# Mezzanine Inspection Report (Scoping) Date: 02/09/2015 Station Name: C06 Arlington Cemetery Mezzanine #: 042 Completed By: Zach Fitzwater

## Summary

Video scoping and pull string installation complete for communication duct in upper and lower faregate arrays. Video scoping complete in the power duct in the lower faregate array. Video scoping only partially completed in power duct for upper faregate array due to tangled wires near the kiosk and at the 45 degree bend to faregates. Pull string was installed in vacant 2" power conduit from kiosk to AFC panel.

Scanning is not required for this mezzanine.

Scoping of Faregate Array(s)						
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 Arlington Cemetary 3inch Upper Comm Faregate.avi and WMATA Arlington Cemetary 6inch Upper Comm Faregate.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 rust and debris				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct less than 8 wires				
Communications Duct - Lower Faregate Array (4-G	ates)					
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Arlington Cemetary 3inch Lower Comm Faregate.avi and WMATA Arlington Cemetary 6inch Lower Comm Faregate.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 rust and debris				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct less than 8 wires				
Power Duct - Upper Faregate Array (5 Gates)						
Was video scoping completed for the entire duct run?	No	Refer to WMATA Arlington Cemetary 3inch Upper Power Faregate.avi and WMATA Arlington Cemetary 6inch Upper Power Faregate.avi files.				
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Heavy rust and debris in both 6" and 3" ducts. Scoping not completed in 6" duct due to camera getting stuck halfway through faregates and the 3" duct had tangled wires at the entrance of duct inside kiosk.				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	6" duct less than 8 wires				
Power Duct - Lower Faregate Array (4-Gates)						
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Arlington Cemetary 3inch Lower Power Faregate.avi and WMATA Arlington Cemetary 6inch Lower Power Faregate.avi files.				
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Light rust and debris in both 6" and 3" ducts. 6" duct could not be scoped past 45 degree bend due to wires tangled up at bend.				
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	No	3" duct less than 8 wires				

			r Duct - Ki	Gosk to AFC Panel
	Task	Yes/No		Notes
Kiosk to AFC par	nel (55' run)			
Was video scopii conduit run?	ng completed for the entire duct /	No	Conduit –	– no scoping required
Was pull string in	stalled?	Yes		
Were there any o details of type and	bstructions or blockages? Provide d specific location.	No		
Is the duct / condition details about the number of wires.	uit at capacity? Provide additional dimensions of duct / conduit and	No	2" Condui	uit is empty
		I	T	
		Observation	ns / Issues	s / Next Steps
			Sign Off	
	GFP Representative			WMATA PRGM
Name:	Zach Fitzwater			
Signature: Date:	02/09/2015			
ıvale.	02/03/2013		J	

