

**MIDDLESEX COUNTY COLLEGE**  
**WIRE AND CABLE NETWORK REQUIREMENTS**  
**Projector, Camera and Veteran's Project**

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**1.1.0 GENERAL**

The purpose of this specification is to establish a requirement for the installation of a voice, video and data cable network. The cable (copper & fiber), wire, hardware, equipment racks, jumpers, wall plates, connectors and all other such required appurtenances shall be in accordance with this document.

The vendor shall provide a complete cable network for each work station and such that any jack can be directly connected to any other jack by means of the proper jumper cables, patch cords and electronics. All jacks, connectors and interface devices shall be industry standard types--no proprietary connecting devices shall be acceptable.

The vendor shall insure that the cable network will support all current systems, 1000Base-T, 100Base-TX, 100Base-T4, 100Base-T2, HDMIBase-T and 10 Base-T communications protocols including but not limited to 1000 BASE-T links. The installation shall be complete and fully operational. The contractor shall not exceed standard lengths or other requirements of Ethernet, 10 BASE-T, 100 BASE-T and 1000 BASE-T.

The vendor shall utilize cable, hardware and connecting devices manufactured in compliance with IEEE, EIA/TIA, UL and NEC standards and codes. Manufacturer of acceptable products is Belden, or equivalent as determined by the College. Vendor must abide by cable, hardware and connecting devices manufacturer's installation recommendations.

The vendor shall remove and replace ceiling tiles as required. All removed tiles must be put back in place at the conclusion of each workday. Vendor shall work in conjunction with other contractors or College facilities personnel who happen to be in the same building. The vendor will be responsible for, at their own expense, replacing any ceiling grid and/or tile that become damaged during the cable installation.

It is the vendor's responsibility to inspect the facility and become familiar with the site and any encumbrances to complying with these specifications for both preparation of response and after award of contract.

**1.2.0 CABLING OVERVIEW**

1.2.1 All Data cables from each station location will come back to the designated MDF location on enhanced Category 6 twisted pair cable. The enhanced Category 6 cable will terminate on a multi-port patch panel so that any station or computer can be patched anywhere in the network.

All cable shall be plenum rated.

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**1.3.0 CABLE**

All cables utilized on this project shall comply with NEC article 800 for use on voice/data systems. These cables shall be UL listed for these applications. All cable runs shall comply with the layouts indicated in the building and site drawings unless otherwise agreed upon by the College Project Manager. The cable shall be equal to Belden Media Twist.

- Solid, annealed bare 23 AWG copper conductors.
- Pairs shall be bonded together in data communications cable.
- Conductor insulation color-coded to telephone industry standards.
- Insulated conductors shall be bonded into pairs and pairs shall be twisted with varying lay lengths to minimize crosstalk.
- Cable shall support digital and analog, voice, data, and video.
- Cable shall also support 10, 100, 1000 Mbps Ethernet and HDMI Video.

**1.4.0 CABLE**

The vendor shall provide, install, and test, at each workstation designated in the drawings, cables complying with the following specifications for the worst pair.

- Plenum Rated
  - Category: 6
  - Pairs: 4, each pair individually bonded together as a whole
  - Type: 23 AWG Twisted
  - Imped: 100 ± 12 ohms from 1 to 20 MHz,  
100 ± 15 ohms from 25 to 200 MHz,  
100 ± 20 ohms from 250 to 310 MHz,  
100 ± 22 ohms from 310 to 500 MHz
  - Attenuation: 39.8 max @ 100 meters @ 350 MHz
  - Capacitance: Mutual Capacitance @ 1 KHz, nominal: 15.0 pF/ft  
Capacitance Unbalance Pair to Ground, max.: 49.2 pF/100 m
  - DC Resistance: DC Resistance @ 20°C, max.: 9 ohms/100 m  
DC Resistance Unbalance @ 20°C, maximum: 3%
  - PS-NEXT: 34.2 dB@350MHz
  - SRL: 17.0dB@350MHz  
21.0dB@100MHz
  - ACR, NEXT Attenuation, SRL have to be specified and tested to 350MHz.
  - Must be 25 dB ACR@100MHz (8 dB improvement over TIA/EIA 568-B Standard)
  - Must be 19 dB SRL@100MHz (3 dB improvement over TIA/EIA 568-B Standard)
  - Must be PS-NEXT performance ETL verified to TIA/EIA 568-B and ISO/IEC 11801
  - ACR: 25dB@100MHz  
14dB@155MHz
  - NEXT: 59.9dB@10MHz  
44.3dB@100MHz  
36.2dB@350MHz
  - ANSI/TIA/EIA-568-B.2-1 draft 10 for cat 6

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**1.4.1 Fiber Cable**

Belden Part # B9C240, B9W240 or equivalent

Optical Characteristics (Overall)

Maximum Attenuation @ 850nm: 3 dB/km

Maximum Attenuation @ 1300nm: 1.2 dB/km

Minimum Bandwidth @ 850nm: 1500 MHz\*km

Minimum Bandwidth @ 1300nm: 500 MHz\*km

Maximum Gigabit Ethernet Length @ 850nm: 1000 meters

Maximum Gigabit Ethernet Length @ 1300nm: 550 meters

**1.5.0 CROSS CONNECT PANELS (DATA AND VIDEO)**

The vendor shall provide, wire, install, test and verify all cable terminations on eight (8) wire RJ-45 type patch panels. These panels shall be rack mounted in standard EIA nineteen (19) inch racks. There will be separate cross connect panels for video and data jacks. In the event there is no room for a new panel, the vendor will convert the existing panel from a low density to high density panel.

**These patch panels shall be provided with permanently attached and uniquely identifying labeling and coding per EIA /TIA 606 to designate the station location and jack. Each of the VIDEO and DATA jacks on a wall plate, as well as the cable itself, will be coded (mechanically, not by hand) at both ends. If the termination is located above a dropped ceiling, the ceiling grid should be discreetly labeled below the termination.**

These patch panels shall be manufactured by Belden or other approved source. All connectors shall be of a standard RJ-45 type. The vendor shall provide RJ-45 patch cords equal to twice the number of utilized patch panel ports. All patch panels and patch cords shall comply with EIA/TIA TSB-40. Half the quantity of patch cords shall be 5 feet in length and half shall be 15 feet in length.

**1.5.1 CROSS CONNECT PANELS (Fiber)**

The contractor will provide, install and test a fiber interconnect cable between Building entrances and the closest IDF, and also between IDF's in each building. The fiber needs to be in a protected sheathe or inner-duct and labeled "Fiber Optic Cable". A 6 strand multimode and 6 strand

Single mode cable (Belden Part # B9C240, B9W240 or equivalent) terminated within a contractor provided patch panel enclosure (Corning CCH01 or equivalent) on both ends is required. All fibers will be terminated with LC connectors. (MM AX101981, SM AX101983 or equivalent)

Racks are located in designated MDF location. The vendor shall include the vertical wire management to dress the patch cords in a neat and uniform manner, the horizontal wire management for the patch panels.

Billy Johnson Hall (BH) IDF Room#'s 126, 220

College Center (CC) IDF Room# 130, 244B, 323

Crabiel Hall (CB) MDF Room# 115 (No Fiber Required)

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Facilities Management (FM) IDF Room# 133, 141A  
Gateway (GW) MDF Room# 125 (No Fiber Required)  
Johnson Learning Center (JLC) MDF Room# 215  
L'Hommedieu Hall (LH) IDF Room# 120A, 206B  
Library (LIB) Closet  
Main Hall (MH) IDF Room# 121B, 172  
New Brunswick (NB) MDF Room# 204 (No Fiber Required)  
Perth Amboy Center (PA) MDF Room# 216B (No Fiber Required)  
Raritan Hall (RH) IDF Room#'s 006, 119, 220  
West Hall MDF Room# 114 (No Fiber Required)

The vendor shall provide Fiber patch cords equal to twice the number of utilized patch panel ports for both single and multimode fiber. Half the quantity of patch cords shall be 1 meter in length and half shall be 5 meters in length.

The contractor will also provide the materials and labor to terminate and test 50 pairs of existing Single mode fibers using LC connectors, specified above, and provide patch panels that fit into existing enclosures in the existing infrastructure. (Superior Modular Products) The existing fiber is Hub and Spoke from Johnson Learning Center to other buildings on campus.

1.5.2 Refer to Attachment "A" for typical patch panel layout.

### **1.6.0 WALL JACKS AND PLATES**

Due to a desire on the part of Middlesex County College to install a cable system that will support them well into the future, the following requirements have been specified.

Jacks shall attain the following electrical specifications.

- Applicable Standards & Environmental Programs
  - Other Standards: FCC Part 68, Subpart F, IEC 60603-7
  - EU Directive 2002/95/EC (RoHS): Yes
  - EU RoHS Compliance Date 07/01/2006
  - MII Order #39 (China RoHS): EUP 50
  - Telecommunications Standards: Category 6 - TIA 568.B.2-1, ISO/IEC 11801:2002 Ed.2
  - Third Party Performance Verification: ETL - Verified Category 6
  - Safety Listing: ACA, Bi-national Standard Listed

All hardware must meet the minimum Enhanced Category 6 specifications and support 10, 100, 1000, Mbps Ethernet and HDMI Video.

- Jack must come color coded for both 568A and 568B pinning.
- Identical jacks must be used at both the station and closet panel locations.
- Front Connection Lead Frame Copper Allow with 50u inch Gold over Nickel
  - Rear Connection IDC Copper Allow with Nickel Plating
  - Connector Body Plastic - UL940V-0
- Footprint/Type: KeyConnect
  - Plug / Jack Compatibility: RJ45, RJ11

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Termination Interface:

Termination Connection Durabilities

Front Mated Connection 1,000 cycles

Rear Gas Tight IDC Connection 20 terminations

Connector/Hardware Retention: 20 lbs.

Plug/Connector Retention: 11.250 lbs.

Storage Temperature Range: -40°C To +70°C

Installation Temperature Range: -10°C To +60°C

Operating Temperature Range: -10°C To +60°C

- System must be certified for a minimum of twenty (20) years.
- Certification must be application independent and based only on the electrical performance of the installed system.

Face plates and surface mount boxes must conform to the following requirements.

Plates: Belden KeyConnect

- Face plates must accept the jacks outlined above.
- Face plates must be available in 2, 4, and 6 port versions for single gang arrangements. They should also be available in a 12 port version for use in double gang applications.
- Construction must be with high impact, flame retardant, UV inhibiting, UL rated 94V-0 thermoplastic.
- Angled face plates should also be available in 4 port single gang, and 8 port double gang configurations.
- Surface mount boxes must accept the jacks outlined above.
- The same box must mount on a standard NEMA wall box, on modular furniture knockouts or on any flat sturdy surface.

### **1.7.0 VIDEO JACKS**

All Video jacks shall be of the RJ-45 type.

Jacks: Belden # AX101327 or equivalent

All Video jacks co-located with "Data" jacks will be mounted on the same wall plate with "DATA" terminations in green, and "Video" terminations clearly marked in Purple.

### **1.8.0 DATA JACKS**

The vendor shall provide a wall plate with sufficient jack positions for all video and data. The Video jack will be as previously described. The data jacks will terminate in RJ-45 type devices.

Jacks: Belden # AX101325 or equivalent

These jacks shall be located as indicated in the drawings and shall fit the single or double gang electrical box.

### **1.9.0 CONNECTORS**

All connectors for use with RJ-45 terminations shall utilize gold plated contacts with a plating

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thickness of no less than thirty (30) micro-inches. Use of an RJ-11 jack in an RJ-45 receptacle shall not damage either connector.

All terminating connectors shall accept 20, 22, 23, and 24 AWG twisted pair cable, either solid or stranded.

All terminating connectors for Video lines shall be Purple in color

All terminating connectors for Data lines shall be Green in color.

### **1.10.0 STANDARDS**

- 1.10.1 All wire, cable, connectors, blocks, patch panels and wall plates used for data shall comply with Category 6 - TIA 568.B.2-1, ISO/IEC 11801:2002 Ed.2
- 1.10.2 In order to insure compliance with accepted industry standards and the interconnectivity of devices; the vendors shall submit a sample of each connecting device proposed and a length of cable with properly stamped jacket of the type to be used on this project within 10 days of award.
- 1.10.3 Fire-resistance assemblies constructed of gypsum panel assemblies used for wall, shaft, or ceiling repairs shall restore the original fire-resistive structural integrity of the assembly. Repairs shall be approved assemblies and shall meet all code requirements.

### **1.11.0 GROUNDING AND SURGE PROTECTION**

- 1.11.1 The vendor shall provide, as required, as an integral part of this installation, grounding and surge protection on all voice and data circuits out of the patch panels and connecting blocks leaving the building.

All cross-connect racks will be grounded in accordance with local codes.

### **1.12.0 CABLE SUPPORT**

- 1.12.1 The vendor shall install, J hooks for cable support. These will be installed above the drop ceiling, and supported by the hooks so as not to rest on any portion of the ceiling. J hooks shall be no greater than **four (4) feet apart** and will be large enough so as to allow the cables to easily pull through during installation. The "J" hooks shall be self supporting.

### **1.13.0 SCHEDULING**

Any drilling, hammering or process generating any disruption shall be completed between May 9, and May 15, 2017 on Saturdays and Sundays or between 10:00 PM and 7:00 AM Monday through Friday when the building is not occupied. Coordinate installation schedule with the Media Department. Work hours in this section take precedent over, and will supersede any conflicting reference to hours elsewhere in these plans and specifications. Project shall be completed no later than July 30, 2017.

