



JOHN JAY COLLEGE
THE CITY UNIVERSITY OF NEW YORK
OF CRIMINAL JUSTICE

John Jay Expansion Project Technology Overview



Finance & Administration Team



Technology Elements

- Classroom Technology
- Computer labs
- Cyber lounges
- Public Display Units
- Datacenter
- Network Infrastructure
- Wireless Infrastructure
- Telecommunications





Classroom Technology

- Classrooms will be equipped with Crestron® touch control panels
- Harren Hall is presently being equipped with these
- Provides for multiple device support, remote management and simplified laptop connectivity
- Eliminates stand-alone remote controls





Classroom Technology...cont'd

- Four levels of classroom AV Equipment fit-outs for Day 1
- Base fit-out is common across all classrooms (control screen, projector, VCR/DVD, etc...)
- A large number of classrooms include additional features from the base fit-out





Classroom Technology...cont'd

Audio Visual	Classroom Size Audio #
<p>Level 1:</p> <ol style="list-style-type: none"> 1. Projection Screen 2. LCD Data/ video projector mounted on ceiling 3. Program sound system 4. Sources for projector <ol style="list-style-type: none"> a. VCR/DVD Combo b. Computer c. AV Switcher/ Audio Amplifier 5. Laptop Connection 6. Black and white 4" touch screen <ol style="list-style-type: none"> a. For control of AV equipment 	<ol style="list-style-type: none"> 4- 16 Seat Classrooms 4- 25 Seat Classrooms 1- 38 Seat Classrooms 35- 40 Seat Classrooms 1- 44 Seat Classrooms 2- 45 Seat Classrooms <p>Also Math Teaching and Computer Labs and English Labs</p>
<p>Level 2.3:</p> <ol style="list-style-type: none"> 1. Same level 1, and add the following: 2. Second projection screen and projector 3. No Distance learning necessary 	<ol style="list-style-type: none"> 2- 25 Seat Seminars 2- 40 Seat Classrooms 1- 76 Seat Classrooms 2- 120 Seat Classrooms
<p>Level 2.5:</p> <ol style="list-style-type: none"> 1. Same as level 2.3 and add the following: 2. Video cameras and microphones for recording class interactions 3. Upgraded touch panel 	<ol style="list-style-type: none"> 3- 25 Seat Seminars 2- 40 Seat Seminars 1- 45 Seat Seminars
<p>Level 2.3:</p> <ol style="list-style-type: none"> 1. All the same dedicated equipment for a level 1 Rooms plus the following: 2. Second projection screen and projector 3. Cameras 4. Microphones 5. Upgraded touch panel 6. Back end equipment to facilitate distance learning 	<ol style="list-style-type: none"> 1- 25 Seat Seminars 1- 45 Seat Classrooms 1- 250 Seat Lecture Rm.



Classrooms Spaces

2nd floor – 120 seat (2), 45 seat (2) & 40 seat (1)

3rd floor – 250 seat (1) & 76 seat (1)

4th floor – 40 seat (34), 44 seat (5) & 38 seat (1)

6th floor – 40 seat (4) & 25 seat (4)

10th floor – 16 seat (1) & 25 seat (2)

11th floor – 16 seat (2) & 25 seat (4)

13th floor – 16 seat (1)

Total 65 classrooms





Classrooms Spaces...cont'd



40 Seats



120 Seats

59th Street

11th Avenue



4th Floor

58th Street



Computer Labs

- Academic labs are distributed throughout the new facility
- Increase of 311 computer stations over existing inventory of 727 computers (a 43% increase)
- General computing facilities include
 - One large 64 seat lab
 - One 24 seat lab
 - One 22 seat lab
 - Three 34 seat labs





Cyber Lounges

- Cyber Lounges will not be as they are today – no computers will be installed
- There will be many areas with power and data connectivity on various floors
- Robust wireless connectivity is intended to replace the need for fixed cyber lounge installations





Public Display Units

- Content delivery through 60 units all strategically located
- 26 units located next to the elevator banks
- Coolsign® content delivery system selected for campus signage solution
- Offers essentially unlimited scalability
- State-of-the-art network based delivery system with centralized management
- Displays a variety of digital media incorporating still images, full-motion graphics, and broadcast-quality video/audio
- Elements of a message can be changed manually or automatically at one central location



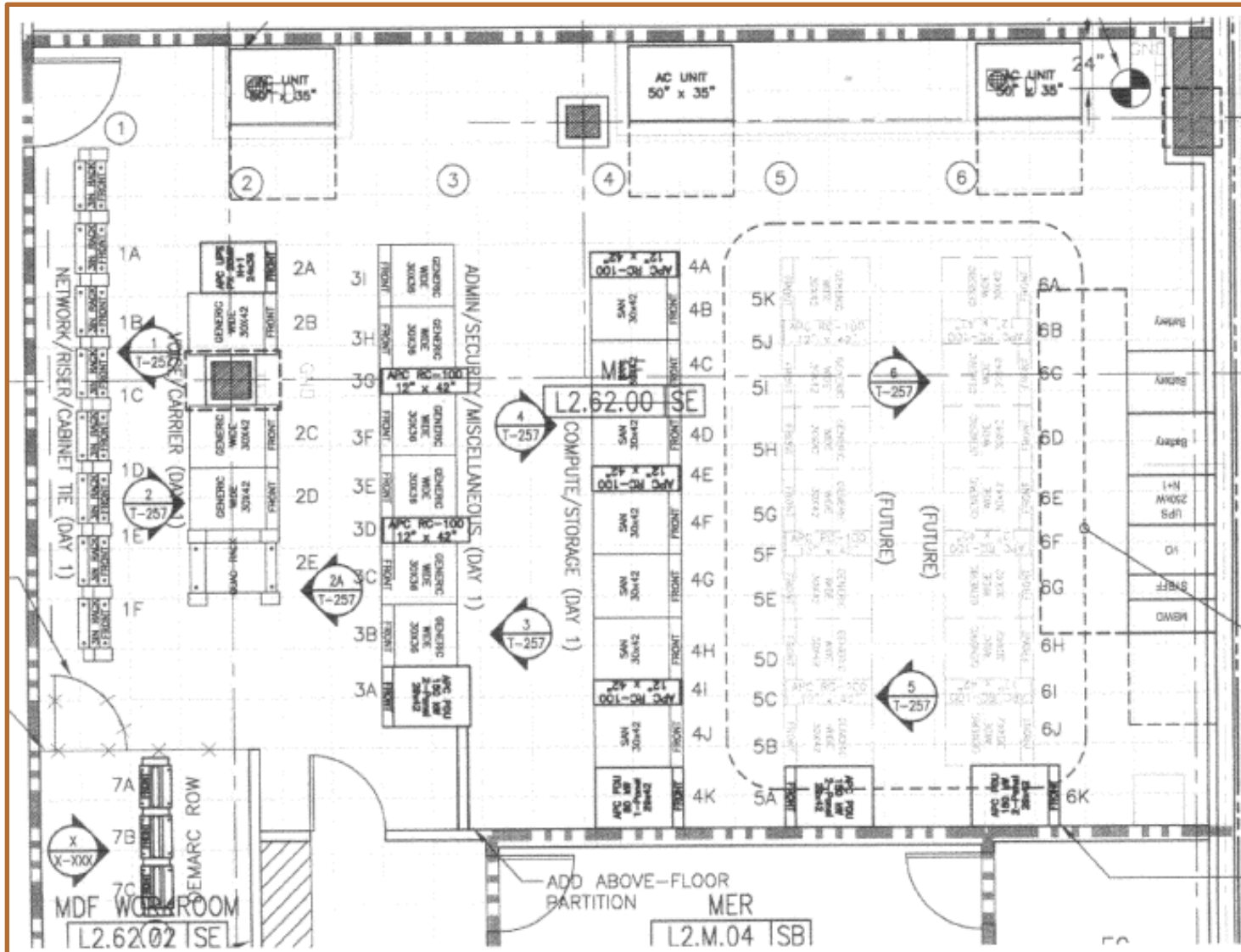
Datacenter



- The state-of-the-art Data Center will replace the current ad-hoc Server Room in North Hall
- Serves as the central point for the building core network and telecommunications
- A more **Green** design with two rows built out for Day 1 and two additional rows fitted with facilities systems (MEP) for easy future expansion
- Makes use of more efficient targeted air conditioning to cool specific equipment that generates heat
- Also equipped with local in-room air conditioning units to provide redundancy when needed



