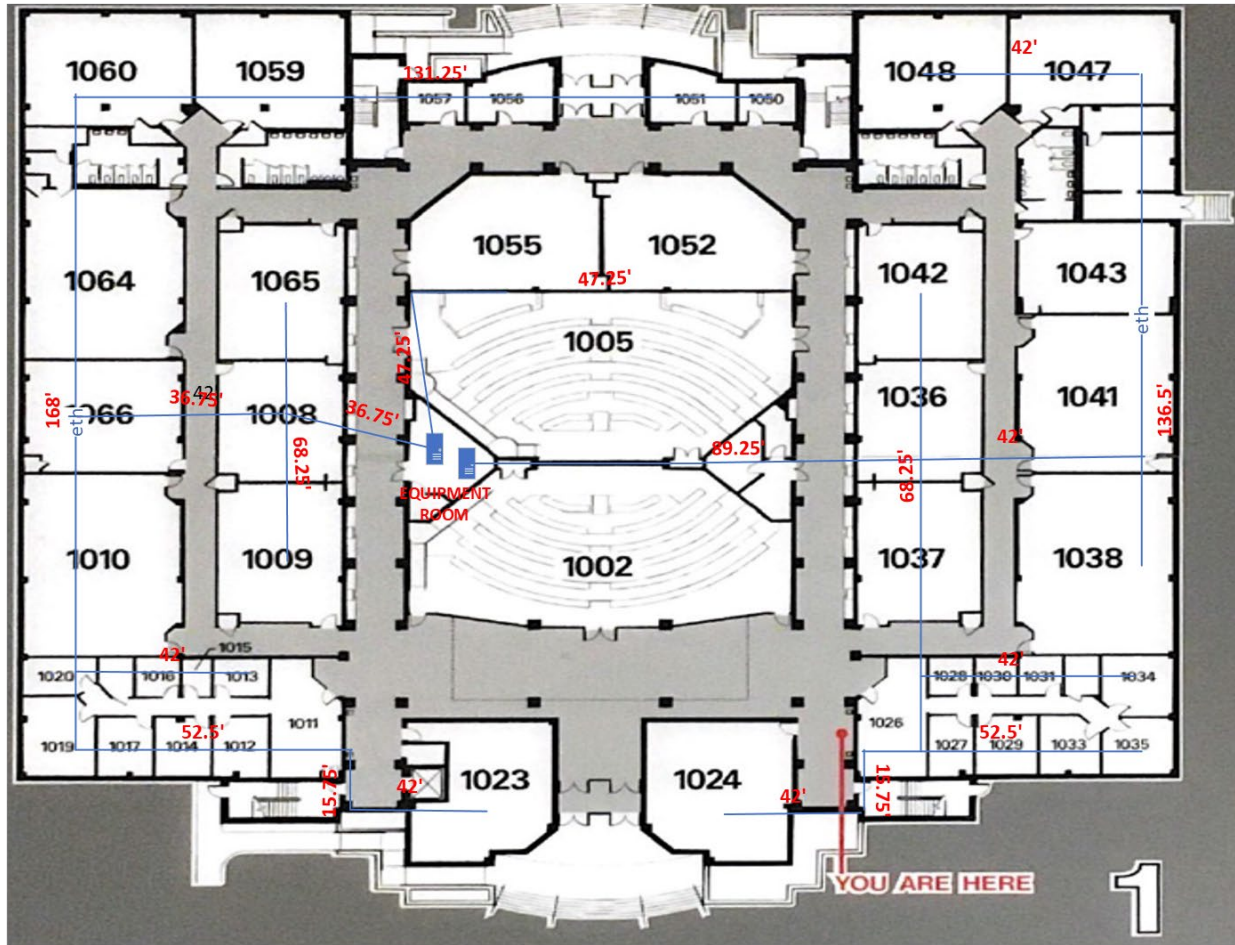




Longest Cable Run: 293.75FT

Shortest Cable Run: 36.75FT

Average: 162.25FT

AVG x (46 Rooms x 2 Cables per Room) = 15,203FT



LEFT SECTION

Longest Cable Run: 166.5FT

Shortest Cable Run: 10FT

Average: 88.25FT

$$\text{AVG} \times (57 \text{ Rooms} \times 2 \text{ Cables per Room}) = 10,060.5\text{FT}$$

MIDDLE SECTION

Longest Cable Run: 169FT

Shortest Cable Run: 9.5FT

Average: 89FT

$$\text{AVG} \times (38 \text{ Rooms} \times 2 \text{ Cables per Room}) = 6,764\text{FT}$$

RIGHT SECTION

Longest Cable Run: 168.5FT

Shortest Cable Run: 10FT

Average: 89.25FT

$$\text{AVG} \times (57 \text{ Rooms} \times 2 \text{ Cables per Room}) = 10,174.5\text{FT}$$

Project Prices

CORE:

2x	SC9405 Chassis	\$589 EA	\$1,178
2x	SC9400-48S-E 48-Port Switch	\$5,299 EA	\$10,598
2x	SC94-EM-A Supervisor Module	\$889 EA	\$1,778
2x	SC9400-8C-E 8-Port Line Card	\$7,959 EA	\$15,918
4x	CS-CS 100G QSFP	\$99 EA	\$396
10x	48-Port Patch Panel	\$83 EA	\$830

EDGE SWITCH (OPTION 1) – 40G CONNECTION TO CORE SWITCHES

8x	S5860-48SC 48-Port L3 Switch	\$3,999 EA	\$31,992
16x	CS-ES 40G QSFP	\$39 EA	\$624

EDGE SWITCH (OPTION 2) – 10G CONNECTION TO CORE SWITCHES

8X	S3410-48TS-P 48-PORT L2+ SWITCH	\$1,379 EA	\$11,032
16x	CS-ES 10G SFP+	\$20 EA	\$320

CABLING (42,202FT CAT6 NEEDED)

43x	CAT6 Plenum 1000FT 23AWG 550MHz	\$110 EA	\$4,730
2x	100PK 2-Port CAT6 wall plate	\$511 EA	\$1,022
8x	100PK CAT6 RJ45 Connector	\$14 EA	\$112
2x	49FT 40/100G Fiber Cable	\$149 EA	\$298

CABLING (OPTION 1 SPECIFIC)

16x	200FT 40/100G Fiber Cable	\$393 EA	\$6,288
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CABLING (OPTION 2 SPECIFIC)

16X	200ft 40/100G Fiber Cable	\$66 EA	\$1,056
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TOTAL FOR OPTION 1	\$75,764
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TOTAL FOR OPTION 2	\$49,268
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Switches: <https://www.fs.com/products/115386.html>

Wall Plate: <https://www.newegg.com/p/1GY-00V5-000B5?Item=9SIAM7HENF7520>

CAT6: <https://www.newegg.com/monk-cables-1000-ft-network-ethernet-cables-blue/p/1YU-02A6-00024>

CAT6 Connectors: <https://www.newegg.com/p/2A6-00GY-00018>

Fiber Cable Option 1:
<https://www.fs.com/products/84152.html?attribute=6133&id=109286>

Fiber Cable Option 2:
<https://www.fs.com/products/40254.html?attribute=805&id=1790126>

Patch Panel: <https://www.fs.com/products/167463.html>