

Mezzanine Inspection Report

Date: 03/16/15	Station Name: K08 - Vienna	Mezzanine #: 103	Completed By: Mike Butler
----------------	----------------------------	------------------	---------------------------

Summary

It was not possible to complete video scoping or pull string installation in faregate array because the communication and power ducts are at capacity. In addition, the power duct between Kiosk, Handhole 1 and AFC Panel is also at capacity, therefore video scoping and pull string installation could not be completed.

After scanning of the mezzanine floor, an alternate duct was found between the Kiosk and "Handhole 1A", which is located on the mezzanine floor close to Room 400. Video scoping and pull string installation was successfully completed in the alternate duct between the Kiosk and Handhole 1A. Since there is no duct that goes from Handhole 1A to AFC Panel, it is proposed to install a new in-floor duct from Handhole 1A to Room 400. A new handhole is proposed where the duct turns 90-degrees. Once inside Room 400, the duct will transition to an overhead conduit via a proposed junction box at the base of the wall. The proposed conduit will rise up and core drill through the wall into Room 406 and then feed into the AFC Panel.

Refer to photos and drawings for further information on existing layout and proposed solution.

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

Scoping of Faregate Array(s)

Task	Yes/No	Notes
Communications Duct –Faregate Array (11 12 gates)		
Was video scoping completed for the entire duct run?	No	
Were pull strings installed at all faregates in the array?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	N/A	
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	Yes	Duct is at capacity, 60-80% full. It was not possible to completed video scoping or pull string installation.
Power Duct - Faregate Array (11 12 gates)		
Was video scoping completed for the entire duct run?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	N/A	
Is the duct at capacity? Provide additional details about the dimensions of ducts and number of wires.	Yes	Duct is at capacity, 60-80% full. It was not possible to completed video scoping.


Scoping of <u>Existing</u> Power Duct - Kiosk to AFC Panel		
Task	Yes/No	Notes
Kiosk to Handhole 1 (Distance: 65')		
Was video scoping completed for the entire duct / conduit run?	No	
Was pull string installed?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	N/A	
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	Yes	Duct is at capacity, 60-80% full. It was not possible to completed video scoping or pull string installation.
Handhole 1 to AFC Panel (Distance: 8')		
Was video scoping completed for the entire duct / conduit run?	No	
Was pull string installed?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	N/A	
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	Yes	Duct is at capacity, 60-80% full. It was not possible to completed video scoping or pull string installation.
Scoping of <u>Alternate</u> Power Duct - Kiosk to Handhole		
Task	Task	Task
Kiosk to Handhole 1A (Distance: 68')		
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to "WMATA Vienna 6inch HH to Kiosk Proposed new route for Power.avi"
Was pull string installed?	Yes	
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.	No	6" duct with no wires.
Observations / Issues / Next Steps		
<ul style="list-style-type: none"> - The total distance of the proposed power route between the Kiosk and AFC Panel is 97', including 68' of alternate duct, 11' of proposed duct and 18' of proposed conduit. 		
Sign Off		
	GFP Representative	WMATA PRGM
Name:	Mike Butler	
Signature:		
Date:	03/23/15	

