

	<b>Bridge/Stock Underpass</b>	<b>Pt 15</b>	
	<b>Precast/Foundations</b>	<b>2 Pages</b>	
	<b>Field Notes</b>	<b>Help</b>	
	<b>Inspection Date:</b>  	<p><b>Precast Concrete</b> Reinforcing layout as detailed in Specific Design</p> <p>Any variations require amended drawings/PS1 from the Structural Eng</p> <ul style="list-style-type: none"> <li>• Generally high yield grade</li> <li>• H bar markings/Reid bar</li> <li>• Bar sizing/spacing and laps as per designed</li> <li>• Drossback length/location</li> <li>• Confirm designed cover</li> <li>• Secured to maintain cover during concrete placing</li> </ul> <p>Confirm concrete grade</p> <p><b>Footings/abutments</b> Reinforcing layout as detailed in Specific Design</p> <p>Any variations require amended drawings/PS1 from the Structural Eng</p> <p>Specific bearing qualities of design require testing reporting by Structural Eng</p> <ul style="list-style-type: none"> <li>• Generally high yield grade</li> <li>• H bar markings/Reid bar</li> <li>• Bar sizing/spacing and laps as per designed</li> <li>• Confirm designed cover <ul style="list-style-type: none"> <li>• Anchors for other components sized/placed and embedment correct</li> <li>• Anchor durability</li> </ul> </li> <li>• Secured to maintain cover during concrete placing</li> <li>• Confirm concrete grade</li> </ul>	
<b>Inspection Prompts</b> Review endorsements <b>Precast Concrete</b> Cast outside Invercargill Structural Eng PS4 Cast locally inspect random sample 1-3 Major works Structural Eng supervision/PS4 	<b>Inspection Date:</b> (record casting number)  		
<b>SDC supervision</b> Reinforcing grade Sized/spaced as draw Radius of bends Specified cover Drossbacks/ducts Secured for placing Concrete grade/curing Digital photograph 	<b>Inspection Date:</b> (record casting number)  		
<b>Footings/abutments</b> Underpasses MWH supervise/provide PS4 Major works Structural Eng supervision/PS4 	<b>Inspection Date:</b> (footings/abutments)  		
<b>SDC supervision</b> Footing width/depth Sub-soil type/bearing Structural Eng testing ? Reinforcing grade Sized/spaced as draw Radius of bends Specified cover Secured for placing Anchors/fixings and their durability Concrete grade/curing 	<b>Undertaken by:</b> 		
Check culvert dia where stream diverted Digital photograph 	<b>Alternative Solution:</b>  		
	<b>Basis for approval:</b>  		
	<b>Approved by:</b> 		
	<b>Follow-up next inspection:</b>  		
			<b>p.t.o</b>



Bridge/Stock Underpass (continued)	Help
<b>Final Inspection</b>	Design/construction as detailed in Specific Design
<b>Field Notes</b> (follow-up previous inspection)	
<b>Inspection Date:</b>  	Any variations require amended drawings/PS1 from the Structural Eng  <b>Stock Underpass</b> Stressing ducts generally to corners of box units  Grout spillage should be evident filling point/junctions  Wingwall to unit sometimes grouted or bolted plates Confirm plate/fixing durability <b>Bridge</b> Sizing/durability of abutment main beam fixings critical  Seismic pads generally only concrete/steel const  Confirm decking/topping fixings/durability  <b>Balustrades</b> Where pedestrian access likely in or close to urban areas & 1/2 day walking for DOC structures  <ul style="list-style-type: none"> <li>• Only &gt; than 1.0m fall height</li> <li>• 1.0m min height</li> <li>• Verticals max 100mm gap</li> <li>• No horizontal rails within 150-760mm of floor level</li> <li>• Max 50mm mesh option</li> </ul> Low risk where not frequented by children  Generally includes rural bridges/underpasses away from urban areas and remote DOC structures  <ul style="list-style-type: none"> <li>• Only &gt; than 1.0m fall</li> <li>• 1.0m min height</li> <li>• Max 460mm between horizontal railings</li> <li>• Max 300mm between vertical balusters</li> </ul>
<b>Inspection Prompts</b> Review endorsements <b>Stock Underpass</b> Stress ducts grouted Wingwall connections  <b>Bridge</b> Abutment to structural beam fixings/durability Rubber seismic pads? Structural beam sizes spans and spacings Topping/decking Component durability  <b>Balustrades</b> Fixing to precast unit Framing species/treat Steel durability Size/spans comply Balustrade height Construct to potential access under 6 yrs ?  <b>DOC Structures</b> PS! statement submit with each consent Generally Structural Eng supervision/PS4 Can audit 10% of structures with PS4 DOC charges actual travel/time costs DOC use SNZ 8630 increased fall heights reduced barrier req Remoteness governs barrier/fall heights  <b>Undertaken by:</b> <b>Alternative Solution:</b>  <b>Basis for approval:</b>  <b>Approved by:</b> <b>Follow-up next inspection:</b>	
Fees correct <input type="checkbox"/> Additional inspections ..... Invoice \$ ..... Paid ...../...../.....	Issue CCC <input type="checkbox"/>