

- NOTES:**
1. BATHOMETRIC SURVEY PROVIDED BY US ARMY CORPS OF ENGINEERS DATED MAY, 2014.
  2. TERRAIN REPRESENTED BY BATHOMETRIC SURVEY MAY NOT REPRESENT EXISTING CONDITIONS. FIELD VERIFY BEFORE ESTABLISHING NEW ANCHORAGE LOCATION.
  3. ANCHOR LOCATIONS TAKEN FROM SHOREMASTER DRAWINGS AND MAY NOT REPRESENT EXISTING CONDITIONS.



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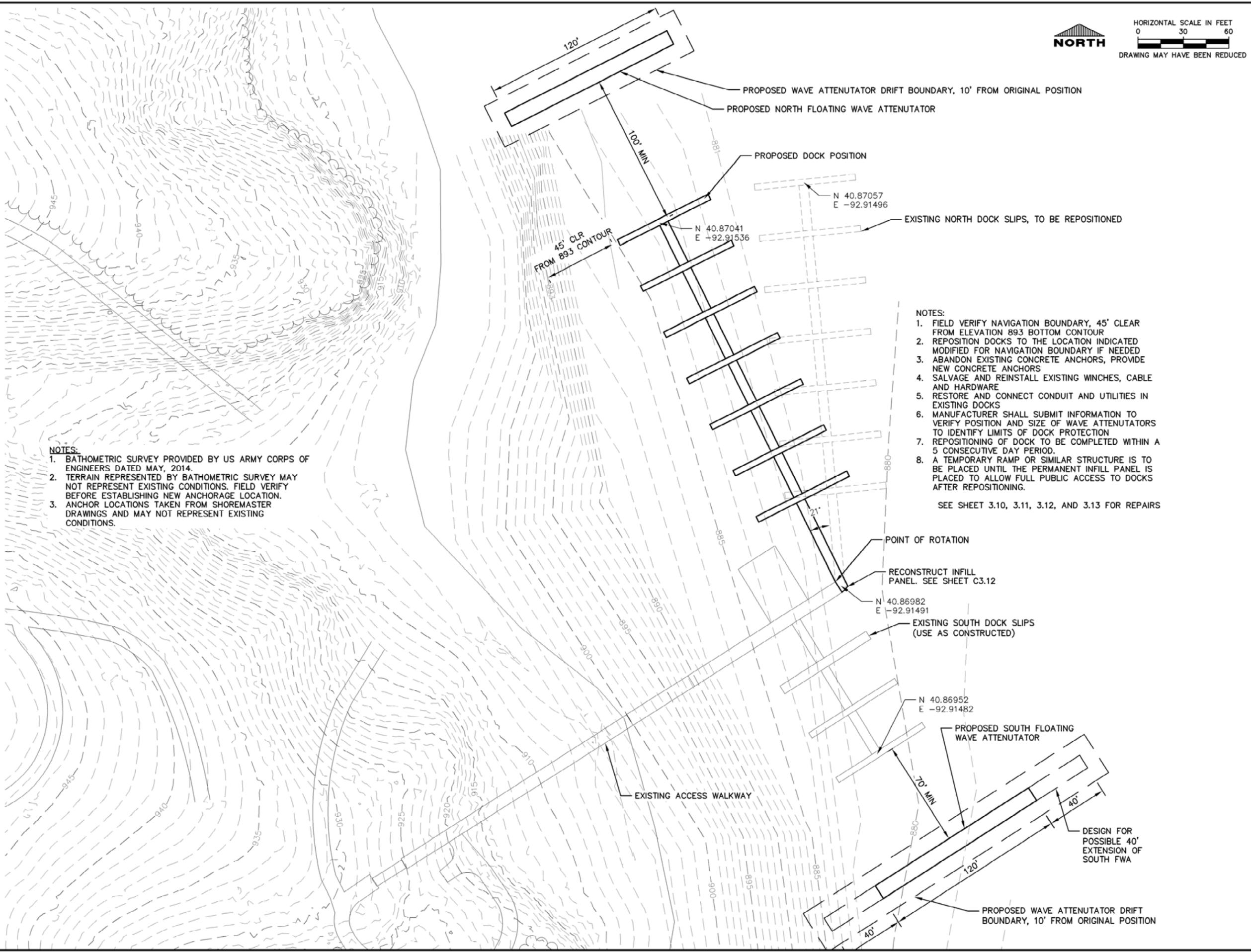
**EXISTING CONDITIONS PLAN**

