





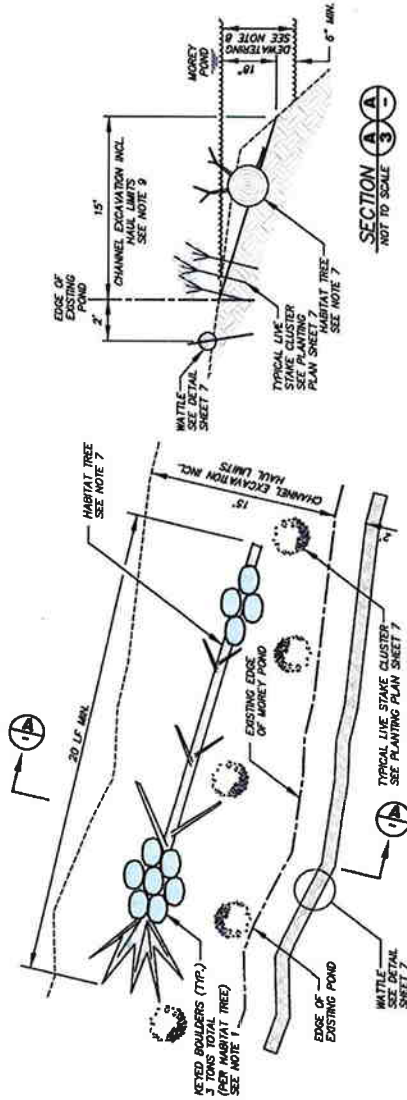




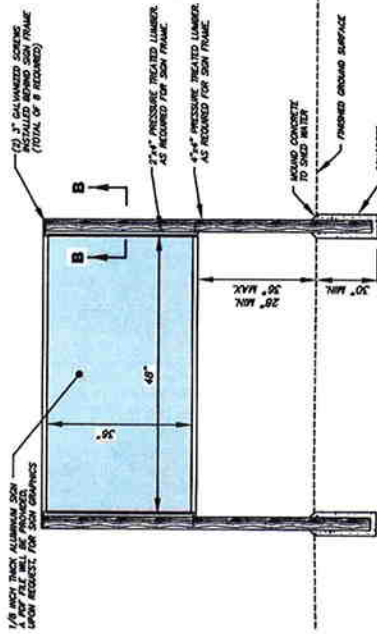


**GENERAL DAM BYPASS CHANNEL NOTES**

1. SEE SPECIAL PROVISIONS "TRAMP" FOR THE FOLLOWING ITEMS:
  - CHANNEL FOUNDATION
  - CHANNEL LINING
  - STABILIZED GRAVEL
  - CHUTE CORNERS
2. THE CONTRACTOR WILL PROVIDE CHANNEL SLOPE STAKING DATA (LIMITS OF CHANNEL EXCAVATION INCL. HALLS). ALL CHANNEL SLOPE DATUMS WILL BE STAKED IN THE FIELD BY THE CONTRACTOR IN ADVANCE OF CHANNEL EXCAVATION ACTIVITIES. NO CHANNEL EXCAVATION SHALL BE ALLOWED OUTSIDE THE STATIONING LIMITS UNLESS OTHERWISE DIRECTED BY THE ENGINEER. CHANNEL EXCAVATION SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS "ROADWAY EXCAVATION AND EMBANKMENT" AND "ARCHAEOLOGICAL AND HISTORICAL SALVAGE".
3. HORIZONTAL IN-CHANNEL KEED BOLLARDS SHALL BE PLACED IN A DIAGONAL PATTERN (4 EACH) AS DETAIL 1. EACH BOLLARD SHALL BE EMBEDDED VERTICALLY 1/2 THE WAY INTO THE STREAMBED CHANNEL. OTHER BOLLARDS SHALL ALSO BE EMBEDDED 1/3 HORIZONTALLY INTO THE SIDE SLOPES.
4. NATIVE BOLLARD SHALL TO BE PLACED BEFORE SHOWING ON PLANS AND PER SPECIAL PROVISIONS "ROADWAY EXCAVATION AND EMBANKMENT". THE TOP 8" OF NATIVE BOLLARD MATERIAL SHALL ONLY BE LOOSELY COMPACTED PRIOR TO SEEDING, FERTILIZING, AND MULCHING.
5. KEED BOLLARDS SHALL BE PLACED ALONG THE OUTSIDE CHANNEL FACE TO FORM A SMALL UNDER EMBEDDED POOL LOSS. THE KEED BOLLARDS ALONG THE FACE SHALL TRANSITION FROM APPROX. 1:1 SLOPE AT "ENTERING TANGENT SECTION" EMBEDDED POOL LOSS TO NEAR VERTICAL AT THE POOL CENTER, AND BACK TO APPROX. 1:1 SLOPE AT "EXITING TANGENT SECTION" EMBEDDED POOL LOSS. SEE SECTION 4 OF THIS SHEET.