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**1.14.0 DRAWINGS**

- 1.14.1 Contractor shall provide completed 'as built' drawings of all cable and wire on reproducible Mylar sheets with two (2) blue line copies for sign off and an Autocad version 14 disk shall also be provided. These drawings shall include vendors statement of full compliance with specifications and shall identify each wire pull with a number in a cable record document to correspond to the final drawings. The contractor shall provide three (3) copies of a Cable Record Book, which shall include cable numbers, terminators, cable lengths, attenuation, OTDR, TDR printouts.
- 1.14.2 Contractor shall provide approximate lengths of each cable run in the cable record document at the completion of the project prior to system acceptance.

**1.15.0 ACCEPTANCE**

- 1.15.1 Contractor shall provide 'as built,' site and drawing plans, detailed legends of symbols and abbreviations used and Cable Test records prior to the scheduling of acceptance tests.
- 1.15.2 Contractor shall demonstrate cable plant connectivity with all systems as a minimum requirement for acceptance.
- 1.15.3 Use of the network shall not constitute acceptance.
- 1.15.4 Acceptance shall be defined as the cable networks ability to function with all installed voice, data and video systems and a successful performance test of the systems on the network and patch panel system utilizing a Fluke Model 658 or 6000 or equal. These shall be witnessed by the College Project Manager. A permanent record of the display shall be provided with the closeout documents. All Category 6 cables shall be tested for all specified values. OTDR readings shall be taken for all fiber optic cables.
- 1.15.5 The acceptance test shall be performed on a random test quantity, based on the submitted cable book and its accompanying as built drawings. The test quantity shall be no less than ten (10) percent of the total wire pulls. No deviation from the test results shall be permitted. Any deviation will require an additional five (5) percent quantity to be inspected. Any further failures or deviations shall result in a failure of the acceptance test and will require a submission of new test data.
- 1.15.6 All documentation will be provided in a neat and professional manner.

**1.16.0 CONTRACTOR/VENDOR REQUIREMENTS**

The following are additional requirements of all bidders in order to be considered compliant with these specifications:

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1. Contractor/Vendor providing the cabling systems shall be Telecommunications/communications certified by Division of Property and Management and Construction of the State of New Jersey.
2. The Bidder/Contractor shall currently be an authorized and certified installer of the cable and terminating devices manufacturers. Contractors shall supply copies of current certificates.
3. Vendor to include literature for all wire, cable, connecting devices and patch panels in both bid packages.
4. Contractor shall have a demonstrated ability and experience with TDR and OTDR equipment and copper and fiber cable installations.

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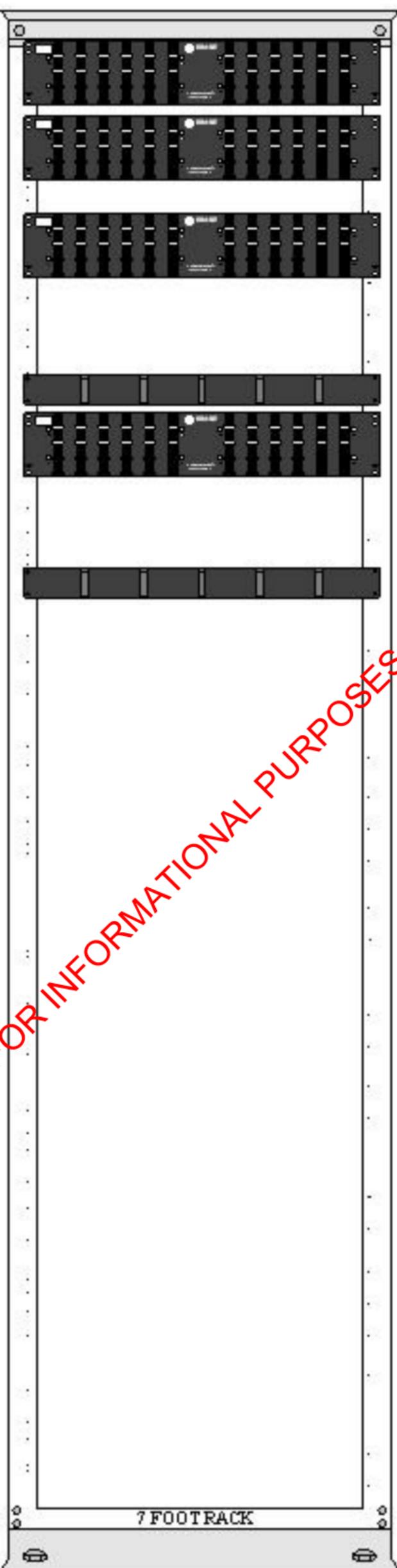








