



ELECTRICAL AND DATA CABLE INSTALLATION

for

Washington Metropolitan Area Transit Authority

Contract Number FQ17021

VOLUME 4

**Pre-Inspection Reports
Part 2a
Orange and Blue Lines**

November 13, 2016

Final Submission


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

**VOLUME 4
PRE-INSPECTION REPORTS
PART 2A
ORANGE & BLUE LINES
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Pre-Inspection Mezzanine Walkthrough Checklist

Date: 12/11/2014		Station Name: McPherson Sq (East) - C02		Mezzanine #: 036		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: NEPOA Source Breaker Name/Number: Breaker #8,10,12 Electrical AFC Panel Name/Number: NEMM-IB	Rm 211 Rm 211 Rm 211				
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: "Trans NEMM-1B" SMNT/POWR escorts: LOW Voltage	Rm 211				
<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. Two handholes. Power run from Kiosk to AFC Panel is approx. 87'.			
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: NEME Source Breaker Name/Number: Breaker #'s 21,23 Panel Name/Number: KE (Kiosk Emergency Power)	Rm 211 Rm 211 Kiosk				
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:		Tino Sahoo					
Signature:							
Date:		12/11/2014					

Pictures 1&2: C02 McPherson Sq (East) – Handholes in mezzanine



Picture 3: C02 McPherson Sq (East) – New Kiosk to be installed in mezzanine



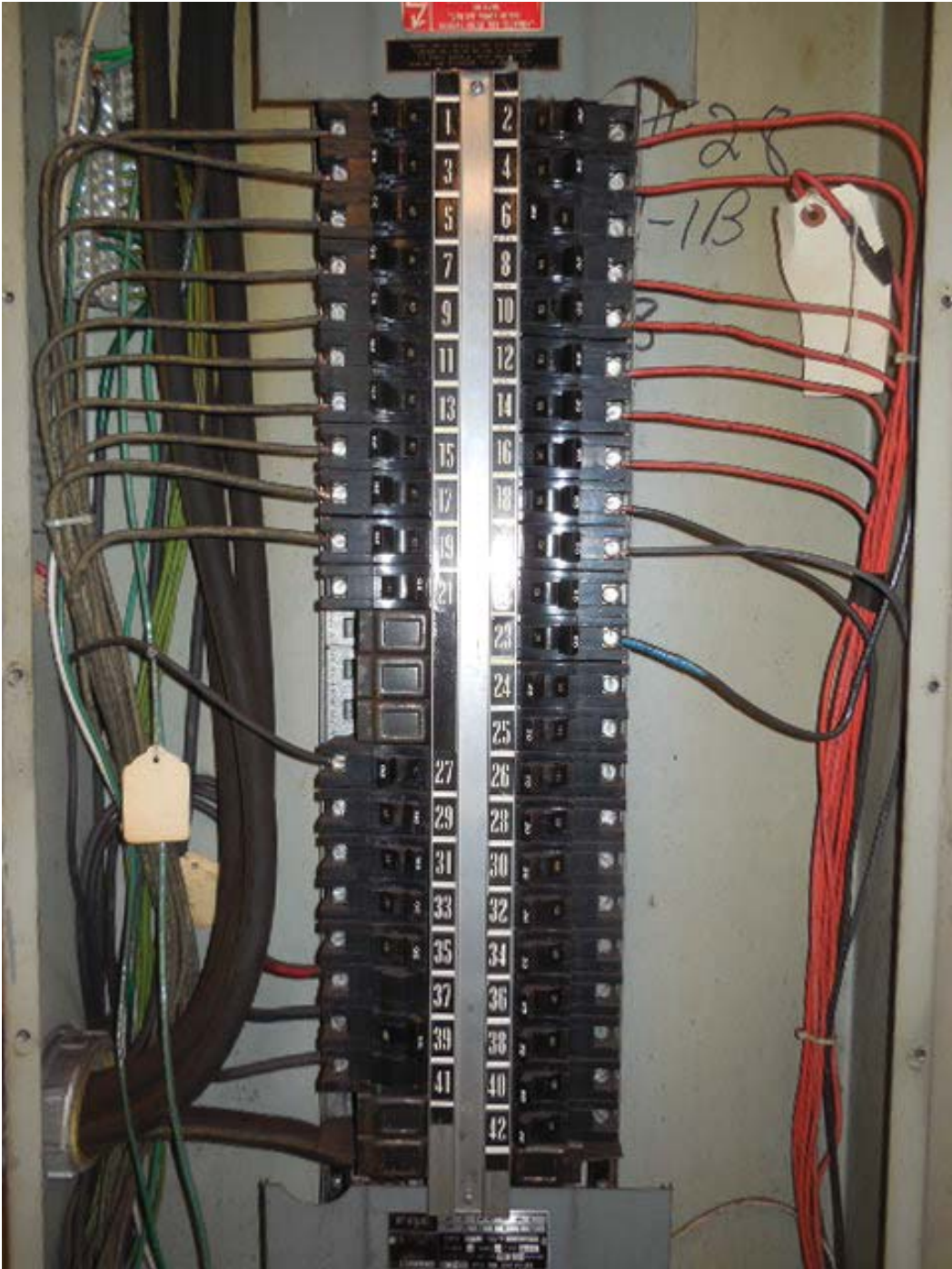
Pictures 4&5: C02 McPherson Sq (East) – Emergency panel in Kiosk



Picture 6: C02 McPherson Sq (East) – AFC Panel NEMM-IB in room 211



Picture 7: C02 McPherson Sq (East) – AFC Panel NEMM-IB in room 211



Picture 8: C02 McPherson Sq (East) – AFC Panel NEMM-IB in room 211 – Bottom duct



Picture 9: C02 McPherson Sq (East) – AFC Panel NEMM-IB in room 211 – Panel schedule

PANEL BOARD: *NEMM-IB* 120/208 V
 NE. Mozz. Mich. Hwy.

FED FROM: _____

CR.	LOAD DESCRIPTION	
1	Fros Area Vendors	
2	" " " " " "	
3	" " " " " "	7
4	" " " " " "	
5	" " " " " "	6
6	" " " " " "	
7	" " " " " "	
8	" " " " " "	
9	" " " " " "	4
10	" " " " " "	
11	" " " " " "	
12	" " " " " "	3
13	" " " " " "	4
14	" " " " " "	
15	" " " " " "	1
16	" " " " " "	
17	" " " " " "	
18	New Fuse Gate Rept. (23)	
19	Paid " " " "	
20	" " " " " "	
21	" " " " " "	
22	" " " " " "	
23	" " " " " "	
24	" " " " " "	
25	" " " " " "	
26	" " " " " "	
27	Kiosk Lights	
28	" " " " " "	
29	" " " " " "	
30	" " " " " "	
31	" " " " " "	
32	" " " " " "	
33	" " " " " "	
34	" " " " " "	
35	" " " " " "	
36	" " " " " "	
37	Kiosk Heat & Air Cond.	
38	Spare	
39	Kiosk Heat & Air Cond.	
40	Spare	
41	Kiosk Heat & Air Cond.	
42	Spare	

FEDERAL PACIFIC ELECTRIC CO

Picture 10: C02 McPherson Sq (East) – Disconnect switch for Trans NEMM-IB in room 211



Picture 11: C02 McPherson Sq (East) – Panel NEPOA in room 211



Picture 12: C02 McPherson Sq (East) – Panel NEPOA in room 211



Picture 13: C02 McPherson Sq (East) – Panel NEPOA in room 211 – Panel schedule

480/277

PANELBOARD: NEPOA

FEED FROM:

CIR.	LOAD DESCRIPTION
1	Entrance Escalators
2	NEMM-1A
3	Entrance Escalators
4	NEMM-1A
5	Entrance Escalators
6	NEMM-1A
7	Spare Generator Quick Conn
8	NEMM-1B
9	Spare Generator Quick Conn
10	NEMM-1B
11	Spare Generator Quick Conn
12	NEMM-1B
13	Mech Rm. Lights
14	Spare OFFICE LIGHTS
15	Mech Rm. Lights
16	Spare OFFICE LIGHTS
17	Elevator Mach Rm. Lights
18	Spare
19	
20	
21	
22	

Picture 14: C02 McPherson Sq (East) – Emergency Panel NEME in room 211



Picture 15: C02 McPherson Sq (East) – Emergency Panel NEME in room 211 – Panel schedule

120/208 V

NEME

PANEL BOARD: East Mezz. Mech. Room

FED FROM:	
CIR.	LOAD DESCRIPTION
1	Escalator 1 . Soft BRAKES #7
2	Passageway Lts.
3	Escalator 2 . #4 SOFT BRAKES
4	Passageway Lts.
5	Entrance Lts. Esc. #1 & #2
6	Escalator 3 . #6 SOFT BRAKES
7	Entrance Lts. Esc. #3 ←
8	Escalator 4 . #5 SOFT BRAKES
9	Elevator Lts.
10	Space Telephone RM Rec
11	Elevator Lts.
12	" " CSC
13	DADS SOFT BRAKES Soft Brakes
14	Paragate B.I. OFFICE LIGHTS
15	CCTV #3 POWER SUPPLY
16	Comm Box #2 IDIQ
17	Balustrade lites #7 - #2 IDIQ ↓
18	comb lites
19	CommBox-IDIQ
20	CommBox-IDIQ
21	Kiosk 30 2/P
22	New Mezz lights (North)
23	Kiosk 30 2/P
24	New Mezz Lights (South)
25	
26	
27	

NOTES:
 ALL INFORMATION, DIMENSIONS, WEIGHTS, AND CONDITIONS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTBY DATA BY WMRATA.

Pre-Inspection Field
 Verification 12/11/2014

THE MACHINE INVENTORY IS IN THIS DRAWING.
 THE MAXIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED IN THIS DRAWING BY THIS X DRAWN FROM THE MACHINE INVENTORY.

FOR AS-BUILT CONDITIONS SEE PART 2.
 FOR ELECTRICAL DRAWINGS SEE WARDEN DOCUMENTATION PACKAGE FOR THIS MEZZANINE.

ADDFAZE MACHINES
 EQUALLY SPACED ON
 MEZZANINE



2-INSTALLATION PLAN

CP-23007A-10-3-0

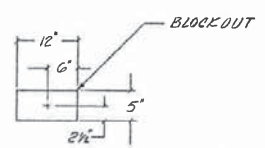
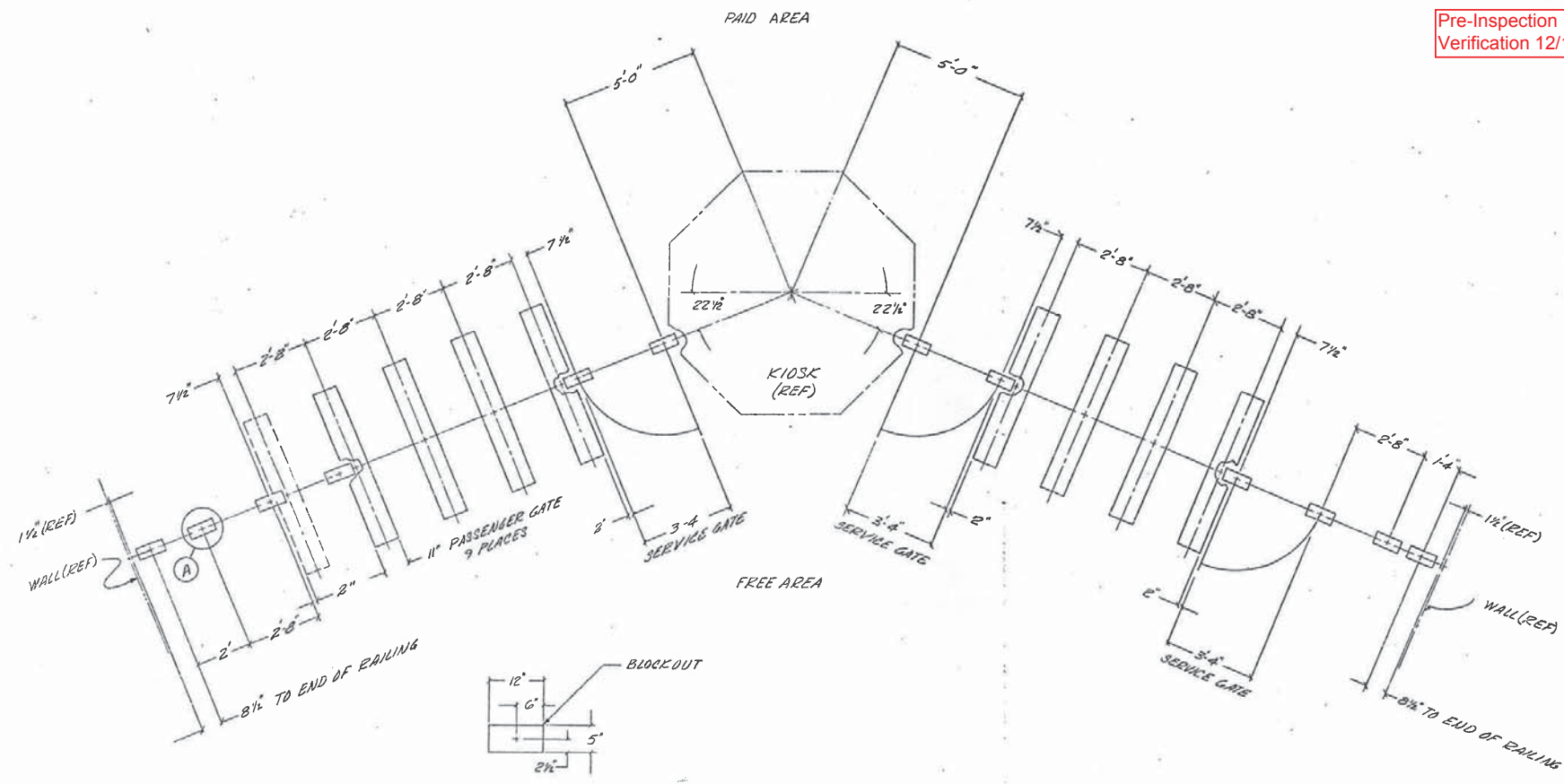
WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY
 APPROVED AS CORRECTED
 APPROVAL DOES NOT RELIEVE THE CONTRACTOR
 OF THE DESIGNER'S LIABILITY FOR THE ACCURACY OF
 THE DOCUMENTS OR FOR FULL COMPLIANCE
 WITH THE CONTRACT REQUIREMENTS.
 DATE: 12-16-14

CONTRACT NUMBER	CUBIC WESTBY INC.
PROJECT NAME	M. PIERSON SQUARE STATION EAST MEZZANINE AFC MACHINES
DATE	9/2/03
SCALE	AS SHOWN
DATE	12/11/14

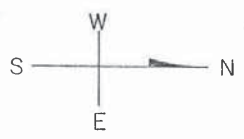
NOTES: UNLESS OTHERWISE SPECIFIED

ZONE		REVISIONS		DATE	APVD
LT	TR	DESCRIPTION			

Pre-Inspection Field
Verification 12/11/2014



DETAIL A
12 PLACES
SCALE 1"=1'-0"



-2
EAST MEZZANINE

WASHINGTON METROPOLITAN
RAPTA TRANSIT AUTHORITY

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL. ON DECIMALS .XX ± .03 .XXX ± .010 ± .30	UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE:	CONTRACT NUMBER 22007A		CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA
		M ^o PHELPSON SQUARE STATION SERVICE GATE & RAILING EAST MEZZANINE		
HOLE DIA.	TOLERANCES	DESIGN ACTIVITY APPROVAL	SIZE	DRAWING NUMBER
.0135 THRU .125	+0.04 -0.01		D 94987	926-0312
.126 THRU .250	+0.05 -0.01			
.256 THRU .500	+0.08 -0.01	APPROVED	SCALE 1/2"=1'-0"	SHEET 2 OF 2
.501 THRU .750	+0.08 -0.01		3K-985	
.751 THRU 1.000	+0.10 -0.01			

EXISTING PANEL "NEMM-1B" ✓													
AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE									
MAINS: 225 MLO		PHASE: 3		LOCATION: MECH EQUIP WATER SERVICE RM 211 ✓									
RATING: 10K AC		WIRE: 4		SECTION: 1 OF 1									
LOAD DESCRIPTION	KVA	CKT BKRS			NO.	CKT			NO.	CKT BKRS			LOAD DESCRIPTION
		AMP	POLE	NO.		NO.	POLE	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	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	0.8	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	0.0	SPARE	
SPACE	0.0	-	-	23	-	-	C	24	1	20	0.8	EXISTING VENDOR	
SPACE	0.0	-	-	25	A	-	26	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP)		
SPACE	0.0	-	-	27	-	-	C	28	1	20	0.0	SPARE (KIOSK)	
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	1	20	0.0	SPARE		
EXIST KIOSK LOAD CENTER	2.9	30	3	39	-	B	-	40	1	20	0.0	SPARE	
	2.5	-	-	41	-	-	C	42	1	20	0.0	SPARE	
	2.5	-	-	43	A	-	44	1	20	0.0	SPARE		
SPACE	0.0	-	-	45	-	B	-	46	1	20	0.0	SPARE	
SPACE	0.0	-	-	47	-	-	C	48	-	-	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	8.0 x 50%	4.0 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	3.0 x 125%	3.8 KVA
AC	4.5 x 100%	4.5 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	25.5 KVA	TOTAL DEMAND KVA 22.3 KVA
		TOTAL DEMAND AMPS 61.8 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	9.7 KVA
PHASE B:	7.7 KVA
PHASE C:	8.1 KVA

- NOTES: A. EXISTING PANEL "NEMM-1B" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "NEPOA" LOCATE IN MECH. EQUIPMENT RM. 211, CIRCUIT #2, 4, 6-50A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. IM-C-ED7).
- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 1-Ø 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-1/2" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1-3" C. TO TRANSFORMER (WIRING FILL >40%).

Pre-Inspection Field Verification 12/11/2014

EXISTING PANEL "NWMM-1B"													
AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE									
MAINS: 225 MLO		PHASE: 3		LOCATION: MECHANICAL EQUIP ROOM 212									
RATING: 10K AC		WIRE: 4		SECTION: 1 OF 1									
LOAD DESCRIPTION	KVA	CKT BKRS			NO.	CKT			NO.	CKT BKRS			LOAD DESCRIPTION
		AMP	POLE	NO.		NO.	POLE	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	0.8	20	1	5	-	-	C	6	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	7	A	-	8	1	20	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	9	-	B	-	10	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	11	-	-	C	12	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	13	A	-	14	1	20	0.8	EXISTING VENDOR		
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	17	-	-	C	18	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	19	A	-	20	1	20	0.8	EXISTING VENDOR		
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	21	-	B	-	22	1	20	0.8	EXISTING VENDOR	
182 SPARE (KIOSK)	0.0	20	1	23	-	-	C	24	-	-	0.0	SPACE	
EXISTING VENDOR	0.8	20	1	25	A	-	26	1	20	0.0	SPARE		
SPARE	0.0	-	-	27	-	-	C	28	-	-	0.0	SPACE	
EXISTING VENDOR	0.8	20	1	29	-	-	C	30	-	-	0.0	SPACE	
SPARE	0.0	20	1	31	A	-	32	-	-	0.0	SPACE		
SPARE	0.0	20	1	33	-	B	-	34	-	-	0.0	SPACE	
SPARE	0.0	20	1	35	-	-	C	36	1	20	0.0	SPARE	
SPARE	0.0	20	1	37	A	-	38	1	20	0.8	EXISTING VENDOR		
EXIST. KIOSK LOAD CENTER	2.5	30	3	39	-	B	-	40	1	20	0.0	SPARE	
	2.5	-	-	41	-	-	C	42	1	20	0.8	EXISTING VENDOR	
	2.5	-	-	43	A	-	44	1	20	0.0	SPARE		
SPACE	0.0	-	-	45	-	B	-	46	1	20	0.0	SPACE	
SPACE	0.0	-	-	47	-	-	C	48	-	-	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	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	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 22.9 KVA
		TOTAL DEMAND AMPS 63.5 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	9.7 KVA
PHASE B:	8.1 KVA
PHASE C:	8.9 KVA

- NOTES: A. EXISTING PANEL "NWMM-1B" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "NWPOA" LOCATE IN MECH. EQUIP. RM. 212, CIRCUIT #2, 4, 6-50A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. IM-C-ED7).
- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 1-Ø 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
 * 3-3/4" C. (1-EMPTY & 2-WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-3/4" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
 * 1-2" EMPTY CONDUIT.

