Bid Package T3 - Access Control & Technology Upgrades
Bids - July 7, 2025

Technology Designer
Barton Malow Builders
26500 American Drive
Southfield, MI 48034
248.436.5000
www.bartonmalow.com

GENERAL DEMOLITION NOTES:

1. DEMOLITION WORK INDICATED ON THE DRAWINGS ARE CONCEPTUAL. INCLUDE ALL ITEMS RELATED TO THE EXISTING SYSTEM (e.g. EQUIPMENT, CABLING, RACEWAY, SUPPORTS, ETC.) IN ORDER TO REMOVE ABANDONED SYSTEMS OR ACCOMPLISH THE INSTALLATION OF THE SPECIFIED NEW WORK.
2. EXAMINE EXISTING CONDITIONS AND EXTENT OF DEMOLITION WORK PRIOR TO SUBMISSION OF BIDS.
3. EACH CONTRACTOR SHALL PROVIDE INCIDENTAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE WORK OF OTHER CONTRACTORS, WHETHER OR NOT SPECIFICALLY INDICATED.
4. ABANDONED MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, AND AS SPECIFIED IN THE PROJECT MANUAL. THE BASE BID SHOULD REFLECT SAVINGS BASED ON ANY ITEMS WITH RESIDUAL VALUE, TRADE-IN CREDIT, ETC.
5. CABLES TO BE ABATED SHALL BE REMOVED TO THEIR SOURCE AND ANY CORRESPONDING LABELS REMOVED FROM THE EQUIPMENT OR TERMINATION POINT. REMOVE THE CORRESPONDING PATCH/TIE CABLE TO THE SOURCE EQUIPMENT.
6. PROVIDE PROPER SUPPORTS TO EXISTING UNSUPPORTED CABLES WHERE CEILINGS ARE TO BE REMOVED.
7. CONTRACTOR SHALL INSTALL FIRESTOPPING ON ANY CONDUITS/PENETRATIONS WHERE CABLES ARE REMOVED OR DISTURBED DURING DEMOLITION.
8. EQUIPMENT TO BE TURNED OVER TO THE OWNER SHALL BE DELIVERED TO A CENTRAL LOCATION. EQUIPMENT SHALL BE CLEAN AND ORGANIZED. PROVIDE AN INVENTORY OF SALVAGED EQUIPMENT.
9. EQUIPMENT TO BE REINSTALLED AS PART OF THE PROJECT IS TO BE LABELED WITH ORIGINATING LOCATION (ROOM), REMOVED, CLEANED, STORED, REINSTALLED, AND TESTED PRIOR TO OWNER ACCEPTANCE.

GENERAL TECHNOLOGY NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. CONTRACTORS SHALL PROVIDE ALL INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. PRIOR TO BEGINNING WORK, CONTRACTORS ARE TO REVIEW BUILDING PLANS, INSTALLATION LOCATIONS, AND SITE CONDITIONS. NOTIFY THE TECHNOLOGY DESIGNER OF ANY CONDITIONS THAT MAY: PREVENT PROPER INSTALLATION AND OPTIMAL PERFORMANCE OF THE SYSTEMS; VOID THE MANUFACTURER'S WARRANTY; OR THAT CONFLICT WITH THE INTENT OF THE PROJECT. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN RESOLVED. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL WORK RELATED TO CORRECTING UNREPORTED CONFLICTS AND ISSUES, AT NO ADDITIONAL COST TO THE OWNER.
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4. CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN PENETRATIONS, SLEEVES, AND CORES THROUGH ALL WALLS AND FLOORS. ALL SLEEVES SHALL HAVE NYLON BUSHINGS.
5. CONTRACTOR SHALL PROVIDE FIRESTOPPING ON PENETRATIONS PASSING THROUGH WALLS AND FLOORS IN WHICH THEY WORK.
6. CONTRACTOR SHALL COORDINATE TELECOMMUNICATION ROOM LAYOUTS WITH BARTON MALOW AND ALL IMPACTED CONTRACTORS PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT LOCATIONS AND ROUGH-IN REQUIREMENTS WITH BARTON MALOW AND ALL IMPACTED CONTRACTORS PRIOR TO INSTALLATIONS.
8. CONTRACTOR SHALL PROVIDE FACEPLATES, INSERTS, AND ADAPTERS AS NECESSARY FOR THEIR DEVICES TO FIT-IN AND WORK-WITH: RACEWAY; FLOOR, TABLE, AND BACK BOXES; AND ELECTRICAL OUTLETS, WHETHER EXISTING OR PROVIDED BY OTHERS.
9. CONTRACTOR SHALL PROVIDE PROTECTIVE GUARDS ON THEIR DEVICES (CLOCKS, PHONES, ACCESS POINTS, MOTION DETECTORS, ETC.) SUBJECT TO ABUSE IN GYMNASIUMS AND NATATORIUMS.

STRUCTURED CABLING LEGEND:

CABLING OUTLET / WALL PLATE

- LOCATED IN FLOOR BOX
- LOCATED ON WALL, LOW HEIGHT (0"-36" AFF)
- LOCATED ON WALL, MID HEIGHT (36"-84" AFF)
- LOCATED ON WALL, HIGH HEIGHT (84"+ AFF)
- LOCATED AT CEILING

OUTLET / PLATE ABBREVIATIONS

#	NUMBER OF DATA DROPS
AP	WIRELESS ACCESS POINT LOCATION, INCLUDE 1 DATA DROP
ATV	APPLE TV DEVICE LOCATION, INCLUDE 1 DATA DROP
DC	DIGITAL CLOCK LOCATION, INCLUDE 1 DATA DROP
PA	PUBLIC ADDRES SPEAKER LOCATION, INCLUDE 1 DATA DROP
PS	PULL STATION LOCATION, INCLUDE 1 DATA DROP
SFA	SOUNDFIELD AMPLIFIER LOCATION, INCLUDE 1 DATA DROP
WP	WALL PHONE LOCATION, INCLUDE 1 DATA DROP & WALL PHONE PLATE
VS	VIDEO SURVEILLANCE CAMERA LOCATION, INCLUDE 1 DATA DROP

HARDWARE

- AP | AP | WIRELESS ACCESS POINT, CEILING | WALL MOUNTED
- TC | TIME CLOCK

AUDIOVISUAL & EPIC SYSTEMS LEGEND:

LINE STYLES

- THIN, DASHED, RED - DEMOLISH HARDWARE & CABLE TO SOURCE
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, COLOR-CODED - REPLACE EXISTING HARDWARE. DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, COLOR-CODED - NEW HARDWARE AND/OR CABLE

COLOR CODE

- GREEN - AUDIOVISUAL SYSTEM DEVICE
- PURPLE - IP EPIC DEVICE
- BROWN - ANALOG EPIC DEVICE

CABLING OUTLET / WALL PLATE

- LOCATED IN FLOOR BOX
- LOCATED ON WALL, LOW HEIGHT
- LOCATED ON WALL, MID HEIGHT
- LOCATED ON WALL, HIGH HEIGHT

OUTLET / PLATE ABBREVIATIONS

A	AUDIO PLATE: SEE SCHEMATIC
V	AUDIO AND / OR VIDEO PLATE: SEE SCHEMATIC
AV	LEGACY AUDIOVISUAL INTERFACE

HARDWARE

- SFA | LEGACY SOUNDFIELD SYSTEM (BAKER MS ONLY)
- CRT | CRT TV, MOUNT, ASSOCIATED PLATES, CONNECTORS AND AV CABLING (BAKER MS ONLY) COAX CABLE TV CABLING DEMO BY STRUCTURED CABLING CONTRACTOR
- FP | FP | FLAT PANEL DISPLAY, CEILING OR CART MOUNTED | WALL MOUNTED, MINIMUM SIZE INDICATED
- PJ | PROJECTOR, CEILING MOUNTED
- ATV | APPLE TV, TYPICALLY CEILING MOUNTED, USING OWNER PROVIDED BRACKET
- SFA | XD | SOUNDFIELD AMPLIFIER | XD RECEIVER, WALL MOUNTED AUDIO ENHANCEMENTS: MS-500 KIT UNLESS OTHERWISE NOTED
- ZC | ZONE CONTROLLER & AMPLIFIER, RACK LOCATED, AUDIO ENHANCEMENTS: CZA-1300
- DSR | DOOR SENSOR INTERFACE, RACK LOCATED, BARIX: BARIONET 50
- DTI | IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSWDHD-MW
- DXI | IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPCSHD-DS-MB
- DXI | IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSIGNL-RWB
- PA | IP PA SPEAKER, CEILING MOUNTED, ADVANCED NETWORK DEVICES: IPSCM-RMe INCLUDE BACKBOX FOR WALL MOUNT AND HARD CEILING APPLICATIONS
- TTC | TOUCH CONTROLLER, AUDIO ENHANCEMENT: INTERACTIVE TOUCH CONTROLLER
- SF | SF | SOUNDFIELD SPEAKER, CEILING | WALL MOUNTED
- PS | PULL STATION (EMERGENCY BUTTON), WALL MOUNTED, AUDIO ENHANCEMENT: WPA-705
- #DS | DOOR SENSOR, AUDIO ENHANCEMENT: MAGNETIC DOOR SENSE SWITCH # INDICATES HOW MANY SENSORS WIRED TOGETHER AS SINGLE FEED
- HN | PAGING HORN, WALL MOUNTED, AUDIO ENHANCEMENTS: SP-1091, TAP 15 WATTS

AUDIOVISUAL SYSTEMS NEW PROJECT NOTES:

1. WHERE SHOWN, CABLE DEVICES TO LOCATIONS IDENTIFIED; DAISY-CHAIN 70V SPEAKERS/HORNS WITH COMMON HEAD END.

ACCESS CONTROL SYSTEM LEGEND:

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- THIN, DASHED, ORANGE - REPLACE EXISTING HARDWARE. DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, ORANGE - NEW HARDWARE AND/OR CABLE

HARDWARE:

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- CR | CARD READER
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- VIM | VIDEO INTERCOM MASTER STATION
- CP | CONTROL PANEL

VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.

SHEET INDEX:

BARNARD ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

BEMIS ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

COSTELLO ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

HAMILTON ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

HILL ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

LEONARD ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

MARTELL ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

MORSE ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

SCHROEDER ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

TROY UNION ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

WASS ELEMENTARY SCHOOL
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WATTLES ELEMENTARY SCHOOL
T6 COMPOSITE, ACCESS CONTROL SYSTEM

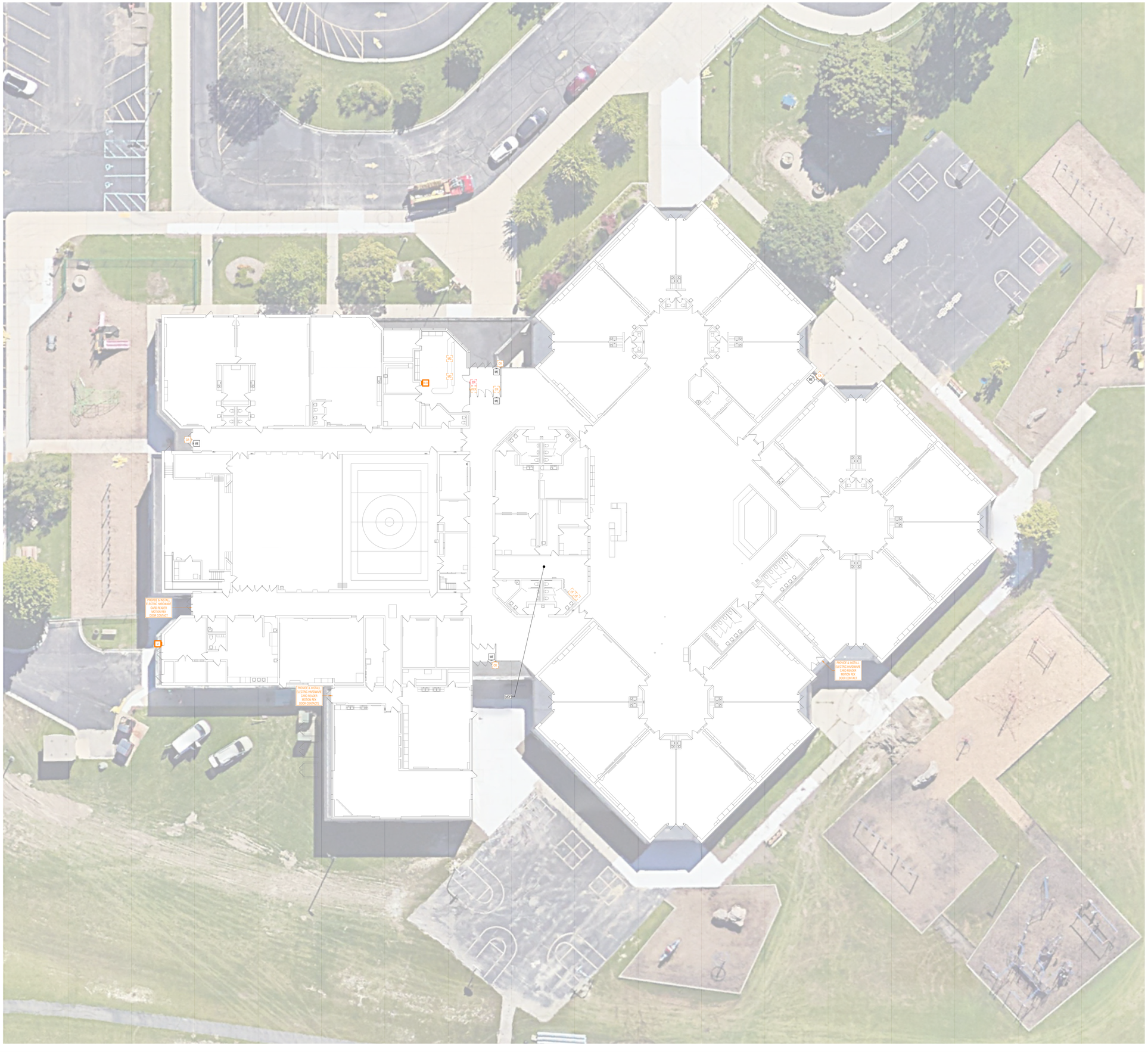
BAKER MIDDLE SCHOOL
T1 1st & 2nd FLOOR COMPOSITE
T3 1st & 2nd FLOOR COMPOSITE, STRUCTURED CABLING
T5.1A 1st FLOOR UNIT A, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.1B 1st FLOOR UNIT B, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.1C 1st FLOOR UNIT C, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.1D 1st FLOOR UNIT D, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.2B 2nd FLOOR UNIT B, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.2C 2nd FLOOR UNIT C, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.2D 2nd FLOOR UNIT D, AUDIOVISUAL SYSTEMS, EPIC SYSTEM

SMITH MIDDLE SCHOOL
T1.1 1st FLOOR COMPOSITE
T1.2 2nd FLOOR COMPOSITE
T5.1A 1st FLOOR UNIT A, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.1B 1st FLOOR UNIT B, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.1C 1st FLOOR UNIT C, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.1D 1st FLOOR UNIT D, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.1E 1st FLOOR UNIT E, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.1F 1st FLOOR UNIT F, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.2D 2nd FLOOR UNIT D, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T5.2E 2nd FLOOR UNIT E, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T6.1 1st FLOOR COMPOSITE, ACCESS CONTROL SYSTEM
T6.2 2nd FLOOR COMPOSITE, ACCESS CONTROL SYSTEM
T7.1 1st FLOOR COMPOSITE, VIDEO SURVEILLANCE SYSTEM
T7.2 2nd FLOOR COMPOSITE, VIDEO SURVEILLANCE SYSTEM

TROY HIGH SCHOOL
T6.0B LOWER FLOOR AREA B, ACCESS CONTROL SYSTEM
T6.1A 1st FLOOR AREA A, ACCESS CONTROL SYSTEM
T6.1B 1st FLOOR AREA B, ACCESS CONTROL SYSTEM
T6.1C 1st FLOOR AREA C, ACCESS CONTROL SYSTEM

ADMINISTRATION
TD3 COMPOSITE, TECHNOLOGY DEMOLITION PLAN
T3 COMPOSITE, STRUCTURED CABLING
T5 COMPOSITE, AUDIOVISUAL SYSTEMS, EPIC SYSTEM
T6 COMPOSITE, ACCESS CONTROL SYSTEM

DETAILS
T9.1 AUDIOVISUAL SYSTEM SCHEMATICS
T9.2 AUDIOVISUAL SYSTEM SCHEMATICS
T9.3 AUDIOVISUAL SYSTEM ELEVATIONS



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VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.

N

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Owner:

TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

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BIDS	07/07/2025

Key Plan:

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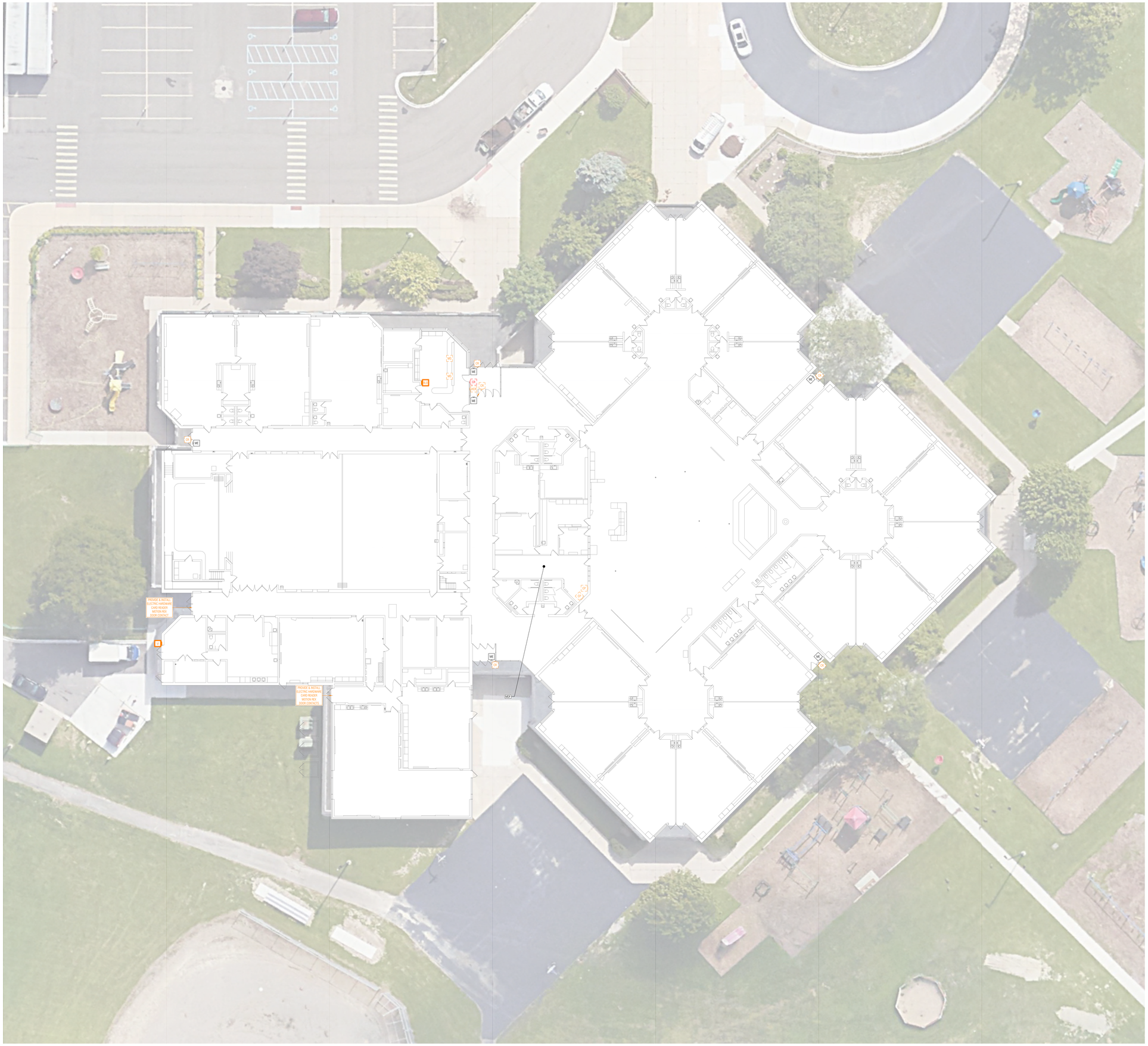
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Bid Package T3
Access Control System
& Technology Upgrades

Barnard
Elementary School

Composite
Access Control System

T6



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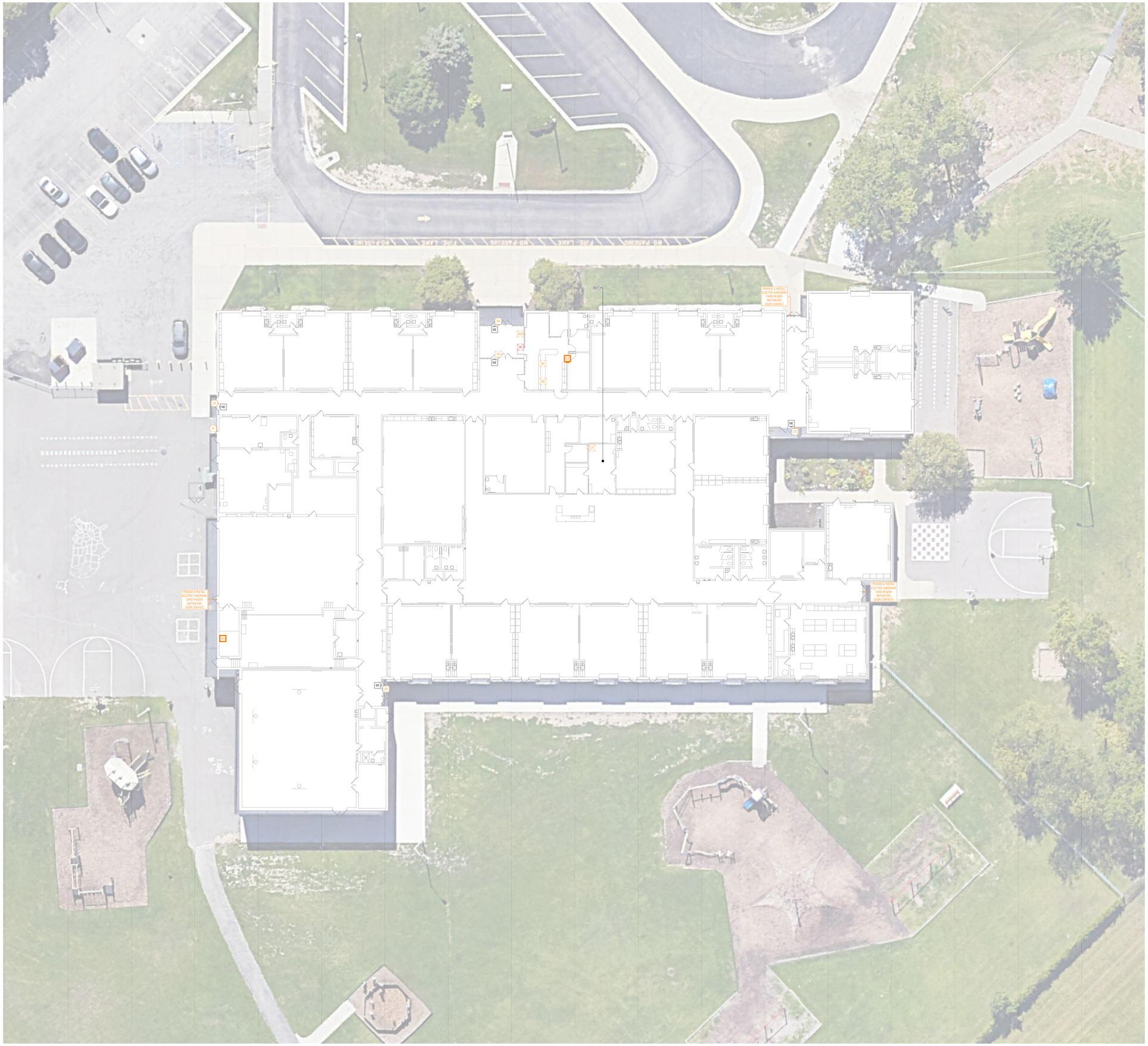
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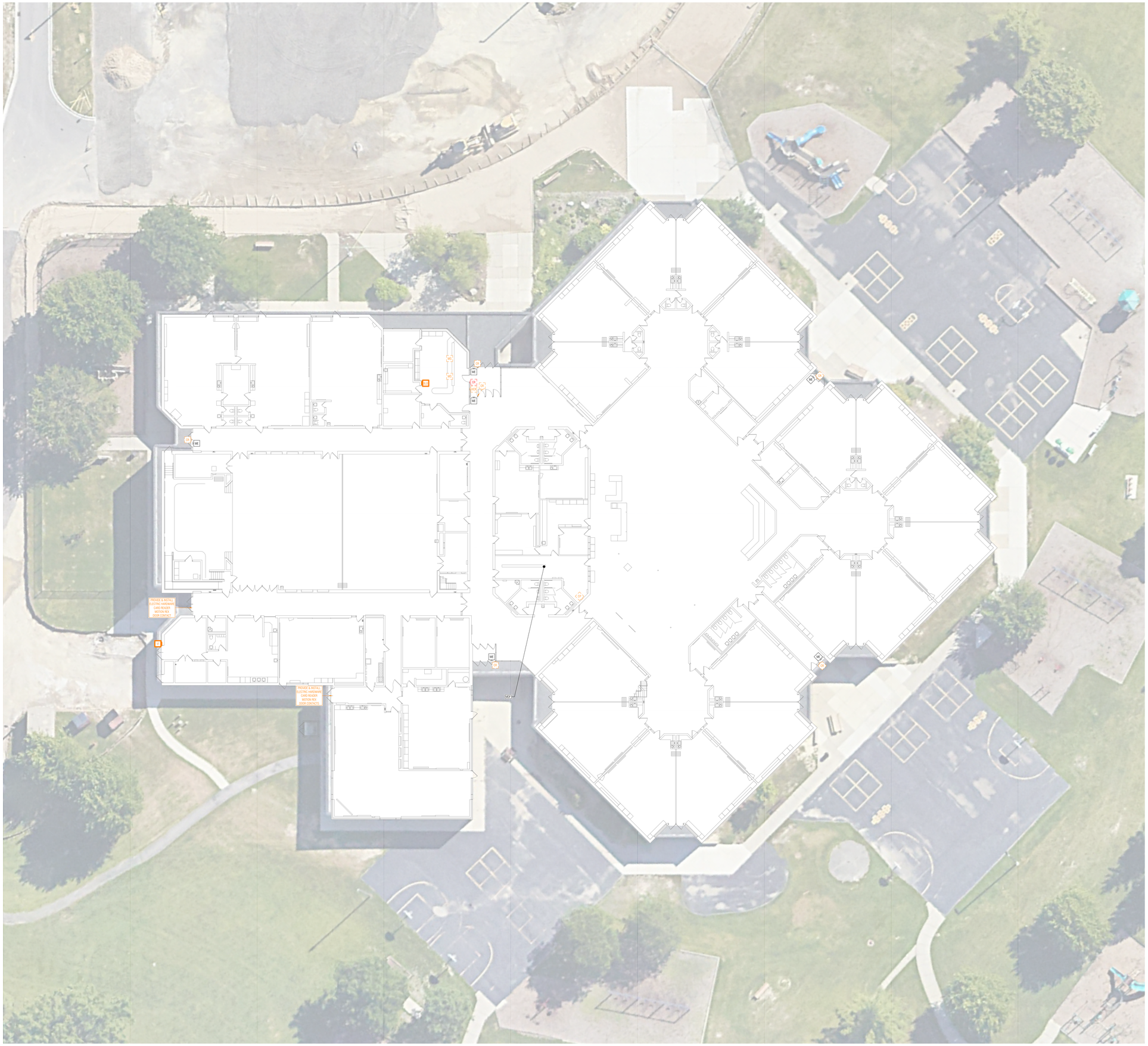
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- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, ORANGE - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, ORANGE - NEW HARDWARE AND/OR CABLE

HARDWARE:

- VI | VICR — VIDEO INTERCOM | VIDEO INTERCOM WITH INTEGRATED CARD READER
- CR — CARD READER
- DC — DOOR CONTACT
- ME — MOTION REQUEST TO EXIT DEVICE
- MS — MASTER STATION: VIDEO INTERCOM, DOOR RELEASE BUTTON(S), LOCK-DOWN BUTTON(S)
- VIM — VIDEO INTERCOM MASTER STATION
- CP — CONTROL PANEL

VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.

Barton Malow

Barton Malow Builders
26500 American Drive
Southfield, MI 48034

248.436.5000
www.bartonmalow.com

Owner:

TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
BIDS	07/07/2025

Key Plan:

Native Page Size: 42" X 30"

Scale: 1/16" = 1'

0' 4' 8' 16' 32'

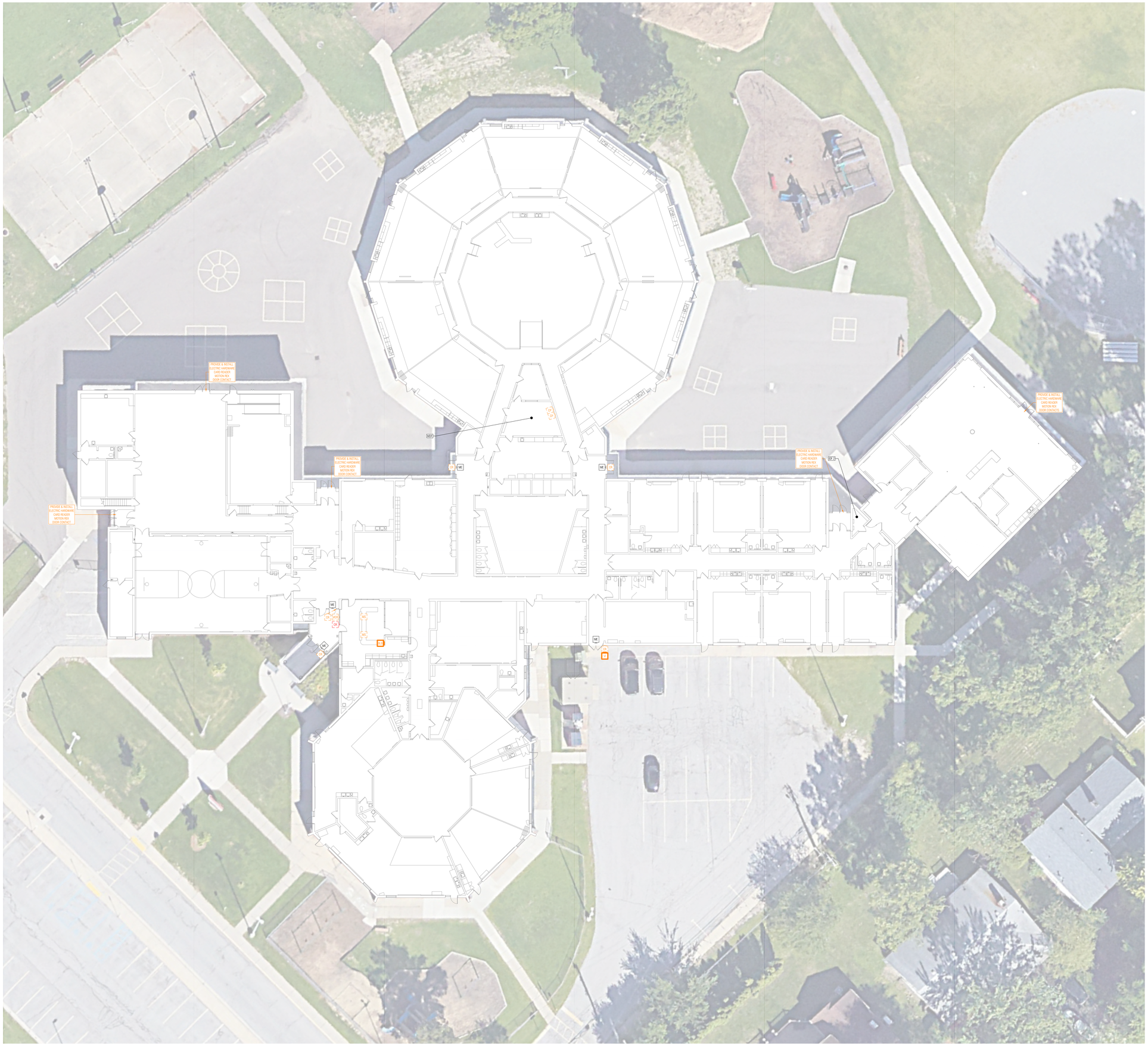
Bid Package T3
Access Control System
& Technology Upgrades

Hamilton
Elementary School

Composite
Access Control System

T6

N



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ACCESS CONTROL SYSTEM LEGEND:

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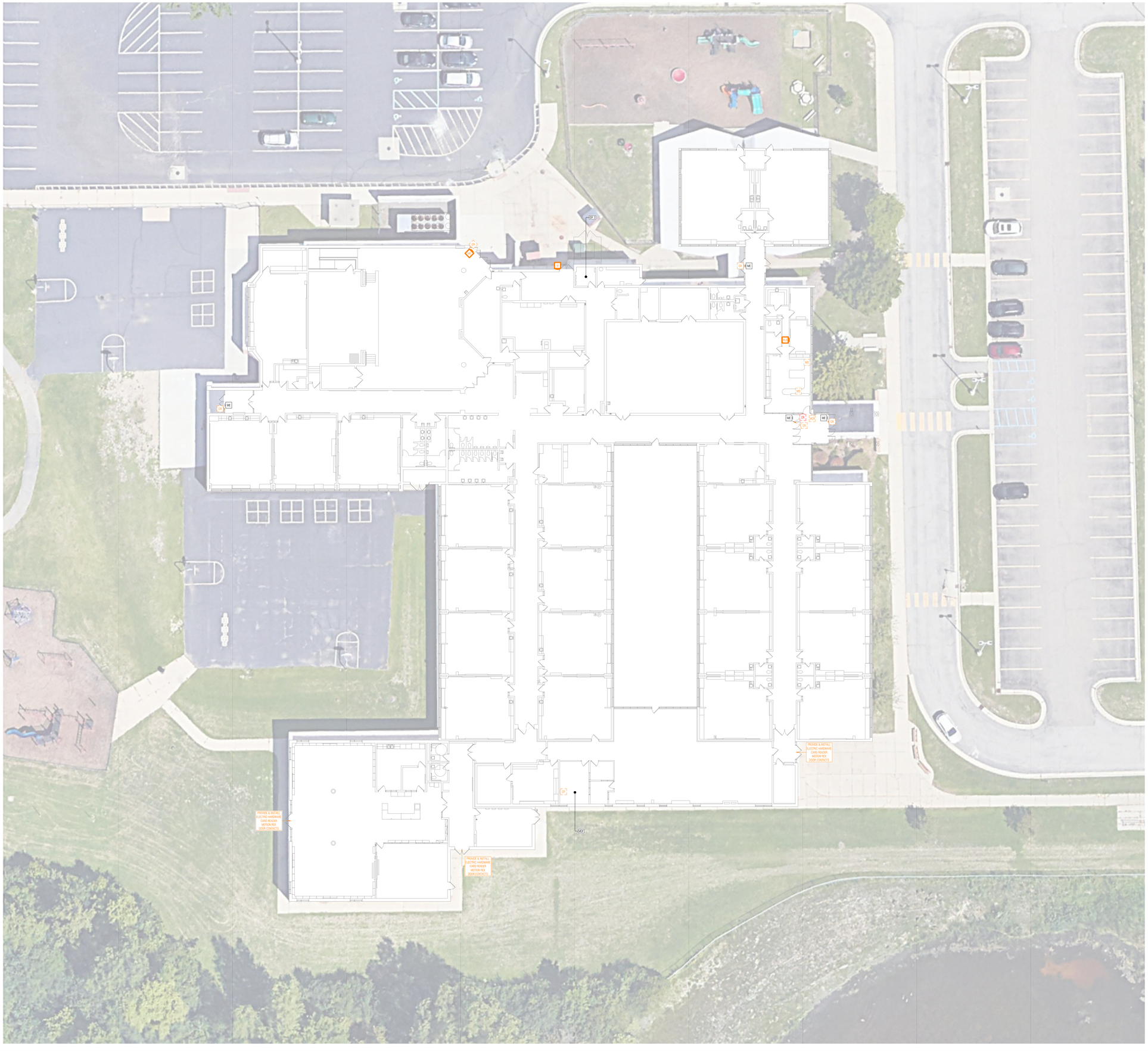
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Bid Package T3
Access Control System
& Technology Upgrades

Hill
Elementary School

Composite
Access Control System

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Leonard
Elementary School

Composite
Access Control System

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Barton Malow

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Owner:

TROY SCHOOL DISTRICT

Troy, Michigan

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Bid Package T3
Access Control System
& Technology Upgrades

Martell
Elementary School

Composite
Access Control System

N

T6

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ACCESS CONTROL SYSTEM LEGEND:

LINE STYLES

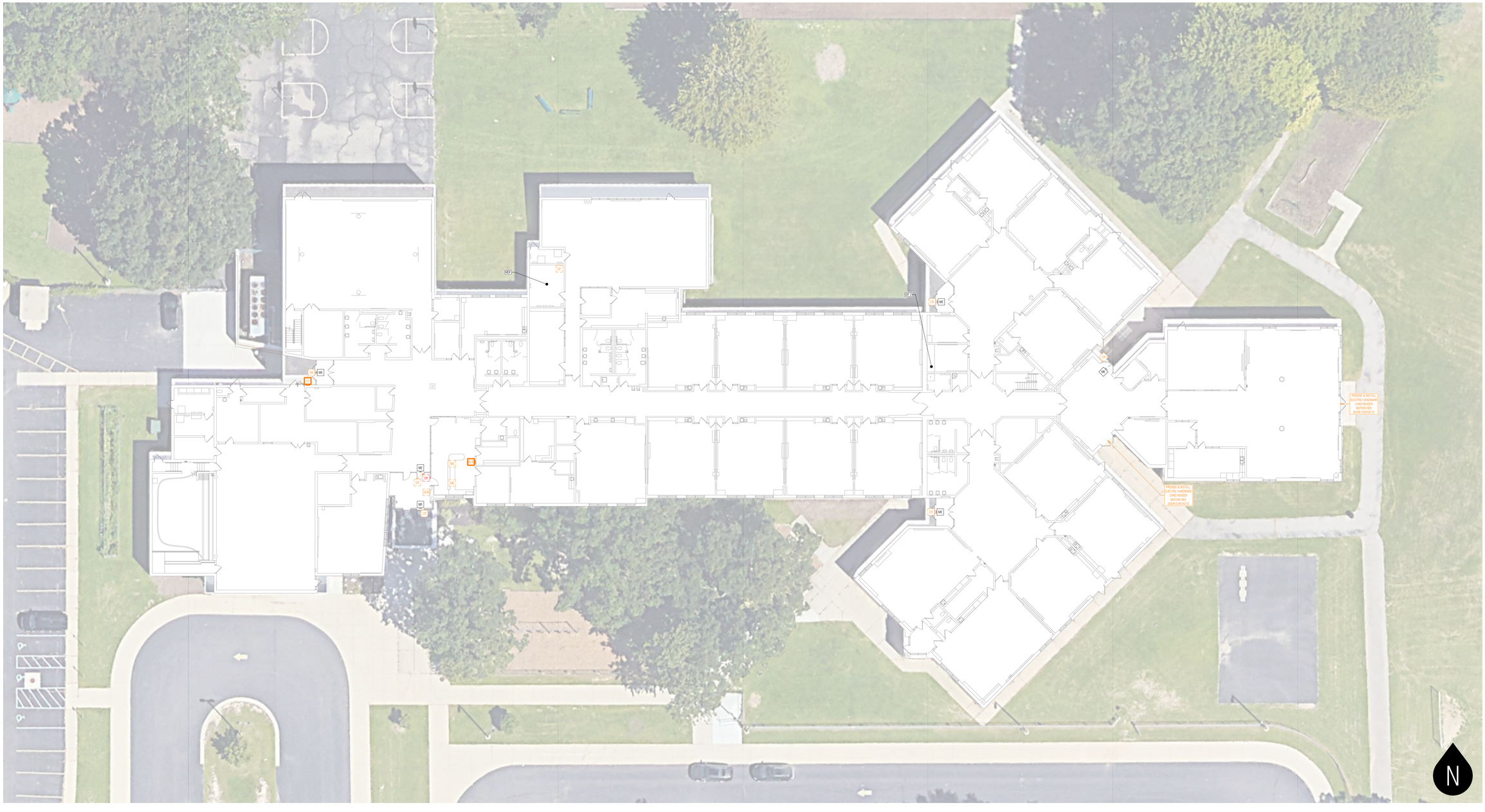
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Owner:

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Troy, Michigan

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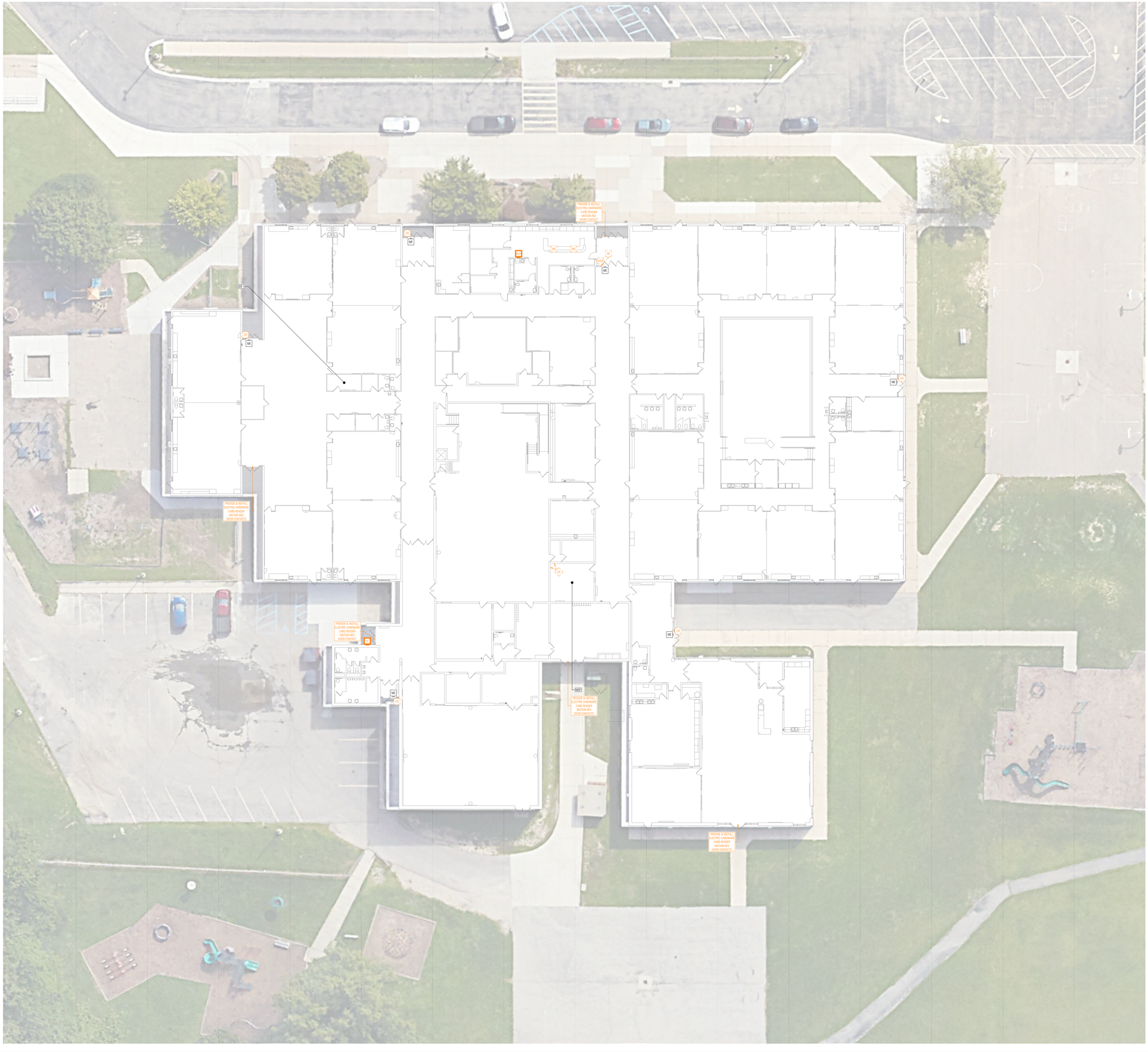
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Bid Package T3
Access Control System
& Technology Upgrades

Morse
Elementary School

Composite
Access Control System

T6



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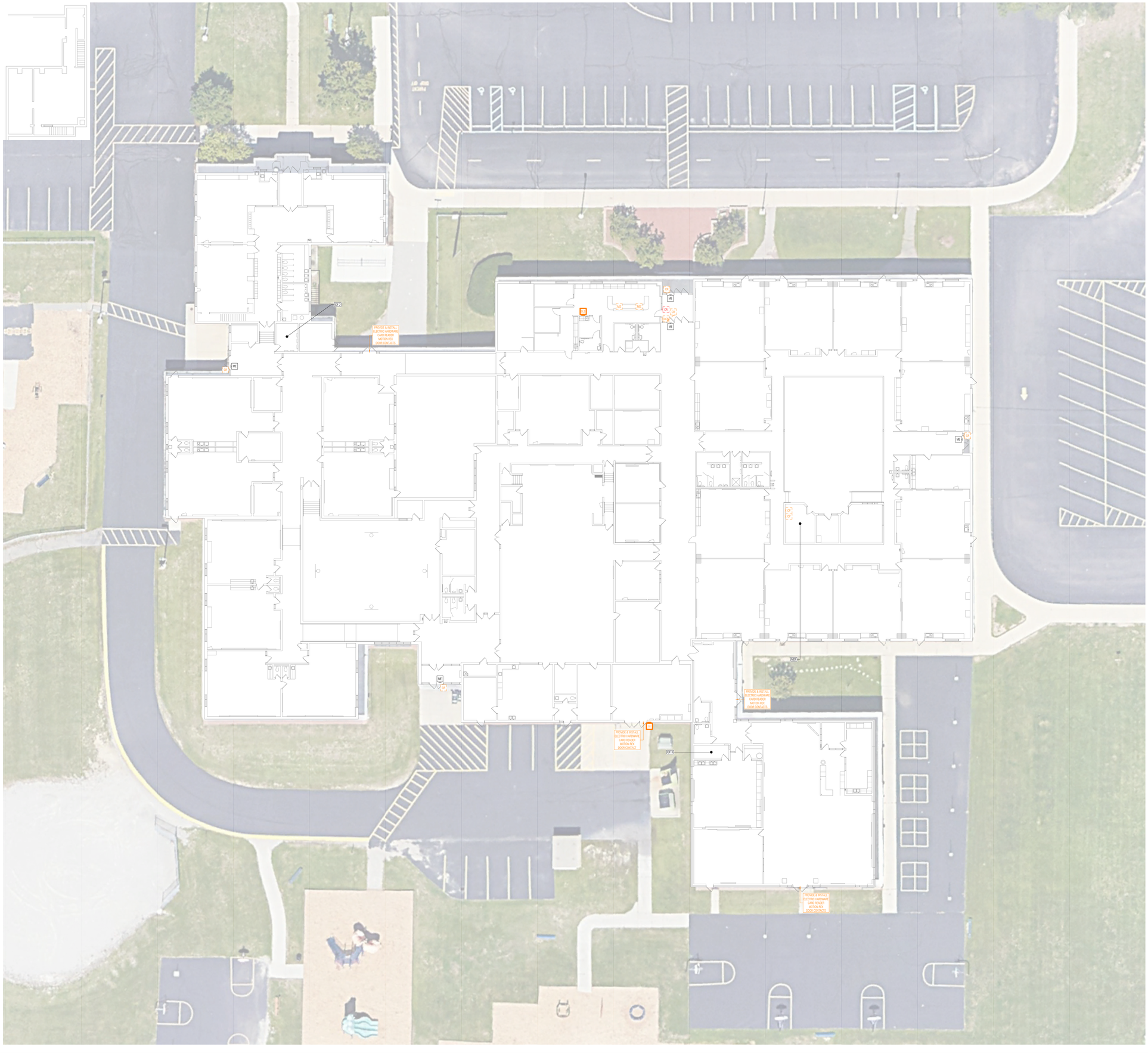
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Schroeder
Elementary School