Photo #1 – C06 Arlington Cemetery: Kiosk to outside wall of Room C100

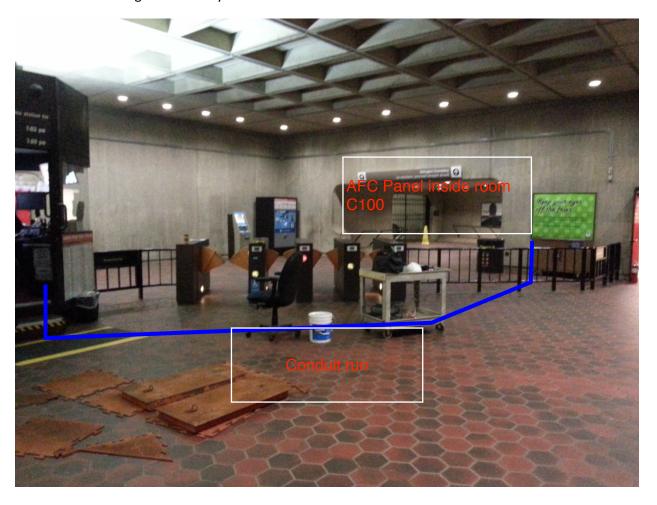
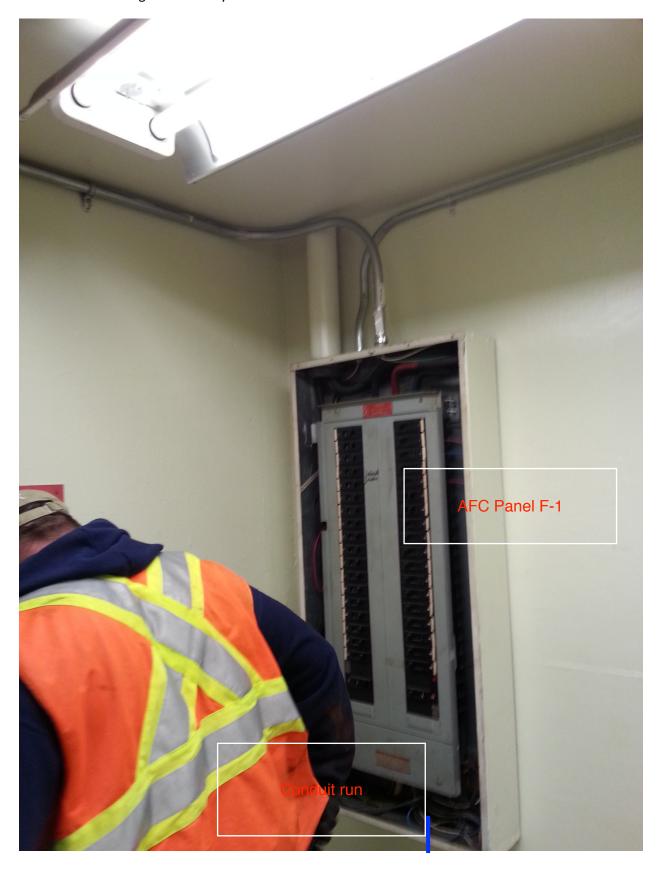
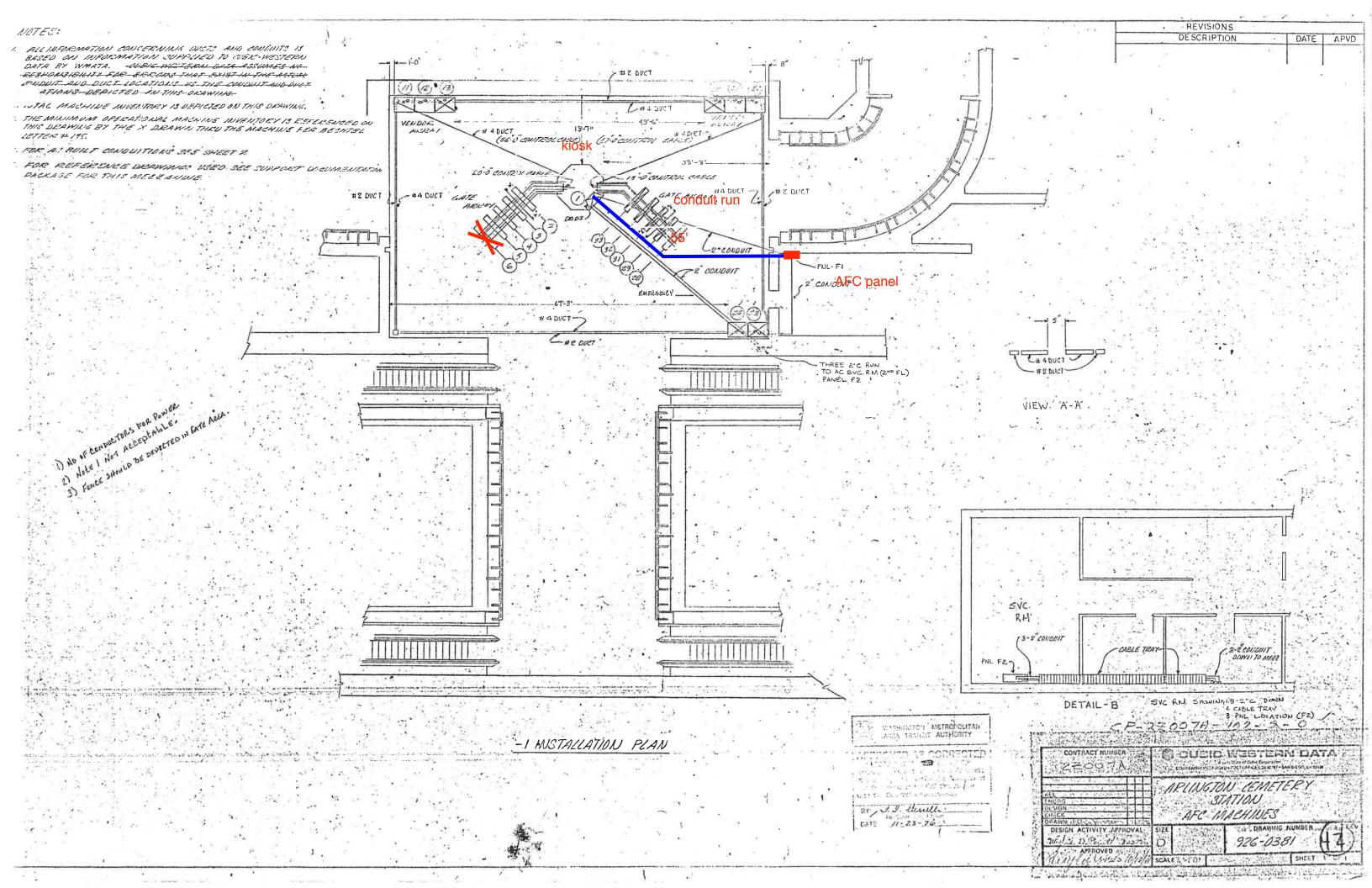


