

CLEAR LAKE ACRES

BOULEVARD

LAKESHORE

PARCEL B - A.P.N. 028-322-08
3170 LAKESHORE BLVD.

NOTE: OWNER IS IN THE PROCESS OF
MERGING THESE 2 PARCELS

PARCEL A
A.P.N. 028-322-09
3160 LAKESHORE
BLVD.

(E) GARAGE
(E) 2ND F.L. SHOWN
HATCHED
(E) SINGLE
FAMILY
RESIDENCE
FOOTPRINT

EXISTING SEAWALL

PROPOSED PIER
150'-0"

LANDS COMMISSION LOW WATER

EXISTING SEAWALL

(E) 3'-2 1/2"
GANGWAY

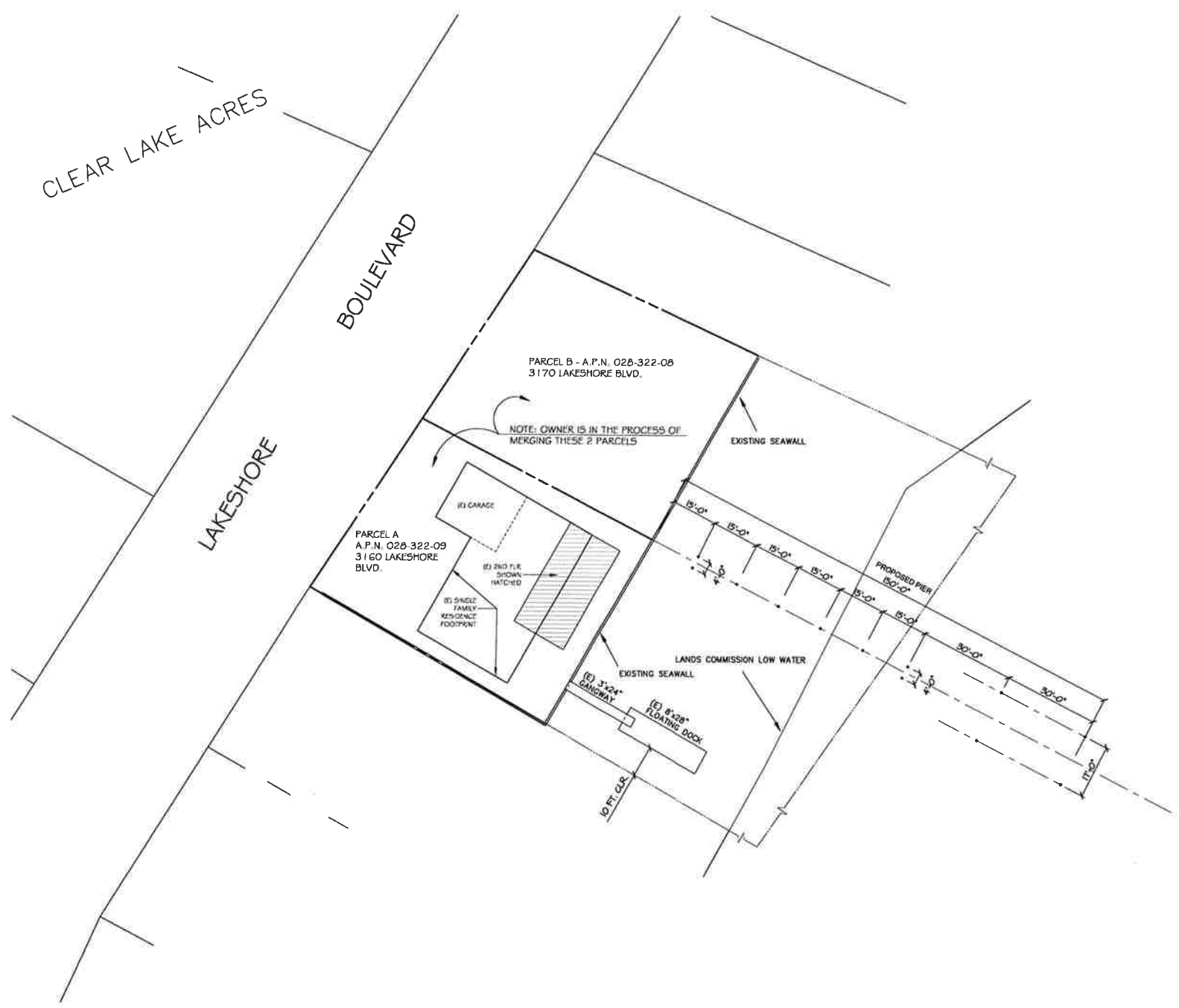
(E) 8'-1/8"
FLOATING DOCK

10 FT. CL.

1 PIER PLAN
SCALE: 1" = 20' 6/24/2020



~~PLANNING DEPARTMENT
APPROVED
Date 10/29/2020
By MAT
028-322-09
A.P.#
pier/boat-B
PIER PLAN~~ MAT



CLEAR LAKE ACRES

BOULEVARD

LAKESHORE

PARCEL B - A.P.N. 028-322-08
3170 LAKESHORE BLVD.

NOTE: OWNER IS IN THE PROCESS OF
MERGING THESE 2 PARCELS

PARCEL A
A.P.N. 028-322-09
3160 LAKESHORE
BLVD.

(G) GARAGE
(H) 2ND FLR. STRUCTURE
HATCHED
(I) SINGLE FAMILY RESIDENCE FOOTPRINT

EXISTING SEAWALL

PROPOSED PIER
150'-0"

LANDS COMMISSION LOW WATER

EXISTING SEAWALL

(D) 3'x24' RAMP

(E) 8'x28' FLOATING DOCK

10' FT. C.L.S.

1 PIER PLAN
SCALE: 1" = 20'

6/24/2020



~~LAKE COUNTY
PLANNING DEPARTMENT
CE 20-372
CE 20-55
APPROVED
Date 10/20/2020
By MAT
028-322-09
A.P.#
PIER/DOCK/RAFT
PLOT PLAN
MAT~~

GENERAL:

- STRUCTURAL DIMENSIONS ARE FOR GENERAL REFERENCE ONLY. ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS.
- STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OF CONSTRUCTION.
- OWNER/CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING FOR VERTICAL AND/OR LATERAL LOADS, SHORING AND LOADS DUE TO CONSTRUCTION EQUIPMENT.
- ALL ELECTRICAL JUNCTION BOXES SHALL BE ABOVE ELEV 1332 FT.
- CONTRACTOR/OWNER SHALL VERIFY ALL DIMENSIONS CONFORM TO LOCAL BUILDING CODE INCLUDING SETBACKS, MAX/MIN HEIGHTS OF DECKS, RAILING AND PILES.
- CONTRACTOR/OWNER SHALL VERIFY LOCATIONS OF STRUCTURES AND ELEMENTS OF STRUCTURES COMPLY WITH THE CLEARLAKE SHORELINE CODE.
- MAX OCCUPANCY SIGNS SHALL BE POSTED IN CLEAR VIEW.
- ALL FASTENERS SHALL BE GALVANIZED UNO.
- MOTOR/DRIVE ASSEMBLIES - BY OTHERS.
- CONTRACTOR/OWNER SHALL VERIFY BOAT DIMENSIONS CONFORM TO BOAT LIFT DIMENSIONS PRIOR TO FABRICATION.
- NO PORTION OF THE STRUCTURE SHALL EXCEED THE 20.00' RUMSEY ELEVATION (1338.26' MSL).
- NO PORTION OF THE STRUCTURE SHALL EXTEND BEYOND THE -10.0' RUMSEY CONTOUR.

