

The School District of the City of Saginaw Request for Proposals



Objective

Saginaw Public Schools is accepting proposals to replace an existing or new placement of thermal dual lens cameras. The District is interested in the most cost effective solution that meets all requirements outlined in the following specifications.

Section I.

General Requirements

- 1.0 Saginaw Public Schools reserves the right to accept or reject any or all bids in whole or in part, and to waive any irregularities in the bidding. They also reserve the right to award any contract as deemed in the best interest of the School District.
- 1.1 All goods and services quoted must be delivered F.O.B. destination with all transportation charges prepaid and included in the bid price.
- 1.2 Saginaw Public Schools policy is to not discriminate on the basis of race, religion, color, creed, sex, national origin, age, political beliefs or disability in its educational programs, employment practices and bidding processes. The bidder, by signing this Invitation to Bid, commits that it has a similar policy and will comply with Saginaw Public Schools non-discrimination policy.
- 1.3 Bidders must provide a complete bill of materials for the project including unit pricing.
- 1.4 No taxes are to be included in any bid price. Saginaw Public Schools is exempt from Federal and State taxes.
- 1.5 The district is not responsible for any costs incurred in preparing a bid response.
- 1.6 All project costs must be included in bid pricing. Charges such as travel, meals, lodging, equipment rental and the like not included in the bid price will not be accepted.
- 1.7 The District reserves the unrestricted right to reduce the contract amount by reducing the scope of work and/or components in order to meet budget or project requirements. Unit pricing from the bill of materials will be used to make contract adjustments.
- 1.8 Proposal must be mailed or delivered to the address below and received no later than November 5th at 12:00 noon. The District will not accept late submissions.

Attn: Anitra Sweeney
SPSD Security Camera RFP
Saginaw Public Schools
550 Millard St.
Saginaw, MI 48607

- 1.9 All questions regarding this RFP must be directed to Theodore Dillingham via email at tdillingham@spsd.net. Question email messages must have a subject line of "SPSD Security Camera RFP". No phone inquiries will be accepted during the bid process.

Section II.

Project Requirements

Saginaw Public Schools has an existing IP camera network and video management. The District is seeking proposals to remove existing systems, and install new cameras, video management software.

1.0 Bid Responses must include the following:

- 1.1. Two hardcopy and one electronic proposal
- 1.2. A Proposal Overview
- 1.3. Vendor Information
 - 1.3.1. Company's Legal Name, and name of any parent company
 - 1.3.2. Number of years performing security camera
 - 1.3.3. Have there been any lawsuits or legal actions involving your company over the past 3 years.
 - 1.3.4. List key personnel who will be assigned to the project with qualifications
- 1.4. An annotated copy of RFP with acknowledgments of requirements and notes detailing any non-compliance with bid requirements
- 1.5. Product documentation for all hardware or software included in the proposal
- 1.6. Itemized Bill of materials
- 1.7. Out of scope labor rate schedule
- 1.8. Two verifiable references including contact names and phone numbers
- 1.9. Evidence of liability Insurance and coverage levels
- 1.10. A signed and notarized "familial relationship statement" disclosing any familial relationship(s) that may exist between the owner or employees of the bidder and any member of the Board of Education or its Superintendent.
- 1.11. Affidavit of Compliance-Iran Sanctions
- 1.12. Proposed contract language

2.0 Bidder Qualifications

- 2.1 Bidders must be a reputable firm regularly doing this type of work with skilled and fully trained technicians capable of performing the installation in accordance with standard industry practices.
- 2.2 Bidders must either be the manufacturer of the proposed equipment or a factory authorized distributor/contractor.
- 2.3 Bidders may not use subcontracted labor as the primary project engineer or as the primary onsite installation technician.
- 2.4 Bidders may be requested to provide documentation that they have the experience and financial ability to perform any contract awarded
- 2.5 Contractor and subcontractor staff may be required to pass criminal background checks

3.0 General Project Requirements

- 3.1 Contractors may store materials on site at their own risk. No materials will be accepted by the owner until physically installed.
- 3.2 Contractors are responsible for acquiring any permits required for their work.
- 3.3 All work must be in compliance with applicable laws, regulations, fire and building codes.
- 3.4 Work sites must be kept clean and free of debris. The contractor is responsible for disposing of all removed equipment, packing materials, and general debris each day.
- 3.5 Project timelines and invoicing schedules will be mutually agreed to as part of the final scope of work and material orders.
- 3.6 All materials must be new and the latest model available. No materials may be refurbished, used, or have an announced end-of-life or end-of-sale date.
- 3.7 The contractor will be responsible for all building damage related to their work. E.g. ceiling tiles, floors, facade

- 3.8 Bidders are asked to provide fixed pricing for 36 months
- 3.9 New camera placements are marked on the attached building maps. Camera counts for each will vary by building due to entrance access.
- 3.10 The contractor will provide a scope of work document and corresponding bill of materials based on bid pricing for each project phase.
- 4.0 Bid submissions will be reviewed based on the following criteria
 - 4.1 Compliance with specifications
 - 4.2 Purchase price and total cost of ownership
 - 4.3 Quality of technical solution
 - 4.4 Systems features
 - 4.5 Vendor and product references
- 5.0 Saginaw Technical Environment
 - 5.1 The owner operates (3) servers with dual E5-2680 processors, 256G memory running VMWare 6.7 with iSCSI based VMFS storage
 - 5.2 All buildings are connected to the district data center using 1Gbps full duplex single mode fiber.
 - 5.3 Building wiring closets are interconnected with fiber at 1Gbps. Switch stacks are interconnected with high speed stacking cables.
 - 5.4 The owner will provide IEEE 802.3af powered switch ports for cameras. If the proposed solution requires IEEE 802.3at power this must be provided in the bid via multi-port mid-spans.
 - 5.5 District structured cabling is certified CAT5e.

Section III.

Video Management System

1.0 Acceptable Video Management OEMs are Avigilon, Exacq, or Milestone, or Vendor NVR

2.0 Video Management System Requirements

2.1 General

- 2.1.1 Solutions that maximize the ability of the owner to independently operate and support the VMS system will be preferred.
- 2.1.2 Video management servers must be implemented as VM guest machines in the owners existing VMWare environment.
- 2.1.3 List all virtual server instances required under the proposed solution, including CPU, memory, and storage requirements.
- 2.1.4 Proposals must include a new iSCSI storage unit sized and configured to meet video storage requirements for the complete project. iSCSI video storage will be directly mounted to VMS guest servers. VM system partitions will be provided by the owner.
- 2.1.5 VMS software must be the latest version available at the time of owner acceptance of the project.

2.2 System Features

- 2.2.1 The VMS must present camera positions on building floor plans and by groups allowing access to live or recorded video for the selected camera.
- 2.2.2 The VMS must support event driven SMTP messaging. Event types must include loss of camera image, motion in fenced areas of an image, system warnings and failures
- 2.2.3 The VMS must use NTP for time
- 2.2.4 The VMS must provide full camera viewing functionality via web browsers (Edge, IE, Chrome, Firefox) on existing district Windows 7/10 computers over TLS communications.
- 2.2.5 If browser plugins are required to view system video streams or manage the system, these must be listed
- 2.2.6 VMS management may use a Windows based client, although web based is preferred.
- 2.2.7 Systems must include iOS/Android mobile clients or use an adaptive web design to allow authenticated remote access to the VMS system.
- 2.2.8 Event driven video capture with pre and post event recording must be supported
- 2.2.9 The system must simultaneously support (1) viewer per building and (3) global access viewers without degradation of video capture, management, or viewing service.
- 2.2.10 The proposed solution must store a minimum of 30 days of video for all new cameras listed in appendix A.
- 2.2.11 The system must support continuous, scheduled, and event/motion based recording. Cameras must be configured to capture relevant video using recording methods appropriate for each camera location.
- 2.2.12 Specific video capture settings will be determined in consultation with the contractor but will not be less than 10fps with a 3 second pre and post event recording with motion masking and privacy screening as needed.
- 2.2.13 Camera video streams must use H.264.
- 2.2.14 Event based, time coordinated multi-camera playback of stored video must be supported
- 2.2.15 Display of pre-defined camera groups must be supported.

- 2.2.16 All camera audio capture must be disabled on cameras and in VMS software.
- 2.2.17 The VMS must support Network Video Interface Forum (ONVIF) standards
- 2.2.18 Video must be exportable in industry standard formats
- 2.2.19 Video must be exportable with timestamps and watermarks acceptable as evidence in legal proceedings either in standard formats or bundled with a distributable reader.
- 2.2.20 Systems must support LDAP for user authentication
- 2.2.21 Systems must allow printing still images from stored or live video
- 2.3 Services
 - 2.3.1 The proposed system must be a fully functional turnkey implementation including all materials and services required to install and perfect video management services and camera installations.
 - 2.3.2 Vendors must rack and configure the proposed video iSCSI storage. The owner will be responsible for any network or VMWare configuration work needed to present the storage to virtual VMS systems.
- 2.4 Warranty and Support
 - 2.4.1 VMS software and installation work must be warranted free from defects in material and workmanship for 12 months from owner acceptance of project completion.
 - 2.4.2 12 months OEM software telephone support is required
 - 2.4.3 Software patches and upgrades must be provided for 12 months
- 2.5 Training
 - 2.5.1 (3) onsite training classes must be provided for building level camera system viewers covering basic system access and operation
 - 2.5.2 (1) onsite training class must be provided for security and IT staff covering system administration and advanced system operation
 - 2.5.3 Describe any available online print and video training materials for system administrators and build level users
- 2.6 Documentation and Labeling
 - 2.6.1 As-built documentation must include camera names, ID numbers, building, location description, MAC, DHCP assigned IP reservation, Camera make, model, and serial. If this information exists in the VMS management console, separate printed documentation is not necessary.

Section IV.

Camera Requirements

1.0 Acceptable Camera OEMs InfoSignal (TI-Rex 800/1100) or similar

2.0 Camera Requirements

The owner would like to standardize on as few camera models as possible. For the purposes of the bid, pricing should be based two indoor camera model. Quotes for additional or alternative camera models are encouraged. These must be listed as alternate options outside of base bid pricing. Camera models not listed within bid pricing as primary or alternate options will not be considered.

2.1 Indoor entry camera cameras

- 2.1.1 must use a vandal resistant design
- 2.1.2 All default passwords must be changed at installation
- 2.1.3 Internal cameras must produce clear images not blurred by the conditions and rates of movement typically found inside school buildings
- 2.1.4 Cameras must support a depth of field, light management, and other characteristics related to image clarity important to achieve the owners goal of maximizing the ability to recognize faces in live and stored video.
- 2.1.5 Must provide high quality wide dynamic range capabilities
- 2.1.6 MUST Contain 2 Lenses: 1 thermal and 1 visible-light
- 2.1.7 Must use H.264 communications
- 2.1.8 Must use progressive scan
- 2.1.9 Min resolution 2MP (Approx. 1920x1080)
- 2.1.10 Must be capable of a sustained 30 frames per second at full resolution
- 2.1.11 Varifocal
- 2.1.12 Autofocus
- 2.1.13 Auto-Iris
- 2.1.14 IR-Cut filter for day/night use
- 2.1.15 Min 15 meter IR illumination
- 2.1.16 Support ONVIF
- 2.1.17 Cameras must be at their most current firmware levels when accepted by the owner.

3.0 Services

- 3.1 The contractor must mount, aim, and focus the cameras in cooperation with the Director of Facilities and Director of Technical Services for Saginaw Schools.
- 3.2 Camera installation must be performed outside of student instructional hours.
- 3.3 Existing Ethernet cabling should be reused when present. If Ethernet cabling is not present, the contractor is required to install a new CAT5e drop terminated on an owner provided patch panel using a contractor supplied device side RJ45 biscuit and patch cable.
- 3.4 Cabling must be in conduit or raceway suitable for the installation location. Cabling may not be exposed.
- 3.5 Since an exact drop count will not be known until the final scope of work is determined and camera placements are finalized, a fix rate per drop is requested as an optional bill of materials item.
- 3.6 Other materials that may be required such as raceway or mounting brackets must be listed as optional bill of materials components.
- 3.7 Cameras must be fully configured in the VMS by the contractor. Specific video capture settings will be selected with owner approval.

