

Pre-Inspection Mezzanine Walkthrough Checklist


Date: 08/28/2014	Station Name: L'Enfant Plaza North	Mezzanine # 082	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: NB (AFC Source Panel) NE (Relay Source Panel) Source Breaker Name/Number: "Panel NF" (Circuit #7) Circuit #6 of Panel NE Electrical AFC Panel Name/Number: NF	N104 N104 N104	Room N104 is AC SWBD. RM. Located Wayside on Track 2 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.		North ELES Remote Monitoring Status Relay Panel shares a raceway with AFC Panel NF and thus needs to also be de-energized. North ELES Remote Monitoring Status Relay Panel is serviced by Panel NEZ whose source panel is NE- Circuit #6, 3PH Breaker.
<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:		PLNT escorts needed to lift hand holes. ELES escorts needed because ELES Remote Monitoring Status Relay Panel needed to be de-energized.
<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		Conduit/Duct on two levels - Platform Level Conduits in Room N104 to Mezzanine Level Handholes;

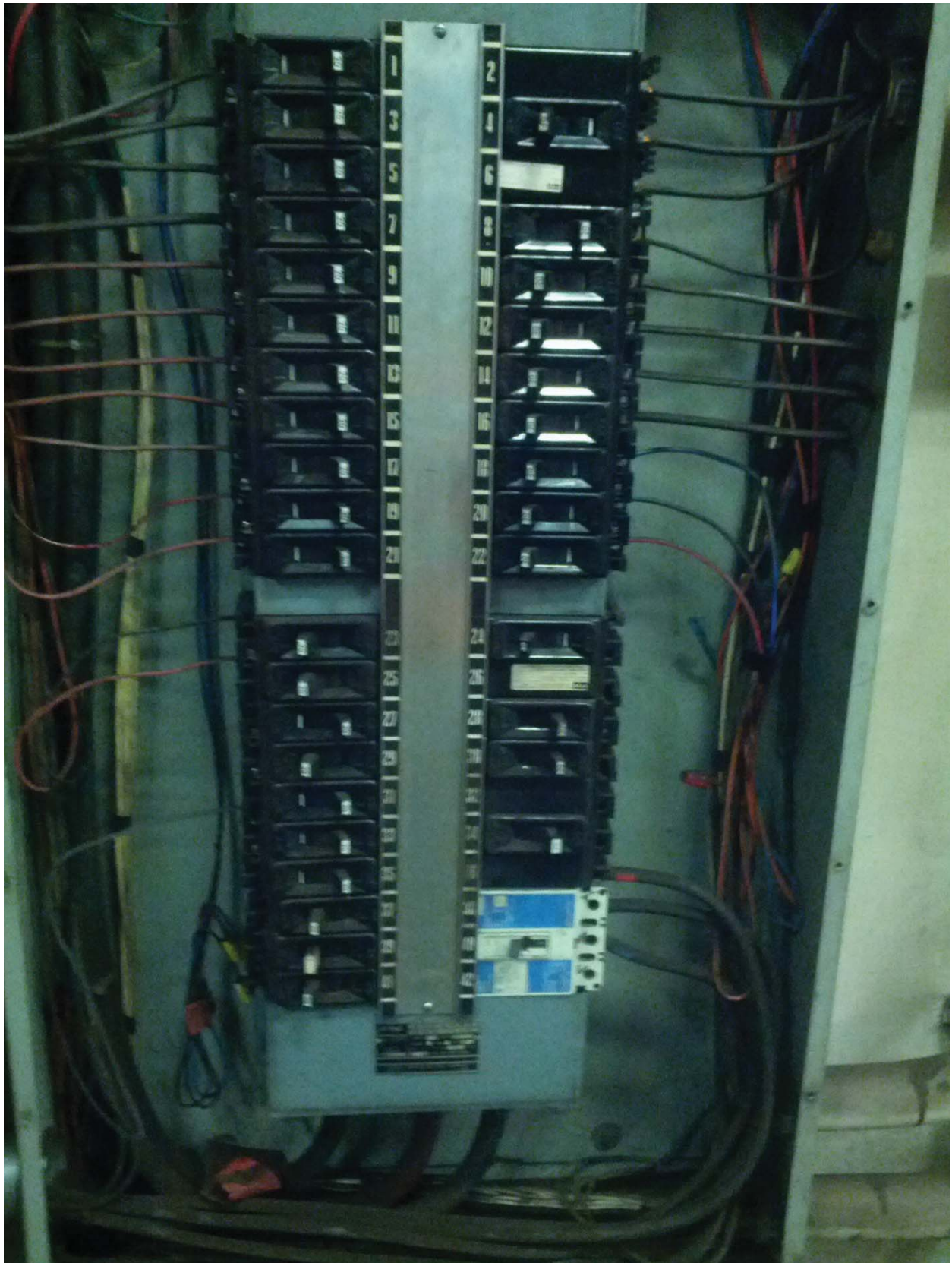
Emergency Power Verification

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"/>	

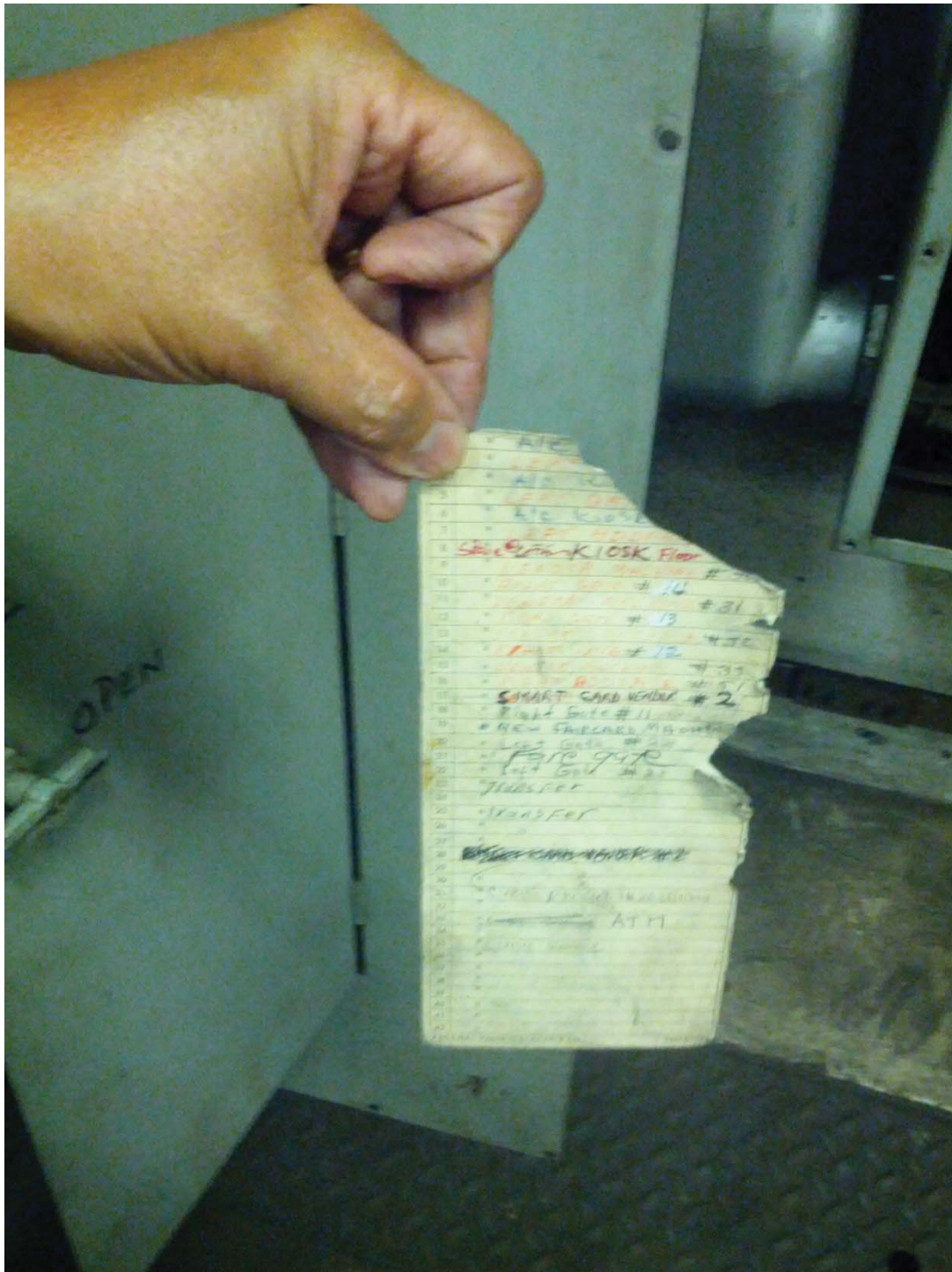
Notes and Discrepancies:

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

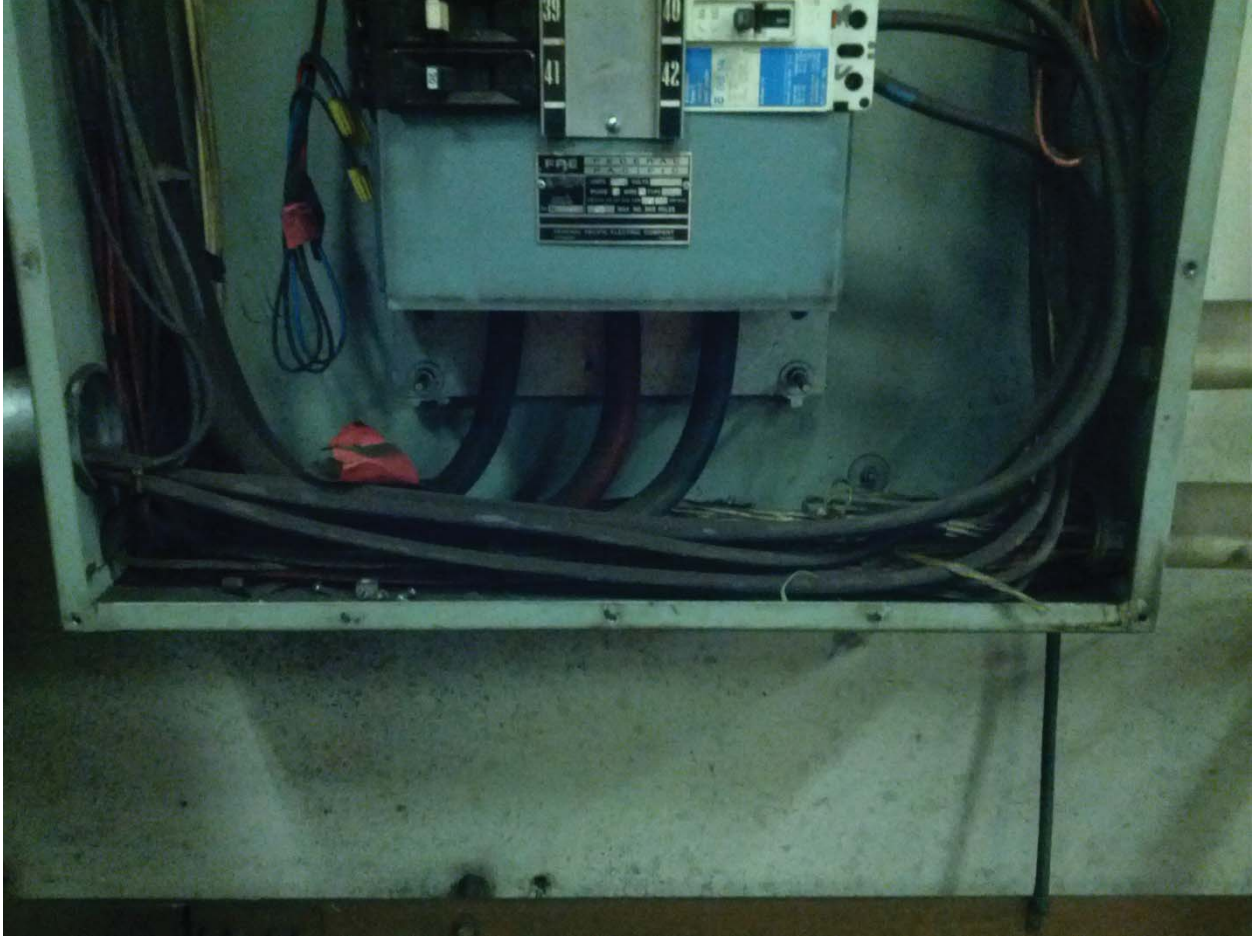
L'Enfant Plaza North Photo #1 – AFC Panel (NF) - Room N104 (Platform Level Track 2 Wayside)



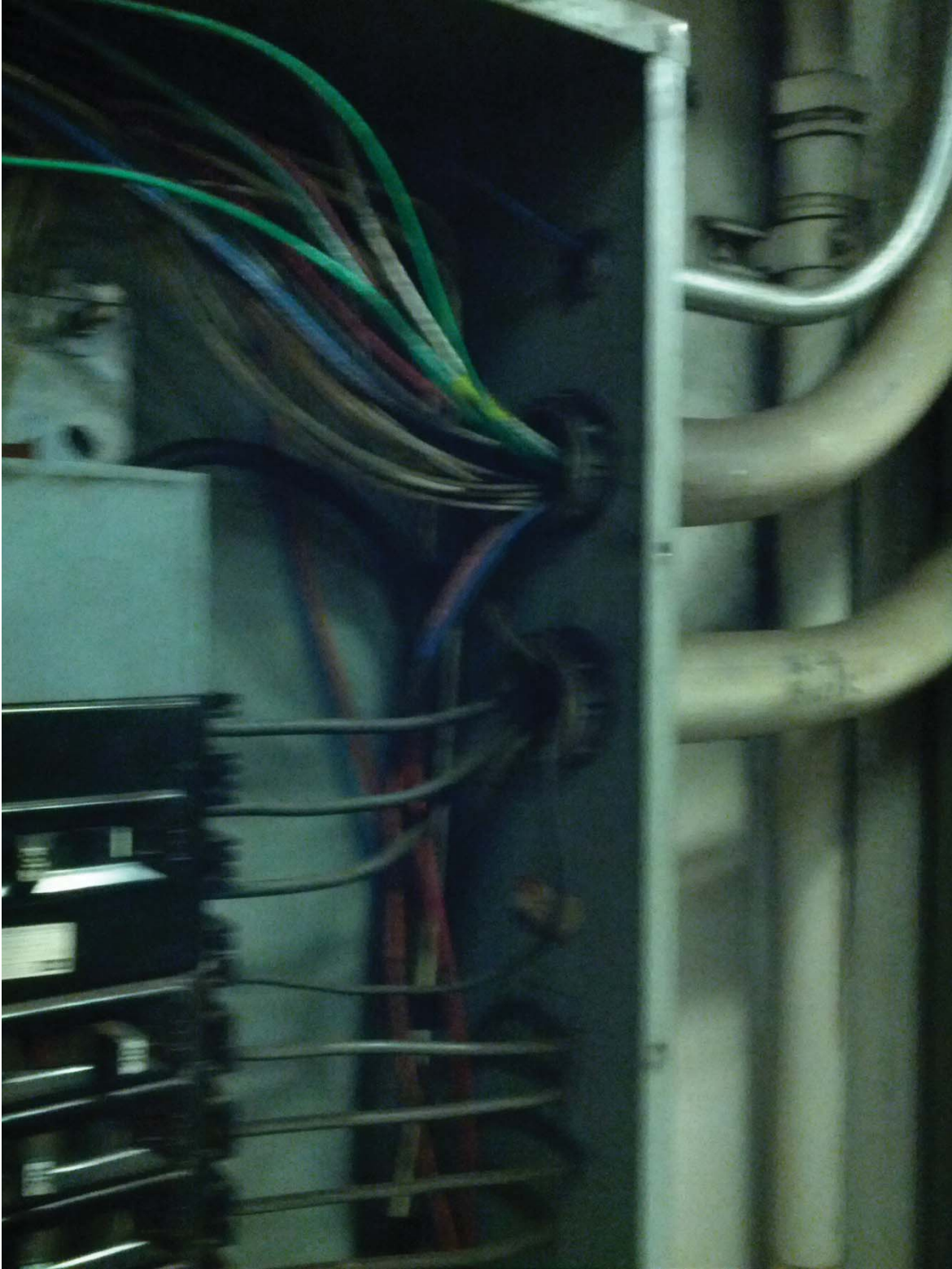
L'Enfant Plaza North Photo #2 – AFC Panel (NF) Panel Schedule



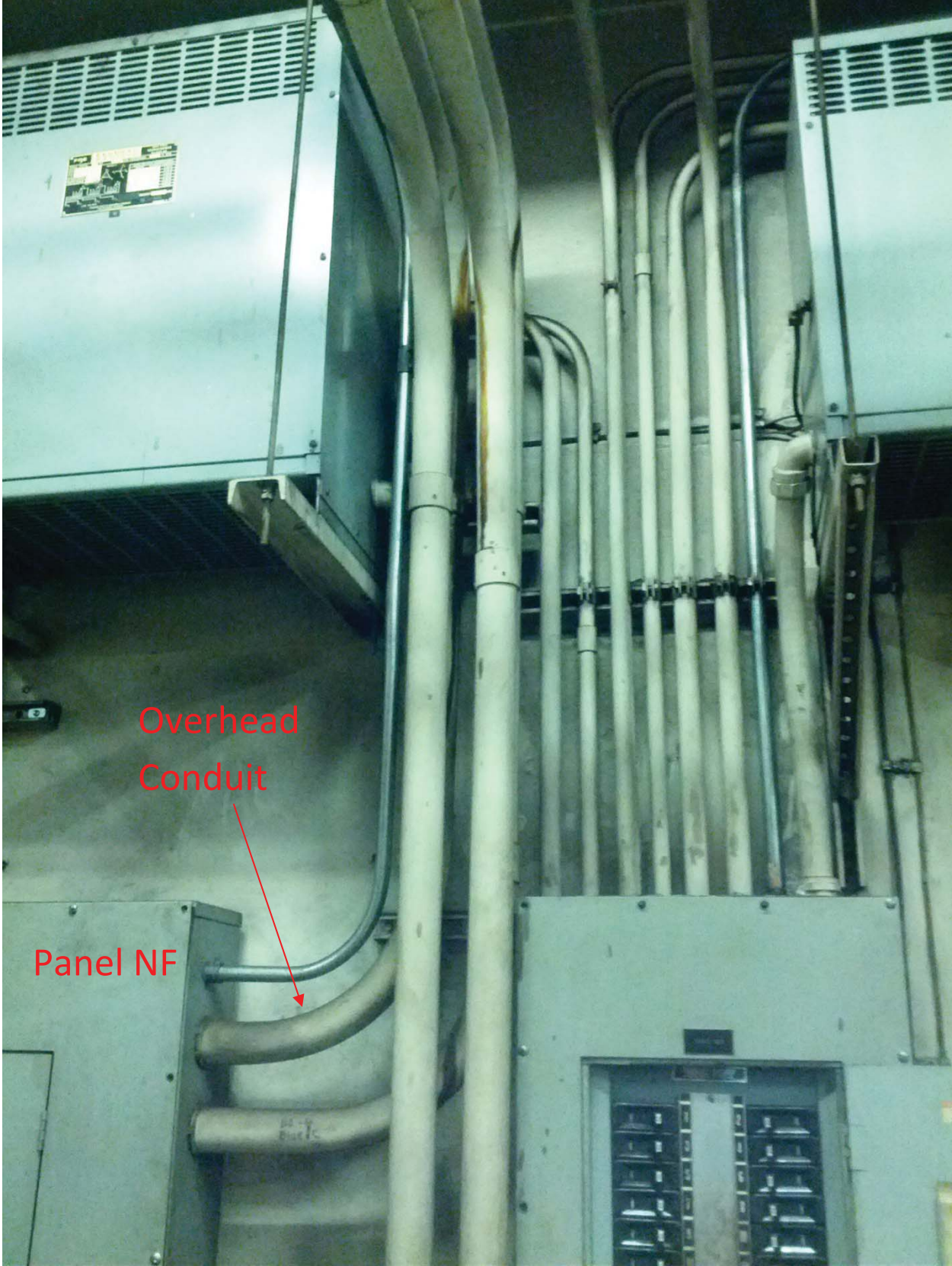
L'Enfant Plaza North Photo #3 – AFC Panel (NF) – Bottom Transformer Feed



L'Enfant Plaza North Photo #4 – Side Feed transitioning to Overhead Conduits which transition to Mezzanine Level



L'Enfant North Photo #5 – AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)



L'Enfant Plaza North Photo #6 –AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)



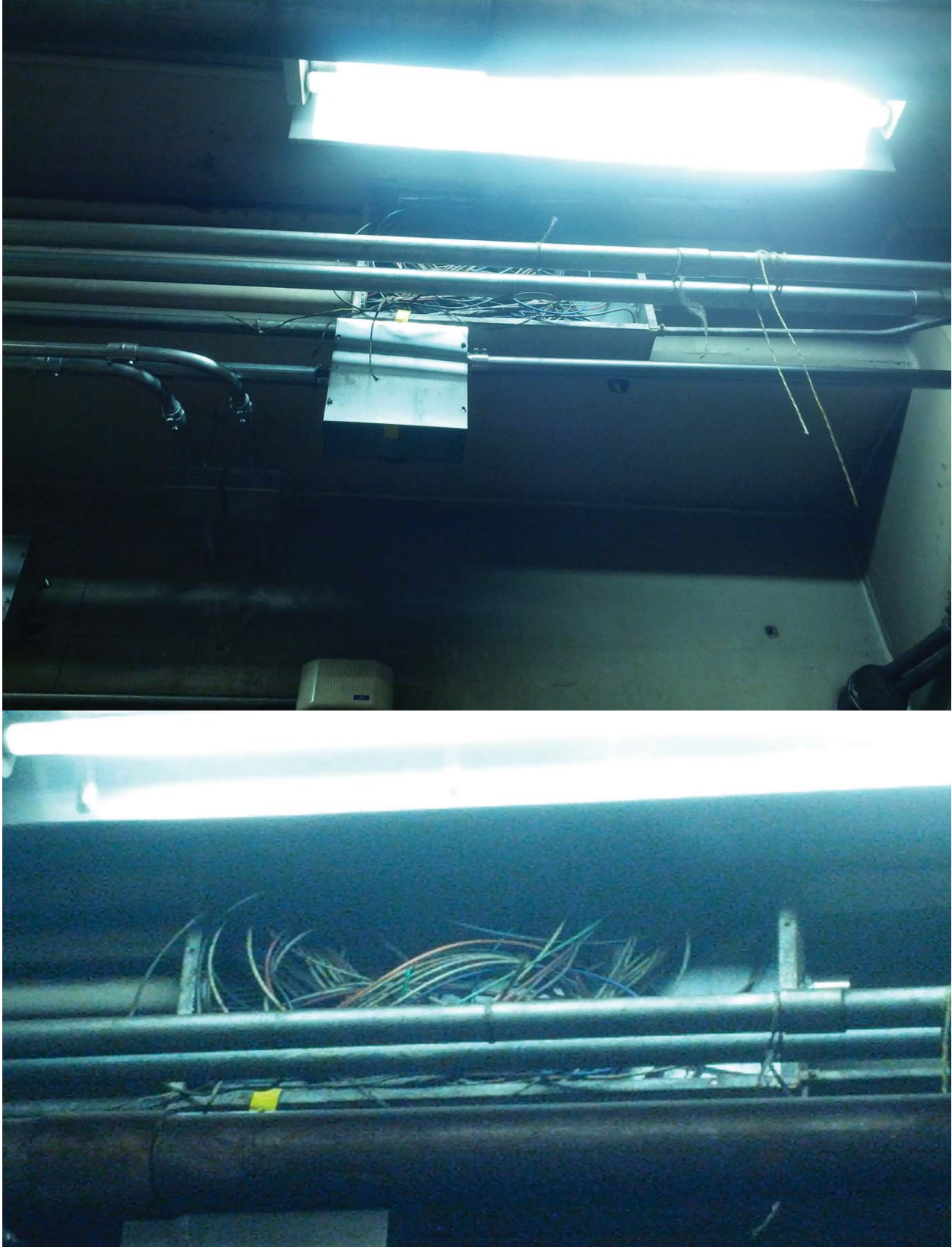
L'Enfant Plaza North Photo #7 –AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)



L'Enfant Plaza North Photo #8 –AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)



L'Enfant Plaza North Photo #9 –AFC Panel (NF) – Overhead Conduit Transition (Platform Level Rm. N104)



L'Enfant Plaza North Photo #10 – AFC Source Switchboard (NB) located in Room #N104 on Platform Level Track 2 Wayside. Source Breaker (Panel “NF”) Circuit #7 for AFC Panel (NF).



