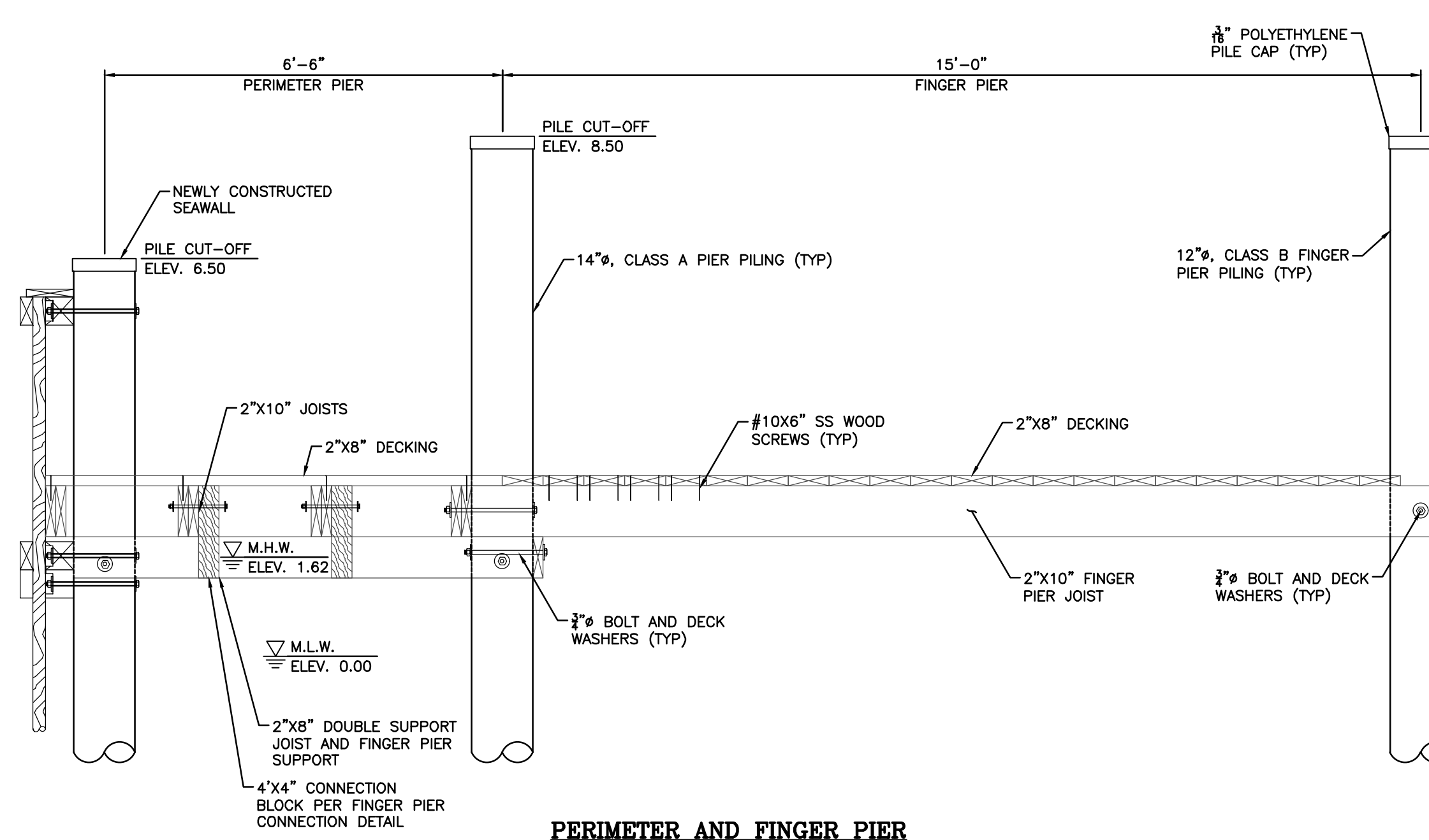