4.0 Warranty and Support

- 4.1 Cameras must carry a 1 year warranty from the date of final project acceptance

4.2 Cameras that fail within the first year must be serviced and replaced as needed by the contractor at no additional expense to the owner.

5.0 Documentation

5.1 Camera names, IP addresses, buildings, location description, and MAC address must be documented. If this information is readily accessible from the video management console, that is sufficient.

Section VI.
Quote

Required Attachments

- Vendor information
- Proposal Overview
- Annotated copy of full RFQ with acknowledgments of requirements and notes for any deviation from or qualifications of bid specifications
- Product documentation
- Itemized Bill of materials
- Out of scope labor rate schedule
- Customer References
- Liability Coverage
- Familial Disclosure Statement
- Affidavit of Compliance-Iran Sanctions
- Proposed contract language

Total Project Bid \$ _____

Company _____

Name _____

Authorized Signature _____

Telephone _____

Date _____

Building	Thermal Cameras	Installation
Saginaw High	\$	\$
Arthur Hill	\$	\$
Saginaw Career Complex	\$	\$
Saginaw Arts and Sciences Academy	\$	\$
Thompson	\$	\$
Zilwaukee	\$	\$
Arthur Eddy	\$	\$
Handley	\$	\$
Herig	\$	\$
Kempton	\$	\$
Loomis	\$	\$
Merrill Park	\$	\$
Chester Miller	\$	\$
Jessie Rouse	\$	\$
Stone	\$	\$
Doerr	\$	\$
Maintenance/Transportation	\$	\$
Administration	\$	\$
Service Center II	\$	\$

Sworn and Notarized Familial Disclosure Statement

Iran Business Relationship Affidavit

Effective April 1, 2013 all bids, proposals and/or qualification statements received in the State of Michigan must comply with the "Iran Economic Sanctions Act". The Following certification is to be signed and included at time of submittal:

Pursuant to the Michigan Iran Economic Sanctions Act, 2012 P.A. 517, by submitting a bid, proposal or response, respondent certifies, under civil penalty for false certification, that it is fully eligible to do so under law and that it is not an "Iran linked business," as that term is defined in the Act.

Signature

Title

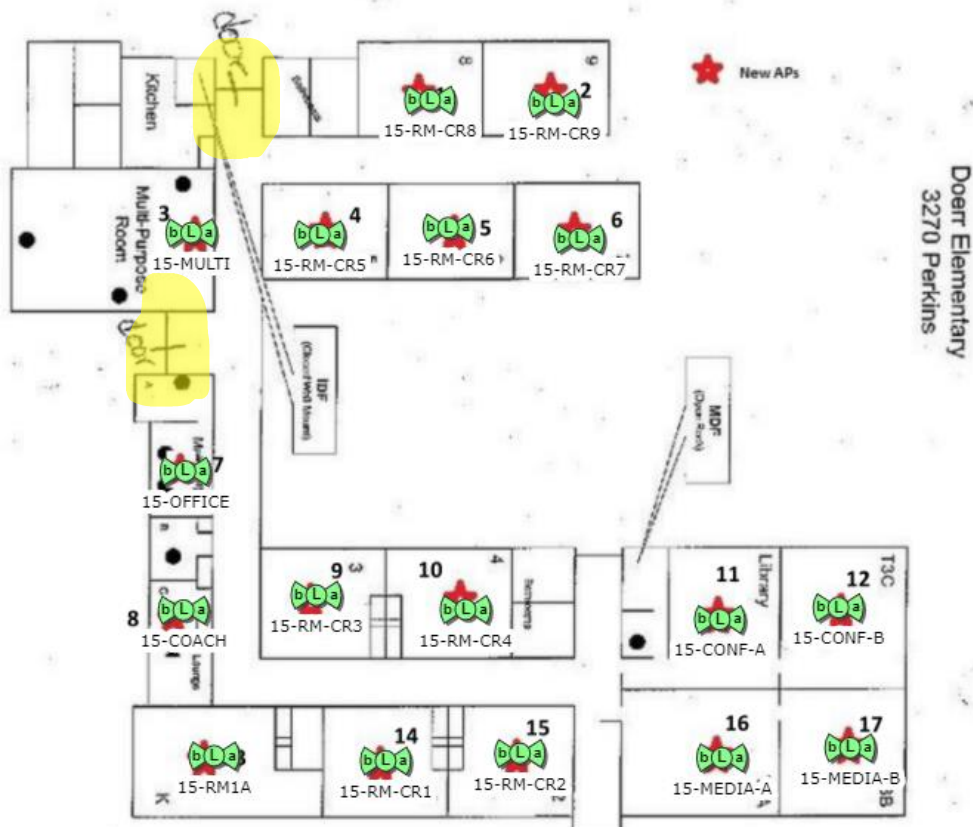
Company

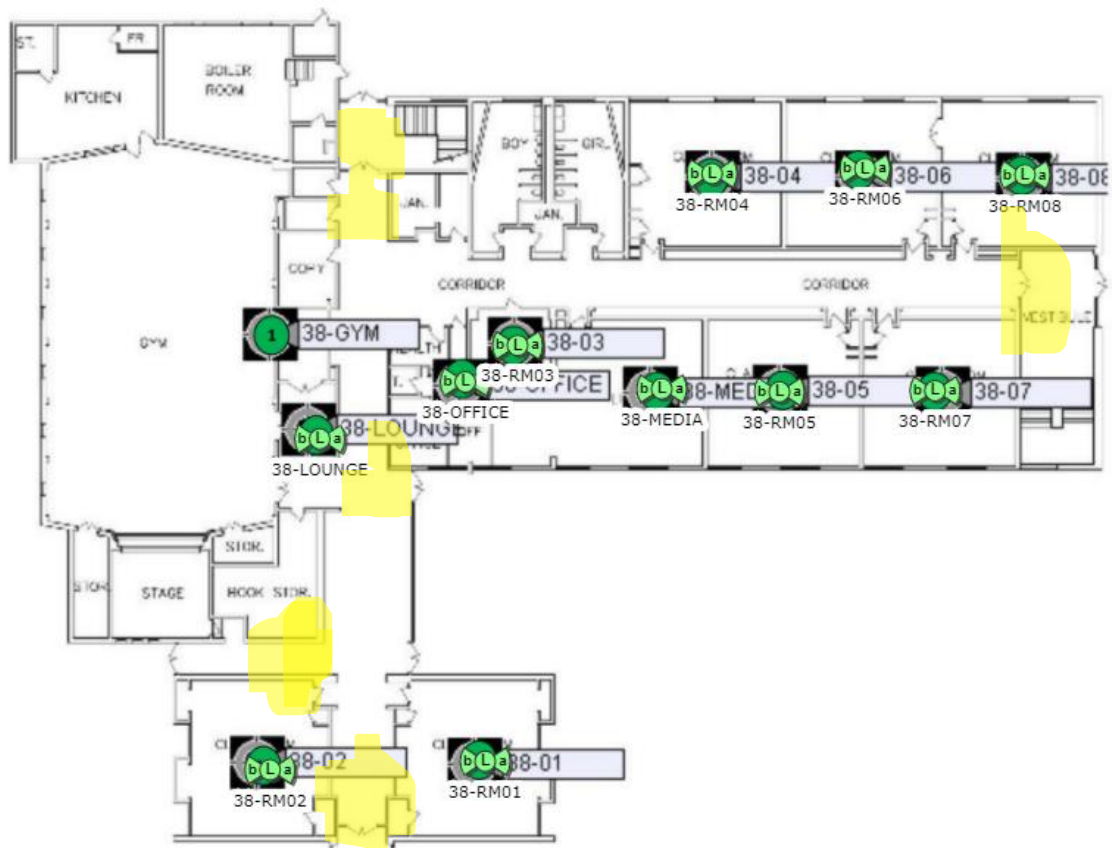
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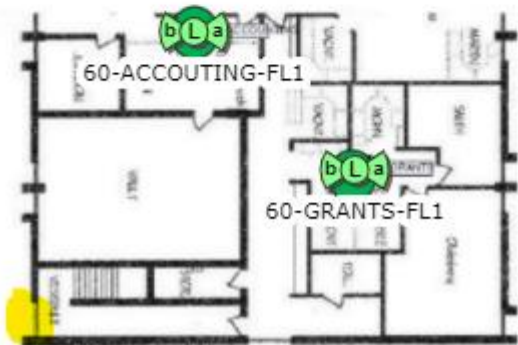
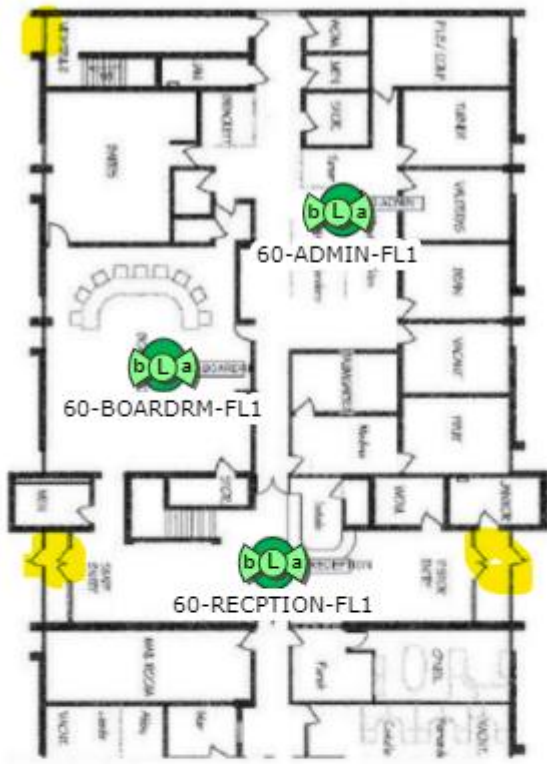
Appendix A

Building	New Internal Thermal Cameras
Saginaw High	9
Arthur Hill	6
SCC	14
SASA	6
Thompson	2
Zilwaukee	7
Arthur Eddy	5
Handley	5
Herig	3
Kempton	6
Loomis	3
Merril Park	3
Miller	6
Rouse	5
Stone	6
Doerr	5
Admin	4
Maint/Trans	2
Service Ctr II	1
	282

