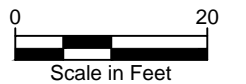
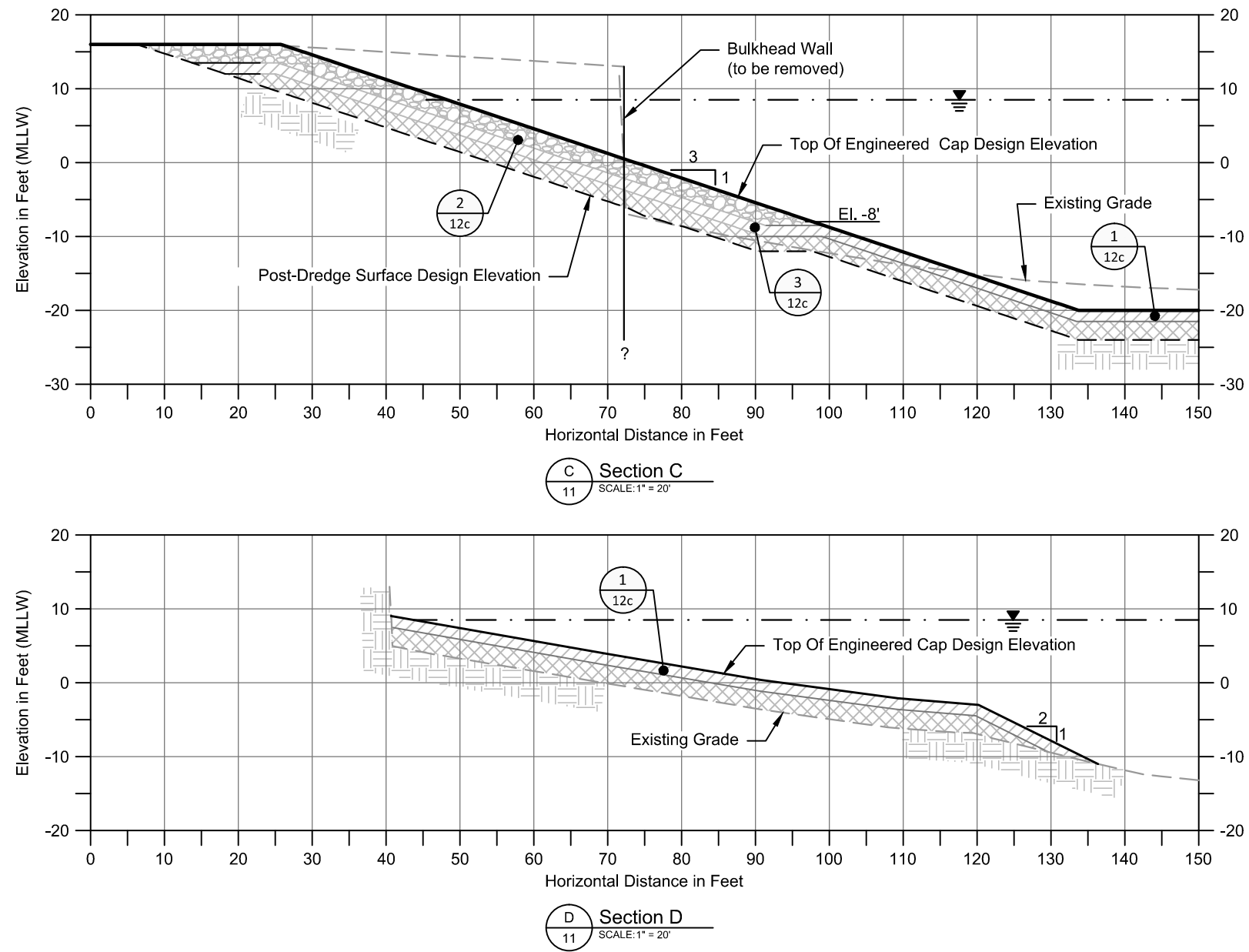


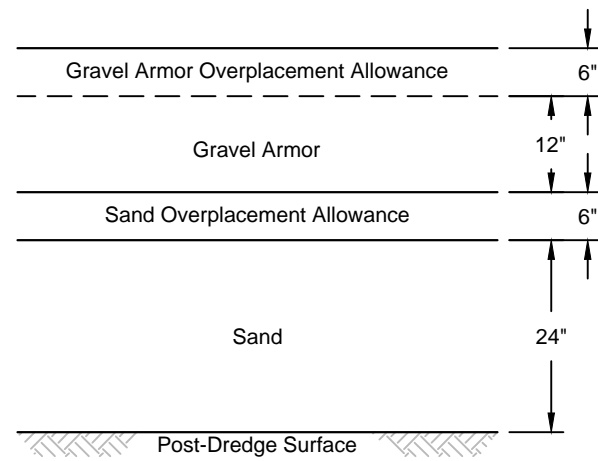
**LEGEND:**

- Existing Grade
- Post-Dredge Surface
- Proposed Grade
- . - MHHW (+8.5')
- [Rock Pattern] Rock Armor Layer
- [Gravel Pattern] Gravel Armor/Gravel Filter Layer
- [Sand Pattern] Sand Layer

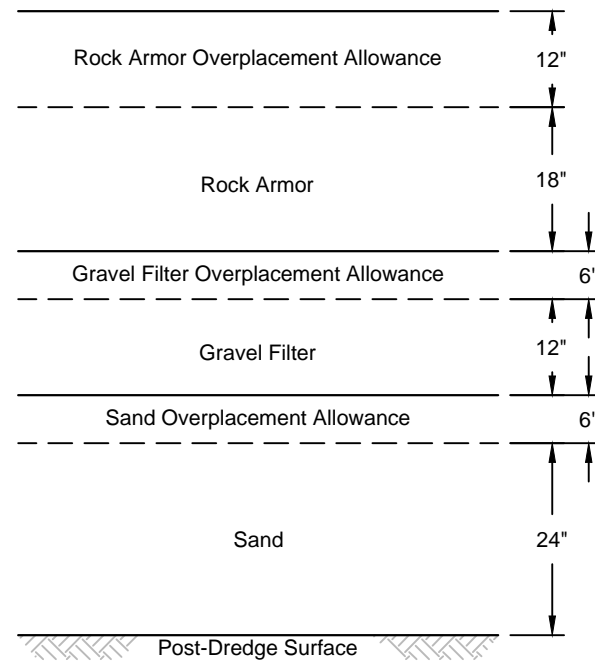




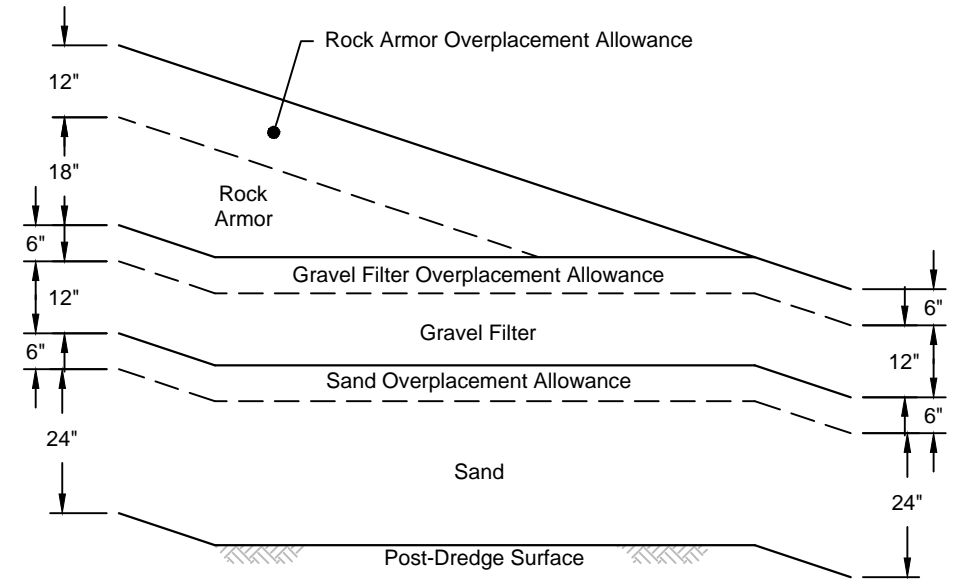
**Figure 12b**  
South Shoreline Dredging and Capping Sections C-C' and D-D'  
Final Engineering Design Report  
Whatcom Waterway Cleanup in Phase 1 Site Areas



1  
12a,b SCALE:NTS  
TYPICAL DETAIL: INNER WATERWAY  
OPEN WATER ENGINEERED CAP (TYPE II)



