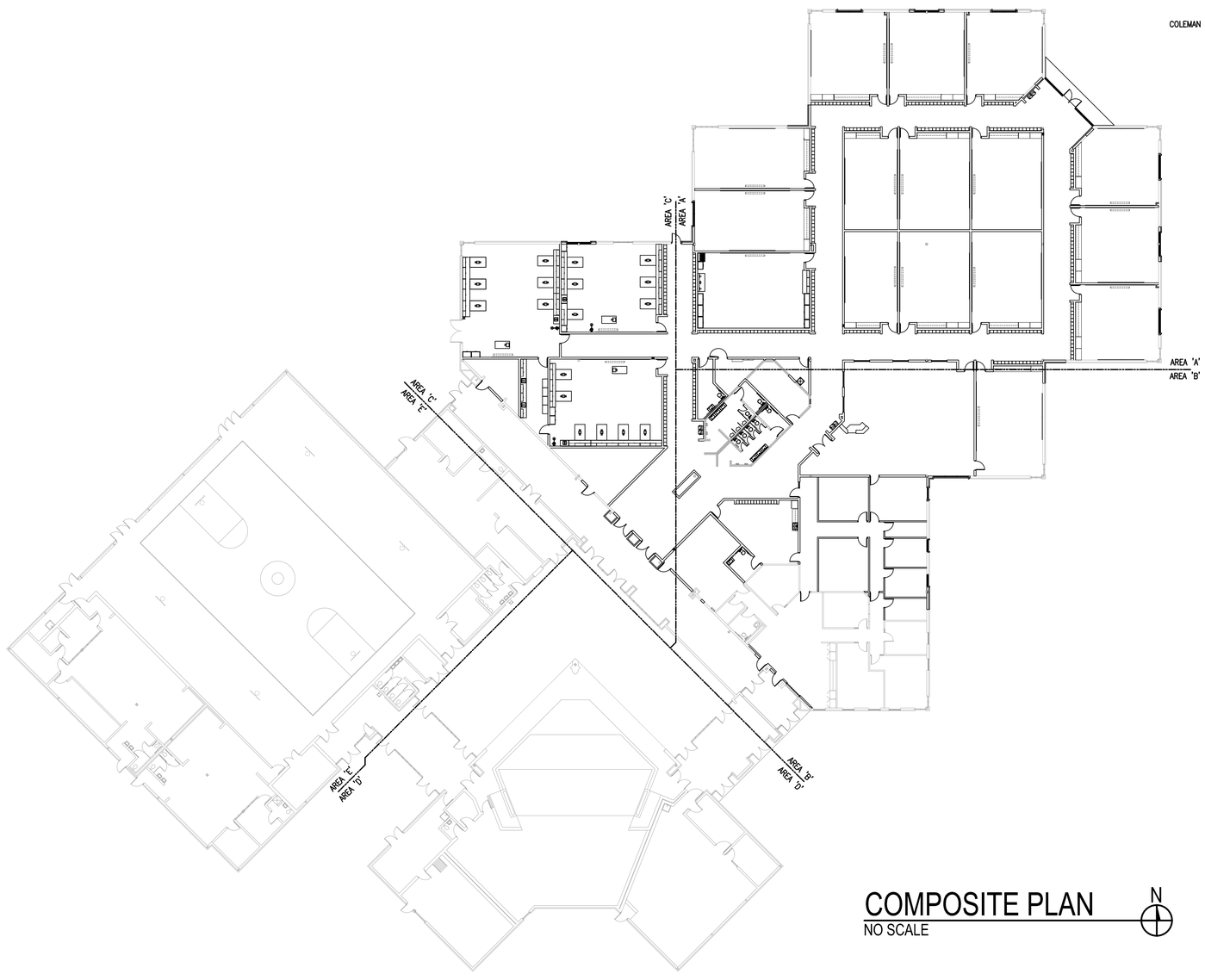
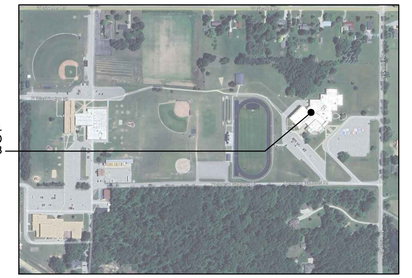
COLEMAN COMMUNITY SCHOOLS
COLEMAN, MICHIGAN

2025 - MIDDLE/HIGH SCHOOL RENOVATION



COMPOSITE PLAN
NO SCALE N



LOCATION MAP
NO SCALE N

GENERAL NOTES

1. DO NOT SCALE DRAWINGS; USE FIGURED DIMENSIONS ONLY. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. FIELD VERIFY: ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH WORK.
3. ENLARGED PLANS: WHERE ENLARGED OR PARTIAL PLANS ARE REFERENCED. DIMENSIONS, SPECIAL DETAILING, OR FINISH REQUIREMENTS ARE NOTED ON THE ENLARGED PLANS AND OMITTED ON THE SMALLER SCALE OR OVERALL PLANS.
4. PARTITION STANDARD: IT IS INTENDED THAT THE FACE OF EVERY CONTINUOUS PARTITION BE FLUSH, WITHOUT OFFSETS, EVEN AT AN INTERMEDIATE CHANGE IN PARTITION THICKNESS. CHANGES IN PARTITION THICKNESS OCCUR ONLY AT INSIDE OR OUTSIDE CORNERS. THE FACES OF CORRIDOR WALLS MUST ALIGN WITHOUT OFFSETS (UNLESS GRAPHICALLY SHOWN OTHERWISE) ALONG THEIR ENTIRE LENGTH.
5. INTERMEDIATE BREAKS OR INTERRUPTIONS. ALL ADJUSTMENTS DUE TO CHANGE IN PARTITION THICKNESS MUST OCCUR ON THE ADJOINING ROOM SIDE OF CORRIDOR PARTITIONS AT THE NEAREST INSIDE OR OUTSIDE CORNER.
6. ALL ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, ETC., LOCATED IN RELATED PARTITIONS SHALL BE BACKED WITH GYPSUM BOARD AS REQUIRED TO RETAIN PARTITION
7. WHEN CONTRADICTIONS OCCUR BETWEEN PLANS AND SPECIFICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
8. WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS.
9. REFER TO ELECTRICAL, MECHANICAL, STRUCTURAL AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
10. ALL NEW WORK SHALL MEET BARRIER FREE REQUIREMENTS (I.E. GRAB BARS, DOOR HARDWARE, CASEWORK HEIGHTS, ETC.)
11. REFERENCE EACH DISCIPLINES SHEETS FOR ADDITIONAL GENERAL NOTES.
12. ALL CONCRETE MASONRY UNIT WALL CORNERS SHALL BE BULL NOSED.
13. SCHOOL HAS FIRST RIGHT OF REFUSAL FOR ANY REMOVED ITEMS.

IDI INTEGRATED DESIGNS INC
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., STE 500
BRIGHTON, MI 48116
PHONE: (810)229-2791
FAX: (810)229-4767

IDI Project No: 21-949

FOR CONSTRUCTION
11-5-25

SHEET INDEX:

COVER

CIVIL
C0.1 CIVIL NOTES
C1.0 SITE PLAN
C2.0 SITE DETAILS

STRUCTURAL
S1.0 SLAB & FOUNDATION PLAN
S2.0 AREA A FRAMING PLAN
S2.1 AREA B FRAMING PLAN
S2.2 AREA C FRAMING PLAN

ARCHITECTURAL
A0.0 LIFE SAFETY AND CODE ANALYSIS
A0.1 INDEX, CLEARANCES & ADA MOUNTING HEIGHTS
A1.0 DEMOLITION PLAN AREA 'A'
A1.1 DEMOLITION PLAN AREA 'B'
A1.2 DEMOLITION PLAN AREA 'B'
A1.3 DEMOLITION PLAN AREA 'D'
A1.4 CONCRETE SLAB DEMOLITION AND PATCHING
A1.5 DEMOLITION WALL SECTIONS
A1.6 DEMOLITION WALL SECTIONS
A2.0 FLOOR PLAN AREA 'A'
A2.1 FLOOR PLAN AREA 'B'
A2.2 FLOOR PLAN AREA 'C'
A2.3 REFLECTED CEILING PLAN AREA 'A'
A2.4 REFLECTED CEILING PLAN AREA 'B'
A2.5 REFLECTED CEILING PLAN AREA 'C'
A2.6 REFLECTED CEILING PLAN AREA 'D'
A2.7 ENLARGED PLANS
A3.0 INTERIOR ELEVATIONS
A3.1 INTERIOR ELEVATIONS
A3.2 INTERIOR ELEVATIONS
A4.0 EXTERIOR ELEVATIONS
A6.0 WALL SECTIONS
A6.1 WALL SECTIONS
A6.2 WALL SECTIONS
A6.3 WALL SECTIONS
A7.0 SCHEDULES AND DETAILS
A7.1 SCHEDULES AND DETAILS
A9.0 DETAILS
SP1.0 SPECIALTY CASEWORK AND EQUIPMENT
SP1.1 SPECIALTY CASEWORK AND EQUIPMENT
SP1.2 SPECIALTY CASEWORK AND EQUIPMENT
SP1.3 SPECIALTY CASEWORK AND EQUIPMENT
SP1.4 SPECIALTY CASEWORK AND EQUIPMENT
SP1.5 SPECIALTY CASEWORK AND EQUIPMENT
SP1.6 SPECIALTY CASEWORK AND EQUIPMENT
SP1.7 SPECIALTY CASEWORK AND EQUIPMENT
SP1.8 SPECIALTY CASEWORK AND EQUIPMENT
SP1.9 SPECIALTY CASEWORK AND EQUIPMENT
SP1.10 SPECIALTY CASEWORK AND EQUIPMENT
SP1.11 SPECIALTY CASEWORK AND EQUIPMENT
SP1.12 SPECIALTY CASEWORK AND EQUIPMENT

MECHANICAL
MP0.0 MECHANICAL & PLUMBING SYMBOLS AND LEGENDS
M1.0 MECHANICAL DEMOLITION PLAN AREA 'A'
M1.1 MECHANICAL DEMOLITION PLAN AREA 'B'
M1.2 MECHANICAL DEMOLITION PLAN AREA 'C' & 'D'
M1.3 MECHANICAL DEMOLITION PLAN ROOF
M2.0 MECHANICAL NEW WORK PLAN AREA 'A'
M2.1 MECHANICAL NEW WORK PLAN AREA 'B'
M2.2 MECHANICAL NEW WORK PLAN AREA 'C'
M2.3 MECHANICAL NEW WORK PLAN AREA 'D'
M2.4 MECHANICAL NEW WORK PLAN ROOF
M3.0 MECHANICAL DETAILS
M3.1 MECHANICAL DETAILS
M3.2 MECHANICAL DETAILS
M4.0 MECHANICAL SCHEDULES
M4.1 MECHANICAL SCHEDULES
M4.2 MECHANICAL SCHEDULES
M5.0 TEMPERATURE CONTROLS
M5.1 TEMPERATURE CONTROLS
M5.2 TEMPERATURE CONTROLS
FP2.0 FIRE PROTECTION PLAN
P1.0 PLUMBING DEMOLITION PLAN AREA 'A' UNDERGROUND
P1.1 PLUMBING DEMOLITION PLAN AREA 'B' UNDERGROUND
P1.2 PLUMBING DEMOLITION PLAN AREA 'C' UNDERGROUND
P1.3 PLUMBING DEMOLITION PLAN AREA 'A' ABOVE GROUND
P1.4 PLUMBING DEMOLITION PLAN AREA 'B' ABOVE GROUND
P1.5 PLUMBING DEMOLITION PLAN AREA 'C' ABOVE GROUND
P2.0 PLUMBING NEW WORK PLAN AREA 'A' UNDERGROUND
P2.1 PLUMBING NEW WORK PLAN AREA 'B' UNDERGROUND
P2.2 PLUMBING NEW WORK PLAN AREA 'C' UNDERGROUND
P2.3 PLUMBING NEW WORK PLAN AREA 'A' ABOVE GROUND
P2.4 PLUMBING NEW WORK PLAN AREA 'B' ABOVE GROUND
P2.5 PLUMBING NEW WORK PLAN AREA 'C' ABOVE GROUND
P2.6 PLUMBING NEW WORK PLAN ROOF
P3.0 PLUMBING DETAILS & SCHEDULES

ELECTRICAL
E1.0 ELECTRICAL DEMOLITION PLAN AREA 'A'
E1.1 ELECTRICAL DEMOLITION PLAN AREA 'B'
E1.2 ELECTRICAL DEMOLITION PLAN AREA 'C'
E1.3 ELECTRICAL DEMOLITION PLAN AREA 'D'
E1.4 ELECTRICAL DEMOLITION PLAN ROOF
E2.0 ELECTRICAL NEW WORK LIGHTING PLAN AREA 'A'
E2.1 ELECTRICAL NEW WORK LIGHTING PLAN AREA 'B'
E2.2 ELECTRICAL NEW WORK LIGHTING PLAN AREA 'C'
E3.0 ELECTRICAL NEW WORK POWER PLAN AREA 'A'
E3.1 ELECTRICAL NEW WORK POWER PLAN AREA 'B'
E3.2 ELECTRICAL NEW WORK POWER PLAN AREA 'C'
E3.3 ELECTRICAL NEW WORK POWER PLAN AREA 'D'
E3.4 ELECTRICAL NEW WORK POWER PLAN AREA 'E'
E3.5 ELECTRICAL NEW WORK POWER PLAN ROOF
E4.0 SCHEDULES
E4.1 RISER DIAGRAM DEMOLITION
E4.2 RISER DIAGRAM NEW WORK

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION, 2012 EDITION AND SUPPLEMENTAL SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED IN THE PLANS OR SPECIFICATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING ALL DIMENSIONS AND SITE CONDITIONS BEFORE PROCEEDING WITH WORK. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ENGINEER BEFORE PROCEEDING.
3. THE CONTRACTOR SHALL BE REQUIRED TO RESTORE ALL EXISTING TURF AREAS WHICH ARE DISTURBED BY CONSTRUCTION ACTIVITIES THROUGHOUT THE PROJECT OR AS SPECIFIED. TURF AREAS SHALL MATCH ADJACENT GRADES IN ADDITION TO GRADES SPECIFIED. TURF RESTORATION CONSISTS OF: SCREENED TOPSOIL SURFACE, 6 INCH; CHEMICAL FERTILIZER NUTRIENT, IF REQUIRED; MDOT SEED MIXTURE TDS; STRAW MULCH BLANKETS AND MULCH ANCHORING. THE CONTRACTOR SHALL BE REQUIRED TO WATER TURF AREAS TO PROMOTE HEALTHY GROWTH UNTIL THE FIRST CUTTING. AT THAT TIME THE OWNER SHALL TAKE ALL RESPONSIBILITY FOR MAINTENANCE.
4. THE CONTRACTOR IS RESPONSIBLE TO RESTORE ANY AND ALL AREAS DISTURBED OR DAMAGED OUTSIDE OF THE OWNERS PROPERTY, AS A RESULT OF THE CONTRACTORS OPERATIONS, AT NO ADDITIONAL COST TO THE PROJECT.
5. THE CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL REGULATIONS AND ORDINANCES FOR WORK AT THE SITE. THIS SHALL INCLUDE ALL M.I.O.S.H.A. REGULATIONS.
6. THE CONTRACTOR SHALL CONTROL NOISE, CARRY OUT A PROGRAM FOR DUST CONTROL AND SHALL ALLOW NO ONSITE BURNING, WITHOUT PRIOR APPROVAL FROM THE OWNER, ENGINEER AND THE LOCAL FIRE DEPARTMENT.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FEES AND OBTAINING ANY REQUIRED PERMITS FOR WORKING WITHIN THE RIGHT-OF-WAY INCLUDING SEWER TAPS, OFF STREET PARKING, SIDEWALK AND/OR ROAD CLOSURES, SIDEWALK AND CURB REPLACEMENT, ETC. THE CONTRACTOR SHALL PROVIDE THE LOCAL MUNICIPALITY WITH ANY ROAD CLOSURE AND DETOUR PLAN, IF REQUIRED, PRIOR TO PROCEEDING WITH WORK. CONTACT LOCAL MUNICIPALITY FOR REQUIREMENTS BEFORE PROCEEDING WITH WORK.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKING AND LAYOUT FOR THIS PROJECT. THE CONTRACTOR SHALL PROTECT OR PLACE NEW BENCHMARKS AND/OR CONTROL POINTS, AS REQUIRED. AN ELECTRONIC COPY OF THE AUTOCAD ".DWG" FILE SHALL BE PROVIDED TO THE CONTRACTOR OR THEIR SURVEYOR.
9. ANY PROPERTY IRONS DAMAGED OR REMOVED BY THE CONTRACTORS OPERATIONS, SHALL BE REPLACED BY A SURVEYOR LICENSED IN THE STATE OF MICHIGAN AT NO COST TO THE PROJECT.
10. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE THEIR WORK WITH THE BUILDING CONTRACTORS OR UTILITY COMPANIES' WORK AT NO ADDITIONAL COST TO THE PROJECT.
11. SITE CLEARING SHALL INCLUDE SURFACE DEBRIS, REMOVING ABOVE AND BELOW GROUND IMPROVEMENTS, ROCKS, DESIGNATED TREES, SHRUBS AND OTHER VEGETATION AND ABANDONED UTILITIES AS NECESSARY TO PERFORM THE WORK IN THE CONTRACT. ALL REMOVAL ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL PROTECT ALL SURVEY CONTROL POINTS, BENCHMARKS AND/OR EXISTING STRUCTURES TO REMAIN FROM DAMAGE OR DISPLACEMENT.
12. TREES IN THE INFLUENCE OF THE PROPOSED NEW WORK SHALL BE REMOVED. TREE REMOVAL SHALL INCLUDE COMPLETE REMOVAL OF THE STUMP AND INCLUDE REMOVAL OF ANY ROOTS WHICH ARE LOCATED WITHIN THE INFLUENCE OF THE SUBBASE EXCAVATION, BUILDING CONSTRUCTION AND UTILITY TRENCH EXCAVATION. WHEN EXCAVATING THROUGH ROOTS, PERFORM WORK BY HAND AND CUT ROOTS WITH A SHARP AXE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISPOSAL OF REMOVED, SURPLUS AND/OR WASTE MATERIAL FROM THE SITE. ALL TRANSPORTATION AND DISPOSAL OF THE REMOVED ITEMS SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATION AND ALL LOCAL, STATE AND FEDERAL LAWS.
14. SAW CUT EXISTING PAVEMENT TO FULL DEPTH PRIOR TO REMOVAL. WHERE SAW CUT IS REQUIRED IN CONCRETE SLABS AND/OR CURB & GUTTER, SAW CUT FULL DEPTH AT THE NEAREST JOINT. IF A SAWCUT EDGE BECOMES DAMAGED PRIOR TO THE INSTALLATION OF NEW WORK, THE EDGE SHALL BE RECUT, AS DIRECTED BY THE ENGINEER, AND THE PAVEMENT REPLACED AT NO ADDITION COST TO THE PROJECT.

TRAFFIC CONTROL AND MAINTENANCE

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD), 2011 EDITION AND ALL CURRENT MDOT STANDARD PLANS, AS REQUIRED. THE CONTRACTOR SHALL SUBMIT A TRAFFIC MAINTENANCE PLAN TO THE ENGINEER FOR APPROVAL, 10 DAYS PRIOR TO BEGINNING WORK.
2. ALL SIGNS, BARRICADES, WARNING LIGHTS AND OTHER TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH THE MMUTCD. SIGNING FOR STREET CLOSURES SHALL BE IN ACCORDANCE WITH THE MMUTCD. ANY SIGNS TEMPORARILY REMOVED DUE TO CONSTRUCTION ACTIVITIES, SHALL BE TEMPORARILY RELOCATED, AS DIRECTED BY THE ENGINEER, UNTIL FINAL RESTORATION IS COMPLETED AND THEN RETURNED TO THEIR ORIGINAL LOCATION.
3. DURING CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PLACE THE PROPER CONSTRUCTION SIGNING IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) AND ALL CURRENT MDOT STANDARD PLANS, AS REQUIRED.
4. THE CONTRACTOR SHALL PROVIDE THE LOCAL MUNICIPALITY WITH ANY ROAD CLOSURE AND DETOUR PLAN, IF REQUIRED, PRIOR TO PROCEEDING WITH WORK. CONTACT LOCAL MUNICIPALITY FOR REQUIREMENTS BEFORE PROCEEDING WITH WORK.

UTILITY NOTES

1. UTILITIES AND UTILITY SERVICE INFORMATION, SHOWN ON THE PLANS, ARE BASED ON UTILITY STAKING AND IS FOR INFORMATION ONLY, AS ACTUAL LOCATIONS MAY VARY. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY LOCATIONS BEFORE PROCEEDING WITH WORK.
2. FOR THE PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174 OF 2013, THE CONTRACTOR IS REQUIRED TO CONTACT "MISS DIG" BY PHONE AT 811 OR 800-482-7171 OR VIA THE WEB AT EITHER ELOCATE.MISSDIG.ORG FOR SINGLE ADDRESS OR RTE.MISSDIG.ORG, A MINIMUM OF 72 HOURS (EXCLUDING SATURDAYS, SUNDAYS AND HOLIDAYS) IN ADVANCE OF ANY EXCAVATION.
3. THE CONTRACTOR WILL BE REQUIRED TO COORDINATE ALL OF THEIR WORK WITH THE UTILITY COMPANIES WORK, IF ANY, AT NO ADDITIONAL COST TO THE PROJECT.
4. COSTS AND FEES CHARGED BY THE UTILITY COMPANIES ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE MADE A PART OF THE CONTRACT.
5. DAMAGE TO EXISTING UTILITIES, OUTSIDE THE SCOPE OF WORK SHOWN ON THE PLANS, IS THE RESPONSIBILITY OF THE CONTRACTOR AND REPAIR, AS SUCH, SHALL BE AT NO ADDITIONAL COST TO THE PROJECT.
6. IN CASES WHERE EXISTING SEWERS, DRAINS, GAS SERVICE CONNECTIONS, TELEPHONE OR ELECTRICAL FACILITIES, WATER SERVICE CONNECTIONS, ETC. ARE ENCOUNTERED, THE CONTRACTOR SHALL PERFORM THEIR WORK IN SUCH A MANNER THAT THE SERVICE WILL BE UNINTERRUPTED. THE CONTRACTORS METHOD FOR MAINTAINING AND SUPPORTING THE EXISTING UTILITIES AND THEIR SERVICE CONNECTIONS, IF REQUIRED, SHALL BE AS SUCH TO AVOID SETTLEMENT OF THE UTILITIES BEFORE AND AFTER PLACING BACKFILL.
7. STORM SEWER MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF COLEMAN STANDARD SPECIFICATION FOR STORM WATER COLLECTION SYSTEMS.
8. SANITARY SEWER MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF COLEMAN STANDARD SPECIFICATION FOR SANITARY SEWER COLLECTION SYSTEMS.
9. SEE ELECTRICAL, MECHANICAL AND PLUMBING PLANS FOR EXACT CONNECTIONS TO PROPOSED BUILDING UTILITIES.
10. UTILITY DISINFECTION AND ALL OTHER TESTING AS REQUIRED BY THE GOVERNING CODE IS THE RESPONSIBILITY OF THE CONTRACTOR.

MISS DIG 811
Know what's below.
Call before you dig.

SURVEY INFORMATION

A TOPOGRAPHICAL SURVEY WAS NOT CONDUCTED FOR THIS PROJECT. ALL EXISTING SITE IMPROVEMENTS SHOWN ARE APPROXIMATE. THE INFORMATION SHOWN ON THE PLANS WAS OBTAINED FROM AERIAL PHOTOGRAPHS AND SITE VISITS. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE BEGINNING WORK.

EROSION CONTROL NOTES

1. A SOIL EROSION AND SEDIMENTATION CONTROL (SESC) PERMIT IS NOT REQUIRED FOR THIS PROJECT. CONTACT THE MIDLAND COUNTY DRAIN COMMISSIONERS OFFICE FOR MORE INFORMATION AND REQUIREMENTS.
2. APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO THE COMMENCEMENT OF EARTH DISTURBING ACTIVITIES AND SHALL REMAIN IN PLACE UNTIL ALL AREAS ARE FULLY RESTORED.
3. ALL SOIL EROSION & SEDIMENT CONTROL (SESC) MEASURES PLACED BY THE CONTRACTOR SHALL BE IN FULL COMPLIANCE WITH PUBLIC ACT 347 OF 1972 AS AMENDED AND THE ADMINISTRATIVE RULES. THE CONTRACTOR SHALL HAVE A DEQ CERTIFIED STORM WATER OPERATOR ASSIGNED TO THIS PROJECT.
4. A TRACKING PAD IS REQUIRED AT ANY CONTRACTOR INGRESS AND/OR EGRESS LOCATION WHERE SEDIMENT MAY BE TRACKED OFF-SITE. THE CONTRACTOR IS REQUIRED TO CLEAN ADJACENT STREETS OF ACCUMULATED SEDIMENT AS A RESULT OF THE CONTRACTORS ACTIVITY, AS DIRECTED BY THE ENGINEER, AT NO ADDITIONAL COST TO THE PROJECT.
5. INSTALL SEDIMENT CONTROL, INLET PROTECTION, FABRIC DROP (SS8) AT EXISTING AND NEWLY CONSTRUCTED CATCH BASINS. AFTER RAIN EVENTS AND AT THE COMPLETION OF THE PROJECT, REMOVE AND CLEAN ALL ACCUMULATED SEDIMENT FROM THE CATCH BASINS.
6. AT THE COMPLETION OF THE PROJECT, ONCE ALL DISTURBED AREAS HAVE BEEN FULLY RESTORED, REMOVE ALL TEMPORARY EROSION CONTROL DEVICES AND ANY ACCUMULATED SEDIMENT.
7. THE CONTRACTOR SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF THE SITE HAS BEEN ESTABLISHED.
8. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS AS SOON AS POSSIBLE.

MICHIGAN UNIFIED KEYING SYSTEM
SOIL EROSION AND SEDIMENTATION CONTROL

KEY	BEST MANAGEMENT PRACTICES	SYMBOL	WHERE USED
	SEDIMENT CONTROLS		
E2	GRUBBING OMITTED		FOR USE ON STEEP SLOPES TO PREVENT RILLING, GULLYING AND REDUCE SHEET FLOW VELOCITY OR WHERE CLEAR VISION CORRIDORS ARE NECESSARY.
E5	DUST CONTROL		FOR USE ON CONSTRUCTION SITES, UNPAVED ROADS, ETC. TO REDUCE DUST AND SEDIMENTATION FROM WIND AND CONSTRUCTION ACTIVITIES.
E6	MULCH		FOR USE ON IN AREAS SUBJECT TO EROSIVE SURFACE FLOWS OR SEVERE WIND OR ON NEWLY SEEDED AREAS.
E7	TEMPORARY SEEDING		STABILIZATION METHOD UTILIZED ON CONSTRUCTION SITES WHERE EARTH CHANGE HAS BEEN INITIATED BUT NOT COMPLETED WITHIN A 2 WEEK PERIOD.
E8	PERMANENT SEEDING		STABILIZATION METHOD UTILIZED ON SITES WHERE EARTH CHANGE HAS BEEN COMPLETED (FINAL GRADING ATTAINED).
E9	MULCH BLANKETS		ON EXPOSED SLOPES, NEWLY SEEDED AREAS, NEW DITCH BOTTOMS OR AREAS SUBJECT TO EROSION.
E10	SODDING		ON AREAS AND SLOPES WHERE IMMEDIATE STABILIZATION IS REQUIRED.
E12	RIPRAP		USE ALONG SHORELINES, WATERWAYS, OR WHERE CONCENTRATED FLOWS OCCUR. SLOWS VELOCITY, REDUCES SEDIMENT LOAD, AND REDUCES EROSION.
	EROSION CONTROLS		
S31	CHECK DAM		USED TO REDUCE SURFACE FLOW VELOCITIES WITHIN CONSTRUCTED AND EXISTING FLOW CORRIDORS.
S51	SILT FENCE		USED ADJACENT TO CRITICAL AREAS, TO PREVENT SEDIMENT LADEN SHEET FLOW FROM ENTERING THESE AREAS.
S53	STABILIZED CONSTRUCTION ENTRANCE		USED AT EVERY POINT WHERE CONSTRUCT TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE.
S55	SEDIMENT BASIN		AT THE OUTLET OF DISTURBED AREAS AND AT THE LOCATION OF A PERMANENT DETENTION BASIN.
S56	SEDIMENT TRAP		IN SMALL DRAINAGE AREAS, ALONG CONSTRUCTION SITE PERIMETERS AND ABOVE CHECK DAMS OR DRAIN INLETS.
S57	VEGETATED BUFFER/ FILTER STRIP		USE ALONG SHORELINES, WATERWAYS, OR OTHER SENSITIVE AREAS. SLOWS VELOCITY, REDUCES SEDIMENT LOAD, AND REDUCES EROSION IN AREAS OF SHEET FLOW.
S58	INLET PROTECTION FABRIC DROP		USE AT STORM WATER INLETS, ESPECIALLY AT CONSTRUCTION SITES.
S61	TURBIDITY CURTAIN		USED DURING CONSTRUCTION ADJACENT TO A WATER RESOURCE, TO CONTAIN SEDIMENT WITHIN THE WORK AREA WHEN OTHER BMP'S CANNOT BE USED.

PROPOSED SITE WORK

1. CONCRETE FOR SIDEWALKS, DUMPSTER PADS, CURB & GUTTER, ETC. SHALL MEET EITHER MDOT GRADE P1 OR S2 SPECIFICATION, UNLESS OTHERWISE SPECIFIED.
2. PLACE ½" EXPANSION JOINT BETWEEN SIDEWALKS AND ANY STRUCTURE. CUT CONTROL JOINTS AT 5' O.C. AND PLACE EXPANSION JOINTS AT 20' O.C. OR AS DIRECTED BY THE ENGINEER.
3. PLACE 1" FIBER JOINT AT 400' MAXIMUM INTERVAL IN CURB AND GUTTER. PLACE ½" EXPANSION JOINT BETWEEN CURB AND GUTTER AND CATCH BASINS. PLACE CONTRACTION JOINTS AT 40' MAXIMUM INTERVALS.
4. ADA RAMPS SHALL COMPLY WITH CURRENT MDOT STANDARD PLAN.
5. AREAS OF UNSTABLE SUBBASE NOT MEETING COMPACTION REQUIREMENTS, SHALL BE UNDERCUT AND BACKFILLED, IN ACCORDANCE WITH MDOT SUBGRADE UNDERCUTTING, TYPE II. THIS WORK SHALL BE MEASURED BY THE CUBIC YARD (CYD) AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR "SUBGRADE UNDERCUTTING".
6. CURB AND GUTTER RADII ARE DIMENSIONED FROM THE FRONT EDGE OF THE GUTTER PAN.

GRADING

1. FINAL GRADING SHALL PROVIDE POSITIVE DRAINAGE ACROSS THE ENTIRE SITE AWAY FROM BUILDINGS.
2. THE CONTRACTOR SHALL GRADE THE SITE ACCORDING TO THE GRADING PLAN. IN THE ABSENCE OF A PLAN, THE CONTRACTOR IS TO GRADE THE SITE SO THAT THE NEW GRADES BLEND GENTLY INTO THE EXISTING GRADES. CONTRACTOR TO SLOPE GRADE AWAY FROM BUILDINGS A MINIMUM OF 2 INCHES IN 10 FEET.
3. MAINTAIN OPTIMUM MOISTURE CONTENT OF MATERIALS WHEN GRADING.

NOTES APPLYING TO STANDARD PLANS & SPECIAL DETAILS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR ON THE PLANS., THEY ARE TO BE CONSTRUCTED ACCORDING TO THE MICHIGAN DEPARTMENT OF TRANSPORTATION (MDOT) STANDARD PLAN LISTED BELOW, UNLESS NOTED OTHERWISE. COPIES OF THESE MDOT STANDARD PLANS CAN BE OBTAINED FROM THE MDOT WEBSITE (WWW.MICHIGAN.GOV/MDOT).

ROAD STANDARD PLANS:
- R-29-I DRIVEWAY OPENINGS & APPROACHES AND CURB AND GUTTER
- R-30-G CONCRETE CURB AND CONCRETE CURB & GUTTER
- R-37-B ISOLATION JOINT DETAILS
- R-74-D BUMPER & PARKING RAILS AND MISC. WOOD POSTS
- R-80-E GRANULAR BLANKET, UNDERDRAINS, OUTLET ENDINGS FOR UNDERDRAINS, AND SEWER BULKHEADS
- R-82-D BEDDING AND FILLING AROUND PIPE CULVERTS
- R-83-C UTILITY TRENCHES
- R-95-F CULVERT SLOPED END SECTION
- R-96-E SOIL EROSION & SEDIMENTATION CONTROL MEASURES
- R-100-H SEEDING AND TREE PLANTING
- R-107-H SUPERELEVATION AND PAVEMENT CROWNS

ROAD SPECIAL DETAILS:
- R-1-G DRAINAGE STRUCTURES
- R-28-J SIDEWALK RAMP AND DETECTABLE WARNING DETAILS

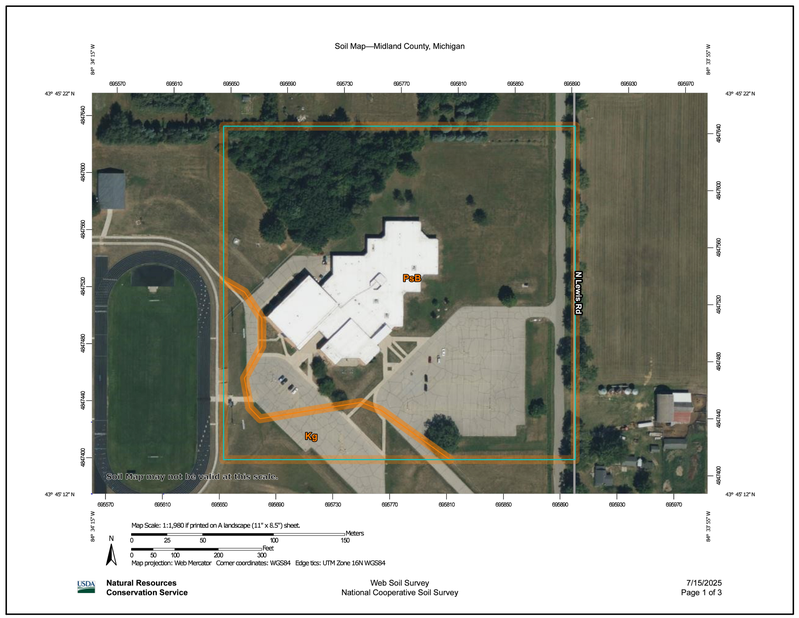
PAVEMENT MARKING STANDARD PLANS:
- PAVE-900-F PAVEMENT ARROW AND MESSAGE DETAILS
- PAVE-905-D LONGITUDINAL LINE TYPES AND PLACEMENT
- PAVE-930-C PAVEMENT MARKINGS FOR NON-SIGNALIZED INTERSECTIONS
- PAVE-935-D LEFT TURN LANE MARKINGS
- PAVE-940-C RIGHT TURN LANE AND ISLAND PAVEMENT MARKINGS
- PAVE-945-C INTERSECTION, STOP BAR, AND CROSSWALK MARKINGS
- PAVE-955-B ON-STREET PARKING ZONE MARKINGS
- PAVE-956-C PARKING AREA PAVEMENT MARKINGS
- PAVE-957-A BACK-IN ANGLE PARKING
- PAVE-960-B SCHOOL MARKINGS
- PAVE-965-D RAILROAD GRADE CROSSING PAVEMENT MARKINGS

TRAFFIC SIGNING STANDARD PLANS:
- SIGN-115-C SIGN LOCATION CODES PLACEMENT
- SIGN-130-B RAILROAD CROSSING SIGN
- SIGN-150-D SIGN SUPPORT SELECTION CHARTS
- SIGN-200-D STEEL POSTS
- SIGN-210-B WOOD POSTS
- SIGN-230-A FOUNDATION (BREAK-AWAY)
- SIGN-740-B MISCELLANEOUS SIGN CONNECTION DETAILS

TRAFFIC SIGNING SPECIAL DETAILS:
- SIGN-100-G STANDARD SIGN INSTALLATIONS
- SIGN-120-E ROADSIDE SIGN LOCATIONS AND SUPPORT SPACING
- SIGN-205-A PERFORATED STEEL SQUARE TUBE SIGN BREAKAWAY SYS
- SIGN-207-D PERFORATED STEEL SQUARE TUBE SIGN BREAKAWAY SYS

SITE DATA

1. PROJECT LOCATION: SECTION 29, TOWNSHIP 16N, RANGE 2W MIDLAND COUNTY, MICHIGAN
2. STREET ADDRESS: COLEMAN JR/SR HIGH SCHOOL 4951 N LEWS ROAD COLEMAN, MI 48618
3. PROPERTY TAX ID#: 160-029-100-080-00



MAP UNIT SYMBOL	MAP UNIT NAME	ACRES IN AOI	PERCENT OF AOI
Kg	KINGSVILLE LOAMY FINE SAND	1.6	11.2%
PsB	PIPESTONE SAND, ERIE-HURON LAKE PLAIN, 0 TO 3 PERCENT SLOPES	12.8	88.8%
TOTALS FOR AREA OF INTEREST		14.4	100.0%

LEGEND

2.00%$_{min}$	GRADE
	EXISTING CONTOUR
	PROPOSED CONTOUR
EXISTING ELEVATION	582.34
PROPOSED ELEVATION	582.63 EB
GND	GROUND
BDG	BUILDING
ADJ	ADJUST ITEM
EB	EDGE OF HMA
EC	EDGE OF CONCRETE
IE	INVERT ELEVATION
BW	BACK OF WALK
FW	FACE OF WALK
TW	TOP OF WALK
EX	EXISTING
PR	PROPOSED
LF	LINEAR FEET
MP	MID POINT
PC	POINT OF CURVATURE
FFE	FINISHED FLOOR ELEVATION
TR	TOP OF ROCK
GRV	GRAVEL
CB	CATCH BASIN
MH	MANHOLE
STM	STORM SEWER
SAN	SANITARY SEWER
REM	REMOVE ITEM
REL	RELOCATE ITEM
FL	FLOW LINE
BC	BACK OF CURB

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480 FAX: (906)228-7324

BRIGHTON OFFICE:
8511 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701 FAX: (810)229-6767

integrated designs inc.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	DESIGN DEVELOP	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	ADM	
DRAWN	ADM	
CHECKED	BLK	
APPROVED	ADM	

CIVIL NOTES

COPYRIGHT © 2001 INTEGRATED DESIGNS INC.

C0.1



SITE PLAN
SCALE: 1 INCH = 30 FEET

N

GRAPHIC SCALE: 1 inch = 30 feet
0 15 30 60 90

KEYNOTES

– SEE CURRENT MDOT SPECIFICATIONS FOR MATERIALS AND INSTALLATION REQUIREMENTS UNLESS OTHERWISE SPECIFIED –

1. REMOVE EXISTING TOPSOIL AND UNDERLYING MATERIAL AS REQUIRED FOR NEW WORK.
2. A TRACKING PAD IS REQUIRED AT ALL CONTRACTOR INGRESS/EGRESS LOCATIONS WHERE SEDIMENT MAY BE TRACKED OFF SITE. LOCATIONS SHOWN ARE FOR INFORMATION ONLY AND MAY VARY WITH CONTRACTOR'S OPERATIONS. SEE DETAIL SHEET.
3. CONSTRUCT 4–INCH–THICK REINFORCED CONCRETE ON SUB–BASE, 6 INCH CIP MDOT CLASS II. REINFORCEMENT SHALL BE WWF, 6X6, W1.4XW1.4. EDGE OF PROPOSED SIDEWALK SHALL BE FLUSH WITH THE SURROUNDING GRADE. ADD FILL MATERIAL AND SLOPE TO EXISTING GRADE AT A 6:1 MAX SLOPE. SEE DETAIL SHEET.
4. CONSTRUCT TEMPORARY ACCESS ROAD, AS REQUIRED, TO GAIN ACCESS TO THE WORK AREA. ACCESS ROAD SHALL CONSIST OF 6 INCHES OF 21AA AGGREGATE. AT THE COMPLETION OF THE PROJECT, REMOVE ACCESS ROAD AND RE–GRADE THE AREA, AS REQUIRED, TO ELIMINATE RUTS AND ENSURE POSITIVE DRAINAGE.
5. RESTORE DISTURBED AREA PER TURF RESTORATION DETAIL. SEE DETAIL SHEET.
6. CONSTRUCT SUPPORTED SLAB FOR PROPOSED DOOR. SEE STRUCTURAL AND ARCHITECTURAL PLANS.
7. DO NOT DISTURB EXISTING TREE.
8. DO NOT DISTURB EXISTING LANDSCAPING.
9. APPROXIMATE LOCATION OF EXISTING 6 INCH SANITARY SEWER SHOWN FOR INFORMATION ONLY. SANITARY SEWER LOCATION WAS OBTAINED FROM AS–BUILT PLANS AS IS APPROXIMATE, ACTUAL LOCATION OF SEWER MAY VARY. CONTRACTOR SHALL FIELD VERIFY AND LOCATE SANITARY SEWER BEFORE BEGINNING WORK.
10. CONNECT PROPOSED 4 INCH SANITARY SEWER TO EXISTING 6 INCH SANITARY SEWER WITH A SADDLE TAP. INSTALL A CLEANOUT AT THE TAP LOCATION. INSTALLATION OF THE SANITARY SEWER SHALL INCLUDE CUTTING AND PATCHING OF THE SURROUNDING PAVEMENT, AS REQUIRED, TO COMPLETE THE SEWER INSTALLATION. SAWCUT EXISTING PAVEMENT TO FULL DEPTH PRIOR TO REMOVAL. IF A SAWCUT EDGE BECOMES DAMAGED PRIOR TO THE INSTALLATION OF NEW MATERIAL, THE EDGE SHALL BE RE–CUT AS DIRECTED BY THE OWNER AND THE PAVEMENTS REPLACED AT NO ADDITIONAL COST TO THE PROJECT. PAVEMENT REMOVED TO COMPLETE INSTALLATION OF THE SEWER SHALL BE REPLACED, MATCHING THE ADJACENT SURFACING MATERIAL TYPE AND SURFACING DEPTH. COORDINATE WITH THE PLUMBING CONTRACTOR. SEE DETAIL SHEET AND PLUMBING PLANS.

ALL KEYNOTES ARE SPECIFIC TO THAT SHEET ONLY

LEGEND

PROPOSED CONCRETE

PROPOSED TEMPORARY ACCESS ROAD

MISS DIG 811.
Know what's below.
Call before you dig.

integrated designs inc.
D ARCHITECTURE ENGINEERING CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480 FAX: (906)228-7324

BRIGHTON OFFICE:
8511 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701 FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

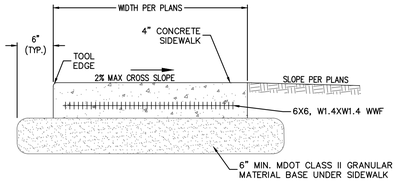
NO.	REVISIONS	DATE
A	DESIGN DEVELOP	07.24.25
0	FOR CONSTRUCTION	11.05.25
—		
—		
—		

	BY	DATE
DESIGN	ADM	
DRAWN	ADM	
CHECKED	BLK	
APPROVED	ADM	

SITE PLAN

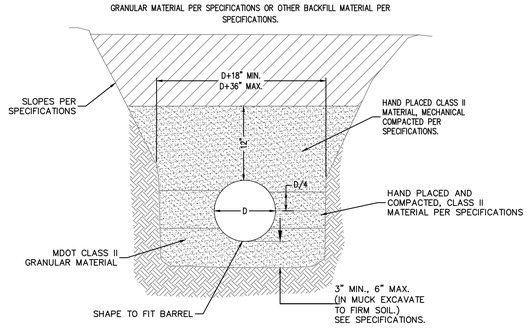
COPYRIGHT © 2001 INTEGRATED DESIGNS INC.

C1.0



CONCRETE SIDEWALK

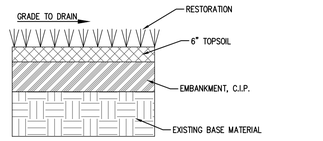
NOT TO SCALE



THE BACKFILL MATERIALS AND METHODS SHALL CONFORM WITH THE SPECIFICATIONS.

UTILITY TRENCH

NOT TO SCALE

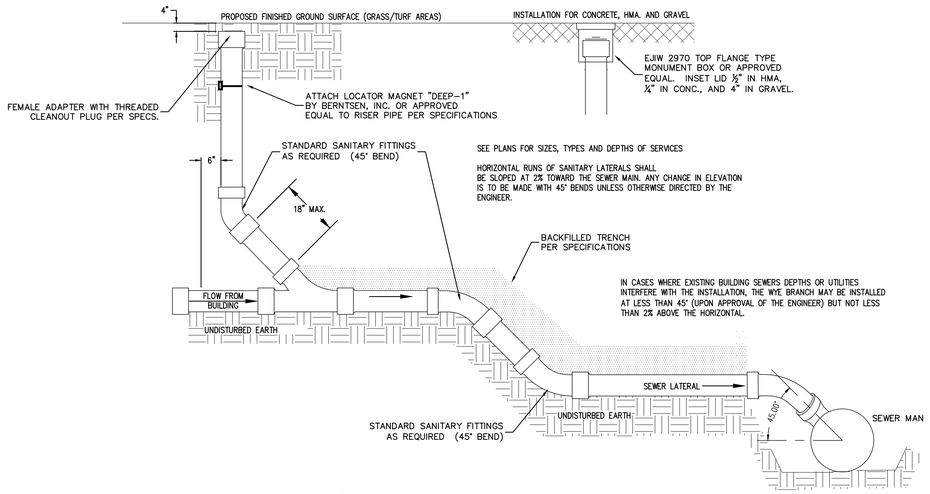


NOTE: ON SLOPES EXCEEDING 1%, STABILIZATION SHALL BE ACCOMPLISHED WITH SEED AND STRAW MULCH WITH A TACKIFIER OR STRAW BLANKETS PEGGED IN PLACE.

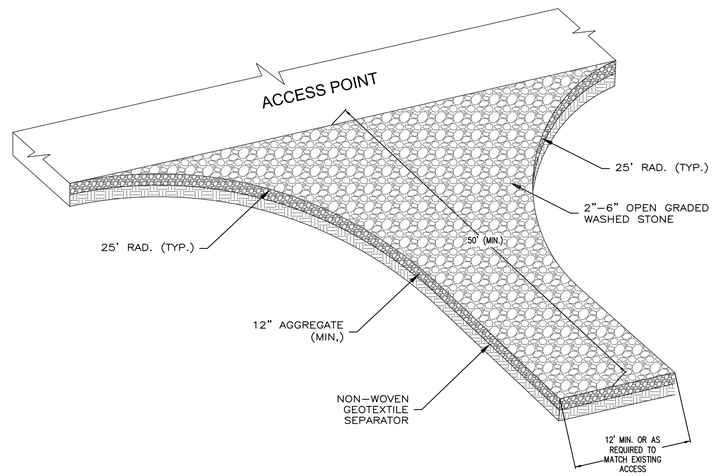
SEEDING RATE = 210 LBS PER ACRE MINIMUM
FERTILIZER RATE = 150 LBS PER ACRE MINIMUM
MULCHING RATE = MINIMUM 3" DEPTH (1.5 – 2.0 TONS PER ACRE)

TURF RESTORATION DETAIL

NOT TO SCALE



SANITARY SEWER LATERAL RISER DETAIL



STABILIZED CONSTRUCTION ENTRANCE DETAIL

NOT TO SCALE

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480 FAX: (906)228-7324

BRIGHTON OFFICE:
8511 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701 FAX: (810)229-4767

D ARCHITECTURE ENGINEERING CONSULTING
integrated designs inc.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN

PROJECT NO. 21-949

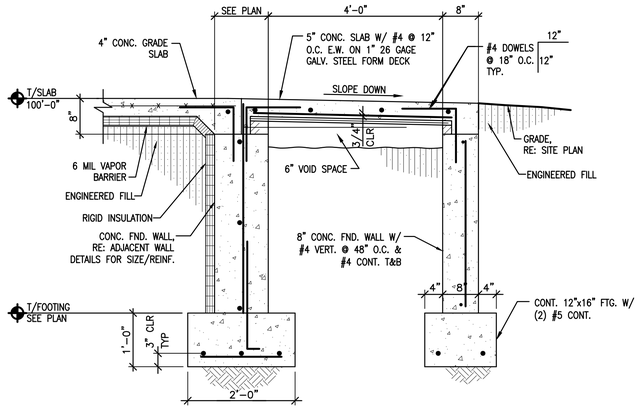
NO.	REVISIONS	DATE
A	DESIGN DEVELOP	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	ADM	
DRAWN	ADM	
CHECKED	BLK	
APPROVED	ADM	

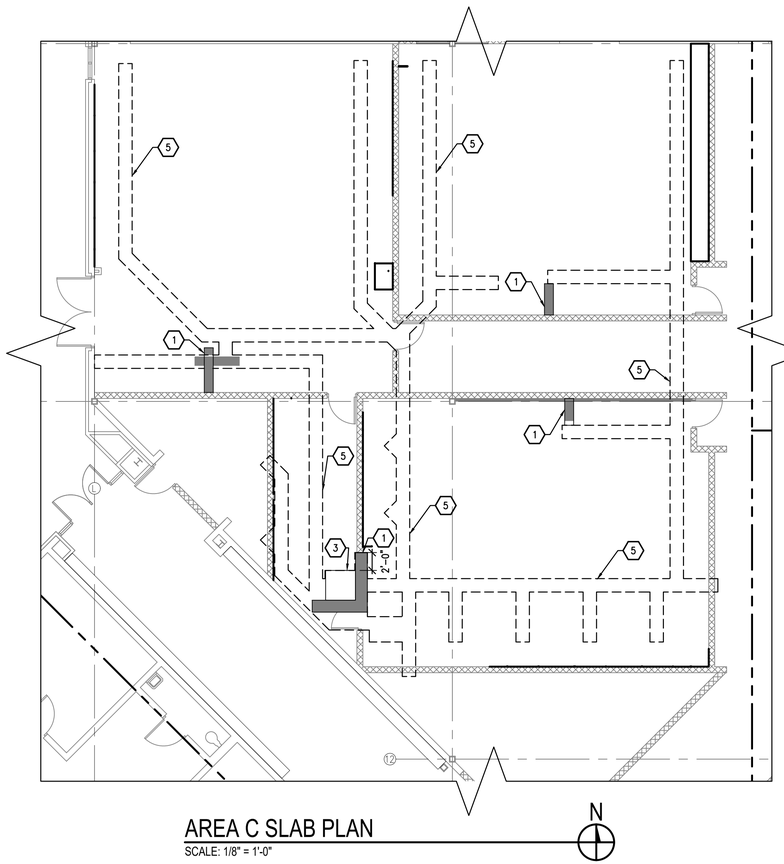
SITE DETAILS

COPYRIGHT © 2001 INTEGRATED DESIGNS INC.

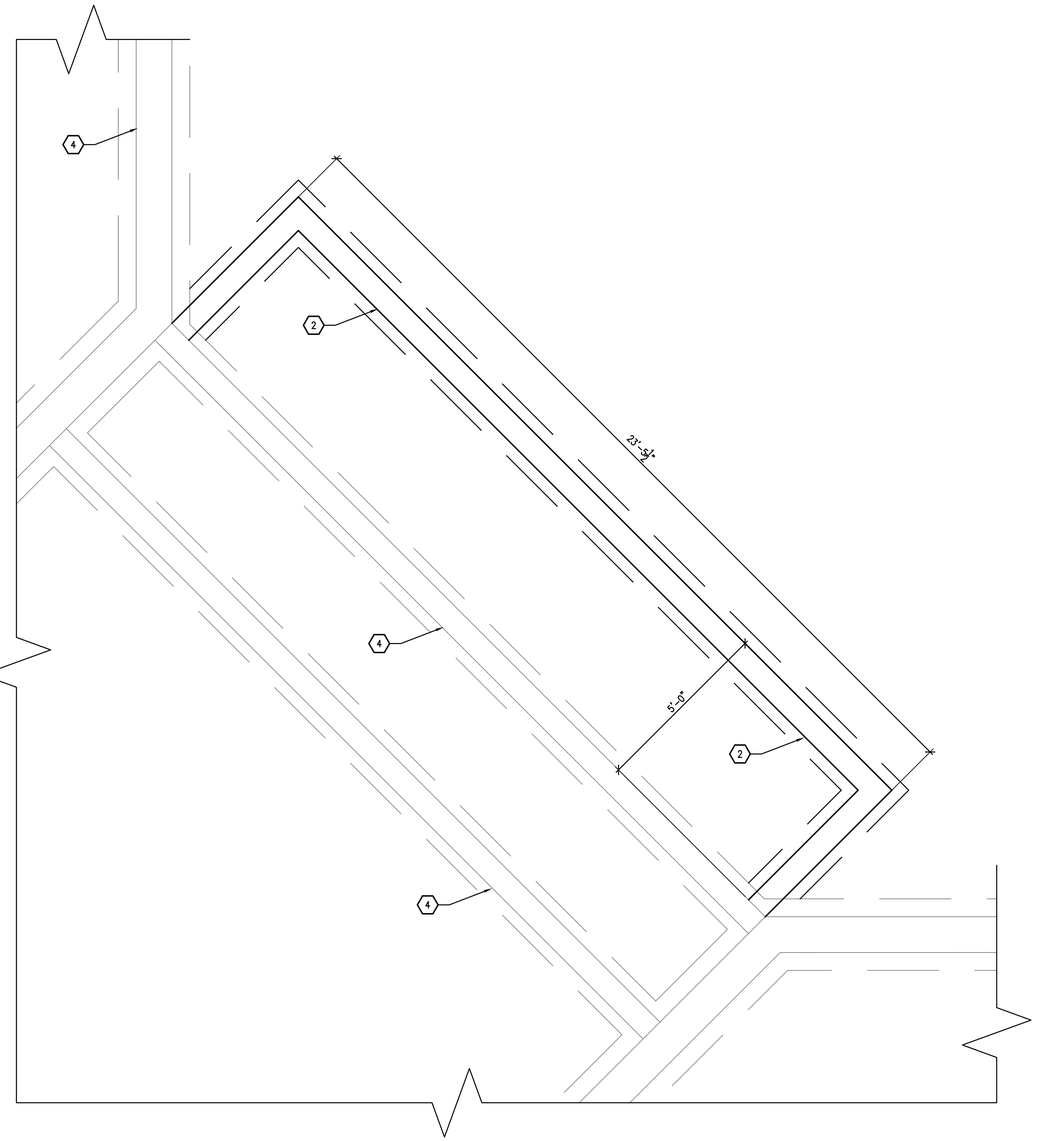
C2.0



FROST STOOP
SCALE: 3/4" = 1'-0"



AREA C SLAB PLAN
SCALE: 1/8" = 1'-0"



AREA A FOUNDATION PLAN
SCALE: 1/2" = 1'-0"

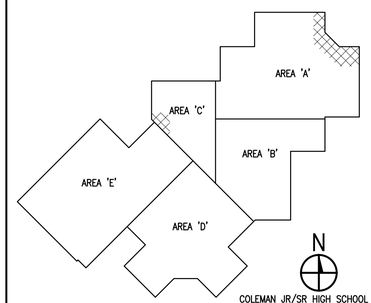
⬡ KEYNOTES ⬡

1. THICKENED SLAB AROUND ACID WASTE TANK AND PIPE TRENCH. SEE DETAILS ON MECH. DWGS.
2. FROST STOOP FOOTING, SEE DTL.
3. ACID WASTE TANK LOCATION. COORD. W/ SUPPLIER FOR INSTALLATION.
4. EXIST. FOUNDATION SYSTEM.
5. 4" CONC. SLAB INFILL W/ #4x12" DOWELS AT 30" O.C. INTO EXIST. GREASE END IN NEW POUR. COORD. W/ PLUMBING & ARCH. DWGS.

CONCRETE NOTES

1. ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 WITH MINIMUM LAPS OF 8".
2. PROVIDE CORNER BARS TO MATCH ALL HORIZONTAL REINFORCING IN WALLS AND FOOTINGS. ALL LAPS SHALL BE A MINIMUM OF 30 BAR DIAMETERS, U.N.O.
3. PROVIDE DOWELS BETWEEN ALL FOOTINGS, WALLS, AND PIERS TO MATCH SIZE AND SPACING OF VERTICAL REINFORCING. ALL LAPS SHALL BE A MINIMUM OF 30 BAR DIAMETERS, U.N.O.
4. ALL "CAST_IN" ANCHOR RODS FOR STRUCTURAL STEEL COLUMNS SHALL BE ASTM A307.
5. ALL FOUNDATION ANCHORS FOR WOOD CONSTRCUTION SHALL BE ASTM A307 STEEL, U.N.O. GALVANIZE TO G60 COATING PER ASTM A153 FOR EXTERIOR AND HIGH HUMIDITY LOCATIONS; GALVANIZE TO G185 COATING PER ASTM A153 FOR ITEMS IN CONTACT WITH PRESERVATIVE TREATED WOOD; PLAIN FINISH FOR ALL OTHER LOCATIONS.
6. ALL CONCRETE SHALL ATTAIN THE FOLLOWING 28 DAY COMPRESSIVE STRENGTHS:
   A. FOOTINGS, WALLS, PIERS.....3000 PSI
   B. SLABS ON GRADE OR METAL DECK.....4000 PSI
7. PROVIDE AIR ENTRAINING FOR ALL CONCRETE EXCEPT INTERIOR SLABS AND INTERIOR FOOTINGS.
8. CONCRETE SHALL CONFORM TO THE FOLLOWING:
   A. ACI 301: SPECIFICATIONS FOR STRUCTURAL CONCRETE
   B. ACI 305: HOT WEATHER CONCRETING
   C. ACI 306: COLD WEATHER CONCRETING
9. NO FILL SHALL BE PLACED AGAINST CONCRETE WALLS UNTIL CONCRETE HAS REACHED 75% OF DESIGN STRENGTH OR UNTIL DIRECTED BY THE ARCHITECT.
10. DRILLED IN CONCRETE ANCHORS(DCA'S) SHALL BE AS FOLLOWS:
    A. HILTI HEAVY DUTY "KWIK BOLTS"
    B. RAMSET/REDHEAD "DYNABOLT SLEEVE"
    C. POWERS/RAWL "POWERBOLT"
    D. SIMPSON STRONG-TIE "WEDGE-ALL"
    E. APPROVED EQUAL
    PROVIDE STAINLESS STEEL OR GALVANIZED TO G185 COATING PER ASTM A153 FOR DCA'S IN CONTACT WITH PRESERVATIVE TREATED WOOD.
11. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4".
12. ELECTRICAL CONDUITS, PIPES, DRAINS, ETC. SHALL BE IN PLACE BEFORE CONCRETE IS PLACED.
13. FIBER REINFORCING FOR SLABS ON GRADE SHALL BE SYNTHETIC POLYPROPYLENE FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE SLABS, COMPLYING WITH ASTM C 1116, TYPE III, ½ TO 1-1/2 INCHES LONG.
14. REBAR SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. ALL SHOP DRAWINGS SHALL BE PREPARED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACI DETAILING MANUAL.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)225-1264

BRIGHTON OFFICE:
8125 MAIN STREET, SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-8787

ARCHITECTURE ENGINEERING CONSULTING

INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-05-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

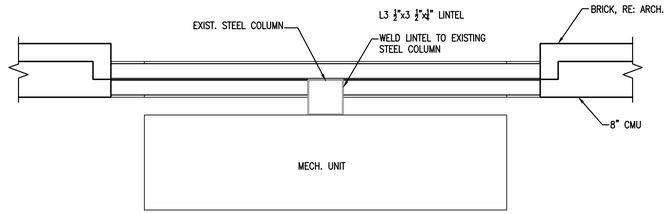
SLAB & FOUNDATION PLAN

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

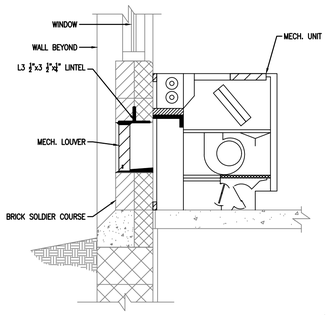
S1.0

LINTEL SCHEDULE

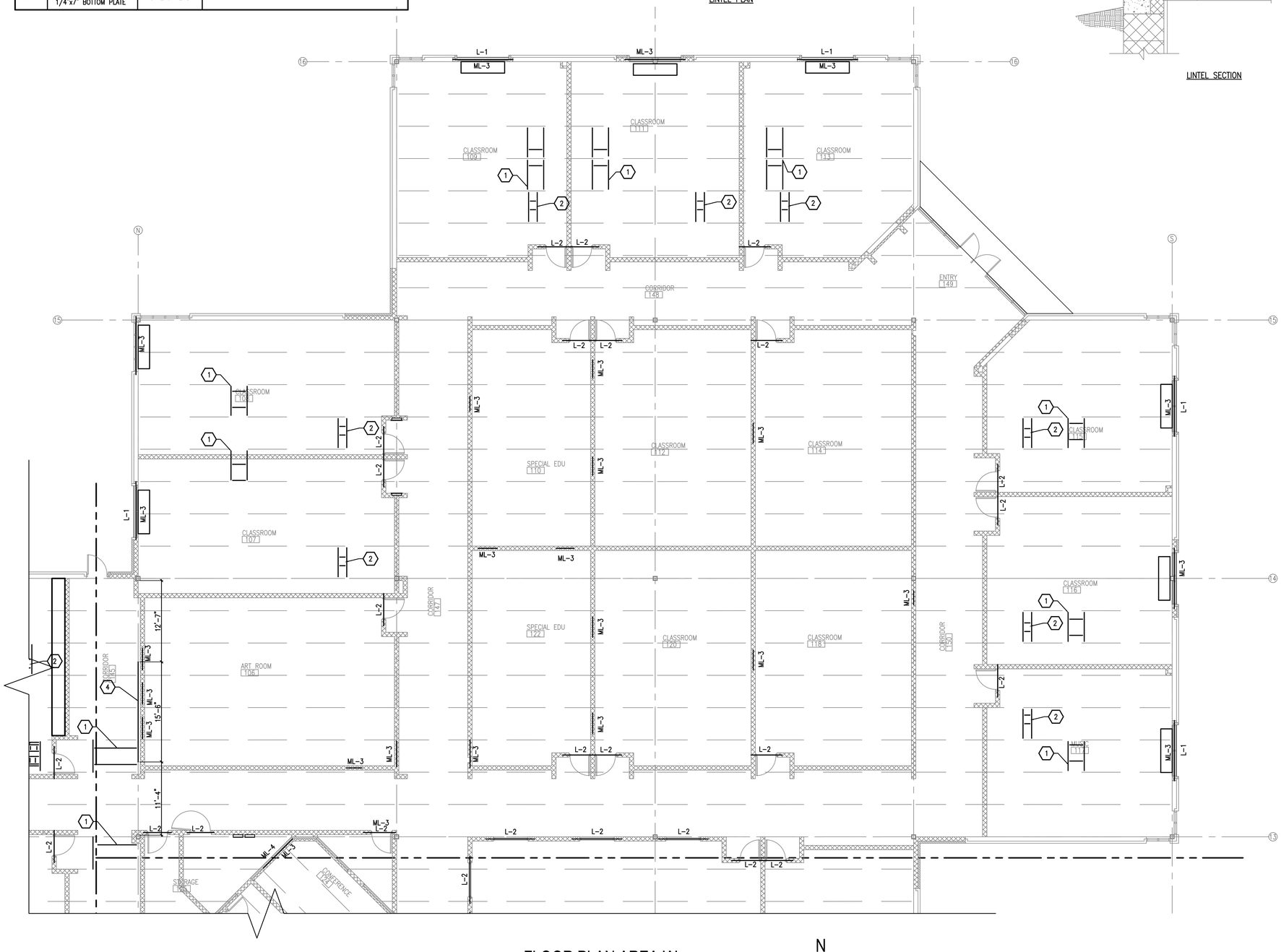
MARK	SECTION	BEARING	REMARKS
L-1	W8x10 + 1/4"x11" BOTTOM PLATE	8" EACH END	--
L-2	8" MASONRY LINTEL W/ (2) #5 CONT.	12" EACH END	--
L-3 ML-3	L3 1/2"x3 1/2"x1/4"	8" EACH END	L3 3½"x3 3½"x¼" BRICK LEDGER AS REQ'D. SEE DETAIL. COORD. W/ MECH. CONTRACTOR. PROVIDE AT WALL MECH. WALL PENETRATIONS BIGGER THAN 16" IF NOT SHOWN.
ML-4	L4 1/2"x3 1/2"x5/16"(LLV)	8" EACH END	PENTHOUSE DUCT PENETRATION ABOVE ROOF. 52x24 DUCT, COORD. W/ MECH. DWGS. & CONTRACTOR
L-5	W8x10 + 1/4"x7" BOTTOM PLATE	8" EACH END	--



LINTEL PLAN



LINTEL SECTION



FLOOR PLAN AREA 'A'
SCALE: 1/8" = 1'-0"

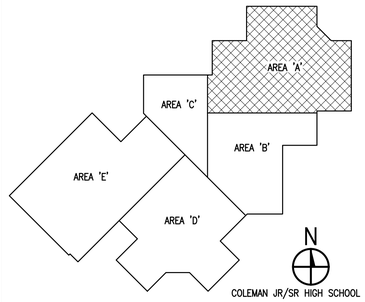
KEYNOTES

1. L4x4x¼" ANGLE FRAME AT MECH. RTU, COORD. SIZE AND LOCATION W/ MECH. CONTRACTOR & MECH. DWGS. SEE TYPICAL JOIST REINFORCING DETAIL.
2. ANGLE FRAME AND MECH. ROOF TOP PENENTRATION PER "STEEL NOTES" #11. SEE TYPICAL JOIST REINFORCING DETAIL.
3. EXIST. ROOF FRAMING.
4. REINFORCE EXISTING W24x76 W/ W4x13 WELDED TO BOTTOM FLANGE OF BEAM. SEE PLAN FOR EXTENTS.