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Public Address System

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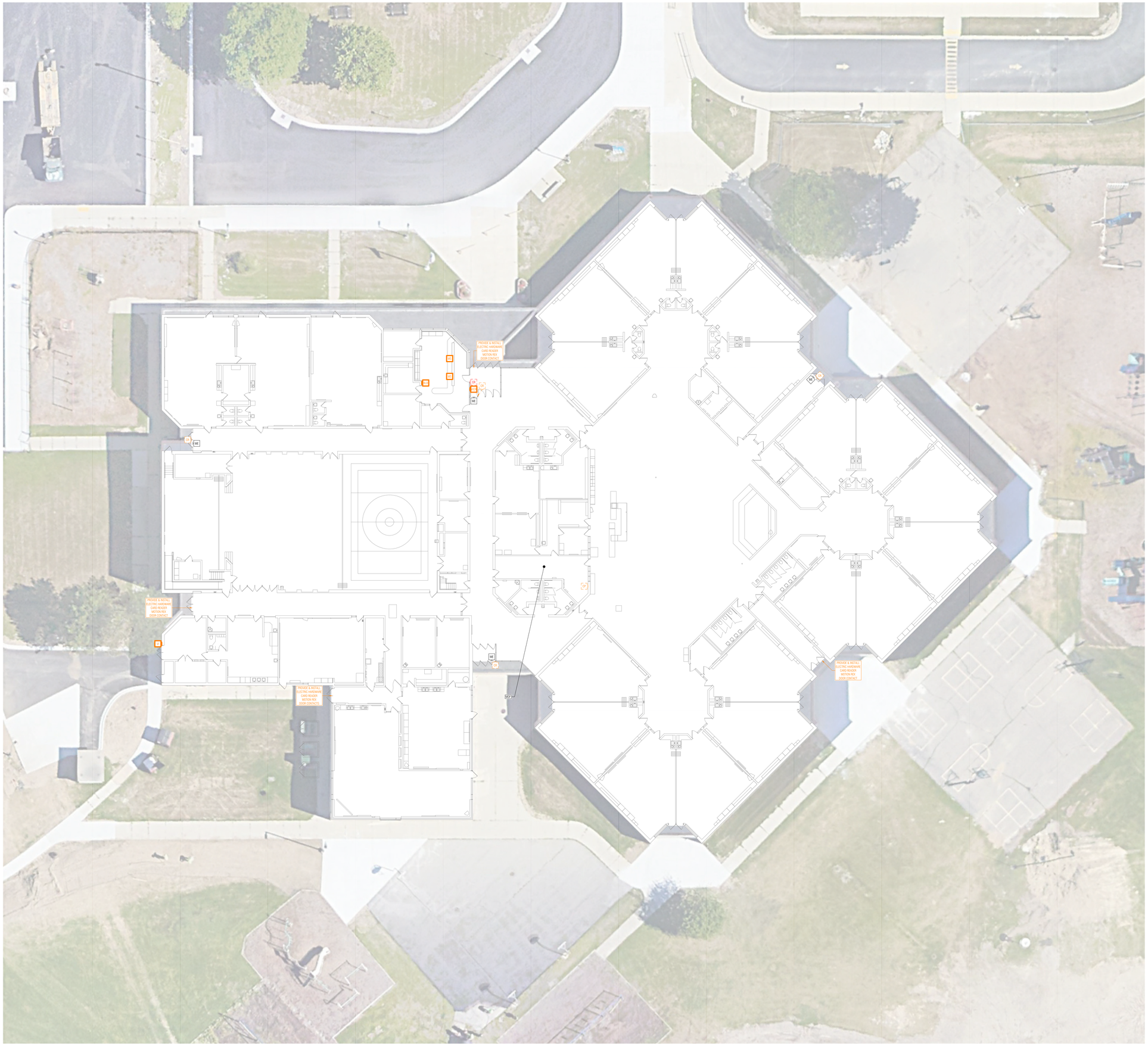
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Troy Union
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- THICK, SOLID, ORANGE - NEW HARDWARE AND/OR CABLE

HARDWARE:

- VI | VICR — VIDEO INTERCOM | VIDEO INTERCOM WITH INTEGRATED CARD READER
- CR — CARD READER
- DC — DOOR CONTACT
- ME — MOTION REQUEST TO EXIT DEVICE
- MS — MASTER STATION: VIDEO INTERCOM, DOOR RELEASE BUTTON(S), LOCK-DOWN BUTTON(S)
- VIM — VIDEO INTERCOM MASTER STATION
- CP — CONTROL PANEL

VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.

Barton Malow

Barton Malow Builders
26500 American Drive
Southfield, MI 48034

248.436.5000
www.bartonmalow.com

Owner:

TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
BIDS	07/07/2025

Key Plan:

Native Page Size: 42" X 30"

Scale: 1/16" = 1'

0' 4' 8' 16' 32'

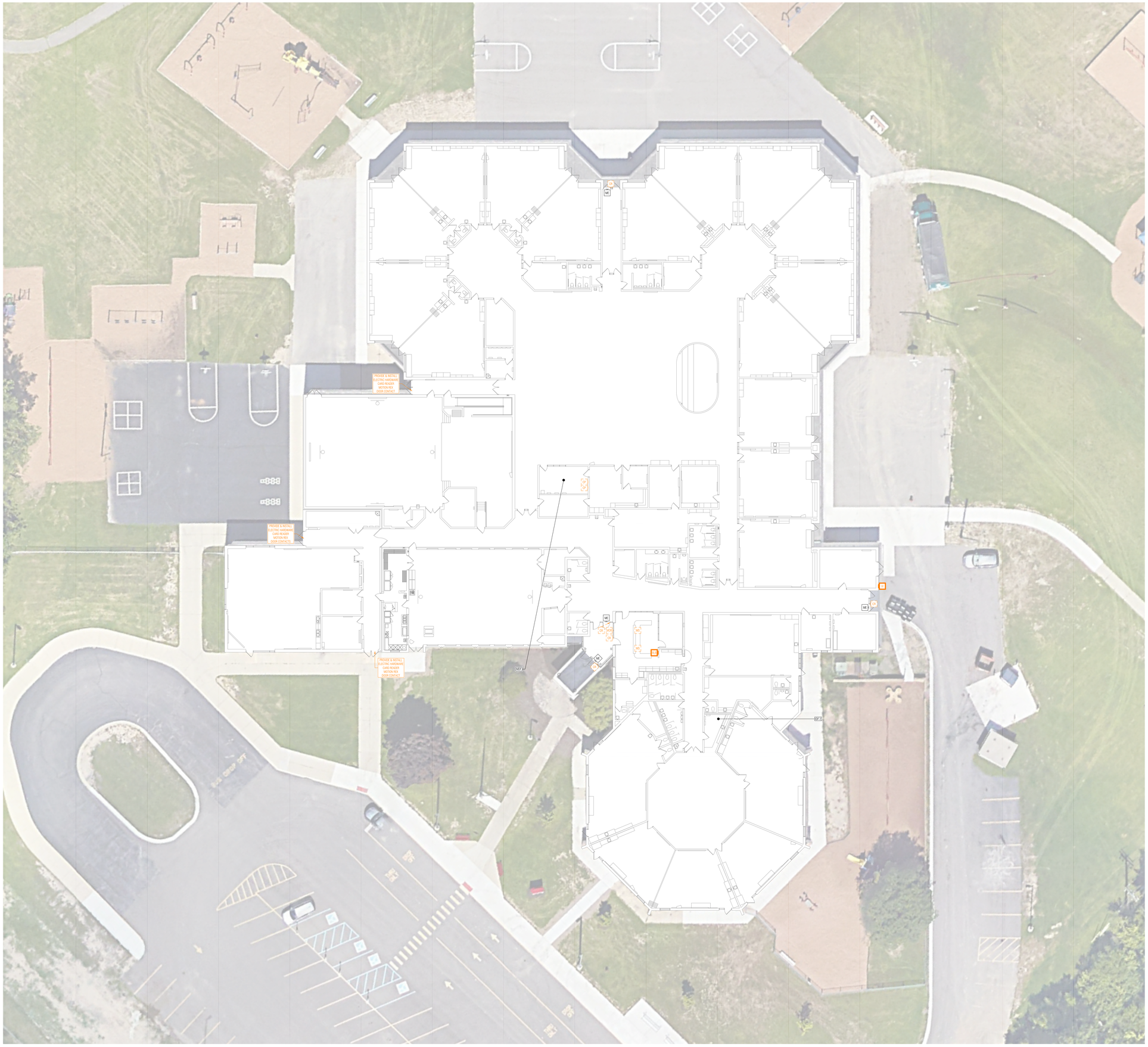
Bid Package T3
Access Control System
& Technology Upgrades

Wass
Elementary School

Composite
Access Control System

T6

N



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ACCESS CONTROL SYSTEM LEGEND:

LINE STYLES

- THIN, DASHED, RED - DEMO EXISTING
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, ORANGE - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
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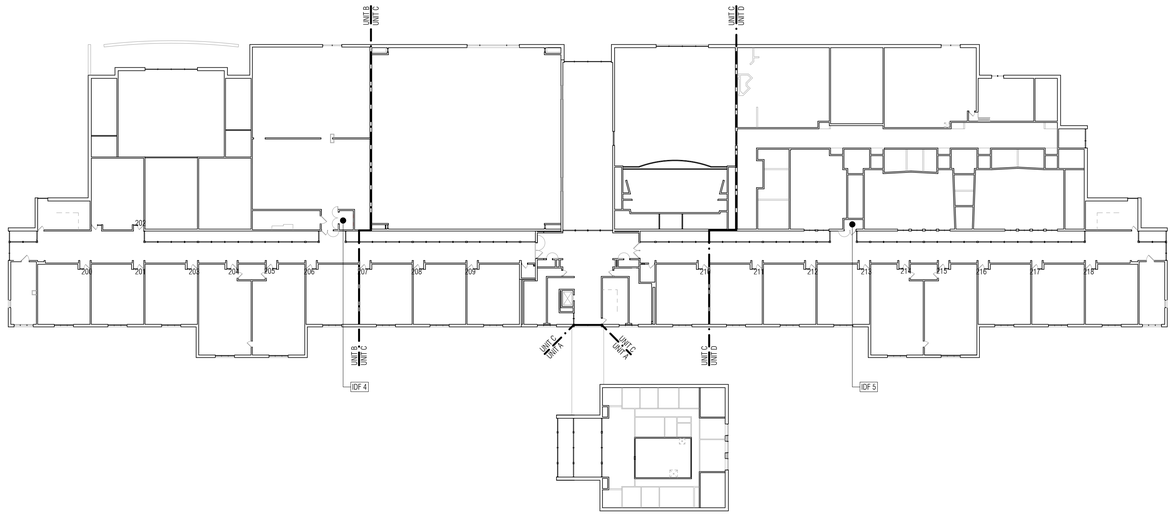
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Bid Package T3
Access Control System
& Technology Upgrades

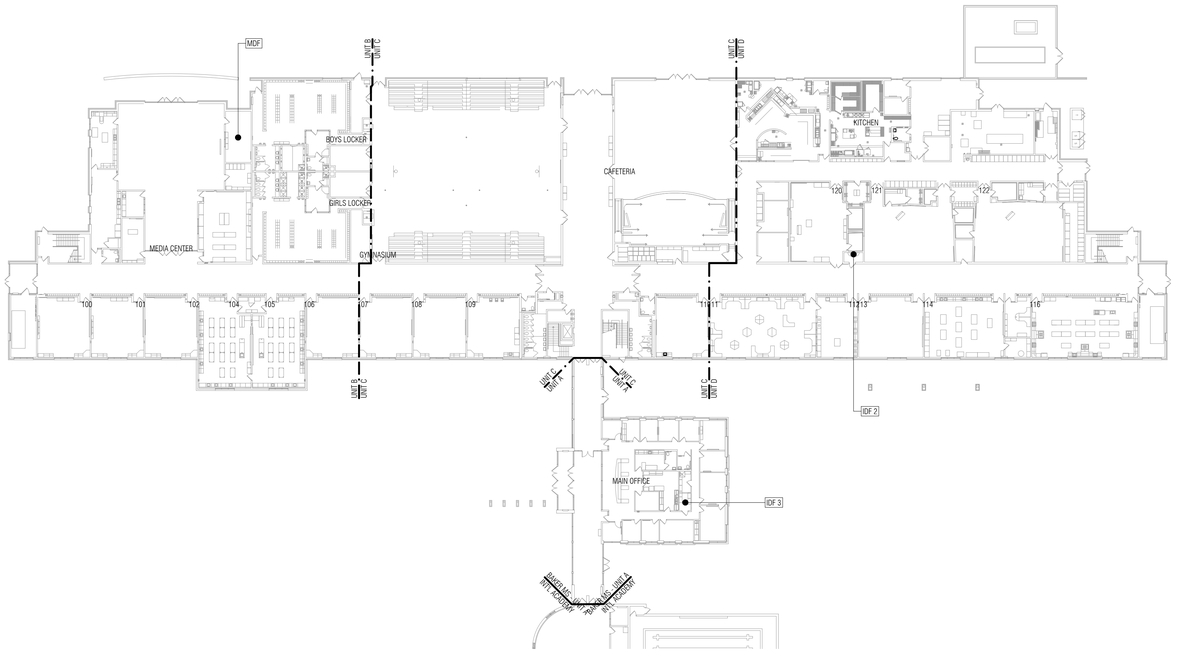
Wattles
Elementary School

Composite
Access Control System

T6



2nd Floor



1st Floor

Barton Malow

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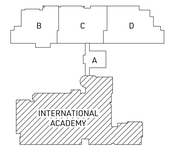
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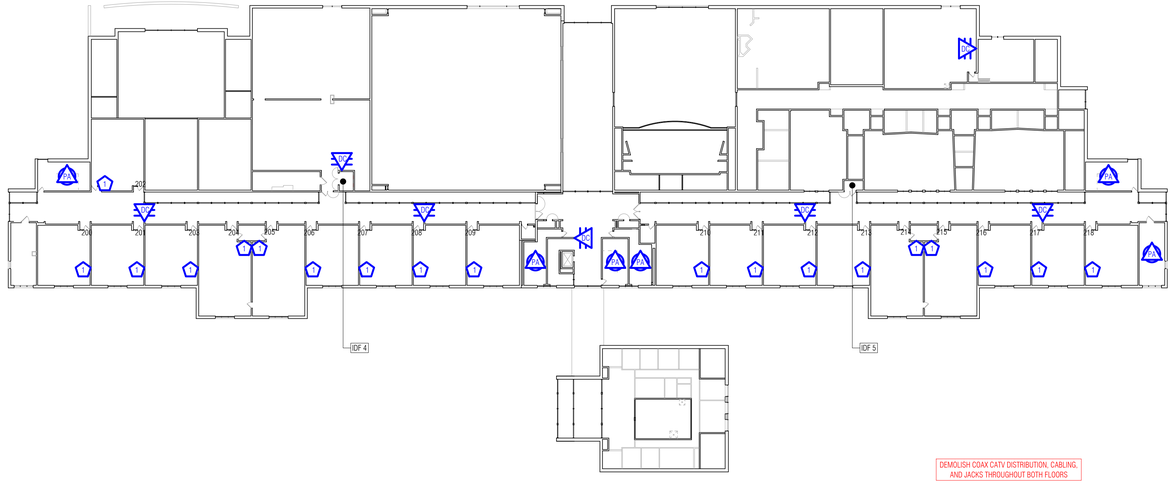
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Baker Middle School

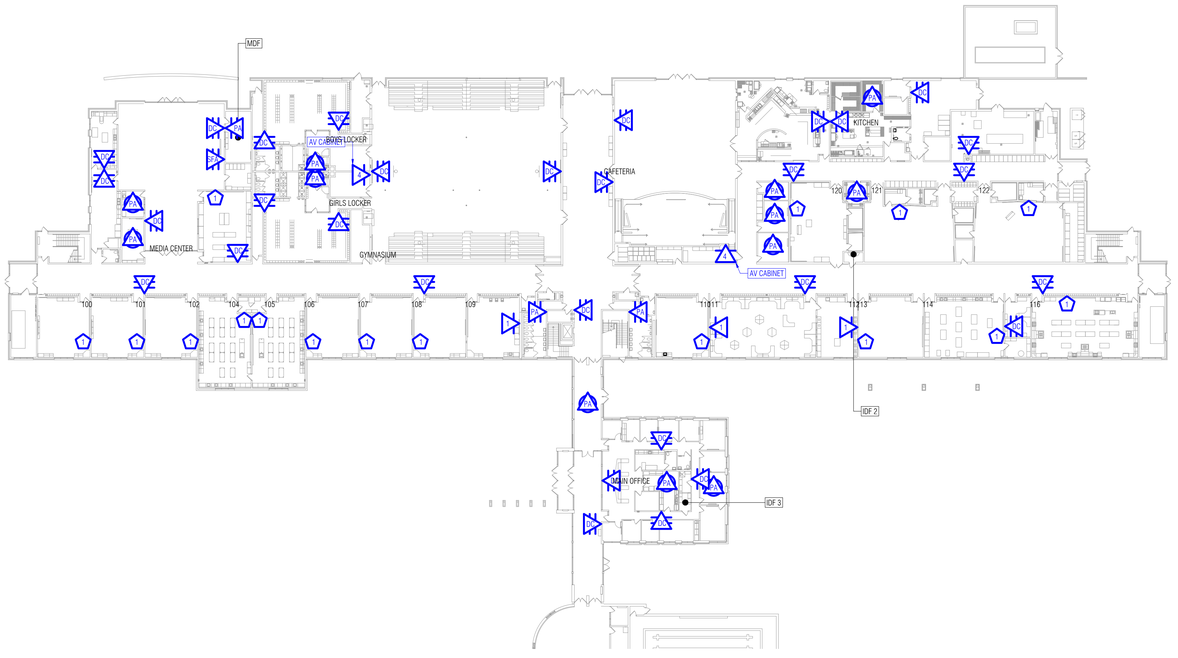
1st & 2nd Floor Composite
Existing Floor Plan

T1

N



2nd Floor



1st Floor

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STRUCTURED CABLING LEGEND:

CABLING OUTLET / WALL PLATE

LOCATED IN FLOOR BOX

LOCATED ON WALL, LOW HEIGHT (0'-36" AFF)

LOCATED ON WALL, MID HEIGHT (36'-84" AFF)

LOCATED ON WALL, HIGH HEIGHT (84'+ AFF)

LOCATED AT CEILING

OUTLET / PLATE ABBREVIATIONS

#	NUMBER OF DATA DROPS
AP	WIRELESS ACCESS POINT LOCATION, INCLUDE 1 DATA DROP
ATV	APPLE TV DEVICE LOCATION, INCLUDE 1 DATA DROP
DC	DIGITAL CLOCK LOCATION, INCLUDE 1 DATA DROP
PA	PUBLIC ADDRES SPEAKER LOCATION, INCLUDE 1 DATA DROP
PS	PULL STATION LOCATION, INCLUDE 1 DATA DROP
SFA	SOUNDFIELD AMPLIFIER LOCATION, INCLUDE 1 DATA DROP
WP	WALL PHONE LOCATION, INCLUDE 1 DATA DROP & WALL PHONE PLATE
VS	VIDEO SURVEILLANCE CAMERA LOCATION, INCLUDE 1 DATA DROP

HARDWARE

WIRELESS ACCESS POINT, CEILING | WALL MOUNTED

TIME CLOCK

SHEET NOTE

WITHIN TECH TOWER, RELOCATE 1 DATA FROM LOW PLATE TO SOUNDFIELD AMPLIFIER LOCATED WITHIN.

