ST. ELIZABETH EAST CAMPUS
TEMPORARY POWER

2700 MARTIN LUTHER KING JR. AVENUE, SE
WASHINGTON, D.C.
SQUARE S-5868

PROJECT NUMBER : CAPLAN/01

ARCHITECT AND M/E/P ENGINEERS

ALPHATEC p.c.

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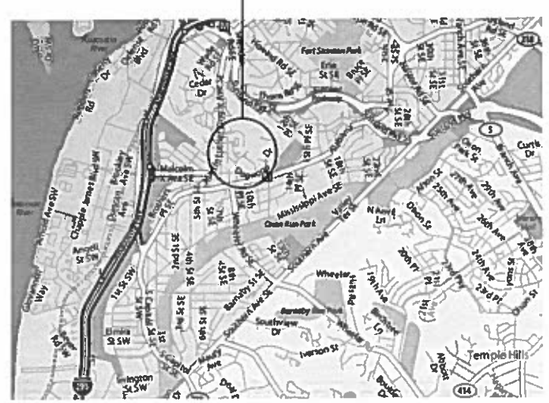
DWG NO.	TITLE:
G001	COVER SHEET

ELECTRICAL:

E101	EXISTING AND NEW ELECTRICAL SITE PLAN
E102	EXISTING BUILDING 129 – EAST SIDE SUBSTATION – FLOOR PLAN AND ELEVATIONS
E103	EXISTING HOSPITAL SWITCHGEAR – FLOOR PLAN AND ELEVATION
E701	PART DEMOLITION AND NEW SINGLE LINE DIAGRAM

1 DRAWING LIST

LOCATION OF WORK



2 LOCATION MAP

NOT TO SCALE

APPROVED	DESIGNED: HARRY BOGHOSIAN					
	DRAWN: SONIA MANTZOURANIS	1	11/17/09	REFEED FROM HOSPITAL SWITCHGEAR		
	CHECKED: KEN R. CALTOE, P.E.	2	12/22/08	PER DEP COMMENTS		
	CERTIFICATION	REVISION	DATE	DESCRIPTION	BY	APP.

ADMINISTRATOR
CAPITAL CONSTRUCTION SERVICES ADMINISTRATION

DATE: _____

CHIEF BUREAU OF BUILDING CONSTRUCTION SERVICES

DATE: _____

REGISTRATION NO. 6816
DATE: 8/31/2010

ARCHITECT/ENGINEER
N. C. ADAMOPOULOS, P.E.
DATE: 12/3/2009

COVER SHEET

ST. ELIZABETH EAST CAMPUS
TEMPORARY POWER
MARTIN LUTHER KING JR. AVENUE, SE
WASHINGTON, D.C.

ALPHATEC PC

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF REAL ESTATE SERVICES

DRAWING NO.
G001

BUILDING ID NO.
PROJECT NO.
DATE: 12/3/2009
SHEET 1 OF 5

SYMBOLS LIST:

- EXISTING UNDERGROUND 13.2KV, 3ø, 3W FEEDER TO REMAIN, UNLESS OTHERWISE NOTED
- △ EXISTING TRANSFORMER
- ○ MANHOLE WITH CAMPUS DISTRIBUTION NUMBER INDICATES DESIGNATION.

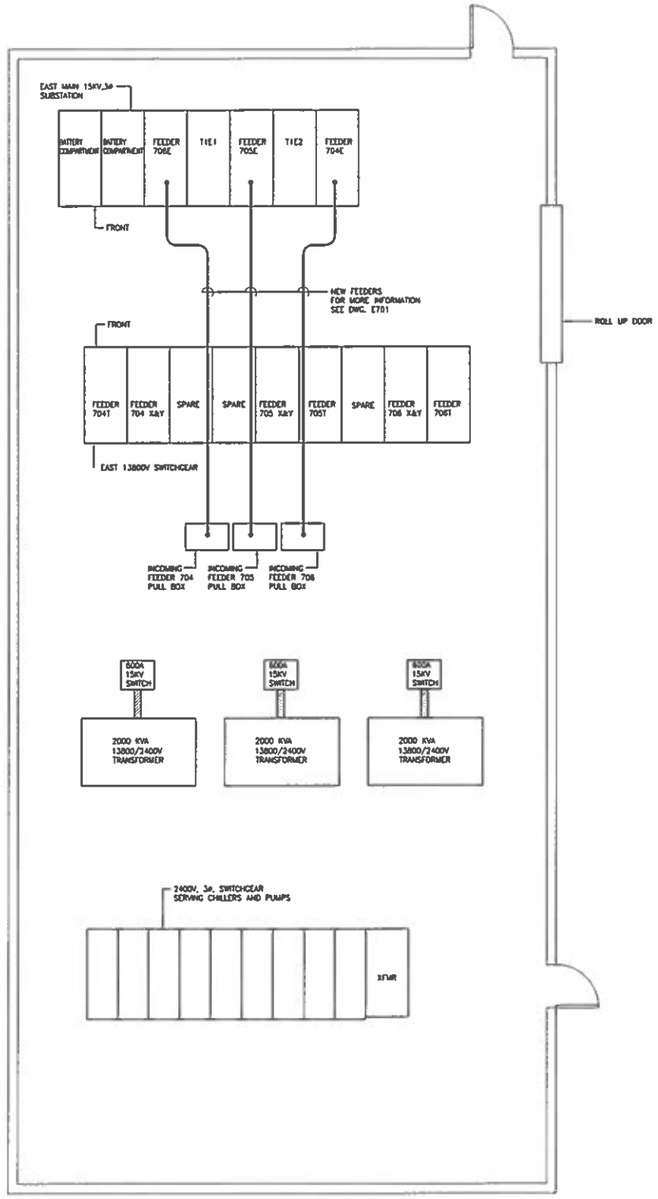
NOTES:

1. EXISTING FEEDERS BEING SERVED FROM WEST SIDE SUBSTATION BREAKER 4A, 5A, 6A AND 4B, 5B, 6B TO REMAIN. (SEE SINGLE LINE DIAGRAM E701).
2. EXISTING 6-SETS OF FEEDER TO BE CUT AND REMOVED FOR MORE INFORMATION (SEE SINGLE LINE DIAGRAM E701).
3. DISCONNECT AND REMOVE ONLY EXISTING 3-SETS OF FEEDER SERVING BUILDING 120.
4. EXISTING FEEDER TO REMAIN.
5. DISCONNECT AND REMOVE ONLY INCOMING 3-SETS OF FEEDER FOR MORE INFORMATION SEE SINGLE LINE DIAGRAM.
6. NEW DUCTBANK, FOR MORE INFORMATION SEE DRAWINGS E103 AND E701.
7. EXISTING DUCTBANK, PROVIDE NEW FEEDER FOR MORE INFORMATION SEE DWG. E701.

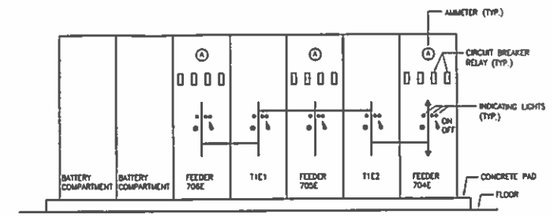
APPROVED	DESIGNED: HARRY BOGOSHIAN					
	DRAWN: SOPHIA MANTZOURANIS	△	11/17/09	REFEED FROM HOSPITAL SWITCHGEAR		
	CHECKED: KEN R. CAUDLE, P.E.	△	12/22/08	PER DEP COMMENTS		
	CERTIFICATION	REVISION	DATE	DESCRIPTION	BY	APP.
ADMINISTRATOR CAPITAL CONSTRUCTION SERVICES ADMINISTRATION		EXISTING AND NEW ELECTRICAL SITE PLAN			ELECTRICAL	
DATE:		ST. ELIZABETH EAST CAMPUS TEMPORARY POWER MARTIN LUTHER KING JR. AVENUE, SE WASHINGTON, D.C.			DRAWING NO. E101	
CHIEF BUREAU OF BUILDING CONSTRUCTION SERVICES	REGISTRATION NO. 8814 DATE: 8/31/2010	ALPHATEC PC			BUILDING ID NO.	
DATE:	ARCHITECT/ENGINEER N. C. ADAMOPOULOS, P.E. DATE: 12/3/2009	GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF REAL ESTATE SERVICES			PROJECT NO. DATE: 12/3/2009	

1 EXISTING AND NEW ELECTRICAL SITE PLAN

SCALE: 1"=150'-0"



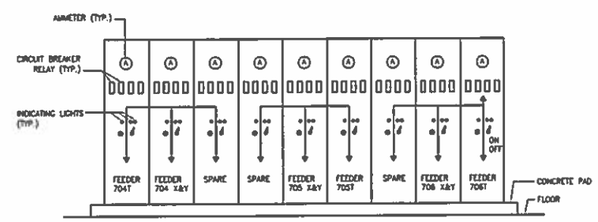
1 △ EAST SIDE SUBSTATION - BLDG. 129 SCALE: 1/4" = 1'-0"



NOTES:

1. PROTECTIVE RELAYS: A#, B#, C# GE MODEL #12ACS38811A
   1.5-12A RANGE, INST. RANGE 10A-80A
2. 13KV BREAKERS: GE MAGNABLAST, 1200A, 95KV IMPULSE RATING
   INT. TIME - SCT, SHORT CIRCUIT AMPS 18KVA.
3. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A THIRD PARTY TESTING COMPANY TO SURVEY THE EXISTING GEAR, PERFORM A PROTECTIVE RELAY STUDY FOR THE EXISTING INCOMMING GEAR, TEST THE GEAR WHILE DE-ENERGIZED, PERFORM PREVENTATIVE MAINTENANCE AND SET THE PROTECTIVE RELAYS ACCORDING TO THE NEW RELAY STUDY.

2 E102 EXISTING EAST SUBSTATION - BLDG. 129 - ELEVATION NOT TO SCALE



NOTES:

1. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A THIRD PARTY TESTING COMPANY TO SURVEY THE EXISTING GEAR, TEST THE GEAR WHILE DE-ENERGIZED, PERFORM PREVENTATIVE MAINTENANCE AND SET THE PROTECTIVE RELAYS ACCORDING TO THE NEW RELAY STUDY.

3 E102 EXISTING EAST SWITCHGEAR - BLDG. 129 - ELEVATION NOT TO SCALE

APPROVED

ADMINISTRATOR CAPITAL CONSTRUCTION SERVICES ADMINISTRATION

DATE:

CHIEF BUREAU OF BUILDING CONSTRUCTION SERVICES

DATE:

DESIGNED: HARRY BOGHOSIAN
DRAWN: SOPHIA MANTZOURANIS
CHECKED: KEN R. CAUDLE, P.E.

CERTIFICATION

REVISION	DATE	DESCRIPTION	BY	APP.
1	11/17/09	REFEED FROM HOSPITAL SWITCHGEAR		
2	12/22/08	PER DEP COMMENTS		

EXIST.BLDG.129 EAST SIDE SUBSTATION-FLR.PLN AND ELEVATIONS

ELECTRICAL

ST. ELIZABETH EAST CAMPUS
TEMPORARY POWER
MARTIN LUTHER KING JR. AVENUE, SE
WASHINGTON, D.C.

DRAWING NO.

E102

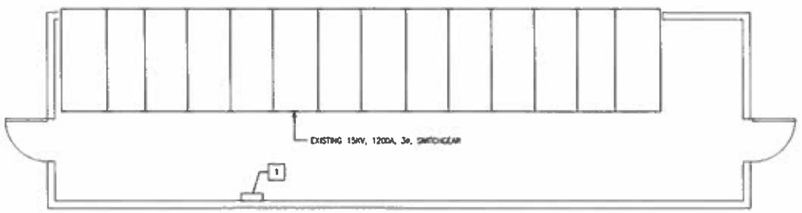
REGISTRATION NO. 6614
DATE: 6/31/2010

ALPHATEC PC
ENGINEERING ARCHITECTURE PLANNING

ARCHITECT/ENGINEER N. C. ADAMOPOULOS, P.E.
DATE: 12/3/2009

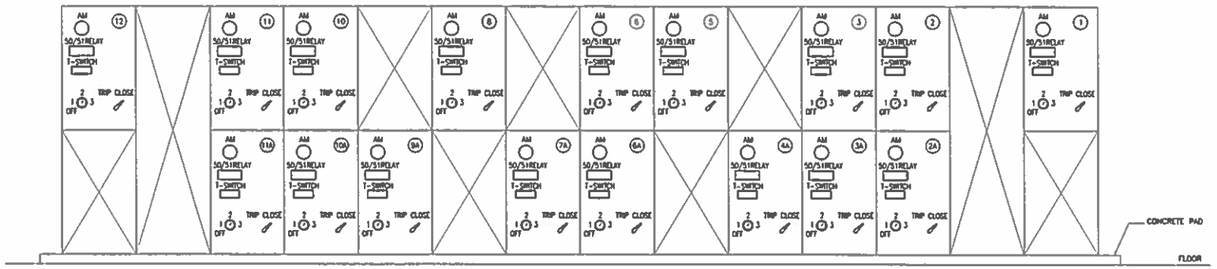
GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF REAL ESTATE SERVICES

BUILDING ID NO.
PROJECT NO.
DATE: 12/3/2009
SHEET 3 OF 5



NOTE:

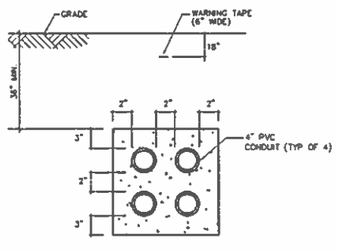
1 NEW 15KV ELECTRONIC TOTALIZING METER.



0 2' 4' 6' 8' 12'
SCALE: 1/4" = 1'-0"

1 E103 — EXISTING HOSPITAL SWITCHGEAR - FLOOR PLAN — SCALE: 1/4"=1'-0"

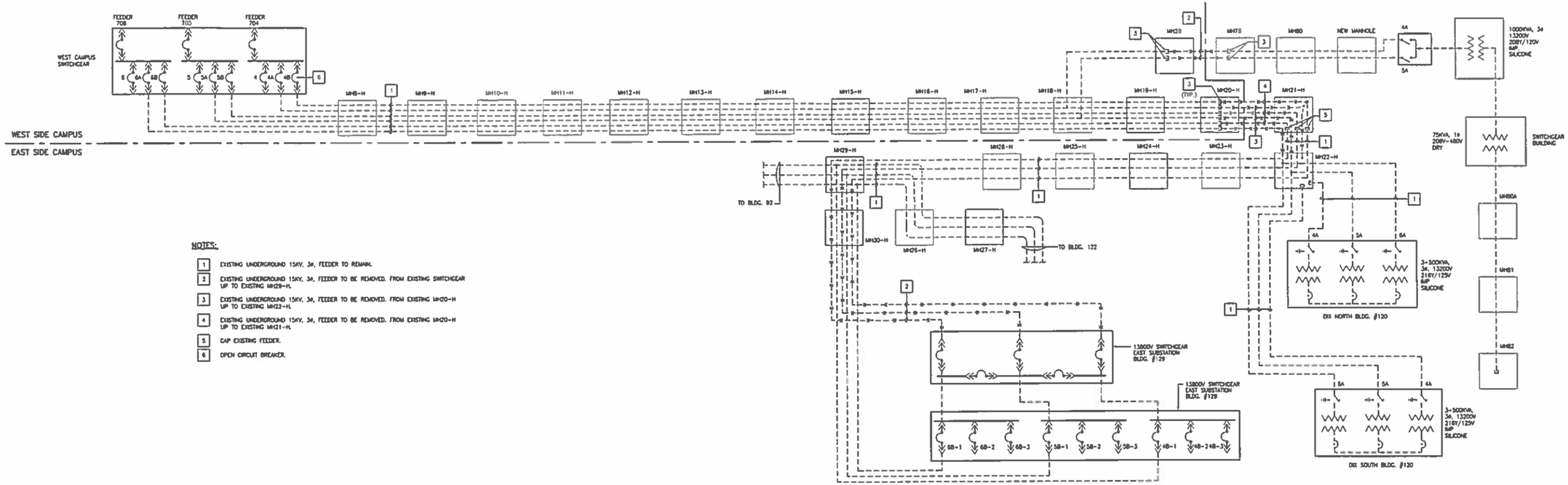
2 E103 — EXISTING HOSPITAL SWITCHGEAR - ELEVATION — NOT TO SCALE



SECTION 'A-A'

3 — DUCTBANK 'A-A' DETAIL — NOT TO SCALE

APPROVED	DESIGNED: HARRY BOGHOSIAN				
	DRAWN: SOPHIA MANTZOURANOS	2	11/17/09	REFEED FROM HOSPITAL SWITCHGEAR	
	CHECKED: KEN E. CAUTILE P.E.	1	12/22/08	PER DEC COMMENTS	
	CERTIFICATION	REVISION	DATE	DESCRIPTION	BY / APP.
		EXISTING HOSPITAL SWITCHGEAR - FLOOR PLAN AND ELEVATION			ELECTRICAL
ADMINISTRATOR CAPITAL CONSTRUCTION SERVICES ADMINISTRATION DATE:		ST. ELIZABETH EAST CAMPUS TEMPORARY POWER MARTIN LUTHER KING JR. AVENUE, SE WASHINGTON, D.C.			DRAWING NO. E103
CHIEF BUREAU OF BUILDING CONSTRUCTION SERVICES	REGISTRATION NO. 6614 DATE: 8/31/2010	ALPHATEC PC ENGINEERING ARCHITECTURE PLANNING			BUILDING ID NO.
	ARCHITECT/ENGINEER N. C. ADAMOPOULOS, P.E. DATE: 12/3/2009	GOVERNMENT OF THE DISTRICT OF COLUMBIA DEPARTMENT OF REAL ESTATE SERVICES			PROJECT NO. DATE: 12/3/2009