HONEY CREEK RESORT DNR NO. 15-05-04-07  
DOCK IMPROVEMENTS REBID  
APPANOOSE COUNTY, IOWA  
P:\13\280\DRAWINGS\CIVIL\13280\_ZI-01\_P.DWG 5/4/2015 2:46 PM DAVE SCHWARZ

Rev	Description	Date	By

Sheet No. **C1.01**  
Project No: 13280





HORIZONTAL SCALE IN FEET  
0 30 60  
DRAWING MAY HAVE BEEN REDUCED

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**NOTES:**

1. FIELD VERIFY NAVIGATION BOUNDARY, 45' CLEAR FROM ELEVATION 893 BOTTOM CONTOUR
2. REPOSITION DOCKS TO THE LOCATION INDICATED MODIFIED FOR NAVIGATION BOUNDARY IF NEEDED
3. ABANDON EXISTING CONCRETE ANCHORS, PROVIDE NEW CONCRETE ANCHORS
4. SALVAGE AND REINSTALL EXISTING WINCHES, CABLE AND HARDWARE
5. RESTORE AND CONNECT CONDUIT AND UTILITIES IN EXISTING DOCKS
6. MANUFACTURER SHALL SUBMIT INFORMATION TO VERIFY POSITION AND SIZE OF WAVE ATTENUATORS TO IDENTIFY LIMITS OF DOCK PROTECTION
7. REPOSITIONING OF DOCK TO BE COMPLETED WITHIN A 5 CONSECUTIVE DAY PERIOD.
8. A TEMPORARY RAMP OR SIMILAR STRUCTURE IS TO BE PLACED UNTIL THE PERMANENT INFILL PANEL IS PLACED TO ALLOW FULL PUBLIC ACCESS TO DOCKS AFTER REPOSITIONING.

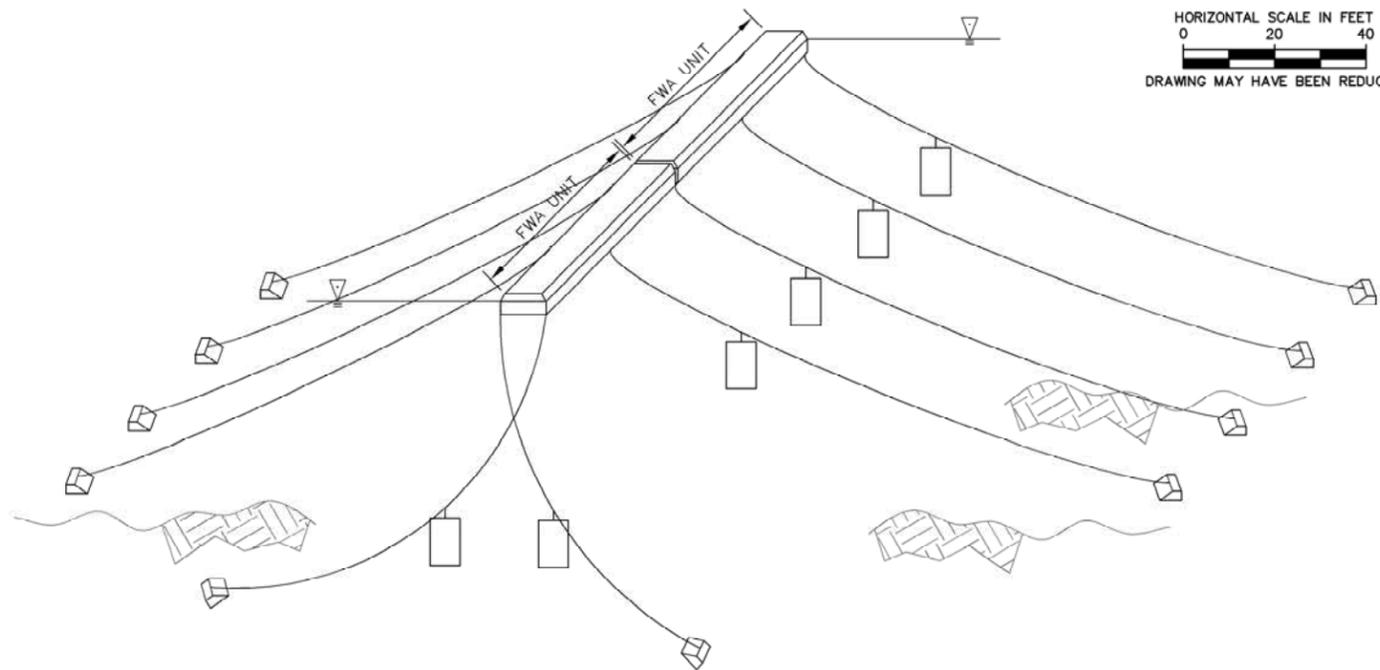
SEE SHEET 3.10, 3.11, 3.12, AND 3.13 FOR REPAIRS

