


Pre-Inspection Mezzanine Walkthrough Checklist

Date: 12/11/2014	Station Name: Federal Triangle - D01	Mezzanine #: 053	Completed By: Tino Sahoo	
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: ESS MDP Source Breaker Name/Number: Breaker #3 Electrical AFC Panel Name/Number: WF	Rm 205 Rm C206	
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: "Trans for Panel's WF and WM2" SMNT/POWR escorts: LOW Voltage	Rm C206	
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. NO		
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		Manholes located in between both faregate arrays.
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? NO Identified Conduit/Duct Transition to mezzanine level? YES		All conduit/ducts on one level.
Emergency Power Verification				
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: WE2 Source Breaker Name/Number: Breaker #22,24 Panel Name/Number: Kiosk Emergency Panel	Rm C206 Rm C206 Kiosk	
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	12/11/2014			

Picture 1: D01 Federal Triangle – No handholes in entrance passageway



Pictures 2-4: D01 Federal Triangle – Manholes in between both faregate arrays



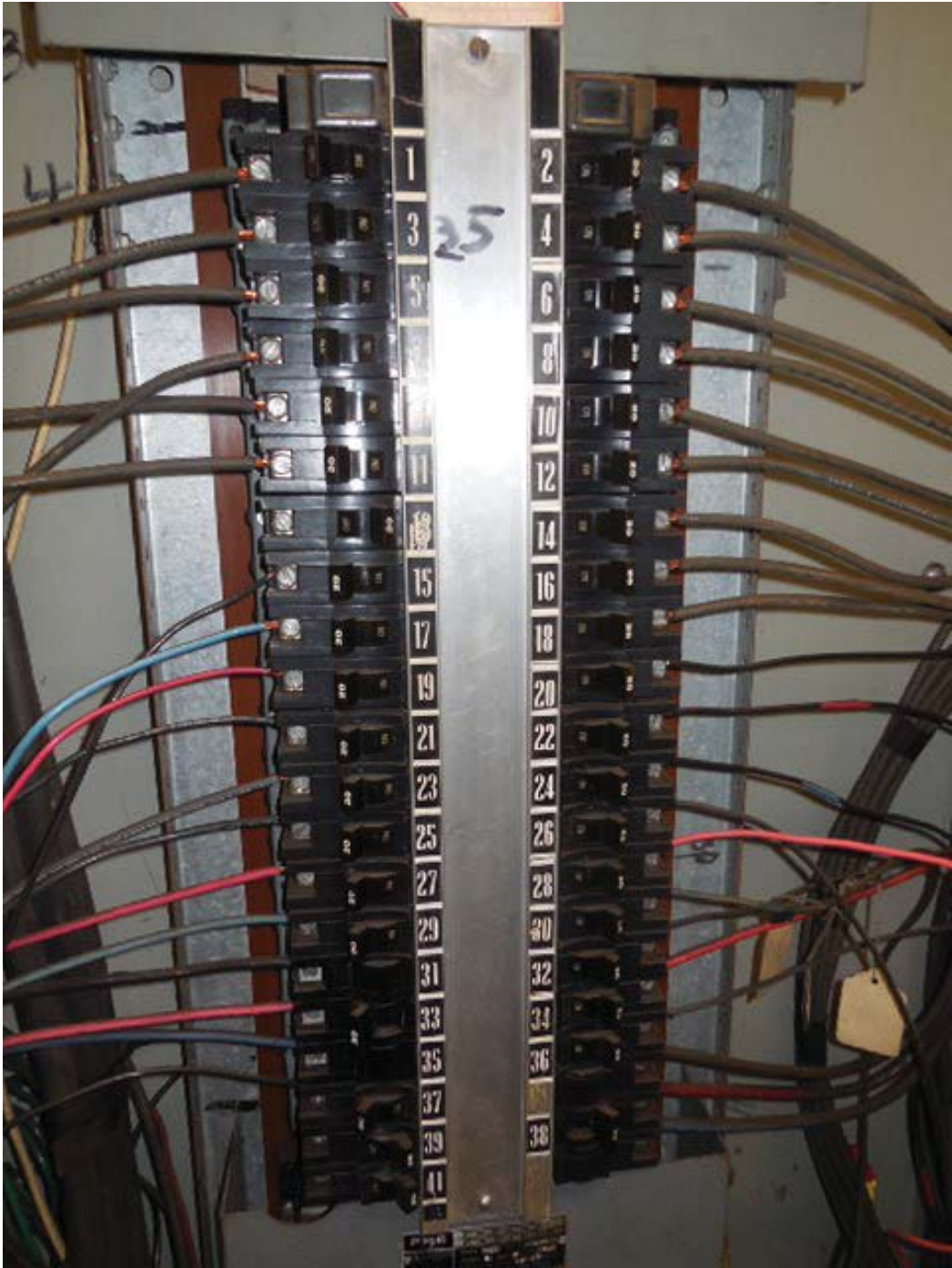
Pictures 5&6: D01 Federal Triangle – Emergency panel in Kiosk



Picture 7: D01 Federal Triangle – AFC Panel WF in room C206



Picture 8: D01 Federal Triangle – AFC Panel WF in room C206



Picture 9: D01 Federal Triangle – AFC Panel WF in room C206 – Bottom ducts and conduit



Picture 10: D01 Federal Triangle – AFC Panel WF in room C206 – Panel schedule

MANUAL WF # 03

114

PANEL BOARD VOLT 480

OR.	LOAD DESCRIPTION	DESCRIPTION
1	PHASE 1	3 EXPLORE # 16
2	PHASE 2	3 EXPLORE # 16
3	PHASE 3	3 EXPLORE # 16
4	PHASE 4	3 EXPLORE # 16
5	PHASE 5	3 EXPLORE # 16
6	PHASE 6	3 EXPLORE # 16
7	PHASE 7	3 EXPLORE # 16
8	PHASE 8	3 EXPLORE # 16
9	PHASE 9	3 EXPLORE # 16
10	PHASE 10	3 EXPLORE # 16
11	PHASE 11	3 EXPLORE # 16
12	PHASE 12	3 EXPLORE # 16
13	PHASE 13	3 EXPLORE # 16
14	PHASE 14	3 EXPLORE # 16
15	PHASE 15	3 EXPLORE # 16
16	PHASE 16	3 EXPLORE # 16
17	PHASE 17	3 EXPLORE # 16
18	PHASE 18	3 EXPLORE # 16
19	PHASE 19	3 EXPLORE # 16
20	PHASE 20	3 EXPLORE # 16
21	PHASE 21	3 EXPLORE # 16
22	PHASE 22	3 EXPLORE # 16
23	PHASE 23	3 EXPLORE # 16
24	PHASE 24	3 EXPLORE # 16
25	PHASE 25	3 EXPLORE # 16
26	PHASE 26	3 EXPLORE # 16
27	PHASE 27	3 EXPLORE # 16
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47	PHASE 47	3 EXPLORE # 16
48	PHASE 48	3 EXPLORE # 16
49	PHASE 49	3 EXPLORE # 16
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51	PHASE 51	3 EXPLORE # 16
52	PHASE 52	3 EXPLORE # 16
53	PHASE 53	3 EXPLORE # 16
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56	PHASE 56	3 EXPLORE # 16
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62	PHASE 62	3 EXPLORE # 16
63	PHASE 63	3 EXPLORE # 16
64	PHASE 64	3 EXPLORE # 16
65	PHASE 65	3 EXPLORE # 16
66	PHASE 66	3 EXPLORE # 16
67	PHASE 67	3 EXPLORE # 16
68	PHASE 68	3 EXPLORE # 16
69	PHASE 69	3 EXPLORE # 16
70	PHASE 70	3 EXPLORE # 16
71	PHASE 71	3 EXPLORE # 16
72	PHASE 72	3 EXPLORE # 16
73	PHASE 73	3 EXPLORE # 16
74	PHASE 74	3 EXPLORE # 16
75	PHASE 75	3 EXPLORE # 16
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77	PHASE 77	3 EXPLORE # 16
78	PHASE 78	3 EXPLORE # 16
79	PHASE 79	3 EXPLORE # 16
80	PHASE 80	3 EXPLORE # 16
81	PHASE 81	3 EXPLORE # 16
82	PHASE 82	3 EXPLORE # 16
83	PHASE 83	3 EXPLORE # 16
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85	PHASE 85	3 EXPLORE # 16
86	PHASE 86	3 EXPLORE # 16
87	PHASE 87	3 EXPLORE # 16
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91	PHASE 91	3 EXPLORE # 16
92	PHASE 92	3 EXPLORE # 16
93	PHASE 93	3 EXPLORE # 16
94	PHASE 94	3 EXPLORE # 16
95	PHASE 95	3 EXPLORE # 16
96	PHASE 96	3 EXPLORE # 16
97	PHASE 97	3 EXPLORE # 16
98	PHASE 98	3 EXPLORE # 16
99	PHASE 99	3 EXPLORE # 16
100	PHASE 100	3 EXPLORE # 16

GENERAL PANEL ELECTRICAL 3401-1280

Picture 11: D01 Federal Triangle –Panel WM2 in room C206



Picture 12: D01 Federal Triangle – Panel WM2 in room C206 – Panel schedule

✓ 3. No. will be completed 8/21/16

PANEL BOARD: WM-2 208/120

FED FROM:

OR.	LOAD DESCRIPTION
1	W. Entrance Lights
2	W. Entrance Lights Reagan Ent
3	W. Entrance Lights
4	W. Entrance Lights Reagan Ent
5	W. Entrance Lights
6	W. Entrance Lights Reagan Ent
7	W. Entrance Lights
8	Fare Vending Area
9	W. Entrance Lights
10	Fare Vending Area
11	W. Entrance Lights
12	Fare Vending Area
13	✓ Spare
14	Fare Vending Area
15	Passageway Lts
16	Fare Vending Area
17	Passageway Lts
18	Fare Vending Area
19	✓ Future Entrance
20	Lights below Mezzanine
21	✓ Future Entrance
22	Lights below Mezzanine
23	✓ Future Entrance
24	Future Entrance Lts Below Mezz
25	Machine Rm Light (Gall)
26	✓
27	Receptacle Mach. Rm. (Gall)
28	✓ Spare
29	✓ Spare
30	✓ Spare
31	✓ Spare
32	✓ Spare
33	✓ Spare
34	
35	✓ Spare
36	
37	

Picture 13: D01 Federal Triangle – Transformer for Panels WF and WM2 in room C206



Picture 14: D01 Federal Triangle – Panel WE2 in room C206



Picture 15: D01 Federal Triangle – Panel WE2 in room C206



Picture 16: D01 Federal Triangle – Panel WE2 in room C206 – Panel schedule

PANELBOARD: WE 2 120/208V

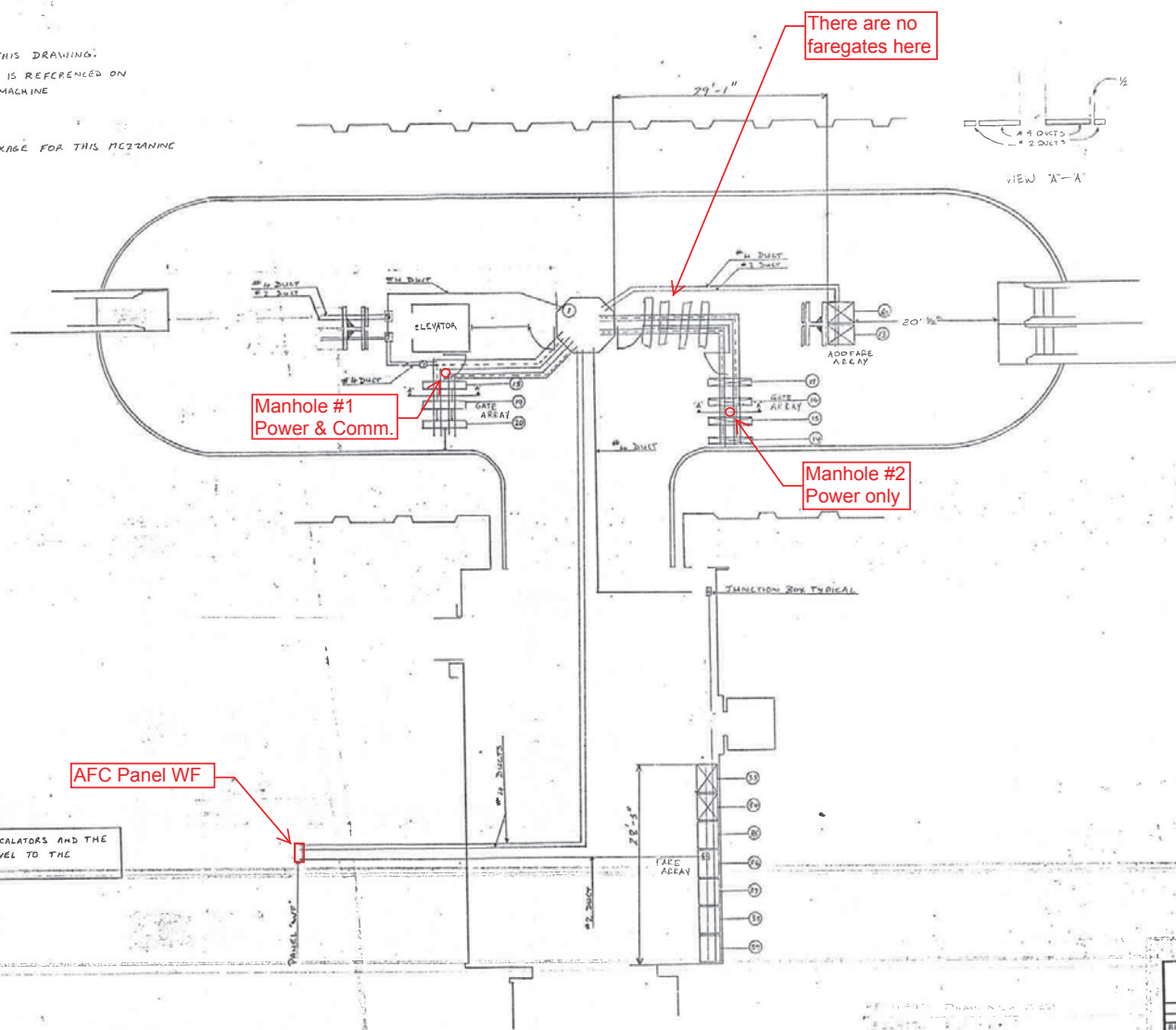
FED FROM:	
CIR.	LOAD DESCRIPTION
1	Faye vending
2	Future E. Entrance VERIZON EQUIP Cabinet BOX
3	Passageway
4	Future E. Entrance
5	W. Entrance Area
6	Below Mezzanine
7	Passageway Escalator
8	Entrance Escalator
9	Passageway Escalator BRAKES
10	Entrance Escalator BRAKES
11	Passageway Escalator
12	Escalator Controls (GOLF SWITCH)
13	Spare EM. LIGHT WEST MECH RM
14	Car & Hoistway Power 2 PIT LTS.
15	Spare CCTV SYSTEM (W.M.R)
16	Future Escalator #2 CAR LITES
17	Spare CAR LIGHTS ELEV #3
18	Spare CAR LIGHTS ELEV #1
19	Spare
20	Spare CAR #2 LTS.
21	Spare
22	Kiosk Panel
23	Spare
24	Kiosk Panel
25	
26	

NOTES:

- 1. ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY THE DATA.
- 2. THE MACHINE INVENTORY IS DEPICTED ON THIS DRAWING.
- 3. MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE 'X' DRAWN THRU THE MACHINE.
- 4. AS BUILT CONDITIONS SEE SHEET 2.
- 5. REF DWG'S SEE SUPPORT DOCUMENT PACKAGE FOR THIS DRAWING.

REVISIONS		
DESCRIPTION	DATE	APVD
AS BUILT DRAWING REVISION A	7-13-77	CS

Pre-Inspection Field Verification 12/11/2014



Refer to MIR and Scanning Reports for exist. power duct run to AFC Panel from Kiosk.

PRIORITY REQUESTS ARE HEREBY GIVEN FOR ESCALATORS AND THE ELEVATOR THAT RUNS FROM THE STREET LEVEL TO THE MEZZANINE.

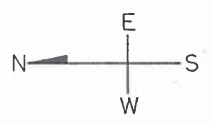
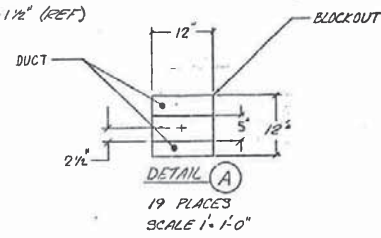
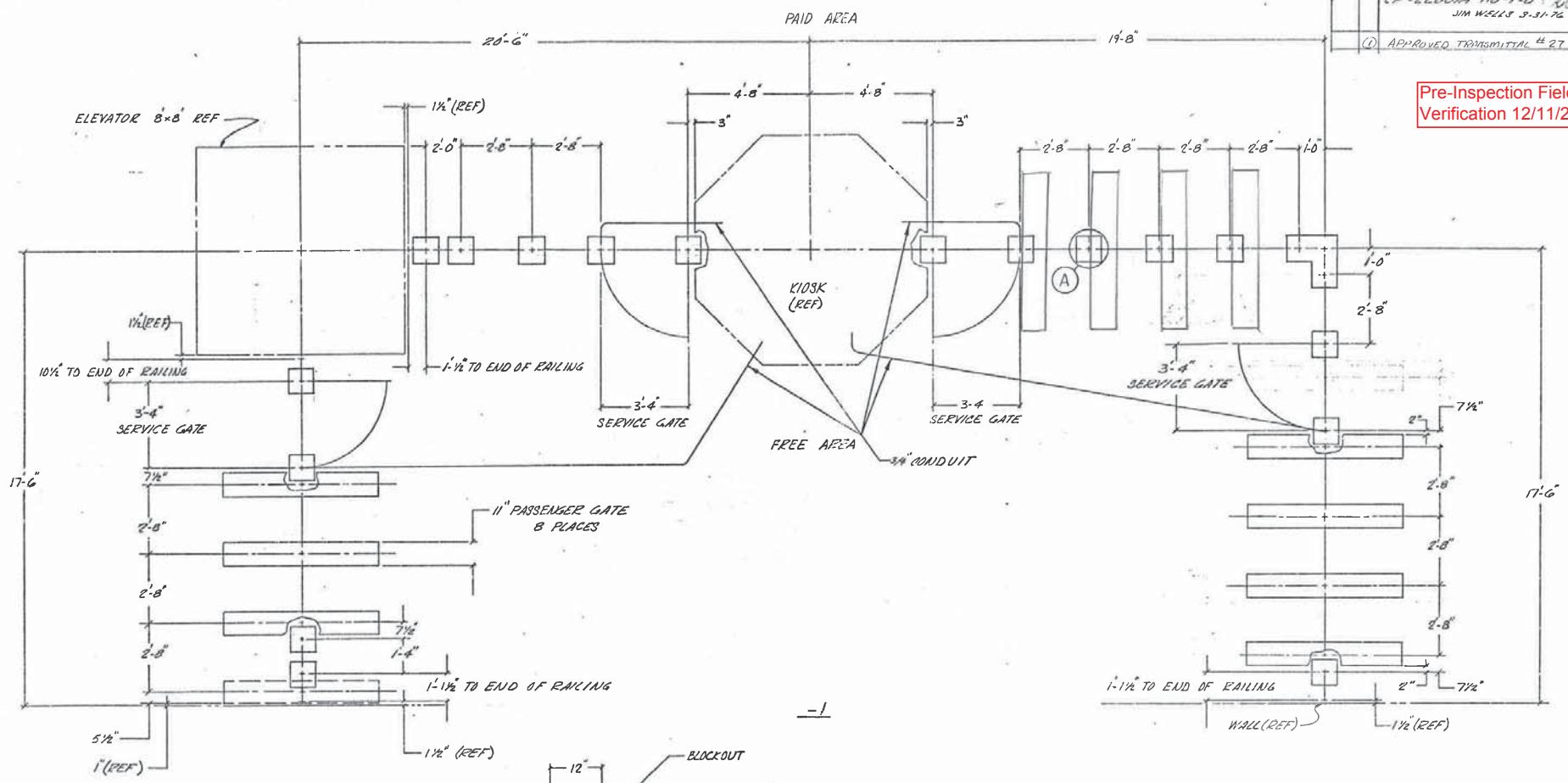
1. INSTALLATION PLAN
(AS BUILT CONDITION) 53

CONTRACT NUMBER 22007A		CUBIC WESTERN DATA <small>A Subsidiary of Cubic Corporation 3400 REARBY MESA ROAD, SUITE 100, OFFICE BOX 8017, SAN DIEGO, CA 92128</small>	
FEDERAL TRIANGLE STATION AFC MACHINES		DRAWING NUMBER 926-0397	
DESIGN ACTIVITY APPROVAL	SIZE D	SCALE 1/8" = 1'-0"	SHEET OF
APPROVED <i>[Signature]</i>			

NOTES: UNLESS OTHERWISE SPECIFIED

REVISIONS		DATE	APVD
1	REVISED PER WARA 7 DWG IN CP-22007A-118-1-0 JJ. JIM WELLS 3-31-72		
2	APPROVED TRANSMITTAL # 27	5/1/76	

Pre-Inspection Field Verification 12/11/2014



-1

WASHINGTON AIRPORT
 FEDERAL TRIANGLE STATION

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL UN. DECIMALS ANGLES		CONTRACT NUMBER 22007A	CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA
UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE:		DESIGN ACTIVITY APPROVAL	
HOLE DIA	TOLERANCES	APPROVED	FEDERAL TRIANGLE STATION SERVICE GATE & RAILING
.015 THRU .125	+ .004 - .001	SCALE 1/8" = 1'-0"	DRAWING NUMBER 926-0337
.126 THRU .250	+ .005 - .001	SHEET 1 OF 1	REV 53
.251 THRU .500	+ .006 - .001		
.501 THRU .750	+ .008 - .001		
.751 THRU 1.000	+ .010 - .001		

D
C
B
A

Pre-Inspection Field
Verification 12/11/2014

EXISTING PANEL "WF" ✓										
AMPERES: 400	VOLTS: 120/208		MOUNTING: SURFACE							
MAINS: 400A MCB	PHASE: 3		LOCATION: MECHANICAL EQUIP. ROOM 206 C206							
RATING: 10K AIC	WIRE: 4		SECTION: 1 OF 1							
LOAD DESCRIPTION	KVA	AMP	POLE	NO	CKT. NO.	CKT. POLE	CKT. AMP	KVA	LOAD DESCRIPTION	
EXISTING VENDOR	0.6	20	1	1	A -	2	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	5	- - C	6	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A -	8	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	- - C	12	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	13	A -	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	- - C	18	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	19	A -	20	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	25	A -	26	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	27	- B -	28	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	29	- - C	30	1	20	0.0	EXISTING VENDOR
EXISTING VENDOR	1.4	30	3	31	A -	32	1	20	0.0	EXISTING VENDOR
	1.0	-	-	33	- B -	34	1	20	0.8	EXISTING VENDOR
	1.0	-	-	35	- - C	36	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.0	20	1	37	A -	38	3	30	2.9	EXIST' LOAD CENTER "KES"
✓ 1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	39	- B -	40	-	-	2.5	
✓ 1&2 SPARE (KIOSK)	0.0	20	1	41	- - C	42	-	-	2.5	

NOTES 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC


LOAD SUMMARY

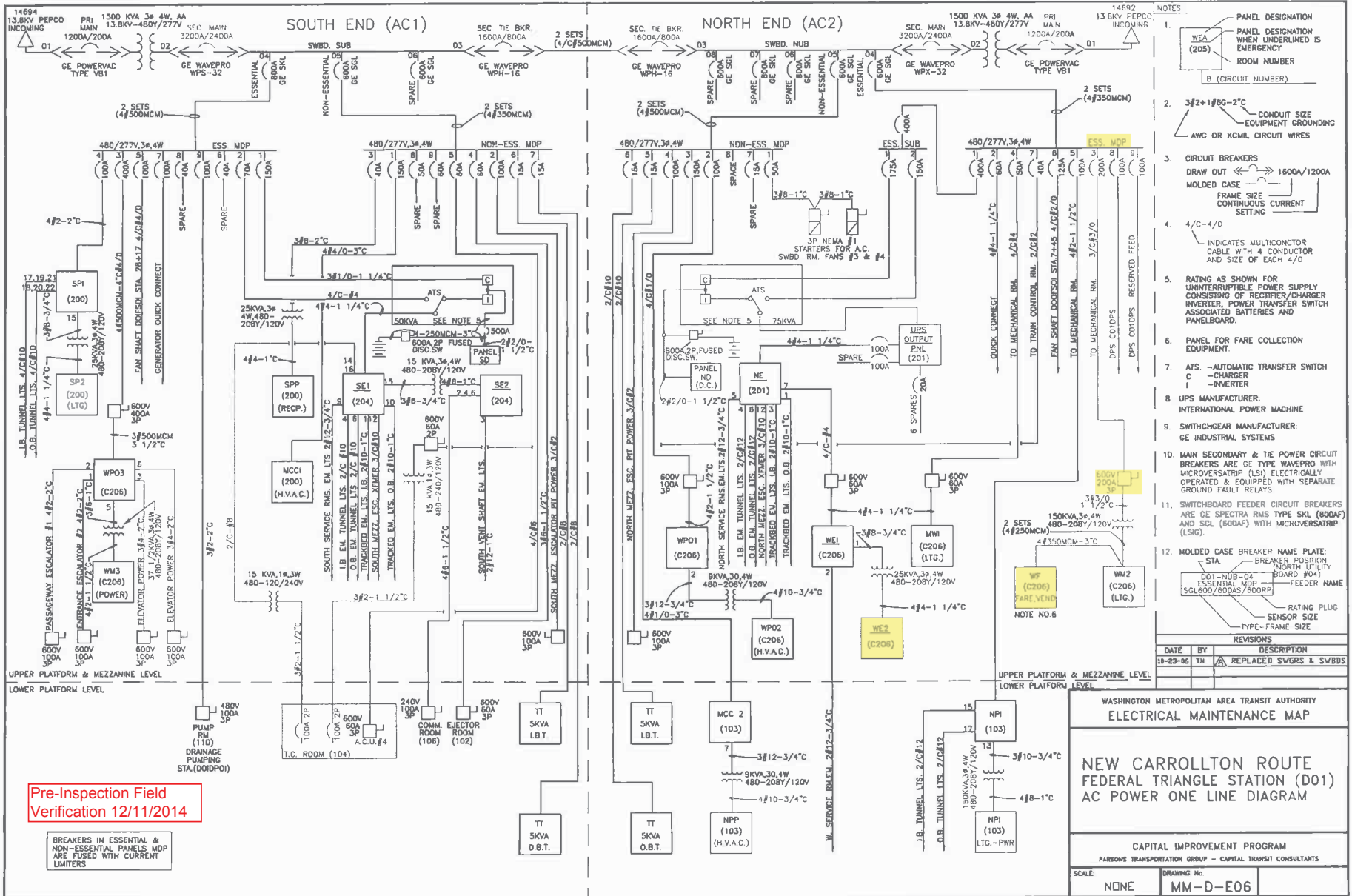
LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	15.6 x 50%	7.8 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	6.0 x 125%	7.5 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	36.1 KVA	TOTAL DEMAND KVA 29.8 KVA
		TOTAL DEMAND AMPS 82.8 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	11.5 KVA	
PHASE E	13.1 KVA	
PHASE C	11.5 KVA	

NOTES: A. EXISTING PANEL "WF" IS FED FROM 120/208V, 3Ø, 4W EXISTING PANEL "NMDP" LOCATED IN AC SWBD ROOM 205, CIRCUIT #4-200A/3P (SEE ATTACHED DWG- MM-D-006).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 2-Ø 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
* 1-2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 5-3/4" C. (1-EMPTY, 1-WIRING FILL >20% & 3-WIRING FILL >40%).
EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 2-3" C. (1-WIRING FILL >40% & 1-EMPTY).

