Fulton Hogan	**Inspection and Test Plan - Control and Supervision of the Works**	**Doc ID:** FH-ZU2-QU-ITP042 **REV:** 0

Client: Melbourne Airport	**Contract No:** CP14038-01	**Prepared By:** Giuliano Follacchio
Project: Taxiway Zulu	**Reviewed By:** Giuliano Follacchio	**Date:** 10/5/24
Construction Process: AGL Shallow Base Cans	**Approved By:** Giuliano Follacchio	**Date:** 10/5/24
Specifications: ZULU-BECA-001-SPC-00003		
Structure / Component: AGL		

Lot No:	Lot Details:	Lot size/Quantity:	Date:

Item No.	Task / Activity Description	Inspection/Test					HP / WP AP / IP / TP /SCP	Responsibility Project Engineer Superintendent Surveyor Foreman	Checked by:			
		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity			Subcontractor	Beca	FH	Date
1.0	**Preliminary Works**											
1.1	Check for correct documentation	Prior to commencing any activity	Ensure that all employees and subcontractors are using the latest and complete set of drawings	IFC Drawings	Verify	Drawings	**IP**	Project Engineer				
1.2	Implementation of all measures and controls	Prior to commencing any activities	All necessary measures and controls are being implemented, that is PSP, EMP, TMP, SWMS & WP.	PSP, EMP, TMP, JSEA, SWMS, WP	Verify	Site and office Inspection	**HP***	Project Engineer / Site Supervisor				
1.3	Material/equipment approvals	Prior to start	Materials and equipment that shall be used in the construction of the works as nominated on the Drawings.	ZULU-BECA-001-SPC-00003 cl 2.3	Verify	Aconex reference(s)	**HP***	Project Engineer				
1.4	Setting out for airfield luminaires	Each Lot	**HOLD POINT** The Contractor shall survey the proposed light locations in conjunction with the new and existing line-marking to set out the proposed lights. A schedule of the proposed lights shall be produced and submitted to the Contract Administrator.	ZULU-BECA-001-SPC-00003 cl 5.4	Verify	Aconex reference	**HP**	Project Engineer / **Beca**				

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2.0	**Removal of Existing Can**											
2.1	Removal of existing AGL can	Each lot	**Removal in Rigid Pavement** - Core required depth of pavement. - Apply prime coat. - Pour BluCem HE80AG in 100mm layers and screeded. **Removal in Flexible Pavement** - Core required depth of pavement. - Apply tack coat. - Reinstate with asphalt and compact.	ZULU-BECA-024-DWG-07513	Visual Inspection	This ITP signed Avionics Removal of Existing Can checklist	**IP**	Project Engineer				
3.0	**Installation of Shallow Base Can**											
3.1	Inset luminaire base can	Each lot	**Installation in Rigid Pavement** - Core depth and pavement embedment for can as per can/fitting manufacturers recommendation. - Epoxy sealant as per can/fitting manufacturer's specifications - DOWSIL 888 to gap between AGL can and pavement.	ZULU-BECA-024-DWG-07501 ZULU-BECA-024-DWG-07506-8	Visual Inspection	This ITP signed Avionics Shallow Canister Installation checklist	**IP**	Project Engineer				

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		Frequency	Acceptance Criteria	Reference Documents	Inspection / Test Method	Record of conformity			Subcontractor	Beca	FH	Date
			Installation in Flexible Pavement - 500mm deep circular concrete (Rapid Set) block (500mm diameter for 8" cans, 600mm diameter for 12" cans). - Core depth and pavement embedment for can as per can/fitting manufacturers recommendation. - Epoxy sealant as per can/fitting manufacturer's specifications - DOWSIL 890SL to gap between AGL can and pavement.									

Final Inspection

The signature below verifies that this ITP has been completed in accordance with the Fulton Hogan's Quality system Procedures and verifies lot compliance with specifications.

Print Name: **Position:** **Signature:** **Date:** / /

Legend:

HP	Hold Point	Work shall not proceed past the HP until released by the Superintendent	**IP**	Inspection point	Formal Inspection to be done and recorded
HP*	Fulton Hogan Hold Point	Work shall not proceed past the HP* until released by Fulton Hogan	**TP**	Test Point	Product compliance test to be undertaken and recorded/reported

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WP	Witness Point	An inspection which must be witnessed by the Superintendent	**SCP**	Survey conformance point	A qualified surveyor to check product/section/structure and report
AP	Approval Point	Written or verbal approval given by the Superintendent			

Notes	

Removal of Existing Canister

AVIONICS LIMITED
LIGHTING THE WAY

Fitting ID:	
Light Type:	
Work Area:	
Drawing Number:	