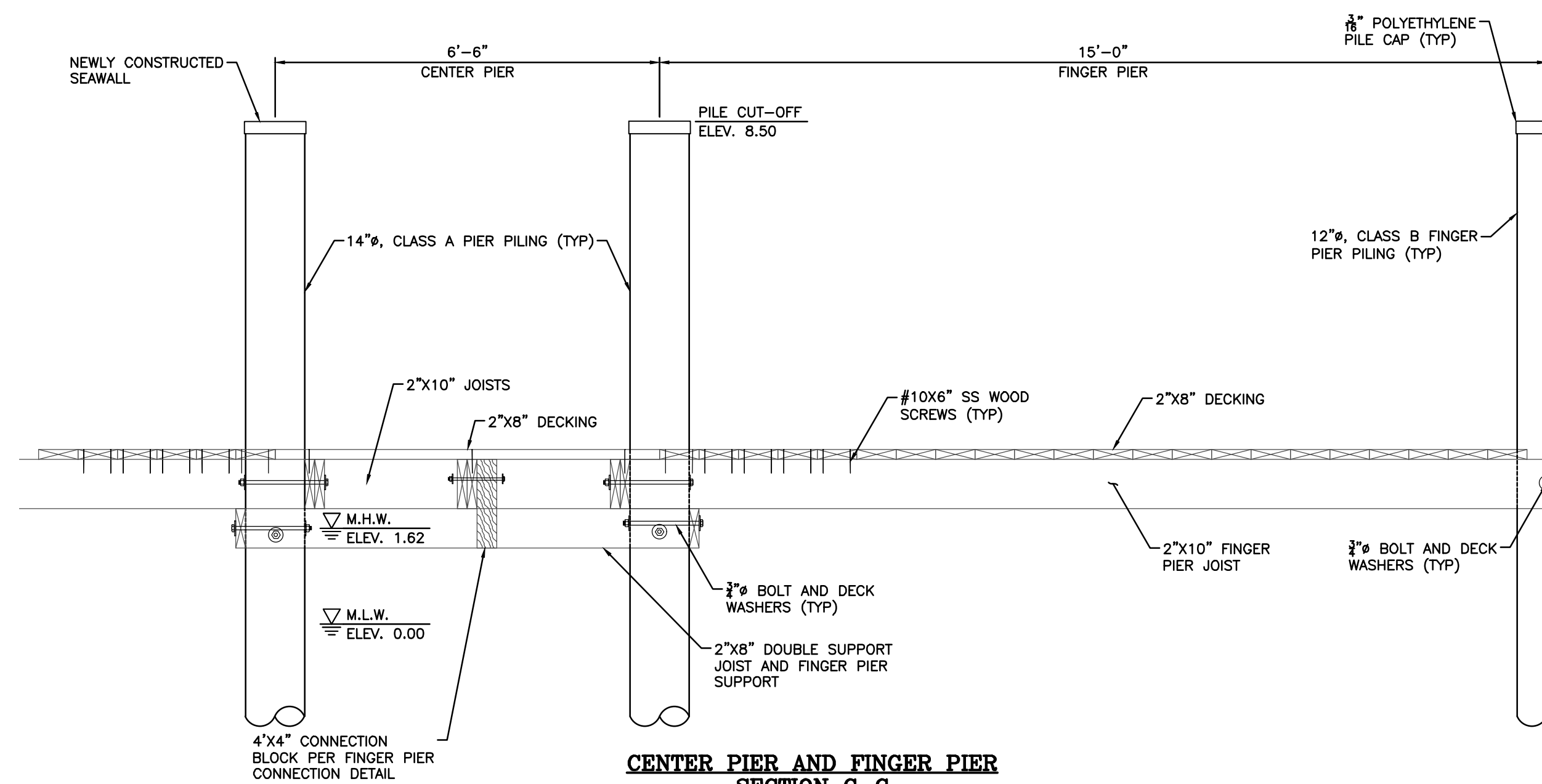