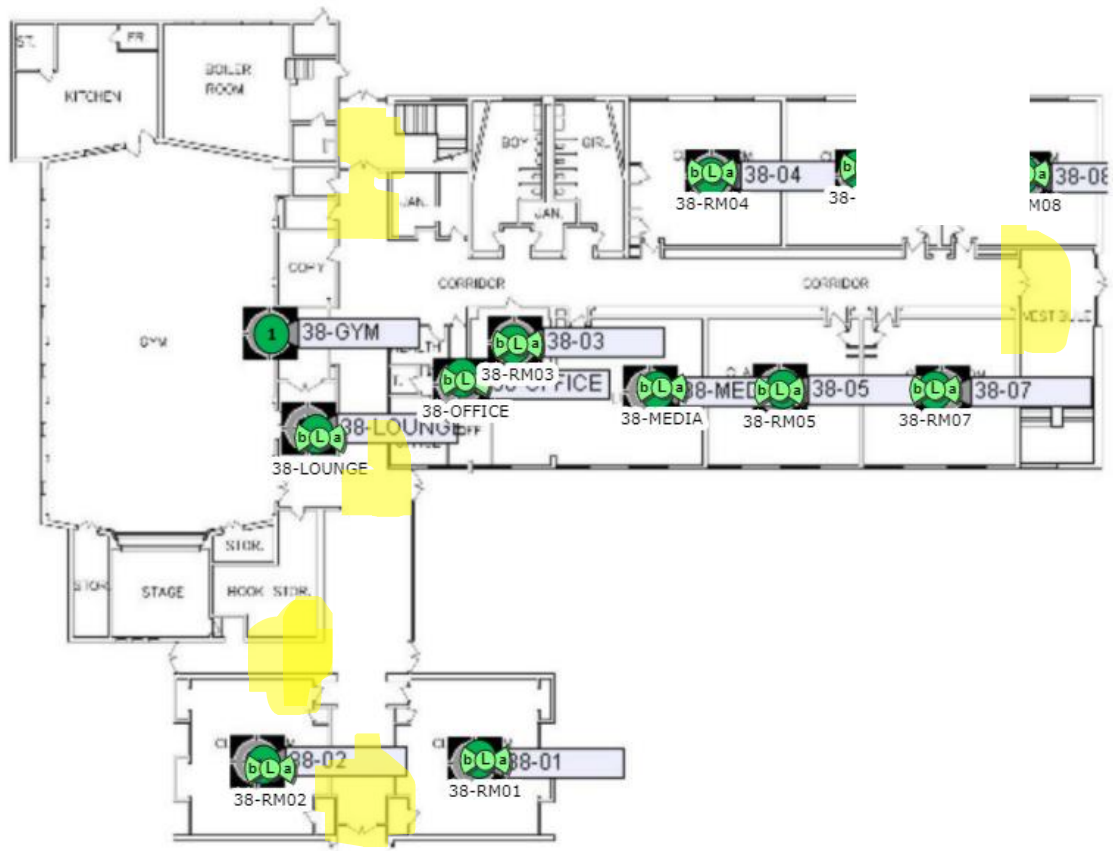
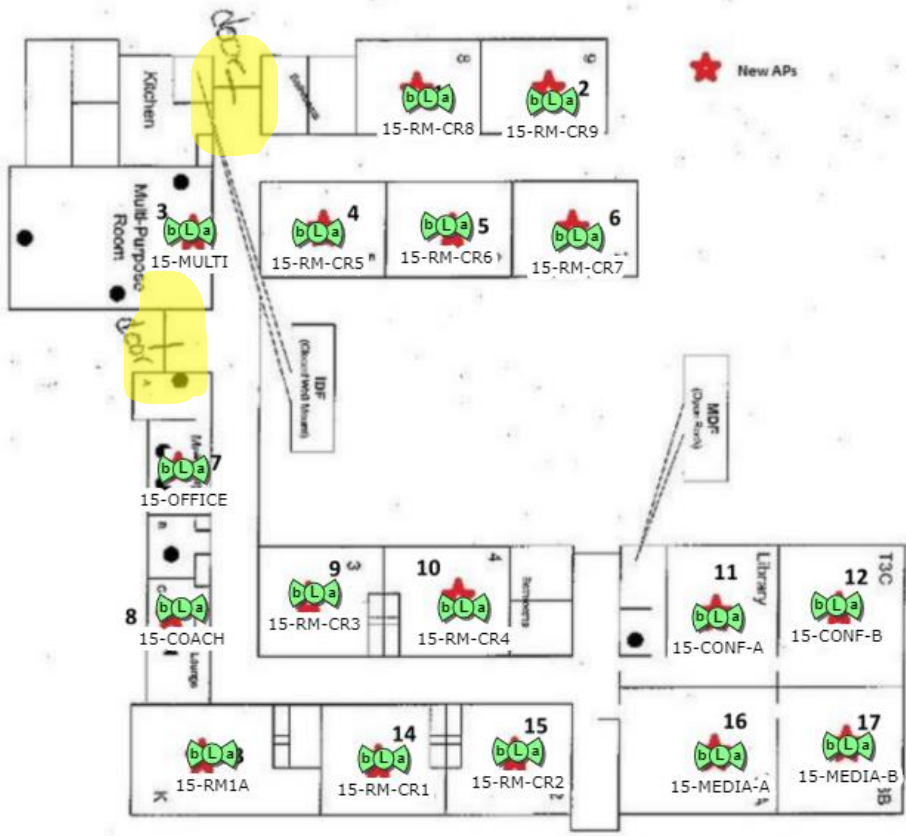
Appendix B – Maps







Doerr Elementary
3270 Perkins



SASA

RUBEN DANIELS LIFELONG LEARNING CENTER

FIRST FLOOR PLAN

AREA - 112,722 SQ. FT.

DRAWING NUMBER 57-10-02

SCALE

0 10' 20' 30' 40' 50' 100'