L'Enfant Plaza North Photo #11 – North ELES Remote Monitoring Status Relays – Panel Shares Junction Box (shared raceway) with AFC Panel (NF).



L'Enfant Plaza North Photo #12 – Panel NEZ Serves North ELES Remote Monitoring Status Relays Panel



L'Enfant Plaza North Photo #13 – Panel NEZ Panel Schedule

FPE

120 AMP

PANEL BOARD, NEZ 3 ph. 4W 208/120V

FEED FROM:

CIR.	LOAD DESCRIPTION
1	Em. Ltg. Escalator - N1
2	" " " N2
3	" " " N3 + ETS LIGHT
4	" " " N4
5	" " " N5
6	" " " N6
7	HEMS RTU
8	Elevators #1, 2 & 3 Ltg. & Exh. Fan
9	Vent Shaft Emer. Ltg. PASSAGE
10	Elevators #1, 2 & 3 Ltg. & Exh. Fan
11	N. Ent. Escalator EM. Ltg.
12	Elevators #1, 2 & 3 Ltg. & Exh. Fan
13	Canopy Area Ltg.
14	Passageway EM. Ltg.
15	Entrance Escalator Controls ⁴⁴⁴⁷⁷ Esc. Brake
16	APC "LTS"
17	ENT. ESC. "EMERES" LIGHTS
18	MEZZ. ESC. BRKES (4647)
19	ENT. ESC. "BRKES"
20	MEZZ. ESC. BRKES (4647)
21	Htr. in H.V. Cubicle
22	KIOSK EMER. LTS
23	PNEUMATIC CONTROL
24	KIOSK EMER. LTS
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	

CORNER PACIFIC ELECTRIC CO. 840781288

L'Enfant Plaza North Photo #14 – Panel NE - Circuit #6 is breaker for Panel NEZ



L'Enfant Plaza North Photo #15 – Panel NE Panel Schedule

PANEL BOARD: NE 3 ph. 4W 480/277V

CIR.	LOAD DESCRIPTION
1	Tunnel EM. Ltg.
2	Mezz. Anc. Em. Ltg.
3	Tunnel EM. Ltg. - W → NOW CIR #5 BKR
4	Plat. Anc. EM. Ltg.
5	Plat. EM. Ltg. MOVED TO PANEL #10
6	Panel NEZ
7	Plat. W Cellular Phone Cable - Trak 2
8	Plat E
9	Plat. W
10	Plat. E
11	Plat. W Cellular Phone Cable - Trak 1
12	Plat E
13	NMM
14	
15	NMM
16	
17	NMM
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	

L'Enfant Plaza North Photo #16 – Handholes located on Mezzanine level about 60' feet from Kiosk



L'Enfant Plaza North Photo #17 – Handholes located on Mezzanine level about 35' feet from Kiosk



EXISTING PANEL "NF"										
AMPERES: 400		VOLTS: 120/208		MOUNTING: SURFACE						
MANS: 400A MLO		PHASE: 3		LOCATION: AC SWBD ROOM N104						
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	CKT BKRS			CKT. NO.	POLE	CKT BKRS			LOAD DESCRIPTION
		AMP	POLE	NO.			POLE	AMP	KVA	
EXISTING VENDOR	0.8	20	1	1	A - -	2	3	30	1.5	EXISTING CONDENSING UNIT
EXISTING VENDOR	0.8	20	1	3	- B -	4	-	-	15	
EXISTING VENDOR	0.8	20	1	5	- - C	6	-	-	15	
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	EXISTING VENDOR
SPACE	0.0	-	-	23	- - C	24	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	25	A - -	26	2	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	27	- B -	28	-	-	0.0	
NEW KIOSK RECEPT. (T & NEPP)	0.8	20	1	28	- - C	30	1	20	0.0	SPARE
SPARE (KIOSK)	0.0	20	1	31	A - -	32	1	20	0.0	SPARE
SPARE	0.0	20	1	33	- B -	34	3	70	0.0	SPARE
EXISTING VENDOR	0.8	20	1	35	- - C	36	-	-	0.0	
SPARE	0.0	20	1	37	A - -	38	-	-	0.0	
SPARE	0.0	20	1	39	- B -	40	3	100	3.3	EXISTING LOAD CENTER 'KES'
SPARE	0.0	20	1	41	- - C	42	-	-	2.5	
SPARE	0.0	20	1	43	A - -	44	-	-	2.5	

1
1&2
1&2
Use Circuits #27 and #29

NOTES: 1. CONNECT NEW FEEDER TO EXISTING 20A, 1P SPARE 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	9.2 x 50%		4.6 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	9.0 x 100%		9.0 KVA
WATER HEATING	0.0 x 125%		0.0 KVA
TOTAL CONNECTED LOAD	31.2 KVA	TOTAL DEMAND KVA	27.4 KVA
		TOTAL DEMAND AMPS	76.0 AMPS

CONNECTED LOAD PHASE SUMMARY	
PHASE A:	10.4 KVA
PHASE B:	11.2 KVA
PHASE C:	9.6 KVA

NOTES: A. EXISTING PANEL "NF" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "NB" LOCATED IN AC SWBD. RM. N104, CIRCUIT #7-90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-ED8).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
• 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
EXISTING WIRING FED FROM TO LEFT SIDE OF PANEL BY:
• 1- 2" C. (WIRING FILL >20%).
EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
• 4- 1 1/2" C. (WIRING FILL >40%).
• 1- 3/4" C. (WIRING FILL >20%).

CONTRACT NO.
14-FQ10060-CENI-24

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

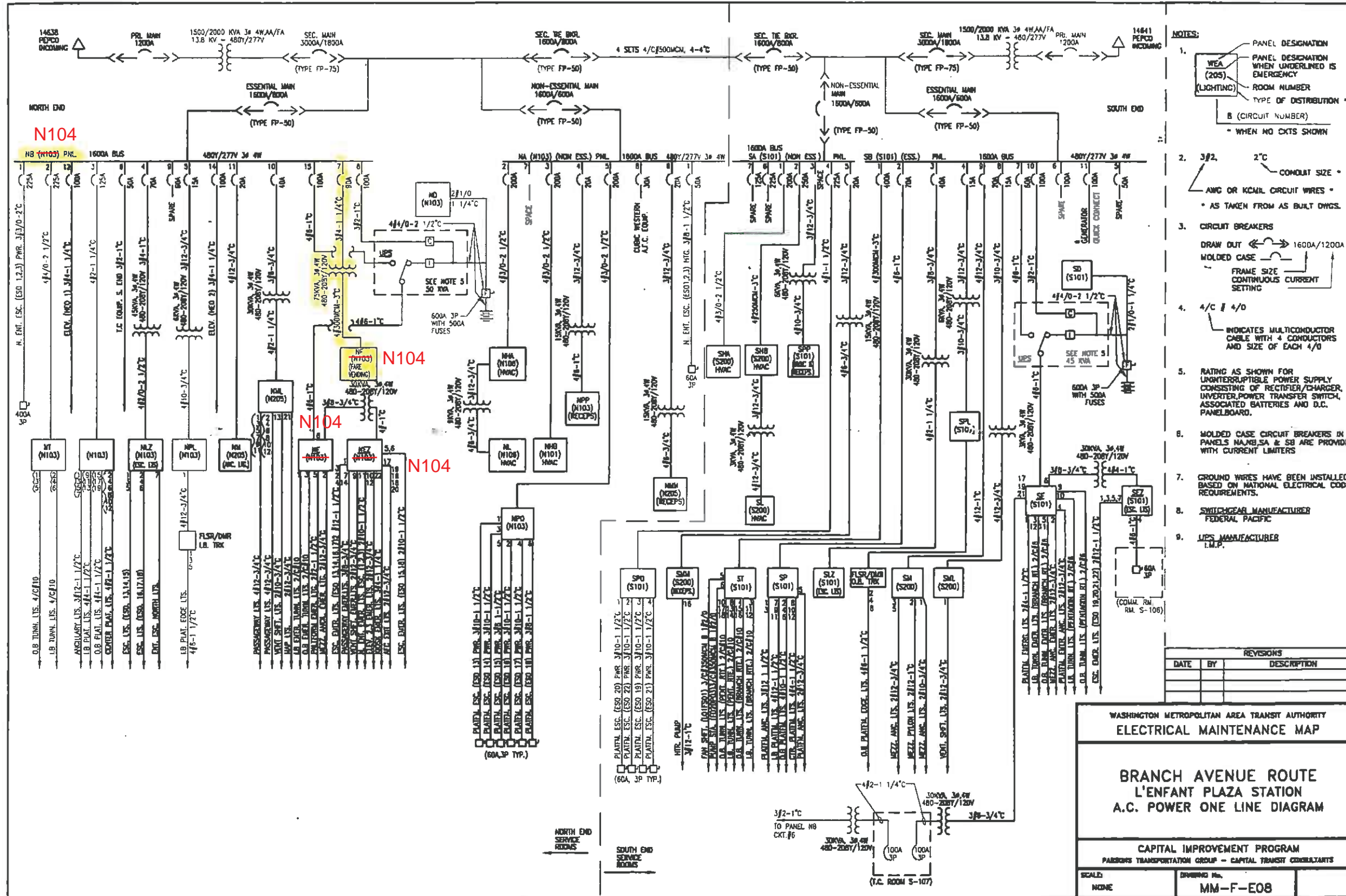
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

GFP A Gannett Fleming/Parsons JOINT VENTURE


APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP)
IN METRORAIL STATIONS
L'ENFANT PLAZA - NORTH
PANEL SCHEDULE

SCALE: NOT TO SCALE
DRAWING NO.: F03-E-102



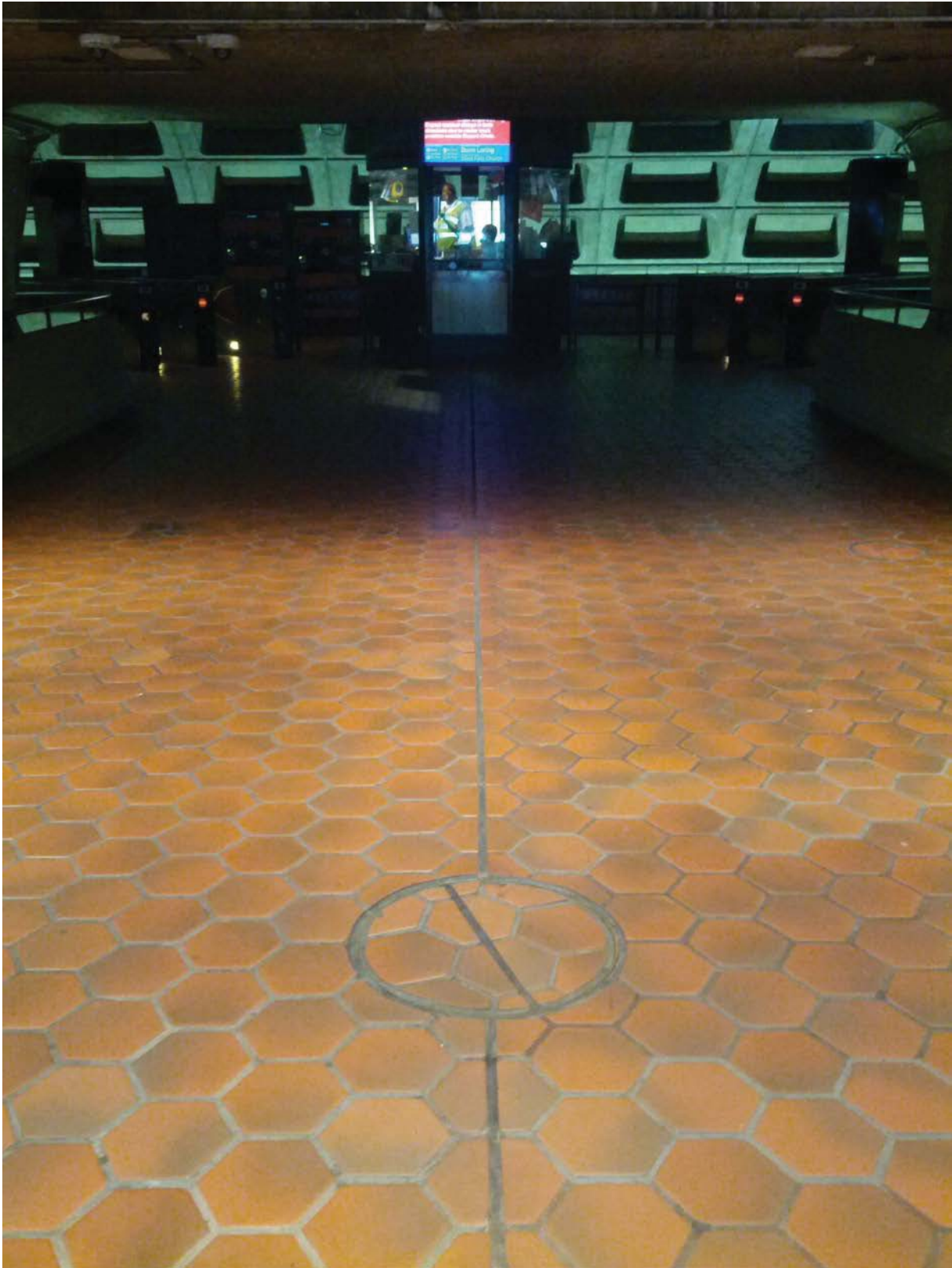
Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/30/2014	Station Name: Waterfront - F04	Mezzanine #: 083	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: WAC Essential Source Breaker Name/Number: XFMR Breaker "Panel MESS-1" - (Circuit #6) Electrical AFC Panel Name/Number: MESS-1	Rm 203 Rm 203 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: 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 on the same 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 MEE Source Breaker Name/Number: Circuit #6 Panel Name/Number: Kiosk Emergency Panel	Rm C206 Rm C206 Kiosk	
Notes and Discrepancies: Panel KE (breaker #4) in Kiosk de-energizes emergency power to faregates.				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	09/30/2014			

Picture 1: F04 Waterfront – Mezzanine manholes



Picture 2: F04 Waterfront – Mezzanine manhole-1



Picture 3: F04 Waterfront – Mezzanine manhole-2



Picture 4: F04 Waterfront – Mezzanine manhole-3



Picture 5: F04 Waterfront – Room C206 manholes



Picture 6: F04 Waterfront – Panel MESS-1 in Room C206



Picture 7: F04 Waterfront – Panel MESS-1 in Room C206



Picture 8: F04 Waterfront – Panel MESS-1 in Room C206



Picture 9: F04 Waterfront – Panel MESS-1 in Room C206



Picture 10: F04 Waterfront – Panel MESS-1 schedule in Room C206

PANEL NO: MESS1 ESSENTIAL
TYPE: 120/208V, 3Ø, 4W, DLT.

LOCATION: CENTER M.E.R.
MAIN: 400 AF/250 AT, 10,000 A.I.C. MIN.
MOUNTING: SURFACE

DESCRIPTION	CONNECTED LOAD KVA			CIRCUIT BREAKER		CKT NO	A	B	C	CKT NO	CONNECTED LOAD KVA			DESCRIPTION		
	AØ	BØ	CØ	FRAME	TRIP AIC						AØ	BØ	CØ			
TRANSFER VENDOR MACHINTG	.72			100	20	10,000				2	100	20	10,000	SPARE		
		.72		100	20	10,000				4	100	20	10,000			
MFT 2000 ENTR. PASS.			1.2	100	20	10,000				6	100	20	10,000	FARE VEND MACH. (FREE)		
	1.5			100	20	10,000				8	100	20	10,000	FARE VEND MACH. (FREE)		
		1.2		100	20	10,000				10	100	20	10,000	FARE VEND MACH. (FREE)		
			0.6	100	20	10,000				12	100	20	10,000	FARE VEND MACH. (FREE)		
ATC MACH. (PAID) (M.V.C.)	1.8			100	20	10,000				14	100	20	10,000	FARE VEND MACH. (FREE)		
KCC MACH. (PAID) (M.V.C.)	1.8			100	20	10,000				16	100	20	10,000	FARE VEND MACH. (FREE)		
SPARE				100	20	10,000				18	100	20	10,000	AGENT READER (A) (PAID)		
				100	20	10,000				20	100	20	10,000	AGENT READER (A) (PAID)		
				100	20	10,000				22	100	20	10,000	FARE GATE (EAST)		
				100	20	10,000				24	100	20	10,000	FARE GATE (EAST)		
				100	20	10,000				26	100	20	10,000	FARE GATE (EAST)		
				100	20	10,000				28	100	20	10,000	FARE GATE (EAST)		
AGENT READER (A) (PAID) (M.V.C.)			1.2	100	20	10,000				30	100	20	10,000	FARE GATE (WEST)		
AGENT READER (B) (PAID) (M.V.C.)			1.2	100	20	10,000				32	100	20	10,000	FARE GATE (WEST)		
KIOSK PANEL RESECR N.I.C.	3.1			100	20	10,000				34	100	20	10,000	FARE GATE (WEST)		
		3.1		100	20	10,000				36	100	20	10,000	FARE GATE (EAST)		
			3.2	100	20	10,000				38	100	20	10,000	FARE GATE (EAST)		
SPARE				100	20	10,000				40	100	20	10,000	FARE GATE (EAST)		
				100	20	10,000				42	100	20	10,000	SPARE		
SUB-TOTAL										8.1	6.9	6.8	SUB-TOTAL			
CONNECTED LOAD										AØ	18.3	KVA = 155	AMPS	BEST DEMAND LOAD: FARE COLLECTING EQUIP. LOAD = 42.4 KVA @ 70% D.F. = 39.1 KVA		
										BØ	13.7	KVA = 145	AMPS	HEATING LOAD = 4.0 @ 70% D.F. = 2.8 KVA		
										CØ	13.1	KVA = 145	AMPS	A.C. LOAD = 3.2 @ 70% D.F. = 2.2 KVA		
TOTALS :										35.1		KVA	FAN LOAD = 0.7 @ 70% D.F. = 0.5 KVA			
												LIGHTING LOAD = 1.0 @ 100% D.F. = 1.0 KVA				
												RECEPT. LOAD = 0.8 @ 100% D.F. = 0.8 KVA				
												TOTAL SUMMER DEMAND: 48.8 KVA				
												TOTAL WINTER DEMAND: 44.2 KVA				

Picture 11: F04 Waterfront – Panel MESS-1 shared trough in Room C206



Picture 12: F04 Waterfront – Panel MESS-1 shared trough in Room C206



Picture 13: F04 Waterfront – Panel MESS-1 shared trough in Room C206



Picture 14: F04 Waterfront – WAC Essential Panel in Room 203



Picture 15: F04 Waterfront – WAC Essential Panel – XFMR Panel-MESS1 Circuit 6 in Room 203



