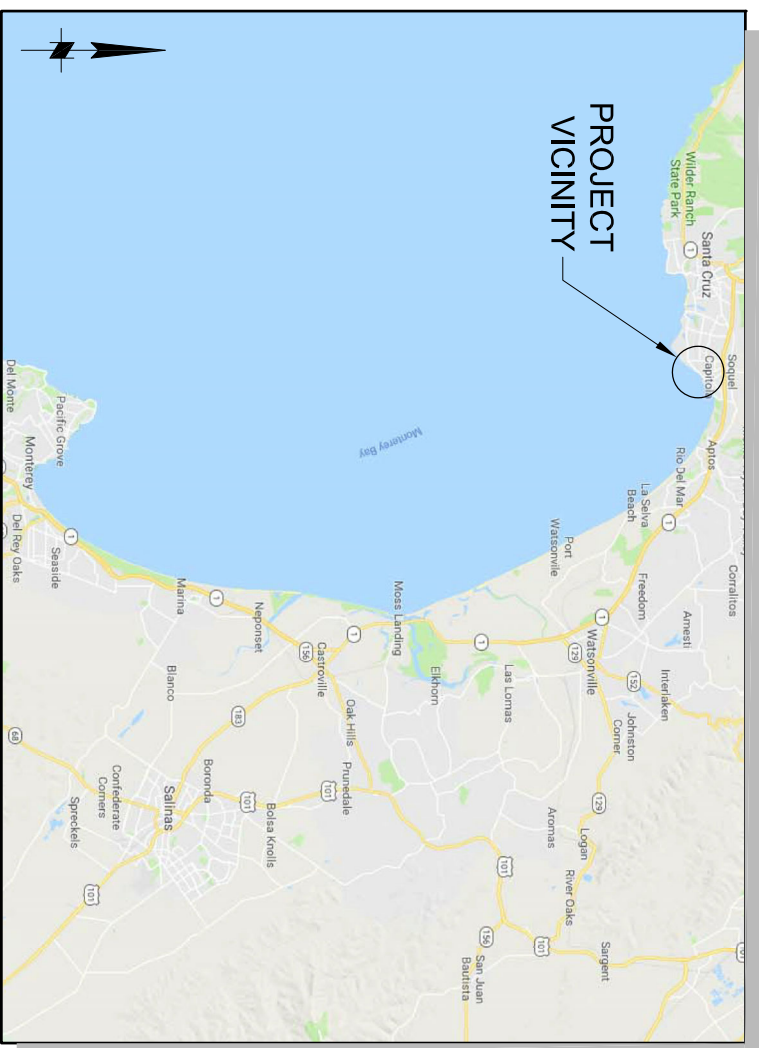


CAPITOLA WHARF

RESILIENCY AND PUBLIC ACCESS

IMPROVEMENT PHASE 1



VICINITY MAP
SCALE: NTS

| INDEX OF DRAWINGS | |
|-------------------|---------------------------|
| SHEET NO | SHEET TITLE |
| G-001 | TITLE SHEET |
| G-002 | GENERAL NOTES |
| G-003 | EXISTING CONDITION PHOTOS |
| S-001 | WHARF PLAN & ELEVATION |
| S-002 | REPAIR PLAN |
| S-003 | STEEL PILE REPAIR DETAILS |
| S-004 | TIMBER REPAIR DETAILS |



LOCATION PLAN
SCALE: NTS

TIDAL DATUM (MONTEREY GAUGE)

MEAN HIGHER HIGH WATER (MHHW) +5.33ft

MEAN SEA LEVEL (MSL) +2.83ft

MEAN LOWER LOW WATER (MLLW) 0ft

NORTH AMERICAN VERTICAL DATUM (NAVD) -0.13ft



APPROVED, CITY OF CAPITOLA

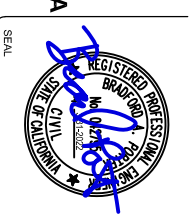
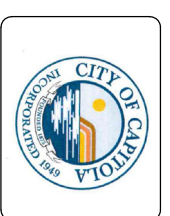
STEVEN JESBERG, PUBLIC WORKS DIRECTOR
REF: 44/791, EXP: 3-31-22

ISSUED FOR BID
JULY 14, 2021

| | | | |
|---|------------------------------|---|--|
| | | 2185 N. CALIFORNIA BLVD. SUITE 500 WALNUT CREEK, CA 94596 | |
| Designed by: AC | Date: 6/23/2021 | Rev. 0 - | |
| Dwn by: AC | Ckd by: BP | M&N Project No.: 9154-01 | |
| Reviewed by: REVR | Drawing code: | Drawing Scale: | |
| Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL | Plot scale: 1:1 (D SHEET) | | |

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| CAPITOLA WHARF RESILIENCY AND PUBLIC ACCESS IMPROVEMENT | |
| TITLE SHEET | |

| Mark | Description | Date | Appr. |
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| Sheet Reference No. G-001 |
| INDEX: 1 OF 14 |

GENERAL NOTES

- ELEVATIONS SHOWN ARE IN FEET REFERENCED TO MEAN LOWER LOW WATER.
- DEMOLITION OF EXISTING FEATURES SHALL BE LIMITED TO THE ITEMS SHOWN ON THE PLANS AND DESCRIBED IN THE SPECIFICATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE EXISTING FEATURES TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR.
- CONTACT THE CITY IMMEDIATELY UPON FINDING ANY FIELD CONDITIONS THAT CONFLICT WITH THE INFORMATION ON THESE DRAWINGS. ALL FIELD ADJUSTMENTS MUST BE APPROVED BY THE CITY BEFORE CONSTRUCTION OF SAID ADJUSTMENTS. FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR ASSUMING FULL RESPONSIBILITY FOR ANY REQUIRED REVISIONS OR FIELD MODIFICATIONS, AS DIRECTED BY THE CITY, AT NO ADDITIONAL COST.
- PROVIDE CONSTRUCTION SITE SECURITY FOR THE DURATION OF THE CONTRACT PERIOD AND AS SPECIFIED.

- FURNISH, INSTALL AND MAINTAIN ALL WARNING SIGNS AND DEVICES NECESSARY TO SAFEGUARD THE GENERAL PUBLIC AND THE WORK, AND PROVIDE PROPER AND SAFE ROUTING OF VEHICULAR AND PEDESTRIAN TRAFFIC DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO WORKING HOURS.
- KEEP THE PROJECT SITE IN A NEAT AND ORDERLY CONDITION, FREE OF RUBBISH AND DEBRIS, AT ALL TIMES. THE SITE SHALL BE CLEANED OF DEBRIS AT THE END OF EACH DAY AND AT THE CONCLUSION OF REMOVAL WORK.