Existing SWBD "ESS MDP". LOCATED IN AC SWBD ROOM 205, BREAKER #3 - 200A/3P VIA DISCONNECT SWITCH "TRANSF FOR PANEL'S WF AND WM2" VIA 150KVA TRANSFORMER.

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED C. NOD 10-14 DATE	REFERENCE DRAWINGS		REVISIONS		WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM	 A Gannett Fleming/Parsons JOINT VENTURE	NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS FEDERAL TRIANGLE PANEL SCHEDULE			
DRAWN C. NOD 10-14 DATE	NUMBER	DESCRIPTION	DATE	BY			APPROVED _____	SUBMITTED _____ PROJECT MANAGER	SCALE NOT TO SCALE	DRAWING NO. D01-E-102
CHECKED B. IDLER 10-14 DATE										
APPROVED M/A DATE										




Pre-Inspection Field Verification 12/11/2014

BREAKERS IN ESSENTIAL & NON-ESSENTIAL PANELS MDP ARE FUSED WITH CURRENT LIMITERS

- NOTES
- PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY (205) ROOM NUMBER (B (CIRCUIT NUMBER))
 - 3/2+1/60-2" CONDUIT SIZE EQUIPMENT GROUNDING AWG OR KCMIL CIRCUIT WIRES
 - CIRCUIT BREAKERS DRAW OUT 1600A/1200A MOLDED CASE CONTINUOUS CURRENT SETTING
 - 4/C-4/0 INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR AND SIZE OF EACH 4/C
 - RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER/CHARGER INVERTER, POWER TRANSFER SWITCH ASSOCIATED BATTERIES AND PANELBOARD.
 - PANEL FOR FARE COLLECTION EQUIPMENT.
 - ATS - AUTOMATIC TRANSFER SWITCH C - CHARGER I - INVERTER
 - UPS MANUFACTURER: INTERNATIONAL POWER MACHINE
 - SWITCHGEAR MANUFACTURER: GE INDUSTRIAL SYSTEMS
 - MAIN SECONDARY & TIE POWER CIRCUIT BREAKERS ARE GE TYPE WAVEPRO WITH MICROVSTRIP (LSI) ELECTRICALLY OPERATED & EQUIPPED WITH SEPARATE GROUND FAULT RELAYS
 - SWITCHBOARD FEEDER CIRCUIT BREAKERS ARE GE SPECTRA RMS TYPE SKL (800AF) AND SGL (800AF) WITH MICROVSTRIP (LSI)
 - MOLDED CASE BREAKER NAME PLATE: STA - BREAKER POSITION (NORTH UTILITY BOARD #04) D01-NUB-04 ESSENTIAL MDP - FEEDER NAME SGL800/60DAS/60DRP - RATING PLUG (LTC.) - SENSOR SIZE TYPE - FRAME SIZE
- | REVISIONS | |
|-----------|------------------------|
| DATE | DESCRIPTION |
| 10-23-06 | REPLACED SWGRS & SWBDS |

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/04/2014		Station Name: Smithsonian (North) - D02		Mezzanine #: 054		Completed By: Tino Sahoo	
Check	Task	Equipment		Room ID	Notes		
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number:	NMH	Rm 215	Source Panel NMH feeds Panel NM via breaker #1. SWBD NUB (Breaker #9) feeds Panel NMH. SWBD NGB (Breaker #1) feeds Panel NMPO.		
		Source Breaker Name/Number:	Breaker #4	Rm 215			
		Electrical AFC Panel Name/Number:	NF	Rm 215			
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number:					
		SMNT/POWR escorts:	HIGH Voltage				
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes.	YES (see notes)		Panels NM, NM-E, NMH-E, NMH, NMPO, and NMM share a raceway (trough).		
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:					
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access?	YES (see notes)		All conduit/ducts on one level. Power duct run is approx. 120' from Kiosk to AFC Panel.		
		Identified Conduit/Duct Transition to mezzanine level?	YES				
Emergency Power Verification							
Check	Task	Equipment		Room ID	Notes		
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:					
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number:	Panel KE	Kiosk	Also, need to LOTO for emergency power: Kiosk Panel - Main Breaker;		
		Source Breaker Name/Number:	Breaker "AFC EM"	Kiosk			
		Panel Name/Number:	Emergency Power Faregates				
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:	Tino Sahoo						
Signature:							
Date:	11/04/2014						

Picture 1: D02 Smithsonian North – Handholes on Mezzanine



Picture 2: D02 Smithsonian North – Handholes on Mezzanine



Picture 3: D02 Smithsonian North – Manholes in Service corridor



Picture 4: D02 Smithsonian North – Emergency Panel KE in Kiosk



Picture 5: D02 Smithsonian North – Emergency Panel KE in Kiosk



Picture 6: D02 Smithsonian North – Unknown Emergency Panel in Kiosk



Picture 7: D02 Smithsonian North – AFC Panel NF in Room 215



Picture 8: D02 Smithsonian North – AFC Panel NF in Room 215



Picture 9: D02 Smithsonian North – AFC Panel NF in Room 215 – Panel schedule

WESTINGHOUSE	
Panel "NF" CIRCUIT DIRECTORY	
1 Kiosk Normal Lighting	2 Fare Gate (S END) ^{#18} GATE # 12
3 Fare Gate ^{#11} (ADD FARE)	4 Fare Gate (REV 15) ^{#11} GATE # 11
5 ^{#15} (ADD FARE)	6 Fare Gate (EXIT) ^{#15} GATE # 15
7 ^{#34} Fake Card No. 34	8 Fare Gate (H END) ^{#13} GATE NO. 13
9 Free Area AFC # 33 Machines (VENDOR)	10 Free Area AFC ^{GATE # 14} Machines (REV # 3100)
11 ^{#32} (VENDOR)	12 GATE "120" (ENTRY) NOV
13 ^{#31} " "	14 " " "
15 ^{#30} " "	16 " " "
17 NEW AFC MACHINE # 36	18 ^{#21} "21" (GATE)
19 Paid Area AFC Machines # 35	20 Paid Area AFC (NEW) Machines (NEW)
21 NEW TVM VENDER	22
23 NEW SMART REF VENDOR	24
25 " " " "	26 ^{#10} "10" (GATE) (NEW)
27 A/C Heating-Kiosk	28 Spare ^{#23} (NEW) (GATE) (NEW)
29 Spare	30 Spare NEW (FOR SIDE) FARRINGTON 712419
31 " "	32 Spare NEW GATE 712419
33 " "	34 Blank
35 Blank	36 " " "

Picture 10: D02 Smithsonian North – AFC Panel NF in Room 215 – Bottom duct & conduits



Picture 11: D02 Smithsonian North – Common trough for Panels NM, NM-E, NMH-E, NMH, & NMPO in Room 215



Picture 12: D02 Smithsonian North – Common trough for Panels NM, NM-E, NMH-E, NMH, & NMPO in Room 215



NOTES:

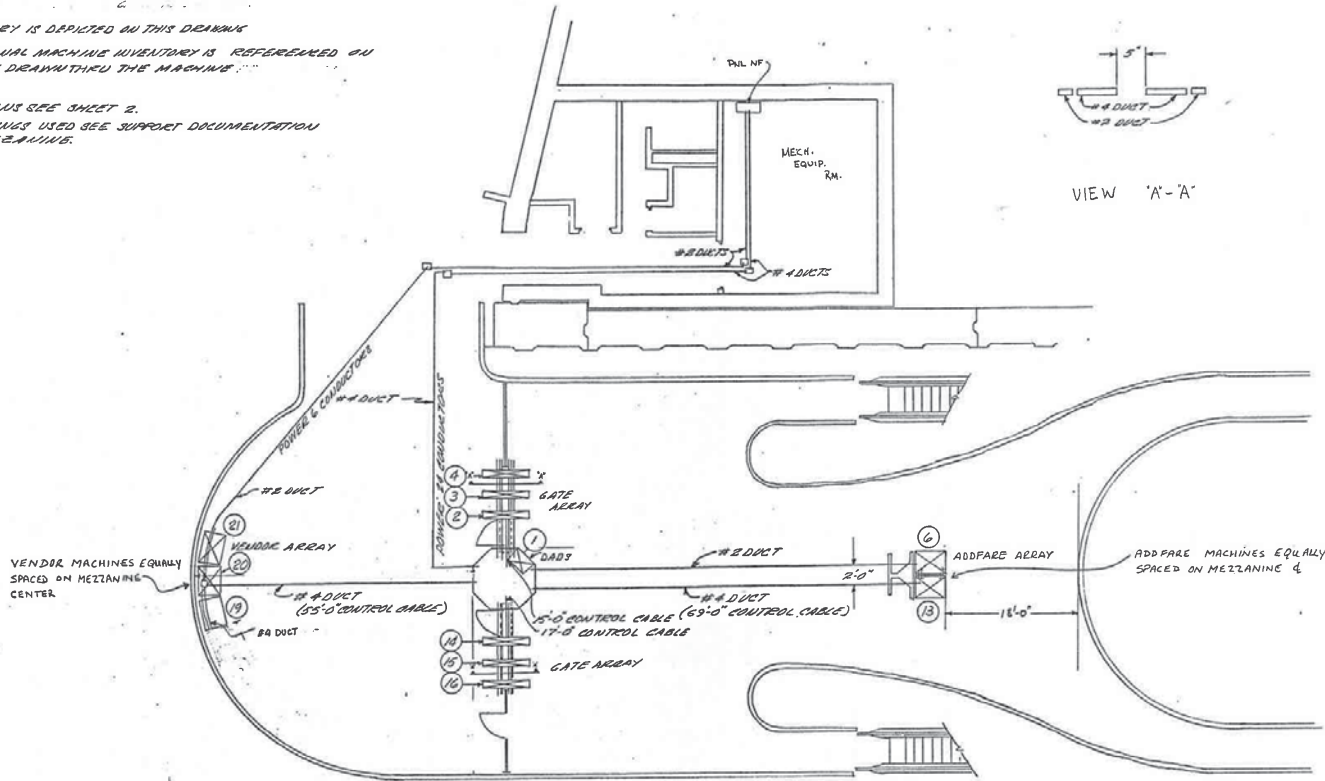
ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY BENTLEY.

TOTAL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE X DRAWN THRU THE MACHINE.

FOR AS BUILT CONDITIONS SEE SHEET 2.
FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.

REVISIONS	DATE	APPROVED
AS BUILT DRAWING REFERENCE A	7-13-77	JFB

Pre-Inspection Field Verification 11/04/2014



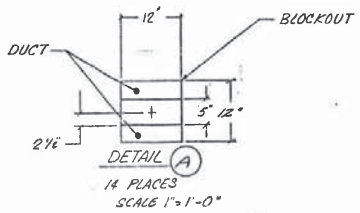
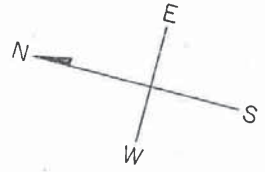
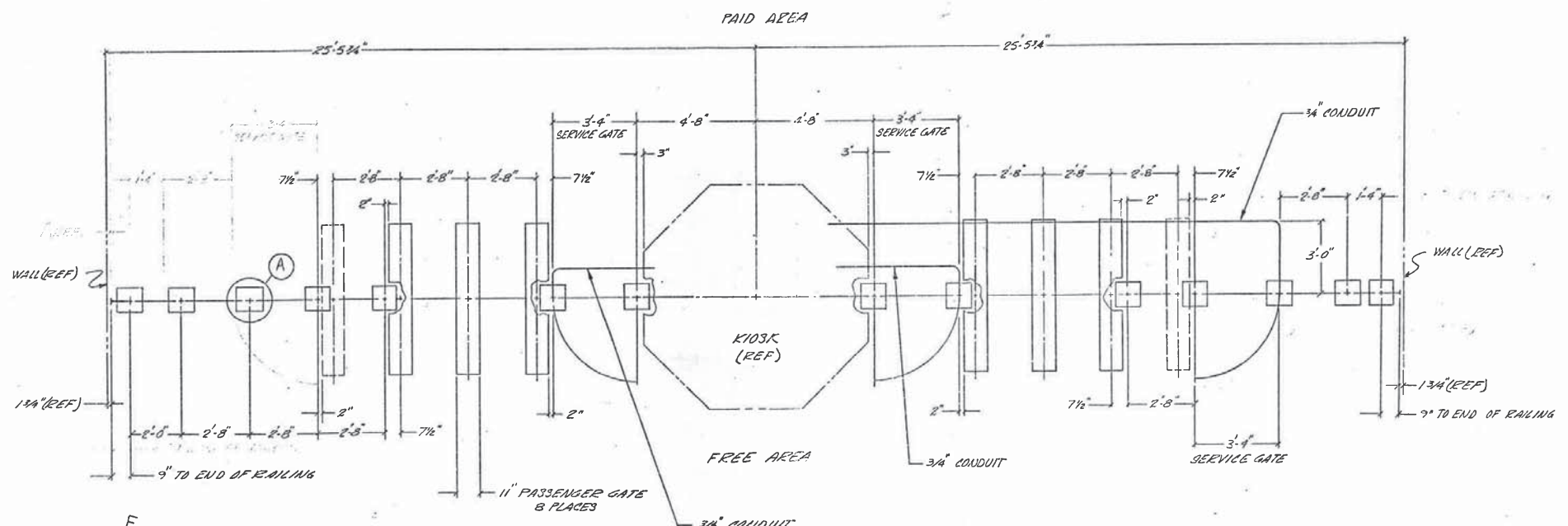
-1 INSTALLATION PLAN
(AS BUILT CONDITION)

CONTRACT NUMBER 22007A		CUBIC WESTERN DATA <small>A subsidiary of Cubic Corporation 1300 KENNETH WEAVER ROAD • POST OFFICE BOX 90707 • SAN DIEGO, CA 92108</small>	
DESIGN ACTIVITY APPROVAL [Signature] APPROVED [Signature] 11/12/76		SIZE <input type="checkbox"/> 1/8" x 1/4"	DRAWING NUMBER 926-0384
SHEET 1 OF 2		SCALE 1/8" = 1'-0"	

NOTES: UNLESS OTHERWISE SPECIFIED

ZONE		REVISIONS		
LTR		DESCRIPTION	DATE	APVD
1		REVISED PER WAMATA DWG NO. CP-22007A-12-1-0 JIM WELLS 3-31-76 (S)		

Pre-Inspection Field Verification 11/04/2014



-1
NORTH MEZZANINE

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL. ON DECIMALS XX XX XX ± 0.10		CONTRACT NUMBER 22007A		CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA	
UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE:		DATE		SMITHSONIAN STATION	
HOLE DIA.	TOLERANCES	TIME		SERVICE GATE # RAILING	
0.125 THRU 1.250	+0.004 -0.007	DATE		NORTH MEZZANINE	
1.250 THRU 2.500	+0.005 -0.007	TIME		DRAWING NUMBER	
2.500 THRU 5.000	+0.006 -0.007	DATE		926-0319	
5.000 THRU 7.500	+0.007 -0.007	TIME		SHEET 1 OF 2	
7.500 THRU 10.000	+0.008 -0.007	DATE		WB-7	

6/EO-926

EXISTING PANEL "SF"												
AMPERES: 400		VOLTS: 120/208		MOUNTING: SURFACE								
MANS: 400A MLO		PHASE: 3		LOCATION: MECHANICAL EQUIP. ROOM 214								
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	AMPS	POLE	CKT. NO.	POLE	AMP	KVA	LOAD DESCRIPTION				
EXISTING VENDOR	0.8	20	1	1	A	-	2	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	0.8	SPARE		
EXISTING VENDOR	0.8	20	1	5	-	C	6	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	7	A	-	8	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	9	-	B	-	10	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	11	-	C	12	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	13	A	-	14	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	17	-	C	18	0.8	SPARE			
SPACE	0.0	-	-	19	A	-	20	2.9	EXIST. LOAD CENTER "KES"			
EXISTING VENDOR	0.8	20	1	21	-	B	-	22	-	2.5		
SPACE	0.0	-	-	23	-	C	24	-	-	2.5		
EXISTING VENDOR	0.8	20	1	25	A	-	26	1	20	0.0	SPARE	
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	27	-	B	-	28	1	20	0.0	
SPARE (KIOSK)	0.0	20	1	29	-	C	30	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	31	A	-	32	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	33	-	B	-	34	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	35	-	C	36	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	37	A	-	38	1	20	0.0	SPARE	
SPARE	0.0	20	1	39	-	B	-	40	1	20	0.0	SPARE
SPARE	0.0	20	1	41	-	C	42	1	20	0.0	SPARE	

1
1&2

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA	
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA	
RECEPTACLES	8.8 x 50%	4.4 KVA	
MISC. APPLIANCES	0.0 x 100%	0.0 KVA	
LARGEST MOTOR	0.0 x 125%	0.0 KVA	
MOTORS	0.0 x 100%	0.0 KVA	
HEAT	3.0 x 125%	3.8 KVA	
AC	4.5 x 100%	4.5 KVA	
WATER HEATING	0.0 x 125%	0.0 KVA	
TOTAL CONNECTED LOAD	26.3 KVA	TOTAL DEMAND KVA	22.7 KVA
		TOTAL DEMAND AMPS	62.9 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	9.3 KVA		
PHASE B:	8.9 KVA		
PHASE C:	8.1 KVA		

NOTES: A. EXISTING PANEL "SF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWBD "AC02-SOUTH" LOCATE IN AC SWBD RM 104, CIRCUIT #3-100A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E07).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 5-1 1/2" C. (3-WIRING FILL >40%) & (2-WIRING FILL >20%).
EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
* 2-1/2" C. (WIRING FILL >40%).

EXISTING PANEL "NF" ✓												
AMPERES: 400		VOLTS: 120/208		MOUNTING: SURFACE								
MANS: 400A MLO		PHASE: 3		LOCATION: MECHANICAL EQUIP. ROOM-205 Room 215								
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	AMPS	POLE	CKT. NO.	POLE	AMP	KVA	LOAD DESCRIPTION				
EXISTING VENDOR	0.8	20	1	1	A	-	2	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	5	-	C	6	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	7	A	-	8	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	9	-	B	-	10	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	11	-	C	12	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	13	A	-	14	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	17	-	C	18	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	19	A	-	20	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	21	-	B	-	22	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)
EXISTING VENDOR	0.8	20	1	23	-	C	24	1	20	0.0	SPARE (KIOSK)	
SPARE	0.0	20	1	25	A	-	26	1	20	0.8	EXISTING VENDOR	
EXIST. LOAD CENTER "KES"	2.9	40	3	27	-	B	-	28	1	20	0.8	EXISTING VENDOR
	2.5	-	-	29	-	C	30	-	-	0.0	SPACE	
	2.5	-	-	31	A	-	32	-	-	0.0	SPACE	
SPACE	0.0	-	-	33	-	B	-	34	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	35	-	C	36	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	37	A	-	38	-	-	0.0	SPACE	
SPACE	0.0	-	-	39	-	B	-	40	-	-	0.0	SPACE
SPACE	0.0	-	-	41	-	C	42	-	-	0.0	SPACE	

1

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA	
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA	
RECEPTACLES	12.0 x 50%	6.0 KVA	
MISC. APPLIANCES	0.0 x 100%	0.0 KVA	
LARGEST MOTOR	0.0 x 125%	0.0 KVA	
MOTORS	0.0 x 100%	0.0 KVA	
HEAT	3.0 x 125%	3.8 KVA	
AC	4.5 x 100%	4.5 KVA	
WATER HEATING	0.0 x 125%	0.0 KVA	
TOTAL CONNECTED LOAD	29.5 KVA	TOTAL DEMAND KVA	24.3 KVA
		TOTAL DEMAND AMPS	67.4 AMPS
CONNECTED LOAD PHASE SUMMARY			
PHASE A:	9.7 KVA		
PHASE B:	10.9 KVA		
PHASE C:	8.9 KVA		

NOTES: A. EXISTING PANEL "NF" IS FED FROM 277/480V, 3ø, 4W EXISTING PANEL "NMH" LOCATE IN MECH. EQUIP. ROOM 205, 215
CIRCUIT #4-125A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E07).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
* 2-3/4" C. (WIRING FILL >40%).
* 1-6 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).

Breaker →

Pre-Inspection Field Verification 11/04/2014

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	10-14	REFERENCE DRAWINGS		REVISIONS		
			NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN	C. NGO	10-14					
CHECKED	B. IDLBI	10-14					
APPROVED	N/A						

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

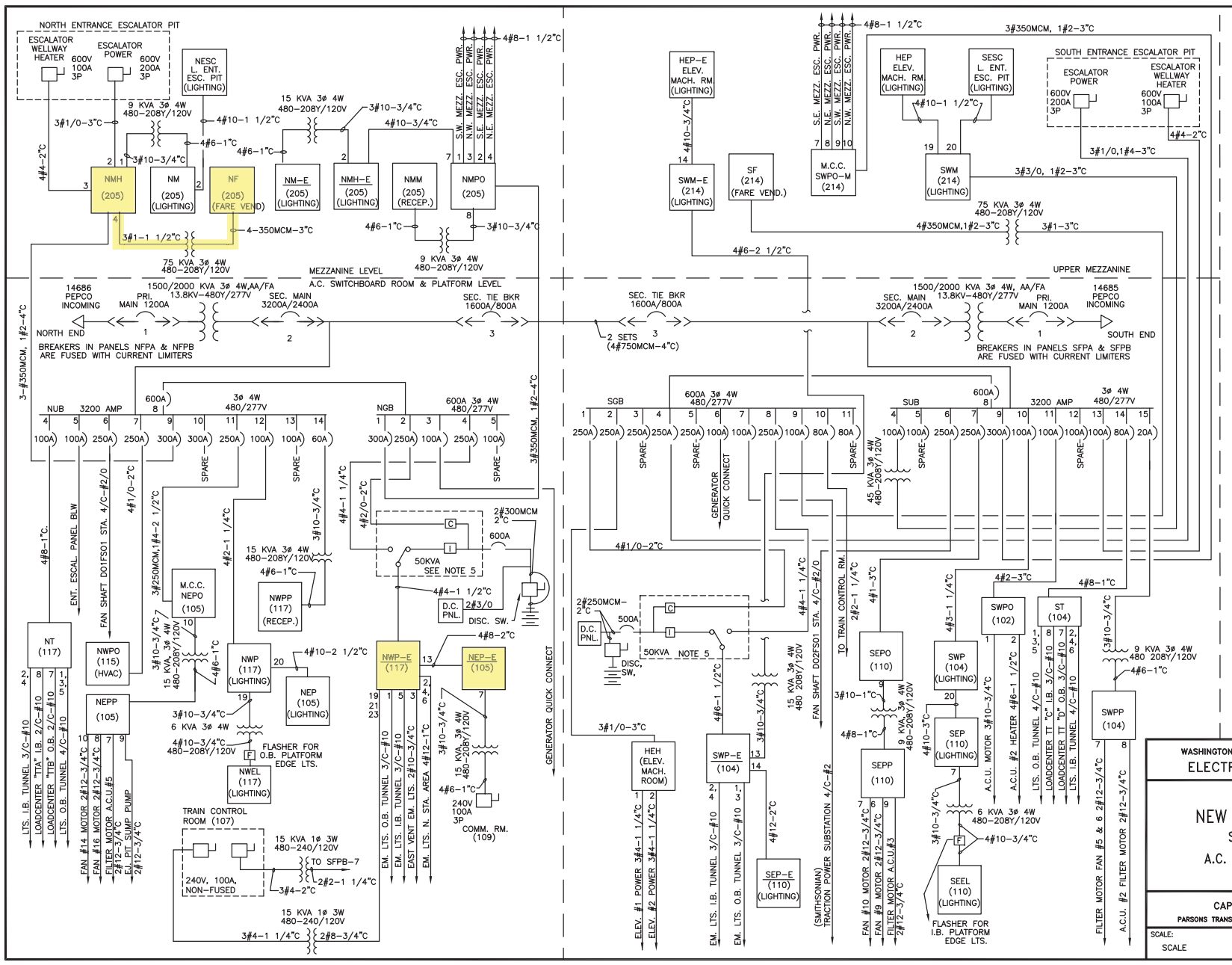
GFP JOINT VENTURE
A Gannett Fleming/Parsons

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRO RAIL STATIONS SMITHSONIAN - NORTH & SOUTH PANEL SCHEDULES

SCALE: NOT TO SCALE DRAWING NO.: D02-E-102

DESIGNED 0 HOURS DATE 05/12/2011 CHECKED 8 HOURS DATE 05/12/2011
 DRAWN 0 HOURS DATE 05/12/2011 APPROVED A. ROBINSON DATE