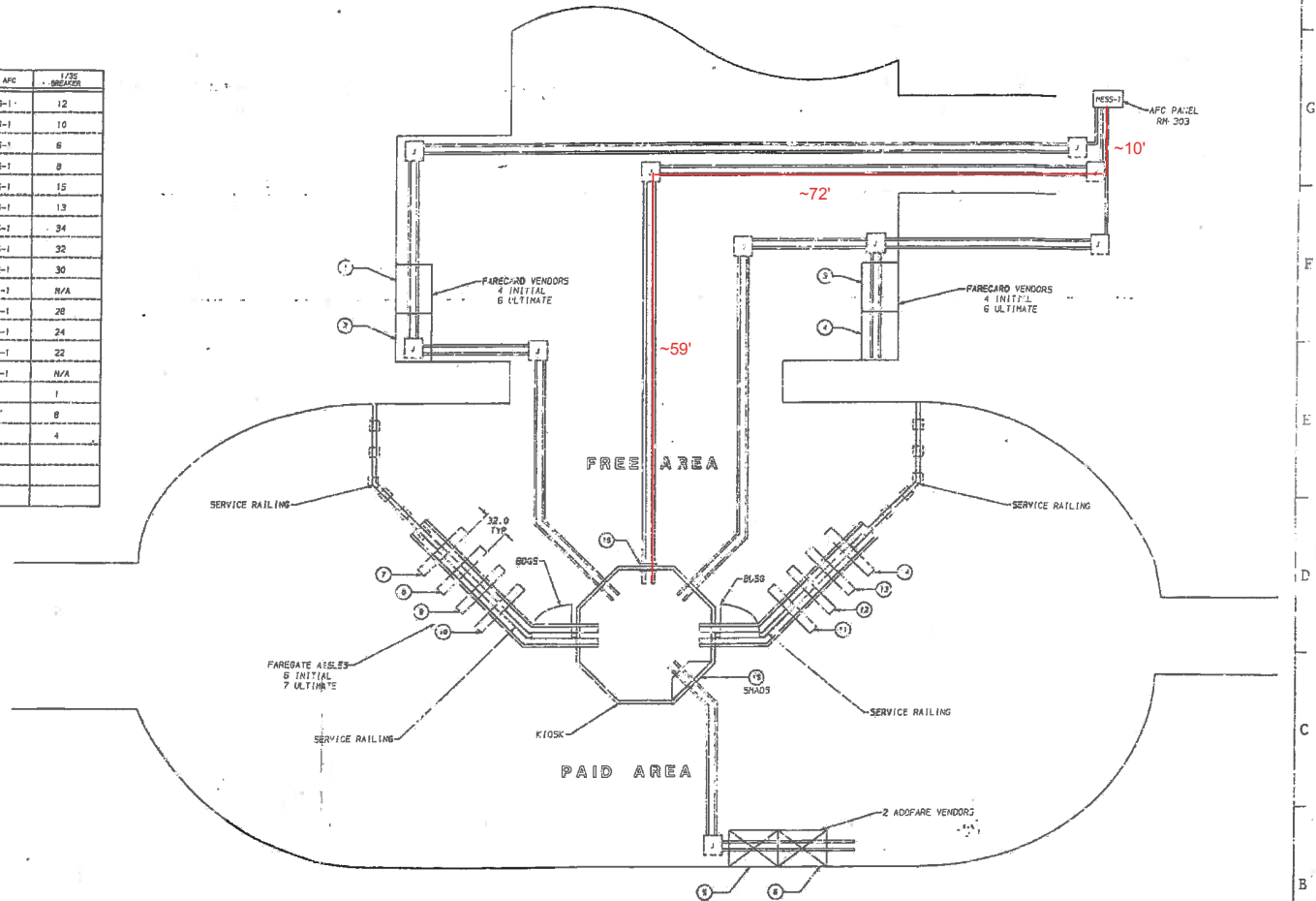
Pre-Inspection Field
Verification 9/30/2014

REV	DATE	BY	DESCRIPTION
1	03/20/12	BUC	INITIAL RELEASE
2	03/20/12	BUC	INITIAL RELEASE

ITEM	NAME	S/N	PANEL APC	TYPE
1	VENDOR	1903	MESS-1	12
2	VENDOR	1904	MESS-1	10
3	VENDOR	1900	MESS-1	6
4	VENDOR	1990	MESS-1	8
5	ADDFARE	2918	MESS-1	15
6	ADDFARE	2936	MESS-1	13
7	ENTRY GATE	3027	MESS-1	34
8	REV. GATE	7901	MESS-1	32
9	REV. GATE	7900	MESS-1	30
10	EXIT GATE	4827	MESS-1	N/A
11	ENTRY GATE	3821	MESS-1	28
12	REV. GATE	7899	MESS-1	24
13	REV. GATE	7895	MESS-1	22
14	EXIT GATE	4828	MESS-1	N/A
15	SMADS	8817	KE	1
16	S. CLOCK	95721	KE	8
17	EMERGENCY LT		KE	4

NOTES:

- FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
- FOR SHADS 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,
10 & 12, 6 & 8, 12 & 15, 29, 32 & 34; 22, 24 & 28.



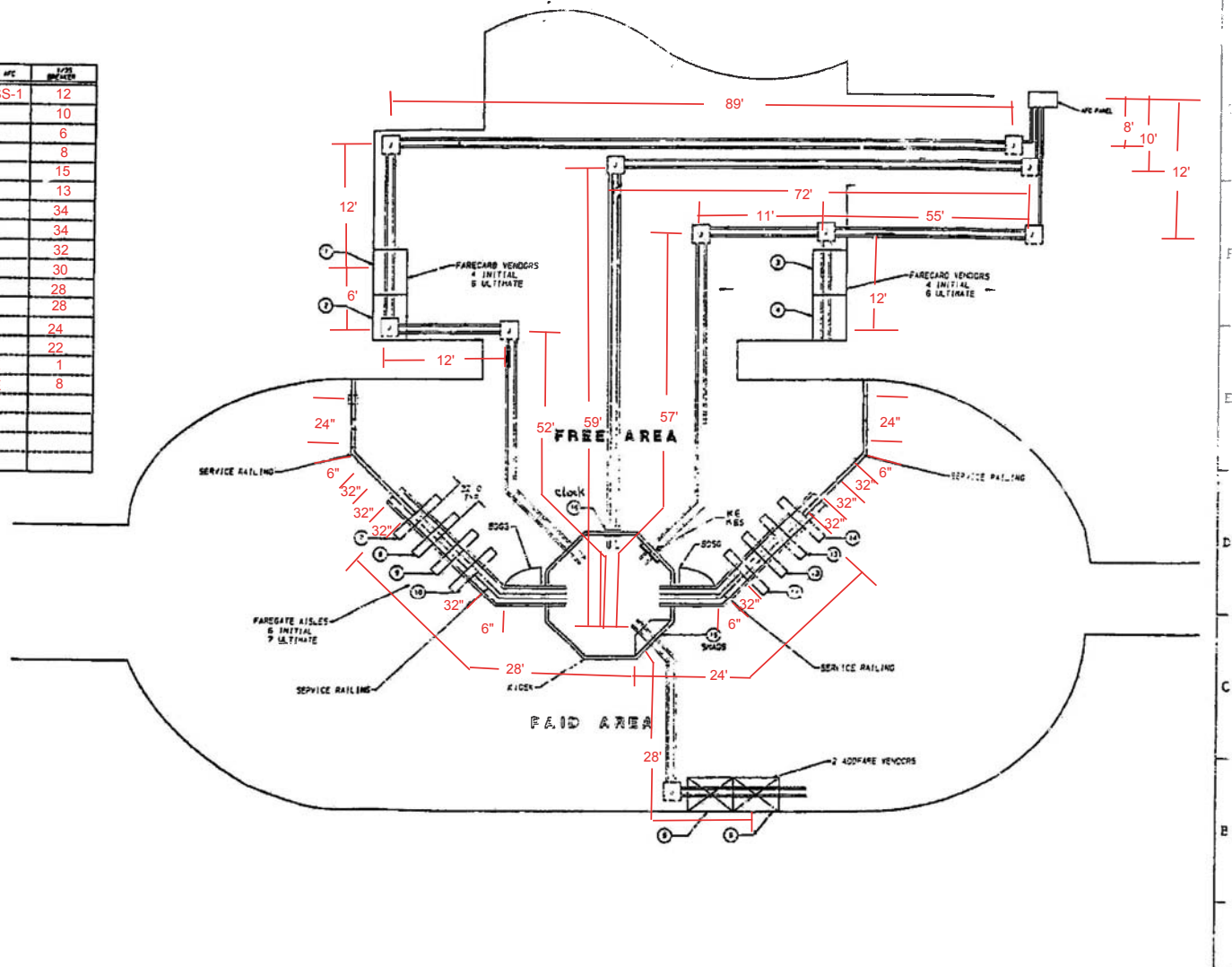
MEZZANINE NO. 83

SEE DRAWING 931-4000 FOR MEZZANINE NO. 83 LAYOUT. THIS DRAWING IS THE ONLY ONE TO BE USED FOR THE MEZZANINE NO. 83 LAYOUT. IN CASE OF A DISCREPANCY, THIS DRAWING SHALL TAKE PRECEDENCE.	DRAWN BY: M. J. JAMES CHECKED BY: M. J. JAMES DATE: 03/20/12	PROJECT NO.: 931-4000 SHEET NO.: 83-1 TOTAL SHEETS: 1	CUBIC CONSULTING 931-4000
--	--	---	---------------------------------

Pre-Inspection Field
Verification 9/30/2014

REVISIONS
DATE: 9/30/14
BY: JMM
REASON: INITIAL RELEASE

ITEM	NAME	SYM	PANEL NO.	F/P/ST NUMBER
1	VENDOR	FV1903	MESS-1	12
2	VENDOR	FV1904	"	10
3	VENDOR	FV1900	"	6
4	VENDOR	FV1890	"	8
5	ADDFARE	AF2818	"	15
6	ADDFARE	AF2836	"	13
7	ENTRY GATE	EG3827	"	34
8	REV. GATE	RG7901	"	34
9	REV. GATE	RG7900	"	32
10	EXIT GATE	XG4827	"	30
11	ENTRY GATE	EG3831	"	28
12	REV. GATE	RG7899	"	28
13	REV. GATE	RG7895	"	24
14	EXIT GATE	XG4828	"	22
15	SPADS	SM8817	KE	1
16	S. CLOCK		KE	8
	EMER LTS			



NOTICE OF WORK STATION NO. 100110
FOR THIS WORKING PERMIT THE WORK SHALL BE DONE WITHIN THE DATE SHOWN
ON THIS PERMIT AND NOT BE COMPLETED THEREAFTER. THE CONTRACTOR SHALL
BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THIS WORK AND SHALL BE RESPONSIBLE
FOR THE COST OF REPAIRS.

DATE: 9/30/14	BY: JMM	REASON: INITIAL RELEASE	
PROJECT: METRO STATION	LOCATION: METRO STATION	DATE: 9/30/14	

43

Pre-Inspection Field
Verification 9/30/2014

EXISTING PANEL "MESS-1"									
AMPERES: 250		VOLTS: 120/208		MOUNTING: SURFACE					
MAINS: 250A MCB		PHASE: 3		LOCATION: MECH. EQUIPMENT ROOM C206 ✓					
RATING: 10K AIG		WIRE: 4		SECTION: 1 OF 1					
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	NO.	POLE	AMP	KVA	LOAD DESCRIPTION
EXISTING VENDOR	0.9	20	1	1	A	2	1	20	NEW KIOSK RECEPT. (T & NEPP) 1 ✓
EXISTING VENDOR	0.8	20	1	3	B	4	1	20	SPARE (KIOSK) 1&2 ✓
EXISTING VENDOR	0.8	20	1	5	C	6	1	20	EXISTING VENDOR
EXISTING VENDOR	0.9	20	1	7	A	8	1	20	EXISTING VENDOR
SPARE	0.9	20	1	9	B	10	1	20	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	C	12	1	20	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	A	14	1	20	SPARE
EXISTING VENDOR	0.8	20	1	15	B	16	1	20	SPARE
SPARE	0.0	20	1	17	C	18	1	20	SPARE
SPARE	0.0	20	1	19	A	20	1	20	SPARE
SPARE	0.0	20	1	21	B	22	1	20	EXISTING VENDOR
EXISTING VENDOR	0.9	20	1	23	C	24	1	20	EXISTING VENDOR
SPARE	0.9	20	1	25	A	26	1	20	EXISTING VENDOR
SPARE	0.0	20	1	27	B	28	1	20	EXISTING VENDOR
SPARE	0.0	20	1	29	C	30	1	20	EXISTING VENDOR
SPARE	0.0	20	1	31	A	32	1	20	EXISTING VENDOR
SPARE	0.0	20	1	33	B	34	1	20	EXISTING VENDOR
EXIST. LOAD CENTER "KES"	2.9	30	3	35	C	36	1	20	EXISTING VENDOR
	2.5	-	-	37	A	38	-	-	SPACE
	2.5	-	-	39	B	40	-	-	SPACE
SPACE	0.0	-	-	41	C	42	-	-	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	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:	9.3 KVA	

AFC Panel MESS-1 (Rm C206) feed from WAC Essential (Rm 203)

- NOTES: A. EXISTING PANEL "MESS-1" IS FED FROM 277/480V, 3Ø, 4W EXISTING SWITCHBOARD "WES" LOCATED IN AG-SWBD-RM-203, CIRCUIT # 175A/3Ø VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E10).
- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 2-12" 6"Ø FLOOR DUCT W/2-4" C. (1-WIRING FILL >40% & 1-WIRING FILL >20%).
- EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-2" C. (WIRING FILL >40%).
* 2-3/4" C. (WIRING FILL >40%).

XFMR Breaker "Panel MESS-1" - (Breaker 6)

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED: J. MO	DATE: 08-14	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
DRAWN: C. MO	DATE: 08-14				
CHECKED: B. MO	DATE: 08-14				
APPROVED: M.A.	DATE:				

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

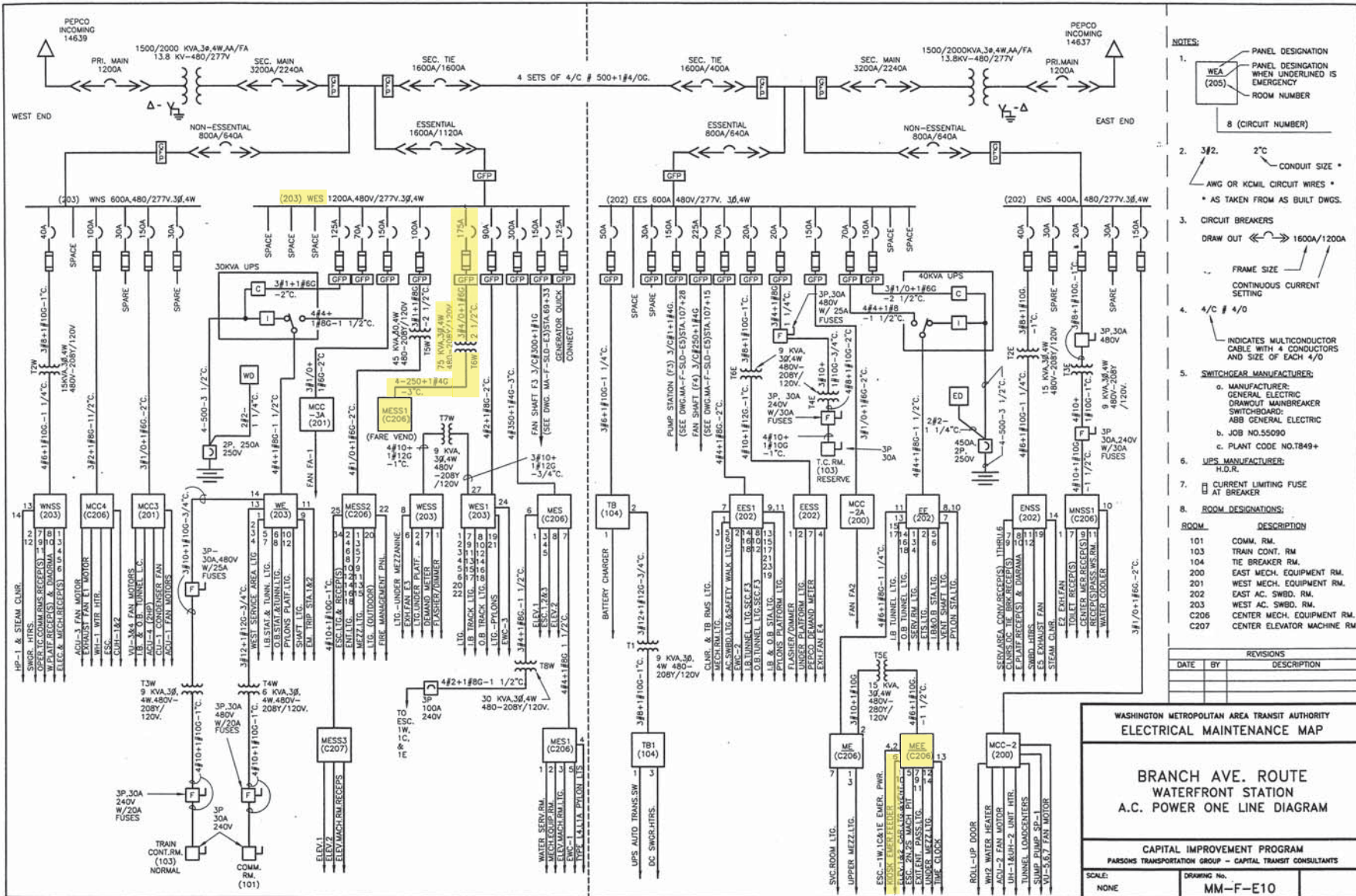
GFP A Gannett Fleming/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER _____

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

SCALE: NOT TO SCALE

DRAWING NO.: F04-E-102



- NOTES:**
1. PANEL DESIGNATION
 PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
 ROOM NUMBER
 8 (CIRCUIT NUMBER)
 2. 3/2" 2"Ø
 CONDUIT SIZE *
 AWG OR KCMIL CIRCUIT WIRES *
 * AS TAKEN FROM AS BUILT DWGS.
 3. CIRCUIT BREAKERS
 DRAW OUT \rightarrow 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. SWITCHGEAR MANUFACTURERS:
 a. MANUFACTURER:
 GENERAL ELECTRIC
 DRAWOUT MAINBREAKER
 SWITCHBOARD:
 ABB GENERAL ELECTRIC
 b. JOB NO.55090
 c. PLANT CODE NO.1849+
 6. UPS MANUFACTURER:
 H.O.R.
 7. CURRENT LIMITING FUSE AT BREAKER
 8. ROOM DESIGNATIONS:

ROOM	DESCRIPTION
101	COMM. RM.
103	TRAIN CONT. RM
104	THE BREAKER. RM.
200	EAST MECH. EQUIPMENT RM.
201	EAST MECH. EQUIPMENT RM.
202	EAST AC. SWBD. RM.
203	WEST AC. SWBD. RM.
C206	CENTER MECH. EQUIPMENT RM.
C207	CENTER ELEVATOR MACHINE RM.

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**BRANCH AVE. ROUTE WATERFRONT STATION
 A.C. POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE
 DRAWING NO. MM-F-E10

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 09/30/2014	Station Name: F05 Navy Yard (West)	Mezzanine # 105	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 Source Breaker Name/Number: Disconnect switch "DS-1" Electrical AFC Panel Name/Number: WMESS	215 401 401	
<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: DS-1 SMNT/POWR escorts: 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)		Will be difficult to install pull string as run includes an overhead cable trough and multiple levels of conduit/raceway/walker duct
<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		

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: Need latest AFC installation plan due to reconstruction of west mezzanine.

Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:		
Date:	9/30/14	

Photo #1: F05 Navy Yard (West) – Panel Disconnect Switch DS-1



Photo #2: F05 Navy Yard (West) – Handholes at mezzanine level



Photo #3: F05 Navy Yard (West) – Conduit transition near the ceiling from panel WMESS in Room 401



Photo #4: F05 Navy Yard (West) – Conduit risers from Panel WMESS in Room 401



Photo #5: F05 Navy Yard (West) – Panel WMESS Label in Room 401



Photo #6: F05 Navy Yard (West) – Schedule of Panel WMESS in Room 401

Date: 2/12/08		Job Name: Navy Yard		Job #: 0037		Completed By: Gary Hutt	
Identification: <u>WMESS</u>							
Location: <u>P1 ELECTRIC ROOM</u>							
Instructions: <u>ALL LOADS MUST BE COMPLETELY AND ACCURATELY DESCRIBED</u>							
Circuit No.	Serving	Circuit No.	Serving	Circuit No.	Serving	Circuit No.	Serving
1	METRO LOAD	2	FARE GATE CONSOLES				
3	METRO LOAD	4	FARE GATE CONSOLES				
5	METRO LOAD	6	FARE GATE CONSOLES				
7	VEND MACHN - PAID AREA	8	FARE GATE CONSOLES				
9	VEND MACHN - PAID AREA	10	FARE GATE CONSOLES				
11	VEND MACHN - PAID AREA	12	FARE GATE CONSOLES				
13	VEND MACHN - FREE AREA	14	FARE GATE CONSOLES				
15	TELEPHONE CASE-FREE AREA	15	FARE GATE CONSOLES				
17	VEND MACHN - FREE AREA	16	FARE GATE CONSOLES				
19	VEND MACHN - FREE AREA	20	FARE GATE CONSOLES				
21	VEND MACHN - FREE AREA	22	FARE GATE CONSOLES				
23	VEND MACHN - FREE AREA	24	FARE GATE CONSOLES				
25	VEND MACHN - FREE AREA	26	FARE GATE CONSOLES				
27	VEND MACHN - FREE AREA	28	FARE GATE CONSOLES				
29	MAPE CASE-FREE AREA	30	FARE GATE CONSOLES				
31	ATM FREE-AREA	32	MAP CASE PAID AREA				
33	SPARE	34	TRANSFER DISPENSER				
35	BLANK	36	TELEPHONE CASE PAID AREA				
37	SMART TRIP	403 36	PANEL WKES (KIOSK)				
38	SMART TRIP	40	PANEL WKES (KIOSK)				
41		42	PANEL WKES (KIOSK)				

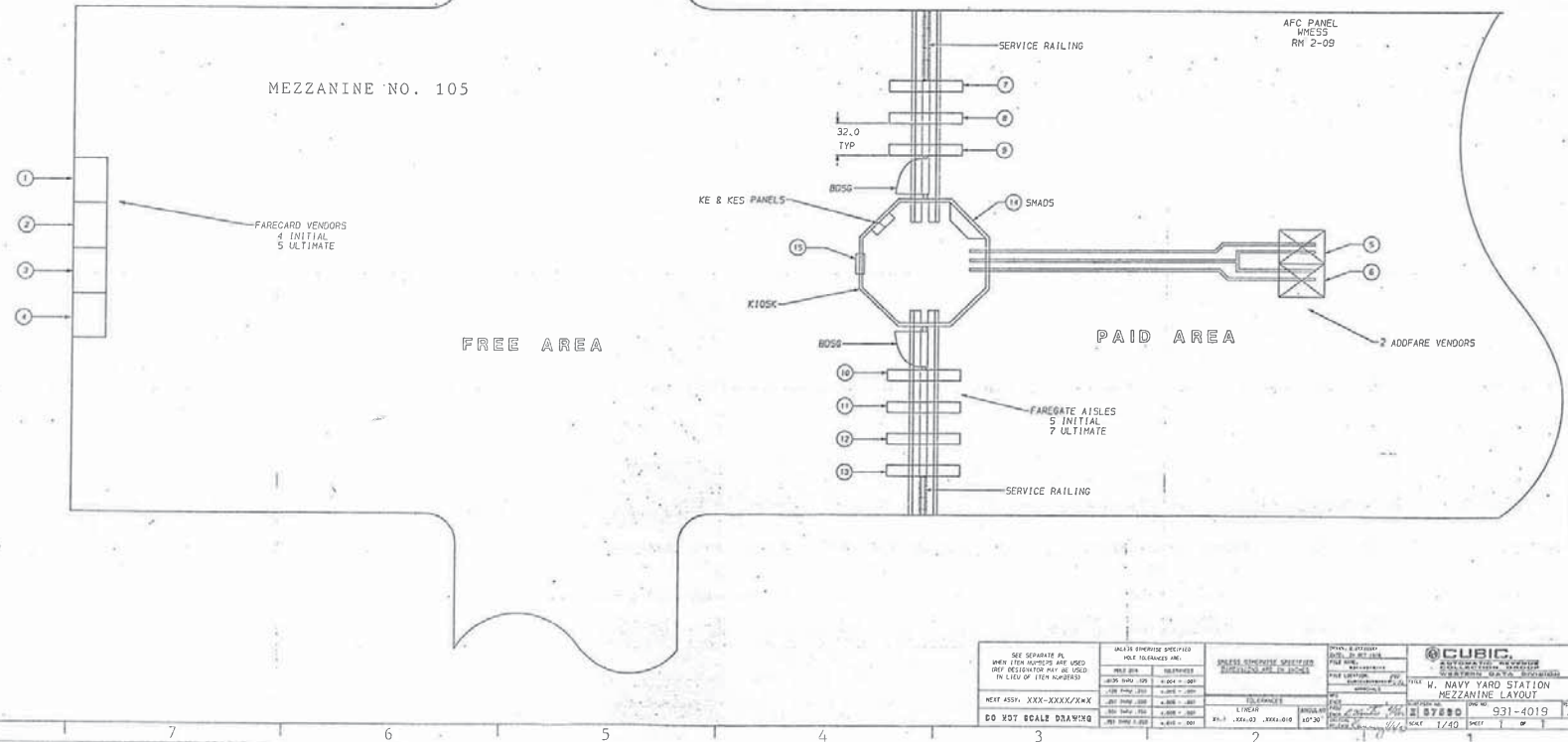
NOTES:

1. FOR VENDOR AND ADOFARE 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, 10 & 12, 1 & 3, 7, 9 & 11.

Pre-inspection Field Verification
9/30/2014

Mezzanine layout is obsolete;
need new street-level
mezzanine layout

ITEM	NAME	S/N	PANEL AFC	1/35 BREAKER
1	VENDOR	1889	WMESS	2
2	VENDOR	1902	WMESS	4
3	VENDOR	1887	WMESS	6
4	VENDOR	1901	WMESS	8
5	ADOFARE	2835	WMESS	12
6	ADOFARE	2837	WMESS	10
7	EXIT GATE	4826	WMESS	N/A
8	REV. GATE	7887	WMESS	3
9	ENTRY GATE	3825	WMESS	1
10	EXIT GATE	4825	WMESS	N/A
11	REV. GATE	7889	WMESS	7
12	REV. GATE	7886	WMESS	9
13	ENTRY GATE	3828	WMESS	11
14	SHADS	8806	KE	4
15	S. CLOCK	95722	KES	1
16	EMERGENCY LTS		KE	8



SEE SEPARATE PL WHEN ITEM NUMBERS ARE USED ONLY REGISTRATION MAY BE USED IN LIEU OF ITEM NUMBERS	UNLESS OTHERWISE SPECIFIED USE DIMENSIONS IN: INCHES FRACTIONS DECIMALS TOLERANCES UNLESS OTHERWISE SPECIFIED FRACTIONS DECIMALS TOLERANCES	UNLESS OTHERWISE SPECIFIED USE DIMENSIONS IN: INCHES FRACTIONS DECIMALS TOLERANCES	UNLESS OTHERWISE SPECIFIED USE DIMENSIONS IN: INCHES FRACTIONS DECIMALS TOLERANCES
NEXT ASSY: XXX-XXX/XX	CO NOT SCALE DRAWING	LINEAR R.1 1/32-0.0001-0.010	PROJECT DATE SCALE SHEET
<p>CUBIC CORPORATION 1111 W. NAVY YARD STATION MEZZANINE LAYOUT</p>			<p>931-4019 A</p>

Pre-inspection Field Verification
9/30/2014

EXISTING PANEL "EMESS" (East)												
AMPERES: 150		VOLTS: 120/208		MOUNTING: SURFACE								
MAINS: 150AMCB		PHASE: 3		LOCATION: ELEC. EQUIPMENT RM. 204								
RATING: 10K AC		WIRE: 4		SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	CKT BKRS			NO.	CKT.			KVA	LOAD DESCRIPTION		
		AMP	POLE			NO.	POLE	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
SPARE	0.0	20	1	17	-	-	C	18	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)
SPARE	0.0	20	1	19	A	-	20	1	20	0.8	NEW KIOSK RECEPT. (IT & 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 (KIOSK)
EXISTING VENDOR	0.8	20	1	25	A	-	26	1	20	0.0	SPARE	
EXISTING VENDOR	0.8	20	1	27	-	B	-	28	1	20	0.0	SPARE
EXISTING VENDOR	0.8	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	3	30	2.9	EXIST. LOAD CENTER "KES"	
SPARE	0.0	20	1	39	-	B	-	40	-	-	2.5	
SPARE	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	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 "EMESS" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "ESSENTIAL POWER SWBD" LOCATED IN AC SWBD. RM. C216, CIRCUIT #12-250A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-12).
B. EXISTING WIRING FED FROM BOTTOM PANEL BY:
* 2-8 1/2" x 1 1/2" FLOOR DUCTS (>40% FILL W/WIRING).
EXISTING WIRING FED FROM TOP PANEL BY:
* 5-3/4" C. (>40% FILL W/WIRING).
EXISTING WIRING FED FROM RIGHT SIDE PANEL BY:
* 1-4" C. TO TRANSFORMER (>40% FILL W/WIRING).

EXISTING PANEL "WMESS" (West)												
AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE								
MAINS: 225AMCB		PHASE: 3		LOCATION: ELEC ROOM 401								
RATING: 10K AC		WIRE: 4		SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	CKT BKRS			NO.	CKT.			KVA	LOAD DESCRIPTION		
		AMP	POLE			NO.	POLE	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
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. (IT & NEPP)	
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	SPARE (KIOSK)	
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	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	3	40	2.8	EXIST. LOAD CENTER "KES"	
EXISTING VENDOR	0.8	20	1	39	-	B	-	40	-	-	2.5	
SPARE	0.0	-	-	41	-	-	C	42	-	-	2.5	

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

ATM is #31 in WMESS

LOAD SUMMARY		
LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	19.2 x 50%	9.6 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	38.7 KVA	TOTAL DEMAND KVA 27.9 KVA
		TOTAL DEMAND AMPS 77.4 AMPS


CONNECTED LOAD PHASE SUMMARY	
PHASE A	12.5 KVA
PHASE B	12.9 KVA
PHASE C	11.3 KVA

NOTES: A. EXISTING PANEL "WMESS" IS FED FROM 277/480V, 3ø, 4W EXISTING SWITCHBOARD "ESSENTIAL SWBD" LOCATED IN AC SWBD. ROOM 215, CIRCUIT #2-250A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-12).
B. EXISTING WIRING FED FROM BOTTOM PANEL BY:
* 1-4" C. TO TRANSFORMER (>40% FILL W/WIRING).
EXISTING WIRING FED FROM TOP PANEL BY:
* 5-1 1/2" C. (>30% FILL W/WIRING).

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED C. MDD	DATE 08-14	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
DRAWN C. MDD	DATE 08-14				
CHECKED A. MDD	DATE 08-14				
APPROVED JVA	DATE				

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

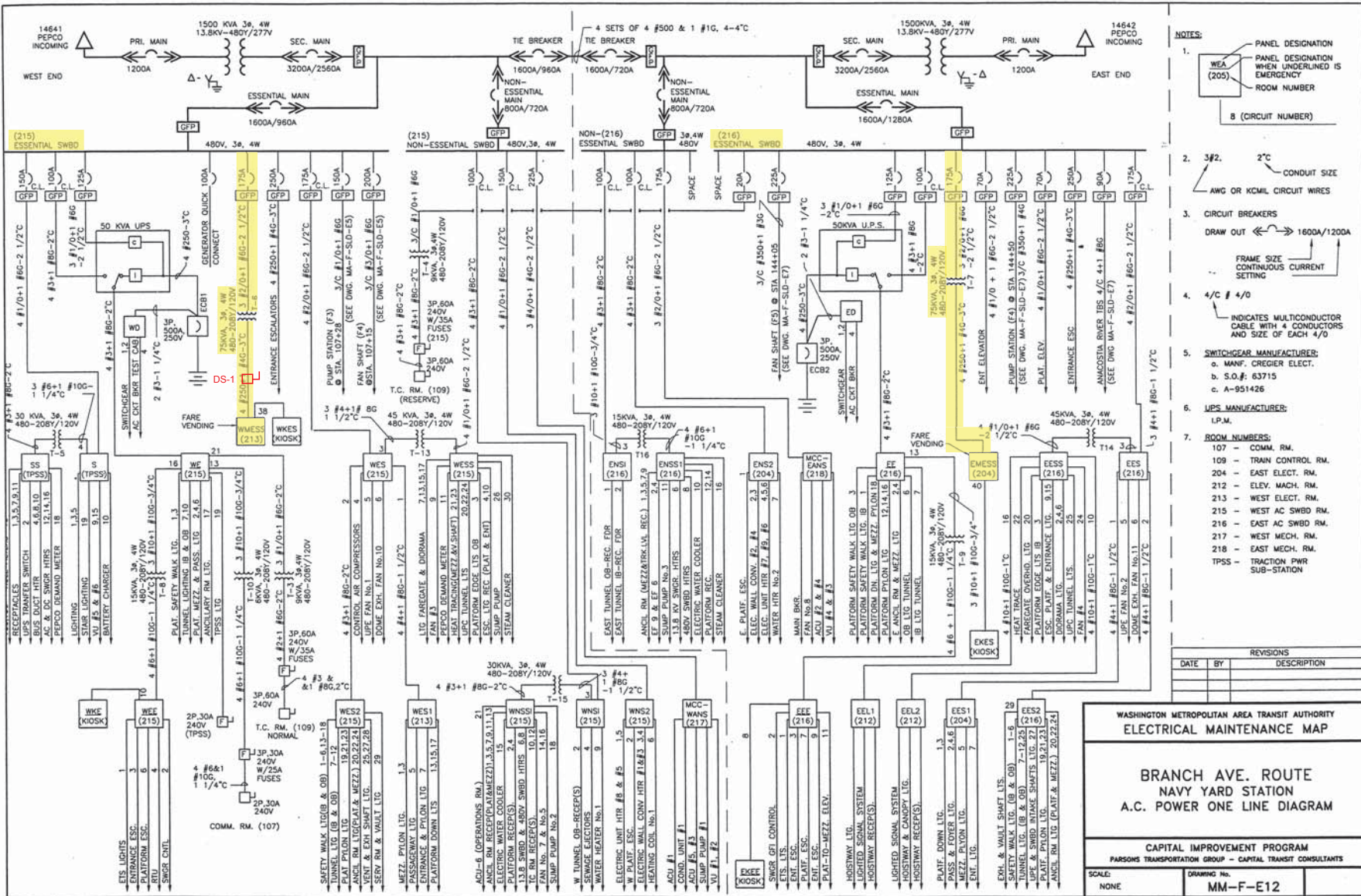


APPROVED _____ SUBMITTED _____ PROJECT MANAGER


NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRO RAIL STATIONS NAVY YARD EAST & WEST PANEL SCHEDULES

SCALE: NOT TO SCALE DRAWING NO: F05-E-102

Pre-inspection Field Verification
9/30/2014



Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014	Station Name: Anacostia (North) - F06	Mezzanine #: 085	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: NSM Source Breaker Name/Number: Breaker #1 Electrical AFC Panel Name/Number: NSF	Rm 301 Rm 301 Rm 301	
<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 type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		No handholes found at mezzanine between AFC panel and Kiosk.
<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. Straight shot of about 70' from AFC panel to Kiosk.
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: NSE Emergency Source Breaker Name/Number: Breaker #2 Panel Name/Number: Kiosk Panel	Rm 301 Rm 301 Kiosk	Panel KE located in Kiosk, Breaker #4 will de-energize emergency power to faregates.
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	10/28/2014			

Picture 1: F06 Anacostia (North) – No handholes in mezzanine



Picture 2: F06 Anacostia (North) – AFC Panel NSF in room 301



Picture 3: F06 Anacostia (North) – AFC Panel NSF in room 301



Picture 4: F06 Anacostia (North) – AFC Panel NSF in room 301, bottom ducts & conduit



Picture 5: F06 Anacostia (North) – AFC Panel NSF in room 301, panel schedule

NSF PANEL	
1	FARE GATE
2	SPARE
3	FARE GATE
4	LIGHTING #10 RG7876
5	FARE GATE #11 RG7867
6	FARE VEND-FREE A #36 FV1885
7	FARE GATE #12 RG7866
8	SMARTRIP VENDOR
9	FARE GATE #13 RG7863
10	FARE VEND-FREE A #32 FV1875
11	FARE GATE #14 RG7861
12	FARE VEND-FREE A #30 FV1873
13	FARE GATE #15 RG7859
14	SMARTRIP VENDOR (fut.)
15	FARE GATE #16 RG7858
16	FARE VEND-FREE A #33 FV1876
17	FARE GATE #17 RG7857
18	FARE VEND-FREE A #31 FV1874
19	FARE GATE #18 EG3822
20	FARE VEND-PAID A #51 AF2823
21	TRANSFER DISPENSER
22	FARE VEND-PAID A #50 AF2807
23	TRANSFER DISPENSER
24	SPACE
25	MAP CASE LTG (2)
26	SPACE
27	MAP CASE LTG (2)
28	SPARE
29	SPARE
30	SPARE
31	SPARE PIDS MESS incorrect INFO
32	KIOSK PNL "KEN" (NIC)
33	SPARE PIDS AT NORTH METS
34	SPACE
35	SPACE
36	SPACE
37	SPACE

Picture 6: F06 Anacostia (North) – Panel NSM in room 301



Picture 7: F06 Anacostia (North) – Panel NSM in room 301, panel schedule

A handwritten panel schedule on lined paper, showing a list of electrical loads and their corresponding panel numbers. The paper has a significant tear at the top. The entries are as follows:

Panel No.	Description	Notes
2	75KVA (T3) PNL "NSF"	
2	15KVA (T2) PNL "NSO"	
3	SPARE	
4	LTG SVCE RM (FAR)	
5	LIGHTING (12)	✓
6	LIGHTING (7)	✓
7	LIGHTING (12)	✓
8	LIGHTING (8)	✓
9	LIGHTING (9)	✓
10	LIGHTING (5)	✓
11	LTG SERV RM (NEAR)	
12	ENT LTG - PE	✓
13	SPARE	HEATER W/PLE MICRO P ROOM
14	ENT LTG - PE	✓
15	SPARE	
16	SPARE	
17	SPARE	
18	SPARE	
19	SPARE	
20	SPARE	
21	✓ 15KVA PK LOT GATES	
22	15KVA PK LOT GATE	
23	15KVA PK LOT GATES	
24	SPARE	
25		
26	SPARE	
27		
28	SPARE	
29		
30		
31		

Pictures 8&9: F06 Anacostia (North) – Emergency Panel NSE in room 301

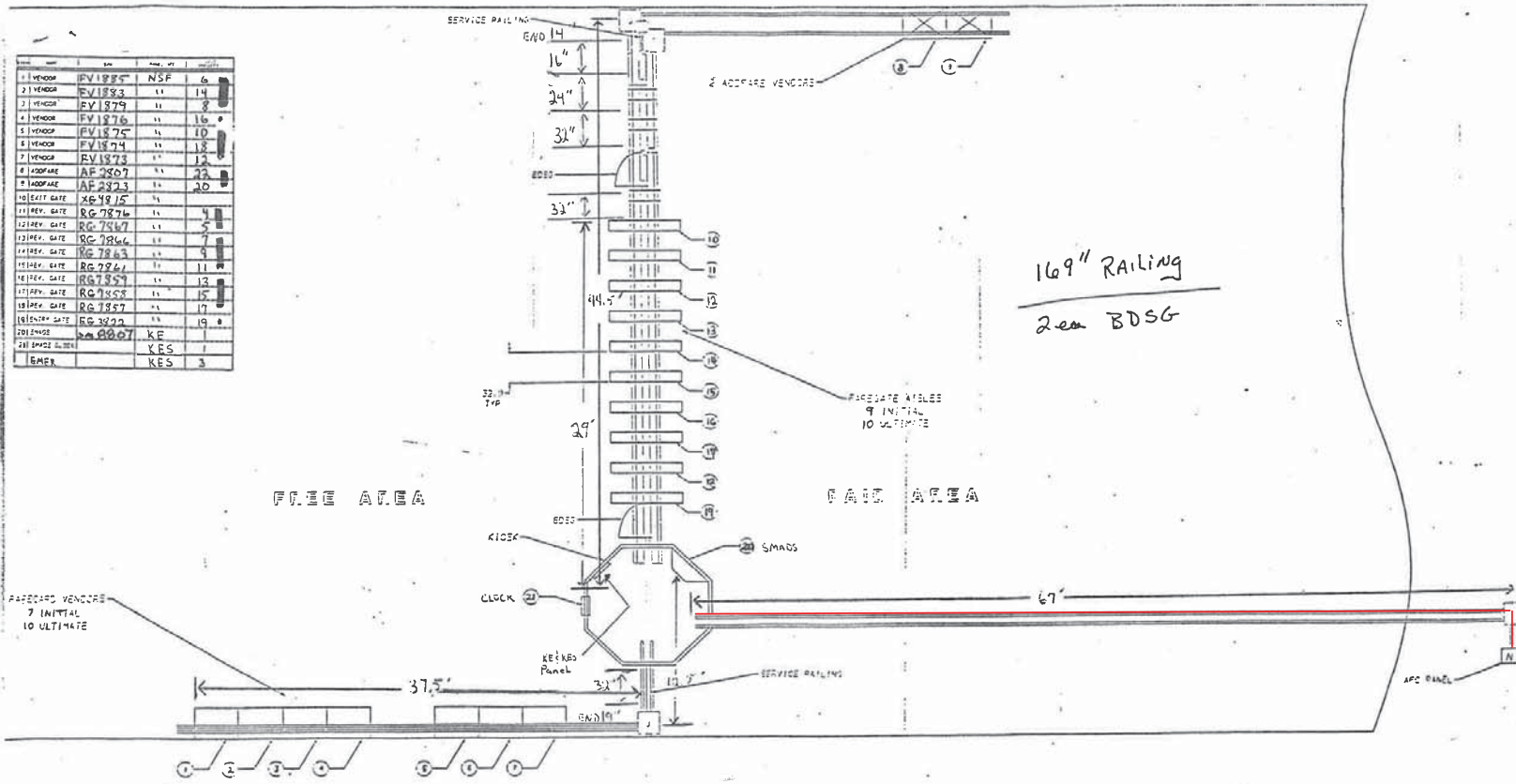


Picture 10: F06 Anacostia (North) – Emergency Panel NSE in room 301, Panel schedule

Table with 2 columns: Line Number and Description. The table is handwritten on a lined notepad.

