

# INSPECTION AND TEST PLAN CONSTRUCTION OF NOISE WALL

Prepared for

<b>Client:</b>		<b>Project No:</b>	<b>GCC#XXX</b>
<b>Site Address:</b>		<b>Date Prepared:</b>	

ITP ITEM No.	INSPECTION / CONSTRUCTION ACTIVITY	INSPECTION / TEST / METHOD / STANDARD / SPECIFICATION	STAGE OR FREQUENCY OF SAMPLING	ACCEPTANCE CRITERIA	RECORD OF CONFORMITY	TYPE	RESPONSIBILITY	CHECKED / VERIFIED BY (INITIAL & DATE)		
								GC CIVIL	TFNSW	OTHER
PRELIMINARIES & PRE-START										
1.	Submit two copies of Executed Contract	Desktop review As per Conditions of Contract, & Tender	Per contract	Return of 2 copies of Executed Contract	Document - Contract	IP	GC Project Manager			
2.	Provision of Security	Desktop review 1x5% of Contract as per Conditions of Contract	Per contract	Cash, bank cheque or unconditional undertaking (bank guarantee)	Document – Bank G'tee	IP	GC Project Manager			
3.	Proof of Worker's Compensation Policy	Desktop review As per Conditions of Contract	Prior to commencing works on site	Copy of Certificate of Currency from Workers Compensation Provider	Document – Cert. of Currency	IP	GC Project Manager			
4.	Proof of Motor Vehicle & Mobile, Plant Insurance Policy	Desktop review As per Conditions of Contract	Prior to commencing works on site	Copy of Certificate of Currency from Insurer	Document – Cert. of Currency	IP	GC Project Manager			
5.	Quality Management – Inspection & Test Plan	Desktop review TFNSW Q6 CI 4.2.6 TFNSW Q4 CI 1.1	Staged Submission 14 days prior to commencement of staged works	Submission and approval of controlled copy of Inspection & Test Plan	Document – ITP	IP	GC Project Manager			
6.	WHS Documentation - SWMS	Desktop review TFNSW G22 CI 3.8.3	10 days prior to commencement of work at the Site	Submit WHS Plan and documentation	Document – WHS Plan and SWMS	HP	GC Project Manager			
7.	HV CoR Documentation	Desktop review TFNSW G22 CI 4.3.2	10 days prior to commencement of work at the Site	Submit HV CoR Plan and documentation	Document – HV CoR Plan and SWMS	HP	GC Project Manager			
8.	Environmental Documentation	Desktop review TFNSW G36 CI 3.1	10 days prior to commencement of work at the Site	Submit Environmental Plan and documentation	Document – Environmental Plan	HP	GC Project Manager			
9.	Traffic Control Plan	Desktop review TFNSW G10 CI 2.4.1	3 days prior to commencement of work at the Site	Submit TCP, and any ROL, SZA obtained	Document – TCP, ROL, SZA	HP	GC Project Manager			
MATERIALS PROCUREMENT										
10.	Production of Concrete	Desktop review TFNSW B80 CI 3.9 TFNSW R53 CI 1.4 TFNSW approval required	Before initial production of each strength grade of concrete for the project	Submission of Production Assessment Reports and mix design AS 1379 The specification and manufacture of concrete AS 1012 Methods of testing concrete	Document – Concrete mix design	HP	GC Project Manager  TFNSW Project Rep			

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11.	Precast Panel manufacture	Shop Drawings TFNSW approval required	Prior to commencing panel manufacture	Provide shop drawings for review	Workshop Drawings	IP	GC Project Manager  TFNSW Project Rep			
12.	Procurement of Panels	Visual TFNSW R271 CI 7.6.2 TFNSW approval required	Prior to procurement of panels	Approval of sample panel demonstrating reparability	Sample Panel	HP	GC Project Manager  TFNSW Project Rep			
13.	Manufacture of Panels	Visual TFNSW R271 CI 7.6.3 TFNSW approval required	Prior to manufacture of panels	Approval of specimen panel that is representative of noise wall panels	Specimen Panel	HP	GC Project Manager  TFNSW Project Rep			
14.	Casting of Panels	TFNSW B80 CI 7.5.1	Commencement of production of precast members for the Works.	At least two working days prior, submit to the Principal checklists for verifying conformity of the nominated concrete mix, formwork, reinforcement, embedments and other relevant details.	Document - Checklists	HP	GC Project Manager  TFNSW Project Rep			
15.	Supply of Bolts, Nuts & Washer Components	Visual Structural Drawings TFNSW B240 CI 2 TFNSW approval required	Each delivery	Submit information to evidence conformance with B240 CI2 CI6	Document – Test Certificates	HP	GC Project Manager  TFNSW Project Rep			
16.	Steelwork Fabrication	Shop Drawings TFNSW approval required	Prior to commencing fabrication	Provide shop drawings for review	Workshop Drawings	IP	GC Project Manager  TFNSW Project Rep			
17.	Certification of materials	TFNSW R271 CI 6.5 TFNSW approval required	5 days before delivery of materials	At least 5 working days before the supply of a noise wall material, submit to the TFNSW Representative (a) Certification that the material supplied conforms to this	Document – Material Certificates	HP	GC Project Manager  TFNSW Project Rep			

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				Specification. (b) Test reports and a copy of the verification checklist on the suitability of the noise wall material (only applies if we design the wall)						

## SITE ESTABLISHMENT & START-UP

18.	Service & Utilities Search	TFNSW R271 CI 8.2 Site inspection DBYD services plans	Each Wall, prior to commencing any groundwork's, excavation or drilling of test pit / holes  All personnel involved in excavation works must be signed onto SWMS prior to commencing groundworks.  DBYD information is to be renewed every 6 months	As per TFNSW R271 CI 8.2: Dial Before You Dig search on underground services drawings Locate all underground and overhead utilities or services that are present near the proposed noise wall.	DBYD, Verification Checklist	IP	GC Project Manager			
19.	Set-up of Site Compound	Desktop review	Prior to On-site establishment of Contractor's compound.	Submit documented location, size and relevant approvals for Contractor's compound.	Document – layout plan	IP	GC Project Manager			
20.	Induction Training	Desktop review	Commencement of initial construction work	Verification that the site personnel have been inducted	Document – induction records	IP	GC Project Manager			
21.	Dilapidation Records	Photographic record TFNSW R271 CI 8.3	Prior to Commencement of construction activities.	Take photographs prior to commencement of construction activities to record the conditions of all existing structures, areas, adjoining properties, etc.  Liaise with the owners before commencing construction of noise walls	Document – Dilapidation Records R271 CI 8.3	IP	GC Project Manager			

## EXCAVATION - PILING

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22.	Set-out Survey	Drawings, survey, field set-out TFNSW R271 CI 8.1 TFNSW G71 TFNSW approval required	Each Lot, prior to commencement of pier drilling/excavation	Location, level and offset reference points Use adequate recovery pegs and survey markers to accurately set up location and alignment for each wall and pile. Centre of pile positions to be pegged at least one day prior to drilling rig being set up. Datum levels for top / bottom of pile to be provided. At least two (2) working days' notice of the date the set-out will be completed. TFNSW Representative will examine the set-out for compliance with the design drawings and advise within one (1) working day of the inspection whether the Hold Point is released.	Survey Records, Verification Checklist	HP	GC Project Manager  Surveyor			
23.	Prior to excavation	Desktop review TFNSW R271 CI 8.5.4 TFNSW approval required	5 working days prior to commencing any Construction	Report from the Geotechnical Engineer verifying that the site and foundation meet the design requirements, Drawings detailing all underground and overhead utilities or services in the area	DBYD, Document – Geotech certificate	HP	GC Project Manager  TFNSW Project Rep			
24.	Prior to excavation	Site inspection DBYD services plans TFNSW R271 CI 8.5.4	Each Wall, prior to commencing any groundwork's, excavation or drilling of piles  DBYD information is to be renewed every 6 months	Dial Before You Dig search on underground services with drawings showing underground & overhead utilities in vicinity of noise wall	DBYD,	IP	GC Project Manager			
25.	Excavation/Pile Drilling	Structural Drawings TFNSW B59 CI 4.5.3	Per lot / pile	Notify TFNSW that pile excavation is complete & pile hole/s inspection required prior to reinforcement placement. Provide construction documentation verifying that the plan position, size and alignment is within tolerance Notification is done after the cleaning the pile hole/s	Verification Checklist	HP	GC Project Manager  TFNSW Project Rep			

