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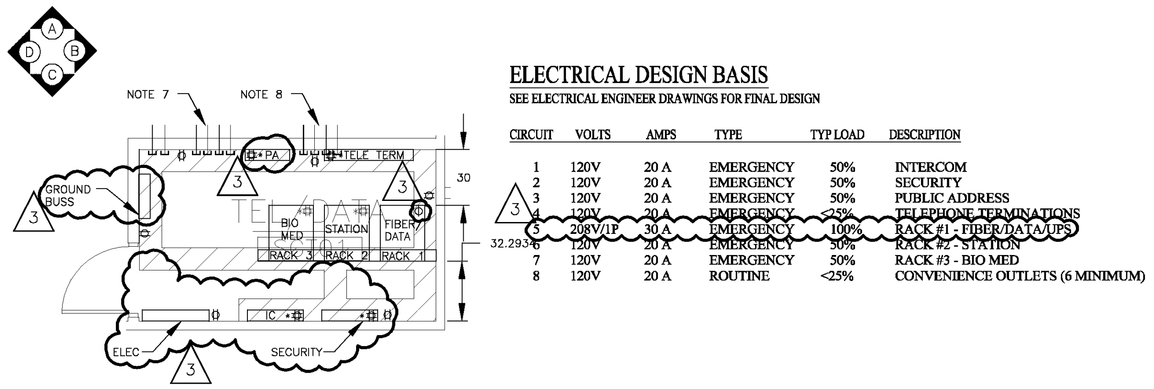
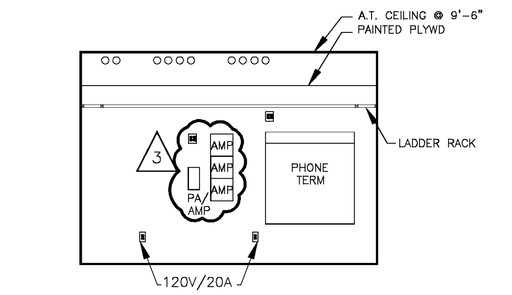


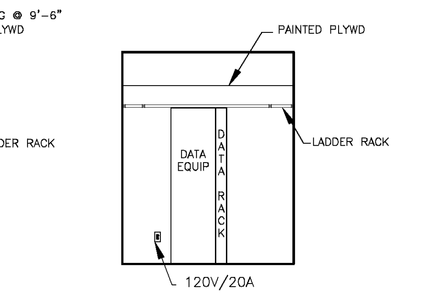
ELECTRICAL DESIGN BASIS

SEE ELECTRICAL ENGINEER DRAWINGS FOR FINAL DESIGN

CIRCUIT	VOLTS	AMPS	TYPE	TYP LOAD	DESCRIPTION
1	120V	20 A	EMERGENCY	50%	INTERCOM
2	120V	20 A	EMERGENCY	50%	SECURITY
3	120V	20 A	EMERGENCY	50%	PUBLIC ADDRESS
4	120V	20 A	EMERGENCY	<25%	TELEPHONE TERMINATIONS
5	208V/1P	30 A	EMERGENCY	100%	RACK #1 - FIBER/DATA/UPS
6	120V	20 A	EMERGENCY	50%	RACK #2 - STATION
7	120V	20 A	EMERGENCY	50%	RACK #3 - BIO MED
8	120V	20 A	ROUTINE	<25%	CONVENIENCE OUTLETS (6 MINIMUM)



A COMM. ELEVATION 'A'



