

## Inspection and test plan – Driveway entrance pipe crossing.

<b>Project no.</b>	CC0375	<b>Project name</b>	Hunter Power Project				
<b>HPP ITP no.</b>	CC0375-ITP-	<b>Revision no.</b>	1	<b>Revision date</b>	24/06/2024	<b>Plant and equipment used</b>	
<b>UGL ITP no.</b>	3200-0663-HPP-QA-ITP-					<b>SHL ITP no.</b>	HPP-UGL-QUA-GN-GEN-ITP-
<b>HPP Lot No.</b>	ITP-						
<b>Location (chainages, detailed description or marked up plan)</b>							

Attach Dockets, Certificates and QA Documents to ITP

Contact Details	Summary of Requirements	Principle Codes / Standards	Records
<b>Project Engineer:</b> <b>Quality Representative:</b>	<b>Process Qualifications</b>		<b>(MDR Insert as marked <input type="checkbox"/>)</b>
<b>Subcontractors</b>	<b>Traceability:</b>	<b>Client Specifications</b>	<ul style="list-style-type: none"> <li>- Inspect Release Certs. <input type="checkbox"/></li> <li>- Deviations/Concessions <input type="checkbox"/></li> <li>- Material Certificates <input type="checkbox"/></li> <li>- Conformance Certificate <input type="checkbox"/></li> <li>- Welding Records <input type="checkbox"/></li> <li>- Welder Qual. Register <input type="checkbox"/></li> <li>- NDT Reports <input type="checkbox"/></li> <li>- Report on Repairs <input type="checkbox"/></li> <li>- Heat Treatment Records <input type="checkbox"/></li> <li>- Dimensional Records <input type="checkbox"/></li> <li>- Non-Conformance Rpts <input type="checkbox"/></li> <li>- Pressure Test Records <input type="checkbox"/></li> <li>- Drawings &amp; Data Sheets <input type="checkbox"/></li> <li>- Misc Verification Records <input type="checkbox"/></li> <li>- Electrical Test Sheets <input type="checkbox"/></li> </ul>
Finnbar constructions ACW	Material: <input type="checkbox"/> Alloy Verification <input type="checkbox"/> Heat Treatment: <input type="checkbox"/> Pressure Testing <input type="checkbox"/> Consumable: <input type="checkbox"/> NDT: <input type="checkbox"/> Welder ID: <input type="checkbox"/> WPS: <input type="checkbox"/> Electrical: <input type="checkbox"/> Instruments <input type="checkbox"/>	HPP-AEC-CIV-GN-GEN-SPT-0161 QUALITY (CONSTRUCTION)  HPP-AEC-CIV-DD-SWS-SPT-1121 EARTHWORKS  HPP-AEC-CIV-GN-GEN-SPT-0319 MINOR CONCRETE WORKS  HPP-AEC-CIV-ST-GEN-SPT-0002 CONCRETE SUPPLY, CONSTRUCTION AND GROUTING  HPP-MHI-QUA-GN-GEN-ITP-0002 - CG-64290 – Inspection and Test Plan at Site for MHI Scope Section  HPP-MHI-CIV-ST-GPS-PRO-0001 – CG- 64293 - Installation Procedure for Anchor Bolts and Template for GT  HPP-MHI-CIV-ST-GPS-PRO-0002 – CG- 64292 – Check Sheet for GT & GTG Anchor Bolt Setting  MHI GT Erection Procedure (Site Assembly)	
<b>Surveillance / Inspection Key</b>	<b>Heat Treatment: Dimensional</b>  <b>Control:</b>  <b>Testing (NDT): Acceptance</b>  <b>Specification:</b>  <b>Pressure Testing:</b>  <b>Elect. / Instrumentation:</b>	<b>Engineering Procedures / WI</b>	
<b>HOLD POINT (H):</b> Nominated point beyond which work shall not proceed without verified acceptance by nominee.  <b>WITNESS POINT (W):</b> Points at which the nominee shall be notified and invited to witness an activity, but further work may proceed without the presence of the nominee.  <b>REVIEW (R): Verify</b> by examination of documentary evidence that inspection / tests have been satisfactorily conducted.  <b>SURVEILLANCE (S): Continuing</b> evaluation of the status of methods, analysis of records and monitoring of activities on a random basis to ensure quality requirements will be met.  <b>VISUAL (V): 100%</b> Visual Inspection of work / item to ensure compliance with code / specification.  <b>DIMENSIONAL (D): Measurement</b> of critical dimensions to ensure work / item is within tolerance	<b>Notes:</b>	HPP-MHI-CIV-ST-GPS-PRO-0001  HPP-MHI-CIV-ST-GPS-PRO-0002	
Prepared by: Yash Bhavsar	Date: 24/06/2024	Approved By: Graham Nuss	Date : 24/06/2024