CONTRACT NO
14-FQ10060-CENI-24

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

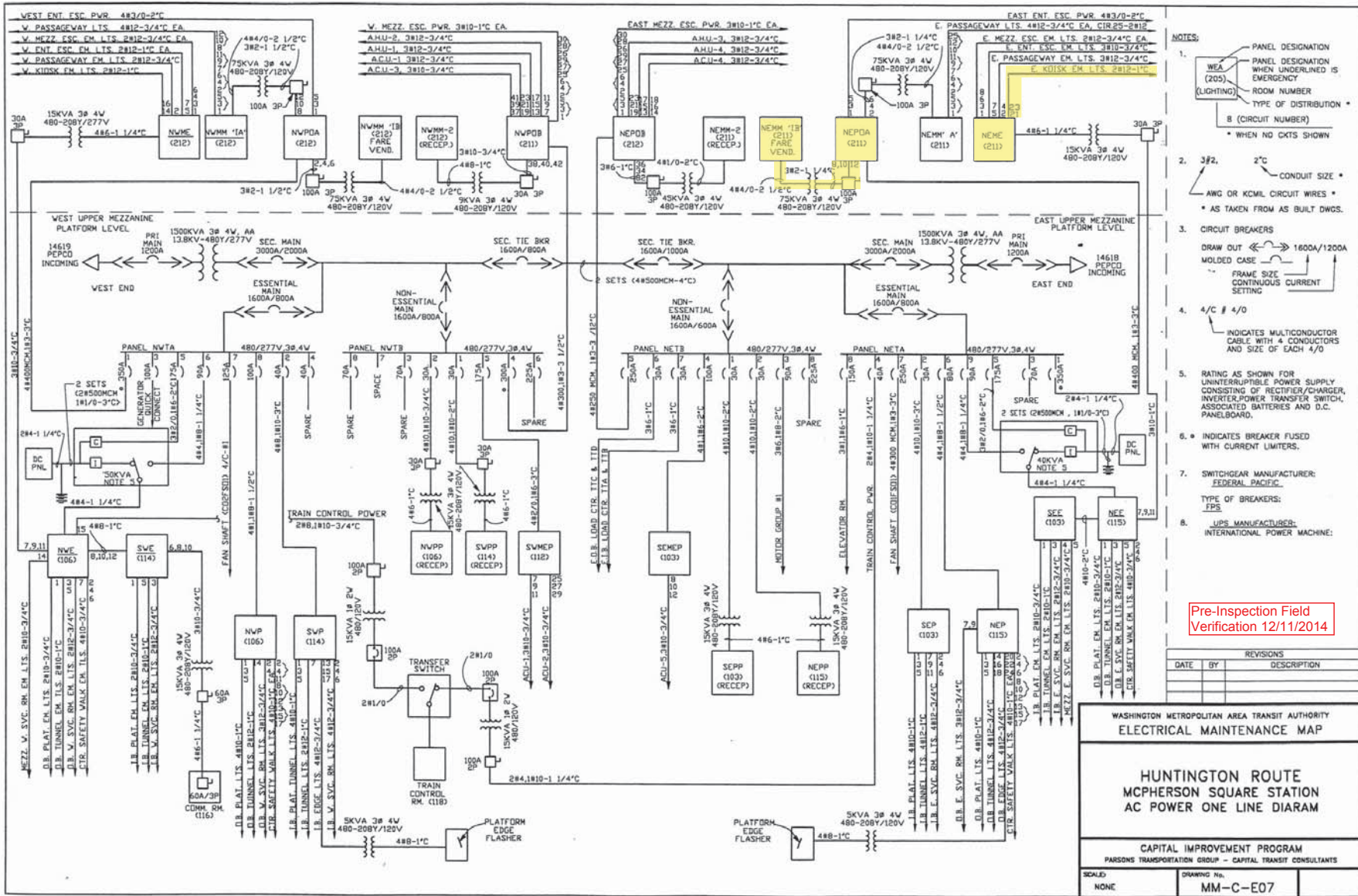
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

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

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
 McPHERSON SQUARE - EAST & WEST
 PANEL SCHEDULES

SCALE: NOT TO SCALE
 DRAWING NO: C02-E-102



Pre-Inspection Field Verification 12/11/2014


Pre-Inspection Mezzanine Walkthrough Checklist

Date: 12/11/2014	Station Name: McPherson Sq (West) - C02	Mezzanine #: 037	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: NWPOA Source Breaker Name/Number: Breaker #2,4,6 Electrical AFC Panel Name/Number: NWMM-IB	212 212 Rm 212	S.O. Request: Disconnect Switch "Trans NWMM-1B" to de-energize AFC Panel NWMM-1B; Breakers #8,10,12 on Source Panel NWPOA will de-energize Panel NWMM-1A (Shares Raceway);
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number: "Trans NWMM-1B" SMNT/POWR escorts: LOW Voltage	Rm 212	Disconnect Switch "Trans-NWME" will de-energize Panel NWME to kill emergency power to faregates.
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes. YES (see notes)		Panel NWMM-1A shares raceway with AFC Panel NWMM-1B. Breakers #8,10,12 on Panel NWPOA will de-energize Panel NWMM-1A.
<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:		Power Run from Kiosk to AFC Panel is approx 80'.
<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. No handholes. Straight shot from AFC panel to Kiosk with a 90 degree bend.

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: Disconnect switch "Trans NWME" Panel Name/Number:	Rm 212	

Notes and Discrepancies:

Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:		
Date:	12/11/2014	

Picture 1: C02 McPherson Sq (West) – No handholes in mezzanine



Pictures 2&3: C02 McPherson Sq (West) – Current kiosk is to be replace with new one



Pictures 4&5: C02 McPherson Sq (West) – Emergency panel in Kiosk



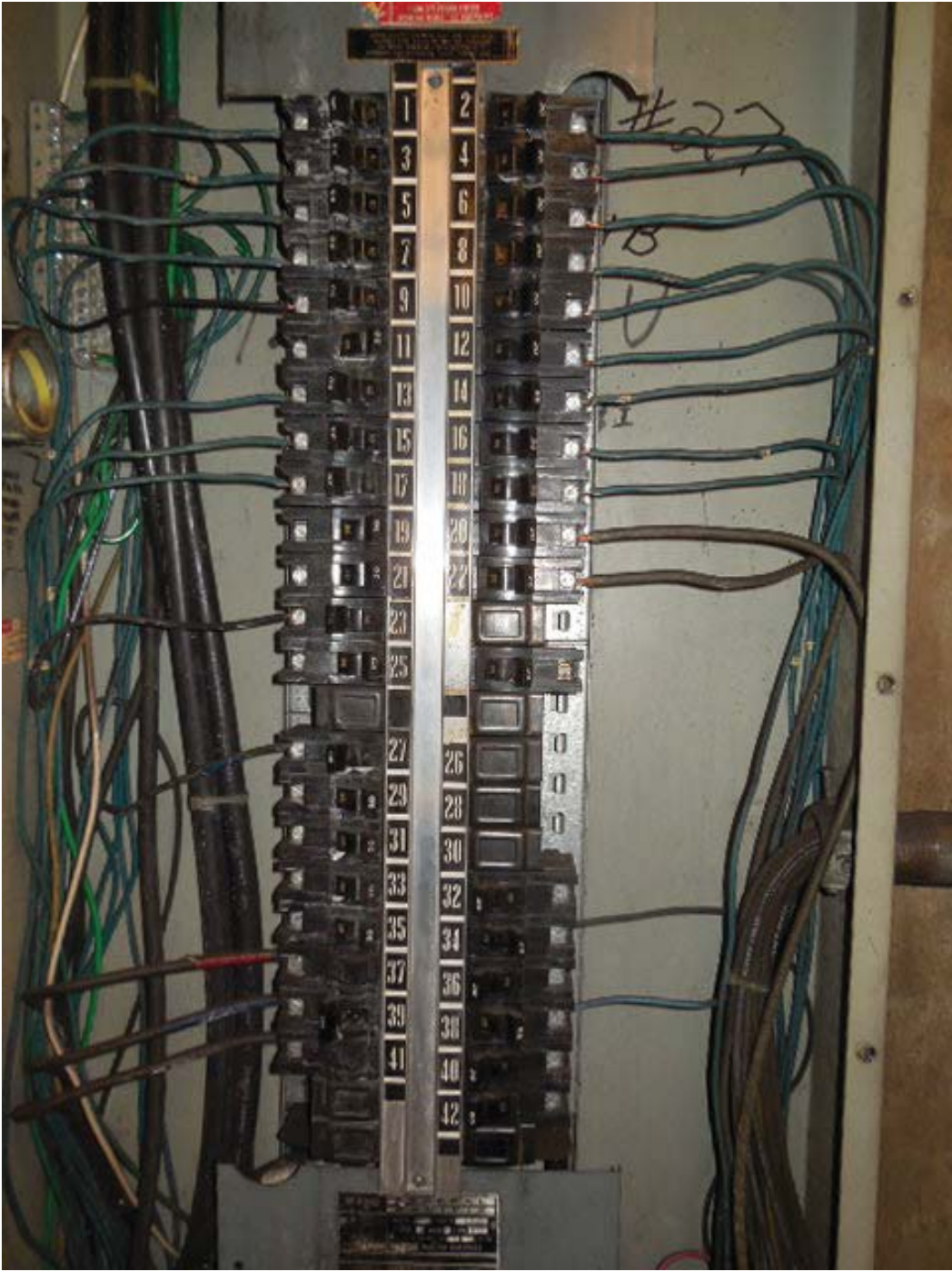
Picture 6: C02 McPherson Sq (West) – AFC Panel NWMM-1B in room 212



Picture 7: C02 McPherson Sq (West) - AFC Panel NWMM-1B in room 212



Picture 8: C02 McPherson Sq (West) - AFC Panel NWMM-1B in room 212



Picture 9: C02 McPherson Sq (West) - AFC Panel NWMM-1B in room 212 – Bottom duct and conduits



Picture 10: C02 McPherson Sq (West) – Transformer for AFC Panel NWMM-1B in room 212



Picture 11: C02 McPherson Sq (West) – Disconnect switch for Trans NWMM-1B in room 212



Picture 12: C02 McPherson Sq (West) – Emergency Panel NWME in room 212



Picture 13: C02 McPherson Sq (West) - Emergency Panel NWME in room 212 – Panel schedule

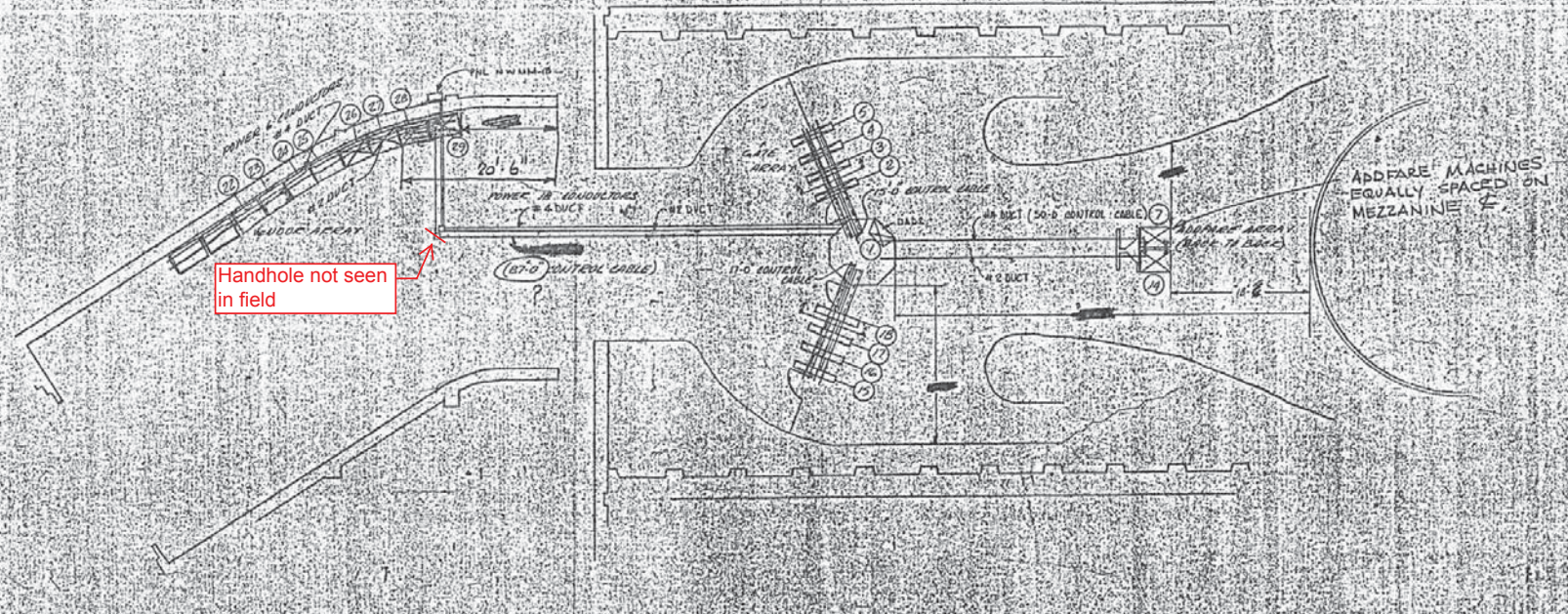
PANEL NO NWME				LOCATION MEZZANINE LEVEL WEST MECH. EQUIP ROOM					
PANEL TYPE 0.000 A.C. DYM				MAIN 100 AMP. LUGS ONLY					
NO OF CIRCUITS 12				PANEL MOUNTING SURFACE					
VOLTAGE 120/208V 3Ø 4W EMERGENCY LIGHTING									
DESIGNATION	WATTS			I ABC NO	WATTS			DESIGNATION	
	A	B	C		NO	A	B	C	
ESCALATOR LOTS ENTRANCE		050		1	2	1000			5 PASSWAY LITS
ESCALATOR		1050		3	4		050		ESCALATOR
ENTRANCE LITS			1000	5	6		750		ESCALATOR LOTS
ENTRANCE LITS		1000		7	8	1200			ENT. LIGHTS
SPARE		1000		9	10	1200			WORK EM. LIT
FAREGATE DT			500	11	12		1500		DAD'S
SUB TOTAL	2050	2050	1640		2000	2250	2250		SUB TOTAL
WATTS TOTAL	A 4750			NWME					
	B 4300								
	C 3210								
TOTAL WATTS	12750								

NOTES:

1. ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO OHS&M BY WMATA.
2. TOTAL MACHINE INVENTORY IS DERIVED ON THIS DRAWING.
3. THE MAXIMUM OPERATIONAL MACHINE INVENTORY IS REFLECTED ON THIS DRAWING BY THE 'X' DRAWN THROUGH THE MACHINE.
4. FOR AS-BUILT CONDITIONS SEE SHEET 2.
5. FOR REFERENCE DRAWINGS SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MEZZANINE.

REVISIONS		
DESCRIPTION	DATE	APPROVED

Pre-Inspection Field Verification 12/11/2014



Handhole not seen in field

ADDFARE MACHINES EQUALLY SPACED ON MEZZANINE

- I - INSTALLATION PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 APPROVED AS CORRECTED
 APPROVAL DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE ACCURACY OF THIS DOCUMENT OR FOR FULL COMPLIANCE WITH THE CONTRACT REQUIREMENTS
 BY: *Patrick S. Jones*
 DATE: 12.16.76

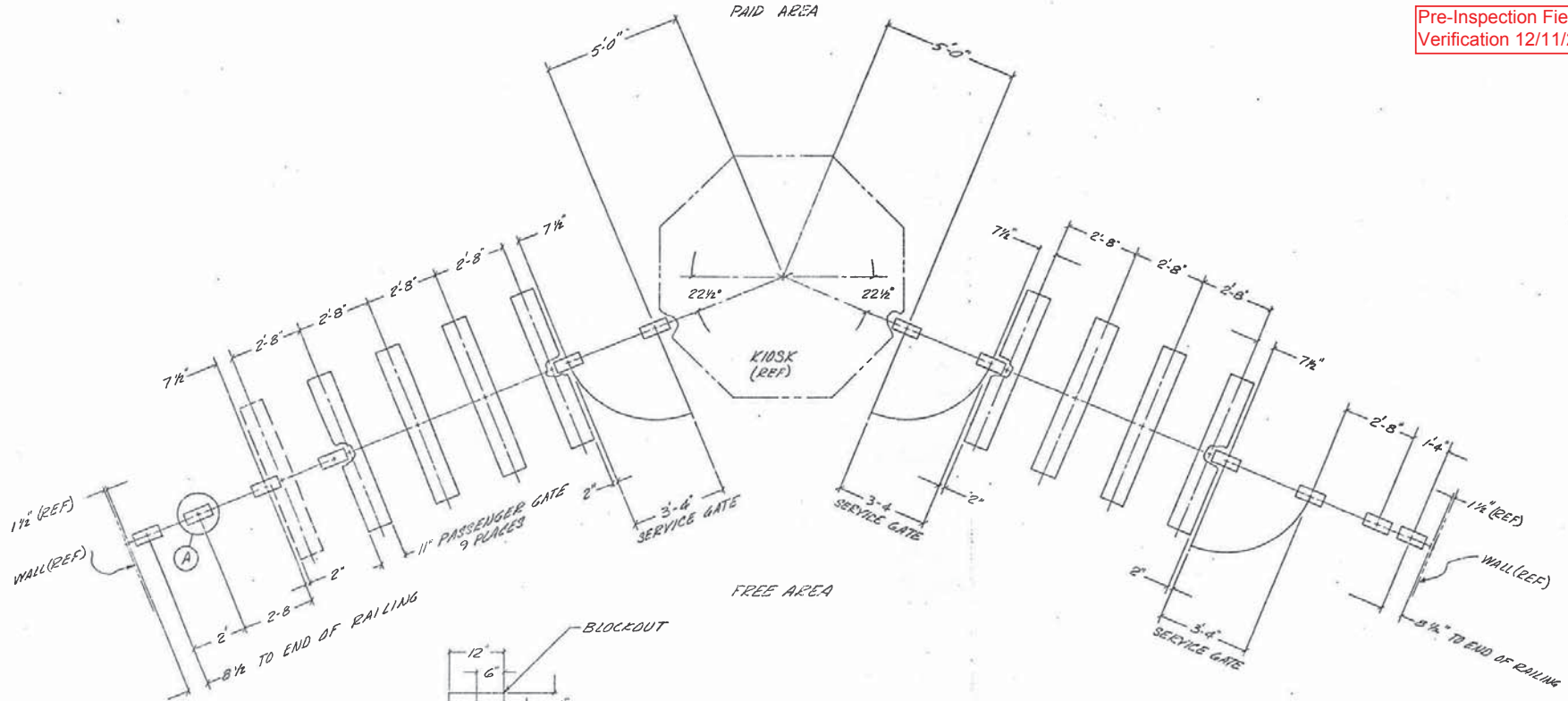
QUBICWESTERN DATA
 INC. PHEARSON SQUARE STATION
 WEST MEZZANINE
 AFC MACHINES
 926-0380 (37)

OSP 25007A-10-14-0

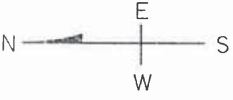
NOTES: UNLESS OTHERWISE SPECIFIED

ZONE/LTR		REVISIONS		DATE	APVD
A		APPROVED	TRANSMITTAL # 15	2/5/14	

Pre-Inspection Field Verification 12/11/2014



DETAIL A
12 PLACES
SCALE 1"=1'-0"



- 1 -
WEST MEZZANINE

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL. OF DECIMALS XX > 23 25K ± 0.10 ± 3%		CONTRACT NUMBER 22007A		CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA	
UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE:		DESIGN ACTIVITY APPROVAL S. W. Jones 10-1-14		DRAWING NUMBER 926-0312	
HOLE DIA	TOLERANCES	SCALE	1/4" = 1'-0"	SHEET	1 OF 2
.015 THRU .125	+ .004 - .001				
.126 THRU .250	+ .005 - .001				
.251 THRU .500	+ .006 - .001				
.501 THRU .750	+ .008 - .002				
.751 THRU 1.000	+ .010 - .001				

D
C
B
926-0312

A

37

EXISTING PANEL "NEMM-1B"													
AMPERES: 225		VOLTS: 120/208			MOUNTING: SURFACE								
MAINS: 225 MLO		PHASE: 3			LOCATION: MECH EQUIP WATER SERVICE RM 211								
RATING: 10K AC		WIRE: 4			SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	CKT BKRS			NO.	POLE	AMP	KVA	LOAD DESCRIPTION				
		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	0.0	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	0.8	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	0.0	SPARE			
SPACE	0.0	-	-	23	- C	24	1	20	0.8	EXISTING VENDOR			
SPACE	0.0	-	-	25	A	26	1	20	0.8	NEW KIOSK RECEIPT, (IT & NEPP)			
SPACE	0.0	-	-	27	- B	28	1	20	0.0	SPARE (KIOSK)			
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	1	20	0.0	SPARE			
EXIST KIOSK LOAD CENTER	2.9	30	3	39	- B	40	1	20	0.0	SPARE			
	2.5	-	-	41	- C	42	1	20	0.0	SPARE			
	2.5	-	-	43	A	44	1	20	0.0	SPARE			
SPACE	0.0	-	-	45	- B	46	1	20	0.0	SPARE			
SPACE	0.0	-	-	47	- C	48	-	-	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	8.0 x 50%	4.0	KVA
MISC. APPLIANCES	0.0 x 100%	0.0	KVA
LARGEST MOTOR	0.0 x 125%	0.0	KVA
MOTORS	0.0 x 100%	0.0	KVA
HEAT	3.0 x 125%	3.8	KVA
AC	4.5 x 100%	4.5	KVA
WATER HEATING	0.0 x 125%	0.0	KVA
TOTAL CONNECTED LOAD	25.5 KVA	TOTAL DEMAND KVA	22.3 KVA
		TOTAL DEMAND AMPS	61.8 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	9.7 KVA
PHASE B:	7.7 KVA
PHASE C:	8.1 KVA

- NOTES: A. EXISTING PANEL "NEMM-1B" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "NEPOA" LOCATE IN MECH. EQUIPMENT RM. 211, CIRCUIT #2,4,6-60A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. I&E-C-ED7).
- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 1-Ø 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-1/2" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1-3" C. TO TRANSFORMER (WIRING FILL >40%).

EXISTING PANEL "NWMM-1B"													
AMPERES: 225		VOLTS: 120/208			MOUNTING: SURFACE								
MAINS: 225 MLO		PHASE: 3			LOCATION: MECHANICAL EQUIP ROOM 212								
RATING: 10K AC		WIRE: 4			SECTION: 1 OF 1								
LOAD DESCRIPTION	KVA	CKT BKRS			NO.	POLE	AMP	KVA	LOAD DESCRIPTION				
		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			
SPARE	0.0	20	1	13	A	14	1	20	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	15	- B	16	1	20	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	17	- C	18	1	20	0.8	EXISTING VENDOR			
EXISTING VENDOR	0.8	20	1	19	A	20	1	20	0.8	EXISTING VENDOR			
NEW KIOSK RECEIPT, (IT & NEPP)	0.8	20	1	21	- B	22	1	20	0.8	EXISTING VENDOR			
SPACE (KIOSK)	0.0	20	1	23	- C	24	-	-	0.0	SPACE			
EXISTING VENDOR	0.8	20	1	25	A	26	1	20	0.0	SPARE			
SPACE	0.0	-	-	27	- B	28	-	-	0.0	SPACE			
EXISTING VENDOR	0.8	20	1	29	- C	30	-	-	0.0	SPACE			
SPARE	0.0	20	1	31	A	32	-	-	0.0	SPACE			
SPARE	0.0	20	1	33	- B	34	-	-	0.0	SPACE			
SPARE	0.0	20	1	35	- C	36	1	20	0.0	SPARE			
SPARE	0.0	20	1	37	A	38	1	20	0.8	EXISTING VENDOR			
EXIST KIOSK LOAD CENTER	2.5	30	3	39	- B	40	1	20	0.0	SPARE			
	2.5	-	-	41	- C	42	1	20	0.8	EXISTING VENDOR			
	2.5	-	-	43	A	44	1	20	0.0	SPARE			
SPACE	0.0	-	-	45	- B	46	1	20	0.0	SPARE			
SPACE	0.0	-	-	47	- C	48	-	-	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	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	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	22.9 KVA
		TOTAL DEMAND AMPS	63.5 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	9.7 KVA
PHASE B:	8.1 KVA
PHASE C:	8.9 KVA

- NOTES: A. EXISTING PANEL "NWMM-1B" IS FED FROM 277/480V, 3Ø, 4W EXISTING PANEL "NWPOA" LOCATE IN MECH. EQUIP. RM. 212, CIRCUIT #2,4,6-60A/3P VIA 75KVA TRANSFORMER (SEE ATTACHED DWG. I&E-C-ED7).
- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 1-Ø 1/2" x 1 1/2" FLOOR DUCT (WIRING FILL >40%).
 * 3-3/4" C. (1-EMPTY & 2-WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-3/4" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1-3" C. TO TRANSFORMER (WIRING FILL >40%).
 * 1-2" EMPTY CONDUIT.

Pre-Inspection Field Verification 12/11/2014

CONTRACT NO
14-FQ10060-CENI-24

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

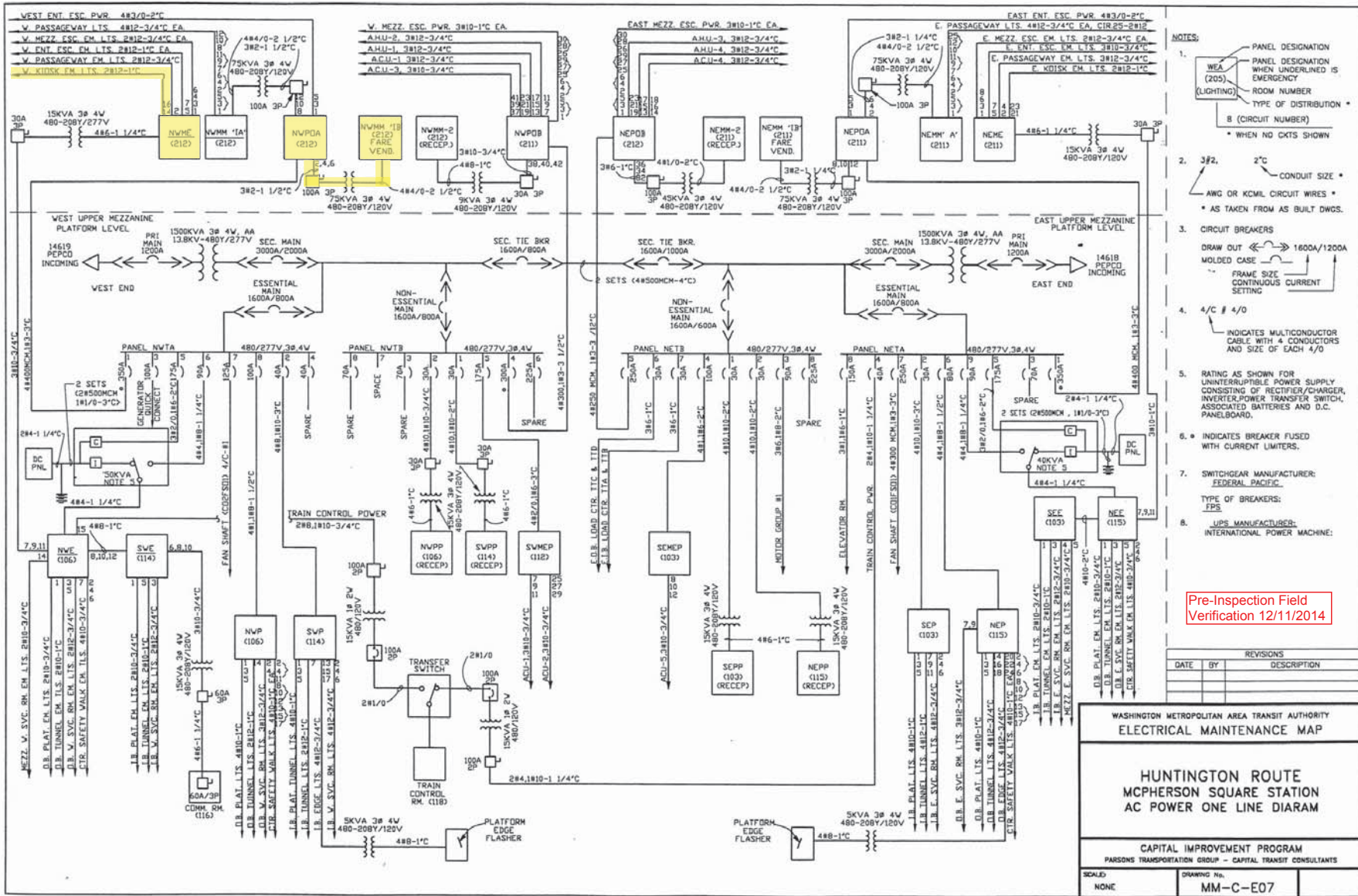
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

APPROVED _____

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

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS
 McPHERSON SQUARE - EAST & WEST
 PANEL SCHEDULES

SCALE: NOT TO SCALE
 DRAWING NO: C02-E-102



- NOTES:
1. PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY (LIGHTING)
 WEA (205)
 ROOM NUMBER
 TYPE OF DISTRIBUTION
 B (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 \rightarrow 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. * INDICATES BREAKER FUSED WITH CURRENT LIMITERS.
 7. SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC
 TYPE OF BREAKERS: FPS
 8. UPS MANUFACTURER: INTERNATIONAL POWER MACHINE.

Pre-Inspection Field Verification 12/11/2014

REVISIONS		
DATE	BY	DESCRIPTION


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 ELECTRICAL MAINTENANCE MAP

**HUNTINGTON ROUTE
 MCPHERSON SQUARE STATION
 AC POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE	DRAWING NO. MM-C-E07
-------------	----------------------

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/18/2014	Station Name: Farragut West - C03	Mezzanine #: 038	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: SEPOA Source Breaker Name/Number: Breaker #3,5,7 Electrical AFC Panel Name/Number: SEMA	Rm 201 Rm 201 Rm 201	
<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:		Two handholes in entrance passageway.
<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: Kiosk Panel (unlabeled) Source Breaker Name/Number: Breaker #3 Panel Name/Number: Emergency Power to Faregates	Kiosk Kiosk	
Notes and Discrepancies:				
Sign Off	GFP Representative	WMATA PRGM		
Name:	Tino Sahoo			
Signature:				
Date:	11/18/2014			

Pictures 1&2: C03 Farragut West – Handholes in mezzanine



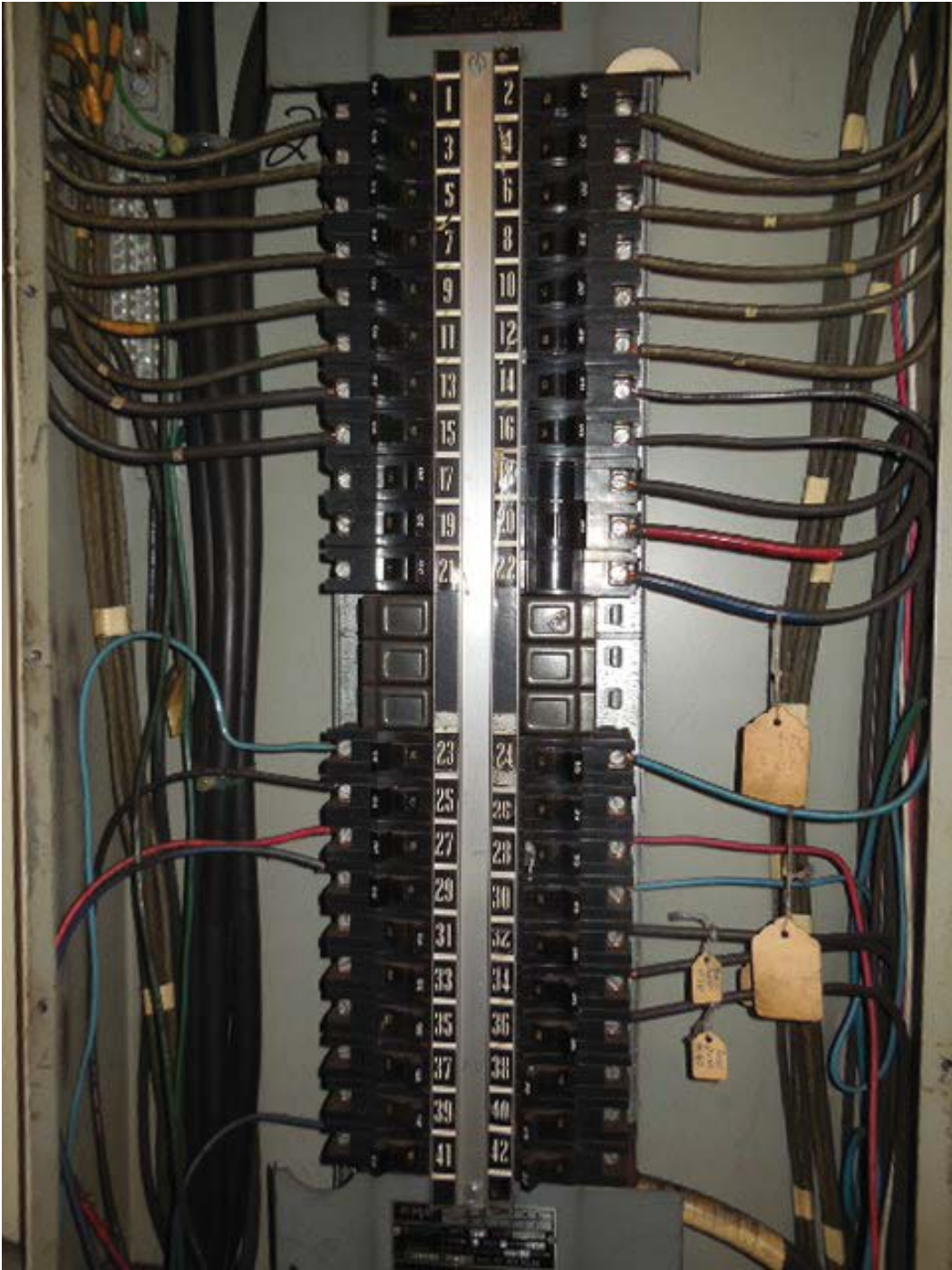
Pictures 3&4: C03 Farragut West – Emergency panel in Kiosk



Picture 5: C03 Farragut West – AFC Panel SEMA in Rm 201



Picture 6: C03 Farragut West – AFC Panel SEMA in Rm 201



Picture 7: C03 Farragut West – AFC Panel SEMA in Rm 201, bottom ducts



Picture 8: C03 Farragut West – AFC Panel SEMA in Rm 201, panel schedule



Picture 9: C03 Farragut West – Panel SEPOA in Rm 201



Picture 10: C03 Farragut West – Panel SEPOA in Rm 201, panel schedule

SEPOA

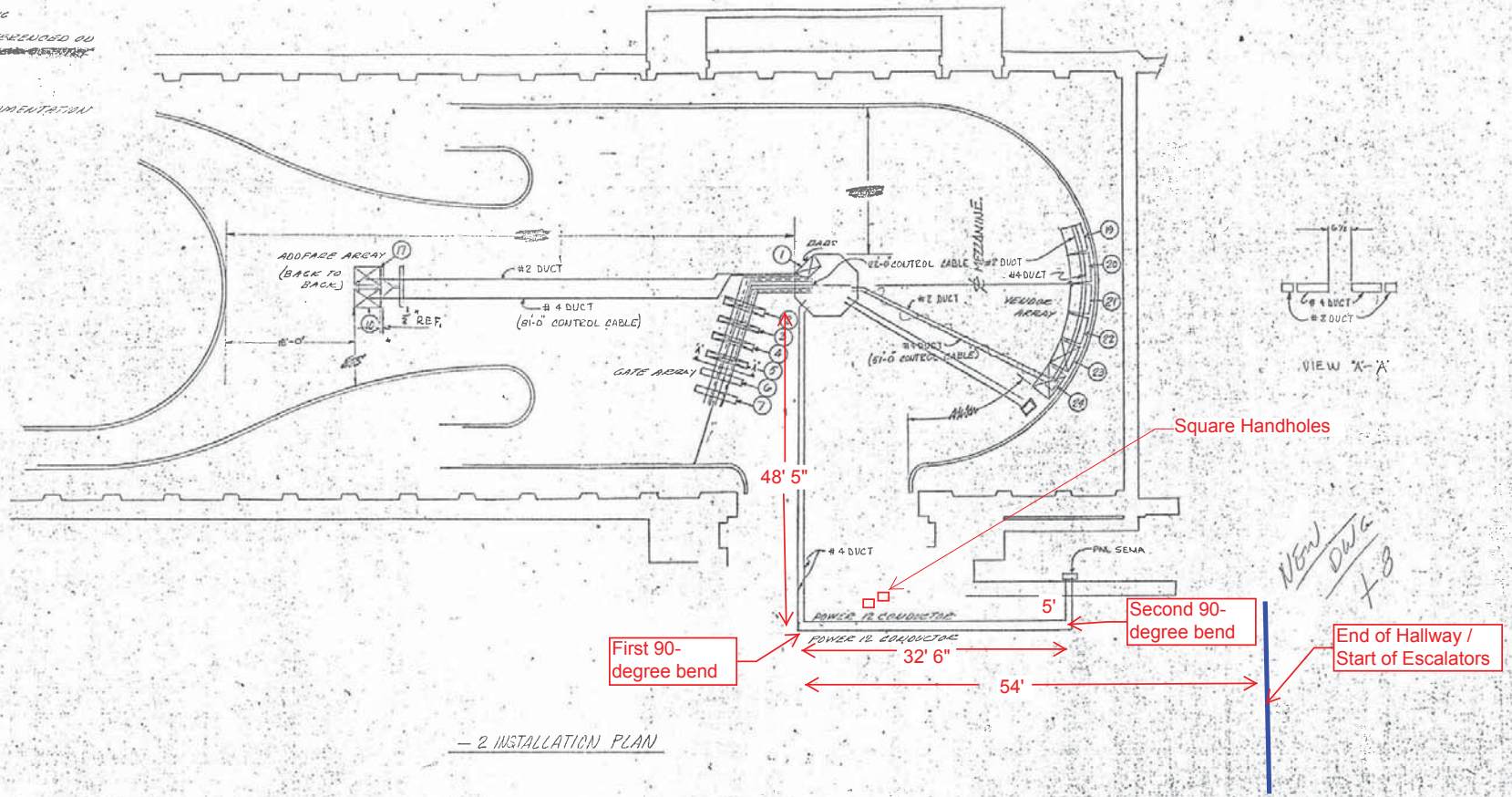
PANEL	
1	STREET PYLON LT.
2	SE MEZZ. ANCILLARY LTS.
3	XFORMER
4	
5	FOR
6	EWT. ESCALATOR
7	PANEL SEMA
8	ESC ALCOHOL
9	XFORMER
10	EAST EXH. R.
11	FOR
12	ESCALATOR
13	PANEL SEMM
14	HEATERS
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	PANEL SEPOA
30	
31	
32	
33	
34	

NEMA NUMBERING

REVISIONS		
DESCRIPTION	DATE	APVD

INFORMATION CONCERNING DUCTS AND CONDUITS IS
 INFORMATION SUPPLIED TO CUBIC WESTERN DATA
 SEE DRAWING FOR INFORMATION ON THE LOCATION OF THE
 DUCTS AND CONDUITS. ALL DIMENSIONS ARE IN FEET AND INCHES.
 UNLESS OTHERWISE SPECIFIED.

MACHINE INVENTORY IS DEPICTED ON THIS DRAWING
 MUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON
 DRAWING BY THE 'X' DRAWN THROUGH THE MACHINE'S
 SERIAL NUMBER.
 BUILT CONDITIONS SEE SHEET 2.
 REFER TO DRAWING USED FOR SUPPORT DOCUMENTATION
 FOR THIS MECHANISM.



- 2 INSTALLATION PLAN

WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY
 APPROVED AS CORRECTED
 (REVISIONAL NOT REQUIRED)
 Approval does not relieve the Contractor
 of the Responsibility for the Accuracy of
 this Document or for Full Compliance
 with the Contract Requirements.
 BY: *F. Smith*
 DATE: 7-7-76

REFERENCE DRAWINGS USED
 WATA 92-01-01-01
 WATA 92-01-01-02
 WATA 92-01-01-03
 WATA 92-01-01-04

CP-92007A-105-3-01

CUBIC WESTERN DATA	
FAIRGAIT WEST STATION EAST MEZZANINE AFC MACHINES	
DESIGN ACTIVITY APPROVAL	DATE: 7-7-76
APPROVED	DATE: 7-7-76
SCALE: 1/8" = 1'-0"	SHEET 2 OF 2

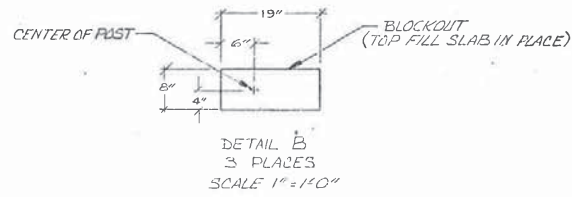
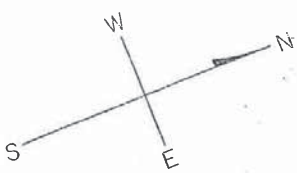
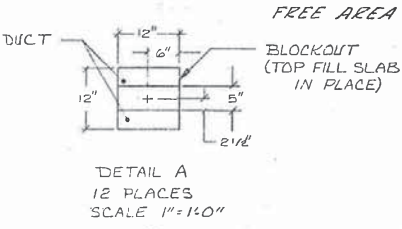
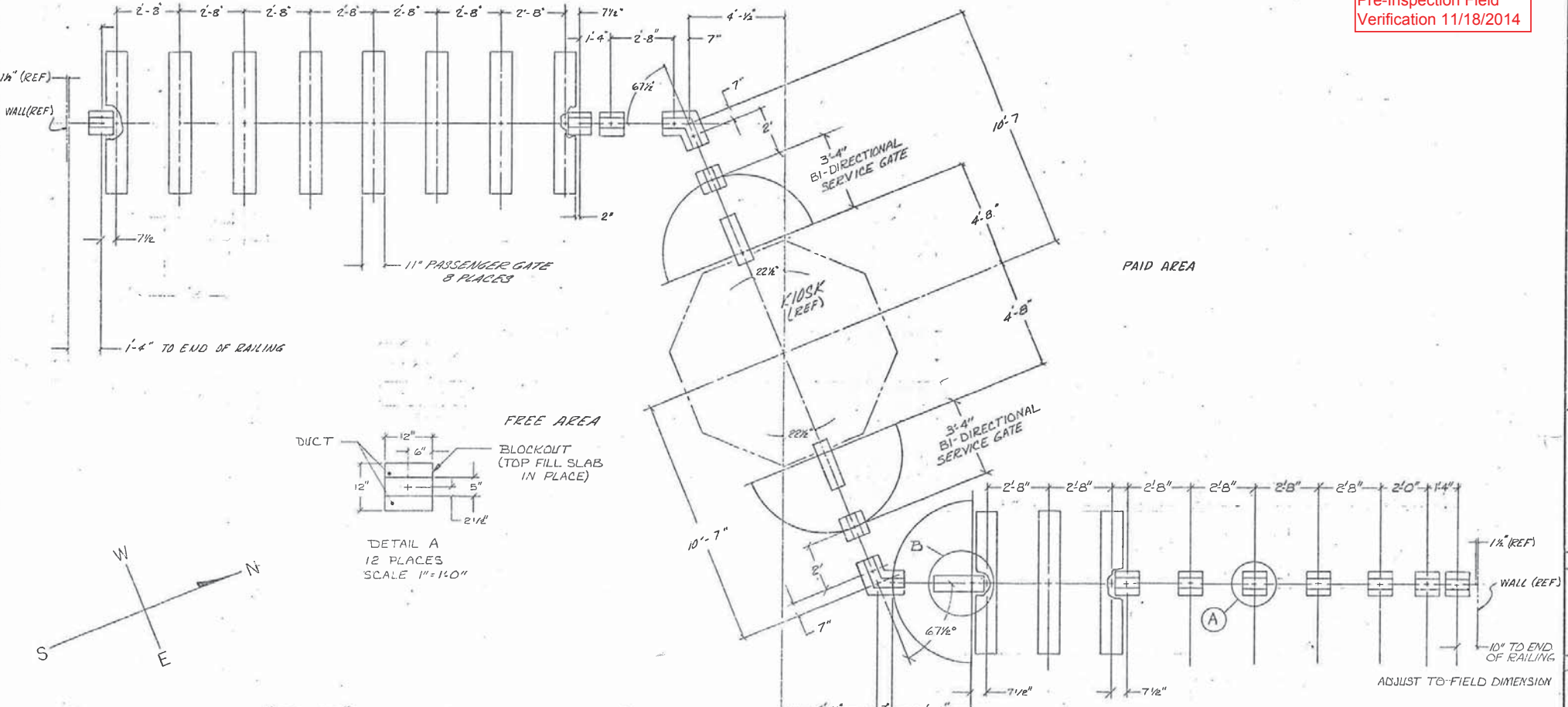
DRAWING NUMBER: 926-A377 (38)

43030

NOTES: UNLESS OTHERWISE SPECIFIED

REVISIONS		DATE	APVD
ZONE	LTR	DESCRIPTION	

Pre-Inspection Field
Verification 11/18/2014



EAST MEZZANINE

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL ON DECIMALS		CONTRACT NUMBER 22007A	
XX ± .03 XXX ± .10 ± .50		CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA	
UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE:		FARRAGUT WEST STATION SERVICE GATE & RAILING EAST MEZZANINE	
HOLE DIA	TOLERANCES	REV	REV
.015 THRU .128	+ .004 - .001	DESIGN	
.128 THRU .250	+ .005 - .001	CHECK	
.250 THRU .500	+ .006 - .001	DRAWN	
.501 THRU .750	+ .008 - .001	DESIGN ACTIVITY APPROVAL	
.751 THRU 1.000	+ .010 - .001	APPROVED	
		DATE	DRAWING NUMBER
		11-14-12	926-0310
		SCALE	SHEET 2 OF 2

D
C
B
A
926-0310
B

EXISTING PANEL "SWMA"

AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE			
MAINS: 225 MLO		PHASE: 3		LOCATION: WATER SERVICE CLEANER RM MECH EQUIPMENT 214			
RATING: 10KAIC		WIRE: 4		SECTION: 1 OF 1			
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CTKT BKRS	KVA	LOAD DESCRIPTION
EXISTING VENDOR	0.8	20	1	1	A - - 2 3 30	2.5	EXIST KIOSK LOAD CENTER
EXISTING VENDOR	0.8	20	1	3	- B - 4 - -	2.5	
EXISTING VENDOR	0.8	20	1	5	- - C 6 - -	2.5	
EXISTING VENDOR	0.8	20	1	7	A - - 8 1 20	0.8	EXISTING VENDOR
NEW KIOSK RECEPT. (IT & NEPP)	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 (KIOSK)	0.0	20	1	13	A - - 14 1 20	0.0	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 3 30	0.0	SPACE
SPACE	0.0	-	-	25	A - - 26 - -	0.0	SPACE
SPACE	0.0	-	-	27	- B - 28 - -	0.0	SPACE
EXISTING VENDOR	0.8	20	1	29	- - C 30 1 20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	31	A - - 32 1 20	0.8	EXISTING VENDOR
SPACE	0.0	-	-	33	- B - 34 1 20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	35	- - C 36 1 20	0.0	SPACE (KIOSK)
EXISTING VENDOR	0.8	20	1	37	A - - 38 1 20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	39	- B - 40 1 20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	41	- - C 42 1 20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	43	A - - 44 1 20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	45	- B - 46 - -	0.0	SPACE
SPARE	0.0	20	1	47	- - C 48 - -	0.0	SPACE

- NOTES: 1. CONNECT NEW FEEDER TO EXISTING 20A, 1P CB
 2. CB TO BE RESERVED FOR FUTURE AFC
 3. BREAKER IS IN SPACE #36 BUT CIRCUIT LABEL IN ACTUAL PANEL IS #30

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	15.6 x 50%	7.8 KVA
MISC. APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	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	33.1 KVA	TOTAL DEMAND KVA 26.1 KVA
		TOTAL DEMAND AMPS 72.4 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	11.3 KVA
PHASE B	11.3 KVA
PHASE C	10.5 KVA

NOTES: A. THE EXISTING PANEL "SWMA" IS FED FROM 277/480V, 3Ø, 4W PANEL "SWPOA" VIA 75 KVA TRANSFORMER LOCATED IN WATER SERVICE CLEANER RM. MECH. EQUIPMENT 214, #17,19,21-90/3P (SEE ATTACHED DWG. MM-C-E08).

- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 2-6 1/2" x 1 1/2" FLOOR DUCTS (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-3/4" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1-1 1/2" C. (WIRING FILL >40%).
 * 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

EXISTING PANEL "SEMA"

AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE			
MAINS: 225 MLO		PHASE: 3		LOCATION: CLEANERS ROOM WATER SERVICE 201			
RATING: 10KAIC		WIRE: 4		SECTION: 1 OF 1			
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CTKT BKRS	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 3 30	2.5	EXIST KIOSK LOAD CENTER
SPARE (KIOSK)	0.0	20	1	19	A - - 20 - -	2.5	
SPACE	0.0	20	1	21	- B - 22 - -	2.5	
SPACE	0.0	-	-	23	- - C 24 - -	0.0	SPACE
SPACE	0.0	-	-	25	A - - 26 - -	0.0	SPACE
SPACE	0.0	-	-	27	- B - 28 - -	0.0	SPACE
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	0.0	SPACE
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	0.8	EXISTING VENDOR
SPACE	0.0	20	1	37	A - - 38 1 20	0.8	EXISTING VENDOR
SPACE	0.0	20	1	39	- B - 40 1 20	0.8	EXISTING VENDOR
SPACE	0.0	20	1	41	- - C 42 1 20	0.8	EXISTING VENDOR
SPACE	0.0	20	1	43	A - - 44 1 20	0.0	SPACE
SPACE	0.0	20	1	45	- B - 46 1 20	0.0	SPACE
EXISTING VENDOR	0.8	-	-	47	- - C 48 1 20	0.0	SPACE

- 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	12.4 x 50%	6.2 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	29.9 KVA	TOTAL DEMAND KVA 24.5 KVA
		TOTAL DEMAND AMPS 67.9 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A	8.9 KVA
PHASE B	9.7 KVA
PHASE C	11.3 KVA

NOTES: A. THE EXISTING PANEL "SEMA" IS FED FROM 277/480V, 3Ø, 4W PANEL "SEPOA" VIA 75 KVA TRANSFORMER LOCATED IN CLEANERS ROOM WATER SERVICE 201, #21,19,21-90/3P (SEE ATTACHED DWG. MM-C-E08).

- B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 2-6 1/2" x 1 1/2" FLOOR DUCTS (WIRING FILL >30%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-1/2" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM LEFT SIDE OF PANEL BY:
 * 1-4" C. TO TRANSFORMER (WIRING FILL >40%).

Pre-Inspection Field Verification 11/18/2014

CONTRACT NO. 14-FQ10060-CENI-24

DESIGNED C. NGO	DATE 11-14	REFERENCE DRAWINGS		REVISIONS	
		NUMBER	DESCRIPTION	DATE	DESCRIPTION
DRAWN C. NGO	DATE 11-14				
CHECKED B. DILBI	DATE 11-14				
APPROVED N/A	DATE				

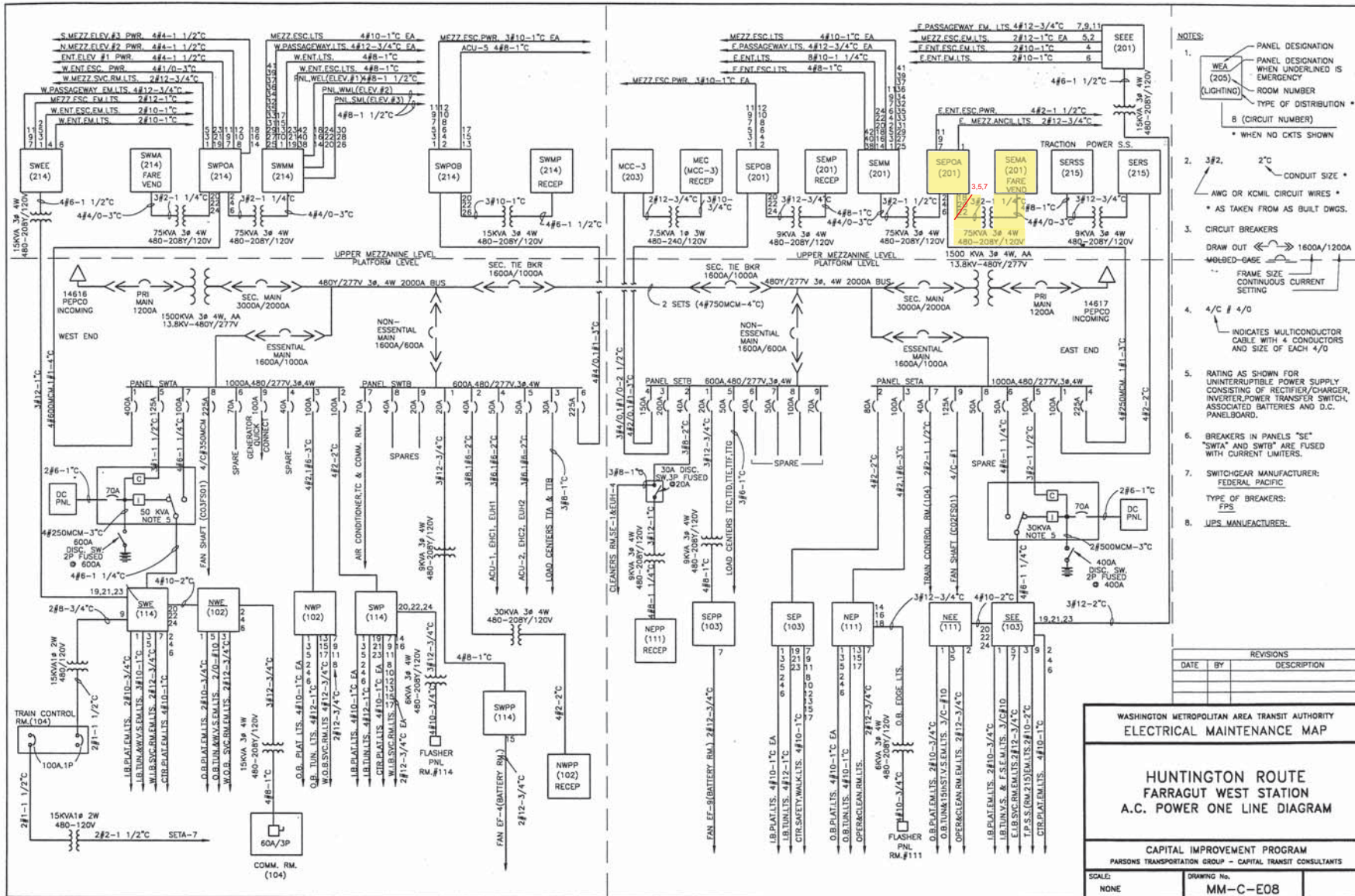
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES
 OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM

 APPROVED _____ SUBMITTED _____ PROJECT MANAGER

NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS FARRAGUT WEST - EAST & WEST PANEL SCHEDULES
 SCALE: NOT TO SCALE
 DRAWING NO. C03-E-102

Pre-Inspection Field Verification 11/18/2014

D:\ELECT\NewWaIntMap\C-Route\MM-C-E08.dwg Tue Jun 27 23:46:09 2000 R.M.



- NOTES:
1. PANEL DESIGNATION
WEA (205)
PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY
ROOM NUMBER
TYPE OF DISTRIBUTION
B (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. BREAKERS IN PANELS "SE" "SWTA" AND "SWTB" ARE FUSED WITH CURRENT LIMITERS.
 7. SWITCHGEAR MANUFACTURER: FEDERAL PACIFIC
TYPE OF BREAKERS: FPS
 8. UPS MANUFACTURER:

REVISIONS		
DATE	BY	DESCRIPTION

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

**HUNTINGTON ROUTE
FARRAGUT WEST STATION
A.C. POWER ONE LINE DIAGRAM**

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE	DRAWING NO. MM-C-E08
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Pre-Inspection Mezzanine Walkthrough Checklist

REVISION 1

Date: 12/11/2014	Station Name: Foggy Bottom - C04	Mezzanine #: 040	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: M Source Breaker Name/Number: Breaker #15 Electrical AFC Panel Name/Number: 1MM & 2MM	Rm C204 Rm C204 Rm C204	
<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: Disconnect Switch (See notes) SMNT/POWR escorts: LOW Voltage	Rm C204	Disconnect switch "Panels 1MM & 2MM fed from Panel M, Circuit #15".
<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		Panels 2MPO, 1MPO, M, 1MM, and 2MM share common trough.
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:		Has apron skirt.
<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		Overhead conduit runs. Kiosk has apron skirt. Kiosk to AFC Panel power run is walker duct from Kiosk to handhole in mezzanine area via 2-2" conduits to service area room into manhole and then under slab in walker duct to AFC Panel (2MM)

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: MEE Source Breaker Name/Number: Breaker #13 Panel Name/Number: KE (Kiosk Emergency Panel)	Rm C204 Rm C204 Kiosk	Kiosk Panel (unlabeled) located in Kiosk, Breaker #5 de-energizes emergency power to faregates.

Notes and Discrepancies:		
Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:		
Date:	12/11/2014	

Pictures 1&2: C04 Foggy Bottom – Handholes in Mezzanine



Pictures 3&4: C04 Foggy Bottom – Apron skirt around Kiosk



Pictures 5-7: C04 Foggy Bottom – Conduits on Mezzanine ceiling and passing through drop ceiling



Pictures 8&9: C04 Foggy Bottom – Emergency panel in Kiosk



Picture 10: C04 Foggy Bottom – Manhole in room C204



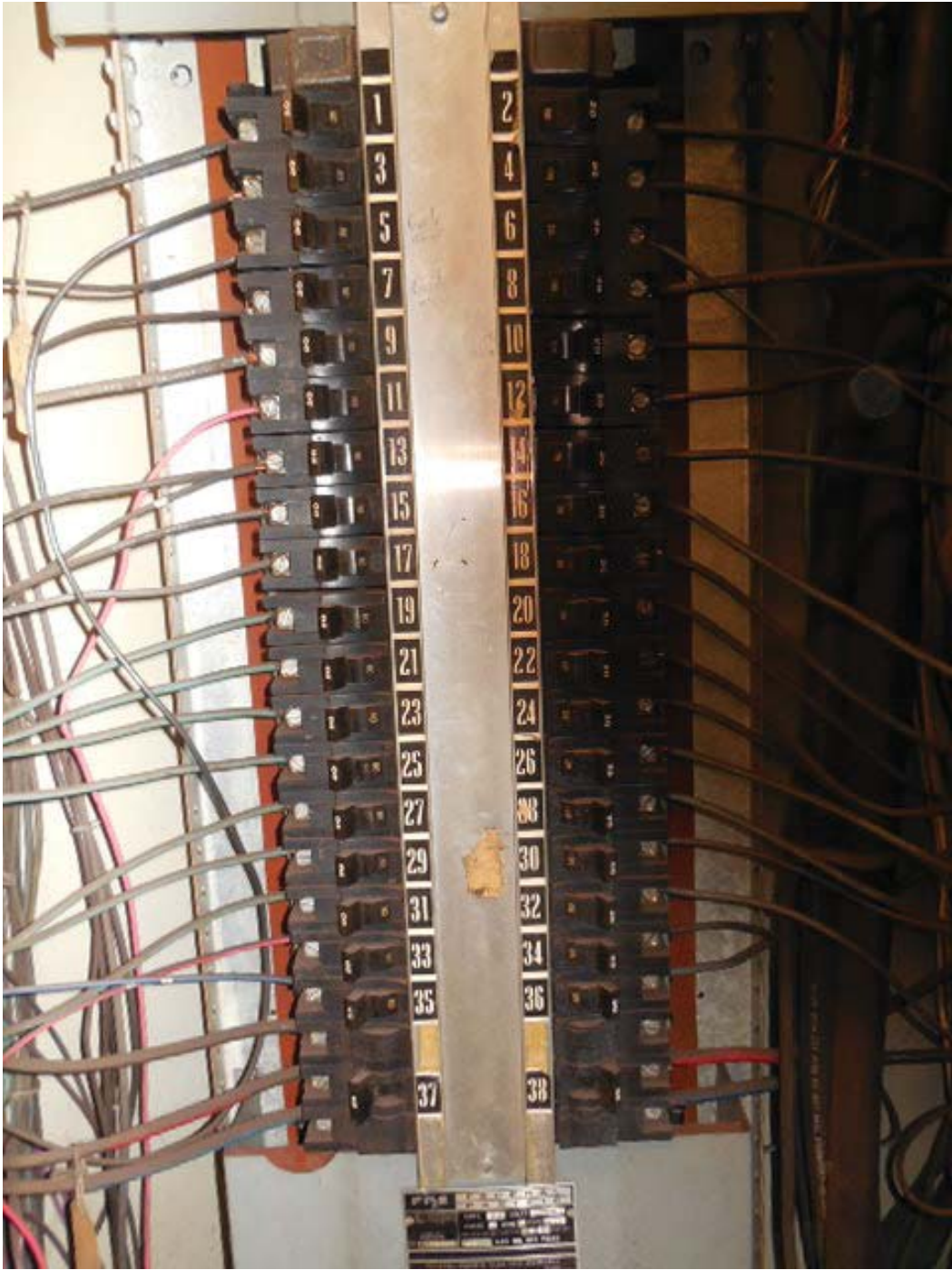
Picture 11: C04 Foggy Bottom – AFC Panel 1MM in room C204



Picture 12: C04 Foggy Bottom – AFC Panel 1MM in room C204



Picture 13: C04 Foggy Bottom – AFC Panel 1MM in room C204



Picture 14: C04 Foggy Bottom – AFC Panel 1MM in room C204 – Bottom of panel



Picture 15: C04 Foggy Bottom – AFC Panel 2MM in room C204



Picture 16: C04 Foggy Bottom – AFC Panel 2MM in room C204



Picture 17: C04 Foggy Bottom – AFC Panel 2MM in room C204 – Panel schedule

PANELBOARD 204 3 PHASE

Fed From:

Circuit	Load Description
1	Lights Passageway
2	Lights Under Mezzanines
3	Lights Passageway
4	Lights Under Mezzanines
5	Lights Passageway
6	Lights Under Mezzanines
7	Lights Passageway
8	Elevator 1 Signal Light
9	Light Passageway
10	Lights Passageway (Map LTS-Free)
11	Elevator Lights <i>→ Passageway LTS</i>
12	Elevator Lights C + Map Case
13	Map Board Lights
14	
15	
16	
17	<i>37V Gray Channel</i>
18	
19	
20	Entry / Exit Gate #11
21	Entry / Exit Gate
22	" " #12
23	
24	
25	
26	
27	
28	

2MM

Picture 18: C04 Foggy Bottom – Disconnect Switch ‘PANELS 1MM & 2MM FED FROM PANEL M CIR.15’



Picture 19: C04 Foggy Bottom – Emergency Panel MEE in room C204



Picture 20: C04 Foggy Bottom – Emergency Panel MEE in room C204



Picture 21: C04 Foggy Bottom – Emergency Panel MEE in room C204 – Panel schedule

1	EMERG. Lts. ENT Esc Well Lights
2	Emergency Lights Under Mezz.
3	EMERG. ENT ESC Heat Contact
4	Elevator 2 Emerg. Circuit
5	Emerg. Lts. Entrance Escalators
6	Elevator 1 Emerg. Circuit
7	Emergency Mezz. Escalators
3	Fire Protection & Surveill. Comm
9	EMERGENCY
10	
11	DELUGE VALVE (12)
12	OUTSIDE FIRE FIGHTER LIGHTS
13	Spare (Kiosk Emerg. Circuit) *
14	SPARE
15	
16	
17	EMERGENCY PASSAGEWAY LIGHTS
18	
19	PWL-MEE
20	
21	CANOPY LIGHTS NORTHSIDE

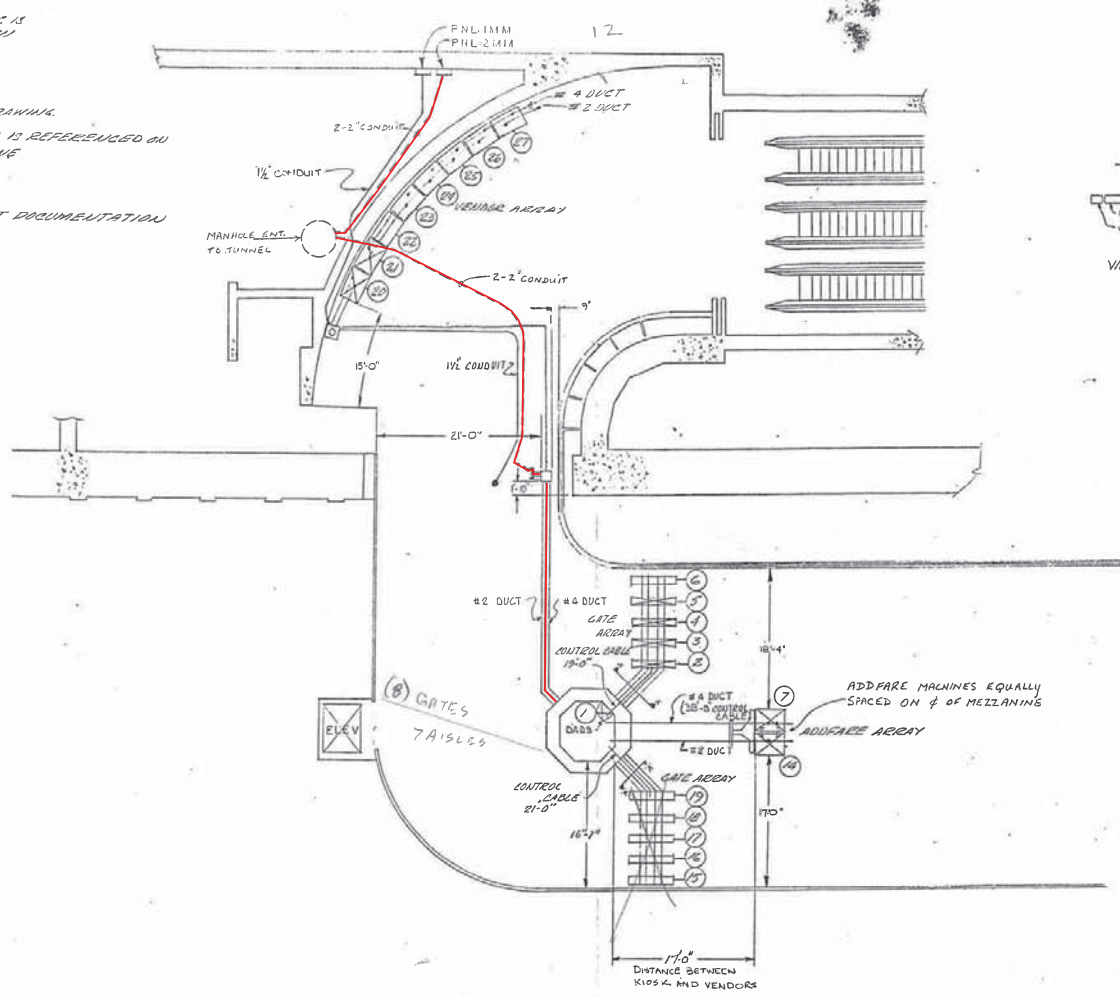
Picture 22: C04 Foggy Bottom – Common trough for multiple panels in room C204



1. INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY WMPATA/DELTA.

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

4. FOR AS BUILT CONDITIONS SEE SHEET 2.
 5. FOR REFERENCE DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS MECHANICAL.