Photo 1 – Existing / Proposed duct layout on mezzanine floor

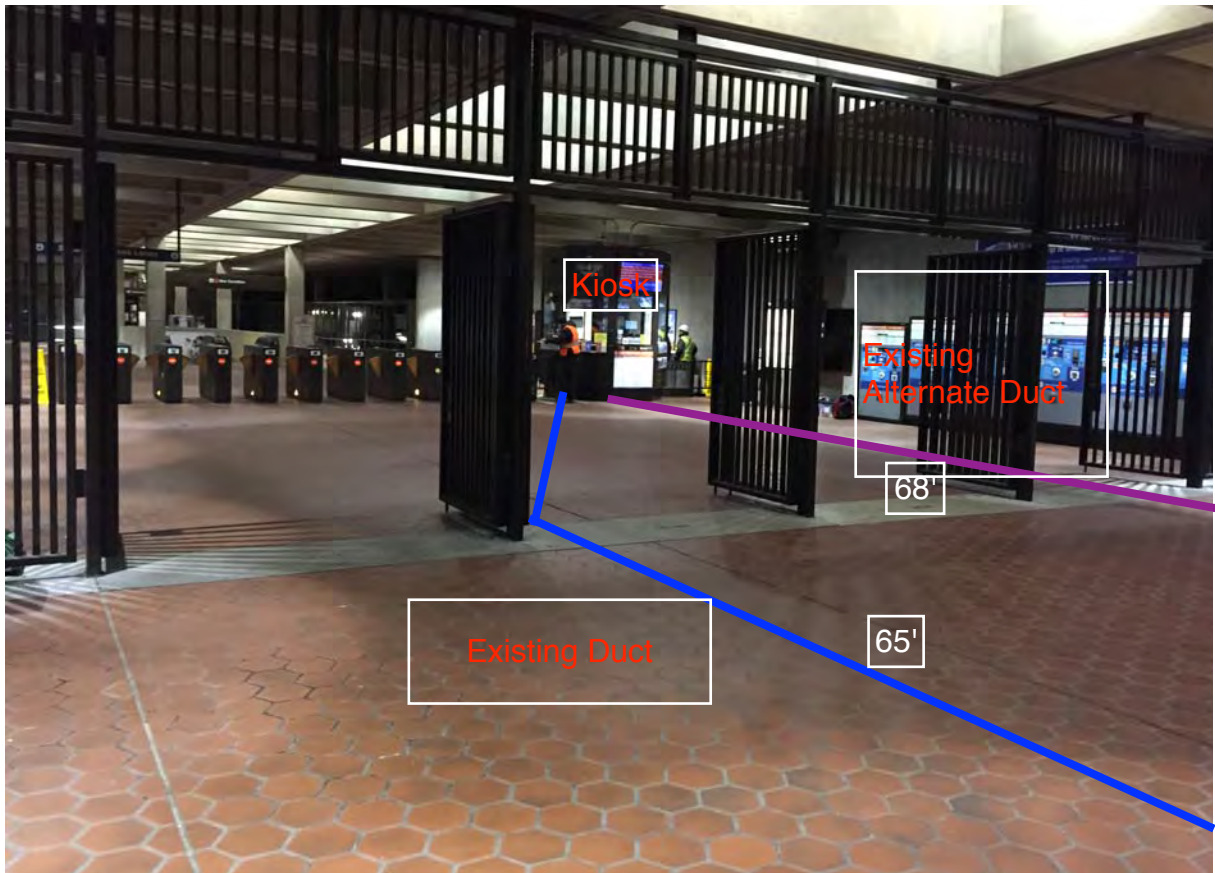


Photo 2 – Existing / Proposed duct layout on mezzanine floor



Photo 3 – Existing / Proposed duct layout on mezzanine floor

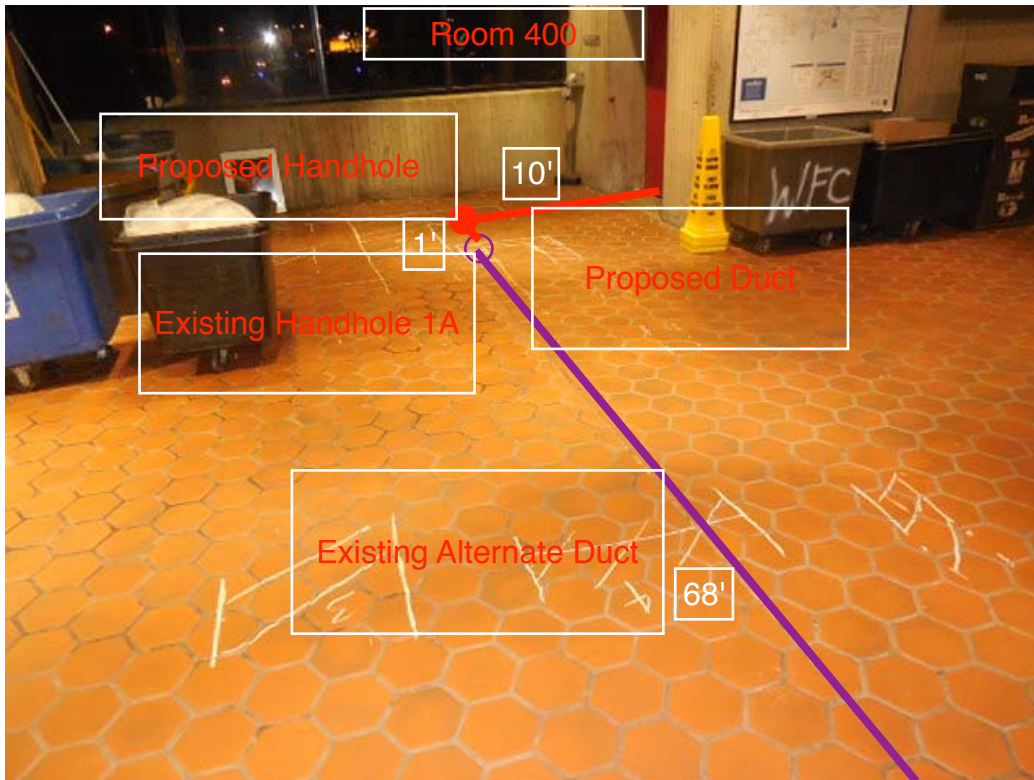


Photo 4 – Existing / Proposed duct layout on mezzanine floor

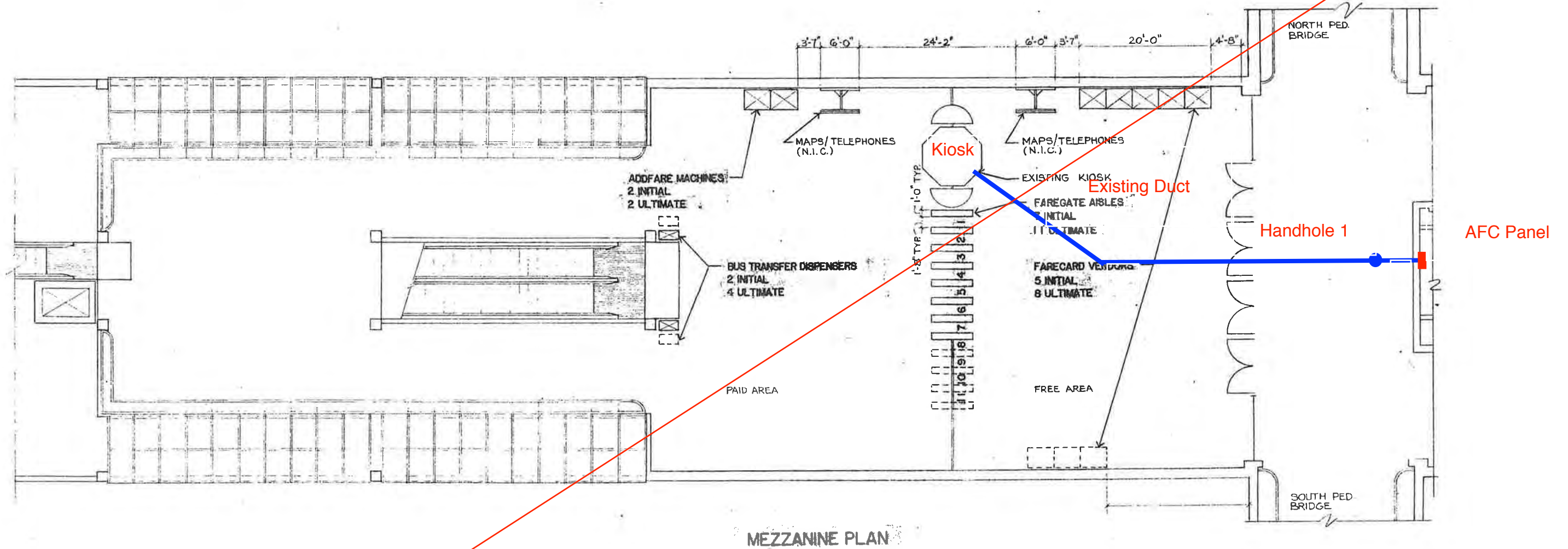


Photo 5 – Proposed Duct / Conduit transition in Room 400

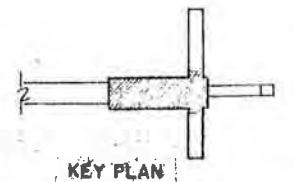


EXISTING DUCT LAYOUT

See new schematic drawing/proposed pathway on last page



MEZZANINE PLAN



DESIGNED	HWA	11-10-82	DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	GBO	11-10-82	DATE			7-11-84	RAB	EMERGENCY EXIT GATE AWAY
CHECKED			DATE					
APPROVED			DATE					

