

Madison, Wisconsin

CITY OF MADISON

CITY ENGINEERING DIVISION

DEPARTMENT OF PUBLIC WORKS

PLAN OF PROPOSED IMPROVEMENT

WARNER BOAT LAUNCH BREAKWATER RECONSTRUCTION

CITY PROJECT NO. 10990
CONTRACT NO. 7877

PUBLIC IMPROVEMENT PROJECT APPROVED

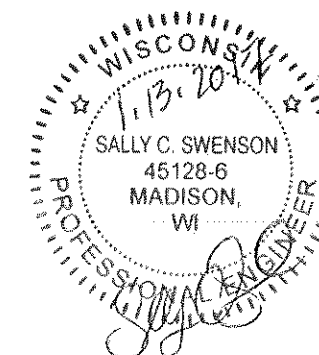
JANUARY 3, 2017

BY THE COMMON COUNCIL
OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN
APPROVED BY:

Christy Prohman 1-13-17
City Engineer Date

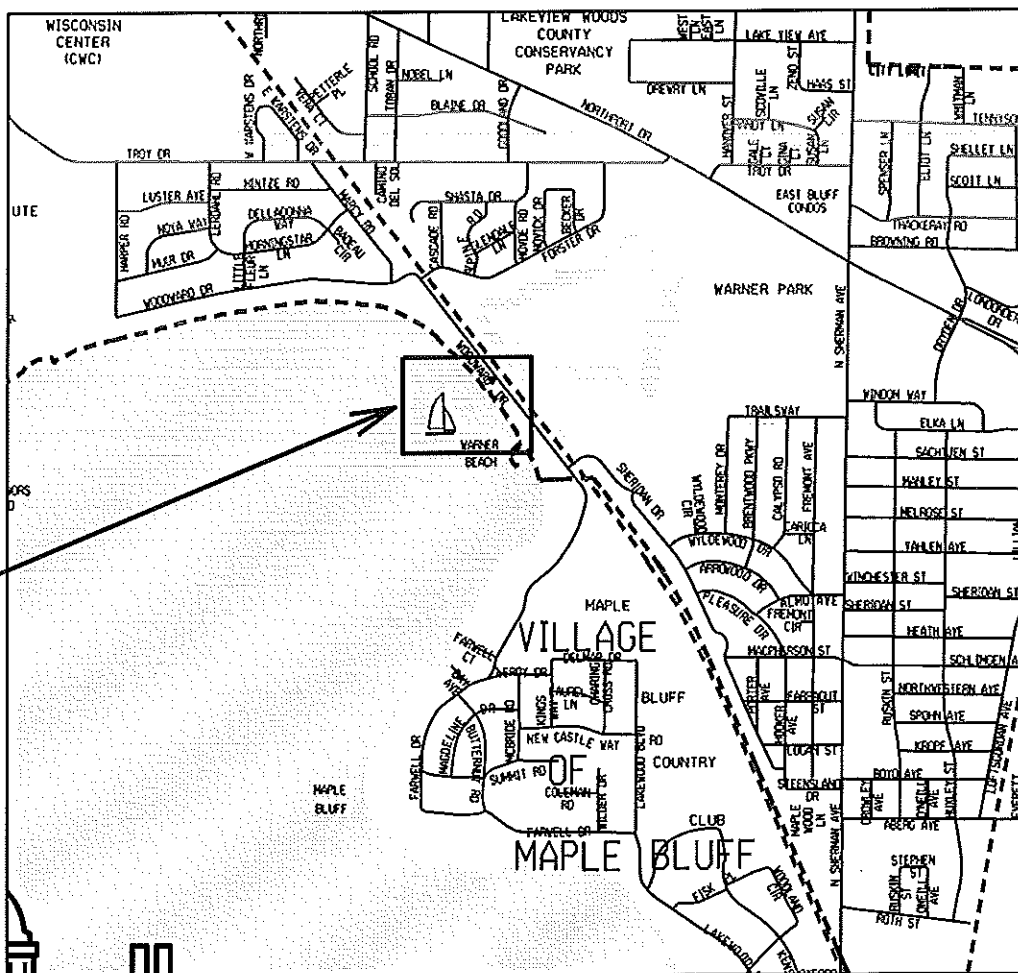
STORM SEWER DESIGNED BY:



INDEX OF SHEETS

SHEET NO. E1	EXISTING CONDITIONS
SHEET NO. P1	RECONSTRUCTION PLAN
SHEET NO. D1-D3	DETAILS
SHEET NO. X1-X4	BREAKWATER CROSS-SECTIONS
SHEET NO. X5-X9	DREDGING CROSS-SECTION

PROJECT
LOCATION



CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— C —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□

PLOT SCALE: _____

PLOT NAME: _____

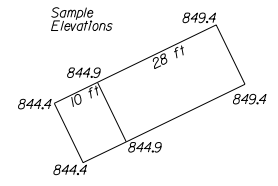
REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

2013 survey vertical datum is NAVD 88(1991).
 USGS lake level gage is in NGVD29 datum.
 Subtract 0.2 ft from NGVD29 elevation to get NAVD 88(1991) elevation.

Concrete Boat Launch Ramps:

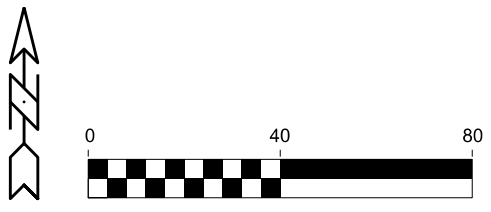
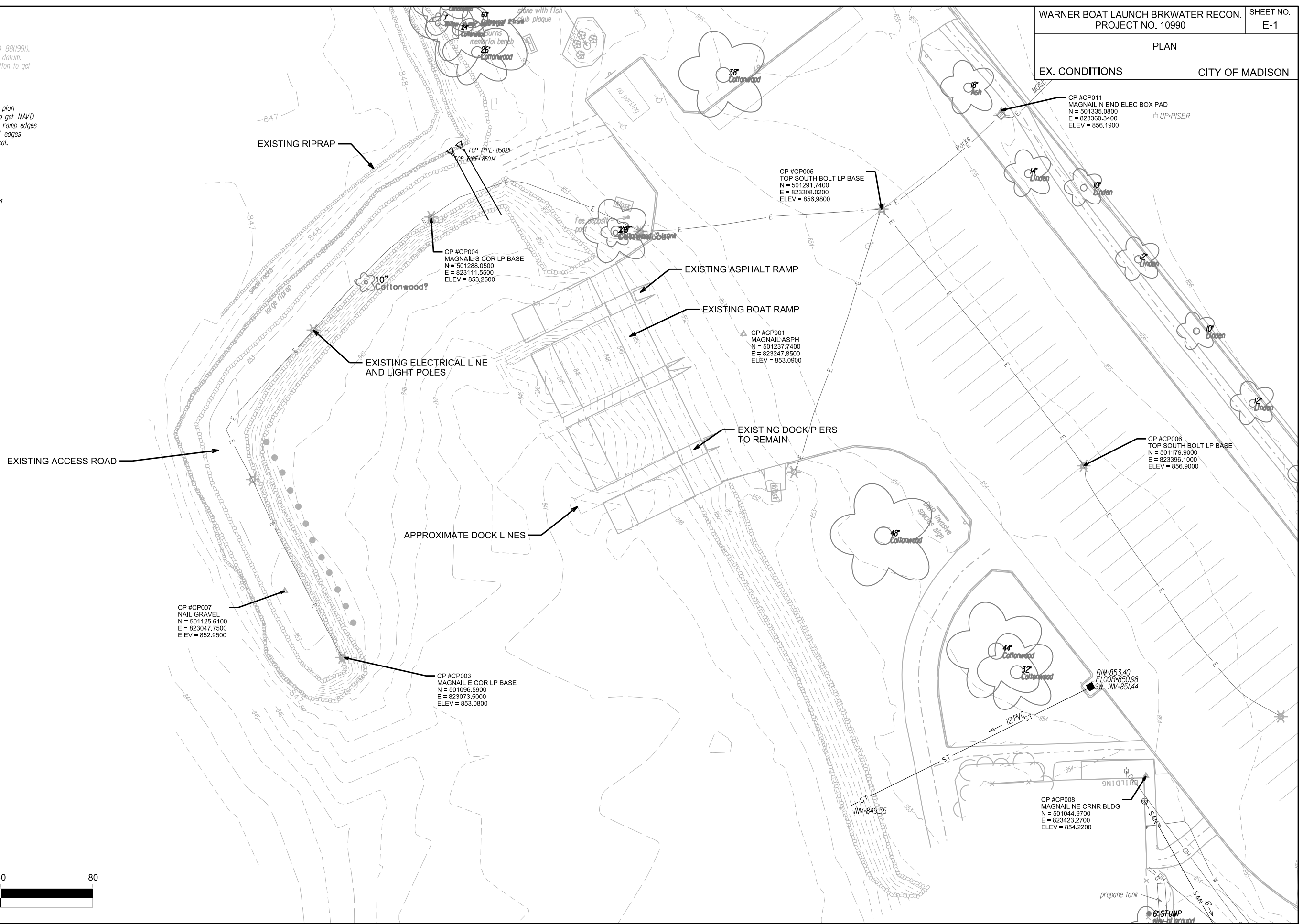
Dimensions from 1986 construction plan (subtracted 0.2ft from plan elevs to get NAVD 88(1991) elevs) are basis for approx ramp edges shown (level E_RDWY_Approx). Found edges generally agree to within 0.1ft vertical.

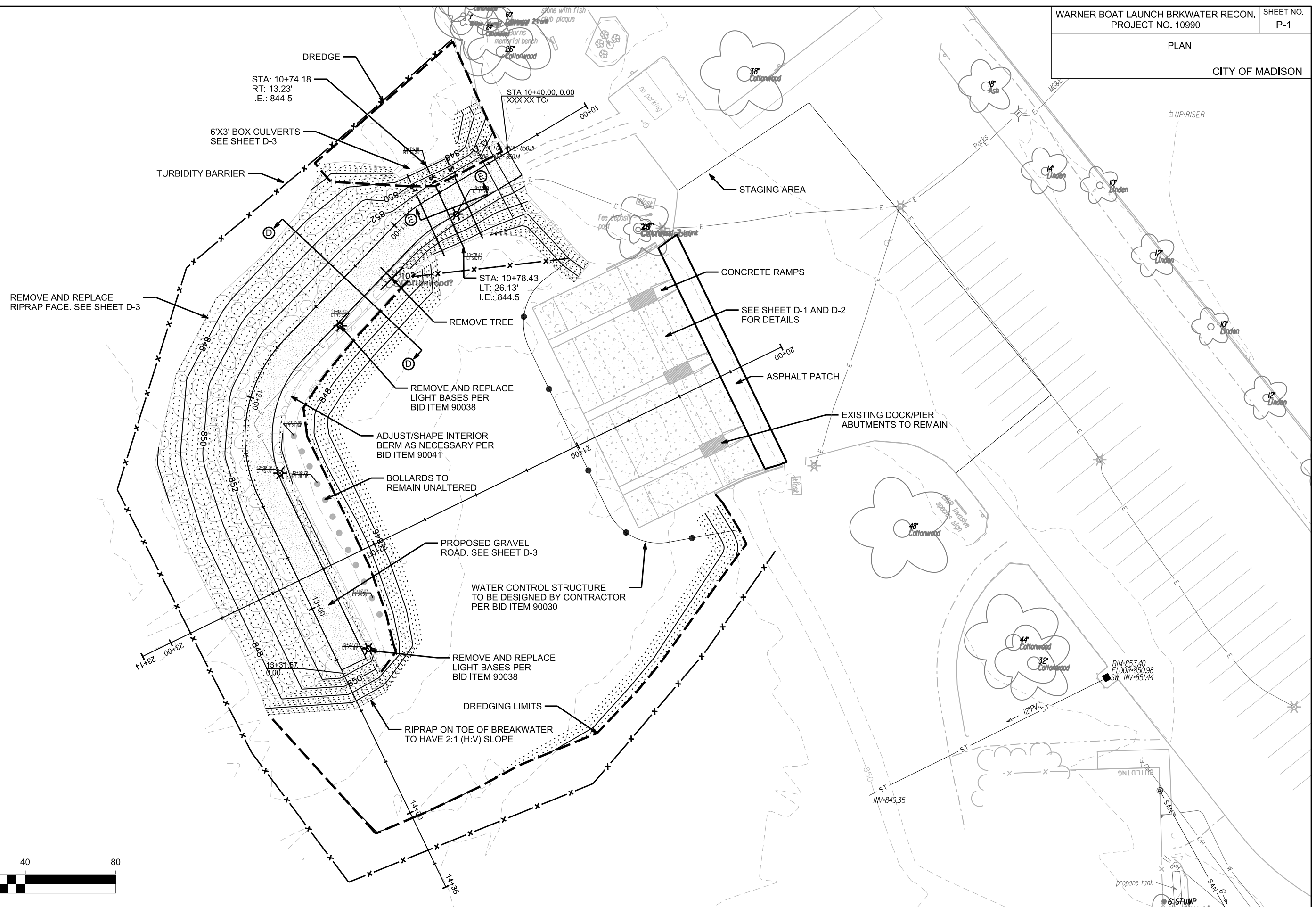


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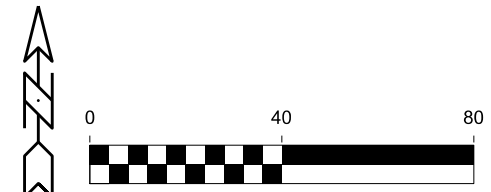