PROJECT INFORMATION:

- PIER MAX OCCUPANCY: **20 PERSONS**
- BOAT LIFT MAX OCCUPANCY: **10 PERSONS**
- BOAT LIFT MAX TOTAL LOAD: **10 KIPS**
- BOAT MAX WEIGHT: **4500 LBS**

DESIGN CRITERIA:

- CODES: **2019 CBC**
- CLIMATE ZONE: **2**
- SNOW LOAD: **N/A**
- BASIC WIND SPEED: **92 MPH**
- EXPOSURE CATEGORY: **D**
- SOIL LATERAL BEARING CAPACITY: **100 PSF**
- RISK CATEGORY: **II**
- SEISMIC DESIGN CATEGORY: **D**

STEEL:

- ALL WELDS SHALL BE IN ACCORDANCE WITH THE CURRENT AMERICAN WELDING SOCIETY CODE (AWS).
- HSS STEEL SHALL BE SEALED, PROVIDED WITH A DRAIN HOLE AT THE BASE, OR PROTECTED AGAINST THE COLLECTION OF WATER BY OTHER SUITABLE MEANS.
- HSS STEEL SHALL BE CLEANED WITH A SUITABLE SOLVENT PRIOR TO PAINTING OR WELDING.
- HSS STEEL SHALL BE **ASTM-500 GRADE B**.
- ROLLED STEEL SHAPES PLATES AND BARS SHALL CONFORM TO **ASTM A36**.
- WIDE FLANGE SHAPES SHALL CONFORM TO **ASTM A992 GRADE 50**.
- PIPE SHAPES SHALL CONFORM TO **ASTM A53 GRADE B**.
- COMMON BOLTS SHALL CONFORM TO **ASTM A307**.
- HIGH STRENGTH BOLTS SHALL CONFORM TO **ASTM A490**.
- CABLE AND WIRE ROPE CONNECTIONS SHALL CONFORM TO **HMI 100 AND ASTM A1023**.
- PRIMER AND PAINT ALL EXPOSED STEEL.

STEEL - PILE FOUNDATION:

- STEEL PILES SHALL BE DRIVEN TO EXCEED THE SPECIFIED MINIMUM DEPTHS.
- STEEL PILES SHALL BE DRIVEN TO REFUSAL: 2000 LB HAMMER DROPPED FROM A HEIGHT OF 10 FT WITH VERTICAL DISPLACEMENT NOT EXCEEDING ONE INCH PER BLOW UNO.
- STEEL PILES SHALL HAVE A 3/8" STEEL CAP PLATE AT THE TOP UNO.
- ALUMINUM COMPONENTS SHALL BE ISOLATED FROM STEEL PILES TO PREVENT GALVANIC CORROSION.

WOOD:

- ALL SAWN LUMBER SHALL BE MINIMUM #2 DF. POSTS AND BEAMS 4x AND LARGER SHALL BE #1 DF UNLESS NOTED OTHERWISE (UNO).
- ALL PREFABRICATED MECHANICAL CONNECTORS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS. METAL FRAMING CONNECTIONS IN CONTACT WITH PRESSURE TREATED WOOD SHALL BE GALVANIZED.
- WOOD AGAINST SOIL OR CONCRETE SHALL BE PRESSURE TREATED DF (PTDF).
- ALL BEAMS AND JOISTS SHALL BE SEAT CUT FOR FULL UNIFORM BEARING AT SUPPORTS.
- ALL PRE-FABRICATED STRUCTURAL ELEMENTS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

SPECIAL INSPECTIONS (CBC Ch. 17):

- MATERIAL VERIFICATION OF STRUCTURAL STEEL:
 - IDENTIFICATION OF MARKINGS TO CONFORM TO ASTM STANDARDS PER APPROVED CONSTRUCTION DOCUMENTS.
 - MANUFACTURER'S CERTIFIED MILL TEST REPORTS.
- MATERIAL VERIFICATION OF WELD FILLER MATERIAL:
 - IDENTIFICATION OF MARKINGS TO CONFORM TO ASTM STANDARDS PER APPROVED CONSTRUCTION DOCUMENTS.
 - MANUFACTURER'S CERTIFICATE OF COMPLIANCE.
- INSPECTION OF WELDING:
 - COMPLETE AND PARTIAL PENETRATION GROOVE WELDS: **CONTINUOUS**
 - SINGLE PASS FILLET WELDS >= 5/16: **PERIODIC**
 - FLOOR AND ROOF DECK WELDS: **PERIODIC**
- VERIFICATION AND INSPECTION OF DRIVEN DEEP FOUNDATION ELEMENTS:
 - OBSERVE DRIVING OPERATIONS AND MAINTAIN COMPLETE AND ACCURATE RECORDS FOR EACH ELEMENT: **CONTINUOUS**
 - VERIFY PLACEMENT LOCATIONS AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION: **CONTINUOUS**

ADDITIONAL NOTES:

- ALL STEEL TO STEEL CONNECTIONS SHALL HAVE 3/16" MIN FILLET, FLARE-BEVEL AND BUTT WELDS ALL AROUND UNO.
- PROVIDE L2x2x1/4 BACKING BELOW JOISTS WHERE GANGWAYS LAND ON DECK.
- CABLE/WIRE ROPE SHALL BE 3/8" Ø 7x19 MIN GALVANIZED STEEL UNO.
- SITE PLAN AND ENCROACHMENT PERMITTING - BY OTHERS.

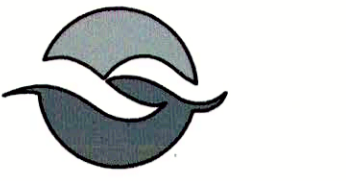
ABBREVIATIONS:

- @ AT
- Ø DIAMETER
- / OR
- AB ANCHOR BOLT
- ABV ABOVE
- APRX APPROXIMATE
- BLK BLOCK
- BLKG BLOCKING
- BLW BELOW
- BM BEAM
- BN BOUNDARY NAIL
- BTM BOTTOM
- BTW BETWEEN
- CJ CONTROL JOINT
- C/L CENTERLINE
- CIP CAST IN PLACE
- CMU CONCRETE MASONRY UNIT
- CONT CONTINUOUS
- DBL DOUBLE
- DF DOUGLAS FIR
- DIAM DIAMETER
- DWG DRAWING
- (E) EXISTING
- EA EACH
- EF EACH FACE
- EL ELEVATION
- EQ EQUAL
- EW EACH WAY
- EXT EXTERIOR
- FF FINISH FLOOR
- FG FINISH GRADE
- FLR FLOOR
- FTG FOOTING
- FND FOUNDATION
- HD HOLDOWN
- HDR HEADER
- HGR HANGER
- HORZ HORIZONTAL
- HSS HOLLOW STR SECTION
- ID INSIDE DIMENSION
- INT INTERIOR
- MFD MANUFACTURED
- MFR MANUFACTURER
- MISC MISCELLANEOUS
- MAX MAXIMUM
- MIN MINIMUM

