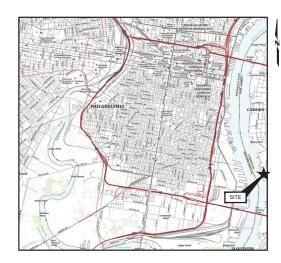
# SOUTH JERSEY PORT CORPORATION REPAIR TO PIER 1 SEAWALL

CAMDEN, NEW JERSEY



STATE or COUNTY MAP (NOT TO SCALE)



(NOT TO SCALE)

DRAWING INDEX		
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5	MR-03	EXISTING SECTIONS
6	MR-04	PROPOSED REPAIR DETAILS - I
7	MR-05	PROPOSED REPAIR DETAILS - II

PREPARED FOR:

PREPARED BY:

SOUTH JERSEY PORT CORPORATION 2 AQUARIUM LOOP DRIVE, SUITE 100 CAMDEN, NJ 08103

GEI CONSULTANTS, INC. 1000 NEW YORK AVENUE, SUITE B HUNTINGTON STATION, NEW YORK





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GEI PROJECT NO. 2305554 MAY 23, 2024

THE SCOPE OF WORK OF THIS PACKAGE SHALL INCLUDE FURNISHING ALL LABOR. MATERIALS, FOUIPMENT AND SERVICES NECESSARY TO COMPLETELY FURNISH, FABRICATE, AND INSTALL THE ITEMS SHOWN ON THE CONTRACT DRAWINGS AND SPECIFIED HEREIN. THE BASIC SCOPE OF WORK INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING ITEMS

1. REMOVE AND DISPOSE OF DEBRIS AT MUDLINE IN THE VICINITY OF OTHER SUBSTRUCTURE REPAIRS. 2. FURNISH AND INSTALL STRUCTURAL ENCASEMENTS FOR STEEL H-PILES AND TIMBER PILES. 3. FURNISH AND INSTALL TIMBER FRAMING REPAIRS AT PIER UNDERDECKSUBSTRUCTURE.

- GENERAL NOTES: 1. THE CONTRACTOR IS ADVISED THAT THE DRAWINGS AND SPECIFICATIONS FORM A PART OF THE CONTRACT DOCUMENTS AND ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL KEEP A COPY OF THE DRAWINGS AND THE SPECIFICATIONS ON SITE AT ALL THESE JORNIS THE WORK.
- SITE AT ALL TIMES DURING THE WORK. 2.11 IS THE CONTRACTORS REPRESENTED TO DETERMINE CONSTRUCTION IF DEDURATIONS ON SEQUENCING TO ENSURE THE SAFETY OF THE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ERECTION, MINTANING, AND REMOVING ALL TEMPLORARY SUPPORT MATERIALS AND EQUIPMENT. 3. STACING AREAS SHOWN IN THIS DRAWING SET ARE APPROXIMATE AND SUBJECT TO CHANGE. FINAL LOCATIONIS TO ENSURE THE SAFETY OF THE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ERECTION, MINTANING, AND REMOVING ALL TEMPLORARY SUPPORT MATERIALS AND EQUIPMENT. 4. CONTRACTOR SHALL FOLLOW ALL APPLICABLE FEDERAL. STATE, AND LOCAL REGULATIONS INCLUDING DEPARTIMENT OF LABOR, SAFETY HEALT HACT AREM CORPS OF ENGINEERS, LOCAL WETANODS CONTRACTOR SHALL FOLLOW ALL APPLICABLE FEDERAL. STATE, AND LOCAL REGULATIONS INCLUDING DEPARTIMENT CLADRO, SAFEL, MINTANE NOWRER MOS SUCCESSIVUE BIDDER 4. CONTRACTOR SHALL FOR LAGUALITIONS AND PENNITS. 5. ELECTION MARKS BEINSPECTION OF INTESTING NECESSAFE 6. CONTRACTOR RESPONSIBLE OF AN ALL DAMATION ENVIRONMENTAL CONTROLS AS REQUIRED BY FEDERAL STATE. AND LOCAL REPORT ON THE OTHER TO ADDUCT TO AND FEMILY 6. CONTRACTOR RESPONSIBLE FOR ALL DAMAGE DONE TO STRUCTURES AND EQUIPMENT, AS WELLAS. 1. CONTRACTOR SHALL BOTON OF OTHERSTRING NECESSAFE 6. CONTRACTOR SHERSPENSION OF OTHERSTRING NECESSAFE 7. CONTRACTOR SHERSPENSION OF OTHER ALL DONE TO STRUCTURES AND ADJACENT STRUCTURES 7. C

- 7. CONTRACTOR SHALL PHOTO AND OR VIDEO DOCUMENT ALL WORK AREAS AND ADJACENT STRUCTURES PRIOR TO STARTING WORK.