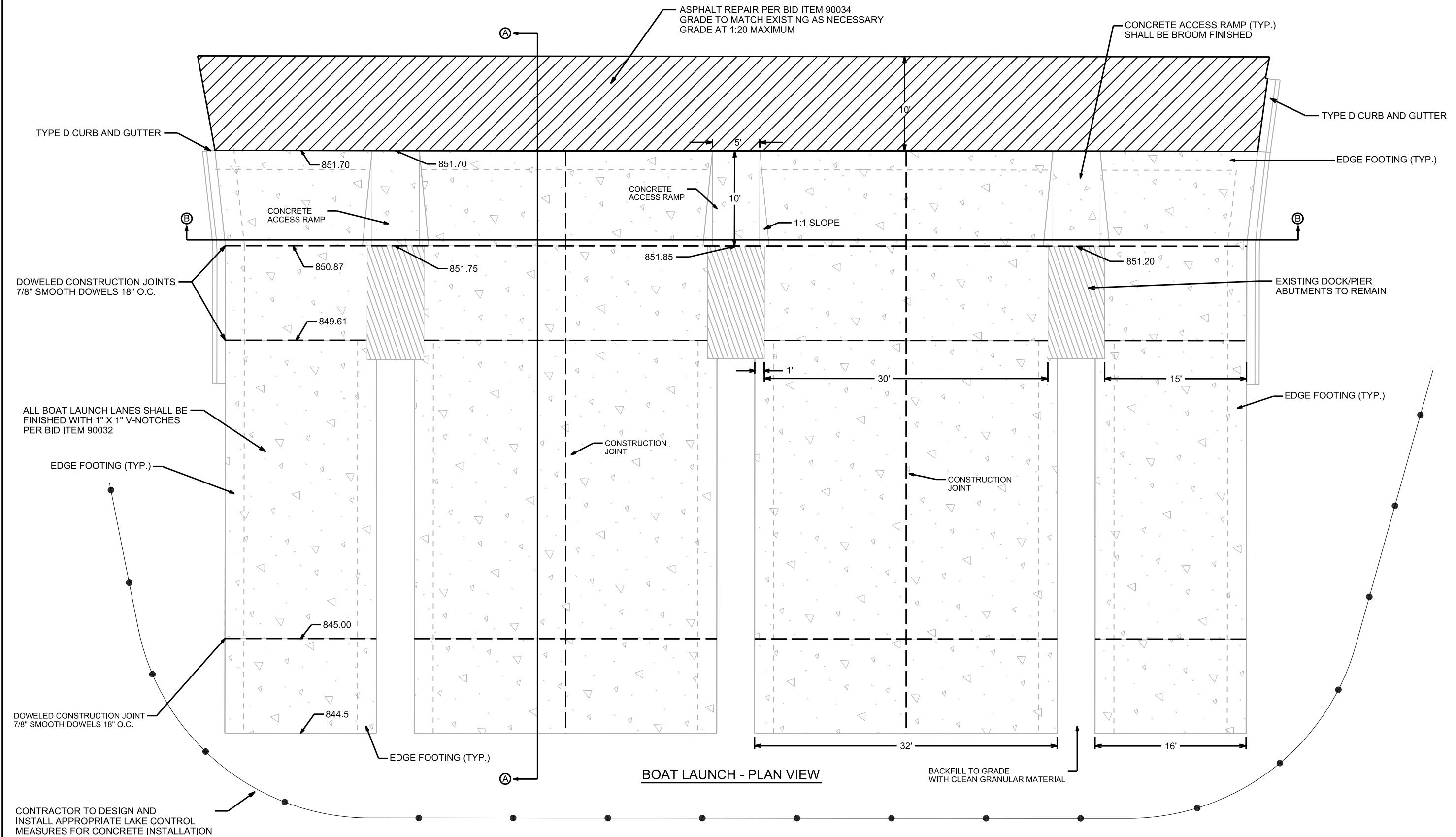
PLOT SCALE: _____

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PLOT SCALE: _____

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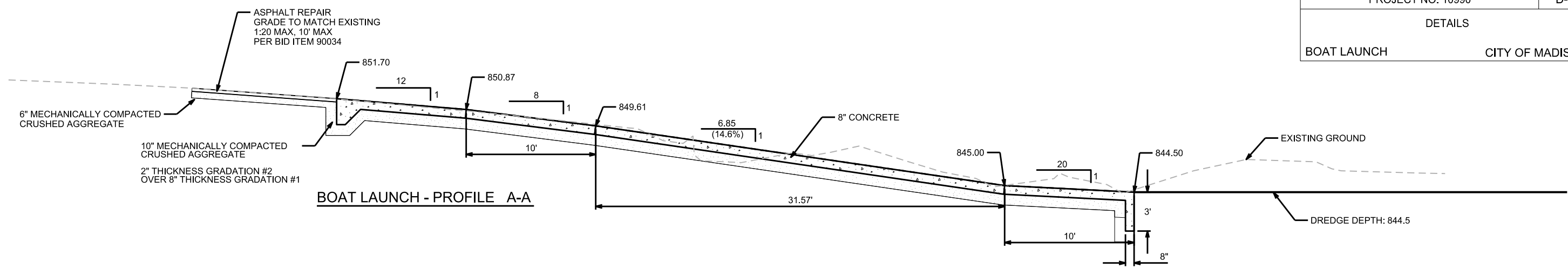
CONTRACTOR TO DESIGN AND
INSTALL APPROPRIATE LAKE CONTROL
MEASURES FOR CONCRETE INSTALLATION

ALL BOAT LAUNCH LANES SHALL BE
FINISHED WITH 1" X 1" V-NOTCHES
PER BID ITEM 90032

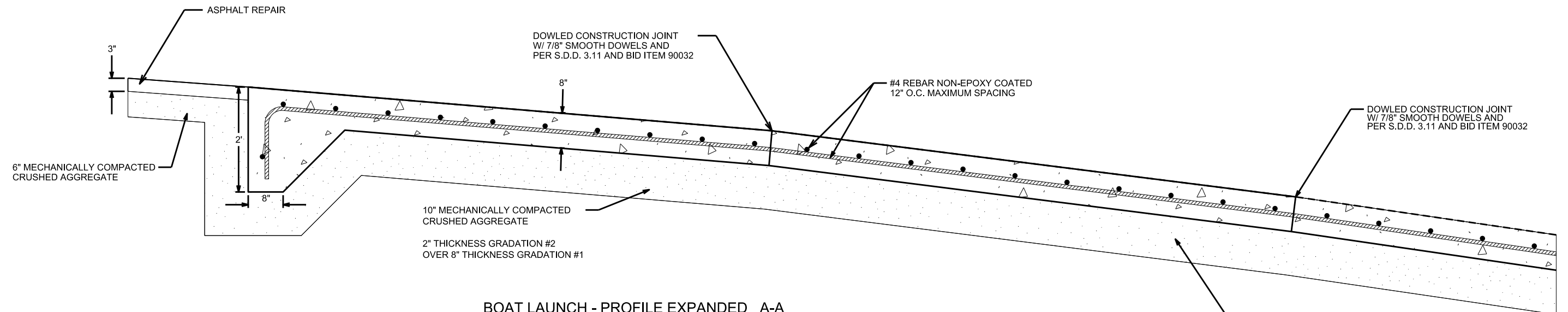
DOWELED CONSTRUCTION JOINTS
7/8" SMOOTH DOWELS 18" O.C.

BOAT LAUNCH - PLAN VIEW

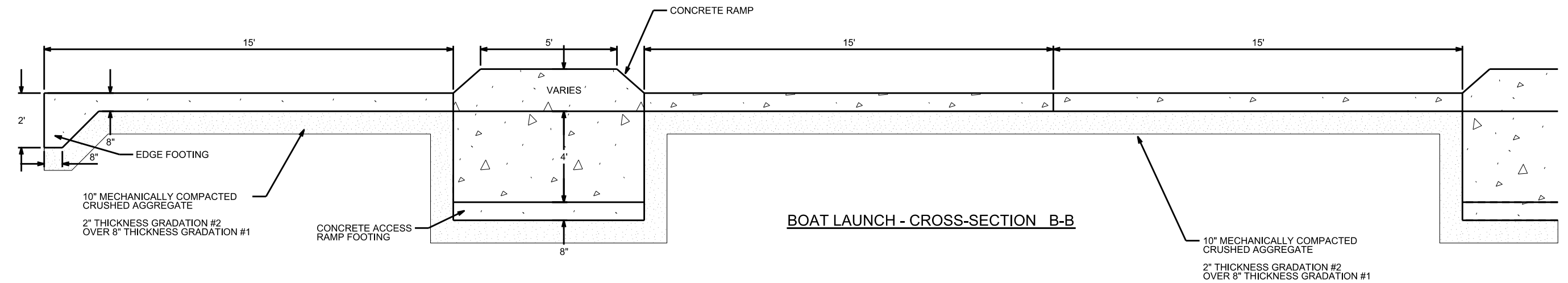
BACKFILL TO GRADE
WITH CLEAN GRANULAR MATERIAL