REVISIONS		
DESCRIPTION	DATE	APVD
AS BUILT DRAWING REVISION A	7-13-79	CLB

Pre-Inspection Field Verification 12/11/2014

-1 INSTALLATION PLAN
 (AS BUILT CONDITION)

WASHINGTON METROPOLITAN
 AREA TRANSIT AUTHORITY

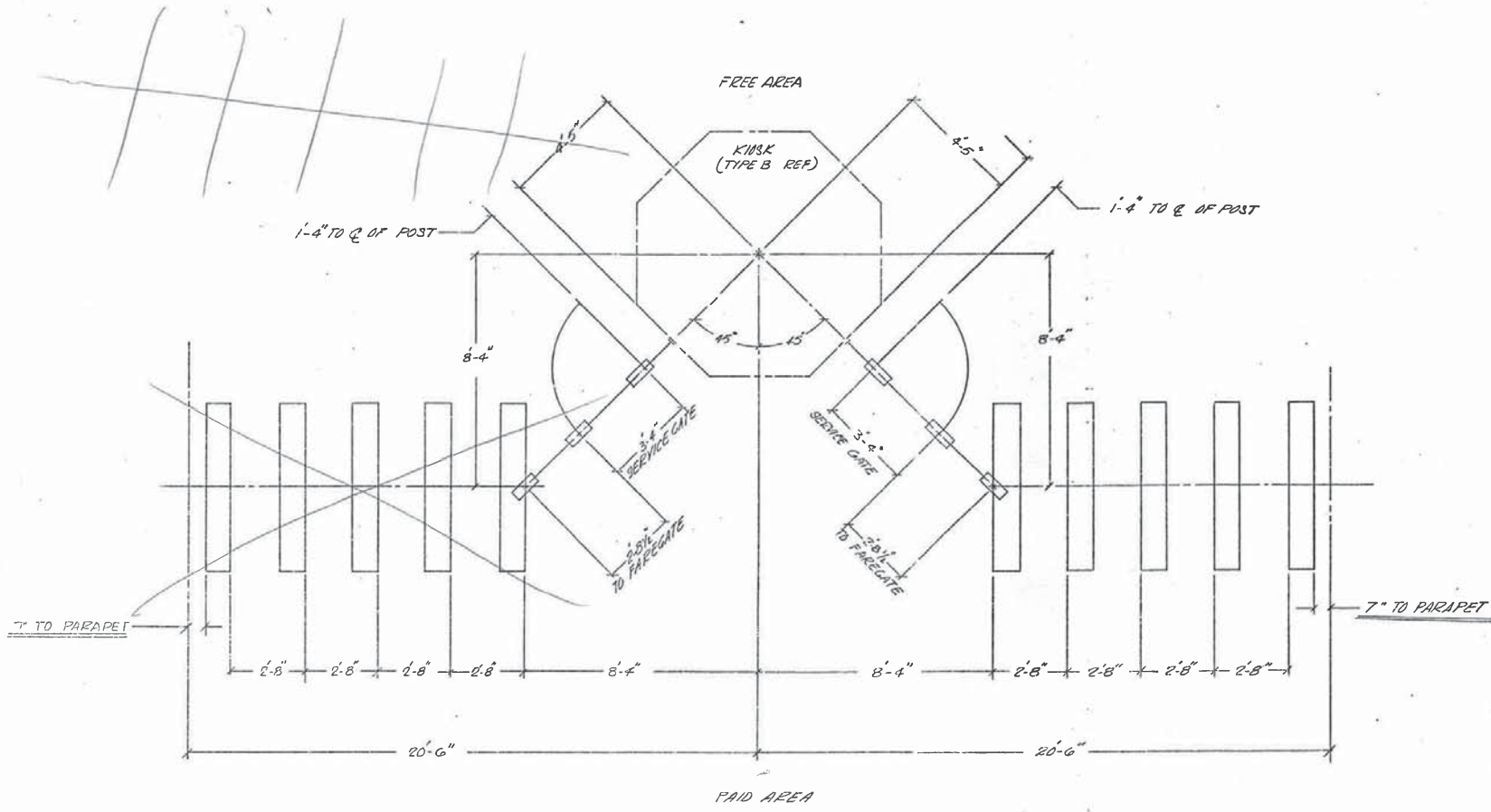
CONTRACT NUMBER 2 F 007A		 <small>A DIVISION OF CUBIC CORPORATION</small> <small>3600 KEARNY MESA ROAD • POST OFFICE BOX 80787 • SAN DIEGO, CA 92138</small>	
FULL _____ DESIGN _____ CHECK _____ DRAWN _____		FOGGY BOTTOM STATION AFC MACHINES	
DESIGN ACTIVITY APPROVAL <i>[Signature]</i>	SIZE D	DRAWING NUMBER 726-0378	REV 40
APPROVED 7	SCALE: 1/4" = 1'	SHEET 1 OF 1	

8 7 6 5 4 3 2 1

NOTES: UNLESS OTHERWISE SPECIFIED

REVISIONS			
ZONE/LTR	DESCRIPTION	DATE	APVD

Pre-Inspection Field Verification 12/11/2014



THESE ARE AS BUILT DIMENSIONS PER WIMATA 1-28-76 DWG NO. AP-22007A-106-1-1

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL ON DECIMALS .XX ± .03 XXX ± .010 ± .30'		CONTRACT NUMBER		 <small>A Subsidiary of Cubic Corporation</small> 1600 N. SAN ANTONIO MESA ROAD • POST OFFICE BOX 80787 • SAN DIEGO CA 92178																							
UNLESS OTHERWISE SPECIFIED HOLE TOLERANCES ARE		<table border="1"> <tr><td>FILE</td><td></td></tr> <tr><td>MAINT</td><td></td></tr> <tr><td>FIELD</td><td></td></tr> <tr><td>DESIGN</td><td></td></tr> <tr><td>CHECK</td><td></td></tr> <tr><td>REWORK</td><td></td></tr> </table>		FILE		MAINT		FIELD		DESIGN		CHECK		REWORK		FOGGY BOTTOM STATION											
FILE																											
MAINT																											
FIELD																											
DESIGN																											
CHECK																											
REWORK																											
<table border="1"> <thead> <tr> <th>HOLE DIA</th> <th>TOLERANCES</th> </tr> </thead> <tbody> <tr> <td>.0135 THRU .125</td> <td>+ .004 - .001</td> </tr> <tr> <td>.128 THRU .250</td> <td>+ .005 - .001</td> </tr> <tr> <td>.250 THRU .500</td> <td>+ .006 - .001</td> </tr> <tr> <td>.501 THRU .750</td> <td>+ .008 - .001</td> </tr> <tr> <td>.751 THRU 1.000</td> <td>+ .010 - .001</td> </tr> </tbody> </table>		HOLE DIA	TOLERANCES	.0135 THRU .125	+ .004 - .001	.128 THRU .250	+ .005 - .001	.250 THRU .500	+ .006 - .001	.501 THRU .750	+ .008 - .001	.751 THRU 1.000	+ .010 - .001	DESIGN ACTIVITY APPROVAL APPROVED		<table border="1"> <tr> <th>SIZE</th> <th>CODE</th> <th>IDENT NO.</th> <th>DRAWING NUMBER</th> <th>REV</th> </tr> <tr> <td>D</td> <td>94987</td> <td>926-0311</td> <td></td> <td>1</td> </tr> </table>		SIZE	CODE	IDENT NO.	DRAWING NUMBER	REV	D	94987	926-0311		1
HOLE DIA	TOLERANCES																										
.0135 THRU .125	+ .004 - .001																										
.128 THRU .250	+ .005 - .001																										
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.501 THRU .750	+ .008 - .001																										
.751 THRU 1.000	+ .010 - .001																										
SIZE	CODE	IDENT NO.	DRAWING NUMBER	REV																							
D	94987	926-0311		1																							
SCALE		SHEET 2 OF 2																									

D
C
B
1151-0311

Pre-Inspection Field
Verification 12/11/2014

EXISTING PANEL "2MM" ✓										
AMPERES: 225		VOLTS: 120/208		MOUNTING: SURFACE						
MAINS: 200A MCB		PHASE: 3		LOCATION: ROOM C204 ✓						
RATING: 10K AIC		WIRE: 4		SECTION: 1 OF 1						
LOAD DESCRIPTION	KVA	AMP	POLE	NO	CKT.	NO	POLE	AMP	KVA	LOAD DESCRIPTION
SPACE	0.0	-	-	1	A	2	3	200	0.0	EXISTING MAIN
SPACE	0.0	-	-	3	B	4	-	-	0.0	
SPACE	0.0	-	-	5	C	6	-	-	0.0	
EXISTING LIGHTS PASSAGEWAY	0.8	20	1	7	A	8	1	20	0.8	EXIST LIGHTS UNDER MEZZANINE
EXISTING LIGHTS PASSAGEWAY	0.8	20	1	9	B	10	1	20	0.8	EXIST LIGHTS UNDER MEZZANINE
EXISTING LIGHTS PASSAGEWAY	0.8	20	1	11	C	12	1	20	0.8	EXIST LIGHTS UNDER MEZZANINE
EXISTING LIGHTS PASSAGEWAY	0.8	20	1	13	A	14	1	20	0.8	ELEVATOR #1 SIGNAL LIGHTS
EXISTING LIGHTS PASSAGEWAY	0.8	20	1	15	B	16	1	20	0.8	EXIST. LIGHTS PASSAGEWAY (MAP)
EXISTING LIGHTS PASSAGEWAY	0.8	20	1	17	C	18	1	20	0.8	EXIST LIGHTS 'C'
1 NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	19	A	20	3	20	1.0	EXISTING CIRCUIT
1&2 SPARE (KIOSK)	0.0	20	1	21	B	22	-	-	1.0	
1&2 SPARE (KIOSK)	0.0	20	1	23	C	24	-	-	1.0	
EXISTING MAP BOARD LIGHTS	1.0	20	3	25	A	26	-	-	0.0	SPACE
	1.0	-	-	27	B	28	-	-	0.0	SPACE
	1.0	-	-	29	C	30	1	20	0.8	EXISTING ENTRY/EXIT GATE
EXISTING VENDOR	0.8	20	1	31	A	32	1	20	0.8	EXISTING ENTRY/EXIT GATE
EXISTING VENDOR	0.8	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. PROVIDE THREE (3) NEW 20A, 1P CB IN EXISTING SPACE #19, #21, #23 (NEW CB'S SHALL MATCH EXISTING CB'S) CONNECT NEW FEEDERS TO THESE CIRCUIT BREAKERS.
2. CB TO BE RESERVED FOR FUTURE AFC.
3. BREAKERS ARE IN SPACE 19, 21 & 23 BUT CIRCUIT LABELS IN ACTUAL PANEL ARE 13, 15 & 17.


LOAD SUMMARY		
LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	9.6 x 50%	4.8 KVA
MISC APPLIANCES	0.0 x 100%	0.0 KVA
LARGEST MOTOR	0.0 x 125%	0.0 KVA
MOTORS	0.0 x 100%	0.0 KVA
HEAT	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	19.6 KVA	TOTAL DEMAND KVA 14.8 KVA
		TOTAL DEMAND AMPS 41.1 AMPS

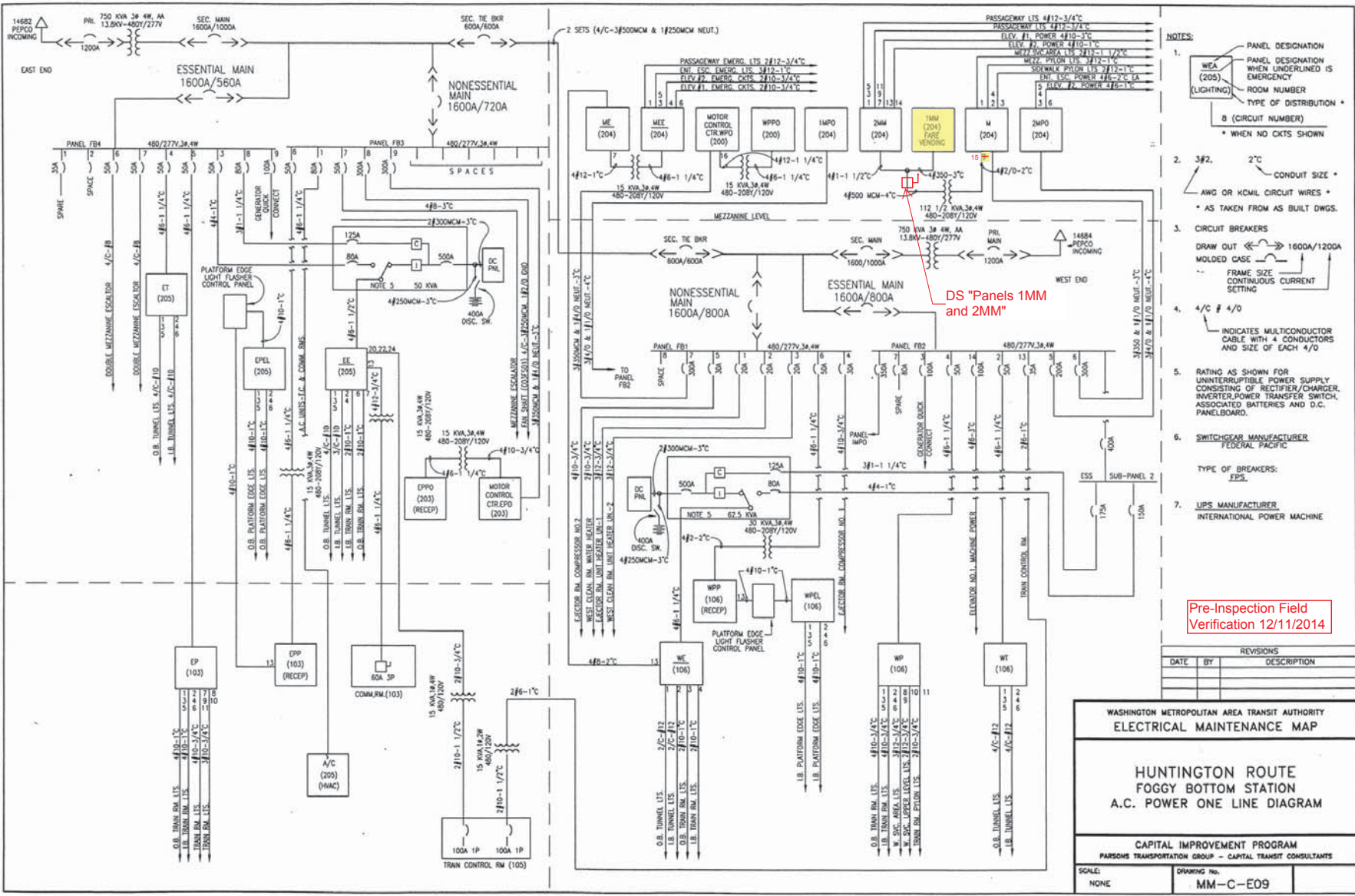
CONNECTED LOAD PHASE SUMMARY	
PHASE A:	7.6 KVA
PHASE B	6.0 KVA
PHASE C:	6.0 KVA

NOTE: A. EXISTING PANEL "2MM" IS FED FROM EXISTING 277/480V, 3Ø, 4W PANEL "M" LOCATE IN ROOM C204, CIRCUIT #8 - 200/3P VIA 112 KVA TRANSFORMER (SEE ATTACHED DWG. MM-C-E09).
B. EXISTING WIRING FED FROM BOTTOM OF PANEL: * 2-1 1/2" C. (WIRING FILL >40%).

Breaker #15 - 200/3P via
Disconnect Switch
"Panels 1MM and 2MM"
via 112 KVA Transformer

CONTINUATION NO
14-FQ10060-CENI-24

DESIGNED C. NGO 11-14 DATE	NUMBER	DESCRIPTION	DATE	BY	DESCRIPTION	WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY DEPARTMENT OF TRANSIT INFRASTRUCTURE AND ENGINEERING SERVICES OFFICE OF INFRASTRUCTURE RENEWAL PROGRAM APPROVED _____	 A Gannett Fleming/Parsons JOINT VENTURE SUBMITTED _____ PROJECT MANAGER	NEW ELECTRONIC PAY PROGRAM (NEPP) IN METRORAIL STATIONS FOGGY BOTTOM PANEL SCHEDULE		SCALE	DRAWINGS NO
DRAWN C. NGO 11-14 DATE					NOT TO SCALE			C04-E-102			
CHECKED B. IDLBI 11-14 DATE											
APPROVED N/A DATE											



- NOTES:**
1. PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY (LIGHTING)
 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 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 INTERNATIONAL POWER MACHINE

Pre-Inspection Field Verification 12/11/2014

REVISIONS	
DATE	DESCRIPTION


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

HUNTINGTON ROUTE
FOGGY BOTTOM STATION
A.C. POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: NONE	DRAWING No. MM-C-E09
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Pre-Inspection Mezzanine Walkthrough Checklist

Date: 01/15/2015		Station Name: Rosslyn - C05		Mezzanine #: 041		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 Rosslyn	Rm 112	Room 112 is AC SWBD room. For LOTO Procedures, steps should be done in this order: 1) Place ATS #2 in Maintenance mode. 2) LOTO 'Enclosed MCB#2'. 3) LOTO Breaker 'XFMR F1-F2' found on 'SWBD Rosslyn'.		
		Source Breaker Name/Number:	XFMR F1-F2	Rm 112			
		Electrical AFC Panel Name/Number:	F2	Rm C304			
<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 type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/> Other Access/Support:			Straight shot. No visible handholes.		
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access?	NO		All conduit/ducts on one level.		
		Identified Conduit/Duct Transition to mezzanine level?	YES				
Emergency Power Verification							
Check	Task	Equipment		Room ID	Notes		
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:	ATS #2	Rm 112	Emergency feed to ATS #2 is enclosed MCB #2.		
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number:	Kiosk Panel (Not labeled)	Kiosk			
		Source Breaker Name/Number:	Breaker #2	Kiosk			
		Panel Name/Number:	Emergency Power Faregates				
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:		Tino Sahoo					
Signature:							
Date:		1/15/2015					

Picture 1: C05 Rosslyn – Handholes in mezzanine on paid side



Picture 2: C05 Rosslyn – No handholes in mezzanine on free side



Picture 3: C05 Rosslyn – SWBD breaker for XFMR F1-F2 in room 112



Picture 4: C05 Rosslyn – AFC Panel F2 in room C304



Picture 5: C05 Rosslyn – AFC Panel F2 in room C304, Panel schedule

"R-2"

WESTINGHOUSE F2

CIRCUIT DIRECTORY

1	Open Mach.	2	ATM Mach.
3	ADD SAFE MACH.	4	" " "
5	FIRE CONTROL (EV)	6	" " "
7	" " "	8	" " "
9	" " "	10	" " "
11	" " "	12	" " "
13	" " "	14	" " "
15	" " "	16	" " "
17	" " "	18	WTS OF EL
19	Spare	20	SPARE KIOSK HEAT/AC
21		22	
23		24	
25		26	
27		28	REC BELOW PANEL
29		30	
31		32	
33		34	
35		36	
37		38	
39		40	

