



**Cypress EnviroSystems Wireless Site Survey Submittal**  
**Wireless Pneumatic Thermostat System**  
**Library of Congress**  
**Madison Building**

Project #PC-000051

Originally Submitted to Albireo on July 2, 2020

Revised and Resubmitted to Albireo on July 29, 2020

Site Survey Completed June 23-26, 2020 by David Roberts and Joe Tallant

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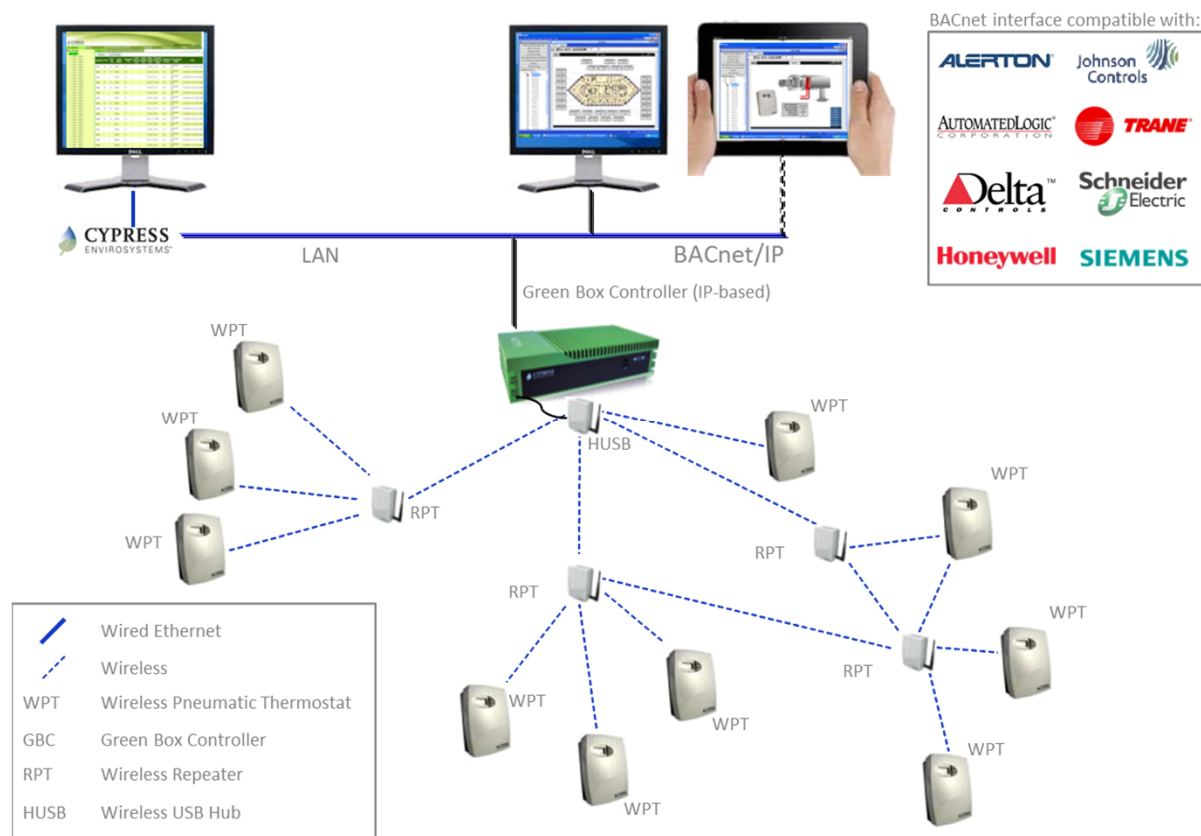
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## Description of Wireless Site Survey and Results

- During the week of June 23-26, 2020, Joe Tallant and David Roberts of Cypress Envirosystems conducted a wireless site survey of the Library of Congress's Madison Building utilizing the 2.4 GHz Wireless USB technology.
- A survey tool kit was used to determine actual radio strengths throughout the building to ensure that all devices will have robust wireless coverage when installed.
  - The tool kit consists of two radio devices—a receiver and transceiver. The receiver displays the radio strength on a scale of 1-5 with 3 and above being considered a strong radio signal.
  - The survey started at the locations of the Green Box and wireless repeaters were designated in locations where the survey kit still displayed a 4 before dropping to a 3 so that almost all connections between repeaters is a 4 or better. Since 3 is considered strong, this repeater placement is conservative and will ensure a very strong signal.
  - This process was repeated from each designated location until wireless coverage for all thermostats was confirmed. Signals from the repeaters to the thermostats were accepted at 3 and above.
  - 15 Green Box locations and 133 repeater locations were identified and documented on floor plans for the Madison Building (pages 7-43 of this report)
- Thermostat locations: Identifying the thermostats to be retrofitted, the counts and locations was not in scope for Cypress Envirosystems. This wireless survey was based on locations for thermostats identified on drawings that were created by a testing and air balancing (TAB) contractor.
  - The new Wireless Pneumatic Thermostats will replace the legacy thermostats identified by the TAB contractor and will be installed in the same locations. (relocating thermostats is not in scope and this wireless survey report relies on the accuracy of the drawings provided to Cypress)
  - Thermostat locations are shown on the drawings with a symbol consisting of a circle with a T inside.
  - Cypress Envirosystems measured the wireless strength to these thermostat locations.
- Once the system is installed and commissioned, the Cypress system will generate a commissioning report that will show actual wireless strength and reliability of every node in the network. Cypress will provide these reports during commissioning to provide confidence that the system is communicating reliably before system handoff.

# Illustration of Cypress Wireless Network



## Cypress Wireless Network

- All devices on one wireless network will report to a specific Green Box Controller
- In large buildings, multiple Green Boxes are needed. Each Green Box will have a dedicated wireless network ID so the devices on that network all work together.
- The wireless is a self-healing hybrid mesh that will utilize the best path home when redundancy is available. (The thermostats do not act as repeaters.)
- **Green Box Controller**
  - Requires 110V power (provision of power is not in scope for Cypress)
  - Requires LAN connection and IP address (provision of network connection is not in scope for Cypress EnviroSystems)
  - Can be integrated via BACnet/IP (Integration is not in scope for Cypress EnviroSystems)
- **Wireless repeaters**
  - Require 24VAC (provision of power is not in scope for Cypress)
- **Wireless Pneumatic Thermostats**
  - No power, utilize Lithium 123A batteries (provided by Cypress)
- The Green Box has a Commissioning Tool, which will provide a complete report of all nodes in the network showing actual strength and reliability of communications

# Equipment Counts and Locations



Description	Count	Notes
Wireless Pneumatic Thermostats	1,467	Locations provided in TAB report. Thermostat locations with RH sensors (100 units) must provided to Cypress Envirosystems before installation.
Green Box Controllers and hubs	15	Locations noted in this section of report
Wireless Repeaters	133	Locations noted in this section of report

# Understanding Symbols and Notations Used in this Report



- Thermostat locations are designated by circles with the letter T inside. These locations and counts were provided to Cypress EnviroSystems. This report and the success of the project depends on the accuracy of the thermostat locations that were noted on the drawings provided.



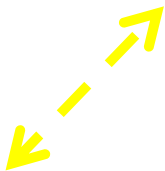
- Green Box Controllers (GBC) are represented by a green rectangle. The GBCs are located inside of secure utility closets where 110V power and a network connection to the building automation system can be provided. (Note, the GBC numbers used in this report are for reference only. During deployment, different network IDs will be assigned.)



- Wireless repeaters (RPT) are represented by blue triangles. The RPTs are generally mounted above drop ceilings to be out of view. Each location noted with a blue triangle requires 24VAC. (Note, the RPT numbers used in this report are for reference only. During deployment, different RPT IDs will be assigned.)



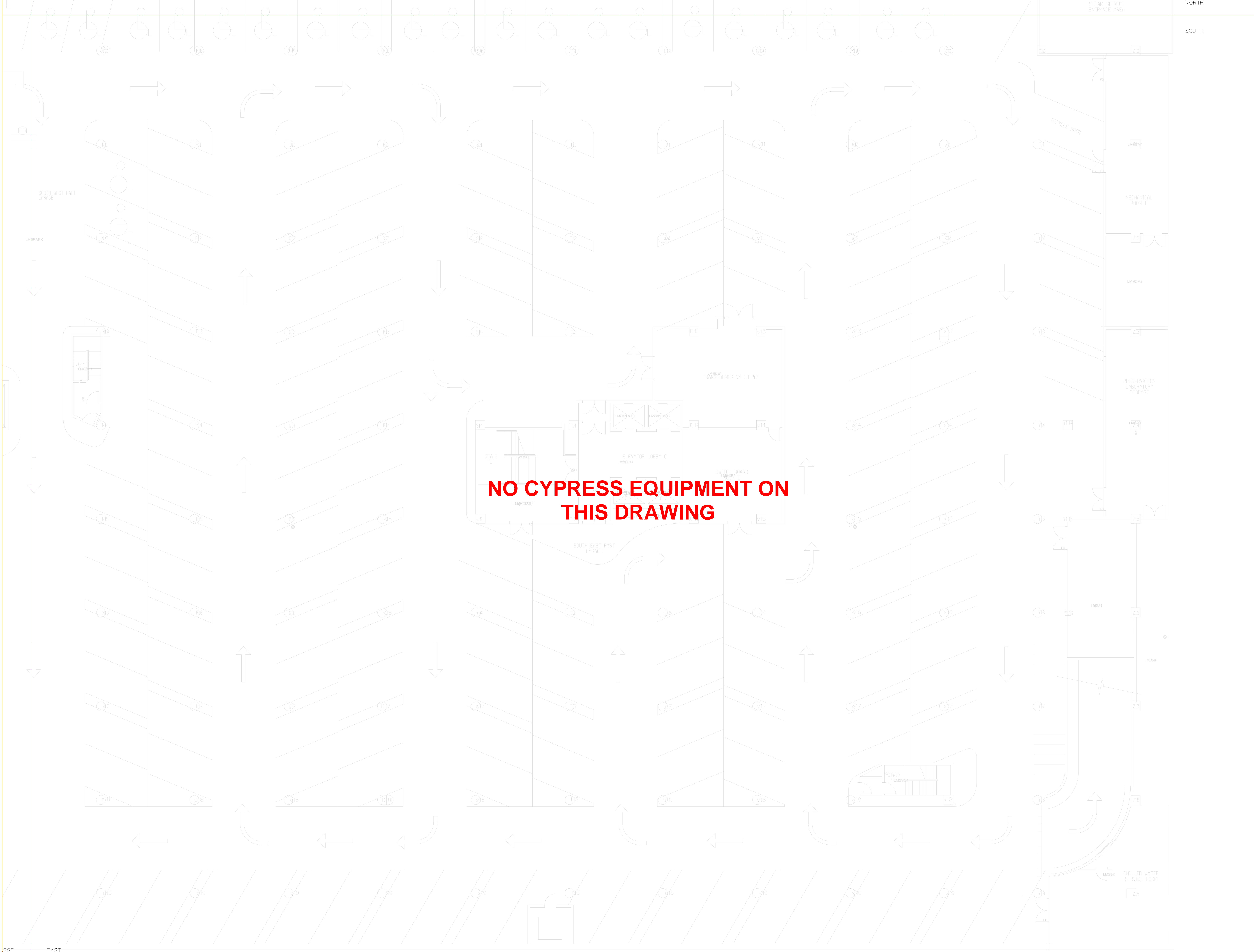
- The primary wireless path from the GBC to each repeater is noted with a dashed green line. The two devices connected by the green line are noted so the path can be easily traced from the Green Box to the most distant device. Several redundant paths will exist, but these secondary paths are not noted in this report. The system will automatically identify the strongest and most reliable connection. Any thermostats near the pathway of these green lines will communicate with one of the two devices noted.



- The minimum wireless coverage from GBCs and RPTs is shown with a dashed yellow line to demonstrate that each thermostat will be covered by this network. When two devices' wireless coverage overlap, the yellow lines will stop at the mid-point between the two devices and not show the maximum extent of coverage. Also, the yellow line represents a radius of radio coverage in that direction, so it is implied that thermostats in nearby areas not explicitly covered by the yellow line, but within the same radius, have adequate wireless coverage.



- Each GBC will constitute a specific wireless network and that network will be associated with a single IP address. All devices in one wireless network can only communicate with its assigned GBC. When integrated with a third-party building automation system, these wireless networks will be transparent to the user. However, it is important that installers know which GBC each device will communicate to. This information will also be important for troubleshooting in the future. The red dashed outline and notation identify which GBC network the devices are assigned to.