STEEL NOTES

1. EXISTING STRUCTURAL INFORMATION, LOCATIONS AND ELEVATIONS ARE BASED ON RECORD DRAWINGS AND/OR FIELD OBSERVATIONS. THE CONTRACTOR SHALL FIELD VERIFY THIS INFORMATION PRIOR TO BEGINNING CONSTRUCTION.
2. STEEL MEMBER DESIGN IS BASED UPON THE ALLOWABLE STRENGTH(LOAD & RESISTANCE FACTOR) DESIGN METHOD OF THE 13TH EDITION OF THE AISC MANUAL OF STEEL CONSTRUCTION.
3. STRUCTURAL STEEL WIDE FLANGE('W') SHAPES-ASTM A992(50 KSI STEEL)
   ALL OTHER STRUCTURAL STEEL PLATES & RODS_ASTM A36
   STEEL PIPE WITH WALL THICKNESS GREATER THAN 5/8"_ASTM A53, GRADE B
   ALL OTHER ROUND, SQUARE & RECTANGULAR HOLLOW STRUCTURAL SECTIONS_ASTM A500 GRADE B
4. BEAM CONNECTIONS SHALL BE DESIGNED TO SUPPORT HALF THE MAXIMUM TOTAL UNIFORM LOAD, FOR THE SPAN OF THE BEAM SHOWN ON THE PLANS. MAXIMUM TOTAL UNIFORM LOADS ARE PROVIDED IN TABLE 3-6 OF THE AISC MANUAL OF STEEL CONSTRUCTION, THIRTEENTH EDITION.
5. ALL STEEL TO STEEL CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM A325_N HEAVY HEX HEAD, TYPE 1, HIGH STRENGTH BOLTS OR E70XX ELECTRODES, U.N.O. ALL WELDING SHALL BE IN ACCORDANCE WITH LATEST AWS SPECIFICATIONS. MINIMUM WELD SIZE SHALL BE 3/16", U.N.O.
6. ALL BOLTS SHALL BE TIGHTENED TO "SNUG TIGHT"(PER 8.1 OF AISC SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS), U.N.O. BOLTS DESIGNATED ON THE PLANS TO BE "FULLY TENSIONED" SHALL BE TIGHTENED TO THE REQUIRED LOAD BY THE "TURN OF THE NUT" METHOD.
7. ALL FIELD CONNECTIONS SHALL BE BOLTED, U.N.O.
8. MEMBER CONNECTIONS SHALL BE DETAILED FOR A MINIMUM FORCE OF NO LESS THAN 10 KIPS.
9. ALL JOISTS AND JOIST GIRDERS SHALL CONFORM TO SJI STANDARDS. EXTEND BOTTOM CHORDS TO CONNECT AT ALL COLUMNS. PROVIDE BRIDGING PER SJI STANDARDS. JOIST CAMBER FOR FLOOR JOISTS SHALL BE PER SJI SPECIFICATIONS. ROOF JOISTS SHALL BE CAMBERED NO MORE THAN REQUIRED TO OFFSET DEFELECTION DUE TO THE JOIST'S OWN WEIGHT.
10. METAL ROOF DECK SHALL BE ASTM A611, GRADES C, D OR E, AS APPLICABLE, FOR UNCOATED OR PAINTED DECK. FOR GALVANIZED ROOF DECK, CONFORM TO ASTM A653 STRUCTURAL QUALITY GRADE 33 OR HIGHER; WITH G60 GALVANIZED COATING CONFORMING TO ASTM A525. ALL ROOF DECK SHALL CONFORM TO SDI STANDARDS, AND BE PAINTED, EXCEPT WHERE SPRAYED ON FIREPROOFING IS TO BE APPLIED, WHERE DECK SHALL BE UNCOATED.
11. OPENINGS THROUGH ROOF DECK MAY OR MAY NOT BE SHOWN ON FRAMING PLANS. GENERAL CONTRACTOR SHALL COORDINATE WITH ALL TRADES AND PROVIDE FOR OPENINGS AND FRAMES/REINFORCING AS FOLLOWS:
    A. OPENINGS UP TO 18"x18"-PROVIDE L2x2x3/16 ANGLES PERPENDICULAR TO DECK FLUTES, ON BOTH SIDES OF OPENING. EXTEND ANGLES A MINIMUM OF 2 FLUTES BEYOND EDGE OF OPENING. FASTEN ANGLES TO EACH FLUTE WITH #10 TEK SCREWS.
    B. OPENINGS LARGER THAN 18"x18"-PROVIDE A WELDED L4x4x1/4 FRAME SUPPORTED BY STEEL JOISTS OR BEAMS AS SHOWN IN "TYPICAL JOIST REINFORCING DETAIL" (SEE SHEET S4.0). REINFORCE STEEL JOISTS PER THE SAME DETAIL.
12. PROVIDE CONTINUOUS 12 GAUGE, 12"(MINIMUM) WIDE COVER PLATE WHERE ROOF DECK CHANGES DIRECTION. FASTEN TO DECK ON BOTH SIDES OF JOINT WITH #10 TEK SCREWS AT 12" O.C.
13. METAL FORM DECK SHALL BE ASTM A653 STRUCTURAL QUALITY GRADE 33 OR HIGHER; WITH G60 GALVANIZED COATING CONFORMING TO ASTM A525 OR PAINTED FINISH, AS INDICATED ON PLANS.
14. UNLESS NOTED OTHERWISE, METAL DECK SHALL BE FASTENED TO SUPPORT MEMBERS AT 18" O.C. PROVIDE TWO SIDELAP FASTENERS EVENLY SPACED BETWEEN SUPPORT MEMBERS. SUPPORT MEMBER FASTENERS SHALL BE #12 TEK SCREWS. SIDELAP FASTENERS SHALL BE #10 TEK SCREWS. METAL DECK SHALL NOT BE WELDED.
15. STEEL PAINTING_PROVIDE RED OXIDE SHOP COAT.
16. LOADS INDICATED ON PLANS ARE FULLY ADJUSTED CONNECTION DESIGN LOADS DO NOT INCREASE ALLOWABLE STRESSES FOR WIND, ETC.
17. SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATION. FABRICATOR SHALL PRODUCE ERECTION DRAWINGS WITHOUT PHOTOCOPYING OR OTHERWISE REPRODUCING THE ARCHITECT'S DESIGN PLANS.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)225-1324

BRIGHTON OFFICE:
7205 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-8167

ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

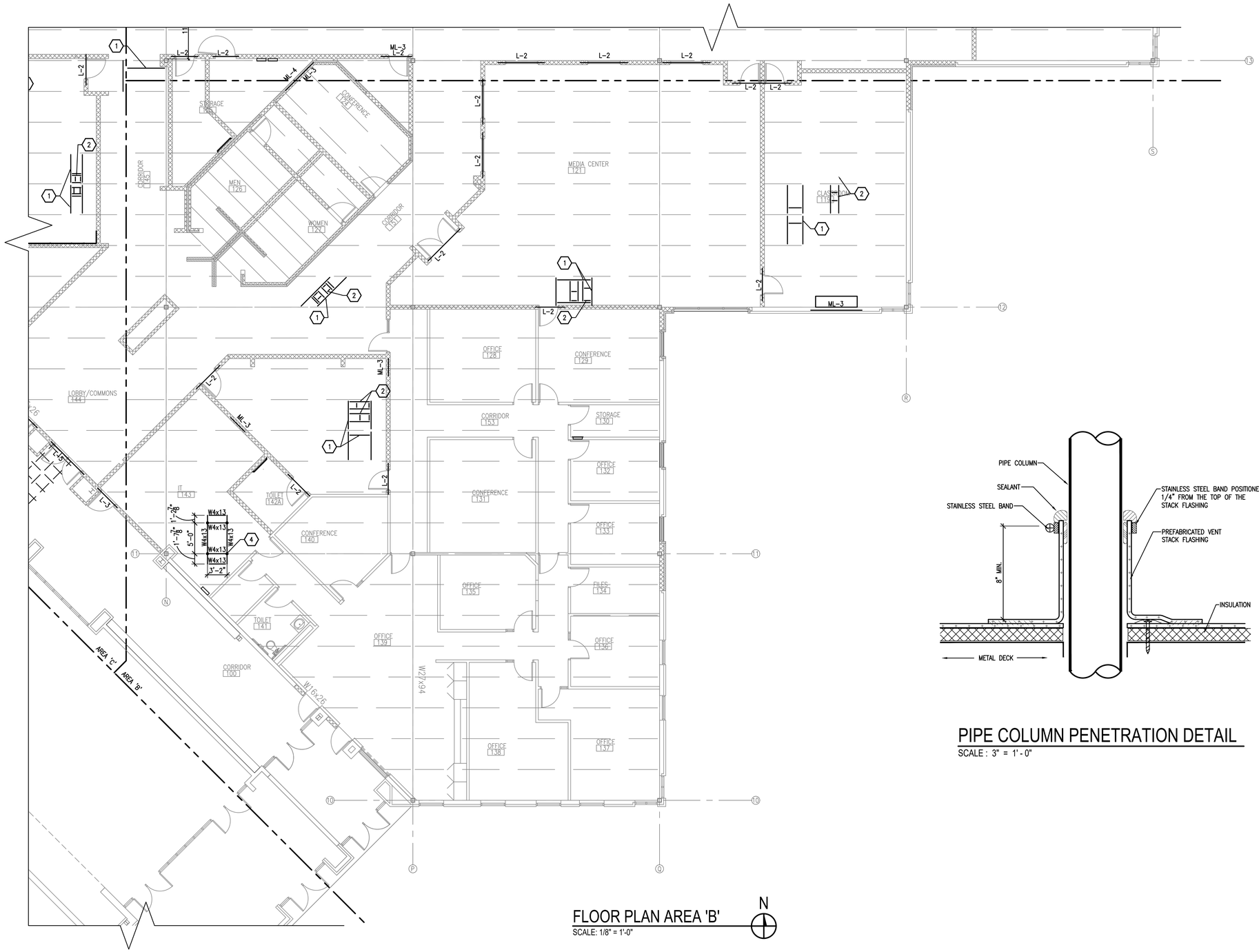
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-05-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

AREA 'A' FRAMING PLAN

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

S2.0



FLOOR PLAN AREA 'B'

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

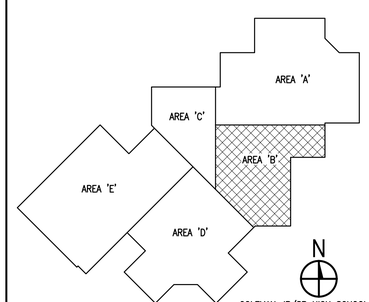
◇ KEYNOTES ◇

1. L4x4x¼" ANGLE FRAME AT MECH. RTU, COORD. SIZE AND LOCATION W/ MECH. CONTRACTOR & MECH. DWGS. SEE TYPICAL JOIST REINFORCING DETAIL.
2. ANGLE FRAME AND MECH. ROOF TOP PENENTRATION PER "STEEL NOTES" #11. SEE TYPICAL JOIST REINFORCING DETAIL.
3. EXIST. ROOF FRAMING.
4. HSS4x4x¼" PIPE COLUMN WELDED TO THE TOP OF THE EXISTING ROOF JOIST. T/COL. TO BE 2'-0" ABOVE ROOF. COORDINATE LOCATION W/ ELEC. DWGS & ELEC. CONTRACTOR.

PIPE COLUMN PENETRATION DETAIL

SCALE : 3" = 1' - 0"

KEY PLAN



ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)225-1324

BRIGHTON OFFICE:
8101 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-8167

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

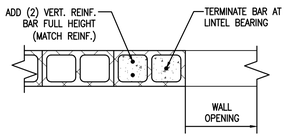
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-05-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

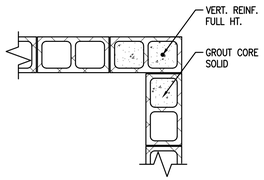
AREA 'B' FRAMING PLAN

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

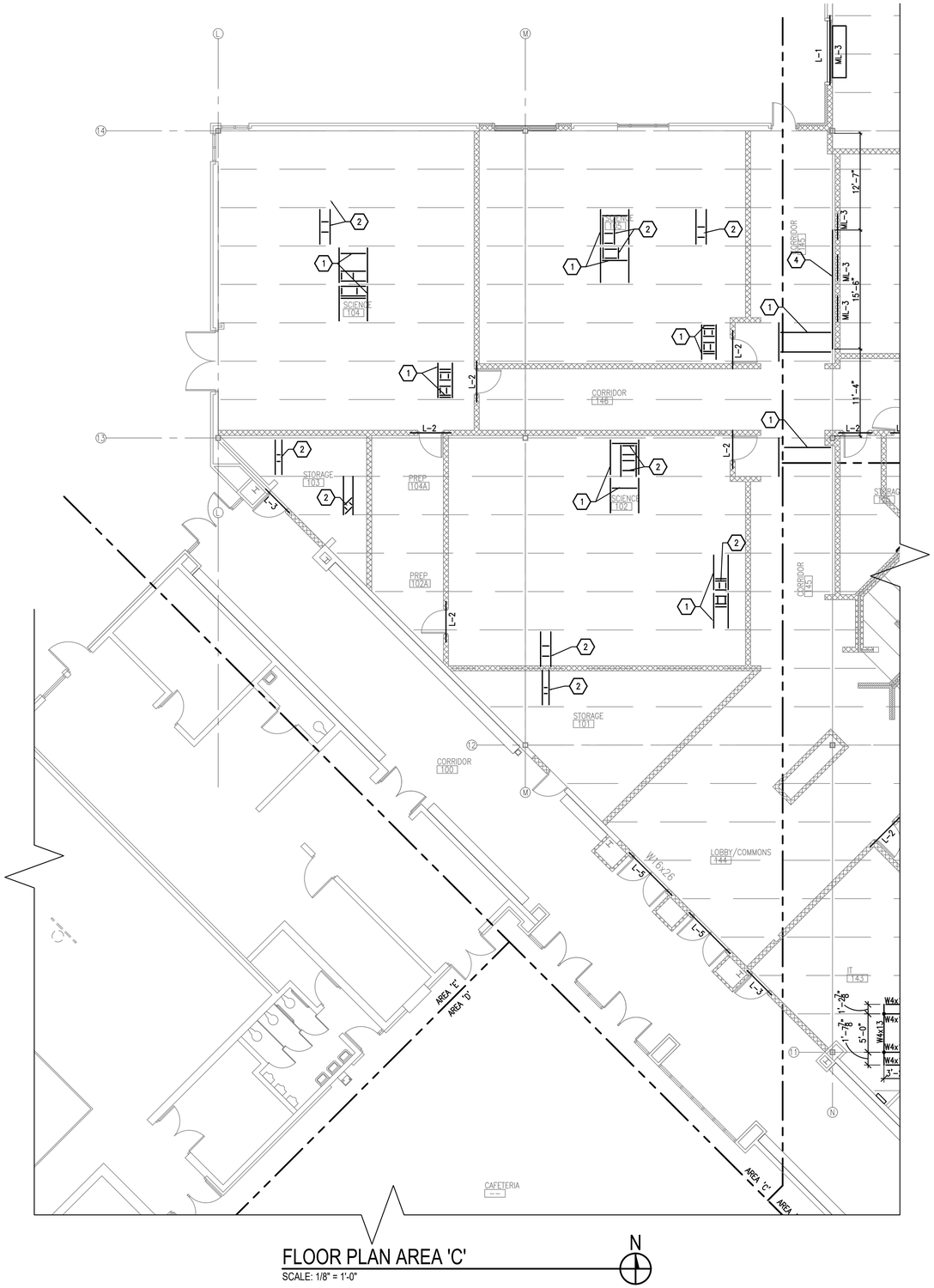
S2.1



TYPICAL WALL REINFORCING AT OPENING
SCALE: 3/4" = 1'-0"



TYPICAL MASONRY WALL REINFORCING AT CORNERS
SCALE: 3/4" = 1'-0"

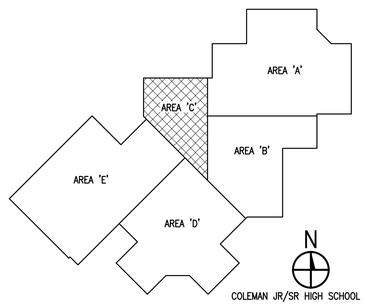


FLOOR PLAN AREA 'C'
SCALE: 1/8" = 1'-0"

KEYNOTES

1. L4x4x¼" ANGLE FRAME AT MECH. RTU, COORD. SIZE AND LOCATION W/ MECH. CONTRACTOR & MECH. DWGS. SEE TYPICAL JOIST REINFORCING DETAIL.
2. ANGLE FRAME AND MECH. ROOF TOP PENENTRATION PER "STEEL NOTES" #11. SEE TYPICAL JOIST REINFORCING DETAIL.
3. EXIST. ROOF FRAMING.
4. REINFORCE EXIST. BEAM W/ W4x13 WELDED TO THE BOTTOM FLANGE OF W24x76.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-05-25

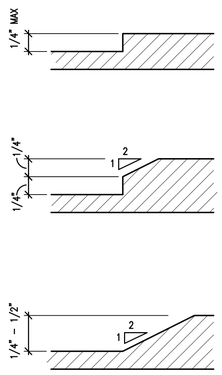
	BY	DATE
DESIGN	--	--
DRAWN	--	--
CHECKED	--	--
APPROVED	--	--

AREA 'C' FRAMING PLAN

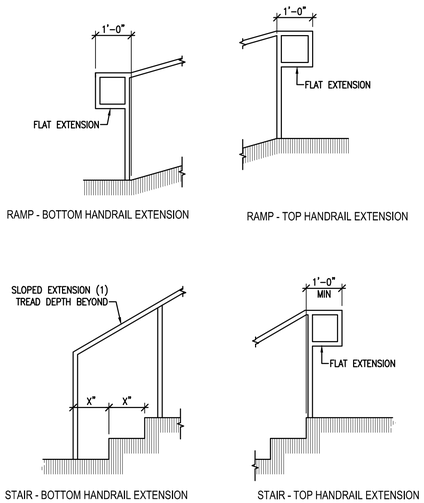
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

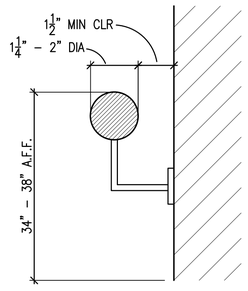
S2.2

FLOOR TRANSITIONS

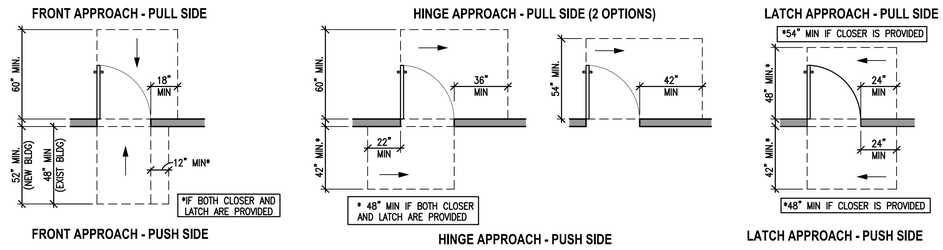


ACCESSIBLE HANDRAILS

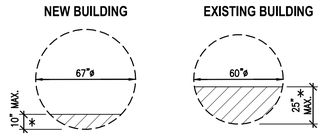




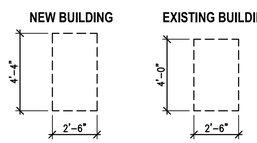
ACCESSIBLE MANUEVERING CLEARANCES



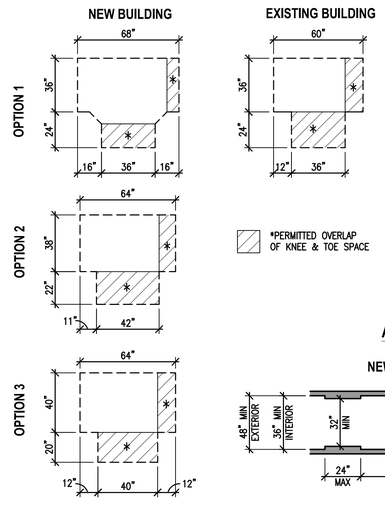
CIRCULAR TURNING SPACE



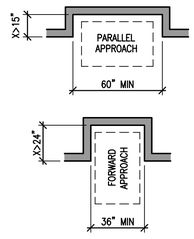
WHEELCHAIR CLEAR FLOOR SPACE



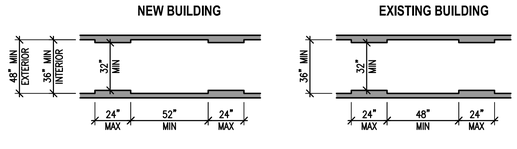
T-SHAPED TURNING SPACE



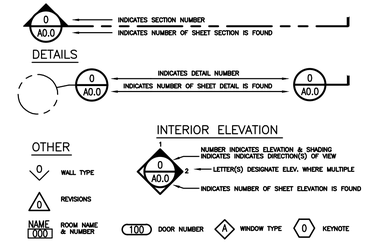
ALCOVE MANEUVERING CLEARANCE



ACCESSIBLE ROUTE CLEARANCE



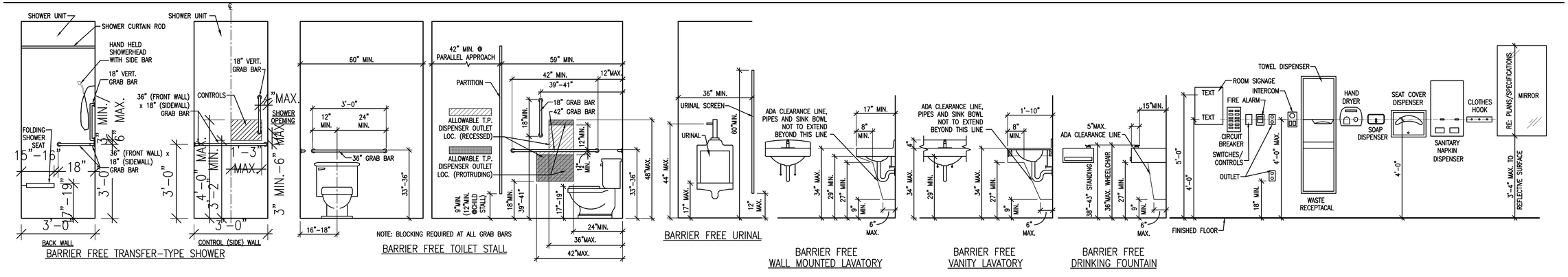
GRAPHIC SYMBOLS



GENERAL NOTES

1. TRANSITION AND REDUCER STRIPS TO MATCH COLOR OF FLOORING, UNLESS OTHERWISE NOTED.
2. TRANSITION ALL FLOOR FINISHES AT CENTER OF DOOR, UNLESS OTHERWISE NOTED.
3. WHERE TWO OR MORE FINISHES APPEAR IN THE FINISH SCHEDULE FOR ONE SURFACE, REFER TO PLANS, DETAILS AND ELEVATIONS FOR ADDITIONAL INFORMATION.
4. RECESSED WIREWAYS, ACCESS PANELS, GRILLES, FIRE EXTINGUISHER CABINETS, ELECTRICAL PANELS AND ALL OTHER SUCH ARCHITECTURAL, ELECTRICAL, AND MECHANICAL DEVICES SHALL BE FINISHED TO MATCH ADJACENT WALL OR CEILING SURFACE, UNLESS OTHERWISE NOTED.
5. ALL PAINT TO BE LOW VOC.
6. ROOM: SEE FLOOR PLAN(S) FOR LOCATION OF ROOM NUMBERS AND NAMES.
7. CEILING TYPE, FLOOR, AND BASE: SEE "CODE TO ROOM FINISH SCHEDULE" FOR DEFINITION OF DESIGNATIONS.
8. WALLS: SEE "CODE TO ROOM FINISH SCHEDULE" FOR DEFINITION OF DESIGNATIONS IN TYPICAL, NORTH, SOUTH, EAST AND WEST COLUMNS.
9. REMARKS: SEE "REMARKS TO FINISH SCHEDULE".

BARRIER FREE MOUNTING REQUIREMENTS (ICC A117.1-2009)



DI ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.
MARQUETTE OFFICE: 1021 W. BARAGA AVENUE MARQUETTE, MI 49855 PHONE: (906)228-2580 FAX: (906)228-2524
BRIGHTON OFFICE: 8371 W. GRAND RIVER AVE., SUITE 600 BRIGHTON, MI 48116 PHONE: (810)229-2701 FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

BY	DATE
DESIGN -	- -
DRAWN -	- -
CHECKED -	- -
APPROVED -	- -

INDEX, CLEARANCES & ADA MOUNTING HEIGHTS

COPYRIGHT © 2019 INTEGRATED DESIGNS INC.

A0.1

PLUMBING FIXTURE CALCULATIONS

GROUP 'E'		WATER CLOSETS			LAVATORIES			DRINKING FOUNTAIN	
	OCCUP COUNT	1 PER 50	1 PER 50	W/C REQ'D	1 PER 50	1 PER 50	LAV REQ'D	1 PER 100	DF REQ'D
MALE	200	4	~	4	4	~	4		
FEMALS	200	~	4	4	~	4	4		
SUBTOTAL	400			8			8	4	4

TOTAL		WATER CLOSETS			LAVATORIES			DRINKING FOUNTAIN		
	OCCUP COUNT	W/C PROVIDED		W/C REQUIRED	LAV PROVIDED		LAV REQUIRED	DF PROVIDED		DF REQUIRED
MALE	200	5		4	3		4			
FEMALE	200	5		4	3		4			
SINGLE USER		3			3					
TOTAL	400	13	>	8	9	>	8	6	>	4

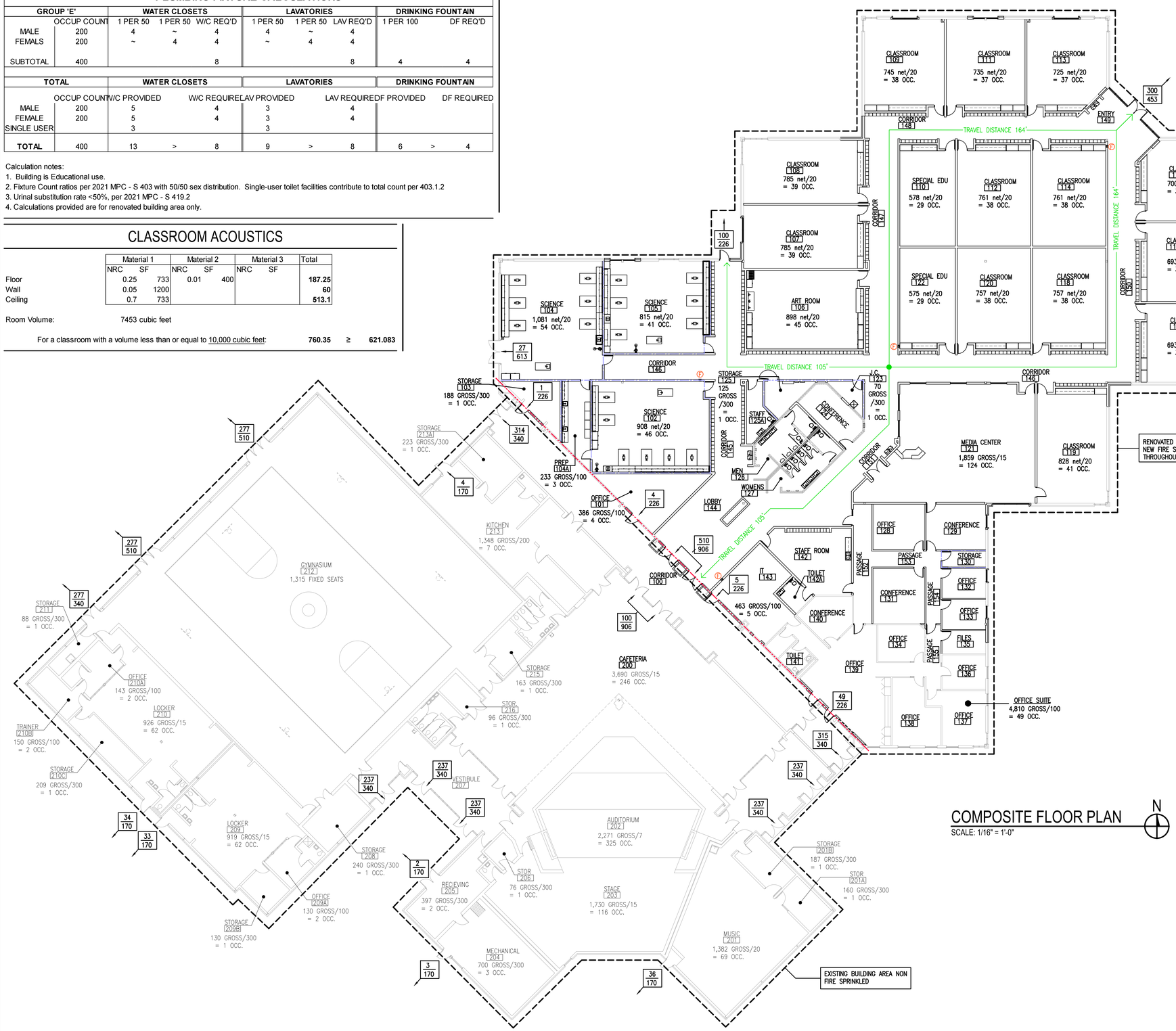
Calculation notes:
1. Building is Educational use.
2. Fixture Count ratios per 2021 MPC - S 403 with 50/50 sex distribution. Single-user toilet facilities contribute to total count per 403.1.2
3. Urinal substitution rate <50%, per 2021 MPC - S 419.2
4. Calculations provided are for renovated building area only.

CLASSROOM ACOUSTICS

	Material 1		Material 2		Material 3		Total
	NRC	SF	NRC	SF	NRC	SF	
Floor	0.25	733	0.01	400			**187.25**
Wall	0.05	1200					**60**
Ceiling	0.7	733					**513.1**

Room Volume: 7453 cubic feet

For a classroom with a volume less than or equal to 10,000 cubic feet: **760.35** ≥ **621.083**



COMPOSITE FLOOR PLAN

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

CODE SUMMARY

APPLICABLE CODES

- 2021 MICHIGAN REHABILITATION CODE with state amendments
- 2021 MICHIGAN BUILDING CODE with state amendments
- 2021 MICHIGAN PLUMBING CODE with state amendments
- 2021 MICHIGAN MECHANICAL CODE with state amendments
- 2021 MICHIGAN ENERGY CODE with state amendments / ASHREA 90.1
- 2016 SCHOOL FIRE SAFETY RULES, NFPA 101 – LIFE SAFETY CODE 2012 EDITION
- 2023 NFPA 70 NATIONAL ELECTRICAL CODE OF MICHIGAN with state amendments
  2013 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE OF MICHIGAN ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES OF MICHIGAN without state amendments
- 2019 NFPA 13 STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS OF MICHIGAN without state amendments
- 2017 ANSI A117.1 MICHIGAN ACCESSIBILITY CODE
- MICHIGAN DEPARTMENT OF LABOR CONSTRUCTION CODE COMMISSION GENERAL RULES

TOTAL BUILDING AREA: 65,985 S.F.
RENOVATED AREA: 33,750 S.F.

–NO CHANGES TO OCCUPANT LOAD

CODE ANALYSIS

STORIES	1	
OCCUPANCY CLASSIFICATION	GROUP E	
CONSTRUCTION TYPE	IIB	
SPRINKLER SYSTEM PROTECTION	RENOVATED AREA YES EXISTING NON RENOVATED AREA NO	
CONSTRUCTION PROTECTION	NON–BEARING PARTITIONS	0HR
	STRUCTURAL FRAME	0HR
	EXTERIOR NON–BEARING WALLS	0HR
	ROOF	0HR

LIFE SAFETY LEGEND

	ONE HOUR FIRE PARTITION
	TWO HOUR FIRE PARTITION
ROOM NAME 101 200 net/20 = 10 OCC	OCCUPANT LOAD CALCULATION
40 227	EGRESS OCCUPANT LOAD EGRESS OCCUPANT CAPACITY
250'–0" MAX.	PATH OF TRAVEL
Ⓕ	RECESSED FIRE EXTINGUISHER CABINET, TRAVEL DISTANCE NOT TO EXCEED 75 FEET

GENERAL NOTES

1. DO NOT SCALE DRAWINGS; USE FIGURED DIMENSIONS ONLY. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
2. FIELD VERIFY: ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH WORK.
3. ENLARGED PLANS: WHERE ENLARGED OR PARTIAL PLANS ARE REFERENCED. DIMENSIONS, SPECIAL DETAILING, OR FINISH REQUIREMENTS ARE NOTED ON THE ENLARGED PLANS AND OMITTED ON THE SMALLER SCALE OR OVERALL PLANS.
4. PARTITION STANDARD: IT IS INTENDED THAT THE FACE OF EVERY CONTINUOUS PARTITION BE FLUSH, WITHOUT OFFSETS, EVEN AT AN INTERMEDIATE CHANGE IN PARTITION THICKNESS. CHANGES IN PARTITION THICKNESS OCCUR ONLY AT INSIDE OR OUTSIDE CORNERS. THE FACES OF CORRIDOR WALLS MUST ALIGN WITHOUT OFFSETS (UNLESS GRAPHICALLY SHOWN OTHERWISE) ALONG THEIR ENTIRE LENGTH.
5. INTERMEDIATE BREAKS OR INTERRUPTIONS. ALL ADJUSTMENTS DUE TO CHANGE IN PARTITION THICKNESS MUST OCCUR ON THE ADJOINING ROOM SIDE OF CORRIDOR PARTITIONS AT THE NEAREST INSIDE OR OUTSIDE CORNER.
6. ALL ELECTRICAL PANELS, FIRE EXTINGUISHER CABINETS, ETC., LOCATED IN RELATED PARTITIONS SHALL BE BACKED WITH GYPSUM BOARD AS REQUIRED TO RETAIN PARTITION
7. WHEN CONTRADICTIONS OCCUR BETWEEN PLANS AND SPECIFICATIONS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION.
8. WORK SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL CODES, LAWS AND REGULATIONS.
9. REFER TO ELECTRICAL, MECHANICAL, STRUCTURAL AND CIVIL DRAWINGS AS APPLICABLE FOR ADDITIONAL SCOPE OF WORK.
10. ALL NEW WORK SHALL MEET BARRIER FREE REQUIREMENTS (I.E. GRAB BARS, DOOR HARDWARE, CASEWORK HEIGHTS, ETC.)
11. REFERENCE EACH DISCIPLINES SHEETS FOR ADDITIONAL GENERAL NOTES.
12. SCHOOL HAS FIRST RIGHT OF REFUSAL FOR ANY REMOVED ITEMS.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4845
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

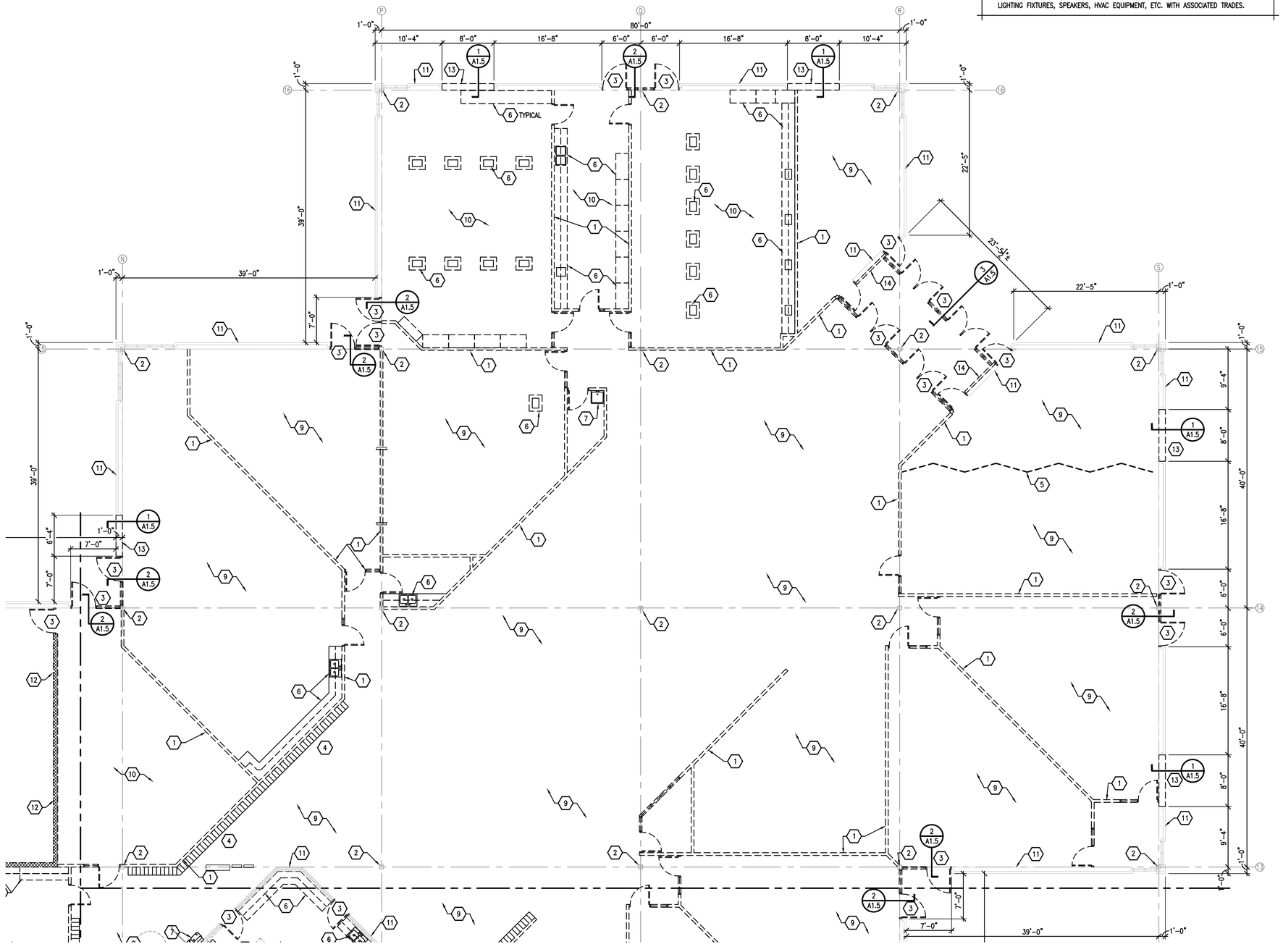
NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

BY	DATE
DESIGN	
DRAWN	
CHECKED	
APPROVED	

LIFE SAFETY & CODE ALALYSIS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A0.0



DEMOLITION PLAN AREA 'A'

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

CEILING DEMOLITION

UNLESS NOTED OTHERWISE, REMOVE ALL SUSPENDED ACOUSTICAL CEILINGS AND ALL GYPSUM BOARD CEILINGS AND SOFFITS THROUGHOUT DEMOLITION AREAS A, B & C. REMOVE ALL ASSOCIATED HANGERS, FRAMING, GRIDS, ACCESSORIES AND INCIDENTALS. COORDINATE REMOVAL OF CEILING LOCATED DEVICES INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, SPEAKERS, HVAC EQUIPMENT, ETC. WITH ASSOCIATED TRADES.

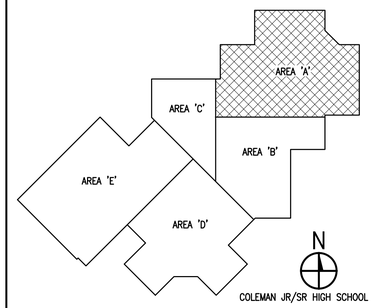
KEYNOTES

1. TYPICAL UNLESS NOTED OTHERWISE, REMOVE EXISTING "DEMOUNTABLE PARTITION" ASSEMBLY IN ITS ENTIRETY. REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES. REMOVE ALL ASSOCIATED INCIDENTALS INCLUDING BUT NOT LIMITED TO DOORS, WINDOWS, FRAMES, HARDWARE. COORDINATE DEMOLITION WITH ELECTRICAL AND MECHANICAL TRADES.
2. EXISTING 8" STEEL TUBE COLUMN TO REMAIN.
3. REMOVE EXISTING DOOR(S), FRAME, GLAZING, HARDWARE, AND ALL ASSOCIATED FASTENERS AND ACCESSORIES.
4. REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES.
5. REMOVE EXISTING MOVABLE PARTITION WALL IN ITS ENTIRETY. REMOVE ALL ASSOCIATED TRACKS, HARDWARE, AND ACCESSORIES.
6. REMOVE EXISTING COUNTERTOPS AND CASEWORK IN ITS ENTIRETY, REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES. COORDINATE ANY ASSOCIATED PLUMBING AND/OR GAS REMOVAL WITH PLUMBING CONTRACTOR.
7. EXISTING PLUMBING FIXTURE TO BE REMOVED, REFER TO PLUMBING PLANS, COORDINATE WITH PLUMBING CONTRACTOR.
8. NOT USED
9. REMOVE EXISTING CARPET FLOORING IN ITS ENTIRETY. REMOVE ALL ASSOCIATED ACCESSORIES. EXISTING CONCRETE SLAB TO REMAIN, CLEAN AND PREPARE FOR NEW FLOOR FINISHES.
10. REMOVE EXISTING VINYL COMPOSITION TILE FLOORING IN ITS ENTIRETY. REMOVE ALL ASSOCIATED ACCESSORIES. EXISTING CONCRETE SLAB TO REMAIN, CLEAN AND PREPARE FOR NEW FLOOR FINISHES.
11. UNLESS NOTED OTHERWISE, EXISTING MASONRY WALL TO REMAIN.
12. HATCHED AREA INDICATES EXISTING 8" MASONRY WALL TO BE REMOVED IN ITS ENTIRETY.
13. REMOVE PORTION OF EXISTING 8" MASONRY AND FACE BRICK WALL TO ACCOMMODATE NEW LINTEL AND WINDOW UNITS. REFER TO DEMOLITION SECTION. BRACE WALL AS NEEDED UNTIL LINTEL IS IN PLACE. SALVAGE FACE BRICK TO BE RE-USED FOR INFILL PURPOSES, REFER TO NEW WORK PLANS
14. REMOVE EXISTING FACE BRICK VENEER, SALVAGE FOR RE-INSTALLATION AND PATCHWORK IN OTHER AREAS. EXISTING 8" CONCRETE MASONRY TO REMAIN. PREPARE MASONRY TO REMAIN FOR NEW 4" MASONRY VENEER. SALVAGE FACE BRICK TO BE RE-USED FOR INFILL PURPOSES, REFER TO NEW WORK PLANS

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.
2. SALVAGE AND TURN OVER TO OWNER ALL EXISTING WHITE BOARDS AND TACK BOARDS. FIELD VERIFY QUANTITY AND LOCATIONS.
3. OWNER RESERVES FIRST RIGHT OF REFUSAL OF ANY ITEMS BEING REMOVED.
4. UNLESS NOTED OTHERWISE SALVAGE ANY FACE BRICK REMOVED. REINSTALL IN AREAS BEING PATCHED REPAIRED OR IN FILLED. REFER TO NEW WORK PLANS.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRMINGHAM OFFICE:
611 PIERCE STREET, SUITE 606
BIRMINGHAM, MI 48009
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

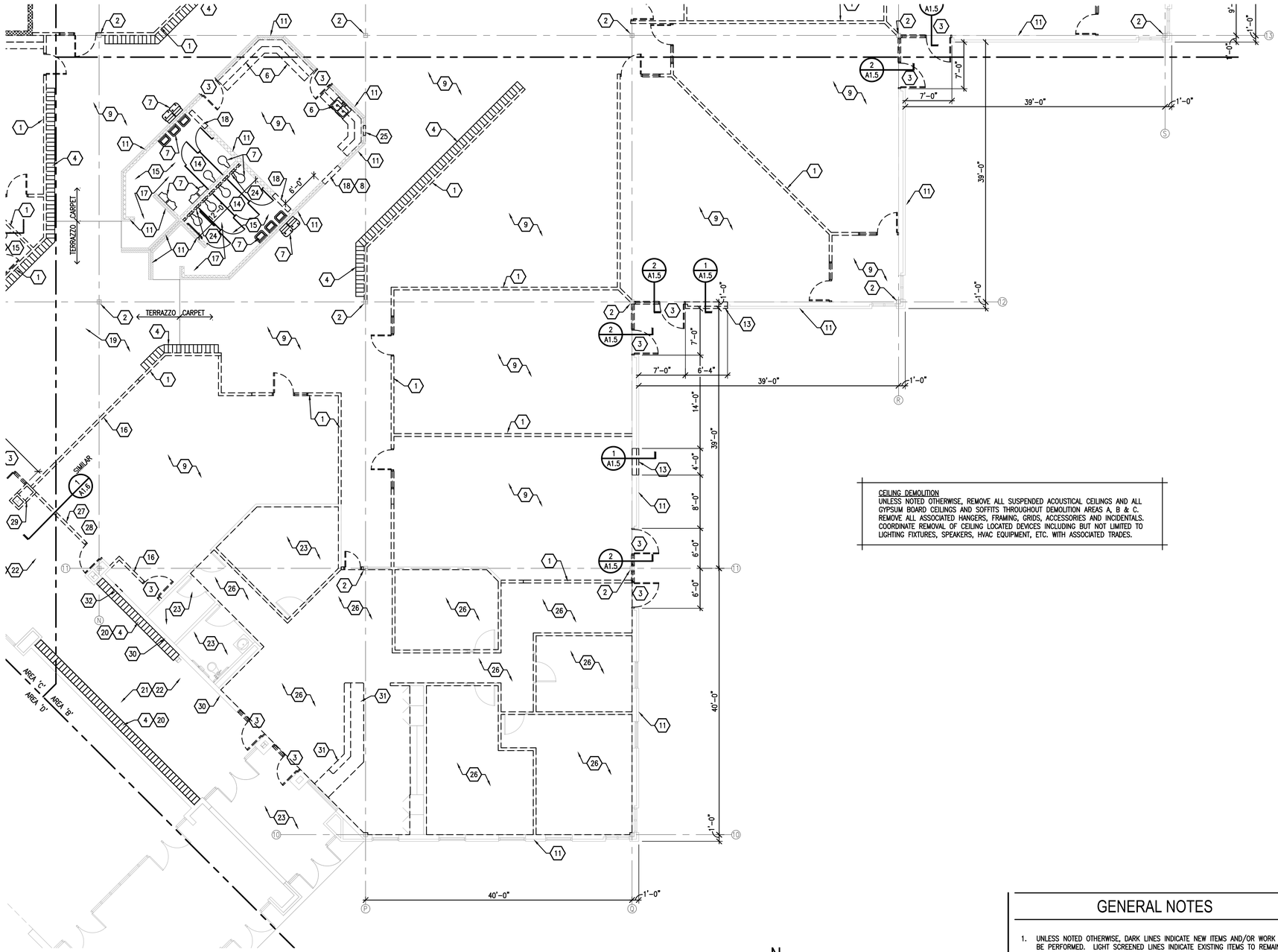
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-28-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

DEMOLITION PLAN
AREA 'A'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A1.0



DEMOLITION PLAN AREA 'B'

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

CEILING DEMOLITION

UNLESS NOTED OTHERWISE, REMOVE ALL SUSPENDED ACOUSTICAL CEILINGS AND ALL GYPSUM BOARD CEILINGS AND SOFFITS THROUGHOUT DEMOLITION AREAS A, B & C. REMOVE ALL ASSOCIATED HANGERS, FRAMING, GRIDS, ACCESSORIES AND INCIDENTALS. COORDINATE REMOVAL OF CEILING LOCATED DEVICES INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, SPEAKERS, HVAC EQUIPMENT, ETC. WITH ASSOCIATED TRADES.

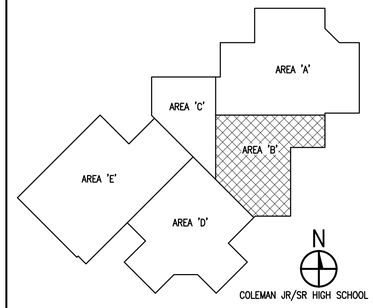
KEYNOTES

1. TYPICAL UNLESS NOTED OTHERWISE, REMOVE EXISTING "DEMOUNTABLE PARTITION" ASSEMBLY IN ITS ENTIRETY. REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES. REMOVE ALL ASSOCIATED DOORS, FRAMES, HARDWARE.
2. EXISTING 8" STEEL TUBE COLUMN TO REMAIN.
3. REMOVE EXISTING DOOR(S), FRAME, GLAZING, HARDWARE, AND ALL ASSOCIATED FASTENERS AND ACCESSORIES.
4. REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES.
5. NOT USED.
6. REMOVE EXISTING COUNTERTOPS AND CASEWORK IN ITS ENTIRETY, REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES. COORDINATE ANY ASSOCIATED PLUMBING AND/OR GAS REMOVAL WITH PLUMBING CONTRACTOR.
7. EXISTING PLUMBING FIXTURE TO BE REMOVED, REFER TO PLUMBING PLANS, COORDINATE WITH PLUMBING CONTRACTOR.
8. AT NEW DOOR OPENING, REMOVE AND SALVAGE EXISTING FACEBRICK. RE-INSTALL FACE BRICK WHERE NEEDED AT ANY PATCH AND REPAIR AREAS, FIELD VERIFY EXTENTS.
9. REMOVE EXISTING CARPET FLOORING IN ITS ENTIRETY. REMOVE ALL ASSOCIATED ACCESSORIES. EXISTING CONCRETE SLAB TO REMAIN, CLEAN AND PREPARE FOR NEW FLOOR FINISHES.
10. REMOVE EXISTING VINYL COMPOSITION TILE FLOORING IN ITS ENTIRETY. REMOVE ALL ASSOCIATED ACCESSORIES. EXISTING CONCRETE SLAB TO REMAIN, CLEAN AND PREPARE FOR NEW FLOOR FINISHES.
11. UNLESS NOTED OTHERWISE, EXISTING MASONRY WALL TO REMAIN.
12. REMOVE EXISTING 8" MASONRY WALL IN ITS ENTIRETY.
13. REMOVE PORTION OF EXISTING 8" MASONRY AND FACE BRICK WALL TO ACCOMMODATE NEW LINTEL AND WINDOW UNITS. REFER TO DEMOLITION SECTION. BRACE WALL AS NEEDED UNTIL LINTEL IS IN PLACE.
14. REMOVE EXISTING TOILET PARTITIONS IN THEIR ENTIRETY, REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES.
15. REMOVE ALL TOILET ROOM ACCESSORIES IN THEIR ENTIRETY. REMOVE ALL FASTENERS AND ACCESSORIES. INCLUDING BUT NOT LIMITED TO GRAB BARS, TISSUE DISPENSERS, SOAP DISPENSERS, MIRRORS, ETC. FIELD VERIFY TYPE AND QUANTITY.
16. REMOVE EXISTING GYPSUM BOARD PARTITION IN ITS ENTIRETY. REMOVE ALL FASTENERS AND ASSOCIATED ACCESSORIES.
17. REMOVE EXISTING CERAMIC TILE FLOORING AND WALL BASE IN ITS ENTIRETY. REMOVE ALL ASSOCIATED ACCESSORIES AND INCIDENTALS. CONCRETE SLAB TO REMAIN.
18. REMOVE PORTION OF EXISTING MASONRY WALL TO ACCOMMODATE NEW DOOR AND ASSOCIATED LINTEL. FINISHED OPENING TO BE 3'-4" WIDE x 7'-4" TALL. BRACE WALL AS NEEDED UNTIL NEW LINTEL IS IN PLACE.
19. EXISTING TERRAZZO FLOORING TO REMAIN.
20. SAW CUT AND REMOVE EXISTING CONCRETE LOCKER BASE. PROTECT EXISTING ADJACENT TERRAZZO FLOORING. FLOORING TO BE PATCHED WHERE BASE IS REMOVED.
21. EXISTING TERRAZZO FLOORING TO REMAIN. PROTECT FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
22. REFER TO ALTERNATE #1 ON SHEET A1.2. EXISTING CEILING SYSTEM TO REMAIN IN THIS AREA UNLESS ALTERNATE #1 IS ACCEPTED.
23. NO WORK IN THIS AREA
24. REMOVE EXISTING 4" MASONRY WALL TO ACCOMMODATE PLUMBING RECONFIGURATION. FIELD VERIFY WALL HEIGHT,
25. REMOVE EXISTING ELECTRICAL PANEL, REFER TO ELECTRICAL DRAWINGS.
26. REMOVE EXISTING CARPET FLOORING AND VINYL WALL BASE IN THIS ROOM.
27. REMOVE EXISTING METAL STUD AND GYPSUM WALL IN IT'S ENTIRETY. REMOVE PORTION OF EXISTING GYPSUM BOARD AND METAL STUD SOFFIT ABOVE TO ACCOMMODATE NEW MASONRY WALL TO STRUCTURE ABOVE. REMOVE EXISTING DOOR, FRAME, AND ALL ASSOCIATED INCIDENTALS.
28. REMOVE PORTION OF EXISTING METAL STUD AND GYPSUM BOARD SOFFIT ABOVE TO ACCOMMODATE NEW MASONRY WALL TO STRUCTURE.
29. REMOVE EXISTING FACE BRICK COLUMN COVER.
30. EXISTING 8" CONCRETE MASONRY WALL TO REMAIN.
31. REMOVE AND SALVAGE EXISTING RECEPTION DESK TO ACCOMMODATE NEW CONSTRUCTION. PROTECT FROM DAMAGE, DESK TO BE REINSTALLED.
32. REMOVE EXISTING VENT LOUVERS ON BOTH SIDES OF WALL. REMOVE ANY THRU WALL SLEEVE, FIELD VERIFY.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.
2. SALVAGE AND TURN OVER TO OWNER ALL EXISTING WHITE BOARDS AND TACK BOARDS. FIELD VERIFY QUANTITY AND LOCATIONS.
3. OWNER RESERVES FIRST RIGHT OF REFUSAL OF ANY ITEMS BEING REMOVED.
4. UNLESS NOTED OTHERWISE SALVAGE ANY FACE BRICK REMOVED. REINSTALL IN AREAS BEING PATCHED REPAIRED OR IN FILLED. REFER TO NEW WORK PLANS.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8001 LAKE CHEMO RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

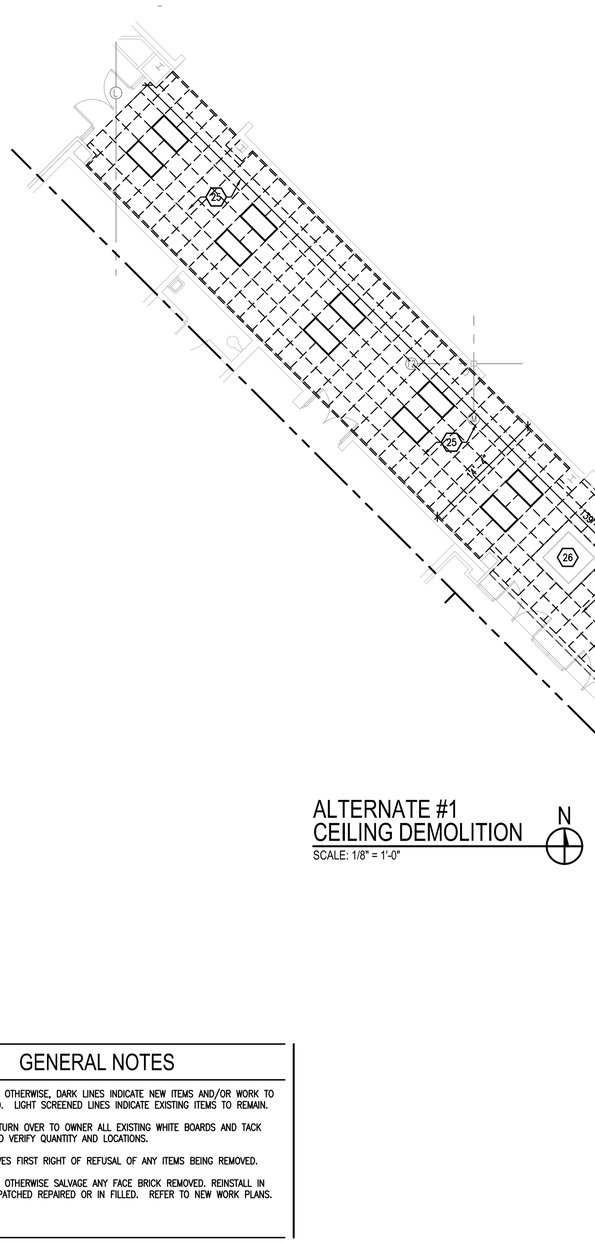
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

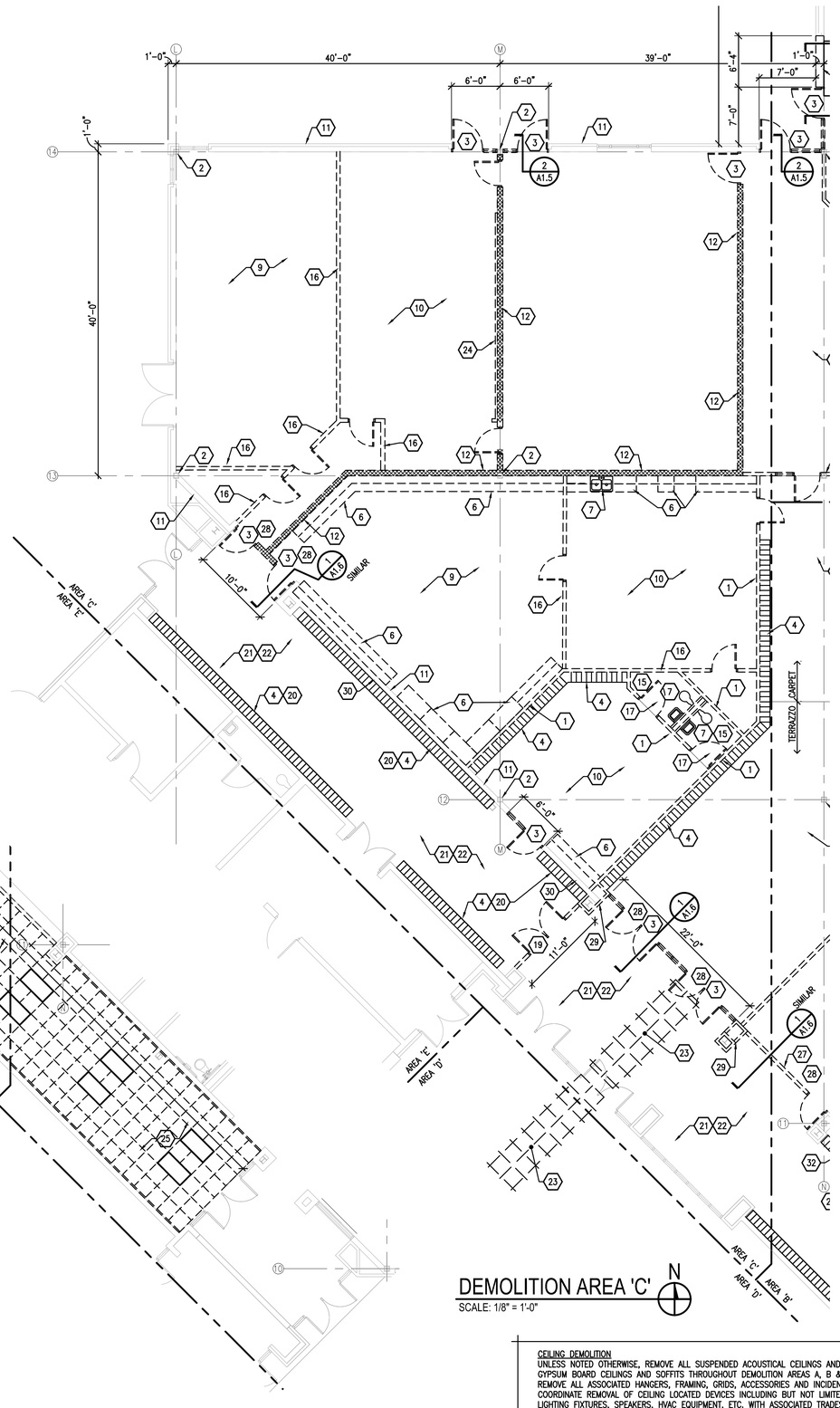
	BY	DATE
DESIGN		
DRAWN		
CHECKED		
APPROVED		

DEMOLITION PLAN
AREA 'B'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A1.1





GENERAL NOTES

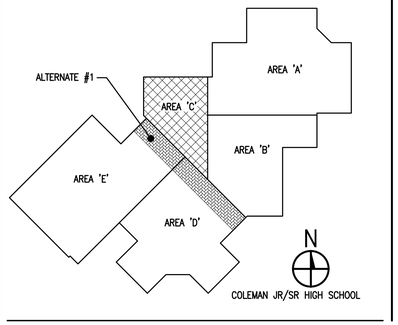
1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.
2. SALVAGE AND TURN OVER TO OWNER ALL EXISTING WHITE BOARDS AND TACK BOARDS. FIELD VERIFY QUANTITY AND LOCATIONS.
3. OWNER RESERVES FIRST RIGHT OF REFUSAL OF ANY ITEMS BEING REMOVED.
4. UNLESS NOTED OTHERWISE SALVAGE ANY FACE BRICK REMOVED. REINSTALL IN AREAS BEING PATCHED REPAIRED OR IN FILLED. REFER TO NEW WORK PLANS.