6. PLACE DOUBLE RED CONTROL LOGS AT THE STATIONS SHOWN ON THE PLANS AND AS DETAIL 6. THE RED CONTROL LOG AT THE STATIONING POINT SHALL BE PLACED AT THE CENTER OF THE CHANNEL. THE REMAINING LOGS SHALL BE PLACED AT THE CORNERS OF THE CHANNEL MATERIAL PROFILES 3'-4" COVER OVER THE FINISHED TOP RED CONTROL LOG. PRELIMINARY 3/4" DIA. HOLES THRU BOTH LOGS 4" FROM EACH END AS DETAIL 4. A 10'-0" LONG #8 REBAR PIN SHALL BE DRIVEN THRU THE PREDRILLED HOLES AND INTO NATIVE SOIL. A 1/2" DIA. 10'-0" LONG #8 REBAR PIN SHALL BE DRIVEN THRU THE PREDRILLED HOLES AND INTO NATIVE SOIL. THE REBAR PINS SHALL BE DRIVEN IN AN ADDITION 1" INTO THE TOP LOG. ALL REBAR MATERIAL AND INSTALLATION SHALL BE INCIDENTAL TO THE PAY ITEM "DOUBLE RED CONTROL LOG". SEE SPECIAL PROVISIONS "DOUBLE RED CONTROL LOG".
7. AS DIRECTED BY THE ENGINEER, MARKED TREES TAKEN FROM SITE SHALL BE USED AS HABITAT TREES. TREES TAKEN FROM SITE SHALL REMAIN "UNDISTURBED" AND BE FLAGGED, AND MARKED BY THE ENGINEER WITH (60). TREES THAT WILL BE USED AS "CLEANING AND GRUBBING" SHALL BE FLAGGED, AND MARKED BY THE ENGINEER WITH (60A). TREES THAT WILL BE USED AS "HABITAT FEATURES" SHALL BE FLAGGED, AND MARKED BY THE ENGINEER WITH (60B). ALL TREES THAT ARE FLAGGED AND MARKED AS "UNDISTURBED" (60), AS NOT TO DAMAGE THEIR BARK, AND ROOTS. SEE SHEET 4 AND SPECIAL PROVISIONS "HABITAT FEATURE" AND "CLEANING AND GRUBBING".
8. DEWATERING SHALL BE DONE IN ACCORDANCE TO COVER SHEET 1 - GENERAL NOTE 2.
9. WATTELS SHALL BE INSTALLED PER SHEET 6.
10. SEE SHEET 4 CHANNEL GRADING TABLES FOR TYPICAL CHANNEL SECTION VARIABLE WIDTHS AND DATELINE CUT SLOPES.

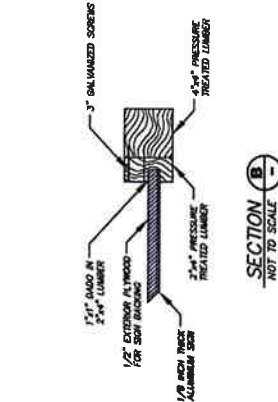


**TYPICAL JUVENILE HABITAT BENCH DETAIL**  
NOT TO SCALE



**PROJECT SIGN DETAIL**  
NOT TO SCALE

SEE SPECIAL PROVISIONS "CHAIN LINK AND WIRE FENCE"



