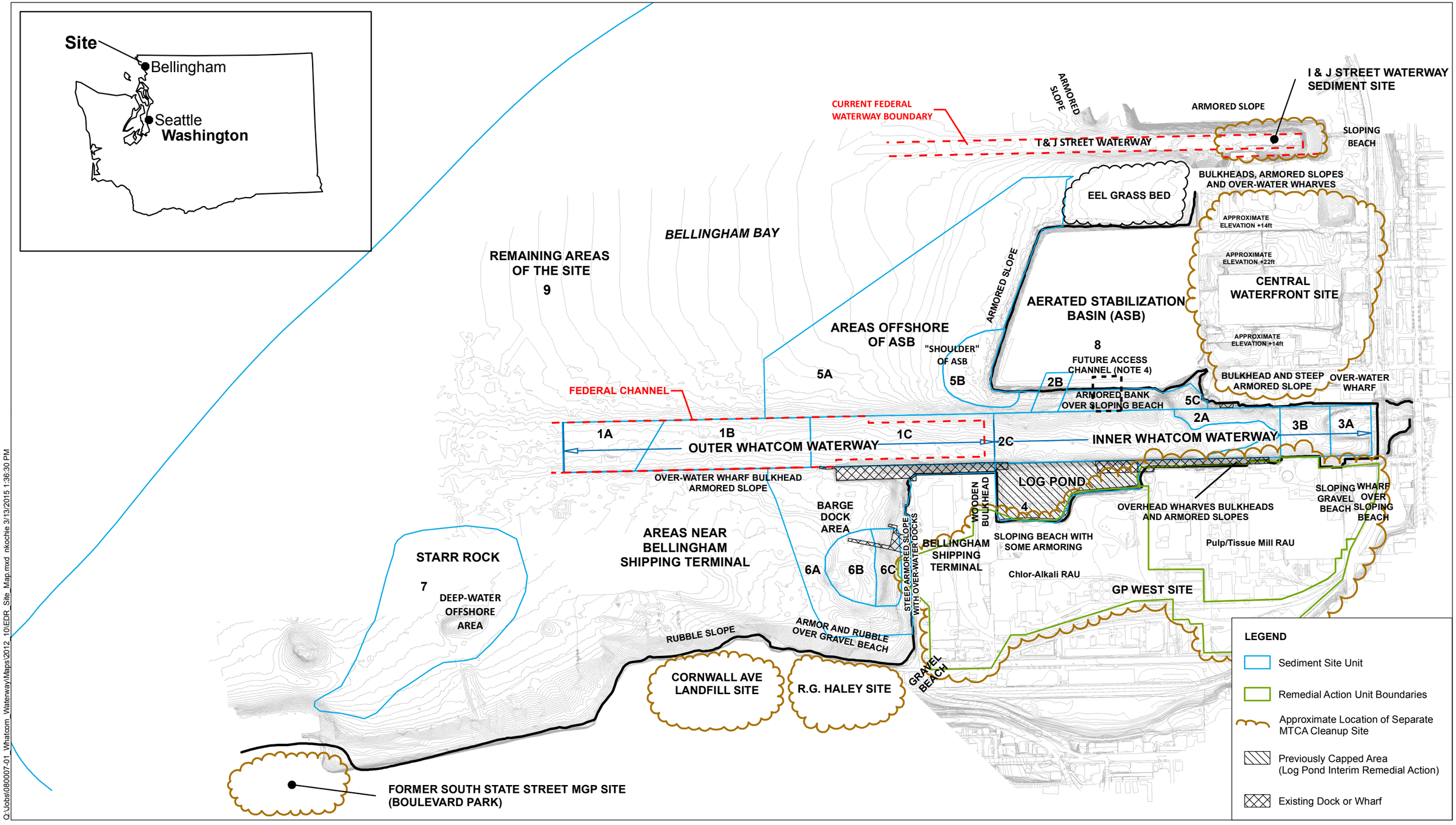


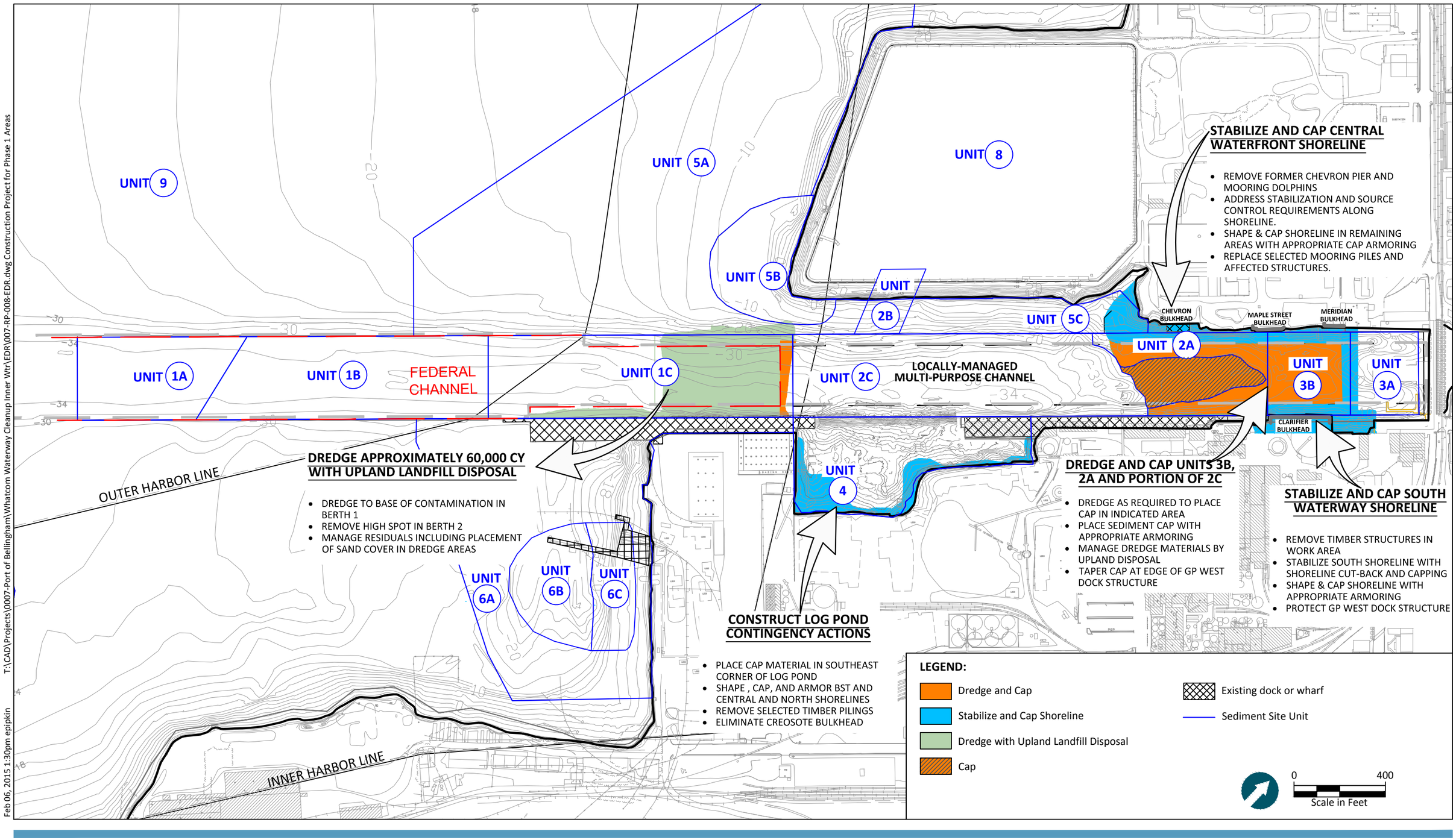
Q:\Jobs\080007-01_Whatcom_Waterway\Maps\2012_10\EDR_Site_Map.mxd nkochie 3/13/2015 1:36:30 PM

NOTES:
1. Site units are shown based on those in Figure 2-3 Cleanup Action Plan, Whatcom Waterway Site, September 2007. Unit 9 boundary updated based on PRDI findings.
2. Horizontal datum: Washington State Plane North, NAD 83 Feet.
3. Vertical datum: Mean Lower Low Water (MLLW).
4. Unit 2B was established in the Cleanup Action Plan based on the anticipated marina access channel location. This location will be adjusted during final design.
5. Remedial Action Unit (RAU) boundaries were defined in the Final Cleanup Action Plan for the GP West Pulp and Tissue Remedial Action Unit (Aspect 2014).

