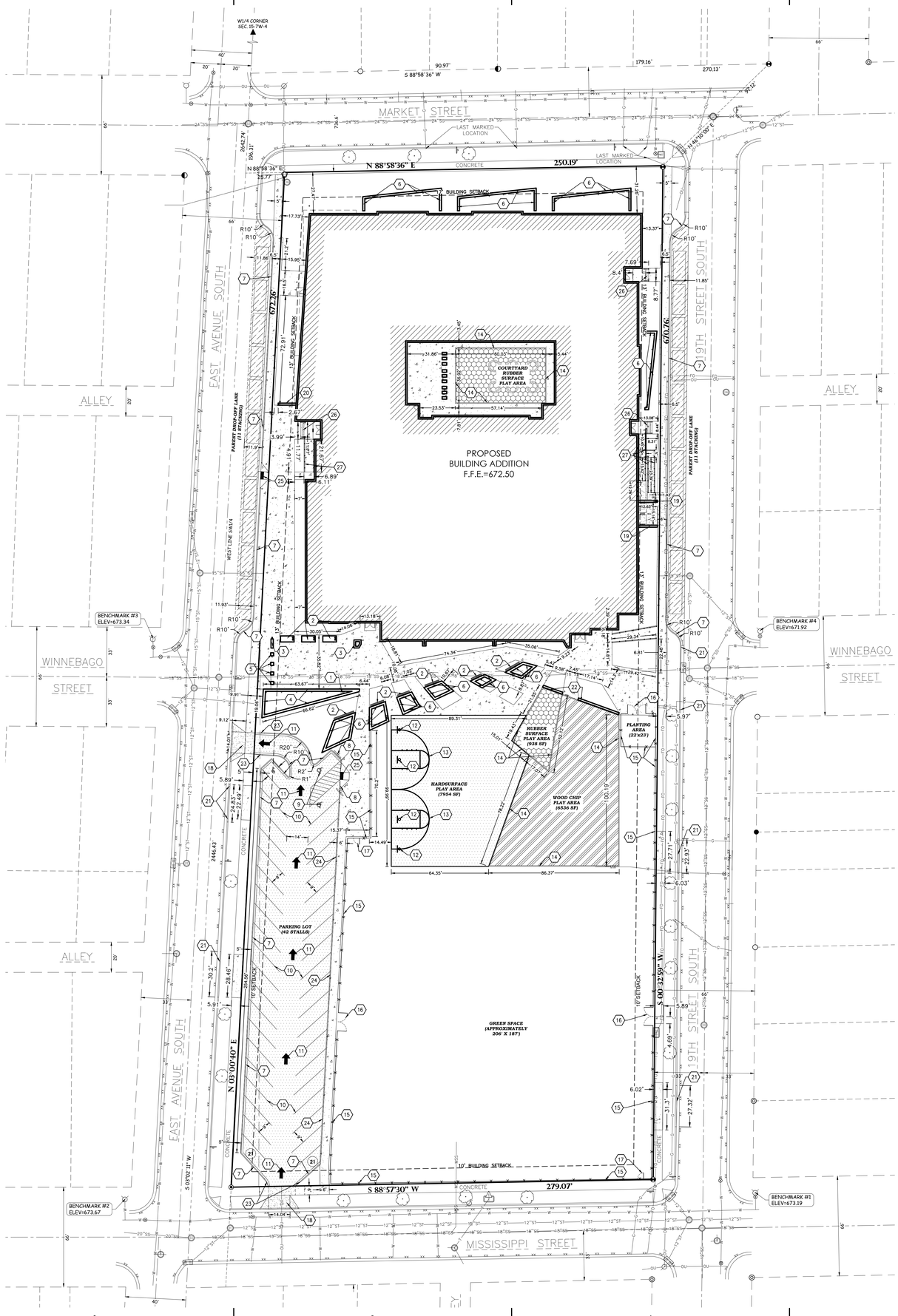

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. GRADE, LINE, AND LEVEL TO BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
3. ALL REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
4. SEE SHEET C4.0 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
5. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
6. VERIFY THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
7. BIDDERS SHALL VISIT THE SITE AND REVIEW EXISTING CONDITIONS PRIOR TO THE BID DATE.
8. PRIOR TO STARTING WORK, VERIFY WITH THE LOCAL AUTHORITIES THAT ALL REQUIRED PERMITS HAVE BEEN ACQUIRED.
9. COORDINATE CONSTRUCTION IN THE RIGHT OF WAY WITH THE LOCAL AUTHORITIES.
10. PROVIDE PROPER BARRICADES, SIGNS, AND TRAFFIC CONTROL TO MAINTAIN THRU TRAFFIC ALONG ADJACENT STREETS IN ACCORDANCE WITH LOCAL MUNICIPAL REQUIREMENTS.
11. SIDEWALK JOINTS SHALL BE INSTALLED AS INDICATED OR AS APPROVED BY THE CONSTRUCTION MANAGER.
12. ALL GENERAL LANDSCAPE AREAS SHALL BE SEEDED, FERTILIZED, AND CRIMP HAY MULCHED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

(XX) KEYNOTES:

1. FLAG POLE
2. BENCH
3. CANOPY PILLAR– SEE ARCHITECTURAL PLANS
4. 8" CONCRETE CURB
5. BOLLARD– SEE ARCHITECTURAL PLANS
6. 18" PLANTER
7. 18" CONCRETE CURB & GUTTER
8. ADA PARKING SIGN
9. ADA PARKING STALL
10. PARKING LOT STRIPING
11. DIRECTIONAL ARROW
12. BASKETBALL HOOP
13. PLAYGROUND STRIPING
14. PLAY AREA CURBING
15. 6' TALL CHAIN LINK FENCING
16. 12' SERVICE GATE
17. 4' PEDESTRIAN GATE
18. DRIVE APRON
19. DUMPSTER ENCLOSURE– SEE ARCHITECTURAL PLANS
20. ARCHITECTURAL WALL– SEE ARCHITECTURAL PLANS
21. 6" CONCRETE CURB HEAD– MATCH EXISTING
22. 18" SEAT WALL
23. 6" CURB HEAD TAPER SECTION
24. THICKENED EDGE WALK
25. ADA CURB RAMP
26. CONCRETE STAIRS W/RAILING
27. RAMP RAILING

PAVEMENT HATCH PATTERNS:

- PROPOSED STANDARD ASPHALT PAVEMENT
- PROPOSED STANDARD CONCRETE PAVEMENT
- PROPOSED REINFORCED CONCRETE PAVEMENT
- PROPOSED RUBBER SURFACE PLAY AREA
- PROPOSED WOOD CHIP PLAY AREA
- PROPOSED PERVIOUS PAVEMENT

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
NORTHWEST FLANGE BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF MISSISSIPPI STREET AND 19TH STREET SOUTH.
ELEVATION = 673.19

BENCHMARK #2
NORTHEAST FLANGE BOLT ON HYDRANT, LOCATED AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF MISSISSIPPI STREET AND EAST AVENUE SOUTH.
ELEVATION = 673.67

BENCHMARK #3
NORTHEAST FLANGE BOLT ON HYDRANT, LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF EAST AVENUE SOUTH AND WINNEBAGO STREET.
ELEVATION = 673.34

BENCHMARK #4
BURY BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF 19TH STREET SOUTH AND WINNEBAGO STREET.
ELEVATION = 671.92

UTILITY DISCLAIMER:

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Project Number: 3752

Issued For: PROGRESS SET 05/15/2025

Sheet Title: Layout Plan

Sheet Number: C2.0

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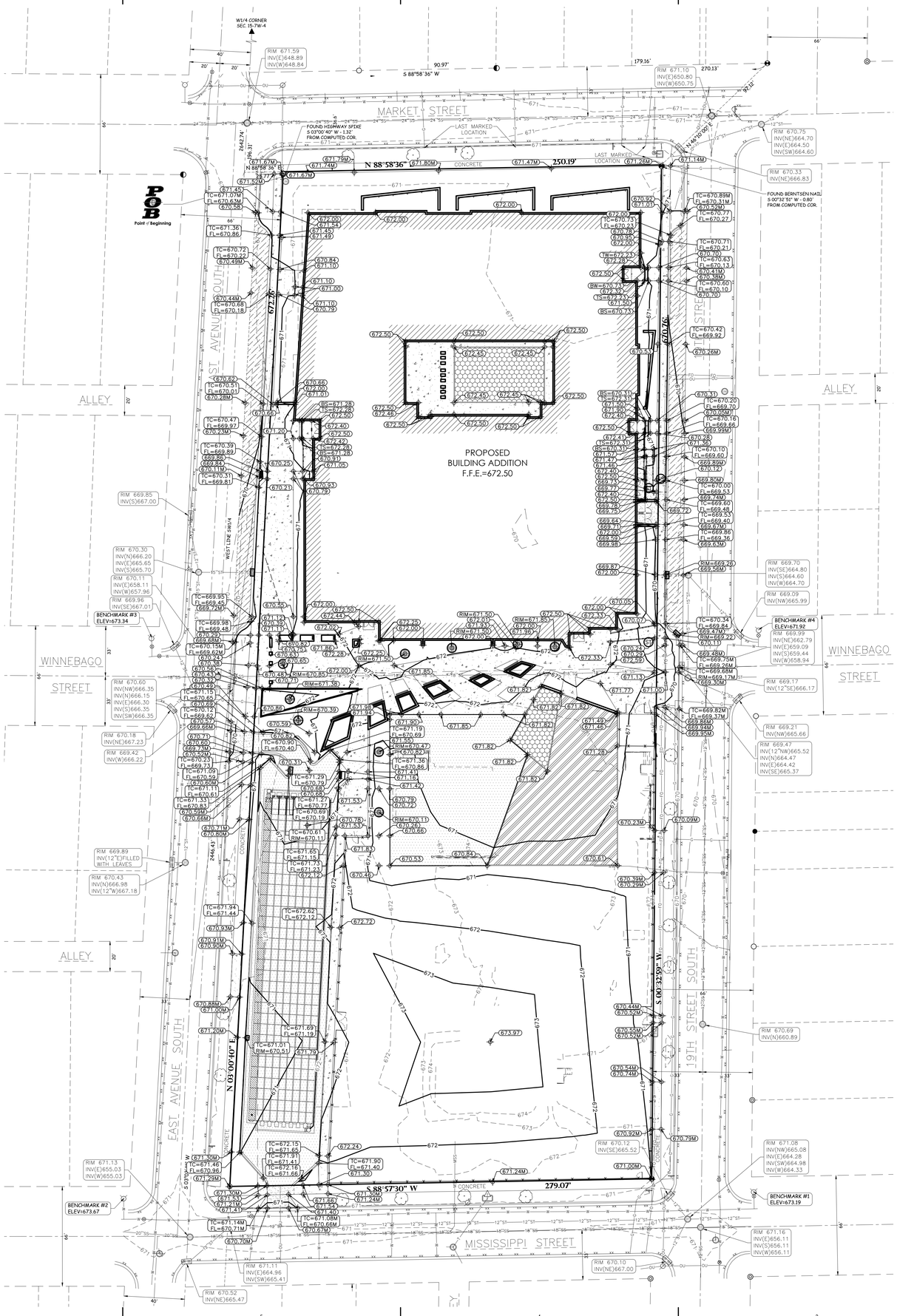

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. THE PROPOSED SITE PLAN FINISH FLOOR ELEVATION OF 672.50 EQUALS THE PROPOSED BUILDING ARCHITECTURAL FINISH FLOOR ELEVATION OF 100.00'.
3. GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
4. INSTALL AND MAINTAIN ALL REQUIRED EROSION CONTROL MEASURES IN ACCORDANCE WITH LOCAL MUNICIPAL AND DEPARTMENT OF NATURAL RESOURCES REGULATIONS.
5. 6" OF TOPSOIL SHALL BE PROVIDED IN ALL GENERAL LAWN AREAS AND 12" SHALL BE PROVIDED IN ALL PLANTING BED AREAS.
6. SEE SHEET C4.0 FOR ALL REQUIRED EROSION CONTROL ELEMENTS.
7. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED, AND/OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
8. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
9. INSTALL WisDOT TYPE HR FILTER FABRIC BENEATH ALL RIP RAP.
10. EXCESS TOPSOIL SHALL BE REMOVED FROM SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER. COORDINATE WITH OWNER FOR LOCATION OF STOCKPILE IF THE OWNER CHOOSES TO SALVAGE EXCESS TOPSOIL FOR FUTURE USE. SILT FENCE SHALL BE PLACED AROUND STOCKPILE.
11. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
12. THE LOCAL MUNICIPALITY SHALL BE CONTACTED PRIOR TO ANY EXCAVATION IN THE PUBLIC RIGHT-OF-WAY.
13. THE CONTRACTOR SHALL HAVE A TRAFFIC CONTROL PLAN APPROVED PRIOR TO WORK COMMENCING.
14. THE LOCAL MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES IF NEEDED.
15. GRADES AT BUILDING EDGE SHALL BE 6" BELOW FINISHED FLOOR ELEVATION EXCEPT AT DOOR WAY ENTRANCES OR UNLESS OTHERWISE NOTED.

GRADING LEGEND:

- EXISTING CONTOUR — 712 —
- PROPOSED CONTOUR — 712 —
- PROPOSED SPOT ELEVATION 892.28
- PROPOSED RIM ELEVATION RIM=893.56
- PROPOSED TOP OF CURB ELEVATION TC=893.56
- PROPOSED FLOW LINE ELEVATION FL=893.56
- PROPOSED TOP OF STAIR ELEVATION TS=893.56
- PROPOSED BOTTOM OF STAIR ELEVATION BS=893.56
- PROPOSED TOP OF WALL ELEVATION TW=893.56
- PROPOSED BOTTOM OF WALL ELEVATION BW=893.56
- PROPOSED MATCH ELEVATION (CONTRACTOR TO VERIFY) 892.05M
- PROPOSED STORM SEWER MANHOLE ST XXX / XXX
- PROPOSED STORM SEWER CLEANOUT XXX / XXX
- PROPOSED STORM SEWER INLET XXX / XXX
- PROPOSED STORM SEWER CURB INLET XXX / XXX
- PROPOSED SANITARY SEWER CLEANOUT XXX / XXX
- PROPOSED DOWNSPOUT CONNECTION XXX / XXX

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
NORTHWEST FLANGE BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF MISSISSIPPI STREET AND 19TH STREET SOUTH.
ELEVATION = 673.19

BENCHMARK #2
NORTHEAST FLANGE BOLT ON HYDRANT, LOCATED AT THE NORTHWEST QUADRANT OF THE INTERSECTION OF MISSISSIPPI STREET AND EAST AVENUE SOUTH.
ELEVATION = 673.67

BENCHMARK #3
NORTHEAST FLANGE BOLT ON HYDRANT, LOCATED AT THE NORTHWEST CORNER OF THE INTERSECTION OF EAST AVENUE SOUTH AND WINNEBAGO STREET.
ELEVATION = 673.34

BENCHMARK #4
BURY BOLT ON HYDRANT, LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF 19TH STREET SOUTH AND WINNEBAGO STREET.
ELEVATION = 671.92

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Sheet Title: Grading Plan

Sheet Number: C3.0

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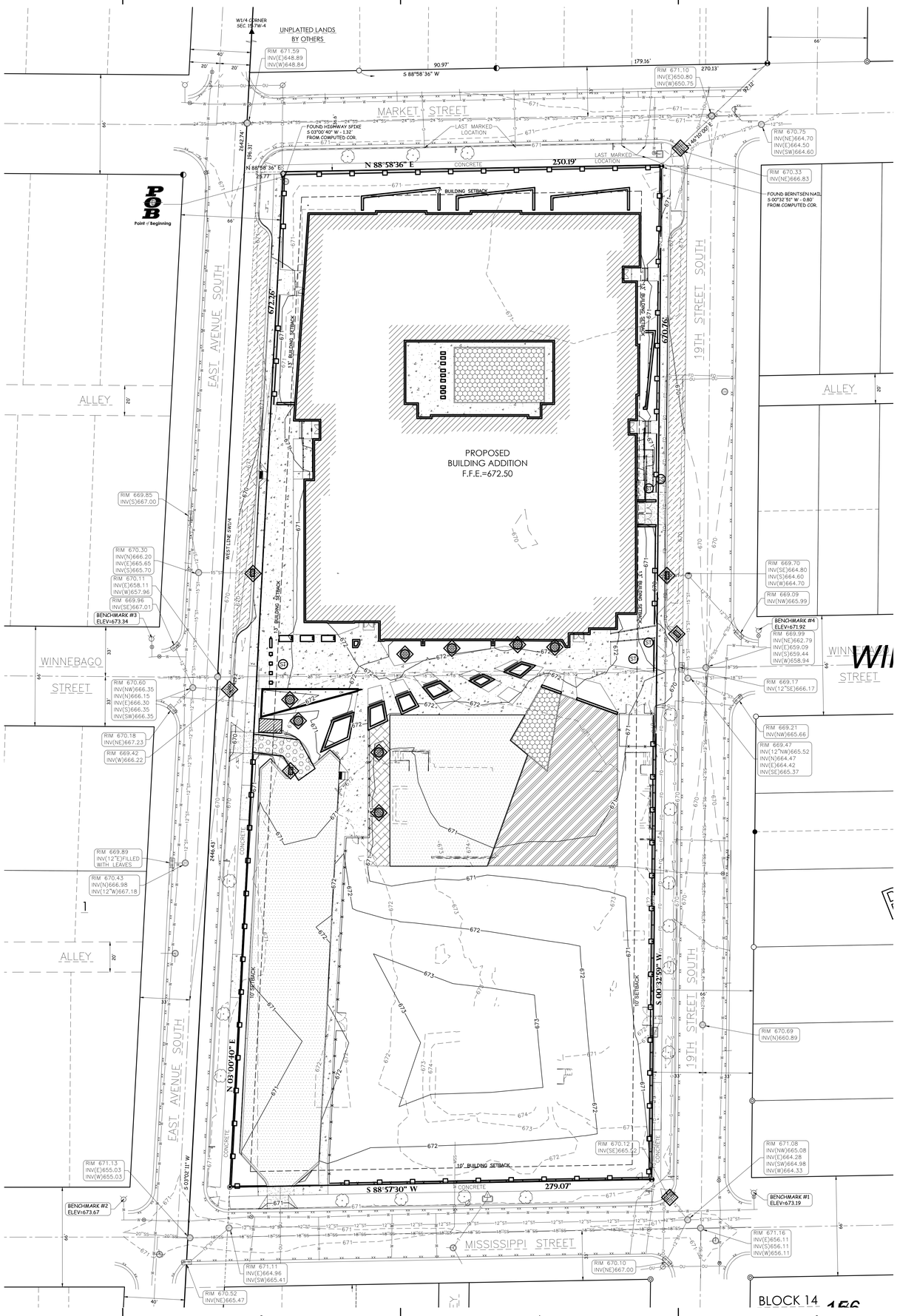

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. NOTIFY THE LOCAL MUNICIPALITY AT LEAST 2 WORKING DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
3. INSTALL ALL TEMPORARY EROSION CONTROL ELEMENTS PRIOR TO THE START OF DEMOLITION/CONSTRUCTION.
4. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
5. CRUSHED ROCK DRIVES FOR SEDIMENT TRACKING UTILIZING 3" CRUSHED ROCK SHALL BE MAINTAINED AT ALL CONSTRUCTION ENTRANCES TO THE SITE. THE ROCK DRIVE SHALL BE A MINIMUM OF 12" THICK AND BE A MINIMUM OF 50 FEET IN LENGTH BY THE WIDTH OF THE DRIVEWAY.
6. OFFSITE SEDIMENT DEPOSITS RESULTING FROM STORMWATER RUNOFF SHALL BE CLEANED BY THE END OF THE NEXT WORKDAY. OFFSITE SEDIMENT DEPOSITS RESULTING FROM CONTRACTOR ACTIVITIES, INCLUDING SOIL TRACKING, SHALL BE CLEANED EACH WORKDAY. EXCESSIVE AMOUNTS OF SEDIMENT OR DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS ON ADJACENT STREETS SHALL SWEPT MECHANICALLY OR MANUALLY AT LEAST WEEKLY AND BEFORE IMMINENT RAINFALL.
7. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREAS, INCLUDING SOIL STOCKPILES, THAT ARE LEFT INACTIVE FOR MORE THAN 7 DAYS SHALL BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHER APPROVED METHODS.
8. WASTE MATERIAL THAT IS GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO RECEIVING WATERS.
9. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF EACH WORK DAY.
10. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5" OR MORE. MAKE NEEDED REPAIRS AND DOCUMENT ALL ACTIVITIES AS PER THE REQUIREMENTS OF THE NOTICE OF INTENT SUBMITTED BY THE PROJECT CIVIL ENGINEER.
11. ALL TEMPORARY EROSION CONTROL ELEMENTS SHALL REMAIN IN PLACE UNTIL A SUFFICIENT GROWTH OF VEGETATION IS ESTABLISHED AND THEN BE REMOVED AS PART OF THE BASE BID.
12. IF SEDIMENT LADEN WATER NEEDS TO BE REMOVED FROM THE SITE, FILTER BAGS OR SCREENING SHALL BE USED IN ACCORDANCE WITH WI DNR TECHNICAL STANDARD 1061 TO PREVENT SEDIMENT DISCHARGE TO THE MAXIMUM EXTENT PRACTICABLE.
13. COORDINATE ALL EARTHWORK ACTIVITIES WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
14. INSTALL WisDOT TYPE HR FILTER FABRIC BENEATH ALL RIP RAP.
15. IF BARE SOIL IS EXPOSED DURING THE WINTER MONTHS, STABILIZATION BY MULCHING OR ANIONIC POLYACRYLAMIDE SHALL OCCUR PRIOR TO SNOWFALL OR GROUND FREEZE.
16. SILT FENCE SHALL BE INSTALLED AROUND THE TOPSOIL STOCKPILE.
17. THE CONTRACTOR SHALL PERFORM INSPECTIONS AND MONITORING OF EROSION CONTROL PRACTICES IN ACCORDANCE WITH THE WI DNR "CONSTRUCTION SITE INSPECTION REPORT" FORM 3400-187. THIS FORM CAN BE FOUND IN THE CONSTRUCTION SPECIFICATIONS.

EROSION CONTROL LEGEND:

EXISTING CONTOUR — — — 888 — — —

PROPOSED CONTOUR ——— 888 ———

PROPOSED SILT FENCE

PROPOSED INLET PROTECTION

EROSION CONTROL BLANKET

ROCK CONSTRUCTION ENTRANCE

CONCRETE WASHOUT AREA

STORM WATER OVERLAND FLOW DIRECTION

EROSION CONTROL SEQUENCING:

1. INSTALL PERIMETER EROSION CONTROL
2. BEGIN DEMOLITION.
3. BEGIN ROUGH GRADING AND UTILITY INSTALLATION
4. DURING GRADING ACTIVITIES EXISTING GRASS AND VEGETATION, TO BE REMOVED, SHALL REMAIN IN PLACE FOR AS LONG AS POSSIBLE, TO AVOID SEDIMENT TRANSPORT.
5. TEMPORARY STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS.
6. FINAL STABILIZATION ACTIVITY SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE AND FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
7. IF DISTURBED AREAS MUST BE LEFT OVER WINTER, AN ANIONIC POLYACRYLAMIDE SHALL BE APPLIED TO ALL DISTURBED AREAS PRIOR TO GROUND FREEZE. SEE SPECIFICATIONS FOR DETAILS.

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

BENCHMARK #1
NORTHWEST FLANGE BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF MISSISSIPPI STREET AND 19TH STREET SOUTH.
ELEVATION = 673.19

BENCHMARK #2
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ELEVATION = 673.67

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ELEVATION = 673.34

BENCHMARK #4
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ELEVATION = 671.92

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Issued For: PROGRESS SET 05/15/2025

Sheet Title: Erosion Control Plan

Sheet Number: C4.0

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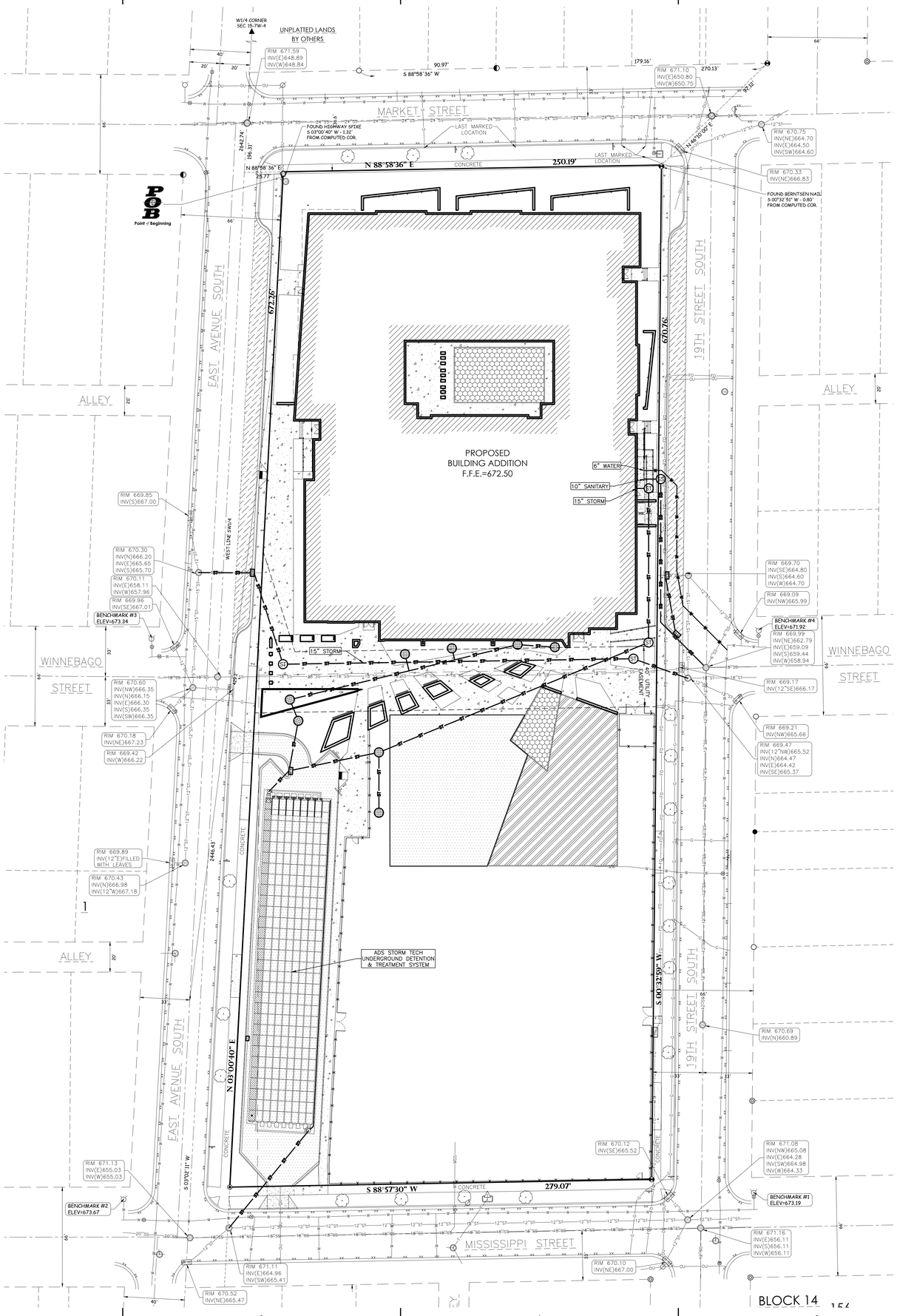

GENERAL NOTES:

1. CONTRACTOR SHALL LOCATE ALL PUBLIC AND PRIVATE UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. GRADE, LINE, AND LEVEL SHALL BE REVIEWED IN THE FIELD BY THE CONSTRUCTION MANAGER.
3. ANY EXISTING UTILITIES NOT SHOWN ON THIS DOCUMENT WHICH NEED TO BE REMOVED, RELOCATED AND OR ADJUSTED SHALL BE THE RESPONSIBILITY OF THE SITE GRADING CONTRACTOR.
4. REFER TO THE PROPOSED BUILDING MECHANICAL/PLUMBING PLANS TO VERIFY EXACT CONNECTION LOCATIONS AND SIZES OF PROPOSED SANITARY SEWER AND WATER LATERALS.
5. COORDINATE ALL UTILITY WORK WITH THE RESPECTIVE TRADES RESPONSIBLE FOR THE INSTALLATION OF GAS, CABLE, TELEPHONE AND ELECTRICAL (INCLUDING MAIN SERVICE, SITE LIGHTING, CONDUITS AND SIGNAGE).
6. COORDINATE UTILITY SERVICE DISCONNECTIONS/OUTAGES WITH OWNER AND ANY IMPACTED NEIGHBORS. MINIMIZE DISRUPTIONS TO THE MAXIMUM EXTENT PRACTICAL.
7. COORDINATE ALL WORK WITHIN THE PUBLIC RIGHT OF WAY WITH THE LOCAL MUNICIPALITY.
8. ALL TESTING AND INSPECTION SHALL BE DONE IN ACCORDANCE WITH SPS 382.21.
9. THE PROPOSED WATER MAIN SHALL HAVE A MINIMUM COVER OF 7'-6" TO THE TOP OF PIPE FROM PROPOSED FINISHED GRADE. SEE SHEET C3.0 FOR PROPOSED FINISHED GRADE.
10. THE MUNICIPALITY SHALL BE CONTACTED PRIOR TO ANY EXCAVATION IN THE PUBLIC RIGHT-OF-WAY, AND PRIOR TO CONNECTING SANITARY SEWER AND WATER LATERALS TO THE PUBLIC MAINS.
11. THE CONTRACTOR SHALL HAVE A TRAFFIC CONTROL PLAN APPROVED PRIOR TO WORK COMMENCING.
12. THE MUNICIPALITY SHALL OPERATE ALL EXISTING WATER VALVES, IF NEEDED.
13. FIELD VERIFY INVERT ELEVATION OF THE SANITARY SEWER AND WATER PUBLIC MAIN, AT THE LOCATION OF THE SERVICE LATERAL CONNECTIONS, PRIOR TO CONNECTING THE LATERALS TO THE PUBLIC MAIN.
14. INSTALL WisDOT TYPE HR FILTER FABRIC BENEATH PROPOSED RIP RAP.

UTILITY LEGEND:

- PROPOSED STORM SEWER — ST ST ST
- PROPOSED SANITARY SEWER — SS SS SS
- PROPOSED WATER MAIN — W W W
- PROPOSED STORM SEWER MANHOLE (ST)
- PROPOSED STORM SEWER INLET
- PROPOSED STORM SEWER CURB INLET

BENCHMARK:

ELEVATIONS ARE REFERENCED TO NAVD 88 DATUM.

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NORTHWEST FLANGE BOLT ON HYDRANT, LOCATED AT THE NORTHEAST QUADRANT OF THE INTERSECTION OF MISSISSIPPI STREET AND 19TH STREET SOUTH.
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Issued For: PROGRESS SET 05/15/2025

Sheet Title: Utility Plan

Sheet Number: C5.0

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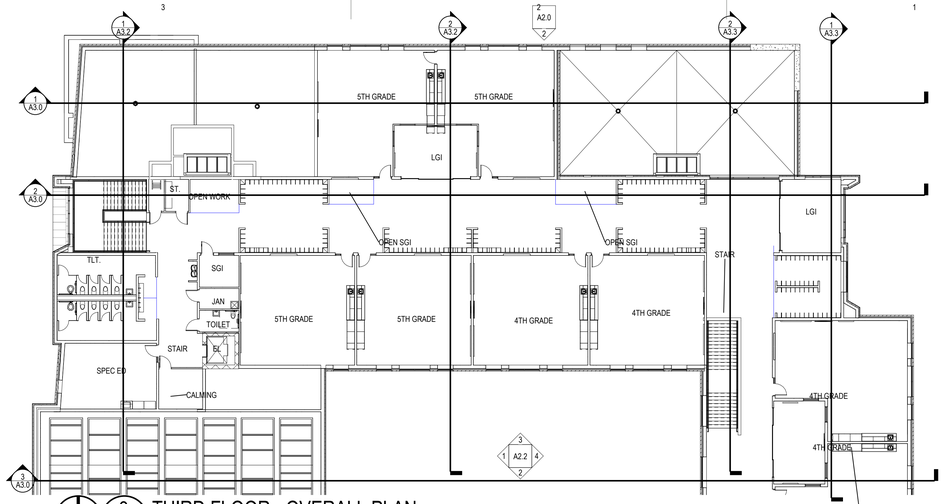
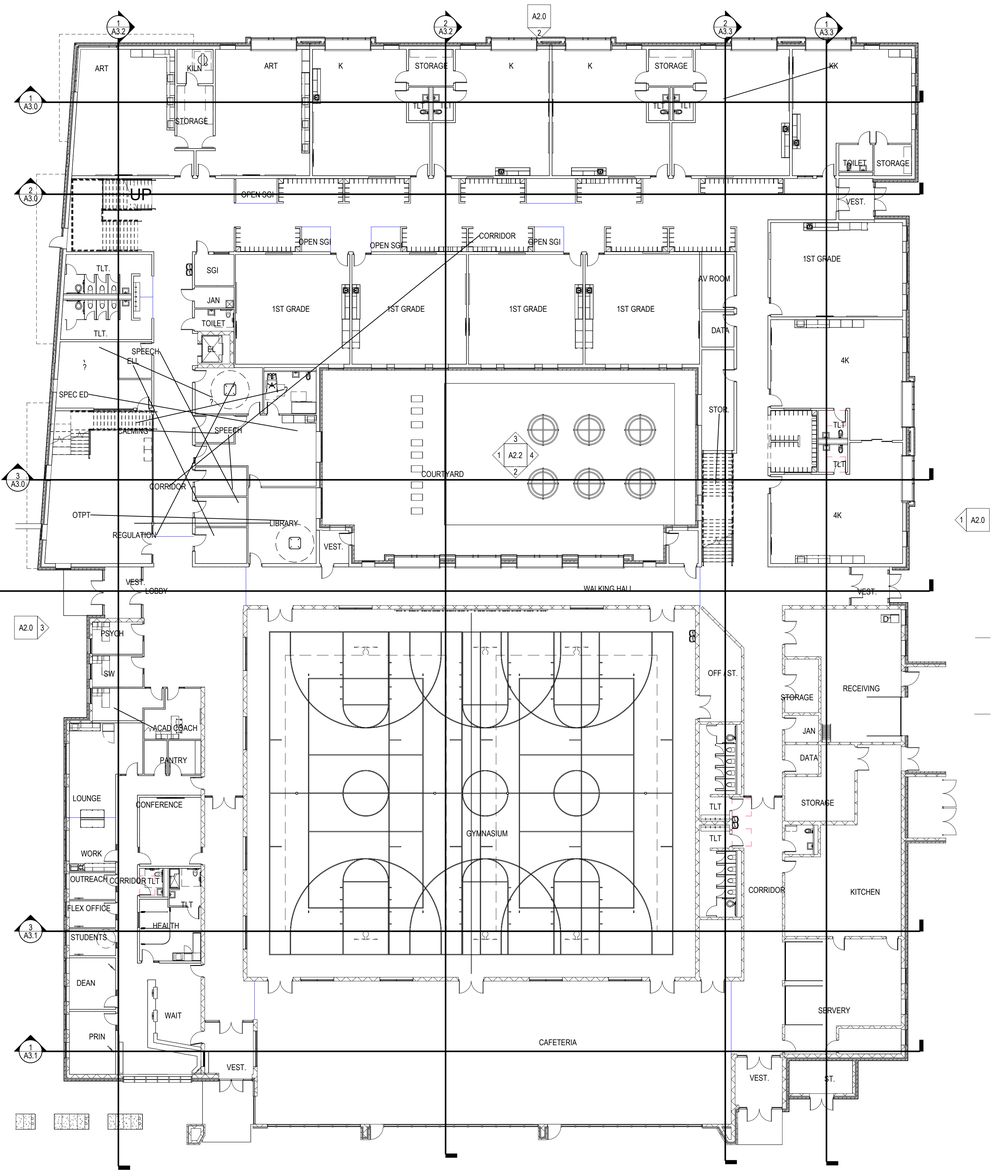


3 THIRD FLOOR - OVERALL PLAN
A1.0 Scale: 1/16" = 1'-0"



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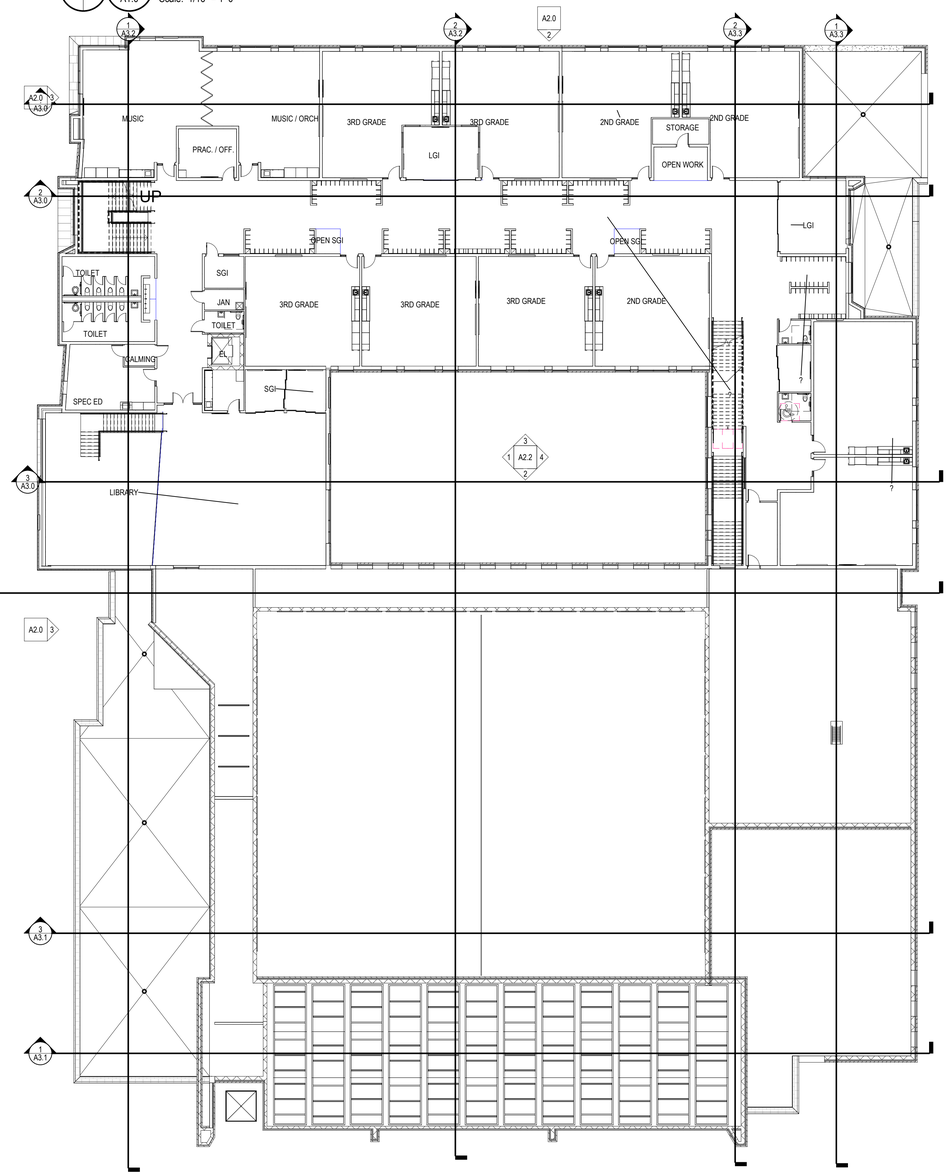

2 SECOND FLOOR - OVERALL PLAN
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Project Title:
New Building for
New Elementary School
La Crosse School District
807 East Ave S
La Crosse, WI 54601

REVISIONS:

#	DATE	DESCRIPTION

NOT FOR CONSTRUCTION

Project Number:
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Sheet Title:
OVERALL FLOOR PLANS

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GENERAL NOTES

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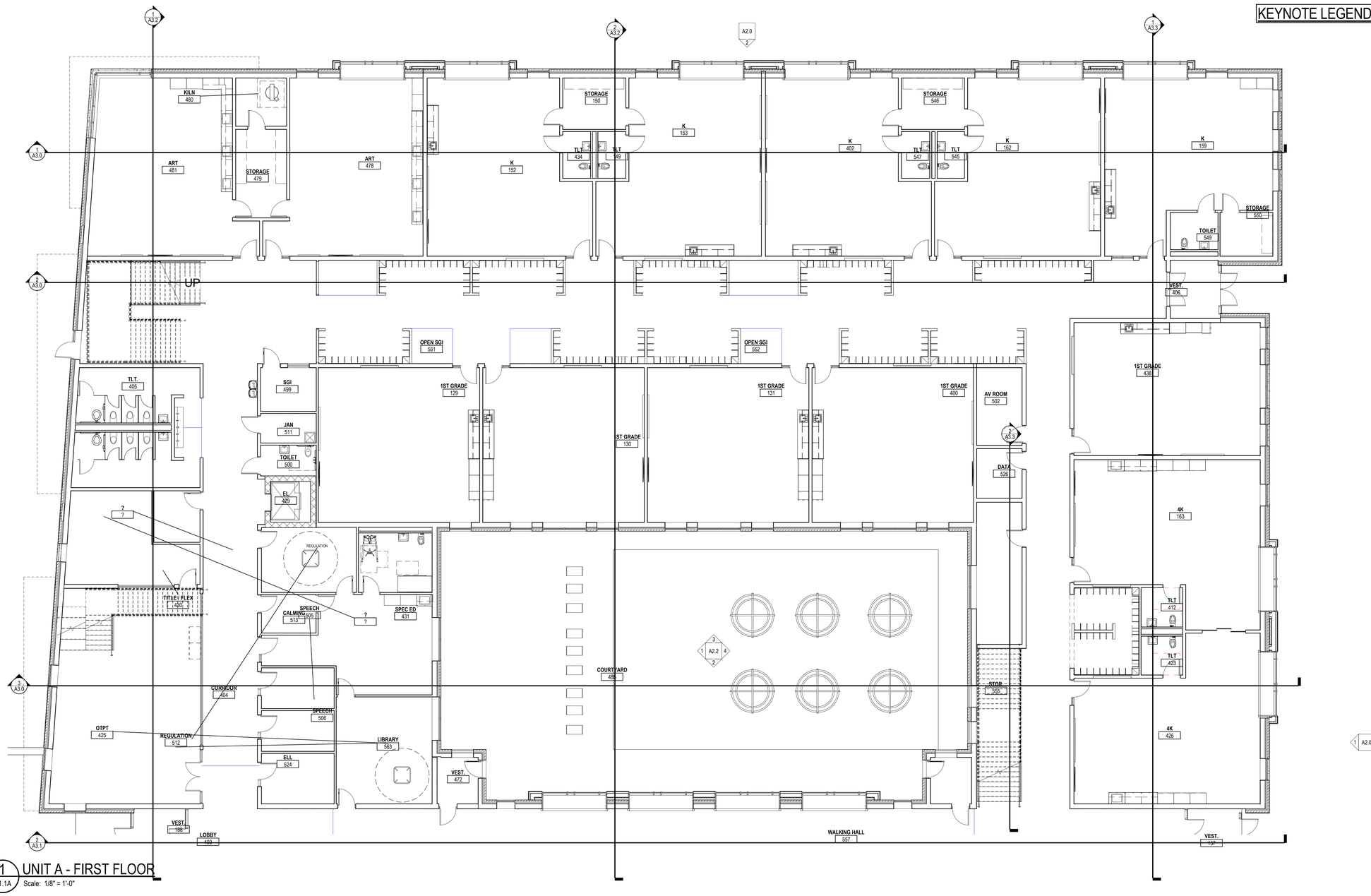
KEYNOTE LEGEND



1 A1.1A — UNIT A - FIRST FLOOR
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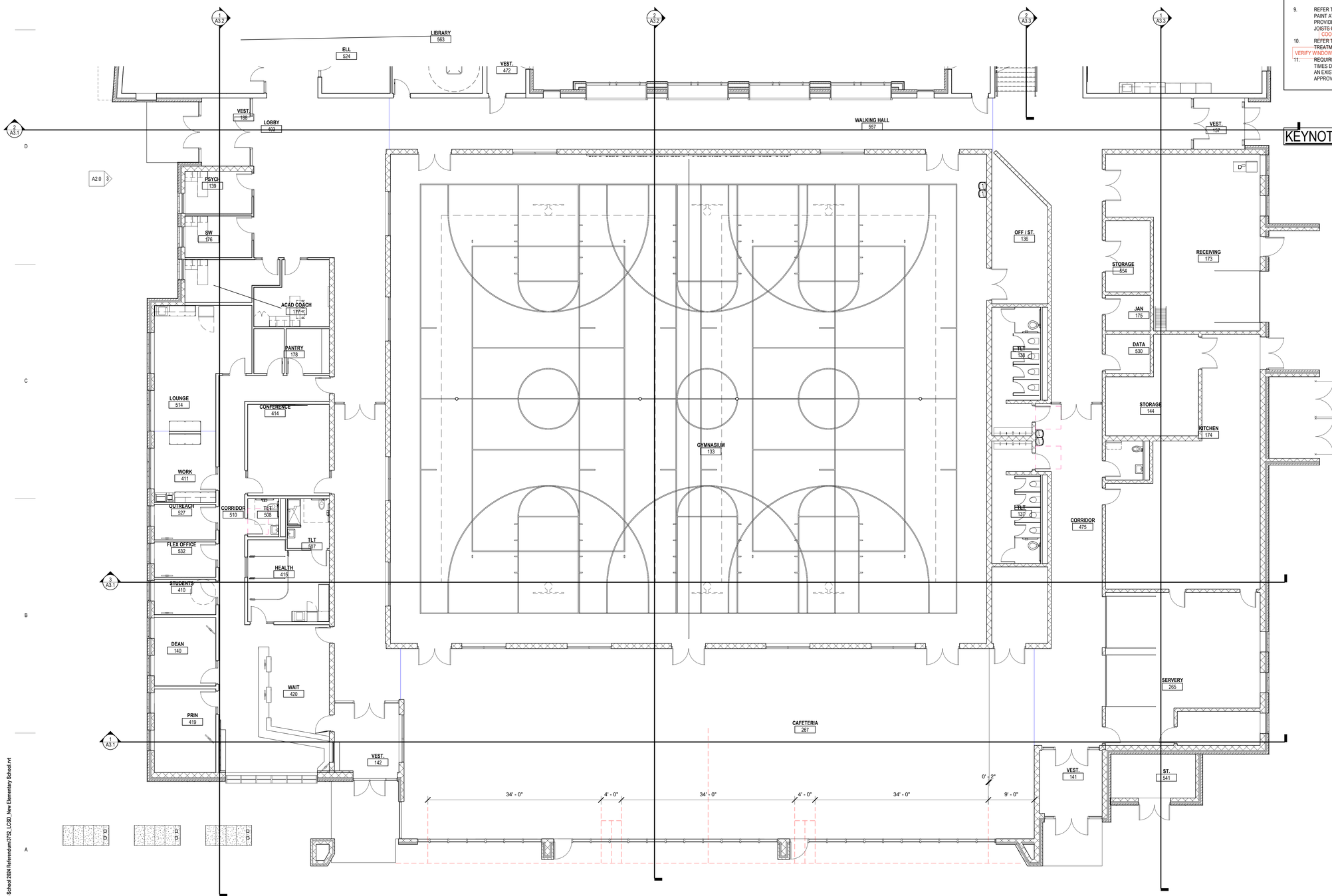

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KEYNOTE LEGEND

1 A1.1B UNIT B - FIRST FLOOR
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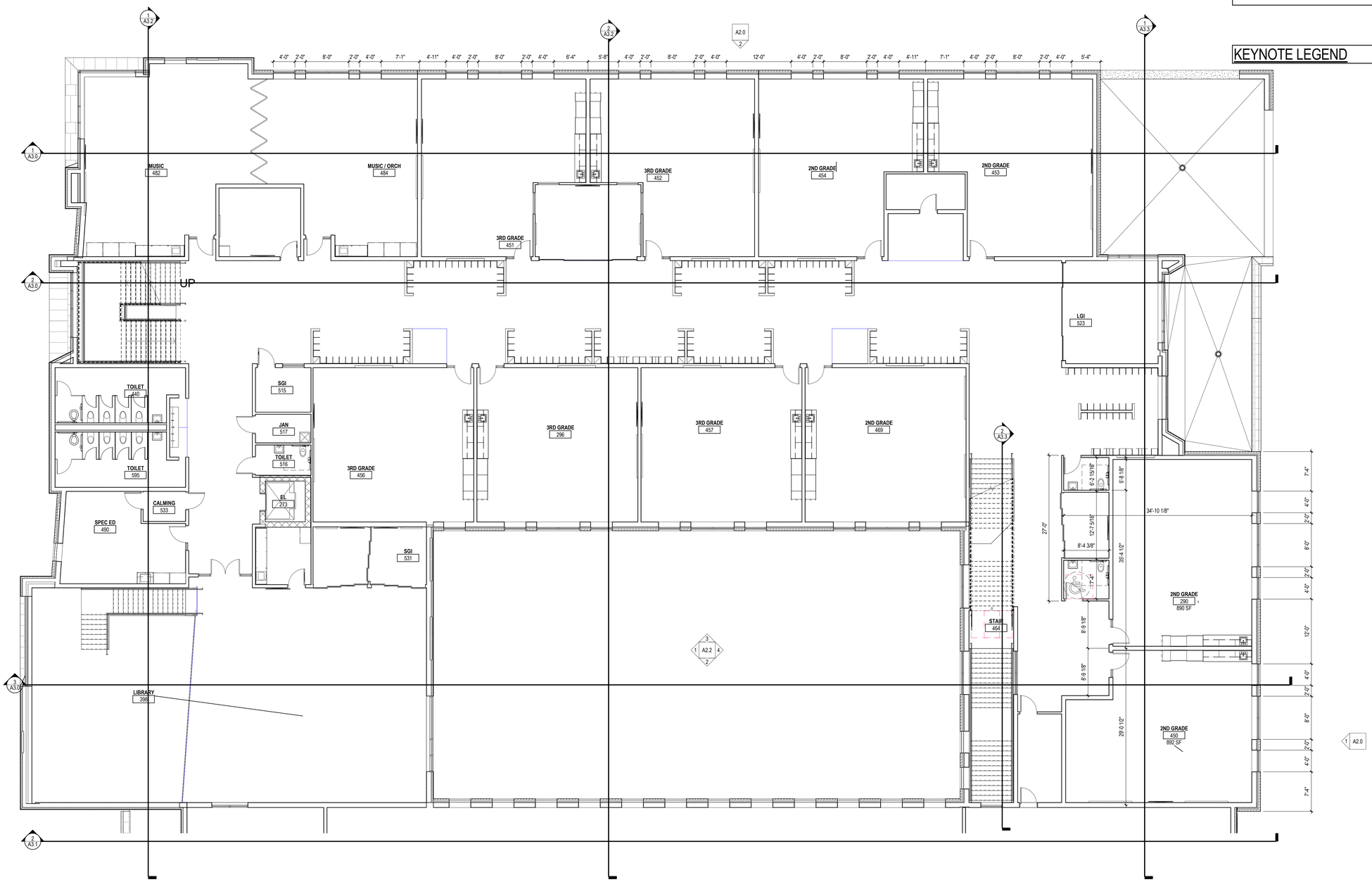

1 A1.2A — UNIT A - SECOND FLOOR
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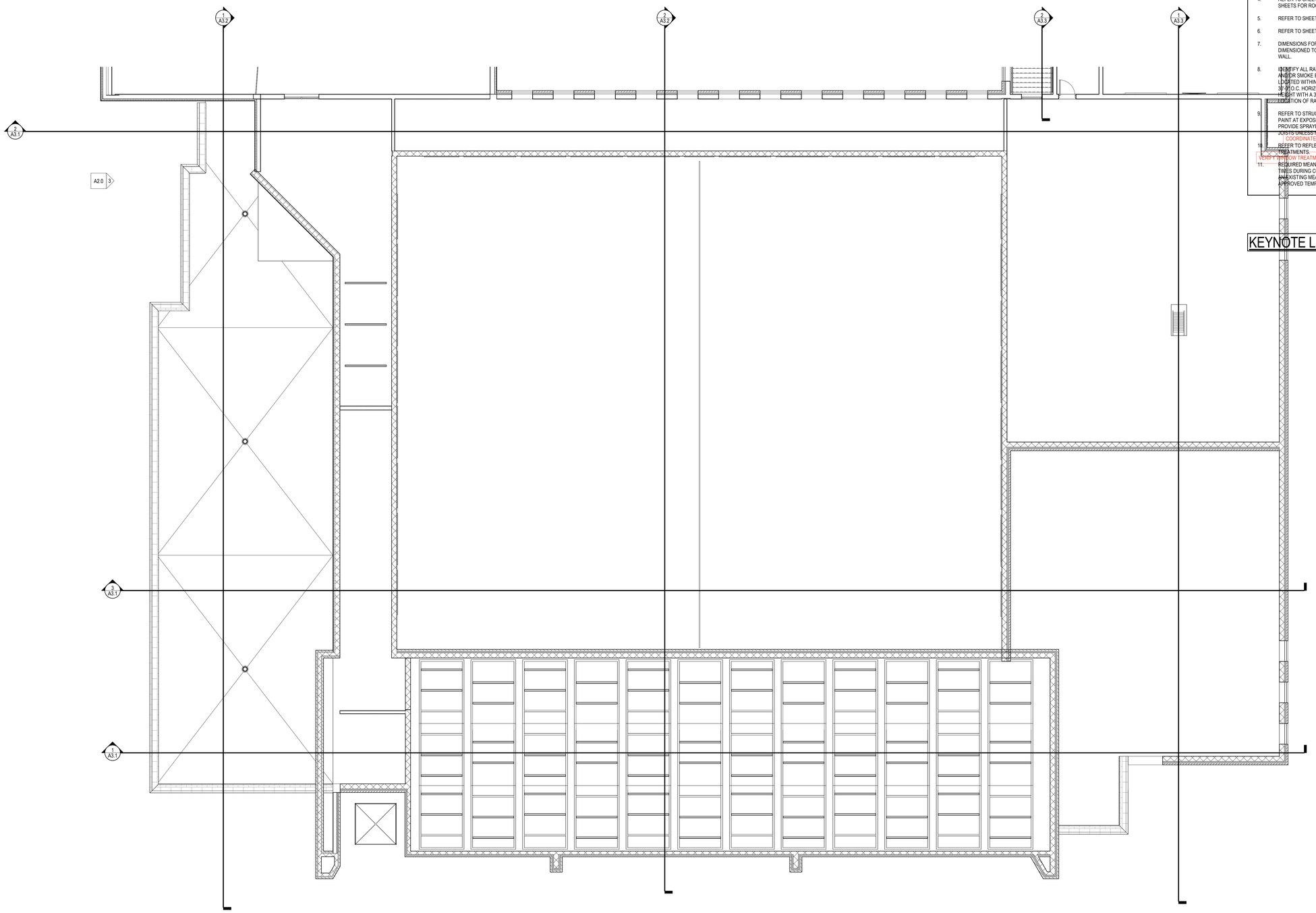

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1 UNIT B - SECOND FLOOR
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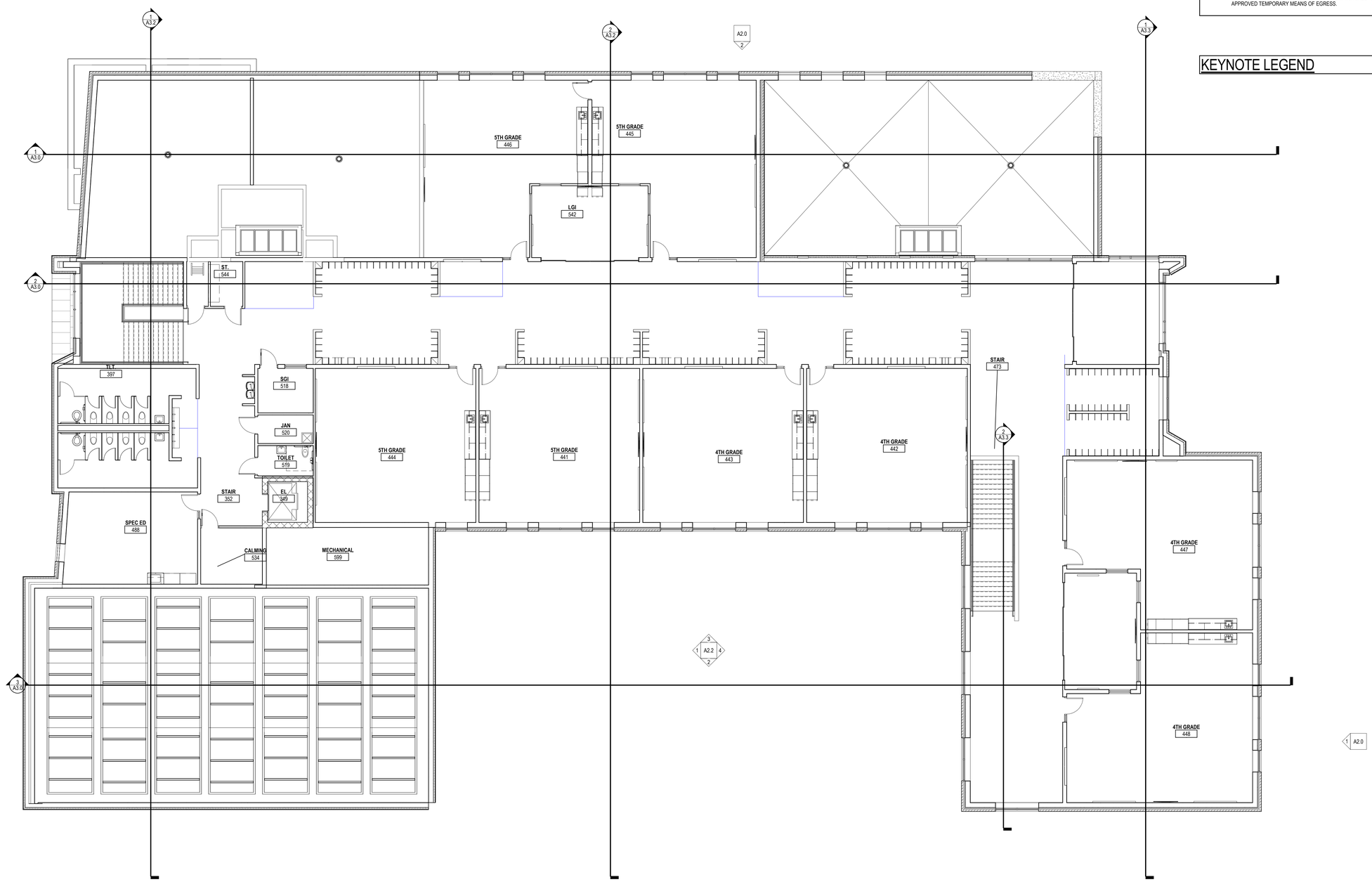

1 A1.3A — UNIT A - THIRD FLOOR
A2.0 3
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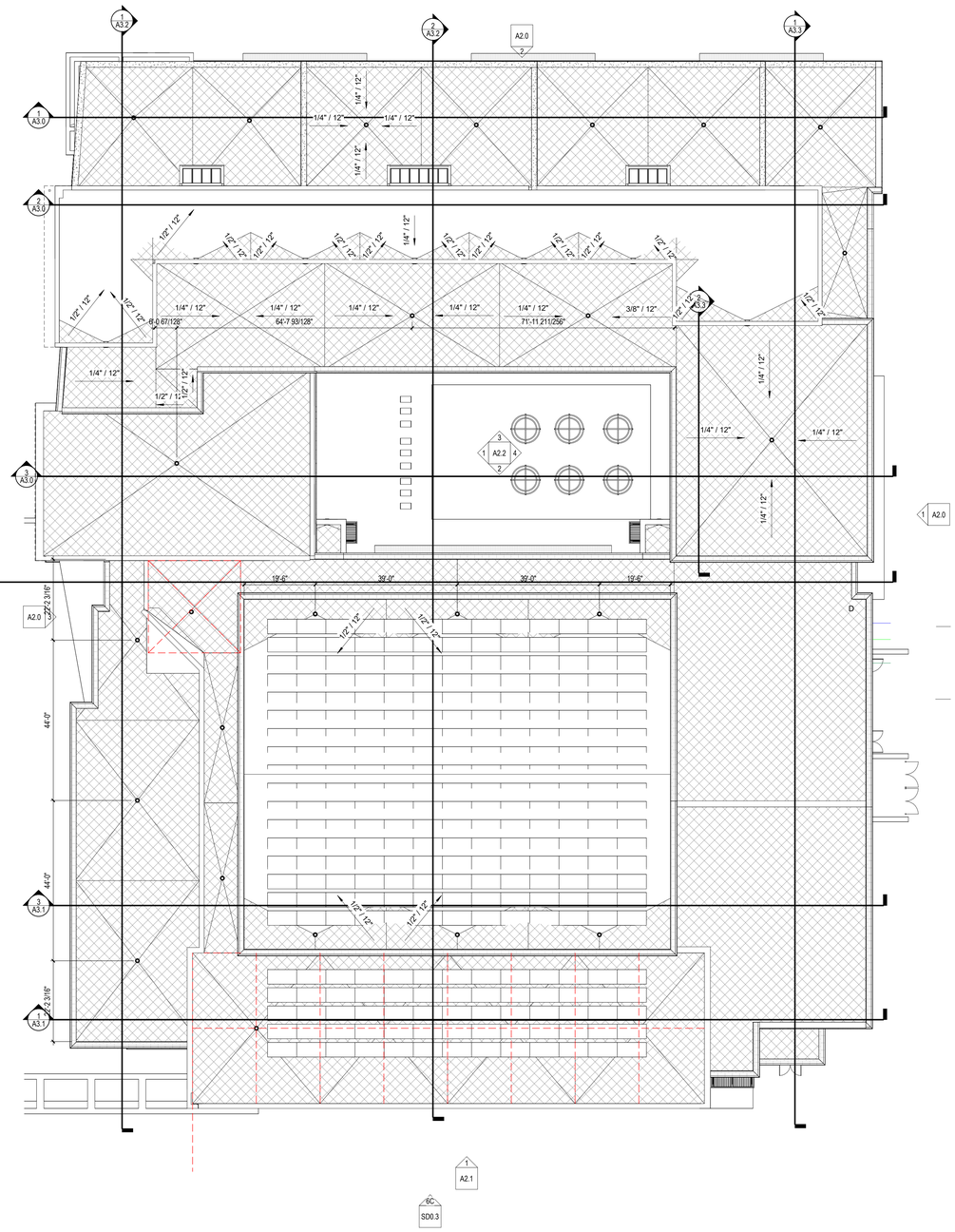

ROOF PLAN LEGEND & NOTES

VERIFY ALL ROOF TYPES & COORDINATE WITH OWNER. DELETE ALL TYPES NOT BEING USED IN PROJECT ONCE CONFIRMED.

ROOF TYPE 1 (RT-1):

- EPDM SHEET
- COVERBOARD
- 5" INSULATION DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS; TAPERED INSULATION AS SHOWN ON PLAN
- THERMAL BARRIER AT SPRAY APPLIED FIRE PROOFING LOCATIONS ONLY - SEE STRUCTURAL
- SLOPED STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 2 (RT-2):

- EPDM SHEET
- COVERBOARD
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- THERMAL BARRIER AT SPRAY APPLIED FIRE PROOFING LOCATIONS ONLY - SEE STRUCTURAL
- FLAT STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 3 (RT-3):

- EPDM SHEET
- COVERBOARD
- 5" INSULATION DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS; TAPERED INSULATION AS SHOWN ON PLAN
- THERMAL BARRIER
- SLOPED STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 4 (RT-4):

- EPDM SHEET
- COVERBOARD
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- THERMAL BARRIER
- FLAT STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ENSURE THIS TAG IS SHOWN AT ALL ROOF DRAINS & PERIMETER EDGES

#" DENOTES APPROXIMATE THICKNESS OF TAPERED INSULATION

DENOTES WALKWAY PAVERS

DENOTES ROOF CRICKETS;
MAINTAIN 1/2" PER FOOT SLOPE TO DRAINS

DENOTES TAPERED INSULATION;
MAINTAIN 1/4" PER FOOT SLOPE TO DRAINS

1. ALL ROOF SLOPES TO BE MINIMUM 1/4" PER FOOT UNLESS NOTED OTHERWISE.
2. ALL ROOF TOP CURBS TO BE SADDLED WITH MINIMUM 1/2" PER FOOT PITCH.
3. NOT ALL ROOF PENETRATIONS ARE SHOWN. VERIFY PENETRATIONS WITH ALL BUILDING TRADES.
4. SEE HVAC DRAWINGS FOR SIZES, QUANTITIES, LOCATIONS AND TYPES OF HVAC PENETRATIONS AND ROOF TOP MOUNTED EQUIPMENT.
5. SEE DETAIL ___ FOR VENT PIPE FLASHING DETAIL. VERIFY ALL LOCATIONS AND QUANTITIES W/ PLUMBING CONTRACTOR.
6. SEE DETAIL ___ FOR CURB FLASHING DETAIL.
7. SEE DETAIL ___ FOR TYPICAL ROOF DRAIN DETAIL.
8. SEE DETAIL ___ FOR TYPICAL OVERFLOW SCUPPER DETAIL.
9. SEE DETAIL ___ FOR TYPICAL ROOF SADDLES.
10. SEE DETAIL ___ FOR ROOF LADDER.

KEYNOTE LEGEND

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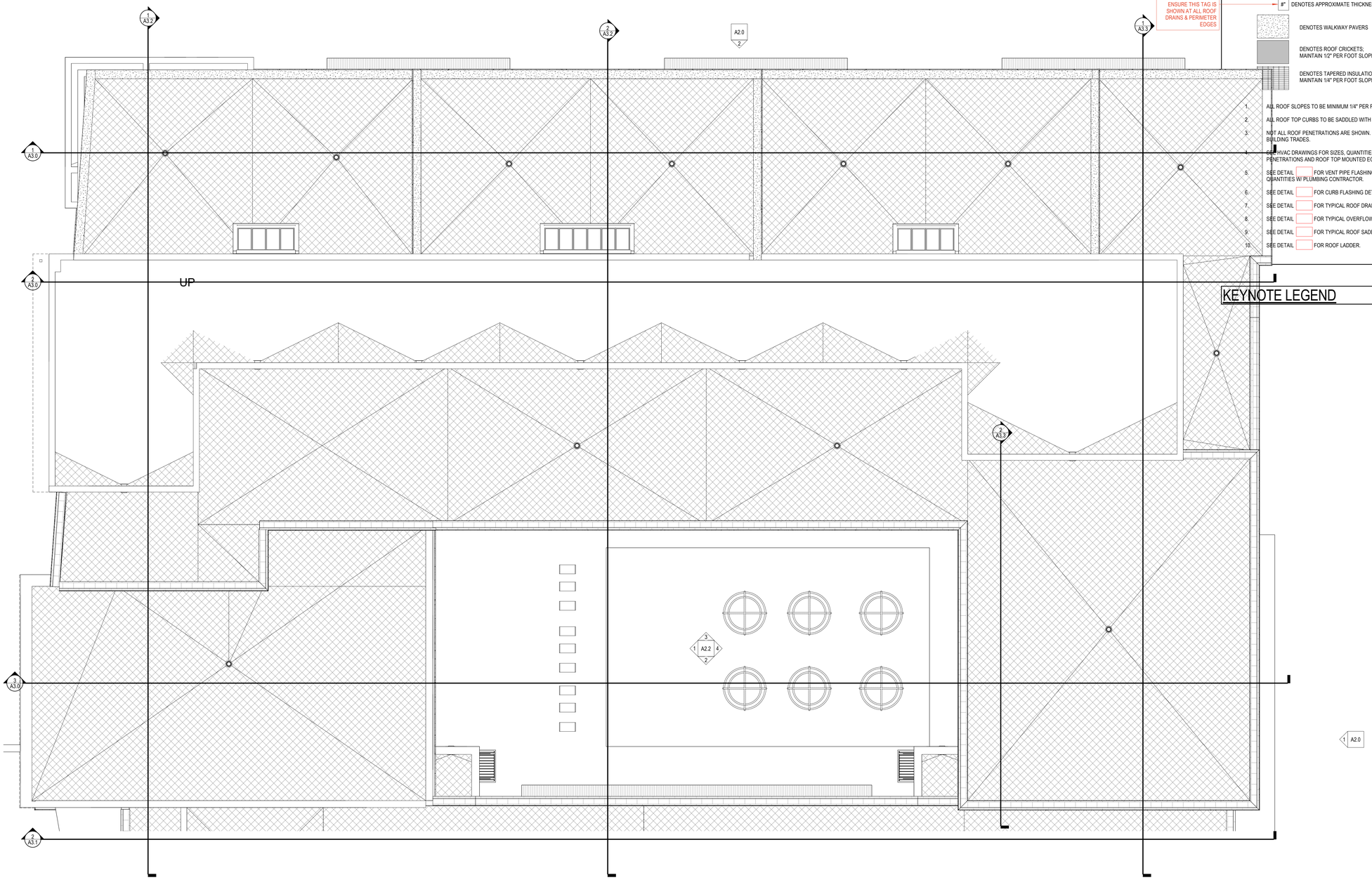

ROOF PLAN LEGEND & NOTES

VERIFY ALL ROOF TYPES & COORDINATE WITH OWNER. DELETE ALL TYPES NOT BEING USED IN PROJECT ONCE CONFIRMED.

ROOF TYPE 1 (RT-1):

- EPDM SHEET
- COVERBOARD
- 5" INSULATION DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS; TAPERED INSULATION AS SHOWN ON PLAN
- THERMAL BARRIER AT SPRAY APPLIED FIRE PROOFING LOCATIONS ONLY - SEE STRUCTURAL
- SLOPED STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 2 (RT-2):

- EPDM SHEET
- COVERBOARD
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- THERMAL BARRIER AT SPRAY APPLIED FIRE PROOFING LOCATIONS ONLY - SEE STRUCTURAL
- FLAT STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 3 (RT-3):

- EPDM SHEET
- COVERBOARD
- 5" INSULATION DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS; TAPERED INSULATION AS SHOWN ON PLAN
- THERMAL BARRIER
- SLOPED STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 4 (RT-4):

- EPDM SHEET
- COVERBOARD
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- THERMAL BARRIER
- FLAT STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ENSURE THIS TAG IS SHOWN AT ALL ROOF DRAINS & PERIMETER EDGES

#" DENOTES APPROXIMATE THICKNESS OF TAPERED INSULATION

DENOTES WALKWAY PAVERS

DENOTES ROOF CRICKETS;
MAINTAIN 1/2" PER FOOT SLOPE TO DRAINS

DENOTES TAPERED INSULATION;
MAINTAIN 1/4" PER FOOT SLOPE TO DRAINS

1. ALL ROOF SLOPES TO BE MINIMUM 1/4" PER FOOT UNLESS NOTED OTHERWISE.
2. ALL ROOF TOP CURBS TO BE SADDLED WITH MINIMUM 1/2" PER FOOT PITCH.
3. NOT ALL ROOF PENETRATIONS ARE SHOWN. VERIFY PENETRATIONS WITH ALL BUILDING TRADES.
4. SEE HVAC DRAWINGS FOR SIZES, QUANTITIES, LOCATIONS AND TYPES OF HVAC PENETRATIONS AND ROOF TOP MOUNTED EQUIPMENT.
5. SEE DETAIL ___ FOR VENT PIPE FLASHING DETAIL. VERIFY ALL LOCATIONS AND QUANTITIES W/ PLUMBING CONTRACTOR.
6. SEE DETAIL ___ FOR CURB FLASHING DETAIL.
7. SEE DETAIL ___ FOR TYPICAL ROOF DRAIN DETAIL.
8. SEE DETAIL ___ FOR TYPICAL OVERFLOW SCUPPER DETAIL.
9. SEE DETAIL ___ FOR TYPICAL ROOF SADDLES.
10. SEE DETAIL ___ FOR ROOF LADDER.

KEYNOTE LEGEND

1 A1.4A UNIT A - ROOF PLAN
Scale: 1/8" = 1'-0"

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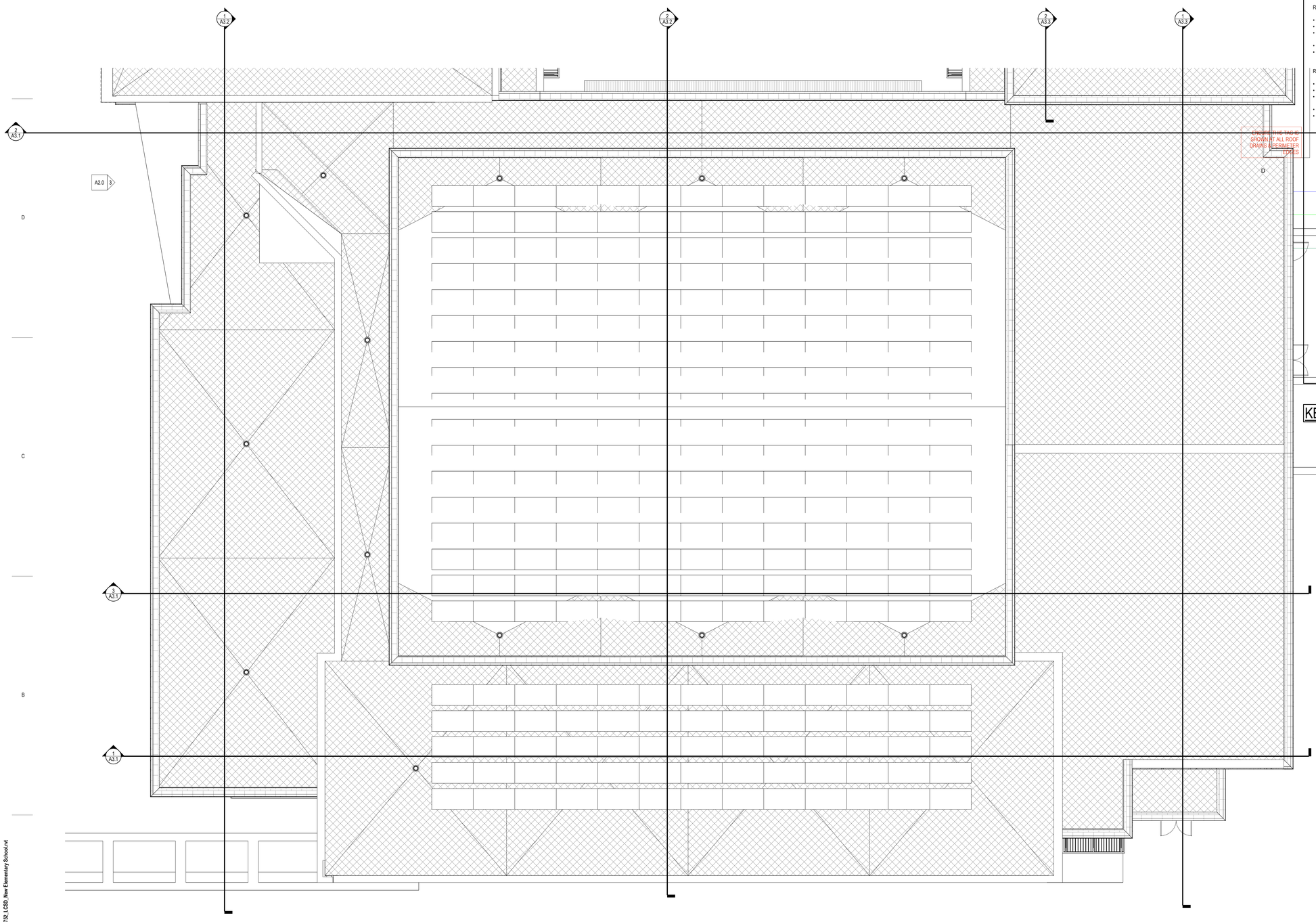

ROOF PLAN LEGEND & NOTES

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- SLOPED STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 2 (RT-2):

- EPDM SHEET
- COVERBOARD
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- THERMAL BARRIER AT SPRAY APPLIED FIRE PROOFING LOCATIONS ONLY - SEE STRUCTURAL
- FLAT STRUCTURE WITH METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 3 (RT-3):

- EPDM SHEET
- COVERBOARD
- 5" INSULATION DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS; TAPERED INSULATION AS SHOWN ON PLAN A2.0
- THERMAL BARRIER
- SLOPED STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

ROOF TYPE 4 (RT-4):

- EPDM SHEET
- COVERBOARD
- TAPERED INSULATION, 1/4" PER FOOT MINIMUM SLOPE, 5" DEPTH (MINIMUM) WITH A MINIMUM OF 2 LAYERS; STAGGER JOINTS
- THERMAL BARRIER
- FLAT STRUCTURE WITH ACOUSTICAL METAL ROOF DECK, SEE STRUCTURAL FOR SIZE & TYPE

CHOOSE THIS TAG IS SHOWN AT ALL ROOF DRAINS, PERIMETER EDGES

8" DENOTES APPROXIMATE THICKNESS OF TAPERED INSULATION

DENOTES WALKWAY PAVERS

DENOTES ROOF CRICKETS; MAINTAIN 1/2" PER FOOT SLOPE TO DRAINS

DENOTES TAPERED INSULATION; MAINTAIN 1/4" PER FOOT SLOPE TO DRAINS

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9. SEE DETAIL ____ FOR TYPICAL ROOF SADDLES.
10. SEE DETAIL ____ FOR ROOF LADDER.

KEYNOTE LEGEND

1 A1.4B UNIT B - ROOF PLAN
Scale: 1/8" = 1'-0"

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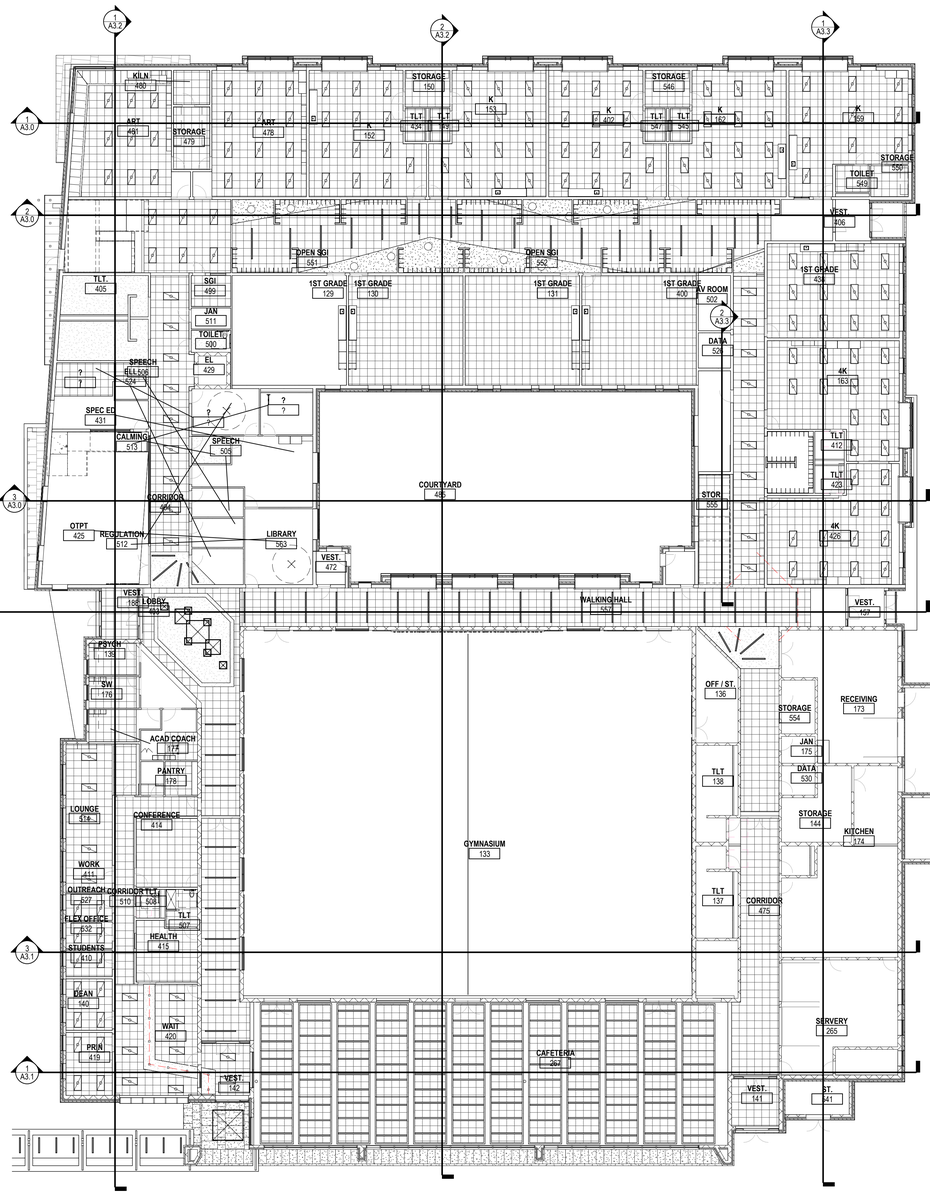
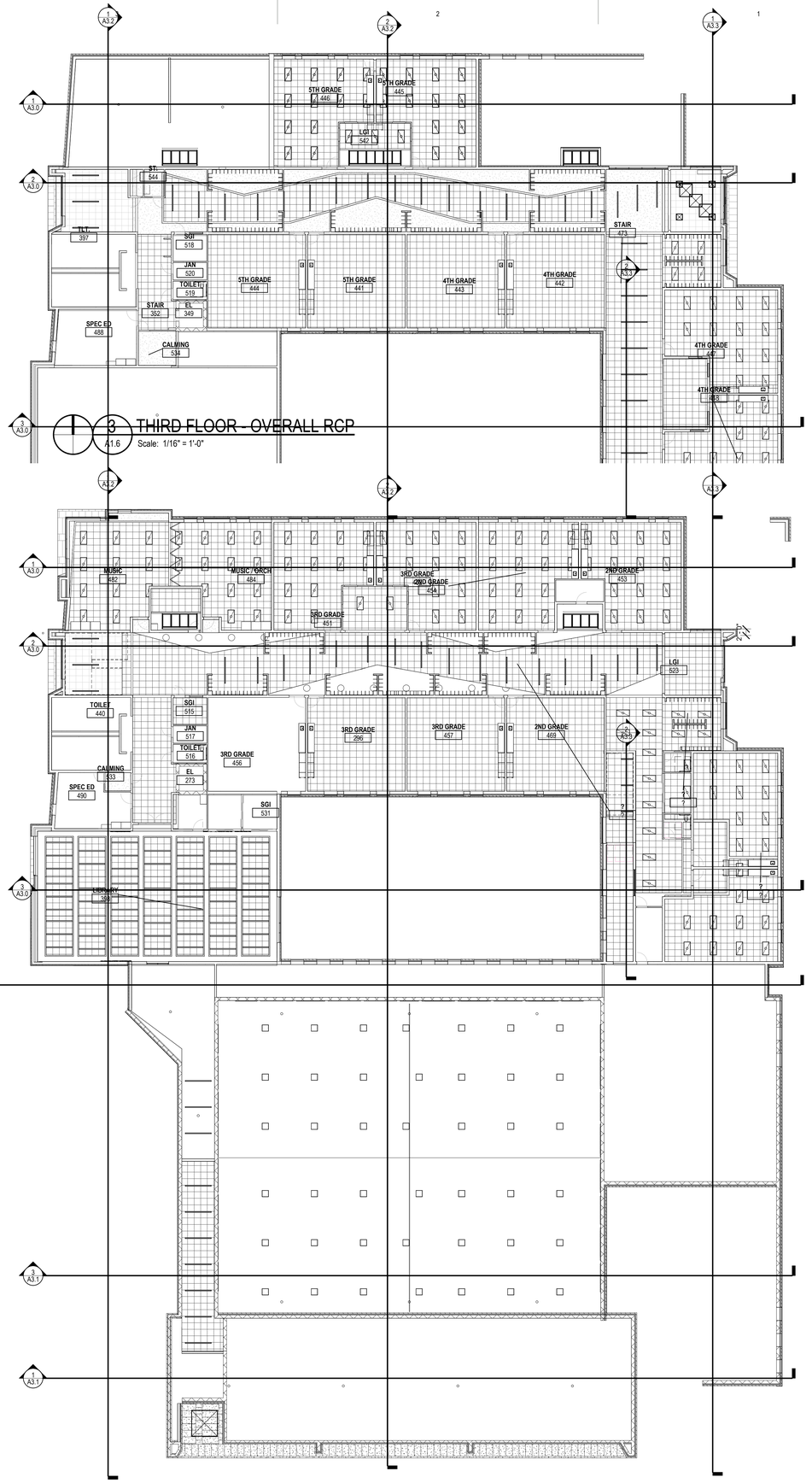


1 A1.6 FIRST FLOOR - OVERALL RCP
Scale: 1/16" = 1'-0"



3 A1.6 THIRD FLOOR - OVERALL RCP
Scale: 1/16" = 1'-0"

2 A1.6 SECOND FLOOR - OVERALL RCP
Scale: 1/16" = 1'-0"

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GENERAL CEILING PLAN NOTES

DELETE IF ALL-NEW BUILDING

EXISTING CEILING TILE & GRID

EXISTING GYP. BOARD CEILING

NEW CEILING TILE & GRID

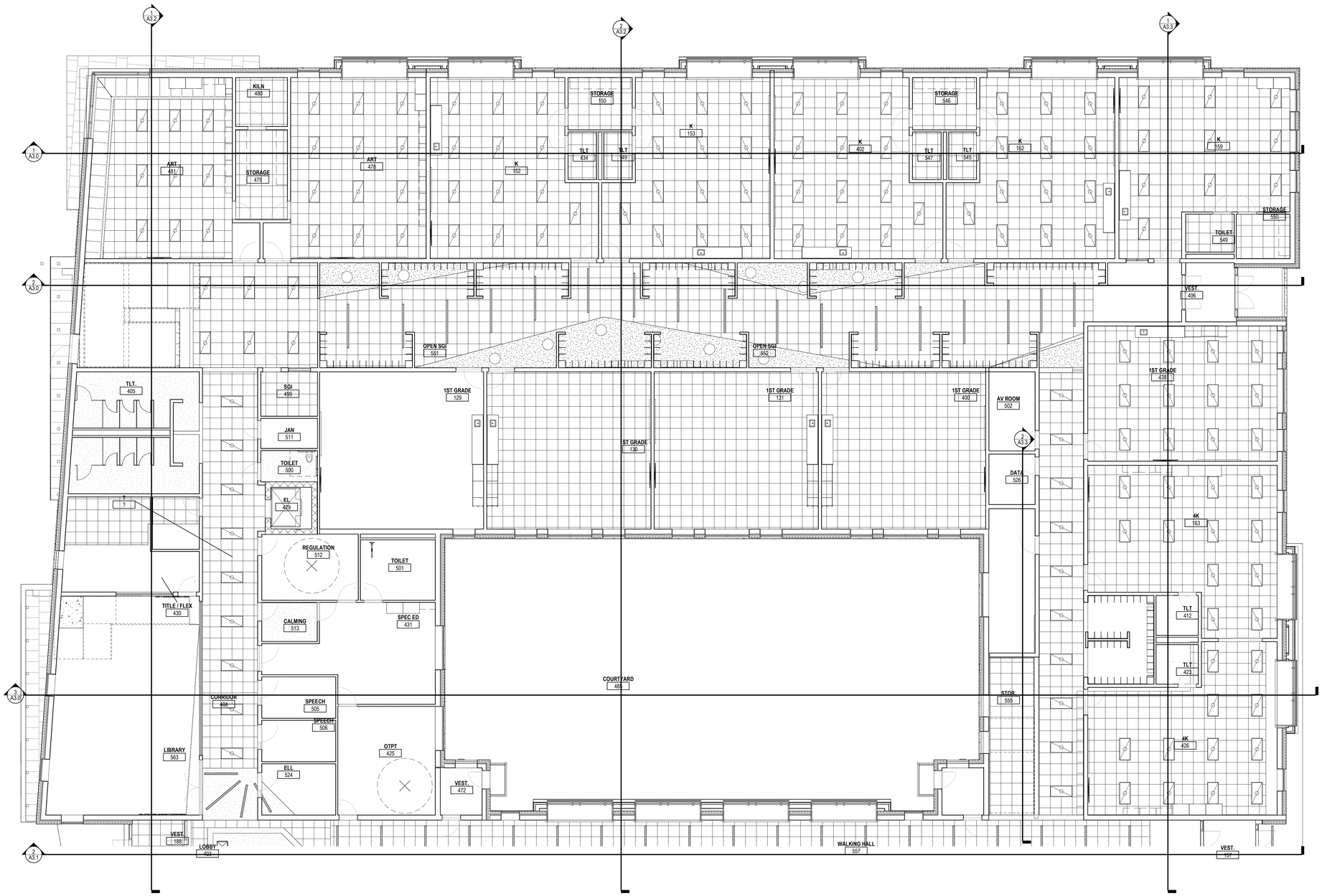
NEW GYP. BOARD CEILING

1. REFER TO INTERIOR FINISH LEGEND FOR CEILING MATERIAL KEYS.
2. ALL GYPSUM BOARD CEILINGS AND SOFFITS TO BE PAINTED PT-# UNLESS NOTED OTHERWISE. WHERE A PAINT COLOR IS INDICATED, PAINT THE BOTTOM AND FACE OF THE SOFFIT THE COLOR INDICATED.
3. COORDINATE WITH MECHANICAL, PLUMBING, FIRE PROTECTION AND ELECTRICAL THE EXACT LOCATIONS OF CEILING FIXTURES, DIFFUSERS, SPRINKLER HEADS, ETC. CONSULT WITH ARCHITECT REGARDING ANY DISCREPANCIES.

DELETE IF ALL-NEW BUILDING

4. REMOVE EXISTING CEILING PRIOR TO INSTALLING ANY NEW CEILING IF NOT NOTED ON THE DEMOLITION PLANS. ENSURE ALL CEILINGS FOR DEMOLITION ARE SHOWN ON DEMO RCP.
5. RECESSED LIGHT FIXTURES, SPEAKERS, EXIT LIGHTS, SMOKE DETECTORS, ETC. TO BE LOCATED IN THE CENTER OF CEILING TILES.
6. SEE ELECTRICAL AND MECHANICAL DRAWINGS FOR CEILING MOUNTED DEVICE SYMBOL LEGEND.
7. ALL CEILING TILE TO BE CENTERED IN BOTH DIRECTIONS IN EACH ROOM OR SPACE, UNLESS NOTED OTHERWISE. TYPICAL CEILING TILE SHOULD NOT BE CUT LESS THAN 6" WIDE IN ANY AREA. WHEN GRID LAYOUT RESULTS IN A CEILING TILE OF LESS THAN 4" FOR THE LENGTH OR WIDTH OF A ROOM, OMIT RUNNER NEAREST WALL AND CUT FULL TILE TO WIDTH AS NEEDED. ENSURE ALL CEILINGS ARE CENTERED IN ROOM. AVOID "SLIVERS" AND FULL TILES AT THE PERIMETER.

KEYNOTE LEGEND



1 A1.6A — UNIT A - FIRST FLOOR RCP

Scale: 1/8" = 1'-0"

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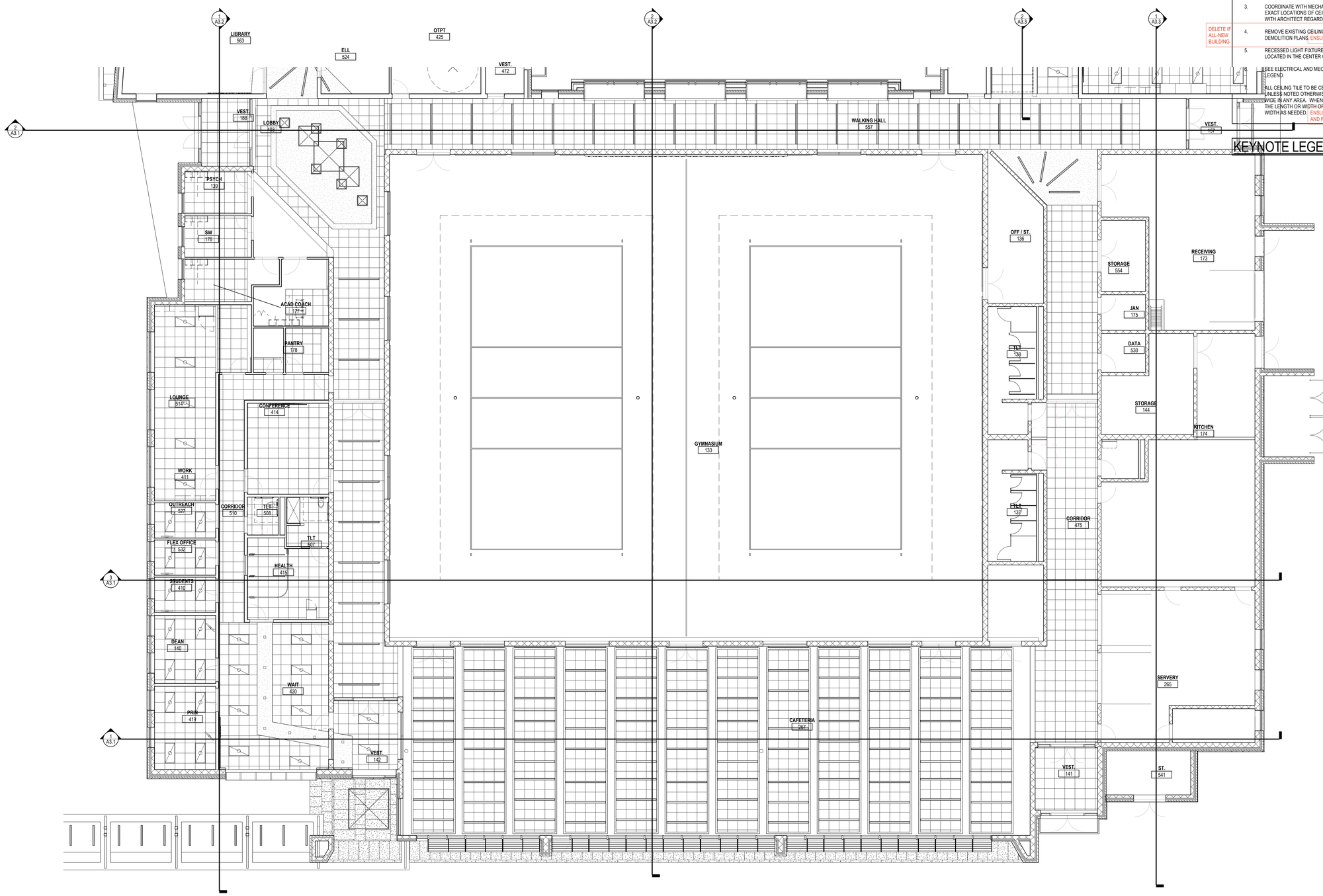

GENERAL CEILING PLAN NOTES

DELETE IF ALL-NEW BUILDING

EXISTING CEILING TILE & GRID

EXISTING GYP. BOARD CEILING

NEW CEILING TILE & GRID

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DELETE IF ALL-NEW BUILDING

4. REMOVE EXISTING CEILING PRIOR TO INSTALLING ANY NEW CEILING IF NOT NOTED ON THE DEMOLITION PLANS. ENSURE ALL CEILINGS FOR DEMOLITION ARE SHOWN ON DEMO RCP.
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KEYNOTE LEGEND

1 A1.6B UNIT B - FIRST FLOOR RCP
Scale: 1/8" = 1'-0"

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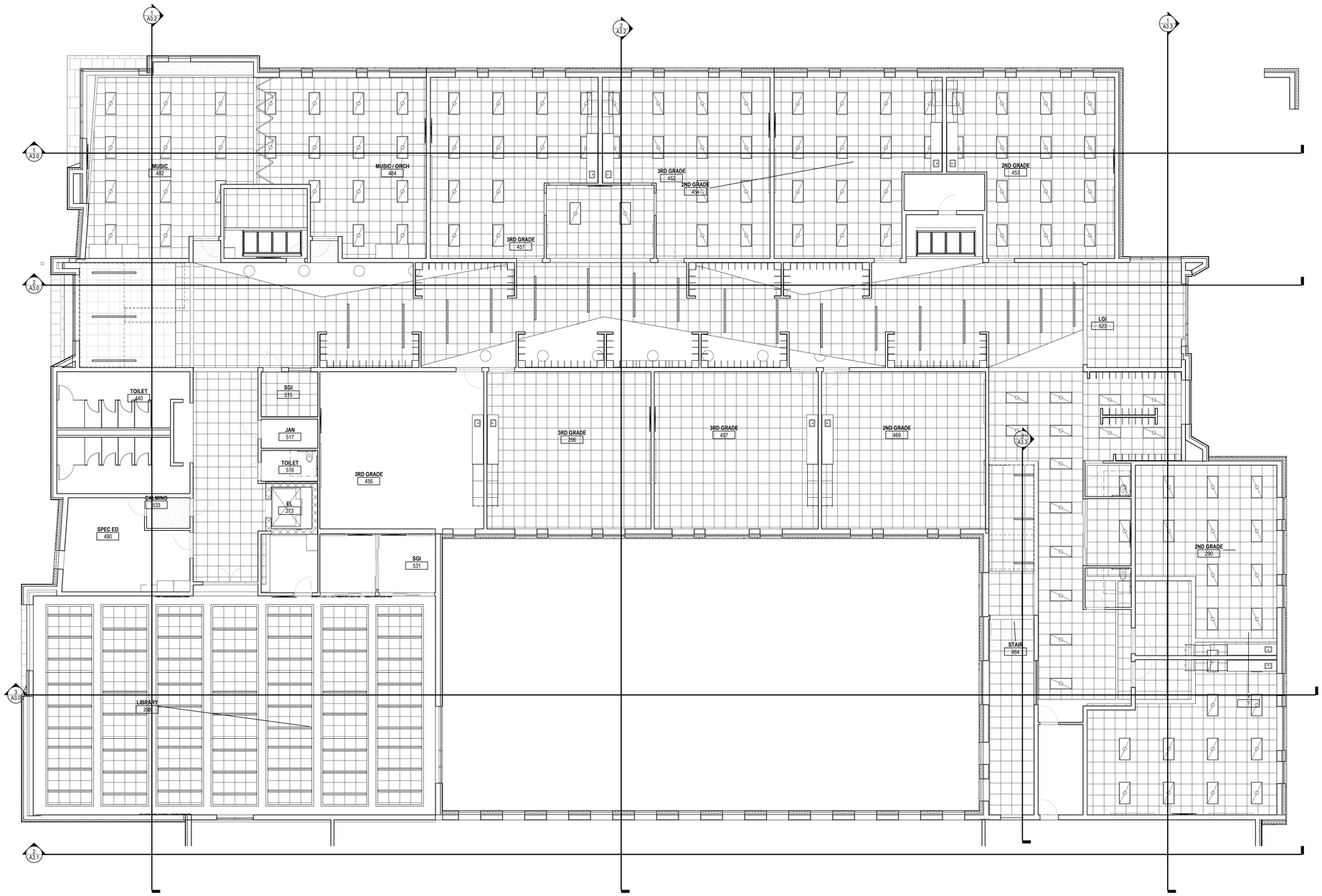

GENERAL CEILING PLAN NOTES

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5. RECESSED LIGHT FIXTURES, SPEAKERS, EXIT LIGHTS, SMOKE DETECTORS, ETC. TO BE LOCATED IN THE CENTER OF CEILING TILES.
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KEYNOTE LEGEND

1 A1.7A UNIT A - SECOND FLOOR RCP

Scale: 1/8" = 1'-0"

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UNIT A - SECOND FLOOR RCP

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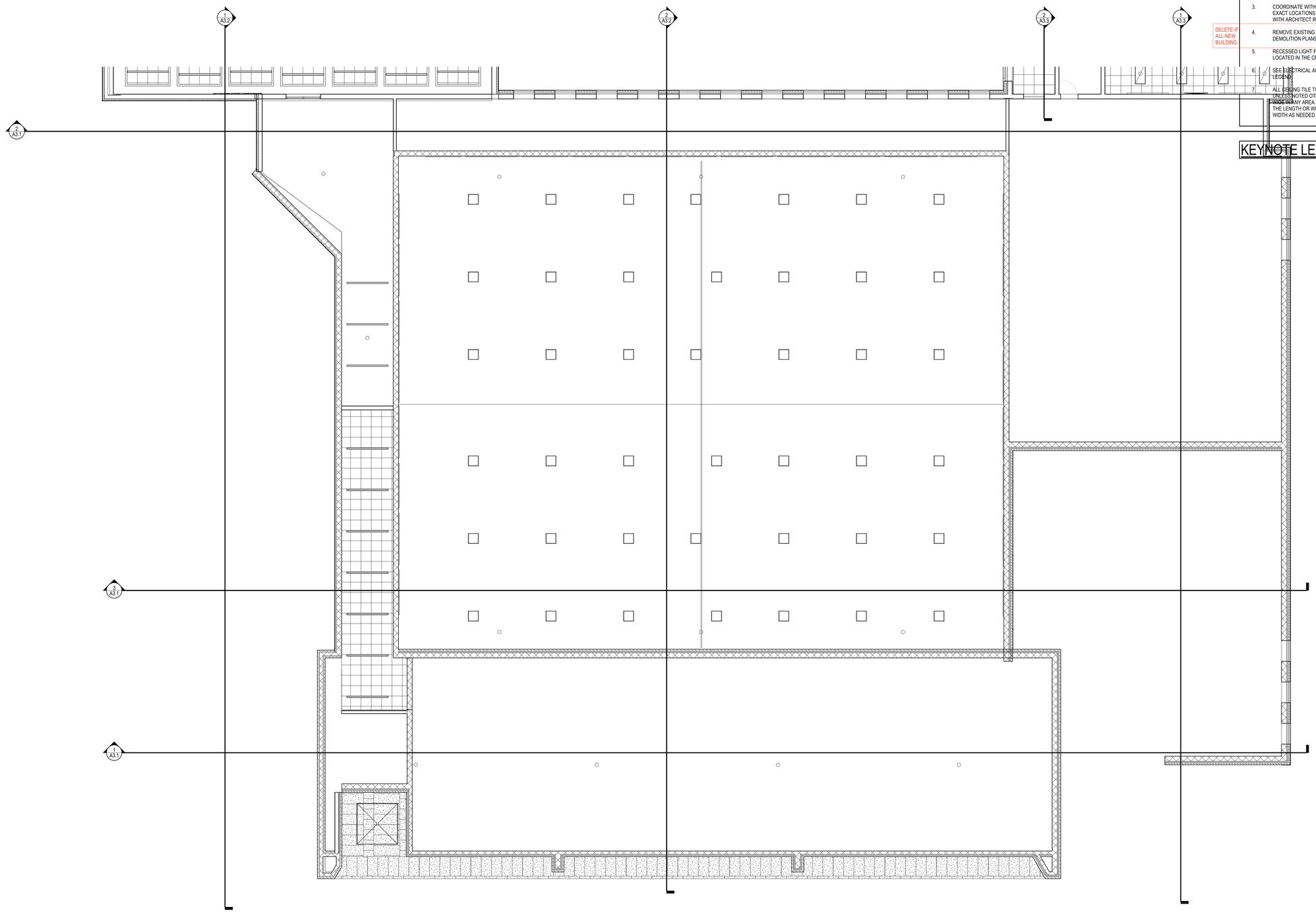

GENERAL CEILING PLAN NOTES

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1 UNIT B - SECOND FLOOR RCP
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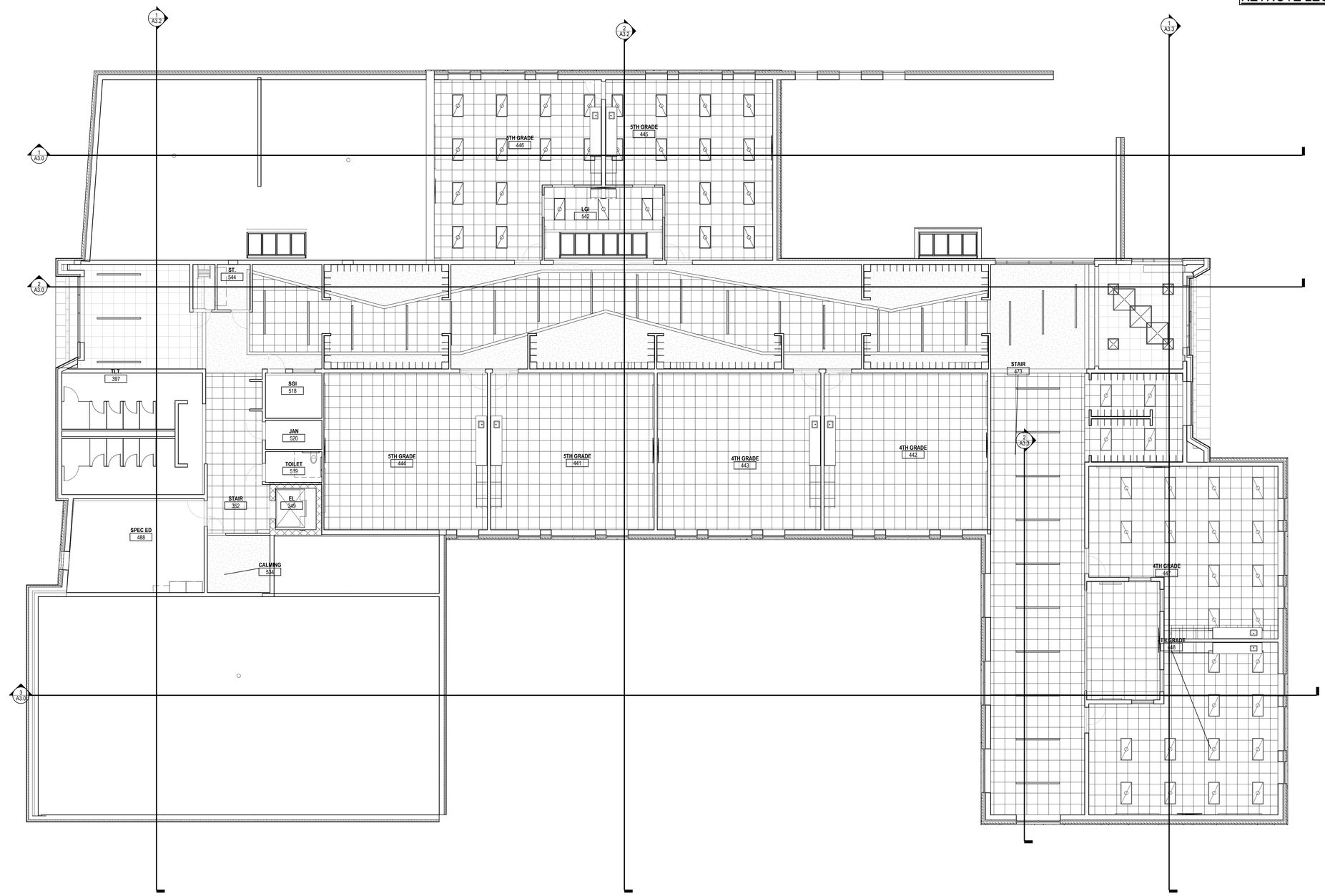

1 A1.8A UNIT A - THIRD FLOOR RCP

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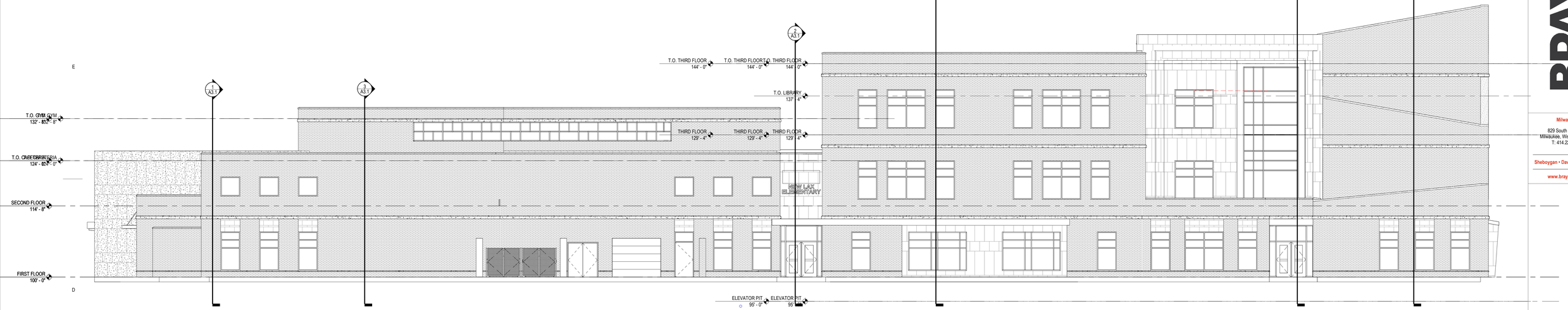
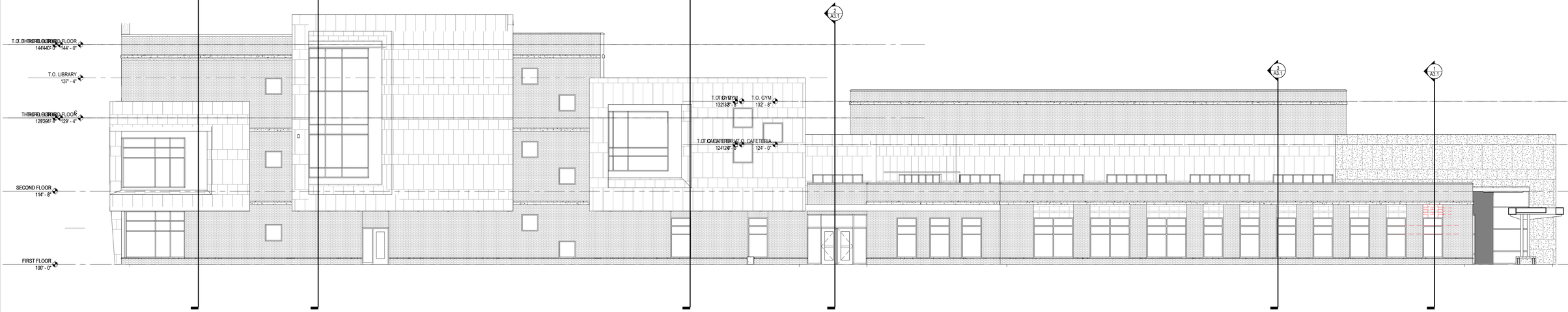


1 A2.0 **BUILDING ELEVATION - EAST**
Scale: 1/8" = 1'-0"



2 A2.0 **BUILDING ELEVATION - NORTH**
Scale: 1/8" = 1'-0"

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New Elementary School
La Crosse School District
807 East Ave S
La Crosse, WI 54601

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OVERALL EXTERIOR ELEVATIONS

Sheet Number:
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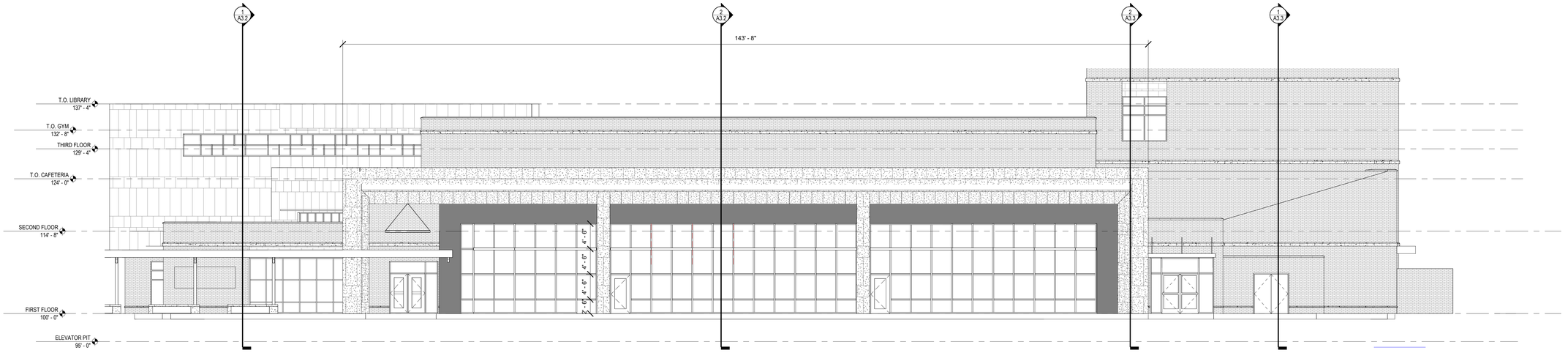
KEYNOTE LEGEND



1 A2.1 BUILDING ELEVATION - SOUTH
Scale: 1/8" = 1'-0"

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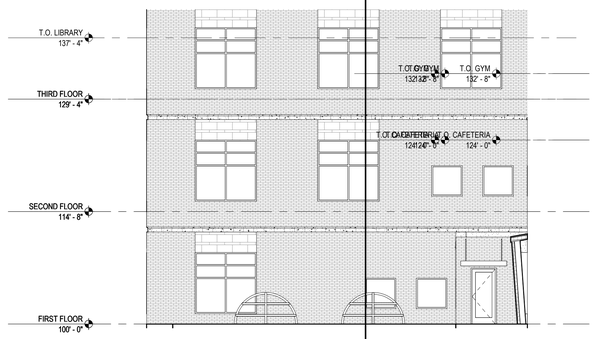
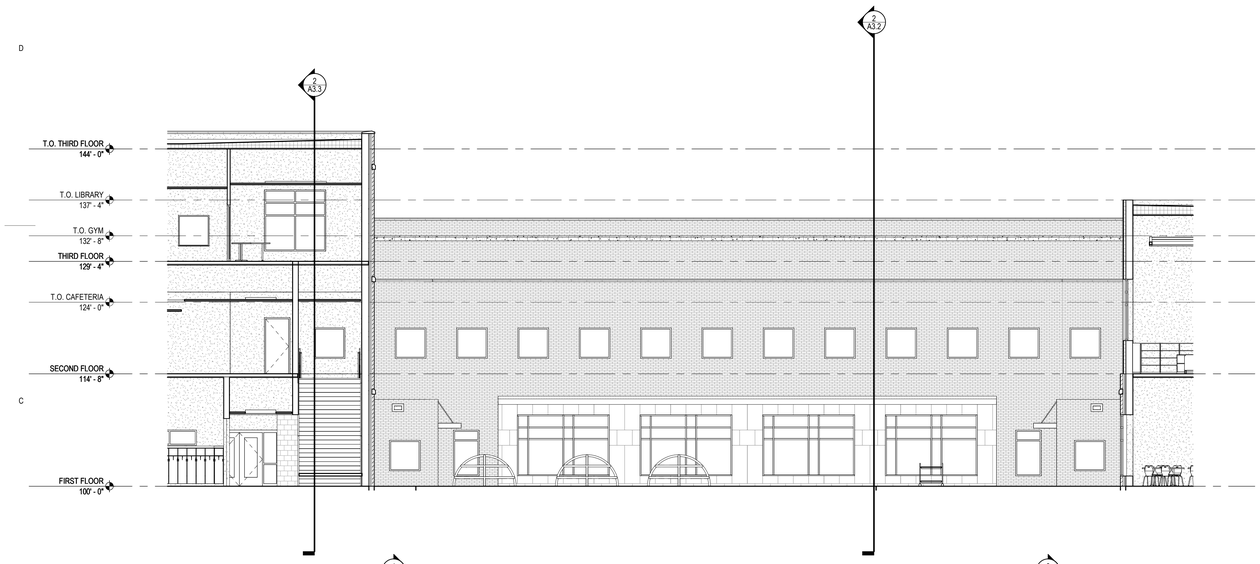
1 A2.2 BUILDING ELEVATION - COURTYARD EAST

Scale: 1/8" = 1'-0"



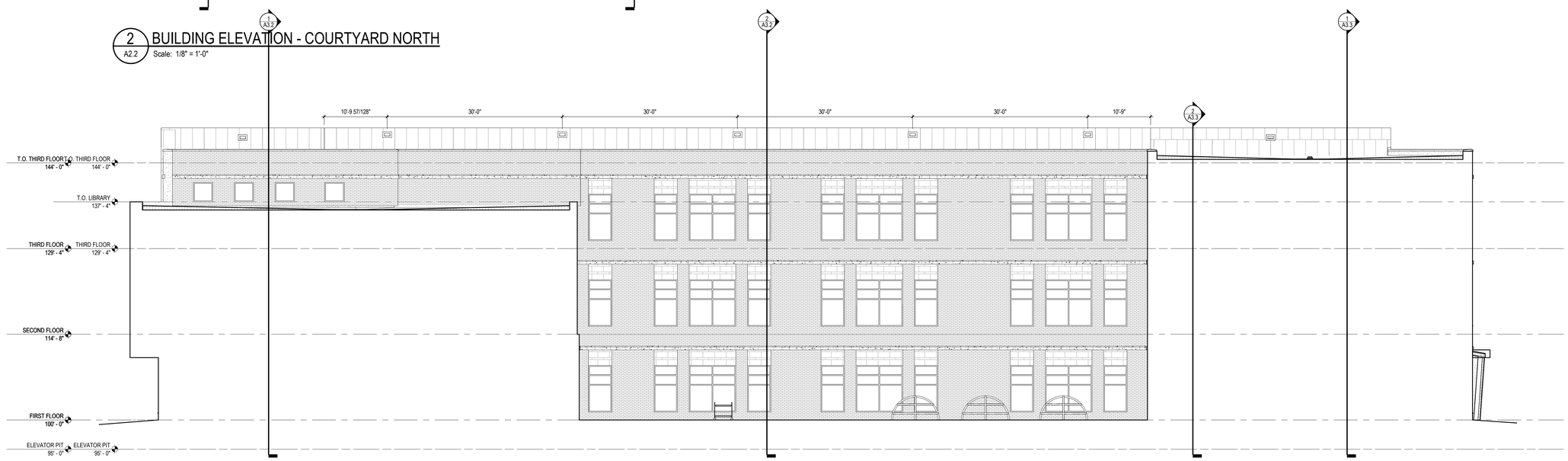
4 A2.2 BUILDING ELEVATION - COURTYARD WEST

Scale: 1/8" = 1'-0"



2 A2.2 BUILDING ELEVATION - COURTYARD NORTH

Scale: 1/8" = 1'-0"



3 A2.2 BUILDING ELEVATION - COURTYARD SOUTH

Scale: 1/8" = 1'-0"

KEYNOTE LEGEND

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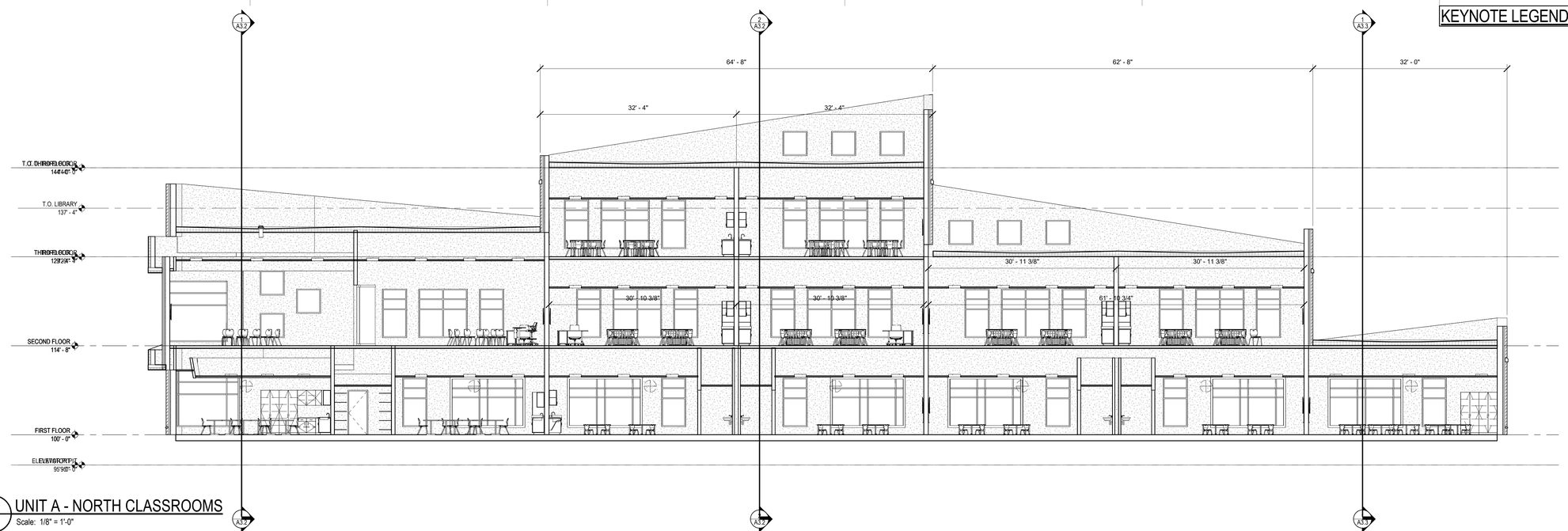
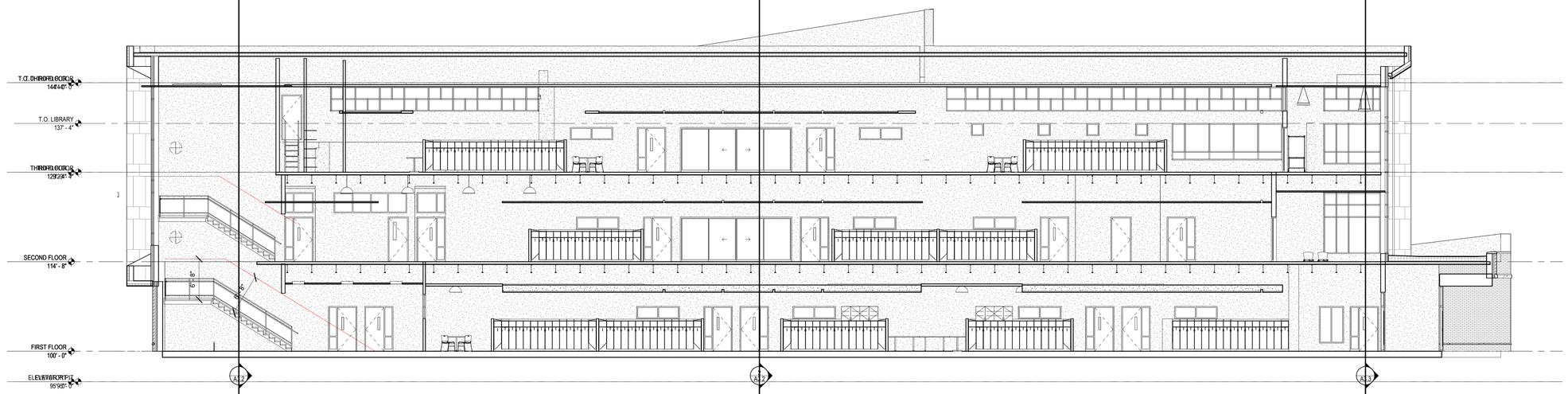
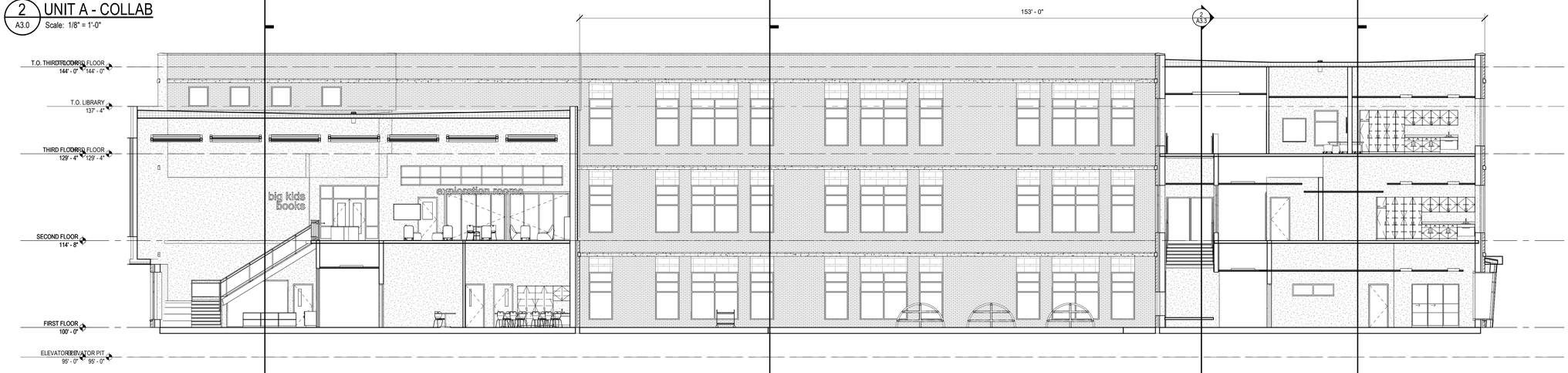


1 A3.0 **UNIT A - NORTH CLASSROOMS**
Scale: 1/8" = 1'-0"



2 A3.0 **UNIT A - COLLAB**
Scale: 1/8" = 1'-0"



3 A3.0 **UNIT A - COURTYARD**
Scale: 1/8" = 1'-0"

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BUILDING SECTIONS

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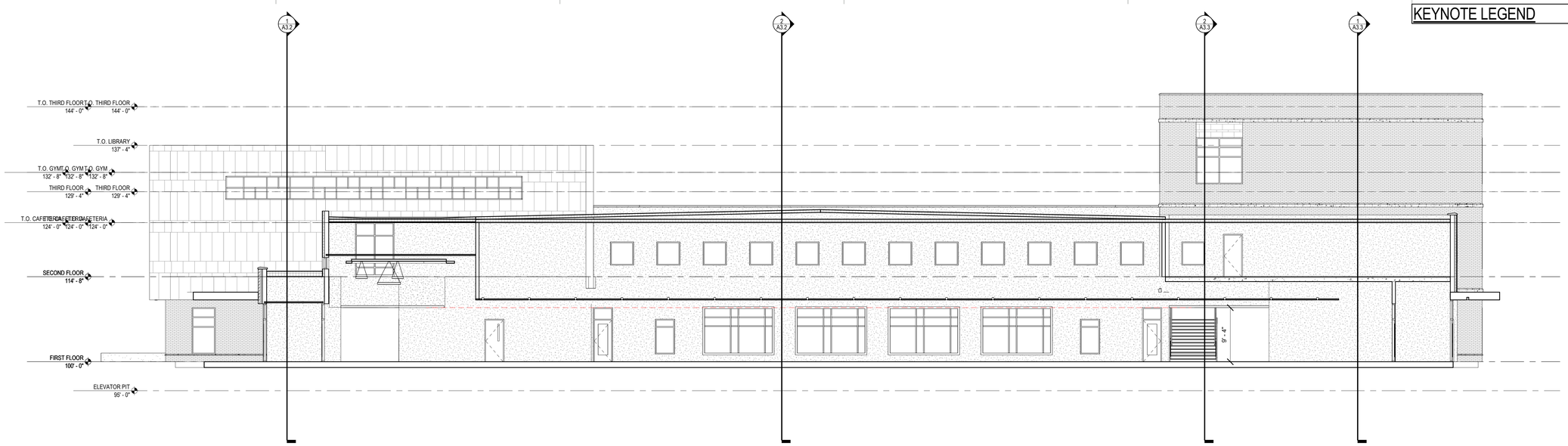
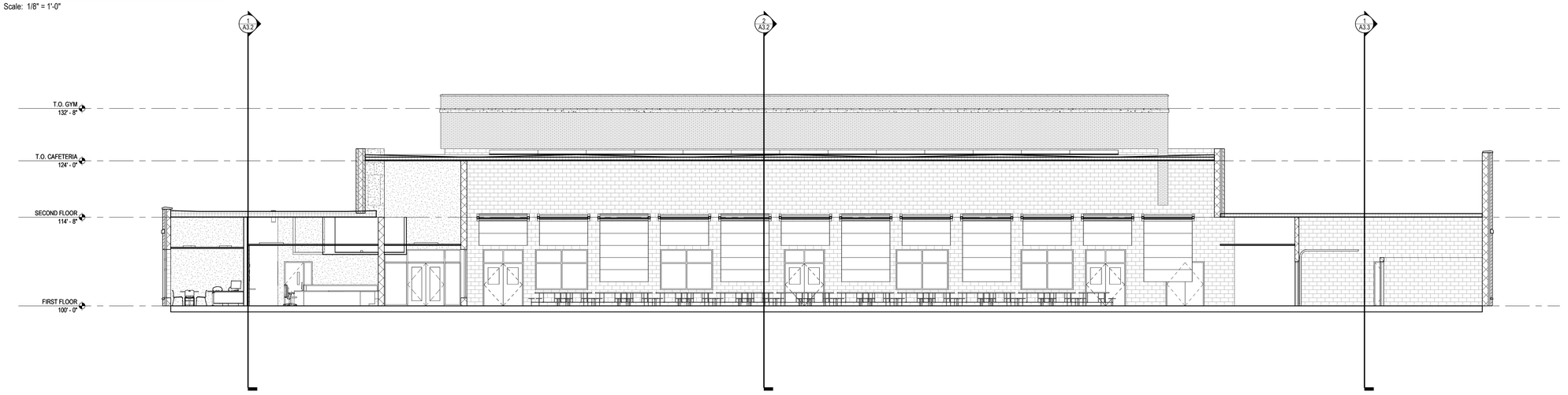
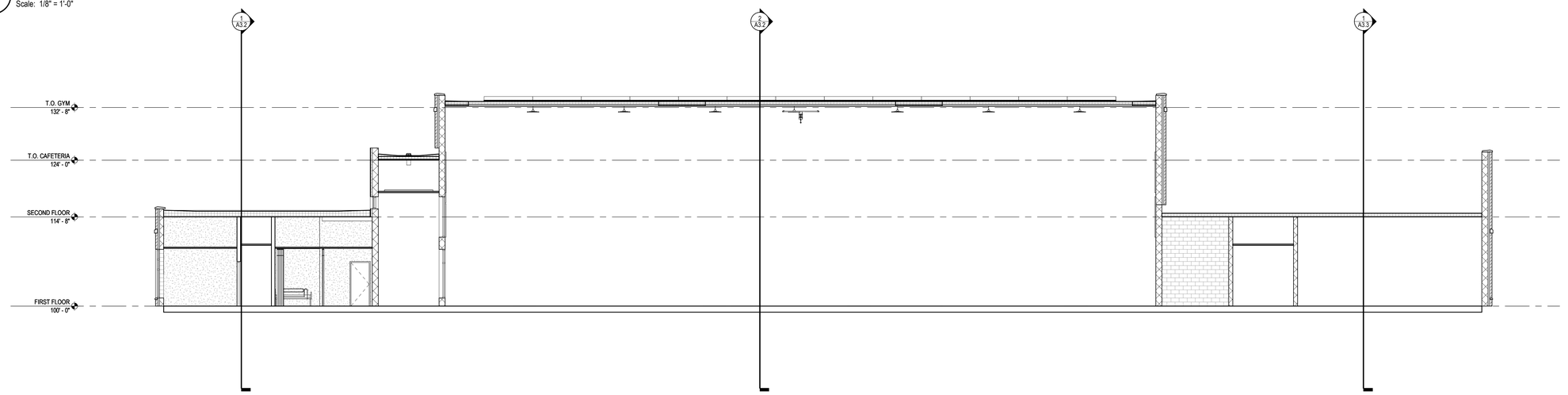


2 UNIT B - COURTYARD CORRIDOR
A3.1 Scale: 1/8" = 1'-0"



1 UNIT B - CAFETERIA
A3.1 Scale: 1/8" = 1'-0"



3 UNIT B - GYMNASIUM
A3.1 Scale: 1/8" = 1'-0"

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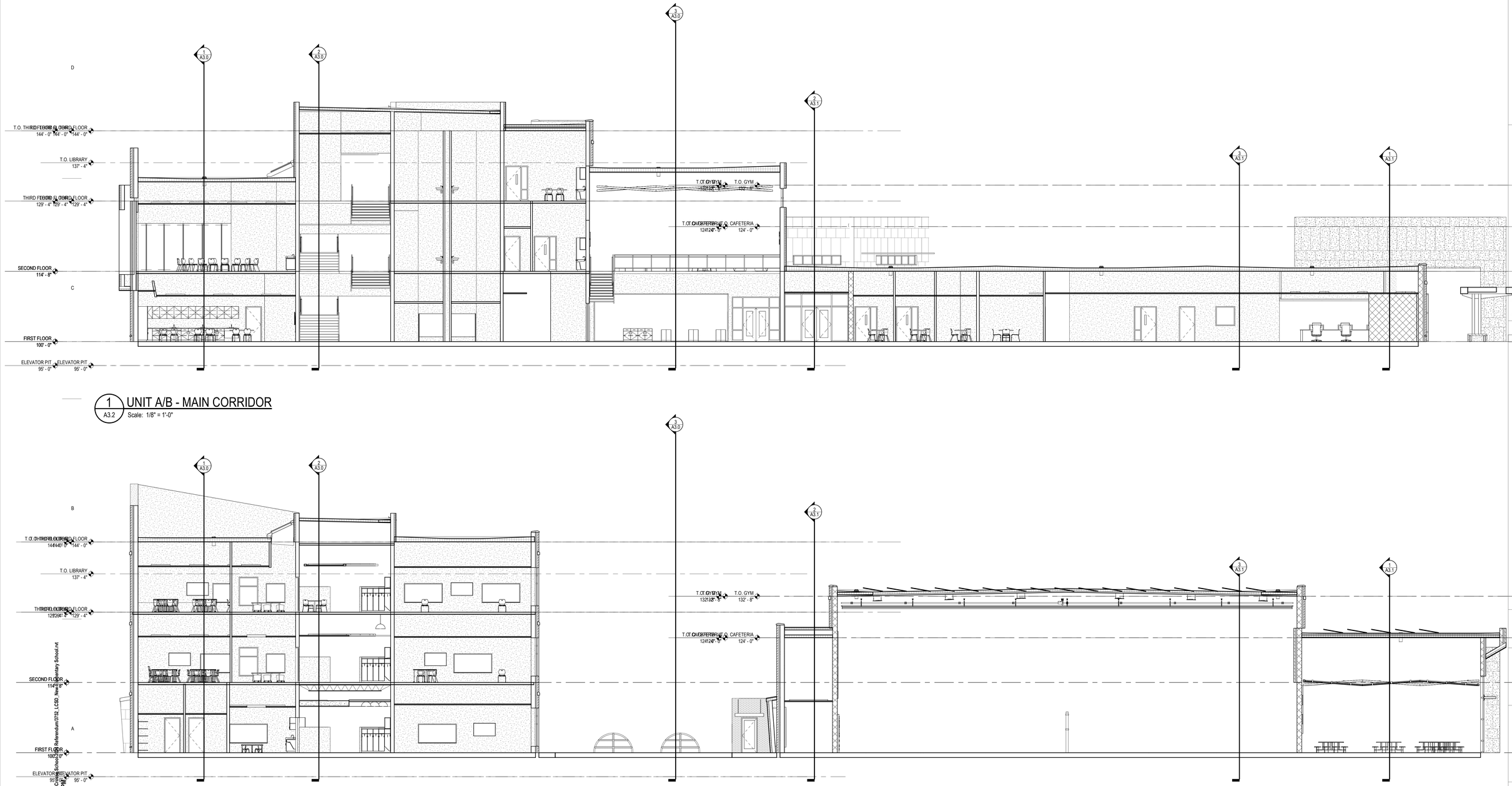

1 A3.2 **UNIT A/B - MAIN CORRIDOR**
Scale: 1/8" = 1'-0"

2 A3.2 **UNIT A/B - COURTYARD**
Scale: 1/8" = 1'-0"

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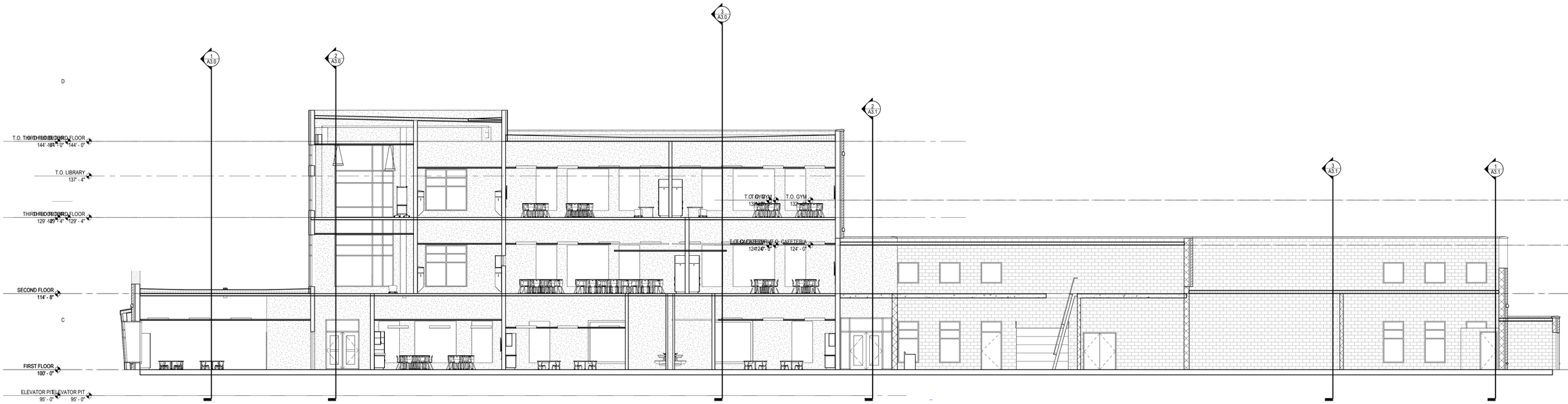
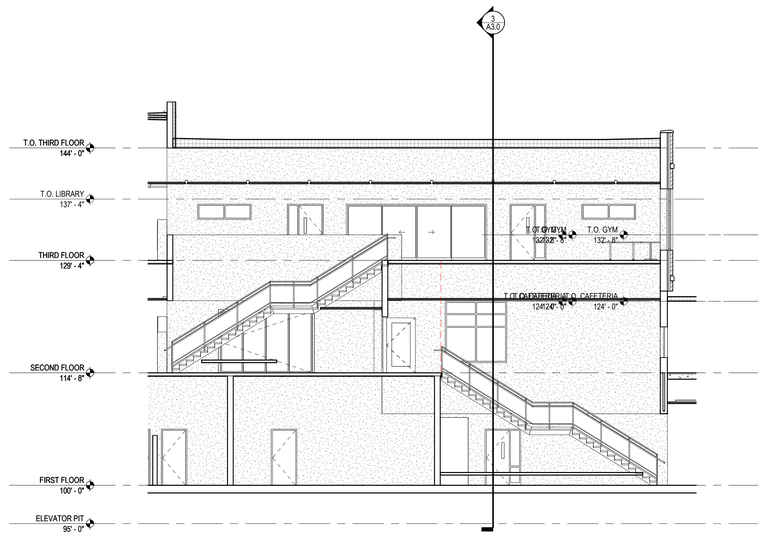


1 A3.3 **UNIT A/B - EAST CLASSROOMS**
Scale: 1/8" = 1'-0"



2 A3.3 **UNIT A/B - STAIR**
Scale: 1/8" = 1'-0"

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BUILDING SECTIONS

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New Building for

New Elementary School

La Crosse School District
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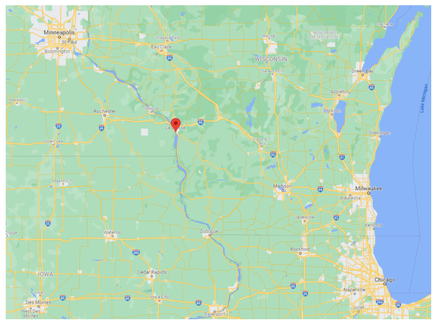
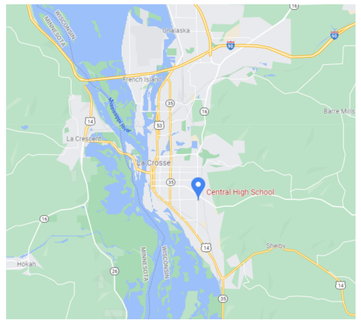
SCHOOL DISTRICT OF LA CROSSE

REGIONAL MAP



LOCAL MAP



<u>Civil</u>
Point of Beginning, Inc.
4941 Kirschling Court
Stevens Point, Wisconsin 54481
(715) 344-9999

<u>Landscape</u>
Point of Beginning, Inc.
4941 Kirschling Court
Stevens Point, Wisconsin 54481
(715) 344-9999

<u>Structural</u>
Ambrose Engineering Inc.
W66 N215 Commerce Court, Suite 100
Cedarburg, Wisconsin 53012
(262) 377-7602

<u>Mechanical</u>
MSA Professional Services, Inc.
12308 Corporate Parkway, Suite 400
Mequon, Wisconsin 53092
(262) 243-9090

<u>Plumbing</u>
MSA Professional Services, Inc.
220 East Buffalo Street, Suite 201
Milwaukee, WI 53202
(414) 296-4333

<u>Electrical</u>
MSA Professional Services, Inc.
116 Fremont Street, PO Box 235
Kiel, Wisconsin 53042
(920) 894-7800

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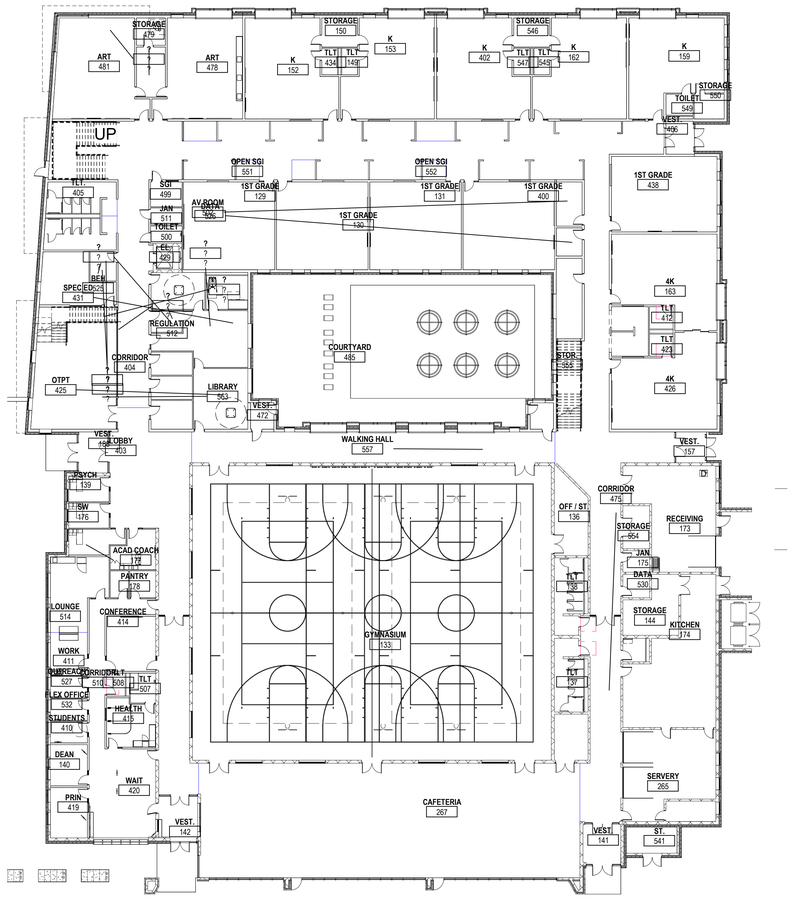
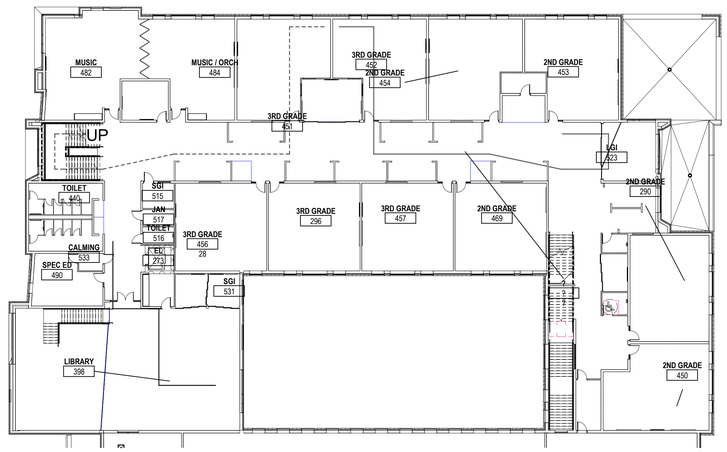
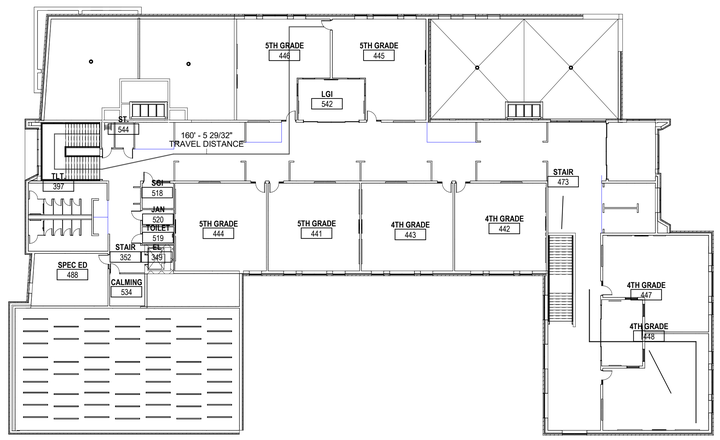


2 G0.1 FIRST FLOOR - CODE PLAN
Scale: 1" = 20'-0"



3 G0.1 SECOND FLOOR - CODE PLAN
Scale: 1" = 20'-0"

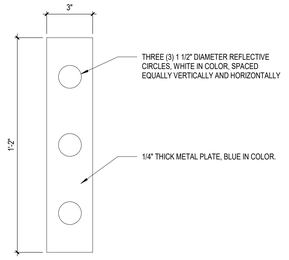


4 G0.1 THIRD FLOOR - CODE PLAN
Scale: 1" = 20'-0"

FIRE RESISTIVE & CODE REVIEW LEGEND

NOTE: THIS SHEET TO BE PRINTED IN COLOR

	WORK IN EXISTING BUILDING	X X X	SMOKE TIGHT PARTITION TO DECK	SE1 SE1 SE1	SHAFT ENCLOSURE 1 HOUR
	BUILDING ADDITION	CX CX CX	SMOKE TIGHT PARTITION TO INTERSTITIAL CEILING	SE2 SE2 SE2	SHAFT ENCLOSURE 2 HOUR
		PX PX PX	SMOKE TIGHT PARTITION TO PLENUM CEILING	SE3 SE3 SE3	SHAFT ENCLOSURE 3 HOUR
ROOM NAME 101 45	ROOM NAME ROOM NUMBER ROOM OCCUPANT LOAD			SE4 SE4 SE4	SHAFT ENCLOSURE 4 HOUR
FE	FIRE EXTINGUISHER	SB1 SB1 SB1	SMOKE BARRIER 1 HOUR	FB1 FB1 FB1	FIRE BARRIER 1 HOUR
27" R 32" P	EGRESS DIRECTION EGRESS WIDTH REQUIRED EGRESS WIDTH PROVIDE	SB2 SB2 SB2	SMOKE BARRIER 2 HOUR	FB2 FB2 FB2	FIRE BARRIER 2 HOUR
		SB3 SB3 SB3	SMOKE BARRIER 3 HOUR	FB3 FB3 FB3	FIRE BARRIER 3 HOUR
A 36" DOOR WILL PROVIDE 32-3/4" (+/-) OF EGRESS WIDTH		SB4 SB4 SB4	SMOKE BARRIER 4 HOUR	FB4 FB4 FB4	FIRE BARRIER 4 HOUR
		FP0.5 FP0.5 FP0.5	FIRE PARTITION 0.5 HOUR	FW1 FW1 FW1	FIRE WALL 1 HOUR
		FP1 FP1 FP1	FIRE PARTITION 1 HOUR	FW2 FW2 FW2	FIRE WALL 2 HOUR
				FW3 FW3 FW3	FIRE WALL 3 HOUR
		2HR 2HR 2HR	RATED CONSTRUCTION 2 HOUR	FW4 FW4 FW4	FIRE WALL 4 HOUR



1 G0.1 EXTERIOR FIRE WALL SIGN
Scale: 3" = 1'-0"

PROJECT DATA

SITE ADDRESS:	STREET ADDRESS CITY, WI 55555
COUNTY:	COUNTY NAME
APPLICABLE CODES:	2015 INTERNATIONAL BUILDING CODE WISCONSIN COMMERCIAL BUILDING CODE (SPS 361-366)

BUILDING #A (EXISTING)
PORTION OF EXISTING BUILDING ADJACENT TO NEW CONSTRUCTION BUILT IN 1999
PRIMARY OCCUPANCY = E
CONSTRUCTION TYPE = IIB
NUMBER OF STORIES = ONE STORY + PENTHOUSE & MEZZANINE
NON-SPRINKLERED BUILDING

BUILDING AREA:
EXISTING 1ST FLOOR BUILDING AREA = ~128,300 SF
RENOVATED AREA = ~450 SF
<50% WORK AREA = LEVEL 2 ALTERATION
NO CHANGE IN OCCUPANCY
EXISTING EGRESS WIDTH MAINTAINED AT NEW DOOR OPENINGS
RENOVATION IS UNDER EXISTING CANOPY (NO INCREASE IN BUILDING AREA)

BUILDING #B (ADDITION)
BUILDING RENOVATION & ADDITION
PRIMARY OCCUPANCY = E
NON-SEPARATED OCCUPANCY = A-2 (CAFETERIA) PER IBC 303.1.3
CONSTRUCTION TYPE = IIB
NUMBER OF STORIES = ONE STORY
FULLY SPRINKLERED BUILDING

FIRE SEPARATION:
2-HR FIRE WALL (HORIZONTAL EXIT) BETWEEN BUILDING A & BUILDING B PER TABLE 706.4

BUILDING AREA:
MAXIMUM BUILDING HEIGHT PER TABLE 504.3 = 75' W/ SPRINKLER SYSTEM
MAXIMUM NUMBER OF STORIES PER TABLE 504.4 = 3 STORIES W/ SPRINKLER SYSTEM
ALLOWABLE AREA PER TABLE 506.2 = 43,500 SF MULTISTORY & SPRINKLERED
FRONTAGE INCREASE:
TOTAL PERIMETER = 1,590 LF
BUILDING PERIMETER ON PUBLIC WAY (30' OPEN SPACE) = 1,339 LF
CALCULATED FRONTAGE AREA INCREASE (84.2%-25%) = 8,586 SF
TOTAL ALLOWABLE BUILDING AREA = 66,586 SF
ACTUAL BUILDING AREA = 48,242 SF

OCCUPANT LOAD:
PER TYPE:
E OOC = 780 OCCUPANTS
A-2 OOC = 392 OCCUPANTS
TOTAL OCCUPANCY = 1,172 OCCUPANTS

EGRESS INFO:
1005.1 - MEANS OF EGRESS SIZING
EGRESS DOOR WIDTH REQUIRED (IBC 1005.3.2 EX #1) = 1,149 X .15 = 172.4"
EGRESS DOOR WIDTH PROVIDED = 495"
1006.3.1 - MIN. OF (4) EXITS >1000 OCC.
1014.3 - COMMON PATH OF TRAVEL = 75' MAX
1017.2 - EXIT ACCESS TRAVEL DISTANCE = 250' MAX W/ SPRINKLER
1020.1 - CORRIDOR RATING = 0 HR WITH SPRINKLER
1020.2 - CORRIDOR WIDTH = 72" MIN SERVING >100 OCC.
1020.4 EX#2 - DEAD END CORRIDOR = 50' MAX WITH SPRINKLER

MODIFY AS NECESSARY

SANITARY FIXTURE CALCULATIONS

SCENARIO #1: RESTROOMS FOR TYPICAL SCHOOL DAY BASED ON MAXIMUM EXPECTED STUDENT ENROLLMENT & CURRENT STAFF COUNTS* ('E' OCCUPANCY USE)
TOTAL 'E' OCCUPANTS: 578 (289 MEN & 289 WOMEN)

	WATER CLOSETS		LAVATORIES		UNISEX RESTROOMS	DRINK FOUNTAINS
FORMULA	M (1:50)	W (1:50)	M (1:50)	W (1:50)		1:100
REQUIRED	5.8	5.8	5.8	5.8	0	5.8

SCENARIO #2: RESTROOMS FOR A GYMNASIUM AND STAGE EVENT ('A-3' OCCUPANCY USE)
TOTAL 'A-3' OCCUPANTS: 490 (245 MEN & 245 WOMEN)

	WATER CLOSETS		LAVATORIES		UNISEX RESTROOMS	DRINK FOUNTAINS
FORMULA	M (1:125)	W (1:65)	M (1:200)	W (1:200)		1:500
REQUIRED	1.96	3.77	1.23	1.23	1	.98

TOTAL FIXTURES PROVIDED

	WATER CLOSETS		LAVATORIES		UNISEX RESTROOMS**	DRINK FOUNTAINS
	MEN****	WOMEN	MEN	WOMEN		
PROVIDED	12 U / 8 WC	13	14	15	9**	31***

*SPS 362.2902 (1) (e) ALLOWS THE REQUIRED TOILET FIXTURE COUNT TO BE BASED ON ACTUAL OCCUPANT LOAD RATHER THAN THE LOAD DETERMINED BY SQUARE FOOTAGE.

EXPECTED STUDENT ENROLLMENT: ~450-500 STUDENTS
CURRENT STAFF: 78 STAFF
TOTAL OCCUPANCY ~528-578 OCCUPANTS

SCENARIO #1 (FULL SCHOOL) AND SCENARIO #2 (GYMNASIUM EVENT) ARE NOT EXPECTED TO TAKE PLACE AT THE SAME TIME. BOTH SCENARIO #1 AND SCENARIO #2 CAN BE MEET BY PROVIDED FIXTURES.

** UNISEX TOILETS CAN BE USED TOWARD MENS OR WOMENS REQUIRED FIXTURE TOTAL (MEN'S AND WOMEN'S TOTAL FIXTURES SHOWN ABOVE DO NOT INCLUDE ANY UNISEX FIXTURES).

*** (23) WALL MOUNTED DRINK FOUNTAINS AND (8) DRINK FOUNTAINS PROVIDED AT CLASSROOM SINKS

**** SPS 362.2902 - 66% OF WATER CLOSETS (WC) CAN BE URINALS (U) IN BOTH 'E' AND 'A' OCCUPANCIES

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#:	DATE	DESCRIPTION

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Project Number: 3752

Issued For: 50%DD Set 05/06/25

Sheet Title: CODE REVIEW

Sheet Number: G0.1

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FIRE PROTECTION SYMBOLS AND ABBREVIATIONS

THIS IS A COMPREHENSIVE SYMBOL AND ABBREVIATION LIST - NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.

PIPING SYSTEMS

FP-D	FIRE PROTECTION DRY
FP	FIRE PROTECTION OTHER
FP-P	FIRE PROTECTION PRE-ACTION
FP-W	FIRE PROTECTION WET

ACCESSORIES

- BACKFLOW PREVENTER - DC
- BACKFLOW PREVENTER - DCDA
- BACKFLOW PREVENTER - PVB
- BACKFLOW PREVENTER - RP
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- THREE WAY VALVE - ELECTRICAL
- THREE WAY VALVE
- PRESSURE GAUGE
- PRESSURE REGULATING VALVE
- SOLENOID VALVE
- MECHANICAL VALVE
- TEMPERATURE GAUGE
- WATER HAMMER ARRESTER
- PRESSURE GAUGE

FITTINGS

- ELBOW LONG SWEEP 90
- ELBOW SHORT SWEEP 90
- ELBOW
- TEE
- CROSS
- CAP
- COUPLING
- PLUG
- PIPE BREAKLINE
- P TRAP
- PIPE DROP / DOWN
- PIPE RISE / UP
- PIPE BRANCH RISE / UP
- PIPE BRANCH DROP / DOWN
- 2"ø SAN — PIPE TAG: SIZE & SYSTEM ABBREVIATION
- 2"ø — PIPE TAG: SIZE
- SAN — PIPE TAG: SYSTEM ABBREVIATION
- 2"ø (2) — PIPE TAG: SIZE & FIXTURE UNITS

SPRINKLER HEADS

- UPRIGHT
- PENDANT
- CONCEALED
- RECESSED
- SIDE WALL

DEVICES

- FDC - FIRE DEPARTMENT CONNECTION
- FPTC - FIRE PUMP TEST CONNECTION
- HORN
- HORN / STROBE
- STROBE
- FS — FLOW SWITCH CONNECTION
- TS — TAMPER SWITCH CONNECTION

GENERAL ANNOTATION SYMBOLS

- X — REFERS TO PLAN NOTE NUMBER
- XXX-X / XXX — FIXTURE AND EQUIPMENT TAG; SPECIALTY EQUIPMENT REFERENCE TAG
- XX / XXX — DETAIL NUMBER; SHEET NO. WHERE DETAIL IS LOCATED
- X / XXX — VIEW REFERENCE TAG
- XX / XXX — VIEW REFERENCE TAG
- PIPE BREAKLINE
- CONNECT NEW TO EXISTING
- 1 — REVISION NUMBER
- ARCH = XXX.XX' / CIVIL = XXX.XX' — ELEVATION MARKER

ABBREVIATIONS

ABV	ABOVE
ADD	ADDENDUM
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
ALT	ALTERNATE
ARCH	ARCHITECT / ARCHITECTURAL
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BJ	BETWEEN JOISTS
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BALANCE VALVE
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CM	CONSTRUCTION MANAGER / GENERAL CONTRACTOR
CLG	CEILING
DEG	DEGREE(S)
DIA	DIAMETER
DN	DOWN
DP	DIFFERENTIAL PRESSURE
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUIPMENT
ETR	EXISTING TO REMAIN
EX	EXISTING
F	DEGREES FAHRENHEIT
FBO	FURNISHED BY OTHERS
FFE	FINISHED FLOOR ELEVATION
FPC	FIRE PROTECTION / SPRINKLER CONTRACTOR
FT	FOOT / FEET
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR / CONSTRUCTION MANAGER
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
HC	HVAC CONTRACTOR
HP	HORSE POWER
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IN	INCH
INV	INVERT
LB	POUND
LF	LINEAR FOOT / FEET
MAX	MAXIMUM
MBH	ONE THOUSAND BTU PER HOUR
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MIN	MINUTE
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
Ø	DIAMETER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PRESS	PRESSURE
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
REC	RECESSED
RI	ROUGH-IN
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FOOT
TEMP	TEMPERATURE
TYP	TYPICAL
UC	UNDERCOUNTER
UG	UNDERGROUND
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT

FIRE PROTECTION SHEET INDEX

FP000	GENERAL NOTES
FP1.0	OVERALL FIRST FLOOR PLAN
FP1.2	OVERALL SECOND FLOOR PLAN
FP1.3	OVERALL THIRD FLOOR PLAN

GENERAL DEMOLITION NOTES

1. SEE SPECIFICATIONS FOR MORE INFORMATION.
2. EXISTING ITEMS SHOWN ON THESE DRAWING REFLECT A COMBINATION OF THE EXISTING CONTRACT DRAWINGS, AS-BUILT RECORD DRAWINGS, FIELD SURVEYS AND THE ENGINEER'S ESTIMATION OF PIPE ROUTES. ALL EXISTING PIPE LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. NOTIFY THE ENGINEER FOR ANY REUSED OF EXISTING PIPING THAT IS IN GOOD CONDITION AND SIZE APPROPRIATELY.
3. ITEMS SHOWN AS HEAVY DASHED ARE TO BE DEMOLISHED.
4. ITEMS SHOWN AS LIGHTER ARE EXISTING TO REMAIN.
5. COORDINATE DEMOLITION OF EXISTING PIPING TO BE REMOVED WITH GENERAL CONTRACTOR.
6. FIELD VERIFY LOCATIONS OF EXISTING PIPE MAINS. REUSE ANY PIPING OF SUFFICIENT SIZE IN GOOD CONDITION. REROUTE AS REQUIRED PER FIELD CONDITIONS.
7. WHERE EXISTING PIPING IS SHOWN TO BE REMOVED, CAP BRANCH PIPE IF NOT BEING USED FOR NEW CONSTRUCTION.

GENERAL INSTALLATION NOTES

1. SEE THE FIRE SUPPRESSION SPECIFICATION FOR MORE INFORMATION.
2. THE AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE INSTALLED PER NFPA, BUILDING CODE, FIRE CODE, AND THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE FIRE PROTECTION CONTRACTOR TO PREPARE ALL FINAL DRAWINGS, CALCULATIONS, AND SUBMITTALS TO THE AUTHORITY HAVING JURISDICTION.
3. PROVIDE AUTOMATIC FIRE SPRINKLER SYSTEM ZONES AND COVERAGE REQUIREMENTS (DENSITIES AND HAZARDS) PER NFPA.
4. THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE THE BASE REQUIREMENTS THAT ARE SHOWN IN THE DRAWINGS. FOR ITEMS NOT SHOWN ON THE DRAWINGS, PROVIDE THE MINIMUM REQUIREMENTS PER NFPA.
5. ALL PIPING SHALL BE CONCEALED WHEN INSTALLED OUTSIDE OF THE MECHANICAL ROOM AND STORAGE AREAS. IF THE BUILDING'S CONSTRUCTION DOES NOT PERMIT THE CONCEALING OF THE PIPING, LOCATIONS AND ROUTING OF THE PIPING SHALL BE APPROVED BY ARCHITECT/OWNER PRIOR TO ANY INSTALLATION.
6. ROUTE PIPING IN STRUCTURAL WEBBING OF FLOOR/CEILING JOIST IN AREAS WHERE PIPING IS EXPOSED.
7. VERIFY THE LOCATION OF ALL OTHER TRADES FIXTURES, EQUIPMENT, ELECTRICAL PANELS, PIPING, DUCT, EXHAUST HOODS WITH PLUMBING HVAC AND ELECTRICAL PLANS. ROUTE PIPING AS REQUIRED PER NFPA.
8. VERIFY LOCATION OF ALL SPACES, SUCH AS ATTICS, CLOSETS, CONCEALED SPACES, TUNNELS, MECHANICAL ROOMS, STORAGE AREAS, SKYLIGHTS, CLOUD CEILINGS, COOLERS / FREEZERS, CORROSIVES ENVIRONMENTS, CANOPIES, AND OVERHEAD DOORS WITH ARCHITECTURAL PLANS. PROVIDE SPRINKLER COVERAGE (DENSITIES AND HAZARDS) AT THESE LOCATIONS PER NFPA. IF A DRY SYSTEM IS REQUIRED, THE FIRE PROTECTION CONTRACTOR SHALL COORDINATE ANY ELECTRICAL REQUIREMENT WITH THE ARCHITECT/ENGINEER.
9. PROVIDE FIRE SPRINKLER COVERAGE FOR AN ELEVATOR HOIST-WAY AND MACHINE EQUIPMENT ROOM AS REQUIRED PER THE ELEVATOR'S SHOP DRAWING AND NFPA.
10. PROVIDE CLOSELY SPACED FIRE SPRINKLERS NEAR THE DRAFT STOPS FOR ALL VERTICAL OPENINGS PER NFPA.
11. PROVIDE STANDPIPE HOSE CONNECTIONS FOR EXIT STAIRS AND HORIZONTAL EXITS AS REQUIRED PER THE LOCAL FIRE MARSHAL AND NFPA.
12. ZONES RISER ISOLATION VALVES, TAMPER SWITCH, FLOW SWITCHES, PRESSURE GAUGE AND DRAINS VALVES SHALL BE INSTALLED IN AN ACCESSIBLE LOCATION AND CONCEALED FROM BUILDING OCCUPANT'S VIEW WHEN LOCATED OUTSIDE OF MECHANICAL ROOMS OR STORAGE AREAS.
13. PROVIDE DRAIN DOWN VALVES AT LOW POINTS OF THE FIRE SPRINKLERS SYSTEMS AND LOCATE THE INSPECTOR TEST AS AT THE MOST REMOTE END OF FIRE SPRINKLER SYSTEM ZONES PER NFPA.
14. FIRE SPRINKLER HEADS LOCATED IN CEILING WITH LAY-IN CEILING TILES SHALL BE CENTERED WITHIN THE TILE. FLEXIBLE CONNECTORS TO FIRE SPRINKLER HEADS ARE ACCEPTABLE. THE PIPING SHALL BE LOCATED A MINIMUM OF 6" ABOVE THE CEILING TILE TO ALLOW FOR REMOVAL OF THE CEILING TILE.
15. FIRE SPRINKLER HEADS LOCATED IN A PAINTED SOFFIT, WOOD SOFFIT, OR CEILING, SHALL HAVE ITS CONCEALED COVER PLATED COLOR MATCH WITH THAT OF THE ADJACENT SURFACE. THE SPRINKLER HEADS CONCEAL COVER PLATE COLOR SHALL BE FACTORY PAINTED. ALL FIRE SPRINKLER HEADS CONCEALED COVER PLATE COLORS SHALL BE APPROVED BY THE ARCHITECTURAL PRIOR TO ORDERING AND INSTALLATION.
16. PROVIDE FIRE SPRINKLER COVERAGE IN AREAS OF THE EXISTING BUILDING WHERE NEW FIRE SPRINKLER MAIN SUPPLY PIPING IS ROUTED THROUGH PER NFPA.
17. PROVIDE FIRE SPRINKLER COVERAGE INSIDE EXHAUST DUCTS THAT ARE 10 INCHES AND GREATER CONVEYING COMBUSTIBLE MATERIALS IN THE TECHNICAL EDUCATION AREA AS REQUIRED PER IBC, EIBC, AND NFPA STANDARDS. STAINLESS STEEL FLEXIBLE BRAIDED SUPPLY AND PENDANT FIRE SPRINKLER HEADS ARE ACCEPTABLE. PROVIDE DRY BARREL TYPE FIRE SPRINKLER HEADS OR DRY SYSTEM FOR EXHAUST DUCT THAT IS EXPOSED TO FREEZING TEMPERATURES.
18. PROVIDE EXTERIOR DUST COLLECTOR WITH A DRY FIRE SPRINKLER PIPE CONNECTION. PROVIDE GALVANIZED PIPE AND FITTINGS OUTSIDE OF THE BUILDING. COORDINATE FINAL LOCATION, SIZE AND FITTING TYPE WITH HVAC CONTRACTOR.
19. PROVIDE A WATER DELUGE SYSTEM FOR 2 HOUR PROSCENIUM OPENING. FIRE SPRINKLER HEADS SHALL BE OPEN-HEAD TYPE WITH ELECTRIC HEAT DETECTION SYSTEM. COORDINATE PIPE ROUTING IN AREAS WITH THEATER LIGHTS AND RIGGING EQUIPMENT PRIOR TO DESIGN AND INSTALLATION. THE WATER DELUGE SYSTEM ZONE RISER SHALL BE A DRY TYPE VALVE AND WITH AIR COMPRESSOR.
20. PROVIDE PERFORMANCE STAGES WITH ORDINARY HAZARD GROUP 2 DESIGN CRITERIA FIRE SPRINKLER COVERAGE. THE FIRE SPRINKLER HEADS SHALL BE PLACED BELOW ALL PLATFORMS AND CATWALKS. THE FIRE SPRINKLERS PIPING SHALL BE BLACK STEEL AND FIRE SPRINKLERS HEADS SHALL BE HIGH TEMPERATURE UPRIGHT OR PENDANT WITH A BRASS FINISH. COORDINATE ALL PIPE ROUTING IN AREAS WITH THEATER LIGHTS AND RIGGING EQUIPMENT PRIOR TO DESIGN AND INSTALLATION. PROVIDE CLASS II FIRE HOSE CONNECTION AND HOSE CABINET ON EACH SIDE OF THE STAGE OPENING PER NFPA.

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New Elementary School
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La Crosse, WI 54601

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	DATE	DESCRIPTION

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Project Number: **3752**

Issued For: **SD Set** **03/26/25**

Sheet Title: **GENERAL NOTES**

Sheet Number: **FP000**

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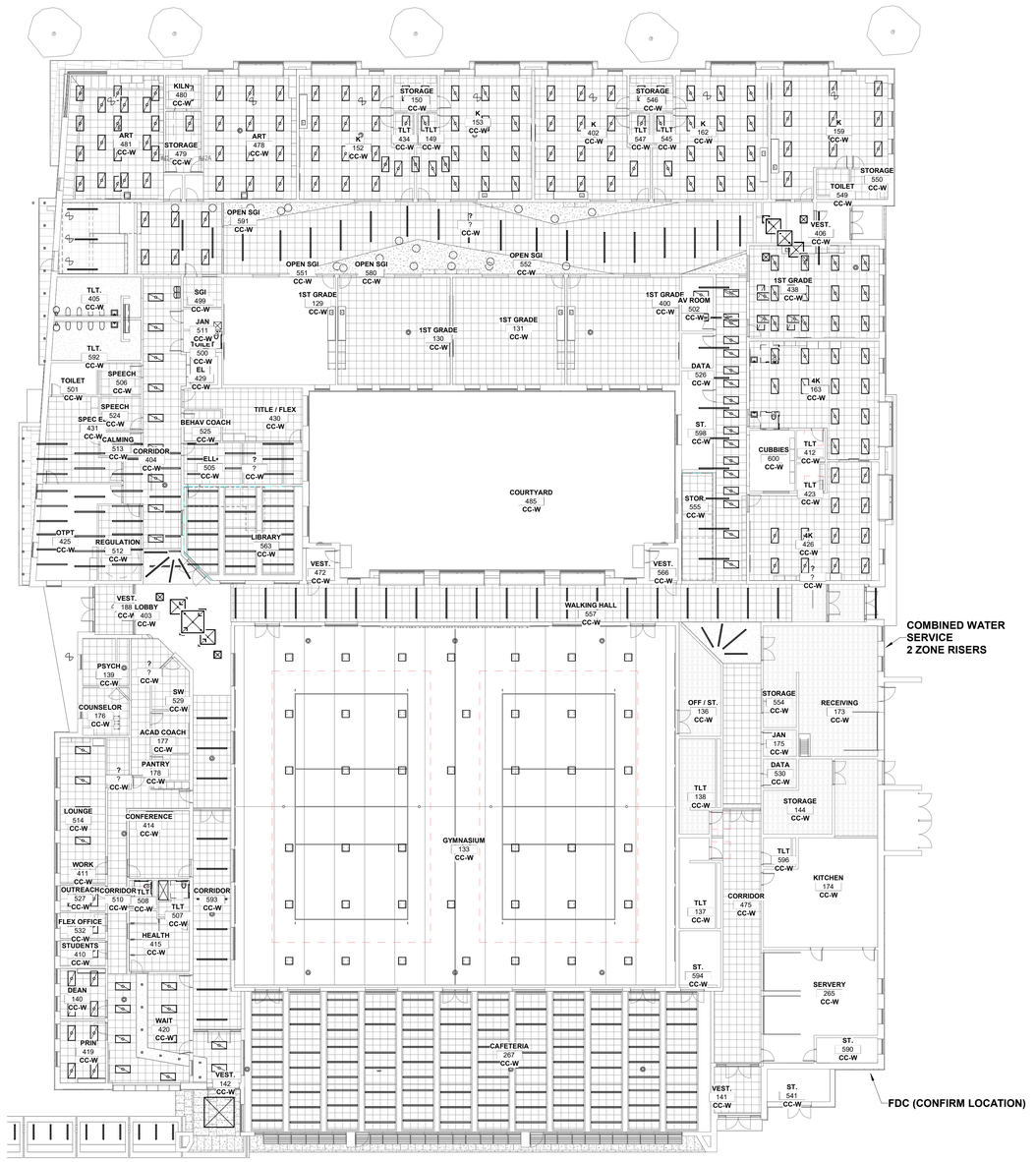
SHEET KEYNOTES

COMBINED WATER SERVICE 2 ZONE RISERS

FDC (CONFIRM LOCATION)



1 FP1.0 OVERALL FIRST FLOOR PLAN

Scale: 1/16" = 1'-0"

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Sheet Title:
OVERALL FIRST FLOOR PLAN

Sheet Number:
FP1.0

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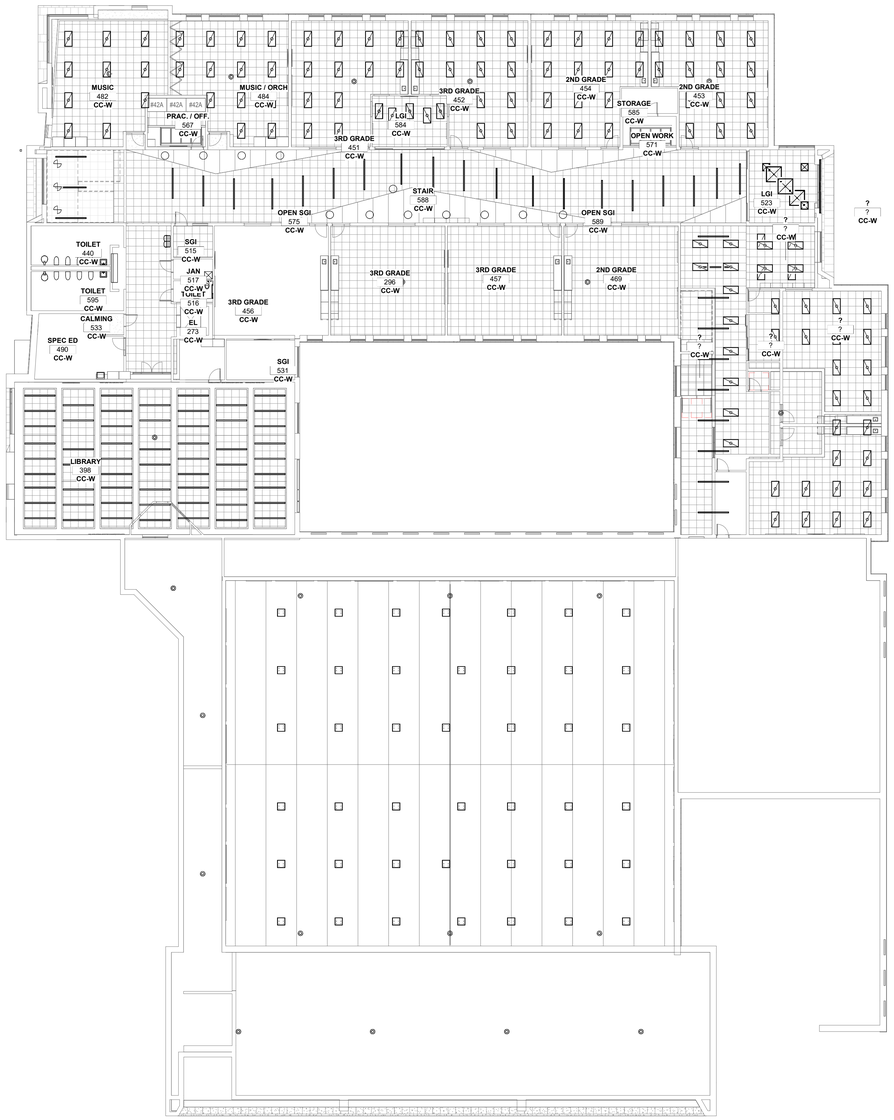
SHEET KEYNOTES



1 FP1.2 OVERALL SECOND FLOOR PLAN

Scale: 1/16" = 1'-0"

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Sheet Title:
OVERALL SECOND FLOOR PLAN

Sheet Number:
FP1.2

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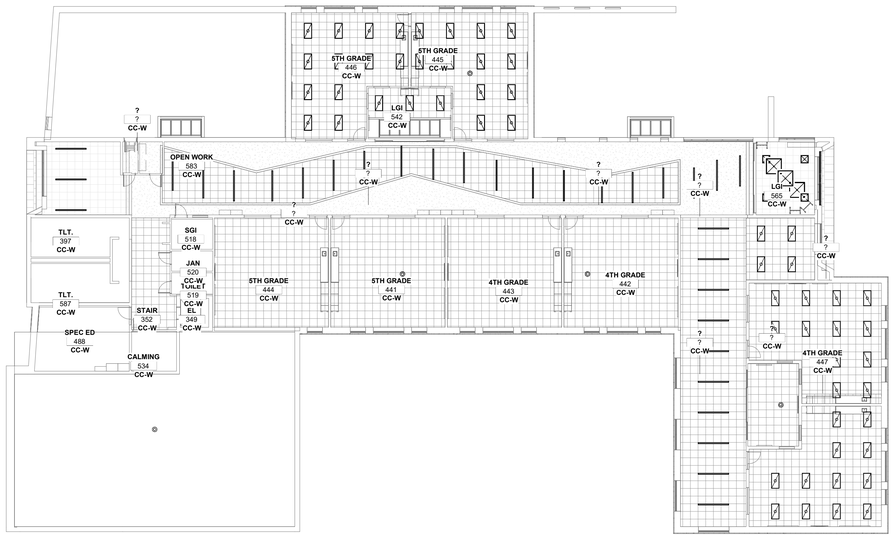

1 FP1.3 OVERALL THIRD FLOOR PLAN

Scale: 1/16" = 1'-0"

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OVERALL THIRD FLOOR PLAN

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PLUMBING SYMBOLS AND ABBREVIATIONS

THIS IS A COMPREHENSIVE SYMBOL AND ABBREVIATION LIST - NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.

PIPING SYSTEMS

CW	DOMESTIC COLD WATER - HARD
CWS	DOMESTIC COLD WATER - SOFT
HW	DOMESTIC HOT WATER - SUPPLY 120
HW-140	DOMESTIC HOT WATER - SUPPLY 140
HWR	DOMESTIC HOT WATER - RETURN 120
HWR-140	DOMESTIC HOT WATER - RETURN 140
NP-CW	NON-POTABLE COLD WATER - HARD
NP-CWS	NON-POTABLE COLD WATER - SOFT
NP-HW	NON-POTABLE HOT WATER - SUPPLY
NP-HWR	NON-POTABLE HOT WATER - RETURN
DI	DEIONIZED WATER
RO	REVERSE OSMOSIS WATER
TW	TEMPERED WATER - SUPPLY
TWR	TEMPERED WATER - RETURN
SAN	SANITARY WASTE
V	SANITARY VENT
GW	GREASE WASTE
AW	ACID WASTE
AV	ACID VENT
ST	STORM DRAINAGE - PRIMARY
OF	OVERFLOW DRAINAGE - SECONDARY
CLV	CLEAR WATER VENT
CLW	CLEAR WATER WASTE
DT	DRAIN TILE
PW	PROCESS WASTE
PV	PROCESS VENT
PD	PUMPED DISCHARGE
EXHAUST	EQUIPMENT - EXHAUST
INTAKE	EQUIPMENT - INTAKE
CA	COMPRESSED AIR
G	NATURAL GAS
LP	LIQUID PROPANE
M-AIR	MEDICAL - AIR
M-CO	MEDICAL - CARBON DIOXIDE
M-N	MEDICAL - NITROGEN
M-NO	MEDICAL - NITROUS OXIDE
M-OX	MEDICAL - OXYGEN
M-VAC	MEDICAL - VACUUM
ACE	WELDING - ACETYLENE
ARG	WELDING - ARGON
ARG/CO	WELDING - ARGON/CARBON DIOXIDE
OX	WELDING - OXYGEN
WV	WELDING - VENT
	DEMOLISHED PIPING

ACCESSORIES

	BACKFLOW PREVENTER - DC
	BACKFLOW PREVENTER - DCDA
	BACKFLOW PREVENTER - PVB
	BACKFLOW PREVENTER - RP
	SHUTOFF VALVE
	BUTTERFLY VALVE
	BALANCING VALVE
	BACKWATER VALVE
	CHECK VALVE
	THERMOSTATIC MIXING VALVE
	DRAIN TEMPERING VALVE
	THREE WAY VALVE - ELECTRICAL
	THREE WAY VALVE
	PRESSURE REGULATING VALVE
	SOLENOID VALVE
	MECHANICAL VALVE
	SUCTION DIFFUSER
	THERMOMETER
	WATER HAMMER ARRESTER
	PRESSURE GAUGE

FITTINGS

	ELBOW LONG SWEEP 90
	ELBOW SHORT SWEEP 90
	ELBOW
	TEE
	TEE
	CROSS
	TEE DOUBLE
	WYE 45 DEG
	WYE 45 DEG DOUBLE
	WYE COMBINATION
	WYE COMBINATION DOUBLE
	CAP
	COUPLING
	PLUG
	PIPE BREAKLINE
	P TRAP
	PIPE DROP / DOWN
	PIPE RISE / UP
	PIPE BRANCH RISE / UP
	PIPE BRANCH DROP / DOWN
2"ø SAN	PIPE TAG: SIZE & SYSTEM ABBREVIATION
2"ø	PIPE TAG: SIZE
SAN	PIPE TAG: SYSTEM ABBREVIATION
2"ø (0)	PIPE TAG: SIZE & FIXTURE UNITS

GENERAL

ANNOTATION SYMBOLS

X	REFERS TO PLAN NOTE NUMBER
XXX-X / XXX	FIXTURE AND EQUIPMENT TAG SPECIALTY EQUIPMENT REFERENCE TAG
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	CONNECT NEW TO EXISTING
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ARCH = XXX.XX' / CIVIL = XXX.XX'	ELEVATION MARKER

ABBREVIATIONS

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ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
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BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
BJ	BETWEEN JOISTS
BLDG	BUILDING
BLW	BELOW
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
BV	BALANCE VALVE
CB	CONSTRUCTION BULLETIN
CFH	CUBIC FEET PER HOUR
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CM	CONSTRUCTION MANAGER
CLG	CEILING
DEG	DEGREE(S)
DIA	DIAMETER
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FT	FOOT / FEET
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HC	HVAC CONTRACTOR
HP	HORSE POWER
HVAC	HEATING, VENTILATION, AIR CONDITIONING
ID	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IN	INCH
INV	INVERT
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LF	LINEAR FOOT / FEET
MAX	MAXIMUM
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MFR	MANUFACTURER
MIN	MINIMUM
MIN	MINUTE
MISC	MISCELLANEOUS
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
Ø	DIAMETER
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	PLUMBING CONTRACTOR
PLBG	PLUMBING
PRESS	PRESSURE
PS	PROJECT SUPPLEMENT
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH GAUGE
REC	RECESSED
REV	REVISION
RI	ROUGH-IN
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
SF	SQUARE FOOT
TEMP	TEMPERATURE
TYP	TYPICAL
UC	UNDERCOUNTER
UG	UNDERGROUND
VTR	VENT THROUGH ROOF
W/	WITH
W/O	WITHOUT

PLUMBING CONNECTION SCHEDULE							
TAG	DESCRIPTION	COLD WATER CONNECTION SIZE	CWFU	HOT WATER CONNECTION SIZE	HWFU	WASTE CONNECTION SIZE	WFU

GENERAL DEMOLITION NOTES

1. SEE SPECIFICATIONS FOR MORE INFORMATION.
2. EXISTING ITEMS SHOWN ON THESE DRAWING REFLECT A COMBINATION OF THE EXISTING CONTRACT DRAWINGS, AS-BUILT RECORD DRAWINGS, FIELD SURVEYS AND THE ENGINEER'S ESTIMATION OF PIPE ROUTES. ALL EXISTING PIPE LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. NOTIFY THE ENGINEER FOR ANY REUSED OF EXISTING PIPING THAT IS IN GOOD CONDITION AND SIZE APPROPRIATELY.
3. ITEMS SHOWN AS HEAVY DASHED ARE TO BE DEMOLISHED.
4. ITEMS SHOWN AS LIGHTER ARE EXISTING TO REMAIN.
5. COORDINATE DEMOLITION OF EXISTING PIPING TO BE REMOVED WITH GENERAL CONTRACTOR.
6. FIELD VERIFY LOCATIONS OF EXISTING PIPE MAINS. REUSE ANY PIPING OF SUFFICIENT SIZE IN GOOD CONDITION. REROUTE AS REQUIRED PER FIELD CONDITIONS.
7. WHERE EXISTING PIPING IS SHOWN TO BE REMOVED, CAP BRANCH PIPE IF NOT BEING USED FOR NEW CONSTRUCTION.

GENERAL INSTALLATION NOTES

1. SEE PLUMBING SPECIFICATIONS FOR MORE INFORMATION.
2. PLUMBING INSTALLATION SHALL BE INSTALLED PER WISCONSIN UNIFORM PLUMBING CODE AND PER LOCAL PLUMBING CODE FOR ITEMS NOT NOTED OR SHOWN ON THESE DRAWINGS.
3. EXISTING ITEMS SHOWN ON THESE DRAWING REFLECT A COMBINATION OF THE EXISTING CONTRACT DRAWINGS, AS-BUILT RECORD DRAWINGS, FIELD SURVEYS AND THE ENGINEER'S ESTIMATION OF PIPE ROUTES. ALL EXISTING PIPE LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED. REROUTE NEW PIPING AS REQUIRED PER FIELD CONDITIONS.
4. FIELD VERIFY UNDERGROUND PIPING LOCATION, DEPTH AND SIZE AT POINT OF CONNECTION AND THAT NEW PIPE ROUTE IS CLEAR OF UTILITIES AND OTHER OBSTRUCTIONS PRIOR TO INSTALLATION OF ANY UNDERGROUND PIPING. COSTS INCURRED FOR FAILURE TO DO SO SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
5. ALL PIPING IS TO BE CONCEALED. IF BUILDING CONSTRUCTION DOES NOT PERMIT CONCEALING PIPING, LOCATIONS AND ROUTING ARE TO BE APPROVED BY ARCHITECT/OWNER PRIOR TO INSTALLATION.
6. ROUTE ALL PIPING IN COORDINATION WITH OTHER TRADES.
7. FLOOR AND WALL CLEANOUT LOCATIONS NOT PERMITTED TO BE MOVED WITHOUT APPROVAL OF ARCHITECT/ENGINEER.
8. SEE ARCHITECTURAL PLANS FOR ADA RELATED INSTALLATION DETAILS.
9. SEE STRUCTURAL FOOTING, TRUSS AND JOIST ELEVATIONS AND DETAILS.
10. SEE HVAC PLANS FOR AREAS THAT ARE USED AS A RETURN AIR PLENUM. PROVIDE PLENUM RATED PIPE OR PIPE WRAP AS PER PROJECT'S PLUMBING SPECIFICATIONS.
11. SEE HVAC PLANS AND HVAC CONTRACTOR FOR FINAL LOCATION OF HVAC EQUIPMENT IN MECHANICAL / BOILER ROOMS TO COORDINATE FINAL LOCATIONS OF FLOOR / HUB / SITE DRAINS PRIOR TO INSTALLATION.
12. SEE PLUMBING ISOMETRICS SHEETS FOR PIPE SIZE AND LOAD INFORMATION NOT SHOWN ON FLOOR PLANS.
13. SLOPE ALL SANITARY AND STORM PIPING 3" AND LARGER AT 1/8"/FT UNLESS NOTED OTHERWISE.
14. SLOPE ALL SANITARY AND STORM PIPING 2" AND SMALLER AT 1/4"/FT UNLESS NOTED OTHERWISE.
15. SLOPE ALL SANITARY GREASE WASTE PIPING AT 1/4"/FT UNLESS NOTED OTHERWISE.
16. INSTALL CLEANOUTS AT STACKS WHICH PENETRATE THE LOWEST FLOOR LEVEL 30" A.F.F. UNLESS NOTED OTHERWISE.
17. PROVIDE ISOLATION BALL VALVES AND BALANCING VALVES TO ISOLATE COLD WATER, HOT WATER SUPPLY AND HOT WATER RETURN BRANCH PIPING FROM ITS COLD WATER, HOT WATER SUPPLY AND HOT WATER RETURN MAIN PIPING FOR EACH PLUMBING FIXTURE OR ROOMS WITH MULTIPLE PLUMBING FIXTURES. ALL WATER SUPPLY PIPING SHALL BE FLUSHED AND HOT WATER PIPING SYSTEM BALANCED BY PLUMBING CONTRACTOR. SEE PLUMBING SPECIFICATIONS FOR MORE INFORMATION.
18. INSTALL EXTERIOR HOSE BIBBS AT 18" A.F.F. UNLESS NOTED OTHERWISE.
19. INSTALL INTERIOR HOSE BIBBS AT 36" A.F.F. UNLESS NOTED OTHERWISE.
20. INSTALL DOWN SPOUT NOZZLES AT 18" A.F.F. UNLESS NOTED OTHERWISE.

PLUMBING SHEET INDEX

P000	GENERAL NOTES
P1.0	OVERALL FOUNDATION PLAN
P1.1	OVERALL FIRST FLOOR PLAN
P1.2	OVERALL SECOND FLOOR PLAN
P1.3	OVERALL THIRD FLOOR PLAN
P1.4	ROOF PLAN

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REVISIONS:

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Project Number: 3752

Issued For: SD Set 03/26/25

Sheet Title: GENERAL NOTES

Sheet Number: P000

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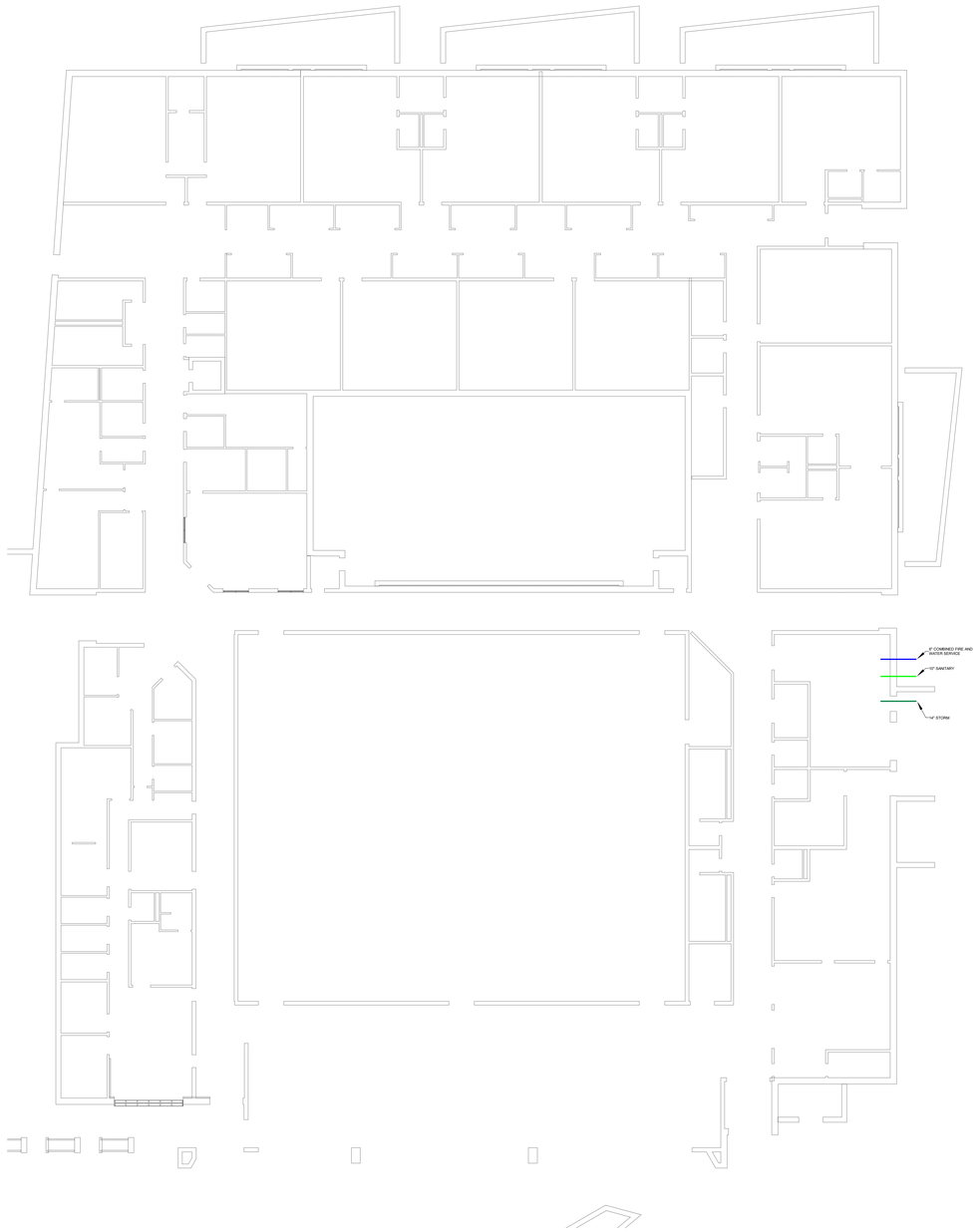

1 P1.0 OVERALL FOUNDATION P LAN
Scale: 1/16" = 1'-0"

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SD Set
03/26/25

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OVERALL FOUNDATION PLAN

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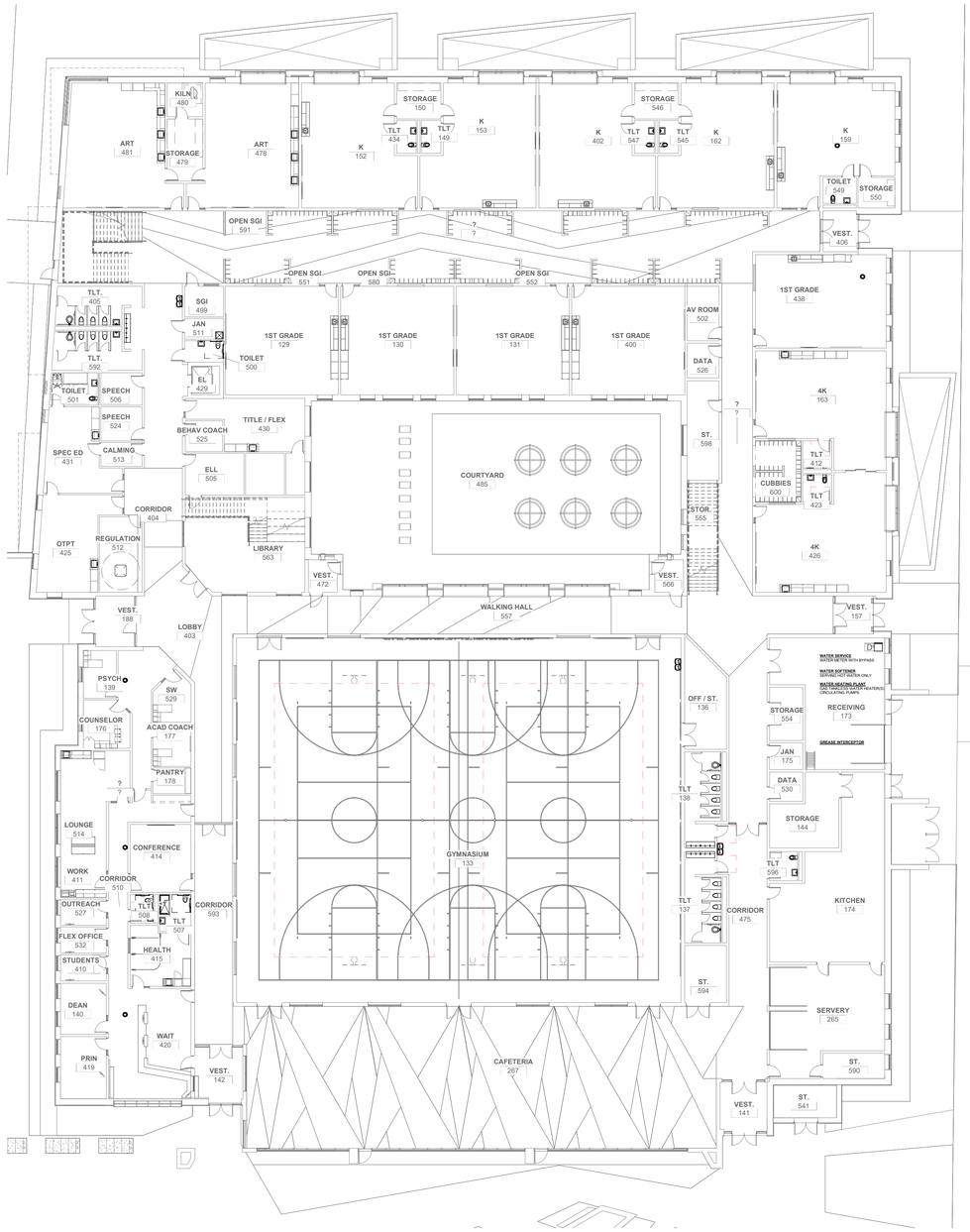

1 P1.1 OVERALL FIRST FLOOR PLAN

Scale: 1/16" = 1'-0"

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03/26/25

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OVERALL FIRST FLOOR PLAN

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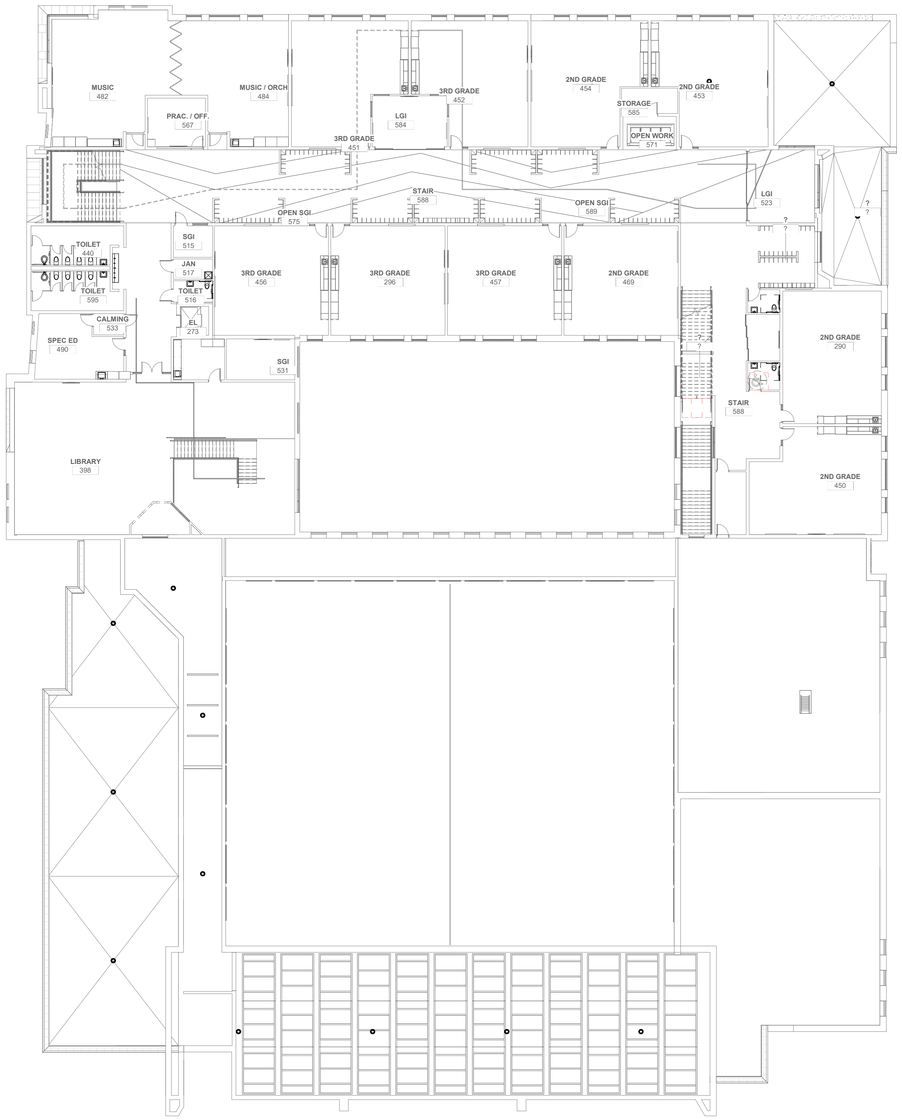

1 P1.2 OVERALL SECOND FLOOR PLAN

Scale: 1/16" = 1'-0"

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03/26/25

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OVERALL SECOND FLOOR PLAN

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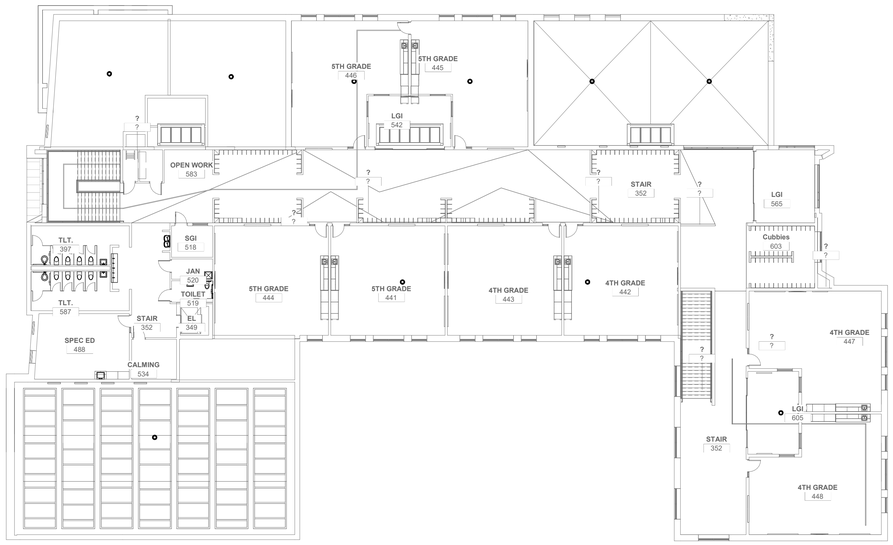

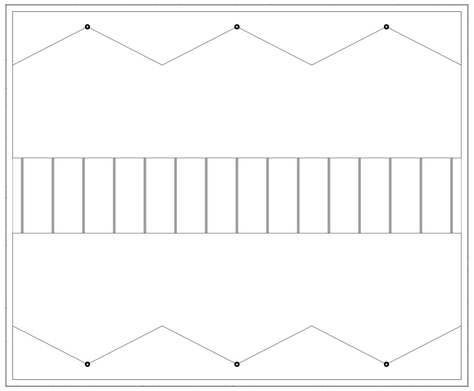

1 P1.3 OVERALL THIRD FLOOR PLAN

Scale: 1/16" = 1'-0"

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OVERALL THIRD FLOOR PLAN

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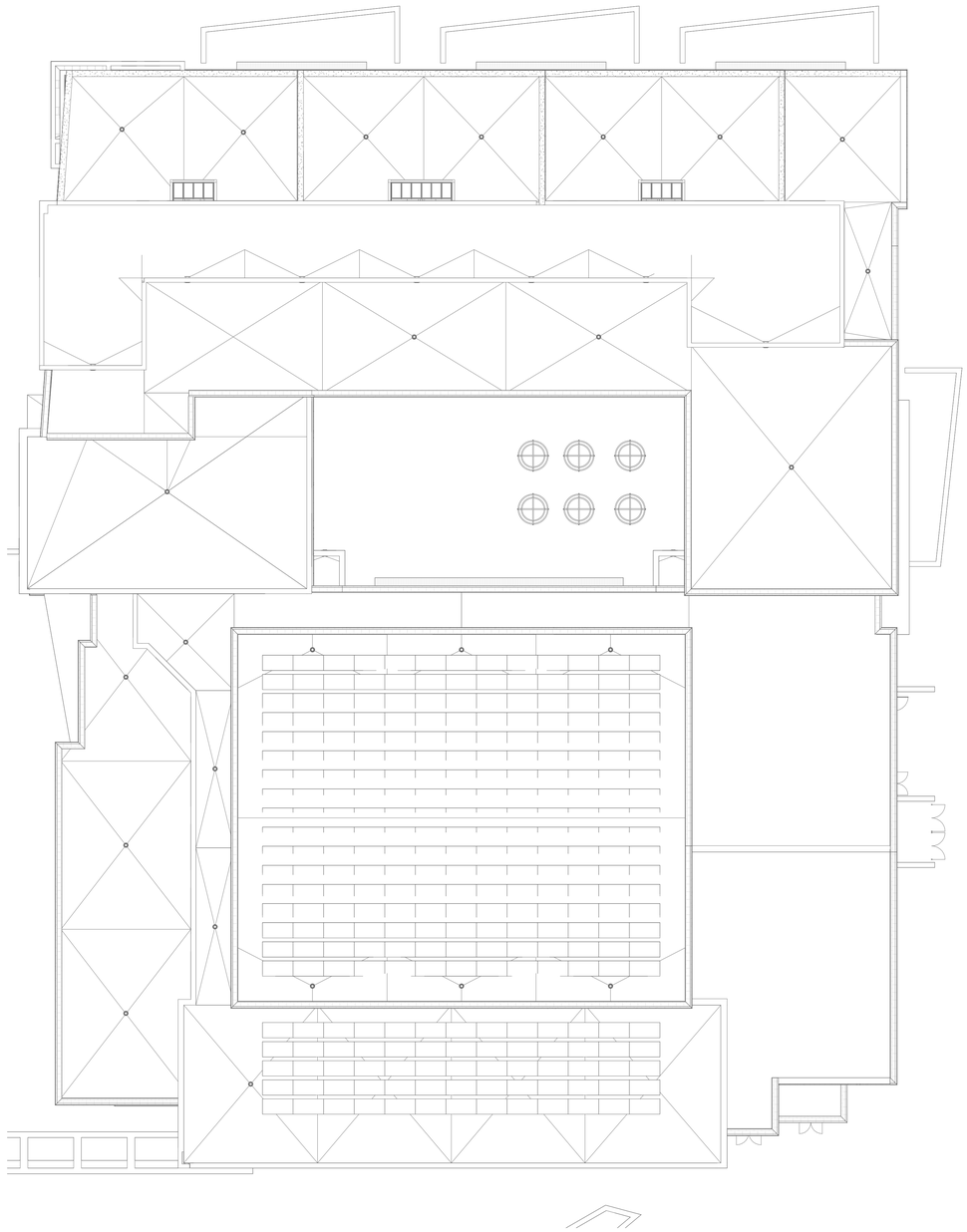

1 P1.4 ROOF PLAN
Scale: 1/16" = 1'-0"

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ROOF PLAN

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ELECTRICAL SYMBOLS AND ABBREVIATIONS

THIS IS A COMPREHENSIVE SYMBOL AND ABBREVIATION LIST - NOT ALL SYMBOLS ARE APPLICABLE TO THESE DRAWINGS.

ELECTRICAL DISTRIBUTION EQUIPMENT

- UTILITY TRANSFORMER
- UTILITY TRANSFORMER
- CT CABINET AND METER SOCKET
- GSAP — GENERATOR ANNUNCIATOR PANEL FLUSH OR SURFACE
- PANEL - NEW SURFACE MOUNTED; TAG = "XX"
- PANEL - NEW FLUSH MOUNTED; TAG = "XX"
- PANEL - EXISTING SURFACE MOUNTED; TAG = "XX"
- PANEL - EXISTING FLUSH MOUNTED; TAG = "XX"
- TRANSFORMER - FLOOR MOUNT; TAG = "T-XX"
- TRANSFORMER - WALL MOUNT; TAG = "T-XX"
- TRANSFER SWITCH; TAGS = "ATS-XXX-Y", "MTS-XXX-Y"
  TAGS XXX, 700=EMERGENCY SYSTEM
  701=LEGALLY REQUIRED STANDBY SYSTEM
  702=OPTIONAL STANDBY SYSTEM
  TAG Y=SYSTEM NUMBER
- SURGE PROTECTION DEVICE; TAG = SPD
  CONTACTOR ENCLOSURE PANEL; TAG = CX
  X = CONTACTOR NUMBER

MOTOR CONTROL

- X — HEAVY DUTY DISCONNECT; TAG XX, WP=WEATHERPROOF, F=FUSIBLE
- NON-COMBINATION STARTER
- COMBINATION STARTER
- MS — MANUAL STARTER
- (X) — MOTOR OUTLET TERMINAL, ON ROOF MOUNTED UNITS PROVIDE WEATHER PROOF DISCONNECTS. X = HORSE POWER OR MOTOR NUMBER IF SCHEDULE IS PROVIDED

WIRING DEVICES

SWITCHES

- SX — SINGLE POLE SWITCH; TAG X, 3=3 WAY, 4=4 WAY, D=DIMMER, H=LLUMINATED, K=KEYED, M=MOTION SENSOR SWITCH, P=PILOT, R=RELAY, WP=WEATHERPROOF, LVX=LOW VOLTAGE, TAG X = INDICATES NUMBER OF BUTTONS AT EACH SWITCH LOCATION
- $X — SWITCH TO BE DEMOLISHED, X = ABBREVIATIONS ABOVE
- SINGLE PUSH BUTTON - ADA DOOR BUTTON
  ADDITIONAL FUNCTIONALITY DEFINED ON PLANS
- UP/DN PUSH BUTTON
- MULTI PUSH BUTTON

RECEPTACLES

NO TAG=STANDARD RECEPTACLE, TAGS X, ARC=ARC FAULT RATED, CM=CEILING MOUNTED, CW=CLOTHES WASHER, D=EXTRA DEEP, DW=DISH WASHER, EWC=ELECTRIC WATER COOLER, FM=FLOOR MOUNTED, FR=FREEZER, HG=HOSPITAL GRADE, GD=GARBAGE DISPOSER, GFI=GROUND FAULT INTERRUPTER, GR=GAS RANGE, ICE=ICE MACHINE, IG=ISOLATED GROUND, MIC=MICROWAVE, REF=REFRIGERATOR, SP=SURGE PROTECTED, UCREF=UNDER COUNTER REFRIGERATOR, DEVICE, UPS=UNINTERRUPTED POWER SUPPLY, USB=UNIVERSAL SERIAL BUS, VM=VENDING MACHINE, WP/GFI=WEATHER PROOF/GROUND FAULT INTERRUPTER

- X — RECEPTACLE - SINGLE OR SIMPLEX
- X — RECEPTACLE - DUPLEX
  LINE INDICATES DEVICE MOUNTED AT 42" TO CENTER. NO LINE INDICATES DEVICE MOUNTED AT STANDARD HEIGHT UNLESS TAGGED OTHERWISE, TYPICAL ALL RECEPTACLE TYPES AND BLANK BOXES
- XX — RECEPTACLE - TAG XX, CD=CLOTHES DRYER (NEMA14-30R) ER=ELECTRIC RANGE (NEMA14-50R), K=KILN W=WELDER (NEMA 6-50R)
- X — RECEPTACLE - DUPLEX MOUNTED ABOVE COUNTER
- X — RECEPTACLE - DUPLEX WITH TOP HALF SWITCHED
- X — RECEPTACLE - DOUBLE DUPLEX
- X — RECEPTACLE - DUPLEX TRIPLE
- X — RECEPTACLE - DUPLEX QUAD
- X — BLANK OUTLET FOR FUTURE DEVICES 4" BOX, SINGLE GANG RING, BLANKPLATE, 1"C. STUBBED INTO ACCESSIBLE CEILING

WIRING DEVICES

MISCELLANEOUS

- SURFACE RACEWAY
- EQUIPMENT CONNECTION
- X — SPECIAL OUTLET, TAG = NUMBER ON SCHEDULE
- H — ELECTRIC HAND/HAIR DRYER
- X — DUAL SERVICE FLOOR BOX, TAG = TYPE IN SPECS
- X — SINGLE SERVICE FLOOR BOX, TAG = TYPE IN SPECS
- X — POKE THROUGH FLOOR BOX, TAG = TYPE IN SPECS
- CD — CORD DROP
- CR — CORD REEL
- LB — 90° CONDUIT BODY - THROUGH WALL
- LR — 90° CONDUIT BODY - TURN RIGHT
- LL — 90° CONDUIT BODY - TURN LEFT
- X EV — ELECTRIC VEHICLE CHARGING STATION, SEE PLANS FOR TYPES
- X RV — RECREATIONAL VEHICLE CHARGING STATION, SEE PLANS FOR TYPES
- X SP — MARINA SHORE POWER STATION, SEE PLANS FOR TYPES
- PP — POWER POLE - CEILING DOWN TO FLOOR
- J — J-BOX
- CONDUIT STUB THROUGH WALL BUSHED EACH END
- CABLE TRAY

LIGHTING

FIXTURES

- X — LIGHT FIXTURE - POLE MOUNTED; TAG = TYPE IN FIXTURE SCHEDULE
- X — LIGHT FIXTURE - CEILING MOUNTED FLUSH OR SURFACE; TAG = TYPE IN FIXTURE SCHEDULE
- X — WALL MOUNTED - FLUSH OR SURFACE; TAG = TYPE IN FIXTURE SCHEDULE
- X — LIGHT FIXTURE - FLUSH OR SURFACE; TAG = TYPE IN FIXTURE SCHEDULE
- X — EMERGENCY BATTERY UNIT LIGHT - WALL MOUNTED
- EMERGENCY BATTERY UNIT LIGHT - CEILING MOUNTED
- REMOTE EMERGENCY LIGHT

EXITS

- EXIT LIGHT - ONE FACE
  LINES REPRESENT WALL MOUNTED. NO LINES REPRESENT CEILING MOUNTED, TYPICAL ALL EXITS
- EXIT LIGHT - ONE FACE WITH EMERGENCY HEADS
  ARROWS INDICATE DIRECTION TO EXIT
- EXIT LIGHT - TWO FACE

SENSORS

- DUAL TECHNOLOGY OCCUPANCY SENSOR
  LINES REPRESENT WALL MOUNTED. NO LINES REPRESENT CEILING MOUNTED, TYPICAL ALL SENSORS
- MULTI DIRECTION DUAL TECHNOLOGY OCCUPANCY SENSOR
- U — ULTRASONIC OCCUPANCY SENSOR
- L — LONG THROW OCCUPANCY SENSOR
- HB — HIGH BAY OCCUPANCY SENSOR
- PC — PHOTOCELL
- DA — DAYLIGHT SENSOR

FIRE ALARM PANELS & FIRE ALARM SUPPORT ITEMS

- FACP — FIRE ALARM CONTROL PANEL
- FAAP — FIRE ALARM ANNUNCIATOR PANEL, FLUSH OR SURFACE
- FAPS — FIRE ALARM POWER SUPPLY
- FACC — FIRE ALARM COMMAND CENTER WITH MICROPHONE
- FM — FIRE ALARM MICROPHONE ENCLOSURE, FLUSH OR SURFACE
- RTS — REMOTE TEST SWITCH

NOTIFICATION APPLIANCE

TAGS X=CANDELA LEVEL, EX=EXPLOSION PROOF, WP=WATERPROOF

- WALL MOUNTED AUDIO (HORN) / VISUAL NOTIFICATION APPLIANCE
- X — WALL MOUNTED AUDIO (VOICE) / VISUAL NOTIFICATION APPLIANCE
- WALL MOUNTED FIRE ALARM SPEAKER
- S X — WALL MOUNTED VISUAL NOTIFICATION APPLIANCE
- X — CEILING MOUNTED AUDIO (HORN) / VISUAL NOTIFICATION APPLIANCE
- X — CEILING MOUNTED AUDIO (VOICE) /VISUAL NOTIFICATION APPLIANCE
- CEILING MOUNTED FIRE ALARM SPEAKER
- S X — CEILING MOUNTED VISUAL NOTIFICATION APPLIANCE
- F — WALL MOUNTED AUDIO (HORN) NOTIFICATION APPLIANCE
- B — WALL MOUNTED BELL
- MH — MAGNETIC DOOR HOLDER PER DETAIL 3/E3.1
- EH — ELECTRIC DOOR HOLDER
- DM — ADDRESSABLE CONTROL MODULE

FIRE ALARM

INITIATION DEVICE

- XX F — MANUAL PULL STATION; TAG XX, LC=LEXAN COVER, EX=EXPLOSION PROOF, WP=WEATHERPROOF
- G — GAS DETECTOR
- H — HEAT DETECTOR
- S — SMOKE DETECTOR
- S — SMOKE DETECTOR WITH SOUNDER BASE
- DS — DUCT SMOKE DETECTOR PER DETAIL 2/E3.1
- ES — ELEVATOR SMOKE DETECTOR PER DETAIL 5/E3.1
- CM — CARBON MONOXIDE DETECTOR
- FS — SPRINKLER FLOW SWITCH PER DETAIL 6/E3.1
- PS — SPRINKLER PRESSURE SWITCH
- TS — SPRINKLER TAMPER SWITCH PER DETAIL 6/E3.1
- ADDRESSABLE MONITOR MODULE

COMMUNICATION

DATA RACKS

TAGS, TCWX = TELECOMMUNICATION CLOSET NUMBER

- DATA RACK - OPEN FRAME 2 POST FLOOR MOUNTED
- DATA RACK - OPEN FRAME 4 POST FLOOR MOUNTED
- DATA RACK - OPEN FRAME WALL MOUNTED
- DATA RACK - ENCLOSED WALL MOUNTED
- GROUND BAR PER DETAIL 6/E4.0

DATA / IP PHONE, WAP & TELEPHONE DEVICES

TAGS X, NO TAG=SINGLE DROP, NUMBER INDICATES NUMBER OF DROPS IN EACH LOCATION, A=ATTENDANCE SCANNER, C=IP SECURITY CAMERA, K=KEYLESS ENTRY, USB=UNIVERSAL SERIAL BUS, V=VAPE SENSOR, W=WALL PHONE, PROVIDE 4" SQUARE DEEP BOX, 1-GANG RING, 1" CONDUIT STUBBED INTO ACCESSIBLE CEILING.

- X — DATA / IP PHONE OUTLET (STANDARD HEIGHT)
- X — DATA / IP PHONE OUTLET (MOUNTED AT 42" TO CENTER)
- WAP X — WIRELESS ACCESS POINT DATA OUTLET PER DETAIL 3/E8.0
- CDF X — COILED DATA FOR FUTURE USE
- X X — DATA / TELEPHONE OUTLET (STANDARD HEIGHT)
- X X — DATA / TELEPHONE OUTLET (MOUNTED AT 42" TO CENTER)
- X — TELEPHONE OUTLET (STANDARD HEIGHT)
- X — TELEPHONE OUTLET (MOUNTED AT 42" TO CENTER)

SOUND SYSTEM INPUTS PAGING/INTERCOM SYSTEM

TAGS XX, NO TAG=GENERAL PUBLIC ANNOUNCEMENTS, AS=AUDITORIUM, CL=CLASSROOM, CS=CAFETERIA, FH=FIELD HOUSE, FS=FITNESS, GS=GYM, IP=INFRASTRUCTURE, MP=MULTI-PURPOSE, PS=POOL, WS=WEIGHT ROOM

- XX A — AUXILIARY/INPUT SOUND JACK
- XX M — MICROPHONE OUTLET
- XX MC — ADMINISTRATION STATION SEE SOUND SYSTEM RISER
- XX V — VOLUME CONTROL
- C — WALL MOUNTED CALL-IN SWITCH BOX OR HANDSET

SPEAKERS

TAGS XX, NO TAG=GENERAL PUBLIC ANNOUNCEMENTS, AS=AUDITORIUM, CL=CLASSROOM, CS=CAFETERIA, FH=FIELD HOUSE, FS=FITNESS, GS=GYM, IP=INFRASTRUCTURE, MP=MULTI-PURPOSE, PS=POOL, WS=WEIGHT ROOM, WP=WEATHER PROOF

- XX W — SPEAKER - WALL RECESSED MOUNTED
- XX W — SPEAKER - WALL SURFACE MOUNTED WITH METAL ENCLOSURE
- XX W — SPEAKER - WALL SURFACE MOUNTED - TWO SIDED
- XX W — SPEAKER - WALL BRACKET MOUNTED
- XX H — SPEAKER HORN - WALL SURFACE MOUNTED
- XX C — SPEAKER - CEILING RECESSED MOUNTED
- XX — SPEAKER - CEILING SURFACE MOUNTED WITH METAL ENCLOSURE
- XX — SPEAKER - CEILING SURFACE MOUNTED WITH METAL ENCLOSURE - TWO SIDED
- XX P — SPEAKER - PENDANT MOUNTED
- XX P — SPEAKER - PENDANT MOUNTED - TWO SIDED
- XX — SPEAKER LOUD - SUSPENDED

PUBLIC ANNOUNCEMENT INDICATION DEVICE

- S — PUBLIC ANNOUNCEMENT INDICATION STROBE LIGHT - WALL MOUNTED
- S — PUBLIC ANNOUNCEMENT INDICATION STROBE LIGHT - CEILING MOUNTED

COMMUNICATION

CLOCKS

TAGS XX, NO TAG=ANALOG, DI=DIGITAL, DS=DIGITAL W/ DATA & W/SPEAKER, DSF=DIGITAL W/SPEAKER & FLASHER, DV=DIGITAL VIDEO DISPLAY WITH DATA, IP=INFRASTRUCTURE SYNCHRONIZED TIMEKEEPING SYSTEM VIA NETWORK TIME PROTOCOL WG=WIRE GUARD

- XX — CLOCK - WALL MOUNTED - SINGLE FACE
- XX — CLOCK - WALL MOUNTED - TWO FACE
- XX — CLOCK - CEILING SURFACE MOUNTED - TWO FACE
- CLOCK / SPEAKER BAFFLE - COMBINATION

TECHNOLOGY

- D — HDMI OUTLET
- TV — COAX OUTLET
- CEILING MOUNTED PROJECTOR PLATE
- P — MEDIA DELIVERY INPUT
- PP — MEDIA DELIVERY LOCATION

MISCELLANEOUS

- ARS — AREA OF REFUGE (CALL BOX) / TWO-WAY COMMUNICATION SYSTEM
- ARM — AREA OF REFUGE MASTER (BASE STATION) / TWO-WAY COMMUNICATION SYSTEM
- TWC — TWO-WAY COMMUNICATION (CALL BOX) PER DETAIL 2/E8.1
- TWCM — TWO-WAY COMMUNICATION MASTER (BASE STATION) PER DETAIL 2/E8.1

SECURITY

DOOR CONTROL

- AI — 2 WAY INTERCOM SYSTEM DOOR STATION
- AM — 2 WAY INTERCOM SYSTEM MASTER STATION
- AO — AUTOMATIC DOOR OPENER
- CA — COMBINATION CARD READER AND KEY PAD
- CR — CARD READER PER DETAIL 2/E5.1
- DB — DURESS BUTTON
- DC — DOOR POSITION SWITCH CONTACT
- DP — DOOR POSITION SWITCH
- EL — ELECTRIC TRIM LATCH PER DETAIL 2/E5.1
- ES — ELECTRIC DOOR STRIKE PER DETAIL 2/E5.1
- GB — GLASS BREAK SENSOR
- KP — KEY PAD
- LS — LIMIT SWITCH
- SM — SECURITY SYSTEM MOTION DETECTOR CEILING MOUNTED 360°
- M — SECURITY SYSTEM MOTION DETECTOR - WALL MOUNTED
- ML — MAGNETIC LOCK
- P — PANIC PULL STATION
- RX — REQUEST TO EXIT
- SS — SECURITY STROBE
- SINGLE PUSH BUTTON - FUNCTIONALITY DEFINED ON PLANS

CAMERAS

- SECURITY CAMERA - DIRECTIONAL
  LINES REPRESENT WALL OR POLE MOUNTED
  NO LINES REPRESENT CEILING MOUNTED (TYPICAL)
- SECURITY CAMERA - 90°
- SECURITY CAMERA - 180°
- SECURITY CAMERA - 270°
- SECURITY CAMERA - 360°

HEALTHCARE

- NH — NURSE CALL LIGHT
- N — NURSE CALL BEDSIDE STATION
- NS — NURSE CALL STAFF ACKNOWLEDGE
- NS — NURSE CALL CONTROL ROOM STATION
- NCPS — NURSE CALL POWER SUPPLY

GENERAL

ANNOTATION SYMBOLS

- (X) — REFERS TO PLAN NOTE NUMBER
- XXX — SPECIALTY EQUIPMENT REFERENCE TAG
- XX / XXX — DETAIL NUMBER / SHEET NO. WHERE DETAIL IS LOCATED

LINE LEGEND

- CIRCUIT HOMERUN TO 20A/1P BREAKER UNLESS SHOWN OTHERWISE ON DRAWINGS.
- INDICATES ITEMS CONNECTED TO SAME CIRCUIT BUT CONTROLLED SEPARATELY
- INDICATES ITEMS CONNECTED TO SAME CIRCUIT AND CONTROLLED TOGETHER

ABBREVIATIONS

AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLING UNIT
ATS	AUTOMATIC TRANSFER SWITCH
C	CONDUIT
CCU	COOLING CONDENSER UNIT
CKT	CIRCUIT
CM	CEILING MOUNTED
CT	CURRENT TRANSFORMER
CON	CONTACTOR
CP	CONTROL PANEL
CUH	CABINET UNIT HEATER
DIS	DISCONNECT
DM	DEMARC
EB	EXISTNG BREAKER TO REMAIN UNLESS NOTED OTHERWISE
EBB	ELECTRICAL BASE BOARD
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EL	ELEVATION
EM	EMERGENCY
EQ	EQUIPMENT
EOL	END OF LINE RESISTOR
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WALL HEATER
EX	EXPLOSION PROOF
F	FUSIBLE PROOF
FBO	FURNISHED BY OTHERS
FC	VARIABLE SPEED FAN CONTROL SWITCH
FR	FREEZER
FSD	FIRE SMOKE DAMPER
GC	GENERAL CONTRACTOR
(GFI)	GROUND FAULT INTERRUPTER BREAKER LOCATED IN ELECTRICAL PANEL
GND	GROUND
GSP	GYM SWITCH PANEL
GUH	GAS UNIT HEATER
HF	HEAT FAN
HP	HORSE POWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
IDF	INTERMEDIATE DISTRIBUTION FRAME
JB	JUNCTION BOX
MAU	MAKEUP AIR UNIT
MB	MOTORIZED BACKBOARD
MC	MECHANICAL CONTRACTOR
MDF	MAIN DISTRIBUTION FRAME
MOD	MOTOR OPERATED DAMPER
MTD	MOUNTED
MTS	MANUAL TRANSFER SWITCH
NL	NIGHT LIGHT
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OHD	OVERHEAD DOOR
OC	ON CENTER
PDB	PUNCH DOWN BLOCK
PNL	PANELBOARD
PS	POWER SUPPLY
RCP	RELAY CONTROL PANEL
RTU	ROOF TOP UNIT
SAP	SECURITY ANNUNCIATOR PANEL
SCP	SECURITY CONTROL PANEL
SD	SMOKE DAMPER
SJB	SOUND SYSTEM JUNCTION BOX
SPD	SURGE PROTECTION DEVICE
SS	STAINLESS STEEL
SV	SOLENOID VALVE
TC	TELECOMMUNICATION CLOSET
TCP	TEMPERATURE CONTROL PANEL
TGB	TELECOMMUNICATION GROUND BAR MASTER
TJB	TERMINAL JUNCTION BOX
TRN	TRANSFORMER
TRS	TRANSFER SWITCH
TTB	TELEPHONE TERMINAL BOARD
UC	UNDERCOUNTER
UPS	UNINTERRUPTED POWER SUPPLY
UH	UNIT HEATER
VFD	VARIABLE FREQUENCY DRIVE
W	WELDER
WE	WALL EXHAUST
WG	WIRE GUARD
WH	WATER HEATER
WP	WEATHER PROOF
WP/GFI	WEATHER PROOF / GROUND FAULT INTERRUPTER
XP	CLASS 1, DIV. 1 EQUIPMENT

ELECTRICAL SHEET LIST

Sheet Number	Sheet Name
E0.0	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E0.1	ELECTRICAL SITE PLAN
E1.0	OVERALL FLOOR PLANS
E1.1AL	UNIT A - FIRST FLOOR PLAN - LIGHTING
E1.1AP	UNIT A - FIRST FLOOR PLAN - POWER
E1.1BL	UNIT B - FIRST FLOOR PLAN - LIGHTING
E1.1BP	UNIT B - FIRST FLOOR PLAN - POWER
E1.2AL	UNIT A - SECOND FLOOR PLAN - LIGHTING
E1.2AP	UNIT B - SECOND FLOOR PLAN - POWER
E1.3.AL	UNIT A - THIRD FLOOR PLAN - LIGHTING
E1.3AP	UNIT A - THIRD FLOOR PLAN - POWER
E2.0	ENLARGED KITCHEN PLAN & SCHEDULES
E3.0	FLOOR PLANS - FIRE ALARM
E3.1	FIRE ALARM DETAILS
E4.0	DATA ROUTING PLANS AND DETAILS
E4.1	LOCAL AREA NETWORK RISER
E5.0	FLOOR PLANS - SECURITY
E5.1	SECURITY DETAILS
E6.0	ONE LINE DIAGRAM
E6.1	PANEL SCHEDULES
E7.0	FIXTURE & ELECTRICAL MOTOR STARTER SCHEDULE
E8.0	ELECTRICAL DETAILS
E8.1	ELECTRICAL DETAILS

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Project Number: 3752

Issued For: SD Set 03/26/25

Sheet Title: ELECTRICAL SYMBOLS AND ABBREVIATIONS

Sheet Number: E0.0

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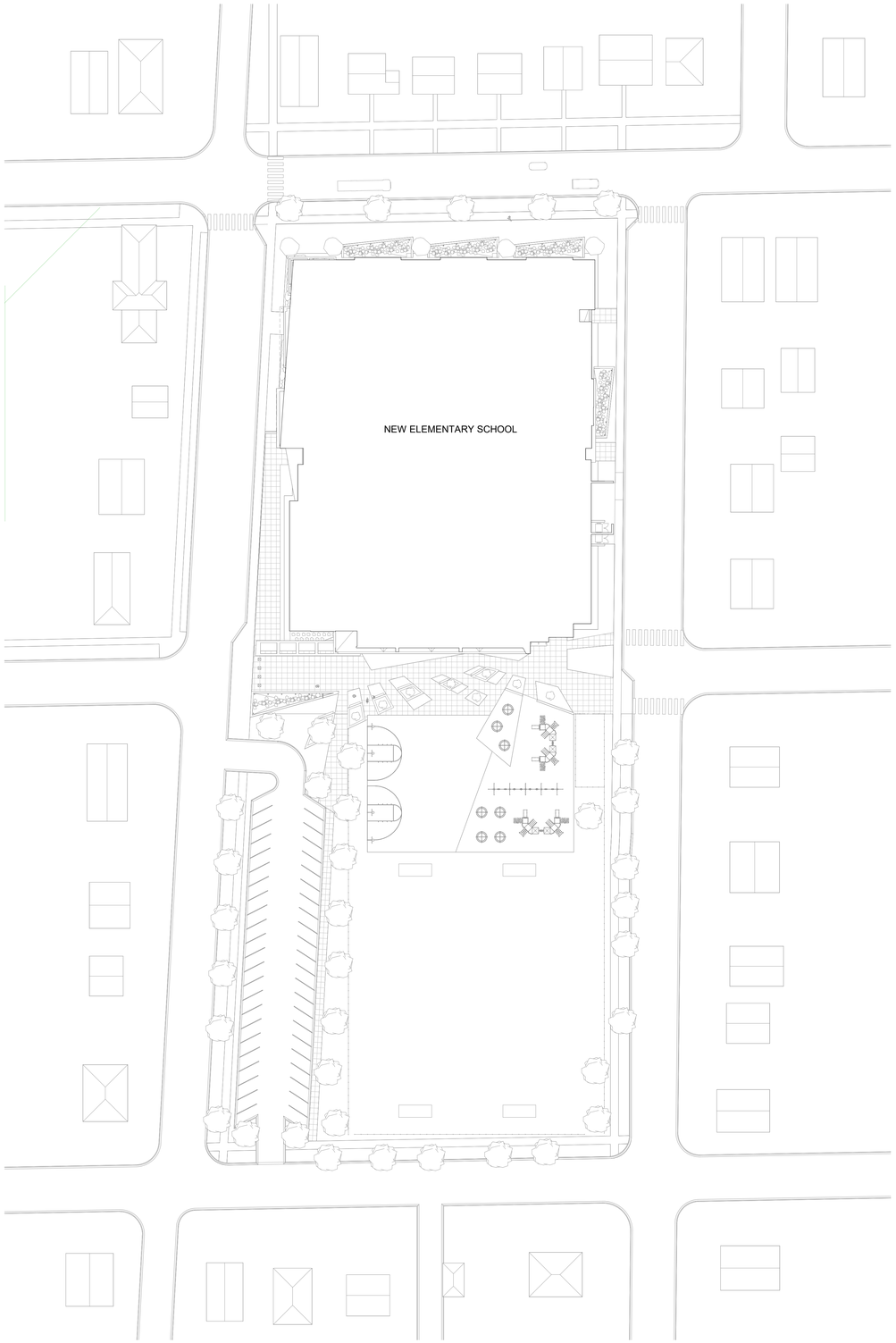

4A E0.1 ELECTRICAL SITE PLAN
Scale: 1" = 40'-0"

GENERAL NOTES

1. UNLESS SHOWN OTHERWISE, ALL WIRING SHOWN IS (2)#10 AND #10 GROUND IN 1" PVC.
2. INSTALL PULL CORD IN ALL EMPTY CONDUITS.
3. PROVIDE CONCRETE BASE ROUGH-IN FOR ALL TYPE _____ FIXTURES PER DETAIL 4/E8.0.
4. UNLESS SHOWN OTHERWISE, ALL CONDUITS BURIED 2'-6" BELOW FINISHED GRADE.
5. PROVIDE SITE LIGHTING CONTROL PANEL PER DETAIL 5/E8.0.
6. BRING SITE EXCAVATION AND TOPPING BACK TO ORIGINAL CONDITION IF TRENCHING IS DONE ON COMPACTED SURFACES.
7. ALL CONDUITS STUBBED OUT OF BUILDINGS SHALL BE DONE PER DETAIL 2/E8.0.

PLAN NOTES (X)

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ELECTRICAL SITE PLAN

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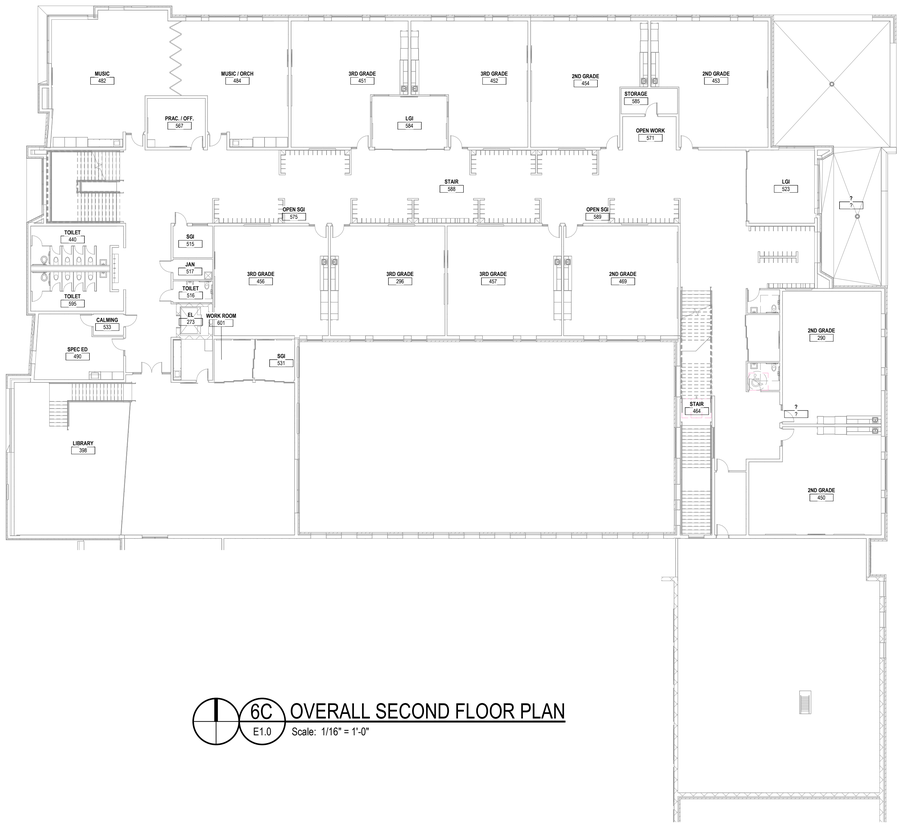
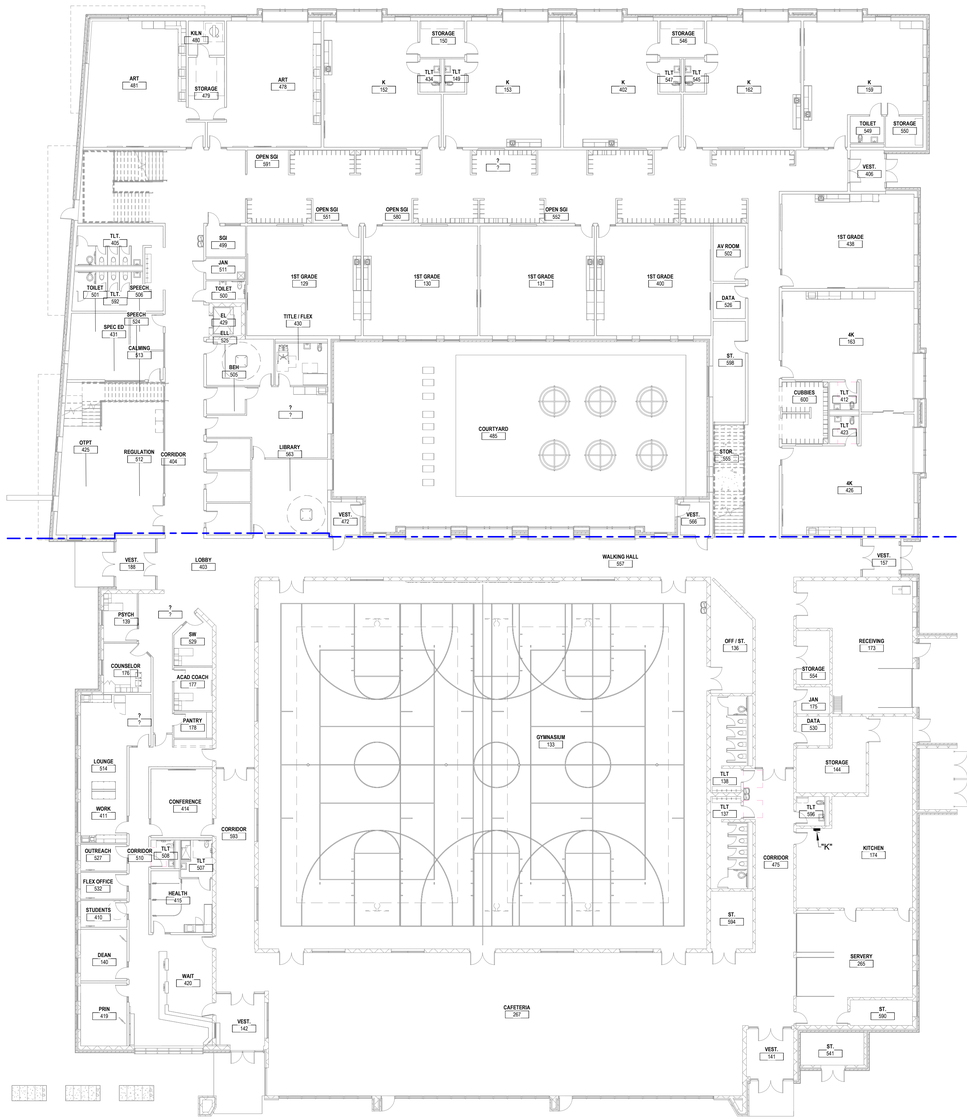


6C OVERALL SECOND FLOOR PLAN
E1.0 Scale: 1/16" = 1'-0"



2B OVERALL FIRST FLOOR PLAN
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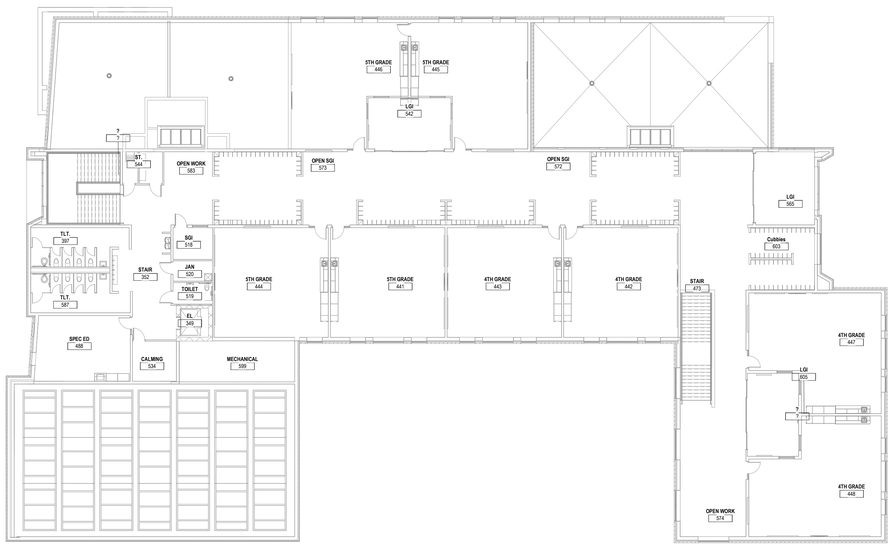
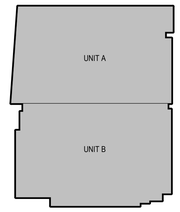


6A OVERALL THIRD FLOOR PLAN
E1.0 Scale: 1/16" = 1'-0"

PLAN NOTES (X)



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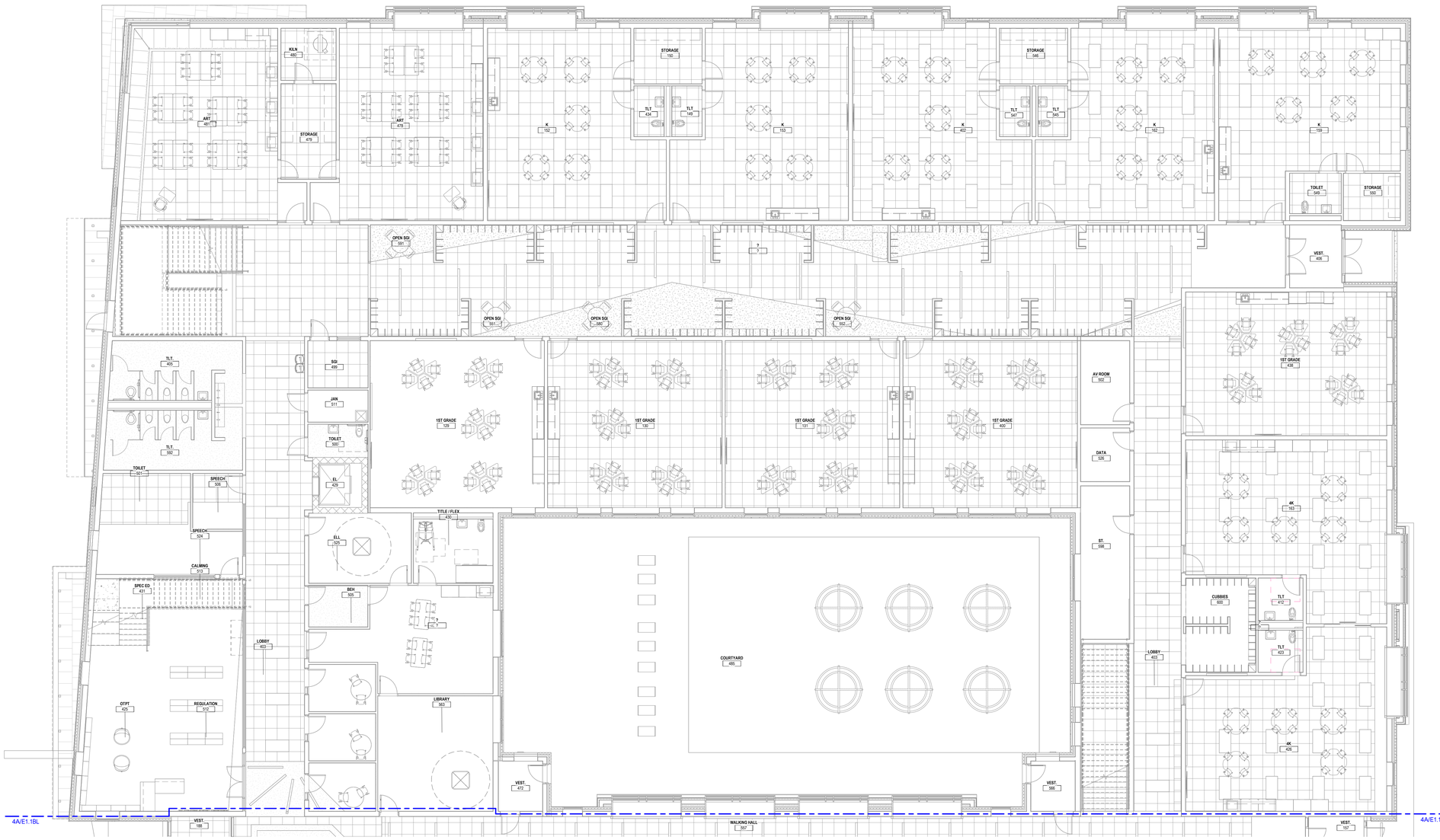
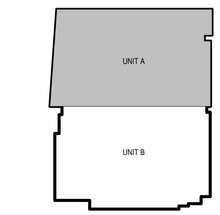
GENERAL NOTES

1. ALL EXTERIOR LIGHTING AND BUILDING PERIMETER LIGHTING FIXTURES SHALL BE CIRCUITED WITH THREE WIRES PLUS GROUND FOR FUTURE CONTROL CAPABILITY. SEE DETAIL 5/E8.0. CONTROLS ARE LOCATED NEXT TO PANEL (#10 WIRE MINIMUM).
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE ( ) INDICATES FIXTURE CONNECTED TO EMERGENCY/NIGHT LIGHT CIRCUIT.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 1/E8.0.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.

PLAN NOTES (X)



4A / E1.1AL UNIT A - FIRST FLOOR PLAN - LIGHTING
Scale: 1/8" = 1'-0"



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UNIT A - FIRST FLOOR PLAN - LIGHTING

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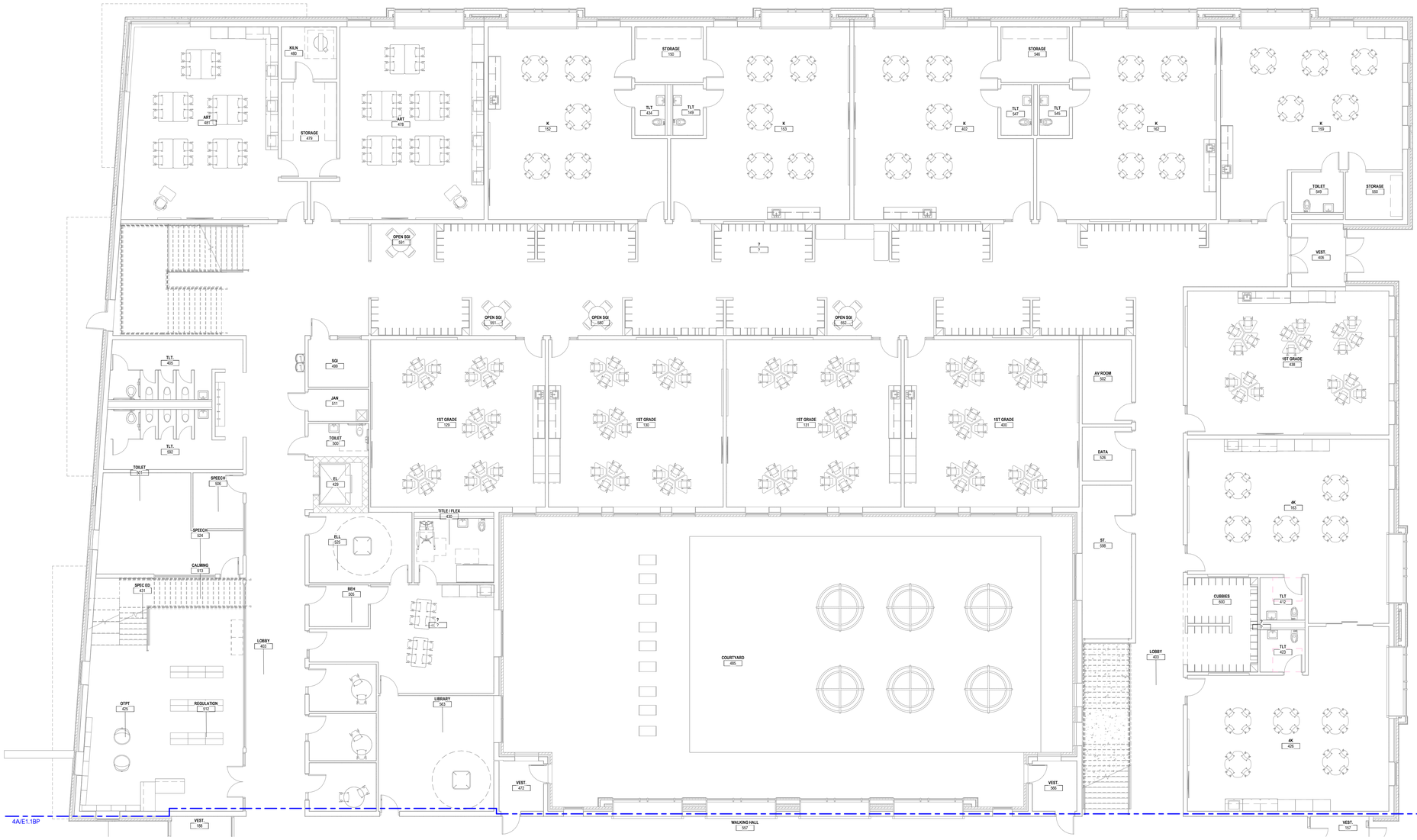
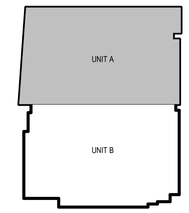
GENERAL NOTES

1. PROVIDE EXTERIOR RECEPTACLES PER DETAIL 7/E8.0.
2. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL 2/E8.0.
3. CONFIRM EXACT LOCATION OF ALL OUTLETS IN OFFICES AND IMC WITH OWNER PRIOR TO ROUGH-IN.
4. ALL RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) TO BE ROUGHED-IN BEHIND UNIT. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN. CONFIRM RECEPTACLE OR DIRECT CONNECTION.
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.

PLAN NOTES (X)



4A / E1.1AP UNIT A - FIRST FLOOR PLAN - POWER
Scale: 1/8" = 1'-0"



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UNIT A - FIRST FLOOR PLAN - POWER

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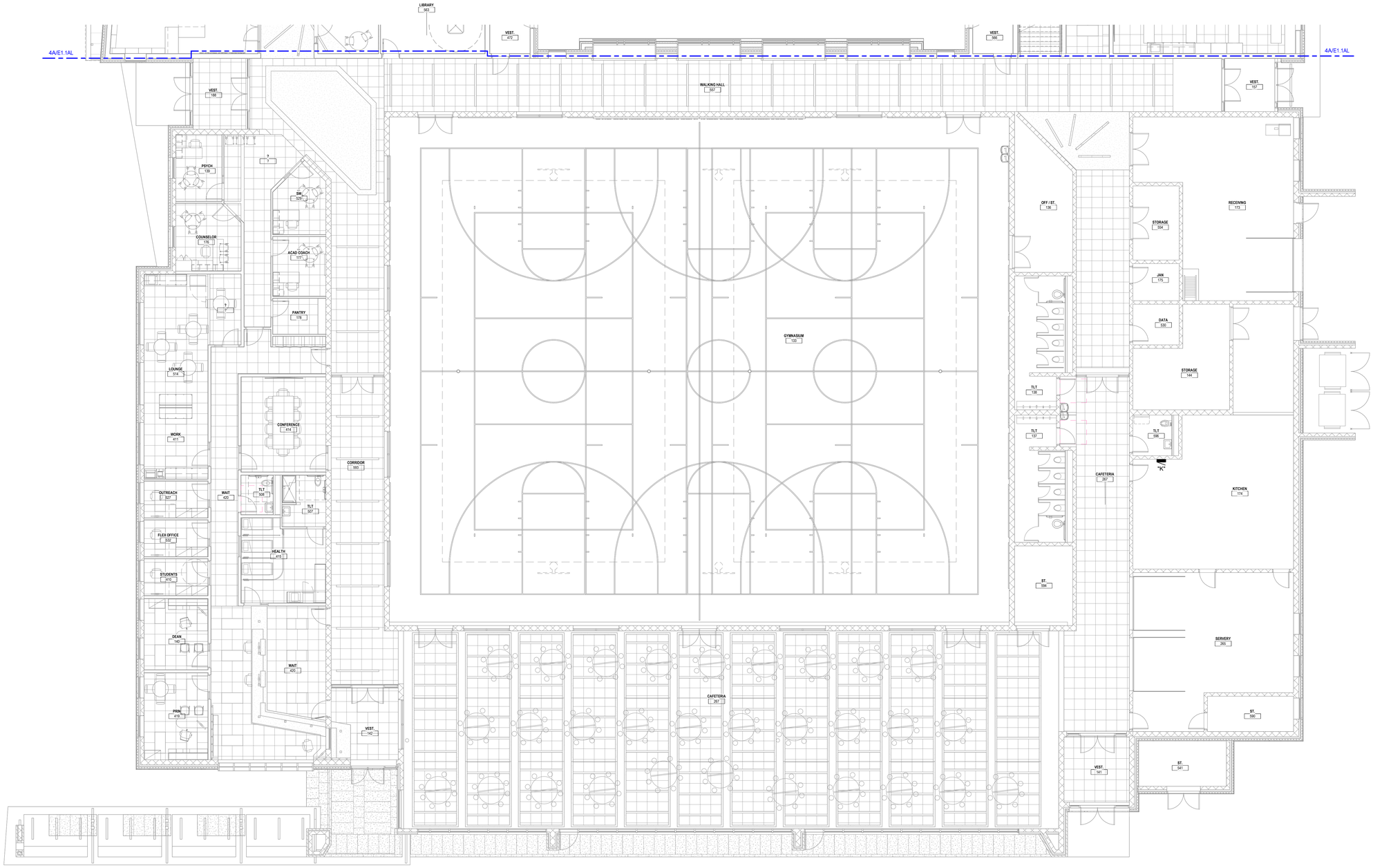
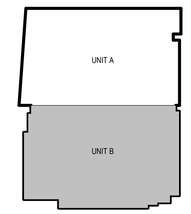
GENERAL NOTES

1. ALL EXTERIOR LIGHTING AND BUILDING PERIMETER LIGHTING FIXTURES SHALL BE CIRCUITED WITH THREE WIRES PLUS GROUND FOR FUTURE CONTROL CAPABILITY. SEE DETAIL 5/E8.0. CONTROLS ARE LOCATED NEXT TO PANEL (#10 WIRE MINIMUM).
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE (▨) INDICATES FIXTURE CONNECTED TO EMERGENCY/NIGHT LIGHT CIRCUIT.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 1/E8.0.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.

PLAN NOTES (X)



4A E1.1BL UNIT B - FIRST FLOOR PLAN - LIGHTING
Scale: 1/8" = 1'-0"



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UNIT B - FIRST FLOOR PLAN - LIGHTING

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GENERAL NOTES

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2. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL 2/E8.0.
3. CONFIRM EXACT LOCATION OF ALL OUTLETS IN OFFICES AND IMC WITH OWNER PRIOR TO ROUGH-IN.
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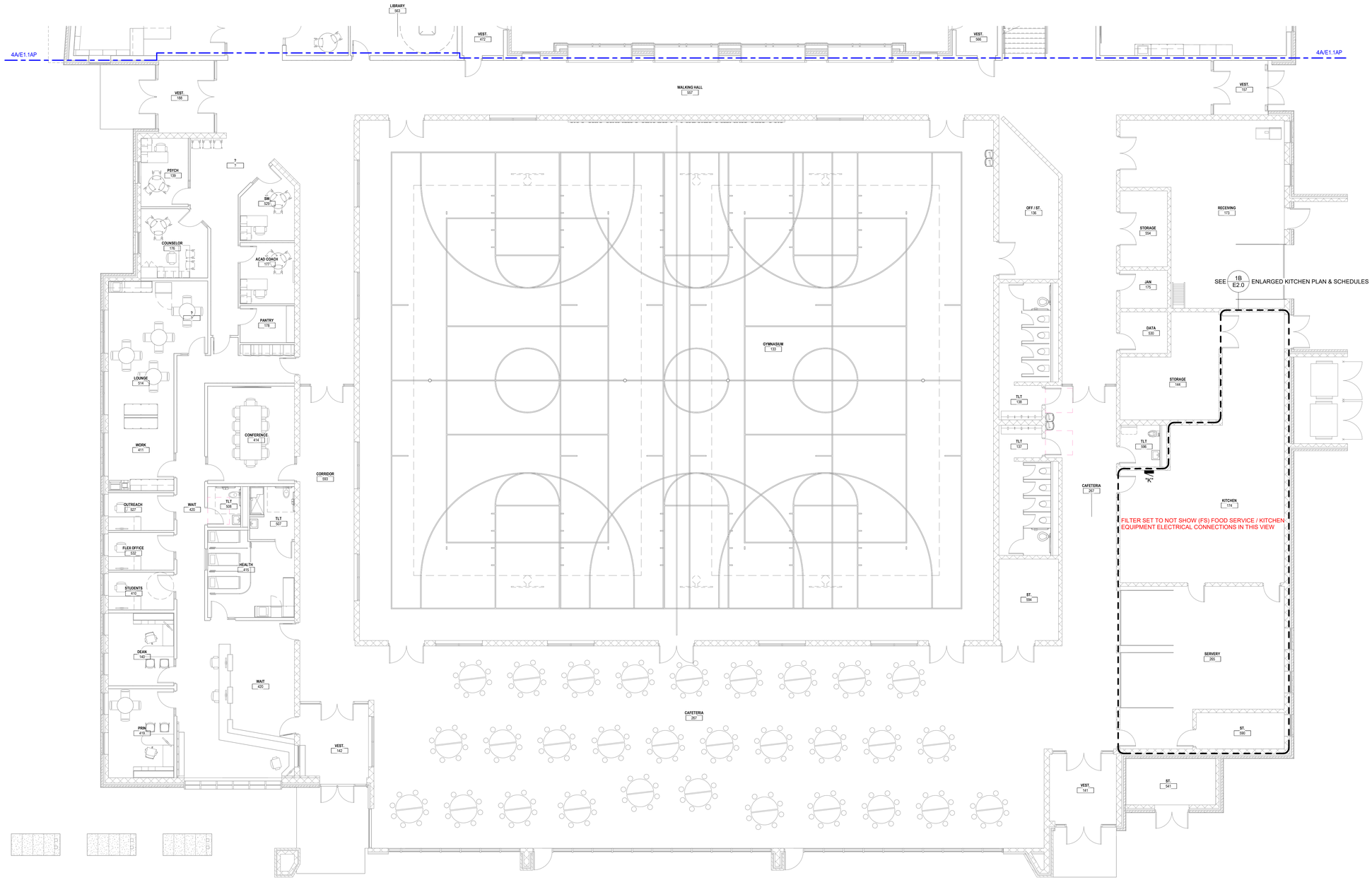
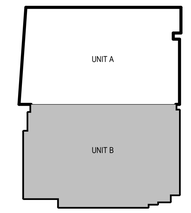
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.

PLAN NOTES (X)



4A / E1.1BP UNIT B - FIRST FLOOR PLAN - POWER
Scale: 1/8" = 1'-0"



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UNIT B - FIRST FLOOR PLAN - POWER

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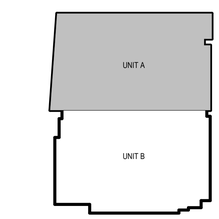
TYPICAL CLASSROOM LIGHTING LAYOUT

GENERAL NOTES

1. ALL EXTERIOR LIGHTING AND BUILDING PERIMETER LIGHTING FIXTURES SHALL BE CIRCUITED WITH THREE WIRES PLUS GROUND FOR FUTURE CONTROL CAPABILITY. SEE DETAIL 5/E8.0, CONTROLS ARE LOCATED NEXT TO PANEL (#10 WIRE MINIMUM).
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE ( ) INDICATES FIXTURE CONNECTED TO EMERGENCY/NIGHT LIGHT CIRCUIT.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 1/E8.0.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.

PLAN NOTES (X)

5A / E1.2AL UNIT A - SECOND FLOOR - LIGHTING
Scale: 1/8" = 1'-0"



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Sheet Title:
UNIT A - SECOND FLOOR PLAN - LIGHTING

Sheet Number:
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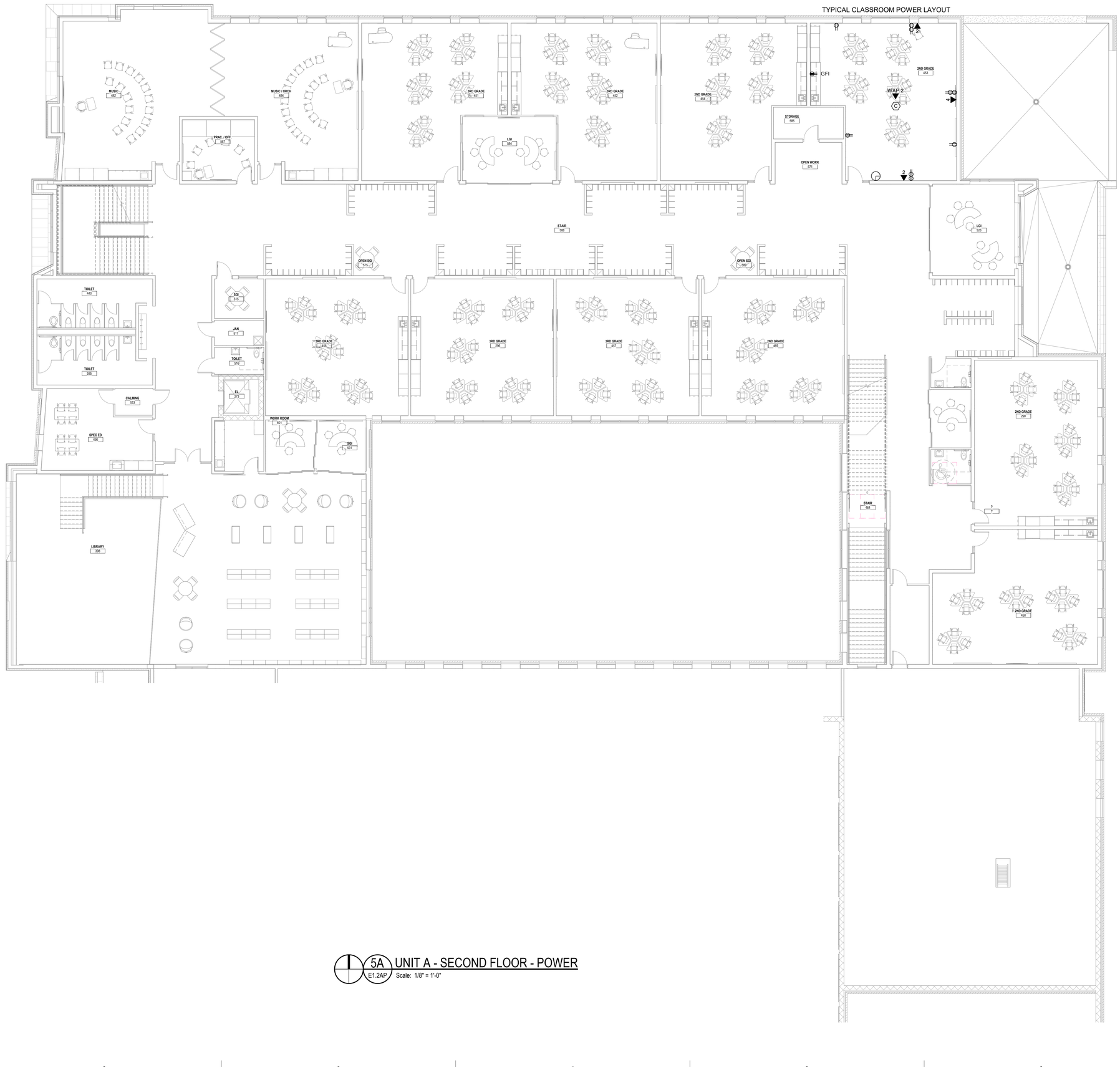
TYPICAL CLASSROOM POWER LAYOUT



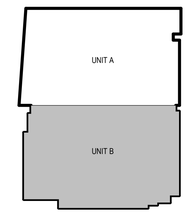
GENERAL NOTES

1. PROVIDE EXTERIOR RECEPTACLES PER DETAIL 7 / E8.0 .
2. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL 2 / E8.0 .
3. CONFIRM EXACT LOCATION OF ALL OUTLETS IN OFFICES AND IMC WITH OWNER PRIOR TO ROUGH-IN.
4. ALL RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) TO BE ROUGHED-IN BEHIND UNIT. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN. CONFIRM RECEPTACLE OR DIRECT CONNECTION.
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.

PLAN NOTES (X)

5A / E1.2AP UNIT A - SECOND FLOOR - POWER

Scale: 1/8" = 1'-0"



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Project Number:
3752

Issued For:
SD Set
03/26/25

Sheet Title:
UNIT B - SECOND FLOOR PLAN - POWER

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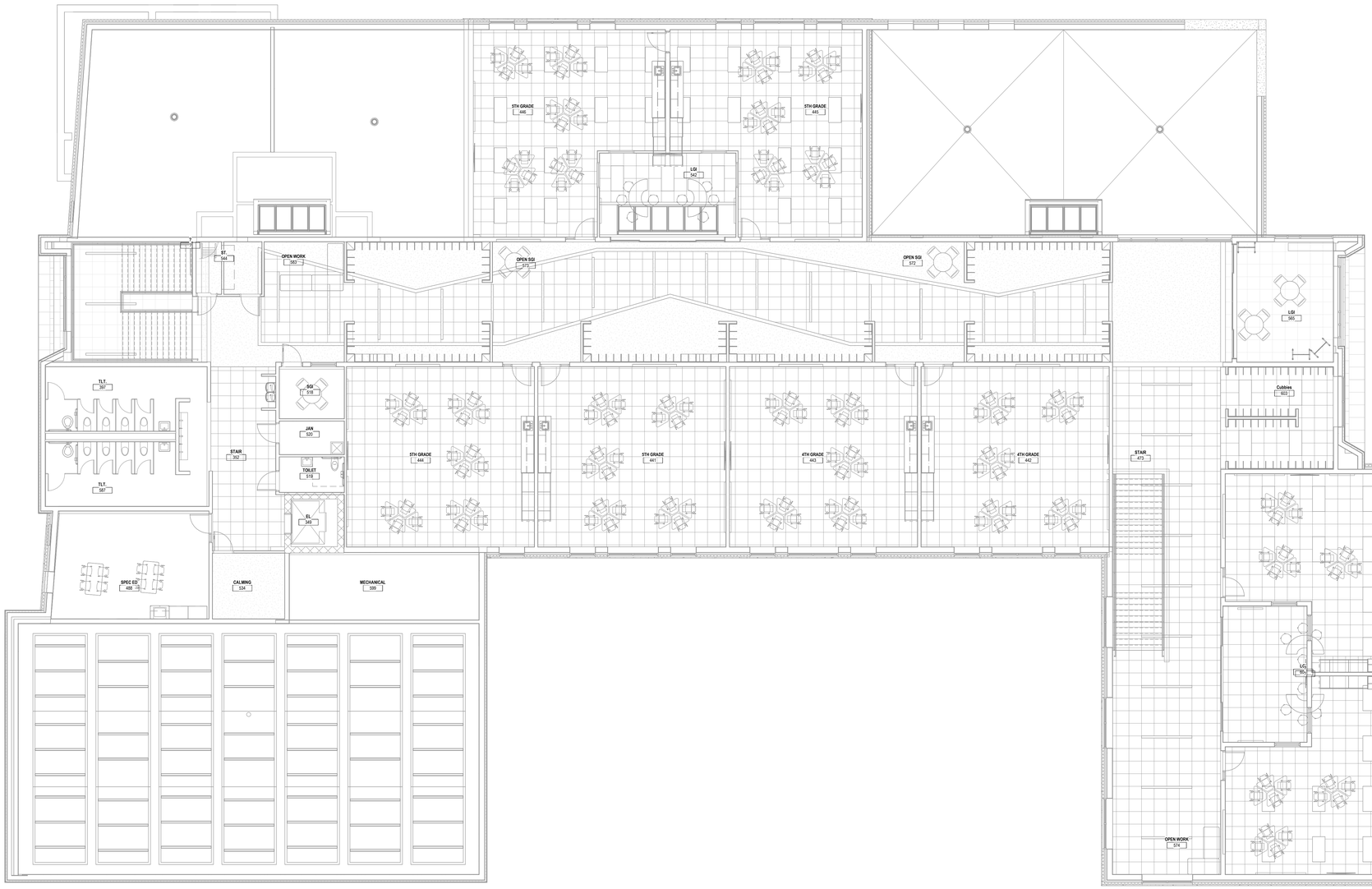
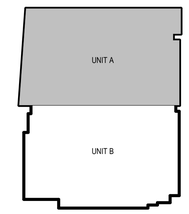
GENERAL NOTES

1. ALL EXTERIOR LIGHTING AND BUILDING PERIMETER LIGHTING FIXTURES SHALL BE CIRCUITED WITH THREE WIRES PLUS GROUND FOR FUTURE CONTROL CAPABILITY. SEE DETAIL 5/E8.0. CONTROLS ARE LOCATED NEXT TO PANEL (#10 WIRE MINIMUM).
2. ALL LIGHTING FIXTURES IN MECHANICAL ROOMS SHALL BE LAID OUT ON SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN ROOM.
3. ALL EXIT LIGHTS THIS SHEET SHALL BE CIRCUITED TO LIGHTING IN ROOM PER NEC.
4. SHADED FIXTURE (▨) INDICATES FIXTURE CONNECTED TO EMERGENCY/NIGHT LIGHT CIRCUIT.
5. IN ROOMS WITH OCCUPANCY SENSOR, GENERAL ILLUMINATION IN ROOM SHALL BE CONTROLLED BY SENSOR. EMERGENCY LIGHTING SHALL NOT BE CONNECTED TO SENSOR. CONTRACTOR TO DETERMINE BEST LOCATION FOR SENSOR IN FIELD WITH MANUFACTURER. SEE DETAIL 1/E8.0.
6. SEE ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF CEILING MOUNTED LIGHT FIXTURES.

PLAN NOTES (X)



4A E1.3.AL UNIT A - THIRD FLOOR - LIGHTING
Scale: 1/8" = 1'-0"



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Sheet Title:
UNIT A - THIRD FLOOR PLAN - LIGHTING

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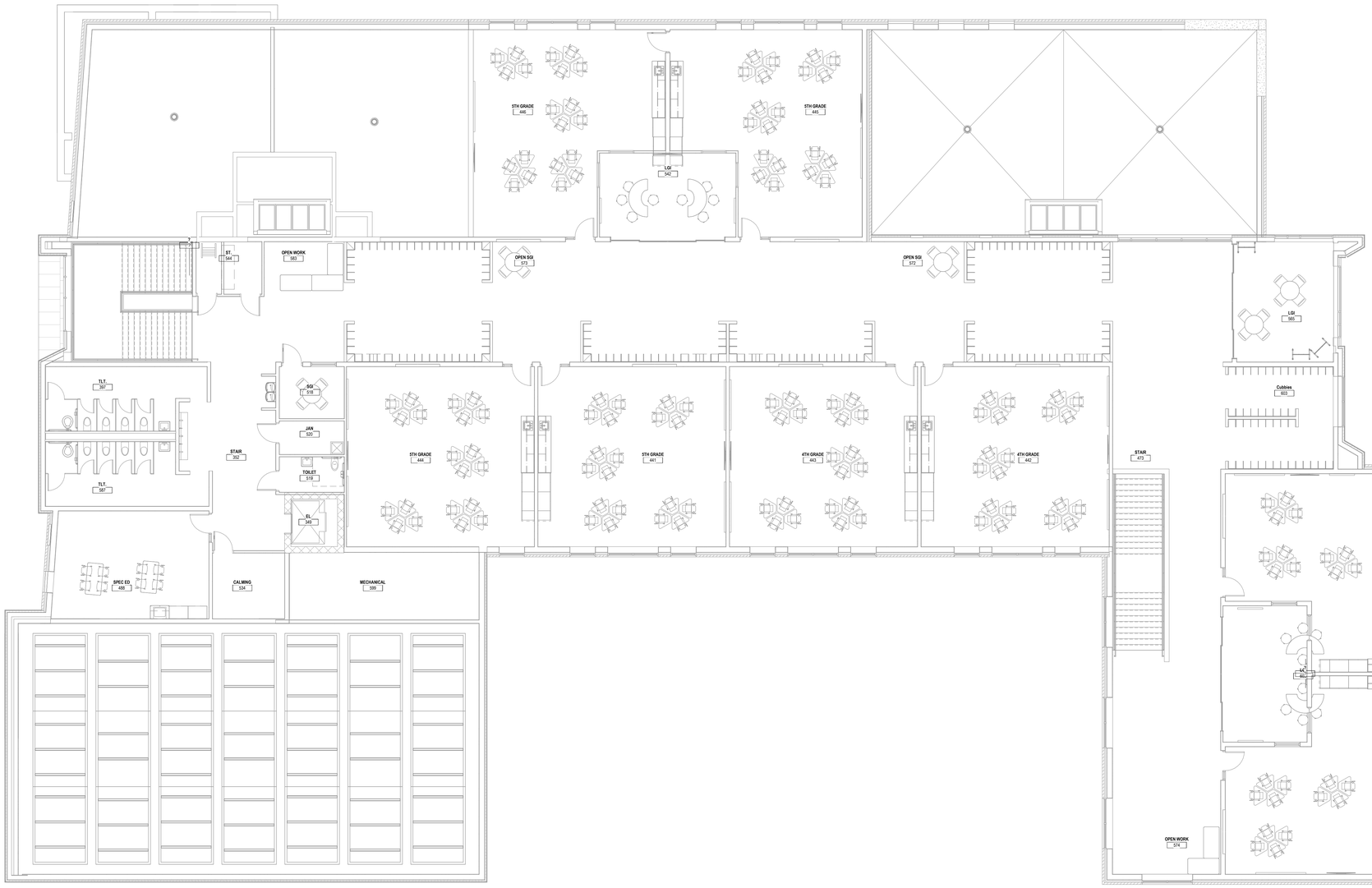
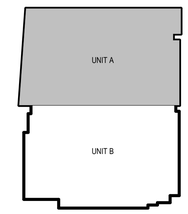
GENERAL NOTES

1. PROVIDE EXTERIOR RECEPTACLES PER DETAIL 7/E8.0.
2. ALL CONDUITS STUBBED OUT OF BUILDING SHALL BE DONE PER DETAIL 2/E8.0.
3. CONFIRM EXACT LOCATION OF ALL OUTLETS IN OFFICES AND IMC WITH OWNER PRIOR TO ROUGH-IN.
4. ALL RECEPTACLES FOR ELECTRIC WATER COOLERS (EWC) TO BE ROUGHED-IN BEHIND UNIT. CONFIRM EXACT LOCATION PRIOR TO ROUGH-IN. CONFIRM RECEPTACLE OR DIRECT CONNECTION.
5. ALL RECEPTACLES MOUNTED WITHIN 6 FEET OF SINKS SHALL BE GFI TYPE.
6. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.

PLAN NOTES (X)



4A / E1.3AP UNIT A - THIRD FLOOR - POWER
Scale: 1/8" = 1'-0"



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UNIT A - THIRD FLOOR PLAN - POWER

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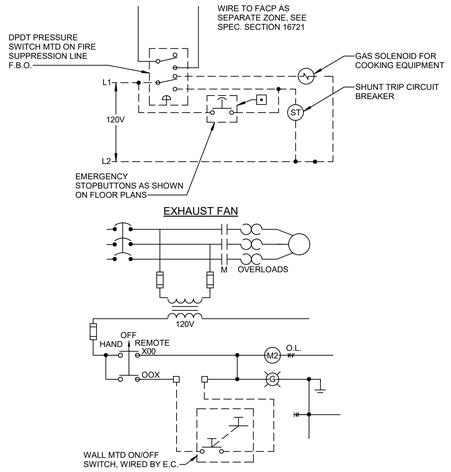


OPERATION

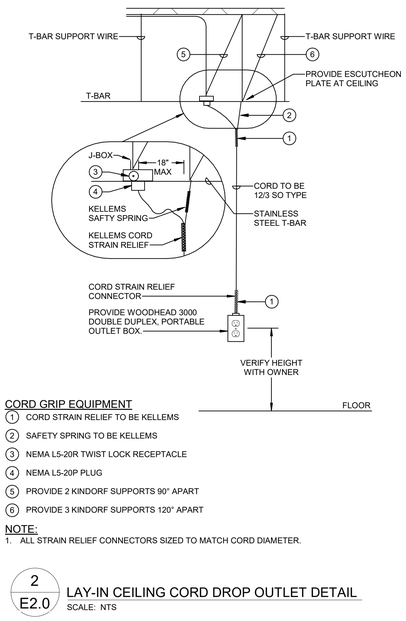
1. WHEN FIRE SUPPRESION ACTIVATES, PRESSURE SWITCH CHANGES POSITION. CIRCUIT BREAKERS TRIP AND GAS SOLENOID CLOSES. EXHAUST FAN CONTINUES TO OPERATE.

NOTES:

1. _____ = FIELD WIRING BY E.C.
2. SEE SPECIFICATIONS FOR SUPPLIER OF STARTERS.
3. EMERGENCY STOP BUTTON SHALL BE HEAVY DUTY OIL TYPE, FLUSH MOUNTED, RED MUSHROOM HEAD.

1 / E2.0 KITCHEN HOOD WIRING DIAGRAM

SCALE: NTS



CORD GRIP EQUIPMENT

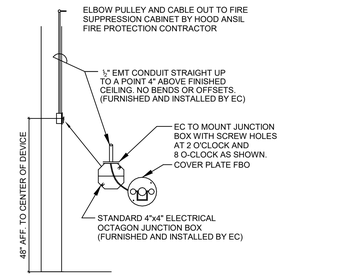
1. CORD STRAIN RELIEF TO BE KELLEMS
2. SAFETY SPRING TO BE KELLEMS
3. NEMA L5-20R TWIST LOCK RECEPTACLE
4. NEMA L5-20P PLUG
5. PROVIDE 2 KINDORF SUPPORTS 90° APART
6. PROVIDE 3 KINDORF SUPPORTS 120° APART

NOTE:

1. ALL STRAIN RELIEF CONNECTORS SIZED TO MATCH CORD DIAMETER.

2 / E2.0 LAY-IN CEILING CORD DROP OUTLET DETAIL

SCALE: NTS



MOUNT MANUAL PULL SWITCH MINIMUM 10'-0" FROM EXHAUST HOOD. MUST BE LOCATED IN PATH OF EGRESS. VERIFY LOCATION WITH LOCAL FIRE AUTHORITY.

3 / E2.0 ANSUL FIRE SUPPRESSION PULL SWITCH DETAIL

SCALE: NTS

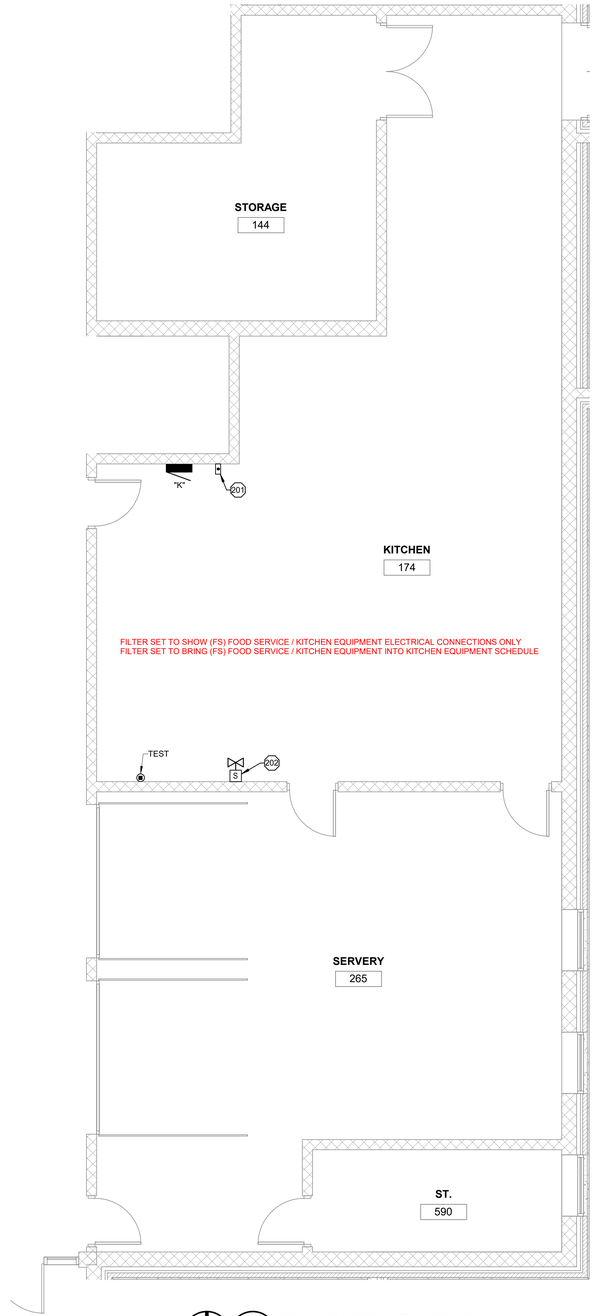
FOOD SERVICE EQIPMENT SCHEDULE (FROM FOOD SERVICE VENDOR)

FOOD SERVICE ELECTRICAL CONNECTION SCHEDULE

LOAD NAME	MCA	BREAKER	VOLTAGE	POLE	PANEL	WIRE CONDUIT	REMARKS
TEST (FS)	1.5 A	20 A	120 V	1	K	(2) #12, #12G IN 3/4"C	

GENERAL NOTES
1. PROVIDE TAMPER PROOF, GFI TYPE, 120 VOLT, 20 AMP RECEPTACLES.
2. REFER TO KITCHEN PLANS AS PRTT OF THIS BID PACHAGE FOR ADDITIONAL CONNECTION REQUIREMENTS AND LOCATIONS.

REMARKS NOTES
1. FIRE SUPPRESSION SYSTEM, SEE DETAIL 1/E2.0
2. PROVIDE SHUNT TRIP BREAKER AND WIRE THRU ANSUL FIRE SUPPRESSION SYSTEM AS SHOWN PER DETAIL 1/E2.0 .
3. PROVIDE DIRECT CONNECTION TO UNIT.
4. PROVIDE GFI BREAKER.



FILTER SET TO SHOW (FS) FOOD SERVICE / KITCHEN EQUIPMENT ELECTRICAL CONNECTIONS ONLY
FILTER SET TO BRING (FS) FOOD SERVICE / KITCHEN EQUIPMENT INTO KITCHEN EQUIPMENT SCHEDULE

1B / E2.0 ENLARGED KITCHEN PLAN

Scale: 1/4" = 1'-0"

GENERAL NOTES

1. REFER TO FOOD SERVICE EQUIPMENT SCHEDULE AND FOOD SERVICE ELECTRICAL CONNECTION SCHEDULE FOR FOOD SERVICE EQUIPMENT ELECTRICAL REQUIREMENTS. TYPICAL OF ALL NUMBERED FOOD SERVICE ROUGH-IN TAGS.
2. VERIFY ALL PLUG AND RECEPTACLE TYPES WITH KITCHEN SUPPLIER AND FOOD SERVICE CONTRACTOR PRIOR TO ROUGH-IN.
3. VERIFY EXACT MOUNTING HEIGHTS OF ALL RECEPTACLES AND EQUIPMENT CONNECTIONS WITH FOOD SERVICE DRAWINGS PRIOR TO ROUGH-IN.
4. SEE FOOD SERVICE KITCHEN EQUIPMENT DRAWINGS FOR ADDITIONAL ELECTRICAL INFORMATION AND REQUIREMENTS.
5. ALL CONNECTIONS TO DISPOSERS, BOOSTER HEATERS AND DISHWASHERS TO BE SEAL TIGHT WITH WATER TIGHT CONNECTIONS. E.C. TO PROVIDE 4X STAINLESS STEEL WASH DOWN RATED DISCONNECT SWITCHES.
6. ALL WIRING TO BE #12 UNLESS SHOWN OTHERWISE. ALL WIRING FOR KITCHEN EQUIPMENT TO BE COPPER.
7. ELECTRICAL CONTRACTOR IS TO SUPPLY AND INSTALL ALL CONDUIT, WIRING, CORDS, BOXES, SWITCHES, FACEPLATES, BRACKETS, ETC. TO COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL ALSO MAKE ALL FINAL CONNECTIONS TO FOOD SERVICE EQUIPMENT.
8. PROVIDE STAINLESS STEEL PLATES FOR WIRING DEVICES ON WALL UNDER EXHAUST HOOD.
9. SEE 1/8" SCALE FLOOR PLANS FOR ADDITIONAL ELECTRICAL EQUIPMENT IN KITCHEN SPACES.

PLAN NOTES (X)

201	E.C. TO PROVIDE BOX MOUNTED AT 48"AFF TO CENTER FOR ANSUL PULL STATION. COORDINATE INSTALLATION WITH FOOD SERVICE EQUIPMENT CONTRACTOR. SEE DETAIL . 3/E2.0
202	PROVIDE WIRING FROM EXHAUST HOOD FIRE SUPPRESSION SYSTEM TO GAS SOLENOID VALVE TO SHUT OFF GAS SUPPLY WHERE FIRE SUPPRESSION SYSTEM IS ACTIVATED, SEE DETAIL . 3/E2.0

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Project Number: **3752**

Issued For: **SD Set** **03/26/25**

Sheet Title: **ENLARGED KITCHEN PLAN & SCHEDULES**

Sheet Number: **E2.0**

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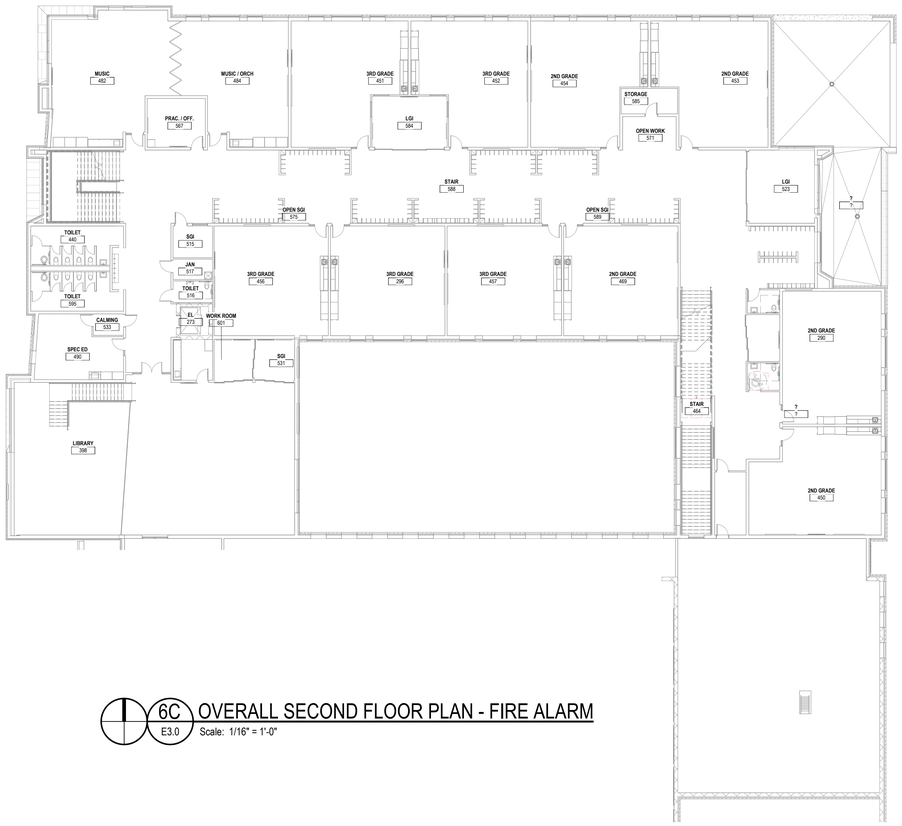
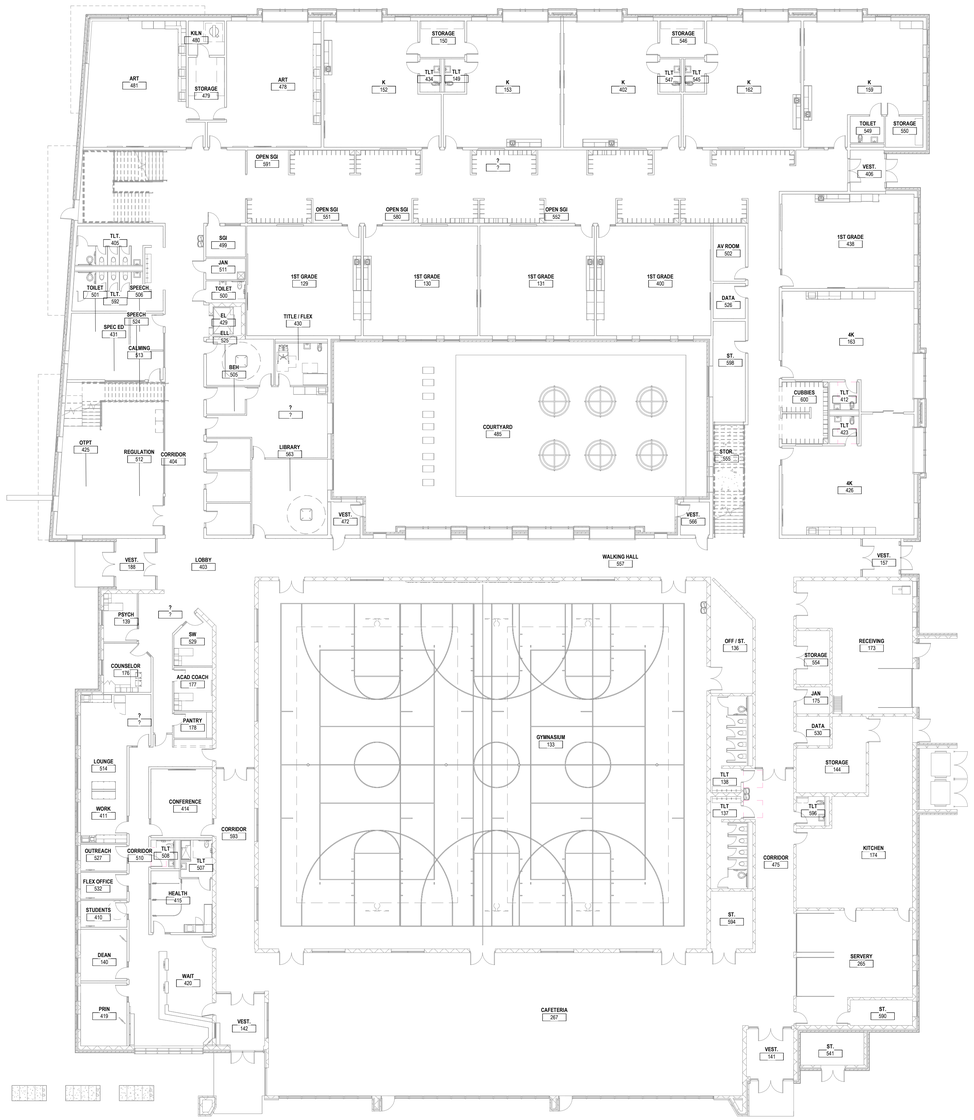
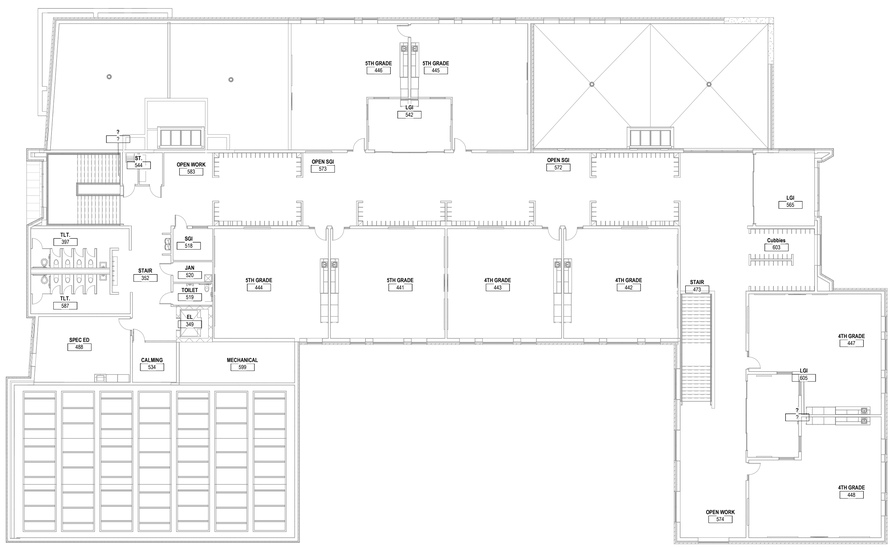


6C E3.0 OVERALL SECOND FLOOR PLAN - FIRE ALARM
Scale: 1/16" = 1'-0"



2B E3.0 OVERALL FIRST FLOOR PLAN - FIRE ALARM
Scale: 1/16" = 1'-0"

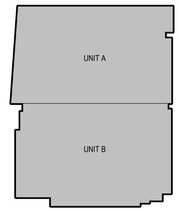


6A E3.0 OVERALL THIRD FLOOR PLAN - FIRE ALARM
Scale: 1/16" = 1'-0"

GENERAL NOTES

1. SEE POWER PLANS FOR FIRE ALARM CONTROL PANEL AND POWER SUPPLY CIRCUITS.
2. ALL DEVICES SHOWN THIS SHEET ARE APPROXIMATE LOCATIONS. VERIFY EXACT LOCATIONS ON SITE TO ACCOMMODATE FURNITURE, LIGHT FIXTURES, ETC. ENSURE STROBE COVERAGE REQUIRED BY NFPA 72 IS MAINTAINED IF STROBES ARE RELOCATED FOR COORDINATION.
3. ALL FIRE ALARM CABLING SHALL BE SUPPORTED SEPARATELY FROM OTHER LOW VOLTAGE CABLING ABOVE LAY-IN CEILINGS. FIRE ALARM WIRING IN AREAS WHERE THERE IS NO LAY-IN CEILINGS SHALL BE IN CONDUIT.
4. SEE DETAIL 1/E3.1 FOR INSTALLATION DETAILS.
5. LOCATE SMOKE DETECTOR MINIMUM 3'-0" FROM HVAC DIFFUSERS. ENSURE COVERAGE IS MAINTAINED IF SMOKES ARE RELOCATED FOR COORDINATION.
6. SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR FIRE ALARM HORN AND STROBE DEVICES.
7. ALL DEVICES IN MECHANICAL ROOMS SHALL BE LAID OUT ON-SITE AND DETERMINED BY THE MECHANICAL EQUIPMENT IN THE ROOM.
8. ALL FIRE ALARM PULL, JUNCTION BOXES, AND THEIR COVERS SHALL BE PAINTED RED AND HAVE "FIRE ALARM" WRITTEN ON THE COVER IN LARGE BLACK NON-WASHABLE INK. THE LETTERING SHALL BE SUCH THAT IT CAN BE READ FROM 10' AWAY. NOTE THAT THIS REQUIREMENT IS IN ADDITION TO THE NEC REQUIREMENTS WHICH REQUIRE THAT THE BOX ITSELF BE MARKED IN RED.

PLAN NOTES (X)



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Project Number: 3752

Issued For: SD Set 03/26/25

Sheet Title: FLOOR PLANS - FIRE ALARM

Sheet Number: E3.0

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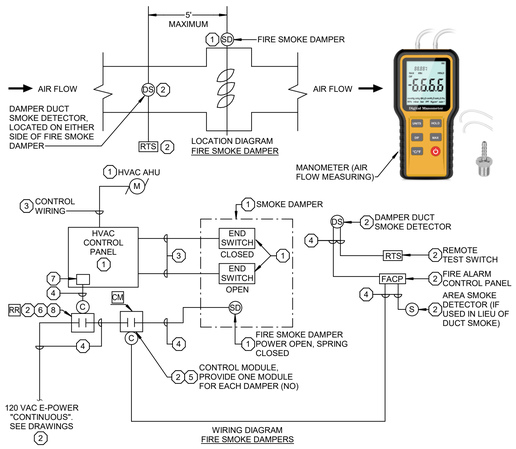


SYSTEM OPERATION

NORMAL OPERATION OF THE AHU:

1. WHEN THE HVAC SYSTEM IS CALLING FOR THE "AHU TO OPERATE. THE TEMPERATURE CONTROL PANEL SHALL PROVIDE A CONTACT "CLOSURE" SIGNAL TO FIRE SMOKE DAMPER(S) THROUGH THE RIB RELAY.
2. ONCE THE FIRE SMOKE DAMPER IS IN THE FULLY OPEN POSITION, THE END SWITCH OF THE SMOKE DAMPER WILL SEND A SIGNAL TO THE TEMPERATURE CONTROL PANEL STATING IT IS FULLY OPEN THUS ALLOWING THE AHU TO OPERATE.
3. WHEN THE AHU IS TURNED OFF THE TEMPERATURE CONTROL PANEL WILL TURN OFF THE "AHU WILL OPEN" THE CONTACT, OF THE RIB RELAY, ALLOWING THE FIRE SMOKE DAMPER TO CLOSE MANUALLY VIA SPRING RETURN.

DUCT SMOKE DETECTOR SENSES SMOKE:

1. UNDER NORMAL OPERATION WHERE THE DUCT SMOKE DETECTOR DOES NOT SENSE SMOKE THE FIRE ALARM CONTROL PANEL SHALL CLOSE THE NORMALLY "OPEN" CONTACT (FAIL SECURE) OF THE FIRE ALARM CONTROL MODULE ALLOWING THE AHU TO OPERATE NORMALLY AS STATED ABOVE. THE TEMPERATURE CONTROL PANEL WILL OPEN THE SMOKE DAMPER THROUGH THE RIB RELAY WHICH WILL FEED ALL OF THE CONTROL MODULES ASSOCIATED WITH THE AHU. NOTE THERE WILL BE ONE CONTROL MODULE FOR EACH FIRE SMOKE DAMPER. WHEN MULTIPLE CONTROL MODULES ARE USED CONNECT THE 120 VOLT CONTACTS IN PARALLEL BETWEEN THE RIB RELAY AND THE SMOKE FIRE DAMPER(S).
2. IF THE DUCT SMOKE DETECTOR SENSES SMOKE IT WILL THEN DE-ENERGIZE OR "OPEN" ALL OF THE CONTROL MODULES FOR THE SMOKE DAMPERS ASSOCIATED WITH THIS AHU. IF MULTIPLE CONTROL MODULES ARE SHOWN CONNECT THEM IN SERIES.

NOTES:

1. THE FIRE SMOKE DAMPER SHALL BE CLOSED ANY TIME THE AHU IS NOT IN OPERATION.
2. *THE ABOVE REFERENCES "AHU" REFERENCES DIFFERENT PIECES OF HVAC EQUIPMENT. SEE DRAWINGS FOR ACTUAL HVAC DEVICE NAME TAG.

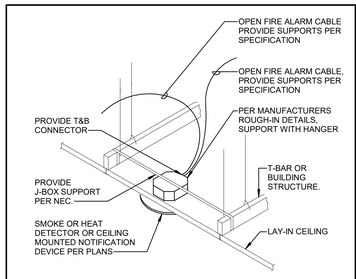
PLAN NOTE: (X)

1. EQUIPMENT PROVIDED AND INSTALLED BY HVAC CONTRACTOR.
2. EQUIPMENT PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
3. WIRING PROVIDED AND INSTALLED BY HVAC CONTRACTOR.
4. WIRING PROVIDED AND INSTALLED BY ELECTRICAL CONTRACTOR.
5. SEE FLOOR PLANS FOR QUANTITY.
6. EC TO PROVIDE RIB RELAY. VERIFY COIL VOLTAGE 24 VOLT OR 120 VAC WITH HVAC CONTRACTOR.
7. CONNECTION IN HVAC CONTROL PANEL BY HVAC CONTRACTOR. EC TO COORDINATE WITH HVAC CONTRACTOR.
8. MOUNT RIB RELAY IN A NEMA 1 ENCLOSURE, LABEL WHICH DAMPER(S) THIS RELAY CONTROLS. LOCATE ENCLOSURE IN ACCESSIBLE LOCATION SUCH AS ADJACENT FROM HVAC CONTROL PANEL, DUCT DETECTOR REMOTE TEST, OR 120V PANEL FEEDING SMOKE DAMPERS.

GENERAL NOTES:

1. MOUNT REMOTE TEST STATION ON NEAREST WALL THAT PROVIDES ACCESS. IN INSTALLATIONS WHERE TWO OR MORE FIRE SMOKE DAMPERS ARE INSTALLED TOGETHER, MOUNT ALL TEST SWITCHES IN ONE AREA.
2. PROVIDE WIRING PER MANUFACTURE SPECIFICATIONS.
3. AT EACH RETURN AIR DUCT SMOKE DETECTOR AND/OR DETECTOR SERVING A SMOKE DAMPER, MEASURE AND RECORD THE PRESSURE DIFFERENTIAL AT EACH DEVICE TO VERIFY COMPLIANCE WITH THE UNIT MANUFACTURER REQUIREMENTS FOR PROPER AIRFLOW. ALL PRESSURE DIFFERENTIAL READINGS SHALL BE COMPILED IN ONE TABLE AND SUBMITTED WITH THE O&M MANUAL AT THE END OR THE PROJECT. PROVIDE THESE READINGS TO THE LOCAL AHJ AND/OR FIRE INSPECTOR UPON REQUEST PRIOR TO THE SUBMITTAL OF THE O&M MANUAL.

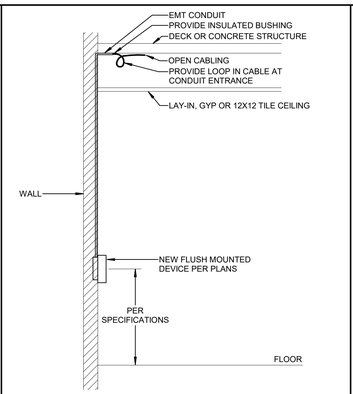
2 / E3.1 FIRE ALARM DUCT DETECTOR INSTALLATION FOR FIRE SMOKE DAMPER POWER OPEN SPRING CLOSED
SCALE: NTS



GENERAL NOTE:

1. BOX TO BE ACCESSIBLE VIA CEILING TILE, AND HAVE FRONT COVER WITH PAINTED RED "FA".

DETAIL ILLUSTRATING NEW FLUSH MOUNTED CEILING DEVICE, IN LAY-IN CEILING
NTS



DETAIL ILLUSTRATING NEW FLUSH MOUNTED WALL DEVICE
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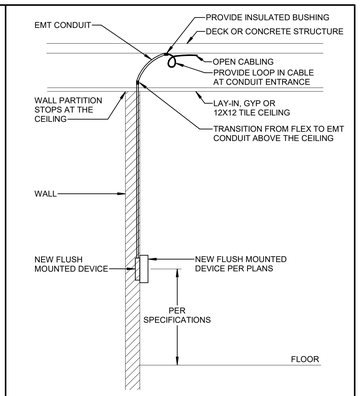
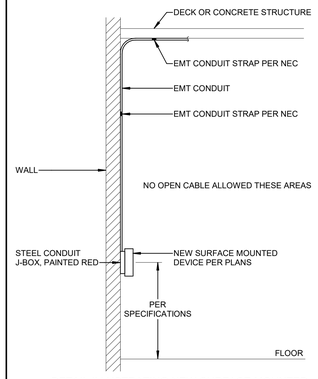
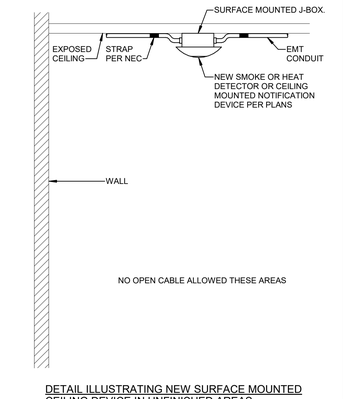


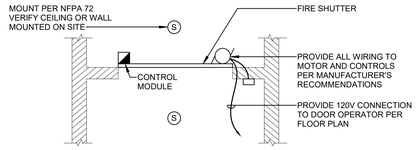
DETAIL ILLUSTRATING NEW WALL MOUNTED DEVICE IN EXISTING PARTITION WALLS
NTS



DETAIL ILLUSTRATING NEW SURFACE MOUNTED WALL DEVICE IN MECHANICAL SPACES
NTS



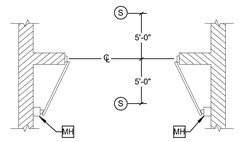
DETAIL ILLUSTRATING NEW SURFACE MOUNTED CEILING DEVICE IN UNFINISHED AREAS
NTS



NOTES:

1. PROVIDE ALL FLUSH MOUNTED OUTLET BOXES WHERE WALL IS NEW OF WALL IS HOLLOW AND CAN BE FISHED.
2. IF EXISTING WALL CAN NOT BE FISHED, PROVIDE SURFACE METAL RACEWAY FOR CABLING. PROVIDE FIRE ALARM INTERFACE IN DOOR CONTROLLER ABOVE.
3. PROGRAM FIRE ALARM SYSTEM SUCH THAT DOOR CLOSES ONLY WHEN LOCAL SMOKE DETECTORS ARE ACTIVATED.

4 / E3.1 FIRE SHUTTER INSTALLATION DETAIL
SCALE: NTS

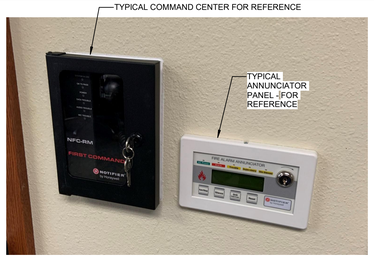


NOTES:

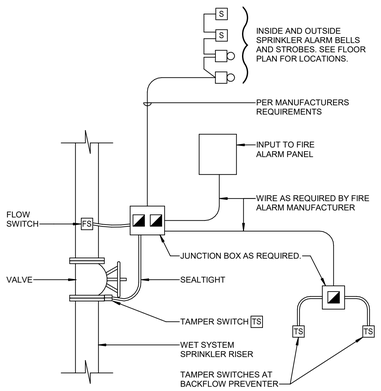
1. DOUBLE DOOR SHOWN, SINGLE DOORS SIMILAR, EXCEPT ONLY ONE MAGNETIC DOOR HOLDER.
2. PROVIDE ALL FLUSH MOUNTED OUTLET BOXES WHERE WALL IS NEW OR WALL IS HOLLOW AND CAN BE FISHED.
3. CONNECT TO FIRE ALARM SYSTEM.
4. IF EXISTING WALL CAN NOT BE FISHED, PROVIDE SURFACE METAL RACEWAY FOR CABLING.

3 / E3.1 MAGNETIC DOOR HOLD DETAIL - ADDRESSABLE FACP
SCALE: NTS

1 / E3.1 FIRE ALARM DEVICE INSTALLATION DETAILS (NEW FACILITIES)
SCALE: NTS



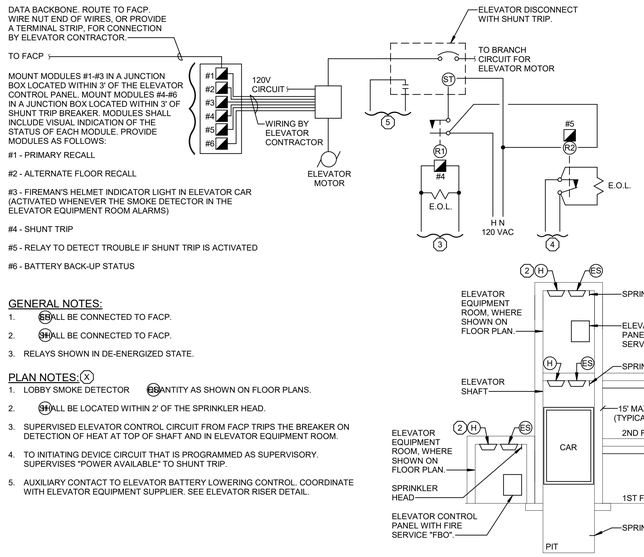
7 / E3.1 TYPICAL COMMAND CENTER AND ANNUNCIATOR PANEL
SCALE: NTS



NOTES:

1. SEE FLOOR PLANS FOR ACTUAL NUMBER OF FLOW SWITCHES AND TAMPER SWITCHES. PROVIDE QUANTITY OF MODULES AS REQUIRED.
2. MOUNT MODULES WITH-IN 3'-0".

6 / E3.1 SPRINKLER VALVE DIAGRAM
SCALE: NTS



GENERAL NOTES:

1. (SS) SHALL BE CONNECTED TO FACP.
2. (SH) SHALL BE CONNECTED TO FACP.
3. RELAYS SHOWN IN DE-ENERGIZED STATE.

PLAN NOTES: (X)

1. LOBBY SMOKE DETECTOR (SS) QUANTITY AS SHOWN ON FLOOR PLANS.
2. (SH) SHALL BE LOCATED WITHIN 2' OF THE SPRINKLER HEAD.
3. SUPERVISED ELEVATOR CONTROL CIRCUIT FROM FACP TRIPS THE BREAKER ON DETECTION OF HEAT AT TOP OF SHAFT AND IN ELEVATOR EQUIPMENT ROOM.
4. TO INITIATING DEVICE CIRCUIT THAT IS PROGRAMMED AS SUPERVISORY. SUPERVISES "POWER AVAILABLE" TO SHUNT TRIP.
5. AUXILIARY CONTACT TO ELEVATOR BATTERY LOWERING CONTROL. COORDINATE WITH ELEVATOR EQUIPMENT SUPPLIER. SEE ELEVATOR RISER DETAIL.

5 / E3.1 ELEVATOR SMOKE/HEAT DETECTOR DETAIL
SCALE: NTS

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Sheet Title: **FIRE ALARM DETAILS**

Sheet Number: **E3.1**

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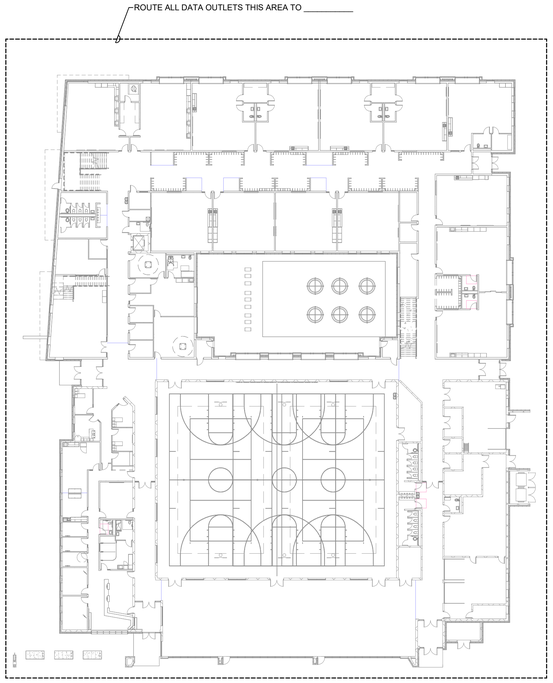
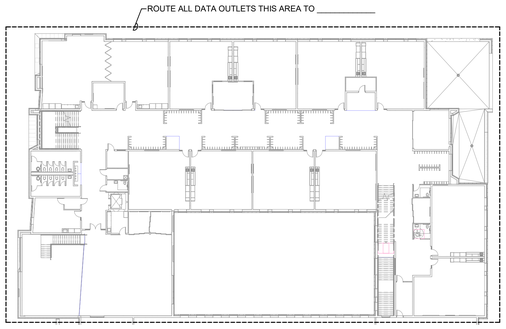
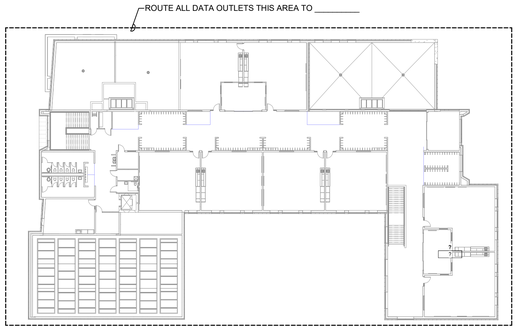


FIRST FLOOR PLAN



SECOND FLOOR PLAN

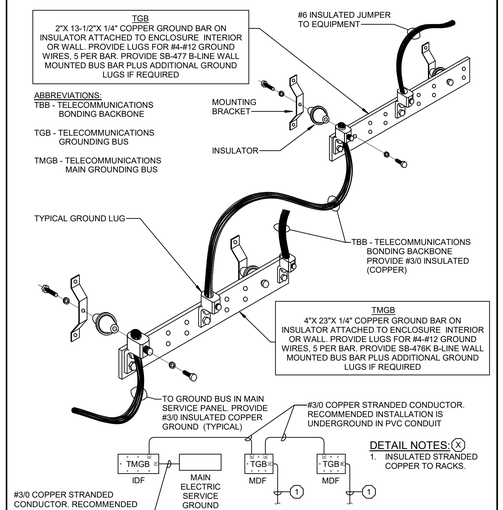


THIRD FLOOR PLAN

GENERAL NOTES

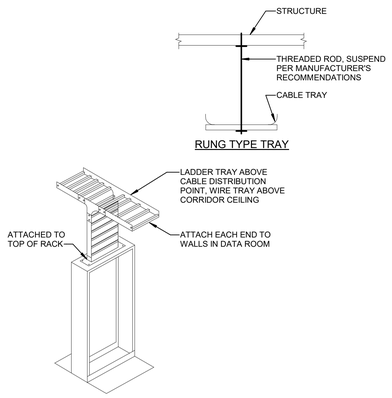
1. FOR DATA ROUTING SEE LOCAL AREA NETWORK RISER DETAIL 1/E4.1.

1 E4.0 TELECOMMUNICATIONS ROUTING DETAIL
SCALE: NTS



GROUNDING RISER
NTS

6 E4.0 TELECOMMUNICATIONS SYSTEM GROUNDING DETAIL WITH DATA GROUNDING RISER
SCALE: NTS



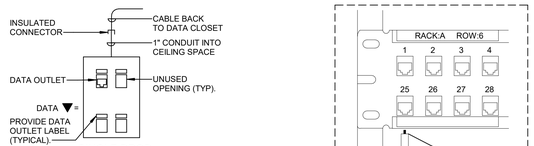
RUNG TYPE TRAY

TYPICAL OPEN RACK DETAIL

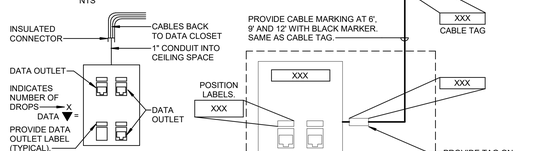
NOTES:

1. COORDINATE WITH DUCT WORK AND OTHER OBSTRUCTIONS ABOVE CEILING.
2. INSTALL SO TRAY CAN BE ACCESSED FROM CEILING BELOW.
3. PROVIDE MULTIPLE RUNS WHERE REQUIRED TO ACHIEVE 50% SPARE CAPACITY AND WHERE INDICATED ON DRAWING.

5 E4.0 CABLE TRAY DETAIL
SCALE: NTS



SINGLE DROP
NTS



MULTIPLE DROP
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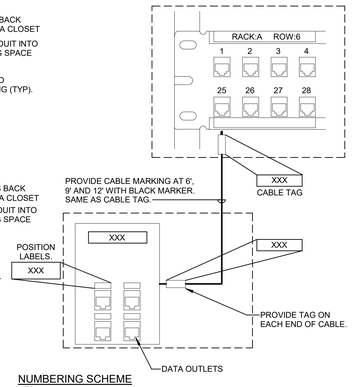
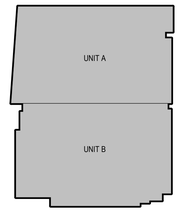


NUMBERING SCHEME
NTS

NOTES:

1. ALL BOXES TO BE 4" SQUARE DEEP WITH 1 OR 2-GANG RING.
2. PROVIDE DATA OUTLETS IN QUANTITY SHOWN ON DRAWINGS.
3. PROVIDE MINIMUM 4 UNIT PLATE. CLOSE ALL UNUSED OPENINGS.
4. PROVIDE OUTLET LABELING AS DIRECTED BY OWNER.
5. IF SHOWN NEXT TO ABOVE COUNTER RECEPTACLE, ASSUME DEVICE MOUNTED ABOVE COUNTER.
6. SEE FLOOR PLANS FOR OTHER DEVICES THAT MAY BE MOUNTED IN CONJUNCTION WITH DATA OUTLETS.

4 E4.0 TYPICAL TELECOMMUNICATIONS OUTLET CONFIGURATIONS
SCALE: NTS



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Issued For:
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Sheet Title:
DATA ROUTING PLANS AND DETAILS

Sheet Number:
E4.0

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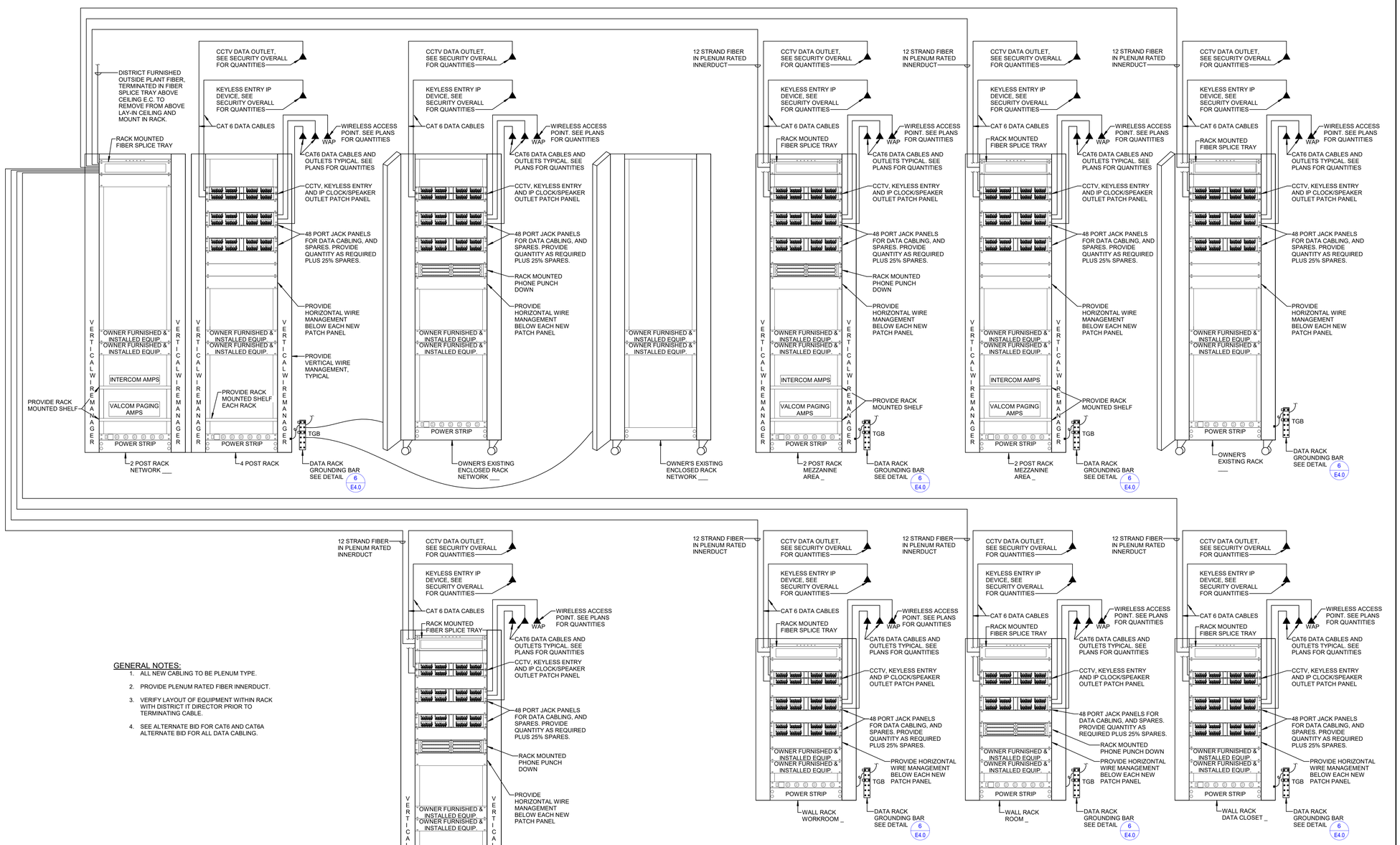

GENERAL NOTES:

1. ALL NEW CABLING TO BE PLENUM TYPE.
2. PROVIDE PLENUM RATED FIBER INNERDUCT.
3. VERIFY LAYOUT OF EQUIPMENT WITHIN RACK WITH DISTRICT IT DIRECTOR PRIOR TO TERMINATING CABLE.
4. SEE ALTERNATE BID FOR CAT6 AND CAT6A ALTERNATE BID FOR ALL DATA CABLING.

1 / E4.1 LOCAL AREA NETWORK RISER
SCALE: NTS

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Issued For: SD Set 03/26/25

Sheet Title: LOCAL AREA NETWORK RISER

Sheet Number: E4.1

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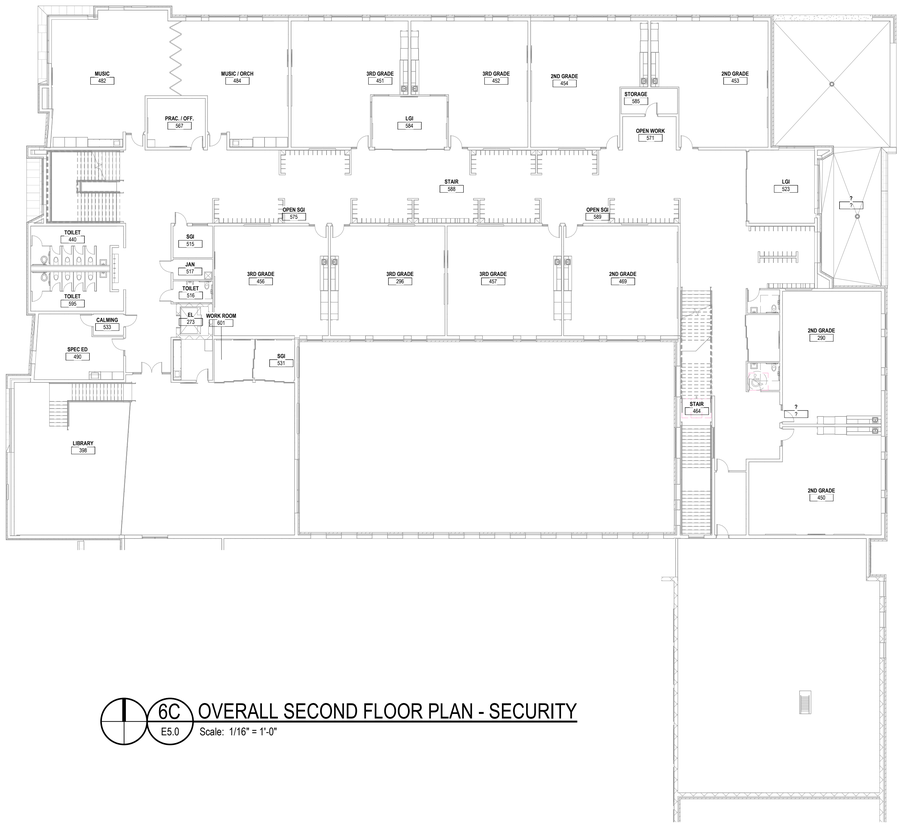
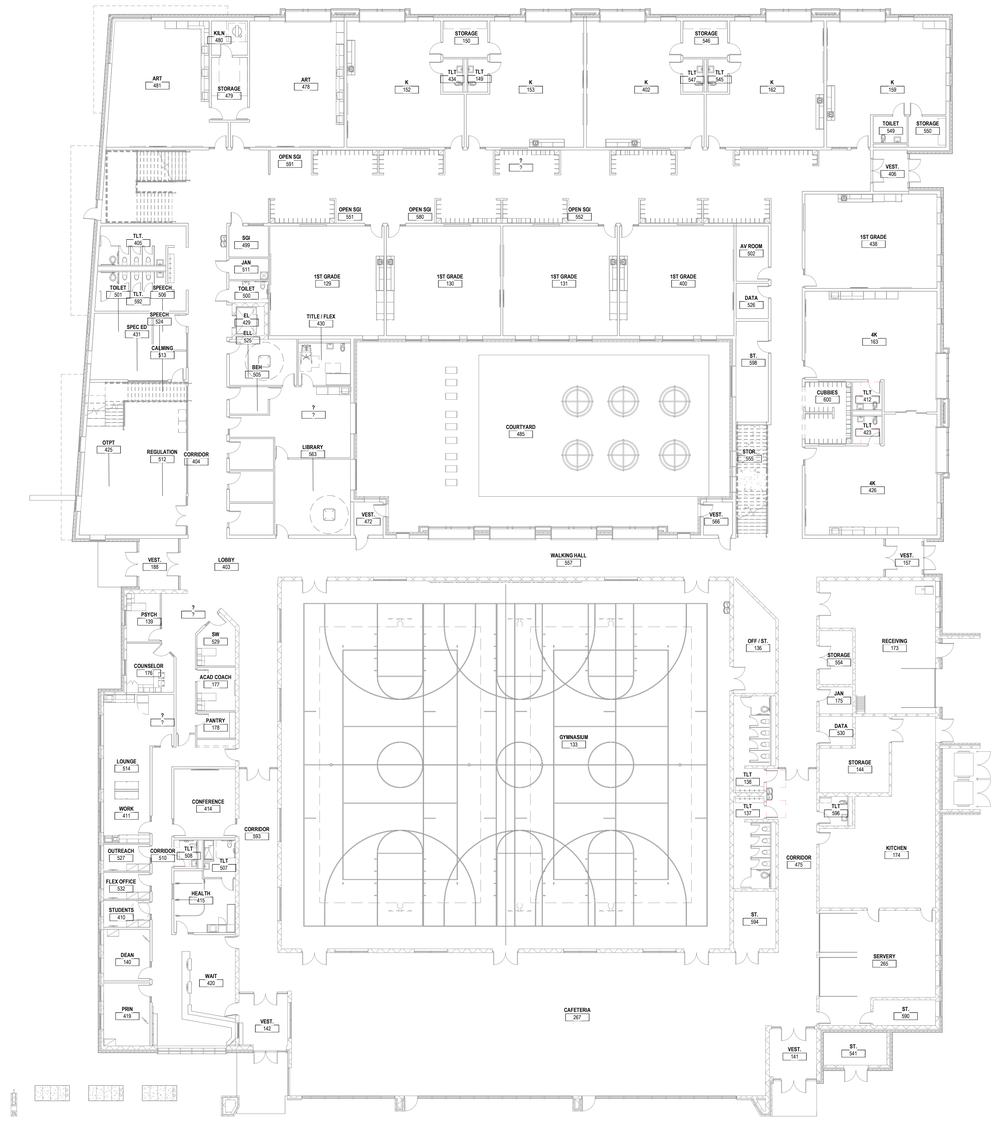
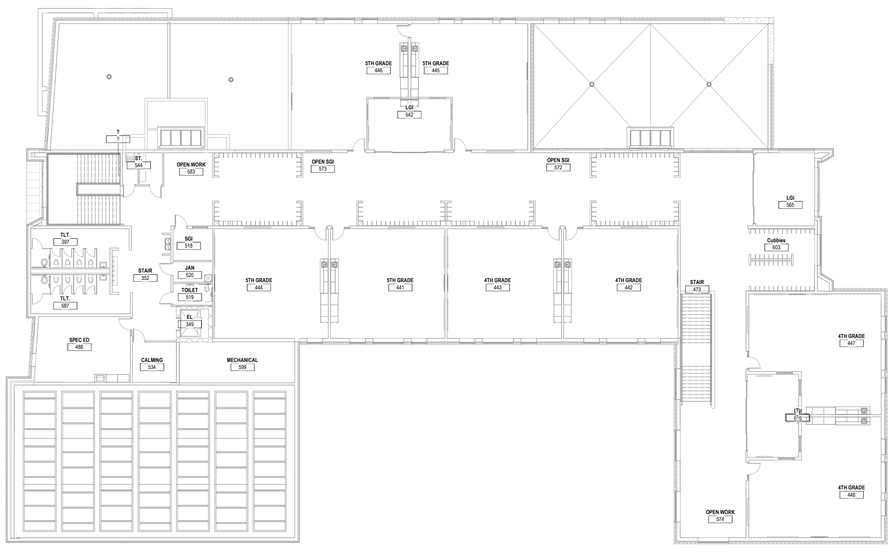


6C E5.0 OVERALL SECOND FLOOR PLAN - SECURITY
Scale: 1/16" = 1'-0"



2B E5.0 OVERALL FIRST FLOOR PLAN - SECURITY
Scale: 1/16" = 1'-0"

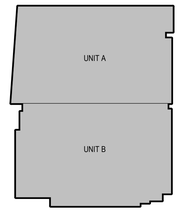


6A E5.0 OVERALL THIRD FLOOR PLAN - SECURITY
Scale: 1/16" = 1'-0"

GENERAL NOTES

1. ALL CONDUIT AND CABLE FOR EXTERIOR CAMERAS SHALL BE INSTALL PER DETAIL 1/E5.1.
2. SEE POWER PLANS FOR DOOR CONTROLLER AND POWER SUPPLY CIRCUITS. ANY ADDITIONAL 120V POWER REQUIRED FOR KEYLESS ENTRY SYSTEM OR VIDEO SURVEILLANCE SYSTEM SHALL BE PROVIDED FROM PANEL "___", "___", "___", OR "___". PROVIDE ADDITIONAL 20A/1P BREAKERS.
3. SEE OVERALL DATA ROUTING PLAN FOR ROUTING OF CABLING.
4. ALL LOW VOLTAGE CABLING IN AREAS WITH EXPOSED STRUCTURE SHALL BE IN CONDUIT.
5. VERIFY ALL LOCATIONS AND MOUNTING HEIGHTS WITH OWNER'S SECURITY CAMERA VENDOR PRIOR TO ROUGH-IN AND INSTALLATION OF CABLING.

PLAN NOTES (X)



PLAN NORTH
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Sheet Title: FLOOR PLANS - SECURITY

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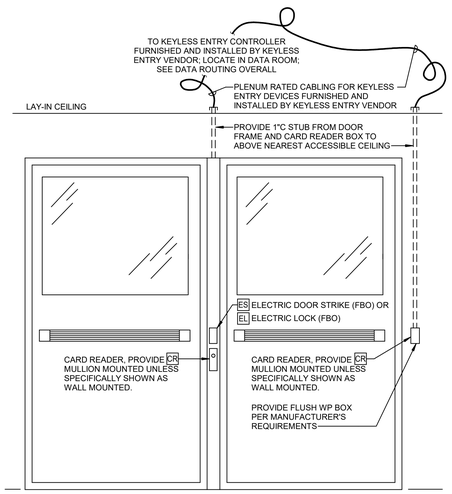
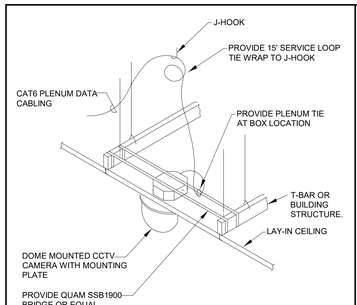


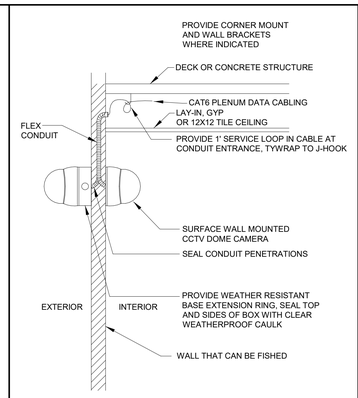
GENERAL NOTES:

1. ALL WIRING AND CONDUIT MUST BE CONCEALED TO DOOR FRAME.
2. COORDINATE SPECIFIC ROUGH-IN REQUIREMENTS WITH KEYLESS ENTRY VENDOR.

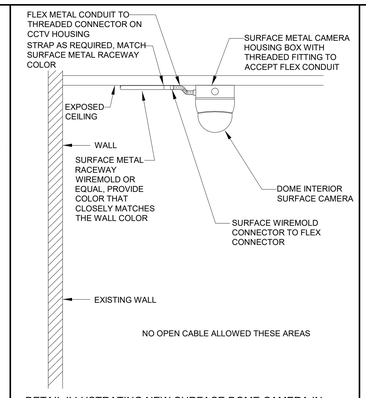
2 / E5.1 DOOR STRIKE, CARD READER, & DOOR CONTACT INSTALLATION DETAIL
SCALE: NTS



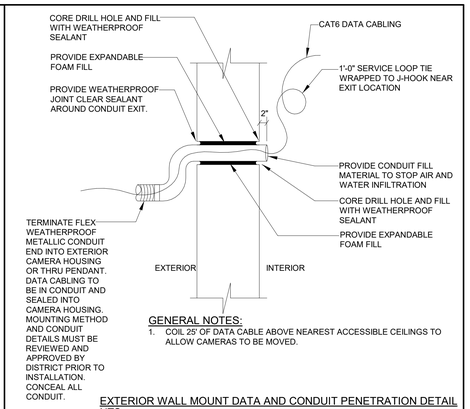
DETAIL ILLUSTRATING NEW DOME LAY-IN CEILING CAMERA
NTS



DETAIL ILLUSTRATING NEW FLUSH MOUNTED WALL CAMERA WITHOUT ARM IN NEW FACILITIES
NTS



DETAIL ILLUSTRATING NEW SURFACE DOME CAMERA IN FINISHED AREAS WITHOUT ACCESSIBLE CEILINGS
NTS



GENERAL NOTES:

1. COIL 25' OF DATA CABLE ABOVE NEAREST ACCESSIBLE CEILINGS TO ALLOW CAMERAS TO BE MOVED.

EXTERIOR WALL MOUNT DATA AND CONDUIT PENETRATION DETAIL
NTS

DETAIL ILLUSTRATING NEW SURFACE MOUNTED DOME CAMERA IN UNFINISHED AREAS
NTS

DETAIL ILLUSTRATING NEW SURFACE MOUNTED DOME CAMERA IN UNFINISHED AREAS
NTS

TYPICAL CABLE SUPPORT DETAIL
NTS

GENERAL NOTES:

1. J HOOK SHALL BE SIZED FOR CABLE SIZE AND LOAD.
2. SPACING BETWEEN J HOOKS 4 FEET ON CENTER.
3. INSTALL ADDITIONAL J HOOKS AS REQUIRED TO ACCOMMODATE NEW CABLING.

DETAIL NOTES: (X)

1. THIS HOOK IS DEDICATED FOR DATA CABLING.
2. FLEX CONDUIT IN WALL.
3. WALL SLEEVE.
4. FLOOR OR ROOF STRUCTURE ABOVE.
5. HANGER SUPPORTED FROM STRUCTURE OF FLOOR ABOVE OR WALL.
6. LAY-IN CEILING.
7. J HOOK, TYPICAL.

1 / E5.1 SECURITY ROUGH-IN DETAILS
SCALE: NTS

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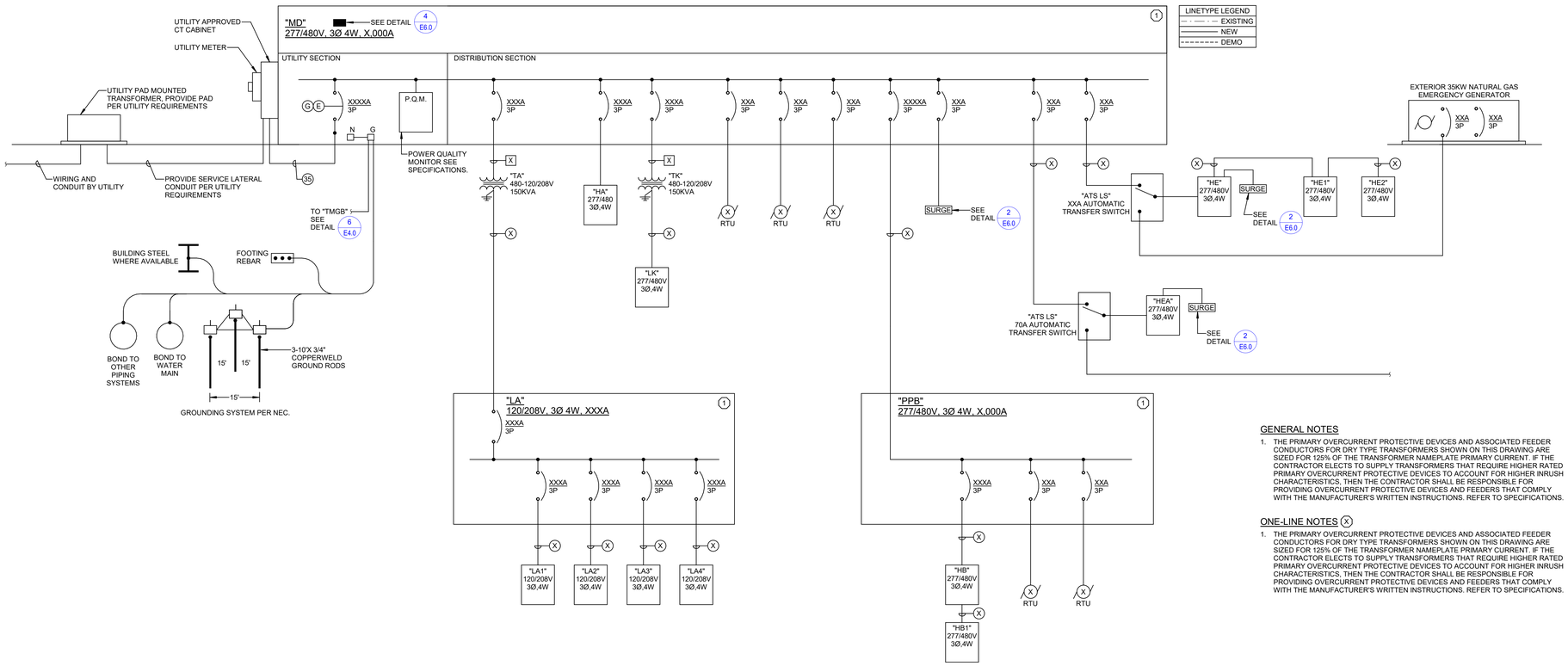


EDIT PER PROJECT REQUIREMENTS

ONE-LINE DIAGRAM

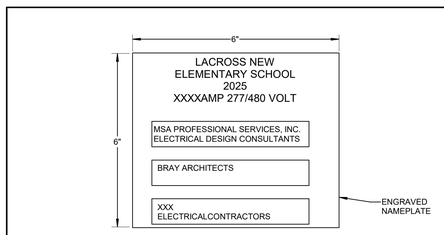
NTS

GENERAL NOTES

1. THE PRIMARY OVERCURRENT PROTECTIVE DEVICES AND ASSOCIATED FEEDER CONDUCTORS FOR DRY TYPE TRANSFORMERS SHOWN ON THIS DRAWING ARE SIZED FOR 125% OF THE TRANSFORMER NAMEPLATE PRIMARY CURRENT. IF THE CONTRACTOR ELECTS TO SUPPLY TRANSFORMERS THAT REQUIRE HIGHER RATED PRIMARY OVERCURRENT PROTECTIVE DEVICES TO ACCOUNT FOR HIGHER INRUSH CHARACTERISTICS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING OVERCURRENT PROTECTIVE DEVICES AND FEEDERS THAT COMPLY WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATIONS.

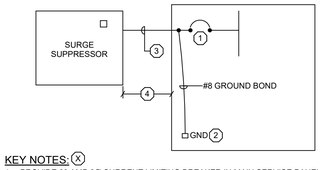
ONE-LINE NOTES (X)

1. THE PRIMARY OVERCURRENT PROTECTIVE DEVICES AND ASSOCIATED FEEDER CONDUCTORS FOR DRY TYPE TRANSFORMERS SHOWN ON THIS DRAWING ARE SIZED FOR 125% OF THE TRANSFORMER NAMEPLATE PRIMARY CURRENT. IF THE CONTRACTOR ELECTS TO SUPPLY TRANSFORMERS THAT REQUIRE HIGHER RATED PRIMARY OVERCURRENT PROTECTIVE DEVICES TO ACCOUNT FOR HIGHER INRUSH CHARACTERISTICS, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING OVERCURRENT PROTECTIVE DEVICES AND FEEDERS THAT COMPLY WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS. REFER TO SPECIFICATIONS.



NOTES:
1. INSTALL ON MAIN SERVICE PANEL.

4 / E6.0 NAMEPLATE DETAIL
SCALE: NTS



KEY NOTES: (X)
1. PROVIDE 60 AMP 3Ø CURRENT LIMITING BREAKER IN MAIN SERVICE PANEL. PROVIDE 30 AMP 3Ø CURRENT LIMITING BREAKER IN MAIN SERVICE PANEL.
2. MAIN SERVICE PANEL OR DISTRIBUTION PANEL, SEE DRAWINGS.
3. 4#6 & #6 GND. IN 1 1/4" CONDUIT FOR 60 AMP MAIN SERVICE SUPPRESSION 4#10 & #8 GND. IN 1" CONDUIT FOR 30 AMP BUILDING INTERIOR PANEL SURGE SUPPRESSION.
4. CONDUIT AND FEEDER DISTANCE NOT TO EXCEED 5 FEET.

2 / E6.0 SURGE SUPPRESSION CONNECTION
SCALE: NTS

FEEDER SCHEDULE

IDENTIFIER	AMPACITY	1Ø TWO-WIRE CIRCUIT		1Ø OR 3Ø THREE-WIRE CIRCUIT		3Ø FOUR-WIRE CIRCUIT		EQUIPMENT GROUNDING CONDUCTOR
		CONDUIT	CIRCUIT CONDUCTORS	CONDUIT	CIRCUIT CONDUCTORS	CONDUIT	CIRCUIT CONDUCTORS	
COPPER CONDUCTORS								
1	10	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
2	15	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
3	20	3/4"	(2) #12	3/4"	(3) #12	3/4"	(4) #12	#12
4	25	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10
5	30	3/4"	(2) #10	3/4"	(3) #10	3/4"	(4) #10	#10
6	35	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
7	40	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
8	45	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
9	50	3/4"	(2) #8	3/4"	(3) #8	3/4"	(4) #8	#10
10	60	3/4"	(2) #6	3/4"	(3) #6	1"	(4) #6	#10
11	70	1"	(2) #4	1"	(3) #4	1-1/4"	(4) #4	#8
12	80	1"	(2) #4	1"	(3) #4	1-1/4"	(4) #4	#8
13	90	1"	(2) #3	1"	(3) #3	1-1/4"	(4) #3	#8
14	100	1-1/4"	(2) #3	1-1/4"	(3) #3	1-1/4"	(4) #3	#8
ALUMINUM CONDUCTORS								
15	110	1-1/4"	(2) #1/0	1"	(3) #1/0	2"	(4) #1/0	#4
16	125	1-1/2"	(2) #2/0	2"	(3) #2/0	2"	(4) #2/0	#4
17	150	1-1/2"	(2) #3/0	2"	(3) #3/0	2"	(4) #3/0	#4
18	175	N/A	N/A	2"	(3) #4/0	2-1/2"	(4) #4/0	#4
19	200	N/A	N/A	2-1/2"	(3) 250KCMIL	2-1/2"	(4) 250KCMIL	#4
20	225	N/A	N/A	2-1/2"	(3) 300KCMIL	2-1/2"	(4) 300KCMIL	#2
21	250	N/A	N/A	2-1/2"	(3) 350KCMIL	3"	(4) 350KCMIL	#2
22	300	N/A	N/A	3"	(3) 500 KCMIL	3"	(4) 500KCMIL	#2
23	350	N/A	N/A	(2) 2"	2 SETS OF (3) #4/0	(2) 2-1/2"	2 SETS OF (4) #4/0	#1
24	400	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 250KCMIL	(2) 2-1/2"	2 SETS OF (4) 250KCMIL	#1
25	450	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 300KCMIL	(2) 2-1/2"	2 SETS OF (4) 300KCMIL	#1/0
26	500	N/A	N/A	(2) 2-1/2"	2 SETS OF (3) 350KCMIL	(2) 3"	2 SETS OF (4) 350KCMIL	#1/0
27	600	N/A	N/A	(2) 3"	2 SETS OF (3) 500KCMIL	(2) 3 1/2"	2 SETS OF (4) 500KCMIL	#2/0
28	700	N/A	N/A	(3) 2-1/2"	3 SETS OF (3) 350KCMIL	(3) 3"	3 SETS OF (4) 350KCMIL	#3/0
29	800	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 250KCMIL	(4) 2-1/2"	4 SETS OF (4) 250KCMIL	#3/0
30	900	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 300KCMIL	(4) 2-1/2"	4 SETS OF (4) 300KCMIL	#4/0
31	1000	N/A	N/A	(4) 2-1/2"	4 SETS OF (3) 350KCMIL	(4) 3"	4 SETS OF (4) 350KCMIL	#4/0
32	1200	N/A	N/A	(4) 3"	4 SETS OF (3) 500KCMIL	(4) 3-1/2"	4 SETS OF (4) 500KCMIL	250KCMIL
33	1600	N/A	N/A	(6) 2-1/2"	6 SETS OF (3) 400KCMIL	(6) 3"	6 SETS OF (4) 400KCMIL	350KCMIL
34	1800	N/A	N/A	(6) 3"	6 SETS OF (3) 500KCMIL	(6) 3-1/2"	6 SETS OF (4) 500KCMIL	400KCMIL
35	2000	N/A	N/A	(6) 3"	6 SETS OF (3) 600KCMIL	(6) 3-1/2"	6 SETS OF (4) 600KCMIL	400KCMIL
36	2500	N/A	N/A	(8) 3"	8 SETS OF (3) 600KCMIL	(8) 3-1/2"	8 SETS OF (4) 600KCMIL	600KCMIL
37	3000	N/A	N/A	(10) 3-1/2"	10 SETS OF (3) 500KCMIL	(10) 3-1/2"	10 SETS OF (4) 500KCMIL	600KCMIL
38	4000	N/A	N/A	(12) 3-1/2"	12 SETS OF (3) 600KCMIL	(12) 4"	12 SETS OF (4) 600KCMIL	800KCMIL

PLAN NOTATION:
- ◇ SINGLE-PHASE, TWO-WIRE FEEDER, NUMBER IS THE FEEDER IDENTIFIER
- □ SINGLE OR THREE-PHASE, THREE-WIRE FEEDER, NUMBER IS THE FEEDER IDENTIFIER
- ○ THREE-PHASE, FOUR-WIRE FEEDER, NUMBER IS THE FEEDER IDENTIFIER

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Sheet Title: ONE LINE DIAGRAM

Sheet Number: E6.0

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Sheet Title:
PANEL SCHEDULES

Sheet Number:
E6.1

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ELECTRICAL MOTOR STARTER SCHEDULE (Option 1)

LOAD NAME	FLA	BREAKER	VOLTAGE	POLES	PANEL	WIRE (CU)	NOTES

GENERAL NOTES
1. SEE HVAC PLANS FOR STARTER REQUIREMENTS.
2. SEE HVAC PLANS FOR LOCATIONS OF ALL HVAC EQUIPMENT.
3. PROVIDE ALL DISCONNECTS REQUIRED BY CODE.
4. ALL CONDUCTORS SHALL BE COPPER.

REMARKS NOTES
1. HVAC CONTRACTOR TO SUPPLY VFD FOR THIS UNIT. E.C. TO INSTALL.
2. PROVIDE WP/GFI DUPLEX RECEPTACLE ON ROOF WITHIN 20' OF EQUIPMENT PER NEC. CONNECT TO NORMAL POWER CIRCUIT FEEDING NEAREST RECEPTACLES.
3. MULTIPLE HVAC MOTORS ON THIS CIRCUIT.
4. INTERCONNECT RAC AND OU OF SAME NUMBER AS REQUIRED BY MANUFACTURER.

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Sheet Title:
FIXTURE & ELECTRICAL MOTOR STARTER SCHEDULE

Sheet Number:
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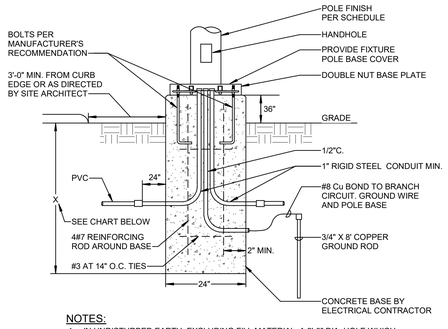
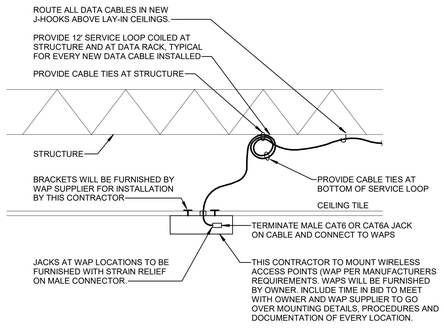


NOTES:

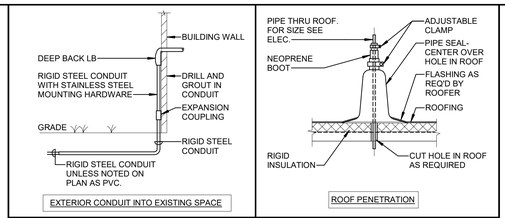
1. IN UNDISTURBED EARTH, EXCLUDING FILL MATERIAL, A 2'-0" DIA. HOLE WHICH SHALL BE USED AS THE FORM FOR THE CONCRETE BASE SHALL BE DRILLED.
2. IN EXCAVATED AREAS OR IN EXISTING SOIL CONTAINING FILL OF OBJECTIONABLE MATERIAL, BACKFILL AROUND CONCRETE BASE WITH COMPACTED GRANULAR BACKFILL A MIN. OF 2'-0" IN ALL DIRECTIONS.

POLE HEIGHT IN FEET	BASE DEPTH IN INCHES BELOW GRADE
10'-0"	X = 60" (INCHES)
15'-0"	X = 60" (INCHES)
20'-0"	X = 60" (INCHES)
25'-0"	X = 72" (INCHES)
30'-0"	X = 72" (INCHES)
35'-0"	X = 72" (INCHES)
40'-0"	X = 96" (INCHES)
45'-0"	X = 96" (INCHES)
50'-0"	X = 108" (INCHES)

4 / E8.0 — 36" EXTERIOR LIGHTING CONCRETE BASE DETAIL
SCALE: NTS



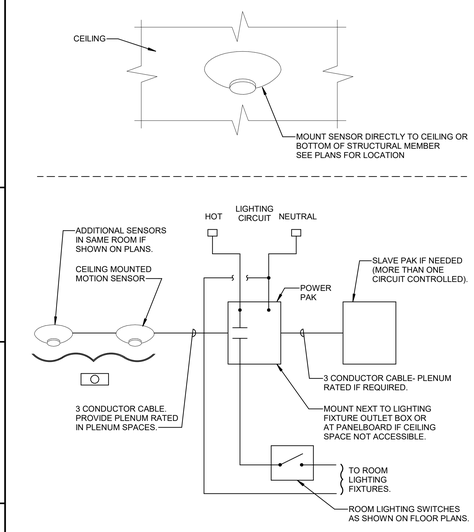
3 / E8.0 — WIRELESS ACCESS POINT MOUNTING DETAIL
SCALE: NTS



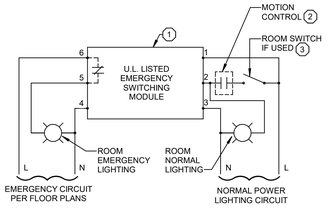
NOTES:

1. E.C. MAY USE PVC COATED RIGID STEEL CONDUIT IN LIEU OF RIGID CONDUIT AND PVC SLEEVE.
2. PVC SLEEVE TO BE AS SNUG AS POSSIBLE ON RIGID CONDUIT.

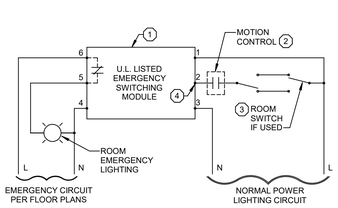
2 / E8.0 — CONDUIT DETAILS
SCALE: NTS



1 / E8.0 — MOTION SENSOR LIGHTING CONTROL
SCALE: NTS

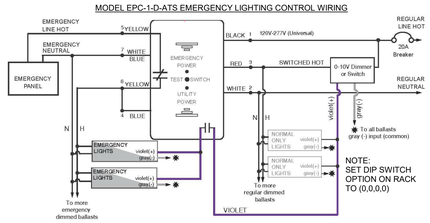


A — CONTROL OF EMERGENCY AND NORMAL LIGHTING WITH SAME SWITCH AND/OR MOTION DETECTOR



B — CONTROL OF EMERGENCY LIGHTING WITH SWITCH AND/OR MOTION DETECTOR OR EMERGENCY LIGHTING TO OPERATE ONLY UPON LOSS OF NORMAL POWER

MODEL EPC-1-D-ATS EMERGENCY LIGHTING CONTROL WIRING



NOTE:
SET DIP SWITCH OPTION ON RACK TO (0,0,0,0)

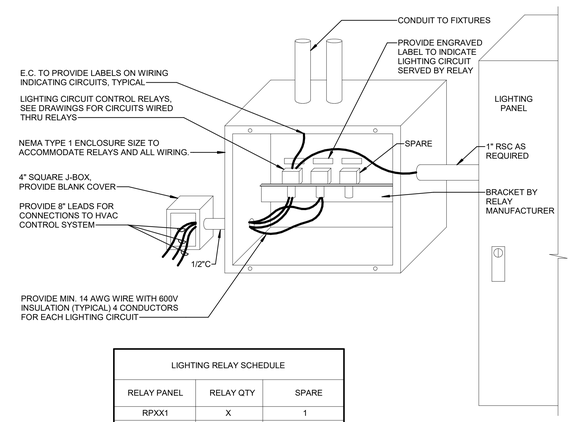
NOTE: Normal only lights are optional.

C — CONTROL OF EMERGENCY LIGHTING WITH 0-10V CONTROLS

PLAN NOTES: (X)

1. MOUNT IN NEMA 1 VENTED ENCLOSURE, 200% LARGER THAN MODULE(S). MOUNT ADJACENT TO EMERGENCY PANEL. PROVIDE ENGRAVED LABEL ON ENCLOSURE INDICATING FUNCTION IE: "EMERGENCY BYPASS RELAY XXXXXXXX LIGHTING".
2. POWER SUPPLY FOR MOTION DETECTOR ON NORMAL CIRCUIT. DELETE WHEN NOT SHOWN ON DRAWING.
3. SINGLE POLE 3-WAY AND 4-WAY SWITCHES. IF SHOWN ON PLANS.
4. CAP NORMAL SWITCH SENSE LINE WHERE EMERGENCY LIGHTING TO OPERATE ONLY UPON LOSS OF NORMAL POWER.

6 / E8.0 — EMERGENCY BYPASS DEVICE 0-10V
SCALE: NTS

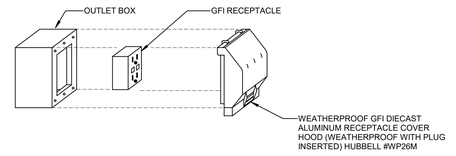


LIGHTING RELAY SCHEDULE		
RELAY PANEL	RELAY QTY	SPARE
RPXX1	X	1
RPXX2	X	1

GENERAL NOTES:

1. ENCLOSURE TO BE NEMA 1 GENERAL PURPOSE.
2. PROVIDE WIRING FROM RELAY COILS AND CONTACTS TO J-BOX ON CONTROL PANEL FOR CONNECTION BY HVAC CONTROL CONTRACTOR. LIGHTING TO BE CONTROLLED THRU HVAC SYSTEM CONTROLS.

5 / E8.0 — RELAY LIGHTING CONTROL
SCALE: NTS



NOTE:
FOR ALL NEW CONSTRUCTION BOX IS TO BE FLUSH MOUNTED.

OUTLET BOX:
FLUSH: 3 1/2" DEEP 1-GANG MASONRY BOX SURFACE: F.S. BOX

7 / E8.0 — GFI/WP RECEPTACLE MOUNTING DETAIL
SCALE: NTS

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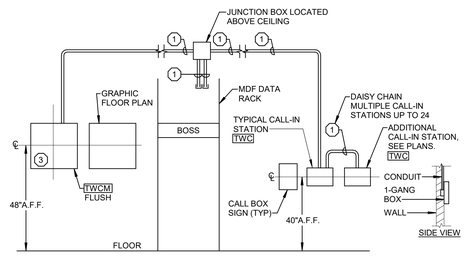
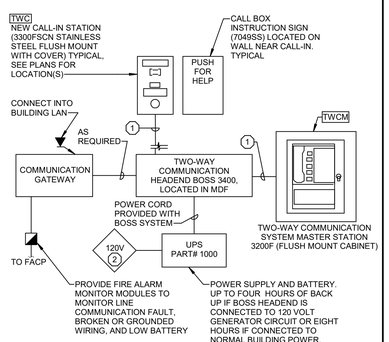


PLAN NOTES: (X)

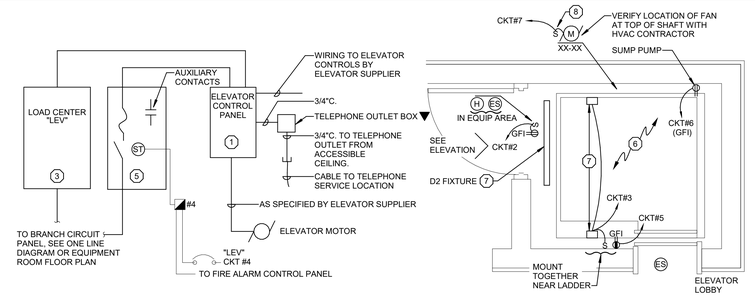
ROUGH-IN REQUIREMENTS

1. 18/4 CABLE IN 3/4" CONDUIT TO CONNECT MASTER PANEL AND STATIONS SUGGESTED.
2. POWER CONNECTION. PROVIDE 3/4" CONDUIT TO POWER SUPPLY.
3. MASTER PANEL OPENING PER SUPPLIERS RECOMMENDATIONS (BOX PROVIDED BY EQUIPMENT SUPPLIER).



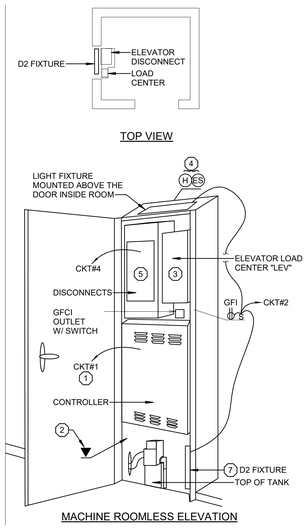
2 / E8.1 TWO-WAY COMMUNICATION SYSTEM RATH MASTER

SCALE: NTS



TYPICAL ELEVATOR PIT

NTS



MACHINE ROOMLESS ELEVATION

GENERAL NOTE:

1. THESE PLANS ARE A TYPICAL LAYOUT FOR ELEVATOR EQUIPMENT ROOM AND ELEVATOR PIT AREA. COORDINATE THE EXACT LOCATION OF ALL DEVICES WITH THE ELEVATOR EQUIPMENT SUPPLIER.

KEY NOTES: (X)

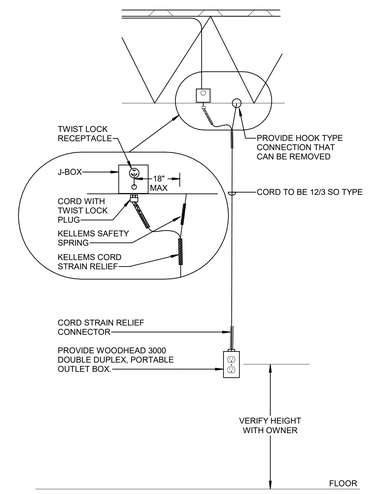
1. CONNECTION TO ELEVATOR CONTROL PANEL, FOR CAR LIGHTS AND RECEPTACLE.
2. WIRING FOR ELEVATOR TELEPHONE. MOUNT BELOW CONTROLLER, WIRE BACK TO MDF.
3. PROVIDE A 8 CIRCUIT, 100 AMP, SINGLE PHASE LOAD CENTER. ATTACH ENGRAVED LABEL INDICATING NAME OF PANEL. PROVIDE TYPED DIRECTORY INSIDE OF HINGED COVER, SEE DIRECTORY ON THIS DETAIL.
4. PROVIDE HEAT AND SMOKE DETECTORS.
5. DISCONNECT SHALL BE "BUSSMANN POWER MODULE SWITCH, MERSEN FUSIBLE SHUNT TRIP SWITCH OR EQUAL. PROVIDE AND INSTALL FUSES. UNIT SHALL HAVE SHUNT TRIP AND AUXILIARY CONTACT FOR BATTERY LOWERING DEVICE. VERIFY EXACT SIZE WITH ELEVATOR PROVIDER.
6. WHEN POSSIBLE MOUNT ALL ELECTRICAL DEVICES AT 48" IN ELEVATOR PIT. IF NOT POSSIBLE PROVIDE WIRING PER NEMA-4 WIRING STANDARDS.
7. PROVIDE TYPE D2 FIXTURE MOUNTED VERTICALLY OR HORIZONTALLY AT 18" TO CENTER ABOVE THE PIT FLOOR. COORDINATE WITH ELEVATOR SUPPLIER.
   METALUX CATALOG NUMBER 2VT2-LD5-5-DR100-W-UNV-L835-CD1-WL-U, OR
   LITHONIA CATALOG NUMBER FEM-L24-6000LM-LPPFL-WD-MVOLT-GZ10-35K-80CRI.
8. DISCONNECT SWITCH PROVIDED WITH UNIT, E.C. TO INSTALL.

LOAD CENTER "LEV":

CIRCUIT #1 - 15A/1P, GFI, WITH LOCK, ELEVATOR LIGHTS AND RECEPTACLE.
CIRCUIT #2 - 20A/1P, ELEVATOR EQUIPMENT AREA LIGHTS AND RECEPTACLE.
CIRCUIT #3 - 20A/1P, ELEVATOR PIT LIGHTS.
CIRCUIT #4 - 20A/1P, SHUNT TRIP.
CIRCUIT #5 - 20A/1P, ELEVATOR PIT REC.
CIRCUIT #6 - SUMP PUMP WITH LOCK.
CIRCUIT #7 - EXHAUST FAN
CIRCUIT #8 - SPARE.

1 / E8.1 TYPICAL ELEVATOR RISER - MACHINE ROOMLESS

SCALE: NTS



NOTE:

1. ALL STRAIN RELIEF CONNECTORS SIZED TO MATCH CORD DIAMETER.

3 / E8.1 OPEN CEILING CORD DROP OUTLET DETAIL

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