- NOTES:**
1. PANEL DESIGNATION
 WEA (205) PANEL DESIGNATION WHEN UNDERLINED EMERGENCY (LIGHTING)
 () TYPE OF DISTRIBUTION
 8 (CIRCUIT NUMBER)
 + IF NO CIRCUITS SHOWN
 2. 3#2-1#6-2°C
 CONDUIT SIZE *
 AWG. GROUND WIRE *
 * - AS TAKEN FROM AS-BUILT DRAWINGS *
 3. CIRCUIT BREAKERS
 DRAW OUT <<< >>> 1600A/1200A
 MOLDED CASE 60A
 FRAME SIZE 3
 TRIP SETTING
 4. 4/C-4/0
 INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR AND SIZE OF EACH 4/0*
 5. RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER/CHARGER INVERTER, POWER TRANSFER SWITCH ASSOCIATED BATTERIES AND D.C. PANELBOARD.
 6. SWITCHGEAR MANUFACTURER WESTINGHOUSE
 TYPE OF BREAKERS DS
 7. UPS MANUFACTURER JPM

Pre-Inspection Field Verification 11/04/2014

REVISIONS		
DATE	BY	DESCRIPTION
02/14/11	GH	UPDATE AS BUILT


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE
SMITHSONIAN STATION
A.C. POWER ONE LINE DIAGRAM (DO2)

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE:	DRAWING No. MM-D-E07
SCALE:	

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/04/2014		Station Name: Smithsonian (South) - D02		Mezzanine #: 055		Completed By: Tino Sahoo	
Check	Task	Equipment			Room ID	Notes	
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number:	SWBD SGB		Rm 104	AC SWBD Rm 104 is Track 1 wayside.	
		Source Breaker Name/Number:	D02-SGB-09		Rm 104		
		Electrical AFC Panel Name/Number:	SF		Rm 104		
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number:					
		SMNT/POWR escorts:	HIGH Voltage				
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes.	YES (see notes)			Panel SF share trough with Panel SWM-E and SWM.	
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input type="checkbox"/>	COMM / IT <input type="checkbox"/>	ELES <input type="checkbox"/>		D02-SUB-04 Breaker on SWBD SUB will de-energize Panel SWM. Breaker #13 on Panel SWP-E will de-energize Panel SWM-E.	
		RAIL <input type="checkbox"/>	CMNT <input type="checkbox"/>				
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access?	NO			Overhead conduits from AFC Panel to Mezzanine floor to Kiosk. Power Run from Kiosk to AFC Panel is approx. 150' via one handhole and trough.	
		Identified Conduit/Duct Transition to mezzanine level?	YES				
Emergency Power Verification							
Check	Task	Equipment			Room ID	Notes	
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:					
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number:	SWM-E		Rm 104	Panel KE located in Kiosk, Breaker #4 will de-energize emergency power to faregates.	
		Source Breaker Name/Number:	Breaker #13, 15		Rm 104		
		Panel Name/Number:	Kiosk Emergency Panel		Kiosk		
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:		Tino Sahoo					
Signature:							
Date:		11/04/2014					

Picture 1: D02 Smithsonian South – No handholes on Mezzanine



Picture 2: D02 Smithsonian South – Emergency Panel KE in Kiosk



Picture 3: D02 Smithsonian South – Emergency Panel KE in Kiosk



Picture 4: D02 Smithsonian South – Emergency Panel KE in Kiosk



Picture 5: D02 Smithsonian South – Emergency Panel KN in Kiosk



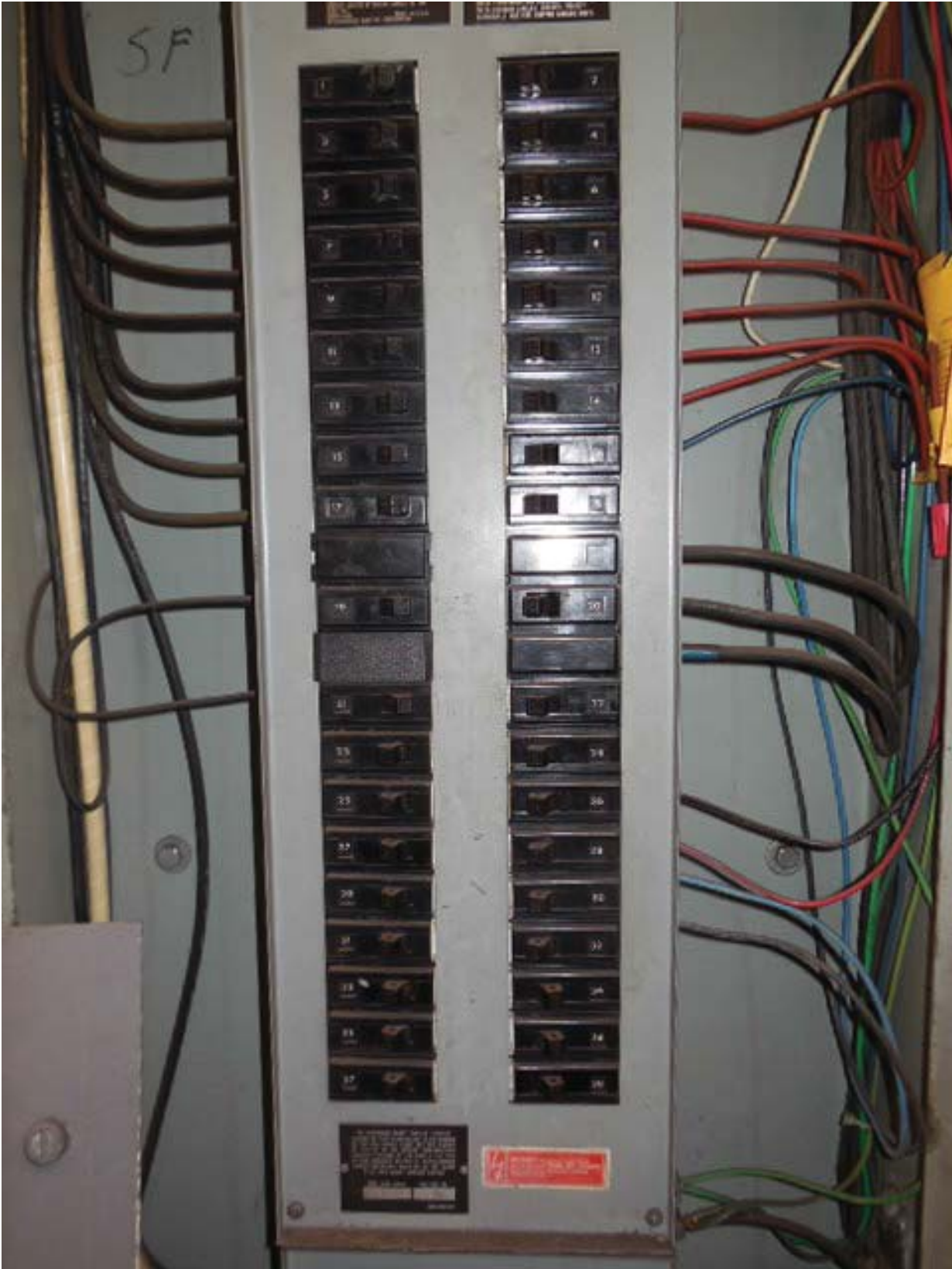
Picture 6: D02 Smithsonian South – AFC Panel SF in Room 104



Picture 7: D02 Smithsonian South – AFC Panel SF in Room 104



Picture 8: D02 Smithsonian South – AFC Panel SF in Room 104



Picture 9: D02 Smithsonian South – AFC Panel SF in Room 104 – Conduits above panel



Picture 10: D02 Smithsonian South – Breaker D02-SGB-09 for Panel SF in Room 104



Picture 11: D02 Smithsonian South – Breaker D02-SUB-04 for Panel SWM in Room 104



Picture 12: D02 Smithsonian South – Panel SWM-E in Room 104



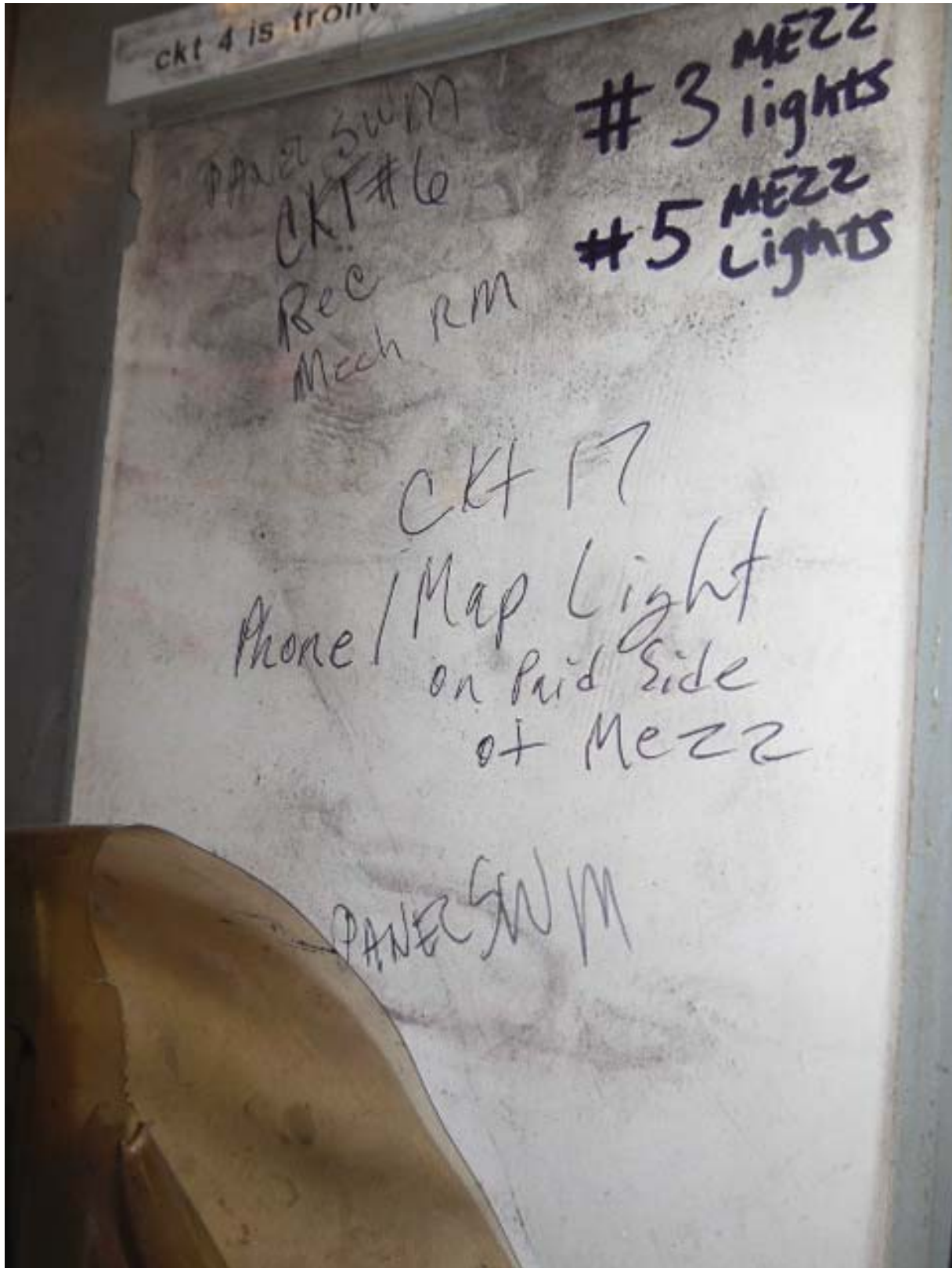
Picture 13: D02 Smithsonian South – Panel SWM-E in Room 104



Picture 14: D02 Smithsonian South – Panel SWM in Room 104



Picture 15: D02 Smithsonian South – Panel SWM in Room 104 – Panel schedule



Picture 16: D02 Smithsonian South – Panel SWP-E in Room 104



Picture 17: D02 Smithsonian South – Panel SWP-E in Room 104 – Panel schedule

CIRCUIT DIRECTOR

Panel "SWP-E" 277/46

1. Emer. Lts. Outbound S. W. Tunnel	2. Emer. Lts. Inbound S. E. Tunnel
3. " " " "	" " " "
5. Emer. Lts. Rear S. W. Edge Train Rm	6. Emer. Lts. South Train Room
7. Emer. Lts. South C-Train Room	8. Emer. Lts. South Train Room
9. Emerg. Lts. Upper Lvl. Mech. Comp. Rm.	10. Emer. Trip Sta. (SW&S Transf.)
11. Emer. Lts. S. W. Ancillary Rms.	12. Spare
13. Subfeed To "SWM-E" Via Trans	14. Subfeed To "SEP-E"
15. <i>FROM RTU</i>	16. <i>Spare Wall Lites West</i>
17. <i>Spare</i>	18. <i>wall lites west</i>
	20. <i>wall lites west - ME22 lights</i>
	22.
	24.
	26.
	28.
	30.

NOTES:

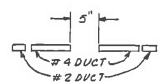
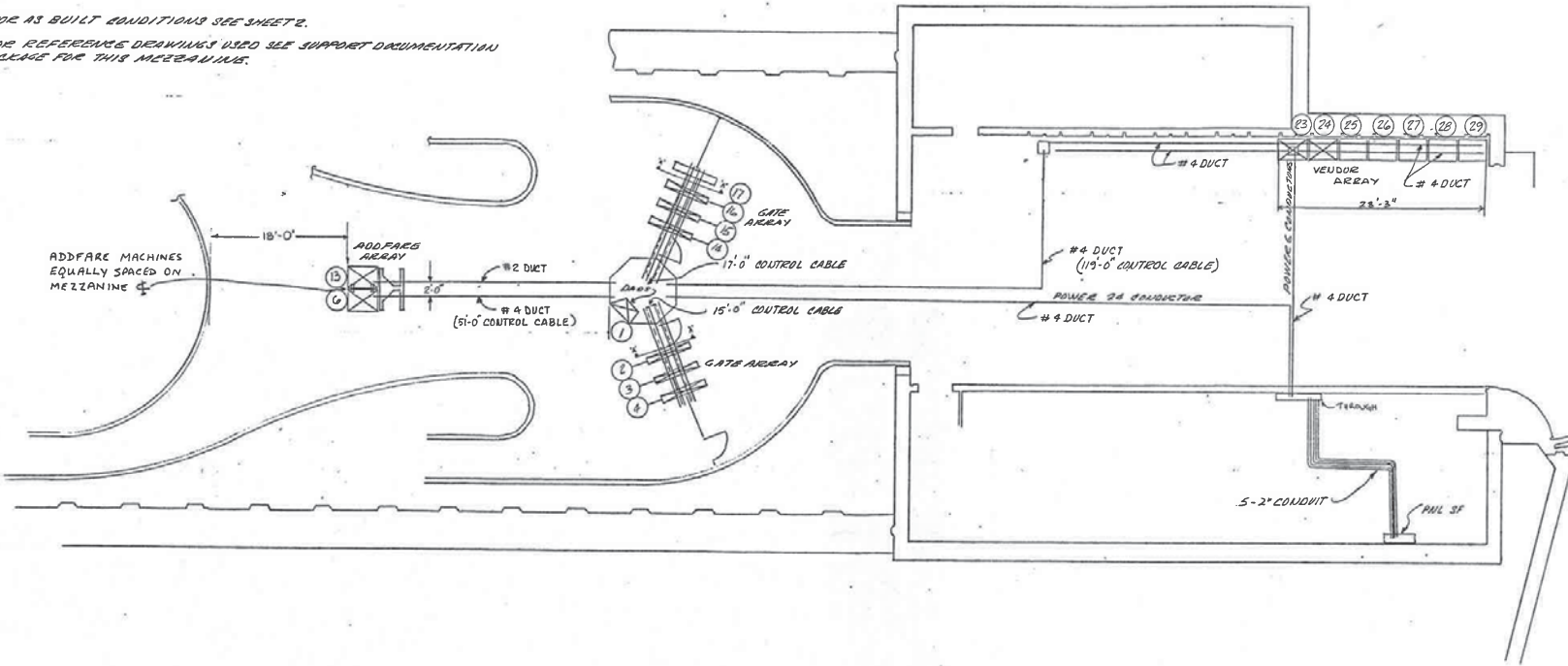
ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY WMATA

TOTAL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING. THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE X DRAWN THRU THE MACHINE.

FOR AS BUILT CONDITIONS SEE SHEET 2.

FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.

REVISIONS	DATE	APVO
DESCRIPTION		
AS BUILT DRAWING REVISION A	7-13-77	CB



VIEW 'A'-A'

- 2 INSTALLATION PLAN
(AS BUILT CONDITION)

Pre-Inspection Field
Verification 11/04/2014

REFERENCE DRAWINGS USED

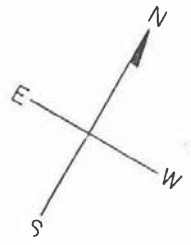
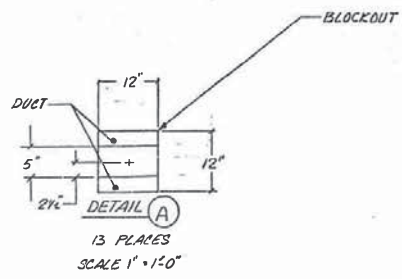
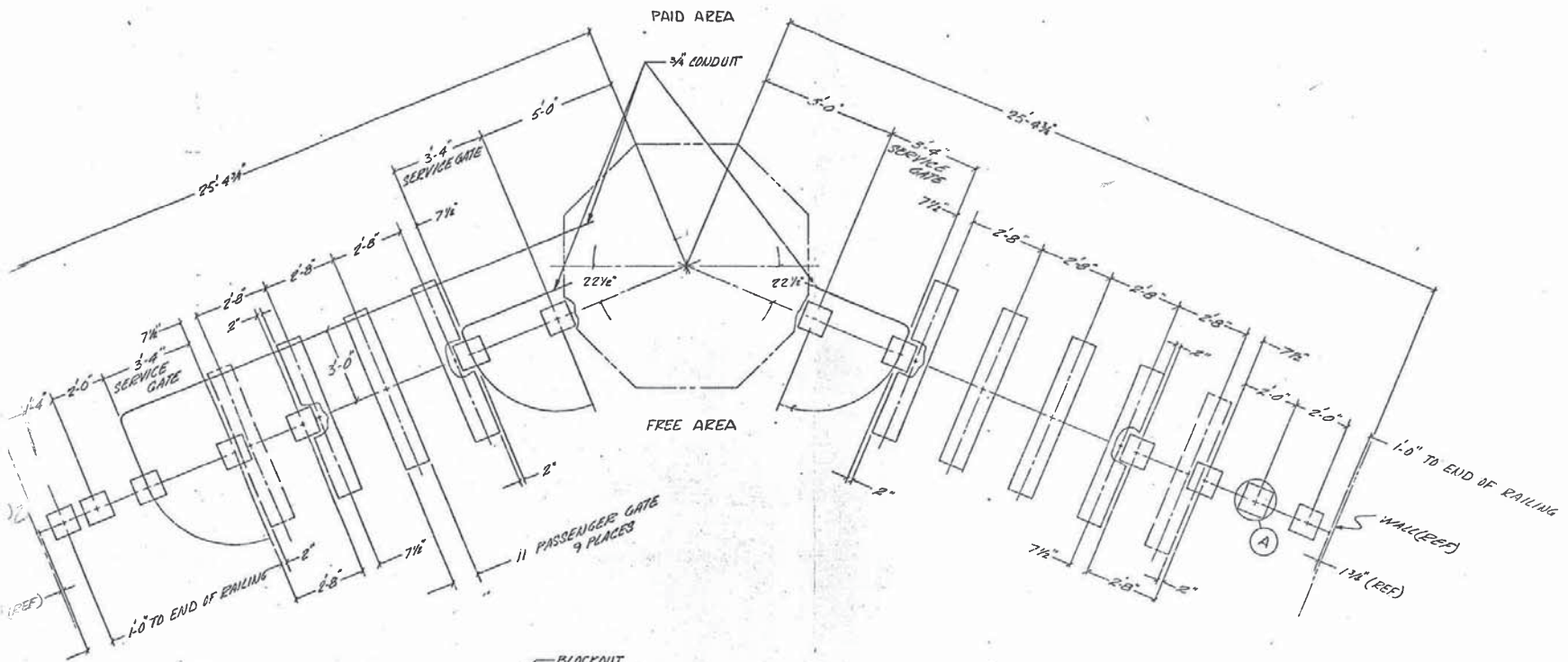
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WMATA REF. DWG #	N65 98
CWD REF DWG #	926-0319
CWD REF DWG	926-0329
	SW 344

DOTC 26227

CONTRACT NUMBER 22007A		CUBIC WESTERN DATA A subsidiary of Cubic Corporation 3600 REARNEY MESA ROAD - POST OFFICE BOX 80787 - SAN DIEGO, CA 92178	
REL		SMITHSONIAN STATION	
ENGRG		SOUTH MEZZANINE	
DESIGN		AFC MACHINES	
CHECK			
DRAWN			
DESIGN ACTIVITY APPROVAL	SIZE	DRAWING NUMBER	REV
<i>W.D. Powell</i> 8-5-78		926-0384	55
APPROVED		SCALE: 1"=10'	SHEET 2 OF 2

UNLESS OTHERWISE SPECIFIED

ZONE LTR		REVISIONS	DATE	APVD
		DESCRIPTION		



-1-
SOUTH MEZZANINE

Pre-Inspection Field
Verification 11/04/2014

WASHINGTON METROPOLITAN
AREA TRANSIT AUTHORITY

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL ON DECIMALS XX .XX XXX ± .010 ANGLES ± .05	CONTRACT NUMBER 22007A	CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA SMITHSONIAN STATION SERVICE GATE & RAILING SOUTH MEZZANINE			
	HOLE DIA TOLERANCES .015 THRU .125 +.004 - .001 .125 THRU .250 +.005 - .001 .256 THRU .500 +.006 - .001 .501 THRU .750 +.006 - .001 .751 THRU 1.000 +.010 - .011		DESIGN ACTIVITY APPROVAL APPROVED DATE FEB 5, 76	SIZE 1/4" X 1/4" D 94987	DRAWING NUMBER 926-0319
SCALE 1/4" = 1'-0"		SK-770	SHEET 2 OF 2		WD-7

926-0319

DATE	APVD

55

EXISTING PANEL "SF" ✓												
AMPERS: 400			VOLTS: 120/208			MOUNTING: SURFACE						
MANS: 400A MLO			PHASE: 3			LOCATION: MECHANICAL EQUIP. ROOM 214 - AC SWBD ROOM 104						
RATING: 10K AIC			WIRE: 4			SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	CKT. NO.	CKT. POLE	CKT. AMP	KVA	LOAD DESCRIPTION	KVA	AMP	POLE	
EXISTING VENDOR	0.8	20	1	1	A -	2	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.0			SPARE
EXISTING VENDOR	0.8	20	1	5	- C	6	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A -	8	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	- C	12	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A -	14	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	- C	18	1	20	0.0			SPARE
SPACE	0.0	-	-	19	A -	20	3	20	2.9			EXIST. LOAD CENTER "KES"
EXISTING VENDOR	0.8	20	1	21	- B -	22	-	-	2.5			
SPACE	0.0	-	-	23	- C	24	-	-	2.5			
EXISTING VENDOR	0.8	20	1	25	A -	26	1	20	0.0			SPARE
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	27	- B -	28	1	20	0.0			SPARE
SPARE (KIOSK)	0.0	20	1	29	- C	30	1	20	0.8			EXISTING VENDOR
SPARE	0.0	20	1	31	A -	32	1	20	0.8			EXISTING VENDOR
SPARE	0.0	20	1	33	- B -	34	1	20	0.8			EXISTING VENDOR
SPARE	0.0	20	1	35	- C	36	1	20	0.8			EXISTING VENDOR
SPARE	0.0	20	1	37	A -	38	1	20	0.0			SPARE
SPARE	0.0	20	1	39	- B -	40	1	20	0.0			SPARE
SPARE	0.0	20	1	41	- C	42	1	20	0.0			SPARE

1
1&2

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	8.8 x 50%	4.4 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	26.3 KVA	TOTAL DEMAND KVA
		22.7 KVA
		TOTAL DEMAND AMPS
		62.9 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	9.3 KVA	
PHASE B:	8.9 KVA	
PHASE C:	8.1 KVA	

NOTES: A. EXISTING PANEL "SF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWBD #4002-SOUTH LOCATE IN AC SWBD RM 104, CIRCUIT #3-100A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E07).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 5-1 1/2" C. (3-WIRING FILL >40%) & (2-WIRING FILL >20%).
EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
* 2-1/2" C. (WIRING FILL >40%).