Task Details	Signature:	Date:	Name:	Status:
Task number 1: DILAPIDATION SURVEY - PIROR TO ISOLATING - Confirm dilapidation survey has been complete. (By Fulton Hogan) - Confirm light top is working, with both sides lighting up (By Fulton Hogan)				
Task number 2: PRE-WORKS: - Identify and mark light including direction it is mounted. - Identify type of light (runway Centreline, Touchdown Zone Light, Taxiway Light) - Isolate power from Light fitting. - Remove light fitting from existing base, ensure it is marked and store. - Lower and protect existing cable in below Light base.				
Task number 3: WORKS: - Mark new core hole and alignment markings. - Core 250mm diameter to a depth of 160-170mm deep. - Remove base, existing foundation and conduit and clean void.				
Task number 4: WORKS: - Apply prime/tack coat around the hole (where required as per the IFC drawings) - Pour concrete/asphalt (or approved equivalant - bluey grout HE80AG) in void and fill to finished surface level. - For bluey grout HE80AG ensure poured in 100mm layers and fill to finished surface level.				
Task number 5: WORKS: - Apply Fosroc Nitobond HAR (or approved equivalanet) to surface of concrete (or approved equivalent)to ensure smooth finish and prevent cracking. - Ensure finished/compacted as per spec and IFC drawings.				
Task number 6: ONCE WORKS COMPLETE: - Clean pavement area. - Pack all equipment away. - Demobilize - FOD Check				

Asset:

Shallow Canister Installation

AVIONICS LIMITED
LIGHTING THE WAY

Fitting ID:	
Light Type:	
Work Area:	
Drawing Number:	

Task Details	Signature:	Date:	Name:	Status:
Task number 1: PRE-WORKS - Ensure light position and aiming points are marked out (By Fulton Hogan)				
Task number 2: RE-INSTALLATION WORKS: - Core 250mm at light position. - Remove core for base positioning				
Task number 3: RE-INSTALLATION WORKS: - Position new base into alignment jig. - Position base into core hole, level and align to survey marks. - Pour epoxy around canister as per specification - If canister location falls on expansion joint, ensure ableflex is installed in lieu of epoxy where required as per details outlined in ZULU-BECA-024-DWG-07509				
Task number 4: RE-INSTALLATION WORKS: - Position female secondary connector into light base and earth lead. - Tighten nyloc gland to fit snug with 4mm secondary cable and 6mm earth cable.				
Task number 5: ONCE EPOXY HAS CURED: - Position blanking plate into new base. - Install M10 Nuts. - Torque nuts to 40Nm/Paint				
Task number 6: RE-INSTALLATION WORKS: - Install silicone joint sealant as outlined in the IFC drawings. Dowsil 888 to be used for expansion joints in concrete and SL980 to be used for asphalt slots. Ensure that the sealant has been installed in a consistent fashion along the slot and at an adequate height in relation to the top of the slot.				
Task number 7: RE-INSTALLATION: - Clean pavement area. - Pack all equipment away. - Demobilize - FOD Check				

Asset:

Shallow Canister Installation w/ foundation

AVIONICS LIMITED
LIGHTING THE WAY

Fitting ID:	
Light Type:	
Work Area:	
Drawing Number:	

Task Details	Signature:	Date:	Name:	Status:
Task number 1: PRE-WORKS (Foundation Works): - Ensure light position and aiming points are marked out (By Fulton Hogan)				
Task number 2: WORKS (Foundation Works): - Core 500mm (600mm for 12-inch canister) diameter to a depth of 500mm - Remove base and clean void				
Task number 3: WORKS (Foundation Works): - Pour Rapidset concrete to correct level for light base install. Allowing for total of 130mm of Asphalt layers. - Apply Fosroc Nitobond HAR to surface of new foundation. - Position Asphalt in hole/void and fill to finished surface level (to be completed by FH as per drawing ZULU-BECA-024-DWG-07501)				
Task number 4: ONCE WORKS COMPLETE (Foundation Works): - Clean pavement area. - Pack all equipment away. - Demobilize - FOD Check				
Task number 5: PRE-WORKS (Shallow Canister Installation) - Ensure light position and aiming points are marked out (By Fulton Hogan)				
Task number 6: RE-INSTALLATION WORKS (Shallow Canister Installation): - Core 250mm at light position. - Remove core for base positioning				
Task number 7: RE-INSTALLATION WORKS (Shallow Canister Installation): - Position new base into alignment jig. - Position base into core hole, level and align to survey marks. - Pour epoxy around canister as per specification				
Task number 8: RE-INSTALLATION WORKS (Shallow Canister Installation): - Position female secondary connector into light base and earth lead. - Tighten nyloc gland to fit snug with 4mm secondary cable and 6mm earth cable.				
Task number 9: ONCE EPOXY HAS CURED (Shallow Canister Installation): - Position blanking plate into new base. - Install M10 Nuts. - Torque nuts to 40Nm/Paint				
Task number 10: RE-INSTALLATION WORKS (Shallow Canister Installation): - Install silicone joint sealant as outlined in the IFC drawings. Dowsil 888 to be used for expansion joints in concrete and SL980 to be used for asphalt slots. Ensure that the sealant has been installed in a consistent fashion along the slot and at an adequate height in relation to the top of the slot.				

Asset:

Shallow Canister Installation w/ foundation

Fitting ID:	
Light Type:	
Work Area:	
Drawing Number:	

Task Details	Signature:	Date:	Name:	Status:
Task number 11: RE-INSTALLATION (Shallow Canister Installation): - Clean pavement area. - Pack all equipment away. - Demobilize - FOD Check				

Asset: