

## Mezzanine Inspection Report

<b>Date:</b> 11/26/2014	<b>Station Name:</b> E03 – U Street West	<b>Mezzanine #:</b> 074	<b>Completed By:</b> Mike Butler
-------------------------	--	-------------------------	----------------------------------

### Summary

Scoping and pull string installation was completed for the communication ducts in the upper and lower faregate arrays. Video scoping was also completed for the power ducts in the upper and lower faregate arrays. Scoping and pull string installation was completed in power duct between Kiosk and Handhole 1, however there are minor duct collapses and water damage clearly evident. Pull string was also installed between Handhole 1 and Handhole 2, however scoping could not be completed due to standing water in Handhole 2. Pull string could not be completed in conduit between Handhole 2 and AFC Panel due to an obstruction.

Scanning was conducted to identify a new power route from the Kiosk to AFC Panel. The results showed that there is no viable path for an in-floor duct, therefore a proposed overhead conduit is recommended between the Kiosk and AFC Panel. The proposed conduit will rise up vertically from the Kiosk and run along the recessed part of the vaulted ceiling towards the head wall. The proposed conduit will then pass under passageway's arch and run up into the ceiling plenum. The proposed conduit will run for a short distance along the passageway's ceiling plenum and then will core drill through wall into Room 214. Once inside Room 214, the conduit will snake around the wall, core drill through the CMU wall into Room 212 and then feed into the AFC Panel.

Refer to photos and drawings for further information.

### Scoping of Faregate Array(s)

Task	Yes/No	Notes
<b>Communications Duct – Upper Faregate Array (3 Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA U St. Mezz 74 Upper Comm 3inch Duct.avi".
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	
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	3" duct with less than 10 wires.
<b>Communications Duct - Lower Faregate Array (3 Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA U St. Mezz 74 Lower Comm 3inch duct.avi".
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	
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	3" duct with less than 10 wires.
<b>Power Duct - Upper Faregate Array (3 Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA U St. Mezz 74 Upper Power 6inch duct.avi".
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 with less than 12 wires.
<b>Power Duct - Lower Faregate Array (3 Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to "WMATA U St. Mezz 74 Lower Power 6inch duct.avi".
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 with less than 12 wires.


Scoping of Power Duct - Kiosk to AFC Panel		
Task	Yes/No	Notes
<b>Kiosk to Handhole 1 (Distance: 32')</b>		
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to "WMATA U St. West Station Power 6 inch Kiosk to H.H. Duct.avi".
Was pull string installed?	Yes	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Minor duct collapses and heavy water damage
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	6" duct with less than 12 wires.
<b>Handhole 1 to Handhole 2 (Distance: 35')</b>		
Was video scoping completed for the entire duct / conduit run?	No	Standing water in handhole 2 prohibited scoping.
Was pull string installed?	Yes	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Minor duct collapses and heavy water damage
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	6" duct with less than 12 wires.
<b>Handhole 2 to AFC Panel (Distance: 60')</b>		
Was video scoping completed for the entire duct / conduit run?	No	Scoping not required in conduit.
Was pull string installed?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	There was an obstruction 30' from AFC panel towards Handhole 2.
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	2" conduit with less than 8 wires.
<b>Observations / Issues / Next Steps</b>		
<p>This station is known to flood regularly leaving in-floor ducts vulnerable to water intrusion and corrosion. The total distance of proposed overhead conduit from Kiosk to AFC Panel is 182'.</p>		
<b>Sign Off</b>		
	<b>GFP Representative</b>	<b>WMATA PRGM</b>
<b>Name:</b>	Mike Butler	
<b>Signature:</b>		
<b>Date:</b>	04/06/2015	

