

REV	DESCRIPTION	BY	DATE	-	----	--	--/--/--	-	----	--	--/--/--
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WM. JENNINGS BRYAN DORN  
VA MEDICAL CENTER  
COLUMBIA, SOUTH CAROLINA  
ADVANCED METERING PROJECT  
AS-BUILT

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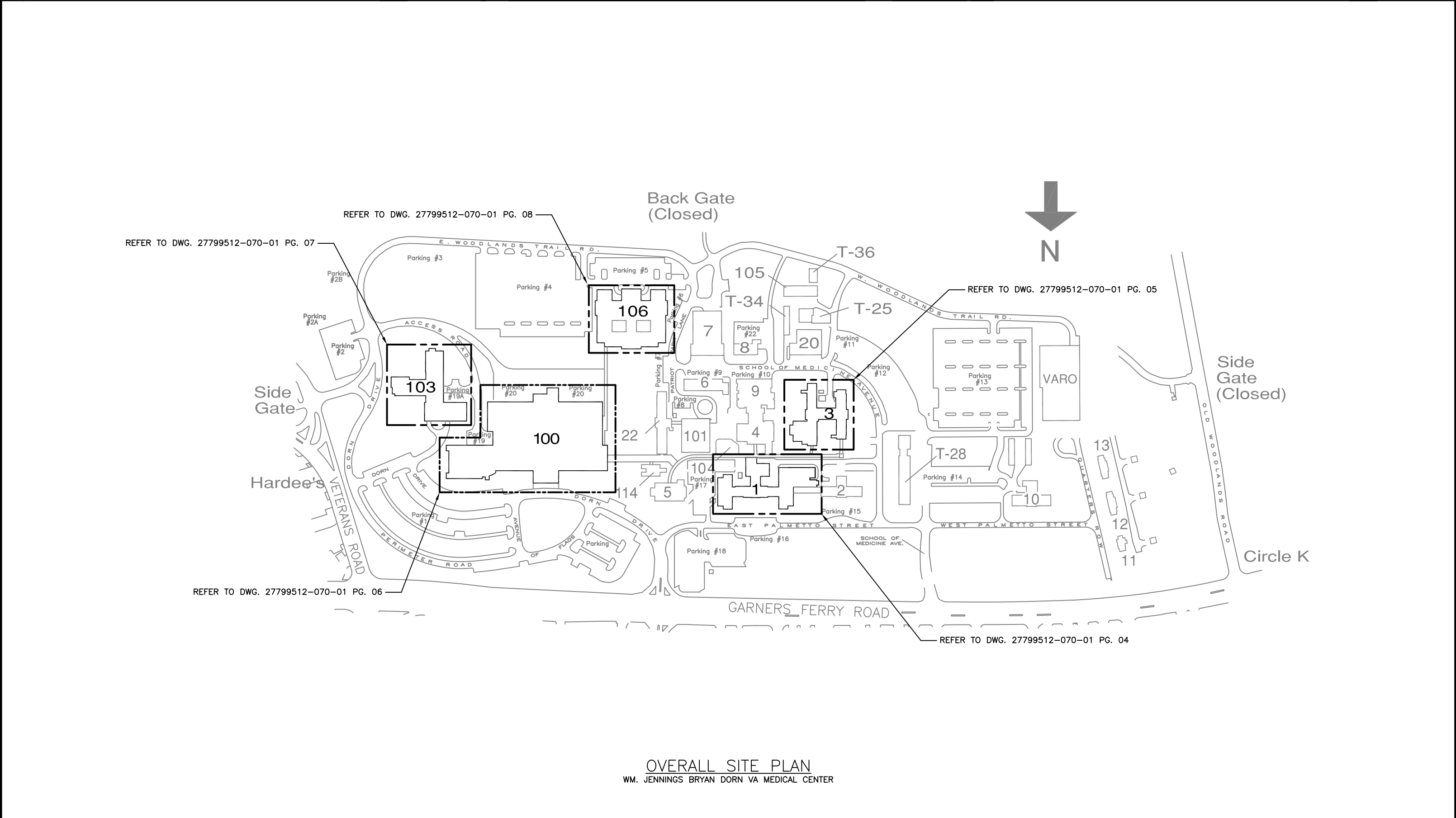
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27799512-070-01	01		TITLE SHEET & TABLE OF CONTENTS	AS-BUILT
27799512-070-01	02		TYPICAL CUTSHEET TABLE REFERENCE	AS-BUILT
27799512-070-01	03		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER SYSTEM SITE PLAN	AS-BUILT
27799512-070-01	04		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER FLOOR PLAN (BUILDING 1)	AS-BUILT
27799512-070-01	05		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER FLOOR PLAN (BUILDING 3)	AS-BUILT
27799512-070-01	06		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER FLOOR PLAN (BUILDING 100)	AS-BUILT
27799512-070-01	07		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER FLOOR PLAN (BUILDING 103)	AS-BUILT
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27799512-070-CM	11		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER NETWORK DETAILS	AS-BUILT
27799512-070-01	12		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER PARTIAL ONE-LINE	AS-BUILT
27799512-070-01	13		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER WIRING SCHEMATIC (TYPICAL NEW METER ENCLOSURE (SYSTEM ID 40))	AS-BUILT
27799512-070-01	14		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER WIRING SCHEMATIC (TYPICAL NEW METER ENCLOSURE (SYSTEM ID 40))	AS-BUILT
27799512-070-01	15		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER WIRING SCHEMATIC (TYPICAL NEW METER RETROFIT (SYSTEM ID 40))	AS-BUILT
27799512-070-01	16		WM. JENNINGS BRYAN DORN VA MEDICAL CARE CENTER TYPICAL COMPONENT MOUNTING	AS-BUILT

REV	DESCRIPTION	BY	DATE		—	----	—	—	—/—/—	—	----	—	—	—/—/—
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CUTSHEET REFERENCE TABLE		
Document Number	Description	File Name Reference
01	Square D PowerLogic Factory Assembled Enclosures Installation Guide	Item 1 – Enclosure Instruction Bulletin.pdf
02	Phoenix Contact 24VDC Power Supply Data Sheet	Item 2 – 2866750 PC Power supply.pdf
03	Maxrad Access Point Radio Antenna Data Sheet	Item 3 – Antenna Maxrad MFB9157.pdf
04	Kathrein–Scala TY–900 Remote Radio Antenna Data Sheet	Item 4 – Antenna TY–900.pdf
05	Bussman Compact Circuit Protector Disconnect Switch Data Sheet	Item 5 – CCP Fusible disconnect.pdf
06	Bussman FNQ–R Fuse Specification Sheet	Item 6 – FNQ–R Fuses.pdf
07	Flex–Core Shorting Terminal Block Data Sheet	Item 7 – IKU Shorting Terminal Blocks.pdf
08	PD–395 Lightning Arrestor Specification Sheet	Item 8 – Lightning Arrester Parameters.pdf
09	Heliax Coaxial Cable Data Sheet	Item 9 – LDF4RN–50A Heliax Coaxial Cable.pdf
10	MDS iNET–II 900 Ethernet Remote Radio Specification Sheet	Item 10 – MDS iNETII 900 Mhz Radio.pdf
11	MDS Wireless Radio Enclosure Specification Sheet	Item 11 – MDS Packaged Radio Series Data Sheet.pdf
12	Kathrein–Scala Access Point Antenna (Low Gain) Data Sheet	Item 12 – Unity Omni Antenna.pdf
13	Flex–Core CT Data Sheet	Item 13 – Flex Core CT Data Sheet. pdf
14	Schneider Electric 9070T250D32 Industrial Control Transformer	Item 14 – Control Power Transformer.pdf
15	MTS Wireless Mounting Hardware Product Guide	Item 15 – Steel Wireless Mounting Hardware.pdf
16	Square D PowerLogic Power Meter 800 Series Product Application Guide	Item 16 – PM800 Spec Overview.pdf
17	Belden Serial Communication Cable Specification Sheet	Item 17 – Belden Cables.pdf
18	Equipment Penetration and Firestopping Installation Guide	Item 18 – Penetration & Firestopping.pdf
19	Equipment Mounting Anchor Installation Guide	Item 19 – Mounting Anchor.pdf
20	Cable Tie Specification Guide	Item 20 – Cable Ties.pdf
21	Cisco Ethernet Hardwire Router Data Sheet	Item 21 – Cisco Router.pdf
22	Cisco Ethernet Wireless Router Data Sheet	Item 22 – Cisco Wireless Router.pdf
23	Ethernet Extender Specification Sheet	Item 23 – EIR–Extend–0408ds Ethernet Extender.pdf
24	Mean Well Power Supply Data Sheet	Item 24 – MDR–40 Power Supply Spec.pdf
25	Panel Mount Wireless Antenna Specifcaition Sheet	Item 25 – MP800900 PCTEL Panel Mount Antenna.pdf
26	DSL Modem Data Sheet	Item 26 – Netopia 4600 Series Router.pdf
27	Wireless Enclosure Installation Guide	Item 27 – MDS P–60 Enclosure Installation Guidelines.pdf
28	Ntron Eight Port Ethernet Switch	Item 28 – 108TX_Datasheet.pdf
29	E–Linx Five Port Ethernet Switch	Item 29 – EIR205 Series 2709–ds Industrial DCV Switch.pdf