ABBREVIATIONS:

- (N) NEW
- NOM NOMINAL
- NSG NON SHRINK GROUT
- NTS NOT TO SCALE
- OC ON CENTER
- OD OUTSIDE DIMENSION
- PEN PANEL EDGE NAIL
- PIA POST INSTALLED ANCHOR
- PL PLATE
- PNL PANEL
- PTDF PRESS TREATED DF
- PV PHOTOVOLTAIC
- RC REINFORCED CONCRETE
- REF REFERENCE
- RWD REDWOOD
- SAD SEE ARCH DRAWINGS
- SCH SCHEDULE
- SIM SIMILAR
- SOG SLAB ON GRADE
- SPR SPROCKET
- SQ SQUARE
- SS STAINLESS STEEL
- STD STANDARD
- STR STRUCTURAL
- SYM SYMMETRICAL
- SW SHEAR WALL
- TBD TO BE DETERMINED
- T&B TOP AND BOTTOM
- THD THREADED
- TOW TOP OF WALL
- TYP TYPICAL
- UNO UNLESS NOTED OTHERWISE
- VERT VERTICAL
- VIF VERIFY IN FIELD
- W/ WITH
- W/O WITHOUT
- WR WIRE ROPE
- WWF WELDED WIRE FABRIC

NOTES



MENDO LAKE ENGINEERING

1675 SOUTH MAIN ST, LAKEPORT, CA 95453
(707) 263-7783 Main | (707) 635-8129 Fax



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HOWERTON RESIDENCE

PIER AND BOAT LIFT
3160 LAKESHORE BLVD
LAKEPORT, CA 95453

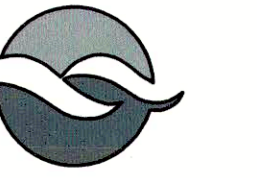
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DATE: 10/1/20
BY: BCH
SCALE: NA
JOB: 20-110

SUBMITTAL

TITLE:
NOTES

SHEET:
S1



MENDO LAKE ENGINEERING

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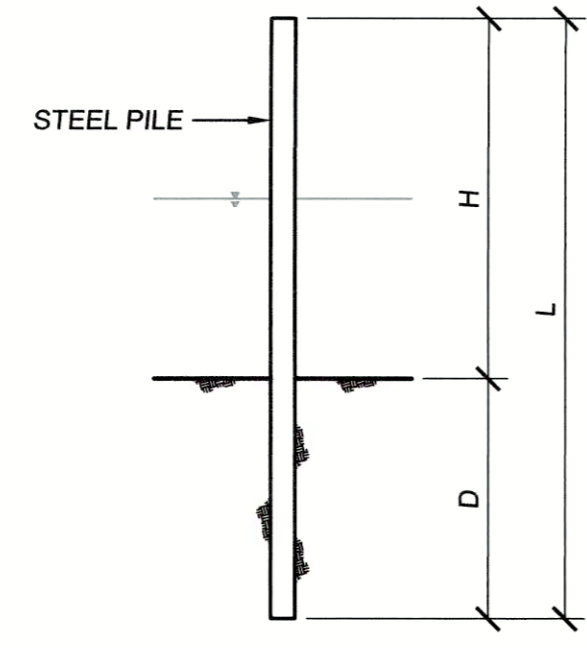
PIER AND BOAT LIFT
3160 LAKESHORE BLVD
LAKEPORT, CA 95453

