

Conduit Required						
Run No.	From	To	Conduit Quantity	Cable Type*	Minimum Conduit Size	Maximum Conduit Length
C 1	CB1	ST	1	(P)	3/4"	50'
C 2	CB2	ST	1	(P)	3/4"	50'
B 3	CB1	ME	1	(P)	2"	--
B 4	CB2	MR	1	(P)	1-1/2"	--
C 5	MR	VL	1	(S)	1/2"	50'
C 6	MR	DS	1	(S)	1/2"	50'
A 7	ME	BVS	1	(S)	2"	45'
A 8	MR	BVS	1	(S)	2"	45'
A 9	MR	BVS	1	(P)	2"	45'
A 10	MB	TV	1	(P)	1-1/2"	55'
A 11	MB	TV	1	(S)	1-1/2"	55'
A 12	MB	VR	1	(S)	2"	55'
A 13	MR	IB	1	(S)	2"	55'
A 14	ME	ML	1	(H)	2-1/2"	39'
A 15	ME	ML	1	(S)	2"	39'
A 16	MR	ML	1	(P)	2-1/2"	39'
A 17	MR	ML	1	(S)	2-1/2"	39'

**Special Requirements**

Optional (72) cables can be ordered

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Optional (45) cables can be ordered

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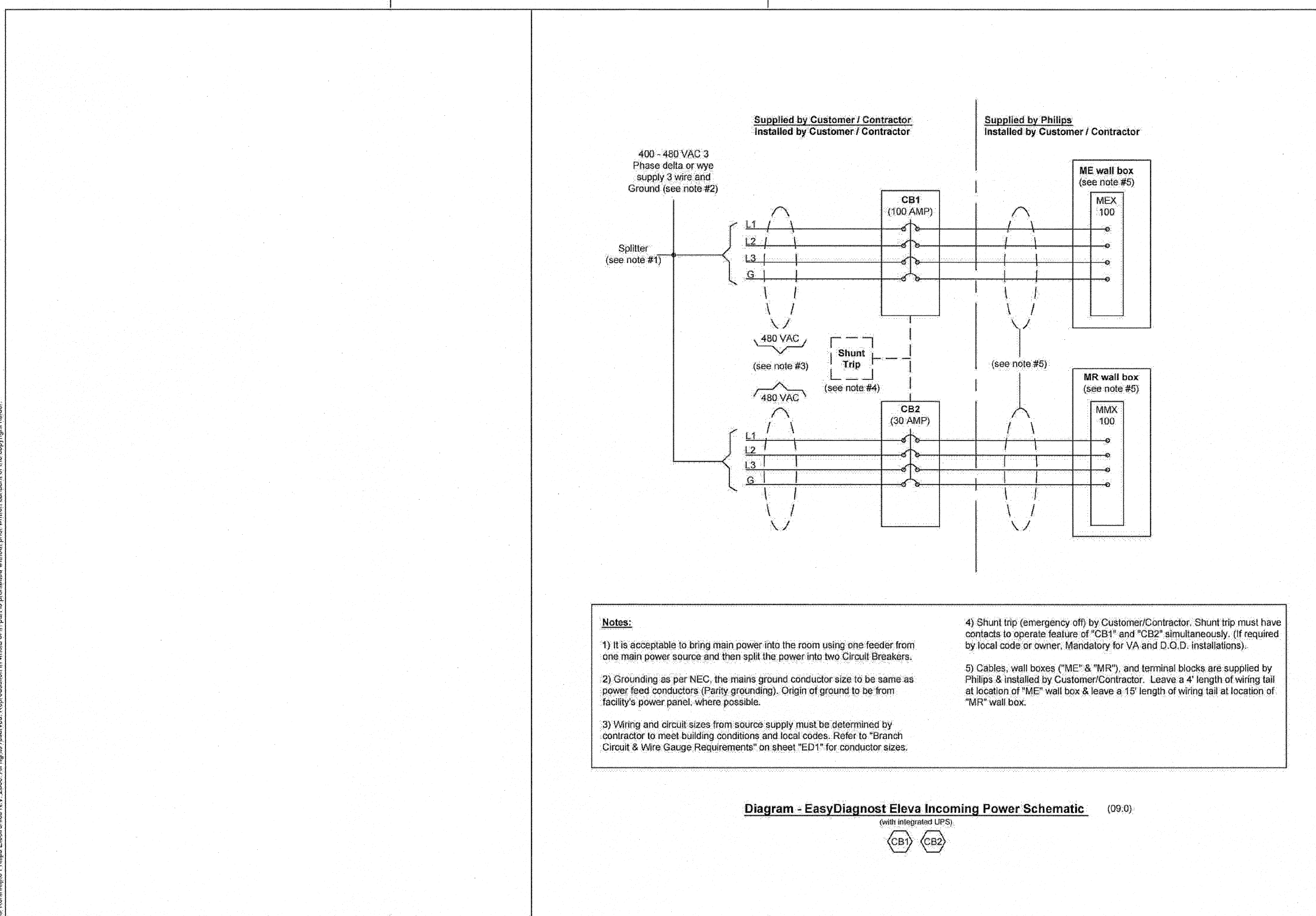
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**Project Details:**  
Drawing Number: N-EAS100872A  
Date: 06/21/2010  
Drawn By: J.P. Garabedian