JAMES MADISON BUILDING  
SUBBASEMENT FLOOR SOUTH EAST

ARCHITECT  
OF THE CAPITOL

REVISIONS	DATE
NO	DESCRIPTION

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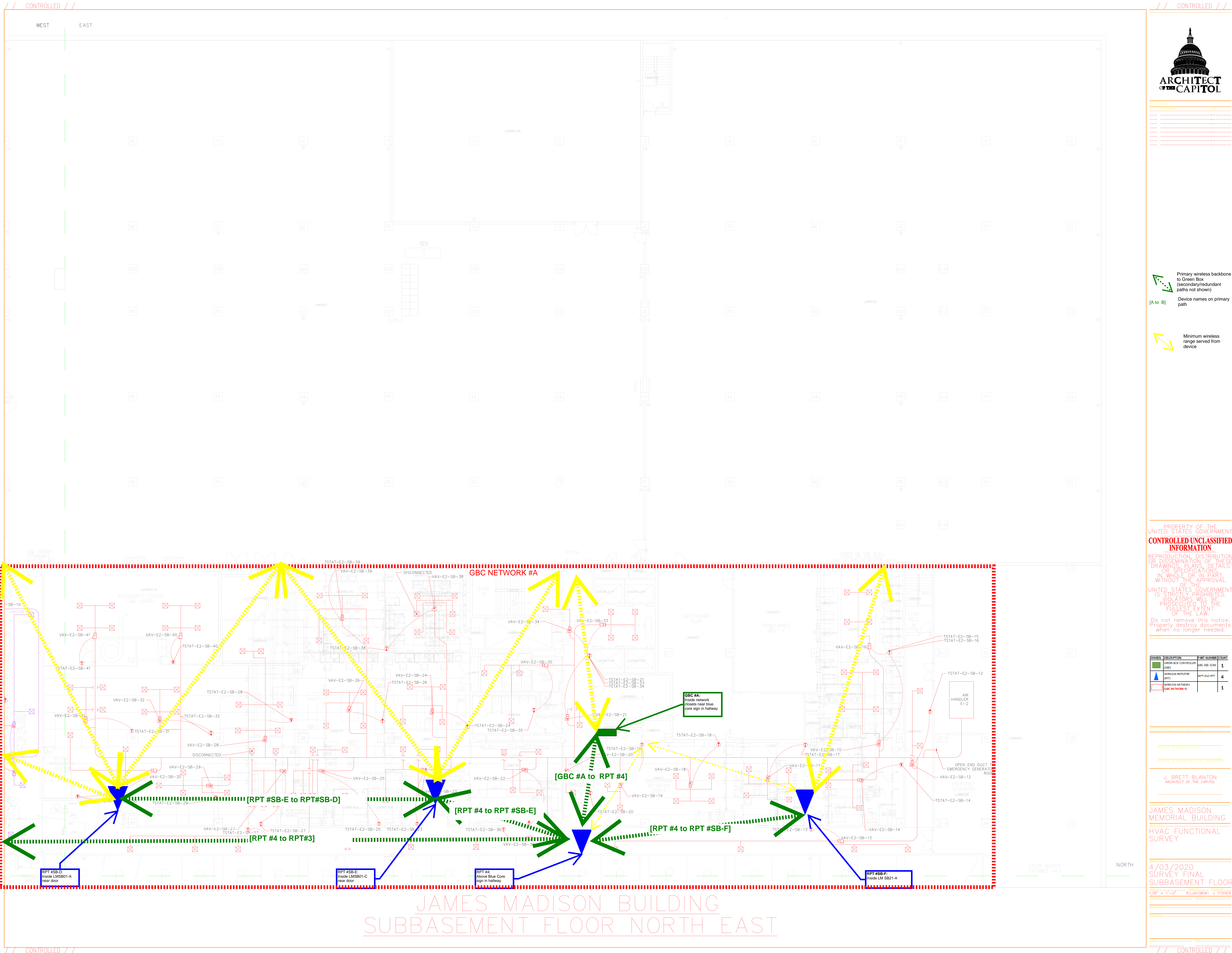
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DIRECTOR OF PLANNING & PROJECT MANAGEMENT

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ARCHITECT OF THE CAPITOL

PROJECT  
JAMES MADISON  
MEMORIAL BUILDING  
SUBSYSTEM  
HVAC FUNCTIONAL  
SURVEY

DATE  
4/03/2020  
SURVEY FINAL  
SUBBASEMENT FLOOR  
SCALE  
1/8" = 1'-0" R. LUKOWSKI - J. FISHER  
DRAWN BY  
CHECKED BY  
DATE





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JUL 2002 NAME

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MEMORIAL BUILDING

PROJECT TYPE

HVAC FUNCTIONAL  
SURVEY

4/03/2020 SURVEY FINAL SUBBASEMENT FLOOR	
DATE 1/8" = 1'-0"	DRAWN BY R. UKOWSKI
DES. NO. 440-747-30	CHECKED BY J. FISHER
440-747-30	
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440-747-30	



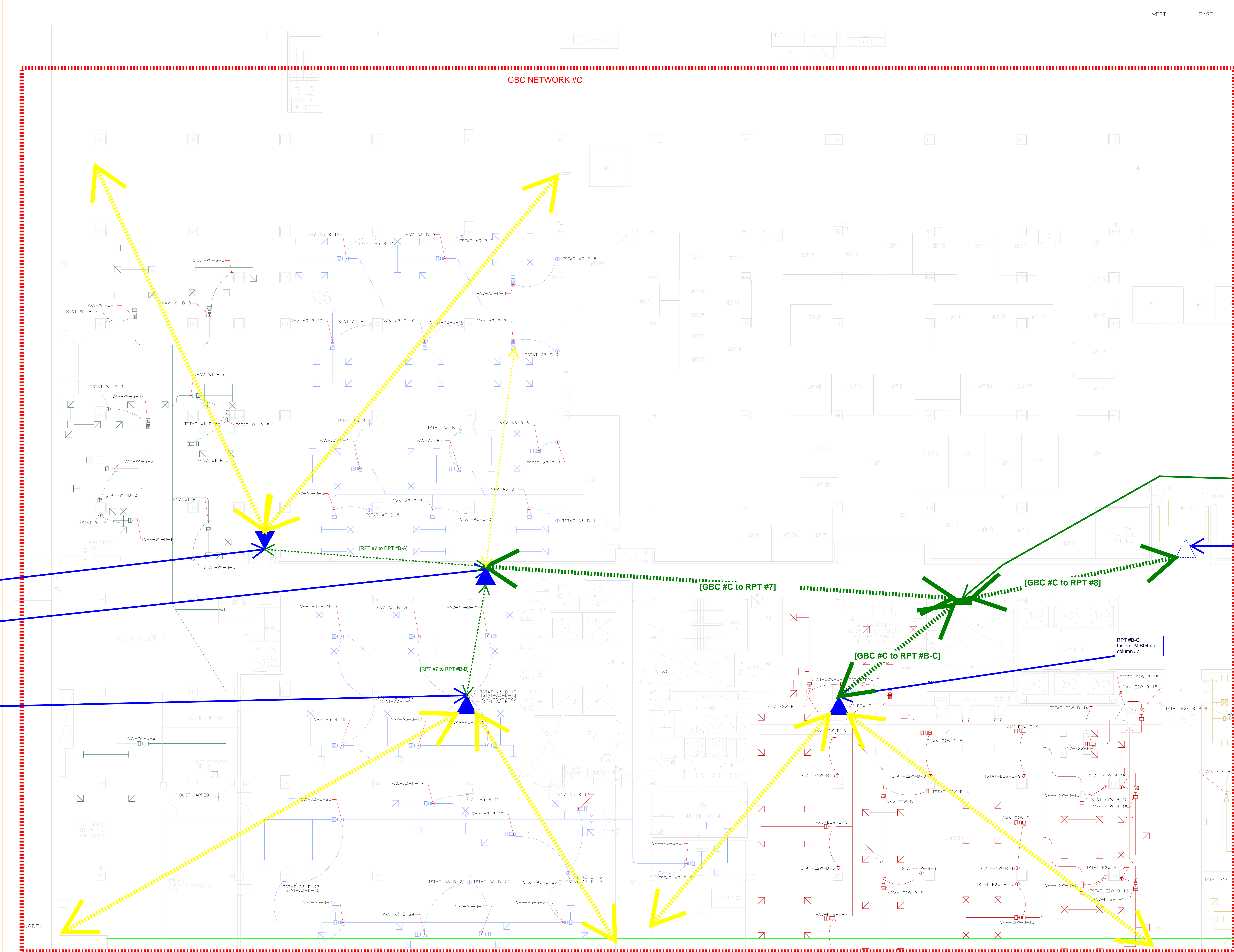


REVISIONS	NO.	DESCRIPTION	DATE

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

[A to B] Device names on primary path

Minimum wireless range served from device



RPT #B-A:  
Inside LM B06 near door

RPT #7:  
In hallway 50 feet to the left of LM B05 above Madison sign

RPT #B-B:  
Inside LM B0 on column E7

GBC #C:  
Inside closet BE-1 left of LM B03

RPT #8:  
Shown and counted on North East drawing

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SYMBOL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	800-800-8000	1
	WIRELESS REPEATER (RPT)	800-800-8000	4
	WIRELESS NETWORK (GBC NETWORK #C)	800-800-8000	1

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HVAC FUNCTIONAL SURVEY

4/03/2020  
SURVEY FINAL  
BASEMENT FLOOR

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 Minimum wireless range served from device

RPT #B-F:  
On column E16

RPT #B-G:  
On column 114

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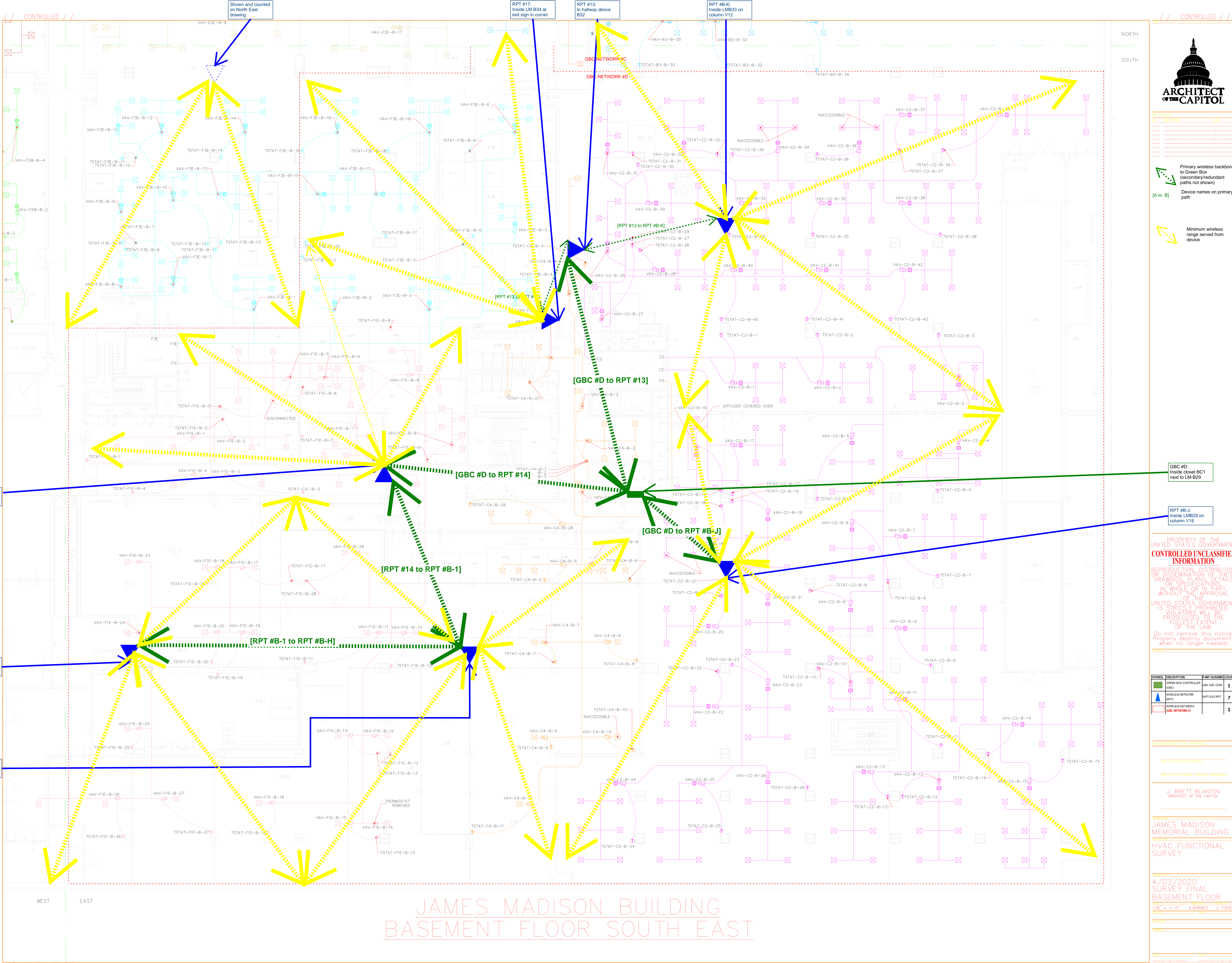
SYMBOL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC 820 COM	1
	WIRELESS REPEATER (RPT)	WPT 810 RPT	6
	WIRELESS NETWORK (GBC NETWORK #)		1

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SHEET \_\_\_\_\_ DATE \_\_\_\_\_



REVISIONS	NO.	DESCRIPTION	DATE

- Primary wireless backbone to Green Box (secondary/redundant paths not shown)
- Device names on primary path
- Minimum wireless range served from device

GBC #D:  
Inside closet BC1  
next to LM-B29

RPT #B-J:  
Inside LMB29 on  
column V16

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SYMBOL	DESCRIPTION	RPT NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC-RID-CDM	1
	WIRELESS REPEATER (RPT)	WPT-B13-RPT	7
	WIRELESS NETWORK (GBC NETWORK #)		1

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HVAC FUNCTIONAL  
SURVEY

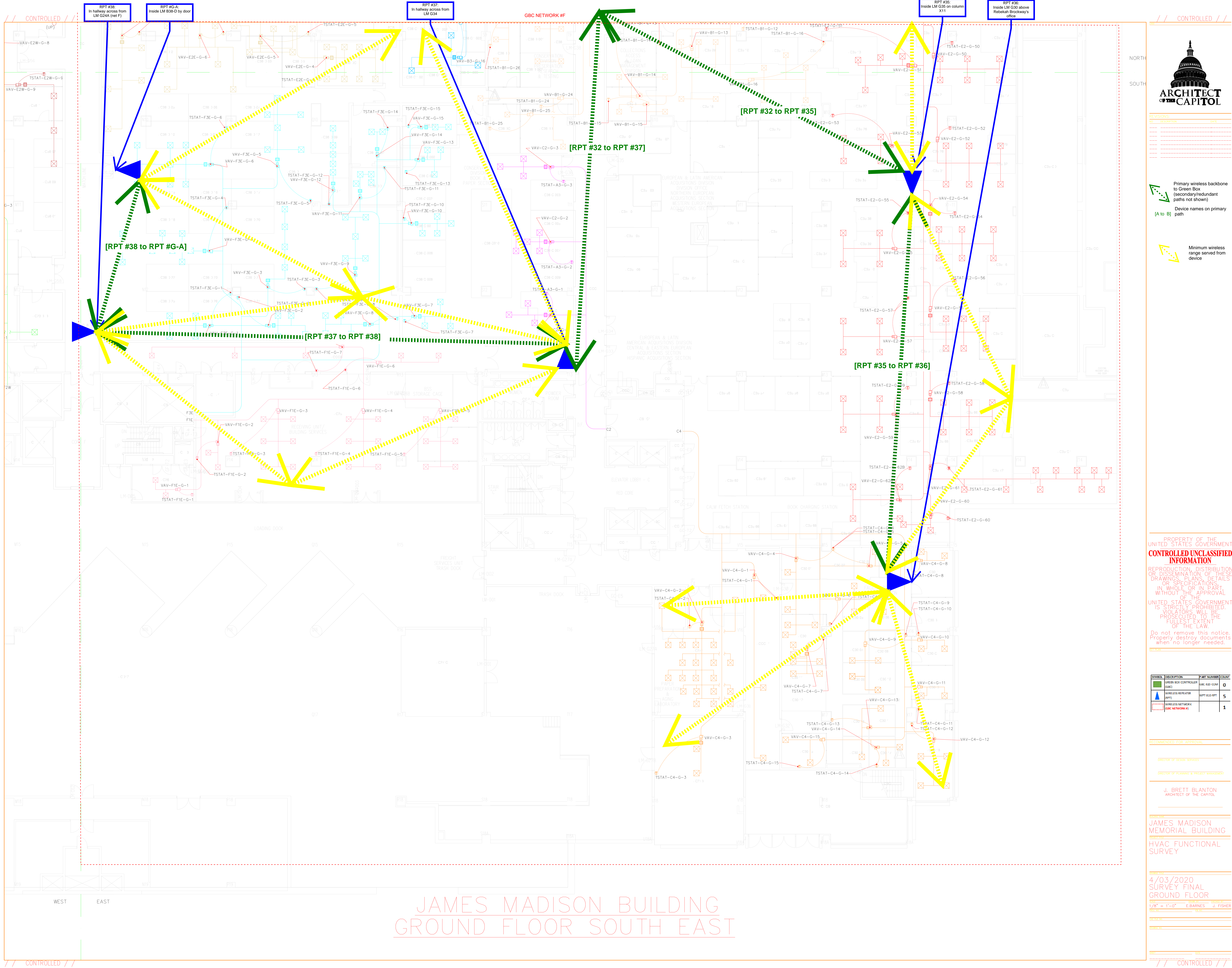
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BASEMENT FLOOR

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DATE OF SURVEY

DATE OF SURVEY

DATE OF SURVEY





[A to B] Device names on primary path

Minimum wireless range served from device

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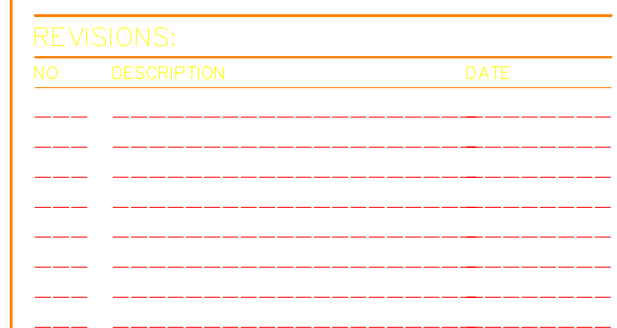
BUILDING NAME \_\_\_\_\_

# GAMES MADISON MEMORIAL BUILDING PROJECT FILE HVAC FUNCTIONAL SURVEY

4/03/2020  
SURVEY FINAL  
GROUND FLOOR

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CNS FILE NO. \_\_\_\_\_



[A to B] Device names on primary path

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03/03/2025

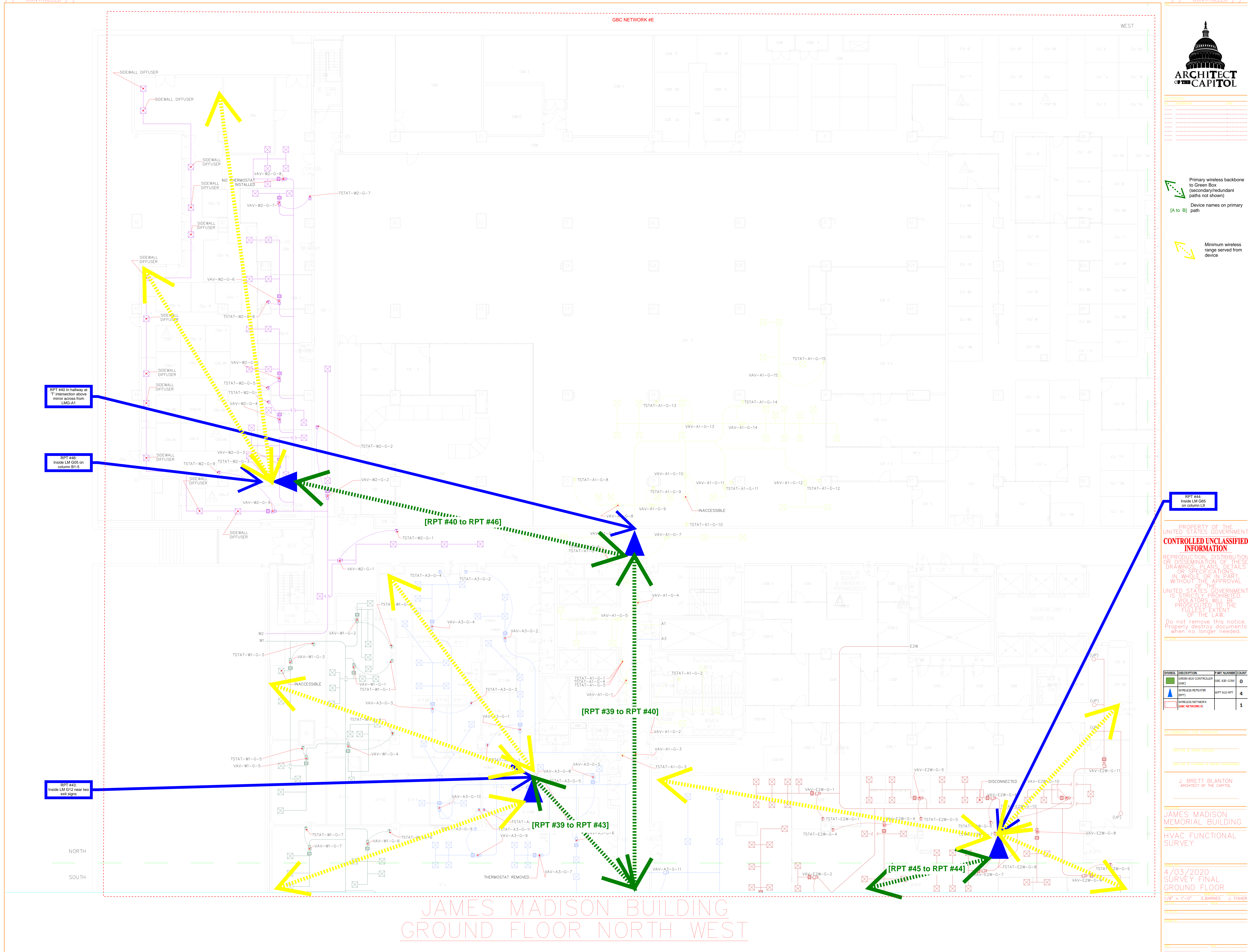
## HVAC FUNCTIONAL

SCALE	DRAWN BY	CHECKED BY
1/8" = 1'-0"	E. BARNES	J. FISHER
PROJECT NO.	FIRM NO.	

CND FILE NO.

01/10/92 80.

9811 047



[illegible]

Primary wireless backbone  
to Green Box  
(secondary/redundant  
paths not shown)




Device names on primary  
path

Minimum wireless range served from device

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SYMBOL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC 820 COM	1
	WIRELESS REPEATER (RPT)	WPT 810 RPT	4
	WIRELESS NETWORK (GBC NETWORK #)		1

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**BUILDING NAME**  
JAMES MADISON  
MEMORIAL BUILDING

4/03/2020  
SURVEY FINAL  
GROUND FLOOR

SCALE	DRAWN BY	CHECKED BY
1/8" = 1'-0"	E. BARNES	J. FISHER
PROJECT NO.	FIRM NO.	

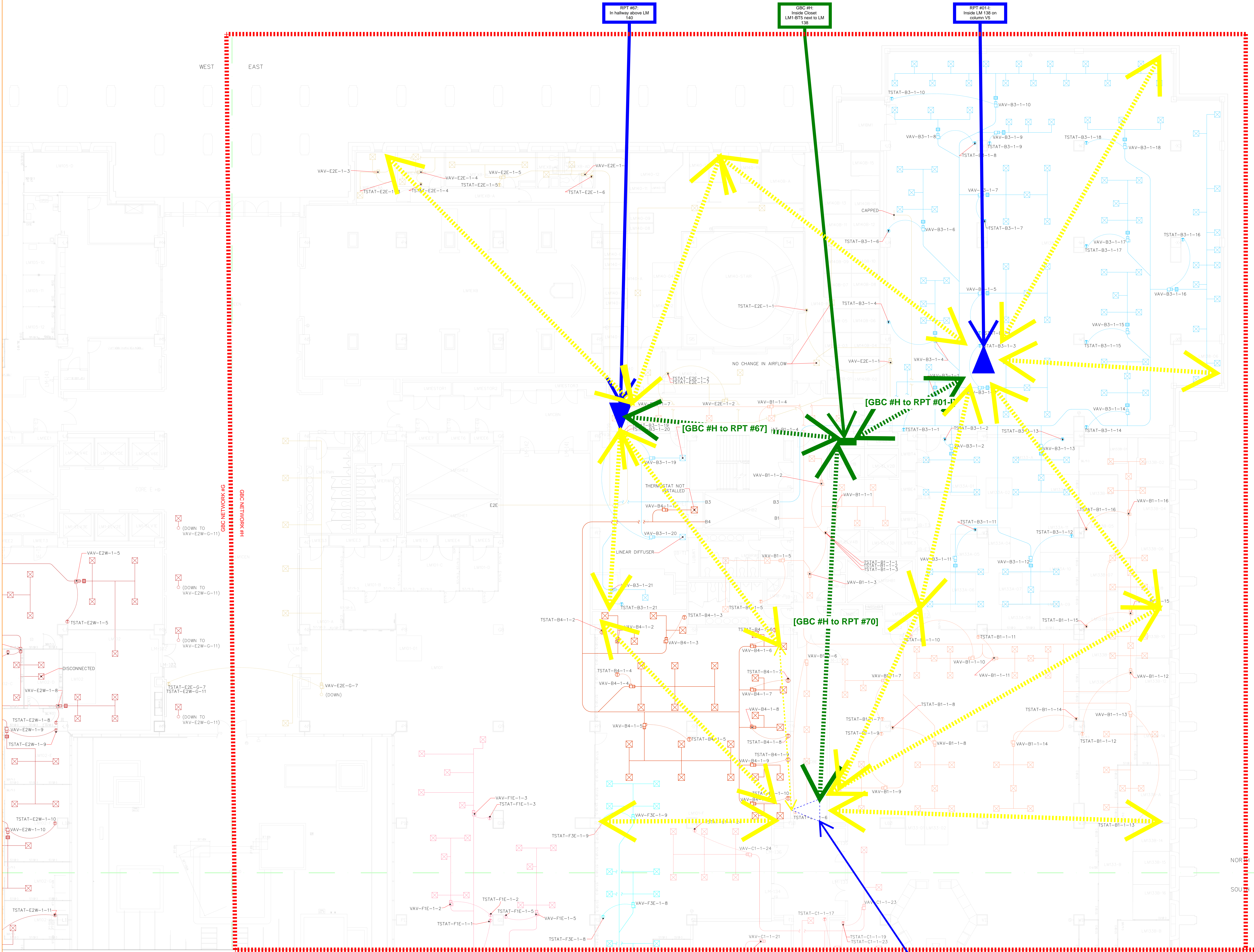
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# JAMES MADISON BUILDING FIRST FLOOR NORTH EAST



REVISIONS	DATE	DESCRIPTION

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

Device names on primary path

[A to B]

Minimum wireless range served from device

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SYMBOL	DESCRIPTION	UNIT NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC R01 COM	1
	WIRELESS REPEATER (RPT)	WPT R02 RPT	2
	WIRELESS NETWORK (GBC NETWORK #)		1

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PROJECT  
JAMES MADISON MEMORIAL BUILDING  
HVC FUNCTIONAL SURVEY

DATE	4/03/2020
SURVEY FINAL	
1ST FLOOR	
1/8" = 1'-0"	E. BARNES J. FISHER



REVISIONS	DATE

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

Device names on primary path

Minimum wireless range served from device

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SYMBOL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC-RD-COM	1
	WIRELESS REPEATER (RPT)	RPT-RD-RPT	7
	WIRELESS NETWORK (GBC NETWORK #1)		1

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PROJECT  
JAMES MADISON MEMORIAL BUILDING

SCOPE  
HVAC FUNCTIONAL SURVEY

DATE  
4/03/2020

SURVEY FINAL

1ST FLOOR

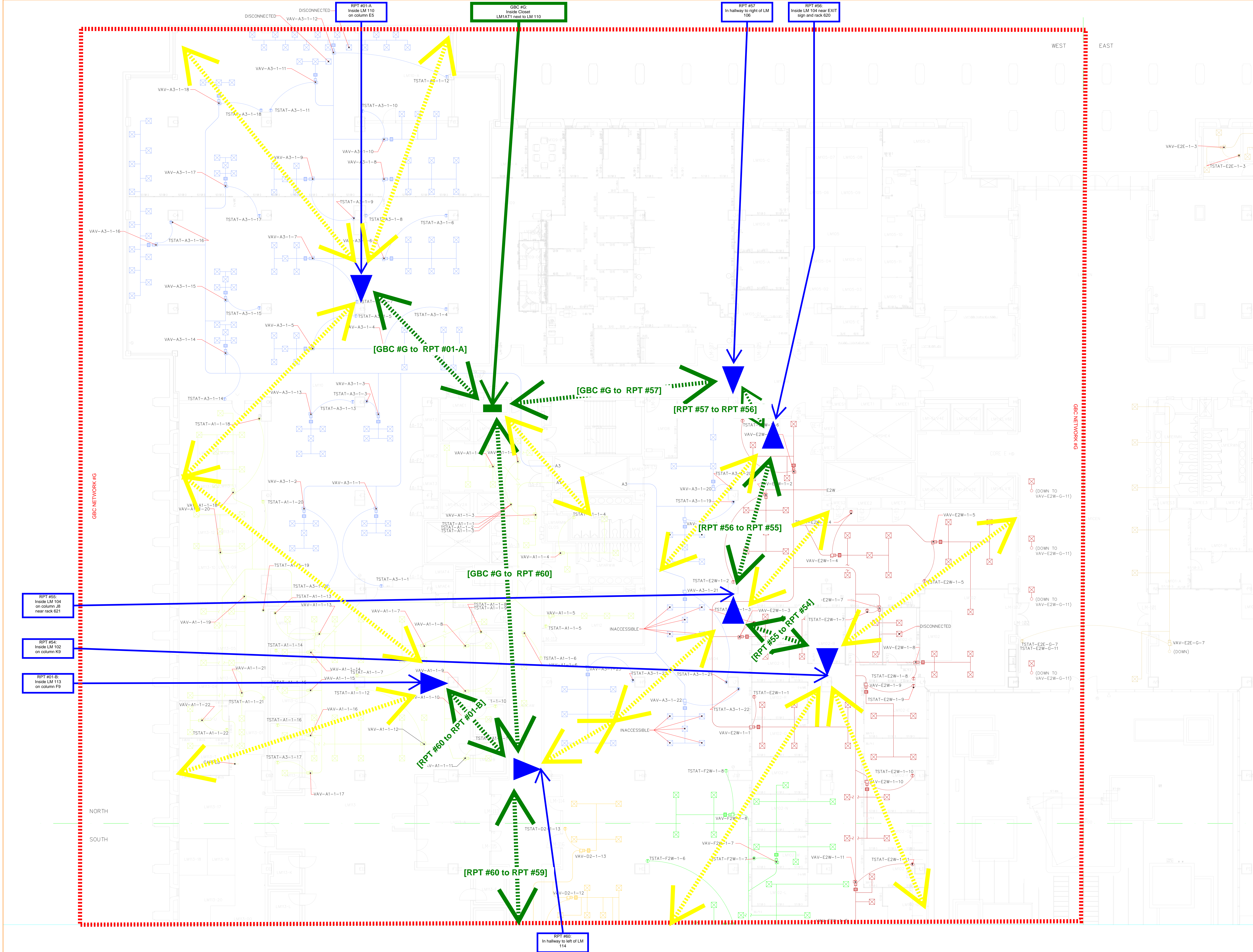
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DATE

DATE

DATE

DATE



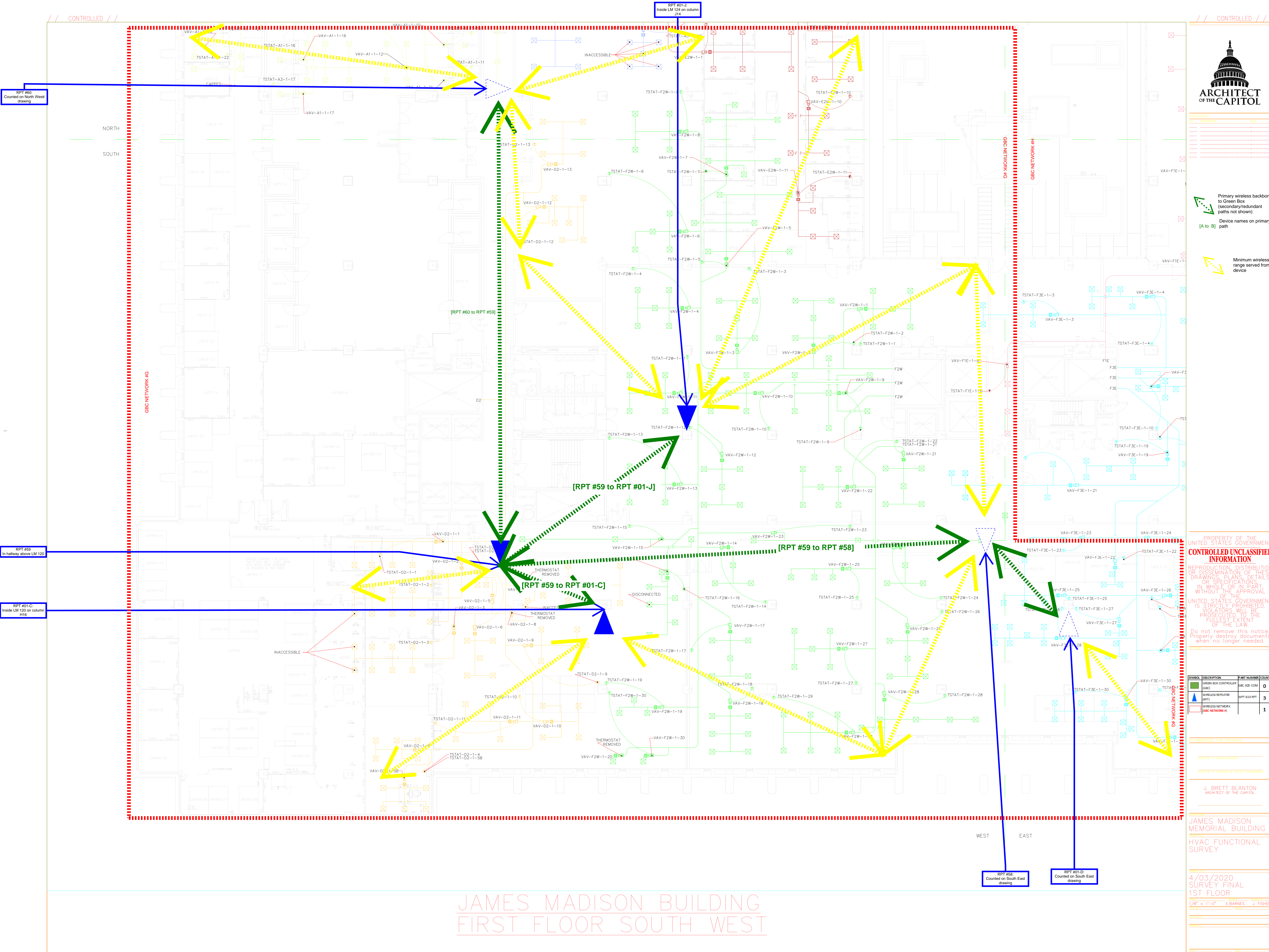
JAMES MADISON BUILDING  
FIRST FLOOR NORTH WEST



Minimum wireless range served from device

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DATE	TIME





Primary wireless backbone  
to Green Box  
(secondary/redundant  
paths not shown)




[A to B] Device names on primary  
path

Minimum wireless range served from device

RPT #85:  
Inside LM2

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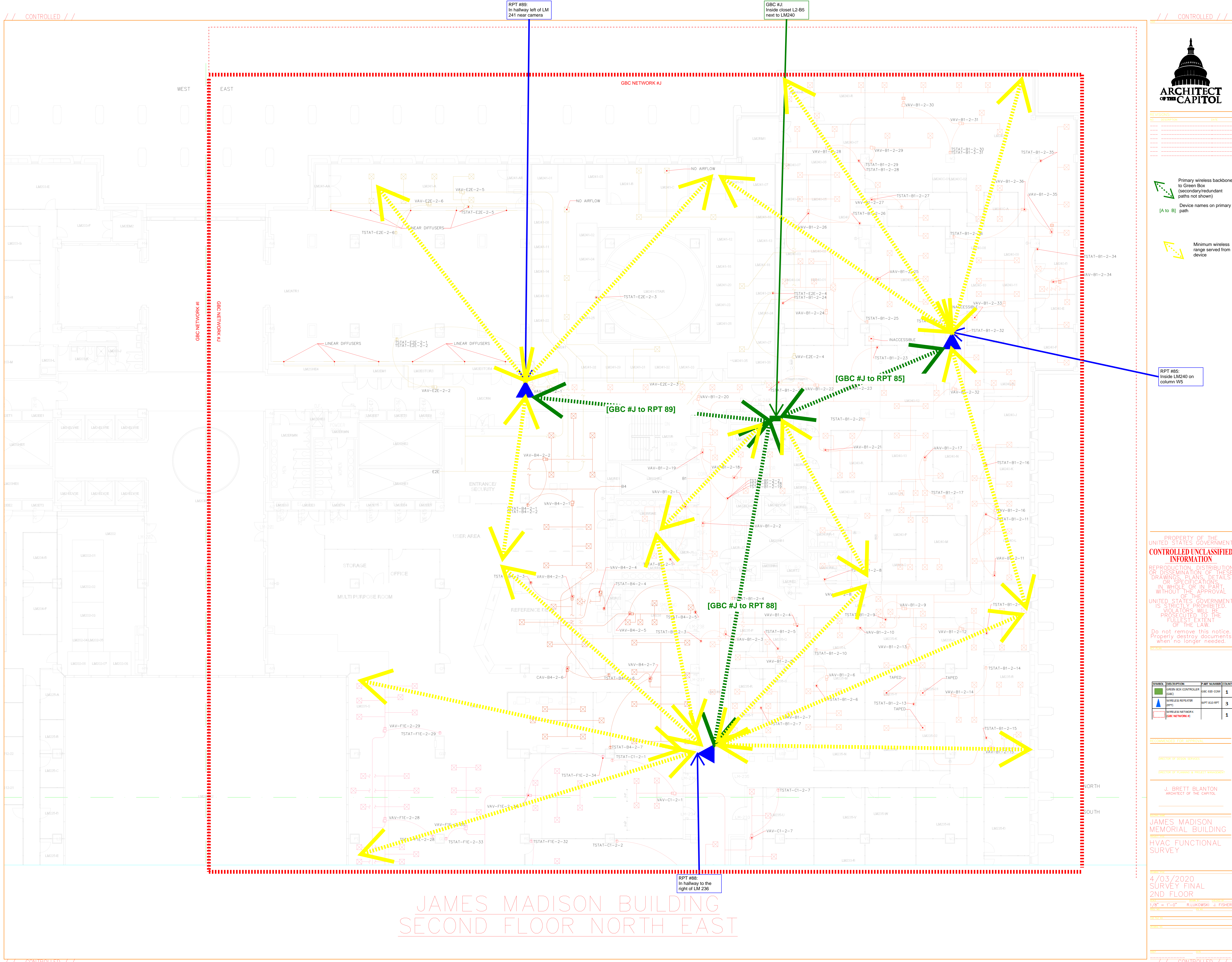
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	GREEN BOX CONTROLLER (GBC)	GBC 830 COM	1
	WIRELESS REPEATER (RPT)	WPT 810 RPT	3
	WIRELESS NETWORK K (GBC NETWORK #)		1

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MEMORIAL BUILDING**

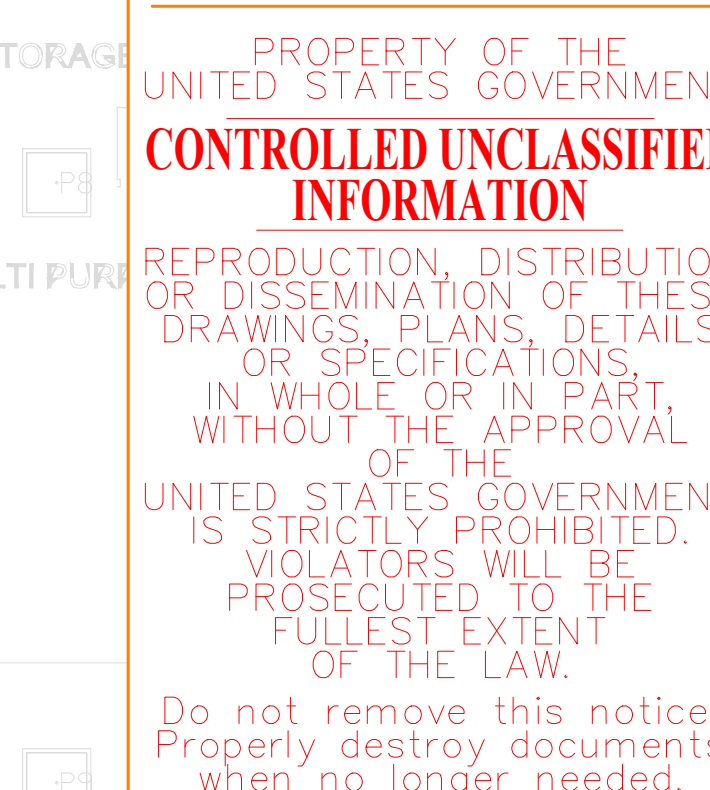
SCALE	DRAWN BY	CHECKED BY
1/8" = 1'-0"	R. LUKOWSKI	J. FISHER




SPRINT	DATE
--------	------





Minimum wireless range served from device



SYMBOL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC 810 COM	1
	WIRELESS REPEATER (RPT)	WPT 810 RPT	3
	WIRELESS NETWORK (GBC NETWORK #)		1

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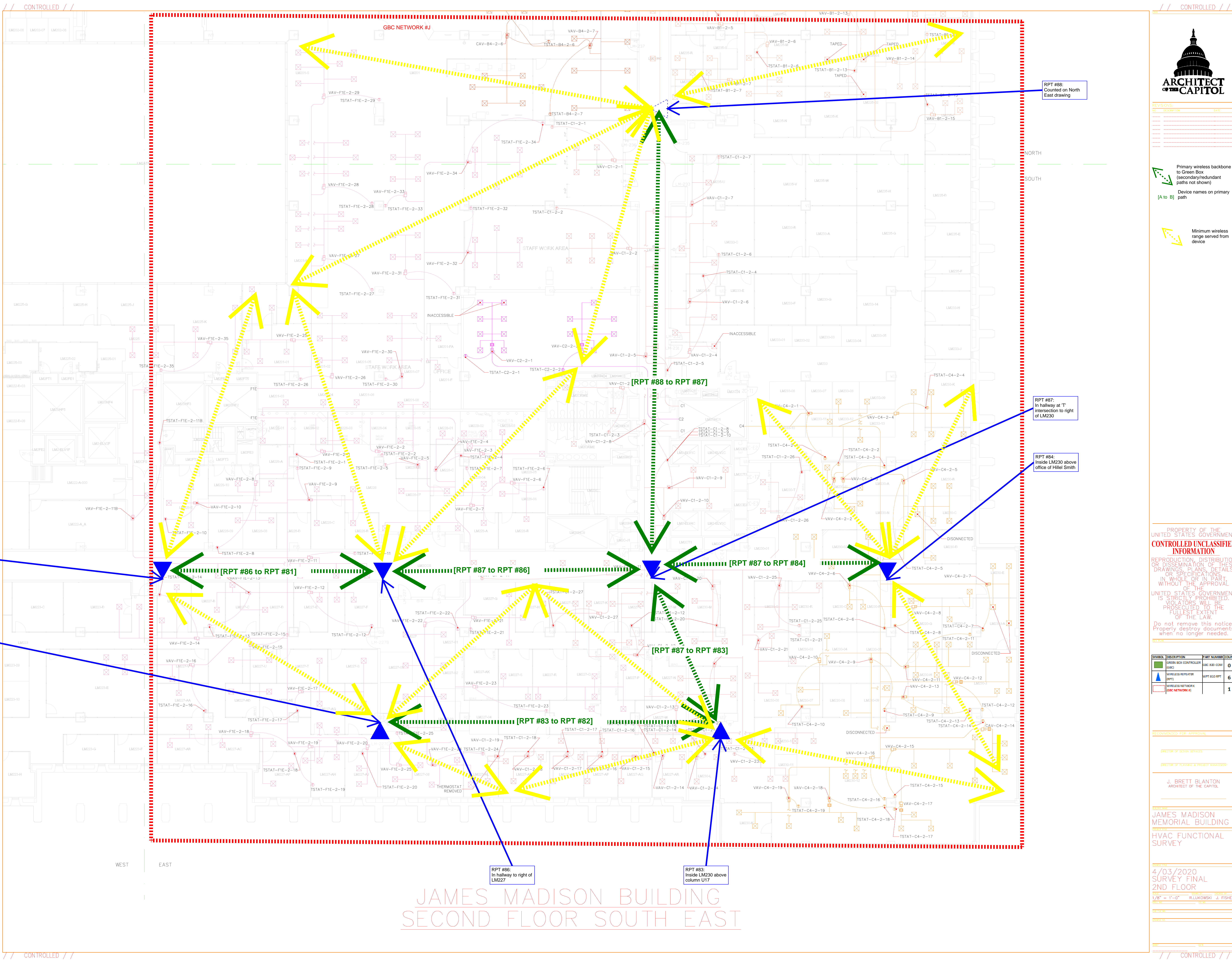
DIRECTOR OF PLANNING & PROJECT MANAGEMENT

**BUILDING NAME**  
JAMES MADISON  
MEMORIAL BUILDING

**PROJECT TYPE**  
HVAC FUNCTIONAL  
SURVEY

4/03/2020  
SURVEY FINAL  
2ND FLOOR

SCALE	DRAWN BY	CHECKED BY
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PROJECT NO.	DATE	
DATE PLOT		
DATE PRINT		



ARCHITECT OF THE CAPITOL

REVISIONS:

NO.	DESCRIPTION	DATE

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

Device names on primary path

Minimum wireless range served from device

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SYMBOL	DESCRIPTION	NET NAME	COUNT
	GREEN BOX CONTROLLER (GBC)	ABC-BID-CDM	0
	WIRELESS REPEATER (WRT)	WRT-BID-RPT	6
	WIRELESS NETWORK (GBC NETWORK #J)		1

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HVAC FUNCTIONAL SURVEY

4/03/2020  
SURVEY FINAL  
2ND FLOOR

1/8" = 1'-0" R. LUKOWSKI J. FISHER



REVISIONS		
NO.	DESCRIPTION	DATE

NORTH  
SOUTH



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HVAC FUNCTIONAL  
SURVEY

4/03/2020  
SURVEY FINAL  
2ND FLOOR

1/8" = 1'-0" R. LUKOWSKI J. FISHER

4/03/2020

4/03/2020


4/03/2020

4/03/2020

4/03/2020

4/03/2020

JAMES MADISON BUILDING  
SECOND FLOOR SOUTH WEST

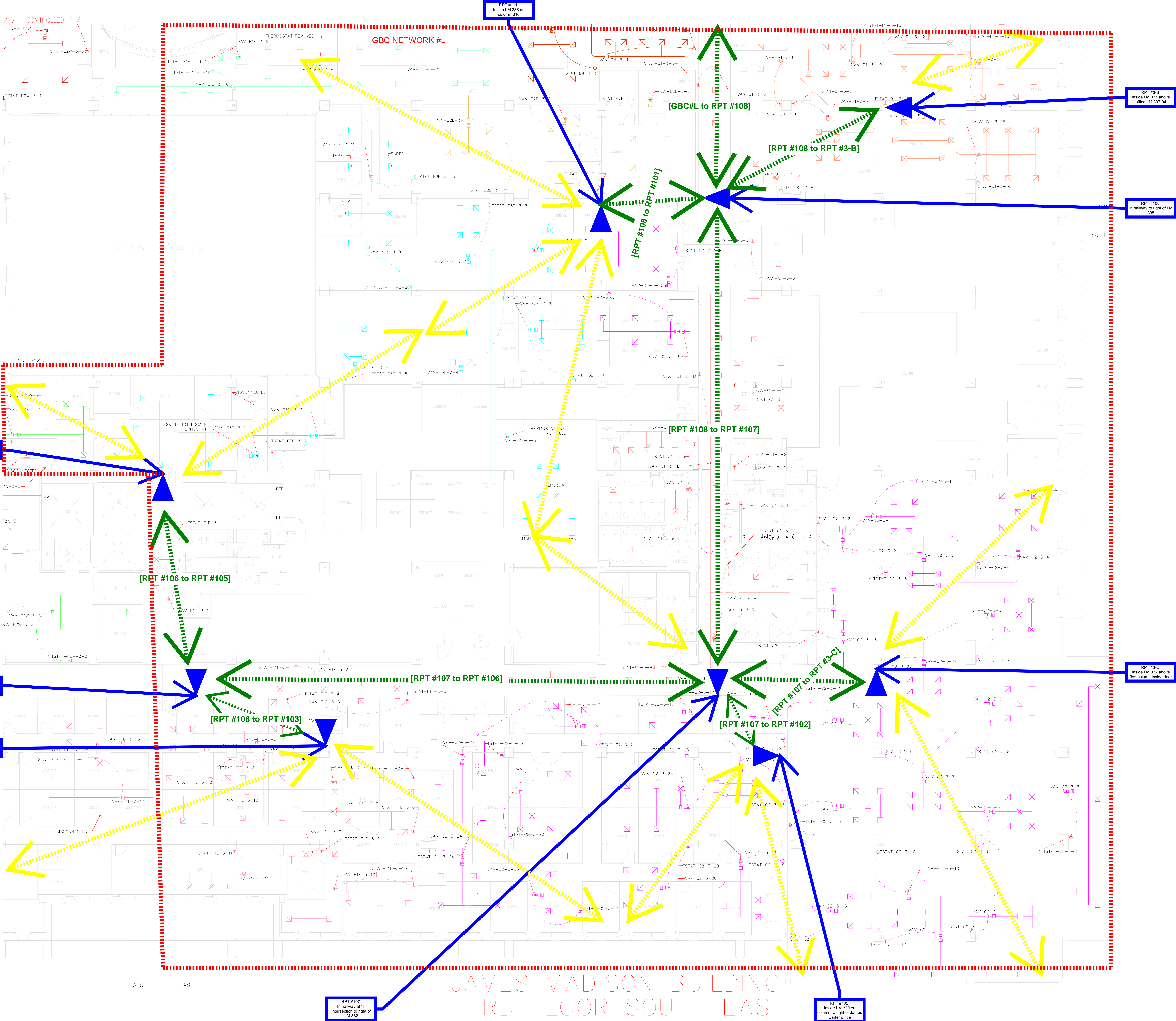
 Minimum wireless range served from device

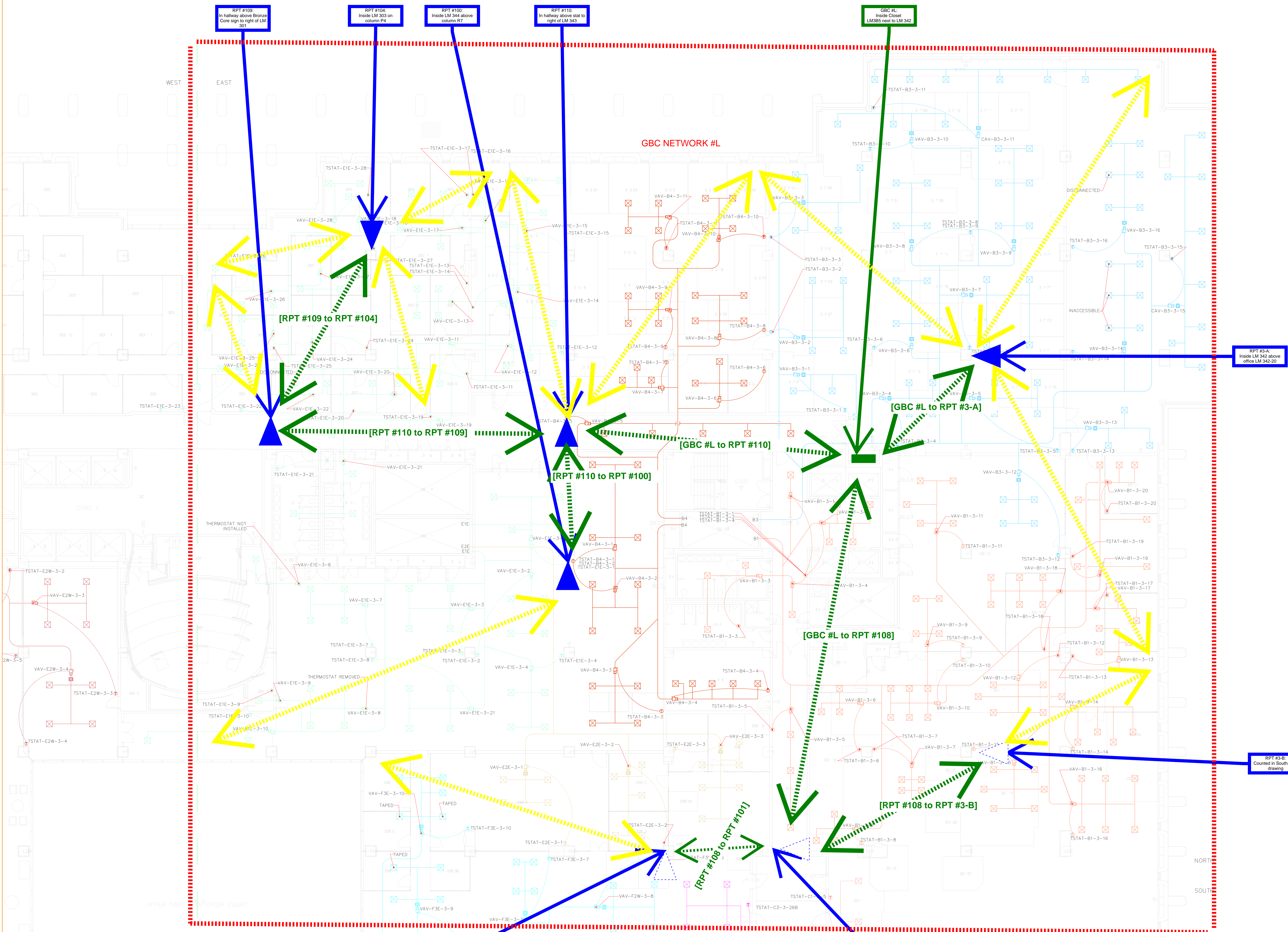
DL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC 820 COM	0
	WIRELESS REPEATER (RPT)	WPT 810 RPT	9
	WIRELESS NETWORK K (GBC NETWORK #)		1

JAMES MADISON  
MEMORIAL BUILDING  
FALL  
VAC FUNCTIONAL  
SURVEY

QED. E.BARNES J. FISHER

QED. E.BARNES J. FISHER





SYMBOL	DESCRIPTION	DATE

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

Device names on primary path

[A to B]

Minimum wireless range served from device

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SYMBOL	DESCRIPTION	RPT NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC-BOX-COM	1
	WIRELESS REPEATER (WRT)	WRT-BOX-RPT	5
	WIRELESS NETWORK (GBC NETWORK #L)		1

RECOMMENDED FOR APPROVAL

DIRECTOR OF LEGAL SERVICES

DIRECTOR OF PLANNING & POLICY DEVELOPMENT

J. BRETT BLUNTON  
ARCHITECT OF THE CAPITOL

PROJECT  
JAMES MADISON MEMORIAL BUILDING

SCOPE  
HVAC FUNCTIONAL SURVEY

DATE  
4/03/2020

SURVEY FINAL

3RD FLOOR

1/8" = 1'-0" E. BARNES J. FISHER

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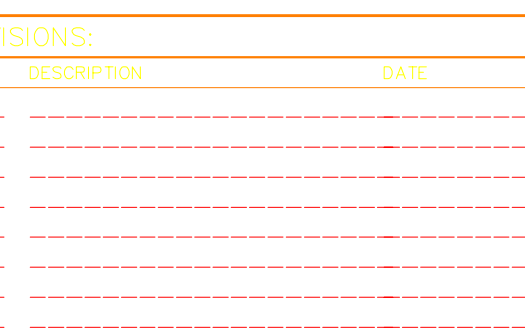
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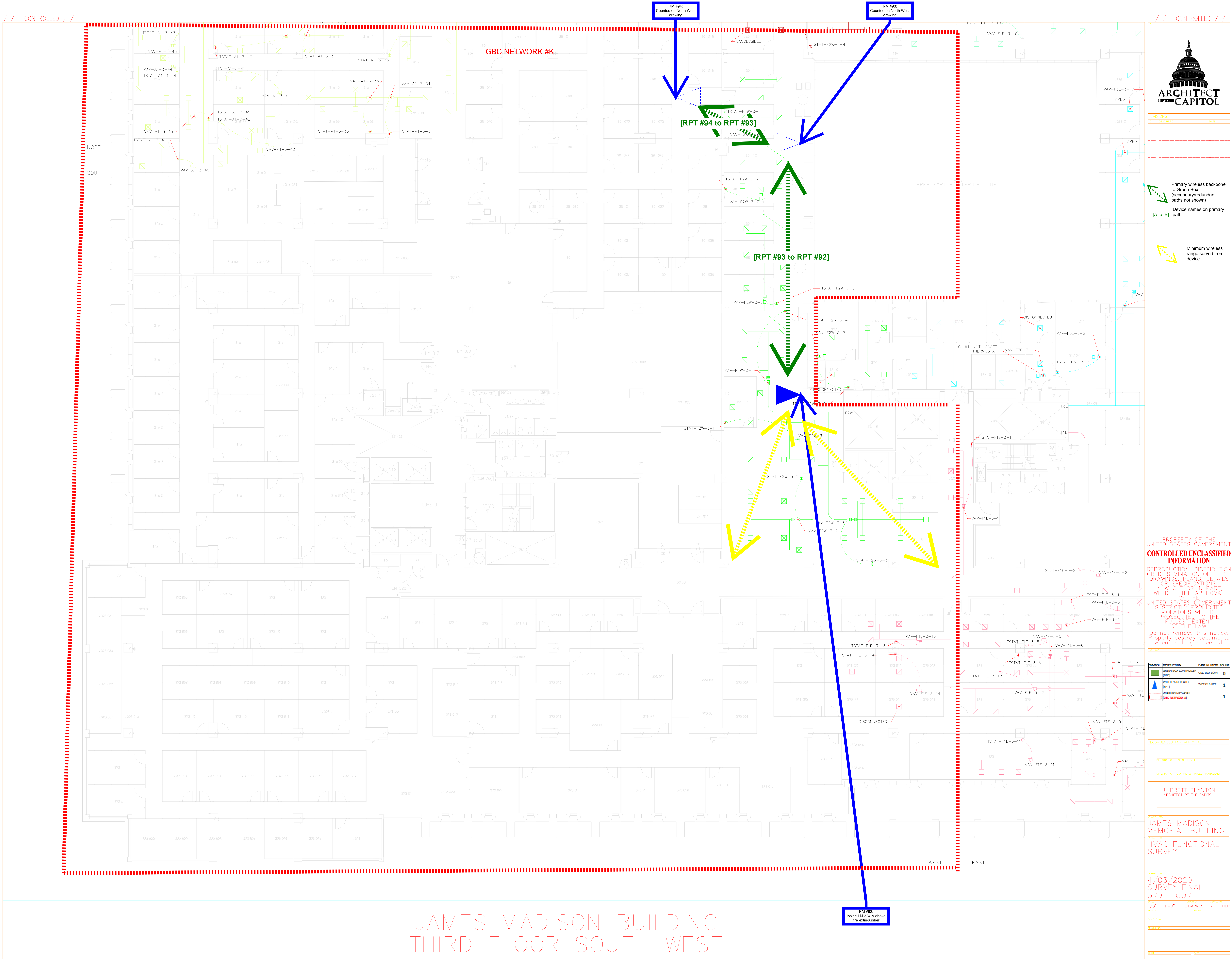
DATE  
4/03/2020



Minimum wireless range served from device

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REVISIONS	DATE
NO DESCRIPTION	

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

Device names on primary path [A to B]

Minimum wireless range served from device

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REVISION	DESCRIPTION	DATE	BY	APP
0	GREEN BOX CONTROLLER (GBC)	4/03/2020	J. FISHER	
1	WIRELESS REPEATER (WRT)	4/03/2020	J. FISHER	
1	WIRELESS NETWORK (WNC)	4/03/2020	J. FISHER	

RECOMMENDED FOR APPROVAL

DIRECTOR OF DESIGN SERVICES

DIRECTOR OF PLANNING & PROJECT MANAGEMENT

J. BRETT BLUNT

ARCHITECT OF THE CAPITOL

JAMES MADISON MEMORIAL BUILDING

HVAC FUNCTIONAL SURVEY

4/03/2020 SURVEY FINAL 3RD FLOOR

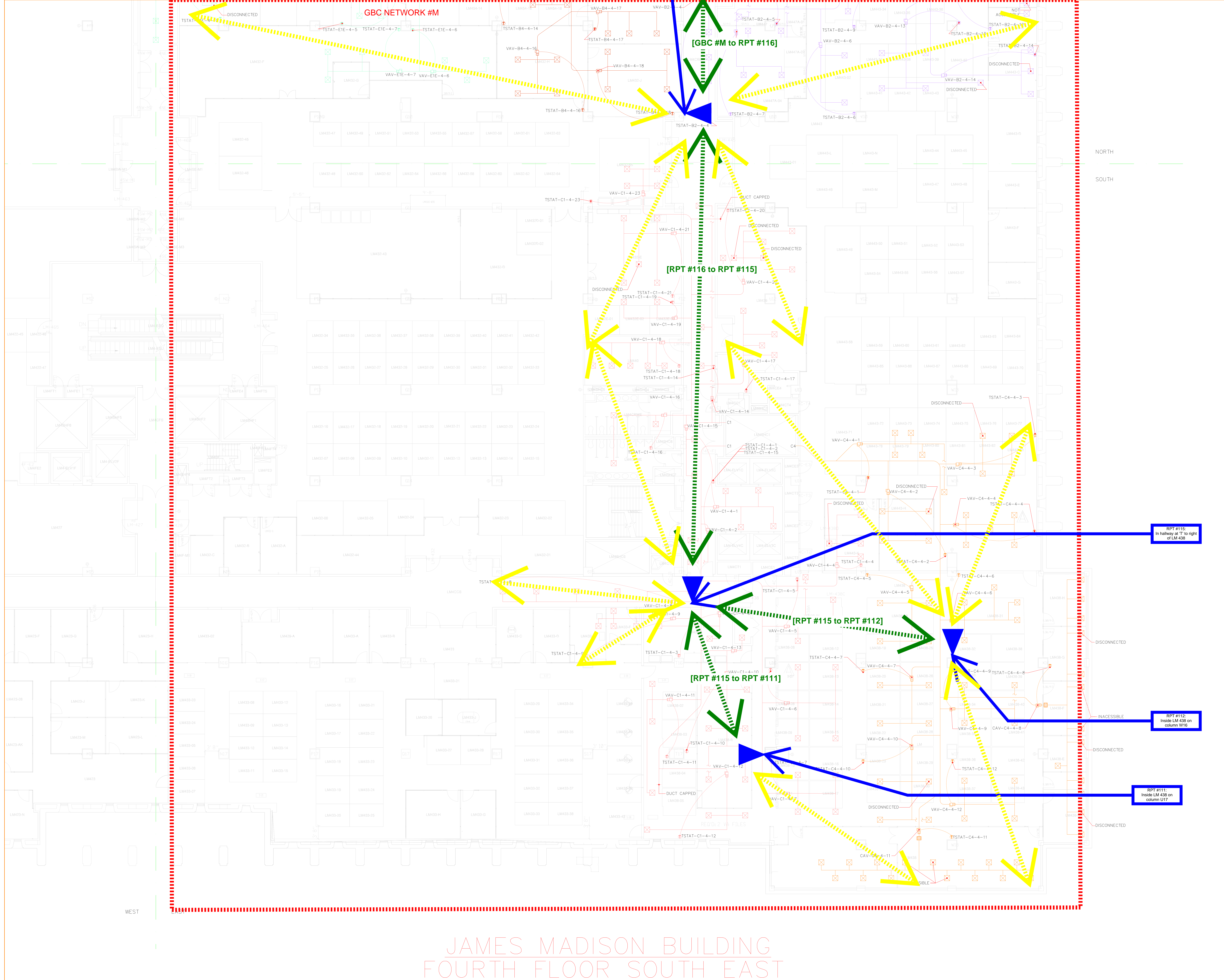
1/8" = 1'-0" E. BARNES J. FISHER

DATE: 4/03/2020

DATE: 4/03/2020

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DATE: 4/03/2020





ARCHITECT  
OF THE  
CAPITOL

REVISIONS

NO.	DESCRIPTION	DATE

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

Device names on primary path

Minimum wireless range served from device

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SYMBOL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC-BOX-001	0
	WIRELESS REPEATER (RPT)	RPT-510-RPT	4
	WIRELESS NETWORK (GBC NETWORK #1)		1

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DIRECTOR OF DESIGN SERVICES

DIRECTOR OF PLANNING & PROJECT MANAGEMENT

J. BRETT BLUNTON  
ARCHITECT OF THE CAPITOL

PROJECT  
JAMES MADISON MEMORIAL BUILDING

DISCIPLINE  
HVAC FUNCTIONAL SURVEY

DATE  
4/03/2020

SURVEY FINAL

4TH FLOOR

1/8" = 1'-0" E. BARNES J. FISHER

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4/03/2020

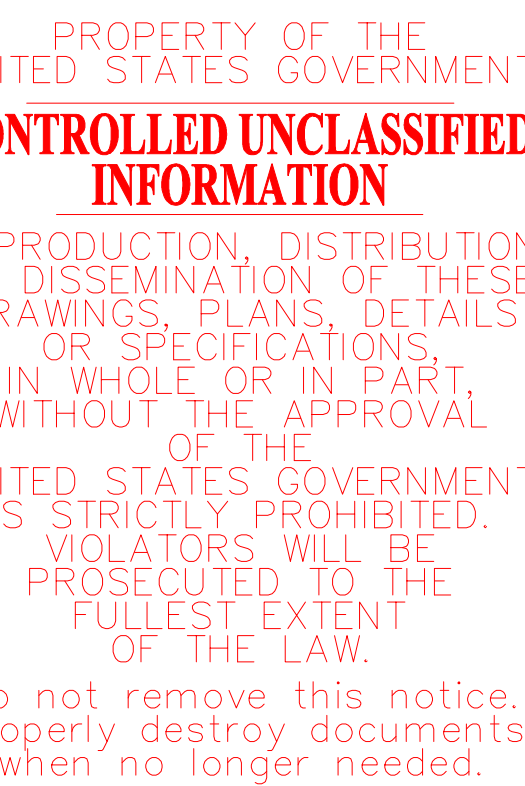
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4/03/2020

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4/03/2020

# JAMES MADISON BUILDING FOURTH FLOOR SOUTH EAST

Minimum wireless range served from device



DL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC 830 COM	1
	WIRELESS REPEATER (RPT)	WPT 810 RPT	5
	WIRELESS NETWORK (GBC NETWORK #)		1

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REVISIONS	NO.	DESCRIPTION	DATE



# JAMES MADISON BUILDING FOURTH FLOOR NORTH WEST

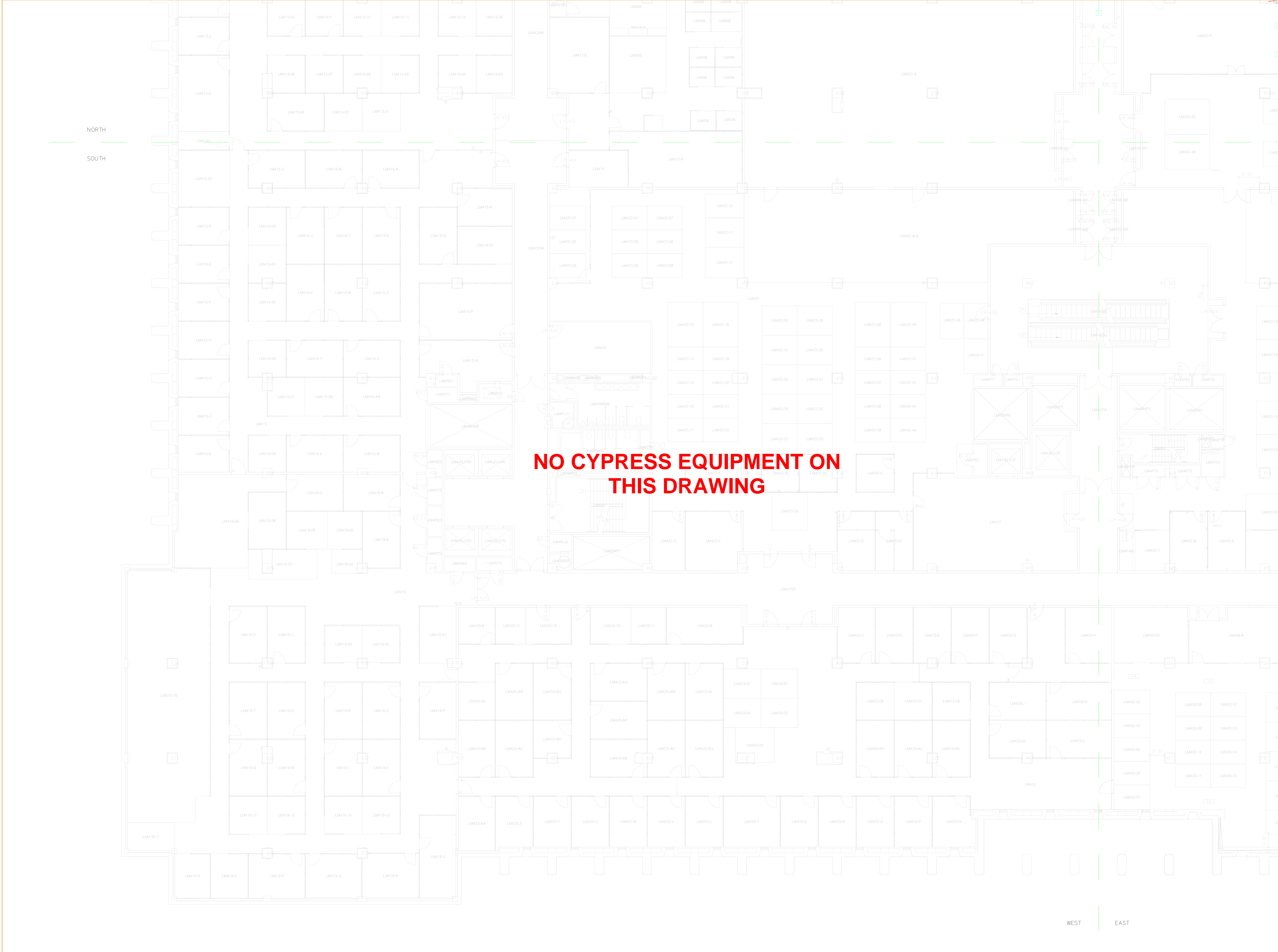
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DIRECTOR OF DESIGN SERVICES  
DIRECTOR OF PLANNING & PROJECT MANAGEMENT  
J. BRETT BLANTON  
ARCHITECT OF THE CAPITOL  
JAMES MADISON  
MEMORIAL BUILDING  
HVAC FUNCTIONAL  
SURVEY

DATE  
4/03/2020  
SURVEY FINAL  
4TH FLOOR  
1/8" = 1'-0" E. BARNES J. FISHER  
DATE  
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REVISIONS	NO.	DESCRIPTION	DATE



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RECOMMENDED FOR APPROVAL

DIRECTOR OF DESIGN SERVICES

DIRECTOR OF PLANNING & PROJECT MANAGEMENT

J. BRETT BLUNTON  
ARCHITECT OF THE CAPITOL

PROJECT  
JAMES MADISON  
MEMORIAL BUILDING

OBJECTIVE  
HVAC FUNCTIONAL  
SURVEY

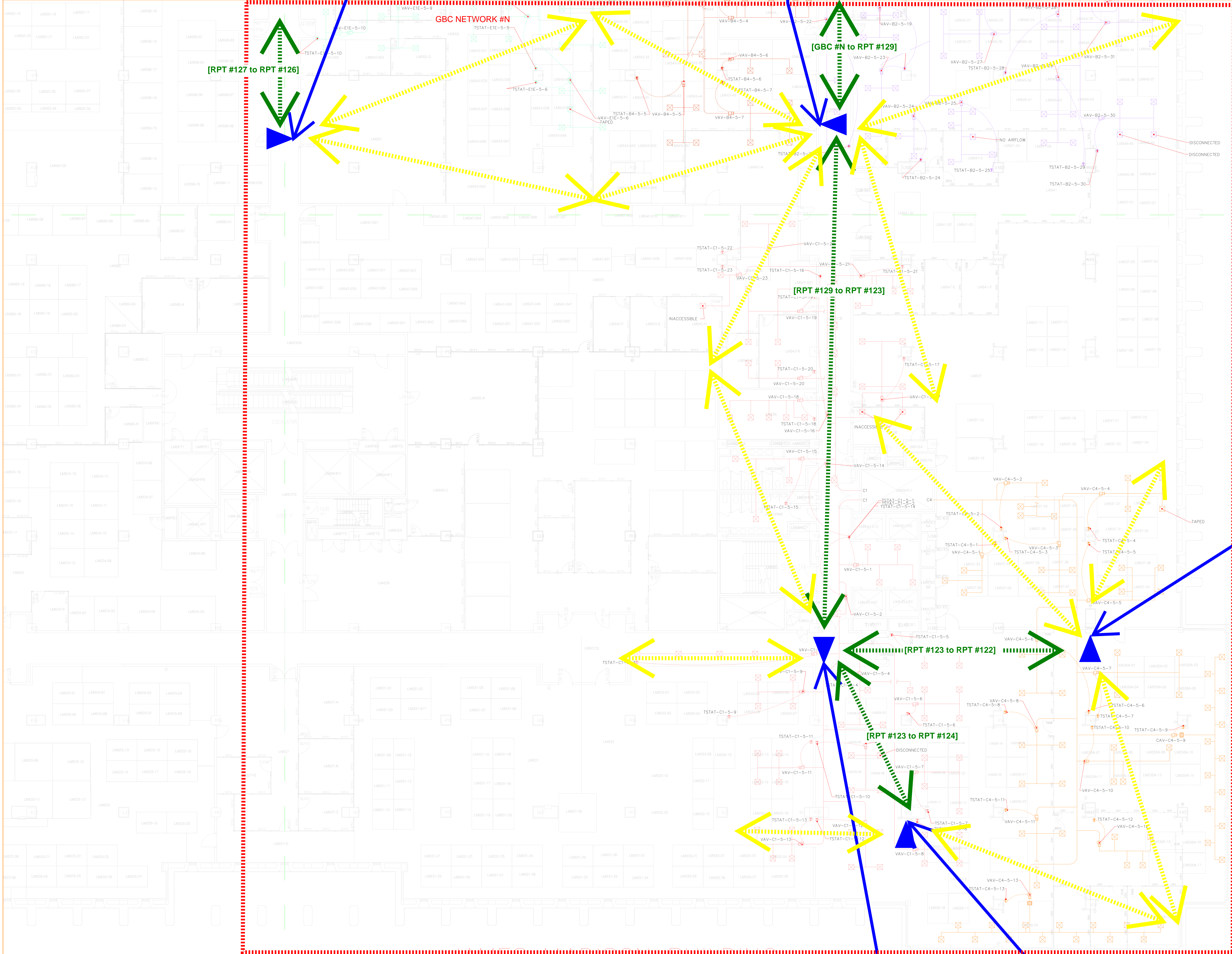
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SURVEY FINAL  
4TH FLOOR

SCALE  
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DATE

JAMES MADISON BUILDING  
FOURTH FLOOR SOUTH WEST





ARCHITECT  
OF THE  
CAPITOL

REVISIONS

NO.	DESCRIPTION	DATE

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

Device names on primary path

[A to B]

Minimum wireless range served from device

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SYMBOL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC RED CLIM	0
	WIRELESS REPEATER (RPT)	RPT RED RPT	5
	WIRELESS NETWORK (GBC NETWORK #)		1

RECOMMENDED FOR APPROVAL

\_\_\_\_\_  
DIRECTOR OF DESIGN SERVICES

\_\_\_\_\_  
DIRECTOR OF PLANNING & PROJECT MANAGEMENT

\_\_\_\_\_  
J. BRETT BLANTON  
ARCHITECT OF THE CAPITOL

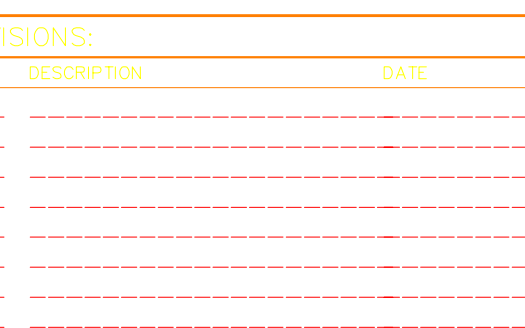
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JAMES MADISON  
MEMORIAL BUILDING

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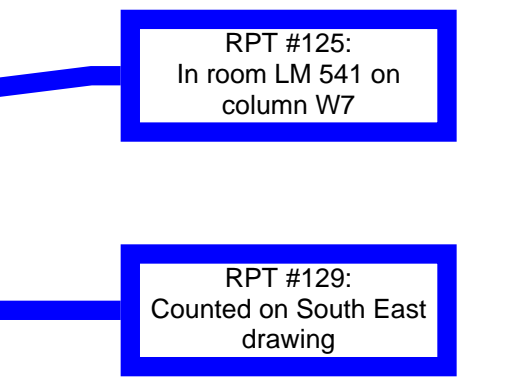
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5TH FLOOR

SCALE: 1/8" = 1'-0"  
E. BARNES  
J. FISHER



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Minimum wireless range served from device



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SOL	DESCRIPTION	PART NUMBER	COUNT
	GREEN BOX CONTROLLER (GBC)	GBC 82D COM	1
	WIRELESS REPEATER (RPT)	WPT 81D RPT	5
	WIRELESS NETWORK (GBC NETWORK #)		1

JAMES MADISON  
MEMORIAL BUILDING  
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VAC FUNCTIONAL  
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SURVEY FINAL  
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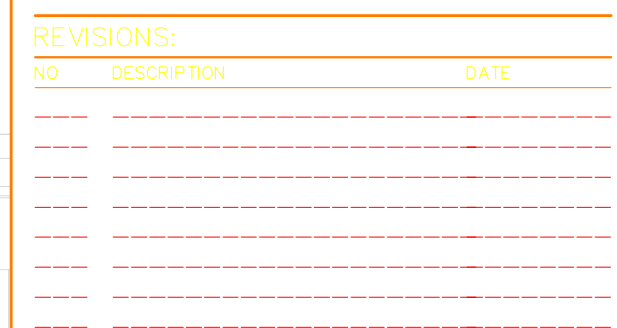
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REVISIONS	DESCRIPTION	DATE



# JAMES MADISON BUILDING FIFTH FLOOR SOUTH WEST

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RECOMMENDED FOR APPROVAL

DIRECTOR OF DESIGN SERVICES

DIRECTOR OF PLANNING & PROJECT MANAGEMENT

J. BRETT BLANTON  
ARCHITECT OF THE CAPITOL

PROJECT NO.  
JAMES MADISON  
MEMORIAL BUILDING

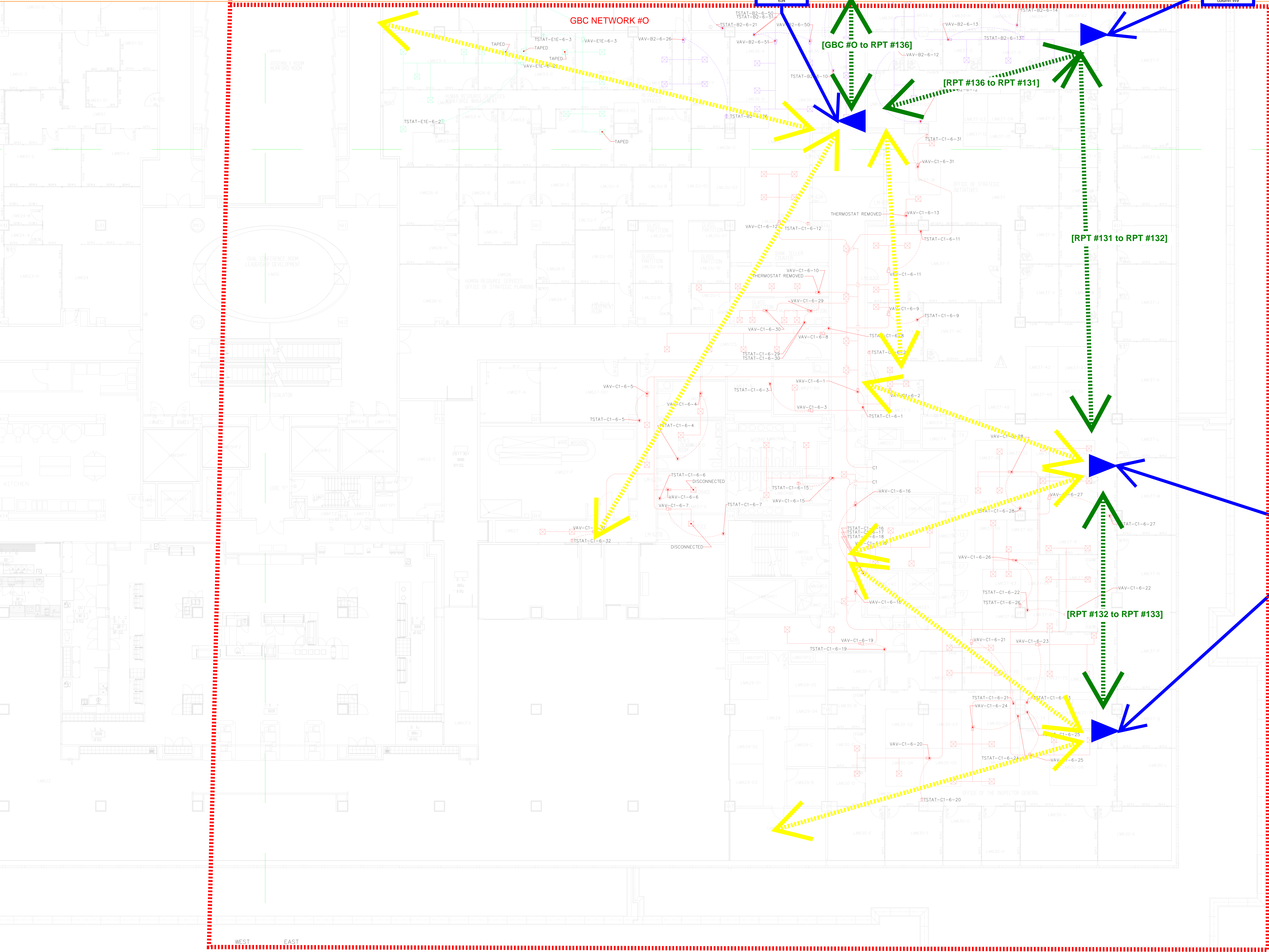
DRAWING NO.  
HVAC FUNCTIONAL  
SURVEY

DRAWN BY  
4/03/2020  
SURVEY FINAL  
5TH FLOOR

1/8" = 1'-0" E. BARNES J. FISHER

CHECKED BY

DATE



JAMES MADISON BUILDING  
SIXTH FLOOR SOUTH EAST

ARCHITECT  
CAPITOL

REVISIONS

NO.	DESCRIPTION	DATE

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

Device names on primary [A to B] path

Minimum wireless range served from device

RPT #136: In hallway to right of LM 634

RPT #131: Inside LM 639 on column W19

RPT #132: Inside LM 637 between columns W13 & W14

RPT #133: Inside LM 637 between columns W16 & W17

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SYMBOL DESCRIPTION PART NUMBER COUNT

	GREEN BOX CONTROLLER (RPT)	GBC 83D CDM	0
	WIRELESS REPEATER (RPT)	WPT 810 RPT	4
	WIRELESS NETWORK (GBC NETWORK #0)		1

RECOMMENDED FOR APPROVAL

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JAMES MADISON MEMORIAL BUILDING

HVAC FUNCTIONAL SURVEY

DATE: 4/03/2020  
SURVEY FINAL  
6TH FLOOR

1/8" = 1'-0" E.BARNES J. FISHER



REVISIONS	DESCRIPTION	DATE

Primary wireless backbone to Green Box (secondary/redundant paths not shown)

[A to B] Device names on primary path

Minimum wireless range served from device

RPT #135:  
Counted on South East Drawing

RPT #131:  
Counted on South East Drawing

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SYMBOL	DESCRIPTION	PART NUMBER	COUNT
■	GREEN BOX CONTROLLER (GBC)	LAC-B2-COM	1
▲	WIRELESS REPEATER (RPT)	RPT-B2-RPT	3
—	WIRELESS NETWORK (GBC NETWORK #1)		1

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DIRECTOR OF DESIGN SERVICES

DIRECTOR OF PLANNING & PROJECT MANAGEMENT

J. BRETT BLANTON  
ARCHITECT OF THE CAPITOL

JAMES MADISON MEMORIAL BUILDING  
HVAC FUNCTIONAL SURVEY

DATE: 4/03/2020  
SURVEY FINAL  
6TH FLOOR  
SCALE: 1/8" = 1'-0" E. BARNES J. FISHER

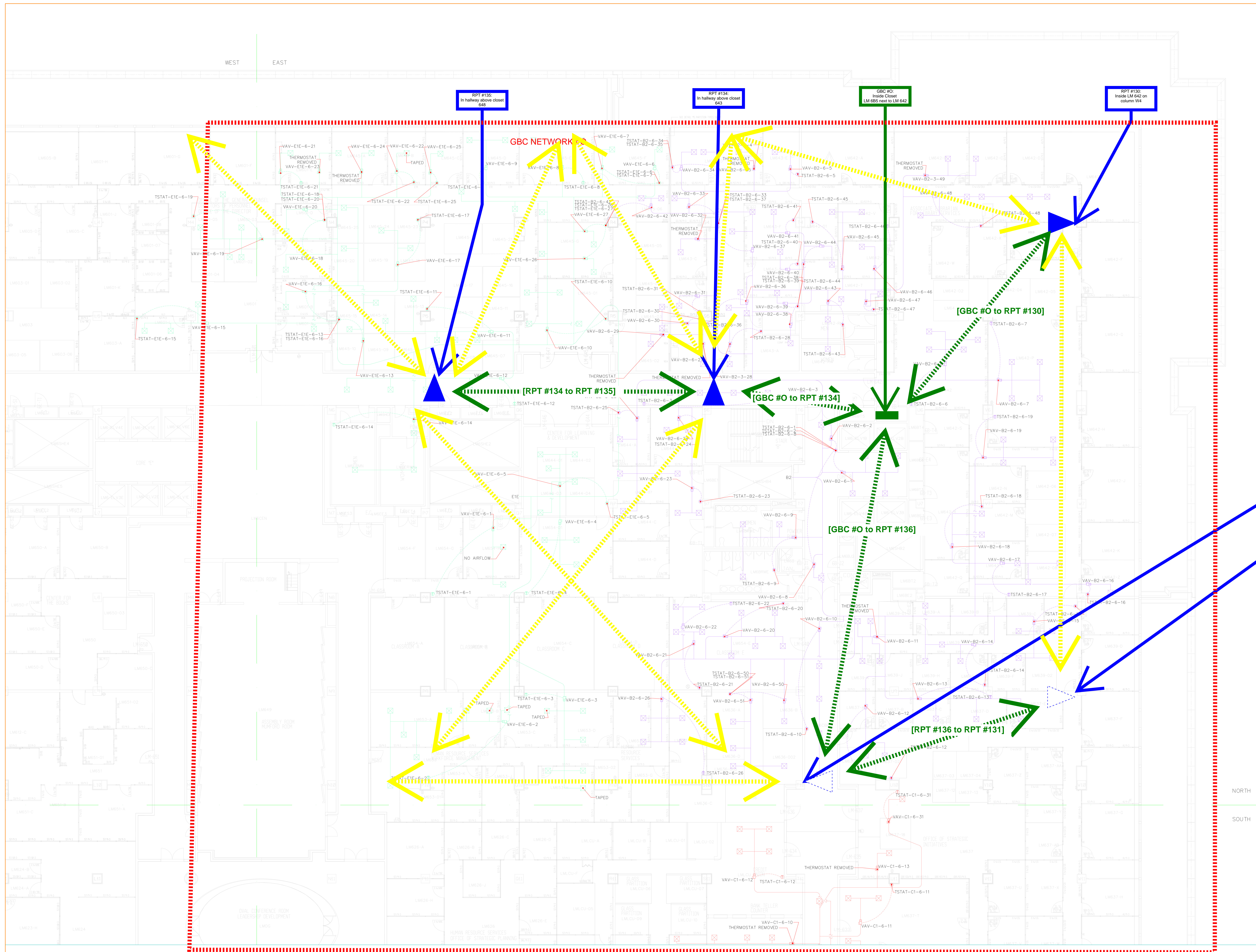
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REVISIONS	DATE
NO	DESCRIPTION

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DIRECTOR OF PLANNING & PROJECT MANAGEMENT

J. BRETT BLANTON  
ARCHITECT OF THE CAPITOL

PROJECT  
JAMES MADISON  
MEMORIAL BUILDING  
HVAC FUNCTIONAL  
SURVEY

DATE  
4/03/2020  
SURVEY FINAL  
6TH FLOOR

SCALE  
1/8" = 1'-0" E.BARNES J. FISHER

DATE

CONTROLLED

JAMES MADISON BUILDING  
SIXTH FLOOR NORTH WEST

CONTROLLED

NORTH  
SOUTH



REVISIONS	DATE

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ARCHITECT OF THE CAPITOL

PROJECT  
JAMES MADISON  
MEMORIAL BUILDING  
HVAC FUNCTIONAL  
SURVEY

DATE  
4/03/2020  
SURVEY FINAL  
6TH FLOOR

SCALE  
1/8" = 1'-0"  
E. BARNES J. FISHER

DATE

DATE

DATE

DATE

JAMES MADISON BUILDING  
SIXTH FLOOR SOUTH WEST