Picture 6: C05 Rosslyn – AFC Panel F1 in room C304



Picture 7: C05 Rosslyn – AFC Panel F1 in room C304, Panel schedule

WESTINGHOUSE
CIRCUIT DIRECTORY **F1**

1	Gate 10	2	Gate 11
3	" 12	4	" 13
5	" 14	6	14 ENTRY
	" 18	8	19 "
	" 20		" "
11	" 22	12	Fare Card 31
13	" 24	14	Paid Area Mach. 32
15	" 26	16	USPS MACHINE 33
17	" 28	18	FARE CARD 34
19	" 30	20	KIOSK A.C. 35
21	" 32		Spare 36
23	" 34		Spare 37
25	" 36		Spare 38
27	" 38		Spare 39
29	NEW GATE		Spare 40
31	TV SCARR		
33			
35			
37			
39			

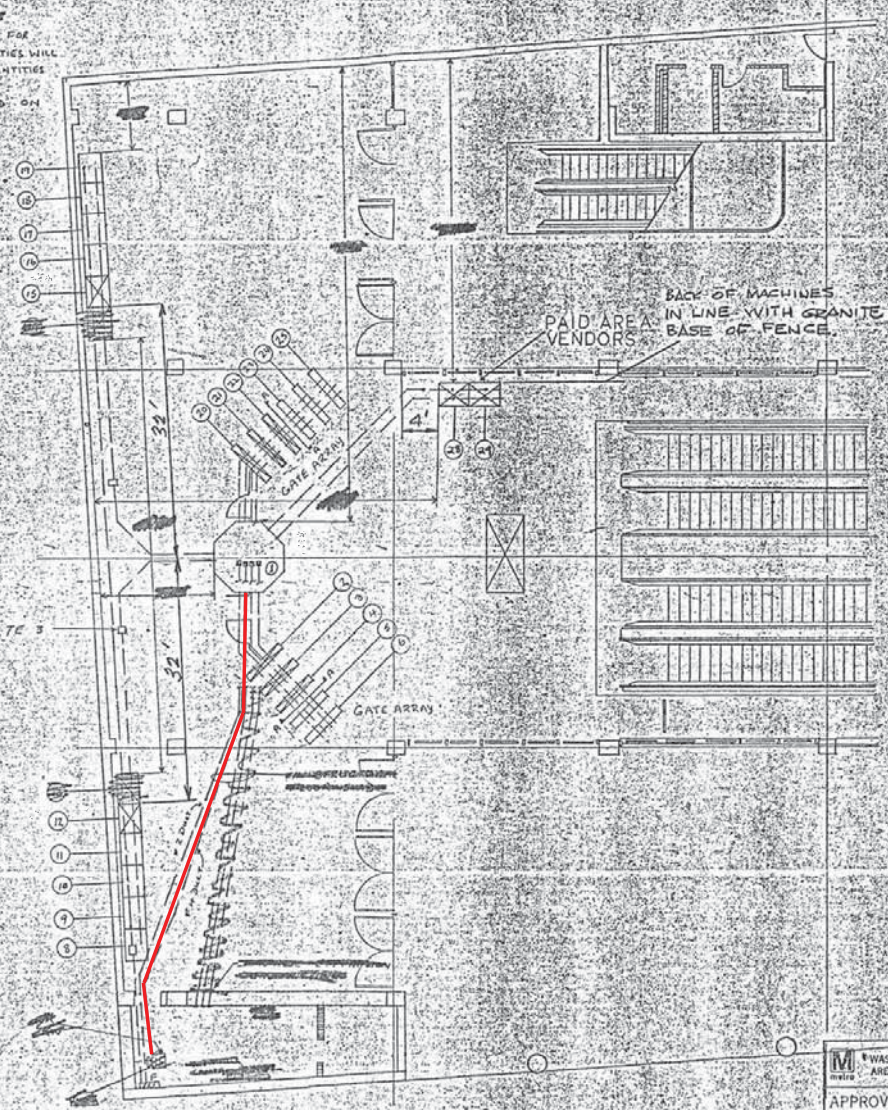
Pictures 8&9: C05 Rosslyn – Shared trough for panels F1 & F2 in room C304



Pre-Inspection Field Verification 1/15/2015

NOTE

- ① ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO CUBIC WESTERN DATA BY WMATA
- ② INITIAL MACHINE INVENTORY IS DEPICTED ON THIS DWG. PEDESTALS FOR VENDORS AND BASEPLATES FOR FIRE GATES FOR INITIAL QUANTITIES WILL BE INSTALLED DURING SITE PREPARATION FOR MIN. OPERATION QUANTITIES. INITIAL QUANTITIES WERE GIVEN TO CWD ON 5/1/15.
- ③ THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFERENCED ON THIS DRAWING BY THE 'X' DRAWN THRU THE MACHINE.
- ④ FOR AS-BUILT CONTINUATION SEE DRAWING "A" INST. PLAN.
- ⑤ FOR REFERENCE DRAWINGS SEE SUPPORT DOCUMENT PACKAGE FOR THIS MEZZANINE.



Straight shot. No visible handholes.



M WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 APPROVED AS CORRECTED
 RESUBMITTAL REQUIRED
 Approval Does Not Relieve the Contractor of the Responsibility for the Accuracy of this Document or for Full Compliance with the Contract Documents.
 BY: *Patrick S. Brune*
 DATE: 2-25-77

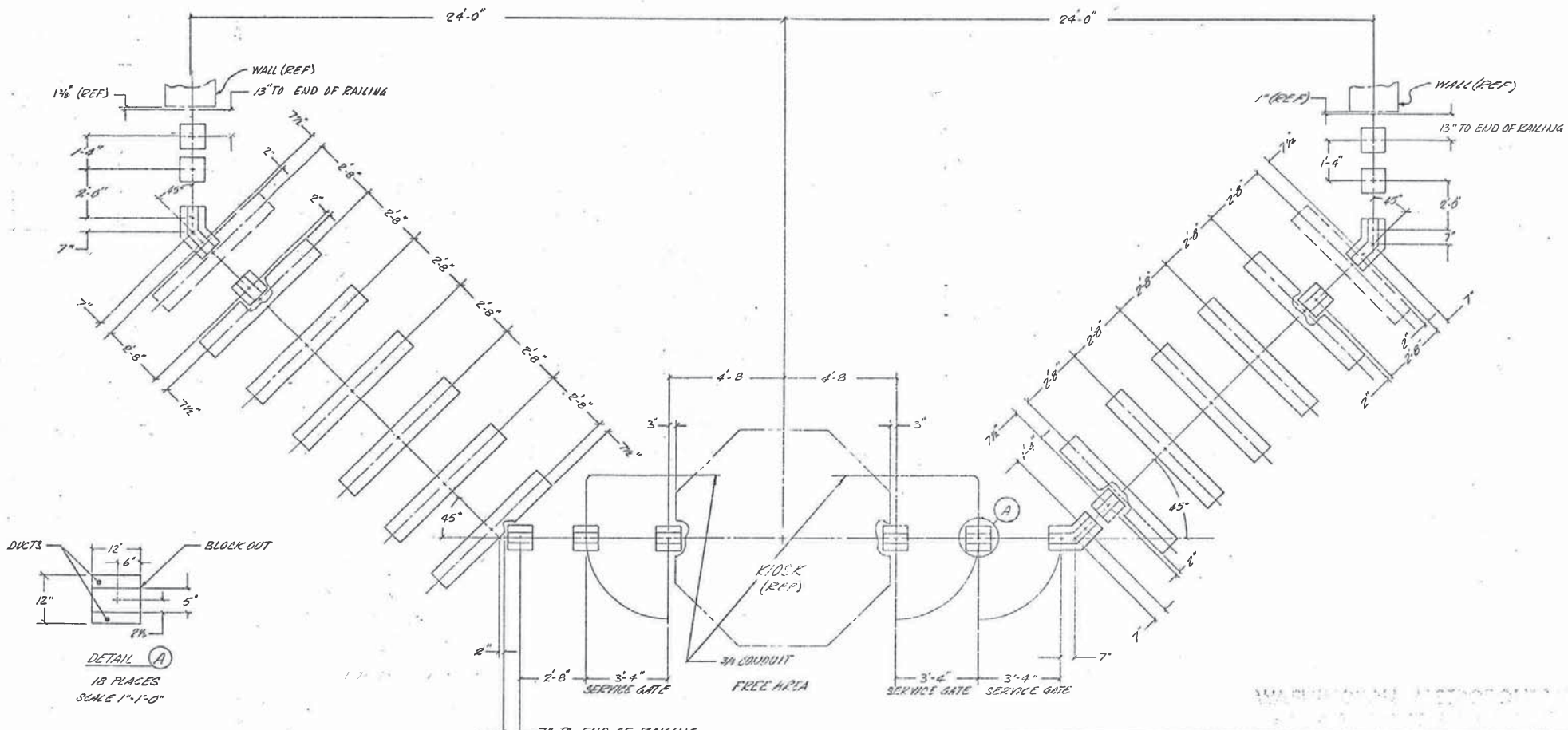
WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY CONTRACT NUMBER: 22007		CUBIC WESTERN HUNTINGDON BLVD. ROSSELAND ST. AFC MACHINES (4)
ALL: _____ DESIGN: _____ CHECK: _____ DRAWN: _____	DESIGN ACTIVITY APPROVAL: _____ SIZE: _____ DATE: _____	DRAWING: _____ 728

926-1111

NOTES: UNLESS OTHERWISE SPECIFIED

REVISIONS		DATE	APVD
ZONE/LTR	DESCRIPTION		
A	AS BUILT	1/15/12	AWC

Pre-Inspection Field Verification 1/15/2015



-1

UNLESS OTHERWISE SPECIFIED LINEAR DIMENSIONS ARE IN INCHES TOL ON DECIMALS ANGLES ± 30°	SPECIFIED HOLE TOLERANCES ARE	CONTRACT NUMBER 22007A	CUBIC-WESTERN DATA SAN DIEGO, CALIFORNIA
HOLE DIA	TOLERANCES	DATE	ROSSLIN STATION
.015 THRU 125	+ .004 - .001	BY	SERVICE GATE & RAILING
125 THRU 250	+ .005 - .001	CHECKED	
250 THRU 500	+ .006 - .001	DESIGNED	
500 THRU 750	+ .008 - .001	DESIGN ACTIVITY APPROVAL	SIZE: 36x48
751 THRU 1000	+ .010 - .001	APPROVED	DRAWING NUMBER: 926-0316
			REV
			SCALE: 1/4"=1'-0"
			SHEET 1 OF 1

WD-7

Pre-Inspection Field
Verification 1/15/2015

EXISTING PANEL "F2" ✓										
AMPERES: 150			VOLTS: 120/208			MOUNTING: SURFACE				
MAINS: 150A MCB			PHASE: 3			LOCATION: ROOM C304 ✓				
RATING: 10K AIC			WIRE: 4			SECTION: 1 OF 1				
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CTKT. NO.	CTKT. NO.	POLE	AMP	KVA	LOAD DESCRIPTION
SPARE	0.8	20	1	1	A - -	2	1	20	0.8	EXISTING VENDOR
SPARE	0.8	20	1	3	- B -	4	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	5	- - C	6	1	20	0.0	SPARE
EXISTING CIRCUIT	2.6	60	2	7	A - -	8	1	20	0.0	SPARE
	1.0	-	-	9	- B -	10	1	20	0.0	SPARE
NEW KIOSK RECEPT. (IT & NEPP)	0.8	20	1	11	- - C	12	1	20	0.0	SPARE
SPARE (KIOSK)	0.0	20	1	13	A - -	14	1	20	0.0	SPARE
SPARE	0.0	20	1	15	- B -	16	1	20	0.0	SPARE
SPARE	0.0	20	1	17	- - C	18	2	20	0.9	EXISTING CIRCUIT
SPARE	0.0	20	1	19	A - -	20	-	-	0.9	
SPACE	0.0	20	1	21	- B -	22	2	20	0.9	EXISTING CIRCUIT
SPACE	0.0	20	1	23	- - C	24	-	-	0.9	
SPARE	0.0	20	1	25	A - -	26	1	20	0.0	SPARE
SPARE	0.0	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	0.8	EXISTING VENDOR
SPACE	0.0	-	-	33	- B -	34	-	-	0.0	SPACE
SPACE	0.0	-	-	35	- - C	36	-	-	0.0	SPACE

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

✓
1
1&2

LOAD SUMMARY

LIGHTS	0.0 x 125%	0.0 KVA
RECEPTACLES, FIRST 10 KVA	10.0 x 100%	10.0 KVA
RECEPTACLES	0.0 x 50%	0.0 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	2.0 x 125%	2.5 KVA
AC	0.0 x 100%	0.0 KVA
WATER HEATING	0.0 x 125%	0.0 KVA
TOTAL CONNECTED LOAD	12.0 KVA	TOTAL DEMAND KVA 12.5 KVA
		TOTAL DEMAND AMPS 34.7 AMPS

CONNECTED LOAD PHASE SUMMARY

PHASE A:	5.9 KVA
PHASE B:	2.7 KVA
PHASE C:	3.4 KVA

NOTES: A. EXISTING PANEL "F2" IS FED FROM 112.5KVA TRANSFORMER WHICH IS SUPPLIED FROM ATS #2. ATS #2 NORMAL FEED IS SUPPLIED FROM 277/480V, 3Ø, 4W EXISTING SWBD "ROSSLYN" LOCATED IN AC SWBD RM. 112, CIRCUIT (605-BKR-5603-E) 150/3P. ATS #2 EMERGENCY FEED IS SUPPLIED FROM 277/480V, 3Ø, 4W EXISTING "GENERAL DISTRIBUTION SWBD" LOCATED IN SOUTH AC SWBD RM. 112, CIRCUIT #3 (SEE ATTACHED DWG. MM-C-E21).

B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 6-2" C. (WIRING FILL >40%).
 * 2-1 1/2" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-1/2" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM RIGHT SIDE OF PANEL BY:
 * 1-1 1/2" C. (WIRING FILL >40%).

Breaker
'XFMR F1-F2'

CONTRACT NO.
14-FQ10060-CENI-24

DESIGNED	C. NGO	DATE	REFERENCE DRAWINGS		REVISIONS	
			NUMBER	DESCRIPTION	DATE	BY
DRAWN	C. NGO	11-14				
CHECKED	B. IDLER	11-14				
APPROVED	N/A	DATE				

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

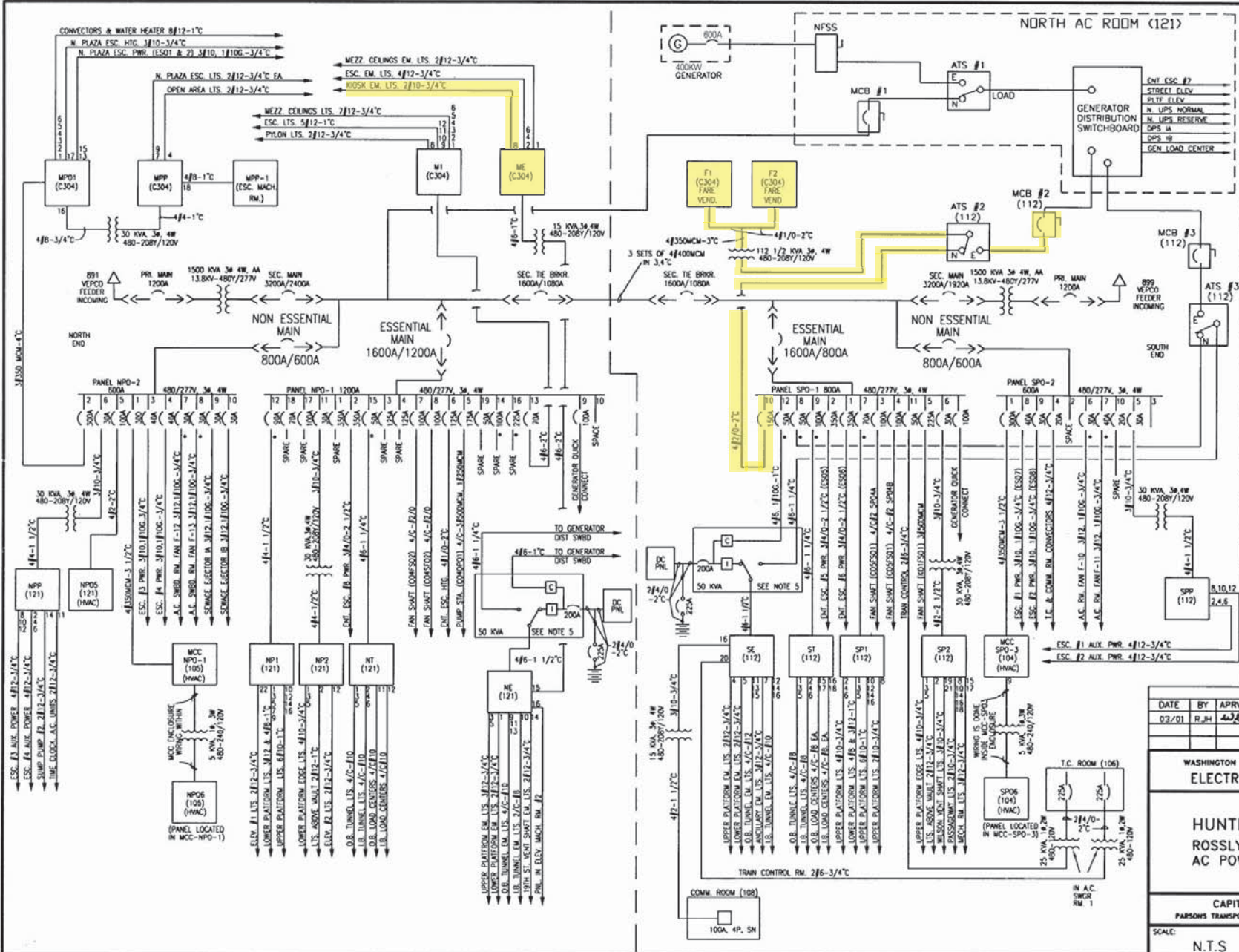
GFP A Gannett Fleming/Parsons JOINT VENTURE

APPROVED _____ SUBMITTED _____ PROJECT MANAGER

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

SCALE: NOT TO SCALE
 DRAWING NO.: C05-E-102

DESIGNED _____ DATE _____
 DRAWN _____ DATE _____
 CHECKED _____ DATE _____
 APPROVED _____ DATE _____



- NOTES:
1. PANEL DESIGNATION WHEN UNDERLINED IS EMERGENCY LIGHTING
 2. 3/2, 2" CONDUIT SIZE *
AWG OR KCMIL CIRCUIT WIRES *
* AS TAKEN FROM AS BUILT DWGS.
 3. CIRCUIT BREAKERS
DRAW OUT \leftarrow 1600A/1200A
MOLDED CASE \leftarrow 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. * INDICATES BREAKER FUSED WITH CURRENT LIMITER
 7. SWITCHGEAR MANUFACTURER: WESTINGHOUSE
TYPE OF BREAKERS: DS
 8. UPS MANUFACTURER: INTERNATIONAL POWER MACHINE

Pre-Inspection Field Verification 1/15/2015

REVISIONS			
DATE	BY	APRVD	DESCRIPTION
03/01	R_JH	[Signature]	ADDED EMERGENCY GENERATOR


WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
ELECTRICAL MAINTENANCE MAP

HUNTINGTON ROUTE
 ROSSLYN STATION (C05)
 AC POWER ONE LINE DIAGRAM

CAPITAL IMPROVEMENT PROGRAM
 PARSONS TRANSPORTATION GROUP - CAPITAL TRANSIT CONSULTANTS

SCALE: N.T.S. DRAWING NO: MM-C-E21

Pre-Inspection Mezzanine Walkthrough Checklist

Date: 01/15/2015		Station Name: Rosslyn - C05 (NEW)		Mezzanine #: 113		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:	LM-MCC	Rm W108	Room W108 is mechanical room. Room W110 is electrical room.		
		Source Breaker Name/Number:	Breaker 'XFMR TF-1'	Rm W108			
		Electrical AFC Panel Name/Number:	F1	Rm W110			
<input checked="" type="checkbox"/>	Verify if disconnect switch is connected to the AFC electrical power panel. Low or High voltage SMNT/POWR escorts requirements?	Disconnect Name/Number:					
		SMNT/POWR escorts:	HIGH Voltage				
<input checked="" type="checkbox"/>	Check if there is a shared raceway between AFC Panel and Kiosk and identify additional source panels to be de-energized.	Do AFC Panel loads feed into a shared raceway e.g. trench or trough? If Yes, specify source panels in notes.	NO				
<input checked="" type="checkbox"/>	Identify the assumed pathway of duct / conduit, the location of the handholes, manholes and boxes and accessibility or special escort requirement?	PLNT <input checked="" type="checkbox"/> COMM / IT <input type="checkbox"/> ELES <input type="checkbox"/> RAIL <input type="checkbox"/> CMNT <input type="checkbox"/>					
		Other Access/Support:					
<input checked="" type="checkbox"/>	Identify handhole or manhole access requirement.	Required PLNT Mason for handhole/manhole access?	YES (see notes)		Conduit/ducts on multiple levels. Power duct run from Kiosk to AFC Panel is approx. 70'.		
		Identified Conduit/Duct Transition to mezzanine level?	YES				
Emergency Power Verification							
Check	Task	Equipment		Room ID	Notes		
<input checked="" type="checkbox"/>	Verify if AFC electrical panel is connected to an Automatic Transfer Switch (ATS).	ATS Name/Number:					
<input checked="" type="checkbox"/>	Verification of Kiosk Emergency Panel(s) (KE, KES, KESS, etc)	Source Panel Name/Number:					
		Source Breaker Name/Number:					
		Panel Name/Number:					
Notes and Discrepancies:							
Sign Off		GFP Representative			WMATA PRGM		
Name:	Tino Sahoo						
Signature:							
Date:	1/15/2015						