ANCHOR QEA

Feet
0 240 480 720 960

Figure 1
Site Vicinity Map
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-008-EDR.dwg Construction Project for Phase 1 Areas

Feb 06, 2015 1:30pm epipkin

ANCHOR QEA

SOURCE: Figure 6-5 of Exhibit 1 of the First Amendment to the Whatcom Waterway Site Consent Decree (2011).
HORIZONTAL DATUM: Washington State Plane North, NAD 83 Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW).

Figure 2
Construction Project for Phase 1 Areas
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas

LEGEND

- Sediment Site Unit
- Remedial Action Unit Boundaries
- Approximate Location of Separate MTCA Cleanup Site
- Monitored Natural Recovery Area
- Remediation by Dredging or Capping
- Existing Dock or Wharf

BELLINGHAM BAY

REMAINING AREAS OF THE SITE
9

STARR ROCK
7

CURRENT FEDERAL WATERWAY BOUNDARY

I & J STREET WATERWAY

I & J STREET WATERWAY SEDIMENT SITE

EEL GRASS BED

CENTRAL WATERFRONT SITE

AERATED STABILIZATION BASIN (ASB)
8
FUTURE ACCESS CHANNEL (NOTE 4)

AREAS OFFSHORE OF ASB
5A

"SHOULDER" OF ASB
5B

FEDERAL CHANNEL

1A 1B 1C
OUTER WHATCOM WATERWAY

2B 2C 5C 2A 3B 3A
INNER WHATCOM WATERWAY

LOG POND
4

BARGE DOCK AREA
6A 6B 6C

BELLINGHAM SHIPPING TERMINAL

Pulp/Tissue Mill Remedial Action Unit

Chlor-Alkali Remedial Action Unit

GP WEST SITE

CORNWALL AVE LANDFILL SITE

R.G. HALEY SITE

FORMER SOUTH STATE STREET MGP SITE (BOULEVARD PARK)

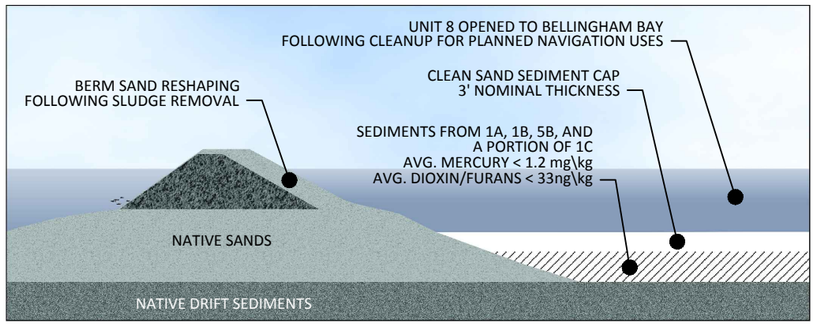
Q:\Jobs\080007-01_Whatcom_Waterway\Maps\2012_10\MNR_Areas.mxd nkochie 3/13/2015 2:06:13 PM

NOTES:
1. Site units are shown based on those in Figure 2-3 Cleanup Action Plan, Whatcom Waterway Site, September 2007. Unit 9 boundary updated based on PRDI findings.
2. Horizontal datum: Washington State Plane North, NAD 83 Feet.
3. Vertical datum: Mean Lower Low Water (MLLW).
4. Unit 2B was established in the Cleanup Action Plan based on the anticipated marina access channel location. This location will be adjusted during final design.
5. Remedial Action Unit (RAU) boundaries were defined in the Final Cleanup Action Plan for the GP West Pulp and Tissue Remedial Action Unit (Aspect 2014).'

ANCHOR QEA

Feet
0 250 500 750 1,000

Figure 3
Monitored Natural Recovery Areas
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



NOTE: The final cap elevation, composition, and thickness to be determined during engineering design.

CROSS-SECTION A-A'

SLUDGE REMOVAL, DEWATERING AND UPLAND DISPOSAL FOLLOWED BY REMOVAL OF APPROXIMATELY 340,000 CY OF CLEAN SAND. PLACEMENT OF APPROXIMATELY 210,200 CY OF CONTAMINATED SEDIMENT FROM 1A, 1B, 5B, AND A PORTION OF 1C FOLLOWED BY CAPPING AND OPENING OF UNIT 8 TO BELLINGHAM BAY IN CONJUNCTION WITH PLANNED NAVIGATION USES.

DREDGE AND CAP

- PLANNED ACCESS CHANNEL CONNECTING UNIT 8 TO BELLINGHAM BAY FOLLOWING CLEANUP (LOCATION TO BE FINALIZED DURING ENGINEERING DESIGN), POTENTIAL LOCATION SHOWN

DREDGE APPROXIMATELY 192,200 CY WITH CONFINED DISPOSAL IN UNIT 8

- DREDGE UNITS 1A, 1B, AND PORTION OF 1C
- DREDGE BERTH 1 UNDER DOCK AREAS
- MANAGE DREDGE RESIDUALS INCLUDING PLACEMENT OF SAND COVER

DREDGE APPROXIMATELY 18,000 CY WITH CONFINED DISPOSAL IN UNIT 8

- BACKFILL WITH CLEAN SAND

PLACE THICK CAP IN UNIT 2C

- REUSE CLEAN SAND FROM UNIT 8 WITH ADDITIONAL ARMOR MATERIAL AS REQUIRED
- PROTECT EXISTING GP WEST DOCK STRUCTURE

CAP AND ARMOR LOG POND SLOPE AREA

- REMOVE BST PIER EXTENSION
- REPLACE PIER FUNCTION WITH MOORING AND BREASTING DOLPHINS
- PLACE CAP AND ARMOR ON SLOPE AREA

PLACE ARMOR LAYER IN BARGE DOCK AREA

UNIT 9 · UNIT 1A · UNIT 1B · FEDERAL CHANNEL · UNIT 1C · UNIT 5A · UNIT 8 · A · A' · UNIT 5B · UNIT 2B · FUTURE ACCESS CHANNEL · UNIT 5C · UNIT 2A · 18-FT DEPTH · UNIT 3B · UNIT 3A · UNIT 2C · LOCALLY-MANAGED MULTI-PURPOSE CHANNEL · 22-FT DEPTH · 20-FT DEPTH · 18-FT DEPTH · B · 3 · C · 3 · UNIT 4 · OUTER HARBOR LINE · UNIT 7 · INNER HARBOR LINE · UNIT 6B · UNIT 6C · UNIT 6A

LEGEND:

- Dredge with confined disposal in Unit 8
- Outer boundary of Unit 8 confined disposal area
- Waterway capping with armoring
- Sediment Site Unit
- Sludge to be removed
- Dredge Access Channel, Reuse Clean Material, Armor Entrance
- Existing dock or wharf