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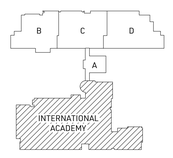
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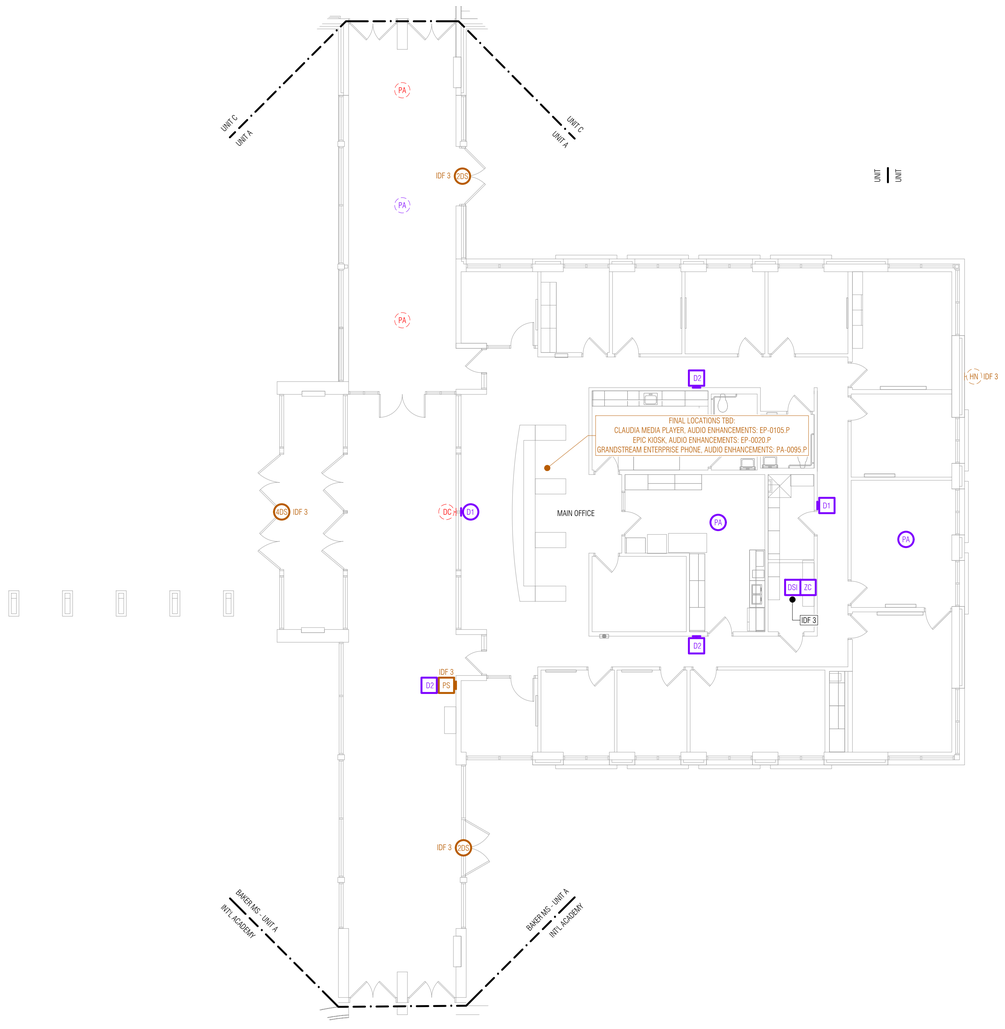
Bid Package T3
Access Control System
& Technology Upgrades

Baker
Middle School

1st & 2nd Floor Composite
Structured Cabling

T3

N



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AUDIOVISUAL & EPIC SYSTEMS LEGEND:

LINE STYLES
- THIN, DASHED, RED - DEMOLISH HARDWARE & CABLE TO SOURCE
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, COLOR-CODED - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, COLOR-CODED - NEW HARDWARE AND/OR CABLE

COLOR CODE
- GREEN - AUDIOVISUAL SYSTEM DEVICE
- PURPLE - IP EPIC DEVICE
- BROWN - ANALOG EPIC DEVICE

CABLING OUTLET / WALL PLATE
- LOCATED IN FLOOR BOX
- LOCATED ON WALL, LOW HEIGHT
- LOCATED ON WALL, MID HEIGHT
- LOCATED ON WALL, HIGH HEIGHT

OUTLET / PLATE ABBREVIATIONS
- A AUDIO PLATE: SEE SCHEMATIC
- V AUDIO AND / OR VIDEO PLATE: SEE SCHEMATIC
- AV LEGACY AUDIOVISUAL INTERFACE

HARDWARE
- SFA LEGACY SOUNDFIELD SYSTEM (BAKER MS ONLY)
- CRT CRT TV, MOUNT, ASSOCIATED PLATES, CONNECTORS AND AV CABLING (BAKER MS ONLY) COAX CABLE TV CABLING DEMO BY STRUCTURED CABLING CONTRACTOR
- FP FLAT PANEL DISPLAY, CEILING OR CART MOUNTED | WALL MOUNTED, MINIMUM SIZE INDICATED
- PJ PROJECTOR, CEILING MOUNTED
- ATV APPLE TV, TYPICALLY CEILING MOUNTED, USING OWNER PROVIDED BRACKET
- SFA XD SOUNDFIELD AMPLIFIER | XD RECEIVER, WALL MOUNTED AUDIO ENHANCEMENTS: MS-500 KIT UNLESS OTHERWISE NOTED
- ZC ZONE CONTROLLER & AMPLIFIER, RACK LOCATED, AUDIO ENHANCEMENTS: CZA-1300
- DS DOOR SENSOR INTERFACE, RACK LOCATED, BARIX: BARIONET 50
- DT IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSWDHD-MW
- DT IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPCSHD-DS-MB
- DT IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSIGNL-RWB
- PA IP PA SPEAKER, CEILING MOUNTED, ADVANCED NETWORK DEVICES: IPSCM-RMc INCLUDE BACKBOX FOR WALL MOUNT AND HARD CEILING APPLICATIONS
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- SF SF SOUNDFIELD SPEAKER, CEILING | WALL MOUNTED
- PS PULL STATION (EMERGENCY BUTTON), WALL MOUNTED, AUDIO ENHANCEMENT: WPA-705
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- HN PAGING HORN, WALL MOUNTED, AUDIO ENHANCEMENTS: SP-1091, TAP 15 WATTS

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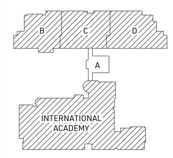
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Bid Package T3
Access Control System
& Technology Upgrades

Baker
Middle School

1st Floor Unit A
Audiovisual System
EPIC System

T5.1A



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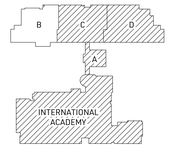
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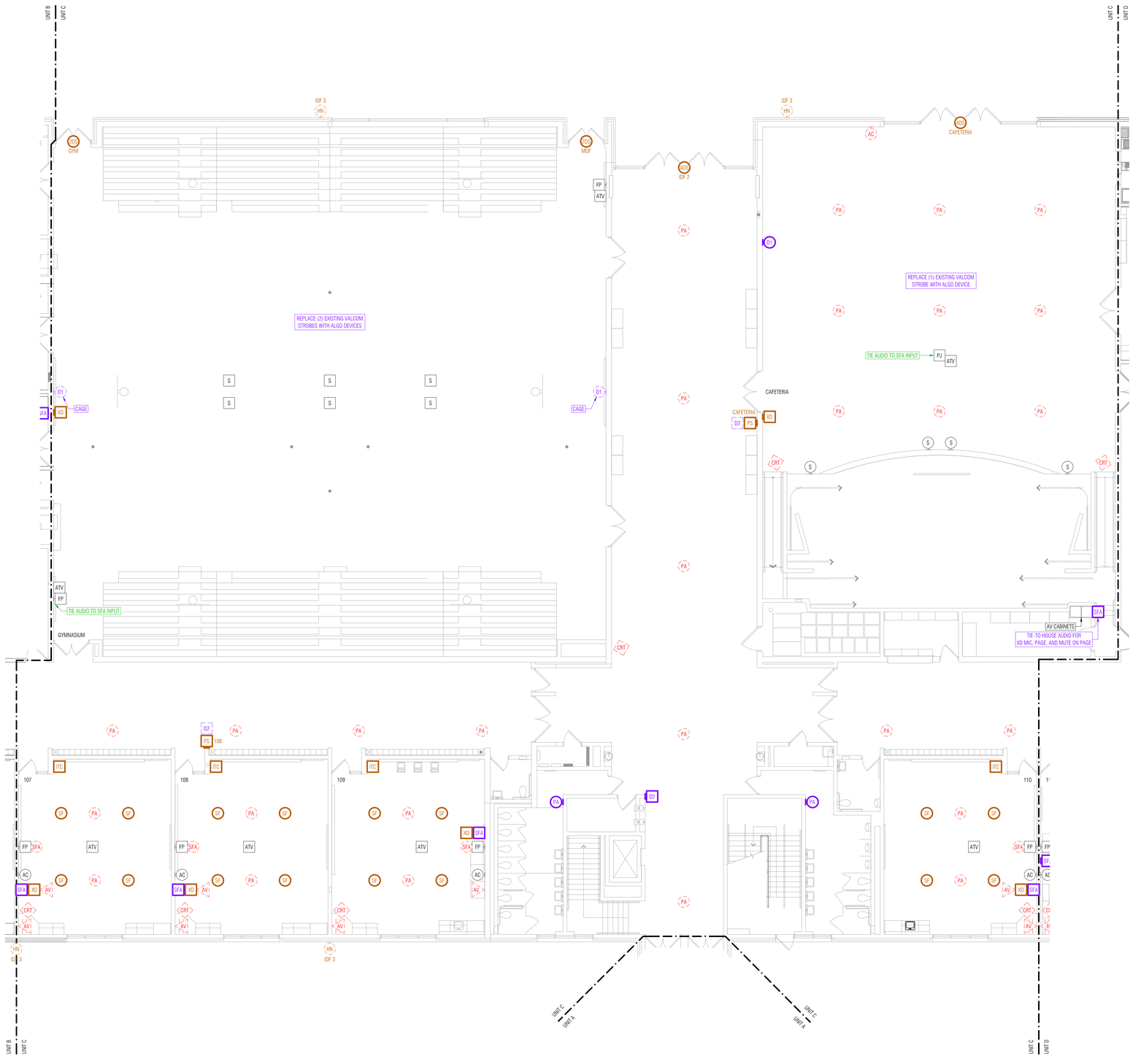
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Baker
Middle School

1st Floor Unit B
Audiovisual System
EPIC System

T5.1B



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3. FIELD VERIFY LOCATIONS, CONDITIONS AND LENGTHS PRIOR TO INSTALLATION.
4. CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN PENETRATIONS, SLEEVES, AND CORES THROUGH ALL WALLS AND FLOORS. ALL SLEEVES SHALL HAVE NYLON BUSHINGS.
5. CONTRACTOR SHALL PROVIDE FIRESTOPPING ON PENETRATIONS PASSING THROUGH WALLS AND FLOORS IN WHICH THEY WORK.
6. CONTRACTOR SHALL COORDINATE TELECOMMUNICATION ROOM LAYOUTS WITH BARTON MALOW AND ALL IMPACTED CONTRACTORS PRIOR TO INSTALLATION.
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AUDIOVISUAL & EPIC SYSTEMS LEGEND:

LINE STYLES
- THIN, DASHED, RED - DEMOLISH HARDWARE & CABLE TO SOURCE
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, COLOR-CODED - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, COLOR-CODED - NEW HARDWARE AND/OR CABLE

COLOR CODE
- GREEN - AUDIOVISUAL SYSTEM DEVICE
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CABLING OUTLET / WALL PLATE
- LOCATED IN FLOOR BOX
- LOCATED ON WALL, LOW HEIGHT
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OUTLET / PLATE ABBREVIATIONS
- A AUDIO PLATE: SEE SCHEMATIC
- V AUDIO AND / OR VIDEO PLATE: SEE SCHEMATIC
- AV LEGACY AUDIOVISUAL INTERFACE

HARDWARE
- SFA LEGACY SOUNDFIELD SYSTEM (BAKER MS ONLY)
- CRT CRT TV, MOUNT, ASSOCIATED PLATES, CONNECTORS AND AV CABLING (BAKER MS ONLY) COAX CABLE TV CABLING DEMO BY STRUCTURED CABLING CONTRACTOR
- FP FLAT PANEL DISPLAY, CEILING OR CART MOUNTED | WALL MOUNTED, MINIMUM SIZE INDICATED
- PJ PROJECTOR, CEILING MOUNTED
- ATV APPLE TV, TYPICALLY CEILING MOUNTED, USING OWNER PROVIDED BRACKET
- SFA XD SOUNDFIELD AMPLIFIER | XD RECEIVER, WALL MOUNTED AUDIO ENHANCEMENTS: MS-500 KIT UNLESS OTHERWISE NOTED
- ZC ZONE CONTROLLER & AMPLIFIER, RACK LOCATED, AUDIO ENHANCEMENTS: CZA-1300
- DSI DOOR SENSOR INTERFACE, RACK LOCATED, BARIX: BARIONET 50
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3. INSTALL NEW SOUNDFIELD AMPLIFIER WITHIN TEACHER CHASE.
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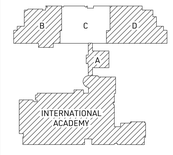
Troy School District

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
BIDS	07/07/2025

Key Plan:



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Bid Package T3
Access Control System
& Technology Upgrades

Baker
Middle School

1st Floor Unit C
Audiovisual System
EPIC System

T5.1C

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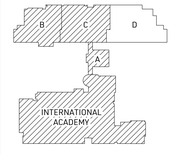
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Middle School

1st Floor Unit D
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EPIC System

T5.1D



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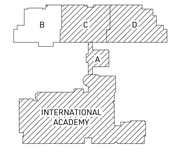
TROY SCHOOL DISTRICT

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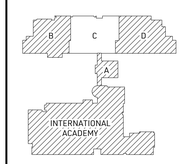
Troy School District

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
BIDS	07/07/2025

Key Plan:



Native Page Size: 42" X 30"

Scale: 1/8" = 1'
0' 2' 4' 8' 16'

Bid Package T3
Access Control System
& Technology Upgrades

Baker
Middle School

2nd Floor Unit C
Audiovisual System
EPIC System

T5.2C



GENERAL TECHNOLOGY NOTES:

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AUDIOVISUAL & EPIC SYSTEMS LEGEND:

LINE STYLES
- THIN, DASHED, RED - DEMOLISH HARDWARE & CABLE TO SOURCE
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, COLOR-CODED - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, COLOR-CODED - NEW HARDWARE AND/OR CABLE

COLOR CODE
- GREEN - AUDIOVISUAL SYSTEM DEVICE
- PURPLE - IP EPIC DEVICE
- BROWN - ANALOG EPIC DEVICE

CABLING OUTLET / WALL PLATE
- LOCATED IN FLOOR BOX
- LOCATED ON WALL, LOW HEIGHT
- LOCATED ON WALL, MID HEIGHT
- LOCATED ON WALL, HIGH HEIGHT

OUTLET / PLATE ABBREVIATIONS
- A AUDIO PLATE: SEE SCHEMATIC
- V AUDIO AND / OR VIDEO PLATE: SEE SCHEMATIC
- AV LEGACY AUDIOVISUAL INTERFACE

HARDWARE
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- CRT CRT TV, MOUNT, ASSOCIATED PLATES, CONNECTORS AND AV CABLING (BAKER MS ONLY)
  COAX CABLE TV CABLING DEMO BY STRUCTURED CABLING CONTRACTOR
- FP FP FLAT PANEL DISPLAY, CEILING OR CART MOUNTED | WALL MOUNTED, MINIMUM SIZE INDICATED
- PJ PROJECTOR, CEILING MOUNTED
- ATV APPLE TV, TYPICALLY CEILING MOUNTED, USING OWNER PROVIDED BRACKET
- SFA XD SOUNDFIELD AMPLIFIER | XD RECEIVER, WALL MOUNTED
  AUDIO ENHANCEMENTS: MS-500 KIT UNLESS OTHERWISE NOTED
- AC ZONE CONTROLLER & AMPLIFIER, RACK LOCATED, AUDIO ENHANCEMENTS: CZA-1300
- DS DOOR SENSOR INTERFACE, RACK LOCATED, BARIX: BARIONET 50
- IPC IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSWDHD-MW
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AUDIOVISUAL SYSTEMS NEW PROJECT NOTES:

1. WHERE SHOWN, CABLE DEVICES TO LOCATIONS IDENTIFIED; DAISY-CHAIN 70V SPEAKERS/HORNS WITH COMMON HEAD END.

BAKER SPECIFIC PROJECT NOTES:

1. SALVAGE AUDIO ENHANCEMENTS BEAM SOUNDFIELD DEVICES; DEMO ALL OTHER LEGACY SOUNDFIELD SYSTEMS, EQUIPMENT, CABLING.
2. LEAVE-IN-PLACE LOCAL AUDIO SYSTEMS (i.e. MUSIC ROOMS).
3. INSTALL NEW SOUNDFIELD AMPLIFIER WITHIN TEACHER CHASE.
4. INSTALL NEW XD RECEIVER ON FACE OF TEACHER CHASE COVER.
5. TIE AUDIO FROM FLAT PANEL DISPLAY OR PROJECTOR INTO SOUNDFIELD AMPLIFIER.
6. PROVIDE SURFACE RACEWAY FOR ITC.
7. DEMOLISH ALL LEGACY AV CABLING AND CONNECTORS WHETHER SHOWN OR NOT. PROVIDE BLANK STAINLESS STEEL FACE PLATES TO COVER UNUSED BOXES.

N

Barton Malow

Barton Malow Builders
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248.436.5000
www.bartonmalow.com

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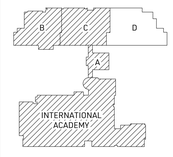
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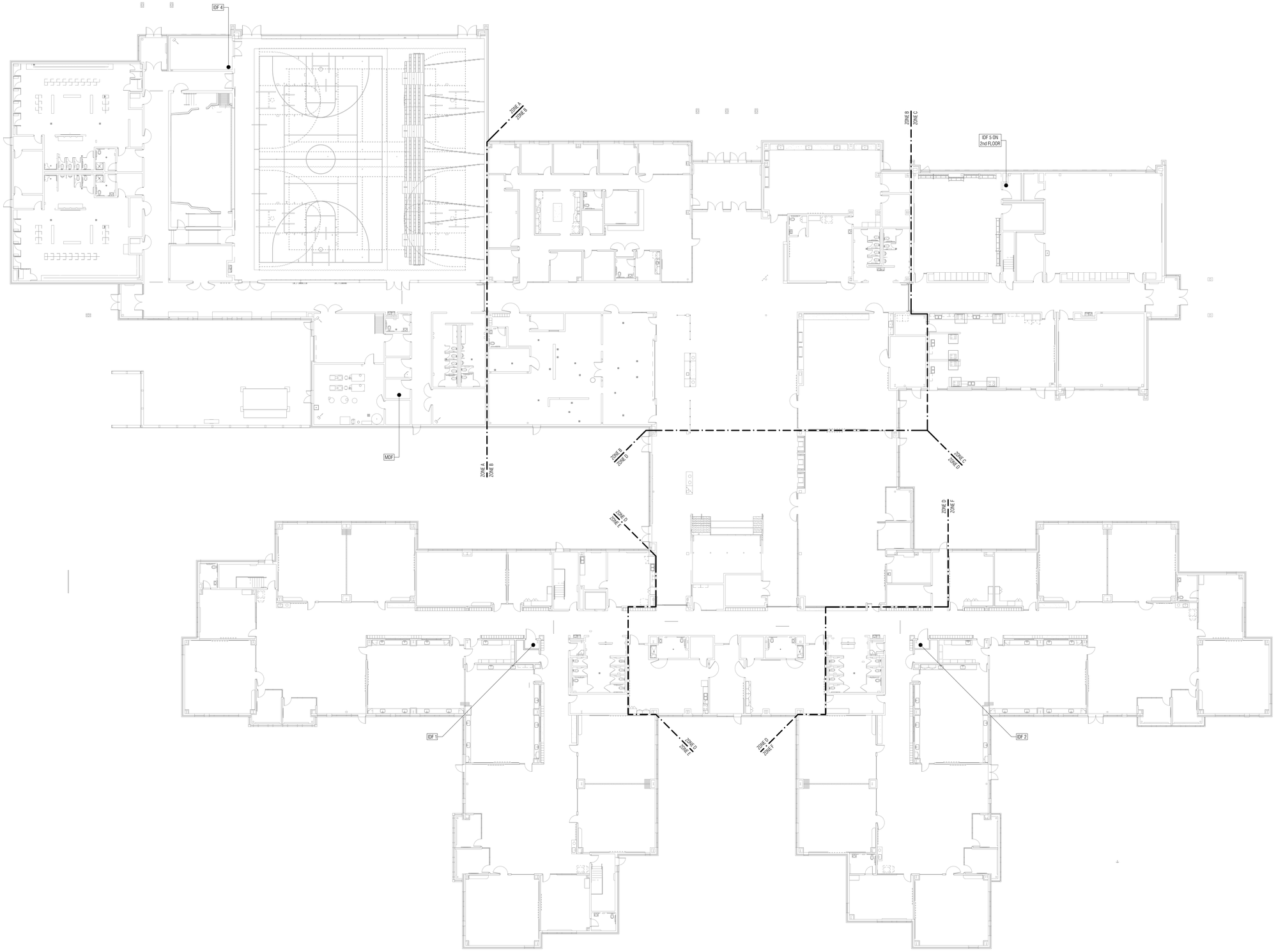
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& Technology Upgrades

Baker
Middle School

2nd Floor Unit D
Audiovisual System
EPIC System

T5.2D



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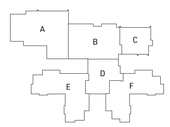
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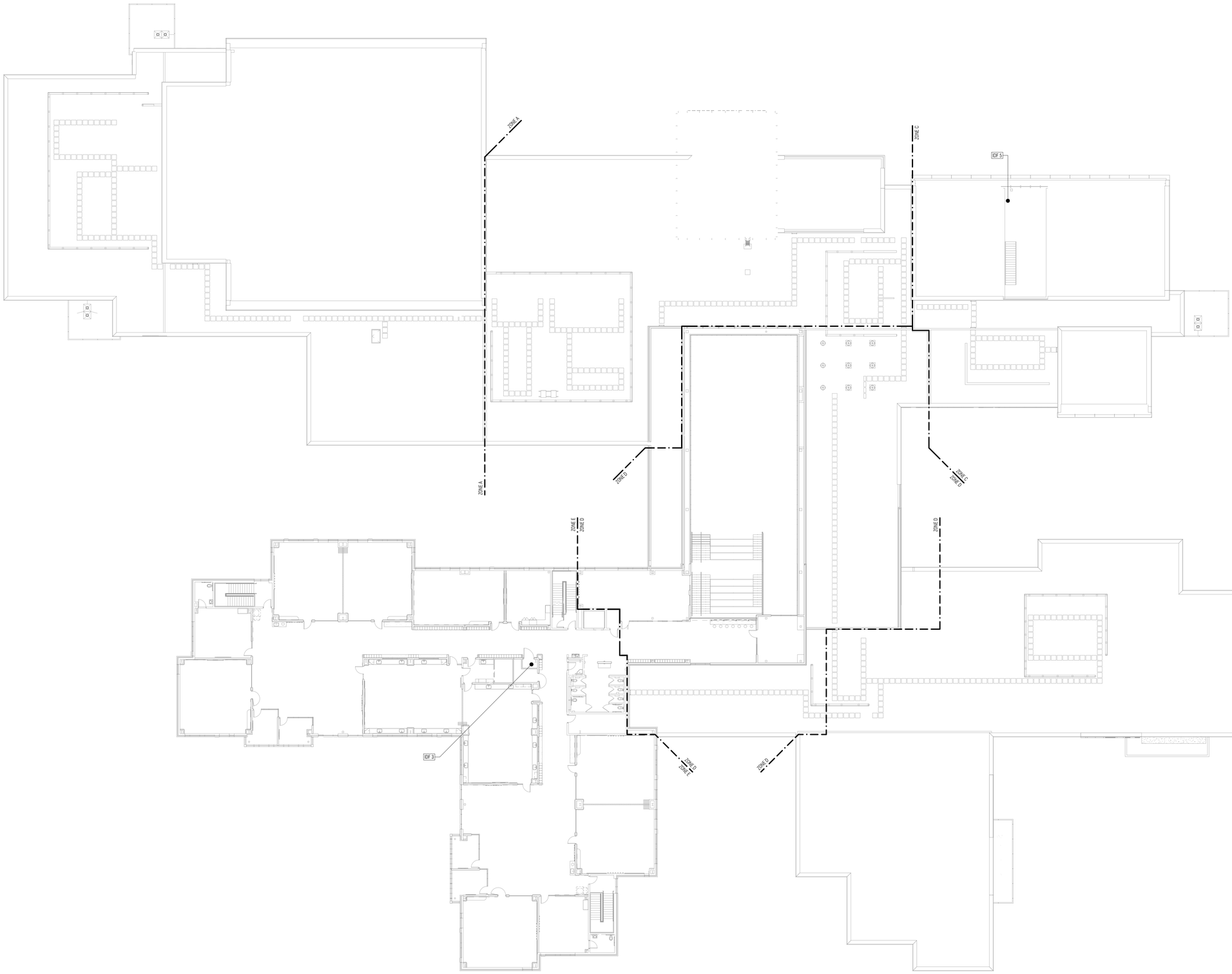
Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

