

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/30/2014 **Station Name:** E02 Shaw-Howard U (S) **Mezzanine #** 071 **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: Essential SWBD LOAD Source Breaker Name/Number: "PANEL SF" Circuit #5 Electrical AFC Panel Name/Number: SF	220 220 208	AC Switchboard room is located on platform level, Track 2 wayside.
<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		Kiosk Emergency Panel is Panel SKE (Kiosk). Source Panel is Panel SMEP (Rm. 208) and circuit #6.
<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 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		Access to multiple handholes are required.

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:	9/30/14	

Photo #1: E02 Shaw-Howard U (North) – Handhole in mezzanine floor



Photo #2: E02 Shaw-Howard U (North) – Pullbox and top of panel NF in room 205



Photo #3: E02 Shaw-Howard U (North) – Panel NF in room 205

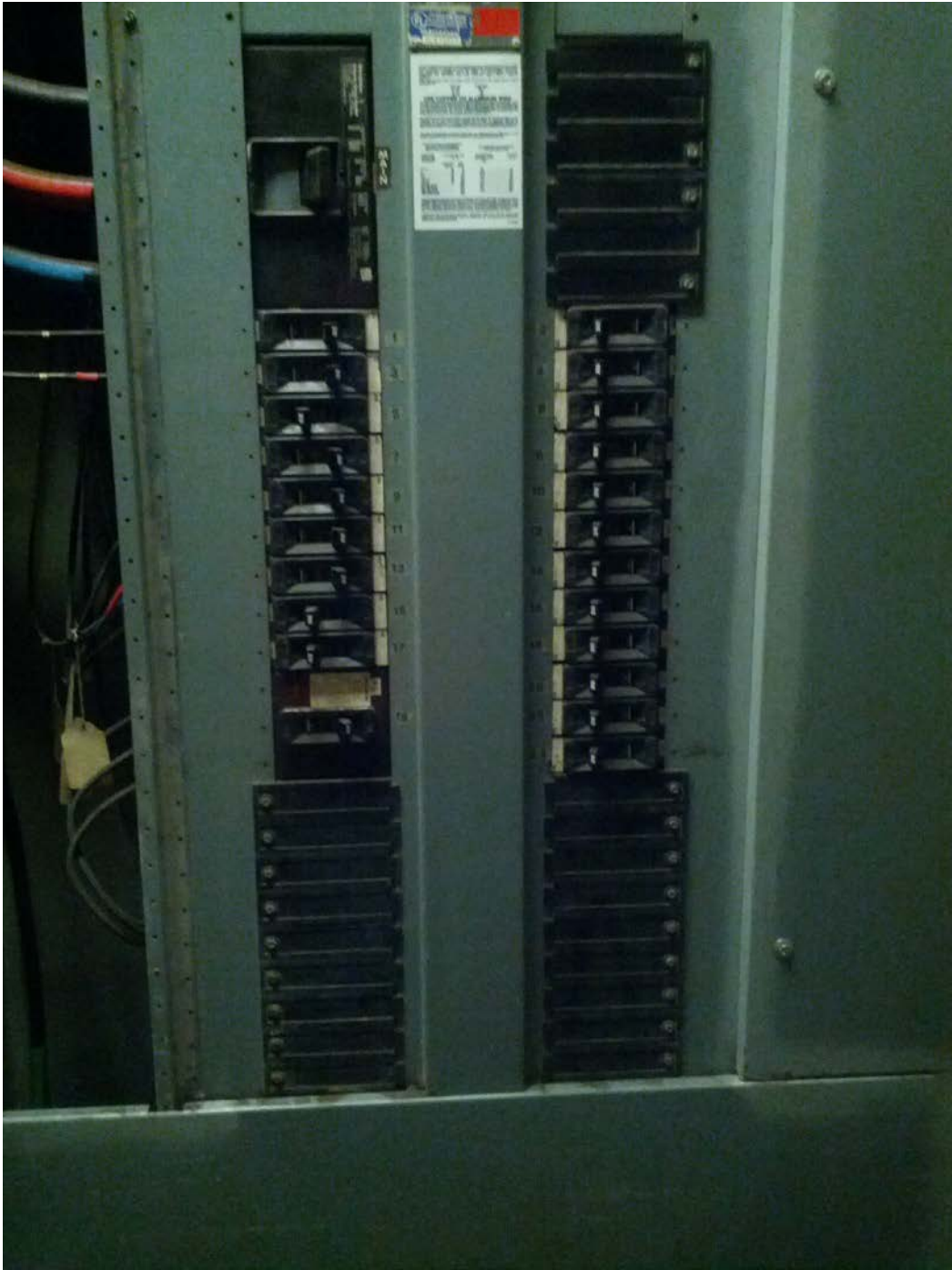


Photo #4: E02 Shaw-Howard U (North) – Schedule Panel NF in room 205

PANELBOARD: NF	
FED FROM:	
CIR	LOAD DESCRIPTION
1	PASSEGEWAY MAPCASE
2	BUS TRANSFERS SPARE 06/12/09
3	MEZZANINE MAPCASE
4	FARE GATE CONSOLE XG4824
5	FREE AREA VENDORS
6	FARE GATE CONSOLE RG7870 Entry 18
7	FREE AREA VENDORS VN1808 - 30
8	FARE GATE CONSOLE EG-3819 Entry 19
9	FREE AREA VENDORS VN1816 31
10	FARE GATE CONSOLE EG-3813
11	FREE AREA VENDORS VN1817 32
12	FARE GATE CONSOLE RG7869 & XG4820
13	FREE AREA VENDORS VN1828 33
14	FARE GATE CONSOLE #11
15	FREE AREA VENDORS
16	PAID AREA VENDORS AF-2820 - 50
17	FREE AREA VENDORS AFC 51
18	PAID AREA VENDORS AF-2821 - 51
19	KIOSK PANEL
20	SPARE
21	SPACE
22	SPACE PTD3 PTD2 SEAL (NWK)
23	SPACE
24	SPACE AFC 51
25	SPACE
26	SPACE
27	SPACE
28	SPACE
29	SPACE
30	SPACE
31	SPACE
32	SPACE
33	SPACE
34	SPACE
35	SPACE

Photo #5: E02 Shaw-Howard U (North) – SWBD breaker for Panel NF in room 223

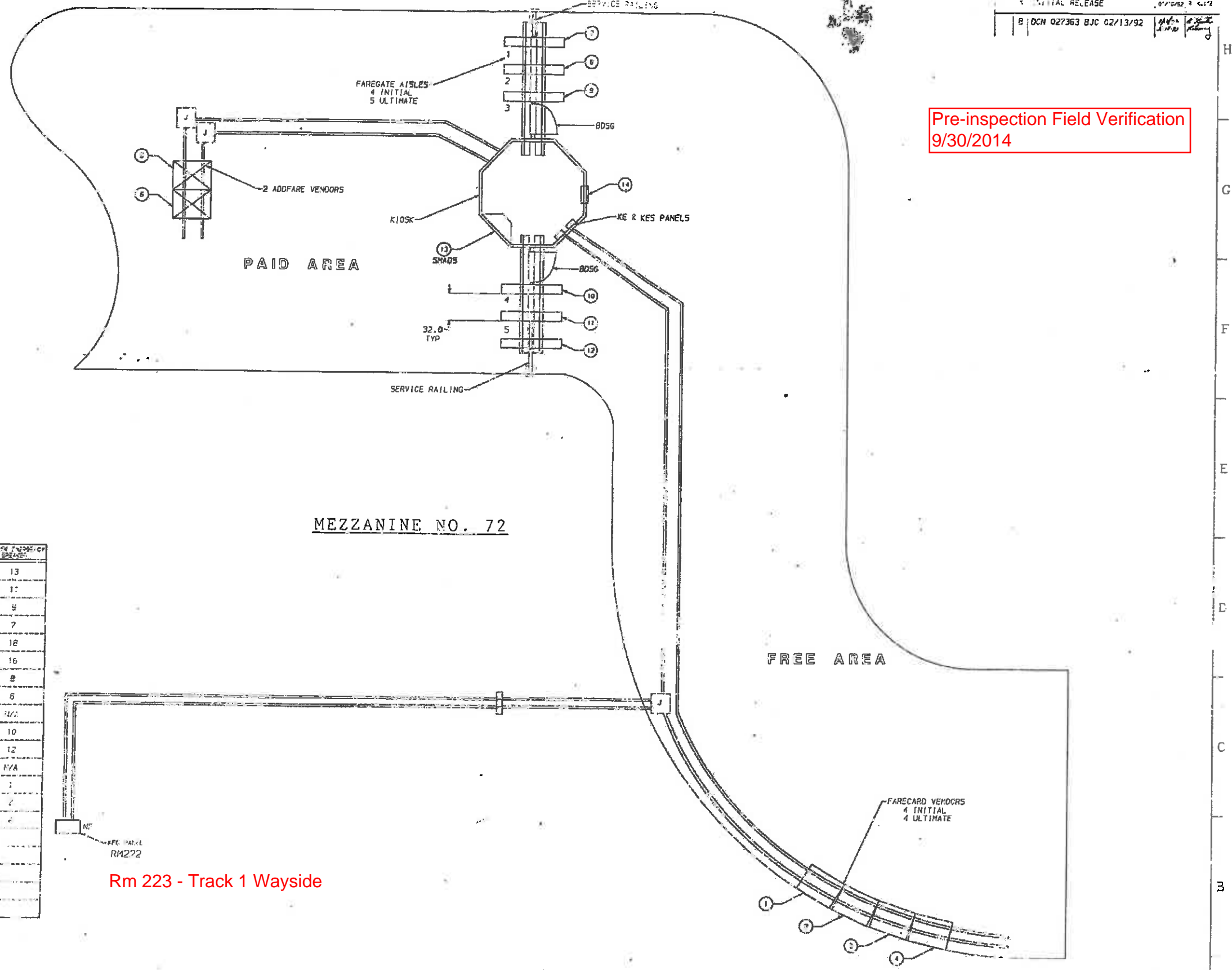


Photo #6: E02 Shaw-Howard U (North) – SWBD breaker for Panel NF in room 223



1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SHADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON NEUTRAL:
7, 9 & 11, 16 & 18, 6 & 8, 10 & 12.

Pre-inspection Field Verification
 9/30/2014



NAME	SYM	PANEL NO.	WIRE NUMBER BY BREAKER
1 VENDOR	VN1828	NF	13
2 VENDOR	VN1817	NF	15
3 VENDOR	VN1816	NF	9
4 VENDOR	VN1815	NF	7
5 ADDFARE	AF2821	NF	18
6 ADDFARE	AF2820	NF	16
7 ENTRY GATE	EG3819	NF	8
8 REV. GATE	RG7870	NF	6
9 EXIT GATE	XE4821	NF	N/A
10 ENTRY GATE	EG3813	NF	10
11 REV. GATE	RG7865	NF	12
12 EXIT GATE	XE4820	NF	N/A
13 SHADS	SH1812	KE	1
14 SHADS CLOCK	SH1814	KE	2
EMERGENCY LT		KE	4

Rm 223 - Track 1 Wayside

Pre-inspection Field Verification
9/30/2014

EXISTING PANEL "NF" ✓										
AMPERES 400		VOLTS 120/208			MOUNTING: SURFACE					
MAINS: 250AMCB		PHASE: 3			LOCATION: ELECTRICAL EQUIPMENT ROOM 205 ✓					
RATING: 10K AIC		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
1 NEW KIOSK RECEPT. (IT & NEPP)	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
1&2 SPARE (KIOSK)	0.0	20	1	15	- B -	16	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	3.3	40	3	17	- - C	18	1	20	0.8	EXISTING VENDOR
-	2.5	-	-	19	A - -	20	1	20	0.8	EXISTING VENDOR
-	2.5	-	-	21	- B -	22	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	23	- - C	24	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	25	A - -	26	-	-	0.0	SPACE
SPACE	0.0	-	-	27	- B -	28	-	-	0.0	SPACE
SPACE	0.0	-	-	29	- - C	30	-	-	0.0	SPACE
SPACE	0.0	-	-	31	A - -	32	-	-	0.0	SPACE
SPACE	0.0	-	-	33	- B -	34	-	-	0.0	SPACE
SPACE	0.0	-	-	35	- - C	36	-	-	0.0	SPACE
SPACE	0.0	-	-	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	6.0 x 50%	3.0 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	23.5 KVA	TOTAL DEMAND KVA 21.3 KVA
		TOTAL DEMAND AMPS 59.0 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	8.1 KVA	
PHASE B	7.3 KVA	
PHASE C	8.1 KVA	

Mechanical
Equipment
Room
Rm. 217

NOTES: A. EXISTING PANEL "NF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "NSB" LOCATED IN AC SWBD. ROOM 223, #6-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E08).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-4" C. TO TRANSFORMER (1-WIRING FILL >40%).
* 3-3" C. (1-EMPTY & 2-WIRING FILL >40%).
* 2-3/4" C. (WIRING FILL >40%).

Rm 223 - Track 1
Wayside
Essential Circuit
#4

EXISTING PANEL "SF"										
AMPERES 400		VOLTS 120/208			MOUNTING: SURFACE					
MAINS: 250AMCB		PHASE: 3			LOCATION: ELECTRICAL EQUIPMENT ROOM 208					
RATING: 10K AIC		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
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
EXIST LOAD CENTER "KES"	3.3	40	3	19	A - -	20	1	20	0.8	EXISTING VENDOR
-	2.5	-	-	21	- B -	22	1	20	0.8	EXISTING VENDOR
-	2.5	-	-	23	- - C	24	1	20	0.8	EXISTING VENDOR
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	25	A - -	26	-	-	0.0	SPACE
1&2 SPARE (KIOSK)	0.0	20	1	27	- B -	28	-	-	0.0	SPACE
SPACE	0.0	-	-	29	- - C	30	-	-	0.0	SPACE
SPACE	0.0	-	-	31	A - -	32	-	-	0.0	SPACE
SPACE	0.0	-	-	33	- B -	34	-	-	0.0	SPACE
SPACE	0.0	-	-	35	- - C	36	-	-	0.0	SPACE
SPACE	0.0	-	-	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. PROVIDE 2-NEW 20A, 1P CB IN AVAILABLE SPACES (NEW CB'S SHALL MATCH EXISTING CB'S)
AND CONNECT NEW FEEDER TO 2-NEW 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	8.4 x 50%	4.2 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	25.9 KVA	TOTAL DEMAND KVA 22.5 KVA
		TOTAL DEMAND AMPS 62.4 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	9.7 KVA	
PHASE B:	8.1 KVA	
PHASE C:	8.1 KVA	

NOTES: A. EXISTING PANEL "SF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "SSB" LOCATED IN AC SWBD. ROOM 220, #6-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E08).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-4" C. TO TRANSFORMER (1-WIRING FILL >40%).
* 3-3" C. (1-EMPTY & 2-WIRING FILL >40%).
* 2-3/4" C. (WIRING FILL >40%).

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED	C. NED	08-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NED	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



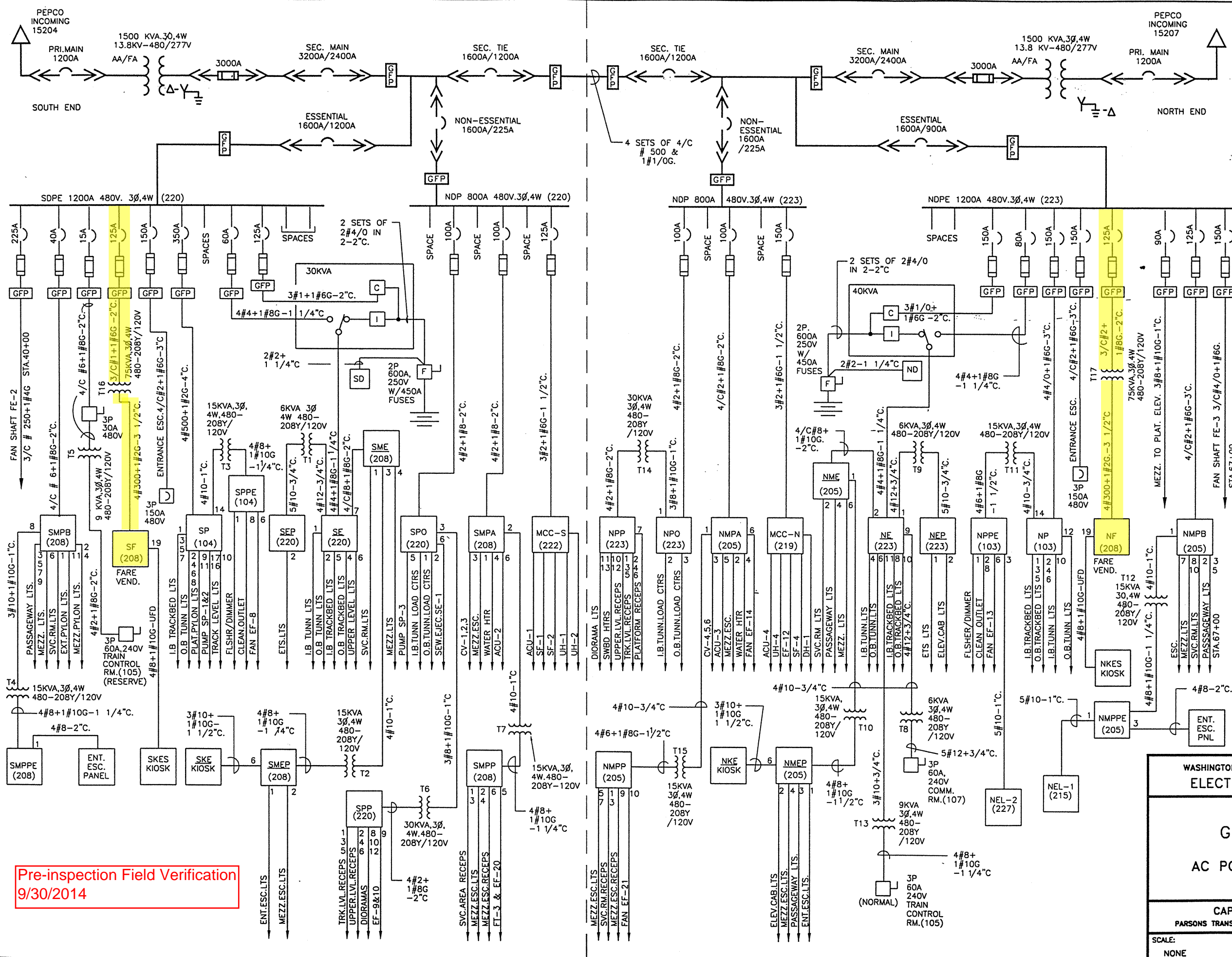
APPROVED _____

SUBMITTED _____
PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
SHAW - NORTH & SOUTH
PANEL SCHEDULES

SCALE
NOT TO SCALE

DRAWING NO.
E02-E-102



- NOTES:**
1. PANEL DESIGNATION

WEA (205)

PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY

ROOM NUMBER

8 (CIRCUIT NUMBER)
 2. 3#2, 2" CONDUIT SIZE

AWG OR KCMIL CIRCUIT WIRES

AS TAKEN FROM AS BUILT DWGS.
 3. CIRCUIT BREAKERS

DRAW OUT ←→ 1600A/1200A

FRAME SIZE CONTINUOUS CURRENT SETTING
 4. 4/C # 4/0

INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTORS AND SIZE OF EACH 4/0
 5. [Symbol] INDICATES FUSE CURRENT LIMITER AT BREAKER
 6. SWITCHGEAR INFORMATION:

MANUFACTURER—WESTINGHOUSE

ORDER NO.—VN-10001

DWG. NO.—ST88D1360 (NORTH)

DWG. NO.—ST88D1361 (SOUTH)
 7. UPS MANUFACTURER:

HDR POWER SYSTEMS
 8. ROOM DESIGNATIONS:

ROOM	DESCRIPTION
103	N. MECH.RM.(TRACK LEVEL)
104	S. MECH.RM.(TRACK LEVEL)
105	TRAIN CONTROL RM.
107	COMM.RM.
205	ELEC.RM.(S. ENT.MEZZ.)
208	ELEC.RM.(N. ENT.MEZZ.)
215	N. ENT. ELEV.MACH. RM.
219	MECH.RM.(N. UPPER LEVEL)
220	S. A.C.RM.(S. UPPER LEVEL)
222	MECH.RM.(S. UPPER LEVEL)
223	N. A.C.RM.(N. UPPER LEVEL)
227	S. SVC. AREA ELEV.MACH.RM.