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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:		VISN 7	
			DRAWN BY:	DONALD FREITAS	DRAWING TYPE:		TYPICAL CUTSHEET TABLE REFERENCE	
	CHECKED BY: ALAN WATSON		ENGR:	FAUSTO ZAMUDIO	<div>Schneider Electric</div>			
	CHECKED DATE: MARCH 21, 2011		DATE:	MARCH 21, 2011				
	PLANT LOCATION: P48 (ENG SVCS – PROJECTS)		DRAWING STATUS:	AS–BUILT	DWG#	27799512–070–01	PG 02	OF 16

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OVERALL SITE PLAN  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER


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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:		VISN 7
	CHECKED BY: ALAN WATSON		DRAWN BY:	DONALD FREITAS	DRAWING TYPE: WM. JENNINGS BRYAN DORN VA OVERALL SITE PLAN		
	CHECKED DATE: MARCH 21, 2011		ENGR:	FAUSTO ZAMUDIO			
	PLANT LOCATION: P48 (ENG SVCS - PROJECTS)		DATE:	MARCH 21, 2011	<b>Schneider Electric</b>		
			DRAWING STATUS:	AS-BUILT			
			DWG# 27799512-070-01		PG 03	OF 16	REV -

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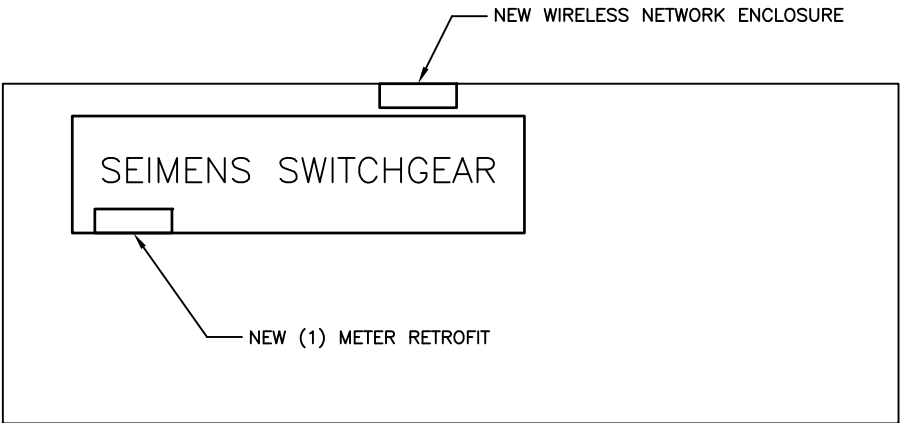
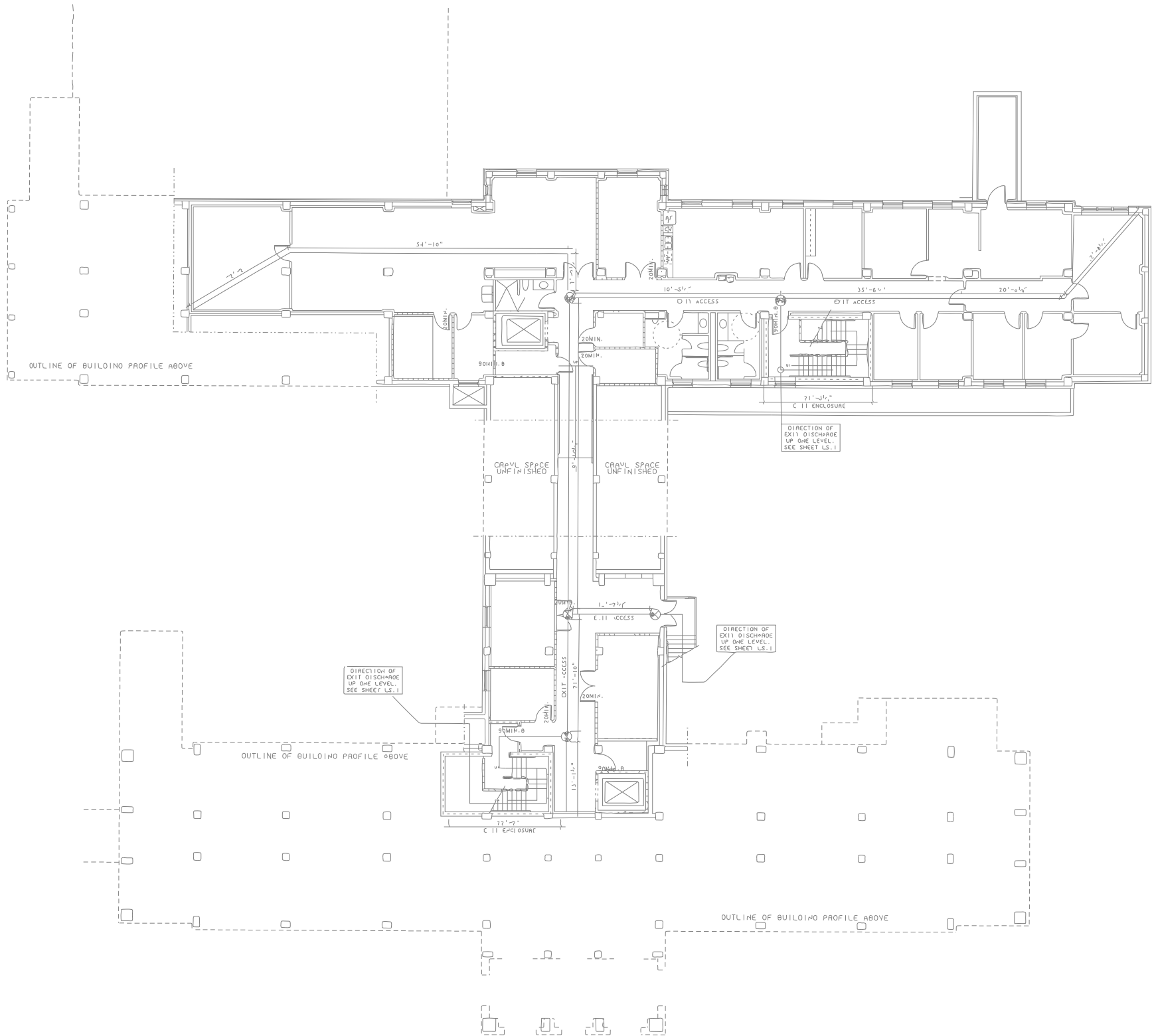


BUILDING 1, ROOM B41 FLOOR PLAN  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER



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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:	VISN 7			
	CHECKED BY:		ALAN WATSON	DRAWN BY:	DONALD FREITAS	DRAWING TYPE:	WM. JENNINGS BRYAN DORN VA FLOOR PLAN		
	CHECKED DATE:		MARCH 21, 2011	ENGR:	FAUSTO ZAMUDIO				
	PLANT LOCATION:		P48 (ENG SVCS – PROJECTS)	DATE:	MARCH 21, 2011				
				DRAWING STATUS:	AS-BUILT	DWG#	27799512-070-01	PG 04	OF 16

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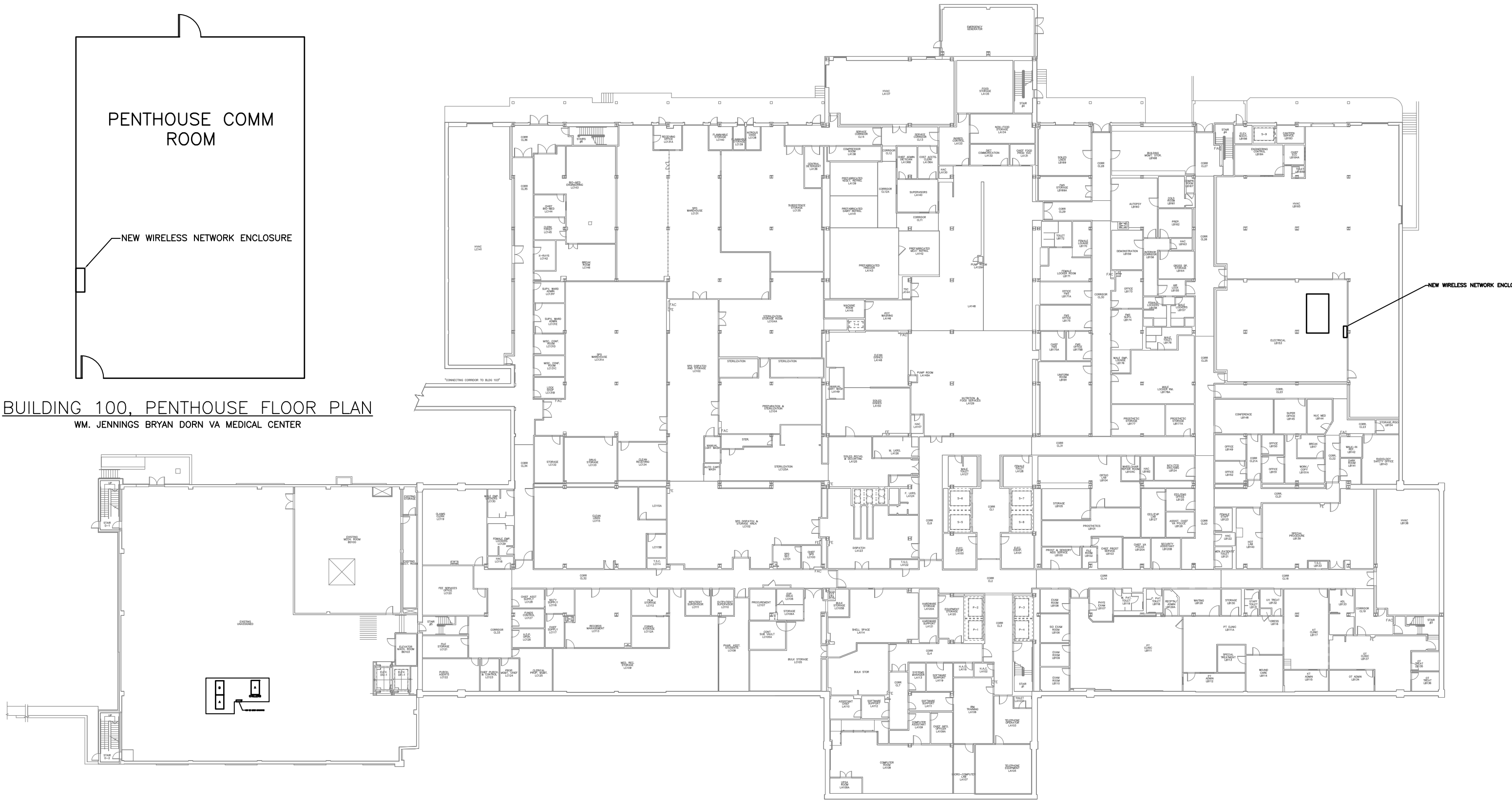