#	REVISION	DATE

DATE: 10/1/20
 BY: BCH
 SCALE: 1/4"=1'
 JOB: 20-110

SUBMITTAL
 TITLE:
PIER FRAMING ELEVATION

SHEET:
S2

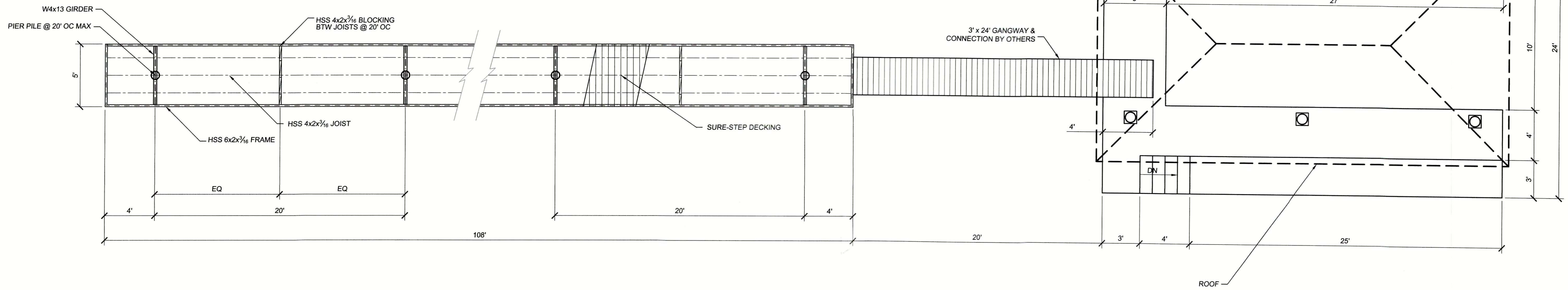


PIER PILE SCHEDULE

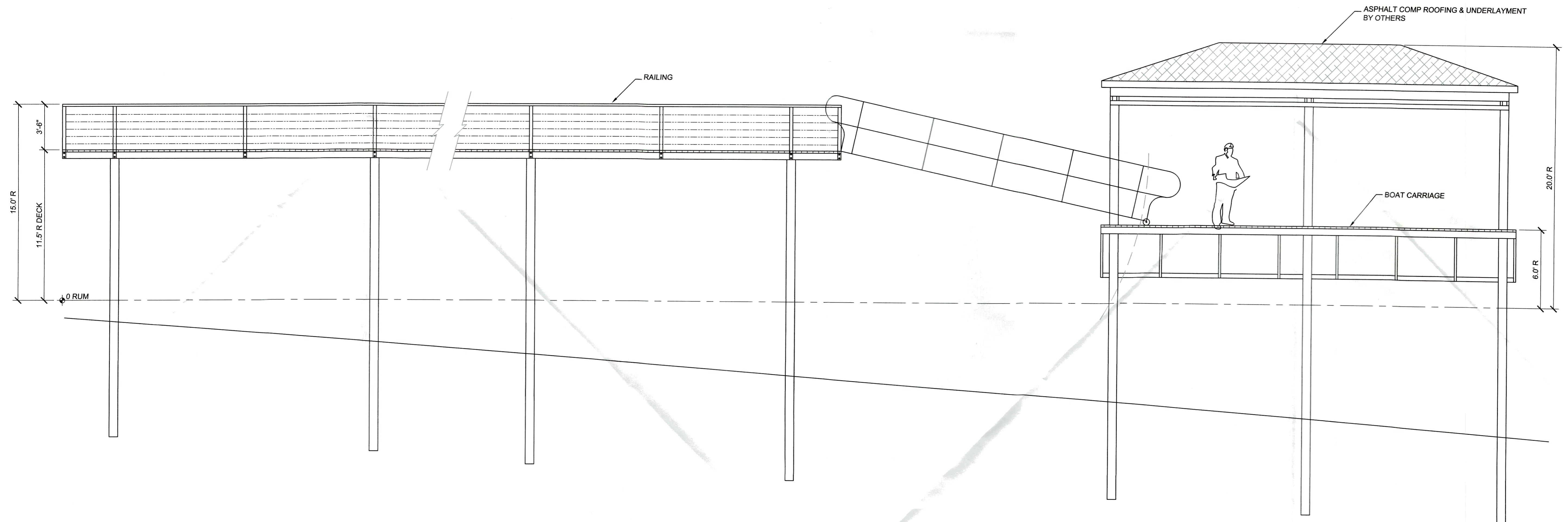
ID	D (FT)	PILE
-	13.5	8" Ø SCH 40

BOAT LIFT PILE SCHEDULE

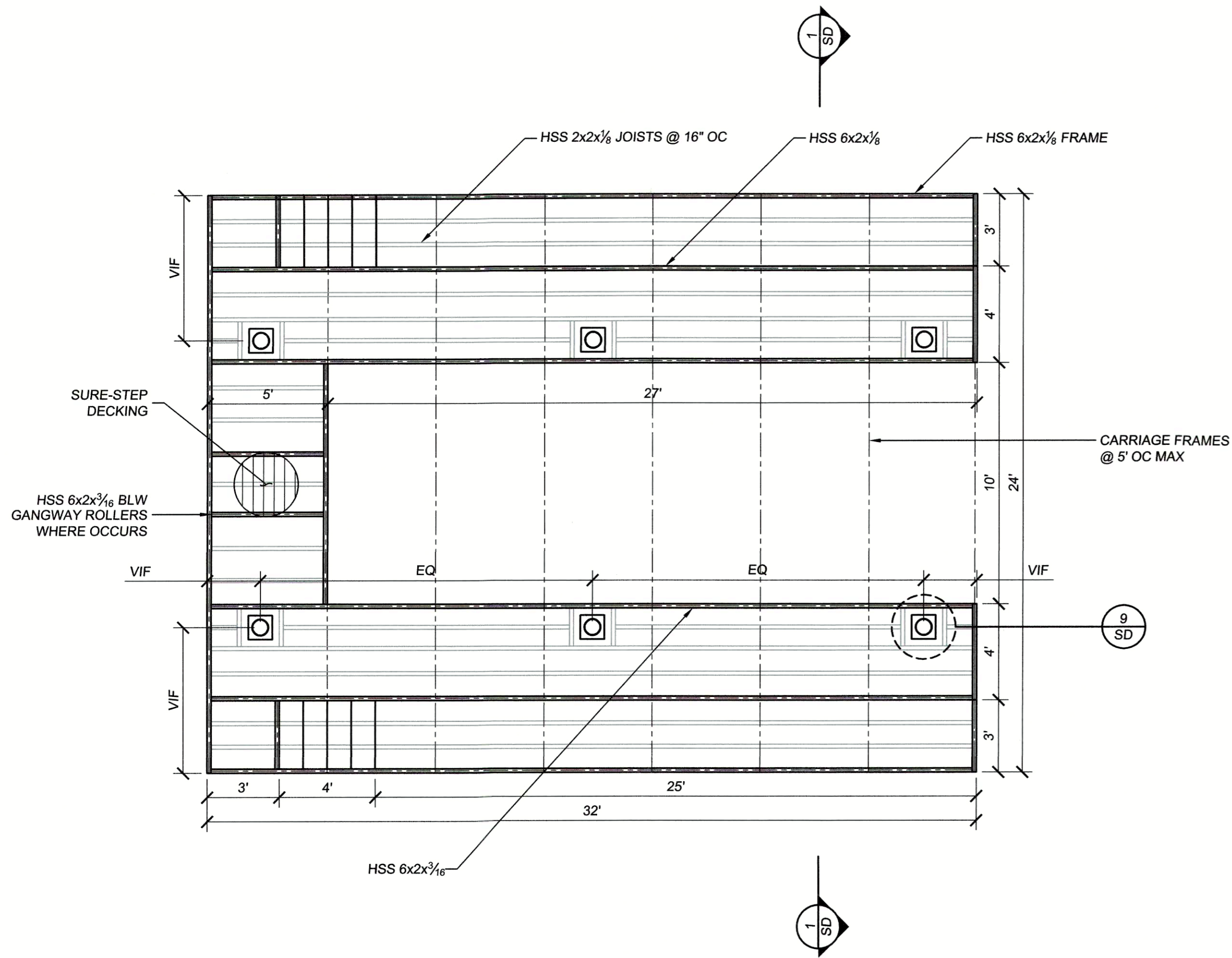
ID	D (FT)	PILE
-	16.0	10" Ø SCH 40



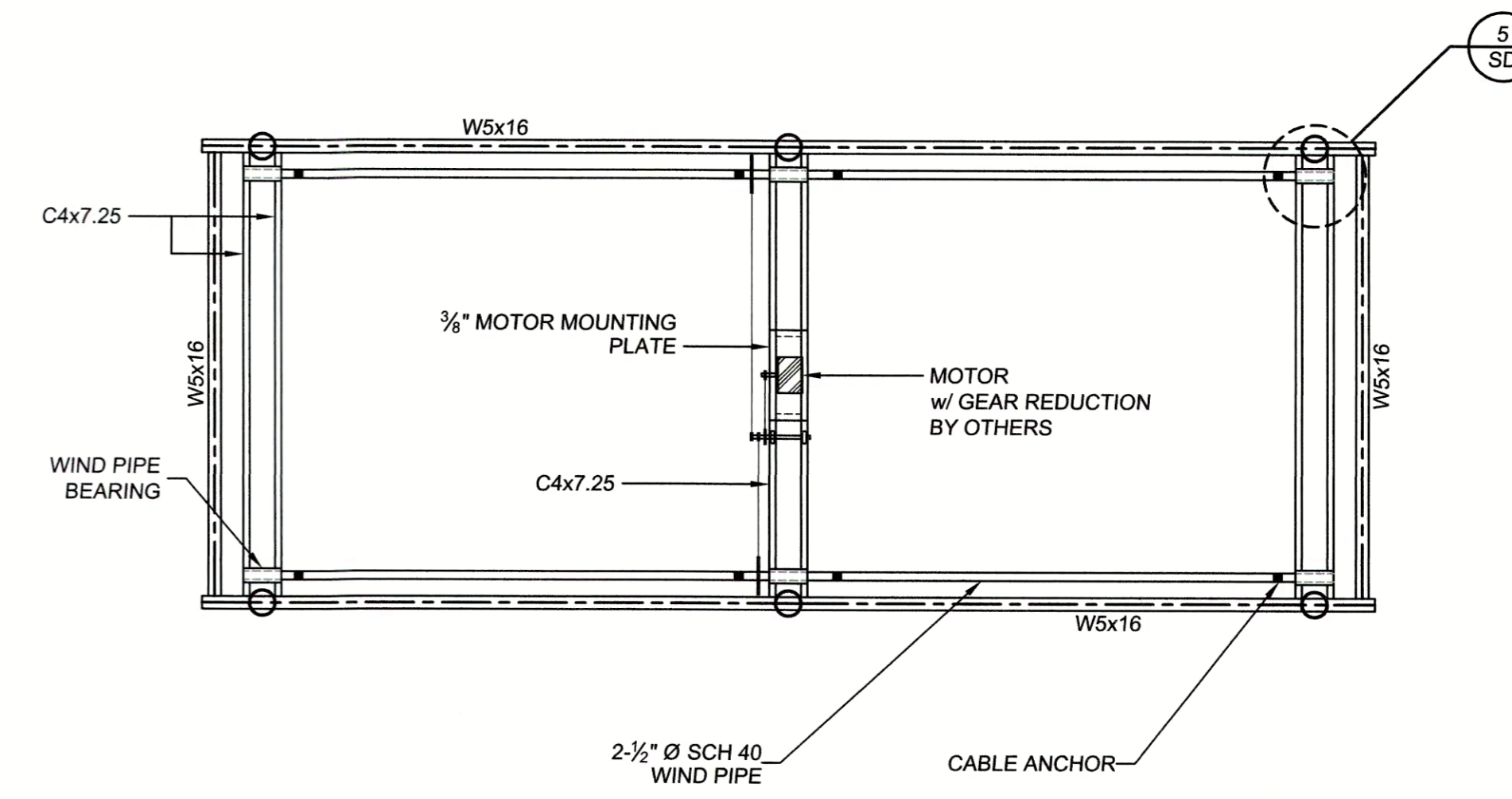
1 PIER FRAMING SCALE: 1/4"=1'