NORTH

Entrance 3

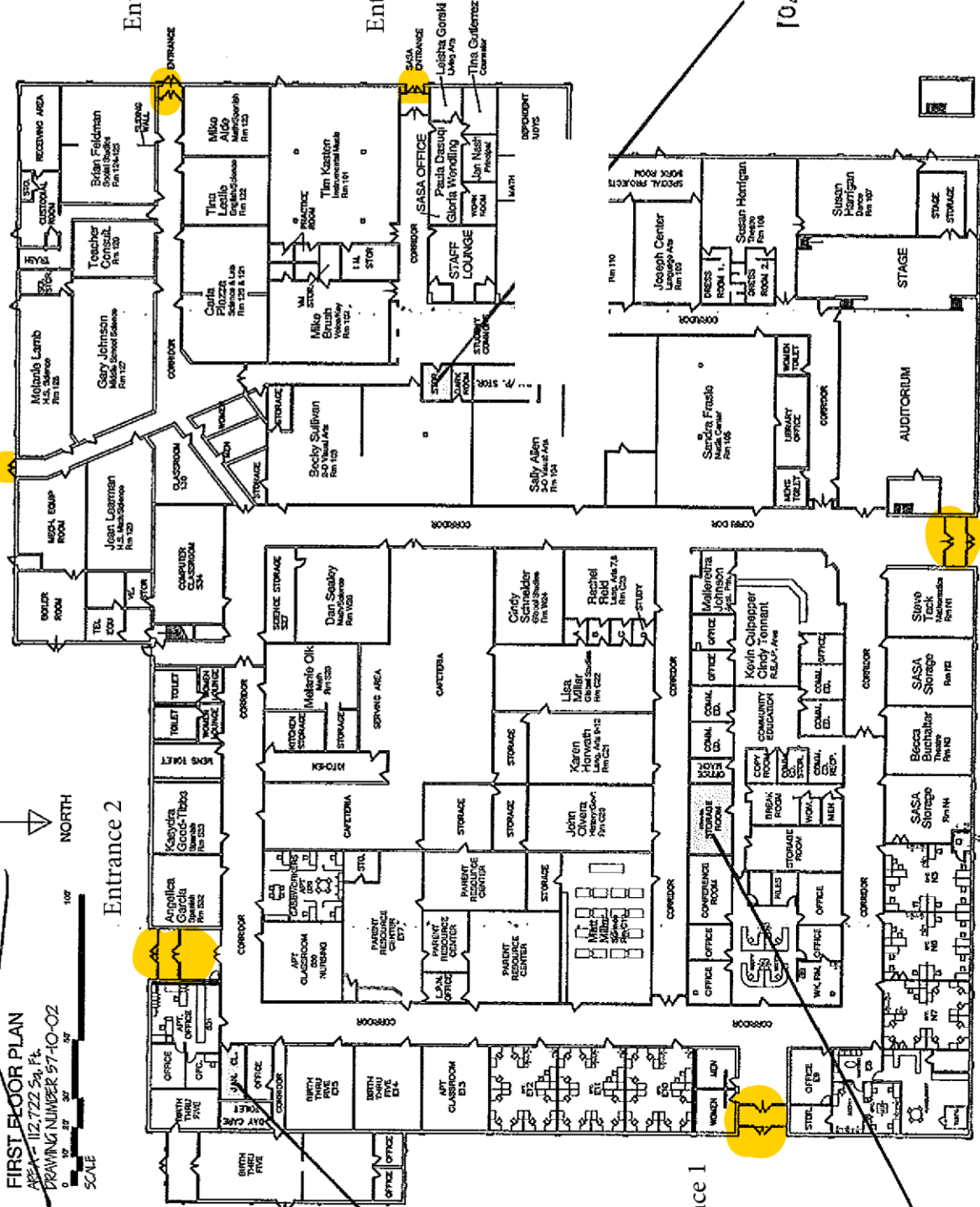
Entrance 2

Entrance 4

Entrance 5

Entrance 1

Entrance 6



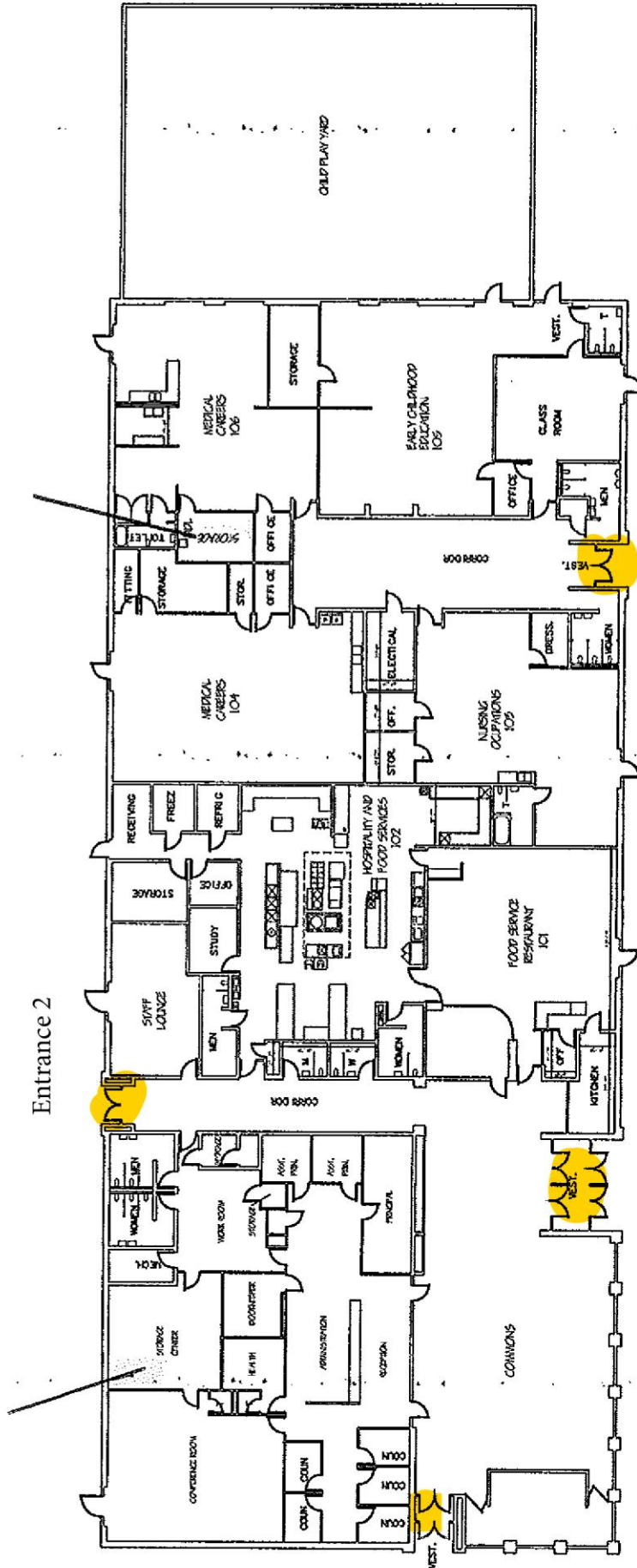
IDF1

10.254.8.11

IDF2

10.254.8.21

MDF - 10.254.8.1



SAGINAW CAREER COMPLEX (UNIT A)
FIRST FLOOR PLAN
 DRAWING NUMBER C8A-10-02

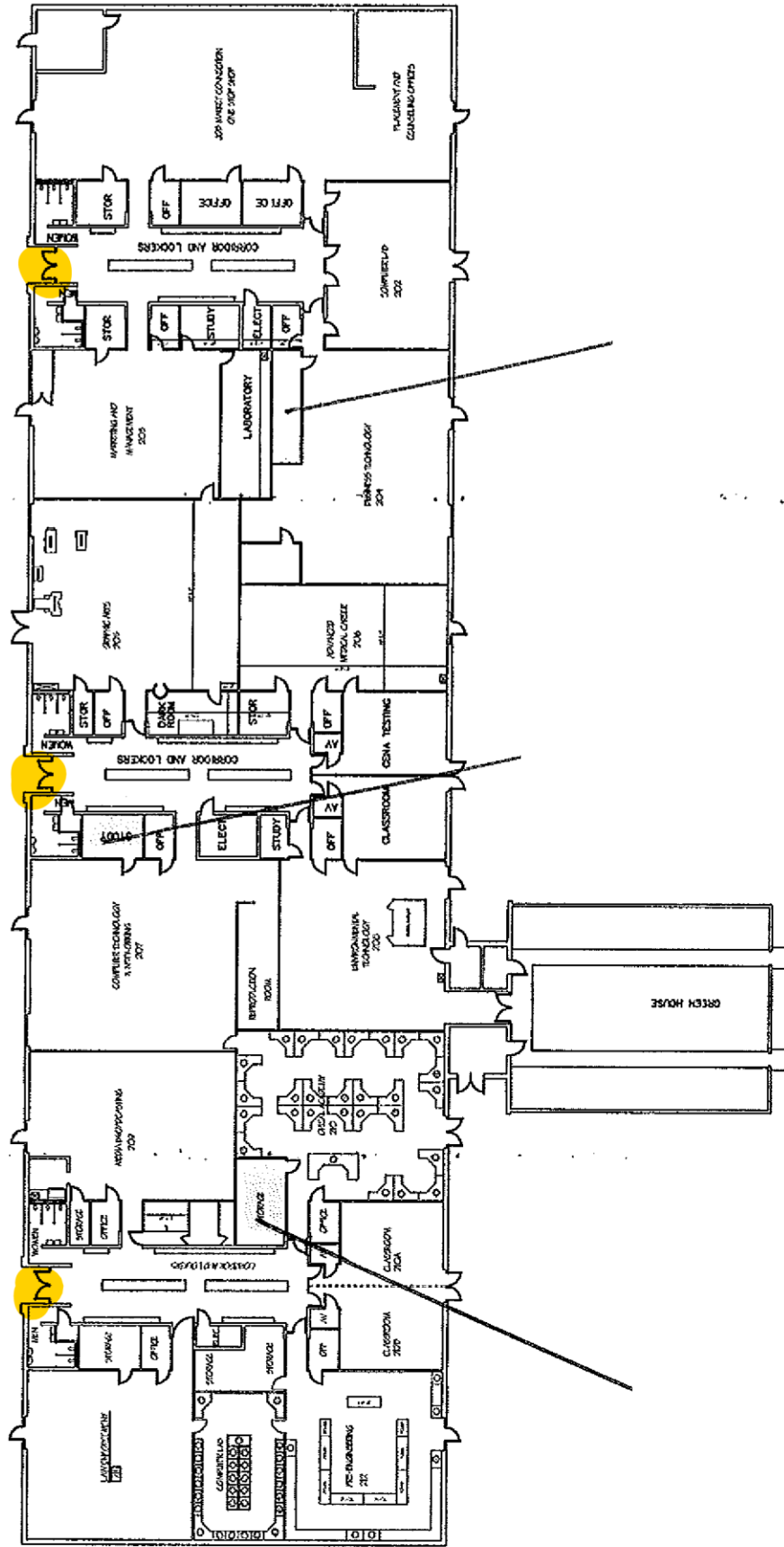
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NORTH

Entrance 1

Entrance 2

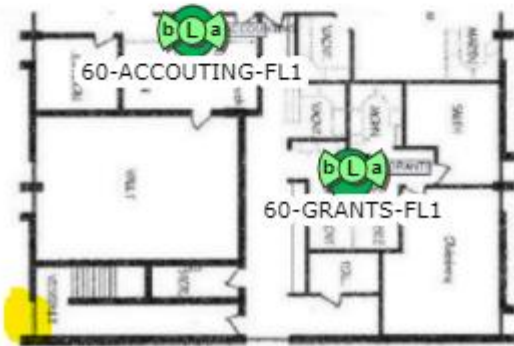
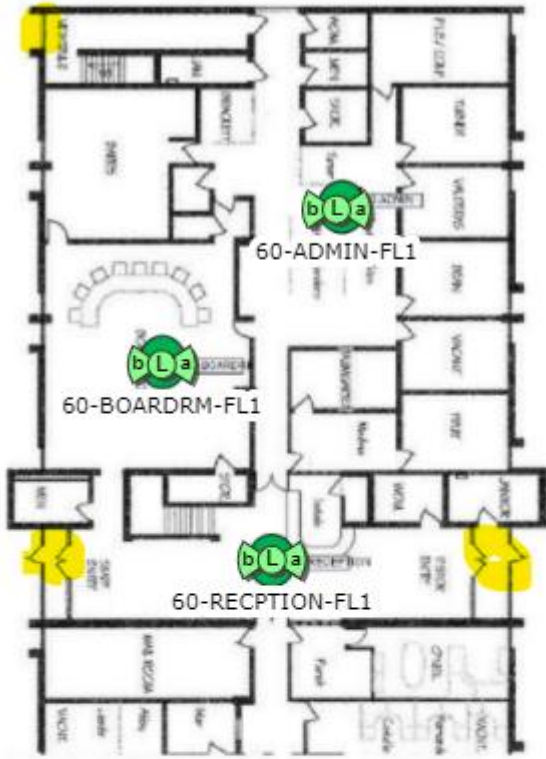
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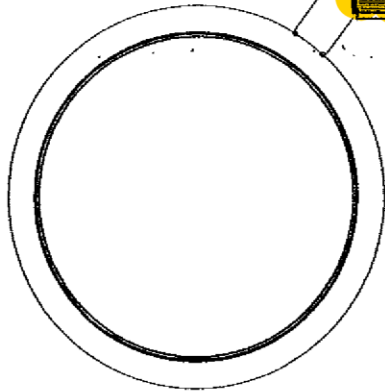
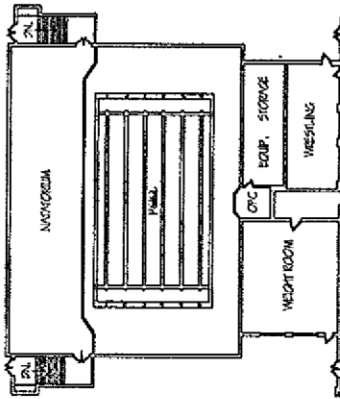
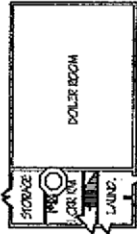
SAGINAW CAREER COMPLEX (UNIT B)

FIRST FLOOR PLAN
DRAWING NUMBER OSB-10-02





ARTHUR HILL H.S.
 FIRST FLOOR PLAN
 DRAWING NUMBER: CH-022



Entrance 3
 GYMNASIUM

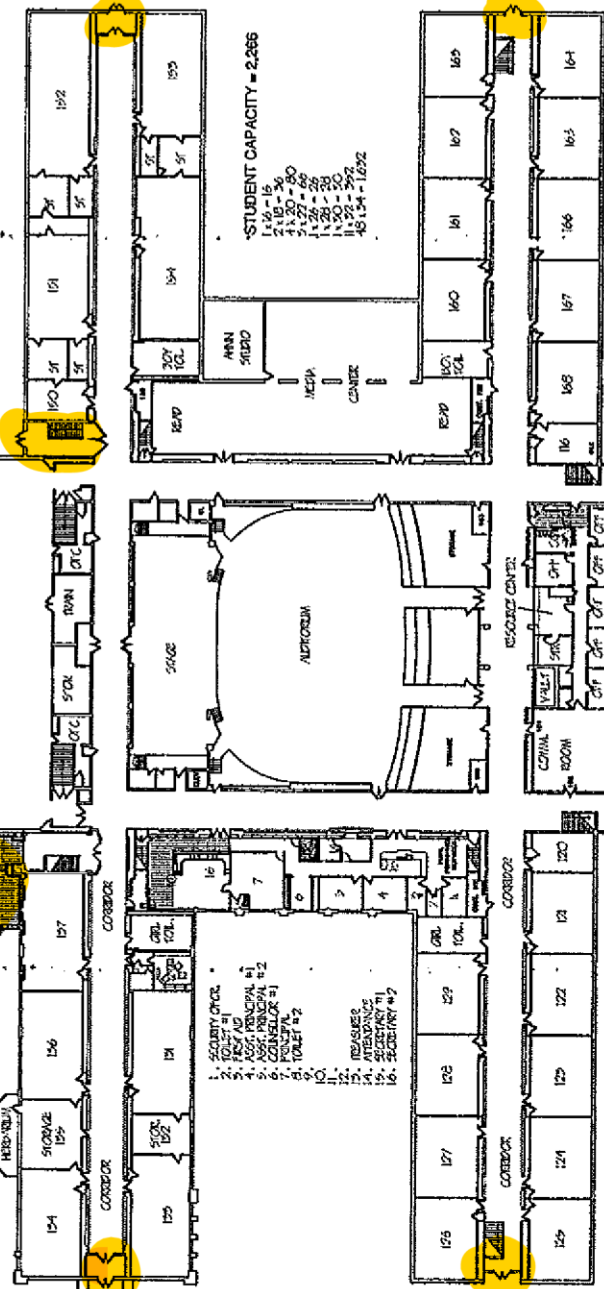
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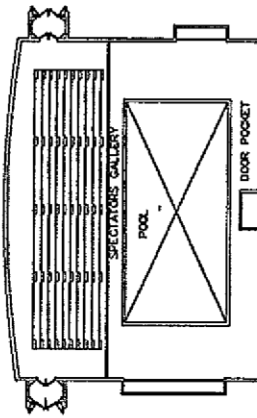
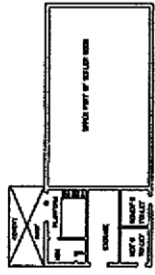
Entrance 5