- ALL WORK SHOWN SHALL BE NEW UNLESS OTHERWISE NOTED.
- ALL WORK SHALL CONFORM TO THE PERMIT CONDITIONS ISSUED FOR THE PROJECT BY THE REGULATORY AGENCIES:
 - CALIFORNIA COASTAL COMMISSION,
 - US ARMY CORP OF ENGINEERING,
 - REGIONAL WATER QUALITY CONTROL BOARD.

- PERMIT COMPLIANCE SHALL BE A BID ITEM. COPIES OF PERMITS MUST BE KEPT ON SITE.
- AN HISTORIC RECORDS SEARCH HAS BEEN PERFORMED FOR THE PROJECT AND A REVIEW OF THE HISTORIC INTEGRITY PERFORMED. THE FOLLOWING SHALL BE ADHERED TO DURING THE PROJECT:
 - THE EXTENTS OF THE PROJECT SHALL NOT EXCEED THE LIMITS SHOWN ON THE DRAWINGS.
 - THE STORAGE OF ALL CONSTRUCTION DEBRIS, MATERIALS AND EQUIPMENT SHALL BE RESTRICTED TO WITHIN THE DESIGNATED CONSTRUCTION STAGING AREA SHOWN ON THE PROJECT PLANS.
 - NO EXCAVATIONS SHALL OCCUR WITHIN THE ON-SHORE PORTIONS OF THE PROJECT SITE OR STAGING AREA, INCLUDING THE REMAINING WALL AT THE WHARF ENTRANCE, THE WHARF PARKING LOT AND WHARF ROAD.

CODES AND STANDARDS

- 2019 CALIFORNIA BUILDING CODE (CBC)
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), STEEL CONSTRUCTION MANUAL, 14TH EDITION
- AMERICAN FOREST & PAPER ASSOCIATION, NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION, NDS 2015 EDITION
- AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDING AND OTHER STRUCTURES, ASCE 7-16
- AMERICAN CONCRETE INSTITUTE (ACI), BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY, ACI 318-14.

PILE REPAIR

- STEEL PILES INDICATED SHALL BE REPAIRED WITH A PILE JACKET SYSTEM COMPRISE D OF A HDPE OR FIBERGLASS JACKET, ENCASING A STEEL REINFORCED GROUT FILL. BOTTOM OF PILE JACKET SHALL BE SEALED WITH AN EPOXY GROUT SUITABLE FOR SUBMERSION IN SALT WATER.
- THE PILE JACKET SHALL BE EITHER HDPE PIPE AS SHOWN OR A FIBERGLASS JACKET MANUFACTURED FOR USE IN SALT WATER EXPOSURE THAT CAN WITHSTAND THE PRESSURE OF THE GROUT PLACEMENT WITH NO LEAKAGE.
- MONITOR PRESSURE-INJECTION OR GRAVITY-FEED GROUT APPLICATION TO ENSURE MATERIAL DOES NOT LEAK INTO WATER.
- EXCESS GROUT PUMPED OUT THROUGH PORTS OR JACKET OPENINGS SHALL BE COLLECTED AND REMOVED IMMEDIATELY.

LUMBER

- STRUCTURAL LUMBER SHALL BE DOUGLAS FIR-LARCH NO. 1 OR BETTER AS SPECIFIED BY THE WEST COAST LUMBER INSPECTION BUREAU, VISUALLY GRADED LUMBER.
- STRUCTURAL LUMBER SHALL BE CHEMICALLY TREATED WITH ACZA FOR MARINE EXPOSURE, SALTWATER SPLASH PER AWPA STANDARD 45, 4C.
- DECK BOARDS REMOVED TO CREATE ACCESS FOR INSTALLATION OF SUPPORT BEAMS SHALL HAVE THEIR ENTIRE LENGTH REPLACED.

HARDWARE

- ALL STEEL PLATES, BOLTS, LAG BOLTS, NUTS, AND WASHERS SHALL BE HOT DIP GALVANIZED. BOLTS SHALL HAVE FLAT WASHERS AT THE NUT AND HEAD, UNLESS NOTED OTHERWISE.
- BOLTS SHALL CONFORM TO ASTM A307A.
- DECK PLANKS SHALL BE CONNECTED TO STRINGERS WITH 2-80D SPIKES AT EACH STRINGER.
- DRIFT PIN MATERIAL SHALL BE SS, DIAMETER TO MATCH EXISTING.

REINFORCEMENT

- ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60.
- REINFORCING BARS SHALL NOT BE WELDED WITHOUT THE ENGINEER'S APPROVAL.

GROUT

- CEMENTITIOUS UNDERWATER GROUT SHALL BE NON-SHRINK CEMENTITIOUS UNDERWATER GROUT APPROVED BY ENGINEER.
- MARINE EPOXY GROUT SHALL BE A MULTIPURPOSE MARINE EPOXY GROUT APPROVED BY THE ENGINEER.
- TOP SEAL EPOXY SHALL BE TROWEL-GRADE EPOXY APPROVED BY THE ENGINEER.
- ALL GROUT SHALL BE PLACED TO OBTAIN UNIFORM COVERAGE WITHOUT VOIDS. THE CONTRACTOR SHALL SUBMIT A GROUTING PROCEDURE FOR APPROVAL BY THE ENGINEER.

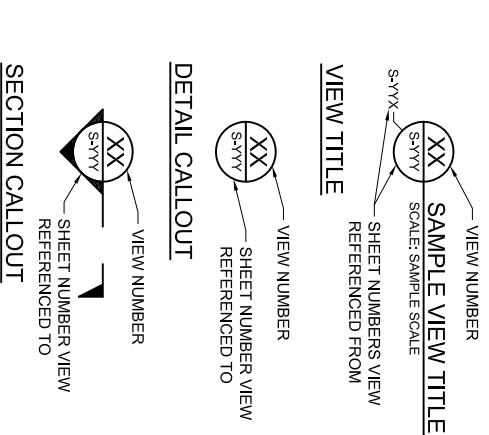
PREPARATION OF EXISTING STEEL PILES

- MECHANICALLY (WATER BLAST/WIRE BRUSH) REMOVE GREASE, RUST MARINE GROWTH, LOOSE AND UNSOUND (DELAMINATED) STEEL, AND OTHER BOND INHIBITING MATERIALS.
- THE EXTENT OF (E) PILE CLEANING SHALL BE FROM SANDLINE TO TOP OF CUT PILE.
- LOCATION OF PILE CUT SHALL BE WITHIN THE LIMITS SHOWN AT CONTRACTORS OPTION CONSIDERING THE REMOVAL OF SAND WITHIN THE PILE. GROUT PLACEMENT METHOD AND INSTALLATION OF PILE JACKET.

