28TH STREET IMPROVEMENTS

PORT OF GRAYS HARBOR - WDFW MITIGATION PLAN

APRIL 12, 2016

1. PROJECT HISTORY

Improvements to the 28th Street Boat Launch Facility in Aberdeen was developed as a replacement and expansion of the existing facility where the following would occur:

1. Demolition of existing float (west of ramp)
2. Demolition of existing debris reflector
3. Shoreline protection / enhancements
4. Construction of a new debris deflector
5. Construction of a new replacement float (west)
6. **Demolition of the exiting launch ramp**
7. **Construction of a new boat ramp (wider)**
8. **Construction of a new float (east)**
9. **Upland improvements such as paved parking, restrooms, and lighting.**

Permitting efforts were initiated for the full project. However, funding efforts were not successful, so in late 2012 the decision was made to pursue a replacement project (Phase 1) which included items 1 through 5 above – but the approach was modified to repair the existing boat ramp instead of replacement (items 6 and 7).

Permitting for the smaller project was completed and construction of Phase 1 was completed in 2015.

2. CURRENT PROJECT PHASE

Efforts for funding the remainder of the project (Phase 2) were successful also in 2015, so a new project is proposed consisting of **completion of items 6, 7, 8, and 9 above**.

Planned improvements include a new set of pilings and floats on the east side of the existing boat launch, replacement and enlargement of the existing boat launch (two lanes), paving of the area parking, construction of a permanent bathroom facility, improved area lighting, and improved parking and paving along 28th Street.

Project Detail:

1. Replace the existing 25-foot-wide boat launch ramp with a 30–foot-wide concrete launch ramp to increase the usability and safety of boaters using the ramp. Industry standard design criteria for boat launch ramps state that two-lane boat launch ramps should be 30 feet wide. This will represent approximately 500 square feet of benthic impact.

2. Install eight new (8' x 20') precast concrete access floats on the east (upstream side) of the boat launch. These are required to increase usability of the second launch lane. This represents approximately 1280 square feet of over water impact.

3. Install approximately eight 16-inch steel piles to horizontally support the precast concrete access floats. Install 10-inch piles to vertically support the precast concrete access floats. A total of 36 of these piles (all but two of the piles) will be installed below the MHHW. This will represent approximately 40 square feet of new benthic impact

4. Install a new abutment adjacent to the upland end of the proposed new floats.

5. Install approximately 40,000 square feet of pavement at the boat launch and along 28th Street for additional parking and traffic flow improvements.

6. Provide a Restroom Facility connected to water and sewer.

7. Install nine new light fixtures on existing power poles at the existing parking lot and along 28th Street.

3. SUMMARY OF IMPACTS TO HABITAT

As identified above, the combination of a new easterly float system and the new larger boat ramp will result in approximately:

- 540 square feet of benthic impact

- 1280 square feet of over-water (shading) impact.

4. PROPOSED MITIGATION

Impacts from the wider ramp and new set of floats at 28th street are:

- 500 sq. ft. of intertidal and benthic impacts – wider ramp
- 40 sq. ft. of intertidal and benthic impacts – new pilings
- 1280 sq. ft. of over water impacts (shading).

The mitigation is proposed for an area known as "Aberdeen Landing" (Figures 1). This is near Walmart in East Aberdeen, and at the mouth of the Wishkah River. The proposed mitigation would consist of (Figures 2-7):

- 160 sq. ft. of over water (dock structure) removal.
- 1250 sq. ft. of over water (long boat storage facility) removal.x
- Approximately 2160 sq. ft. of intertidal & benthic improvement.
- General beach clean-up of an additional 3000 sq. ft. of beach.

This will involve (Figure 3 and 3A and 3B):

- Removal of the overwater (approximately 8x20') structure and associated and nearby creosote pilings (approximately 20).
- Removal of the overwater "long boat" storage facility (approximately 1250 sq. ft.) at the Port's Aberdeen Landing dock.
- Beach Renovation: Removal of rip rap and inappropriately sized rock in an approximate 2,160 square feet of intertidal area.
- General beach clean-up (concrete removal – rip/rap repair – collection removal of rip-rap remnants (an additional 3000 square feet).
- Placement of coble (6 in minus) sized rock across the beach to re-establish a gravel / rock substrate.

5. RATIONALE

In Grays Harbor, nearshore benthic impacts from construction debris, degraded and inappropriately sized and placed rip rap materials, and refuse of various types might be considered the single largest environmental impact to aquatic species. This mitigation approach gives priority to addressing this degraded aquatic habitat.

The ratio of benthic improvements to benthic impact will be 4:1.

Overwater mitigation will exceed 1:1.

The action is in an area where public access is encouraged (paved walking trail and compass rose).

There is an old boat launch at this location, and with some maintenance, it can provide public access for such things as kayak launch, etc. Even without maintenance, the water is accessible without much difficulty.

The context of this project involves a new and expanded public facility that will provide enhanced recreational opportunity to the general public, is funded by the Port of Grays Harbor and the Recreation Conservation Office, and will be maintained by the Port of Grays Harbor.

6. METHODS

6.1 Overwater Structure (Old Dock) Removal

Piling removal will require equipment on the beach. An excavator will be moved onto the beach using the boat ramp access. The excavator will be used to disassemble the overwater structure. The structure will be loaded to a truck and disposed at an upland location approved for disposal of such materials.

6.2 Overwater Structure (Long-Boat Storage) Removal

This facility is a floating structure, and will be moved to the old boat launch, dismantled, and removed from the water.

