

BUILDING CODE ANALYSIS:

PENNSYLVANIA UNIFORM CONSTRUCTION CODE (UCC)
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL EXISTING BUILDING CODE
2018 INTERNATIONAL PLUMBING CODE
2018 INTERNATIONAL ENGINEERING AND CONSERVATION CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL FUEL GAS CODE
2018 INTERNATIONAL MECHANICAL CODE
2017 ICC 300 STANDARDS ON BLEACHERS
ICC A117.1 - 2009 ACCESSIBILITY CODE

2018 INTERNATIONAL BUILDING CODE

02. DEFINITIONS

202 DEFINITIONS
COMMERCIAL MOTOR VEHICLE: A MOTOR VEHICLE USED TO TRANSPORT PASSENGERS OR PROPERTY WHERE THE MOTOR VEHICLE MEETS ONE OF THE FOLLOWING:
1. HAS A GROSS VEHICLE WEIGHT RATING OF 10,000 POUNDS OR MORE.
2. IS DESIGNED TO TRANSPORT 16 OR MORE PASSENGERS, INCLUDING THE DRIVER.

03. USE AND OCCUPANCY CLASSIFICATION

303.6 ASSEMBLY GROUP A-5 (BLEACHERS)
GROUP A-5 OCCUPANCY INCLUDES ASSEMBLY USES INTENDED FOR PARTICIPATION IN OR VIEWING OUTDOOR ACTIVITIES INCLUDING, BUT NOT LIMITED TO: BLEACHERS, GRANDSTANDS, STADIUMS.

302.4 MODERATE-HAZARD FACTORY INDUSTRIAL GROUP F-1 (BUILDING)

FACTORY INDUSTRIAL GROUP F OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR ASSEMBLING, DISASSEMBLING, FABRICATING, FINISHING, MANUFACTURING, PACKAGING, REPAIR OR PROCESSING OPERATIONS THAT ARE NOT CLASSIFIED AS A GROUP H HAZARDOUS OR GROUP S STORAGE OCCUPANCY.

FACTORY INDUSTRIAL USES THAT ARE NOT CLASSIFIED AS FACTORY INDUSTRIAL F-2 LOW HAZARD SHALL BE CLASSIFIED AS F-1 MODERATE HAZARD AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: AUTOMOBILES AND OTHER MOTOR VEHICLES, ENGINES (INCLUDING REBUILDING), MACHINERY, METALS.

NOT 307.4 HIGH-HAZARD GROUP H-2 DUE TO THE FOLLOWING

BUILDINGS AND STRUCTURES CONTAINING MATERIALS THAT POSE A DEFLAGRATION HAZARD OR A HAZARD FROM ACCELERATED BURNING SHALL BE CLASSIFIED AS GROUP H-2. SUCH MATERIALS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: CLASS 1, 1.1 OR IIA FLAMMABLE OR COMBUSTIBLE LIQUIDS, FLAMMABLE GASES.

TABLE 307.1(1) MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS REFER TO LIFE SAFETY PLANS FOR CONTROL AREA LOCATIONS

Table with columns: CONTROL AREA #1 (WELDING, DIESEL), COMBUSTIBLE LIQUID, CLASS II, CRYOGENIC FLAMMABLE GAS, CRYOGENIC INERT GAS, FLAMMABLE GAS, OUTDOOR CONTROL AREA #1, FLAMMABLE GAS. Includes allowable and actual quantities.

TABLE 307.1(1) EXCEPTIONS: E. MAXIMUM ALLOWABLE QUANTITIES SHALL BE INCREASED 100 PERCENT WHEN STORED IN APPROVED STORAGE CABINETS, DAY BOXES, GAS CABINETS, GAS ROOMS OR EXHAUSTED ENCLOSURES OR IN LISTED SAFETY CANS IN ACCORDANCE WITH SECTION 503.9.10 OF THE INTERNATIONAL FIRE CODE.

305 ASSEMBLY GROUP E (BUILDING EXCEPT FOR AUTOMOTIVE AREA)

EDUCATIONAL GROUP E OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.

305.2 MODERATE-HAZARD FACTORY INDUSTRIAL GROUP F-1 (AUTOMOTIVE AREA)

FACTORY INDUSTRIAL GROUP F OCCUPANCY INCLUDES, AMONG OTHERS, THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, FOR ASSEMBLING, DISASSEMBLING, FABRICATING, FINISHING, MANUFACTURING, PACKAGING, REPAIR OR PROCESSING OPERATIONS THAT ARE NOT CLASSIFIED AS A GROUP H HAZARDOUS OR GROUP S STORAGE OCCUPANCY.

FACTORY INDUSTRIAL USES THAT ARE NOT CLASSIFIED AS FACTORY INDUSTRIAL F-2 LOW HAZARD SHALL BE CLASSIFIED AS F-1 MODERATE HAZARD AND SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: AUTOMOBILES AND OTHER MOTOR VEHICLES, ENGINES (INCLUDING REBUILDING), MACHINERY, METALS.

TABLE 307.1(1) MAXIMUM ALLOWABLE QUANTITY PER CONTROL AREA OF HAZARDOUS MATERIALS REFER TO LIFE SAFETY PLANS FOR CONTROL AREA LOCATIONS

Table with columns: CONTROL AREA #1 (AUTO AREA), FLAMMABLE GAS, CRYOGENIC FLAMMABLE GAS, FLAMMABLE LIQUID, CLASS IB. Includes allowable and actual quantities.

04. SPECIAL DETAILED REQUIREMENTS BASED ON OCCUPANCY AND USE

406 MOTOR-VEHICLE-RELATED OCCUPANCIES
406.1 GENERAL. ALL MOTOR-VEHICLE-RELATED OCCUPANCIES SHALL COMPLY WITH SECTION 406.2 REPAIR GARAGES SHALL ALSO COMPLY WITH SECTION 510.6.8.

406.2 DESIGN. REPAIR GARAGES SHALL COMPLY WITH SECTIONS 406.2.1 THROUGH 406.2.9.

406.2.1 AUTOMATIC GARAGE DOOR OPENERS AND VEHICULAR GATES. AUTOMATIC GARAGE DOOR OPENERS SHALL BE LISTED AND LABELED IN ACCORDANCE WITH UL 325. WHERE PROVIDED, AUTOMATIC VEHICULAR GATES SHALL COMPLY WITH SECTION 310.31.10.

406.2.2 CLEAR HEIGHT. THE CLEAR HEIGHT OF EACH FLOOR LEVEL IN VEHICLE AND PEDESTRIAN TRAFFIC AREAS SHALL NOT BE LESS THAN 7 FEET.

406.2.4 FLOOR SURFACES. FLOOR SURFACES SHALL E OF CONCRETE OR SIMILAR APPROVED NONCOMBUSTIBLE AND NONABSORBENT MATERIALS.

406.2.5 FUEL DISPENSING. THE DISPENSING OF FUEL SHALL NOT BE PERMITTED IN MOTOR FUEL-DISPENSING FACILITIES IN ACCORDANCE WITH SECTION 406.7.

406.2.9 EQUIPMENT AND APPLIANCES. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED IN ACCORDANCE WITH SECTIONS 406.2.9.1 THROUGH 406.2.9.3 AND THE INTERNATIONAL MECHANIC CODE, INTERNATIONAL FUEL GAS CODE AND NFPA 70.

406.2.9.1 ELEVATION OF IGNITION SOURCES. EQUIPMENT AND APPLIANCES HAVING AN IGNITION SOURCE AND LOCATED IN REPAIR GARAGES SHALL BE ELEVATED SUCH THAT THE SOURCE OF IGNITION IS NOT LESS THAN 18 INCHES ABOVE THE FLOOR SURFACE ON WHICH THE EQUIPMENT OR APPLIANCE RESTS.

406.7 MOTOR FUEL-DISPENSING FACILITIES. MOTOR FUEL-DISPENSING FACILITIES SHALL COMPLY WITH THE INTERNATIONAL FIRE CODE AND SECTIONS 406.2 AND 406.7.

406.7.1 VEHICLE FUELING PAD. THE VEHICLE SHALL BE FUELED ON NONCOATED CONCRETE OR OTHER APPROVED PAVING MATERIAL HAVING A RESISTANCE NOT EXCEEDING 1 MEGOHM AS DETERMINED BY THE METHOD DESCRIBED IN EN 1191.

406.8 REPAIR GARAGES. REPAIR GARAGES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE AND SECTIONS 406.2 AND 406.8. THIS OCCUPANCY SHALL NOT INCLUDE MOTOR FUEL-DISPENSING FACILITIES, AS REGULATED IN SECTION 406.7.

406.8.1 VENTILATION. REPAIR GARAGES SHALL BE MECHANICALLY VENTILATED IN ACCORDANCE WITH THE INTERNATIONAL MECHANICAL CODE. THE VENTILATION SYSTEM SHALL BE CONTROLLED AT THE ENTRANCE TO THE GARAGE.

406.8.3 AUTOMATIC SPRINKLER SYSTEM. A REPAIR GARAGE SHALL BE EQUIPPED WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH SECTION 903.2.9.1.

414 HAZARDOUS MATERIALS

414.1 GENERAL. THE PROVISIONS OF SECTIONS 414.1 THROUGH 414.6 SHALL APPLY TO BUILDINGS AND STRUCTURES OCCUPIED FOR THE USE AND STORAGE OF HAZARDOUS MATERIALS.

414.1.2 MATERIALS. THE SAFE DESIGN OF HAZARDOUS MATERIAL OCCUPANCIES IS MATERIAL DEPENDENT. INDIVIDUAL MATERIAL REQUIREMENTS ARE FOUND IN SECTIONS 307 AND 415, THE INTERNATIONAL MECHANICAL CODE AND THE INTERNATIONAL FIRE CODE.

414.1.3 INFORMATION REQUIRED. A REPORT SHALL BE SUBMITTED TO THE BUILDING OFFICIAL IDENTIFYING THE MAXIMUM EXPECTED QUANTITIES OF HAZARDOUS MATERIALS TO BE STORED, USED IN A CLOSED SYSTEM, USED IN AN OPEN SYSTEM, AND SUBMITTED TO ADDRESS HAZARDOUS MATERIAL CLASSIFICATION CATEGORIES BASED ON TABLES 307.1(1) AND 307.1(2). THE METHODS OF PROTECTION FROM SUCH HAZARDS, INCLUDING BUT NOT LIMITED TO CONTROL AREAS, FIRE PROTECTION SYSTEMS AND GROUP H OCCUPANCIES SHALL BE IDENTIFIED IN THE REPORT AND ON THE CONSTRUCTION DOCUMENTS. THE OPINION AND REPORT SHALL BE PREPARED BY A QUALIFIED PERSON, FIRM OR CORPORATION APPROVED BY THE BUILDING OFFICIAL, AND PROVIDED WITHOUT CHARGE TO THE ENFORCING AGENCY.

REPORT IS CONTAINED ABOVE, REFER TO TABLE 307.1(1) AND ON DRAWINGS A0.3 AND A0.4

414.2 CONTROL AREAS. CONTROL AREAS SHALL COMPLY WITH SECTIONS 414.2.1 THROUGH 414.2.5 AND THE INTERNATIONAL FIRE CODE.

414.2.1 CONSTRUCTION REQUIREMENTS. CONTROL AREAS SHALL BE SEPARATED FROM EACH OTHER BY FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH.

414.2 CONTROL AREAS. CONTROL AREAS SHALL COMPLY WITH SECTIONS 414.2.1 THROUGH 414.2.5 AND THE INTERNATIONAL FIRE CODE.

414.2.1 CONSTRUCTION REQUIREMENTS. CONTROL AREAS SHALL BE SEPARATED FROM EACH OTHER BY FIRE BARRIERS CONSTRUCTED IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH.

414.2.2 PERCENTAGE OF MAXIMUM ALLOWABLE QUANTITIES. THE PERCENTAGE OF MAXIMUM ALLOWABLE QUANTITIES OF HAZARDOUS MATERIALS PER CONTROL AREA PERMITTED AT EACH FLOOR LEVEL WITHIN A BUILDING SHALL BE IN ACCORDANCE WITH TABLE 414.2.2.

414.2.3 NUMBER. MAX. NUMBER OF CONTROL AREAS SHALL BE IN ACCORDANCE WITH TABLE 414.2.2.

TABLE 414.2.2 DESIGN AND NUMBER OF CONTROL AREAS

Table with columns: PHASE 1, PHASE 2, ALLOWABLE, ACTUAL. Includes % of max. control area, # of control areas, fire-resistance rating for fire barriers.

414.2.4 FIRE-RESISTANCE RATING REQUIREMENTS. THE REQUIRED FIRE-RESISTANCE RATING FOR FIRE BARRIERS SHALL BE IN ACCORDANCE WITH TABLE 414.2.2.

414.3 VENTILATION. ROOMS, AREAS OR SPACES IN WHICH EXPLOSIVE, CORROSIVE, COMBUSTIBLE, FLAMMABLE OR HIGHLY TOXIC DUSTS, MISTS OR GASES ARE OR HAVE THE POTENTIAL TO BE EMITTED DUE TO THE PROCESSING, USE, HANDLING OR STORAGE OF MATERIALS SHALL BE MECHANICALLY VENTILATED WHERE REQUIRED BY THIS CODE, THE INTERNATIONAL FIRE CODE OR THE INTERNATIONAL MECHANICAL CODE. EMISSIONS GENERATED AT WORKSTATIONS OR EQUIPMENT CONTAINED TO THE AREA IN WHICH THEY ARE GENERATED AS SPECIFIED IN THE INTERNATIONAL FIRE CODE AND THE INTERNATIONAL MECHANICAL CODE.

414.4 HAZARDOUS MATERIAL SYSTEMS. SYSTEMS INVOLVING HAZARDOUS MATERIALS SHALL BE SUITABLE FOR THE INTENDED APPLICATION. CONTROLS SHALL BE DESIGNED TO PREVENT MATERIALS FROM ENTERING OR LEAVING PROCESS OR REACTION SYSTEMS AT OTHER THAN THE INTENDED TIME, RATE OR PATH. AUTOMATIC CONTROLS, WHERE PROVIDED, SHALL BE DESIGNED TO BE FAIL SAFE.

414.5 INSIDE STORAGE, DISPENSING AND USE. THE INSIDE STORAGE, DISPENSING AND USE OF HAZARDOUS MATERIALS SHALL BE IN ACCORDANCE WITH SECTIONS 414.5.1 THROUGH 414.5.3 OF THIS CODE AND THE INTERNATIONAL FIRE CODE.

414.5.2 EMERGENCY OR STANDBY POWER. WHERE REQUIRED BY THE INTERNATIONAL FIRE CODE OR THIS CODE, MECHANICAL VENTILATION, TREATMENT SYSTEMS, TEMPERATURE CONTROL, ALARM, DETECTION OR OTHER ELECTRICALLY OPERATED SYSTEMS SHALL BE PROVIDED WITH EMERGENCY OR STANDBY POWER IN ACCORDANCE WITH SECTION 2702.

414.5.2.1 EXEMPT LOCATIONS. EMERGENCY OR STANDBY POWER IS NOT REQUIRED FOR THE MECHANICAL VENTILATION SYSTEMS PROVIDED FOR ANY OF THE FOLLOWING:
1. STORAGE OF CLASS IB AND IC FLAMMABLE AND COMBUSTIBLE LIQUIDS IN CLOSED CONTAINERS NOT EXCEEDING 6 GALLONS CAPACITY.

414.5.2.2 FAIL-SAFE ENGINEERED SYSTEMS. STANDBY POWER FOR MECHANICAL VENTILATION, TREATMENT SYSTEMS AND TEMPERATURE CONTROL SYSTEMS SHALL NOT BE REQUIRED WHERE AN APPROVED FAIL-SAFE ENGINEERED SYSTEM IS INSTALLED.

414.5.3 SPILL CONTROL, DRAINAGE AND CONTAINMENT. ROOMS, BUILDINGS OR AREAS OCCUPIED FOR THE STORAGE OF LIQUID HAZARDOUS MATERIALS SHALL BE PROVIDED WITH A MEANS TO CONTROL SPILLAGE AND TO CONTAIN OR DRAIN OFF SPILLAGE AND FIRE PROTECTION WATER DISCHARGED IN THE STORAGE AREA WHERE REQUIRED BY THE INTERNATIONAL FIRE CODE. THE METHODS OF SPILL CONTROL SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE.

414.6 OUTDOOR STORAGE, DISPENSING AND USE. OUTDOOR STORAGE, DISPENSING AND USE OF HAZARDOUS MATERIALS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE.

414.6.1 WEATHER PROTECTION. WHERE WEATHER PROTECTION IS PROVIDED FOR SHELTERING OUTDOOR HAZARDOUS MATERIAL STORAGE OR USE, THE WEATHER PROTECTION SHALL COMPLY WITH SECTIONS 414.6.1.1 THROUGH 414.6.1.3.

414.6.1.1 WALLS. WALLS SHALL NOT OBSTRUCT MORE THAN ONE SIDE OF THE STRUCTURE. EXCEPTION: WALLS SHALL BE PERMITTED TO OBSTRUCT PORTIONS OF MULTIPLE SIDES OF THE STRUCTURE, PROVIDED THAT THE OBSTRUCTED AREA IS NOT GREATER THAN 25% OF THE STRUCTURE'S PERIMETER.

414.6.1.2 SEPARATION DISTANCE. THE DISTANCE FROM THE STRUCTURE TO BUILDINGS, LOT LINES, PUBLIC WAYS OR MEANS OF EGRESS TO A PUBLIC WAY SHALL NOT BE LESS THAN THE DISTANCE REQUIRED FOR AN OUTSIDE HAZARDOUS MATERIAL STORAGE OR USE AREA WITHOUT WEATHER PROTECTION.

05. GENERAL BUILDING HEIGHTS AND AREAS
TABLE 504.3, 504.4 & 506.2
ALLOWABLE ACTUAL NEW ACTUAL EXIST. ACTUAL TOTAL

Table with columns: PHASE 1 GROUP, TYPE OF CONSTRUCTION, HEIGHT, STORIES, AREA. Includes A-5, F-1, E, F-1 types.

Table with columns: PHASE 2 GROUP, TYPE OF CONSTRUCTION, HEIGHT, STORIES, AREA. Includes E, F-1 types.

Table with columns: MEZZANINE OCCUPANTS, ALLOWABLE MEZZ OCCUPANCY, ACTUAL MEZZ OCCUPANCY. Includes 1,583 SF / 300 GSF = 5 OCCUPANTS.

505 MEZZANINES
505.1 GENERAL. MEZZANINES SHALL COMPLY WITH SECTION 505.2
505.2 MEZZANINES. A MEZZANINE OR MEZZANINES IN COMPLIANCE WITH SECTION 505.2 SHALL BE CONSIDERED A PORTION OF THE STORY BELOW SUCH MEZZANINES SHALL NOT CONTRIBUTE TO EITHER THE BUILDING AREA OR NUMBER OF STORIES AS REGULATED BY SECTION 503.1. THE AREA OF THE MEZZANINE SHALL BE INCLUDED IN DETERMINING THE FIRE AREA. THE CLEAR HEIGHT ABOVE AND BELOW THE MEZZANINE FLOOR CONSTRUCTION SHALL BE NOT LESS THAN 7 FEET.

505.2.1 AREA LIMITATION. THE AGGREGATE AREA OF A MEZZANINE OR MEZZANINES WITHIN A ROOM SHALL BE NOT GREATER THAN ONE-THIRD OF THE FLOOR AREA OF THAT ROOM OR SPACE IN WHICH THEY ARE LOCATED. THE ENCLOSED PORTION OF A ROOM SHALL NOT BE INCLUDED IN A DETERMINATION OF THE FLOOR AREA OF THE ROOM IN WHICH THE MEZZANINE IS LOCATED. IN DETERMINING THE ALLOWABLE MEZZANINE AREA, THE AREA OF THE MEZZANINE SHALL NOT BE INCLUDED IN THE FLOOR AREA OF THE ROOM.