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA
 APPROVED _____
 DIRECTOR OF ARCHITECTURE

DE LEUW, CATHAR & COMPANY
 GENERAL ENGINEERING CONSULTANT
 HARRY WEESE & ASSOCIATES
 GENERAL ARCHITECTURAL CONSULTANT

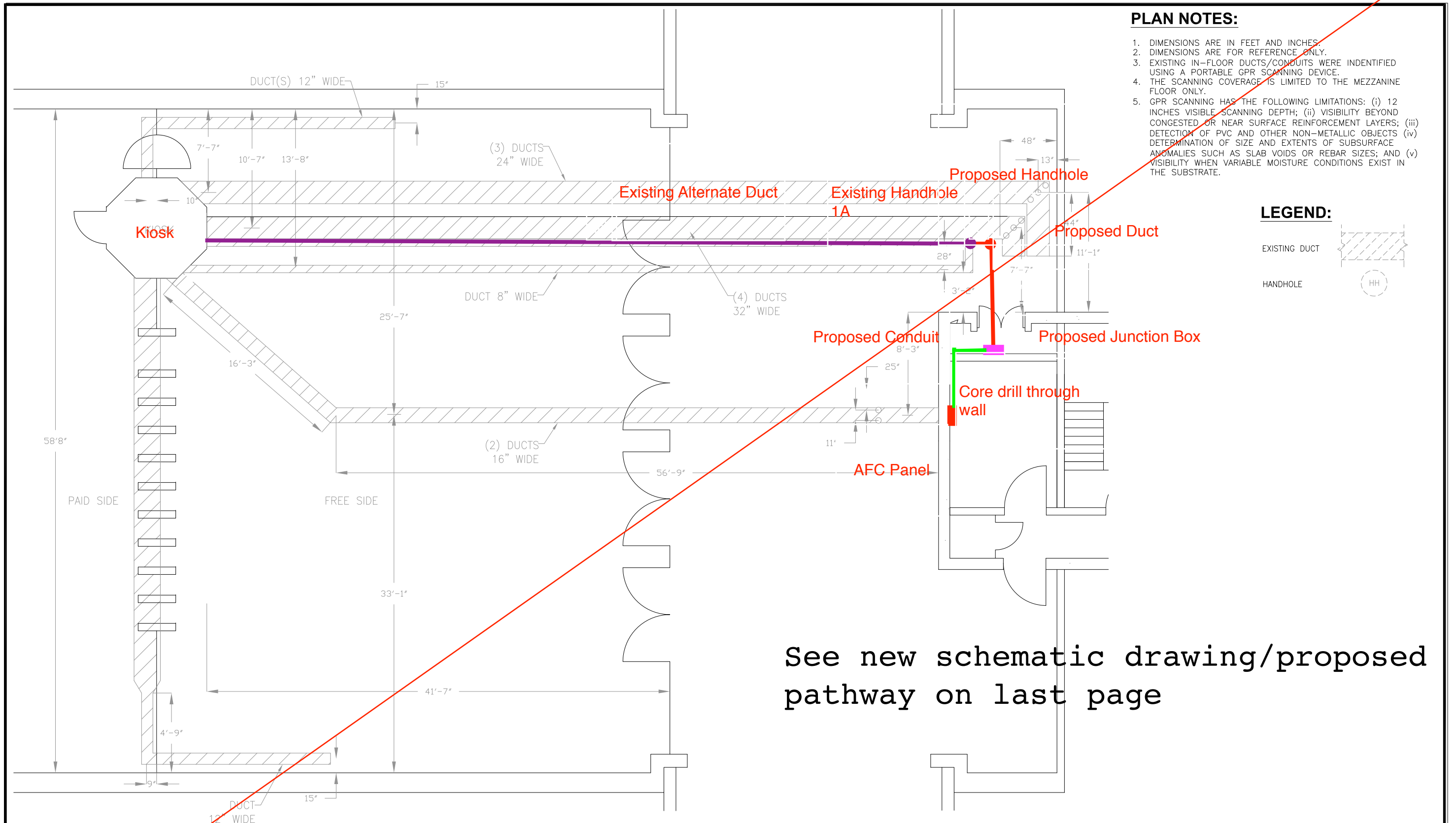
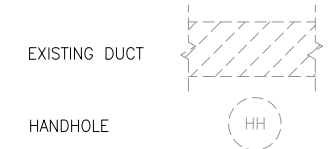
VIENNA STATION
 AFC EQUIPMENT LAYOUT