# Attachment A



Voice Trunks

Voice Stations

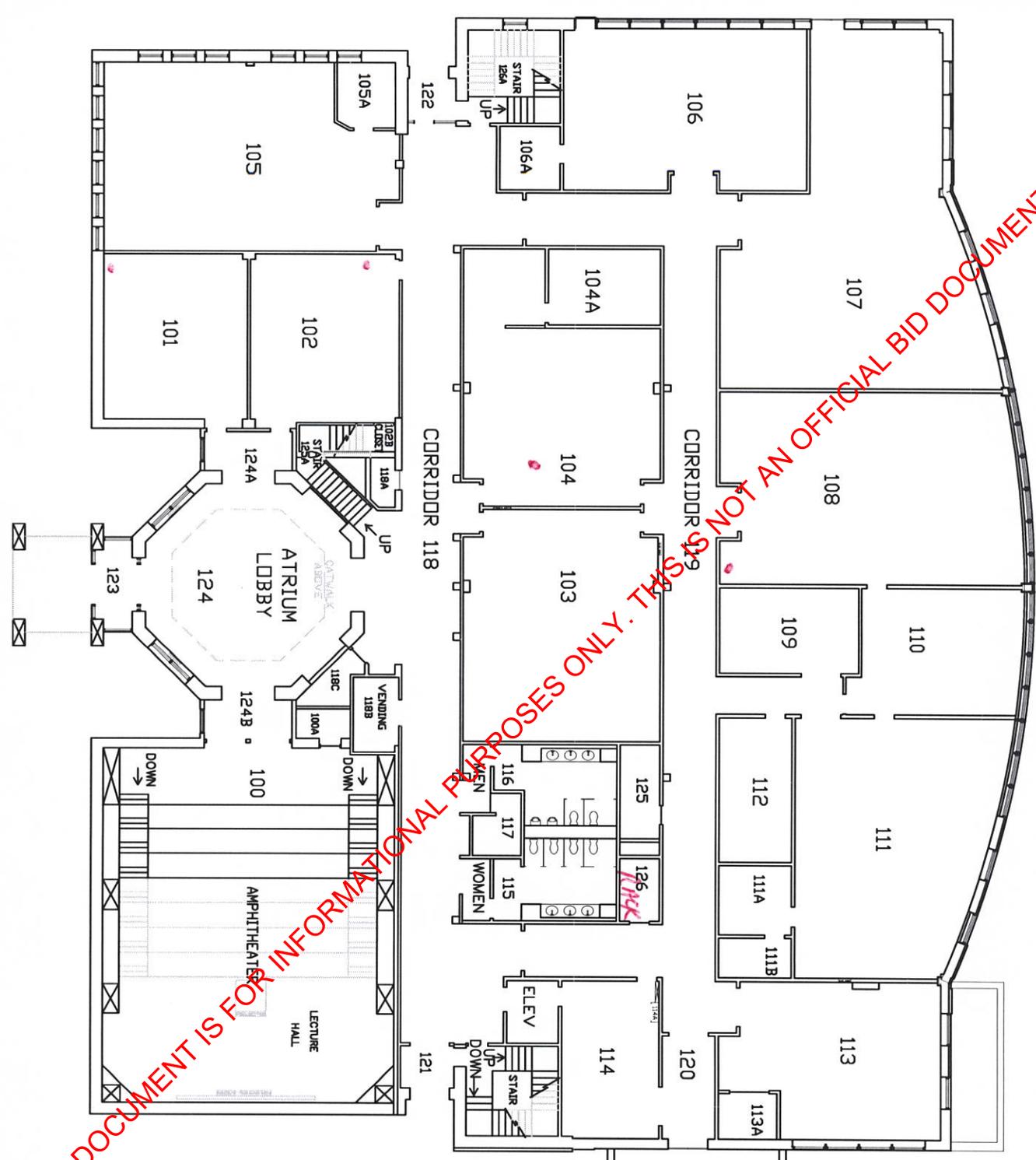
Data Stations

Wire Managers

FOR INFORMATIONAL PURPOSES ONLY. THIS IS NOT A

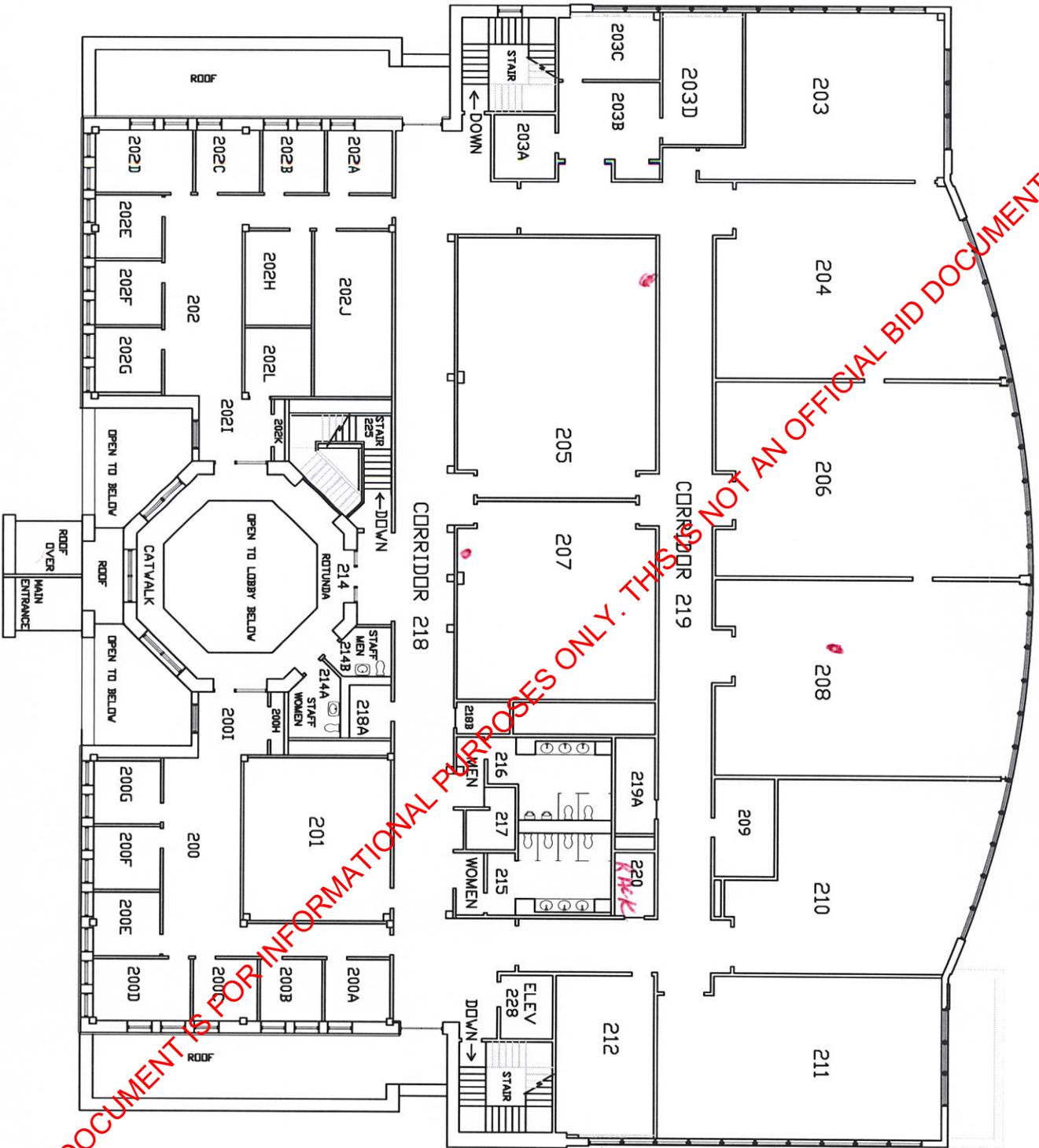


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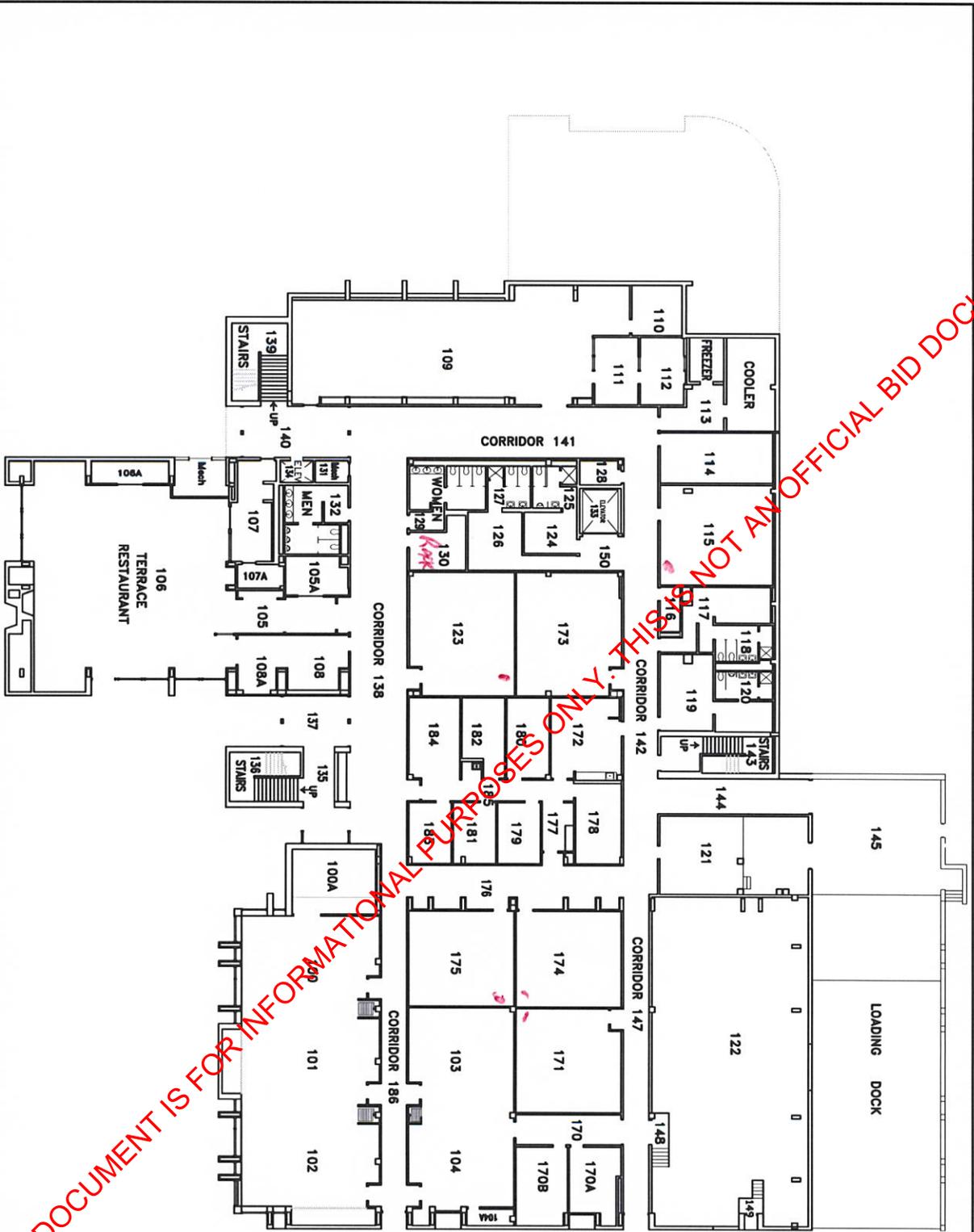
**MIDDLESEX**  
COUNTY COLLEGE  
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
3500 VANDERBILT AVE. PO BOX 3000 ESTERLY NJ 08826 782-26-3611  
PROJECT: BILLY JOHNSON HALL  
1ST FLOOR PLAN  
DATE: 7/27/09  
DRAWN BY: JAK  
CHECKED BY: RL  
SCALE: 1/8" = 1'-0"  
SHEET NUMBER: 3 OF 3

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<b>MIDDLESEX</b>	
C O U N T Y C O L L E G E	
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT	
3600 VERMONT AVE. PO BOX 3600 ENHAW, NJ 07033-7796-3600	
PROJECT:	
BILLY JOHNSON HALL	
2nd FLOOR PLAN	
DATE: 7/24/13	SHEET NUMBER
DRAWN BY: KMK	REVISIONS
CHECKED BY: RL	DATE: 7/24/13
SCALE: 1/8" = 1'-0"	NO. 3

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**COUNTY COLLEGE**

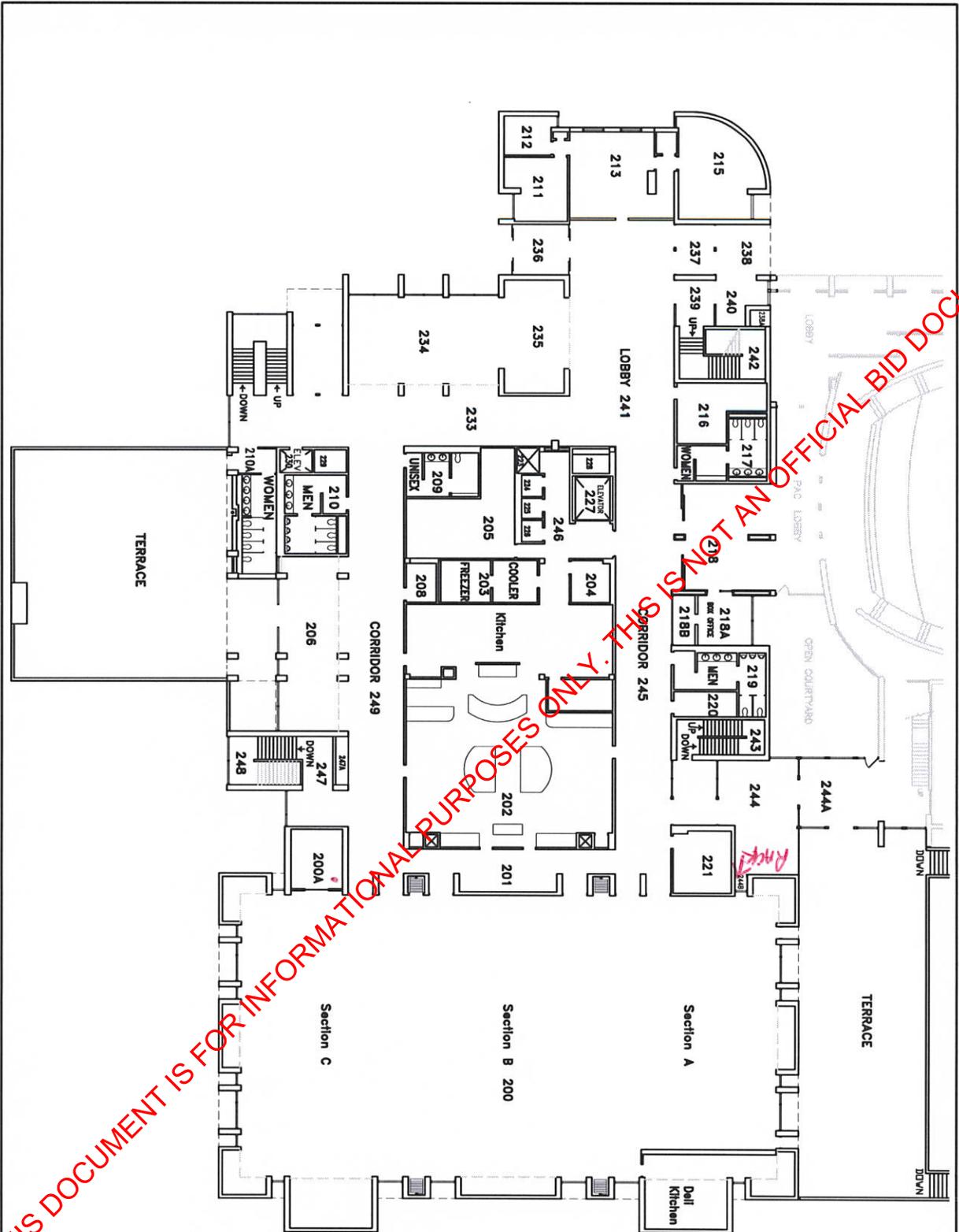
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
 2600 VOORHEISE AVE. PO BOX 2009 EDITION, NJ 08824 732-996-8411

PROJECT: COLLEGE CENTER  
 1st Floor Plan

DATE: 1/28/13	SHEET NUMBER
DRAWN BY: NVC	NO. OF SHEETS
CHECKED BY: NVC	
REVISION: NVC-15	
DATE: 02-11-13	
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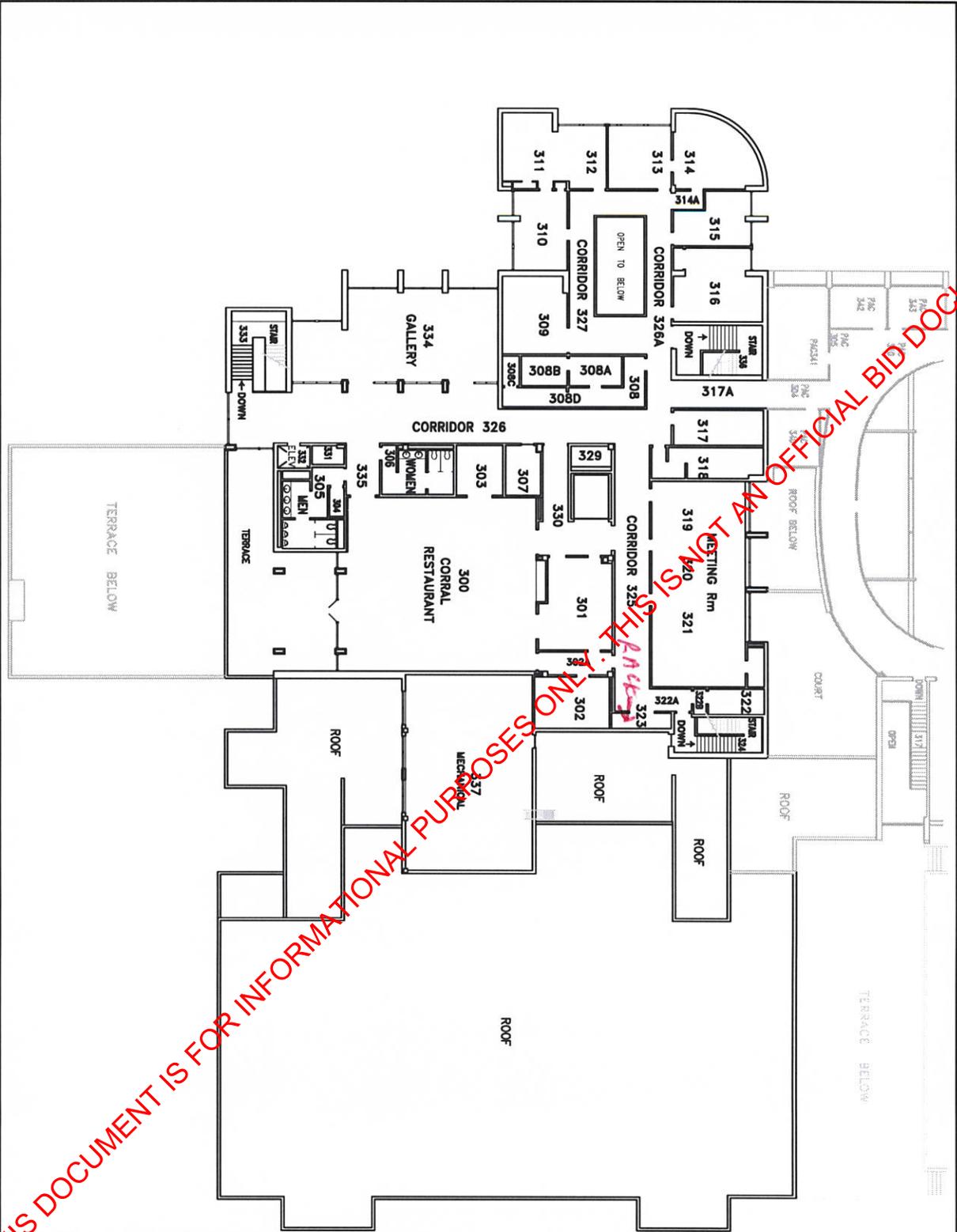
OF 3

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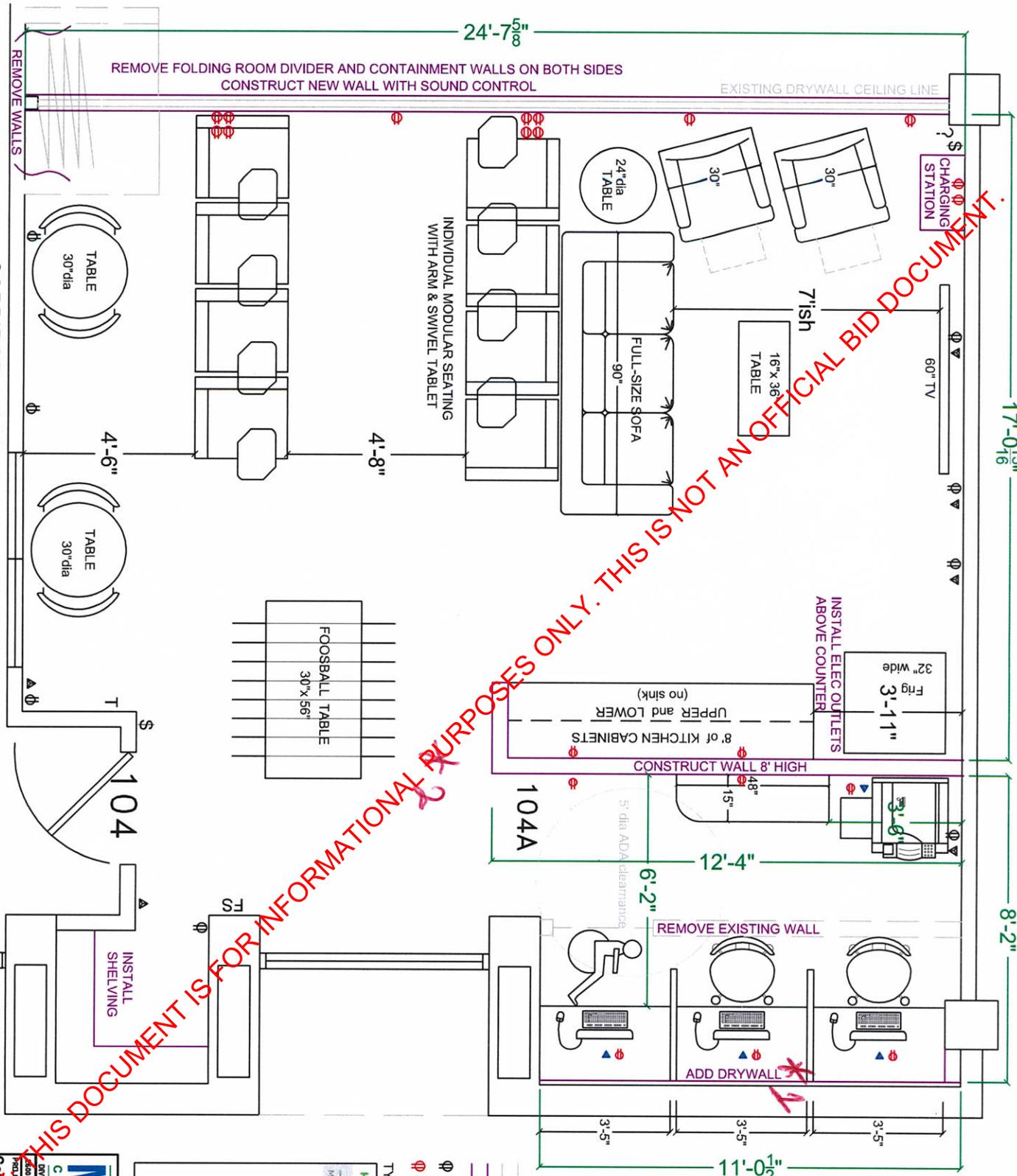
<b>MIDDLESEX</b>	
COUNTY COLLEGE	
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT	
PROJECT: COLLEGE CENTER 2nd Floor Plan	
DATE: 5/2/05	SHEET NUMBER
DRAWN BY: JAV	DESIGNED BY: JAV
REVISION: 05-16	CAD FILE: CC-2
SCALE: 1/4"=1'	OF 3

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COUNTY COLLEGE	
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT	
8600 VANDERBURG AVE. PO BOX 3000 EDISON, NJ 08820 732-966-8411	
PROJECT:	COLLEGE CENTER
SHEET NUMBER:	3
DATE:	6/02/06
DRAWN BY:	HWK
CHECKED BY:	HWK
REVISION:	N/A
DATE:	06-03-06
SCALE:	1/4" = 1'-0"

# Option 3



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- Φ ▲ EXISTING ELEC/DATA
- Φ ▼ ELEC/DATA TO BE INSTALLED
- WALL TO BE REMOVED
- NEW CONSTRUCTION

TYPICAL SEAT (but not necessarily HON)

**HON**  
Modular Armless Chair

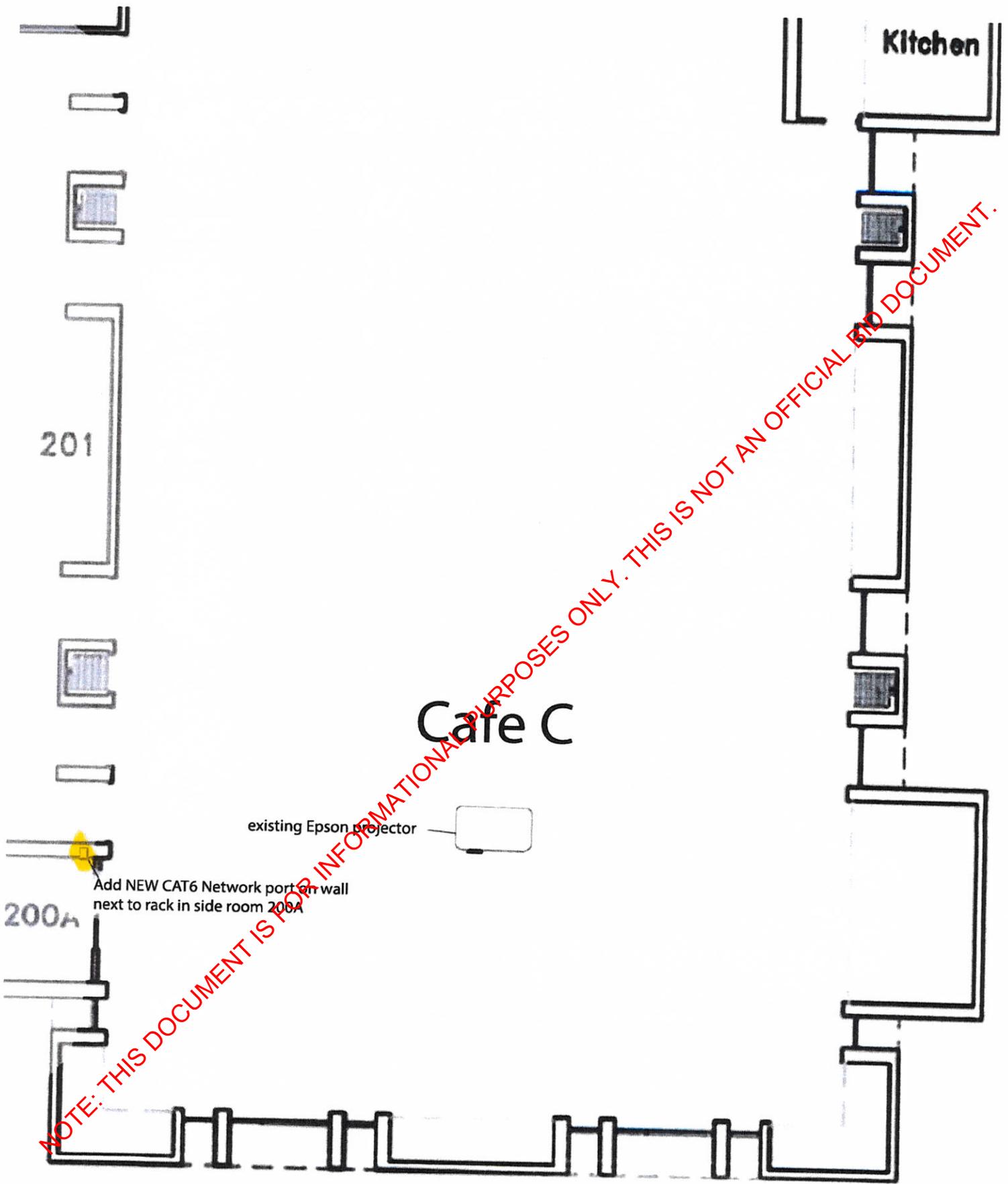


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DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
250 VANDERBILT AVE. PO BOX 3529 EISEN, NJ 08819 732-965-3411

PROJECT: College Center Rm 104  
DATE: 12/22/14  
DRAWN BY: [Name]  
CHECKED BY: [Name]  
REVISED: [Date]  
SCALE: 1/2" = 1'-0"

Veterans' Chill Zone



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Kitchen

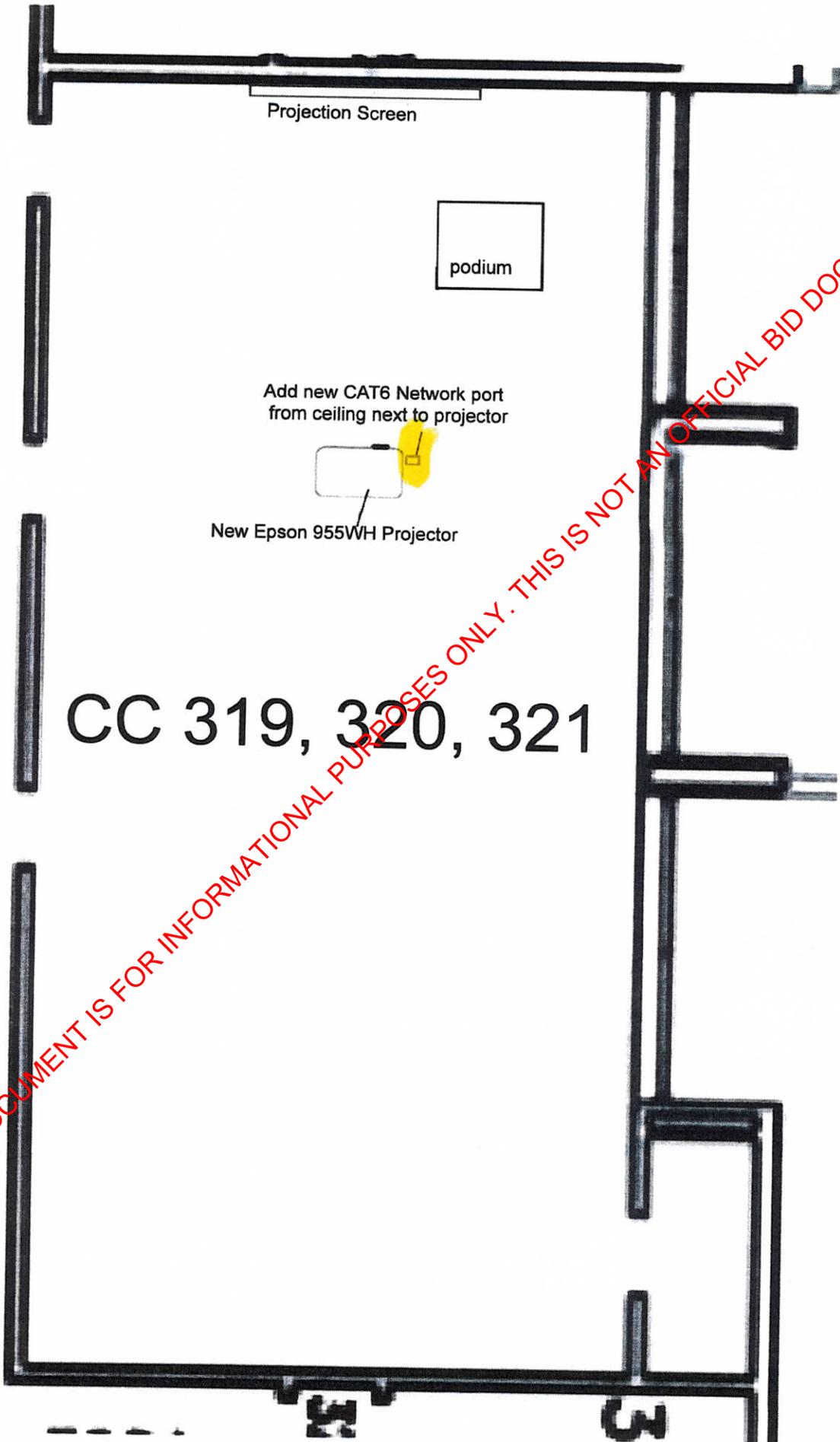
Cafe C

existing Epson projector

Add NEW CAT6 Network port on wall next to rack in side room 200A

201

200A



Projection Screen

podium

Add new CAT6 Network port  
from ceiling next to projector

New Epson 955WH Projector

CC 319, 320, 321

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300

307

303

WOMEN

entrance

Corral

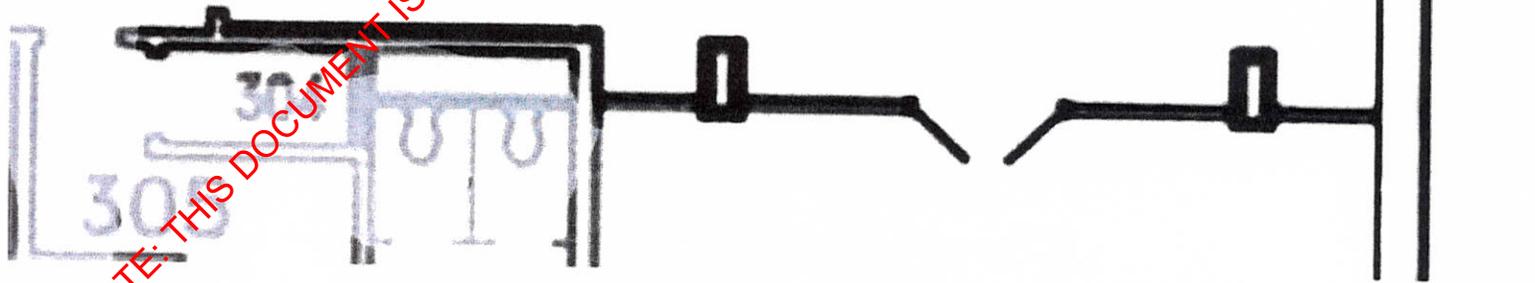
existing Epson projector

Add NEW CAT6 Network port from ceiling next to projector

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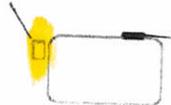
305

302



# Gallery

Add NEW CAT6 Network port from ceiling  
next to projector

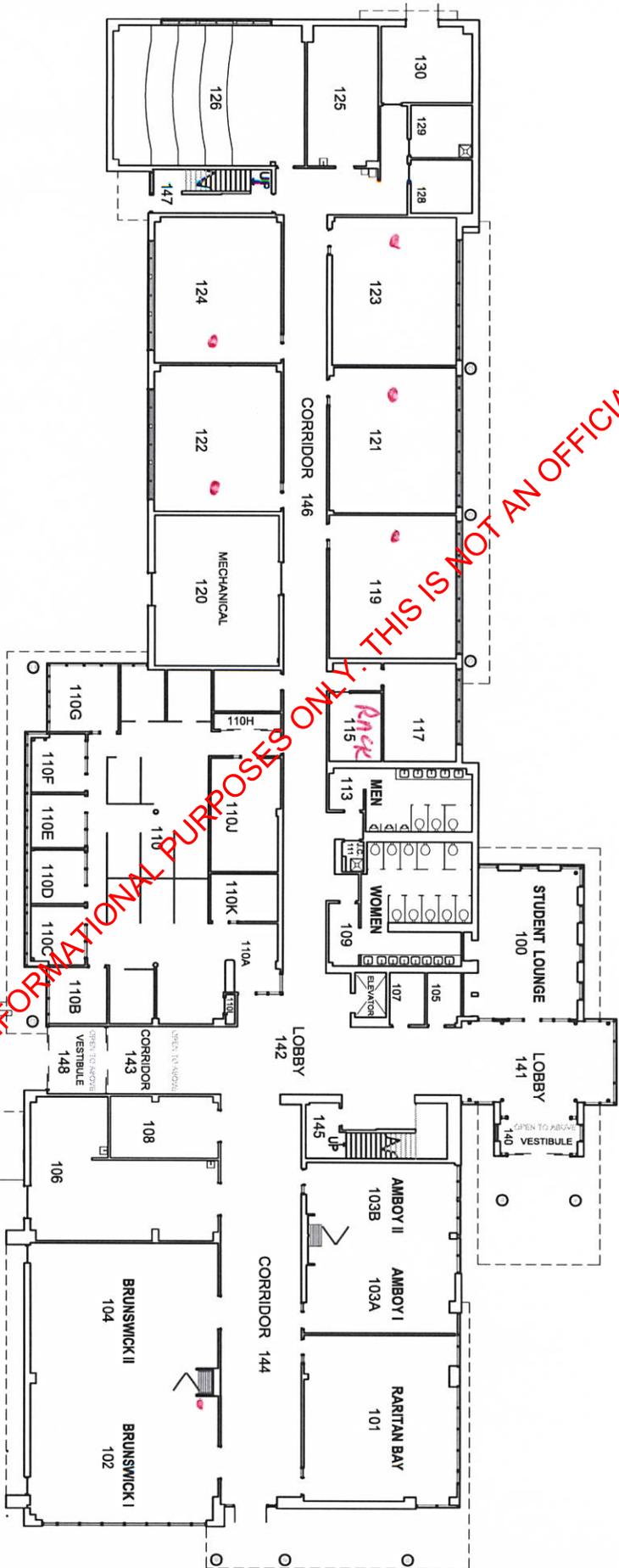


existing Epson projector

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COBBIN 300

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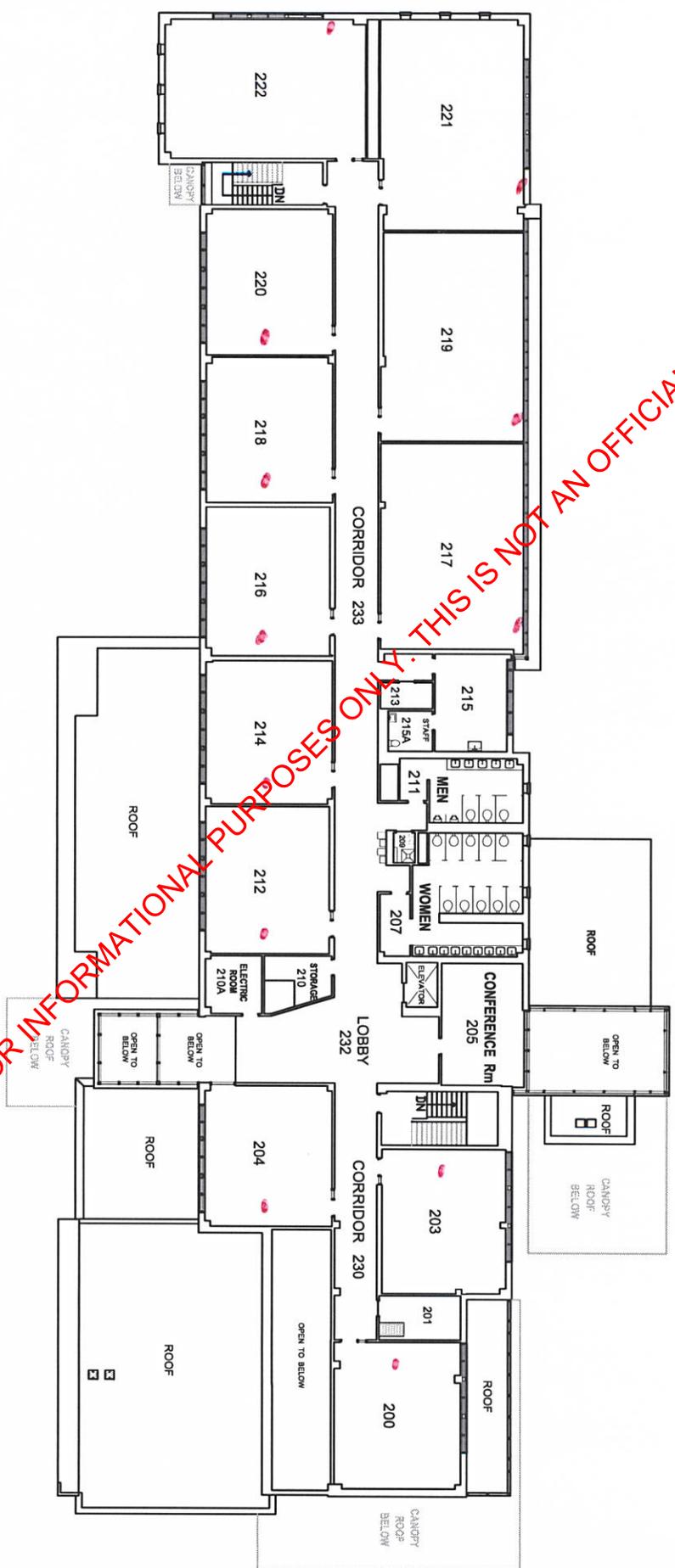
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
 5800 VANDERBILT AVE. PO BOX 3000 EDITION, NJ 08829 732-906-8411

PROJECT:  
**CRABEL HALL**  
**1st Floor Plan**

DATE: 2/19/18	SHEET
DRAWN BY: HWK	NUMBER
DESIGNED BY: RL	
REVISIONS	
DATE FILED: CRABEL	
SCALE: NTS	

OF 2

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 COUNTY COLLEGE  
 DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
 8500 YONKER AVE. 1ST FLOOR 2008 EBRON, NJ 08825 732-962-8411  
 PROJECT: CRABIEL HALL  
 DATE: 2/19/10  
 DRAWN BY: [REDACTED]  
 CHECKED BY: [REDACTED]  
 SCALE: NTS  
 SHEET NUMBER: 2  
 OF 2

2nd Floor Plan

Amboy 2

Amboy 1

existing Epson projector



Add NEW CAT6 Network port from ceiling next to projector



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Brunswick 1

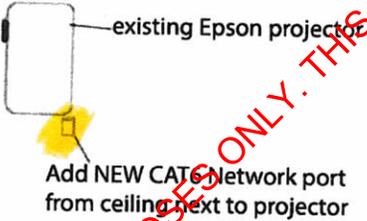
rack

Add NEW CAT6 Network port from wall to ceiling projector

Brunswick 2

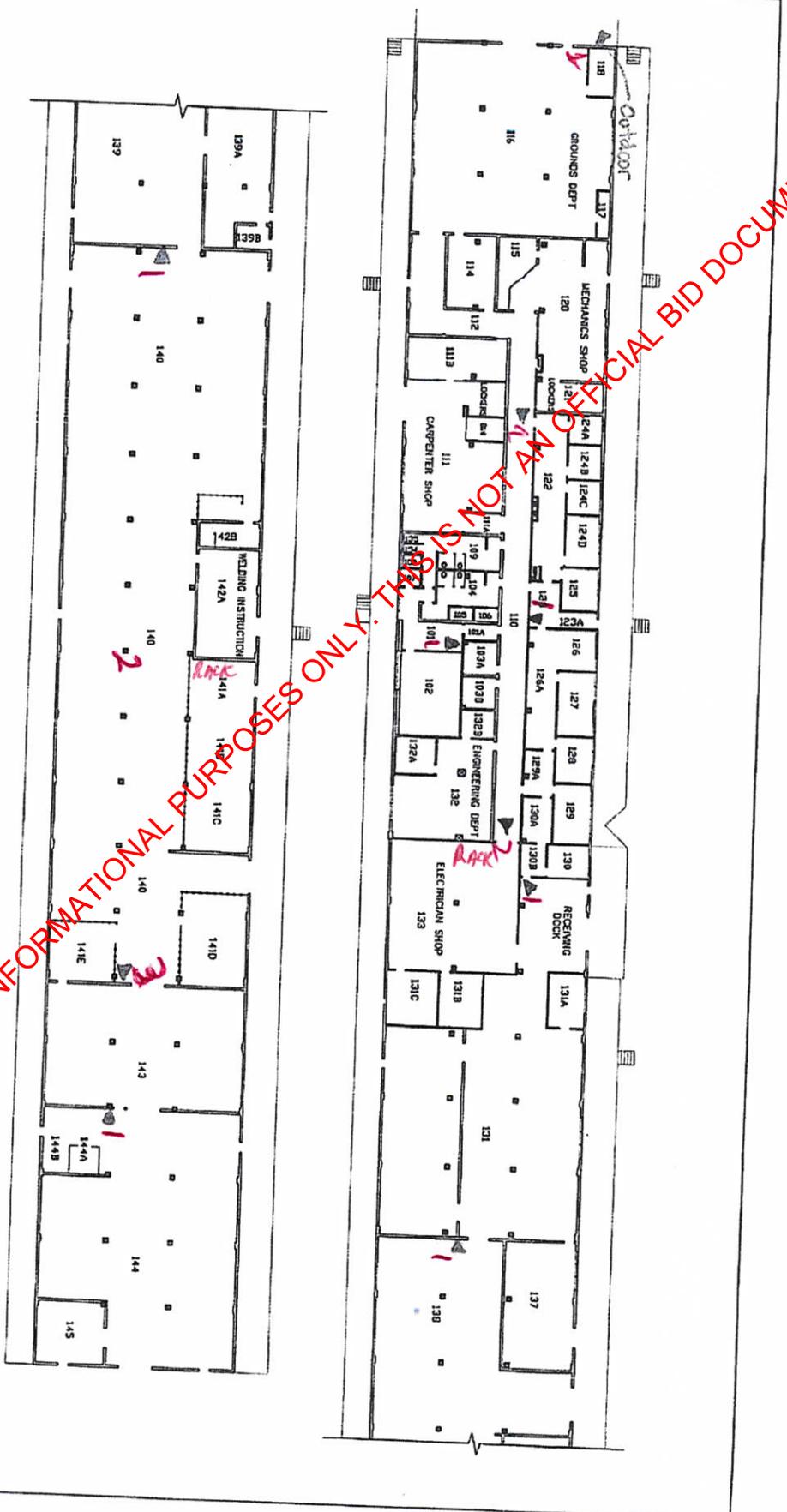
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# Raritan Bay



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- ▲ Existing Cameras (8)
- ▲ Additional Camera's (2)

D. Deast  
11/20/17

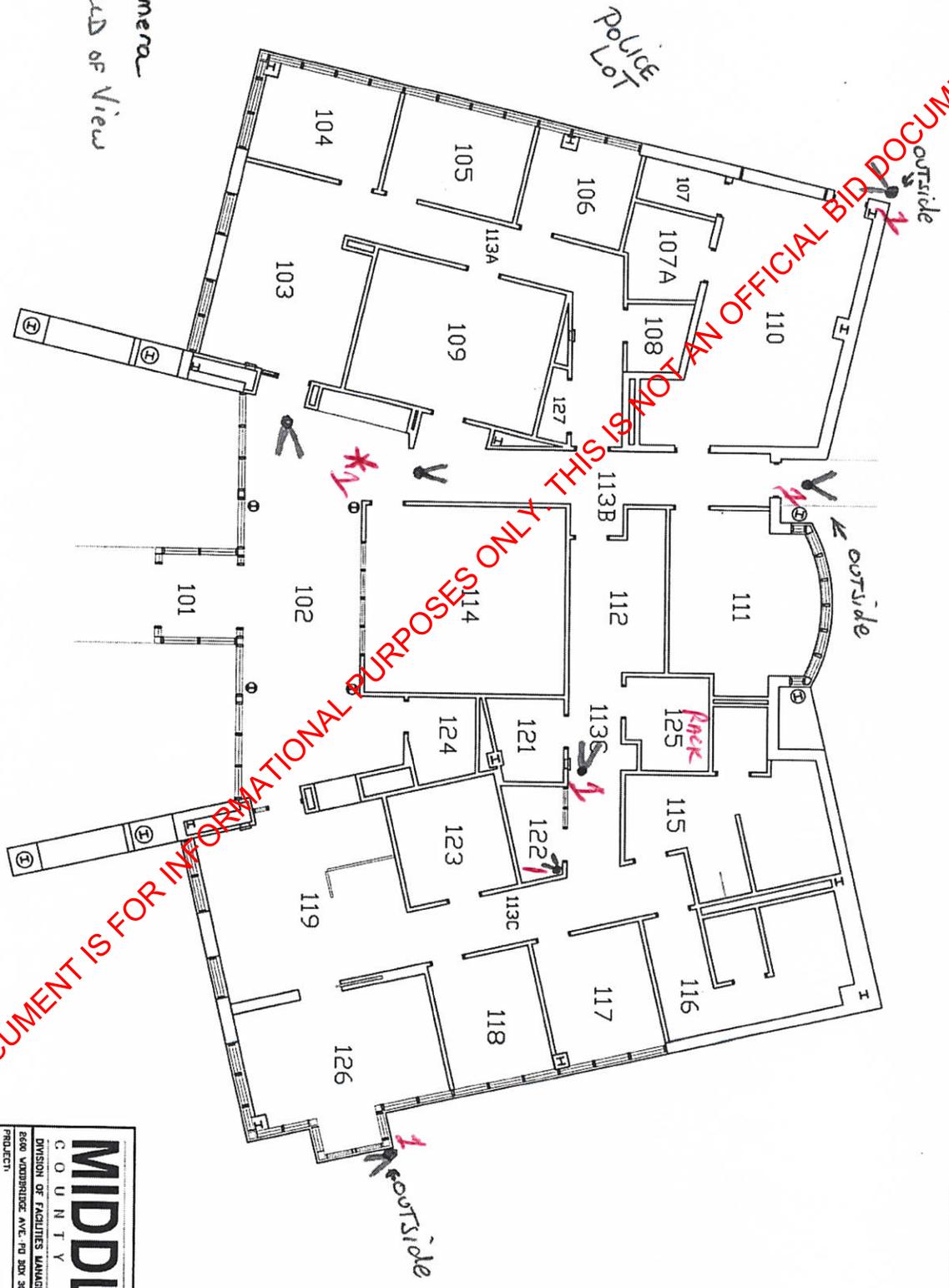
**MIDDLESEX**  
COUNTY COLLEGE  
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
2500 VANDERBILT AVE. PO BOX 3780 EMISON, NJ 08018 732-966-2411