BUILDING 3, ROOM 18 FLOOR PLAN  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER

BUILDING 3 BASEMENT FLOOR PLAN  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER

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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:	VISN 7				
	CHECKED BY:		ALAN WATSON	DRAWN BY:	DONALD FREITAS	DRAWING TYPE:	WM. JENNINGS BRYAN DORN VA FLOOR PLAN			
	CHECKED DATE:		MARCH 21, 2011	ENGR:	FAUSTO ZAMUDIO	<div>Schneider Electric</div>				
	PLANT LOCATION:		P48 (ENG SVCS – PROJECTS)	DATE:	MARCH 21, 2011					
				DRAWING STATUS:	AS-BUILT	DWG#	27799512-070-01		PG 05	OF 16

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BUILDING 100, PENTHOUSE FLOOR PLAN  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER

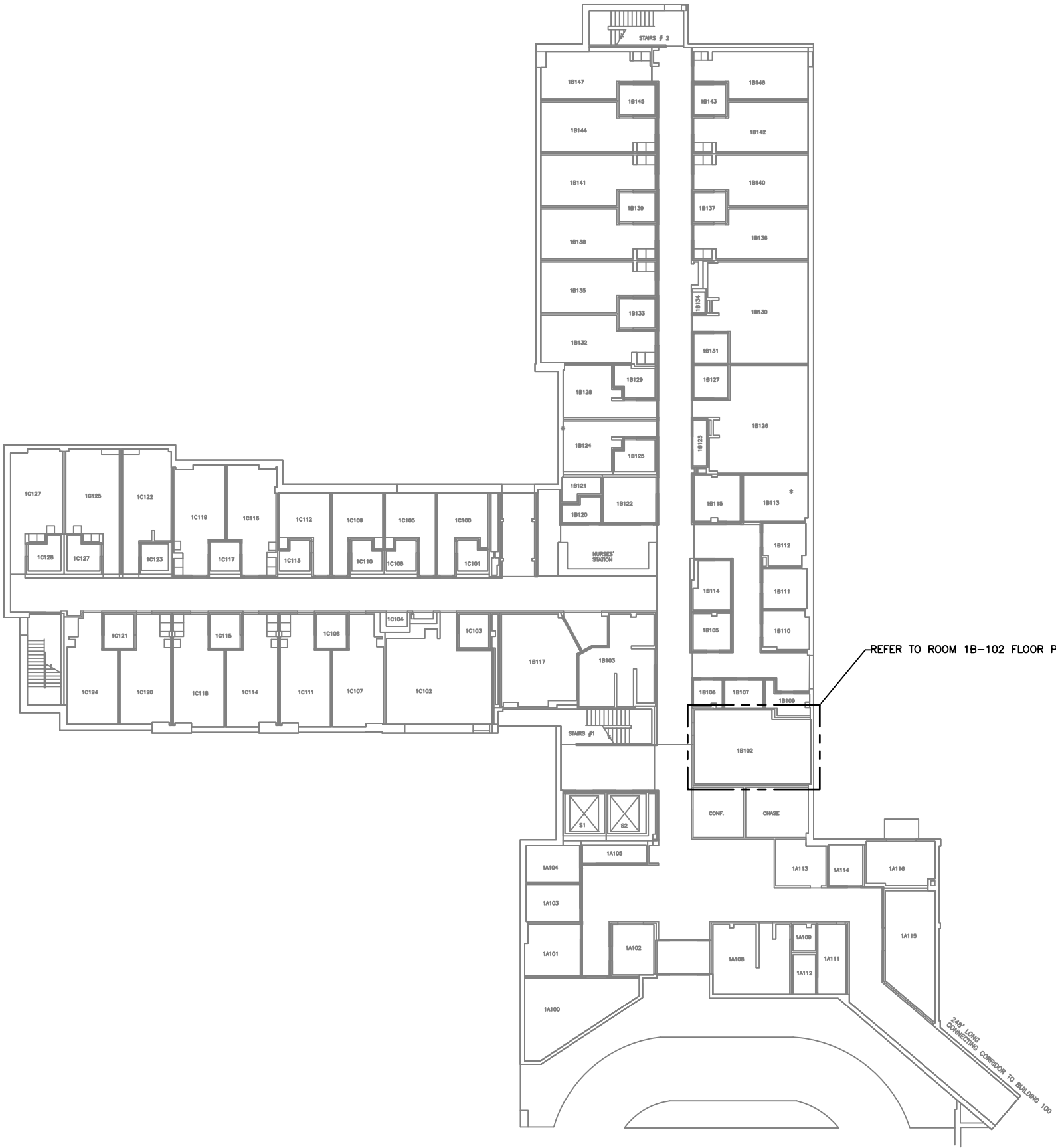
BUILDING 100, ROOM LB153 FLOOR PLAN  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER



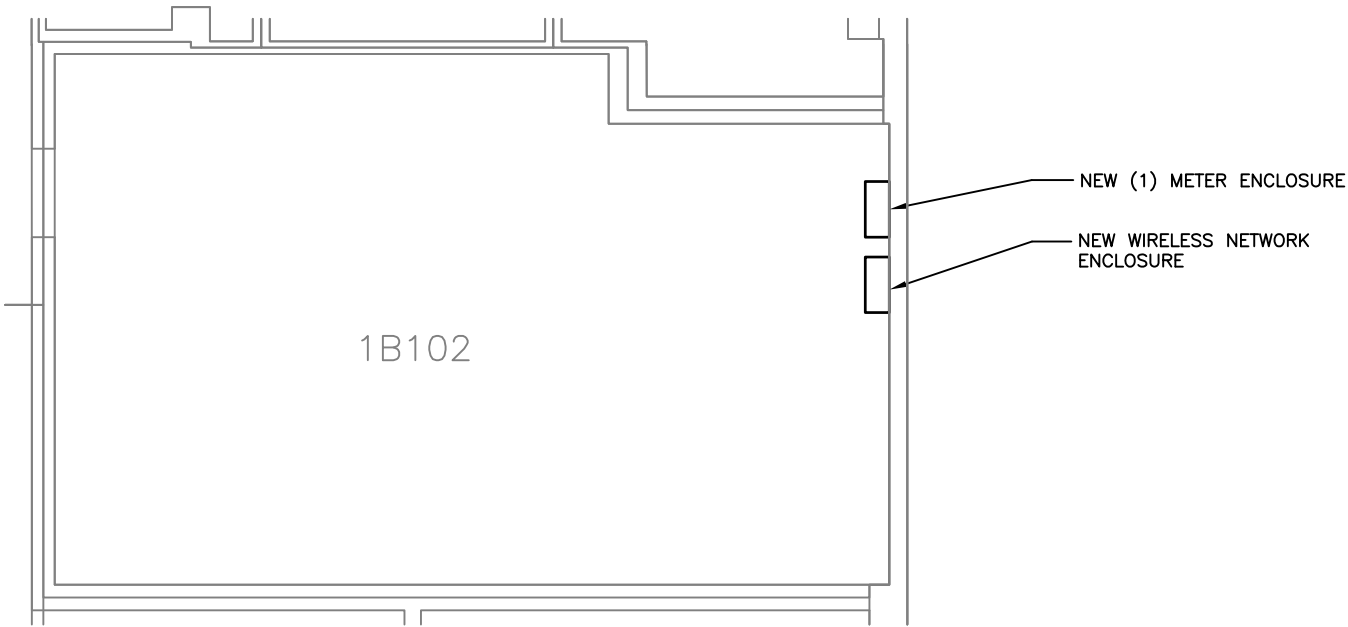
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SCHNEIDER ELECTRIC USA, INC.		JOB NAME:	WM. JENNINGS BRYAN DORN VA MEDICAL CENTER	EQUIPMENT DESIGNATION:	BUILDING 100
		JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:	VISN 7
CHECKED BY:	ALAN WATSON	DRAWN BY:	DONALD FREITAS	DRAWING TYPE:	WM. JENNINGS BRYAN DORN VA FLOOR PLAN
CHECKED DATE:	MARCH 21, 2011	ENGR:	FAUSTO ZAMUDIO		
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DATE:	MARCH 21, 2011		
		DRAWING STATUS:	AS–BUILT	DWG#	27799512–070–01
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**BUILDING 103 FLOOR PLAN**  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER



**ROOM 1B-102 FLOOR PLAN**  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER

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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:	VISN 7				
			DRAWN BY:	DONALD FREITAS	DRAWING TYPE:	WM. JENNINGS BRYAN DORN VA FLOOR PLAN				
	CHECKED BY:	ALAN WATSON	ENGR:	FAUSTO ZAMUDIO	<div>Schneider Electric</div>					
	CHECKED DATE:	MARCH 21, 2011	DATE:	MARCH 21, 2011						
	PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)		DRAWING STATUS:	AS–BUILT	DWG#	27799512–070–01	PG 07	OF 16	REV –

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BUILDING 106, ROOM E107D FLOOR PLAN  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER

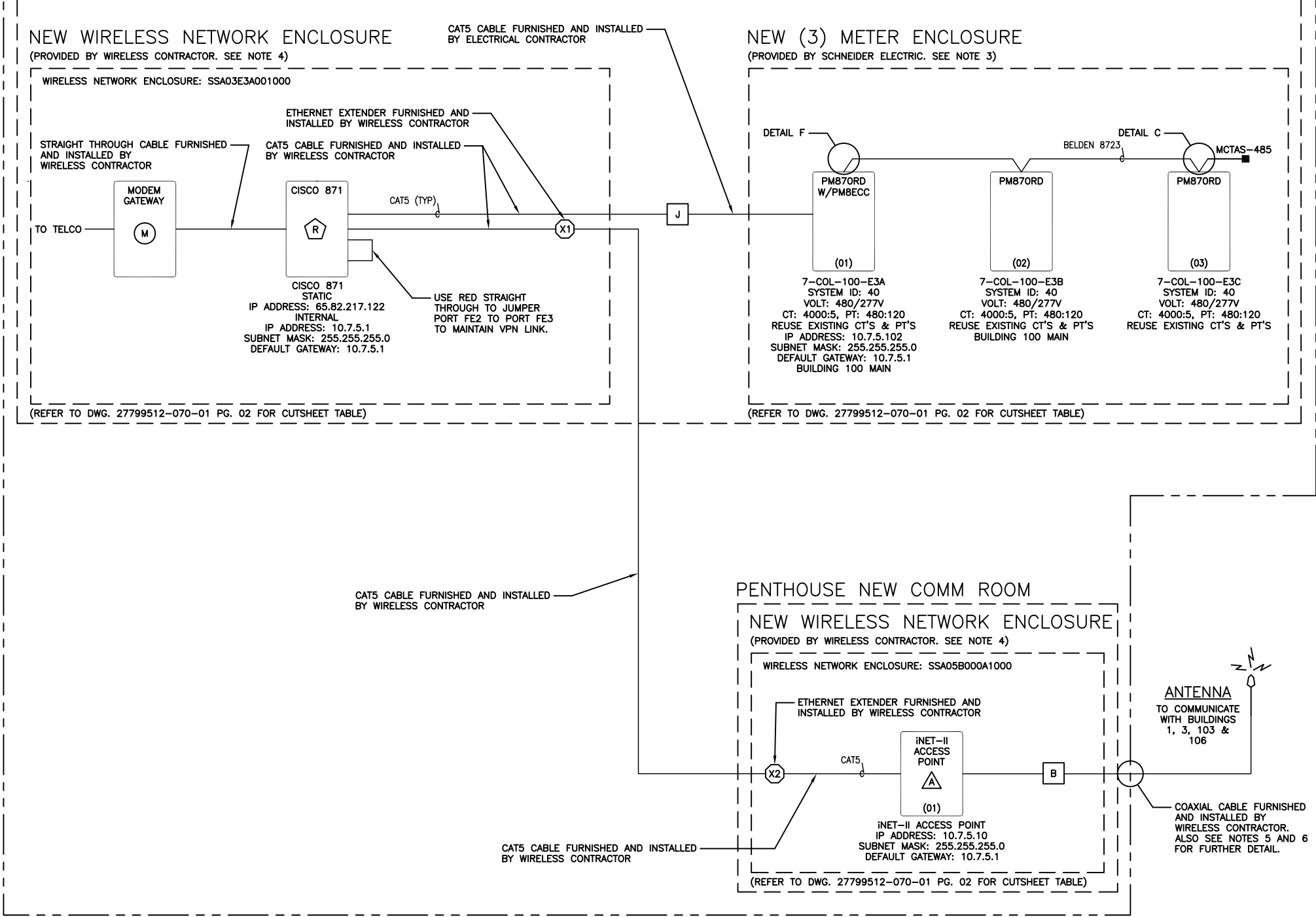
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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:	VISN 7
	CHECKED BY: ALAN WATSON		DRAWN BY:	DONALD FREITAS	DRAWING TYPE: WM. JENNINGS BRYAN DORN VA FLOOR PLAN	
	CHECKED DATE: MARCH 21, 2011		ENGR:	FAUSTO ZAMUDIO		
	PLANT LOCATION: P48 (ENG SVCS – PROJECTS)		DATE:	MARCH 21, 2011	DWC# 27799512-070-01	
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						REV --



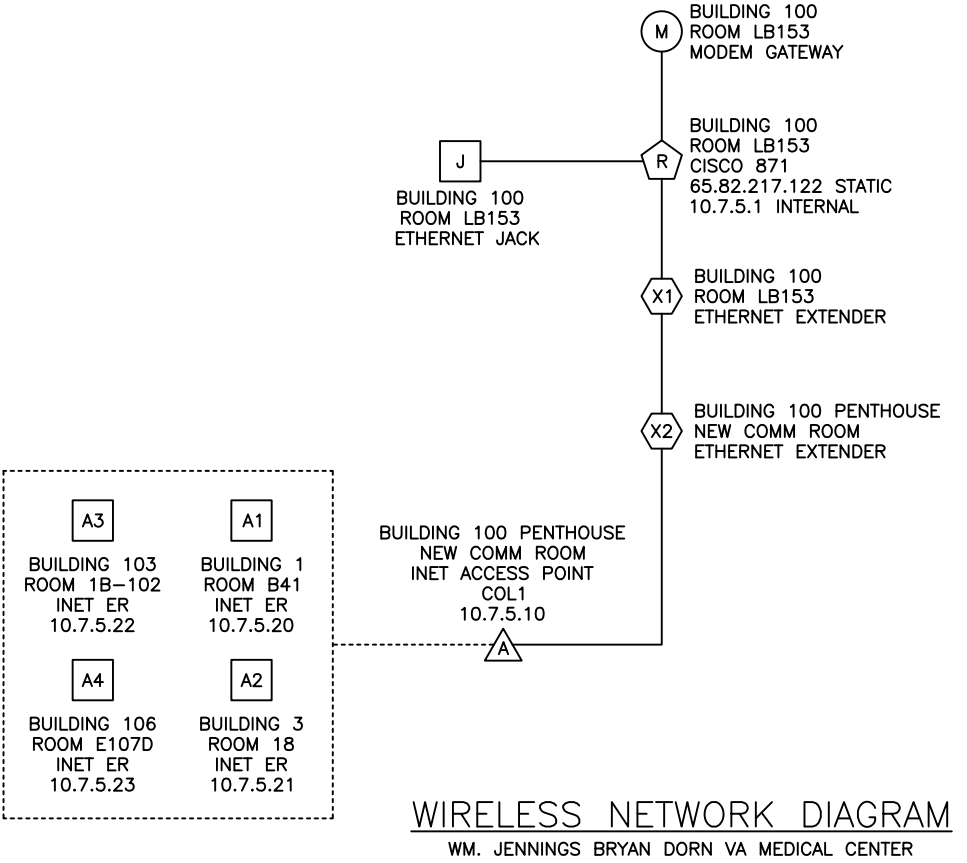
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BUILDING 100

ROOM LB153



NETWORK DIAGRAM  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER



WIRELESS LEGEND			
(M)	MODEM	(J)	ETHERNET JACK/DROP
(R)	ROUTER	(A)	RADIO ACCESS FPOINT
(X)	ETHERNET EXTENDER	(A1)	RADIO REMOTE
(X)	FIBER TRANSCEIVER	(B)	BULKHEAD LIGHTNING ARRESTER

NOTES:

