WATER EMERGENCY TRANSPORTATION AUTHORITY

WETA

ALAMEDA HARBOR BAY TERMINAL
ALAMEDA, CA

OWNER
WATER EMERGENCY TRANSIT AUTHORITY
PIER 9 SUITE 111
THE EMBARCADERO
SAN FRANCISCO, CA 94111

CONTRACTOR
MANSON CONSTRUCTION COMPANY
200 CUTTING BLVD.
RICHMOND, CA 94804
P: (510) 232-6319

STRUCTURAL ENGINEER - MARINE
LIFTECH CONSULTANTS INC.
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OAKLAND, CA 94612-3593
P: (510) 832-5606
EMAIL: LIFTECH@LIFTECH.NET

STRUCTURAL ENGINEER - RAMPS
KPFF CONSULTING ENGINEER
111 S.W. FIFTH AVENUE, SUITE 2500
PORTLAND, OR 97204
P: (503) 227-3251

MECHANICAL, ELECTRICAL, AND PLUMBING
EDESIGNC, INC
582 MARKET STREET, #400
SAN FRANCISCO, CA 94104
P: (415) 963-4303

ARCHITECTURE AND ADA OVERSIGHT
FMG ARCHITECTS
330 15TH STREET
OAKLAND, CA 94612
P: (510) 465-8700

GEOTECHNICAL ENGINEER
LANGAN TREADWELL ROLLO
501 14TH STREET, 3RD FLOOR
OAKLAND, CA 94612
P: (510) 874-7000

CORROSION ENGINEER
V&A CONSULTING ENGINEERS. INC
155 GRAND AVENUE, SUITE 700
OAKLAND, CA 94612
P: (510) 903-6600

VICINITY MAP

PROJECT LOCATION

DRAWING INDEX

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REVISIONS					
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CONSULTANT
Liftech
LIFTECH CONSULTANTS INC.
344-20th Street, Suite 360,
Oakland, Ca 94610 (510)832-5606 P# 2045

SEAL/SIGNATURE
REGISTERED PROFESSIONAL ENGINEER CATHERINE A. MORRIS No. S3958 Exp. 12/31/2015 STRUCTURAL STATE OF CALIFORNIA
FOR LIFTECH CONSULTANTS INC
SIGNATURE DATE:

SEAL/SIGNATURE

DESIGNED BY: CAM
DRAWN BY: AH
CHECKED BY: LMO

PROJECT: ALAMEDA HARBOR BAY TERMINAL ALAMEDA, CA
SHEET: TITLE SHEET AND DRAWING INDEX

DATE: ----
SHEET OF: G0.1 #
DRAWING NO.: G0.1
JOB NO.: 2045

\\moe\2045\2045\Dwg\Current\Harbor Bay\G0.1 TITLE SHEET AND DRAWING INDEX.dwg 8/4/2014 12:04 PM ALVIN HOFFPAUIR

DESIGN CRITERIA – HARBOR BAY FERRY TERMINAL

SPECIFICATIONS

These drawings and the project specifications, and the following:

AA	Aluminum Association, *Aluminum Design Manual*, 2010
ABS	American Bureau of Shipping and Affiliated Companies, *Rules for Building and Classing Steel Vessels*, 2011.
ABSW	American Bureau of Shipping and Affiliated Companies, *Guide for NonDestructive Inspection of Hull Welds 2002*, Updated 2010.
ACI	American Concrete Institute, Building Code Requirements for Structural Concrete (ACI 318-11) and Commentary (ACI 318R-11)
ADA	American Disability Act, 2010 Standard and Specifications
ASCE	American Society of Civil Engineers, ASCE/SEI Standard 7-10, *Minimum Design Loads for Buildings and Other Structures*. Reston, VA: American Society of Civil Engineers, 2010.
AWS	American Welding Society, AWS D1.1/D1.1M:2010, Structural Welding Code – Steel, 22nd Edition. Miami, FL: American Welding Society, 2010.
AISC	American Institute of Steel Construction, Inc., *Specification for Structural Steel Buildings*. Chicago, IL: American Institute of Steel Construction, Inc., 2005.
CBC	International Code Council and the California Building Standards Commission, *2013 California Building Code, California Code of Regulations,* Title 24, Part 2, Volume 1 and 2. CBRC, 2013.

PROJECT REFERENCES

1. San Francisco Bay Area Water Emergency Transportation Authority Alameda Harbor Bay Ferry Terminal Refurbishment, Volume 3, Technical Specifications, November 15, 2013.

REFERENCES (INFORMATION ONLY – NOT CRITERIA)

PIANC	Working Group 33 of the Maritime Navigation Commission, Guidelines for the Design of Fender Systems: 2002. Brussels, Belgium: International Navigation Association, 2002.

VESSEL DATA

Parameter	Design Vessel Characteristics	Vessel 1	Vessel 2	Vessel 3
Vessel		WETA & Bay Link	Peralta & Encinal	Bay Breeze
Length Overall, L	80-140’	118’	115’-3”	97’-11”
Beam	*	28’-8”	32’-9”	29’-3”
Maximum Displac ement	406 kips	260 kips	*	*
Draft	*	Hull 4’-6” Prop 5’-0”	*	*
Fender Strike Location Above Water	10”-108”	Loaded 7’-4” Unloaded 7’-10”	Loaded 3’-7” Unloaded 4’-7”	Loaded 6’-9” Unloaded 7’-6”
Maximum Hull Pressure	*	5.5 psi (800 psf)	*	*

Notes:
*Information not provided

DESIGN LIFE

25 Years

BASIC LOADS AND DESIGN REQUIREMENTS

Load Definitions – See Individual Components for Details

D Dead Load – Weight of Fixed Structure and Components

L Live Loads
- LU Uniform Loads From People– 100 psf on ramps within guardrails
  Uniform Lateral Load of 50 PLF horizontally on guardrails along with 100 plf applied vertically downward
- LC Concentrated Loads – 400 lbs within guardrails
  Concentrated Load of 200 lbs on any point/direction on guardrails
  Concentrated loads not combined with uniform loads.
- LB Vessel Berthing
- LM Mooring Loads

E Environment Loads Excluding Wind
Note: Environmental loads are for Pier 9 in San Francisco, and are conservative for Habor Bay Terminal in Alameda. Less severe loads were not investigated because the impact to the structure would be small.
- EW Waves
- EC Current - Negligible

W Wind Loads per ASCE

$q_z G_f$ = $0.00256\ K_z\ K_{zt}\ K_d\ V^2\ I\ G_f$ (psf)

Basic wind speed, V	85 mph, 3-s gust, at 33 ft
Importance factor, I	1.15
Topographic factor, K_{zt}	1.0
Exposure category	D
Velocity pressure coef., K_z	$K_z = 2.01\ (z/700)^{0.17}$
Structure height, z	in feet
Gust effect factor, G_f	1.0
Directionality factor, K_d	0.85

S Earthquake Loads

Fenders

Typical and Corner
- Minimum energy of 8.7 k-ft
- Reaction of 40.5 kips
- Maritime MDD 350 or approved equal

D Dead Loads

LB Vessel Berthing Design Condition
- Speed: 1.5 fps
- Incidence angle: 10 degrees
- Mass: Include added mass of water

Ramp

E Approximate accelerations at ramp deck:
- 0.3 g Transverse to float
- 0.25 g Longitudinal to float
- 0.4 g Vertical

S Does not control

W 20 psf on profile

Maximum deflection shall not exceed $L_{span}/360$

LOAD COMBINATIONS – ALLOWABLE STRESS DESIGN

The design is in accordance with the AISC Allowable Stress Design (ASD) design provisions which results in a design consistent with a design made in accordance with the AISC Load Resistance and Factored Design (LRFD) provisions. Refer to the AISC specification.

Combination Name		D+L	D+L+W	D+L+S	D+L+E+W
D	Dead	1.0	1.0	1.0	1.0
L	Live	1.0	1.0	1.0	1.0
E	Environmental				1.0
W	Wind		1.0		1.0
S	Earthquake			0.7	

SAFETY DESIGN REQUIREMENTS

Safety equipment is shown on the drawings in accordance with the Owner’s bid drawings. The Owner shall verify the adequacy of the safety design including, but not limited to, safety ladders, life rings, warning stripes, fire extinguishers, spill response and safety equipment, and navigation lights.