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				Dimensions and depth as per drawings, base clean All loose material removed from the pile hole.						
<b>FOOTING CONSTRUCTION</b>										
26.	Concrete Placement methodology statement	TFNSW B80 CI 7.5.2	Prior to first Concrete pour & placement on this project	At least two working days prior to first pour, submit to TFNSW a concrete placement Method Statement detailing: <ul style="list-style-type: none"> <li>Delivery rate</li> <li>Placement method and rate</li> <li>Equipment</li> </ul>	Hold Point notification	HP	GC Project Manager TFNSW Project Rep			
27.	Concrete Placement	TFNSW B80 CI 7.2.3 TfNSW Bridgeworks Concreting Grey Card required	Prior to first Concrete pour & placement on this project	At least two weeks prior to the first concrete pour, submit to the Principal the names of the personnel who will be involved in bridgeworks concreting operations; which of these persons hold a TfNSW Bridgeworks Concreting Grey Card; and corresponding evidence of this.  At least four working hours prior to pouring concrete, submit to the Principal a statement stating that at least half of the personnel who will be involved in bridgeworks concreting operations hold a TfNSW Bridgeworks Concreting Grey Card.	Hold Point notification	HP	GC Project Manager TFNSW Project Rep			
28.	Pre-Pour planning activities	Weather forecast	Each concrete pour	Ensure the following are in place: Weather forecast considered NATA lab tester arranged Concrete pump arranged (where required) Concrete type & volume established & coordinated with the supplier	Verification Checklist	IP	GC Project Manager			
29.	Pre-Pour Check	Visual Structural Drawings	Every lot before placement of concrete to pier	Level, alignment, clearance and member designation as per Drawings Do not place concrete during rain	Verification Checklist	IP	GC Project Manager			

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								GC CIVIL	TINSW	OTHER
				Check delivery dockets to identify correct mix is being used, time quantity & slump recorded.						
30.	Inspect the progress of concrete pour; placement of Concrete to footing	Inspect delivery and compaction TFNSW B80 Cl 4.4 TFNSW B80 4.5 TFNSW B80 4.6 TFNSW B80 Cl 7 TFNSW B59 Cl 6	Every delivery	Check addition of water to a batch Temperature at point of delivery to be 5C min 35C max. Placement of concrete – not in water, one continuous operation Maintain placement records	Verification Checklist	IP	GC Project Manager			
31.	Test Concrete for Slump & Strength	TFNSW B80 Cl 4.4 Cl 4.5 TFNSW B80 Cl 8.2 Annex B80/L AS 1379 AS 1012.3.1 AS 1012.9	Slump: Each batch Comp: 1pair/25 m <sup>3</sup>	Check frequency of field testing & sampling correct. Check and record the slump of the concrete within 45 minutes of batch time Slump within ±20mm for 100mm slump (or ±40mm if using a tremie mix with nominated slump ≥ 220mm). Compressive Strength @ 28 days one pair of cylinders per 25m <sup>3</sup> or part thereof	Document - Tester Field Sheet	TP	GC Project Manager			
32.	Obtain and check test results	TFNSW B80 Cl 4.4 TFNSW B80 Cl 8.2 Annex B80/L	Per lot	NATA test certificates received, reviewed and conforming to requirements	Document – Test Report	IP	GC Project Manager			

## STEELWORK POST ERECTION

33.	Delivery of Steelwork	Visual Structural Drawings	Each delivery	Submit the relevant documents from the Fabricator's Data Report for any fabricated steelwork and procedures required for its transport, 10 working days prior to transport Check for qty Check for length B220 - Protective Treatment of Steelwork - all steelwork to be hot dip galvanised	Verification Checklist	IP	GC Project Manager TFNSW Project Rep			
34.	Installation of Steel Posts	Visual Structural Drawings	Every post	Check Post member, length, R.L Level, alignment, vertically, spacing,	Verification Checklist	IP	GC Project Manager			