DATE: 1/4/78	SHEET
DESIGNER: [Signature]	NUMBER
REVISOR: [Signature]	
CAD FILE: FH-1	
SCALE: E.H.S.	OF 1

FACILITIES MANAGEMENT  
WAREHOUSE  
FLOOR PLAN

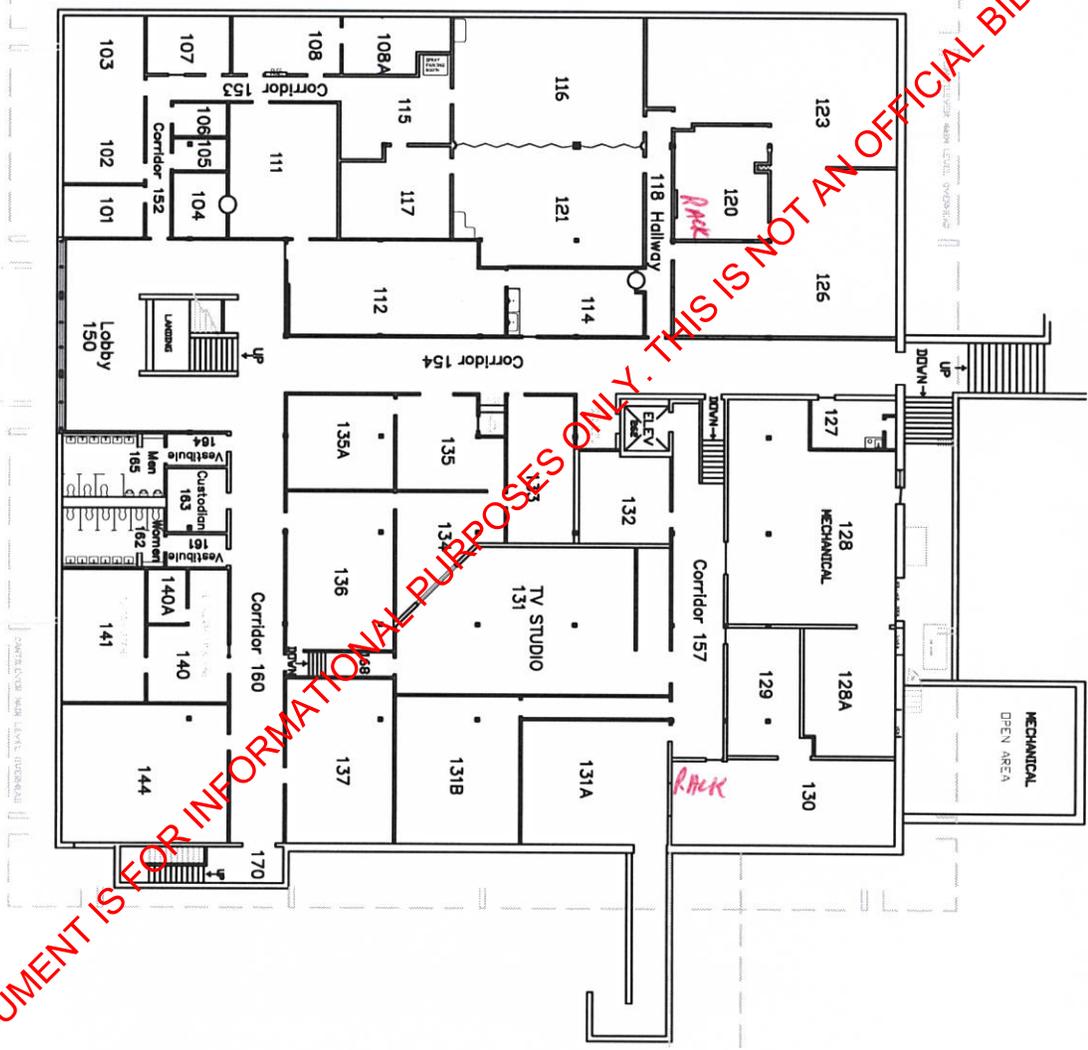
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- Camera
- < Field of View



<b>MIDDLESEX</b>	
COUNTY COLLEGE	
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT	
8500 VANDERBURG AVE., PO BOX 3950 EDISON, NJ 08818 735-966-6611	
PROJECT:	GATEWAY
DATE: 11/29/07	
DRAWN BY: ANK	
CHECKED BY: ANK	
REVISED:	
CAD FILE: 07-1	
SCALE: 1/4" = 1'	
SHEET NUMBER	OF 1

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**MIDDLESEX**  
 COUNTY COLLEGE  
 DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
 6000 VERMONT AVE. 3RD FLOOR SUITE 3000 ESSEX, NJ 08827 732-966-9444  
 PROJECT: JOHNSON LEARNING CENTER  
 CENTER  
 (LOWER LEVEL, FLOOR PLAN)  
 DATE: 8/24/20  
 DRAWN BY: [REDACTED]  
 CHECKED BY: [REDACTED]  
 SCALE: 1/8" = 1'-0"  
 OF 1

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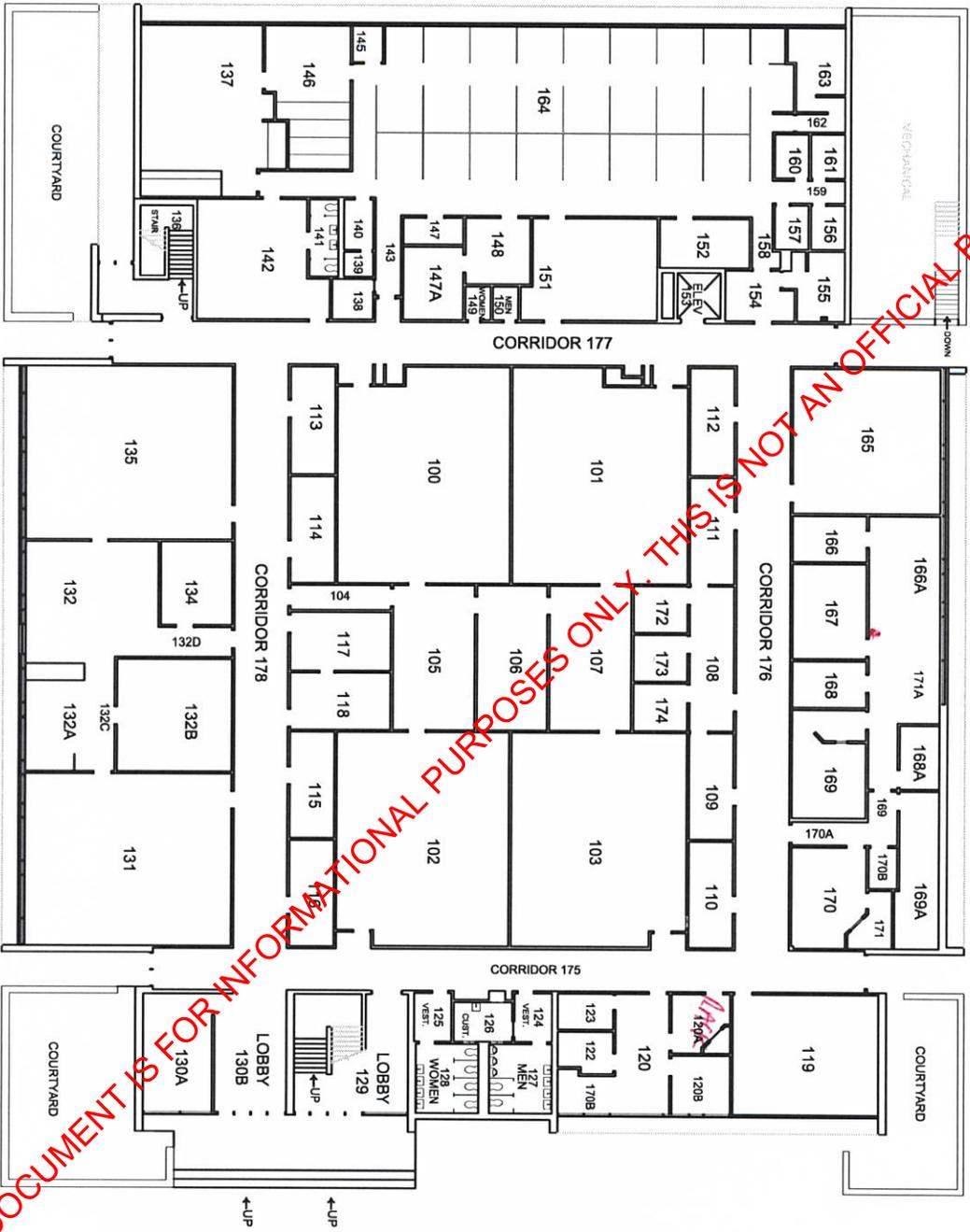
**MIDDLESEX**  
COUNTY COLLEGE  
DIVISION OF FACILITIES MANAGEMENT CONSTRUCTION DEPARTMENT  
1000 WASHINGTON AVE., PO BOX 2909, GARDEN CITY, NJ 07633-2909  
PROJECT: JOHNSON LEARNING CENTER  
(UPPER LEVEL FLOOR PLAN)  
DATE: 12/15/11  
DRAWN BY: [Name]  
CHECKED BY: [Name]  
SCALE: AS SHOWN  
OF 2

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<b>MIDDLESEX</b>	
COUNTY COLLEGE	
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT	
3600 VANDERBILT AVE. PO BOX 3009 EDITION, NJ 08829 732-796-2611	
PROJECT:	L'HOMMEDIU HALL
BASEMENT PLAN	
DATE: 12.11.2018	SHEET NUMBER
DRAWN BY: MK	NO.:
REVISION:	
DATE: 12.11.18	OF 4
SCALE: 1/8" = 1'-0"	

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MIDDLESEX

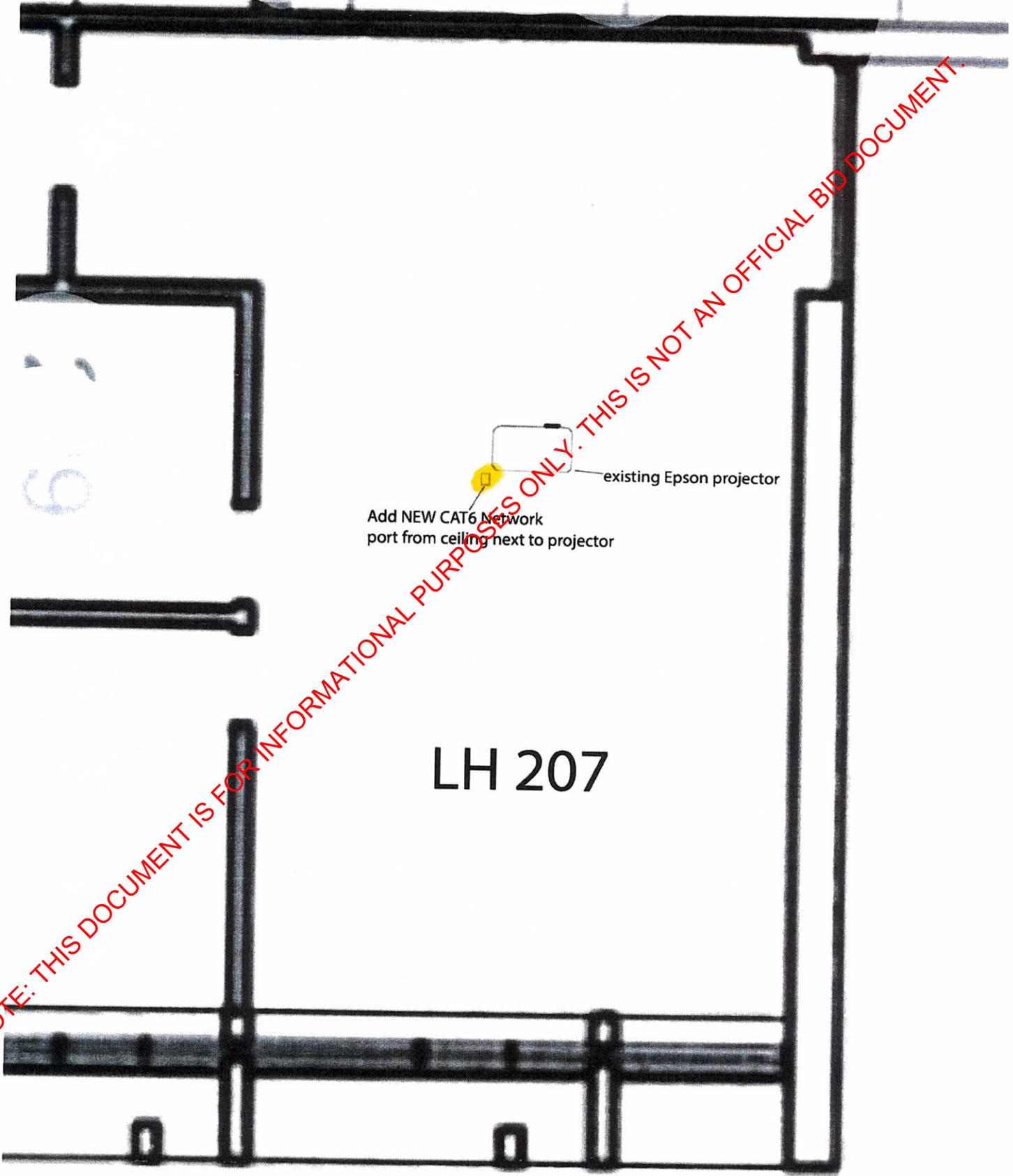
COUNTY COLLEGE

DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
 3008 VERMONT AVE. PO BOX 3000 CHESA, NJ 08818 732-996-5411