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FOR LIFTECH CONSULTANTS INC
SIGNATURE DATE:

SEAL/SIGNATURE

DESIGNED BY: CAM
DRAWN BY: LMO
CHECKED BY: LMO

PROJECT: ALAMEDA HARBOR BAY TERMINAL ALAMEDA, CA
SHEET: GENERAL NOTES - 1

DATE: ----
SHEET OF: G1.1 #
DRAWING NO.: G1.1
JOB NO.: 2045

\\moe\2045\2045\Dwg\Current\Harbor Bay\G1.1 GENERAL NOTES - 1.dwg 8/4/2014 12:45 PM ALVIN HOFFPAUIR

PROJECT NOTES

Contractor: Manson Construction Company
Engineer: Liftech Consultants Inc.
Owner: Water Emergency Transportation Authority

GENERAL NOTES

GENERAL

The Project Specifications, which are a separate document, are an integral part of the construction documents. The Project Specifications take precedence over the General Notes. See structural drawings for other requirements. Structural drawings take precedence over all.

All work shall conform to all applicable codes and ordinances including OSHA.

Contractor shall visit the site and verify that all existing conditions, elevations, dimensions, and construction are consistent with these drawings and notify the Engineer and Owner of any discrepancies before proceeding with the work.

All codes and specifications are latest edition unless otherwise noted.

SPECIAL INSPECTION

Special inspection shall be provided in accordance with the requirements in IBC, Chapter 17, and shall include:

Anchor grouting in concrete
Field welding

The Owner will retain the Special Inspector for the above inspections. Inspection reports shall be submitted to the Engineer and Owner.

STRUCTURAL OBSERVATION

Contractor shall notify the Owner and Engineer at least one week prior to the following construction stages so that the Engineer may perform a visual observation of the structural system for general conformance to the approved construction documents:

Installation of new components

MEANS, METHODS, AND JOBSITE SAFETY

At all times, the Contractor shall be s olely and completely responsible for means, methods, sequences, and procedures of work, and conditions of the jobsite including safety of persons and property, and for all necessary independent engineering review of these conditions. The Engineer's jobsite review is not intended to include review of the adequacy of the Contractor's safety measures.

TIMBER

All members shall be Douglas Fir Larch, No. 1, Grading WCLIB, per NDS 2005.

STRUCTURAL STEEL

Workmanship

Work shall conform to the requirements of the ANSI/AISC 360 "Specification for Structural Steel Buildings", March 9, 2005, including current supplements and ANSI/AWS D1.1, "Structural Welding Code" including provisions applicable to cyclically loaded structures

Material

Structural steel shall conform to the following unless otherwise noted:

Plate and Bar	ASTM A572 Grade 50
Shapes	ASTM A572 Grade 50 or ASTM A992
Pipes	ASTM A53
Rectangular HSS	ASTM A500 Grade B
Angles & Channels	ASTM A572 Grade 50
Bolts	ASTM A325 Type 3
Nuts	Heavy hex style grade DH3 or C3. Use ASTM F 436 flat head washer for bolts and threaded rods.
Anchor Bolts	ASTM F1554 Grade 36
Safety Chains	See Topper drawings

Edges

Steel plate edges shall be rounded to ¼ inch, unless otherwise noted. Break all sharp edges.

Galvanizing & Coatings

See Coatings specification section 09810.

Non-skid Coating

Non- Skid steel coating shall be as noted in the Coatings specification section 09810.

WELDING

Welders and welding operators shall have current AWS certificates for the materials and processes being used. The Contractor shall maintain current files of these certificates and shall provide them to the Owner upon request.

Weld procedures shall be qualified in accordance with AWS D1.1 or be acceptable in accordance with ABS. The Contractor shall maintain current files of weld procedure specifications and test results. The Contractor shall review planned weld procedures, weld test results, or both, and verify they are acceptable prior to welding.

Electrodes shall be in accordance with Table 3.1 of AWS D1.1 except E60xx rods shall not be used.

Unless otherwise noted on the drawings, fillet welds that occur on opposite sides of a common plane shall be interrupted at the corner common to both welds. See Figure 1.

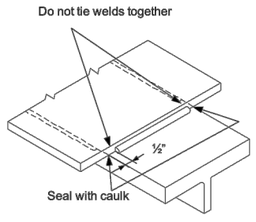

Figure 1 Fillet Welds on Opposite Sides of a Common Plane

All welded joints exposed to weather shall be seal welded except fillet welds occurring on opposite sides of a common plane as shown in Figure 1. Those joints shall be sealed with caulking unless otherwise noted.

Weld preheat and interpass temperatures shall comply with Table 4.4 of AWS D1.1.

The removal of weld or base metal shall be done in accordance with AWS D1.1, Section 5.

Weld Inspection

All welds shall be visually inspected (VT). Additional nondestructive testing (NDT) shall be performed as indicated on the drawings. The Owner may perform NDT other than visual even though this inspection is not indicated on the drawings. It shall be the Contractor's responsibility to ensure that all welds meet the acceptance requirements of AWS D1.1, Section 6, "Inspection" or ABS.

Weld inspectors performing non-visual NDT shall be certified in accordance with the current edition of the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A. Inspectors shall be an NDT Level II inspector, or an NDT Level I inspector working under the supervision of an NDT Level II inspector.

The Contractor shall allow unrestricted access for inspection by the Owner or his representative.

Bolts

All bolted steel to steel connections shall have high strength bolting conforming to ASTM A325 SC unless otherwise noted and shall be tightened by using "turn-of-the-nut" method.

Drain Holes

Drain holes, 0.75" diameter or larger, shall be provided at all water traps.

Bent Plates

Bent plates shall have bend lines perpendicular to the direction of rolling. The plate temperature shall be at least 70° F at the time of bending. No sharp indentations, dents, or cracks will be allowed. The plate may be inspected by UT Methods.

REINFORCED CONCRETE

Workmanship

Concrete work shall conform to "Standard Specifications for Structural Concrete for Buildings," ACI 301-05 and "Building Code Requirements for Structural Concrete (ACI 318-08) and Commentary."

Material

Reinforced concrete shall conform to the following unless otherwise noted:

Reinforcing steel	ASTM A615 or A706, Grade 60
Wire for Spiral Reinforcing	ASTM A82
Concrete	Minimum F'c = 4 ksi at 28 days

Concrete cover exposed to earth = 3 inch.

Construction joints other than those shown on the drawings may be provided by the contractor subject to written approval by the Engineer.

Exposed corners shall be chamfered ¾ inch unless noted otherwise.

Grout

Grouts shall be as follow or approved equals:

Embedded anchor bolts	Hilti RE500

Installation shall be in accordance with the manufacturer's recommendations.

OSHA Requirements

All work under this contract shall conform to OSHA requirements.

STRUCTURAL ALUMINUM

See Topper drawings.