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								GC CIVIL	TINSW	OTHER
				clearance and member designation as per Drawings.						
<b>PRECAST / ACRYLIC PANEL INSTALLATION</b>										
35.	Install Steel Fixing/Fitting Components	Visual Structural Drawings	Each lot	As per Drawings, bolt in all holes, +0, -20 from top of post  B220 - Protective Treatment of Steelwork - all steelwork to be hot dip galvanised	Verification Checklist	IP	GC Project Manager			
36.	Installation of Noise Wall Panels	Visual Structural Drawings	Every panel	check for level and correct R.L.  Check panels close butted together and sufficient panel encapsulation in flange of UB post (minimum 40mm panel bearing on post)	Verification Checklist	IP	GC Project Manager			
37.	Tolerances of erection	TFNSW R271 Cl 8.6.2	Each lot before painting	<ul style="list-style-type: none"> <li>Any clearances required from the face of the noise wall must not be infringed upon at any point;</li> <li>No point on the face of the noise wall must deviate from the design position by more than 50 mm;</li> <li>The inclination of the face of the completed wall must not deviate from the specified inclination by more than 5mm/m height towards the back of the noise wall and nil towards the front;</li> <li>The flatness of the wall must be such that the max. deviation from a 4.5 m straight edge must not exceed 20 mm.</li> <li>The level of any point on the wall must not deviate from the specified level by more than 100 mm. Where no other tolerance is given, a value (dimension, level,</li> </ul>	Verification Checklist	IP	GC Project Manager			



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				position) that is within 6 mm of the required value will be accepted as conforming.						
38.	Repair of damaged Noise Wall Panels (before installation)	Desktop review TFNSW R271 Cl 8.7 TFNSW approval required	Prior to undertaking repairs	Do not install damaged panels. Submit details of the damage and the proposed method of repair, and gain approval of repair methodology  The TFNSW Representative will consider the submitted details and advise within three working days of the submission as to whether the Hold Point is released.	Verification Checklist	HP	GC Project Manager  TFNSW Project Rep			
39.	Installation of repaired Noise Wall Panels	Visual Inspection TFNSW R271 Cl 8.7 TFNSW approval required	Each repaired panel prior to installing	The TFNSW Representative will inspect the repaired panel/s and advise within two working days of the inspection as to whether the Hold Point is released.	Verification Checklist	HP	GC Project Manager  TFNSW Project Rep			
40.	Repair of cracked Noise Wall Panels (after installation)	Desktop review TFNSW R271 Cl 8.7 TFNSW approval required	Prior to undertaking repairs	Submit details of the cracks and the proposed method of repair, and gain approval of repair methodology  The TFNSW Representative will consider the submitted details and advise within three working days of the submission as to whether the Hold Point is released.	Verification Checklist	HP	GC Project Manager  TFNSW Project Rep			
41.	After Installation of Noise Wall Panels	Visual Structural Drawings	Each lot before painting	No visible air gap between panels, cleats firmly clamped against panels and posts, bolts snug tight + 1/3 turn	Verification Checklist	IP	GC Project Manager			
<b>PAINTING OF PRECAST PANELS &amp; POSTS</b>										
42.	Painting Preparation	Urban & Landscape Drawings and Visual Inspection	Each lot before Painting	Check panels clean, colours and areas	Verification Checklist	IP	GC Project Manager			



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43.	Paint Sample	TFNSW R271 CI 7.3.2 Selected Colour: Colorbond Woodland Grey	Once	Prepare a site reference sample to establish colour, texture and workmanship prior to commencing	Sample	IP	GC Project Manager			
44.	Painting of Precast Panels and Posts	Drawings TFNSW R271 CI 7.3.2 Visual Inspections	Each lot	<ul style="list-style-type: none"> <li>Apply acrylic primer coat of Wattyl Granoprime or equivalent, to both faces</li> <li>Apply water based acrylic coloured matt finish coating of Wattyl Solaguard or equivalent, to both faces. Colour: Colorbond Woodland Grey</li> <li>Conforms to TFNSW Urban Design &amp; Landscape Drawings for appearance and Manufacturers Specification for coverage</li> </ul>	Verification Checklist	IP	GC Project Manager			
45.	Anti-graffiti coating of Precast Panels and Posts	Drawings TFNSW R271 CI 7.3.2 & R271 CI 6.3.12 Visual Inspections	Each lot	<ul style="list-style-type: none"> <li>Apply anti-graffiti coatings to road face of precast panels &amp; posts</li> <li>Supply and application of anti- graffiti (A&amp;I coatings Envirothane E8075 or equivalent) coating system, in accordance with the coating manufacturer's specification. Colour: Satin Clear</li> <li>Conforms to Manufacturers Specification for coverage</li> </ul>	Verification Checklist	IP	GC Project Manager			
<b>DISESTABLISHMENT &amp; PROJECT CLOSE-OUT</b>										
46.	Disestablishment	Visual	Prior to disestablishment of plant from site	<ul style="list-style-type: none"> <li>All rubbish &amp; excess materials removed off site</li> <li>Areas graded with appropriate falls for natural drainage without undulation</li> <li>Landscaping – by TfNSW</li> </ul>	Verification Checklist	IP	GC Project Manager			
47.	Certification of Construction of completed Noise Wall	Structural Design Report, Structural Drawings and TFNSW R271 CI 8.10	Completion of each Wall	Submission of Certificate of Construction verifying that the materials used, and the construction conform to TFNSW R271 Specification.	Document – Certificate of Construction	HP	GC Project Manager  TFNSW Project Rep			