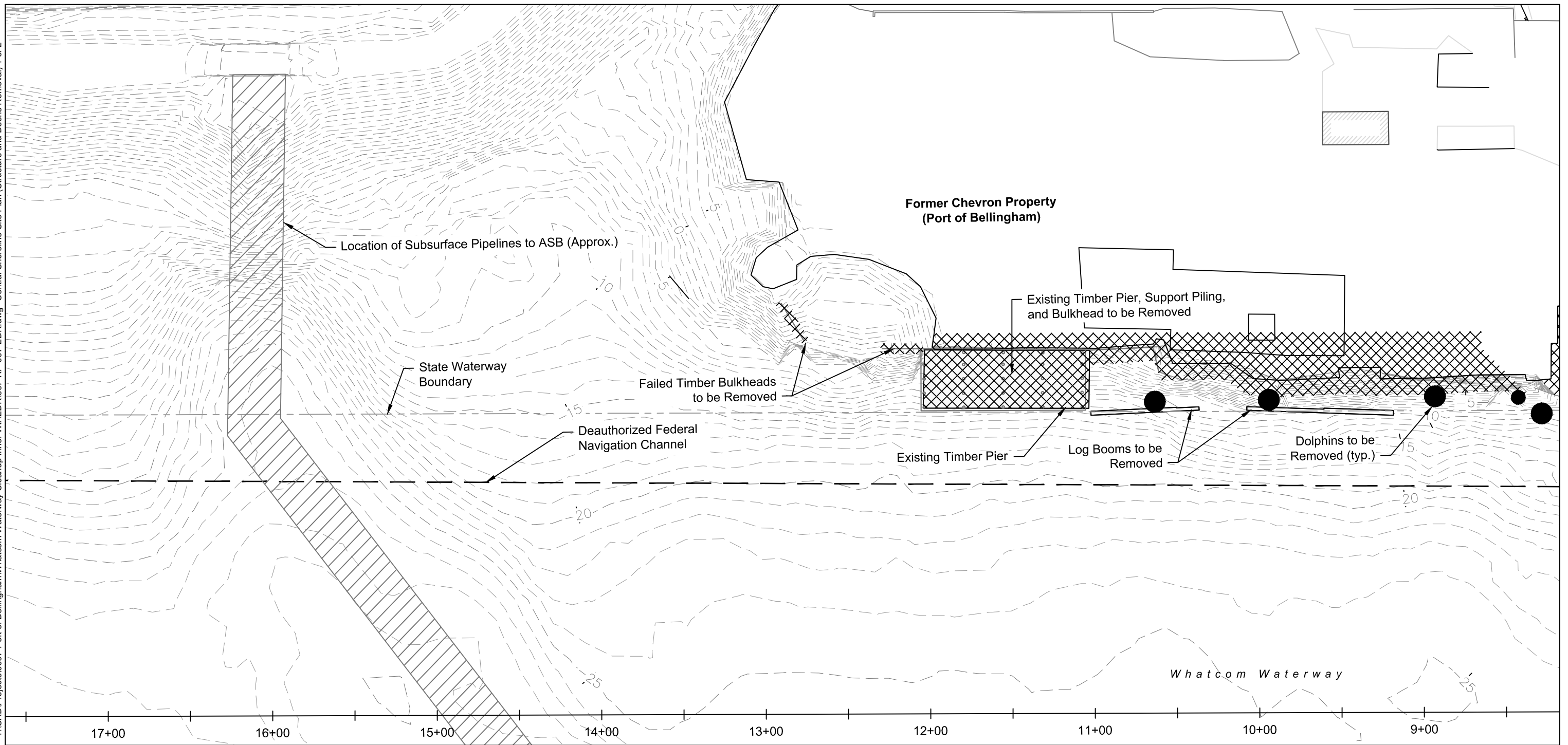
2  
1f, 12a,b SCALE:NTS  
TYPICAL DETAIL: INNER WATERWAY  
NEARSHORE ENGINEERED CAP (TYPE I)



3  
12a,b SCALE:NTS  
TYPICAL DETAIL: INNER WATERWAY  
NEARSHORE TRANSITION ENGINEERED CAP (TYPE I)

T:\CAD\Projects\007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-007-EDR.dwg Central Shoreline Site Plan (Structure and Debris Removal) 1 of 2

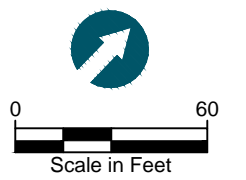
Feb 06, 2015 12:30pm eppkin



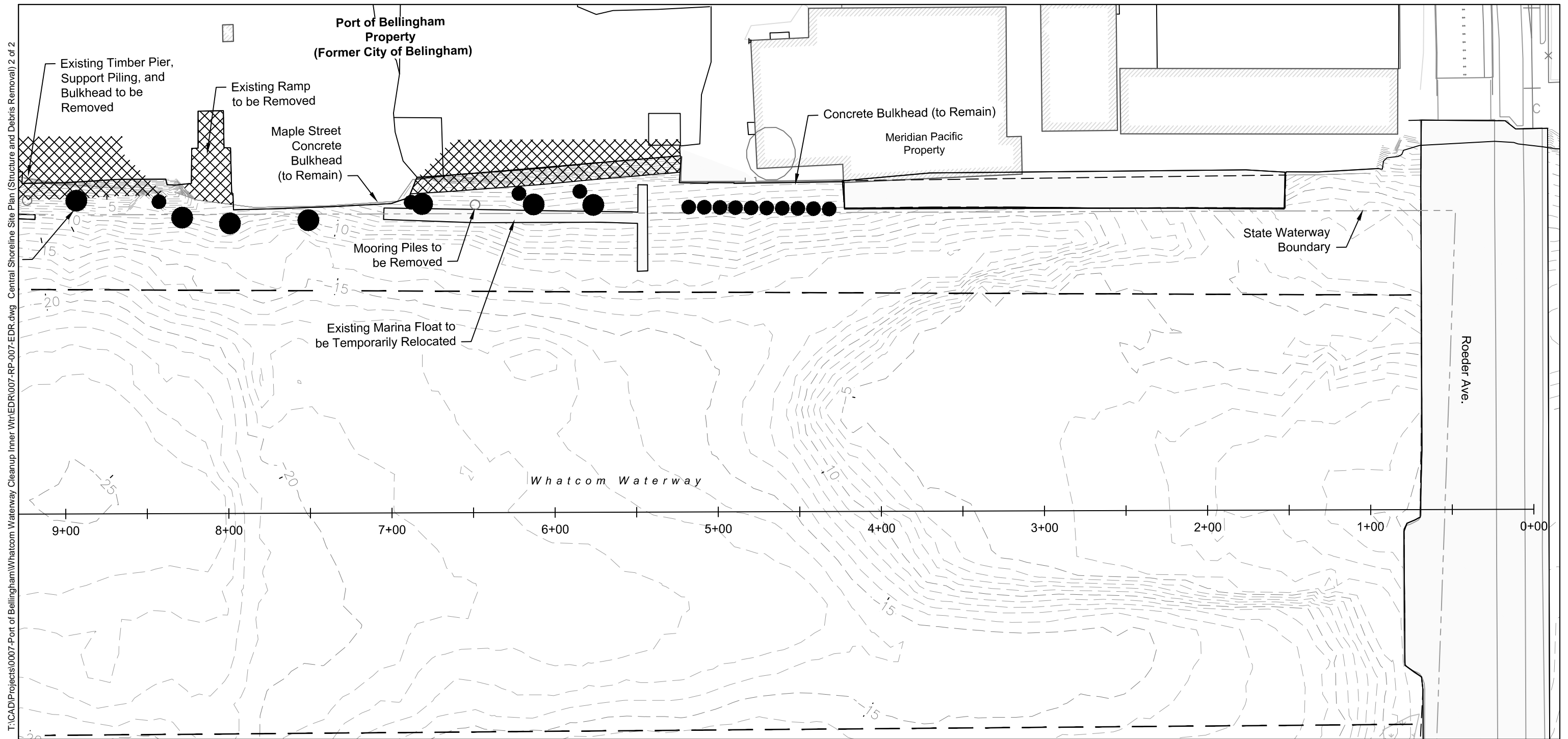
**SOURCE:** Drawing prepared from bathymetric survey provided by Wilson Engineering.  
**HORIZONTAL DATUM:** Washington State Plane North, NAD83, Feet.  
**VERTICAL DATUM:** Mean Lower Low Water (MLLW), Feet.

**LEGEND:**

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



T:\CAD\Projects\007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-007-EDR.dwg Central Shoreline Site Plan (Structure and Debris Removal) 2 of 2

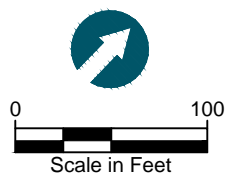


Feb 06, 2015 12:30pm eppkin

**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:**

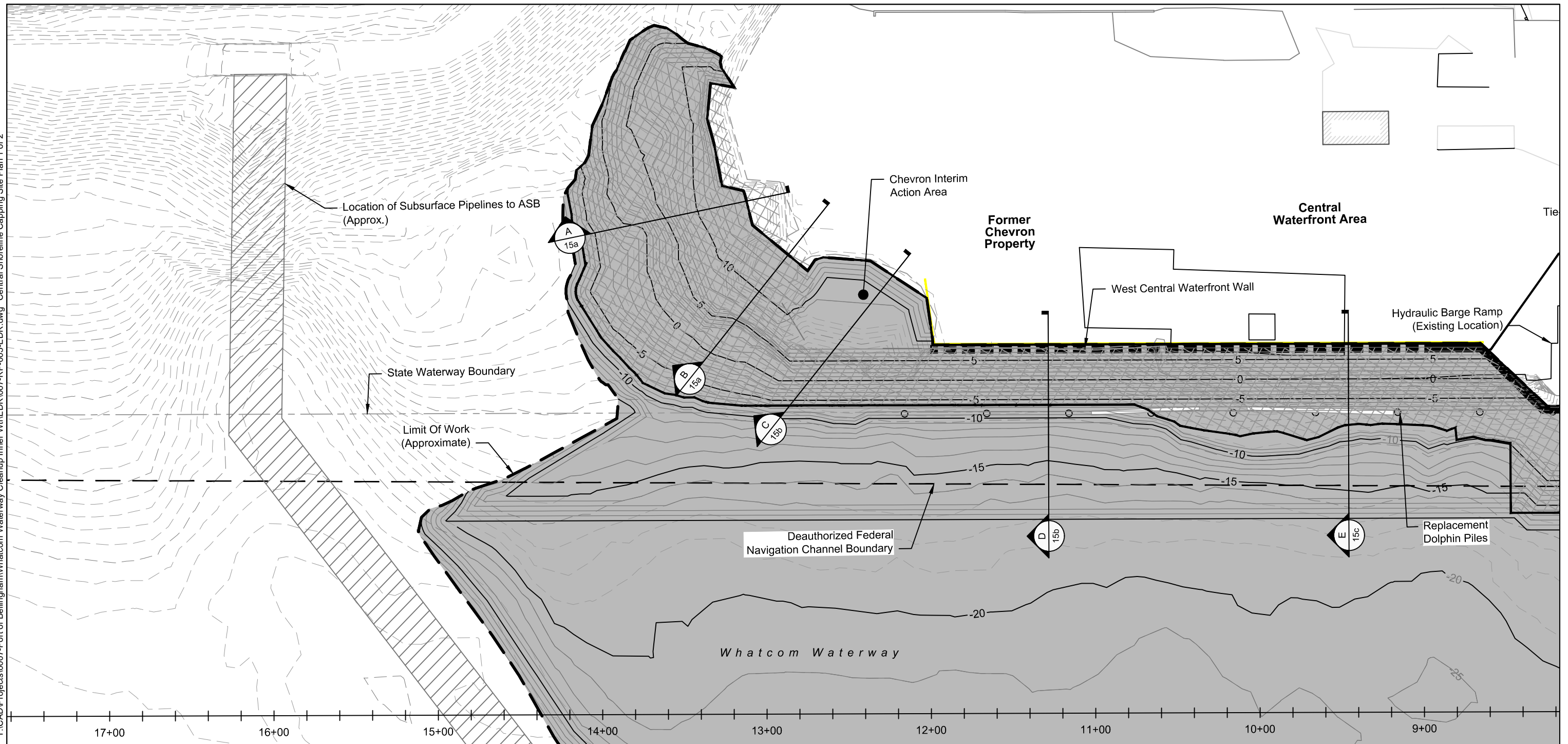
- Existing Major Contour (5' Interval)
- Existing Minor Contour (1' Interval)
- ▣ Structure/Shoreline Debris for Removal
- Dolphins to be Removed