BOAT LAUNCH - PROFILE A-A

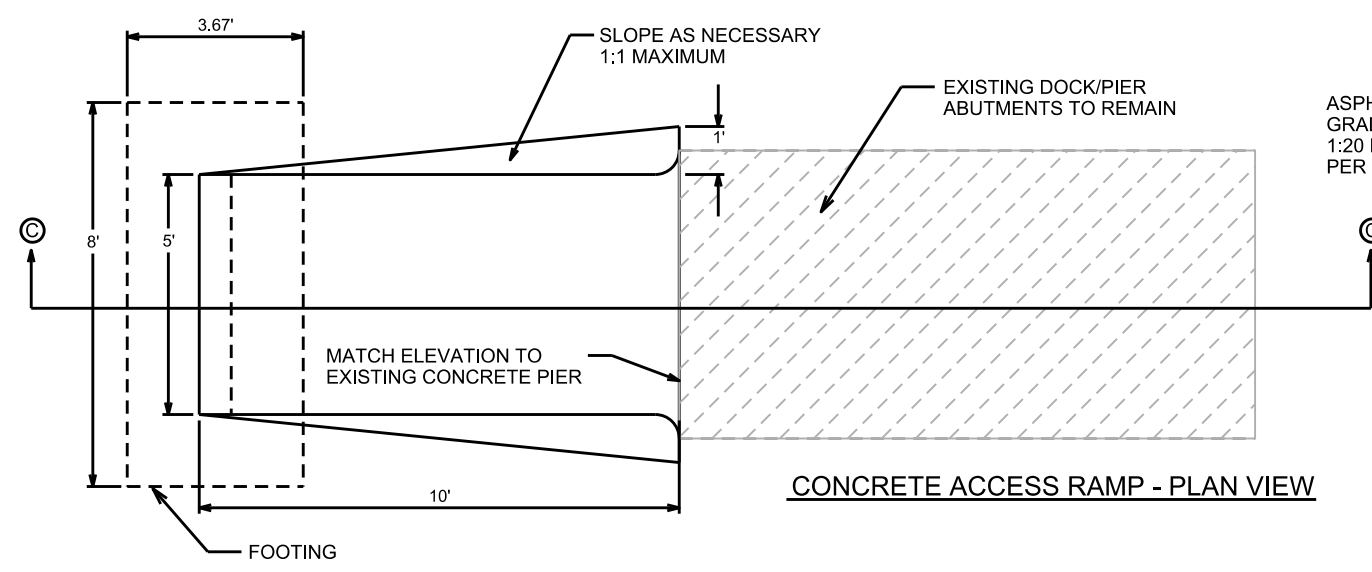


BOAT LAUNCH - PROFILE EXPANDED A-A



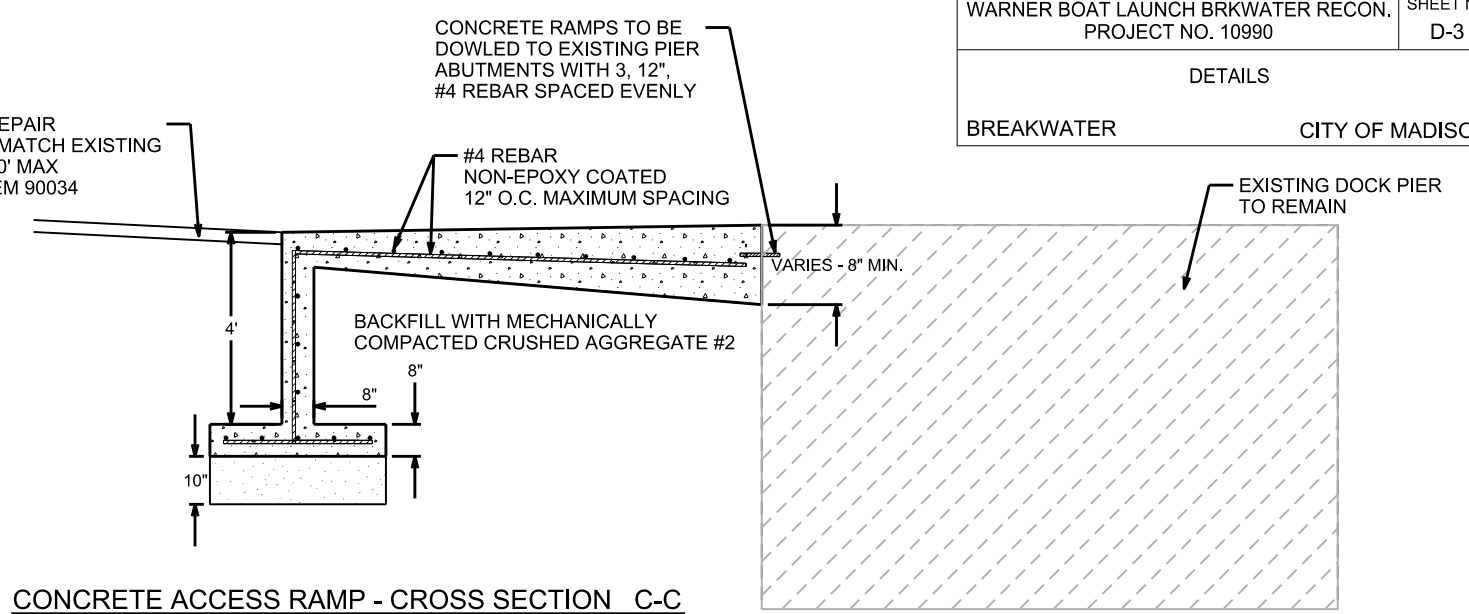
BOAT LAUNCH - CROSS-SECTION B-B

PLOT SCALE: _____
 PLOT NAME: _____
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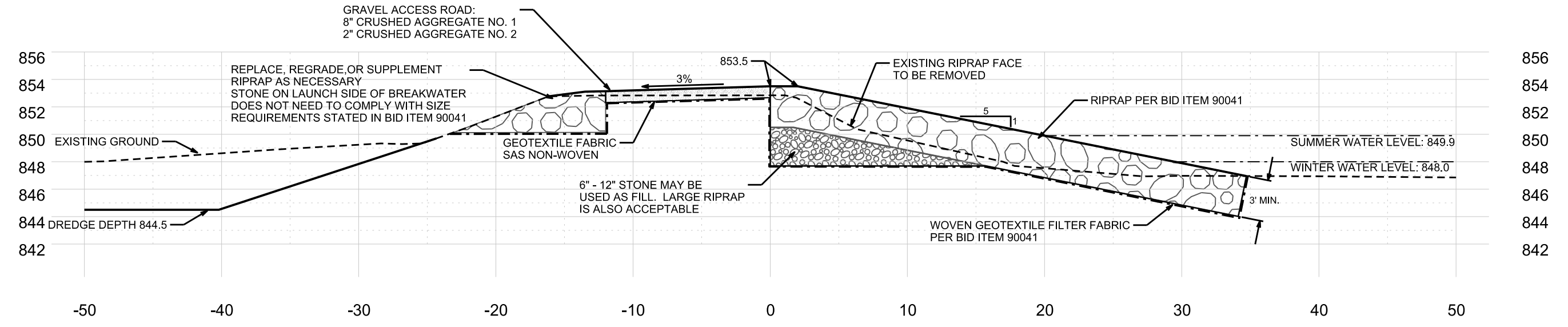


