

## Mezzanine Inspection Report (Scoping)

<b>Date:</b> 11/14/2014	<b>Station Name:</b> C10 Reagan Airport North	<b>Mezzanine #:</b> 093	<b>Completed By:</b> Chris Loose
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### Summary

Scoping and pull string installation was completed in accordance with the scope of work.

- Video scoping completed for communication and power ducts in Upper and Lower faregate arrays; pull string installed in communication ducts (ducts not at capacity)
- Video scoping and pull string installation completed from Kiosk to handhole and from handhole to AFC Panel (ducts not at capacity)

Scanning is not required at this mezzanine.

### Scoping of Faregate Array(s)

Task	Yes/No	Notes
<b>Communications Duct – Upper Faregate Array (5 Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Reagan North Mezz 93 Upper Comm duct Video (1).avi file.
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	Duct has less than 15 wires
<b>Communications Duct - Lower Faregate Array (4 Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Reagan North Mezz 93 Lower Comm duct Video (1).avi file.
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	Duct has less than 15 wires
<b>Power Duct - Upper Faregate Array (5 Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Reagan North Mezz 93 Upper Power duct Video (1).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	Duct has less than 15 wires
<b>Power Duct - Lower Faregate Array (4 Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Reagan North Mezz 93 Lower Power duct Video (1).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	Duct has less than 15 wires


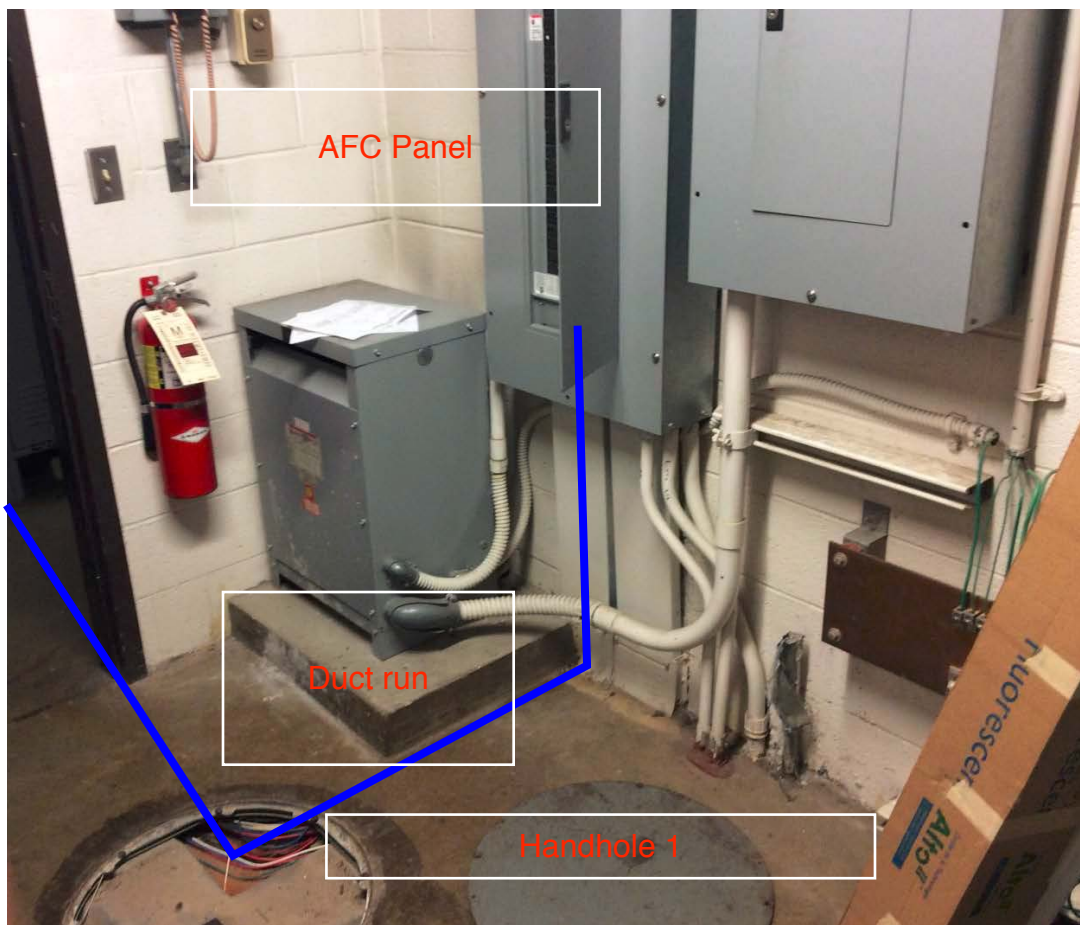
Scoping of Power Duct - Kiosk to AFC Panel		
Task	Yes/No	Notes
<b>Kiosk to Handhole 1 (90' run)</b>		
Was video scoping completed for the entire duct / conduit run?	Yes	Refer to WMATA Reagan North Mezz 93 Power Kiosk to H.H. duct Video (1).avi file.
Was pull string installed?	Yes	
Were there any obstructions 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	Duct has less than 15 wires
<b>Handhole 1 to AFC Panel (10' run)</b>		
Was video scoping completed for the entire duct / conduit run?	No	Duct run to 90 degree bend up to AFC Panel and upon visual inspection, power duct was in good condition.
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	Duct has less than 15 wires
<b>Observations / Issues / Next Steps</b>		
<b>Sign Off</b>		
	<b>GFP Representative</b>	<b>WMATA PRGM</b>
<b>Name:</b>	Mike Butler	
<b>Signature:</b>		
<b>Date:</b>	11/14/2014	