Breaker 'D02-SGB-09'
(Breaker #9)

Pre-Inspection Field
Verification 11/04/2014

EXISTING PANEL "NF"												
AMPERS: 400			VOLTS: 120/208			MOUNTING: SURFACE						
MANS: 400A MLO			PHASE: 3			LOCATION: MECHANICAL EQUIP. ROOM 205						
RATING: 10K AIC			WIRE: 4			SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	CKT. NO.	CKT. POLE	CKT. AMP	KVA	LOAD DESCRIPTION	KVA	AMP	POLE	
EXISTING VENDOR	0.8	20	1	1	A -	2	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	5	- C	6	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A -	8	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	- C	12	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A -	14	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	- C	18	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	19	A -	20	1	20	0.8			EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8			NEW KIOSK RECEPT. (IT & NEPP)
EXISTING VENDOR	0.8	20	1	23	- C	24	1	20	0.0			SPARE (KIOSK)
SPARE	0.0	20	1	25	A -	26	1	20	0.8			EXISTING VENDOR
EXIST. LOAD CENTER "KES"	2.9	40	3	27	- B -	28	1	20	0.8			EXISTING VENDOR
	2.5	-	-	29	- C	30	-	-	0.0			SPACE
	2.5	-	-	31	A -	32	-	-	0.0			SPACE
SPACE	0.0	-	-	33	- B -	34	1	20	0.8			EXISTING VENDOR
SPARE	0.0	20	1	35	- C	36	1	20	0.8			EXISTING VENDOR
SPARE	0.0	20	1	37	A -	38	-	-	0.0			SPACE
SPACE	0.0	-	-	39	- B -	40	-	-	0.0			SPACE
SPACE	0.0	-	-	41	- C	42	-	-	0.0			SPACE

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	12.0 x 50%	6.0 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	29.5 KVA	TOTAL DEMAND KVA
		24.3 KVA
		TOTAL DEMAND AMPS
		67.4 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	9.7 KVA	
PHASE B:	10.9 KVA	
PHASE C:	8.9 KVA	

NOTES: A. EXISTING PANEL "NF" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "NMH" LOCATE IN MECH. EQUIP. ROOM 205, CIRCUIT #4-125A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E07).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
* 2-3/4" C. (WIRING FILL >40%).
* 1-6 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	10-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	10-14				
CHECKED	B. IDLEB	10-14				
APPROVED	N/A					

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

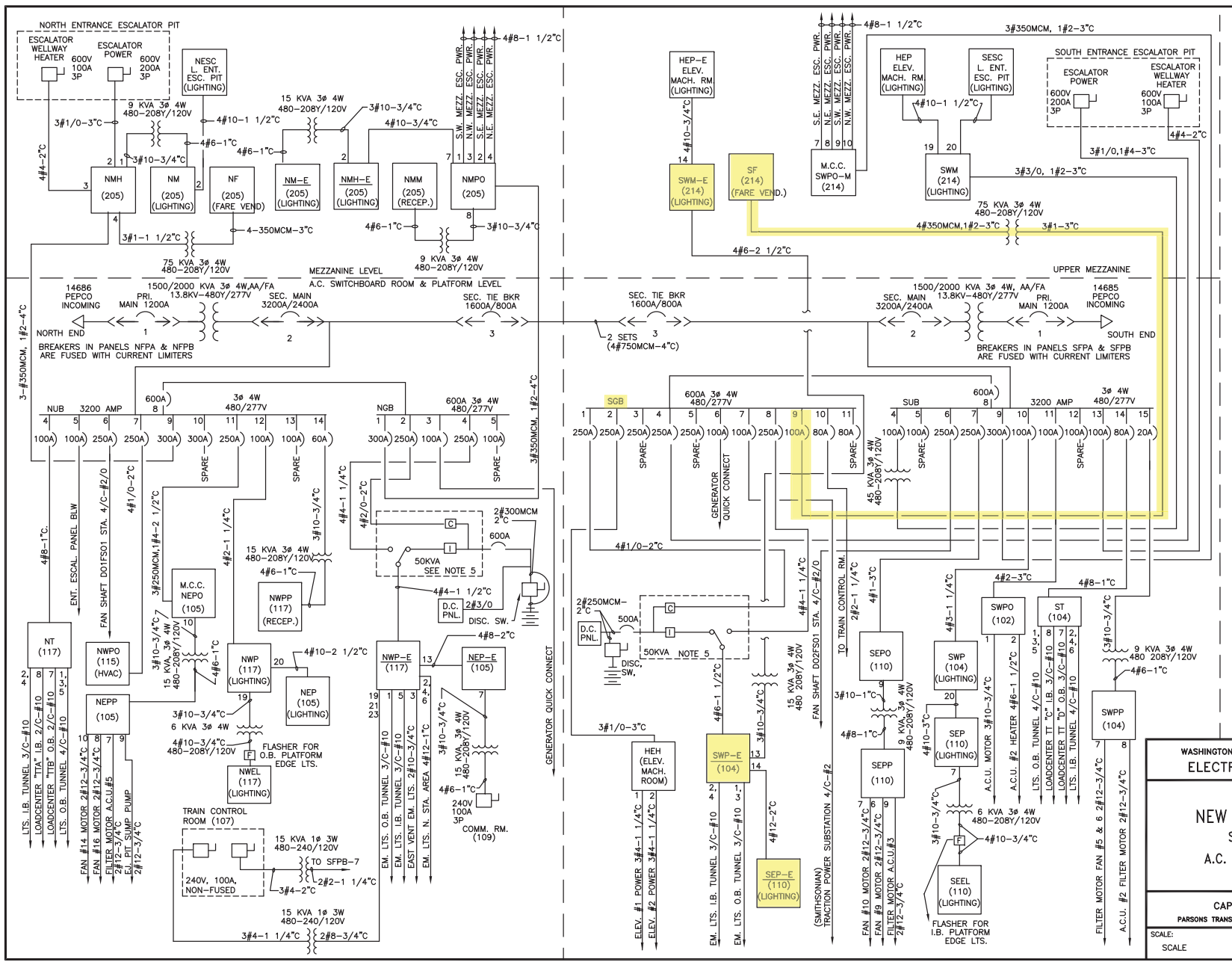
GFP JOINT VENTURE
A Gannett Fleming/Parsons

APPROVED _____ SUBMITTED _____ PROJECT MANAGER _____

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRO RAIL STATIONS
SMITHSONIAN - NORTH & SOUTH
PANEL SCHEDULES

SCALE: NOT TO SCALE
DRAWING NO.: D02-E-102

DESIGNED 0 HOURS
 DRAWN 0 HOURS
 CHECKED 8 HOURS
 DATE 05/16/2011
 APPROVED A. ROBINSON
 DATE 05/16/2011



- NOTES:**
1. PANEL DESIGNATION
 WEA (205) (LIGHTING)
 (TYPE OF DISTRIBUTION)
 8 (CIRCUIT NUMBER)
 + IF NO CIRCUITS SHOWN
 2. 3#2-1#6-2°C
 CONDUIT SIZE *
 AWG. GROUND WIRE *
 * - AS TAKEN FROM AS-BUILT DRAWINGS *
 3. CIRCUIT BREAKERS
 DRAW OUT <<<>> 1600A/1200A
 MOLDED CASE 60A
 FRAME SIZE 3
 TRIP SETTING
 4. 4/C-4/0
 INDICATES MULTICONDUCTOR
 CABLE WITH 4 CONDUCTOR
 AND SIZE OF EACH 4/0*
 5. RATING AS SHOWN FOR UNINTERRUPTIBLE
 POWER SUPPLY CONSISTING OF RECTIFIER/
 CHARGER INVERTER, POWER TRANSFER
 SWITCH ASSOCIATED BATTERIES AND
 D.C. PANELBOARD.
 6. SWITCHGEAR MANUFACTURER
 WESTINGHOUSE
 TYPE OF BREAKERS
 DS
 7. UPS MANUFACTURER
 JPM

Pre-Inspection Field
 Verification 11/04/2014

REVISIONS		
DATE	BY	DESCRIPTION
02/14/11	GH	UPDATE AS BUILT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE
SMITHSONIAN STATION
A.C. POWER ONE LINE DIAGRAM
(DO2)

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE:	DRAWING No.
SCALE:	MM-D-E07

Pre-Inspection Mezzanine Walkthrough Checklist


Date: 08/28/2014	Station Name: L'Enfant Plaza West	Mezzanine # 056	Completed By: Tino Sahoo
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Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: WB (AFC Source Panel) WE (WEZ Source Panel) Source Breaker Name/Number: "Panel WF", Circuit #7 Circuit #6 on Panel WE Electrical AFC Panel Name/Number: WF	W104 W104 W104	Room W104 is AC SWBD. RM. Located Wayside on Track 1 on Platform level.
<input checked="" type="checkbox"/>	Is there a disconnect switch connected to the AFC electrical power panel? Low or High voltage SMNT/POWR escorts required?	Disconnect Name/Number: N/A SMNT/POWR escorts: HIGH and LOW Voltage		
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to de-energize	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. YES (see notes)		AFC Panel (WF) shares a junction box (shared raceway) with Panel WEZ whose source panel is Panel WE. Panel WEZ will have to be de-energized by LOTO Circuit #6, 3PH Breaker on Panel WE.
<input checked="" type="checkbox"/>	Identify the assumed pathway of the duct, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Support for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		Conduits/Ducts on Two Levels (Platform level Overhead Conduit that transitions to Mezzanine Level handholes.

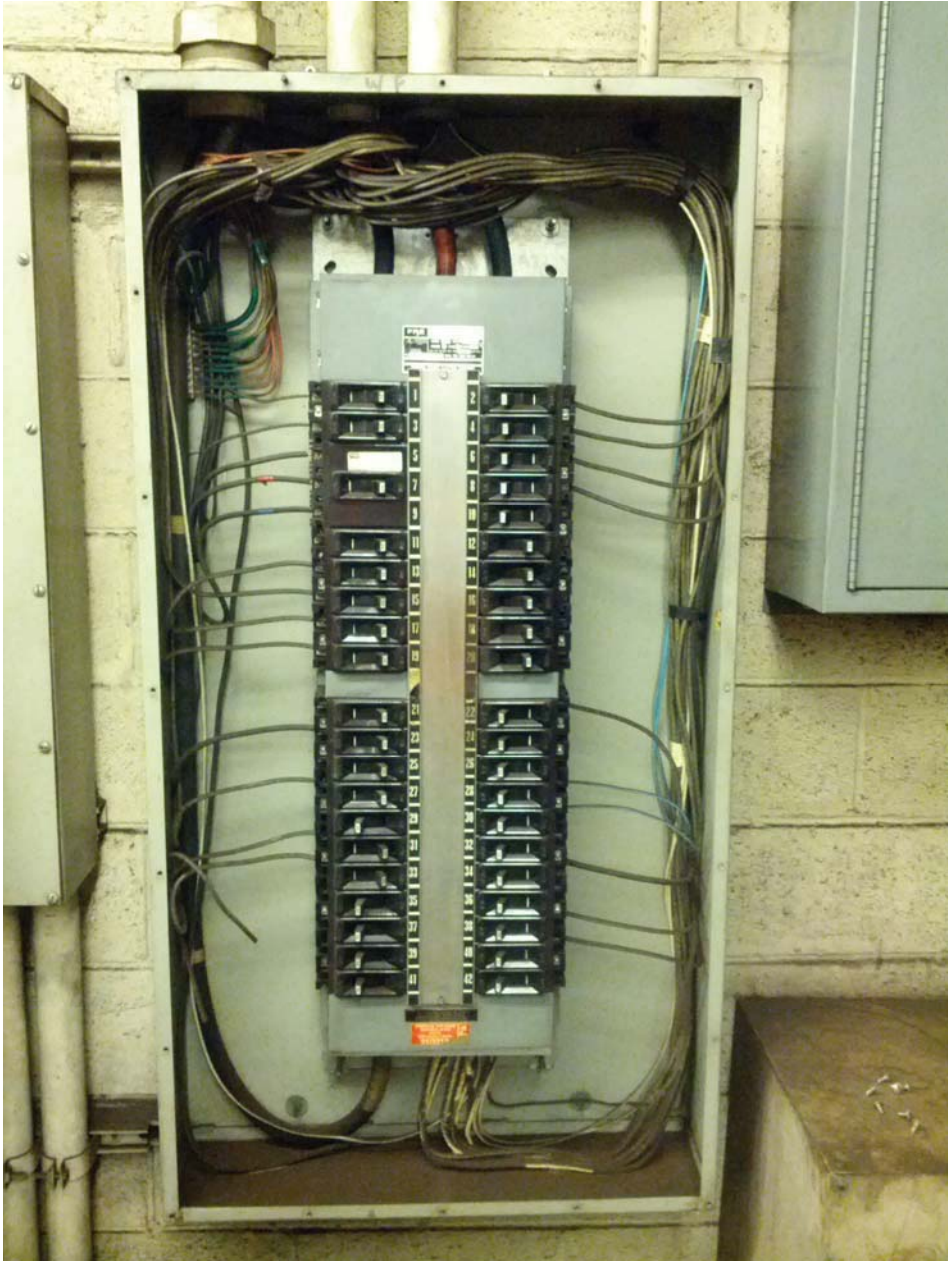
Emergency Power Verification

Check	Task	YES	NO	NA	Comments
<input checked="" type="checkbox"/>	Verification of the electrical plan to the existing schematic if the AFC electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

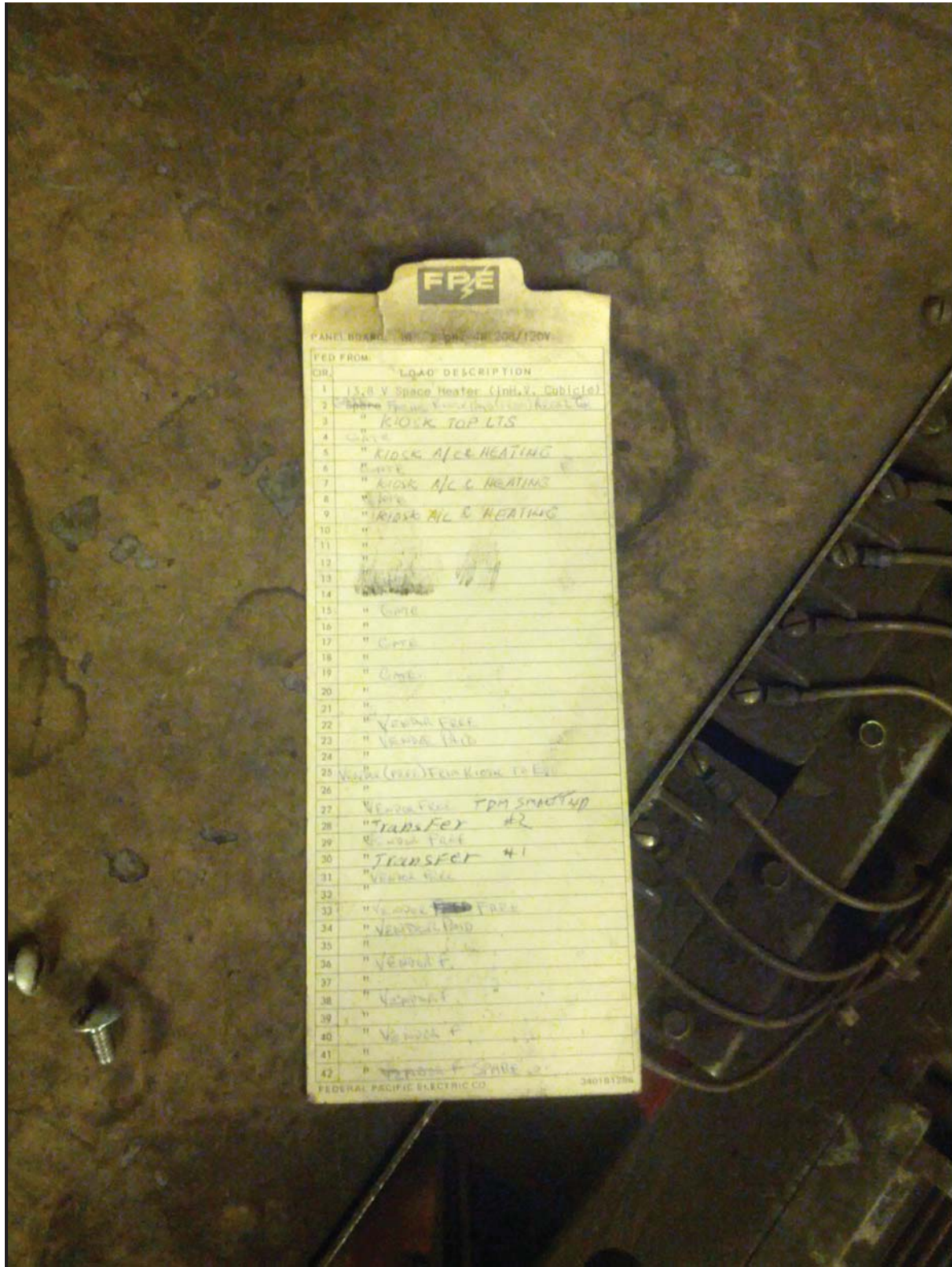
Notes and Discrepancies:

Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:		
Date:	09/23/2014	

L'Enfant Plaza West Photo #1 – AFC Panel (WF) Located on Platform Level Track 1 Wayside (Rm. W104)



L'Enfant Plaza West Photo #2 – AFC Panel (WF) Panel Schedule



FED FROM:	
CIR.	LOAD DESCRIPTION
1	115.0 V Space Heater (Ind. V. Cubicle)
2	Space Heater (Ind. V. Cubicle)
3	KIOSK TOP LTS
4	"
5	KIOSK A/C HEATING
6	"
7	KIOSK A/C HEATING
8	"
9	KIOSK A/C HEATING
10	"
11	"
12	"
13	"
14	"
15	"
16	"
17	"
18	"
19	"
20	"
21	"
22	Ventilator Fan
23	"
24	"
25	Ventilator Fan
26	"
27	Ventilator Fan TPM Standup
28	TRANSFER #2
29	"
30	TRANSFER #1
31	"
32	"
33	Ventilator Fan
34	"
35	"
36	Ventilator
37	"
38	Ventilator
39	"
40	Ventilator
41	"
42	Ventilator

L'Enfant Plaza West Photo #3 – AFC Panel (WF) Top Feed Conduits



L'Enfant Plaza West Photo #4 - AFC Source Switchboard (WB) located in Room #W104 on Platform Level Track 1 Wayside. Source Breaker (Panel "WF") Circuit #7 for AFC Panel (WF).



L'Enfant Plaza West Photo #5 – Source Panel (WE) for Panel WEZ which shares junction box with AFC Panel (WF) and has to be de-energized.



L'Enfant Plaza West Photo #6 – Source Panel (WE) Panel Schedule

PANEL BOARD: WE 3 ph. W: 480/277V

FED FROM:	
CIR.	LOAD DESCRIPTION
1	Mezz. Emer. Ltg.
2	Platform Ancillary Emerg. Ltg.
3	Tunnel Emer. Ltg. N
4	Mezz. Ancillary Emergency Ltg.
5	Tunnel Emer. Ltg. S
6	Panel WEZ
7	Spare
8	Spare
9	
10	Sub Panel WE-1
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	

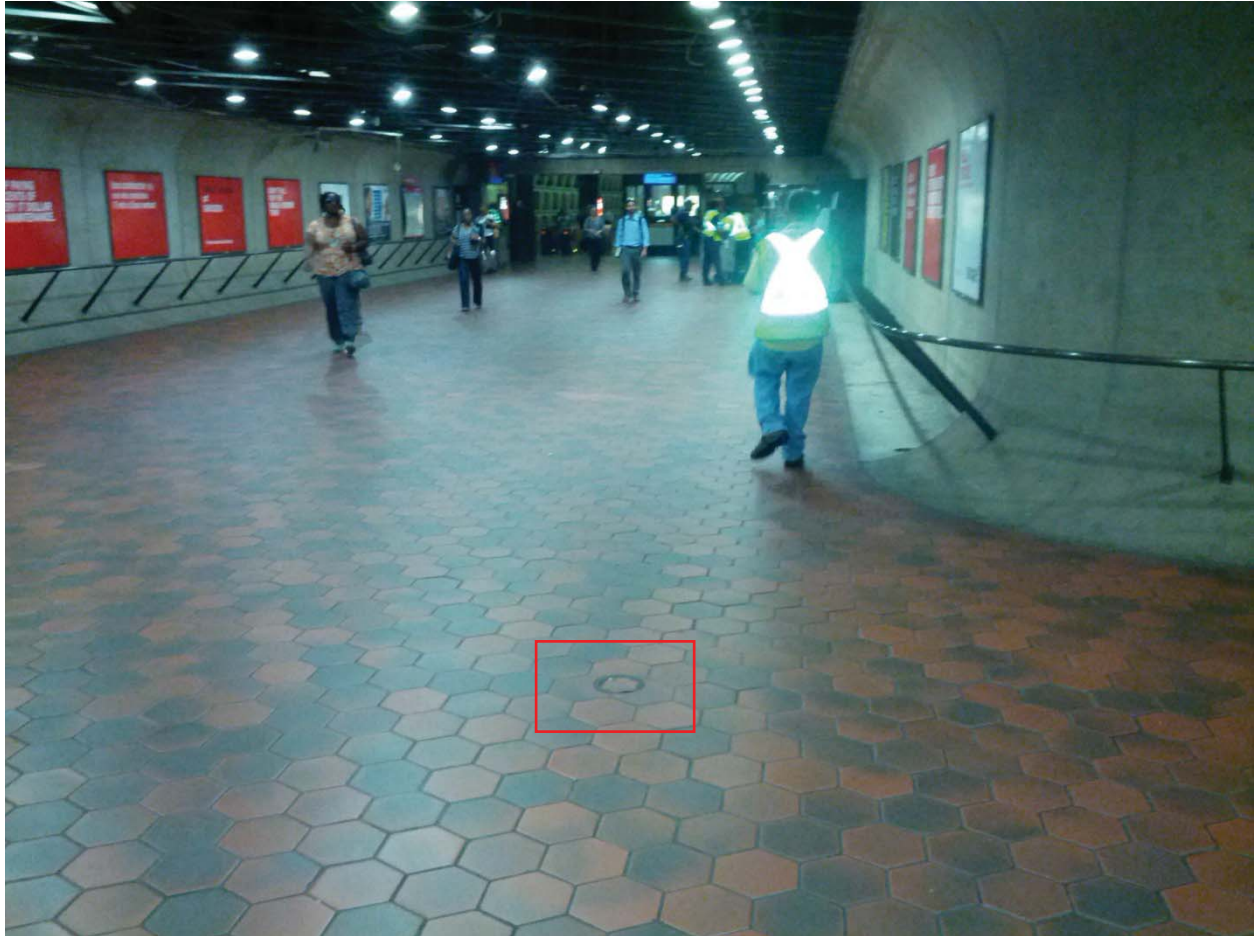
L'Enfant Plaza West Photo #7 –Shared Junction Box for AFC Panel (WF) and Panel (WEZ) where overhead conduits land in same junction box. Platform Level in Rm. W104 Track 1 Wayside.



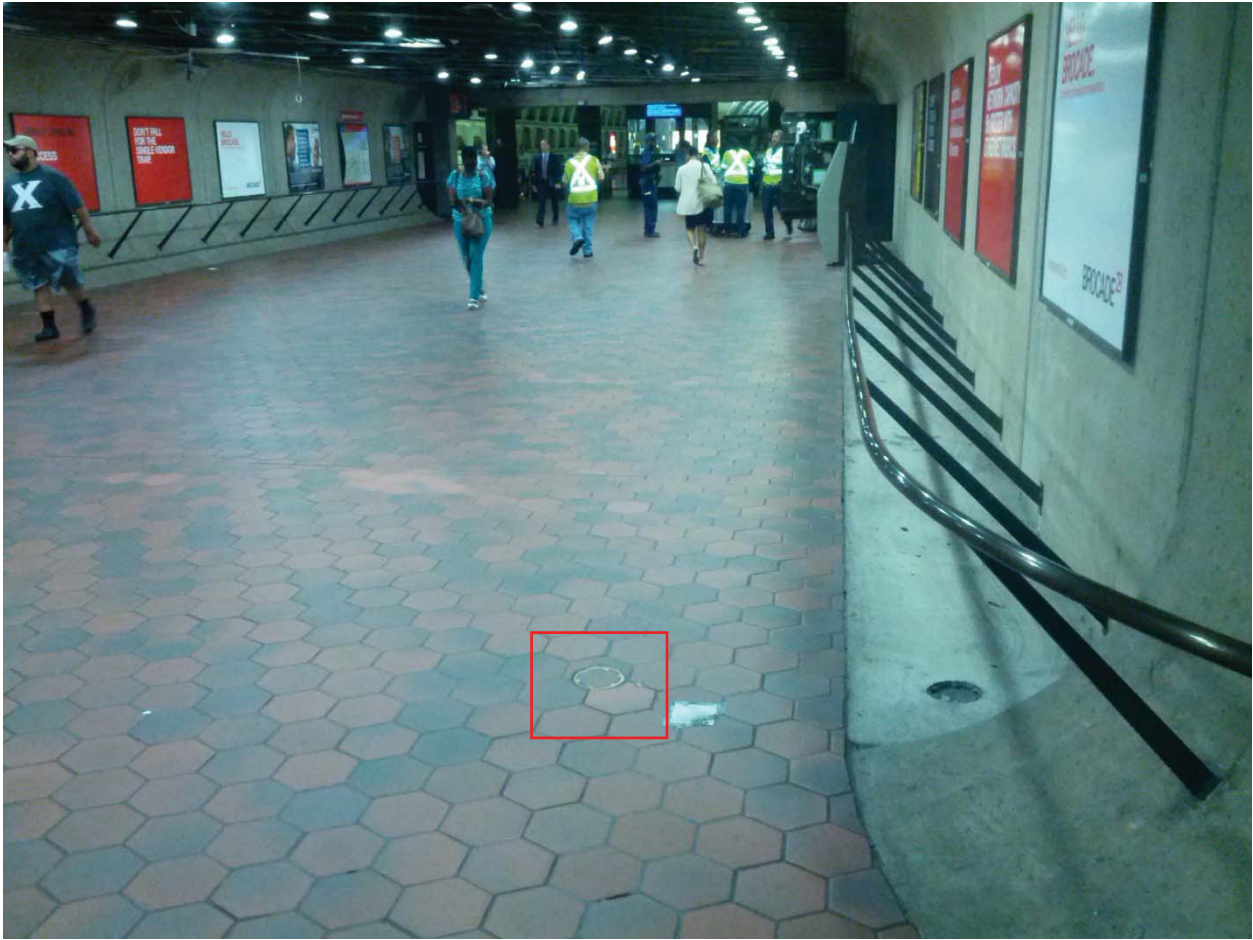
L'Enfant Plaza West Photo #8 –Shared Junction Box for AFC Panel (WF) and Panel (WEZ) where overhead conduits land in same junction box. Platform Level in Rm. W104 Track 1 Wayside.