Pictures 1&2: C05 Rosslyn (NEW) – Handholes in mezzanine



Picture 3: C05 Rosslyn (NEW) – Handholes in mezzanine



Picture 4: C05 Rosslyn (NEW) – Emergency Panel KN and Panel KE in Kiosk



Pictures 5&6: C05 Rosslyn (NEW) – Emergency Panel KN and Panel KE in Kiosk, Panel schedules

PANELBOARD KN

SOURCE: PANEL F-1

DATE: 11/05/2013

VOLTAGE: 120/208

CIR	LOAD	CIR	LOAD
1	MAIN	2	SPARE
3	MAIN	4	SPARE
5	MAIN	6	SPARE
7	RECEPTACLE IN CABINET	8	SPARE
9	RECEPTACLE IN CABINET	10	RECEPTACLE IN CABINET
11A	VOICE CONTROL	12A	FLOOR RECEPTACLE
11B	RECEPTACLE IN CABINET	12B	RECEPTACLE IN CABINET
13A	VIDEO SCREEN	14A	TELEPHONE
13B	RECEPTACLE IN CABINET	14B	RECEPTACLE IN CABINET

TRULAND PG 1
TRANSFORMATION

PANELBOARD KE

SOURCE: PANEL LME

DATE: 11/5/2013

VOLTAGE: 120/208

CIR	LOAD	CIR	LOAD
1	MAIN	8A	SOC
3	MAIN	8B	AC CEILING
5	MAIN	10A	AC CEILING
7A	CEILING RECEPTACLE	10B	WALL HEATER
7B	AC CONDENSER	12A	WALL HEATER
9A	AC CONDENSER	12B	COMPUTER
9B	LIGHTS		

TRULAND PG 1
TRANSFORMATION

Picture 7: C05 Rosslyn (NEW) – AFC Panel F1 in room W110



Picture 8: C05 Rosslyn (NEW) – AFC Panel F1 in room W110, Conduits and troughs above panel



Picture 9: C05 Rosslyn (NEW) – AFC Panel F1 in room W110, Ducts below panel



Picture 10: C05 Rosslyn (NEW) – AFC Panel F1 in room W110, Panel schedule

PANELBOARD PANEL F1		DATE: 8/15/2013	
SOURCE: PANEL LM-MCC		VOLTAGE: 120/208V 3 PHASE	
CIR	LOAD	CIR	LOAD
1	PANEL KIOSK NORMAL	2	AFC
3	PANEL KIOSK NORMAL	4	AFC
5	PANEL KIOSK NORMAL	6	AFC
7	AFC	8	AFC
9	AFC	10	AFC
11	AFC	12	AFC
13	AFC	14	AFC
15	AFC	16	AFC
17	AFC	18	AFC (TDM#4)
19	AFC	20	PIDS / EAS MAP CASE
21	SPARE	22	NORTH MAP CASE
23	SPARE	24	SPARE
25	SPARE	26	SPARE
27	SPARE	28	SPARE
29	SPARE	30	SPARE
31	SPARE	32	SPARE
33	SPARE	34	SPARE
35	SPARE	36	SPARE
37	SPARE	38	SPARE
39	SPARE	40	SPARE
41	SPARE	42	SPARE

TRULAND
TRANSPORTATION

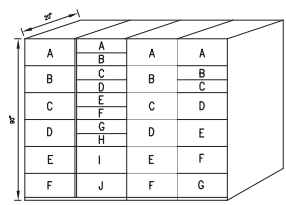
PG 1

MOTOR CONTROL CENTER: LM-WCS
 600 AMPS, 480/277V, 3Ø, 4W, GND BUS
 BUS BRANCING: 50,000 AMPS RMS SYM.

LOCATION: MECHANICAL ROOM (LOWER MEZZAMINE)
 SHORT CIRCUIT RATING: 50,000 AMPS RMS SYM
 ENCLOSURE TYPE: NEMA 12

Pre-Inspection Field
 Verification 1/15/2015

SEC. NO.	ITEM NO.	CIRCUIT BREAKER			MCP CONT. RATING AMP.	STARTER		CON-NECTED LOAD KVA	HP OR KW	DESCRIPTION	CONTROL DIAGRAM DWG. NO.	ELEVATION				
		POLES	FRAMES AMP.	TRIP AMP.		NEMA SIZE	TYPE					SECTION 1	SECTION 2	SECTION 3	SECTION 4	
1	A	3	150	100	N/A	N/A	N/A	67.2	N/A	AIR COOLED CHILLER-1 (ACC-1)						
	B	3	150	100				N/A	N/A	SPARE						
	C	3	150	100				N/A	N/A	SPARE						
	D	3	150	50				N/A	N/A	SPARE						
	E	N/A	N/A	N/A				N/A	N/A	SPACE						
	F	N/A	N/A	N/A				N/A	N/A	SPACE						
2	A	3			30	1	FVNR		5 HP	AIR CONDITIONER UNIT-1 (ACU-1)						
	B	3			30	1	FVNR	3.0		EUH-1						
	C	3			30	1	FVNR	20.0		DMT						
	D	3			30	1	FVNR	1.33	0.75 HP	ELECTRICAL RM EXHAUST FAN-4 (EF-4)						
	E	3	150	90				34.1	30	PRESSURIZATION FANS (SPF-1 & MPF-1)						
	F	3	150	50				N/A	N/A	SPARE						
	G	3	400	250				162.1	N/A	ELEVATORS 1, 2, & 3						
	H	3	150	45				N/A	N/A	30 KVA TRANSFORMER (TN)						
	I	3	150	110				56.5	N/A	SUMP PUMP CONTROL PANEL (SPCP)						
	J	3	150	100				N/A	N/A	PANELBOARD LM1						
3	A	3			30	1	FVNR	N/A	10 HP	SPARE						
	B	3			30	1	FVNR	N/A	5 HP	SPARE						
	C	3			30	1	FVNR	N/A	5 HP	SPARE						
	D	3			30	1	FVNR	N/A	5 HP	SPARE						
	E	3			30	1	FVNR	6.3	3 HP	EXHAUST FAN (EF-2) FOR FUTURE CONNECTIONS						
	F	3			30	1	FVNR	6.3	3 HP	EXHAUST FAN (EF-3) FOR FUTURE CONNECTIONS						
4	A		N/A	N/A				N/A	N/A	MAIN LUGS						
	B	3			30	1	FVNR	1.7	1 HP	TOILETS EXHAUST FAN-1 (EF-1)						
	C	3						N/A	10 HP	SPARE						
	D	3	150	30						XFMR TF-1						
	E	3	150	30				11.6	10 HP	SEPCP						
	F									SPARE						
	G							N/A	N/A	SPACE						



Room W108 Mechanical room.
 Room W110 Electrical room.

- NOTES:
- TOTAL CONNECTED LOAD 523.5 KVA-630.8 AMPS
 - PROVIDE FUSED CONTROL TRANSFORMER, APPROPRIATE CONTROL DEVICES & INDICATING LIGHTS IN EACH STARTER.
 - ADJUST DOWN INSTANTANEOUS TRIP OF MCP IN FIELD JUST ABOVE MOTORS INRUSH CURRENT TO PROVIDE MAXIMUM MOTOR & GROUND FAULT PROTECTION.

ESTIMATED DEMAND: 378 KVA				
LOAD	KVA			
	CONNECTED	DF	SUMMER	WINTER
VENTILATION	50	70%	35	35
COOLING: MOTORS	67.2	80%	53.8	
HEATING	23	70%		16.2
PUMPS	100	70%	70	70
ELEVATORS	90	50%	45	45
OTHER	193.3	90%	174	174
TOTAL DEMAND:	523.5		378	340.2

CONTRACT NO.

DESIGNED				DATE			
A. FISHEL	4/08						
DRAWN				DATE			
Y. MCFEE	4/08						
CHECKED				DATE			
E. GROSS	4/08						
APPROVED				DATE			
J. RISHER	4/08						

REVISIONS			
DATE	BY	DESCRIPTION	

ARLINGTON VIRGINIA

DEPARTMENT OF ENVIRONMENTAL SERVICES

Transportation Division
 2100 Clarendon Boulevard, Suite 100
 Arlington, VA 22201



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY

DEPARTMENT OF OPERATIONS SERVICES
 OFFICE OF ENGINEERING SERVICES

APPROVED [Signature]

PROJECT MANAGER [Signature]

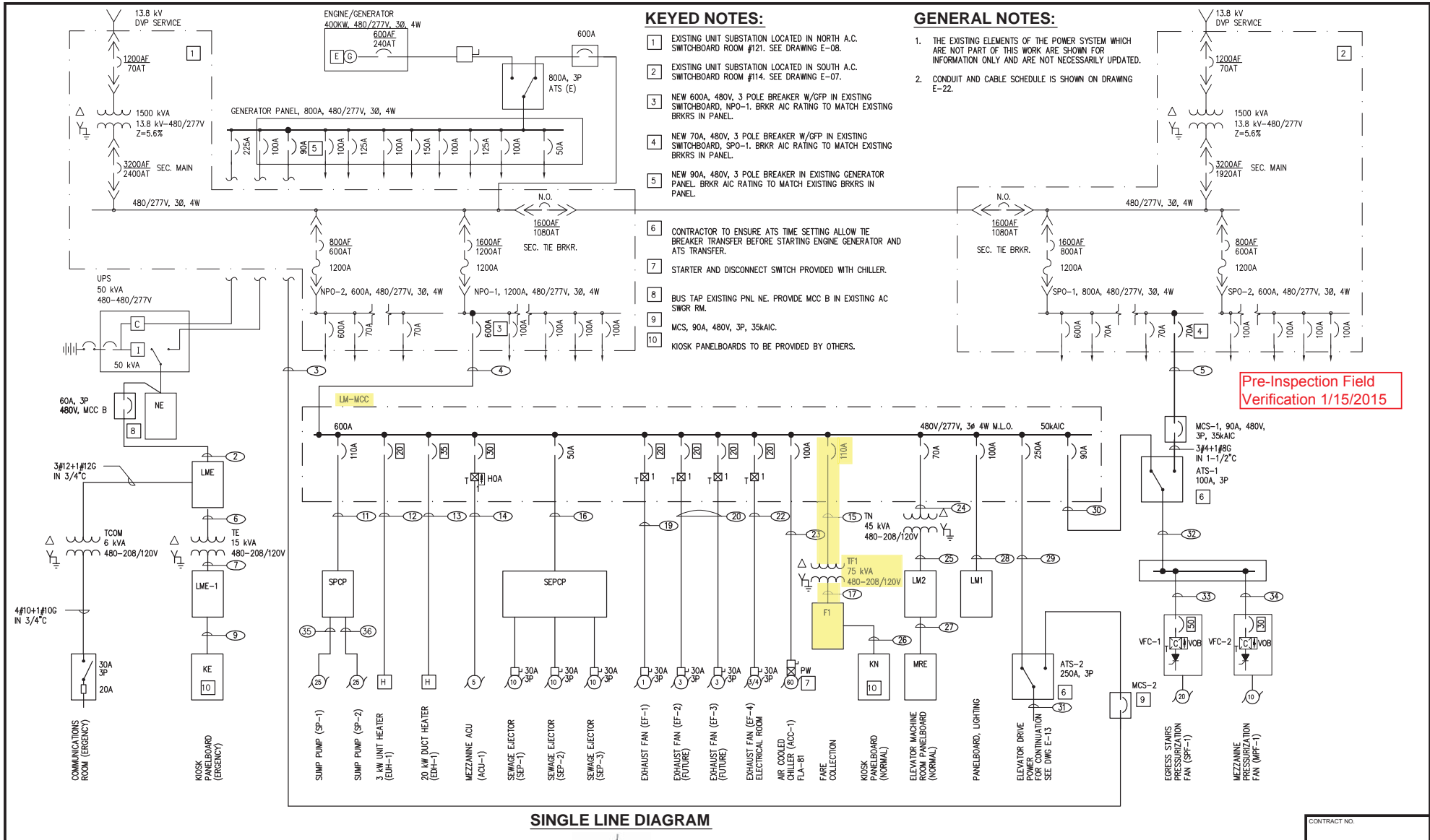
Submitted by: [Signature]

a joint venture of:
 -Parsons Transportation Group Inc.
 -FIS American, Inc.
 -Delon Hampton & Associates, Chartered

ROSSLYN STATION ACCESS
 IMPROVEMENT PROJECT
 PANEL
 SCHEDULE

SCALE: NONE

DRAWING NO. E-21



KEYED NOTES:

- 1 EXISTING UNIT SUBSTATION LOCATED IN NORTH A.C. SWITCHBOARD ROOM #121. SEE DRAWING E-08.
- 2 EXISTING UNIT SUBSTATION LOCATED IN SOUTH A.C. SWITCHBOARD ROOM #114. SEE DRAWING E-07.
- 3 NEW 600A, 480V, 3 POLE BREAKER W/GFP IN EXISTING SWITCHBOARD, NPO-1. BRKR AIC RATING TO MATCH EXISTING BRKRS IN PANEL.
- 4 NEW 70A, 480V, 3 POLE BREAKER W/GFP IN EXISTING SWITCHBOARD, SPO-1. BRKR AIC RATING TO MATCH EXISTING BRKRS IN PANEL.
- 5 NEW 90A, 480V, 3 POLE BREAKER IN EXISTING GENERATOR PANEL. BRKR AIC RATING TO MATCH EXISTING BRKRS IN PANEL.
- 6 CONTRACTOR TO ENSURE ATS TIME SETTING ALLOW THE BREAKER TRANSFER BEFORE STARTING ENGINE GENERATOR AND ATS TRANSFER.
- 7 STARTER AND DISCONNECT SWITCH PROVIDED WITH CHILLER.
- 8 BUS TAP EXISTING PNL NE. PROVIDE MCC B IN EXISTING AC SWGR RM.
- 9 MCS, 90A, 480V, 3P, 35kAIC.
- 10 KIOSK PANELBOARDS TO BE PROVIDED BY OTHERS.

GENERAL NOTES:

1. THE EXISTING ELEMENTS OF THE POWER SYSTEM WHICH ARE NOT PART OF THIS WORK ARE SHOWN FOR INFORMATION ONLY AND ARE NOT NECESSARILY UPDATED.
2. CONDUIT AND CABLE SCHEDULE IS SHOWN ON DRAWING E-22.

SINGLE LINE DIAGRAM

CONTRACT NO.

DESIGNED		DATE	
A. FISHEL	3/08		
DRAWN		DATE	
Y. MCATEE	3/08		
CHECKED		DATE	
E. GROSS	3/08		
APPROVED		DATE	
J. RISHER	3/08		

REVISIONS

DATE	BY	DESCRIPTION

ARLINGTON VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL SERVICES
 Transportation Division
 2100 Clarendon Boulevard, Suite 900
 Arlington, VA 22201



WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 DEPARTMENT OF OPERATIONS SERVICES
 OFFICE OF ENGINEERING SERVICES
 APPROVED *[Signature]*
 SUBMITTED *[Signature]*
 PROJECT MANAGER

ROSSLYN STATION ACCESS IMPROVEMENT PROJECT
 POWER SINGLE LINE DIAGRAM
 SCALE NONE
 DRAWING NO. **E-26**


Pre-Inspection Mezzanine Walkthrough Checklist

Date: 11/18/2014	Station Name: Arlington Cemetery - C06	Mezzanine #: 042	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: N. Dist. PNL; S. Dist. PNL Source Breaker Name/Number: Breaker #1; Breaker #7 Electrical AFC Panel Name/Number: F-1; F-2	Rm C206 Rm C206 Rm 100	S.O. Request: Breaker #1 on source Panel N. Dist. PNL to de-energize AFC Panel F-1. Breaker #7 on source Panel S. Dist. PNL to de-energize AFC Panel F-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: 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: AFC		Exit fare machines AM2972 and AM2974 need to be opened to see if possible handholes are located inside machines.
<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		PLNT requested in case there is handhole inside AFC machine. Power run from Kiosk to AFC Panel is overhead 2" conduit and is 70' long.

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: E Source Breaker Name/Number: Breaker #5 Panel Name/Number: Kiosk Emergency Panel	Rm C206 Rm C206 Kiosk	

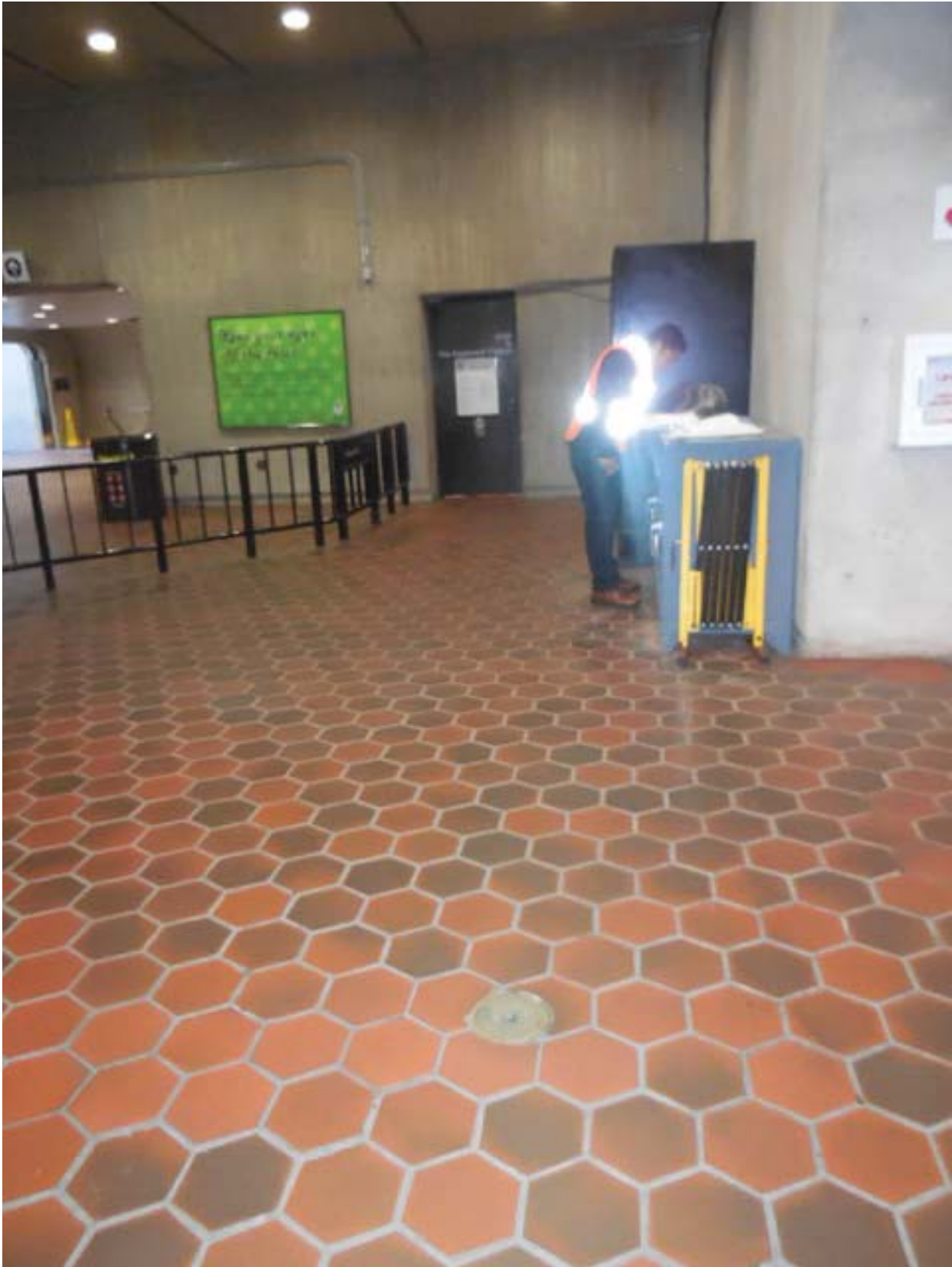
Notes and Discrepancies:

Sign Off	GFP Representative	WMATA PRGM
Name:	Tino Sahoo	
Signature:		
Date:	11/18/2014	

Picture 1: C06 Arlington Cemetery – Handholes in Mezzanine



Picture 2: C06 Arlington Cemetery – Handholes in Mezzanine



Picture 3: C06 Arlington Cemetery – Handholes possibly located under fare-card machines



Pictures 4: C06 Arlington Cemetery – Emergency panel in Kiosk



Pictures 5: C06 Arlington Cemetery – AFC Panel F-1 in Room 100



Picture 6: C06 Arlington Cemetery – AFC Panel F-1 in Room 100



Picture 7: C06 Arlington Cemetery – AFC Panel F-1 in Room 100



Picture 8: C06 Arlington Cemetery – AFC Panel F-1 in Room 100 – Conduits above panel



Picture 9: C06 Arlington Cemetery – AFC Panel F-1 in Room 100 – Conduits below panel