Photo #2 – C06 Arlington Cemetery: AFC Panel F-1





# Mezzanine Inspection Report Date: 06/21/15 Station Name: D01 – Federal Triangle Mezzanine #: 053 Completed By: Mike Butler Summary

**NEPP-01:** Video scoping and pull string installation completed for communication duct for the upper faregate array. However, it should be noted that power wires for the upper faregate array share the same duct as communication wires; duct is therefore not viable for further use. Video scoping and pull string installation could not be completed for communication duct in lower faregate array due to an obstruction. Video scoping could not be completed for power duct in lower faregate array due to energized wires prohibiting safe access. An alternate duct in the lower faregate array was scoped, however this duct is obstructed. Video scoping and pull string installation was not completed in power duct between kiosk and AFC Panel due to obstructions caused by two 45 degree bends in the mezzanine floor and a 90 degree vertical bend at the AFC panel. Per discussions with WMATA it was assumed that there would not be existing handholes at the bends; and therefore no attempts were made to open the mezzanine floor.

Scanning was completed at this mezzanine to identify a proposed power route between the Kiosk and AFC Panel. The scanning results showed that the mezzanine floor is congested with existing ducts/conduits and there is no clear route to run a proposed duct from the Kiosk to AFC Panel. However, an alternate duct running parallel to existing power duct was identified.

**NEPP-02:** Video scoping and pull string installation was attempted in an alternate duct that runs parallel with the existing power duct from the Kiosk to the AFC Panel. Scoping and rodding was attempted from both the Kiosk and AFC Panel, however obstructions were encountered. Video scoping showed that the duct is in bad condition and heavily corroded. An overhead conduit is proposed from the Kiosk to AFC Panel refer to attached photos and drawings for further information.

#### NEPP-01: Scoping of Faregate Arrays (02/06/15) Task Notes Yes/No Communications Duct - Upper Faregate Array (4 gates) Was video scoping completed for the entire duct Yes run? Were pull strings installed at all faregates in the Yes Duct is viable for further usage; however, power wires share the Were there any obstructions or blockages? Provide Yes details of type and specific location. same duct. A new comm. duct is proposed for CAT6 installation. Is the duct at capacity? Provide additional details 6" duct less than 10 wires. No about the dimensions of ducts and number of wires. Communications Duct - Lower Faregate Array (10 gates) Was video scoping completed for the entire duct No run? Were pull strings installed at all faregates in the Nο array? Were there any obstructions or blockages? Provide Yes Duct obstructed at gate 3/4. details of type and specific location. Is the duct at capacity? Provide additional details 6" duct less than 20 wires. No about the dimensions of ducts and number of wires. Power Duct - Upper Faregate Array 4 gates) Was video scoping completed for the entire duct Yes run? Duct is viable for further usage; however, comm. wires share the same Were there any obstructions or blockages? Provide duct. It is recommended to remove the existing comm. wires following No details of type and specific location. completion of CAT6 installation in the new comm. duct and utilize the existing duct for power wires only Is the duct at capacity? Provide additional details 6" duct less than 10 wires. Nο about the dimensions of ducts and number of wires. Power Duct - Lower Faregate Array (10 gates) Was video scoping completed for the entire duct No Were there any obstructions or blockages? Provide Duct could not be scoped due to energized wires. Scoping of alternate duct Yes details of type and specific location. attempted, but obstruction encountered. Is the duct at capacity? Provide additional details 6" duct less than 20 wires. No about the dimensions of ducts and number of wires.