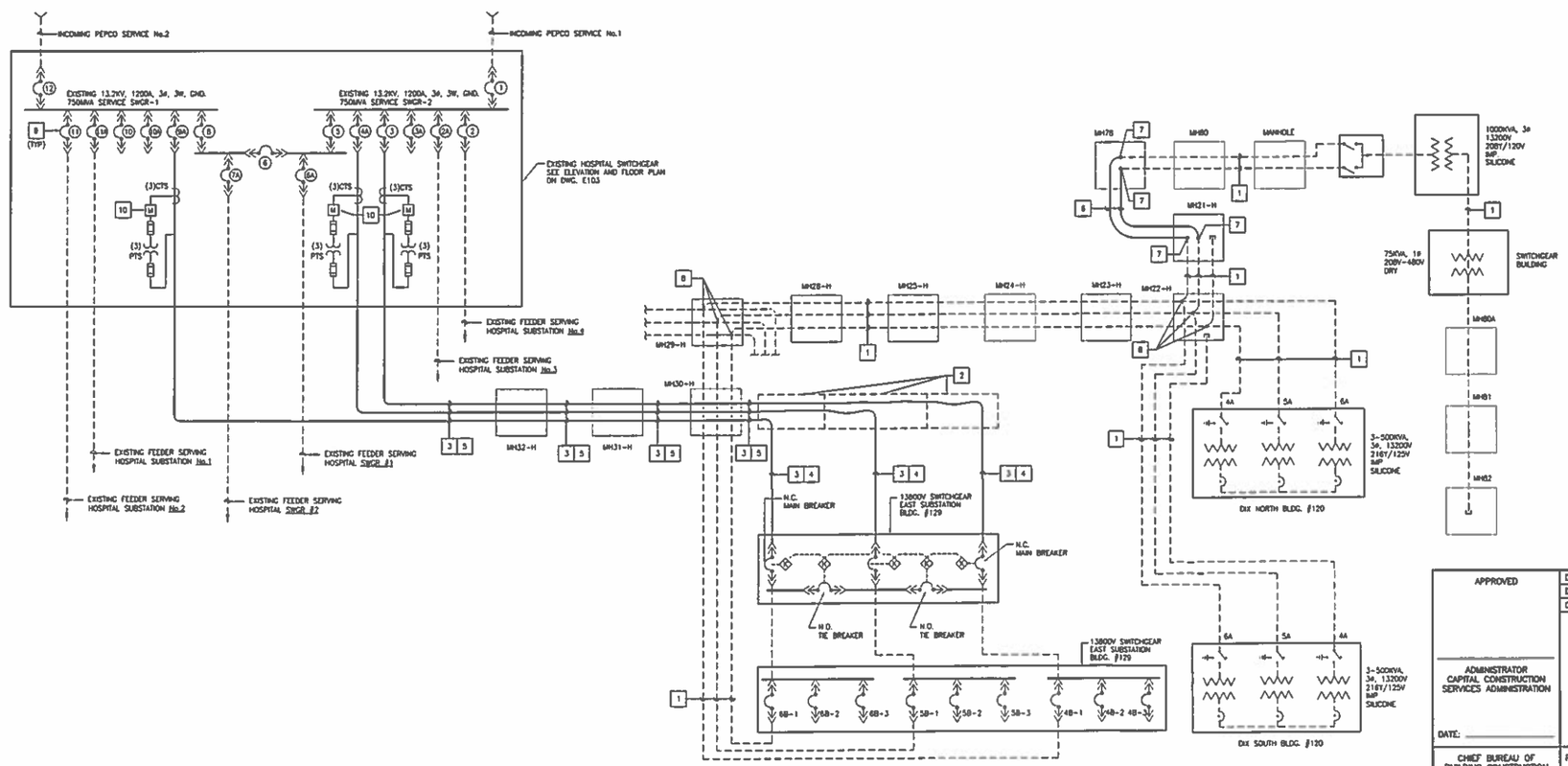
NOTES:

1. EXISTING UNDERGROUND 15KV, 3ø, FEEDER TO REMAIN.
2. EXISTING UNDERGROUND 15KV, 3ø, FEEDER TO BE REMOVED. FROM EXISTING SWITCHGEAR UP TO EXISTING MH29-H.
3. EXISTING UNDERGROUND 15KV, 3ø, FEEDER TO BE REMOVED. FROM EXISTING MH20-H UP TO EXISTING MH22-H.
4. EXISTING UNDERGROUND 15KV, 3ø, FEEDER TO BE REMOVED. FROM EXISTING MH20-H UP TO EXISTING MH21-H.
5. CAP EXISTING FEEDER.
6. OPEN CIRCUIT BREAKER.

1
E701

EXISTING DEMOLITION SINGLE LINE DIAGRAM

NOT TO SCALE



NOTES:

1. EXISTING UNDERGROUND 13.8KV, 3ø, FEEDER TO REMAIN (TYPICAL).
2. EXISTING FEEDER PULL BOXES IN BLDG. 129 FOR EXACT LOCATION SEE DWG. 1/E102.
3. PROVIDE 3ø4/0 15KV EPR CABLES+1ø0 GND FROM EXISTING HOSPITAL 1200A, 13.2KV, 3ø, 3W SWITCHGEAR TO EXISTING BLDG. 129 SWITCHGEAR AS SHOWN.
4. RUN NEW 15KV FEEDERS IN EXISTING OVERHEAD CONDUIT UP TO EXISTING PULL BOX.
5. RUN NEW 15KV FEEDERS IN EXISTING UNDERGROUND DUCT BANK.
6. PROVIDE 3 - 1/C - 4/0 EPR CABLE +1ø1/0G IN NEW DUCT BANK. SEE DUCT BANK 'A-A' ON DRAWING E103.
7. SPLICE NEW FEEDER TO EXISTING.
8. SPLICE EXISTING FEEDER.
9. EXISTING 1200A, 3P, 15KV POWER CIRCUIT BREAKER.
10. PROVIDE 15KV ELECTRONIC METERING (WALL MTD.) FOR LOCATION SEE DWG. E103.

GENERAL NOTES:

1. TEST ALL CABLES NEW AND REWORKED PRIOR TO ENERGIZING, FOR SHORT OR OPEN CIRCUITS.
2. CONTRACTOR SHALL COORDINATE ALL OUTAGES WITH THE OWNER, BMH AND CSA PRIOR TO DISCONNECTING POWER. THE CONTRACTOR SHALL DEVELOP A PLAN AND SCHEDULE WITH OUTAGES, EXTENT OF OUTAGES AND DURATION OF OUTAGES AND SUBMIT FOR REVIEW AND APPROVAL.

2
E701

PART EXISTING AND NEW SINGLE LINE DIAGRAM - EAST CAMPUS

NOT TO SCALE

APPROVED

ADMINISTRATOR CAPITAL CONSTRUCTION SERVICES ADMINISTRATION

DATE: _____

CHIEF BUREAU OF BUILDING CONSTRUCTION SERVICES

DATE: _____

DESIGNED: HARRY BOGHOSIAN
DRAWN: SOPHIA MANTZOURIANIS
CHECKED: KEN R. CAUDLE P.E.

CERTIFICATION

REVISION	DATE	DESCRIPTION	BY	APP.
3	11/17/09	REFEED FROM HOSPITAL SWITCHGEAR		
2	12/22/08	PER DEP COMMENTS		

PART DEMOLITION AND NEW SINGLE LINE DIAGRAM

ELECTRICAL

DRAWING NO.

E701

ST. ELIZABETH EAST CAMPUS
TEMPORARY POWER
MARTIN LUTHER KING JR. AVENUE, SE
WASHINGTON, D.C.

REGISTRATION NO. 6814
DATE: 8/31/2010

ARCHITECT/ENGINEER
N. C. ADAMOPOULOS, P.E.
DATE: 12/3/2009

ALPHATEC PC
ENGINEERING ARCHITECTURE PLANNING
1333 16TH STREET N.W. WASHINGTON, D.C. 20036
TEL. 202/797-9369 FAX 202/797-9369

GOVERNMENT OF THE DISTRICT OF COLUMBIA
DEPARTMENT OF REAL ESTATE SERVICES

BUILDING ID NO.

PROJECT NO.

DATE: 12/3/2009

SHEET 5 OF 5