PROJECT:	SHEET:
L'HOMMEDIU HALL	1
1st FLOOR PLAN	
DATE: 3/15/15	SCALE: 1/8" = 1'-0"
DESIGNED BY: NVC	CHECKED BY: NVC
REVISED BY: NVC	DATE: 3/15/15
SCALE: 1/8" = 1'-0"	



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existing Epson projector

Add NEW CAT6 Network port from ceiling next to projector

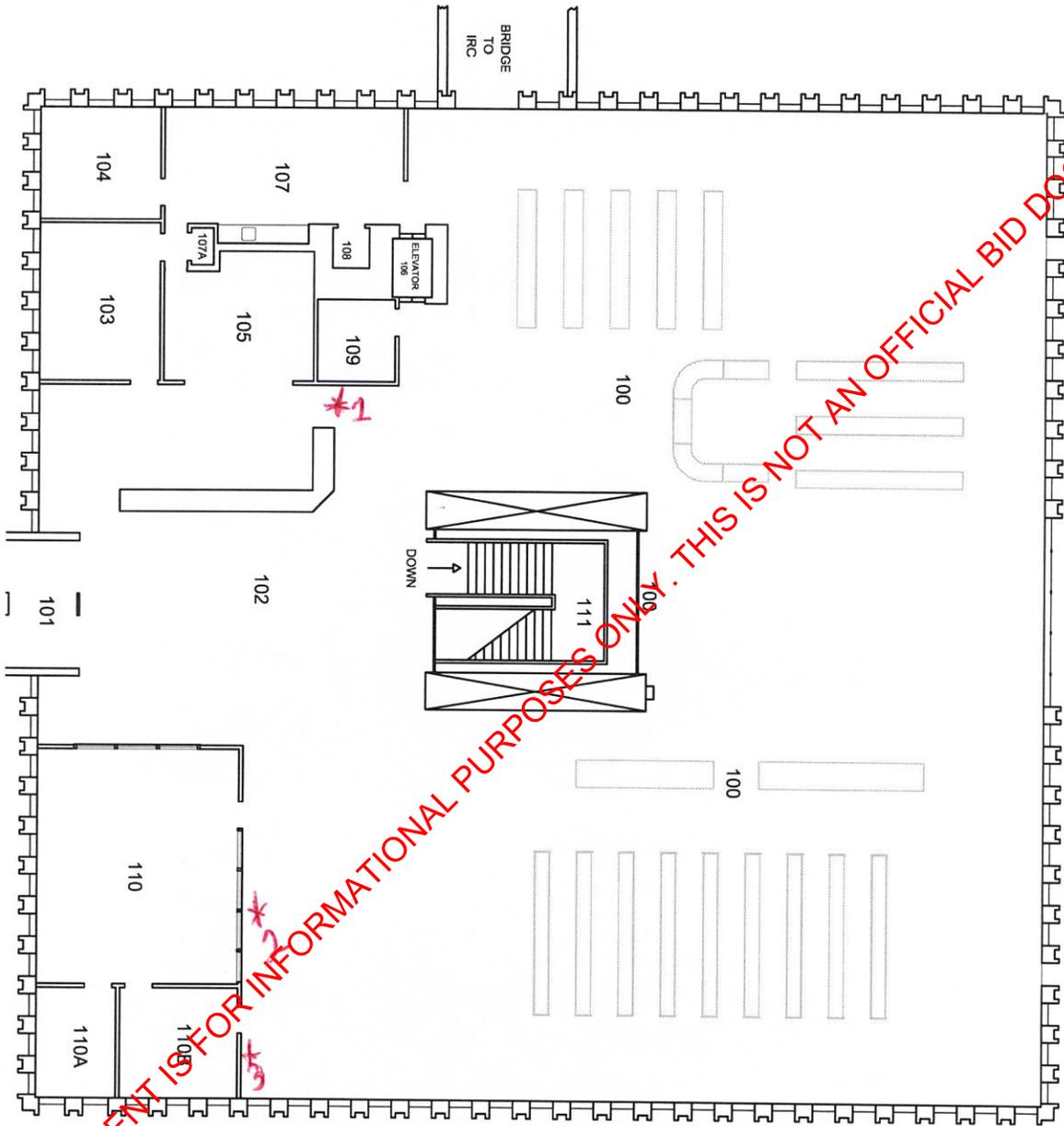
LH 207

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<b>MIDDLESEX</b>	
COUNTY COLLEGE	
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT	
PROJECT: LIBRARY LOWER LEVEL PLAN	
DATE: 11/15/11	SHEET
DESIGNED BY: [Signature]	NO. 15
CHECKED BY: [Signature]	NO. 15
DATE: 11/15/11	NO. 15
SCALE: AS SHOWN	NO. 15
DATE: 11/15/11	NO. 15

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<b>MIDDLESEX</b>	
COUNTY COLLEGE	
DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT	
PROJECT: LIBRARY	
UPPER LEVEL PLAN	
DATE: 11/17/22	SHEET
DESIGNED BY: R. K.	NO. 1
CHECKED BY: R. K.	NO. 1
SCALE: NTS	OF 2

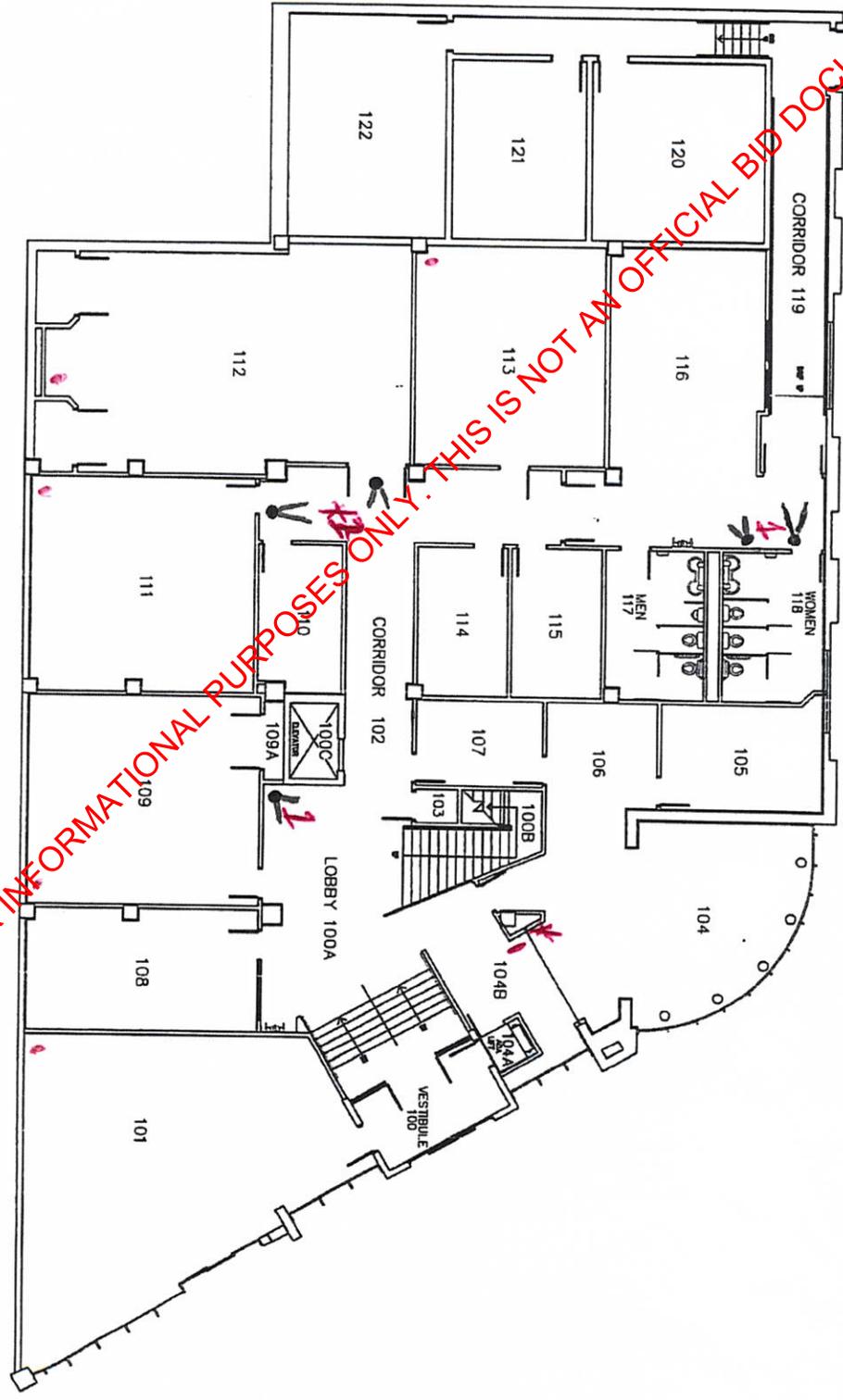
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**MIDDLESEX**  
 COUNTY COLLEGE  
 DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
 500 WINDBORNE AVE. PO BOX 3000 EASON, NJ 08824 782-96-8411  
 PROJECT: MAIN HALL FLOOR PLAN  
 DATE: 6/20/15  
 DRAWN BY: MK  
 CHECKED BY: RL  
 REVISED:  
 JOB FILED: MK-ASS  
 SCALE: 1/8" = 1'-0"  
 SHEET NUMBER: 1

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• Camera  
 < Field of View



**MIDDLESEX**  
 COUNTY COLLEGE

DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
 2800 WOODBROOK AVE. PO BOX 3000 BRUNSWICK, NJ 08918-2800-2

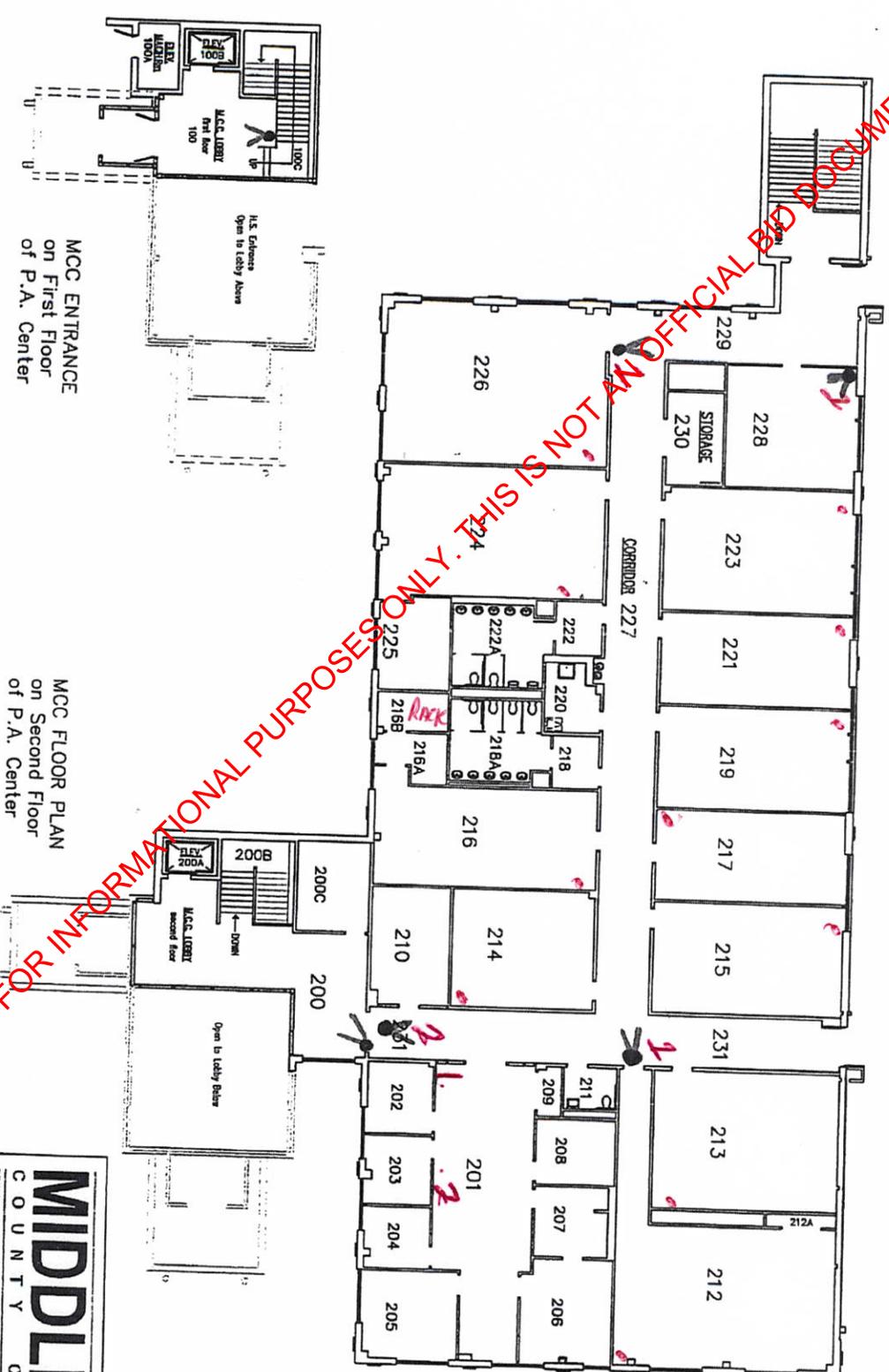
PROJECT: NEW BRUNSWICK CAREER CENTER 1ST FLOOR FLOOR PLAN