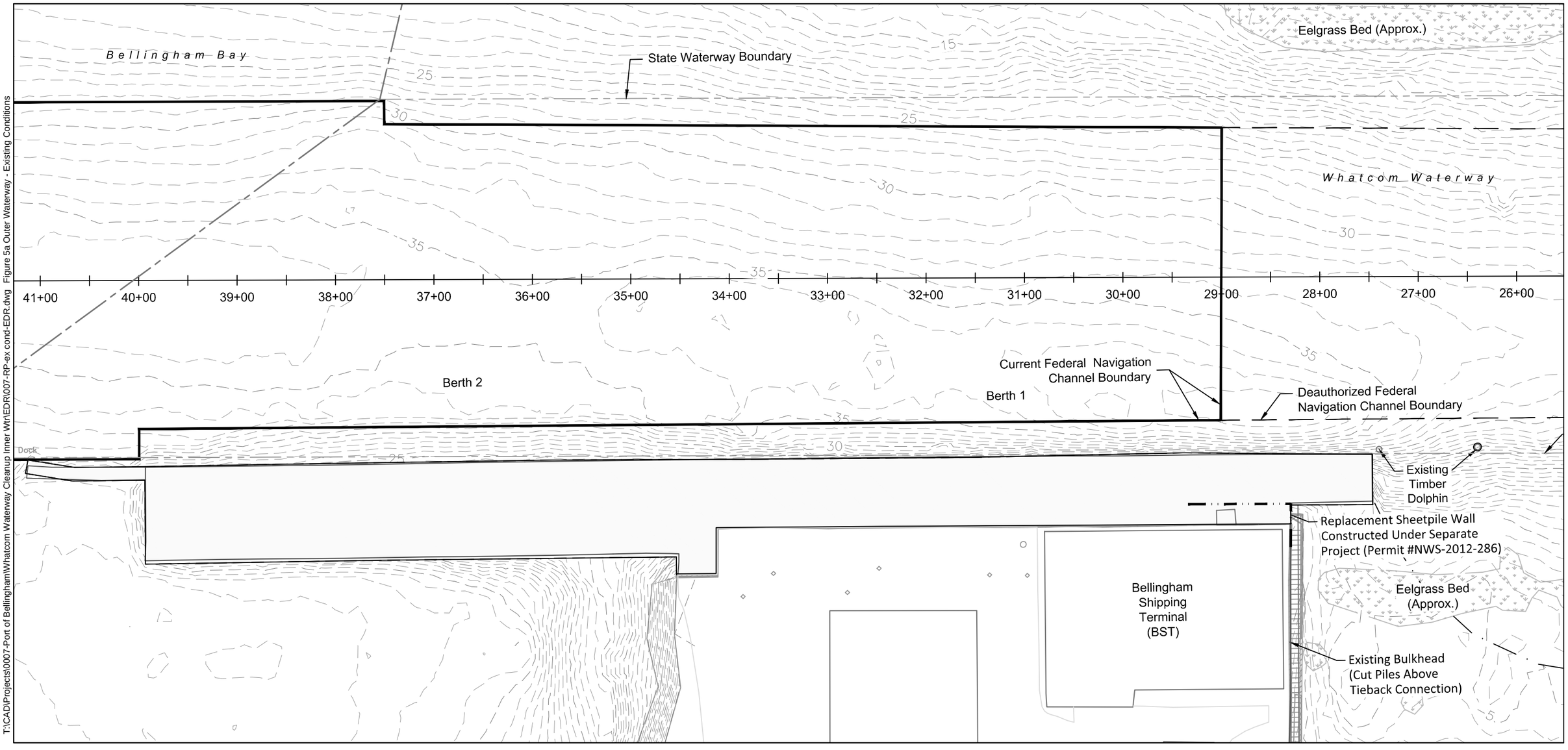
0 600
Scale in Feet

T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-009-EDR.dwg Construction Project for Phase 2 Areas_xsec
Feb 06, 2015 12:12pm epipkin

SOURCE: Figure 6-5 of Exhibit 1 of the First Amendment to the Whatcom Waterway Site Consent Decree (2011).
HORIZONTAL DATUM: Washington State Plane North, NAD 83 Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW).

ANCHOR QEA

Figure 4
Construction Project for Phase 2 Areas
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-ex cond-EDR.dwg Figure 5a Outer Waterway - Existing Conditions
Feb 06, 2015 12:12pm epipkin

SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet.

NOTES:
Eelgrass Survey Conducted in October 2008.

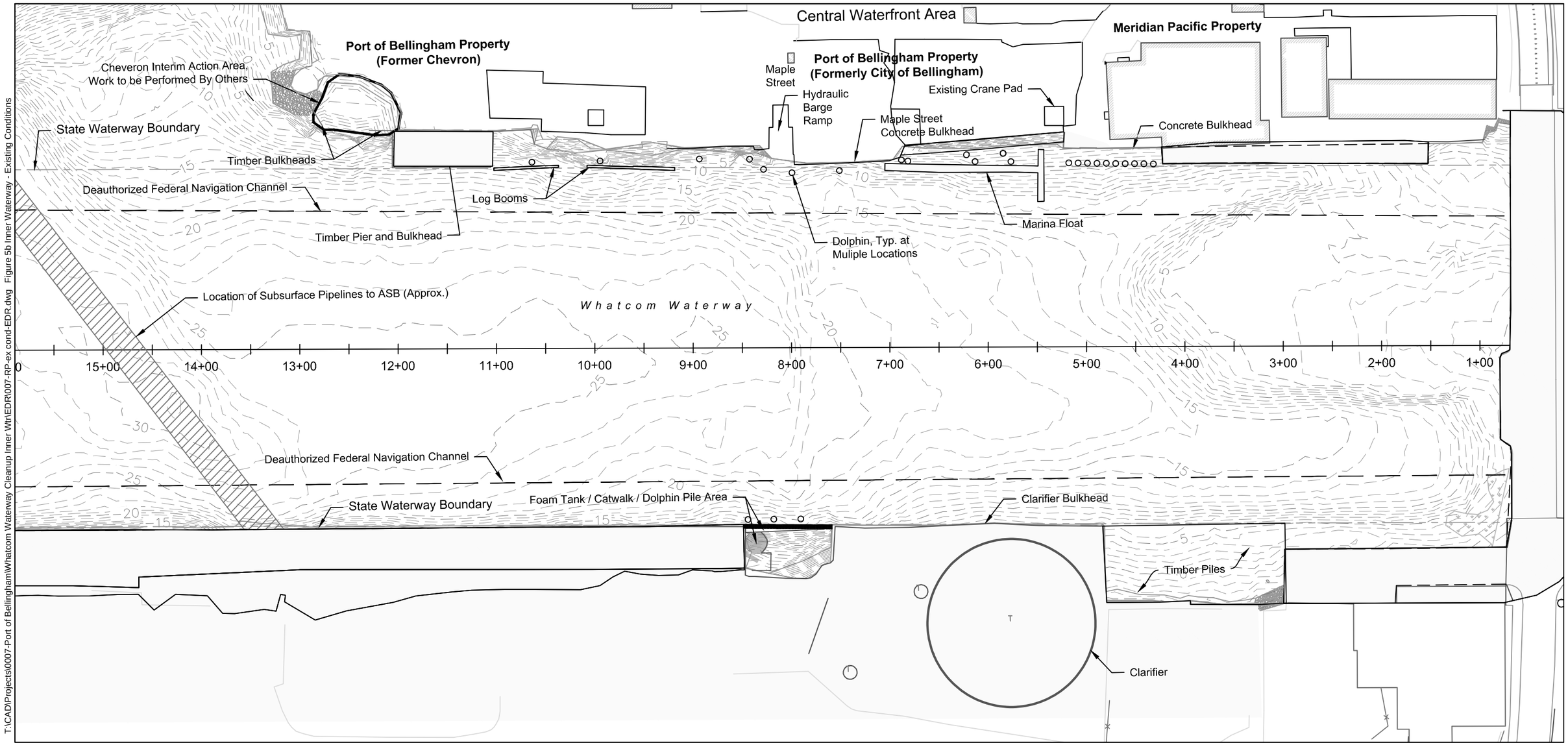
LEGEND:

- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)
- Eelgrass Bed

0 100
Scale in Feet

ANCHOR QEA

Figure 5a
Outer Waterway - Existing Conditions
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-ex cond-EDR.dwg Figure 5b Inner Waterway - Existing Conditions

Feb 06, 2015 12:12pm epipkin

SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet.

