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Maintenance Recommendations Alberta Transportation Bridge Inspection & Maintenance System (Web 201 Maintenance Recommondation mpleted Work Work Type nent Commer 3 Cl. 1 at inlet PLACE ADDITIONAL RIP RAP REMOVE DRIFT ACCUMULATION 25 M Install Struts T.T. STATS IN RI-RG 2017 Concrete Floor Full length 20(7 other Action 2017 Install delineators along both shulders al Condition Rating (Last/Now) Sufficiency Rating (Last/Now) / Est. Repl. Yr 2025 Maint. Regd. (Y/N) Yes · CUL1, CULM, CULE form recommendations are identical Albertan 3 3



Upstream / Downstream End Maintenance

- · Upstream & Downstream ends have the same inspection items
- Head Wall
 - usually a low maintenance item
 - broken, spalled concrete
 - patch
 - scaled concrete
 - repair & seal (when salt applied to roads)

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Adding end treatment to existing culvert.



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Upstream / Downstream End Maintenance (Cont'd)

- · Wingwalls
 - deteriorated concrete
 - chip out and replace
 - separated from barrel
 - re-connect with steel plates
 - fill gap with flexible material
 - pushing inwards
 - strut between

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Damaged floor at outlet transition.

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Upstream / Downstream End Maintenance (Cont'd)



Bevel pushing inward – repaired with horizontal strut



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Upstream / Downstream End Maintenance (cont'd) Scour Protection Erosion / scour add suitable size rock riprap with filter cloth to apron and/or around collar or bevel Scour / Erosion add rock riprap with filter cloth to suit velocities anticipated

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Upstream / Downstream End Maintenance (Cont'd)

- Degradation
 - restore stream bed elevation
 - add material
- —
- Aggradation
 - restore stream bed elevation
- remove material

25















































LEVEL1 INSPECTION	CORE TIMBER CAPS/CORBELS
CONCRETE DECK INSPECTION	REPAIR/REPLACE TIMBER CAPS
CONCRETE GIRDER INSPECTION	REPAIR ABUTMENT SCOUR/EROSION
VERTICAL CLEARANCE MEASUREMENT	
CHI ORIDE TESTING	REMOVE DRIFT ACCUMULATION
COPPER SUI PHATE ELECTRODE TESTING	INSTALL CATHODIC PROTECTION
PAINT INSPECTION	INSTALL CONCRETE/STEEL LINING
STEEL CULVERT BARREL MEASUREMENT	INSTALL STRUTS
SPECIAL STRUCTURE MONITOR	INSTALL CONCRETE COLLAR/CUTOFE
ULTRASONIC TRUSS INSPECTION	REPAIR SEAMS
SCOUR SURVEY INSPECTION	OBTAIN CORROSION ANALYSIS DATA
REPAIR/REPLACE BRIDGERAIL	REPAIR/REPLACE SIGNING
GALVANIZE/PAINT BRIDGERAIL	PATCH/REPAIR ACCESS PLATFORM
RETROFIT BRIDGERAIL	ADJUST/PAINT PEDESTAL BEARING AREA
SEAL CURBS	OTHER ACTION
PATCH DECK	REPAIR/REPLACE TIMBER CORBELS
SEAL DECK	REPAIR/REPLACE TIMBER PILES
OVERLAY DECK	LOAD POST BRIDGE
REPAIR/REPLACE DECK JOINTS	REPLACE MEMBERS
REPLACE STRIP DECK	STRAIGHTEN MEMBERS
REPLACE SUB DECK	REPAIR MEMBERS
RESET/ PAINT BEARINGS	INSTALL BOLTS
REPAINT SUPERSTRUCTURE	REPAIR BEARINGS
STRAIGHTEN/REPLACE MEMBERS	CRACK REPAIRS/TREATMENT
WASHING	PATCH CURBS/PARPETS
FILL BOLT HOLES	REPAIR STRUTS
SHOTOPETE PEPAIPS	REPLACE CULVERT







Properly lapped seam.

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