DATE: 3/2/00  
 DRAWN BY: JMK  
 REVISION: 8/18/07  
 CDD FILE: BR-C2B  
 SCALE: 1"=12'

SHEET NO. 1 OF 1



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• Camera  
 < Field of view

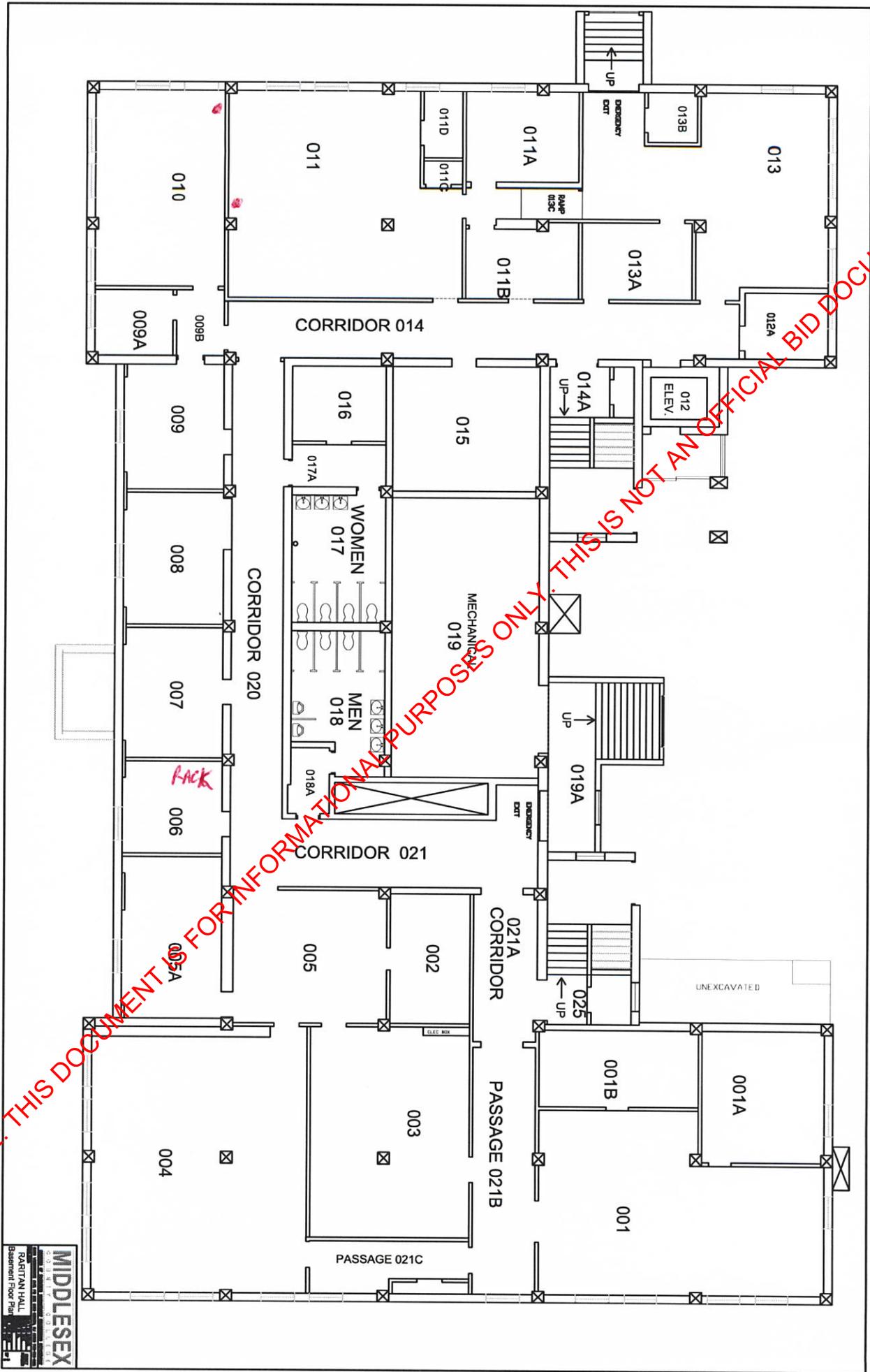
MCC ENTRANCE  
 on First Floor  
 of P.A. Center

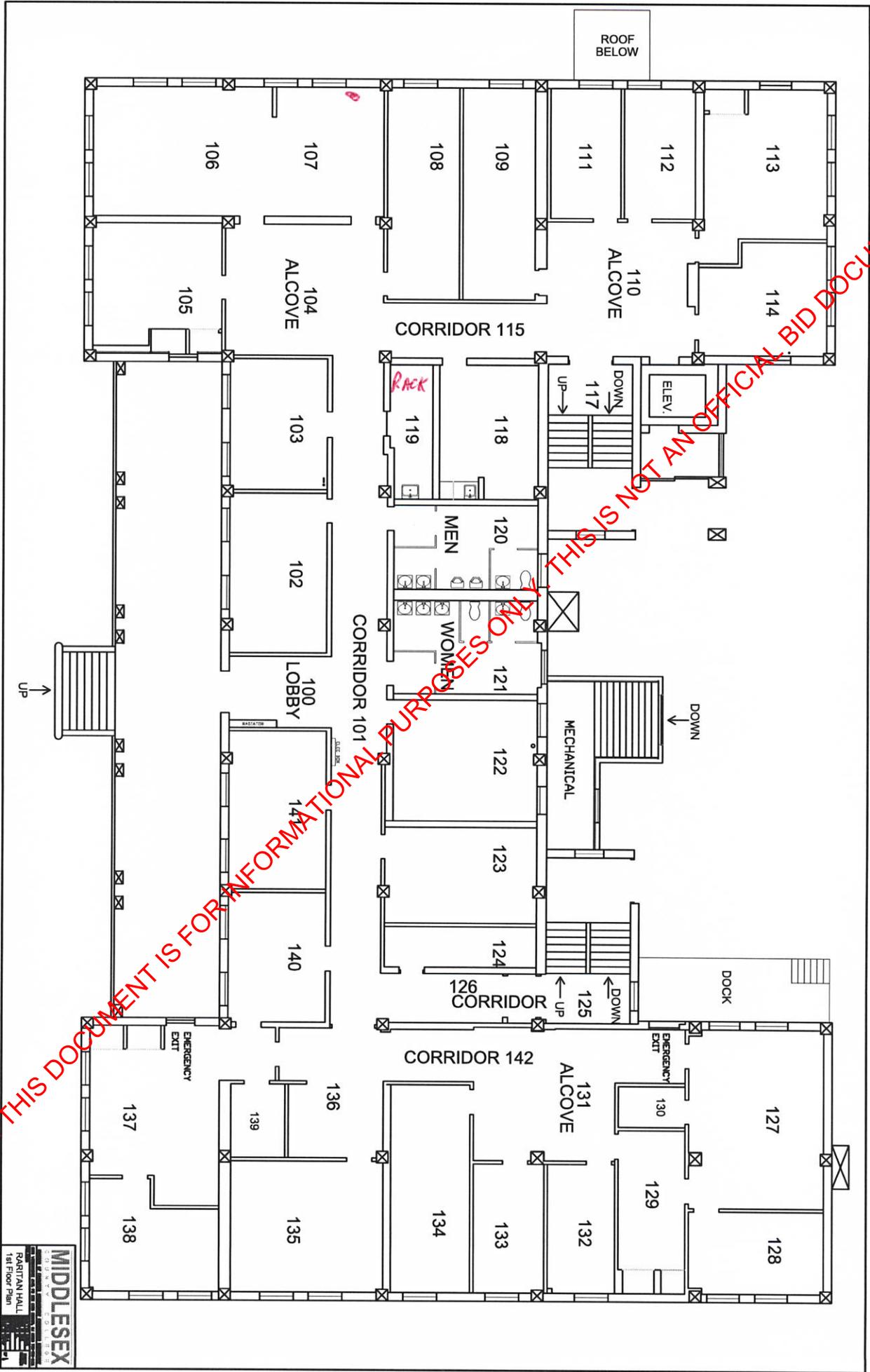
MCC FLOOR PLAN  
 on Second Floor  
 of P.A. Center

**MIDDLESEX**  
 COUNTY COLLEGE  
 DIVISION OF FACILITIES MANAGEMENT ENGINEERING DEPARTMENT  
 2600 WOODBRIDGE AVE. PO BOX 3850-EMISON, NJ 08910-738-906-81  
 PROJECT  
 PERTH AMBOY CENTER  
 FLOOR PLANS

DATE: 8/28/03	SHEET
DESIGNED BY: RAK	NUMBER
CHECKED BY: RAK	
SCALE: NTS	OF 1

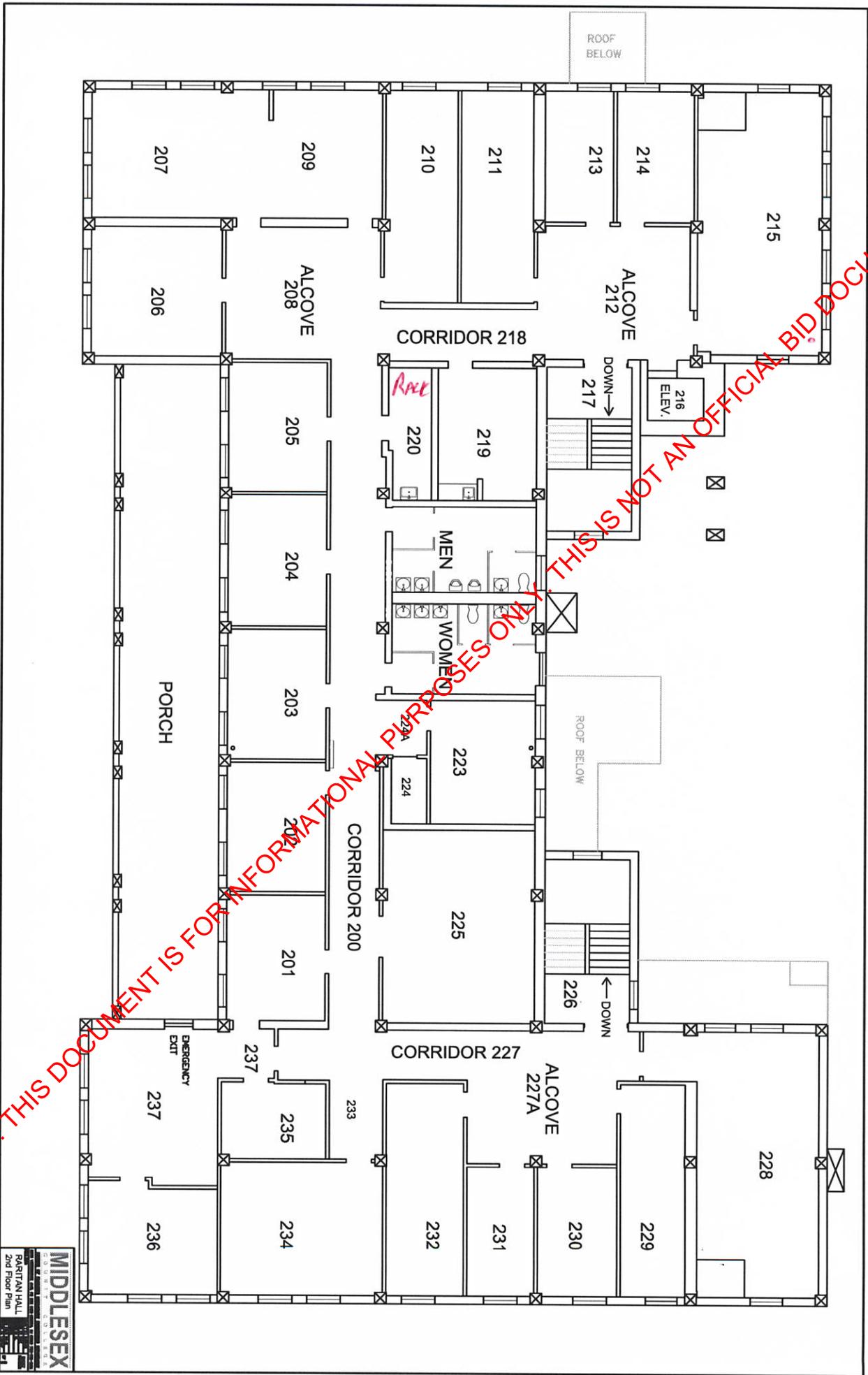
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**MIDDLESEX**  
COUNTY BOARD OF SUPERVISORS  
RARITAN HALL  
2nd Floor Plan

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**MIDDLESEX**  
COUNTY COLLEGE  
WEST HALL  
1st FLOOR PLAN

PROJECT NO.	100-000000000
DATE	08/11/2010
SCALE	AS SHOWN
DRAWN BY	...
CHECKED BY	...
APPROVED BY	...