NSE PANEL	
1	SPARE
2	PNL "KEN" KIOSK (NEC)
3	ELEVATOR
4	ESCALATORS
5	LTG SKYLIGHT
6	SPARE 120V DISC GAR.COM
7	ETS LTG PLATFORM
8	SPARE
9	BUSSED SPACE ESCALATORS
10	SPARE
11	BUSSED SPACE
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1	VENDOR	FV1875	NSF	6	
2	VENDOR	FV1873	NSF	14	
3	VENDOR	FV1874	NSF	8	
4	VENDOR	FV1876	NSF	16	
5	VENDOR	FV1875	NSF	10	
6	VENDOR	FV1874	NSF	12	
7	VENDOR	FV1873	NSF	12	
8	ADDFARE	AF2807	NSF	23	
9	ADDFARE	AF2823	NSF	20	
10	EXIT GATE	XE4815	NSF		
11	REV. GATE	RG7876	NSF	4	
12	REV. GATE	RG7867	NSF	5	
13	REV. GATE	RG7866	NSF	7	
14	REV. GATE	RG7865	NSF	9	
15	REV. GATE	RG7864	NSF	11	
16	REV. GATE	RG7859	NSF	12	
17	REV. GATE	RG7858	NSF	15	
18	REV. GATE	RG7857	NSF	17	
19	REV. GATE	RG7852	NSF	19	
20	PHASE	PH0007	KE		
21	SPACE SAVING		KES		
22	EMER		KES	3	

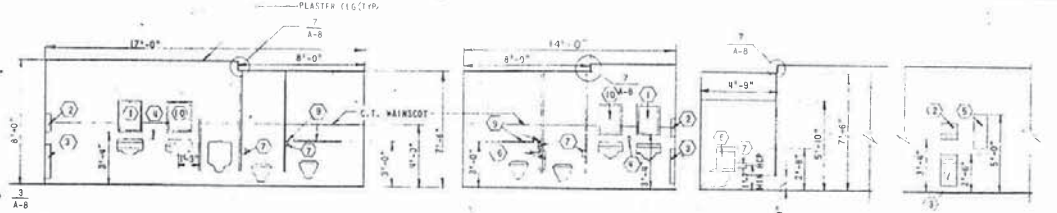
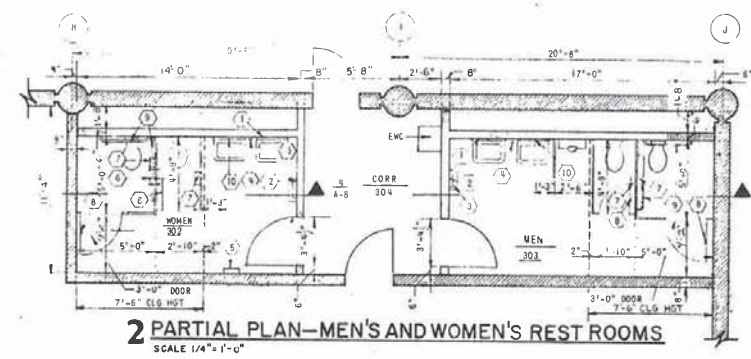


169" RAILING
2em BDSG

Ref. 931-4003
for WACKER Ducting
& WIRE SIZES & HYDRO CALLOUT

NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50

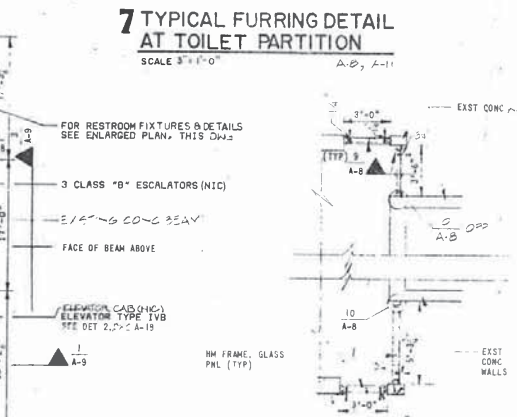
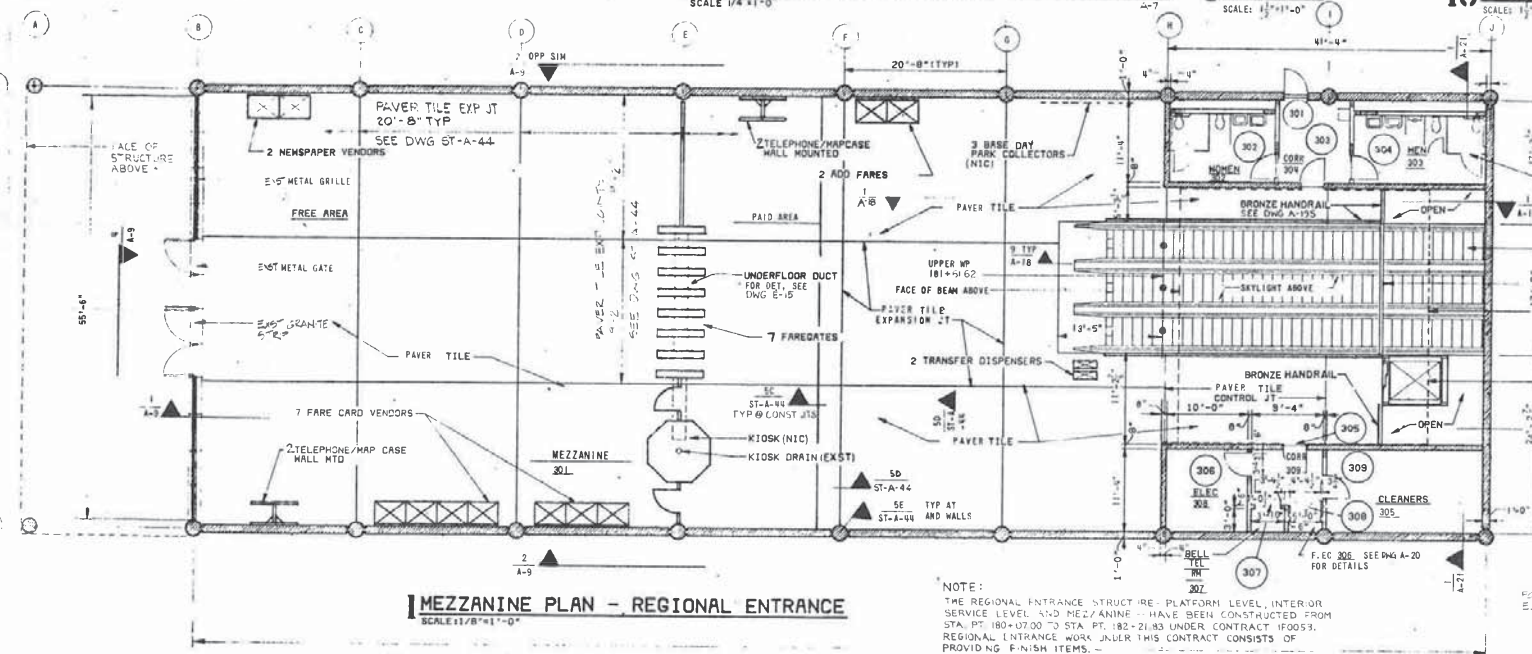
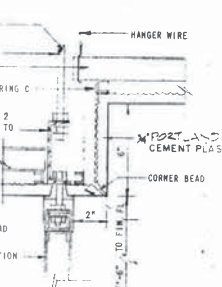
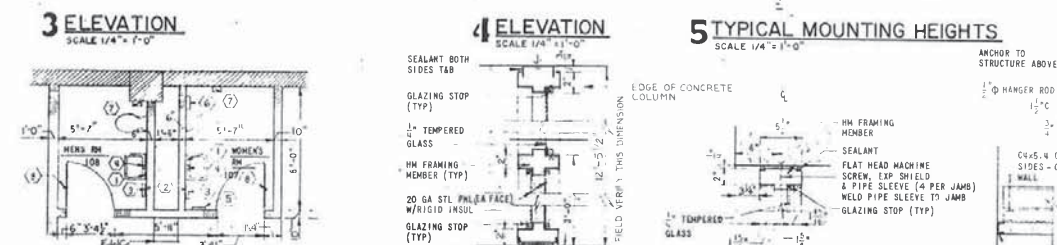
85



TOILET ACCESSORY SCHEDULE

1	MIRROR
2	PAPER TOWEL DISPENSER
3	WASTE RECEPTACLE
4	SOAP DISPENSER
5	SANITARY NAPKIN DISPENSER
6	SANITARY NAPKIN DISPOSAL
7	PAPER HOLDER
8	DOOR MOUNTED COATHOOK & BUMPER
9	HCP GRAB BARS
10	TILT MIRROR FOR HCP (22" H)

Pre-Inspection Field Verification 10/28/2014



NOTE:
THE REGIONAL ENTRANCE STRUCTURE, PLATFORM LEVEL, INTERIOR SERVICE LEVEL AND MEZZANINE HAVE BEEN CONSTRUCTED FROM STA. PT. 180+07.00 TO STA. PT. 182+21.83 UNDER CONTRACT IF0053. REGIONAL ENTRANCE WORK UNDER THIS CONTRACT CONSISTS OF PROVIDING FINISH ITEMS.

INFORMATION ONLY

DATE	BY	REVISIONS DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA
APPROVED: [Signature]
APPROVED: [Signature]

DELEUW, CATHEN & COMPANY
GENERAL ENGINEERING CONSULTANT
HARRY WEESE & ASSOCIATES
GENERAL ARCHITECTURAL CONSULTANT

DATE: 10/28/2014
SUBMITTAL: 0

ANACOSTIA STATION NORTH MEZZ.

A.F.C. LAYOUT

SCALE: AS SHOWN
DRAWING NO: [Blank]
IF0051

EXISTING PANEL "NSF" ✓

AMPERES: 175	VOLTS: 120/208	MOUNTING: SURFACE
MAINS: 175AMCB	PHASE: 3	LOCATION: ELEC. EQUIPMENT RM. 301 ✓
RATING: 10K AC	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	NEW KIOSK RECEPT. (IT & NEPP)
EXISTING VENDOR	0.8	20	1	3	B	-	4	1	20	0.0	SPARE (KIOSK)
EXISTING VENDOR	0.8	20	1	5	-	C	6	1	20	0.0	SPARE
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	0.0	SPARE
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	0.0	SPARE
SPARE	0.0	20	1	21	B	-	22	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	23	-	C	24	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	25	A	-	26	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	27	B	-	28	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	29	-	C	30	1	20	0.0	SPACE
SPARE	0.0	20	1	31	A	-	32	3	50	2.9	EXIST. LOAD CENTER 'KES'
EXISTING VENDOR	0.8	20	1	33	B	-	34	-	-	2.5	
EXISTING VENDOR	0.8	20	1	35	-	C	36	-	-	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	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	8.5 KVA
PHASE B	9.7 KVA
PHASE C	7.3 KVA

NOTES: A. EXISTING PANEL "NSF" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "NSM" LOCATED IN ELEC. EQUIPMENT RM. 301, CIRCUIT #1-90/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E14).
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-Ø 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
* 1- 3/4" C. (WIRING FILL >40%).
EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
* 2-3/4" C. (WIRING FILL >40%).
* 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

Pre-Inspection Field Verification 10/28/2014

EXISTING PANEL "SSF" ✓

AMPERES: 175	VOLTS: 120/208	MOUNTING: SURFACE
MAINS: 175AMCB	PHASE: 3	LOCATION: ELEC. EQUIPMENT ROOM 302
RATING: 10K AC	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
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
SPARE	0.0	20	1	21	B	-	22	1	20	0.0	SPACE
SPARE	0.0	20	1	23	-	C	24	1	20	0.0	SPACE
EXISTING VENDOR	0.8	20	1	25	A	-	26	3	50	2.9	EXISTING LOAD CENTER 'KES'
SPARE	0.0	20	1	27	B	-	28	-	-	2.5	
EXISTING VENDOR	0.8	20	1	29	-	C	30	-	-	2.5	
SPARE	0.0	20	1	31	A	-	32	-	-	0.0	SPACE
SPARE	0.0	20	1	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	6.4 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 59.6 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	9.3 KVA
PHASE B	7.3 KVA
PHASE C	7.3 KVA

NOTES: A. EXISTING PANEL "SSF" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "SSM" LOCATED IN ELEC. EQUIPMENT RM. 302, CIRCUIT #1-90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E14).
B. EXISTING WIRING FED FROM TOP OF PANEL BY:
* 1-3/4" C. (WIRING FILL >20%).
* 1-3/4" EMPTY CONDUIT.
EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
* 2-Ø 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
* 2-3/4" C. (WIRING FILL >30%).
EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
* 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
* 1-1" C. (WIRING FILL >40%).

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED	DATE	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
C. MBD	08-14				
DATE					
DRAWN	08-14				
DATE					
CHECKED	08-14				
DATE					
APPROVED					
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

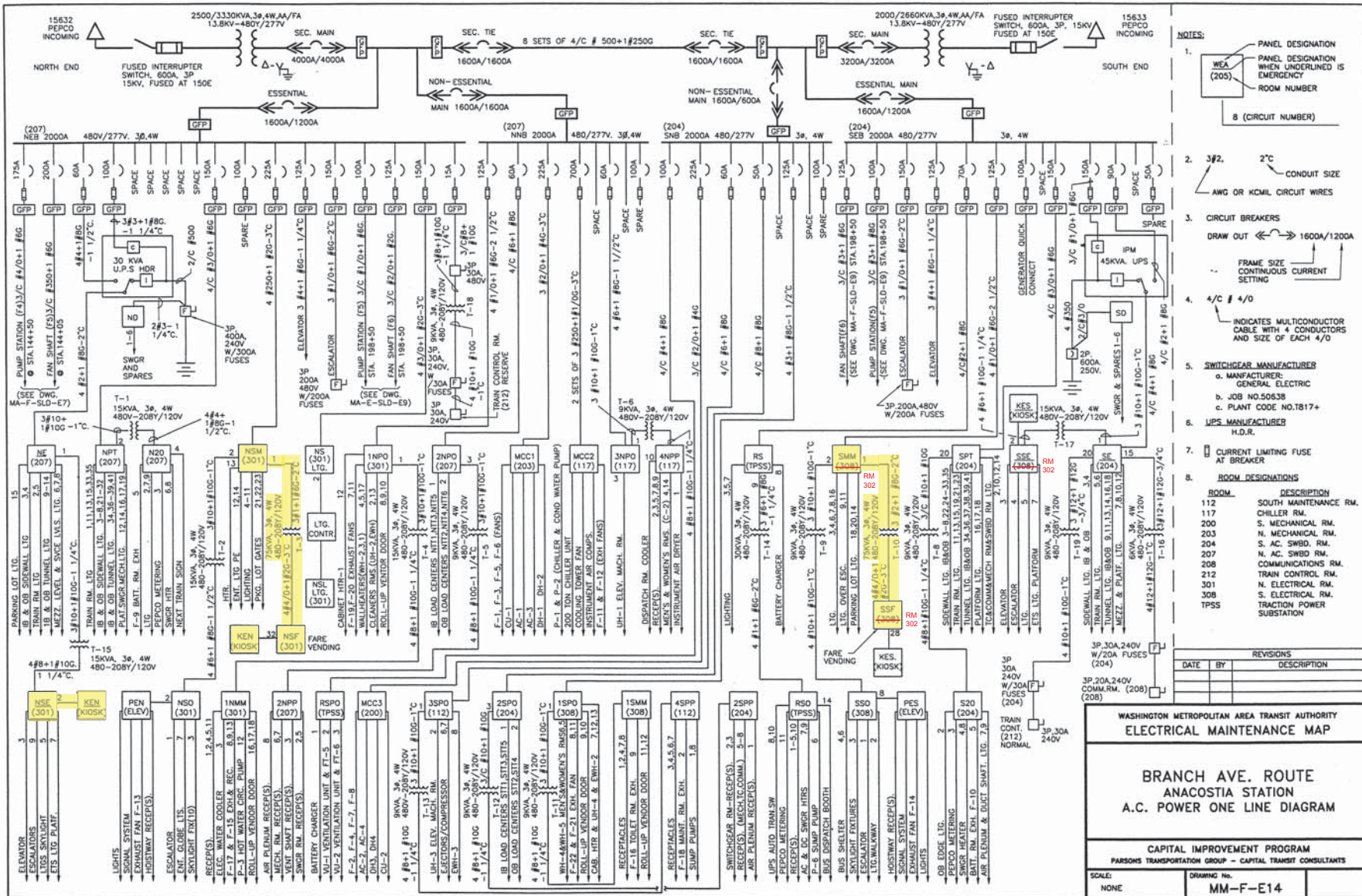
NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRO RAIL STATIONS ANACOSTIA - NORTH & SOUTH PANEL SCHEDULES

SCALE: NOT TO SCALE


DRAWING NO. F06-E-102

Pre-Inspection Field Verification 10/28/2014

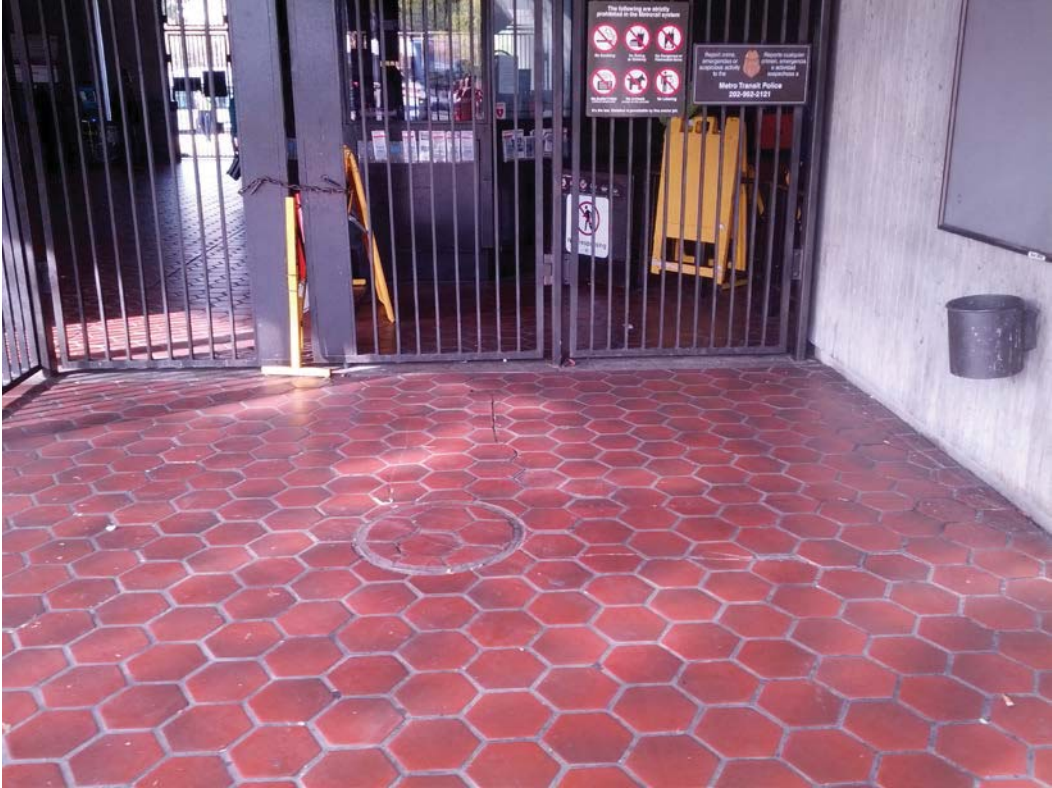
D:\ELECT\NewMap\Map\F-Route\MM-F-E14.dwg Tue Jun 06 14:46:09 2000 LP



Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/28/2014	Station Name: Anacostia (South) - F06	Mezzanine #: 106	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: SSM Source Breaker Name/Number: Breaker #1 Electrical AFC Panel Name/Number: SSF	Rm 302 Rm 302 Rm 302	
<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? 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: SSE Emergency Source Breaker Name/Number: Breaker #2 Panel Name/Number: KES (Kiosk Panel)	Rm 302 Rm 302 Kiosk	Panel KE located in Kiosk, Breaker #4 will de-energize emergency power to faregates.
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	10/28/2014			

Pictures 1&2: F06 Anacostia (South) – Manhole near eastern entrance gate



Picture 3: F06 Anacostia (South) – No handholes in mezzanine



Picture 4: F06 Anacostia (South) – AFC Panel SSF in room 302



Picture 5: F06 Anacostia (South) – AFC Panel SSF in room 302



Picture 6: F06 Anacostia (South) – AFC Panel SSF in room 302, bottom ducts



Picture 7 F06 Anacostia (South) – AFC Panel SSF in room 302, panel schedule

PANEL SCHEDULE
 PANEL NO. 706 ESSENTIAL
 PANEL AUTOMATIC PANEL COLLECTION
 DATE 1/24/88 10:45 AM

LOCATION: ROOM 302-2ND FLOOR
 DRAWING NO. 10-310-1-18-A

DESCRIPTION	AMP	SE	CA	CIRCUIT BREAK	CIRCUIT NO.	CIRCUIT BREAK	CIRCUIT NO.	DATE	DESCRIPTION
SPARE	100	1.0		10000	1				SPARE
1.0 KW	100	1.0		10000	2				1.0 KW
1.0 KW	100	1.0		10000	3				1.0 KW
1.0 KW	100	1.0		10000	4				1.0 KW
1.0 KW	100	1.0		10000	5				1.0 KW
1.0 KW	100	1.0		10000	6				1.0 KW
1.0 KW	100	1.0		10000	7				1.0 KW
1.0 KW	100	1.0		10000	8				1.0 KW
1.0 KW	100	1.0		10000	9				1.0 KW
1.0 KW	100	1.0		10000	10				1.0 KW
1.0 KW	100	1.0		10000	11				1.0 KW
1.0 KW	100	1.0		10000	12				1.0 KW
1.0 KW	100	1.0		10000	13				1.0 KW
1.0 KW	100	1.0		10000	14				1.0 KW
1.0 KW	100	1.0		10000	15				1.0 KW
1.0 KW	100	1.0		10000	16				1.0 KW
1.0 KW	100	1.0		10000	17				1.0 KW
1.0 KW	100	1.0		10000	18				1.0 KW
1.0 KW	100	1.0		10000	19				1.0 KW
1.0 KW	100	1.0		10000	20				1.0 KW
1.0 KW	100	1.0		10000	21				1.0 KW
1.0 KW	100	1.0		10000	22				1.0 KW
1.0 KW	100	1.0		10000	23				1.0 KW
1.0 KW	100	1.0		10000	24				1.0 KW
1.0 KW	100	1.0		10000	25				1.0 KW
1.0 KW	100	1.0		10000	26				1.0 KW
1.0 KW	100	1.0		10000	27				1.0 KW
1.0 KW	100	1.0		10000	28				1.0 KW
1.0 KW	100	1.0		10000	29				1.0 KW
1.0 KW	100	1.0		10000	30				1.0 KW
1.0 KW	100	1.0		10000	31				1.0 KW
1.0 KW	100	1.0		10000	32				1.0 KW
1.0 KW	100	1.0		10000	33				1.0 KW
1.0 KW	100	1.0		10000	34				1.0 KW
1.0 KW	100	1.0		10000	35				1.0 KW
1.0 KW	100	1.0		10000	36				1.0 KW
1.0 KW	100	1.0		10000	37				1.0 KW
1.0 KW	100	1.0		10000	38				1.0 KW