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48.	Practical Completion	Visual Inspection TFNSW inspection required	Completion of Works	Conformance to Drawings and Contract Documents including close out of any non-conformance  Conduct a joint inspection, to be undertaken with TFNSW to confirm asset completion and handover  Any defects raised must be actioned prior to Final Completion item	Document – Certificate of PC	IP	GC Project Manager  TFNSW Project Rep			
49.	Work-As-Executed Survey	Survey Measurement	Each Noise Wall	Survey of noise wall location & level	Work-as- executed survey file	IP	GC Project Manager  Surveyor			
50.	Work-As-Executed Drawings	Drawings Site Records Measurement TFNSW R271 CI 8.11	Each Noise Wall	Mark up any changes to Design Drawings On completion of construction, provide the TFNSW Representative with a set of "Work-as-Executed" drawings, incorporating approved modifications made to any details during construction	Work-as- executed drawings	IP	GC Project Manager			
51.	Maintenance Manual	TFNSW R271 CI 8.12 TFNSW R271 CI 6.3.12	Completion of Works	On completion of construction, provide a Maintenance Manual that contains the maintenance requirements and procedures for each different material in the noise wall. Include procedures for the removal of graffiti and reapplication of the anti-graffiti treatment in the Maintenance Manual.	Document – Maintenance Manual	IP	GC Project Manager			
52.	Final Completion	Drawings and Contract Document	Completion of Contract	Conformance to Drawings and Contract Documents including close out of any non-conformance	Document – Final Completion Certificate	IP	GC Project Manager			

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## LEGEND AND SIGN-OFF

INSPECTION REQUIREMENT		RESPONSIBILITY	RECORDS	RECORDS
		<u>GC CIVIL</u>		
AP	Approval Point (Written or verbal approval must be given)	PM Project Manager	CC Contract Correspondence	HR Hold Point Release
HP	Hold Point (work shall not proceed until the HP is released)	PQR Project Quality Representative	CD Contract Documents	MR Maintenance Report
WP	Witness Point (give notice to allow inspect)	CM Construction Manager	COC Certificate of Currency of Insurance	NCR Non-Conformance Report
IP	Inspection point (Formal Inspection to be done and recorded)	SM Site Manager	CPC Certificate of Practical Completion	PER Permit
TP	Test point (Product compliance test to be undertaken and recorded/reported)	TL Team Leader	CR Construction Records	PC Proof Engineer's Certificate
		<u>CLIENT</u>	DD Delivery Documents	QCC Quality Control Checklists
		CPR Client's Project Representative	DR Structural Design report	QMP Quality Management Plan
		CSR Client's Site Representative	DWG Drawings	ROL Road Occupancy License
		SR Superintendent's Project Representative	DWR Daily Works Record	SI Site Instruction
		SO Surveillance Officer	EC Engineer's Certificate	SV Survey Record
		<u>PROJECT CONSULTANTS</u>	EMP Environmental Management Plan	SZA Speed Zone Authorization
		RS Registered Surveyor	ESCP Erosion & Sedimentation Control Plan	TR Laboratory Test Report
		GE Geotechnical Engineer	FC Final Certificate	TCP Traffic Control Plan
		SD Structural Design Engineer	GR Geotechnical Report	TMP Traffic Management Plan
		PE Proof Engineer	BR Building Report	VMP Vehicle Movement Plan
		<u>OTHER</u>		WAE Work-As-Executed Drawings
		SUB Subcontractor		
		SUP Supplier		
		NL NATA Certified Testing Laboratory		
		TMC TFNSW Traffic Management Centre		
		PR Project Rep		

Amendment	Date:	Reviewed:	Validation	Acceptance
			I certify that the works have been constructed in accordance with this Inspection & Test Plan	I have inspected and accept the completed works have been constructed in accordance with this Inspection & Test Plan
			GC Civil Representative:	Client Representative:
			Signed:	Signed:
			Date:	Date: