

CHESTER UNION FREE SCHOOL DISTRICT

CHESTER ACADEMY STEM LAB ALTERATIONS

64 HAMBLETONIAN AVENUE
CHESTER, NY 10918

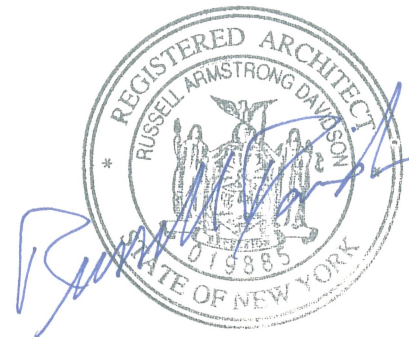
ISSUE FOR BID - NOVEMBER 02, 2022

CHESTER ACADEMY STEM
LAB ALTERATIONS

NY SED Project Control No.
44-02-01-02-0-009-006

KG+D Project No.
2021-1080

DESIGN TEAM



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LIST OF DRAWINGS

| | | | |
|--------------|--|------------|--|
| GENERAL | | PLUMBING | |
| G001 | GENERAL INFORMATION | P001 | PLUMBING SYMBOLS & GENERAL NOTES |
| CC001 | CODE COMPLIANCE | P201 | PLUMBING NEW WORK PLANS |
| CC001 | CODE COMPLIANCE INFORMATION | MECHANICAL | |
| CC002 | CODE COMPLIANCE PLANS & INFO | M001 | MECHANICAL SYMBOLS AND GENERAL NOTES |
| STRUCTURE | | M101 | MECHANICAL DEMOLITION PLANS |
| S101 | 2ND AND 3RD PARTIAL FLOOR FRAMING PLAN | M201 | MECHANICAL NEW WORK PLANS |
| ARCHITECTURE | | M601 | MECHANICAL SCHEDULES |
| A101 | DEMOLITION PLANS | M701 | MECHANICAL DETAILS 1 OF 2 |
| A201 | AREA OF WORK FLOOR PLANS | M702 | MECHANICAL DETAILS 2 OF 2 |
| A401 | INTERIOR ELEVATIONS | ELECTRICAL | |
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| A501 | FINISH PLANS AND SCHEDULES & SIGNAGE INFORMATION | E101 | ELECTRICAL PLANS - DEMOLITION |
| A502 | FURNITURE AND EQUIPMENT PLANS & SCHEDULES | E201 | ELECTRICAL PLANS - LIGHTING |
| A601 | AREA OF WORK REFLECTED CEILING PLAN | E301 | ELECTRICAL PLANS - POWER |
| A701 | STAIR PLANS & SECTIONS | E601 | ELECTRICAL SCHEDULES |
| A901 | DOOR, FRAME AND PARTITION TYPES & DETAILS | E701 | ELECTRICAL DETAILS |

PROJECT ABBREVIATIONS

| | | | | | |
|--------|--|-------|--|---------|--------------------------|
| AFF | ABOVE FINISH FLOOR | GALV | GALVANIZED | RCP | REFLECTED CEILING PLAN |
| ACM | ASBESTOS CONTAINING MATERIAL | GFB | GROUND FACE BLOCK | REFL | REFLECTED |
| ACPL | ACOUSTIC PANEL | GFRG | GLASS FIBER REINFORCED GYPSUM | REQD | REQUIRED |
| ACT | ACOUSTIC CEILING TILE | GL | GLASS | RB | RUBBER BASE |
| ADJ | ADJUSTABLE | GOG | GOGGLE | RTN | RETURN |
| AC | AIR CONDITIONING | GWB | GYPSUM WALLBOARD | RA | RETURN AIR |
| AESS | ARCHITECTURAL EXPOSED STRUCTURAL STEEL | | | REV | REVISED/REVISION |
| AHAP | AS HIGH AS POSSIBLE | H | HEIGHT AFF | RFI | REQUEST FOR INFORMATION |
| ALUM | ALUMINUM | HDW | HARDWARE | RO | ROUGH OPENING |
| AMP | ACRYLIC MODIFIED POLYESTER | HDWD | HARDWOOD | RT | RUBBER TREATD/TILE |
| APPROX | APPROXIMATE | HD | HEAD | RTB | RUBBER TREAD BASE |
| | | HDR | HEADER | RTT | RESILIENT TERRAZZO TILE |
| | | HVAC | HEATING, VENTILATING, AIR CONDITIONING | RW | RESCUE WINDOW |
| | | HR | HOUR | | |
| | | HT | HEIGHT | S | SAFETY GLZING/SEE SPEC |
| | | HM | HOLLOW METAL | SCHED | SCHEDULE/SCHEDULED |
| | | HMFR | HOLLOW METAL FRAME | SECT | SECTION |
| | | HORIZ | HORIZONTAL | SFB | SPLIT FACE BLOCK |
| | | HC | HANDICAP | SH | SHELVING/SHELF/SHELVES |
| | | | | SIM | SIMILAR |
| | | IF | INSIDE FACE | SL | SLATE |
| | | IN | INCH/INCHES | STC | SOUND TRANSMISSION CLASS |
| | | INCL | INCLUDE/INCLUSIVE | SPEC | SPECIFICATION |
| | | INFO | INFORMATION | SQFT | SQUARE FOOT |
| | | INSUL | INSULATION | ST | SAND, STAIN & SEAL |
| | | INT | INTERIOR | STSTL | STAINLESS STEEL |
| | | | | STL | STEEL |
| | | JC | JANITOR'S CLOSET | STR | STRUCTURAL/STRUCTURE |
| | | JT | JOINT | SUSP | SUSPENDED/SUSPENSION |
| | | | | | |
| | | KL | KICK PLATE | T | TOP |
| | | KD | KNOCKDOWN | TB | TACKBOARD |
| | | KO | KNOCKOUT | TBD | TO BE DETERMINED |
| | | | | TERR | TERRAZZO |
| | | | | TFF | TOP FINISHED FLOOR |
| | | LAM | LAMINATED | TMP GL | TEMPERED GLASS |
| | | LAMGL | LAMINATED GLASS | THERMO | THERMOSTAT |
| | | LT | LIGHT | T&B | TOP AND BOTTOM |
| | | LTG | LIGHTING | TO | TOP OF |
| | | LWC | LIGHT WEIGHT CONCRETE | TOS | TOP OF STEEL |
| | | LIN | LINOLEUM | TOSL | TOP OF STRUCTURAL SLAB |
| | | | | TOES | TOP OF EXISTING SLAB |
| | | MAINT | MAINTAIN/MAINTENANCE | TYP | TERRAZZO RESILIENT TILE |
| | | MAX | MAXIMUM | | TYPICAL |
| | | MFG | MANUFACTURER | | |
| | | MSNRY | MASONRY | UNFIN | UNFINISHED |
| | | MO | MASONRY OPENING | UNO | UNLESS NOTED OTHERWISE |
| | | MATL | MATERIAL | UR | UNRINAL |
| | | MECH | MECHANICAL | UTIL | UTILITY |
| | | MTL | METAL | | |
| | | MCP | METAL COMPOSITE PANEL | VAT | VINYL ASBESTOS TILE |
| | | MCB | METAL CORNER BEAD | VCT | VINYL COMPOSITE TILE |
| | | MS | METAL STUD | VEN | VENEER |
| | | MLWK | MILL WORK | VERT | VERTICAL |
| | | MIN | MINIMUM | VET | VINYL ENHANCED TILE |
| | | MISC | MISCELLANEOUS | VIF | VERIFY IN FIELD |
| | | MLDG | MOLDING | VRS | VINYL REDUCER STRIP |
| | | MTG | MOUNTING | VT | VINYL TILE |
| | | | | VWC | VINYL WALL COVERING |
| | | NIC | NOT IN CONTRACT | | |
| | | NTS | NOT TO SCALE | WB | WHITEBOARD |
| | | NO | NUMBER | WC | WATER CLOSET |
| | | | | WF | WATER FOUNTAIN |
| | | OC | ON CENTER | WGL | WIRE GLASS |
| | | OPNG | OPENING | W | WITH |
| | | OPP | OPPOSITE | W/C | WHEEL CHAIR |
| | | OH | OPPOSITE HAND | W/O | WITHOUT |
| | | OTS | OPEN TO STRUCTURE | WOM | WALK OFF MAT |
| | | OUT | OUTLET | WD | WOOD |
| | | OD | OUTSIDE DIAMETER | WD BLKG | WOOD BLOCKING |
| | | OF | OUTSIDE FACE | WD DR | WOOD DOOR |
| | | | | WP | WATERPROOFING |
| | | P | PAINTED | WR | WARDROBE |
| | | PT | PORCELAIN TILE | WW | WINDOW WALL |
| | | PTB | PORCELAIN TILE BASE | | |
| | | PR | PAIR | YD | YARD |
| | | PNL | PANEL | YCO | YARD CLEANOUT |
| | | PTN | PARTITION | | |
| | | PL | PROPERTY LINE | ZCC | ZINC COATED COPPER |
| | | PLAM | PLASTIC LAMINATE | | |
| | | PLMB | PLUMBING | | |
| | | PLYWD | PLYWOOD | | |
| | | PTWD | PRESERVATIVE TREATED WOOD | | |
| | | | | | |
| | | QT | QUARRY TILE | | |
| | | QTB | QUARRY TILE BASE | | |
| | | QTY | QUANTITY | | |
| | | | | | |
| FAB | FABRIC | | | | |
| FTF | FACE TO FACE | | | | |
| FIN | FINISHED | | | | |
| FA | FIRE ALARM | | | | |
| FD | FLOOR DRAIN | | | | |
| FDMPR | FIRE DAMPER | | | | |
| FE | FIRE EXTINGUISHER | | | | |
| FEC | FIRE EXTINGUISHER CABINET | | | | |
| FF | FACTORY FINISH | | | | |
| FHC | FIRE HOSE CABINET | | | | |
| FHVC | FIRE HOSE VALVE CABINET | | | | |
| FR | FIRE RATED | | | | |
| FRD | FRENCH DRAIN | | | | |
| FFSC | FIRE RATED ASSEMBLY (DOORS) | | | | |
| FRTD | FIRE RETARDANT | | | | |
| FIX | FIXTURE | | | | |
| FULFLR | FLOOR | | | | |
| FLUOR | FLUORESCENT | | | | |
| FL MTD | FLUSH MOUNTED | | | | |
| FT | FOOT/FEET | | | | |
| FON | FOUNDATION | | | | |
| FRITZ | FRITZ FLOOR (RTT) TILE | | | | |

UNIFORM SAFETY STANDARDS FOR SCHOOL CONSTRUCTION & MAINTENANCE PROJECTS

THE OCCUPIED PORTION OF THE EXISTING SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.

ALL SCHOOL AREAS TO BE DISTURBED DURING RENOVATION OR DEMOLITION HAVE BEEN OR WILL BE TESTED FOR LEAD AND ASBESTOS.

GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:

- (A) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
- (B) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
- (C) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- (D) DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
- (E) WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.

SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES:

CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.

- (A) A SPECIFIC STAIRWELL AND/OR ELEVATOR SHOULD BE ASSIGNED FOR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF.
- (B) LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.
- (C) ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION.

A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.

A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.

CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES SHALL BE TAKEN.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED.

LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED". NOTE, IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED. AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL DISTRACTION.

SURFACES THAT WILL BE DISTURBED BY RECONSTRUCTION MUST HAVE A DETERMINATION MADE AS TO THE PRESENCE OF LEAD. PROJECTS WHICH DISTURB SURFACES THAT CONTAIN LEAD SHALL HAVE IN THE SPECIFICATIONS A PLAN PREPARED BY A CERTIFIED LEAD RISK ASSESSOR OR SUPERVISOR WHICH DETAILS PROVISIONS FOR OCCUPANT PROTECTION, WORKSITE PREPARATION, WORK METHODS, CLEANING AND CLEARANCE TESTING WHICH ARE IN GENERAL ACCORDANCE WITH THE HUD GUIDELINES.

SHEET IDENTIFICATION LEGEND

| DISCIPLINE DESIGNATORS | | SHEET TYPE DESIGNATOR | |
|------------------------|------------------------------|-----------------------|---|
| G | GENERAL | G | GENERAL |
| CC | CODE COMPLIANCE | 1 | DEMOLITION |
| PH | PHASING | 2 | PLANS |
| HM | HAZARDOUS MATERIAL ABATEMENT | 3 | EXTERIOR ELEVATIONS & BUILDING SECTIONS |
| C | CIVIL | 4 | ENLARGED PLANS & INTERIOR ELEVATIONS |
| L | LANDSCAPE | 5 | FINISHES |
| S | STRUCTURAL | 6 | REFLECTED CEILING PLANS |
| A | ARCHITECTURAL | 7 | VERTICAL CIRCULATION |
| F | FIRE PROTECTION | 8 | WALL SECTIONS & ENLARGED DETAILS |
| P | PLUMBING | 9 | TYPICAL DETAILS |
| M | MECHANICAL | | |
| E | ELECTRICAL | | |

SYMBOLS LEGEND

| ROOM NAME | ROOM TAG (NAME, NUMBER, & AREA) | | |
|-----------|---------------------------------|--|--|
| 101 | | | DENOTES EXISTING AREA OF THE BUILDING TO REMAIN (NO MAJOR GENERAL CONSTRUCTION). |
| 150 SF | | | DENOTES EXISTING WALL TO REMAIN |
| | WALL TYPE & FIRE RATING TAG | | |
| | WINDOW TYPE TAG | | DENOTES EXISTING WALL TO BE DEMOLISHED |
| | DOOR DESIGNATION TAG | | DENOTES 1hr OR NON-RATED WALL |
| | COLUMN LINE | | DENOTES 2hr RATED WALL |
| | EXTERIOR ELEVATION | | DENOTES WALL TYPE & FIRE RATING |
| | INTERIOR ELEVATION | | DENOTES EXISTING DOOR TO REMAIN (U.N.O) |
| | WALL OR BUILDING SECTION | | DENOTES EXISTING DOOR AND OR FRAME TO BE DEMOLISHED. SEE DOOR SCHEDULE. |
| | | | DENOTES NEW DOOR AND OR FRAME. SEE DOOR SCHEDULE |

MATERIALS LEGEND

| | | | |
|--|---|--|---|
| | CMU WALL | | CAULK w/ BACKER ROD |
| | CMU WALL | | WATERPROOFING MEMBRANE, OR ROOFING MEMBRANE OR FLASHING |
| | GWB WALL | | RIGID INSULATION |
| | MASONRY VENEER | | BATT INSULATION |
| | GWB - "TYPE X" UNO (SEE SPECS) | | POROUS FILL |
| | EXPOSED TO WEATHER OR MOISTURE) | | SUITABLE COMPACTED BACKFILL (SEE SPEC) |
| | WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE) | | UNDISTURBED SOIL |
| | | | CAST-IN-PLACE CONCRETE OR CAST STONE |
| | | | GLASS SURFACE |

PROJECT INFORMATION

| | |
|---|---|
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| PROJECT LOCATION | CHESTER ACADEMY 64 HAMBLETONIAN AVENUE CHESTER, NEW YORK 10918 |
| TYPE OF PROJECT | ALTERATIONS (LEVEL 2 - 2020 EBCNYS) |
| NYSED NUMBER | 44-02-01-02-0-009-006 |
| PROJECT COMMENCEMENT | JANUARY 03 2023 |
| PROJECT COMPLETION | AUGUST 01 2023 |
| APPLICABLE CODES | 2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE 2020 EXISTING BUILDING CODE OF NEW YORK STATE 1998 MANUAL OF PLANNING STANDARDS, THE UNIVERSITY OF THE STATE OF NEW YORK, THE STATE EDUCATION DEPARTMENT ANSI A117/1-09 ACCESSIBLE & USABLE BUILDINGS AND FACILITIES |
| *SEE DRAWINGS ON CODE COMPLIANCE PLANS FOR WORK AREAS & ADDITIONAL INFORMATION* | |

CHESTER ACADEMY

STEM LAB ALTERATIONS

CHESTER UNION FREE SCHOOL DISTRICT

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44-02-01-02-0-009-006

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Professional Seal

BUILDING KEY PLAN

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| 3 | 11/02/2022 | ISSUE FOR BID |
| 1 | 05/25/2022 | NYSED - CONST. DOCS. |
| No. | Date | Issue |
| Sheet Title | | |

GENERAL INFORMATION

| | |
|--------------|-----------------|
| Job No. | Date |
| 2021-1080 | 11/02/2022 |
| Scale | Drawn / Checked |
| AS NOTED | KG+D |
| Sheet Number | |

G001

| CHAPTERS 3-6: OCCUPANCY, AREA, AND CONSTRUCTION TYPES | | |
|--|----------------------------|------------|
| USE + OCCUPANCY CLASSIFICATION: | E (EDUCATIONAL) | |
| CONSTRUCTION CLASSIFICATION: | IB - PARTIALLY SPRINKLERED | |
| FIRE RESTISTANCE RATING REQUIRMENTS | | |
| WALL (BEARING): | 2 HRS | |
| WALL (NON-BEARING): | 0 HRS | |
| FLOORS: | 2 HRS | |
| ROOF: | 1 HRS | |
| BUILDING HEIGHT & AREA: | | |
| *PRE-EXISTING NON-CONFORMING* (NS = NONSPRINKLERED) | | |
| HEIGHT | PERMITTED(NS) | ACTUAL |
| STORIES | 160'-0" | 54'-0" +/- |
| FLOOR AREA | 5 | 3 |
| | UNLIMITED | 132,600 SF |
| TOTAL PROJECT SCOPE AREA: | 5,170 SF (RENOVATION) | |

| CHAPTER 7: FIRE & SMOKE PROTECTION | | |
|--|------------------------|--|
| ASSEMBLY | FIRE-RESISTANCE RATING | LOCATION |
| FIRE PARTITION | 1 HOUR | CORRIDORS STAIR ENCLOSURES SMOKE STOPS |
| *** SEE DRAWING CC002 FOR LOCATION OF FIRE-RESISTANCE RATED CONSTRUCTION *** | | |

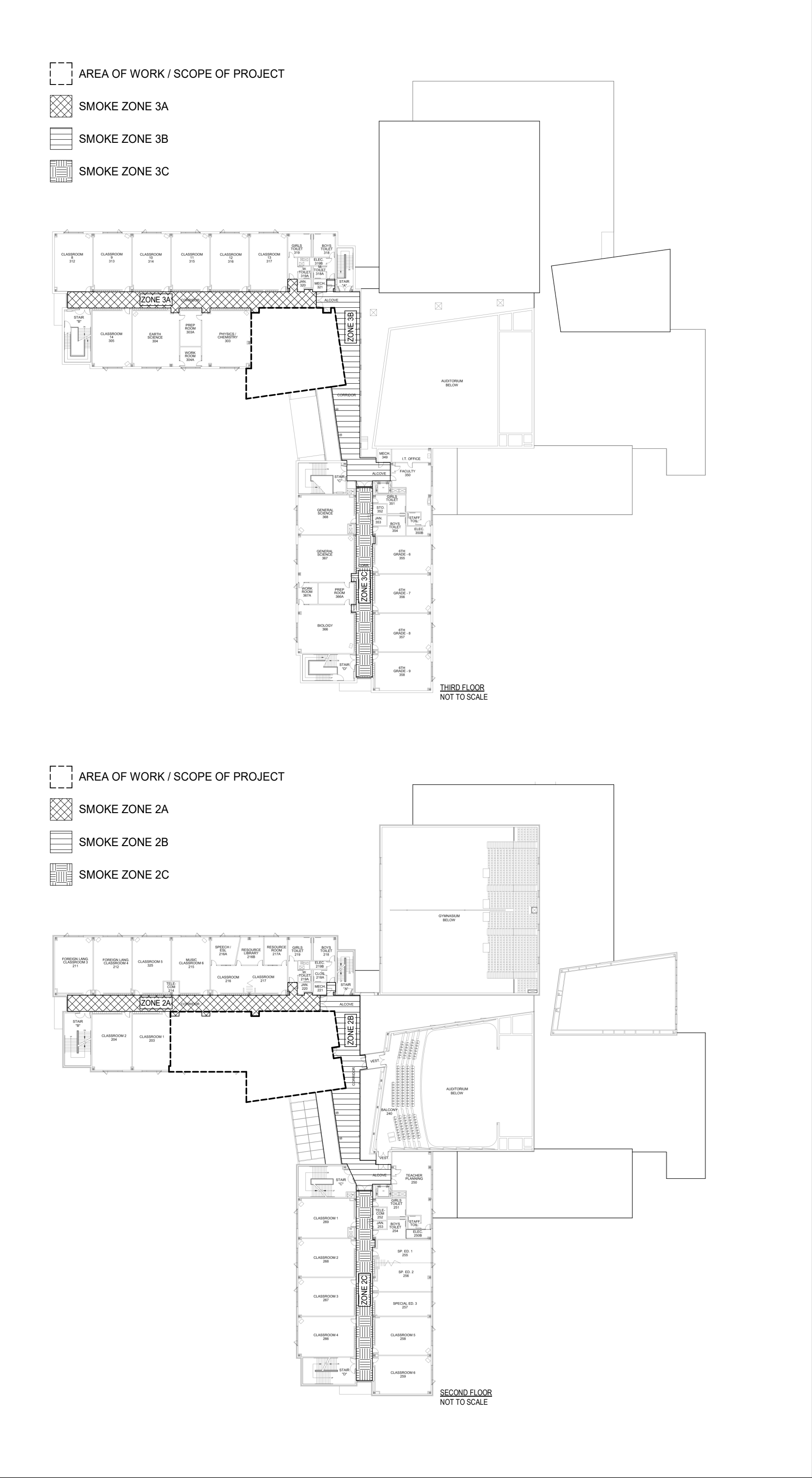
| CHAPTER 10: MEANS OF EGRESS | |
|--|--------------|
| ITEM | DRAWING SHOW |
| ROOM USE DESIGNATION | CC002 |
| ROOM SQUARE FOOTAGE | CC002 |
| ROOM OCCUPANCY LOADS | CC002 |
| TRAVEL DISTANCES | CC002 |
| ASSEMBLY SPACE CAPACITY CALCULATIONS(NY BC) | CC002 |
| DOOR CAPACITY CALCULATIONS | CC002 |
| NYS BC TABLE 1017.2 200'-0 MAX EXIT ACCESS TRAVEL DISTANCE (UNSPRINKLERED) | |
| NYS BC TABLE 1006.2.1 75'-0 MAX COMMON PATH OF TRAVEL (UNSPRINKLERED) | |
| NYS BS SECTION 1005.3 EXIT STAIR WIDTHS 0.3" / OCCUPANT (NS) OTHER EGRESS COMPONENTS 0.2" / OCCUPANT (NS) | |
| NYSYED MANUAL OF PLANNING STANDARDS 120'-0" TO STAIR ENCLOSURE FROM CORRIDOR 50'-0" TO EXIT FROM ALL ROOMS 1500 SF AND UNDER 75'-0" TO SEPARATE SMOKE ZONE IN OPEN PLANNED AREAS NO DEADEND CORRIDORS (<1.5 x WIDTH, MAX 20'-0") | |

| CHAPTER 11: ACCESSIBILITY | |
|---------------------------|-----------------------|
| ITEM | DRAWING SHOWN |
| INTERIOR ACCESSIBLE ROUTE | CC002 |
| ACCESSIBLE ENTRANCES | CC002 |
| SIGNAGE | A501 & SPECIFICATIONS |
| DOOR APPROACH CLEARANCES | CC002 & FLOOR PLANS |
| DOOR HARDWARE | SPECIFICATIONS |

| PROGRAM NOMENCLATURE |
|--|
| STEM LAB (ENTIRE PROJECT/SCOPE) |
| LEARNING COMMONS - SECOND FLOOR OF STEM LAB |
| - LEARNING STUDIO |
| LIBRARY |
| LIBRARY ASSEMBLY |
| LIBRARY BOOK STACKS |
| WORKING MEZZANINE |
| DESIGN COLLABORATION |
| COLLAB ROOM (RM 201B) |
| WORK ROOM |
| COLLAB ROOM (RM 202B) |
| - COLLAB ROOM (RM 202) |
| PRODUCTION STUDIO - THIRD FLOOR OF STEM LAB |
| - PRODUCTION CLASSROOM |
| - PRODUCTION LAB |

EXISTING SMOKE ZONES

THE RENOVATIONS FOR THIS PROJECT ONLY ALTERS THE SECOND AND THIRD FLOORS OF THE SCHOOL.
(THE FLOOR PLANS BELOW ARE EXISTING PLANS TO SHOW SMOKE ZONES NEAR THE AREAS OF WORK)



CHESTER ACADEMY
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listen
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NY SED PROJECT CONTROL NO.
44-02-01-02-0-009-006

CONSTRUCTION
DOCUMENTS

AREA OF WORK

BUILDING KEY PLAN

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STATE OF NEW YORK

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| 2 | 06/16/2022 | NYSED - ADDENDUM #1 |
| 1 | 05/25/2022 | NYSED - CONST. DOCS. |

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Sheet Title

CODE
COMPLIANCE
INFORMATION

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| Job No. | Date |
| 2021-1080 | 11/02/2022 |
| Scale | Drawn / Checked |
| AS NOTED | KG+D |
| Sheet Number | |

CC001

CHESTER ACADEMY
STEM LAB
ALTERATIONS

CHESTER UNION FREE
SCHOOL DISTRICT

64 HAMBLETONIAN AVENUE
CHESTER, NY 10918



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NY SED PROJECT CONTROL NO.

44-02-01-02-0-009-006

CONSTRUCTION
DOCUMENTS

CODE COMPLIANCE
GENERAL NOTES & LEGEND

AREA OF NO WORK (EXISTING)

EXISTING RESCUE WINDOW
(50"H x 30"W)

Room name
101
150 SF
20 OCC.

ROOM OCCUPANCY TAG

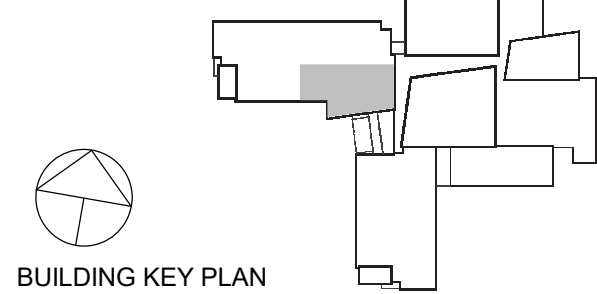
EXIT/EGRESS CAPACITY
X = OCCUPANCY EGRESS LOAD
Y = MAXIMUM CAPACITY

MOST REMOTE POINT
COMMON PATH OF TRAVEL
DIRECTION OF TRAVEL

ADA ACCESSIBLE EXIT

PARTITION RATINGS
EXISTING 1HR DELUGE SPRINKLER
EXISTING 1HR PARTITION
EXISTING 2HR PARTITION
NEW 1HR PARTITION

AREA OF WORK



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Sheet Title

CODE
COMPLIANCE
PLANS & INFO

Job No. 2021-1080 Date 11/02/2022

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Sheet Number

CC002

ASSEMBLY SPACE EGRESS CAPACITY CALCULATIONS

PER NYS BS: 1005.3.1, 1005.3.2, 1006.3.2 & NYSED MPS

| PER NYS BC | | | REQUIRED | | | PROVIDED | | |
|---|----------|---------------|----------------------|------------|--|--------------|------------|--|
| LOCATION | AREA | OCCUPANT LOAD | EGRESS WIDTH | # OF EXITS | MAXIMUM EGRESS PATHS | EGRESS WIDTH | # OF EXITS | MAXIMUM EGRESS PATHS |
| LEARNING STUDIO (SEE LEARNING COMMONS OCCUPANCY TABLE FOR MORE DETAIL) | 3,981 SF | 168 OCC. | 33" (OCC x 0.20") | 2 | 200'-0" EXIT ACCESS TRAVEL DISTANCE | 102" | 2 | 75'-2" EXIT ACCESS TRAVEL DISTANCE |
| | | | | | 75'-0" COMMON PATH OF TRAVEL DISTANCE | | | 67'-6" COMMON PATH OF TRAVEL DISTANCE |

NOTE: ASSUME WHEN THE LIBRARY ASSEMBLY IS FULLY OCCUPIED, SPACES OUTSIDE THE LEARNING COMMONS ARE NOT FULLY OCCUPIED.

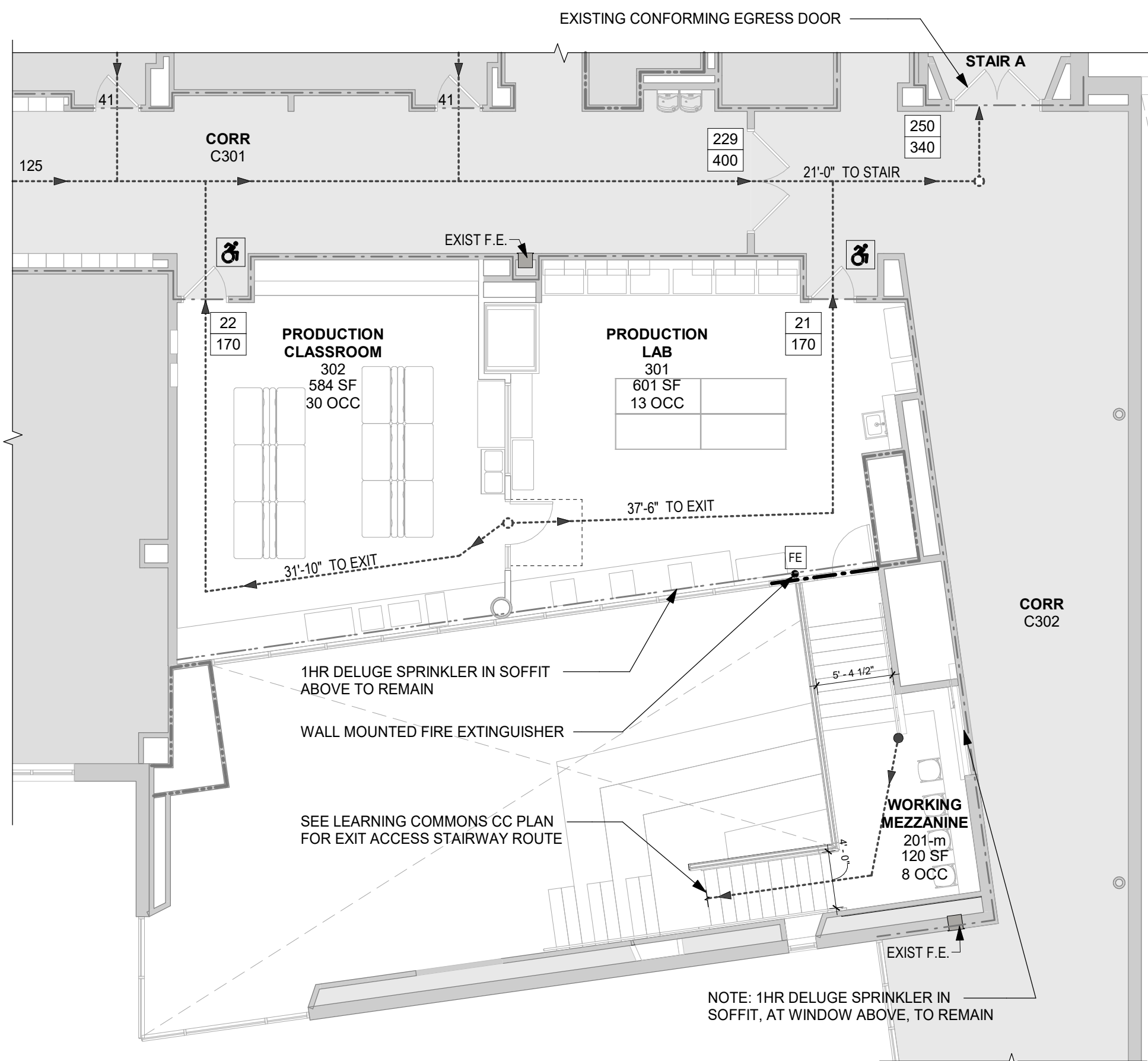
NYSED PLANNING STANDARDS: ANY POINT IN A CORRIDOR, OTHER THAN THE GROUND FLOOR CORRIDOR, SHALL NOT EXCEED 120 FEET ALONG THE LINE OF TRAVEL TO THE STAIR ENCLOSURE OF AN EXIT STAIRWAY.

ALL CORRIDOR PATHS OF TRAVEL (TO A STAIR ENCLOSURES) ARE EXISTING CONFORMING CONDITIONS

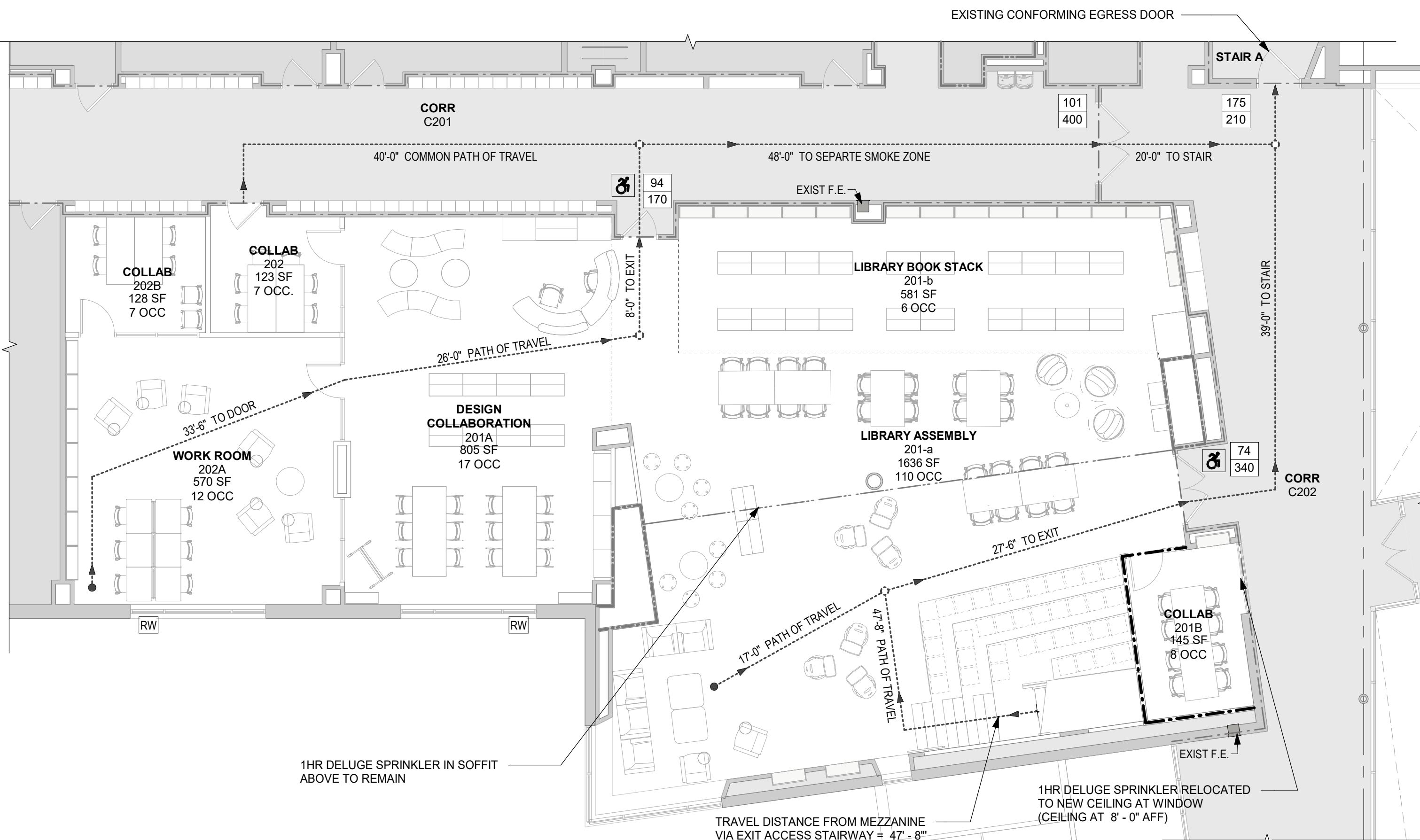
OCCUPANCY TABLE - LEARNING COMMONS

| LOCATION | ROOM NAME / SPACE | ROOM NUMBER | AREA | FUNCTION OF SPACE | CODE FACTOR | OCCUPANT LOAD |
|-----------------|----------------------|-------------|----------|---------------------------|-------------|---------------|
| LEARNING STUDIO | LIBRARY ASSEMBLY | 201-a | 1,636 SF | ASSEMBLY - unconcentrated | 15 | 110 OCC |
| | LIBRARY BOOK STACKS | 201-b | 581 SF | LIBRARY - stack area | 100 | 6 OCC |
| | WORKING MEZZANINE | 201-m | 120 SF | ASSEMBLY - unconcentrated | 15 | 8 OCC |
| | DESIGN COLLABORATION | 201A | 806 SF | LIBRARY - reading room | 50 | 17 OCC |
| | COLLAB | 201B | 141 SF | EDUCATIONAL - classroom | 20 | 8 OCC |
| | WORK ROOM | 202A | 570 SF | LIBRARY - reading room | 50 | 12 OCC |
| | COLLAB | 202B | 127 SF | EDUCATIONAL - classroom | 20 | 7 OCC |
| COLLAB (202) | COLLAB | 202 | 123 SF | EDUCATIONAL - classroom | 20 | 7 OCC |

| OCCUPANCY TABLE - PRODUCTION STUDIO | | | | | | |
|-------------------------------------|----------------------|-------------|----------|-------------------------|-------------|---------------|
| LOCATION | ROOM NAME / SPACE | ROOM NUMBER | AREA | FUNCTION OF SPACE | CODE FACTOR | OCCUPANT LOAD |
| PRODUCTION STUDIO | | | 1,185 SF | | | 43 OCC |
| | PRODUCTION LAB | 301 | 601 SF | EDUCATIONAL - shop | 50 | 13 |
| | PRODUCTION CLASSROOM | 302 | 584 SF | EDUCATIONAL - classroom | 20 | 30 |



2 PRODUCTION STUDIO (3RD FL) - CC PLAN
1/8" = 1'-0"



1 LEARNING COMMONS (2ND FL) - CC PLAN
1/8" = 1'-0"

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CONSTRUCTION
DOCUMENTS



After approval by the engineer, the deferred submittal documents shall be submitted to the building official for approval. Deferred submittal items shall not be installed until the deferred submittal documents have been approved by the building official.

- 1 Wood Structural Panels commonly referred to as sheathing panels shall conform to U.S. Product Standard DPG PS 1 or PS 2, and bear the APA grade-trademark of the American Plywood Association.
- 2 Sheathing panels shall be APA rated sheathing, Exposure 1, with a minimum span index rating of 32/16.
- 3 Sheathing panels on flat surfaces shall be installed with face grain or panel long dimension perpendicular across supports and continuous over two or more spans. Provide 1/8" space between panel edges. On sloped ice grade or roof surfaces, provide 1/16" space between panel edges over supporting members.
- 4 Floor sheathing shall be glued to supporting members with construction adhesive such as PL 200, laid in a continuous 1/4 inch wide bead along the member length.

JOIST SIZE SHOWN THUS $\frac{3 5/8 \times 13 3/8 \times 16 \text{ GA AT } 16" \text{ O.C.}}$

ORK

PLAN

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Professional Sea



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| 2 | 11/02/2022 | ISSUE FOR BID |
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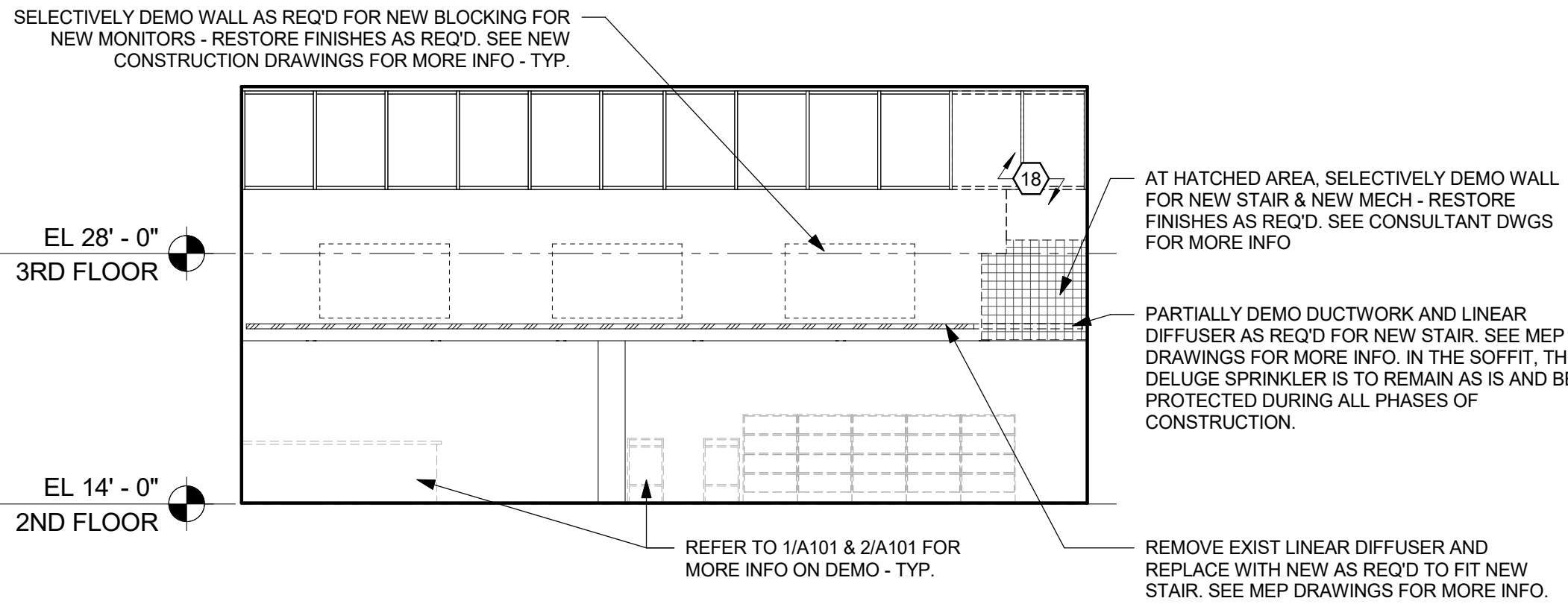
Sheet Title

2ND AND 3RD PARTIAL FLOOR FRAMING PLAN

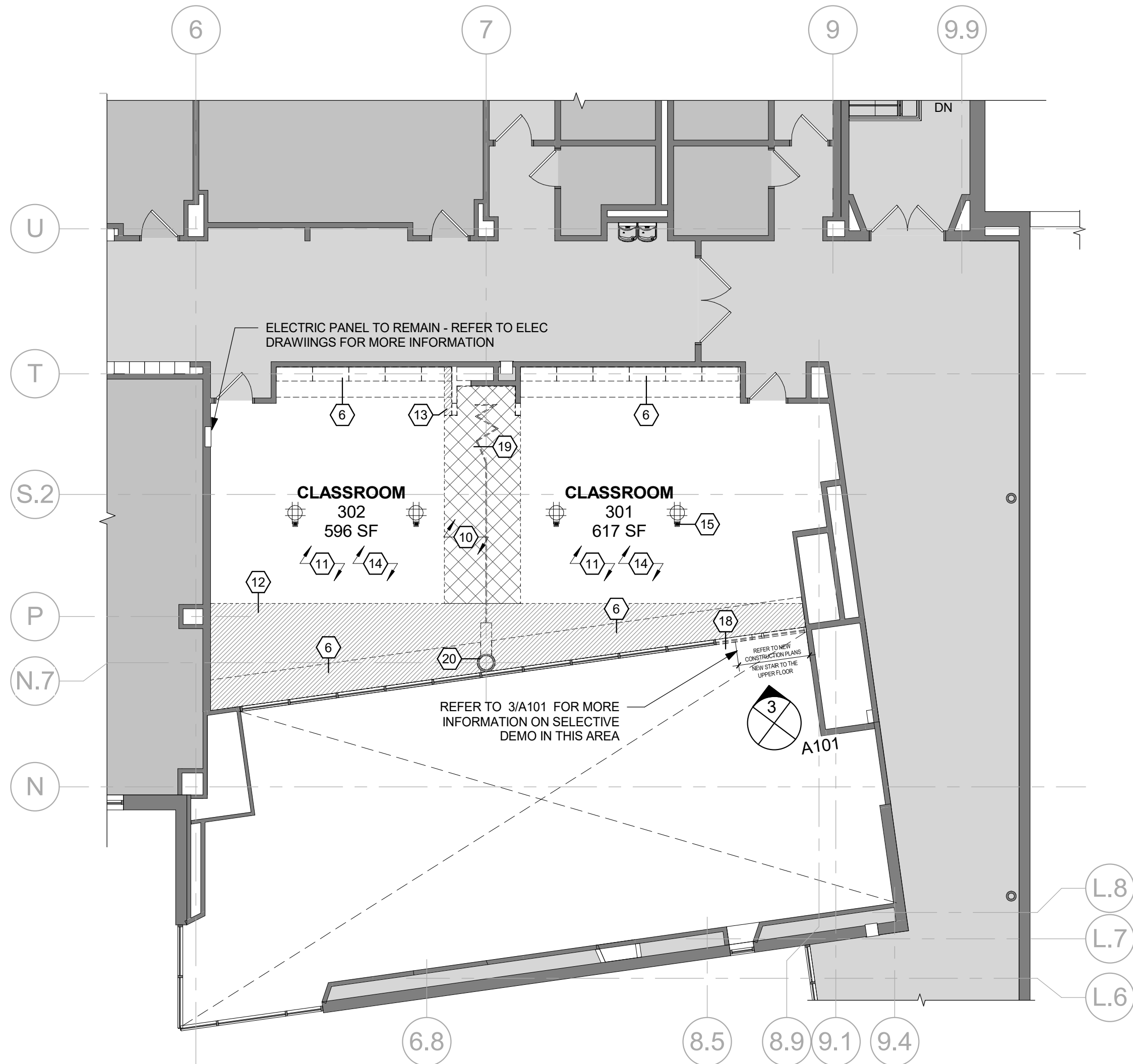
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S101

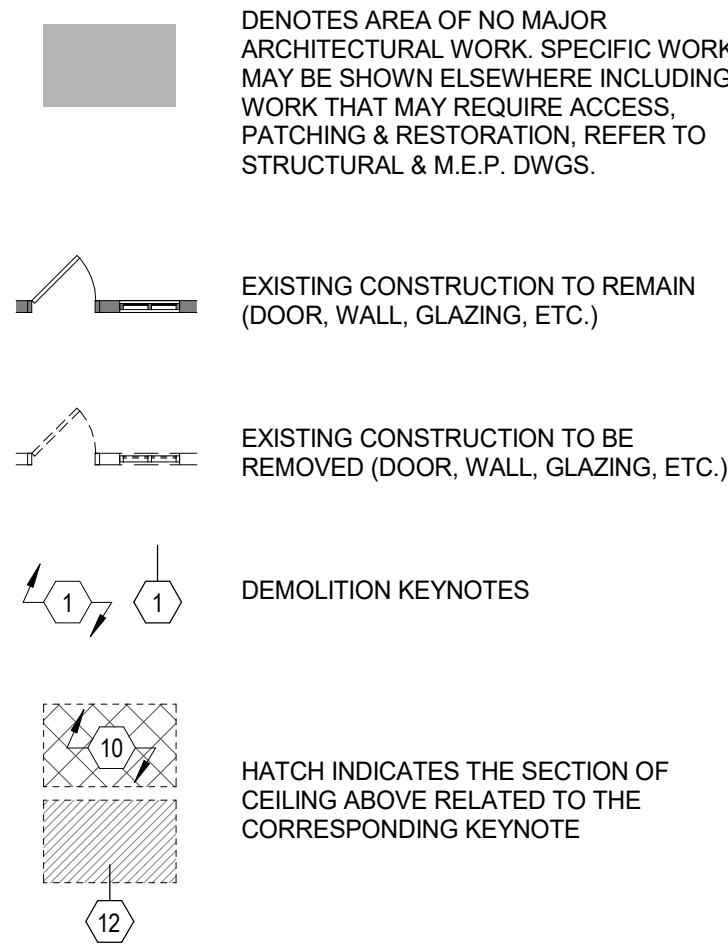


3 DEMO ELEVATION @ DOUBLE-HEIGHT SPACE
1/8" = 1'-0"



2 3RD FLOOR - DEMO PLAN
1/8" = 1'-0"

DEMOLITION LEGEND

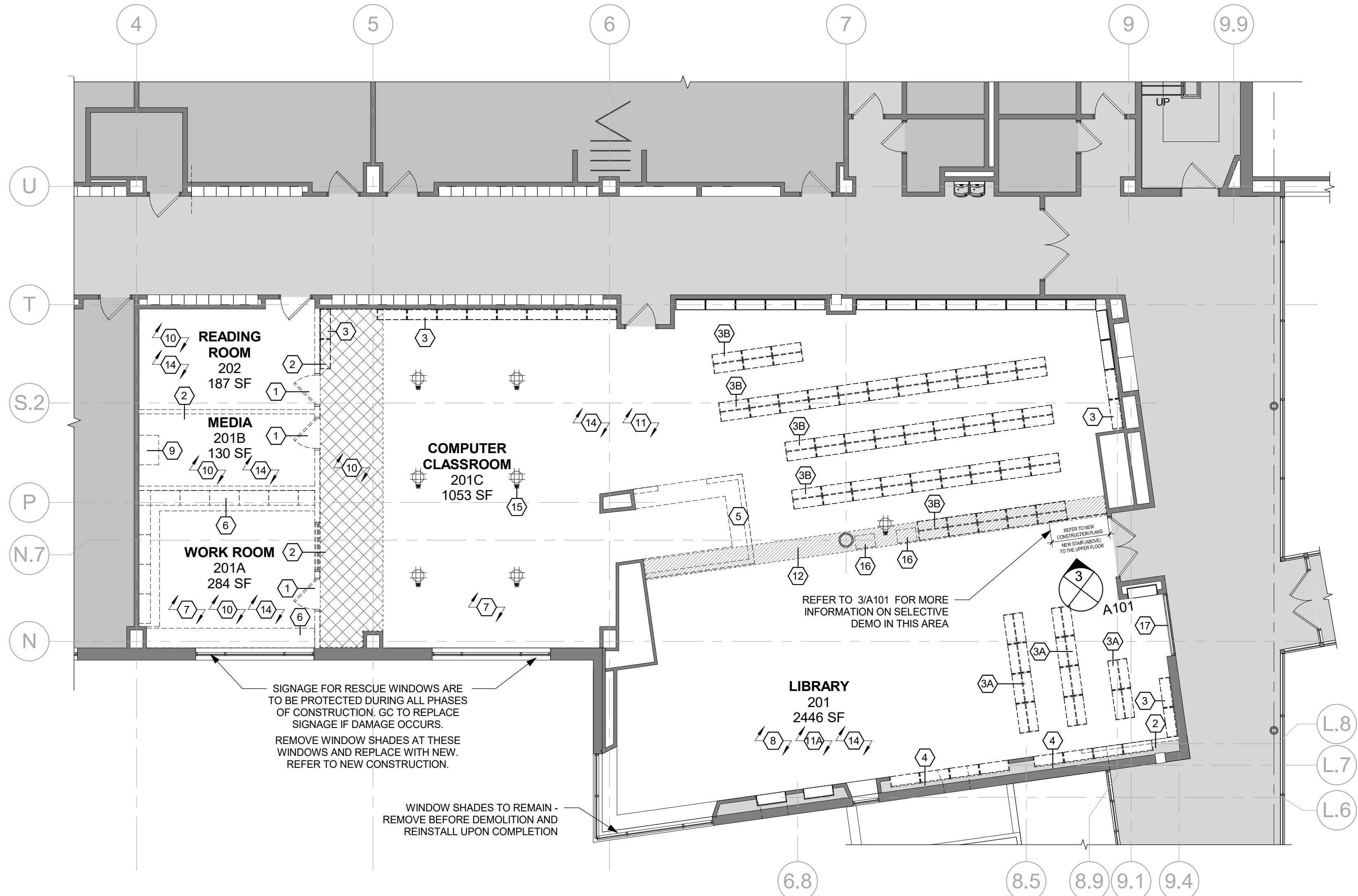


GENERAL DEMOLITION NOTES:

- DEMOLITION IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON DRAWINGS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS. PRIOR TO ANY DEMOLITION CONTRACTORS ARE REQUIRED TO VISIT SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND NOTE ANY DISCREPANCIES IN WRITING TO ARCHITECT.
- COORDINATE ALL DEMOLITION w/ M.E.P. REMOVALS. NOTE: ALL WIRING, DEVICES & M.E.P. SYSTEMS NOT BEING REMOVED AS PART OF THE WORK, WHICH RUN THROUGH THE WORK AREA, SHALL BE TESTED, LABELED & PROTECTED FROM DISTURBANCE SO THEY REMAIN OPERATIONAL THROUGHOUT THE PROJECT.
- HAZARDOUS MATERIAL ABATEMENT IS NOT PART OF THE WORK FOR THIS PROJECT. NOTIFY THE ARCHITECT IMMEDIATELY SHOULD SUSPECT MATERIAL BE DISCOVERED.
- AT ANY SPACE BEING RENOVATED CONTRACTOR SHALL REMOVE EQUIPMENT AND MISCELLANEOUS ITEMS SUCH AS PLAQUES, SIGNAGE, MIRRORS, PICTURE FRAMES, DISPLAY BOARDS, TACK BOARDS, INTERCOMS, SPEAKERS, AND THE LIKE, AND TURN OVER TO THE OWNER PRIOR TO DEMOLITION.
- ALL FLOOR AND WALL BASE TO BE REMOVED IN AREAS SHOWN IN CONTRACT.
- ALL LIGHTING TO BE REMOVED IN AREAS SHOWN IN CONTRACT, UNO.
- RETURN ALL EXISTING AV EQUIPMENT (I.E. PROJECTORS, SCREENS, MONITORS, AND SPEAKERS) TO OWNER PRIOR TO DEMOLITION.
- DEMOLITION OF DOOR ASSEMBLIES TYPICALLY INCLUDE THE DEMO OF DOOR PANEL(S), FRAME SIDELITES (IF PRESENT), TRANSOMS (IF PRESENT), DOOR SADDLE, HARDWARE, AND RELATED ACCESSORIES. PATCH WALL, FLOOR, & HEAD. PREP FOR NEW DOOR ASSEMBLY (IF APPLICABLE).
- WHEN DEMOLISHING PORTIONS OF THE WALLS OR ROOFS, CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND SUPPORT LINTELS. REGARDLESS OF WHETHER OPENING SPECIFICALLY CALLS OUT FOR A NEW LINTEL OR NOT.
- BEFORE CUTTING AND OPENING/HOLE/TRENCH SPECIFICALLY FOR OTHER TRADE, CONTRACTOR SHALL REVIEW & VERIFY EXACT SIZE & LAYOUT WITH THAT TRADE CONTRACTOR.
- WHEN DEMOLISHING FLOORS CONTRACTORS SHALL REMOVE FINISH FLOORING & SCRAPE SLAB/SUB-FLOORING CLEAN. SUB-FLOOR SHALL BE LEVELED PRIOR TO INSTALLATION OF NEW SCHEDULED FINISH FLOOR. ANY DAMAGE TO ADJ. FLOORS SHALL BE PATCHED.
- AFTER DEMOLITION OPERATIONS, WHEN FINISH PATCHING IF SPECIFIC FINISH/MATERIAL IS NOT CALLED OUT, CONTRACTOR SHALL MATCH EXISTING ADJACENT MATERIALS.
- AFTER DEMOLITION, WHERE SPECIFICALLY CALLED OUT OR NOT, CONTRACTOR SHALL REPAIR ALL SCARS TO EXISTING ADJACENT MATERIALS AND RESTORE TO PRIOR CONDITION.
- OWNER HAS RIGHT OF FIRST REFUSAL OF ANY MATERIAL.

DEMOLITION KEYNOTES

| | |
|-----|---|
| 1 | REMOVE & DISPOSE EXIST DOOR, FRAME AND ALL ASSOCIATED HARDWARE - COORD. W/ NEW CONSTRUCTION |
| 2 | REMOVE & DISPOSE EXIST PARTITIONS (AND WINDOW WHEN APPLICABLE) - PATCH & MATCH EXIST SURFACES - PREP FOR INSTALLATION OF NEW WALLS & FINISHES - TYP |
| 3 | EXISTING TALL BOOK STACKS - NINE BOOK STACKS ARE TO BE STORED AND REINSTALLED IN DIFFERENT LOCATIONS. SEE NEW CONSTRUCTION DRAWINGS FOR LOCATIONS - COORDINATE REMOVAL AND/OR DISPOSAL OF THE REMAINING BOOK STACKS WITH DISTRICT FACILITIES DIRECTOR |
| 3A | EXISTING 5FT BOOK STACKS - TEN 5FT BOOK STACKS ARE TO BE STORED AND REINSTALLED IN DIFFERENT LOCATIONS |
| 3B | EXISTING 5FT BOOK STACK TO BE REMOVED - COORDINATE REMOVAL AND/OR DISPOSAL WITH DISTRICT FACILITIES DIRECTOR - TYP |
| 4 | REMOVE RECESSED BOOK STACKS - COORD. INFILL W/ NEW CONSTRUCTION |
| 5 | REMOVE & DISPOSE EXISTING RECEPTION DESK IN ITS ENTIRETY |
| 6 | REMOVE EXISTING COUNTER, CASEWORK AND ALL ASSOCIATED HARDWARE & ACCESSORIES AS REQUIRED |
| 7 | COORDINATE WITH DISTRICT ON REMOVAL AND STORAGE FOR ALL PRODUCTION EQUIPMENT. THIS EQUIPMENT MUST BE PROTECTED DURING ALL PHASES OF CONSTRUCTION. THE EQUIPMENT IS TO BE REINSTALLED IN A NEW LOCATION AS PER THE DRAWINGS ON A201 AND A502 |
| 8 | COORDINATE REMOVAL OF FURNITURE W/ DISTRICT - LOOSE FURNITURE TO BE REMOVED BY OWNER |
| 9 | REMOVE & DISPOSE DATA RACK AND ALL ASSOCIATED COMPONENTS - SEE ELECTRICAL DRAWINGS FOR MORE INFO |
| 10 | IN THE REQ'D AREA, REMOVE CEILING SYSTEM & LIGHT FIXTURES INCLUSIVE OF ALL RELATED HANGERS, PERIMETER TRIM, ETC. - DISPOSE OF ALL ITEMS EXCEPT FOR ACOUSTIC CEILING TILES. STORE AND PROTECT TILES DURING ALL PHASES OF CONSTRUCTION - REUSE/INFILL ACT TILES IN EXIST CEILINGS AS NEEDED FOR NEW WORK - PREP FOR NEW CONSTRUCTION AND INSTALLATION OF NEW CEILING & LIGHTING SYSTEMS - SEE ARCHITECTURAL ROPS (A601) AND MEP DRAWINGS FOR FURTHER INFO |
| 11 | IN THE REQ'D AREA; REMOVE, STORE AND REINSTALL CEILING TILES UPON COMPLETION OF MEP WORK - PREP FOR INSTALLATION OF NEW LIGHTING IN REQ'D ROOMS - SEE ARCHITECTURAL ROPS (A601) AND MEP DRAWINGS FOR FURTHER INFO |
| 11A | IN THE DOUBLE HEIGHTED SPACE, REMOVE & DISPOSE OF EXISTING LIGHTING FIXTURES - REMOVE ACOUSTIC CEILING TILES IN PREP FOR INSTALLATION OF NEW LIGHTING - SEE ELECTRICAL DRAWINGS FOR FURTHER INFO |
| 12 | REMOVE & DISPOSE EXIST LIGHT FIXTURES IN THE GWB SOFFIT ABOVE - PREP FOR INSTALLATION OF NEW LIGHTING - DELUGE SPRINKLERS IN SOFFIT ARE TO REMAIN AS IS AND BE PROTECTED DURING ALL PHASES OF CONSTRUCTION - PATCH & MATCH FINISHES WITH ADJACENT FINISHES - SEE MEP DRAWINGS FOR FURTHER INFO |
| 13 | REMOVE PART OF EXIST GWB SOFFIT SYSTEM ABOVE - PROTECT THE EXIST. & ADJACENT SURFACES FROM DAMAGE DURING DEMO & NEW CONSTRUCTION - PREP FOR INSTALLATION OF NEW GWB CEILING - PATCH & MATCH TO ADJACENT FINISHED SURFACES |
| 14 | REMOVE & DISPOSE EXIST FLOOR FINISH - PREP FLOOR FOR NEW FLOOR FINISH - COORD. W/ NEW CONSTRUCTION |
| 15 | REMOVE & REPLACE ALL EXISTING FLOOR OUTLETS - SEE ELECTRICAL DRAWINGS FOR MORE INFO |
| 16 | REMOVE, STORE, AND REINSTALL COMPUTER STATION AND ALL RELATED EQUIPMENT IN A NEW LOCATION UPON COMPLETION OF WORK |
| 17 | RELOCATE EXISTING DELUGE SPRINKLER HEAD IN NEW 8FT CEILING UNDER MEZZANINE - SEE MEP DRAWINGS FOR MORE INFO - ALL OTHER DELUGE SPRINKLERS ARE TO REMAIN AS IS-TYP |
| 18 | REMOVE 2 PANELS OF HOLLOW METAL WINDOW ASSEMBLY AND PARTITION WALL BELOW - PROTECT THE EXIST. & ADJACENT SURFACES FROM DAMAGE DURING DEMO AND NEW CONSTRUCTION - SEE ARCHITECTURAL DRAWINGS FOR MORE INFO AND NEW CONSTRUCTION INSTALLATION |
| 19 | REMOVE OPERABLE PARTITION WALL AND ALL ASSOCIATED COMPONENTS - SEE CONSULTANT DRAWINGS FOR ANY ADDITIONAL INFO |
| 20 | UPON REMOVAL OF ADJACENT WALL AND PARTITION WALL, PREP COLUMN WRAP FOR NEW WORK - PATCH & MATCH FINISHES WITH ADJACENT FINISHES |



1 2ND FLOOR - DEMO PLAN
1/8" = 1'-0"

CHESTER ACADEMY STEM LAB ALTERATIONS

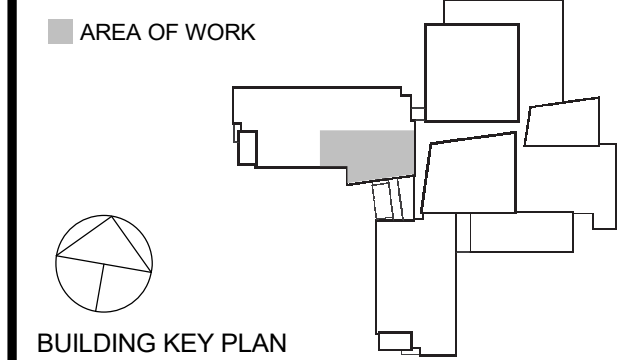
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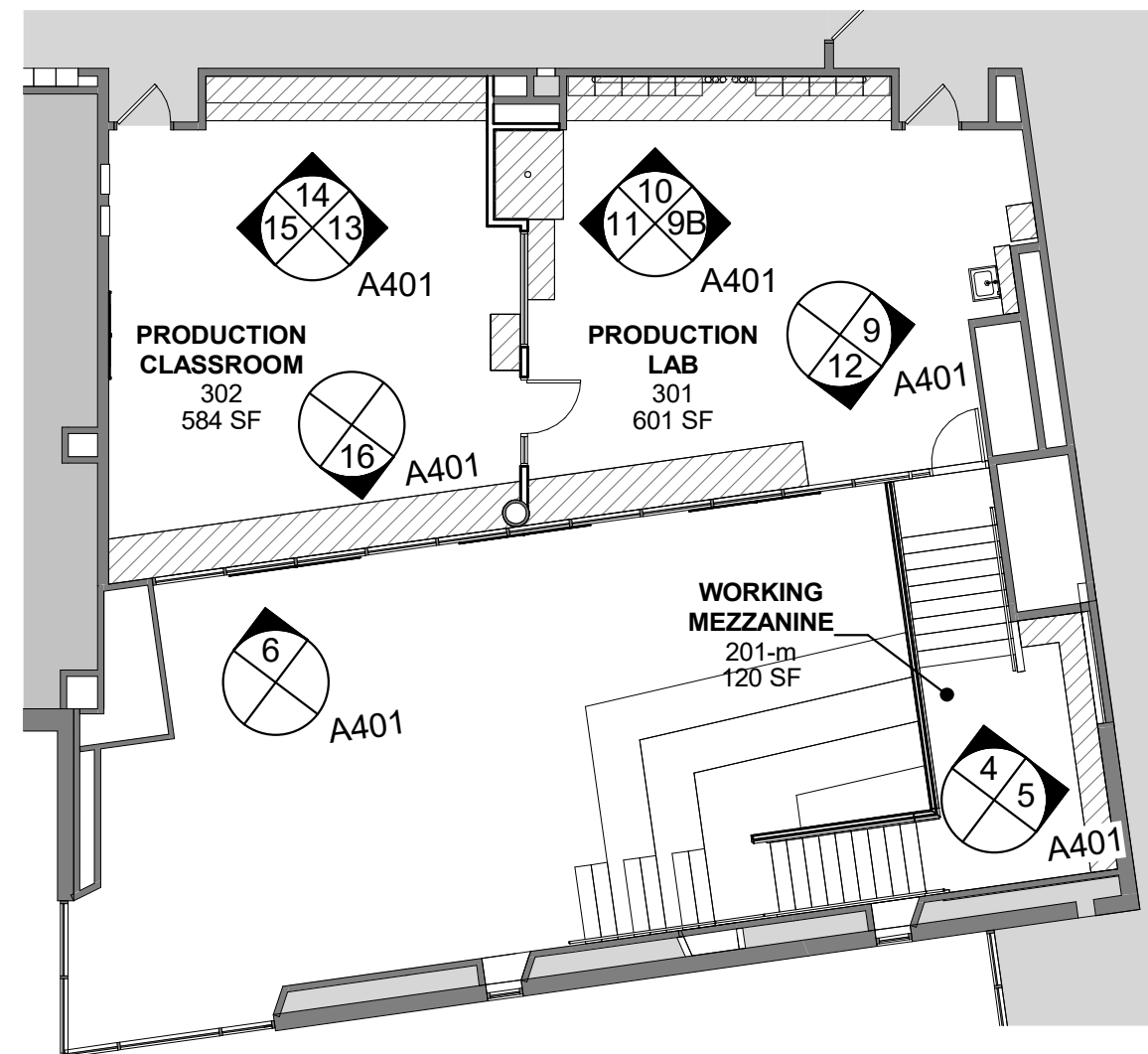
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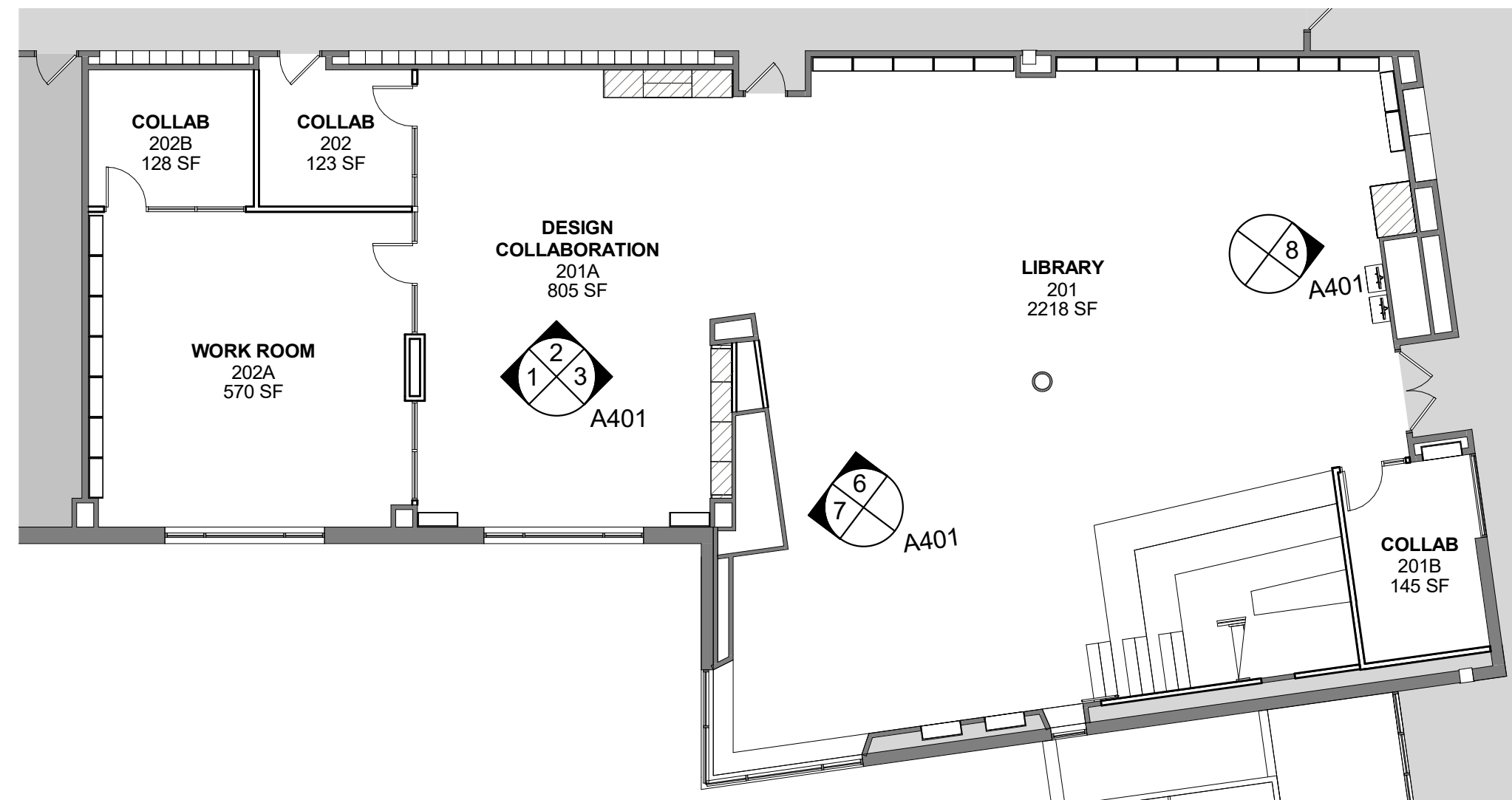
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| 3 | 11/02/2022 | ISSUE FOR BID |
| 1 | 05/25/2022 | NYSED - CONST. DOCS. |
| No. | Date | Issue |
| Sheet Title | | |

DEMOLITION PLANS

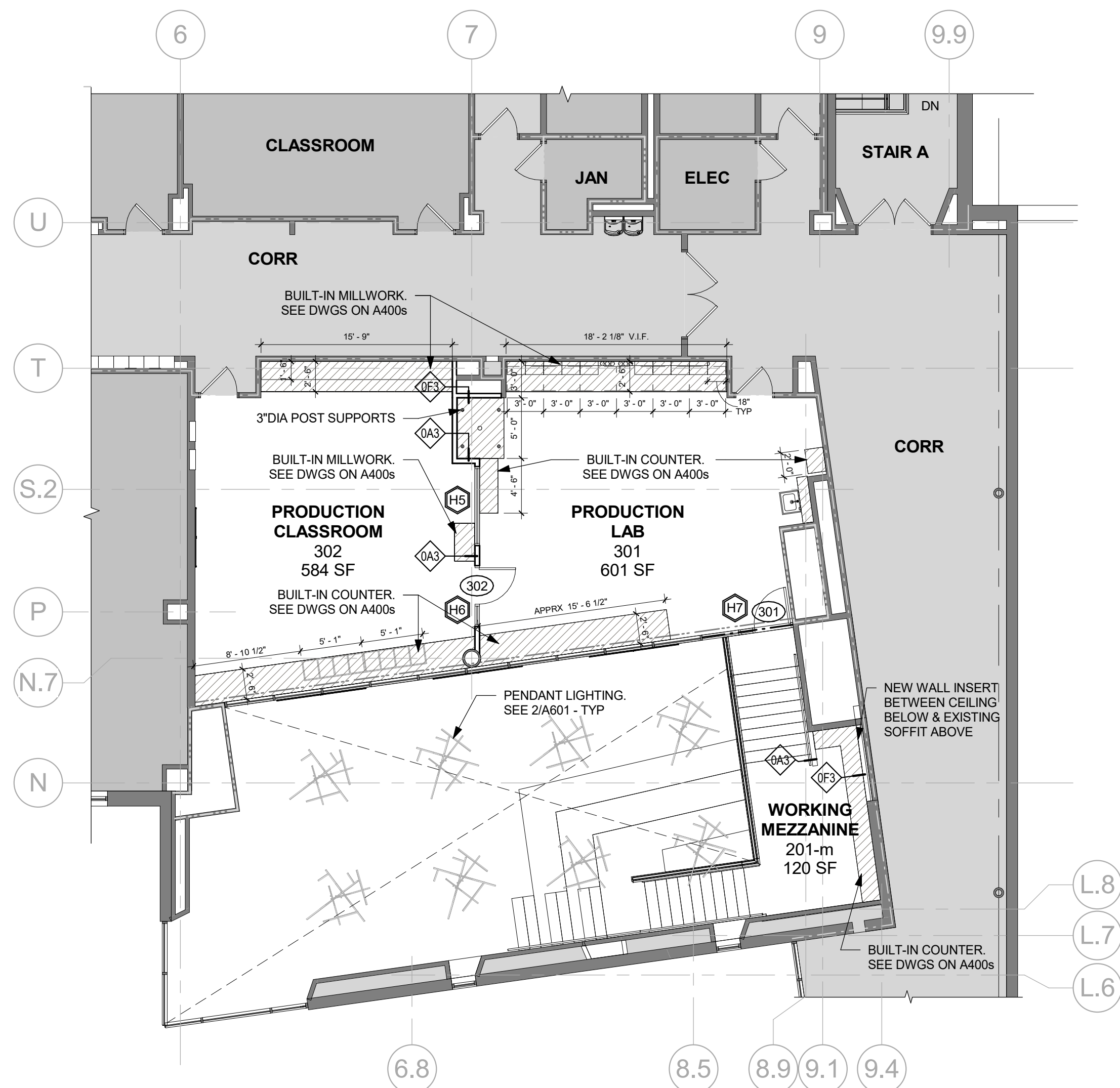
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| Sheet Number | | A101 | |



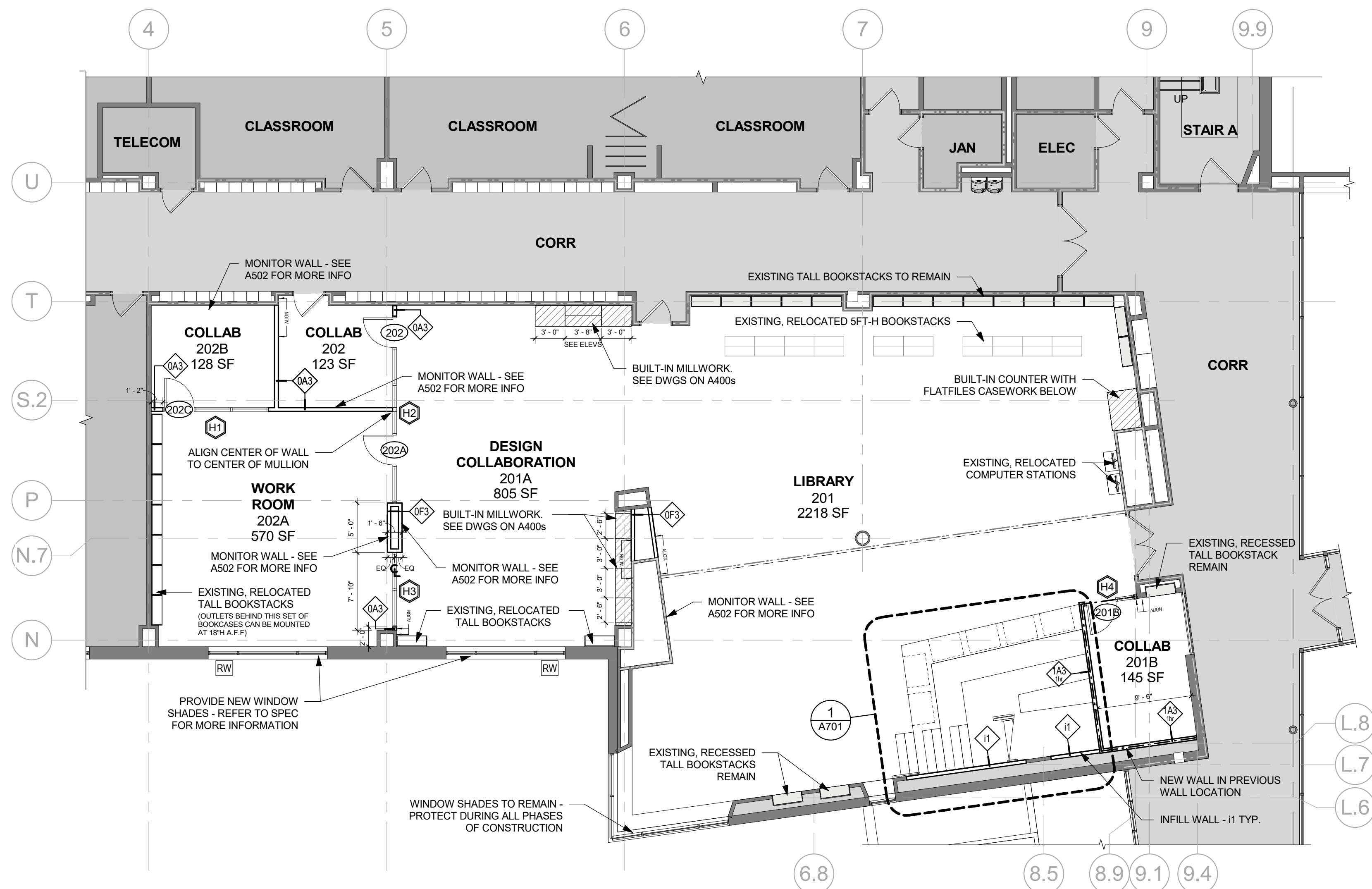
4 3RD FL - INT. ELEV KEY PLAN
3/32" = 1'-0"



3 2ND FL - INT. ELEV KEY PLAN
3/32" = 1'-0"



2 3RD FLOOR PLAN
1/8" = 1'-0"



1 2ND FLOOR PLAN
1/8" = 1'-0"

FLOOR PLAN GENERAL NOTES

- WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE.
- ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHELL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED.
- PROVIDE METAL STUD ANCHOR BRACKERS AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: SHELVING, OVERHEAD CABINETS, WALL MOUNTED AV EQUIPMENT, ETC.
- ALL PARTITIONS ARE DIMENSIONED FROM FACE OF FINISH UON. ALL DIMENSIONS MARKED "CLR" OR "CLR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL WALL FINISHES. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
- EXISTING STUD WALLS TO REMAIN TO BE FLOATED AS REQUIRED TO PROVIDE SMOOTH SUBSTRATE. PREPARE FOR INSTALLATION OF NEW FINISHES.
- PROVIDE ADJACENT PARTITION TYPE ABOVE ALL STOREFRONT SYSTEMS.
- LOCATE DOORS 4" FROM FACE OF ADJACENT WALL TO EDGE OF DOOR DRAPE, UON. (SEE DETAILS ON A901)
- ALL EXISTING BOOKSTACKS, THAT ARE TO REMAIN, MUST BE STORED IN ANOTHER ROOM INDICATED BY THE DIRECTOR OF FACILITIES. OTHERWISE, THE BOOKSTACKS ARE TO BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION.

FLOOR PLAN LEGEND

- EXISTING ROOM OR SPACE TO REMAIN. AREA NOT INCLUDED IN SCOPE OF WORK. SPECIFIC WORK MAY BE SHOWN ELSEWHERE, REFER TO M.E.P. DWGS.
- EXISTING PARTITION TO REMAIN
- NEW PARTITION
- EXISTING GLAZED OPENING
- NEW GLAZED OPENING
- FIRE-RESISTANCE RATED CONSTRUCTION:
 - EXISTING 1HR DELUGE SPRINKLER IN CEILING ABOVE
 - EXISTING 1HR PARTITION
 - EXISTING 2HR PARTITION
 - NEW 1HR PARTITION
 - DENOTE WALL TYPE AND RATING. SEE A402 FOR MORE INFO
- EXISTING DOOR TO REMAIN (U.N.O.)
- NEW DOOR & DOOR TAG
 - SEE A901 FOR DOOR SCHEDULE AND OTHER INFORMATION
 - SEE SPEC FOR HARDWARE INFO
- ALIGN FINISH FACE OF NEW WALL WITH FINISH FACE OF THE EXISTING, ADJ. WALL
- NEW MILLWORK. SEE A400s AND SPEC FOR MORE INFO
- WALL TAG SEE A901 FOR MORE INFORMATION
- HM FRAME WINDOW TAG SEE A901 FOR MORE INFORMATION
- NEW CONSTRUCTION KEYNOTE
- EXISTING RESCUE WINDOW (50"H x 30"W)

CHESTER ACADEMY STEM LAB ALTERATIONS

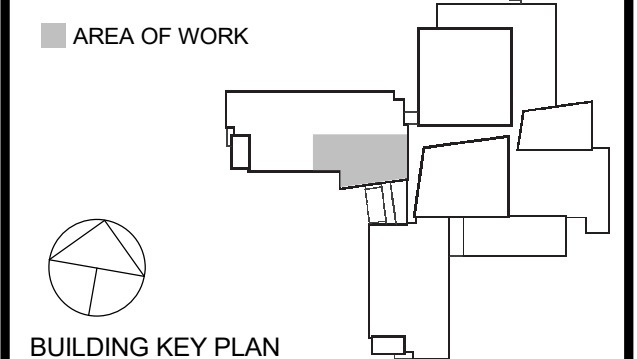
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44-02-01-02-0-009-006

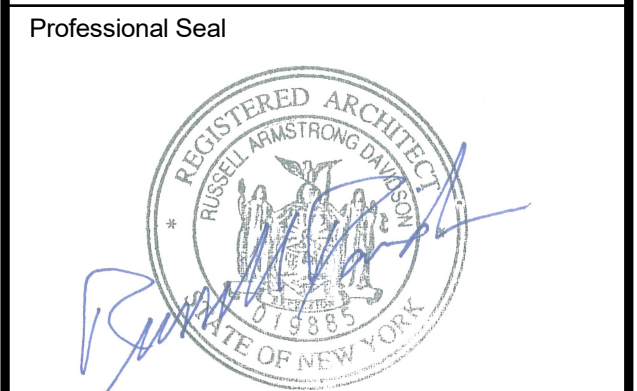
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| No. | Date | Issue |
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| 3 | 11/02/2022 | ISSUE FOR BID |
| 2 | 06/16/2022 | NYSED - ADDENDUM #1 |
| 1 | 05/25/2022 | NYSED - CONST. DOCS. |

AREA OF WORK FLOOR PLANS

| | | | |
|---------|-----------|-----------------|------------|
| Job No. | 2021-1080 | Date | 11/02/2022 |
| Scale | AS NOTED | Drawn / Checked | KG+D |

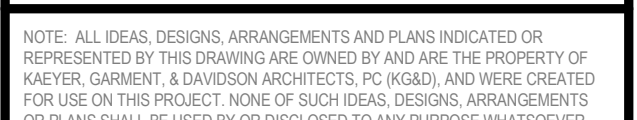
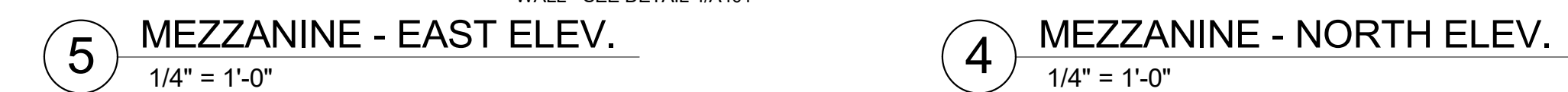
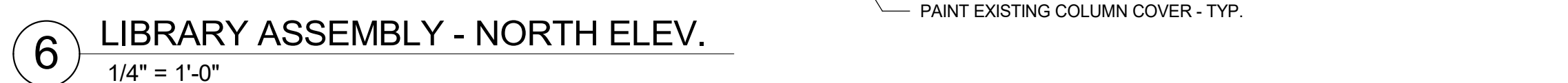
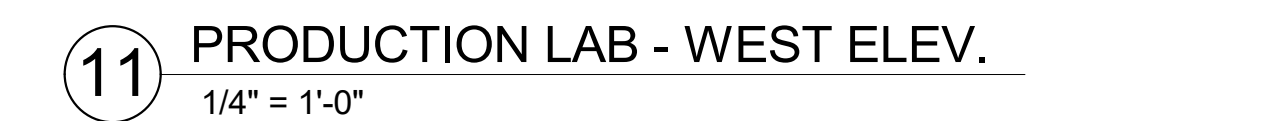
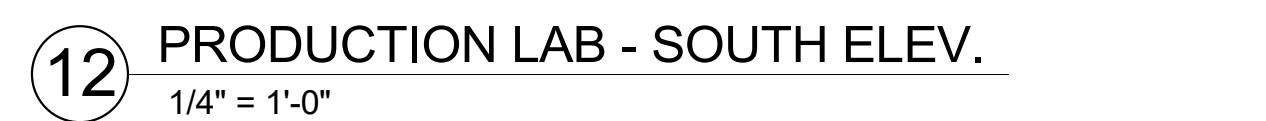
Sheet Number
A201

64 HAMBLETONIAN AVENUE
CHESTER, NY 10918

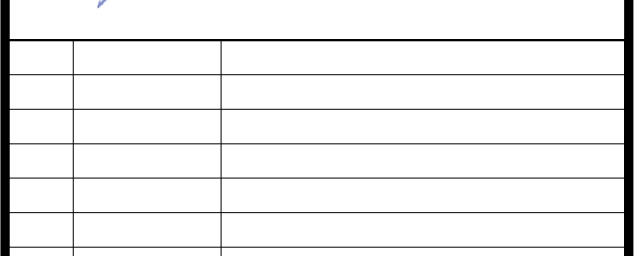
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Sheet Title

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| Sheet Number | |
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A401

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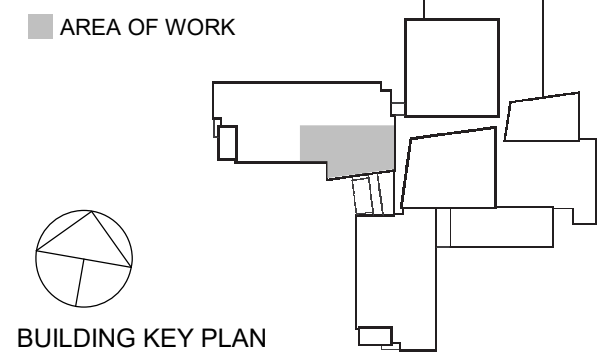
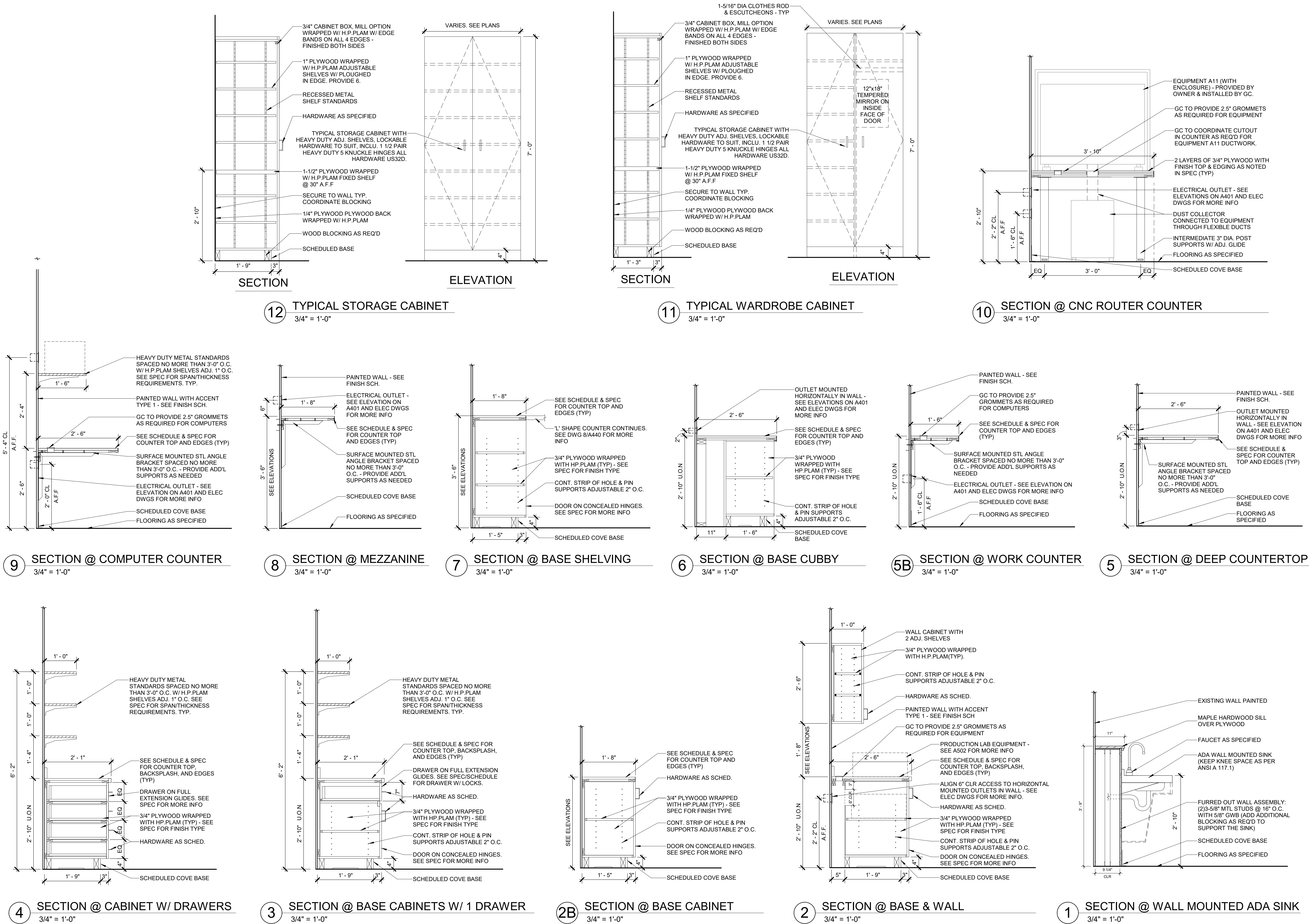
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MILLWORK
DETAILS

| | | | |
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| Job No. | 2021-1080 | Date | 11/02/2022 |
| Scale | AS NOTED | Drawn / Checked | KG+D |
| Sheet Number | | | |

A440

| SIGNAGE SCHEDULE | | | | | |
|------------------|----------------------|-----------|--|-------------------------------------|-----|
| ROOM # | LOCATION | SIGN TYPE | SIGN TEXT (TEXT TO BE CONFIRMED WITH OWNER) | DESCRIPTION | QTY |
| 201 | LIBRARY | M | 116 OCCUPANTS | SEE TYPE M DRAWING FOR MORE DETAILS | 2 |
| 201A | DESIGN COLLABORATION | P | (FULL TEXT TO BE DETERMINED) | SEE TYPE P DRAWING FOR MORE DETAILS | 1 |
| 301 | PRODUCTION LAB | E | EMERGENCY SHUT-OFF | SEE TYPE E DRAWING FOR MORE DETAILS | 3 |

| Finish Schedule | | | | | | | | | | | | | | | |
|-----------------|----------------------|-------------|------|------------|----------|-----------|----------|--------------|-----|--------------|-----|-----------|------------|------------|--|
| ROOM # | ROOM NAME | FLOOR | | NORTH WALL | | EAST WALL | | SOUTH WALL | | WEST WALL | | CEILING | | | Comments |
| | | FIN | BASE | MAT | FIN | MAT | FIN | MAT | FIN | MAT | FIN | MAT | FIN | HT | |
| 201 | LIBRARY | CPT1 | RB | EXIST | PTD & WC | EXIST/GWB | PTD | EXIST/GWB/WW | PTD | EXIST/GWB | PTD | EXIST/GWB | EXIST, PTD | EXIST/M.EX | SEE A401 FOR WC LOCATION & SEE A501 FOR ACCENT PAINT LOCATIONS |
| 201A | DESIGN COLLABORATION | CPT1 | RB | EXIST | PTD | EXIST | PTD | EXIST | PTD | EXIST/GWB/WW | PTD | EXIST | EXIST | EXIST | ACCENT PAINT TYPE 2 ON EAST WALL & TYPE 4 ON WEST WALL/MONITOR BUMP OUT |
| 201B | COLLAB | CPT3 | RB | EXIST/WW | PTD | EXIST | PTD | GWB | WPT | GWB | PTD | ACT | FF | PTD | ACCENT PAINT TYPE 4 ON WEST WALL/MONITOR WALL |
| 202 | COLLAB | CPT3 | RB | EXIST | PTD | GWB/WW | PTD | GWB | PTD | EXIST/GWB | WPT | ACT/GWB | FF/PTD | FF | SEE RCPs |
| 202A | WORK ROOM | CPT2 + CPT3 | RB | GWB/WW | PTD | GWB/WW | PTD | EXIST | PTD | EXIST | PTD | ACT | FF | PTD | ACCENT PAINT TYPE 4 ON EAST WALL/MONITOR BUMP OUT |
| 202B | COLLAB | CPT3 | RB | EXIST | PTD | GWB | WPT | GWB/WW | PTD | EXIST | PTD | ACT/GWB | FF/PTD | FF/PTD | SEE RCPs |
| 201-m | WORKING MEZZANINE | CPT1 + CPT3 | RB | EXIST/WW | WC | EXIST/GWB | WC & PTD | EXIST | PTD | - | - | EXIST | EXIST | EXIST | SEE A401 FOR WC LOCATION & SEE A501 FOR ACCENT PAINT LOCATIONS |
| 301 | PRODUCTION LAB | LVT1 | RB | EXIST/GWB | PTD | EXIST | PTD | EXIST/WW | PTD | EXIST/GWB/WW | PTD | EXIST/GWB | EXIST, PTD | EXIST/M.EX | ACCENT PAINT TYPE 1 BEHIND CABINETS AT NORTH WALL |
| 302 | PRODUCTION CLASSROOM | LVT1 | RB | EXIST | PTD | GWB/WW | PTD | EXIST/WW | PTD | EXIST | PTD | EXIST/GWB | EXIST, PTD | EXIST/M.EX | ACCENT PAINT TYPE 1 BEHIND COUNTER & SHELVES AT NORTH WALL & ACCENT PAINT TYPE 4 ON WEST WALL/MONITOR WALL |

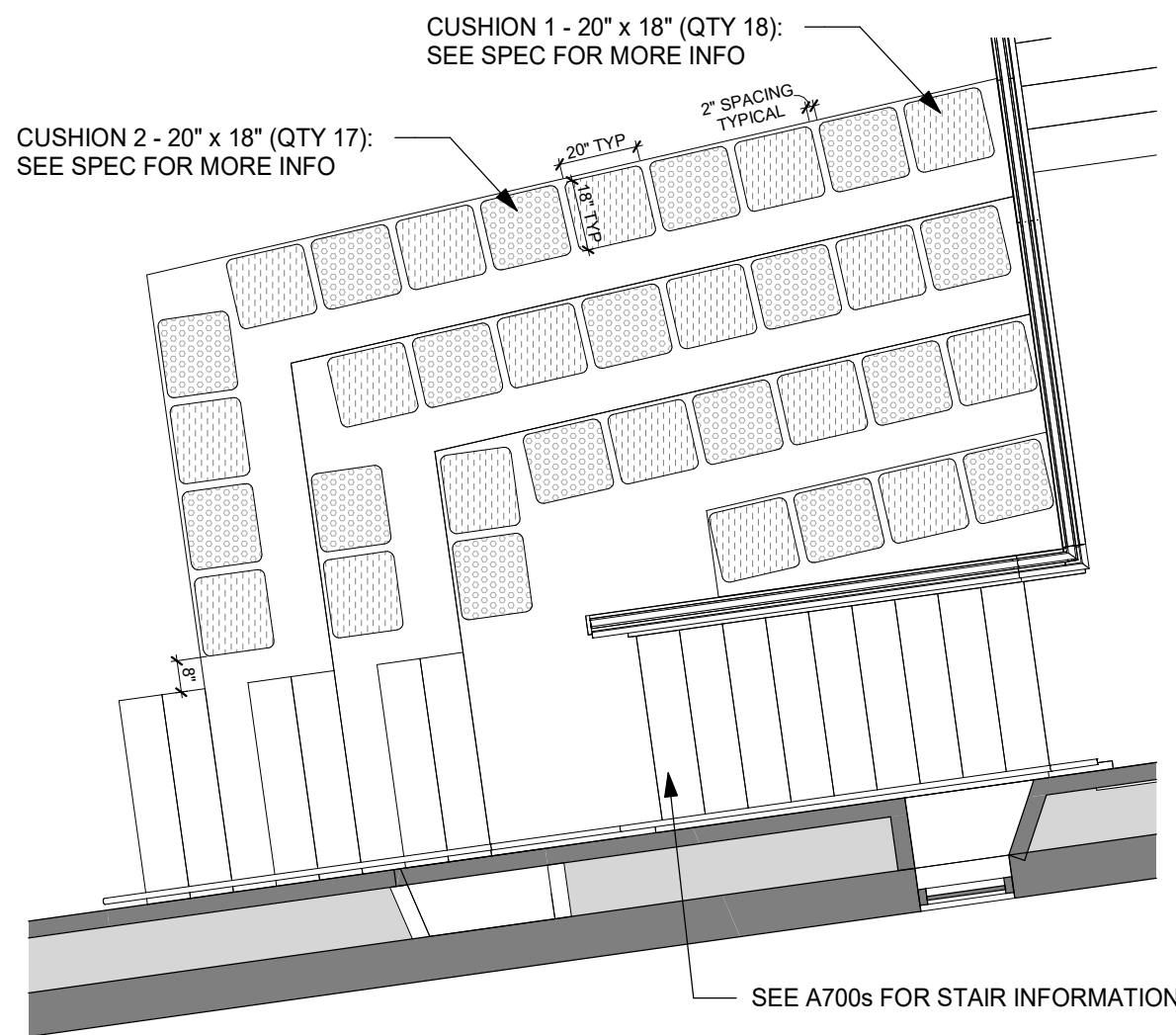
FINISH SCHEDULE ABBREVIATION KEY:

| | | | |
|-------|-----------------------|-----|------------------|
| ACT | ACOUSTIC CEILING TILE | PTD | PAINT |
| CPT* | CARPET | RB | RUBBER BASE |
| EXIST | EXISTING MATERIAL | WC | WALLCOVERING |
| GWB | GYPSUM WALL BOARD | WW | WINDOW WALL |
| LVT* | LUXURY VINYL TILE | WPT | WHITEBOARD PAINT |
| M. EX | MATCH EXISTING | | |

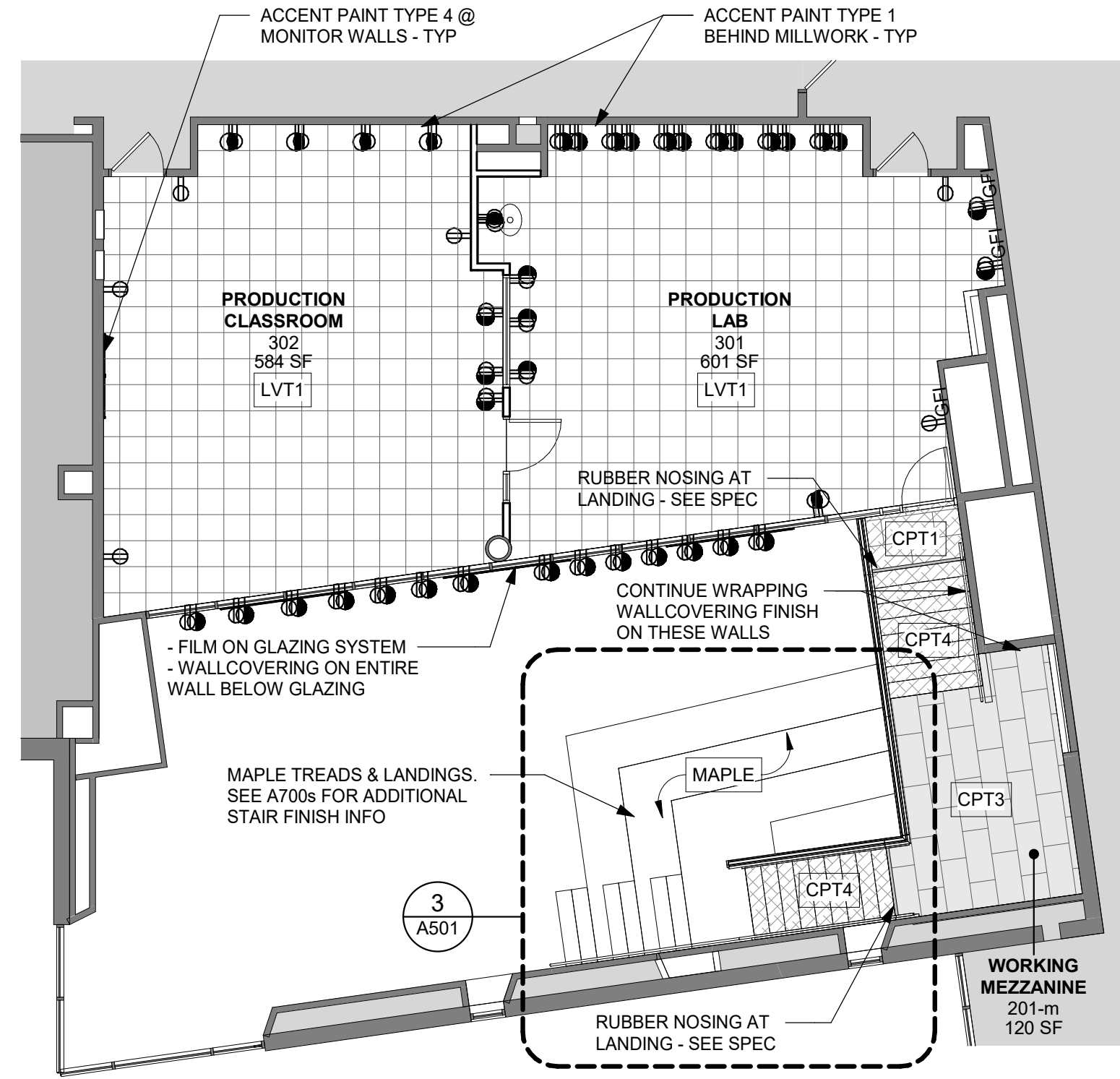
(* NUMBER INDICATES STYLE: REFER TO SPEC)

FLOOR FINISH LEGEND:

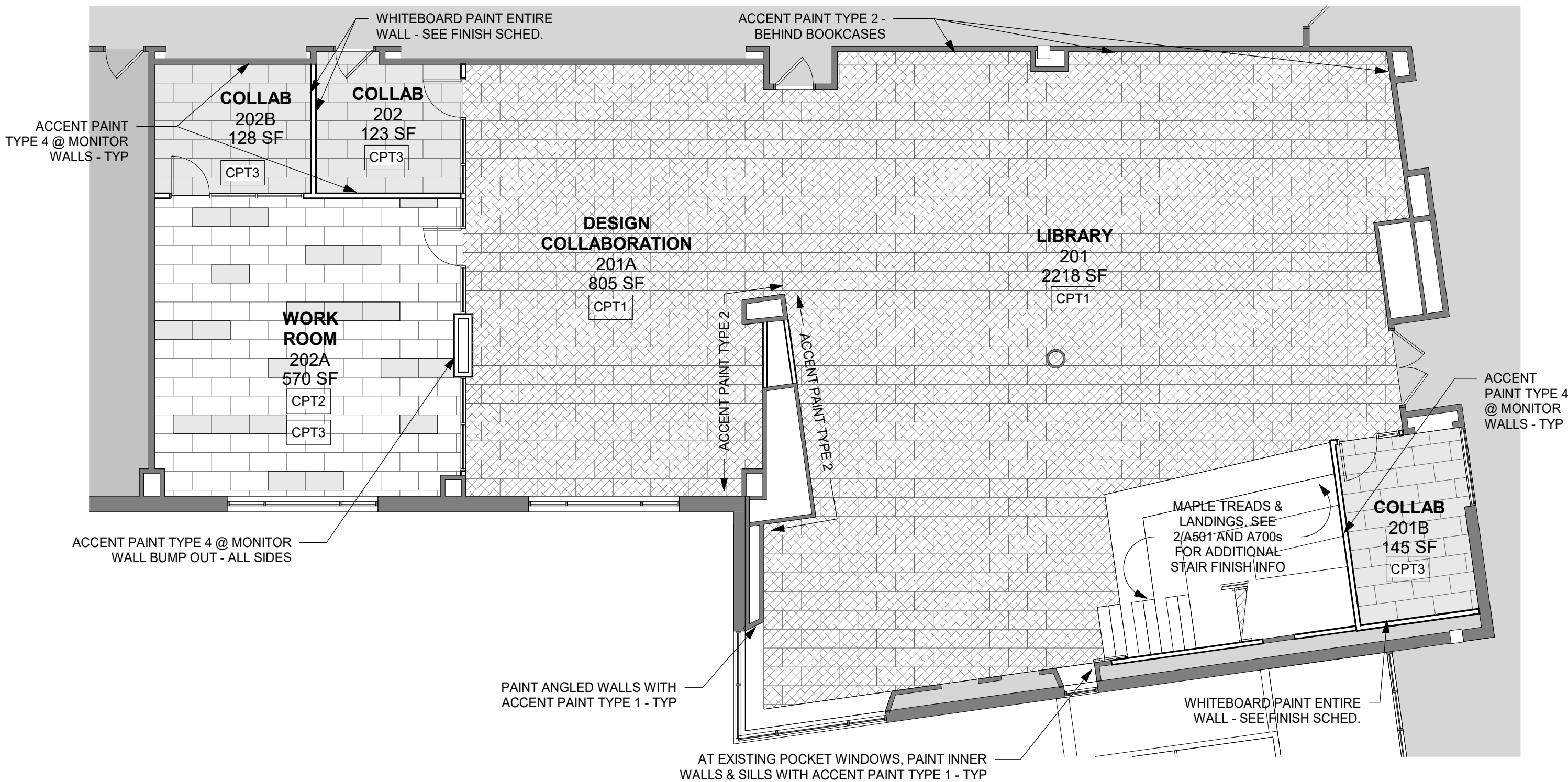
| | | | |
|--|------|--|-------------------|
| | CPT1 | | CPT4 (STAIR ONLY) |
| | CPT2 | | LVT1 |
| | CPT3 | | |



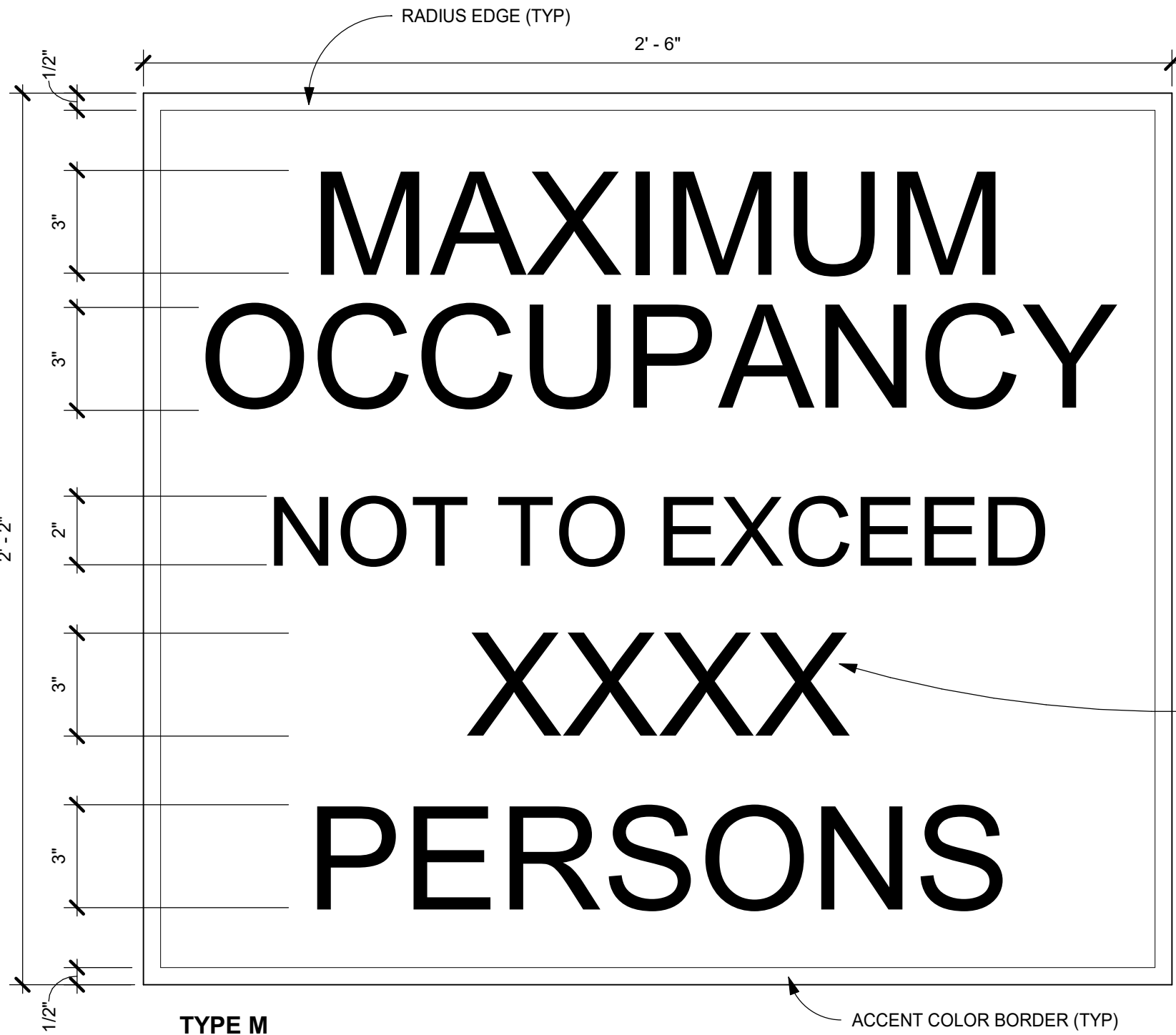
3 CUSHION LAYOUT
1/4" = 1'-0"



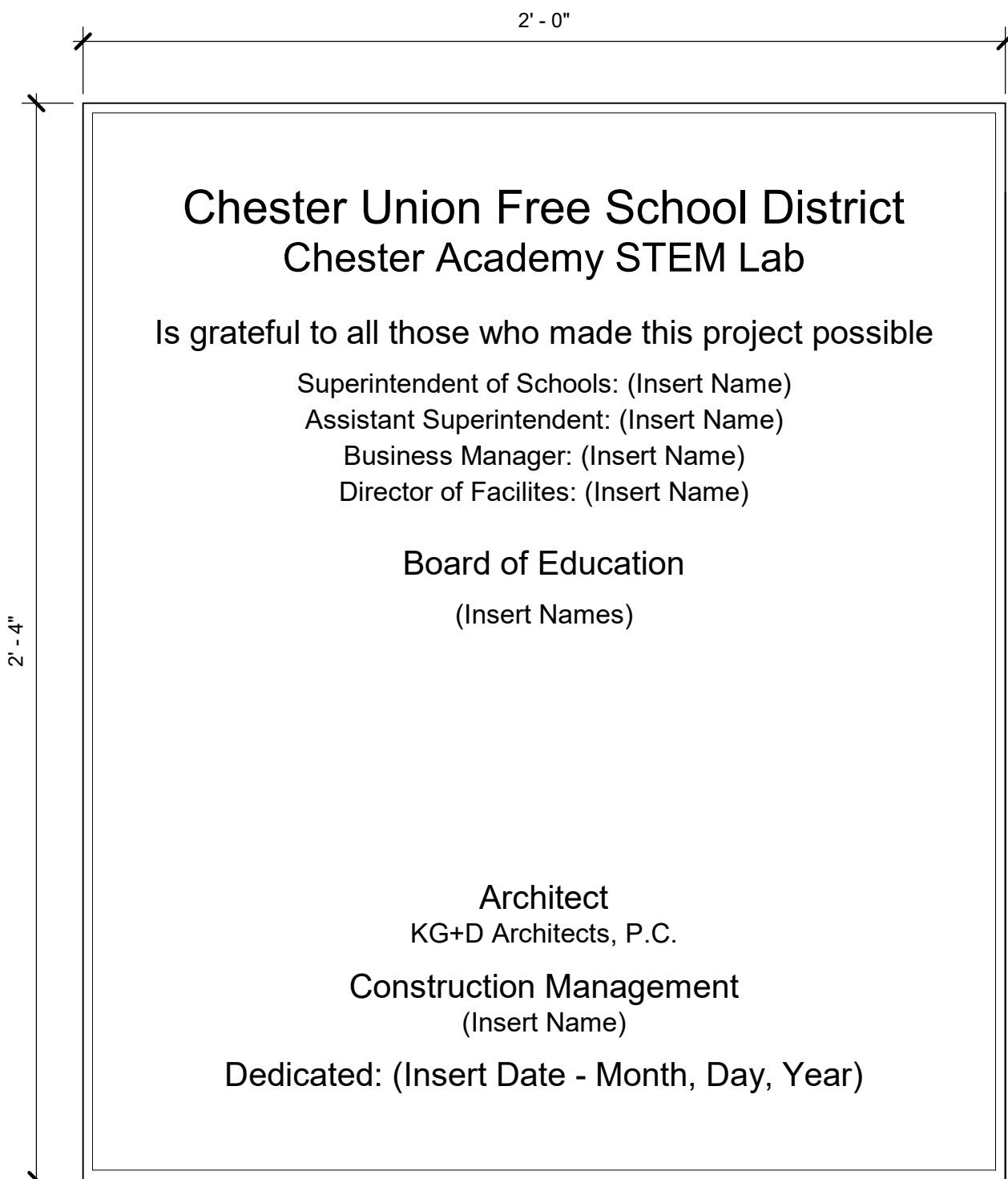
2 3RD FLOOR - FINISH PLANS
1/8" = 1'-0"



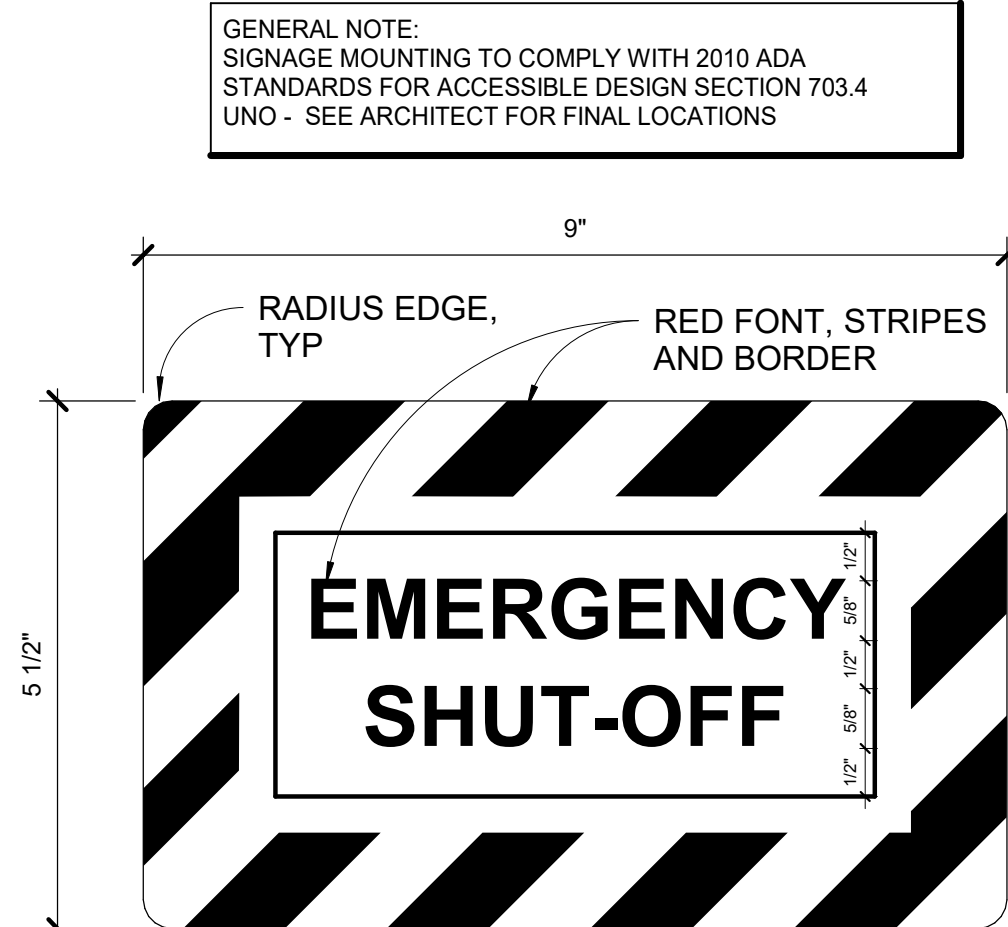
1 2ND FLOOR - FINISH PLANS
1/8" = 1'-0"



TYPE M
OCCUPANCY SIGN SCALE: 3" = 1'-0"
SEE SPECIFICATIONS FOR DETAILS



TYPE P
DEDICATION PLAQUE SCALE: 3" = 1'-0"
INTERIOR DEDICATION SIGN CAST BRONZE PLAQUE - PROVIDE ONE SIGN (LOCATION TO BE DETERMINED)



TYPE E
EMERGENCY SWITCH SIGN SCALE: 6" = 1'-0"

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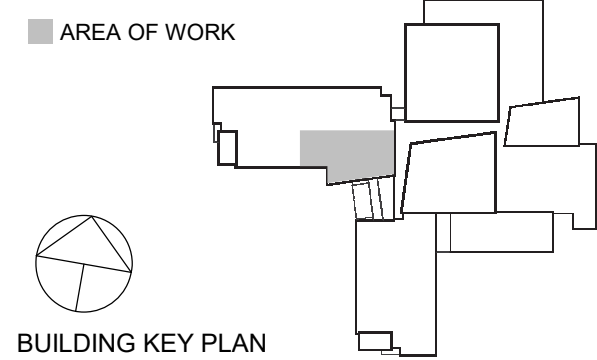
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FINISH PLANS
AND SCHEDULES
& SIGNAGE
INFORMATION

| | | | |
|--------------|-----------|-----------------|------------|
| Job No. | 2021-1080 | Date | 11/02/2022 |
| Scale | AS NOTED | Drawn / Checked | KG+D |
| Sheet Number | A501 | | |

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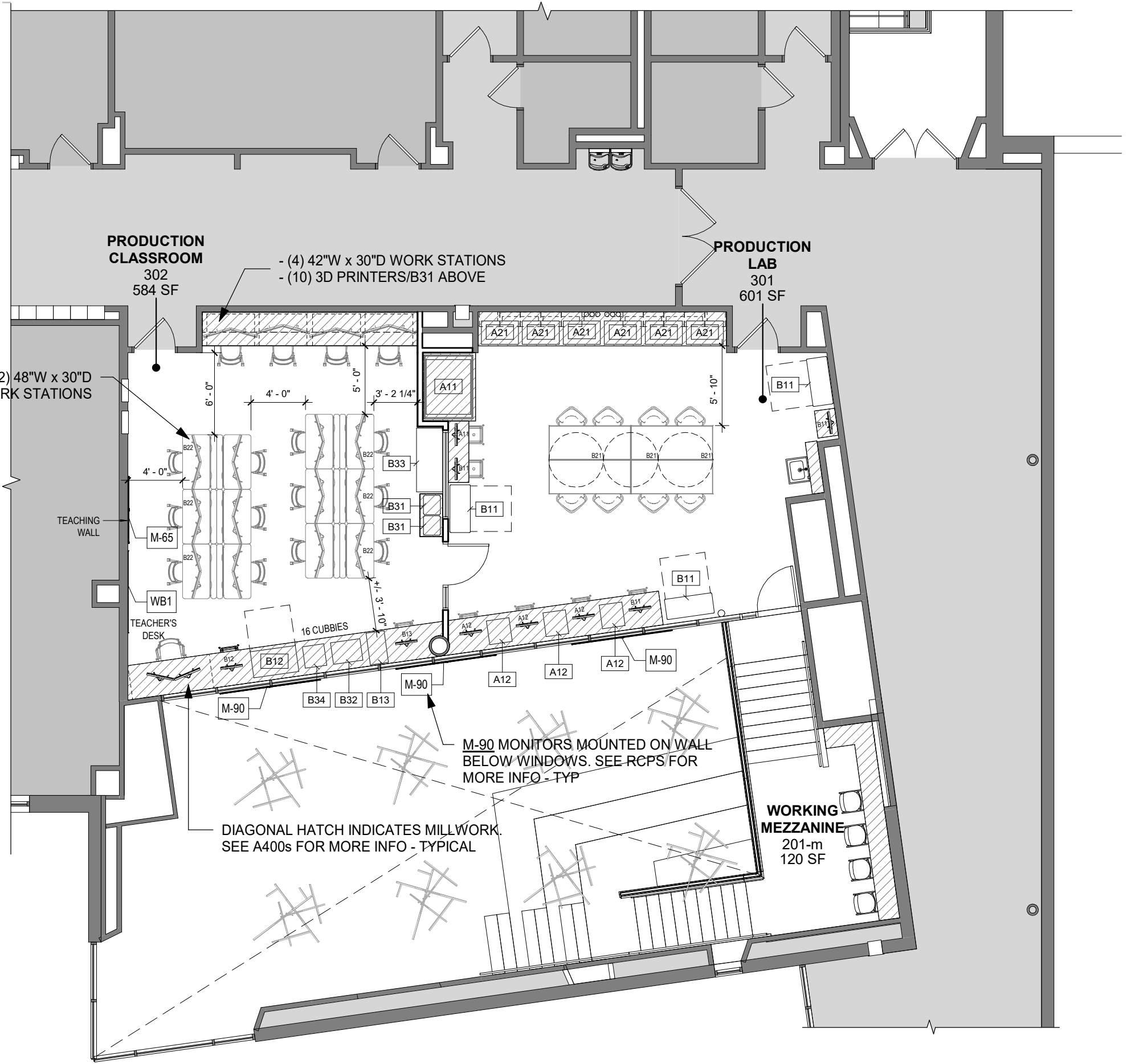
NY SED PROJECT CONTROL NO.
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CONSTRUCTION
DOCUMENTS

PRODUCTION STUDIO EQUIPMENT

| Equip. Tag | QTY provided | Equipment Type | Vendor and Model | Dimensions in Drawings (Inches WxDxH) |
|------------|--------------|------------------------------|---|--|
| A-11 | 1 | Counter CNC Router | Shopbot - Desktop MAX CNC Router | 56 x 43 x 38 - invasion enclosure |
| | 1 | Dust Collector | Shopbot - Fein 9-20-28 Turbo II Vacuum/Dust Extractor | 15.75 x 23 x 21.75 - below counter |
| A-12 | 3 | Counter CNC Milling Machine | Bantam Tools - CNC Milling Machine | 20 x2 1 x 20 |
| A-21 | 6 | Counter Laser Cutter | Full Spectrum Laser - Muse 3D-45W Laser Cutter | 32.5 x 20.5 x 8.5 |
| | 6 | Coolbox | Full Spectrum Laser - Muse Coolbox V2 | 12 x 20.5 x 8.5 - below (in cabinet) |
| B-11 | 3 | Standup Vinyl Cutter | US Cutter - SAC720IIARM - Titan3 Vinyl Cutter 28" | 42 x 18 x 48 |
| B-12 | 1 | Counter Vinyl Printer/Cutter | Roland - VersaSTUDIO BN-20 Vinyl Printer/Cutter | 40 x 23 x 12 |
| B-13 | 1 | Counter TShirt Printer | Roland - VersaSTUDIO BT-12 Direct-to-Garment Printer | 16 x 28 x 24 |
| B-21 | 3 (storage) | 3D Scanner with Turntable | Afinia - EinScan-SE (Elite) 3D Scanner with Turntable | 22 x 9 x 9 - storage |
| B-22 | 6 (storage) | Oculus Headset | Oculus - Quest2 Advanced All-in-One VR Headset 256GB (carrying case & link cable kit) | 18 x 18 x 12 - storage |
| B-31 | 12 | Counter 3D Printer | Makerbot - Sketch 3D Printer | 17 x 15 x 12 (10 on shelf above workstations in room 302, 2 on counter by item B33) |
| B-32 | 1 | Counter Flatbed Scanner | Epson - Expression 12000XL Scanner | 26 x 29 x 9 |
| B-33 | 1 | Standup Plotter | HP - DesignJet T730 Wireless 36" Plotter | 56 x 23 x 46 |
| B-34 | 1 | Counter Printer | HP - LaserJet Enterprise M607 Printer | 19 x 19 x 24 |

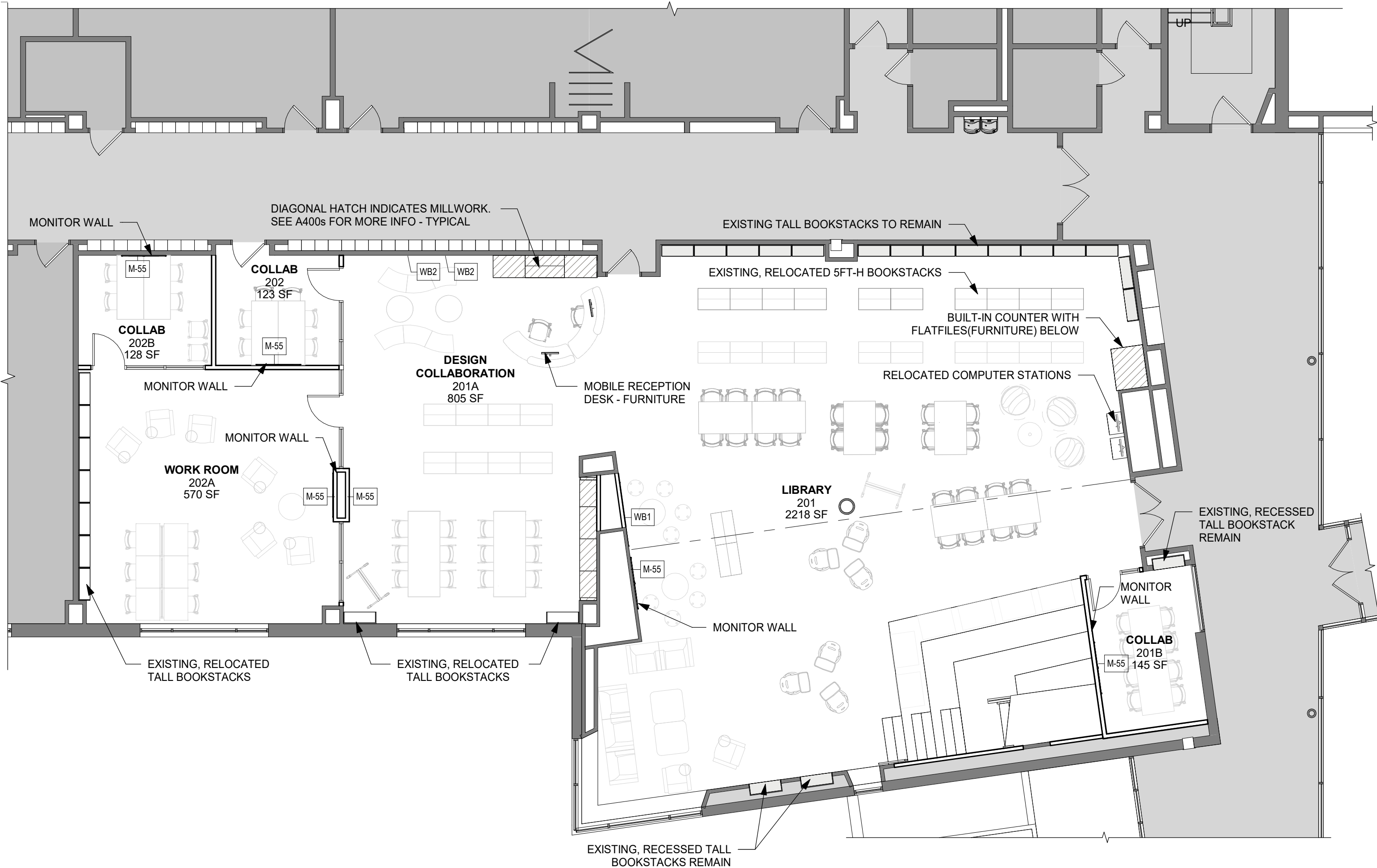
NOTE:
- ALL EQUIPMENT, BUT THE ITEM NOTED BELOW, IS SUPPLIED BY OWNER AND INSTALLED BY GC. FOR ADDITIONAL NOTES, SEE MEP DRAWINGS.
- GC IS TO PROVIDE & INSTALL THE DUST COLLECTOR. GC TO PROVIDE AN ADAPTER FROM SHOP VAC TO 4" DUCT - SEE MEP DRAWINGS FOR MORE INFORMATION.



