



WIRING MAURY HIGH SCHOOL

By: Tyler



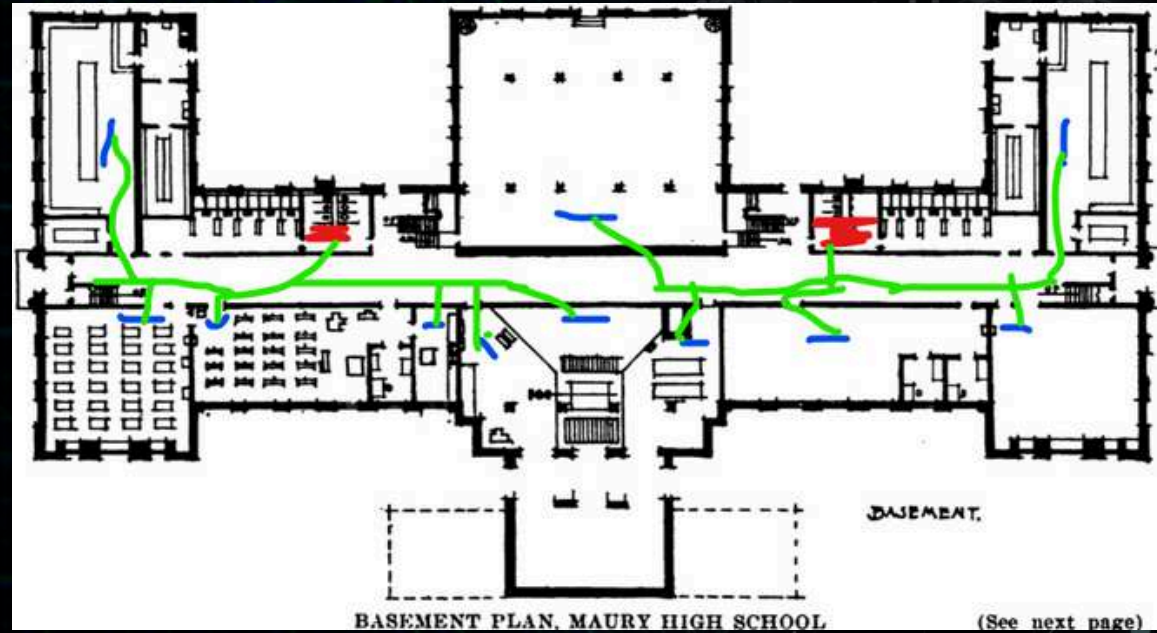


FLOOR PLANS

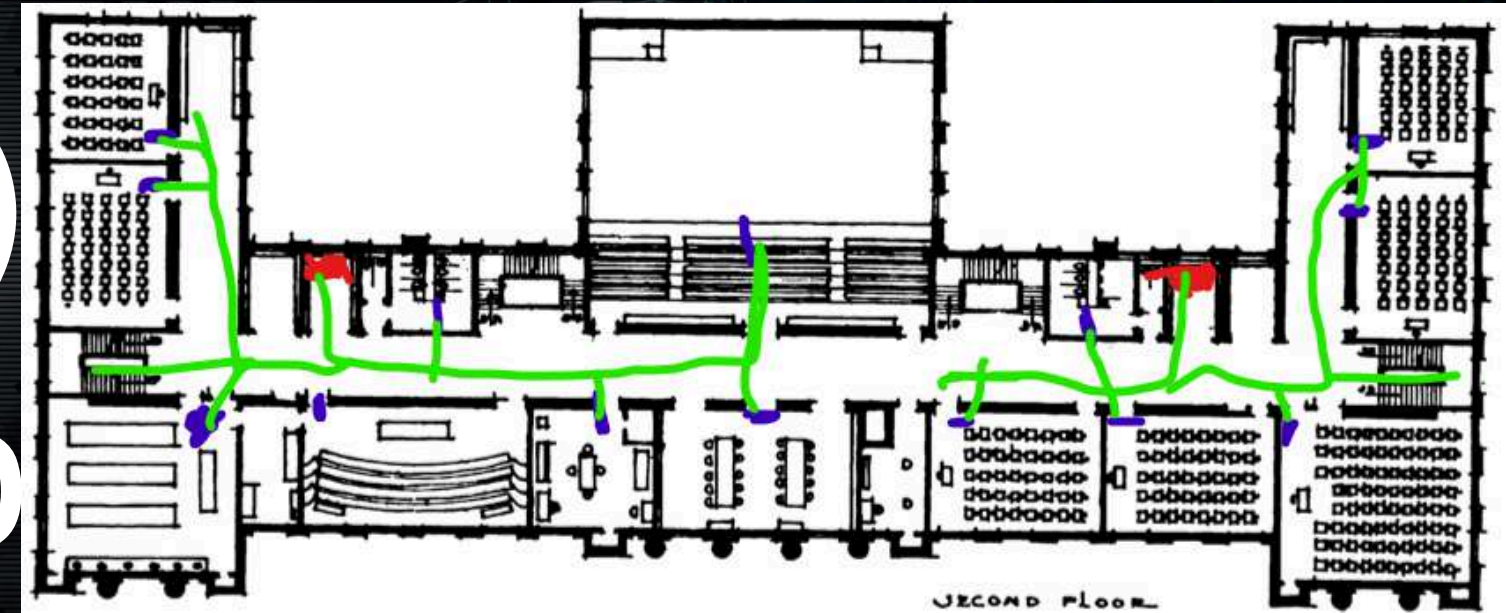
CABLE RUN ESTIMATES:

- CLASSROOMS/OFFICES: EACH CLASSROOM/OFFICE IS EXPECTED TO HAVE ABOUT 4 RJ45 OUTLETS FOR ETHERNET CONNECTIVITY.
- EQUIPMENT ROOM: THIS WILL HAVE PATCH PANELS TO CONNECT ALL THE CLASSROOMS AND OFFICES.
- TELECOMM CLOSETS: THESE WILL HOUSE NETWORKING EQUIPMENT LIKE SWITCHES, ROUTERS, AND PATCH PANELS FOR ROUTING NETWORK TRAFFIC TO CLASSROOMS/OFFICES.