- ELECTRICAL EQUIPMENT SHALL BE INSTALLED, OPERATED, SERVICED, AND MAINTAINED ONLY BY QUALIFIED PERSONNEL.
- ALL DETAILS LISTED HEREIN ARE FOR GENERAL REFERENCE ONLY AND SHALL BE USED ACCORDINGLY. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND NEC CODES. REFER TO PROVIDED SQUARE D POWERLOGIC FACTORY ASSEMBLED ENCLOSURES INSTRUCTION BULLETIN 63230-020-59 A1 FOR ADDITIONAL DETAILS, PERTAINING TO THE METER ENCLOSURE INSTALLATION.
- ALL ENCLOSURES PROVIDED BY SCHNEIDER ELECTRIC THAT WILL HOUSE REMOTE RADIOS PROVIDED BY THE WIRELESS CONTRACTOR WILL BE EQUIPPED WITH INTEGRATED LIGHTNING ARRESTORS INSTALLED. 24VDC CONTROL POWER WILL BE MADE AVAILABLE FOR POWERING.
- ALL WIRELESS NETWORK ENCLOSURES AND ITS ASSOCIATED CONTENTS, COAX CABLES/HARDWARE, ETHERNET JACKS, ANTENNAS, AND ALL OTHER MISCELLANEOUS HARDWARE NEEDED TO COMPLETE THE INSTALLATION OF THE WIRELESS SYSTEM IS THE RESPONSIBILITY OF THE WIRELESS CONTRACTOR AS DIRECTED BY SCHNEIDER ELECTRIC.
- ALL OUTDOOR COAX TERMINATIONS SHALL BE MADE WITH A SELF HEALING WEATHERPROOF TAPE SUCH AS 3M SCOTCH 2228 OR EQUAL.
- COAX CABLE MUST BE GROUNDED TO A PERMANENT SYSTEM GROUND.

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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:	VISN 7
	CHECKED BY: ALAN WATSON		DRAWN BY:	DONALD FREITAS	DRAWING TYPE: WM. JENNINGS BRYAN DORN VA NETWORK DIAGRAM	
	CHECKED DATE: MARCH 21, 2011		ENGR:	FAUSTO ZAMUDIO		
	PLANT LOCATION: P48 (ENG SVCS - PROJECTS)		DATE:	MARCH 21, 2011	DWG# 27799512-070-CM	
			DRAWING STATUS:	AS-BUILT		
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**BUILDING 1**

**ROOM B41**

ANTENNA  
TO BUILDING 100  
ACCESS POINT  
RADIO

**NEW WIRELESS NETWORK ENCLOSURE**  
(PROVIDED BY WIRELESS CONTRACTOR. SEE NOTE 4)

WIRELESS NETWORK ENCLOSURE: SSA05D000B0000

DETAIL A

INET-II  
(01)

CATS CROSSOVER CABLE

INET-II REMOTE RADIO  
IP ADDRESS: 10.7.5.20  
SUBNET MASK: 255.255.255.0  
DEFAULT GATEWAY: 10.7.5.1

CROSSOVER CABLE FURNISHED AND  
INSTALLED BY ELECTRICIAN CONTRACTOR

(REFER TO DWG. 27799512-070-01 PG. 02 FOR CUTSHEET TABLE)

**NEW (1) METER ENCLOSURE**  
(PROVIDED BY SCHNEIDER ELECTRIC. SEE NOTE 3)

DETAIL A

PM870RD  
W/PM8ECC  
(01)

7-COL-1-E3A  
SYSTEM ID: 40  
VOLTS: 480/277  
CT: 2500:5, DIRECT  
IP ADDRESS: 10.7.5.100  
SUBNET MASK: 255.255.255.0  
DEFAULT GATEWAY: 10.7.5.1

(REFER TO DWG. 27799512-070-01 PG. 02 FOR CUTSHEET TABLE)

COAXIAL CABLE FURNISHED AND  
INSTALLED BY WIRELESS CONTRACTOR

**BUILDING 3**

**ROOM 18**

ANTENNA  
TO BUILDING 100  
ACCESS POINT  
RADIO

**NEW WIRELESS NETWORK ENCLOSURE**  
(PROVIDED BY WIRELESS CONTRACTOR. SEE NOTE 4)

WIRELESS NETWORK ENCLOSURE: SSA05D000B0000

DETAIL A

INET-II  
(01)

CATS CROSSOVER CABLE

INET-II REMOTE RADIO  
IP ADDRESS: 10.7.5.21  
SUBNET MASK: 255.255.255.0  
DEFAULT GATEWAY: 10.7.5.1

CROSSOVER CABLE FURNISHED AND  
INSTALLED BY ELECTRICIAN CONTRACTOR

(REFER TO DWG. 27799512-070-01 PG. 02 FOR CUTSHEET TABLE)

**NEW (1) METER RETROFIT**  
(NEW METER IN EXISTING SWITCHGEAR, PROVIDED BY  
SCHNEIDER ELECTRIC.)

DETAIL A

PM870RD  
W/PM8ECC  
(01)

7-COL-3-E1A  
SYSTEM ID: 40  
VOLTS: 480/277  
CT: 2500:5, DIRECT  
(USE EXISTING CT'S & PT'S)  
IP ADDRESS: 10.7.5.101  
SUBNET MASK: 255.255.255.0  
DEFAULT GATEWAY: 10.7.5.1

(REFER TO DWG. 27799512-070-01 PG. 02 FOR CUTSHEET TABLE)

COAXIAL CABLE FURNISHED AND  
INSTALLED BY WIRELESS CONTRACTOR

**BUILDING 100**

**ROOM LB153**  
MODEM GATEWAY

**BUILDING 100**  
ROOM LB153  
CISCO 871  
65.82.217.122 STATIC  
10.7.5.1 INTERNAL

**BUILDING 100**  
ROOM LB153  
ETHERNET EXTENDER

**BUILDING 100 PENTHOUSE**  
NEW COMM ROOM  
ETHERNET EXTENDER

**BUILDING 100 PENTHOUSE**  
NEW COMM ROOM  
INET ACCESS POINT  
COL1  
10.7.5.10

**BUILDING 103**  
ROOM 1B-102  
INET ER  
10.7.5.22

**BUILDING 106**  
ROOM E107D  
INET ER  
10.7.5.23

**BUILDING 1**

**ROOM B41**  
INET ER  
10.7.5.20

**BUILDING 3**

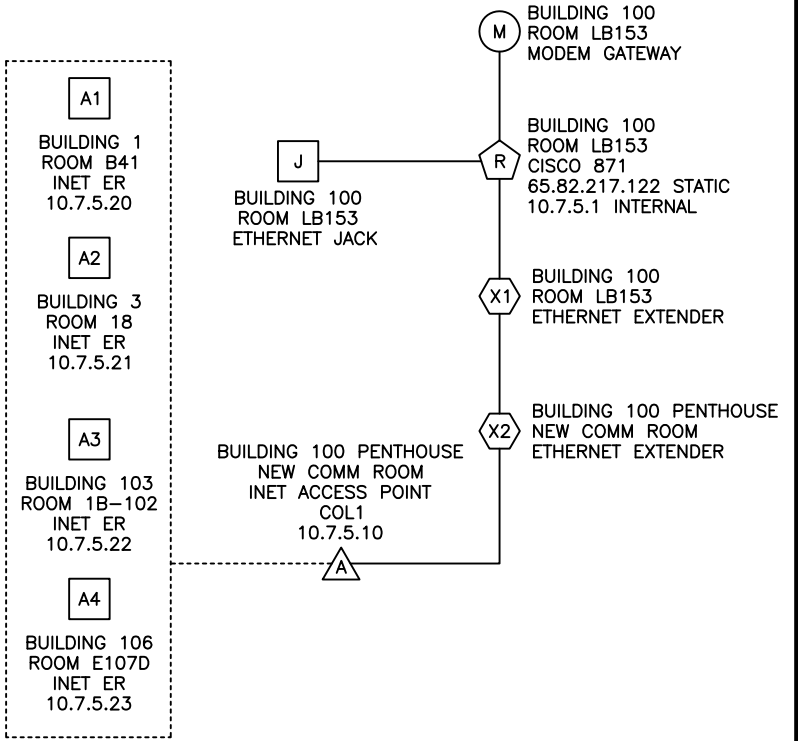
**ROOM 18**  
INET ER  
10.7.5.21

**BUILDING 100 PENTHOUSE**  
NEW COMM ROOM  
INET ACCESS POINT  
COL1  
10.7.5.10

**BUILDING 103**  
ROOM 1B-102  
INET ER  
10.7.5.22

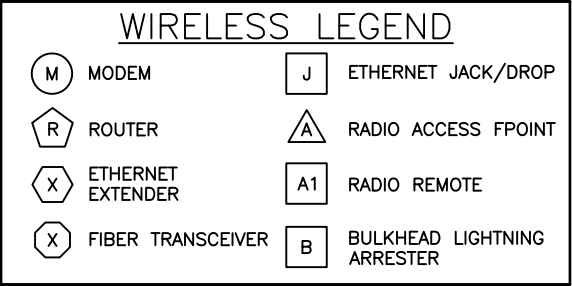
**BUILDING 106**  
ROOM E107D  
INET ER  
10.7.5.23