Entrance 6

Entrance 2

Entrance 1





Entrance 4

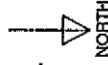
Entrance 1

Entrance 2

Entrance 3

4 doors
Entrance 5

SAGINAW HIGH H.S.
FIRST FLOOR PLAN
DRAWING NUMBER: IHC-02
SCALE



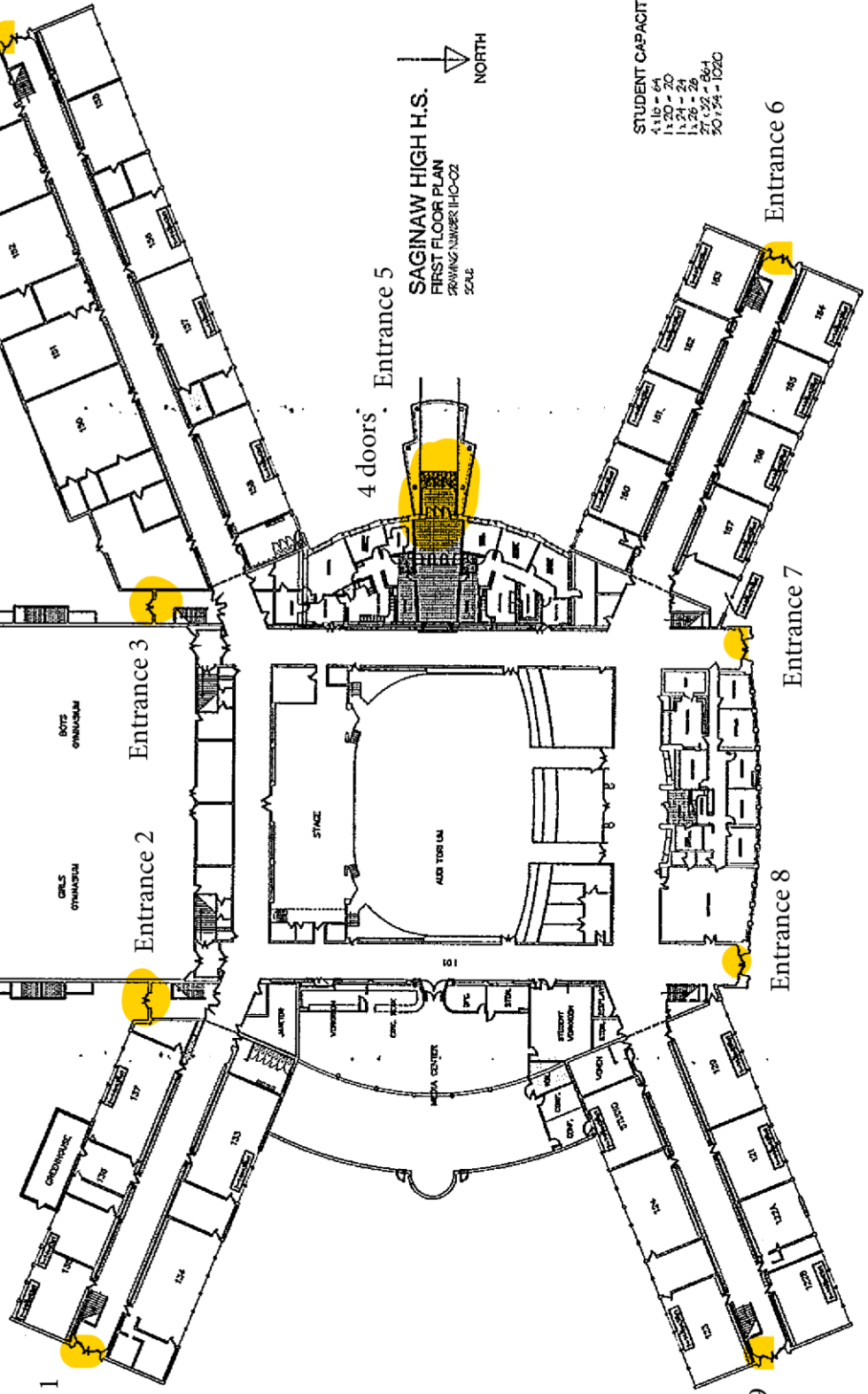
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 4,116 = 64
 1,120 = 20
 1,124 = 24
 27,132 = 64
 20,134 = 1020

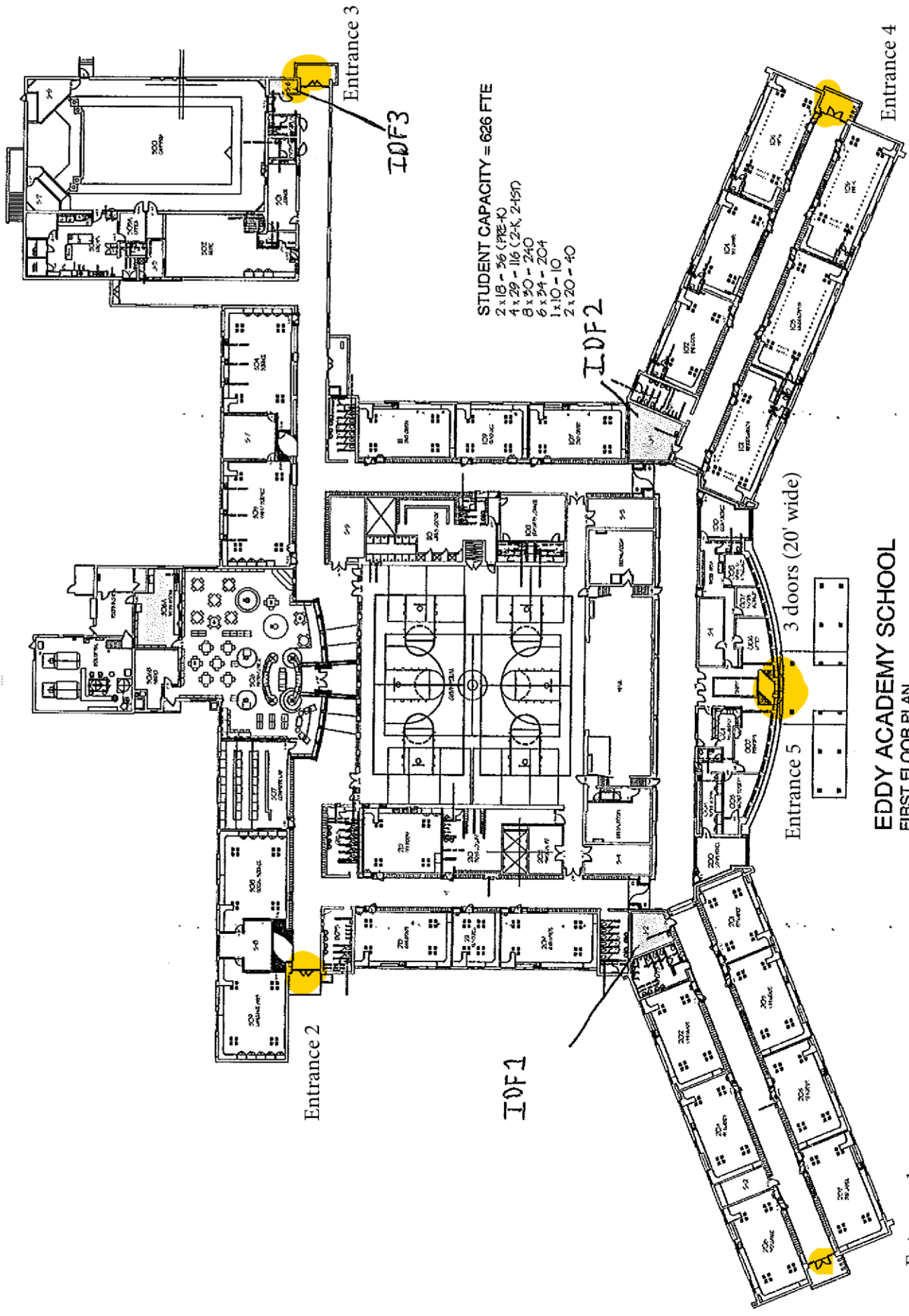
Entrance 9

Entrance 8

Entrance 7

Entrance 6





STUDENT CAPACITY = 626 FTE
 2 x 18 - 36 (PRE-K)
 4 x 29 - 116 (2-K, 2-150)
 8 x 30 - 240
 6 x 34 - 204
 1 x 10 - 10
 2 x 20 - 40

Entrance 2

Entrance 3

I0F3

I0F1

I0F2

Entrance 4

Entrance 5 (3 doors (20' wide))

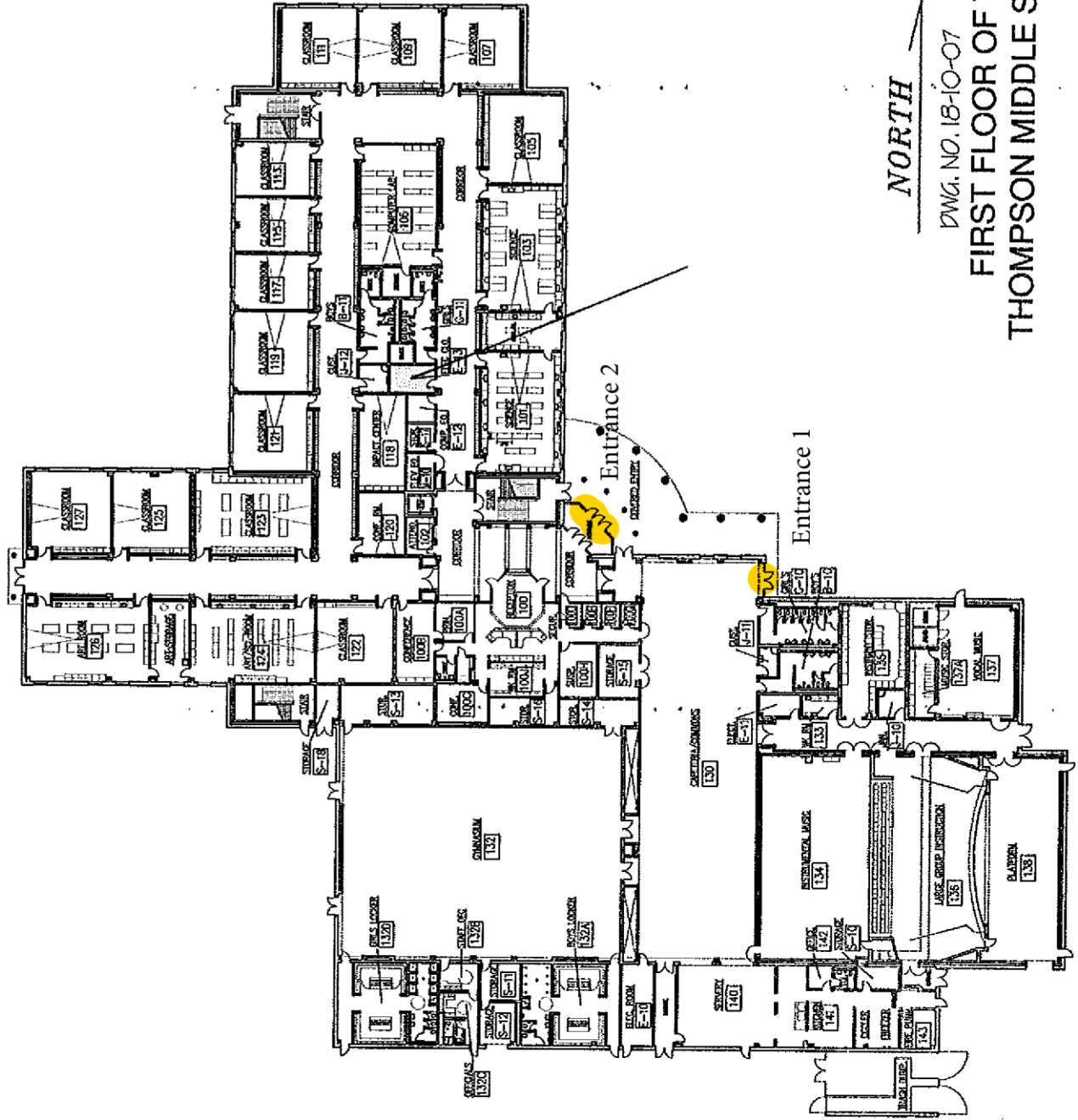
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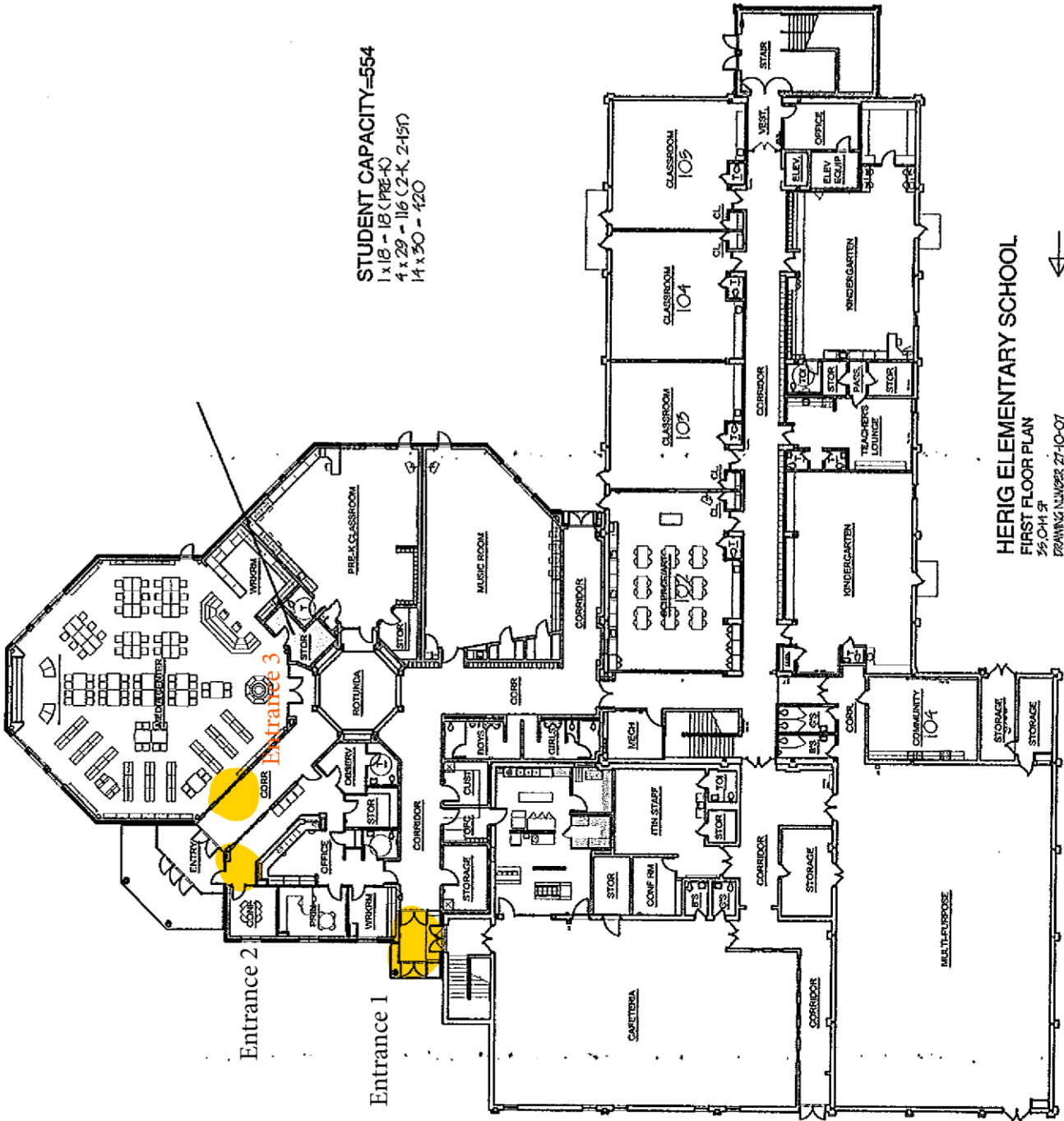
EDDY ACADEMY SCHOOL
 FIRST FLOOR PLAN
 DRAWING NUMBER 48-10-05