KEYNOTES

1. TYPICAL UNLESS NOTED OTHERWISE, REMOVE EXISTING "DEMOUNTABLE PARTITION" ASSEMBLY IN ITS ENTIRETY. REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES. REMOVE ALL ASSOCIATED DOORS, FRAMES, HARDWARE.
2. EXISTING 8" STEEL TUBE COLUMN TO REMAIN.
3. REMOVE EXISTING DOOR(S), FRAME, GLAZING, HARDWARE, AND ALL ASSOCIATED FASTENERS AND ACCESSORIES.
4. REMOVE EXISTING METAL LOCKERS IN THEIR ENTIRETY. REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES.
5. NOT USED.
6. REMOVE EXISTING COUNTERTOPS AND CASEWORK IN ITS ENTIRETY, REMOVE ALL ASSOCIATED FASTENERS AND ACCESSORIES. COORDINATE ANY ASSOCIATED PLUMBING AND/OR GAS REMOVAL WITH PLUMBING CONTRACTOR.
7. EXISTING PLUMBING FIXTURE TO BE REMOVED, REFER TO PLUMBING PLANS, COORDINATE WITH PLUMBING CONTRACTOR.
8. NOT USED.
9. REMOVE EXISTING CARPET FLOORING IN ITS ENTIRETY. REMOVE ALL ASSOCIATED ACCESSORIES. EXISTING CONCRETE SLAB TO REMAIN, CLEAN AND PREPARE FOR NEW FLOOR FINISHES.
10. REMOVE EXISTING VINYL COMPOSITION TILE FLOORING IN ITS ENTIRETY. REMOVE ALL ASSOCIATED ACCESSORIES. EXISTING CONCRETE SLAB TO REMAIN, CLEAN AND PREPARE FOR NEW FLOOR FINISHES.
11. UNLESS NOTED OTHERWISE, EXISTING MASONRY WALL TO REMAIN.
12. REMOVE EXISTING 8" MASONRY WALL IN ITS ENTIRETY. HEIGHT FROM CONCRETE SLAB TO DECK ABOVE APPROXIMATELY 14'-0" FIELD VERIFY.
13. NOT USED.
14. NOT USED.
15. REMOVE ALL TOILET ROOM ACCESSORIES IN THEIR ENTIRETY. REMOVE ALL FASTENERS AND ACCESSORIES. INCLUDING BUT NOT LIMITED TO GRAB BARS, TISSUE DISPENSERS, SOAP DISPENSERS, MIRRORS, ETC. FIELD VERIFY TYPE AND QUANTITY.
16. REMOVE EXISTING GYPSUM BOARD PARTITION IN ITS ENTIRETY. REMOVE ALL FASTENERS AND ASSOCIATED ACCESSORIES. REMOVE ANY ASSOCIATED DOORS, FRAMES, AND HARDWARE.
17. REMOVE EXISTING CERAMIC TILE FLOORING AND WALL BASE IN ITS ENTIRETY. REMOVE ALL ASSOCIATED ACCESSORIES AND INCIDENTALS. CONCRETE SLAB TO REMAIN.
18. NOT USED.
19. REMOVE EXISTING GYPSUM BOARD AND METAL STUD WALL IN ITS ENTIRETY. REMOVE ALL FASTENERS AND ACCESSORIES. REMOVE EXISTING DOOR, FRAME AND HARDWARE.
20. SAW CUT AND REMOVE EXISTING CONCRETE LOCKER BASE. PROTECT EXISTING ADJACENT TERRAZZO FLOORING. FLOORING TO BE PATCHED WHERE BASE IS REMOVED.
21. EXISTING TERRAZZO FLOORING TO REMAIN. PROTECT FROM DAMAGE DUE TO CONSTRUCTION ACTIVITIES.
22. UNLESS NOTED OTHERWISE AND/OR ACCEPTANCE OF ALTERNATE #1 EXISTING CEILING SYSTEM TO REMAIN IN THIS AREA.
23. REMOVE PORTION OF EXISTING 2x2 ACOUSTICAL CEILING AS NEEDED TO ACCOMMODATE ABOVE CEILING FIRE SPRINKLER WORK. COORDINATE EXTENTS WITH SPRINKLER CONTRACTOR. SALVAGE AND PROTECT ANY REMOVED CEILING TILES AND GRID SECTIONS FOR REINSTALLATION WHEN SPRINKLER WORK IS COMPLETE.
24. NOT USED.
25. ALTERNATE #1 – REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING AND METAL GRID IN ITS ENTIRETY. REMOVE ALL HANGERS, FASTENERS, AND ACCESSORIES. REMOVE EXISTING ELECTRICAL DEVICES, REFER TO ELECTRICAL PLANS.
26. ALTERNATE #1 – EXISTING SKYLIGHT TO REMAIN. CLEAN AND SCRAPE SURFACES, PATCH AND REPAIR AS NEEDED, PREPARE FOR NEW PAINT FINISH.
27. REMOVE EXISTING METAL STUD AND GYPSUM WALL IN IT'S ENTIRETY. REMOVE PORTION OF EXISTING GYPSUM BOARD AND METAL STUD SOFFIT ABOVE TO ACCOMMODATE NEW MASONRY WALL TO STRUCTURE ABOVE. REMOVE EXISTING DOOR, FRAME, AND ALL ASSOCIATED INCIDENTALS.
28. REMOVE EXISTING METAL STUD AND GYPSUM BOARD SOFFIT ABOVE TO ACCOMMODATE NEW MASONRY WALL TO STRUCTURE. REFER TO DEMOLITION WALL SECTION.
29. REMOVE EXISTING FACE BRICK COLUMN COVER.
30. EXISTING 8" CONCRETE MASONRY WALL TO REMAIN.

CEILING DEMOLITION
UNLESS NOTED OTHERWISE, REMOVE ALL SUSPENDED ACOUSTICAL CEILINGS AND ALL GYPSUM BOARD CEILINGS AND SOFFITS THROUGHOUT DEMOLITION AREAS A, B &C. REMOVE ALL ASSOCIATED HANGERS, FRAMING, GRIDS, ACCESSORIES AND INCIDENTALS. COORDINATE REMOVAL OF CEILING LOCATED DEVICES INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, SPEAKERS, HVAC EQUIPMENT, ETC. WITH ASSOCIATED TRADES.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8100 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

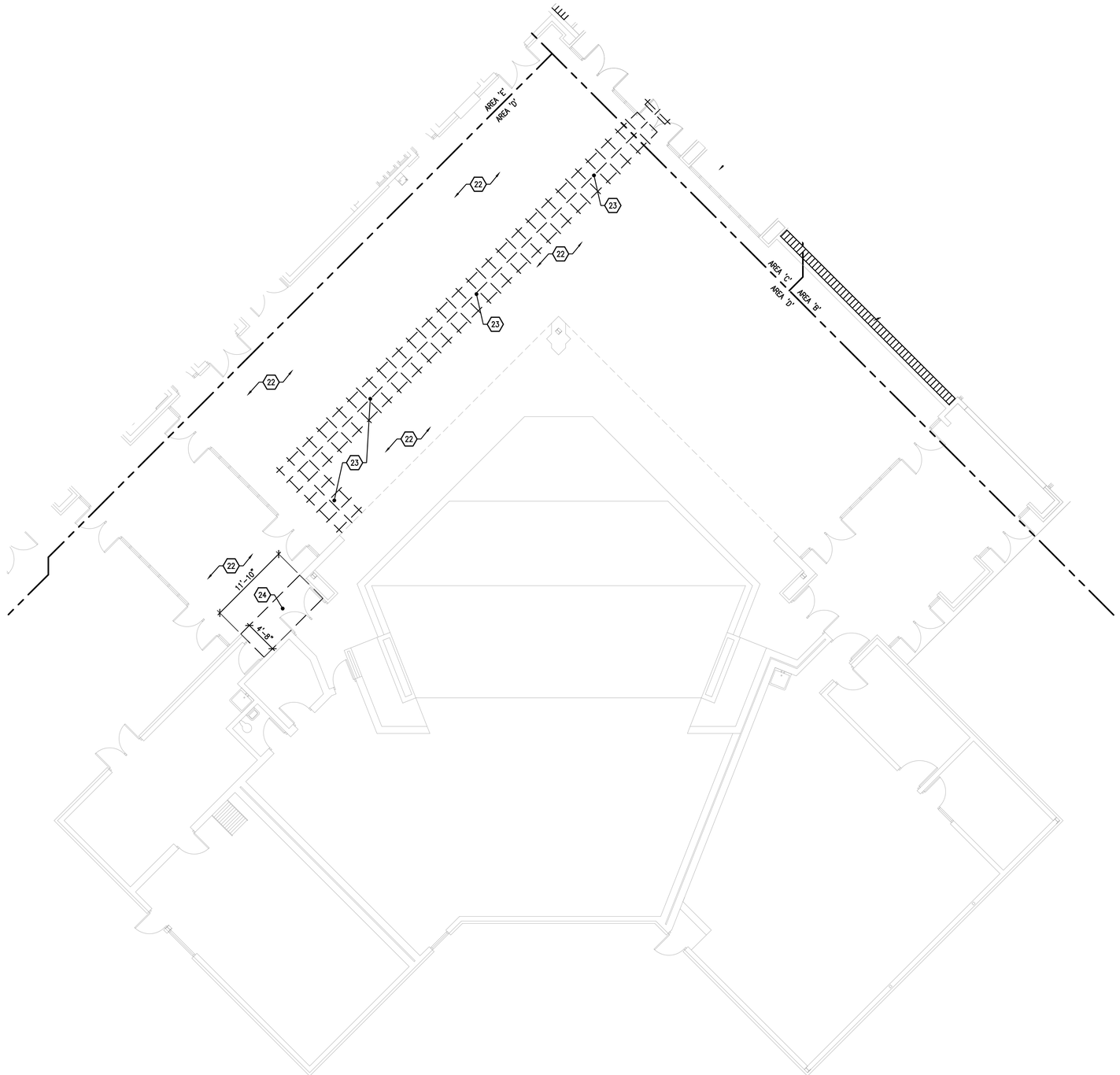
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

DEMOLITION PLAN
AREA 'C' &
ALTERNATE #1 DEMOLITION

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A1.2



DEMOLITION PLAN AREA 'C'

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

N

KEYNOTES

22. EXISTING CEILING SYSTEM TO REMAIN IN THIS AREA UNLESS NOTED OTHERWISE.

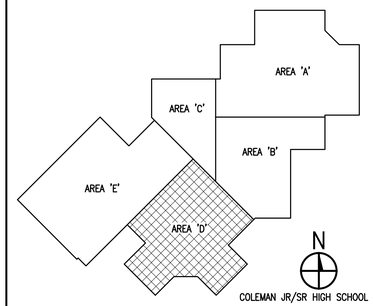
23. REMOVE PORTION OF EXISTING 2x2 ACOUSTICAL CEILING AS NEEDED TO ACCOMMODATE ABOVE CEILING FIRE SPRINKLER WORK. COORDINATE EXTENTS WITH SPRINKLER CONTRACTOR. SALVAGE AND PROTECT ANY REMOVED CEILING TILES AND GRID SECTIONS FOR REINSTALLATION WHEN SPRINKLER WORK IS COMPLETE.

24. REMOVE EXISTING KNOTTY PINE CEILING BOARDS AND ANY ASSOCIATED SUBSTRATE. COORDINATE WITH FIRE SPRINKLER CONTRACTOR.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.
2. SALVAGE AND TURN OVER TO OWNER ALL EXISTING WHITE BOARDS AND TACK BOARDS. FIELD VERIFY QUANTITY AND LOCATIONS.
3. OWNER RESERVES FIRST RIGHT OF REFUSAL OF ANY ITEMS BEING REMOVED.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324
BRIGHTON OFFICE:
8711 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4797

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

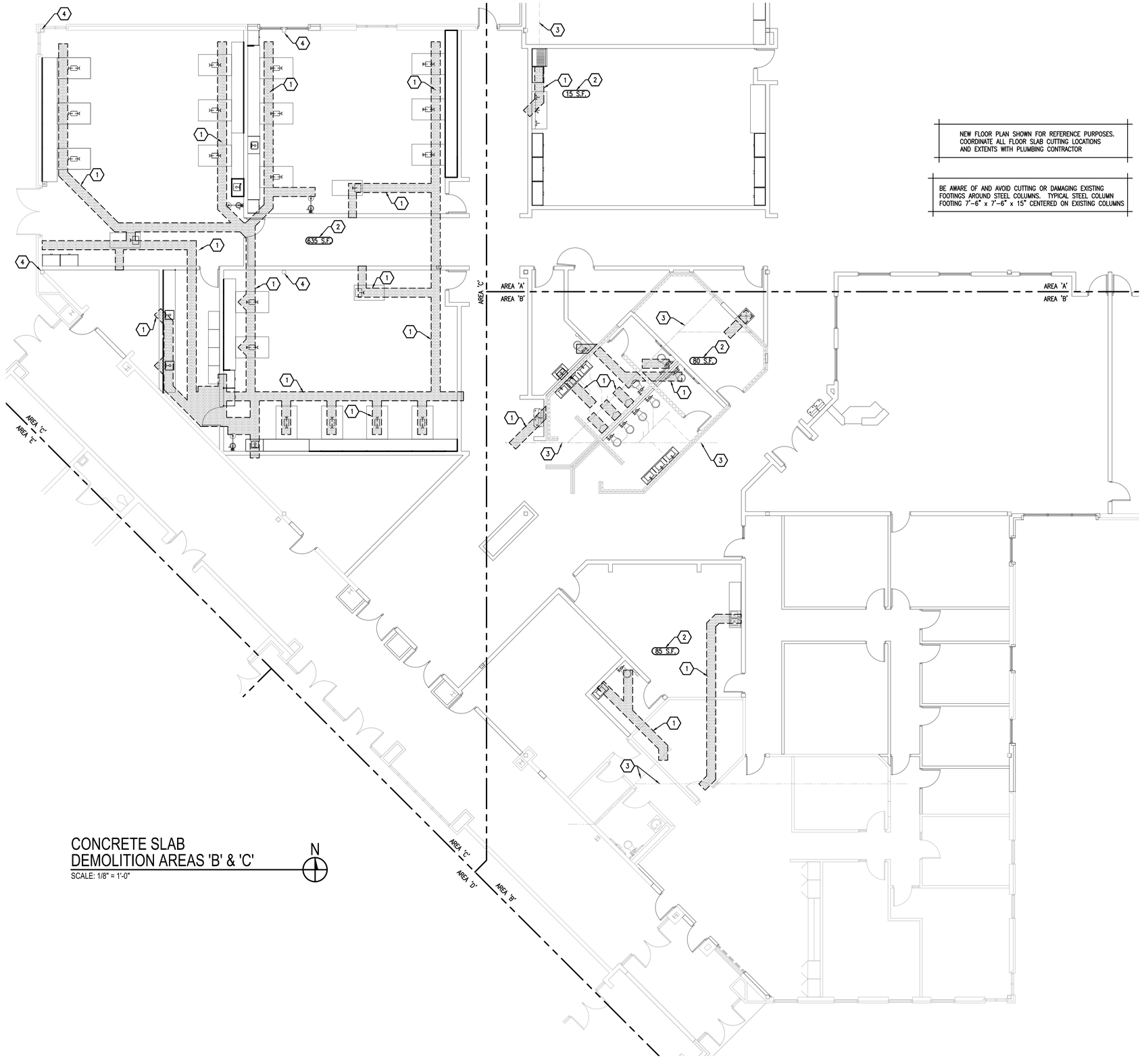
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN		
DRAWN		
CHECKED		
APPROVED		

DEMOLITION PLAN
AREA 'D'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A1.3



NEW FLOOR PLAN SHOWN FOR REFERENCE PURPOSES. COORDINATE ALL FLOOR SLAB CUTTING LOCATIONS AND EXTENTS WITH PLUMBING CONTRACTOR

BE AWARE OF AND AVOID CUTTING OR DAMAGING EXISTING FOOTINGS AROUND STEEL COLUMNS. TYPICAL STEEL COLUMN FOOTING 7'-6" x 7'-6" x 15" CENTERED ON EXISTING COLUMNS

CONCRETE SLAB
DEMOLITION AREAS 'B' & 'C'
SCALE: 1/8" = 1'-0"

N

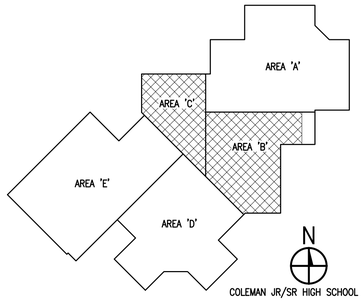
KEYNOTES

1. HATCHED AREA INDICATES APPROXIMATE SAW CUT, REMOVAL, AND REPLACEMENT OF 4" CONCRETE SLAB ON GRADE FOR NEW BELOW GRADE PLUMBING. COORDINATE EXTENTS AND LOCATIONS WITH PLUMBING CONTRACTOR. WHEN PLUMBING WORK IS COMPLETE PATCH CONCRETE SLAB. INSTALL VAPOR BARRIER UNDER NEW CONCRETE AREAS, DOWEL NEW CONCRETE SLAB TO EXISTING WITH 8" STEEL DOWELS AT 24" O.C. DRILL AND SET INTO EXISTING SLAB WITH EPOXY GROUT. PATCHWORK TO BE FLUSH AND LEVEL WITH EXISTING ADJACENT CONCRETE SLAB. PREPARED FOR NEW FLOOR FINISH. COORDINATE WITH PLUMBING CONTRACTOR AND DRAWINGS.
2. INDICATED APPROXIMATE SQUARE FOOTAGE OF 4" CONCRETE SLAB REMOVAL AND REPLACEMENT.
3. ..... LINES INDICATE APPROXIMATE LOCATIONS OF EXISTING BELOW GRADE PLUMBING LINES. FIELD VERIFY, COORDINATE WITH PLUMBING CONTRACTOR.
4. EXISTING STEEL COLUMN. BE AWARE OF AND AVOID CUTTING INTO COLUMN FOOTING.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.
2. SALVAGE AND TURN OVER TO OWNER ALL EXISTING WHITE BOARDS AND TACK BOARDS. FIELD VERIFY QUANTITY AND LOCATIONS.
3. OWNER RESERVES FIRST RIGHT OF REFUSAL OF ANY ITEMS BEING REMOVED.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

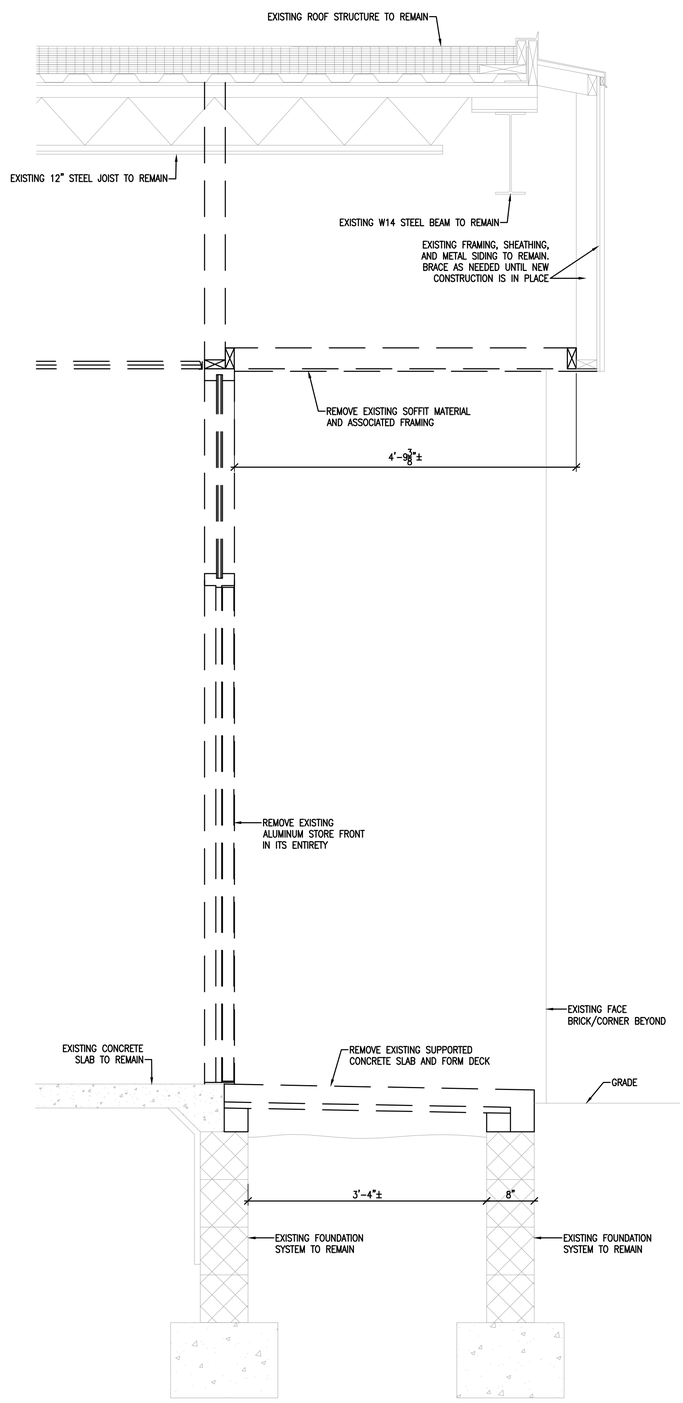
NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

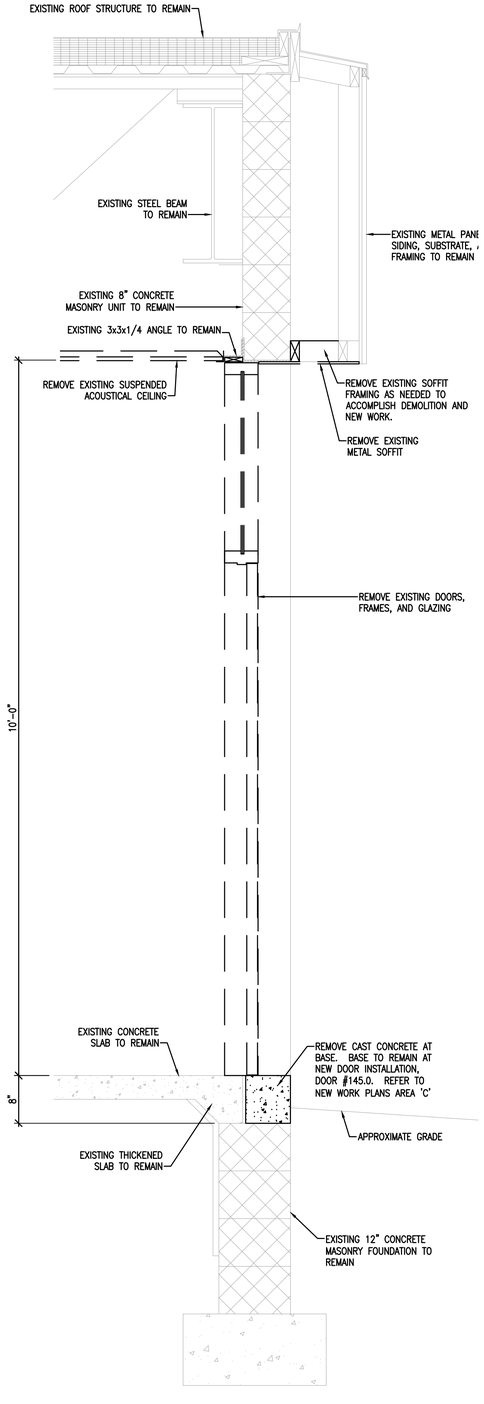
CONCRETE SLAB
DEMOLITION & PATCHING

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

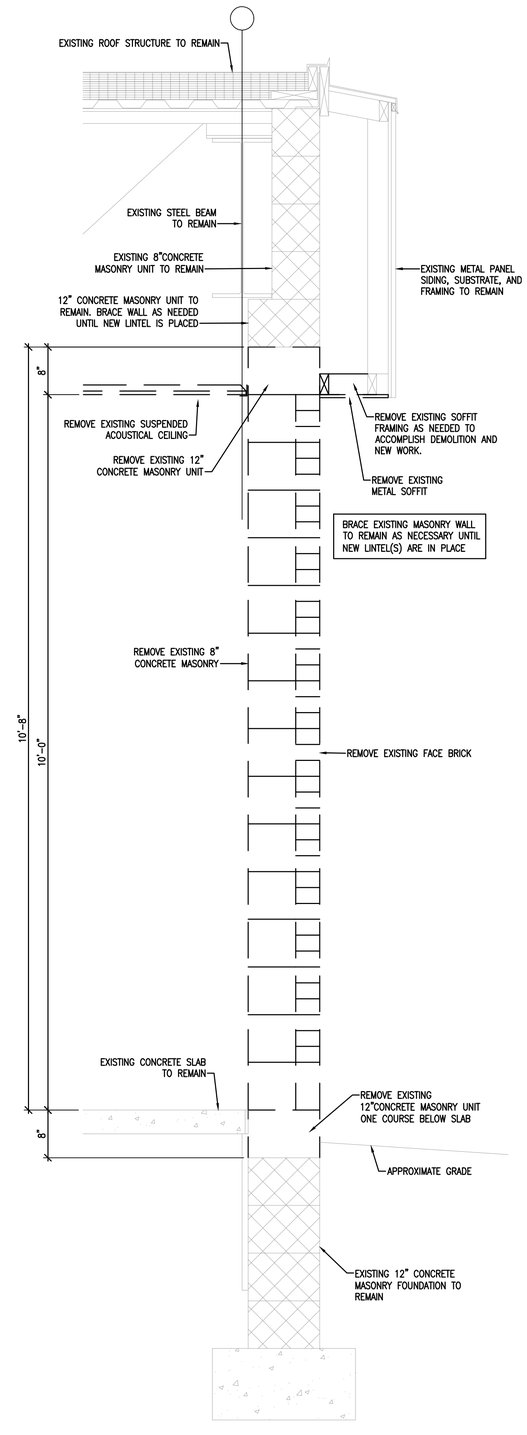
A1.4



DEMOLITION WALL SECTION 3 A1.5
SCALE: 1" = 1'-0"



DEMOLITION WALL SECTION 2 A1.5
SCALE: 1" = 1'-0"



DEMOLITION WALL SECTION 1 A1.5
SCALE: 1" = 1'-0"

INTEGRATED DESIGNS INC.
ARCHITECTURE ENGINEERING CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524
BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

DEMOLITION WALL SECTIONS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A1.5

WALL SECTION
SCALE: 1" = 1'-0"

1
A1.6

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRGHTON OFFICE:
8001 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4797

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	7-24-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

DEMOLITION
WALL SECTIONS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A1.6

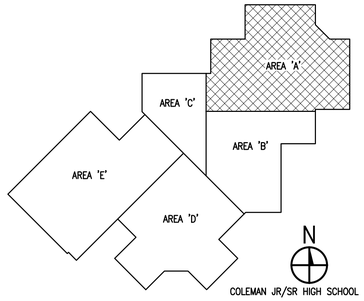
LOCKER COUNT

LOCKER COUNT
- 15" WIDE x 12" DEEP = 304 LOCKERS (CORRIDORS)
- 12" WIDE x 15" DEEP = 14 LOCKERS (STAFF ROOM)

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.
2. OWNER RESERVES FIRST RIGHT OF REFUSAL OF ANY ITEMS BEING REMOVED.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.

KEY PLAN



KEYNOTES

1. PRE-FINISHED 15" WIDE X 12" DEEP X 6'-0" HIGH METAL LOCKERS ON METAL LOCKER BASE, PROVIDE SLOPED TOPS. REFER TO TYPICAL LOCKER ELEVATION. UNLESS NOTED OTHERWISE CENTER LOCKERS IN RECESS, PROVIDE AND INSTALL FILLER PANELS AS NEEDED AT EACH END.
2. EXISTING 8x8 STEEL COLUMN TO REMAIN. PAINT FINISH ANY EXPOSED SURFACES.
3. PLASTIC LAMINATE COUNTERTOPS AND CASEWORK, REFER TO INTERIOR ELEVATIONS.
4. ALUMINUM WINDOW UNIT, REFER TO WINDOW SCHEDULE.
5. INSTALL NEW 4" CONCRETE MASONRY VENEER ON EXISTING 8" CONCRETE MASONRY WALL. EXTEND VENEER FROM CONCRETE SLAB TO MINIMUM 4" ABOVE FINISHED CEILING, APPROXIMATELY 9'-4" A.F.F.
6. NOT USED.
7. HOLLOW METAL FRAME AND GLAZING. REFER TO WINDOW SCHEDULE.
8. MARKER BOARD/TACK BOARD, PER CLASSROOM: (4) 8'-0"x4'-0" MARKER BOARDS, (2) 4'-0"x4'-0" TACK BOARDS. REFER TO INTERIOR ELEVATIONS FOR CONFIGURATION.
9. WALL MOUNTED PROJECTION SCREEN AND BRACKETS, REFER TO SPECIFICATIONS.
10. INFILL EXISTING 8" MASONRY WALL WHERE DOOR AND FRAME PREVIOUSLY REMOVED. TOOTH NEW MASONRY INTO EXISTING ADJACENT.
11. 4" CONCRETE MASONRY PIPE CHASE FOR RELOCATED ROOF DRAIN PIPING, COORDINATE WITH PLUMBING CONTRACTOR. EXTEND 4" MASONRY TO MINIMUM OF 4" ABOVE FINISHED CEILING, APPROXIMATELY 10'-8".
12. MECHANICAL EQUIPMENT, REFER TO MECHANICAL PLAN.
13. ELECTRICAL PANEL, REFER TO POWER PLANS.
14. SPECIALTY ART SINK, REFER TO SPECIALTY CASEWORK DRAWINGS (SHEETS SP1.0 – SP1.12) AND SPECIFICATIONS. COORDINATE WITH PLUMBING CONTRACTOR
15. NEW ALUMINUM STOREFRONT AND GLAZING, REFER TO SCHEDULE.
16. NEW DRINKING FOUNTAIN, REFER TO PLUMBING PLANS.
17. RECESSED FIRE EXTINGUISHER AND CABINET.
18. SPECIALTY CABINETS AND CASEWORK, REFER TO SPECIALTY CASEWORK DRAWINGS (SHEETS SP1.0 – SP1.12) AND SPECIFICATIONS.

WALL TYPES

1. 8" REINFORCED CONCRETE MASONRY UNIT WALL. EXTEND FROM CONCRETE SLAB TO 4" ABOVE TALLEST FINISHED CEILING (APPROXIMATELY 10'-8" A.F.F. AT TOP OF MASONRY EXTEND 5/8" GYPSUM BOARD ON EACH SIDE OF 3-5/8" METAL STUDS AT 16" O.C. EXTEND FROM TOP OF MASONRY TO ROOF DECK ABOVE APPROXIMATELY 14'-0" A.F.F.. FILL STUD CAVITIES WITH SOUND BATT INSULATION. PAINT FINISH EXPOSED MASONRY. REFER TO WALL SECTION 1/A6.0
2. INFILL PORTION OF EXISTING MASONRY WALL WITH FACE BRICK ON 8" CONCRETE MASONRY TO MATCH EXISTING WALL CONSTRUCTION. TOOTH NEW MASONRY AND BRICK INTO EXISTING, REFER TO WALL SECTIONS.
3. 8" REINFORCED CONCRETE MASONRY UNIT WALL. EXTEND FROM CONCRETE SLAB TO CONCRETE DECK ABOVE APPROXIMATELY 10'-0" A.F.F. PAINT FINISH
4. 5/8" GYPSUM BOARD ON EACH SIDE OF 3-5/8" METAL STUDS AT 16" O.C. EXTEND FROM CONCRETE SLAB TO ROOF DECK ABOVE, APPROXIMATELY 14'-0", FILL CAVITIES WITH SOUND BATT INSULATION. TAPE, SAND SMOOTH, PAINT FINISH BELOW CEILING LINE. REFER TO WALL SECTION 2/A6.0
5. 6" REINFORCED CONCRETE MASONRY UNIT WALL. EXTEND FROM CONCRETE SLAB TO MINIMUM 4" ABOVE FINISHED CEILING APPROXIMATELY 10'-8"
6. 4" CONCRETE MASONRY WALL. EXTEND FROM CONCRETE SLAB TO TO MINIMUM 4" ABOVE FINISHED CEILING, APPROXIMATELY 9'-4" A.F.F. COORDINATE WALL INSTALLATION WITH PLUMBING CONTRACTOR.
7. NOT USED.
8. 8" REINFORCED CONCRETE MASONRY UNIT WALL. EXTEND FROM CONCRETE SLAB TO 4" ABOVE TALLEST FINISHED CEILING (APPROXIMATELY) 10'-8" A.F.F. AT TOP OF MASONRY EXTEND UL U419 1 HOUR RATED WALL ASSEMBLY – (2) LAYERS 5/8" GYPSUM BOARD ON ONE SIDE OF 3-5/8" METAL STUDS AT 16" O.C. AND ONE LAYER OF 5/8" GYPSUM BOARD ON OPPOSITE SIDE OF STUDS. FILL STUD CAVITIES WITH BATT INSULATION. PAINT FINISH EXPOSED MASONRY. REFER TO SIMILAR WALL SECTION 1/A6.0
9. (2) LAYERS 5/8" GYPSUM BOARD ON ONE SIDE OF 3-5/8" METAL STUDS AT 16" O.C. AND ONE LAYER OF 5/8" GYPSUM BOARD ON OPPOSITE SIDE OF STUDS. FILL STUD CAVITIES WITH BATT INSULATION. EXTEND WALL FROM CONCRETE SLAB TO ROOF DECK ABOVE APPROXIMATELY 14'-0" A.F.F. UL-419 1 HOUR RATED WALL ASSEMBLY. PAINT FINISH.
10. INSTALL NEW 8" CONCRETE MASONRY WALL. EXTEND FROM CONCRETE SLAB TIGHT TO BOTTOM OF STEEL BEAM ABOVE, MATCH EXISTING ADJACENT MASONRY WALL. APPROXIMATELY 14'-0" A.F.F.. FIELD VERIFY, REFER TO WALL SECTIONS. TOOTH NEW MASONRY INTO EXISTING ADJACENT.
11. 4" CONCRETE MASONRY, EXTEND FROM CONCRETE SLAB TO MINIMUM 4" ABOVE FINISHED CEILING. APPROXIMATELY 10'-4" A.F.F. PAINT FINISH.
12. 3 LAYERS 5/8" GYPSUM BOARD ON 3-5/8" METAL STUDS AT 16" O.C. INSTALL TIGHT TO EXISTING MASONRY WALL. EXTEND FROM CONCRETE SLAB TO ROOF DECK ABOVE, APPROXIMATELY 14'-0" A.F.F. TAPE, SAND SMOOTH, PAINT FINISH. FIRE CAULK ANY GAPS AT ROOF DECK

FLOOR PLAN AREA 'A'

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

N

ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8100 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

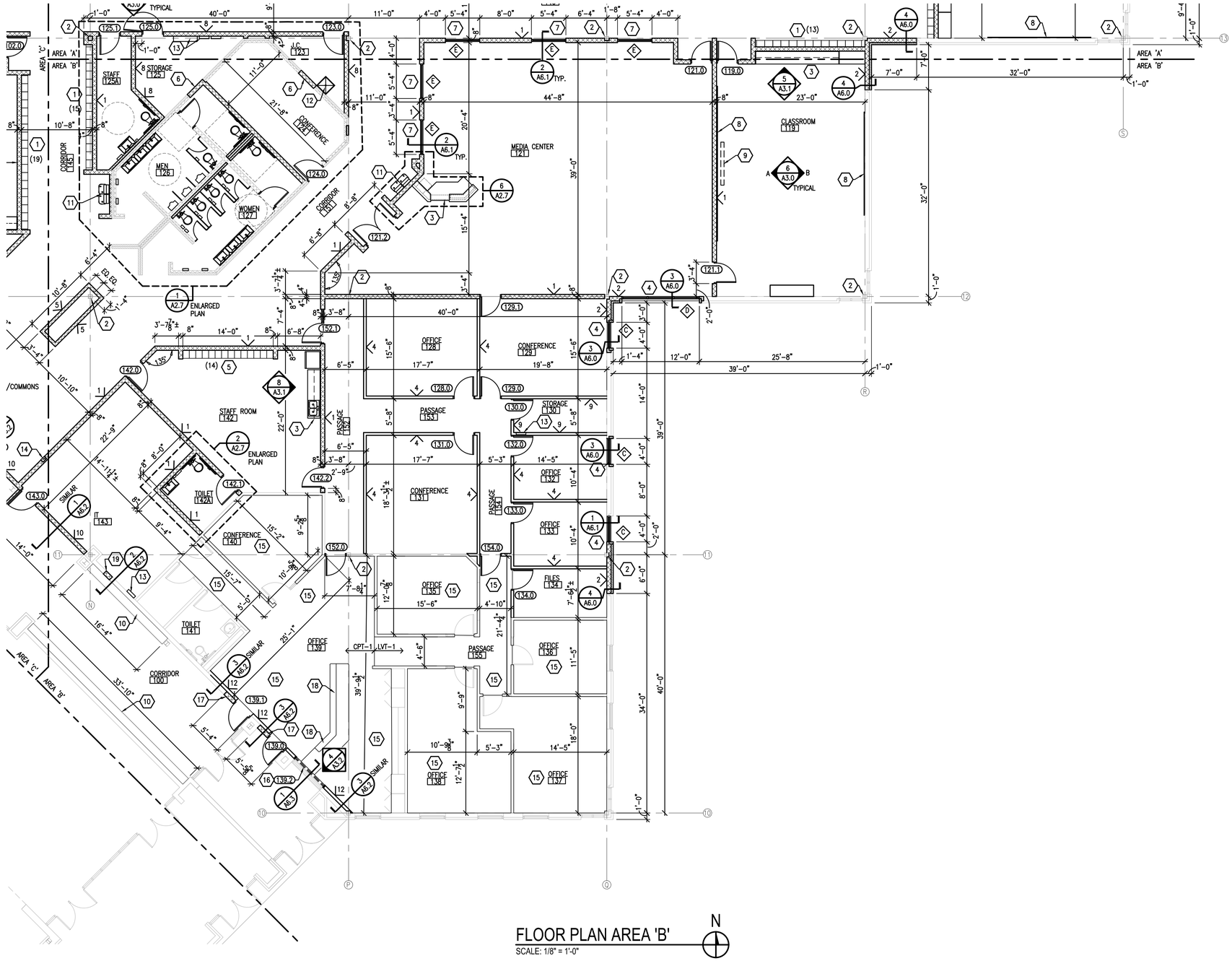
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

BY	DATE
DESIGN	--
DRAWN	--
CHECKED	--
APPROVED	--

FLOOR PLAN
AREA 'A'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A2.0



FLOOR PLAN AREA 'B'

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

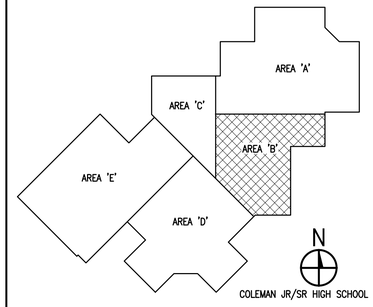
⬡ KEYNOTES ⬡

1. PRE-FINISHED 15" WIDE X 12" DEEP X 6'-0" HIGH METAL LOCKERS ON METAL LOCKER BASE, PROVIDE SLOPED TOPS. REFER TO TYPICAL LOCKER ELEVATION. UNLESS NOTED OTHERWISE CENTER LOCKERS IN RECESS, PROVIDE AND INSTALL FILLER PANELS AS NEEDED AT EACH END.
2. EXISTING 8x8 STEEL COLUMN TO REMAIN. PAINT FINISH ANY EXPOSED SURFACES.
3. PLASTIC LAMINATE COUNTERTOPS AND CASEWORK, REFER TO INTERIOR ELEVATIONS.
4. ALUMINUM WINDOW UNIT, REFER TO WINDOW SCHEDULE.
5. PRE-FINISHED 12" WIDE X 15" DEEP X 6'-0" HIGH METAL LOCKERS ON METAL LOCKER BASE, PROVIDE SLOPED TOPS. REFER TO TYPICAL LOCKER ELEVATION. UNLESS NOTED OTHERWISE CENTER LOCKERS IN RECESS, PROVIDE AND INSTALL FILLER PANELS AS NEEDED AT EACH END.
6. INFILL EXISTING MASONRY OPENING WHERE DOOR PREVIOUSLY REMOVED WITH 8" CONCRETE MASONRY, TOOTH NEW 8" MASONRY INTO EXISTING ON 4" MASONRY SIDE. PAINT FINISH.
7. HOLLOW METAL FRAME AND GLAZING. REFER TO WINDOW SCHEDULE.
8. MARKER BOARD/TACK BOARD. PER CLASSROOM: (4) 8'-0"X4'-0" MARKER BOARDS, (2) 4'-0"X4'-0" TACK BOARDS. REFER TO INTERIOR ELEVATIONS.
9. WALL MOUNTED PROJECTION SCREEN AND BRACKETS, REFER TO SPECIFICATIONS.
10. PATCH AND REPAIR EXISTING CONCRETE SLAB WHERE LOCKER BASES PREVIOUSLY REMOVED. PATCH WITH BASE OF CONCRETE TO MATCH ADJACENT CONCRETE THICKNESS, TOP WITH EPOXY TERRAZZO TO MATCH EXISTING PATTERN AND THICKNESS OF ADJACENT. FIELD VERIFY EXTENTS OF PATCHWORK.
11. HIGH/LOW DRINKING FOUNTAIN WITH BOTTLE FILLER, REFER TO PLUMBING.
12. FLOOR SINK, REFER TO PLUMBING PLANS.
13. ELECTRICAL PANEL, REFER TO POWER PLANS.
14. RECESSED FIRE EXTINGUISHER AND CABINET.
15. INSTALL NEW CARPETING, WALL BASE, AND WALL PAINT IN THIS ROOM. REFER TO ROOM FINISH SCHEDULE. PATCH AND REPAIR EXISTING GYPSUM BOARD AS NEEDED FOR SMOOTH PAINT FINISH.
16. INSTALL NEW FIRE SHUTTER AT EXISTING WINDOW UNIT. REFER TO SPECIFICATIONS. SHUTTER TO BE TIED TO FIRE ALARM SYSTEM.
17. INFILL PORTION OF EXISTING DOOR OPENING WHERE DOOR AND SIDE LIGHT PREVIOUSLY REMOVED. TOOTH NEW MASONRY INTO EXISTING ADJACENT. EXTEND FROM CONCRETE SLAB TO EXISTING LINTEL ABOVE APPROXIMATELY 7'-4" A.F.F.
18. REINSTALL EXISTING RECEPTION DESK, ADJUST LOCATION TO ACCOMMODATE NEW WALL CONSTRUCTION.
19. INFILL EXISTING CONCRETE MASONRY WALL WHERE THRU WALL VENT PREVIOUSLY REMOVED. TOOTH NEW MASONRY INTO EXISTING. PAINT FINISH.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.
2. OWNER RESERVES FIRST RIGHT OF REFUSAL OF ANY ITEMS BEING REMOVED.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4488
FAX: (906)228-7324

BIRGHTON OFFICE:
8100 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

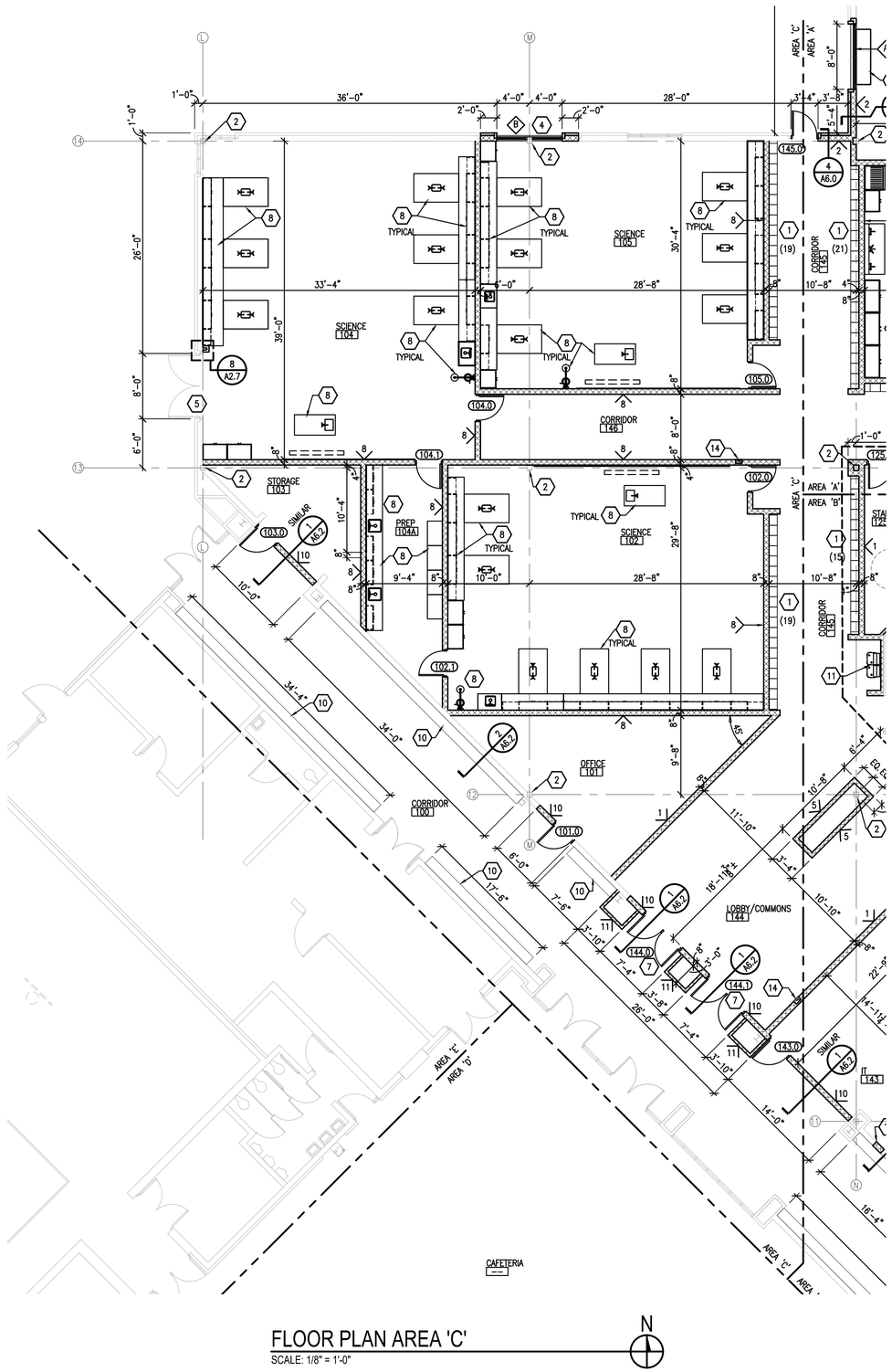
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

BY	DATE
DESIGN	--
DRAWN	--
CHECKED	--
APPROVED	--

DEMOLITION PLAN
AREA 'B'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A2.1



FLOOR PLAN AREA 'C'

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

N

KEYNOTES

1. PRE-FINISHED 15" WIDE X 12" DEEP X 6'-0" HIGH METAL LOCKERS ON METAL LOCKER BASE, PROVIDE SLOPED TOPS. REFER TO TYPICAL LOCKER ELEVATION. UNLESS NOTED OTHERWISE CENTER LOCKERS IN RECESS, PROVIDE AND INSTALL FILLER PANELS AS NEEDED AT EACH END.
2. EXISTING 8x8 STEEL COLUMN TO REMAIN. PAINT FINISH ANY EXPOSED SURFACES.
3. PLASTIC LAMINATE COUNTERTOPS AND CASEWORK, REFER TO INTERIOR ELEVATIONS.
4. ALUMINUM WINDOW UNIT, REFER TO WINDOW SCHEDULE.
5. EXISTING OVERSIZED HOLLOW METAL DOUBLE DOORS AND FRAME TO REMAIN. PAINT DOOR AND FRAME.
6. INFILL EXISTING MASONRY OPENING WHERE DOOR PREVIOUSLY REMOVED. MATCH EXISTING WALL CONSTRUCTION, 8" CONCRETE MASONRY, TOOTH NEW MASONRY INTO EXISTING. PAINT FINISH.
7. NEW ALUMINUM STORE FRONT AND GLAZING, REFER TO SCHEDULE.
8. SPECIALTY EQUIPMENT, CASEWORK WITH INTEGRAL SINKS AND FIXTURES, REFER TO SPECIALTY CASEWORK & EQUIPMENT DRAWINGS (SHEETS SP1.0 – SP1.12) AND SPECIFICATIONS.
9. NOT USED.
10. PATCH AND REPAIR EXISTING CONCRETE SLAB WHERE LOCKER BASES PREVIOUSLY REMOVED. PATCH WITH BASE OF CONCRETE TO MATCH ADJACENT CONCRETE THICKNESS, TOP WITH EPOXY TERRAZZO TO MATCH EXISTING PATTERN AND THICKNESS OF ADJACENT. FIELD VERIFY EXTENTS OF PATCHWORK.
11. HIGH/LOW DRINKING FOUNTAIN WITH BOTTLE FILLER, REFER TO PLUMBING.
12. NOT USED
13. NOT USED.
14. RECESSED FIRE EXTINGUISHER AND CABINET.

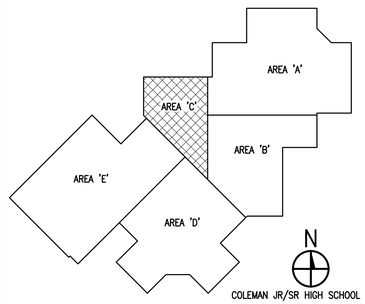
LOCKER COUNT TEMP

LOCKER COUNTS
- 12" WIDE x 15" DEEP = 301 LOCKERS
- 15" WIDE x 12" DEEP = 238 LOCKERS

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.
2. OWNER RESERVES FIRST RIGHT OF REFUSAL OF ANY ITEMS BEING REMOVED.
3. CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7324

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

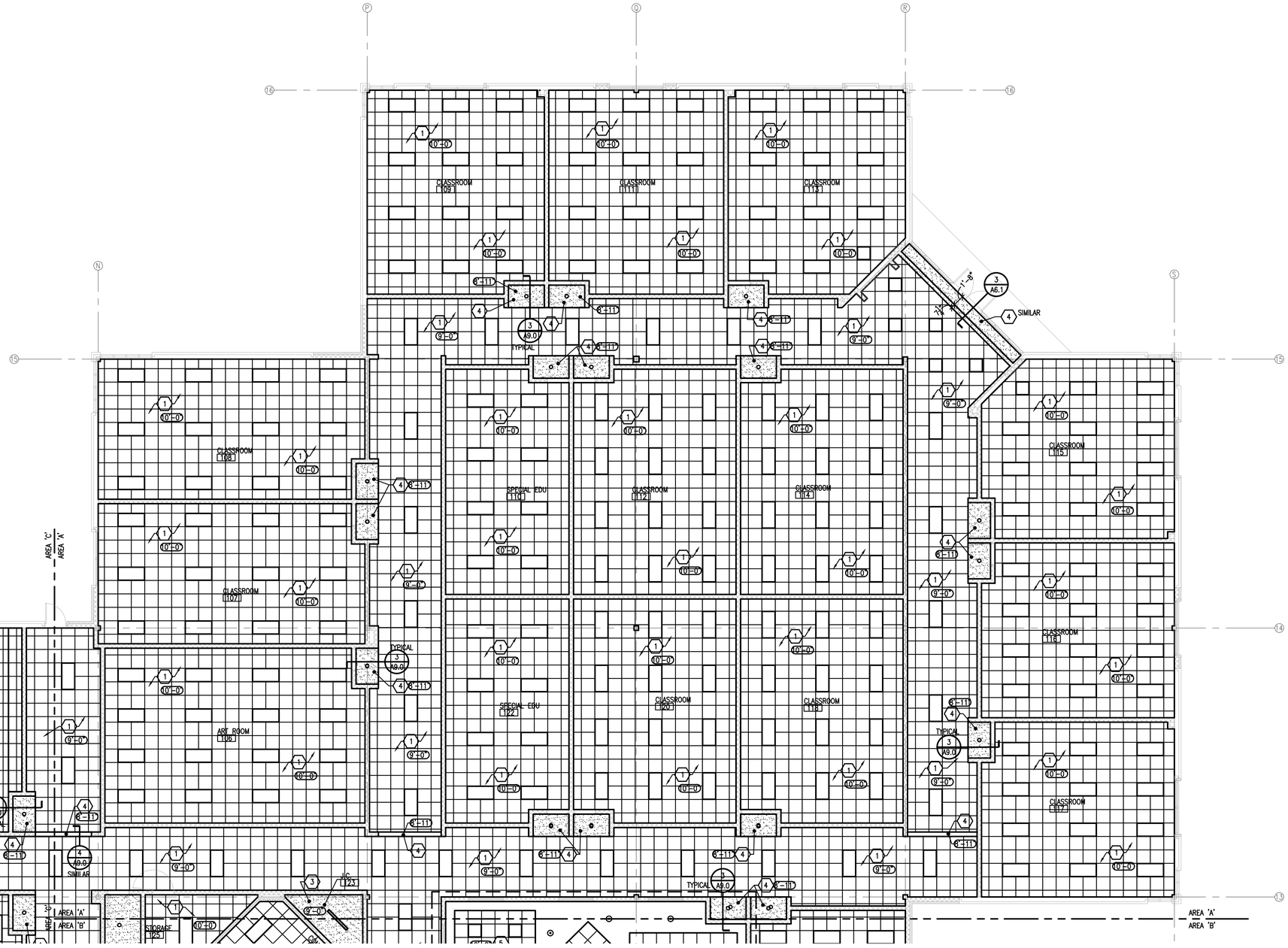
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

FLOOR PLAN
AREA 'C'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A2.2



CEILING PLAN AREA 'A'

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

KEYNOTES

1. 2x2 ACOUSTICAL CEILING TILE IN SUSPENDED METAL GRID SYSTEM.
2. NOT USED.
3. 5/8" GYPSUM BOARD ON METAL GRID SUSPENSION SYSTEM. TAPE, SAND SMOOTH, PAINT FINISH PT-1.
4. 5/8" GYPSUM BOARD ON METAL STUD FRAMING AT 16" O.C. EXTEND/SUSPEND STUDS TO EXISTING STRUCTURE ABOVE. GYPSUM BOARD TO EXTEND MINIMUM 4" ABOVE ADJACENT ACOUSTICAL CEILING. TAPE, SAND SMOOTH, PAINT FINISH PT-1. REFER TO 3/A9.0.

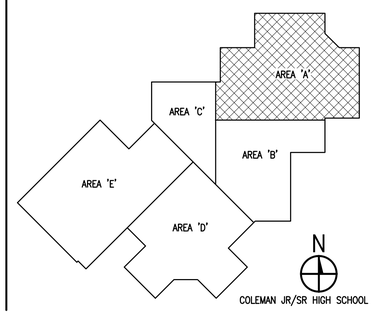
SYMBOL LEGEND

- 9'-0" HEIGHT OF FINISHED CEILING ABOVE FINISH FLOOR
- 2X2 ACOUSTICAL CEILING TILES IN SUSPENDED METAL GRID
- 5/8" GYPSUM BOARD ON 3-5/8" METAL STUDS AT 16" O.C. OR ON SUSPENDED METAL GRID SYSTEM. REFER TO KEYNOTES.
- MECHANICAL HVAC SUPPLY DIFFUSER, REFER TO MECHANICAL PLANS
- MECHANICAL HVAC RETURN GRILLE, REFER TO MECHANICAL PLANS
- 2'x4' LIGHT FIXTURE, REFER TO LIGHTING PLANS
- 2'x2' LIGHT FIXTURE, REFER TO LIGHTING PLANS
- RECESSED CAN LIGHT FIXTURE, REFER TO LIGHTING PLANS
- 4'x5" LIGHTING FIXTURE, REFER TO LIGHTING PLANS

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4484
FAX: (906)228-7324
BIRGHTON OFFICE:
8711 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4797

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

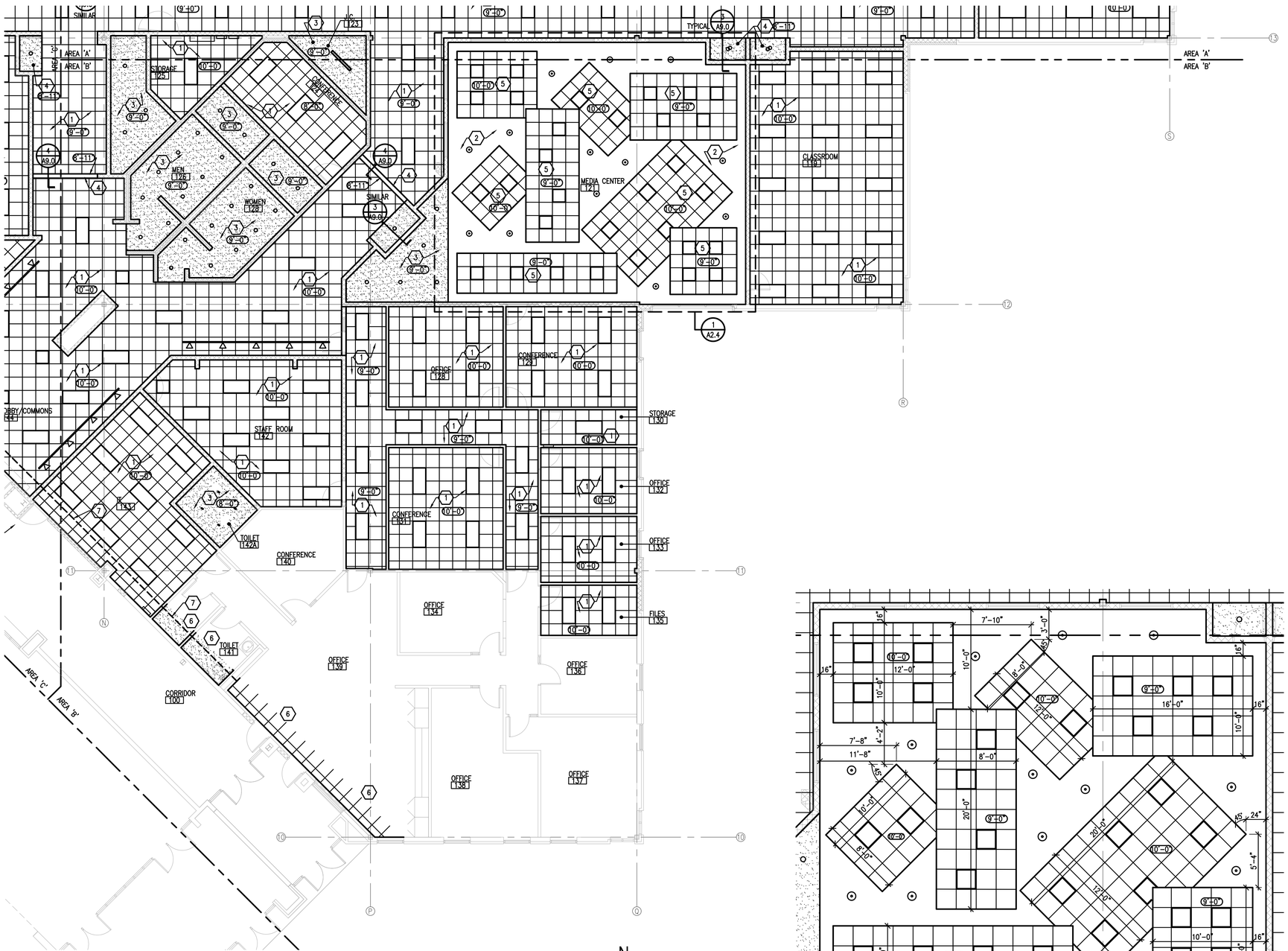
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN		
DRAWN		
CHECKED		
APPROVED		

CEILING PLAN
AREA 'A'

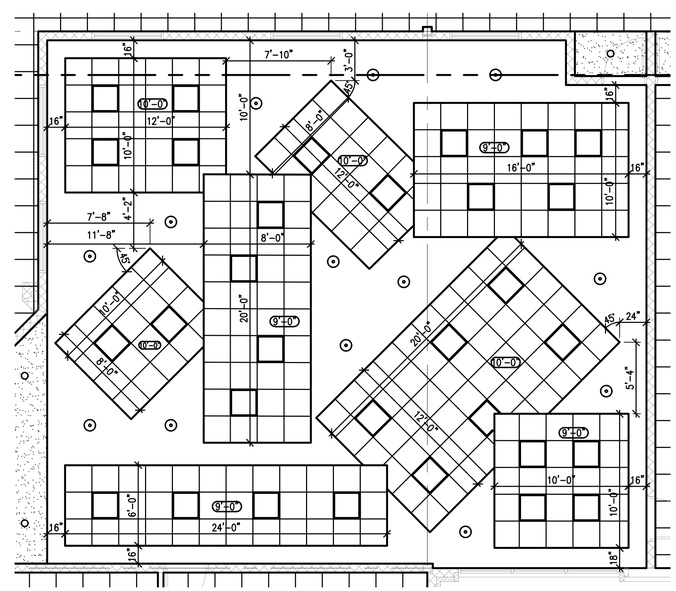
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A2.3



CEILING PLAN AREA 'B'

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



CEILING CLOUD POSITION PLAN

SCALE: 3/16" = 1'-0"

1 A2.4

KEYNOTES

1. 2x2 ACOUSTICAL CEILING TILE IN SUSPENDED METAL GRID SYSTEM.
2. OPEN TO STRUCTURE ABOVE. PAINT STRUCTURE FLAT BLACK.
3. 5/8" GYPSUM BOARD ON METAL GRID SUSPENSION SYSTEM. TAPE, SAND SMOOTH, PAINT FINISH.
4. 5/8" GYPSUM BOARD ON METAL STUD FRAMING AT 16" O.C. EXTEND/SUSPEND STUDS TO EXISTING STRUCTURE ABOVE. GYPSUM BOARD TO EXTEND MINIMUM 4" ABOVE ADJACENT ACOUSTICAL CEILING. TAPE, SAND SMOOTH, PAINT FINISH. REFER TO SECTIONS.
5. SUSPENDED CEILING 'CLOUDS' WITH 2x2 ACOUSTICAL CEILING TILES AND METAL GRID.
6. MODIFY, PATCH, REPAIR EXISTING CEILINGS AS NEEDED TO ACCOMMODATE NEW CONSTRUCTION. FIELD VERIFY CEILING TYPE AND EXTENTS.
7. DARK DASHED LINE INDICATES 1" SHAFTLINER COREBOARD (2-HOUR RATED ASSEMBLY) OVER 4" C-H METAL STUD SHAFTWALL FRAMING ABOVE CEILING TO RUN ENTIRE LENGTH OF CORRIDOR WALL. REFER TO WALL SECTIONS.