**DOCK RELOCATION PLAN**

HONEY CREEK RESORT DNR NO. 15-05-04-07  
DOCK IMPROVEMENTS REBID  
APPANOOSE COUNTY, IOWA  
P. 131280.DRAWINGS\CIVIL\13280\_ZZ-02\_P.ENG 5/4/2015 2:40 PM JAYE SCHWARZ

Rev	Description	Date	By

Sheet No: **C2.10**  
Project No: 13280



HORIZONTAL SCALE IN FEET  
0 20 40  
DRAWING MAY HAVE BEEN REDUCED



DNR417: BOAT NAVIGATION ARROW W/BLUE 12X12

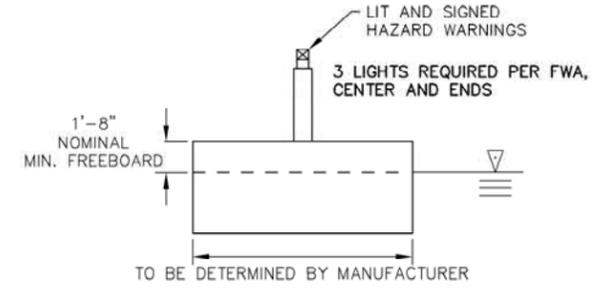
4 REQUIRED PER FWA



20x14 WITH INTERNATIONAL ORANGE BORDER AND BLACK TEXT  
4 REQUIRED PER FWA

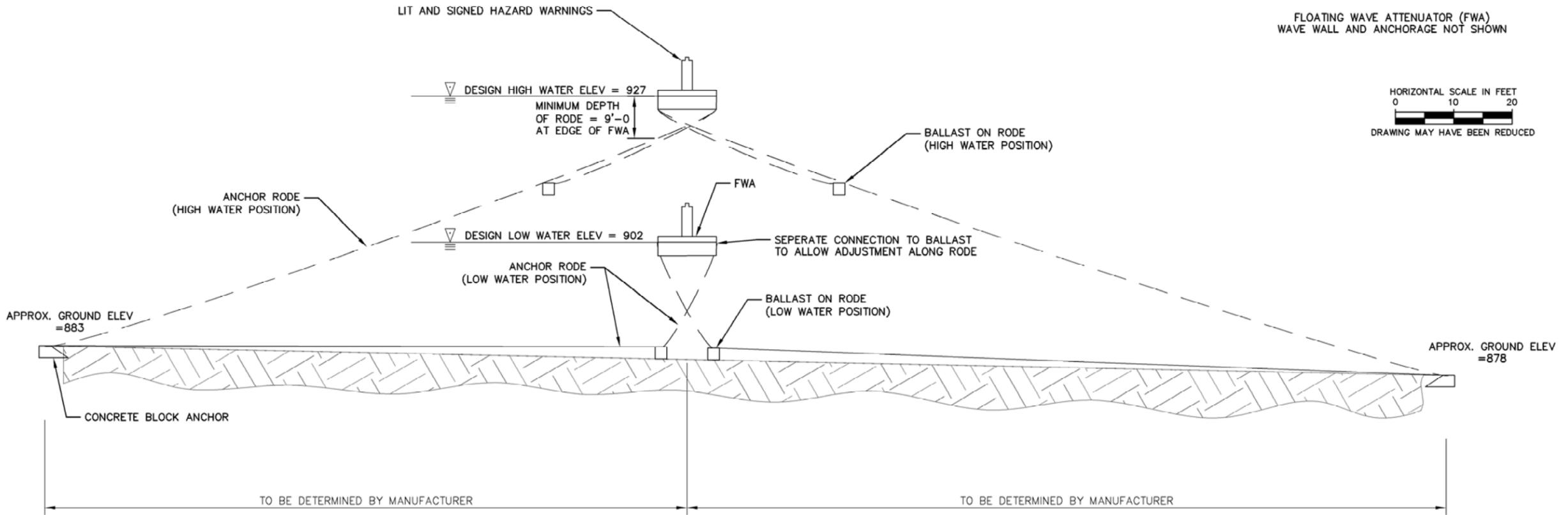
NOTES:

1. FLOATING WAVE ATTENUATOR (FWA) TO FUNCTION IN FULL RANGE OF WATER LEVEL CHANGES FROM ELEVATION 902 TO ELEVATION 927 WITHOUT OPERATOR INTERVENTION.
2. ANCHOR FWA WITH CONCRETE ANCHORS POSITIONED TO ALLOW FULL RANGE OF MOTION AND ADEQUATELY RESIST DESIGN FORCES IMPOSED THROUGH FULL RANGE OF MOTION.
3. ANCHOR RODES MAY BE ANY COMBINATION OF CABLE (STEEL OR MARINE SYNTHETIC) AND CHAIN.
4. PROVIDE SEPARATE CONNECTION TO RODE BALLAST FOR REPOSITIONING ADJUSTMENT WITH A SLIDING CONNECTION TO BALLAST.
5. PROVIDE DESIGN CALCULATIONS FOR APPROVAL SHOWING COMPLIANCE WITH THE DESIGN CRITERIA PRIOR TO FABRICATION.
6. SIGNAGE AND LIGHTS TO MEET REQUIREMENTS OF IOWA ADMINISTRATIVE CODE CHAPTER 41.
7. BID ITEM FLOATING WAVE ATTENUATOR, LINEAL FEET.
8. CLEATS TO BE PROVIDED EVERY 20-25 FEET ON ONE SIDE OF THE FWA. FENDERS ARE OPTIONAL. CLEATS AND FENDERS (IF PROVIDED) TO BE INCLUDED IN THE PRICE BID FOR FLOATING WAVE ATTENUATOR, LINEAL FEET.
9. SIGNING AND LIGHTING - SEE BID SCHEDULE.



