Client	TfNSW
Contract No.#	21.0000139295.2145
Contract	New Dubbo Bridge
ITP prepared by	Henry Meyer
ITP approved by	

INSPECTION AND TEST PLAN FOR:

Rocks Gabions & Mattresses (R55)

Work Area:								
Inspection and Test Plan								
ITP 15	(ITC 15)							
Lot No:								

Legend	nd: W = Witness		H = Hold S = Surveillance		ACPI	L = Aberg	eldie	S/C = Subcontractor	
Activity	Description	Requirements	Acceptance Criteria	Frequency	Insp	pection – E	ngineer to Sign	Comments /	
No.#	Description	/ Reference	Acceptance Criteria	Frequency	S/C	ACPL	Client	Date	Attachments / Records
1	Safety Project Safe Review Plan		 All site personnel inducted (includes environment and cultural) Required Safe Work Method Statements completed and signed Subcontractor's safety plan / procedure approved 	Prior to commencing works		W	S		
2	Project Environment Environment Plan		 Installation of soil erosion and sedimentation controls completed in accordance with Soil and Water Specs. Air quality to be visually monitored for dust etc as a direct result of construction activities 	Prior to commencing works		W	S		
4	Gabions	R55 Cl 2.1	 Gabions must be flexible, woven, galvanized wire mesh boxes of dimensions as shown on the Drawings conforming to ASTM A975-97. Where specified on the Drawings, the galvanized wire mesh must be coated with PVC. The galvanizing coating must be a 95% Zinc, 5% Aluminium Mischmetal alloy conforming to the requirements of ASTM A975-97. The physical properties of the steel wire and PVC coating must conform to the requirements of ASTM A975-97. 	During n Installation		S	S		
5	Mattresses	R55 Cl 2.2	 Mattresses must be flexible, woven, galvanized wire mesh boxes of dimensions as shown on the Drawings conforming to ASTM A975-97. Where specified on the Drawings, the galvanized wire mesh must be coated with PVC. The galvanizing coating must be a 95% Zinc, 5% Aluminium 	Installation		S	S		

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Activity	Decemention	Requirements		Acceptance Criteria		Insp	ection – Er	igineer to Sign	& Date	Comments /	
No.#	Description	/ Reference	F	Frequency	S/C ACPL		Client Date		Attachments / Records		
			A975-97. The phy	conforming to the requirements of ASTM ysical properties of the steel wire and PVC orm to the requirements of ASTM A975-							
6	Selvedges	R55 Cl 2.3		abions, mattresses, diaphragms and end elvedged with a continuous wire in ASTM A975-97.	During Installation		S	S			
8	Lacing And Connecting Wire	gab wiri gab necting R55 Cl 2.5 A97 the		gabions, mattresses and mesh panels to perform all the wiring operations to be carried out in construction of the gabions or mattresses. Materials must conform to ASTM A975-97. The minimum diameter of the wire (or wire core in the case of PVC coated wires) must be 2.2 mm.			S	S			
9	Rockfill	R55 Cl 2.6	to the requirement	ts of ASTM A975-97.	During Installation		S	S			
10	Aggregate Wet/Dry Strength	R55 Cl 2.6.1	100 kN and a max when tested in acc The rock may be o	rces must have a wet strength of at least kimum wet/dry strength variation of 35% cordance with Test Method TfNSW T215. crushed by the testing authority so as to that is suitable for testing by Test Method	During Installation		S	S		If practical, recycle any unwanted guide posts. - Test results	
11	Size	R55 Cl 2.6.2	 For mattresses, the the maximum rock of the mattress or HOLD POINT: Us 	ne minimum rock size must be 75 mm, and k size must be two thirds of the thickness 250 mm, whichever is the lesser.	During installation		Н	Н		HOLD POINT	