**Project Contacts:**  
Project Manager: Wayne Evin  
Contract Number: 207-65-0346  
Email: wevin@philips.com

**Project:**  
EasyDiagnost Eleva  
Maine Medical Center  
Portland, ME  
Room 5

**E2**



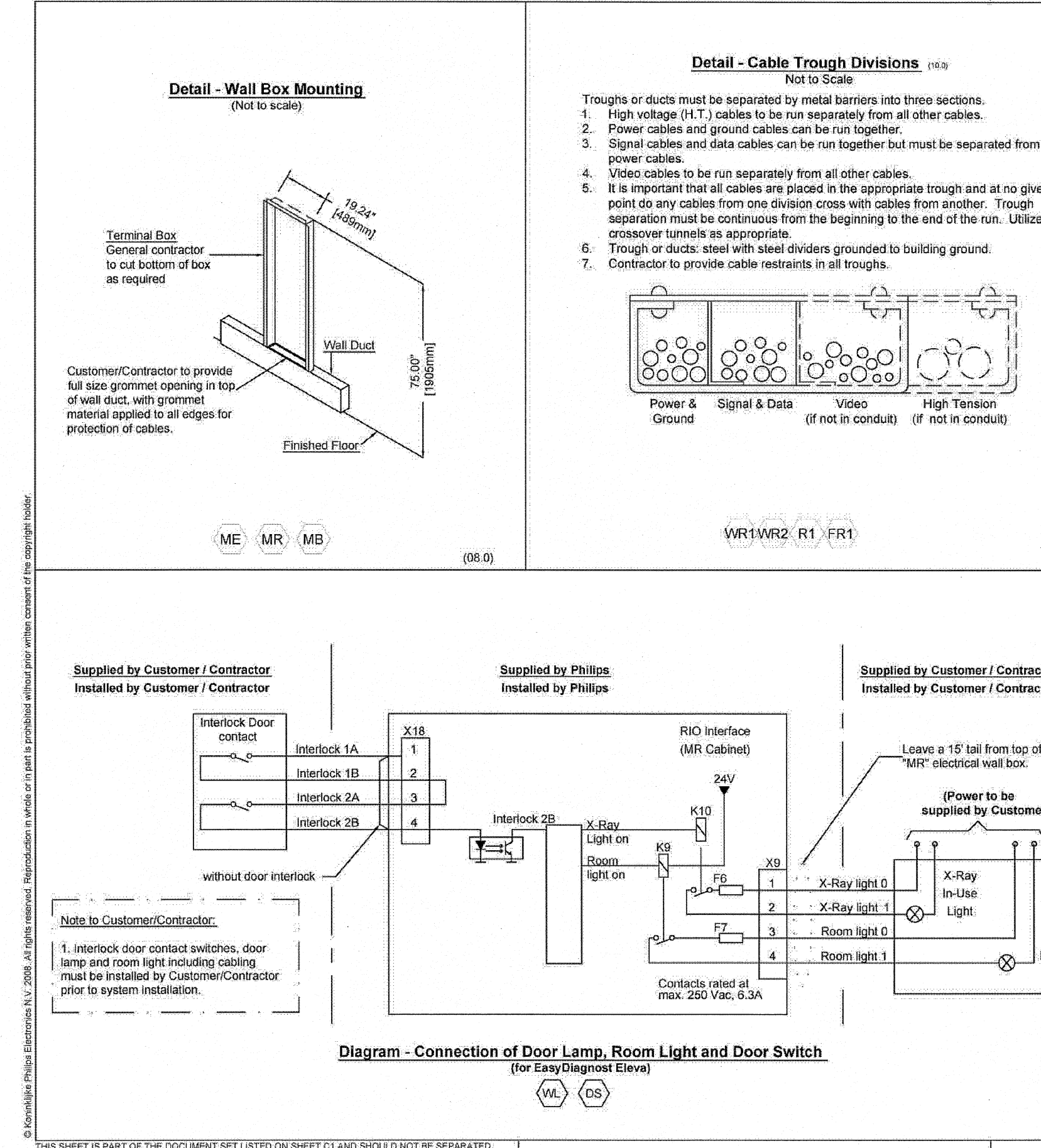
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**ED2**