TOTAL LOAD: 18.3 KVA @ 150 AMP
 17.5 KVA @ 145 AMP
 17.2 KVA @ 141 AMP

DATE: 1/24/88
 TIME: 10:45 AM

Picture 8: F06 Anacostia (South) – Panel SSM in room 302



Picture 9: F06 Anacostia (South) – Panel SSM in room 302



Picture 10: F06 Anacostia (South) – Panel SSM in room 302, Panel schedule

SSM PANEL	
1	75KVA (T10) PNL "SSF"
2	9KVA (T9) PNL "SSO"
3	SPARE LTG
4	LIGHTING
5	LTG SPARE
6	LIGHTING
7	LTG = CAN BUS side
8	LIGHTING
9	LTG OVER ESC
10	PARKING LOT LTG
11	LTG OVER ESC
12	PARKING LOT LTG SPARE
13	SPARE
14	PARKING LOT LTG
15	SPARE
16	LTG SVCE RM
17	SPACE
18	SPARE PARKING LOT LTG
19	SPACE
20	SPARE PARKING LOT LTG
21	SPACE
22	SPACE
23	SPACE
24	SPACE
25	
26	
27	
28	
29	
30	
31	
32	
33	
34	
35	
36	
37	
38	
39	

Picture 11: F06 Anacostia (South) – Panel SSE Emergency in room 302



Picture 12: F06 Anacostia (South) – Panel SSE Emergency in room 302



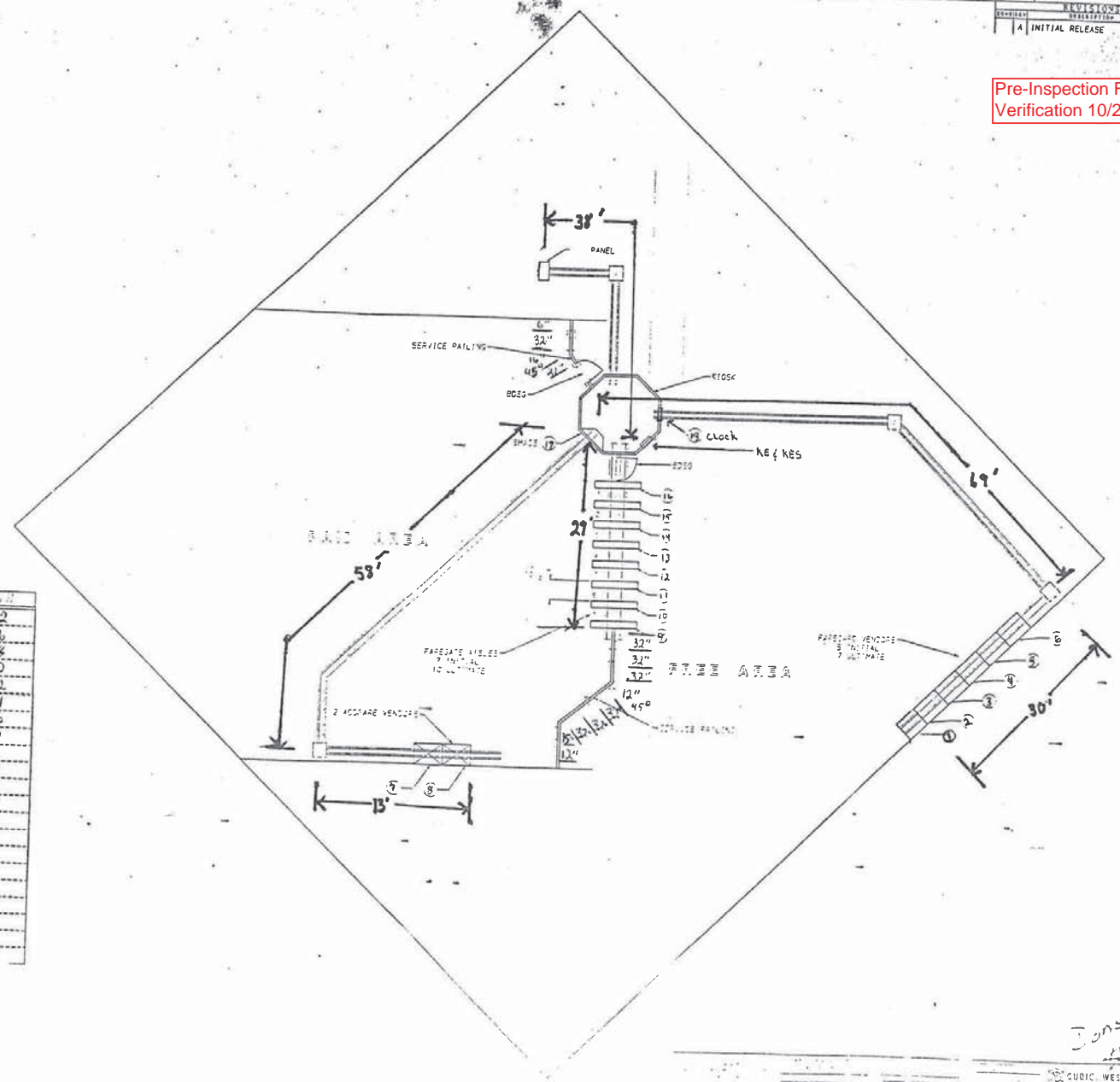
Picture 13: F06 Anacostia (South) – Panel SSE Emergency in room 302, Panel schedule

SSE PANEL	
1	SPARE
2	PNL "KES" KIOSK (NIC)
3	ELEVATOR
4	ESCALATOR
5	INCAND LTG <i>EMERGENCY</i> ✓
6	SPARE
7	ETS LTG PLATFORM ✓
8	SPARE
9	BUSSED SPACE
10	SPARE
11	BUSSED SPACE
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	

REVISIONS	DATE	APPROVED
1	INITIAL RELEASE	

Pre-Inspection Field Verification 10/28/2014

NO.	TYPE	SN	QTY	REV.
1	VENDOR	FV 1835	SSF	2
2	VENDOR	FV 1846	"	6
3	VENDOR	FV 1843	"	8
4	VENDOR	FV 1809	"	10
5	VENDOR	FV 1806	"	12
6	VENDOR	FV 1826	"	14
9	ADDPARE	AF2317	"	16
8	ADDPARE	AF2316	"	18
9	EXIT GATE	RG 7827	"	1
10	SEV. GATE	RG 7826	"	3
12	SEV. GATE	RG 7825	"	5
13	SEV. GATE	RG 7823	"	7
14	SEV. GATE	RG 7821	"	9
15	SEV. GATE	RG 7820	"	11
16	EXIT GATE	EG 5804	"	13
19	CHDS	KE		1
15	CLOCK	KE		8
17	ENTRY P.	KES		6

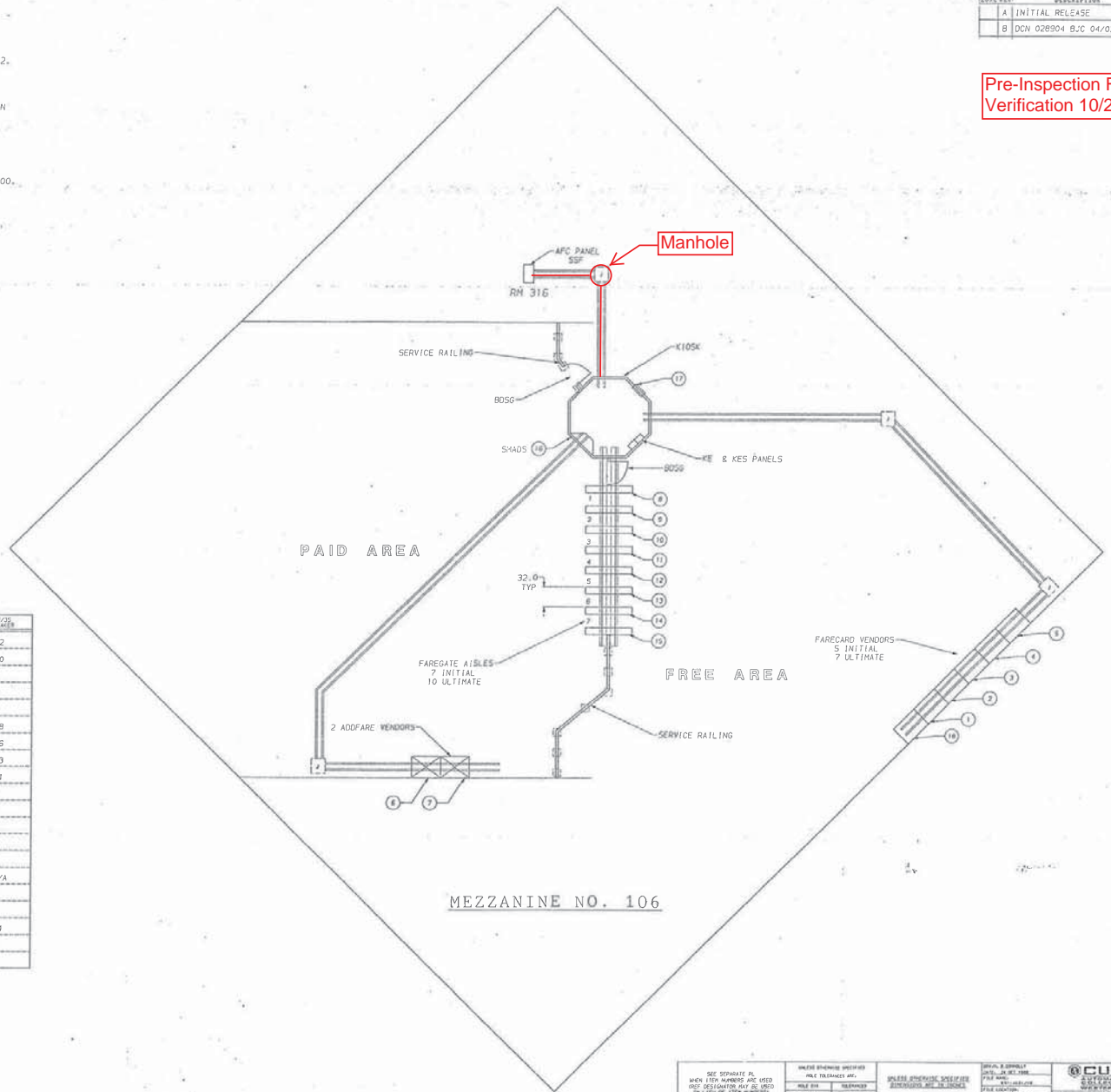


REVISIONS		
NO.	DESCRIPTION	DATE
A	INITIAL RELEASE	01/28/12
B	DCN 028904 B/C 04/03/12	04/03/12

Pre-Inspection Field Verification 10/28/2014

NOTES:

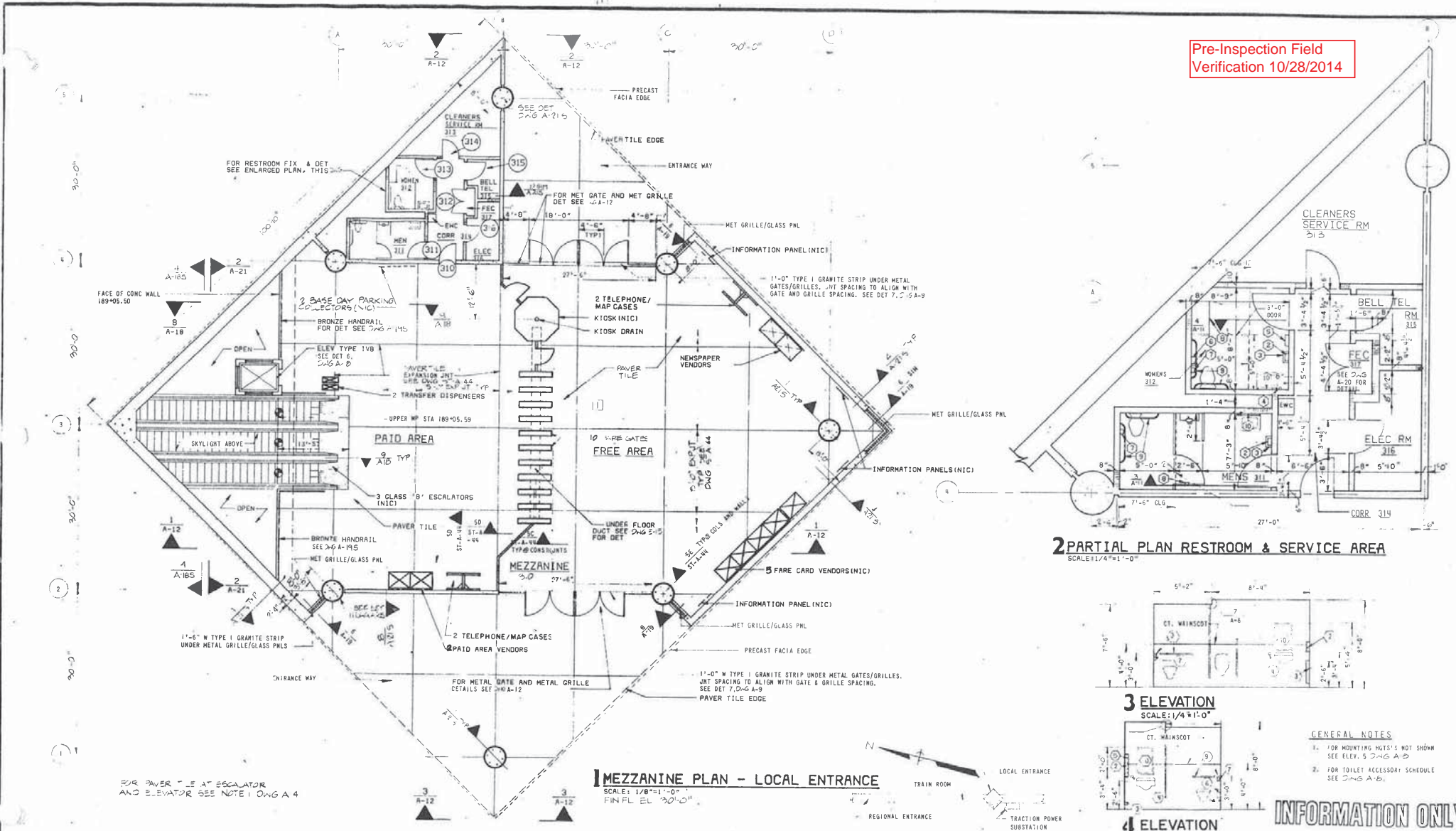
1. FOR VENDOR AND ADDFARE INSTALLATION SEE 931-4002.
2. FOR SHADS INSTALLATION SEE 931-4001.
3. FOR ENTRY, EXIT AND REVERSIBLE GATE INSTALLATION SEE 931-4003.
4. FOR BI-DIRECTIONAL SERVICE GATE INSTALLATION SEE 931-4005.
5. FOR A TYPICAL MEZZANINE INSTALLATION SEE 931-4000.
6. CIRCUIT BREAKERS WITH COMMON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



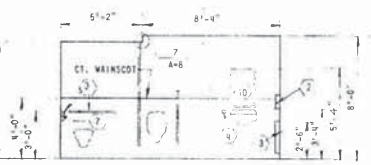
ITEM	NAME	S/N	PANEL AFC	125 REV
1	VENDOR	1806	SSF	12
2	VENDOR	1809	SSF	10
3	VENDOR	1841	SSF	8
4	VENDOR	1846	SSF	6
5	VENDOR	1835	SSF	2
6	ADDFARE	2816	SSF	18
7	ADDFARE	2817	SSF	16
8	ENTRY_GATE	3808	SSF	13
9	REV._GATE	7820	SSF	11
10	REV._GATE	7821	SSF	9
11	REV._GATE	7823	SSF	7
12	REV._GATE	7825	SSF	5
13	REV._GATE	782C	SSF	3
14	REV._GATE	7827	SSF	1
15	EXIT_GATE	4805	SSF	N/A
16	SHADS	8818	KE	1
17	S. CLOCK	98916	KES	1
18	VENDOR	1826	SSF	14
19	EMERGENCY LI		KE	4

SEE SEPARATE PL. WHEN TECH SPECIFICATIONS ARE USED. DESIG DESIGNATOR MAY BE USED IN CASE OF ITEM NUMBER.	UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED.	UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED.	UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED, UNLESS OTHERWISE SPECIFIED.
DATE: 04/03/12	DATE: 04/03/12	DATE: 04/03/12	DATE: 04/03/12
BY: [Signature]	BY: [Signature]	BY: [Signature]	BY: [Signature]
PROJECT: 931-4021	PROJECT: 931-4021	PROJECT: 931-4021	PROJECT: 931-4021
MEZZANINE LAYOUT	MEZZANINE LAYOUT	MEZZANINE LAYOUT	MEZZANINE LAYOUT

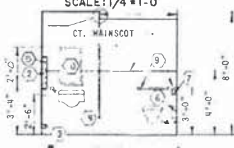
Pre-Inspection Field Verification 10/28/2014



2 PARTIAL PLAN RESTROOM & SERVICE AREA
SCALE: 1/4" = 1'-0"



3 ELEVATION
SCALE: 1/4" = 1'-0"



4 ELEVATION
SCALE: 1/4" = 1'-0"

- GENERAL NOTES**
- FOR MOUNTING HOLES NOT SHOWN SEE ELEV. 5 DWG A-0
 - FOR TOILET ACCESSORY SCHEDULE SEE DWG A-0

INFORMATION ONLY

FOR PAVEMENT AT ESCALATOR AND ELEVATOR SEE NOTE 1 DWG A-4

1 MEZZANINE PLAN - LOCAL ENTRANCE
SCALE: 1/8" = 1'-0"
FIN FL EL. 20'-0"

REVISED	BY	DATE	DESCRIPTION
1	HWA	6/20/14	REVISED
2	AB	6/20/14	REVISED

NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

WMATA
 APPROVED: [Signature]
 AM/PROVED: [Signature]

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

**ANACOSTIA STATION
 SOUTH MEZZ,
 A.F.C. LAYOUT**

EXISTING PANEL "NSF"												
AMPERES: 175		VOLTS: 120/208		MOUNTING: SURFACE								
MAINS: 175AMCB		PHASE: 3		LOCATION: ELEC. EQUIPMENT RM. 301								
RATING: 10K A/C		WIRE: 4		SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	NO.	POLE	AMP	KVA	LOAD DESCRIPTION	KVA	LOAD DESCRIPTION	
EXISTING VENDOR	0.8	20	1	1	A	-	2	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)	
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	1	20	0.8	SPARE (KIOSK)
EXISTING VENDOR	0.8	20	1	5	-	C	-	6	1	20	0.0	SPARE
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	0.0	SPARE	
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	0.0	SPARE	
SPARE	0.0	20	1	21	-	B	-	22	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	23	-	C	-	24	-	-	0.0	SPACE
EXISTING VENDOR	0.8	20	1	25	A	-	26	-	-	0.0	SPACE	
EXISTING VENDOR	0.8	20	1	27	-	B	-	28	1	20	0.8	EXISTING VENDOR
SPARE	0.0	20	1	29	-	C	-	30	1	20	0.0	SPARE
SPARE	0.0	20	1	31	A	-	32	3	50	2.9	EXIST. LOAD CENTER 'KES'	
EXISTING VENDOR	0.8	20	1	33	-	B	-	34	-	-	2.5	
EXISTING VENDOR	0.8	20	1	35	-	C	-	36	-	-	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	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	8.5 KVA
PHASE B	9.7 KVA
PHASE C	7.3 KVA

NOTES: A. EXISTING PANEL "NSF" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "NSM" LOCATED IN ELEC. EQUIPMENT RM. 301, CIRCUIT #1-30/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E14).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:

- 2-1/2" C. (WIRING FILL >40%).
- 2- 8 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
- 1- 3/4" C. (WIRING FILL >40%).

EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:

- 2-3/4" C. (WIRING FILL >40%).
- 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

Breaker #1

Pre-Inspection Field Verification 10/28/2014

EXISTING PANEL "SSF" ✓												
AMPERES: 175		VOLTS: 120/208		MOUNTING: SURFACE								
MAINS: 175AMCB		PHASE: 3		LOCATION: ELEC. EQUIPMENT ROOM 302 ✓								
RATING: 10K A/C		WIRE: 4		SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	NO.	POLE	AMP	KVA	LOAD DESCRIPTION	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
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	
SPARE	0.0	20	1	21	-	B	-	22	1	20	0.0	SPARE
SPARE	0.0	20	1	23	-	C	-	24	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	25	A	-	26	3	50	2.9	EXISTING LOAD CENTER 'KES'	
SPARE	0.0	20	1	27	-	B	-	28	-	-	2.5	
EXISTING VENDOR	0.8	20	1	29	-	C	-	30	-	-	2.5	
SPARE	0.0	20	1	31	A	-	32	-	-	0.0	SPACE	
SPARE	0.0	20	1	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	6.4 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 59.6 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	9.3 KVA
PHASE B	7.3 KVA
PHASE C	7.3 KVA

NOTES: A. EXISTING PANEL "SSF" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "SSM" LOCATED IN ELEC. EQUIPMENT RM. 302, CIRCUIT #1-90A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MM-F-E14).

B. EXISTING WIRING FED FROM TOP OF PANEL BY:

- 1-3/4" C. (WIRING FILL >20%).
- 1-3/4" EMPTY CONDUIT.
- EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2-8 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
- 2-3/4" C. (WIRING FILL >30%).

EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:

- 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
- 1-1" C. (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

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

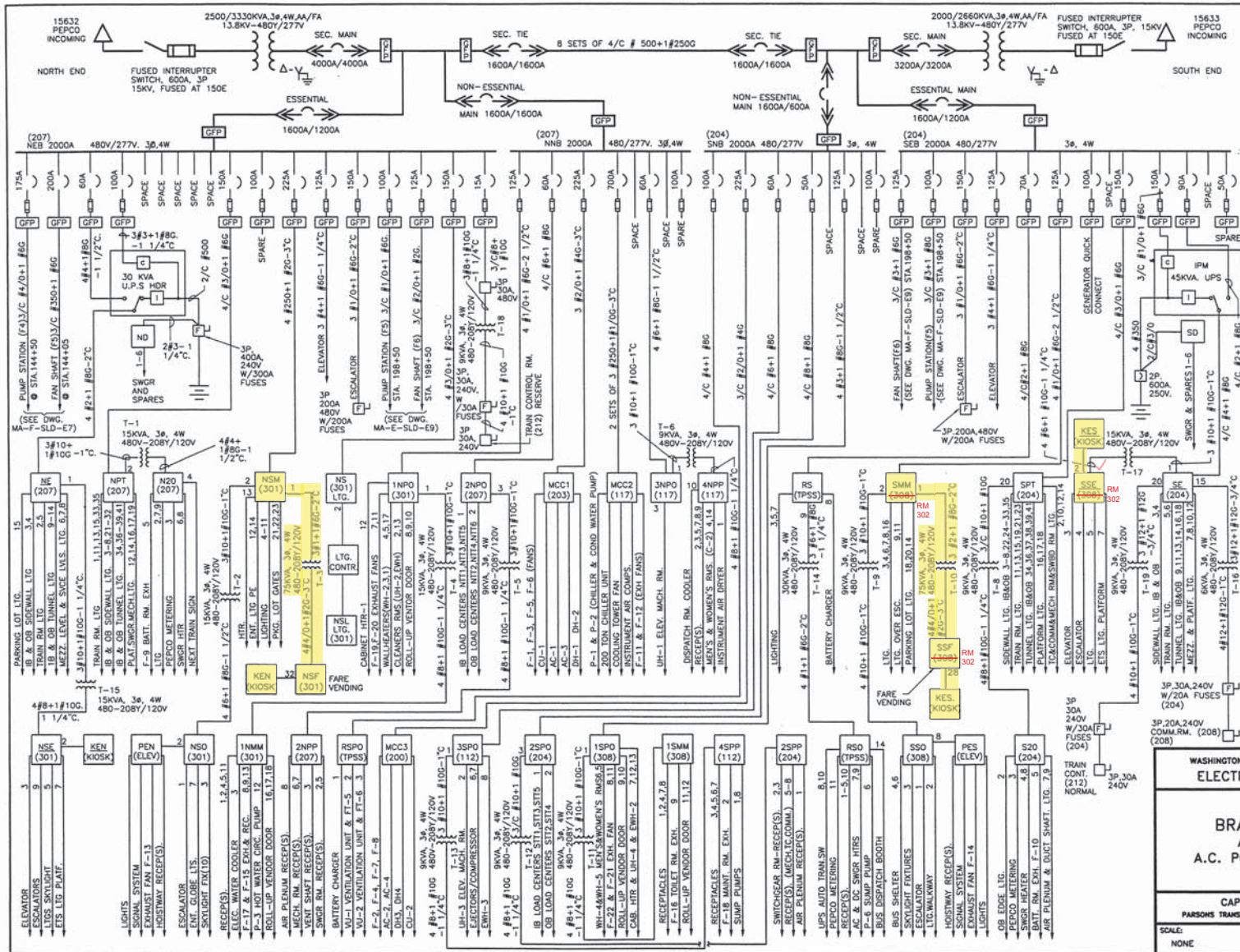
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

GFP A Gannett Fleming/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

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

SCALE: NOT TO SCALE DRAWING NO. F06-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
3. CIRCUIT BREAKERS
 DRAW OUT \leftarrow 1600A/1200A
 FRAME SIZE CONTIGUOUS CURRENT SETTING
4. 4/C # 4/0
 INDICATES MULTICONDUCTOR CABLE WITH 4 CONDUCTORS AND SIZE OF EACH 4/0
5. SWITCHGEAR MANUFACTURER
 a. MANUFACTURER: GENERAL ELECTRIC
 b. JOB NO. 50638
 c. PLANT CODE NO. 1817+
6. UPS MANUFACTURER
 H.D.R.
7. CURRENT LIMITING FUSE AT BREAKER
8. ROOM DESIGNATIONS

ROOM	DESCRIPTION
112	SOUTH MAINTENANCE RM.
117	CHILLER RM.
200	S. MECHANICAL RM.
203	N. MECHANICAL RM.
204	S. AC. SWBD. RM.
207	N. AC. SWBD. RM.
208	COMMUNICATIONS RM.
212	TRAIN CONTROL RM.
301	N. ELECTRICAL RM.
308	S. ELECTRICAL RM.
TPSS	TRACTION POWER SUBSTATION

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP


**BRANCH AVE. ROUTE
 ANACOSTIA STATION
 A.C. POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE
 DRAWING NO. MM-F-E14

Pre-Inspection Field Verification 10/28/2014

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/02/2014	Station Name: Congress Heights - F07	Mezzanine #: 086	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: MESS A Source Breaker Name/Number: Breaker #2,4,6 Electrical AFC Panel Name/Number: MESS B	Rm C216 Rm C216 Rm C216	
<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: AFC		Handhole located under fare vending machine VN1454.
<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 one level. Must be able to access handhole under fare vending machine mentioned above.
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: Source Breaker Name/Number: Panel Name/Number:		N/A - Emergency receptacles in faregates not energized and verified by AFC escort and WMATA inspector.
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	10/02/2014			

Picture 1: F07 Congress Heights – Handholes believed to be under fare vending machines in Mezzanine



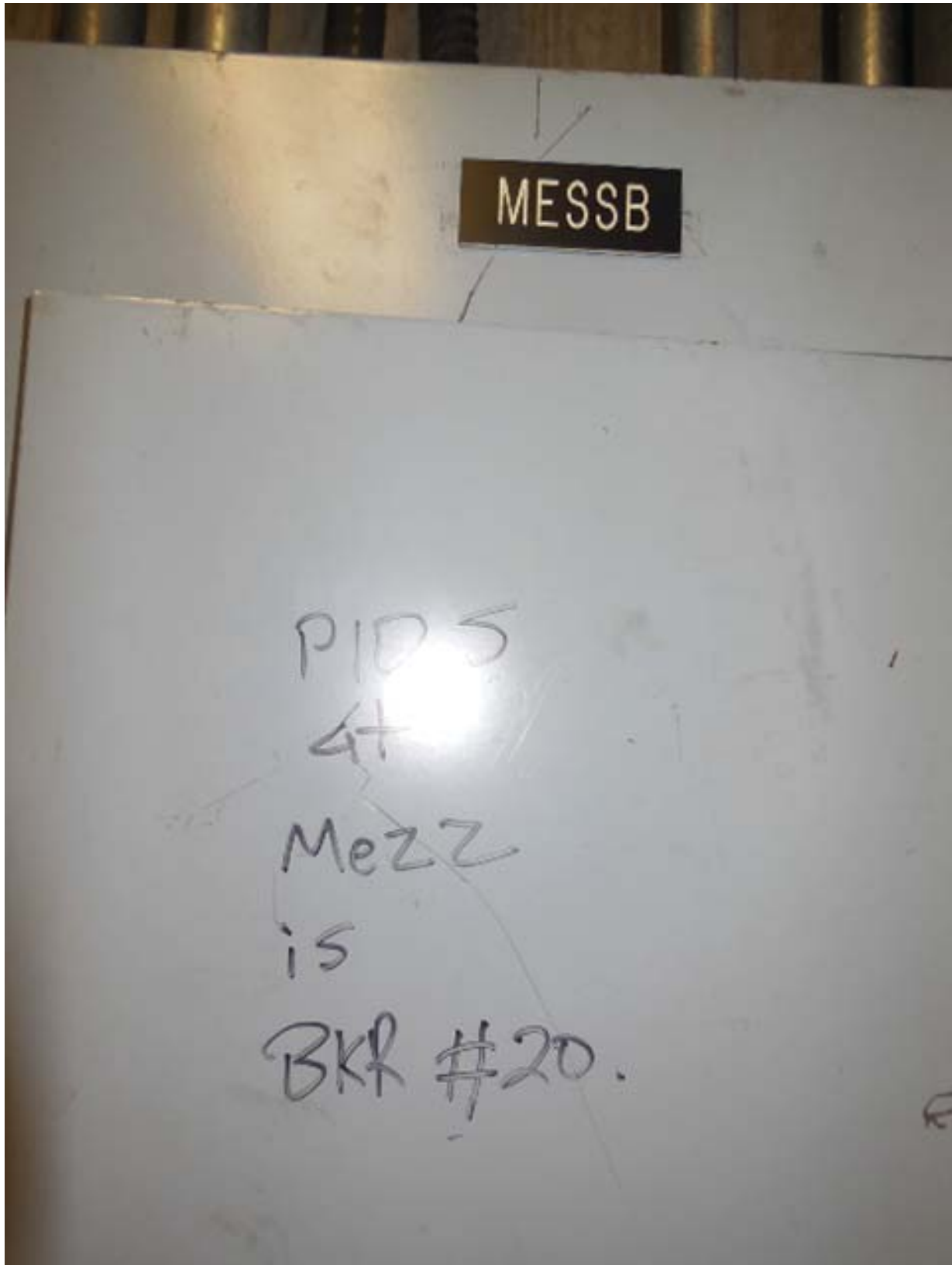
Picture 2: F07 Congress Heights – Handholes believed to be under fare vending machines in Mezzanine



Picture 3: F07 Congress Heights – Handholes near door to Rm C216 from Mezzanine



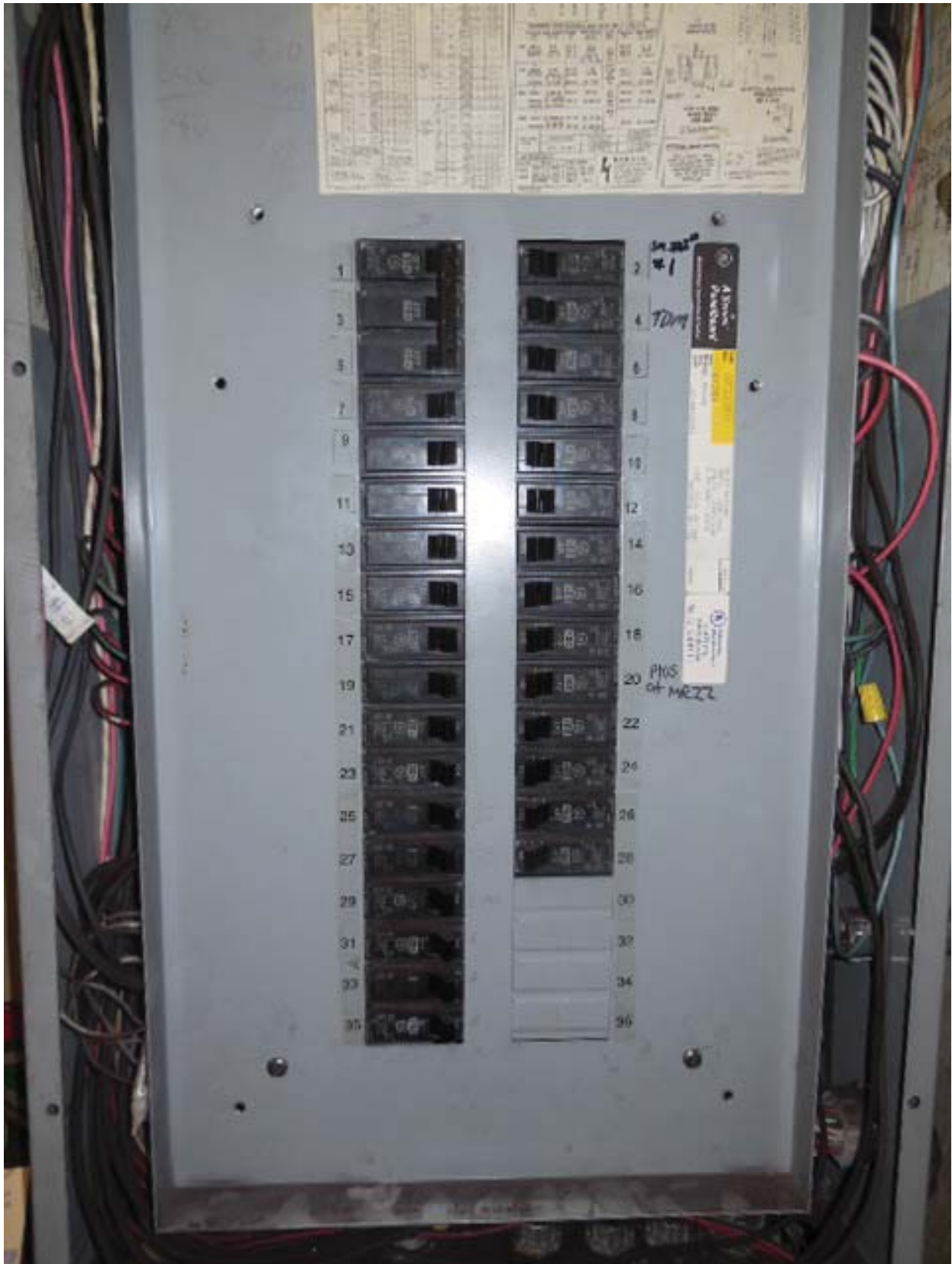
Picture 4: F07 Congress Heights –AFC Panel MESSB in Room C216



Picture 5: F07 Congress Heights – AFC Panel MESSB in Room C216



Picture 6: F07 Congress Heights – AFC Panel MESSB in Room C216



Picture 7: F07 Congress Heights – AFC Panel MESSB schedule in Room C216

CIRCUIT DIRECTORY			
PANELBOARD "MESSB": 120/208 V AC, 3-PH, 4-W			
1	Kiosk Panel KE 5A ✓	2	Bus T 5A ✓
3	" " " ✓	4	" " " ✓
5	" " " ✓	6	" " " ✓
7	spare	8	VN-1459 ✓ 33
9	spare	10	"VN-1305" ✓ 32
11	Fare gate 20N ✓	12	"VN-1098" ✓ 31
13	" " 20X ✓	14	ADD FARE AM 2141 ✓ 51
15	" " 19X ✓	16	"AM 2126" ✓ 50
17	" " 18X ✓	18	Vending AM 2141 ✓ 30
19	" " 10X ✓	20	PIDS - MEZZ SIGN ✓
21	" " 11X ✓	22	MEZZ Level Receipt
23	" " 11N ✓	24	Mezz Level Receipt ✓
25	spare	26	
27	spare	28	
29	MEZZ LEVEL RECEIPT ✓	30	
31	MEZZ LEVEL RECEIPT ✓	32	
33	MEZZ LEVEL RECEIPT ✓	34	
35	MEZZ LEVEL RECEIPT ✓	36	
37		38	
39		40	
41		42	

Y
684

Picture 8: F07 Congress Heights – Source Panel MESSA in Room C216



Picture 9: F07 Congress Heights – Source Panel MESSA circuits 2,4,6 in Room C216



Picture 10: F07 Congress Heights – Source Panel MESSA schedule in Room C216

CIRCUIT DIRECTORY		
PANELBOARD "MESSA": 120/208 V AC, 3-PH, 4-W		
		2
3	SOUTH ESCALATORS ESSENTIAL POWER ✓	4
5		6
7		8
9	MEZZ. ESCALATOR LIGHTS / RECEPTACLE ✓	10
11		12
13	HANDRAIL LIGHTING ✓ STAIR A	14
15	HANDRAIL LIGHTING ✓ STAIR B	16
17		18
19		20
21		22
23		24
25		26
27		28
		30
		32
		34

Pre-Inspection Field
Verification 10/2/2014

EXISTING PANEL "MESSB"									
WIRING: 10K-2	VOLTS: 120/208	CONTINUIS SURFACE							
PHASE: 3	LOCATION: ELEC. EQUIPMENT RM C218	Rm C218							
WIRE: 4	SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	AMP	CT. NO.	CT. NO.	CT. NO.	CT. NO.	CT. NO.	CT. NO.	LOAD DESCRIPTION
EXISTING CENTER MESSB	2.8	13	3	1	A	2	1	20	EXISTING VENDOR
	2.8			3	B	4	1	20	NEW KIOSK RECEPT. (IT & NEPP)
	2.8			5	C	5	1	20	SPARE (KIOSK)
EXISTING VENDOR	3.6	23	1	7	A	8	1	20	EXISTING VENDOR
RF-DE	0.8	20	1	9	B	10	1	20	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	C	12	1	20	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	13	C	14	1	20	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	15	B	16	1	20	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	17	C	18	1	20	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	19	A	20	1	20	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	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	C	26	1	20	SPARE
EXISTING VENDOR	0.8	20	1	27	B	28	1	20	SPARE
EXISTING VENDOR	0.8	20	1	29	C	30	-	-	SPACE
EXISTING VENDOR	0.8	20	1	31	-	32	-	-	SPACE
EXISTING VENDOR	0.8	20	1	33	B	34	-	-	SPACE
EXISTING VENDOR	0.8	20	1	35	C	36	-	-	SPACE

NOTES: 1. CONNECT NEW FEEDER TO EXISTING SPARE 10A, 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	11.2 x 50%	5.6 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	28.7 KVA	TOTAL DEMAND KVA 23.8 KVA
		TOTAL DEMAND AMPS 66.3 AMPS
CONNECTED LOAD PHASE SUMMARY		
PHASE A:	10.1 KVA	
PHASE B:	9.7 KVA	
PHASE C:	8.9 KVA	

NOTES: A. EXISTING PANEL "MESSB" IS FED FROM 120/208V, 3Ø, 4W EXISTING 800A SWBD. "MESSA" LOCATED IN ELEC. EQUIPMENT C218, Breaker #2, 4, 6-200/3P (SEE ATTACHED DWG. MA-0F-SLD-ES).

- B. ALL EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
- 2-3/4" C. (WIRING FILL >40%).
 - 4-1/2" C. (3-WIRING FILL >40% & 1-EMPTY).
- ALL EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
- 1-3/4" C. (WIRING FILL >40%).
 - 1-1" C. (WIRING FILL >40%).
- ALL EXISTING WIRING FED FROM TOP OF PANEL BY:
- 1-4" C. TO TRANSFORMER (WIRING FILL >40%).
 - 2-3/4" C. (1-WIRING FILL >40% & 1-EMPTY).
 - 1-1/2" EMPTY CONDUIT.
 - 2-#12 WIRING.

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED: S.MD	DATE: 08-11	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
DRAWN: S.MD	DATE: 08-11				
CHECKED: S.MD	DATE: 08-11				
APPROVED: S.MD	DATE:				

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

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

APPROVED _____

SUBMITTED _____
PROJECT MANAGER

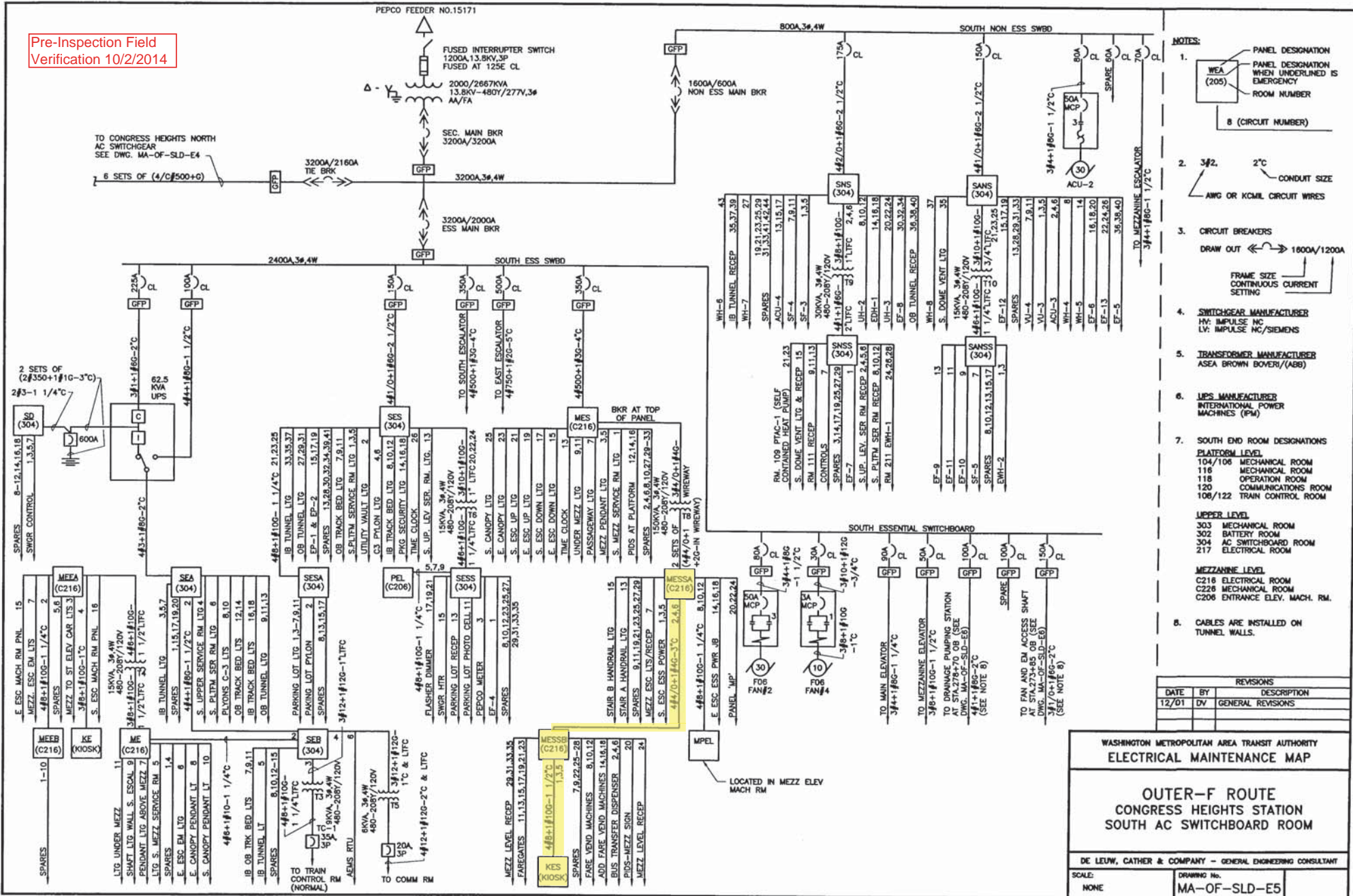
NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS CONGRESS HEIGHTS PANEL SCHEDULE