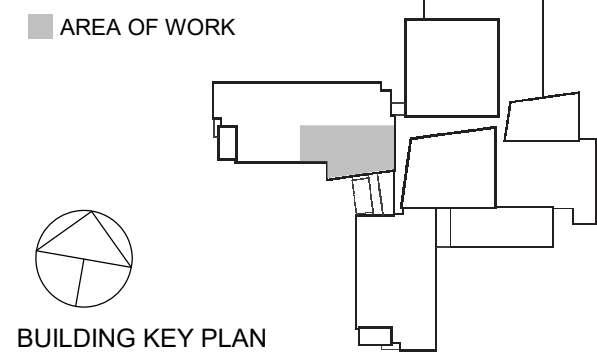
2 3RD FLOOR EQUIPMENT PLAN
1/8" = 1'-0" FURNITURE N.I.C.

| WHITEBOARD AND MONITOR SCHEDULE | | | | |
|---------------------------------|-------|-----|--------------------------------|---|
| ITEM | TAG | QTY | LOCATION | COMMENTS |
| 72"W x 48"H MAGNETIC WHITEBOARD | WB1 | 2 | CLASSROOM AND LIBRARY ASSEMBLY | |
| 48"W x 72"H MAGNETIC WHITEBOARD | WB2 | 2 | DESIGN COLLABORATION | GC TO COORDINATE WITH ARCHITECT ON FINAL LOCATION |
| 55" MONITOR | MT-55 | 6 | | |
| 65" MONITOR | MT-65 | 1 | CLASSROOM | |
| 90" MONITOR | MT-90 | 3 | LIBRARY ASSEMBLY (SEE 6/A401) | COORDINATE MONITOR W/ EXIST. LINEAR MECH. LOUVER |

GENERAL NOTES
- ALL MONITORS & ARE SUPPLIED BY OWNER
- GC TO PROVIDE ADDITIONAL BLOCKING AS REQ'D FOR MONITORS
- GC TO COORDINATE AV EQUIPMENT INSTALL WITH OWNERS
- MT-90 MONITORS TO BE ON ADJUSTABLE TILTING BRACKET PROVIDED BY THE OWNER



1 2ND FLOOR EQUIPMENT PLAN
1/8" = 1'-0" FURNITURE N.I.C.



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Sheet Title
FURNITURE AND
EQUIPMENT
PLANS &
SCHEDULES

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| Job No. | 2021-1080 | Date | 11/02/2022 |
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| Sheet Number | A502 | | |

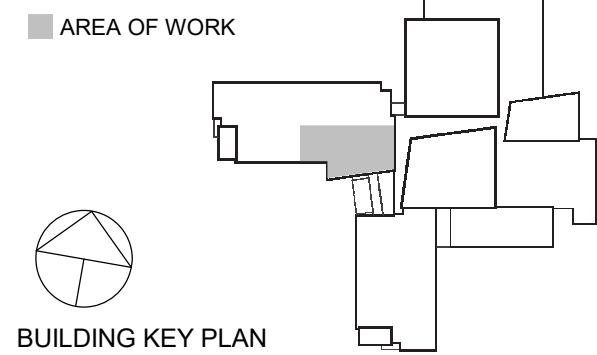
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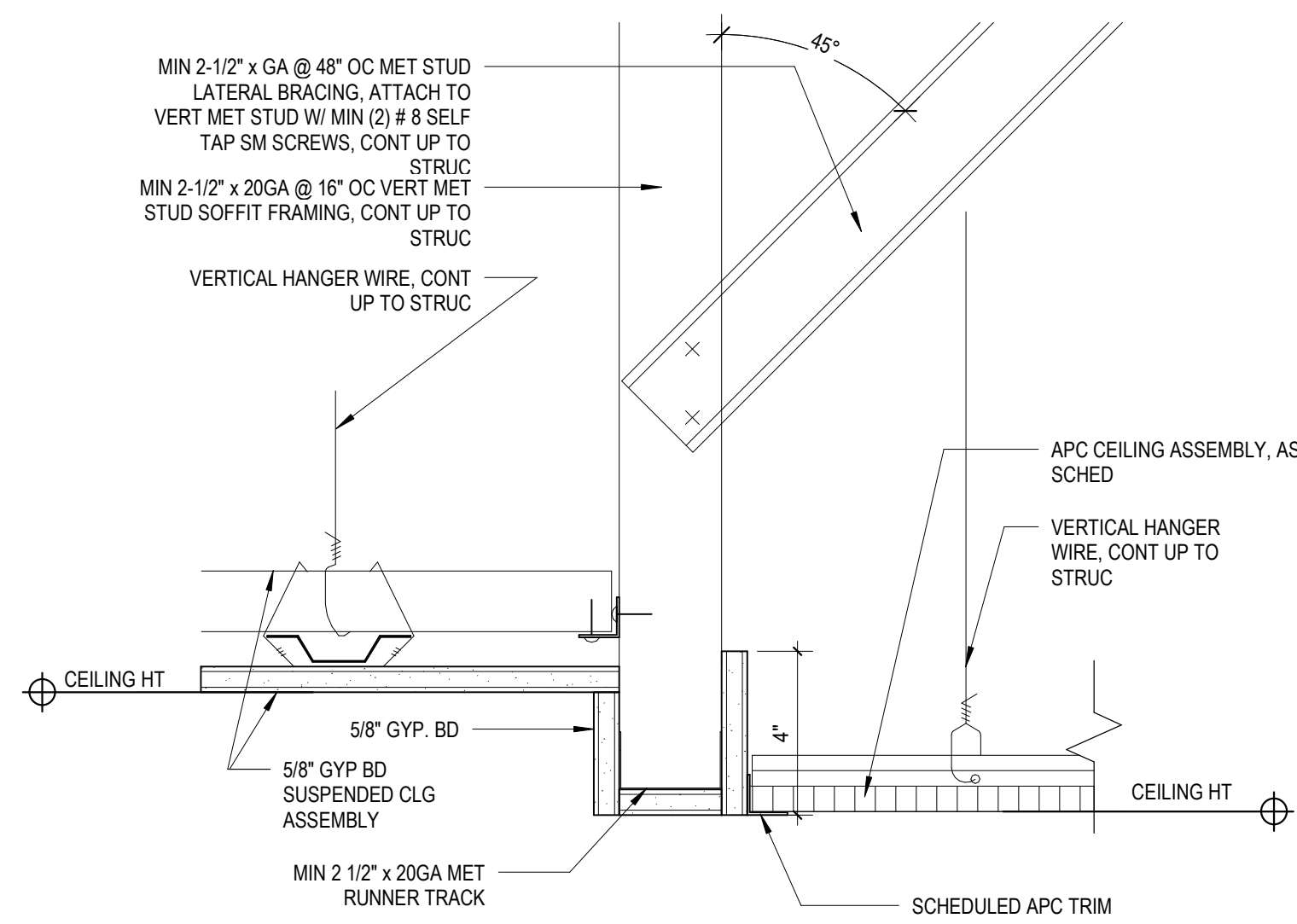
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| No. | Date | Issue |

AREA OF WORK
REFLECTED
CEILING PLAN

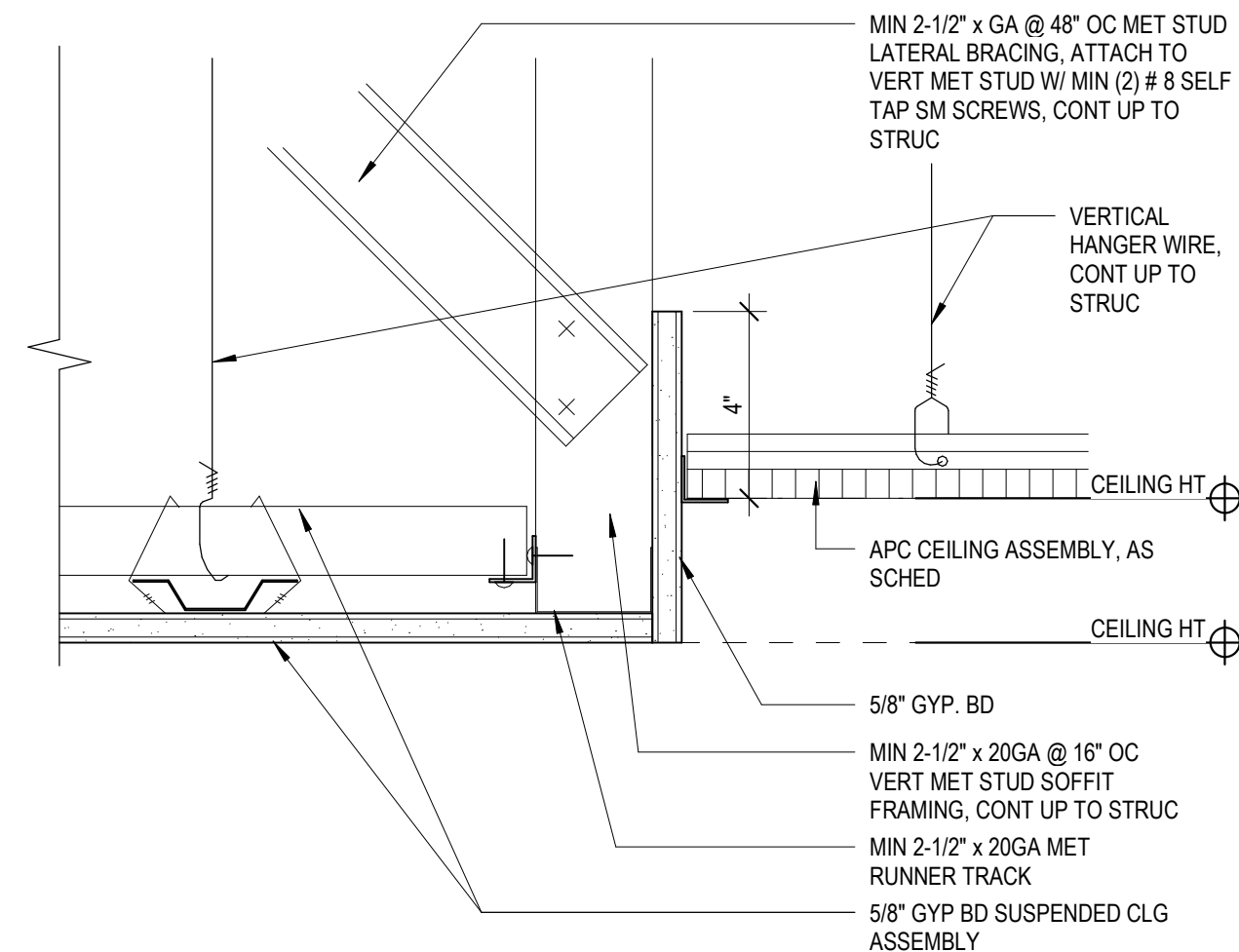
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| Sheet Number | A601 | | |

CEILING NOTES

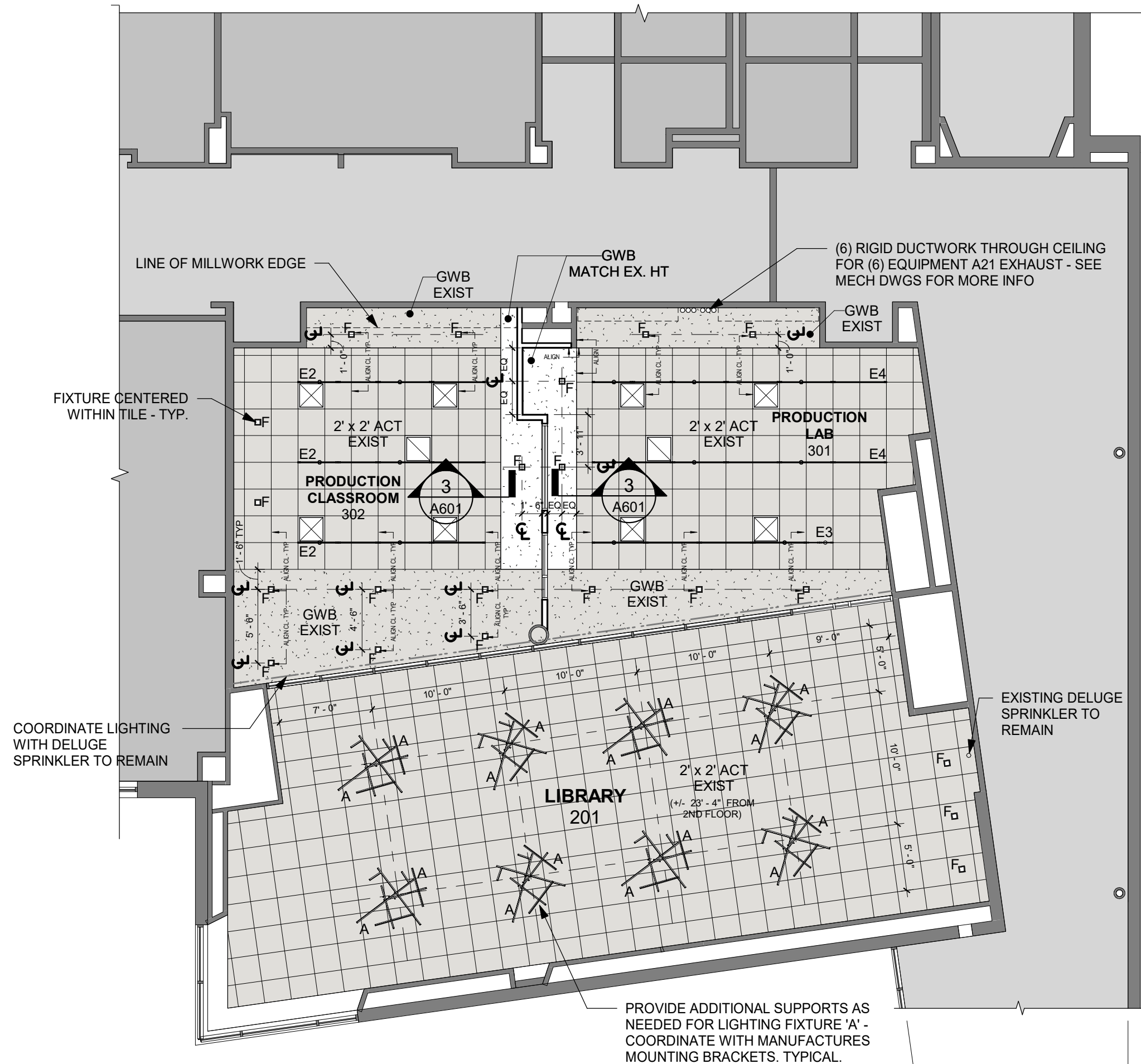
- 1 DENOTES AREA OF NO ARCHITECTURAL WORK, U.O.N. - SEE M.E.P. DWGS.
- 2 CEILINGS GRIDS ARE TO BE CENTERED IN ROOM. ALL CEILING FIXTURES, INCLUDING SMOKE DETECTORS, HVAC REGISTERS, ETC. ARE TO BE CENTERED IN CEILING TILES.
- 3 SEE ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE
- 4 SEE DWG. A501 FOR FINISH SCHEDULE
- 5 CEILING HEIGHTS SHOWN IN RCPs, SECTIONS, & DETAILS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ON SCHEDULES
- 6 DENOTES NEW CEILING SYSTEMS
- 7 DENOTES EXISTING CEILING SYSTEMS - ENTIRE ACT CEILING SYSTEM TO BE STORED DURING CONSTRUCTION & REINSTALLED UPON COMPLETION OF MEP WORK
- 8 ALIGN CEILING EDGE WITH FINISH FACE OF ADJACENT WALL
- 9 DENOTES SUPPLY REGISTERS - SEE MEP DWGS
- 10 DENOTES RETURN REGISTERS - SEE MEP DWGS



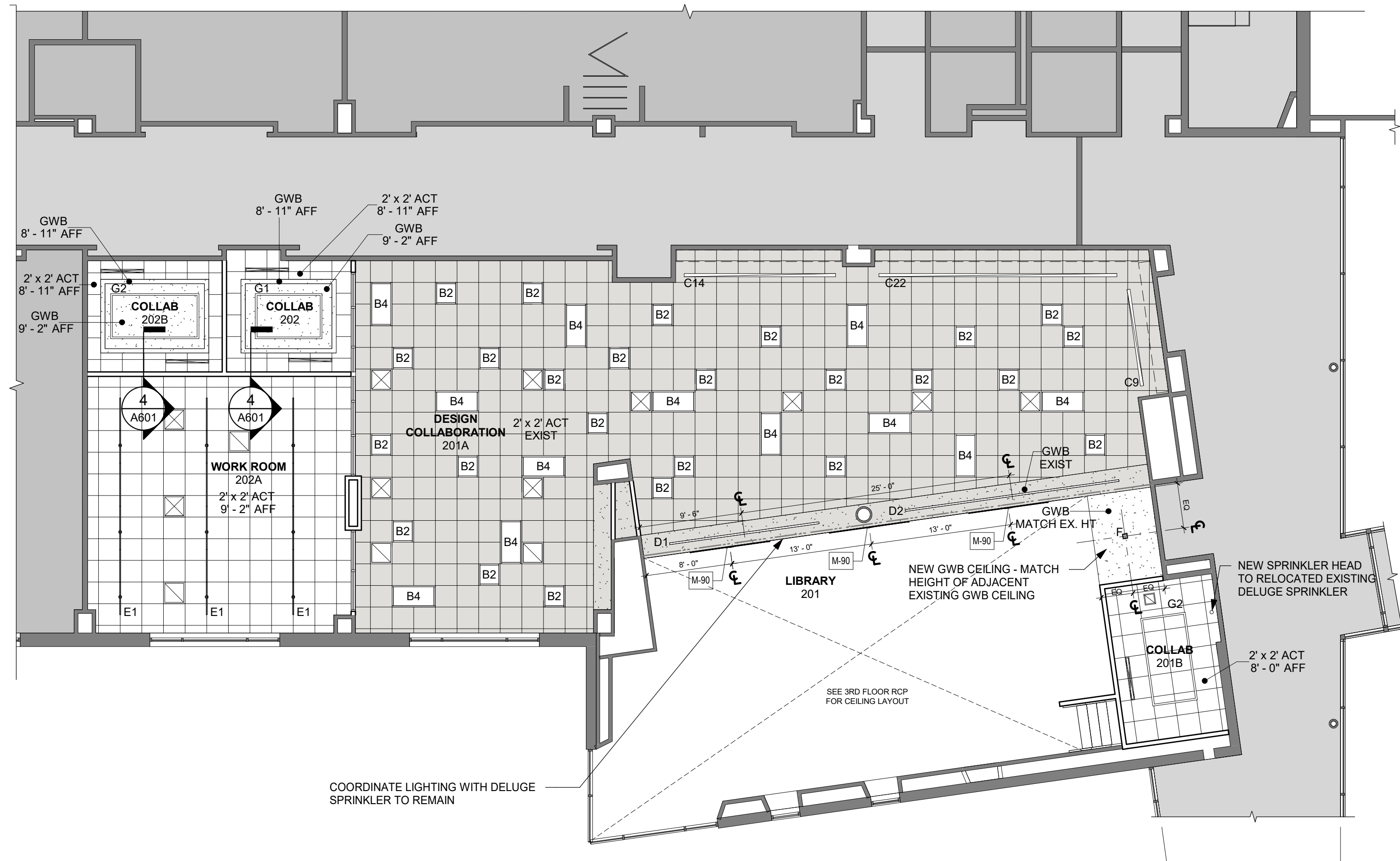
4 CEILING DETAIL AT SOFFIT
3" = 1'-0"



3 CEILING DETAIL AT PERIMETER
3" = 1'-0"



2 3RD FLOOR RCP
1/8" = 1'-0"



1 2ND FLOOR RCP
1/8" = 1'-0"

CHESTER ACADEMY
STEM LAB
ALTERATIONS

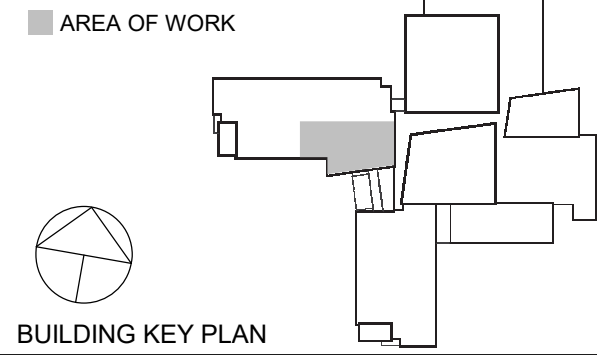
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SCHOOL DISTRICT

64 HAMBLETONIAN AVENUE
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285 MAIN STREET MOUNT KISCO . NEW YORK . 10549
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44-02-01-02-0-009-006

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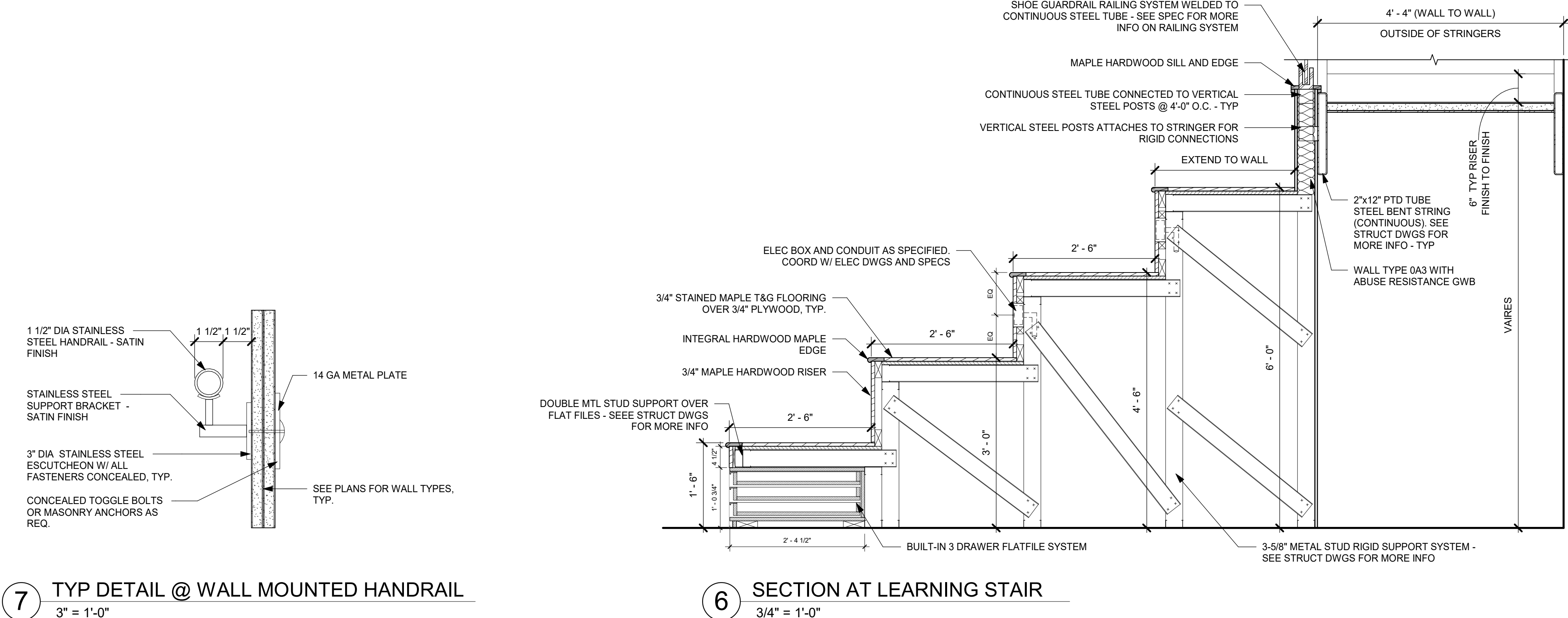


| No. | Date | Issue |
|-----|------------|----------------------|
| 3 | 11/02/2022 | ISSUE FOR BID |
| 2 | 06/16/2022 | NYSED - ADDENDUM #1 |
| 1 | 05/25/2022 | NYSED - CONST. DOCS. |

Sheet Title

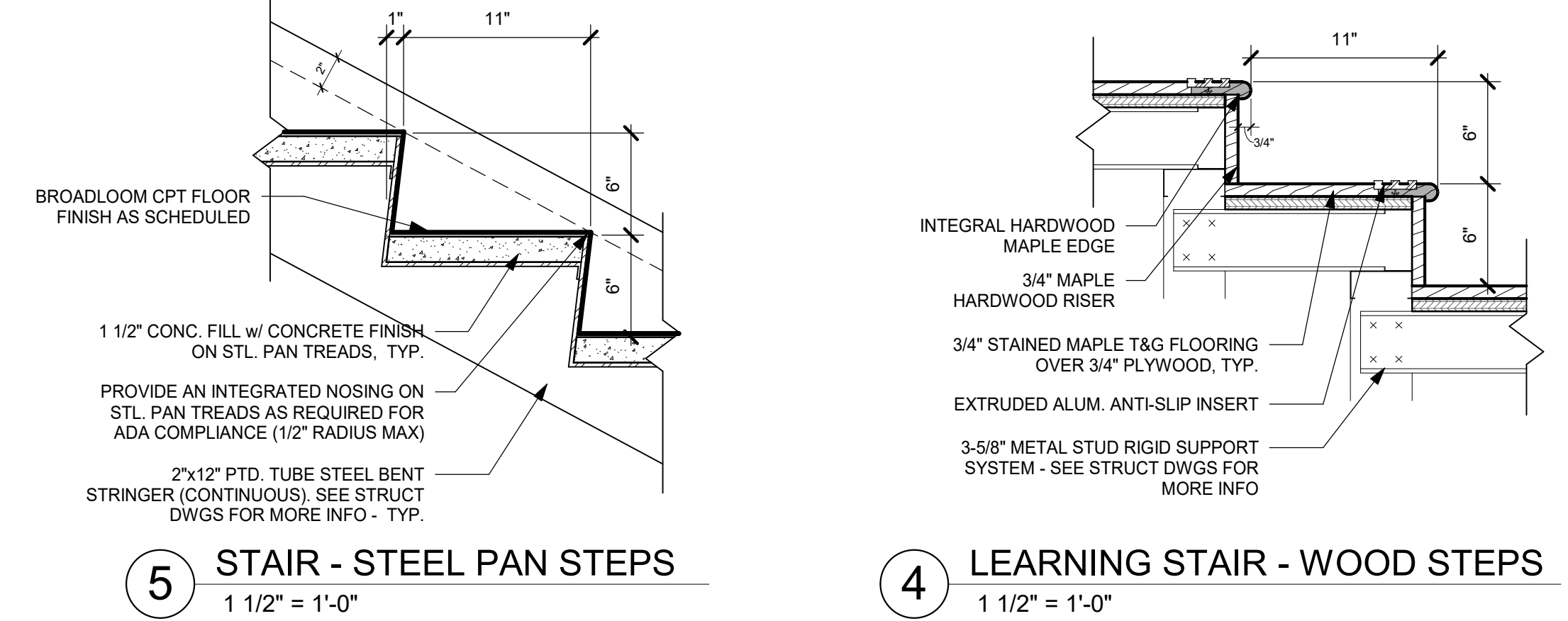
STAIR PLANS &
SECTIONS

| | | | |
|--------------|-----------|-----------------|------------|
| Job No. | 2021-1080 | Date | 11/02/2022 |
| Scale | AS NOTED | Drawn / Checked | KG+D |
| Sheet Number | A701 | | |



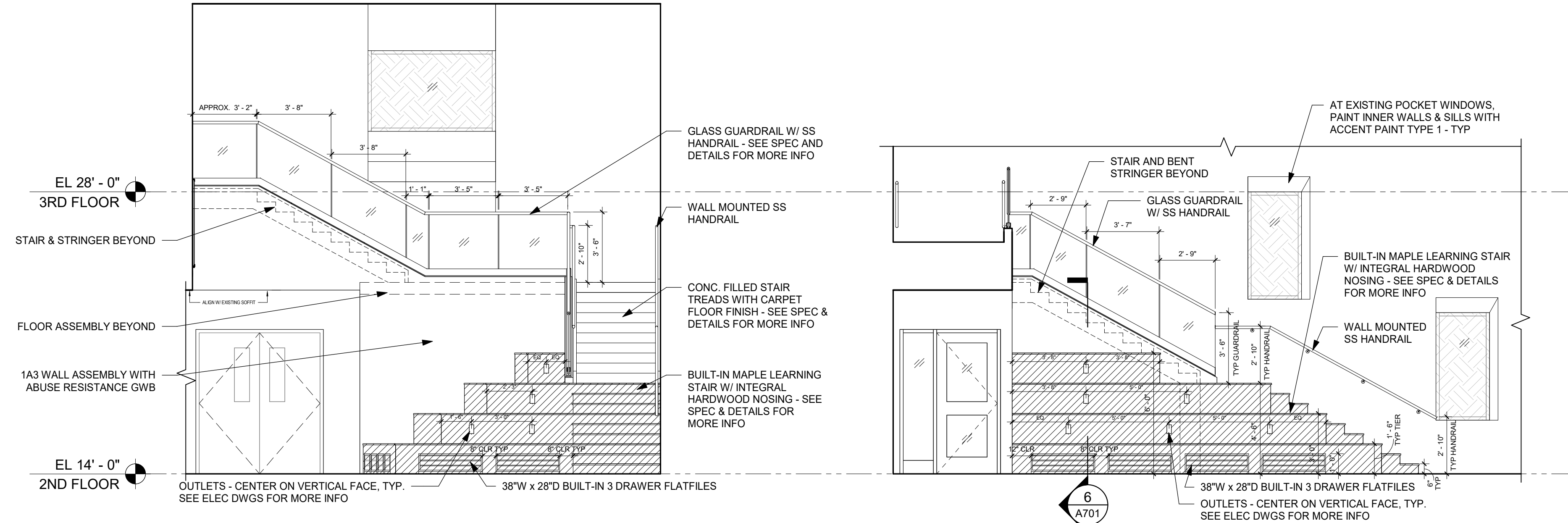
7 TYP DETAIL @ WALL MOUNTED HANDRAIL
3" = 1'-0"

6 SECTION AT LEARNING STAIR
3/4" = 1'-0"



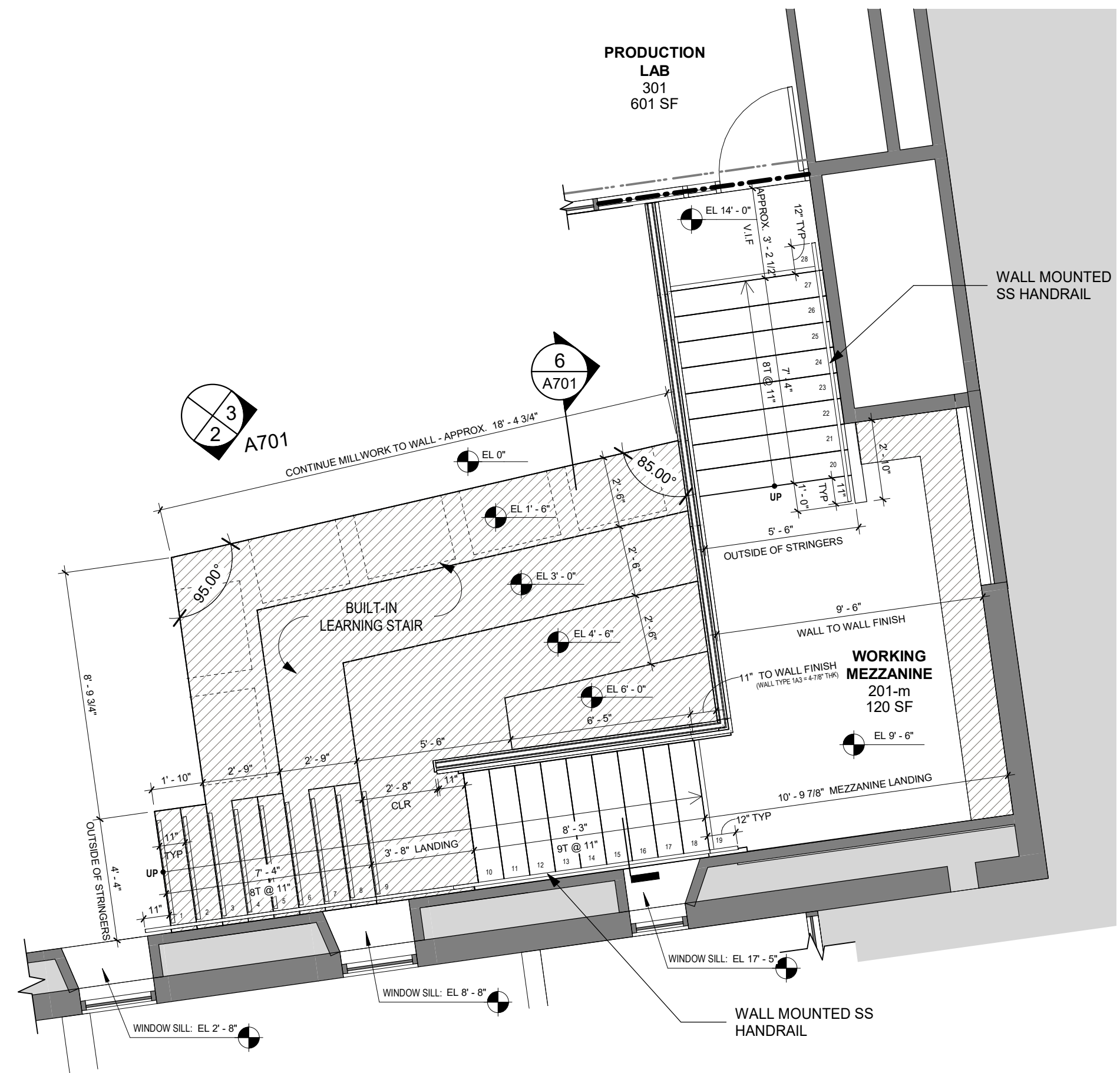
5 STAIR - STEEL PAN STEPS
1 1/2" = 1'-0"

4 LEARNING STAIR - WOOD STEPS
1 1/2" = 1'-0"



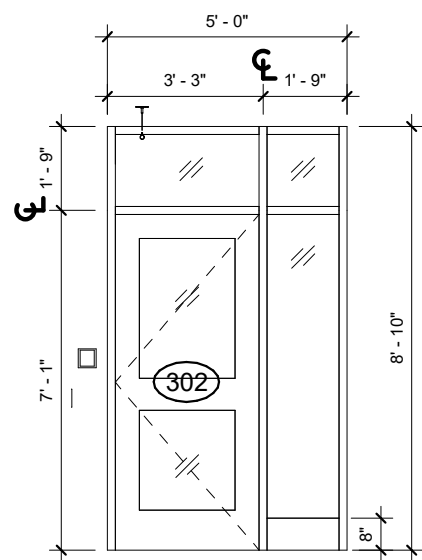
3 LEARNING STAIR - EAST ELEVATION
1/4" = 1'-0"

2 LEARNING STAIR - SOUTH ELEVATION
1/4" = 1'-0"

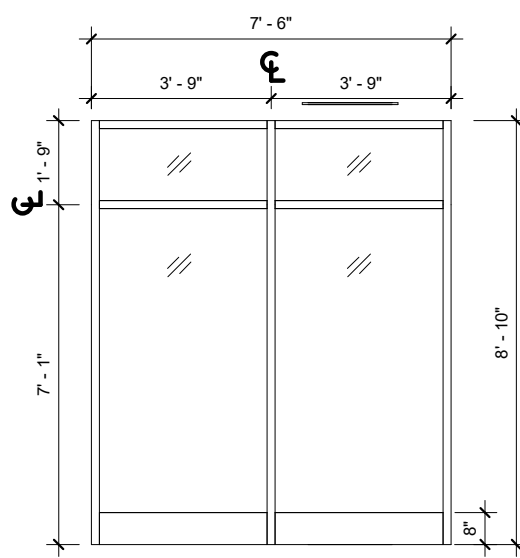


1 LEARNING STAIR OVERALL PLAN
1/4" = 1'-0"

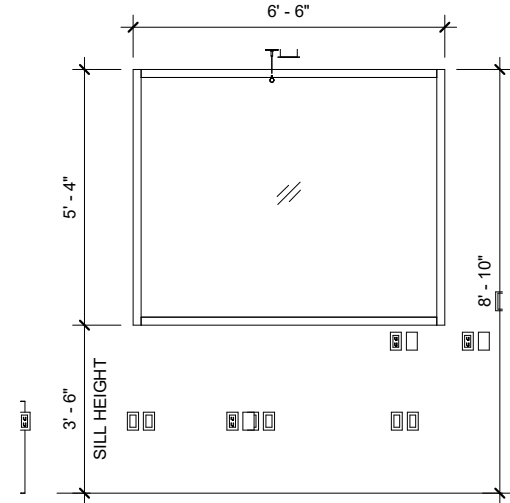
NOTE - SPOT ELEVATIONS ARE
REFERENCED FROM THE 2ND FLOOR



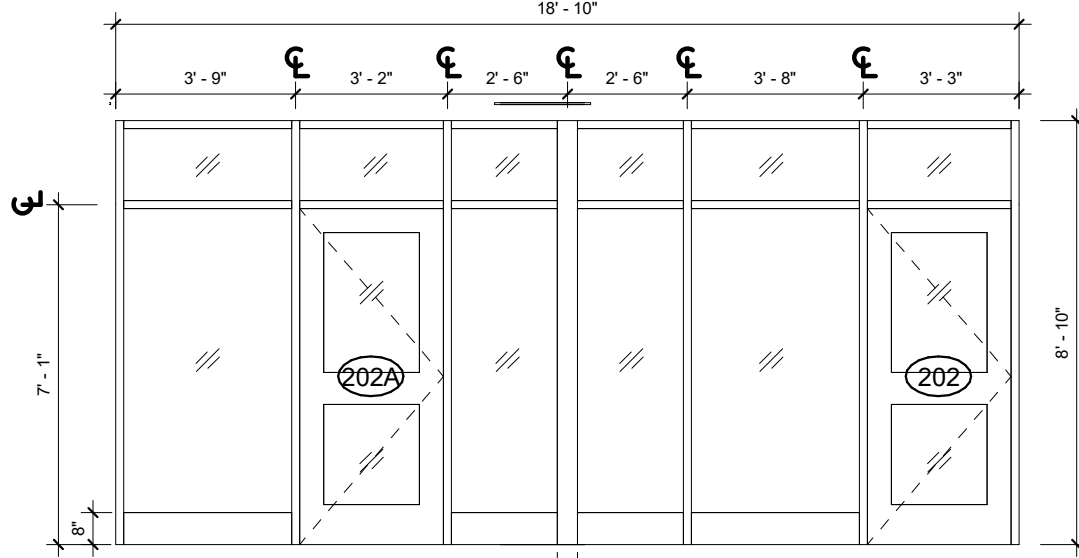
H6 - 3RD FL
1/4" = 1'-0"



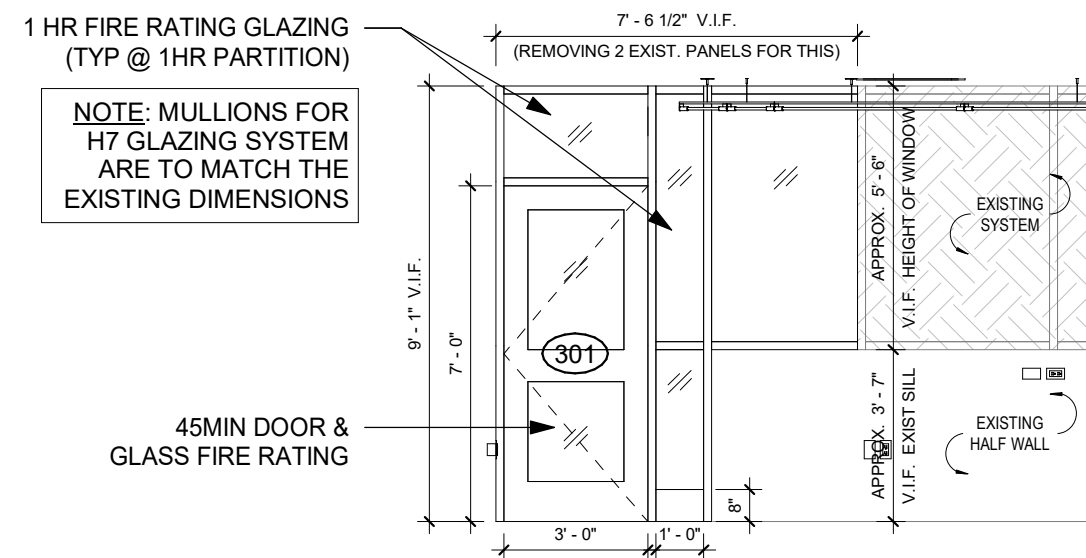
H3 - 2ND FL
1/4" = 1'-0"



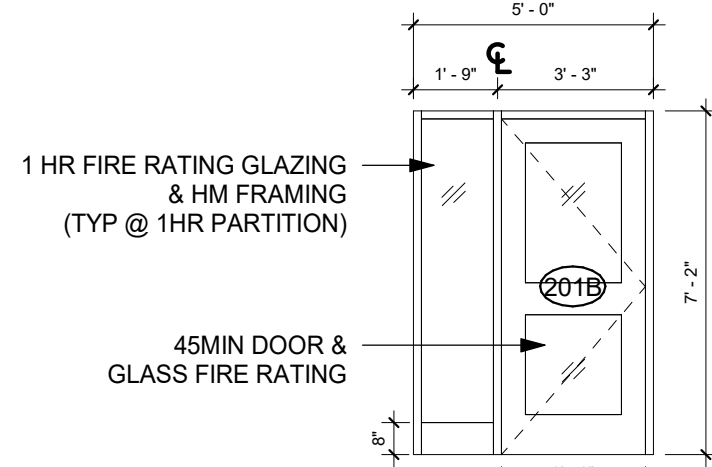
H5 - 3RD FL
1/4" = 1'-0"



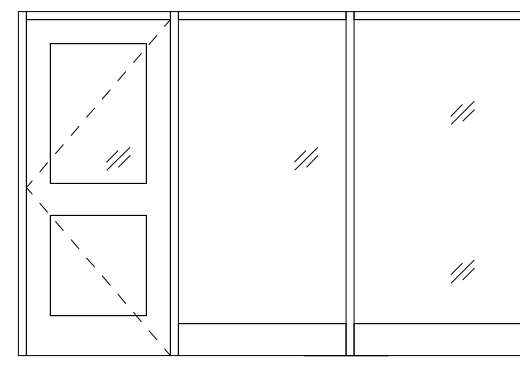
H2 - 2ND FL
1/4" = 1'-0"



H7 - 3RD FL
1/4" = 1'-0"

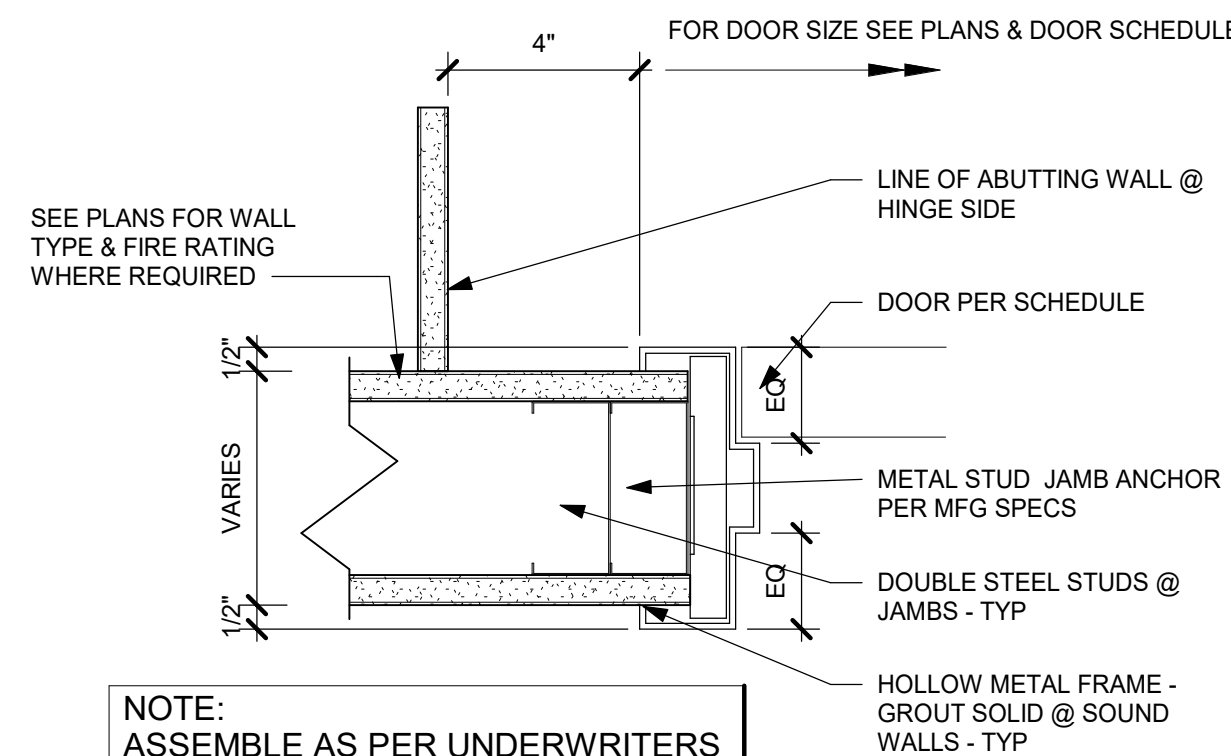


H4 - 2ND FL
1/4" = 1'-0"



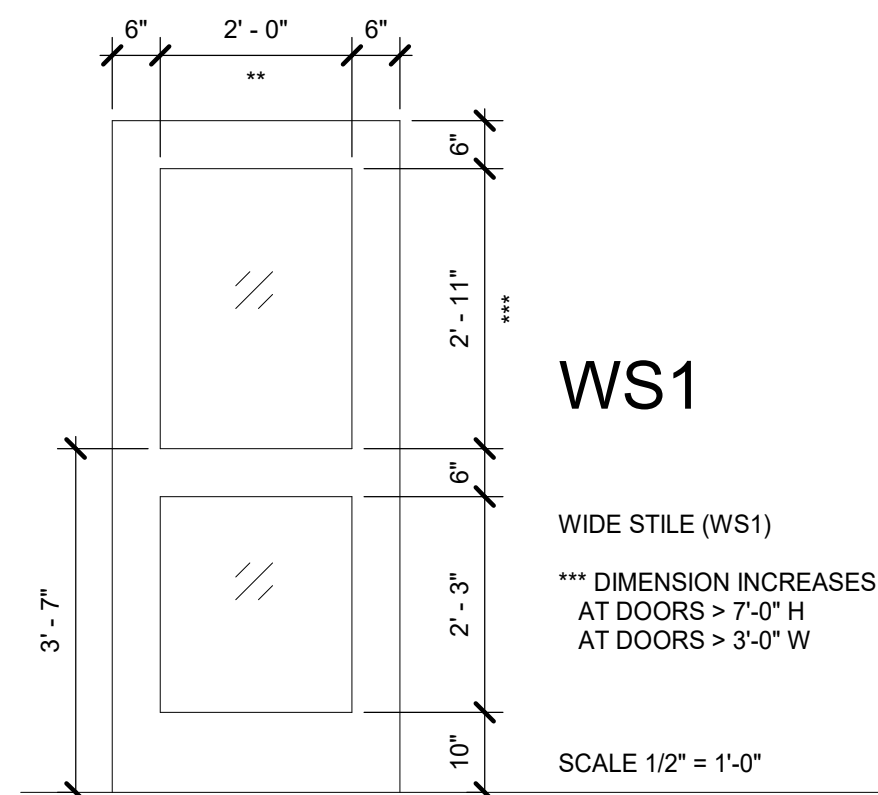
H1 - 2ND FL
1/4" = 1'-0"

NOTE: ALL MULLIONS ARE 2"WIDE BY 4.5" DEEP U.O.N



NOTE:
ASSEMBLE AS PER UNDERWRITERS
LABORATORY, FIRE RESISTANCE
RATING REQUIREMENTS. WHERE
RATED WALLS ARE INDICED.

A DOOR JAMB AT GYP BD WALL
3" = 1'-0"



| UL LABEL | RATING | RATING | MAX GLASS AREA |
|----------|----------|--------|----------------------|
| B | 1 1/2 HR | 90 MIN | 100 SQ IN. PER LEAF |
| C | 3/4 HR | 45 MIN | 1296 SQ IN. PER LEAF |
| S | SMOKE | SMOKE | |

NOTE:
GLAZING AND GLASS SIZES FOR INTERIOR DOORS AND
WINDOWS ARE TO COMPLY WITH NFPA 80 OR ASTM E119 - TYP.

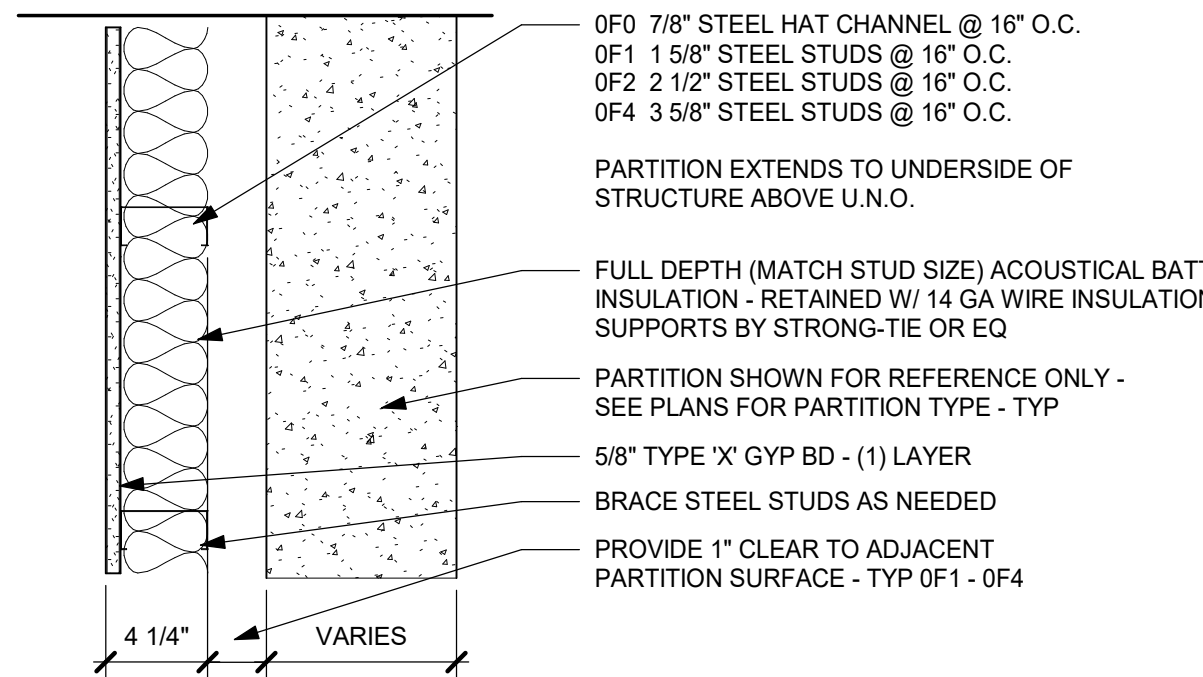
Door Schedule

| Mark | Level | # of Leaves | WI | HT | ELEV | Door Mat | Door Fin | Frame Mat | Frame Fin | Fire Rating (MIN) | HDWE SET | Comments |
|------|-----------|-------------|---------|---------|------|----------|----------|-----------|-----------|-------------------|----------|--------------------------|
| 201B | 2ND FLOOR | 1 | 3' - 0" | 7' - 0" | WS1 | WD | ST | HM | PTD | 45 | 3.0 | WITH 45 MIN GLASS RATING |
| 202 | 2ND FLOOR | 1 | 3' - 0" | 7' - 0" | WS1 | WD | ST | HM | PTD | | 1.0 | |
| 202A | 2ND FLOOR | 1 | 3' - 0" | 7' - 0" | WS1 | WD | ST | HM | PTD | | 2.0 | |
| 202C | 2ND FLOOR | 1 | 3' - 0" | 7' - 0" | WS1 | WD | ST | HM | PTD | | 1.0 | |
| 301 | 3RD FLOOR | 1 | 3' - 0" | 7' - 0" | WS1 | WD | ST | HM | PTD | 45 | 3.0 | WITH 45 MIN GLASS RATING |
| 302 | 3RD FLOOR | 1 | 3' - 0" | 7' - 0" | WS1 | WD | ST | HM | PTD | | 2.0 | |

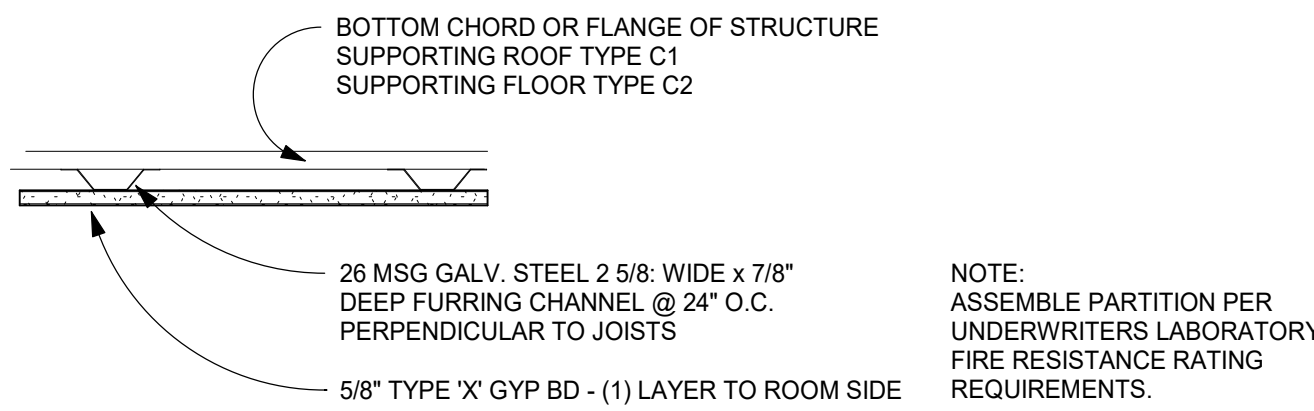
DOOR GENERAL NOTES

- GLAZING IN FIRE RATED DOORS SHALL BE FIRELITE PLUS TO MEET THE FIRE RATING SCHEDULED, UNLESS NOTED OTHERWISE. G.C. SHALL VERIFY SIZE OF REPLACEMENT DOORS & FRAMES IN THE EXISTING BUILDING BEFORE ORDERING.
- SEE SPEC. SECTION 08 71 00 FOR DOOR HARDWARE SETS, HARDWARE NOTES, COMPONENTS & OTHER INFORMATION.
- FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYPICAL) U.N.O. SEE DETAILS A/A901

SPECIALTY PARTITIONS

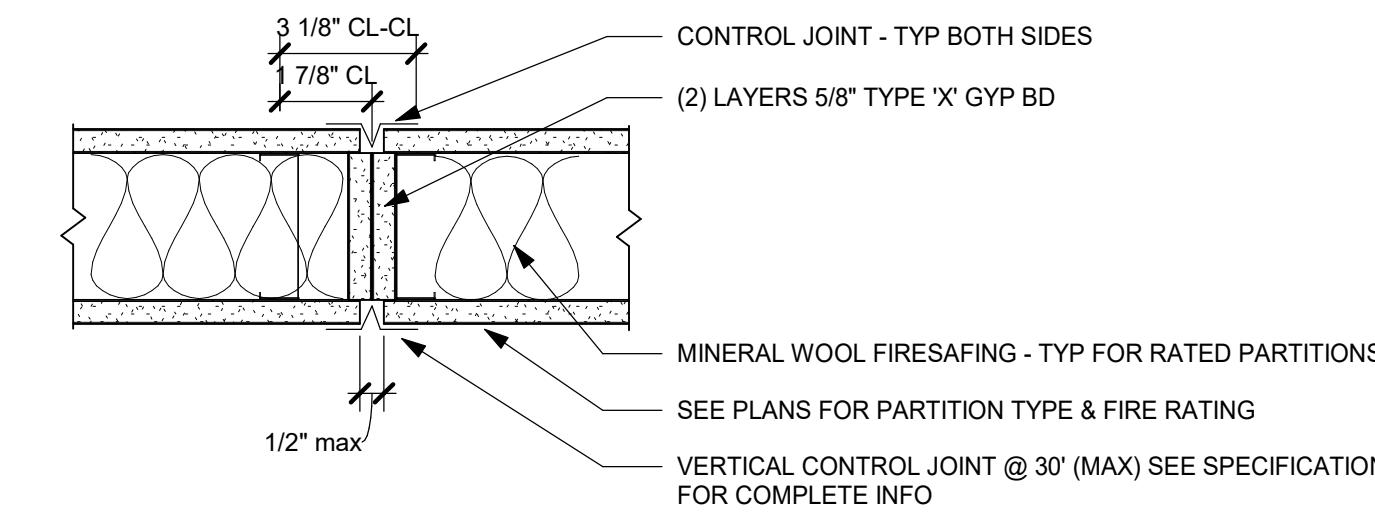


0FX NON-RATED FURRING PARTITION

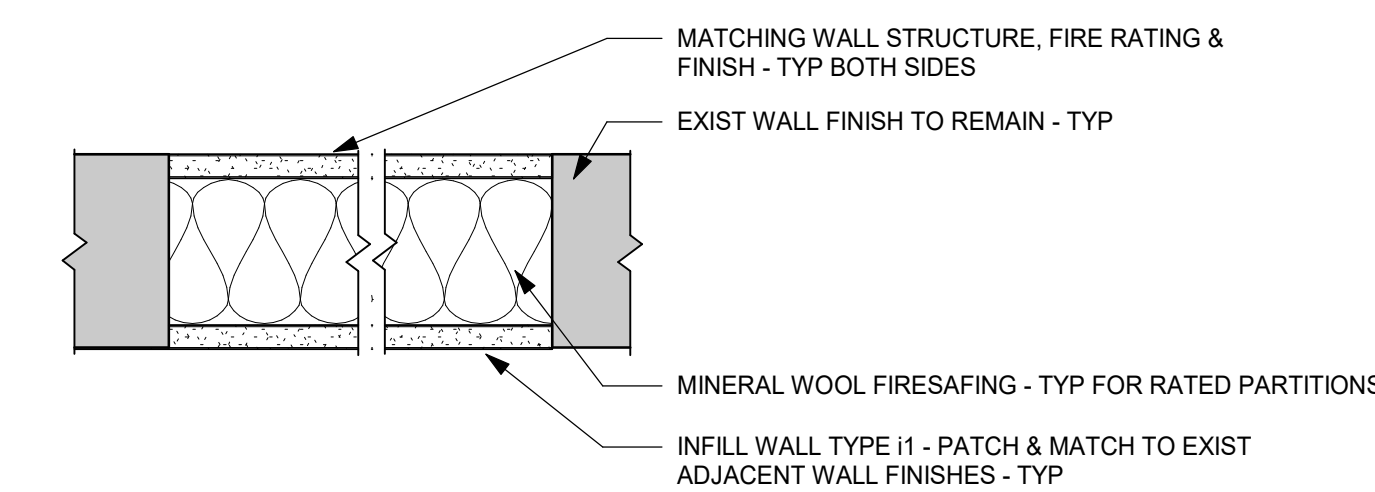


C1 1 hr - RATED ROOF/CEILING (UL # P519)

C2 1 hr - RATED FLOOR/CEILING (UL # G515)



A TYPICAL GYP BD CONTROL JOINT

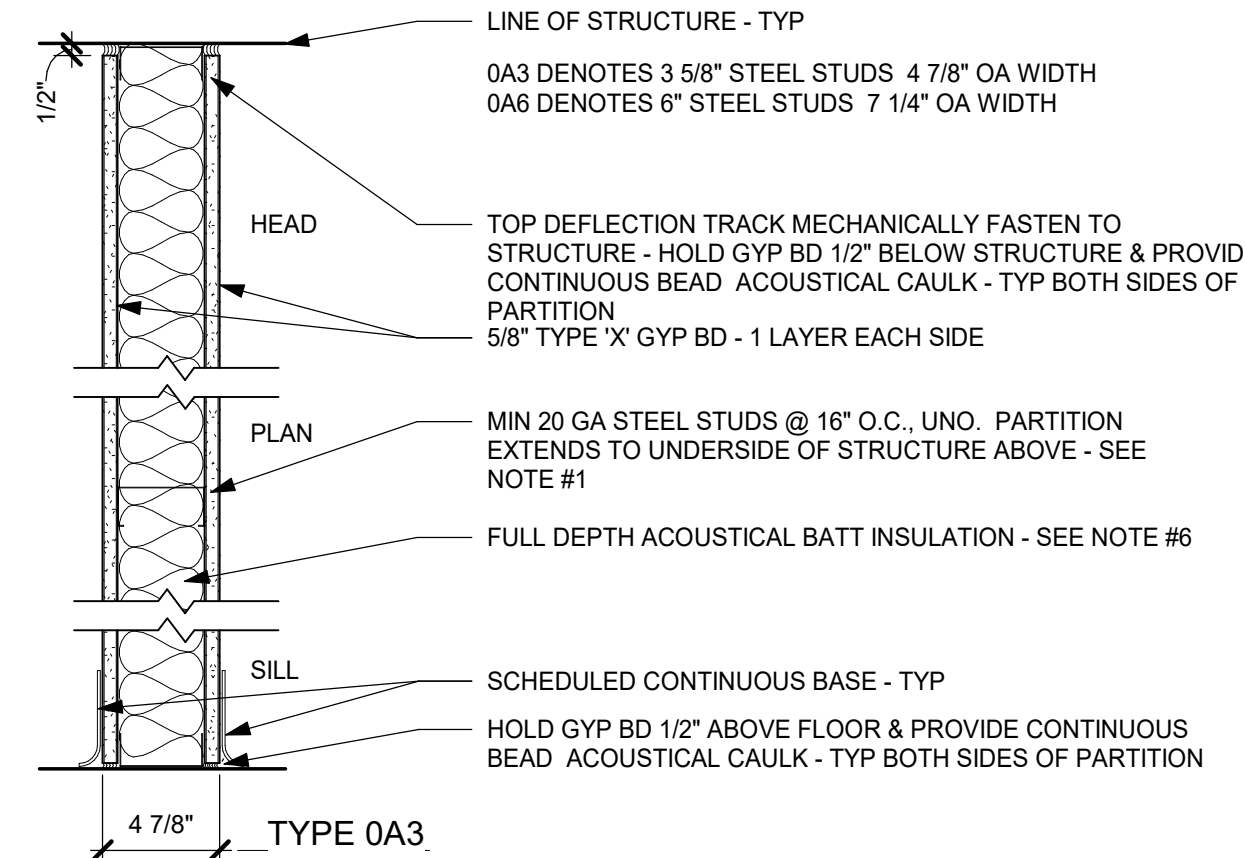


i1 TYPICAL INFILL WALL

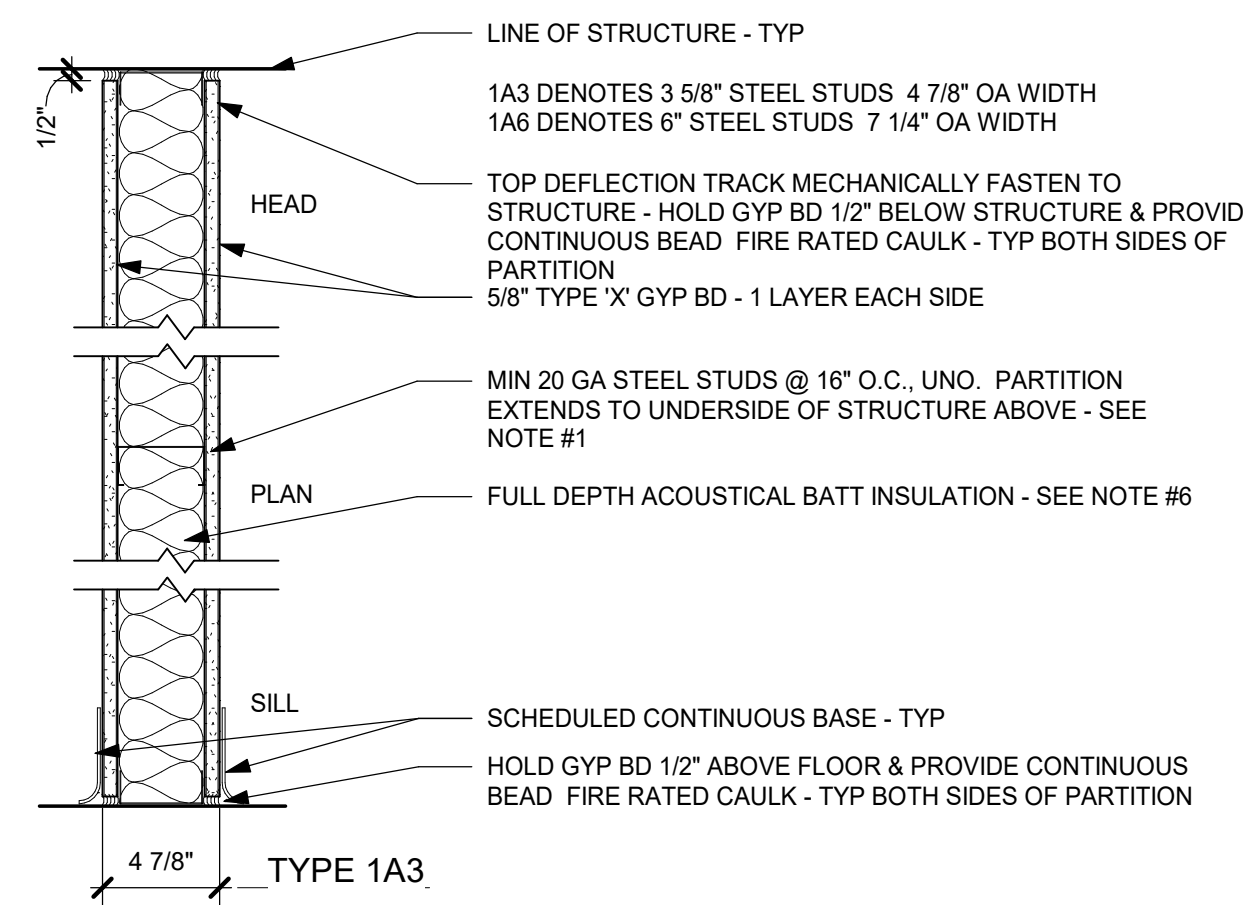
PARTITION CONSTRUCTION NOTES

- PARTITION TYPES DESIGNATED WITH '48' ADJACENT TO PARTITION TYPE SYMBOL SHALL TERMINATE AT 48" ABOVE FINISHED FLOOR. PROVIDE STEEL TUBE, ANGLE OR HEAVY GAUGE STUDS INSIDE THE PARTITION, AS REQUIRED TO MEET PARTITION DEFLECTION CRITERIA.
- PROVIDE DEFLECTION TRACK AT TOP OF ALL PARTITIONS THAT EXTEND TO STRUCTURE ABOVE, (TYPICAL). PROVIDE FIRE-RATED DEFLECTION TRACK SYSTEM AT TOP OF ALL FIRE-RATED PARTITIONS, (TYPICAL). SEE DETAIL H1 ON THIS SHEET.
- SEE SPECIFICATIONS FOR FIRESTOPPING REQUIREMENTS.
- WHERE ACOUSTICAL BATT INSULATION IS USED IN PARTITIONS: SEAL AIRTIGHT W/ NON-HARDENING ACOUSTICAL SEALANT AT TOP, BOTTOM & SIDES. PARTITION MOUNTED ELECTRICAL BOXES SHOULD BE OFFSET MIN 24" (NOT BACK TO BACK) W/ PERIMETER OF BOXES SEALED AIR-TIGHT W/ NON-HARDENING ACOUSTICAL PUTTY PADS. PIPE & DUCT PENETRATIONS SHALL BE SLEEVED, PACKED W/ 10lb. DENSITY CLOSED CELL FOAM, & SEALED TO PARTITION W/ NON-HARDENING ACOUSTICAL SEALANT. FIRE RATED PARTITIONS TO RECEIVE FIRE RATED PUTTY PADS - TYP.
- PROVIDE 'INSULHOLD' HANGERS OR EQ BATT RETAINING CLIPS HORIZONTALLY @ MAX 48" SPACING PER MFG SPECS IN ALL SINGLE SIDED (GYP BD) FURRING PARTITIONS.
- COORDINATE REQUIRED STUD GAUGE WITH STRUCTURAL DRAWINGS - TYP.
- ONLY OUTER LAYER GWB OF ROOM 201B (STAIR SIDE) AND WALL BELOW RAILING SYSTEM AT STAIR TO BE 5/8" THK ABUSE RESISTANT TYPE.
- REFER TO SPECIFICATIONS AND MANUFACTURER RECOMMENDATIONS FOR ENVIRONMENTAL CONDITIONS REQUIRED FOR STORAGE AND INSTALLATION OF GYPSUM PARTITION BOARD PRODUCTS. PRODUCTS IMPROPERLY STORED OR INSTALLED WITHOUT INDOOR ENVIRONMENTAL CONTROL MAY BE REJECTED.
- SEE SPECIFICATIONS FOR FINISH REQUIREMENTS OF GYP BD AT WET AREAS. USE TILE BACKER BOARD (CEMENT BOARD) FOR ALL TILED AREAS. GREEN BOARD &/OR BLUE BOARD ARE PROHIBITED FROM USE ON THIS PROJECT.
- ASSEMBLE ALL RATED PARTITION TYPES PER UNDERWRITERS LABORATORY FIRE RESISTANCE RATING REQUIREMENTS.
- METALLIC BOXES LOCATED ON OPPOSITE SIDES OF PARTITIONS OR PARTITIONS SHOULD BE SEPARATED BY A MINIMUM HORIZONTAL DISTANCE OF 24 IN. THIS MINIMUM SEPARATION DISTANCE BETWEEN METALLIC BOXES MAY BE REDUCED WHEN WALL-OPENING PROTECTIVE MATERIALS (CLIV) ARE INSTALLED ACCORDING TO THE REQUIREMENTS OF THEIR CERTIFICATION.
- METALLIC BOXES SHALL NOT BE INSTALLED ON OPPOSITE SIDE OF PARTITIONS OR PARTITIONS OF STAGGERED STUD CONSTRUCTION UNLESS WALL-OPENING PROTECTIVE MATERIALS ARE INSTALLED WITH THE METALLIC BOXES IN ACCORDANCE WITH CERTIFICATION REQUIREMENTS FOR THE PROTECTIVE MATERIALS.

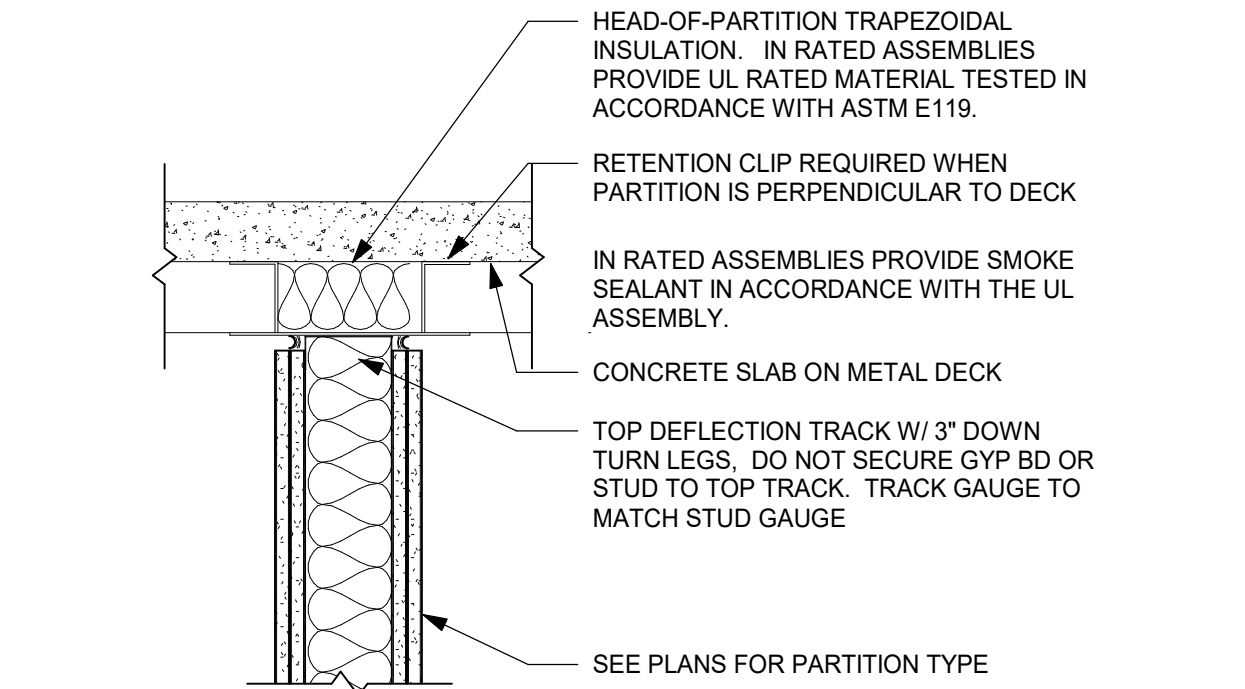
METAL STUD PARTITIONS



0AX NON-RATED STEEL STUD WALL



1AX 1 hr FIRE RESISTIVE - UL #U419



H1 TYPICAL PARTITION HEAD DETAIL @ METAL DECK PERPENDICULAR TO DECK

NOTE:
PROVIDE U.L. ASSEMBLY AT ALL RATED PARTITIONS FOR PARTITION TO DECK CLOSURE

PARTITION TAG NAMING MATRIX

| | |
|---|----------------------|
| 1st NUMBER = FIRE RATING | FIRE RATING |
| 0 = NON-RATED PARTITION TYPE | PARTITION FINISH |
| 1 = 1 HR FIRE RATED PARTITION TYPE | CORE THICKNESS/WIDTH |
| 2 = 2 HR FIRE RATED PARTITION TYPE | |
| 2nd NUMBER = PARTITION FINISH | |
| A = GYPSUM BOARD - BOTH SIDES | |
| B = CEMENTITIOUS BOARD - 1 OR BOTH SIDES | |
| C = ABUSE RESISTANT BOARD - 1 OR BOTH SIDES | |
| F = FURRING PARTITION | |
| M = MASONRY PARTITION - CMU | |
| P = PLUMBING CHASE | |
| S = SHAFT PARTITION | |
| 3rd NUMBER = PARTITION CORE THICKNESS / WIDTH | |
| 0 = 7/8" HAT CHANNEL | |
| 1 = 1-5/8" STUD | |
| 2 = 2-1/2" STUD | |
| 4 = 4" STUD | |
| 6 = 6" STUD OR 5-5/8" CMU BLOCK | |
| 8 = 8" STUD OR 7-5/8" CMU BLOCK | |
| 10 = 10" STUD OR 9-5/8" CMU BLOCK | |
| 12 = 12" STUD OR 11-5/8" CMU BLOCK | |

NON-RATED PARTITIONS

1 hr RATED PARTITIONS

GENERAL PARTITION NOTES/DETAILS

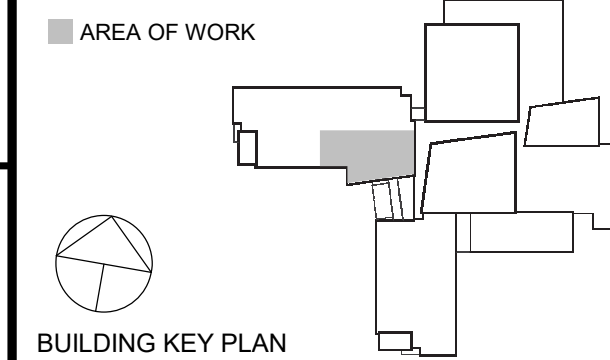
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REGISTERED ARCHITECT
KAEYER, GARMENT & DAVIDSON
STATE OF NEW YORK

| | | |
|-----|------------|----------------------|
| 3 | 11/02/2022 | ISSUE FOR BID |
| 1 | 05/25/2022 | NYSED - CONST. DOCS. |
| No. | Date | Issue |

Sheet Title




















**DOOR, FRAME
AND PARTITION
TYPES & DETAILS**

| | | | |
|---------|-----------|-----------------|------------|
| Job No. | 2021-1080 | Date | 11/02/2022 |
| Scale | AS NOTED | Drawn / Checked | KG+D |

Sheet Number

A901

SYMBOLS AND ABBREVIATIONS





| SYMBOL | ABBREVIATION | DESCRIPTION |
|---|--------------|-----------------------------|
| - | AFF | ABOVE FINISHED FLOOR |
| - | AHC | ABOVE HUNG CEILING |
| - | BFP | BACK FLOW PREVENTOR |
|  | - | BALL VALVE |
|  | - | BUTTERFLY VALVE |
|  | - | CHECK VALVE |
|  | - | CIRCUIT SETTER |
|  | CODP | CLEAN OUT DECK PLATE |
| | CW | COLD WATER |
| - | DCV | DOUBLE CHECK VALVE - BFP |
| c | - | ELBOW DOWN |
| o | - | ELBOW UP |
| | DEM. | EXISTING TO BE REMOVED |
| | EX. | EXISTING TO REMAIN |
| - | FCO | FLOOR CLEAN OUT |
| - | FS | FLOOR SINK |
|  | - | FLOW ARROW |
| - | FAI | FRESH AIR INTAKE |
|  | - | GATE VALVE |
| | HW | HOT WATER |
| - | HW HTR | HOT WATER HEATER |
| | HWC | HOT WATER RECIRCULATION |
| - | LDR | LEADER |
|  | - | MANUAL AIR VENT |
| | NEW | NEW WORK |
|  | - | OS&Y GATE VALVE |
|  | - | PLUG VALVE |
|  | - | PIPE CAP |
|  | - | PRESSURE GAGE |
|  | - | PRESSURE REDUCING VALVE |
|  | - | PUMP |
| - | PD | PUMP DISCHARGE |
| - | RPZ | REDUCED PRESSURE ZONE - BFP |
| | REL. | REMOVE AND RELOCATE |
| - | S | SANITARY |
|  | - | STRAINER |
| c | - | TEE DOWN |
| o | - | TEE UP |
|  | - | THERMOMETER |
| - | TYP. | TYPICAL |
|  | - | UNION |
| | V | VENT |
| - | VTR | VENT THROUGH ROOF |
| - | W | WASTE |
|  | - | 2-WAY VALVE |
|  | - | 3-WAY VALVE |

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

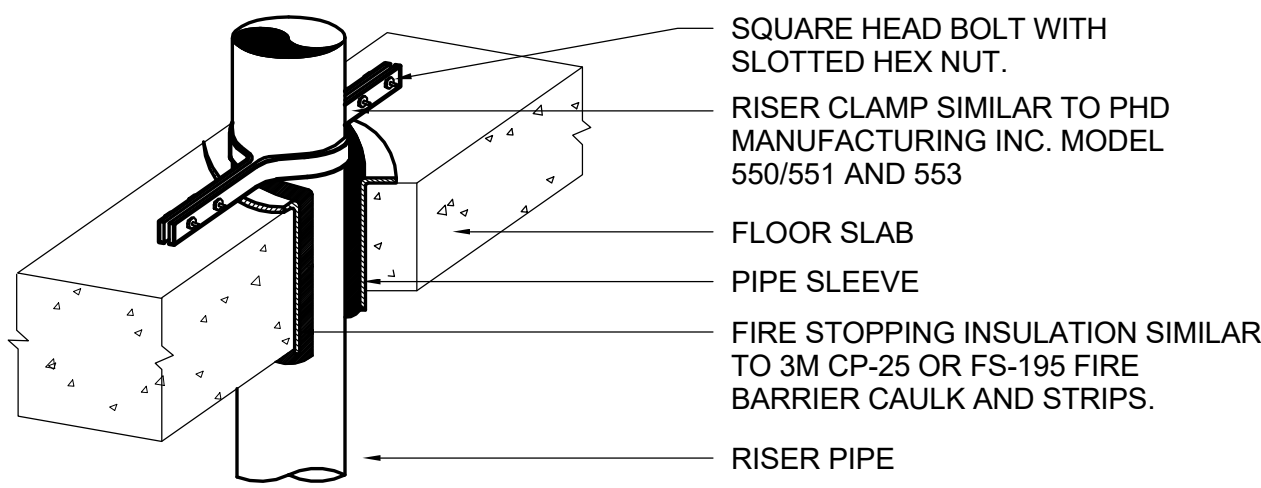
GENERAL NOTES

- THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
- THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- CONNECTIONS TO EXISTING UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF EXISTING PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
- PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
- PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
- PITCH ALL WASTE AND SANITARY PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2 1/2".
- NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
- PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
- PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
- ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
- PROVIDE TRAP SEAL PRIMERS FOR FLOOR DRAINS AS REQUIRED. INSTALL THE PRIMER VALVE IN THE COLD WATER SERVICE, WITH THE TRAP CONNECTION PIPED TO THE FLOOR DRAIN TRAP. LOCATE THE VALVE IN AN ACCESSIBLE LOCATION.
- THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE PLUMBING WORK.
- NEW PIPING LAYOUT IS PREDICATED ON RECORD DRAWING DATA OF EXISTING RISERS AND DRAWINGS. MODIFICATIONS TO THE LAYOUT MAY BE REQUIRED DUE TO DIFFERENT ACTUAL CONDITIONS, OBSTRUCTIONS, INTERFERENCES, ETC.
- SEE THE ARCHITECTURAL DRAWINGS FOR EXACT PHASING AND TIME SCHEDULE FOR CONSTRUCTION.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

PLUMBING FIXTURE SCHEDULE

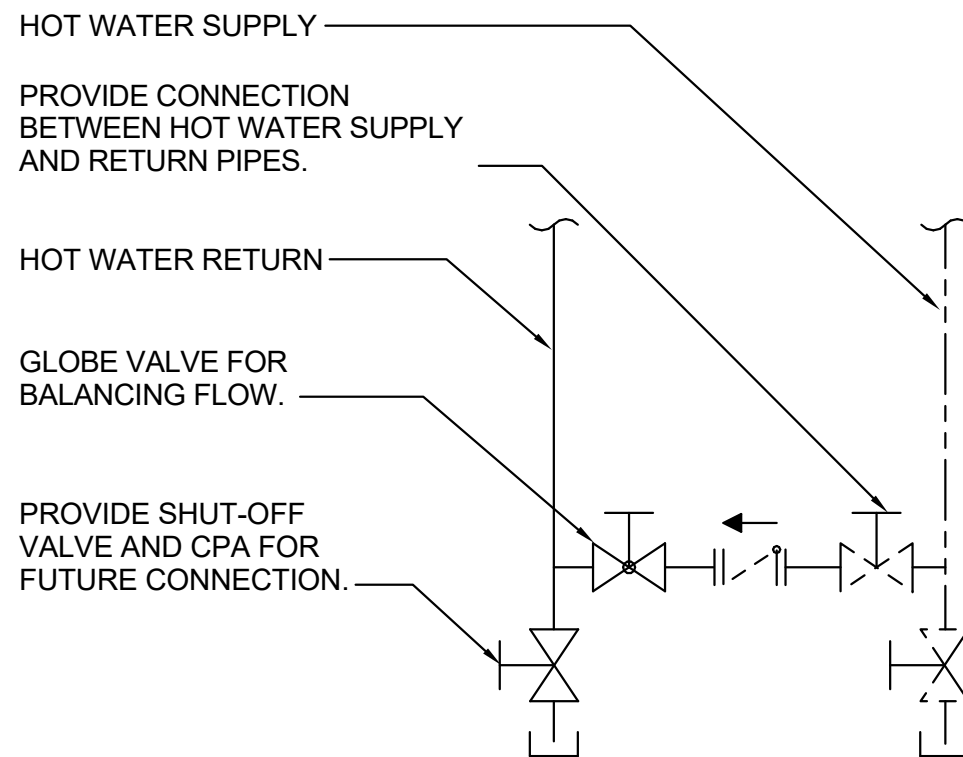
| TAG | SYMBOLS | | FIXTURES | PLUMBING CONNECTIONS | | | | DESCRIPTION |
|-----|---|---|--------------------|----------------------|----------|------------|-----------|---|
| | PLAN | ELEVATION | | WASTE | VENT | COLD WATER | HOT WATER | |
| P-1 |  |  | SINGLE BOWL SINK | 1-1/2" | 1-1/2" | 1/2" | 1/2" | KOHLER PINOIR MODEL K-2035-1, WALL MOUNTED, OVAL BASIN WITH OVERFLOW, SINGLE FAUCET HOLE, VITREOUS CHINA, ADA COMPLIANT, SINK FAUCET, DECK MOUNTED 8" FIXED CENTERES, 5-1/4" RESTRICTED SWING GOOSENECK SPOUT, 2.2 GPM VANDAL PROOF AERATOR, 4" VANDAL PROOF WRISTBLADE HANDLES, QUATURN COMPRESSION OPERATING CARTRIDGES, 1/2"NPSM SUPPLY INLETS AND COUPLING NUT. PROVIDE P-2 SOLIDS INTERCEPTOR. |
| P-2 |  |  | SOLIDS INTERCEPTOR | AS NOTED | AS NOTED | | | JAY R. SMITH SOLID INTERCEPTOR MODEL 8730, SUSPENDED TYPE, ALUMINUM STRAINER, REMOVABLE STAINLESS STEEL SCREEN. |

NOTES:
1. REFER TO ARCHITECTURE DRAWINGS FOR LOCATIONS AND ELEVATIONS.



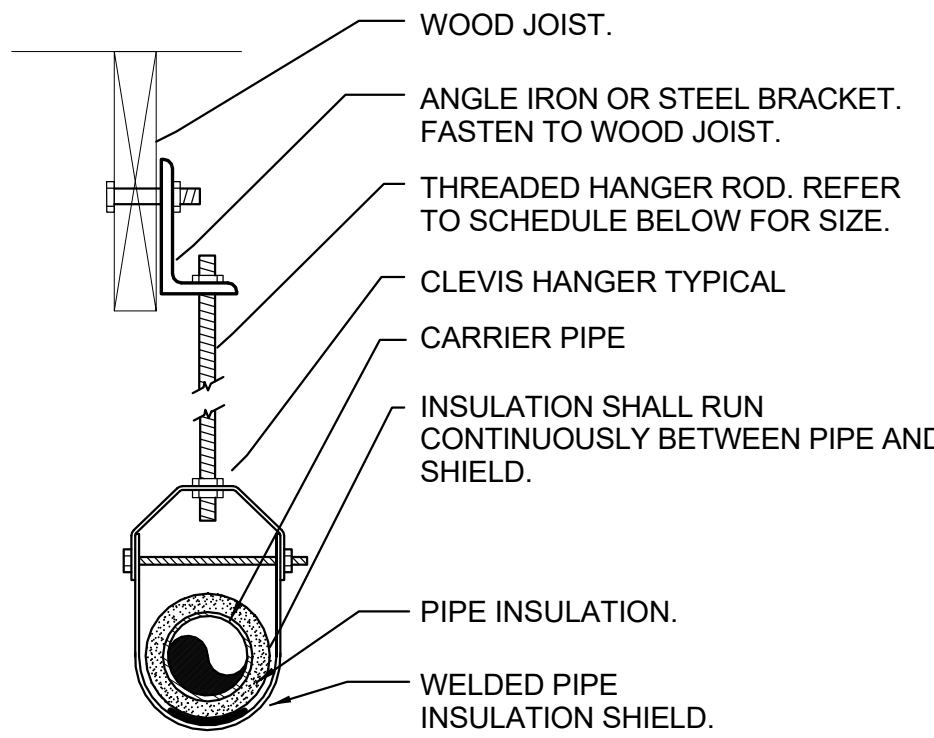
VERTICAL PIPE SUPPORT DETAIL

SCALE: NONE



HOT WATER RECIRC CONNECTION DETAIL

SCALE: NONE



PIPE HANGER SCHEDULE

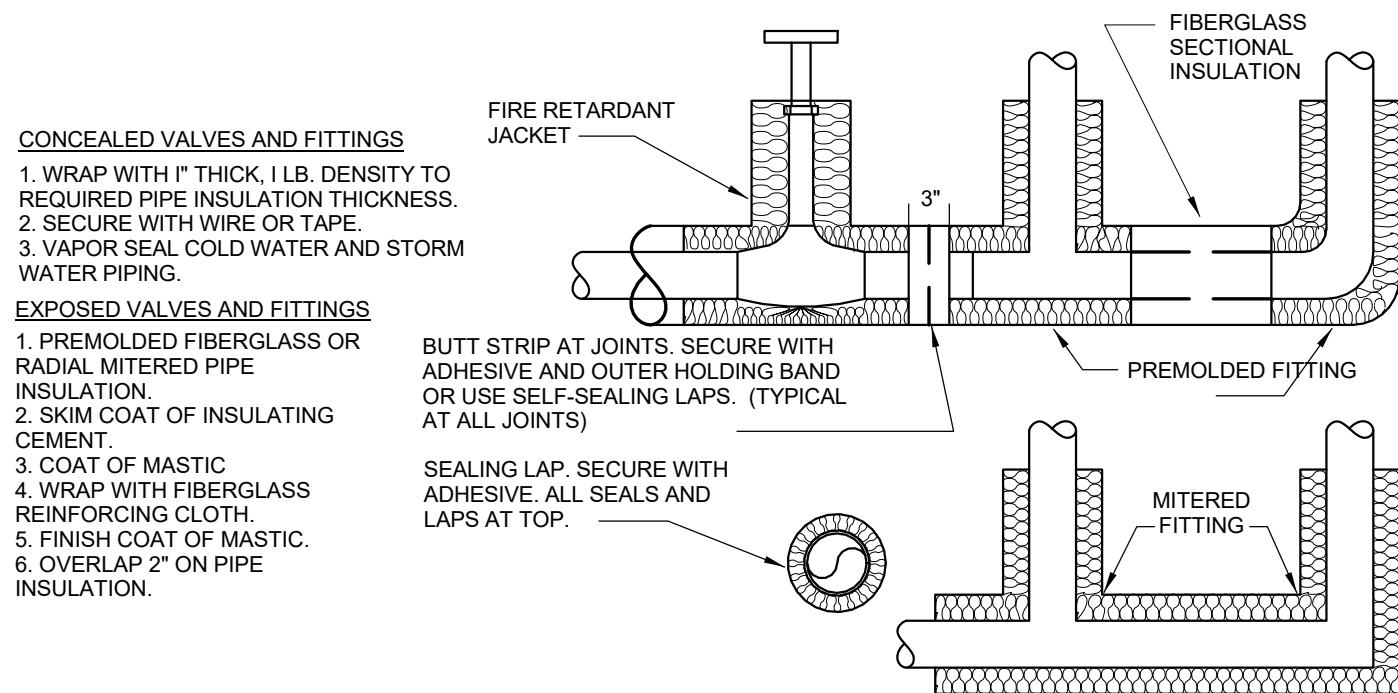
| PIPE DIA. | 3/4"-2" | 2 1/2"-3" | 4"-5" | 6" | 8"-12" |
|-------------|---------|-----------|-------|------|--------|
| HANGER DIA. | 3/8" | 1/2" | 5/8" | 3/4" | 7/8" |

NOTES:

- CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
- FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
- FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
- ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
- FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.

PIPE HANGER DETAIL

SCALE: NONE



PIPE INSULATION DETAIL

SCALE: NONE

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AREA OF WORK



BUILDING KEY PLAN

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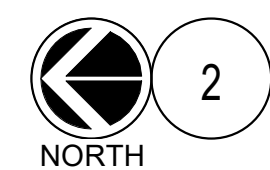
PLUMBING
SYMBOLS &
GENERAL NOTES

Job No. NKGO0245.00 Date 05/25/2022

Scale AS NOTED Drawn / Checked BS / RJ

Sheet Number

P001



NORTH

P201

| SYMBOL & ABBREVIATIONS | | | | | | GENERAL NOTES | |
|------------------------|--------------|--|--------|--------------|--|--|--|
| SYMBOL | ABBREVIATION | DESCRIPTION | SYMBOL | ABBREVIATION | DESCRIPTION | <div>1. CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.</div> <div>2. THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.</div> <div>3. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.</div> <div>4. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.</div> <div>5. DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.</div> <div>6. LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. & WITH ARCHITECTURAL DRAWINGS.</div> <div>7. COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.</div> <div>8. THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.</div> <div>9. THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.</div> <div>10. ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.</div> <div>11. DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS.</div> <div>12. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.</div> <div>13. THE OWNER'S PERMANENT HVAC EQUIPMENT (EXISTING / NEW) SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, VENTILATION, OR ANY OTHER PURPOSE. IF TEMPORARY HEATING, COOLING, VENTILATION, OR AIRFLOW IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT THEIR OWN EXPENSE.</div> <div>14. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.</div> <div>15. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.</div> <div>16. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, ACCESS PANELS, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF HVAC DUCTWORK, CONTROL CONDUITS, AND PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE MECHANICAL WORK.</div> <div>17. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING OF ALL EXISTING SUPPLY AIR DUCTWORK WITHIN THE PROJECT AREA.</div> <div>18. ALL HVAC CONTROL WIRING SHALL BE RUN IN EMT.</div> <div>19. ALL EQUIPMENT, MATERIALS, PRODUCTS, ETC., USED/INSTALLED ABOVE THE CEILING SHALL BE PLENUM RATED.</div> <div>20. DESIGN LOAD HAS BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN CHAPTERS 27 AND 28 OF THE ASHRAE HANDBOOK OF FUNDAMENTALS.</div> | |
| - | AD | ACCESS DOOR | | EX. | EXISTING TO REMAIN | | |
| - | AFF | ABOVE FINISHED FLOOR | | REL. | REMOVE AND RELOCATE | | |
| - | AHC | ABOVE HUNG CEILING | | NEW | NEW WORK | | |
| - | AP | ACCESS PANEL | | DEM. | EXISTING TO BE REMOVED | | |
| - | BTU | BRITISH THERMAL UNIT | | - | DRAIN | | |
| - | CFM | CUBIC FEET PER MINUTE | | HWS | HOT WATER SUPPLY | | |
| - | CL | CENTERLINE | | HWR | HOT WATER RETURN | | |
| - | DIA. OR Ø | DIAMETER | | | | | |
| - | EA | EXHAUST AIR | | - | THERMOSTAT | | |
| - | EAT | ENTERING AIR TEMPERATURE | | - | MOTORIZED DAMPER | | |
| - | EF- | EXHAUST FAN | | - | SMOKE DETECTOR | | |
| - | EL | ELEVATION | | - | AIR INTO REGISTER | | |
| - | ER | EXHAUST REGISTER | | - | POINT OF CONNECTION/DISCONNECTION | | |
| - | ESP | EXTERNAL STATIC PRESSURE | | TR | TOP REGISTER SUPPLY | | |
| - | GPM | GALLONS PER MINUTE | | TR | TOP REGISTER RETURN | | |
| - | HVAC- | HEATING, VENTILATING AND AIR CONDITIONING UNIT | | SR | SUPPLY REGISTER | | |
| - | LF | LINEAR FEET | | CD | 1-WAY | | |
| - | MBH | 1000 BRITISH THERMAL UNITS PER HOUR | | CD | 2-WAY | | |
| - | MER | MECHANICAL EQUIPMENT ROOM | | CD | 2-WAY | | |
| - | NC | NORMALLY CLOSED | | CD | 3-WAY | | |
| - | NIC | NOT IN CONTRACT | | CD | 4-WAY | | |
| - | NO | NORMALLY OPEN | | *CD | RELOCATED CEILING DIFFUSER | | |
| - | OAI | OUTSIDE AIR INTAKE | | LD | LINEAR DIFFUSER | | |
| - | RA | RETURN AIR | | RR/RG | RETURN REGISTER/GRILLE | | |
| - | RF- | RETURN FAN | | *RR*/RG | RELOCATED RETURN REGISTER/GRILLE | | |
| - | RPM | REVOLUTIONS PER MINUTE | | VAV | VAV BOX | | |
| - | RTU- | ROOFTOP UNIT | | VAV | VAV BOX WITH REHEAT | | |
| - | SA | SUPPLY AIR | | CV | CONSTANT VOLUME BOX | | |
| - | SP | STATIC PRESSURE | | - | SUPPLY DUCT UP | | |
| - | TD | TRANSFER DUCT | | - | SUPPLY DUCT DOWN | | |
| - | TSP | TOTAL STATIC PRESSURE | | - | RETURN DUCT UP | | |
| - | TYP. | TYPICAL | | - | RETURN DUCT DOWN | | |
| - | U.O.N. | UNLESS OTHERWISE NOTED | | - | TRANSITION FROM SQUARE TO ROUND DUCT | | |
| - | WG | INCHES OF WATER GAUGE | | - | TRANSITION | | |
| - | WMS | WIRE MESH SCREEN | | - | DUCT DROP | | |
| | - | 2-WAY VALVE | | - | SQUARE VANED ELBOW | | |
| | - | GATE VALVE | | - | DUCT RISE | | |
| | - | GLOBE VALVE | | - | DUCT DROP | | |
| | - | TEE DOWN | | - | DUCT TRANSITION | | |
| | - | ELBOW DOWN | | AL | ACOUSTIC LINING | | |
| | - | TEE UP | | FD/AD | FIRE DAMPER W/ ACCESS DOOR | | |
| | - | ELBOW UP | | SD/AD | SMOKE DAMPER W/ ACCESS DOOR | | |
| | - | CONCENTRIC REDUCER | | CFSD | COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR | | |
| | - | ECCENTRIC REDUCER | | VD | VOLUME DAMPER | | |
| | - | PIPE GUIDE | | AL | ACOUSTIC LINING | | |
| | - | PIPE ANCHOR | | - | DUCT SIZE - 1ST FIGURE IS SIDE SHOWN | | |
| | - | STRAINER | | FC | FLEXIBLE CONNECTION | | |
| | - | FLOW ARROW | | | SECTION CALLOUT | | |
| | - | BALANCING VALVE | | | | | |
| | - | MANUAL AIR VENT | | | | | |
| | - | AUTO AIR VENT | | - | CEILING DIFFUSER | | |
| | - | ANGLE GLOBE VALVE | | - | EXHAUST REGISTER | | |
| | - | ANGLE GATE VALVE | | - | RETURN REGISTER | | |
| | - | BALL VALVE | | - | SUPPLY REGISTER | | |
| | - | CHECK VALVE | | - | TOP REGISTER | | |
| | - | UNION | | - | VARIABLE AIR VOLUME BOX | | |
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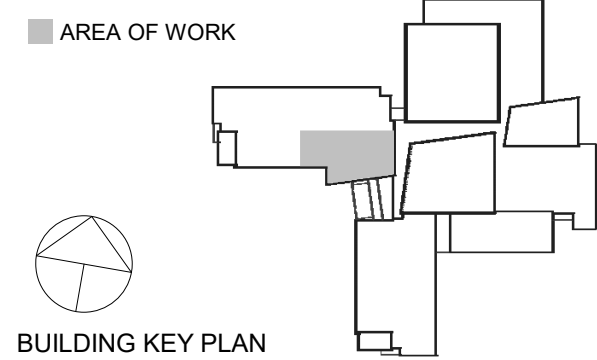
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| MECHANICAL SYMBOLS AND GENERAL NOTES | | |
| Job No. | Date | |
| NKGO0245.00 | 05/25/2022 | |
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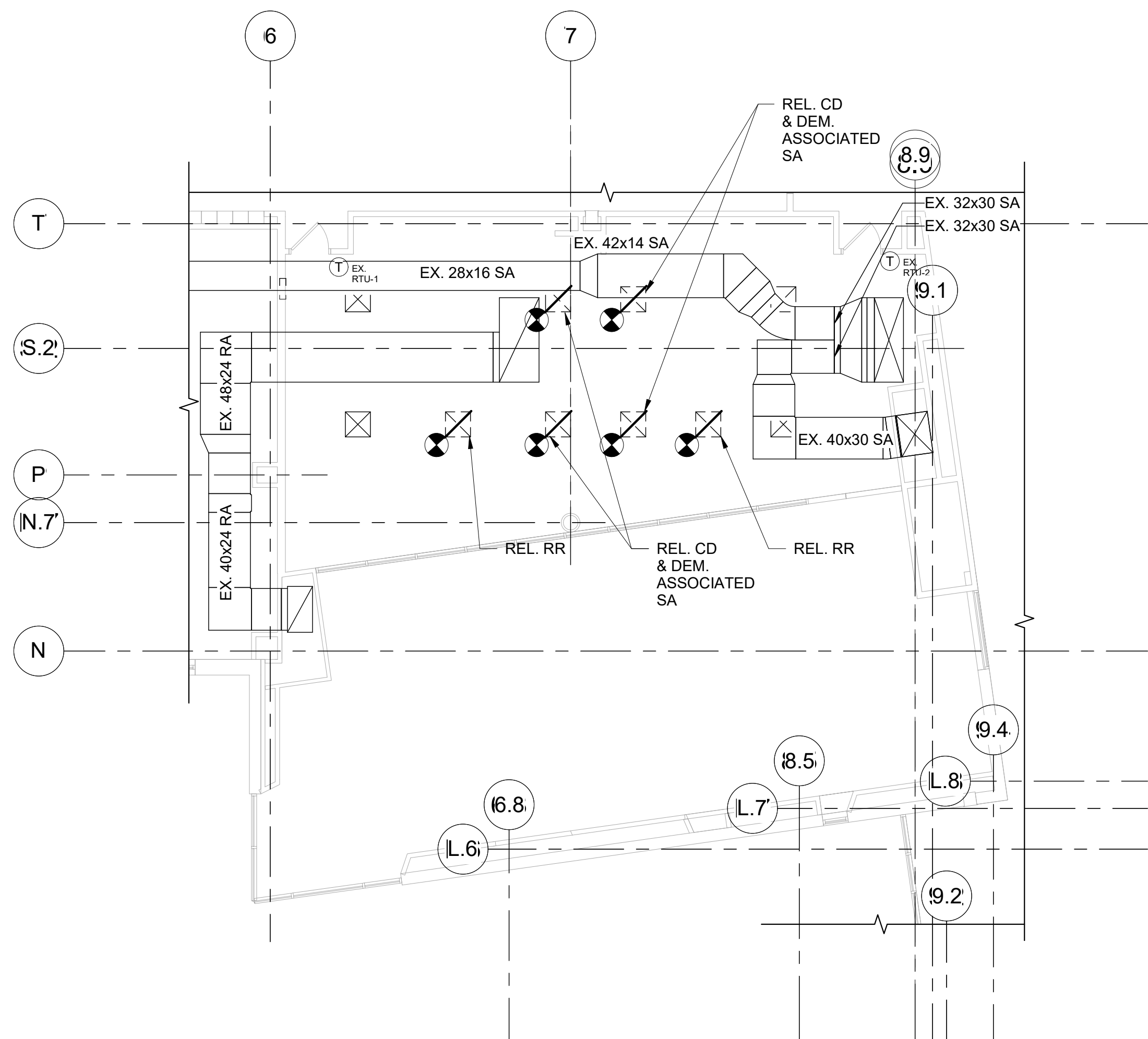
MECHANICAL
DEMOLITION
PLANS

Job No. NKGO0245.00 Date 05/25/2022

Scale AS NOTED Drawn / Checked AD RJ

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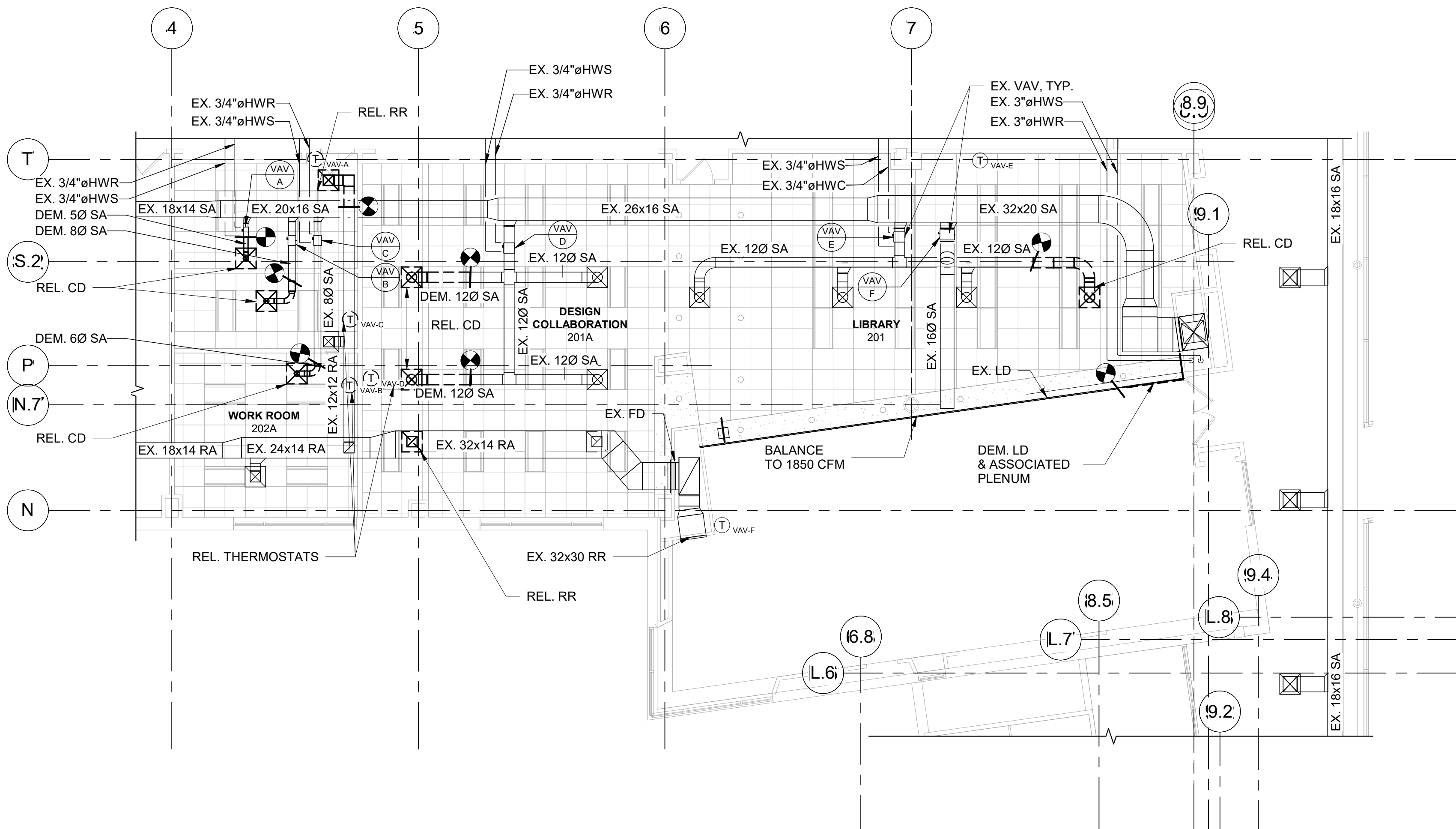


2 MECHANICAL THIRD FLOOR DEMOLITION PLAN

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

Notes:

1. PROVIDE PRE-DEMOLISHED CFM READINGS



1 MECHANICAL SECOND FLOOR DEMOLITION PLAN

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

Notes:

1. PROVIDE PRE-DEMOLISHED CFM READINGS

| DESIGNATION | VAV-1 | VAV-2 |
|-----------------------|-----------|----------|
| INLET SIZE | 8"Ø | 6"Ø |
| MINIMUM CFM | 100 | 65 |
| AVAILABLE RANGE (CFM) | 100 - 150 | 65 - 100 |
| MAX. DESIGN CFM | 150 | 100 |

NOTES:

1. VAV BOXES BASED ON TITUS MODEL DESV.
2. VAV BOXES SHALL BE SINGLE DUCT, COOLING ONLY OR COOLING/ELECTRIC HEATING AS INDICATED WITH DIGITAL ELECTRONIC PRESSURE INDEPENDENT CONTROLS.
3. BOXES SHALL BE PROVIDED WITH SHEETMETAL CONTROL ENCLOSURE BY TERMINAL MANUFACTURER.
4. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL VAV BOX CONTROLS
5. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCH AND TRANSFORMER FOR EACH BOX, BOX SHALL BE U.L. LISTED AND LABELED.
6. MAXIMUM RADIATED NC< 30, MAXIMUM DISCHARGE NC< 28.
7. BOXES SHALL HAVE 1" ACOUSTIC LINING.

| HVAC UNIT | FLOOR | ROOM NUMBER | ROOM NAME | GROSS AREA (SQ.FT.) | NO. OF OCCUPANTS PER 1000 SQ.FT. ^[4] | NO. OF OCCUPANTS ^[4] | MIN. CODE OUTDOOR AIR REQUIREMENT (BASED ON CFM PER PERSON) ^[2] | MIN CODE OUTDOOR AIR REQUIREMENT (BASED ON SQ.FT.) ^[3] | DESIGN SUPPLY AIR (CFM) | DESIGN OUTDOOR AIR (CFM) |
|-----------|--------|-------------|----------------------|---------------------|---|---------------------------------|--|---|-------------------------|--------------------------|
| AHU-2 | SECOND | 201 | LIBRARY | 2050 | 10 | 21 | 105 | 250 | 2850 | 355 |
| AHU-2 | SECOND | 201A | DESIGN COLLAB | 830 | 35 | 30 | 300 | 100 | 800 | 400 |
| AHU-2 | SECOND | 201B | COLLAB | 145 | 50 | 8 | 40 | 10 | 100 | 50 |
| AHU-2 | SECOND | 202 | COLLAB | 125 | 50 | 7 | 35 | 10 | 100 | 45 |
| AHU-2 | SECOND | 202A | WORKROOM | 570 | 35 | 20 | 200 | 70 | 850 | 270 |
| AHU-2 | SECOND | 202B | COLLAB | 130 | 50 | 7 | 35 | 10 | 150 | 45 |
| AHU-2 | THIRD | 301 | PRODUCTION LAB | 605 | 35 | 22 | 220 | 75 | 600 | 295 |
| AHU-2 | THIRD | 302 | PRODUCTION CLASSROOM | 585 | 35 | 21 | 210 | 70 | 600 | 280 |

MINIMUM CODE REQUIREMENTS:

1.) THE VENTILATION AIR SCHEDULE ABOVE MEETS OR EXCEEDS THE REQUIREMENTS FOR ALL SPACES BASED ON THE MECHANICAL CODE OF THE STATE OF NEW YORK, TABLE 403.3.

2.) THE MINIMUM OUTDOOR AIR REQUIREMENT PER PERSON:

AUDITORIUM = 15 CFM PER PERSON
CAFETERIA = 20 CFM PER PERSON
CLASSROOMS = 15 CFM PER PERSON
CONFERENCE ROOMS = 20 CFM PER PERSON
GYMNASIUM = 20 CFM PER PERSON
LIBRARY = 20 CFM PER PERSON
NURSING ROOM = 25 CFM PER PERSON
MUSIC CLASSROOM = 15 CFM PER PERSON
OFFICE SPACES = 20 CFM PER PERSON
RECEPTION AREA = 15 CFM PER PERSON
SCIENCE CLASSROOMS = 20 CFM PER PERSON
STAGE = 15 CFM PER PERSON
THEATER LOBBY = 20 CFM PER PERSON
TOILET ROOMS = 75 CFM PER WATER CLOSET OR URINAL

3.) THE MINIMUM OUTDOOR AIR REQUIREMENT PER/SF:

CORRIDORS = 0.1 CFM PER/SF
LOCKER ROOMS = 0.50 CFM PER/SF
STORAGE = 0.15 CFM PER/SF

4.) THE NUMBER OF OCCUPANTS IS BASED ON THE LOCAL SCHOOL DISTRICT ALLOWABLE CLASS SIZE, OR THE NUMBER OF PEOPLE PER SQ.FT. AS PER THE NY STATE MECHANICAL CODE, TABLE 403.3.

5.1. IN ROOMS WITH A PEAK OCCUPANCY OF LESS THAN THREE HOURS DURATION, THE OUTDOOR AIR VENTILATION RATE IS DETERMINED ON THE BASIS OF AVERAGE OCCUPANCY OVER THE DURATION OF THE OPERATION OF THE SYSTEM, OR NO LESS THAN FIFTY PERCENT OF MAXIMUM OCCUPANCY, WHICHEVER IS GREATER, AS PER ASHRAE 62, SECTION 6.1.3.4.

6.) THE SAMPLE CALCULATION BELOW IS FOR THE JUNIOR AUDITORIUM:

No. OF OCCUPANTS = 111
AVERAGE OCCUPANCY = 56 [NOTE 5]
OUTDOOR AIR REQUIREMENT = 15 CFM PER OCCUPANT
MIN CODE OUTDOOR AIR REQUIREMENT = $56 \times 15 = 840$ CFM

CHESTER UNION FREE
SCHOOL DISTRICT

64 HAMBLETONIAN AVENUE
CHESTER, NY 10918



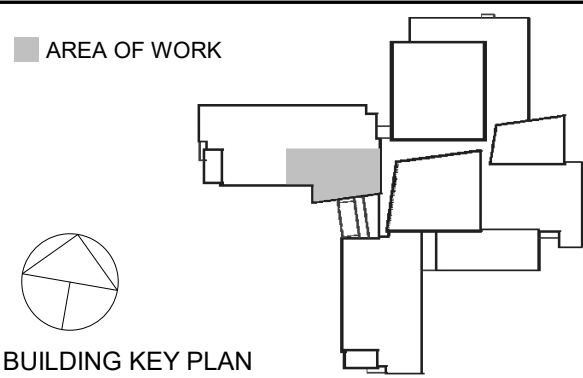
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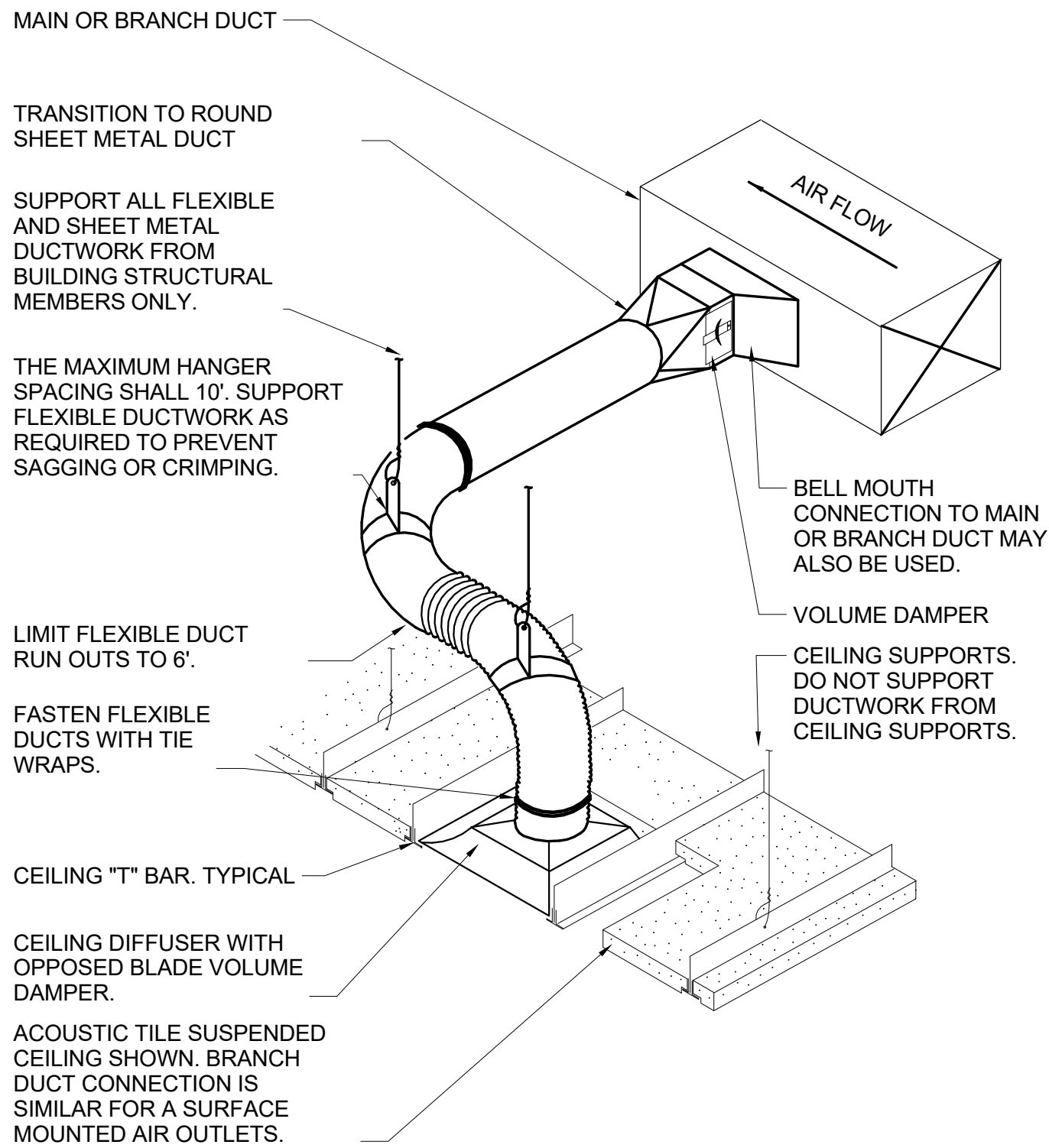
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MECHANICAL SCHEDULES

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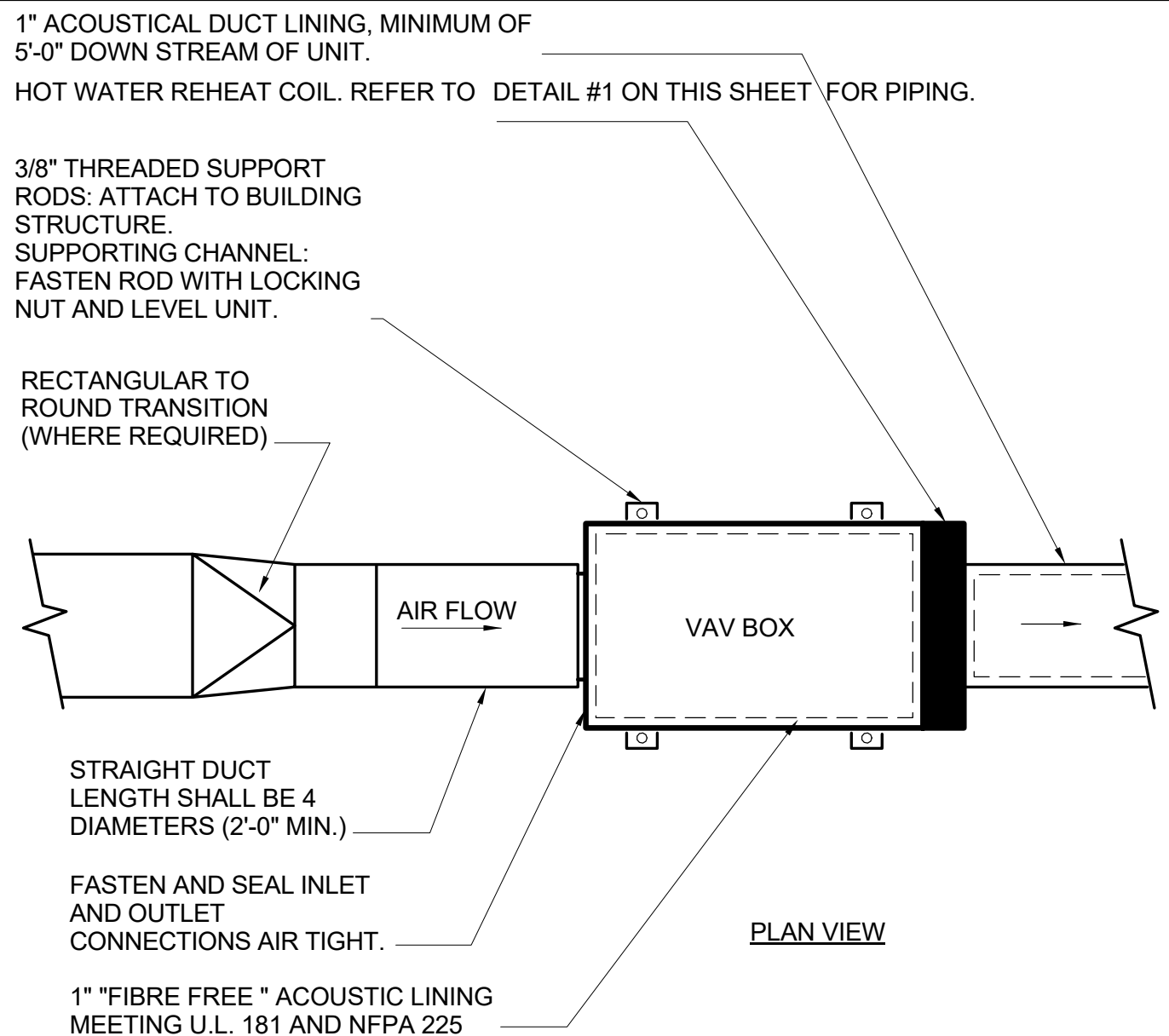
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- NOTES:
1. THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

7 FLEXIBLE DUCT CONNECTION DETAIL

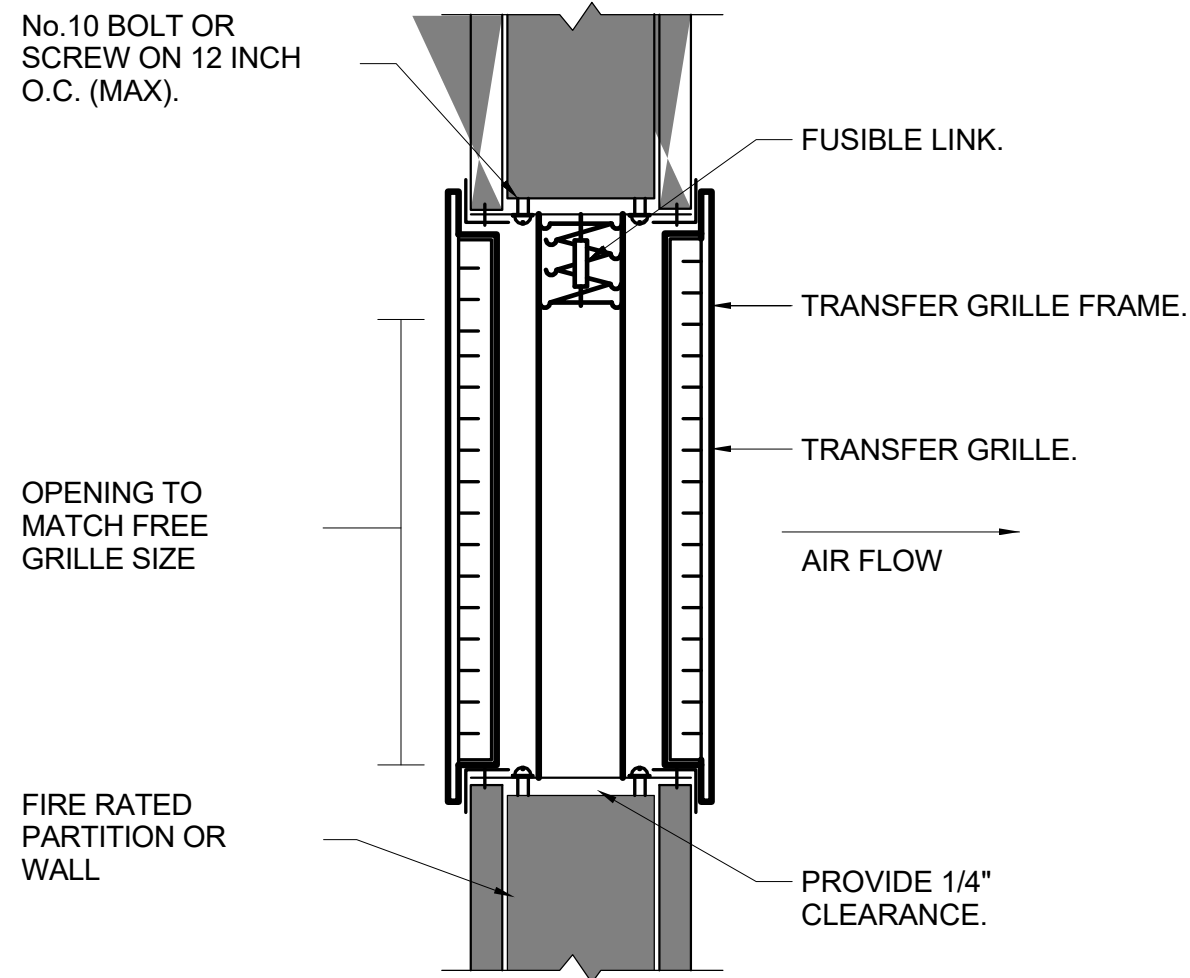
SCALE: NONE



- NOTES:
1. THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TO CLOSE TO MAIN DUCTS, ELBOWS AND FITTINGS.
 2. WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION.
 3. TERMINAL UNITS SHALL BE PROVIDED WITH CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS. FOR UNITS WITH ELECTRONIC CONTROLS FURNISH NEMA 1 RATED ENCLOSURE AND U.L. II TRANSFORMER AND DISCONNECT SWITCH.
 4. ARRANGE ACCESS TO PERMIT EASY FIELD BALANCING AND MAINTENANCE.
 5. COORDINATE THE LOCATION, SIZE, AND QUANTITY OF REQUIRED ACCESS DOORS. INDICATE REQUIREMENT IN SHEET-METAL SHOP DRAWING SUBMITTAL FOR COORDINATION WITH G.C.
 6. ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARDS AND APPEALS (BSA) APPROVAL.

VARIABLE AIR VOLUME (VAV) BOX INSTALLATION DETAIL

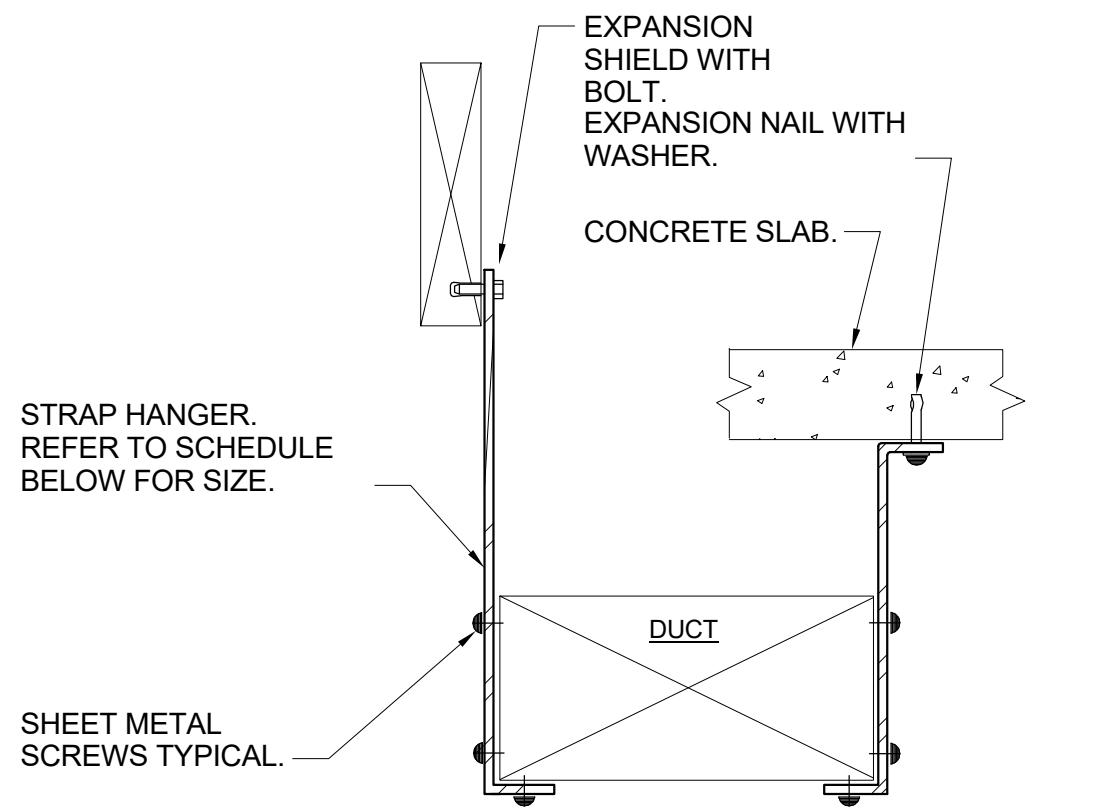
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- NOTES:
1. FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A UL LABELS.
 2. MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
 3. FIRE DAMPERS SHALL CONFORM TO N.Y.C. MANUFACTURING B.S. AND A. NUMBER 100-65 SM.

6 TRANSFER AIR FIRE DAMPER DETAIL

SCALE: NONE

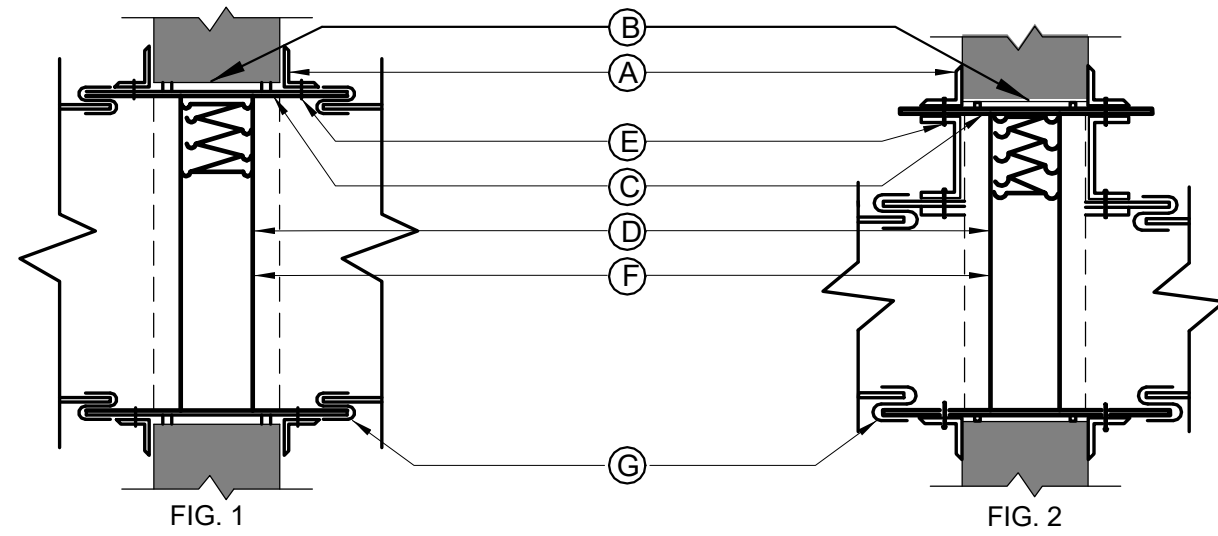


- NOTES:
1. FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
 2. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 3. ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

| HANGER STRAP SCHEDULE | | |
|-------------------------|-------------|-----------------|
| DUCT SIZE | HANGER SIZE | MAXIMUM SPACING |
| UP TO 2 SQ. FT. | 1" x 1/8" | 8'-0" |
| 2 SQ. FT. TO 4 SQ. FT. | 1" x 1/4" | 8'-0" |
| 4 SQ. FT. TO 10 SQ. FT. | 1" x 3/8" | 6'-0" |
| OVER 10 SQ. FT. | 1" x 1/2" | 4'-0" |

5 DUCT HANGER DETAIL

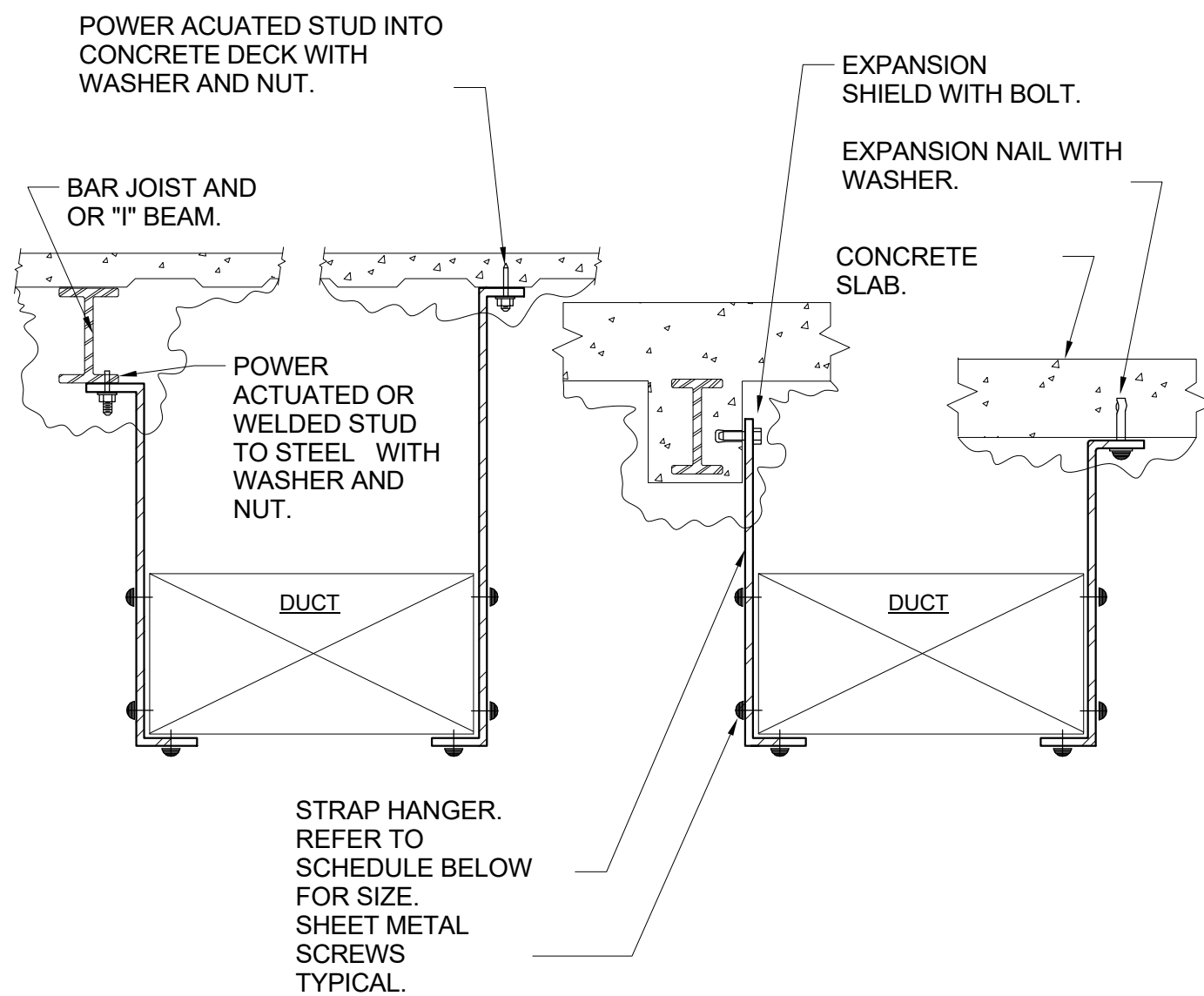
SCALE: NONE



- NOTES:
1. RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
 2. CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
 3. STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
 4. U.L. APPROVED FIRE DAMPER.
 5. SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 6. SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
 7. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.
 8. FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
 9. CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
 10. PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
 11. FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.
 12. FIRE DAMPERS SHALL CONFORM TO N.Y.C. MANUFACTURING B.S. AND A. NUMBER 100-65 SM.

4 SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL

SCALE: NONE

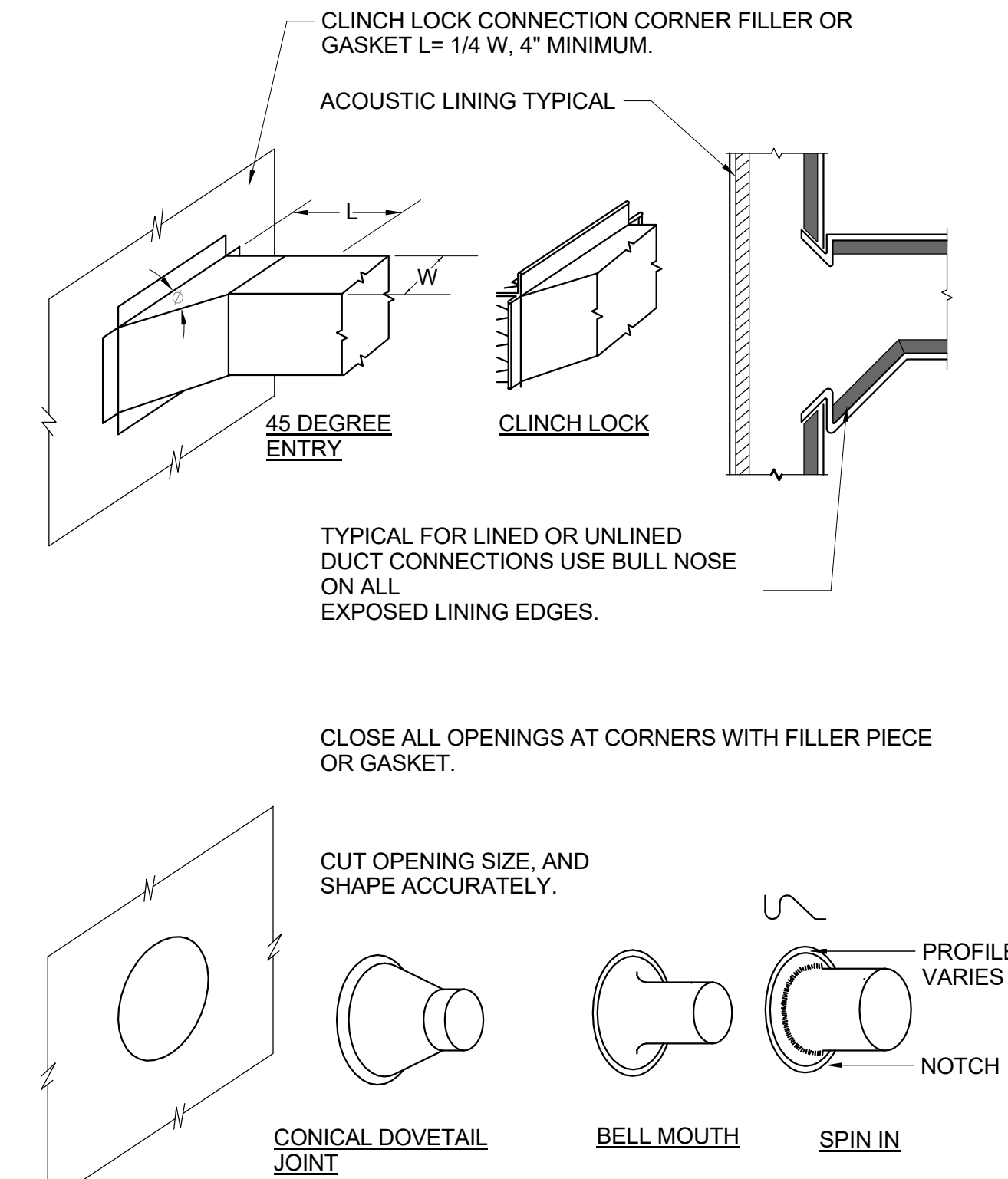


- NOTES:
1. FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
 2. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
 3. ALL ANCHORS AND INSERTS SHALL HAVE NEW YORK CITY BOARD OF STANDARD AND APPEALS, (BSA) APPROVAL.

| HANGER STRAP SCHEDULE | | |
|-------------------------|-------------|-----------------|
| DUCT SIZE | HANGER SIZE | MAXIMUM SPACING |
| UP TO 2 SQ. FT. | 1" x 1/8" | 8'-0" |
| 2 SQ. FT. TO 4 SQ. FT. | 1" x 1/4" | 8'-0" |
| 4 SQ. FT. TO 10 SQ. FT. | 1" x 3/8" | 6'-0" |
| OVER 10 SQ. FT. | 1" x 1/2" | 4'-0" |

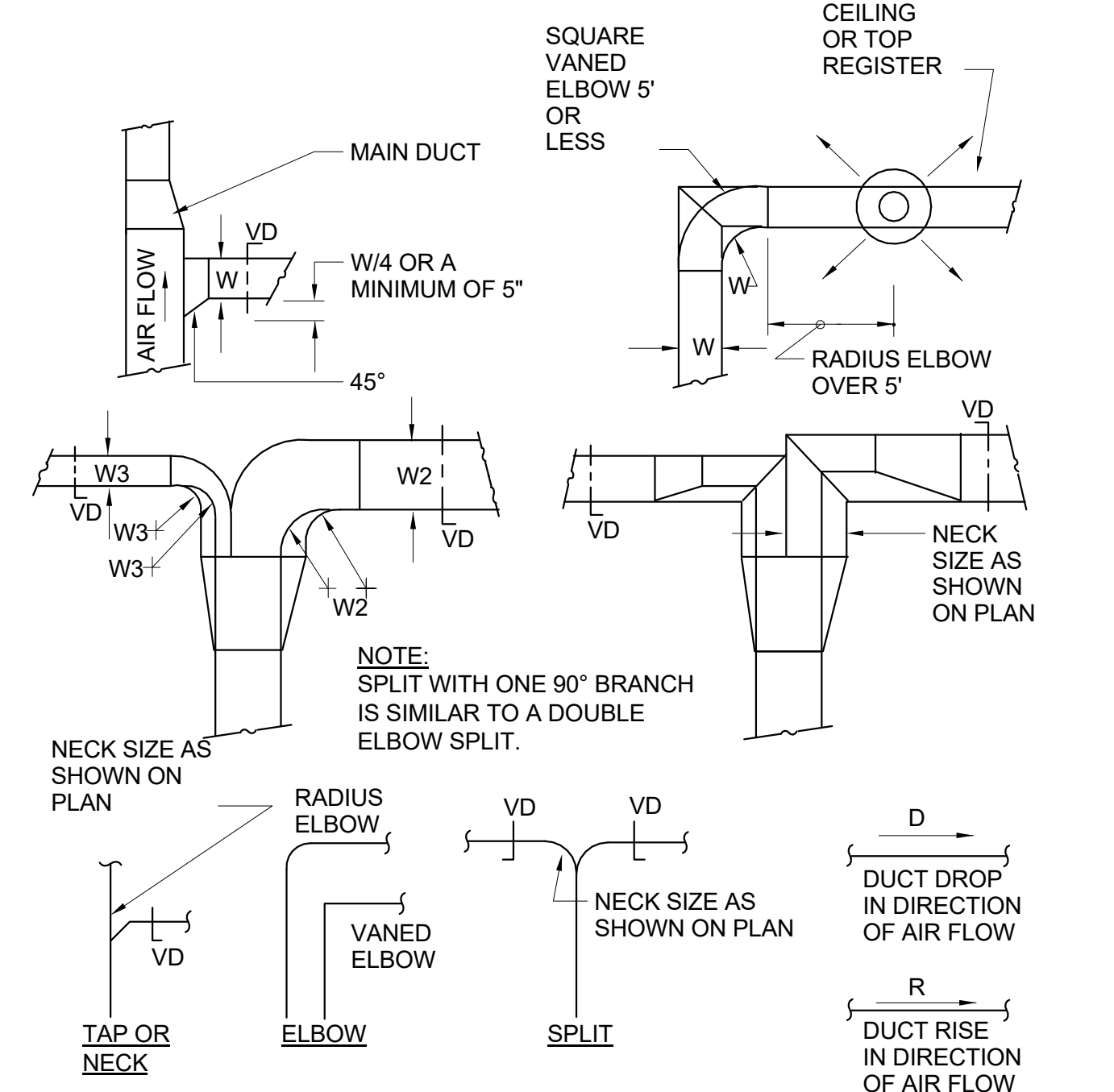
3 DUCT HANGER DETAIL

SCALE: NONE



2 DUCT BRANCH CONNECTION DETAIL

SCALE: NONE



- NOTES:
1. SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
 2. USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
 3. ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
 4. WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
 5. USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

1 DUCT BRANCH TAKE-OFF DETAIL

SCALE: NONE

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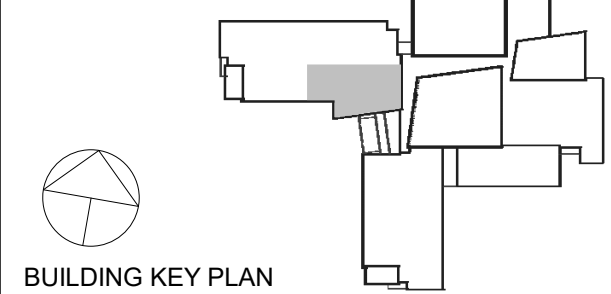
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AREA OF WORK



BUILDING KEY PLAN

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MECHANICAL DETAILS 1 OF 2

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| NKGO0245.00 | 05/25/2022 |
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| AS NOTED | Author Checker |

Sheet Number

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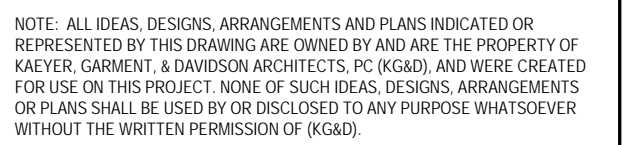
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A circular professional engineer seal for the State of New York. The outer ring contains the text "STATE OF NEW YORK" at the top and "LICENSED PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle features the text "BARBARA JILL WALSH" at the top and "075260" at the bottom. In the center is the coat of arms of the State of New York, which depicts a Native American holding a bow and arrow, with a sun rising behind a mountain range.



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Professional Seal

Sheet Title

Sheet Number

FIELD OR FACTORY FABRICATED PIPE ASSEMBLY

WOOD NAILER

PREFABRICATED ROOF CURB

ROOF INSULATION

ROOF MEMBRANE

CONCRETE ROOF DECK

OPENING FOR DUCT PENETRATIONS SHALL BE WITHIN 1/8" OF OUTSIDE DIMENSION.

DUCTWORK

SEAL PENETRATIONS WATER TIGHT WITH FLASHING AND COUNTERFLASHING AS REQUIRED.

EPDM MEMBRANE FLASHING FASTENED TO WOOD NAILER.

2" RAISED CANT.

SUPPORT DUCTWORK AS PER SPECIFICATIONS.

NOTES:

1. PREFABRICATED ROOF CURB AND BOX ASSEMBLY BASED ON CUSTOM CURB INC. MODEL CP8A-1 CUSTOM ROOF CURB BOX ASSEMBLY WITH 1.5 INCH THICK 3.5 POUND RIGID INSULATION, 18 GAGE GALVANIZED STEEL SHELL, AND BASE PLATE. AND 0.050 ALUMINUM PIPE BOX.
2. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ALL OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.
3. ALL WORK ON THE EXISTING ROOF MUST BE PERFORMED BY AN AUTHORIZED CONSULTANT/APPLICATOR FOR THE ROOFING SYSTEM TO MAINTAIN THE EXISTING WARRANTY.

9 ROOF DUCT BOX DETAIL
SCALE: NONE

CHESTER ACADEMY
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SCHOOL DISTRICT

64 HAMBLETONIAN AVENUE
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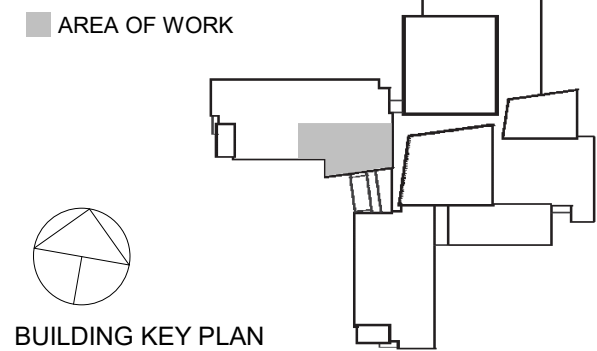
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ELECTRICAL
PLANS -
DEMOLITION

Job No. NKGD0245.00 Date 05/18/2022

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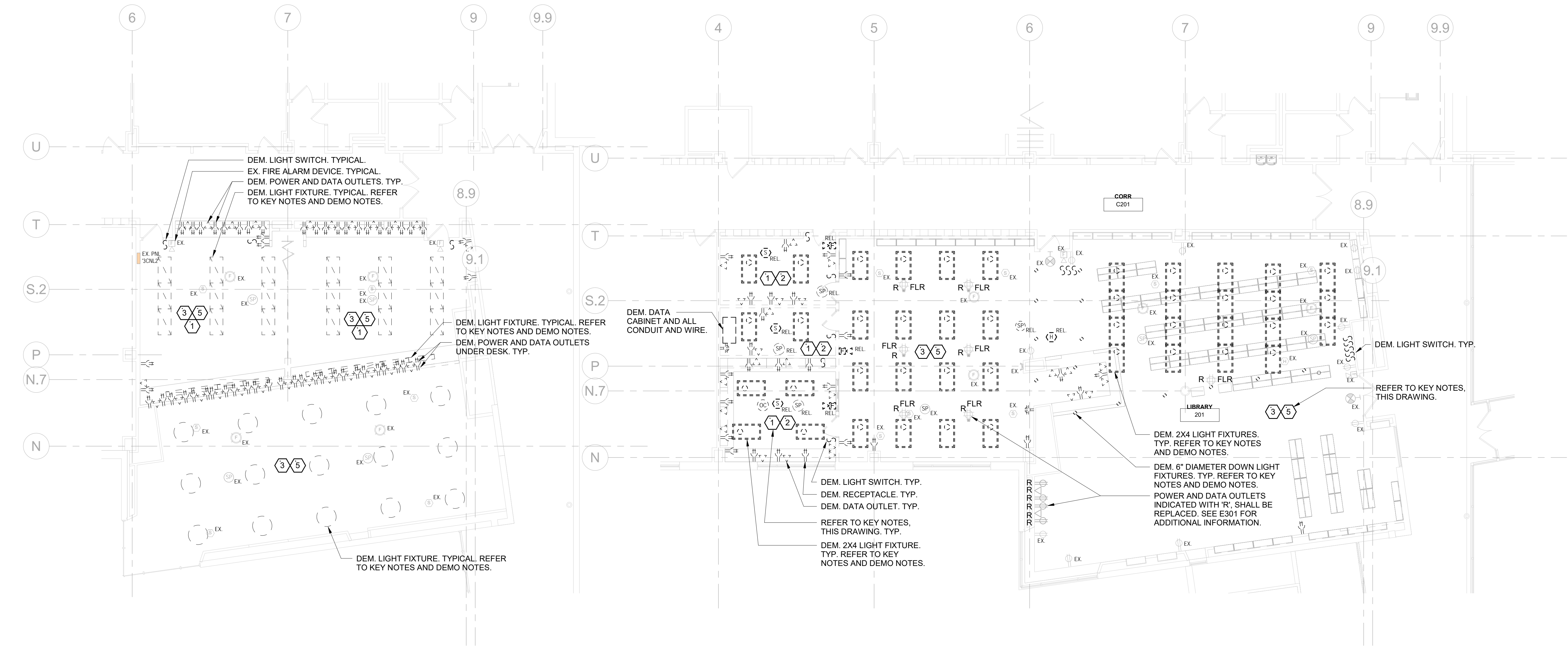
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DEMOLITION KEY NOTES

- DEMOLISH ALL ELECTRICAL FIXTURES AND DEVICES IN THIS ROOM INCLUDING LIGHT FIXTURES, LIGHT SWITCHES, OCCUPANCY SENSORS, RECEPTACLES, DATA/TELEPHONE OUTLETS AND CABLE OUTLETS. MAINTAIN WIRING FOR NEW FIXTURES AND DEVICES AS REQUIRED. TRACE CIRCUITRY AS NEEDED TO VERIFY EXACT CIRCUIT NUMBER AND QUANTITY OF DEVICES ON EACH CIRCUIT. NO MORE THAN 6 RECEPTACLES SHALL BE ON A SINGLE 20-AMP BRANCH CIRCUIT. IDENTIFY AND TAG EACH NEW DEVICE WITH ASSOCIATED PANEL NAME AND CIRCUIT NUMBER PER SPECIFICATIONS. SEE E-301 FOR ADDITIONAL INFORMATION.
- REMOVE, STORE, AND REINSTALL FIRE-ALARM DEVICES AND PUBLIC ADDRESS DEVICES IN THIS ROOM, INCLUDING SMOKE DETECTOR(S), SPEAKER, STROBE(S) AND PUBLIC ADDRESS SPEAKERS IN ORDER TO ACCOMMODATE DEMOLITION AND INSTALLATION OF CEILING AND WALLS. EXTEND AND/OR MODIFY WIRING AS NEEDED TO REINSTALL DEVICES.
- DEMOLISH ALL LIGHT FIXTURES IN THIS ROOM/AREA AND REMOVE WIRE AND CONDUIT BACK TO SOURCE. EXISTING WALL MOUNTED EXIT SIGNS SHALL REMAIN.
- NOT USED.
- ALL EXISTING FIRE-ALARM DEVICES AND PUBLIC ADDRESS SPEAKERS IN THIS ROOM/AREA SHALL REMAIN U.O.N..

DEMOLITION NOTES

- ALL EQUIPMENT SHALL BE DISCONNECTED AND ALL ASSOCIATED WIRE AND CONDUIT SHALL BE REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY.
- CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
- ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, ETC. SHALL BE REMOVED UON.
- ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
- THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES.
- REMOVE, STORE, AND REINSTALL CEILING TILES AND DEVICES AS NEEDED TO ACCOMMODATE ELECTRICAL WORK. REPLACE CEILING TILES WHICH BECOME DAMAGED DURING THE COURSE OF WORK.
- PATCH AND REPAIR ALL OPENINGS AFTER REMOVAL OF DEVICES AND EQUIPMENT. SEE NOTES ON DRAWING E001 FOR ADDITIONAL INFORMATION.



3RD FLOOR DEMO PLAN
SCALE: 1/8" = 1'-0"

2ND FLOOR - DEMO PLAN
SCALE: 1/8" = 1'-0"

NOTES

1. LIGHTS INDICATED AS EMERGENCY (EM) SHALL CONTAIN INTEGRAL OR REMOTE BATTERY PACK AND EMERGENCY TEST SWITCH. THESE FIXTURES SHALL BE INSTALLED SO THAT UNDER NORMAL CONDITIONS THEY ARE CONTROLLED WITH ADJACENT AREA/ROOM LIGHTS, AND IN THE EVENT OF A POWER OUTTAGE, THEY AUTOMATICALLY ILLUMINATE FOR 90 MINUTES. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E601 FOR ADDITIONAL INFORMATION. PROVIDE CONSTANT HOT SENSING CIRCUIT TO MONITOR UTILITY VOLTAGE. PROVIDE UL924 POWER PACKS COMPATIBLE WITH LOCAL LOW VOLTAGE CONTROL SYSTEM.
2. REMOVE, STORE, AND REINSTALL CEILING TILES AND EXISTING CEILING MOUNTED DEVICES AS NEEDED TO ACCOMMODATE ELECTRICAL WORK. REPLACE CEILING TILES WHICH BECOME DAMAGED DURING THE COURSE OF WORK.
3. PROVIDE CUTTING, PATCHING AND PAINTING AS NEEDED TO FACILITATE DEMOLITION AND INSTALLATION OF ELECTRICAL WORK TO MATCH SURROUNDING AREA.
4. PROVIDE 1P-20A CIRCUIT BREAKER IN ASSOCIATED PANEL FOR NEW LIGHTING CIRCUITS AS INDICATED.
5. LIGHT FIXTURES IN WORK ROOM 202A, COLLAB 202 AND COLLAB 202B SHALL BE CONNECTED TO EXISTING CIRCUIT. EXTEND/MODIFY EXISTING CIRCUIT AS NEEDED. CONFIRM VOLTAGE PRIOR TO ORDERING AND INSTALLING COMPONENTS. REFER TO DRAWING E-101 FOR ADDITIONAL INFORMATION.
6. LIGHTING CONTROL COMPONENTS ARE SHOWN FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPONENTS (SWITCHES, SENSORS, POWER PACKS), WIRING (LINE, LOW VOLTAGE, DIMMING) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH BUILDING MANAGEMENT FOR PROGRAMMING FUNCTIONALITY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES. ALL LIGHT FIXTURES AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.
8. PROVIDE CEILING MOUNTED FIRE-ALARM DEVICES (SMOKED DETECTORS, SPEAKERS) AND PUBLIC ADDRESS SPEAKERS AS INDICATED. CONNECT TO EXISTING SYSTEMS. EXTEND WIRING AS REQUIRED. PROVIDE ALL PROGRAMMING.

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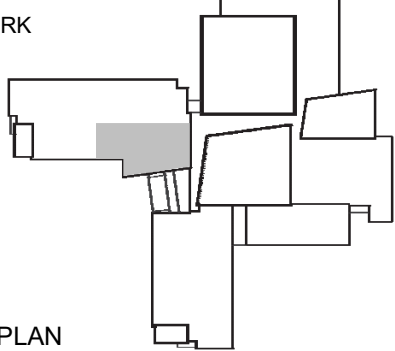
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BUILDING KEY PLAN

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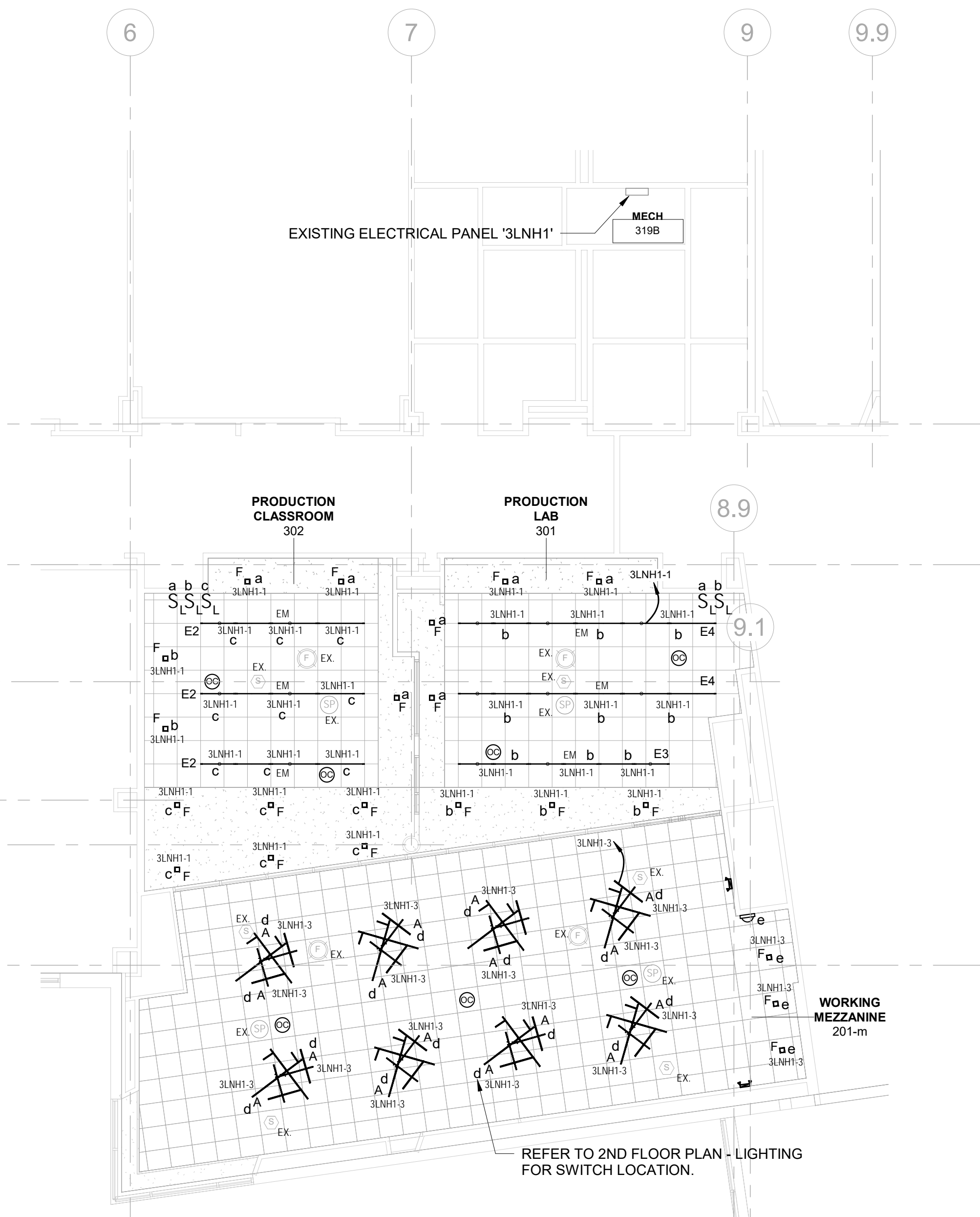
ELECTRICAL
PLANS -
LIGHTING

Job No. NKGD0245.00 Date 05/18/2022

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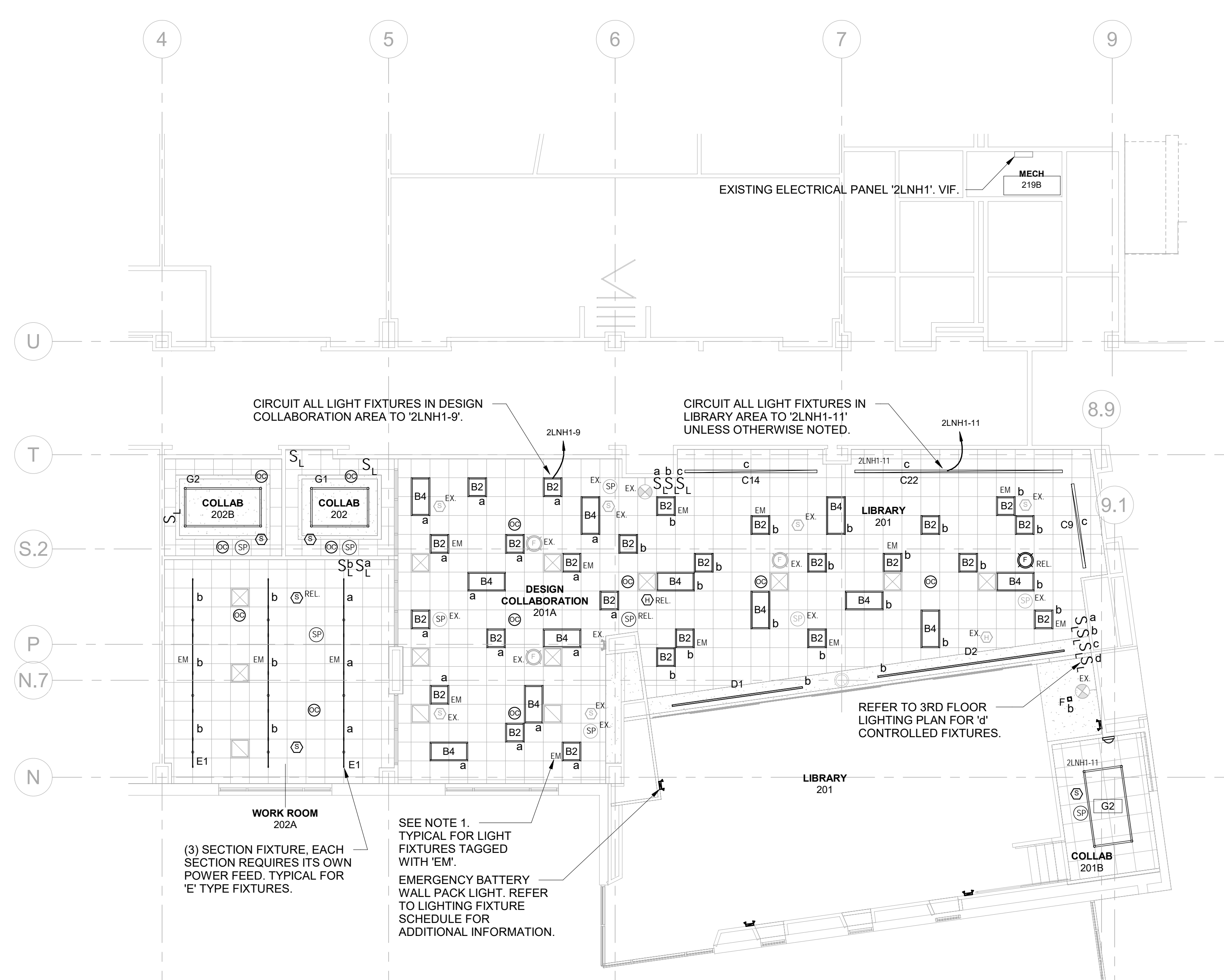
Sheet Number

E201



3RD FLOOR - LIGHTING

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



2ND FLOOR PLAN - LIGHTING

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

NOTES

- PROVIDE 3P-60AMP CIRCUIT BREAKER IN EXISTING ELECTRICAL PANEL '2LNL1', POSITIONS 30,32,34, LOCATED IN 2ND FLOOR ELECTRICAL ROOM. PROVIDE 4-#4 & 1-#10 GND IN 1-1/4"C FROM EXISTING PANEL '2LNL1' TO SERVE PANEL '3LNL3' LOCATED IN 3RD FLOOR PRODUCTION CLASSROOM 302.
- ELECTRICAL PANEL '3LNL3' SHALL BE PROVIDED WITH SHUNT TRIP MAIN CIRCUIT BREAKER. PANEL SHALL SERVE CNC ROUTER, CNC MILLING MACHINES AND LASER CUTTERS. PANEL SHALL AUTOMATICALLY INTERRUPT POWER TO ALL ASSOCIATED BRANCH CIRCUIT LOADS UPON ACTIVATION OF EPO PUSH BUTTONS. REFER TO PANEL SCHEDULE ON DWG E-601 FOR ADDITIONAL INFORMATION. PROVIDE SHUNT TRIP POWER, WIRING, PUSH BUTTONS AND CONTACTS AS REQUIRED. REFER TO DETAIL 5 ON DWG E701.
- RECEPTACLES DENOTED WITH THE LETTER 'R' SHALL BE REPLACED. REPLACE ADJACENT DATA OUTLETS AS APPLICABLE. PROVIDE NEW STAINLESS STEEL FACE PLATES. MAINTAIN CONTINUITY OF CIRCUIT AND EXTEND/MODIFY EXISTING CIRCUIT AS NEEDED IN ORDER TO ACCOMMODATE DEVICES BEING DEMOLISHED.
- ALL NEW RECEPTACLES INDICATED WITHOUT A CIRCUIT NUMBER SHALL BE CONNECTED TO ADJACENT RECEPTACLE CIRCUIT AND/OR RECEPTACLE CIRCUITS MADE AVAILABLE DURING DEMOLITION. EXTEND WIRING AS NEEDED. TRACE EXISTING CIRCUIT TO VERIFY CIRCUIT NUMBER AND QUANTITY OF RECEPTACLES ON THE ASSOCIATED CIRCUIT. NO MORE THAN 6 RECEPTACLES SHALL BE CONNECTED TO A 20-AMP BRANCH CIRCUIT. SPECIAL DEVICES SUCH AS PRINTERS SHALL BE ON A DEDICATED CIRCUIT U.O.N..
- ALL NEW RECEPTACLES SHALL BE GRAY AND SHALL BE PROVIDED WITH STAINLESS STEEL COVER PLATES TO MATCH EXISTING.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING EXACT DEVICE LOCATIONS, MOUNTING HEIGHTS AND LAB EQUIPMENT LAYOUTS/SCHEDULES. UPDATE ALL PANEL DIRECTORIES FOR ALL ELECTRICAL PANELS TO INCLUDE THE CORRESPONDING ROOM NAME/NUMBER AND SPECIFIC DEVICE/EQUIPMENT WHICH IT SERVES.
- PROVIDE (5) RECEPTACLES AND DATA OUTLETS UP HIGH FOR (10) 3D PRINTERS ON NORTH WALL OF PRODUCTION CLASSROOM 302, PROVIDE EACH RECEPTACLE WITH DEDICATED CIRCUIT AS INDICATED. PROVIDE (4) RECEPTACLES AND DATA OUTLETS BELOW DESK FOR WORKSTATIONS. CONNECT WORKSTATION RECEPTACLES TO EXISTING CIRCUITS MADE AVAILABLE DURING DEMOLITION.
- CONNECT NEW FIRE ALARM DEVICES TO EXISTING SYSTEM. EXTEND WIRING AS NEEDED AND PROVIDE PROGRAMMING.

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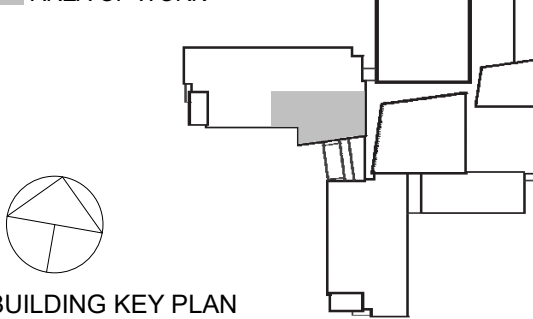
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ELECTRICAL PLANS - POWER


| | | | |
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| Sheet Number | | E301 | |



3RD FLOOR PLAN - POWER SCALE: 1/8" = 1'-0"



2ND FLOOR PLAN - POWER SCALE: 1/8" = 1'-0"

| LIGHTING FIXTURE SCHEDULE | | | | | | | |
|---|------------------------|---|-------------------|--------------------|----------|--------|--|
| FIXTURE DESIGNATION | MANUFACTURER | CATALOG NUMBER | LAMPS | VOLTS | MOUNTING | LUMENS | REMARKS |
| A | ARTEMIDE ARCHITECTURAL | USC-M-119-2-2-8-H-00-LA-TV | LED 3000K 60 [W] | 120-277 | PENDANT | 2586 | KAO KIT B LED SUSPENSION AT DOUBLE HEIGHT LIBRARY SPACE (2 FIXTURES OVERLAP). |
| B2 | NULITE | BRM4-22-30-L30-U-D-WH | LED 3000K 28[W] | 120-277 | RECESSED | 3000 | 2x2 LED TROFFER. PROVIDE INTEGRAL 10 WATT BATTERY PACK WHERE NOTED ON PLANS AS 'EM'. |
| B4 | NULITE | BRM4-24-35-L30-U-D-WH | LED 3000K 32[W] | 120-277 | RECESSED | 3500 | 2x4 LED TROFFER. PROVIDE INTEGRAL 10 WATT BATTERY PACK WHERE NOTED ON PLANS AS 'EM'. |
| C9 | ELLIPTIPAR | S531-R09L-S-02-M-0B-0-830-ZX WITH VER-02-48-0 AND ADE51-02-0 | LED 3000K 61[W] | 120-277 | SURFACE | 6114 | LED STACK LIGHT - STYLE S531: 9FT |
| C14 | ELLIPTIPAR | S531-MOD14 R09L-S-02-M-0B-0-830-ZX WITH VER-02-48-0 AND ADE51-02-0 | LED 3000K ??[W] | 120-277 | SURFACE | 6114 | LED STACK LIGHT - STYLE S531: 14FT mod (SIMILAR TO C9 BUT 14' IN LENGTH) |
| C22 | ELLIPTIPAR | S531-MOD22 R09L-S-02-M-0B-0-830-ZX WITH VER-02-48-0 AND ADE51-02-0 | LED 3000K ??[W] | 120-277 | SURFACE | 6114 | LED STACK LIGHT - STYLE S531: 22FT mod (SIMILAR TO C9 BUT 22' IN LENGTH) |
| D1 | PRECISE LED | ZNLT-NC2-2G-168-2ZGBL-24V-95C-30K-CLNS-2G-ZO | LED 3000K 56[W] | 24 (120-277 INPUT) | RECESSED | 3780 | ZENLIGHT NC2-2G- LED SYSTEM IN DRYWALL CEILINGS: 14FT |
| D2 | PRECISE LED | ZNLT-NC2-2G-240-2ZGBL-24V-95C-30K-CLNS-2G-ZO | LED 3000K 80[W] | 24 (120-277 INPUT) | RECESSED | 5400 | ZENLIGHT NC2-2G- LED SYSTEM IN DRYWALL CEILINGS: 20FT |
| E1 | DELRAY | SLTR4-6-H0-W30-D-SLRDTB SLTM4-8-H0-W30-D-SLRDTB-EM SLTL4-6-H0-W30-D-SLRDTB | LED 3000K 140[W] | 120-277 | PENDANT | 14432 | ADJUSTABLE LED SINGLE LAMP PENDANT: 20FT. 6FT RIGHT, 8FT MIDDLE AND 6FT LEFT. CONNECT TOGETHER WITH AN STJR PIECE BETWEEN EACH |
| E2 | DELRAY | SLTR4-6-H0-W30-D-SLRDTB SLTL4-8-H0-W30-D-SLRDTB-EM | LED 3000K 98[W] | 120-277 | PENDANT | 10102 | ADJUSTABLE LED SINGLE LAMP PENDANT: 14FT. 6FT RIGHT, 8FT LEFT. CONNECT TOGETHER WITH AN STJR PIECE BETWEEN EACH |
| E3 | DELRAY | SLTR4-8-H0-W30-D-SLRDTB SLTM4-8-H0-W30-D-SLRDTB-EM SLTL4-2-H0-W30-D-SLRDTB | LED 3000K 126[W] | 120-277 | PENDANT | 12987 | ADJUSTABLE LED SINGLE LAMP PENDANT: 18FT. 8FT RIGHT, 8FT MIDDLE AND 2FT LEFT. CONNECT TOGETHER WITH AN STJR PIECE BETWEEN EACH |
| E4 | DELRAY | SLTR4-6-H0-W30-D-SLRDTB SLTM4-8-H0-W30-D-SLRDTB-EM SLTL4-8-H0-W30-D-SLRDTB | LED 3000K 154[W] | 120-277 | PENDANT | 15874 | ADJUSTABLE LED SINGLE LAMP PENDANT: 22FT. 6FT RIGHT, 8FT MIDDLE AND 8FT LEFT. CONNECT TOGETHER WITH AN STJR PIECE BETWEEN EACH |
| F | PRECISE LED | NVTN-3-SH-23W-30K-90C-3G-60D-ST1-AT-SO WITH NVTN-3-TRIM -BS-WH-ADPT-SQ-UNV-3G | LED 3000K 23[W] | 120-277 | RECESSED | 2120 | NOVATION LED 3 INCH SHALLOW DOWN. MOUNTED AT GYP AND ACT CEILINGS. |
| G1 | LF ILLUMINATION | (2)GSA-05L-9030-LN-048-SS (2)GSA-05L-9030-LN-072-SS WITH (4)GSA-2WY-SS | LED 3000K 5[W/ft] | 120-277 | PENDANT | 400/FT | 4FT X 6FT LAYOUT. LIGHTING TO INCLUDE ALL APPROPRIATE ACCESSORIES NEEDED FOR INSTALLATION. |
| G2 | LF ILLUMINATION | (2)GSA-05L-9030-LN-048-SS (2)GSA-05L-9030-LN-096-SS WITH (4)GSA-2WY-SS | LED 3000K 5[W/ft] | 120-277 | PENDANT | 400/FT | 4FT X 8FT LAYOUT. LIGHTING TO INCLUDE ALL APPROPRIATE ACCESSORIES NEEDED FOR INSTALLATION. |
|  | LITHONIA LIGHTING | ELM2-LED | LED 3[W] | 120-277 | SURFACE | | DUAL HEAD EMERGENCY BATTERY WALL PACK LIGHT. MATCH FINISHES OF EXISTING EMERGENCY LIGHTS. |

NOTES:

- VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
- LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY AND SHALL CONTAIN A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH EM LIGHT FIXTURE SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM. PROVIDE CONSTANT HOT SENSING CIRCUIT FOR UTILITY POWER SENSING AND CONNECT TO ASSOCIATED LOCAL LIGHTING CIRCUIT, AHEAD OF ALL CONTROLS.
- EMERGENCY WALL PACKS SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT.
- PROVIDE DRIVERS REQUIRED TO OPERATE LIGHT FIXTURES.
- IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS.

| 3LNL3 PANEL SCHEDULE | | | | | | | | | |
|--|-------------------------|-----------|-------------------|--------------|-----------|---------------------|--------------------|--|--|
| MAIN RATING: 100A | | | MAIN C.B.: 60A ST | | | KAIC RATING: 10KAIC | | | |
| VOLTAGE: 208Y/120V | | | PHASE: 3 | | WIRE: 4 | | MOUNTING: RECESSED | | |
| CIRC. NO. | LOAD DESCRIPTION | BKR. AMPS | NO. OF POLES | NO. OF POLES | BKR. AMPS | LOAD DESCRIPTION | CIRC. NO. | | |
| 1 | COUNTER CNC ROUTER | 20 | 1 | 1 | 20 | LASER AND COOLBOX | 2 | | |
| 3 | LASER AND COOLBOX | 20 | 1 | 1 | 20 | LASER AND COOLBOX | 4 | | |
| 5 | LASER AND COOLBOX | 20 | 1 | 1 | 20 | LASER AND COOLBOX | 6 | | |
| 7 | LASER AND COOLBOX | 20 | 1 | 1 | 20 | CNC MILLING MACHINE | 8 | | |
| 9 | CNC MILLING MACHINE | 20 | 1 | 1 | 20 | CNC MILLING MACHINE | 10 | | |
| 11 | SHOP VAC FOR CNC ROUTER | 20 | 1 | 1 | 20 | SPARE | 12 | | |
| 13 | SPARE | 20 | 1 | 1 | 20 | SPARE | 14 | | |
| 15 | SPARE | 20 | 1 | 1 | 20 | SPARE | 16 | | |
| 17 | SPARE | 20 | 1 | 1 | 20 | SPARE | 18 | | |
| 19 | SPARE | 20 | 1 | 1 | 20 | SPARE | 20 | | |
| 21 | - | - | - | - | - | - | 22 | | |
| 23 | - | - | - | - | - | - | 24 | | |
| 25 | - | - | - | - | - | - | 26 | | |
| 27 | - | - | - | - | - | - | 28 | | |
| 29 | - | - | - | - | - | - | 30 | | |
| LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B. | | | | | | | | | |
| NOTES: 1.) PROVIDE SHUNT TRIP MAIN CIRCUIT BREAKER. 3.) PROVIDE WITH INTEGRAL SPD. | | | | | | | | | |

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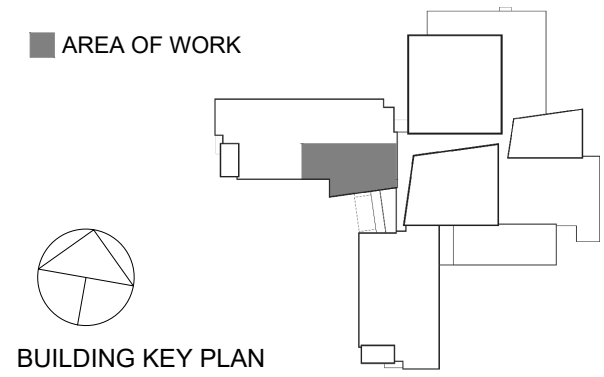
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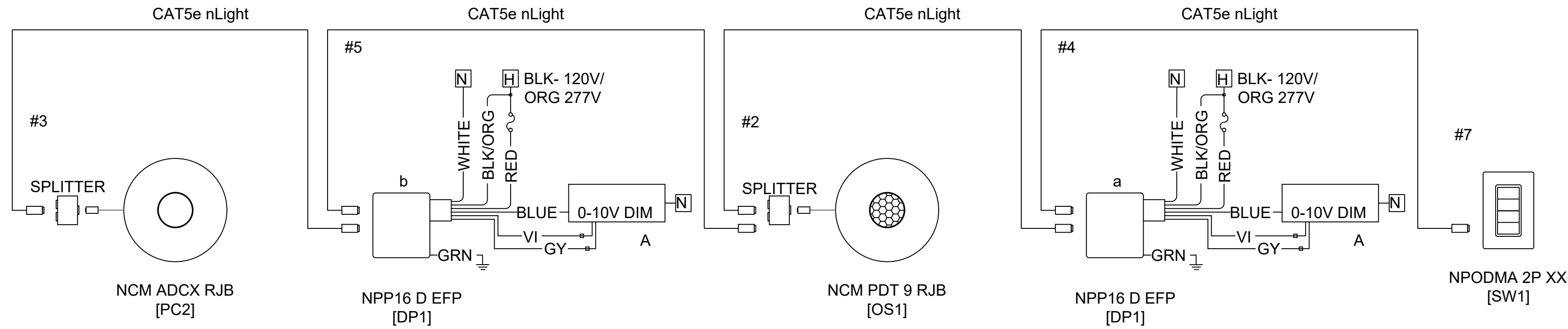
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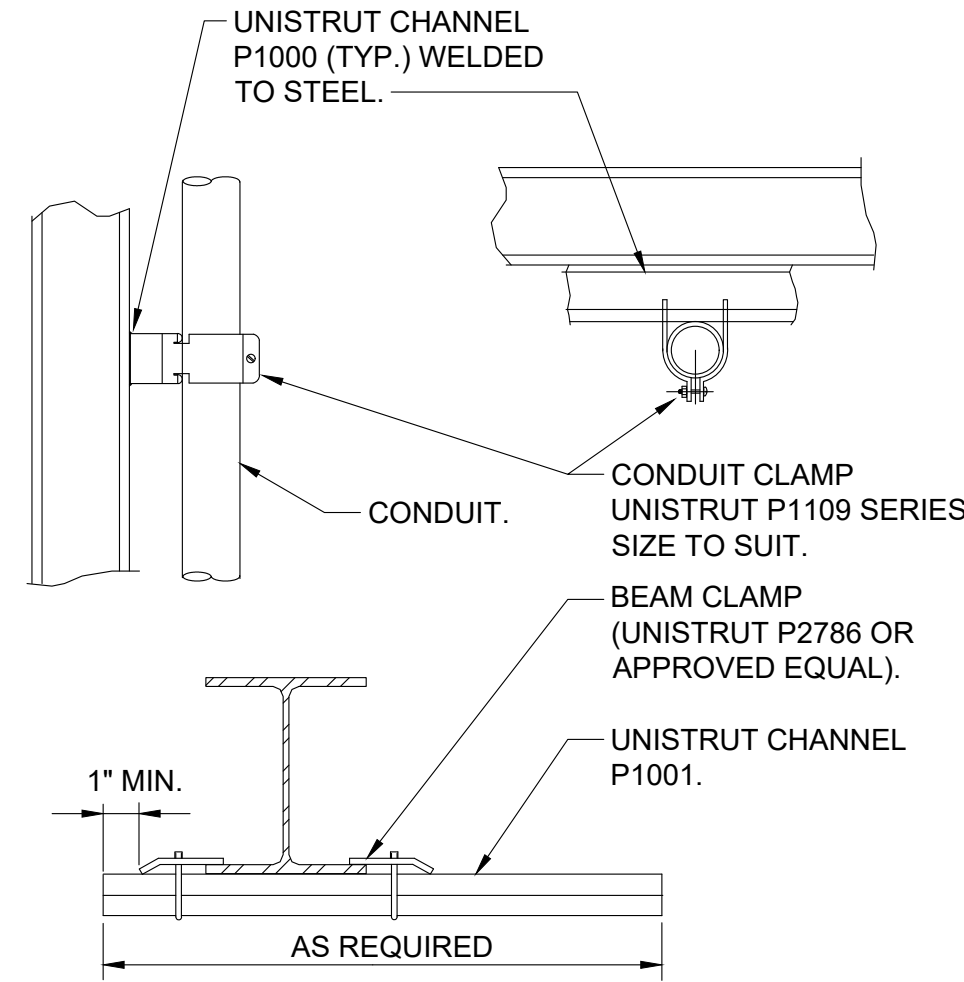
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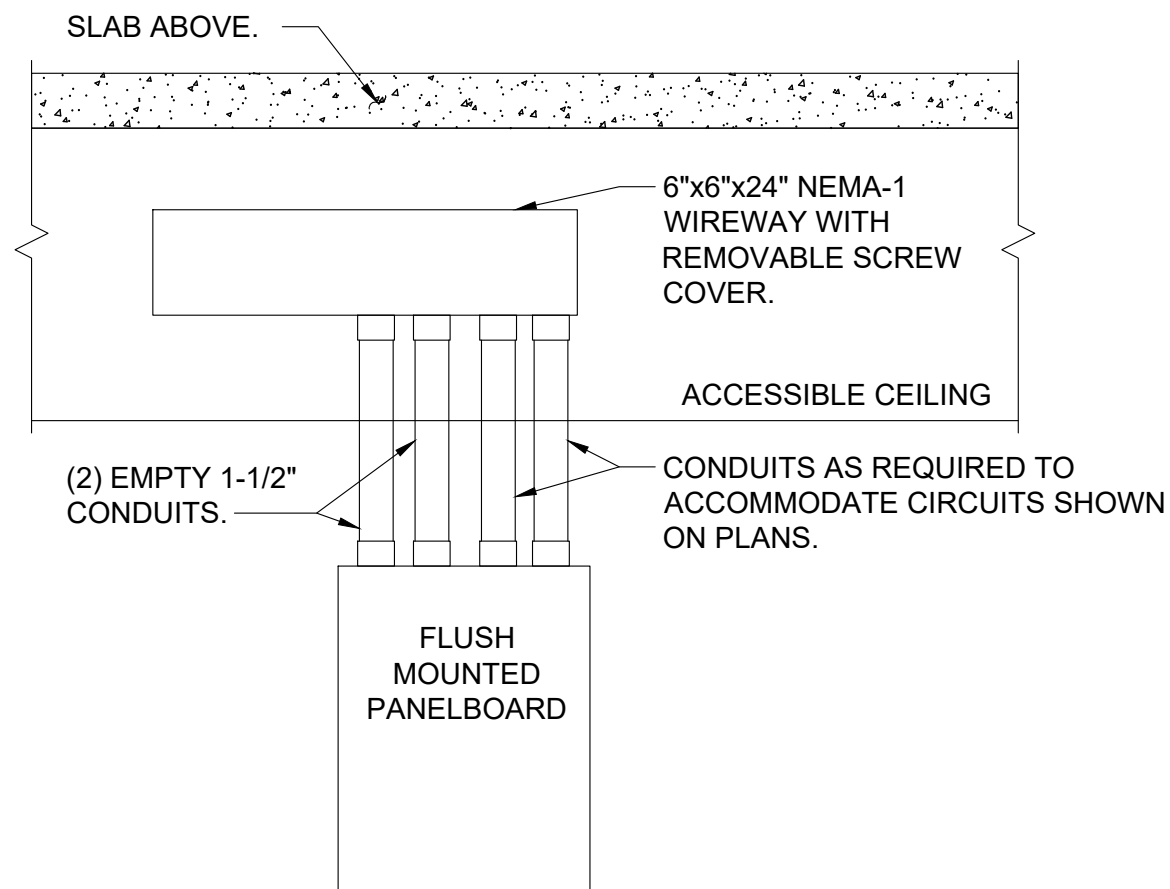
E601



6 TYPICAL LIGHTING CONTROL SCHEMATIC DIAGRAM
SCALE: NONE

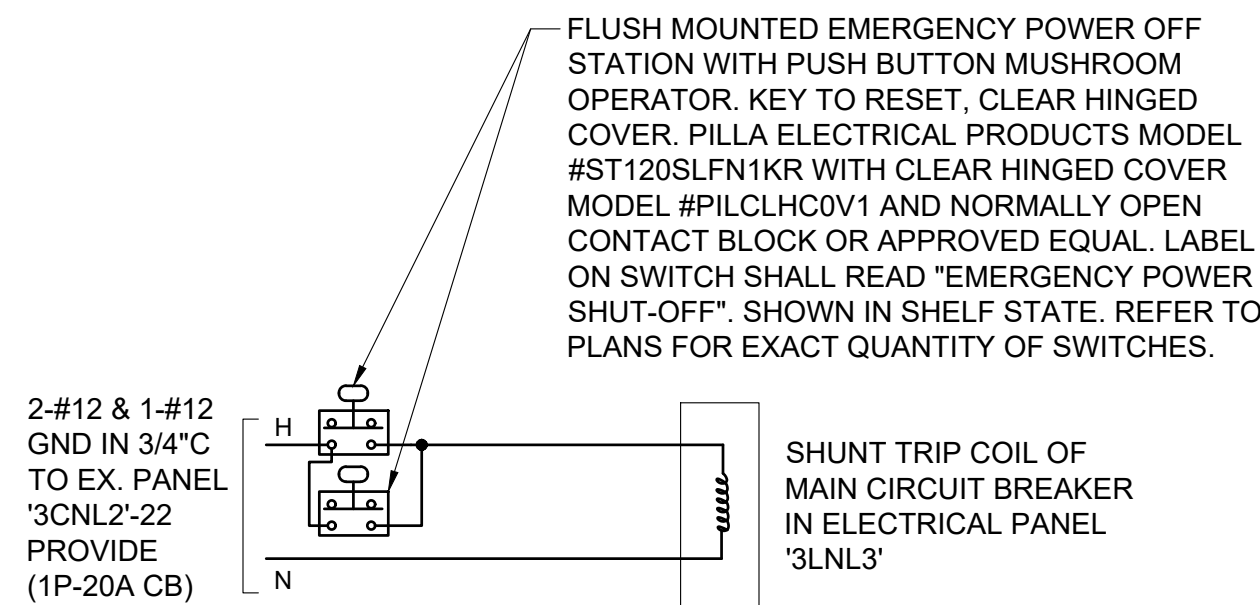


3 CONDUIT SUPPORTED FROM STRUCTURAL STEEL DETAIL
SCALE: NONE



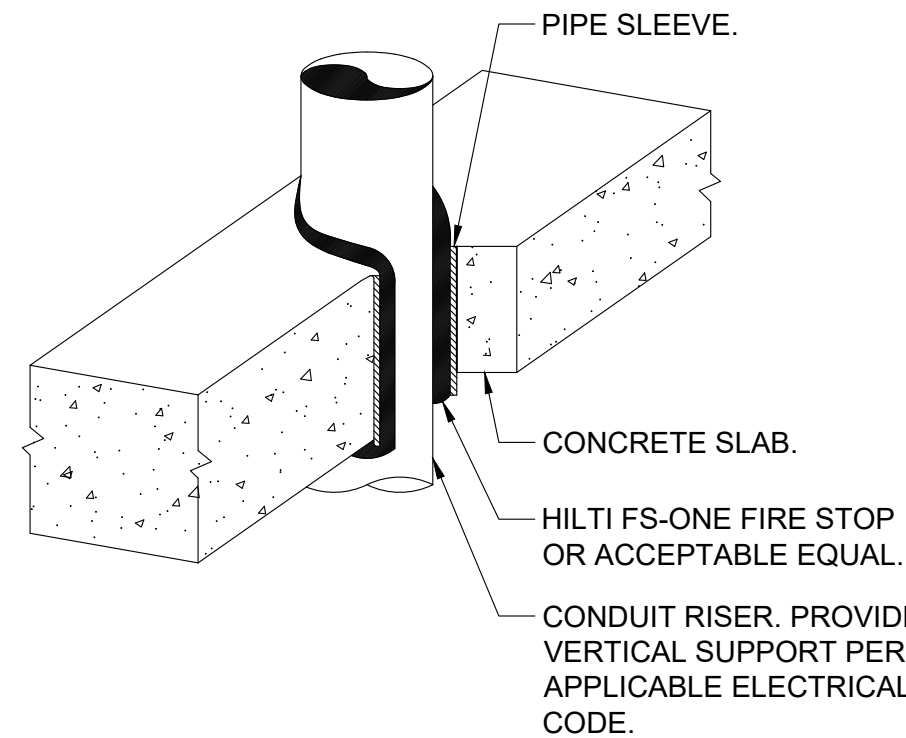
- NOTES:
1. IN ADDITION TO CONDUITS FOR CIRCUITS INSTALLED AS PER PLANS, INSTALL ADDITIONAL EMPTY CONDUITS AS INDICATED ABOVE FOR FUTURE CIRCUITS.
 2. CONDUITS BETWEEN PANELBOARD AND WIREWAY TO BE CONCEALED WITHIN PARTITION.

8 FLUSH MOUNTED PANELBOARD DETAIL
SCALE: NONE

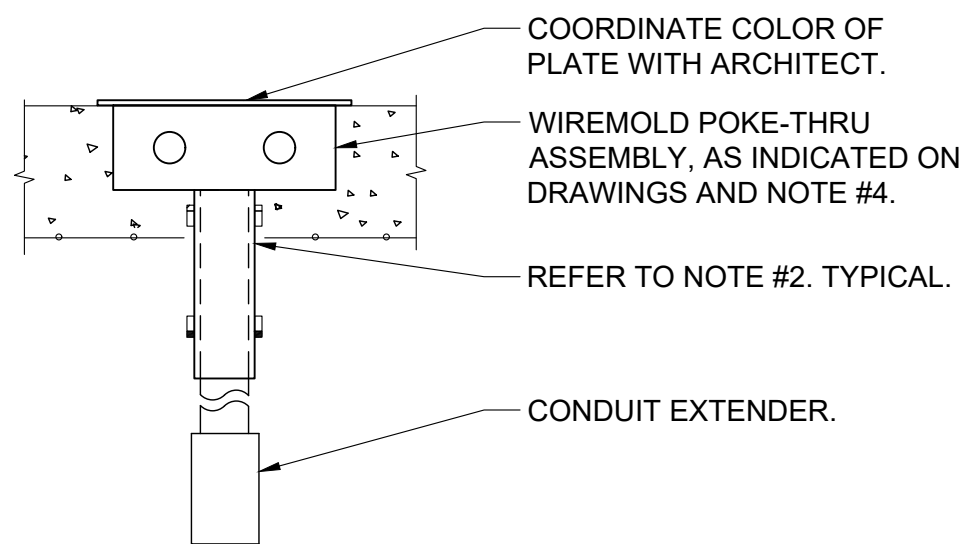


NOTE: EPO STATIONS SHALL BE WIRED IN PARALLEL SO THAT ACTIVATION OF EITHER EPO INITIATES SHUNT TRIP COIL TO OPEN MAIN CIRCUIT BREAKER.

5 EPO SHUNT TRIP DETAIL
SCALE: NONE

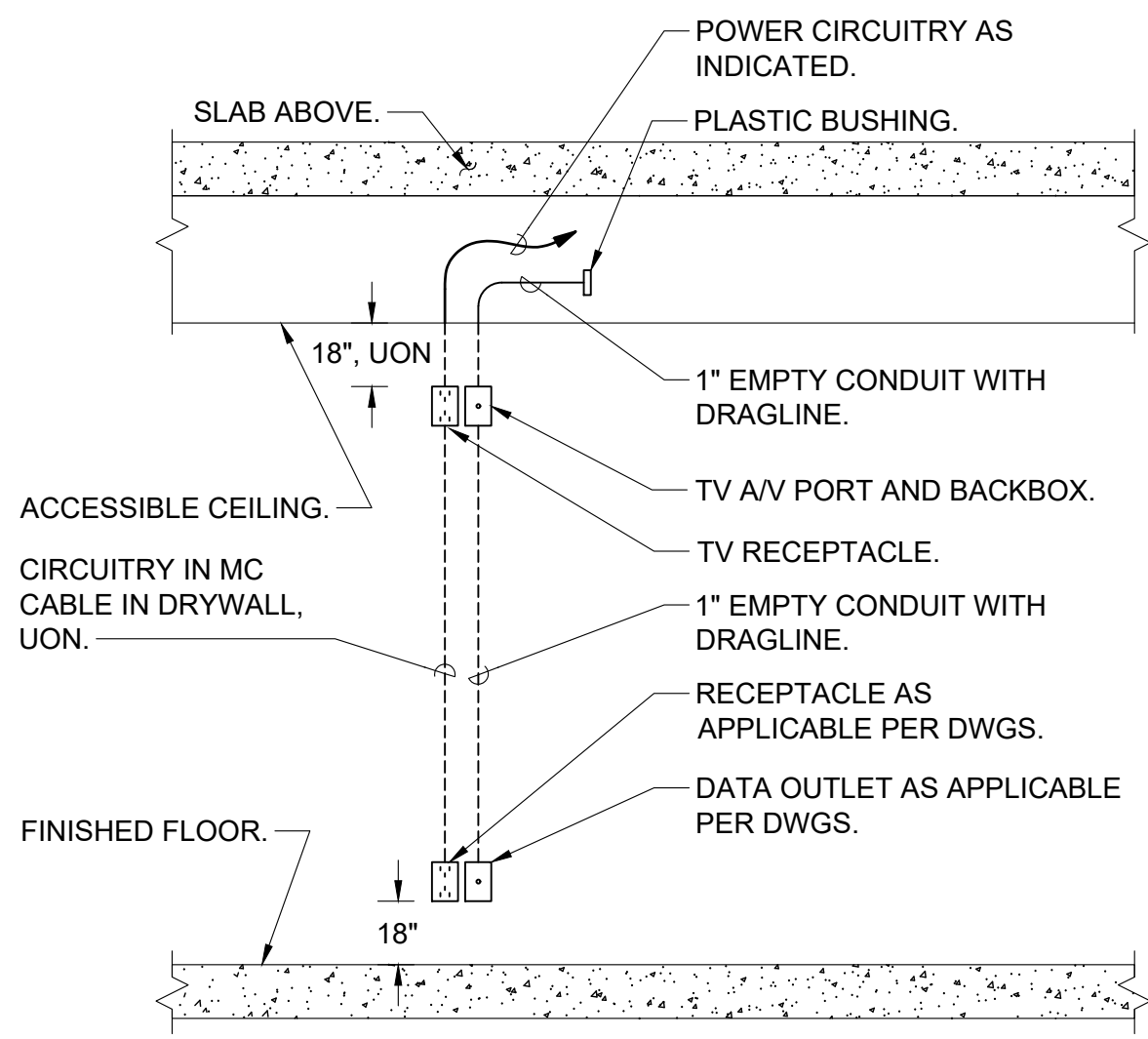


2 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE



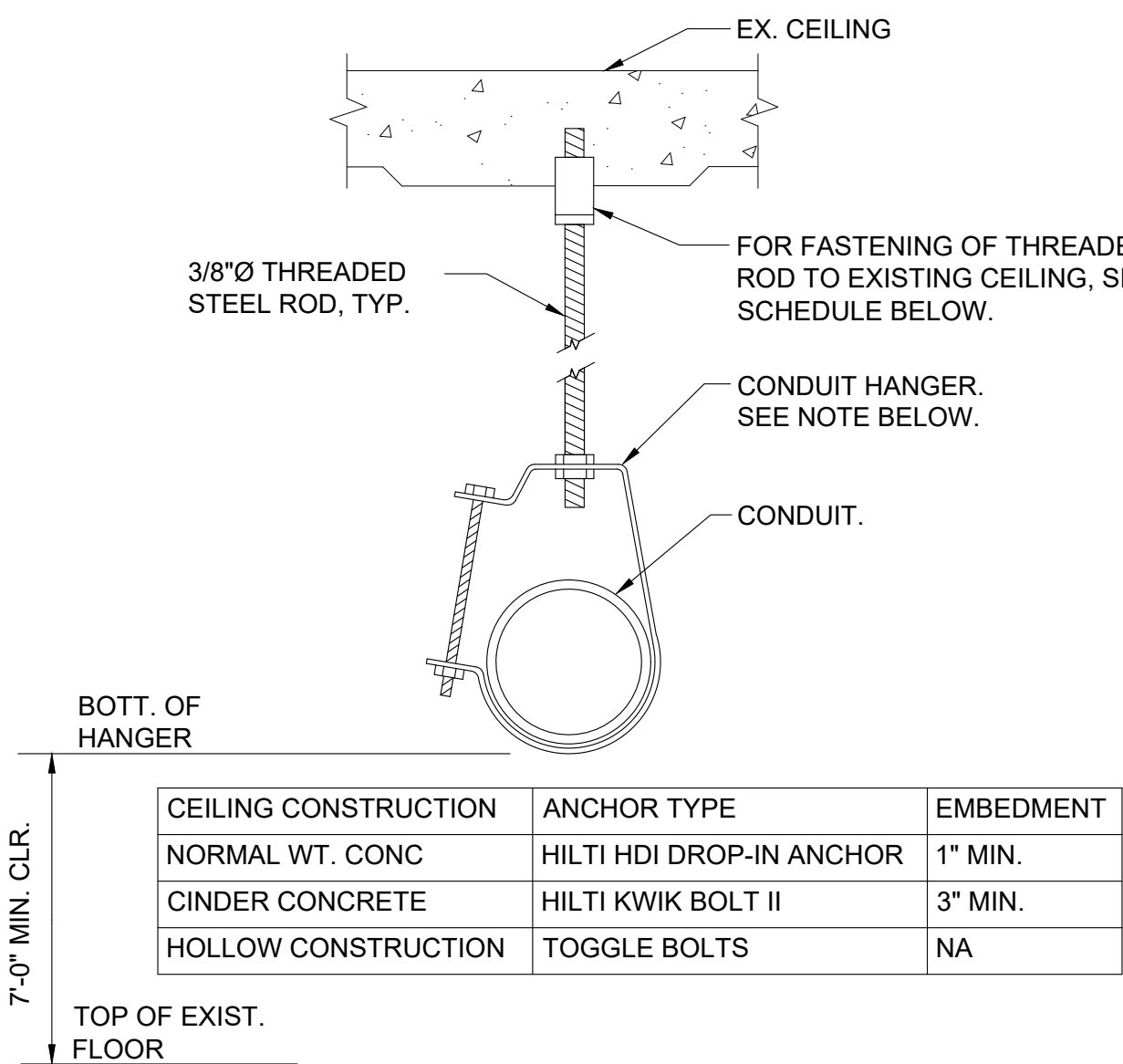
- NOTES:
1. FIRE STOP SLEEVE ON UPPER AND UNDERSIDE OF FLOOR SLAB WITH 3 HOUR RATED FIRE STOP AS MANUFACTURED BY SPECIFIED TECHNOLOGIES INC. (STI) SPEC SEAL SSS INTUMESCENT SEALANT OR APPROVED EQUAL.
 2. POKE-THRUS SHALL BE MIN. 2'-0\"/>

9 POKE-THRU DEVICE INSTALLATION DETAIL
SCALE: NONE



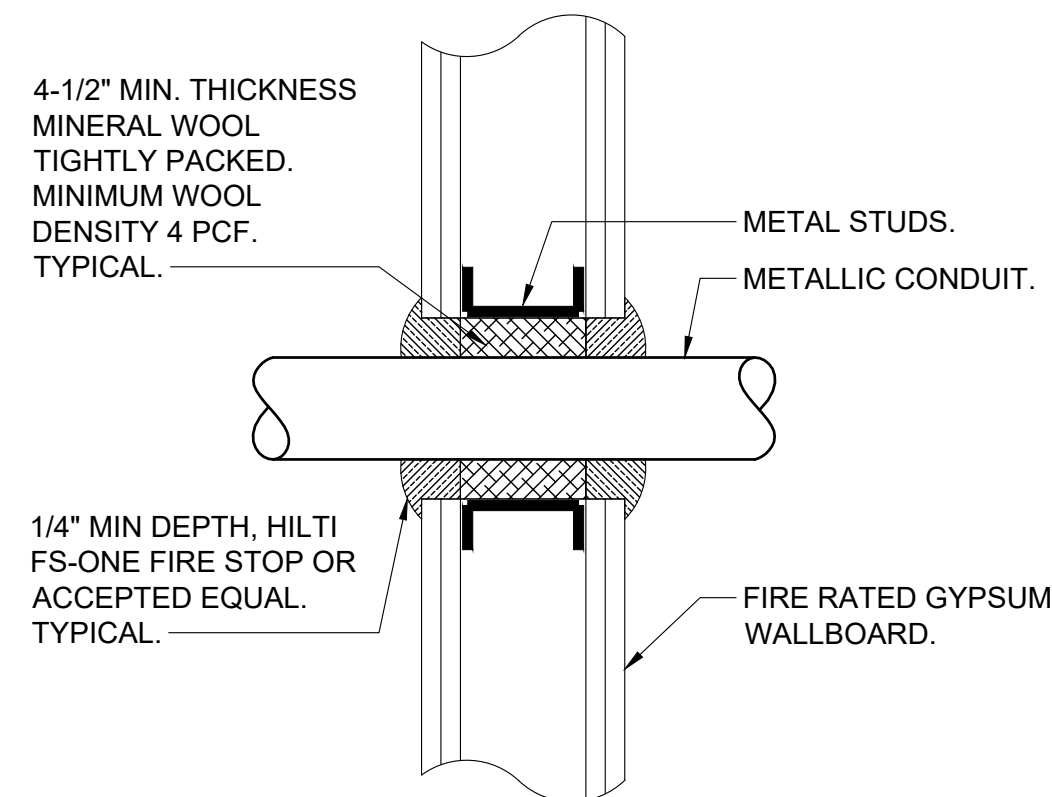
- NOTES:
1. COORDINATE EXACT HEIGHTS AND LOCATIONS OF RECEPTACLES AND BOXES WITH ARCHITECT.

7 TYPICAL ELEVATION DETAIL FOR MONITOR POWER/AV/DATA OUTLET LOCATION
SCALE: NONE



NOTE: CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1\"/>

4 SINGLE CONDUIT HANGER DETAIL
SCALE: NONE



1 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE

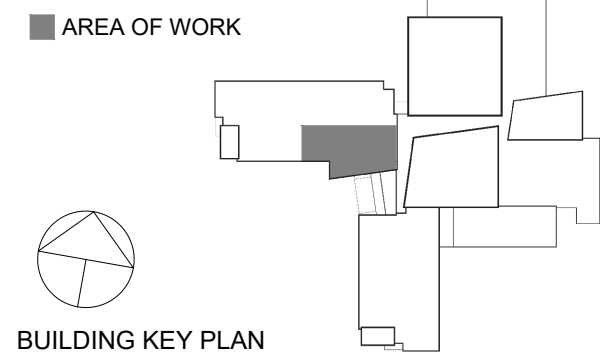
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