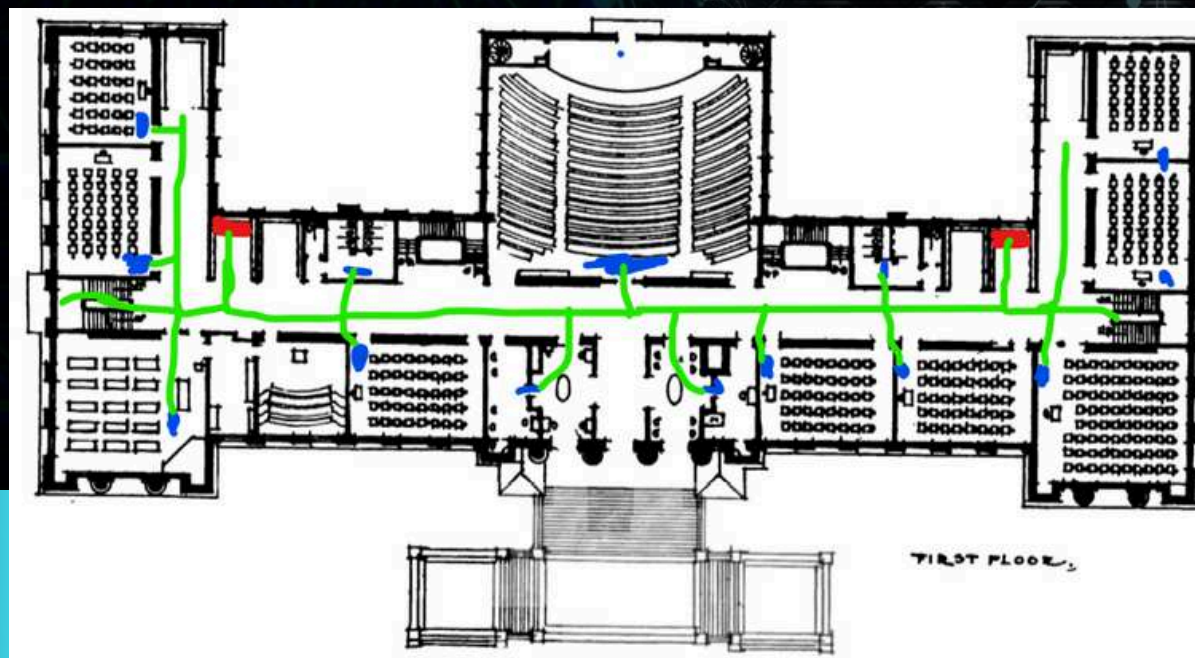
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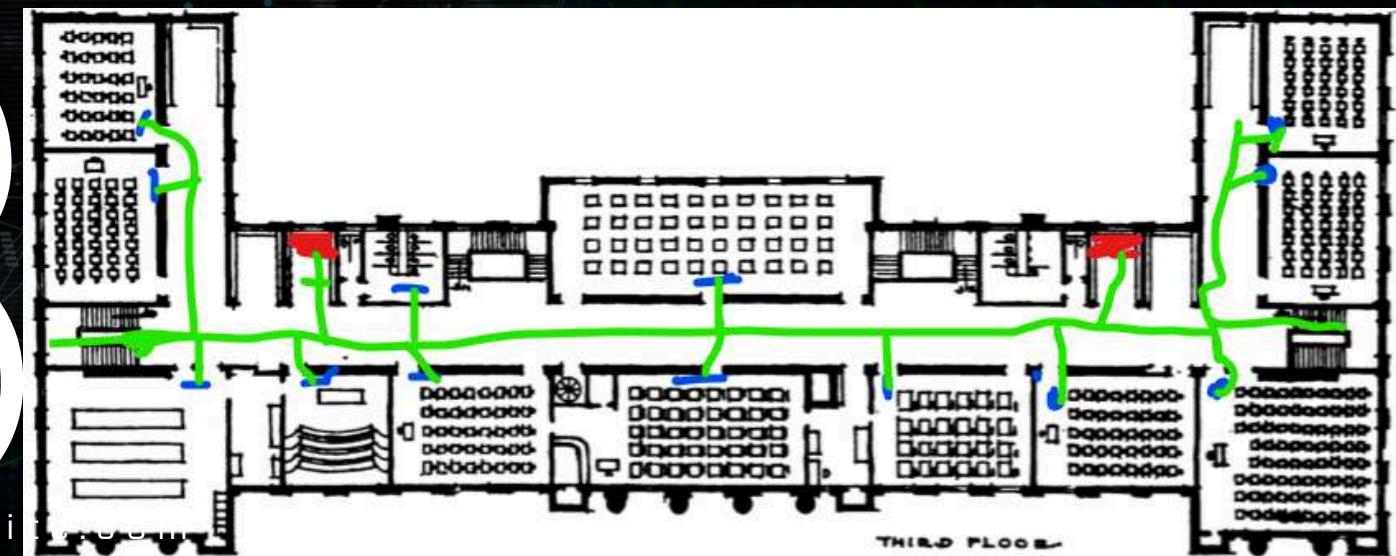