6.3 Piling Removal

The excavator will be used to pull the overwater support piles and other piles in the area. If the piles cannot be pulled, then they will be broken off or cut off at least three feet below substrate elevation. Holes will be backfilled with clean sand. Pilings and piling remnants will be loaded in a truck and transported to an upland location approved for disposal / placement of such materials.

6.4 Rip-Rap / Rock Removal and General Beach Clean-up

A small tracked loader (suitable for picking up the debris, old rip-rap, or inappropriately sized rock) will be brought onto the beach using the old boat ramp. Debris and other materials from the beach clean-up will be taken off the beach, sorted, and transported and placed in a suitable disposal / placement location for the materials (e.g. refuse to a landfill, rock to a upland location).

6.5 Cobble beach placement

New substrate (6” minus river – cobble rock) will be provided to the beach by front end tracked loader or by loader from the dock, the spread by the tracked loader. At least 6 inches of this material will cover the renovated beach area (approximately 2000 sq. ft. or 40 yards of material)

6.6 Rip-Rap Repair

The port will repair the rip-rap protection on the northwest corner of the “compass rose” structure – by removing small pieces of rip-rap from the beach and placing this rock on the bank line where it was originally placed.

7. SCHEDULE

The project will be conducted in the same timeframe as the work on 28th Street Boat Launch improvements – currently scheduled for 2016.

28th Street Improvements Phase 2 - Proposed Mitigation

Figure 1.jpg

Figure 2.jpg

Figure 3.jpg

Figure 3A.jpg

Figure 3B.JPG

Figure 4.jpg

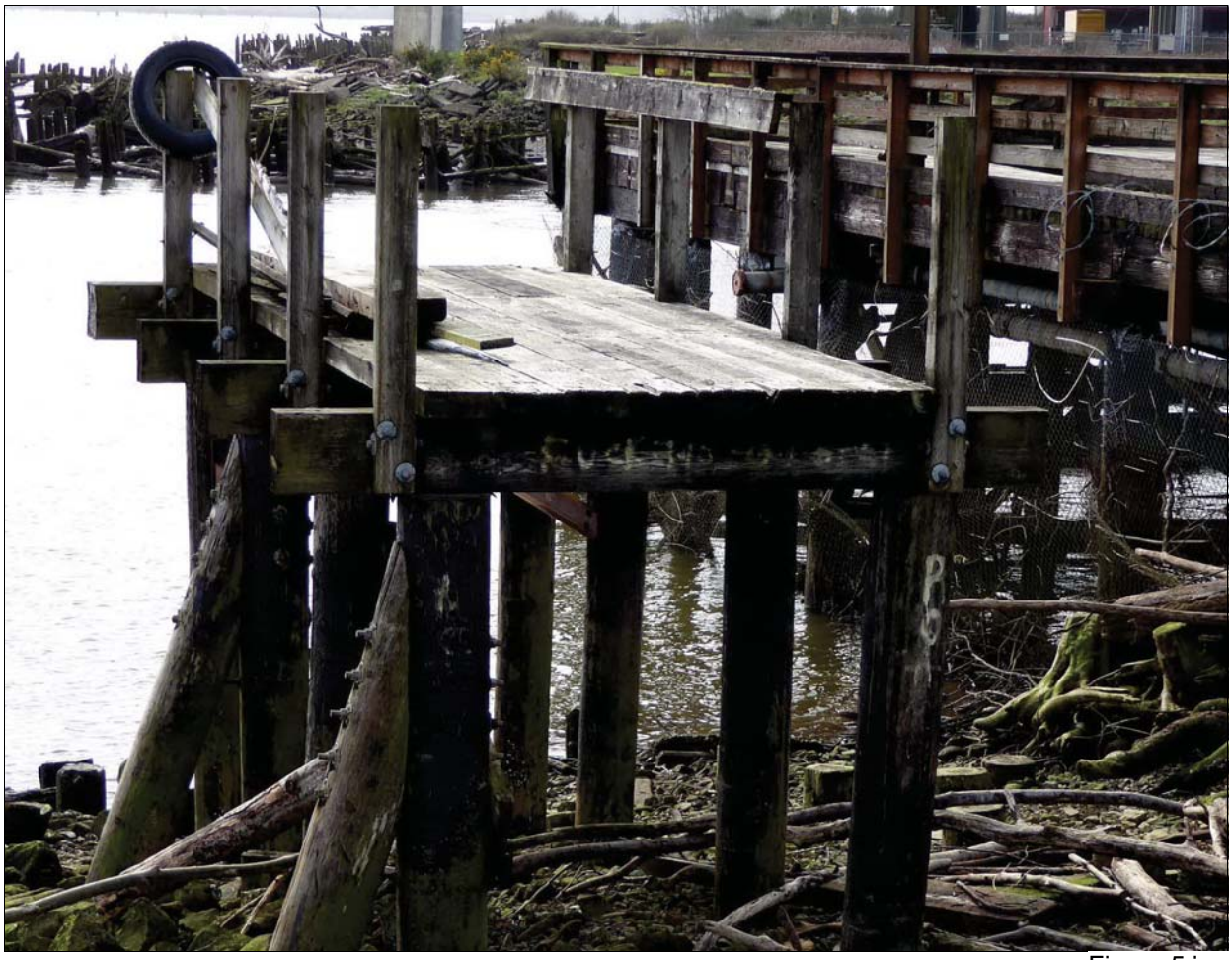

Figure 5.jpg

Figure 6.jpg

Figure 7.jpg