CONCRETE ACCESS RAMP - PLAN VIEW

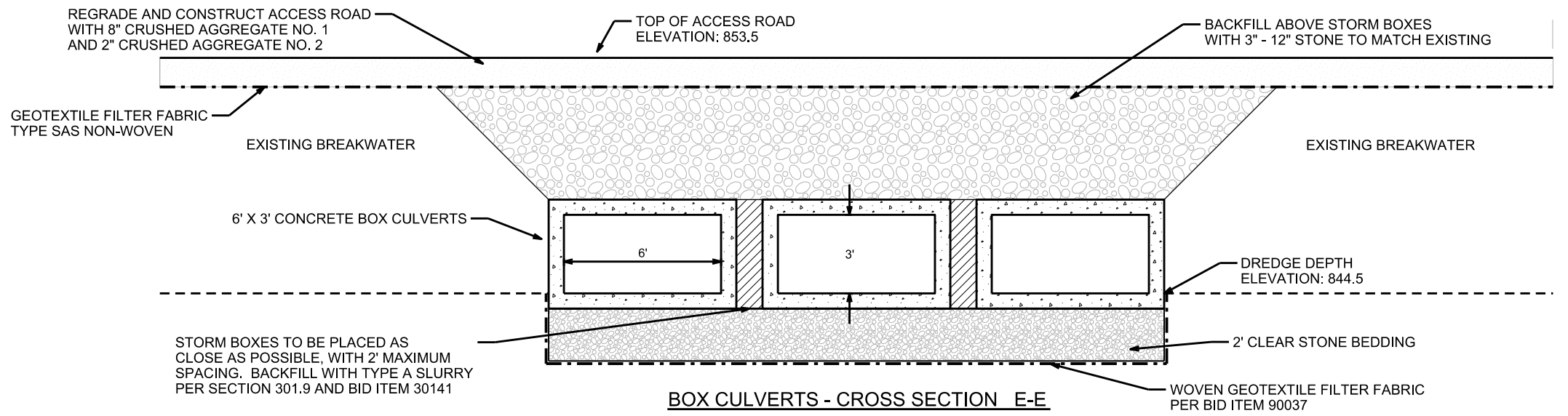
ASPHALT REPAIR
 GRADE TO MATCH EXISTING
 1:20 MAX, 10' MAX
 PER BID ITEM 90034



CONCRETE ACCESS RAMP - CROSS SECTION C-C



BREAKWATER - CROSS SECTION D-D



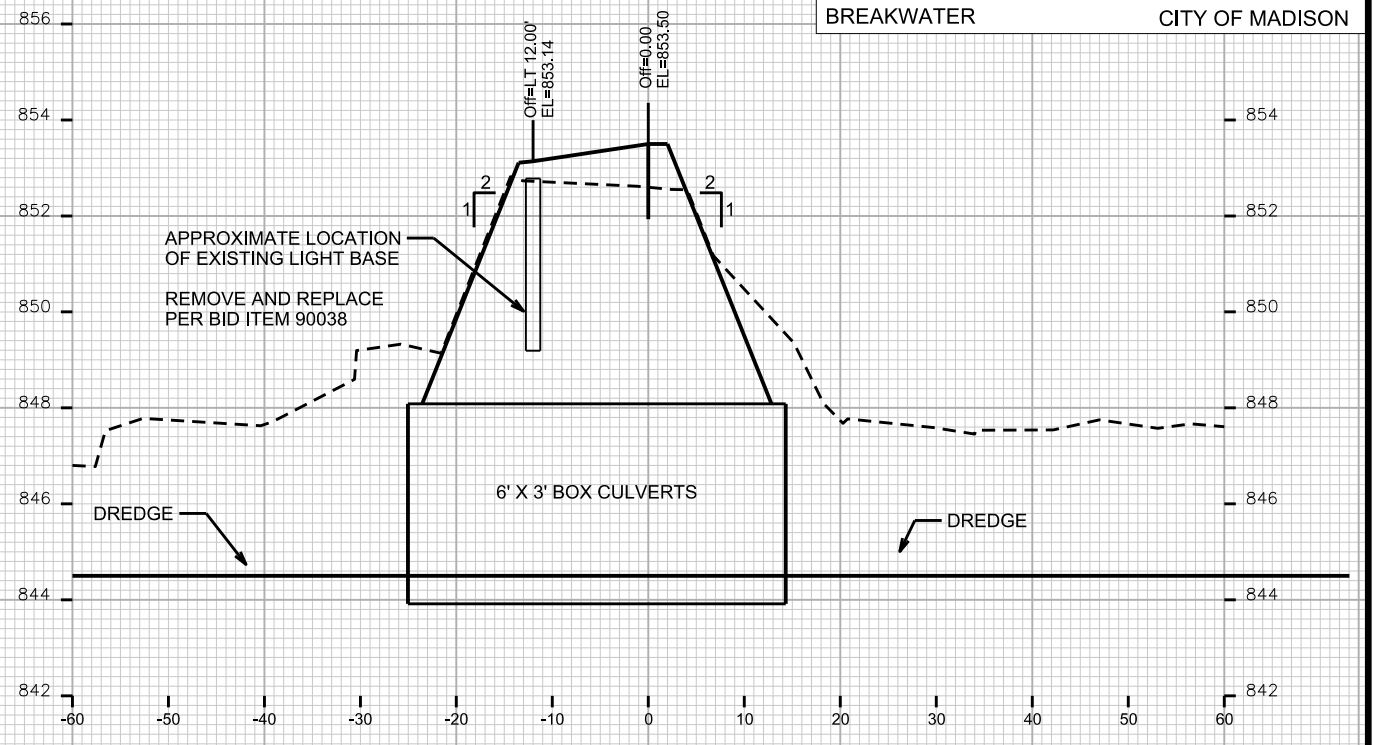
BOX CULVERTS - CROSS SECTION E-E

PLOT SCALE: _____
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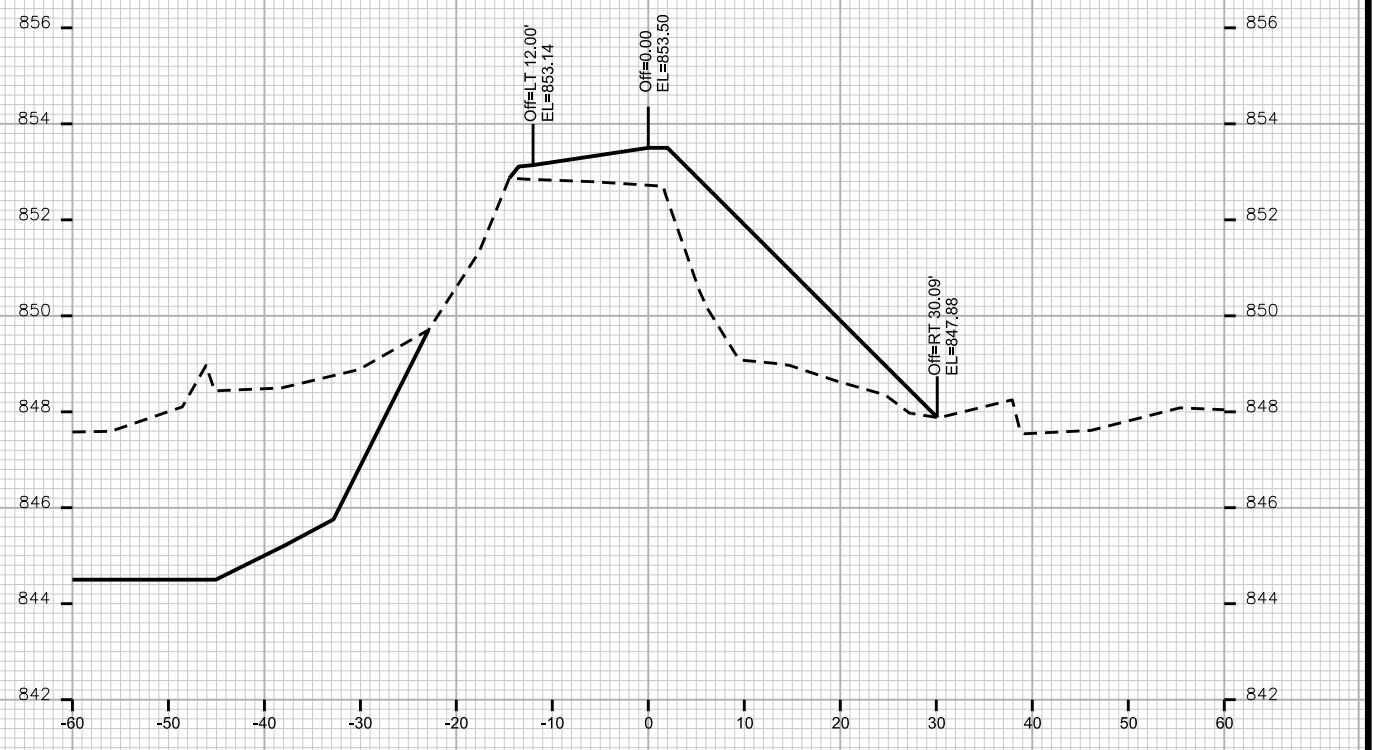
CROSS SECTIONS

BREAKWATER

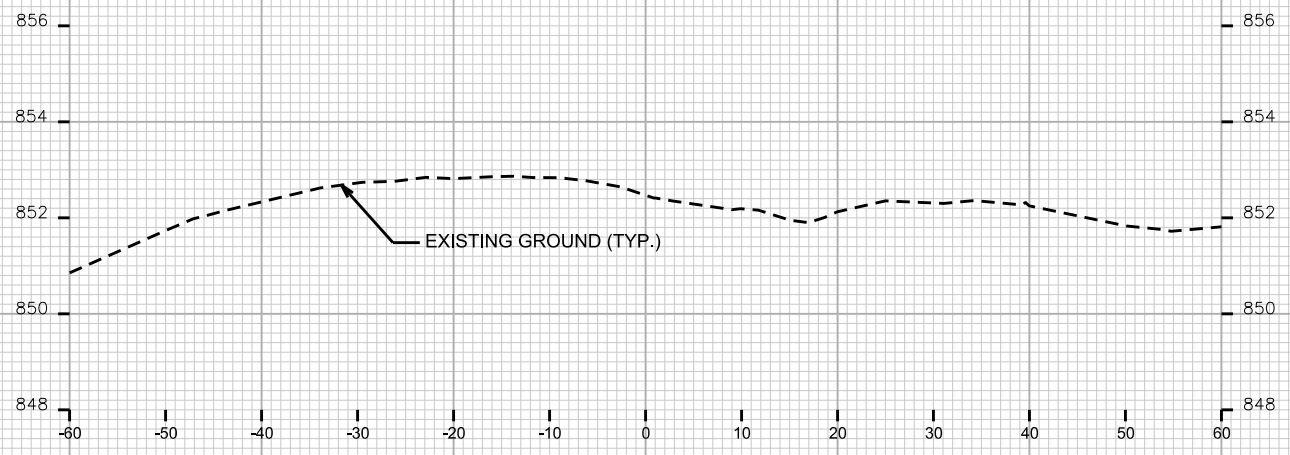
CITY OF MADISON



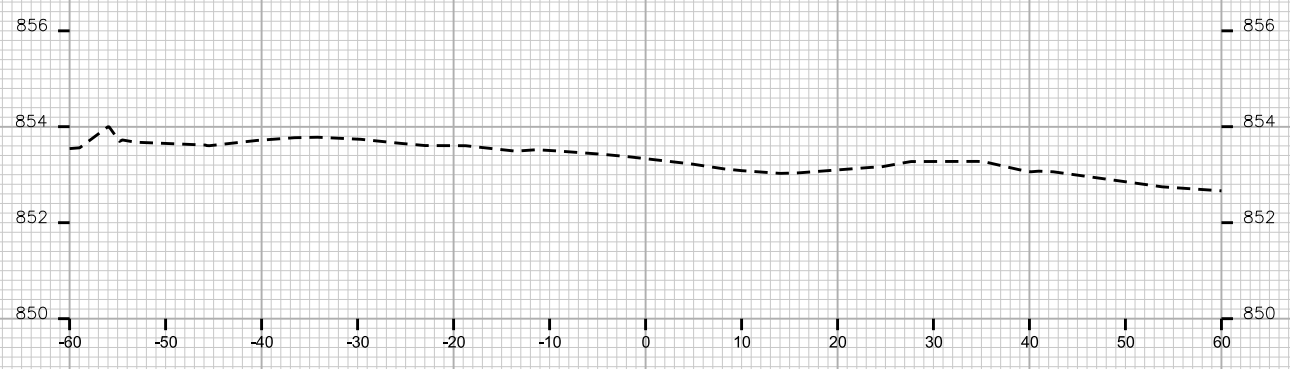
STA. 10+75



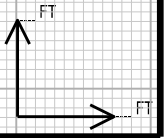
STA. 10+50



STA. 10+25



STA. 10+00



PLOT SCALE: _____

PLOT NAME: _____

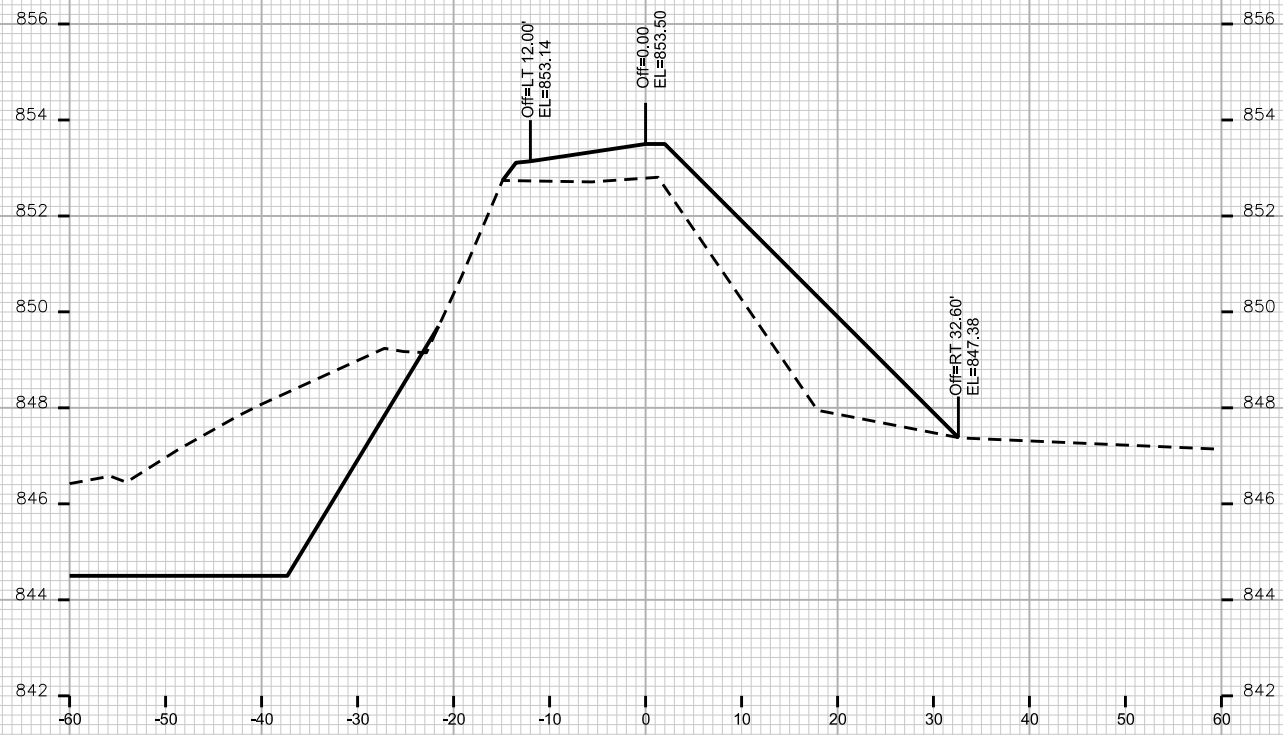
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION

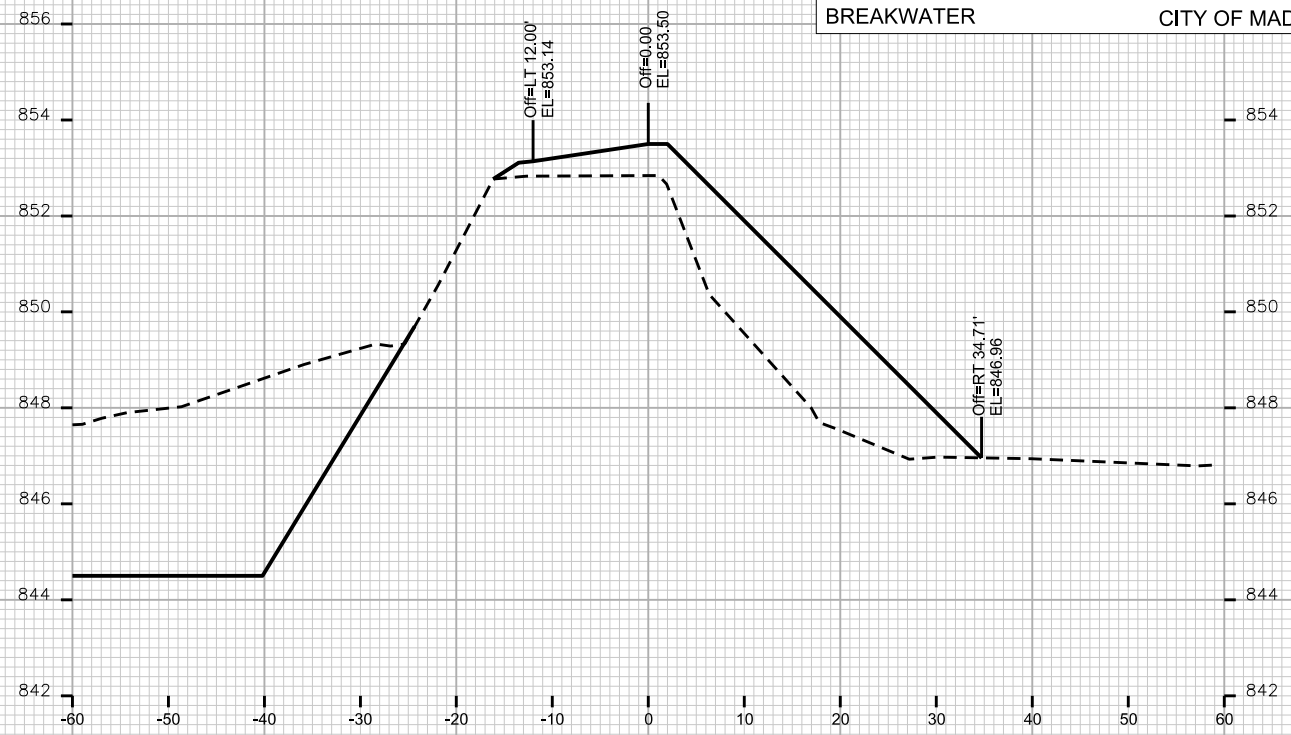
CROSS SECTIONS

BREAKWATER

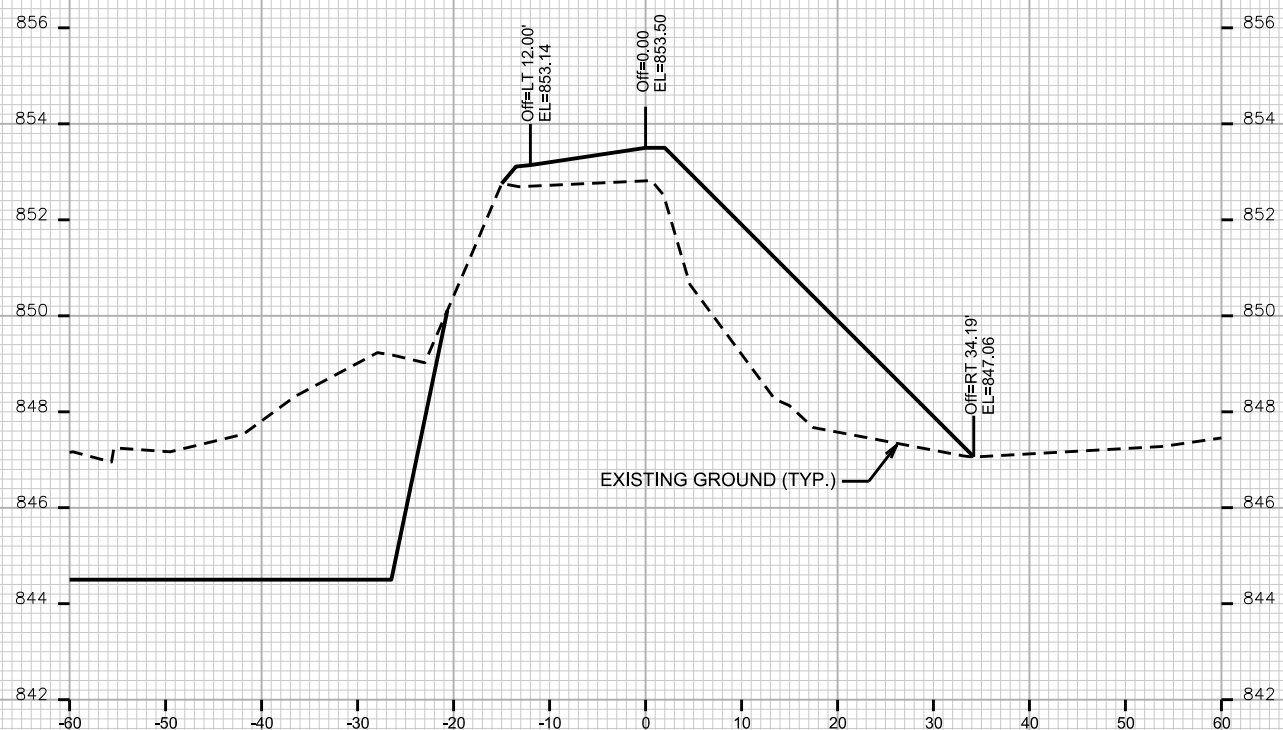
CITY OF MADISON



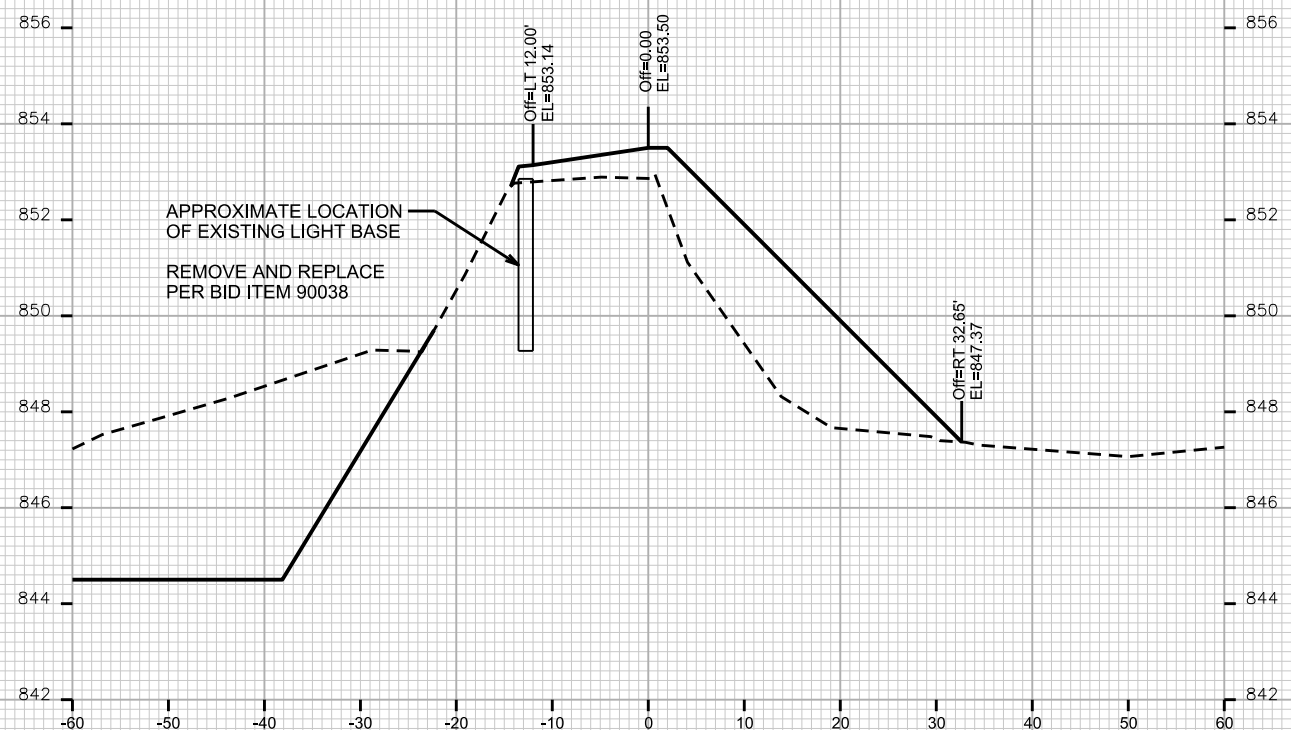
STA. 11+25



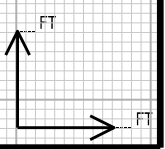
STA. 11+75



STA. 11+00



STA. 11+50



PLOT SCALE: _____

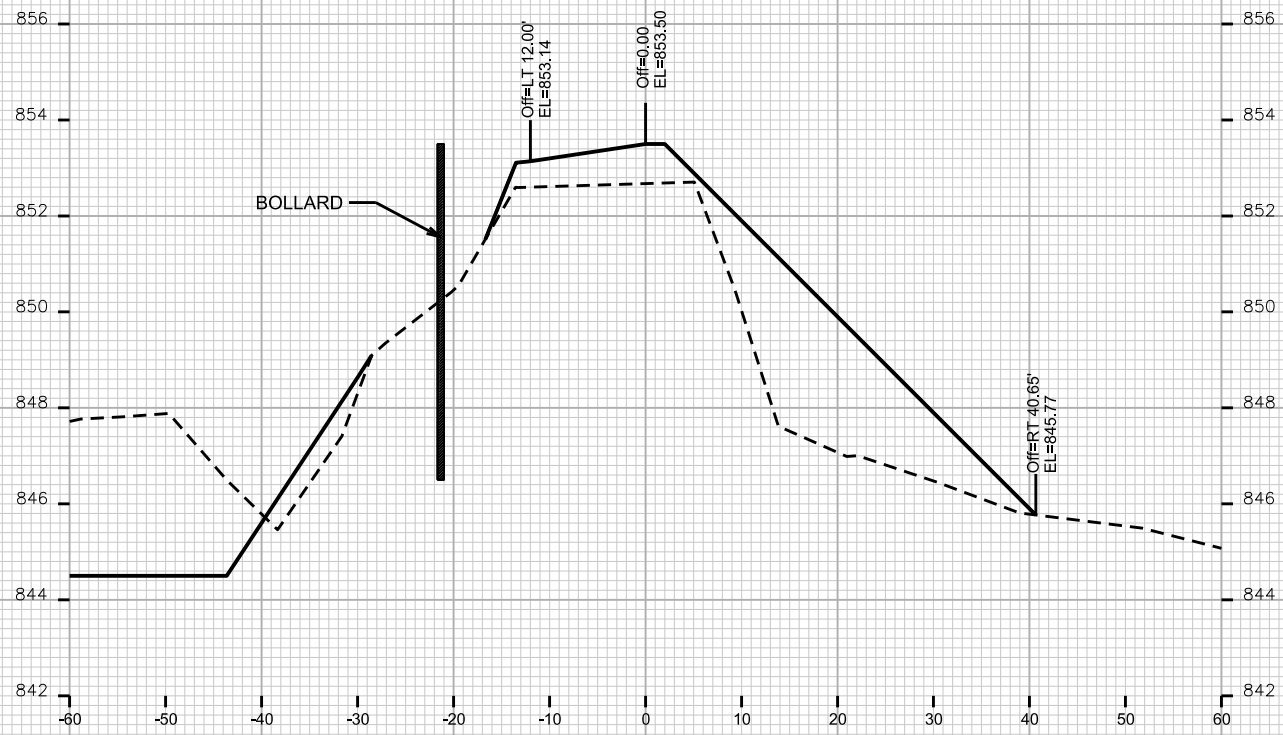
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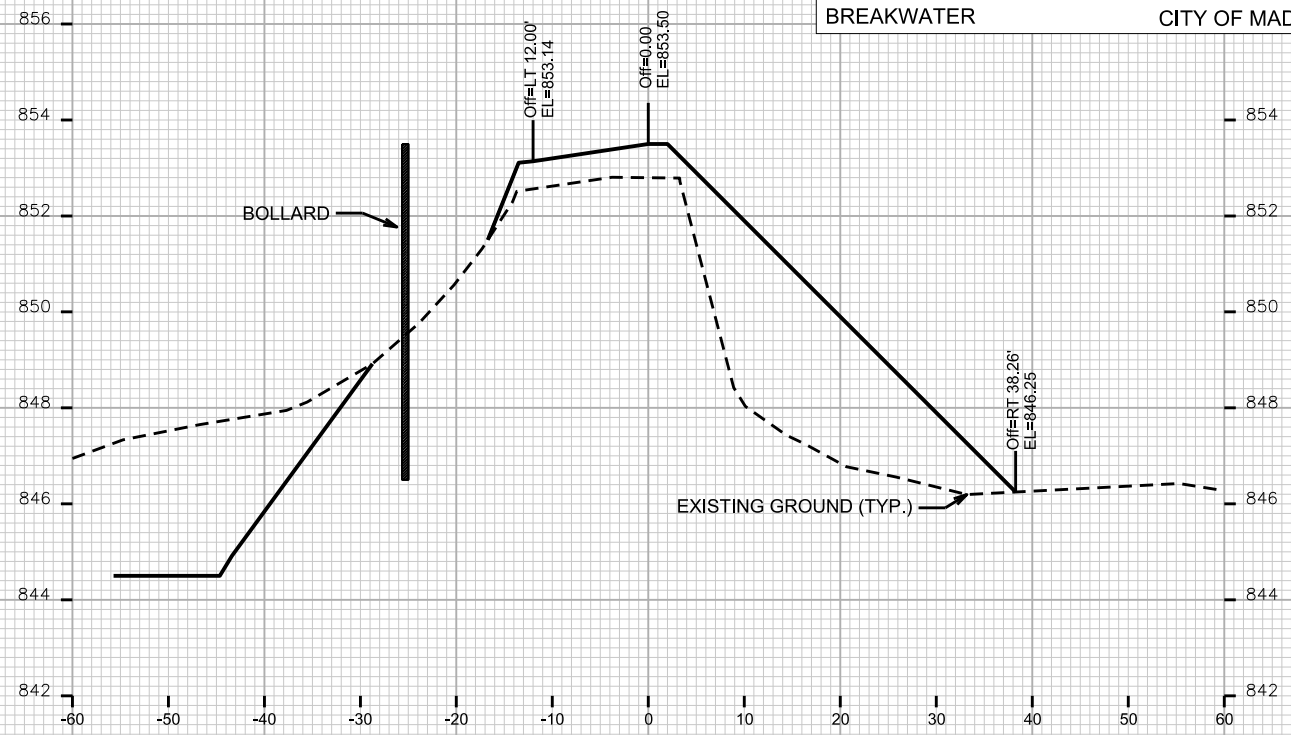
CROSS SECTIONS