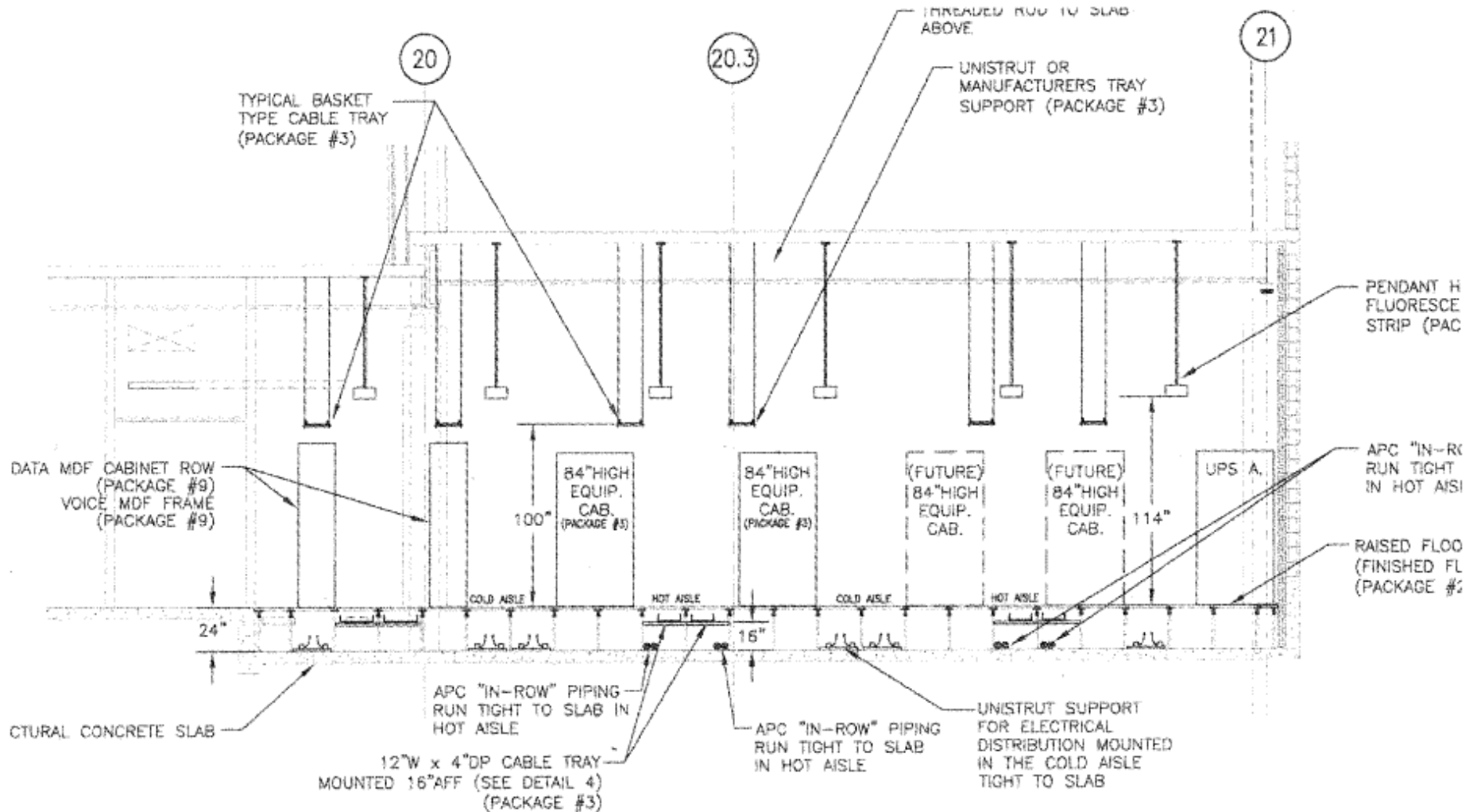
Datcenter...cont'd



Data Center



Datacenter...cont'd





Network Infrastructure

- Backbone of the network will be comprised of two 10 gigabits uplinks to support future technologies
- All desktop computers will have 1 gigabit of connectivity
- Will provide Active - Active redundancy in backbone uplinks
- Core of the network will be equipped with state-of-the-art Cisco Nexus 7000 switches





Network Infrastructure...cont'd

- Network infrastructure will be designed to support Voice Over IP (VoIP) telecommunications system
- The building will be wired with over 8000 network ports
- Will provide a redundant Internet connectivity
- Connection to existing network will be 40 gigabits





Wireless Infrastructure

- Extends the college's existing wireless network and security measures (802.1x)
- Provides 802.11 a/b/g/n technologies in all locations
- Leverages 110 of Cisco's 1142 access points
- Capable of WiFi VoIP support in the future





Telecommunications

- Occupants will have Unified Messaging (UM) from Day 1 (Voicemail into Email Inbox)
- Provisioned with a Cisco Communication System to provide Unified Communication technologies in the future
- Unified Communications features will have capabilities for Chat, On-Demand Video Chatting, Video Conferencing and Presence





Telecommunications...cont'd

- Phones will have display capability with caller ID
- Proposed phones are 7942 as a desk phone and a 7906 as a wall phone



7942



7906



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Thank You!



Questions?