Photo #1 – C10 Reagan Airport North: Mezzanine Kiosk



Photo #2 – C10 Reagan Airport North: Handhole 1 to AFC Panel

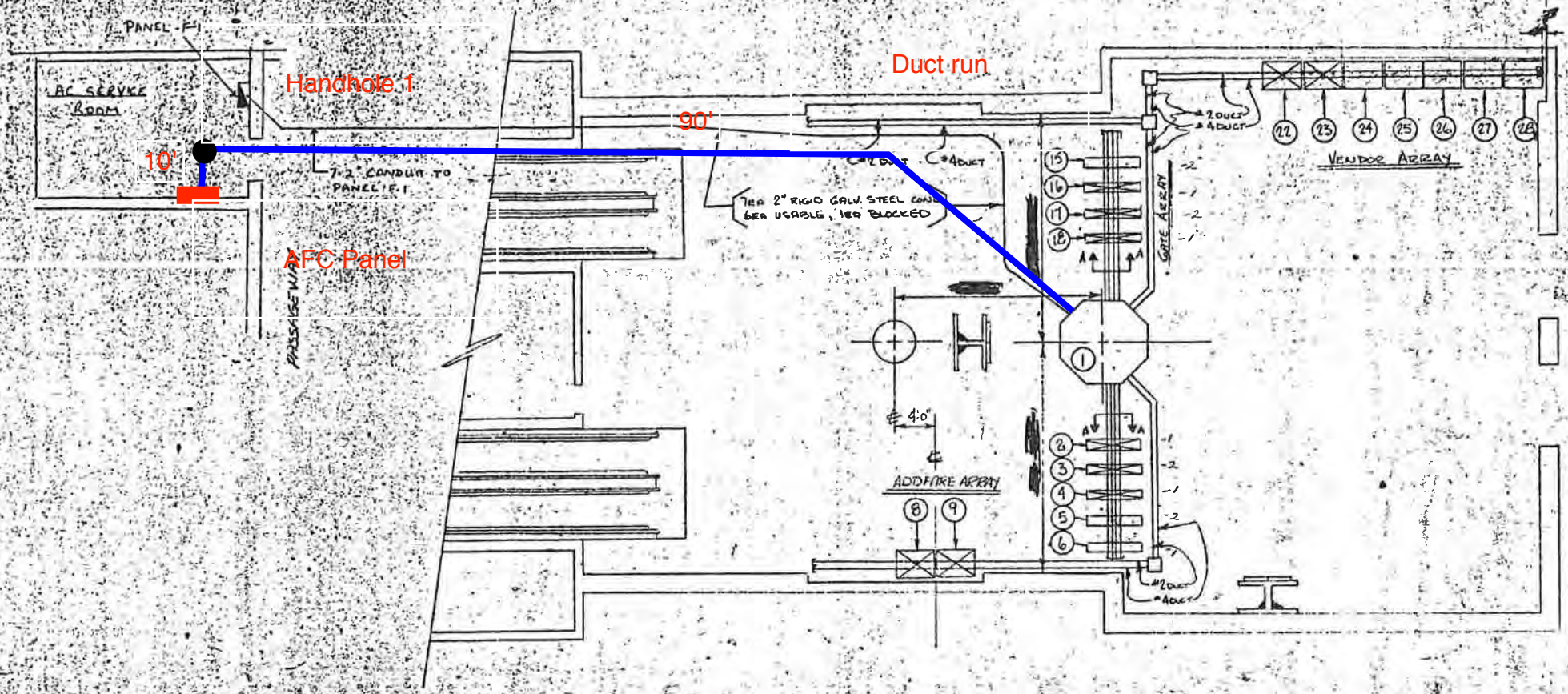
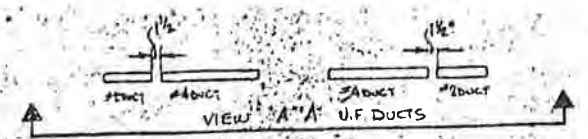




NOTATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY W.M.A.T.A.

QUANTITY IS DEPICTED ON THE DRAWING. PROFESSIONAL ENGINEER'S QUANTITIES ARE NOT TO BE USED FOR BIDDING. INITIAL QUANTITIES WERE GIVEN TO C.W.D. ON 8/15/88. OPERATIONAL MACHINE INVENTORY IS REPRODUCED DRAWING BY THE DRAWER THROUGH THE MACHINE.

BUILT CONTINUATION SEE DRAWING #2 INST. PLAN. REFER TO DRAWINGS SEE SUPPORT DOCUMENT PACKAGES THIS MECHANICAL.



No. 1 INSTALLATION PLAN  
SCALE: 1/8" = 1'-0" U.O.N. 46

6430-0379

CP-27007A-104-2-0  
WASHINGTON METROPOLITAN  
AREA TRANSIT AUTHORITY

**M** WASHINGTON METROPOLITAN  
AREA TRANSIT AUTHORITY  
APPROVED AS CORRECTED  
(RESUBMITTAL REQUIRED)  
Approval Does Not Relieve the Contractor of the Responsibility for the Accuracy of this Drawing or for Full Compliance with the Contract Requirements.  
BY: *Patrick S. Burns*

CONTRACT NUMBER 27007A		CUBIC WESTERN DATA A Subsidiary of Cubic Corporation 1500 15th Street, Suite 100, San Diego, CA 92101	
NATIONAL AIRPORT AFC MACHINES		DRAWING NUMBER	
DESIGN	APPROVAL	SIZE	REV



## Mezzanine Inspection Report (Scoping)

<b>Date:</b> 12/10/2014	<b>Station Name:</b> C12 – Braddock Road	<b>Mezzanine #:</b> 047	<b>Completed By:</b> Chris Loose
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### Summary

Video scoping and pull string installation successfully completed in communications ducts in the upper and lower faregate arrays. Video scoping was also successfully completed in the power ducts for the upper and lower faregate arrays. Video scoping was not completed in the power duct run from the kiosk to the AFC panel due to collapsed ducts. The duct was collapsed just inside the kiosk towards handhole 1 and duct was collapsed just inside handhole 1 towards the AFC panel.