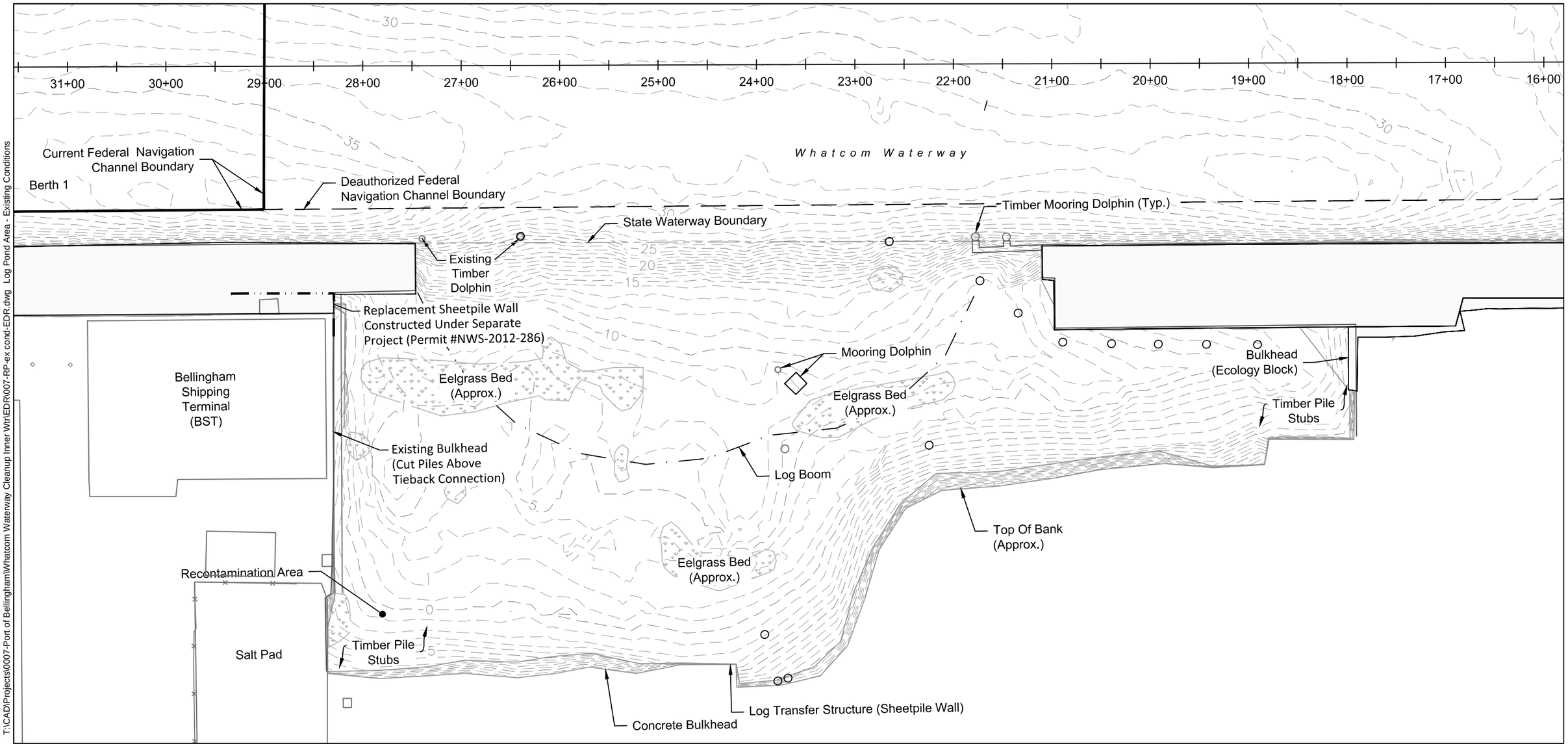
LEGEND:

- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)
- Eelgrass Bed

0 100
Scale in Feet

ANCHOR QEA

Figure 5b
Inner Waterway - Existing Conditions
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-ex cond-EDR.dwg Log Pond Area - Existing Conditions
Feb 06, 2015 12:12pm epipkin

SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet.

NOTES:
Eelgrass Survey Conducted in October 2008.

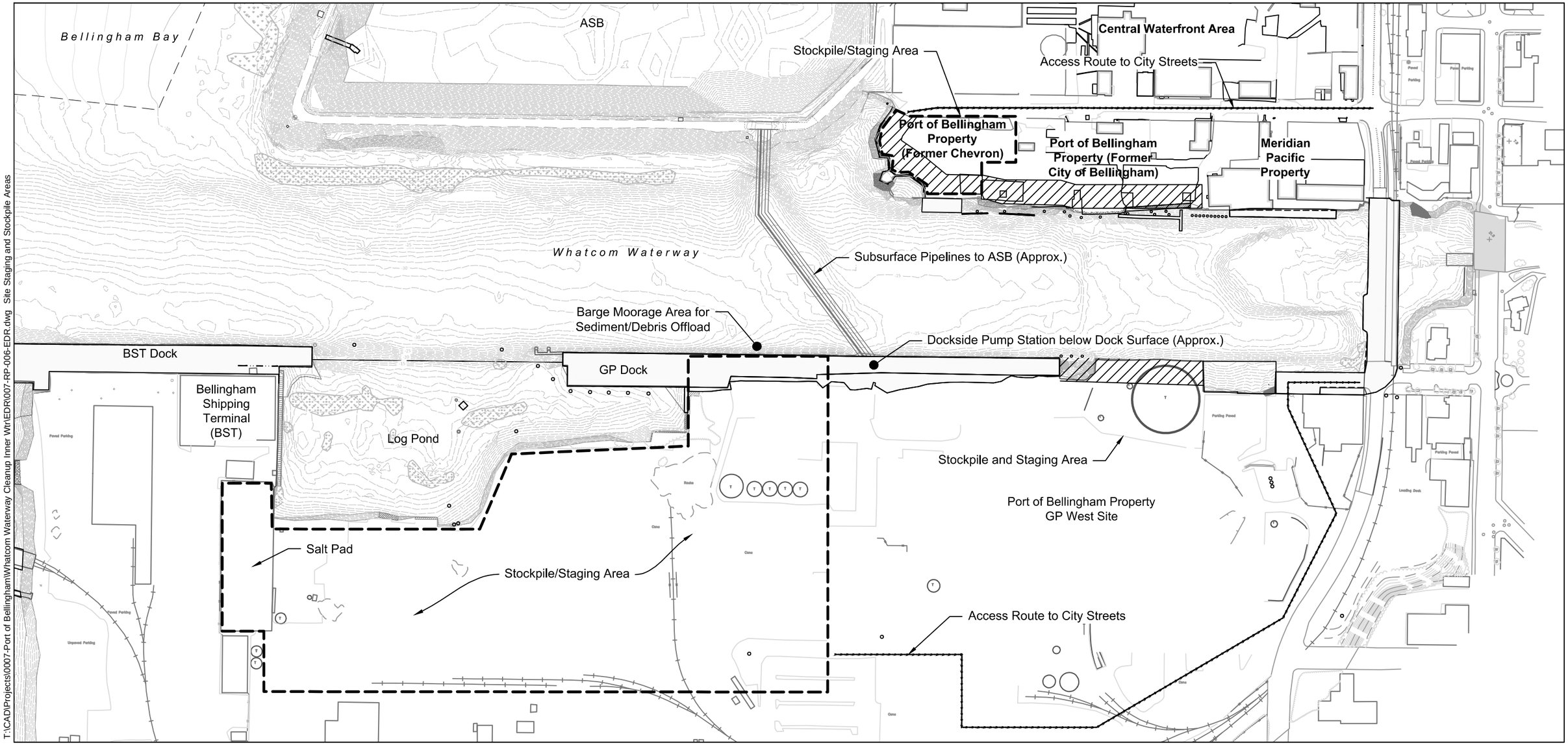
LEGEND:

- Eelgrass Bed
- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)

0 100
Scale in Feet

ANCHOR QEA

Figure 5c
Log Pond Area - Existing Conditions
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-006-EDR.dwg Site Staging and Stockpile Areas

Feb 06, 2015 1:35pm epipkin

SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet.