## CODES:

AMERICAN SOCIETY FOR TESTING AND MATERIALS (ASTM) AMERICAN WELDING SOCIETY (AWS D1.4/D1.4M)

AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360) NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION (NDS)

AMERICAN CONCRETE INSTITUTE (ACI 318) CONCRETE REINFORCING STEEL INSTITUTE (CRSI)

#### COMPLIANCE WITH ENVIRONMENTAL PERMITS:

- . THE FOLLOWING PERMITS HAVE BEEN ISSUED FOR THE WORK SHOWN IN THESE PLANS: NJ DEP PERMIT: TO BE OBTAINED
- USACE PERMIT: TO BE OBTAINED
- B. USACE PERMIT: TO BE OBTINED THE PERMIT CONDITIONS OF ULLED IN THESE NOTES ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSED. FOR READING AND COMPLYING WITH ALL CONDITIONS STIPULATED I TO THE PLANS CONTAINED HEREIN WERE PREPARED IN ACCORANCE WITH THE ENVIRONMENTAL PERMIT(S). THE CONTRACTOR SHALL NOTIFY THE ENONREEM MMEDIATELY OF ANY DISCREPANCES BETWEEN THE FLANS AND PERMIT(S). WORK PERFORMED SY CONTRACTOR WHICH IS FOUND NONCOMPLIANT WITH PERMIT CONDITIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER A NO ADDITIONAL COST TO THE OWNER.
- SATISFACTION OF THE DIMENSION FOR ADDITIONAL COST FOR THE DIMENSION AND ADDITIONAL COST FOR THE DIMENSION AND ADDITIONAL POSITING THE PERMIT SIGN ENCLOSED WITH THE PERMIT(S) IN A PUBLICLY ACCESSIBLE LOCATION AND MAINTAINING A COPY OF THE ENVIRONMENTAL PERMIT(S) ON SITE AT ALL TIMES.
- PERMIT(5) URS 11 ALL 1MES. NOTICE OF INTER TO COMMENCE WORK. BOTH THE CONTRACTOR AND THE OWNER ARE RESPONSIBLE FOR NOTIFYING THE REGULATORY AGENCIES AT LEAST SEVEN (7) DAYS PROR TO START OF WORK. CONTRACTOR SHALL PROVIDE OWNER WITH AN INTENDED WORK COMMENCEMENT SCHEDULE PER CONTRACTOR STALL FROM
- CONTROL REQUERIENT OF WORK BOTH THE CONTRACTOR AND THE OWNER SHALL NOTIFY THE REQULATORY AGENCIES UPON COMPLETION OF WORK. 6. FUEL SPIL CONTINUENT SYSTEMS SHALL BE ON SITE PRIOR TO CONSTRUCTION.
- 7. CONTRACTOR SHALL CONFINE ALL TEMPORARY STOCKPILES OF EXCAVATED MATERIAL OR IMPORTED FILL USING HAY BALES AND FILTER FABRIC.

- SURVEY CONTROL AND BASELINES: 1. CONDITIONS MAY DIFFER AT TIME OF CONSTRUCTION DUE TO ONGOING EROSION. THE CONTRACTOR SHALL PERFORM A SIMILAR SURVEY PRIOR TO INITIATING CONSTRUCTION. 2. COORDINATES ARE BASED ON NAD 83, NEW YORK STATE PLANE COORDINATE SYSTEM AND ARE
- EXPRESSED IN US SURVEY FEET.

TO ENSURE ACCURATE LOCATION OF ALL ELEMENTS OF THE PROJECT

- 3. ELEVATIONS ON PLAN ARE SHOWN IN FEET AND TENTHS BASED ON THE FACILITY DATUM WHERE MLW EL. 100.00 UNLESS OTHERWISE NOTED
- CONTRACTOR TO CONFIRM PRESENCE AND LOCATION OF EXISTING UNDERGROUND UTILITIES PRIOR TO EXCAVATION
- 5. THE CONTRACTOR SHALL INSTALL SURVEY CONTROL POINTS AS NECESSARY TO PERFORM THE WORK PERMANENT SURVEY CONTROL (AT LEAST 3 POINTS) SHALL BE ESTABLISHED FOR THE PROJECT AND PROTECTED FROM DAMAGE DURING CONSTRUCTION AND PROVIDED ON AS-BUILT DRAWINGS. THE CONTRACTOR SHALL ESTABLISH AND MAINTAIN PROJECT BASELINES AND CONTROL AS REQUIRED