Scanning was completed at this mezzanine. The proposed power run between the kiosk and AFC panel includes both duct and conduit. A proposed duct will run parallel to the existing duct from the kiosk to the back hallway. The proposed duct will need to go through the existing wall as the existing duct precludes going through the doorway. A proposed handhole will be placed on the mezzanine floor in front of the wall to allow access to the proposed 90 degree bend in the back hallway. The proposed duct will also need to avoid impact to the existing drain on the mezzanine floor (refer to scanning sketch for details). In the back hallway the proposed duct will have a 90 degree bend up into a proposed junction box. At the junction box, the proposed run will transition to conduit. The conduit will run up and around the door, and then run parallel to the existing conduits down the back hallway. At Room #C111 the conduit will core drill through the wall and into Room #C111. The conduit will run along the wall and enter the AFC panel from the top.

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
<b>Communications Duct – Upper Faregate Array (2-Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Braddock Road 3inch Upper Comm Faregate Video.avi file.
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 less than 15 wires
<b>Communications Duct - Lower Faregate Array (2-Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Braddock Road Lower Comm Faregate Video.avi file.
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 less than 15 wires
<b>Power Duct - Upper Faregate Array (2-Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Braddock Road 6inch Upper Power Faregate 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
<b>Power Duct - Lower Faregate Array (2-Gates)</b>		
Was video scoping completed for the entire duct run?	Yes	Refer to WMATA Braddock Road 6inch Lower Power Faregate 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
<b>Kiosk to Handhole 1 (95' run)</b>		
Was video scoping completed for the entire duct / conduit run?	No	Refer to WMATA Braddock Road 6inch Left Power Feed Video.avi and WMATA Braddock Road 6inch Right Power Feed Video.avi files.
Was pull string installed?	No	
Were there any obstructions or blockages? Provide details of type and specific location.	Yes	Duct was collapsed just inside kiosk and heavily rusted in parts that could be seen
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	6" duct less than 15 wires
<b>Handhole 1 to AFC Panel (15' run)</b>		
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.	Yes	Duct was collapsed less than 2' inside handhole and heavily rusted around the duct entrance at handhole 1
Is the duct / conduit at capacity? Provide additional details about the dimensions of duct / conduit and number of wires.	No	
<b>Observations / Issues / Next Steps</b>		
Total length of existing power run from kiosk to AFC panel is approximately 110'		
Proposed power run from kiosk to AFC panel is approximately 48' of duct and 74' of conduit for a total length of 122'		
<b>Sign Off</b>		
	<b>GFP Representative</b>	<b>WMATA PRGM</b>
<b>Name:</b>	Zach Fitzwater	
<b>Signature:</b>		
<b>Date:</b>	01/13/2015	

Photo #1 – C12 Braddock Road: Duct runs from kiosk towards backroom corridor.

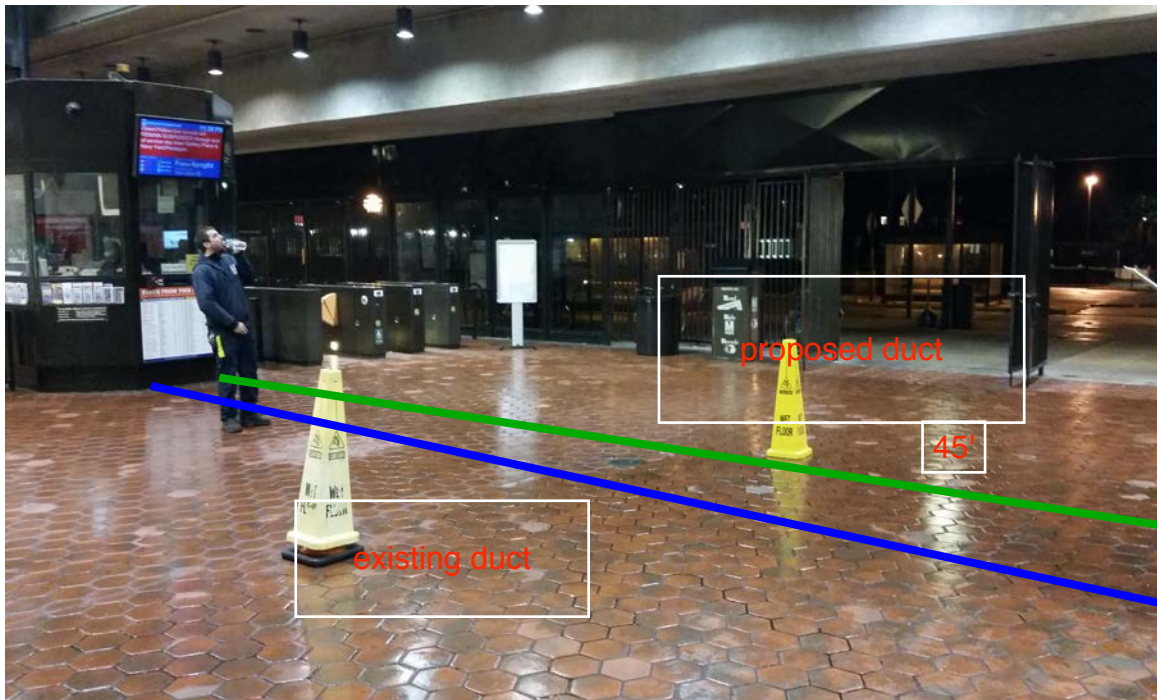


Photo #2 – C12 Braddock Road: Existing duct run towards backroom corridor and proposed duct to proposed handhole.