ABBREVIATIONS

| | |
|--------|---------------------------|
| & | AND |
| @ | AT |
| APPROX | APPROXIMATE |
| CL | CENTER LINE |
| CLR | CLEAR |
| CONC | CONCRETE |
| DIA | DIAMETER |
| (E) | EXISTING |
| EHW | EXTREME HIGH WATER |
| EL | ELEVATION |
| FT | FEET |
| HDG | HOT-DIP GALVANIZED |
| HSS | HOLLOW STRUCTURAL SECTION |
| HTL | HIGH TIDE LINE |
| (N) | NEW |
| MAX | MAXIMUM |
| MIN | MINIMUM |
| MHW | MEAN HIGH WATER |
| MHHW | MEAN HIGHER HIGH WATER |
| MLLW | MEAN LOWER LOW WATER |
| MTL | MEAN TIDE LEVEL |
| NTS | NOT TO SCALE |
| OC | ON CENTER |
| PL | PLATE |
| SIM | SIMILAR |
| TYP | TYPICAL |
| UN | UNLESS OTHERWISE NOTED |
| VIF | VERIFY IN FIELD |
| SS | STAINLESS STEEL |

CROSS REFERENCE LEGEND



CAPITOLA WHARF RESILIENCY AND PUBLIC ACCESS IMPROVEMENT

GENERAL NOTES

Designed by: AC Date: 6/23/2021 Rev: 0

Dwn by: AC Ckd by: BP M&N Project No.: 9154-01

Reviewed by: REV Drawing code:

Submitted by: MOFFATT & NICHOL Drawing Scale: Plot scale: 1:1 (D SHEET)

2185 N. CALIFORNIA BLVD. SUITE 500 WALNUT CREEK, CA 94596

moftatt & nichol

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 10123
MOFFATT & NICHOL

Sheet Reference No. **G-002**

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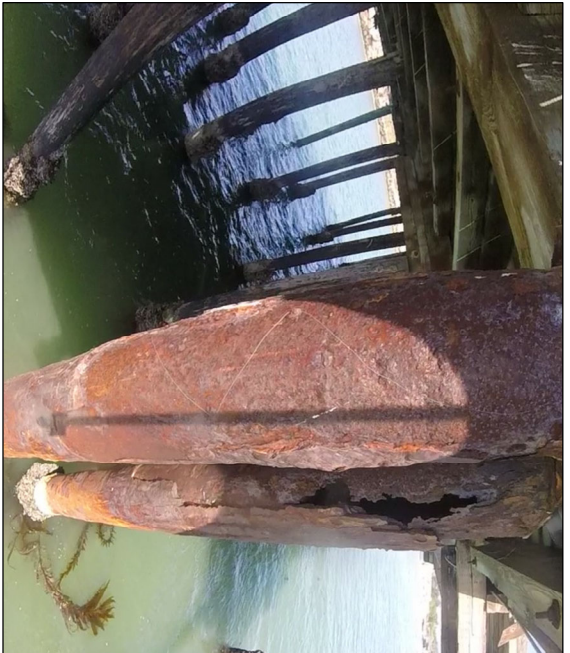


PHOTO 1
STEEL PILES - BENT 74A



PHOTO 2
STEEL PILES - BENT 75B

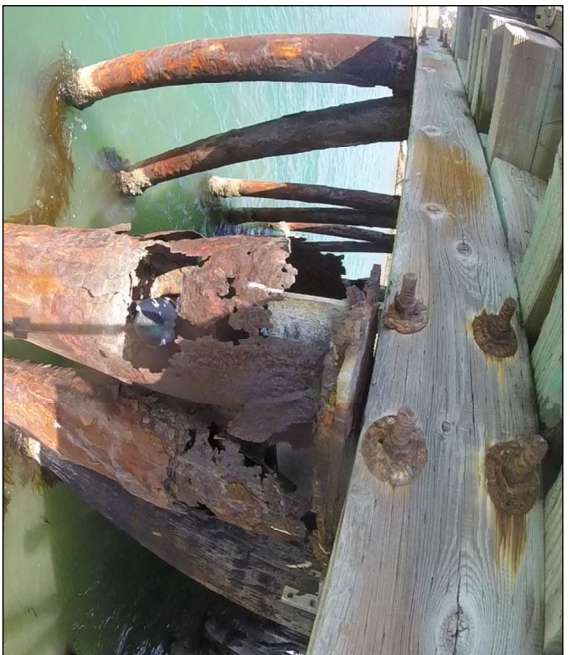


PHOTO 3
STEEL PILES - BENT 76C



PHOTO 4
STEEL PILES - BENT 76D



PHOTO 5
STEEL PILES - BENT 75E



PHOTO 6
STEEL PILES - BENT 75F



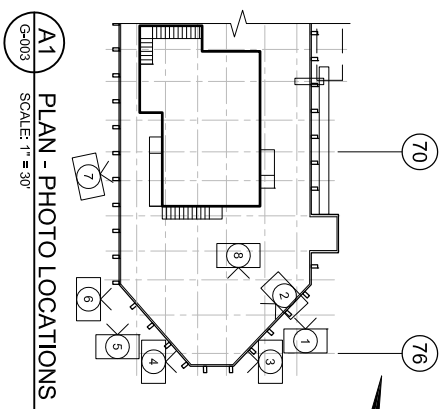
PHOTO 7
MISSING TIMBER PILES BELOW RESTAURANT



PHOTO 8
SAG IN WHARF STRUCTURE

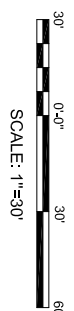


PHOTO 9
HEAD OF WHARF



LEGEND:

PHOTO REFERENCE SEE G-003
DIRECTION OF PHOTO



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JULY 14, 2021

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING



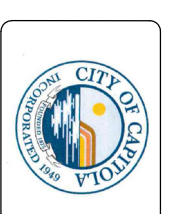
moffatt & nichol
2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