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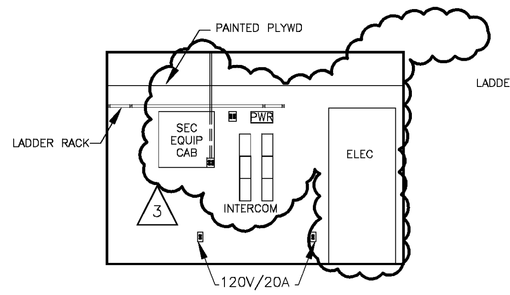
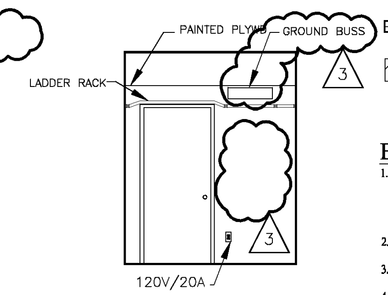


C COMM. ELEVATION 'C'



D COMM. ELEVATION 'D'

LEGEND:

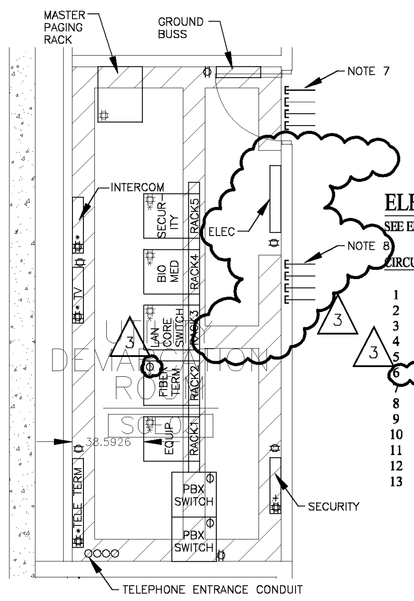
ALL POWER TO BE CONNECTED TO EMERGENCY GENERATOR (EXCEPT WHERE NOTED)

- = 208V / 1P, 30 A.
- = CONDUIT FROM FLOOR BELOW
- = DUPLEX OUTLET; 120 V, 20 A.
- = QUAD OUTLET; 120 V, 20 A
- = MOUNT A 78" AFF OR 60" AFF ON BACK OF RACK
- = MOUNT FLUSH IN FLOOR
- = PIPE DIRECTLY INTO CABINET
- = 4" SLEEVE TO CABLE TRAY, OR HORIZONTAL RISER CONDUIT - TO ENTER ROOM AT 9'-6" AFF, EXCEPT WHERE NOTED (BY EC) SEE NOTE 7.
- = LADDER RACK ABOVE. MOUNT TO TOP OF DATA RACKS.

EQUIPMENT ROOM NOTES:

1. PROVIDE DRYWALL TO DESK ON ALL WALLS. PROVIDE ¾" FIRE RETARDING PLYWOOD FROM FLOOR TO 96" ON ALL WALLS AFTER DRYWALL IS INSTALLED. PLYWOOD SHALL BE INSTALLED USING FLAT-HEAD SCREWS THEREBY PROVIDING A SMOOTH, UNOBSTRUCTED MOUNTING SURFACE. PAINT WITH TWO COATS OF WHITE PAINT. DO NOT PAINT OVER THE "FIRE RETARDANT" STAMP FOR THE INSPECTOR TO SEE.
2. GROUND ALL LADDER RACKS AND EQUIPMENT CABINETS TO GROUND BUS WITH #6 AWG COPPER GROUND WIRE.
3. VENDOR SPECIFIC INFORMATION MAY ALTER REQUIREMENTS, SEE COMMUNICATIONS VENDOR DRAWINGS.
4. ALL CIRCUITS ARE DEDICATED FOR PURPOSE DESCRIBED.
5. HVAC DESIGNER TO ASSUME 80% OF TYPICAL POWER LOAD WILL BE CONVERTED TO HEAT AND MUST BE EXHAUSTED FROM ROOM.
6. VERIFY POWER REQUIREMENTS OF PATIENT MONITORING SYSTEMS WITH VENDOR DRAWINGS.
7. EC SHALL PROVIDE QUANTITY OF SLEEVES WITH CAPACITY EQUAL TO HOOK/CABLE TRAY SYSTEM WITH SLEEVES AT 40% FULL.
8. EC SHALL PROVIDE QUALITY OF SLEEVES TO MATCH RISER DIAGRAM.
9. FLOORS SHALL BE SEALED CONCRETE OR COVERED WITH NON-STATIC FLOORING.
10. NO FINISHED CEILING IS REQUIRED BUT LIGHTING SHOULD BE PROVIDED IN FRONT AND BEHIND RACKS.
11. NO WATER OR STEAM CARRING PIPES OF ANY KIND SHALL PASS THROUGH THE ROOMS IN THE ABOVE CEILING AND DUCKWORK MUST BE KEPT TO A MINIMUM AND PLACED AS HIGH AS POSSIBLE (NO MAIN TRUNK LINES SHALL PASS THROUGH THE IN ABOVE CEILING).