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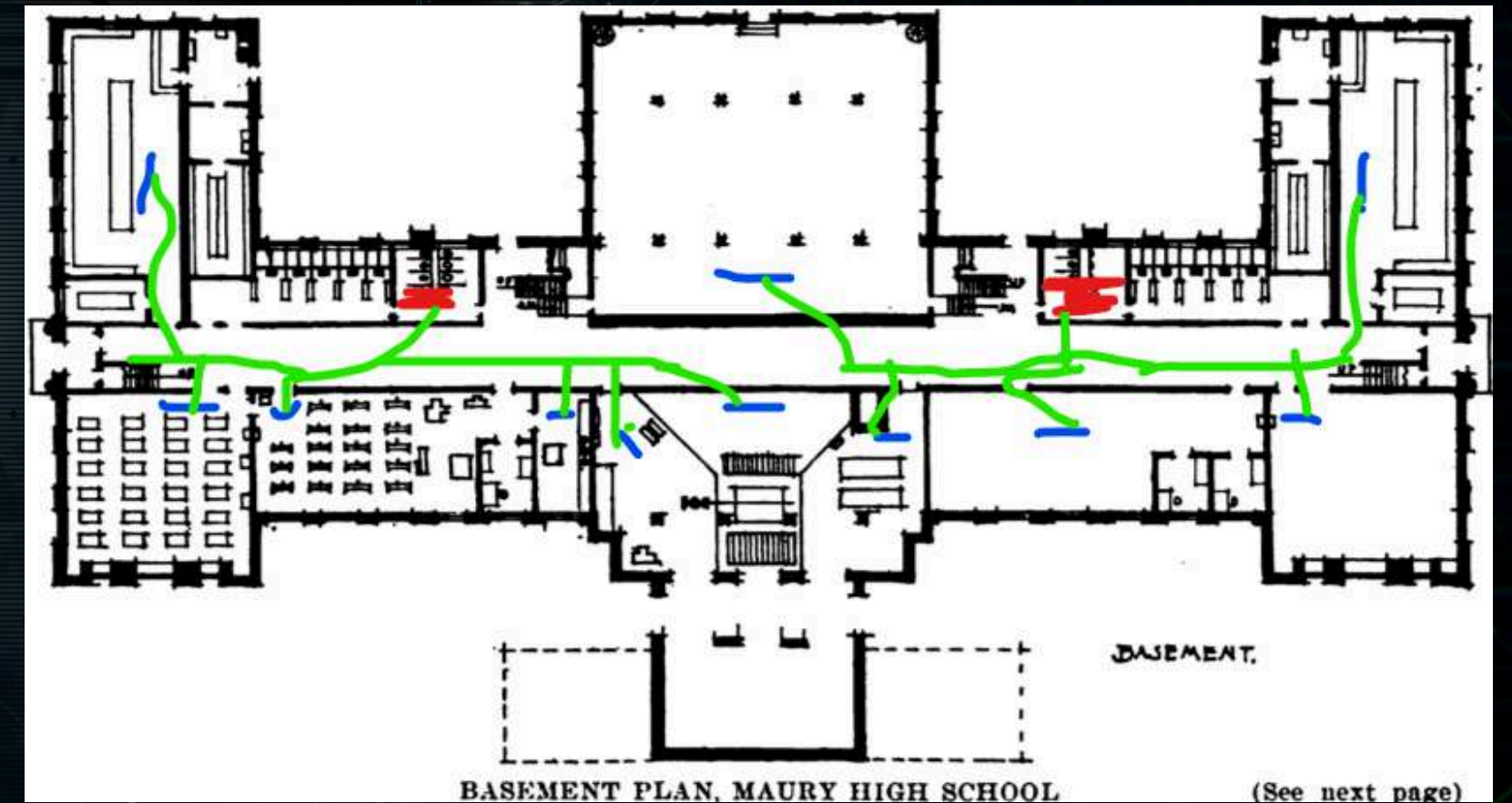
BASEMENT FLOOR