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP


GREENBELT ROUTE
SHAW STATION
AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE	DRAWING No. MM-E-E08
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Pre-inspection Field Verification
9/30/2014

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/30/2014	Station Name: U Street - East - E03	Mezzanine #: 073	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 East / Essential SWBD Source Breaker Name/Number: XFMR Panel EF (Circuit #7) Electrical AFC Panel Name/Number: EF	Rm 109 Rm 109 Rm 213	AC SWBD Rm 109 is located on Platform level, wayside of Track 2.
<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: 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 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 conduits/ducts are 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: Panel EEA Source Breaker Name/Number: Circuit #9 Panel Name/Number: Panel EKE	Rm 109 Rm 109 Kiosk	
Notes and Discrepancies: Kiosk panel on right hand side in Kiosk (breaker #4) de-energizes emergency power to all faregates. (Panel is not labeled)				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	09/30/2014			

Picture 1: E03 U Street East – Mezzanine manhole



Picture 2: E03 U Street East – Mezzanine manhole



Picture 3: E03 U Street East – AFC Panel in Room 213



Picture 4: E03 U Street East – AFC Panel in Room 213



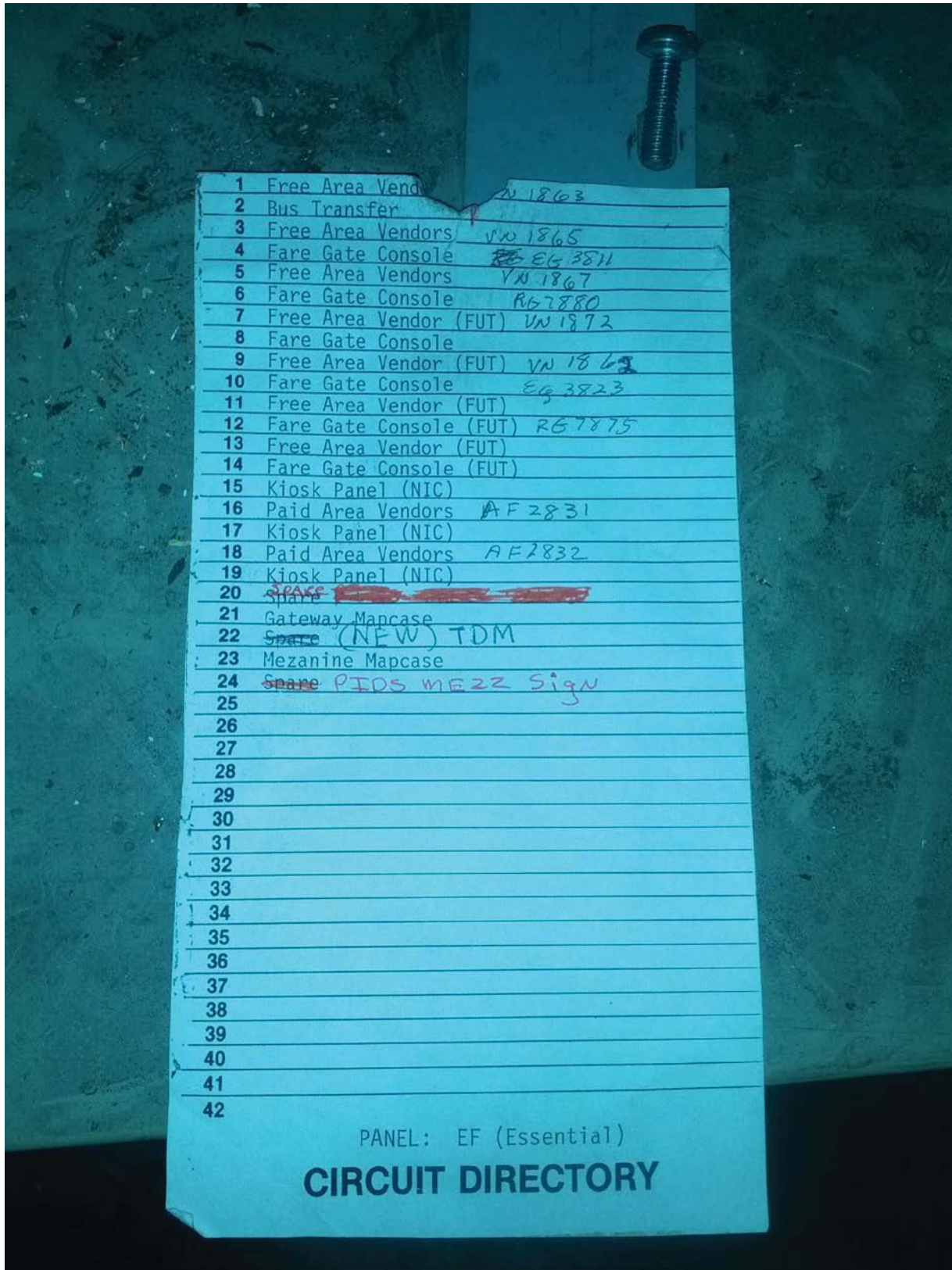
Picture 5: E03 U Street East – AFC Panel in Room 213



Picture 6: E03 U Street East – AFC Panel in Room 213



Picture 7: E03 U Street East – AFC Panel schedule in Room 213



Picture 8: E03 U Street East – AFC Panel schedule in Room 213

1	Free Area Vendor	VN 1863
2	Bus Transfer	
3	Free Area Vendors	VN 1865
4	Fare Gate Console	RG EG 3811
5	Free Area Vendors	VN 1867
6	Fare Gate Console	RG 7880
7	Free Area Vendor (FUT)	VN 1872
8	Fare Gate Console	
9	Free Area Vendor (FUT)	VN 1869
10	Fare Gate Console	EG 3823
11	Free Area Vendor (FUT)	
12	Fare Gate Console (FUT)	RG 7875
13	Free Area Vendor (FUT)	
14	Fare Gate Console (FUT)	
15	Kiosk Panel (NIC)	
16	Paid Area Vendors	AF 2831
17	Kiosk Panel (NIC)	
18	Paid Area Vendors	AF 2832
19	Kiosk Panel (NIC)	
20	SPARE	
21	Gateway Mapcase	
22	SPARE (NEW) TDM	
23	Mezanine Mapcase	
24	SPARE PIDS MEZZ Sign	
25		
26		
27		
28		
29		
30		
31		

Picture 9: E03 U Street East – Essential SWBD Transformer in Room 109



EXISTING PANEL "EF" ✓											
AMPERES: 400		VOLTS: 120/208		MOUNTING: SURFACE							
MAINS: 250A MCB		PHASE: 3		LOCATION: ELECTRICAL EQUIPMENT ROOM 213 ✓							
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1							
LOAD DESCRIPTION	KVA	AMP	POLE	NO	CKT NO.	POLE	AMP	KVA	LOAD DESCRIPTION		
EXISTING VENDOR	0.8	20	1	1	A -	2	1	20	0.0	SPARE (KIOSK)	18.2 ✓
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	
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	13	A -	14	1	20	0.8	EXISTING VENDOR	
EXISTING LOAD CENTER "KES"	3.3	40	3	15	- B -	16	1	20	0.8	EXISTING VENDOR	
	2.5	-	-	17	- - C	18	1	20	0.8	EXISTING VENDOR	
	2.5	-	-	19	A -	20	1	20	0.0	SPARE	
EXISTING VENDOR	0.0	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.0	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR	
SPACE	0.0	-	-	25	A -	26	1	20	0.0	SPACE	
SPACE	0.0	-	-	27	- B -	28	1	20	0.0	SPACE	
SPACE	0.0	-	-	29	- - C	30	1	20	0.0	SPACE	
SPACE	0.0	-	-	31	A -	32	1	20	0.0	SPACE	
SPACE	0.0	-	-	33	- B -	34	1	20	0.0	SPACE	
SPACE	0.0	-	-	35	- - C	36	1	20	0.0	SPACE	
SPACE	0.0	-	-	37	A -	38	1	20	0.0	SPACE	
SPACE	0.0	-	-	39	- B -	40	1	20	0.0	SPACE	
SPACE	0.0	-	-	41	- - C	42	1	20	0.0	SPACE	
SPACE	0.0	-	-	43	A -	44	1	20	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	4.4 x 50%		2.2 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	21.9 KVA	TOTAL DEMAND KVA	20.5 KVA
		TOTAL DEMAND AMPS	56.8 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	6.5 KVA
PHASE B	8.1 KVA
PHASE C	7.3 KVA

Essential SWBD Track 2 Wayside

NOTES: A. EXISTING PANEL "EF" IS FED FROM 277/480V, 3φ, 4W EXISTING SWITCHBOARD "SWBD EAST" LOCATED IN AC SWBD, RM. 106, #3-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E10).

B. EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 2- 3" C. (WIRING FILL >30%).
 * 1- 3/4" C. (WIRING FILL >40%).

U-Street East Pre-Inspection Field Verification 9/30/2014

XFMR for Panel EF (Breaker #7 - 125/3P)

EXISTING PANEL "WF"											
AMPERES: 400		VOLTS: 120/208		MOUNTING: SURFACE							
MAINS: 250A MCB		PHASE: 3		LOCATION: ELECTRICAL EQUIPMENT ROOM 212							
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1							
LOAD DESCRIPTION	KVA	AMP	POLE	NO	CKT NO.	POLE	AMP	KVA	LOAD DESCRIPTION		
EXISTING VENDOR	0.8	20	1	1	A -	2	1	20	0.0	SPARE	
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	0.0	SPARE	
EXISTING LOAD CENTER "KES"	3.3	40	3	15	- B -	16	1	20	0.8	EXISTING VENDOR	
	2.5	-	-	17	- - C	18	1	20	0.8	EXISTING VENDOR	
	2.5	-	-	19	A -	20	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)	1
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8	SPARE (KIOSK)	18.2
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR	
SPACE	0.0	-	-	25	A -	26	-	-	0.0	SPACE	
SPACE	0.0	-	-	27	- B -	28	-	-	0.0	SPACE	
SPACE	0.0	-	-	29	- - C	30	-	-	0.0	SPACE	
SPACE	0.0	-	-	31	A -	32	-	-	0.0	SPACE	
SPACE	0.0	-	-	33	- B -	34	-	-	0.0	SPACE	
SPACE	0.0	-	-	35	- - C	36	-	-	0.0	SPACE	
SPACE	0.0	-	-	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	4.4 x 50%		2.2 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	21.9 KVA	TOTAL DEMAND KVA	20.5 KVA
		TOTAL DEMAND AMPS	56.8 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	5.7 KVA
PHASE B	8.1 KVA
PHASE C	8.1 KVA

NOTES: A. EXISTING PANEL "WF" IS FED FROM 277/480V, 3φ, 4W EXISTING SWITCHBOARD "SWBD WEST" LOCATED IN AC SWBD, RM. 106, #3-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E10).

B. EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
 * 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 2- 3/4" C. (WIRING FILL >30%).
 EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 3- 3" C. (1-EMPTY CONDUIT & 2-WIRING FILL >30%).

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. MO	DATE 08-14	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
DRAWN C. MO	DATE 08-14				
CHECKED D. BMS	DATE 08-14				
APPROVED J/A	DATE				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

GFP A Gambell Fleming/Parsons JOINT VENTURE

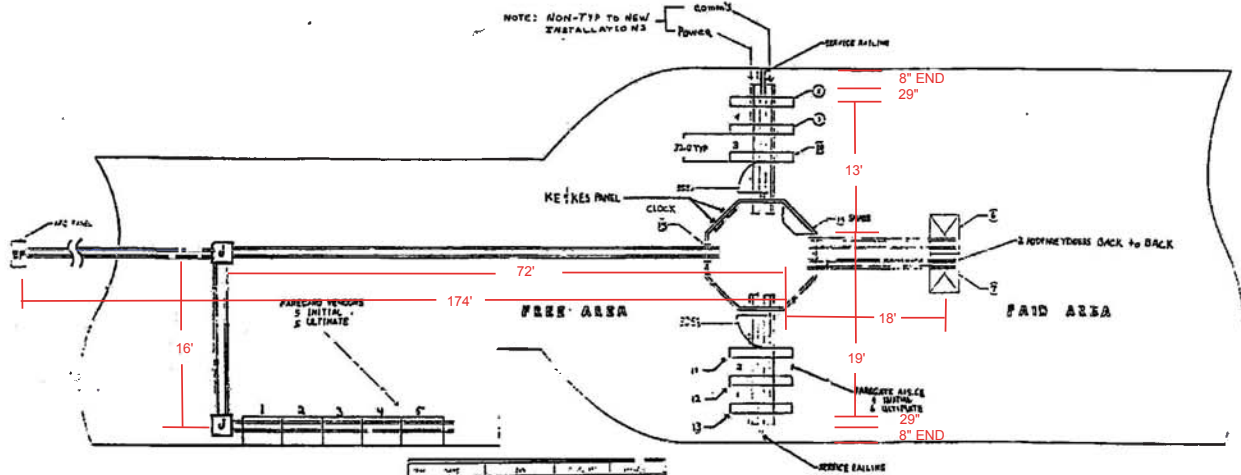
SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRO RAIL STATIONS U STREET - EAST & WEST PANEL SCHEDULES

SCALE: NOT TO SCALE

DRAWING NO. E03-E-102

Pre-Inspection Field
Verification 9/30/2014



NOTE: NON-TYP TO NEW/REINSTALLATED NS

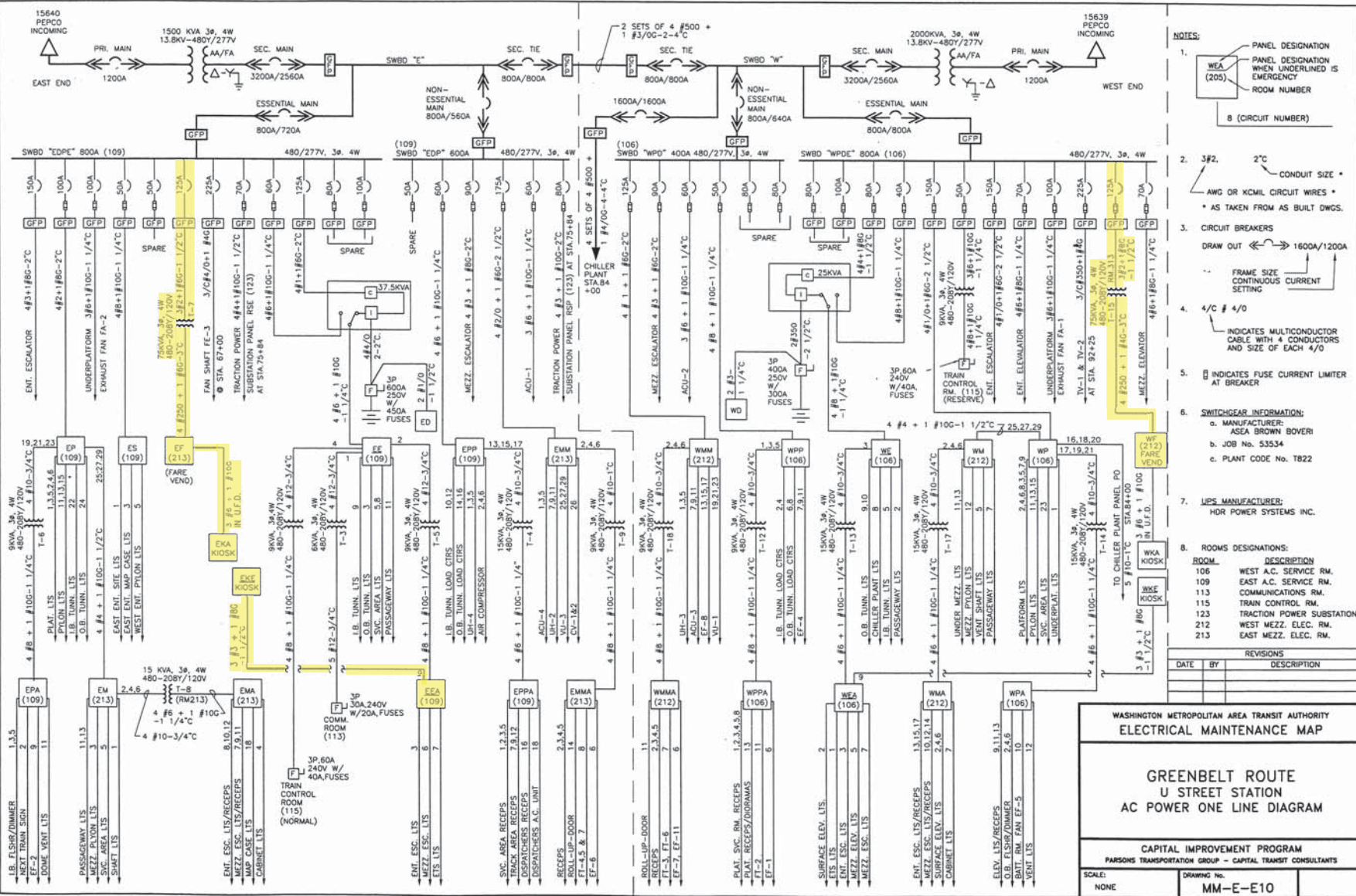
Item	Name	Qty	Unit	Notes
1	VN1862	WF	9	
2	VN1872		7	
3	VN1867		5	
4	VN1865		3	
5	VN1863		1	
6	AF2832		18	
7	AF2831		16	
8	XG4808		5	
9	RG7880		4	
10	EG3811		4	
11	XG4816		12	
12	RG7825		10	
13	EG3863		1	
14	SM8811	KE	8	
15	95719	KES	4	
16	EMER	KE	4	

UNION WESTERN
D ST. EAST STATION
35-36




Pre-Inspection Field Verification 9/30/2014

0:\ELECT\NewMaintMap\E-Route\MM-E-10.dwg Wed Jun 14 11:43:54 2000 LP



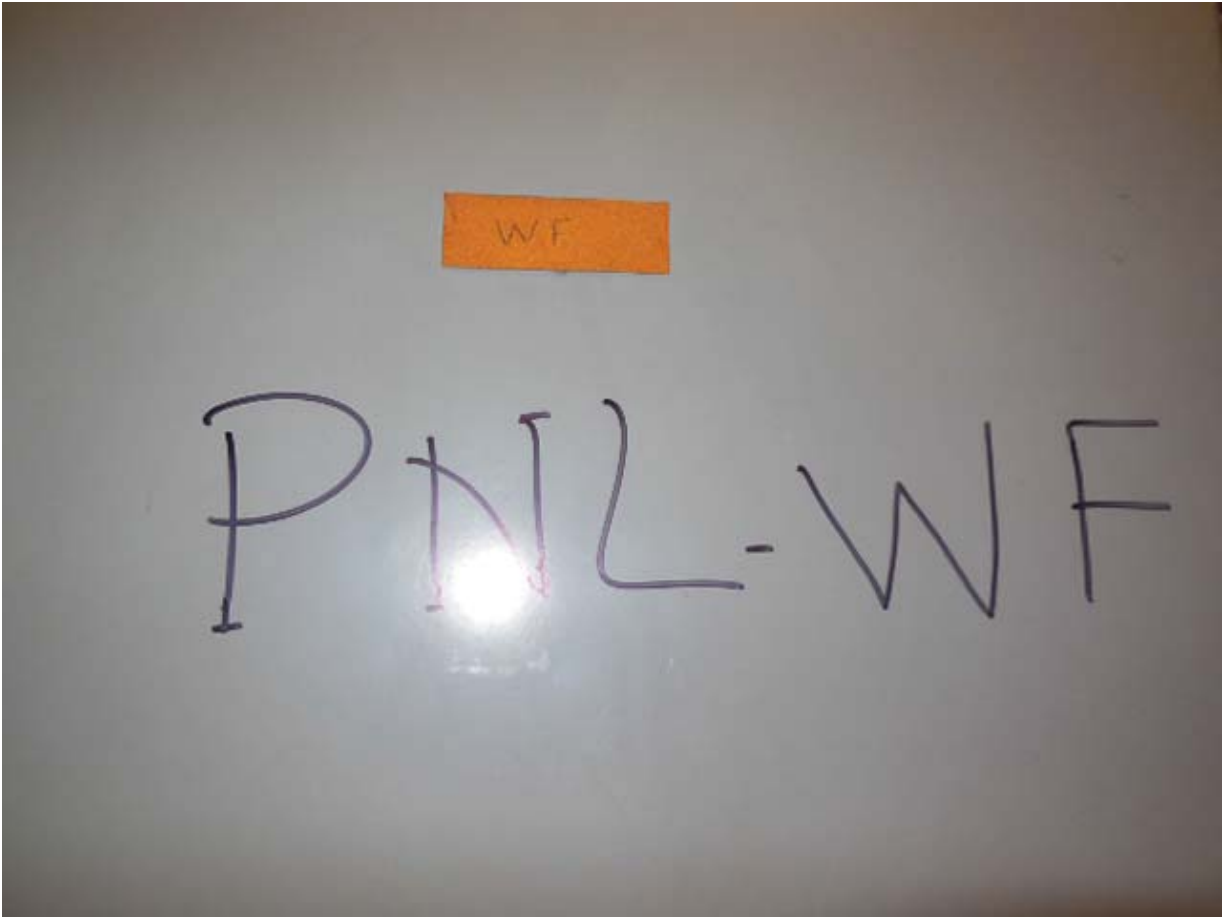
Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/30/2014	Station Name: U Street - West - E03	Mezzanine #: 074	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 West / Essential SWBD Source Breaker Name/Number: SWBD Panel WF (Circuit #3) Electrical AFC Panel Name/Number: WF	Rm 106 Rm 106 Rm 212	AC SWBD Rm 106 is located on Platform level, wayside of Track 1.
<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: 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 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: AFC		Run could be problematic. (100+ ft) Very long run from AFC Panel WF to Kiosk with intermediate manhole. Water in room adjacent to AFC Panel.
<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 conduits/ducts are 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: Panel WEA Source Breaker Name/Number: Circuit #9 Panel Name/Number: Panel WKE	Rm 106 Rm 106 Kiosk	
Notes and Discrepancies: Panel 2 in Kiosk (breaker #4) de-energizes emergency power to faregates.				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	09/30/2014			