SCALE: 1" = 4'-0" DRAWING NO. 84-1700

PLAN NOTES:

1. DIMENSIONS ARE IN FEET AND INCHES.
2. DIMENSIONS ARE FOR REFERENCE ONLY.
3. EXISTING IN-FLOOR DUCTS/CONDUITS WERE IDENTIFIED USING A PORTABLE GPR SCANNING DEVICE.
4. THE SCANNING COVERAGE IS LIMITED TO THE MEZZANINE FLOOR ONLY.
5. GPR SCANNING HAS THE FOLLOWING LIMITATIONS: (i) 12 INCHES VISIBLE SCANNING DEPTH; (ii) VISIBILITY BEYOND CONGESTED OR NEAR SURFACE REINFORCEMENT LAYERS; (iii) DETECTION OF PVC AND OTHER NON-METALLIC OBJECTS (iv) DETERMINATION OF SIZE AND EXTENTS OF SUBSURFACE ANOMALIES SUCH AS SLAB VOIDS OR REBAR SIZES; AND (v) VISIBILITY WHEN VARIABLE MOISTURE CONDITIONS EXIST IN THE SUBSTRATE.

LEGEND:



See new schematic drawing/proposed pathway on last page

VIENNA STATION
SCALE: NOT TO SCALE

CONTRACT NO.
XXXXXX

DESIGNED		DATE		REFERENCE DRAWINGS		REVISIONS	
NUMBER	DESCRIPTION	DATE	BY	NUMBER	DESCRIPTION	DATE	BY
C. LOOSE	03-15						
C. LOOSE	03-15						
M. BUTLER	03-15						

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

GFP A Gannett Fleming/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____
PROJECT MANAGER