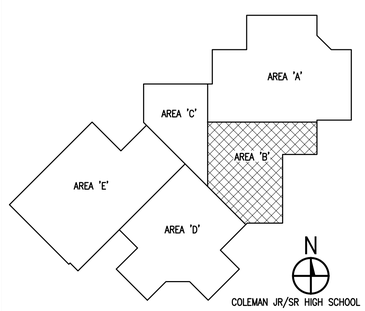
SYMBOL LEGEND

- 9'-0" HEIGHT OF FINISHED CEILING ABOVE FINISH FLOOR
- 2X2 ACOUSTICAL CEILING TILES IN SUSPENDED METAL GRID
- 5/8" GYPSUM BOARD ON 3-5/8" METAL STUDS AT 16" O.C. OR ON SUSPENDED METAL GRID SYSTEM. REFER TO KEYNOTES.
- MECHANICAL HVAC SUPPLY DIFFUSER, REFER TO MECHANICAL PLANS
- MECHANICAL HVAC RETURN GRILLE, REFER TO MECHANICAL PLANS
- 2'x4' LIGHT FIXTURE, REFER TO LIGHTING PLANS
- 2'x2' LIGHT FIXTURE, REFER TO LIGHTING PLANS
- RECESSED CAN LIGHT FIXTURE, REFER TO LIGHTING PLANS
- 4'x5" LIGHTING FIXTURE, REFER TO LIGHTING PLANS
- PENDENT LIGHTING FIXTURE, REFER TO LIGHTING PLANS

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

DI ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

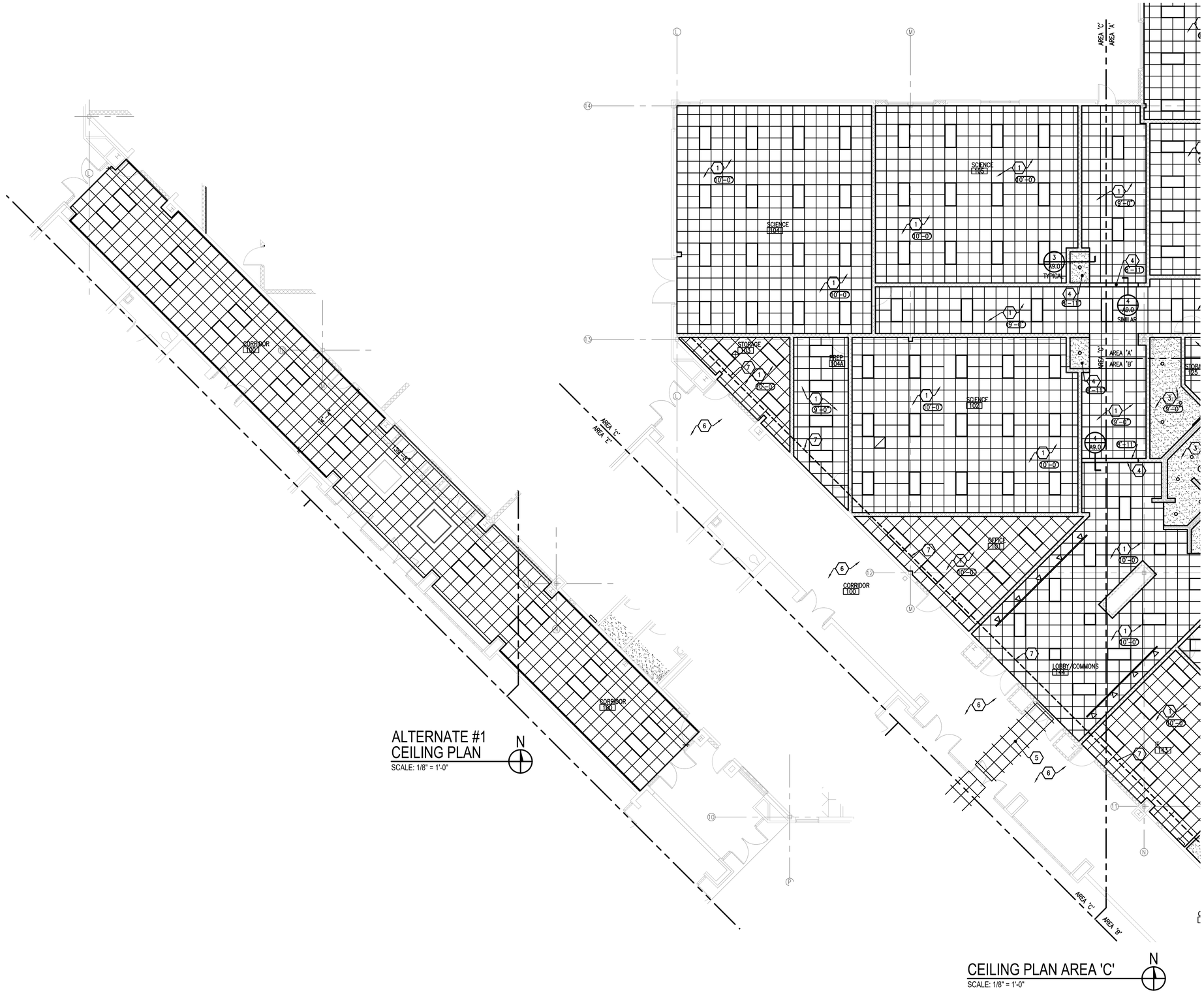
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	--	--
DRAWN	--	--
CHECKED	--	--
APPROVED	--	--

CEILING PLAN
AREA 'B'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A2.4



ALTERNATE #1
CEILING PLAN
SCALE: 1/8" = 1'-0"

CEILING PLAN AREA 'C'
SCALE: 1/8" = 1'-0"

KEYNOTES

1. 2x2 ACOUSTICAL CEILING TILE IN SUSPENDED METAL GRID SYSTEM.
2. NOT USED.
3. 5/8" GYPSUM BOARD ON METAL GRID SUSPENSION SYSTEM. TAPE, SAND SMOOTH, PAINT FINISH PT-1.
4. 5/8" GYPSUM BOARD ON METAL STUD FRAMING AT 16" O.C. EXTEND/SUSPEND STUDS TO EXISTING STRUCTURE ABOVE. GYPSUM BOARD TO EXTEND MINIMUM 4" ABOVE ADJACENT ACOUSTICAL CEILING. TAPE, SAND SMOOTH, PAINT FINISH PT-1. REFER TO SECTIONS.
5. REINSTALL PREVIOUSLY SALVAGED CEILING TILES AND GRID WHERE PREVIOUSLY REMOVED FOR ABOVE CEILING FIRE SPRINKLER WORK. COORDINATE WITH FIRE SPRINKLER CONTRACTOR. FIELD VERIFY EXTENTS.
6. UNLESS NOTED OTHERWISE AND/OR ALTERNATE ACCEPTED, CEILING SYSTEM IN THIS AREA TO REMAIN.
7. DARK DASHED LINE INDICATES 1" SHAFTLINER COREBOARD (2-HOUR RATED ASSEMBLY) OVER 4" C-H METAL STUD SHAFTWALL FRAMING ABOVE CEILING TO RUN ENTIRE LENGTH OF CORRIDOR WALL. REFER TO WALL SECTIONS.
8. ALTERNATE #1 – INSTALL 2x2 ACOUSTICAL CEILING TILE IN METAL GRID SYSTEM.
9. ALTERNATE #1 – EXISTING SKYLIGHT TO REMAIN. CLEAN AND PAINT ASSOCIATED TRIM AND LIGHT WELL SIDES.

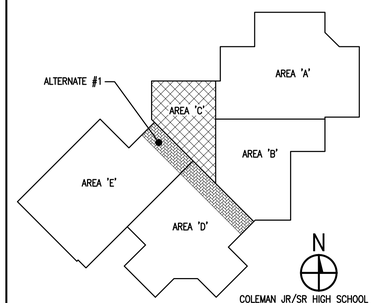
SYMBOL LEGEND

- 9'-0" HEIGHT OF FINISHED CEILING ABOVE FINISH FLOOR
- 2X2 ACOUSTICAL CEILING TILES IN SUSPENDED METAL GRID
- 5/8" GYPSUM BOARD ON 3-5/8" METAL STUDS AT 16" O.C. OR ON SUSPENDED METAL GRID SYSTEM. REFER TO KEYNOTES.
- MECHANICAL HVAC SUPPLY DIFFUSER, REFER TO MECHANICAL PLANS
- MECHANICAL HVAC RETURN GRILLE, REFER TO MECHANICAL PLANS
- 2'x4' LIGHT FIXTURE, REFER TO LIGHTING PLANS
- 2'x2' LIGHT FIXTURE, REFER TO LIGHTING PLANS
- RECESSED CAN LIGHT FIXTURE, REFER TO LIGHTING PLANS
- 4'x5" LIGHTING FIXTURE, REFER TO LIGHTING PLANS

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

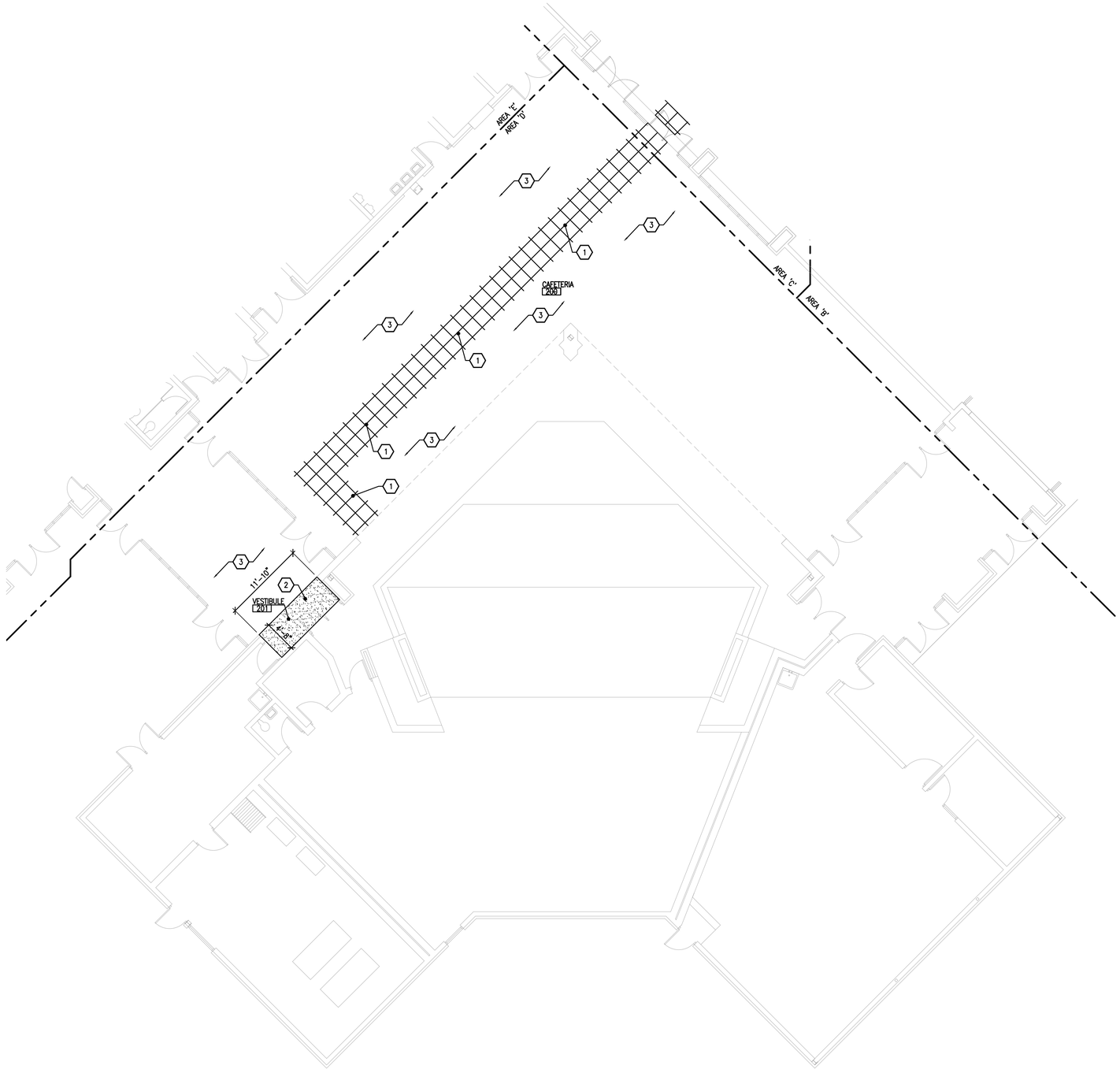
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

CEILING PLAN AREA 'C'
&
CEILING PLAN ALTERNATE #1

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A2.5



CEILING PLAN AREA 'D'
SCALE: 1/8" = 1'-0"

N

KEYNOTES

1. REINSTALL PREVIOUSLY SALVAGED CEILING TILES AND GRID WHERE PREVIOUSLY REMOVED FOR ABOVE CEILING FIRE SPRINKLER WORK. COORDINATE WITH FIRE SPRINKLER CONTRACTOR. FIELD VERIFY EXTENTS.
2. INSTALL 5/8" GYPSUM BOARD ON 3-5/8" METAL STUD FRAMING WHERE PINE CEILING PREVIOUSLY REMOVED. COORDINATE WITH FIRE SPRINKLER CONTRACTOR. CEILING HEIGHT TO MATCH HEIGHT OF PREVIOUSLY REMOVED CEILING. TAPE, SAND SMOOTH, PAINT FINISH PT-1.
3. UNLESS NOTED OTHERWISE, CEILING SYSTEM IN THIS AREA TO REMAIN.

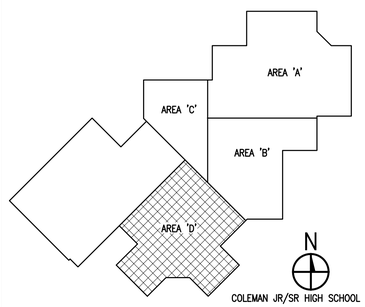
SYMBOL LEGEND

- 9'-0" HEIGHT OF FINISHED CEILING ABOVE FINISH FLOOR
- 2X2 ACOUSTICAL CEILING TILES IN SUSPENDED METAL GRID
- 5/8" GYPSUM BOARD ON 3-5/8" METAL STUDS AT 16" O.C. OR ON SUSPENDED METAL GRID SYSTEM. REFER TO KEYNOTES.
- MECHANICAL HVAC SUPPLY DIFFUSER, REFER TO MECHANICAL PLANS
- MECHANICAL HVAC RETURN GRILLE, REFER TO MECHANICAL PLANS
- 2'x4' LIGHT FIXTURE, REFER TO LIGHTING PLANS
- 2'x2' LIGHT FIXTURE, REFER TO LIGHTING PLANS
- RECESSED CAN LIGHT FIXTURE, REFER TO LIGHTING PLANS
- 4'x5" LIGHTING FIXTURE, REFER TO LIGHTING PLANS

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, DARK LINES INDICATE NEW ITEMS AND/OR WORK TO BE PERFORMED. LIGHT SCREENED LINES INDICATE EXISTING ITEMS TO REMAIN.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

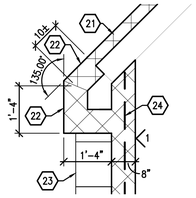
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

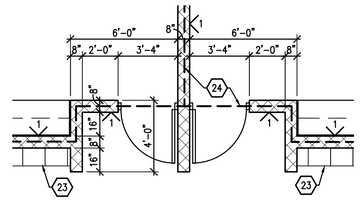
CEILING PLAN
AREA 'D'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

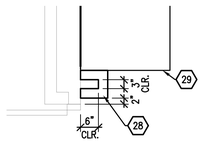
A2.6



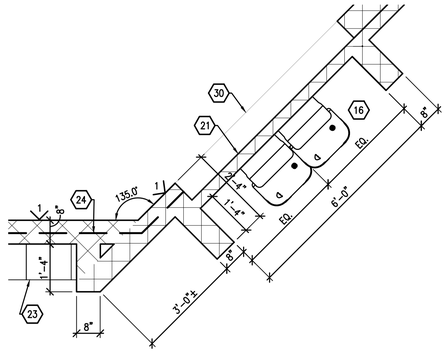
ENLARGED WALL CONFIGURATION (5 / A2.7)
SCALE: 1/2" = 1'-0"



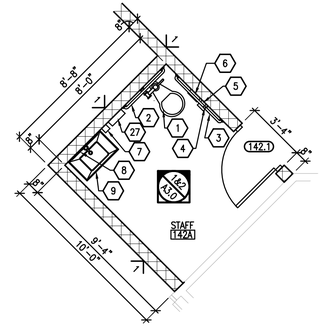
TYPICAL CLASSROOM ENTRY (3 / A2.7)
SCALE: 1/4" = 1'-0"



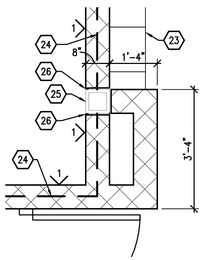
ENLARGED PLUMBING CHASE (8 / A2.7)
SCALE: 1/2" = 1'-0"



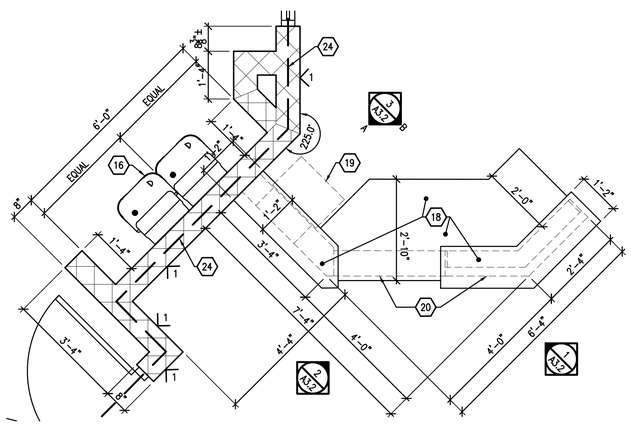
ENLARGED WALL CONFIGURATION (4 / A2.7)
SCALE: 1/2" = 1'-0"



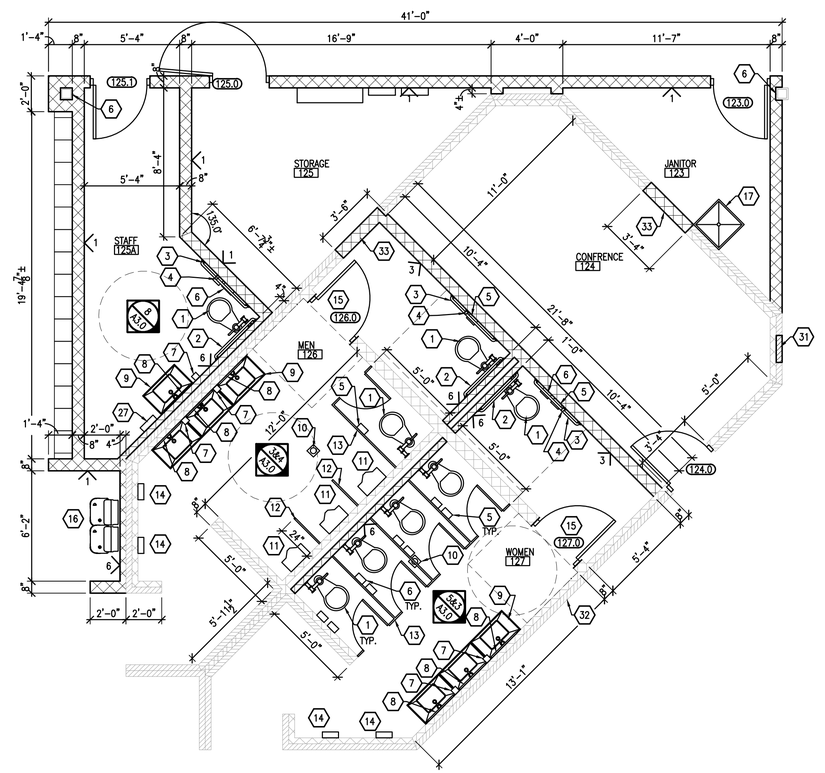
ENLARGED TOILET ROOM PLAN (2 / A2.7)
SCALE: 1/4" = 1'-0"



ENLARGED WALL CONFIGURATION (7 / A2.7)
SCALE: 1/2" = 1'-0"



ENLARGED MEDIA CENTER DESK & WALL CONFIGURATION (7 / A2.7)
SCALE: 1/2" = 1'-0"



ENLARGED FLOOR PLAN (1 / A2.7)
SCALE: 1/4" = 1'-0"

KEYNOTES

1. FLOOR MOUNTED TOILET, REFER TO PLUMBING PLANS.
2. 36" GRAB BAR.
3. 42" GRAB BAR
4. 18" GRAB BAR
5. TOILET TISSUE DISPENSER
6. SANITARY NAPKIN DISPOSAL
7. SOAP DISPENSER
8. MIRROR, CENTER ABOVE SINK/FAUCET
9. PRE-FABRICATED SINK UNIT WITH INTEGRAL SPLASH AND ADA COMPLIANT APRON, REFER TO PLUMBING PLANS.
10. FLOOR DRAIN, REFER TO PLUMBING.
11. WALL MOUNTED URINAL, REFER TO PLUMBING.
12. SOLID PLASTIC URINAL SCREEN
13. SOLID PLASTIC TOILET PARTITIONS
14. ELECTRIC HAND DRYER, REFER TO ELECTRICAL PLANS.
15. SPECIALTY STALL DOOR, REFER TO DOOR SCHEDULE
16. HIGH/LOW DRINKING FOUNTAIN WITH BOTTLE FILLER. REFER TO PLUMBING PLANS.
17. MOP SINK, REFER TO PLUMBING PLAN.
18. SOLID SURFACE COUNTERTOP, REFER TO FINISH SCHEDULE.
19. BOOK RETURN CART BY OWNER.
20. DASHED LINES INDICATE PLASTIC LAMINATE ON 3/4" PLYWOOD BELOW.
21. NEW 4" MASONRY VENEER ON EXISTING 8" CONCRETE MASONRY WALL. EXTEND VENEER TO MINIMUM 4" ABOVE FINISHED CEILING, APPROXIMATELY 9'-4" A.F.F.
22. NEW FACE BRICK ON CORRIDOR SIDE OF WALL TYPE 1. TOOTH NEW FACE BRICK AND 8" CONCRETE MASONRY INTO EXISTING FACE BRICK AND 8" CONCRETE MASONRY. FACE BRICK TO MATCH EXISTING.
23. NEW LOCKERS ON CONCRETE LOCKER BASE, REFER TO FLOOR PLANS.
24. DASHED LINE INDICATES PATH OF FULL HEIGHT WALL TYPE #1. AT MASONRY EXTENSIONS AND WING WALLS, METAL STUDS AND GYPSUM BOARD AT TOP OF MASONRY WALL MAY BE OMITTED.
25. EXISTING 8x8 STEEL COLUMN. PAINT FINISH ANY EXPOSED SURFACES.
26. IN VISIBLE LOCATIONS, INSTALL BACKER ROD AND SEALANT WHERE MASONRY ABUTS STEEL COLUMN.
27. PAPER TOWEL DISPENSER.
28. PLUMBING CHASE, 5/8" GYPSUM BOARD ON 3 EXPOSED SIDES OF 2-1/2" METAL STUDS. MAINTAIN INTERIOR CLEARANCE SHOWN. EXTEND FROM FLOOR SLAB TO MINIMUM 4" ABOVE FINISHED CEILING APPROXIMATELY 10'-4" A.F.F. COORDINATE WITH PLUMBING CONTRACTOR. PAINT FINISH.
29. NEW COUNTERTOP AND CABINETRY.
30. EXISTING MASONRY WALL. TOOTH NEW MASONRY INTO EXISTING.
31. PATCH/INFILL EXISTING WALL OPENING WHERE ELECTRICAL PANEL PREVIOUSLY REMOVED. INFILL WITH PREVIOUSLY SALVAGED FACE BRICK, TOOTH INTO EXISTING ADJACENT. FIELD VERIFY EXTENTS.
32. PATCH AND REPAIR FACE BRICK AS NEEDED WHERE DRINKING FOUNTAIN PREVIOUSLY REMOVED. FIELD VERIFY EXTENTS. USE PREVIOUSLY SALVAGED FACE BRICK AS NEEDED.
33. INFILL EXISTING MASONRY OPENING WHERE DOOR PREVIOUSLY REMOVED WITH 8" CONCRETE MASONRY, TOOTH NEW 8" MASONRY INTO EXISTING ON 4" MASONRY SIDE. PAINT FINISH.

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8317 MACDONALD PARK AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

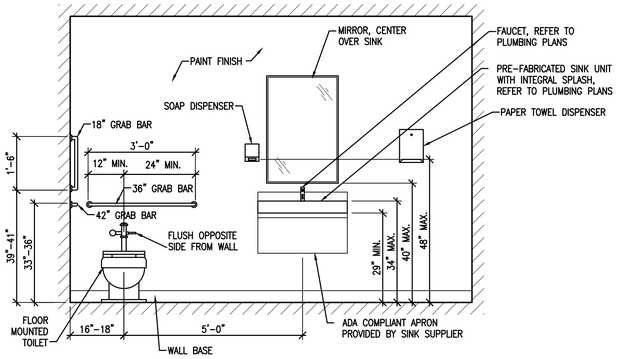
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-28-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

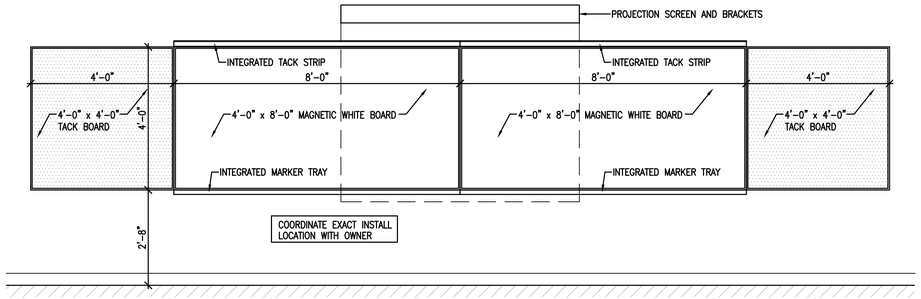
ENLARGED PLANS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

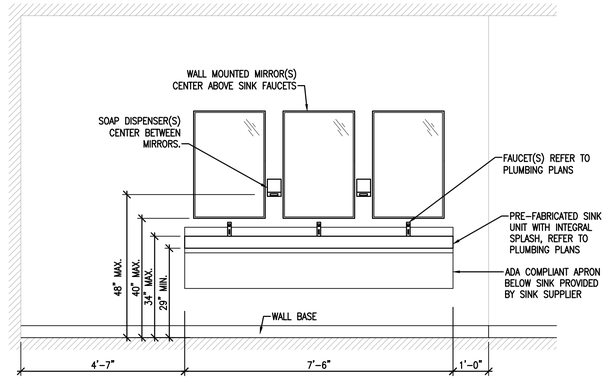
A2.7



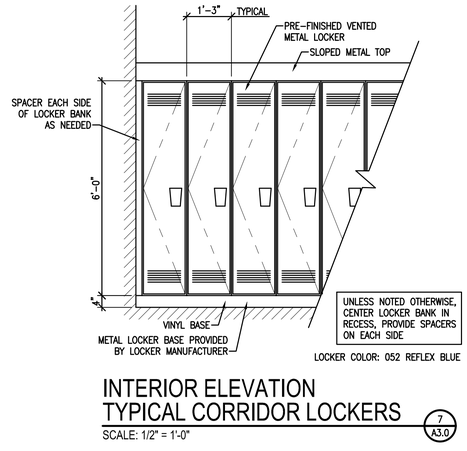
INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"
8 A3.0



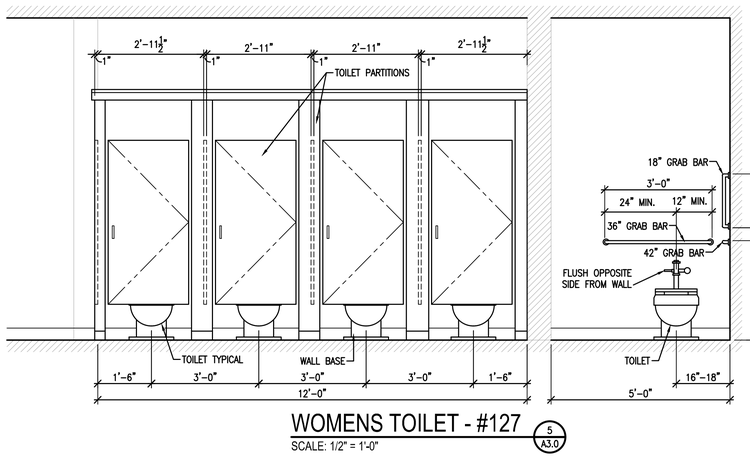
INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"
6A A3.0



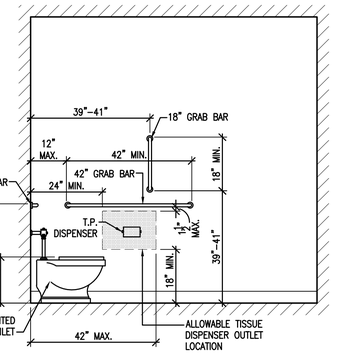
MENS & WOMENS TOILET - #126 & #127
SCALE: 1/2" = 1'-0"
REVERSE AT MENS #126
3 A3.0



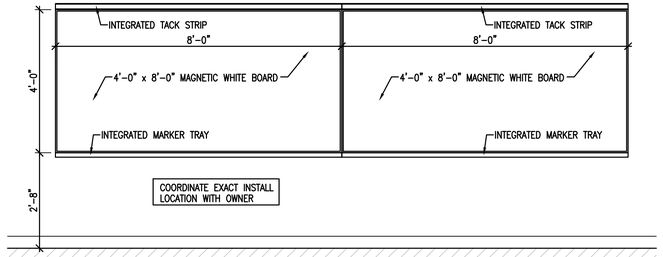
INTERIOR ELEVATION
TYPICAL CORRIDOR LOCKERS
SCALE: 1/2" = 1'-0"
7 A3.0



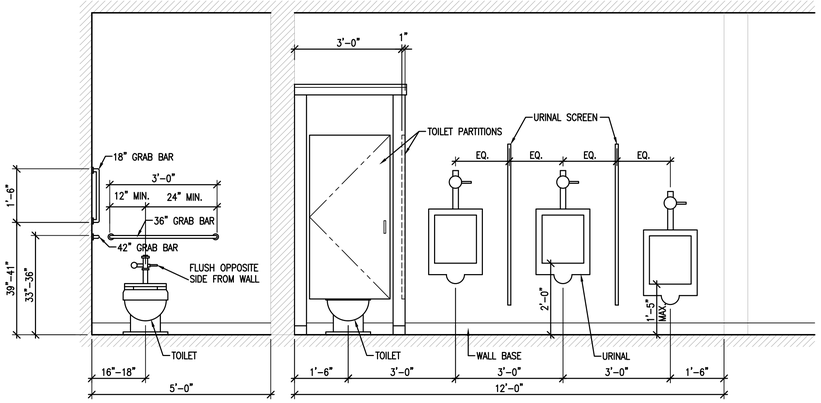
WOMENS TOILET - #127
SCALE: 1/2" = 1'-0"
5 A3.0



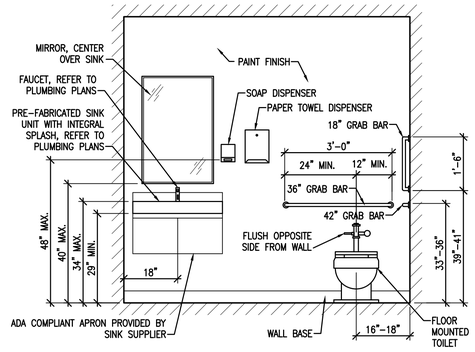
STAFF TOILET - #142A
SCALE: 1/2" = 1'-0"
2 A3.0



INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"
6B A3.0



MENS TOILET - #126
SCALE: 1/2" = 1'-0"
4 A3.0



STAFF TOILET - #142A
SCALE: 1/2" = 1'-0"
1 A3.0

DESIGN BY: ---
DRAWN BY: ---
CHECKED BY: ---
APPROVED DATE: ---

DI ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRCHTON OFFICE:
2301 W. BIG BEAVER AVE., SUITE 600
BIRCHTON, MI 48015
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

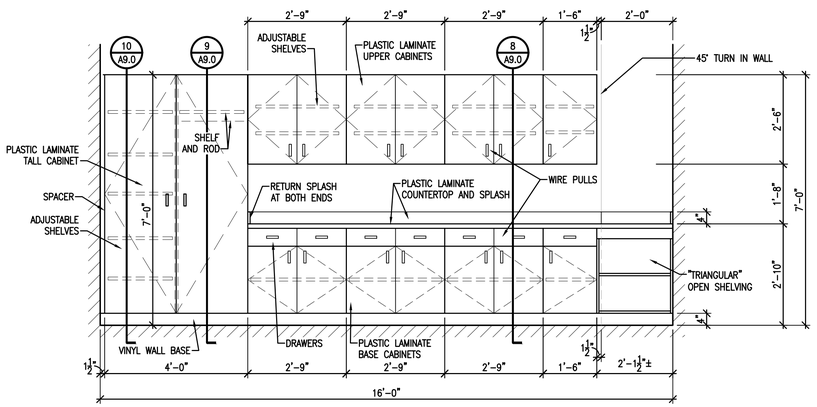
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-28-25
0	FOR CONSTRUCTION	11-5-25

INTERIOR ELEVATIONS

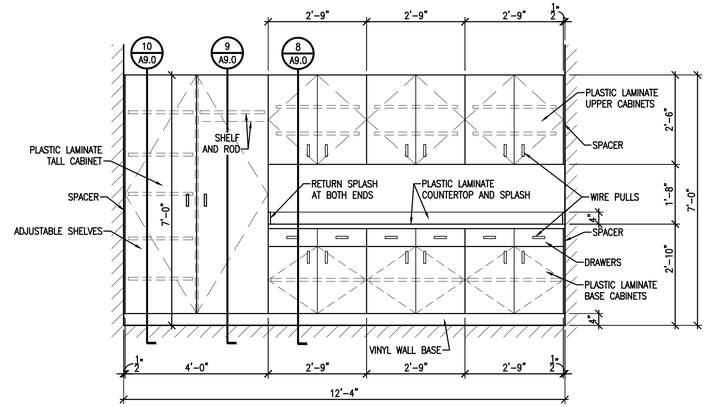
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A3.0

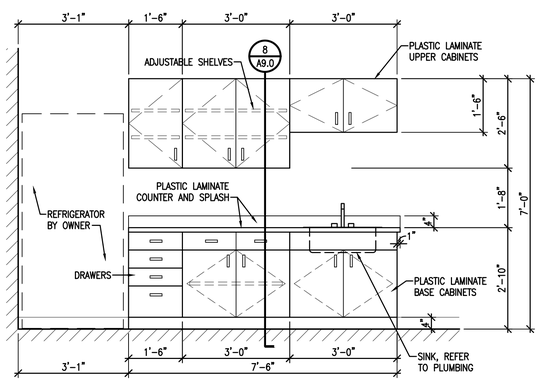
REFER TO CODE TO FINISH SCHEDULE FOR MORE INFORMATION:
TYPICAL UNLESS NOTED OTHERWISE
ALL COUNTERTOPS TO BE PLASTIC LAMINATE PL-1
ALL CASEWORK/CABINETS TO BE PLASTIC LAMINATE PL-2



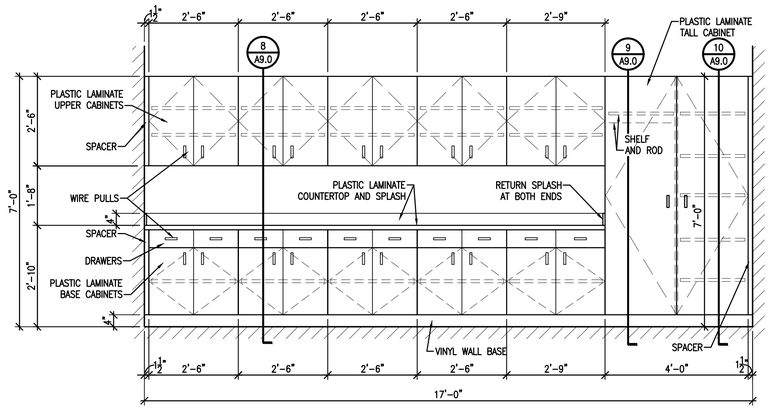
INTERIOR ELEVATION (7 / A3.1)
SCALE: 1/2" = 1'-0"



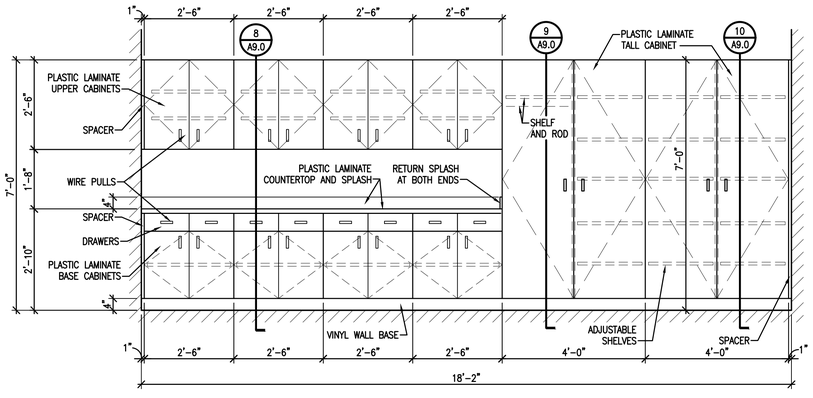
INTERIOR ELEVATION (3 / A3.1)
SCALE: 1/2" = 1'-0"



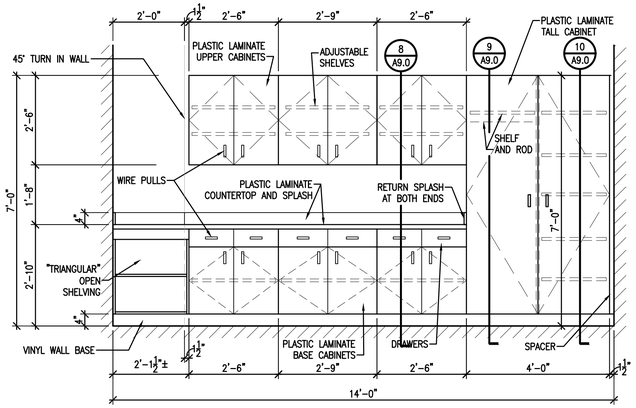
INTERIOR ELEVATION (8 / A3.1)
SCALE: 1/2" = 1'-0"



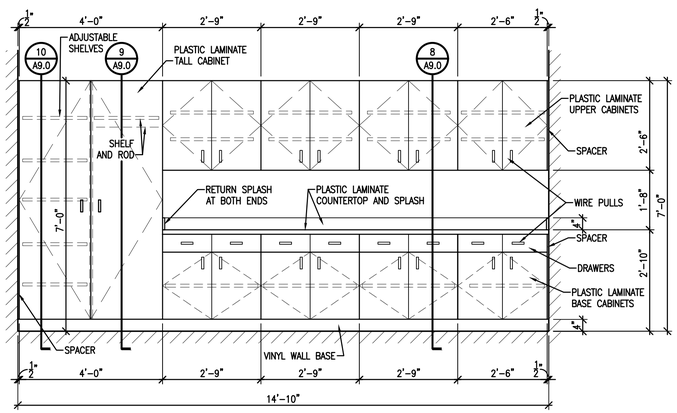
INTERIOR ELEVATION (5 / A3.1)
SCALE: 1/2" = 1'-0"



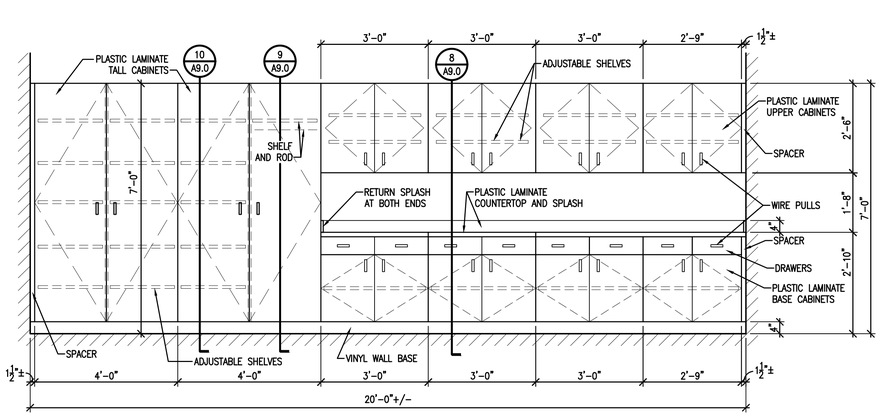
INTERIOR ELEVATION (2 / A3.1)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION (7 / A3.1)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION (4 / A3.1)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION (1 / A3.1)
SCALE: 1/2" = 1'-0"

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BIRGHTON OFFICE:
8720 LAKE CHEMUNG AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

DI ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

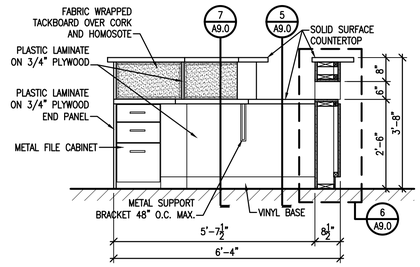
NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN		
DRAWN		
CHECKED		
APPROVED		

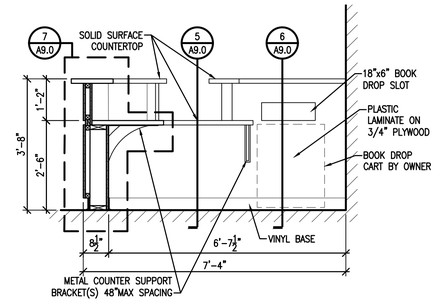
INTERIOR ELEVATIONS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

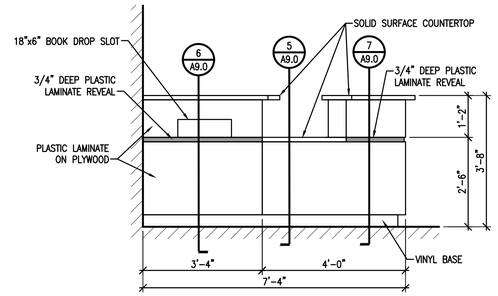
A3.1



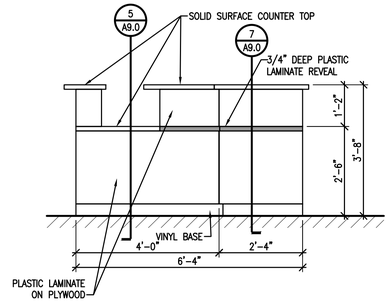
INTERIOR ELEVATION (3B A3.2)
SCALE: 1/2" = 1'-0"



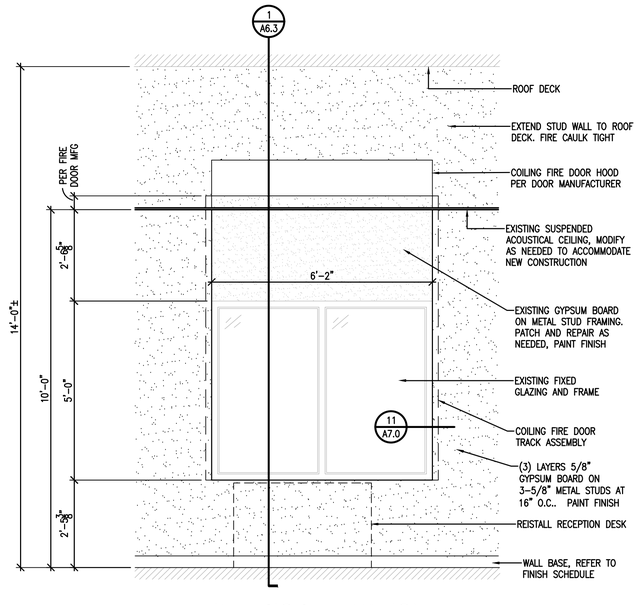
INTERIOR ELEVATION (3A A3.2)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION (2 A3.2)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION (1 A3.2)
SCALE: 1/2" = 1'-0"



INTERIOR ELEVATION (4 A3.2)
SCALE: 1/2" = 1'-0"

REFER TO CODE TO FINISH SCHEDULE FOR MORE INFORMATION:
TYPICAL UNLESS NOTED OTHERWISE
ALL COUNTERTOPS TO BE PLASTIC LAMINATE PL-1
ALL CASEWORK TO BE PLASTIC LAMINATE PL-2

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4797

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

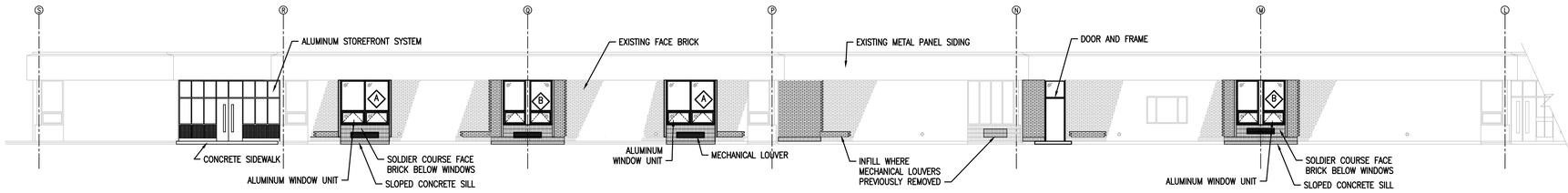
NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	10-30-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

INTERIOR ELEVATIONS

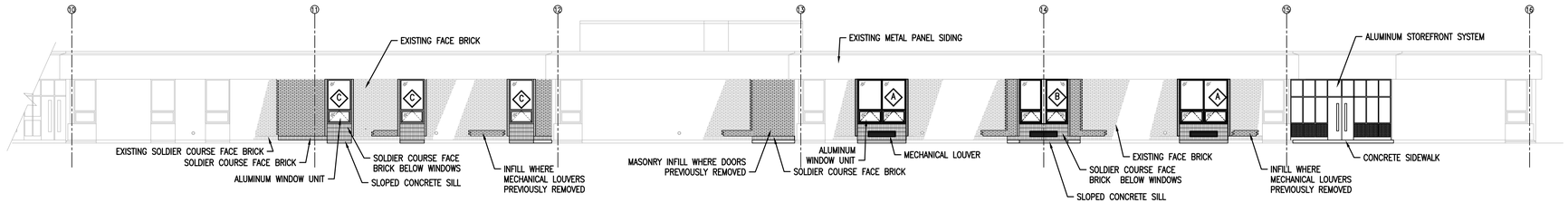
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A3.2



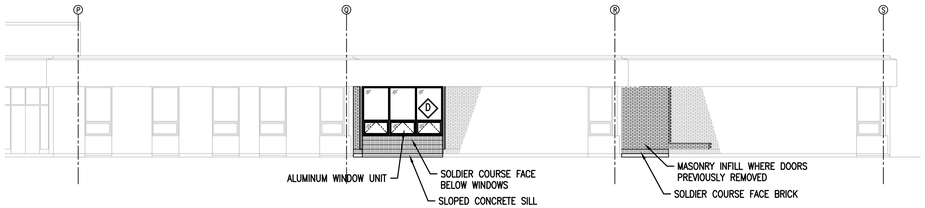
EXTERIOR ELEVATION - NORTH

SCALE: 3/32" = 1'-0"



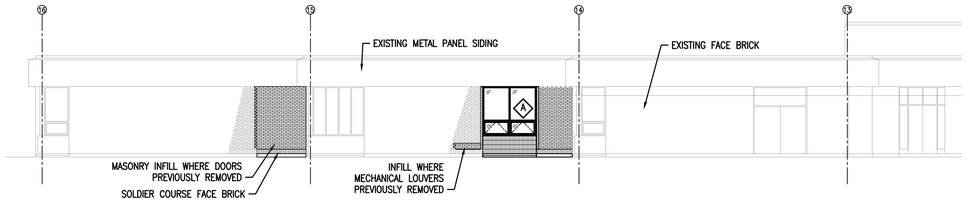
EXTERIOR ELEVATION - EAST

SCALE: 3/32" = 1'-0"



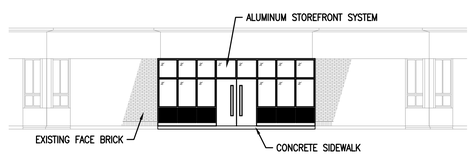
EXTERIOR ELEVATION - SOUTH

SCALE: 3/32" = 1'-0"



EXTERIOR ELEVATION - WEST

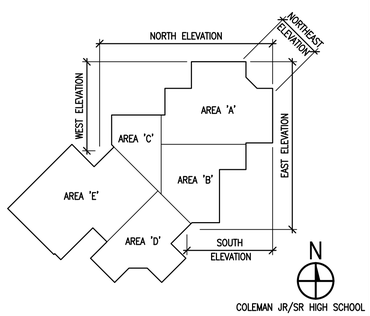
SCALE: 3/32" = 1'-0"



EXTERIOR ELEVATION - NORTHEAST

SCALE: 3/32" = 1'-0"

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524
BRIGHTON OFFICE:
8371 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

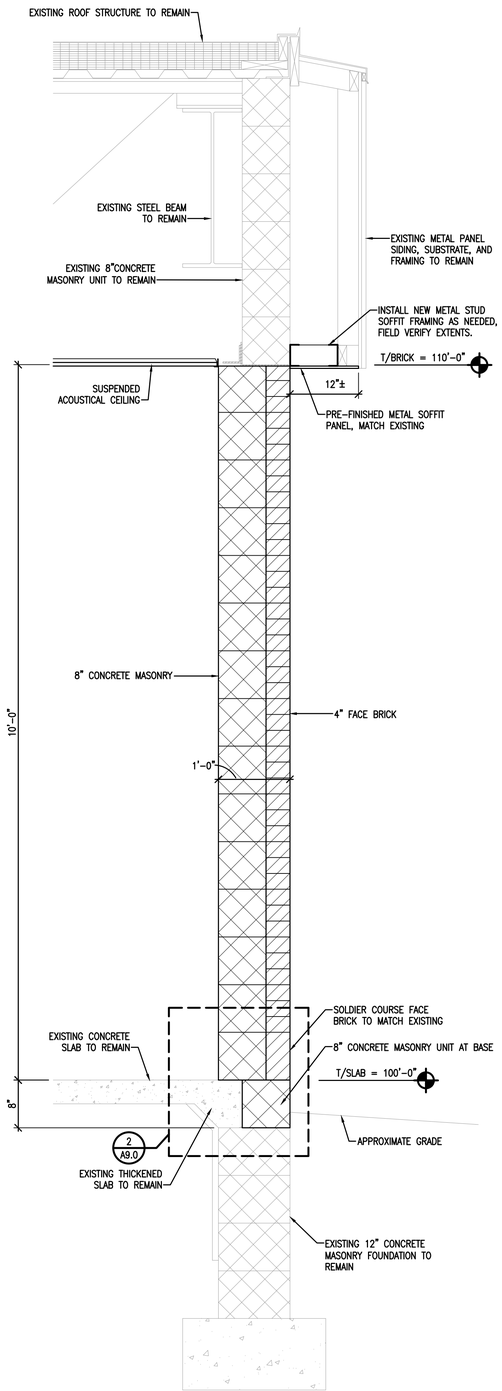
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	4-28-25
B	DESIGN DEVELOP	7-26-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

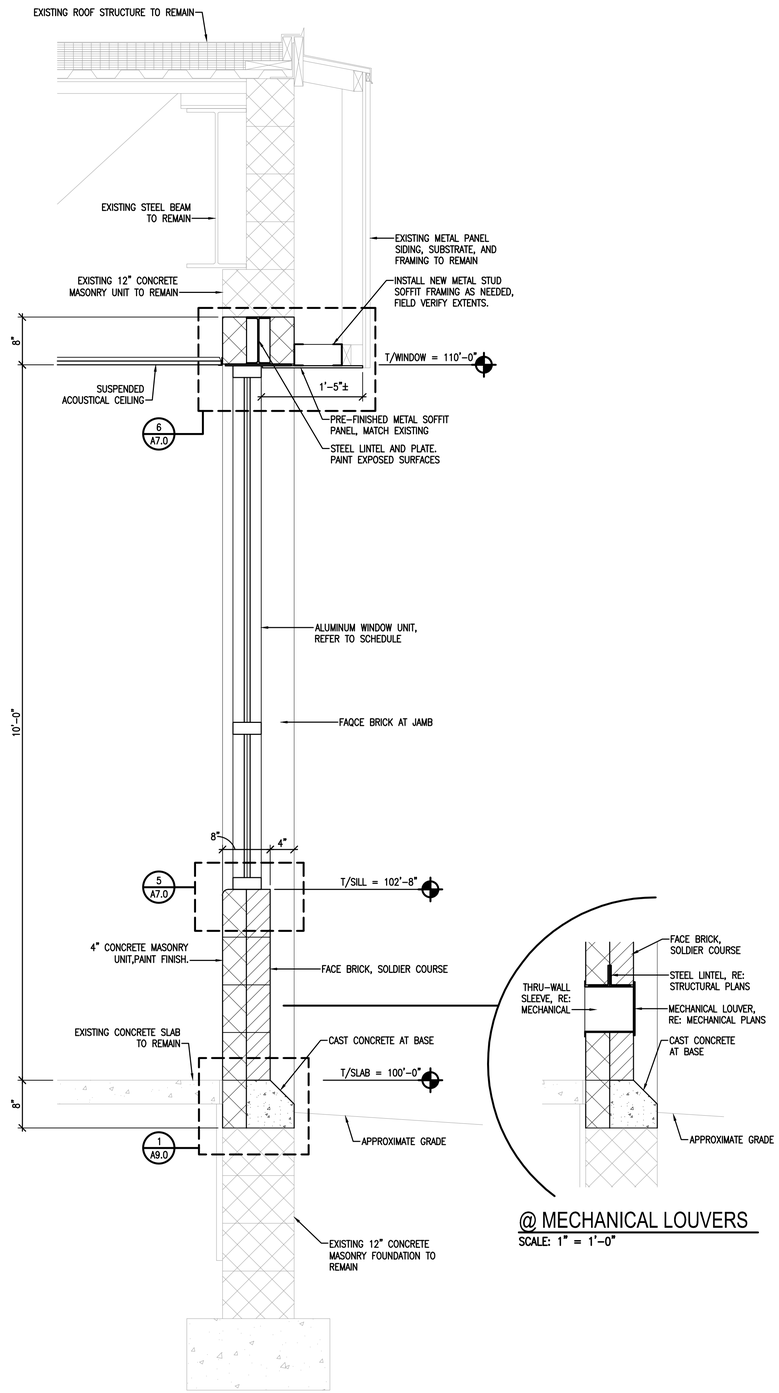
EXTERIOR ELEVATIONS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A4.0

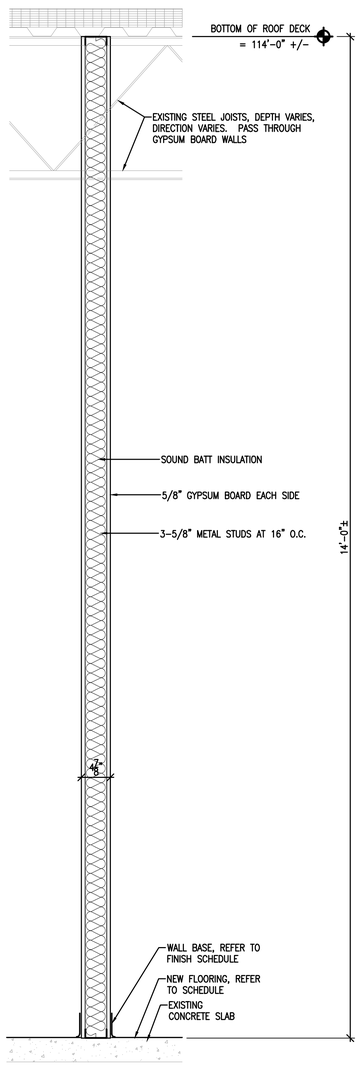


WALL SECTION
SCALE: 1" = 1'-0"
4 A6.0

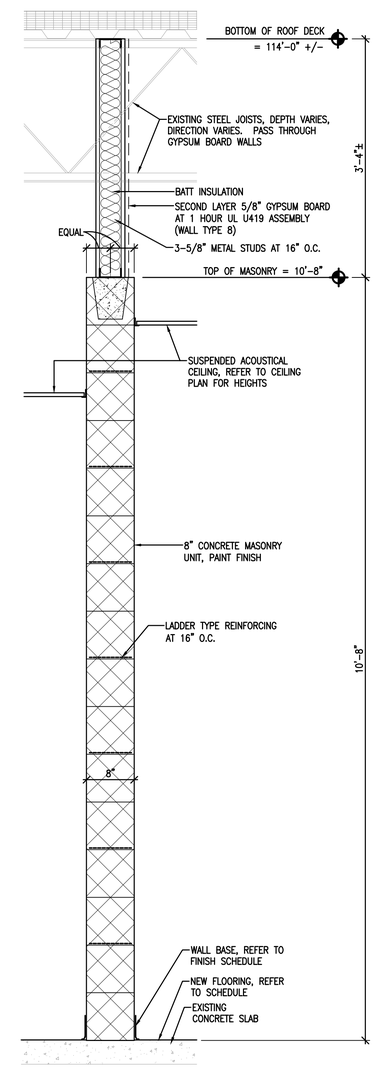


WALL SECTION
SCALE: 1" = 1'-0"
3 A6.0

@ MECHANICAL LOUVERS
SCALE: 1" = 1'-0"



WALL TYPE #4
TYPICAL GYPSUM/STUD PARTITION
SCALE: 1" = 1'-0"
2 A6.0



WALL TYPE #1
TYPICAL MASONRY PARTITION
SCALE: 1" = 1'-0"
1 A6.0

DI ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324
BIRGHTON OFFICE:
8201 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

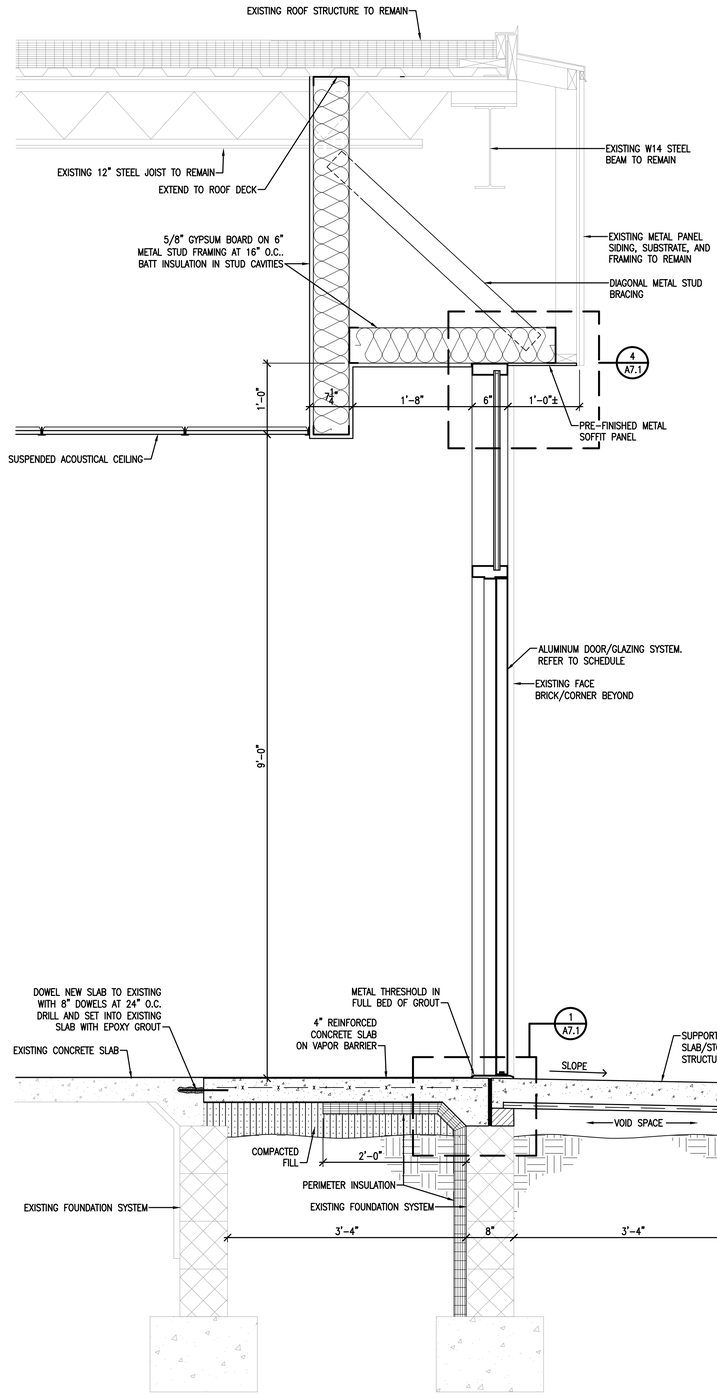
NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

BY	DATE
DESIGN	
DRAWN	
CHECKED	
APPROVED	

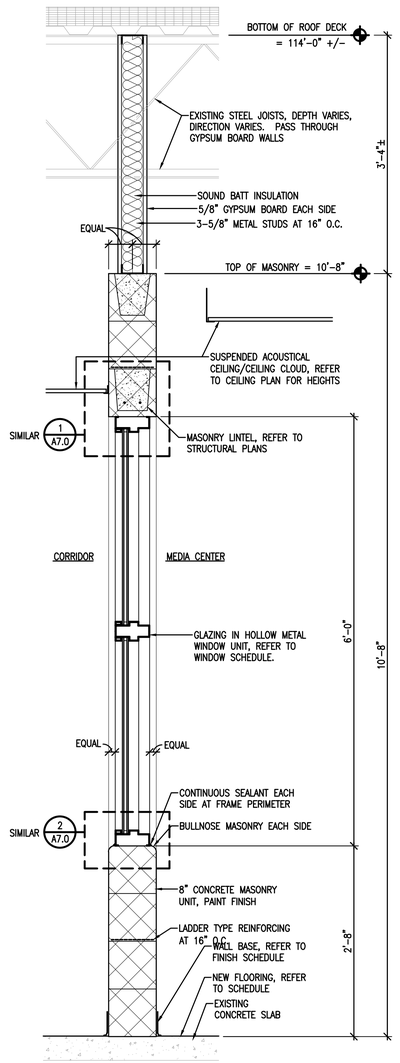
WALL SECTIONS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

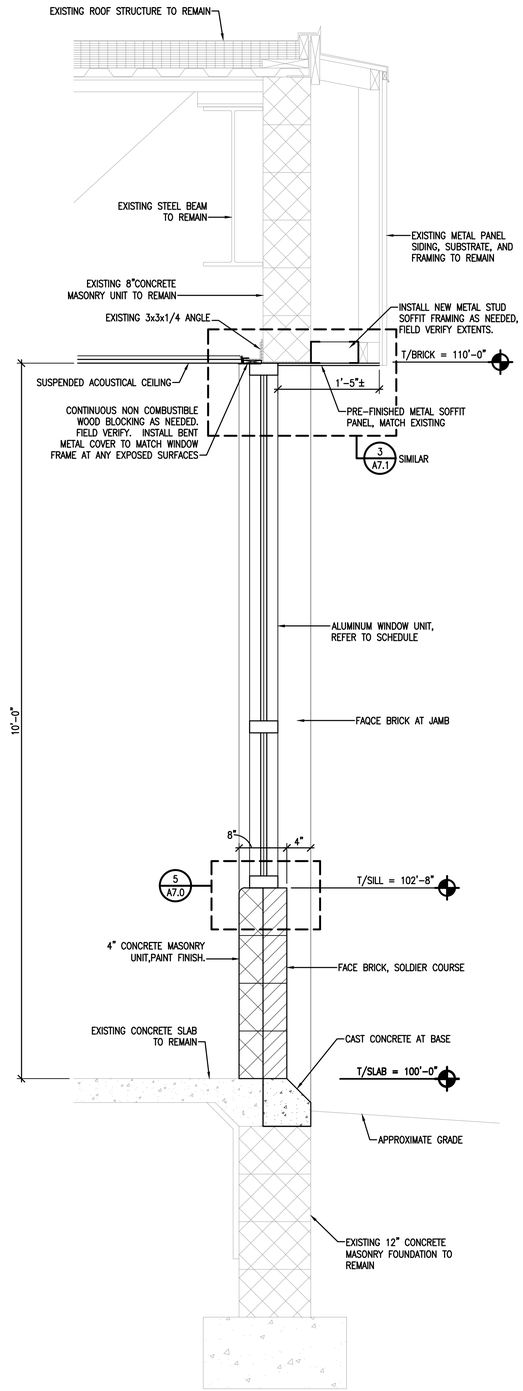
A6.0



WALL SECTION
SCALE: 1" = 1'-0"
3
A6.1



MASONRY WALL AT MEDIA CENTER
SCALE: 1" = 1'-0"
2
A6.1



WALL SECTION
SCALE: 1" = 1'-0"
1
A6.1

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BIRGHTON OFFICE:
8711 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