L'Enfant Plaza West Photo #9 – Handhole located on Mezzanine Level about 100' from Kiosk



L'Enfant Plaza West Photo #10 – Handhole located on Mezzanine Level about 70' from Kiosk and possible location where junction box from platform level below transitions to Mezzanine Level (Metal Plate)



L'Enfant Plaza North Photo #11 – Handhole located on Mezzanine Level about 40' from Kiosk



EXISTING PANEL "EF"												
AMPERES: 400	VOLTS: 120/208		MOUNTING: SURFACE									
MAINS: 400A MLO	PHASE: 3		LOCATION: ROOM E206									
RATING: 10K A/C	WIRE: 4		SECTION: 1 OF 1									
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	NO.	POLE	AMP	KVA	LOAD DESCRIPTION			
EXISTING VENDOR	0.8	20	1	1	A	-	2	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	1	20	0.8	EXISTING VENDOR
EXIST KIOSK LOAD CENTER "KES"	2.9	30	3	5	-	-	C	6	1	20	0.8	EXISTING VENDOR
	2.5	-	-	7	A	-	-	8	1	20	0.8	EXISTING VENDOR
	2.5	-	-	9	-	B	-	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	-	-	C	12	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A	-	-	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	-	-	C	18	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A	-	-	20	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	21	-	B	-	22	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	23	-	-	C	24	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	25	A	-	-	26	-	-	0.0	SPACE
SPARE	0.0	20	1	27	-	B	-	28	-	-	0.0	SPACE
SPARE	0.0	20	1	29	-	-	C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A	-	-	32	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	33	-	B	-	34	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)
SPARE	0.0	20	1	35	-	-	C	36	1	20	0.0	SPARE (KIOSK)
SPARE	0.0	20	1	37	A	-	-	38	1	20	0.0	SPARE
SPARE	0.0	20	1	39	-	B	-	40	1	20	0.0	SPARE
SPARE	0.0	20	1	41	-	-	C	42	1	20	0.0	SPARE
SPARE	0.0	20	1	43	A	-	-	44	1	20	0.8	EXISTING VENDOR

NOTES: 1. CONNECT NEW FEEDER TO EXISTING 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	8.0 x 50%	4.0 KVA
MISC APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	25.5 KVA	TOTAL DEMAND KVA 22.3 KVA
		TOTAL DEMAND AMPS 61.8 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	9.7 KVA	
PHASE B	8.9 KVA	
PHASE C	6.9 KVA	

NOTES: A. EXISTING PANEL "EF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "EB" LOCATED IN AC SWBD. RM. 103, CIRCUIT #7-90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-ED9).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY: EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 1-1 1/2" EMPTY CONDUIT. * 3-1 1/2" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM TOP OF PANEL BY: * 1-3/4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY: * 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

EXISTING PANEL "WF"												
AMPERES: 400	VOLTS: 120/208		MOUNTING: SURFACE									
MAINS: 225A MLO	PHASE: 3		LOCATION: AC SWBD ROOM W104									
RATING: 10K A/C	WIRE: 4		SECTION: 1 OF 1									
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	NO.	POLE	AMP	KVA	LOAD DESCRIPTION			
EXISTING VENDOR	0.8	20	1	1	A	-	2	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	1	20	0.8	EXISTING VENDOR
EXIST KIOSK LOAD CENTER "KES"	2.9	30	3	5	-	-	C	6	1	20	0.8	EXISTING VENDOR
	2.5	-	-	7	A	-	-	8	1	20	0.8	EXISTING VENDOR
	2.5	-	-	9	-	B	-	10	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)
SPARE	0.0	20	1	11	-	-	C	12	1	20	0.0	SPARE (KIOSK)
EXISTING VENDOR	0.8	20	1	13	A	-	-	14	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	17	-	-	C	18	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A	-	-	20	1	20	0.0	SPARE
SPACE	0.0	-	-	21	-	B	-	22	-	-	0.0	SPACE
SPARE	0.0	20	1	23	-	-	C	24	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	25	A	-	-	26	1	20	0.0	SPARE
SPARE	0.0	20	1	27	-	B	-	28	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	29	-	-	C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A	-	-	32	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	33	-	B	-	34	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	35	-	-	C	36	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	37	A	-	-	38	1	20	0.0	SPARE
SPARE	0.0	20	1	39	-	B	-	40	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	41	-	-	C	42	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	43	A	-	-	44	1	20	0.0	SPARE

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	7.2 x 50%	3.6 KVA
MISC APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	24.7 KVA	TOTAL DEMAND KVA 21.9 KVA
		TOTAL DEMAND AMPS 60.7 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	8.1 KVA	
PHASE B	7.3 KVA	
PHASE C	6.5 KVA	

NOTES: A. EXISTING PANEL "WF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "WB" LOCATED IN AC SWBD. RM. W104, CIRCUIT #7-90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-ED9).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
* 1-3/4" C. (WIRING FILL >40%).
* 2- 1 1/2" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. MD	08-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. MD	08-14				
CHECKED	B. DUB	08-14				
APPROVED	N/A					

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

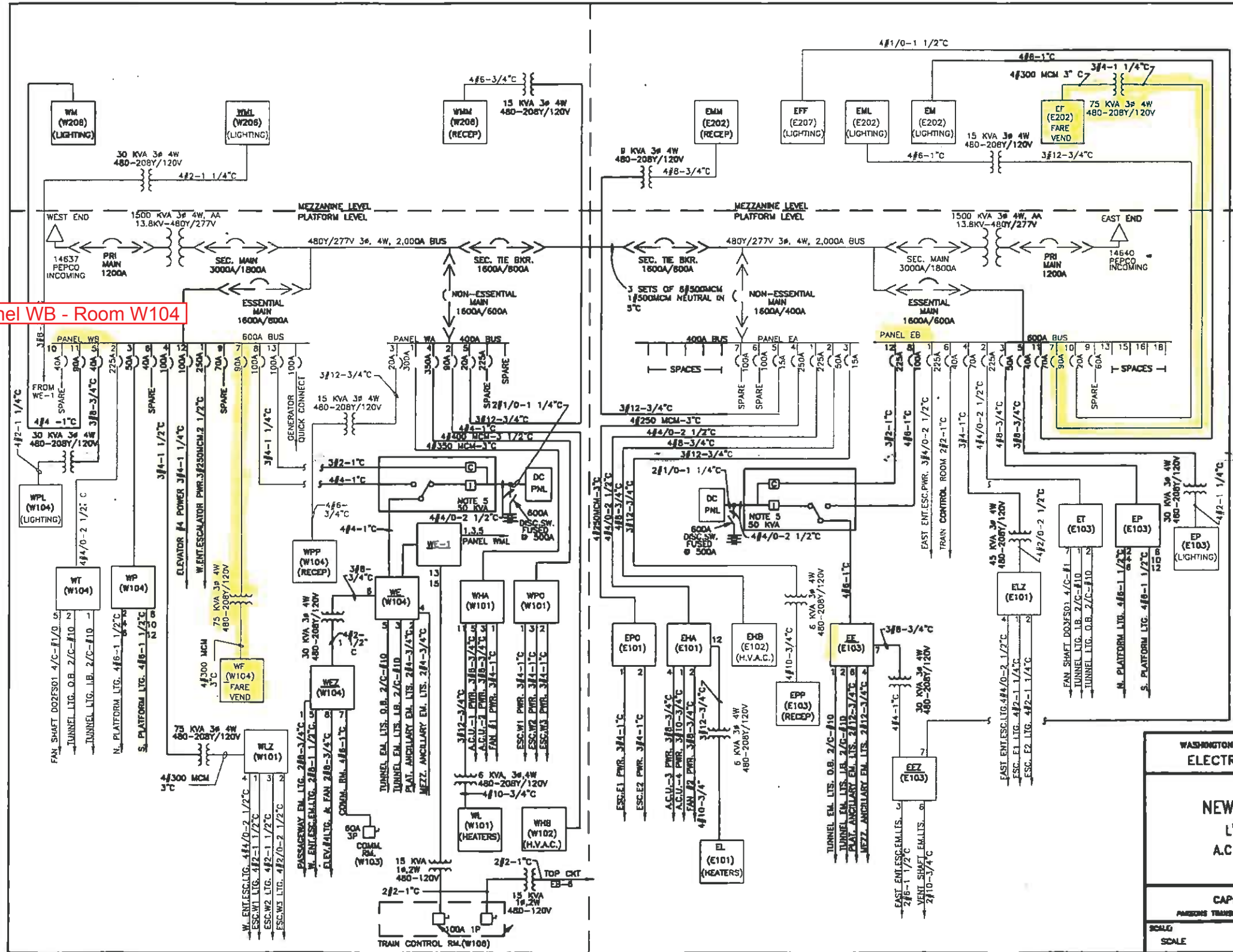
GFP A Gannett Fleming/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
L'ENFANT PLAZA - EAST & WEST
PANEL SCHEDULES

SCALE: NOT TO SCALE
DRAWING NO: D03-E-102

Panel WB - Room W104



- NOTES:**
1. PANEL DESIGNATION
 - PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 - (203)
 - ROOM LOCATION
 - B (CIRCUIT NUMBER)
 - + IF NO CIRCUITS SHOWN
 2. 3-2,1-6 2"
 - CONDUIT SIZE
 - AWG. GROUND WIRE
 - AWG. OR MCM CIRCUIT WIRES
 3. CIRCUIT BREAKERS
 - DRAW OUT ← → 1600A/1200A
 - MOLDED CASE 60A
 - FRAME SIZE
 - TRIP SETTING
 4. 4/C-4/0
 - INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR AND SIZE OF EACH 4/0
 5. RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER CHARGER INVERTER, POWER TRANSFER SWITCH ASSOCIATED BATTERIES AND PANELBOARD.
 6. BREAKERS IN PANELS WA, WEA & EB ARE FUSED WITH CURRENT LIMITERS.
 7. SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC ELECTRIC
 - TYPE OF BREAKERS: OS
 8. UPS MANUFACTURER: INTERNATIONAL POWER MACHINE

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE
L'ENFANT PLAZA STATION
A.C POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
METRO TRANSIT AUTHORITY - CAPITAL TRANSIT CONSULTANTS

SCALE: DRAWING No.
SCALE: MM-D-E09

Pre-Inspection Mezzanine Walkthrough Checklist


Date: 08/28/2014 **Station Name:** L'Enfant Plaza East **Mezzanine #** 057 **Completed By:** Tino Sahoo

Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: EB Source Breaker Name/Number: "Panel EF" (Circuit #7) Electrical AFC Panel Name/Number: EF	103 103 E206	Room 103 is AC SWBD. RM. Located Wayside on Track 1 on Platform level. Room E206 is on the Mezzanine Level.
<input checked="" type="checkbox"/>	Is there a disconnect switch connected to the AFC electrical power panel? Low or High voltage SMNT/POWR escorts required?	Disconnect Name/Number: N/A SMNT/POWR escorts: HIGH Voltage		
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to de-energize	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. NO		
<input checked="" type="checkbox"/>	Identify the assumed pathway of the duct, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		There are no special escorts requirements.
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Support for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		No handholes on mezzanine level; straight run from AFC Panel (EF) to Kiosk with 90 or 45 degree bend.

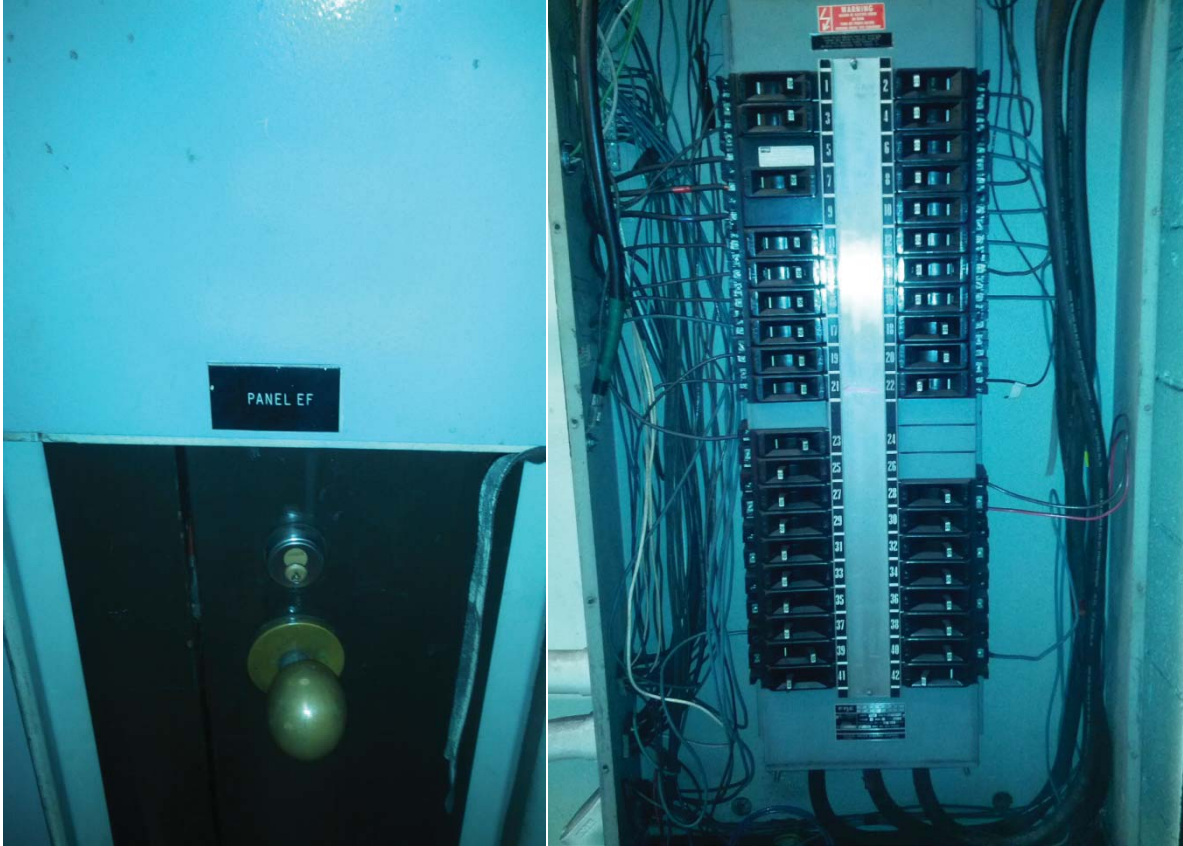
Emergency Power Verification

Check	Task	YES	NO	NA	Comments
<input checked="" type="checkbox"/>	Verification of the electrical plan to the existing schematic if the AFC electrical panel is connected to a Automatic Transfer Switch (ATS) / emergency power source	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

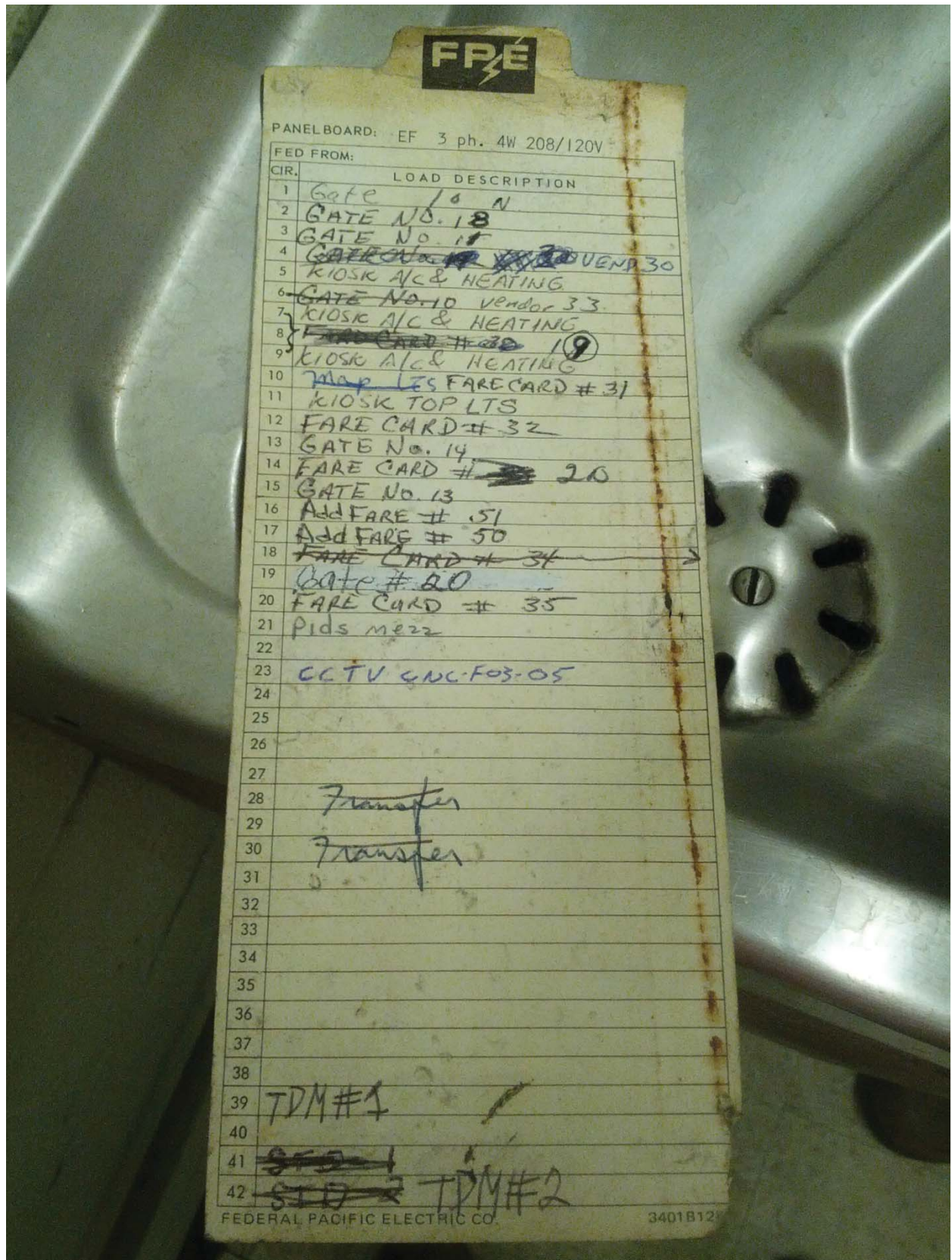
Notes and Discrepancies:

Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:		
Date:	09/23/2014	

L'Enfant Plaza East Photo #1 – AFC Panel (EF) - Room E206 (Mezzanine Level)



L'Enfant Plaza East Photo #2 – AFC Panel (EF) Panel Schedule



PANEL BOARD: EF 3 ph. 4W 208/120V

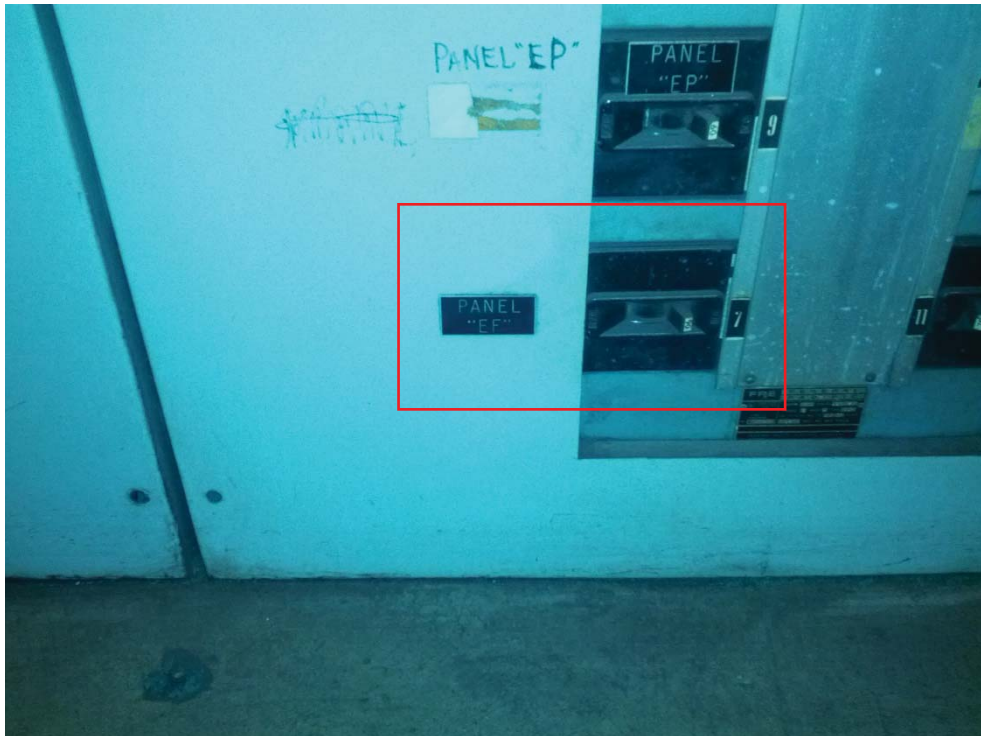
FED FROM:

CIR.	LOAD DESCRIPTION
1	Gate 10 N
2	GATE NO. 18
3	GATE NO. 17
4	GATE NO. 18 VENDOR 30
5	KIOSK A/C & HEATING
6	GATE NO. 10 Vendor 33
7	KIOSK A/C & HEATING
8	FARE CARD # 20 19
9	KIOSK A/C & HEATING
10	Map LES FARE CARD # 31
11	KIOSK TOP LTS
12	FARE CARD # 32
13	GATE No. 14
14	FARE CARD # 31 20
15	GATE No. 13
16	ADD FARE # 51
17	ADD FARE # 50
18	FARE CARD # 34
19	Gate # 20
20	FARE CARD # 35
21	Pids mezz
22	
23	CCTV GNC-F03-05
24	
25	
26	
27	
28	Transfer
29	
30	Transfer
31	
32	
33	
34	
35	
36	
37	
38	
39	TDM #1
40	
41	STD #1
42	STD #2 TDM #2

L'Enfant Plaza East Photo #3 – AFC Panel (EF) – Bottom Trough (NOT SHARED) and Walker Duct Transition



L'Enfant Plaza East Photo #4 –AFC Source Switchboard (EB) located in Room #103 on Platform Level Track 1 Wayside. Source Breaker (Panel “EF”) Circuit #7 for AFC Panel (EB).



L'Enfant Plaza East Photo #5 – AFC Panel (EF) - Room E206 (Mezzanine Level)



EXISTING PANEL "EF"												
AMPERES: 400	VOLTS: 120/208		MOUNTING: SURFACE									
MAINS: 400A MLO	PHASE: 3		LOCATION: ROOM E206									
RATING: 10K A/C	WIRE: 4		SECTION: 1 OF 1									
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	NO.	POLE	AMP	KVA	LOAD DESCRIPTION			
EXISTING VENDOR	0.8	20	1	1	A	-	2	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	1	20	0.8	EXISTING VENDOR
EXIST KIOSK LOAD CENTER "KES"	2.9	30	3	5	-	-	C	6	1	20	0.8	EXISTING VENDOR
	2.5	-	-	7	A	-	8	1	20	0.8	EXISTING VENDOR	
	2.5	-	-	9	-	B	-	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	-	-	C	12	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A	-	14	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	-	-	C	18	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A	-	20	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	21	-	B	-	22	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	23	-	-	C	24	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	25	A	-	26	-	-	0.0	SPACE	
SPARE	0.0	20	1	27	-	B	-	28	-	-	0.0	SPACE
SPARE	0.0	20	1	29	-	-	C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A	-	32	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	33	-	B	-	34	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)
SPARE	0.0	20	1	35	-	-	C	36	1	20	0.0	SPARE (KIOSK)
SPARE	0.0	20	1	37	A	-	38	1	20	0.0	SPARE	
SPARE	0.0	20	1	39	-	B	-	40	1	20	0.0	SPARE
SPARE	0.0	20	1	41	-	-	C	42	1	20	0.0	SPARE
SPARE	0.0	20	1	43	A	-	44	1	20	0.8	EXISTING VENDOR	

NOTES: 1. CONNECT NEW FEEDER TO EXISTING 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	8.0 x 50%	4.0 KVA
MISC APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	25.5 KVA	TOTAL DEMAND KVA 22.3 KVA
		TOTAL DEMAND AMPS 61.8 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	9.7 KVA
PHASE B	8.9 KVA
PHASE C	6.9 KVA

NOTES: A. EXISTING PANEL "EF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "EB" LOCATED IN AC SWBD. RM. 103, CIRCUIT #7-90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-ED9).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1-1 1/2" EMPTY CONDUIT.
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1- 3/4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
* 1- 4" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 3-1 1/2" C. (WIRING FILL >40%).
* 1-3/4" C. (WIRING FILL >40%).

EXISTING PANEL "WF"												
AMPERES: 400	VOLTS: 120/208		MOUNTING: SURFACE									
MAINS: 225A MLO	PHASE: 3		LOCATION: AC SWBD ROOM W104									
RATING: 10K A/C	WIRE: 4		SECTION: 1 OF 1									
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	NO.	POLE	AMP	KVA	LOAD DESCRIPTION			
EXISTING VENDOR	0.8	20	1	1	A	-	2	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	1	20	0.8	EXISTING VENDOR
EXIST KIOSK LOAD CENTER "KES"	2.9	30	3	5	-	-	C	6	1	20	0.8	EXISTING VENDOR
	2.5	-	-	7	A	-	8	1	20	0.8	EXISTING VENDOR	
	2.5	-	-	9	-	B	-	10	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)
SPARE	0.0	20	1	11	-	-	C	12	1	20	0.0	SPARE (KIOSK)
EXISTING VENDOR	0.8	20	1	13	A	-	14	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	17	-	-	C	18	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A	-	20	1	20	0.0	SPARE	
SPACE	0.0	-	-	21	-	B	-	22	-	-	0.0	SPACE
SPARE	0.0	20	1	23	-	-	C	24	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	25	A	-	26	1	20	0.0	SPARE	
SPARE	0.0	20	1	27	-	B	-	28	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	29	-	-	C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	31	A	-	32	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	33	-	B	-	34	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	35	-	-	C	36	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	37	A	-	38	1	20	0.0	SPARE	
SPARE	0.0	20	1	39	-	B	-	40	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	41	-	-	C	42	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	43	A	-	44	1	20	0.0	SPARE	

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	7.2 x 50%	3.6 KVA
MISC APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	24.7 KVA	TOTAL DEMAND KVA 21.9 KVA
		TOTAL DEMAND AMPS 60.7 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	8.1 KVA
PHASE B	7.3 KVA
PHASE C	8.5 KVA

NOTES: A. EXISTING PANEL "WF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "WB" LOCATED IN AC SWBD. RM. W104, CIRCUIT #7-90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-ED9).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
* 1-3/4" C. (WIRING FILL >40%).
* 2- 1 1/2" C. (WIRING FILL >40%).