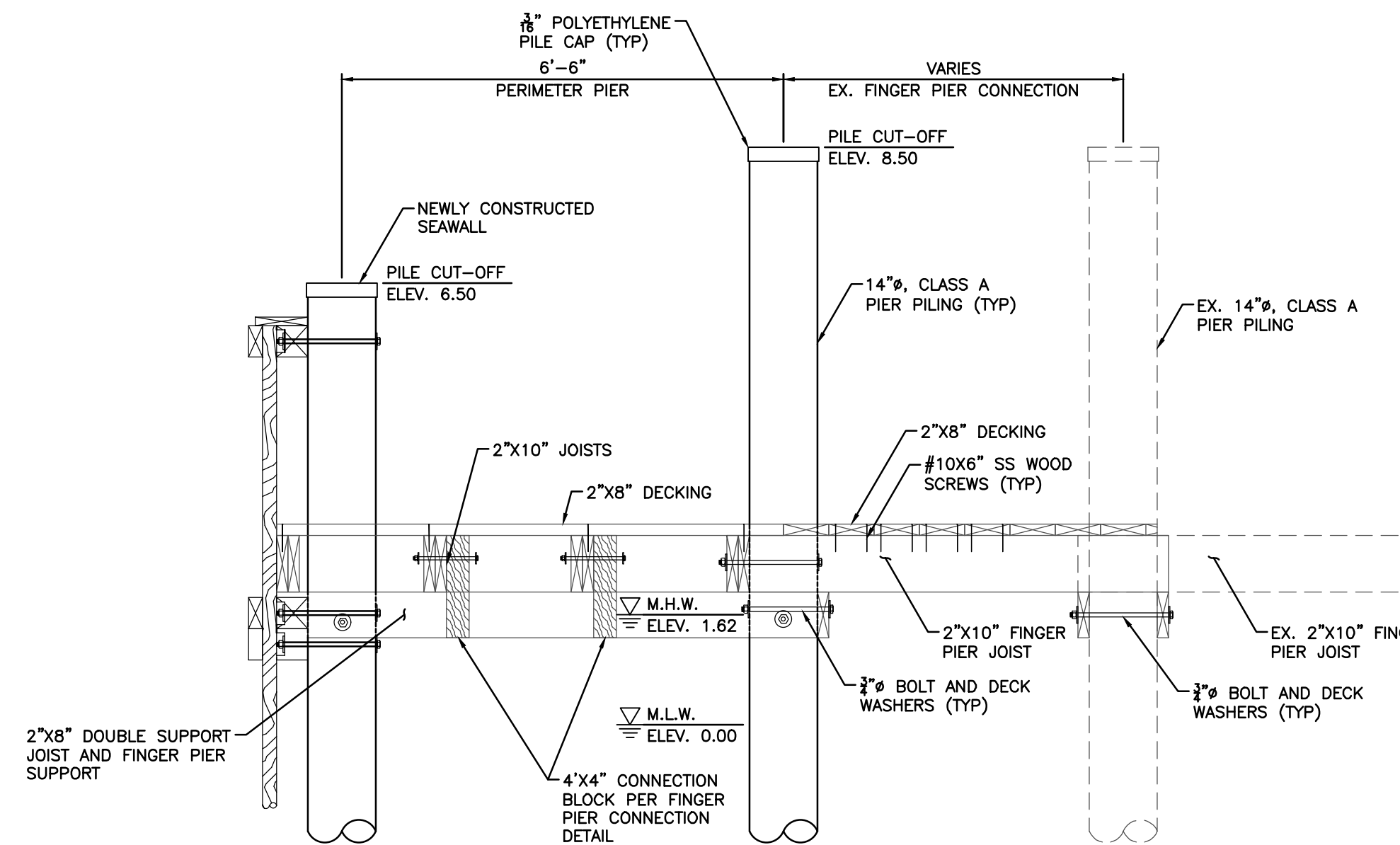
**FINGER PIER CONNECTION DETAIL
SECTION B-B
SCALE: 1/2" = 1'-0"**