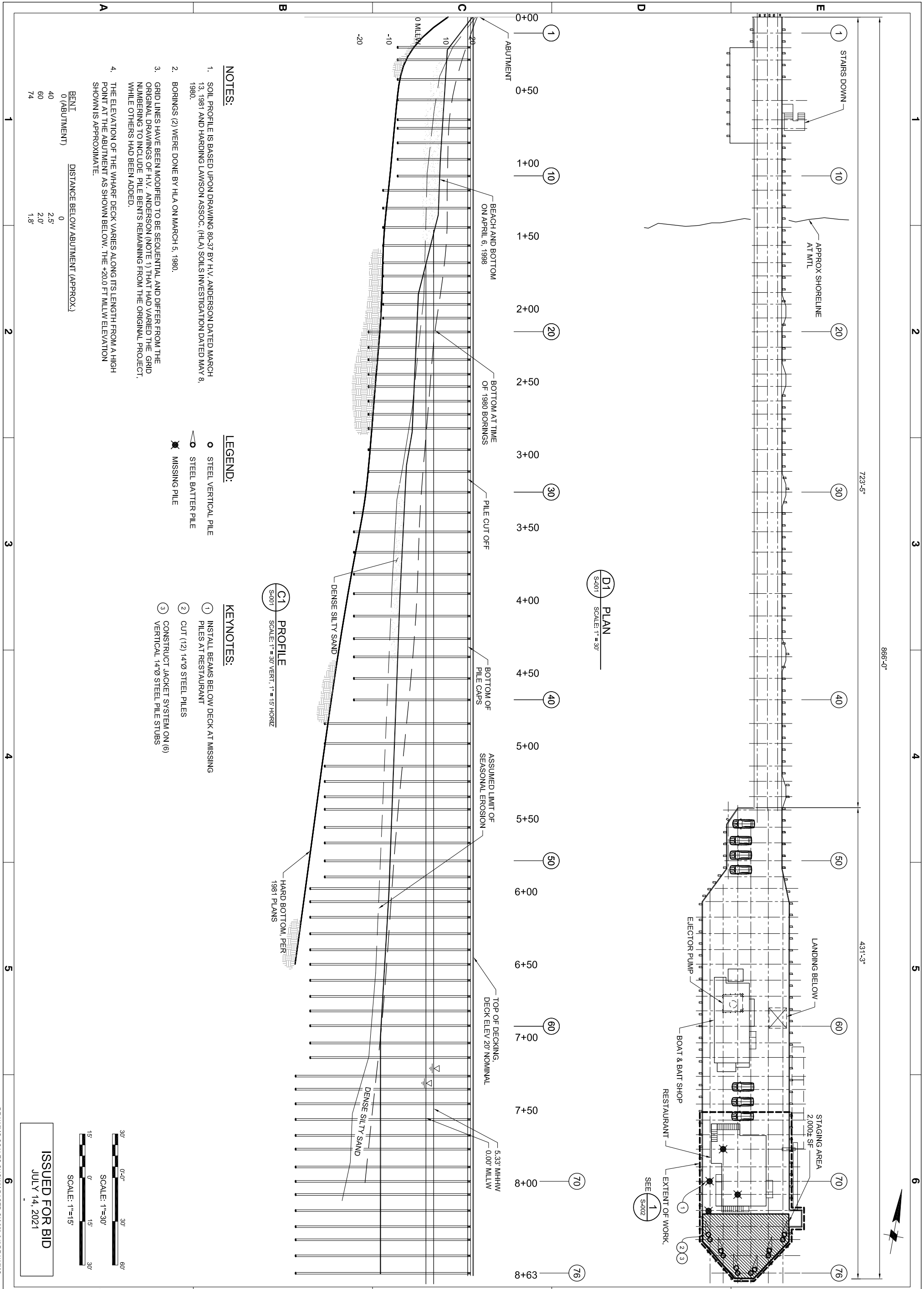
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| Designed by: AC | Date: 6/23/2021 | Rev. 0 - |
| Dwn by: AC | Ckd by: BP | M&N Project No.: 9154-01 |
| Reviewed by: REV | Drawing code: | |
| Submitted by: MOFFATT & NICHOL | Drawing Scale: Plot scale: 1:1 (D SHEET) | |

**CAPITOLA WHARF
RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT**

**EXISTING CONDITION
PHOTOS**

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NOTES:

1. SOIL PROFILE IS BASED UPON DRAWING 80-37 BY H.V. ANDERSON DATED MARCH 13, 1981 AND HARDING LAWSON ASSOC. (HLA) SOILS INVESTIGATION DATED MAY 8, 1980.
2. BORINGS (2) WERE DONE BY HLA ON MARCH 5, 1980.
3. GRID LINES HAVE BEEN MODIFIED TO BE SEQUENTIAL AND DIFFER FROM THE ORIGINAL DRAWINGS OF H.V. ANDERSON (NOTE 1) THAT HAD VARIED THE GRID NUMBERING TO INCLUDE PILE BENTS REMAINING FROM THE ORIGINAL PROJECT, WHILE OTHERS HAD BEEN ADDED.
4. THE ELEVATION OF THE WHARF DECK VARIES ALONG ITS LENGTH FROM A HIGH POINT AT THE ABUTMENT AS SHOWN BELOW. THE +20.0 FT MILLW ELEVATION SHOWN IS APPROXIMATE.

LEGEND:

- STEEL VERTICAL PILE
- ◐ STEEL BATTER PILE
- ✕ MISSING PILE

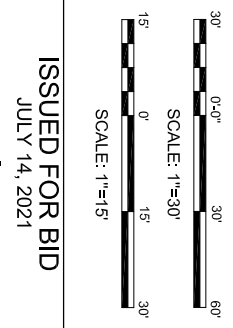
KEYNOTES:

- ① INSTALL BEAMS BELOW DECK AT MISSING PILES AT RESTAURANT
- ② CUT (12) 14"Ø STEEL PILES
- ③ CONSTRUCT JACKET SYSTEM ON (6) VERTICAL 14"Ø STEEL PILE STUBS

C1 PROFILE
SCALE: T = 30' VERT, T = 15' HORIZ

D1 PLAN
SCALE: T = 30'

| BENT | DISTANCE BELOW ABUTMENT (APPROX.) |
|--------------|-----------------------------------|
| 0 (ABUTMENT) | 0 |
| 40 | 2.5' |
| 60 | 2.0' |
| 74 | 1.8' |



ISSUED FOR BID
JULY 14, 2021

DRAWING SCALES SHOWN BASED ON 22x34" DRAWING

| <p>INDEX: 4 OF 14</p> <p>Sheet Reference No. S-001</p> | | <p>2185 N. CALIFORNIA BLVD. SUITE 500 WALNUT CREEK, CA 94596</p> <p>moftatt & nichol</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Designed by: AC</td> <td>Date: 6/23/2021</td> <td>Rev. 0</td> </tr> <tr> <td>Dwn by: AC</td> <td>Clkd by: BP</td> <td>M&N Project No.: 9154-01</td> </tr> <tr> <td>Reviewed by: REVR</td> <td>Drawing code:</td> <td></td> </tr> <tr> <td>Submitted by: MOFFATT & NICHOL</td> <td>Drawing Scale: 1:1 (D SHEET)</td> <td></td> </tr> </table> | Designed by: AC | Date: 6/23/2021 | Rev. 0 | Dwn by: AC | Clkd by: BP | M&N Project No.: 9154-01 | Reviewed by: REVR | Drawing code: | | Submitted by: MOFFATT & NICHOL | Drawing Scale: 1:1 (D SHEET) | | <p>CAPITOLA WHARF RESILIENCY AND PUBLIC ACCESS IMPROVEMENT</p> <p>WHARF PLAN & ELEVATION</p> | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Mark</th> <th>Description</th> <th>Date</th> <th>Appr.</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table> | Mark | Description | Date | Appr. | | | | | |
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**CAPITOLA WHARF
RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT**

REPAIR PLAN

| | | |
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| Dwn by: AC | Clkd by: BP | M&N Project No.: 9154-01 |
| Reviewed by: REVR | Drawing code: | |
| Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL | Drawing Scale: Plot scale: 1:1 (D SHEET) | |