BREAKWATER

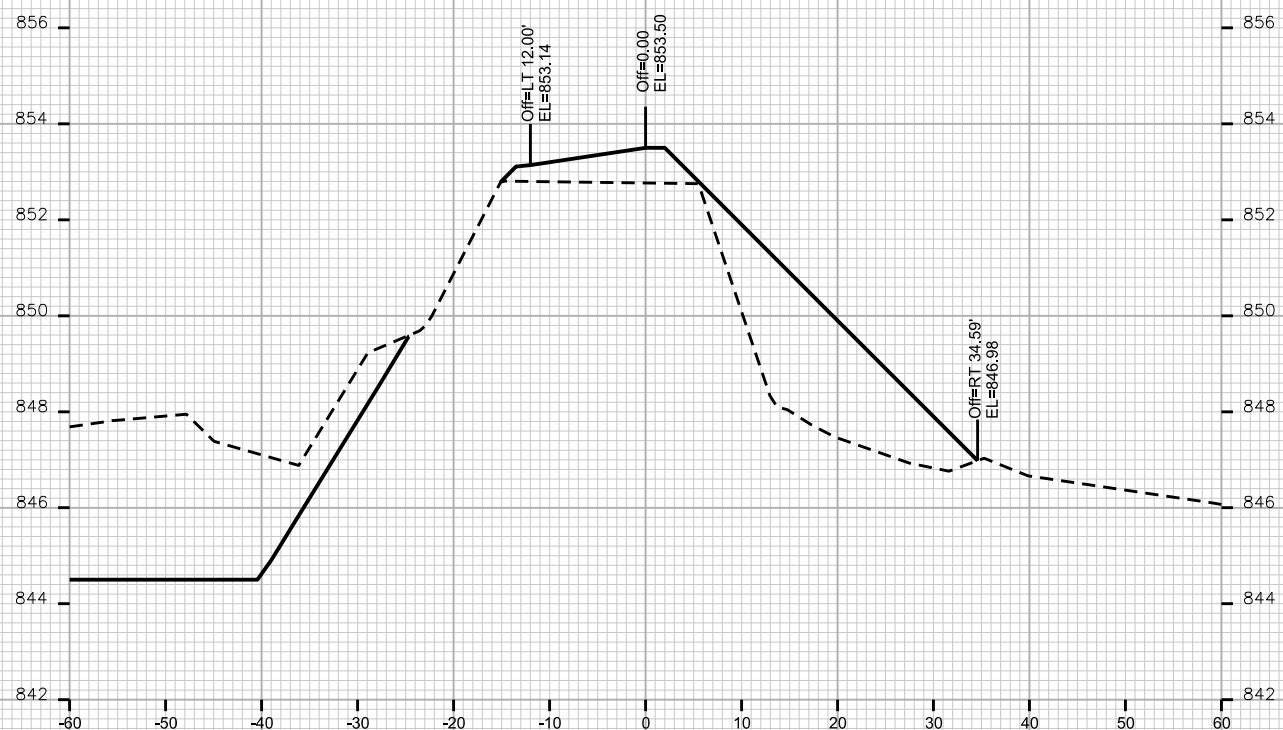
CITY OF MADISON



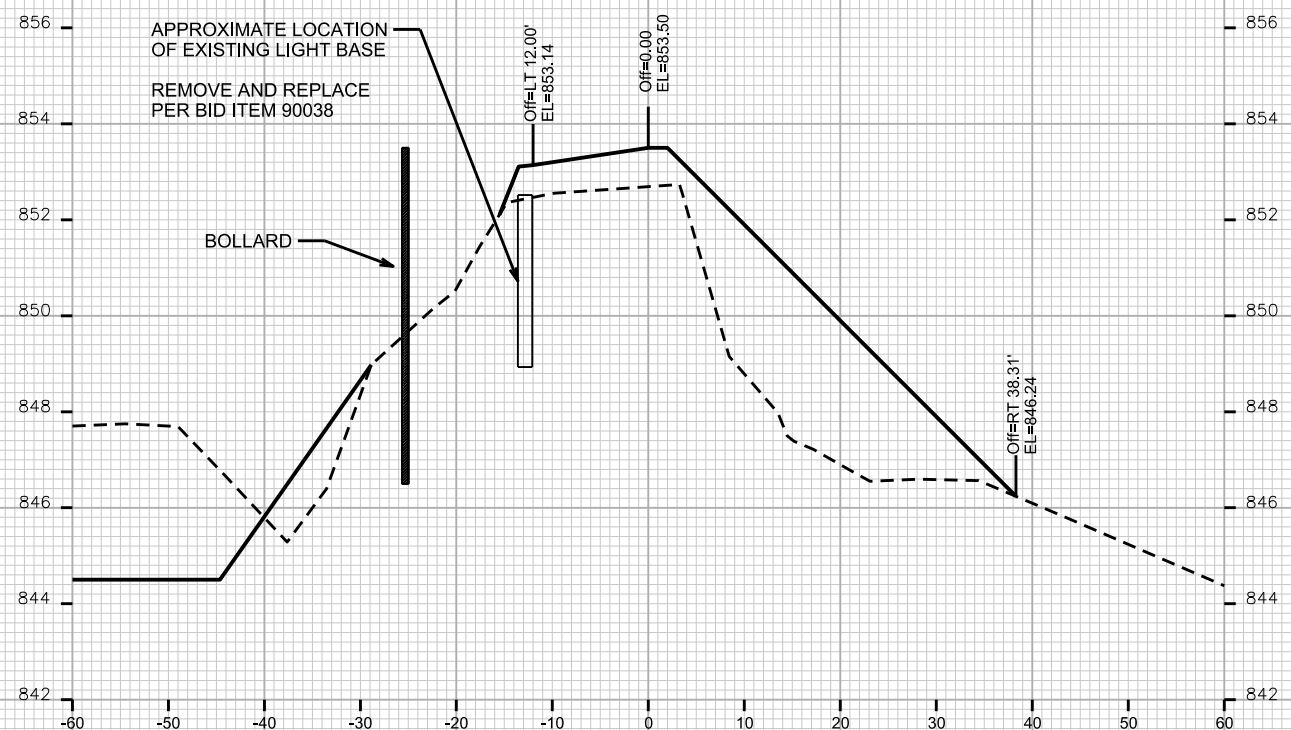
STA. 12+25



STA. 12+75



STA. 12+00



STA. 12+50

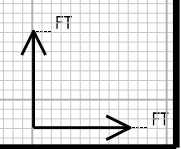
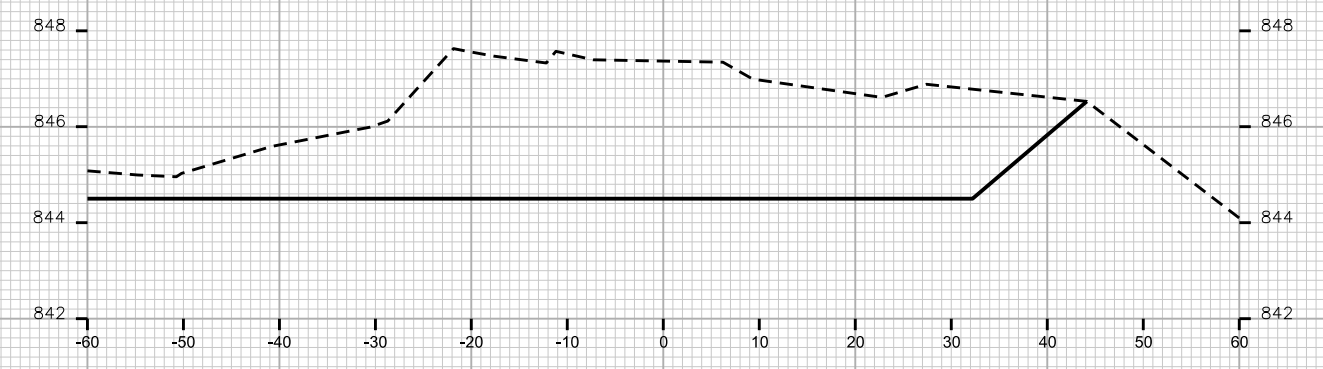
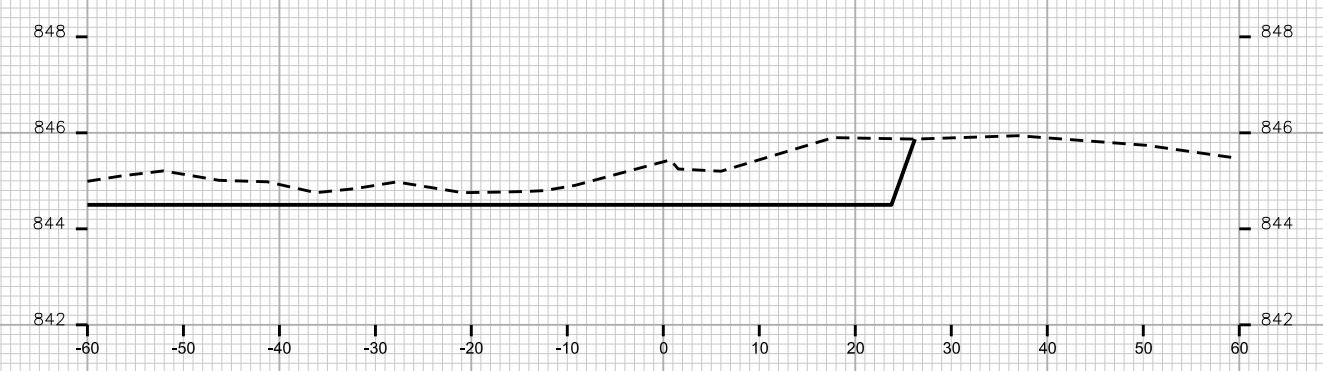
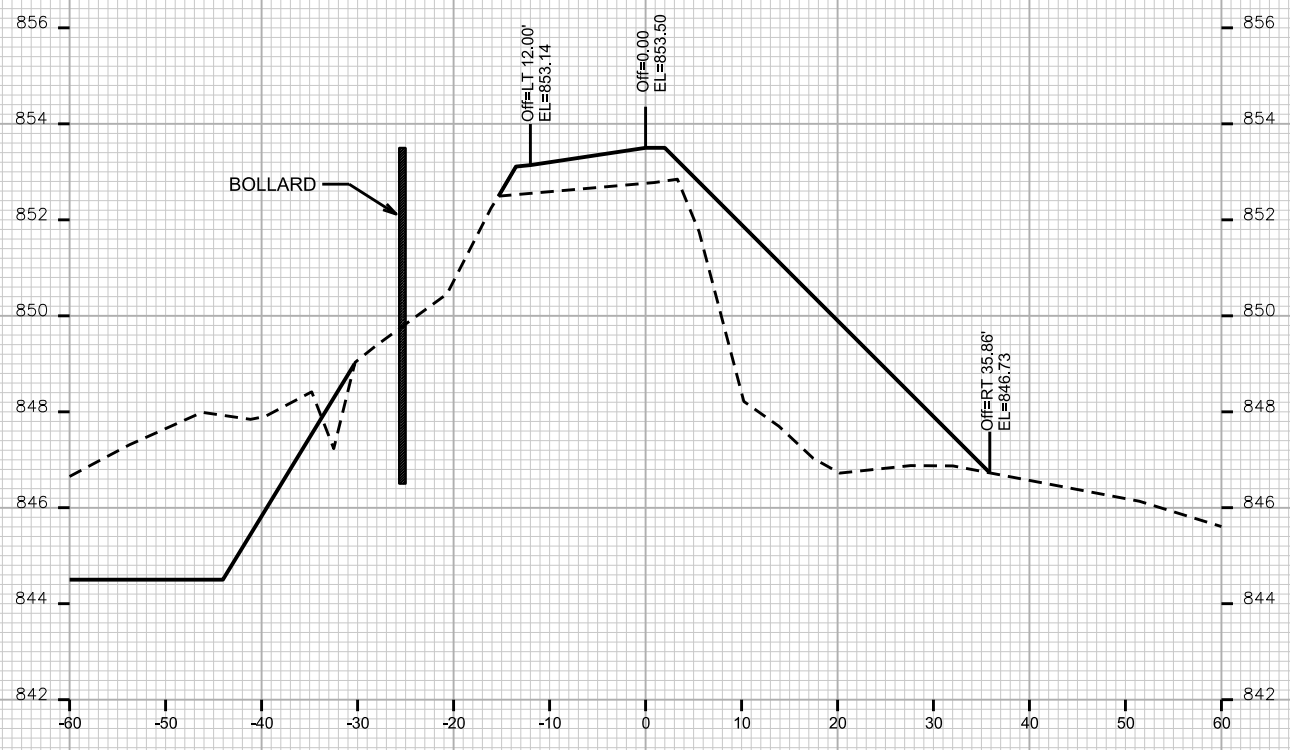
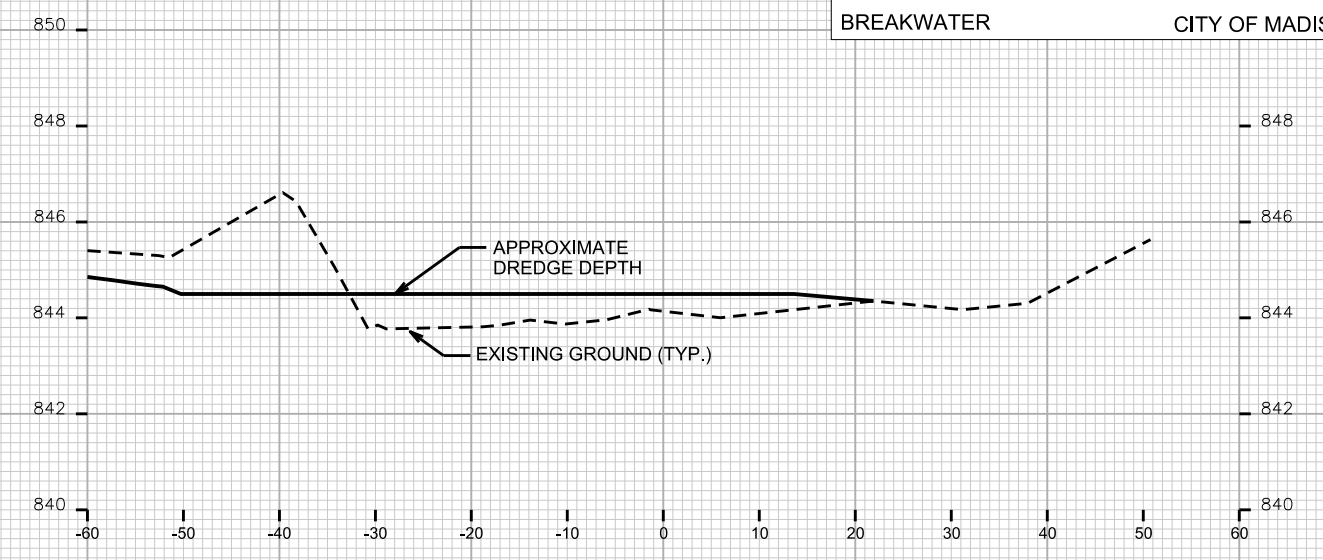


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CROSS SECTIONS
BREAKWATER CITY OF MADISON