					Verification of acceptance by						Remarks / record (eg. test frequency, reports, certificates, checklist etc)
					NA		HPP Con.		HPP QA		
Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Key	Sign date	Key	Sign date	Key	Sign date	
1.0 Preliminaries											
1.1	Documentation	Issued drawings / Site copy drawings	Check that you have the latest site and engineering drawings BEFORE starting each task/set of tasks.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		
1.2	Lot Traceability	Spec. 0161 Quality [CI 7.3]	Prepare a lot map for traceability of the work area.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		<input type="checkbox"/> Lot Map
1.3	Set out	Drawings	Setout structure to the location and levels on the drawings. This shall be presented for inspection by the superintendent.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		
2.0 Excavation & Foundation											
2.1	Excavation	Spec. 1112 Earthworks [CI 4.6]	Excavate to the depth nominated on the drawings and remove any loose material at the base. Ensure excavation is carried out to a width which will not impede external formwork.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		
2.2	Unsuitable Material	Spec. 1112 Earthworks [CI 4.6]	Any Unsuitable Material to be removed to the depth as directed by the Superintendent. Replace unsuitable with 300mm thick ballast wrapped with Geofabric material. <b>HOLD POINT</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	H	NA	H		H		
2.3	Foundation Inspection	Spec. 1112 Earthworks [4.7]	Foundation to be inspected by the Superintendent prior to placing blinding or commencing work.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		

					Verification of acceptance by						Remarks / record (eg. test frequency, reports, certificates, checklist etc)
					NA		HPP Con.		HPP QA		
Item no.	Activity	Ref docs	Acceptance criteria	Acceptance	Key	Sign date	Key	Sign date	Key	Sign date	
3.0 Formwork & Concrete Placement											
3.1	Formwork	Spec. 0319 Concrete supply, construction, and grouting [CI 4.0] Drawings	Formwork installed as per drawings and adequately supported.  Completed formwork to be inspected by the Superintendent prior to concrete placement. Install 2*dia. 300 stormpro pipe to levels, 50mm below drain invert.  Formwork engineers' inspection certificate complete and received	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		<input type="checkbox"/> Pre-pour inspection
3.2	Concrete Supply Temperature	Spec. 0002 Concrete supply, construction, and grouting [CI 8.1.2]	Temperature of concrete at the time of placement must be minimum 10°C and maximum 30°C.  Ambient air temperature at the time of placement must be between 5oC and 32oC.  If ambient temperature is between 32oC and 38oC, seek approval from superintendent to proceed by taking special precautions noted in the specification.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		<input type="checkbox"/> Material docket <input type="checkbox"/> Concrete pour records
3.3	Concrete Placement	Spec. 0002 Concrete supply, construction, and grouting [CI 8.1.4]	Ensure elapsed time between batching and discharge of the mix does not exceed 1.5 hours.  Concrete placed in layers ≤ 300mm thick and adequately vibrated avoiding over-vibration.  Concrete thoroughly compacted – one internal vibrator per 10m³ concrete placed per hour  Concrete strength of Cast-in-situ units shall be min. 20MPa or as otherwise stated on drawings.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		<input type="checkbox"/> Material docket <input type="checkbox"/> Concrete pour records