15-NEPP-01
IN - FLOOR DUCT INSPECTIONS
K08 Vienna
PROPOSED POWER ROUTE

SCALE: NOT TO SCALE

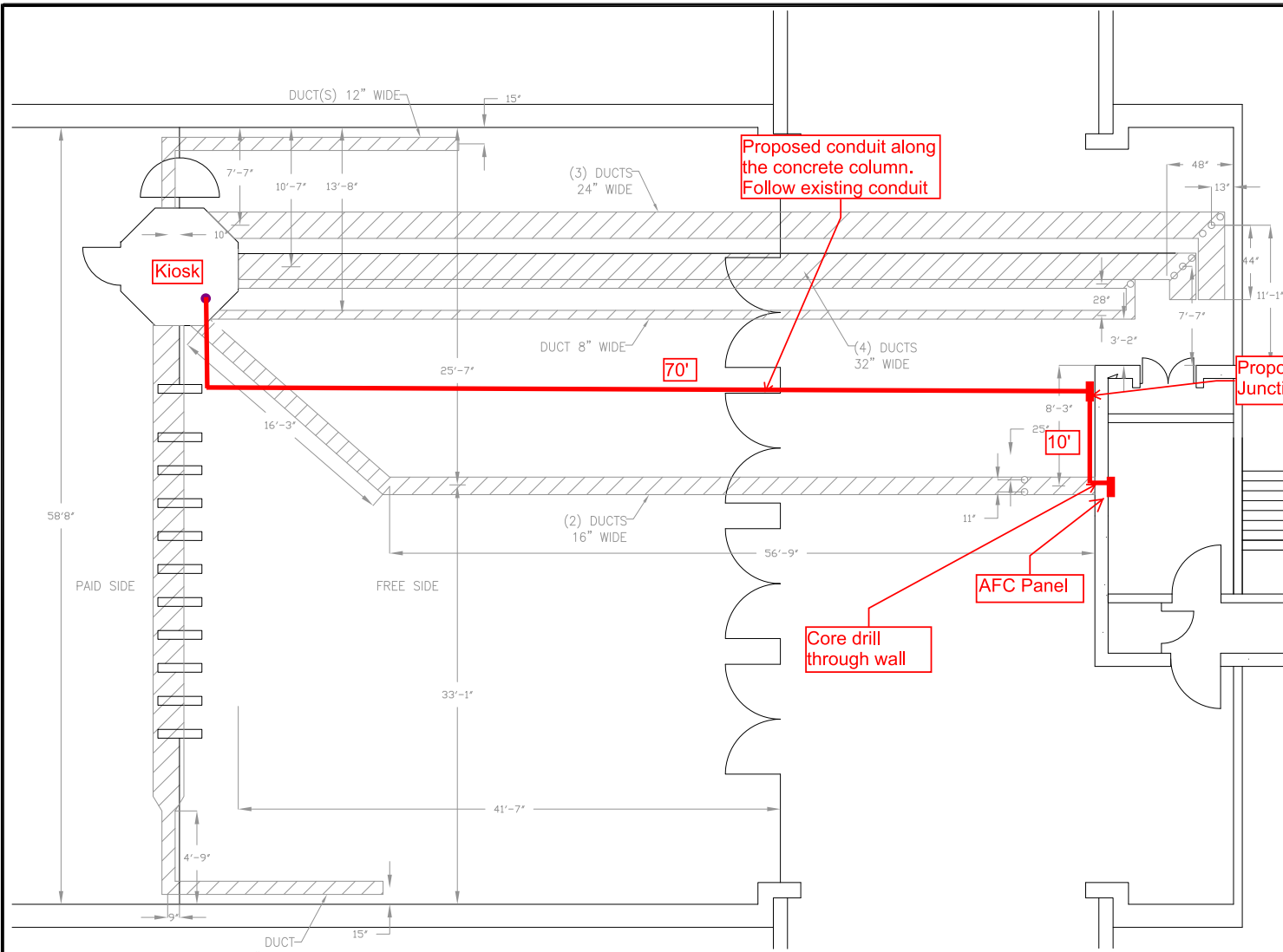
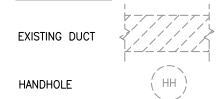
DRAWING NO. **K08-E-100**

XXX

PLAN NOTES:

1. DIMENSIONS ARE IN FEET AND INCHES.
2. DIMENSIONS ARE FOR REFERENCE ONLY.
3. EXISTING IN-FLOOR DUCTS/CONDUITS WERE IDENTIFIED USING A PORTABLE GPR SCANNING DEVICE.
4. THE SCANNING COVERAGE IS LIMITED TO THE MEZZANINE FLOOR ONLY.
5. GPR SCANNING HAS THE FOLLOWING LIMITATIONS: (i) 12 INCHES VISIBLE SCANNING DEPTH; (ii) VISIBILITY BEYOND CONGESTED OR NEAR SURFACE REINFORCEMENT LAYERS; (iii) DETECTION OF PVC AND OTHER NON-METALLIC OBJECTS (iv) DETERMINATION OF SIZE AND EXTENTS OF SUBSURFACE ANOMALIES SUCH AS SLAB VOIDS OR REBAR SIZES; AND (v) VISIBILITY WHEN VARIABLE MOISTURE CONDITIONS EXIST IN THE SUBSTRATE.

LEGEND:



VIENNA STATION
SCALE: NOT TO SCALE

CONTRACT NO. XXXXXX

DESIGNED C. LOOSE 03-15
DATE
DRAWN C. LOOSE 03-15
DATE
CHECKED M. BUTLER 03-15
DATE
APPROVED _____
DATE

REFERENCE DRAWINGS	
NUMBER	DESCRIPTION

REVISIONS			
DATE	BY	DESCRIPTION	

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

GFP JOINT VENTURE
A GANNETT FLEMING PARTNERSHIP

APPROVED _____ SUBMITTED _____
PROJECT MANAGER

15-NEPP-01
IN - FLOOR DUCT INSPECTIONS
K08 Vienna
PROPOSED POWER ROUTE

SCALE: NOT TO SCALE

DRAWING NO. K08-E-100

XXX