ARCHITECTURE ENGINEERING CONSULTING

INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

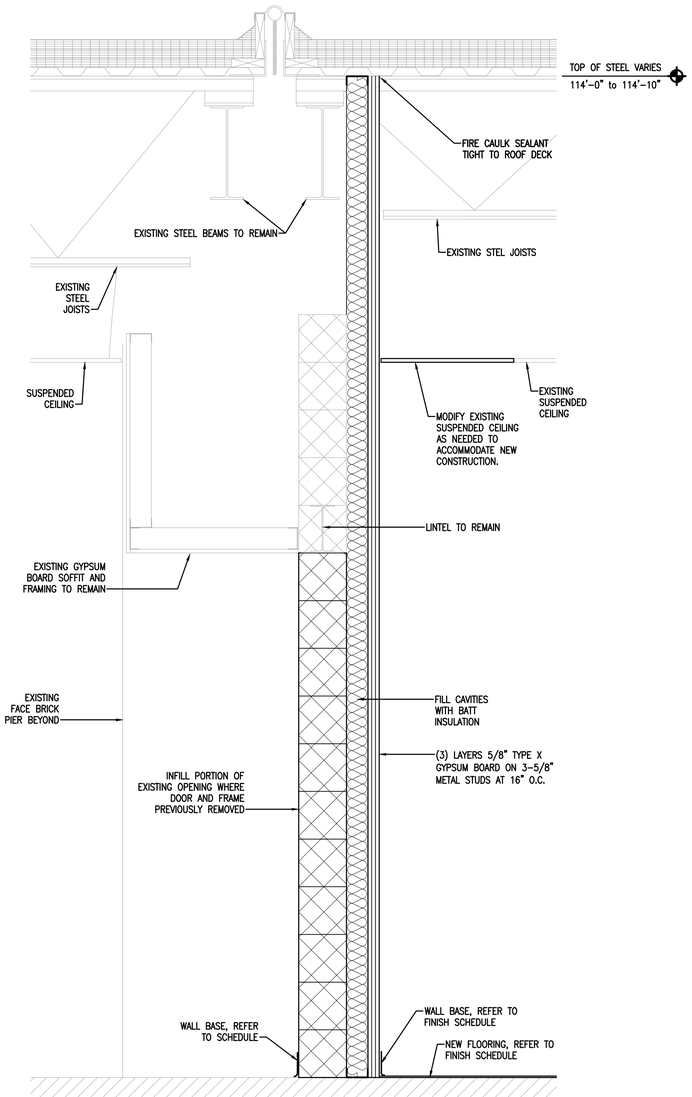
NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

BY	DATE
DESIGN	- -
DRAWN	- -
CHECKED	- -
APPROVED	- -

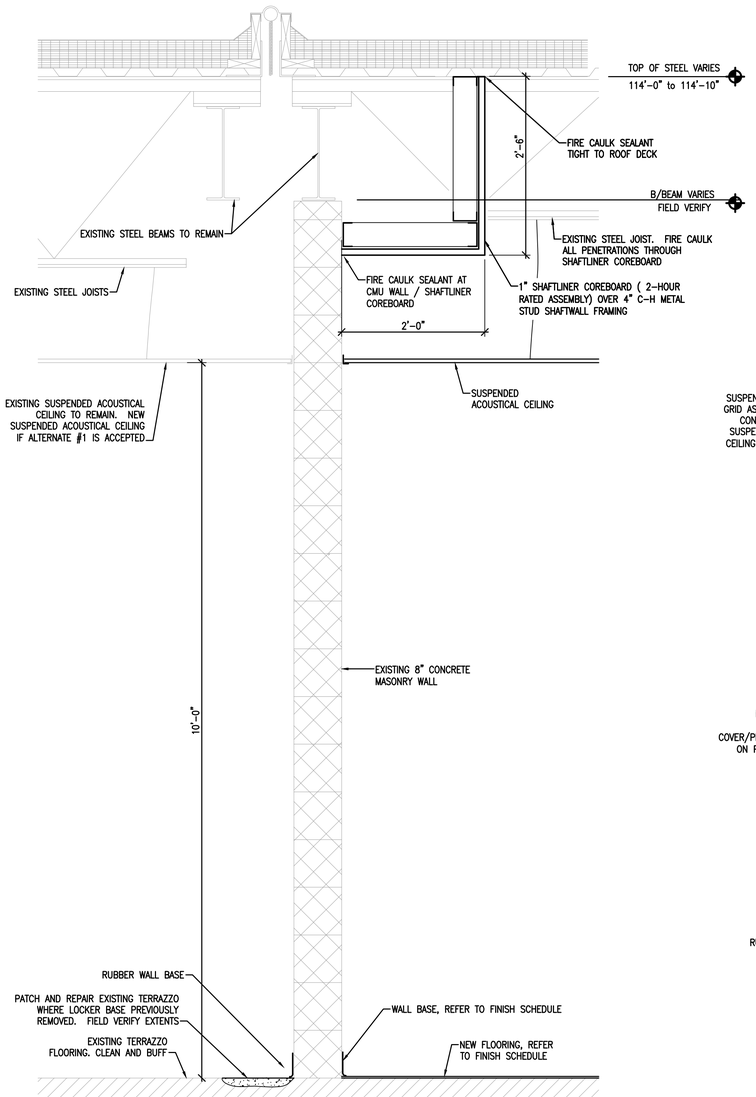
WALL SECTIONS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

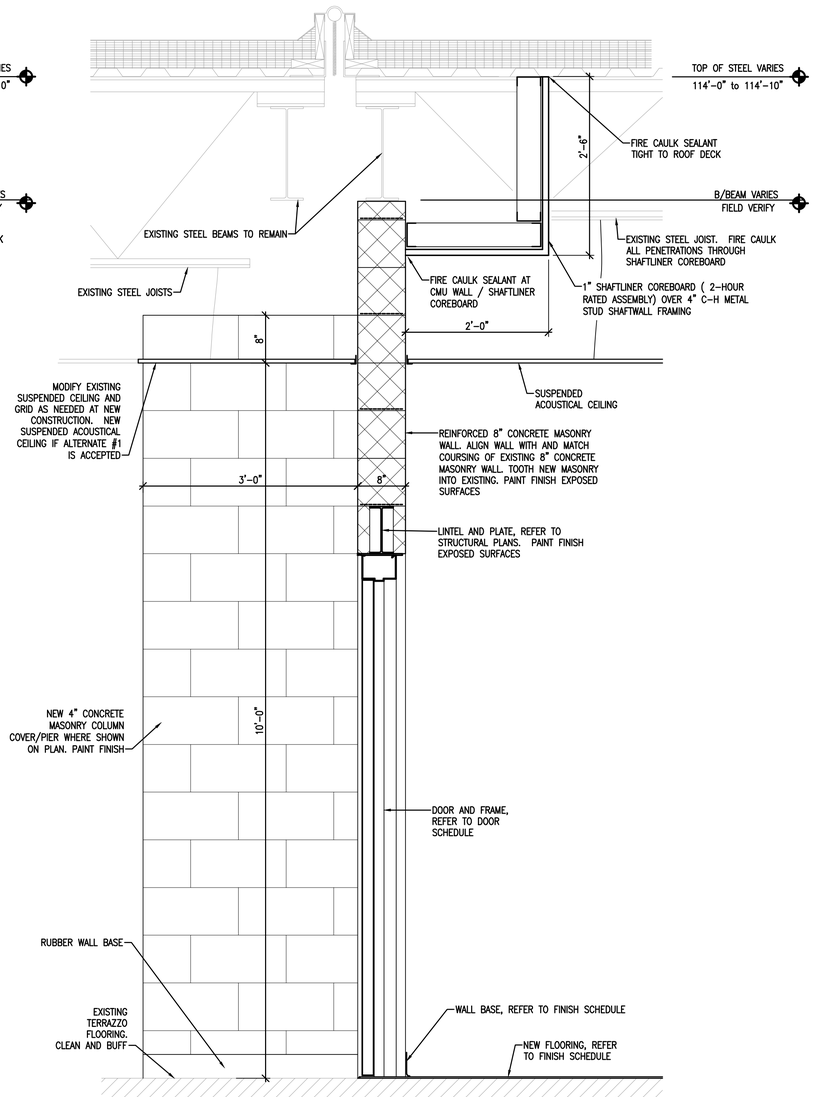
A6.1



WALL SECTION 3 A1.6
SCALE: 1" = 1'-0"



WALL SECTION 2 A6.2
SCALE: 1" = 1'-0"



WALL SECTION 1 A6.2
SCALE: 1" = 1'-0"

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRGHTON OFFICE:
8000 ORCHARD LAKE RD. AVE., SUITE 600
BIRGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)224-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

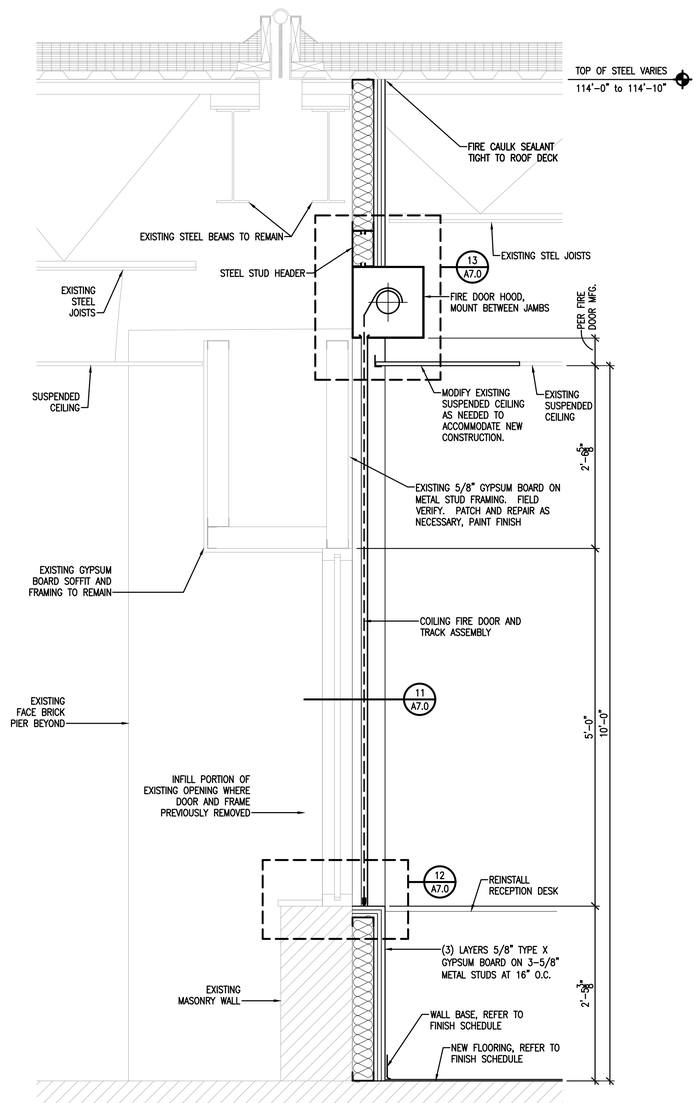
NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

WALL SECTIONS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A6.2



WALL SECTION 1 A6.3
SCALE: 1" = 1'-0"

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

WALL SECTIONS

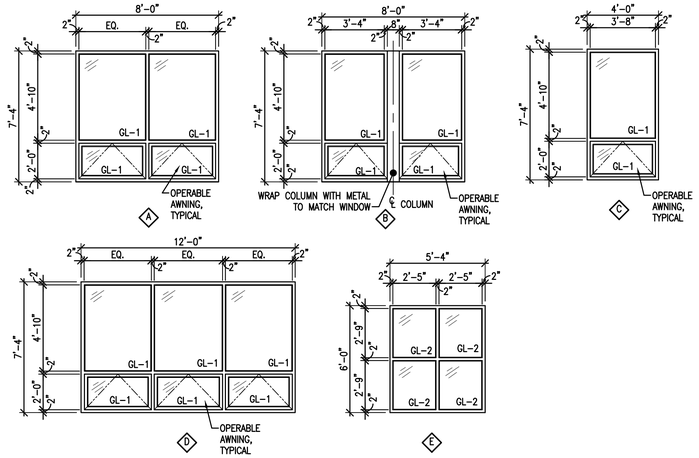
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A6.3

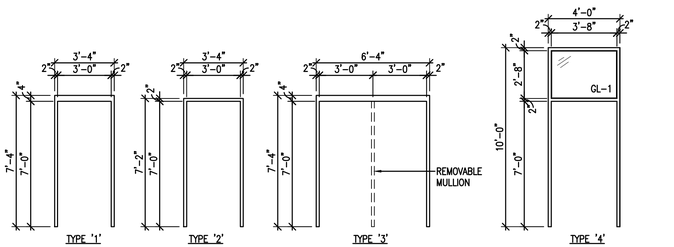
WINDOW SCHEDULE

WINDOW DESIG.	FRAME		WINDOW			DETAIL REFERENCE				REMARKS
	MATERIAL	TYPE	TYPE	GLAZING	SIZE	HEAD	JAMB	SILL	MULLION	
A	ALUM	A	FIX/AWN	GL-1	8'-0" x 7'-4"	6/A7.0	4/A7.0	5/A7.0		
B	ALUM	B	FIX/AWN	GL-1	(2) 3'-4" x 7'-4"	--	4/A7.0 & 7/A7.0	5/A7.0	--	--
C	ALUM	D	FIX/AWN	GL-1	4'-0" x 7'-4"	--	--	--	--	--
D	ALUM	C	FIX/AWN	GL-1	12'-0" x 7'-4"	--	--	--	--	--
E	HM	E	FIXED	GL-2	5'-4" x 6'-0"	2/A7.0 SIM	1/A7.0 SIM	2/A7.0 SIM	--	--
--	--	--	--	--	--	--	--	--	--	--

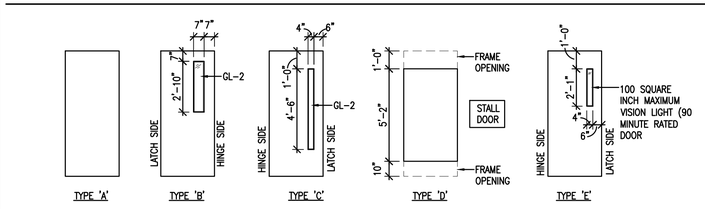
WINDOW TYPES



DOOR FRAME TYPES



DOOR TYPES



DOOR SCHEDULE

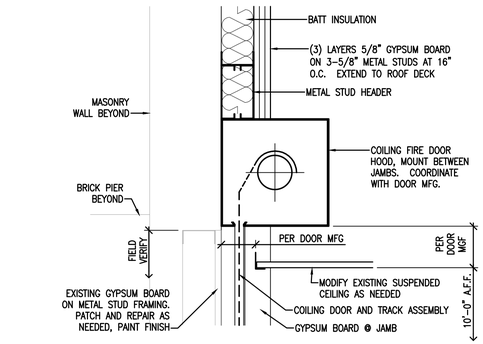
DOOR NUMBER	FRAME		DOOR				HARDWARE SET	DETAIL REFERENCE				REMARKS
	MATERIAL	TYPE	MATERIAL	TYPE	FIRE RATING	SIZE		HEAD	JAMB	THRESHOLD	MULLION	
101.0	HM	1	SCWV	E	90 MIN.	3'-0" x 7'-0"	19	1/A7.0	2/A7.0			
102.0	HM	1	SCWV	B	45 MIN.	3'-0" x 7'-0"	03	1/A7.0	2/A7.0			
102.1	HM	1	SCWV	A	45 MIN.	3'-0" x 7'-0"	05	1/A7.0	2/A7.0			
103.0	HM	1	SCWV	A	90 MIN.	3'-0" x 7'-0"	19	1/A7.0	2/A7.0			
104.0	HM	1	SCWV	B	45 MIN.	3'-0" x 7'-0"	03	1/A7.0	2/A7.0			
104.1	HM	1	SCWV	A	45 MIN.	3'-0" x 7'-0"	04	1/A7.0	2/A7.0			
105.0	HM	1	SCWV	B	45 MIN.	3'-0" x 7'-0"	03	1/A7.0	2/A7.0			
106.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
107.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
108.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
109.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
110.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
111.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
112.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
113.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
114.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
115.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
116.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
117.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
118.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
119.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
120.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
121.0	HM	1	SCWV	B		3'-0" x 7'-0"	14	1/A7.0	2/A7.0			
121.1	HM	1	SCWV	B		3'-0" x 7'-0"	12	1/A7.0	2/A7.0			
121.2	HM	3	SCWV	B		(2) 3'-0" x 7'-0"	11	1/A7.0	2/A7.0			
122.0	HM	1	SCWV	B		3'-0" x 7'-0"	07	1/A7.0	2/A7.0			
123.0	HM	1	SCWV	B	45 MIN.	3'-0" x 7'-0"	04	1/A7.0	2/A7.0			
124.0	HM	1	SCWV	B		3'-0" x 7'-0"	06	9/A7.0	2/A7.0 SIM.			
125.0	HM	1	SCWV	B*	45 MIN.	3'-0" x 7'-0"	04	1/A7.0 SIM.	10/A7.0			*5
125.1	HM	1	SCWV	B		3'-0" x 7'-0"	18	1/A7.0	2/A7.0			
126.0	HM	1	SCWV	D		3'-0" x 5'-2"	10	9/A7.0	2/A7.0 SIM.			*1
127.0	HM	1	SCWV	D		3'-0" x 5'-2"	10	9/A7.0	2/A7.0 SIM.			*1
128.0	HM	2	SCWV	A		3'-0" x 7'-0"	06	3/A7.0	3/A7.0			
129.0	HM	2	SCWV	A		3'-0" x 7'-0"	06	3/A7.0	3/A7.0			
129.1	HM	1	SCWV	A		3'-0" x 7'-0"	13	1/A7.0	2/A7.0			
130.0	HM	2	SCWV	A		3'-0" x 7'-0"	04	3/A7.0	3/A7.0			
131.0	HM	2	SCWV	A		3'-0" x 7'-0"	06	3/A7.0	3/A7.0			
132.0	HM	2	SCWV	A		3'-0" x 7'-0"	06	3/A7.0	3/A7.0			
133.0	HM	2	SCWV	A		3'-0" x 7'-0"	06	3/A7.0	3/A7.0			
134.0	HM	2	SCWV	A		3'-0" x 7'-0"	04	3/A7.0	3/A7.0			
139.0	HM	1	SCWV	E	90 MIN.	3'-0" x 7'-0"	20	1/A7.0	2/A7.0			*6
139.1	HM	1	SCWV	E	90 MIN.	3'-0" x 7'-0"	07.1	1/A7.0	2/A7.0			
139.2	COILING FIRE DOOR				90 MIN.	6'-2" x 8'-0" F.V.	BY MFG	13/A7.0	11/A7.0	12/A7.0		
142.0	HM	1	SCWV	A		3'-0" x 7'-0"	06	1/A7.0	2/A7.0			
142.1	HM	1	SCWV	A		3'-0" x 7'-0"	09	1/A7.0	2/A7.0			
142.2	HM	1	SCWV	A		3'-0" x 7'-0"	06	1/A7.0	2/A7.0			
143.0	HM	1	SCWV		90 MIN.	3'-0" x 7'-0"	19	1/A7.0	2/A7.0			
144.0	HM	3	SCWV	E	90 MIN.	(2) 3'-0" x 7'-0"	02	1/A7.0	2/A7.0			*4
144.1	HM	3	SCWV	E	90 MIN.	(2) 3'-0" x 7'-0"	01	1/A7.0	2/A7.0			*2, *3, 4*
145.0	ALUM	4	FRP	C		3'-0" x 7'-0"	15	3/A7.1	4/A7.0 SIM.	2/A7.1		*2, *3
149.0	ALUM	6	FRP	C		(2) 3'-0" x 7'-0"	16	4/A7.1		1/A7.1		*2, *3
152.0	HM	2	SCWV	A		3'-0" x 7'-0"	08	3/A7.0	3/A7.0			*2
152.1	HM	5	SCWV	A		3'-0" x 7'-0"	17	3/A7.0	3/A7.0			*4
154.0	HM	2	SCWV	A		3'-0" x 7'-0"	08	3/A7.0	3/A7.0			*2

CODE TO DOOR SCHEDULE

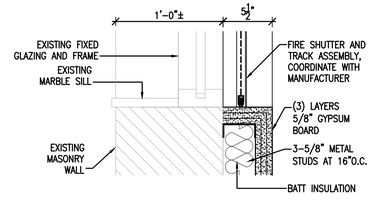
GL-1	INSULATED SAFETY GLAZING	HM	HOLLOW METAL
GL-2	SAFETY GLAZING	ALUM	ALUMINUM
		SCWV	SOLID CORE WOOD VENEER

REMARKS TO SCHEDULE

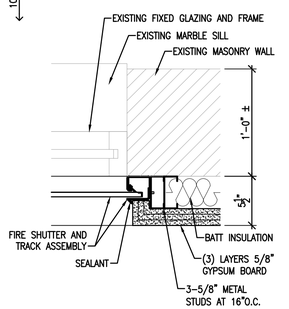
1. STALL TYPE DOOR, REFER TO DOOR TYPES
2. DOOR TO HAVE CARD READER(S), SUPPLIED BY OWNER, AND ELECTRIC STRIKE.
3. DOOR TO HAVE POSITION SWITCH
4. DOOR TO HAVE MAGNETIC HOLD OPEN TIED TO FIRE ALARM SYSTEM
5. DOOR TO HAVE 180 DEGREE SWING. MOUNT FRAME FLUSH WITH CORRIDOR MASONRY WALL.
6. DOOR TO HAVE ELECTRIC STRIKE AND BE TIED TO EXISTING PUSH BUTTON OPENING SYSTEM.



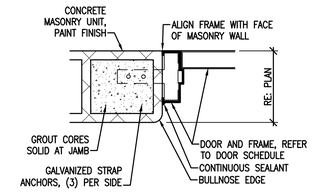
FIRE SHUTTER HEAD
SCALE: 1-1/2" = 1'-0"
13 / A7.0



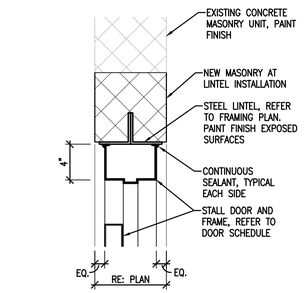
FIRE SHUTTER SILL
SCALE: 1-1/2" = 1'-0"
12 / A7.0



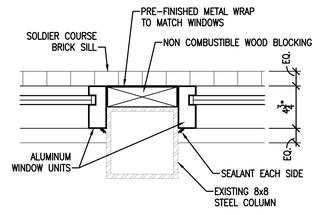
FIRE SHUTTER JAMB
SCALE: 1-1/2" = 1'-0"
11 / A7.0



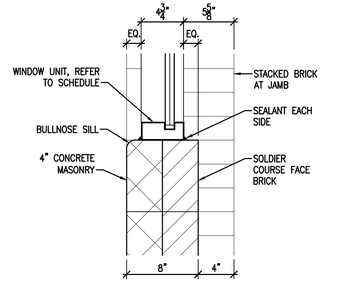
DOOR JAMB DETAIL
SCALE: 1-1/2" = 1'-0"
10 / A7.0



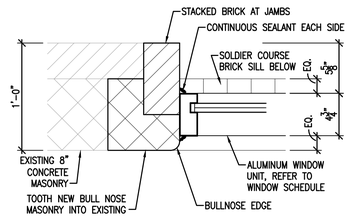
DOOR HEAD DETAIL
SCALE: 1-1/2" = 1'-0"
9 / A7.0



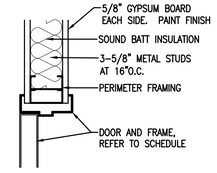
WINDOW JAMB DETAIL
SCALE: 1-1/2" = 1'-0"
7 / A7.0



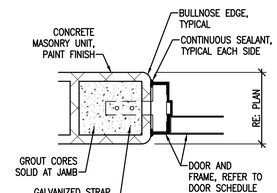
WINDOW SILL DETAIL
SCALE: 1-1/2" = 1'-0"
5 / A7.0



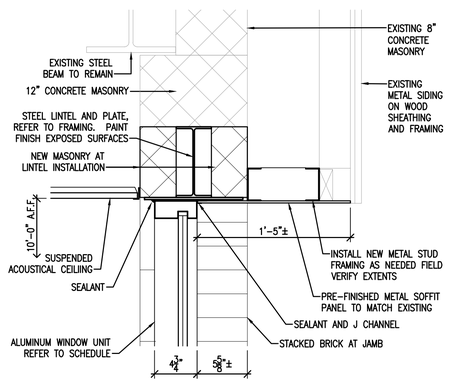
WINDOW JAMB DETAIL
SCALE: 1-1/2" = 1'-0"
4 / A7.0



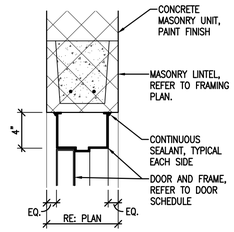
DOOR HEAD & JAMB DETAIL
SCALE: 1-1/2" = 1'-0"
3 / A7.0



DOOR JAMB DETAIL
SCALE: 1-1/2" = 1'-0"
2 / A7.0



WINDOW HEAD DETAIL
SCALE: 1-1/2" = 1'-0"
6 / A7.0



DOOR HEAD DETAIL
SCALE: 1-1/2" = 1'-0"
1 / A7.0

ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.
MARQUETTE OFFICE: 1021 W. BARAGA AVENUE MARQUETTE, MI 49855 PHONE: (906)228-4480 FAX: (906)228-7324
BIRGHTON OFFICE: 8001 GRAND RIVER AVE., SUITE 600 BRIGHTON, MI 48816 PHONE: (810)229-2701 FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

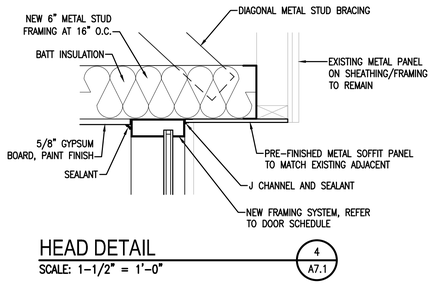
NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

BY	DATE
DESIGN	
DRAWN	
CHECKED	
APPROVED	

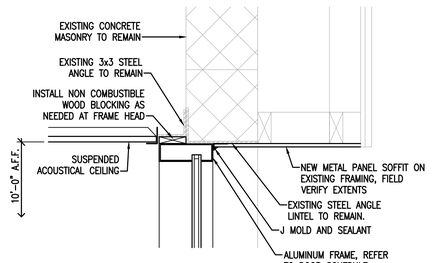
DOOR & WINDOW SCHEDULES & DETAILS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

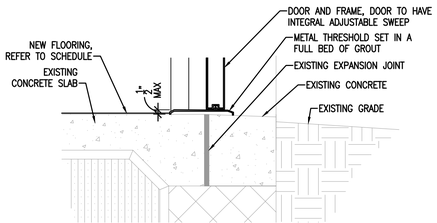
A7.0



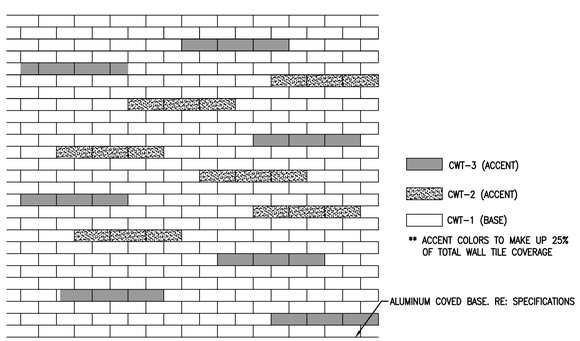
HEAD DETAIL
SCALE: 1-1/2" = 1'-0"
4 A7.1



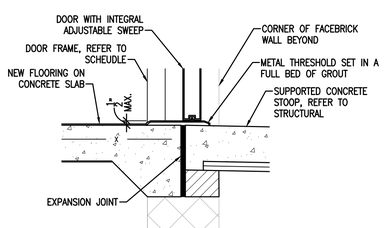
HEAD DETAIL
SCALE: 1-1/2" = 1'-0"
3 A7.1



THRESHOLD DETAIL
SCALE: 1-1/2" = 1'-0"
2 A7.1



WALL TILE DETAIL
SCALE: 1/2" = 1'-0"
5 A7.1



THRESHOLD DETAIL
SCALE: 1-1/2" = 1'-0"
1 A7.1

ROOM FINISH SCHEDULE

NUMBER	ROOM NAME	CEILING TYPE	FLOOR	BASE	WALLS TYPICAL	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	SIGN TYPE	REMARKS
100	CORRIDOR (EXISTING)	*	ET-1*	RB-1		PNT-2*	PNT-2*	PNT-2*	PNT-2*		*2, *3, *4
101	OFFICE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
102	SCIENCE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
103	STORAGE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
104	SCIENCE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
104A	SCIENCE PREP	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
105	SCIENCE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
106	ART ROOM	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
107	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
108	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
109	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
110	SPECIAL EDUCATION	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
111	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
112	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
113	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
114	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
115	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
116	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
117	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
118	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
119	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
120	CLASSROOM	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
121	MEDIA CENTER	ACT-2	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
122	SPECIAL EDUCATION	ACT-1	CPT-2	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
123	JANITOR CLOSET	GYP-1	CONC-1	RB-1		PNT-3	PNT-3	PNT-3	PNT-3		
124	CONFERENCE	ACT-1	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
125	STORAGE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
126	MENS TOILET	GYP-1	TILE-TBD	AL-1	PT-3, CWT-1, CWT-2, CWT-3 REFER TO REMARK *1						*1
127	WOMENS TOILET	GYP-1	TILE-TBD	AL-1	PT-3, CWT-1, CWT-2, CWT-3 REFER TO REMARK *1						*1
128	OFFICE	ACT-1	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
129	CONFERENCE	ACT-1	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
130	STORAGE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
131	CONFERENCE	ACT-1	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
132	OFFICE	ACT-1	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
133	OFFICE	ACT-1	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
134	FILES	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
135	OFFICE (EXISTING)	EXIST	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2	--	--
136	OFFICE (EXISTING)	EXIST	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2	--	--
137	OFFICE (EXISTING)	EXIST	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2	--	--
138	OFFICE (EXISTING)	EXIST	CPT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2	--	--
139	OFFICE (EXISTING)	EXIST	CPT-1	RB-1	EXIST						
140	CONFERENCE (EXISTING)	EXIST	CPT-1	RB-1	EXIST						
141	TOILET (EXISTING)	EXIST	EXIST	EXIST	EXIST						
142	STAFF ROOM	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
142A	TOILET	GYP-1	TILE-TBD	AL-1		PNT-3	PNT-3	PNT-3	PNT-3		
143	IT	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
144	LOBBY/COMMONS	ACT-1	TILE-TBD	RB-1	--	PNT-2	PNT-2	PNT-2	PNT-2	--	--
145	CORRIDOR	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
146	CORRIDOR	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
147	CORRIDOR	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
148	CORRIDOR	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
149	ENTRY	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
150	CORRIDOR	ACT-2	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
151	CORRIDOR	--	--	--	--	--	--	--	--	--	--
152	PASSAGE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
153	PASSAGE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
154	PASSAGE	ACT-1	LVT-1	RB-1		PNT-2	PNT-2	PNT-2	PNT-2		
155	PASSAGE (EXISTING)	EXIST	LVT-1	RB-1	EXIST						

CODE TO FINISHES

EXIST EXISTING MATERIAL TO REMAIN
TBD INFORMATION TO BE DETERMINED

FLOORING

CPT-2 CARPET TILES: PATCRAFT 10584 SELVAGE: TEXTILE TECHNIQUE: 00500 SATIN (12"x48")
CPT-2 CARPET TILES: PATCRAFT: STONECLAD 10685 COLLECTION: LITHIC - 00550 OSCURO (18"x36")
LVT-1 LUXURY VINYL TILE: TARKETT: EVENT STONE: PEUS URBAN STONE 2101N CEMENT (18"x18")
PFT-1 PORCELAIN FLOOR TILE: TO BE DETERMINED
CONC-1 SEALED CONCRETE
TILE-TBD CERAMIC/PORCELAIN FLOOR TILE: TO BE DETERMINED
ET-1 EPOXY TERRAZZO FLOORING TO MATCH EXISTING ADJACENT

WALL BASE

RB-1 4" RESILIENT BASE: JOHNSONITE 20 CHARCOAL WB
AL-1 SCHLUTER COVE WALL BASE - ALUMINUM

PAINT

PNT-1 FLAT, CEILING WHITE
PNT-2 EGGSHELL LATEX, SHERWIN WILLIAMS SW7042 SHOJI WHITE
PNT-3 SEMIGLOSS LATEX, SHERWIN WILLIAMS SW7042 SHOJI WHITE

WALL TILE

CWT-1 4"x12" WALL FIELD TILE, DALTILE LINEAR, ARTIC WHITE 0190
CWT-2 4"x12" WALL ACCENT TILE, DALTILE LINEAR, SEABREEZE
CWT-3 4"x12" WALL ACCENT TILE, DALTILE LINEAR, SUEDE GRAY

PLASTIC LAMINATE

PL-1 PLASTIC LAMINATE - FORMICA: TO BE DETERMINED
PL-2 PLASTIC LAMINATE - FORMICA, PLANKED DELUX PEAR, 6206-43

CEILING TYPES

GYP-1 5/8" GYPSUM BOARD ON METAL SUSPENSION SYSTEM. MOLD AND MOISTURE RESISTANT IN WET LOCATIONS. TAPE, SAND SMOOTH, PAINT FINISH PT-1
ACT-1 24x24 ACOUSTICAL CEILING TILE IN SUSPENDED METAL GRID.
ACT-2 24x24 ACOUSTICAL CEILING TILE IN SUSPENDED "CLOUD" CONFIGURATION. REFER TO CEILING CLOUD POSITION PLAN ON DRAWING SHEET A2.4 FOR MORE INFORMATION

LOCKER COLOR THROUGHOUT 052 REFLEX BLUE

GENERAL NOTES TO ROOM FINISH

1. PROVIDE APPROPRIATE TRANSITION STRIPS WHERE DIFFERING FLOOR TILES ABUT.

REMARKS TO FINISH SCHEDULE

1. FULL HEIGHT WALL TILE (CWT-1, CWT-2, CWT-3) STRICTLY ON SINK WALL AND HAND DRYER WALL WITHIN RESTROOM. ACCENT TILE COLORS TO MAKE UP 25% OF TOTAL TILE COVERAGE. FOR FULL WALL TILE PATTERN REFER TO DETAIL 5/A7.1. ALL OTHER CMU WALLS TO BE PAINTED PT-3.
2. BASE BID, EXISTING CEILING TO REMAIN. ALTERNATE #1, REMOVE AND REPLACE EXISTING CEILING WITH ACT-1, CLEAN AND PAINT EXISTING SKYLIGHT WELLS.
3. PATCH AND REPAIR EXISTING TERRAZZO FLOORING WHERE LOCKER BASES PREVIOUSLY REMOVED.
4. PAINT FINISH CONCRETE MASONRY UNIT WALLS IN CORRIDOR. EXISTING FACE BRICK PIERS AND ACCENTS TO REMAIN

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRGHTON OFFICE:
201 E. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

DI ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

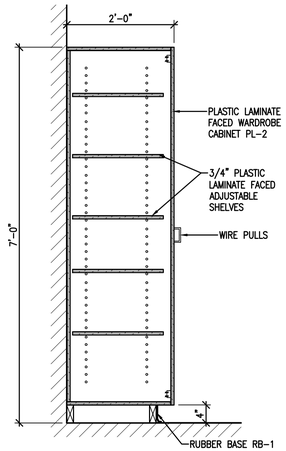
NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN		
DRAWN		
CHECKED		
APPROVED		

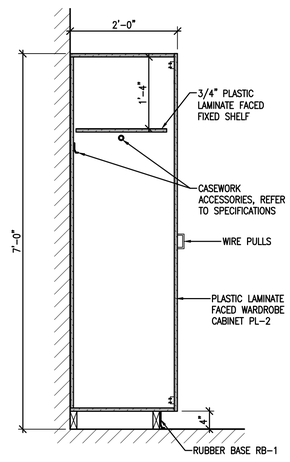
ROOM FINISH SCHEDULE

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

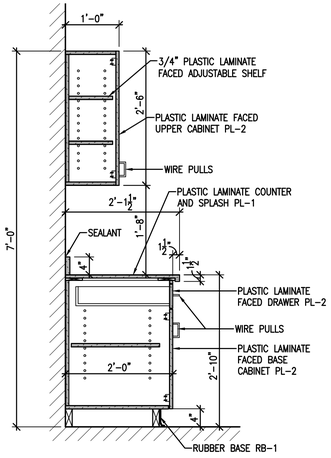
A7.1



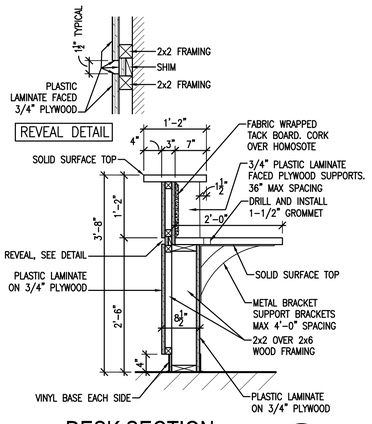
CASEWORK SECTION 10 A9.0
SCALE: 3/4" = 1'-0"



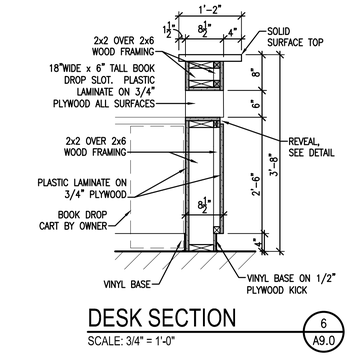
CASEWORK SECTION 9 A9.0
SCALE: 3/4" = 1'-0"



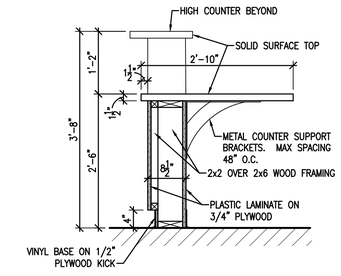
CASEWORK SECTION 8 A9.0
SCALE: 3/4" = 1'-0"



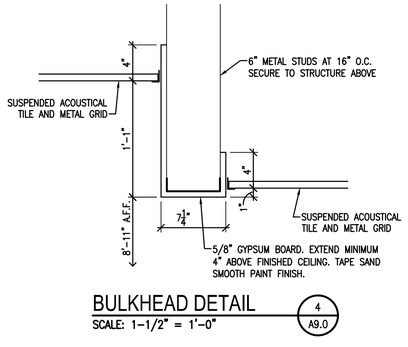
DESK SECTION 7 A9.0
SCALE: 3/4" = 1'-0"



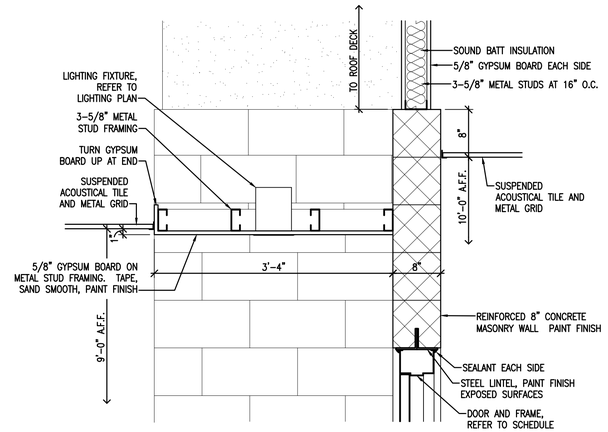
DESK SECTION 6 A9.0
SCALE: 3/4" = 1'-0"



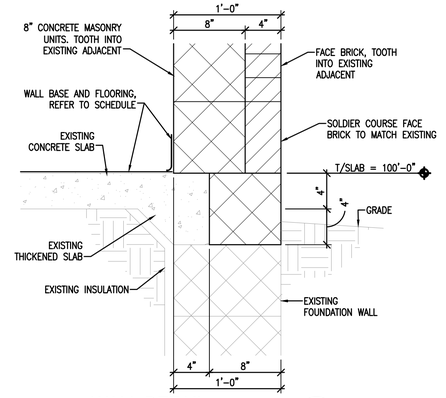
DESK SECTION 5 A9.0
SCALE: 3/4" = 1'-0"



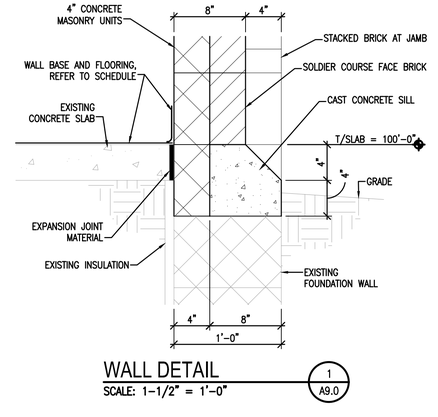
BULKHEAD DETAIL 4 A9.0
SCALE: 1-1/2" = 1'-0"



DETAIL 3 A9.0
SCALE: 1" = 1'-0"



WALL DETAIL 2 A9.0
SCALE: 1-1/2" = 1'-0"



WALL DETAIL 1 A9.0
SCALE: 1-1/2" = 1'-0"

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

ARCHITECTURE
ENGINEERING
CONSULTING

INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DESIGN DEVELOP	7-24-25
0	FOR CONSTRUCTION	11-5-25

BY	DATE
---	---
---	---
---	---
---	---

DESIGN
DRAWN
CHECKED
APPROVED

DETAILS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

A9.0

SCIENCE ROOM 104				
LABEL	**QTY**	**PRODUCT #**	**DESCRIPTION**	**DIMENSIONS**
A	24	EON7366-EJA	Eon Plymouth II Desk: (4) 1.5" Slim Straight Round Legs, HPL Top, AE Edge, Smooth Silver Legs	20" x 28.5" x 21.25-34.25"
B	16	CHR18-4	Sconnie Chair: 4 Legged Chair, Nylon Glide	Seat Height 18"
C	29	SE-TM	Accumen Chair: Vinyl, Medium Height	Seat Height 21-28"
D	1	P814L-CA	Uplift Tables w/ Wood Apron, Laminate Top, Metal Legs, Casters	60" x 30" x 26.5-41"
E	1	1216-R	Instructor Desk, Sink on Right, Epoxy Top, Oak Base	60" w x 30" d x 36" h
F	1	4111_F	Mobile Instructor Desk, Flat Top, HPL Top, Oak Base	48" w x 24" d x 36" h
J	1	GBF1909SSH	Safety Shower: Barrier-Free Safety Station w/ Wide Area Eye/Face Wash, Stainless Steel Shower Head	
O	1	ESC11-11LM	Eye Safety Cabinet	24.5" w x 9.5" d x 32" h

PRODUCT LISTING

SCIENCE ROOM 105				
LABEL	**QTY**	**PRODUCT #**	**DESCRIPTION**	**DIMENSIONS**
A	24	EON7366-EJA	Eon Plymouth II Desk: (4) 1.5" Slim Straight Round Legs, HPL Top, AE Edge, Smooth Silver Legs	20" x 28.5" x 21.25-34.25"
B	16	CHR18-4	Sconnie Chair: 4 Legged Chair, Nylon Glide	Seat Height 18"
C	29	SE-TM	Accumen Chair: Vinyl, Medium Height	Seat Height 21-28"
D	1	P814L-CA	Uplift Tables w/ Wood Apron, Laminate Top, Metal Legs, Casters	60" x 30" x 26.5-41"
E	1	1216-R	Instructor Desk, Sink on Right, Epoxy Top, Oak Base	60" w x 30" d x 36" h
F	1	4111_F	Mobile Instructor Desk, Flat Top, HPL Top, Oak Base	48" w x 24" d x 36" h
J	1	GBF1909SSH	Safety Shower: Barrier-Free Safety Station w/ Wide Area Eye/Face Wash, Stainless Steel Shower Head	
O	1	ESC11-11LM	Eye Safety Cabinet	24.5" w x 9.5" d x 32" h

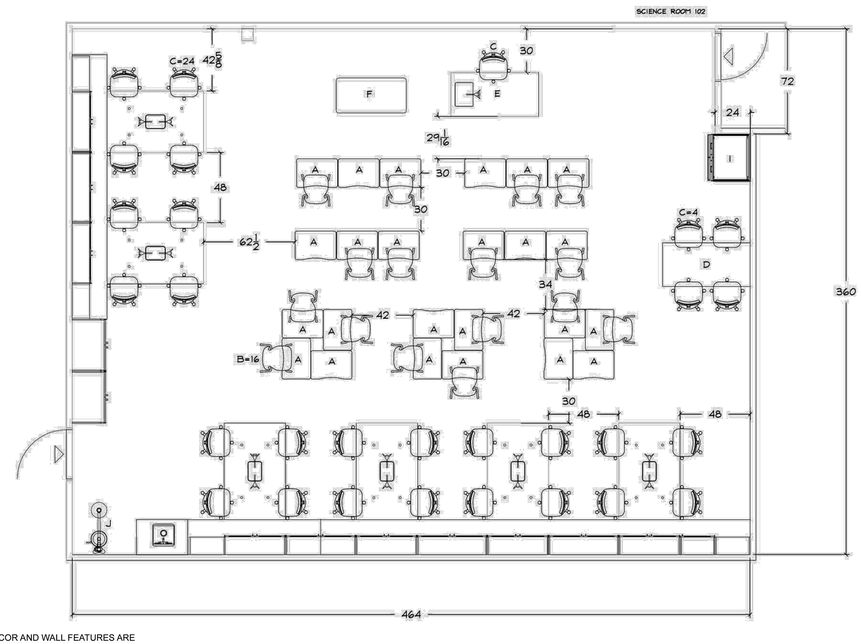
PRODUCT LISTING

SCIENCE ROOM 102				
LABEL	**QTY**	**PRODUCT #**	**DESCRIPTION**	**DIMENSIONS**
A	24	EON7366-EJA	Eon Plymouth II Desk: (4) 1.5" Slim Straight Round Legs, HPL Top, AE Edge, Smooth Silver Legs	20" x 28.5" x 21.25-34.25"
B	16	CHR18-4	Sconnie Chair: 4 Legged Chair, Nylon Glide	Seat Height 18"
C	29	SE-TM	Accumen Chair: Vinyl, Medium Height	Seat Height 21-28"
D	1	P814L-CA	Uplift Tables w/ Wood Apron, Laminate Top, Metal Legs, Casters	60" x 30" x 26.5-41"
E	1	1216-R	Instructor Desk, Sink on Right, Epoxy Top, Oak Base	60" w x 30" d x 36" h
F	1	4111_F	Mobile Instructor Desk, Flat Top, HPL Top, Oak Base	48" w x 24" d x 36" h
I	1	1800-GF4F	Mobile Fume Hood Cabinetw w/ Hood & Filter, Casters	35.625" w x 29" d x 86.375" h
J	1	GBF1909SSH	Safety Shower: Barrier-Free Safety Station w/ Wide Area Eye/Face Wash, Stainless Steel Shower Head	
O	1	ESC11-11LM	Eye Safety Cabinet	24.5" w x 9.5" d x 32" h

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS		PRODUCT LIST
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25	R3:DATE 3	PL1
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25	R4:DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw				



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS		FLOOR PLAN
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25	R3:DATE 3	FP1
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25	R4:DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw				

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4488
FAX: (906)228-7324

BRIGHTON OFFICE:
8711 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

	NO.	REVISIONS	DATE
	0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.0

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.

SCIENCE ROOM 102
CASEWORK: OAK
WORKSTATIONS: BLACK, EPOXY TOPS, OAK
HPL DESKS: MUSHROOM, HIGH RISE, HANDSPUN DOVE, CATALINA TOPS
SCONNIE CHAIR: ROYAL BLUE
ACUMEN CHAIRS: INK
UPLIFT TABLE: GRAY GLACE



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25 R3:DATE 3	R1
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25 R4:DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			



SCIENCE ROOM 102

NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25 R3: DATE 3	R2
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324
BRIGHTON OFFICE:
8411 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)224-6797

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.1

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.



SCIENCE ROOM 102

NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25 R3: DATE 3	R3
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25 R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			



SCIENCE ROOM 102

NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25 R3: DATE 3	R4
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25 R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8411 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

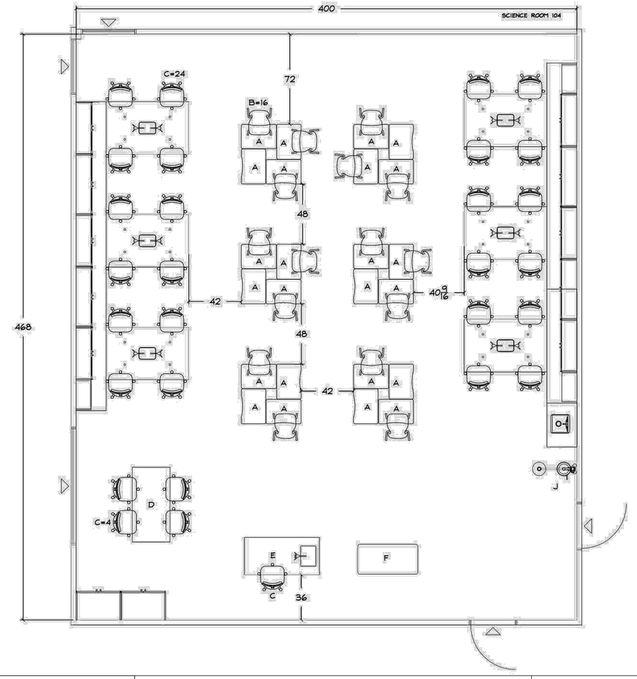
NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.2



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC	**PROPRIETARY & CONFIDENTIAL STATEMENT:** This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .	PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	FLOOR PLAN
		CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25 R3:DATE 3	FP2
		CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25 R4:DATE 4	
		s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.

SCIENCE ROOM 104
CASEWORK: OAK
WORKSTATIONS: OAK BASE, EPOXY TOPS
HPL DESKS: MUSHROOM, HIGH RISE, HANDSPUN DOVE, CATALINA TOPS
SCONNIE CHAIR: ROYAL BLUE
ACUMEN CHAIR: INK
UPLIFT TABLES: GRACE GREY



SCIENCE ROOM 104

NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC	**PROPRIETARY & CONFIDENTIAL STATEMENT:** This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .	PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
		CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25 R3:DATE 3	R5
		CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25 R4:DATE 4	
		s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524
BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.3

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.



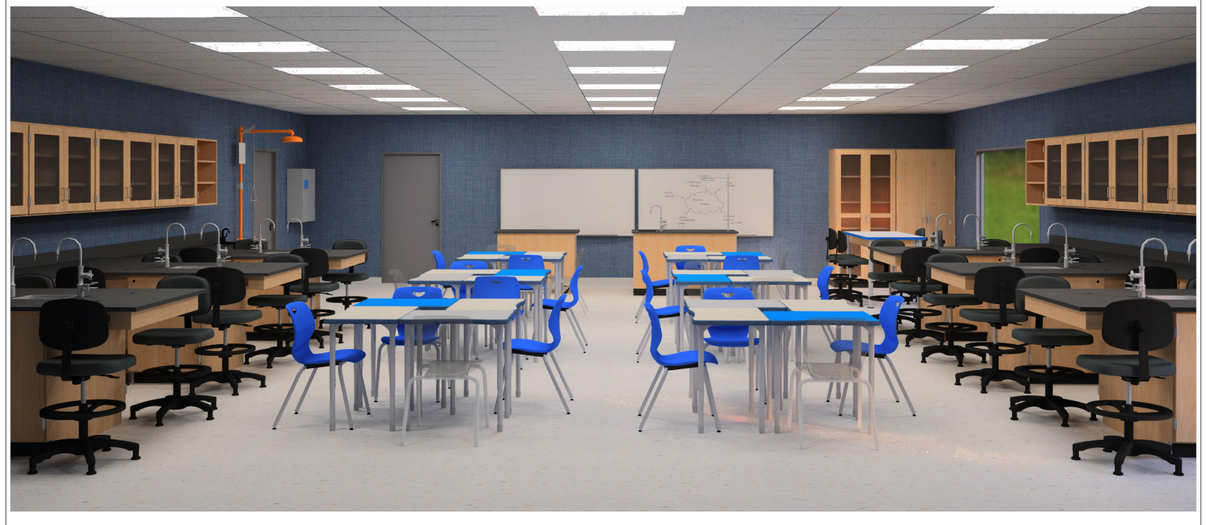
SCIENCE ROOM 104

NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25 R3:DATE 3	R6
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25 R4:DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			



SCIENCE ROOM 104

NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1:10.1.25 R3:DATE 3	R7
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2:10.20.25 R4:DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8411 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

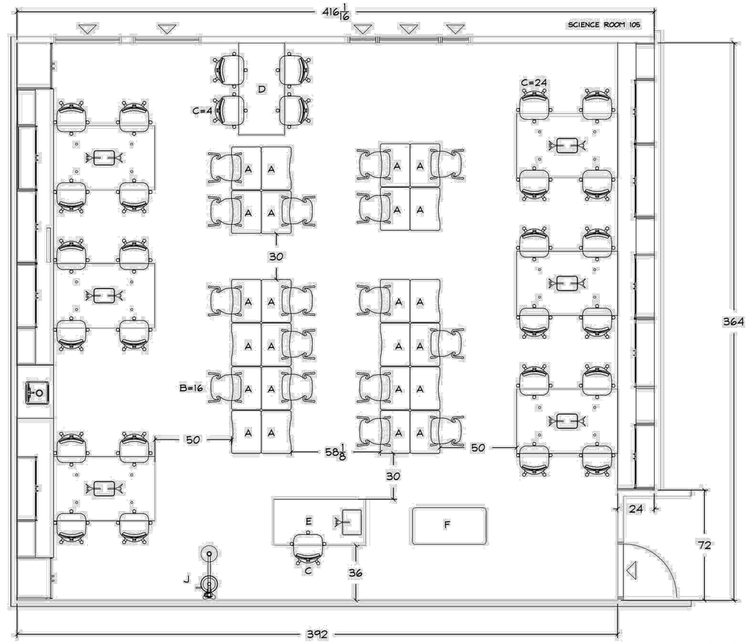
	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.4

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

SCIENCE ROOM 105

DIVERSIFIED WOODCRAFTS, INC	**PROPRIETARY & CONFIDENTIAL STATEMENT:** This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .	PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	FLOOR PLAN
		CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 R3: DATE 3	FP3
		CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
		s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

SCIENCE ROOM 105
CASEWORK: OAK
WORKSTATIONS: OAK BASE, EPOXY TOPS
HPL DESKS: MUSHROOM, HIGH RISE, HANDSPUN DOVE, CATALINA TOPS
SCONNIE CHAIR: ROYAL BLUE
ACUMEN CHAIR: INK
UPLIFT TABLE: GLACE GREY



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

SCIENCE ROOM 105

DIVERSIFIED WOODCRAFTS, INC	**PROPRIETARY & CONFIDENTIAL STATEMENT:** This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .	PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
		CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 R3: DATE 3	R9
		CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
		s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

INTEGRATED DESIGNS INC.
ARCHITECTURE ENGINEERING CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7524
BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.6

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

SCIENCE ROOM 105

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 R3: DATE 3	R10
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

SCIENCE ROOM 105

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 R3: DATE 3	R11
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8411 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

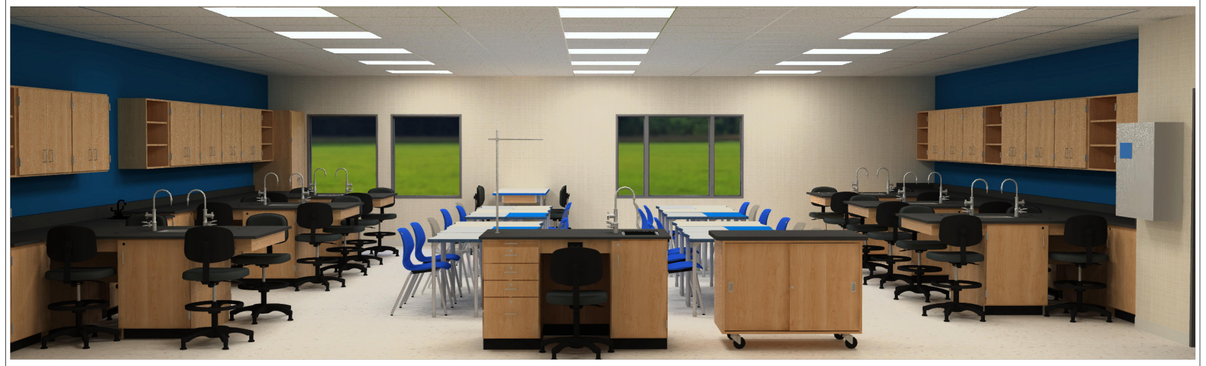
	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.7

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

SCIENCE ROOM 105

DIVERSIFIED WOODCRAFTS, INC	**PROPRIETARY & CONFIDENTIAL STATEMENT:** This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .	PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
		CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 R3: DATE 3	R12
		CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
		s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

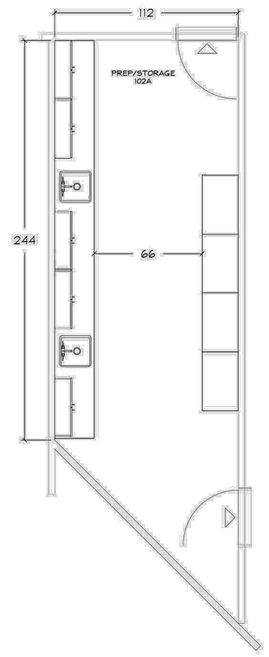
COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

SP1.8



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE
BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

SCIENCE PREP ROOM 104A

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	FLOOR PLAN
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 / R3: DATE 3	FP4
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 / R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.



SCIENCE PREP ROOM 104A



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE
BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 / R3: DATE 3	R13
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 / R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324
BRIGHTON OFFICE:
8411 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4797

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.9

ART ROOM 106

PRODUCT LISTING

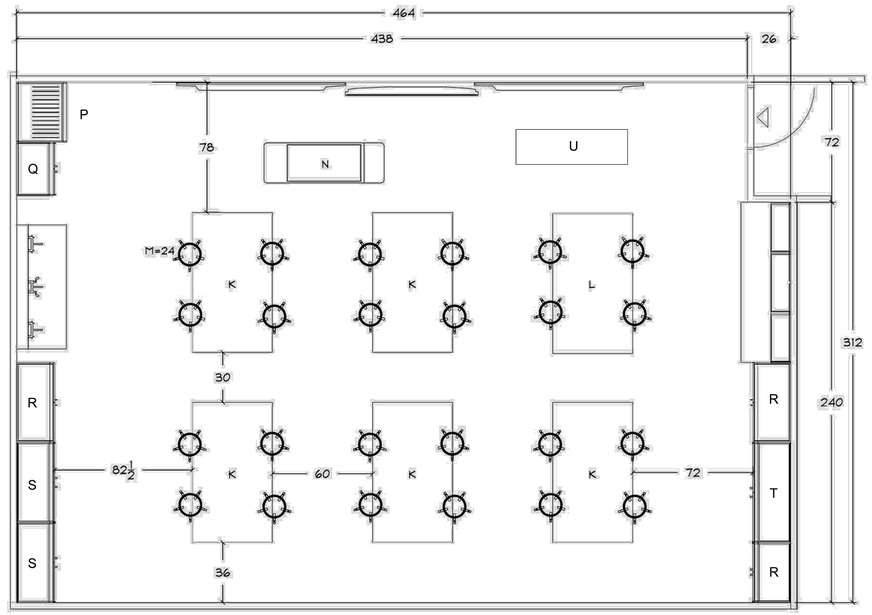
ART ROOM

LABEL	QTY	PRODUCT #	DESCRIPTION	DIMENSIONS
K	5	AFT8448236-CA	Avenuu A-Frame Tables: Laminate Tops, Edge Band, Metal Frame, Castes	84" x 48" x 36"
L	1	AFT8448230-CA	Avenuu A-Frame Tables: Laminate Tops, Edge Band, Metal Frame, Castes	84" x 48" x 30"
M	24	STL7186-AR5	Chroma Stools: Medium Height, Laminate Top, Black Edge	Seat Height 18-28"
N	1	4121_F	Mobile Station: Two Sliding Doors, 2 Tote Trays & Drop Leaf Extension, Laminate Top, Edge Band	72" w x 24" d x 36"
P	1	333-3630	Perspective Portfolio/ Canvas Storage Cabinet	36" w x 30" d x 84"
Q	1	DBC-1	Perspective Drawing Storage Cabinet	32" w x 22" d x 84"
R	3	GSC-36	Access Tall General Storage Cabinet	36"w x 22" d x 84"
S	2	GSC-22	Access Tall General Storage Cabinet	48" w x 22"d x 84"
T	1	GSC-21	Access Tall General Storage Cabinet	60" w x 22" d x 84"
U	1	TD6070-9095-AC	Jackson Teachers Desk: 2 Drawers, 3 File Drawers, Locks, Modesty Panel, Casters, HPL Top, TFL Casebody, Edge Band	60" w x 24" d x 30.13"

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	PRODUCT LIST
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 / R3: DATE 3	PL2
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 / R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

ART ROOM 106

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	FLOOR PLAN
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 / R3: DATE 3	FP5
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 / R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524
BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.10

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.

ART ROOM
CASEWORK: OAK
TABLES: BLACK TOPS, ROYAL BLUE EDGE
STOOLS: ROYAL BLUE TOPS, BLACK EDGE
DEMO STATION: BLACK TOP, ROYAL BLUE EDGE, OAK BASE



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

ART ROOM 106

DIVERSIFIED WOODCRAFTS, INC	**PROPRIETARY & CONFIDENTIAL STATEMENT:** This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .	PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
		CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 R3: DATE 3	R14
		CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
		s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

ART ROOM 106

DIVERSIFIED WOODCRAFTS, INC	**PROPRIETARY & CONFIDENTIAL STATEMENT:** This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .	PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
		CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 R3: DATE 3	R15
		CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
		s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.11



NOTE:
ALL UNLABELED SEATING, DECOR AND WALL FEATURES ARE
BY OTHERS. THESE ARE USED FOR VISUAL REFERENCE ONLY.

ART ROOM 106

DIVERSIFIED WOODCRAFTS, INC

PROPRIETARY & CONFIDENTIAL STATEMENT:
This document and the information, images and product disclosed within, including the document structure and contents, are confidential and the proprietary property of Diversified Wood Products . Any disclosure to a third party in whole or in part in any manner is expressly prohibited without the prior written permission of Diversified Wood Products .

PROJECT NAME: COLEMAN SCIENCE RMS	PROJECT NUMBER: 448325	REVISION DETAILS	RENDERINGS
CUSTOMER NAME: DE-WEL	DRAWN BY: Trish Smith	R1: 10.1.25 R3: DATE 3	R16
CUSTOMER CONTACT: CASSY CALAHAN	DATE: 8/22/2025	R2: 10.20.25 R4: DATE 4	
s:\Cabinet Group_Projects_2025\Diversified Woodcrafts, Inc\Coleman Science Rooms_448325\R3_10.21.25\DWI_448325R3_COLEMAN SCIENCE RMS_10.2025_DP.cmdrw			

RENDERINGS INCLUDED ON THESE SHEETS ARE REPRESENTATIVE OF CASEWORK, CABINETRY, AND EQUIPMENT LAYOUT ONLY. ANY SHOWN SEATING, WALL/FLOOR/CEILING FINISHES, DECORATION, OR EQUIPMENT NOT LABELED ON ROOM FLOOR PLAN ARE NOT INCLUDED IN SPECIALTY EQUIPMENT DRAWINGS AND ARE SHOWN FOR VISUAL APPEAL ONLY.