NEPP-01: Scoping of Existing Power Duct - Kiosk to AFC Panel (02/06/15)					
Task	Yes/No	Notes			
Kiosk to AFC Panel (Distance: 80')					
Was video scoping completed for the entire duct / conduit run?	No	Refer to "WMATA Federal Triangle South 6inch Power Kiosk to AFC Panel.avi".			
Was pull string installed?	No				
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Obstructions caused by 45 degree bend on the mezzanine floor and a 90 degree vertical bend at the AFC panel.			
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			

## NEPP-01: Scanning of Mezzanine Floor (01/28/15)

- Scanning of the mezzanine floor conducted to identify a proposed power route between the Kiosk and AFC Panel.
- Scanning results showed that the mezzanine floor is congested with existing ducts/conduits and there is no clear route to run a proposed duct from the Kiosk to AFC Panel.
- Alternate ducts running parallel to existing power duct were identified.
- There is one alternate duct with existing power wires; the remaining ducts have communication wires.

# NEPP-02: Scoping of Alternate Duct - Kiosk to AFC Panel (06/21/15)

Kiosk to AFC Panel (Distance: 80')				
Was video scoping completed for the entire duct / conduit run?	No	Refer to "D01_MZ053_Federal Triangle_Alternate Duct_Kiosk to AFC Panel.avi" and "D01_MZ053_Federal Triangle_Alternate Duct_AFC Panel to Kiosk.avi".		
Was pull string installed?	No			
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Obstructions at 45 degree bend on the mezzanine floor and a 90 degree vertical bend at the AFC panel. Duct is also heavily corroded and in poor condition.		
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 15 wires		

#### Observations / Issues / Next Steps

- The total distance of the proposed overhead conduit from Kiosk to AFC Panel is 122'.

Sign Off					
	GFP Representative	WMATA PRGM			
Name:	Mike Butler				
Signature:	Mizur				
Date:	06/23/15				

Photo 1 – Proposed overhead conduit in mezzanine.

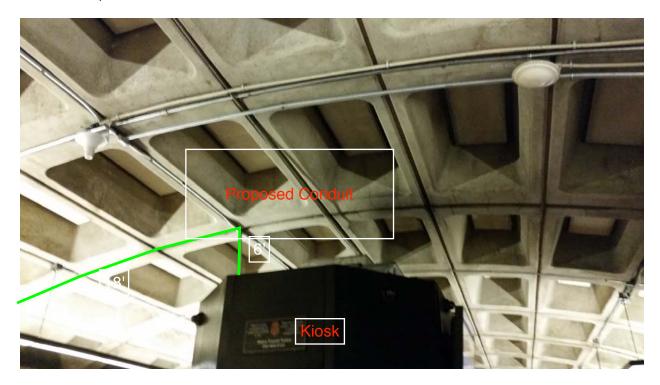


Photo 2 – Proposed overhead conduit in mezzanine.

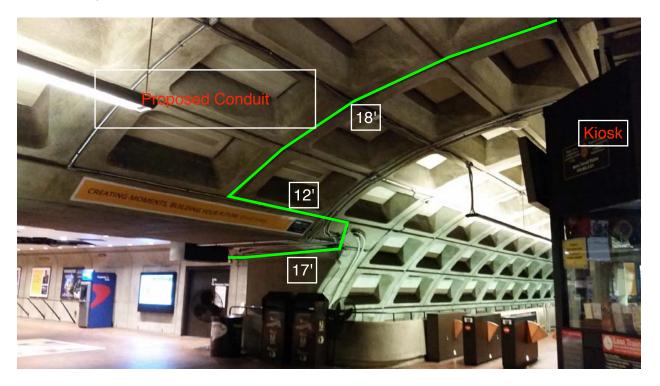


Photo 3 – Proposed overhead conduit in mezzanine.