1st Floor Composite
New Floor Plan

T1.1

N



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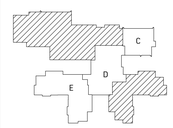
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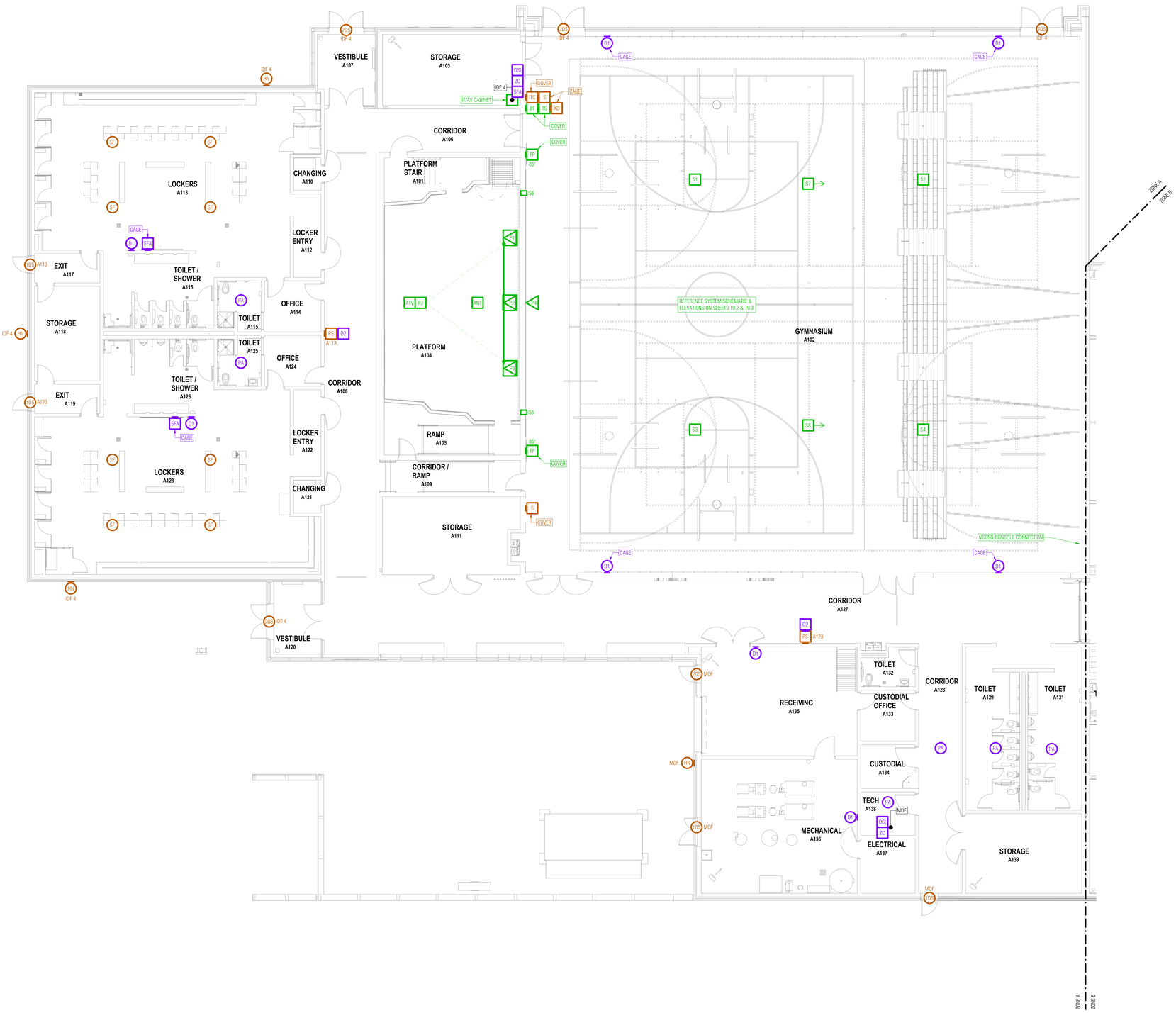
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Smith
Middle School

2nd Floor Composite
New Floor Plan

T1.2

N



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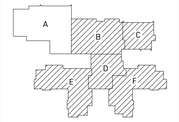
TROY SCHOOL DISTRICT

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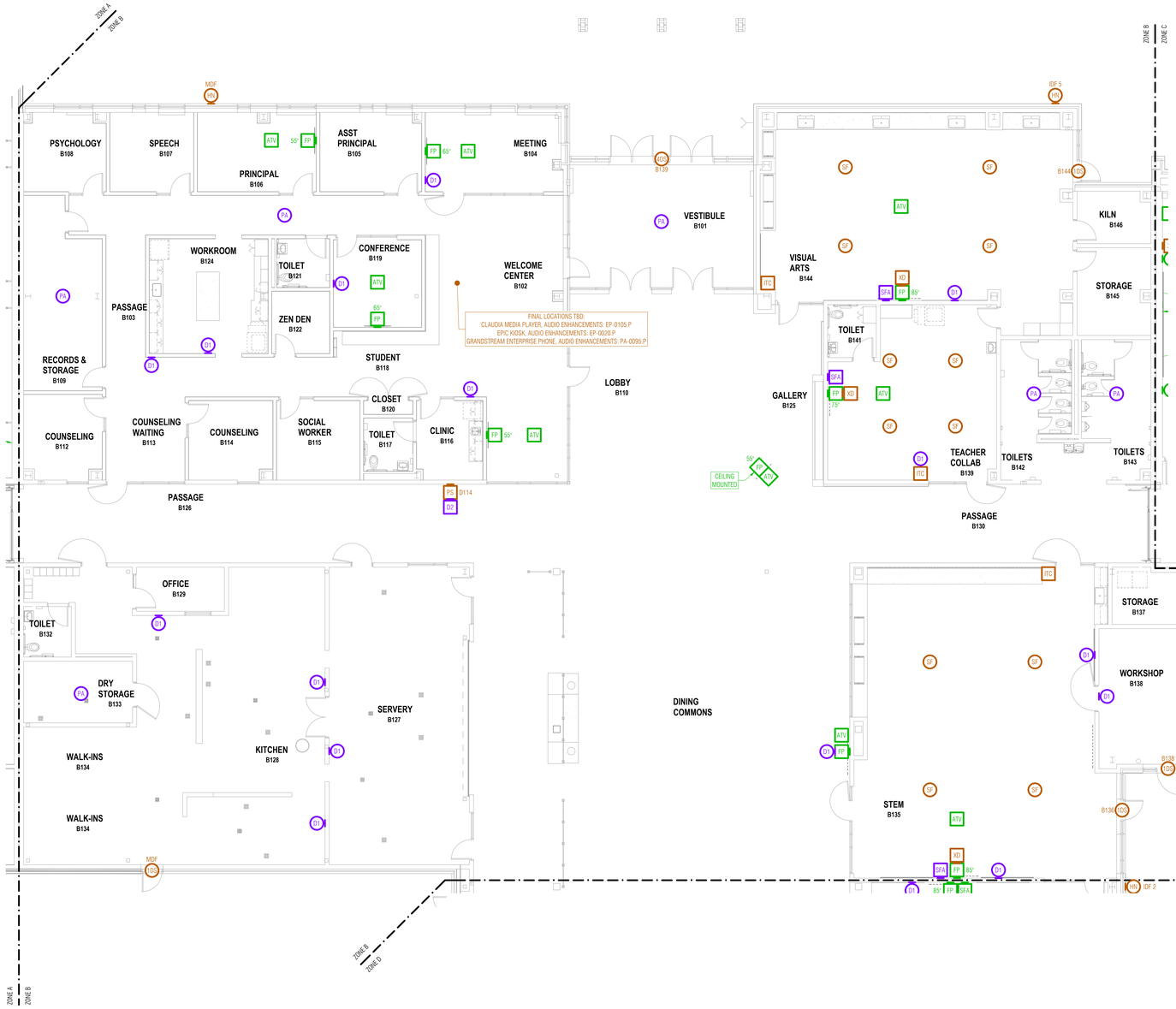
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Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

1st Floor Unit A
Audiovisual System
EPIC System

T5.1A



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SMITH SPECIFIC PROJECT NOTES:

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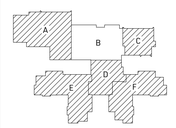
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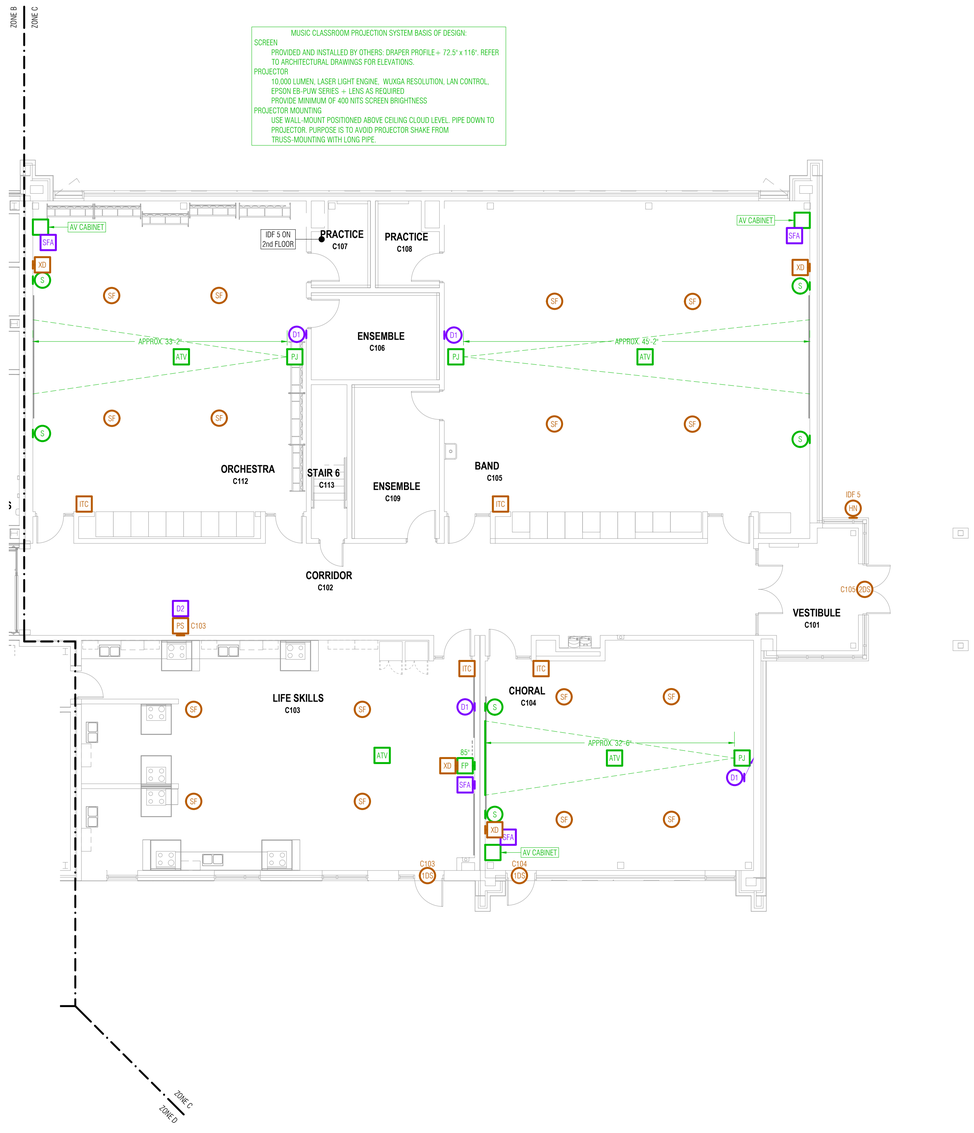
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Bid Package T3
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Smith
Middle School

1st Floor Unit B
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T5.1B



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- PURPLE - IP EPIC DEVICE
- BROWN - ANALOG EPIC DEVICE

CABLING OUTLET / WALL PLATE
- LOCATED IN FLOOR BOX
- LOCATED ON WALL, LOW HEIGHT
- LOCATED ON WALL, MID HEIGHT
- LOCATED ON WALL, HIGH HEIGHT

OUTLET / PLATE ABBREVIATIONS
- A AUDIO PLATE: SEE SCHEMATIC
- V AUDIO AND / OR VIDEO PLATE: SEE SCHEMATIC
- AV LEGACY AUDIOVISUAL INTERFACE

HARDWARE
- SFA LEGACY SOUNDFIELD SYSTEM (BAKER MS ONLY)
- CRT CRT TV, MOUNT, ASSOCIATED PLATES, CONNECTORS AND AV CABLING (BAKER MS ONLY)
  COAX CABLE TV CABLING DEMO BY STRUCTURED CABLING CONTRACTOR
- FP FP FLAT PANEL DISPLAY, CEILING OR CART MOUNTED | WALL MOUNTED, MINIMUM SIZE INDICATED
- PJ PROJECTOR, CEILING MOUNTED
- ATV APPLE TV, TYPICALLY CEILING MOUNTED, USING OWNER PROVIDED BRACKET
- SFA XD SOUNDFIELD AMPLIFIER | XD RECEIVER, WALL MOUNTED
  AUDIO ENHANCEMENTS: MS-500 KIT UNLESS OTHERWISE NOTED
- ZC ZONE CONTROLLER & AMPLIFIER, RACK LOCATED, AUDIO ENHANCEMENTS: CZA-1300
- DSI DOOR SENSOR INTERFACE, RACK LOCATED, BARIX: BARIONET 50
- D1 IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSWDHD-MW
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  INCLUDE BACKBOX FOR WALL MOUNT AND HARD CEILING APPLICATIONS
- ITC TOUCH CONTROLLER, AUDIO ENHANCEMENT: INTERACTIVE TOUCH CONTROLLER
- SF SF SOUNDFIELD SPEAKER, CEILING | WALL MOUNTED
- PS PULL STATION (EMERGENCY BUTTON), WALL MOUNTED, AUDIO ENHANCEMENT: WPA-705
- #DS DOOR SENSOR, AUDIO ENHANCEMENT: MAGNETIC DOOR SENSE SWITCH
  # INDICATES HOW MANY SENSORS WIRED TOGETHER AS SINGLE FEED
- HN PAGING HORN, WALL MOUNTED, AUDIO ENHANCEMENTS: SP-1091, TAP 15 WATTS

AUDIOVISUAL SYSTEMS NEW PROJECT NOTES:

1. WHERE SHOWN, CABLE DEVICES TO LOCATIONS IDENTIFIED; DAISY-CHAIN 70V SPEAKERS/HORNS WITH COMMON HEAD END.

SMITH SPECIFIC PROJECT NOTES:

1.

Barton Malow

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26500 American Drive
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Owner:

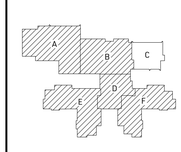
Troy School District

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
BIDS	07/07/2025

Key Plan:



Native Page Size: 42" X 30"

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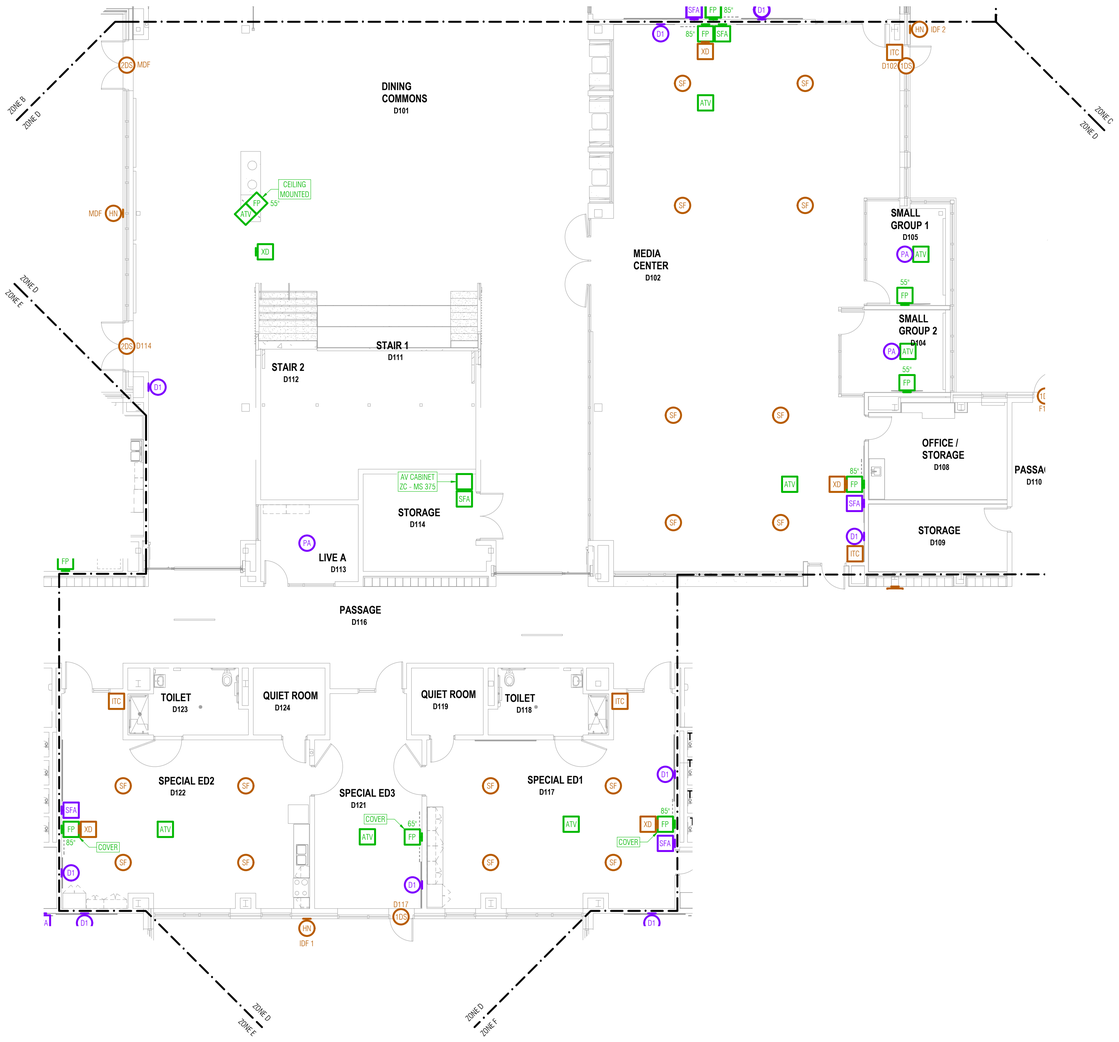
Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

1st Floor Unit C
Audiovisual System
EPIC System

N

T5.1C



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AUDIOVISUAL & EPIC SYSTEMS LEGEND:

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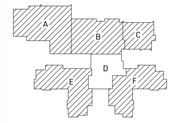
TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
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Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

1st Floor Unit D
Audiovisual System
EPIC System

T5.1D

N



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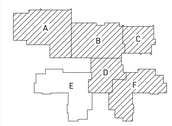
TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
BIDS	07/07/2025

Key Plan:



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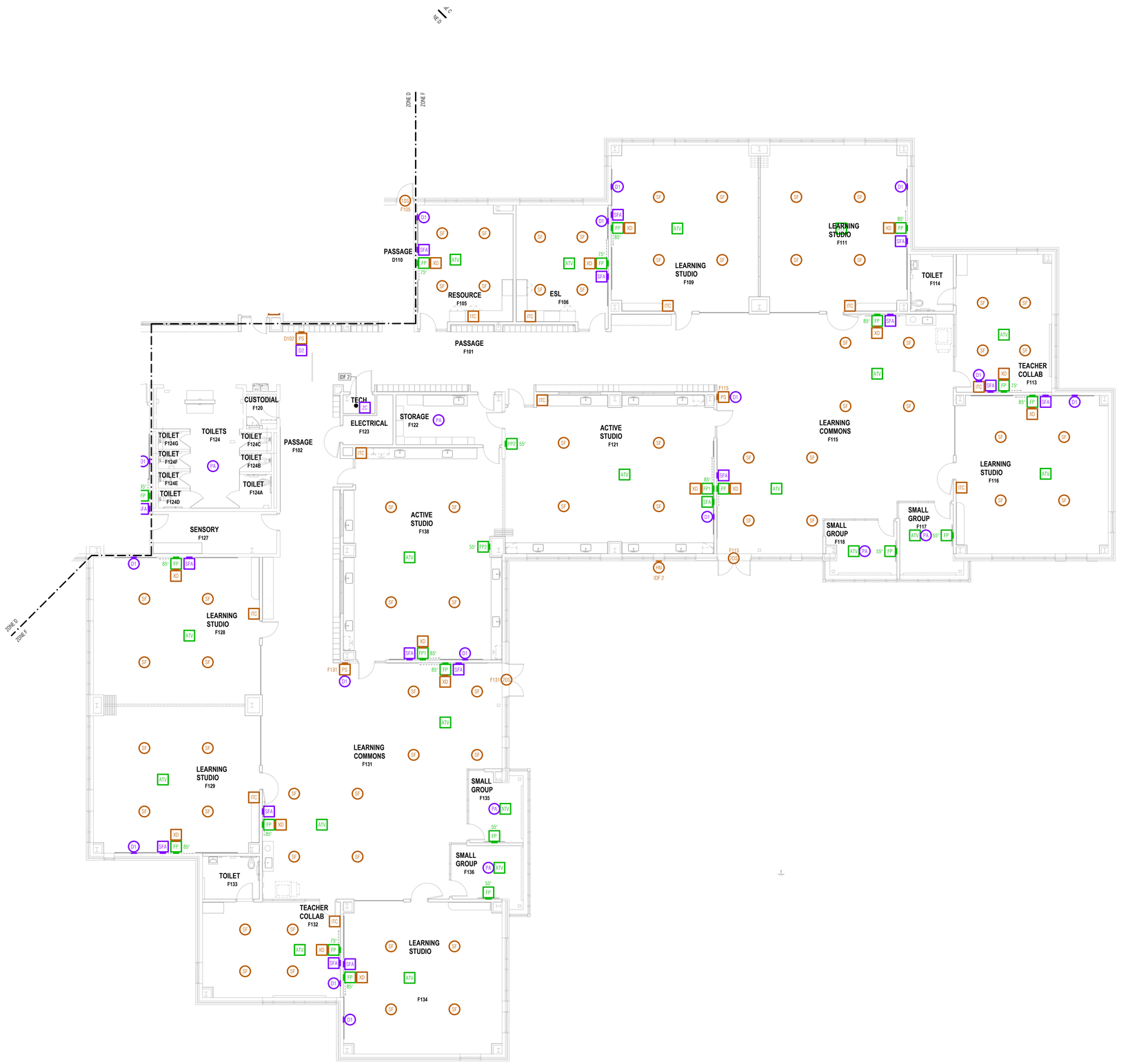
Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