**HABITAT STUMP DETAIL**  
NOT TO SCALE

STA 78+ 1+84.00

DATE	BY	REVISION

NO.	DATE	BY	APPROVED

DATE	BY	REVISION

DATE	BY	REVISION

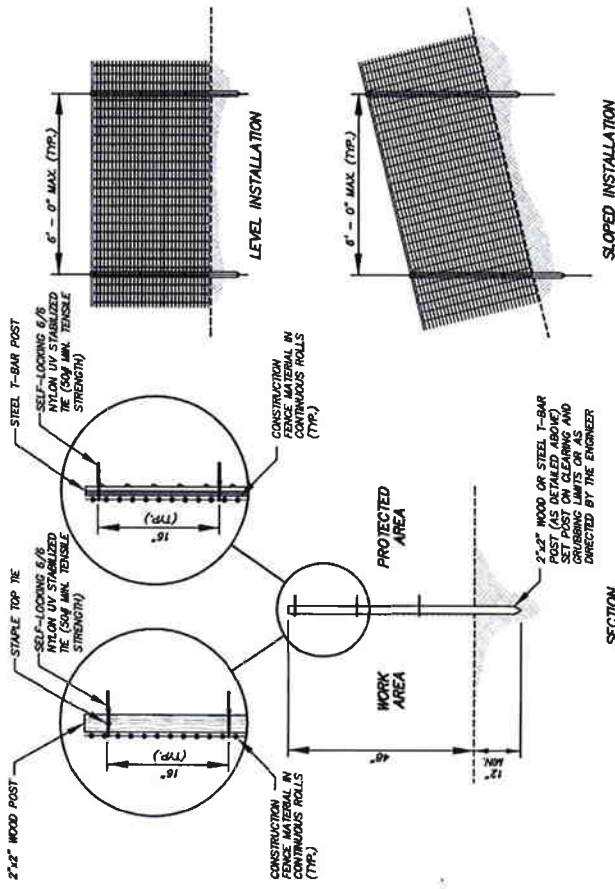
**Pierce County**  
DEPARTMENT OF PUBLIC WORKS AND UTILITIES  
SURFACE WATER MANAGEMENT  
1000 SOUTH 10TH STREET, SUITE 201  
TACOMA, WA 98408-7322

**MOREY CREEK DAM BYPASS CHANNEL**  
MISC. DETAILS  
C.I.P. # D618-006



**SLEEP GENERAL NOTES.**

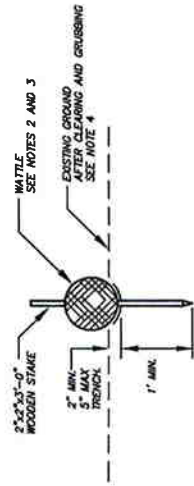
1. ON-SITE TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) MEASURES INCLUDING BUT NOT LIMITED TO: INSTALLATION, MAINTENANCE, CLEANUP, AND DISPOSAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL TESC MEASURES SHALL BE INSPECTED AND APPROVED BY THE ESC LEAD AND IN ACCORDANCE WITH 8-01 OF THE RCW. STANDARD SPECIFICATIONS SHALL APPLY UNLESS OTHERWISE SHOWN ON THIS SHEET AND SHALL BE INSTALLED PER NOTE 2, AS DETAILED, OR AS DIRECTED BY THE ESC LEAD. THE CONTRACTOR SHALL MAINTAIN THE TESC MEASURES THROUGHOUT THE PROJECT AND SHALL BE RESPONSIBLE FOR THE TESC MEASURES AND AS DIRECTED BY THE ENGINEER OR THE ESC LEAD. SEE SPECIAL PROVISION: "EROSION CONTROL AND WATER POLLUTION CONTROL".
2. INSTALL STABILIZED CONSTRUCTION ENTRANCE, CONSTRUCTION FENCE, AND WATTLE PROOR TO ANY CLEARING AND GRUBBING ACTIVITIES. PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).
3. WATTLES SHALL BE INSTALLED PER PLAN (SEE SHEET 6) AND IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(10) AND 8-14.5(5). SECURELY KNOT EACH END OF WATTLES TOGETHER AND ADJACENT WATTLES TIGHTLY, END TO END, WITHOUT OVERLAPPING. PLOT HOLES MAY BE DRIVEN THROUGH THE WATTLES AND INTO THE SOIL. WATTLES SHALL BE INSPECTED REGULARLY, AND IMMEDIATELY AFTER A RAINFALL PRODUCES RUNOFF, TO ENSURE THEY REMAIN THOROUGHLY ENTRENCHED AND IN CONTACT WITH THE SOIL.
4. CLEARING AND GRUBBING SHALL BE COMPLETED TO THE PROJECT AREAS WITHIN THE INSTALLED CONSTRUCTION FENCE, WATTLES, AND/OR FINAL HYDROSEEDING LIMITS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
5. TREES THAT SHALL REMAIN "UNDISTURBED" WILL BE FLAGGED, AND MARKED BY THE ENGINEER WITH (UD). TREES THAT WILL BE REMOVED AS "CLEARING AND GRUBBING" WILL BE FLAGGED, AND MARKED BY THE ENGINEER WITH (CG). TREES THAT WILL BE USED AS ON-SITE "HABITAT FEATURES" WILL BE FLAGGED, AND MARKED BY THE ENGINEER WITH (HF). TREES THAT WILL BE FLAGGED AND MARKED AS "UNDISTURBED" (UD), AS NOT TO DAMAGE THEIR BARK AND ROOTS. SEE SPECIAL PROVISION: "CLEARING AND GRUBBING", "AND HABITAT FEATURES".
6. THE CONTRACTOR IS NOT REQUIRED TO REMOVE THE STABILIZED CONSTRUCTION ENTRANCE UPON COMPLETION OF HAUL ACTIVITIES BUT IS REQUIRED TO APPLY AND COMPACT A 2" LAYER (±10 C/D) OF CS3C OVER THE EXISTING QUARRY SPALLS.