**PERIMETER AND FINGER PIER
SECTION A-A
SCALE: 1/2" = 1'-0"**



**CENTER PIER AND FINGER PIER
SECTION C-C
SCALE: 1/2" = 1'-0"**



**EXISTING FINGER PIER CONNECTION
SECTION D-D
SCALE: 1/2" = 1'-0"**

PIER CONSTRUCTION GENERAL NOTES

- A. THE CONTRACTOR FOR THIS PROJECT SHALL BE REGISTERED WITH THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AS A LICENSED MARINE CONTRACTOR.
- B. THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING WORK PRIOR TO FABRICATION OF ANY NEW MATERIALS AND BEFORE PROCEEDING WITH CONSTRUCTION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- C. THE CONTRACTOR IS ADVISED THAT ALL PLANS, DIMENSIONS, AND DETAILS DEPICT FIELD CONDITION AS KNOWN. MINOR VARIATIONS ARE TO BE EXPECTED AND ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS SHALL BE APPROVED BY THE ENGINEER IN WRITING PRIOR TO WORK EXECUTION.
- D. NUMERICAL DIMENSIONS AND ELEVATIONS SHOWN SHALL SUPERSEDE ANY DISCREPANCY IN THE SCALING ON THE DRAWINGS.
- E. THE DRAWINGS SHALL SUPERSEDE IN ANY DISCREPANCY BETWEEN THE CONTRACT SPECIFICATIONS AND THE CONTRACT DRAWINGS.
- F. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING STRUCTURES RESULTING FROM HIS MEANS AND METHODS OF CONSTRUCTION. REVIEW OF THE CONTRACTOR'S MEANS AND METHODS BY THE OWNER OR ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SELECTING APPROPRIATE EQUIPMENT TO PREVENT DAMAGE TO EXISTING STRUCTURES.
- H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EXISTING STRUCTURES FOR DAMAGE DURING CONSTRUCTION. THE CONTRACTOR SHALL DETERMINE THE TYPE (I.E. PHOTO DOCUMENTATION AND/OR VIBRATION MONITORING) AND EXTENT OF MONITORING REQUIRED (IF ANY) TO PREVENT DAMAGE TO EXISTING STRUCTURES. MINIMALLY, THE CONTRACTOR SHALL PERFORM A PRE-CONSTRUCTION SURVEY AND POST-CONSTRUCTION SURVEY OF EXISTING STRUCTURES WITH PHOTO LOG AND REPORT.
- I. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FAMILIARIZE HIMSELF WITH THE LOCATION OF ANY UTILITIES IN THE IMMEDIATE VICINITY OF THE CONSTRUCTION SITE TO PREVENT DAMAGE TO THEM. SHOULD ANY DAMAGE TO SUCH UTILITIES OCCUR, THE CONTRACTOR SHALL BE REQUIRED TO REPAIR SUCH DAMAGE AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER.
- J. SUBMITTALS
 - a. PRODUCT DATA: THE CONTRACTOR SHALL SUBMIT PRODUCT DATA DEMONSTRATING CONFORMANCE WITH THE SPECIFIED PERFORMANCE REQUIREMENTS AND STANDARDS FOR ALL PRODUCTS USED INCLUDING BUT NOT LIMITED TO THE FOLLOWING.
 - INSTALLER AND FABRICATOR QUALIFICATIONS
 - MATERIAL CERTIFICATES
 - TEST DATA
 - b. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF PRODUCTS NOT SUBMITTED AND APPROVED.
 - c. TEST DATA
 - PILE DRIVING RECORDS
 - d. AS-BUILT DRAWINGS
 - e. ALL CHANGES AND ADDITIONS MADE ON RE-SUBMITTALS MUST BE CLEARLY FLAGGED AND NOTED. THE REVIEW OF THE RE-SUBMITTALS WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMISSION.
 - f. ALL SAFETY REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION AND THE OWNER SHALL BE STRICTLY FOLLOWED.
- K. METHODS OF CONSTRUCTION AND ERECTION OF STRUCTURAL MATERIAL SHALL BE THE CONTRACTOR'S RESPONSIBILITY. USE OF A VIBRATORY HAMMER IS AN ACCEPTABLE MEANS OF PILE INSTALLATION.
- L. THE CONTRACTOR SHALL IMMEDIATELY RETRIEVE ANY DEBRIS THAT FALLS INTO THE WATER.

PILES

- A. ALL TIMBER PILES SHALL BE TREATED SOUTHERN YELLOW PINE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM D25.
- B. ALL TIMBER PILES SHALL BE PRESERVATIVE TREATED WITH CHROMATED COPPER ARSENATE (CCA) TREATMENT IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1 TO THE REQUIREMENTS OF SERVICE CONDITION UC4B. MINIMUM RETENTION SHALL BE 2.50 PCF. ALL CUT ENDS SHALL BE RE-TREATED PER AWPA STANDARD M4.
- C. ALL PILES SHALL BE DRIVEN TO THE MINIMUM TIP ELEVATIONS SHOWN ON THE DRAWINGS.