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CROSS SECTIONS

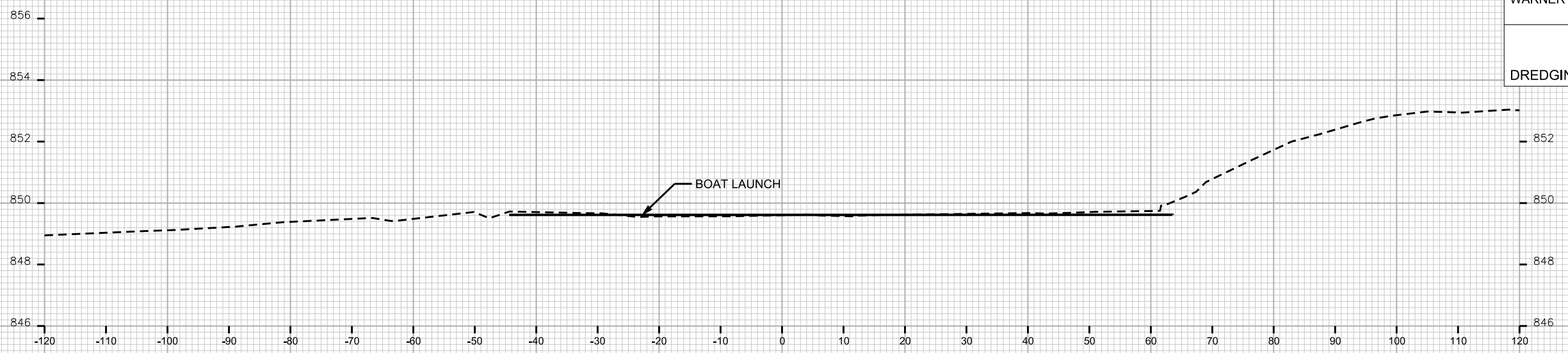
DREDGING CITY OF MADISON

PLOT SCALE: _____

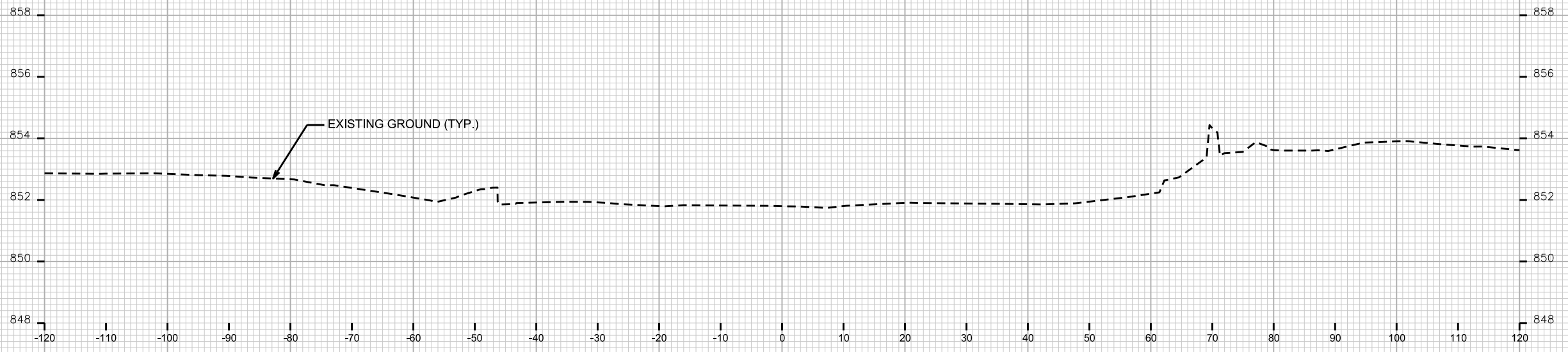
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REV. DATE: _____

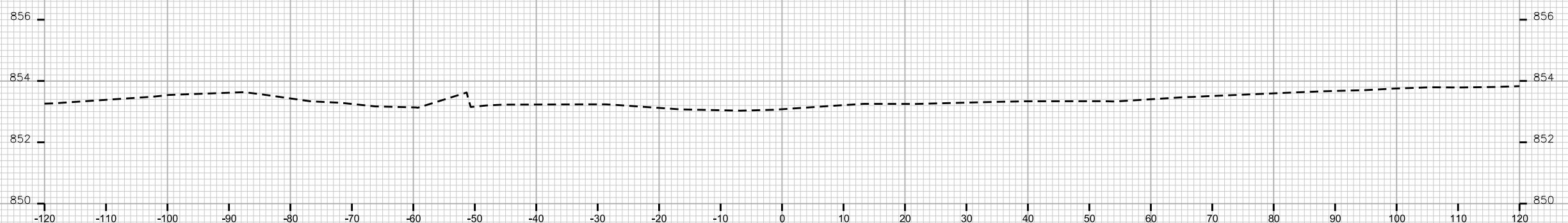
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 20+50



STA. 20+25



STA. 20+00



CROSS SECTIONS

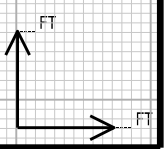
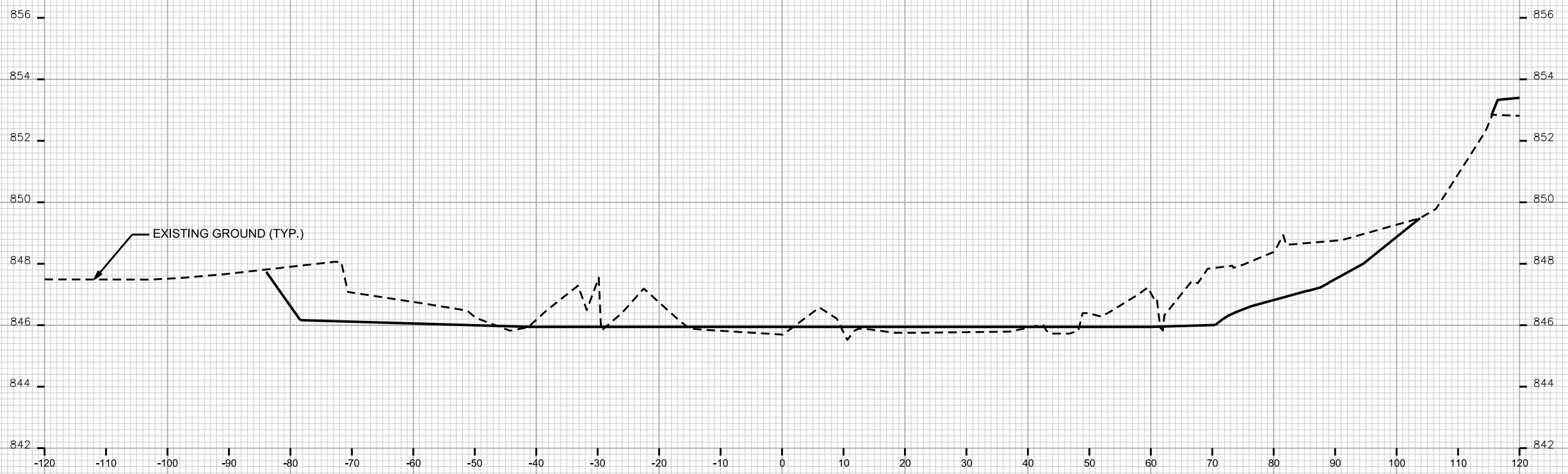
DREDGING