**CONSTRUCTION FENCE DETAIL**

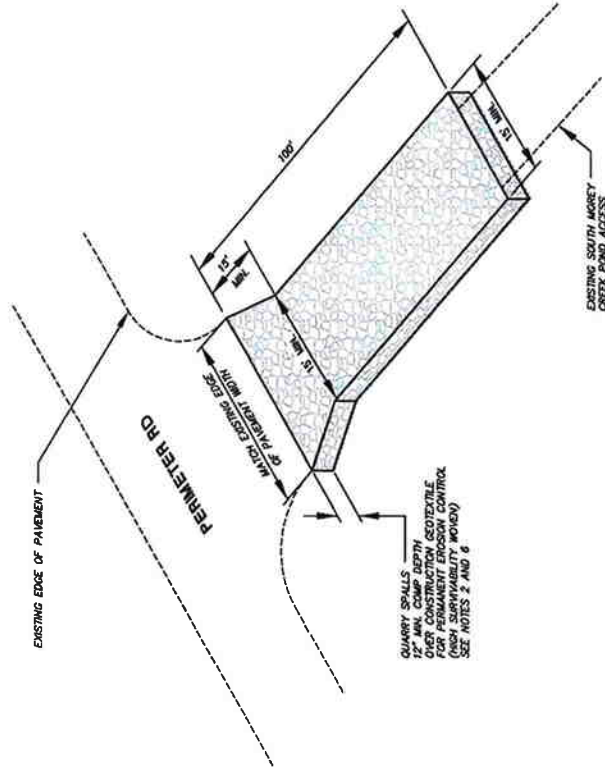
NOT TO SCALE  
SEE SPECIAL PROVISION: "CHAIN LINK FENCE AND WIRE FENCE"

NO.	DATE	REVISION	BY	APPROVED



**WATTLE DETAIL**

NOT TO SCALE



**STABILIZED CONSTRUCTION ENTRANCE DETAIL**

NOT TO SCALE



**Pierce County**  
DEPARTMENT OF PUBLIC WORKS AND UTILITIES  
SPECIALIZED MANAGEMENT  
2702 SOUTH 42ND STREET, SUITE 201  
TACOMA, WA 98409-7322

**MOREY CREEK DAM BYPASS CHANNEL**  
**STORMWATER POLLUTION PREVENTION PLAN**  
**C.I.P. # D618-006**

Revised April 2022, 10:31 AM  
Drawing by: MARY ELLEN BRYAN, DREW BRYAN, MARY ELLEN BRYAN  
Checked by: MARY ELLEN BRYAN, DREW BRYAN, MARY ELLEN BRYAN  
Date Plotted: 4/20/22  
Scale: 1" = 10'