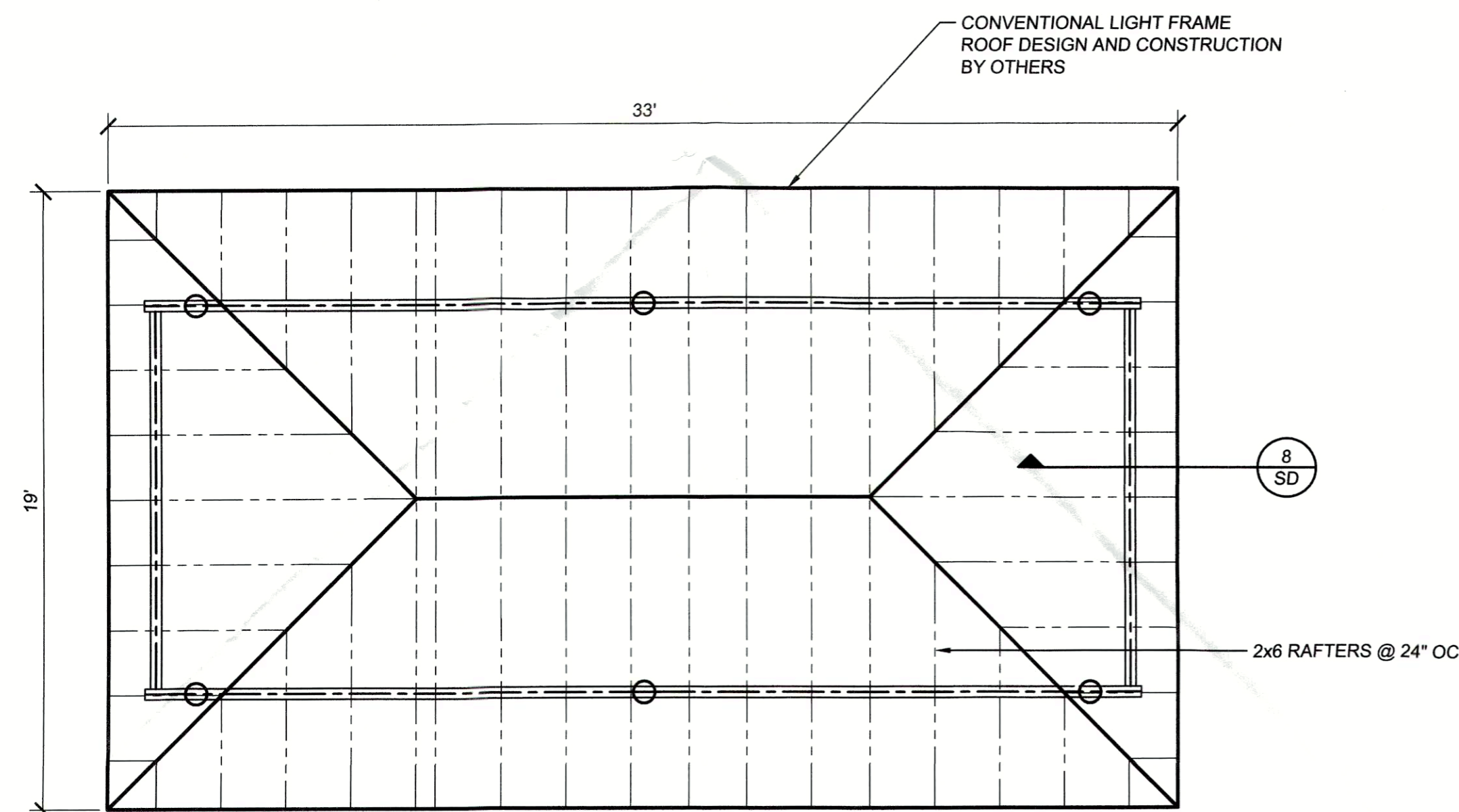
2 ELEVATION SCALE: 1/4"=1'



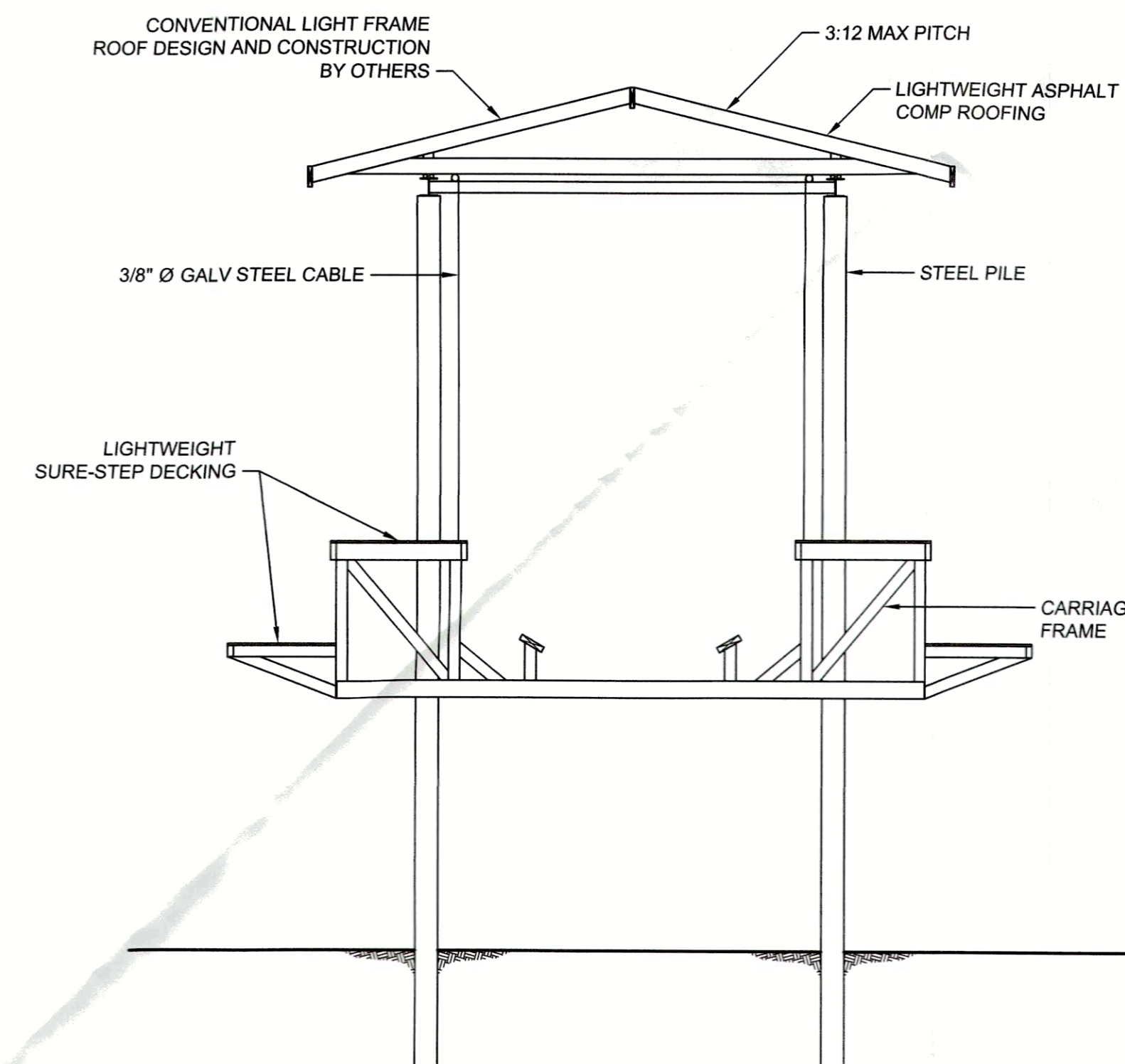
1 DECK FRAMING SCALE: 1/4"=1'



