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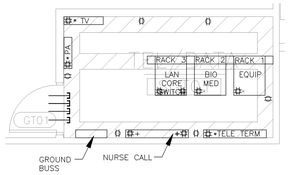
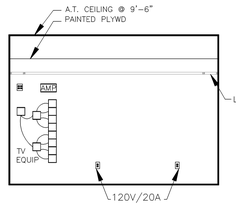


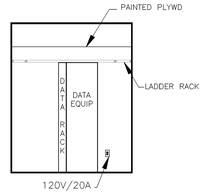
ELECTRICAL DESIGN BASIS

SEE ELECTRICAL ENGINEER DRAWINGS FOR FINAL DESIGN

CIRCUIT	VOLTS	AMPS	TYPE	TYP LOAD	DESCRIPTION
1	208V	30 A	EMERGENCY	50%	LAN UPS
2	120V	20 A	EMERGENCY	50%	NURSE CALL CIRCUIT
3	120V	20 A	EMERGENCY	50%	PUBLIC ADDRESS
4	120V	20 A	EMERGENCY	50%	TELEVISION TERMINATIONS
5	120V	20 A	EMERGENCY	<25%	TELEPHONE TERMINATIONS
6	120V	20 A	EMERGENCY	50%	RACK #1 – EQUIP
7	208V	30 A	EMERGENCY	50%	RACK #2 – BIOMED RACK
8	208V	30 A	EMERGENCY	50%	RACK #3 – LAN CORE SWITCH
9	120V	20 A	ROUTINE	<25%	CONVENIENCE OUTLETS (6 MINIMUM)



A COMM. ELEVATION 'A'



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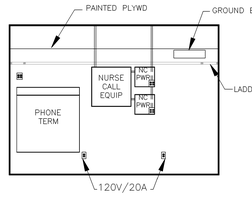

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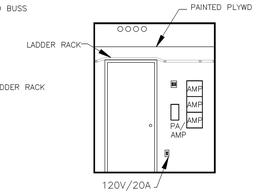


D COMM. ELEVATION 'D'

LEGEND:

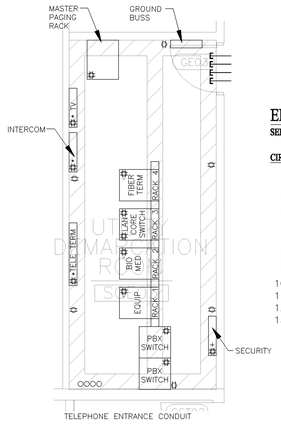
ALL POWER TO BE CONNECTED TO EMERGENCY GENERATOR (EXCEPT WHERE NOTED)

- ○ = 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
- E = 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 3/4" FIRE RETARDING PLYWOOD FROM FLOOR TO 96" ON ALL WALLS. PLYWOOD SHALL BE INSTALLED USING FLAT-HEAD SCREWS THEREBY PROVIDING A SMOOTH, UNOBSTRUCTED MOUNTING SURFACE. PAINT WITH TWO COATS FIRE RETARDING PAINT – COORDINATE COLOR WITH ARCHITECT AND OWNER (BY GC)
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 90% 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.

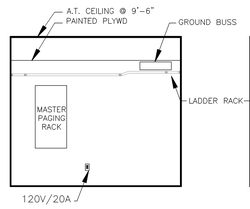
1 TEL/DATA - SGT01 COMMUNICATION EQUIPMENT ROOM



ELECTRICAL DESIGN BASIS

SEE ELECTRICAL ENGINEER DRAWINGS FOR FINAL DESIGN

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



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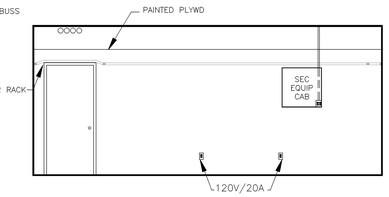

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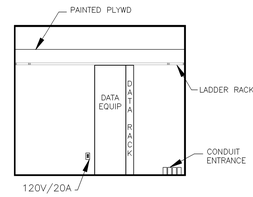
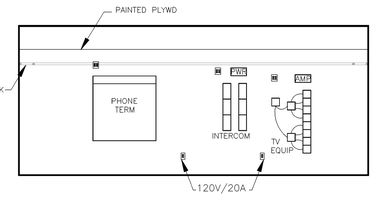
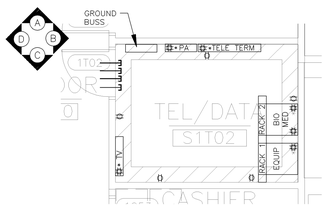