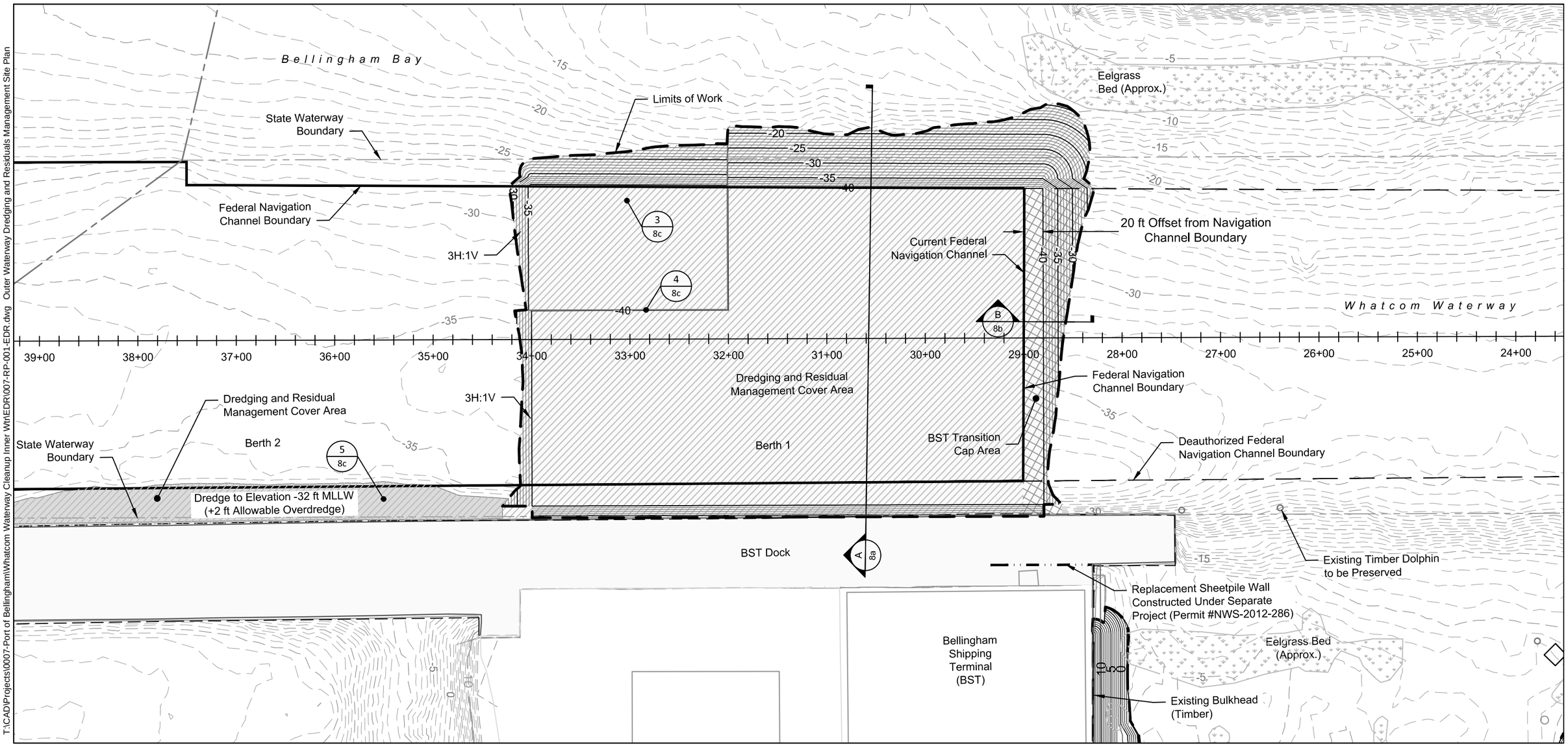
LEGEND:

- Access Route
- Stockpile/Staging Area
- Nearshore Work Area

0 250
Scale in Feet

ANCHOR QEA

Figure 6
Site Staging and Stockpile Areas
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner WtrlEDR\007-RP-001-EDR.dwg Outer Waterway Dredging and Residuals Management Site Plan

Feb 06, 2015 12:16pm epipkin

SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Ft.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Ft.

NOTES:
1. Eelgrass Survey Conducted in October 2008.
2. Residuals Management Finished Grade not Presented in this Figure. See Details (Figure 8c) for Residuals Management Cover and Transition Slope Area Cap.

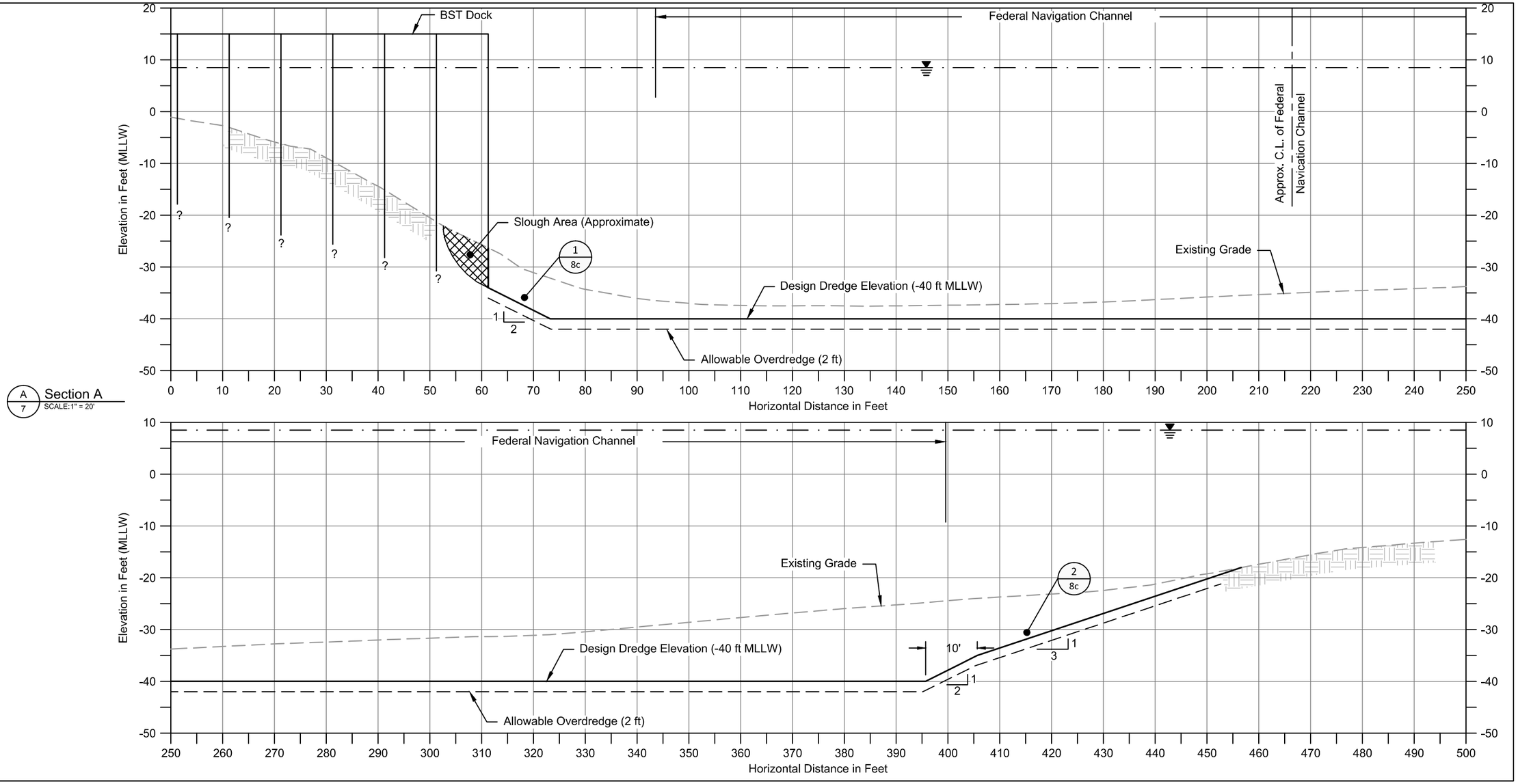
LEGEND:

- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)
- Proposed Post-Dredge Major Contour (5' Interval)
- Proposed Post-Dredge Minor Contour (1' Interval)
- Eelgrass Bed
- Dredging and Residual Management Cover Area
- BST Transition Cap Area

0 100
Scale in Feet

ANCHOR QEA

Figure 7
Outer Waterway Dredging and Residuals Management Site Plan
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



A / 7 Section A
SCALE:1" = 20'

LEGEND:

- Existing Grade
- Proposed Post-Dredge Surface
- MHHW (+8.5')

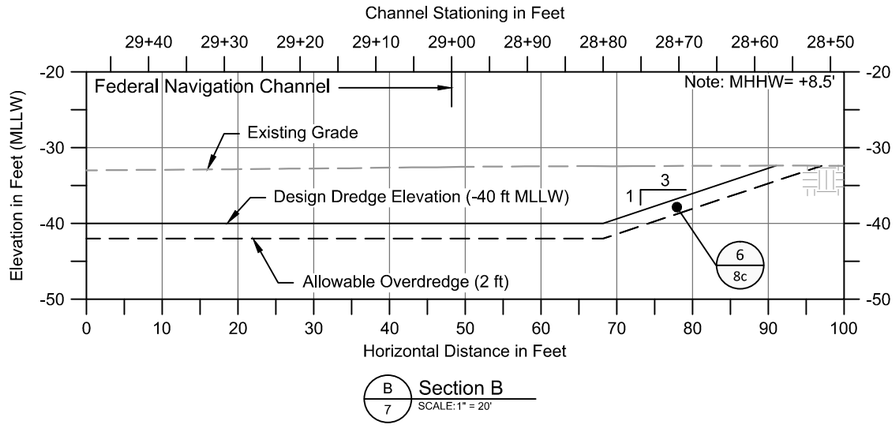
0 20
Scale in Feet

T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner WtrwEDR\007-RP-001-EDR.dwg Outer Waterway Dredging Section A-A'