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4448
FAX: (906)228-7324

BRIGHTON OFFICE:
6513 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
0	FOR CONSTRUCTION	11-5-25

	BY	DATE
DESIGN	---	---
DRAWN	---	---
CHECKED	---	---
APPROVED	---	---

SPECIALTY CASEWORK
&
SPECIALTY EQUIPMENT

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

SP1.12

ABBREVIATIONS

ABBREVIATION	DESCRIPTION
AAV	AUTOMATIC AIR VENT / AIR ADMITTANCE VALVE
AD	ACCESS DOOR
AE	AIR EXTRACTOR
AFF	ABOVE FINISHED FLOOR
APD	AIR PRESSURE DROP
ASR	AUTOMATIC SPRINKLER RISER
BD	BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BOD	BOTTOM OF DUCT
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
BWV	BACKWATER VALVE
CAP	CAPACITY
CAV	CONSTANT AIR VOLUME
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CIRC	CIRCULATING
CLG	COOLING
CO	CLEANOUT
CONT	CONTINUATION / CONTINUED
CONV	CONVECTOR
CUH	CABINET UNIT HEATER
CV	CONTROL VALVE
DB	DRY BULB TEMPERATURE
DEG	DEGREE
DDC	DIRECT DIGITAL CONTROL
DN	DOWN
DTC	DRAIN TILE CONNECTION
DWH	DOMESTIC WATER HEATER
(E)	EXISTING
EA / EX	EXHAUST AIR
EA	ENTERING AIR
EDB	ENTERING DRY BULB
EF	EXHAUST FAN
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
EM	ENERGY MANAGEMENT
ESP	EXTERNAL STATIC PRESSURE
EWB	ENTERING WET BULB
EWH	ELECTRIC WATER HEATER
°F	DEGREES FAHRENHEIT
F	FIRE
FA	FREE AREA (LOUVER) / FACE AREA (COIL)
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FFD	FUNNEL FLOOR DRAIN
FLA	FULL LOAD AMPS
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
GAL	GALLONS
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GRD	GRILLE, REGISTER, DIFFUSER
HB	HOSE BIBB
HD	HUB DRAIN
HP	HORSEPOWER
HR	HOUR
HTG	HEATING
HYD	HYDRANT
HZ	HERTZ
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCHES

ABBREVIATIONS CONT.

ABBREVIATION	DESCRIPTION
INV	INVERT
ISP	INTERNAL STATIC PRESSURE
IW	INDIRECT WASTE
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LBS / HR	POUNDS PER HOUR
LDB	LEAVING DRY BULB TEMPERATURE
LRA	LOCKED ROTOR AMPS
LWB	LEAVING WET BULB TEMPERATURE
MAV	MANUAL AIR VENT
MAX	MAXIMUM
MBH	1,000 BRITISH THERMAL UNITS PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINUMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER (AUTOMATIC)
MOP	MAXIMUM OVER-CURRENT PROTECTION
N.C.	NOISE CRITERIA
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
ORS	OVERFLOW ROOF SUMP
OS&Y	OUTSIDE SCREW AND YOKE
PD	PRESSURE DROP (FEET OF WATER)
PRV	PRESSURE REDUCING VALVE
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
PT	PRESSURE / TEMPERATURE PORT
RA	RETURN AIR
RD	ROOF DRAIN
REL. A	RELIEF AIR
REQ	REQUIRE
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
SA	SUPPLY AIR
SH	SHOWER
SP	STATIC PRESSURE
SQFT / SF	SQUARE FOOT / SQUARE FEET
SS	SERVICE SINK
T	TEMPERATURE
T&P	TEMPERATURE AND PRESSURE
TS	TOTAL STATIC
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VD	VOLUME DAMPER (MANUALLY ADJUSTABLE)
VFD	VARIABLE FREQUENCY DRIVE
VTR	VENT THRU ROOF
W	WASTE
W&V	WASTE & VENT
WB	WET BULB TEMPERATURE
WC	WATER CLOSET
WG	WATER GAUGE
WH	WATER HEATER

MECHANICAL SYMBOLS

SYMBOL	DESCRIPTION
	RECTANGULAR TAKE-OFF
	ROUND TAKE-OFF
	RECTANGULAR ELBOW (WITH TURNING VANES)
	RECTANGULAR RADIUS ELBOW
	ROUND RADIUS ELBOW
	RECTANGULAR ELBOW UP
	ROUND ELBOW UP
	RECTANGULAR ELBOW DOWN
	ROUND ELBOW DOWN
	CONCENTRIC TRANSITION
	ECCENTRIC TRANSITION
R	INCLINED RISE IN DIRECTION OF AIRFLOW
D	INCLINED DROP IN DIRECTION OF AIRFLOW
	FLEXIBLE CONNECTION
	FLEXIBLE DUCT CONNECTION
	SUPPLY DIFFUSER
	LINEAR SLOT DIFFUSER
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	TRANSFER GRILLE
	SUPPLY DUCT CROSS SECTION
	RETURN DUCT CROSS SECTION
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE / SMOKE DAMPER
	VOLUME DAMPER (MANUALLY ADJUSTABLE)
M	MOTORIZED DAMPER
SD	SMOKE DETECTOR
CO_2	CARBON DIOXIDE SENSOR
T	THERMOSTAT OR TEMPERATURE SENSOR
H	HUMIDISTAT OR HUMIDITY SENSOR
S	SENSOR
	RETURN OR EXHAUST / SUPPLY AIR FLOW
DG	DOOR GRILLE
UC 1"	UNDERCUT DOOR 1"

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	PIPE ELBOW UP
	PIPE ELBOW DOWN
	PIPE TEE TOWN
	DIRECTION OF FLOW
	UNION
	STRAINER
	REDUCER
	EXPANSION JOIN
	FLEXIBLE CONNECTION
	PIPE ANCHOR
	PIPE GUIDE
	PIPE CAP OR PLUG
	GATE VALVE
	PUMP
	GLOBE VALVE
	BALL VALVE
	BUTTERFLY VALVE
	ANGLE VALVE
	CHECK VALVE
	PLUG VALVE
	OUTSIDE SCREW AND YOKE VALVE (OS&Y)
	THERMOMETER
	PRESSURE REGULATING VALVE
	SOLENOID VALVE
	CONTROL VALVE (2-WAY / 3-WAY)
	CENTRIFUGAL FAN
	FLOOR DRAIN
	FLOOR DRAIN
	ROOF SUMP / DRAIN
FCO	FLOOR CLEAN OUT
CO	CLEAN OUT (IN LINE)
WCO	WALL CLEAN OUT
M	WATER METER ASSEMBLY
	HOSE BIBB / WALL HYDRANT
	SPRINKLER HEAD (PENDANT)
	SPRINKLER HEAD (UPRIGHT)
	SPRINKLER HEAD (SIDE WALL)
IN./FT.	SLOPE
FS	FLOW SWITCH
	SIAMESE CONNECTION (YARD)
	SIAMESE CONNECTION (WALL MOUNTED)
	COMBINATION FLOW MEASURING AND BALANCING DEVICE
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	HOSE END VALVE
	SAFETY RELIEF VALVE
	PRESSURE GAUGE
	BALANCING COCK
	STRAINER W/ BLOW OFF VALVE

DRAWING NOTATION

SYMBOL	DESCRIPTION
0	KEY NOTE
RTU-1	EQUIPMENT DESIGNATION AND NUMBER
A NECK SIZE / CFM	AIR TERMINAL TAG
A 0 GPM	BASEBOARD RADIATION TAG (TYPE OVER LENGTH OF ELEMENT)
	EXISTING DEVICES OR EQUIPMENT
	NEW OR MODIFIED DEVICES OR EQUIPMENT
0	REVISIONS
	POINT OF NEW CONNECTION TO EXISTING
	SUPPLY DIFFUSER, DARKENED AREAS SIGNIFY BLANKED OFF SECTIONS
NAME / 000	ROOM NAME AND NUMBER
0 / M0.0	SECTION CUT (NUMBER OF SECTION - TOP / CORRESPONDING SHEET - BOTTOM)
0 / M0.0	DETAIL (NUMBER OF DETAIL - TOP / CORRESPONDING SHEET - BOTTOM)
0 / A0.0	ENLARGED VIEW (NUMBER OF VIEW - TOP / CORRESPONDING SHEET - BOTTOM)

PIPING LEGEND

SYMBOL	DESCRIPTION
AW	ACID WASTE
CHWR OR CR	CHILLED OR CONDENSER WATER RETURN
CHWS OR CS	CHILLED OR CONDENSER WATER RETURN
CA	COMPRESSED AIR
D	CONDENSATE / EQUIPMENT DRAIN
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER
HWR	DOMESTIC HOT WATER RECIRC.
DT	DRAIN TILE
F	FIRE PROTECTION
HWR OR HPR	HEATING WATER OR HEAT PUMP RETURN
HWS OR HPS	HEATING WATER OR HEAT PUMP SUPPLY
HGB	HOT GAS BYPASS
MA	MEDICAL AIR
G	NATURAL GAS
N	NATURAL GAS
O	OXYGEN GAS
LP	PROPANE
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
SAN	SANITARY WASTE
SAN	SANITARY WASTE UNDERGROUND
STEAM	STEAM
COND	STEAM CONDENSATE
ST	STORM SEWER
ST	STORM SEWER UNDERGROUND
T	TEMPERED WATER
VAC	VACUUM
V	VENT

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BIRCH RUN OFFICE:
8725 MAIN STREET, SUITE 600
BIRCH RUN, MI 48415
PHONE: (810)229-2701
FAX: (810)229-4767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

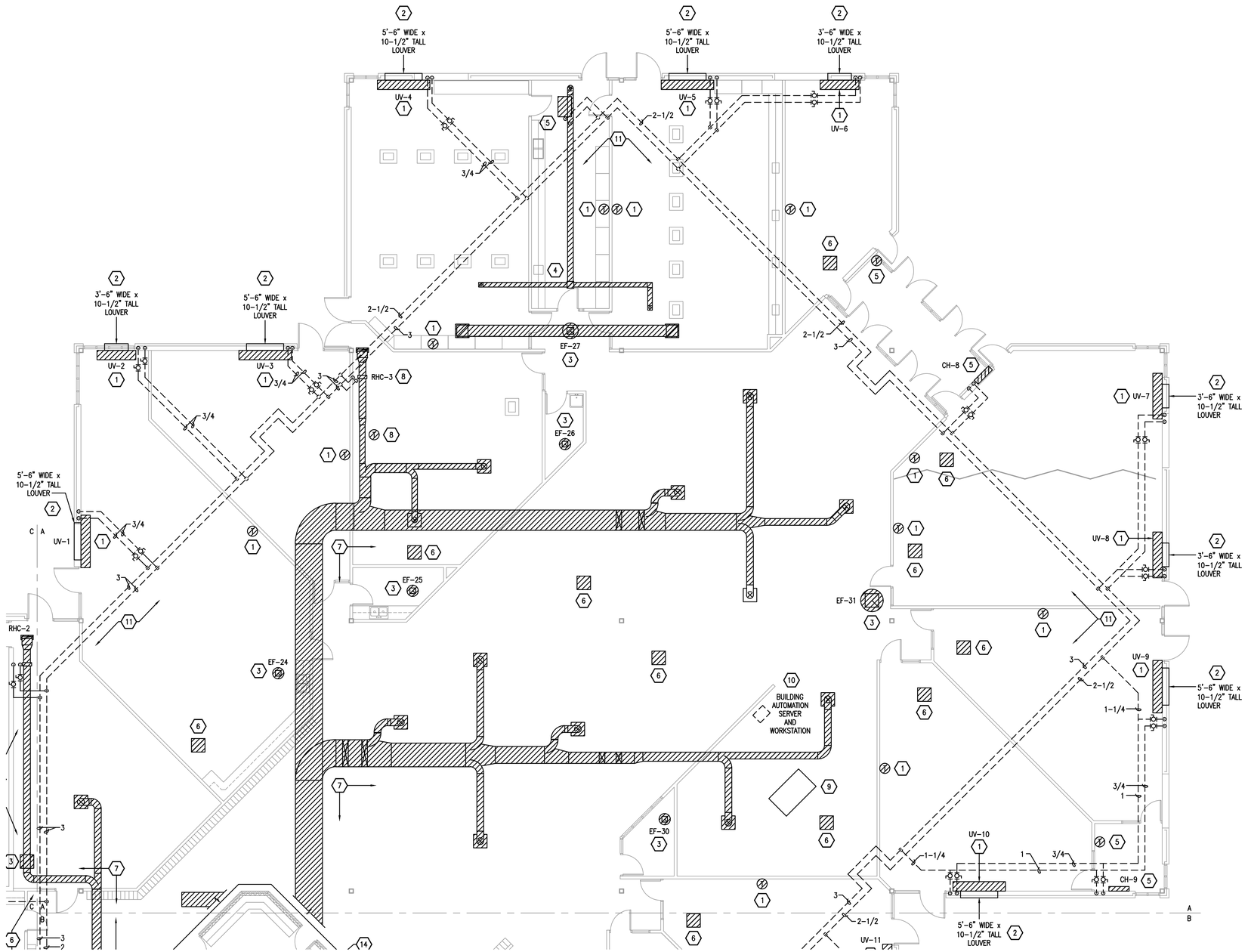
NO.	REVISIONS	DATE	BY
B	DESIGN DEVELOPMENT	07.24.25	CRP
0	FOR CONSTRUCTION	10.23.25	CRP

DESIGN SLB
DRAWN SLB
CHECKED SLB
APPROVED SLB

MECHANICAL & PLUMBING
SYMBOLS & LEGENDS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

MP0.0



MECHANICAL DEMOLITION PLAN - AREA 'A'

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

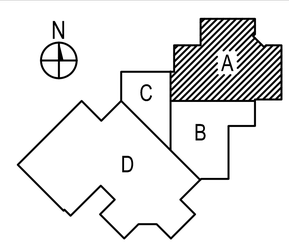
KEYNOTES

1. REMOVE UNIT VENTILATOR ENTIRELY, INCLUDING PIPING, CONTROLS, ETC. PIPING IN EXTERIOR WALL SHALL BE ABANDONED AND OPEN ENDS CAPPED. WALL PATCHING BY OTHERS. SEE ARCHITECTURAL PLANS.
2. REMOVE UNIT VENTILATOR WALL SLEEVE AND LOUVER. WALL PATCHING BY OTHERS.
3. REMOVE ALL EXHAUST DUCT, GRILLES, DAMPER, FAN CONTROLS AND ROOF CURB COMPLETE. COORDINATE ROOF PATCHING WITH MANUFACTURER'S WARRANTY.
4. REMOVE ALL RELIEF DUCT, GRILLES, DAMPER, AND ROOF CURB COMPLETE. COORDINATE ROOF PATCHING WITH MANUFACTURER'S WARRANTY.
5. REMOVE CABINET HEATER ENTIRELY, INCLUDING CONTROLS. ABANDON PIPING CONCEALED IN WALLS AND CAP OPEN ENDS OF PIPE.
6. REMOVE GRILLE, REGISTER, OR DIFFUSER.
7. REMOVE ALL SUPPLY DUCT AND DIFFUSERS.
8. REMOVE DUCT HEATING COILS, INCLUDING PIPING, CONTROLS, ETC.
9. REMOVE ROOFTOP UNIT ENTIRELY, INCLUDING PIPING, CONTROLS, DUCT AND DIFFUSERS, AND ROOF CURB. COORDINATE ROOF PATCHING WITH MANUFACTURER'S WARRANTY.
10. SALVAGE BUILDING AUTOMATION SERVER AND WORKSTATION AND STORE FOR REUSE/RELOCATION.
11. REMOVE ALL HEATING PIPING.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. MECHANICAL DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND DISCUSSIONS WITH OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS AND NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. REMOVE ALL ABANDONED PIPE, DUCT, DEVICES AND MECHANICAL EQUIPMENT COMPLETELY INCLUDING ALL HANGERS, BASES, SUPPORTS AND ANCHORS WHEN DEMOLISHING MECHANICAL SYSTEMS NOTED TO BE REMOVED.
7. CONTRACTOR SHALL PATCH ALL OPENINGS CREATED BY THE REMOVAL OF MECHANICAL UNITS. PATCHING SHALL RESTORE CONSTRUCTION TO MATCH ADJACENT ASSEMBLIES IN MATERIAL, FINISH, AND FIRE-RESISTANCE RATING WHERE APPLICABLE. PROVIDE CONTINUOUS THERMAL AND VAPOR INSULATION EQUAL TO ADJACENT CONSTRUCTION. SEAL AIRTIGHT.
8. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
9. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
10. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
11. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
12. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8001 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4797

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

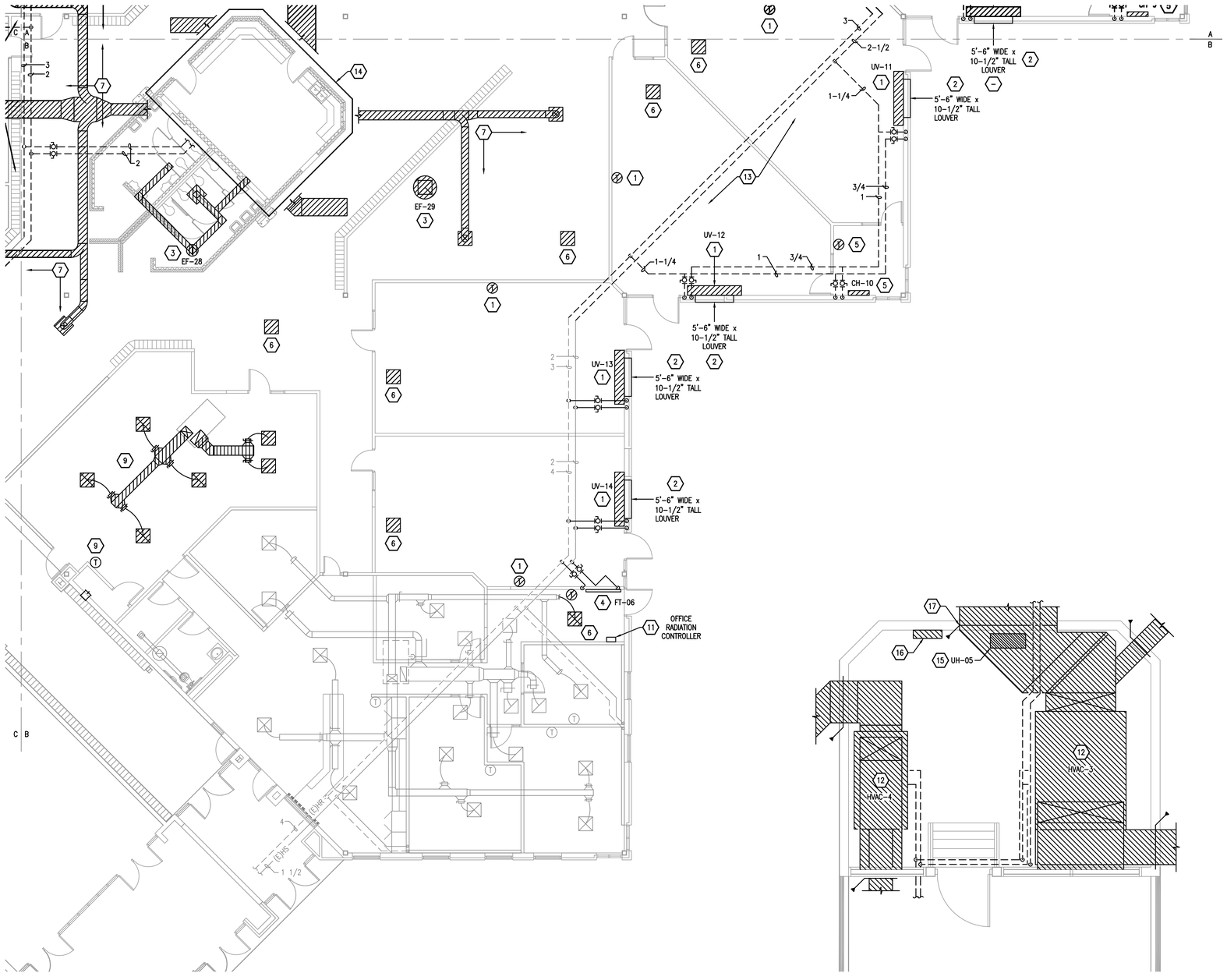
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

MECHANICAL
DEMOLITION PLAN
AREA 'A'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M1.0



MECHANICAL DEMOLITION PLAN - AREA 'B'

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

MECHANICAL DEMOLITION PLAN - LOFT

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

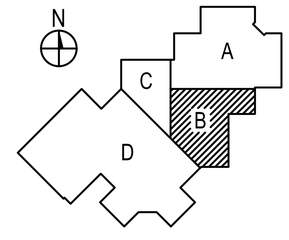
KEYNOTES

1. REMOVE UNIT VENTILATOR ENTIRELY, INCLUDING PIPING, CONTROLS, ETC. PIPING IN EXTERIOR WALL SHALL BE ABANDONED AND OPEN ENDS CAPPED. WALL PATCHING BY OTHERS. SEE ARCHITECTURAL PLANS.
2. REMOVE UNIT VENTILATOR WALL SLEEVE AND LOUVER. WALL PATCHING BY OTHERS.
3. REMOVE ALL EXHAUST DUCT, GRILLES, DAMPER, FAN CONTROLS AND CURB COMPLETE.
4. REMOVE FINNED TUBE RADIATOR ENTIRELY, INCLUDING PIPING, CONTROLS, ETC.
5. REMOVE CABINET HEATER ENTIRELY, CONTROLS. ABANDON PIPING CONCEALED IN WALLS AND CAP OPEN ENDS OF PIPE.
6. REMOVE GRILLE, REGISTER, OR DIFFUSER.
7. REMOVE ALL SUPPLY DUCT AND DIFFUSERS.
8. REMOVE DUCT HEATING COILS, INCLUDING PIPING, CONTROLS, ETC.
9. REMOVE ALL SUPPLY AND RETURN DUCT AND DIFFUSERS DOWNSTREAM OF ROOFTOP UNIT. SALVAGE SECTIONS OF DUCT THROUGH ROOF AND PREP FOR NEW CONNECTIONS. REMOVE AND SALVAGE THERMOSTAT FOR RELOCATION. ROOFTOP UNIT SHALL REMAIN FOR REUSE.
10. SALVAGE BUILDING AUTOMATION SERVER AND WORKSTATION AND STORE FOR REUSE/RELOCATION.
11. SALVAGE OFFICE RADIATION CONTROLLER AND STORE FOR REUSE/RELOCATION.
12. REMOVE AIR HANDLING UNIT ENTIRELY, INCLUDING PIPING, DUCT, CONTROLS, FIRE DAMPERS, ETC. WALL PATCHING BY ARCHITECT.
13. REMOVE ALL HEATING PIPING TO POINT SHOWN.
14. REFER TO ENLARGED PLAN THIS SHEET.
15. REMOVE UNIT HEATER AND ASSOCIATED PIPING COMPLETE.
16. REMOVE MECHANICAL EQUIPMENT CONTROLLERS AND CONTROL PANEL, WIRING, CONDUIT, ETC.
17. REMOVE FIRE DAMPER IN WALL. MAINTAIN EXISTING WALL OPENING FOR POTENTIAL REUSE. REFER TO NEW WORK PLANS.
18. REMOVE GRILLE AND ASSOCIATED DUCTWORK FROM CORRIDOR WALL. COORDINATE WALL PATCHING WITH ARCHITECT.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. MECHANICAL DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND DISCUSSIONS WITH OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS AND NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. REMOVE ALL ABANDONED PIPE, DUCT, DEVICES AND MECHANICAL EQUIPMENT COMPLETELY INCLUDING ALL HANGERS, BASES, SUPPORTS AND ANCHORS WHEN DEMOLISHING MECHANICAL SYSTEMS NOTED TO BE REMOVED.
7. CONTRACTOR SHALL PATCH ALL OPENINGS CREATED BY THE REMOVAL OF MECHANICAL UNITS. PATCHING SHALL RESTORE CONSTRUCTION TO MATCH ADJACENT ASSEMBLIES IN MATERIAL, FINISH, AND FIRE-RESISTANCE RATING WHERE APPLICABLE. PROVIDE CONTINUOUS THERMAL AND VAPOR INSULATION EQUAL TO ADJACENT CONSTRUCTION. SEAL AIRTIGHT.
8. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
9. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
10. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
11. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
12. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4488
FAX: (906)228-7324

BIRGHTON OFFICE:
8000 ENGINEER DR. 200 ENGINEER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

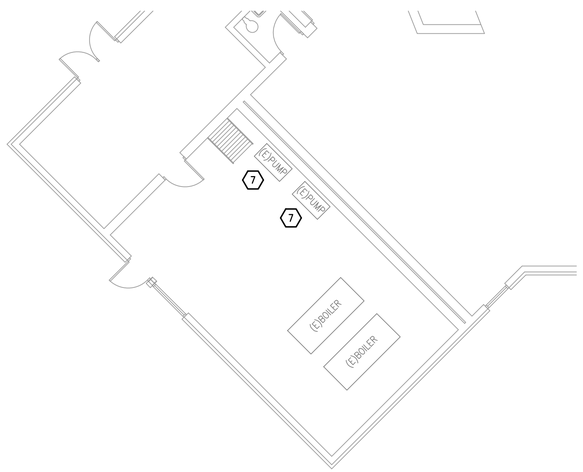
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	
DRAWN	CRP
CHECKED	CRP
APPROVED	SLB
	SLB

MECHANICAL
DEMOLITION PLAN
AREA 'B'

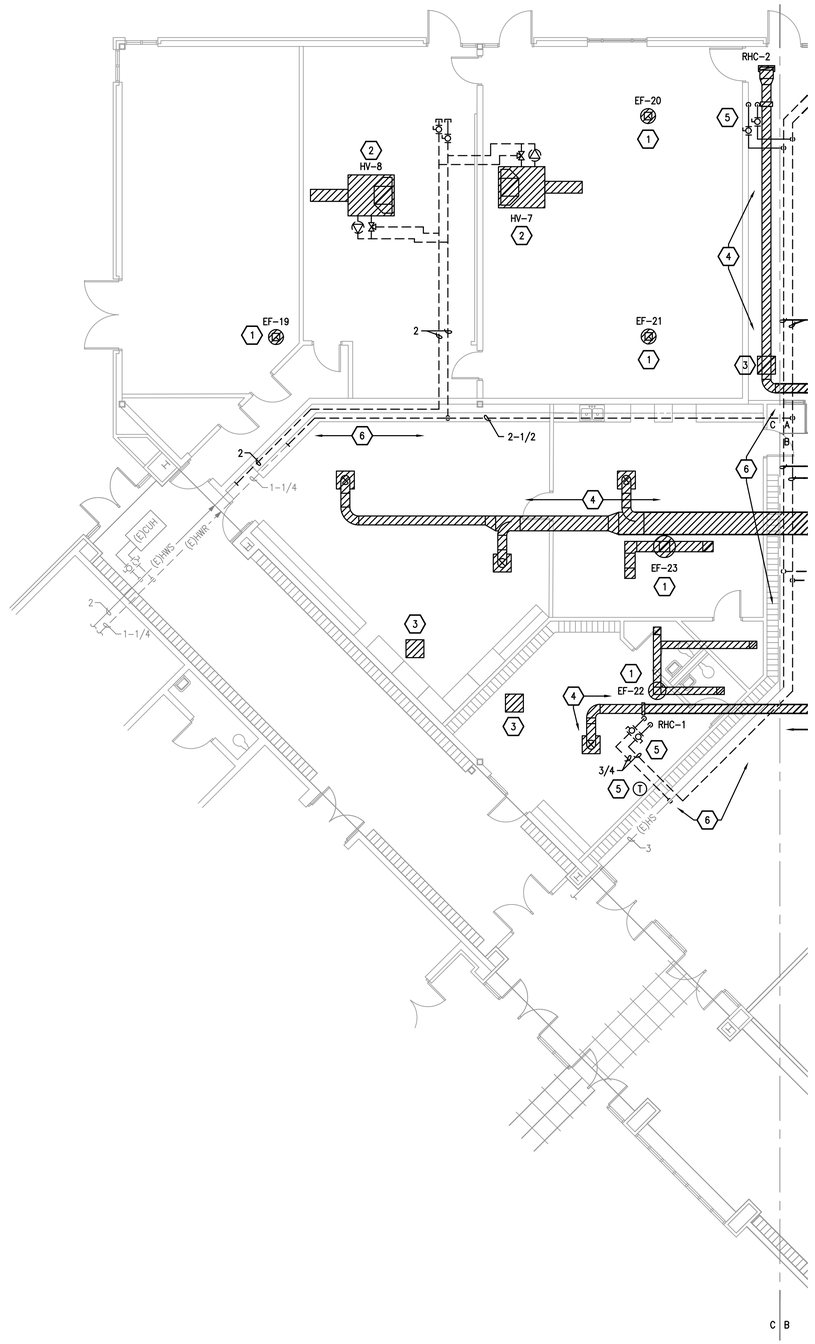
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M1.1



MECHANICAL DEMOLITION PLAN - BOILER ROOM

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



MECHANICAL DEMOLITION PLAN - AREA 'C'

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

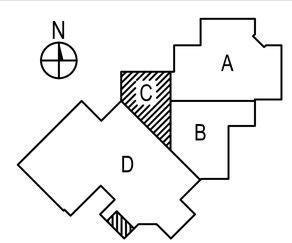
KEYNOTES

1. REMOVE ALL EXHAUST DUCT, GRILLES, DAMPER, FAN CONTROLS AND CURB COMPLETE.
2. REMOVE AIR HANDLING UNIT ENTIRELY, INCLUDING PIPING, DUCT, CONTROLS, ETC.
3. REMOVE GRILLE, REGISTER, OR DIFFUSER.
4. REMOVE ALL SUPPLY DUCT AND DIFFUSERS.
5. REMOVE DUCT HEATING COILS, INCLUDING PIPING, CONTROLS, ETC.
6. REMOVE ALL HEATING PIPING BACK TO POINT SHOWN.
7. EXISTING BASE MOUNTED END SUCTION PUMP. REPLACE IMPELLER.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. MECHANICAL DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND DISCUSSIONS WITH OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS AND NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. REMOVE ALL ABANDONED PIPE, DUCT, DEVICES AND MECHANICAL EQUIPMENT COMPLETELY INCLUDING ALL HANGERS, BASES, SUPPORTS AND ANCHORS WHEN DEMOLISHING MECHANICAL SYSTEMS NOTED TO BE REMOVED.
7. CONTRACTOR SHALL PATCH ALL OPENINGS CREATED BY THE REMOVAL OF MECHANICAL UNITS. PATCHING SHALL RESTORE CONSTRUCTION TO MATCH ADJACENT ASSEMBLIES IN MATERIAL, FINISH, AND FIRE-RESISTANCE RATING WHERE APPLICABLE. PROVIDE CONTINUOUS THERMAL AND VAPOR INSULATION EQUAL TO ADJACENT CONSTRUCTION. SEAL AIRTIGHT.
8. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
9. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
10. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
11. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
12. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4484
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

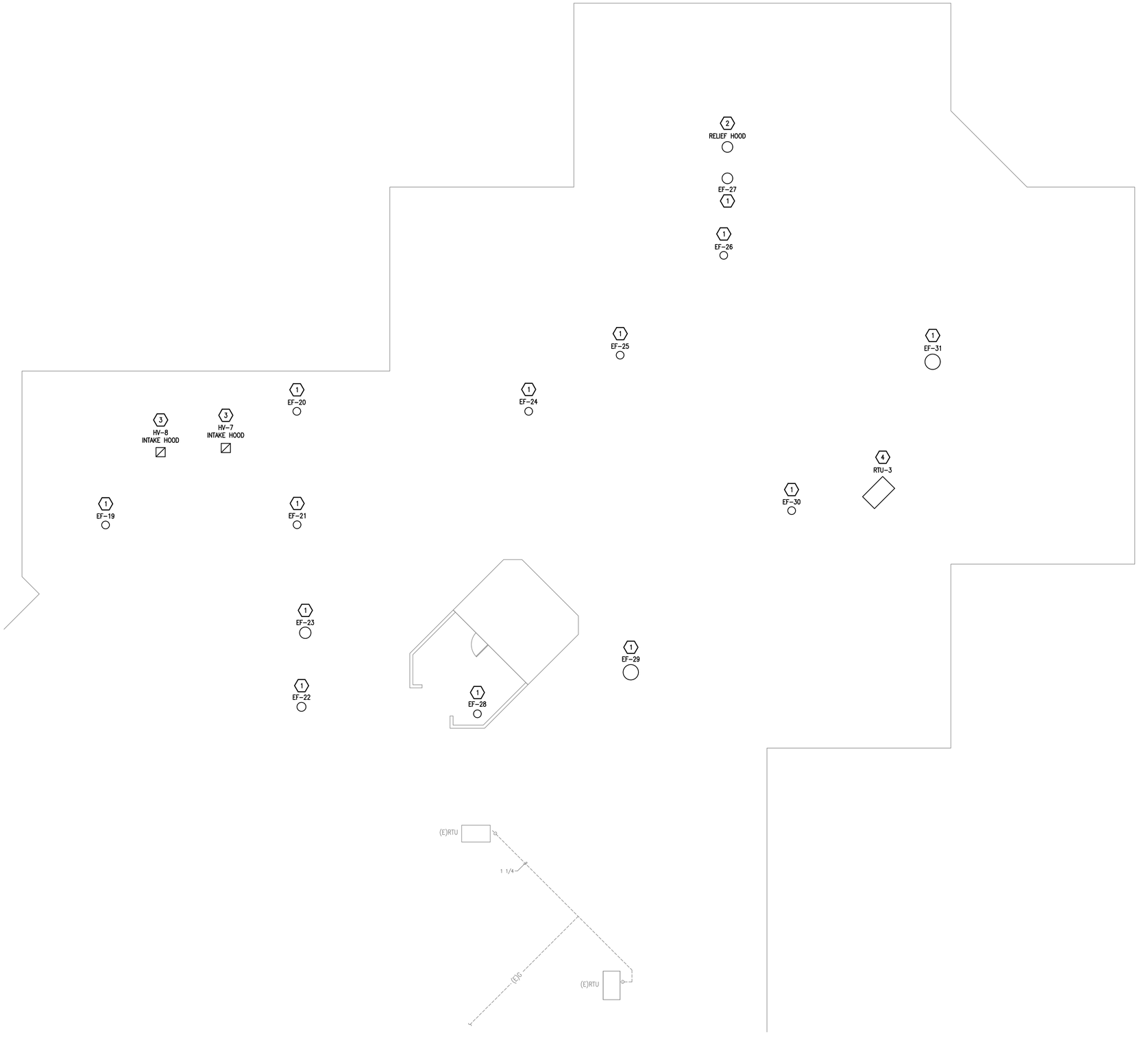
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

MECHANICAL
DEMOLITION PLANS
AREA 'C' & 'D'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M1.2



MECHANICAL DEMOLITION PLAN - ROOF

SCALE: 3/32" = 1'-0"

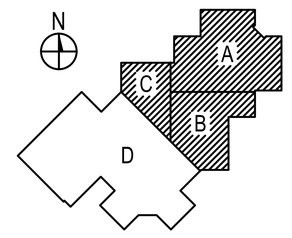
KEYNOTES

1. REMOVE EXHAUST FAN ENTIRELY, INCLUDING CURB, DAMPER AND CONTROLS. COORDINATE PATCHING OF ROOF WITH ROOFING MANUFACTURER'S WARRANTY.
2. REMOVE RELIEF HOOD ENTIRELY. COORDINATE PATCHING OF ROOF WITH ROOFING MANUFACTURER'S WARRANTY.
3. REMOVE INTAKE HOOD ENTIRELY. COORDINATE PATCHING OF ROOF WITH ROOFING MANUFACTURER'S WARRANTY.
4. REMOVE ROOFTOP UNIT ENTIRELY, INCLUDING SECTION OF GAS PIPE AS SHOWN. COORDINATE PATCHING OF ROOF WITH ROOFING MANUFACTURER'S WARRANTY.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. MECHANICAL DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND DISCUSSIONS WITH OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS AND NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. REMOVE ALL ABANDONED PIPE, DUCT, DEVICES AND MECHANICAL EQUIPMENT COMPLETELY INCLUDING ALL HANGERS, BASES, SUPPORTS AND ANCHORS WHEN DEMOLISHING MECHANICAL SYSTEMS NOTED TO BE REMOVED.
7. CONTRACTOR SHALL PATCH ALL OPENINGS CREATED BY THE REMOVAL OF MECHANICAL UNITS. PATCHING SHALL RESTORE CONSTRUCTION TO MATCH ADJACENT ASSEMBLIES IN MATERIAL, FINISH, AND FIRE-RESISTANCE RATING WHERE APPLICABLE. PROVIDE CONTINUOUS THERMAL AND VAPOR INSULATION EQUAL TO ADJACENT CONSTRUCTION. SEAL AIRTIGHT.
8. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
9. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
10. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
11. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
12. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4797

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

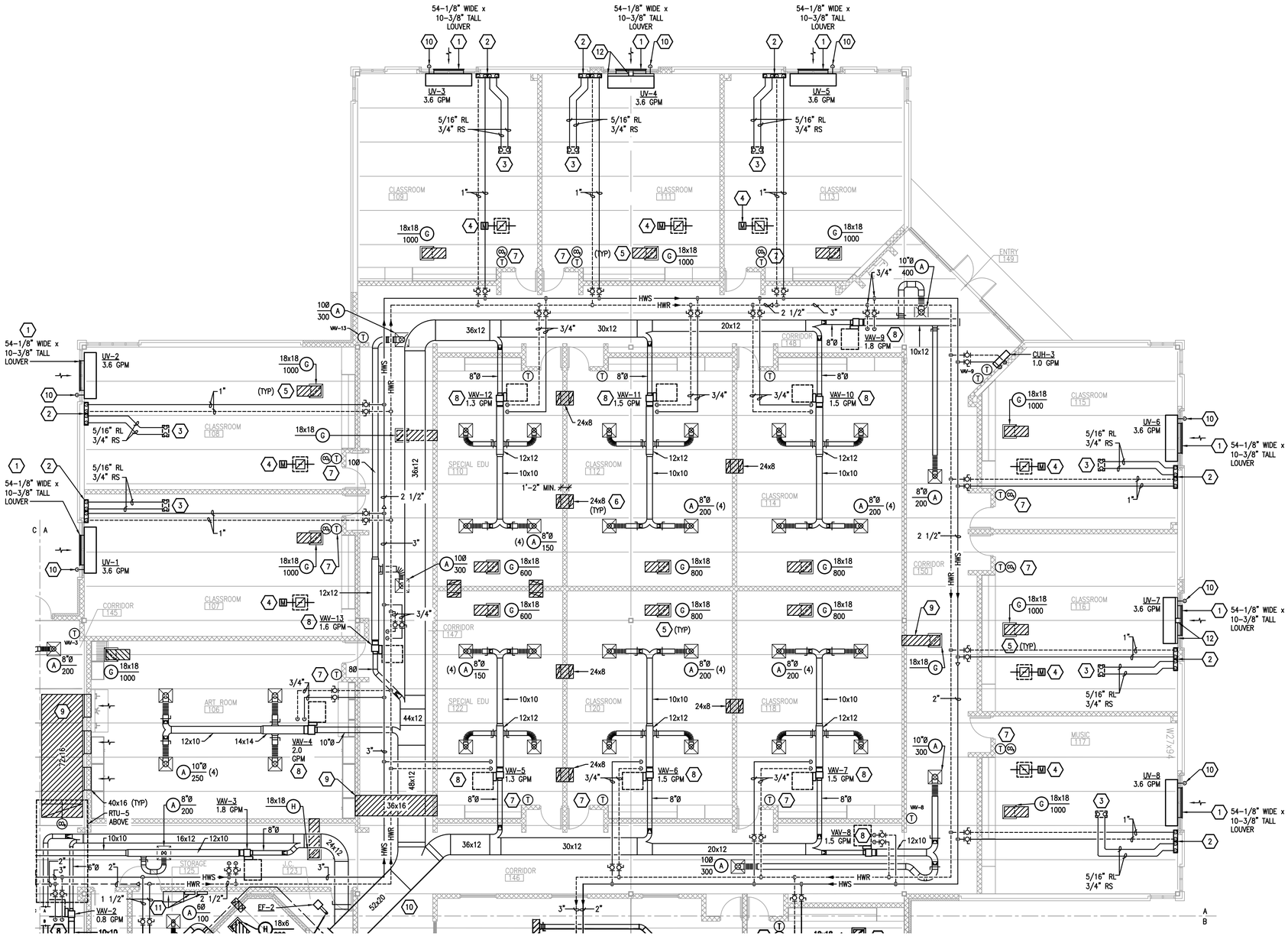
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

MECHANICAL
DEMOLITION PLAN
ROOF

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M1.3



MECHANICAL NEW WORK PLAN - AREA 'A'

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

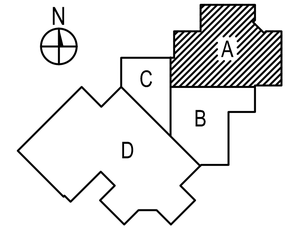
KEYNOTES

1. MANUFACTURER FURNISHED OUTSIDE AIR LOUVER WITH VERTICAL BLADES, DECORATIVE PERFORATED GRILLE, AND NO FLANGE. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND STRUCTURAL ENGINEER ON LINTEL REQUIREMENTS. REFER TO "UNIT VENTILATOR INSTALLATION DETAILS" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
2. INSTALL HEATING AND REFRIGERANT PIPING DOWN FACE OF WALL WITHIN SHEET METAL ENCLOSURE. TERMINATE ENCLOSURE JUST ABOVE CEILING AND FLUSH WITH SIDE OF UNIT VENTILATOR. INSTALL IN A CLEAN AND ORDERLY FASHION. REFER TO 'PIPE ENCLOSURE' SECTION OF "UNIT VENTILATOR INSTALLATION DETAILS" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
3. INSTALL REFRIGERANT THROUGH ROOF AND SEAL WATER TIGHT. REFER TO 'REFRIGERANT PIPE CHASE AND HOUSING' SECTION OF "UNIT VENTILATOR INSTALLATION DETAILS" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
4. INSTALL RELIEF HOOD IN ROOF WITH DRIP PAN BELOW. REFER TO "NON-DUCTED GRAVITY RELIEF HOOD DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
5. INSTALL PLENUM RETURN BOOT IN CEILING WITH 1/2" ACOUSTICAL DUCT LINER. REFER TO "PLENUM RETURN GRILLE/BOOT DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION. (TYP)
6. ACOUSTICALLY LINED "CROSS TALK" SILENCERS, PRICE "XT" OR EQUIVALENT. INSTALL ABOVE CEILING, TURNED UP. FURNISH DUCT HANGERS AS NEEDED. PACK VOID BETWEEN DUCT AND WALL WITH MEDIA AND FURNISH SUPPORT ANGLES AND CLOSURE FLASHING. (TYP)
7. PROVIDE 1" INSULATED SUB-BASE ON THERMOSTAT. INSTALL BOTTOM OF THERMOSTAT APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH WALL SWITCHES. RUN LOW VOLTAGE WIRING WITHIN CONDUIT IN WALL CAVITY.
8. SUSPEND VAV BOXES TIGHT TO BOTTOM OF STEEL JOISTS WHILE MAINTAINING MANUFACTURER'S REQUIRED CLEARANCES. PROVIDE A MINIMUM 1.5 DUCT DIAMETERS OF STRAIGHT DUCT RUN PRIOR TO THE INLET OF THE UNIT. MODIFY COIL SIDE AS NEEDED. MAINTAIN PROPER CLEARANCES TO THE CONTROL BOX (NOTED WITH DASHED BOX). REFER TO "TERMINAL UNIT (VAV) PIPING DIAGRAM" ON SHEET M3.1 FOR ADDITIONAL INFORMATION.
9. HATCHED DUCT REPRESENTS 1/2" ACOUSTICAL LINER ADDED TO INTERIOR OF DUCT. DIMENSIONS SHOWN ARE CLEAR INSIDE DUCT OPENING. (TYP)
10. TERMINATE CONDENSATE DRAIN OUTSIDE WITH 45 DEGREE COPPER ELBOW DOWN. EXTEND A MINIMUM 1-1/2" PAST WALL. (TYP)
11. ELECTRICAL PANELS. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS.
12. FOR UNIT VENTILATORS INSTALLED UP AGAINST STEEL COLUMNS INSTALL SHEET METAL ENCLOSURE ON TOP AND SIDES OF UNIT, SIZED TO MATCH UNIT VENTILATOR DIMENSIONS, WITH FLANGES BENT INWARDS TO PREVENT INJURY TO STUDENTS, AND PAINTED TO MATCH UNIT OR WALL. FULLY INSULATE WITH BATT INSULATION TO PREVENT TRANSFER OF AIR TO CLASSROOM WITHOUT BLOCKING FRESH AIR OPENING.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE MECHANICAL SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF OR ABOVE ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
5. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH ARCHITECTURAL TRADES.
6. ALL THERMOSTATS OR TEMPERATURE SENSORS MOUNTED ON EXTERIOR WALLS SHALL BE PROVIDED WITH INSULATED BASES.
7. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
8. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS AND VALVES LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT.
9. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT REFER TO PIPING DIAGRAMS AND DETAILS.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8100 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

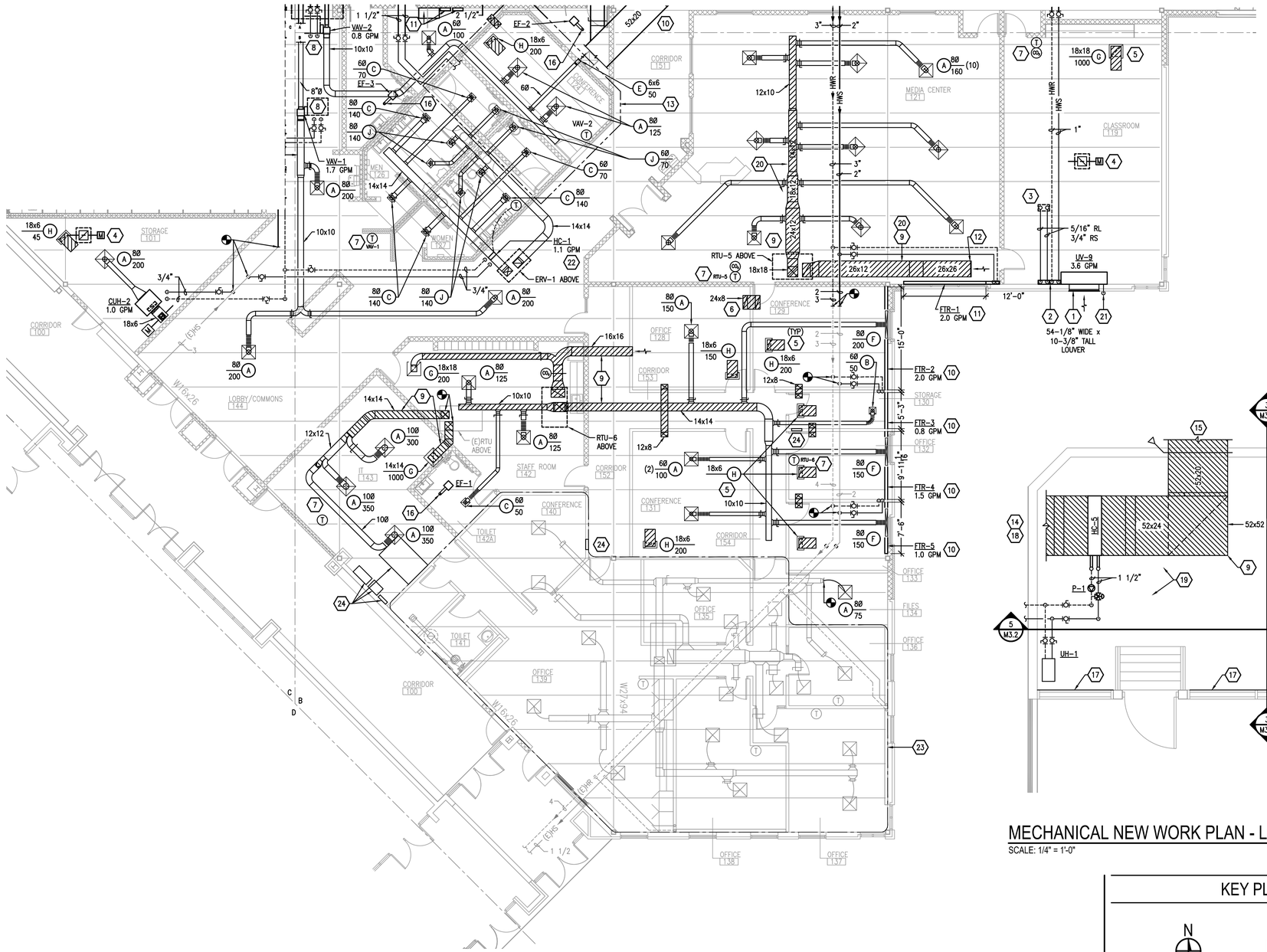
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

BY	
CRP	DESIGN
CRP	DRAWN
SLB	CHECKED
SLB	APPROVED

MECHANICAL
NEW WORK PLAN
AREA 'A'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M2.0



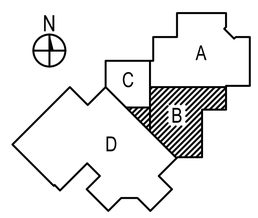
MECHANICAL NEW WORK PLAN - AREA 'B'

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

MECHANICAL NEW WORK PLAN - LOFT

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

KEY PLAN



KEYNOTES

1. MANUFACTURER FURNISHED OUTSIDE AIR LOUVER WITH VERTICAL BLADES, DECORATIVE PERFORATED GRILLE, AND NO FLANGE. COORDINATE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND STRUCTURAL ENGINEER ON LINTEL REQUIREMENTS. REFER TO "UNIT VENTILATOR INSTALLATION DETAILS" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
2. INSTALL HEATING AND REFRIGERANT PIPING DOWN FACE OF WALL WITHIN SHEET METAL ENCLOSURE. TERMINATE ENCLOSURE JUST ABOVE CEILING AND FLUSH WITH SIDE OF UNIT VENTILATOR. INSTALL IN A CLEAN AND ORDERLY FASHION. REFER TO "PIPE ENCLOSURE" SECTION OF "UNIT VENTILATOR INSTALLATION DETAILS" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
3. INSTALL REFRIGERANT THROUGH ROOF AND SEAL WATER TIGHT. REFER TO "REFRIGERANT PIPE CHASE AND HOUSING" SECTION OF "UNIT VENTILATOR INSTALLATION DETAILS" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
4. INSTALL RELIEF HOOD IN ROOF WITH DRIP PAN BELOW. REFER TO "NON-DUCTED GRAVITY RELIEF HOOD DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
5. INSTALL PLENUM RETURN BOOT IN CEILING WITH 1/2" ACOUSTICAL DUCT LINER. REFER TO "PLENUM RETURN GRILLE/BOOT DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION. (TYP)
6. ACOUSTICALLY LINED "CROSS TALK" SILENCERS, PRICE "XT" OR EQUIVALENT. INSTALL ABOVE CEILING. FURNISH DUCT HANGERS AS NEEDED. PACK VOID BETWEEN DUCT AND WALL WITH MEDIA AND FURNISH SUPPORT ANGLES AND CLOSURE FLASHING. (TYP)
7. PROVIDE 1" INSULATED SUB-BASE ON THERMOSTAT. INSTALL BOTTOM OF THERMOSTAT APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH WALL SWITCHES. RUN LOW VOLTAGE WIRING WITHIN CONDUIT IN WALL CAVITY.
8. SUSPEND VAV BOXES TIGHT TO BOTTOM OF STEEL JOISTS WHILE MAINTAINING MANUFACTURER'S REQUIRED CLEARANCES. PROVIDE A MINIMUM 1.5 DUCT DIAMETERS OF STRAIGHT DUCT RUN PRIOR TO THE INLET OF THE UNIT. MODIFY COIL SIDE AS NEEDED. MAINTAIN PROPER CLEARANCES TO THE CONTROL BOX (NOTED WITH DASHED BOX). REFER TO "TERMINAL UNIT (VAV) PIPING DIAGRAM" ON SHEET M3.1 FOR ADDITIONAL INFORMATION.
9. HATCHED DUCT REPRESENTS 1/2" ACOUSTICAL LINER ADDED TO INTERIOR OF DUCT. DIMENSIONS SHOWN ARE CLEAR INSIDE DUCT OPENING. (TYP)
10. INSTALL FINNED TUBE RADIATOR ENCLOSURE LOW ON WALL, 4" ABOVE FINISHED FLOOR. CONCEAL ALL HYDRONIC PIPING DOWN WITHIN WALL CAVITY AND TRANSITION TO PIPE ENCLOSURE.
11. INSTALL FINNED TUBE RADIATOR ENCLOSURE LOW ON WALL, 4" ABOVE FINISHED FLOOR. CONCEAL ALL HYDRONIC PIPING DOWN FACE OF WALL WITHIN SHEET METAL ENCLOSURE AND TERMINATE FLUSH WITH SIDE OF RADIATOR.
12. RETURN AIR SILENCER, PRICE "RAS-LP" OR EQUIVALENT, LOW PRESSURE DROP MODEL, MOUNTED AT END OF DUCT.
13. REFER TO ENLARGED PLAN OF MECHANICAL LOFT THIS SHEET.
14. REFER TO CONTINUATION ON ROOF, SHEET M2.4.
15. REFER TO CONTINUATION ABOVE CEILING THIS SHEET. REUSE EXISTING DUCT OPENING AND LINTEL. COORDINATE PATCHING/FILLING OF CMU WALL OPENING WITH ARCHITECTURAL TRADES.
16. TERMINATE 4"Ø EXHAUST DUCT UP THROUGH ROOF AND SEAL WATERTIGHT.
17. INSTALL 1/2" PLYWOOD AND 3" R-7 BOARD INSULATION ON INSIDE FACE OF OUTSIDE AIR LOUVERS.
18. REFER TO "DUCT PENETRATION EXTERIOR WALL DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
19. REFER TO SECTION DETAILS AND PIPING DIAGRAM ON SHEET M3.3 FOR ADDITIONAL INFORMATION.
20. PRIME AND PAINT EXPOSED DUCTWORK. COORDINATE COLOR WITH G.C./ARCHITECT.
21. TERMINATE CONDENSATE DRAIN OUTSIDE WITH 45 DEGREE COPPER ELBOW DOWN. EXTEND A MINIMUM 1-1/2" PAST WALL. (TYP)
22. REFER TO DETAILS 2/M3.1 AND 12/M3.1 FOR ADDITIONAL INFORMATION.
23. TEMPORARILY SUSPEND CEILING MOUNTED GRILLES/REGISTERS/DIFFUSERS FOR NEW SPRINKLER INSTALLATION IN THIS AREA.
24. ELECTRICAL PANELS. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE MECHANICAL SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF OR ABOVE ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
5. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH ARCHITECTURAL TRADES.
6. ALL THERMOSTATS OR TEMPERATURE SENSORS MOUNTED ON EXTERIOR WALLS SHALL BE PROVIDED WITH INSULATED BASES.
7. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
8. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS AND VALVES LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT.
9. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT REFER TO PIPING DIAGRAMS AND DETAILS.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8500 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

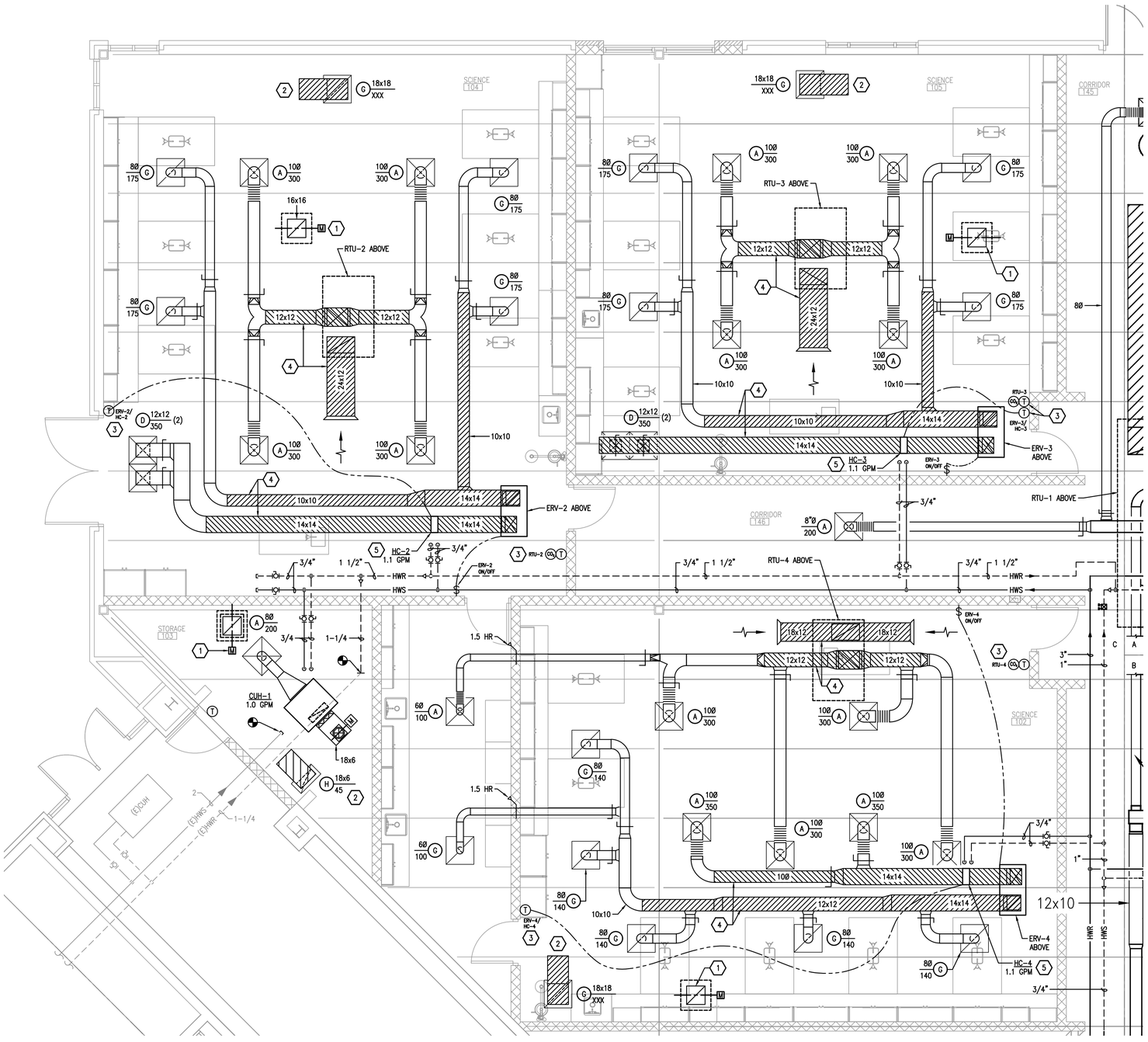
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

BY	
CRP	DESIGN
CRP	DRAWN
SLB	CHECKED
SLB	APPROVED

MECHANICAL
NEW WORK PLAN
AREA 'B'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M2.1



MECHANICAL NEW WORK PLAN - AREA 'C'

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

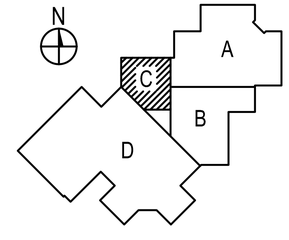
KEYNOTES

1. INSTALL RELIEF HOOD IN ROOF WITH DRIP PAN BELOW. REFER TO "NON-DUCTED GRAVITY RELIEF HOOD DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
2. INSTALL PLENUM RETURN BOOT IN CEILING WITH 1/2" ACOUSTICAL DUCT LINER. REFER TO "PLENUM RETURN GRILLE/BOOT DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION. (TYP)
3. PROVIDE 1" INSULATED SUB-BASE ON THERMOSTAT. INSTALL BOTTOM OF THERMOSTAT APPROXIMATELY 4'-0" ABOVE FINISHED FLOOR. COORDINATE LOCATION WITH WALL SWITCHES. RUN LOW VOLTAGE WIRING WITHIN CONDUIT IN WALL CAVITY.
4. HATCHED DUCT REPRESENTS 1/2" ACOUSTICAL LINER ADDED TO INTERIOR OF DUCT. DIMENSIONS SHOWN ARE CLEAR INSIDE DUCT OPENING. (TYP)
5. REFER TO DETAILS 2/M3.1 AND 12/M3.1 FOR ADDITIONAL INFORMATION.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE MECHANICAL SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF OR ABOVE ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
5. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH ARCHITECTURAL TRADES.
6. ALL THERMOSTATS OR TEMPERATURE SENSORS MOUNTED ON EXTERIOR WALLS SHALL BE PROVIDED WITH INSULATED BASES.
7. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
8. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS AND VALVES LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT.
9. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT REFER TO PIPING DIAGRAMS AND DETAILS.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4484
FAX: (906)228-7324

BIRGHTON OFFICE:
8411 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

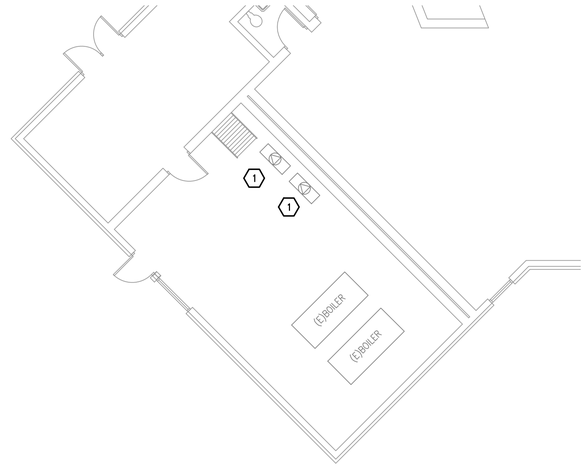
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

BY	
CRP	DESIGN
CRP	DRAWN
SLB	CHECKED
SLB	APPROVED

MECHANICAL
NEW WORK PLAN
AREA 'C'

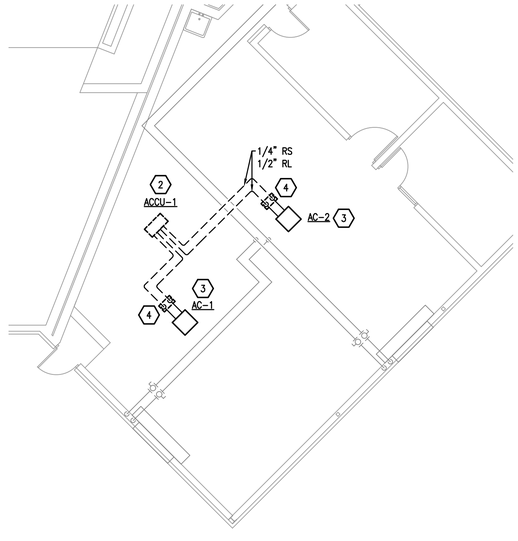
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M2.2