**Power Quality Requirements**  
Velara 60KW Generator

Power Output: 60KW  
Supply Configuration: 3 phase, 3 wire power and ground, Delta or wye  
3 phase, 4 wire power w/ Neutral + ground, wye

Nominal Line Voltage: 400, 440, 460, or 480 VAC; 60 Hz  
Line Voltage Variation: ± 10% steady-state  
Line Voltage Balance: 2% maximum of nominal voltage between phases ± 1.0 Hz

Voltage Surges: To 110% of steady-state voltage 100 msec. Maximum duration, 6 per hour maximum

Voltage Sags: To 90% of steady-state voltage 100 msec. Maximum duration, 6 per hour maximum

Line Impulses: 1000 VPK above phase-neutral RMS absolute maximum. No more than 1 impulse per hour to exceed 500 VPK.

Neutral-Ground Voltage: 2.0 volts maximum RMS value  
Neutral-Ground Impulses: No more than 1 per hour that exceeds 25 volts and 1 impulse

High Frequency Noise: 3.0 volts steady-state maximum. Over 3.0 volts permitted for 100 msec, maximum, 1 per hour max.

Grounded Conductor Impedance: 0.1 Ohms @ 60 Hz maximum

**Branch Circuit and Wire Gauge Requirements**  
Velara 60KW Generator

Branch Power:	167 KVA	440VAC	480VAC	480VAC
Circuit Breaker to ME (CB1):	3 pole, 100ampers (@ 480V)	90A	97A	98A
Circuit Breaker to MR (CB2):	3 pole, 30ampers (@ 480V)	100A	110A	118A
Maximum Instantaneous Power:	160 KVA @ 100 KVP, 800 mA (Short Term)	120A	138A	150A
Maximum Stand-By Current:	< 8Amps @ 3 mA, 110 KVP continuous (Long Term)	160A	176A	190A
Recommended conductor sizes for 1% impedance of branch conductors to circuit breaker (CB1), provide splitter to CB2.	Based on 20' copper conductors:	180A	204A	242A
#1 AWG	400 VAC	440VAC	480VAC	480VAC
2/0 AWG	90A	97A	98A	100A
3/0 AWG	120A	138A	150A	160A
4/0 AWG	160A	176A	190A	200A
250 KCM	190A	208A	228A	242A
300 KCM	239A	268A	312A	340A
Maximum Instant Current @ CB Panel:	230 A	210 A	200 A	192 A
Maximum Phase-phase impedance @ CB Panel:	0.095 Ω	0.120 Ω	0.135 Ω	0.150 Ω
Maximum Load Voltage Drop @ CB Panel:	21.9 V	25.2 V	27.0 V	28.8 V
Percent Regulation at Maximum Load @ CB Panel:	6.5%	5.7%	5.9%	6.0%
Circuit Breaker to ME (CB1):	400 VAC - 480 VAC	#1 AWG 50R max.		
Circuit Breaker to MR (CB2):	400 VAC - 480 VAC	#10 AWG 50R max.		