2 LIFT FRAMING SCALE: 1/4"=1'



3 ROOF FRAMING SCALE: 1/4"=1'



4 TRANSVERSE SECTION SCALE: 1/4"=1'

MENDO LAKE ENGINEERING

1675 SOUTH MAIN ST. LAKEPORT, CA 95453
(707) 263-7783 Main | (707) 635-8129 Fax

REGISTERED PROFESSIONAL ENGINEER
CIVIL
STATE OF CALIFORNIA
C71161
10.1.20

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HOWERTON RESIDENCE

PIER AND BOAT LIFT

3160 LAKESHORE BLVD
LAKEPORT, CA 95453

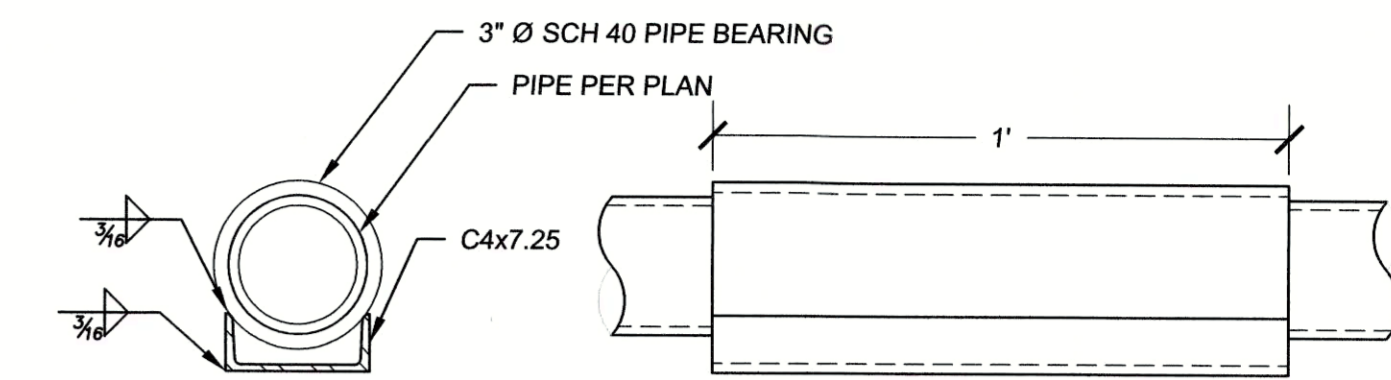
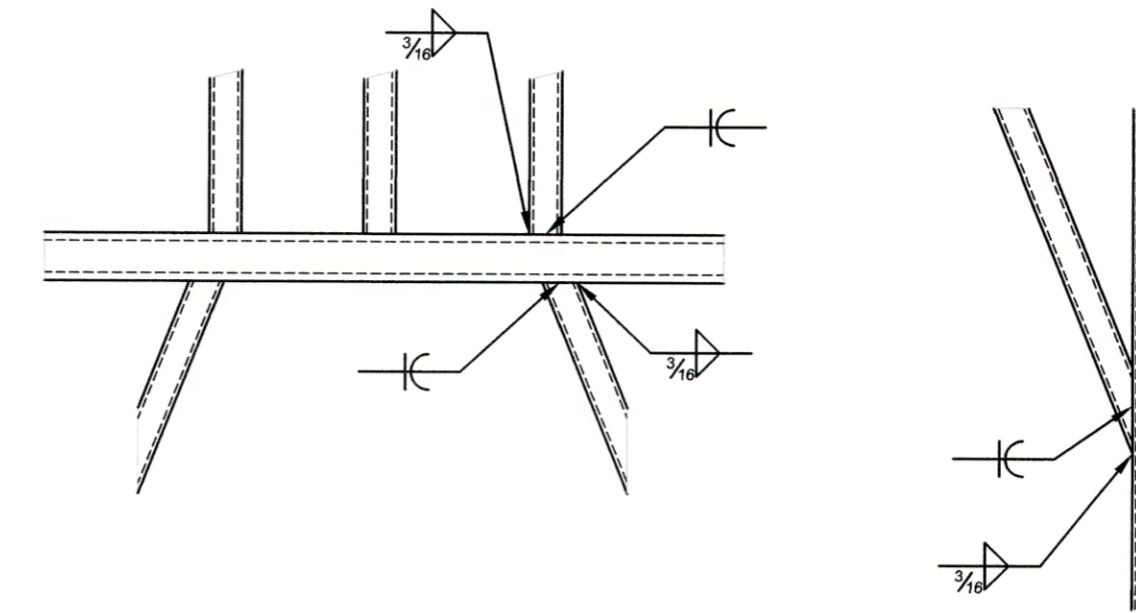
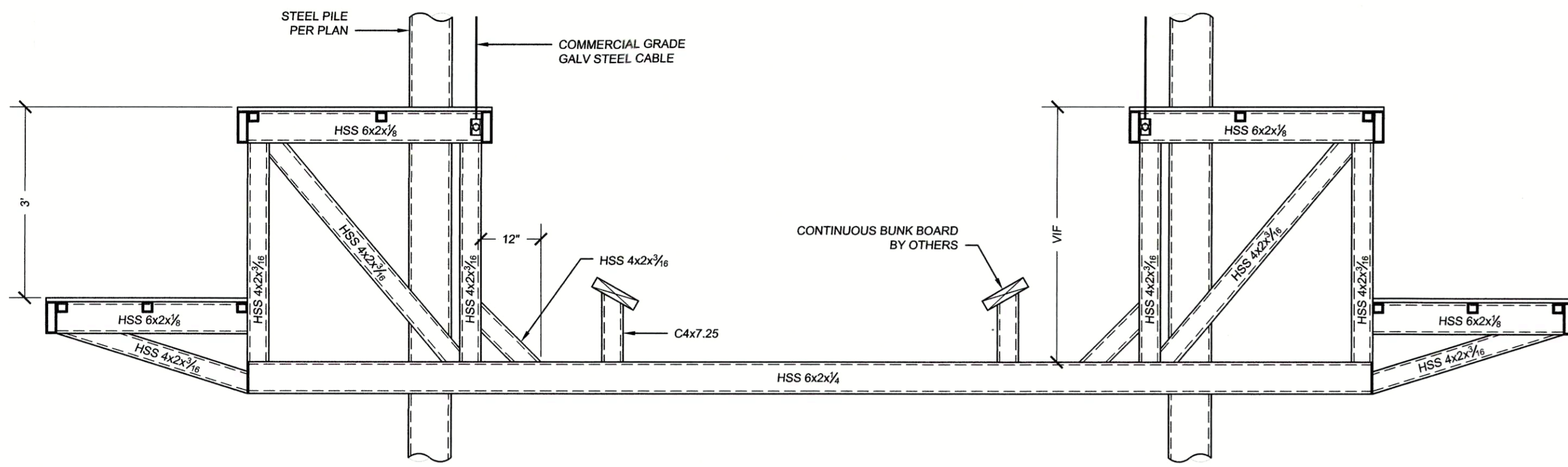
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DATE: 10/1/20
BY: BCH
SCALE: NA
JOB: 20-110