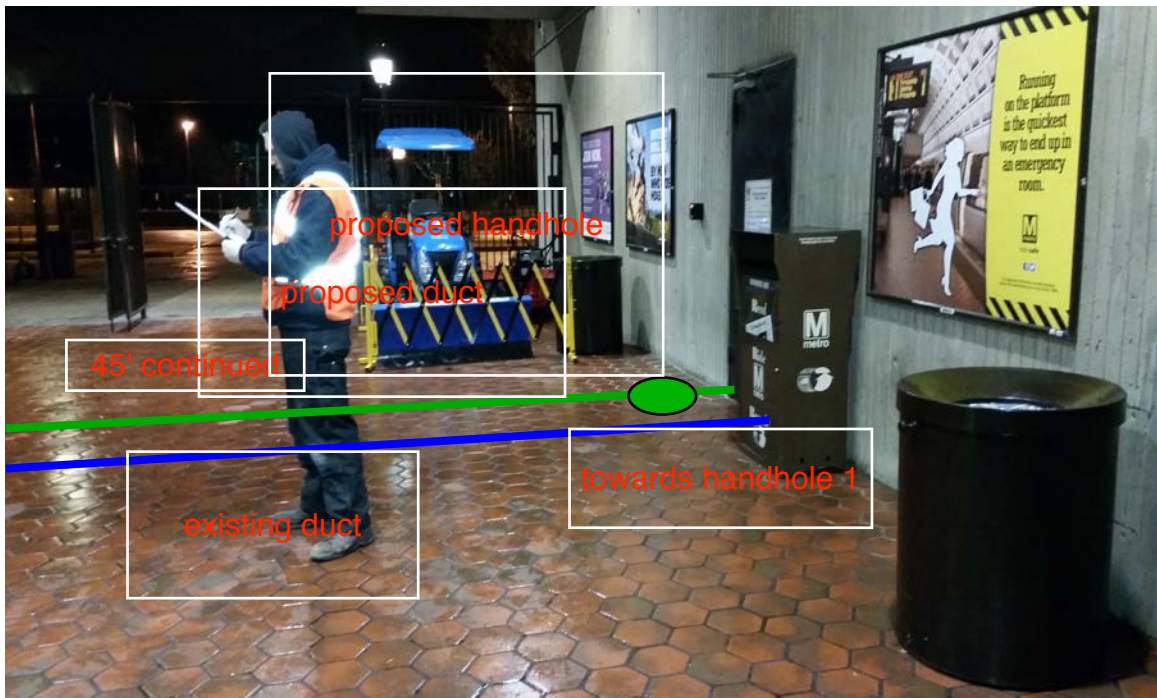




Photo #3 – C12 Braddock Road: Existing duct run from kiosk towards existing handhole 1 and proposed conduit from proposed handhole on mezzanine floor towards AFC panel.

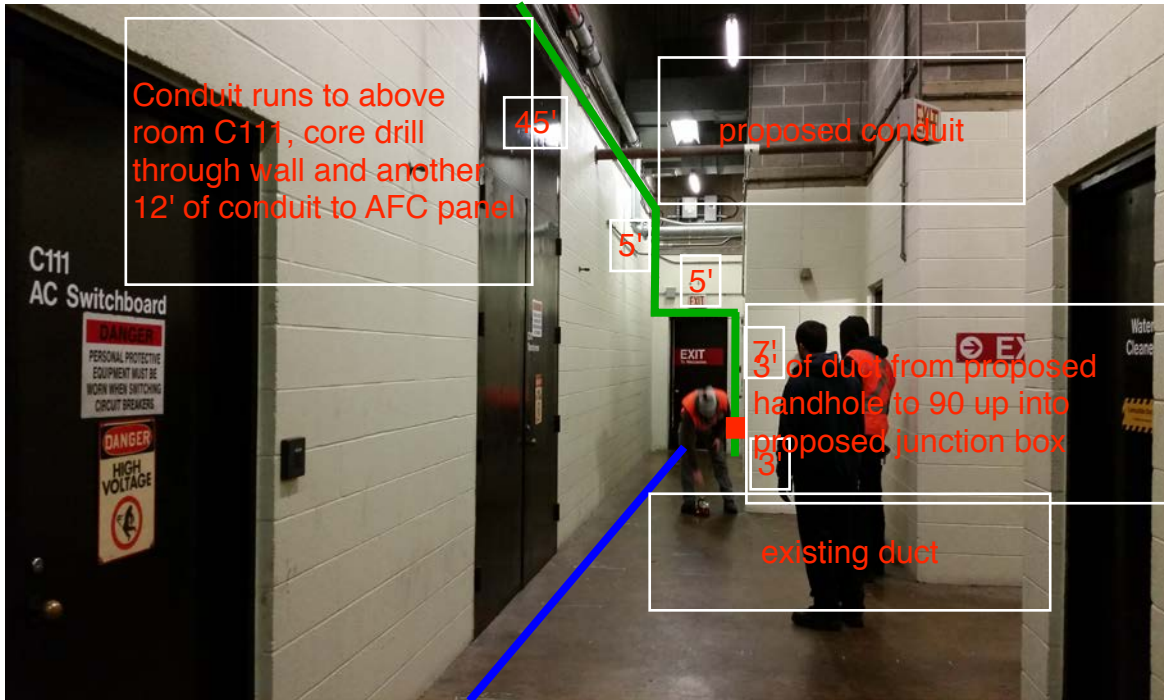


Photo #4 – C12 Braddock Road: Existing duct from kiosk to existing handhole 1.