505.2.2 MEANS OF EGRESS. THE MEANS OF EGRESS FOR MEZZANINES SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF CHAPTER 10.

502.3 OPENNESS. A MEZZANINE SHALL BE OPEN AND UNOBSTRUCTED TO THE ROOM IN WHICH SUCH MEZZANINE IS LOCATED EXCEPT FOR WALLS NOT MORE THAN 42 INCHES IN HEIGHT, COLUMNS AND POSTS.

EXCEPTIONS:
1. MEZZANINES OR PORTIONS THEREOF ARE NOT REQUIRED TO BE OPEN TO THE ROOM IN WHICH THE MEZZANINES ARE LOCATED, PROVIDED THAT THE OCCUPANT LOAD OF THE AGGREGATE AREA OF THE ENCLOSED SPACE IS NOT GREATER THAN 10.

MEZZANINE OCCUPANTS: 1,583 SF / 300 GSF = 5 OCCUPANTS
ALLOWABLE MEZZ OCCUPANCY: 10 OCCUPANTS
ACTUAL MEZZ OCCUPANCY: 5 OCCUPANTS
MEZZANINE IS NOT REQUIRED TO BE OPEN TO ROOM

508 MIXED USE AND OCCUPANCY
508.1 GENERAL. EACH PORTION OF A BUILDING SHALL BE INDIVIDUALLY CLASSIFIED IN ACCORDANCE WITH SECTION 502.1, WHERE A BUILDING CONTAINS MORE THAN ONE OCCUPANCY CLASSIFICATION. BUILDING OR PORTION THEREOF SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF SECTION 508.2, 508.3 OR 508.4, OR A COMBINATION OF THESE SECTIONS.

508.2 SEPARATED OCCUPANCIES. BUILDINGS OR PORTIONS OF BUILDINGS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED AS SEPARATED OCCUPANCIES.

508.4.1 OCCUPANCY CLASSIFICATION. SEPARATED OCCUPANCIES SHALL BE CLASSIFIED IN ACCORDANCE WITH SECTION 502.1. EACH SEPARATED SPACE SHALL COMPLY WITH THIS CODE BASED ON THE OCCUPANCY CLASSIFICATION OF THAT PORTION OF THE BUILDING. THE MOST RESTRICTIVE PROVISIONS OF CHAPTER 9 THAT APPLY TO THE SEPARATED OCCUPANCIES SHALL APPLY TO THE TOTAL NON-FIRE-BARRIER-SEPARATED OCCUPANCY AREA. OCCUPANCY SEPARATIONS THAT SERVE TO DEFINE FIRE AREA LIMITS ESTABLISHED IN CHAPTER 9 FOR REQUIRING A FIRE PROTECTION SYSTEM SHALL ALSO COMPLY WITH SECTION 601.7.

508.4.2 ALLOWABLE BUILDING AREA. IN EACH STORY, THE BUILDING AREA SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL BUILDING AREA OF EACH SEPARATED OCCUPANCY DIVIDED BY THE ALLOWABLE BUILDING AREA OF EACH SEPARATED OCCUPANCY SHALL NOT EXCEED 1.

508.4.3 ALLOWABLE BUILDING HEIGHT AND NUMBER OF STORIES. EACH SEPARATED OCCUPANCY SHALL COMPLY WITH THE BUILDING HEIGHT AND STORY LIMITATIONS BASED ON THE TYPE OF CONSTRUCTION OF THE BUILDING IN ACCORDANCE WITH SECTION 503.1.

508.4.4 SEPARATION. INDIVIDUAL OCCUPANCIES SHALL BE SEPARATED FROM ADJACENT OCCUPANCIES IN ACCORDANCE WITH TABLE 508.4.

508.4.4.1 CONSTRUCTION. REQUIRED SEPARATIONS SHALL BE FIRE BARRIERS IN ACCORDANCE WITH SECTION 707 OR HORIZONTAL ASSEMBLIES CONSTRUCTED IN ACCORDANCE WITH SECTION 711, OR BOTH, SO AS TO COMPLETELY SEPARATE ADJACENT OCCUPANCIES.

TABLE 508.4 REQUIRED SEPARATION OF NON-SPRINKLERED OCCUPANCIES (HOURS)

Table with columns: A TO F1, E TO F1, REQUIRED RATING, ACTUAL RATING. Includes 2 HOURS for various construction types.

06. TYPES OF CONSTRUCTION
602 CONSTRUCTION CLASSIFICATION
602.2 TYPES I AND II, TYPES I AND II CONSTRUCTION ARE THOSE TYPES OF CONSTRUCTION IN WHICH THE BUILDING ELEMENTS LISTED IN TABLE 601 ARE OF NONCOMBUSTIBLE MATERIALS, EXCEPT AS PERMITTED IN SECTION 603 AND ELSEWHERE IN THIS CODE.

TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (HOURS)
BUILDING ELEMENT TYPE IIB
PRIMARY STRUCTURAL FRAME 0
BEARING WALLS 0
EXTERIOR 0
NONBEARING WALLS & PARTITIONS 0
EXTERIOR REFER TO TABLE 602
INTERIOR 0
FLOOR CONSTRUCTION AND SECONDARY MEMBERS 0
ROOF CONSTRUCTION AND SECONDARY MEMBERS 0

TABLE 602 FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE
FIRE SEPARATION DISTANCE: GREATER THAN 30 FEET BETWEEN PHASES 1 AND 2 AND 3
TYPE OF CONSTRUCTION: IIB
OCCUPANCY GROUP: A, F-1
REQUIRED RATING: 0 HOURS
ACTUAL RATING: 0 HOURS

07. FIRE AND SMOKE PROTECTION FEATURES
705 EXTERIOR WALLS
705.5 FIRE-RESISTANCE RATINGS. EXTERIOR WALLS SHALL BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLES 601 AND 602 AND THIS SECTION. THE REQUIRED FIRE-RESISTANCE RATING OF EXTERIOR WALLS WITH A FIRE SEPARATION DISTANCE OF GREATER THAN 10 FEET SHALL BE RATED FOR EXPOSURE TO FIRE FROM THE INSIDE.

705.6 STRUCTURAL STABILITY. EXTERIOR WALLS SHALL EXTEND TO THE HEIGHT REQUIRED BY SECTION 705.11. INTERIOR STRUCTURAL ELEMENTS THAT BRACE THE EXTERIOR WALL BUT THAT ARE NOT LOCATED WITHIN THE PLANE OF THE EXTERIOR WALL SHALL HAVE THE MINIMUM FIRE-RESISTANCE RATING REQUIRED IN TABLE 601 FOR THAT STRUCTURAL ELEMENT.

705.8 OPENINGS. OPENINGS IN EXTERIOR WALLS SHALL COMPLY WITH SECTIONS 705.8.1 THROUGH 705.8.6.

705.8.1 ALLOWABLE AREA OF OPENINGS. THE MAXIMUM AREA OF UNPROTECTED AND PROTECTED OPENINGS PERMITTED IN AN EXTERIOR WALL IN ANY STORY OF A BUILDING SHALL NOT EXCEED THE PERCENTAGES SPECIFIED IN TABLE 705.8 BASED ON THE FIRE SEPARATION DISTANCE OF EACH INDIVIDUAL STORY.

EXCEPTIONS:
1. THE WALL IS NOT REQUIRED TO BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 602 BECAUSE OF FIRE SEPARATION DISTANCE.
2. BUILDINGS WHOSE EXTERIOR BEARING WALLS, EXTERIOR NONBEARING WALLS AND EXTERIOR PRIMARY STRUCTURAL FRAME ARE NOT REQUIRED TO BE FIRE-RESISTANCE RATED SHALL BE PERMITTED TO HAVE UNLIMITED UNPROTECTED OPENINGS.

TABLE 705.8 MAXIMUM AREA OF EXTERIOR WALL OPENINGS BASED ON FIRE SEPARATION DISTANCE AND DEGREE OF OPENING PROTECTION:
FIRE SEPARATION DISTANCE: GREATER THAN 30 FEET BETWEEN PHASES 1 AND 2 AND 3
DEGREE OF OPENING PROTECTION: UNPROTECTED, NON-SPRINKLERED (UP, NS)

705.11 PARAPETS. PARAPETS SHALL BE PROVIDED ON EXTERIOR WALLS OF BUILDINGS
EXCEPTIONS:
1. THE WALL IS NOT REQUIRED TO BE FIRE-RESISTANCE RATED IN ACCORDANCE WITH TABLE 602 BECAUSE OF FIRE SEPARATION DISTANCE.

707 FIRE BARRIERS
707.1 GENERAL. FIRE BARRIERS INSTALLED AS REQUIRED ELSEWHERE IN THIS CODE OR THE INTERNATIONAL FIRE CODE SHALL COMPLY WITH THIS SECTION.

707.2 MATERIALS. FIRE BARRIERS SHALL BE OF MATERIALS PERMITTED BY THE BUILDING TYPE OF CONSTRUCTION.

707.3 THE FIRE-RESISTANCE RATING OF FIRE BARRIERS SHALL COMPLY WITH THIS SECTION.

707.3.9 SEPARATED OCCUPANCIES. WHERE THE PROVISIONS OF SECTION 508.4 ARE APPLICABLE, THE FIRE BARRIER SEPARATING MIXED OCCUPANCIES SHALL HAVE AN FIRE-RESISTANCE RATING OF NOT LESS THAN THAT INDICATED IN TABLE 508.4 BASED ON THE OCCUPANCIES BEING SEPARATED.

707.5 CONTINUITY. FIRE BARRIERS SHALL EXTEND FROM THE TOP OF THE FOUNDATION TO THE UNDERSIDE OF THE SLAB OR DECK ABOVE AND SHALL BE SECURELY ATTACHED THERETO. SUCH FIRE BARRIERS SHALL BE CONTINUOUS THROUGH CONCEALED SPACE, SUCH AS THE SPACE ABOVE A SUSPENDED CEILING.

707.6 OPENINGS. OPENINGS IN A FIRE BARRIER SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 716. OPENINGS SHALL BE LIMITED TO A MAXIMUM AGGREGATE WIDTH OF 25 PERCENT OF THE LENGTH OF THE WALL, AND THE MAXIMUM AREA OF ANY SINGLE OPENING SHALL NOT EXCEED 156 SQUARE FEET.

707.7 PENETRATIONS. PENETRATIONS OF FIRE BARRIERS SHALL COMPLY WITH SECTION 714.

707.8 JOINTS. JOINTS MADE IN OR BETWEEN FIRE BARRIERS, AND JOINTS MADE AT THE INTERSECTION OF FIRE BARRIERS WITH UNDERSIDE OF A FIRE-RESISTANCE-RATED FLOOR OR ROOF SHEATHING, SLAB OR DECK ABOVE, AND THE EXTERIOR VERTICAL WALL INTERSECTION SHALL COMPLY WITH SECTION 715.

707.9 VOIDS AT INTERSECTIONS. THE VOIDS CREATED AT THE INTERSECTION OF A FIRE BARRIER AND A NONFIRE-RESISTANCE-RATED ROOF ASSEMBLY OR A NONFIRE-RESISTANCE-RATED EXTERIOR WALL ASSEMBLY SHALL BE FILLED. AN APPROVED MATERIAL OR SYSTEM SHALL BE USED TO FILL THE VOID, AND SHALL BE SECURELY INSTALLED IN OR ON THE INTERSECTION FOR ITS ENTIRE LENGTH SO AS NOT TO DISLODGE, LOOSEN OR OTHERWISE IMPAIR ITS ABILITY TO ACCOMMODATE EXPECTED BUILDING MOVEMENTS AND TO RETARD THE PASSAGE OF FIRE AND HOT GASES.

707.10 DUCTS AND AIR TRANSFER OPENINGS. PENETRATIONS IN A FIRE BARRIER BY DUCTS AND AIR TRANSFER OPENINGS SHALL COMPLY WITH SECTION 717.

708 FIRE PARTITIONS
708.1 GENERAL. THE FOLLOWING WALL ASSEMBLIES SHALL COMPLY WITH THIS SECTION.
3. CORRIDOR WALLS AS REQUIRED BY SECTION 1020.1.

708.3 FIRE-RESISTANCE RATING. FIRE PARTITIONS SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN 1 HOUR.

708.4 CONTINUITY. FIRE PARTITIONS SHALL EXTEND FROM THE TOP OF THE FLOOR ASSEMBLY BELOW AND BE SECURELY ATTACHED TO THE UNDERSIDE OF THE FLOOR OR SLAB ABOVE.

708.6 OPENINGS. OPENINGS IN A FIRE PARTITION SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 716.

708.7 PENETRATIONS. PENETRATIONS OF FIRE PARTITIONS SHALL COMPLY WITH SECTION 714.

708.8 JOINTS. JOINTS MADE IN OR BETWEEN FIRE PARTITIONS SHALL COMPLY WITH SECTION 715.

708.9 DUCTS AND AIR TRANSFER OPENINGS. PENETRATIONS IN A FIRE PARTITION BY DUCTS AND AIR TRANSFER OPENINGS SHALL COMPLY WITH SECTION 717.

711 FLOOR AND ROOF ASSEMBLIES
711.1 GENERAL. HORIZONTAL ASSEMBLIES SHALL COMPLY WITH SECTION 711.2. NONFIRE-RESISTANCE-RATED FLOOR AND ROOF ASSEMBLIES SHALL COMPLY WITH SECTION 711.3.

711.2 HORIZONTAL ASSEMBLIES. HORIZONTAL ASSEMBLIES SHALL COMPLY WITH SECTIONS 711.2.1 THROUGH 711.2.6.

711.2.1 MATERIALS. ASSEMBLIES SHALL BE OF MATERIALS PERMITTED BY THE BUILDING TYPE OF CONSTRUCTION.

711.2.2 CONTINUITY. ASSEMBLIES SHALL BE CONTINUOUS WITHOUT VERTICAL OPENINGS, EXCEPT AS PERMITTED BY THIS SECTION AND SECTION 712.

711.2.3 SUPPORTING CONSTRUCTION. THE SUPPORTING CONSTRUCTION SHALL BE PROTECTED TO AFFORD THE REQUIRED FIRE-RESISTANCE RATING OF THE HORIZONTAL ASSEMBLY SUPPORTED.

711.2.4 FIRE-RESISTANCE RATING. THE FIRE-RESISTANCE RATING OF HORIZONTAL ASSEMBLIES SHALL COMPLY WITH SECTIONS 711.2.4.1 THROUGH 711.2.4.6 BUT SHALL BE NOT LESS THAN THAT REQUIRED BY THE BUILDING TYPE OF CONSTRUCTION.

711.2.4.1 SEPARATING MIXED OCCUPANCIES. WHERE THE HORIZONTAL ASSEMBLY SEPARATES MIXED OCCUPANCIES, THE ASSEMBLY SHALL HAVE A FIRE-RESISTANCE RATING OF NOT LESS THAN THAT REQUIRED BY SECTION 508.4 BASED ON THE OCCUPANCIES BEING SEPARATED.

712 VERTICAL OPENINGS
712.1 GENERAL. EACH VERTICAL OPENING SHALL COMPLY IN ACCORDANCE WITH ONE OF THE PROTECTION METHODS IN SECTIONS 712.1.1 THROUGH 712.1.16.

712.1.1 PENETRATIONS. PENETRATIONS, CONCEALED AND UNCONCEALED, SHALL BE PERMITTED WHERE PROTECTED IN ACCORDANCE WITH SECTION 714.

714.1.1 DUCTS AND AIR TRANSFER OPENINGS. PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS BY DUCTS THAT ARE NOT PROTECTED BY DAMPERS SHALL COMPLY WITH SECTIONS 714.3 THROUGH 714.4.3.

714.3 INSTALLATION. A LISTED PENETRATION FIRESTOP SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE LISTING CRITERIA.

714.3.1 INSTALLATION DETAILS. WHERE SLEEVES ARE USED, THEY SHALL BE SECURELY FASTENED TO THE ASSEMBLY PENETRATED. THE SPACE BETWEEN THE ITEM CONTAINED IN THE SLEEVE AND THE SLEEVE ITSELF AND ANY SPACE BETWEEN THE SLEEVE AND THE ASSEMBLY PENETRATED SHALL BE PROTECTED IN ACCORDANCE WITH THIS SECTION. INSULATION AND COVERINGS ON OR UNDER THE PENETRATING ITEM SHALL NOT PENETRATE THE ASSEMBLY UNLESS THE SPECIFIC MATERIAL USED HAS BEEN TESTED AS PART OF THE ASSEMBLY IN ACCORDANCE WITH THIS SECTION.

714.4 FIRE-RESISTANCE-RATED WALLS. PENETRATIONS INTO OR THROUGH FIRE BARRIERS SHALL COMPLY WITH SECTIONS 714.4.1 THROUGH 714.4.3.

714.4.1 THROUGH PENETRATIONS. THROUGH PENETRATIONS OF FIRE-RESISTANCE-RATED WALLS SHALL COMPLY WITH SECTION 714.4.1.2.

EXCEPTION: WHERE THE PENETRATING ITEMS ARE STEEL, FERROUS OR COPPER PIPES, TUBES OR CONDUITS, THE ANNULAR SPACE BETWEEN THE PENETRATING ITEM AND THE FIRE-RESISTANCE-RATED WALL IS PERMITTED TO BE PROTECTED BY EITHER OF THE FOLLOWING MEASURES:

1. IN CONCRETE OR MASONRY WALLS WHERE THE PENETRATING ITEM IS A MAXIMUM 6 INCH NOMINAL DIAMETER AND THE AREA OF THE OPENING THROUGH THE WALL DOES NOT EXCEED 144 SQUARE INCHES, CONCRETE GROUT OR MORTAR IS PERMITTED WHERE INSTALLED THE FULL THICKNESS OF THE WALL OR THE THICKNESS REQUIRED TO MAINTAIN THE FIRE-RESISTANCE RATING.

714.4.1.2 THROUGH-PENETRATION FIRESTOP SYSTEM. THROUGH PENETRATIONS SHALL BE PROTECTED BY AN APPROVED PENETRATION FIRESTOP SYSTEM INSTALLED AS TESTED IN ACCORDANCE WITH ASTM E814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER AND SHALL HAVE AN F-RATING OF NOT LESS THAN THE REQUIRED FIRE-RESISTANCE RATING OF THE WALL PENETRATED.

714.4.2 MEMBRANE PENETRATIONS. MEMBRANE PENETRATIONS SHALL COMPLY WITH SECTION 714.4.1, WHERE WALLS OR PARTITIONS ARE REQUIRED TO HAVE A FIRE-RESISTANCE RATING, RECESSED FIXTURES SHALL BE INSTALLED SUCH THAT THE REQUIRED FIRE RESISTANCE WILL NOT BE REDUCED.

EXCEPTIONS:
1. MEMBRANE PENETRATIONS OF MAXIMUM 2-HOUR FIRE-RESISTANCE-RATED WALLS AND PARTITIONS BY STEEL ELECTRICAL BOXES THAT DO NOT EXCEED 16 SQUARE INCHES IN AREA PROVIDED THAT THE AGGREGATE AREA OF THE OPENINGS THROUGH THE MEMBRANE DOES NOT EXCEED 100 SQUARE INCHES IN ANY 100 SQUARE FEET OF WALL AREA. THE ANNULAR SPACE BETWEEN THE WALL MEMBRANE AND THE BOX SHALL NOT EXCEED 1/8 INCH UNLESS LISTED OTHERWISE. SUCH BOXES ON OPPOSITE SIDES OF THE WALL OR PARTITION SHALL BE SEPARATED BY ONE OF THE FOLLOWING:

1.1 BY A HORIZONTAL DISTANCE OF NOT LESS THAN 24 INCHES WHERE THE WALL OR PARTITION IS CONSTRUCTED WITH INDIVIDUAL NON-COMMUNICATING STUD CAVITIES.
1.3 BY SOLID FIRE-BLOCKING IN ACCORDANCE WITH SECTION 718.2.1.
1.4 BY PROTECTING BOTH OUTLET BOXES WITH LISTED PUTTY PADS.