**WIRELESS NETWORK DIAGRAM**  
WM. JENNINGS BRYAN DORN VA MEDICAL CENTER



# WIRELESS NETWORK DIAGRAM

## WM. JENNINGS BRYAN DORN VA MEDICAL CENTER



1. ELECTRICAL EQUIPMENT SHALL BE INSTALLED, OPERATED, SERVICED, AND MAINTAINED ONLY BY QUALIFIED PERSONNEL.
2. ALL DETAILS LISTED HEREIN ARE FOR GENERAL REFERENCE ONLY AND SHALL BE USED ACCORDINGLY. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND NEC CODES. REFER TO PROVIDED SQUARE D POWERLOGIC FACTORY ASSEMBLED ENCLOSURES INSTRUCTION BULLETIN 63230-020-59 A1 FOR ADDITIONAL DETAILS, PERTAINING TO THE METER ENCLOSURE INSTALLATION.
3. ALL ENCLOSURES PROVIDED BY SCHNEIDER ELECTRIC THAT WILL HOUSE REMOTE RADIOS PROVIDED BY THE WIRELESS CONTRACTOR WILL BE EQUIPPED WITH INTEGRATED LIGHTNING ARRESTORS INSTALLED. 24VDC CONTROL POWER WILL BE MADE AVAILABLE FOR POWERING.
4. ALL WIRELESS NETWORK ENCLOSURES AND ITS ASSOCIATED CONTENTS, COAX CABLES/HARDWARE, ETHERNET JACKS, ANTENNAS, AND ALL OTHER MISCELLANEOUS HARDWARE NEEDED TO COMPLETE THE INSTALLATION OF THE WIRELESS SYSTEM IS THE RESPONSIBILITY OF THE WIRELESS CONTRACTOR AS DIRECTED BY SCHNEIDER ELECTRIC.
5. ALL OUTDOOR COAX TERMINATIONS SHALL BE MADE WITH A SELF HEALING WEATHERPROOF TAPE SUCH AS 3M SCOTCH 2228 OR EQUAL.
6. COAX CABLE MUST BE GROUNDED TO A PERMANENT SYSTEM GROUND.

SCHNEIDER ELECTRIC USA, INC.		JOB NAME:	WM. JENNINGS BRYAN DORN VA MEDICAL CENTER	EQUIPMENT DESIGNATION:	BUILDINGS 1, 3, 103 & 106			
		JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:	VISN 7			
		DRAWN BY:	DONALD FREITAS	DRAWING TYPE:	WM. JENNINGS BRYAN DORN VA NETWORK DIAGRAM			
CHECKED BY:	ALAN WATSON	ENGR:	FAUSTO ZAMUDIO	<div>Schneider Electric</div>				
CHECKED DATE:	MARCH 21, 2011	DATE:	MARCH 21, 2011					
PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)	DRAWING STATUS:	AS–BUILT	DWG#	27799512–070–CM	PG 10	OF 16	REV –

REV	DESCRIPTION	BY	DATE	-	----	--	--/--/--	-	----	--	--/--/--
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PIN 8 — BRN —

PIN 7 — WHT/BRN —

PIN 6 — ORG —

PIN 5 — WHT/BLU —

PIN 4 — BLU —

PIN 3 — WHT/ORG —

PIN 2 — GRN —

PIN 1 — WHT/GRN —

RECEIVE (3&6)

TRANSMIT (1&2)

PIN 1 — WHT/ORG —

PIN 2 — ORG —

PIN 3 — WHT/GRN —

PIN 4 — BLU —

PIN 5 — WHT/BLU —

PIN 6 — GRN —

PIN 7 — WHT/BRN —

PIN 8 — BRN —

TRANSMIT (1&2)

RECEIVE (3&6)

PIN 1

PIN 2

PIN 3

PIN 4

PIN 5

PIN 6

PIN 7

PIN 8

PIN 8

PIN 7

PIN 6

PIN 5

PIN 4

PIN 3

PIN 2

PIN 1

DETAIL A

CAT5 CROSSOVER CABLE WIRING

SHD

TX-

TX+

RX-

RX+

24 23 22 21 20

BELDEN 8723 CABLE FROM PREVIOUS DEVICE

BELDEN 8723 CABLE TO NEXT DEVICE

DETAIL B

BELDEN 8723 CABLE CONNECTION AT PM870RD (TYPICAL)

SHD

TX-

TX+

RX-

RX+

24 23 22 21 20

BELDEN 8723 CABLE FROM PREVIOUS DEVICE

3090MCTAS-485 NETWORK TERMINATOR

DETAIL C

BELDEN 8723 CABLE TERMINATION AT PM870RD (TYPICAL)

Rx

Tx

Tx-

Tx+

Rx-

Rx+

+

-

1 2 3 4 5 6 7 8

4-WIRE CONNECTION

Rx

Tx

Tx-

Tx+

Rx-

Rx+

+

-

1 2 3 4 5 6 7 8

TERM. BIAS JUMPER (2-WIRE)

UP/ON

DOWN/OFF

DETAIL D

PM800 SERIES DIP SWITCH SETTINGS FOR RS485 BIASING AND TERMINATION

## - ABC - ## - E#A,B,C...

VISN # SITE NAME BLDG # METERS IN ENCLOSURE

INSTALL TYPE:  
ENCLOSURE E1 = RETROFIT  
ENCLOSURE E3 = WALL MOUNT

DETAIL E

TYPICAL METER NAMING CONVENTION

GREEN

WHITE

RED

BLACK

SHIELD

6 5 4 3 2 1

TX+ TX- RX+ RX- SG SHD

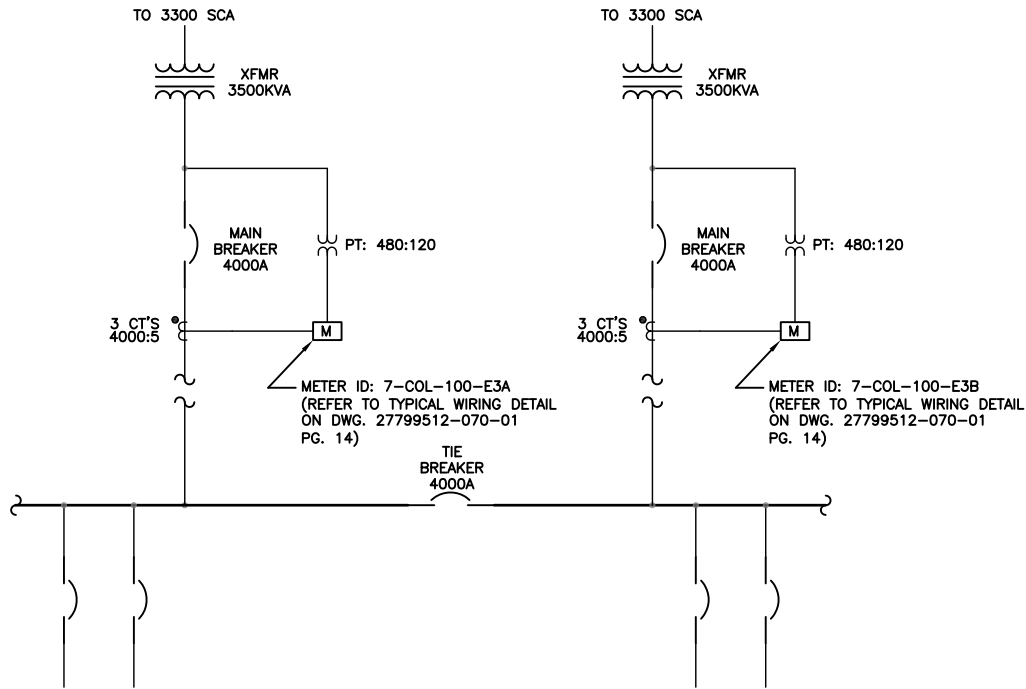
BELDEN 8723 CABLE

DETAIL F

BELDEN 8723 CABLE CONNECTION AT PM8ECC CARD (TYPICAL)

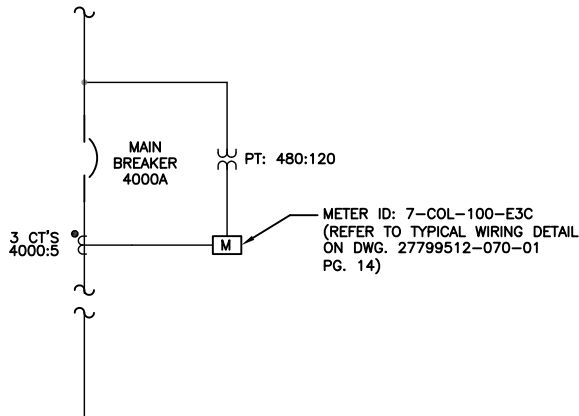
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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:			VISN 7		
	CHECKED BY:	ALAN WATSON	DRAWN BY:	DONALD FREITAS	DRAWING TYPE:			WM. JENNINGS BRYAN DORN VA NETWORK DETAILS		
	CHECKED DATE:	MARCH 21, 2011	ENGR:	FAUSTO ZAMUDIO	<div>Schneider Electric</div>					
	PLANT LOCATION:	P48 (ENG SVCS - PROJECTS)	DATE:	MARCH 21, 2011						
		DRAWING STATUS:	AS-BUILT	DWG#		27799512-070-CM	PG 11	OF 16	REV -	