MECHANICAL NEW WORK PLAN - BOILER ROOM

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



MECHANICAL NEW WORK PLAN - BAND

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

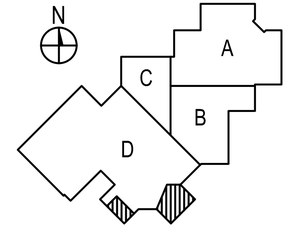
KEYNOTES

1. REPLACE BASE MOUNTED END SUCTION PUMP IMPELLER. EXISTING PUMP IS A PATTERSON "E3J9A" 4x3x9.5 WITH A 7.4375 IN IMPELLER WITH A PERFORMANCE OF 250 GPM AT 50 FT HEAD. THE NEW IMPELLER SHALL BE 8.0625 FOR A PERFORMANCE OF 210 GPM AT 62 FT HEAD.
2. INSTALL CONDENSING UNIT ON 4x4 PRESSURE TREATED WOOD POSTS. IN TURN, LAY POSTS ON SHEET OF RUBBERIZED 60 MIL ROOFING MEMBRANE MATERIAL ON TOP OF EXISTING ROOFING MATERIAL.
3. INSTALL AIR CONDITIONING UNIT RECESSED IN CEILING.
4. INSTALL REFRIGERANT THROUGH ROOF WITH REFRIGERANT PIPE CHASE AND HOUSING. SEAL WATER TIGHT.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE MECHANICAL SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF OR ABOVE ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
5. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH ARCHITECTURAL TRADES.
6. ALL THERMOSTATS OR TEMPERATURE SENSORS MOUNTED ON EXTERIOR WALLS SHALL BE PROVIDED WITH INSULATED BASES.
7. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
8. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS AND VALVES LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT.
9. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT REFER TO PIPING DIAGRAMS AND DETAILS.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

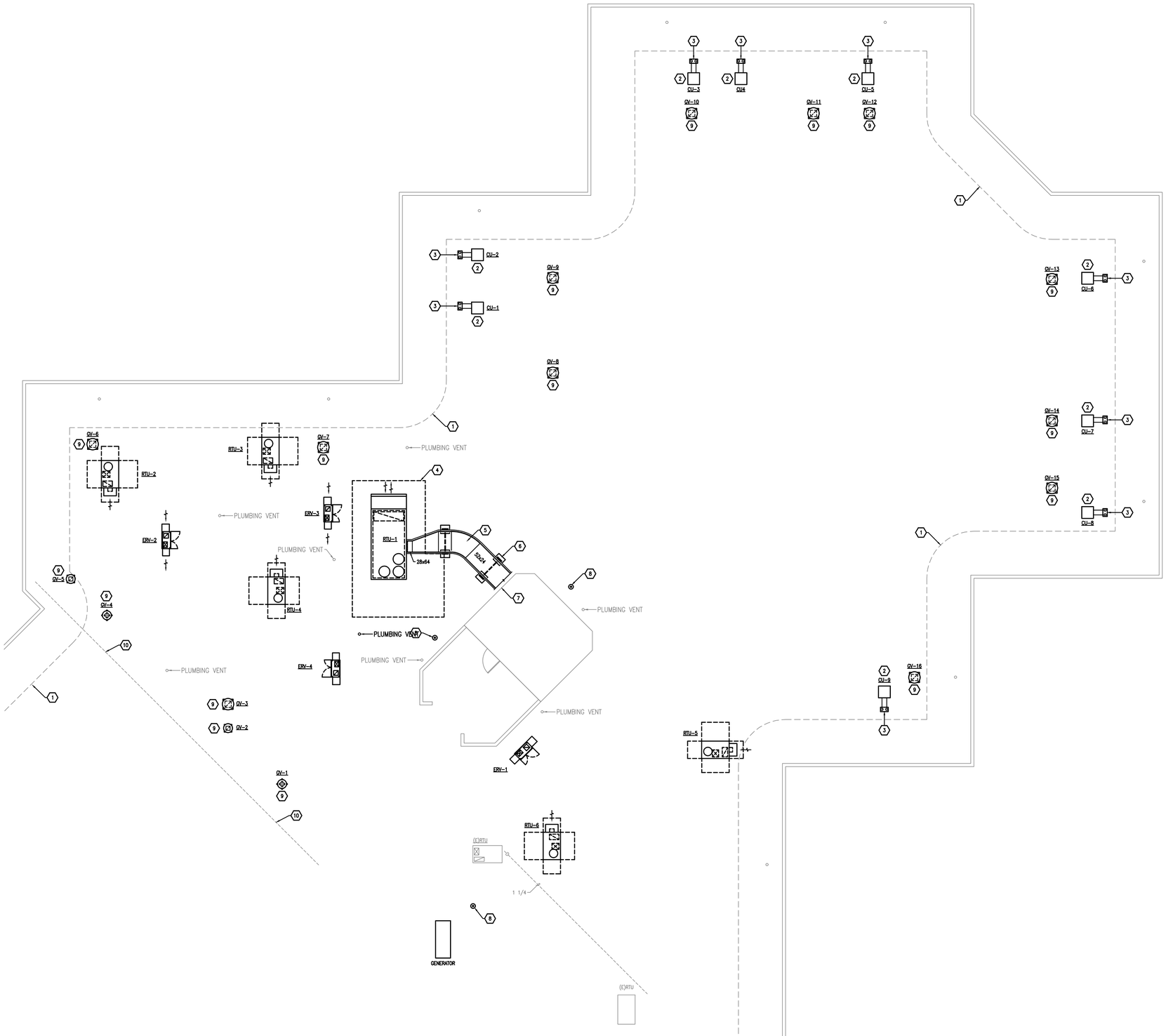
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

MECHANICAL
NEW WORK PLAN
AREA 'D'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M2.3



MECHANICAL NEW WORK PLAN - ROOF

SCALE: 3/32" = 1'-0"

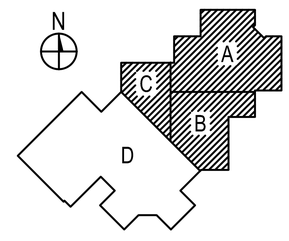
KEYNOTES

1. DO NOT INSTALL MECHANICAL EQUIPMENT WITHIN 10' FROM ROOF EDGE. (TYP)
2. INSTALL CONDENSING UNIT ON 4x4 PRESSURE TREATED WOOD POSTS. IN TURN, LAY POSTS ON SHEET OF RUBBERIZED 60 MIL ROOFING MEMBRANE MATERIAL ON TOP OF EXISTING ROOFING MATERIAL.
3. INSTALL REFRIGERANT PIPING DOWN THROUGH REFRIGERANT PIP CURB AND HOUSING. COORDINATE ROOF PENETRATION WITH EXISTING ROOF STEEL MEMBERS AND ROOFING MANUFACTURER'S WARRANTY. REFER TO 'REFRIGERANT PIPE CHASE AND HOUSING' SECTION OF "UNIT VENTILATOR INSTALLATION DETAILS" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
4. DASHED LINE AROUND EQUIPMENT REPRESENTS MANUFACTURER'S WORKING CLEARANCE. (TYP)
5. REFER TO "EXTERIOR DUCT INSULATION DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
6. REFER TO "EXTERIOR DUCT SUPPORT DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
7. REFER TO "DUCT PENETRATION EXTERIOR WALL DETAIL" ON SHEET M3.0 FOR ADDITIONAL INFORMATION.
8. TERMINATE 4"Ø EXHAUST DUCT UP THROUGH ROOF WITH ROOF CURB AND CAP, GREENHECK "RCC-7" OR EQUIVALENT. SEAL WATERTIGHT.
9. COORDINATE INSTALLATION OF GRAVITY VENTILATOR AND CURB WITH EXISTING STEEL MEMBERS AND ROOFING MANUFACTURER'S WARRANTY.
10. DO NOT LOCATE NEW OPENINGS IN ROOF WITHIN 4' OF 2-HOUR RATED WALL.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE MECHANICAL SYSTEMS COMPLETE PER SPECIFICATION, SMACNA STANDARDS, AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES. VERIFY ALL CLEARANCES PRIOR TO THE FABRICATION OF ANY WORK.
3. DUCTWORK/PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF OR ABOVE ELECTRICAL EQUIPMENT. DUCTWORK/PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL MECHANICAL SYSTEMS.
5. COORDINATE FLOOR, WALL, ROOF PENETRATIONS, LOUVER SIZES, PAD LOCATIONS, ETC. WITH ARCHITECTURAL TRADES.
6. ALL THERMOSTATS OR TEMPERATURE SENSORS MOUNTED ON EXTERIOR WALLS SHALL BE PROVIDED WITH INSULATED BASES.
7. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
8. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR DAMPERS AND VALVES LOCATED IN WALLS OR ABOVE HARD CEILINGS. COORDINATE LOCATIONS WITH ARCHITECT.
9. FOR EQUIPMENT VALVING, COMPONENT, AND PIPING ARRANGEMENT REFER TO PIPING DIAGRAMS AND DETAILS.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

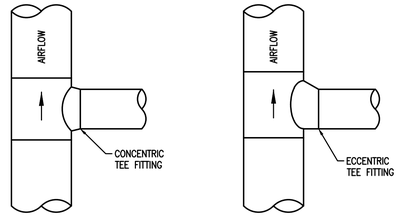
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

MECHANICAL
NEW WORK PLAN
ROOF

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M2.4



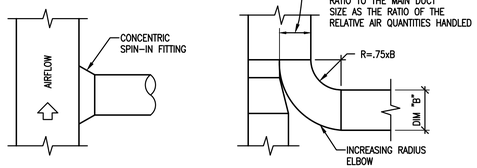
SUPPLY DUCT

RETURN OR EXHAUST DUCT

FLAT OVAL DUCT BRANCH TAKE-OFF SIMILAR

ROUND DUCT BRANCH TAKE-OFF DETAILS

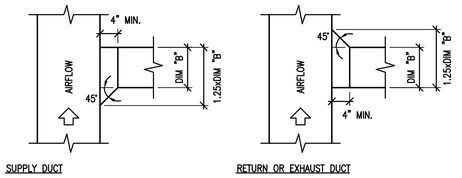
8 N.T.S. TYP.



RECTANGULAR TO ROUND DUCT

SUPPLY, RETURN OR EXHAUST DUCT

FOR USE WHEN A BRANCH TAKE-OFF IS TO HANDLE MORE THAN 25% OF THE AIR HANDLED BY THE MAIN DUCT

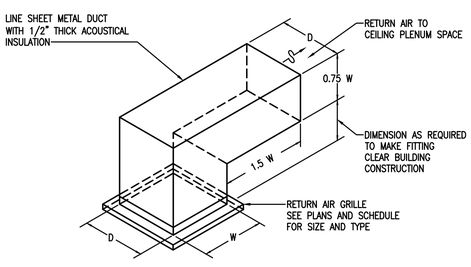


SUPPLY DUCT

RETURN OR EXHAUST DUCT

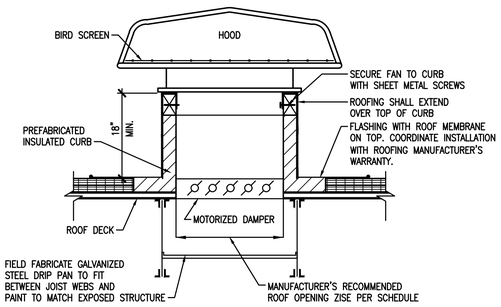
RECTANGULAR DUCT BRANCH TAKE-OFF DETAILS

7 N.T.S. TYP.



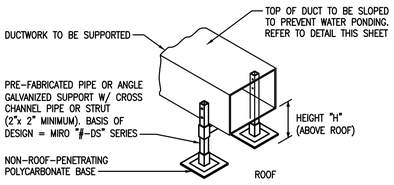
PLENUM RETURN GRILLE/BOOT DETAIL

6 N.T.S. TYP.



NON-DUCTED GRAVITY RELIEF HOOD DETAIL

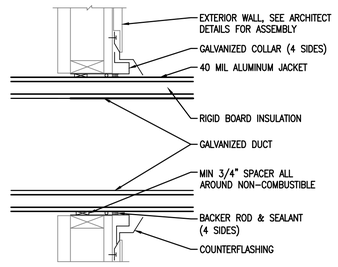
5 N.T.S. TYP.



NOTES:
1. REFER TO MANUFACTURER'S SIZING GUIDELINES FOR PROPER SUPPORT SIZE AND SPACING

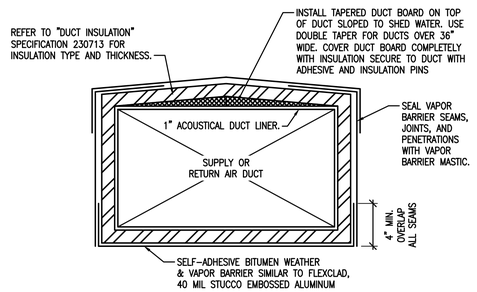
EXTERIOR DUCT SUPPORT DETAIL

4 N.T.S. TYP.



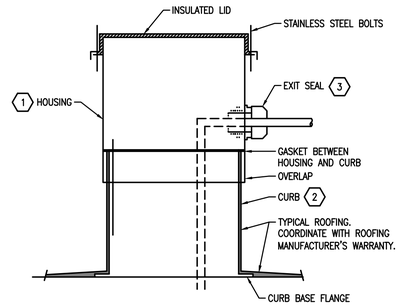
DUCT PENETRATION EXTERIOR WALL DETAIL

3 N.T.S.

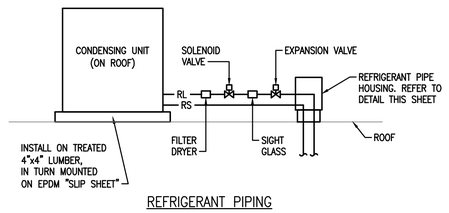


EXTERIOR DUCT INSULATION DETAIL

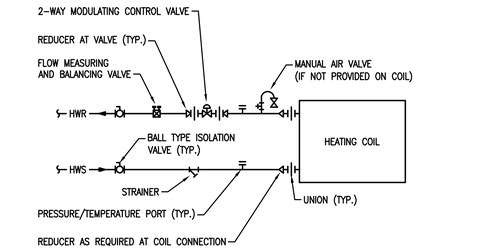
2 N.T.S.



REFRIGERANT PIPE CHASE AND HOUSING

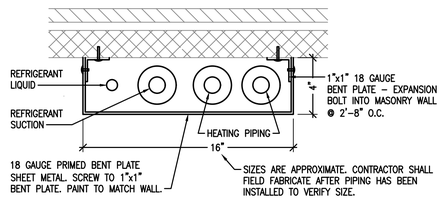


REFRIGERANT PIPING



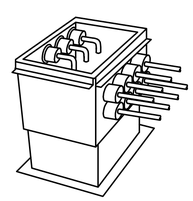
NOTES;
1. COORDINATE WHICH END OF UNIT EACH COIL CONNECTS TO. ROUTE HYDRONIC/REFRIGERANT PIPING WITHIN INTEGRAL PIPE CHASE AS REQUIRED.
2. HYDRONIC/REFRIGERANT COIL PIPING CONNECTIONS, INCLUDING ALL FITTINGS, VALVE, ETC. SHALL BE INSTALLED WITHIN DEDICATED UNIT VENTILATOR END POCKETS. REFER TO MANUFACTURER;S INSTALLATION INSTRUCTIONS FOR ADDITIONAL INFORMATION. COOLING AND HEATING COIL HEADER CONNECTIONS MAY BE ON ALTERNATE SIDES OF UNIT VENTILATOR.

HEATING PIPING



NOTES;
1. FIELD VERIFY LOCATIONS.
2. TERMINATE PIPING ENCLOSURE AT SIDE OF UNIT VENTILATOR.
3. DO NOT INSTALL PIPING ENCLOSURE IN FRONT OF TACK BOARDS, FINNED TUBE, UNIT VENTILATORS, WINDOWS, CONDUIT, OUTLETS, ETC.
4. SIZE TO FIT QUANTITY OF PIPES SHOWN ON PLAN.

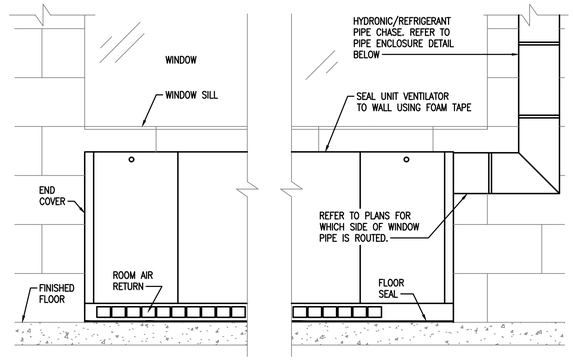
PIPE ENCLOSURE



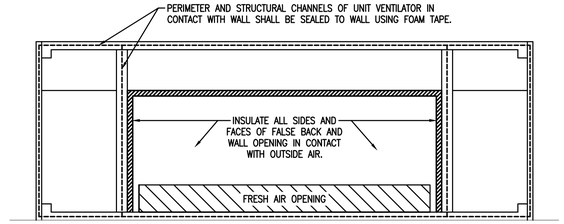
1. ALTA PRODUCTS "AL-" SERIES HOUSING
1.1. 12 GAUGE ALUMINUM HOUSING AND LID
1.2. UV PROTECTED POWDER COAT.
1.3. FULL THERMAL BREAK INTERIOR WITH GASKETS AND INSULATION.
1.4. STAINLESS STEEL FASTENERS.

2. ALTA PRODUCTS "ALTC-" SERIES CURB
2.1. 12 GAUGE ALUMINUM, NO FINISH.
2.2. MINIMUM 18" TALL.

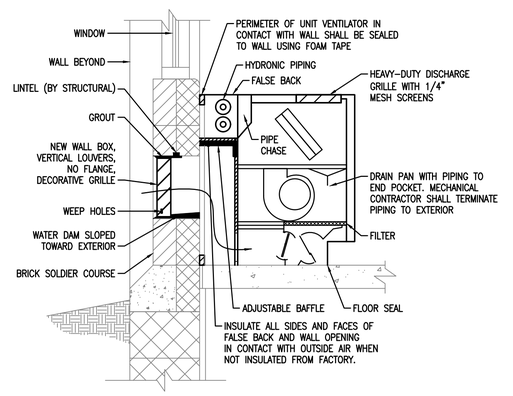
3. SIGRIST EXIT SEAL
3.1. INJECTION MOLDED ABS, SCHEDULE 80
3.2. WHITE
3.3. SIZES 1/4" THROUGH 1 5/8"



FRONT OF UNIT VENTILATOR



REAR OF UNIT VENTILATOR



SIDE OF UNIT VENTILATOR

UNIT VENTILATOR INSTALLATION DETAILS

1 N.T.S. TYP.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BIRMINGHAM OFFICE:
251 MARIA AVENUE, SUITE 600
BIRMINGHAM, MI 48010
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

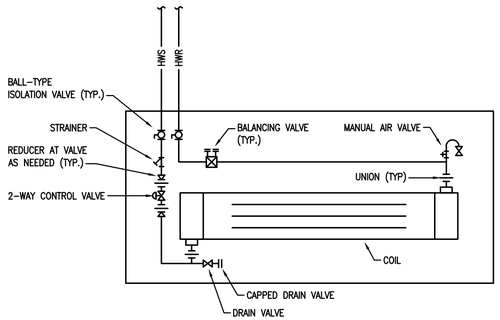
NO.	REVISIONS	DATE
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

BY	
CRP	DESIGN
CRP	DRAWN
SLB	CHECKED
SLB	APPROVED

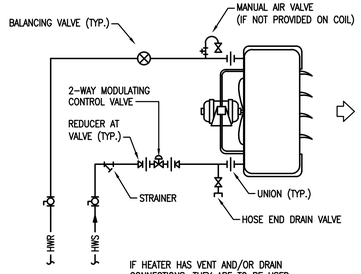
MECHANICAL DETAILS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

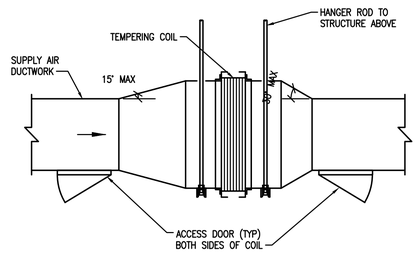
M3.0



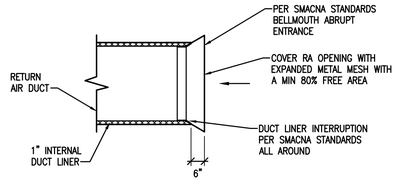
CABINET UNIT HEATER PIPING DIAGRAM
14 N.T.S.



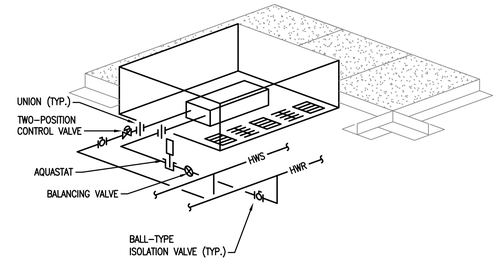
UNIT HEATER PIPING DIAGRAM
13 N.T.S.



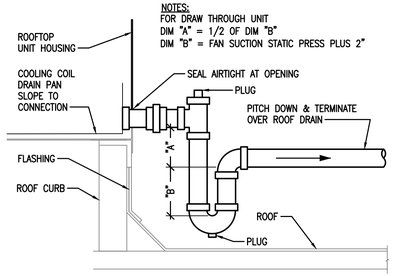
DUCT MOUNTED TEMPERING COIL INSTALLATION DETAIL
12 N.T.S. TYP.



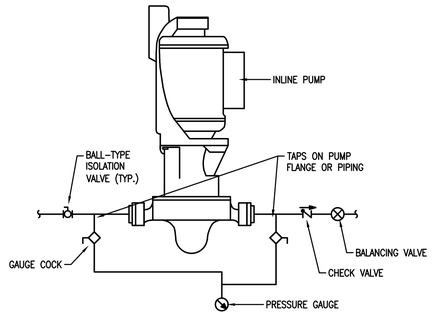
PLENUM RETURN BELLMOUTH W/O DAMPER DETAIL
11 N.T.S. TYP.



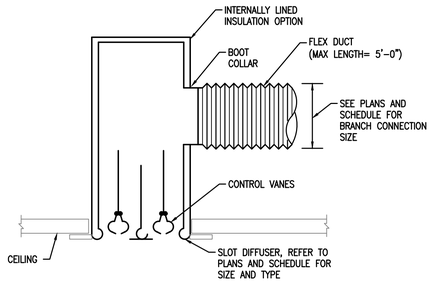
CEILING CABINET UNIT HEATER PIPING DIAGRAM
10 N.T.S.



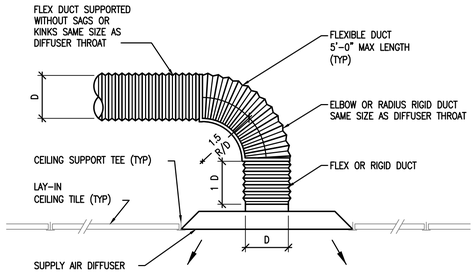
ROOFTOP UNIT COOLING COIL DRAIN PAN TRAP DETAIL
9 N.T.S. TYP.



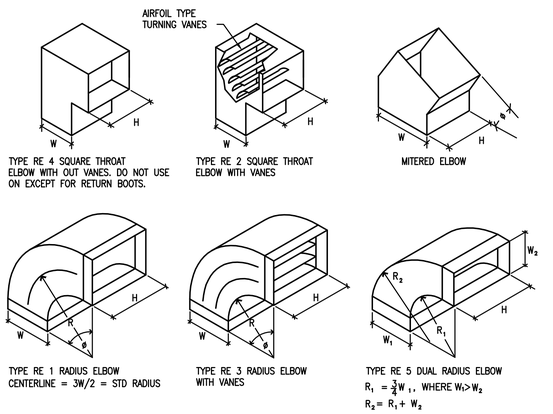
INLINE PUMP PIPING DIAGRAM
8 N.T.S.



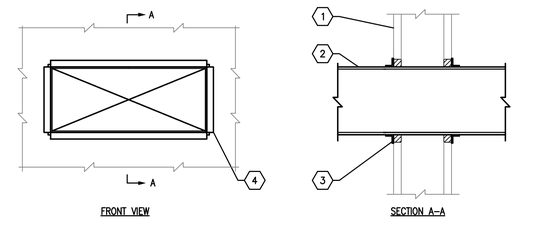
PLENUM SLOT DIFFUSER DETAIL
7 N.T.S. TYP.



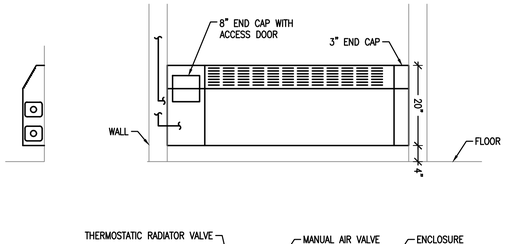
SUPPLY AIR DIFFUSER DETAIL
6 N.T.S. TYP.



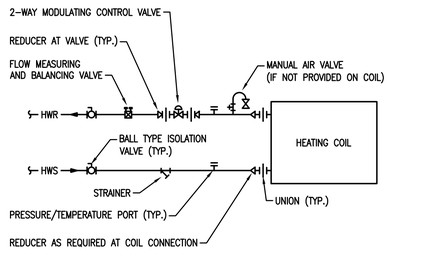
RECTANGULAR SHEET-METAL ELBOWS
5 N.T.S. TYP.



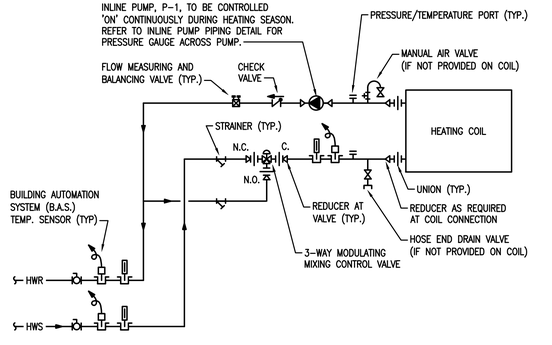
DUCT PENETRATION (W/O DAMPER) THRU 1-HR GYPSUM/CONCRETE WALL DETAIL
4 N.T.S. TYP.



FINNED TUBE RADIATOR PIPING DIAGRAM
3 N.T.S. TYP.



DUCT MOUNTED TEMPERING COIL & TERMINAL UNIT (VAV) PIPING DIAGRAM
2 N.T.S. TYP.



DUCT MOUNTED HEATING COIL PIPING DIAGRAM
1 N.T.S. (DOWNSTREAM OF RTU-1)

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BIRGHTON OFFICE:
8100 JACKSON RD. SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

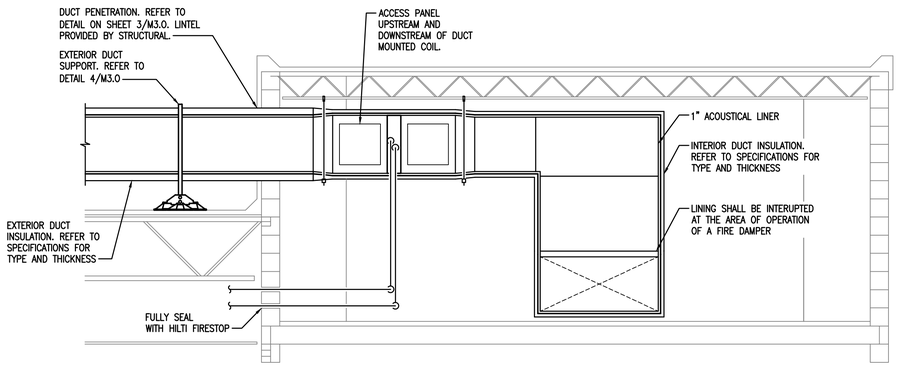
NO.	REVISIONS	DATE
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

BY	
CRP	DESIGN
CRP	DRAWN
SLB	CHECKED
SLB	APPROVED

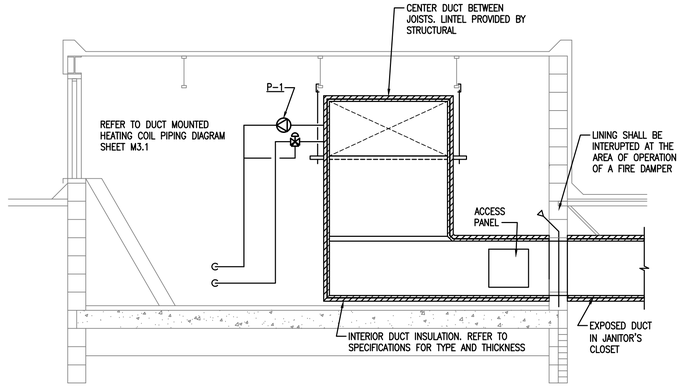
MECHANICAL DETAILS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

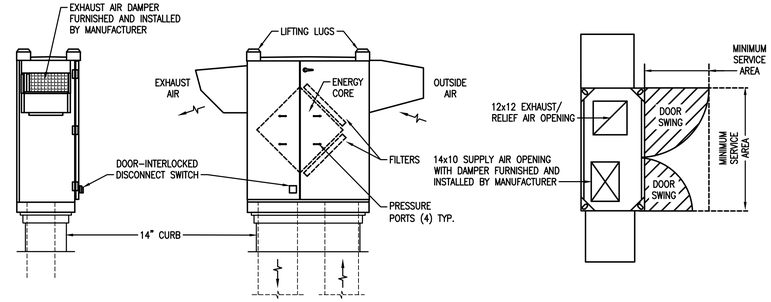
M3.1



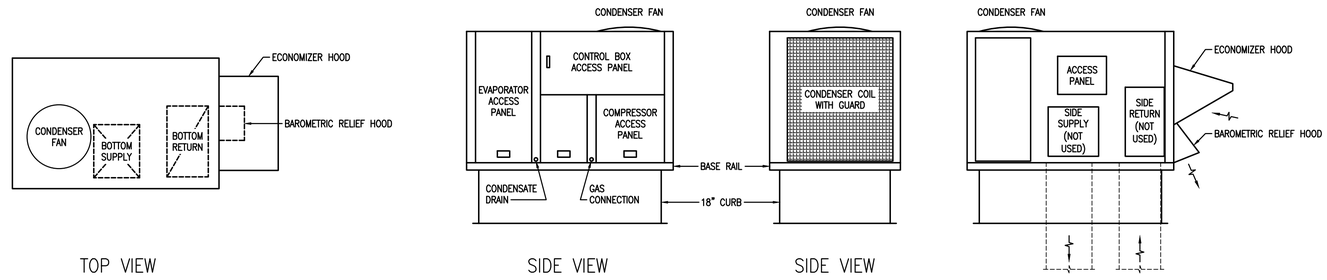
5 MECHANICAL LOFT SECTION DETAIL (NORTHEAST WALL)
N.T.S.



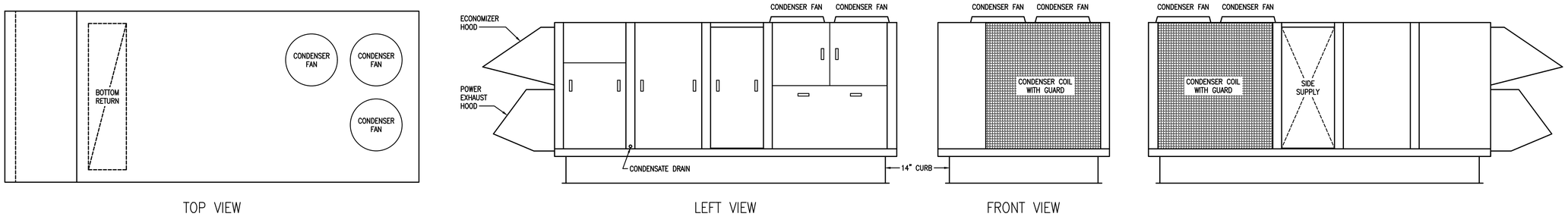
3 MECHANICAL LOFT SECTION DETAIL (NORTHWEST WALL)
N.T.S.



4 ENERGY RECOVERY UNIT DETAIL
N.T.S. TYP.



2 RTU-2, RTU-3, RTU-4, RTU-5, & RTU-6 UNIT CONSTRUCTION DETAIL
N.T.S. TYP.



1 RTU-1 UNIT CONSTRUCTION DETAIL
N.T.S. TYP.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

MECHANICAL DETAILS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M3.2

UNIT VENTILATOR SCHEDULE

SYM	SERVICE	TOTAL AIRFLOW (CFM)	MINIMUM OUTSIDE AIRFLOW (CFM)	HEATING COIL (HOT WATER) MINIMUM TOTAL CAPACITY (MBH)	AIR EAT (DB°F)	AIR LAT (DB°F)	WATER FLOW (GPM)	WATER EWT (°F)	WATER LWT (°F)	WATER WPD (FT HD)	CONTROL VALVE CONFIG.	COOLING COIL (DX) TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AIR EAT (DB°F)	AIR EAT (WB°F)	AIR LAT (DB°F)	AIR LAT (WB°F)	REFRIGERANT TYPE	LIQUID (IN)	SUCTION (IN)	WEIGHT (LBS)	DIMENSIONS LENGTH (IN)	DEPTH (IN)	HEIGHT (IN)	ELECTRICAL MCA	MOP	VOLTS/PHASE	DISCONNECT FURNISH BY	INSTALL BY	TYPE	MANUFACTURER AND MODEL
UV-1	CLASSROOM 107	1000	388	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100
UV-2	CLASSROOM 108	1000	388	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100
UV-3	CLASSROOM 109	1000	375	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100
UV-4	CLASSROOM 111	1000	374	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100
UV-5	CLASSROOM 113	1000	361	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100
UV-6	CLASSROOM 115	1000	348	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100
UV-7	CLASSROOM 116	1000	349	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100
UV-8	MUSIC 117	1000	348	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100
UV-9	CLASSROOM 119	1000	414	54.5	45.0	96.3	3.6	180	150	5.4	2-WAY	34.4	23.5	80.0	67.0	58.0	55.7	R454B	5/16	3/4	–	81	21-1/4	30	4.19	15	115/1	MANUF.	MANUF.	NON-FUSED SWITCH	TRANE VUVE100

NOTES:
1. PROVIDE WITH ECM VARIABLE AIRFLOW FANS.
2. PROVIDE WITH LEFT AND RIGHT END PANELS.
3. PROVIDE WITH 2" DISPOSABLE MERV 13 FILTERS.
4. PROVIDE WITH FACTORY MOUNTED DISCONNECT. SINGLE POINT POWER CONNECTION.
5. UNIT SHALL HAVE ECONOMIZER CONTROL.
6. UNIT SHALL HAVE DEMAND CONTROL VENTILATION USING SPACE MOUNTED CO2 SENSOR.
7. PROVIDE WITH FULL ADAPTOR BACK WITH CLOSED PIPE TUNNEL.
8. MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADDITIONAL STEEL AS REQUIRED.
9. TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH FACTORY WITH BACNET COMPATIBLE UNIT CONTROLLER FOR INSTALLATION BY FACTORY. PROGRAMMING AND FIELD COMMISSIONING BY TEMPERATURE CONTROLS CONTRACTOR.
10. A LEAK DETECTION SYSTEM SHALL BE FACTORY FURNISHED AND INSTALLED.
11. MECHANICAL CONTRACTOR SHALL INSULATE ALL SIDES AND FACES OF FALSE BACK AND WALL OPENING IN CONTACT WITH OUTSIDE AIR.
12. FURNISH WITH OUTSIDE AIR LOUVER BY MANUFACTURER. NO FLANGE, VERTICAL LOUVERS, DECORATIVE GRILLE.

PACKAGED COMPRESSOR AND CONDENSER UNIT SCHEDULE

SYM	ASSOC. INDOOR UNIT	NOMINAL TONNAGE	COMPRESSOR QTY.	COMPRESSOR TYPE	COMPRESSOR SPEED	REFRIGERANT TYPE	LIQUID (IN)	SUCTION (IN)	WEIGHT (LBS)	ELECTRICAL MCA	MOP	VOLTS/PHASE	DISCONNECT FURNISH BY	INSTALL BY	TYPE	UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL
CU-1	UV-1	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036
CU-2	UV-2	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036
CU-3	UV-3	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036
CU-4	UV-4	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036
CU-5	UV-5	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036
CU-6	UV-6	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036
CU-7	UV-7	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036
CU-8	UV-8	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036
CU-9	UV-9	3.0	1	SCROLL	MULTI	R-454B	5/16	3/4	4LB-4 OZ	29	40	208-230/1	MANUF.	MANUF.	NON-FUSED SWITCH	194	TRANE 5TTR7036

NOTE:
1. DESIGNED TO OPERATE AT OUTDOOR AMBIENT TEMPERATURES FROM 55°F TO 120°F.

PACKAGED ROOFTOP AIR-CONDITIONING UNIT SCHEDULE

SYM	SERVICE	SYSTEM TYPE	TOTAL AIRFLOW (CFM)	MINIMUM OUTSIDE AIRFLOW (CFM)	SUPPLY LOCATION	RETURN LOCATION	SUPPLY FAN E.S.P. (IN.WC.)	FAN TYPE	DRIVE TYPE	RELIEF TYPE	HEATING COIL (NATURAL GAS) INPUT CAPACITY (MBH)	OUTPUT CAPACITY (MBH)	AIR EAT (DB°F)	AIR LAT (DB°F)	GAS PRESSURE MIN.-MAX. (IN WC)	STAGES OR MODULATION TURNDOWN	BURNER TYPE	COOLING COIL (DX) TOTAL CAPACITY (MBH)	SENSIBLE CAPACITY (MBH)	AIR EAT (DB°F)	AIR EAT (WB°F)	AIR LAT (DB°F)	AIR LAT (WB°F)	REFRIGERANT TYPE	CHARGE (LBS)	FILTER	ELECTRICAL MCA	MOP	VOLTS/PHASE	DISCONNECT FURNISH BY	INSTALL BY	TYPE	UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL
RTU-1	INTERIOR CLASSROOMS	VAV	8800	2965	SIDE	BOTTOM	3.0	FC	DIRECT	100% POWER EXHAUST	*	*	*	*	*	*	*	322.5	205.9	78.0	67.0	56.6	55.2	R454B	31.0	2" MERV 8	186.0	225	208/3	MANUF.	MANUF.	NON-FUSED SWITCH	4645	TRANE TCF330
RTU-2	SCIENCE 104	SINGLE ZONE, VAV	1200	426	BOTTOM	BOTTOM	0.5	FC	DIRECT	LOW LEAK ECONOMIZER DB W/BR	80.0	64.8	39.9	89.8	4.5-14	2-STAGE	INDIRECT	37.9	28.0	81.6	68.0	60.6	58.3	R454B	3.1	2" MERV 8	23.0	30	208-230/3	MANUF.	MANUF.	NON-FUSED SWITCH	798	TRANE YSK036
RTU-3	SCIENCE 105	SINGLE ZONE, VAV	1200	396	BOTTOM	BOTTOM	0.5	FC	DIRECT	LOW LEAK ECONOMIZER DB W/BR	80.0	64.8	39.9	89.8	4.5-14	2-STAGE	INDIRECT	37.9	28.0	81.6	68.0	60.6	58.3	R454B	3.1	2" MERV 8	23.0	30	208-230/3	MANUF.	MANUF.	NON-FUSED SWITCH	798	TRANE YSK036
RTU-4	SCIENCE 102	SINGLE ZONE, VAV	1200	404	BOTTOM	BOTTOM	0.5	FC	DIRECT	LOW LEAK ECONOMIZER DB W/BR	80.0	64.8	39.9	89.8	4.5-14	2-STAGE	INDIRECT	37.9	28.0	81.6	68.0	60.6	58.3	R454B	3.1	2" MERV 8	23.0	30	208-230/3	MANUF.	MANUF.	NON-FUSED SWITCH	798	TRANE YSK036
RTU-5	MEDIA CENTER 121	SINGLE ZONE, VAV	1600	696	BOTTOM	BOTTOM	0.7	FC	DIRECT	LOW LEAK ECONOMIZER DB W/BR	100.0	81.0	39.9	86.6	4.5-14	2-STAGE	INDIRECT	48.5	35.9	80.0	67.0	59.8	57.4	R454B	3.3	2" MERV 8	27.0	40	208-230/3	MANUF.	MANUF.	NON-FUSED SWITCH	818	TRANE YSK048
RTU-6	OFFICE AREA	SINGLE ZONE, VAV	1200	415	BOTTOM	BOTTOM	0.5	FC	DIRECT	LOW LEAK ECONOMIZER DB W/BR	80.0	64.8	48.5	98.3	4.5-14	2-STAGE	INDIRECT	37.1	27.7	80.5	67.1	59.7	57.4	R454B	3.1	2" MERV 8	23.0	30	208-230/3	MANUF.	MANUF.	NON-FUSED SWITCH	798	TRANE YSK036

NOTE:
1. PROVIDE WITH BAROMETRIC RELIEF.
2. PROVIDE WITH DEMAND CONTROL VENTILATION.
3. TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH UNIT WITH BACNET COMPATIBLE UNIT CONTROLLER TO MANUFACTURER FOR FACTORY MOUNTING.
4. PROVIDE WITH A2L REFRIGERANT LEAK DETECTION SYSTEM BY MANUFACTURER.
5. FACTORY FURNISHED, FIELD-WIRED (BY ELECTRICAL) GFI RECEPTACLE.

AIR TERMINAL UNIT SCHEDULE

SYM	SERVED BY	SERVICE	TYPE	CFM COOLING MIN	CFM HEATING MIN	CFM COOLING MAX	MAX INLET S.P. (IN.WC.)	INLET DIA. (IN)	OUTLET SIZE (IN)	HEATING COIL (WATER) CAPACITY (MBH)	ROWS	AIR EAT (°F)	AIR LAT (°F)	AIR APD (IN.WC.)	WATER GPM	WATER EWT (°F)	WATER LWT (°F)	WATER WPD (FT.HD.)	CONTROL VALVE	SOUND MAXIMUM NC	DISCHARGE NC	RADIATED NC	MANUFACTURER AND MODEL
VAV-1	RTU-1	LOBBY/COMMONS 144, CORRIDOR 145	SINGLE DUCT, REHEAT	120	480	600	0.75	8	11 x 10.25	25.1	2	55.0	103.3	0.38	1.7	180	150	0.23	2-WAY	35	30	–	TRANE VCWF-08
VAV-2	RTU-1	JC 123, CONFERENCE 124, STORAGE 125	SINGLE DUCT, REHEAT	80	160	400	0.75	6	10 x 8.25	12.5	2	55.0	127.2	0.43	0.8	180	150	0.42	2-WAY	30	30	17	TRANE VCWF-06
VAV-3	RTU-1	CORRIDOR 145, CORRIDOR 146	SINGLE DUCT, REHEAT	120	550	600	0.75	8	11 x 10.25	27.1	2	55.0	100.5	0.38	1.8	180	150	0.26	2-WAY	35	30	–	TRANE VCWF-08
VAV-4	RTU-1	ART ROOM 106	SINGLE DUCT, REHEAT	200	400	1000	0.75	10	14 x 12.125	29.8	2	55.0	123.7	0.40	2.0	180	150	0.64	2-WAY	30	25	17	TRANE VCWF-10
VAV-5	RTU-1	SPECIAL EDUCATION 122	SINGLE DUCT, REHEAT	120	300	600	0.75	8	11 x 10.25	18.8	2	55.0	112.7	0.38	1.3	180	150	0.13	2-WAY	30	30	–	TRANE VCWF-08
VAV-6	RTU-1	CLASSROOM 120	SINGLE DUCT, REHEAT	160	400	800	0.75	8	11 x 10.25	22.6	2	55.0	107.0	0.6	1.5	180	150	0.19	2-WAY	30	30	17	TRANE VCWF-08
VAV-7	RTU-1	CLASSROOM 118	SINGLE DUCT, REHEAT	160	400	800	0.75	8	11 x 10.25	22.6	2	55.0	107.0	0.6	1.5	180	150	0.19	2-WAY	30	30	17	TRANE VCWF-08
VAV-8	RTU-1	CORRIDOR 146, CORRIDOR 150	SINGLE DUCT, REHEAT	120	400	600	0.75	8	11 x 10.25	22.6	2	55.0	107.0	0.38	1.5	180	150	0.19	2-WAY	35	30	–	TRANE VCWF-08
VAV-9	RTU-1	ENTRY 149, CORRIDOR 150	SINGLE DUCT, REHEAT	120	535	600	0.75	8	11 x 10.25	26.7	2	55.0	101.0	0.38	1.8	180	150	0.25	2-WAY	35	30	–	TRANE VCWF-08
VAV-10	RTU-1	CLASSROOM 114	SINGLE DUCT, REHEAT	160	400	800	0.75	8	11 x 10.25	22.6	2	55.0	107.0	0.6	1.5	180	150	0.19	2-WAY	30	30	17	TRANE VCWF-08
VAV-11	RTU-1	CLASSROOM 112	SINGLE DUCT, REHEAT	160	400	800	0.75	8	11 x 10.25	22.6	2	55.0	107.0	0.6	1.5	180	150	0.19	2-WAY	30	30	17	TRANE VCWF-08
VAV-12	RTU-1	SPECIAL EDUCATION 110	SINGLE DUCT, REHEAT	120	300	600	0.75	8	11 x 10.25	18.8	2	55.0	112.7	0.38	1.3	180	150	0.19	2-WAY	30	30	–	TRANE VCWF-08
VAV-13	RTU-1	CORRIDOR 147	SINGLE DUCT, REHEAT	120	435	600	0.75	8	11 x 10.25	23.7	2	55.0	105.3	0.38	1.6	180	150	0.20	2-WAY	35	30	–	TRANE VCWF-08

NOTES:
1. PROVIDE WITH DOOR INTERLOCK SWITCH.
2. TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH WITH BACNET COMPATIBLE UNIT CONTROLLER TO MANUFACTURER FOR FACTORY MOUNTING.

ARCHITECTURE ENGINEERING CONSULTING
IDI INTEGRATED DESIGNS INC.
MARQUETTE OFFICE: 1021 W. BARAGA AVENUE MARQUETTE, MI 49855 PHONE: (906)228-4480 FAX: (906)228-7524
BRIGHTON OFFICE: 8571 W. GRAND RIVER AVE., SUITE 600 BRIGHTON, MI 48816 PHONE: (810)229-2701 FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

MECHANICAL SCHEDULES

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M4.0

PACKAGED, OUTDOOR, FIXED PLATE ENERGY RECOVERY UNIT SCHEDULE

SYM	TYPE	SERVICE	SUPPLY POSITION	EXHAUST POSITION	SUPPLY AIRFLOW (CFM)	SUPPLY AIRFLOW E.S.P. (IN.WC.)	EXHAUST AIRFLOW (CFM)	EXHAUST AIRFLOW E.S.P. (IN.WC.)	ENERGY CORE – SUMMER OUTSIDE AIR EAT (DB°F)	ENERGY CORE – SUMMER OUTSIDE AIR EAT (WB°F)	ENERGY CORE – SUMMER OUTSIDE AIR LAT (DB°F)	ENERGY CORE – SUMMER OUTSIDE AIR LAT (WB°F)	ENERGY CORE – WINTER OUTSIDE AIR EAT (DB°F)	ENERGY CORE – WINTER OUTSIDE AIR LAT (DB°F)	FILTER	ELECTRICAL MCA	ELECTRICAL MOP	ELECTRICAL VOLTS/PHASE	DISCONNECT FURNISH BY	DISCONNECT INSTALL BY	DISCONNECT TYPE	WEIGHT (LBS)	MANUFACTURER AND MODEL
ERV–1	ROOF MOUNTED, CORE	MEN 126, WOMEN 127 RESTROOMS	DOWN	DOWN	700	0.5	700	0.5	90.7	73.4	79.6	68.1	0.0	49.6	(2x)2" MERV 8	3.9	15	208–230/1	MANUF.	MANUF.	NON–FUSED SWITCH	303	GREENHECK HE10–JRTV–S15EE–DGN4–L
ERV–2	ROOF MOUNTED, CORE	SCIENCE 104 GENERAL EXHAUST	DOWN	DOWN	700	0.5	700	0.5	90.7	73.4	79.6	68.1	0.0	49.6	(2x)2" MERV 8	3.9	15	208–230/1	MANUF.	MANUF.	NON–FUSED SWITCH	303	GREENHECK HE10–JRTV–S15EE–DGN4–L
ERV–3	ROOF MOUNTED, CORE	SCIENCE 105 GENERAL EXHAUST	DOWN	DOWN	700	0.5	700	0.5	90.7	73.4	79.6	68.1	0.0	49.6	(2x)2" MERV 8	3.9	15	208–230/1	MANUF.	MANUF.	NON–FUSED SWITCH	303	GREENHECK HE10–JRTV–S15EE–DGN4–L
ERV–4	ROOF MOUNTED, CORE	SCIENCE 102 GENERAL EXHAUST	DOWN	DOWN	700	0.5	700	0.5	90.7	73.4	79.6	68.1	0.0	49.6	(2x)2" MERV 8	3.9	15	208–230/1	MANUF.	MANUF.	NON–FUSED SWITCH	303	GREENHECK HE10–JRTV–S15EE–DGN4–L

NOTE:
1. PROVIDE WITH ECM DIRECT DRIVE MOTORS, PREMIUM CONTROLS WITH BACNET COMPATIBILITY, MOTORIZED DAMPERS BOTH AIRSTREAMS, FILTER MONITORS, AND MINIMUM 14" CURB.

UNIT HEATER (HOT WATER) SCHEDULE

SYM	SERVICE	CAPACITY (MBH)	CFM	MOUNTING	COIL TYPE	WATER FLOW (GPM)	WATER EWT (°F)	WATER LWT (°F)	WATER WPD (FT HD)	CONTROL VALVE CONFIG.	ELECTRICAL MOP	ELECTRICAL MCA	ELECTRICAL AMPS	ELECTRICAL VOLTS/PHASE	DISCONNECT FURNISH BY	DISCONNECT INSTALL BY	DISCONNECT TYPE	MANUFACTURER AND MODEL
UH–1	MECHANICAL LOFT	8.03	245	VERTICAL (HORIZONTAL THROW)	SERPENTINE	0.8	180	150	0.8	2–WAY	1.8	1	0	115/1	MANUF.	MANUF.	NON–FUSED SWITCH	TRANE UHSBA08

NOTE
1. PROVIDE WITH WALL MOUNTED 24VAC ZONE SENSOR.

EXHAUST FAN SCHEDULE

SYM	SERVICE	TYPE	AIRFLOW (CFM)	E.S.P. (IN.WC.)	FAN RPM	DRIVE	ELECTRICAL MCA	ELECTRICAL MOP	ELECTRICAL VOLTS/PHASE	DISCONNECT FURNISH BY	DISCONNECT INSTALL BY	DISCONNECT TYPE	MANUFACTURER AND MODEL
EF–1	TOILET 142A	CEILING	70	0.25	900	DIRECT	0.2	15	115/1	MANUF.	MANUF.	INTERNAL, PLUG–IN	GREENHECK SP–A90
EF–2	JC 123	CEILING	70	0.25	900	DIRECT	0.2	15	115/1	MANUF.	MANUF.	INTERNAL, PLUG–IN	GREENHECK SP–A90
EF–3	STAFF 125A	CEILING	70	0.25	900	DIRECT	0.2	15	115/1	MANUF.	MANUF.	INTERNAL, PLUG–IN	GREENHECK SP–A90

NOTE:
1. EF–2 SHALL OPERATE VIA DEDICATED ON/OFF ROCKER SWITCH.
2. EF–1 AND EF–3 SHALL BE INTERLOCKED WITH LIGHT SWITCH.

CABINET UNIT HEATER (HOT WATER) SCHEDULE

SYM	SERVICE	CAPACITY (MBH)	CFM	MOUNTING	AIR LOCATION SUPPLY	AIR LOCATION RETURN	AIR LOCATION FRESH AIR	WATER FLOW (GPM)	WATER EWT (°F)	WATER LWT (°F)	WATER MAX WPD (FT HD)	CONTROL VALVE CONFIG.	DIMENSIONS WIDTH (IN)	DIMENSIONS DEPTH (IN)	DIMENSIONS HEIGHT (IN)	ELECTRICAL MOP	ELECTRICAL VOLTS/PHASE	DISCONNECT FURNISH BY	DISCONNECT INSTALL BY	DISCONNECT TYPE	MANUFACTURER AND MODEL
CUH–1	STORAGE 103	15.9	240	CEILING, RECESSED, FLUSH	FRONT DUCTED	BOTTOM FACE	REAR DUCTED	1.0	180	150	4.8	2–WAY	2'–11 13/16"	2'–5 7/8"	10 3/8"	15	115/1	MANUF.	MANUF.	NON–FUSED SWITCH	TRANE FFE020
CUH–2	STORAGE 101	15.9	240	CEILING, RECESSED, FLUSH	FRONT DUCTED	BOTTOM FACE	REAR DUCTED	1.0	180	150	4.8	2–WAY	2'–11 13/16"	2'–5 7/8"	10 3/8"	15	115/1	MANUF.	MANUF.	NON–FUSED SWITCH	TRANE FFE020
CUH–3	ENTRY 149	15.9	240	WALL, SURFACE, INVERTED	BOTTOM FACE	TOP FACE	N/A	1.0	180	150	4.8	2–WAY	2'–9 5/16"	10–5/16"	2'–2 13/16"	15	115/1	MANUF.	MANUF.	NON–FUSED SWITCH	TRANE FFM020

NOTE
1. PROVIDE WITH WALL MOUNTED 24VAC ZONE SENSOR.
2. PROVIDE WITH 3–SPEED FANS.
3. PROVIDE WITH TIMED OVERRIDE.

HYDRONIC PUMP SCHEDULE

	SYM	SERVICE	TYPE	FLOW (GPM)	HEAD (FT)	RPM	IMPELLER (IN)	DISCHARGE SIZE (IN)	SUCTION SIZE (IN)	ELECTRICAL DUTY POINT BHP	ELECTRICAL HP	ELECTRICAL VOLTS	ELECTRICAL PHASE	DISCONNECT FURN. BY	DISCONNECT INST. BY	DISCONNECT TYPE	MANUFACTURER AND MODEL
REPLACE IMPELLER ONLY	*	HEATING	BASE MOUNTED END SUCTION	210	62	1800	8.0625	–	–	–	–	–	–	–	–	–	(E)PATTERSON)
REPLACE IMPELLER ONLY	*	HEATING	BASE MOUNTED END SUCTION	210	62	1800	8.0625	–	–	–	–	–	–	–	–	–	(E)PATTERSON)
	P–3	HC–5	IN–LINE	20	15	1715	4	1.25	1.25	0.125	0.25	120	1	ELEC.	ELEC.	NON–FUSED SWITCH	BELL & GOSSETT – e–90 1.25AAB

NOTES:
1. PUMPS SHALL BE NON–OVERLOADING.
2. PERFORMANCE IS BASED ON WATER.

FINNED TUBE RADIATION HEATER (HOT WATER) SCHEDULE

SYM	SERVICE	FIN HEIGHT (IN)	FIN WIDTH (IN)	ELEMENT PIPE DIA. (IN)	ELEMENT LENGTH (FT.–IN.)	FINS/FT (IN)	BTU/HR/LFT	WATER FLOW (GPM)	WATER EWT (°F)	WATER LWT (°F)	WATER MAX WPD (FT HD)	ENCLOSURE TYPE	ENCLOSURE LENGTH (FT.–IN.)	ENCLOSURE HEIGHT (IN)	ENCLOSURE DEPTH (IN)	MANUFACTURER AND MODEL
FTR–1	MEDIA CENTER 121	3–5/8	4–1/4	3/4	10'–0"	32	930	1.0	180	160	5.0	FLAT TOP, TOP DISCHARGE	12'–0"	14	5–5/16	VULCAN LINOVECTOR II LV4–T14
FTR–2	CONFERENCE 129	3–5/8	4–1/4	3/4	4'–0"	32	930	0.5	180	160	5.0	SLOPED TOP	15'–0"	14	5–5/16	VULCAN LINOVECTOR II LV4–S14
FTR–3	STORAGE 130	3–5/8	4–1/4	3/4	4'–0"	32	930	0.5	180	160	5.0	SLOPED TOP	5'–3"	14	5–5/16	VULCAN LINOVECTOR II LV4–S14
FTR–4	OFFICE 132	3–5/8	4–1/4	3/4	4'–0"	32	930	0.5	180	160	5.0	SLOPED TOP	9'–11"	14	5–5/16	VULCAN LINOVECTOR II LV4–S14
FTR–5	OFFICE 133	3–5/8	4–1/4	3/4	4'–0"	32	930	0.5	180	160	5.0	SLOPED TOP	7'–6"	14	5–5/16	VULCAN LINOVECTOR II LV4–S14

NOTES:
1. CONTRACTOR SHALL FIELD MEASURE FOR EXACT ENCLOSURE LENGTHS.
2. ELEMENT SHALL BE COPPER PIPING AND ALUMINUM FINS.
3. PROVIDE WALL TO WALL ENCLOSURE. PROVIDE END CAP WHERE COLUMNS INTERFERE.
4. PROVIDE WALL SLEEVES, WALL SLEEVE SUPPORTS, BACKPLATES, BRACKETS, AND END CAPS TO CONCEAL PIPING, VALVES, AND FITTINGS AS NEEDED.
5. FURNISH WITH THERMOSTATIC RADIATOR VALVE, DANFOSS OR EQUIVALENT, WITH ACCESS PANEL IN ENCLOSURE.

HYDRONIC AIR COIL (HOT WATER) SCHEDULE

SYM	SERVICE	CAPACITY (MBH)	ROWS	FACE VELOCITY (FPM)	AIR FLOW (CFM)	AIR EAT (°F)	AIR LAT (°F)	AIR APD (IN WG)	WATER FLOW (GPM)	WATER EWT (°F)	WATER LWT (°F)	WATER VELOCITY (FPS)	WATER WPD (FT HD)	WATER VOLUME (GAL)	CONTROL VALVE CONFIG.	COIL HEADER LOCATION	DIMENSIONS LENGTH (IN)	DIMENSIONS HEIGHT (IN)	DIMENSIONS DEPTH (IN)	WEIGHT (LBS)	MANUFACTURER AND MODEL
HC–1	ERV–1	16.2	1	933	700	49.0	70.3	0.25	1.1	180	150	1.2	0.16	0.12	2–WAY	–	12	9	4	9.5	TRANE DT0B09012G0AA110BABA00A
HC–2	ERV–2	16.2	1	933	700	49.0	70.3	0.25	1.1	180	150	1.2	0.16	0.12	2–WAY	–	12	9	4	9.5	TRANE DT0B09012G0AA110BABA00A
HC–3	ERV–3	16.2	1	933	700	49.0	70.3	0.25	1.1	180	150	1.2	0.16	0.12	2–WAY	–	12	9	4	9.5	TRANE DT0B09012G0AA110BABA00A
HC–4	ERV–4	16.2	1	933	700	49.0	70.3	0.25	1.1	180	150	1.2	0.16	0.12	2–WAY	–	12	9	4	9.5	TRANE DT0B09012G0AA110BABA00A
HC–5	RTU–1	286.3	2	975	8800	60.0	90	0.47	19.1	180	150	3.63	4.0	2.11	3–WAY	LEFT	52	24	–	78.7	TRANE DWPB24052G0BA084CAAA00A

NOTES:
1. COIL HEADER LOCATION LISTED AS AIR HITS COIL.
2. COIL SHALL BE DRAINABLE.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4488
FAX: (906)228-7324

BRIGHTON OFFICE:
8148 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

ARCHITECTURE ENGINEERING CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE	BY
A	SCHEMATIC DESIGN	04.28.25	CRP
B	DESIGN DEVELOPMENT	07.24.25	CRP
0	FOR CONSTRUCTION	11.05.25	SLB

DESIGN
DRAWN
CHECKED
APPROVED SLB

MECHANICAL SCHEDULES

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M4.1

VENTILATION SCHEDULE

SYM	SERVICE	AREA (SF)	OCCUPANT LOAD	REQUIRED OUTSIDE AIR RATE		
				CFM/ PERSON	CFM/ SF	TOTAL
UV-1	CLASSROOM	815	29	10	0.12	388
UV-2	CLASSROOM	815	29	10	0.12	388
UV-3	CLASSROOM	787	28	10	0.12	375
UV-4	CLASSROOM	777	28	10	0.12	374
UV-5	CLASSROOM	752	27	10	0.12	361
UV-6	CLASSROOM	731	26	10	0.12	348
UV-7	CLASSROOM	734	26	10	0.12	349
UV-8	CLASSROOM	727	26	10	0.12	348
UV-9	CLASSROOM	862	31	10	0.12	414

VENTILATION SCHEDULE

SYM	SERVICE	AREA (SF)	OCCUPANT LOAD	REQUIRED OUTSIDE AIR RATE		
				CFM/ PERSON	CFM/ SF	TOTAL
RTU-1	CORRIDOR	6631	0	0	0.06	398
	ART	994	20	10	0.18	379
	CLASSROOM	602	21	10	0.12	283
	CLASSROOM	602	21	10	0.12	283
	CLASSROOM	799	28	10	0.12	376
	CLASSROOM	799	28	10	0.12	376
	CLASSROOM	799	28	10	0.12	376
	CLASSROOM	799	28	10	0.12	376
	STORAGE	264	0	0	0.12	32
	JANITOR	71	0	0	0.12	9
	CONFERENCE	240	12	5	0.06	75
					TOTAL =	2965
RTU-2	SCIENCE	1300	27	10	0.12	426
RTU-3	SCIENCE	1049	27	10	0.12	396
RTU-4	SCIENCE	1115	27	10	0.12	404
RTU-5	MEDIA CENTER	1800	48	10	0.12	696
RTU-6	STAFF ROOM	493	3	5	0.06	45
	CONFERENCE	297	15	5	0.06	93
	SOCIAL WORKER	255	1	5	0.06	141
	CONFERENCE	314	16	5	0.06	99
	STORAGE	75	0	0	0.12	9
	SENSORY	140	1	5	0.06	14
	SPEECH/PSY	150	1	5	0.06	14
					TOTAL =	415

GRILLE, REGISTER, DIFFUSER SCHEDULE

SYM	SERVICE	FACE SIZE (IN)	NECK SIZE (IN)	MOUNTING	COLOR	MATERIAL	TYPE	MANUFACTURER AND MODEL	REMARKS
A	SUPPLY	24x24	SEE PLANS	NOTE 1	WHITE	STEEL	SQUARE CONE	PRICE SCDA	ADJUSTABLE, 4-CONE
B	SUPPLY	12x12	SEE PLANS	NOTE 1	WHITE	STEEL	SQUARE CONE	PRICE SCDA	ADJUSTABLE, 3-CONE
C	SUPPLY	12x12	SEE PLANS	NOTE 1	WHITE	STEEL	SQUARE CONE	PRICE SCDA	ADJUSTABLE, 3-CONE, RADIAL OPPOSED BLADE DAMPER OPERATED AT FACE OF DIFFUSER
D	SUPPLY	24x24	12x12	NOTE 1	WHITE	STEEL	PERFORATED	PRICE PDDR	–
E	SUPPLY	NECK SIZE +2"	6x6	SIDEWALL	WHITE	STEEL	LOUVERED	PRICE 510	SINGLE DEFLECTION
F	SUPPLY	4'	SEE PLANS	NOTE 1	WHITE	STEEL	LINEAR	PRICE ASTI210	WITH INSULATED PLENUM, 2x 1-INCH SLOTS
G	RETURN	24x24	SEE PLANS	NOTE 1	WHITE	STEEL	PERFORATED	PRICE PDDR	–
H	RETURN	24x12	18x6	NOTE 1	WHITE	STEEL	PERFORATED	PRICE PDDR	–
J	RETURN	12x12	SEE PLANS	NOTE 1	WHITE	STEEL	PERFORATED	PRICE PDDR	RADIAL OPPOSED BLADE DAMPER OPERATED AT FACE OF DIFFUSER

NOTES:
1. REFER TO ARCHITECTURAL CEILING PLAN AND COORDINATE FRAME TYPE ACCORDINGLY.