T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wt\EDR\007-RP-005-EDR.dwg Central Shoreline Capping Site Plan 1 of 2

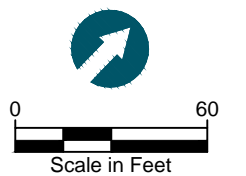
Feb 06, 2015 12:34pm epipkin



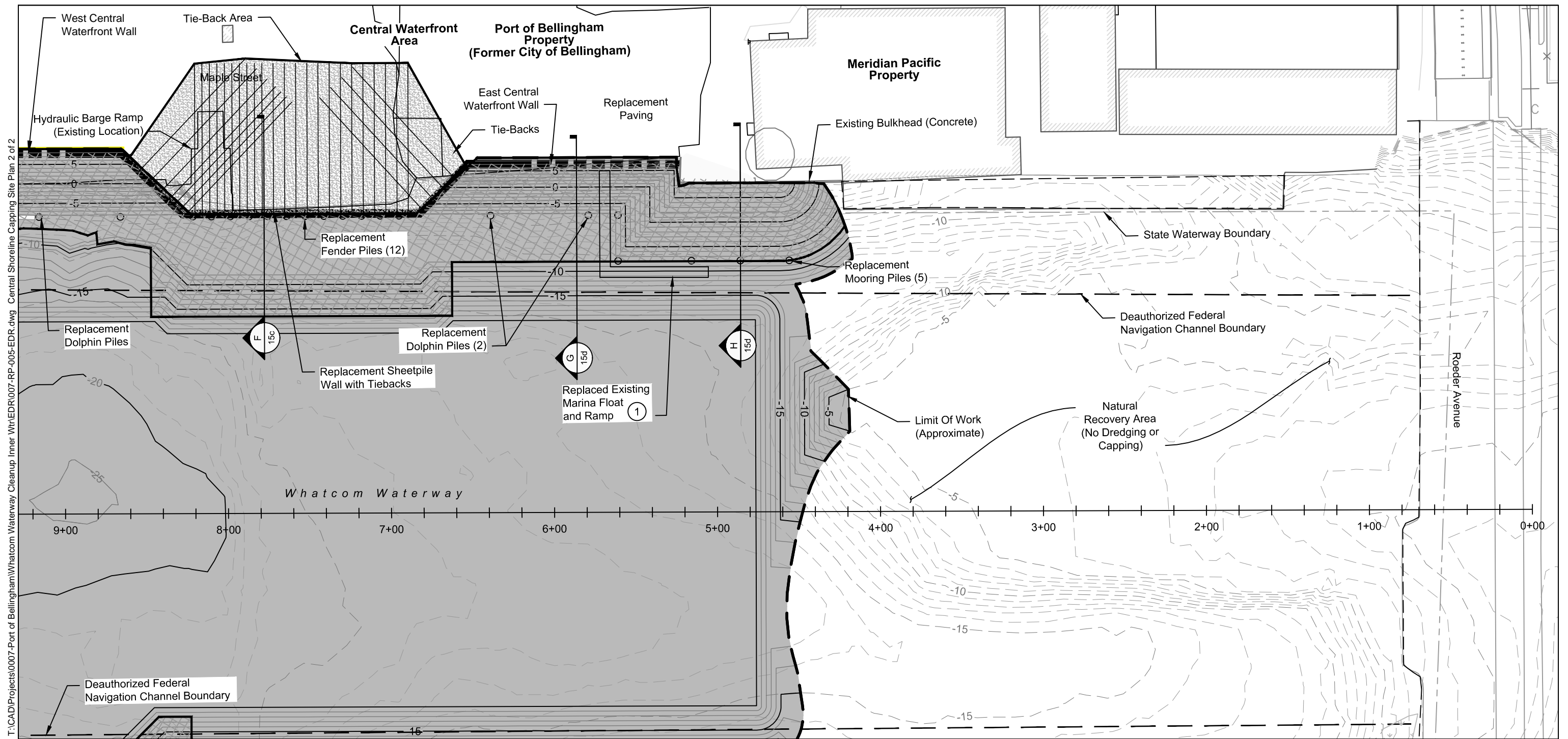
**SOURCE:** Drawing prepared from bathymetric survey provided by Wilson Engineering.  
**HORIZONTAL DATUM:** Washington State Plane North, NAD83, Feet.  
**VERTICAL DATUM:** Mean Lower Low Water (MLLW), Feet.

**LEGEND:**

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



**Figure 14a**  
 Central Shoreline Capping Site Plan 1 of 2  
 Final Engineering Design Report  
 Whatcom Waterway Cleanup in Phase 1 Site Areas



T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wt\EDR\007-RP-005-EDR.dwg Central Shoreline Capping Site Plan 2 of 2

Feb 24, 2015 9:28am 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.

**NOTE:**  
 1. Final locations of replaced float and pilings will be determined in coordination with WDFW and USACE.

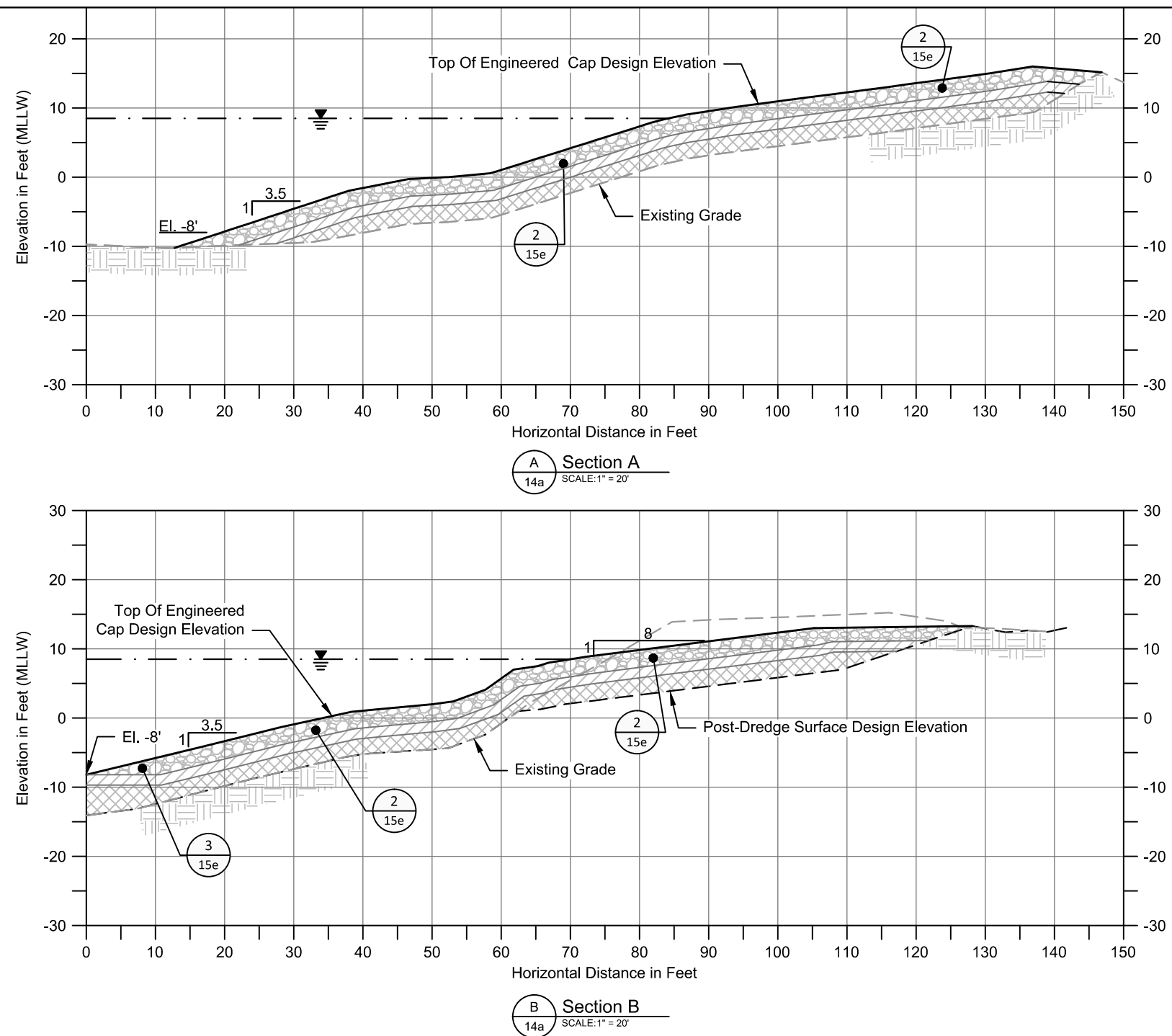
**LEGEND:**

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

Scale in Feet

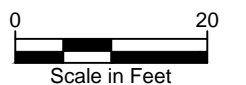


**Figure 14b**  
 Central Shoreline Capping Site Plan 2 of 2  
 Final Engineering Design Report  
 Whatcom Waterway Cleanup in Phase 1 Site Areas