REV	DESCRIPTION	BY	DATE										
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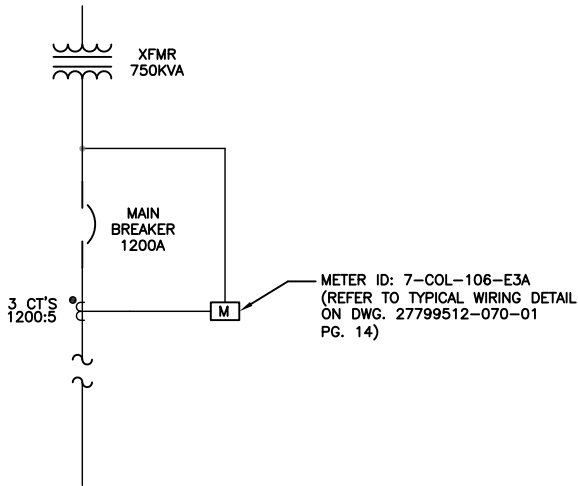
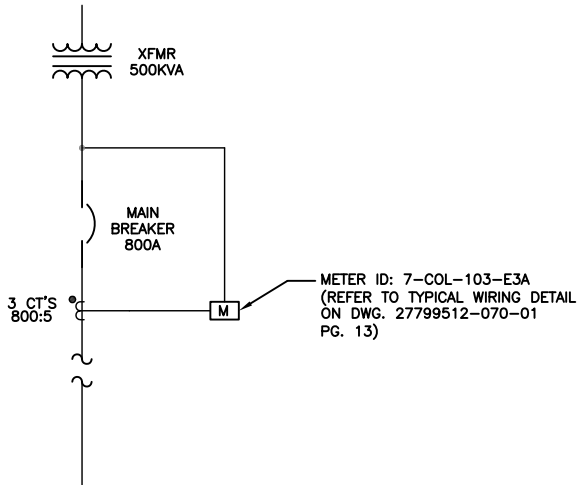
BUILDING 100, ROOM LB153 PARTIAL ONE-LINE

WM. JENNINGS BRYON DORN VA



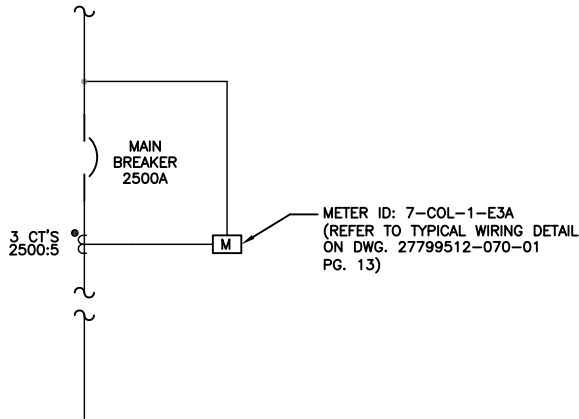
BUILDING 103, ROOM 1B-102 PARTIAL ONE-LINE

WM. JENNINGS BRYON DORN VA



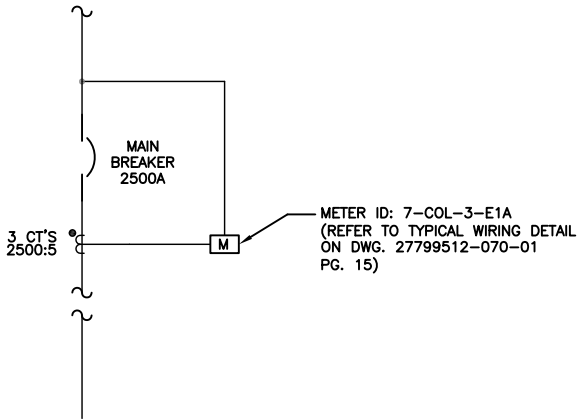
BUILDING 106, ROOM E107D PARTIAL ONE-LINE

WM. JENNINGS BRYON DORN VA



BUILDING 1, ROOM B41 PARTIAL ONE-LINE

WM. JENNINGS BRYON DORN VA

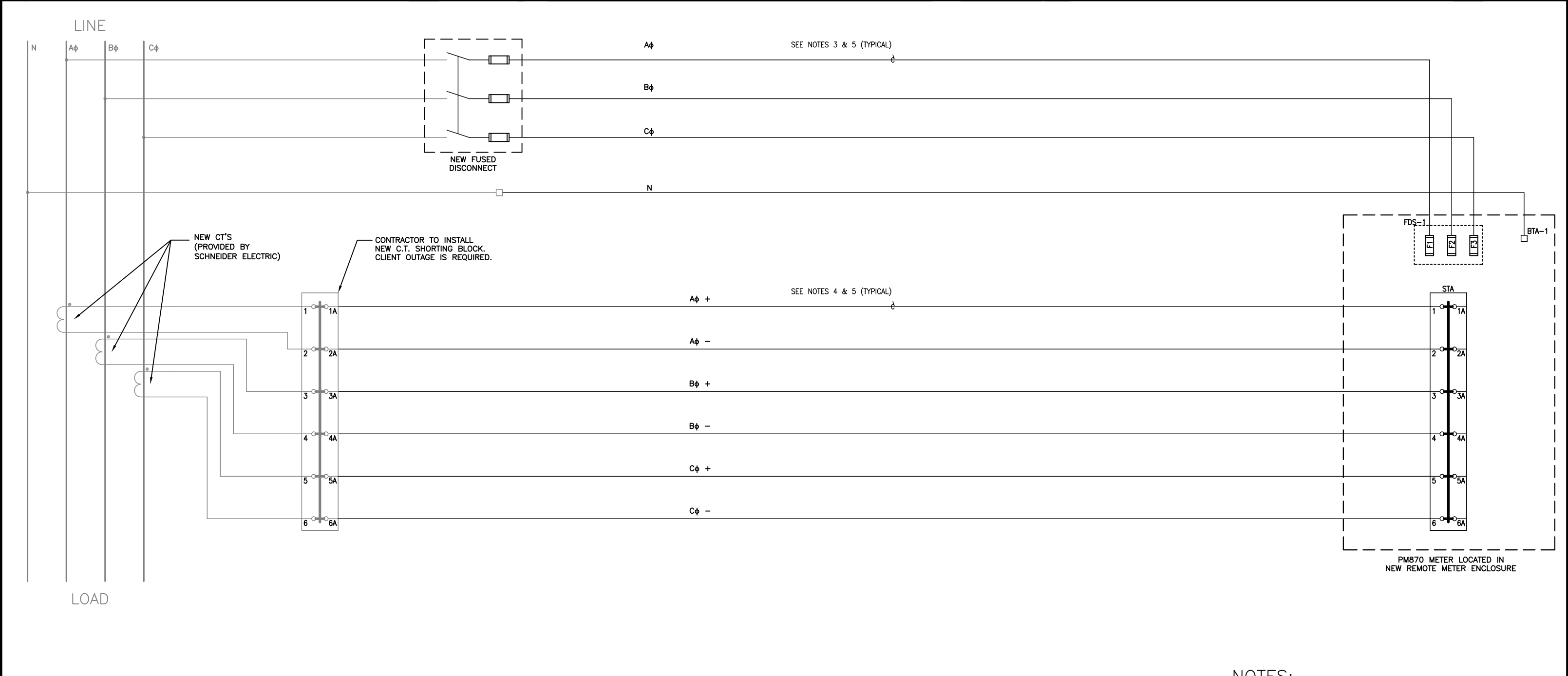


BUILDING 3, ROOM 18 PARTIAL ONE-LINE

WM. JENNINGS BRYON DORN VA

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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE:	VISN 7
	CHECKED BY:	ALAN WATSON	DRAWN BY:	DONALD FREITAS	DRAWING TYPE:	WM. JENNINGS BRYAN DORN VA PARTIAL ONE-LINE
	CHECKED DATE:	MARCH 21, 2011	ENGR:	FAUSTO ZAMUDIO		
	PLANT LOCATION:	P48 (ENG SVCS - PROJECTS)	DATE:	MARCH 21, 2011		
			DRAWING STATUS:	AS-BUILT	DWG#	27799512-070-01
						PG 12 OF 16
						REV -

REV	DESCRIPTION	BY	DATE										
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NOTES:

- REFERENCE DRAWING PACKAGE: 9761E0870R1C3B1C-SPL2 FOR DETAILS FOR METER ENCLOSURES: 7-COL-1-E3A, 7-COL-103-E3A.