1. ITEMS ON THE FLOOR

Red: patch panel and computer closet

Green: Cat6 wires
Goes into stair representing it moving floors

Blue; RJ45 outlets and wall plates





1ST FLOOR

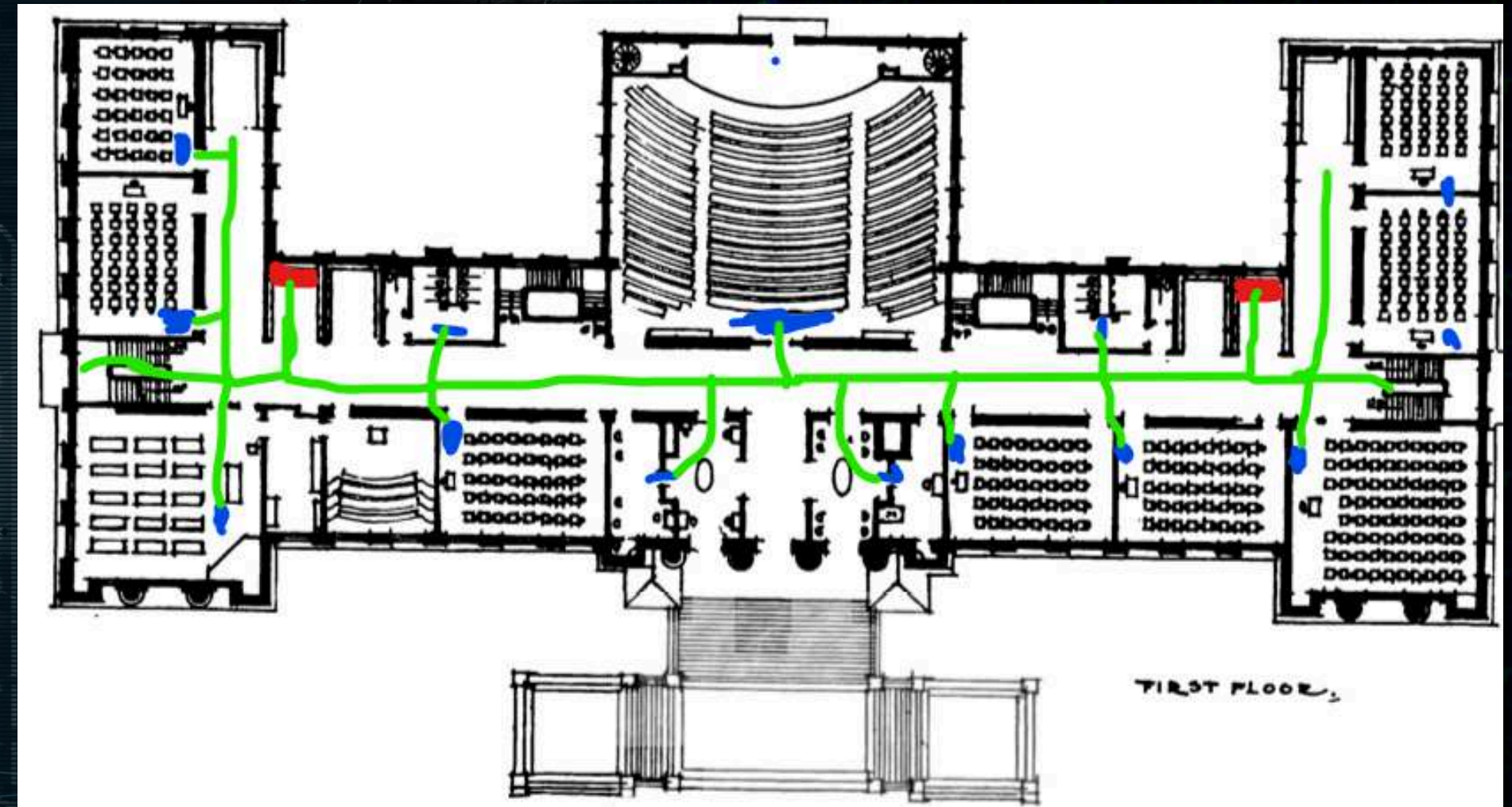
1. ITEMS ON THE FLOOR

