Mezzanine Inspection Report REVISION 1 Date: 12/12/2014 Station Name: C13 King Street South Mezzanine #: 048 Completed By: Chris Loose

Summary

Video scoping and pull string installation was successfully completed in the communication ducts for the upper and lower faregate arrays. Video scoping was completed in the power ducts for the upper and lower faregate arrays. Video scoping and pull string installation was not completed in the power run between the kiosk and the AFC panel. The duct was at capacity between the kiosk and handhole 1 and from handhole 1 to handhole 2. The duct was scoped from handhole 2 to approximately 30' beyond the door leading to the backrooms before hitting a 90 degree bend in the floor that drops down to the lower level where the AFC panel is. Pull string was not installed as rodding could not be completed past the 90 degree bend.

Scanning was completed at this station. A proposed in-floor duct route with a transition to conduit is included in this report. The proposed duct will run almost parallel to the existing duct, running on the opposite side of the column on the mezzanine floor. The proposed duct will run into the backrooms through doorway and then will transition to a proposed conduit via a proposed handhole. The conduit will run vertically up the wall and along the corridor. The proposed conduit will then drop vertically down and will be core drilled into the floor until it reaches the AFC panel in the room below.

Photos and

drawings are for reference purposes only; see new schematic drawing/proposed pathway on last page.

Task 4	Yes/No	Notes			
Communications Duct – Upper Faregate Array (5 Gates)					
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA King St. South Upper Comm 6inch Duct Video.avi and WMATA King St. South Upper Comm 3inch Duct Video.avi files.			
Were pull strings installed at all faregates in the array?	Yes				
Were there any obstructions or blockages? Provide details of type and specific location.	No	Minor dust and debris			
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	3" duct, less than 15 wires			
Communications Duct - Lower Faregate Array (5 Gates)					
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA King St. South Lower Comm 6inch Duct Video.avi and WMATA King St. South Lower Comm 3inch Duct Video.avi files.			
Were pull strings installed at all faregates in the array?	Yes				
Were there any obstructions or blockages? Provide details of type and specific location.	No	Minor dust and debris			
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	3" duct, less than 15 wires			
Power Duct - Upper Faregate Array (5 -Gates)					
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA King St. 6inch Upper Power Faregates Video.avi file.			
Were there any obstructions or blockages? Provide details of type and specific location.	No				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct, less than 15 wires			
Power Duct - Lower Faregate Array (5 Gates)					
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA King St. 6inch Lower Power Faregates Video.avi file.			
Were there any obstructions or blockages? Provide details of type and specific location.	No				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct, less than 15 wires			

Scoping of Power Duct - Kiosk to AFC Panel				
Task	Yes/No	Notes		
Kiosk to Handhole 1 (80' run)				
Was video scoping completed for the entire duct / conduit run?	No	Scoping could not be completed past the 45 degree bend in duct run. Refer to WMATA King St. 6inch Power Kiosk to 45 degree Bend Video.avi file.		
Was pull string installed?	No			
Were there any obstructions or blockages? Provide details of type and specific location.	No			
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	Yes	6 inch duct with more than 60% capacity - video file shows that there are large clusters of wires causing obstruction at bends.		
Handhole 1 to Handhole 2 (20' run)				
Was video scoping completed for the entire duct / conduit run?	No	Scoping could not be completed past the 45 degree bends between handholes. Refer to WMATA King St. 6inch Power HH1 to HH2 Video.avi file.		
Was pull string installed?	No			
Were there any obstructions or blockages? Provide details of type and specific location.	No			
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	Yes	6 inch duct at more than 60% capacity - video file shows that there are large clusters of wires causing obstruction at bends.		
Handhole 2 to AFC Panel (50' run)				
Was video scoping completed for the entire duct / conduit run?	No	Could not complete scoping past 90 degree bend in floor to the lower level.		
Was pull string installed?	No			
Were there any obstructions or blockages? Provide details of type and specific location.	No			
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	Yes	6 inch duct with more than 50% capacity.		
	Observation	ns / Issues / Next Steps		

Total existing power duct run is approximately 150'

Total proposed power run is approximately 100' of duct and 65' of conduit for a total of 165'

Video scoping was attempted in communication duct for mini-faregate on mezzanine floor, however there was an obstruction in duct at 5' from the Kiosk. Refer to Photo #7-8 and as-built drawing for location

Sign Off					
	GFP Representative	WMATA PRGM			
Name:	Zach Fitzwater				
Signature:	16/				
Date:	01/30/2015				

Photo #1 – C13 King Street South: Kiosk with existing and proposed duct runs



Photo #2 – C13 King Street South: Existing and proposed duct runs towards backrooms