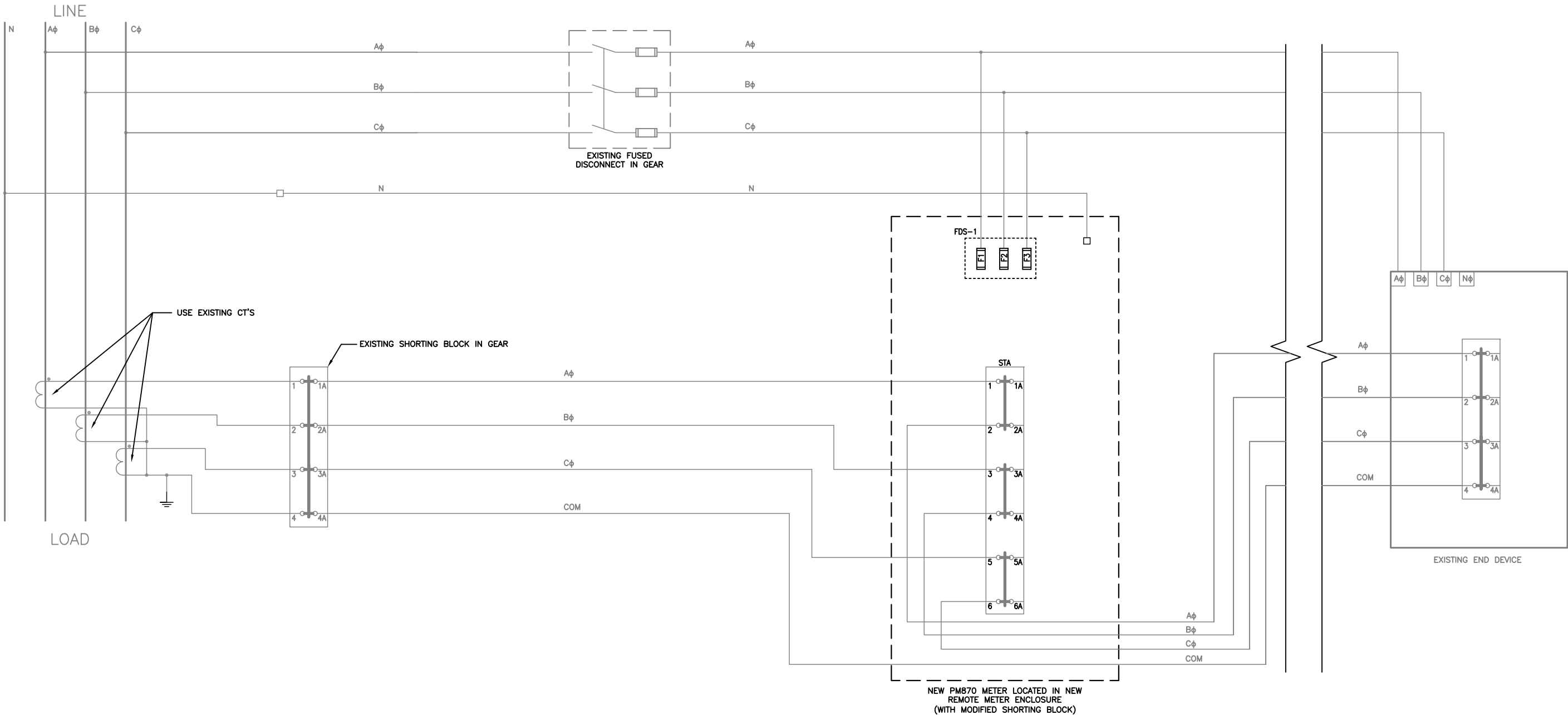
NOTES:

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- ALL DETAILS LISTED HEREIN ARE FOR GENERAL REFERENCE ONLY AND SHALL BE USED ACCORDINGLY. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND NEC CODES. REFER TO PROVIDED SQUARE D POWERLOGIC FACTORY ASSEMBLED ENCLOSURES INSTRUCTION BULLETIN 63230-020-59 A1 FOR ADDITIONAL DETAILS.
- ALL VOLTAGE CIRCUITS SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATION. 14AWG STRANDED COPPER 90° C 600 VOLT MTW OR EQUIVALENT.
- ALL CURRENT CIRCUITS SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATION. 12AWG STRANDED COPPER 90° C 600 VOLT MTW OR EQUIVALENT.
- TO INSURE MAXIMUM ACCURACY MONITORING EQUIPMENT SHALL BE INSTALLED AS CLOSE TO THE SOURCE AS POSSIBLE. VOLTAGE AND CURRENT CIRCUITS SHALL NOT EXCEED ONE HUNDRED FEET IN DISTANCE.

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SCHNEIDER ELECTRIC USA, INC.		JOB NAME:	WM. JENNINGS BRYAN DORN VA MEDICAL CENTER	EQUIPMENT DESIGNATION: TYPICAL NEW METER ENCLOSURE ( SYSTEM ID 40)					
		JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE: VISN 7					
		DRAWN BY:	DONALD FREITAS	DRAWING TYPE: WM. JENNINGS BRYAN DORN VA WIRING SCHEMATIC					
		ENGR:	FAUSTO ZAMUDIO	<div>Schneider Electric</div>					
CHECKED BY: ALAN WATSON		DATE: MARCH 21, 2011							
CHECKED DATE: MARCH 21, 2011		DRAWING STATUS: AS-BUILT		DWG# 27799512-070-01			PG 13	OF 16	REV -
PLANT LOCATION: P48 (ENG SVCS - PROJECTS)									

REV	DESCRIPTION	BY	DATE	-	----	--	--/--/--	-	----	--	--/--/--
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NOTES:

- REFERENCE DRAWING PACKAGE: 9761E0870R1C3B1C–SPL3 FOR DETAILS FOR METER ENCLOSURES: 7–COL–106–E3A, 7–COL–100–E3A,
- REFERENCE DRAWING PACKAGE: 9761E0870R3B1B1C1–SPL1 FOR DETAILS FOR METER ENCLOSURES: 7–COL–100–E3A, 7–COL–100–E3B, 7–COL–100–E3C.

NEW ELECTRICAL METER INSTALLATION

TYPICAL FOR METERS: 7–COL–106–E3A, 7–COL–100–E3A,  
7–COL–100–E3B, 7–COL–100–E3C

NOTES:

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- ALL VOLTAGE CIRCUITS SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATION. 14AWG STRANDED COPPER 90° C 600 VOLT MTW OR EQUIVALENT.
- ALL CURRENT CIRCUITS SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATION. 12AWG STRANDED COPPER 90° C 600 VOLT MTW OR EQUIVALENT.
- TO INSURE MAXIMUM ACCURACY MONITORING EQUIPMENT SHALL BE INSTALLED AS CLOSE TO THE SOURCE AS POSSIBLE. VOLTAGE AND CURRENT CIRCUITS SHALL NOT EXCEED ONE HUNDRED FEET IN DISTANCE.

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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE: VISN 7			
			DRAWN BY:	DONALD FREITAS	DRAWING TYPE: WM. JENNINGS BRYAN DORN VA WIRING SCHEMATIC			
	CHECKED BY:	ALAN WATSON	ENGR:	FAUSTO ZAMUDIO	<div>Schneider Electric</div>			
	CHECKED DATE:	MARCH 21, 2011	DATE:	MARCH 21, 2011				
	PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)		DRAWING STATUS:	AS–BUILT	DWG#	27799512–070–01	PG 14 OF 16

REV	DESCRIPTION	BY	DATE	-	----	--	--/--/--	-	----	--	--/--/--
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NOTES:

- REFERENCE DRAWING 27799512-070-01 PG. 17 FOR DETAILS FOR METER ENCLOSURES: 7-COL-3-E1A.

NOTES:

- ELECTRICAL EQUIPMENT SHALL BE INSTALLED, OPERATED, SERVICED, AND MAINTAINED ONLY BY QUALIFIED PERSONNEL.
- ALL DETAILS LISTED HEREIN ARE FOR GENERAL REFERENCE ONLY AND SHALL BE USED ACCORDINGLY. EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ALL LOCAL AND NEC CODES. REFER TO PROVIDED SQUARE D POWERLOGIC FACTORY ASSEMBLED ENCLOSURES INSTRUCTION BULLETIN 63230-020-59 A1 FOR ADDITIONAL DETAILS.
- ALL VOLTAGE CIRCUITS SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATION. 14AWG STRANDED COPPER 90° C 600 VOLT MTW OR EQUIVALENT.
- ALL CURRENT CIRCUITS SHALL MEET OR EXCEED THE FOLLOWING SPECIFICATION. 12AWG STRANDED COPPER 90° C 600 VOLT MTW OR EQUIVALENT.
- TO INSURE MAXIMUM ACCURACY MONITORING EQUIPMENT SHALL BE INSTALLED AS CLOSE TO THE SOURCE AS POSSIBLE. VOLTAGE AND CURRENT CIRCUITS SHALL NOT EXCEED ONE HUNDRED FEET IN DISTANCE.

RETROFIT ELECTRICAL METER INSTALLATION

TYPICAL FOR METER: 7-COL-3-E1A

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			JOB LOCATION:	COLUMBIA, SOUTH CAROLINA	EQUIPMENT TYPE: VISN 7			
			DRAWN BY:	DONALD FREITAS	DRAWING TYPE: WM. JENNINGS BRYAN DORN VA WIRING SCHEMATIC			
	CHECKED BY:	ALAN WATSON	ENGR:	FAUSTO ZAMUDIO	<div>Schneider Electric</div>			
	CHECKED DATE:	MARCH 21, 2011	DATE:	MARCH 21, 2011				
	PLANT LOCATION:	P48 (ENG SVCS – PROJECTS)		DRAWING STATUS:	AS–BUILT	DWG#	27799512–070–01	PG 15 OF 16