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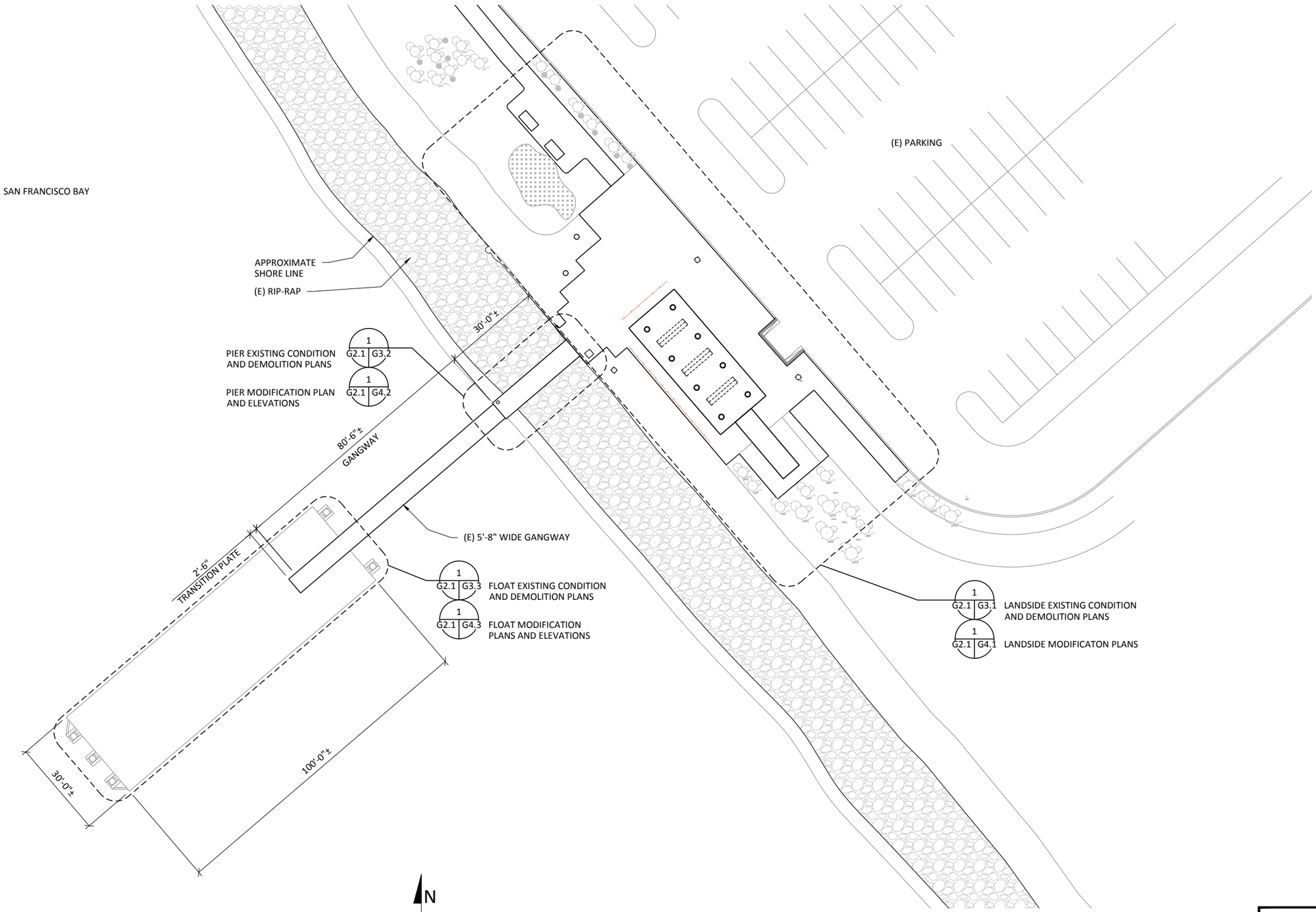
FOR LIFTECH CONSULTANTS INC
SIGNATURE DATE

SEAL/SIGNATURE

DESIGNED BY: CAM
DRAWN BY: AH
CHECKED BY: LMO

PROJECT: ALAMEDA HARBOR BAY TERMINAL ALAMEDA, CA
SHEET: GENERAL NOTES - 2

DATE: ----
SHEET OF: G1.2 #
DRAWING NO.: G1.2
JOB NO.: 2045



SITE PLAN

1/16" = 1'-0"

1 / -

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PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

SHEET
SITE PLAN

DATE ----
SHEET OF G2.1 #
DRAWING NO. G2.1
JOB NO. 2045

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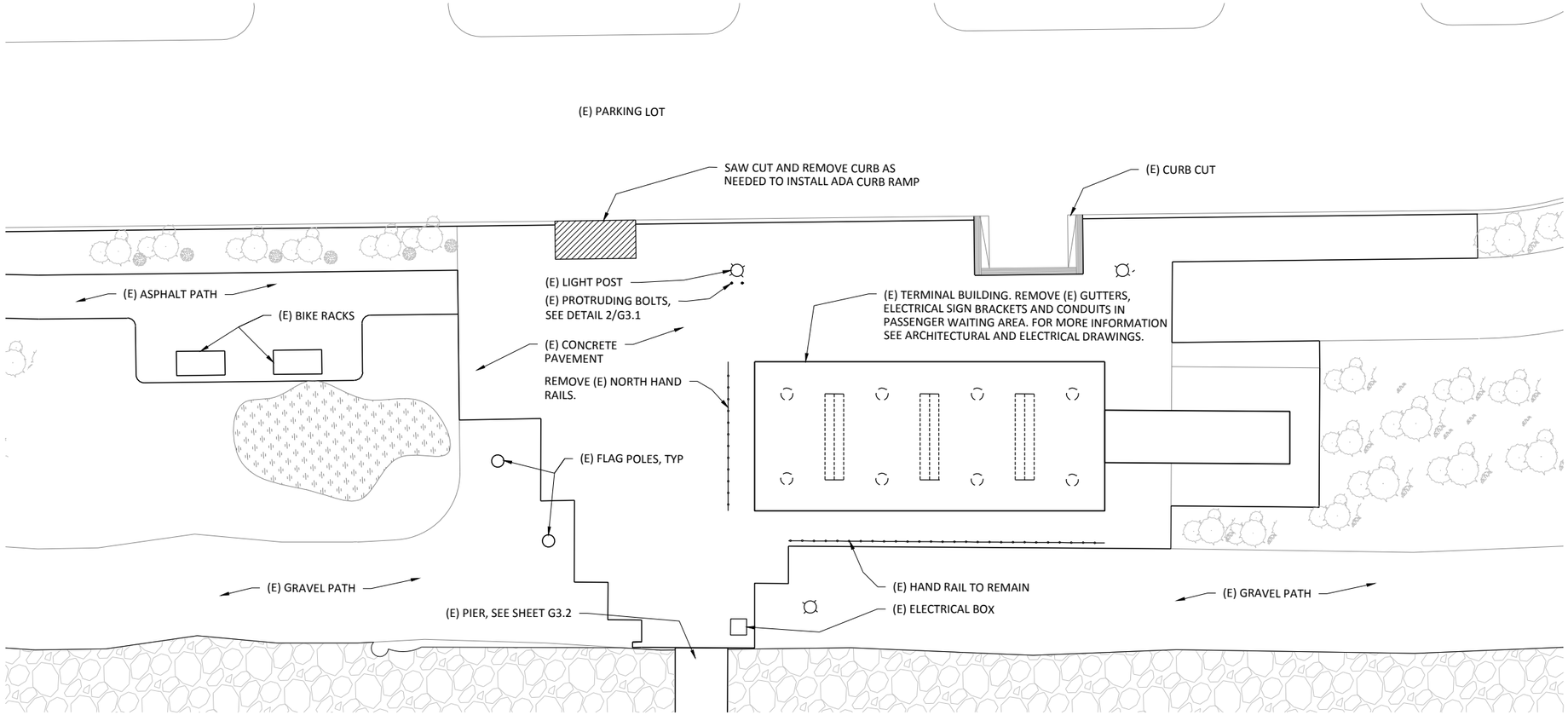

NOTE:
FOR MODIFICATIONS SEE SHEET G4.1.

LANDSIDE EXISTING CONDITION AND DEMOLITION PLAN

1/8" = 1'-0"

1 G2.1 | G3.1

DETAIL AT PROTRUDING BOLTS

NOT TO SCALE

2 -

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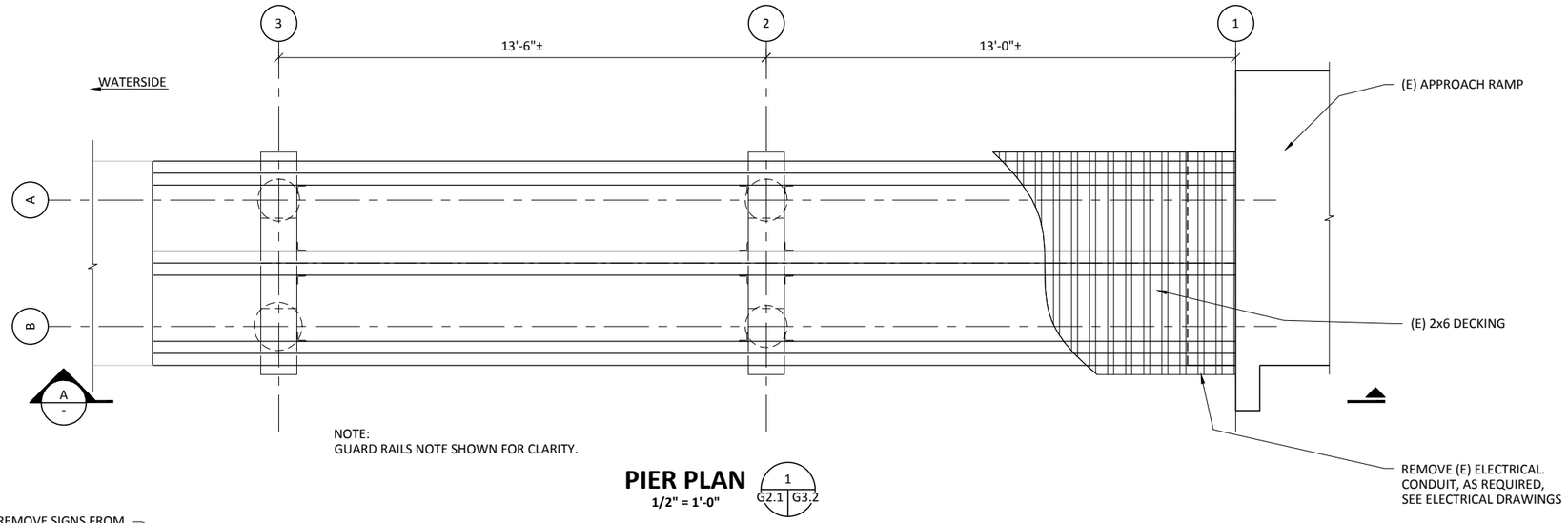
PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