2. MEMBRANE PENETRATIONS BY LISTED ELECTRICAL BOXES OF ANY MATERIAL, PROVIDED THAT SUCH BOXES HAVE BEEN

CONVENTIONS

- DO NOT SCALE DRAWINGS. DIMENSIONS ALWAYS GOVERN.
- LARGE SCALE DETAILS GOVERN OVER SMALL SCALE DETAILS.
- DETAILS ARE KEYED ONCE (ON THE PLANS OR ELEVATIONS WHEN THEY FIRST OCCUR) AND ARE TYPICAL FOR SIMILAR CONDITIONS THROUGHOUT, U.N.O.
- ALL VERTICAL DIMENSIONS ARE SHOWN TO OR FROM FINISHED FLOOR LEVEL, U.N.O.
- ALL DIMENSIONS MARKED "CLEAR" SHALL BE MAINTAINED.
- "TYPICAL" OR "TYP" MEANS FOR ALL SIMILAR CONSTRUCTION, U.N.O.
- "ALIGN" MEANS THAT SIMILAR COMPONENTS OF CONSTRUCTION, AS INDICATED BY THE DRAWINGS, MUST BE STRAIGHT AND IN LINE, AND ANY JOINTS / SEAMS MUST BE CONCEALED AND INVISIBLE TO THE EYE OR TOUCH.
- "PROVIDE" MEANS PROVIDE AND INSTALL, U.N.O.

INTERIOR PARTITION TYPES & NOTES

STUD PARTITIONS

- P3 3 5/8" MTL. STUDS W/ 5/8" GWB ON ONE SIDE, FILL W/ ACOUS. BATT INSUL.
- P4 3 5/8" MTL. STUDS W/ 5/8" GWB E.S., FILL W/ ACOUS. BATT INSUL.

CMU WALLS

- M4 4" C.M.U.
- M6 6" C.M.U.
- M6.1 6" C.M.U. - (1) HR. FIRE-RATED (U.L. #U905)
- M8 8" C.M.U.
- M8.1 8" C.M.U. - (1) HR. FIRE-RATED (U.L. #U905)
- M8.2 8" C.M.U. - (2) HR. FIRE-RATED (U.L. #U905)
- M8.3 8" C.M.U. - (3) HR. FIRE-RATED (U.L. #U904)
- M12 12" C.M.U.

WALL INFILLS

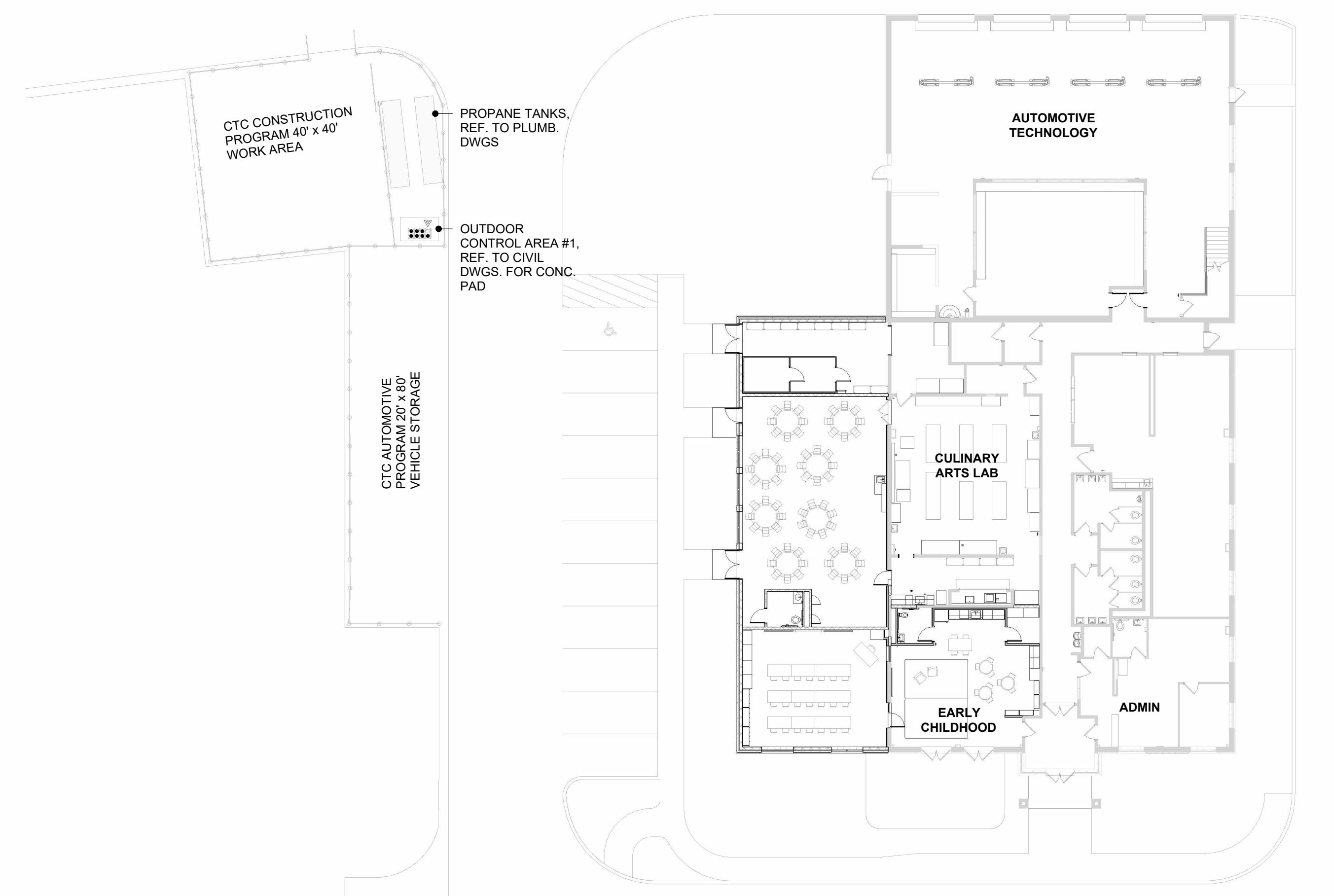
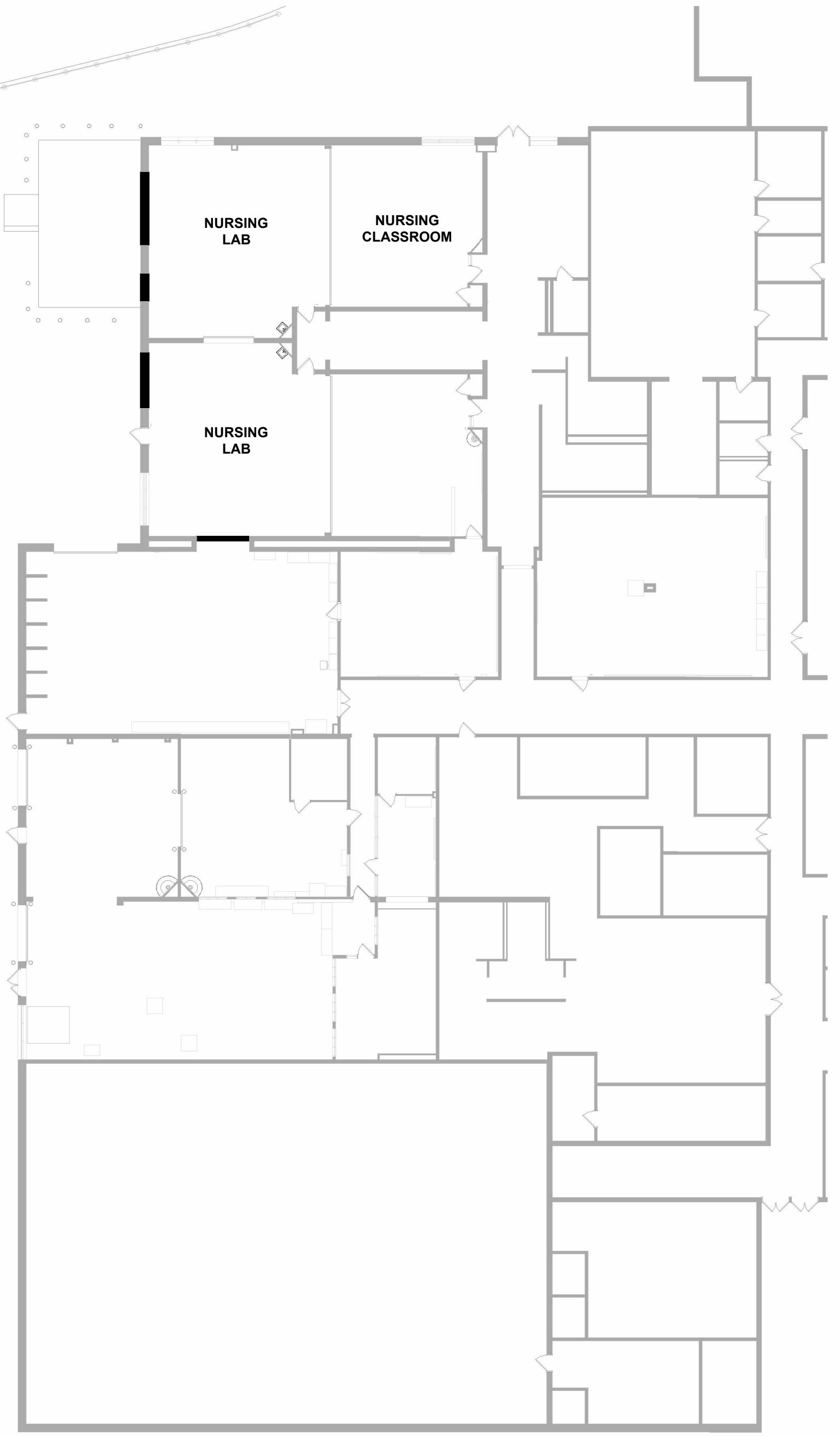
- PX MTL. STUD WITH 5/8" GWB E.S. INFILL TO MATCH EXISTING WALL THICKNESS, FILL WITH ACOUS. BATT INSUL.
- MX C.M.U. INFILL TO MATCH EXISTING WALL THICKNESS, MATCH EXISTING FIRE-RATING, WHERE APPLICABLE.

GENERAL NOTES

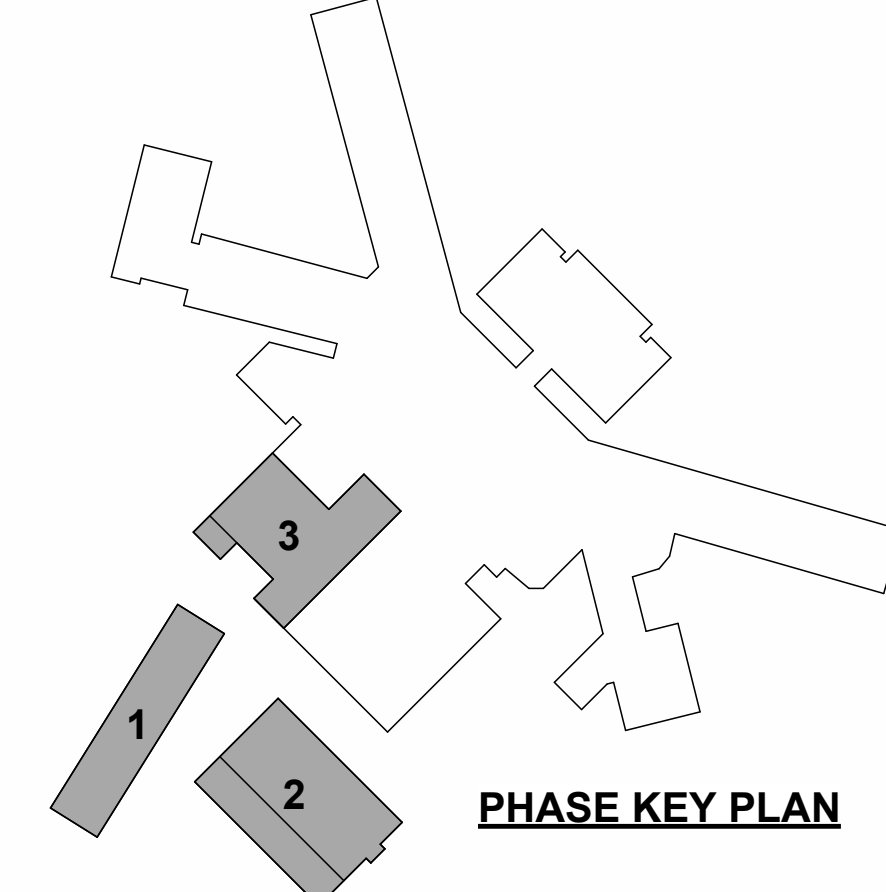
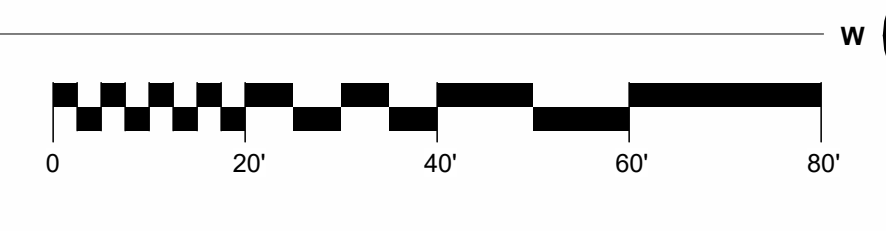
- CONTRACTOR SHALL FIELD MEASURE ALL DISTANCES AND CLEARANCES PRIOR TO COMMENCEMENT OF WORK OR ORDERING MATERIALS.
- WORK SHALL INCLUDE ALL LABOR, ASSEMBLIES, AND FINISH WORK INCLUDING ALL PARTS AND MATERIALS NECESSARY TO MAKE A COMPLETE, IN-PLACE, PROPERLY WORKING FINISHED INSTALLATION. UPON COMPLETION OF WORK, ALL FACILITIES SHALL BE IN FULL USE WITHOUT DEFECTS.
- PROTECT EXISTING BUILDING, FINISHES, FIXTURES, CASEWORK, EQUIPMENT, FURNITURE AND MATERIALS IN A MANNER WHICH WILL NOT SOIL, DEFACE, OR DAMAGE THESE EXISTING FACILITIES AND COMPONENTS. PROVIDE PROTECTIVE MATERIALS AS NECESSARY.
- PROTECT NEWLY INSTALLED FINISHES, FIXTURES, CASEWORK, EQUIPMENT, FURNITURE AND MATERIALS AS WELL AS ANY ITEMS REQUIRING STORAGE. PROVIDE PROTECTIVE MATERIALS AS NECESSARY.
- PROVIDE TEMPORARY PARTITIONS FOR EACH PHASE OF WORK AND AS REQUIRED FOR OCCUPANT EGRESS REQUIREMENTS. REFER TO PHASING PLANS FOR PHASING AREAS. PARTITIONS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION "TEMPORARY FACILITIES AND CONTROLS"; SHALL EXTEND FROM FLOOR TO STRUCTURE ABOVE, SHALL BE SEALED WITH A FULL PERIMETER SEAL AT BASE AND TOP OF PARTITION; AND MUST BE PROVIDED WITH SOLID AND LOCKABLE DOORS.
- PROVIDE FIRE EXTINGUISHERS AS REQUIRED BY CODE.
- REMOVE ALL CONSTRUCTION DEBRIS AS REQUIRED TO MAINTAIN A CLEAN ENVIRONMENT AND PREVENT THE POSSIBILITY OF ACCIDENT OR FIRE.
- WHERE EXISTING WALLS, UTILITIES OR OTHER CONSTRUCTION ARE REMOVED BELOW THE FLOOR SLAB INFILL WITH CRUSHED STONE, PROVIDE AND SEAL VAPOR BARRIER, AND PLACE NEW 4" REINFORCED CONCRETE, U.N.O. REFER TO DEMOLITION, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS TO COORDINATE THE AREAS REQUIRING CUTTING AND PATCHING.
- MINIMIZE BELOW SLAB CONDUIT TO THE GREATEST EXTENT POSSIBLE. BELOW SLAB CONDUIT IS PERMITTED ONLY FOR ELECTRICAL EQUIPMENT LOCATED IN THE FLOOR SLAB.
- CONCEAL CONDUIT AT NEW AND EXISTING CONSTRUCTION TO THE GREATEST EXTENT POSSIBLE. EXPOSED CONDUIT IS PERMITTED ONLY AT WELDING, DIESEL, AND AUTOMOTIVE SHOP AREAS. WHERE EXISTING CONDITIONS DO NOT PERMIT CONDUIT TO BE CONCEALED IN EXISTING WALLS, CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO EXPOSE CONDUIT PRIOR TO INSTALLATION.
- LOCATIONS AND HEIGHTS OF ALL OF THE FOLLOWING ITEMS REQUIRE WRITTEN APPROVAL BY THE ARCHITECT AND OWNER PRIOR TO INSTALLATION:
 - A. RECESSED FLOOR BOXES AND FLOOR MOUNTED POWER RECEPTACLES PRIOR TO CORE DRILLING OR POURING CONCRETE SLAB.
 - B. EXTERIOR WALL MOUNTED: POWER RECEPTACLES, ELECTRONIC ACCESS FOR DOORS, LIGHT FIXTURES, FIRE ALARM DEVICES, SPEAKERS, SURVEILLANCE CAMERAS, HOSE BIBS, MECHANICAL SENSORS OR SWITCHES, SHUT OFF VALVES AND OTHER WALL MOUNTED DEVICES PRIOR TO PLACEMENT OF CONDUIT OR SIMILAR WIRING, INSTALLATION OF WALL BOXES OR CUTTING OF WALL ASSEMBLIES.
 - C. INTERIOR WALL MOUNTED ELECTRICAL, DATA AND COMMUNICATION RECEPTACLES WHEN ADJACENT TO OR ABUTTING CASEWORK PRIOR TO INSTALLATION.
 - D. WALL AND CEILING ACCESS PANELS PRIOR TO INSTALLATION.

GENERAL PARTITION NOTES

- DIMENSIONS ARE TO FACE OF STUD OR FACE OF CMU, U.N.O.
- ALL NEW PARTITIONS SHALL BE PER PARTITION TYPE P4, U.N.O.
- REFER TO FINISH SCHEDULE FOR WALL FINISHES.
- NO PARTITIONS SHALL VARY MORE THAN 1/8" IN SURFACE PLANE IN 10 FEET IN ANY DIRECTION.
- PARTITIONS REQUIRING AN HOURLY RATING ARE INDICATED ON THE LIFE SAFETY PLANS, DESCRIBED IN THE PARTITION TYPES, THIS SHEET, AND ARE DEFINED BY A TESTING AGENCY DESIGN NUMBER. THE CONTRACTOR SHALL CONSTRUCT THESE PARTITIONS IN STRICT COMPLIANCE WITH THE TESTING AGENCY DESCRIPTION REFERRED TO BY THE DESIGN NUMBER. PARTITION TYPE DRAWINGS SHOULD BE USED FOR REFERENCE AND INFORMATION PURPOSES ONLY. SHOULD CONFLICTS OCCUR BETWEEN THE PARTITION TYPE AND THE TESTING AGENCY DESCRIPTION, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
- TOOTH IN ALL NEW MASONRY OR MASONRY PATCHING TO MATCH EXISTING MASONRY. THIS INCLUDES WHERE EXISTING MASONRY IS REMOVED TO PROVIDE ACCESS TO EXISTING STRUCTURE OR SYSTEMS.
- EXTEND ALL WALLS TIGHT TO THE FLOOR, ROOF DECK OR STRUCTURE ABOVE, U.N.O. CUT AND SCRIBE TOPS OF WALLS AS REQUIRED. PARTITIONS UNDER GABLE ROOFS SHALL EXTEND TO 12" - 0" A.F.F.
- SEAL FULL PERIMETER OF ALL WALLS WITH ACOUSTIC SEALANT AND AT ALL PENETRATIONS. PARTITIONS REQUIRING AND HOURLY RATING SHALL BE SEALED AS REQUIRED TO MAINTAIN THEIR RATING.
- INSTALL WALL PARTITIONS AND BRACING AROUND ABOVE-CEILING INTERFERENCES TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY. INTERFERENCES INCLUDE, BUT ARE NOT LIMITED TO, STRUCTURE, DUCTS, SPRINKLER LINES, CONDUIT AND OTHER INFRASTRUCTURE.
- PROVIDE HIGH ABUSE-RESISTANT TYPE GYPSUM BOARD TO A MINIMUM OF 8'-0" A.F.F. AT ALL WALL PARTITIONS THAT INCLUDE GYPSUM BOARD.
- PROVIDE A BULLNOSE EDGE AT ALL EXPOSED CMU WALLS, AND PROVIDE RADIUS CEILING EDGE TRACK ACCORDINGLY.
- PROVIDE CONTROL JOINTS AT INTERIOR CMU WALLS FOR WALL LENGTHS GREATER THAN 20' AND BETWEEN WALLS ON FLOOR SLABS AND WALLS ON FOOTINGS. REFER TO SPECIFICATION AND TYP. CONTROL JOINT DETAILS FOR MORE INFORMATION.
- PROVIDE BLOCKING IN ALL WALLS AS REQUIRED FOR ALL ITEMS ATTACHED TO WALL, INCLUDING BUT NOT LIMITED CABINETRY, MILLWORK, GRAB BARS, EQUIPMENT AND DEVICES. ALL ROUGH CARPENTRY, BLOCKING, AND MISCELLANEOUS WOOD FRAMING SHALL BE FIRE RETARDANT TREATED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REQUIREMENTS. GALVANIZED STEEL MAY BE USED IN LIEU OF FIRE RETARDANT WOOD BLOCKING FOR WALL HUNG SHELVEING, MILLWORK, AND HARDWARE PROVIDED THAT THE BACKING SHALL SPAN AT LEAST 3 STUDS.



1 OVERALL FLOOR PLANS
A1.0 1" = 20'-0"



THIS DRAWING IS THE PROPERTY OF THE ARCHITECT. IT IS TO BE USED ONLY FOR THE PROJECT AND FOR ANY FUTURE WORK WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.

CONSULTANT:

LYCOMING CTC EXPANSION & RENOVATION
LYCOMING CAREER & TECHNOLOGY CENTER
293 CEMETERY STREET,
HUGHESVILLE, PA 17337

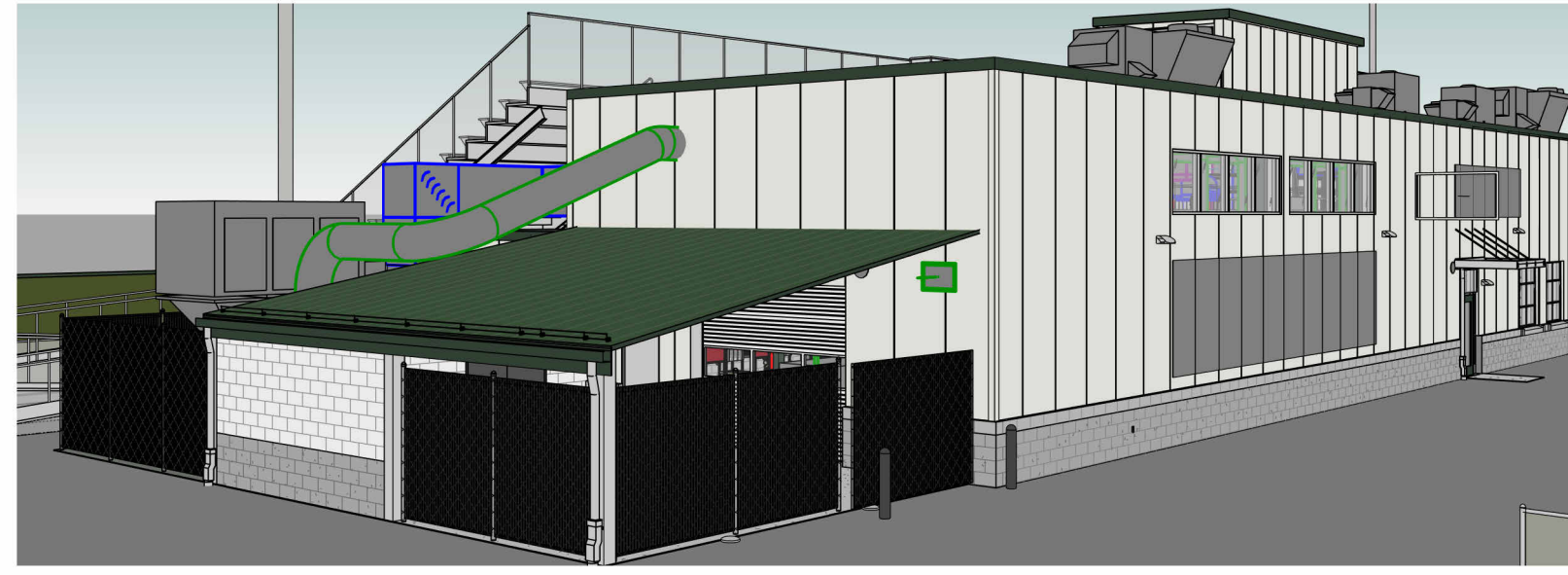
ISSUE DATES	DESCRIPTION
DATE:	

PROJ # : 24-LCTC-01 DRAWN BY : ABS/AWW

OVERALL FLOOR PLANS

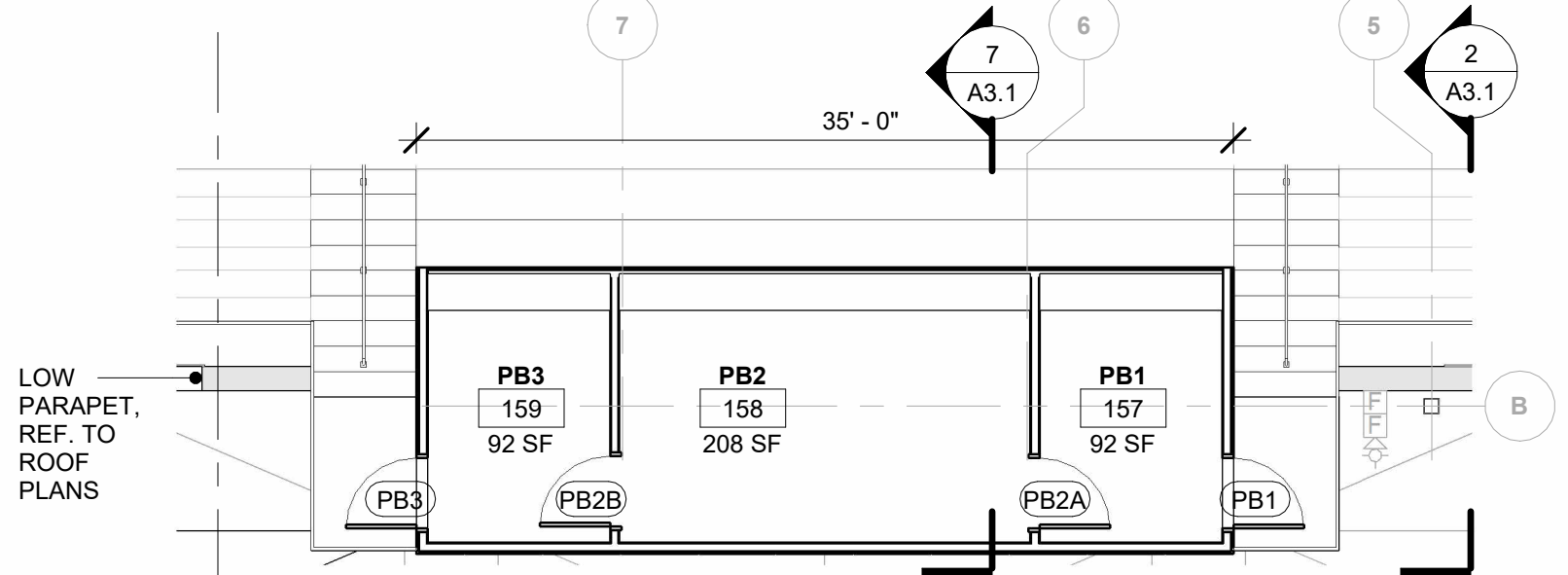
SHEET NUMBER:
A1.0

CONFORMED SET



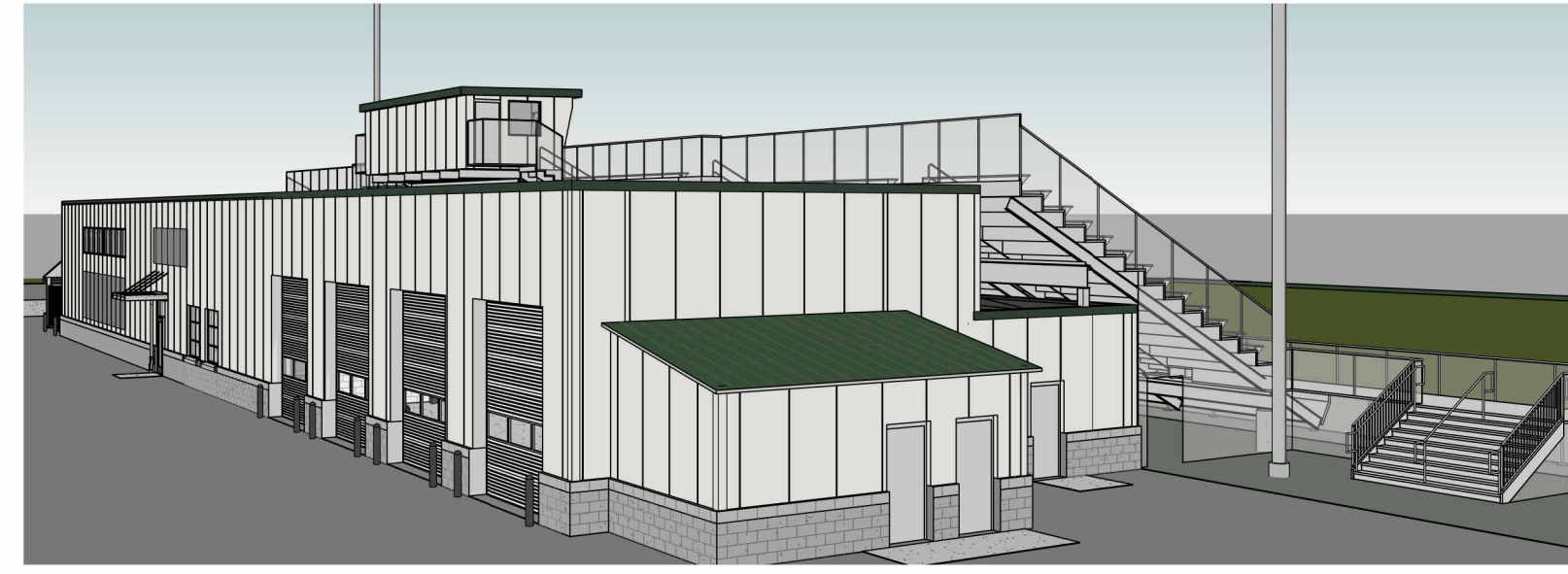
3 3D VIEW OF OUTDOOR FABRICATION

A1.1



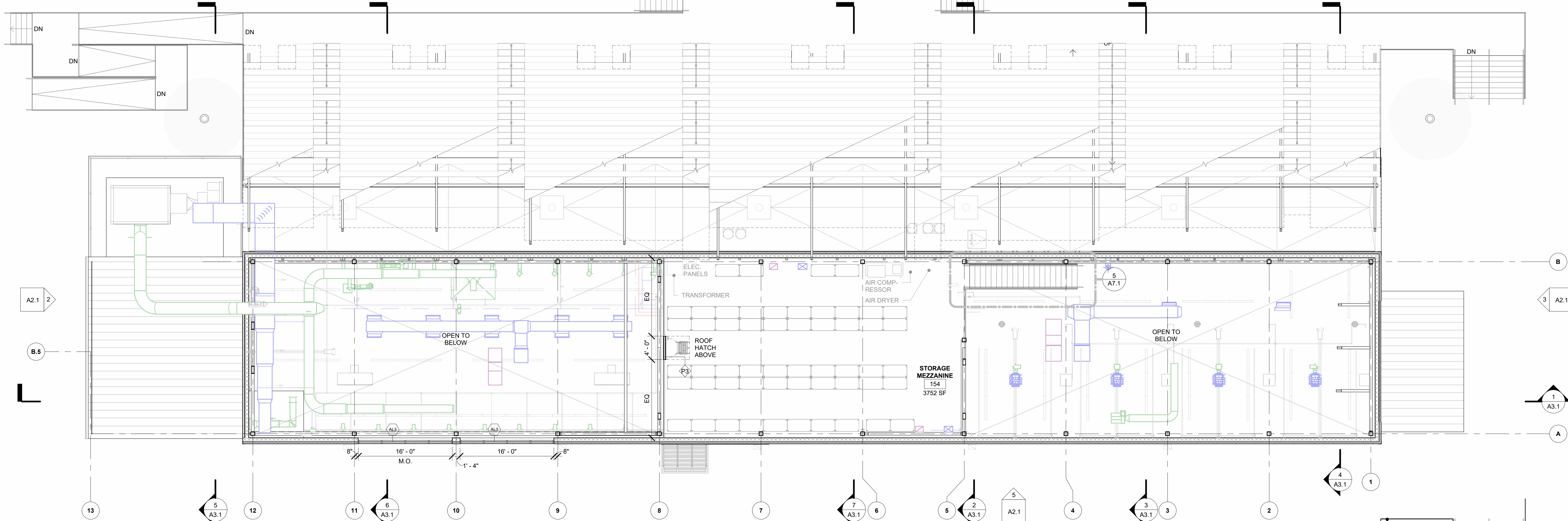
4 FLOOR PLAN - PRESS BOX

1/8" = 1'-0"



5 3D VIEW OF ELECTRICAL ROOM

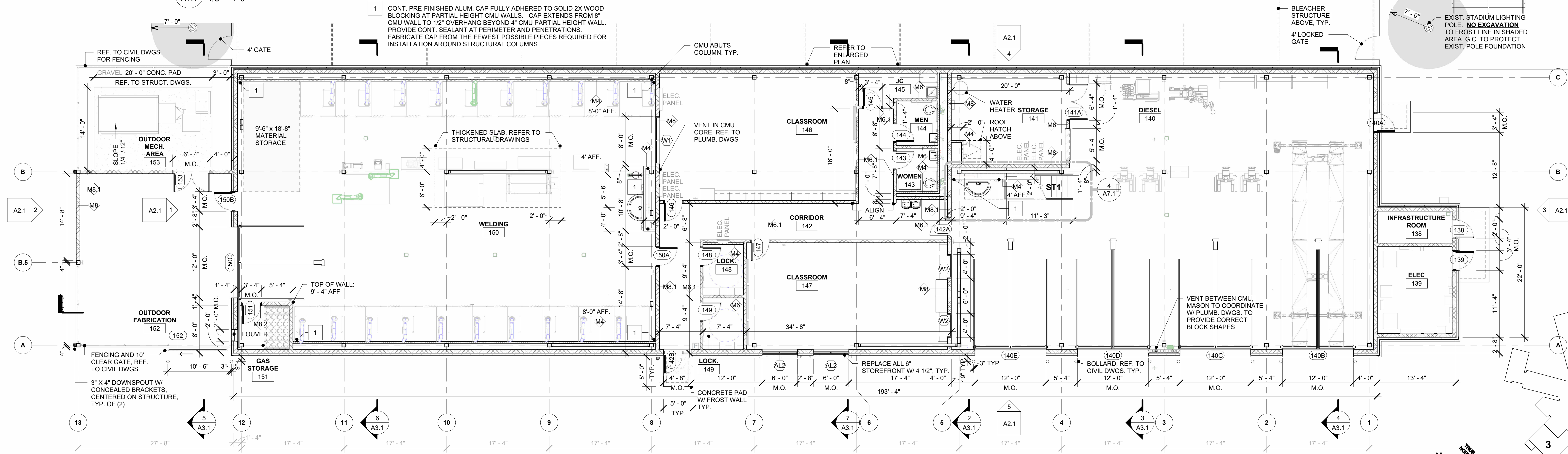
A1.1



2 FLOOR PLAN - MEZZANINE

1/8" = 1'-0"

1 CONT. PRE-FINISHED ALUM. CAP FULLY ADHERED TO SOLID 2X WOOD BLOCKING AT PARTIAL HEIGHT CMU WALLS. CAP EXTENDS FROM 8" CMU WALL TO 12" OVERHANG BEYOND 4" CMU PARTIAL HEIGHT WALL. PROVIDE CONT. SEALANT AT PERIMETER AND PENETRATIONS. FABRICATE CAP FROM THE FEWEST POSSIBLE PIECES REQUIRED FOR INSTALLATION AROUND STRUCTURAL COLUMNS



1 FLOOR PLAN - LEVEL 1

1/8" = 1'-0"

SEAL:
CONSULTANT:

**LYCOMING CTC EXPANSION
& RENOVATION**
LYCOMING CAREER &
TECHNOLOGY CENTER
293 CEMETERY STREET,
HUGHESVILLE, PA 17737

ISSUE DATES	DESCRIPTION
DATE:	

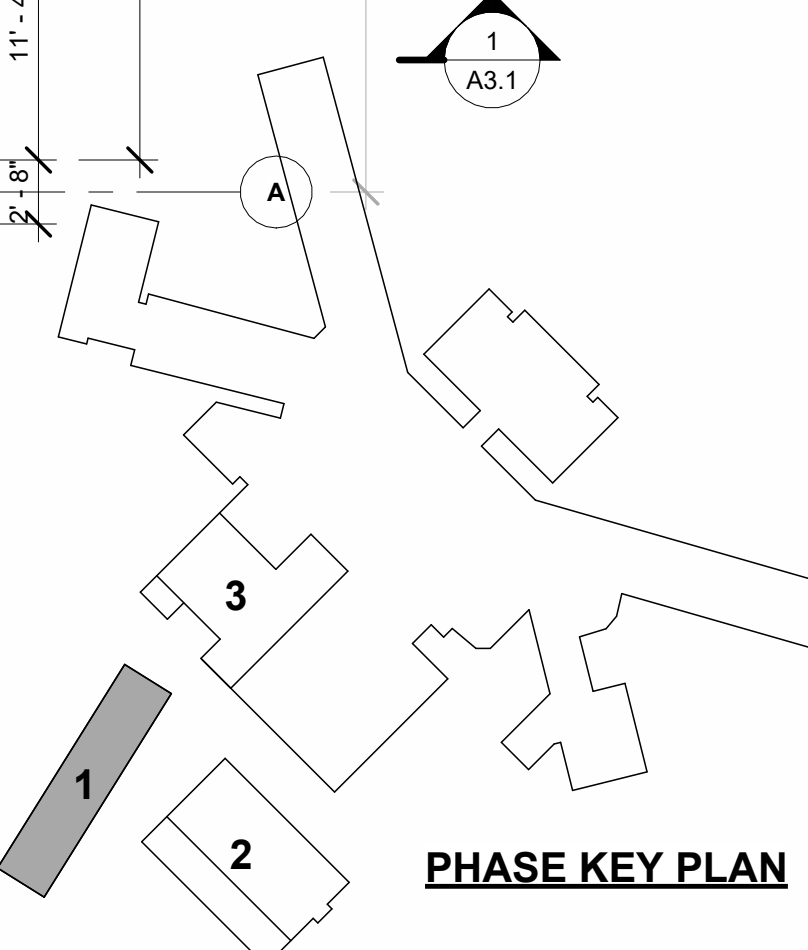
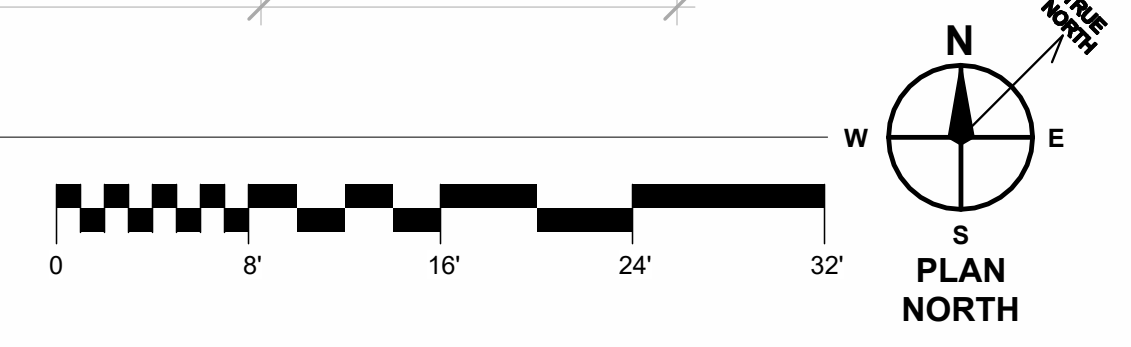
PROJ #1: 244LTC-01 DRAWN BY: ABS/AWW
SHEET TITLE:

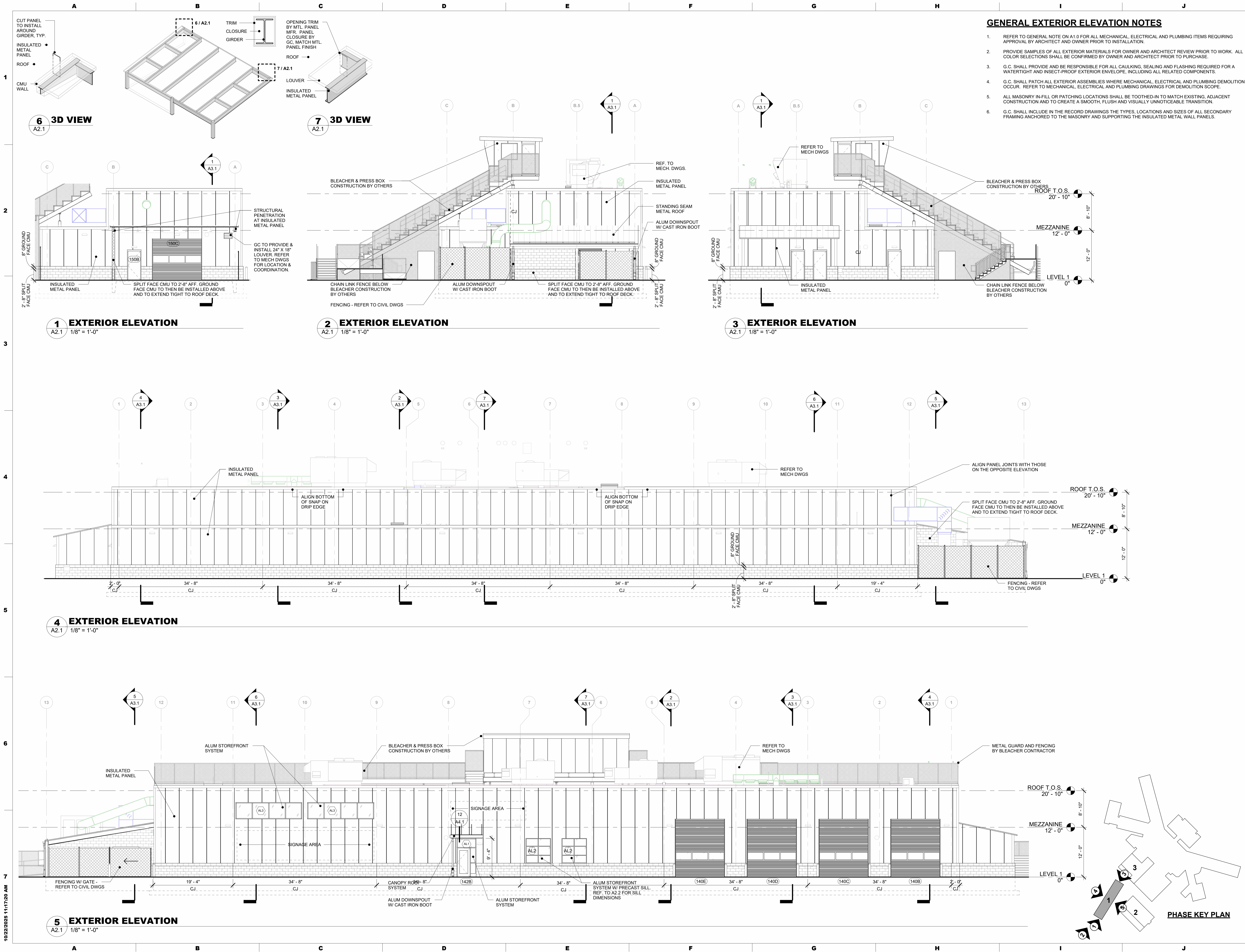
FLOOR PLAN - PHASE 1

SHEET NUMBER:
A1.1

CONFORMED SET

10/22/2025 11:16:24 AM





GENERAL EXTERIOR ELEVATION NOTES

1. REFER TO GENERAL NOTE ON A1.0 FOR ALL MECHANICAL, ELECTRICAL AND PLUMBING ITEMS REQUIRING APPROVAL BY ARCHITECT AND OWNER PRIOR TO INSTALLATION.
2. PROVIDE SAMPLES OF ALL EXTERIOR MATERIALS FOR OWNER AND ARCHITECT REVIEW PRIOR TO WORK. ALL COLOR SELECTIONS SHALL BE CONFIRMED BY OWNER AND ARCHITECT PRIOR TO PURCHASE.
3. G.C. SHALL PROVIDE AND BE RESPONSIBLE FOR ALL CAULKING, SEALING AND FLASHING REQUIRED FOR A WATERTIGHT AND INSECT-PROOF EXTERIOR ENVELOPE, INCLUDING ALL RELATED COMPONENTS.
4. G.C. SHALL PATCH ALL EXTERIOR ASSEMBLIES WHERE MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION OCCUR. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR DEMOLITION SCOPE.
5. ALL MASONRY IN-FILL OR PATCHING LOCATIONS SHALL BE TOOTHED-IN TO MATCH EXISTING, ADJACENT CONSTRUCTION AND TO CREATE A SMOOTH, FLUSH AND VISUALLY UNNOTICEABLE TRANSITION.
6. G.C. SHALL INCLUDE IN THE RECORD DRAWINGS THE TYPES, LOCATIONS AND SIZES OF ALL SECONDARY FRAMING ANCHORED TO THE MASONRY AND SUPPORTING THE INSULATED METAL WALL PANELS.

MAROTTA/MAIN ARCHITECTS
 WWW.MAROTTAMAIN.COM

SEAL: _____

CONSULTANT: _____

ISSUE DATES: _____
 DATE: _____

PROJ # : 244LCT-01
 SHEET TITLE: **EXTERIOR ELEVATIONS - PHASE 1**
 SHEET NUMBER: **A2.1**

LYCOMING CTC EXPANSION & RENOVATION
 LYCOMING CAREER & TECHNOLOGY CENTER
 293 CEMETERY STREET,
 HUGHESVILLE, PA 17737

CONFORMED SET

THIS DRAWING IS THE PROPERTY OF THE ARCHITECT. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREON. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM WITHOUT WRITTEN PERMISSION.

SEAL:

CONSULTANT:

**LYCOMING CTC EXPANSION
& RENOVATION**
LYCOMING CAREER & TECHNOLOGY CENTER
293 CEMETERY STREET,
HUGHESVILLE, PA 17737

ISSUE DATES

DATE:

DESCRIPTION:

PROJ # : 244LTC-01

SHEET TITLE:

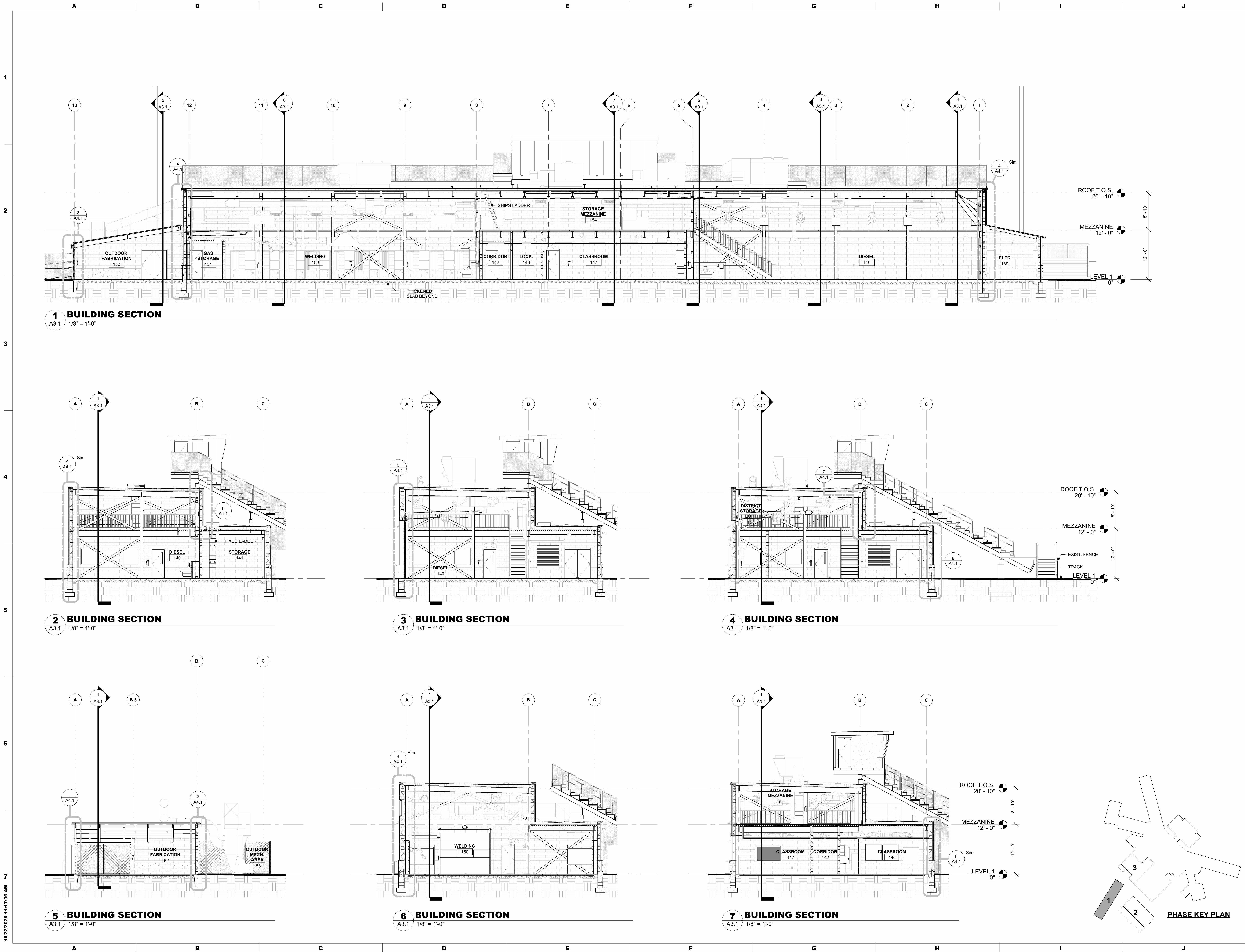
BUILDING SECTIONS - PHASE 1

DRAWN BY: ABS/AWW

SHEET NUMBER:

A3.1

CONFORMED SET



1 BUILDING SECTION
A3.1 1/8" = 1'-0"

2 BUILDING SECTION
A3.1 1/8" = 1'-0"

3 BUILDING SECTION
A3.1 1/8" = 1'-0"

4 BUILDING SECTION
A3.1 1/8" = 1'-0"

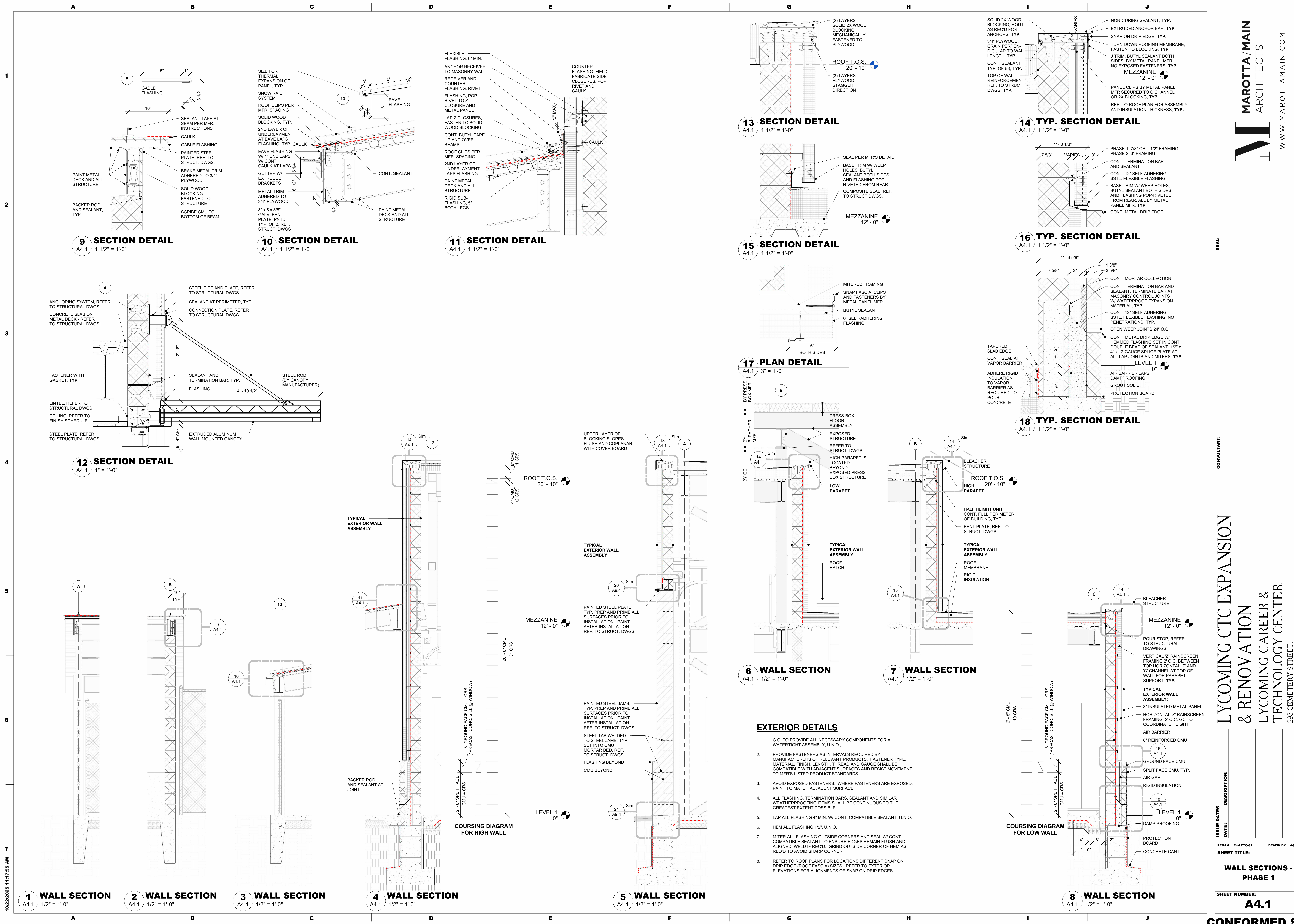
5 BUILDING SECTION
A3.1 1/8" = 1'-0"

6 BUILDING SECTION
A3.1 1/8" = 1'-0"

7 BUILDING SECTION
A3.1 1/8" = 1'-0"

PHASE KEY PLAN

10/22/2025 11:17:36 AM



10/22/2025 11:17:55 AM

THIS DRAWING IS THE PROPERTY OF THE ARCHITECT. IT IS TO BE USED ONLY FOR THE PROJECT AND FOR ANY FUTURE PERMITS.

CONSULTANT:

**LYCOMING CTC EXPANSION
 & RENOVATION**
 LYCOMING CAREER &
 TECHNOLOGY CENTER
 293 CEMETERY STREET,
 HUGHESVILLE, PA 17737

ISSUE DATES	DESCRIPTION
DATE:	

PROJ # : 244LCT-01 DRAWN BY : ADS/AWW
WALL SECTIONS - PHASE 1
 SHEET NUMBER:
A4.1

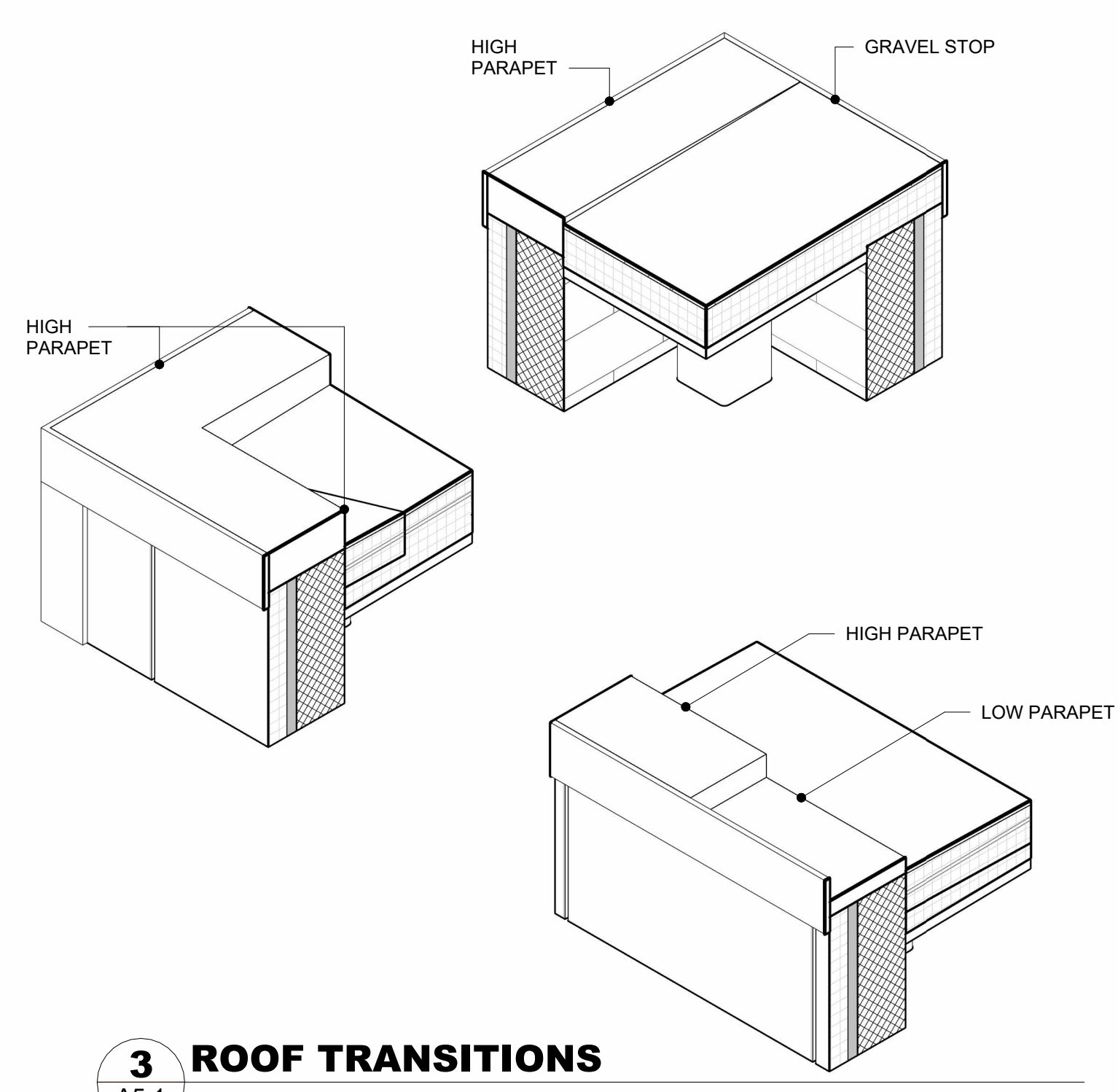
CONFORMED SET

EXTERIOR DETAILS

- G.C. TO PROVIDE ALL NECESSARY COMPONENTS FOR A WATERTIGHT ASSEMBLY, U.O.
- PROVIDE FASTENERS AS INTERVALS REQUIRED BY MANUFACTURERS OF RELEVANT PRODUCTS. FASTENER TYPE, MATERIAL, FINISH, LENGTH, THREAD AND GAUGE SHALL BE COMPATIBLE WITH ADJACENT SURFACES AND RESIST MOVEMENT TO MFR'S LISTED PRODUCT STANDARDS.
- AVOID EXPOSED FASTENERS. WHERE FASTENERS ARE EXPOSED, PAINT TO MATCH ADJACENT SURFACE.
- ALL FLASHING, TERMINATION BARS, SEALANT AND SIMILAR WEATHERPROOFING ITEMS SHALL BE CONTINUOUS TO THE GREATEST EXTENT POSSIBLE.
- LAP ALL FLASHING 4" MIN. W/ CONT. COMPATIBLE SEALANT, U.O.
- HEM ALL FLASHING 1/2", U.O.
- MITER ALL FLASHING OUTSIDE CORNERS AND SEAL W/ CONT. COMPATIBLE SEALANT TO ENSURE EDGES REMAIN FLUSH AND ALIGNED, WELD IF REQ'D. GRIND OUTSIDE CORNER OF HEM AS REQ'D TO AVOID SHARP CORNER.
- REFER TO ROOF PLANS FOR LOCATIONS DIFFERENT SNAP ON DRIP EDGE (ROOF FASCIA) SIZES. REFER TO EXTERIOR ELEVATIONS FOR ALIGNMENTS OF SNAP ON DRIP EDGES.

SEAL:

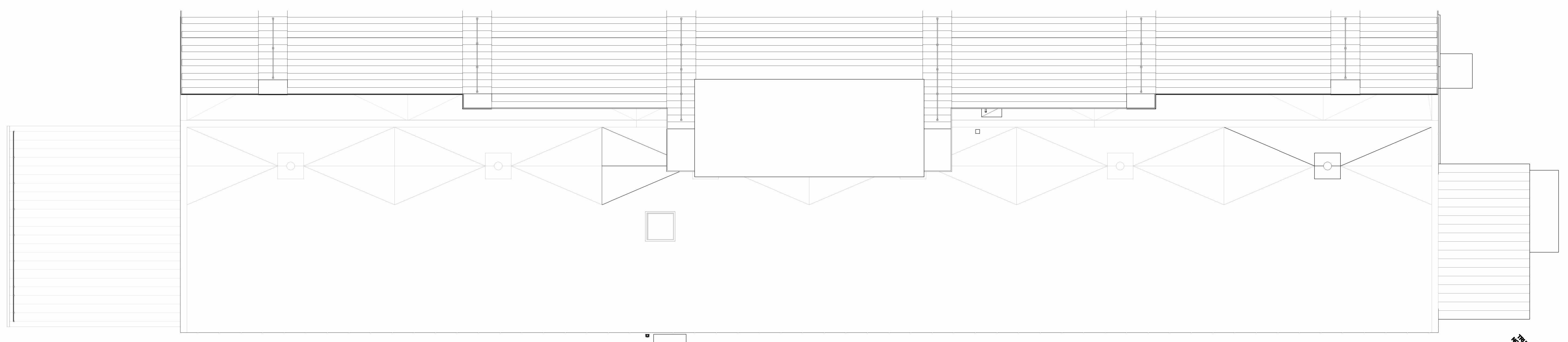
CONSULTANT:



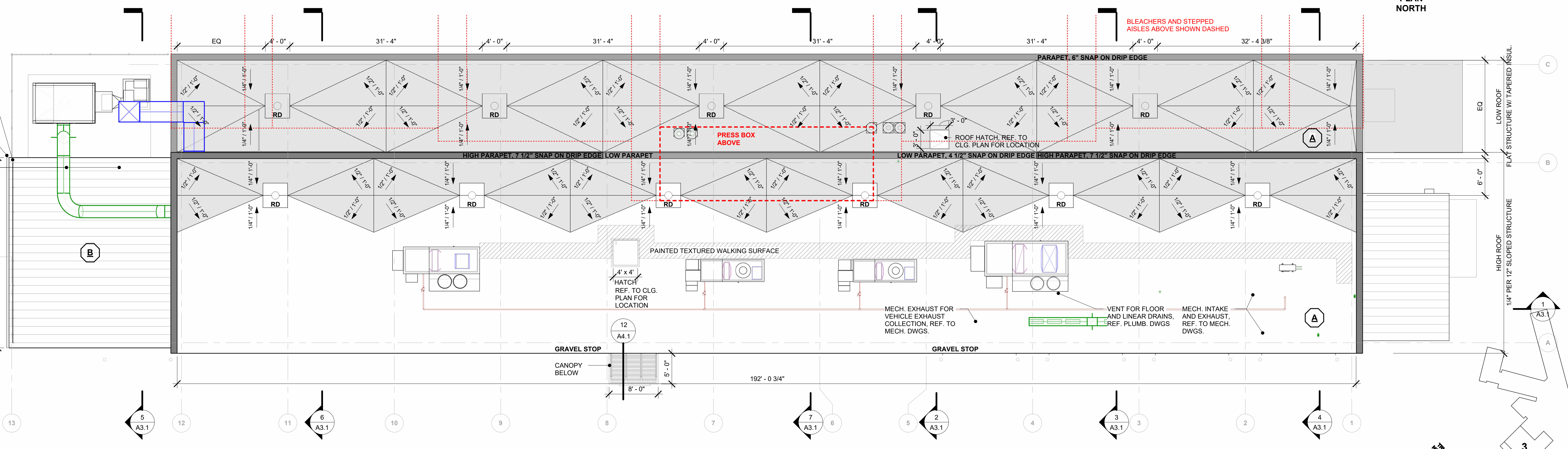
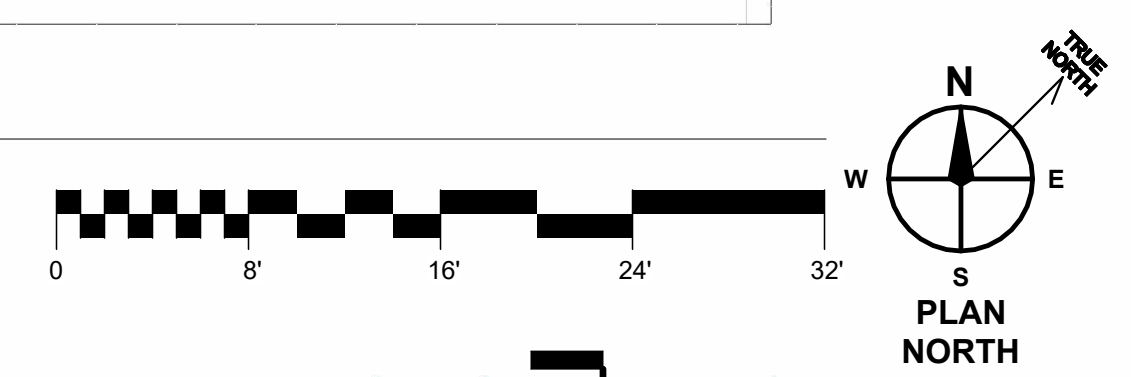
- GENERAL NOTES**
- MECHANICAL / ELECTRICAL / PLUMBING ROOF TOP EQUIPMENT IS SHOWN GENERALLY. G.C. SHALL COORDINATE WITH THE MECHANICAL, ELECTRICAL AND PLUMBING SHOP DRAWING FOR ROOF PENETRATION LOCATIONS, QUANTITIES, STRUCTURE, DIMENSIONS AND FLASHING REQUIREMENTS.
 - 1/4" TAPER INSULATION TO HAVE A MIN 1 1/2" MINIMUM THICKNESS - SEE ROOF CONSTRUCTION TYPE NOTES FOR FULL SCOPE.
 - IN ROOF TYPES NOTED TO BE MECHANICALLY FASTENED, LAYERS ARE TO BE ANCHORED TO THE BOTTOM FLUTE OF METAL ROOF DECK.

- ROOF TYPES**
- TYPE A** - KEE ROOF, 1/2" EXTERIOR COVER BOARD, TAPERED RIGID INSULATION WITH JOINTS STAGGERED BOTH DIRECTIONS AND TOP LAYERS ADHERED TO BASE LAYER MECHANICALLY FASTENED, METAL ROOF DECK ON FLAT STRUCTURE.
- TYPE B** - STANDING SEAM METAL ROOFING SYSTEM, SELF-ADHERING UNDERLAYMENT, ICE AND WATER SHIELD, 3/4" EXTERIOR GRADE PLYWOOD COVER BOARD SHEATHING MECHANICALLY FASTENED TO METAL ROOF DECK ON SLOPED STRUCTURE.
- TYPE C** - STANDING SEAM METAL ROOFING SYSTEM, SELF-ADHERING UNDERLAYMENT, ICE AND WATER SHIELD, 3/4" EXTERIOR GRADE PLYWOOD COVER BOARD SHEATHING ON 5/2" RIGID INSULATION (2 LAYERS OF 2 8" INSULATION WITH JOINTS STAGGERED BOTH DIRECTIONS), MECHANICALLY FASTENED TO METAL ROOF DECK.

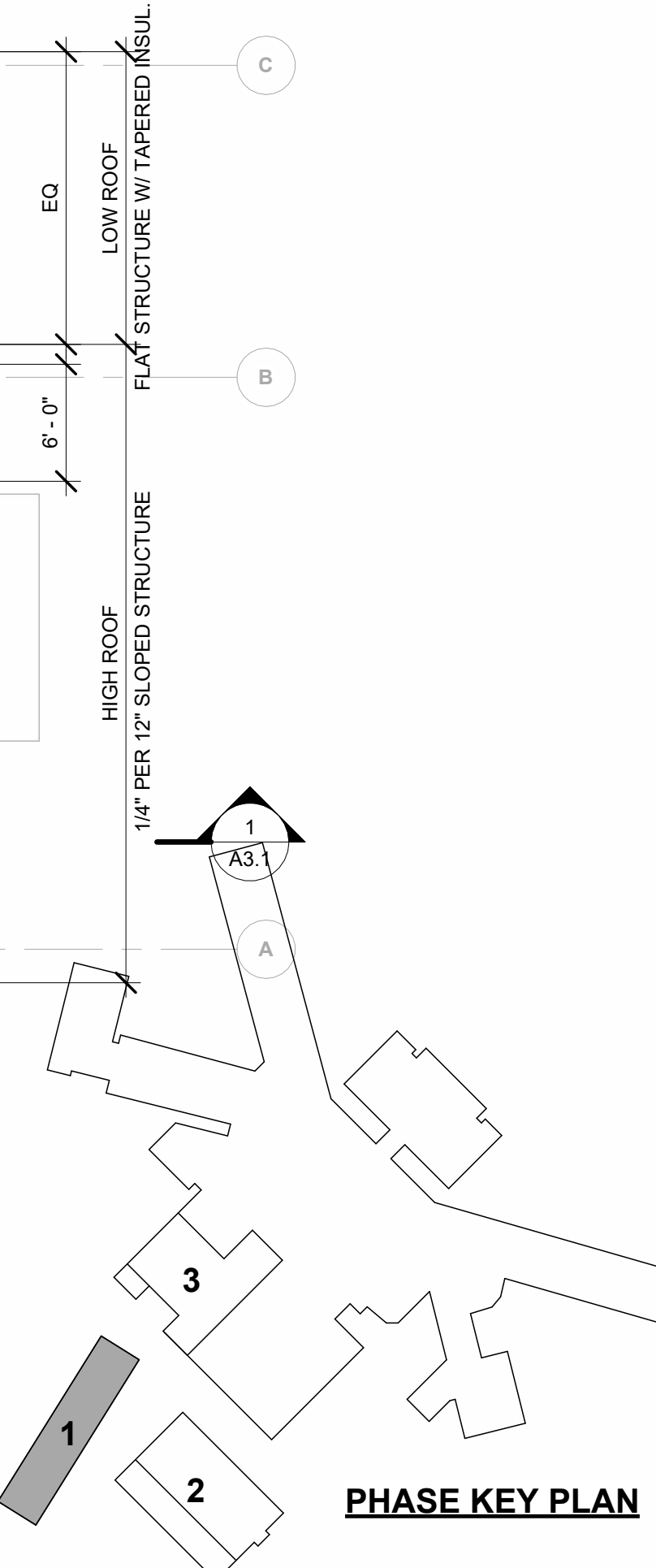
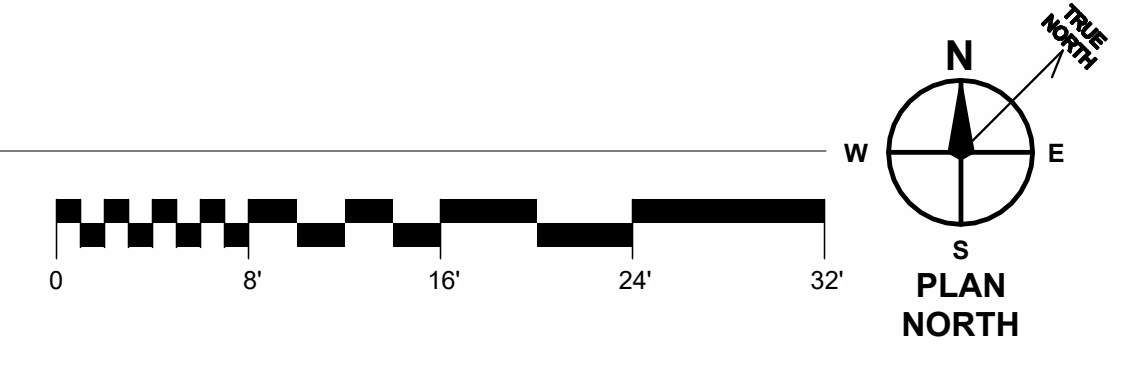
- ROOF LEGEND**
- RD ROOF DRAIN - PROVIDED AND SET BY PLUMBING CONTRACTOR. FLASHING BY ROOFING CONTRACTOR
 - SLOPE DIRECTION
 - X NEW ROOF CONSTRUCTION TYPE
 - TAPERED POLYSIO CRICKET
 - WALKING SURFACE - PROVIDE SELF ADHERING WALK SURFACE AS INDICATED



2 ROOF PLAN SHOWING BLEACHERS AND PRESS BOX BY OTHERS
A5.1 1/8" = 1'-0"



1 ROOF PLAN
A5.1 1/8" = 1'-0"



CONSULTANT:

LYCOMING CTC EXPANSION & RENOVATION
LYCOMING CAREER & TECHNOLOGY CENTER
 293 CEMETERY STREET,
 HUGHESVILLE, PA 17737

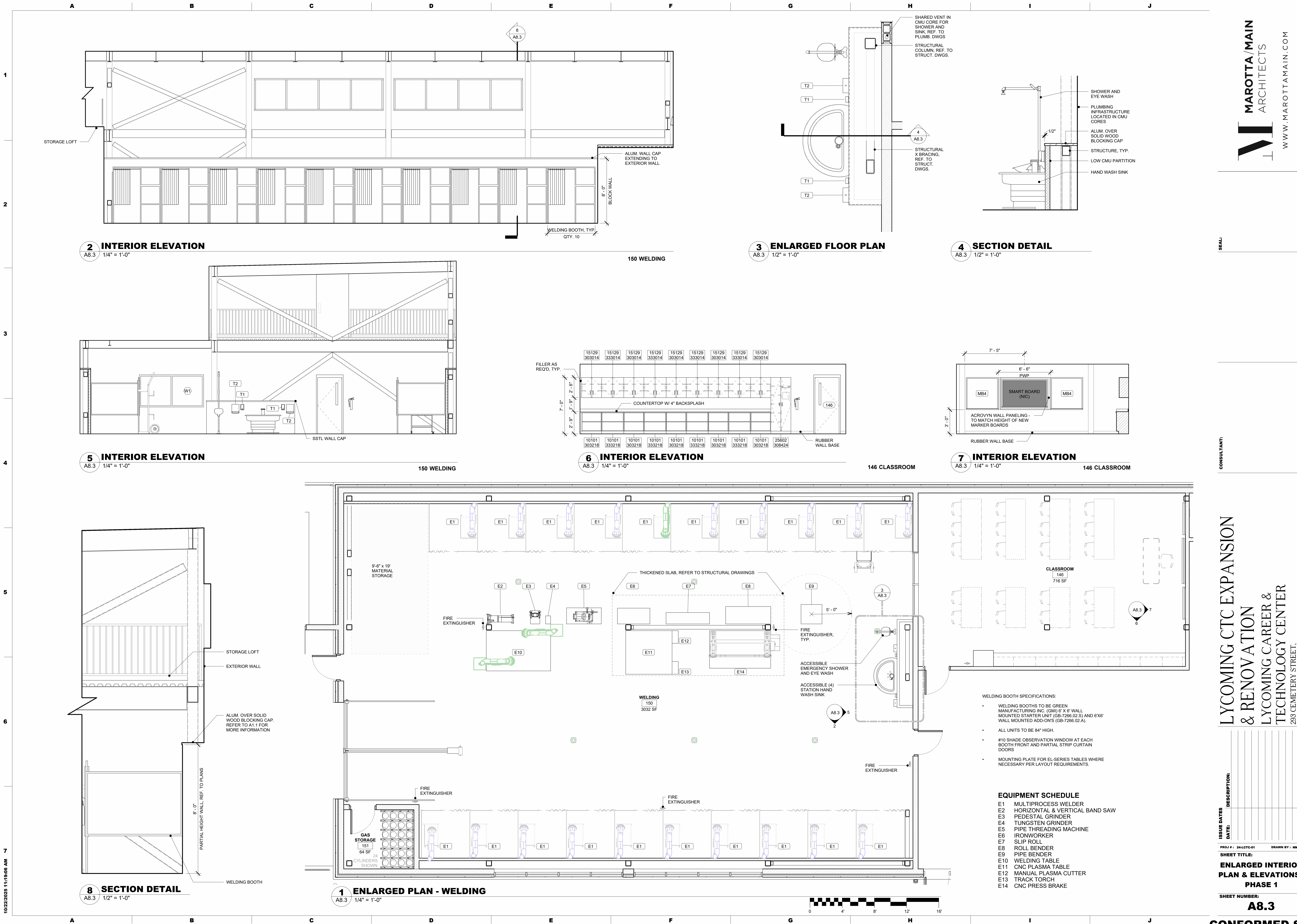
ISSUE DATES	DESCRIPTION
DATE:	

PROJ #: 244LCT-01 DRAWN BY: AWJ
 SHEET TITLE:
 SHEET NUMBER:

ROOF PLAN - PHASE 1

A5.1

CONFORMED SET



SEAL:

THIS DRAWING IS THE PROPERTY OF THE ARCHITECT. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM WITHOUT WRITTEN PERMISSION.

CONSULTANT:

LYCOMING CTC EXPANSION & RENOVATION
LYCOMING CAREER & TECHNOLOGY CENTER
293 CEMETERY STREET,
HUGHESVILLE, PA 17737

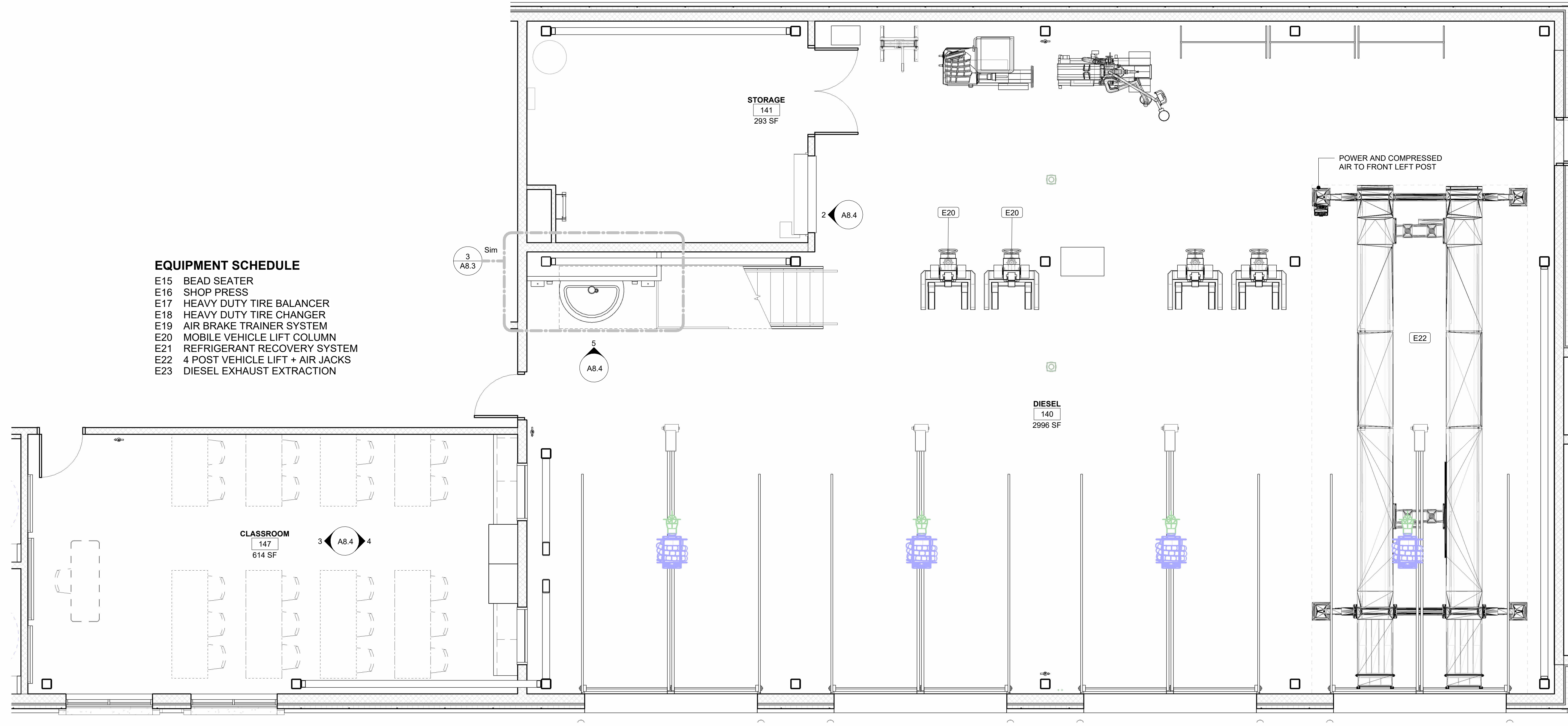
ISSUE DATES	DESCRIPTION
DATE:	

PROJ #: 24-LCTC-01 DRAWN BY: MMH/AWW

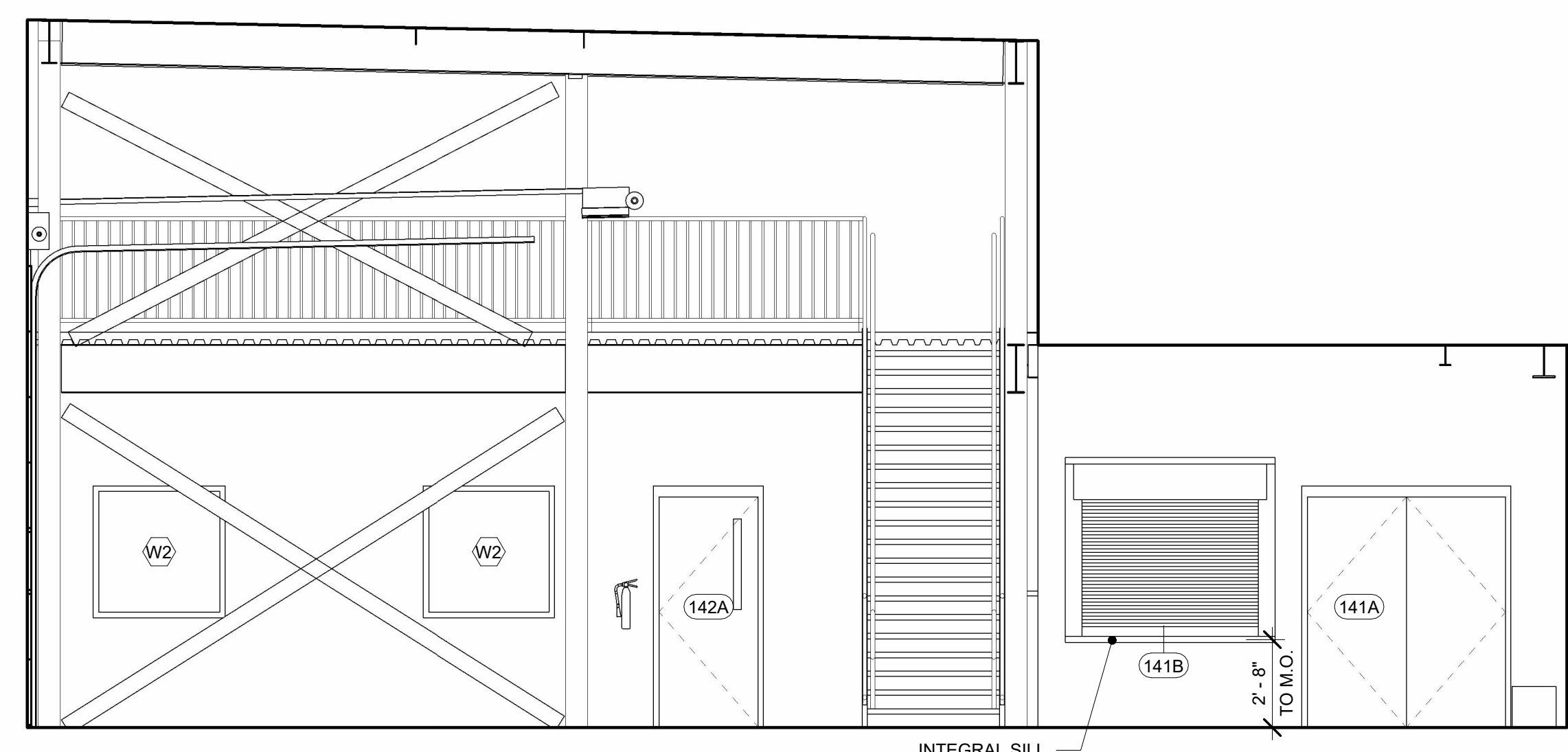
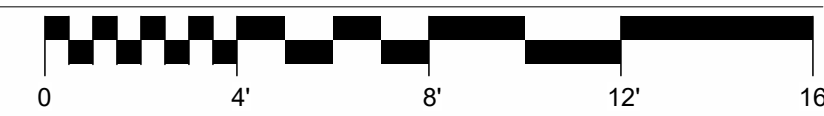
SHEET TITLE:
ENLARGED INTERIOR PLAN & ELEVATIONS - PHASE 1

SHEET NUMBER:
A8.3

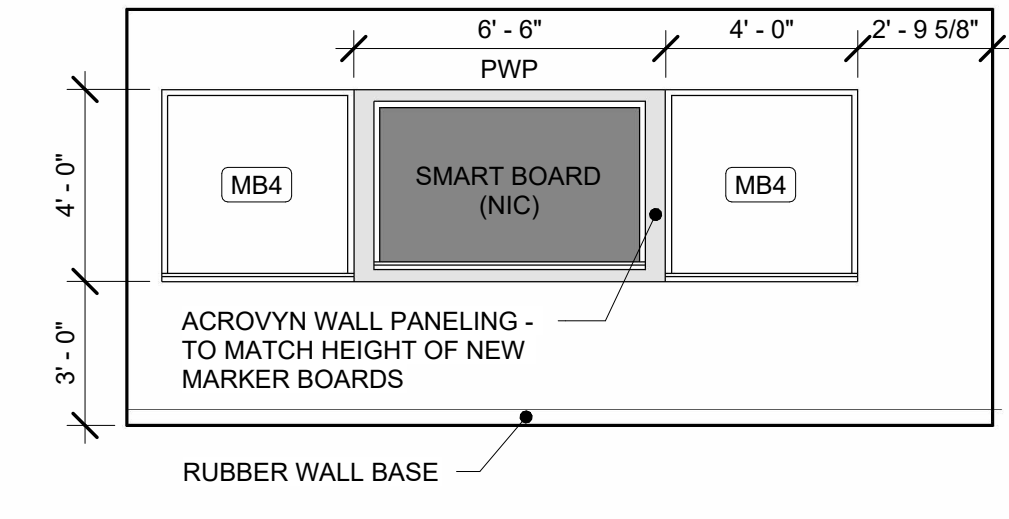
10/22/2025 11:19:06 AM



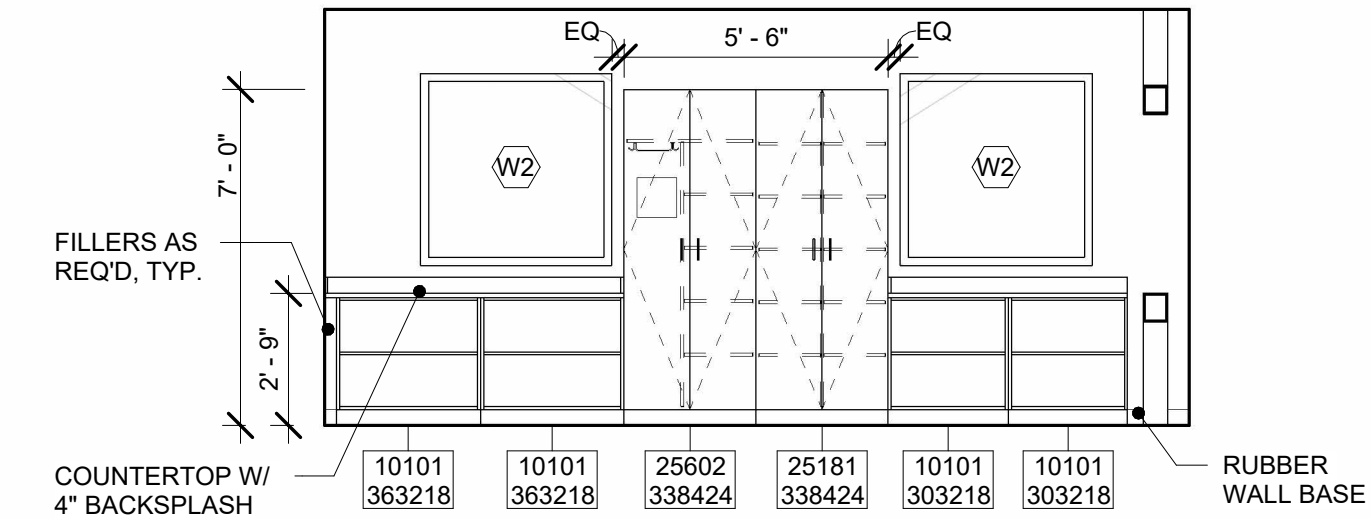
1 ENLARGED PLAN - DIESEL
A8.4 1/4" = 1'-0"



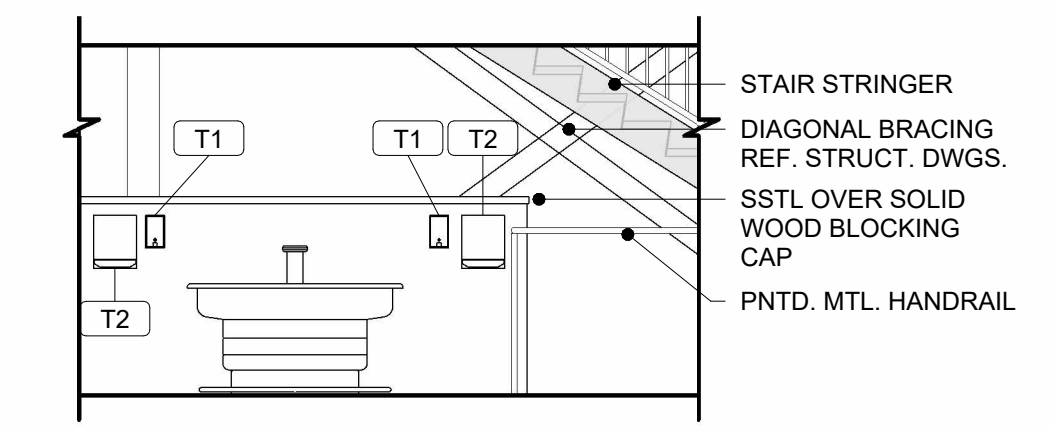
2 INTERIOR ELEVATION
A8.4 1/4" = 1'-0"



3 INTERIOR ELEVATION
A8.4 1/4" = 1'-0"

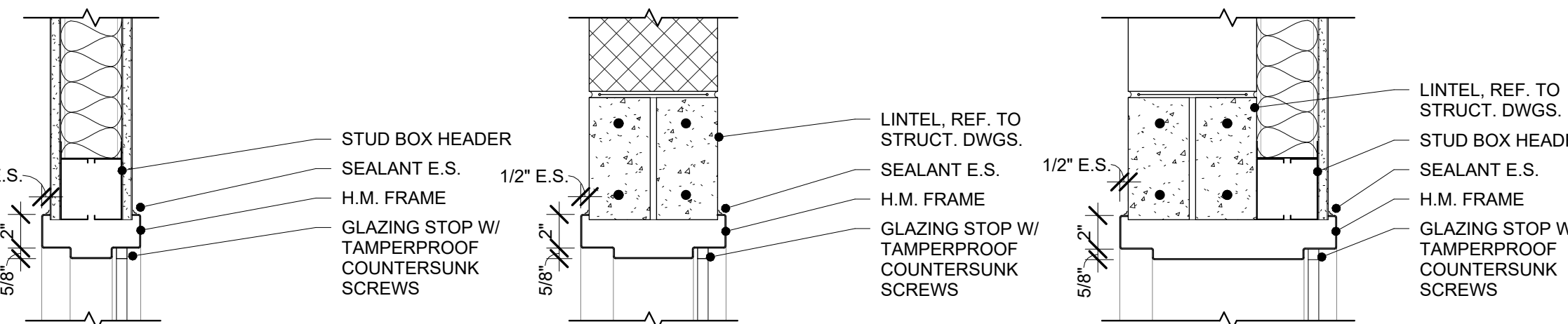


4 INTERIOR ELEVATION
A8.4 1/4" = 1'-0"

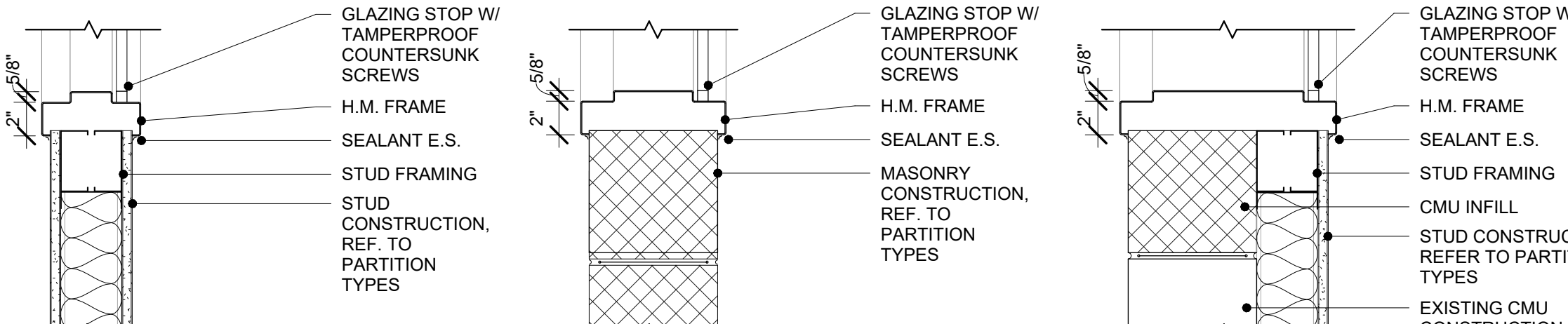


5 INTERIOR ELEVATION
A8.4 1/4" = 1'-0"

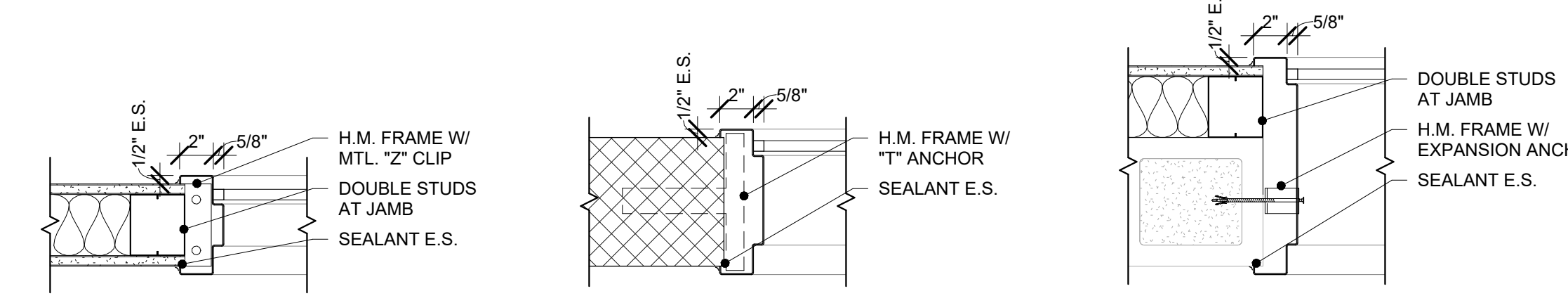
INTERIOR WINDOWS



1 WINDOW HEAD 1 1/2" = 1'-0" 2 WINDOW HEAD 1 1/2" = 1'-0" 3 WINDOW HEAD 1 1/2" = 1'-0"

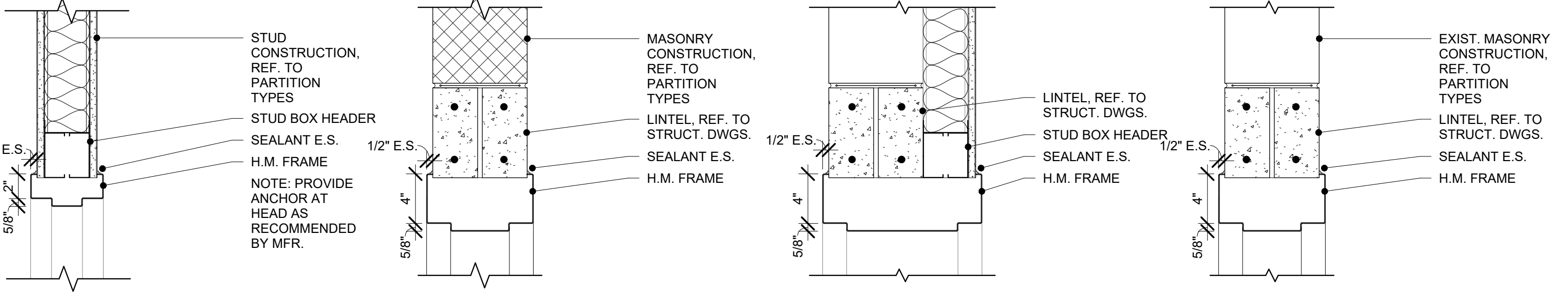


4 WINDOW SILL 1 1/2" = 1'-0" 5 WINDOW SILL 1 1/2" = 1'-0" 6 WINDOW SILL 1 1/2" = 1'-0"

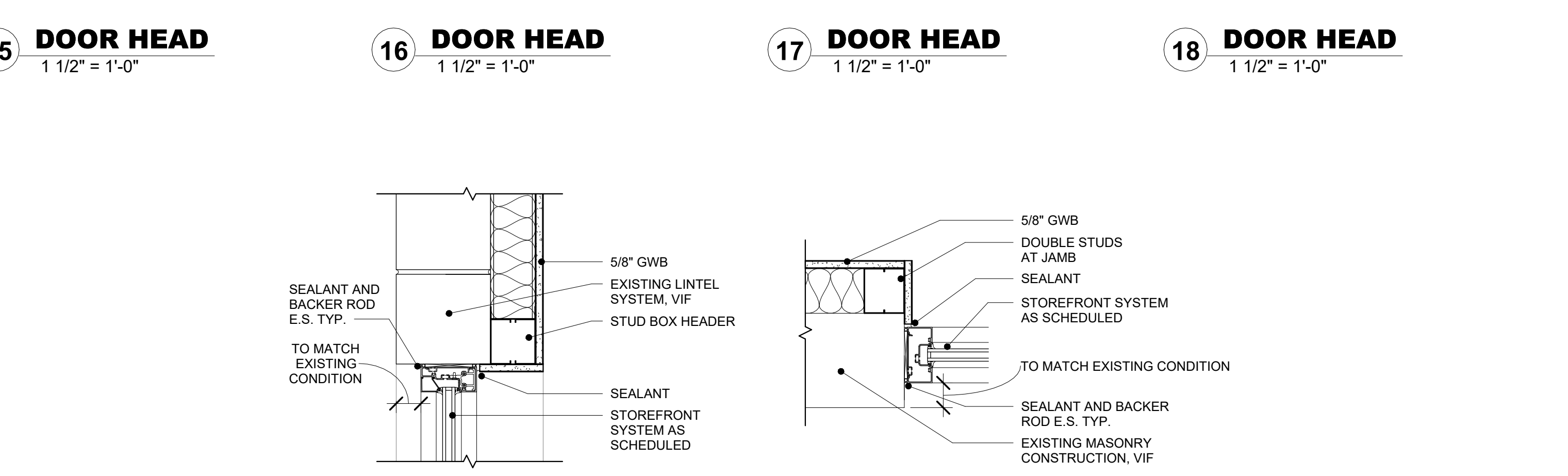


7 WINDOW JAMB 1 1/2" = 1'-0" 8 WINDOW JAMB 1 1/2" = 1'-0" 9 WINDOW JAMB 1 1/2" = 1'-0"

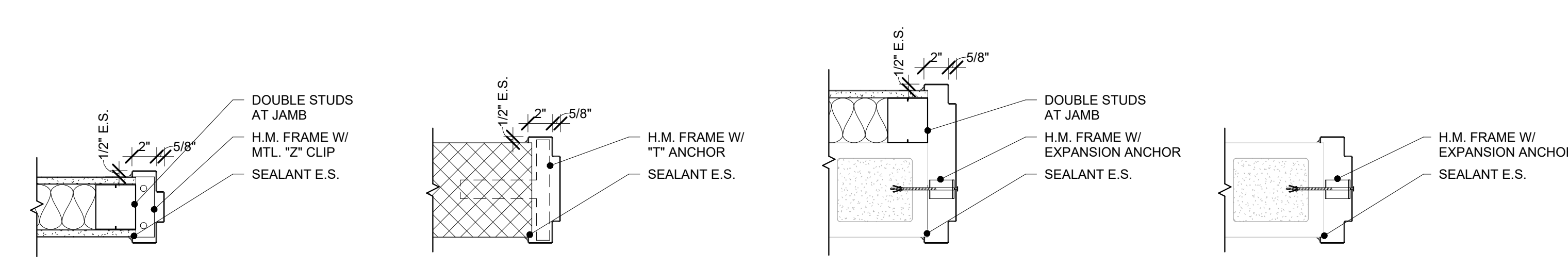
INTERIOR DOORS



15 DOOR HEAD 1 1/2" = 1'-0" 16 DOOR HEAD 1 1/2" = 1'-0" 17 DOOR HEAD 1 1/2" = 1'-0" 18 DOOR HEAD 1 1/2" = 1'-0"

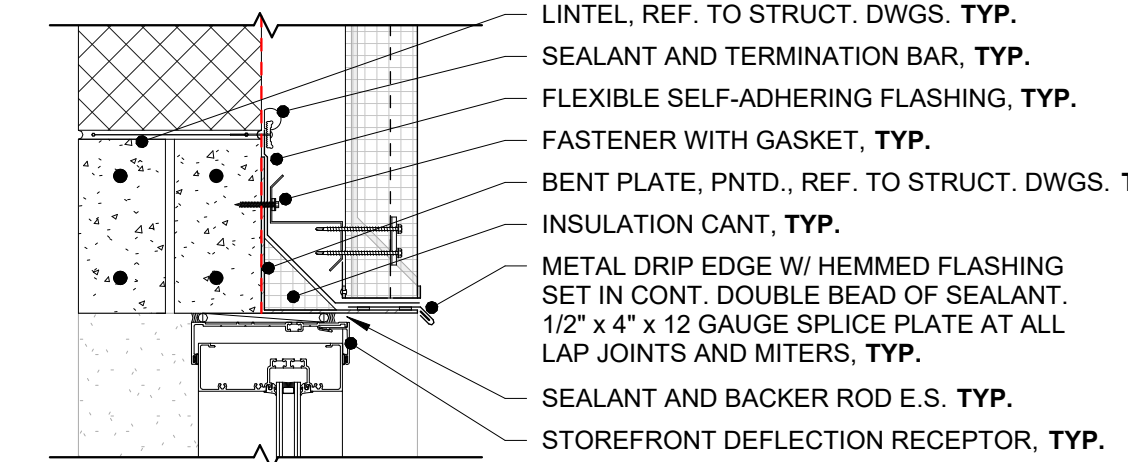


19 DOOR JAMB 1 1/2" = 1'-0" 20 DOOR JAMB 1 1/2" = 1'-0" 21 DOOR JAMB 1 1/2" = 1'-0" 22 DOOR JAMB 1 1/2" = 1'-0"

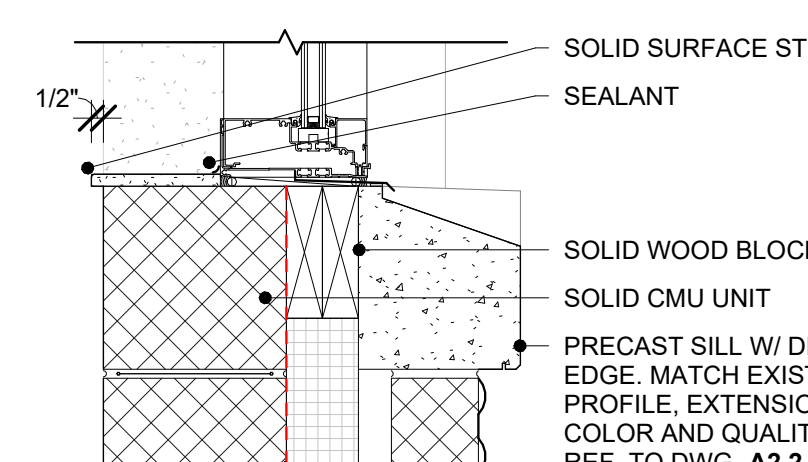


23 DOOR SILL 1 1/2" = 1'-0" 24 DOOR SILL 1 1/2" = 1'-0" 25 DOOR SILL 1 1/2" = 1'-0" 26 DOOR SILL 1 1/2" = 1'-0"

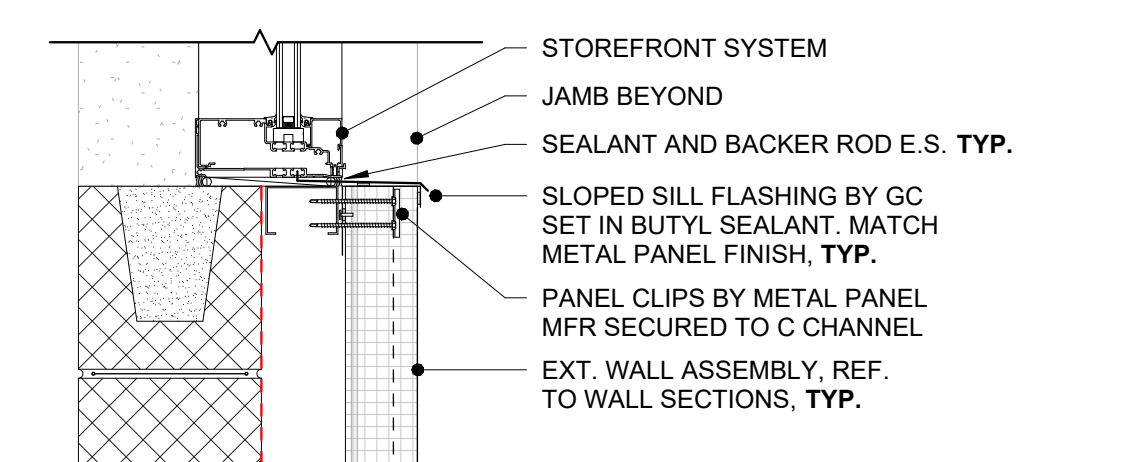
EXTERIOR WINDOWS



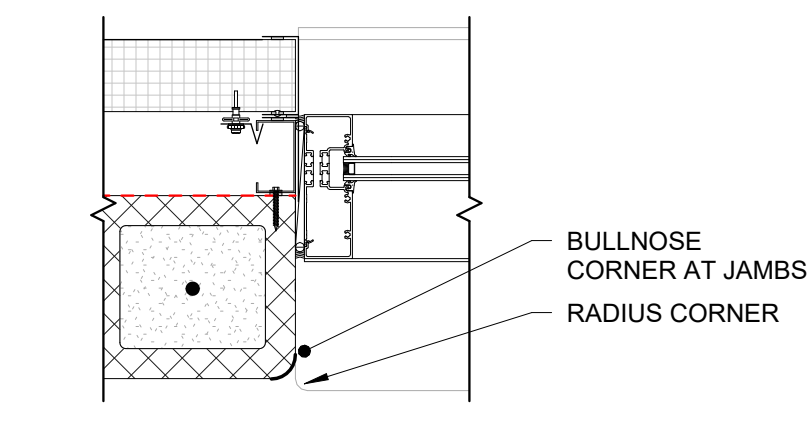
10 WINDOW HEAD 1 1/2" = 1'-0"



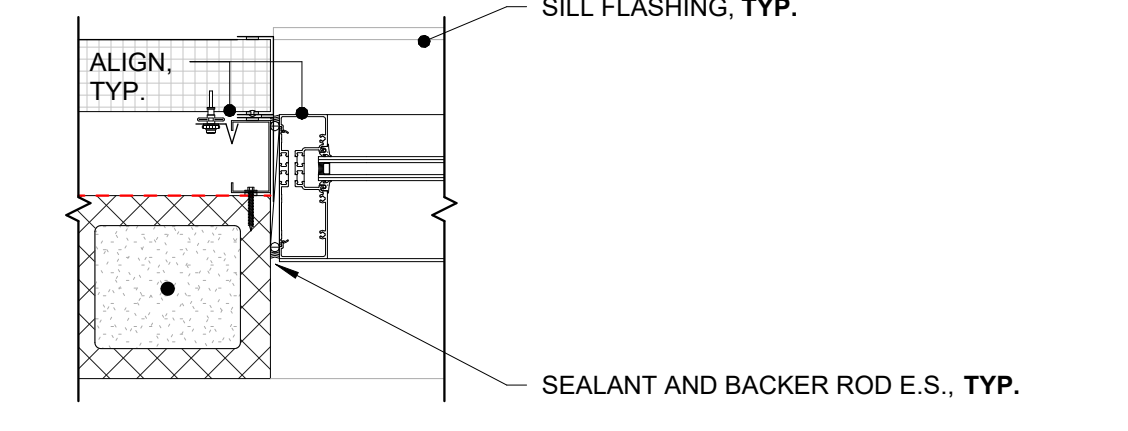
11 WINDOW SILL 1 1/2" = 1'-0"



12 WINDOW SILL 1 1/2" = 1'-0"

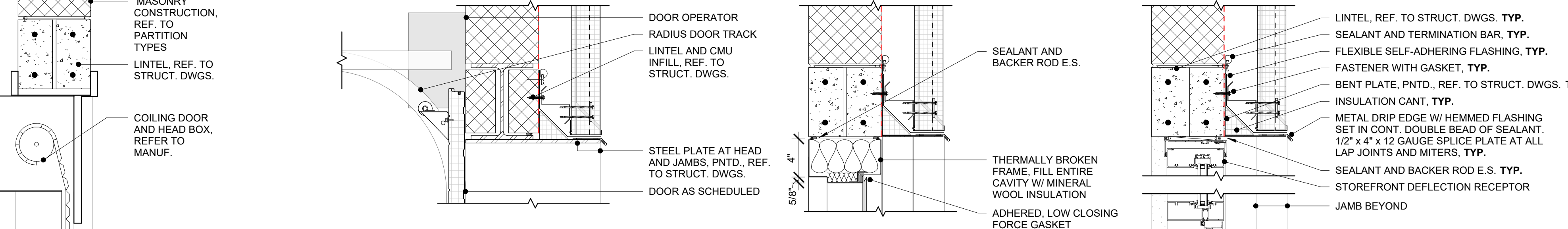


13 WINDOW JAMB 1 1/2" = 1'-0"

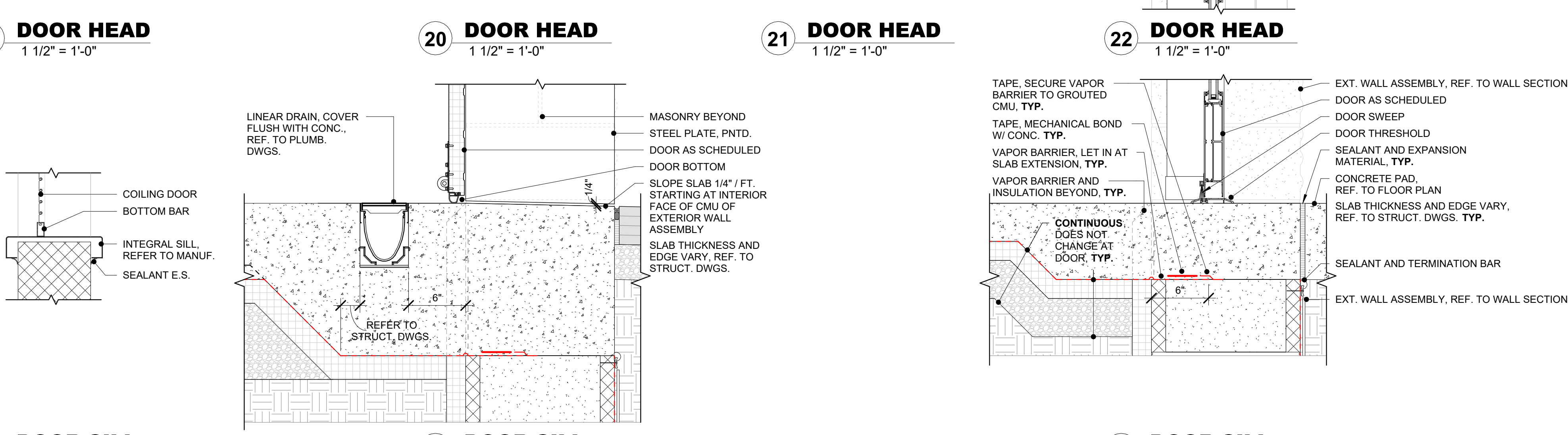


14 WINDOW JAMB 1 1/2" = 1'-0"

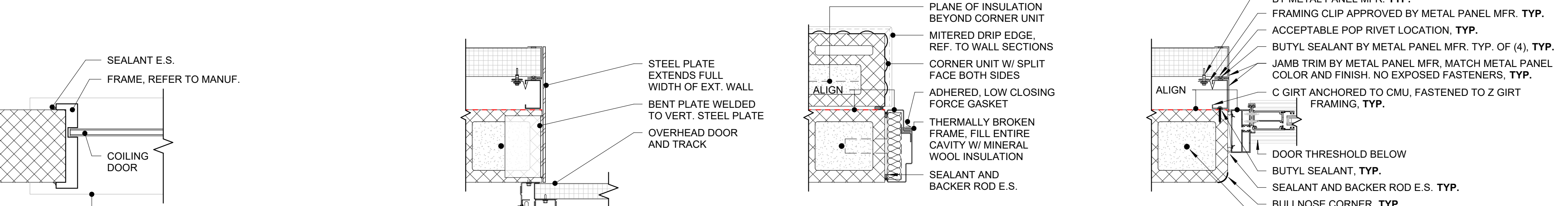
EXTERIOR DOORS



19 DOOR HEAD 1 1/2" = 1'-0" 20 DOOR HEAD 1 1/2" = 1'-0" 21 DOOR HEAD 1 1/2" = 1'-0" 22 DOOR HEAD 1 1/2" = 1'-0"



23 DOOR SILL 1 1/2" = 1'-0" 24 DOOR SILL 1 1/2" = 1'-0" 25 DOOR SILL 1 1/2" = 1'-0" 26 DOOR SILL 1 1/2" = 1'-0"



27 DOOR JAMB 1 1/2" = 1'-0" 28 DOOR JAMB 1 1/2" = 1'-0" 29 DOOR JAMB 1 1/2" = 1'-0" 30 DOOR JAMB 1 1/2" = 1'-0"

THIS DRAWING IS THE PROPERTY OF THE ARCHITECT. NO PART OF THIS DRAWING IS TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.

CONSULTANT:

LYCOMING CTC EXPANSION & RENOVATION LYCOMING CAREER & TECHNOLOGY CENTER 293 CEMETERY STREET, HUGHESVILLE, PA 17737

Table with columns for ISSUE DATES, DESCRIPTION, and DRAWN BY.

PROJ #: 244LCT-01 DRAWN BY: AWB

DOOR & WINDOW DETAILS

SHEET NUMBER: A9.4

CONFORMED SET