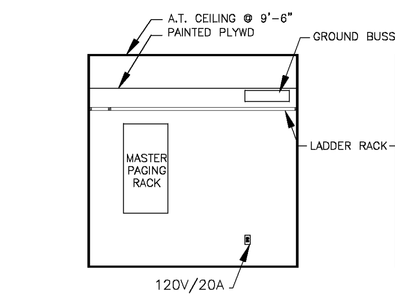
1 TEL/DATA - SGT01 COMMUNICATION EQUIPMENT ROOM



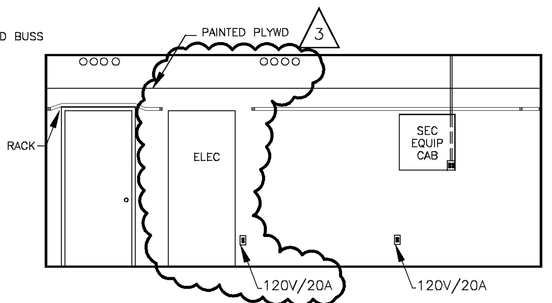
ELECTRICAL DESIGN BASIS

SEE ELECTRICAL ENGINEER DRAWINGS FOR FINAL DESIGN

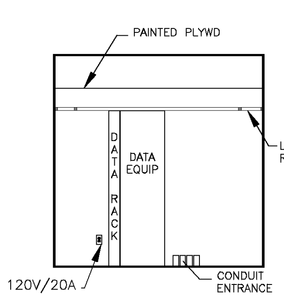
CIRCUIT	VOLTS	AMPS	TYPE	TYP LOAD	DESCRIPTION
1	120V	20 A	EMERGENCY	50%	INTERCOM
2	120V	20 A	EMERGENCY	50%	MASTER PAGING RACK
3	120V	20 A	EMERGENCY	50%	TELEVISION TERMINATIONS
4	120V	20 A	EMERGENCY	<25%	TELEPHONE TERMINATIONS
5	120V	20 A	EMERGENCY	50%	RACK #1 - EQUIP
6	208V/1P	60 A	EMERGENCY	50%	RACK #2 - FIBER TERM/UPS
7	120V	20 A	EMERGENCY	50%	RACK #3 - LAN CORE SWITCH
8	120V	20 A	EMERGENCY	50%	RACK #4 - BIO MED
9	120V	20 A	EMERGENCY	75%	RACK #5 - SECURITY
10	120V	20 A	EMERGENCY	50%	SECURITY EQUIPMENT PANEL
11	208V/1P	30 A	EMERGENCY	50%	PBX CABINET #1
12	208V/1P	30 A	EMERGENCY	50%	PBX UPS #1
13	120V	20 A	ROUTINE	<25%	CONVENIENCE OUTLETS (6 MINIMUM)