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Activity	Dagarintian	Requirements	Acceptance Oritoria		Inspection – Engineer to Sign & Date				Comments /
No.#	Description	/ Reference	Acceptance Criteria	Frequency	S/C	ACPL	CPL Client Date		Attachments / Records
			Assemble and install all gabions and mattresses in accordance with the requirements of this specification and the manufacturer's recommendations.						
12	Installation - General	R55 CI 3	Carry out the excavation shown on the Drawings prior to the installation of the gabions, mattresses and/or Terramesh panels.	During installation		S	S		
			Use the excavated material for the construction of embankments, or dispose of it to spoil in accordance with Specification TfNSW R44.						
			HOLD POINT: Filling of gabions.						
13	Stretching	R55 CI 4.3	Provide verification that the gabion units have been supplied and assembled in accordance with specification requirements.	During Installation		Н	н		HOLD POINT
		Carry out filling of the gabion boxes only while the gabion boxes are under tension. Place the rocks at the front face, and all other faces which will be exposed in the completed structure, by hand packing so as to produce a neat face free from excessive bulges, depressions and voids. Provide internal bracing wires prevent distortion of the gabion units during filling and in the completed structure. Mechanical filling equipment may be used provided that adequate precautions are taken to protect any PVC coating from abrasion during filling operations. Release the tension on the gabion boxes only when fully laced and sufficiently full to prevent the mesh from slackening.							
			will be exposed in the completed structure, by hand packing so as to produce a neat face free from excessive bulges,						
14	Filling					S	S		
			laced and sufficiently full to prevent the mesh from						
15	Final Lacing	Closing and lacing down of lids must proceed as soon as practicable after the filling operations particularly where there is a likelihood of storm or flood during construction. Closing and lacing down of lids must proceed as soon as practicable after the filling operations particularly where there is a likelihood of storm or flood during construction. S Installation		s s					
			Stretch the lids tightly over the filling with suitably designed closing tools and lace down securely through each mesh	ocalidion					

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Activity	Description Requirements		Δο	ceptance Criteria	Frequency	Insp	ection – E	ngineer to Sign	& Date	Comments /	
No.#	Description	/ Reference		•	rrequericy	S/C	ACPL	Client	Date	Attachments / Records	
			along all edges, end work on the next lay	s and diaphragms before commencing er of gabion.							
16	Installation Of Mattresses	R55 CI 5.1	 Prior to assembly, open the wire mesh out flat on the ground and stretch it to remove all kinks and bends. Assemble the mattresses individually, by raising the sides, ends and diaphragms, ensuring that all creases are in the correct position and that the tops of all four sides and the diaphragms are even. Maintain tightness of the mesh and wiring at all times. 		During Installation		S	S			
		Only assembled mattress or groups of mattresses may be positioned in the structure, with each mattress being securely laced to the surrounding ones along the perimeter. When the mattress is laid on a slope steeper than 1(V) in 1.5(H), secure the upper edge by galvanized star pickets driven at 1 m centres a minimum of 900 mm into the ground, or as shown on the Drawings. HOLD POINT: Filling of mattresses Provide verification that the mattress units have been supplied and assembled in accordance with specification requirements. The Principal will inspect the installed mattresses prior to authorising the release of the Hold Point.	positioned in the stru securely laced to the	acture, with each mattress being surrounding ones along the perimeter.							
17	Erection		н н		HOLD POINT						
			HOLD POINT: Filling	g of mattresses							
			supplied and asseml requirements. The P	bled in accordance with specification rincipal will inspect the installed							
				uipment may be used provided that is are taken to protect any PVC coating ifilling operations.							
18	Filling	R55 CI 5.3		g materials by hand to ensure that all nents are fully filled and to produce a ırface.	During Installation		s s				
			Mattress units must allow for subsequent	be overfilled by 25 mm to 50 mm to t settlement.							
19	Final Lacing	R55 CI 5.4		own of lids must proceed as soon as filling operations have been completed.	During Installation		S	S			
			Stretch the lids tightl	y over the filling with suitably designed							

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Activity	tivity Require		Requiren	nents		Assentance Criteria				Insp	ection – E	ngineer to Si		Comments /	
No.#	Description	Description / Reference		ence	Acceptance Criteria			Frequency	S/C	ACPL	Client	Date	Attac	hments / Records	
					closing tools and lace down securely along all edges, ends and diaphragm lacing wires must be turned into the r of all lacing operations.		ms. The ends of all								
20	Geotextile For Gabion And Mattresses	pions R55 Cl 6			Before laying out gabions or mattresses, place the geotextile between the wire cage and the material being protected or retained. The geotextile must be a non-woven type meeting the requirements of Geotextile Strength Class C and Filtration Class 2 in accordance with Specification TfNSW R63.		During Installation		S	S					
REVIEW	BY PROJ	ECT	ENGINE	ER											
Any non-	conforman	ces?		☐ YES	3 [□ NO Nos:					Closed Out				□NO
Other QA	A details – I	NCRs	3,												
CARs, Identified Records etc															
All work has been satisfactorily completed.)						
Name						Signature					Date				

List of Identified Records

- 2.6.2 Details of the properties and source of the rock fill
- 4.3 Conformity records for the supply and assembly of gabion units
- 5.2 Conformity records for the supply and assembly of mattress units