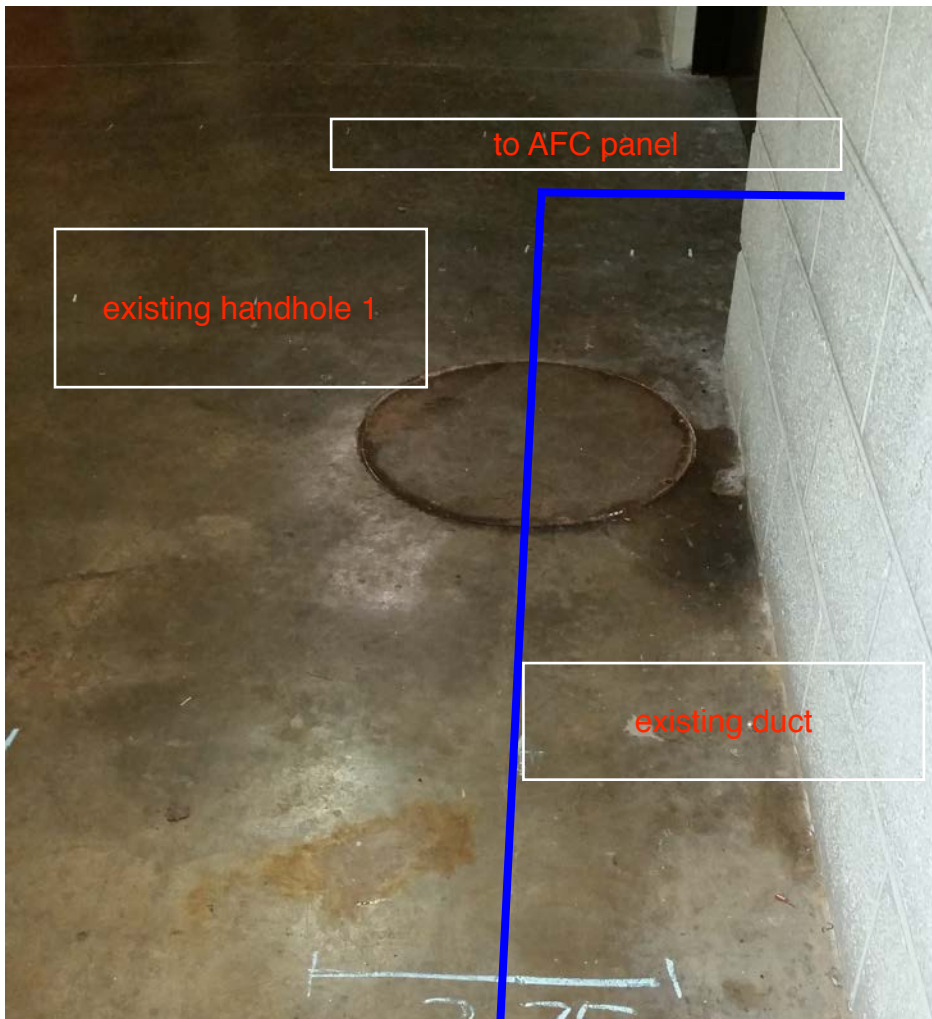
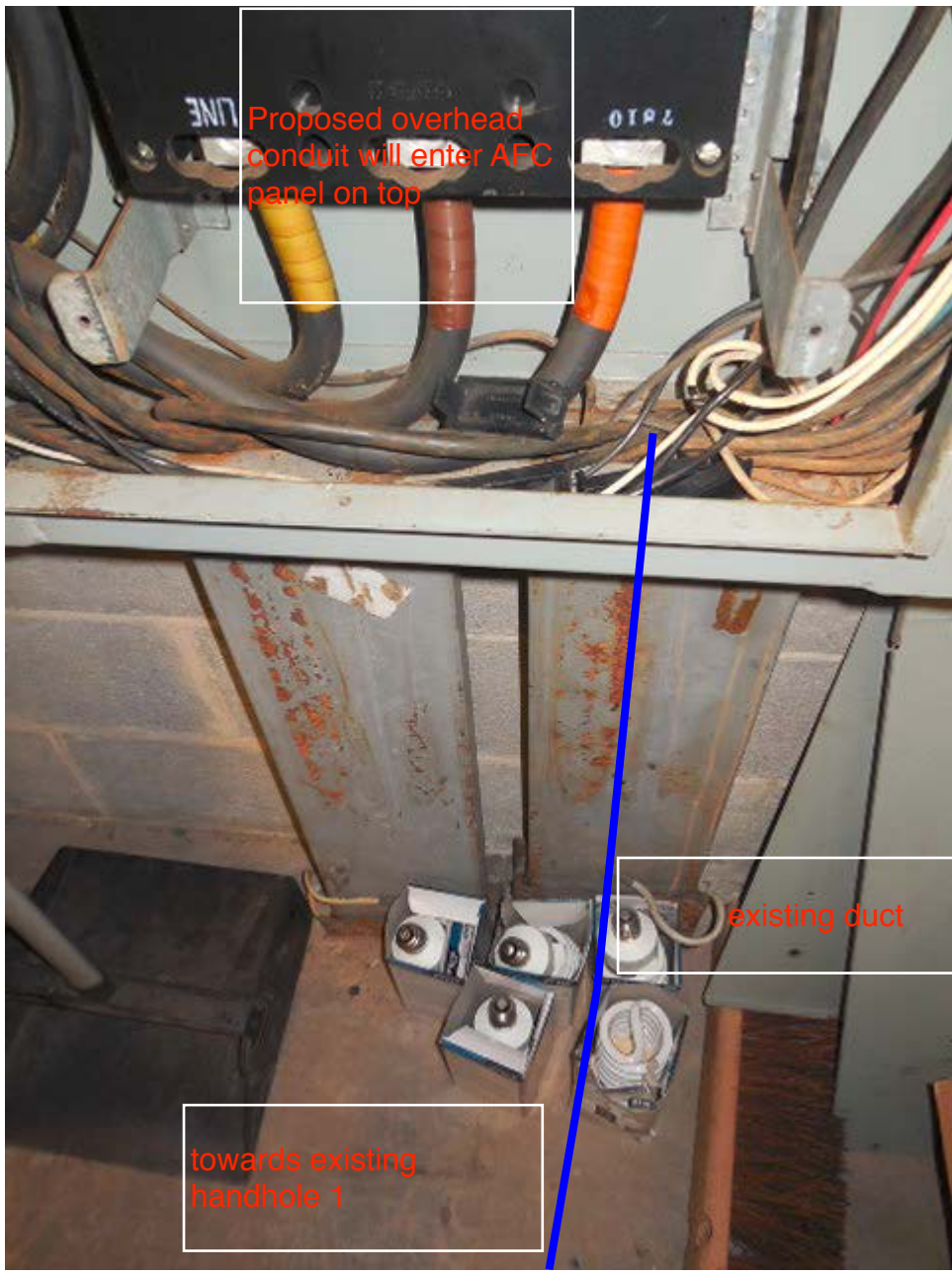


Photo #5 – C12 Braddock Road: Existing duct to AFC panel in Room #C111.