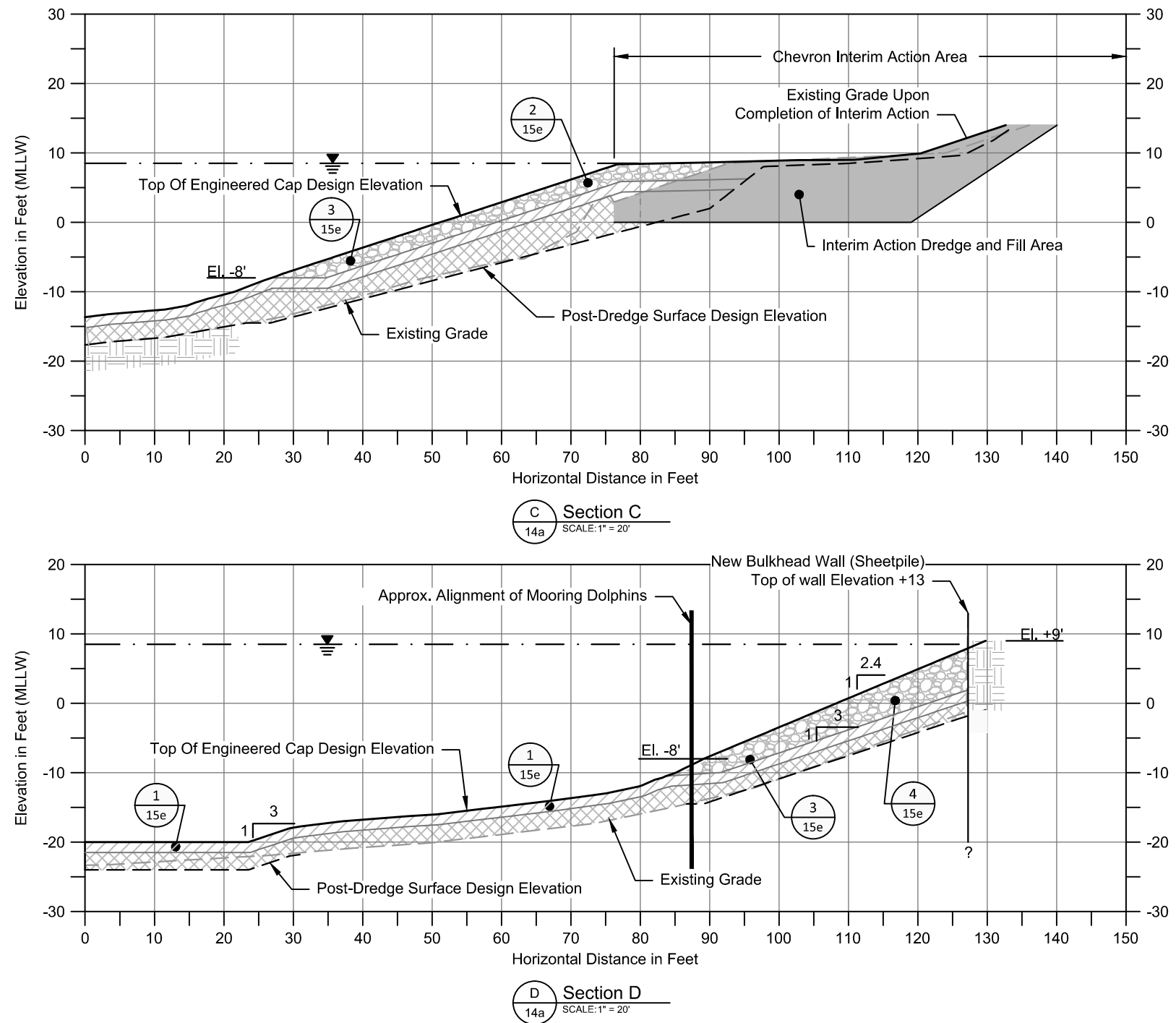


**LEGEND:**

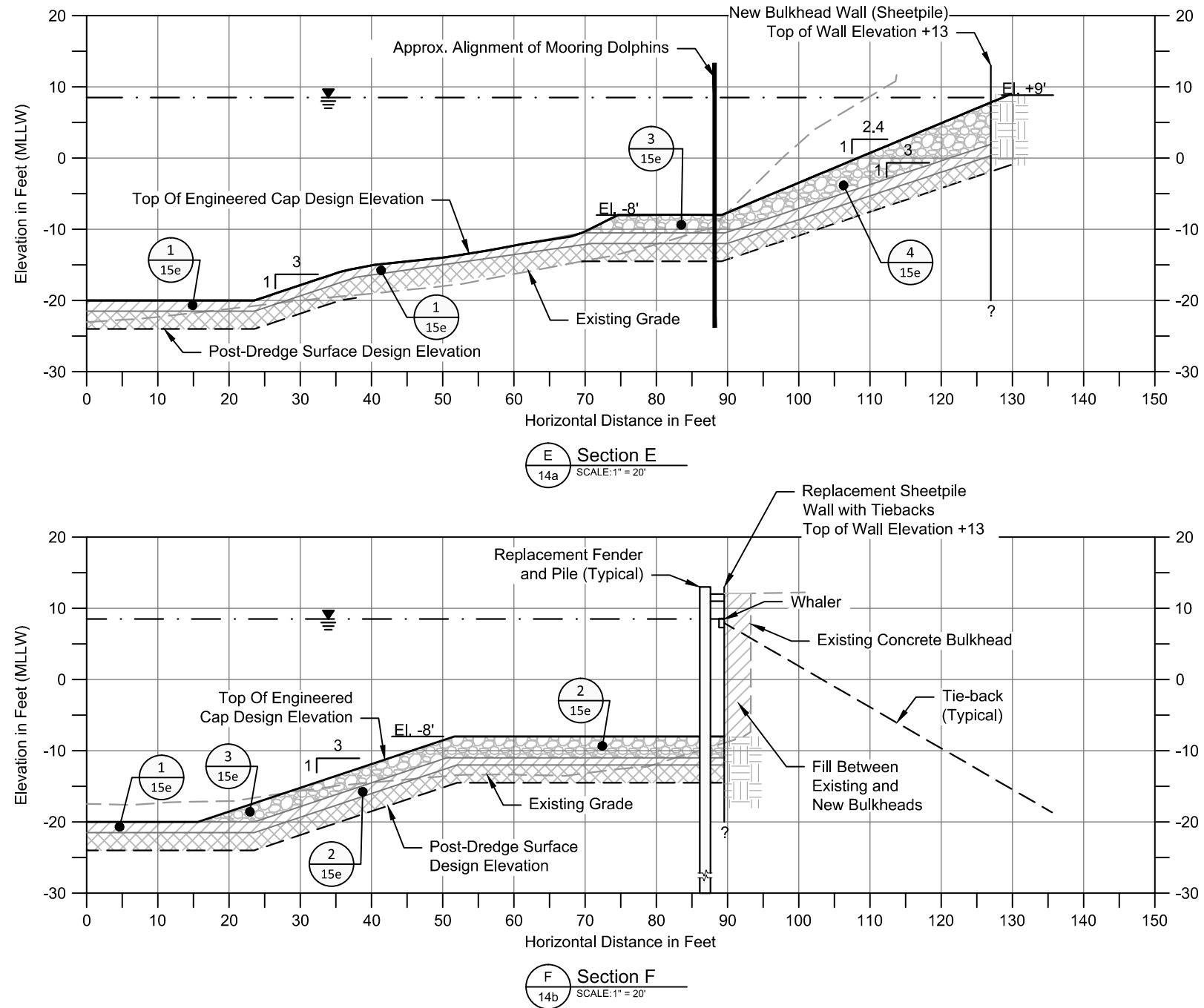
- Existing Grade
- Post-Dredge Surface
- Proposed Grade
- . - MHHW (+8.5')
- [Rock Pattern] Rock Armor Layer
- [Gravel Pattern] Gravel Armor/Gravel Filter Layer
- [Sand Pattern] Sand Layer