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED	C. MD	08-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. MD	08-14				
CHECKED	B. DUB	08-14				
APPROVED	N/A					

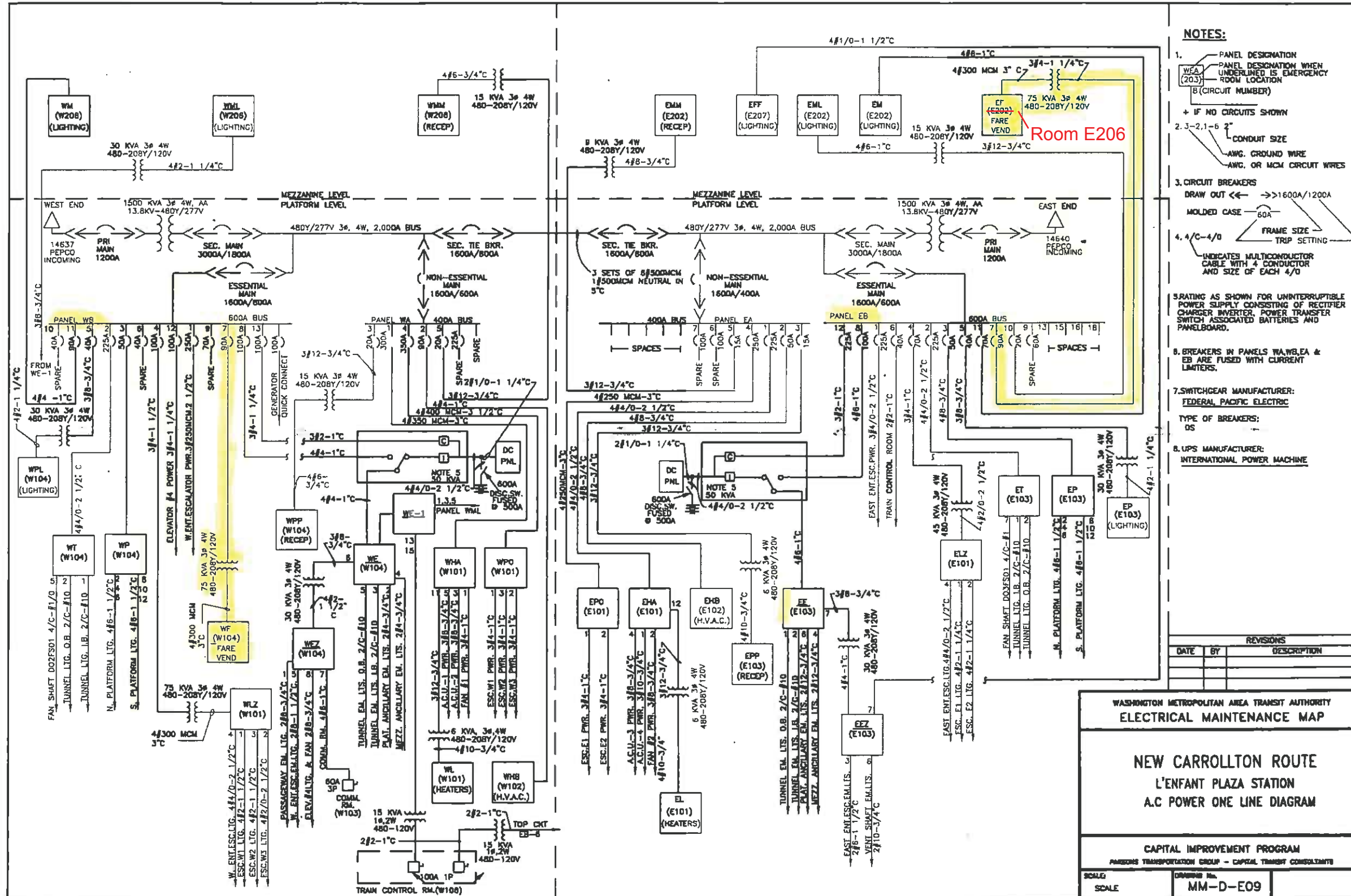
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

GFP A Gannett Fleming/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
L'ENFANT PLAZA - EAST & WEST
PANEL SCHEDULES

SCALE: NOT TO SCALE
DRAWING NO. D03-E-102



- NOTES:**
1. PANEL DESIGNATION
 PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 (203)
 ROOM LOCATION
 (B) (CIRCUIT NUMBER)
 + IF NO CIRCUITS SHOWN
 2. 3-2,1-6 2"
 CONDUIT SIZE
 -AWG. GROUND WIRE
 -AWG. OR MCM CIRCUIT WIRES
 3. CIRCUIT BREAKERS
 DRAW OUT ← → 1600A/1200A
 MOLDED CASE 60A
 FRAME SIZE
 TRIP SETTING
 4. 4/C-4/0
 INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR AND SIZE OF EACH 4/0
 5. SPATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER CHARGER INVERTER, POWER TRANSFER SWITCH ASSOCIATED BATTERIES AND PANELBOARD.
 6. BREAKERS IN PANELS WA, WEA & EB ARE FUSED WITH CURRENT LIMITERS.
 7. SWITCHGEAR MANUFACTURER:
 FEDERAL PACIFIC ELECTRIC
 TYPE OF BREAKERS:
 OS
 8. UPS MANUFACTURER:
 INTERNATIONAL POWER MACHINE

REVISIONS		
DATE	BY	DESCRIPTION


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**NEW CARROLLTON ROUTE
 L'ENFANT PLAZA STATION
 A.C. POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
 METRO TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: _____ DRAWING No. **MM-D-E09**

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014	Station Name: Federal Center SW - D04	Mezzanine #: 058	Completed By: Tino Sahoo	
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: WGB (REAR) Source Breaker Name/Number: "D04-WGB-04" (Breaker #4) Electrical AFC Panel Name/Number: F	Rm 303 Rm 303 Rm 206	Room 303 (AC SWBD room) Track 1 wayside.
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: SMNT/POWR escorts: HIGH Voltage		
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. NO		
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level? YES		All conduit/ducts on one level. Power run from Kiosk to AFC Panel is approx. 164ft.
Emergency Power Verification				
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: Panel KE Source Breaker Name/Number: Breaker #4 Panel Name/Number: Emergency Power to Faregates	Kiosk Kiosk	
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	10/28/2014			

Pictures 1&2: D04 Federal Center SW – Handholes and manhole in mezzanine



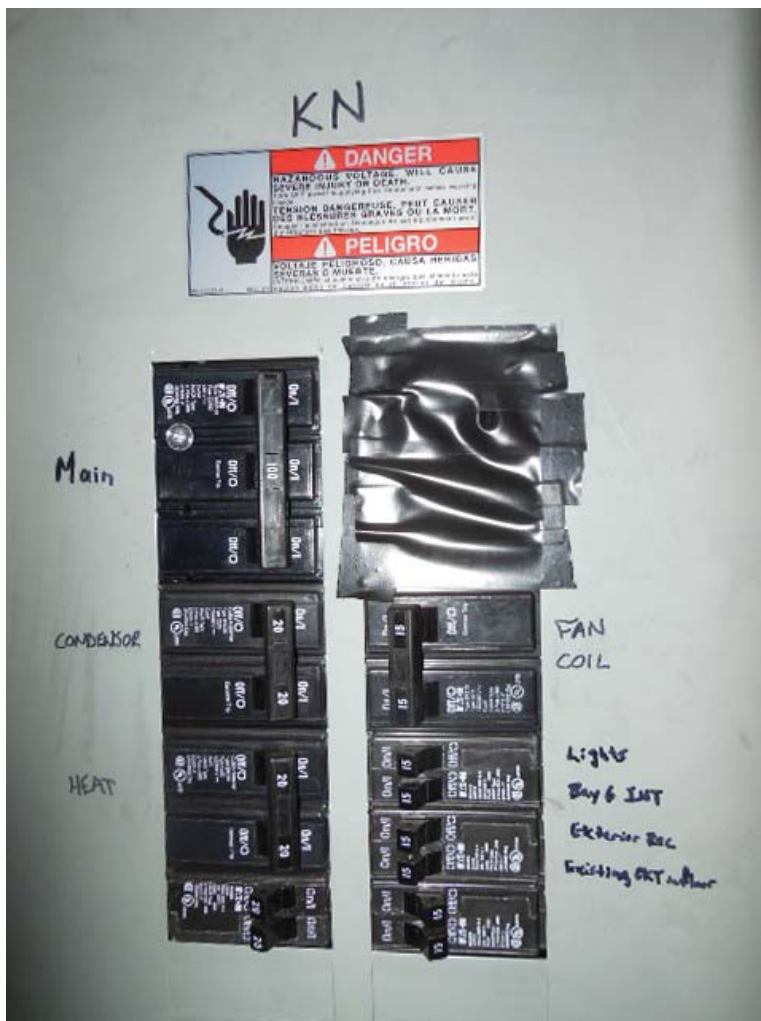
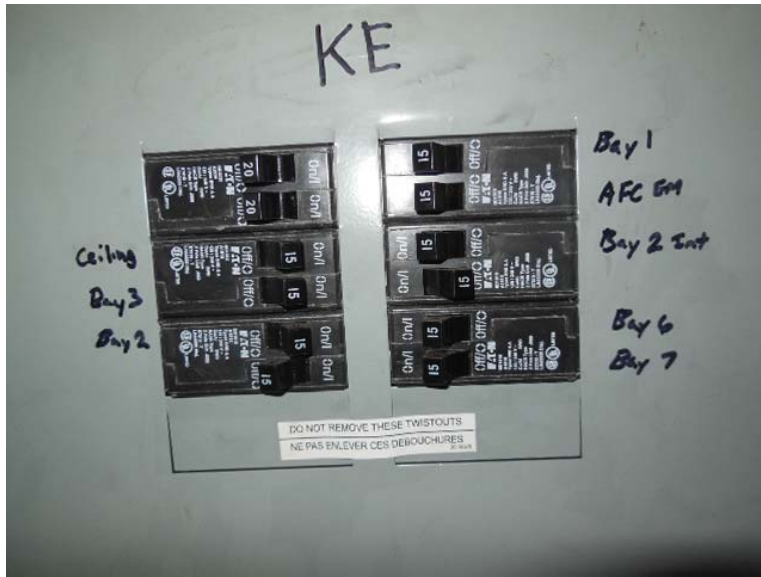
Pictures 3&4: D04 Federal Center SW – Manholes in maintenance corridor



Picture 5: D04 Federal Center SW – Ducts & conduits running up wall in maintenance corridor



Pictures 6&7: D04 Federal Center SW – Emergency Panels KE & KN in Kiosk



Picture 8: D04 Federal Center SW – AFC Panel F in room 206



Picture 9: D04 Federal Center SW – AFC Panel F in room 206, Bottom ducts & conduits



Picture 10: D04 Federal Center SW – AFC Panel F in room 206, Panel schedule

MACHINE WESTINGHOUSE REMOVED/WIRE CIRCUIT DIRECTORY	
1 GATE NO. 15 12X 11N	2 GATE NO. 17 10X
3 FARE CARD NO. 32	4 FARE CARD NO. 33
5 GATE NO. 10 20N	6 GATE NO. 11 20X 19N
7 GATE NO. 13 5X 11N	8 GATE NO. 12 19X 19N
9 MAPS GATE 14 FARE AREA 11X	10 Add FARE NO. 30
11 GATE NO. 14 6X	12 "TDM" #1 51
13 Fare GATE # 11	14 TDM #1 51
15 Fare Card # 35	16 TDM #1 51
17 1 MAP LT 53	18
19 3 KEOSK J LT	20 AC KEOSK
21 NEW FARE CARD 2/11/91	22
23	24 HERE PIDS
25	26
27	28
29	30
31	32

Picture 11: D04 Federal Center SW – SWBD circuit D04-WGB-04 Panel F in room C203



NOTES:

ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY MARYA A. [REDACTED]

TO: 12 MACHINE IDENTIFY IS DERIVED IN THIS DRAWING.

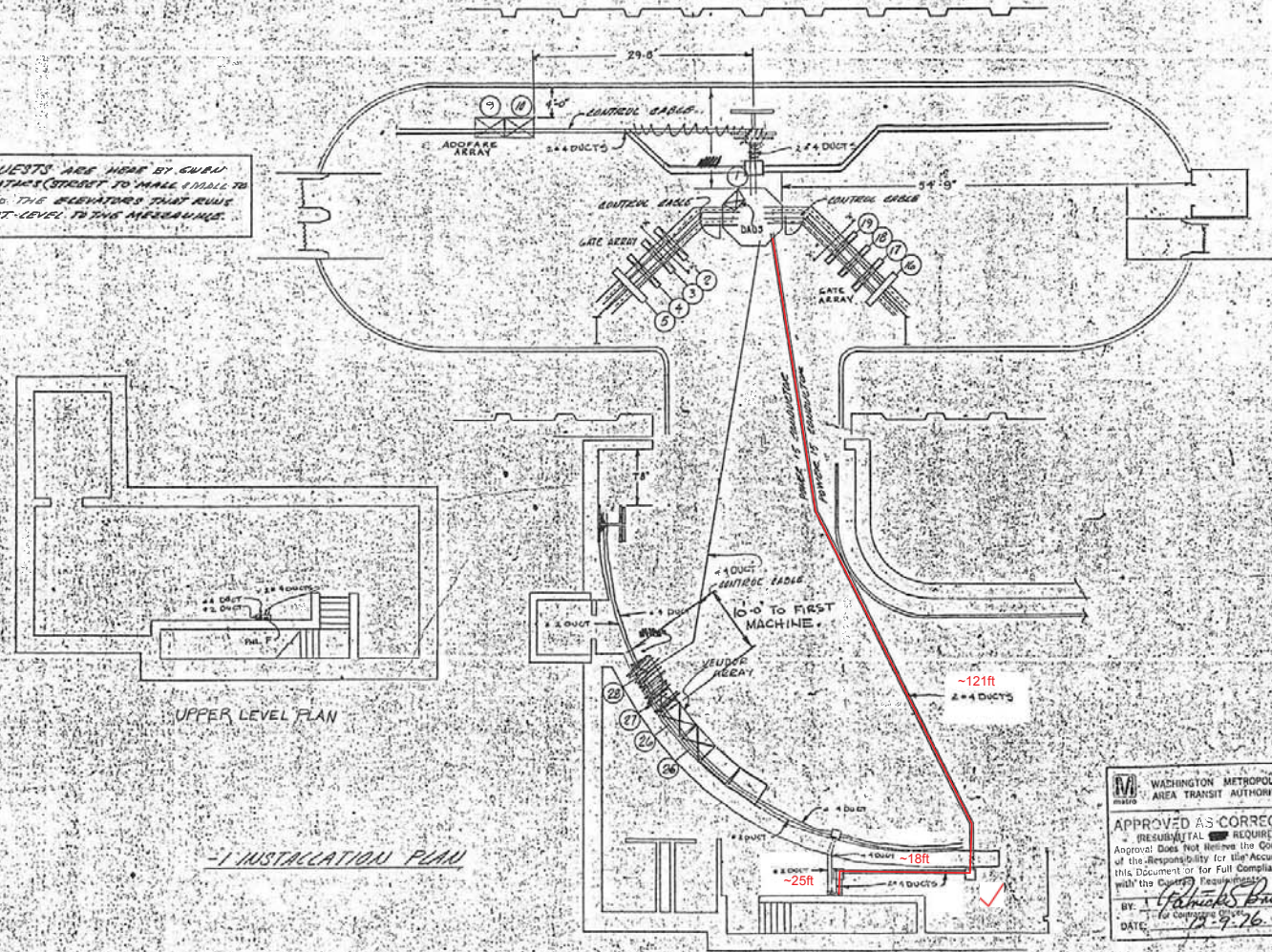
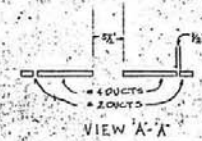
THE MAXIMUM BOREHOLE MACHINE IDENTIFY IS REFERENCED ON THIS DRAWING BY THE LETTER 'X' DRAWN THRU THE MACHINE IDENTIFY.

FOR AS BUILT CONDITIONS SEE SHEET # [REDACTED] FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MECHANISM.

PRIORITY REQUESTS ARE MADE BY SUBU FOR 80% FACILITIES STREET TO MAKE A DALL TO MECHANISM AND THE ELEVATORS THAT RUN FROM THE STREET LEVEL TO THE MECHANISM.

REVISIONS		
DESCRIPTION	DATE	APV

Pre-Inspection Field Verification 10/28/2014



UPPER LEVEL PLAN

-1 INSTALLATION PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 APPROVED AS CORRECTED
 (RESUBMITAL REQUIRED)
 Approval Does Not Relieve the Contractor of the Responsibility for the Accuracy of this Document or for Full Compliance with the Contract Requirements.
 BY: [Signature]
 DATE: 7-9-76

CP 23007A-116-3-0
 WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

CONTRACT NUMBER	CUBIC WESTERN DATA
DESIGN	FEDERAL AGENCE SV
STATION	STATION
MACHINE	AFB MACHINE
DATE	8-6-03B6

Pre-Inspection Field Verification 10/28/2014

EXISTING PANEL "F"												
AMPERES: 225			VOLTS: 120/208			MOUNTING: SURFACE						
MAINS: 200AMCB			PHASE: 3			LOCATION: MECH EQUIPMENT ROOM C208						
RATING: 10KAC			WIRE: 4			SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	CKT. NO.	CKT. NO.	CKT. NO.	CKT. AMP	KVA	LOAD DESCRIPTION			
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	1	A	2	-	0.0	SPACE			
SPARE (KIOSK)	0.0	20	1	3	B	4	-	0.0	SPACE			
SPACE	0.0	-	-	5	-	C	6	-	SPACE			
SPACE	0.0	-	-	7	A	8	-	0.0	SPACE			
SPACE	0.0	-	-	9	-	B	10	-	SPACE			
SPACE	0.0	-	-	11	-	C	12	-	SPACE			
SPACE	0.0	-	-	13	A	14	-	0.0	SPACE			
SPACE	0.0	-	-	15	-	B	16	-	SPACE			
SPACE	0.0	-	-	17	-	C	18	-	SPACE			
SPACE	0.0	20	1	19	A	20	1	20	EXISTING VENDOR			
SPACE	0.0	-	-	21	-	B	22	1	20	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	23	-	C	24	1	20	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	25	A	26	1	20	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	27	-	B	28	1	20	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	29	-	C	30	1	20	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	31	A	32	1	20	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	33	-	B	34	1	20	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	35	-	C	36	1	20	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	37	A	38	3	30	EXIST. KIOSK LOAD CENTER "KES"			
EXISTING VENDOR	0.8	20	1	39	-	B	40	-	2.5			
EXISTING VENDOR	0.8	20	1	41	-	C	42	-	2.5			

NOTES: 1. PROVIDE 2-NEW 20A, 1P CB IN EXISTING AVAILABLE SPACE, CONNECT NEW FEEDER TO THESE BREAKERS (NEW CB'S SHALL MATCH EXISTING CB'S).
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	6.4 x 50%	3.2 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	23.9 KVA	TOTAL DEMAND KVA 21.5 KVA
		TOTAL DEMAND AMPS 59.8 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	8.5 KVA	
PHASE B	7.3 KVA	
PHASE C	8.1 KVA	

D04-WGB-04 (Breaker #4)

WGB (Rear)

NOTES: A. THE EXISTING PANEL "F" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWBD "WGB" LOCATED IN AC SWBD BATTERY RM 303, CIRCUIT #4-250/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E10).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
• 2-Ø 1/2" x 1 1/2" FLOOR DUCT W/2" C. (1-2" C. TO TRANSFORMER (WIRING >40Ø)(1-2" C. (WIRING >30Ø).
• 4-3/4" C. (WIRING FILL >40Ø).
EXISTING WIRING FED FROM TOP OF PANEL BY:
• 1-1/2" WIRING.

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED <u>C. MID</u>	DATE <u>08-14</u>	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
DRAWN <u>C. MID</u>	DATE <u>08-14</u>				
CHECKED <u>A. MID</u>	DATE <u>08-14</u>				
APPROVED <u>MA</u>	DATE				

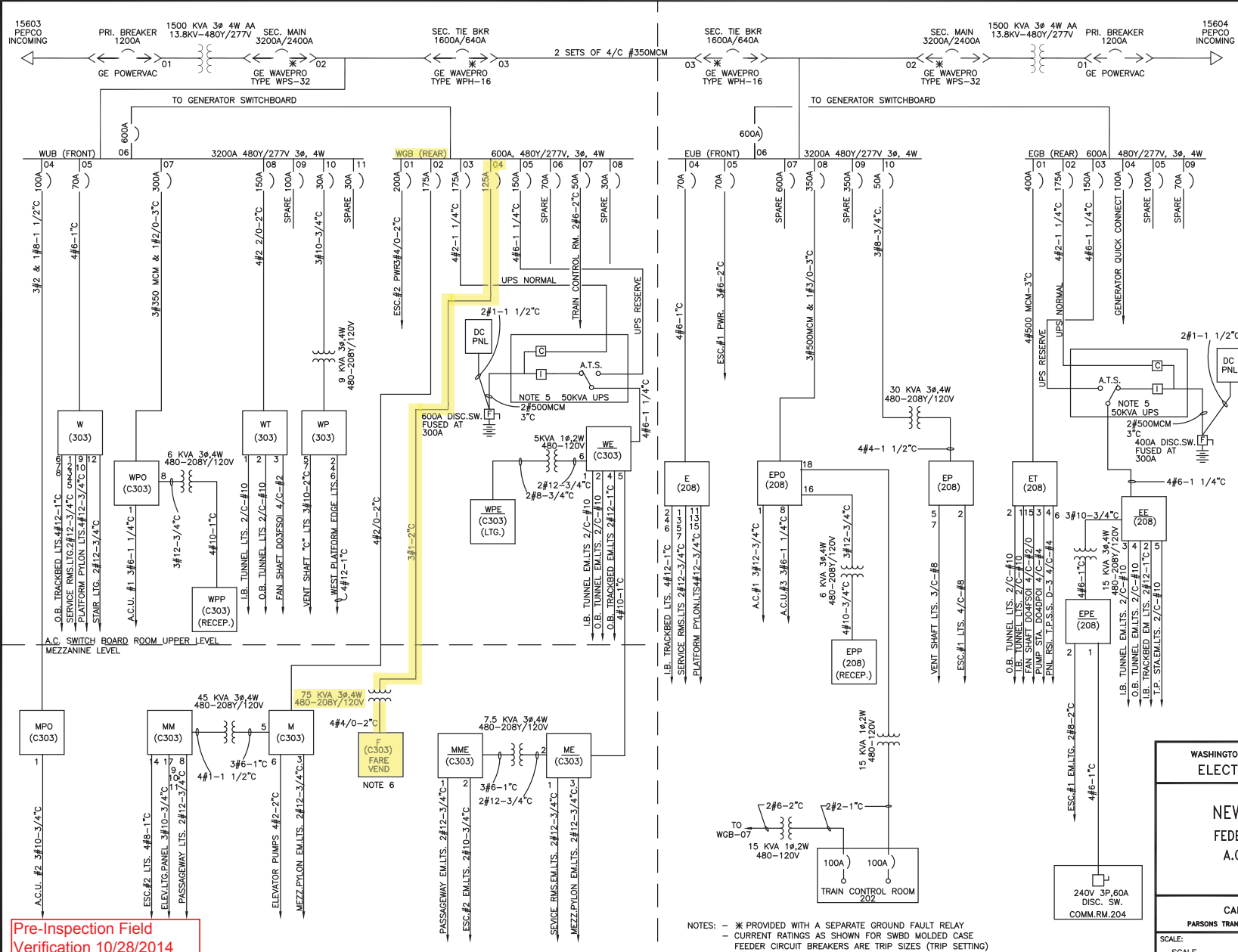
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

GFP A Grenfell Fleming/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRO RAIL STATIONS
FEDERAL CENTER PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO. D04-E-102



- NOTES:
1. PANEL DESIGNATION
WEA (205)
8 (CIRCUIT NUMBER)
 2. 3#2+1#6G-2" CONDUIT SIZE
EQUIPMENT GROUNDING
AWG OR KCMIL CIRCUIT WIRES
 3. CIRCUIT BREAKERS
DRAW OUT ← 1600A/1200A
MOLDED CASE
FRAME SIZE
CONTINUOUS CURRENT
SETTING
 4. 4/C-4/0 INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR AND SIZE OF EACH 4/0
 5. RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER/CHARGER INVERTER, POWER TRANSFER SWITCH ASSOCIATED BATTERIES AND PANELBOARD.
 6. PANEL FOR FARE COLLECTION EQUIPMENT.
 7. ATS. -AUTOMATIC TRANSFER SWITCH
C -CHARGER
I -INVERTER
 8. UPS MANUFACTURER: INTERNATIONAL POWER MACHINE
 9. TRANSFORMER MANUFACTURER: WESTINGHOUSE
 10. SWITCHGEAR MANUFACTURER: GE INDUSTRIAL SYSTEMS
 11. MAIN SECONDARY & TIE POWER CIRCUIT BREAKERS ARE GE TYPE WAVEPRO WITH MICROVERSATRP (LSI) ELECTRICALLY OPERATED & EQUIPPED WITH SEPARATE GROUND FAULT RELAYS.
 12. SWITCHBOARD FEEDER CIRCUIT BREAKERS ARE GE SPECTRA RMS TYPE SGLB WITH MICROVERSATRP (LSIG).
 13. MOLDED CASE BREAKER NAME PLATE:
STA. - BREAKER POSITION
D04-WUB-10 WEST UTILITY BOARD #10
PANEL WP FEEDER NAME
SGL600/150AS/60RP
TYPE - FRAME SIZE
RATING PLUG
SENSOR SIZE

REVISIONS

DATE	BY	DESCRIPTION
12-20-06	TN	NEW REPLACED SWGRS & SWBDS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

NEW CARROLLTON ROUTE
FEDERAL CENTER STATION (D04)
A.C. POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: DRAWING No. MM-D-E10