Proposed overhead conduit will enter AFC panel on top

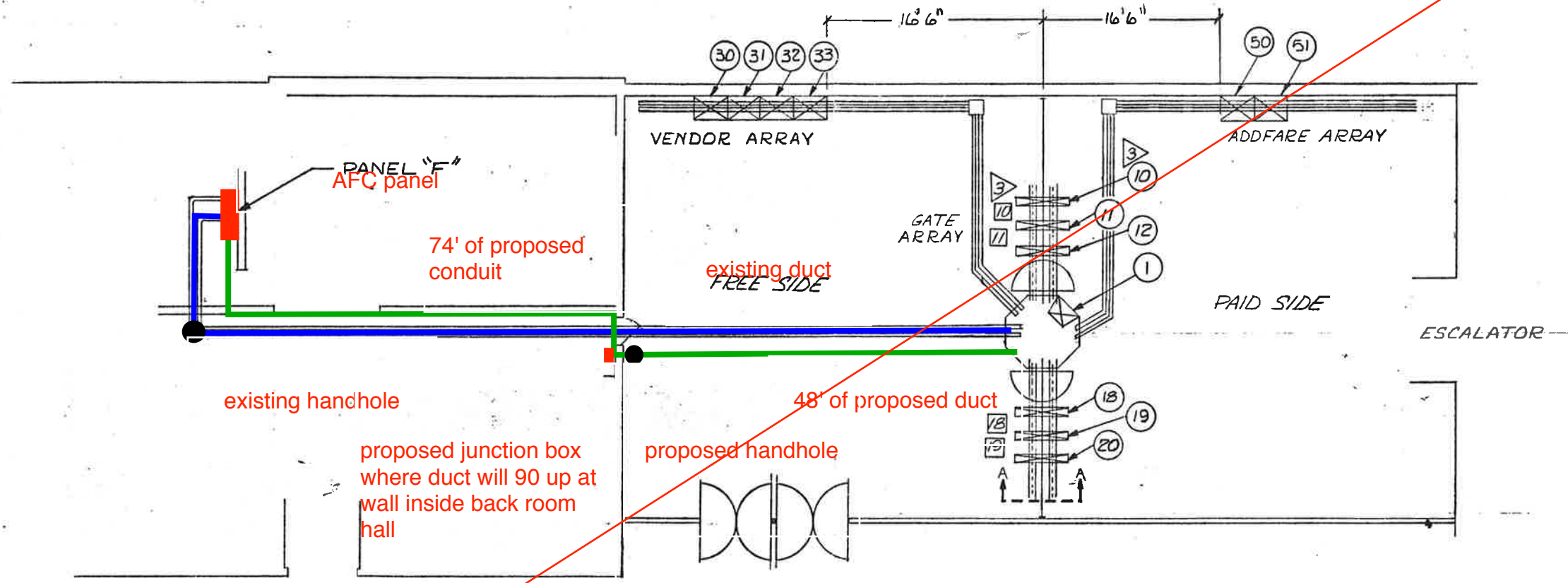
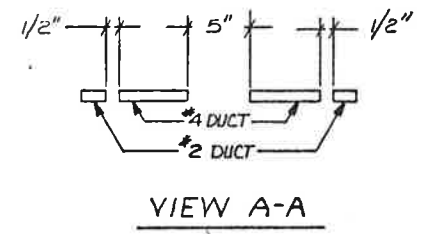
existing duct

towards existing handhole 1



**NOTES**

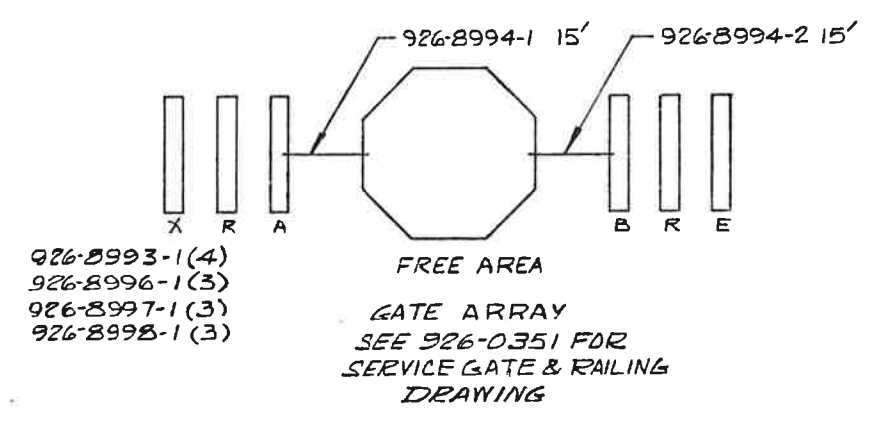
1. THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE "X" DRAWN THROUGH THE MACHINE.
  2. FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.
- ⊗ (X) INDICATES POSITION NO. [X] INDICATES AISLE NO.