SUBMITTAL

TITLE:
**BOAT LIFT FRAMING
TRANSVERSE
SECTION**

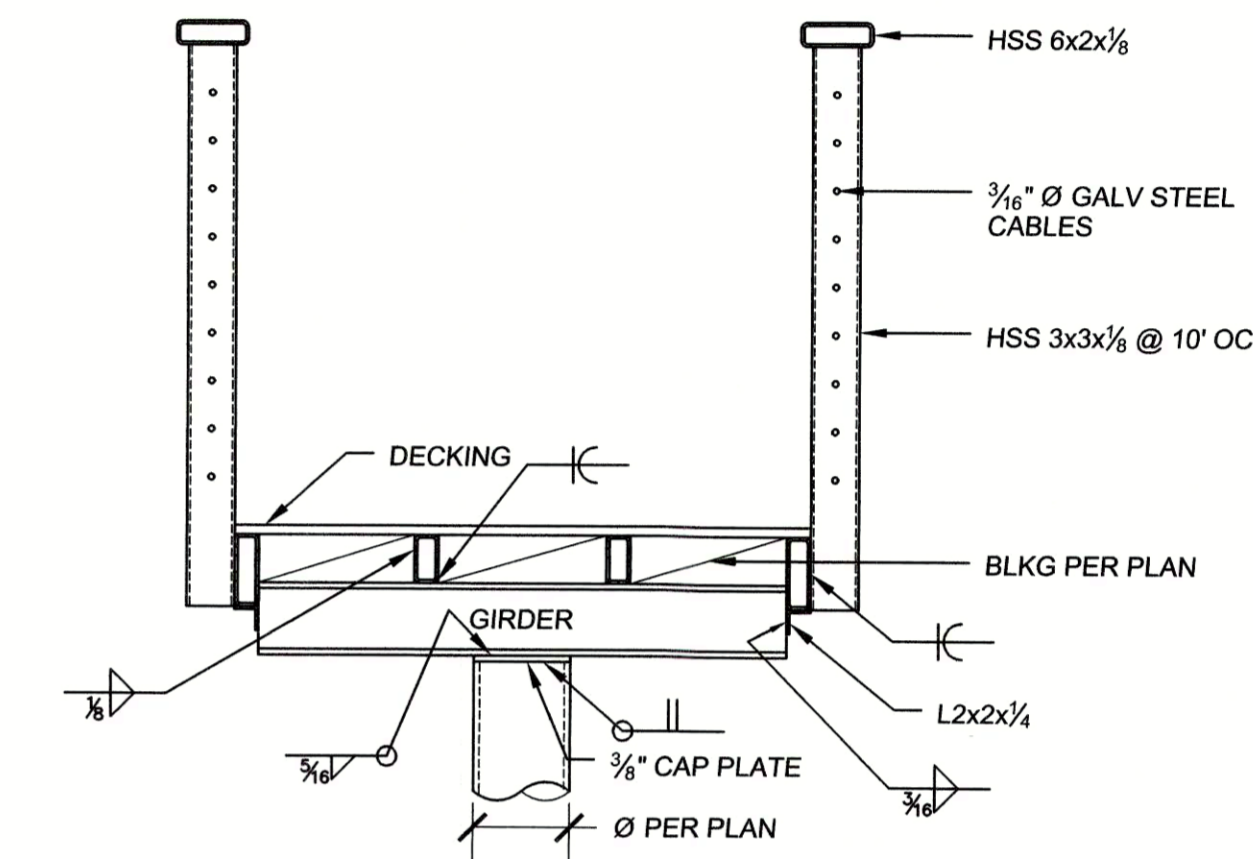
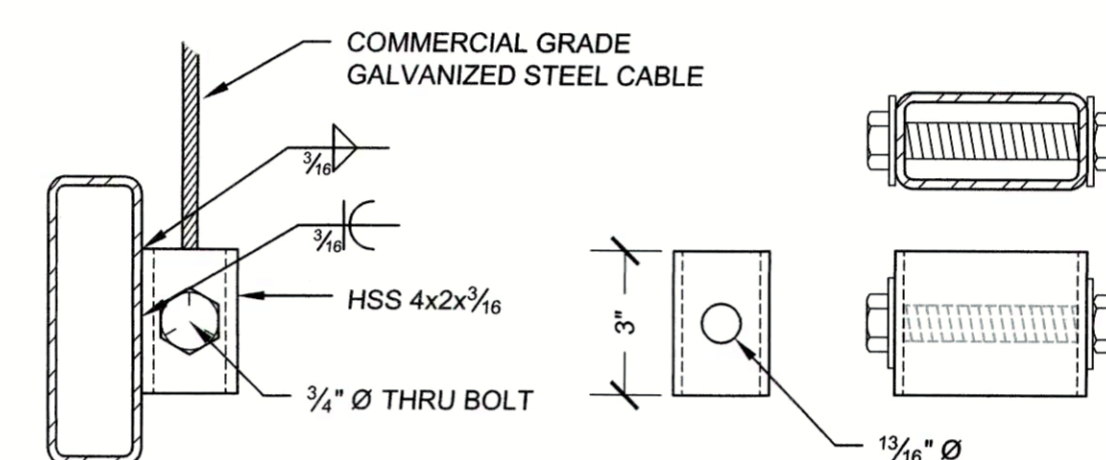
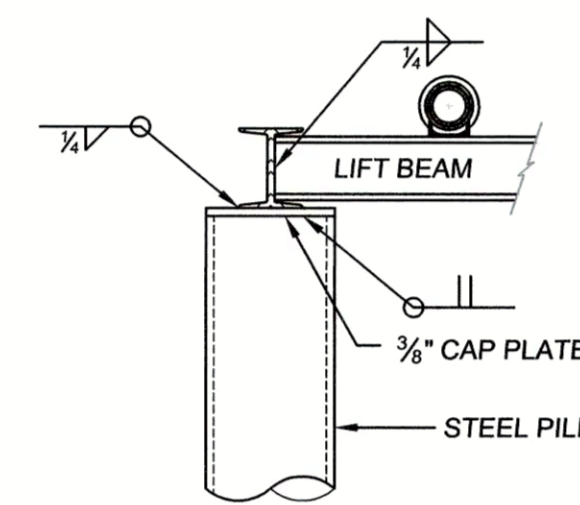
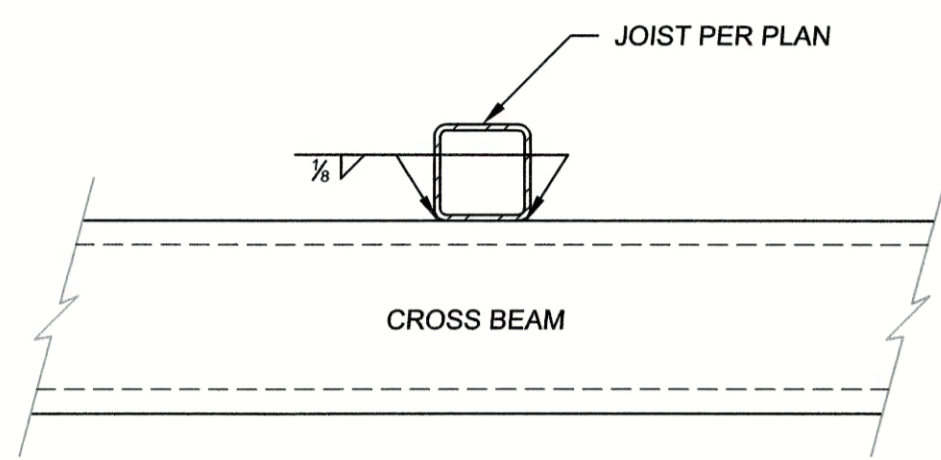
SHEET:
S3