Photo #1 – Existing duct run on mezzanine floor

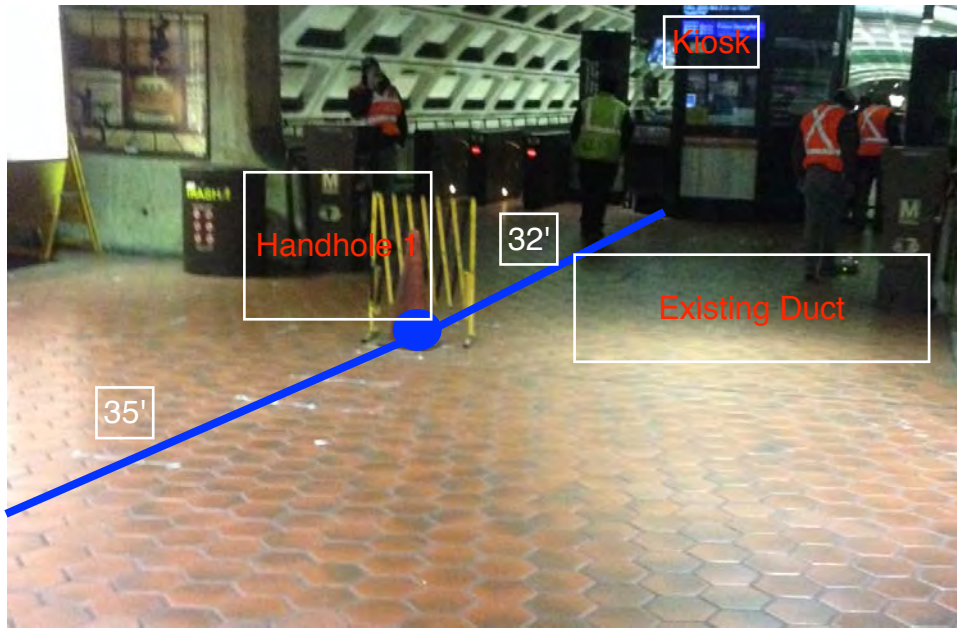


Photo #2 – Existing duct run on mezzanine floor



Photo #3 – Existing duct / conduit run in Room 214

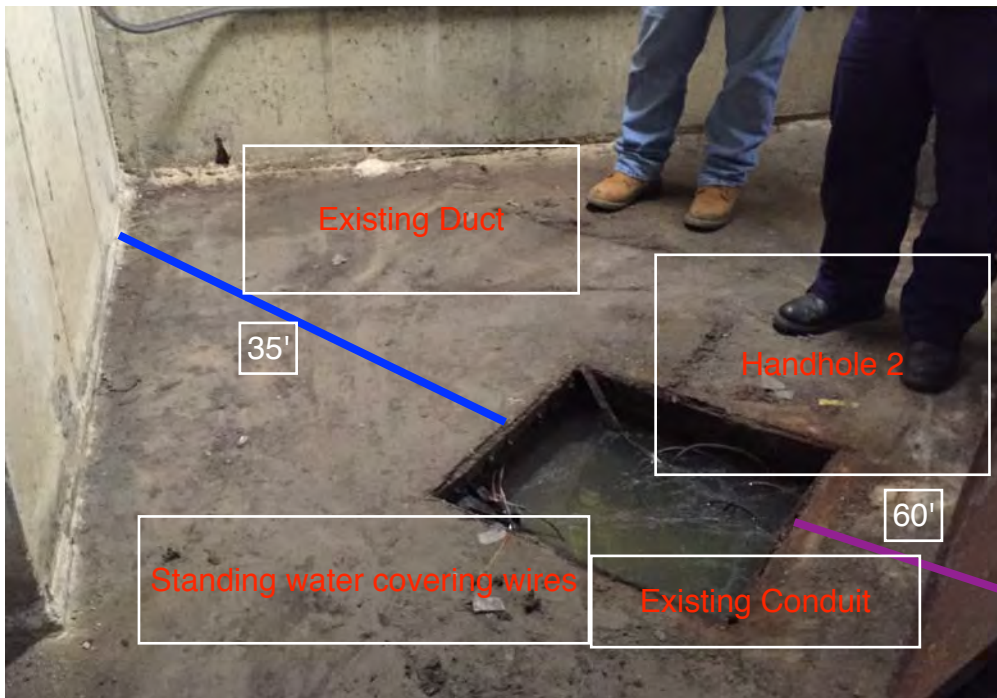