2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

moftatt & nichol

REGISTERED PROFESSIONAL
ENGINEER
NO. 50488
STATE OF CALIFORNIA

BRAD PORTER

Sheet
Reference No.
S-002

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NOTES:

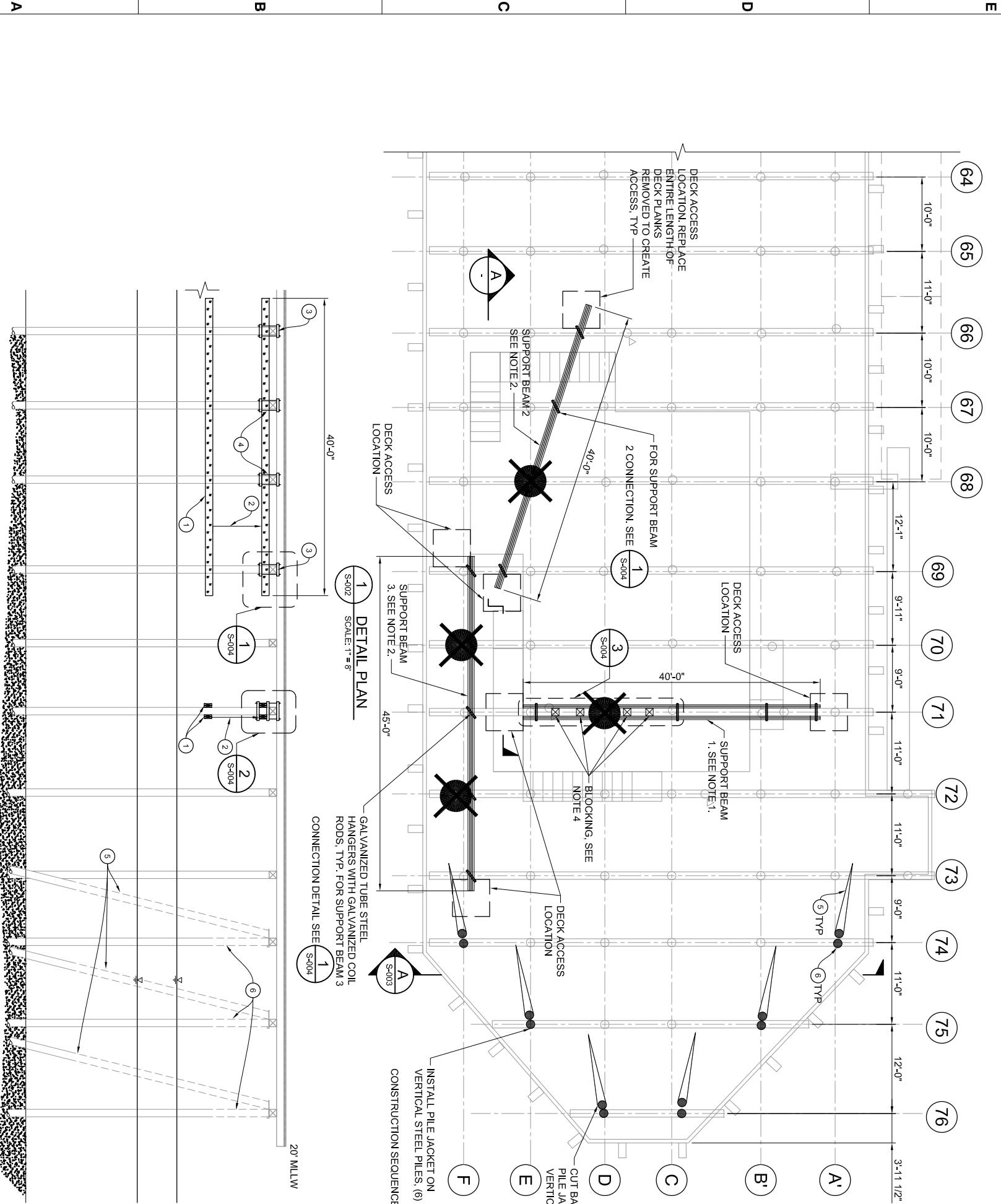
- SUPPORT BEAM 1 SHALL BE COMPOSED OF 4 - 3x12 OR 2 - 6x12.
- SUPPORT BEAM 2 AND 3 SHALL BE A CONTINUOUS 12x12 BEAM OR COMPOSED OF 3x12, 4x12, OR 6x12 MEMBERS SUCH THAT THE COMBINED SIZE OF THE BEAM IS SIMILAR TO A 12x12 BEAM.
- BUTT JOINTS SHALL BE STAGGERED AT 8'-0" MINIMUM.
- BLOCKING SHALL BE A 12x12 MEMBER OR COMPOSED OF 3x12, 4x12, OR 6x12 MEMBERS SUCH THAT THE COMBINED SIZE OF THE BLOCK IS SIMILAR TO A 12x12 BEAM.
- BATTER PILES STUBS TO REMAIN ARE INTENDED TO BE CUT AT DEPTH (8' MILLW) THAT WILL NOT POSE A HAZARD TO ANY BOAT THAT MAY PASS BENEATH WHARF FOOT PRINT AND REMAIN TO BE USED IN FUTURE IF NEEDED.

LEGEND:

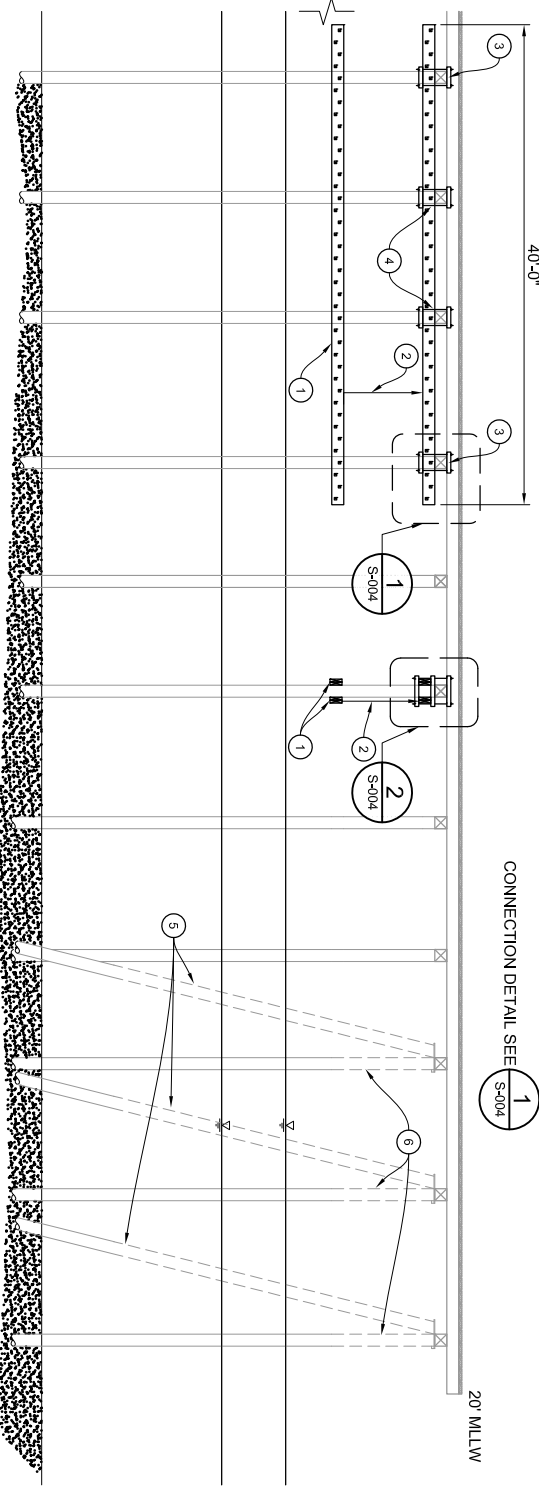
- STEEL VERTICAL PILE
- STEEL BATTER PILE
- ✘ MISSING PILE