Feb 06, 2015 12:16pm epipkin

ANCHOR QEA

Figure 8a
Outer Waterway Dredging Section A-A'
Final Engineering Design Report
Whatcom Waterway Cleanup In Phase 1 Site Areas



LEGEND:

- Existing Grade
- Proposed Post-Dredge Surface
- MHHW (+8.5')

0 20

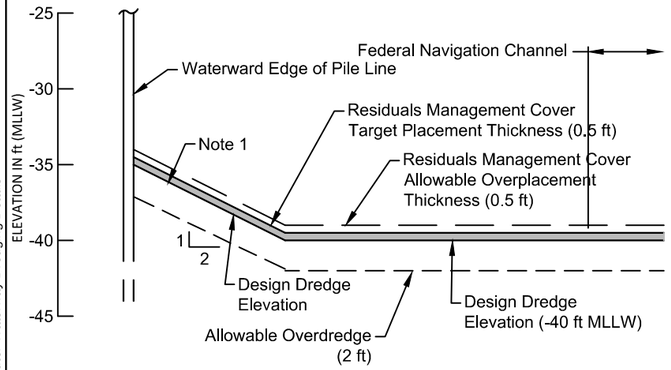
Scale in Feet

T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner WtrwEDR\007-RP-001-EDR.dwg Outer Waterway Dredging Section B-B'

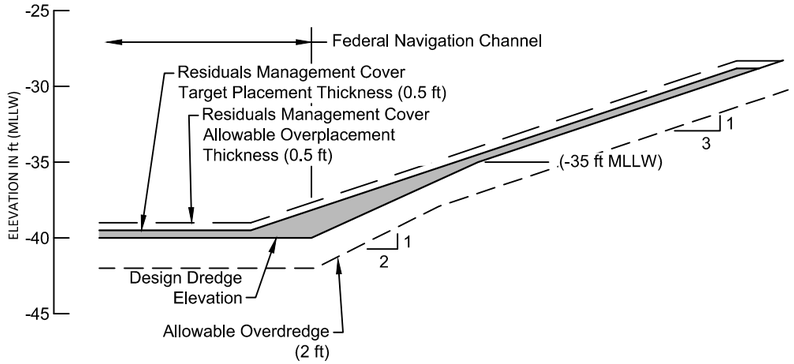
Feb 06, 2015 12:16pm epipkin

ANCHOR QEA

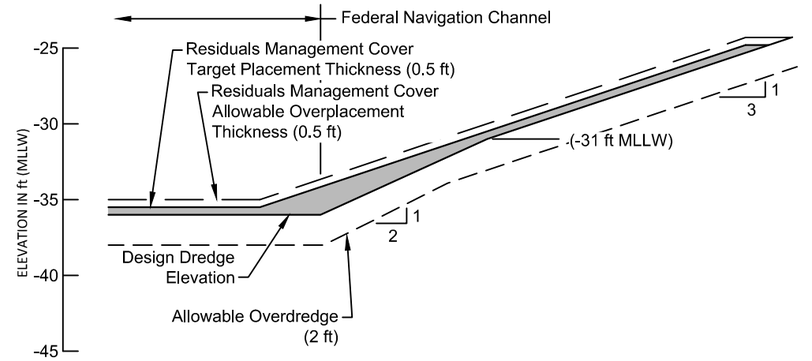
Figure 8b
Outer Waterway Dredging Section B-B'
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



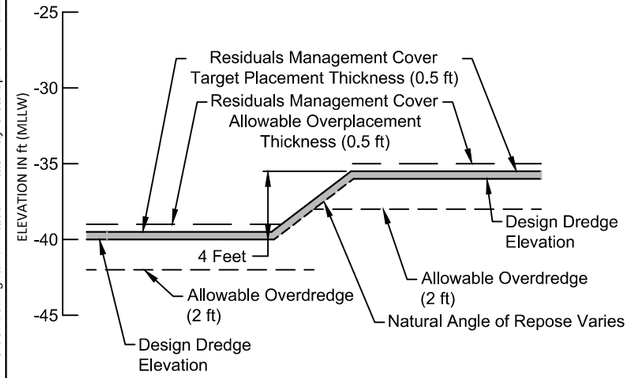
1 / 8a DETAIL: BST BERTH 1
SCALE:NTS



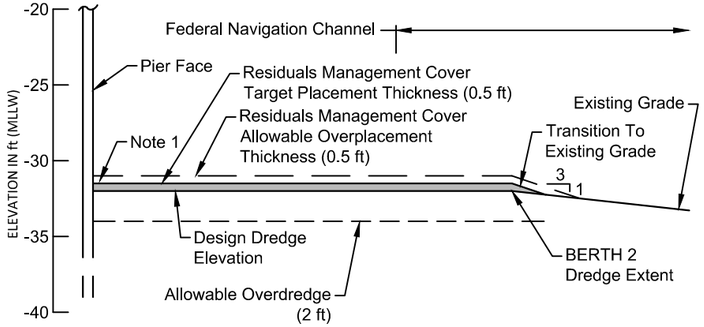
2 / 8a DETAIL: NW SLOPE FOR -40 DREDGE PRISM
SCALE:NTS



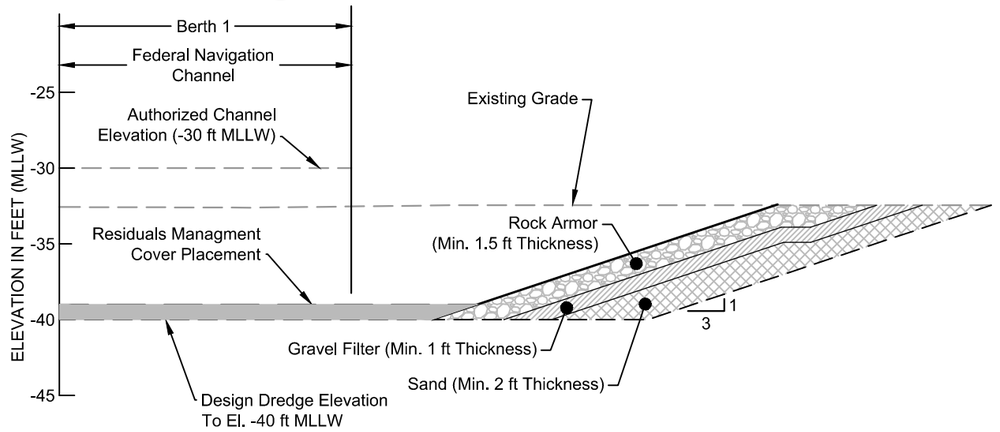
3 / 7 DETAIL: NW SLOPE FOR -36 DREDGE PRISM
SCALE:NTS