Photo #4 – Existing conduit run to AFC Panel in Room 212

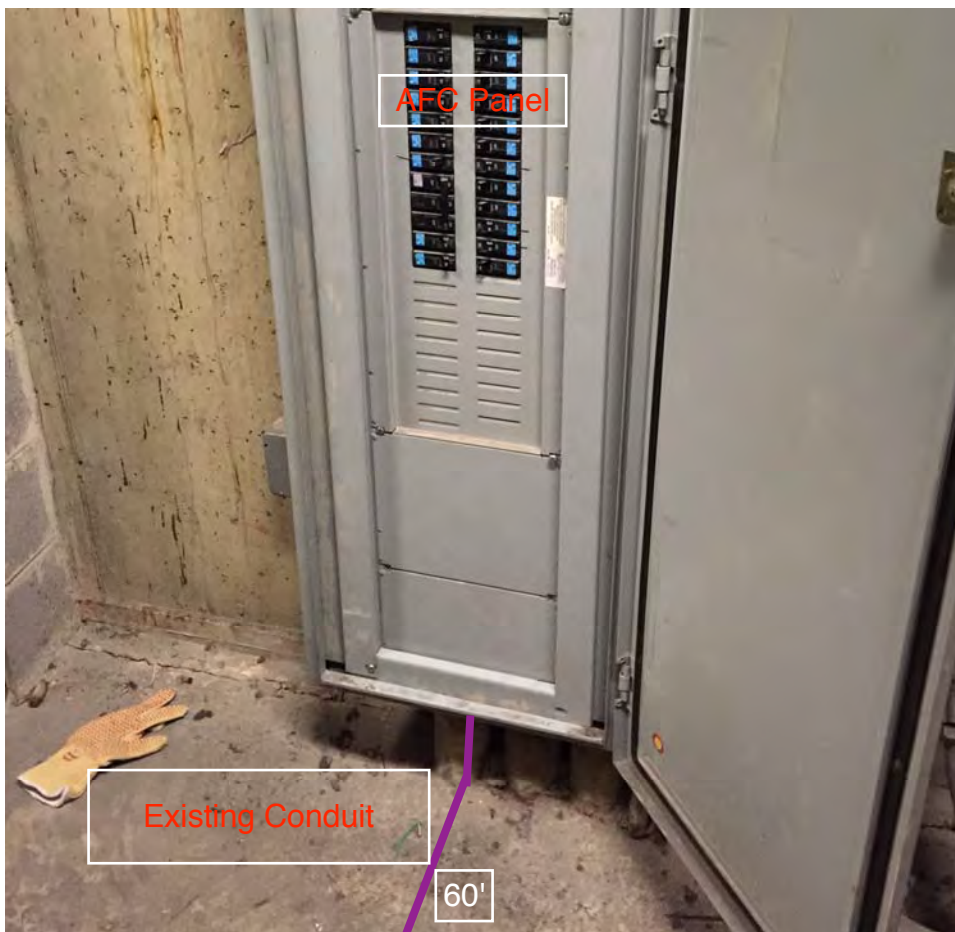


Photo #5 – Proposed overhead conduit at mezzanine

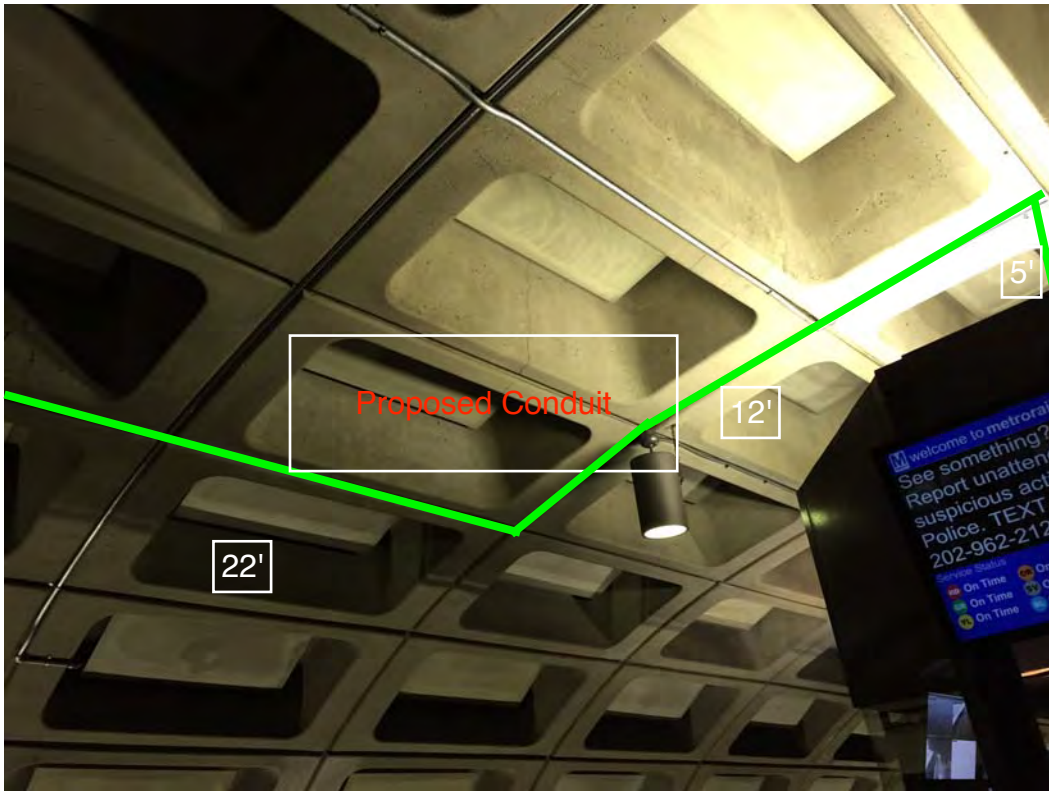


Photo #6 – Proposed overhead conduit at mezzanine