WOOD FRAMING

- A. ALL WOOD FRAMING SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF TIMBER CONSTRUCTION SPECIFICATION AITC 105 "RECOMMENDED PRACTICE FOR THE ERECTION OF STRUCTURAL TIMBER FRAMING", AITC 106, "CODE OF STANDARD PRACTICE", AND "THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION", LATEST EDITION, AS PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION.
- B. ALL STRUCTURAL LUMBER SHALL BE NO. 1 SOUTHERN PINE AT 19% MAXIMUM MOISTURE CONTENT.
- C. ALL TIMBER/LUMBER SHALL BE SURFACED FOUR SIDES (S4S), UNLESS OTHERWISE NOTED.
- D. ALL WOOD FRAMING SHALL BE PRESERVATIVE TREATED WITH CHROMATED COPPER ARSENATE (CCA) TREATMENT IN ACCORDANCE WITH AMERICAN WOOD PROTECTION ASSOCIATION (AWPA) STANDARD U1. ALL CUT ENDS, DRILLED HOLES OR OTHER PENETRATIONS SHALL BE RE-TREATED PER AWPA M4. MINIMUM RETENTION SHALL BE 2.50 PCF CCA.
- E. ALL STEEL BOLTS, NUTS, AND WASHERS FOR TIMBER CONSTRUCTION SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A153.
- F. STEEL BOLTS FOR TIMBER CONSTRUCTION SHALL COMPLY WITH ASTM A307 GRADE A OR ASTM F1554 GRADE 36.
- G. ALL BOLTS FOR TIMBER CONSTRUCTION SHALL HAVE A WASHER AT THE BOLT HEAD AND THE NUT. WASHERS FOR TIMBER CONSTRUCTION SHALL BE DOCK WASHERS (NYDD) OR ROUND PLATE WASHERS WITH MINIMUM DIMENSIONS AS FOLLOWS:
 - a. 3/4" TO 7/8" DIA. BOLT = 3" O.D. x 1/4" THK. WASHERS
- H. ALL HARDWARE MINIMUM EDGE DISTANCES, END DISTANCES, & SPACING SHALL BE AS FOLLOWS (d = DIAMETER OF HARDWARE), UNLESS OTHERWISE NOTED. EDGE DISTANCE = 4d, END DISTANCE = 7d, SPACING = 5d. ALL SCREWS SHALL BE 316 STAINLESS STEEL.
- I. ALL TIMBER INTERFACES SHALL BE TREATED WITH ASPHALT ROOFING CEMENT BEFORE ASSEMBLY.
- J. ALL CONNECTIONS SHALL BE PRE-DRILLED.
- K. AFTER ALL BOLTS ARE TIGHTENED, THE THREADS OF EACH BOLT WILL BE DEFORMED WITH A COLD CHISEL ON THE OUTSIDE OF THE NUT.
- L. 6 TO 12 MONTHS AFTER SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL BE REQUIRED TO RETIGHTEN ALL TIMBER CONNECTIONS AS DIRECTED BY THE OWNER AND THE OWNER AND AGAIN DEFORM THE THREADS AS NECESSARY DUE TO TIMBER SHRINKAGE.

CAROLINE COUNTY PLANNING DIRECTOR

CAROLINE COUNTY DEPT OF PARKS & RECREATION

REVISIONS			
No.	DATE	DESCRIPTION	BY

WARNING!!
THE LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THIS PLAN ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE QUANTITIES SHOWN ON THIS PLAN ARE FOR INFORMATIONAL AND PERMITTING PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES TO HIS OWN SATISFACTION PRIOR TO BEGINNING CONSTRUCTION.

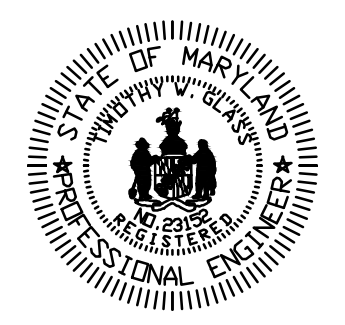
THE CONTRACTOR SHALL TEST PIT AND LOCATE EXISTING UNDERGROUND UTILITIES PRIOR TO THE BEGINNING OF ANY WORK ON-SITE. THE CONTRACTOR SHALL NOTIFY DEPT. OF PUBLIC WORKS OF ANY POSSIBLE CONFLICT AND REQUEST THE RELOCATION OF THE EXISTING UNDERGROUND UTILITIES BEFORE BEGINNING ANY WORK ON-SITE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY RELOCATION EXPENSE.



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PROFESSIONAL CERTIFICATION: I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 23182, Expiration Date: 7/5/2025.



PIER DETAILS

CHOPTANK MARINA

IN THE FOURTH ELECTION DISTRICT
CAROLINE COUNTY, MARYLAND
TAX MAP 63, GRID 4, PARCEL 78

ISSUED FOR: BIDDING DATE: 03/04/25 TWG

SHEET No. **C-501.2** DATE: _____
SCALE: **AS NOTED** JOB No. **240460**
FILE No. **3057**

Date: 03/04/2025 - 12:11pm User: mphillips Project Manager: TWG
Drawing Path: J:\2024\0400\240460\Civil3D-240460 (Dwg)\Pilot\3DT-PLTS-240460.dwg | C-501.2
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