SCALE: NOT TO SCALE


DRAWING NO: F07-E-102

Pre-Inspection Field Verification 10/2/2014

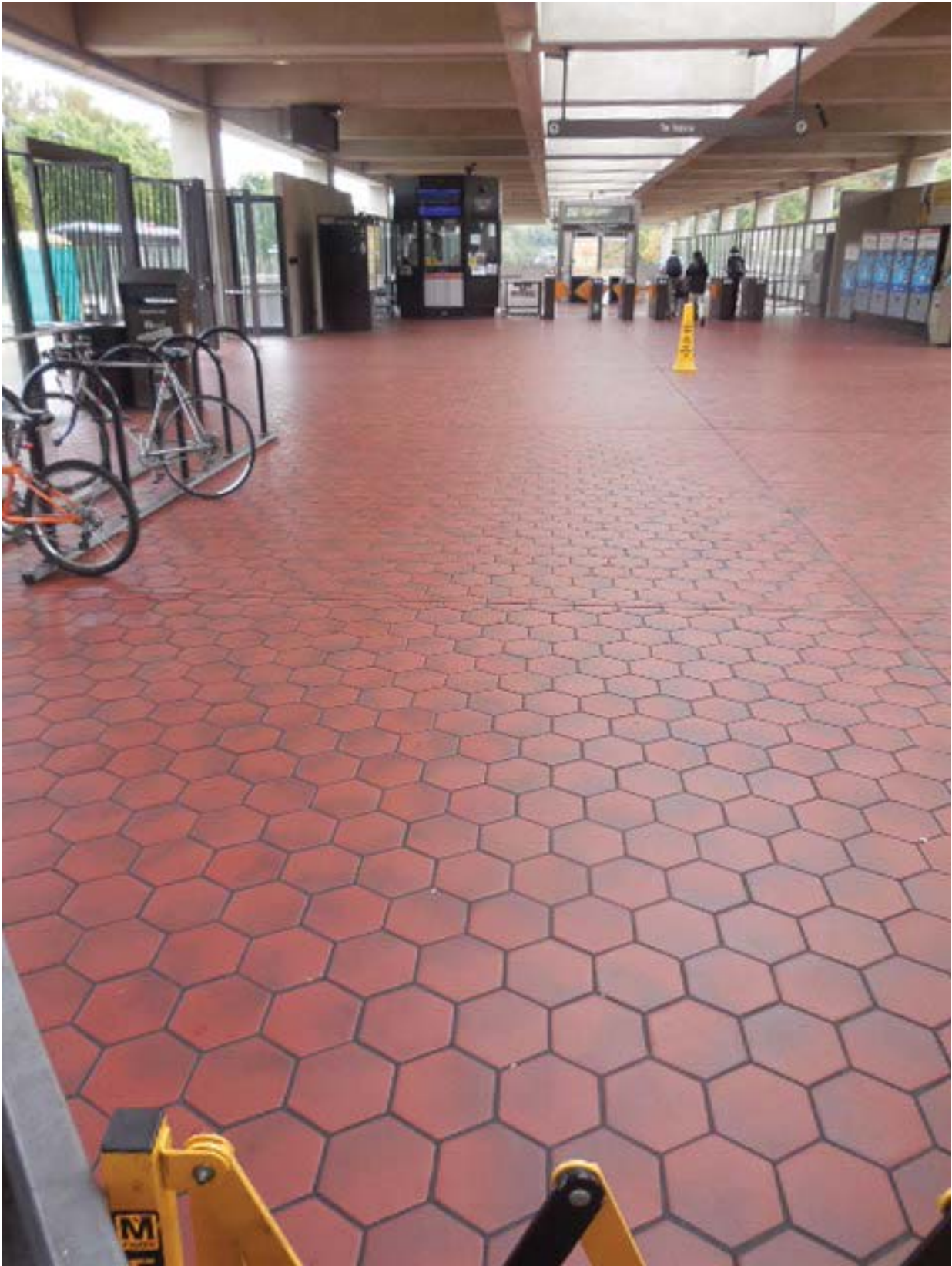
C:\PTG-Systems\MAINT\MP01\WA-OF-SLD-E05.dwg, 12/31/01 01:49:39 PM, I02P2SVR041560-8150-7FLR-4, DM



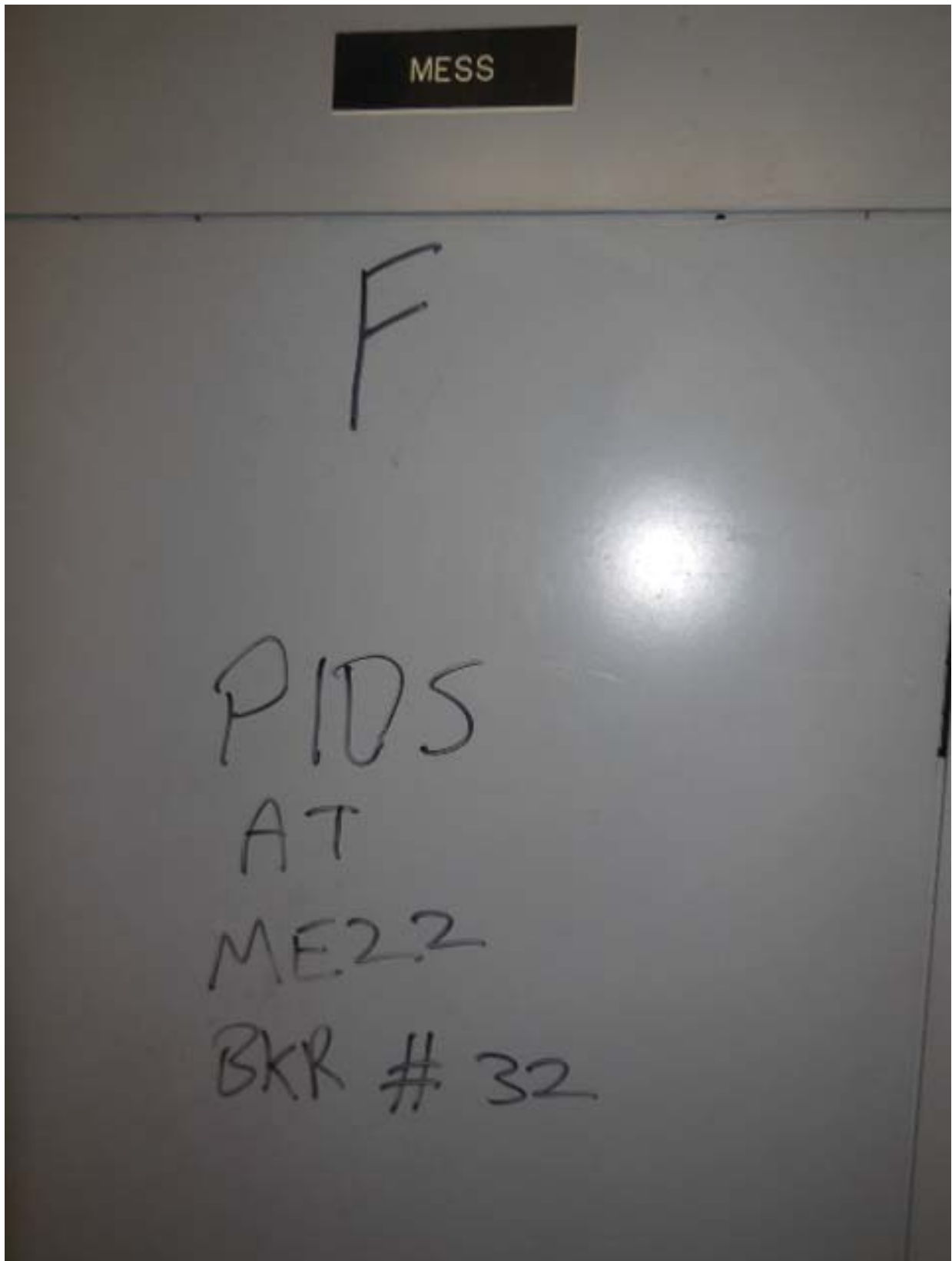
Pre-Inspection Mezzanine Walkthrough Checklist

Date: 10/02/2014	Station Name: Southern Ave - F08	Mezzanine #: 107	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: Generator Subpanel 2 Source Breaker Name/Number: Breaker #2,4,6 Electrical AFC Panel Name/Number: MESS	Rm 223 Rm 223 Rm C205	
<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.		
<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"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		Straight shot from AFC Panel through walker duct to Kiosk.
<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 conduits/ducts are on the same 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: KE Source Breaker Name/Number: Breaker #9 Panel Name/Number: Emergency Power Faregates	Kiosk Kiosk	
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	10/02/2014			

Picture 1: F08 Southern Ave – No handholes from Kiosk to AFC Panel via Mezzanine



Picture 2: F08 Southern Ave – Panel MESS in Room C205



Picture 3: F08 Southern Ave - Panel MESS in Room C205



Picture 4: F08 Southern Ave – Bottom ducts of Panel MESS in Room C205



Picture 5: F08 Southern Ave - Panel MESS schedule in Room C205

CIRCUIT DIRECTORY		PANELBOARD "MESS": 120/208 V AC, 3-PH, 4-W	
1	K.E.S	2	FAREGATE CONSOLE
3	KIOSK PANEL ✓	4	FAREGATE CONSOLE
5		6	FAREGATE CONSOLE
7	FAREGATE CONSOLE #20 ✓	8	FARECARD VENDING MACH. #30 VN-1454
9	FAREGATE CONSOLE 21 ✓	10	FARECARD VENDING MACH. #31 VN-1947
11	FAREGATE CONSOLE 22 ✓	12	FARECARD VENDING MACH. #32 VN-1900
13	FAREGATE CONSOLE #23 ✓	14	FARECARD VENDING MACH. #33 VN-1905
15	ADFARE VENDING 4M-2115 50 ✓	16	MAP LIGHT spare
17	ADFARE VENDING 4M-2113 51 ✓	18	MAP LIGHT spare
19	BUS TRANSFER DISP. spare	20	PLATFORM ESCALATOR AUXILIARY FEED ✓
21	BUS TRANSFER DISP. spare	22	PLATFORM ESCALATOR AUXILIARY FEED ✓
23	SPARE FARE Gate 19 ✓	24	PLATFORM ESCALATOR AUXILIARY FEED ✓
25	SPARE FARE Vending #34 ✓	26	ENTRANCE ESCALATOR AUXILIARY FEED ✓
27	SPARE FARE Gate #38 ✓	28	ENTRANCE ESCALATOR AUXILIARY FEED ✓
29	SPARE	30	ENTRANCE ESCALATOR AUXILIARY FEED ✓
31	SPARE	32	SPARE PIDS 17-22 SIGN
33	SPARE FARE Gate #18 ✓	34	SPARE
35	SPARE	36	SPARE
37	SPARE	38	spare
39	SPARE	40	PANEL MESS spare
41	SPARE	42	spare

Picture 6: F08 Southern Ave – Generator Sub-panel 2 Circuits 2,4,6 in Room 223



Pre-Inspection Field
Verification 10/2/2014

EXISTING PANEL "MESS" ✓											
AMPERES: 250			VOLTS: 120/208			MOUNTING: SURFACE					
MAINS: 250AMCB			PHASE: 3			LOCATION: ELEC. ROOM C205 ✓					
RATING: 10KAIC			WIRE: 4			SECTION: 1 OF 1					
LOAD DESCRIPTION	KVA	AMP	POLE	CKT. BKRS			CKT. BKRS			LOAD DESCRIPTION	
				NO.	NO.	POLE	AMP	KVA			
EXIST. LOAD CENTER "KES"	2.9	30	3	1	A -	2	3	30	0.0	SPARE	
	2.5	-	-	3	- B -	4	-	-	0.0		
	2.5	-	-	5	- C	6	-	-	0.0		
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	SPARE	
SPARE	0.0	20	1	19	A -	20	3	30	1.0	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	21	- B -	22	-	-	1.0		
EXISTING VENDOR	0.8	20	1	23	- C	24	-	-	1.0		
EXISTING VENDOR	0.8	20	1	25	A -	26	3	30	1.0	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	27	- B -	28	-	-	1.0		
EXISTING VENDOR	0.8	20	1	29	- C	30	-	-	1.0		
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	0.0	SPARE	
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	35	- C	36	1	20	0.0	SPARE	
SPARE (KIOSK)	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	

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	13.2 x 50%	6.6 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	30.7 KVA	TOTAL DEMAND KVA 24.9 KVA
		TOTAL DEMAND AMPS 69.0 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A: 10.5 KVA
PHASE B: 10.1 KVA
PHASE C: 10.1 KVA

Generator

NOTES: A. EXISTING PANEL "MESS" IS FED FROM 277/480V, 3Ø, 4W EXISTING "GENERAL SUBPANEL 2" LOCATED IN AC SWBD ROOM
✓ #223, CIRCUIT #2, 4, 6-100/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. MA-OF-SLD-E7).
B. ALL EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
• 2-6" x 1 1/2" FLOOR DUCTS (WIRING FILL >40%).
• 1-1/2" C. (WIRING FILL >40%).
ALL EXISTING WIRING FED FROM TOP OF PANEL BY:
• 1-1" C. (WIRING FILL >40%).
• 1-1/2" C. (WIRING FILL >40%).
• 1- #12 WIRING.

ALL EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
• 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED: C. HED	DATE: 08-14	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	BY
DRAWN: C. HED	DATE: 08-14				
CHECKED: B. DAL	DATE: 08-14				
APPROVED: JVA	DATE:				

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

APPROVED _____

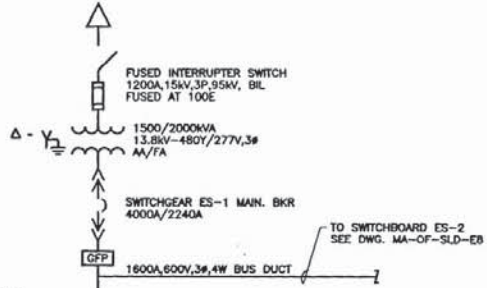
GFP A Gannett Fleming/Parsons JOINT VENTURE
SUBMITTED _____
PROJECT MANAGER

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

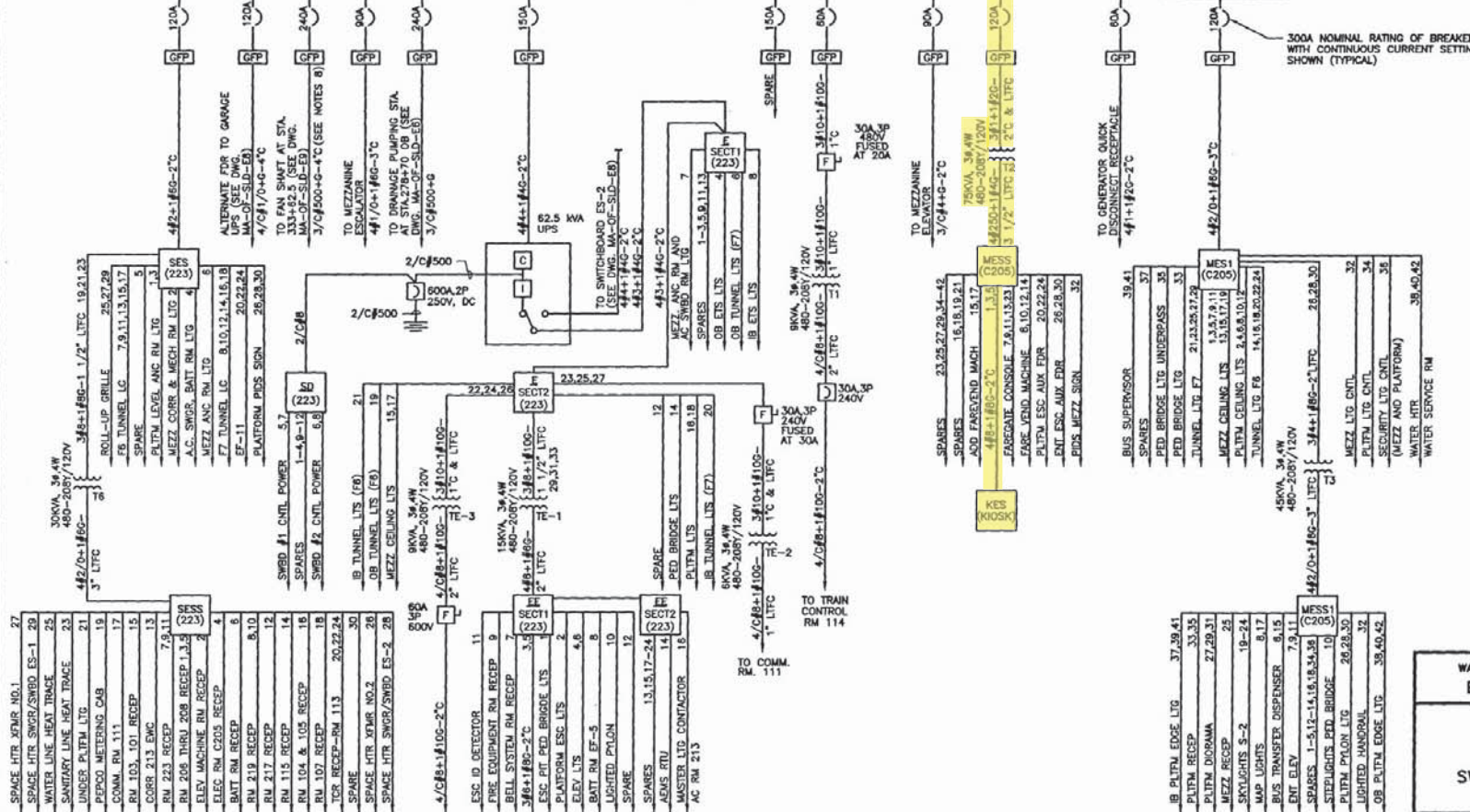
SCALE: NOT TO SCALE
DRAWING NO.: F08-E-102

Pre-Inspection Field Verification 10/2/2014

PEPCO FEEDER NO. 15171



SWITCHBOARD ES-1 4000A, 480V/277V, 3ø, 4W

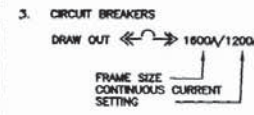
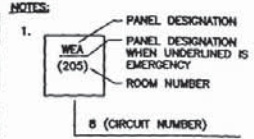


SPACE HTR XTRM NO.1	27
SPACE HTR SWGR/SWBD ES-1	28
WATER LINE HEAT TRACE	25
SANITARY LINE HEAT TRACE	21
UNDER PLTM LIT	23
PEPCO METERING CAB	19
COMM. RM 111	17
COOR. 213 ENC	15
RM 223 RECP	13
RM 205 THRU 208 RECP	13.5
ELEV MACHINE RM RECP	2
ELEC RM C205 RECP	4
RM 219 RECP	8.10
RM 217 RECP	12
RM 115 RECP	14
RM 104 & 105 RECP	18
RM 107 RECP	18
TOR RECP--RM 113	20,22,24
SPACE HTR XTRM NO.2	28
SPACE HTR SWGR/SWBD ES-2	28

TO TRAIN CONTROL RM 111

ESC ID DETECTOR	11
FIRE EQUIPMENT RM RECP	9
BELL SYSTEM RM RECP	7
ESC. FIT PED. BRIDGE LIT	3.8
PLATFORM ESC LIT	2
ELEV LIT	4.6
BATT RM EF-5	8
LIGHTED PHON	10
SPARE	12
MEAS. RTU	13,15,17-24
MASTER LIT CONTACTOR	16
AC RM 215	20

IB PLTM EDGE LIT	37,39,41
PLTM RECP	33,35
PLTM DOORAMA	27,29,31
MEZZ RECP	25
SKYLIGHTS S-2	19-24
MAP LIGHTS	6,17
BUS TRANSFER DISPENSER	6,15
ENT ELEV	7,9,11
SPARES	1-5,12-14,15,18,34,36
STRAIGHTS PED. BRIDGE	18
PLTM PLCON LIT	26,28,30
LIGHTED HANDRAIL	32
OB PLTM EDGE LIT	38,40,42



4. SWITCHGEAR MANUFACTURER: HV: IMPULSE NC; LV: IMPULSE NC/SIEMENS

5. TRANSFORMER MANUFACTURER: ASEA BROWN BOVERI (ABB.)

6. UPS MANUFACTURER: INTERNATIONAL POWER MACHINES (IPM)

7. STATION ROOM DESIGNATIONS:
PLATFORM LEVEL
 115 MECHANICAL ROOM
 113 TRAIN CONTROL ROOM
 111 COMMUNICATIONS ROOM
 109 OPERATIONS ROOM
MEZZANINE LEVEL
 219 MECHANICAL ROOM
 221 BATTERY ROOM
 223 AC SWITCHBOARD ROOM
 C205 ELECTRICAL ROOM

8. CABLES ARE INSTALLED ON TUNNEL WALLS.

REVISIONS		
DATE	BY	DESCRIPTION
12/01	DV	GENERAL REVISIONS

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**OUTER-F ROUTE
 SOUTHERN AVENUE STATION
 SWITCHGEAR/SWITCHBOARD ES-1**

DE LEUW, CATHAR & COMPANY - GENERAL ENGINEERING CONSULTANT

SCALE: NONE DRAWING No. MA-OF-SLD-E7