Pre-Inspection Field Verification 10/28/2014

DESIGNER: _____ CHECKED: _____ DATE: _____

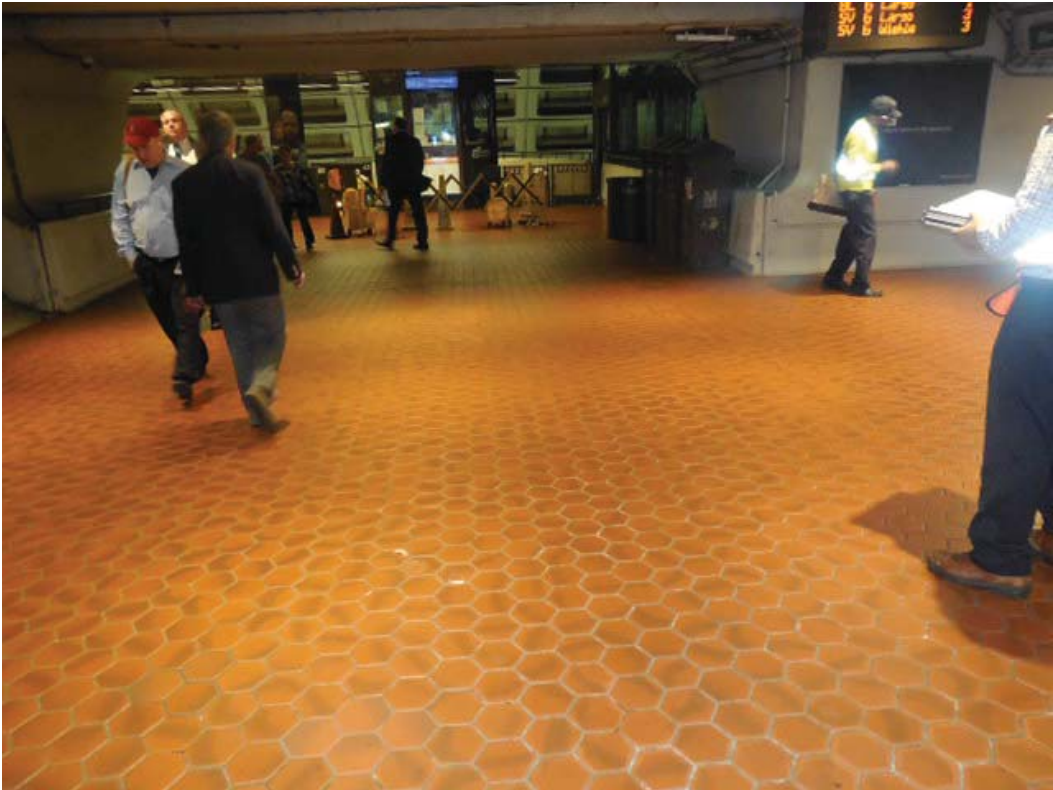
DRAWN: _____ APPROVED: _____ DATE: _____

NOTES: - * PROVIDED WITH A SEPARATE GROUND FAULT RELAY
- CURRENT RATINGS AS SHOWN FOR SWBD MOLDED CASE FEEDER CIRCUIT BREAKERS ARE TRIP SIZES (TRIP SETTING)

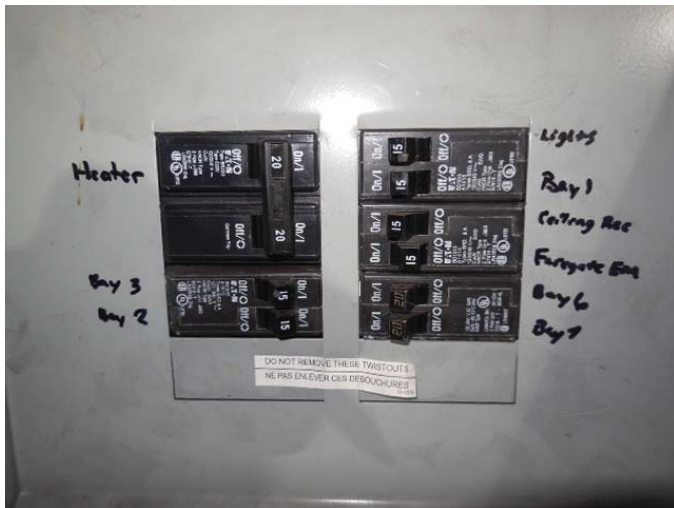
Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014		Station Name: Capitol South - D05		Mezzanine #: 059		Completed By: Tino Sahoo	
Check	Task	Equipment			Room ID	Notes	
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number:	WGB		Rm 309	Room 309 (AC SWBD Battery Room) is located wayside of track 1.	
		Source Breaker Name/Number:	"D05-WGB-05" (Breaker #5)		Rm 309		
		Electrical AFC Panel Name/Number:	F		Rm C201		
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number:					
		SMNT/POWR escorts:	HIGH and LOW Voltage				
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes.	YES (see notes)				Panels MPO and ME share raceway with AFC Panel F.
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input type="checkbox"/>	COMM / IT <input checked="" type="checkbox"/>	ELES <input type="checkbox"/>		Access required to room C206 (Verizon room) to verify if handhole/J box is located within.	
		RAIL <input type="checkbox"/>	CMNT <input type="checkbox"/>				
		Other Access/Support:					
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access?	NO				No handholes found at mezzanine floor. Transition from mezzanine level described as very difficult.
		Identified Conduit/Duct Transition to mezzanine level?	YES				
Emergency Power Verification							
Check	Task	Equipment			Room ID	Notes	
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:					
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number:	MME		Rm C201	Panel EM (Kiosk Emergency Panel), Breaker #8 will de-energize emergency power to faregates. Power run from Kiosk to AFC Panel is 90'.	
		Source Breaker Name/Number:	Breaker #12, 14		Rm C201		
		Panel Name/Number:	EM Kiosk Panel		Kiosk		
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:		Tino Sahoo					
Signature:							
Date:		10/28/2014					

Pictures 1&2: D05 Capitol South – No handholes in mezzanine



Pictures 3-5: D05 Capitol South – Emergency panel EM in Kiosk



Pictures 6-8: D05 Capitol South – Emergency panel NM in Kiosk



Picture 9: D05 Capitol South – AFC Panel F in room C201



Picture 10: D05 Capitol South – AFC Panel F in room C201



Picture 11: D05 Capitol South – AFC Panel F in room C201, panel schedule

**WESTINGHOUSE
CIRCUIT DIRECTORY**

1 FARE CARD 35	2 GATE NO. 10 end
3 FARE CARD NO. 37	4 " " 16
5 " " 33	6 " " 14
7 " " 32	8 " " 15
9 " " 31	10 " " 13
11 " " 30	12 " " 12
13 Transfer	14 " " 11
15 Transfer	16 Add FARE No. 50
17 NEW FARE GATE 10	18 " " 51
19 ATM CC BANK	20 Steam Cleaner Rec.
21 SMART CARD Mach.	22 " " "
23 SMART CARD Mech.	24
25	26
27	28
29	30
31	31
32	32
33	33
34	34
35	35
36	36
37	37
	38
	40

Handwritten notes on the left side of the page:

- Panel ←
- MME
- # 12, 14

Handwritten notes on the right side of the page:

- KIOSK LYS
- KIOSK LYS X
- GATE # 11
- KIOSK ALG & HEAT
- KIOSK Norm.
- Panel
- KIOSK ALG & HEAT

Picture 12: D05 Capitol South – Panel ME in room C201



Picture 13: D05 Capitol South – Panel MPO in room C201



Pictures 14&15: D05 Capitol South – Common trough in room C201



Picture 16: D05 Capitol South – SWBD circuit for D05-WGB-05 Panel F in room 309

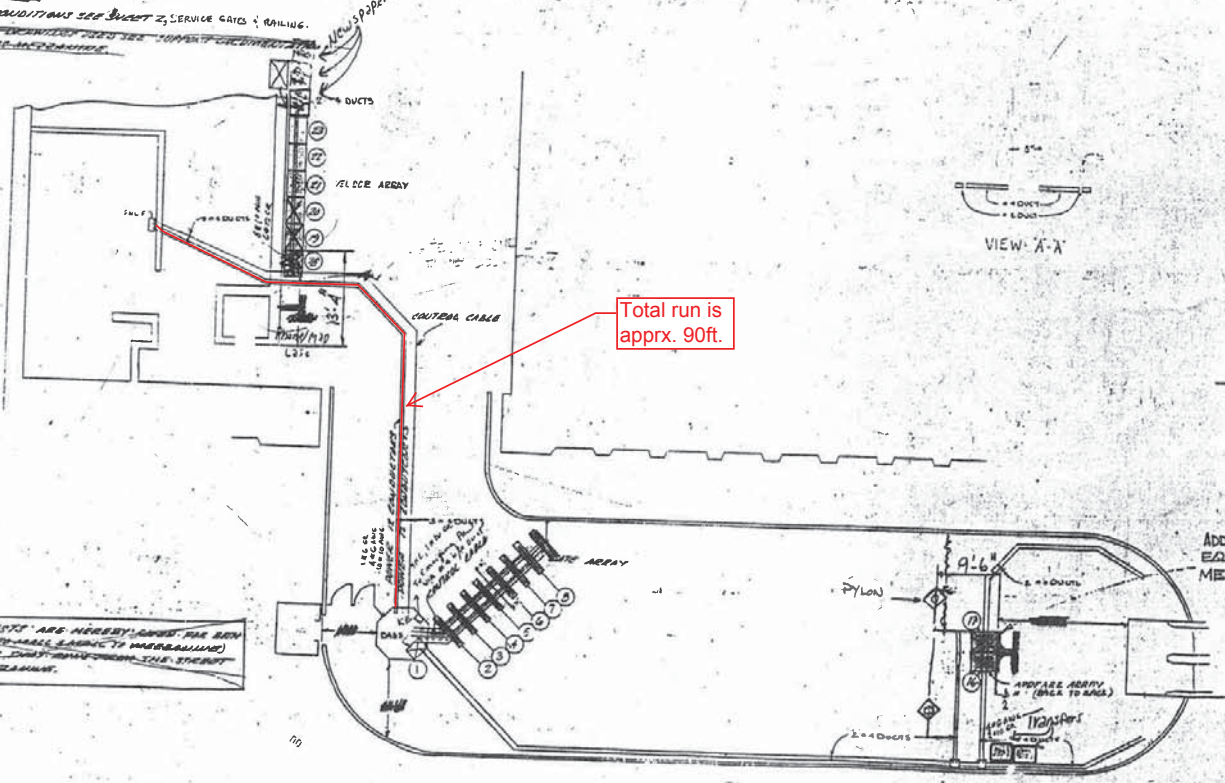


NOTES:

1. ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC-WESTERN DATA BY VANDERBILT UNIVERSITY.
2. TOTAL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING.
3. THE MINIMUM OPERATING MACHINE INVENTORY IS REPRESENTED ON THIS DRAWING BY THE 'X' DRAWN THROUGH THE MACHINE.
4. FDC AS BUILT CONDITIONS SEE SHEET 2, SERVICE GATES & RAILING.
5. FOR INFORMATION ONLY, THE SUPPORT CABLES FOR THE "RACKS" ARE NOT SHOWN.

REVISIONS		
DESCRIPTION	DATE	APVD

Pre-Inspection Field Verification 10/28/2014



Total run is approx. 90ft.

TERMINAL REQUESTS ARE HEREBY MADE FOR THE BOW SCALARS (CURRENT TO SMALL LAMPS TO MARRAS) AND THE ELEVATOR DUCTS FROM THE STAIR LEVEL TO THE MEZZANINE.

ADDFARE MACHINES EQUIVALENT SPACED ON MEZZANINE
 FDC DIES:
 172-13-15-179

CP: 23007A-116-2-00
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 APPROVED AS CORRECTED
 PRELIMINARY FIELD
 APPROVAL DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE ACCURACY OF THIS DRAWING OR THE FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
 BY: *[Signature]*
 DATE: 10/28/14

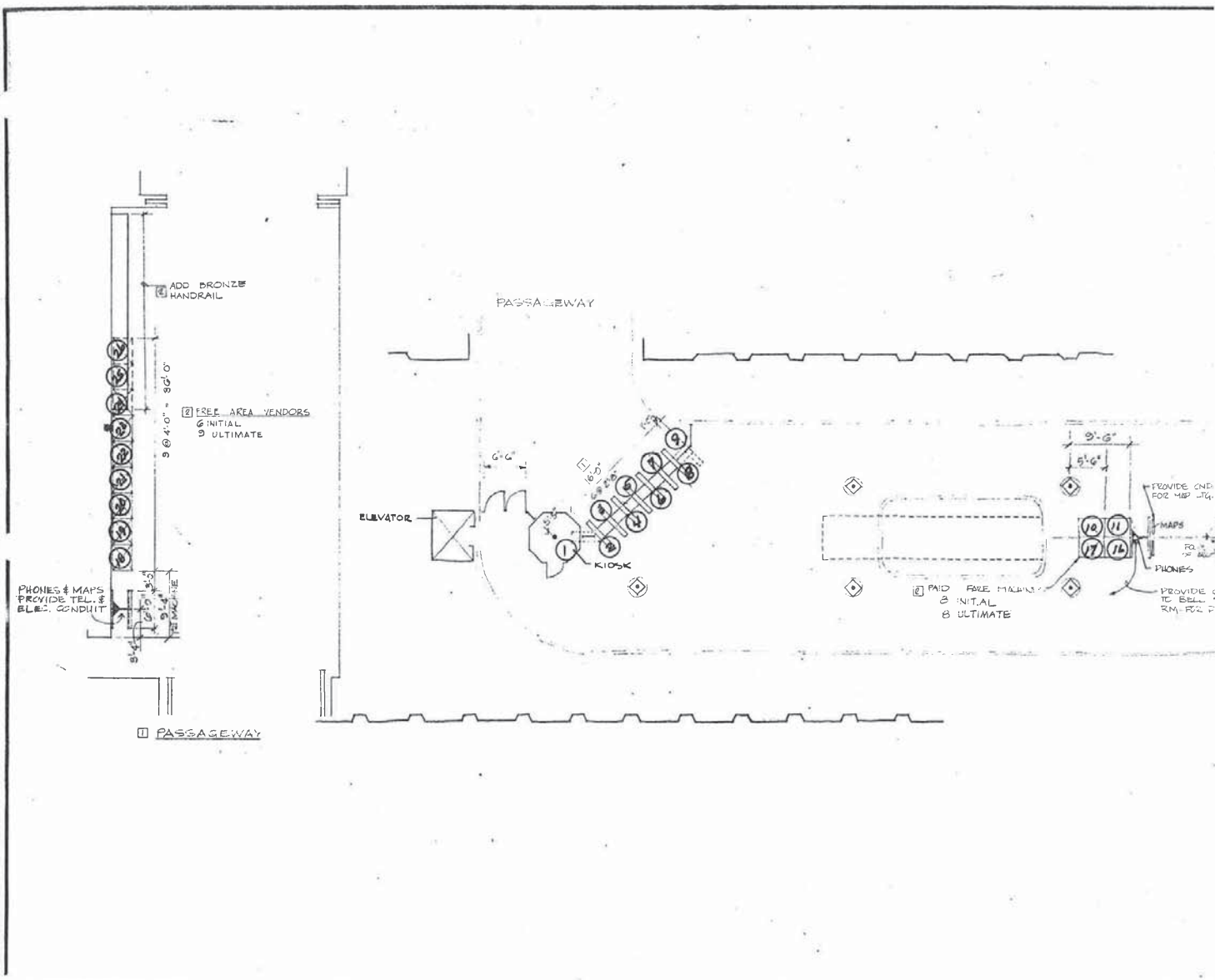
172-13-15-179

MEZZANINE STATION
 ADDFARE MACHINES

172-13-15-179

-1 INSTALLATION PLAN

#059



POSITION NUMBER	EQUIPMENT IDENTIFICATION			POSITION NUMBER	EQUIPMENT IDENTIFICATION		
	INITIAL	ULTIMATE	MIN. QPNT.		INITIAL	ULTIMATE	MIN. QPNT.
1	DABS	DABS	DABS	21	FARWARR	FARWARR	
2	EXIT	EXIT		22	FARWARR	FARWARR	
3	REV	REV		23	FARWARR	FARWARR	
4	REV	REV		24	FARWARR	FARWARR	
5	REV	REV		25	FARWARR	FARWARR	
6	REV	REV		26	FARWARR	FARWARR	
7	REV	REV		27	FARWARR	FARWARR	
8	EXIT	REV		28			
9		EXIT		29			
10	ADDFARU	ADDFARU		30			
11	TRANSFER	TRANSFER		31			
12	TRANSFER	TRANSFER		32			
13	TRANSFER	TRANSFER		33			
14	TRANSFER	TRANSFER		34			
15	TRANSFER	TRANSFER		35			
16	TRANSFER	TRANSFER		36			
17	ADDFARU	ADDFARU		37			
18	FARWARR	FARWARR		38			
19	FARWARR	FARWARR		39			
20	FARWARR	FARWARR		40			
				41			

Pre-Inspection Field Verification 10/28/2014

REPRODUCED
MAY 10 1978
EIGHTH
SYSTEMWIDE

DESIGNED	HWA	DATE	2-12-79
DRAWN	JJK	DATE	2-12-79
CHECKED	[Signature]	DATE	2-23-79
APPROVED	[Signature]	DATE	2-3-79

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
1	ADD FARE GATE DIMENSIONS	7-11-79	[Signature]	
2	ADD FREE AREA VENDORS			
3	REV. AFG EQUI. QUANTITIES, ADD HANDRAIL			

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA
APPROVED [Signature]
DIRECTOR OF ARCHITECTURE
APPROVED [Signature]
CHIEF OF ENGINEERING AND OPERATIONS

DE LEUW, CATHAR & COMPANY
GENERAL ENGINEERING CONSULTANT
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT
APPROVED 2/10/79 [Signature]

R4c CAPITOL SOUTH
FARE MACHINES, PHONES & MAPS

SCALE 1/8" = 1' - 0"

DRAWING NO. SK-431

59

Pre-Inspection Field
Verification 10/28/2014

EXISTING PANEL "F"										
AMPERES: 100	CIRCUITS: 120/208		MOUNTING: SURFACE							
NAME: 100A MLO	PHASE: 3		LOCATION: MECH. EQUIPMENT ROOM C201							
RATING: 10K AIC	WIRE: 4		SECTION: 1 OF 1							
LOAD DESCRIPTION	KVA	AMP	POLE	NO	CT	NO	CT	AMP	KVA	LOAD DESCRIPTION
EXISTING VENDOR	0.8	20	1	1	A -	2	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	3	- B -	4	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	5	- C	6	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	7	A -	8	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	9	- B -	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	- C	12	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A -	14	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	- C	18	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	18	A -	20	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	23	- C	24	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)
SPARE	0.0	20	1	25	A -	26	1	20	0.0	SPARE (KIOSK)
SPARE	0.0	20	1	27	- B -	28	1	20	0.0	SPARE
SPARE	0.0	-	-	29	- C	30	1	20	0.8	EXISTING VENDOR
SPARE	0.0	-	-	31	A -	32	2	60	2.9	EXIST KIOSK LOAD CENTER 'KES'
SPARE	0.0	-	-	33	- B -	34	-	-	2.5	
SPARE	0.0	-	-	35	- C	36	-	-	0.0	SPACE
SPARE	0.0	-	-	37	A -	38	-	-	0.0	SPACE
SPARE	0.0	-	-	39	- B -	40	-	-	0.0	SPACE
SPARE	0.0	-	-	41	- C	42	-	-	0.0	SPACE

NOTES 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A. 1P CB
2. CB TO BE RESERVED FOR FUTURE AFC

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	10.4 x 50%	5.2 KVA
MISC APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	2.0 x 125%	2.5 KVA
AC	3.0 x 100%	3.0 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	25.4 KVA	TOTAL DEMAND KVA 20.7 KVA
		TOTAL DEMAND AMPS 87.6 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	9.3 KVA
PHASE B	8.9 KVA
PHASE C	7.2 KVA

- NOTES: A. EXISTING PANEL "F" IS FED FROM 277/480V, 3 ϕ , 4W EXISTING SWBD. "WGB" LOCATE IN AC SWBD BATTERY ROOM 309, CIRCUIT #5-250A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E12A).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
* 1-3/4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 8-1 1/2" C. (2-EMPTY CONDUIT, 1-WIRING FILL >20%, 3-WIRING FILL >40%).

D05-WGB-05
(Breaker #5)

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED <u>C. MDD</u>	DATE <u>08-14</u>	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN <u>C. MDD</u>	DATE <u>08-14</u>					
CHECKED <u>B. OLIM</u>	DATE <u>08-14</u>					
APPROVED <u>NA</u>	DATE					

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

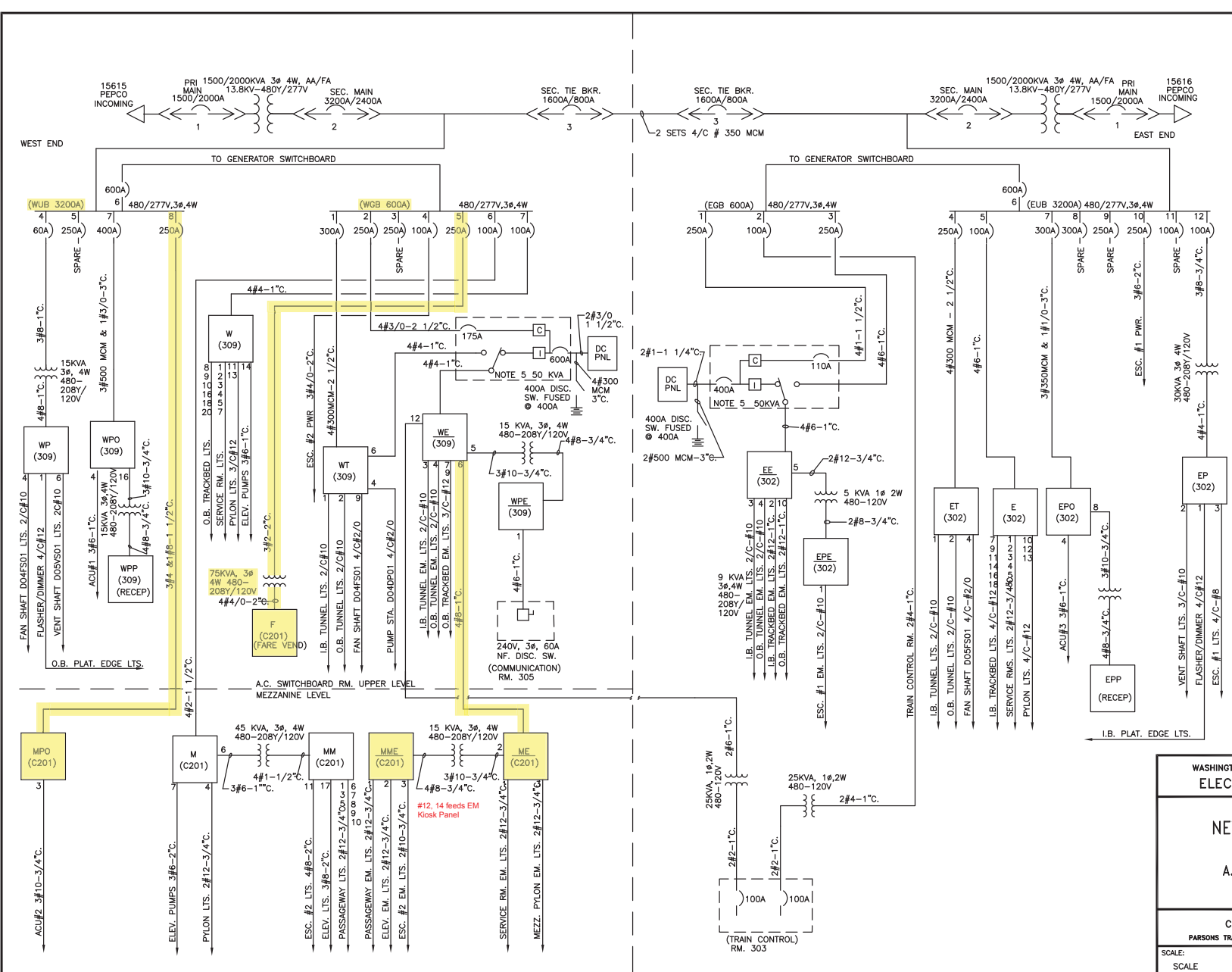
GFP A CONSULTING FIRMING/PARTNERS JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRO RAIL STATIONS
CAPITOL SOUTH
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO: D05-E-102

DESIGNED 6 HOURS 12/15/2010 CHECKED B GIBBON DATE 12/15/2010
 DRAWN 0 HOURS 12/15/2010 APPROVED A REHOBSON DATE 12/15/2010



- NOTES:**
- PANEL DESIGNATION
 WE (309) PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 (203) ROOM LOCATION
 (LTG) TYPE OF DISTRIBUTION
 - 8 (CIRCUIT NUMBER)
 + IF NO CIRCUITS SHOWN
 3#2,1#6-2" CONDUIT SIZE
 -AWG. GROUND WIRE
 -AWG. OR MCM CIRCUIT WIRES
 - CIRCUIT BREAKERS
 DRAW OUT <<<> 1600A/1200A
 MOLDED CASE 60A
 FRAME SIZE TRIP SETTING
 - 4/C-4/0 INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR AND SIZE OF EACH 4/0
 - RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER CHARGER INVERTER, POWER TRANSFER SWITCH ASSOCIATED BATTERIES AND PANELBOARD.
 - SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC
 TYPE OF BREAKERS: DS
 UPS MANUFACTURER: INTERNATIONAL POWER MACHINE

Pre-Inspection Field Verification 10/28/2014

REVISIONS		
DATE	BY	DESCRIPTION
12/15/10	GH	UPDATE AS BUILT DRAWING

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP


**NEW CARROLLTON ROUTE
 CAPITOL SOUTH STATION
 A.C. POWER ONE LINE DIAGRAM
 (D05)**

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: PARSONS DRAWING No. MM-D-E12A