## SITE ACCESS AND STAGING AREAS:

- IN E ACCESS AND STANDING AREASING CONTRACTOR STAGING AREA SHALL BE LOCATED WITHIN THE PROJECT LIMITS AND APPROXIMATE SIZE AS SHOWN ON IN THESE CONSTRUCTION DRAWINGS. FINAL LOCATION AND SIZE SHALL BE DETERMINED 2. NO MATERIALS OR EQUIPMENT SHALL BE STORED OUTSIDE LIMITS SHOWN UNLESS APPROVED BY
- ENGINEER. 2. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SITE SECURITY. CONTRACTOR SHALL PROVIDE PROVIDE TEMPORARY BARRIERS, FENCING OR EQUIVALENT TO PREVENT UNAUTHORIZED ACCESS TO
- CONTRACTOR SHALL BE RESPONSIBLE FOR JOB SAFETY. ALL CONSTRUCTION ACTIVITY SHALL BE IN

Attention

If this scale har

1" then drawing is not original scale.

#### ACCORDANCE WITH OSHA STANDARDS AND LOCAL AND STATE REGULATIONS.

- AREAS OUTSIDE THE LIMITS OF THE WORK DISTURBED OR DAMAGED BY THE CONTRACTOR SHALL BE RETURNED TO THEIR ORIGINAL CONDITION AT NO ADDITIONAL EXPENSE TO THE OWNER. ALL EXISTING PAVEMENT DAMAGED WITHIN THE PROJECT LIMITS SHALL BE REPAIRED AT NO
- ADDITIONAL COST TO THE OWNER THE CONTRACTOR SHALL STAGE AND SEQUENCE CONSTRUCTION TO ENSURE STABILITY OF EXISTING
- CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES TO REMAIN
- CONTRACTOR SHALL SUBMIT EQUIPMENT ACCESS PLAN FOR ENGINEER REVIEW AND APPROVAL PRIOR TO STARTING THE WORK.

#### SITE PREPARATION

- CONTRACTOR SHALL INSTALL ALL SIGNAGE PRIOR TO INITIATION OF CONSTRUCTION ACTIVITIES INCLUDING OWNER PROJECT SIGNAGE, DEC FILE NUMBER AND FEDERAL AND STATE MANDATED WORK PLACE SIGNAGE CONTRACTOR SHALL HAVE IN PLACE TRASH AND SANITARY FACILITIES FOR THE WORK PLACE
- 2. DUVINGLUK SINGLINKE INFORMETINGE INFORMATION INTO SINU SINUTION THE WORK SHALL BE PROTECTED TO PREVENT STRUCTURES AND AMENITIES WITHIN THE PROXIMITY OF THE WORK SHALL BE PROTECTED TO PREVENT ACCIDENTAL DAMAGE BY CONSTRUCTION ACTIVITES.
  0. DISCOVERY OF INCONSISTENT SITE INFORMATION OR CONDITIONS ARE TO BE IMPEDIATELY CONVEYED TO THE OWNER AND ENGINEER PRIOR TO COMMENCING OR CONTINUING CONSTRUCTION.
- THE CONTRACTOR SHALL NOTIFY NEW JERSEY ONE CALL PRIOR TO COMMENCING ANY WORK ON SITE. THE CONTRACTOR SHALL VERIFY EXACT LOCATIONS OF UTILITIES AS MAY BE REQUIRED. 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. ALL REPAIRS SHALL BE MADE AT THE CONTRACTOR'S EXPENSE. 7. CONTRACTOR SHALL MAINTAIN AND PROTECT ALL EXISTING UTILITIES AND DRAINAGE AT ALL TIMES.
- THE CONTRACTOR SHALL REPAIR ANY DAMAGE AND RESTORE TO THE PRE-EXISTING CONDITION AT NO COST TO THE OWNER 8 CONTRACTOR SHALL SUPPLY ALL NECESSARY TEMPORARY LITILITIES FOR CONSTRUCTION INCLUDING
- WATER, POWER, LIGHTING, DATA, TELEPHONE AND SANITARY FACILITIES. CONTRACTOR SHALL READ AND UNDERSTAND ALL REGULATORY CONDITIONS ASSOCIATED WITH THE PROJECT AND SHALL COMPLY WITH ALL ENVIRONMENTAL REQUIREMENTS AND PERMIT CONDITIONS.
- 10 CONTRACTOR SHALL CONFINE ALL OTHER TEMPORARY STOCKILLES OF EXCAVATED MATERIAL OR
- 10. CONTRACTOR SHALL COMPIRE ALL OTHERT REMPORARY STOCKPIES OF EXCAVATED MATERIAL OR IMPORTED FILL USING HAY BALES AND FILTER FABRIC TO COMPORANCE OTHER FRAINT CONDITION 11. CONTRACTOR SHALL PROVIDE A CONFINED CONCRETE TRUCK WASHDOWN AREA AT A LOCATION PAPROVED BY THE ENNIRE. WASHDOWN AREA SHALL INCLUDE PROTECTION TO PAVEMENT, A PERMIETER WALL AND A FILTER FUASTIC LINER. NO RUNOFF CONTAINING CEMENT OR OTHER SUSPENDES DOLIS WILL BE FERMITTED. ALL INSTRUMES SHALL BECOMPLETELY FRAUNCED NO TO ROTHER COMPLETION OF CONSTRUCTION AND DISPOSED OF AT AN APPROVED DISPOSAL LOCATION