FLOATING WAVE ATTENUATOR (FWA)  
WAVE WALL AND ANCHORAGE NOT SHOWN

HORIZONTAL SCALE IN FEET  
0 10 20  
DRAWING MAY HAVE BEEN REDUCED



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Project Description  
**WAVE ATTENUATOR  
SECTIONS & DETAILS**  
HONEY CREEK RESORT DNR NO. 15-05-04-07  
DOCK IMPROVEMENTS REBID  
APPANOOSE COUNTY, IOWA  
P. 131280 (DRAWINGS) CIVIL 13280 7Z-02 P. ENG 5/4/2015 2:38 PM JAYE SCHWARZ

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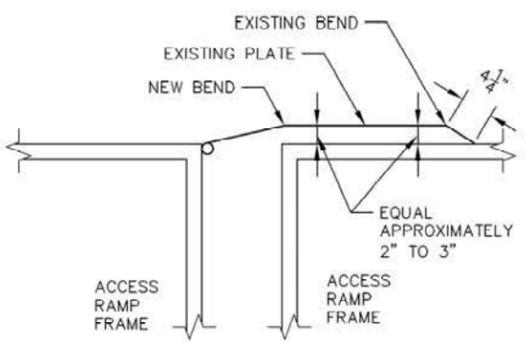


Rev	Description	Date	By



REPAIR 1 – GANGWAY COVER PLATE  
 2 LOCATIONS

REMOVE EXISTING COVER PLATE AND BEND AT THE LOCATION OF THE RUBBING TO PREVENT CONTINUED RUBBING ON PLATE AS INDICATED IN PHOTO. CLEAN AREAS WHERE GALVANIZING IS DAMAGED OR MISSING AND REPAIR GALVANIZING TO COMPLY WITH ASTM A 780. BEND PLATE SUCH THAT THE END OVER THE DOCK IS APPROXIMATELY PARALLEL TO WALKWAY SURFACE (APPROXIMATELY 2"–3"). GANGWAY COVER PLATE AT SHORELINE SHOWN IN PHOTO



REPAIR 2 – ACCESS RAMP WINCH FRAME  
 1 LOCATION

REMOVE ACCESS RAMP WINCH FRAME. CLEAN AREAS WHERE GALVANIZING IS DAMAGED OR MISSING AND REPAIR GALVANIZING TO COMPLY WITH ASTM A 780, AND WELD RAMP TRUSS FRAME. REPLACE FRAME AND LIGHT SUPPLIED BY DNR.



REPAIR 3 – REINSTALL BOLTS  
 2 LOCATIONS

REPLACE MISSING BOLT WITH SELF-LOCKING HEAD TYPE TO MATCH REMAINING BOLT SIZE AND TYPE. BOLTED CONNECTION AT FINGER 6 SHOWN IN PHOTO. PROVIDE AND INSTALL NEW BOLTS, SIZES AND TYPES AVAILABLE FROM DNR. CLEAN AREAS WHERE GALVANIZING IS DAMAGED OR MISSING AND REPAIR GALVANIZING TO COMPLY WITH ASTM A 780.



RECONNECT BY PLACING GALVANIZED STEEL ANGLES ON SIDE OF THE CONNECTION AND THROUGH BOLTING THROUGH EXISTING HOLES. SEE DETAIL C3.13. DAMAGE BETWEEN FINGER 5 AND 6 SHOWN IN PHOTO.

REPAIR 4 – ADD 5x3x3/8 ANGLES, REINSTALL BOLTS  
SEE SHEET C3.13  
3 LOCATIONS



RECONNECT BY PLACING GALVANIZED ANGLES ON SIDE OF THE CONNECTION AND THROUGH BOLTING THROUGH EXISTING HOLES. SEE DETAIL C3.13.  
DAMAGE AT FINGER 14 – SHOWN IN PHOTO

REPAIR 4 – ADD 5x3x3/8 ANGLES, REINSTALL BOLTS  
SEE SHEET C3.13



Loosen, reposition and refasten existing floats at locations as indicated on the plan. Inspect entire dock structure with DNR personnel to identify additional floats to be refastened. Float BTWN Finger 5 and 6 shown in photo.



Existing float from ShoreMaster literature

CONTRACTOR TO SUPPLY FASTENERS TO MATCH EXISTING. CONTACT DNR FOR SIZE, TYPE, AND FINISH.