COPY

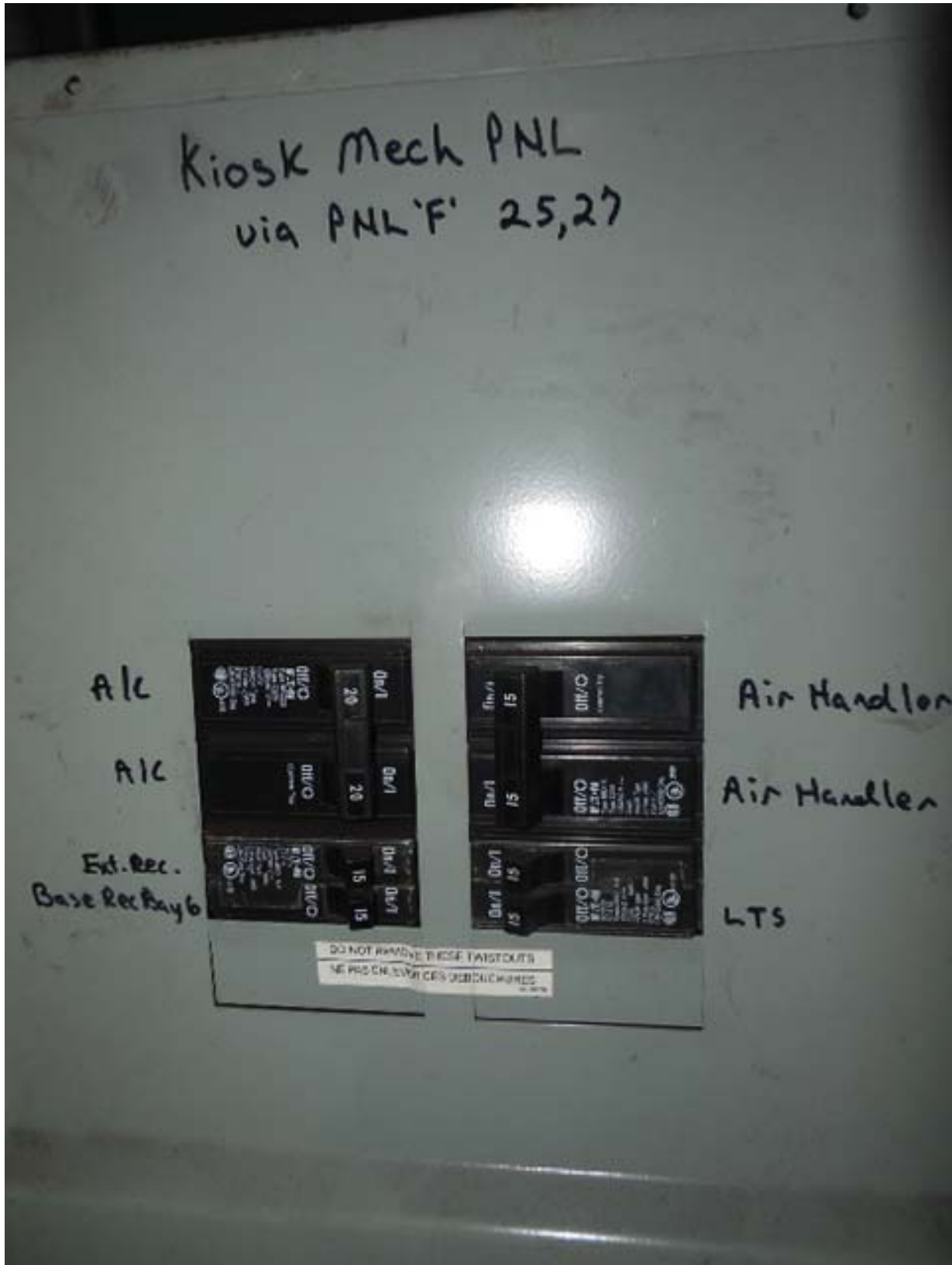
Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/04/2014	Station Name: Eastern Market - D06	Mezzanine #: 060	Completed By: Tino Sahoo	
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify that electrical power design matches the field/record. Identify locations of the electrical equipment.	Electrical Source Panel Name/Number: MPB Source Breaker Name/Number: Breaker #23 Electrical AFC Panel Name/Number: Panel F	Rm C206 Rm C206 Rm C206	As-built shows Panel MPB feeds AFC Panel F via circuit #19. In field, circuit #23 was verified as feeding AFC Panel.
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: SMNT/POWR escorts: HIGH and LOW Voltage		
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. NO		
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access? YES (see notes) Identified Conduit/Duct Transition to mezzanine level?		All conduit/ducts on mezzanine level.
Emergency Power Verification				
Check	Task	Equipment	Room ID	Notes
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:		
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number: MEP Source Breaker Name/Number: Breaker #9 & #11 Panel Name/Number: Kiosk Emergency Panel	Rm C206 Rm C206 Kiosk	Panel EMG located in Kiosk, Breaker #9 de-energizes emergency power to faregates.
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	11/04/2014			

Picture 1: D06 Eastern Market – Manhole & handholes in Service Room



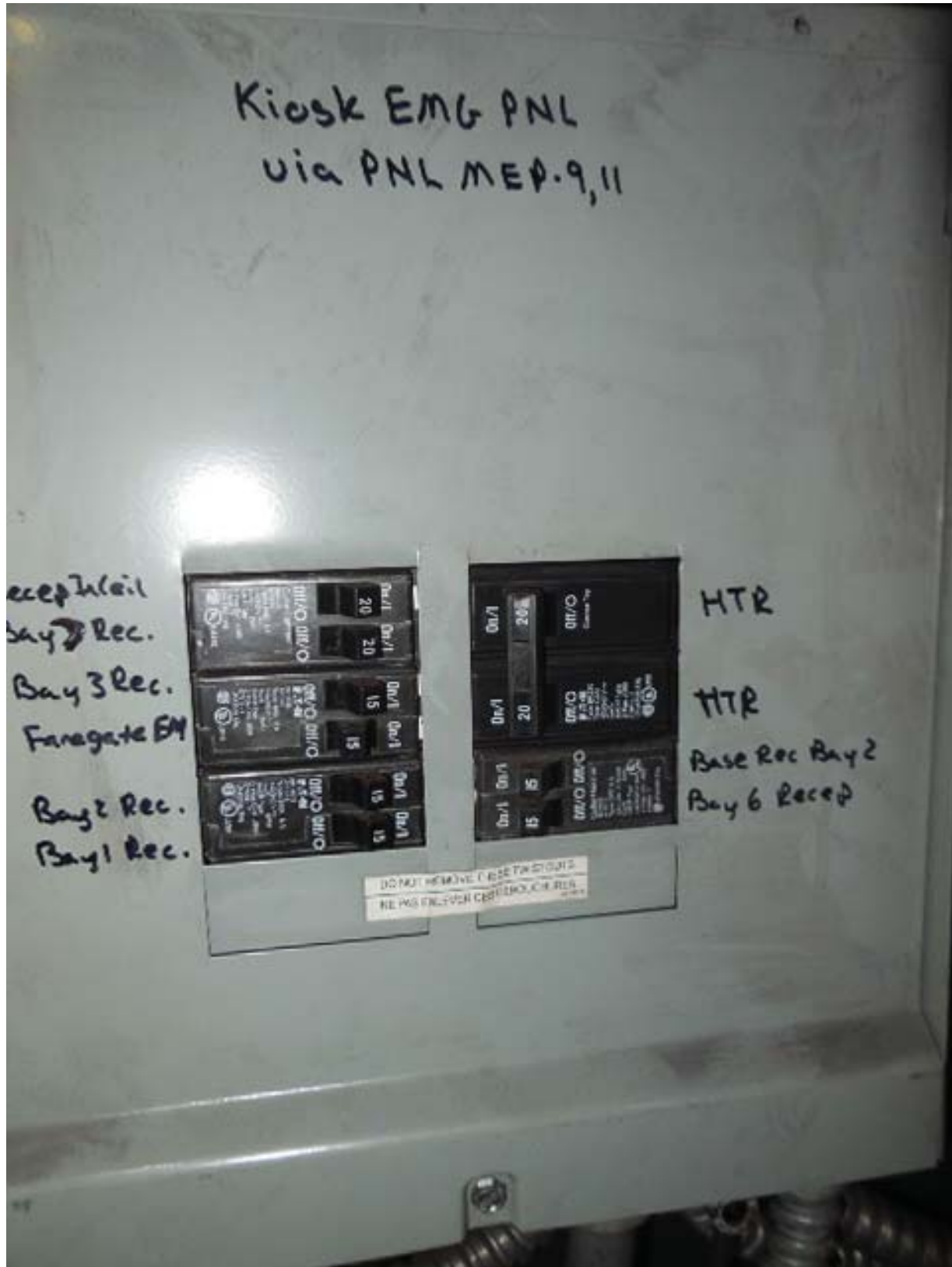
Picture 2: D06 Eastern Market – Emergency Panel in Kiosk



Picture 3: D06 Eastern Market – Emergency Panel in Kiosk – Panel schedule

WESTINGHOUSE CIRCUIT DIRECTORY	
1 Entrance Lights	2
3 Entrance Lights	4
5 Elev #1 Controls <i>ESC</i>	6 Elev #1 Cab Lts. #
7 Elev Passageway Lights	8 Elev #2 Cab Lts. #2 PIT POWER
9 Kiosk (DAD) Lts. <i>KIOSH PNL</i>	10 CANOPY LIGHTS
11 Kiosk Faregate Lights	12
13 <i>PANEL IN ESC PIT OUTSIDE</i>	14 CANOPY LIGHTS
15 Escalator Dis- connect <i>DETAIL</i>	16
17	18 } <i>POWER MEZZ.</i>
19	20 } <i>ESC. PIT PANEL GRATE</i>
21	22
23	24
25	26
27	28
	30
	32

Picture 4: D06 Eastern Market – Emergency Panel in Kiosk



Picture 5: D06 Eastern Market – Emergency Panel in Kiosk – Panel schedule

FEED FROM CIR	LOAD DESCRIPTION
1	KIOSK LIGHTING
3	KIOSK LIGHTING
5	KIOSK LIGHTING
7	KIOSK LIGHTING
9	KIOSK (New)
	Mechanical PNL
11	
13	
15	FARE CARD No 33
17	FARE CARD No 34
19	FARE CARD No 35
21	FARE CARD No 36
23	FARE CARD No 37
25	FARE CARD No 38
27	FARE CARD No 39
29	FARE CARD No 40
31	TRANSFORMER
33	TRANSFORMER
35	
37	PIDS MEZZ SIGN
39	
41	
2	
4	
6	
8	
10	
12	
14	GATE NO. 17
16	GATE NO. 16
18	GATE NO. 15
20	ADD FARE NO. 50
22	ADD FARE NO. 51
24	GATE NO. 14
26	GATE NO. 13
28	GATE NO. 12
30	GATE NO. 11 21
32	GATE NO. 10
34	GATE NO. 20
36	GATE NO. 19
38	GATE NO. 18
40	

Picture 6: D06 Eastern Market – AFC Panel F in Room C206



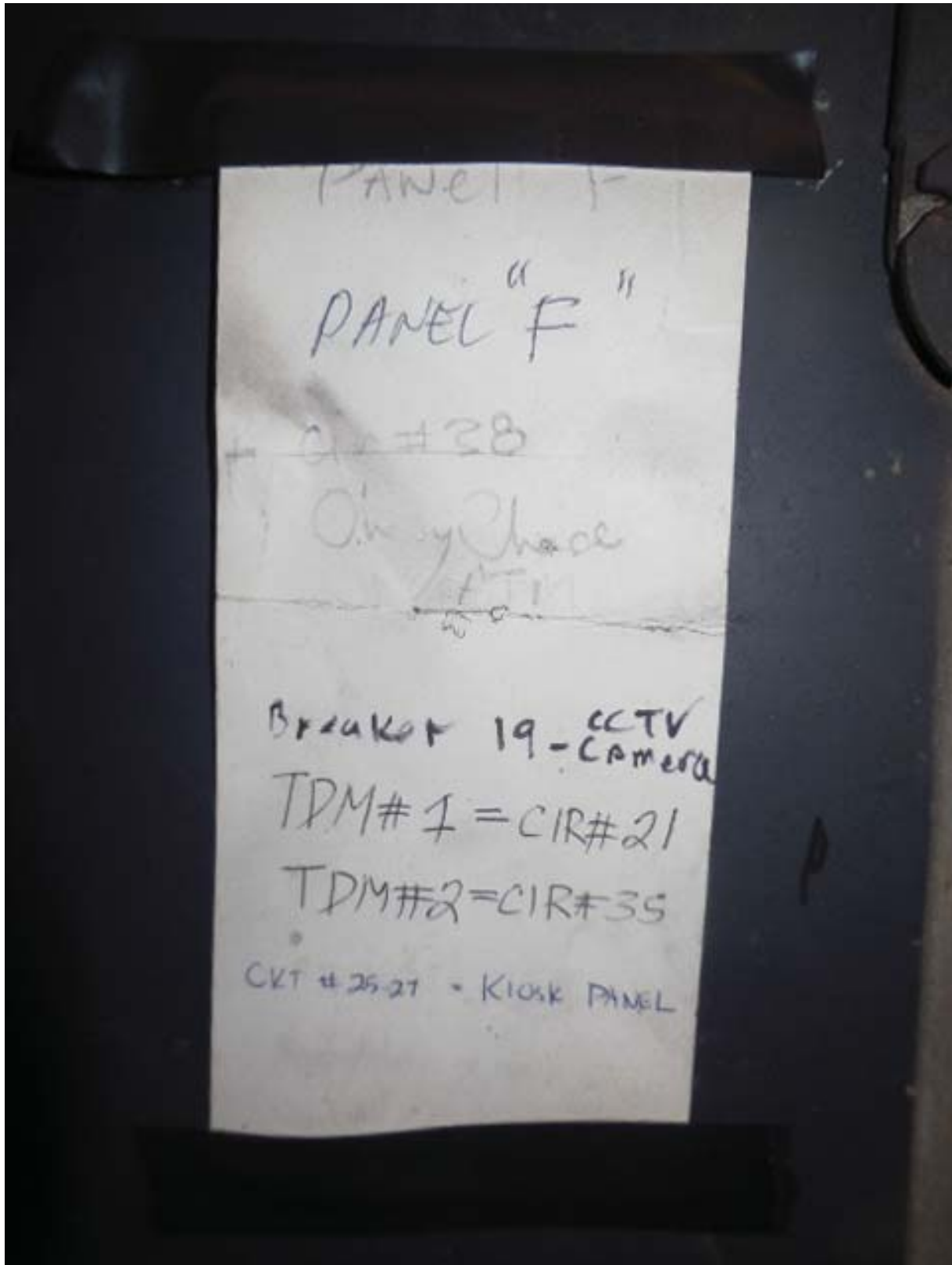
Picture 7: D06 Eastern Market – AFC Panel F in Room C206



Picture 8: D06 Eastern Market – AFC Panel F in Room C206 – Ducts below Panel



Picture 9: D06 Eastern Market – AFC Panel F in Room C206 – Panel schedule



Picture 10: D06 Eastern Market – Panel MPB in Room C206



Picture 11: D06 Eastern Market – Panel MPB in Room C206 – Panel schedule

WESTINGHOUSE		MPB
CIRCUIT DIRECTORY		
1 Mezz. Lts. <i>Pylon 1</i> <i>LEFT SIDE</i>	2	
3 Mezz. Lts. <i>Pylon 2</i> <i>RIGHT SIDE</i>	4	
5 Mech. Equipt Rm. Lts	6	
7 Escalator Entrance	8 Escalator Entrance	
9 " " " "	10 Panels MPPE; EBA	
11 Escalator Heaters Entrance	12 Elev. #1 <i>inside</i>	
13	14 Elev. #2 <i>inside</i>	
15	16	
17 Mezz lights	18	
19 Mezz lights	20	
21	22	
23 Panel "F" via transf.	24	
	26	
	28	
	30	

Picture 12: D06 Eastern Market – Panel MEP in Room C206



Picture 13: D06 Eastern Market – Panel MEP in Room C206 – Circuits 9 & 11



8

7

6

5

4

3

2

REVISIONS		
DESCRIPTION	DATE	APVD
AS BUILT DRAWING REVISION A	7-13-77	CP

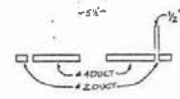
NOTES:
 ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS
 BASED ON INFORMATION SUPPLIED TO CUBIC-WESTERN
 DATA BY WMTA

TOTAL MACHINE INVENTORY IS DEPICTED ON THIS DRAWING.

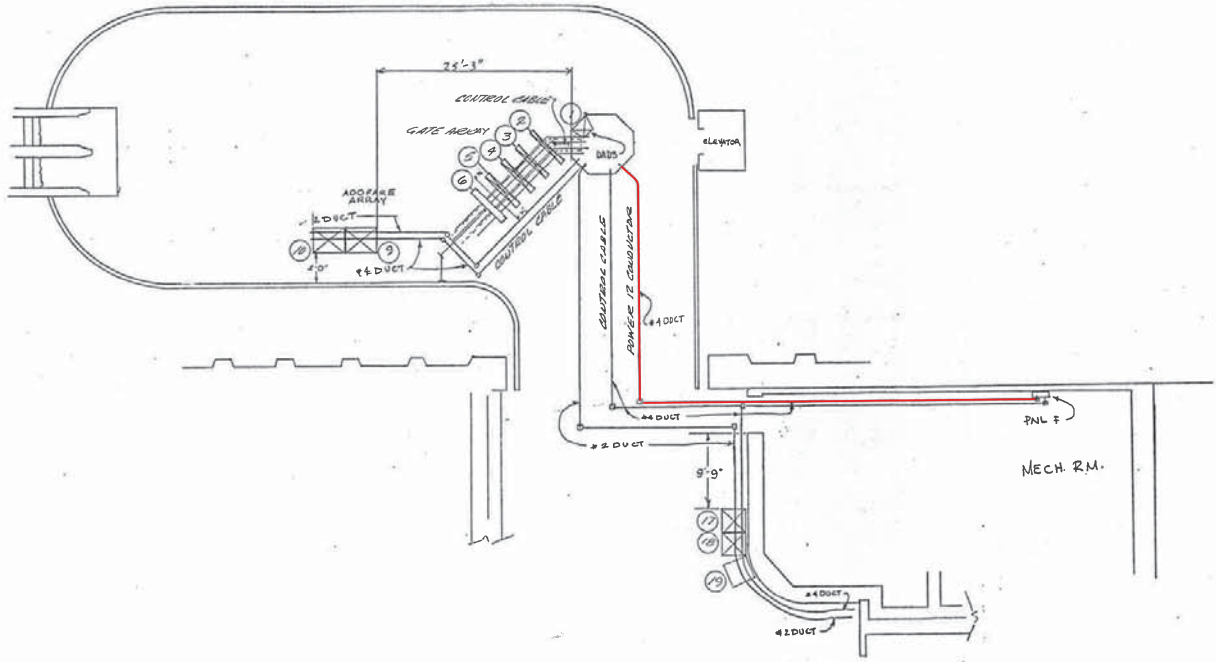
THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON
 THIS DRAWING BY THE "X" DRAWN THRU THE MACHINE

FOR AS BUILT CONDITIONS SEE SHEETS.

FOR REFERENCE DRAWINGS SEE SUPPORT DOCUMENTATION
 PACKAGE FOR THIS MEASURING.



VIEW 'A-A'



Pre-Inspection Field
 Verification 11/04/2014

-1 INSTALLATION PLAN
 (AS BUILT CONDITION)

WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY

CONTRACT NUMBER 22007A		CUBIC WESTERN DATA A subsidiary of Cubic Corporation 3800 KEARNEY WESLEY ROAD • FORT SHERIDAN, MISSOURI • SAN FRANCISCO, CA 94134	
EASTERN MARKET STATION AFC MACHINES		DRAWING NUMBER 926-0387	
PREL. _____ ENG'D. _____ DESIGN _____ CHECK _____ DRAWN _____	DESIGN ACTIVITY APPROVAL <i>[Signature]</i> APPROVED	SIZE D	REV 60

Pre-Inspection Field
Verification 11/04/2014

EXISTING PANEL "F" ✓												
AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE								
MANS: 225AMCB		PHASE: 3		LOCATION: MECH EQUIPMENT ROOM C206 ✓								
RATING: 10K AC		WIRE: 4		SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	CKT BKRS		CKT NO	NO.	CKT BKRS		KVA	LOAD DESCRIPTION			
		AMP	POLE			AMP	POLE					
SPARE	0.0	20	1	1	A	-	2	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	5	-	C	6	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	7	A	-	8	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	9	-	B	-	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	-	C	12	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	13	A	-	14	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	-	C	18	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP) ✓	
EXISTING VENDOR	0.8	20	1	19	A	-	20	1	20	0.0	SPARE (KIOSK) ✓	
EXISTING VENDOR	0.8	20	1	21	-	B	-	22	1	20	0.0	SPARE
SPARE	0.0	20	1	23	-	C	24	1	20	0.0	SPARE	
EXIST. KIOSK LOAD CENTER "YES"	2.9	50	2	25	A	-	26	1	20	0.0	SPARE	
	2.5	-	-	27	-	B	-	28	1	20	0.0	SPARE
SPACE	0.0	-	-	29	-	C	30	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	31	A	-	32	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	33	-	B	-	34	1	20	0.0	SPARE
EXISTING VENDOR	0.0	20	1	35	-	C	36	1	20	0.0	SPARE	
SPARE	0.0	20	1	37	A	-	38	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	39	-	B	-	40	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	41	-	C	42	1	20	0.0	SPARE	

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 20A, 1P CB
2. CB TO RESERVED FOR FUTURE AFC

LOAD SUMMARY		
LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	9.6 x 50%	4.8 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	2.0 x 125%	2.5 KVA
AC	3.0 x 100%	3.0 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	24.6 KVA	TOTAL DEMAND KVA 20.3 KVA
		TOTAL DEMAND AMPS 56.4 AMPS

CONNECTED LOAD PHASE SUMMARY		
PHASE A	9.3 KVA	
PHASE B	9.7 KVA	
PHASE C	5.6 KVA	

NOTES: A. EXISTING PANEL "F" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "MPB" LOCATE IN MECH. EQUIPMENT ROOM C206, CIRCUIT #23-100A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-D-E14).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 2- 6 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
* 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 2-3/4" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED: C. MOO	DATE: 09-14	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
DRAWN: C. MOO	09-14				
CHECKED: B. GIBB	09-14				
APPROVED: M/A	DATE				

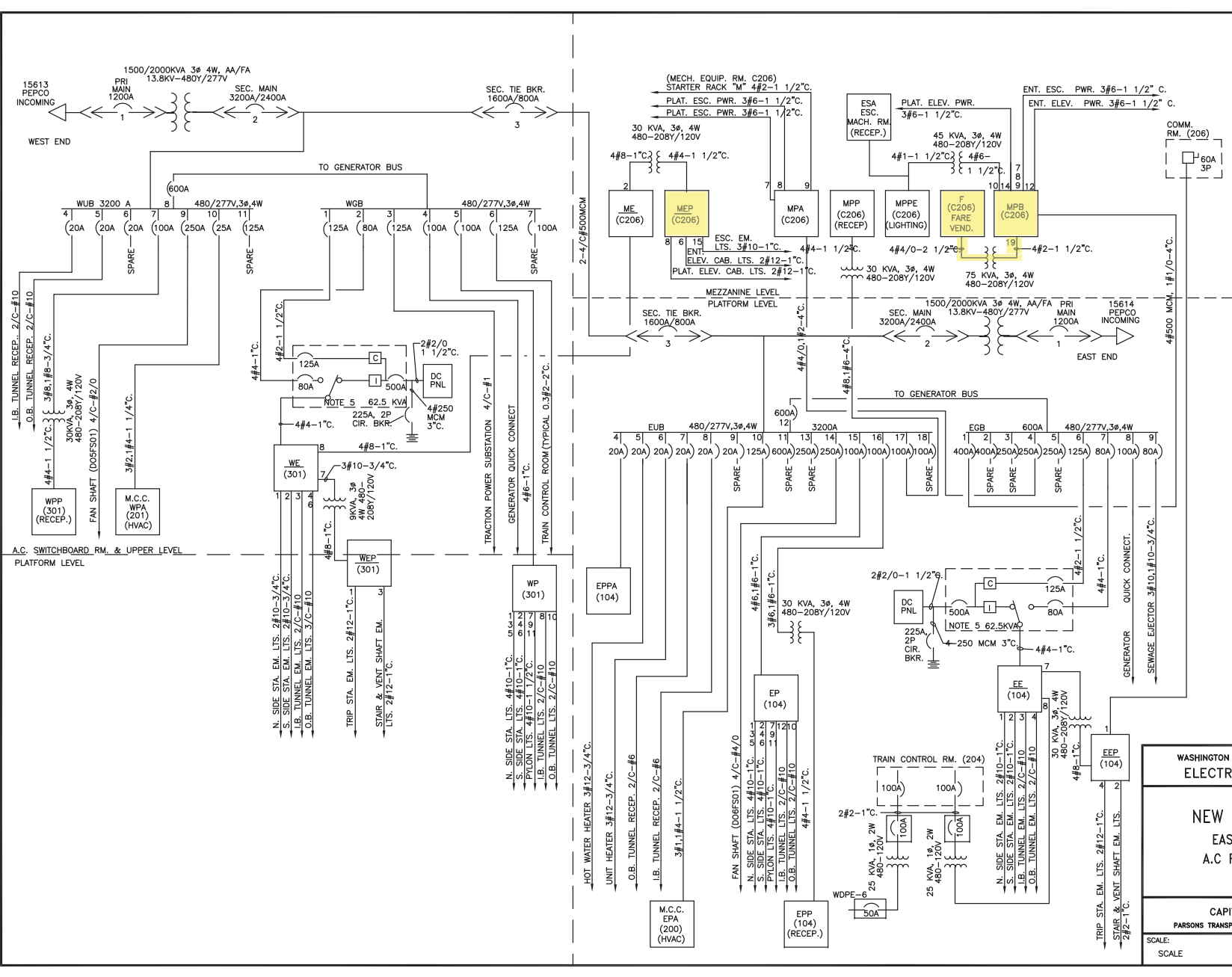
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM
APPROVED _____

GFP A GANNETT Fleming/Parsons JOINT VENTURE
SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRO RAIL STATIONS
EASTERN MARKET PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO.: D06-E-102

DESIGNED 0 HOURS 12/15/2010 CHECKED 8 HOURS 01/05/2011
 DRAWN 0 HOURS DATE 01/05/2011
 APPROVED A ROBINSON DATE



- NOTES:**
- PANEL DESIGNATION
 WEA (203) (LTC) PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY ROOM LOCATION TYPE OF DISTRIBUTION
 - 8 (CIRCUIT NUMBER)
 + IF NO CIRCUITS SHOWN
 2. 3#2,1#6-2" CONDUIT SIZE
 -AWG. GROUND WIRE
 -AWG. OR MCM CIRCUIT WIRES
 - CIRCUIT BREAKERS
 DRAW OUT <<<>> 1600A/1200A
 MOLDED CASE
 60A TRIP SETTING
 INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTOR AND SIZE OF EACH 4/0
 - 4/C-4/0
 - RATING AS SHOWN FOR UNINTERRUPTIBLE POWER SUPPLY CONSISTING OF RECTIFIER CHARGER INVERTER, POWER TRANSFER SWITCH ASSOCIATED BATTERIES AND PANELBOARD.
 - INDICATES BREAKER FUSE CURRENT LIMITER
 - SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC
 TYPE OF BREAKERS: DS
 - UPS MANUFACTURER: IPM

Pre-Inspection Field Verification 11/04/2014

REVISIONS		
DATE	BY	DESCRIPTION
01/11	GH	UPDATE AS BUILT

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 ELECTRICAL MAINTENANCE MAP

**NEW CARROLLTON ROUTE
 EASTERN MARKET STATION
 A.C. POWER ONE LINE DIAGRAM (D06)**

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: DRAWING No. MM-D-E14

COPY