#### SUBMITTALS:

## THE CONTRACTOR SHALL SUPPLY ALL SUBMITTALS STATED BELOW AND LISTED IN THE PROJECT SPECIFICATIONS.

- REMOVAL PLAN SHOWING ALL PROPOSED REMOVALS AND EXCAVATIONS. PLAN SHALL INCLUDE REMOVAL SCHEDULE, TEMPORARY SHORING PLAN AS NEEDED, ENVIROMENTAL CONTROLS, SWPPP IMPLEMENTATION, AND POST DEMOLTION SURVEY.
- MEANS AND METHODS. SEQUENCE OF CONSTRUCTION, AND PHASING PLAN
- SHOP DRAWINGS/ERECTION DRAWINGS SIGNED AND SEALED BY A LICENSED P.E. WHEN REQUIRED BY SPECIFICATION OR REQUIRED BY ENGINEER: - AS-BUILT PLANS
- TIMBER FRAMING PLANS AND DETAILS
- 4. PRODUCT DATA: - ALL MATERIAL SAMPLES FOR APPROVAL
- EXTRA MATERIALS
- 5. LUMP SUM BREAKDOWN
- 6. ADDITIONAL PLAN SUBMITTALS: - PRE AND POST CONSTRUCTION SURVEYS AND PHOTO DOCUMENTATION
- STAGING AND SITE ACCESS PLAN DEMOLITION PLAN DEBRIS DISPOSAL PLAN TO IDENTIFY MEANS AND METHODS AND FINAL DISPOSITION
- 7 TESTING RESULTS:
- 8 CERTIFICATES - LABORATORY SPECIFICATION STEEL SHAPE MILL CERTIFICATES
- WELDERS AWS CERTIFICATES TIMBER GRADE AND TREATMENT CERTIFICATES - CRANE INSPECTION
- 9. PERFORMANCE DATA & CALCULATIONS WELDING PROCEDURE SPECIFICATIONS (WPS)
- PROCEDURE QUALIFICATION RECORDS (POR)

Designed: KAA

Checked: ΚΔΔ

Approved M.IK

P.E. No:

GEI Project 2305554

Drawn:

MMM

24GE05500200

10. ALL SUBMITTALS MADE BY CONTRACTOR'S P.E. SHALL BE FOR ACCEPTANCE ONLY. ENGINEER AND OWNER DO NOT TAKE RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS.

#### SELECTIVE DEMOLITION:

- SELECTIVE DEMOLITION AND DISPOSAL SHALL BE PERFORMED IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL PERMIT AND BUILDING CODE REQUIREMENTS. 2. ALL EXCESS MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR & BE DISPOSED OF AT A LICENSED FACILITY UNLESS OTHERWISE ASREED WITH THE OWNER.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE THOSE STRUCTURES AND DERELICT COMPONENTS REQUIRED TO PERFORM THE WORK. THIS WORK INCLUDES BUT IS NOT LIMITED TO RAIL FENCE, FORMS, CONCRETE, AND STEEL DEBRIS, HARDWARE, AND OTHER ITEMS. THE LOCATION OF THESE STRUCTURES AND COMPONENTS MAY OR MAY NOT BE IDENTIFIED IN THE CONTRACT
- DOCUMENTS 4. SELECTIVE DEMOLITION INCLUDES BUT IS NOT LIMITED TO REMOVAL AND REUSE (WHERE INDICATED IN

SUITE 310 OMFIELD, NJ 07003 (973)873-7110 BLOC

MATERIALS, UTILITIES AND OTHER COMPONENTS ESSENTIAL FOR A COMPLETE PROJECT 5 THE CONTRACTOR SHALL TAKE REASONABLE CARE IN REMOVING ELEMENTS SELECTED TO BE SALVAGED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS SALVAGE ON DESTINCTION BY THE CONTRACTOR TO THE EXISTING ELEMENTS DESIGNATED TO REMAN SHALL BE REPARED OR REPLACED INKIND AT THE BOSCRETION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.

PLAN FOR ITEMS TO BE DEMOLISHED. DEMOLITION MATERIAL DESIGNATED BY THE OWNER'S

IDENTIFY THE MEANS AND METHODS AND FINAL DISPOSITION FOR DISPOSAL MATERIALS.

LOCATIONS

OPERATIONS

CONSTRUCTION OPERATIONS.

EXCAVATING, BACKFILLING, AND COMPACTION:

CONTRACTOR QUALITY CONTROL:

AIR ENTERTAINMENT

CONCRETE:

SOUTH JERSEY PORT

CORPORATION

2 AQUARIUM DRIVE,

SUITE 100

CAMDEN, NJ 08103

MONITORING:

REPRESENTATIVE TO BE REMOVED FROM THE SITE SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THE DEBRIS DISPOSAL PLAN SHALL ACKNOWLEDGE THIS OWNERSHIP AND SHALL

10 THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING THE COURSE OF DEMOLITION AND CONSTRUCTION. AND RELATED SAFETY PROTOCO

THE CONTRACTOR SHALL SUBMIT A DISPOSAL CERTIFICATE TO THE OWNER'S REPRESENTATIVE CRITIFYING LEGAL AND PROPER DISPOSAL. THE MANIFEST SHALL BE DATED AND INDIGATE THE TYPE OF MATERIA, QUANTITY AND DISPOSAL. FACILITY.

12. CONTRACTOR TO SUBMIT LIST OF SALVAGED MATERIALS TO OWNER. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH OWNER AND DELIVER SALVAGED MATERIALS TO AGREED UPON STORAGE

THE EXISTING CONCRETE SEAWALL TO BE MONITORED FOR DISPLACEMENT DURING CONSTRUCTION

2. CONTRACTOR TO SUBMIT A MONITORING PLAN FOR APPROVAL PRIOR TO REMOVAL, DEMOLITION, AND

3. PRE-CONSTRUCTION AND POST-CONSTRUCTION SURVEY REPORTS, INCLUDING PHOTOGRAPHS OF

THE PRE-CONSTRUCTION REPORT MUST BE SUBMITTED AT LEAST 10 WORKING DAYS PRIOR TO COMMENCEMENT OF THE PROJECT.

6. THE POST-CONSTRUCTION REPORT SHALL CONTAIN PRE/POST-CONSTRUCTION CONDITIONS OF THE

AND BROUGHT TO ITS ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER

. GRANULAR FILL SHALL CONSIST OF BROKEN OR CRUSHED STONE, BANK OR CRUSHED GRAVEL, OR

THE INSECURE INDUCION REPORT SHALE SPECIALY THE EXISTING CANUTION OF THE UNROVE THE SERVAUL AND OFFICIENT OT THE CALLAW WORK, ANY PRE-EXISTING CONDITIONS SUCH AS CARCASS, SPALLS, DETERIORATION, AND ROTATION SHALL BE POINTED OUT IN THE REPORT WITH PHOTOGRAPHA ANY DEVANTION DESERVED POST-CONSTRUCTION WITH BE DEBAUET OF HAVE COLURRED AS A RESULT OF CONSTRUCTION ACTIVITIES AND SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

CONCRETE SEAWALL ANY DEVIATION FROM THE PRE-CONSTRUCTION REPORT SHALL BE HIGHLIGHTED AND ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAIRED

MIXTURES THEREOF. BROKEN OR CRUSHED STONE SHALL CONSIST OF WELL-GRADED, SOUND, TOUGH, DURABLE STONE, BANK OR CRUSHED GRAVEL SHALL CONSIST OF WELL-GRADED, SOUND, TOUGH.

DURABLE PARTICLES OF CRUSHED OR UNCRUSHED GRAVEL FREE FROM SOFT, THIN, ELONGATED OR LAMINATED PIECES AND ORGANIC OR OTHER DELETERIOUS SUBSTANCES. STRUCTURAL FILL SHALL BE

WELL GRADED WITH 100% MASS PASSING THE 60 MM (3 5) SQUARE MESH SIEVE. CONTRACTOR SHALL SUBMIT AN INDEPENDENT GRADATION ANALYSIS AND MODIFIED PROFECTOR TEST TO THE OWNERS REPRESENTATIVE FOR APPROVAL INCLUDE A REPRESENTATIVE SAMPLE OF THE FILL MATERIAL WITH THE SUBMITAL.

THE CONTRACTOR SHALL EXCAVATE, BACKFILL, COMPACT, AND GRADE THE SITE TO THE ELEVATIONS AND LIMITS SHOWN AND AS NEEDED TO MEET THE REQUIREMENTS OF THE CONSTRUCTION.

AND UMITS SHOWN AND AS NEELED TO MEET THE NEURIPEINTS OF THE LURS INCUTION. S STRUCTURAL FILL SHALL BE PLACED IN LAYERS OF MAXIMMIN B'IN DEPTH BEFORE COMPACTION. DO NOT PLACE FILL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAINING FROST OR ICE PLACE FILL MATERIALS SEVENT JAUACENT TO STRUCTURES, TO REQUIRE ELEVATION BE AND PLACE FILL MATERIALS SEVENT JAUACENT TO STRUCTURES, TO REQUIRE ELEVATION SE AND MUNICIPALITY AND AND THE STRUCTURE TO APPROXIMATE YTHE SAME ELEVATION IN EACH UFF.

PERCENTAGE OF DENSITY SPECIFIED FOR EACH AREA AS DETERMINED ACCORDING TO ASTM \$1557

STRUCTURAL FILL AREAS SHALL NOT FALL BELOW 95% OF ITS DENSITY AT OPTIMUM MOISTURE CONTENT. COMPACTION SHALL BE DONE DURING DRY CONDITIONS OR AS REQUIRED BY ASTM S1557.

5. CONTRACTOR SHALL EMPLOY COMPACTION EQUIPMENT OF SIZE AND WEIGHT SUITABLE TO USE AT THIS SITE WITHOUT DAMAGING SUPPORTING OR ADJACENT STRUCTURES. CONTRACTOR SHALL SUBMIT

SIGNED AND SEALED CALCULATIONS FOR ANY EQUIPMENT PROPOSED TO BE LOCATED OR STORED DIRECTLY BEHIND THE STEEL SHEET PILE WALL.

THE CONTRACTOR IS RESPONSIBLE FOR THE QUALITY CONTROL, FIELD INSPECTION AND TESTING OF MATERIALS INCLUDING BUT NOT LIMITED TO EARTHWORK COMPACTION, EARTH WORK MATERIALS, CONCRETE ENA MATERIALS, CONCRETE STRENGTH AT 7 AND 28 DAYS, CONCRETE SLUMP, AND CONCRET

PERFORM WORK AND SUPPLY MATERIALS IN CLOSE CONFORMITY WITH THE LINE, GRADES, CROSS SECTIONS, DIMENSIONS AND MATERIAL REQUIREMENTS SHOWN IN THE ISSUED FOR CONSTRUCTION

3. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SURVEYING AND FIELD MEASUREMENTS TO VERIFY CONFORMANCE WITH LINES, GRADES, CROSS SECTIONS AND DIMENSIONS.

ALL REINFORCEMENT SHALL BE NEW DEFORMED STEEL BARS, GRADE 60 CONFORMING TO ASTM 4615

3/4 INCH

675 LBS

0.40

5,000 PSI AT 28 DAYS

ASTM C150, TYPE II

2. REINFORCEMENT ACCESSORIES SHALL BE DIELECTRIC COATED STEEL OR APPROVED PLASTIC

**REPAIR TO PIER 1** 

SEAWALL

BROADWAY MARINE TERMINAL

CAMDEN, NJ 08103

HOT DIP GALVANIZED CONFORMING TO ASTM A-767 OR A-1094

AIR ENTRAINMENT SHALL BE MAINTAINED AT 4 5% - 7 5%

MINIMUM COMPRESSIVE STRENGTH:

CEMENT SHALL MEET

MAX. PORTLAND CEMENT

- MAXIMUM SIZE OF AGGREGATE SHALL BE

MAX. WATER TO CEMENT RATIO SHALL BE

- MIN. CEMENTITIOUS MATERIAL PER CY

3. CONCRETE FOR FENCE POSTS SHALL HAVE THE FOLLOWING SPECIFICATIONS:

4. CONTROL STRUCTURAL FILL COMPACTION DURING CONSTRUCTION TO PROVIDE THE MINIMUM

5. THE PRE-CONSTRUCTION REPORT SHALL SPECIFY THE EXISTING CONDITION OF THE CONCRETE

EXISTING CONDITIONS AND CONDITIONS AFTER COMPLETION WILL BE REQUIRED

- 6. ITEMS TO BE REMOVED AND REUSED SHALL BE PLACED IN A STAGING AREA ACCESSIBLE FOR REGULAR INSPECTION BY THE OWNER'S REPRESENTATIVE THROUGHOUT DURATION OF WORK 7 PRIOR TO COMMENCEMENT OF SELECTIVE DEMOLITION. THE CONTRACTOR SHALL SUBMIT A DISPOSAL
- SLAG 50% BY MASS

- MAX\_CEMENT REPLACEMENT

ALL CONCRETE SHALL BE PROVIDED WITH EUCLID EUCON BCN CORROSION INHIBITOR ADMIXTURE AT A DOSAGE RATE OF 2.0 GAL/CY OR APPROVED EQUAL. 5. GROUT SHALL BE A HIGH STRENGTH, NON-SHRINK GROUT WITH SALTWATER RESISTANCE, SUCH AS SIKAGROUT 212 WITH CORROSION INHIBITOR, PROSPEC HIGH STRENGTH PRECISION GROUT, OR

FLY ASH 25% BY MASS

- APPROVED EQUAL 6 CONCRETE COVER SHALL BE A MINIMUM OF 3" UNLESS NOTED OTHERWISE
- CONCRETE COVER SHALL BE A MINIMUM OF 3" WHERE CONCRETE IS CAST DIRECTLY ON SOIL.
- 8. ALL EXPOSED EDGES OF CONCRETE AT COLD JOINTS SHALL HAVE A ROUGHENED FINISH AND BE
- COATED WITH EPOXY BONDING AGENT PRIOR TO CASTING ADJACENT POUR ALL CONSTRUCTION JOINTS SHALL BE ROUGHENED TO A 1/4\* AMPLITUDE PRIOR TO ADJACENT CONSTRUCTION JOINTS SHALL BE ROUGHENED TO A 1/4\* AMPLITUDE PRIOR TO ADJACENT CONCRETE POUR.
- PRIOR TO COMMENCEMENT OF DEMOLITION, THE CONTRACTOR SHALL CLEARLY MARK THE LIMITS OF THE DEMOLITION FOR REVIEW AND APPROVAL BY THE OWNER AND OWNER'S REPRESENTATIVE. COMPLETELY REMOVE ITEMS DESIGNATED LEAVING SURFACES CLEAN, SOUND AND READY TO RECEIVE NEW MATERIALS AS SPECIFIED IN THE CONTRACT DOCUMENTS. 10. ALL TOP SURFACES SHALL BE FLOAT FINISH.
  - 11. ALL CONCRETE CORNERS SHALL BE 3/4" CHAMFERS UNLESS OTHERWISE NOTED.

#### STRUCTURAL STEEL

- 1. STEEL FABRICATION AND ASSEMBLY SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, LATEST EDITION.
- 2. ALL STRUCTURAL STEEL SHAPES, SHALL CONFORM TO ASTM A-572, GRADE 50 UNLESS OTHERWISE 3. STEEL BOLTS FOR STEEL MEMBER CONNECTIONS SHALL CONFORM TO ASTM F3125, GRADE A325.
- 4. ALL HARDWARE SHALL BE HOT DIP GALVANIZED IN ACCORDANCE W/ ASTM SPECIFICATIONS A-123.
- 5. WELDING RODS SHALL CONFORM TO AWS E70XX GRADE. 6. STAINLESS STEEL PLATES, BARS, ANCHORS AND SHAPES SHALL CONFORM TO ASTM SERIES 300 TYPE 316 ALL OY
- ALL MEMBERS, SPLICE PLATES, BRACKETS AND FASTENERS SHALL BE HOT DIP GALVANIZED UNLESS NOTED OTHERWISE.

#### TIMBER

TO

- I. UNLESS OTHERWISE SPECIFIED, ALL TIMBER TO BE USED SHALL BE SELECT STRUCTURAL SOUTHERN PINE AS GRADED BY SPIB AND WITH DESIGN VALUES PER NFPA NATIONAL DESIGN SPECIFICATION OR THE EQUIVALENT FOR DOUGLAS FIR AS GRADED BY WCLIB AND WWPA.
- THE EDUNALENT FOR UDGULS THAS GROUED BY WILD AND YWYLA 2. ALT TIMER SHALL BE REV AND SUPPLED WITH NORMAL DIMENSIONS UNLESS OTHERWISE NOTED. TIMERS SHALL BE FINISHED AS UNLESS NOTED OTHERWISE. 3. ALL NEV TIMER MEMBERS TO VINICH THE PUBLIC ANY BE LAPOSED SHALL BE TREATED WITH ALKALINE COMPER QUALERNARY (ACQ) IN ACCORDANCE WITH AWAS STANDARDS TO A RETENTION OF D6 LISS/CUTY FOR EQUAL APPROVED.
- 4. MISC. HARDWARE: GALVANIZED STEEL PLATES SHALL BE FASHIONED FROM STEEL AND GALVANIZED
- AFTER FABRICATION AND IN ACCORDANCE WITH REQUIREMENTS OF ASTM A123 AND / OR A153
- APTER FRANKAR FOR TIMBER MATERIALS GRAFTER THAN 1/2" DIAMETER SHALL CONFORM TO A STM ALL FASTENERS FOR TIMBER MATERIALS GRAFTER THAN 1/2" DIAMETER SHALL CONFORM TO A STM A307, GR. A FOR MILD STEEL BOLTS UNLESS OTHERWISE NOTED AND SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM SPECIFICATIONS A-123 AND A-153. 6. ALL FASTENERS FOR TIMBER MATERIALS 1/2" NOMINAL DIAMETER AND LESS SHALL BE STAINLESS STEEL

### STRUCTURAL ENCASEMENT:

EXISTING PILE

- CONTRACTOR IS RESPONSIBLE FOR PROVIDING MEANS AND METHODS TO ALLOW WATER TO DISPLACE DURING CONCRETE PUMPING OPERATIONS TO FLOW FROM THE ENCASEMENT. 2. ALL STEEL AND TIMBER SURFACES SHALL BE CLEANED AND FREE OF DEBRIS.

. REMOVE ANY FORMWORK OR ANY OTHER MATERIAL OBSTRUCTIONS

MINIMUM OF 24 HOURS AFTER A PUMPING EVENT

100-YEAR RETURN BASE FLOOD FLEVATION IVE ZONE

H WATER (MHH)

NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD8

M.IK

1 APP

MEAH HIGH WATER SPRING (MHWS)

MEAN HIGH WATER (MHW)

MEAN TIDE LEVEL (MTL)

MEAN LOW WATER (MLW)

NOTE(S)

5/23/2024 ISSUED FOR BID

NO DATE

1 2/21/2024 PRELIMINARY PERMIT SET MJK

ISSUE/REVISION

MEAN LOWER-LOW WATER (MLLW)

VHERE MLW EL. 100.00 UNLESS OTHER

- 3. A LEVEL OF PUMPING PORTS SHALL BE AT THE BOTTOM OF THE ENCASEMENT SO AS TO PUMP THE CONCRETE FROM BOTTOM TO TOP
- THE CONTRACTOR, AT THEIR OPTION, MAY INSTALL MULTIPLE LEVELS OF PUMPING PORTS TO MINIMIZE THE PUMPING PRESSURES. 5. REQUIRED DEPTH OF EXCAVATION SHALL BE MEASURED FROM THE DOWNSLOPE FACE OF THE 7. CONTRACTOR TO PROVIDE ONE (1) WATER AGITATOR/DEICER CENTERED AT AREA(S) OF REPAIR FOR A

TIDAL DATUM CHART

0.20 3.80 6.88

0.00 3.60

-3.60 0.00

-6.49 -2.89

-6.68

SHEET NAME

GENERAL NOTES

ELEVATIONS ON PLAN ARE SHOWN IN FEET AND TENTHS BASED ON THE FACILITY DATUM

BASE FLOOD ELEVATION (BFE) BASED ON FEMA PRELIMINARY FLOOD MAP (PFIRM) DATED

REFERENCE DATUM

MHHW NAVD88 MLLW FACILITY DATUM

6.68

3.08

0.19

-3.08 0.00

106.69

106.09

103.04

102.89

99.81

SHEET NO

G-01

7.40 11.00 14.08

-0.40 3.20 6.28

-3.20 0.40 3.48

-3.34 0.26 3.34

-3.45 0.15 3.23