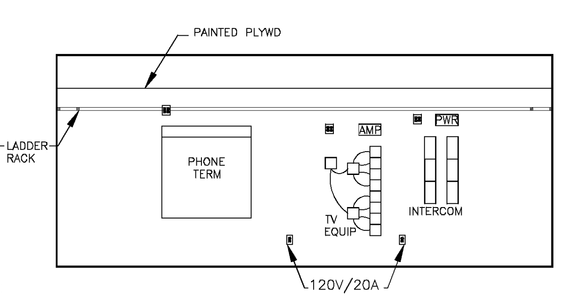
A COMM. ELEVATION 'A'



B COMM. ELEVATION 'B'

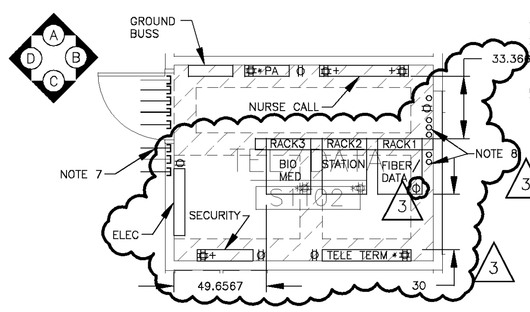


C COMM. ELEVATION 'C'



D COMM. ELEVATION 'D'

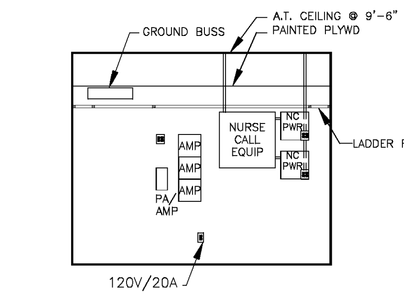
2 UTILITY DEMARCATION ROOM - SGE03 COMMUNICATION EQUIPMENT ROOM



ELECTRICAL DESIGN BASIS

SEE ELECTRICAL ENGINEER DRAWINGS FOR FINAL DESIGN

CIRCUIT	VOLTS	AMPS	TYPE	TYP LOAD	DESCRIPTION
1	120V	20 A	EMERGENCY	50%	SECURITY
2	120V	20 A	EMERGENCY	50%	PUBLIC ADDRESS
3	120V	20 A	EMERGENCY	50%	TELEVISION TERMINATIONS
4	120V	20 A	EMERGENCY	<25%	TELEPHONE TERMINATIONS
5	208V/1P	30 A	EMERGENCY	100%	RACK #1 - FIBER/DATA/UPS
6	120V	20 A	EMERGENCY	50%	RACK #2 - STATION
7	120V	20 A	EMERGENCY	50%	RACK #3 - BIO MED
8	120V	20 A	ROUTINE	<25%	CONVENIENCE OUTLETS (6 MINIMUM)



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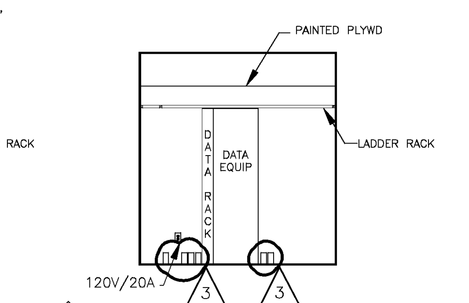
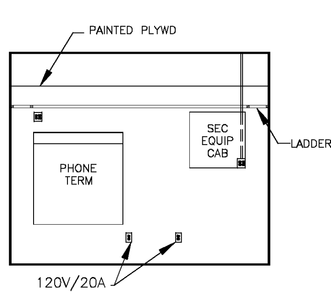
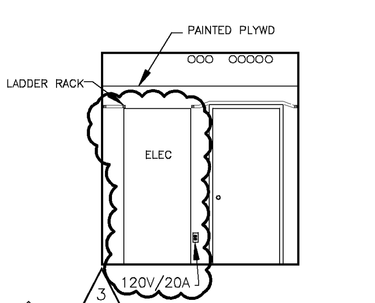


B COMM. ELEVATION 'B'

