

Project: Fulton Hogan – Craigieburn Road Upgrade

<https://dashboard.con.qa/#/account/92386481-abfa-4672-b1b6-33f5bc00033d/project/22b6e739-211b-4ae4-a9ea-3ccc4bcfe0da>

<https://account.con.qa/matrix/92386481-abfa-4672-b1b6-33f5bc00033d/22b6e739-211b-4ae4-a9ea-3ccc4bcfe0da>

Example 1 – Duplicate columns

CONTEXT:

All three matrices require two columns just for the 'Work Completed On' textbox (*Figure 1*):

Work Completed On		Work Completed On
		-
10/10/2021	26/10/2021	
14/01/2022	14/01/2022	

Figure 1

In *Figure 2*, the rows are pulling from the same type of checklist (*ITP-006 - Excavation, Fill with Type B and Subgrade Prep*), but one is more recent and has had changes made to its **Final Inspection** checkpoint.

Specifically, this relates to the location of the ‘*Work Completed On*’ textbox. The more recent checklist (*Figure 3*) has it nested within the **Final Inspection** checkpoint as a child, whilst the older version (*Figure 4*) has it as a standalone *checkpoint-no-status*, and is named accordingly as **Final Inspection - Work Completed On**:

022	17/05/2022		EAL- Earth Lot
022		19/05/2022	EAL- Earth Lot
022		19/05/2022	EAL- Earth Lot
022		19/05/2022	EAL- Earth Lot
022			EAL- Earth

Figure 2

Final Inspection

PASS

FAIL

N/A

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:

Qassim Al-Montafjy

Position:

SE

Date:

30/05/2022

Work Completed On

17/05/2022

Add comment

Figure 3

Final Inspection

PASS

FAIL

N/A

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:

Qassim Al-Montafjy

Position:

SE

Date:

09/06/2022

Add comment

Final Inspection - Work Completed On

Work Completed On

19/05/2022

Add comment

Figure 4

ISSUE:

Due to the limitations of tags, we need to include an extra column specifically to pull data from the standalone checkpoint, resulting in a duplication of columns to accommodate the older checklist (Figure 5):

	ITP-083 - Precast Concrete Install	dynamic	area 1 itp's	ITP-083 -
Columns				
	Lot Created On	Lot Created On	1.0 lot information	
	Lot Opened On	Lot Opened On	1.0 lot information	
	Work Commenced On	Work Commenced On	1.0 lot information	
	Work Completed On	Work Completed On	final inspection	
	Work Completed On	Work Completed On	final inspection - work completed on	
	Lot Type	Lot Type	1.0 lot information	
	From and To Chainage	From and To Chainage	1.0 lot information	
	Construction Element	Construction Element	1.0 lot information	
	Activity	Activity	1.0 lot information	

Figure 5

SOLUTION:

However, with the (hypothetical) introduction of matrix keys, we could instead define a common key for both checkpoints and reference it directly when building the matrix:

	ITP-082 - Structural Patch Repair	dynamic	area 1 itp's
	ITP-083 - Precast Concrete Install	dynamic	area 1 itp's
Columns			
	Lot Created On	Lot Created On	1.0 lot information
	Lot Opened On	Lot Opened On	1.0 lot information
	Work Commenced On	Work Commenced On	1.0 lot information
	Work Completed On	Work Completed On	fiwco_itp006
	Lot Type	Lot Type	1.0 lot information

Figure 6 (example only)

In Figure 6, “fiwco_itp006” is a reference to the key shared by both checkpoints, which we would have defined via bulk edit to the **Final Inspection** and **Final Inspection - Work Completed On** checkpoints on all ITP-006 checklists throughout the project.

The end result is the matrix no longer requiring a duplicate column:

Entry - Bottom Of Subgrade							
ITP-006-A1-LOT-033- Hume Hwy North Median - CH70460 - CH70490 - SB- Entry - 400 below subgrade	19/05/2022	18/05/2022	19/05/2022	19/05/2022	EAL- Earthworks Lot	70465 to 70490	EAL- Earthworks Lot
ITP-006-A1-LOT-034- Hume Hwy North Median - CH70460- CH70490 - SB- Entry - 200mm below Subgrade/ Cut floor	18/05/2022	18/05/2022	18/05/2022	19/05/2022	EAL- Earthworks Lot	70460 to 70490	EAL- Earthworks Lot
ITP-006-A1-LOT-035- Hume Hwy North Median - CH70460- CH70490 - SB- Entry - Subgrade	19/05/2022	19/05/2022	19/05/2022	19/05/2022	EAL- Earthworks Lot	70460 to 70490	EAL- Earthworks Lot
ITP-006-A1-LOT-036 -	24/05/2022	24/05/2022	24/05/2022		EAL -		EAL -

Figure 7 (example only)