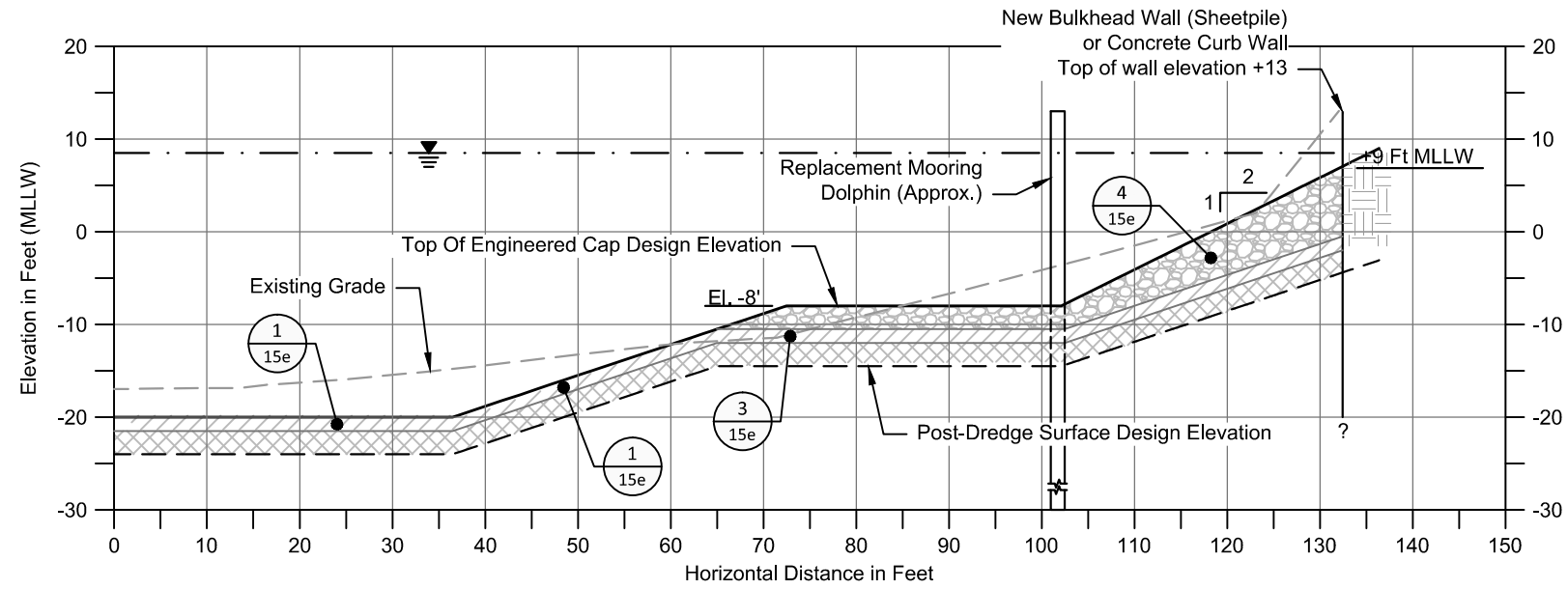


**Figure 15b**  
Central Shoreline Dredging and Capping Sections C-C' and D-D'  
Final Engineering Design Report  
Whatcom Waterway Cleanup in Phase 1 Site Areas

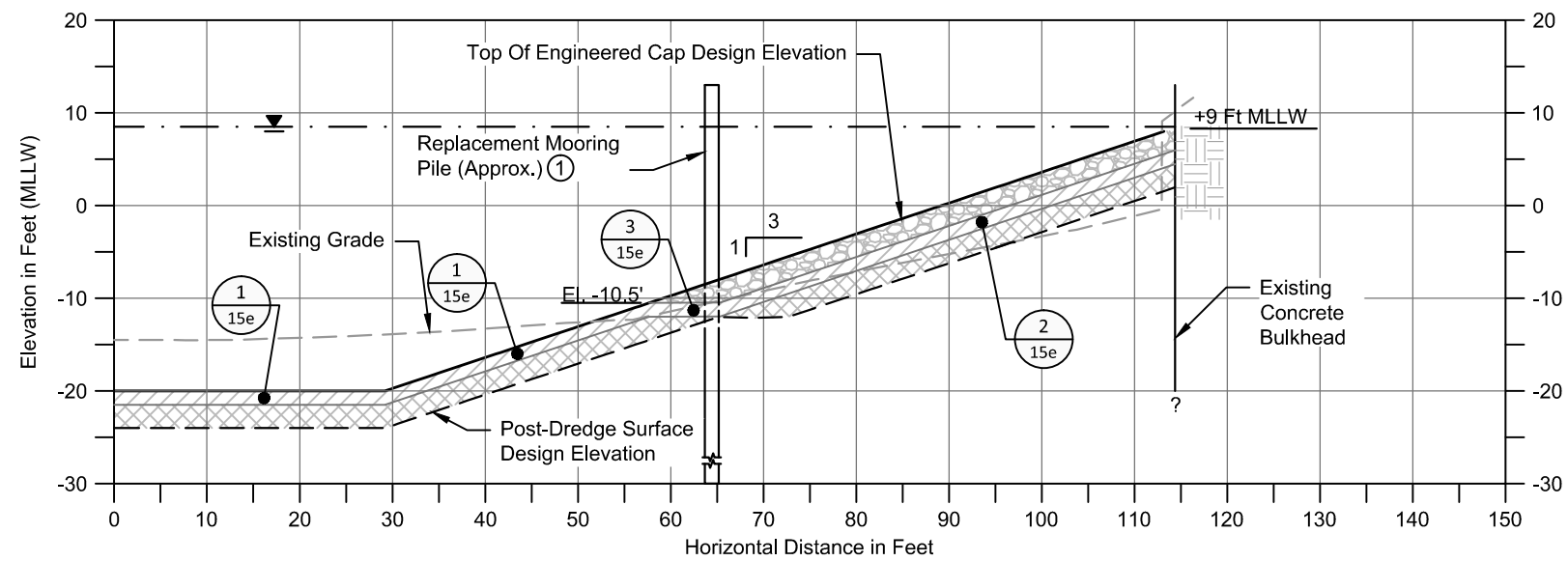


**Figure 15c**  
Central Shoreline Dredging and Capping Sections E-E' and F-F'  
Final Engineering Design Report  
Whatcom Waterway Cleanup in Phase 1 Site Areas

T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wt\EDR\007-RP-005-EDR.dwg Central Shoreline Dredging and Capping Section G-G' and H-H'



G Section G  
14b SCALE: 1" = 20'

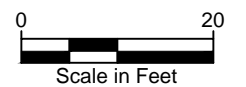


H Section H  
14b SCALE: 1" = 20'

**NOTE:**  
1. Final locations of replaced float and pilings will be determined in coordination with WDFW and USACE.

**LEGEND:**

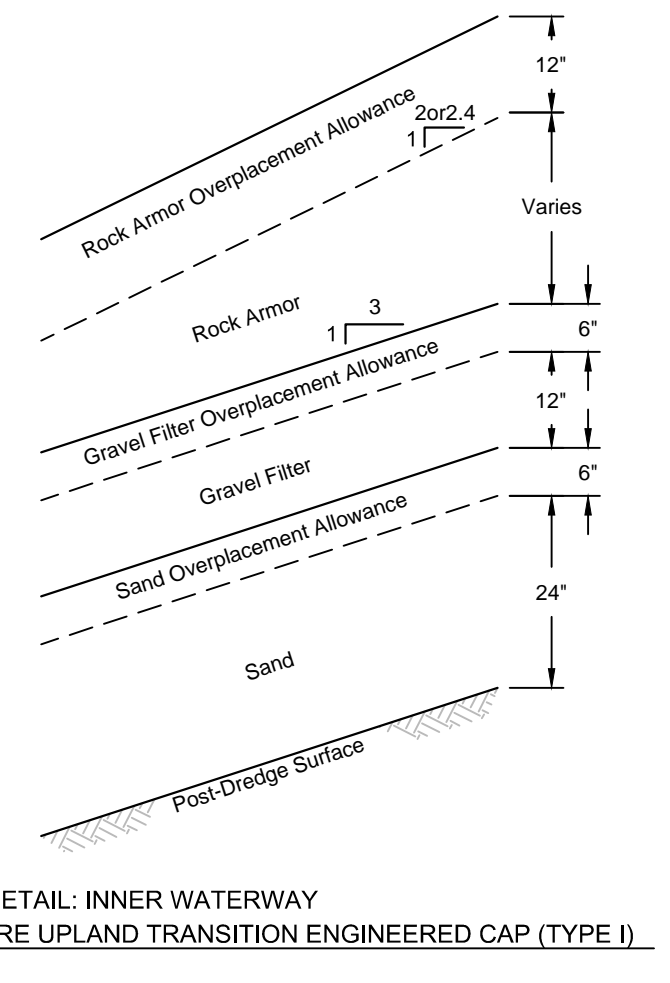
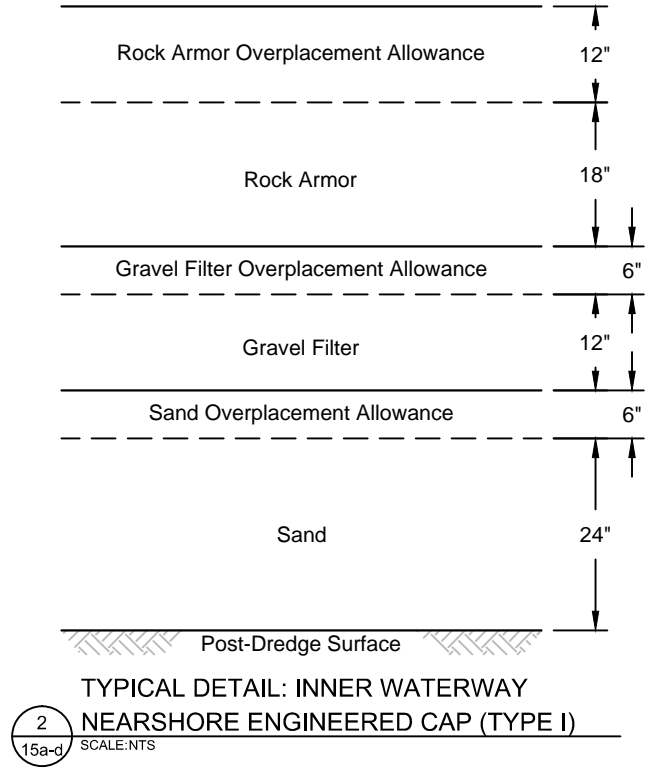
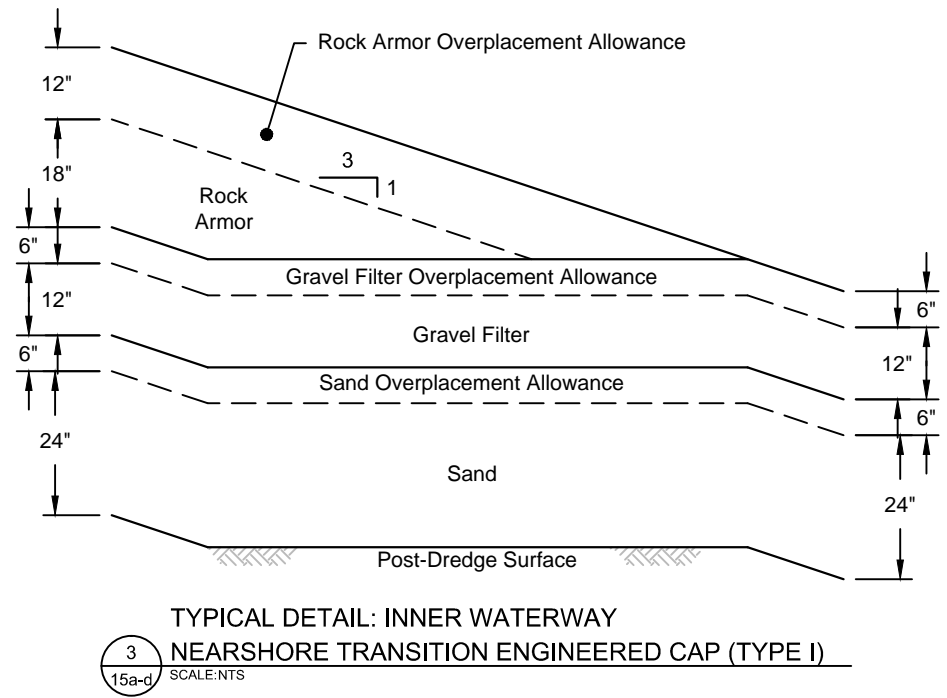
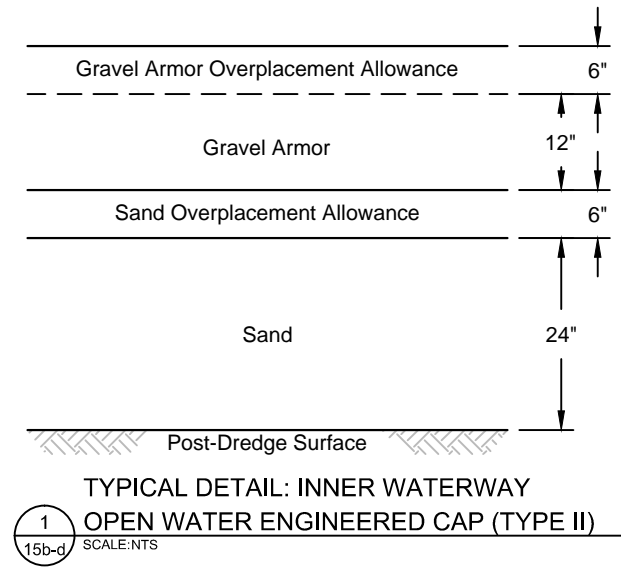
- - - Existing Grade
- - - Post-Dredge Surface
- Proposed Grade
- · - MHHW (+8.5')
- [Rock Pattern] Rock Armor Layer
- [Gravel Pattern] Gravel Armor/Gravel Filter Layer
- [Sand Pattern] Sand Layer



Feb 24, 2015 9:39am epipkin

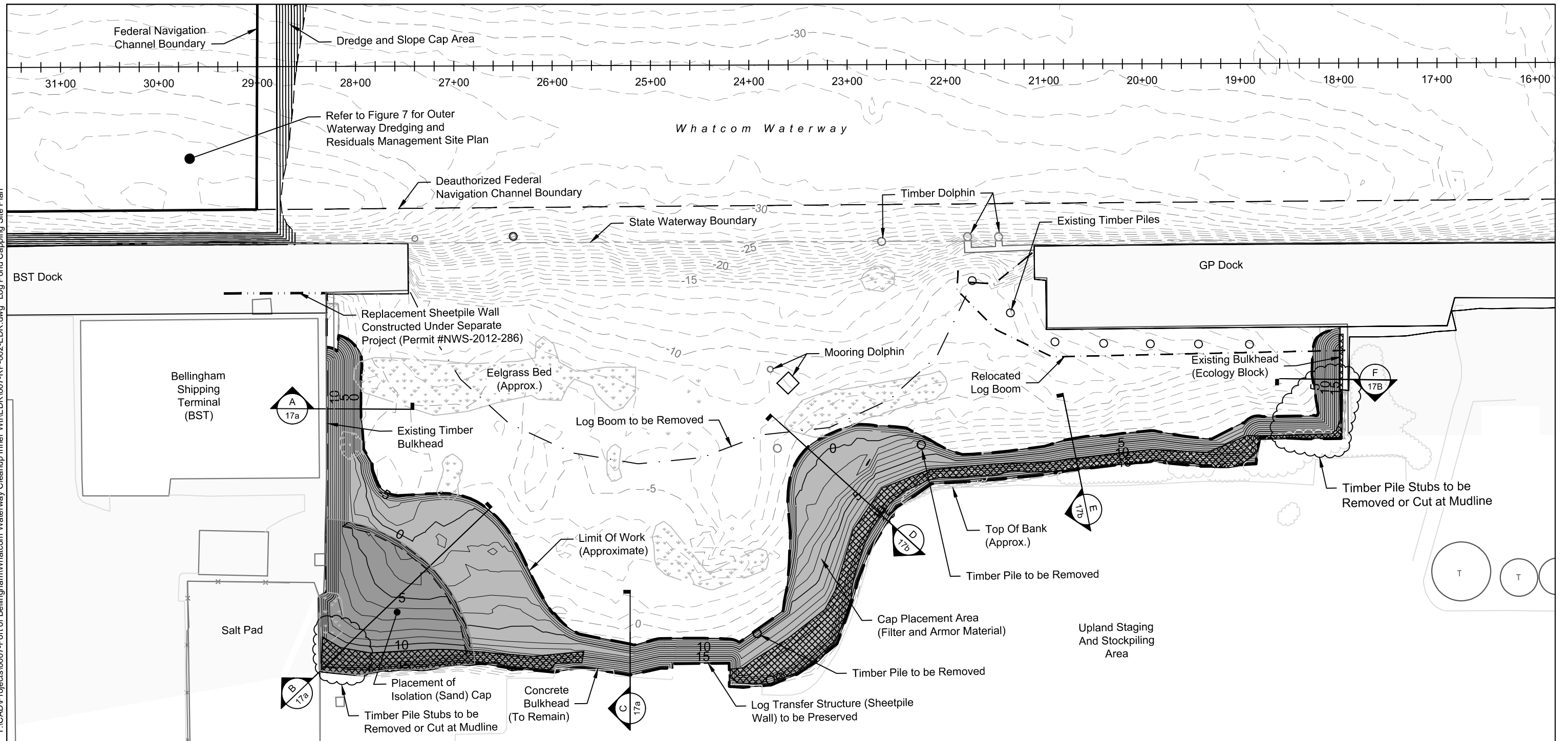


**Figure 15d**  
Central Shoreline Dredging and Capping Sections G-G' and H-H'  
Final Engineering Design Report  
Whatcom Waterway Cleanup in Phase 1 Site Areas





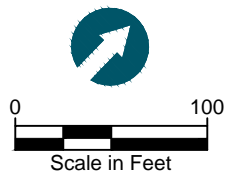
T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-002-EDR.dwg Log Pond Capping Site Plan



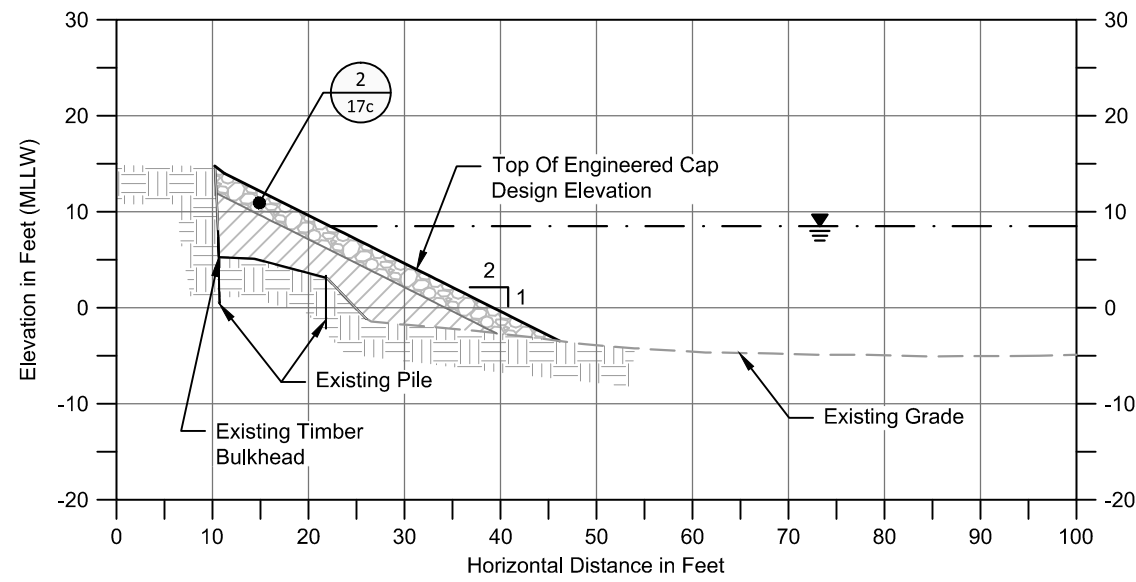
**SOURCE:** Drawing prepared from bathymetric survey provided by Wilson Engineering.  
**HORIZONTAL DATUM:** Washington State Plane North, NAD83, Feet.  
**VERTICAL DATUM:** Mean Lower Low Water (MLLW), Feet.