1 CARRIAGE FRAME SCALE: NTS

2 FRAME CONNECTION SCALE: NTS

3 BEARING SCALE: NTS

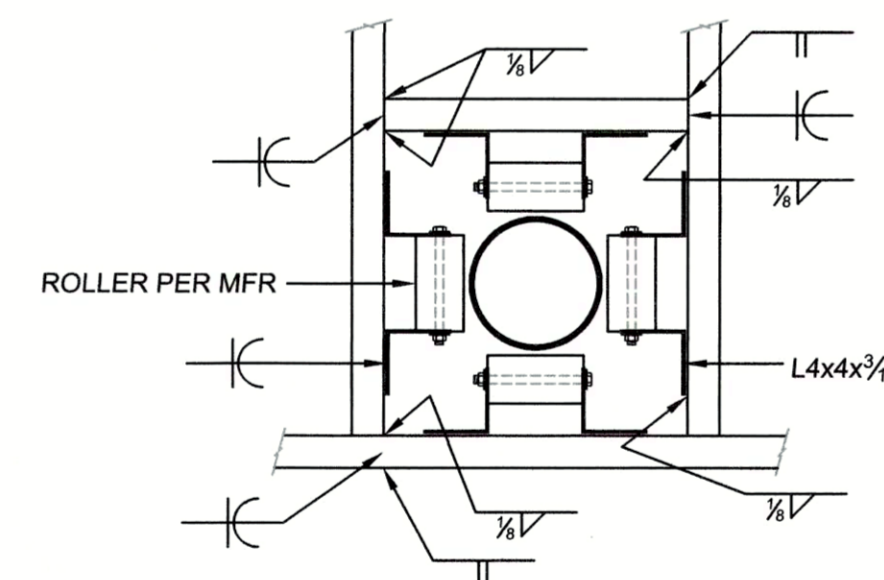
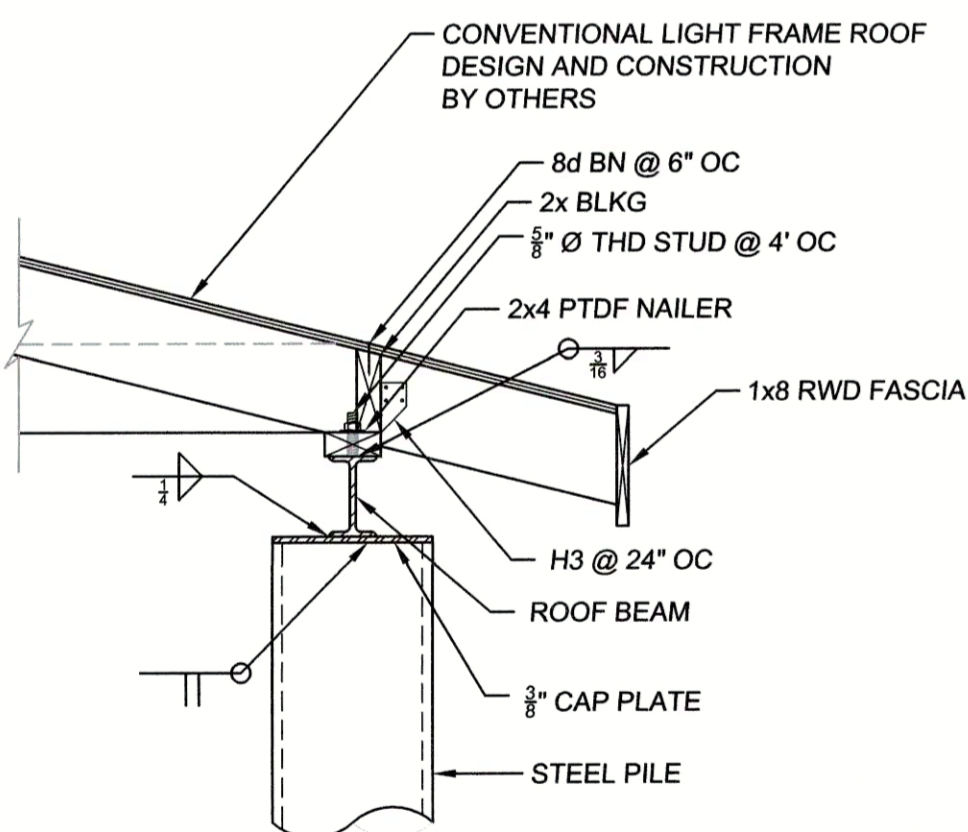


4 JOIST CONNECTION SCALE: NTS

5 LIFT BEAM CONNECTION SCALE: NTS

6 WIRE ROPE ANCHOR SCALE: NTS

7 PIER SECTION SCALE: NTS



8 ROOF CONNECTION SCALE: NTS

9 PILE GUIDE SCALE: NTS

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 3160 LAKESHORE BLVD
 LAKEPORT, CA 95453

REVISION	DATE

DATE: 10/1/20
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 SCALE: NTS
 JOB: 20-110

SUBMITTAL
 TITLE:
STRUCTURAL DETAILS
 SHEET:
SD