4 / 7 DETAIL: ELEVATION CHANGE WITHIN RESIDUAL MANAGEMENT UNIT
SCALE:NTS



5 / 7 DETAIL: BST BERTH 2
SCALE:NTS



6 / 8b DETAIL: TRANSITION SLOPE ENGINEERED CAP (TYPE I)
SCALE:NTS

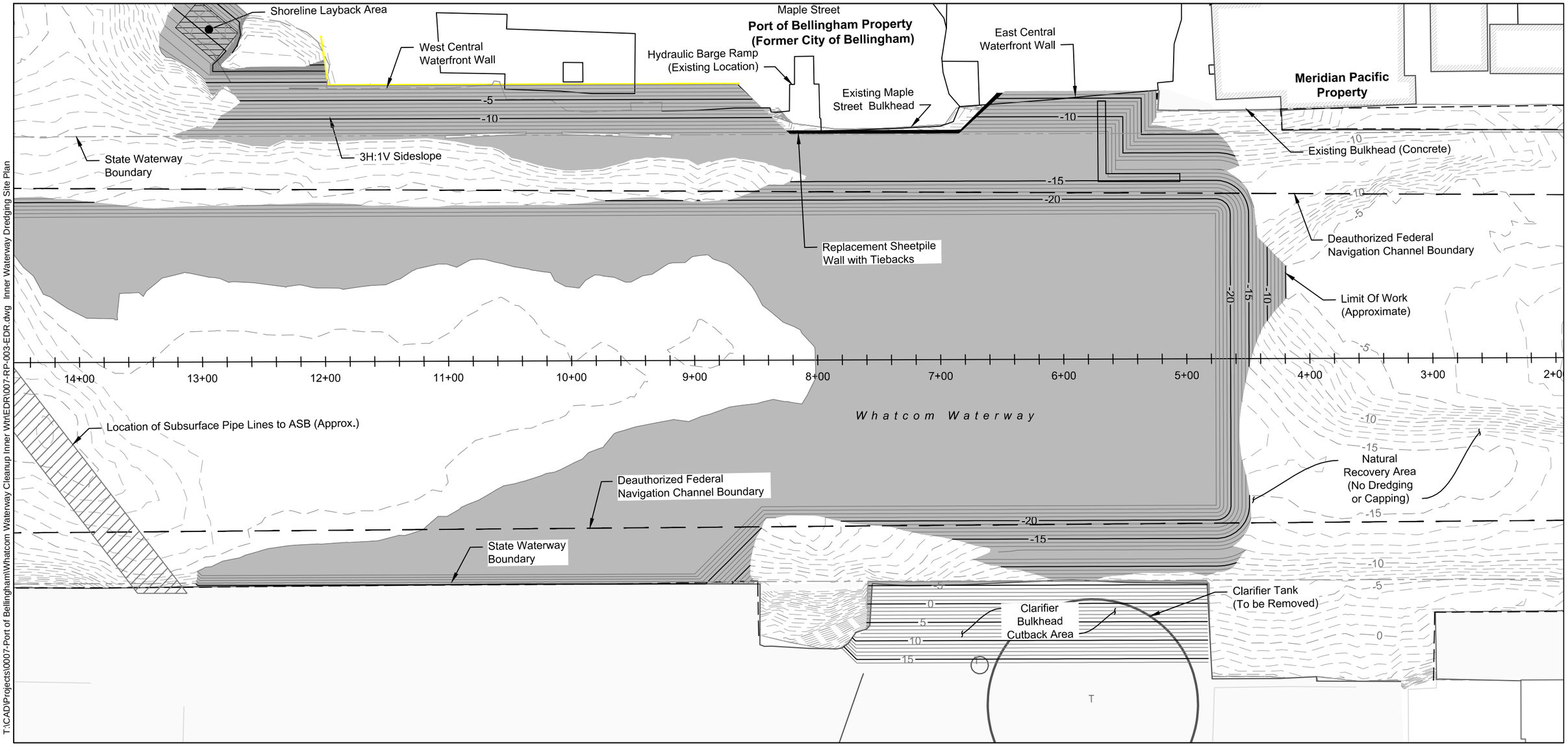
NOTES:

1. Second dredge pass to be completed to remove slough material from under pier slope (See Figure 8a, Section A) and return elevation to design dredge elevation prior to placing residuals cover.

T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner WtnEDR\007-RP-001-EDR.dwg Outer Waterway Dredging Details
Feb 06, 2015 12:16pm epipkin

ANCHOR QEA

Figure 8c
Outer Waterway Dredging Details
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet.

NOTES:

1. Figure does not show excavation/backfill, which may be necessary behind containment wall.

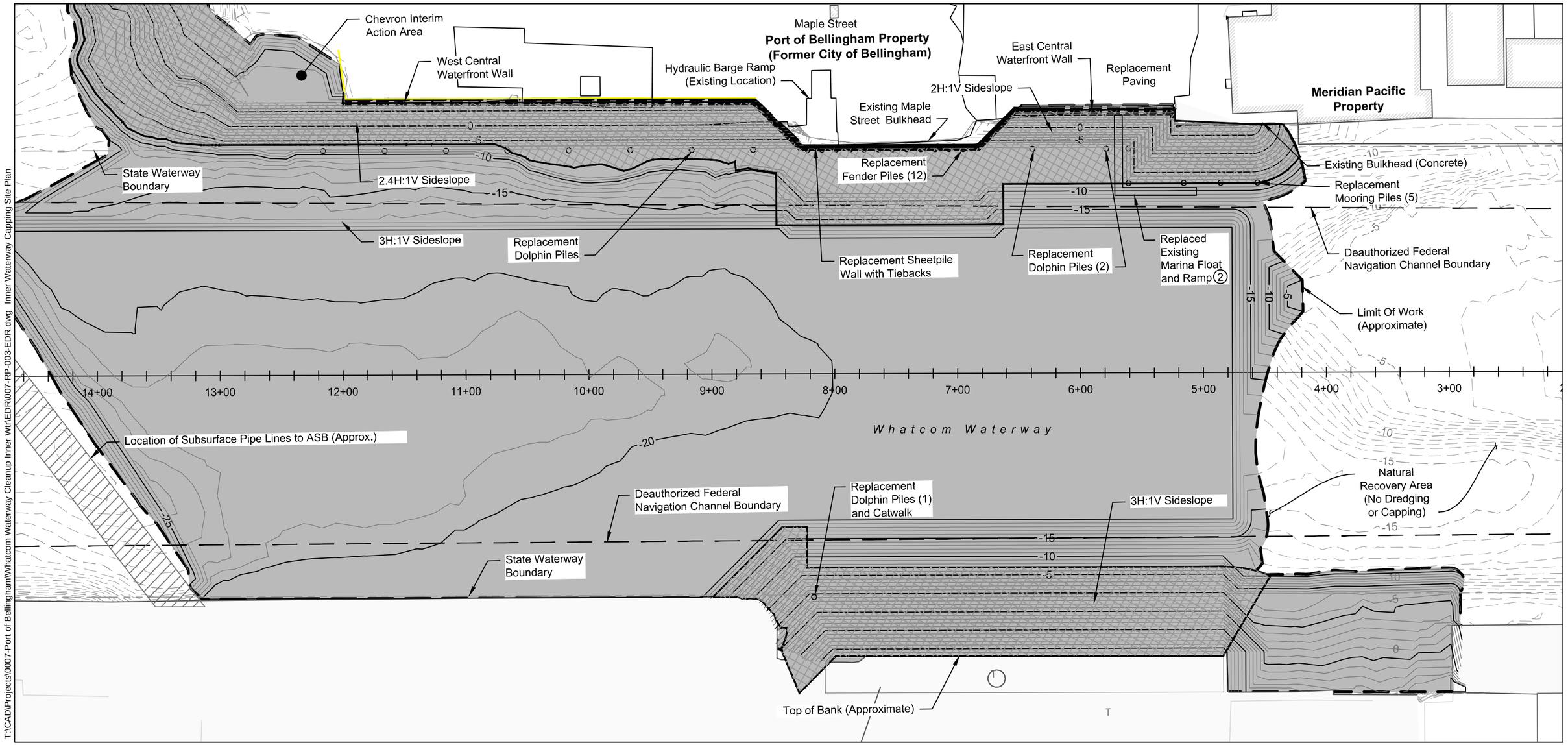
LEGEND:

- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)
- Area of Dredging
- Proposed Major Contour (5' Interval)
- Proposed Minor Contour (1' Interval)

0 80
Scale in Feet

ANCHOR QEA

Figure 9a
Inner Waterway Dredging Site Plan
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Ww\EDR\007-RP-003-EDR.dwg Inner Waterway Capping Site Plan
Feb 24, 2015 8:59am epipkin

SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet.

NOTES:
1. Figure does not show excavation/backfill, which may be necessary behind containment wall.
2. Final locations of replaced float and pilings will be determined in coordination with WDFW and USACE.