SHEET
LANDSIDE EXISTING CONDITION AND DEMOLITION PLANS

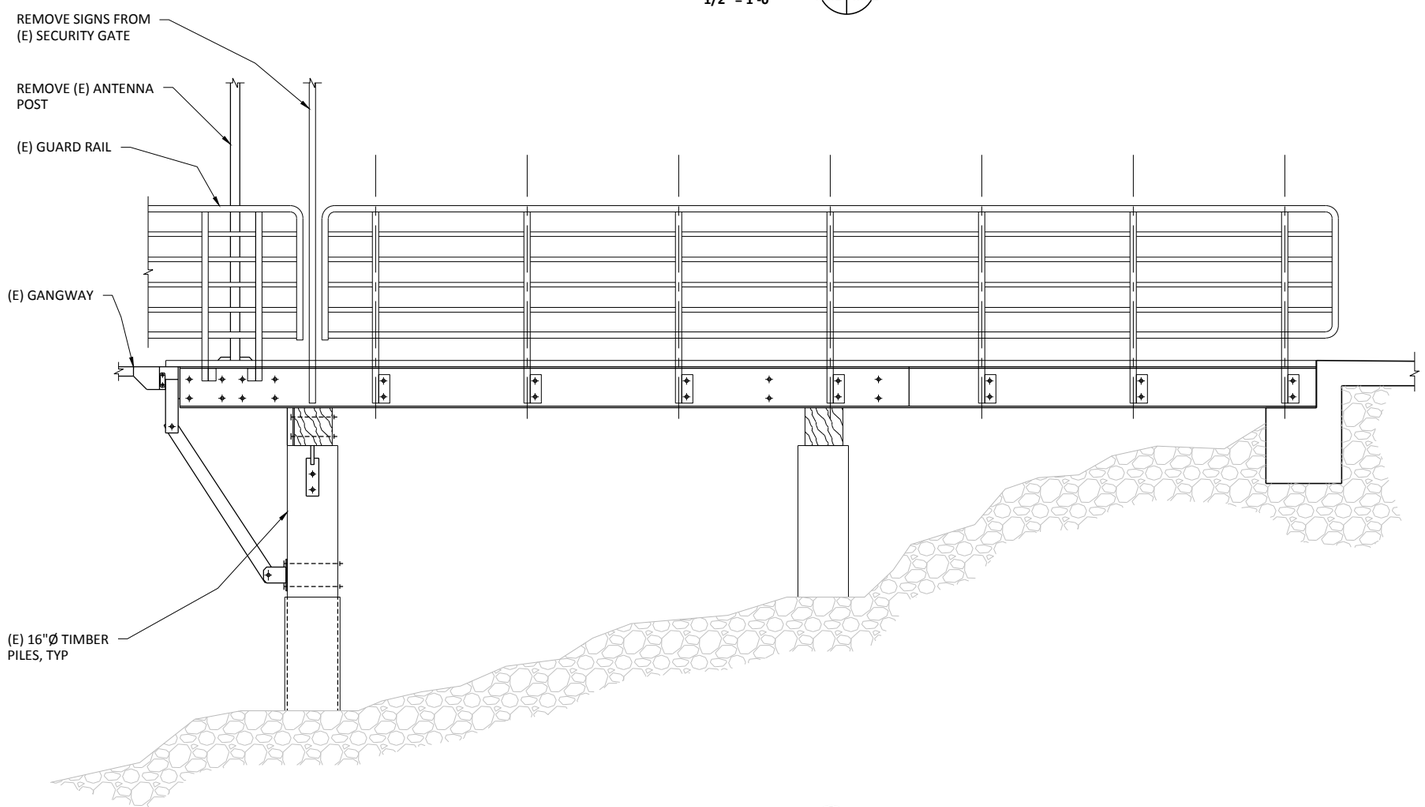
DATE ----
SHEET G3.1 OF #
DRAWING NO. G3.1
JOB NO. 2045



PIER PLAN

1/2" = 1'-0"

1
G2.1 | G3.2



SECTION

1/2" = 1'-0"

A
-

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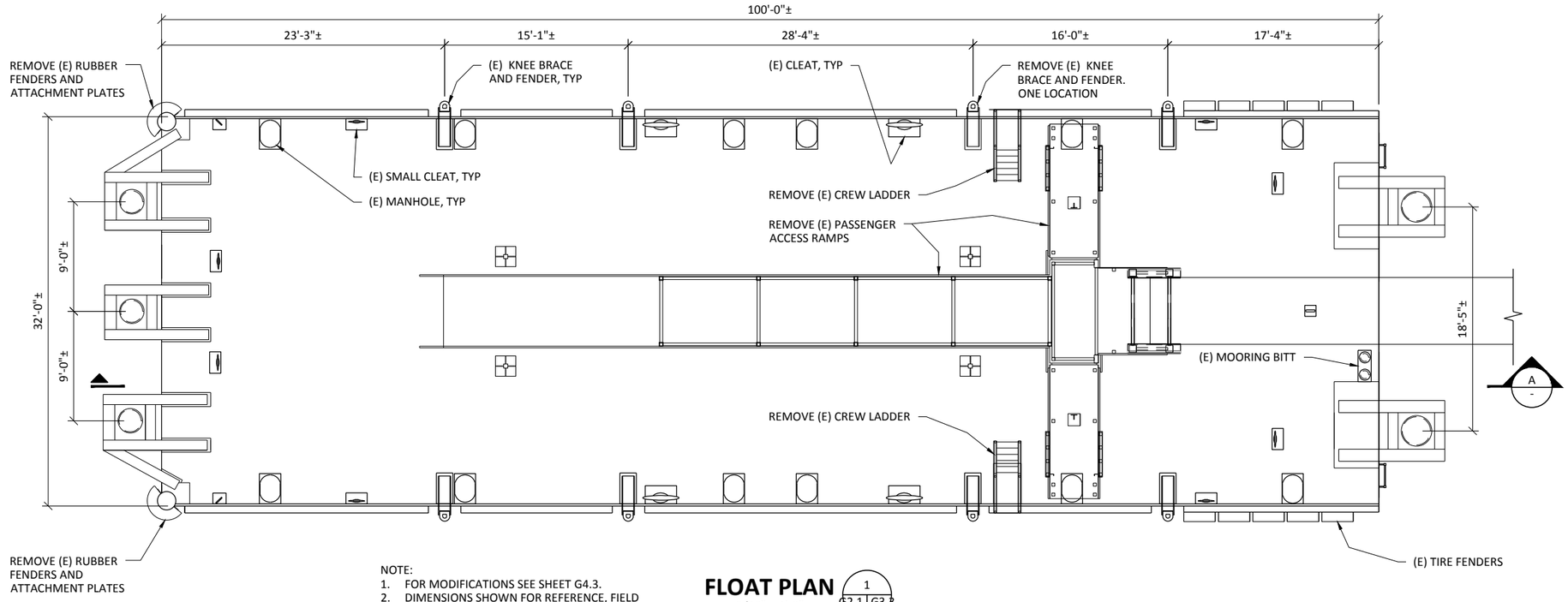
PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