Picture 1: E03 U Street West – Intermediate manhole in mezzanine



Picture 2: E03 U Street West - AFC Panel WF in Room 212



Picture 3: E03 U Street West - AFC Panel WF in Room 212



Picture 4: E03 U Street West - AFC Panel WF in Room 212



Picture 5: E03 U Street West - AFC Panel WF in Room 212



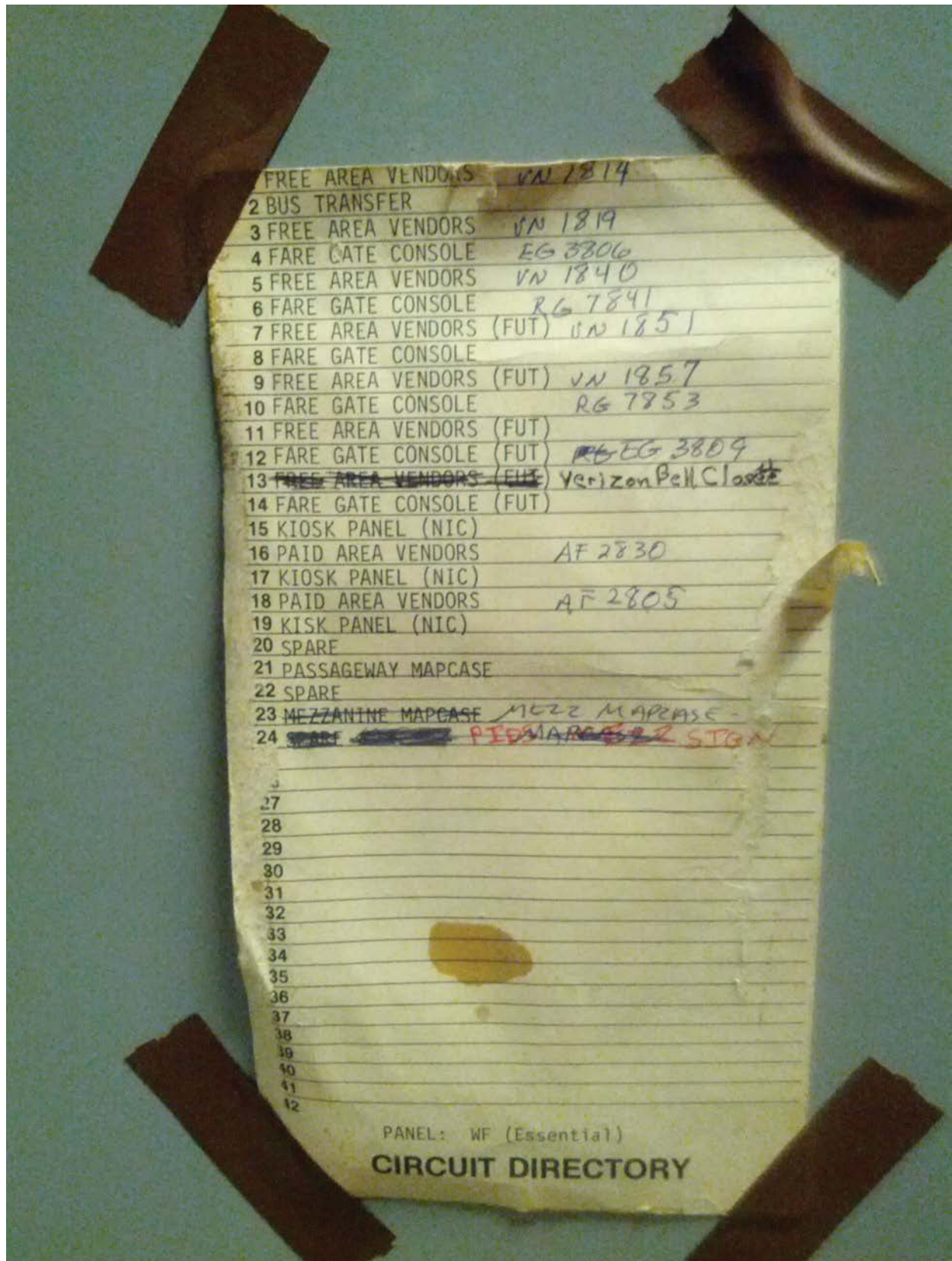
Picture 6: E03 U Street West - AFC Panel WF bottom conduits in Room 212



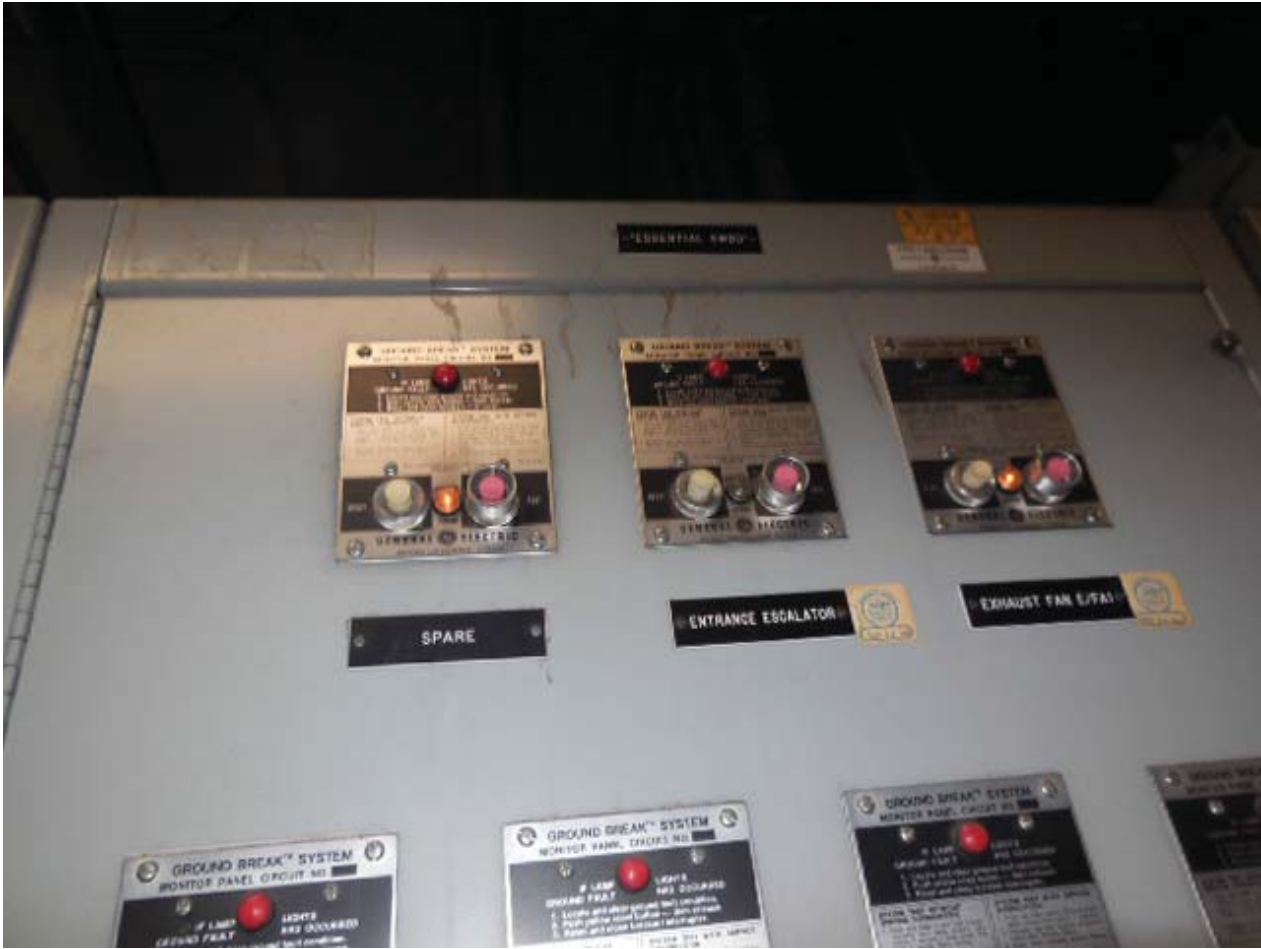
Picture 7: E03 U Street West - AFC Panel WF bottom conduits in Room 212



Picture 8: E03 U Street West – AFC Panel WF schedule in Room 212



Picture 9: E03 U Street West - Essential SWBD



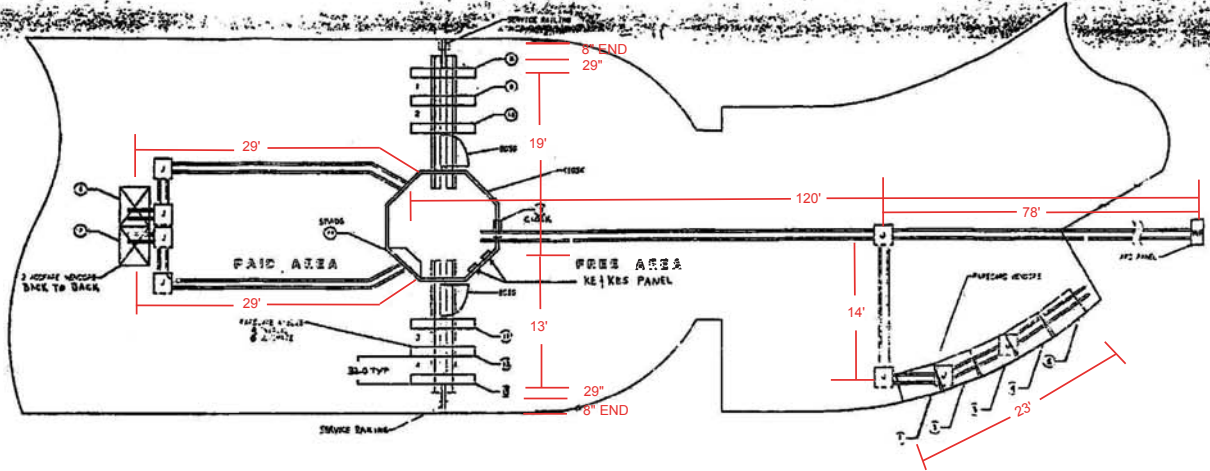
Picture 10: E03 U Street West – Essential SWBD – Panel WF Circuit 3



Picture 11: E03 U Street West – Standing water in room adjacent to AFC Panel



Pre-Inspection Field
Verification 9/30/2014



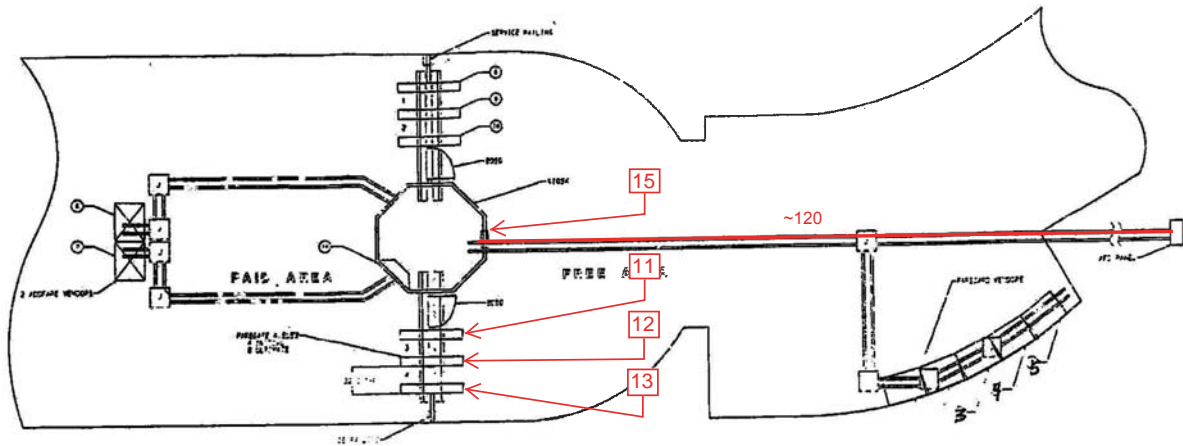
NO.	TYPE	NO.	TYPE	NO.
1	VP 227	VN1857	WF	9
2	VP 227	VN1851	-	7
3	VP 227	VN1840	-	5
4	VP 227	VN1819	-	3
5	VP 227	VN1814	-	2
6	VP 227	AF2830	-	16
7	VP 227	AF2805	-	18
8	VP 227	EG3809	-	12
9	VP 227	RG7853	-	10
10	VP 227	XG4814	-	4
11	VP 227	EG3806	-	4
12	VP 227	RG7841	-	6
13	VP 227	XG4810	-	3
14	VP 227	SM8814	KE	1
15	VP 227	-	KES	8
16	VP 227	EMER	KE	4

1. DATE: _____ 2. TIME: _____ 3. BY: _____
 4. LOCATION: _____ 5. COMMENTS: _____
 6. APPROVED: _____ 7. SIGNATURE: _____
 8. CHECKED: _____ 9. DATE: _____

74 ✓

Pre-Inspection Field
Verification 9/30/2014

UNCLASSIFIED//FOR OFFICIAL USE ONLY
14-00000

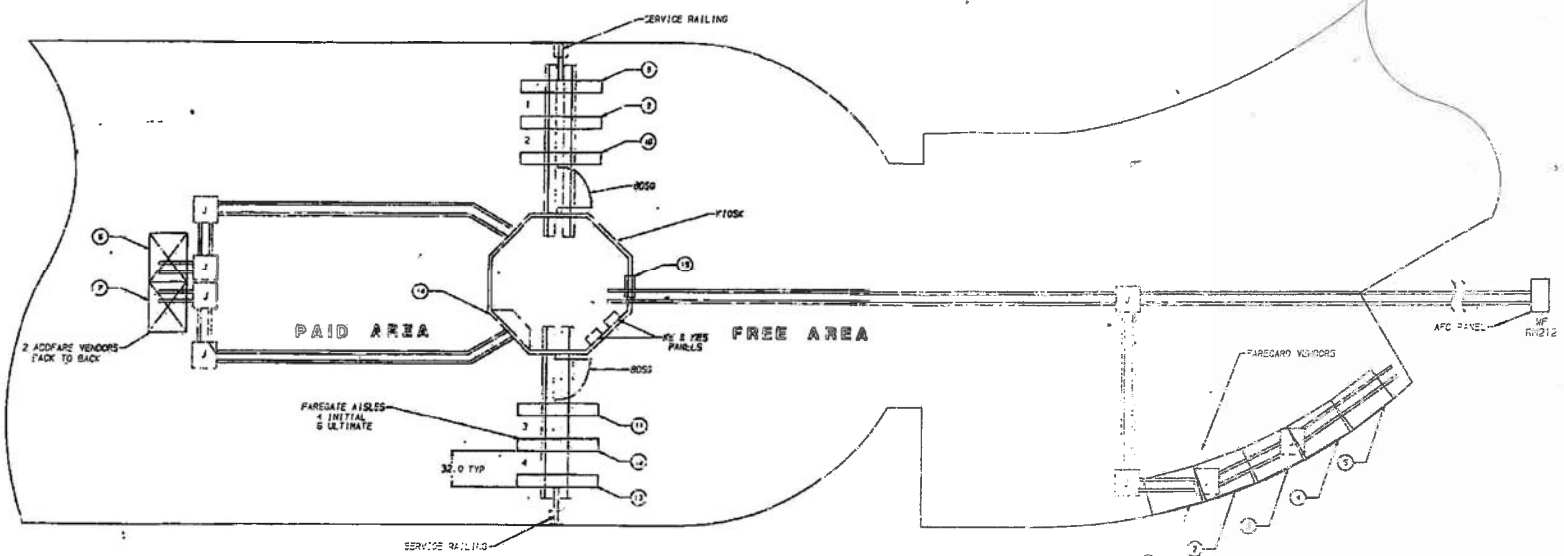


NO.	UNIT	SN	TYPE	QTY
1	W/STC	VN1857	WF	9
2	W/STC	VN1851		7
3	W/STC	VN1840		5
4	W/STC	VN1819		3
5	W/STC	VN1814		1
6	W/STC	AF2830		16
7	W/STC	AF2805		18
8	W/STC	EG3809		12
9	W/STC	RG7853		10
10	W/STC	XG4814		8
11	W/STC	EG3806		4
12	W/STC	RG7841		6
13	W/STC	XG4810		4
14	W/STC	SM8814	KE	1
15	W/STC		KE	8
16	W/STC		KE	4
17	EMER		KE	4

CSGIC, WESTERN DATA
U.S. NAVY STATION
PACIFIC LANTAN
31-0216

74 ✓

Pre-Inspection Field
 Verification 9/30/2014



MEZZANINE NO. 74

NOTES:

- VENDOR AND HOURS INSTALLATION SEE [illegible]
- FOR VMSDS INSTALLATION SEE [illegible]
- ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION [illegible]
- BI-DIRECTIONAL SERVICE GATE INSTALLATION [illegible]
- A TYPICAL MEZZANINE INSTALLATION SEE [illegible]
- CIRCUIT BREAKERS WITH COMMON NEUTRAL:
 7 & 9; 1, 3 & 5; 16 & 18; 10 & 12; 4 & 6.