**LEGEND:**

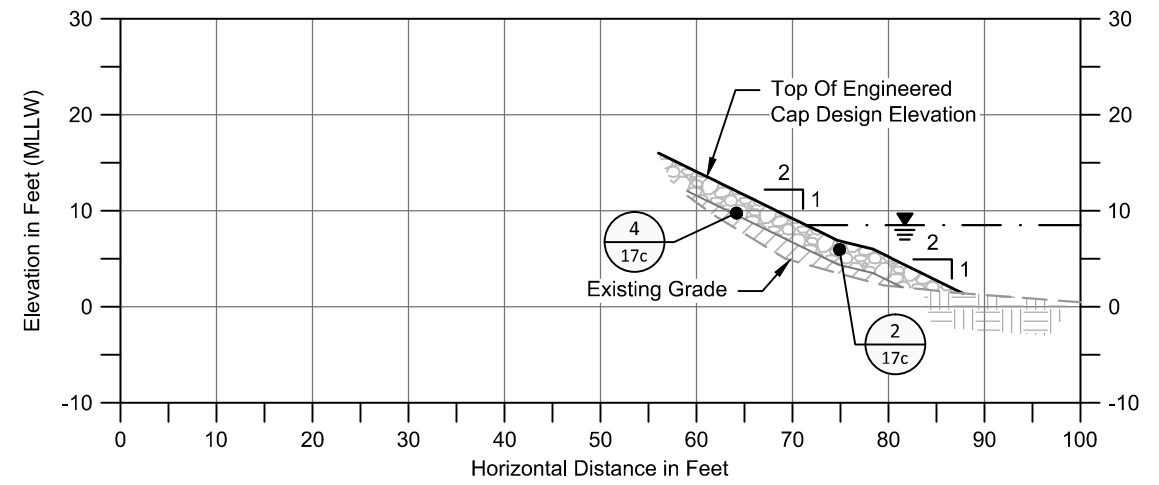
- |  |  |  |
|--|--|--|
| — — Existing Major Contour (5' Interval) | — — Proposed Major Contour (5' Interval) | ⋄ Eelgrass Bed                           |
| — — Existing Minor Contour (1' Interval) | — — Proposed Minor Contour (1' Interval) | ⊗ Structure/Shoreline Debris for Removal |
|  |  | ■ Area of Capping                        |



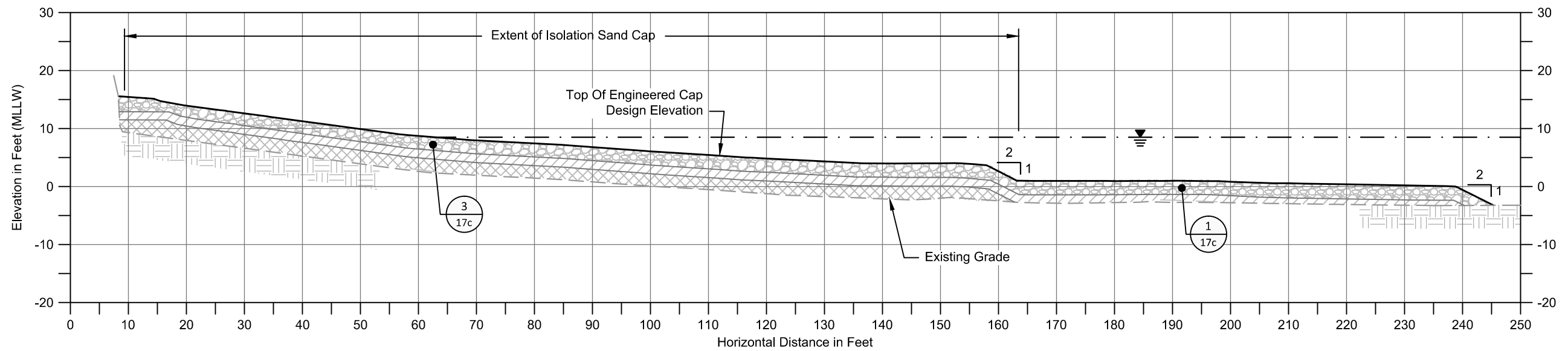
Feb 06, 2015 12:40pm epipkin



**A** Section A  
16 SCALE: 1" = 20'



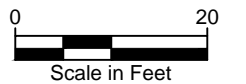
**C** Section C  
16 SCALE: 1" = 20'



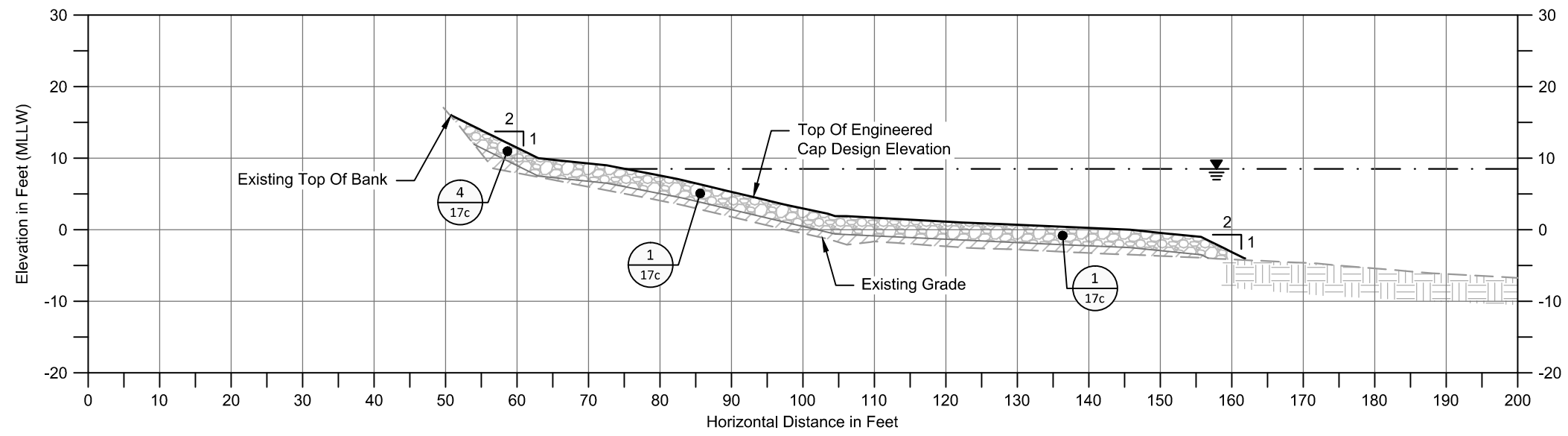
**B** Section B  
16 SCALE: 1" = 20'

**LEGEND:**

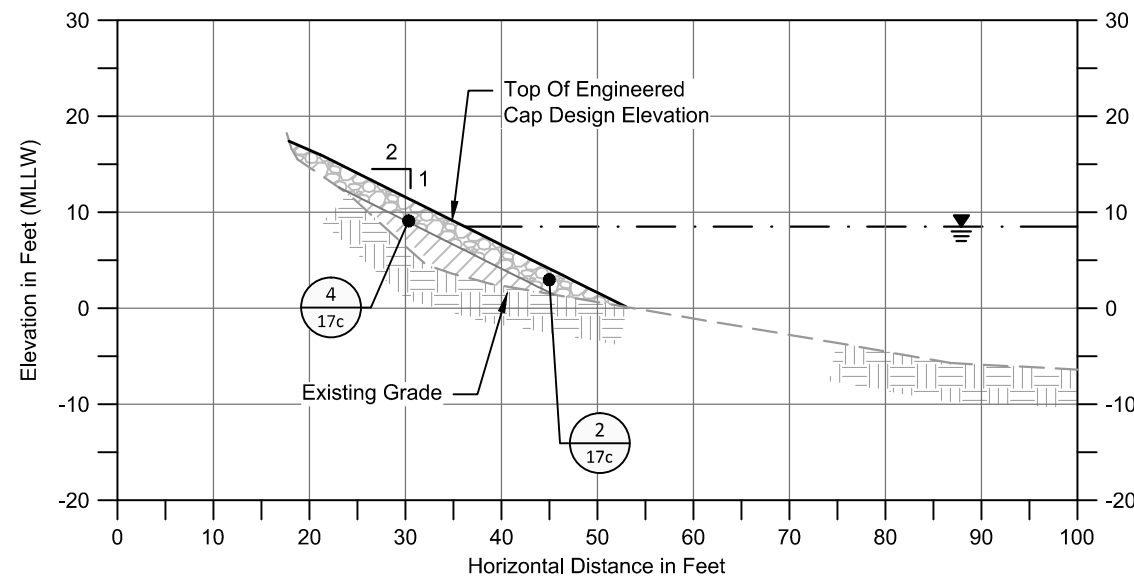
- Existing Grade
- Proposed Grade
- - - MHHW (+8.5')
- Rock Armor Layer
- Gravel Armor/Gravel Filter Layer
- Cap Layer