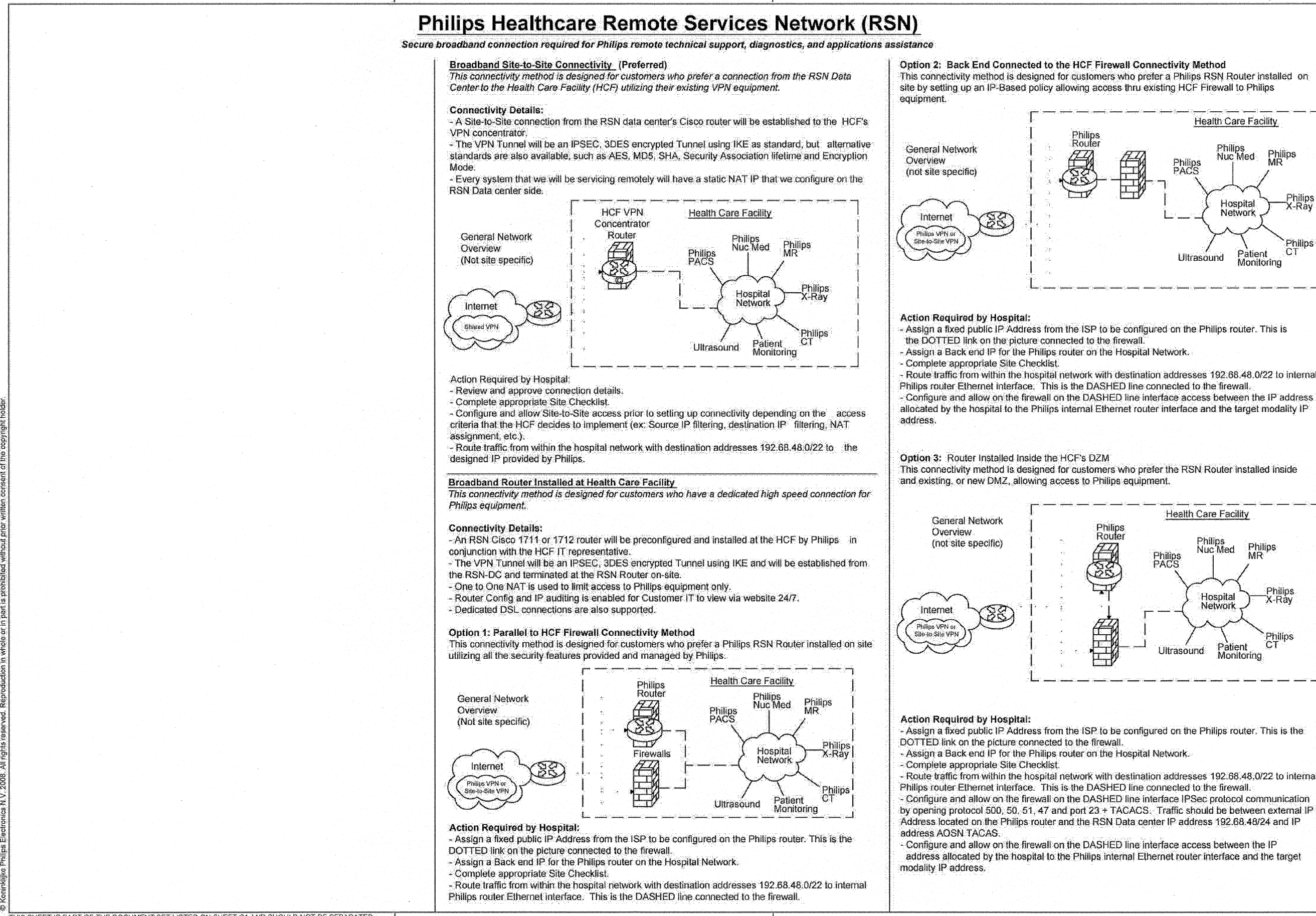
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**ED1**



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Maine Medical Center  
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**N1**

NOTE: THIS DRAWING WAS NOT PREPARED BY SMRT. IT IS PROVIDED FOR COORDINATION AND REFERENCE PURPOSES ONLY.

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PROJECT NORTH

BRAMHILL RADIOLOGY  
FLUORO RENOVATIONS  
PORTLAND, ME

ISSUED FOR CONSTRUCTION  
8.24.10

REV	DATE	DESCRIPTION	CURRENT ISSUE STATUS
0	8-24-10		

GRAPHIC SCALE:  
0' 1'

SCALE:  
PROJECT MANAGER: DIV  
DRAWN BY: DIV  
DATE OF RECORD: DIV  
PROJECT NO.: 09022-02  
DATE: 8.24.10

SHEET TITLE:  
VENDOR EQUIPMENT  
DRAWINGS SHEET 5

SHEET NO.:  
Q-005