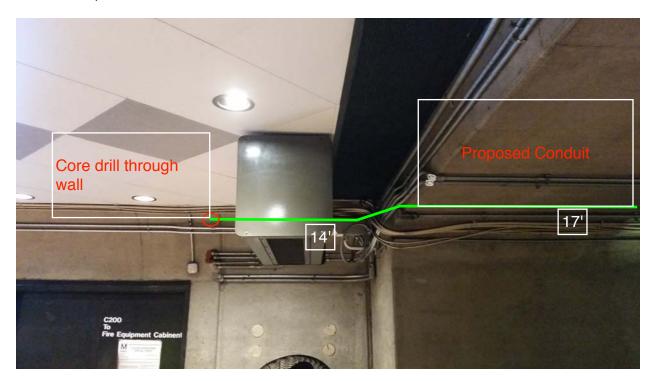


Photo 4 – Proposed overhead conduit in Room C200.

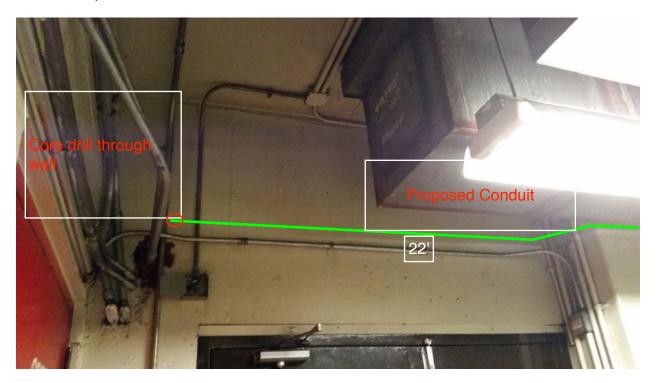


Photo 5 – Proposed overhead conduit in Room C200.

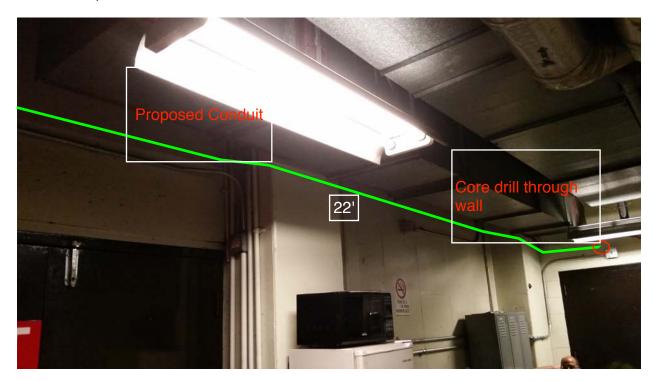


Photo 6 – Proposed overhead conduit in Room C206.

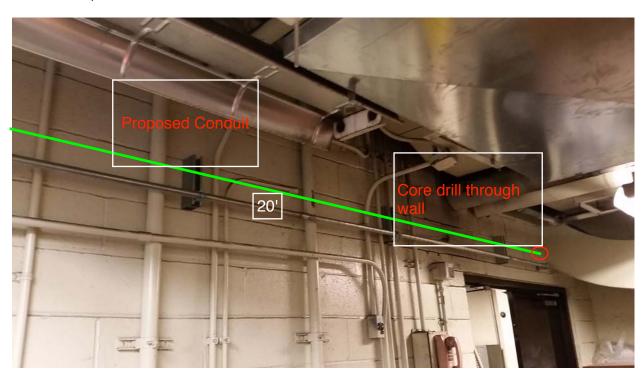


Photo 7 – Proposed overhead conduit in Room C206.

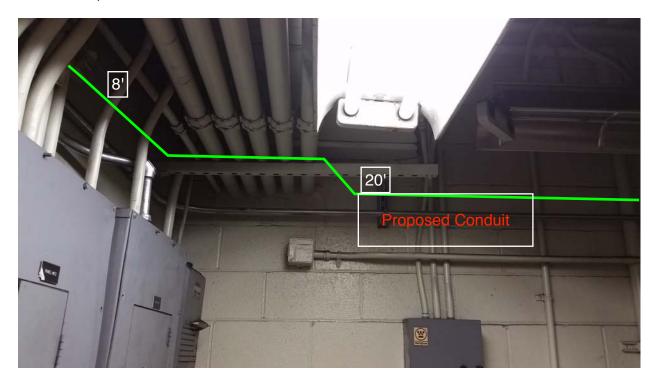
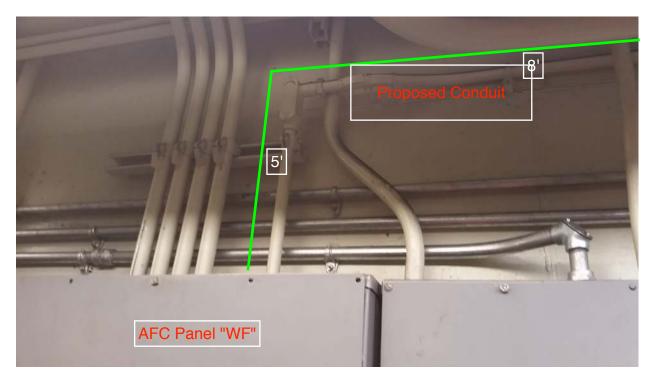