1st Floor Unit E
Audiovisual System
EPIC System

N

T5.1E



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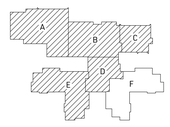
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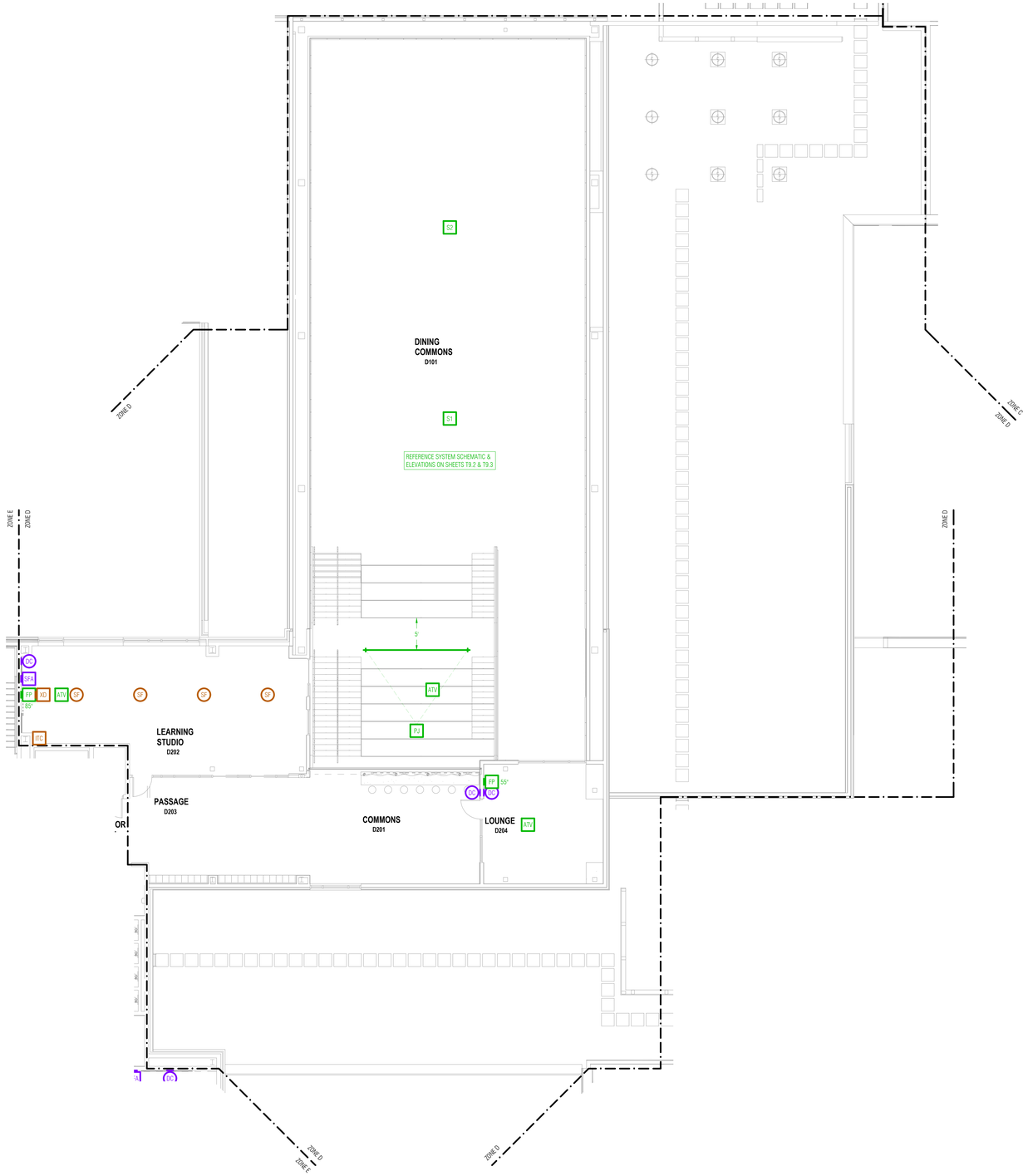
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  COAX CABLE TV CABLING DEMO BY STRUCTURED CABLING CONTRACTOR
- FP FLAT PANEL DISPLAY, CEILING OR CART MOUNTED | WALL MOUNTED, MINIMUM SIZE INDICATED
- PJ PROJECTOR, CEILING MOUNTED
- ATV APPLE TV, TYPICALLY CEILING MOUNTED, USING OWNER PROVIDED BRACKET
- SFA XD SOUNDFIELD AMPLIFIER | XD RECEIVER, WALL MOUNTED
  AUDIO ENHANCEMENTS: MS-500 KIT UNLESS OTHERWISE NOTED
- ZC ZONE CONTROLLER & AMPLIFIER, RACK LOCATED, AUDIO ENHANCEMENTS: CZA-1300
- DSR DOOR SENSOR INTERFACE, RACK LOCATED, BARIX: BARIONET 50
- DT IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSWDHD-MW
- DT IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPCSHD-DS-MB
- DT IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSIGNL-RWB
- PA IP PA SPEAKER, CEILING MOUNTED, ADVANCED NETWORK DEVICES: IPSCM-RMx
  INCLUDE BACKBOX FOR WALL MOUNT AND HARD CEILING APPLICATIONS
- ITC TOUCH CONTROLLER, AUDIO ENHANCEMENT: INTERACTIVE TOUCH CONTROLLER
- SF SF SOUNDFIELD SPEAKER, CEILING | WALL MOUNTED
- PS PULL STATION (EMERGENCY BUTTON), WALL MOUNTED, AUDIO ENHANCEMENT: WPA-705
- MDS DOOR SENSOR, AUDIO ENHANCEMENT: MAGNETIC DOOR SENSE SWITCH
  # INDICATES HOW MANY SENSORS WIRED TOGETHER AS SINGLE FEED
- HRN PAGING HORN, WALL MOUNTED, AUDIO ENHANCEMENTS: SP-1091, TAP 15 WATTS

AUDIOVISUAL SYSTEMS NEW PROJECT NOTES:

1. WHERE SHOWN, CABLE DEVICES TO LOCATIONS IDENTIFIED; DAISY-CHAIN 70V SPEAKERS/HORNS WITH COMMON HEAD END.

SMITH SPECIFIC PROJECT NOTES:

1.

Barton Malow

Barton Malow Builders
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Owner:

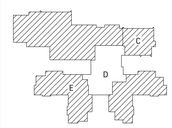
TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
BIDS	07/07/2025

Key Plan:



Native Page Size: 42" X 30"

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0' 2' 4' 8' 16'

Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

2nd Floor Unit D
Audiovisual System
EPIC System

N

T5.2D



GENERAL TECHNOLOGY NOTES:

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5. CONTRACTOR SHALL PROVIDE FIRESTOPPING ON PENETRATIONS PASSING THROUGH WALLS AND FLOORS IN WHICH THEY WORK.
6. CONTRACTOR SHALL COORDINATE TELECOMMUNICATION ROOM LAYOUTS WITH BARTON MALOW AND ALL IMPACTED CONTRACTORS PRIOR TO INSTALLATION.
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9. CONTRACTOR SHALL PROVIDE PROTECTIVE GUARDS ON THEIR DEVICES (CLOCKS, PHONES, ACCESS POINTS, MOTION DETECTORS, ETC.) SUBJECT TO ABUSE IN GYMNASIUMS AND NATATORIUMS.

AUDIOVISUAL & EPIC SYSTEMS LEGEND:

LINE STYLES
- THIN, DASHED, RED - DEMOLISH HARDWARE & CABLE TO SOURCE
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, COLOR-CODED - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, COLOR-CODED - NEW HARDWARE AND/OR CABLE

COLOR CODE
- GREEN - AUDIOVISUAL SYSTEM DEVICE
- PURPLE - IP EPIC DEVICE
- BROWN - ANALOG EPIC DEVICE

CABLING OUTLET / WALL PLATE
- LOCATED IN FLOOR BOX
- LOCATED ON WALL, LOW HEIGHT
- LOCATED ON WALL, MID HEIGHT
- LOCATED ON WALL, HIGH HEIGHT

OUTLET / PLATE ABBREVIATIONS
- A AUDIO PLATE: SEE SCHEMATIC
- V AUDIO AND / OR VIDEO PLATE: SEE SCHEMATIC
- AV LEGACY AUDIOVISUAL INTERFACE

HARDWARE
- SFA LEGACY SOUNDFIELD SYSTEM (BAKER MS ONLY)
- CRT CRT TV, MOUNT, ASSOCIATED PLATES, CONNECTORS AND AV CABLING (BAKER MS ONLY) COAX CABLE TV CABLING DEMO BY STRUCTURED CABLING CONTRACTOR
- FP FLAT PANEL DISPLAY, CEILING OR CART MOUNTED | WALL MOUNTED, MINIMUM SIZE INDICATED
- PJ PROJECTOR, CEILING MOUNTED
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- SFA XD SOUNDFIELD AMPLIFIER | XD RECEIVER, WALL MOUNTED AUDIO ENHANCEMENTS: MS-500 KIT UNLESS OTHERWISE NOTED
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- DS DOOR SENSOR INTERFACE, RACK LOCATED, BARIX: BARIONET 50
- IDF IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSWDHD-MW
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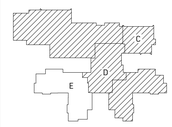
TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
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Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

2nd Floor Unit E
Audiovisual System
EPIC System

N

T5.2E



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ACCESS CONTROL SYSTEM LEGEND:

LINE STYLES

- THIN, DASHED, RED - DEMO EXISTING
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, ORANGE - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, ORANGE - NEW HARDWARE AND/OR CABLE

HARDWARE:

VI | VICR	VIDEO INTERCOM | VIDEO INTERCOM WITH INTEGRATED CARD READER
CR	CARD READER
DC	DOOR CONTACT
ME	MOTION REQUEST TO EXIT DEVICE
MS	MASTER STATION: VIDEO INTERCOM, DOOR RELEASE BUTTON(S), LOCK-DOWN BUTTON(S)
VIM	VIDEO INTERCOM MASTER STATION
CP	CONTROL PANEL

VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.

Barton Malow

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Owner:

Troy School District

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

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Key Plan:

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Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

1st Floor Composite
Access Control System

T6.1



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ACCESS CONTROL SYSTEM LEGEND:

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- THIN, DASHED, ORANGE - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, ORANGE - NEW HARDWARE AND/OR CABLE

HARDWARE:

- VI | VICR — VIDEO INTERCOM | VIDEO INTERCOM WITH INTEGRATED CARD READER
- CR — CARD READER
- DC — DOOR CONTACT
- ME — MOTION REQUEST TO EXIT DEVICE
- MS — MASTER STATION: VIDEO INTERCOM, DOOR RELEASE BUTTON(S), LOCK-DOWN BUTTON(S)
- VIM — VIDEO INTERCOM MASTER STATION
- CP — CONTROL PANEL

VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.

N

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Owner:

TROY SCHOOL DISTRICT

Troy, Michigan

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Project Manager: Brian Beck, PMP
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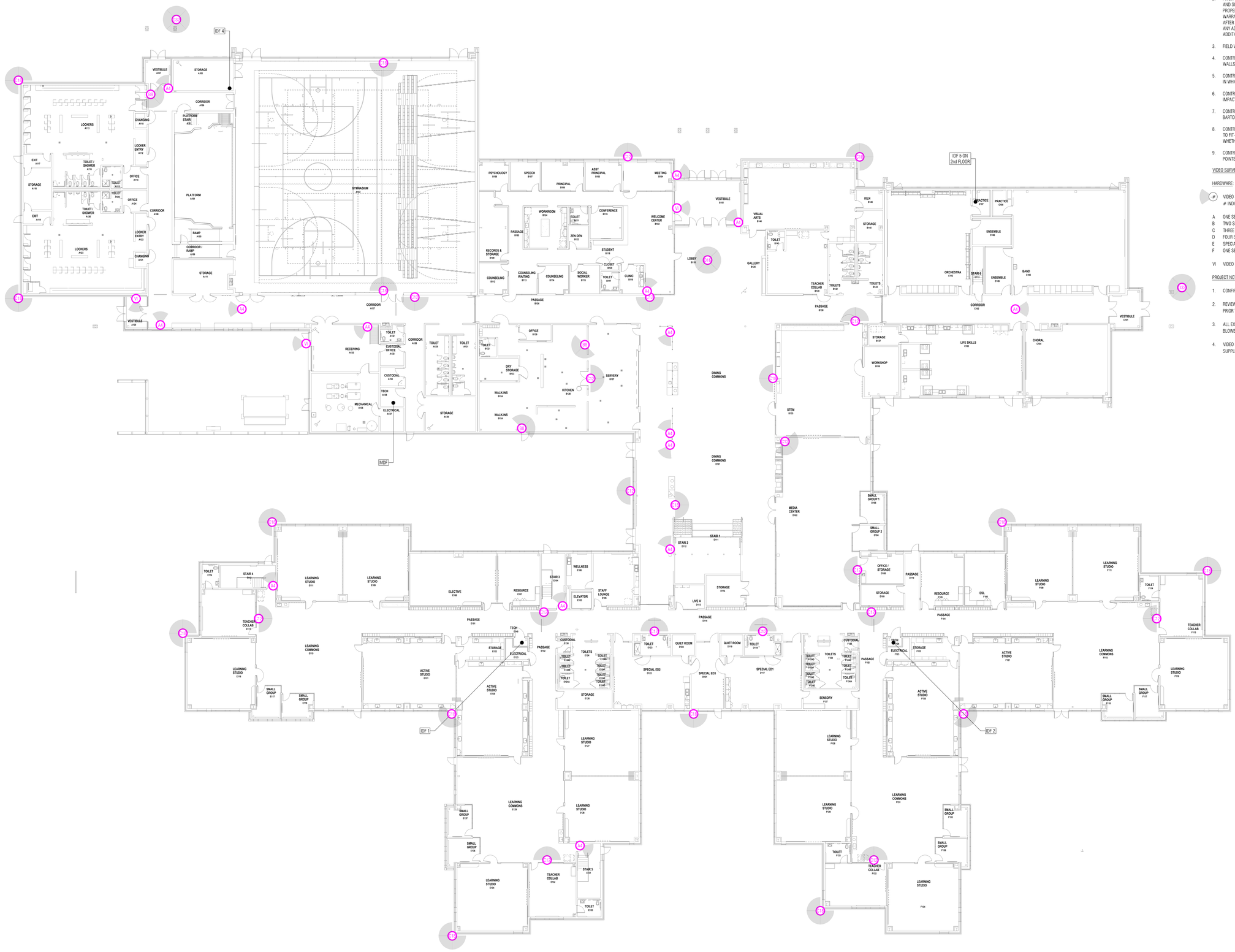
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Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

2nd Floor Composite
Access Control System

T6.2



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VIDEO SURVEILLANCE SYSTEM LEGEND:

HARDWARE:

(#) VIDEO SURVEILLANCE CAMERA; SHADING INDICATES DIRECTION OF VIEW, NOT COVERAGE
# INDICATES MINIMUM TOTAL MEGAPIXELS FOR CAMERA

A ONE SENSOR / LENS
B TWO SENSOR / LENS
C THREE SENSOR / LENS
D FOUR SENSOR / LENS
E SPECIALTY CAMERA
F ONE SENSOR FISHEYE LENS

VI VIDEO INTERCOM STATION (BY ACCESS CONTROL CONTRACTOR); INCLUDE FOR VIDEO RECORDING

PROJECT NOTES:

1. CONFIRM ALL MOUNTING LOCATIONS WITH TECHNOLOGY DESIGNER PRIOR TO INSTALLATION.
2. REVIEW AND CONFIRM ALL CAMERA VIEWS AND SETTINGS WITH TECHNOLOGY DESIGNER AND OWNER PRIOR TO ACCEPTANCE; ADJUST AS NECESSARY.
3. ALL EXTERIOR CAMERAS SHALL BE RATED FOR SUCH USE AND BE PROVIDED WITH HOUSING, HEATER, AND BLOWER AS NECESSARY TO OPERATE IN THE INTENDED CLIMATE.
4. VIDEO SURVEILLANCE CONTRACTOR TO PROVIDE PATCH CABLES BETWEEN CAMERA AND DATA JACK SUPPLIED BY OTHERS. COORDINATE JACK LOCATIONS WITH DATA CONTRACTOR.

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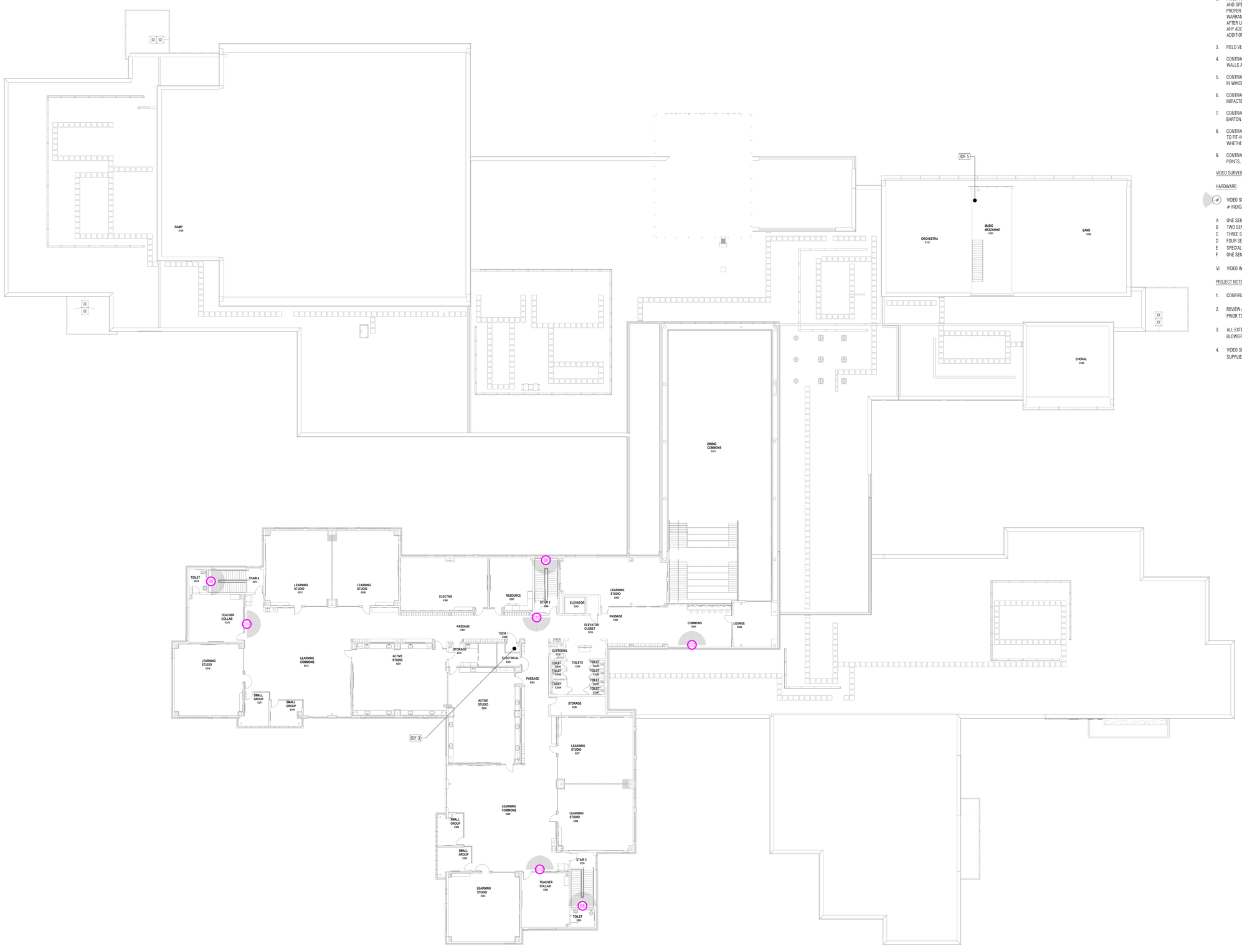
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Bid Package T3
Access Control System
& Technology Upgrades

Smith
Middle School

1st Floor Composite
Video Surveillance System

T7.1



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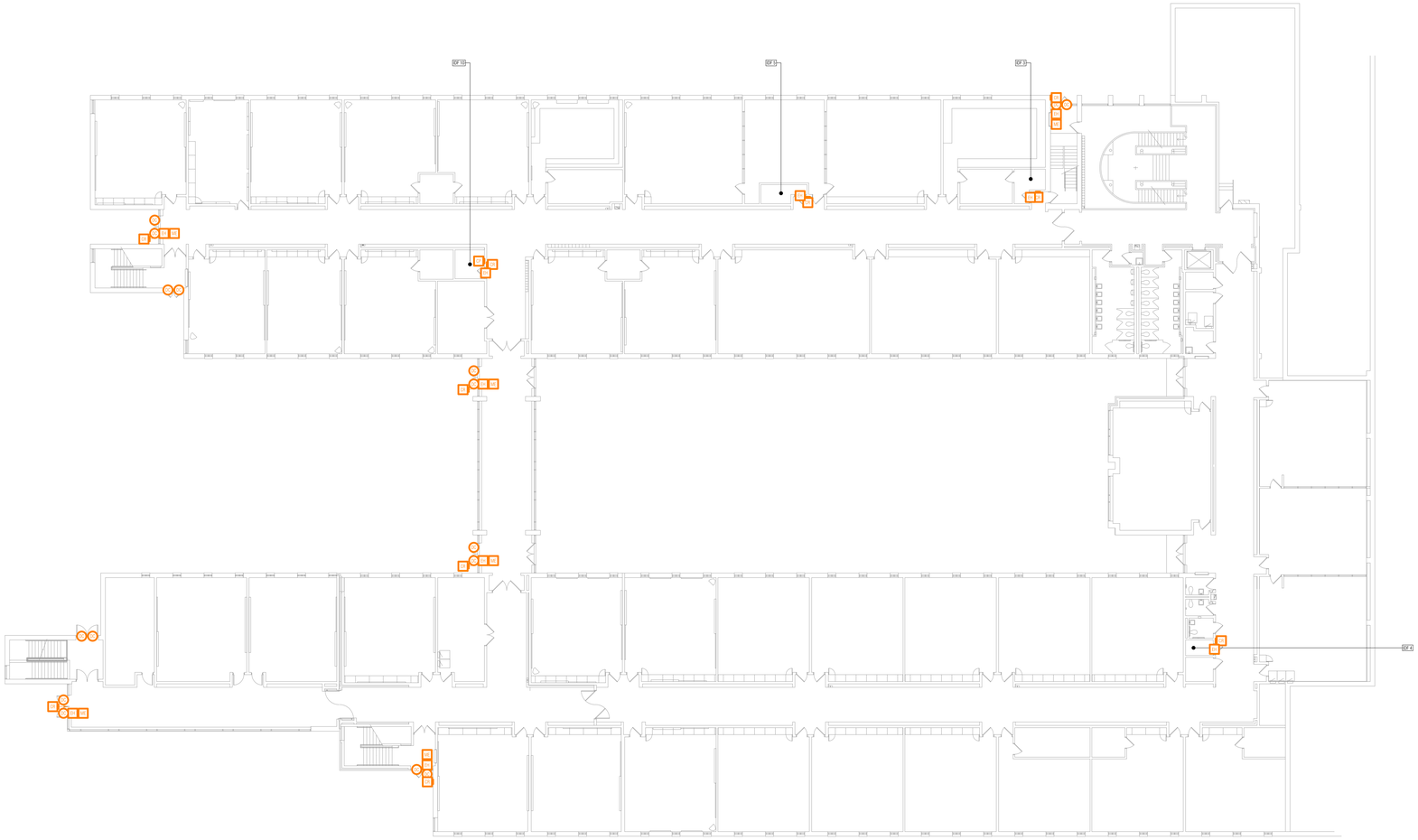
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Smith
Middle School

2nd Floor Composite
Video Surveillance System

N

T7.2



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ACCESS CONTROL SYSTEM LEGEND:

LINE STYLES

- THIN, DASHED, RED - DEMO EXISTING
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, ORANGE - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, ORANGE - NEW HARDWARE AND/OR CABLE

HARDWARE:

- VI | VICR — VIDEO INTERCOM | VIDEO INTERCOM WITH INTEGRATED CARD READER
- CR — CARD READER
- DC — DOOR CONTACT
- ME — MOTION REQUEST TO EXIT DEVICE
- MS — MASTER STATION: VIDEO INTERCOM, DOOR RELEASE BUTTON(S), LOCK-DOWN BUTTON(S)
- VIM — VIDEO INTERCOM MASTER STATION
- CP — CONTROL PANEL

VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.