SCALE

NORTH 
 DWG. NO. 18-10-07
**FIRST FLOOR OF THE
 THOMPSON MIDDLE SCHOOL**





STUDENT CAPACITY=554
 1 x 18 - 18 (PRE-K)
 4 x 29 - 116 (2-K, 2-1ST)
 14 x 30 - 420

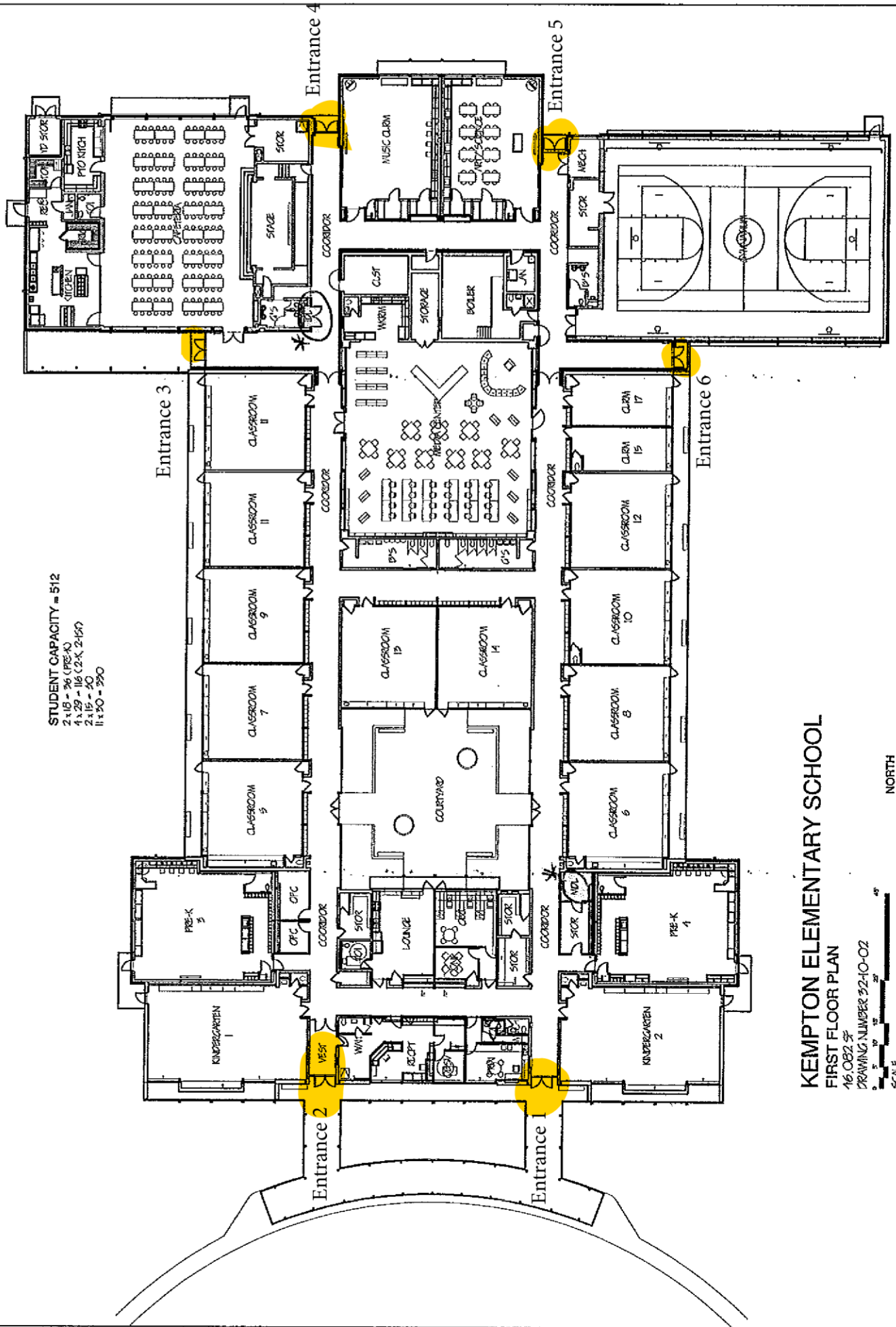
Entrance 1

Entrance 2

Entrance 3

HERIG ELEMENTARY SCHOOL
 FIRST FLOOR PLAN
 1/2 CH 1/2
 DRAWING NUMBER 27-10-07
 SCALE
 NORTH

STUDENT CAPACITY = 512
 2 x 16 = 36 (PRE-K)
 1 x 29 = 29 (K)
 2 x 15 = 30
 1 x 50 = 50



KEMPTON ELEMENTARY SCHOOL

FIRST FLOOR PLAN

16.062.5F

DRAWING NUMBER 92-10-02



NORTH

LOOMIS ELEMENTARY SCHOOL

FIRST FLOOR PLAN

SF 44,400

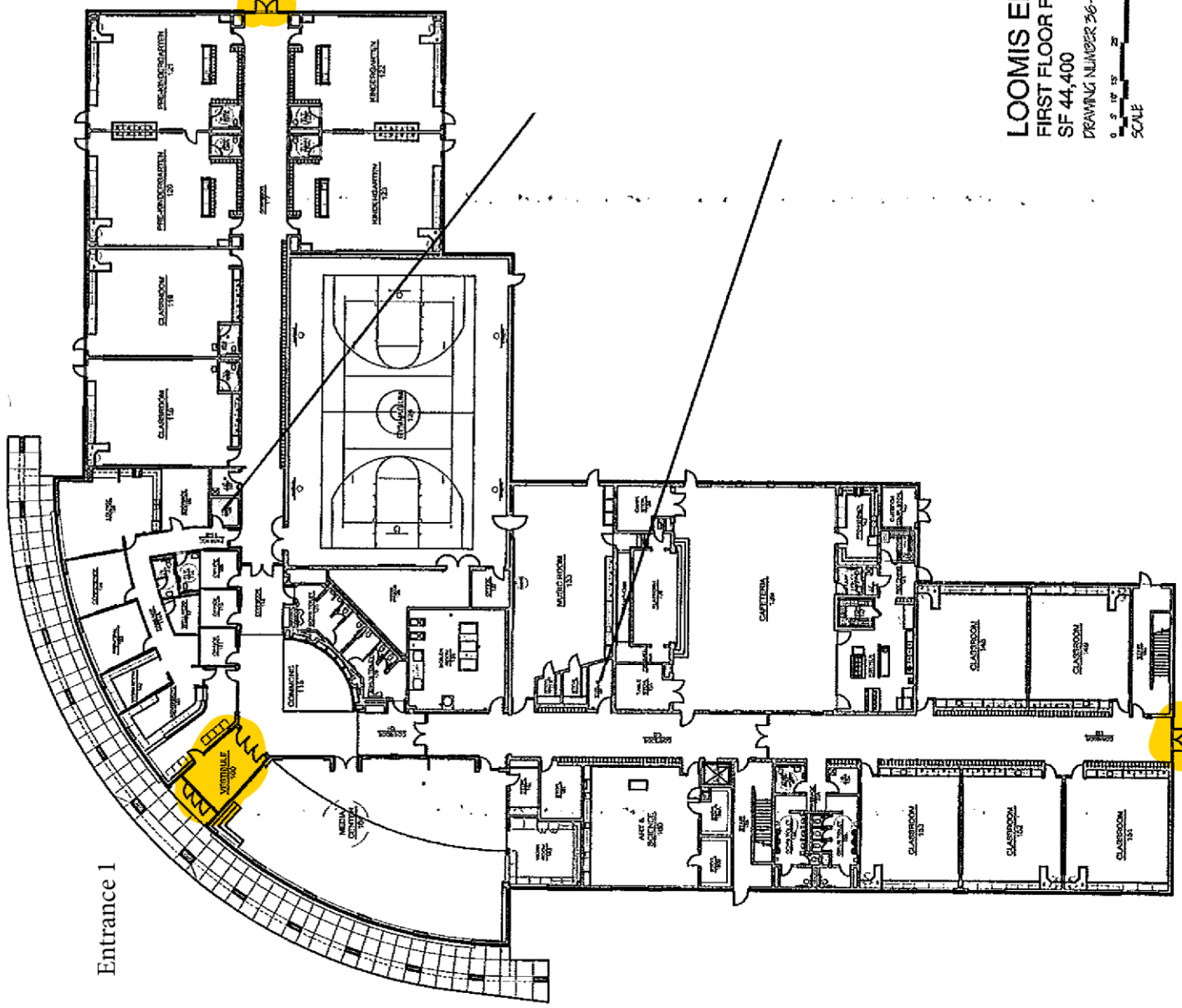
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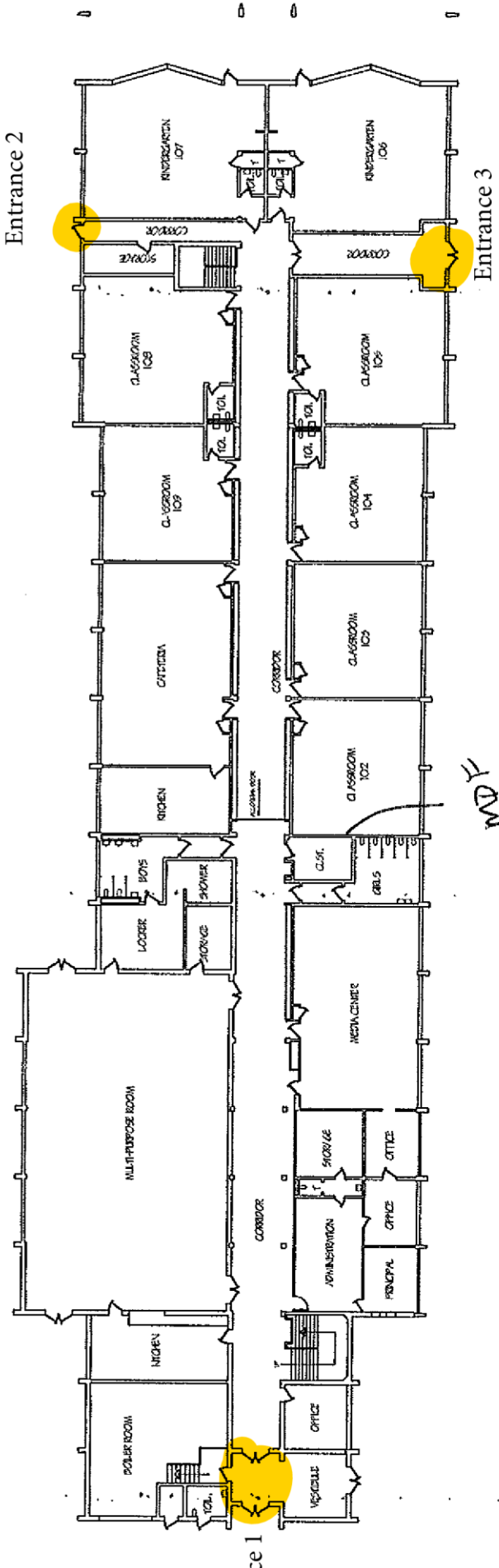