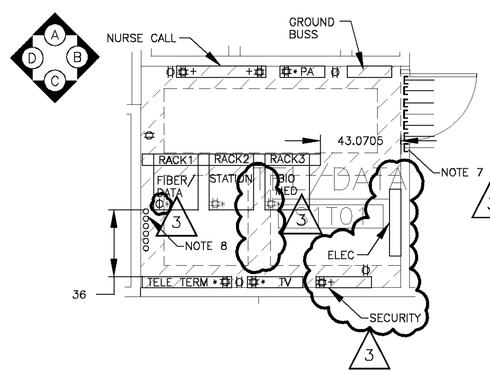


C COMM. ELEVATION 'C'



D COMM. ELEVATION 'D'

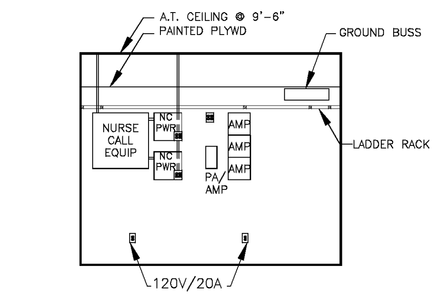
3 TEL/DATA - S1T02 COMMUNICATION EQUIPMENT ROOM



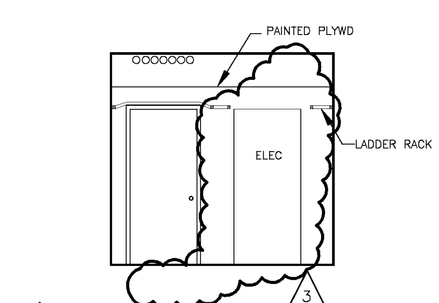
ELECTRICAL DESIGN BASIS

SEE ELECTRICAL ENGINEER DRAWINGS FOR FINAL DESIGN

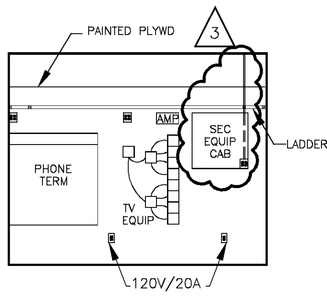
CIRCUIT	VOLTS	AMPS	TYPE	TYP LOAD	DESCRIPTION
1	120V	20 A	EMERGENCY	50%	SECURITY
2	120V	20 A	EMERGENCY	50%	PUBLIC ADDRESS
3	120V	20 A	EMERGENCY	50%	TELEVISION TERMINATIONS
4	120V	20 A	EMERGENCY	<25%	TELEPHONE TERMINATIONS
5	208V/1P	30 A	EMERGENCY	100%	RACK #1 - FIBER/DATA/UPS
6	120V	20 A	EMERGENCY	50%	RACK #2 - STATION
7	120V	20 A	EMERGENCY	50%	RACK #3 - BIO MED
8	120V	20 A	ROUTINE	<25%	CONVENIENCE OUTLETS (6 MINIMUM)



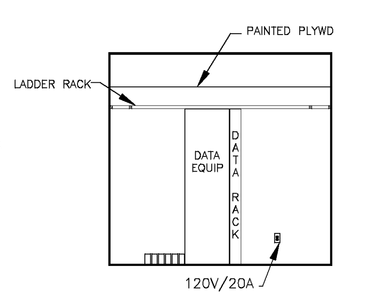
A COMM. ELEVATION 'A'



B COMM. ELEVATION 'B'



C COMM. ELEVATION 'C'



D COMM. ELEVATION 'D'

4 TEL/DATA - S1T01 COMMUNICATION EQUIPMENT ROOM

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PLOT DATE: 24 AUG 2007
TIME: 24 AUG 2007 - 1:29PM

Issued: 11/10/06

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Revisions:
1 SI029 04/13/07
2 SI037 08/24/07

GB&A # 1515.1

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Portland, Maine
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Sheet No.

1 Medical Communications Equipment Room

CM.03A