3.4	Curing	Spec. 0319 Minor Concrete Works [CI 4.13]	From completion of finishing cure continuously with an approved method such as either curing compound, wet curing or form retention until 15MPa is achieved unless directed otherwise by the superintendent.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	S	NA	S		S		
<b>4.0 Conformance check</b>											
4.1	Survey Report	Spec. 0161 Quality [CI 3.13]  AS3610	An as-built survey of the structure has been completed to ensure all structures are within the following construction tolerances: <ul style="list-style-type: none"> <li>Absolute position in plan shall be within 10 mm.</li> <li>Floor to floor plumb shall not exceed 0.002 times the dimension between the floors or 10 mm whichever is the greater.</li> <li>Deviation from the specified dimension shall not exceed 0.001 times the specified dimension or 5mm, whichever is the greater.</li> </ul>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	R	NA	R		R		<input type="checkbox"/> Survey report
4.2	Acceptance and closure of non-conforming items	Spec. 0161 Quality [CI 3.8]	NCRs to be opened for non-conforming items and closed prior to closing construction lot. <b>HOLD POINT</b>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	H	NA	H		H		

## Acceptance of works:

UGL representative  
name

\_\_\_\_\_

UGL representative signature

\_\_\_\_\_

Date

\_\_\_\_\_

SHL representative  
name

\_\_\_\_\_

SHL representative signature

\_\_\_\_\_

Date

\_\_\_\_\_

## Inspection Checklist Report

Project no. CC0375 Project name Hunter Power Project Date \_\_\_\_\_  
 Symal ITP no. CC0375-ITP-15  
 UGL ITP no. 3200-0663-HPP-QA-ITP-015 SHL ITP no. HPP-UGL-QUA-GN-GEN-ITP-0015  
 Symal Lot no. \_\_\_\_\_ Symal Sub Lot no. \_\_\_\_\_  
 Location (chainages, detailed description or marked up plan) \_\_\_\_\_

ITP Step No.	Activity to be verified	Items conforms?			NCR / Test Report No.	Verify of acceptance by						Remarks / records
		Yes	No	NA		Symal		UGL		SHL		
						Key	Sign Date	Key	Sign Date	Key	Sign Date	
<b>1.0 Preliminaries</b>												
1.1	Documentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		
1.2	Lot Traceability	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		<input type="checkbox"/> Lot Map
1.3	Setout	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		
<b>2.0 Excavation &amp; Foundation</b>												
2.1	Excavation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		
2.2	Unsuitable Material <b>HOLD POINT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		H	NA	H		H		
2.3	Foundation Inspection	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		
2.4	Formwork	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		
<b>3.0 Formwork &amp; Concrete Placement</b>												
3.1	Formwork	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		<input type="checkbox"/> Pre-pour Inspection
3.2	Concrete Supply Temperature	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		<input type="checkbox"/> Material docket Concrete pour record
3.3	Concrete Placement	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		<input type="checkbox"/> Material docket <input type="checkbox"/> Concrete pour record
3.4	Curing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		S	NA	S		S		
<b>4.0 Conformance check</b>												
4.1	Survey report	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		R	NA	R		R		<input type="checkbox"/> Survey Reports
4.2	Acceptance and closure of non-conforming items <b>HOLD POINT</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		H	NA	H		H		

I certify that this Lot conforms to the requirements of the design and specifications; that all associated NCRs have been closed out; and all survey, conformance testing and inspections have been undertaken in accordance with the specified requirements.

<b>Symal Representative</b>	<b>Signature</b>	<b>Date</b>
<b>UGL Representative</b>	<b>Signature</b>	<b>Date</b>
<b>SHL Representative</b>	<b>Signature</b>	<b>Date</b>
<b>Comments:</b>		