# General Notes:
1. All construction activities shall be performed in accordance with applicable federal, state, and county permit requirements and conditions.
2. Restoration plantings will be completed by the owner following King County Roads Project closeout.
3. Topographic information provided by King County, 1/36 scale, GRS 1983.

## Material Specifications:
1. All stopper logs shall be 15'-24" minimum diameter at the smallest cut end, 24'-30" minimum diameter at the largest cut end, and supplied at 30 feet long and cut to fit.
2. Buffer logs shall be 24" minimum diameter at the smallest cut end, 30" minimum diameter at the largest cut end, and supplied at 30 feet long and cut to fit.
3. All improved logs shall be derived from Douglas Fir or western red cedar trees.
4. Willow cuttings shall be supplied by King County.
5. Large size riprap, larger sizes will be filled with heavy wood (specify the wood used), standard size log shall be used.
6. All riprap shall be native alluvium.
7. Chain for logging shall be 1/2" iron diameter long link (specify chain length in feet and weight in lbs).
8. Shackles shall be 5/8" iron safety shackles (specify number).
9. Pins shall be 1" iron diameter non-galvanized all-thread.
10. Improved timber shall be 3" diameter.

## Fish Exclusion Notes:
1. The project action area will be carefully monitored during the construction period. Fish species present in the construction area shall be excluded from the construction site.
2. All riprap construction measures shall be excluded from the construction site.
3. A Closure Survey will be conducted to the water prior to construction to ensure the integrity of the structure.
4. A Low-Impact Construction Measures will help minimize the amount of disturbance to the fish species present in the area.
5. During the construction period, the water in the area shall be monitored to ensure the integrity of the structure.

## Willow Harvesting Notes:
1. Harvest cuttings from existing willows growing on top of ELUs.
2. Cut from healthy live wood that is at least one year old.
3. Make a clean angular cut at the butt end, allow facing upward.
4. Cuttings should be 3 to 5 feet long and a minimum of 1 inch in diameter. Cuttings can be cut with side branches.
5. Prune branches off the lower half of the cutting; cutting branches just above the branch collar.
6. Store the fresh willow cuttings with bottom half of the cutting submerged in minimum 1 foot of depth in cool water at a static area of the project site, with NGO oversight.
7. Do not store for longer than 5 days.
8. Store all cuttings a minimum of 24 hours before installing.

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**Abbreviations:***
- **AP** - Approximate
- **BM** - Benchmark
- **CL** - Chain
- **D** - Diameter
- **E** - Ellipse
- **F** - Foot
- **L** - Length
- **M** - Meter
- **R** - Radius
- **S** - Channel
- **W** - Width

**Legend:**
- **Easting**
- **Northing**
- **Datum**
- **Part of**
- **Source**

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**Table:**

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**Contact:**

- **Name:**
- **Phone:**
- **Email:**

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**King County National Monument System:**
- **Location:**
- **Area:**
- **Date:**

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**CEDAR RAPIDS ELL # 46 MAINTENANCE REPAIR**
- **Sheet:**
- **Scale:**
- **WSDOT:**

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**General Notes and Material Specifications**
- **Date:**
- **Author:**
- **Revision:**
TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) NOTES:

1. The implementation of TESC plans and the construction, maintenance, replacement, and clearing of TESC facilities is the responsibility of the King County Roads Department until all construction is approved.

2. The TESC facilities shown on this sheet must be constructed prior to the construction of any roads and bridges so as to ensure that the transportation of sediment to surface waters, drainage systems, and adjacent properties is minimized.

3. The TESC facilities shown on this sheet are the minimum requirements for controlling surface water conditions during the construction period. These TESC facilities shall be established at such times and places as to ensure the prevention of erosion and sedimentation as necessary to comply with the requirements of this manual.

4. The TESC facilities shall be inspected early in the King County Roads Department’s TESC supervision and maintained as necessary.

5. All stormwater facilities shall be tested and maintained within the construction limits shown on the plans using standard practices as necessary to control erosion, sediment transport, and turbidity.

6. Any areas of exposed soils that will not be developed for the first sixty days shall be protected with TESC methods (e.g., plastic covering).

7. Any areas exposed to excessive weather shall be protected with adequate materials.

8. The TESC facilities on project sites shall be inspected and maintained within thirty days after the project is completed.

9. At completion of construction, King County Roads Department shall be responsible for maintaining the stormwater control, any washout pond, or any stormwater facility that may be required.

10. All proposed roads used for project and other roads will be kept clear of sediment accumulation by rainwater and if necessary, spreading, and or, sediment control methods used for project and road systems. Hand brooms and other appropriate tools shall be used to remove sediment from project areas that will be entered the roadbed and exterior boundary areas.

11. Install batters, down gradient of disturbed and bare soils as needed to control erosion.
NOTES:
1. FOLLOWING INSTALLATION OF STOPPED LOSS AND IMPELLER, INSTALL WITH ALLOWANCE AND STUDS CONTACT TO MATCH GRADES EXISTING.
2. PUMP FILL HOLES IN LOSS WITH LARGE DIAMETER RODS AS FEASIBLE THEN BACKFILL REMAINING HOLES WITH BACK GRADED REPAIR MIX.

SEQUENCING NOTES:
1. INSTALL TEE MEASURES.
2. CONDUCT DRY EXCAVATION. SEE NOTES ON SHEET 2.
3. HARDEN HOLLOW OUTINGS FROM TOP OF ELL. SEE NOTES ON SHEET 2.
4. CAREFULLY EXCAVATE TO EXPOSE TOP LAYER LOSS, REMOVE LANDING, AND SAVAGE LOSS.
5. BUCKFILL HOLES IN LOSS WITH IMPPELLER UP TO BOTTOM OF PROPOSED STOPPED LOSS.
6. PLACE STOPPED LOSS, TRIMMER LOSS, AND LANDING.
7. REPLACE TOP LAYER LOSS AND LANDING.
8. CAP ALL WATERSHED WITH NATIVE ALLOWANCES AND SLAB MOUNTED WORK PAVEMENT (NOT SHOWN) AS REQUIRED TO RESTORE GRADES, PLACE IMPORTED TOPSOIL, AND ENSURE NATIVE ALLOWANCE.