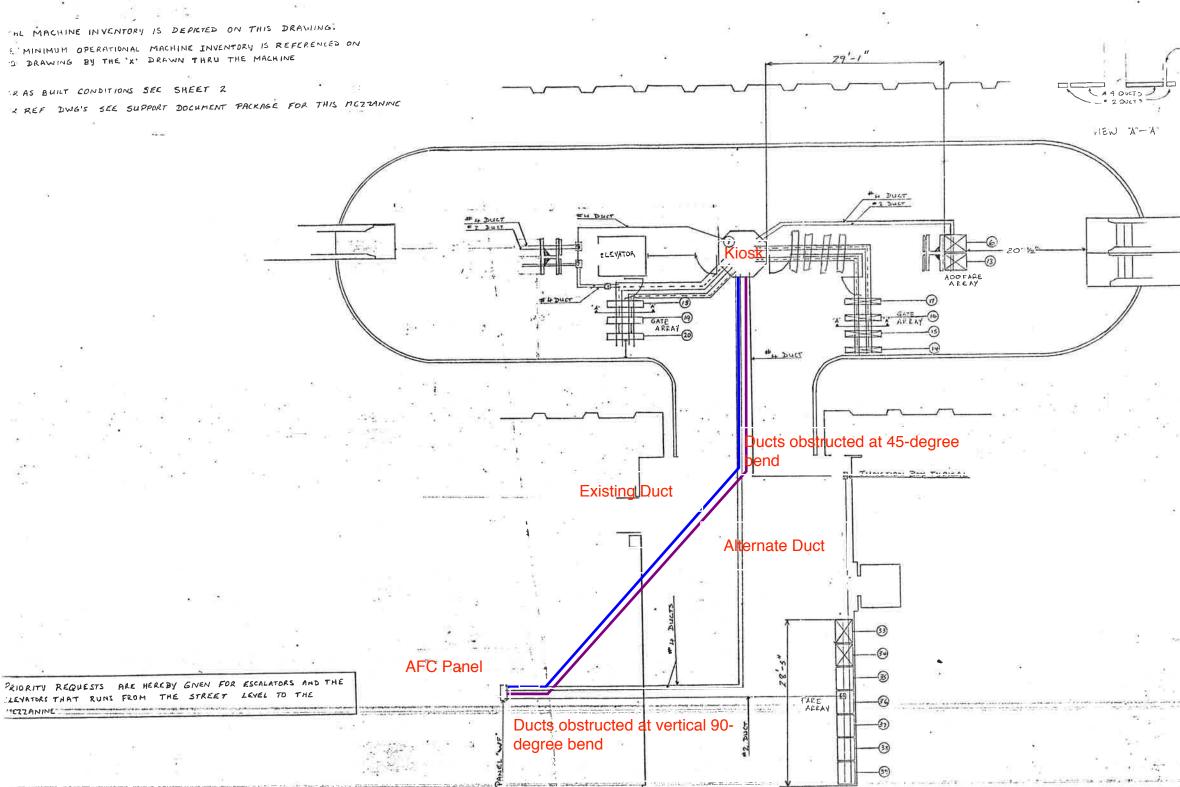
Photo 8 – Proposed overhead conduit in Room C206.