Entrance 2

Entrance 1

Entrance 3





MERRILL PARK ELEMENTARY SCHOOL
FIRST FLOOR PLAN
 DRAWING NUMBER 37-10-02



STUDENT CAPACITY (STATE) = 450
 8 x 25 - 200 (FIRST FLOOR)
 10 x 25 - 250 (SECOND FLOOR)

STUDENT CAPACITY (CONTRACT) = 554
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 4 x 29 - 116 (2-K, 2-1ST)
 1 x 30 - 120

MDF

Entrance 1

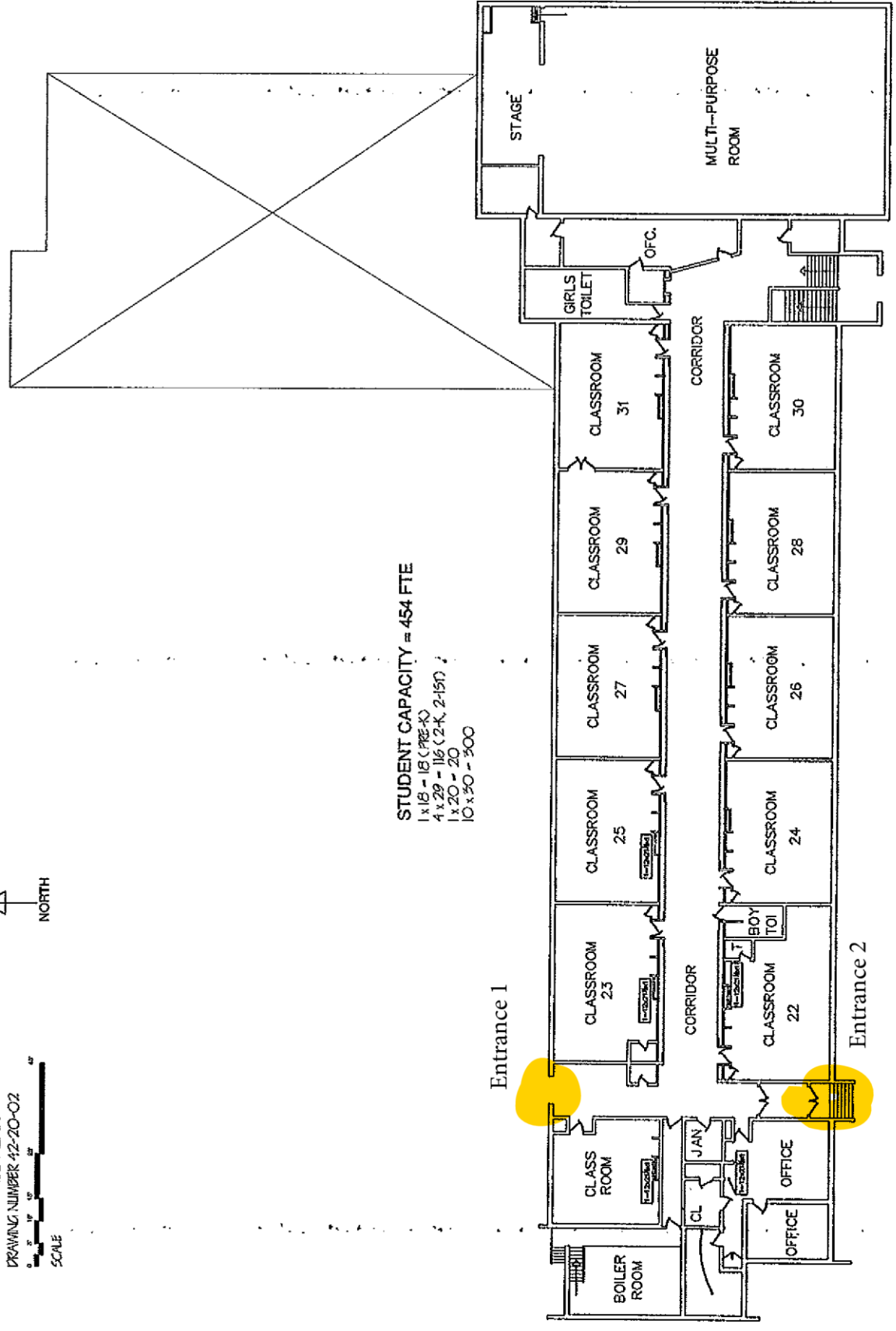
Entrance 2

Entrance 3

ROUSE ELEMENTARY SCHOOL
 MAIN LEVEL PLAN
 DRAWING NUMBER 42-20-02

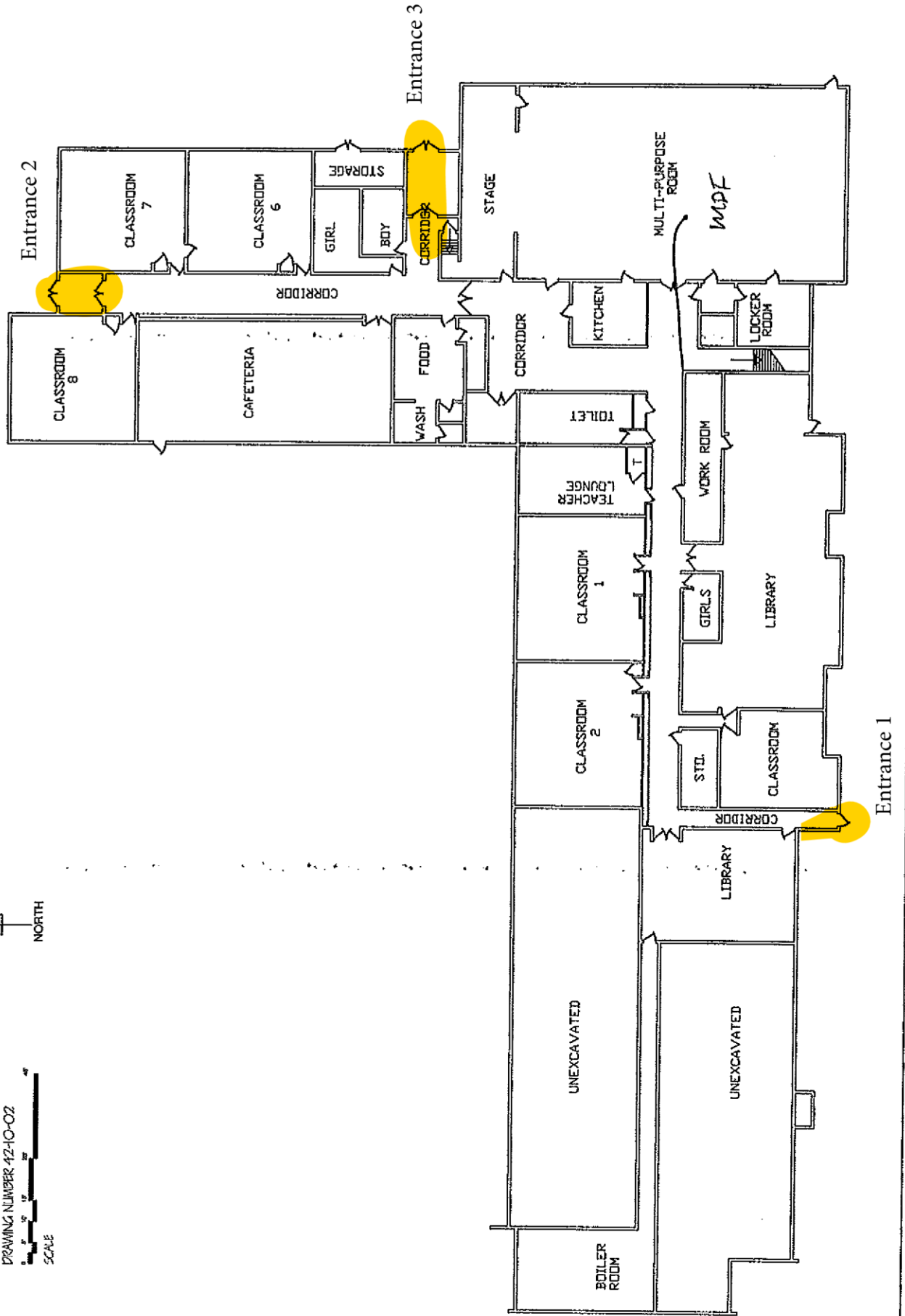


STUDENT CAPACITY = 454 FTE
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 4 x 29 - 116 (2-K, 2-1ST)
 1 x 20 - 20
 10 x 50 - 500