ITEM	QTY	SYM	PAK. QTY	REV. NO.
1	VENDOR	1857	MF	8
2	VENDOR	1888	MF	7
3	VENDOR	1840	MF	5
4	VENDOR	1818	MF	4
5	VENDOR	1814	MF	1
6	COFARS	2,120	MF	MF
7	ADDFARE	2018	MF	10
8	ENTRY GATE	3820	MF	8
9	EXIT GATE	7823	MF	10
10	EXIT GATE	4814	MF	N/A
11	ENTRY GATE	3809	MF	4
12	REV. GATE	7841	MF	6
13	EXIT GATE	4810	MF	
14	SHADE	8814	KE	1
15	SMOKE CLOCK	4812	KE	8
16	EYEBALL		SC	1

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 1000 10th Street, N.W.
 Washington, DC 20004

EXISTING PANEL "EF"														
AMPERES: 400			VOLTS: 120/208			MOUNTING: SURFACE								
MAINS: 250A MCB			PHASE: 3			LOCATION: ELECTRICAL EQUIPMENT ROOM 213								
RATING: 10K AIC			WIRE: 4			SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	AMP	POLE	NO	CKT NO.	POLE	AMP	KVA	LOAD DESCRIPTION	KVA	AMP	POLE	NO	
EXISTING VENDOR	0.8	20	1	1	A	-	2	1	20	0.0				
EXISTING VENDOR	0.8	20	1	3	B	-	4	1	20	0.8				
EXISTING VENDOR	0.8	20	1	5	C	-	6	1	20	0.8				
EXISTING VENDOR	0.8	20	1	7	A	-	8	1	20	0.8				
EXISTING VENDOR	0.8	20	1	9	B	-	10	1	20	0.8				
EXISTING VENDOR	0.8	20	1	11	C	-	12	1	20	0.8				
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	13	A	-	14	1	20	0.8				
EXISTING LOAD CENTER "KES"	3.3	40	3	15	B	-	16	1	20	0.8				
	2.5	-	-	17	C	-	18	1	20	0.8				
	2.5	-	-	19	A	-	20	1	20	0.0				
EXISTING VENDOR	0.0	20	1	21	B	-	22	1	20	0.8				
EXISTING VENDOR	0.0	20	1	23	C	-	24	1	20	0.8				
SPACE	0.0	-	-	25	A	-	26	1	20	0.0				
SPACE	0.0	-	-	27	B	-	28	1	20	0.0				
SPACE	0.0	-	-	29	C	-	30	1	20	0.0				
SPACE	0.0	-	-	31	A	-	32	1	20	0.0				
SPACE	0.0	-	-	33	B	-	34	1	20	0.0				
SPACE	0.0	-	-	35	C	-	36	1	20	0.0				
SPACE	0.0	-	-	37	A	-	38	1	20	0.0				
SPACE	0.0	-	-	39	B	-	40	1	20	0.0				
SPACE	0.0	-	-	41	C	-	42	1	20	0.0				
	0.0	-	-	43	A	-	44	1	20	0.0				

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	4.4 x 50%	2.2 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	21.9 KVA	TOTAL DEMAND KVA 20.5 KVA
		TOTAL DEMAND AMPS 56.8 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	6.5 KVA	
PHASE B	8.1 KVA	
PHASE C	7.3 KVA	

NOTES: A. EXISTING PANEL "EF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "SWBD EAST" LOCATED IN AC SWBD, RM. 106, #7-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E10).
B. EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 2- 3" C. (WIRING FILL >30%).
* 1- 3/4" C. (WIRING FILL >40%).

U-Street West
Pre-Inspection Field
Verification 9/30/2014

EXISTING PANEL "WF"														
AMPERES: 400			VOLTS: 120/208			MOUNTING: SURFACE								
MAINS: 250A MCB			PHASE: 3			LOCATION: ELECTRICAL EQUIPMENT ROOM 212								
RATING: 10K AIC			WIRE: 4			SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	AMP	POLE	NO	CKT NO.	POLE	AMP	KVA	LOAD DESCRIPTION	KVA	AMP	POLE	NO	
EXISTING VENDOR	0.8	20	1	1	A	-	2	1	20	0.0				
EXISTING VENDOR	0.8	20	1	3	B	-	4	1	20	0.8				
EXISTING VENDOR	0.8	20	1	5	C	-	6	1	20	0.8				
EXISTING VENDOR	0.8	20	1	7	A	-	8	1	20	0.8				
EXISTING VENDOR	0.8	20	1	9	B	-	10	1	20	0.8				
EXISTING VENDOR	0.8	20	1	11	C	-	12	1	20	0.8				
SPARE	0.0	20	1	13	A	-	14	1	20	0.0				
EXISTING LOAD CENTER "KES"	3.3	40	3	15	B	-	16	1	20	0.8				
	2.5	-	-	17	C	-	18	1	20	0.8				
	2.5	-	-	19	A	-	20	1	20	0.0				
EXISTING VENDOR	0.8	20	1	21	B	-	22	1	20	0.8				
EXISTING VENDOR	0.8	20	1	23	C	-	24	1	20	0.8				
SPACE	0.0	-	-	25	A	-	26	-	-	0.0				
SPACE	0.0	-	-	27	B	-	28	-	-	0.0				
SPACE	0.0	-	-	29	C	-	30	-	-	0.0				
SPACE	0.0	-	-	31	A	-	32	-	-	0.0				
SPACE	0.0	-	-	33	B	-	34	-	-	0.0				
SPACE	0.0	-	-	35	C	-	36	-	-	0.0				
SPACE	0.0	-	-	37	A	-	38	-	-	0.0				
SPACE	0.0	-	-	39	B	-	40	-	-	0.0				
SPACE	0.0	-	-	41	C	-	42	-	-	0.0				

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	4.4 x 50%	2.2 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	21.9 KVA	TOTAL DEMAND KVA 20.5 KVA
		TOTAL DEMAND AMPS 56.8 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	5.7 KVA	
PHASE B	8.1 KVA	
PHASE C	8.1 KVA	

NOTES: A. EXISTING PANEL "WF" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "SWBD WEST" LOCATED IN AC SWBD, RM. 106, #3-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E10).
B. EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
* 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM TOP OF PANEL BY:
* 2- 3/4" C. (WIRING FILL >30%).
EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 3- 3" C. (1-EMPTY CONDUIT & 2-WIRING FILL >30%).

Essential SWBD
Track 1 Wayside

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED C. MO	DATE 08-14	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
DRAWN C. MO	DATE 08-14				
CHECKED D. BMS	DATE 08-14				
APPROVED J/A	DATE				


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

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRO RAIL STATIONS
U STREET - EAST & WEST
PANEL SCHEDULES

SCALE: NOT TO SCALE
DRAWING NO. E03-E-102

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014		Station Name: Georgia Ave - E05		Mezzanine #: 076		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:	Panel SAES		Rm C219		
		Source Breaker Name/Number:	Breaker #37, 39, 41		Rm C219		
		Electrical AFC Panel Name/Number:	MESS Essential		Rm C213		
<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"/>		Power duct run from Kiosk to AFC Panel is approx. 53' with one manhole in room C213. Four small manholes on paid side of Kiosk for access to faregate array ducts.	
		RAIL <input type="checkbox"/>	CMNT <input type="checkbox"/>				
		Other Access/Support: AFC					
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access?	NO			No as-built AFC installation plan. Segment 1 of AFC Power run is duct from Kiosk to manhole in room C213. Segment 2 is manhole to duct. Segment 3 is duct to 2" conduit embedded in floor.	
		Identified Conduit/Duct Transition to mezzanine level?	UNDETERMINED				
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		
		Source Breaker Name/Number:	Breakers #8,10		Kiosk		
		Panel Name/Number:	Emergency Power to Faregates				
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:	Tino Sahoo						
Signature:							
Date:	10/28/2014						

Picture 1: E05 Georgia Ave – Handholes on paid-side of mezzanine for faregate duct access



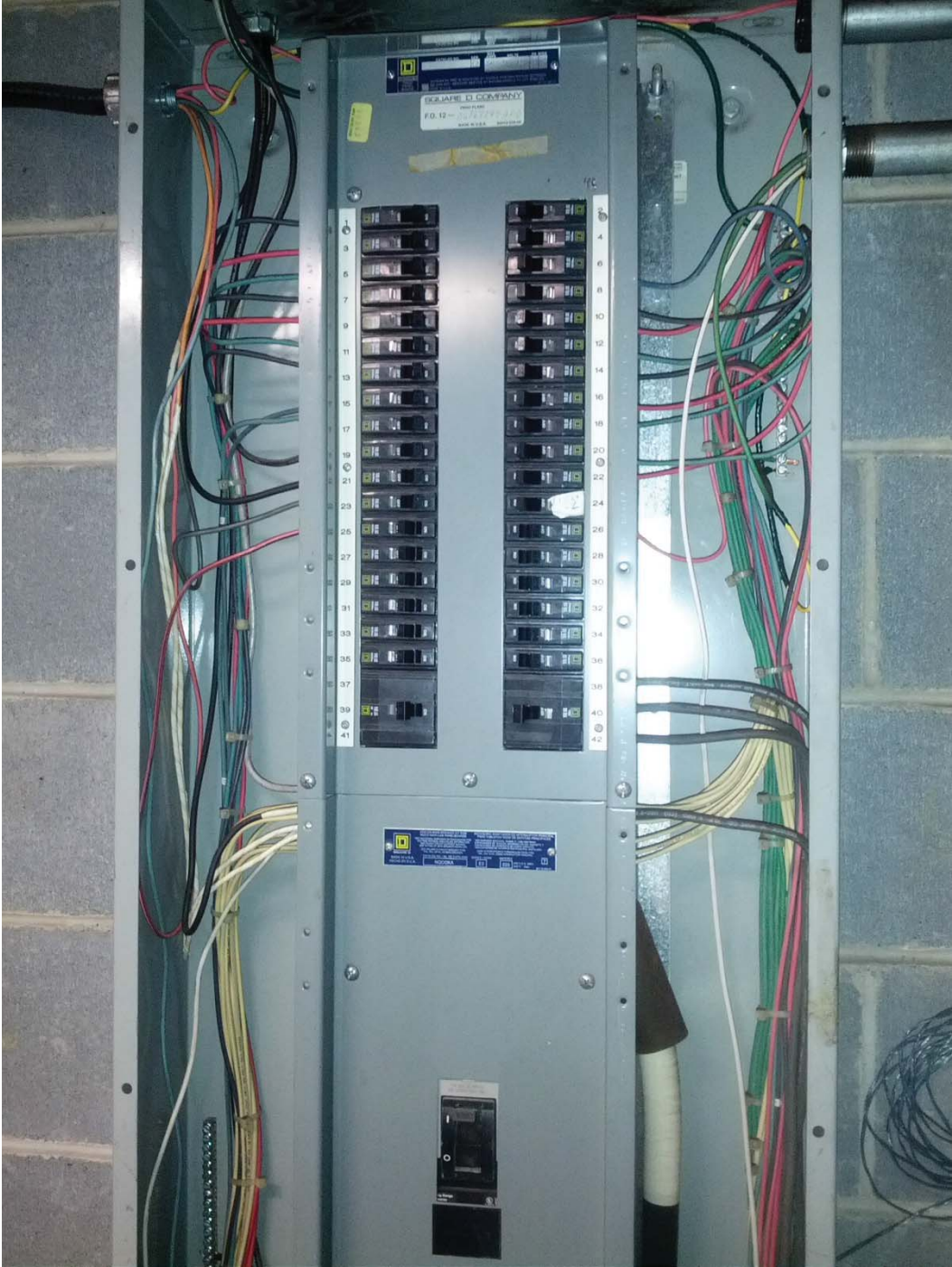
Picture 2: E05 Georgia Ave – Manhole in room C213



Picture 3: E05 Georgia Ave – AFC Panel MESS ESSE in room C213



Picture 4: E05 Georgia Ave – AFC Panel MESS ESSE in room C213



Pictures 5-7: E05 Georgia Ave – AFC Panel MESS ESSE in room C213, bottom conduits



Picture 8: E05 Georgia Ave – AFC Panel MESS ESSE in room C213, panel schedule

↓ Gates ↓

PANELBOARD / PANNEAU / TABLERO MESS (ESSENTIAL)

120/208V, 3P DATE: 5/30/97
 225A MAIN FEED: TRANSFORMER T-8 (SAES)

CIR.	LOAD / CHARGE / CARGA	CIR.	LOAD / CHARGE / CARGA
1	FARE CARD VENDING # 30	2	BUS FARE DISPENSERS
3	FARE CARD VENDING 31	4	BUS FARE DISPENSERS
5	FARE CARD VENDING 32	6	MAP CASE LIGHTING
7	FARE CARD VENDING 33	8	FARE GATE CONSOLES # 11
9	FUTURE FARE CARD VENDING 34	10	FARE GATE CONSOLES
11	FUTURE FARE CARD VENDING 35	12	FARE GATE CONSOLES
13	FUTURE FARE CARD VENDING 36	14	FARE GATE CONSOLES
15	ADD FARE VENDING	16	FARE GATE CONSOLES
17	ADD FARE VENDING	18	FARE GATE CONSOLES
19	ELEC. ROOM EXHAUST FAN	20	FUTURE FARE GATE CONSOLES
21	SPARE CTRL PNL. DOME FANS	22	FUTURE FARE GATE CONSOLES
23	SPARE TDM #1	24	SPARE TDM #2
25	SPARE TDM #1	26	SPACE
27	SPARE	28	SPACE
29	SPACE	30	SPACE
31	SPACE	32	SPACE
33	SPACE	34	SPACE
35	SPACE	36	SPACE
37	SPACE	38	PANEL KESS
39	SPACE	40	PANEL KESS
41	SPACE	42	PANEL KESS

SQUARE D COMPANY

MADE IN U.S.A. FABRIQUE AUX E.U. HECHO EN E.U.A. 80031-158-01

Picture 9: E05 Georgia Ave – Panel SAES in room C219



Picture 10: E05 Georgia Ave – Panel SAES in room C219, Circuits 37,39,41



Picture 11: E05 Georgia Ave – Panel SAES in room C219, panel schedule

PANEL	SAES	FED FROM
1	EF-7	2 SPACE
3	EF-7	4 SPACE
5	EF-7	6 SPACE
7	VU-3	8 VU-4
9	VU-3	10 VU-4
11	VU-3	12 VU-4
13	E/FA-1	14 DV FAN #1
15	E/FA-1	16 DV FAN #1
17	E/FA-1	18 DV FAN #1
19	EF-6	20 SPARE
21	EF-6	22 SPARE
23	EF-6	24 SPARE
25	SPARE P1AS } P146-1	26 SPARE
27	SPARE P1AS } 512	28 SPARE
29	SPARE P1AS } P146-1	30 SPARE
31	SPARE	32 SPARE
33	SPARE	34 SPARE
35	SPARE	36 SPARE
37	MESS T-8	38 SPACE
39	MESS T-8	40 SPACE
41	MESS T-8	42 SPACE

NEMA NUMBERING

PAN
CIR.
1
3
5
7
9
11
13
15
17
19
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25
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29
31
33
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47
49
51
53

Pre-Inspection Field
Verification 10/28/2014

EXISTING PANEL "MESS" ESSENTIAL										
AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE						
MAINS: 225 MCB		PHASE: 3		LOCATION: ELECTRICAL ROOM C213 ✓						
RATING: 10K AC		WIRE: 4		SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CTKT. NO.	CTKT. POLE	AMP	KVA	LOAD DESCRIPTION	
EXISTING VENDOR	0.8	20	1	1	A	-	2	1	20	0.0 SPARE
EXISTING VENDOR	0.8	20	1	3	B	-	4	1	20	0.0 SPARE
EXISTING VENDOR	0.8	20	1	5	-	-	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	-	-	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	-	-	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	-	-	24	1	20	0.8 EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	25	A	-	26	1	20	0.0 SPARE
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	27	B	-	28	1	20	0.0 SPARE
1&2 SPARE (KIOSK)	0.0	20	1	29	-	-	30	1	20	0.0 SPARE
SPARE	0.0	20	1	31	A	-	32	1	20	0.0 SPARE
SPARE	0.0	20	1	33	B	-	34	1	20	0.0 SPARE
SPARE	0.0	20	1	35	-	-	36	1	20	0.0 SPARE
SPARE	0.0	20	3	37	A	-	38	3	100	3.3 EXIST. KIOSK LOAD CENTER "MES"
	0.0	-	-	39	B	-	40	-	-	2.5
	0.0	-	-	41	-	-	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	10.0 x 50%	5.0 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	27.5 KVA	TOTAL DEMAND KVA 23.3 KVA
		TOTAL DEMAND AMPS 64.6 AMPS

CONNECTED LOAD PHASE SUMMARY	
PHASE A	9.7 KVA
PHASE B	8.9 KVA
PHASE C	6.4 KVA

Breakers #37,39,41

NOTES: A. EXISTING PANEL "MESS" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "SAES" LOCATED IN AC SWDB. RM. C219, CIRCUIT #39,37,39-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E18).
 B. EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 2-1/2" C. (WIRING FILL >40%). EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
 * 2-3/4" C. (1-WIRING FILL >40% & 1-EMPTY).
 EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
 * 1-1 1/2" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1-1/2" C. (WIRING FILL >40%).

DESIGNED: C. HED	DATE: 08-14	REFERENCE DRAWINGS		REVISIONS		
		NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION
DRAWN: C. HED	DATE: 08-14					
CHECKED: A. HED	DATE: 08-14					
APPROVED: N/A	DATE:					

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 _____

CONTRACT NO. 14-FQ10060-CENI-24

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRO RAIL STATIONS
 GEORGIA AVENUE PANEL SCHEDULE

SCALE: NOT TO SCALE DRAWING NO. E05-E-102

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/11/2014	Station Name: E07 West Hyattsville	Mezzanine # 077	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: SWBD - A Source Breaker Name/Number: "PANEL F" Circuit #6 Electrical AFC Panel Name/Number: F	108 108 114	
<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 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		All conduits/ducts are one level; handhole access is required.

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	Oscar Ilagan
Signature:		
Date:	9/11/14	

Photo #1: E07 West Hyattsville – Handhole in mezzanine floor



Photo #2: E07 West Hyattsville – Handhole in mezzanine floor



Photo #3: E07 West Hyattsville – Handhole in mezzanine level corridor



Photo #4: E07 West Hyattsville – Panel F in Room 108



Photo #5: E07 West Hyattsville – Panel F in Room 108



Photo #6: E07 West Hyattsville – SWBD-A in Room 108



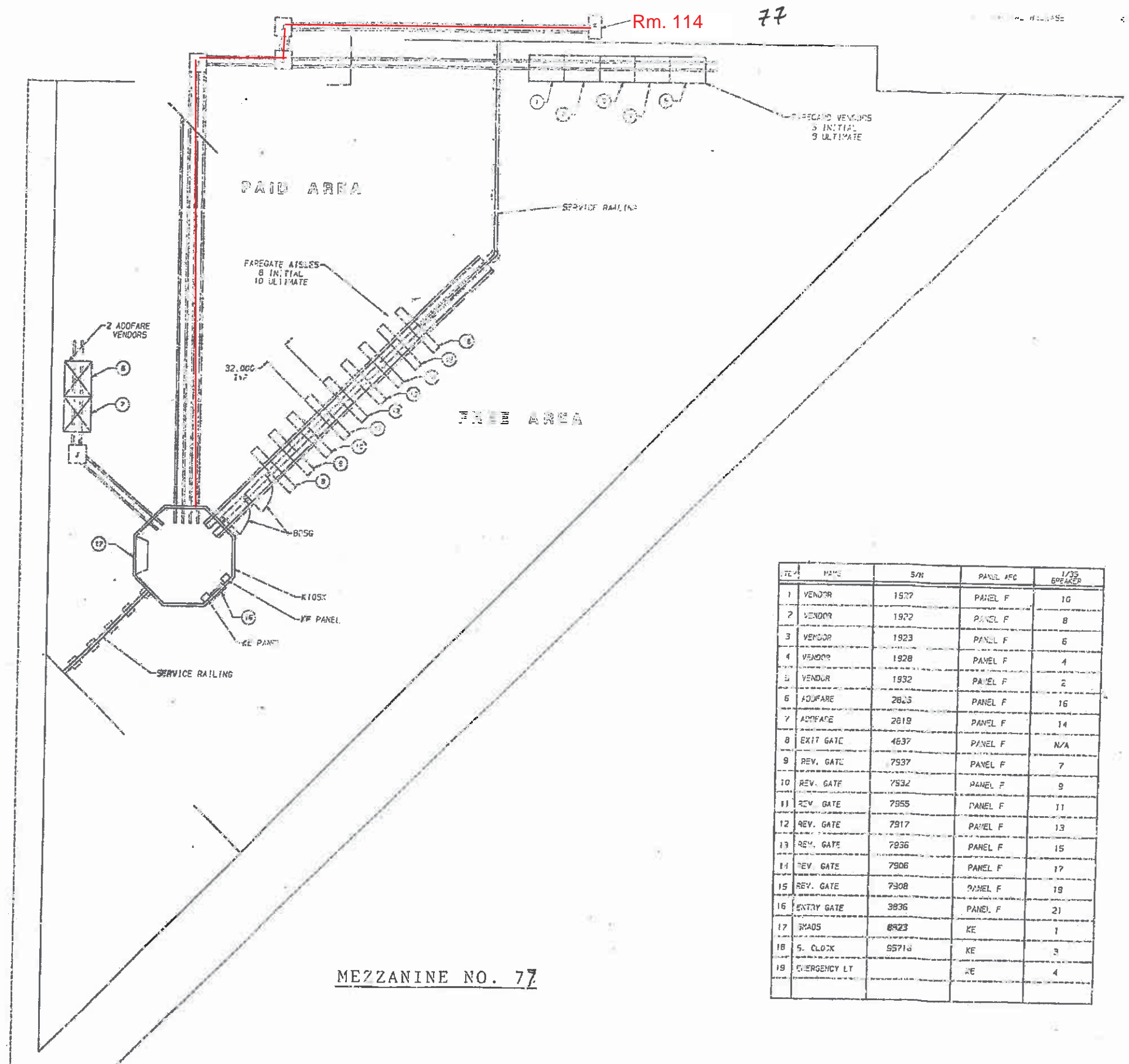
Photo #7: E07 West Hyattsville – SWBD A breaker for Panel F in Room 108



NOTES:

1. FC: VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FC: SKADS INSTALLATION SEE 931-4001.
3. FC: ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FC: B1-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FC: A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON NEUTRAL:
2, 4 & 6, 8 & 10, 7, 9 & 11, 13, 15 & 17, 19 & 21.