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2ND FLOOR

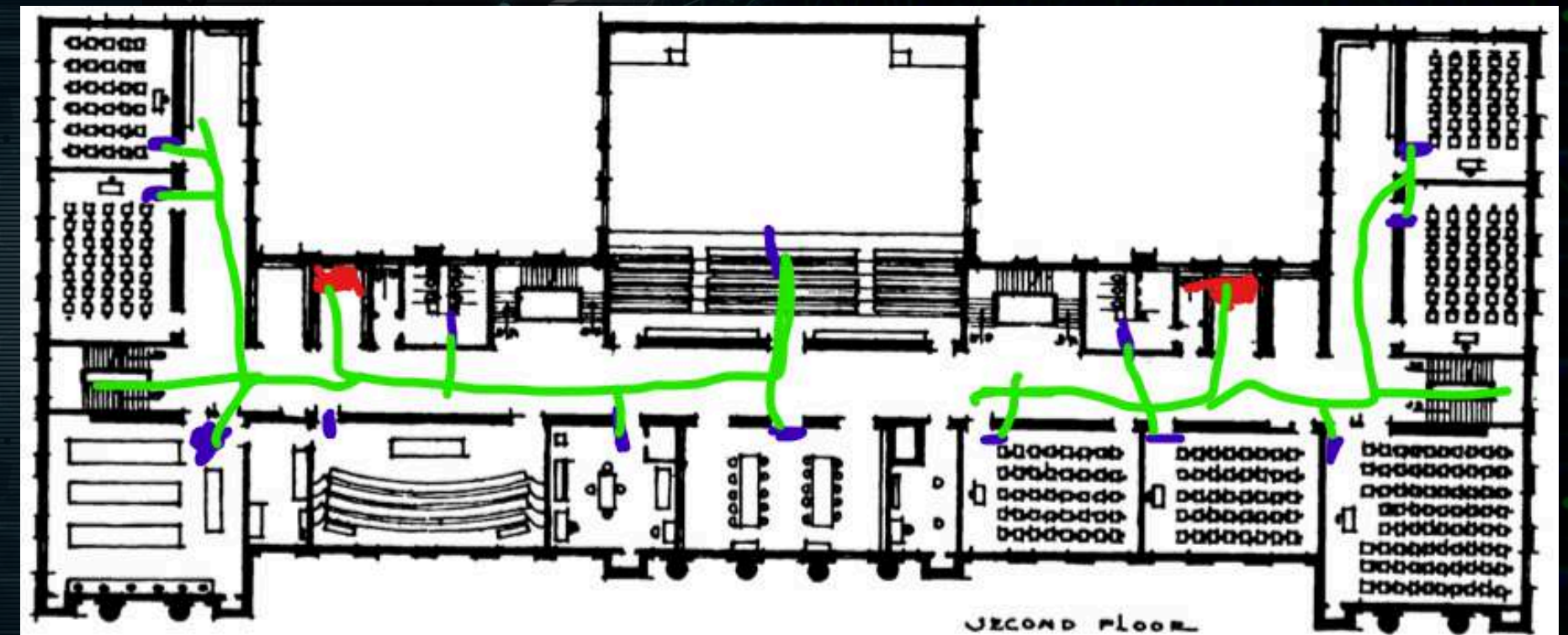
1. ITEMS ON THE FLOOR

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Blue; RJ45 outlets and wall plates