Barton Malow

Barton Malow Builders
26500 American Drive
Southfield, MI 48034

248.436.5000
www.bartonmalow.com

Owner:

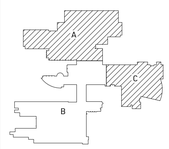
TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

Issued For	Date
BIDS	07/07/2025

Key Plan:



Native Page Size: 42" X 30"

Scale: 1/16" = 1'

0' 4' 8' 16' 32'

Bid Package T3
Access Control System
& Technology Upgrades

Troy
High School

Lower Floor Southeast
Access Control System

N

T6.0B

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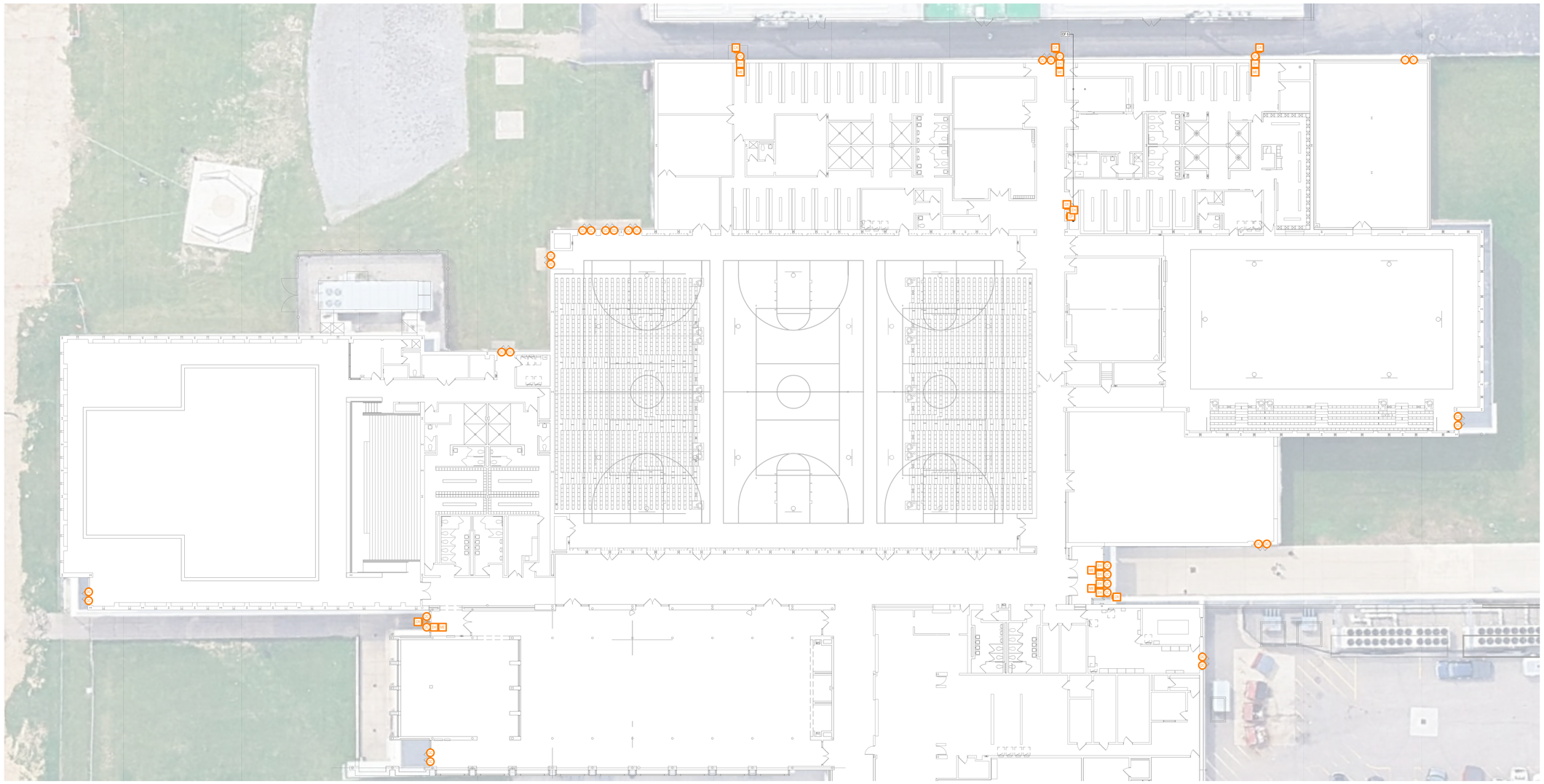
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MS	MASTER STATION: VIDEO INTERCOM, DOOR RELEASE BUTTON(S), LOCK-DOWN BUTTON(S)
VIM	VIDEO INTERCOM MASTER STATION
CP	CONTROL PANEL

VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.



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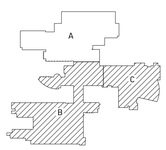
TROY SCHOOL DISTRICT

Troy, Michigan

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Bid Package T3
Access Control System
& Technology Upgrades

Troy
High School

1st Floor West
Access Control System

T6.1A



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Owner:

TROY SCHOOL DISTRICT

Troy, Michigan

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Project Manager: Brian Beck, PMP
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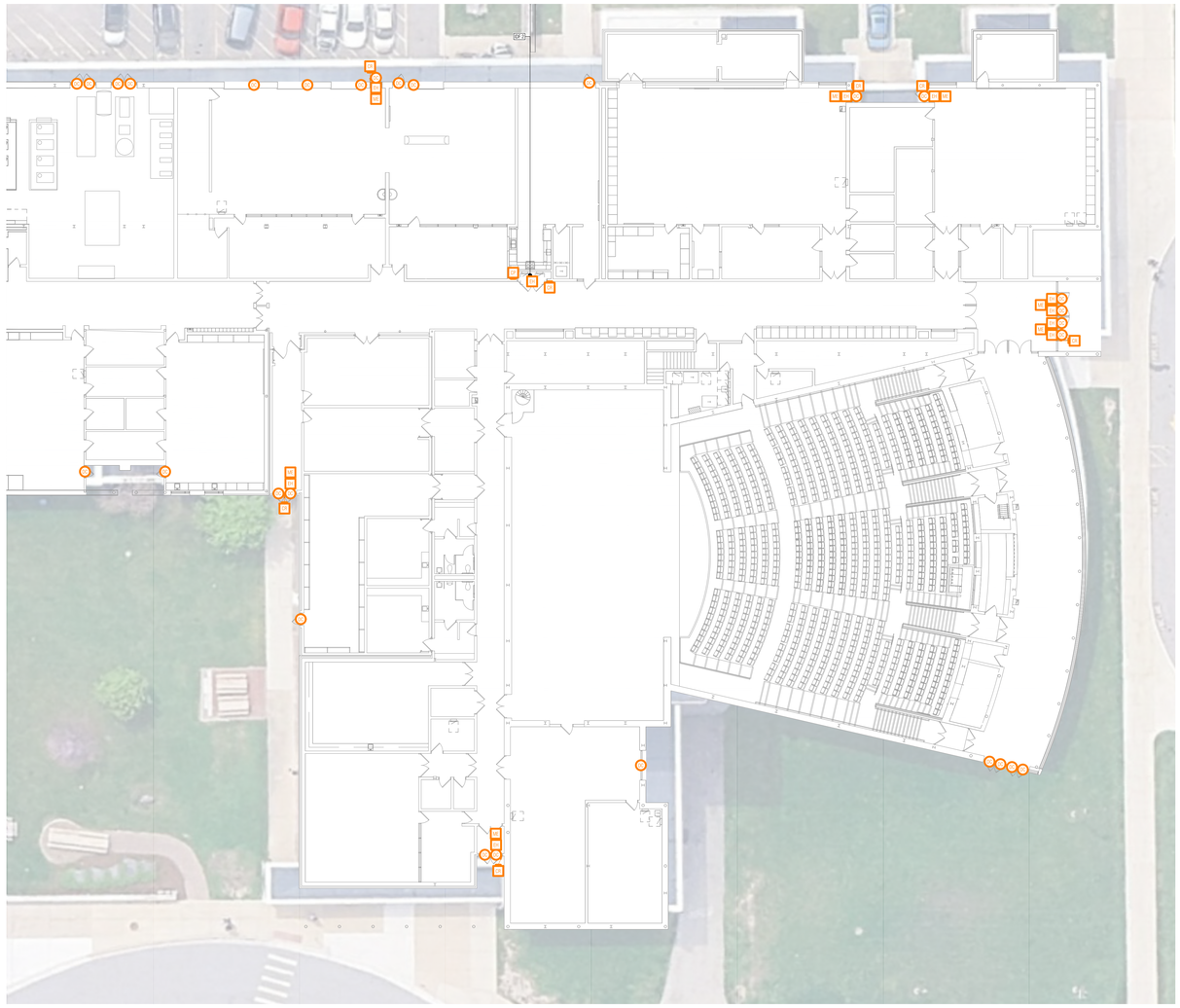
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& Technology Upgrades

Troy
High School

1st Floor Southeast
Access Control System

N

T6.1B



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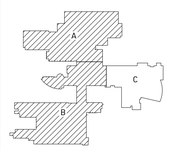
TROY SCHOOL DISTRICT

Troy, Michigan

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Bid Package T3
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& Technology Upgrades

Troy
High School

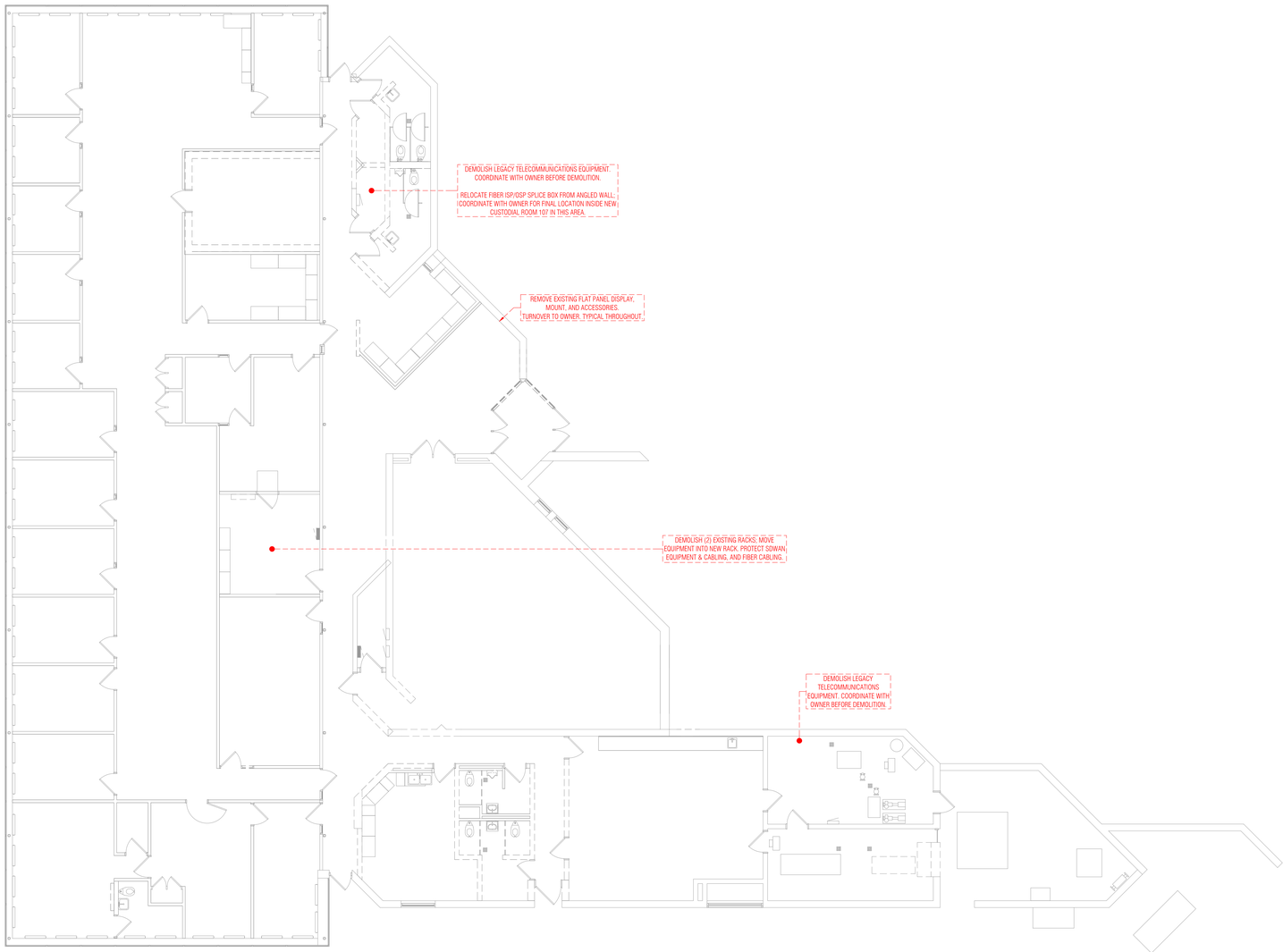
1st Floor Northeast
Access Control System

N

T6.1C

GENERAL DEMOLITION NOTES:

1. DEMOLITION WORK INDICATED ON THE DRAWINGS ARE CONCEPTUAL. INCLUDE ALL ITEMS RELATED TO THE EXISTING SYSTEM (e.g. EQUIPMENT, CABLING, RACEWAY, SUPPORTS, ETC.) IN ORDER TO REMOVE ABANDONED SYSTEMS OR ACCOMPLISH THE INSTALLATION OF THE SPECIFIED NEW WORK.
2. EXAMINE EXISTING CONDITIONS AND EXTENT OF DEMOLITION WORK PRIOR TO SUBMISSION OF BIDS.
3. EACH CONTRACTOR SHALL PROVIDE INCIDENTAL DEMOLITION AND/OR RELOCATION REQUIRED TO FACILITATE THE WORK OF OTHER CONTRACTORS, WHETHER OR NOT SPECIFICALLY INDICATED.
4. ABANDONED MATERIALS SHALL BE DISPOSED OF OFF-SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS, AND AS SPECIFIED IN THE PROJECT MANUAL. THE BASE BID SHOULD REFLECT SAVINGS BASED ON ANY ITEMS WITH RESIDUAL VALUE, TRADE-IN CREDIT, ETC.
5. CABLES TO BE ABATED SHALL BE REMOVED TO THEIR SOURCE AND ANY CORRESPONDING LABELS REMOVED FROM THE EQUIPMENT OR TERMINATION POINT. REMOVE THE CORRESPONDING PATCH/TIE CABLE TO THE SOURCE EQUIPMENT.
6. PROVIDE PROPER SUPPORTS TO EXISTING UNSUPPORTED CABLES WHERE CEILINGS ARE TO BE REMOVED.
7. CONTRACTOR SHALL INSTALL FIRESTOPPING ON ANY CONDUITS/PENETRATIONS WHERE CABLES ARE REMOVED OR DISTURBED DURING DEMOLITION.
8. EQUIPMENT TO BE TURNED OVER TO THE OWNER SHALL BE DELIVERED TO A CENTRAL LOCATION. EQUIPMENT SHALL BE CLEAN AND ORGANIZED. PROVIDE AN INVENTORY OF SALVAGED EQUIPMENT.
9. EQUIPMENT TO BE REINSTALLED AS PART OF THE PROJECT IS TO BE LABELED WITH ORIGINATING LOCATION (ROOM), REMOVED, CLEANED, STORED, REINSTALLED, AND TESTED PRIOR TO OWNER ACCEPTANCE.



Barton Malow

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248.436.5000
www.bartonmalow.com

Owner:

Troy School District

Troy, Michigan

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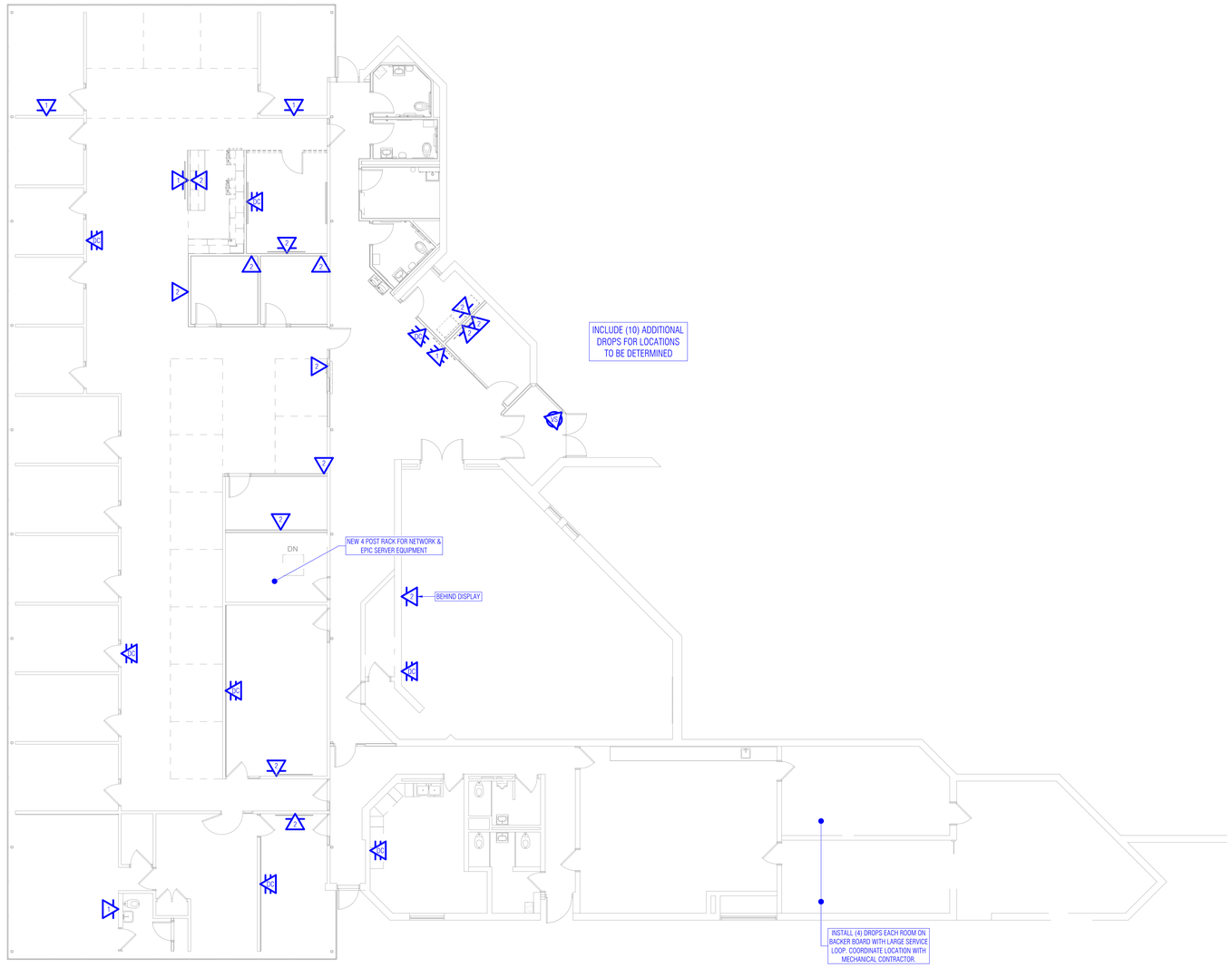
Bid Package T3
Access Control System
& Technology Upgrades

Administration

1st Floor Composite
Technology Demolition

N

TD3



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STRUCTURED CABLING LEGEND:

CABLING OUTLET / WALL PLATE

LOCATED IN FLOOR BOX

LOCATED ON WALL, LOW HEIGHT (0'-36" AFF)

LOCATED ON WALL, MID HEIGHT (36"-84" AFF)

LOCATED ON WALL, HIGH HEIGHT (84"+ AFF)

LOCATED AT CEILING

OUTLET / PLATE ABBREVIATIONS

#	NUMBER OF DATA DROPS
AP	WIRELESS ACCESS POINT LOCATION, INCLUDE 1 DATA DROP
ATV	APPLE TV DEVICE LOCATION, INCLUDE 1 DATA DROP
DC	DIGITAL CLOCK LOCATION, INCLUDE 1 DATA DROP
PA	PUBLIC ADDRES SPEAKER LOCATION, INCLUDE 1 DATA DROP
PS	PULL STATION LOCATION, INCLUDE 1 DATA DROP
SFA	SOUNDFIELD AMPLIFIER LOCATION, INCLUDE 1 DATA DROP
WP	WALL PHONE LOCATION, INCLUDE 1 DATA DROP & WALL PHONE PLATE
VS	VIDEO SURVEILLANCE CAMERA LOCATION, INCLUDE 1 DATA DROP

HARDWARE

AP WIRELESS ACCESS POINT, CEILING | WALL MOUNTED

TC TIME CLOCK

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Administration

1st Floor Composite
Structured Cabling

N

T3



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AUDIOVISUAL & EPIC SYSTEMS LEGEND:

LINE STYLES
- THIN, DASHED, RED - DEMOLISH HARDWARE & CABLE TO SOURCE
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, COLOR-CODED - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, COLOR-CODED - NEW HARDWARE AND/OR CABLE

COLOR CODE
- GREEN - AUDIOVISUAL SYSTEM DEVICE
- PURPLE - IP EPIC DEVICE
- BROWN - ANALOG EPIC DEVICE

CABLING OUTLET / WALL PLATE
- LOCATED IN FLOOR BOX
- LOCATED ON WALL, LOW HEIGHT
- LOCATED ON WALL, MID HEIGHT
- LOCATED ON WALL, HIGH HEIGHT

OUTLET / PLATE ABBREVIATIONS
- A AUDIO PLATE: SEE SCHEMATIC
- V AUDIO AND / OR VIDEO PLATE: SEE SCHEMATIC
- AV LEGACY AUDIOVISUAL INTERFACE

HARDWARE
- SFA LEGACY SOUNDFIELD SYSTEM (BAKER MS ONLY)
- CRT CRT TV, MOUNT, ASSOCIATED PLATES, CONNECTORS AND AV CABLING (BAKER MS ONLY) COAX CABLE TV CABLING DEMO BY STRUCTURED CABLING CONTRACTOR
- FP FLAT PANEL DISPLAY, CEILING OR CART MOUNTED | WALL MOUNTED, MINIMUM SIZE INDICATED
- PJ PROJECTOR, CEILING MOUNTED
- ATV APPLE TV, TYPICALLY CEILING MOUNTED, USING OWNER PROVIDED BRACKET
- SFA XD SOUNDFIELD AMPLIFIER | XD RECEIVER, WALL MOUNTED AUDIO ENHANCEMENTS: MS-500 KIT UNLESS OTHERWISE NOTED
- ZC ZONE CONTROLLER & AMPLIFIER, RACK LOCATED, AUDIO ENHANCEMENTS: CZA-1300
- DSD DOOR SENSOR INTERFACE, RACK LOCATED, BARIX: BARIONET 50
- D1 IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSWDHD-MW
- D2 IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPCSHD-DS-MB
- D3 IP DIGITAL CLOCK, WALL MOUNTED, ADVANCED NETWORK DEVICES: IPSIGNL-RWB
- PA IP PA SPEAKER, CEILING MOUNTED, ADVANCED NETWORK DEVICES: IPSCM-RMx INCLUDE BACKBOX FOR WALL MOUNT AND HARD CEILING APPLICATIONS
- TTC TOUCH CONTROLLER, AUDIO ENHANCEMENT: INTERACTIVE TOUCH CONTROLLER
- SF SF SOUNDFIELD SPEAKER, CEILING | WALL MOUNTED
- PS PULL STATION (EMERGENCY BUTTON), WALL MOUNTED, AUDIO ENHANCEMENT: WPA-705
- #DS DOOR SENSOR, AUDIO ENHANCEMENT: MAGNETIC DOOR SENSE SWITCH # INDICATES HOW MANY SENSORS WIRED TOGETHER AS SINGLE FEED
- HN PAGING HORN, WALL MOUNTED, AUDIO ENHANCEMENTS: SP-1091, TAP 15 WATTS

AUDIOVISUAL SYSTEMS NEW PROJECT NOTES:

1. WHERE SHOWN, CABLE DEVICES TO LOCATIONS IDENTIFIED; DAISY-CHAIN 70V SPEAKERS/HORNS WITH COMMON HEAD END.

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Native Page Size: 42" X 30"

Scale: 1/16" = 1'

0' 4' 8' 16' 32'

Bid Package T3
Access Control System
& Technology Upgrades

Administration

1st Floor Composite
Audiovisual Systems
EPIC System

T5



GENERAL TECHNOLOGY NOTES:

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. CONTRACTORS SHALL PROVIDE ALL INCIDENTAL MATERIALS AND LABOR FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM.
2. PRIOR TO BEGINNING WORK, CONTRACTORS ARE TO REVIEW BUILDING PLANS, INSTALLATION LOCATIONS, AND SITE CONDITIONS. NOTIFY THE TECHNOLOGY DESIGNER OF ANY CONDITIONS THAT MAY: PREVENT PROPER INSTALLATION AND OPTIMAL PERFORMANCE OF THE SYSTEMS; VOID THE MANUFACTURER'S WARRANTY; OR THAT CONFLICT WITH THE INTENT OF THE PROJECT. PROCEED WITH INSTALLATION ONLY AFTER UNSATISFACTORY CONDITIONS HAVE BEEN RESOLVED. THE CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL WORK RELATED TO CORRECTING UNREPORTED CONFLICTS AND ISSUES, AT NO ADDITIONAL COST TO THE OWNER.
3. FIELD VERIFY LOCATIONS, CONDITIONS AND LENGTHS PRIOR TO INSTALLATION.
4. CONTRACTOR IS REQUIRED TO PROVIDE THEIR OWN PENETRATIONS, SLEEVES, AND CORES THROUGH ALL WALLS AND FLOORS. ALL SLEEVES SHALL HAVE NYLON BUSHINGS.
5. CONTRACTOR SHALL PROVIDE FIRESTOPPING ON PENETRATIONS PASSING THROUGH WALLS AND FLOORS IN WHICH THEY WORK.
6. CONTRACTOR SHALL COORDINATE TELECOMMUNICATION ROOM LAYOUTS WITH BARTON MALOW AND ALL IMPACTED CONTRACTORS PRIOR TO INSTALLATION.
7. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT LOCATIONS AND ROUGH-IN REQUIREMENTS WITH BARTON MALOW AND ALL IMPACTED CONTRACTORS PRIOR TO INSTALLATIONS.
8. CONTRACTOR SHALL PROVIDE FACEPLATES, INSERTS, AND ADAPTERS AS NECESSARY FOR THEIR DEVICES TO FIT-IN AND WORK-WITH: RACEWAY; FLOOR, TABLE, AND BACK BOXES; AND ELECTRICAL OUTLETS, WHETHER EXISTING OR PROVIDED BY OTHERS.
9. CONTRACTOR SHALL PROVIDE PROTECTIVE GUARDS ON THEIR DEVICES (CLOCKS, PHONES, ACCESS POINTS, MOTION DETECTORS, ETC.) SUBJECT TO ABUSE IN GYMNASIUMS AND NATATORIUMS.