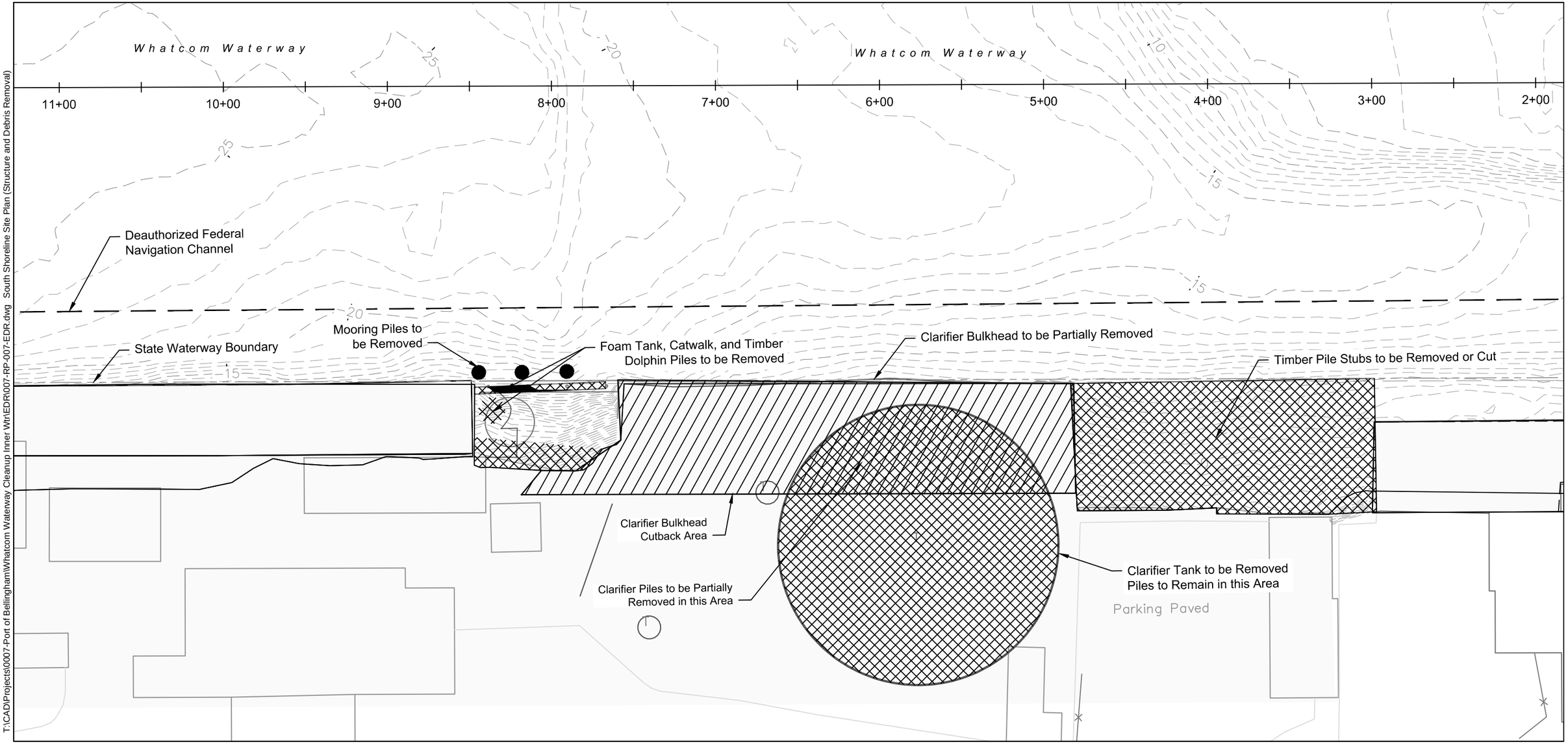
LEGEND:

- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)
- Proposed Major Contour (5' Interval)
- Proposed Minor Contour (1' Interval)
- Area of Capping
- Armor Rock Area

0 80
Scale in Feet

ANCHOR QEA

Figure 9b
Inner Waterway Capping Site Plan
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-007-EDR.dwg South Shoreline Site Plan (Structure and Debris Removal)

Feb 06, 2015 12:23pm epipkin

SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet.

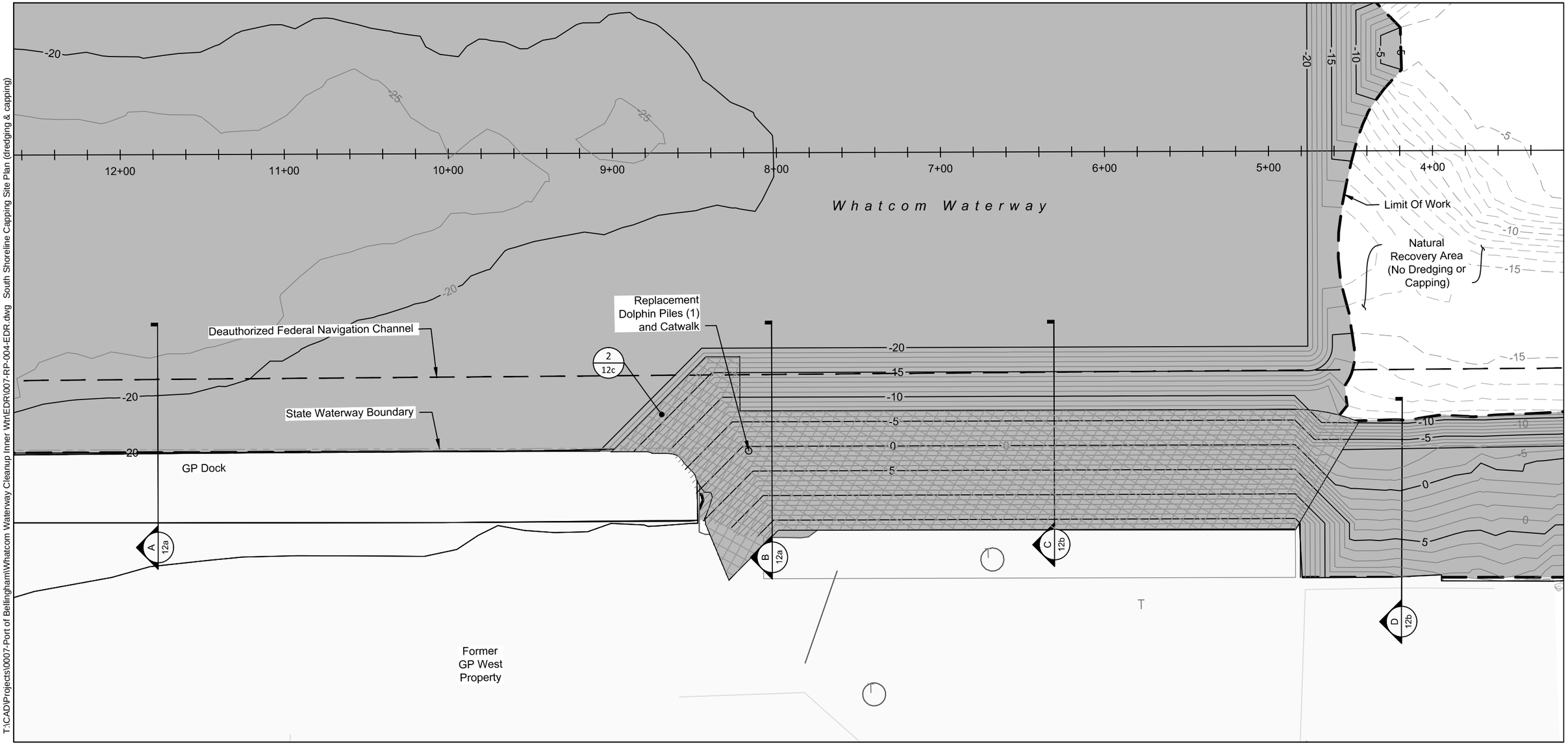
LEGEND:

- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)
- Structure/Shoreline Debris for Removal
- Dolphins to be Removed

0 60
Scale in Feet

ANCHOR QEA

Figure 10
South Shoreline Site Plan (Structure and Debris Removal)
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CADProjects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner WtrlEDR\007-RP-004-EDR.dwg South Shoreline Capping Site Plan (dredging & capping)

Feb 06, 2015 12:27pm epipkin

SOURCE: Drawing prepared from bathymetric survey provided by Wilson Engineering.
HORIZONTAL DATUM: Washington State Plane North, NAD83, Feet.
VERTICAL DATUM: Mean Lower Low Water (MLLW), Feet.

LEGEND:

- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)
- Proposed Major Contour (5' Interval)
- Proposed Minor Contour (1' Interval)
- Area of Capping
- Armor Rock Area

0 60
Scale in Feet

ANCHOR QEA

Figure 11
South Shoreline Capping Site Plan
Final Engineering Design Report
Whatcom Waterway Cleanup in Phase 1 Site Areas