Picture 10: C06 Arlington Cemetery – AFC Panel F-1 in Room 100 – Panel schedule

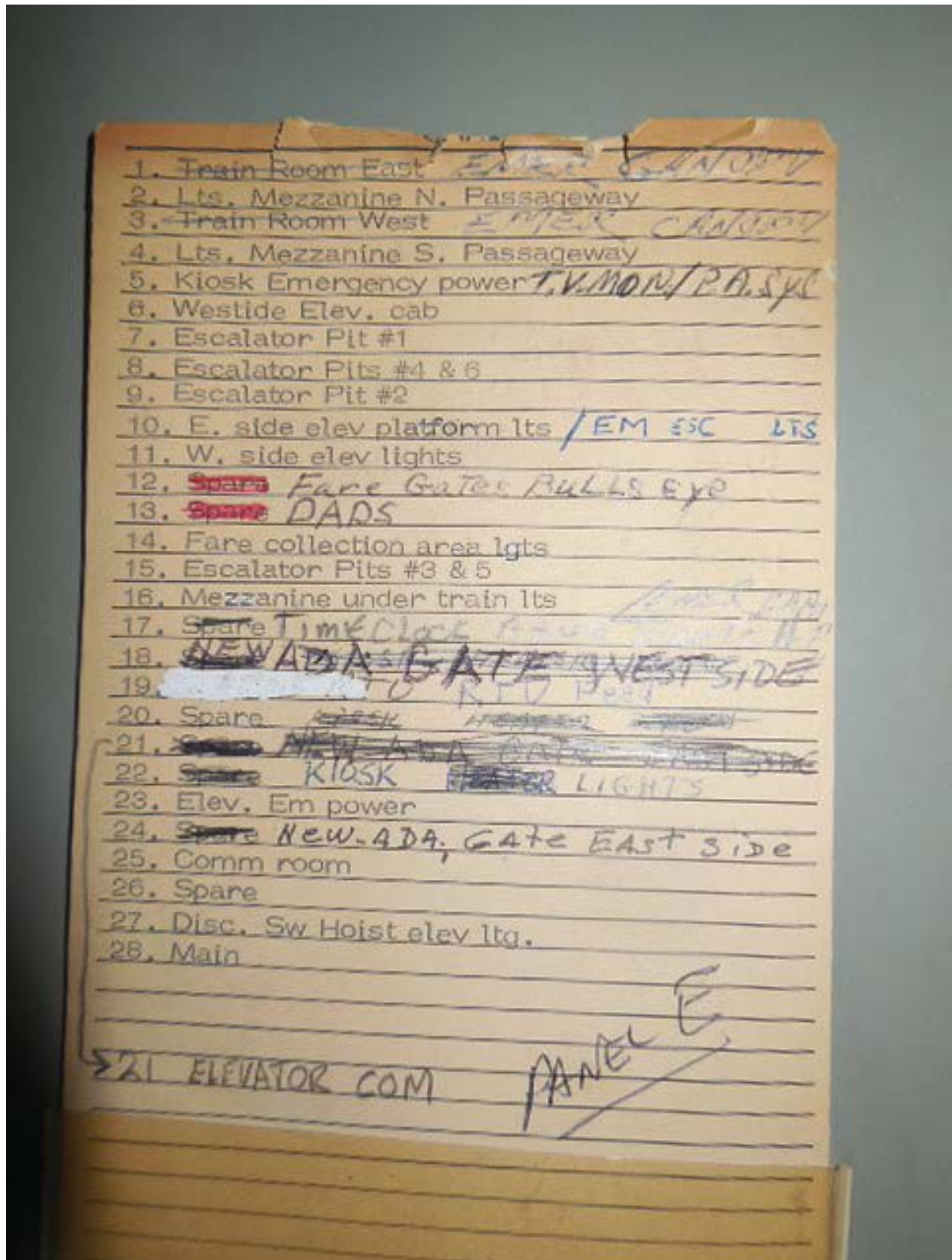
F-1 PANEL

1	Spare
2	Kiosk Roof lights - and Clock
3	Spare
4	COMPUTER REC. IN KIO
5	
6	add here 50
7	KIOSK HEATER
8	
9	KIOSK HEATER
10	add here 51 P. TRAN
11	PIPS MEZZ
12	
13	HALL RECEPTION.
14	
15	HALL RECEPTION.
16	
17	
18	
19	
20	
21	

Picture 11: C06 Arlington Cemetery – Emergency Panel E in Room C206



Picture 12: C06 Arlington Cemetery – Emergency Panel E in Room C206 – Panel schedule



Picture 13: C06 Arlington Cemetery – North Dist. Panel in Room C206



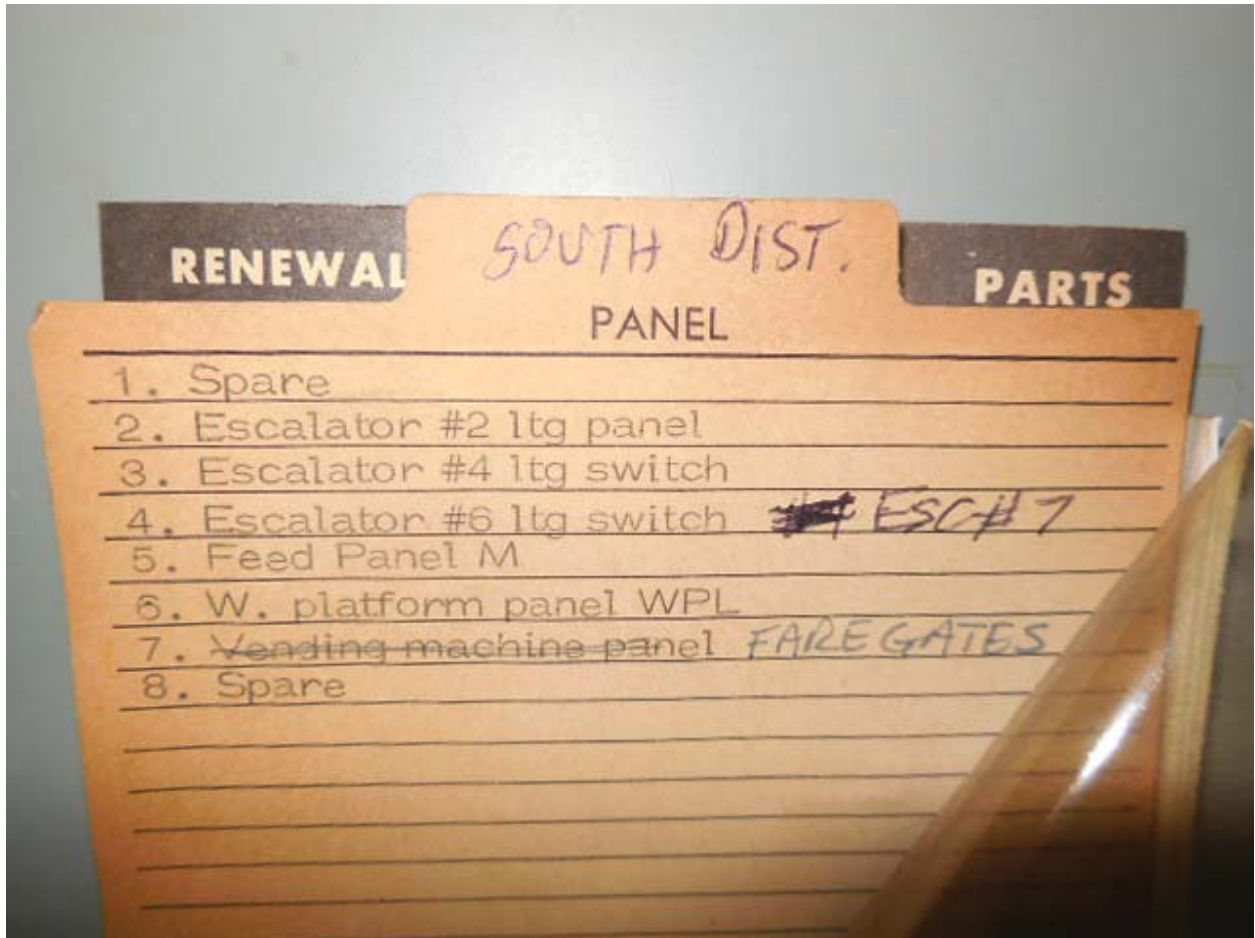
Picture 14: C06 Arlington Cemetery – North Dist. Panel in Room C206 – Breaker 1



Picture 16: C06 Arlington Cemetery – South Dist. Panel in Room C206



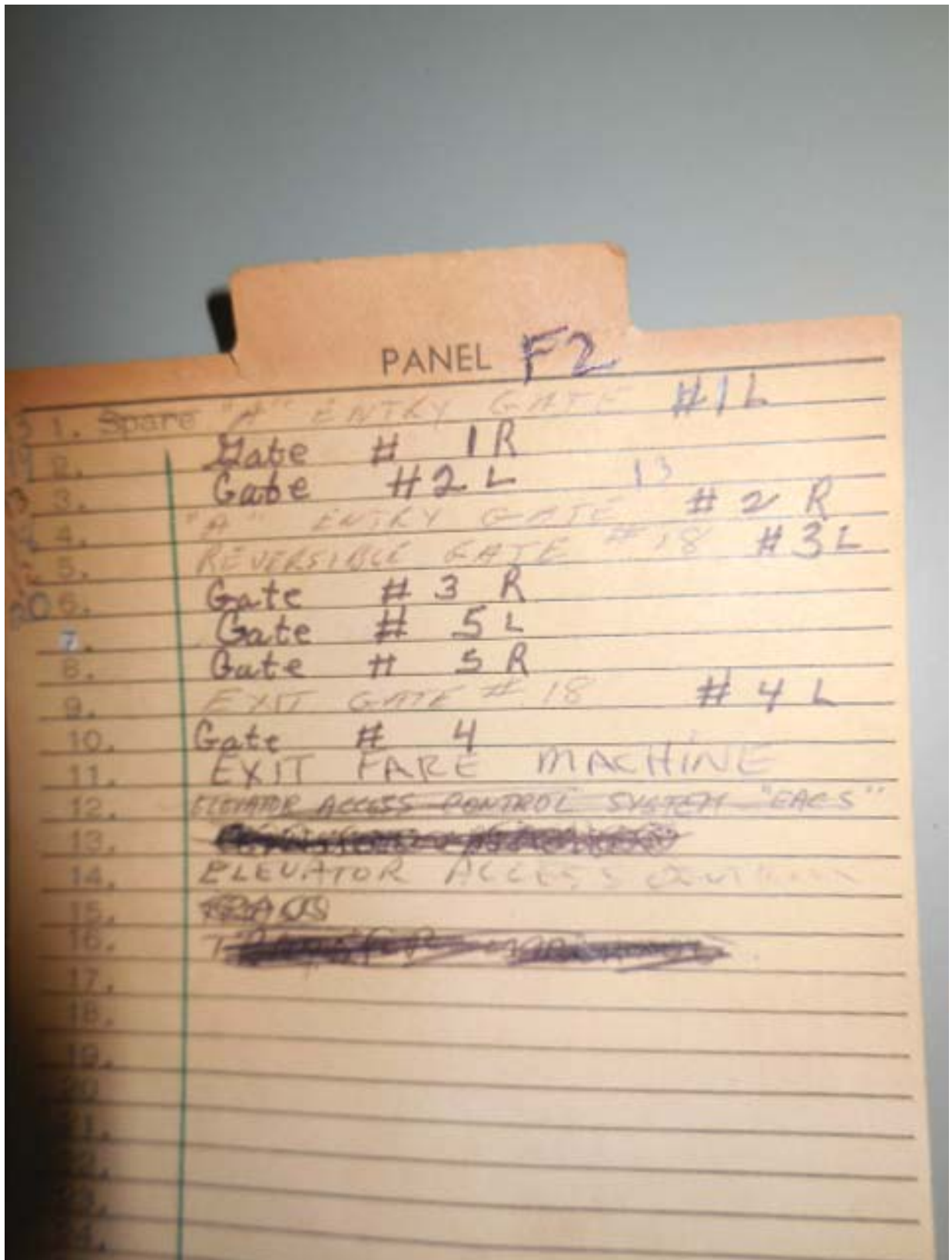
Picture 17: C06 Arlington Cemetery – South Dist. Panel in Room C206 – Panel schedule



Picture 18: C06 Arlington Cemetery – Panel F-2 in Room C206



Picture 19: C06 Arlington Cemetery – Panel F-2 in Room C206 – Panel schedule



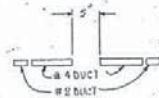
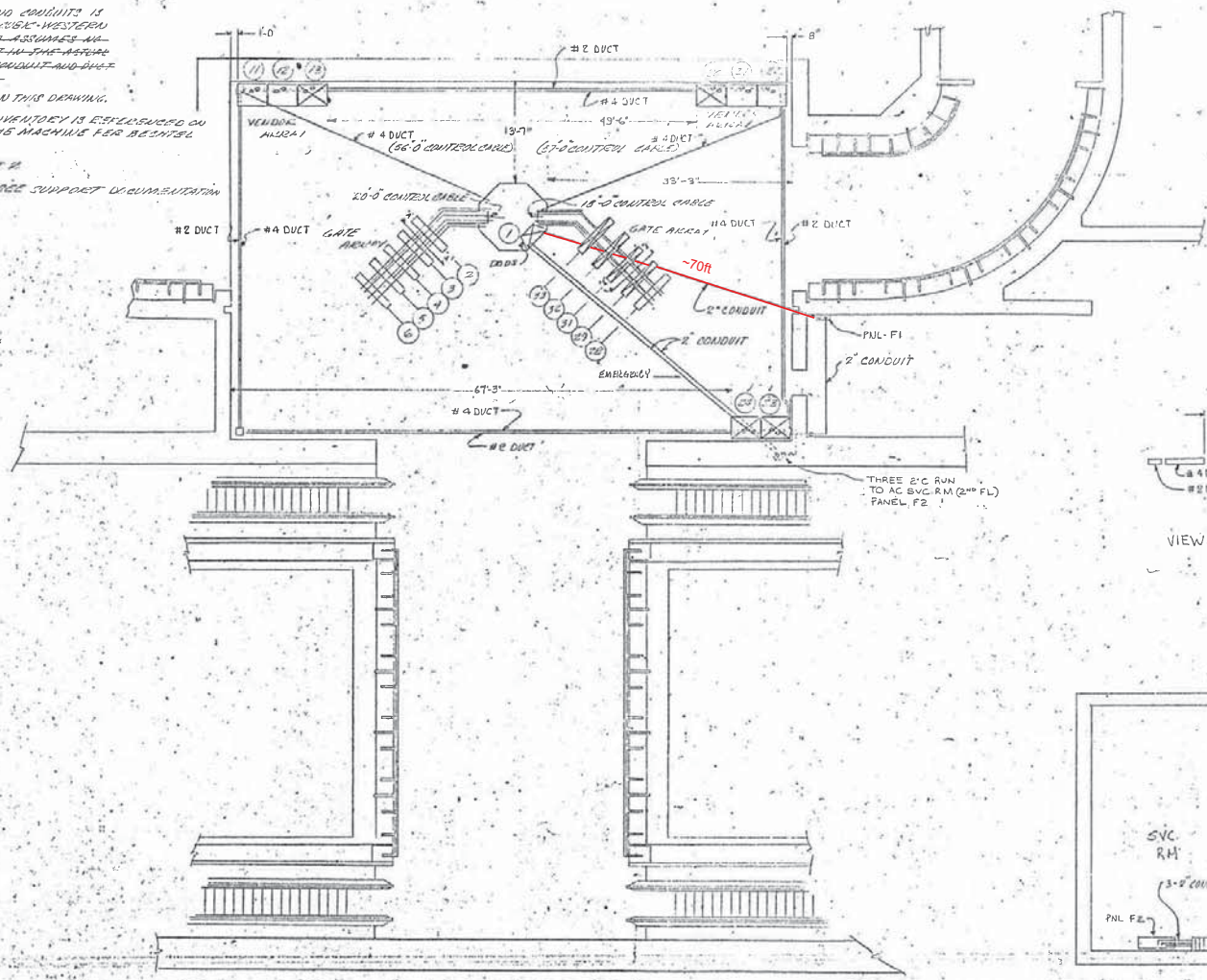
REVISIONS	DESCRIPTION	DATE	APVD
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Pre-Inspection Field
Verification 11/18/2014

NOTES:
1. ALL INFORMATION CONCERNING DUCTS AND CONDUITS IS BASED ON INFORMATION SUPPLIED TO QUIC-WESTERN DATA BY WMATA. QUIC-WESTERN DATA ASSUMES NO RESPONSIBILITY FOR ERRORS THAT EXIST IN THE ACTUAL DUCT AND DUCT LOCATIONS AS THE CONDUIT AND DUCT SYSTEMS ARE NOT DETECTED IN THIS DRAWING.

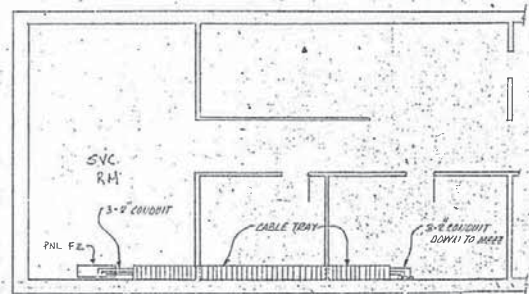
2. TAC MACHINE INVENTORY IS DERIVED ON THIS DRAWING. THE MINIMUM OPERATIONAL MACHINE INVENTORY IS REFLECTED ON THIS DRAWING BY THE 'X' DRAWN THRU THE MACHINE PER BECHTEL LETTER # 115.

FOR AS-BUILT CONDITIONS SEE SHEET # FOR REFERENCED DRAWINGS USED SEE SUPPORT DOCUMENTATION PACKAGE FOR THIS INTERCHANGE



VIEW 'A-A'

- 1) No of Conduits per Panel
- 2) Note 1 Not Acceptable
- 3) Panel should be inspected in Gate Area



DETAIL-B SVC RM SHOWING 3" DOWN 2" CABLE TRAY 3" PUL LOCATION (FE) / C.F. 25007A-102-A-0

-1 INSTALLATION PLAN

WASHINGTON METROPOLITAN AREA TRANSIT AUTHORITY
 CONTRACT NO. 25007A-102-A-0
 DATE 11-23-76

CONTRACT NUMBER 25007A
 QUIC-WESTERN DATA
 ARLINGTON CEMETERY STATION
 APC MACHINES
 DRAWING NUMBER 926-0381
 SHEET 47

Pre-Inspection Field
Verification 11/18/2014

EXISTING PANEL "F1" ✓												
AMPERES: 225	VOLTS: 120/208		MOUNTING: SURFACE									
MAINS: 225A	PHASE: 3		LOCATION: ROOM C100 ✓									
RATING: 10K AIC	WIRE: 4		SECTION: 1 OF 1									
LOAD DESCRIPTION	KVA	AMP	POLE	NO.	CTK	CTK	CTK	CTK	LOAD DESCRIPTION			
					NO.	POLE	AMP	KVA				
SPARE	0.0	20	1	1	A	-	2	1	20	0.8	EXISTING VENDOR	
EXISTING VENDOR	0.8	20	1	3	-	B	-	4	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	5	-	-	C	6	1	20	0.8	EXISTING VENDOR
SPARE	0.8	20	1	7	A	-	8	1	20	0.8	EXISTING VENDOR	
SPARE	0.0	20	1	9	-	B	-	10	1	20	0.8	EXISTING VENDOR
EXISTING VENDOR	0.8	20	1	11	-	-	C	12	1	20	0.8	NEW KIOSK RECEPT. (IT & NEPP) 1
EXISTING VENDOR	0.8	20	1	13	A	-	14	1	20	0.0	SPARE (KIOSK) 182 ✓	
EXISTING VENDOR	0.8	20	1	15	-	B	-	16	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	17	-	-	C	18	1	20	0.0	SPARE
EXISTING VENDOR	0.8	20	1	19	A	-	20	1	20	0.0	SPARE	
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
SPARE	0.0	20	1	25	A	-	26	1	20	0.0	SPARE	
SPARE	0.0	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	0.8	EXISTING VENDOR
EXIST LOAD CENTER "KES"	2.9	30	3	37	A	-	38	3	30	0.0	SPARE	
	2.5	-	-	39	-	B	-	40	-	-	0.0	
	2.5	-	-	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	2.4 x 50%	1.2 KVA
MSC. 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	19.9 KVA	TOTAL DEMAND KVA 19.5 KVA
		TOTAL DEMAND AMPS 54.0 AMPS

CONNECTED LOAD PHASE SUMMARY
 PHASE A: 6.9 KVA
 PHASE B: 5.7 KVA
 PHASE C: 7.3 KVA

NOTES: A. EXISTING PANEL "F1" IS FED FROM 120/208V, 3Ø, 4W EXISTING PANEL "N. DIST. PANEL" LOCATED IN BATTERY AC SWBD. RM. C206, CIRCUIT #1-3, 5-100A/3P (SEE ATTACHED DWG. MM-C-E13).
 B. EXISTING WIRING FED FROM BOTTOM OF PANEL BY:
 * 2-1 1/2" C. (WIRING FILL >40%).
 EXISTING WIRING FED FROM TOP OF PANEL BY:
 * 1-4" C. TO DIST. PANEL (WIRING FILL >40%).
 * 1-3/4" C. (WIRING FILL >40%)(1-WIRING FILL >20%).
 * 1-1/2" C. (WIRING FILL >40%)(1-WIRING FILL >20%).

CONTRACT NO
14-FQ10060-CENI-24

DESIGNED C. MOO DATE 10-14	REFERENCE DRAWINGS		REVISIONS	
	NUMBER	DESCRIPTION	DATE	BY
DRAWN C. MOO DATE 10-14				
CHECKED B. IDLBI DATE 10-14				
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

NEW ELECTRONIC PAY PROGRAM (NEPP)
 IN METRO RAIL STATIONS
 ARLINGTON CEMETERY
 PANEL SCHEDULE

SCALE: NOT TO SCALE
 DRAWING NO: C06-E-102

Pre-Inspection Field
Verification 11/18/2014

D:\ELECT\NewMap\Map\C-Route\Map-C-E13.dwg Mod Jun 21 17:47:16 2000 LP