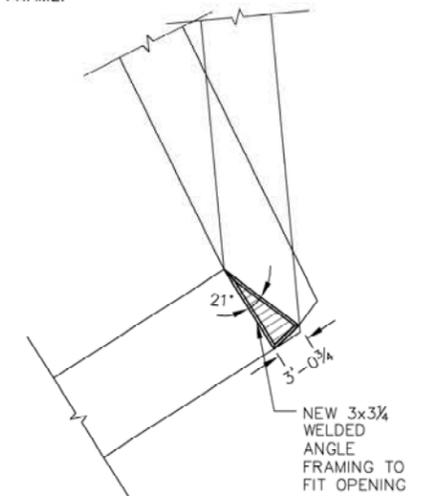
REPAIR 5 – REFASTEN FLOATS  
5 LOCATIONS



REPAIR 6 – INFILL RAMP TO DOCK DECK  
1 LOCATION

PROVIDE TEMPORARY STRUCTURE TO MAINTAIN ACCESS UNTIL INFILL IS COMPLETED.

REPLACE ADDITIONAL CONCRETE DECK AT INTERSECTION WITH THE DOCKS AND ACCESS RAMP DUE TO CHANGE IN ANGLE AFTER REPOSITIONING. FIELD MEASURE OPENING AND SUBMIT SHOP DRAWING OF WELDED L3x3x3/8 FRAME TO FIT OPENING FOR APPROVAL. BOLT NEW WELDED FRAME ALONG PERIMETER OF OPENING. ADDITIONAL MEMBERS MAY BE NECESSARY TO SUPPORT CONCRETE PANEL DECK. CUT DECK PANELS PROVIDED BY DNR TO FIT NEW WELDED FRAME.