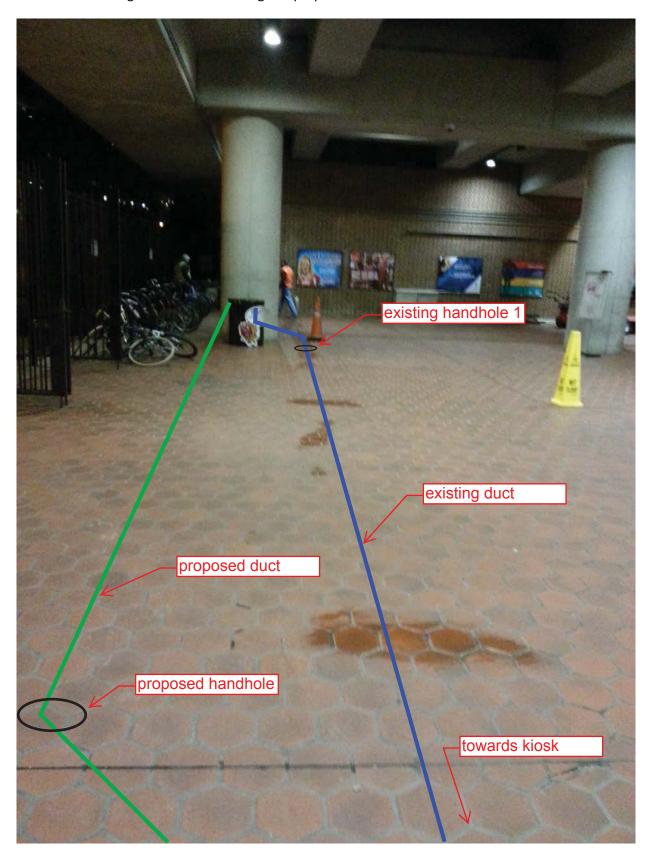


Photo #3 – C13 King Street South: Existing and Proposed Duct runs at door to backroom

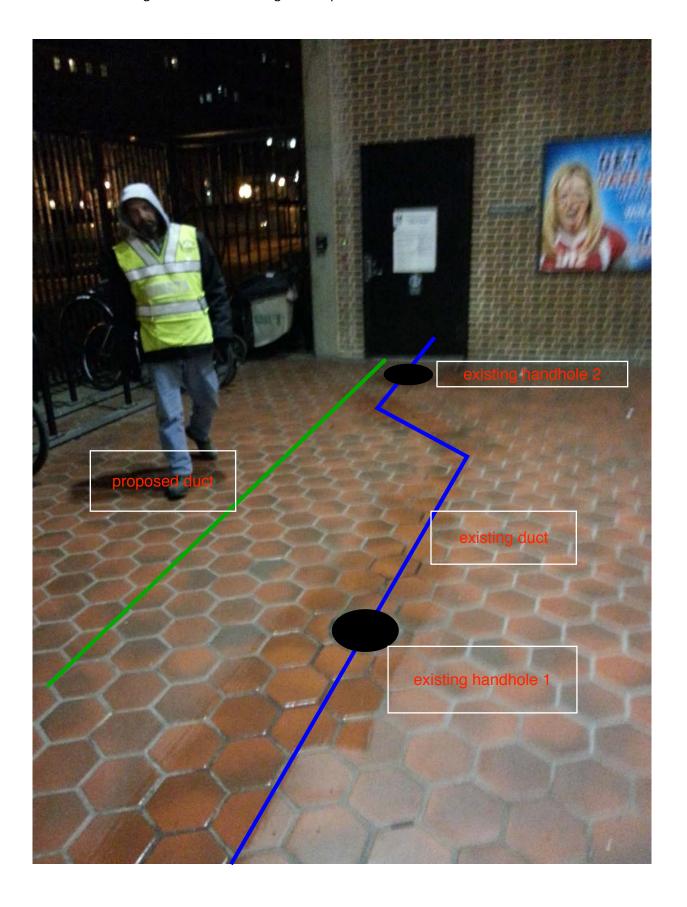


Photo #4 – C13 King Street South: Existing duct and proposed duct /conduit transition in back rooms towards AFC panel