SHEET
PIER EXISTING CONDITION AND DEMOLITION PLANS

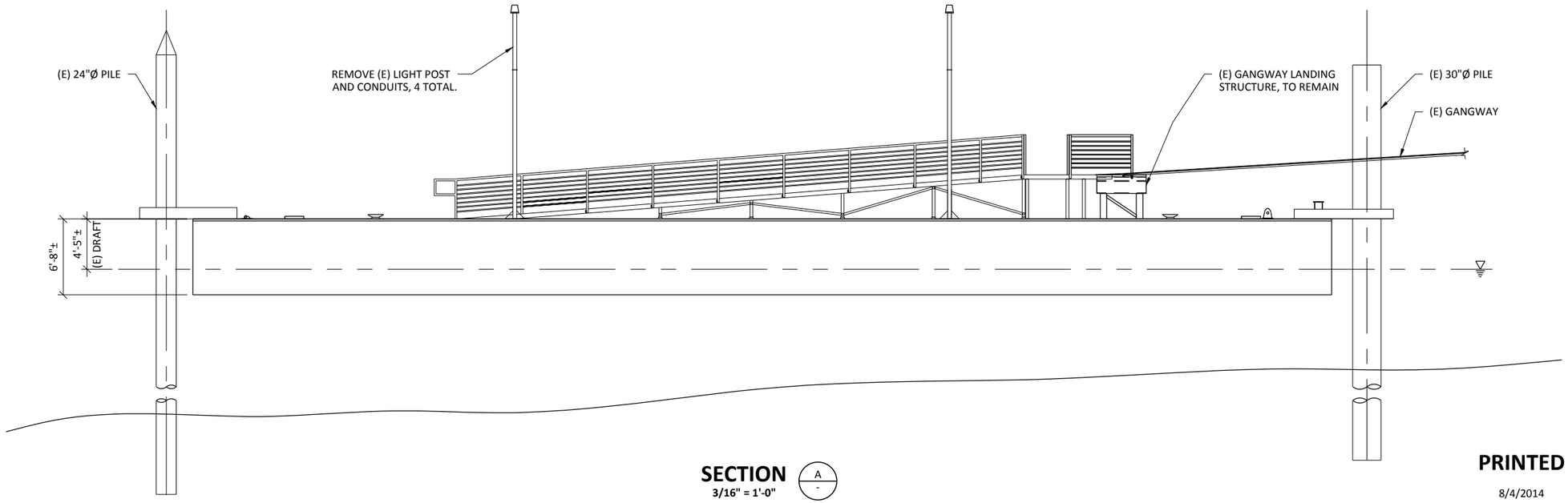
DATE ----
SHEET G3.2 OF #
DRAWING NO. G3.2
JOB NO. 2045

\\moe\2045\2045\Dwg\Current\Harbor Bay\G3.2 PIER EXISTING CONDITION AND DEMOLITION PLANS.dwg 8/4/2014 12:05 PM ALVIN HOFFPAUIR



NOTE:
1. FOR MODIFICATIONS SEE SHEET G4.3.
2. DIMENSIONS SHOWN FOR REFERENCE, FIELD VERIFY DIMENSIONS CRITICAL FOR CONSTRUCTION.

FLOAT PLAN (1 / G2.1 | G3.3)
3/16" = 1'-0"



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PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

SHEET
FLOAT EXISTING CONDITION AND DEMOLITION PLANS

DATE ----
SHEET G3.3 OF #
DRAWING NO. G3.3
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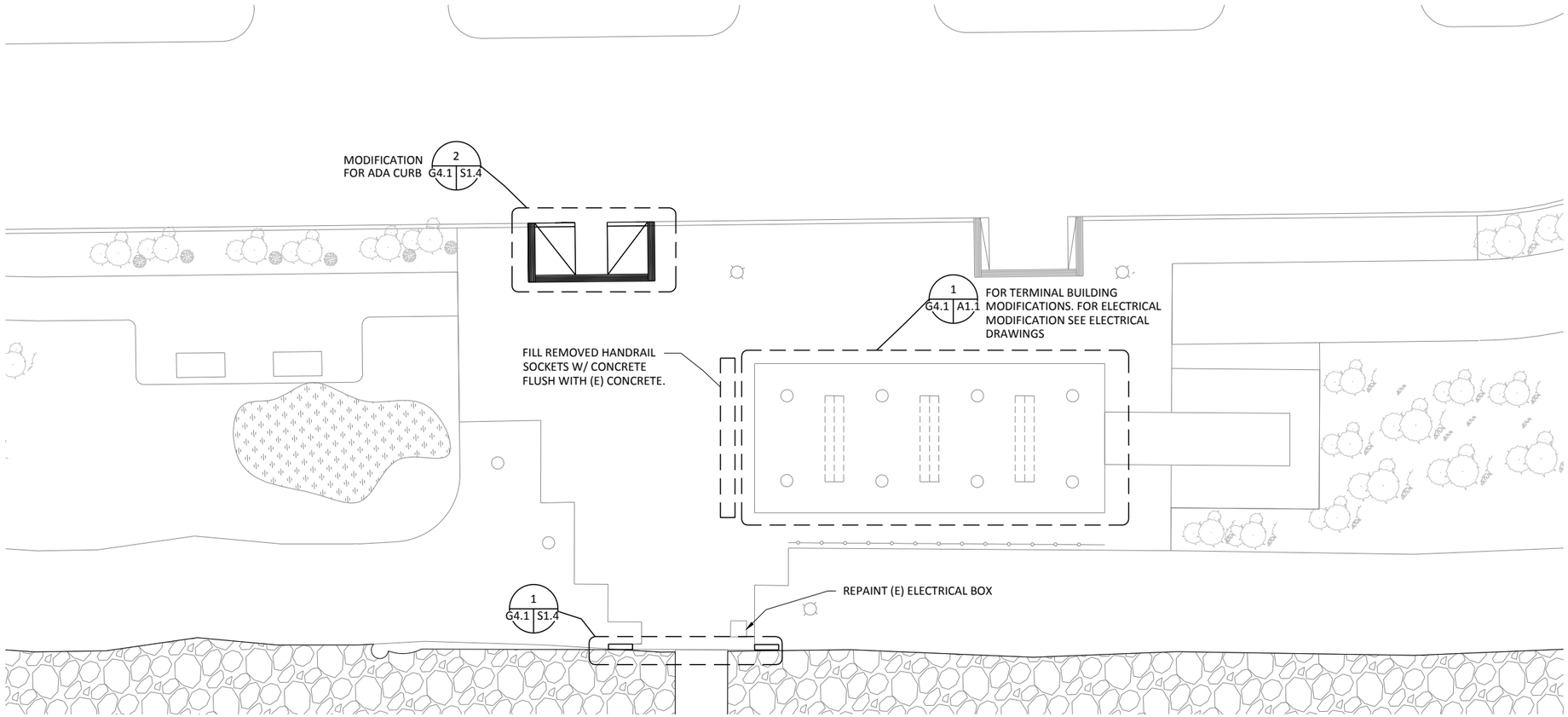

LANDSIDE MODIFICATION PLAN

1/8" = 1'-0"

1
G2.1 G4.1

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LIFTECH CONSULTANTS INC.
344-20th Street, Suite 360,
Oakland, Ca 94610 (510)832-5606 P# 2045

SEAL/SIGNATURE
REGISTERED PROFESSIONAL ENGINEER CATHERINE A. MORRISETT No. S3958 Exp. 12/31/2015 STRUCTURAL STATE OF CALIFORNIA
FOR LIFTECH CONSULTANTS INC
SIGNATURE DATE:

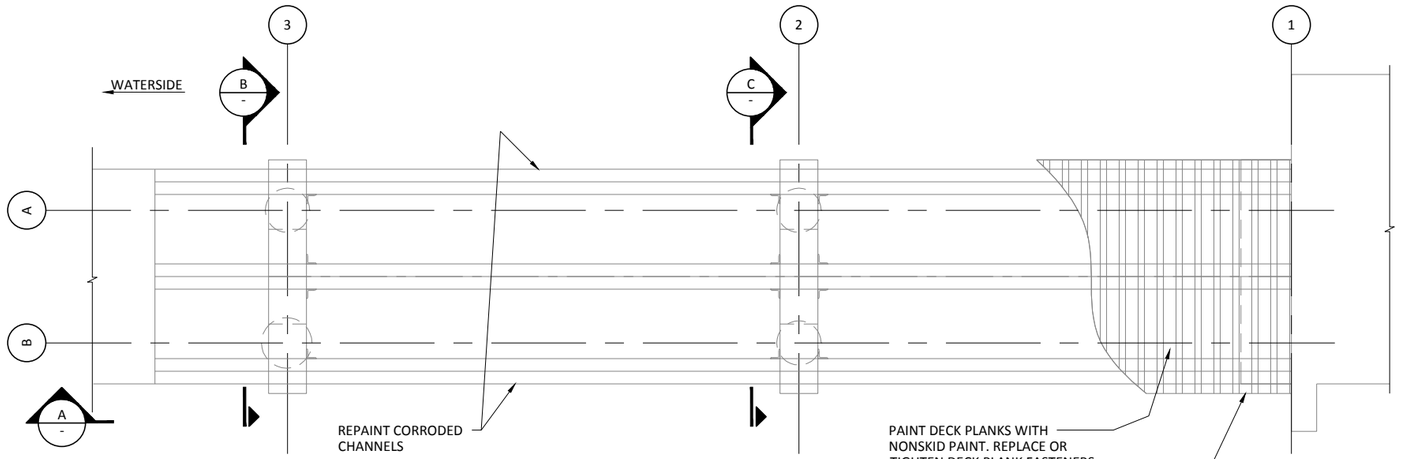
SEAL/SIGNATURE

DESIGNED BY: CAM
DRAWN BY: AH
CHECKED BY: LMO

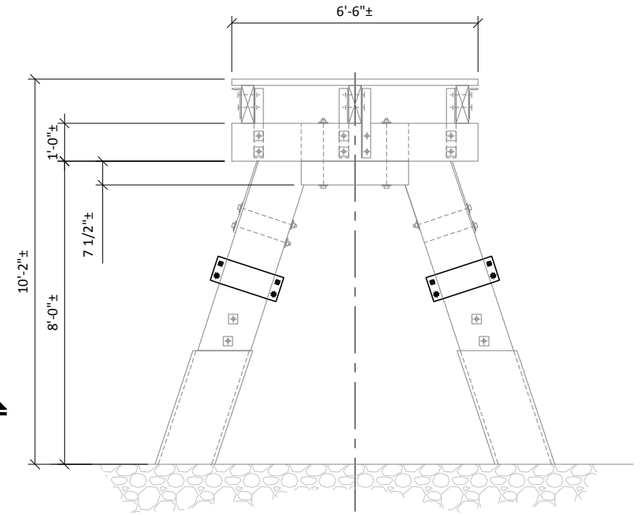
PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

SHEET
LANDSIDE MODIFICATON PLANS

DATE ----
SHEET G4.1 OF #
DRAWING NO. G4.1
JOB NO. 2045

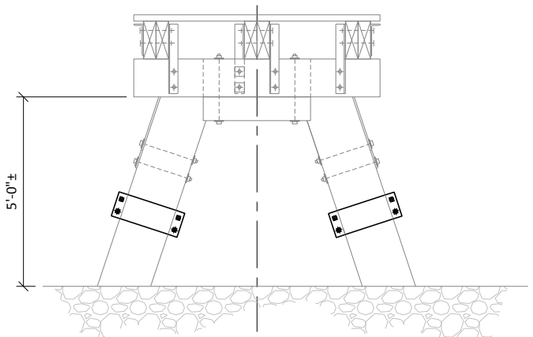


PIER PLAN 1 G2.1 G4.2
1/2" = 1'-0"



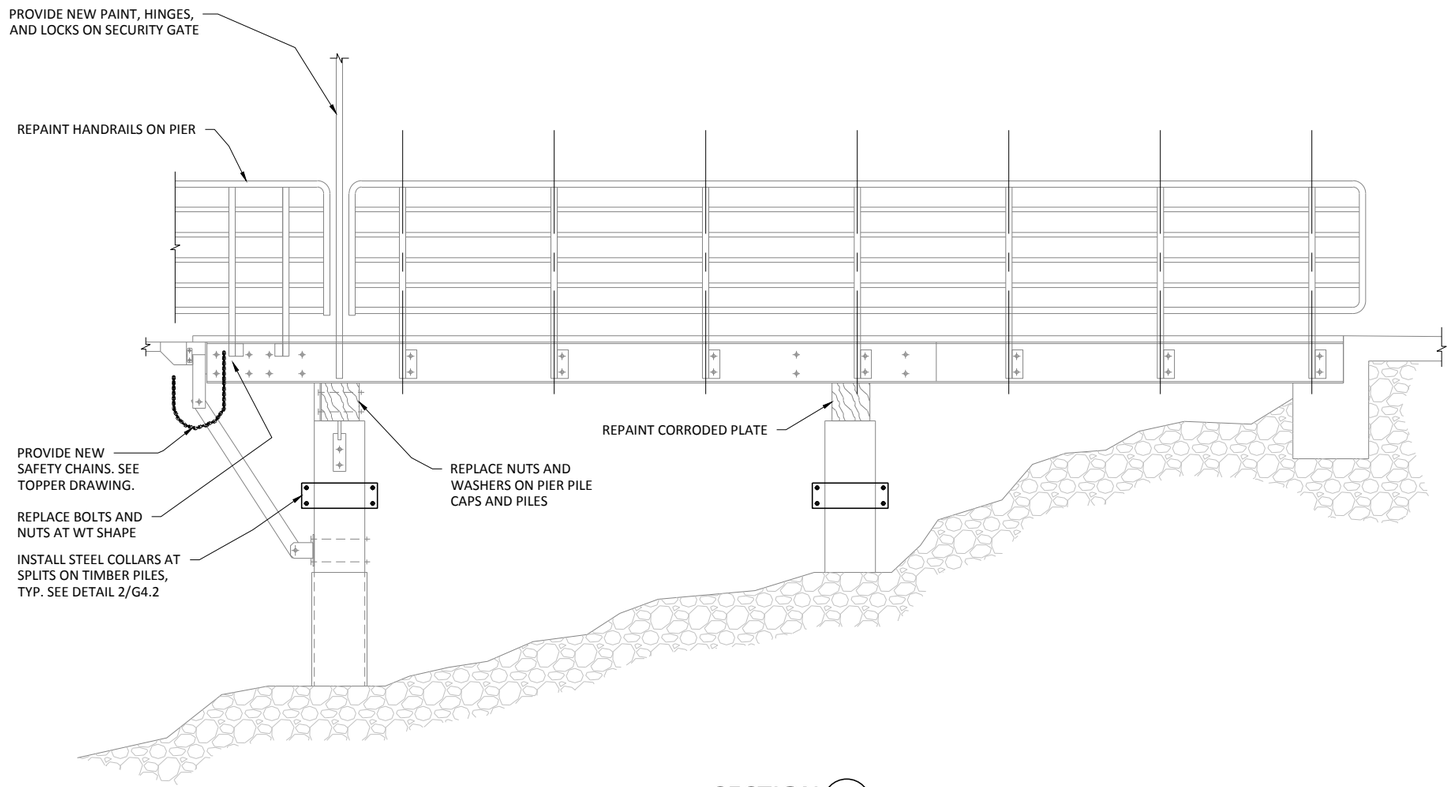
NOTE:
IF CRACK OR SPLIT EXTENDS MORE
THEN 6' DOWN FROM CAP, ADD
SECOND COLLAR.

SECTION B -
1/2" = 1'-0"

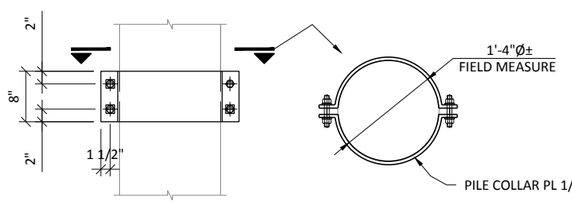


NOTE:
FOR INFORMATION NOT SHOWN
SEE SECTION B/G4.2

SECTION C -
1/2" = 1'-0"



SECTION A -
1/2" = 1'-0"



DETAIL 2 -
1" = 1'-0"

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REVISIONS					
NO.	DATE	DESCRIPTION	BY	CHKD	APPR
A	06/09/14	90% SUBMITTAL	AH	LMO	CAM
B	07/18/14	90% RESUBMITTAL	AH	LMO	CAM
C	08/01/14	100% SUBMITTAL/ PERMIT SET	AH	LMO	CAM

WATER EMERGENCY TRANSPORTATION AUTHORITY
WETA

MANSON CONSTRUCTION CO.
200 Cutting Blvd., Richmond, CA 94804, (510)232-6319

CONSULTANT
Liftech
LIFTECH CONSULTANTS INC.
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SEAL/SIGNATURE
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CATHERINE A. MORRISSEY
No. S3958
Exp. 12/31/2015
STRUCTURAL
STATE OF CALIFORNIA
FOR LIFTECH CONSULTANTS INC
SIGNATURE DATE:

SEAL/SIGNATURE

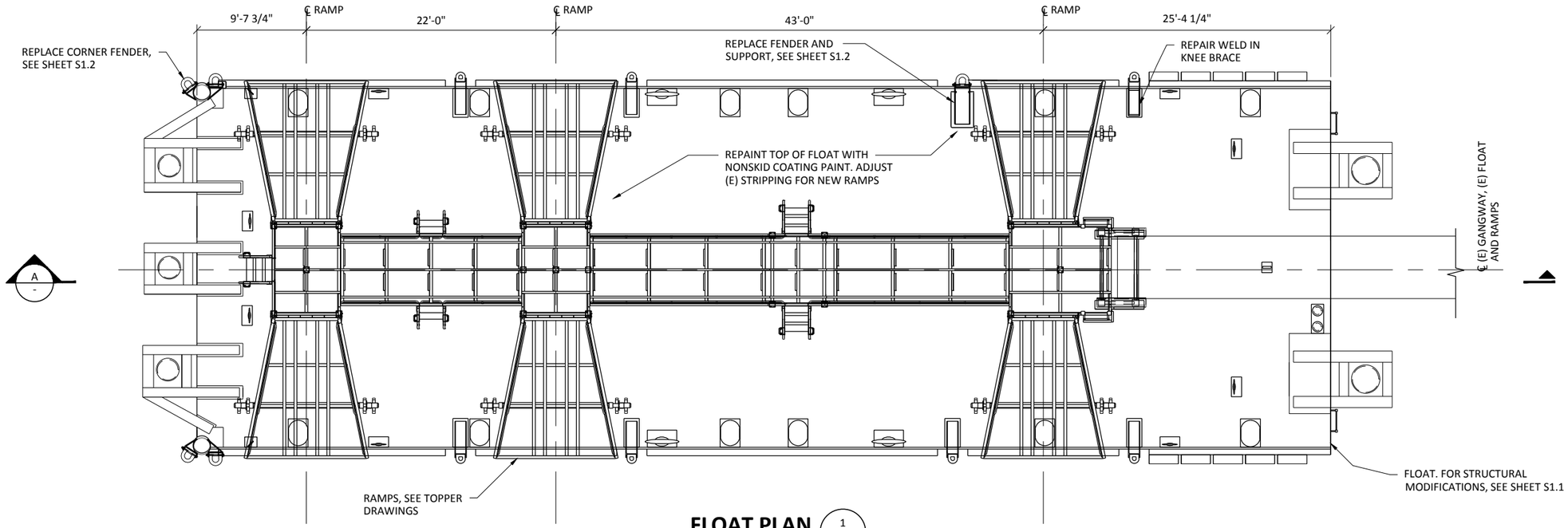
DESIGNED BY: CAM
DRAWN BY: AH
CHECKED BY: LMO

PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

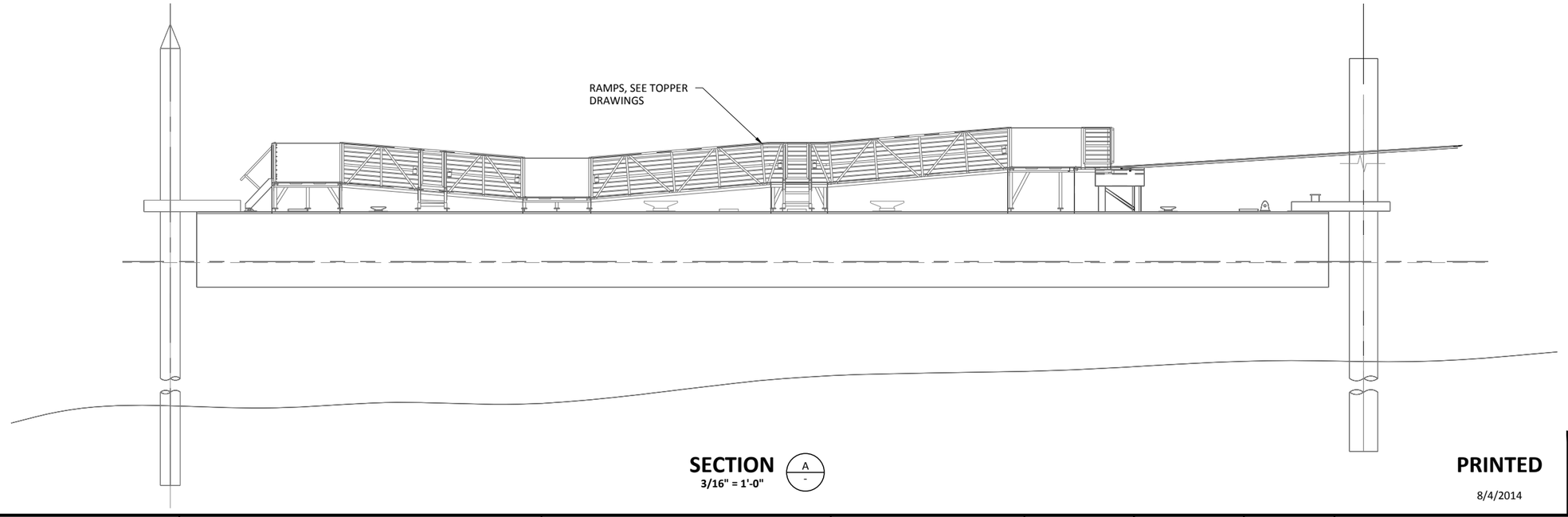
SHEET
PIER MODIFICATION PLAN AND ELEVATIONS

DATE ----
SHEET OF G4.2 #
DRAWING NO. G4.2
JOB NO. 2045

\\moe\2045\2045\Dwg\Current\Harbor Bay\G4.2 PIER MODIFICATION PLAN AND ELEVATIONS.dwg 8/4/2014 12:06 PM ALVIN HOFFPAUIR



FLOAT PLAN (1 / G2.1 | G4.3)
3/16" = 1'-0"



SECTION (A / -)
3/16" = 1'-0"

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REVISIONS

NO.	DATE	DESCRIPTION	BY	CHKD	APPR
A	06/09/14	90% SUBMITTAL	AH	LMO	CAM
B	07/18/14	90% RESUBMITTAL	AH	LMO	CAM
C	08/01/14	100% SUBMITTAL/ PERMIT SET	AH	LMO	CAM

WATER EMERGENCY TRANSPORTATION AUTHORITY
WETA

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Liftech
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344-20th Street, Suite 360,
Oakland, Ca 94610 (510)832-5606 P# 2045

SEAL/SIGNATURE
REGISTERED PROFESSIONAL ENGINEER CHERYNE A. MORRIS No. S3958 Exp. 12/31/2015 STRUCTURAL STATE OF CALIFORNIA
FOR LIFTECH CONSULTANTS INC
SIGNATURE DATE:

SEAL/SIGNATURE

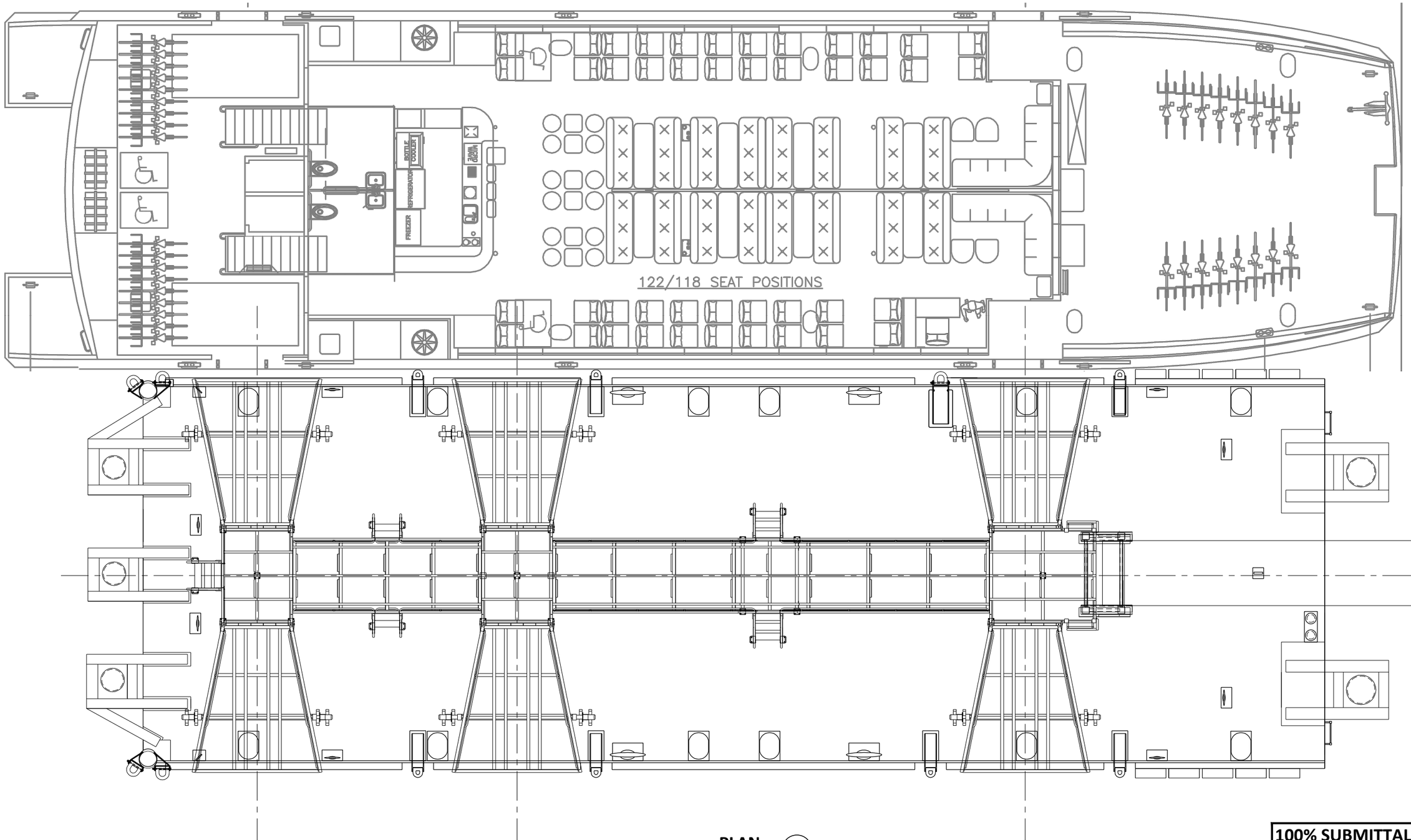
DESIGNED BY: CAM
DRAWN BY: AH
CHECKED BY: LMO

PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

SHEET
FLOAT MODIFICATION PLANS AND ELEVATIONS

DATE ----
SHEET G4.3 OF #
DRAWING NO. G4.3
JOB NO. 2045

\\moe\2045\2045\Dwg\Current\Harbor Bay\G4.3 FLOAT MODIFICATION PLANS AND ELEVATIONS.dwg 8/4/2014 12:06 PM ALVIN HOFFPAUIR



PLAN
1/4" = 1'-0"

1
-

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REVISIONS

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B	07/18/14	90% RESUBMITTAL	AH	LMO	CAM
C	08/01/14	100% SUBMITTAL/	AH	LMO	CAM
		PERMIT SET			

WATER EMERGENCY TRANSPORTATION AUTHORITY
WETA

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CATHERINE A. MORRIS
No. S3958
Exp. 12/31/2015
STRUCTURAL
STATE OF CALIFORNIA
FOR LIFTECH CONSULTANTS INC
SIGNATURE DATE:

SEAL/SIGNATURE

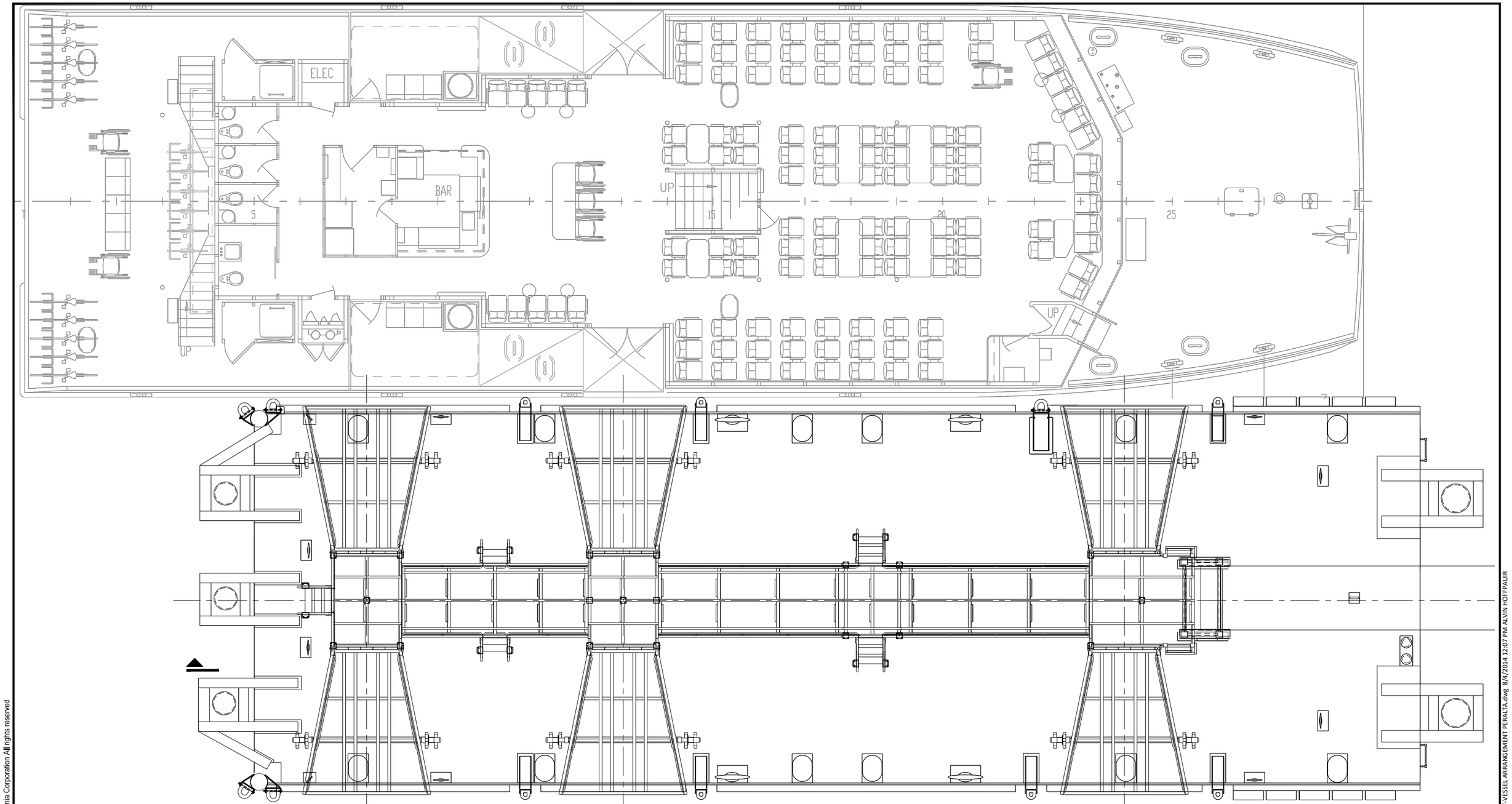
DESIGNED BY: CAM
DRAWN BY: AH
CHECKED BY: LMO

PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

SHEET
FLOAT-VESSEL ARRANGEMENT WETA AND BAY LINK

DATE ----
SHEET G5.1 OF #
DRAWING NO. G5.1
JOB NO. 2045

\\moe\2045\2045\Dwg\Current\Harbor Bay\G5.1 FLOAT-VESSEL ARRANGEMENT WETA AND BAY LINK.dwg 8/4/2014 12:07 PM ALVIN HOFFPAUIR



PLAN (1/-)
1/4" = 1'-0"

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8/4/2014

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REVISIONS

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A	06/09/14	90% SUBMITTAL	AH	LMO	CAM
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C	08/01/14	100% SUBMITTAL/ PERMIT SET	AH	LMO	CAM

WATER EMERGENCY TRANSPORTATION AUTHORITY
WETA

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REGISTERED PROFESSIONAL ENGINEER CHERINE A. MORRISETT No. S3958 Exp. 12/31/2015 STRUCTURAL STATE OF CALIFORNIA
FOR LIFTECH CONSULTANTS INC
SIGNATURE DATE:

SEAL/SIGNATURE

DESIGNED BY: CAM
DRAWN BY: AH
CHECKED BY: LMO

PROJECT
ALAMEDA HARBOR BAY
TERMINAL ALAMEDA, CA

SHEET
FLOAT-VESSEL ARRANGEMENT PERALTA

DATE ----
SHEET OF G5.2 #
DRAWING NO. G5.2
JOB NO. 2045

\\moe\2045\2045\Dwg\Current\Harbor Bay\G5.2 FLOAT-VESSEL ARRANGEMENT PERALTA.dwg 8/4/2014 12:07 PM ALVIN HOFFPAUIR