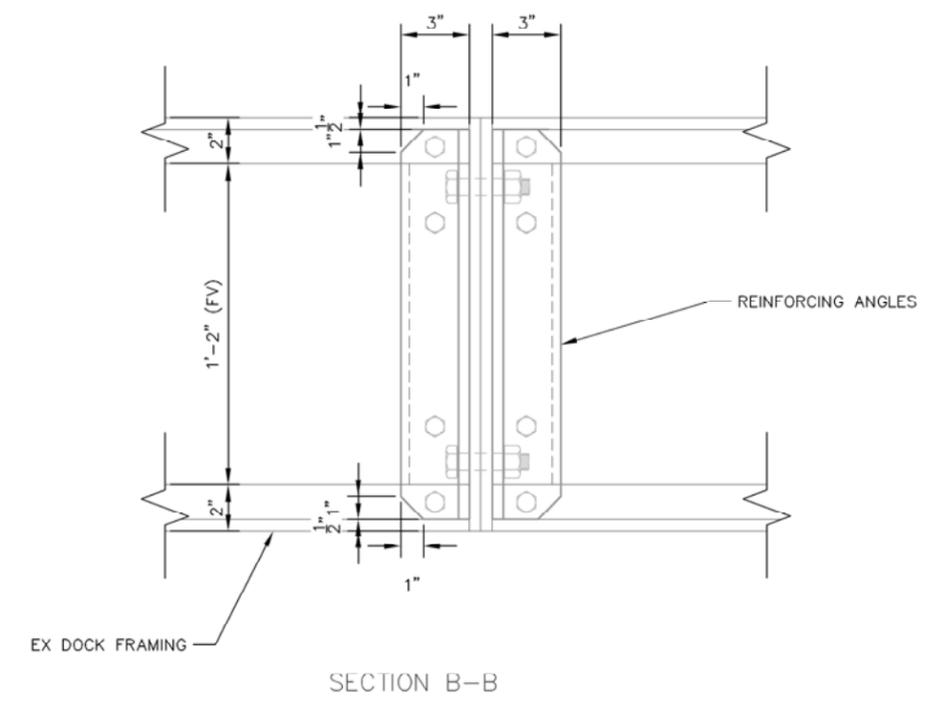
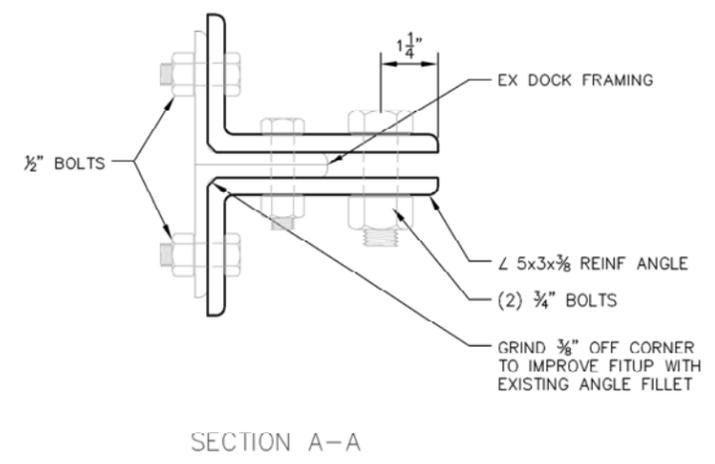
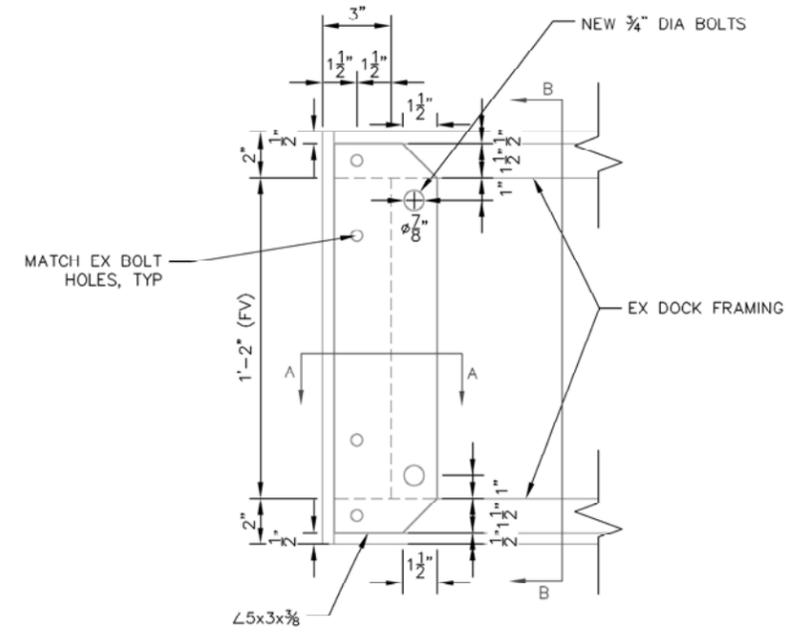


Project Description  
**EXISTING DOCK REPAIR DETAILS**

HONEY CREEK RESORT DNR NO. 15-05-04-07  
DOCK IMPROVEMENTS REBID  
APPANOOSE COUNTY, IOWA  
P. 131280.DRAWINGS.CIVIL.13280.ZZ-01 P.ENG. 5/4/2015 2:50 PM DAVE SCHMIDT

Rev	Description	Date	By

- NOTES:
1. FIELD MEASURE EXISTING TRUSS FRAMES TO VERIFY DIMENSIONS.
  2. OVERSIZE HOLES TO ALLOW FIT-UP.
  3. FABRICATE MOCKUP SAMPLE TO VERIFY DIMENSIONS, HOLE SIZES, AND CLEARANCES PRIOR TO GALVANIZING. INSTALL MOCKUP TO VERIFY FIT-UP.
  4. HOT-DIP GALVANIZE AFTER FABRICATION



REPAIR 4

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**EXISTING DOCK REPAIR DETAILS**  
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 P:\13\280\DRAWINGS\CIVIL\13280\_ZZ-01\_P.DWG 5/12/2015 2:51 PM DAVE SCHWARZ

Rev	Description	Date	By

Sheet No. **C3.13**  
 Project No: 13280