ACCESS CONTROL SYSTEM LEGEND:

LINE STYLES

- THIN, DASHED, RED - DEMO EXISTING
- THIN, SOLID, BLACK - EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
- THIN, DASHED, ORANGE - REPLACE EXISTING HARDWARE, DEMO CABLE TO SOURCE & REPLACE
- THICK, SOLID, ORANGE - NEW HARDWARE AND/OR CABLE

HARDWARE:

- VI | VICR — VIDEO INTERCOM | VIDEO INTERCOM WITH INTEGRATED CARD READER
- CR — CARD READER
- DC — DOOR CONTACT
- ME — MOTION REQUEST TO EXIT DEVICE
- MS — MASTER STATION: VIDEO INTERCOM, DOOR RELEASE BUTTON(S), LOCK-DOWN BUTTON(S)
- VIM — VIDEO INTERCOM MASTER STATION
- CP — CONTROL PANEL

VIDEO SURVEILLANCE PROJECT NOTES:

1. TIE-IN ADA OPERATORS WHERE PRESENT.

Barton Malow

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26500 American Drive
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248.436.5000
www.bartonmalow.com

Owner:

TROY SCHOOL DISTRICT

Troy, Michigan

Project Number: 230018
Project Manager: Brian Beck, PMP
Drawn By: Bill Dawson, CTS

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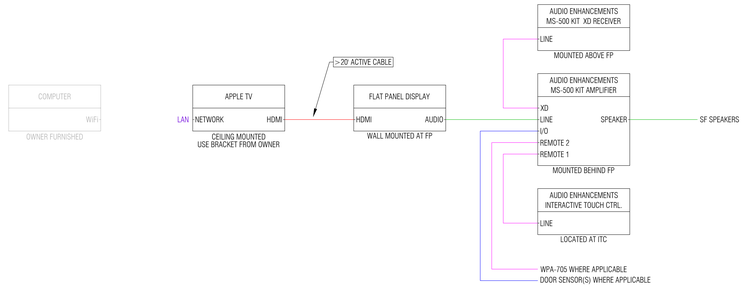
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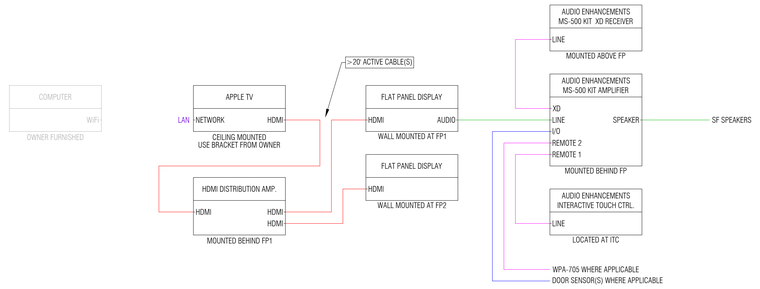
1st Floor Composite
Access Control System

T6

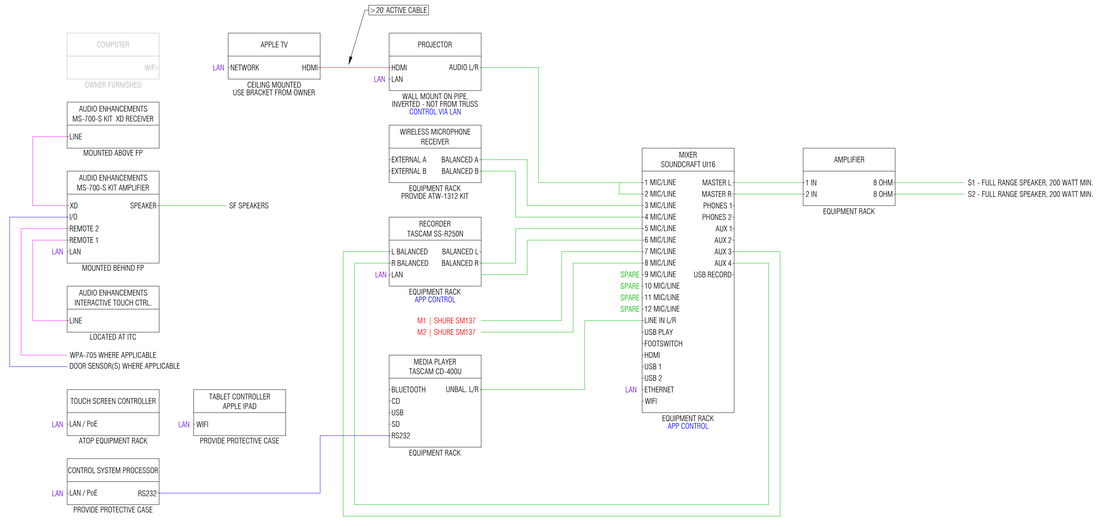
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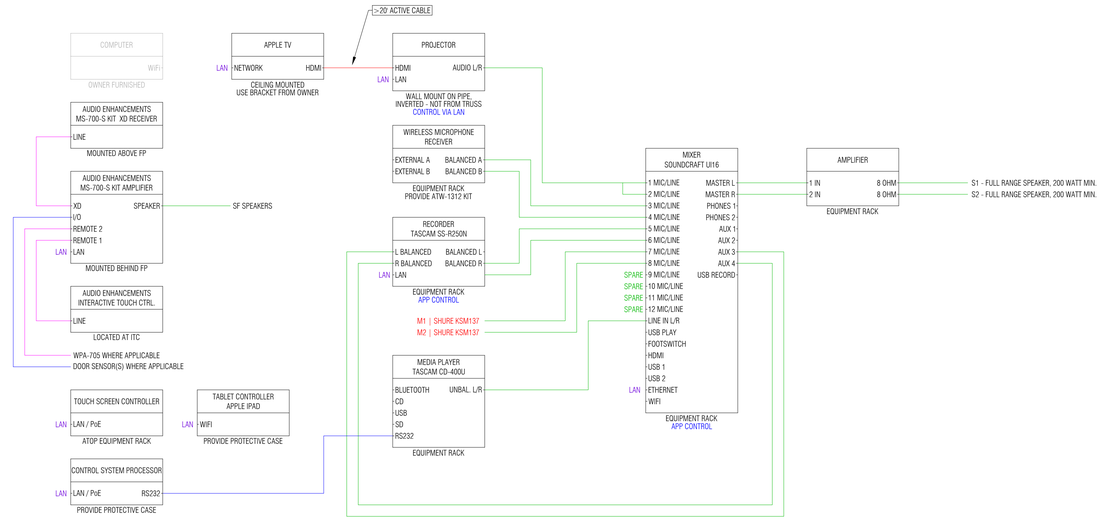
Typical Classroom Audiovisual System Schematic - Single Display



Typical Classroom Audiovisual System Schematic - Dual Display



Band & Orchestra Classroom Audiovisual System Schematic



Choral Classroom Audiovisual System Schematic

AUDIOVISUAL SYSTEM SCHEMATICS ARE DIAGRAMMATIC ONLY AND DO NOT INCLUDE ALL HARDWARE AND PARTS FOR A COMPLETE SYSTEM. CONTRACTORS ARE TO DESIGN AND PROPOSE A COMPLETE SYSTEM USING THE INTENT PRESENTED IN THESE DRAWINGS. WHERE SPECIFIC MAKE AND MODEL OF EQUIPMENT IS IDENTIFIED, CONTRACTOR IS TO USE THAT EQUIPMENT. WHERE EQUIPMENT IS IDENTIFIED AS BASIS OF DESIGN (B.O.D.), CONTRACTOR MAY USE THAT OR EQUAL. IT IS THE CONTRACTOR'S DUTY TO ENSURE A FULLY FUNCTIONAL SYSTEM THAT MEETS THE NEEDS OF THE OWNER.

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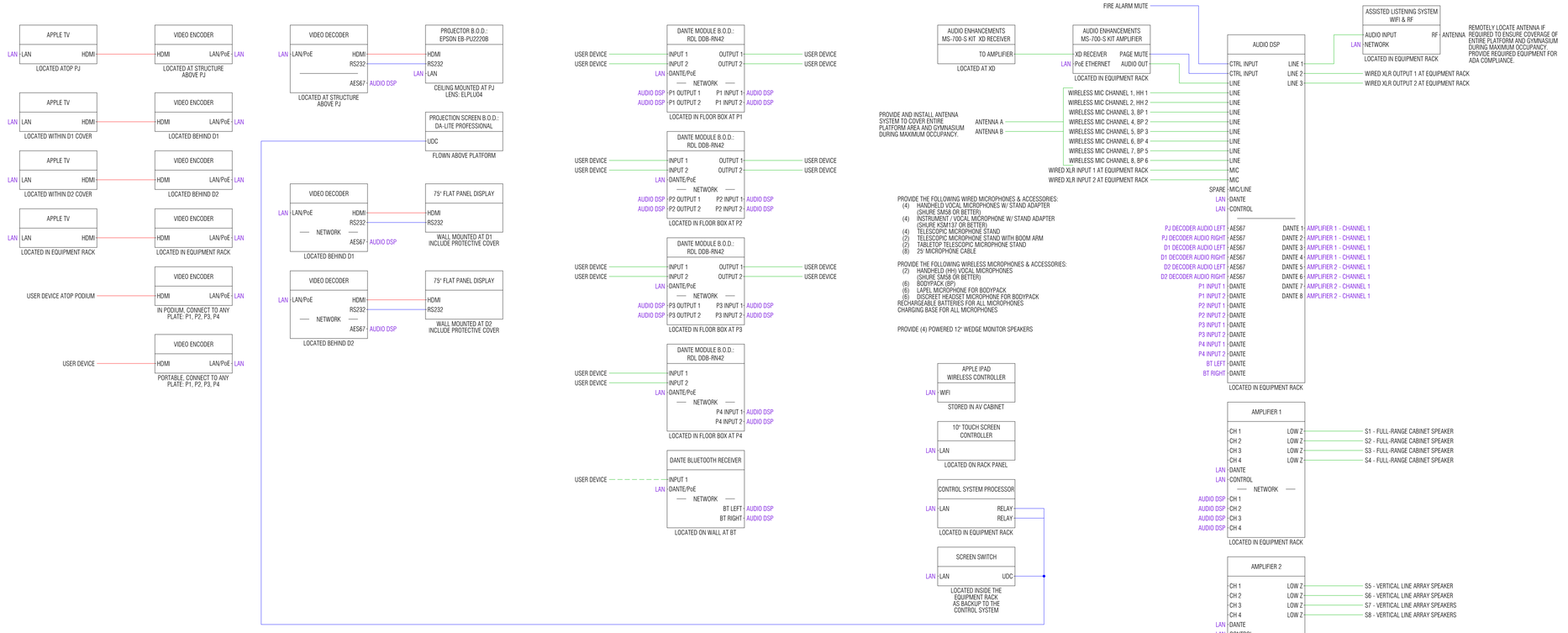
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Bid Package T3
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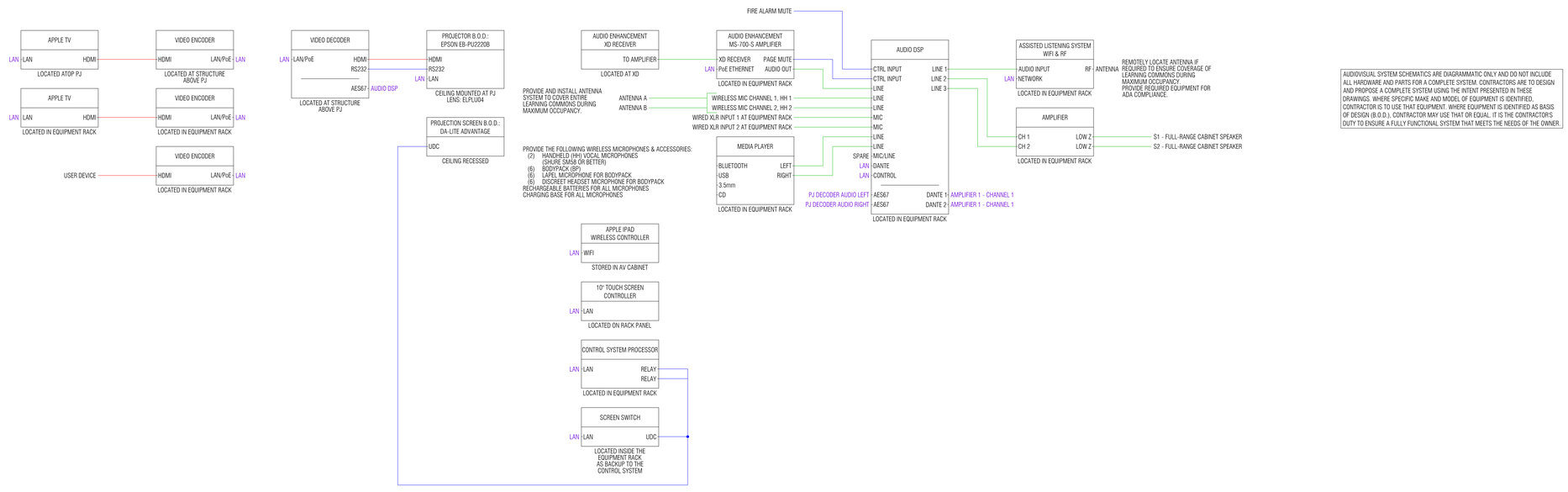
Details

Audiovisual Systems Schematics

T9.1



Gymnasium Audiovisual System Schematic



AUDIOVISUAL SYSTEM SCHEMATICS ARE DIAGRAMMATIC ONLY AND DO NOT INCLUDE ALL HARDWARE AND PARTS FOR A COMPLETE SYSTEM. CONTRACTORS ARE TO DESIGN AND PROPOSE A COMPLETE SYSTEM USING THE INTENT PRESENTED IN THESE DRAWINGS. WHERE SPECIFIC MAKE AND MODEL OF EQUIPMENT IS IDENTIFIED, CONTRACTOR IS TO USE THAT EQUIPMENT. WHERE EQUIPMENT IS IDENTIFIED AS BASIS OF DESIGN (B.O.D.), CONTRACTOR MAY USE THAT OR EQUAL. IT IS THE CONTRACTOR'S DUTY TO ENSURE A FULLY FUNCTIONAL SYSTEM THAT MEETS THE NEEDS OF THE OWNER.

Learning Commons Audiovisual System Schematic

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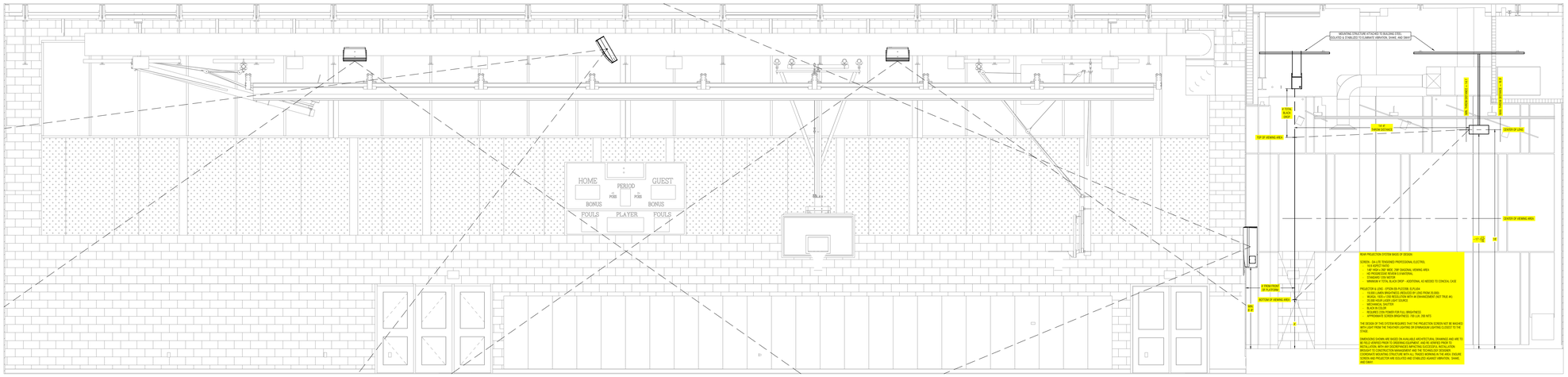
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Bid Package T3
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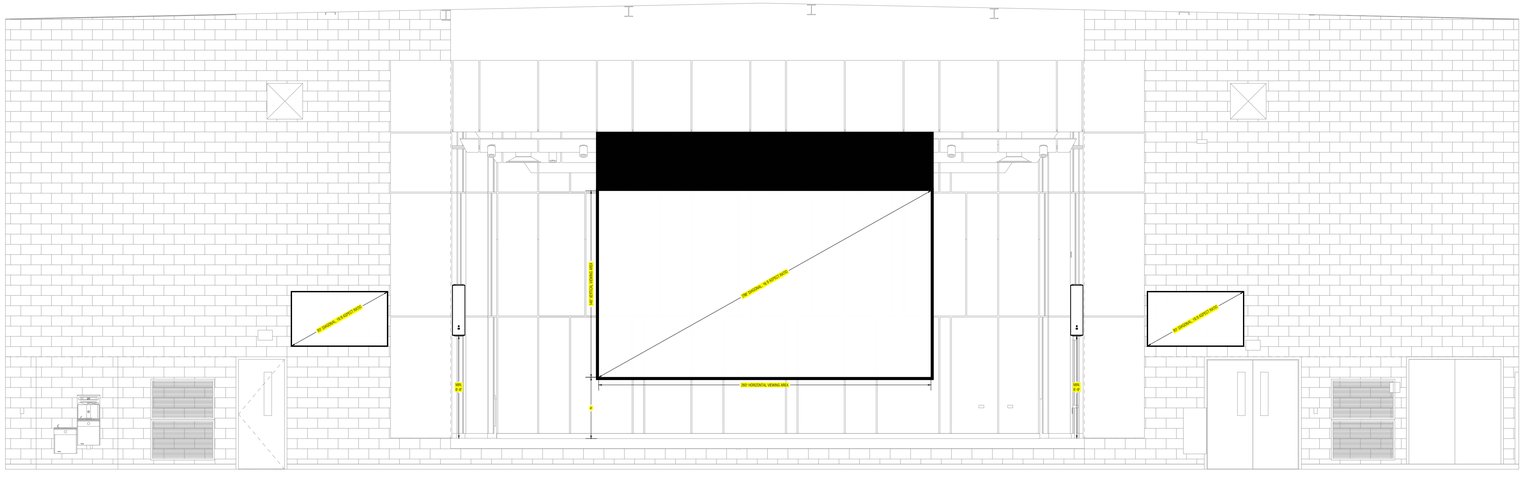
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Audiovisual Systems Schematics

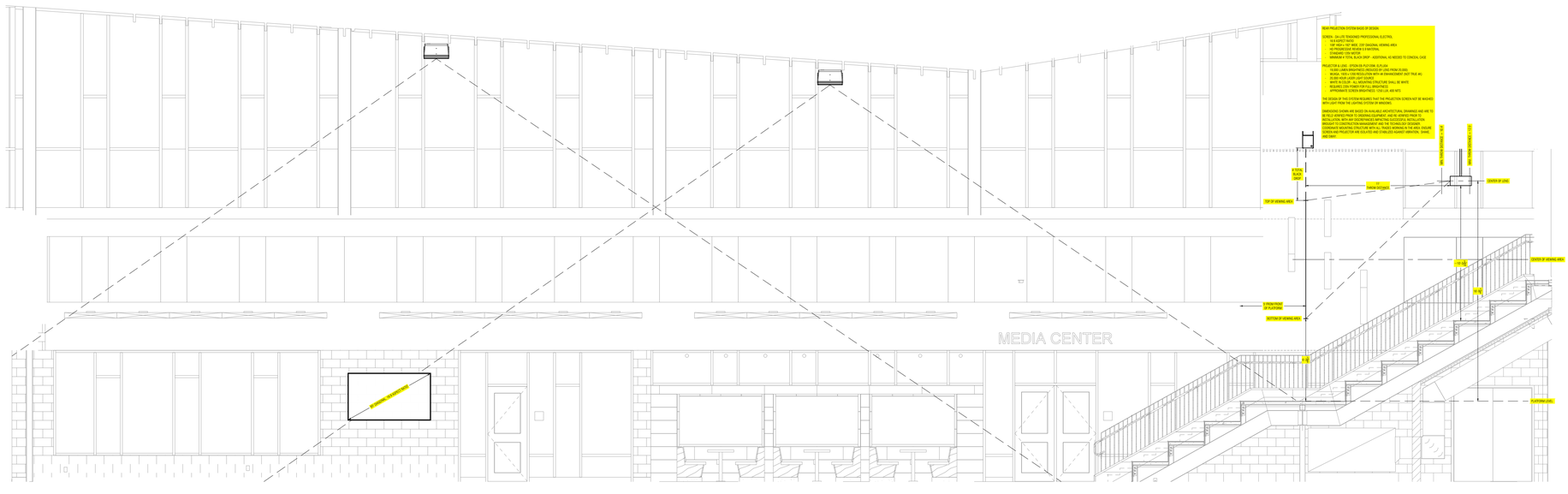
T9.2



Gymnasium South Elevation
SCALE: 1/4" = 1'



Gymnasium West Elevation
SCALE: 1/4" = 1'



Learning Commons East Elevation
SCALE: 1/4" = 1'

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Bid Package T3
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Details

Audiovisual System Elevations

T9.3