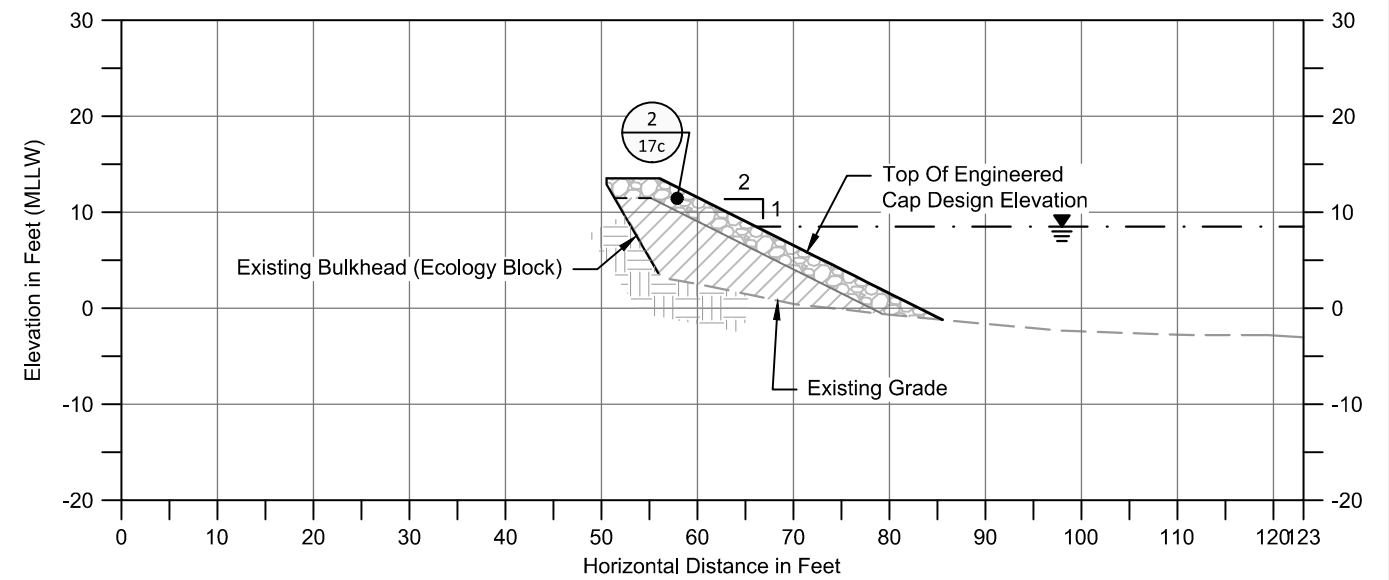
**Figure 17a**  
Log Pond Capping Sections A-A' to C-C'  
Final Engineering Design Report  
Whatcom Waterway Cleanup in Phase 1 Site Areas



**D Section D**  
SCALE: 1" = 20'



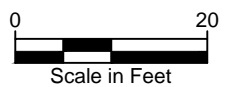
**E Section E**  
SCALE: 1" = 20'



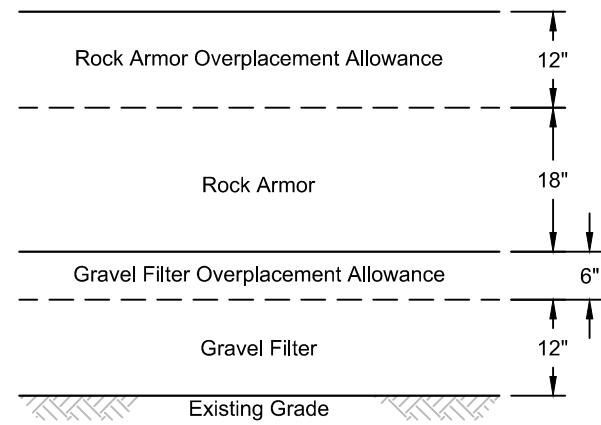
**F Section F**  
SCALE: 1" = 20'

**LEGEND:**

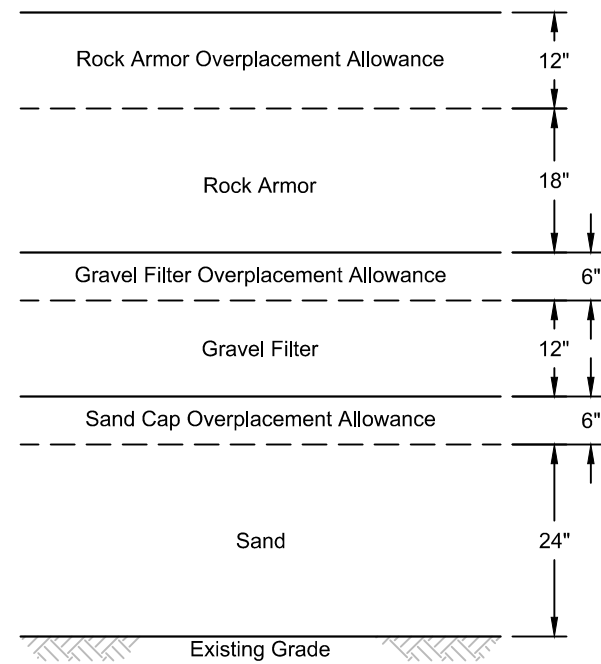
- Existing Grade
- Proposed Grade
- · - MHHW (+8.5')
- Rock Armor Layer
- Gravel Armor/Gravel Filter Layer
- Cap Layer



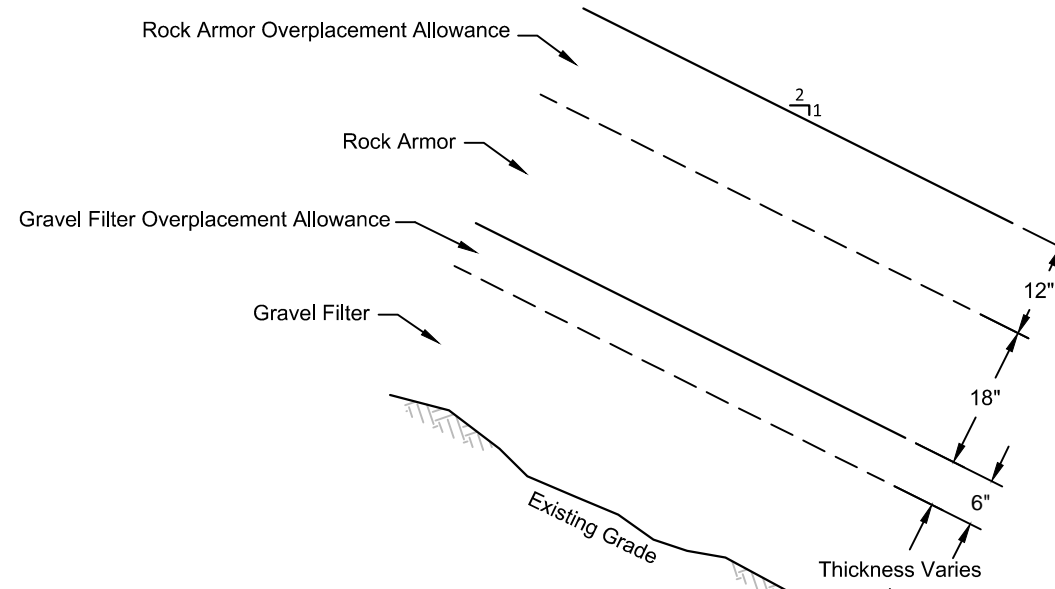
T:\CAD\Projects\0007-Port of Bellingham\Whatcom Waterway Cleanup Inner Wtr\EDR\007-RP-002-EDR.dwg Log Pond Capping Details



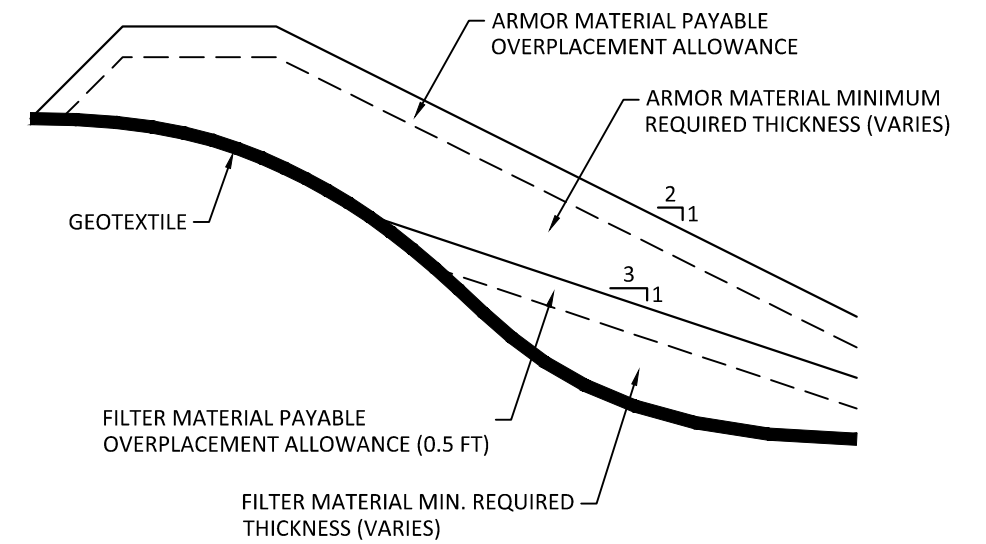
1 TYPICAL DETAIL: LOG POND ENGINEERED CAP (TYPE III)  
17a,b SCALE: NTS



3 TYPICAL DETAIL: LOG POND ENGINEERED CAP (TYPE I)  
17a SCALE: NTS



2 TYPICAL DETAIL: LOG POND SLOPE ENGINEERED CAP FRONTING BULKHEADS (TYPE III)  
17a,b SCALE: NTS



4 TYPICAL DETAIL: LOG POND GEOTEXTILE CAP AREA (TYPE II)  
17a,b SCALE: NTS

Feb 06, 2015 12:40pm epipkin