PANEL F					
POSITION NO.	MACHINE TYPE	SERIAL NO.	CIRCUIT BREAKER NO.	BREAKER SIZE (AMPS)	WIRE SIZE (AWG)
1	DADS	DS 8070	KIOSK	20	
10	EXIT GATE	GX 4074	7	20	99
11	REV GATE	GR 7263	9	20	6
12	A GATE	GA 5048	11	20	6
18	B GATE	GB 6055	8	20	6
19	REV GATE	GR 7255	10	20	6
20	ENTRYGATE	GN 3073	12	20	6
30	VENDOR	FV 1315	20	20	8
31	VENDOR	FV 1328	18	20	8
32	VENDOR	FV 1338	16	20	8
33	VENDOR	FV 1327	14	20	8
50	ADD FARE	AM 2132	24	20	8
51	ADDFARE	AM 2125	22	20	8

See new schematic drawing/proposed pathway on last page

- 1 INSTALLATION PLAN



DO NOT SCALE DRAWING UNLESS OTHERWISE SPECIFIED BREAK SHARP EDGES .010 MAX TOLERANCES ON ANGLES: ± 0.5 DEG. HOLES .0135 THRU .125: +.004 - .001 .251 THRU .500: +.006 - .001 .128 THRU .250: +.005 - .001 .501 THRU .750: +.008 - .001 .751 THRU 1.000: +.010 - .001

CUBIC WESTERN DATA  
A Subsidiary of Cubic Corporation  
1650 N. FERRY MESA ROAD - POST OFFICE BOX 80731 - SAN DIEGO, CA 92118

INSTALLATION PLAN  
BRADDOCK FERRY STATION

CODE IDENT NO. 94987

DRAWN: J. L. HENRIQUEZ 2/19/97  
CHECK: J. L. HENRIQUEZ 2/19/97  
DESIGN: J. L. HENRIQUEZ 2/19/97  
ENGINEER: J. L. HENRIQUEZ 2/19/97  
APPROVAL: J. L. HENRIQUEZ 2/19/97

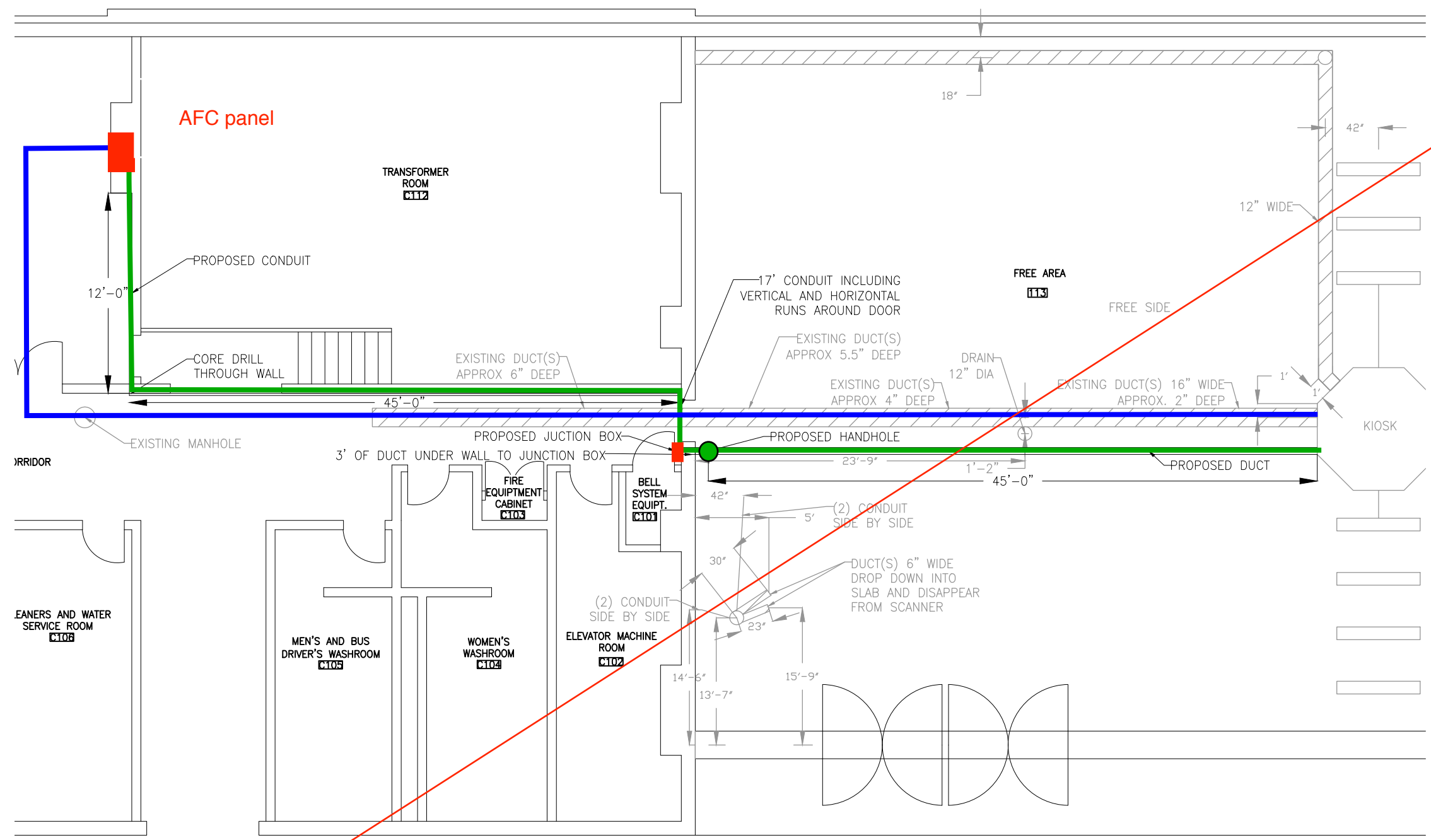
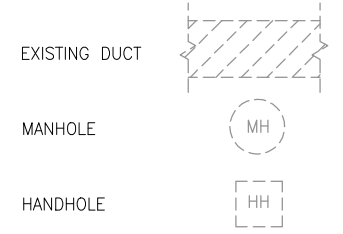
926-0420