CITY OF MADISON

PLOT SCALE: _____
PLOT NAME: _____

REV. DATE: _____

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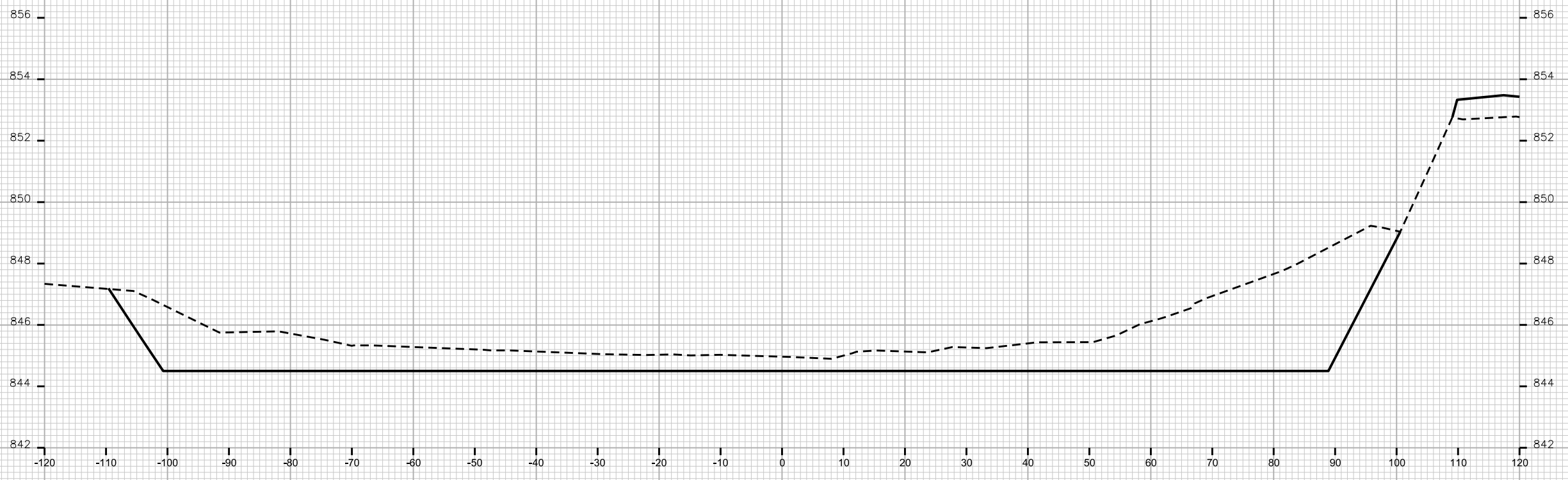
CROSS SECTIONS

DREDGING

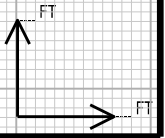
CITY OF MADISON



STA. 21+50



STA. 21+25



PLOT SCALE: _____

PLOT NAME: _____

REV. DATE: _____

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

CROSS SECTIONS

DREDGING

CITY OF MADISON

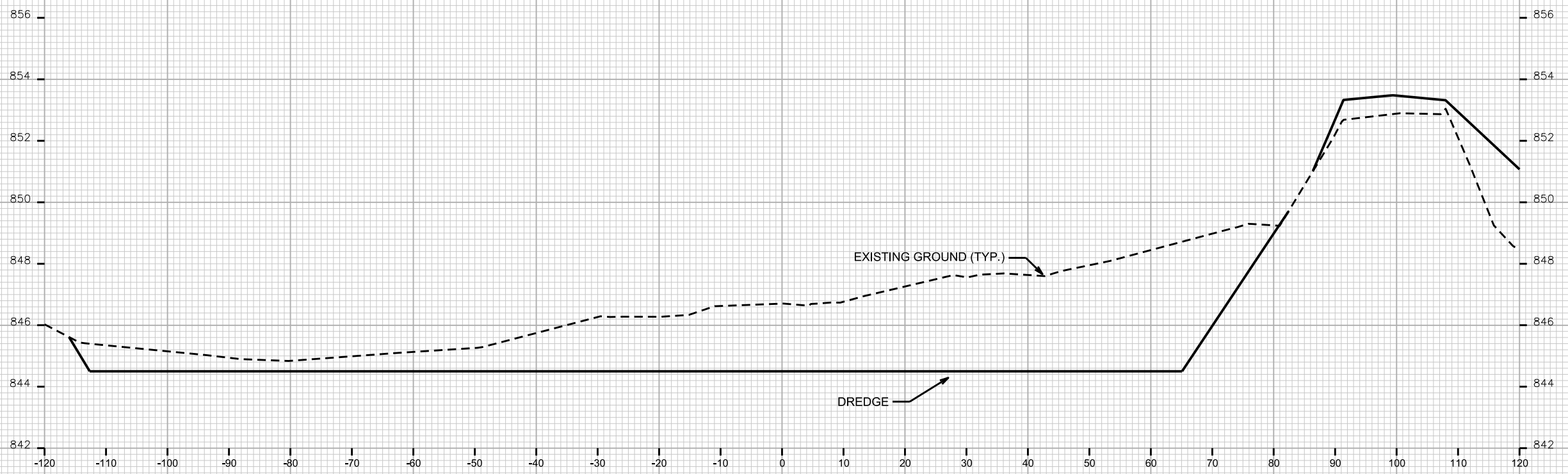
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PLOT NAME: _____

REV. DATE: _____

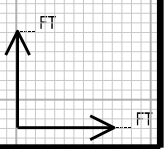
ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 22+00



STA. 21+75



CROSS SECTIONS

DREDGING

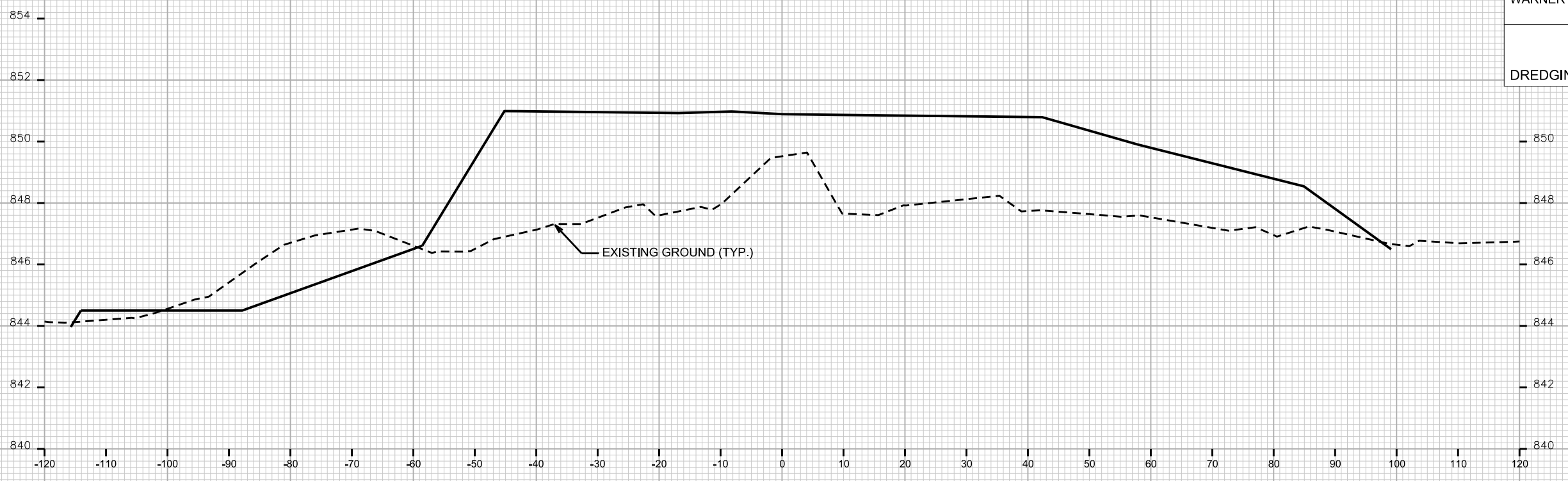
CITY OF MADISON

PLOT SCALE: _____

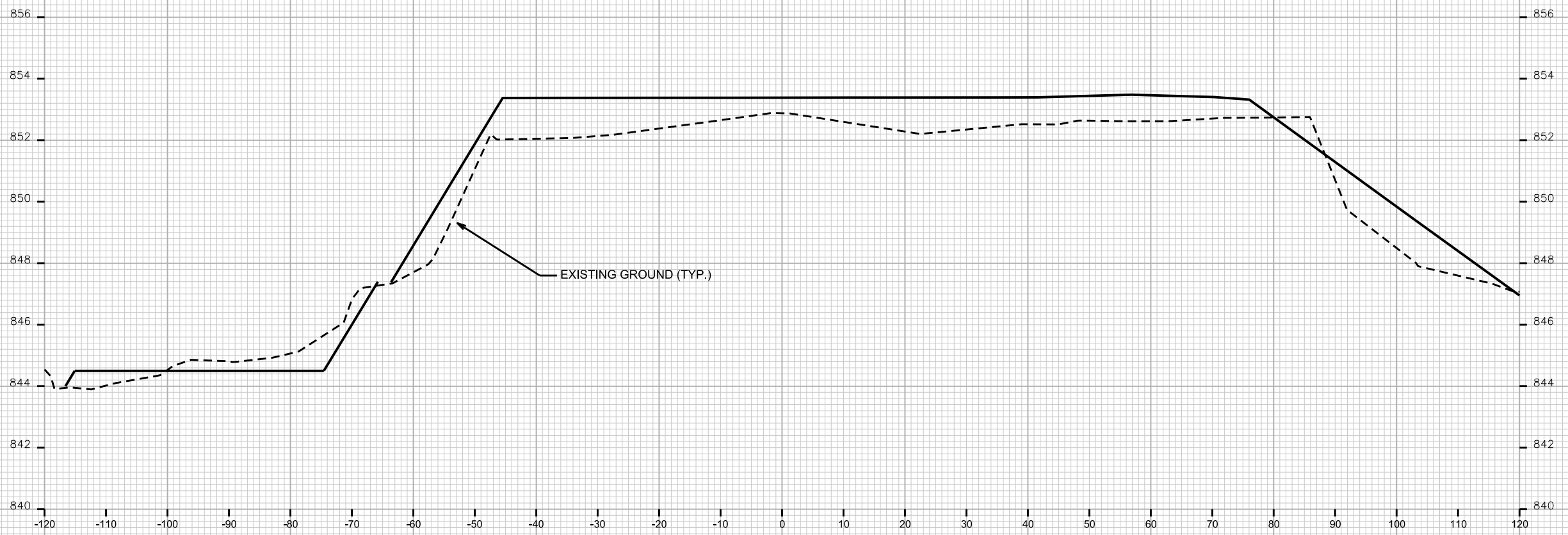
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ORIGINATOR: CITY OF MADISON, STREETS DIVISION



STA. 22+50



STA. 22+25