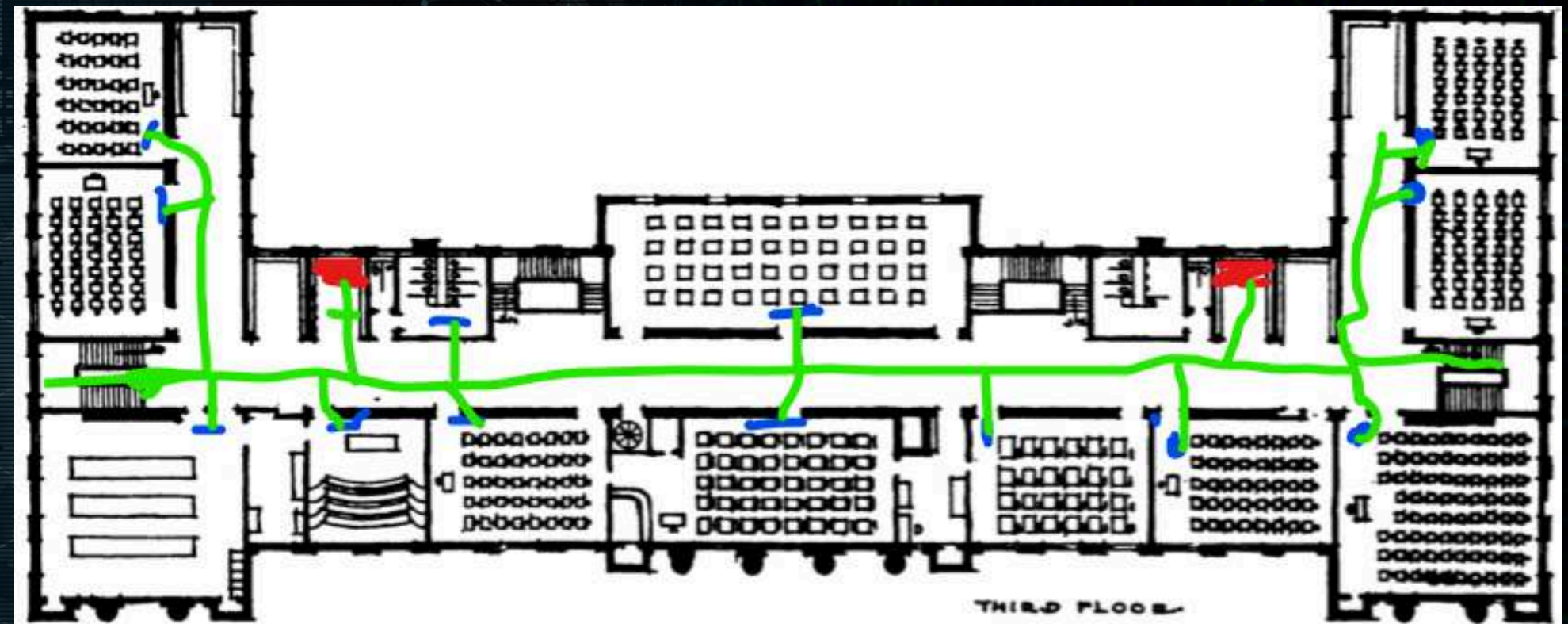
3RD FLOOR

1. ITEMS ON THE FLOOR

Red: patch panel and computer closet

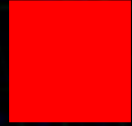
Green: Cat6 wires
Goes into stair representing it moving floors

Blue; RJ45 outlets and wall plates



WIRING PLAN AND BUDGET

Item	Quantity	Unit Price	Total Cost	Source
CAT 6 Ethernet Cable	660 meters	\$0.10/m	\$66.00	CableWholesale
RJ45 Outlets	80 (20 rooms × 4)	\$2.50	\$200.00	Home Depot
Wall Plates	80 (1 per outlet)	\$1.50	\$120.00	Home Depot
Patch Panels (24-port)	2	\$25.00	\$50.00	CableWholesale
			\$436.00	



ETHERNET NETWORK EQUIPMENT BUDGET

Item	Quantity	Unit Price	Total Cost	Source
24-Port Managed Switches	4	\$100.00	\$400.00	Amazon
CAT 6 Patch Cables (3 ft)	16	\$1.50	\$24.00	CableWholesale



NETWORK SECURITY BUDGET

Item	Quantity	Unit Price	Total Cost	Source
Firewall (Cisco ASA 5506-X or FortiGate 60F)	1	~\$400.00	\$400.00	Amazon
			\$424.00	





OVERALL BUDGET

Category	Total Cost
Wiring	\$436.00
Network Equipment	\$424.00
Network Security	\$400.00
	\$1,260.00