Pre-inspection Field Verification
9/11/2014



MEZZANINE NO. 77

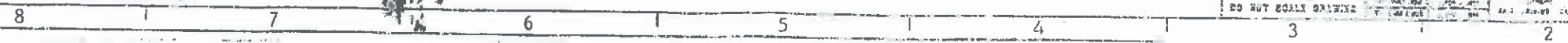
ITEM	NAME	S/N	PANEL A/C	1/32 BREAKER
1	VENDOR	1577	PANEL F	10
2	VENDOR	1922	PANEL F	8
3	VENDOR	1923	PANEL F	6
4	VENDOR	1928	PANEL F	4
5	VENDOR	1932	PANEL F	2
6	ADDFARE	2825	PANEL F	16
7	ADDFARE	2819	PANEL F	14
8	EXIT GATE	4637	PANEL F	N/A
9	REV. GATE	7537	PANEL F	7
10	REV. GATE	7532	PANEL F	9
11	REV. GATE	7955	PANEL F	11
12	REV. GATE	7917	PANEL F	13
13	REV. GATE	7936	PANEL F	15
14	REV. GATE	7906	PANEL F	17
15	REV. GATE	7908	PANEL F	19
16	ENTRY GATE	3836	PANEL F	21
17	SKADS	8923	KE	1
18	S. CLODK	55716	KE	3
19	EMERGENCY LT		KE	4

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SEE SEPARATE PL. FOR DIMENSIONS AND NOTES. DIMENSIONS ARE IN FEET AND INCHES. DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.

DATE: 9/11/14
 DRAWN BY: [Name]
 CHECKED BY: [Name]

CUBIC WESTERN DATA
 W. HYATTSVILLE STATION
 MEZZANINE LAYOUT
 931-4021



Pre-inspection Field Verification
9/11/2014

EXISTING PANEL "F"											
AMPERES: 250		VOLTS: 120/208		MOUNTING: SURFACE							
MANS: 250 AMPS		PHASE: 3		LOCATION: ELECTRICAL EQUIPMENT ROOM 114							
RATING: 100% AC		WIRE: 4		SECTION: 1 OF 1							
LOAD DESCRIPTION	KVA	CKT BKRS			CKT. NO.	POLE	CKT. NO.	CKT BKRS			LOAD DESCRIPTION
		AMP	POLE	NO.				AMP	KVA		
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	3.6	20	1	5	C	8	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	8	B	10	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	11	C	12	1	20	0.0	SPARE	
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	18	A	20	1	20	0.0	SPARE (KIOSK)	
EXISTING VENDOR	0.8	20	1	21	B	22	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	23	C	24	1	20	0.0	SPARE	
SPARE	0.0	20	1	25	A	26	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	27	B	28	1	20	0.0	SPARE	
SPARE	0.0	20	1	29	C	30	1	20	0.0	SPARE	
SPARE	0.0	20	1	31	A	32	1	20	0.0	SPARE	
SPARE	0.0	20	1	33	B	34	1	20	0.0	SPARE	
SPARE	0.0	20	1	35	C	36	1	20	0.0	SPARE	
SPARE	0.0	20	1	37	A	38	1	20	0.0	SPARE	
	0.0	-	-	39	B	40	1	20	0.0	SPARE	
	0.0	-	-	41	C	42	1	20	0.0	SPARE	

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 28A, 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	6.8 x 50%	3.4 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	0.0 x 125%	0.0 KVA
AC	0.0 x 100%	0.0 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	16.8 KVA	TOTAL DEMAND KVA 13.4 KVA
		TOTAL DEMAND AMPS 37.2 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	6.8 KVA
PHASE B	6.4 KVA
PHASE C	4.8 KVA

NOTES: A. EXISTING PANEL "F" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "SWBD-A" LOCATED IN AC SWBD. RM. 108, CIRCUIT #6-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MI-E-24).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
 * 1-1/2" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
 * 2-1" C. (WIRING FILL >40%).
 * 1-1" C. (WIRING FILL >20%).
 * 1-1" EMPTY CONDUIT.

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
C. 100	08-14				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE
AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM



APPROVED _____

SUBMITTED _____
PROJECT MANAGER

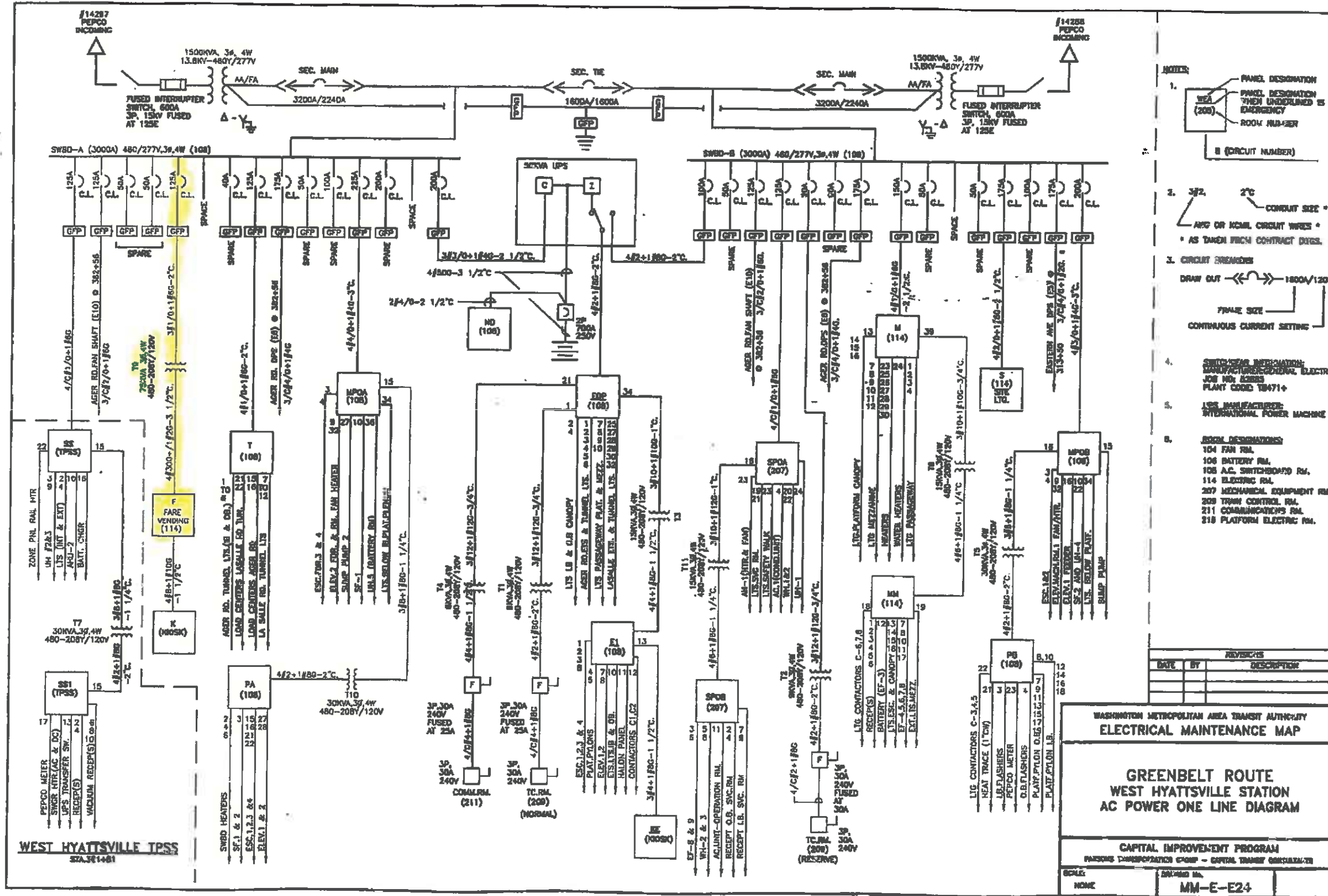
NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
WEST HYATTSVILLE
PANEL SCHEDULE

SCALE
NOT TO SCALE

DRAWING NO.
E07-E-102

Pre-inspection Field Verification
9/11/2014

D:\ELECT\NewMaintMap\E-Route\MM-E-E24.dwg Thu Jun 15 15:49:32 2000 LP



Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/11/2014	Station Name: Prince George's Plaza	Mezzanine # 078	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: Switchboard #1 Source Breaker Name/Number: "PANEL-KESS" Circuit #2 Electrical AFC Panel Name/Number: KESS	130 130 210	Switchboard #1 located in AC SWBD Room 130. AFC Panel "KESS" located in Room 210 on mezzanine floor.
<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 checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support: AFC		
<input 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? NO		All conduits/ducts are on one level.

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:	9/11/14	

Photo #1: E08 Prince George's Plaza –Handhole in mezzanine floor



Photo #2: E08 Prince George's Plaza – Bottom of Panel KESS in room 210



Photo #3: E08 Prince George's Plaza – Panel KESS in room 210



Photo #4: E08 Prince George's Plaza – Panel KESS in room 210



Photo #5: E08 Prince George's Plaza – SWBD breaker for Panel KESS in room 130 near track#1

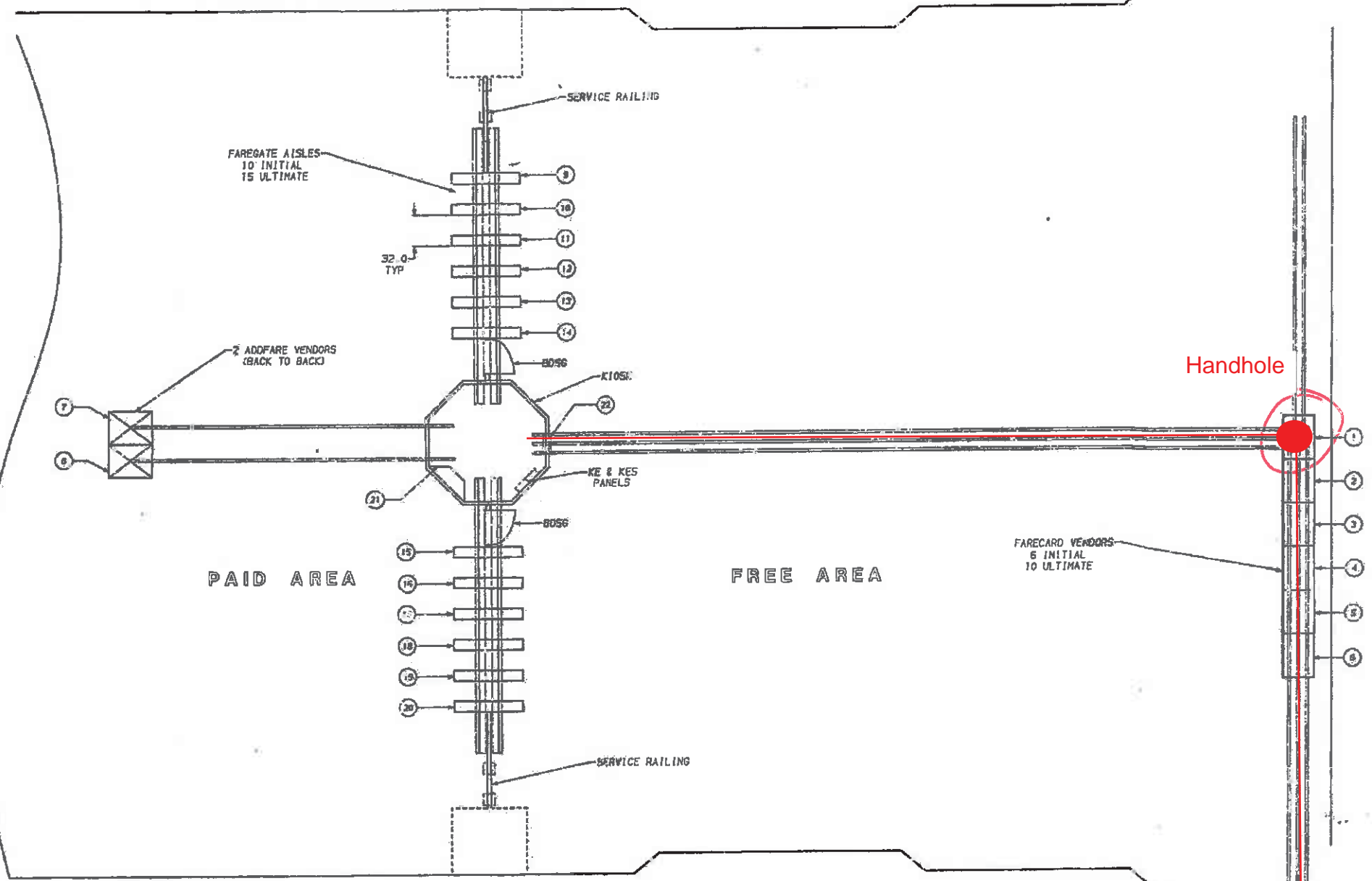


Photo #3: E08 Prince George's Plaza – Top of Panel KESS in room 210



Pre-inspection Field Verification
9/11/2014

ITEM	NAME	S/N	PANEL AFC	1/35 BREAKER
1	VENDOR	1940	KESS	7
2	VENDOR	1933	KESS	9
3	VENDOR	1941	KESS	11
4	VENDOR	1935	KESS	13
5	VENDOR	1939	KESS	15
6	VENDOR	1942	KESS	17
7	ADDFARE	2827	KESS	21
8	ADDFARE	2838	KESS	19
9	ENTRY GATE	FUTURE	KESS	N/A
10	REV. GATE	7934	KESS	2
11	REV. GATE	7909	KESS	4
12	REV. GATE	7930	KESS	8
13	REV. GATE	7938	KESS	8
14	EXIT GATE	4835	KESS	N/A
15	ENTRY GATE	3837	KESS	10
16	REV. GATE	7931	KESS	12
17	REV. GATE	7915	KESS	14
18	REV. GATE	7920	KESS	16
19	REV. GATE	7928	KESS	18
20	REV. GATE	7913	KESS	N/A
21	SMADS	8803	KE	1
22	S. CLOCK	88918	KE	6
23	EMERGENCY LT		KE	4



NOTES:

1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SMADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON NEUTRAL:
3, 7 & 9; 13, 15 & 17; 19 & 21; 2, 4 & 6; 10 & 12; 14, 16 & 18.

MEZZANINE NO. 78

AFC PANEL
KESS
RM 210
Rm. 210

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DATE	DESCRIPTION	DATE	DESCRIPTION
11/11/14	INITIAL RELEASE	12/14/14	WHS 12.14.14

SEE SEPARATE PL SHEET #114 NUMBERS ARE USED UNLESS OTHERWISE NOTED IN LIST OF VIEW SYMBOLS	SCALE OF GRAPH 3/4"=1'-0" ALL DIMENSIONS ARE UNLESS OTHERWISE NOTED IN LIST OF VIEW SYMBOLS	DATE OF DRAWING 11/11/14 DRAWN BY J. W. HARRIS CHECKED BY J. W. HARRIS DATE OF CHECK 11/11/14	PROJECT NAME BRIDGE GEORGE'S STATION MEZZANINE LAYOUT
NEXT ASSY. XXX-XXX/XXX	DATE OF DRAWING 11/11/14	DATE OF CHECK 11/11/14	PROJECT NO. 931-4024
DO NOT SCALE DRAWING	DATE OF DRAWING 11/11/14	DATE OF CHECK 11/11/14	PROJECT NO. 931-4024

Pre-inspection Field Verification
9/11/2014

EXISTING PANEL "KESS"									
AMPERES: 400		VOLTS: 120/208		MOUNTING: SURFACE					
MANS: 250A/1CB		PHASE: 3		LOCATION: ELECTRICAL EQUIPMENT ROOM 210 ✓					
RATING: 10K/AC		WIRE: 4		SECTION: 1 OF 1					
LOAD DESCRIPTION	KVA	CKT BRKS			CKT. NO.	POLE	AMP	KVA	LOAD DESCRIPTION
		R/P	POLE	NO.					
EXIST. KIOSK LOAD CENTER "KES"	2.9	30	3	1	A - -	2	1	20	0.8 EXISTING VENDOR
	2.6	-	-	3	- B -	4	1	20	0.8 EXISTING VENDOR
	2.5	-	-	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 NEW KIOSK RECEPT. (JT & NEPP) ✓
EXISTING VENDOR	0.8	20	1	21	- B -	22	1	20	0.8 SPARE (KIOSK) ✓
EXISTING VENDOR	0.8	20	1	23	- - C	24	1	20	0.8 SPARE
EXISTING VENDOR	0.8	20	1	25	A - -	26	1	20	0.8 SPARE
EXISTING VENDOR	0.8	20	1	27	- B -	28	1	20	0.8 SPARE
EXISTING VENDOR	0.8	20	1	29	- - C	30	1	20	0.8 SPARE
EXISTING VENDOR	0.8	20	1	31	A - -	32	1	20	0.8 SPARE
EXISTING VENDOR	0.8	20	1	33	- B -	34	1	20	0.8 SPARE
EXISTING VENDOR	0.8	20	1	35	- - C	36	1	20	0.8 SPARE
EXISTING VENDOR	0.8	20	1	37	A - -	38	1	20	0.8 SPARE
EXISTING VENDOR	0.8	20	1	39	- B -	40	2	60	0.8 SPARE
EXISTING VENDOR	0.8	20	1	41	- - C	42	-	-	0.8 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	12.8 x 50%	6.4 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	30.3 KVA	TOTAL DEMAND KVA 24.7 KVA
		TOTAL DEMAND AMPS 68.5 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	10.9 KVA	
PHASE B:	8.7 KVA	
PHASE C:	8.7 KVA	

NOTES: A. EXISTING PANEL "KESS" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "SW BD #1" LOCATED IN AC SWBD. RM. 150, CIRCUIT #2-125/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. WM-E-28).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
• 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
• 2-3/4" C. (WIRING FILL >40%).
• 1-1/2" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
• 2-Ø 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
• 1-1 1/2" EMPTY CONDUIT.
• 1-3/4" EMPTY CONDUIT.