KEYNOTES:

- PLACE TIMBER BELOW DECK AND STITCH TOGETHER TO PROVIDE LENGTH.
- RAISE BEAM INTO PLACE FROM ABOVE
- CONNECT TO END CAPS FROM ABOVE
- CONNECT TO CAPS FROM BELOW
- CUT BATTER PILES AT ELEV. 8' MILLW. REMOVE UPPER PORTION (SEE NOTE 5 ABOVE).
- CUT VERTICAL PILES AND INSTALL PILE JACKET. SEE DETAIL 3/S-004.



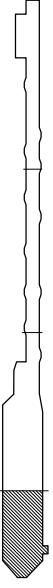
1 DETAIL PLAN
SCALE: 1"=8'



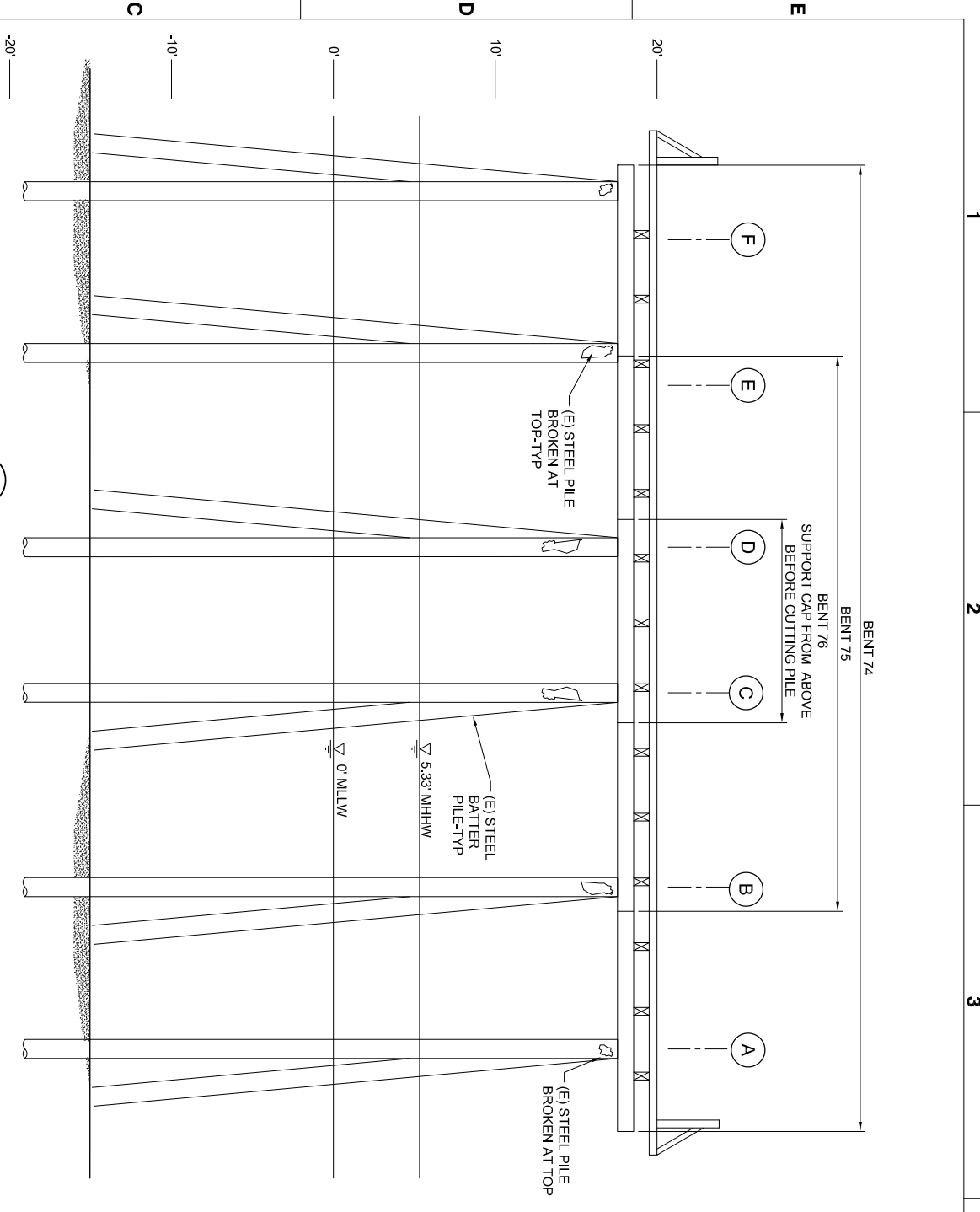
A ELEVATION
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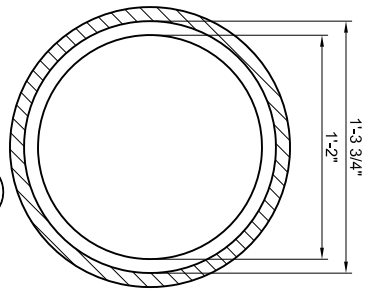
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JULY 14, 2021