See new schematic drawing/proposed pathway on last page

**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:**



**BRADDOCK ROAD STATION**  
SCALE: NOT TO SCALE

CONTRACT NO.  
XXXXXX

DESIGNED	C. LOOSE	02-15
DRAWN	C. LOOSE	02-15
CHECKED	M. BUTLER	02-15
APPROVED		

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  
APPROVED \_\_\_\_\_

**GFP** A Gannett Fleming/Parsons JOINT VENTURE  
SUBMITTED \_\_\_\_\_  
PROJECT MANAGER

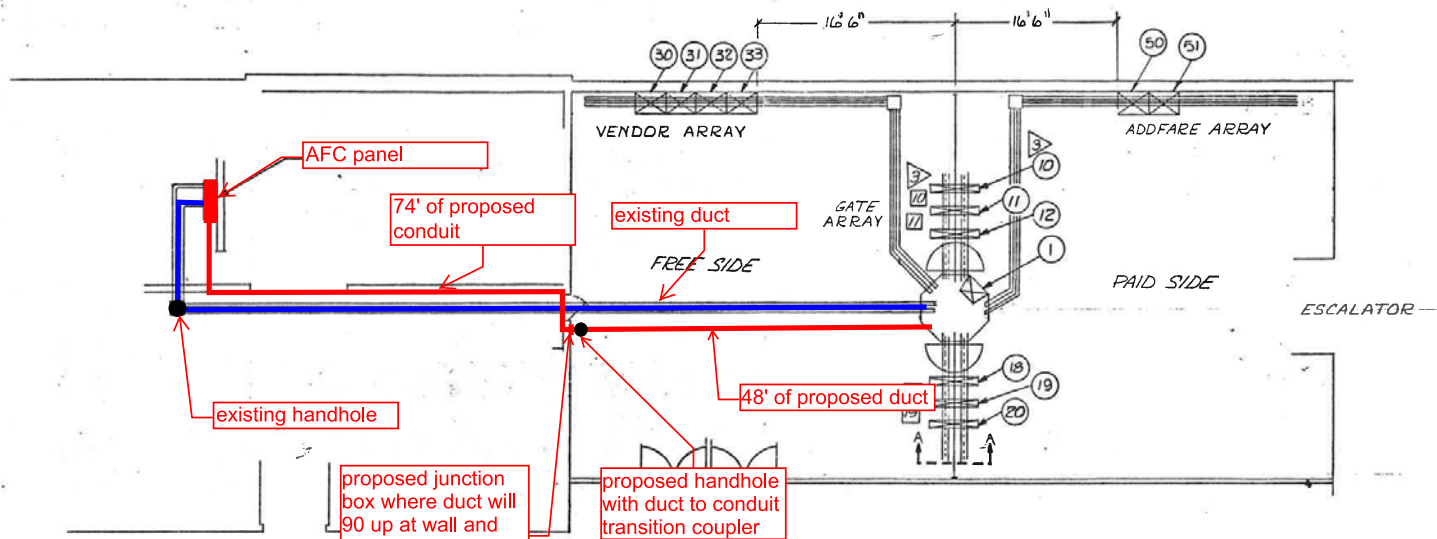
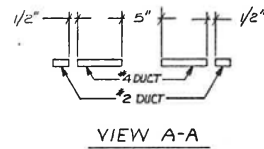
15-NEPP-01  
IN - FLOOR DUCT INSPECTIONS  
C12 Braddock Road  
PROPOSED POWER DUCT/CONDUIT RUN  
SCALE NOT TO SCALE  
DRAWING NO. C12-E-100  
XXX



NOTES

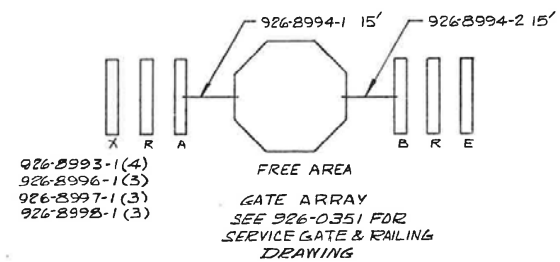
1. THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE "X" DRAWN THROUGH THE MACHINE.
2. FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.

▷ (X) INDICATES POSITION NO. [X] INDICATES AISLE NO.



PANEL F					
POSITION NO.	MACHINE TYPE	SERIAL NO.	CIRCUIT BREAKER NO.	BREAKER SIZE (AMPS)	WIRE SIZE (AWG)
1	DADS	DS 8070	KIOSK	20	
10	EXIT GATE	GX 4074	7	20	6
11	REV GATE	GR 7263	9	20	6
12	A GATE	GA 5048	11	20	6
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31	VENDOR	FV 1328	18	20	8
32	VENDOR	FV 1338	16	20	8
33	VENDOR	FV 1327	14	20	8
50	ADD FARE	AM 2132	24	20	8
51	ADDFARE	AM 2125	22	20	8

- 1 INSTALLATION PLAN



FREE AREA  
GATE ARRAY  
SEE 926-0351 FOR  
SERVICE GATE & RAILING  
DRAWING

DO NOT SCALE DRAWING  
UNLESS OTHERWISE SPECIFIED  
DIMENSIONS ARE IN INCHES  
DIMENSIONS ARE IN INCHES  
BREAK SYMBOL EDDIES AND MAX  
DECIMALS: 1:1.00 1:1.20  
NOTES: UNLESS S.A. B.G.  
0015 THRU 315: 404 - 001 251 THRU 350: 406 - 001  
126 THRU 255: 405 - 001 201 THRU 250: 409 - 000 - 001  
131 THRU 150: 400 - 001

CONTRACT NUMBER  
SHEET 1 OF 1  
DRAWING NUMBER  
926-0420  
TITLE  
INSTALLATION PLAN  
BADDACK ROAD STATION  
CUBIC WESTERN DATA  
A Subsidiary of Cubic Corporation  
Head Office: 11550 Highway 101, Unit 101, Burnaby, B.C. V5A 4G9  
CODE IDENT NO. 94987  
DRAWN: J. LEONARD  
CHECKED: J. LEONARD  
DATE: 1/2/97  
ENGINEER: J. LEONARD  
DATE: 1/2/97