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
C. 20	08-14				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF TRANSIT INFRASTRUCTURE
AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM



APPROVED _____

SUBMITTED _____
PROJECT MANAGER

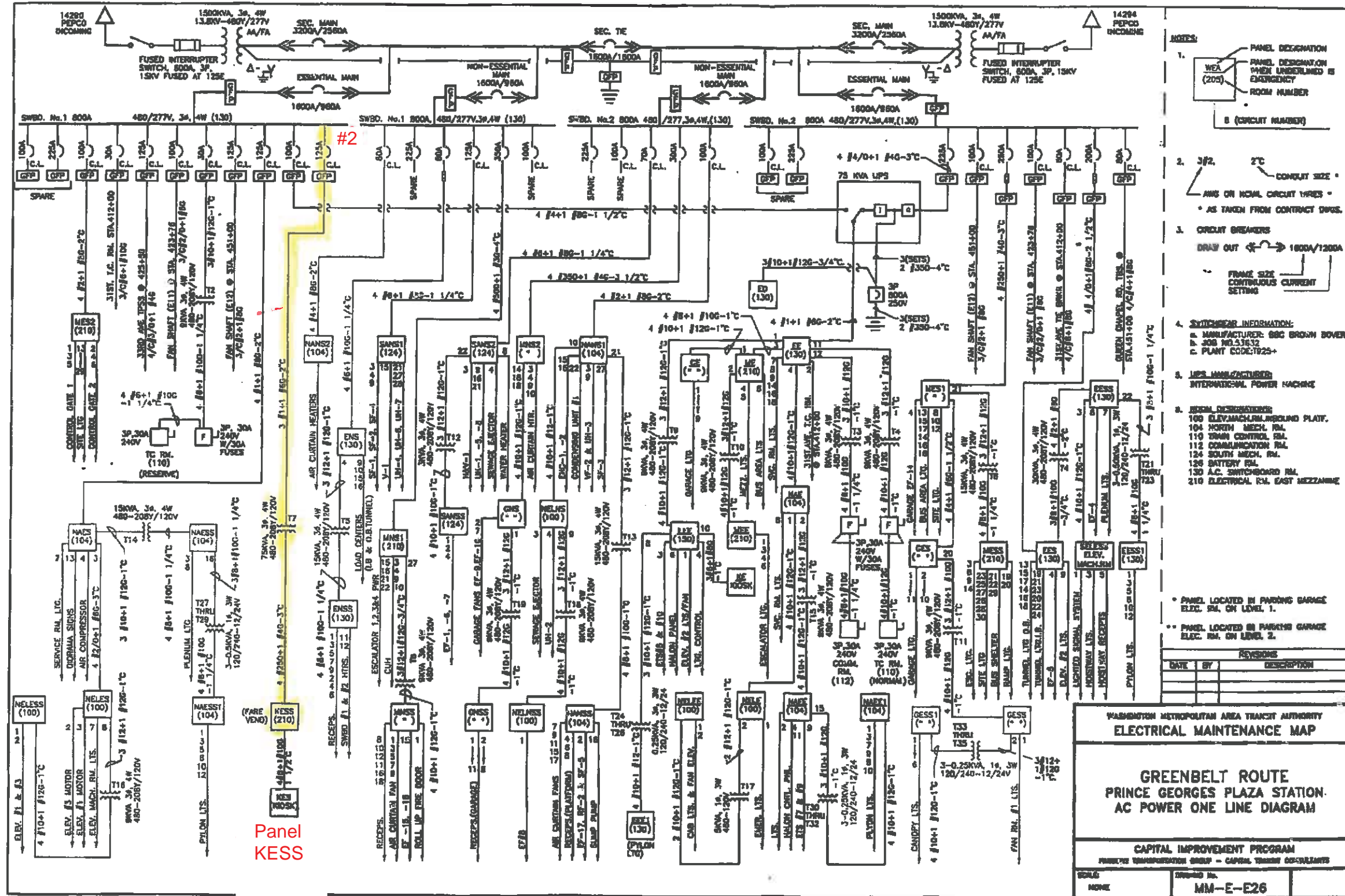
NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
PRINCE GEORGE PLAZA
PANEL SCHEDULE

SCALE
NOT TO SCALE

DRAWING NO.
E08-E-102

Pre-inspection Field Verification
9/11/2014

C:\ELECT\NewMap\Map\E-Route\MM-E-E26.dwg Fri Jun 15 17:33:02 2000 LP



NOTES:
1. PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY ROOM NUMBER

2. 3/2. 2" CONDUIT SIZE -
ANS OR NCAI CIRCUIT TYPES -
AS TAKEN FROM CONTRACT DWGS.
3. CIRCUIT BREAKERS
DRAW OUT 1800A/1200A
FRAME SIZE
CONTINUOUS CURRENT
SETTING

4. SWITCHGEAR INFORMATION:
M MANUFACTURER: GEC BROWN BOVERI
P JOB NO: 53632
C PLANT CODE: 1925+

5. UPS MANUFACTURER:
INTERNATIONAL POWER MACHINE

6. PANEL DESIGNATIONS:
100 ELEVATOR PLUMBING PLAT.
104 NORTH MECH. RM.
110 SWAN CONTROL RM.
112 COMMUNICATION RM.
124 SOUTH MECH. RM.
126 BATTERY RM.
130 A.C. SWITCHBOARD RM.
210 ELECTRICAL RM. EAST MEZZANINE

* PANEL LOCATED IN PARKING GARAGE
ELEC. RM. ON LEVEL 1.
** PANEL LOCATED IN PARKING GARAGE
ELEC. RM. ON LEVEL 2.

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**GREENBELT ROUTE
PRINCE GEORGES PLAZA STATION.
AC POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
PRINCE GEORGES TRANSPORTATION GROUP - CAPITAL TRIM COORDINATOR

SCALE NONE	DRAWING NO. MM-E-E26
---------------	-------------------------

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/11/2014	Station Name: E09 College Park	Mezzanine # 079	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: CL Source Breaker Name/Number: Disconnect Switch "DS4/T4" Electrical AFC Panel Name/Number: F1	C100/104 C100/104 C100/104	Located in room C104, which is inside room C100.
<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: DS4/T4 SMNT/POWR escorts: LOW Voltage	C104	
<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 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		Handhole access required in hallway on mezzanine floor. All conduits / ducts and on the same level.

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:	09/11/2014	

Photo #1: E09 College Park – Handholes in Mezzanine Floor



Photo #2: E09 College Park – Handholes in hallway



Photo #3: E09 College Park – Ducts at bottom of Panel F1 in Room C104



Photo #4: E09 College Park – Panel F1 in Room C104



Photo #5: E09 College Park – Panel F1 in Room C104



Photo #6: E09 College Park – Schedule of Panel F1 in Room C104

PANEL F1		CIRCUIT DIRECTORY	
1		2	SPARE
3	KIOSK PEEPER	4	FIELD #10
5		6	FIELD #11
7	SPARE #30	8	FIELD #12
9	#31	10	
11	#32	12	
13	#33	14	
15		16	
17		18	
19	MEZZ	20	
21	SMACRIP	22	SMACRIP
23	SMACRIP	24	
25		26	
27		28	
29		30	
31		32	
33		34	
35		36	
37	SPARC	38	
39	SPARC	40	KIOSK PEEPER
41		42	

114B361H01

Photo #7: E09 College Park – Disconnect Switch DS4/T4 in Room C104

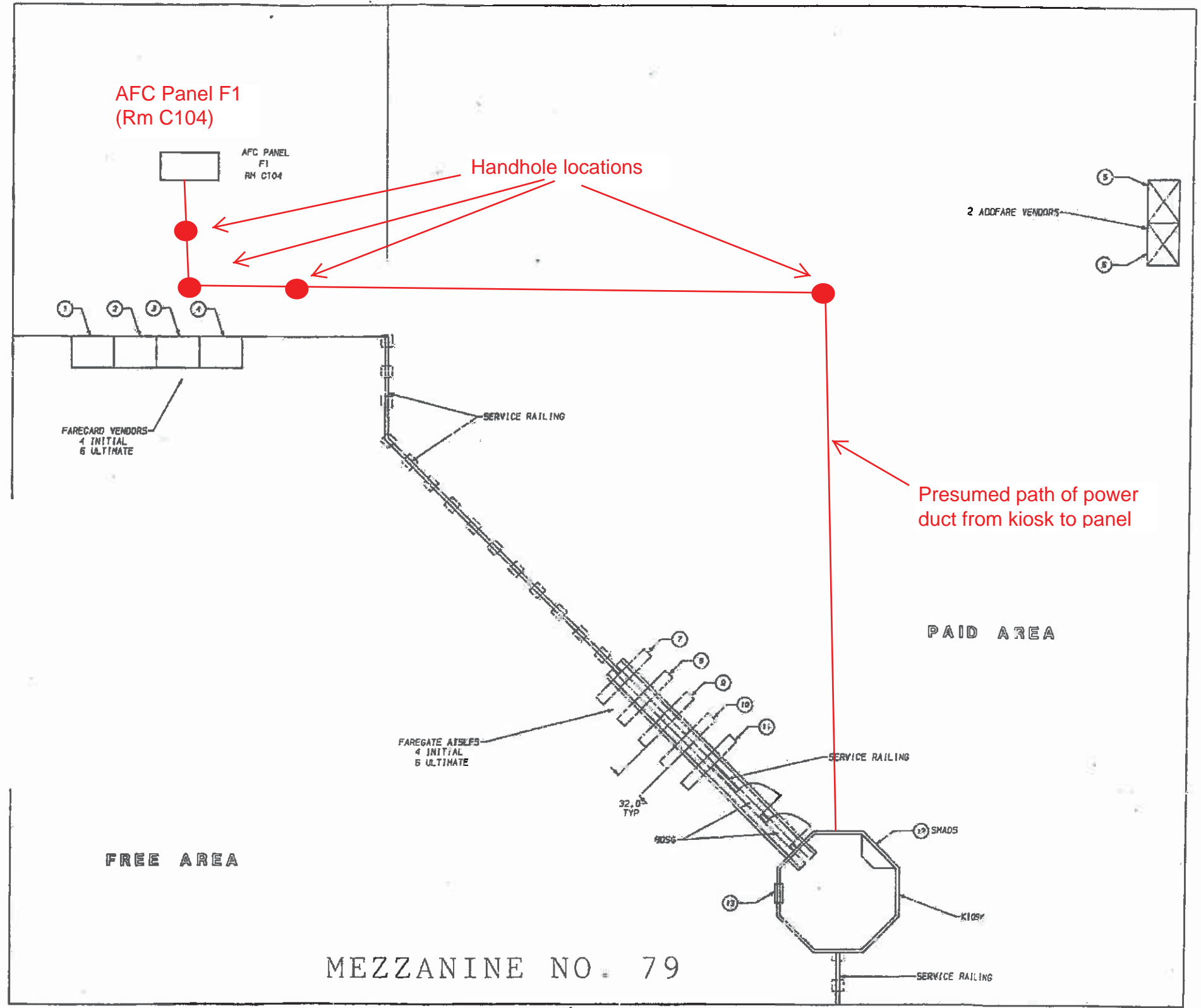


NOTES:

- FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
- FOR SMAOS INSTALLATION SEE 931-4001.
- FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
- FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
- FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
- CIRCUIT BREAKERS WITH COMMON NEUTRAL:
9, 11 & 13; 14 & 16; 2, 4 & 6.

Pre-inspection Field Verification
9/11/2014

ITEM	NAME	S/N	PANEL AFC	1/35 BREAKER
1	VENDOR	1918	F1	7
2	VENDOR	1937	F1	9
3	VENDOR	1908	F1	11
4	VENDOR	1936	F1	13
5	ADDFARE	2828	F1	14
6	ADDFARE	2813	F1	16
7	EXIT GATE	4809	F1	N/A
8	REV. GATE	7828	F1	2
9	REV. GATE	7919	F1	4
10	REV. GATE	7926	F1	6
11	ENTRY GATE	3807	F1	8
12	SMAOS	8819	KE	7
13	S. CLOCK	88913	KE	8
14	EMERGENCY LT		KE	4



Pre-inspection Field Verification
9/11/2014

EXISTING PANEL "F1"										
AMPERES: 250		VOLTS: 120/208		MOUNTING: SURFACE						
MANS: 250AMCB		PHASE: 3		LOCAT-ON: ELEC. EQUIPMENT ROOM C104						
RATING: 10KAC		WRE: 4		SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	CKT. NO.	POLE	AMP	KVA	LOAD DESCRIPTION		
1 NEW KIOSK RECEPT. (T & NEPP)	0.8	20	1	1	A	20	0.8	EXISTING VENDOR		
18.2 SPARE (KIOSK)	0.8	20	1	3	B	20	0.8	EXISTING VENDOR		
SPARE	0.0	20	1	5	C	20	0.0	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	7	A	20	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	9	B	20	0.0	SPARE		
EXISTING VENDOR	0.8	20	1	11	C	20	0.0	SPARE		
EXISTING VENDOR	0.8	20	1	13	A	20	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	15	B	20	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	17	C	20	0.0	SPARE		
EXISTING VENDOR	0.8	20	1	19	A	20	0.0	SPARE		
EXISTING VENDOR	0.8	20	1	21	B	20	0.0	SPARE		
EXISTING VENDOR	0.8	20	1	23	C	20	0.0	SPARE		
SPARE	0.0	20	1	25	A	20	0.0	SPARE		
SPARE	0.0	20	1	27	B	20	0.0	SPARE		
SPARE	0.0	20	1	29	C	20	0.0	SPARE		
SPARE	0.0	20	1	31	A	20	0.0	SPARE		
SPARE	0.0	20	1	33	B	20	0.0	SPARE		
SPARE	0.0	20	1	35	C	20	0.0	SPARE		
SPARE	0.0	20	1	37	A	30	3.3	EXIST. KIOSK LOAD CENTER "KE"		
SPARE	0.0	20	1	39	B	40	2.5			
SPACE	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	3.6 x 50%	1.8 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	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	21.1 KVA	TOTAL DEMAND KVA 26.1 KVA
		TOTAL DEMAND AMPS 55.7 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A	8.9 KVA	
PHASE B	6.5 KVA	
PHASE C	3.2 KVA	

NOTES: A. EXISTING PANEL "F1" IS FED FROM 277/480V, 3φ, 4W EXISTING PANEL "CL" THRU 200A DISC. SW. LOCATED IN ELEC. EQUIPMENT RM. C104, VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E28).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
• 2-1/2" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
• 2-6 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
• 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

CONTRACT NO
14-FQ10080-CENI-24

DESIGNED C. NS	DATE 08-14	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
DRAWN C. NS	DATE 08-14				
CHECKED B. EUL	DATE 08-14				
APPROVED WA	DATE				

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



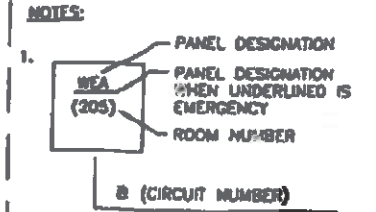
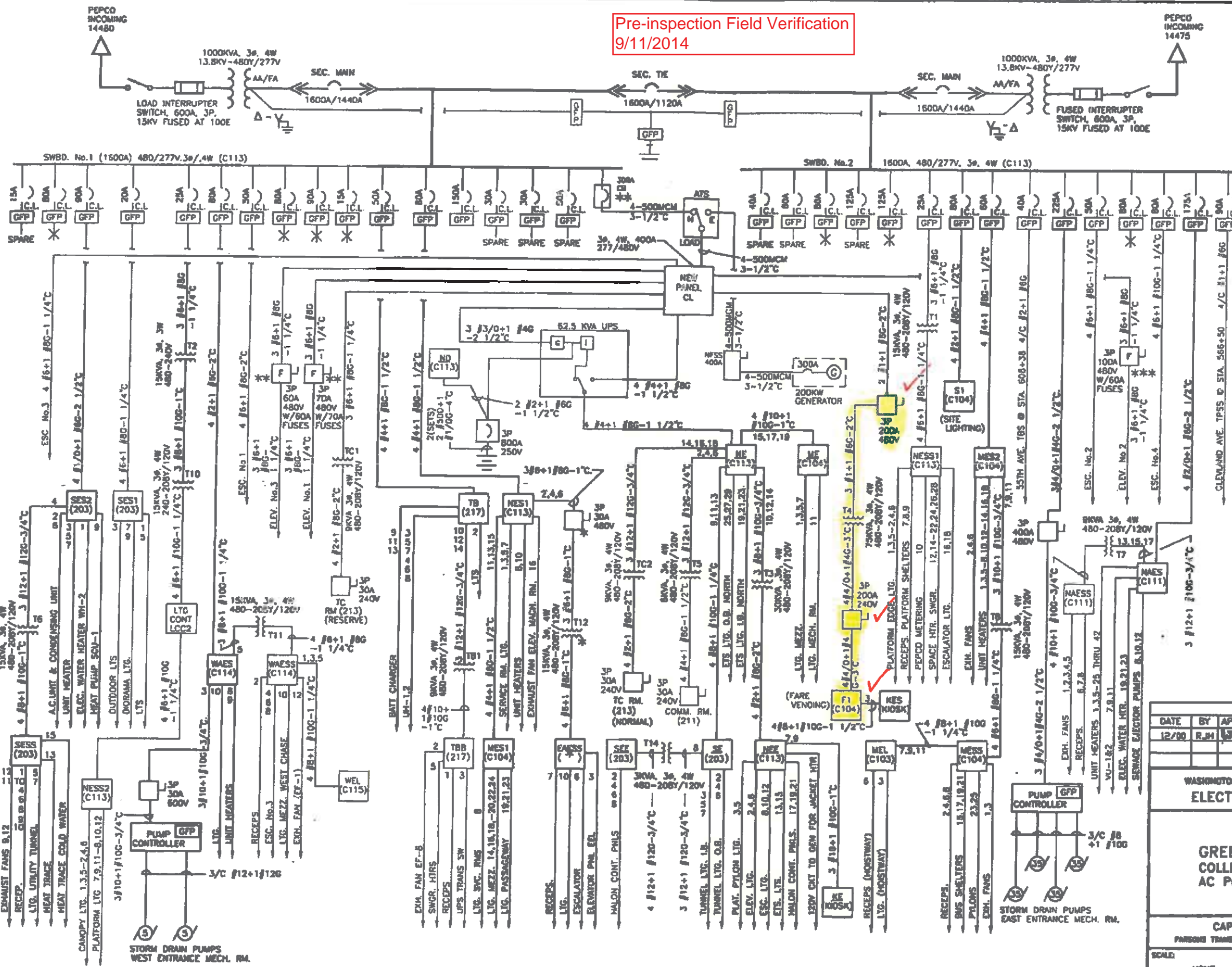
A General Funding/Partners JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRO RAIL STATIONS
COLLEGE PARK
PANEL SCHEDULE

SCALE NOT TO SCALE
DRAWING NO E09-E-102

Pre-inspection Field Verification
9/11/2014



- 3/2. 2" CONDUIT SIZE
ARC OR KCMIL CIRCUIT WIRE *
* AS TAKEN FROM CONTRACT DNGS.
 - CIRCUIT BREAKERS
DRAW OUT ← → 1600A/1200A
FRAME SIZE
CONTINUOUS CURRENT
SETTING
 - SWITCHGEAR INFORMATION:**
a. MANUFACTURER: ASEA BROWN BOVERI
b. JOB NO: 862098
c. PLANT CODE: 8N
 - UPS MANUFACTURER:**
INTERNATIONAL POWER MACHINES
 - ROOM DESIGNATIONS:**
C103 ELEV. MACH. RM.
C104 ELECTRICAL RM.
C111 MEZZ. MECH. RM.
C112 BATTERY RM.
C113 AC SWBD RM.
C114 MECH. RM. WEST
C115 ELEV. MACH. RM. WEST
 - 203 ELECTRICAL RM.
211 COMMUNICATION RM.
213 TRAIN CONTROL RM.
217 THE BREAKER RM.
- * LOCATED IN MECH. RM. ON UPPER LEVEL OF EAST ENTRANCE STORM DRAIN
* MOUNTED ON THE SIDE OF S&SD #1.
* MOUNTED ON THE SIDE OF S&SD #2.

REVISIONS

DATE	BY	APPROV	DESCRIPTION
12/00	RJM	[Signature]	ADDED EMERGENCY GENERATOR

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**GREENBELT ROUTE
COLLEGE PARK STATION (E09)
AC POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL THREAT CONSULTANTS

SCALE: NONE
DRAWING No. **MM-E-E28**

DRAWN: _____ DATE: _____
CHECKED: _____ DATE: _____
APPROVED: _____ DATE: _____

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/11/2014	Station Name: E10 Greenbelt	Mezzanine # 080	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: Switchboard No. 2 Source Breaker Name/Number: Disconnect Switch Electrical AFC Panel Name/Number: Panel FF	C106 C106 C100/106	
<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: NO NAME SMNT/POWR escorts: LOW Voltage	C106	
<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	C106	
<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		Handhole access required. All conduits/duct are on one level.