17ES: ILL INFORMATION CONCERNING DUCTS AND CONDUITS IS ASED ON INFORMATION SUPPLIED TO CUBIC WESTERN AT Y, WHATA DRAWING BY THE 'X' DRAWN THRU THE MACHINE R AS BUILT CONDITIONS SEE SHEET 2

**EXISTING DUCT LAYOUT** 

REVISIONS DESCRIPTION AS BUILT DRAWING REVISION A 7-13-77

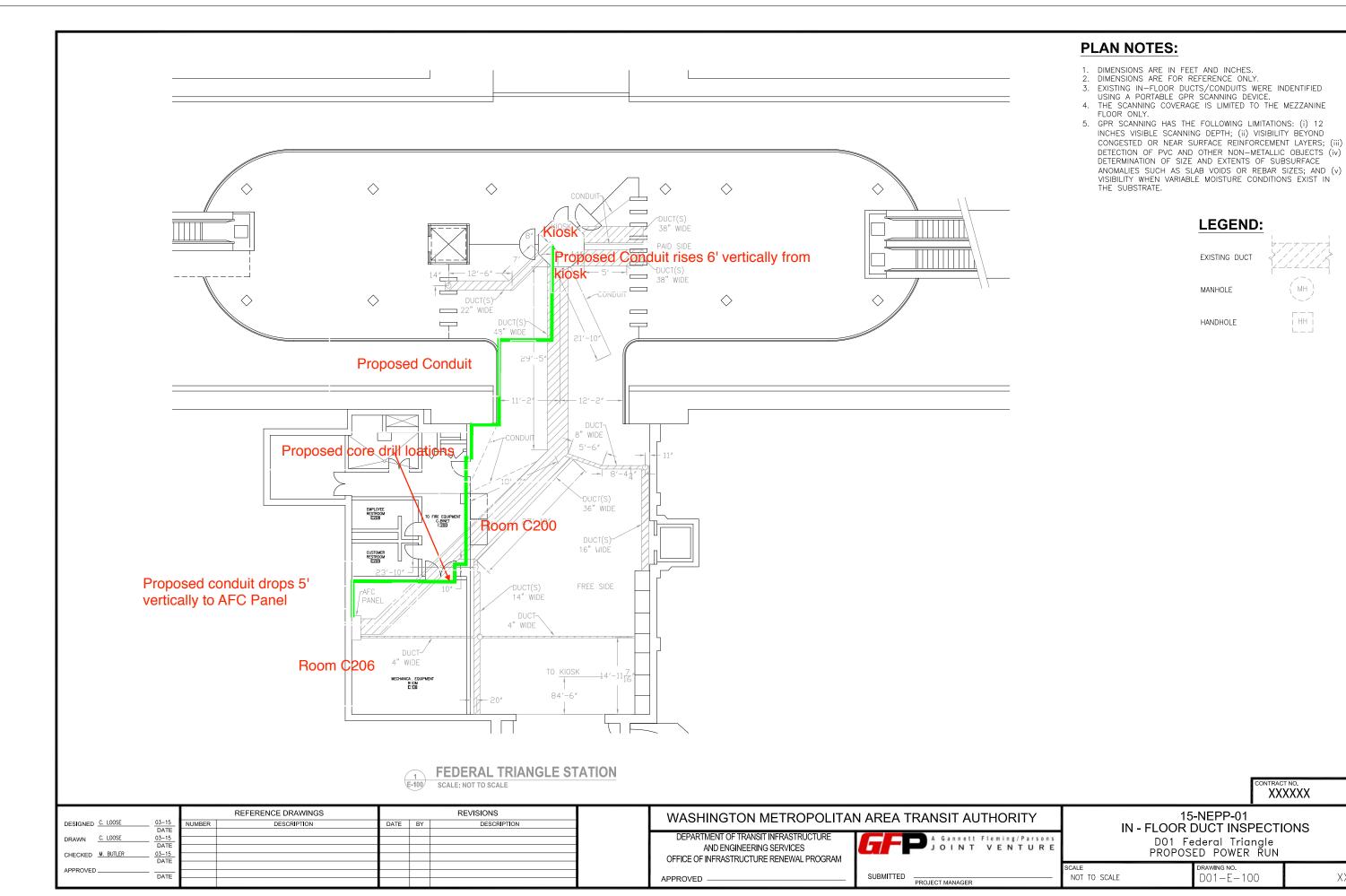


1-INSTALLATION PLAN

CUBIC WESTERN DATA

A subandrug of Cubic Corporation

5050 KEARNY MESA ROAD -POST OFFICE BOX 80787 + SAN DIEGO, CA 92138 FEDERAL TRIANGLE STATION AFC MACHINES



| HH |

NTRACT NO.

XXX