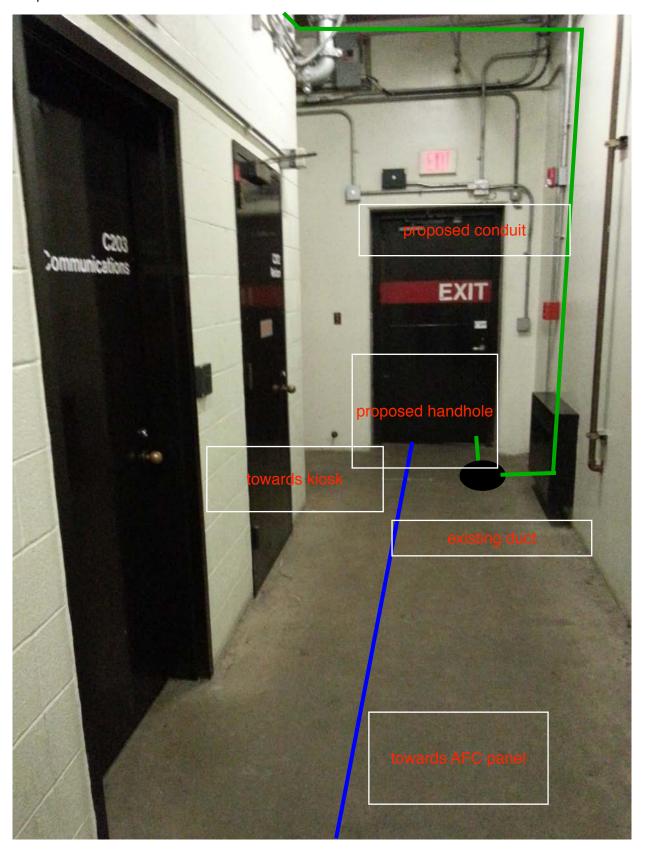


Photo #5 – C13 King Street South: Existing duct and proposed conduit drop in floor to lower level towards AFC panel

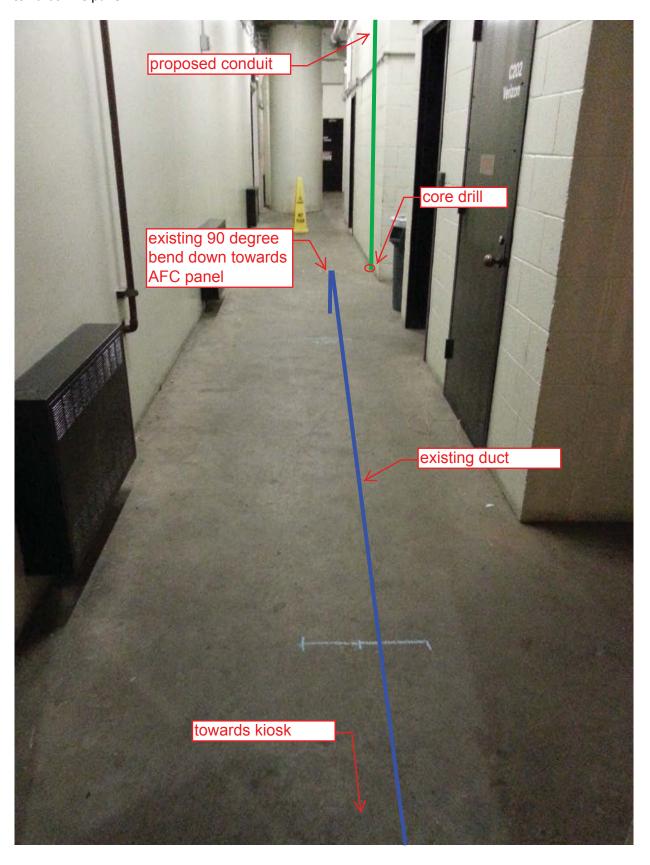


Photo #6 – C13 King Street South: Existing duct and proposed conduit towards AFC panel on lower level

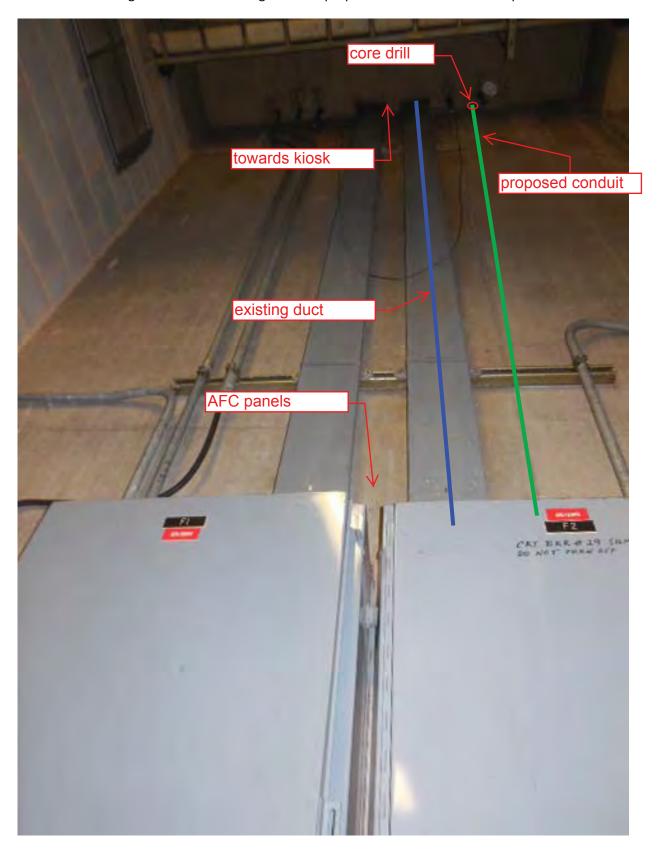


Photo #7 – Mini-faregates on mezzanine floor



Photo #8 – Mini-faregates on mezzanine floor (close-up)