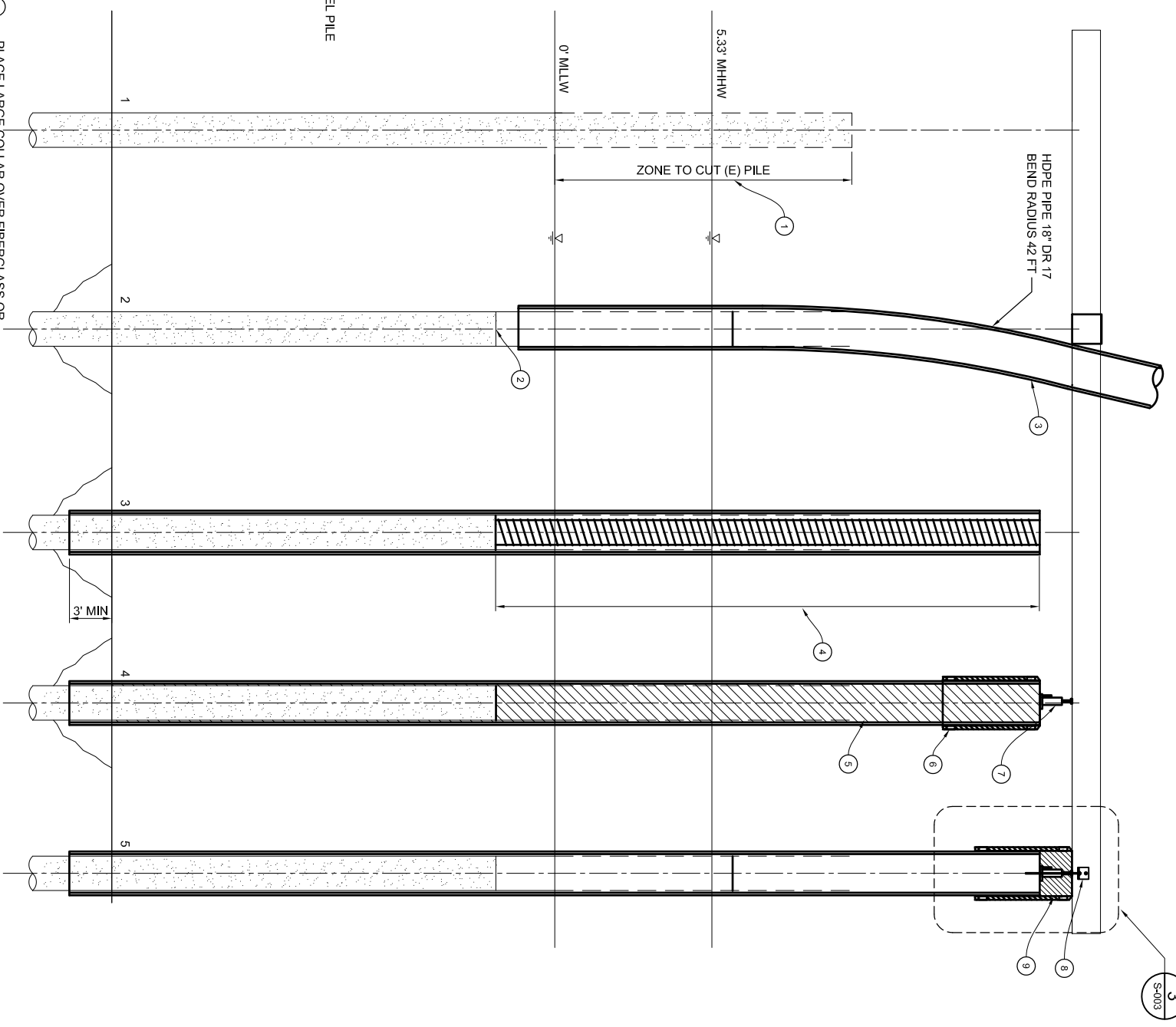
A ELEVATION
SCALE: 1" = 5'



1 DETAIL - HDPE SLEEVE
SCALE: 1" = 1'-0"

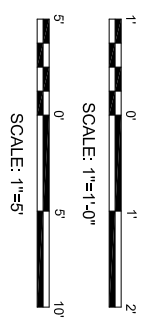
PILE REPAIR SEQUENCE

- 1 CUT (E) PILE AS NEEDED (ELEVATION 0-10 FT)
- 2 REMOVE SAND TO ELEV. -2 FT FROM INSIDE OF STEEL PILE STUB
- 3 JACKET PILE OVER STUB AND JET 3 FT MIN INTO SEA FLOOR SAND. ALT 1: FIBERGLASS WITH VERTICAL SEAM. ALT 2: HDPE PIPE.
- 4 INSTALL REINFORCEMENT
- 5 SEAL BOTTOM AND GROUT JACKETED PILE SOLID.
- 6 PLACE LARGE COLLAR OVER FIBERGLASS OR HDPE PILE.
- 7 PLACE HYDRAULIC JACK AND LIFT CAP.
- 8 ATTACH CAP TO PILE WITH 3/4" THREAD RODS INTO CAP AND COLLAR WITH ANGLE. EACH SIDE. THREADED ROD THROUGH CAP SHALL BE CONTINUOUS THROUGH CAP ENGAGING EA ANGLE.
- 9 SLIDE LARGE COLLAR OVER JACK AND GROUT SOLID.



2 DETAIL SEQUENCE
SCALE: NTS

3 DETAIL - PILE CAP CONNECTION
SCALE: 1" = 1'-0"



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JULY 14, 2021

DRAWING SCALES SHOWN BASED ON 22"x34" DRAWING

REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
No. 10488
BRAD PORTER
M&N CIVIL

Sheet Reference No. **S-003**
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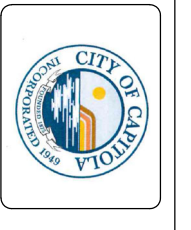
moftatt & nichol
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SUITE 500
WALNUT CREEK, CA 94596

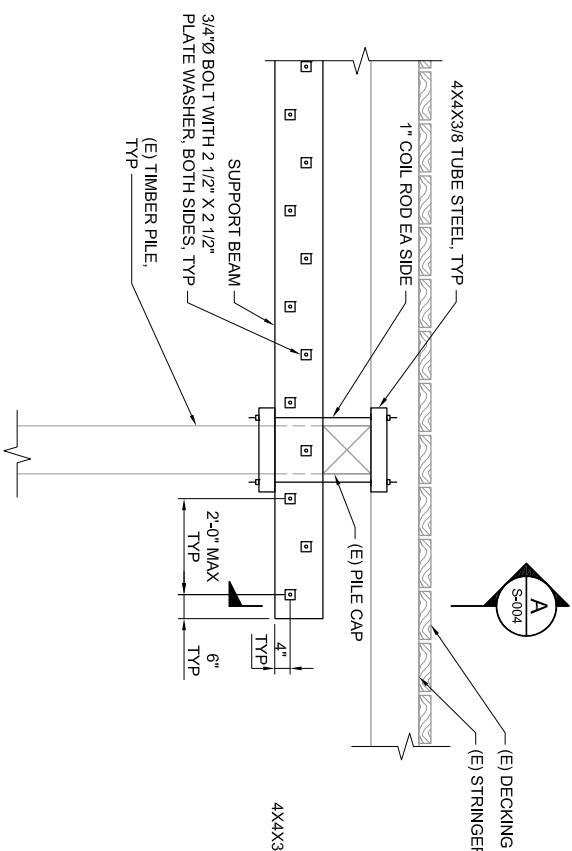
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**CAPITOLA WHARF
RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT**

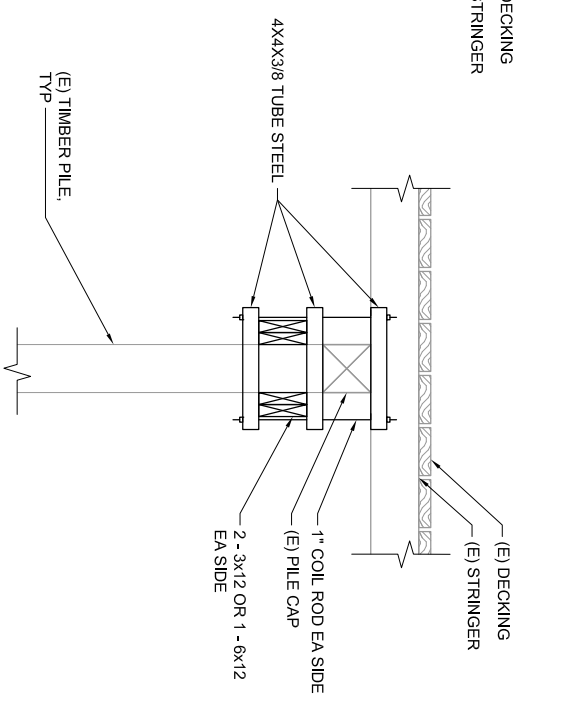
**STEEL PILE REPAIR
DETAILS**

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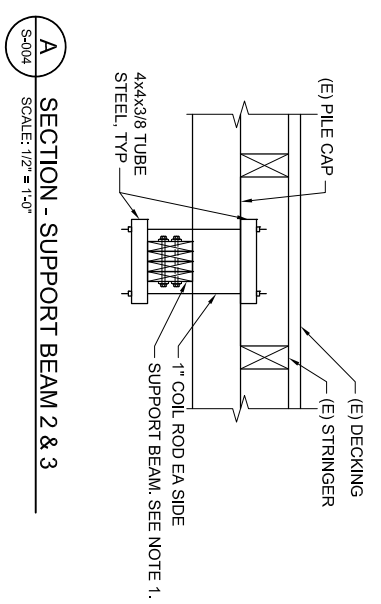




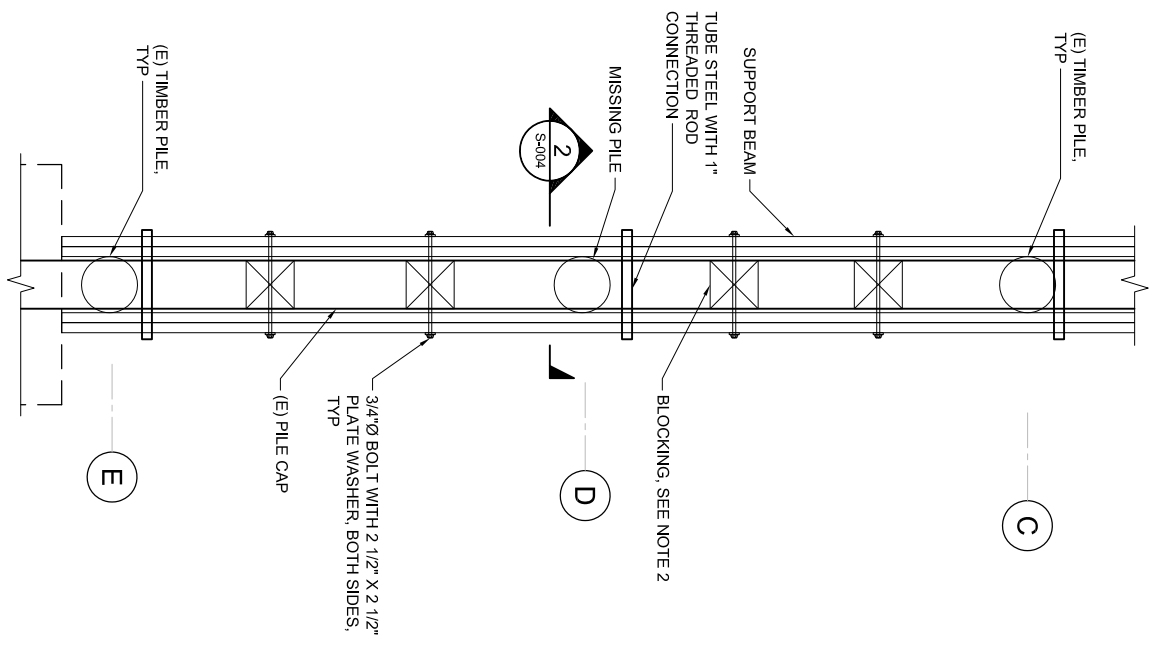
1 DETAIL - SUPPORT BEAM 2 AND 3 CONNECTION
S-002 SCALE: 1/2" = 1'-0"



2 DETAIL - SUPPORT BEAM 1 CONNECTION
S-002 SCALE: 1/2" = 1'-0"

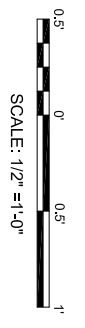


A SECTION - SUPPORT BEAM 2 & 3
S-004 SCALE: 1/2" = 1'-0"

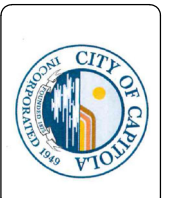


3 PLAN - SUPPORT BEAM BLOCKING
S-002 SCALE: 1/2" = 1'-0"

- NOTES:**
- SUPPORT BEAM 2 AND 3 SHALL BE A CONTINUOUS 12x12 BEAM OR COMPOSED OF 3x12, 4x12, OR 6x12 MEMBERS SUCH THAT THE COMBINED SIZE OF THE BEAM IS SIMILAR TO A 12x12 BEAM.
 - BLOCKING SHALL BE A 12x12 MEMBER OR COMPOSED OF 3x12, 4x12, OR 6x12 MEMBERS SUCH THAT THE COMBINED SIZE OF THE BLOCK IS SIMILAR TO A 12x12 BEAM.



ISSUED FOR BID
JULY 14, 2021



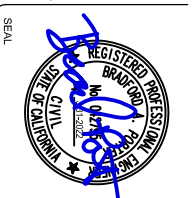
**CAPITOLA WHARF
RESILIENCY AND PUBLIC ACCESS
IMPROVEMENT**

TIMBER REPAIR DETAILS

| | | |
|---|---|--------------------------|
| Designed by: AC | Date: 6/23/2021 | Rev. 0 - |
| Dwn by: AC | Clkd by: BP | M&N Project No.: 9154-01 |
| Reviewed by: REVR | Drawing code: | |
| Submitted by: SUBMITTER'S NAME MOFFATT & NICHOL | Drawing Scale: Plot scale: 1:1 (D SHEET) | |

2185 N. CALIFORNIA BLVD.
SUITE 500
WALNUT CREEK, CA 94596

moftatt & nichol



Sheet
Reference No.
S-004

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