C COMM. ELEVATION 'C'



D COMM. ELEVATION 'D'

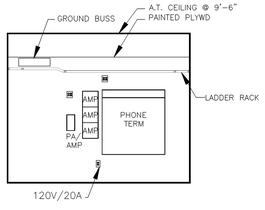
2 UTILITY DEMARCATION ROOM - SGE03 COMMUNICATION EQUIPMENT ROOM



ELECTRICAL DESIGN BASIS

SEE ELECTRICAL ENGINEER DRAWINGS FOR FINAL DESIGN

CIRCUIT	VOLTS	AMPS	TYPE	TYP LOAD	DESCRIPTION
1	208V	30 A	EMERGENCY	50%	LAN UPS
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	120V	20 A	EMERGENCY	50%	RACK #1 – EQUIP
6	208V	30 A	EMERGENCY	50%	RACK #2 – BIOMED RACK
7	120V	20 A	ROUTINE	<25%	CONVENIENCE OUTLETS (6 MINIMUM)



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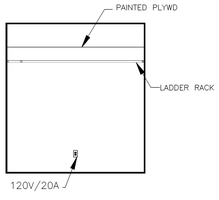

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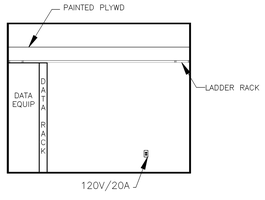
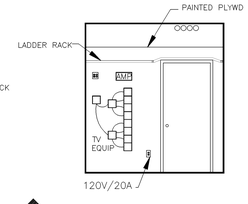
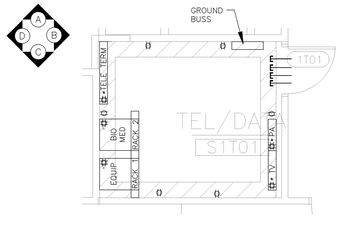


C COMM. ELEVATION 'C'



D COMM. ELEVATION 'D'

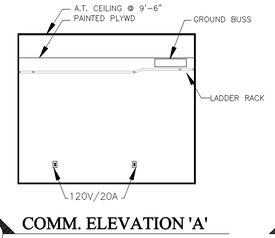
3 TEL/DATA - S1T02 COMMUNICATION EQUIPMENT ROOM



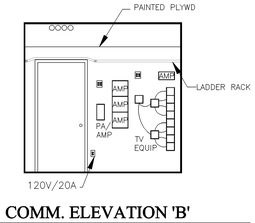
ELECTRICAL DESIGN BASIS

SEE ELECTRICAL ENGINEER DRAWINGS FOR FINAL DESIGN

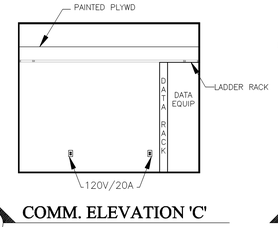
CIRCUIT	VOLTS	AMPS	TYPE	TYP LOAD	DESCRIPTION
1	208V	30 A	EMERGENCY	50%	LAN UPS
2	120V	20 A	EMERGENCY	50%	PUBLIC ADDRESS
3	120V	20 A	EMERGENCY	50%	TELEVISION TERMINATIONS
4	120V	20 A	EMERGENCY	<25%	TELEPHONE TERMINATIONS
5	120V	20 A	EMERGENCY	50%	RACK #1 – EQUIP
6	208V	30 A	EMERGENCY	50%	RACK #2 – BIOMED RACK
7	120V	20 A	ROUTINE	<25%	CONVENIENCE OUTLETS (6 MINIMUM)



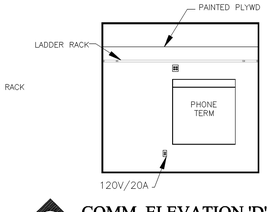
A COMM. ELEVATION 'A'



B COMM. ELEVATION 'B'



C COMM. ELEVATION 'C'



D COMM. ELEVATION 'D'

4 TEL/DATA - S1T01 COMMUNICATION EQUIPMENT ROOM

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