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:	9/11/14	

Photo #1: E10 Greenbelt – Handholes at Mezzanine



Photo #2: E10 Greenbelt – Handholes at Mezzanine



Photo #3: E10 Greenbelt – Panel FF in Room C106

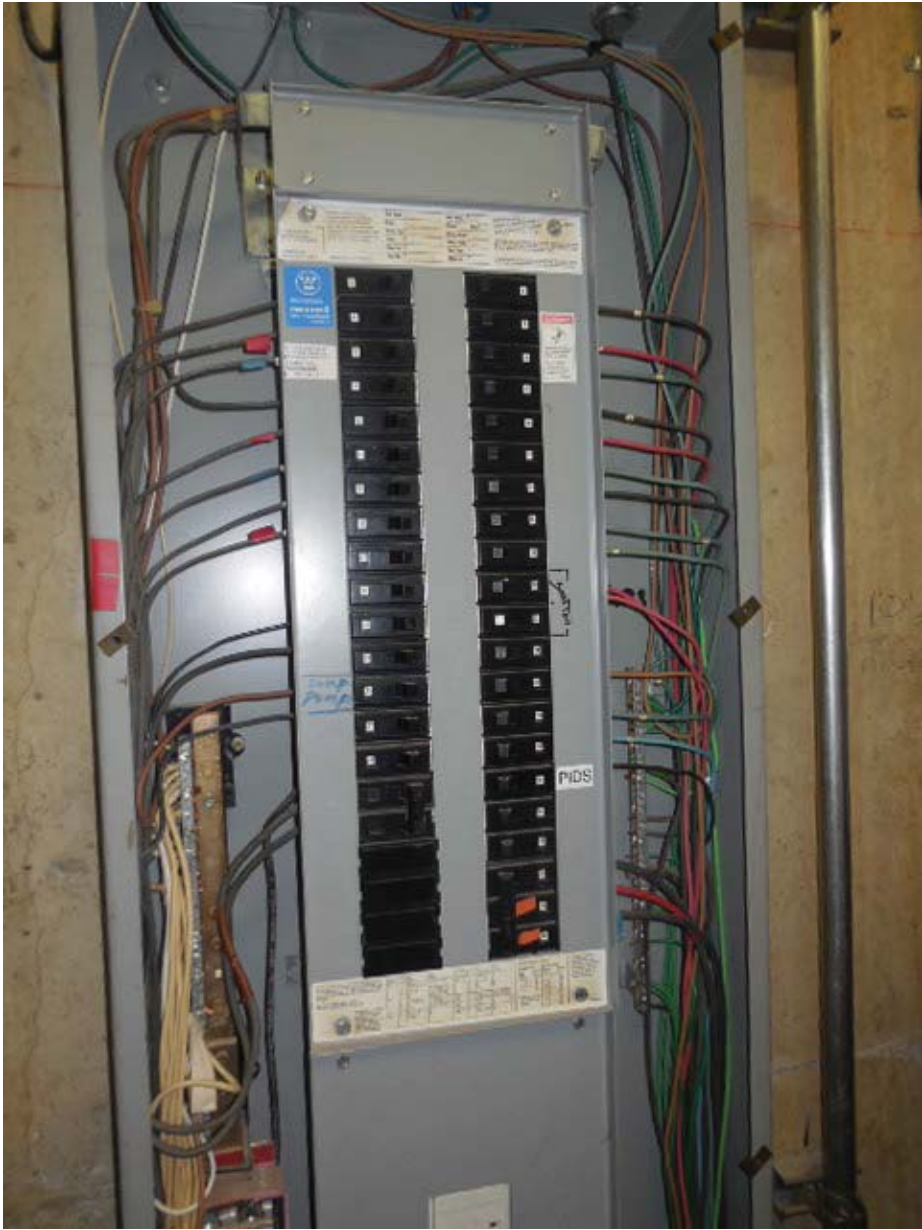


Photo #4: E10 Greenbelt – Ducts below Panel FF in Room C106



Photo #5: E10 Greenbelt – Disconnect Switch in Room C106



Photo #6: E10 Greenbelt – SWBD #2 breaker for Panel FF in Room C106



NOTES:

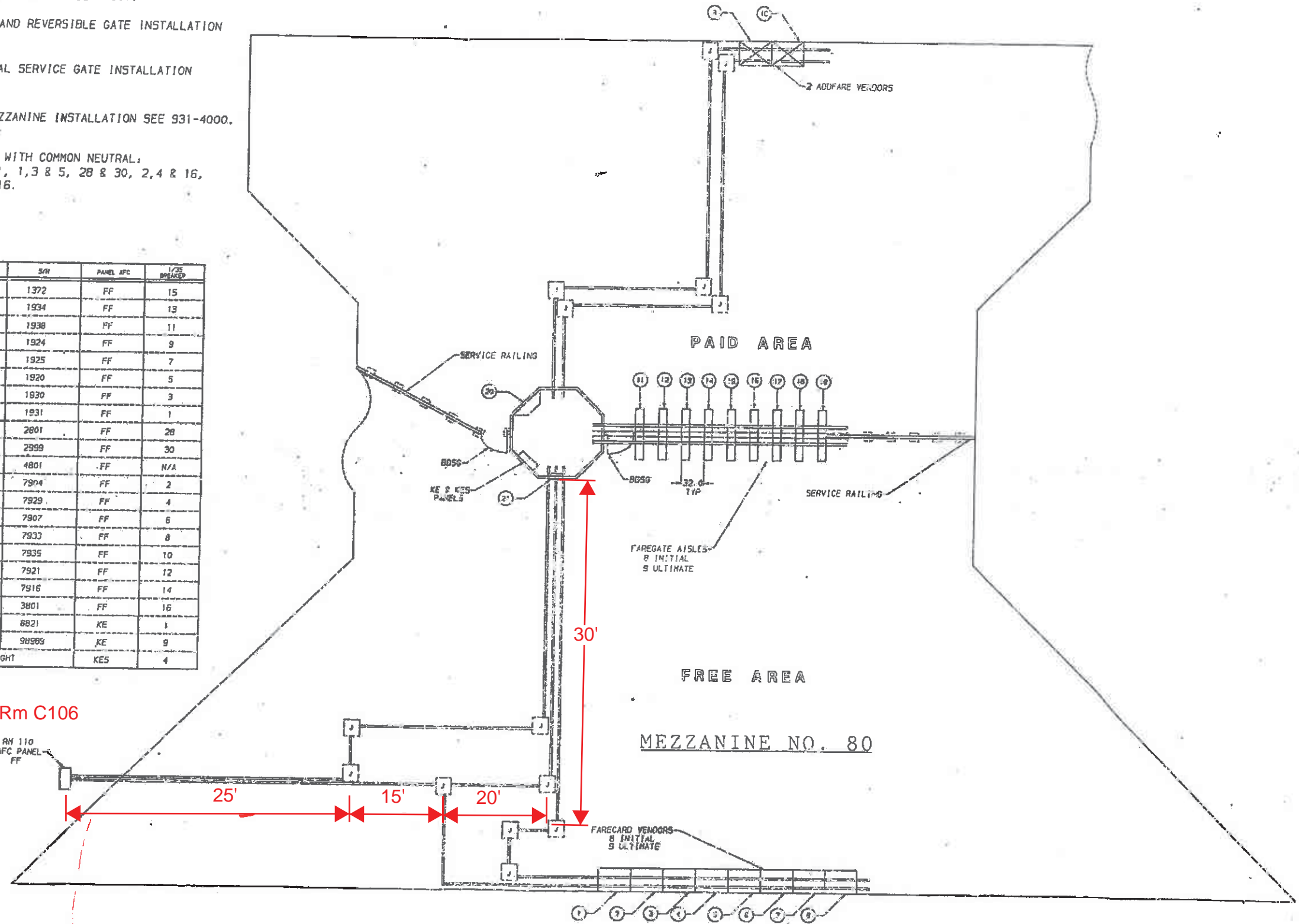
1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SMADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON NEUTRAL:
13 & 15, 7, 9 & 11, 1, 3 & 5, 28 & 30, 2, 4 & 16,
8, 10 & 12, 14 & 18.

Pre-inspection Field Verification
9/11/2014

ITEM	NAME	S/N	PANEL AFC	I/O RELAYED
1	VENDOR	1372	FF	15
2	VENDOR	1934	FF	13
3	VENDOR	1938	FF	11
4	VENDOR	1924	FF	9
5	VENDOR	1925	FF	7
6	VENDOR	1920	FF	5
7	VENDOR	1930	FF	3
8	VENDOR	1931	FF	1
9	ADDFARE	2801	FF	28
10	ADDFARE	2999	FF	30
11	EXIT GATE	4801	FF	N/A
12	REV. GATE	7904	FF	2
13	REV. GATE	7929	FF	4
14	REV. GATE	7907	FF	6
15	REV. GATE	7933	FF	8
16	REV. GATE	7935	FF	10
17	REV. GATE	7921	FF	12
18	REV. GATE	7916	FF	14
19	ENTRY GATE	3801	FF	16
20	SMADS	8821	KE	1
21	CLOCK	98989	KE	9
22	EMERGENCY LIGHT		KE5	4

Rm C106

RN 110
AFC PANEL
FF



SEE SEPARATE PL. WHEN TECH. NOTES ARE USED IN LIEU OF LEGAL NOTES	UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN FEET AND INCHES	ENGINEER: [Signature]	DATE: 09/11/2014	<p>GREENBELT STATION MEZZANINE LAYOUT</p>
DO NOT SCALE DRAWING	SCALE: 1/8" = 1'-0"	DATE: 09/11/2014	DATE: 09/11/2014	

Pre-inspection Field Verification
9/11/2014

EXISTING PANEL "FF"												
AMPERES: 250		VOLTS: 120/208		MOUNTING: SURFACE								
MAINS: 250AMCB		PHASE: 3		LOCATION: ELECTRICAL EQUIPMENT ROOM C106								
RATING: 10KAC		WIRE: 4		SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	CKT BKRS		CKT. NO.	PHASE	NO.	CKT BKRS		KVA	LOAD DESCRIPTION		
		AMP	POLE				NO.	AMP				
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	
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	17	-	-	C	18	1	20	0.8	EXISTING VENDOR
SPARE (KIOSK)	0.0	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	0.0	SPARE
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	0.8	EXISTING VENDOR
EXISTING VENDOR	1.0	20	2	31	A	-	32	1	20	0.8	EXISTING VENDOR	
	1.0	-	-	33	B	-	34	1	20	0.0	SPARE	
SPACE	0.0	20	1	35	-	-	C	36	1	20	0.0	SPARE
SPACE	0.0	20	1	37	A	-	38	3	30	3.3	EXIST KIOSK LOAD CENTER "KES"	
SPACE	0.0	20	1	39	B	-	40	-	-	2.5		
SPACE	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	18.0 x 50%	9.0 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	33.5 KVA	TOTAL DEMAND KVA 28.3 KVA
		TOTAL DEMAND AMPS 72.9 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	12.3 KVA	
PHASE B:	11.5 KVA	
PHASE C:	7.2 KVA	

NOTES: A. EXISTING PANEL "FF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SIBD "SIBD No. 2" THRU 200A DISC. SW. LOCATED IN ELEC. EQUIPMENT RM. C106, VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-E-E30).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 4-1/2" C. (WIRING FILL >40%).
* 1-3/4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 1-12"x 4" C. WIRE TROUGH (WIRING FILL >20%).
EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED	C. MOO	08-14	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. MOO	08-14				
CHECKED	B. BLM	08-14				
APPROVED	M/A	DATE				

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

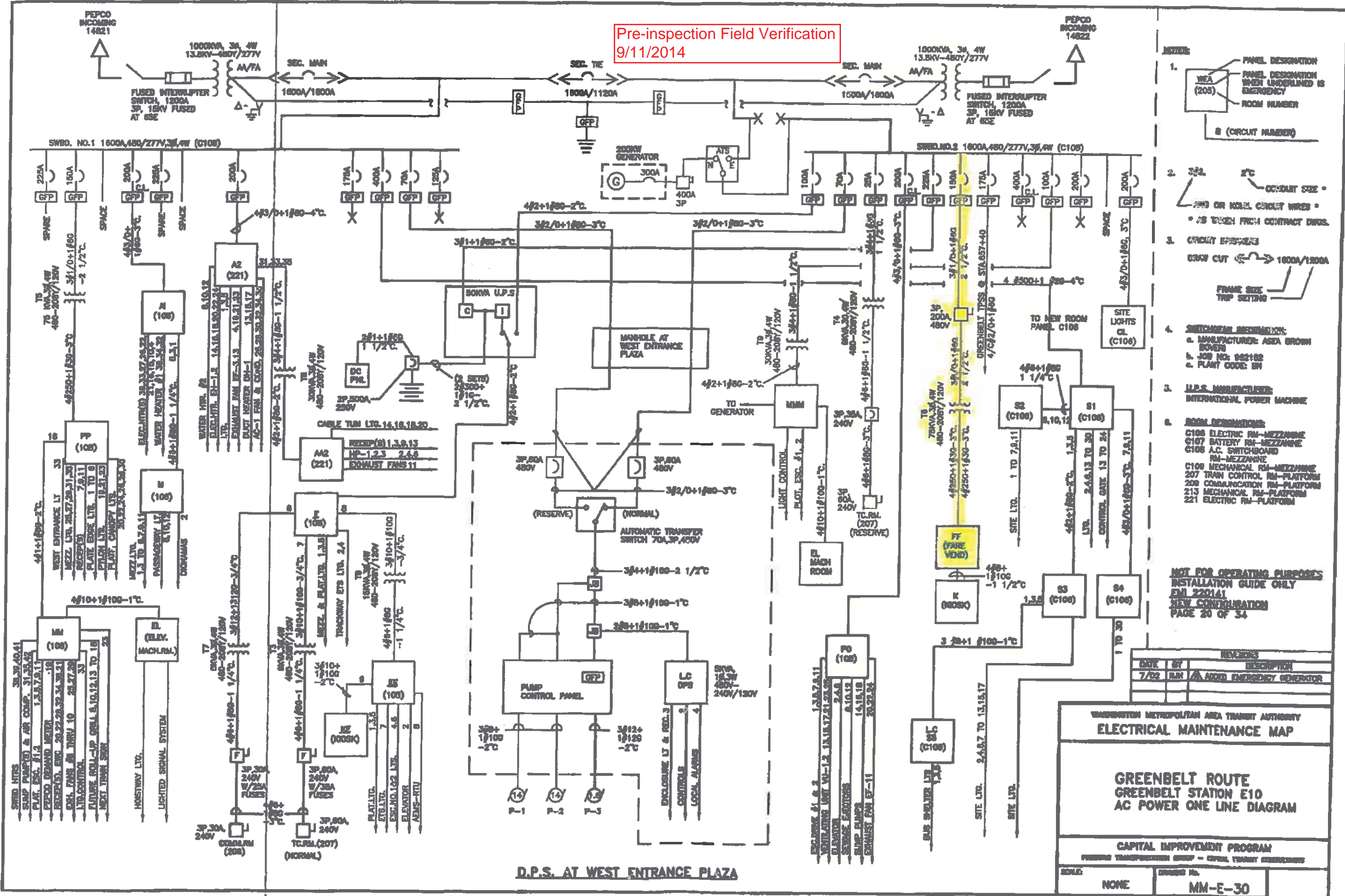
GFP A Hensel Phelps/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
GREENBELT
PANEL SCHEDULE

SCALE: NOT TO SCALE DRAWING NO. E10-E-102

Pre-inspection Field Verification
9/11/2014



NOTE:
1. PANEL DESIGNATION
WEA (205)
PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
ROOM NUMBER
B (CIRCUIT NUMBER)

2. 2/2 2/C
CIRCUIT SIZE -
2/2 OR 2/2.5 CIRCUIT WIRES -
AS USED FROM CONTRACT DINGS.
3. CIRCUIT EFFICIENCY
CIRCUIT CUT 1000A/1200A
FRAME SIZE
TRIP SETTING

4. SWITCHGEAR MANUFACTURER:
a. MANUFACTURER: ASIA BROWN
BOYER
b. JOB NO: 922102
c. PLANT CODE: 01
5. U.P.S. MANUFACTURER:
INTERNATIONAL POWER MACHINE

6. ROOM DESIGNATION:
C106 ELECTRIC RM-MEZZANINE
C107 BATTERY RM-MEZZANINE
C108 A.C. SWITCHBOARD
RM-MEZZANINE
C109 MECHANICAL RM-MEZZANINE
207 TRAIN CONTROL RM-PLATFORM
208 COMMUNICATION RM-PLATFORM
213 MECHANICAL RM-PLATFORM
221 ELECTRIC RM-PLATFORM

NOT FOR OPERATING PURPOSES
INSTALLATION GUIDE ONLY
EM 220141
NEW CONFIGURATION
PAGE 20 OF 34

REVISIONS		
DATE	BY	DESCRIPTION
7/02	RM	ADDED EMERGENCY OPERATOR

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**GREENBELT ROUTE
GREENBELT STATION E10
AC POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
FIXING TRANSPORTATION GROUP - CAPITAL TRANSIT DEPARTMENT

SCALE: NONE
DWG. NO. MM-E-30

D.P.S. AT WEST ENTRANCE PLAZA

Pre-Inspection Mezzanine Walkthrough Checklist


Date: 08/28/2014	Station Name: F02 Archives	Mezzanine # 081	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: MM Source Breaker Name/Number: Disconnect Switch - "Disc. MF" Electrical AFC Panel Name/Number: MF	203 203 203	AFC Panel (MF) is fed from/tapped from existing Panel (MM). AC SWBD Room is 113 and located Platform level on Track 1 Wayside (SWBD. NB and Panel NE is located here);
<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: "Disc. MF" SMNT/POWR escorts: HIGH AND LOW VOLTAGE	203	Disconnect Switch ("Disc. MF") will be used to de-energize AFC Panel (MF).
<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)	203	With a shared raceway (trough), multiple other panels have to be de-energized. Panel MPO (Breaker: "Panel MPO" Circuit #1, SWBD NB); Panel M (Breaker: "Panel M" Circuit #5, SWBD NB); Panel ME (Breaker: Circuit #18 3PH, Panel NE (Room #113);
<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 checked="" type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support: AFC		Panel MM (Breaker: "Lighting and Fare Vending Equipment" Circuit #9, SWBD NB); Will need access to Elevator Machine Room #205, therefore ELES escort is needed.
<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 found, however AFC as-built plan shows one handhole that is no longer there. An AFC Escort needed to open Fare Vending Machine - VN1279 to verify if handhole is underneath this machine. PLNT escorts also needed just in case.