104

ROUSE ELEMENTARY SCHOOL
LOWER LEVEL PLAN
DRAWING NUMBER 42-10-02



Entrance 3

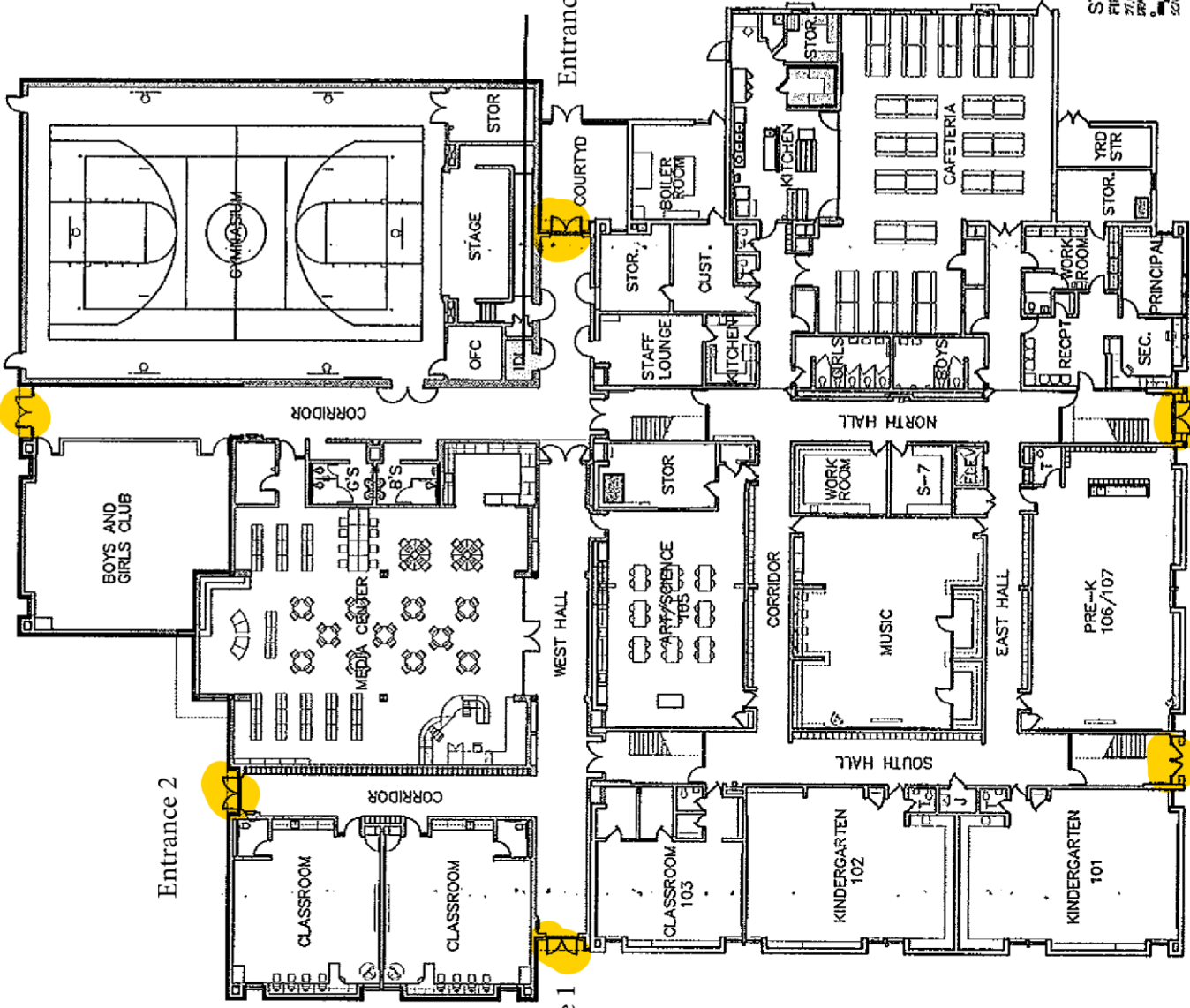
Entrance 2

Entrance 1

Entrance 4

Entrance 6

Entrance 5



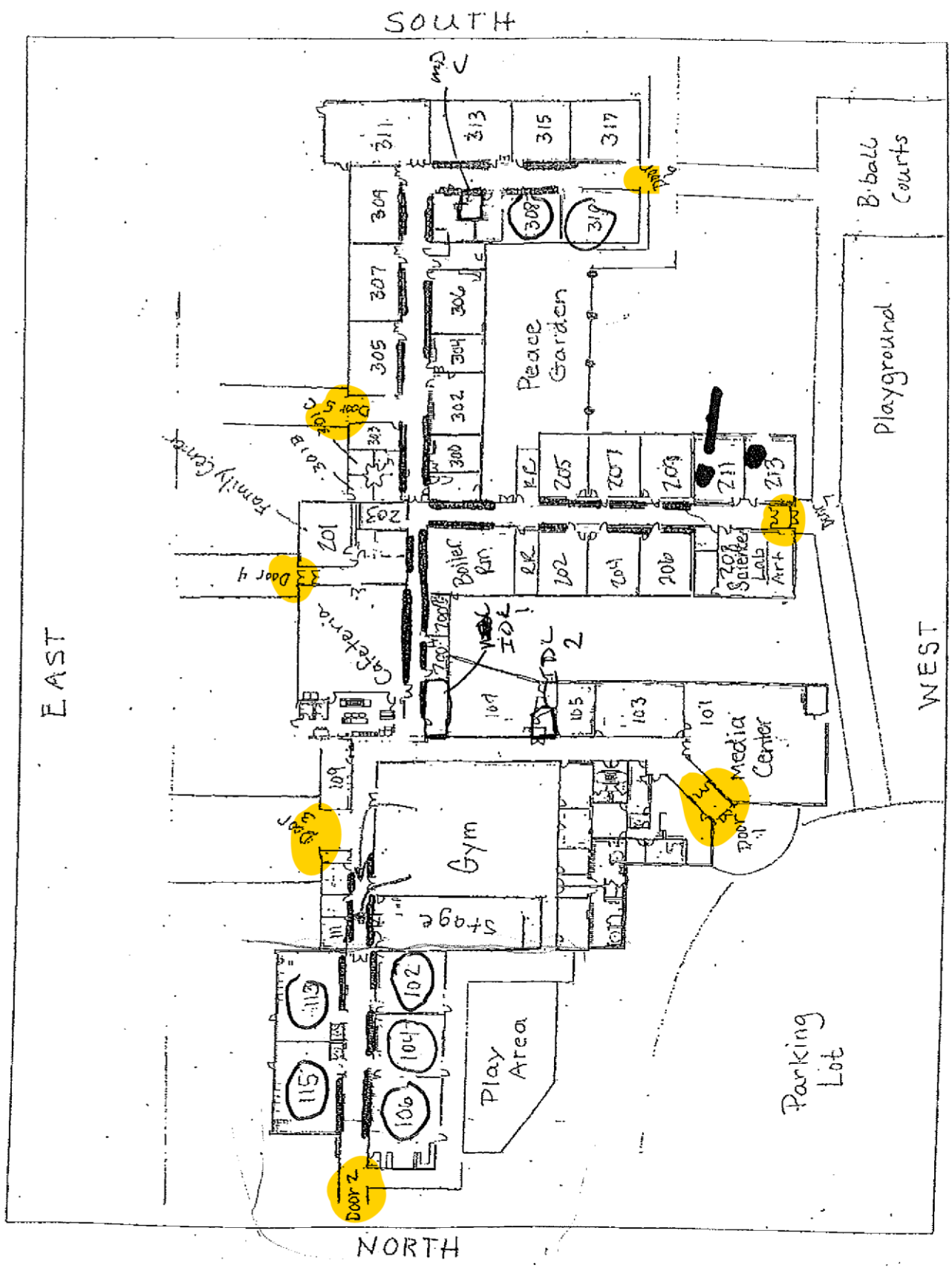
STUDENT CAPACITY = 484
 11.15 - 15.75 C
 11.15 - 15.75 C
 12.30 - 16.0

STONE ELEMENTARY SCHOOL
 FIRST FLOOR PLAN
 DRAWN BY: MAREK H. H. OZ
 SCALE: 1" = 10'-0"

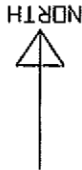


Tornado Safety Location

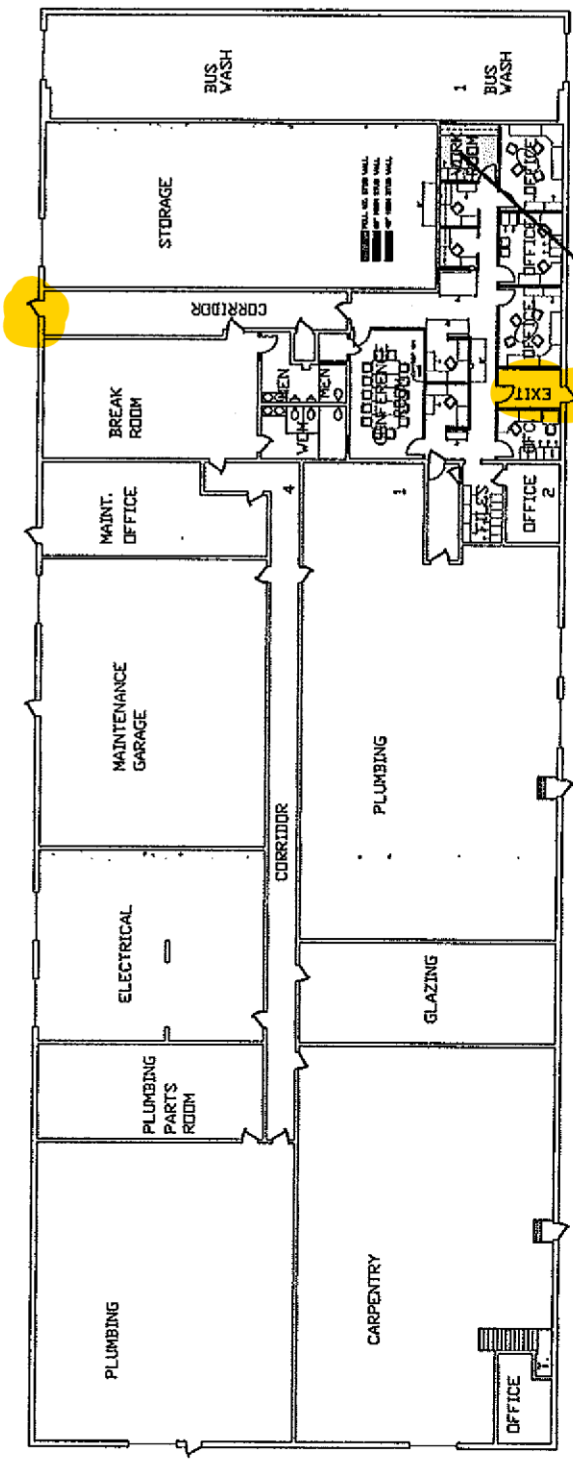
Gym



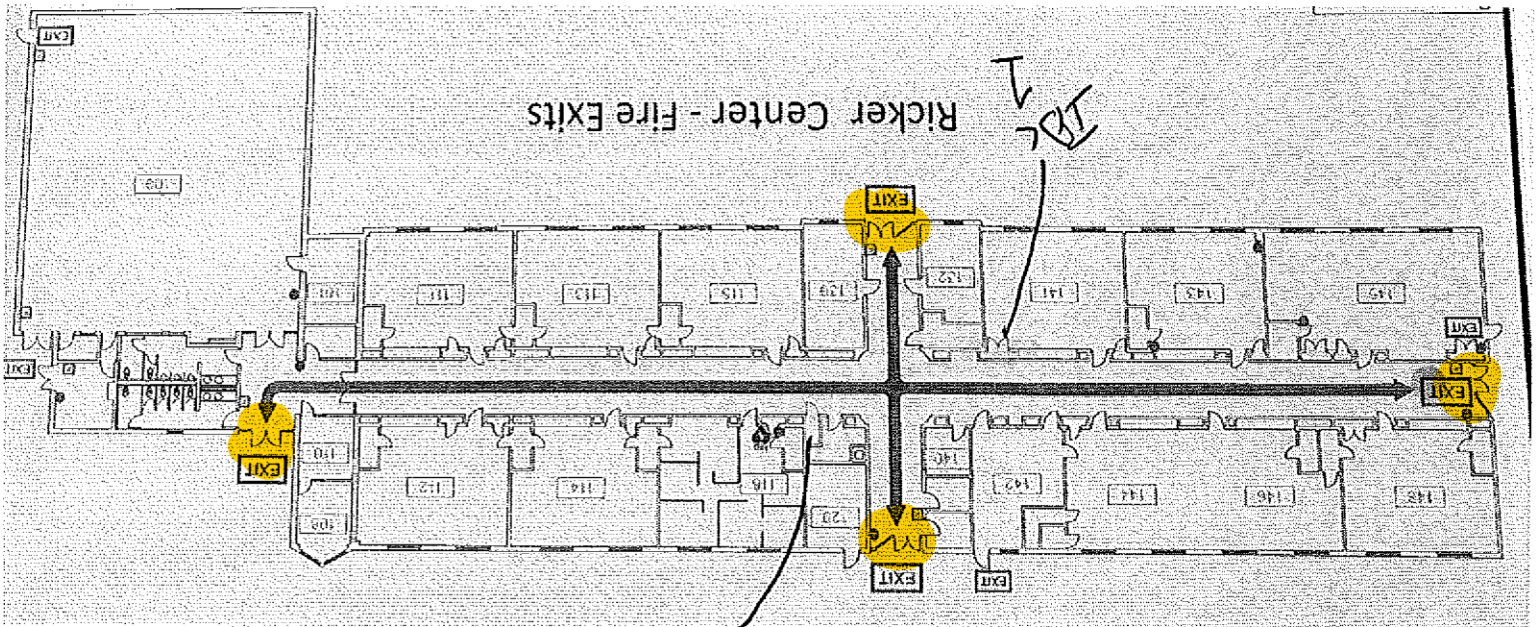
Transportation / maintenance



FIRST FLOOR BUS GARAGE
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