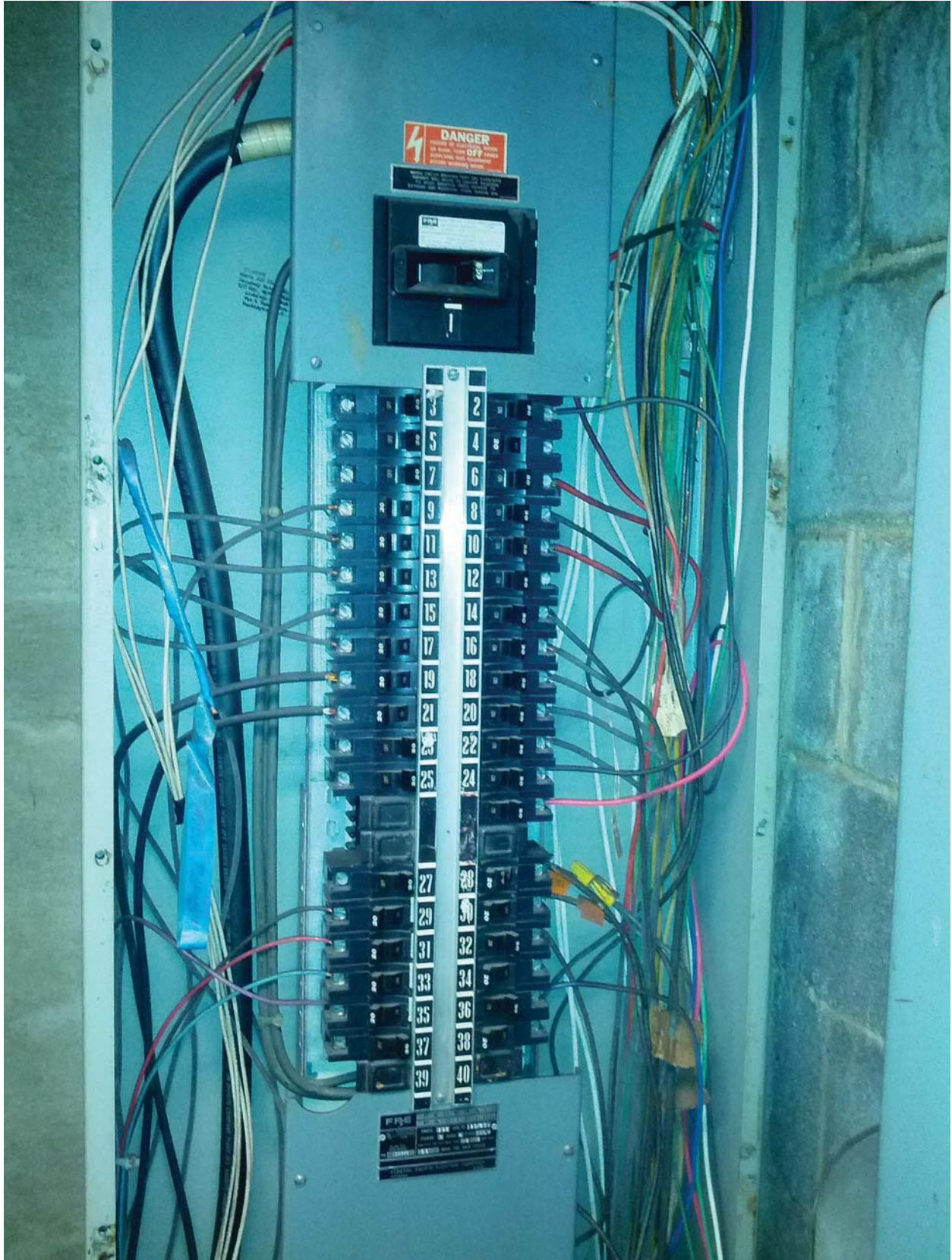
Emergency Power Verification

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:	08/28/2014	

Archives Photo #1 – AFC Panel (MF) - Room 203 (Mezzanine Level)



Archives Photo #2 – Disconnect Switch “Disc. MF” for AFC Panel (MF) - Room 203 (Mezzanine Level)



Archives Photo #3 – AFC Panel (MF) Panel Schedule - Room 203 (Mezzanine Level)

FPE

PANELBOARD: Archives - Panel MF 120/208V

FEED FROM

CIR.	LOAD DESCRIPTION
1	30A 30
2	30A 30 ATM
3	Gate #10 GATES REMOVED
4	Spare 2-12-92
5	Gate #11
6	Spare
7	Gate #12
8	Gate #13 - center mezzanine
9	Gate #14
10	---
11	Gate #15
12	Gate #16 - Center mezzanine
13	Gate #17 12-Space
14	Paid Area Vendor #30
15	Gate #18
16	Paid Area Vendor #31
17	Gate #19
18	Paid Area Vendor #32
19	Add Fare #50
20	Paid Area Vendor #33
21	Add Fare #51
22	Paid Area Vendor #34
23	Spare Transfer Mach #1
24	Paid Area Vendor #35 TDM-70
25	Spare Transfer Mach #2
26	Paid Area Vendor #36 TDM-71
27	Space
28	Transfer Mach #1
29	Space GATE #13
30	Transfer Machine #2
31	Spare GATE #12
32	Space MAP CASE
33	Space GATE #11
34	Map Case
35	Space GATE #10
36	Space PIDS MEZZ SIGW
37	Spare
38	Spare
39	Spare
40	Spare
41	
42	

3401B1286

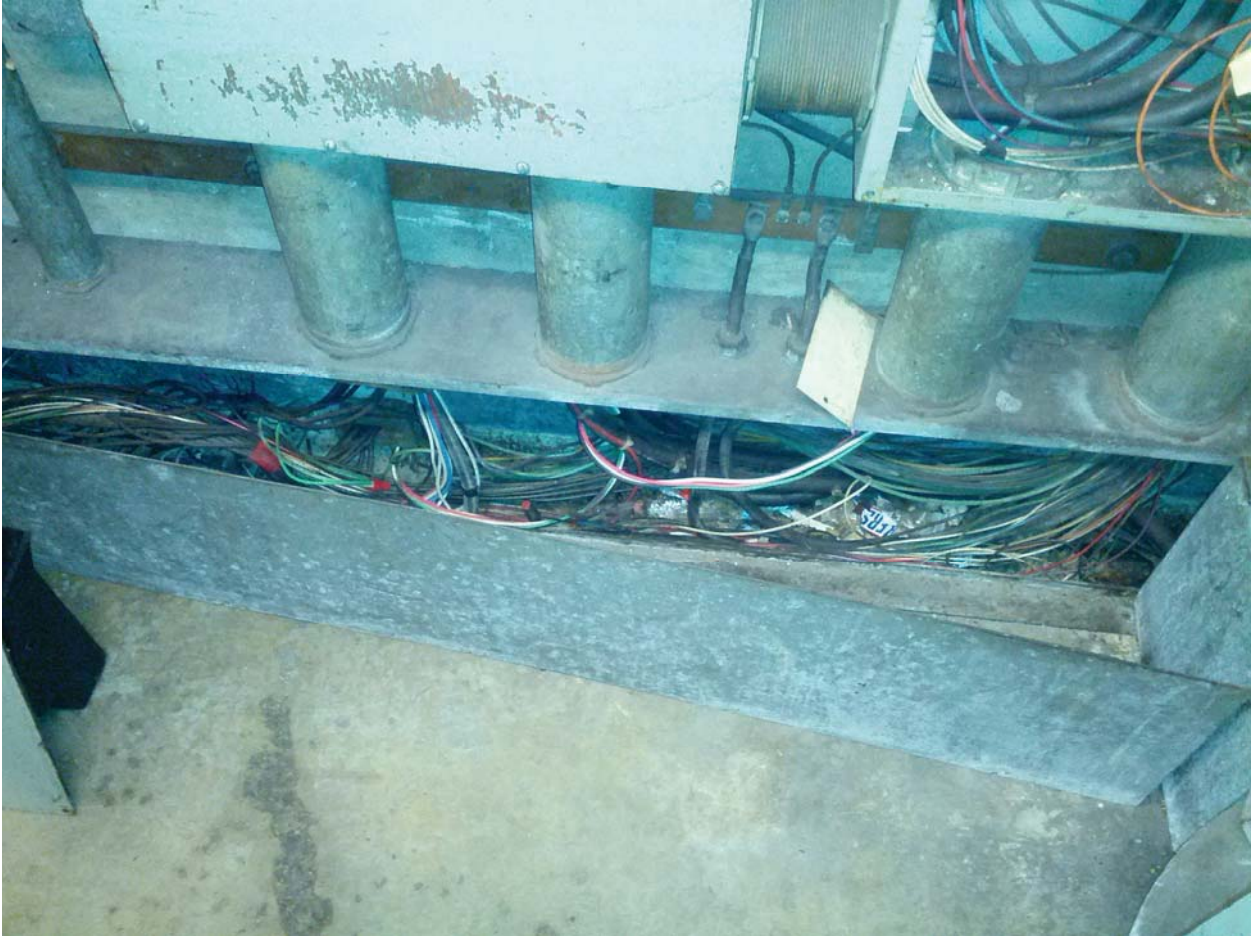
Archives Photo #4 – AFC Panel (MF) shared raceway (trough) with Panels MPO, M, ME, and MM (All in Room 203 Mezzanine Level)



Archives Photo #5 – AFC Panel (MF) shared raceway (trough) with Panels MPO, M, ME, and MM (All in Room 203 Mezzanine Level)



Archives Photo #6 – AFC Panel (MF) shared raceway (trough) with Panels MPO, M, ME, and MM (All in Room 203 Mezzanine Level)



Archives Photo #7 – Location of Handhole noted on AFC As-Built Plan, but it could not be found.

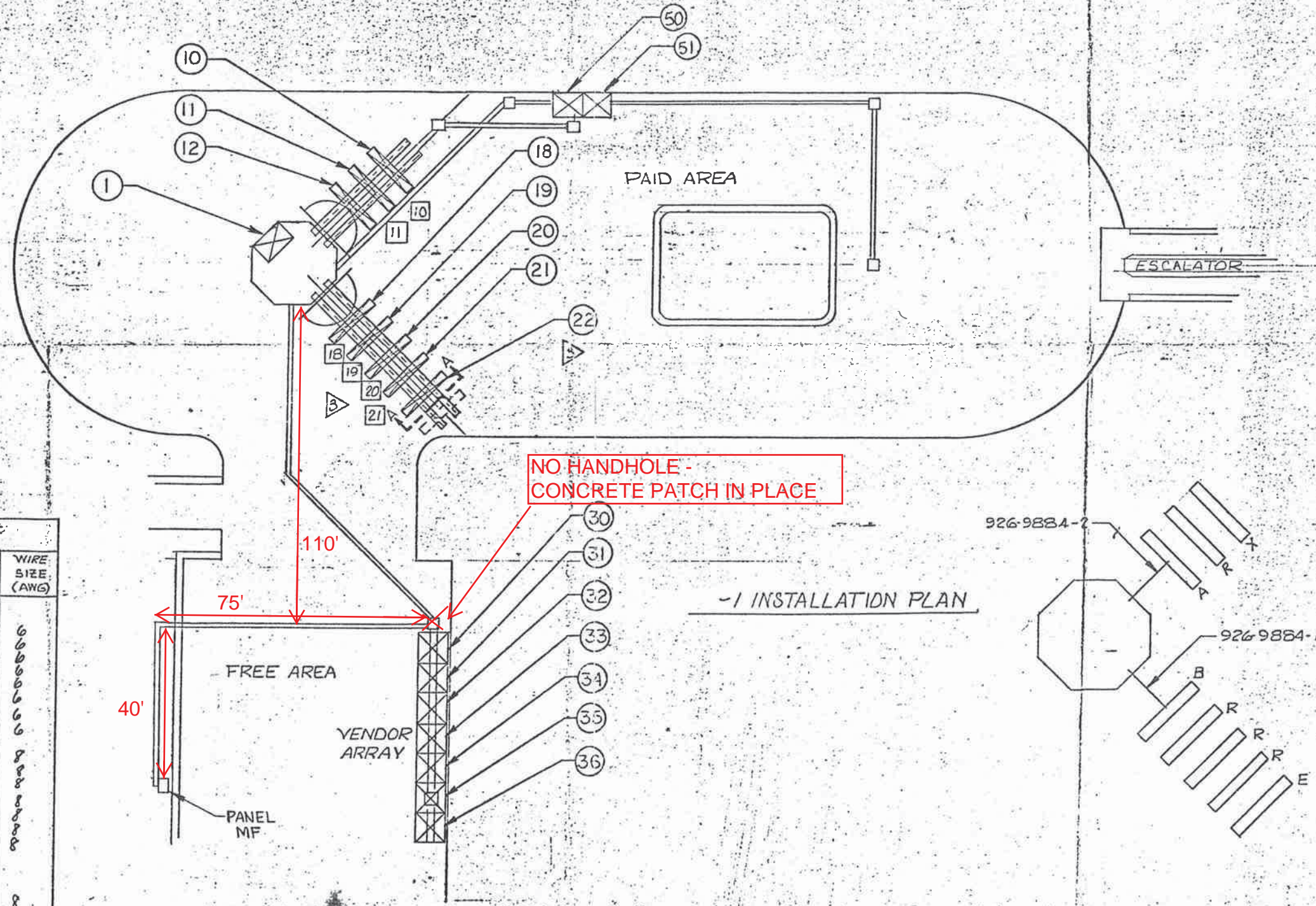
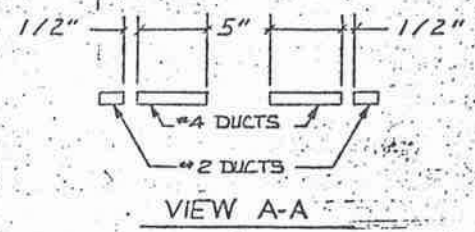


NOTES

1. THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE "X" DRAWN THROUGH THE MACHINE.

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

3. (X) INDICATES POSITION NO. (X) INDICATES AISLE NO.



POSITION NO.	MACHINE TYPE	SERIAL NO.	CIRCUIT BREAKER NO.	BREAKER SIZE (AMPS)	WIRE SIZE (AWG)	
1	DADS	DS 8073	K105K	20		
10	EXIT GATE	8X 4067	13	20	99999999 9999999999	
11	REV GATE	GR-7262	7	20		
12	A GATE	84-5052	7	20		
18	B GATE	88-6049	9	20		
19	REV GATE	82-7257	11	20		
20	REV GATE	82-7257	13	20		
21	REV GATE	82-7256	15	20		
22	ENTRY GATE	8N-3054	17	20		
30	VENDOR	FV-1336	14	20		
31	VENDOR	FV-1319	18	20		
32	VENDOR	FV-1329	20	20		
33	VENDOR	FV-1334	22	20		
34	VENDOR	FV-1301	24	20		
35	VENDOR	FV-1340	24	20		
36	VENDOR	FV-1323	26	20		
50	ADDFARE	Am-2122	19	20		0000
51	ADDFARE	Am-2123	21	20		

DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED BREAK SHARP EDGES .010 MAX TOLERANCES ON ANGLES ± 0.5 DEG.

DIMENSIONS ARE IN INCHES

HOLE SIZES: .015 THRU .250: +.004 - .001
 .501 THRU .750: +.005 - .001
 .751 THRU 1.000: +.010 - .001

CONTRACT NUMBER

DRAWING NUMBER
926-0453

SHEET 1 OF 1

CUBIC WESTERN DATA
 5650 KENNEDY AVENUE, SUITE 200, SAN DIEGO, CA 92138
 A Subsidiary of Creative Computer Services

INSTALLATION PLAN
 ARCHIVES STATION

CODE IDENT NO.
94987

D 926-0453

DRAWN: L.D.N. 6/27/82
 CHECKED: A.S.L. 7/2/82
 DESIGNED: C. 7/2/82
 DESIGN ACTIVITY APPROVAL
 APPROVAL

EXISTING PANEL "MF"

AMPERES: 225	VOLTS: 120/208	MOUNTING: SURFACE
MAINS: 225A MCB	PHASE: 3	LOCATION: ELECTRICAL EQUIPMENT RM. 203
RATING: 10K AIC	WIRE: 4	SECTION: 1 OF 1

Labeled as 3,5

LOAD DESCRIPTION	KVA	CKT BKRS			CKT NO.	CKT. NO.	CKT BKRS			LOAD DESCRIPTION
		AMP	POLE	NO.			AMP	KVA		
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	1	A 3	2	1	20	0.8	EXISTING VENDOR
1&2 SPARE (KIOSK)	0.0	20	1	3	B 5	4	1	20	0.0	SPARE
SPARE	0.0	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	0.0	SPARE
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
SPARE	0.0	20	1	21	- B -	22	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	23	- - C	24	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	25	A - -	26	1	20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	27	- B -	28	-	-	0.0	SPACE
SPARE	0.0	20	1	29	- - C	30	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	31	A - -	32	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	33	- B -	34	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	35	- - C	36	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	37	A - -	38	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	39	- B -	40	1	20	0.0	SPARE
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

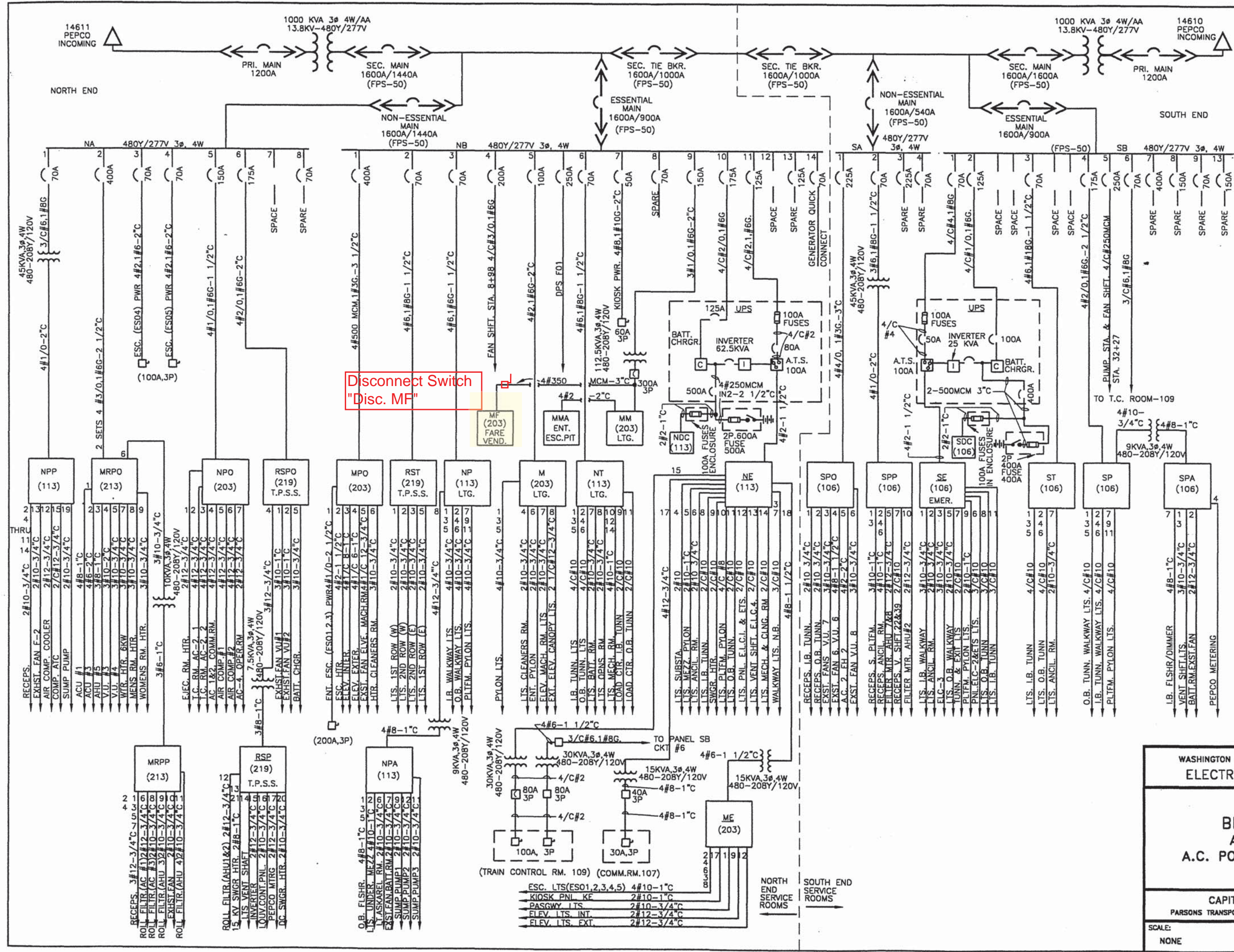
LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	11.6 x 50%	5.8 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	0.0 x 125%	0.0 KVA
AC	0.0 x 100%	0.0 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	21.6 KVA	TOTAL DEMAND KVA 15.8 KVA
		TOTAL DEMAND AMPS 43.9 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	10.4 KVA	
PHASE B:	5.6 KVA	
PHASE C:	5.6 KVA	

NOTES: A. EXISTING PANEL "MF" IS TAP-OFF FROM 120/208V, 3Ø, 4W EXISTING PANEL "MM" LOCATED IN ELECTRICAL EQUIPMENT RM. 203, VIA 112KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E06).

B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 2-4" C. (1-WIRING FILL >40% & 1-WIRING FILL >20%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 2- 1 1/2" C. (1-WIRING FILL >40% & 1-EMPTY CONDUIT).
 EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1- 4" C. TO TAP-OFF PANEL "MM" (WIRING FILL >40%).

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED C. HGO 08-14 DRAWN C. HGO 08-14 CHECKED B. DLS 08-14 APPROVED N/A	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2">REFERENCE DRAWINGS</th> <th colspan="2">REVISIONS</th> </tr> <tr> <th>NUMBER</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	REFERENCE DRAWINGS		REVISIONS		NUMBER	DESCRIPTION	DATE	BY																	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM APPROVED _____	 A Gambell Fleming/Parsons JOINT VENTURE SUBMITTED _____ PROJECT MANAGER	NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS ARCHIVES PANEL SCHEDULE SCALE NOT TO SCALE DRAWING NO F02-E-102
REFERENCE DRAWINGS		REVISIONS																										
NUMBER	DESCRIPTION	DATE	BY																									



- NOTES:**
1. PANEL DESIGNATION

WEA (205) (LIGHTING)

8 (CIRCUIT NUMBER)

* WHEN NO CKTS SHOWN
 2. 3#2, 2" CONDUIT SIZE *

AWG OR KCMIL CIRCUIT WIRES *

* AS TAKEN FROM AS BUILT DWGS.
 3. CIRCUIT BREAKERS

DRAW OUT 1600A/1200A MOLDED CASE

FRAME SIZE CONTINUOUS CURRENT SETTING
 4. 4/C # 4/0

INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTORS 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: FEDERAL PACIFIC
 7. UPS MANUFACTURER: I.P.M.

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**BRANCH AVENUE
ARCHIVES STATION
A.C. POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE DRAWING No. MM-F-E06