GRAVITY VENTILATOR SCHEDULE

SYM	APPLICATION	SERVICE	CFM	ROOF OPENING SIZE (IN)	THROAT DIA. (IN)	CURB CAP SIZE (IN)	CURB HEIGHT (IN)	FREE AREA (FT²)	THROAT VELOCITY (FPM)	PRESSURE DROP (IN WC)	MANUFACTURER AND MODEL
GV-1	INTAKE	STORAGE	45	10.5 x 10.5	8	19 x 19	24	–	122	0.003	GREENHECK GRSI-8
GV-2	RELIEF	STORAGE	45	10.5 x 10.5	8	19 x 19	24	–	122	0.002	GREENHECK GRSR-8
GV-3	RELIEF	SCIENCE	1200	18.5 x 18.5	16	26 x 26	24	1.0	828	0.08	GREENHECK GRSR-16
GV-4	INTAKE	STORAGE	45	10.5 x 10.5	8	19 x 19	24	–	122	0.003	GREENHECK GRSI-8
GV-5	RELIEF	STORAGE	45	10.5 x 10.5	8	19 x 19	24	–	122	0.002	GREENHECK GRSR-8
GV-6	RELIEF	SCIENCE	1200	18.5 x 18.5	16	26 x 26	24	1.0	828	0.08	GREENHECK GRSR-16
GV-7	RELIEF	SCIENCE	1200	18.5 x 18.5	16	26 x 26	24	1.0	828	0.08	GREENHECK GRSR-16
GV-8	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16
GV-9	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16
GV-10	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16
GV-11	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16
GV-12	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16
GV-13	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16
GV-14	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16
GV-15	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16
GV-16	RELIEF	CLASSROOM	1000	18.5 x 18.5	16	26 x 26	24	1.0	690	0.05	GREENHECK GRSR-16

NOTES:
1. PROVIDE WITH BIRD SCREEN AND MOTORIZED BACKDRAFT DAMPER.
2. PROVIDE WITH MINIMUM 24" TALL INSULATED CURB.

MINI SPLIT INDOOR UNIT SCHEDULE

SYM	SERVICE	ASSOCIATED OUTDOOR UNIT	UNIT TYPE	TOTAL COOLING CAPACITY (MBH)	SENSIBLE COOLING CAPACITY (MBH)	TOTAL HEATING CAPACITY (MBH)	REFRIGERANT			DIMENSIONS			ELECTRICAL				DISCONNECT			MANUFACTURER AND MODEL
							TYPE	LIQUID (IN)	SUCTION (IN)	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	MOCP	MCA	VOLTS	PHASE	FURN. BY	INST. BY	TYPE	
AC-1	BAND	ACCU-1	CASSETTE	17.5	11.7	19.4	R454B	1/4	1/2	24-19/32	24-19/32	9-21/32	15.0	0.36	208	1	ELEC.	ELEC.	NON-FUSED SWITCH	MITSUBISHI PLFY-L18NFMU
AC-2	BAND	ACCU-1	CASSETTE	17.5	11.7	19.4	R454B	1/4	1/2	24-19/32	24-19/32	9-21/32	15.0	0.36	208	1	ELEC.	ELEC.	NON-FUSED SWITCH	MITSUBISHI PLFY-L18NFMU

MINI SPLIT OUTDOOR UNIT SCHEDULE

SYM	SERVICE	ASSOCIATED INDOOR UNIT	COOLING			HEATING		COMPRESSOR		REFRIGERANT			ELECTRICAL			DISCONNECT			MANUFACTURER AND MODEL
			NOMINAL TONNAGE	TOTAL CAPACITY (MBH)	DESIGN AMBIENT (°F)	TOTAL CAPACITY (MBH)	DESIGN AMBIENT (°F)	NO.	TYPE	TYPE	LIQUID (IN)	SUCTION (IN)	RECC. FUSE SIZE	VOLTS	PHASE	FURN. BY	INST. BY	TYPE	
ACCU-1	BAND	AC-1 & AC-2	3.0	35.1	95	39.0	-4.6	1	SCROLL	R454B	1/4	1/2	40	208	1	ELEC.	ELEC.	NON-FUSED SWITCH	MITSUBISHI MXZ-SM36NLHZ

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4488
FAX: (906)228-7324

BIRGHTON OFFICE:
8711 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

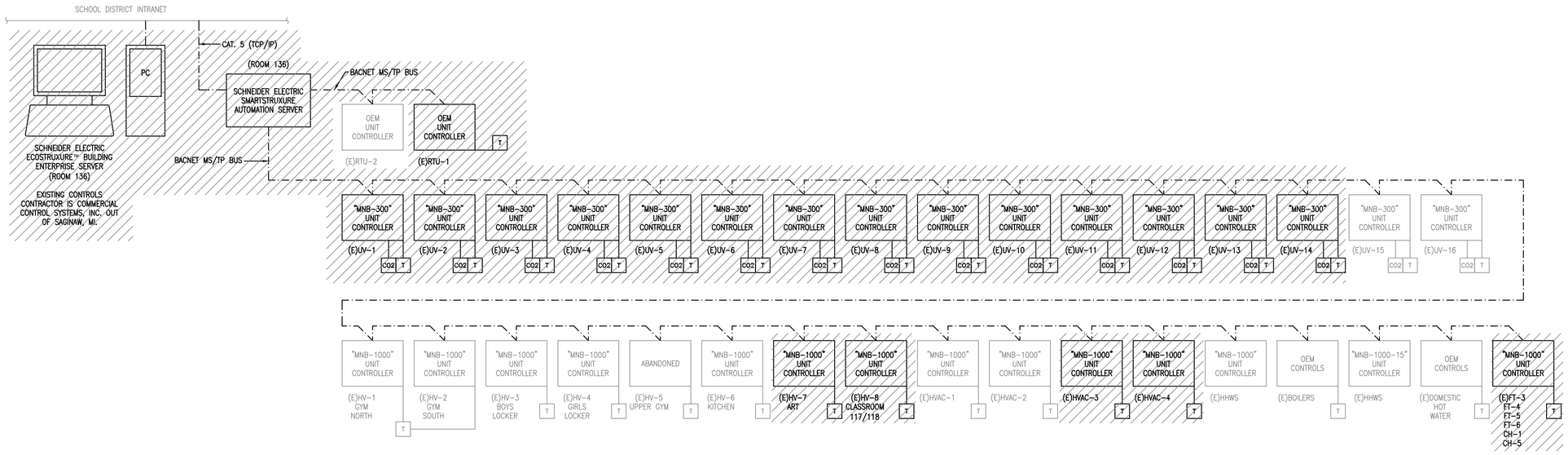
NO.	REVISIONS	DATE
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

MECHANICAL
SCHEDULES

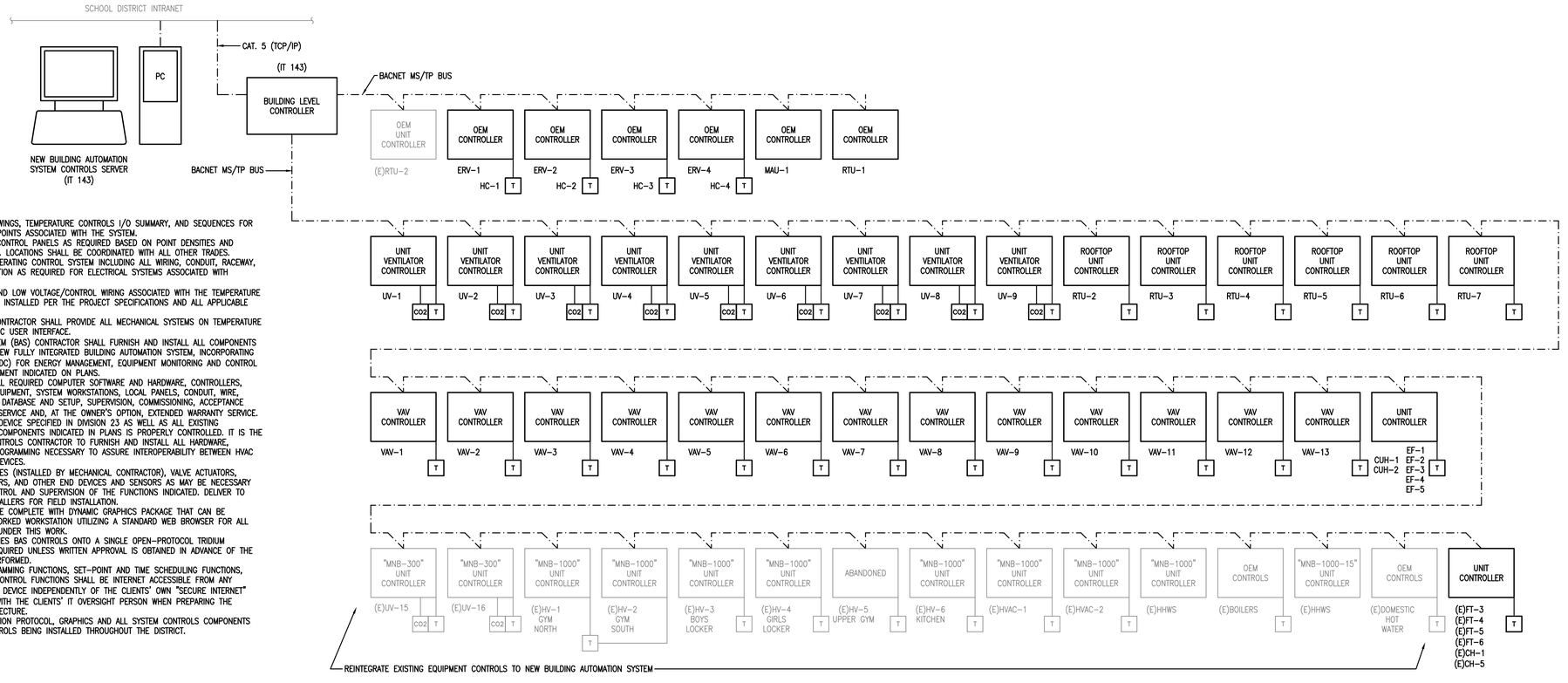
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M4.2



EXISTING BUILDING AUTOMATION SYSTEM DIAGRAM

NTS



DDC SYSTEM ARCHITECTURE:

NOTES:

1. REFER TO MECHANICAL DRAWINGS, TEMPERATURE CONTROLS I/O SUMMARY, AND SEQUENCES FOR THE MINIMUM NUMBER OF POINTS ASSOCIATED WITH THE SYSTEM.
2. VERIFY AND PROVIDE DDC CONTROL PANELS AS REQUIRED BASED ON POINT DENSITIES AND AVAILABLE MOUNTING SPACE. LOCATIONS SHALL BE COORDINATED WITH ALL OTHER TRADES.
3. PROVIDE COMPLETE AND OPERATING CONTROL SYSTEM INCLUDING ALL WIRING, CONDUIT, RACEWAY, CONNECTIONS, AND PROTECTION AS REQUIRED FOR ELECTRICAL SYSTEMS ASSOCIATED WITH TEMPERATURE CONTROLS.
4. ALL ELECTRICAL SYSTEMS AND LOW VOLTAGE/CONTROL WIRING ASSOCIATED WITH THE TEMPERATURE CONTROL SYSTEM SHALL BE INSTALLED PER THE PROJECT SPECIFICATIONS AND ALL APPLICABLE CODES.
5. TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE ALL MECHANICAL SYSTEMS ON TEMPERATURE CONTROLS NETWORK GRAPHIC USER INTERFACE.
6. BUILDING AUTOMATION SYSTEM (BAS) CONTRACTOR SHALL FURNISH AND INSTALL ALL COMPONENTS NECESSARY TO INSTALL A NEW FULLY INTEGRATED BUILDING AUTOMATION SYSTEM, INCORPORATING DIRECT DIGITAL CONTROL (DDC) FOR ENERGY MANAGEMENT, EQUIPMENT MONITORING AND CONTROL FOR ALL MECHANICAL EQUIPMENT INDICATED ON PLANS.
7. THE BAS SHALL INCLUDE ALL REQUIRED COMPUTER SOFTWARE AND HARDWARE, CONTROLLERS, SENSORS, TRANSMISSION EQUIPMENT, SYSTEM WORKSTATIONS, LOCAL PANELS, CONDUIT, WIRE, INSTALLATION, ENGINEERING, DATABASE AND SETUP, SUPERVISION, COMMISSIONING, ACCEPTANCE TEST, TRAINING, WARRANTY SERVICE AND, AT THE OWNER'S OPTION, EXTENDED WARRANTY SERVICE.
8. ASSURE THAT EVERY HVAC DEVICE SPECIFIED IN DIVISION 23 AS WELL AS ALL EXISTING MECHANICAL SYSTEMS AND COMPONENTS INDICATED IN PLANS IS PROPERLY CONTROLLED. IT IS THE RESPONSIBILITY OF THE CONTROLS CONTRACTOR TO FURNISH AND INSTALL ALL HARDWARE, SOFTWARE, RELAYS, AND PROGRAMMING NECESSARY TO ASSURE INTEROPERABILITY BETWEEN HVAC SYSTEMS, EQUIPMENT, OR DEVICES.
9. PROVIDE ALL CONTROL VALVES (INSTALLED BY MECHANICAL CONTRACTOR), VALVE ACTUATORS, DAMPER ACTUATORS, SENSORS, AND OTHER END DEVICES AND SENSORS AS MAY BE NECESSARY TO PROVIDE COMPLETE CONTROL AND SUPERVISION OF THE FUNCTIONS INDICATED. DELIVER TO HVAC OR APPROPRIATE INSTALLERS FOR FIELD INSTALLATION.
10. CONTROLS SYSTEM SHALL BE COMPLETE WITH DYNAMIC GRAPHICS PACKAGE THAT CAN BE ACCESSED FROM ANY NETWORKED WORKSTATION UTILIZING A STANDARD WEB BROWSER FOR ALL SYSTEMS BEING INSTALLED UNDER THIS WORK.
11. INTEGRATION OF ALL FACILITIES BAS CONTROLS ONTO A SINGLE OPEN-PROTOCOL TRIDIUM CONTROLS PLATFORM IS REQUIRED UNLESS WRITTEN APPROVAL IS OBTAINED IN ADVANCE OF THE CONTROLS WORK BEING PERFORMED.
12. LOG ON TO ACCESS PROGRAMMING FUNCTIONS, SET-POINT AND TIME SCHEDULING FUNCTIONS, TREND LOGS, AND OTHER CONTROL FUNCTIONS SHALL BE INTERNET ACCESSIBLE FROM ANY COMPUTER OR WEB PORTAL DEVICE INDEPENDENTLY OF THE CLIENTS' OWN "SECURE INTERNET" NETWORK. WORK CLOSELY WITH THE CLIENTS' IT OVERSIGHT PERSON WHEN PREPARING THE CONTROLS NETWORK ARCHITECTURE.
13. PROVIDE OPEN-COMMUNICATION PROTOCOL, GRAPHICS AND ALL SYSTEM CONTROLS COMPONENTS FOR ALL BAS SYSTEM CONTROLS BEING INSTALLED THROUGHOUT THE DISTRICT.

NEW BUILDING AUTOMATION SYSTEM DIAGRAM

NTS

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

BY	
CRP	DESIGN
CRP	DRAWN
SLB	CHECKED
SLB	APPROVED

TEMPERATURE CONTROLS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M5.0

UNIT VENTILATOR (UV)

1. OCCUPIED AND UNOCCUPIED MODES ARE ESTABLISHED THROUGH THE BUILDING AUTOMATION SYSTEM (BAS).
2. FAN OPERATION:
   - 2.1. IN OCCUPIED MODE THE FAN OPERATES CONTINUOUSLY.
   - 2.2. IN UNOCCUPIED MODE THE FAN CYCLES TO MAINTAIN A MODIFIED SPACE TEMPERATURE (LOWER IN HEATING SEASON AND WARMER IN COOLING SEASON). THE OUTSIDE AIR DAMPER IN THE UNIT VENTILATOR AND THE RELIEF AIR DAMPER ON THE ROOF SHALL BE CLOSED. THE RETURN AIR DAMPER SHALL REMAIN OPEN. REFRIGERATION (AS APPLICABLE) SHALL REMAIN DE-ENERGIZED.
3. UNOCCUPIED MODE OR MORNING WARM-UP: WHEN THE ROOM TEMPERATURE IS BELOW SPACE SENSOR SET POINT, THE OUTSIDE AND RELIEF AIR DAMPERS SHALL BE CLOSED. THE HEATING COIL VALVE SHALL BE 100 % OPEN. THE SUPPLY AIR FAN SHALL CYCLE ON TO MAINTAIN ROOM TEMPERATURE AND THE UNIT VENTILATOR IS OPERATING AT FULL HEATING CAPACITY. THE OUTSIDE/RELIEF AIR DAMPERS SHALL BE CLOSED WHENEVER THE UNIT IS NOT RUNNING. HEATING COIL WATER VALVE SHALL OPEN WHENEVER THE UNIT FAN IS NOT RUNNING AND WHEN OUTSIDE AIR TEMPERATURE IS BELOW 25F (ADJUSTABLE).
4. OCCUPIED MODE: FAN SHALL OPERATE CONTINUOUSLY. ECM FAN SPEED SHALL VARY FROM HIGH SPEED IN MORNING WARM-UP TO LOW SPEED AS ROOM TEMPERATURE APPROACHES 1 DEG F OF SPACE SENSOR SET POINT. OUTSIDE AND RELIEF AIR DAMPERS SHALL BE POSITIONED AS REQUIRED TO SATISFY ROOM CO2 SENSOR OR ROOM TEMPERATURE SENSOR COOLING SET-POINT (ECONOMIZER). THE HEATING COIL VALVE SHALL MODULATE TO SATISFY ROOM SPACE TEMPERATURE SENSOR.
   - 4.1. OCCUPIED HEATING: HEATING COIL VALVE SHALL MODULATE TO MAINTAIN ROOM TEMPERATURE. FAN IS ON CONTINUOUSLY AND OUTSIDE/RELIEF DAMPERS ARE CONTROLLED BY CO2 SENSOR.
   - 4.2. OCCUPIED COOLING: ON A RISE IN SPACE TEMPERATURE, THE HEATING COIL VALVE WILL MODULATE TOWARD THE FULLY CLOSED POSITION. UPON A STILL FURTHER RISE IN SPACE TEMPERATURE, THE OUTDOOR AIR AND RETURN AIR DAMPERS SHALL MODULATE TOWARD THEIR FULLY OPEN AND CLOSED POSITIONS RESPECTIVELY. AS THE ROOM TEMPERATURE INCREASES FURTHER, THE OUTSIDE AIR DAMPER SHALL RETURN TO ITS MINIMUM POSITION TO ADMIT THE MINIMUM AMOUNT OF OUTSIDE AIR REQUIRED FOR VENTILATION AND THE RE-CIRCULATED AIR DAMPER IS CLOSED PROPORTIONATELY. THE HEATING COIL VALVE IS CLOSED, AND THE DX COOLING CYCLE IS INITIATED.
5. ECONOMIZER: THE OUTSIDE AND RELIEF AIR DAMPERS SHALL BE POSITIONED TO ADMIT THE MINIMUM AMOUNT OF OUTSIDE AIR REQUIRED FOR VENTILATION AS DETERMINED BY THE CO2 SENSOR. THE HEATING COIL VALVE SHALL BE CLOSED. AS THE SPACE TEMPERATURE CONTINUES TO RISE TO 4 DEG F ABOVE HEATING TEMPERATURE SET-POINT (4 DEG F DEAD-BAND (ADJ)), THE OUTSIDE/RELIEF AIR DAMPERS SHALL BEGIN TO ADMIT MORE OUTSIDE AIR UNTIL THE DAMPERS ARE POSITIONED TO ADMIT 100 PERCENT OUTSIDE AIR. THE UNIT IS DELIVERING ITS FULL NATURAL COOLING CAPACITY.
6. LOW LIMIT SAFETY: A LOW LIMIT MIXED AIR TEMPERATURE SENSOR SHALL BE LOCATED IN THE BOTTOM PORTION OF THE CABINET OR AT THE FACE OF THE HEATING COIL TO PREVENT THE DISCHARGE TEMPERATURE FROM FALLING BELOW A PREDETERMINED LIMIT (40 DEG F ADJ). THE LOW LIMIT SENSOR SHALL OVERRIDE THE SIGNAL FROM THE ROOM THERMOSTAT AND CO2 SENSOR AND CONTROL BOTH THE HEATING SOURCE AND OUTSIDE AIR.

PACKAGED COOLING-ONLY ROOFTOP UNIT (VARIABLE AIR VOLUME W/VFD CONTROL) (RTU-1) AND DUCT HEATING COIL (HC-5/P-3)

1. WITH THE SUPPLY FAN VARIABLE SPEED DRIVE HAND/OFF/AUTO SWITCH IN THE "AUTO" POSITION, THE SUPPLY FAN SHALL BE AUTOMATICALLY STARTED AND STOPPED THROUGH THE BAS CONTROLS BASED ON THE OPTIMUM START PROGRAM AND THE OCCUPANCY SCHEDULE. THE UNIT FAN SHALL OPERATE CONTINUOUSLY DURING OCCUPIED PERIODS AND CYCLED BY THE BAS SYSTEM ON A CALL FOR HEAT DURING UNOCCUPIED PERIODS TO MAINTAIN A TEMPERATURE OF 65 F, AS SENSED BY ANY OF THE VARIABLE AIR VOLUME BOX SPACE SENSORS. IF THE SUPPLY FAN IS STARTED PRIOR TO THE OCCUPANCY SCHEDULE, THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED AND THE RETURN DAMPER SHALL BE OPEN IN A 100% RE-CIRCULATION MODE.
2. WHENEVER THE SUPPLY FAN IS ENERGIZED DURING THE OCCUPIED MODE, THE OUTSIDE AIR DAMPER SHALL OPEN TO ITS MINIMUM POSITION.
3. PROOF OF FLOW FOR THE SUPPLY FAN SHALL BE VERIFIED TO THE BAS SYSTEM BY THE FAN AIR FLOW CURRENT SENSOR.
4. THE BAS SYSTEM SHALL MODULATE THE SUPPLY FAN VARIABLE SPEED DRIVE VIA THE SUPPLY DUCT STATIC PRESSURE SENSOR(S) TO MAINTAIN A MINIMUM STATIC PRESSURE IN THE SUPPLY DUCT TO INSURE PROPER TERMINAL BOX OPERATION. THE SUPPLY DUCT STATIC PRESSURE SHALL BE FIELD SET TO MAINTAIN THE NECESSARY STATIC PRESSURE TO BALANCE OUT THE SYSTEM AT THE FARTHEST POINT IN THE DUCT PRIOR TO THE LAST THREE VAV BOXES WHEN THOSE BOXES ARE 95% OPEN. IF MULTIPLE SENSING LOCATIONS ARE SHOWN, THE BAS SHALL MAINTAIN THE STATIC PRESSURE SETPOINT AT THE LOWEST READING SENSOR.
5. A DIFFERENTIAL PRESSURE CONTROL SYSTEM SHALL USE A DIFFERENTIAL PRESSURE TRANSDUCER TO COMPARE INDOOR BUILDING PRESSURE TO OUTDOOR AMBIENT ATMOSPHERIC PRESSURE AND SHALL TURN THE POWERED EXHAUST FANS ON AND OFF AND MODULATE THE BAROMETRIC EXHAUST DAMPERS TO CONTROL THE BUILDING PRESSURE TO WITHIN THE ADJUSTABLE, SPECIFIED DEAD BAND.
6. A DISCHARGE HIGH-LIMIT STATIC PRESSURE SENSOR LOCATED AT THE AHU SHALL OVERRIDE THE SUPPLY FAN SPEED THROUGH THE BAS SYSTEM TO PREVENT THE DISCHARGE STATIC PRESSURE FROM EXCEEDING ITS HIGH LIMIT.
7. THE DISCHARGE AIR TEMPERATURE SENSOR LOCATED IN THE SUPPLY AIR DUCT DOWNSTREAM OF THE AHU SHALL MODULATE THE HEATING COIL CONTROL VALVE, THE OUTSIDE, RETURN, AND EXHAUST AIR DAMPERS, (AND COOLING COIL CONTROL VALVE) IN SEQUENCE TO MAINTAIN THE DISCHARGE AIR TEMPERATURE SET POINT.
8. ON A DEMAND FOR HEATING, THE COIL HEATING WATER PUMP SHALL RUN AND THE THREE-WAY CONTROL VALVE SHALL GRADUALLY MODULATE FLOW THROUGH THE HEATING COIL AS REQUIRED TO RAISE THE DISCHARGE AIR TEMPERATURE.
9. ON A CALL FOR COOLING, THE HEATING VALVE SHALL BE CLOSED, AND THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL MODULATE OPEN TO MAINTAIN THE DISCHARGE AIR SET-POINT IF THE ENTHALPY CONTROL DETERMINES THAT OUTSIDE TEMPERATURE AND HUMIDITY CAN PROVIDE ECONOMIZER COOLING. IF THE OUTSIDE AIR CONDITIONS CANNOT SATISFY THE DISCHARGE AIR REQUIREMENTS, THE OUTSIDE AND EXHAUST AIR DAMPERS SHALL RETURN TO THEIR MINIMUM VENTILATION SETTINGS AND THE DX COOLING SHALL BE INITIATED ON.
10. IF THE LOW TEMPERATURE PROTECTION THERMOSTAT SENSES TEMPERATURE BELOW ITS SET POINT, IT WILL SHUT DOWN THE UNIT AND OPEN COIL VALVES FULLY. THE LOWER LIMIT THERMOSTAT MUST BE MANUALLY RESET.
11. A CARBON DIOXIDE SENSOR LOCATED EITHER IN THE MAIN RETURN AIR DUCT, OR IN A SPACE AS INDICATED ON THE DRAWING, SHALL OVER-RIDE THE DAMPER POSITION AND MODULATE OPEN THE OUTSIDE AIR DAMPER IF THE SENSOR LIMIT SE-POINT IS EXCEEDED. WHEN THE OUTSIDE AIR DAMPER IS MODULATED OPEN, THE RETURN AIR DAMPER SHALL MODULATE CLOSED AND THE EXHAUST AIR DAMPER SHALL OPEN PROPORTIONATELY.
12. DUCT SMOKE DETECTORS LOCATED IN THE SUPPLY AND RETURN DUCTS WILL STOP THE UNIT IF SMOKE IS SENSED. SMOKE DETECTORS MUST BE MANUALLY RESET.

VARIABLE AIR VOLUME TERMINALS (VAV-1 THRU VAV 13)

1. THE VAV TERMINAL UNIT MINIMUM AND MAXIMUM AIR FLOW SHALL BE MAINTAINED AS INDICATED ON THE AIR TERMINAL UNIT SCHEDULE.
2. AS THE SPACE TEMPERATURE FALLS BELOW THE SET-POINT, THE TERMINAL UNIT CONTROLLER WILL KEEP THE SUPPLY FAN AIR FLOW AT MINIMUM SETTING AND WILL MODULATE THE REHEAT COIL CONTROL VALVE TO MAINTAIN SPACE TEMPERATURE SET-POINT.
3. AS THE SPACE TEMPERATURE RISES ABOVE THE SET-POINT, THE TERMINAL UNIT CONTROLLER WILL KEEP REHEAT COIL VALVE CLOSED AND SHALL MODULATE THE SUPPLY AIR FLOW BETWEEN ITS MINIMUM AND MAXIMUM SETTING TO MAINTAIN SPACE TEMPERATURE.
4. DURING THE UNOCCUPIED MODE, THE VAV TERMINAL UNIT CONTROLLER WILL SET BACK THE SPACE TEMPERATURE SET-POINT (FOR HEATING) 65 DEGREES F (ADJUSTABLE). AIR FLOW SETTING SHALL BE ALLOWED TO MODULATE BETWEEN MINIMUM AND MAXIMUM SETTINGS IN THE UNOCCUPIED MODE. DURING THE OCCUPIED PERIOD, THE VAV TERMINAL CONTROLLER SHALL SET THE SPACE TEMPERATURE SET-POINT FOR HEATING TO BETWEEN 70 AND 74 DEGREES F (MANUALLY ADJUSTABLE AT THE SPACE SENSOR THROUGH A RANGE OF 4 DEGREES F). THE ALLOWABLE TEMPERATURE RANGE SHALL BE ADJUSTABLE THROUGH THE DDC SYSTEM.
5. STATIC SET-POINT RESET:
   - A. PROVIDE STATIC PRESSURE SET-POINT RESET BASED ON ZONE DEMAND AS REQUIRED BY ASHRAE STANDARD 90.1 FOR SYSTEMS WITH DDC CONTROL AT THE ZONE LEVEL. THE BASIC LOGIC BEHIND STATIC PRESSURE SET-POINT RESET IS SIMPLY TO ADJUST, IN A STABLE MANNER, THE STATIC PRESSURE SET-POINT UNTIL ONE VAV ZONE DAMPER IS WIDE OPEN.
   - B. USE "TRIM AND RESPOND" CONTROL LOOP LOGIC TO ADJUST STATIC PRESSURE SET-POINT. STATIC PRESSURE SET-POINT SHALL BE RESET USING TRIM AND RESPOND LOGIC WITHIN THE RANGE OF 0.15 IN. W.G. TO 1.3 IN. W.G.. WHEN THE FAN IS OFF, THE SET-POINT SHALL BE 0.5 IN. W.G. WHILE THE FAN IS PROVEN ON, EVERY TWO MINUTES, TRIM THE SET-POINT BY 0.04 IN. W.G. RESPOND BY INCREASING THE SET-POINT BY 0.03 IN. W.G. TIMES THE NUMBER OF PRESSURE REQUESTS BUT NO MORE THAN 0.12 IN. W.G.
   - C. CONTROLS MUST BE TUNED IN THE FIELD, AND TREND LOGS OF SYSTEM OPERATION USED TO VERIFY THAT THE LOGIC IS STABLE; AND THAT ROGUE ZONES ARE NOT LIMITING THE RESET RANGE.
   - D. TREND LOG OF ACTUAL STATIC PRESSURE MEASURED NEAR THE END OF THE DUCT MAIN(S), STATIC PRESSURE SET-POINT, AND ZONE PRESSURE REQUESTS, SHALL BE USED TO DEMONSTRATE THAT THE RESET IS NOT TOO FAST.

PACKAGED GAS HEATING & ELECTRIC COOLING ROOFTOP UNITS (RTU-2, RTU-3, RTU-4, RTU-5, RTU-6)

1. PACKAGED ROOFTOP UNITS SHALL BE FACTORY FURNISHED WITH ELECTROMECHANICAL CONTROLS. CONTROLS CONTRACTOR SHALL FIELD INSTALL A CONTROLLER ON THE PACKAGED ROOFTOP UNIT THAT INTEGRATES WITH THE BAS TO PROVIDE THE CONTROL SEQUENCE FUNCTIONS DESCRIBED.
2. BAS SYSTEM SHALL PROVIDE SPACE TEMPERATURE SET-POINT CONTROL FOR ROOFTOP UNITS.
3. THE BAS SYSTEM CONTROLLER SHALL SEND THE RTU CONTROLLER START/STOP INITIATION, OCCUPIED/UNOCCUPIED TIME SCHEDULING FUNCTIONS, MORNING WARM-UP/PRECOOL, AND HEATING/COOLING MODES.
4. DURING UNOCCUPIED MODE, THE RTU SHALL SHUT-OFF. IF THE ZONE TEMPERATURE DRIFTS TO THE UNOCCUPIED HEATING OR COOLING SETPOINT, THE RTU SHALL START AND PROVIDE THE NECESSARY HEATING OR COOLING TO SATISFY THE ZONE TEMPERATURE. THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED UNLESS ECONOMIZING.
5. THE SYSTEM CONTROLLER SHALL AUTOMATICALLY DETERMINE THE OPTIMUM START TIME SO THAT EACH ZONE REACHES ITS OCCUPIED SETPOINT IN TIME FOR THE SCHEDULED OCCUPANCY.
6. FOR THOSE ZONES EQUIPPED WITH AN OCCUPANCY SENSOR OR WITH A CO2 SENSOR, OUTDOOR AIRFLOW SHALL BE RESET BASED ON OCCUPANCY STATUS AND OR MEASURED CO2 CONCENTRATION.
7. OUTSIDE AIR QUANTITY FOR A UNIT SERVING A SINGLE ZONE SHALL BE DETERMINED BY A WALL MOUNTED CO2 SENSOR LOCATED WITHIN THE SPACE.
8. GAS BURNER STAGING/FIRING MODULATION, DAMPER POSITION/MODULATION, COOLING COMPRESSOR AND CONDENSER FAN SEQUENCING SHALL BE PERFORMED BY THE FACTORY INSTALLED MICROPROCESSOR CONTROLS.
9. RTU FAN STATUS SHALL BE PROVEN THRU THE BAS AND AN ALARM SENT IF AT ANY TIME THE FAN STOPS OPERATING WHEN PROGRAMMED TO BE ON.

BAS INPUT/OUTPUT SUMMARY FORM

PROJECT: COLEMAN COMMUNITY SCHOOLS JR/SR HIGH SCHOOL RENOVATIONS

SYM.	POINT DESCRIPTION	HARDWARE POINTS ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT	3RD PARTY INTEGRATION POINTS ISSUED	AQUIRED	GRAPHICAL USER INTERFACE DISPLAY	ADJUST.	ALARM	NOTES
UV (TYP)	SUPPLY FAN STATUS			X				X		X	
	SUPPLY FAN START/STOP				X			X			
	SUPPLY FAN SPEED		X					X	X		
	MIXED AIR DAMPER COMMAND		X					X	X		
	DISCHARGE AIR TEMPERATURE	X						X			
	FREEZE STAT STATUS			X				X		X	
	HEATING COIL VALVE COMMAND		X					X	X		
	REFRIGERATION COMMAND				X			X			
	SPACE TEMPERATURE LOCAL SETPOINT ADJUSTMENT	X						X			WITH PUSHBUTTON OVERRIDE
	SPACE CARBON DIOXIDE CONCENTRATION	X						X			
	SPACE TEMPERATURE SETPOINT							X	X		WITH UNOCCUPIED SETPOINT INPUT AND ADJUSTMENT
	SPACE CARBON DIOXIDE CONCENTRATION SETPOINT							X	X		
	REFRIGERATION OUTSIDE AIR TEMPERATURE ENABLE SETPOINT							X	X		
	OCCUPANCY SCHEDULE							X	X		
	RELIEF AIR MOTORIZED DAMPER		X								INTERLOCKED WITH MIXED AIR DAMPER COMMAND

BAS INPUT/OUTPUT SUMMARY FORM

PROJECT: COLEMAN COMMUNITY SCHOOLS JR/SR HIGH SCHOOL RENOVATIONS

SYM.	POINT DESCRIPTION	HARDWARE POINTS ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT	3RD PARTY INTEGRATION POINTS ISSUED	AQUIRED	GRAPHICAL USER INTERFACE DISPLAY	ADJUST.	ALARM	NOTES
RTU-1	SUPPLY FAN STATUS			X				X		X	
	SUPPLY FAN START/STOP				X			X			
	SUPPLY FAN SPEED		X					X	X		
	EXHAUST FAN STATUS			X				X		X	
	EXHAUST FAN START/STOP				X			X			
	EXHAUST FAN SPEED		X					X	X		
	DUCT STATIC PRESSURE SENSOR	X						X			
	OUTSIDE AIR DAMPER COMMAND		X					X	X		
	EXHAUST/RELIEF DAMPER COMMAND		X					X	X		
	MIXED AIR TEMPERATURE	X						X			
	DISCHARGE AIR TEMPERATURE	X						X			
	FREEZE STAT STATUS			X				X		X	
	REFRIGERATION COMMAND				X			X			
	RETURN AIR CARBON DIOXIDE CONCENTRATION	X						X			
	RETURN AIR CARBON DIOXIDE CONCENTRATION SETPOINT							X	X		
	REFRIGERATION OUTSIDE AIR TEMPERATURE ENABLE SETPOINT							X	X		
	OCCUPANCY SCHEDULE							X	X		
	SMOKE DETECTOR										FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. INTERLOCKED TO SUPPLY FAN MOTOR STARTER BY TEMPERATURE CONTROLS CONTRACTOR.
HC-5	HEATING COIL VALVE COMMAND		X					X	X		
	DISCHARGE AIR TEMPERATURE	X						X			
P-1	PUMP STATUS			X							
	PUMP START/STOP				X						
VAV (TYP)	DISCHARGE AIR TEMPERATURE	X						X			
	SPACE TEMPERATURE LOCAL SETPOINT ADJUSTMENT	X						X	X		WITH PUSHBUTTON OVERRIDE
	SPACE CARBON DIOXIDE CONCENTRATION	X						X			
	HEATING COIL VALVE COMMAND		X					X	X		
	DAMPER COMMAND		X					X			
	AIRFLOW SENSOR	X						X			
	SPACE TEMPERATURE SETPOINT							X	X		WITH UNOCCUPIED SETPOINT INPUT AND ADJUSTMENT
	SPACE CARBON DIOXIDE CONCENTRATION SETPOINT							X	X		
	AIRFLOW MIN/MAX SETPOINT							X	X		
	OCCUPANCY SCHEDULE							X	X		

BAS INPUT/OUTPUT SUMMARY FORM

PROJECT: COLEMAN COMMUNITY SCHOOLS JR/SR HIGH SCHOOL RENOVATIONS

SYM.	POINT DESCRIPTION	HARDWARE POINTS ANALOG INPUT	ANALOG OUTPUT	DIGITAL INPUT	DIGITAL OUTPUT	3RD PARTY INTEGRATION POINTS ISSUED	AQUIRED	GRAPHICAL USER INTERFACE DISPLAY	ADJUST.	ALARM	NOTES
RTU-2 RTU-3 RTU-4 RTU-5 RTU-6	OCCUPIED COOLING SPACE TEMPERATURE SETPOINT					X		X	X		
	OCCUPIED HEATING SPACE TEMPERATURE SETPOINT					X		X	X		
	UNOCCUPIED COOLING SPACE TEMPERATURE SETPOINT					X		X	X		
	UNOCCUPIED HEATING SPACE TEMPERATURE SETPOINT					X		X	X		
	OA DAMPER MINIMUM POSITION SETPOINT					X		X	X		
	SUPPLY AIR HIGH LIMIT SETPOINT					X		X	X		
	SUPPLY AIR LOW LIMIT SETPOINT					X		X	X		
	ECONOMIZER OA TEMPERATURE DISABLE SETPOINT					X		X	X		
	REFRIGERATION OA TEMPERATURE DISABLE SETPOINT					X		X	X		
	CO2 CONCENTRATION SETPOINT					X		X	X		
	POWER EXHAUST ACTIVATION					X		X	X		
	OPTIMAL START TIME SETPOINT					X		X	X		
	OCCUPANCY OVERRIDE PUSHBUTTON TIME SETPOINT					X		X	X		
	OCCUPANCY SCHEDULE							X	X		
	POWER EXHAUST FAN STATUS						X	X			
	OUTSIDE AIR TEMPERATURE						X	X			
	OUTSIDE AIR DAMPER POSITION						X	X			
	REFRIGERATION STATUS						X	X			
	SUPPLY FAN STATUS						X	X			
	GAS HEATING STATUS						X	X			
	SUPPLY AIR TEMPERATURE						X	X			
	SPACE TEMPERATURE						X	X			
	EFFECTIVE COOLING SETPOINT						X	X			
	EFFECTIVE HEATING SETPOINT						X	X			
	CO2 CONCENTRATION						X	X			
	OCCUPANCY STATE						X	X			
	OCCUPANCY OVERRIDE PUSHBUTTON TIME REMAINING						X	X			
	FAN MODE						X	X			
	OPERATING MODE						X	X			
	SYSTEM SHUTDOWN						X	X			
	FIRE/SMOKE SHUTDOWN						X	X			
	STUCK GAS VALVE						X	X			
	SAFETY CHAIN ALARM						X	X			
	SHUTDOWN COMMAND						X	X			
	COMPRESSOR SAFETY						X	X			
	COMPRESSOR RUNTIME						X	X			
	SUPPLY FAN RUNTIME						X	X			

ARCHITECTURE ENGINEERING CONSULTING

IDI INTEGRATED DESIGNS INC.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

TEMPERATURE CONTROLS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M5.1

ENERGY RECOVERY VENTILATOR (ERV-1, ERV-2, ERV-3, ERV-4) AND DUCT HEATING COIL (HC-1, HC-2, HC-3, HC-4)

1. UNITS SHALL BE FACTORY FURNISHED WITH A BACNET COMPATIBLE CONTROLLER. CONTROLS CONTRACTOR SHALL INTEGRATE CONTROLLER TO THE BAS TO PROVIDE THE CONTROL SEQUENCE FUNCTIONS DESCRIBED.
2. SUPPLY AND RETURN FANS SHALL BE OPERATED BY AN OCCUPIED SCHEDULE.
3. TWO-POSITION DAMPERS IN THE OUTSIDE AIR DUCT AND EXHAUST DUCT SHALL OPEN UPON A START SIGNAL FROM THE BAS CONTROLS. WHEN FANS ARE PROVEN OPEN BY AN END SWITCH, SUPPLY AND RETURN FANS SHALL BE ALLOWED TO START.
4. DURING OCCUPIED PERIODS, THE ERV FANS SHALL RUN CONTINUOUSLY. DURING UNOCCUPIED PERIODS FANS SHALL REMAIN OFF.
5. ALL FAN START/STOP FUNCTION AND MOTOR CURRENT SENSOR PROOF OF FLOW SHALL BE THROUGH BAS CONTROLS.
6. DUCT SMOKE DETECTORS LOCATED IN THE SUPPLY AND RETURN DUCT WILL STOP THE UNIT FANS IF SMOKE IS SENSED. SMOKE DETECTORS MUST BE MANUALLY RESET.
7. SPACE TEMPERATURE SENSORS SHALL MAINTAIN SPACE TEMPERATURE BY MODULATING THE HEATING WATER CONTROL VALVE SERVING THE DUCT HEATING COILS IN THE SUPPLY AIR DUCT.
8. DISCHARGE AIR TEMPERATURE SENSORS LOCATED DOWNSTREAM OF THE HEATING COILS SHALL OVERRIDE THE SPACE TEMPERATURE SENSOR AND MAINTAIN A MINIMUM DISCHARGE AIR TEMPERATURE OF 50 F (ADJ.).
9. AN AVERAGING ELEMENT TYPE FREEZESTAT ON THE DISCHARGE OF THE HEATING COIL SHALL SHUT DOWN THE ERV FANS AND OPEN THE HEATING VALVE TO 100% WHENEVER THE DISCHARGE AIR TEMPERATURE DROPS BELOW 40 F (ADJ.).

BAS INPUT/OUTPUT SUMMARY FORM

PROJECT: COLEMAN COMMUNITY SCHOOLS JR/SR HIGH SCHOOL RENOVATIONS		HARDWARE POINTS				3RD PARTY INTEGRATION POINTS		GRAPHICAL USER INTERFACE			
		ANALOG		DIGITAL							
SYM.	POINT DESCRIPTION	INPUT	OUTPUT	INPUT	OUTPUT	ISSUED	AQUIRED	DISPLAY	ADJUST.	ALARM	NOTES
ERV-1 ERV-2 ERV-3 ERV-4	UNIT ENABLE/DISABLE					X		X			
	FILTER ALARM					X		X			
	ISOLATION DAMPER CONTROL					X		X			
	SUPPLY FAN ONLY MODULATION (ECM)					X		X			
	EXHAUST FAN ONLY MODULATION (ECM)					X		X			
	INTERNAL TIME CLOCK					X		X			
	SMOKE DETECTOR			X			X	X			
	MICROPROCESSOR CONTROLLER					X		X			
	SUPPLY AND EXHAUST AIR TEMPERATURE					X		X			
	OUTSIDE AND RETURN AIR TEMPERATURE AND HUMIDITY					X		X			
	FAN STATUS					X		X			
	ENABLE SUPPLY FAN ONLY					X		X			
	ENABLE EXHAUST FAN ONLY					X		X			
	DATA TRENDING					X		X			
	OUTSIDE AIRFLOW RATE					X		X			
	EXHAUST AIRFLOW RATE					X		X			
	HEATING ENABLE					X		X			
	HEATING MODULATION					X		X			
HC-1 HC-2 HC-3 HC-4	HEATING COIL VALVE COMMAND		X					X	X		
	DISCHARGE AIR TEMPERATURE	X						X			
	SPACE TEMPERATURE LOCAL SETPOINT ADJUSTMENT	X						X	X		
	SPACE TEMPERATURE SETPOINT							X	X		
	OCCUPANCY SCHEDULE							X	X		

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4488
FAX: (906)228-7324

BIRMINGHAM OFFICE:
251 MARIA ANNE DRIVE, SUITE 600
BIRMINGHAM, MI 48009
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

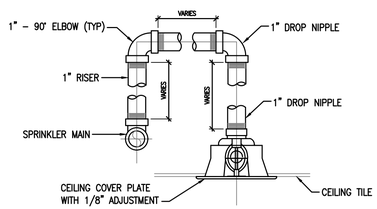
COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

	BY	NO.	REVISIONS	DATE
DESIGN	CRP	B	DESIGN DEVELOPMENT	07.24.25
DRAWN	CRP	0	FOR CONSTRUCTION	11.05.25
CHECKED	SLB			
APPROVED	SLB			

TEMPERATURE CONTROLS

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

M5.2



NOTES:
1. FOR USE IN GRID–TYPE AND HARD GYPSUM BOARD CEILINGS.
2. MAY USE VICTAULIC "VICFLEX" SERIES SPRINKLER AND FLEXIBLE HOSE ASSEMBLY.

CONCEALED PENDENT SPRINKER HEAD

N.T.S.

FIRE PROTECTION PLAN

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

AUTOMATIC SPRINKLER RISER DIAGRAM

N.T.S.

KEYNOTES

1. EXISTING SPRINKLER COVERAGE AREA.
2. EXISTING OFFICE AREA. CEILING REMOVAL AND REINSTALLATION BY ARCHITECT.
3. INSTALL NEW NFPA 13 COMPLIANT WET PIPE SPRINKLER SYSTEM IN THIS AREA..
4. CEILING REMOVAL AND REINSTALLATION BETWEEN BOILER ROOM AND RENOVATION AREA BY ARCHITECT.
5. REFER TO DETAIL THIS SHEET FOR FIRE RISER MODIFICATIONS.

GENERAL NOTES

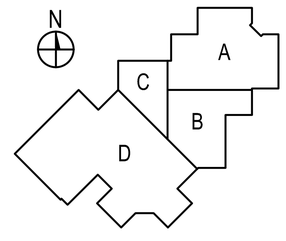
1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE FIRE PROTECTION SYSTEMS COMPLETE PER NFPA, SPECIFICATION, PER APPLICABLE CODES, AND AUTHORITIES HAVING JURISDICTION.
2. CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK OF ALL OTHER TRADES.
3. SPRINKLER PIPING SHALL NOT BE LOCATED BELOW MECHANICAL EQUIPMENT.
4. MINIMUM RUN–OUT PIPE SIZE TO SPRINKLER HEADS SHALL BE 1".
5. CONTRACTOR SHALL MAKE PRESSURE AND FLOW TEST PRIOR TO SYSTEM DESIGN. REFER TO SPECIFICATIONS FOR REQUIREMENTS.
6. CONTRACTOR SHALL MAKE APPLICATION AND PAY FOR ALL INSPECTION, PERMIT, AND LICENSE REQUIRED BY THE LOCAL AUTHORITY.
7. PROVIDE AN AUTOMATIC WET PIPE FIRE PROTECTION SYSTEM IN ACCORDANCE WITH NFPA 13 LIGHT HAZARD CLASSIFICATION FOR ALL AREAS, EXCEPT:
   - 7.1. STORAGE ROOMS
   - 7.2. MECHANICAL ROOMS
   - 7.3. JANITOR CLOSETS
8. PROVIDE AN AUTOMATIC WET PIPE FIRE PROTECTION SYSTEM IN ACCORADANCE WITH NFPA 13 ORDINARY HAZARD CLASSIFICATION FOR:
   - 8.1. STORAGE ROOMS
   - 8.2. MECHANICAL ROOMS
   - 8.3. JANITOR CLOSETS
9. CENTER SPRINKLER HEADS IN CEILING TILES WHERE APPLICABLE.
10. PLASTIC FIRE SPRINKLER PIPING EXPOSED WITHIN A PLENUM SHALL BE USED ONLY IN WET PIPE SYSTEMS AND SHALL BE LISTED AND LABELED AS HAVING A PEAK OPTICAL DENSITY NOT GREATER THAN 0.50, AN AVERAGE OPTICAL DENSITY NOT GREATER THAN 0.15, AND A FLAME SPREAD DISTANCE NOT GREATER THAN 5 FEET WHEN TESTED IN ACCORDANCE WITH UL 1887.

65,924 SF
TOTAL
33,750 SF
RENOVATION
AREA

PRIOR SPRINKLER SYSTEM TESTS

	2023	2024
STARTING WATER PSI	110	110
STATIC WATER PSI	65	70
RESIDUAL WATER PSI	45	50

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324
BIRCH RUN OFFICE:
8515 MAIN STREET, SUITE 600
BIRCH RUN, MI 48415
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

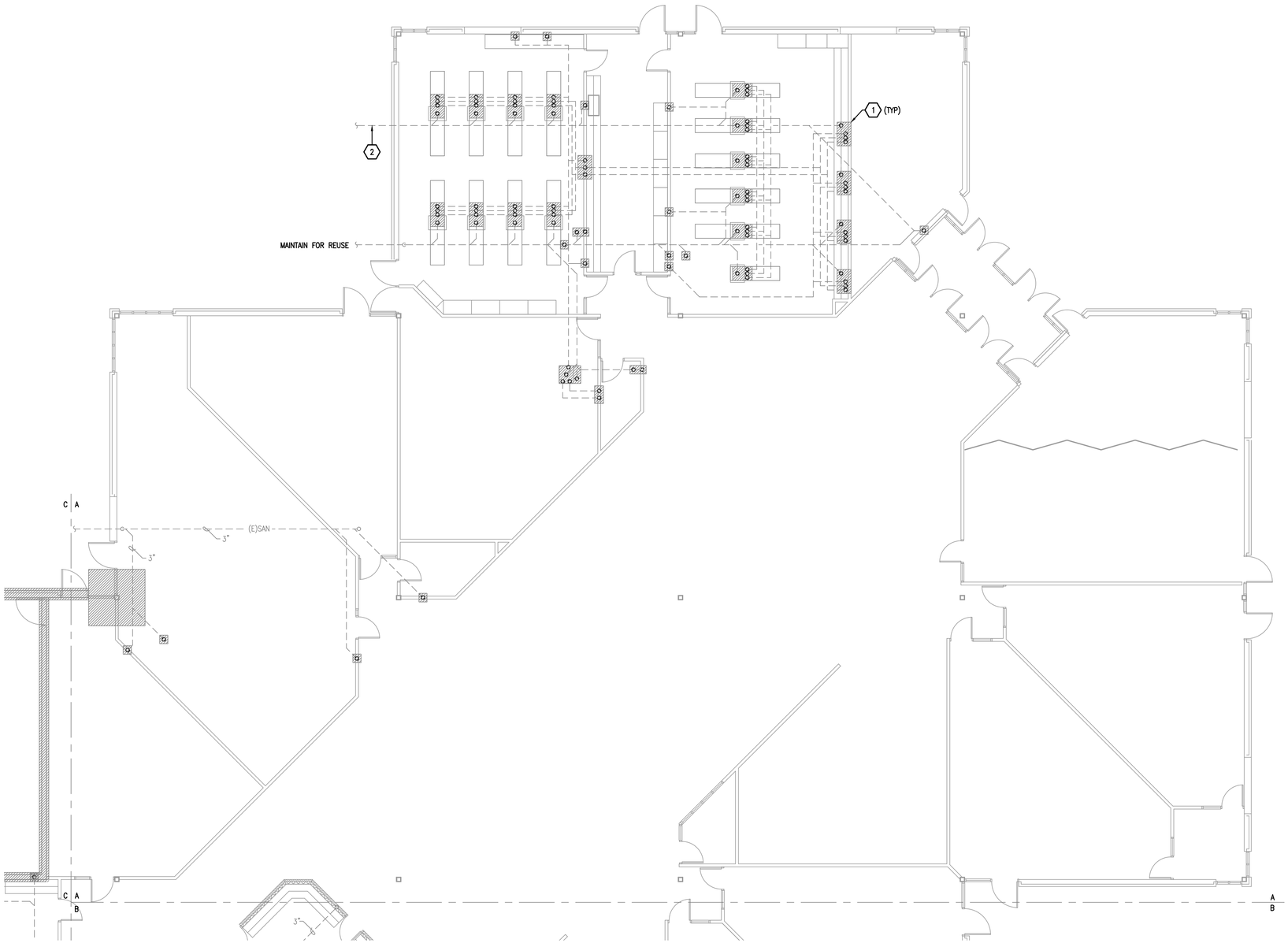
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

FIRE PROTECTION PLAN

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

FP2.0



PLUMBING DEMOLITION PLAN - AREA 'A' UNDERGROUND

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

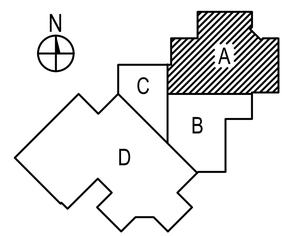
KEYNOTES

1. REMOVE PIPE PENETRATIONS THROUGH FLOOR (AS SHOWN IN HATCHED AREAS). SAW CUT FLOOR AND REMOVE PIPE TO A POINT BELOW FLOOR LEVEL AND ABANDON PIPE IN PLACE/CAP. COORDINATE FLOOR SLAB CUTTING WITH ARCHITECT. FIELD VERIFY FOR EXACT QUANTITY AND LOCATIONS OF FLOOR PIPE PENETRATIONS. (TYP)
2. CUT AND CAP ABANDONED SANITARY PIPING OUTSIDE OF BUILDING.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PLUMBING DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND INFORMATION PRESENTED BY OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS THAT WOULD AFFECT THE NEW WORK TO BE PERFORMED. NOTIFY THE ARCHITECT OF THESE CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
7. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
8. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
9. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
10. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

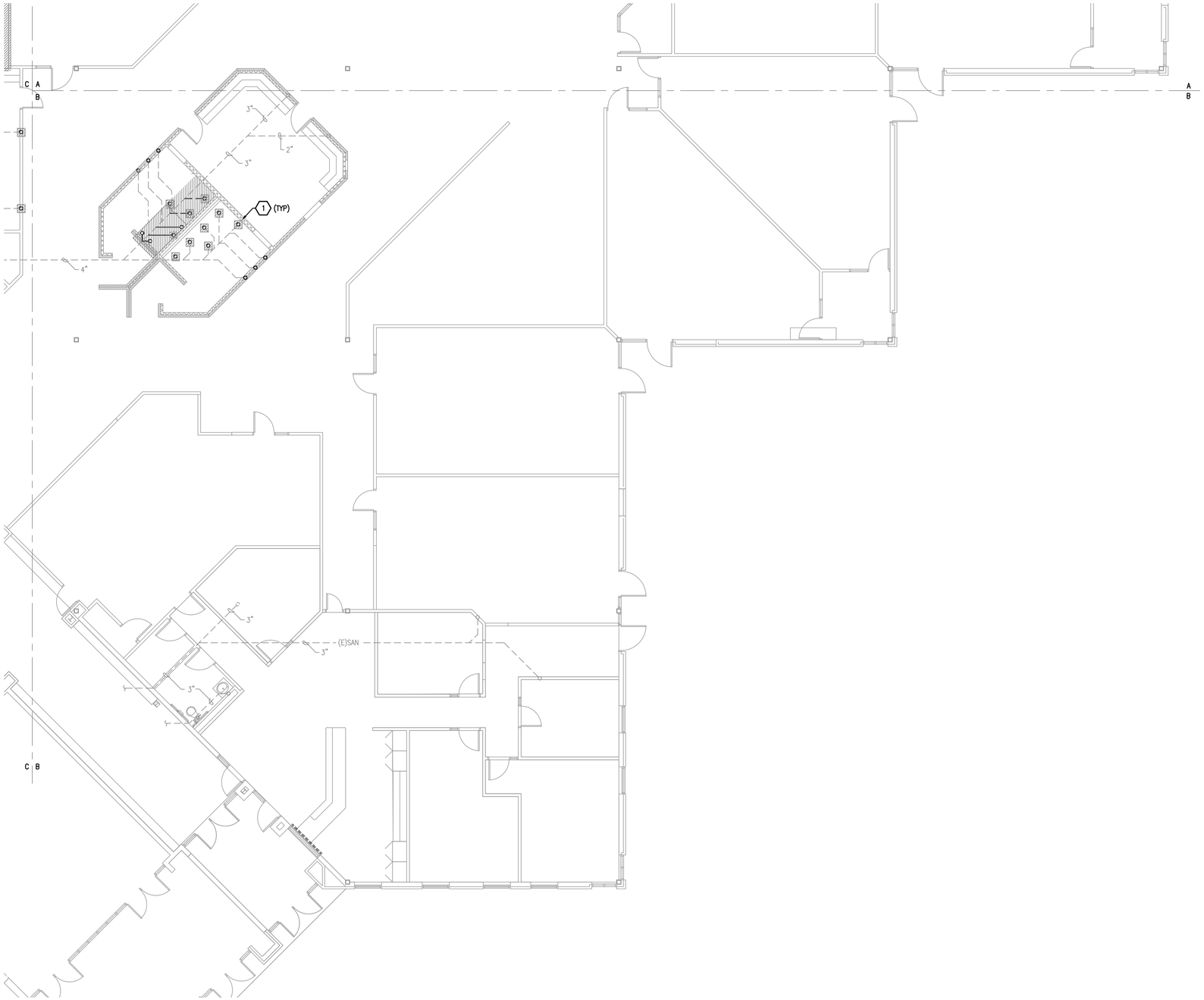
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
DEMOLITION PLAN
AREA 'A' UNDERGROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P1.0



PLUMBING DEMOLITION PLAN - AREA 'B' UNDERGROUND

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

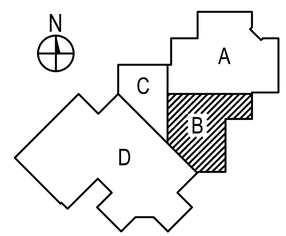
KEYNOTES

1. REMOVE PIPE PENETRATIONS THROUGH FLOOR (AS SHOWN IN HATCHED AREAS). SAW CUT FLOOR AND REMOVE PIPE TO A POINT BELOW FLOOR LEVEL AND ABANDON PIPE IN PLACE/CAP. COORDINATE FLOOR SLAB CUTTING WITH ARCHITECT. FIELD VERIFY FOR EXACT QUANTITY AND LOCATIONS OF FLOOR PIPE PENETRATIONS. (TYP)

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PLUMBING DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND INFORMATION PRESENTED BY OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS THAT WOULD AFFECT THE NEW WORK TO BE PERFORMED. NOTIFY THE ARCHITECT OF THESE CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
7. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
8. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
9. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
10. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

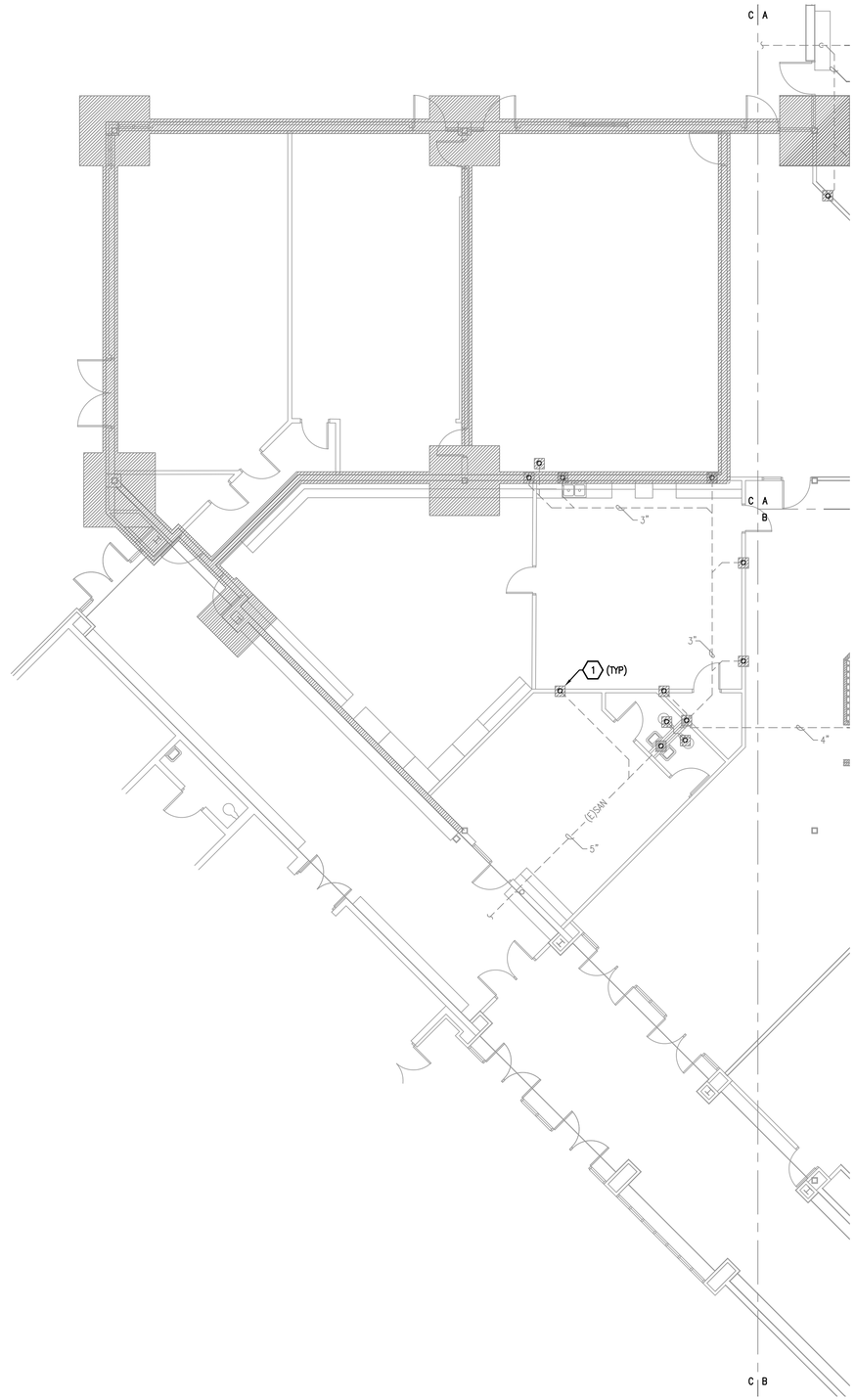
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
DEMOLITION PLAN
AREA 'B' UNDERGROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P1.1



PLUMBING DEMOLITION PLAN - AREA 'C' UNDERGROUND

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

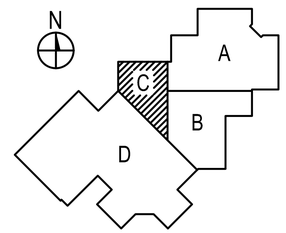
KEYNOTES

1. REMOVE PIPE PENETRATIONS THROUGH FLOOR (AS SHOWN IN HATCHED AREAS). SAW CUT FLOOR AND REMOVE PIPE TO A POINT BELOW FLOOR LEVEL AND ABANDON PIPE IN PLACE/CAP. COORDINATE FLOOR SLAB CUTTING WITH ARCHITECT. FIELD VERIFY FOR EXACT QUANTITY AND LOCATIONS OF FLOOR PIPE PENETRATIONS. (TYP)

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PLUMBING DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND INFORMATION PRESENTED BY OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS THAT WOULD AFFECT THE NEW WORK TO BE PERFORMED. NOTIFY THE ARCHITECT OF THESE CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
7. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
8. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
9. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
10. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

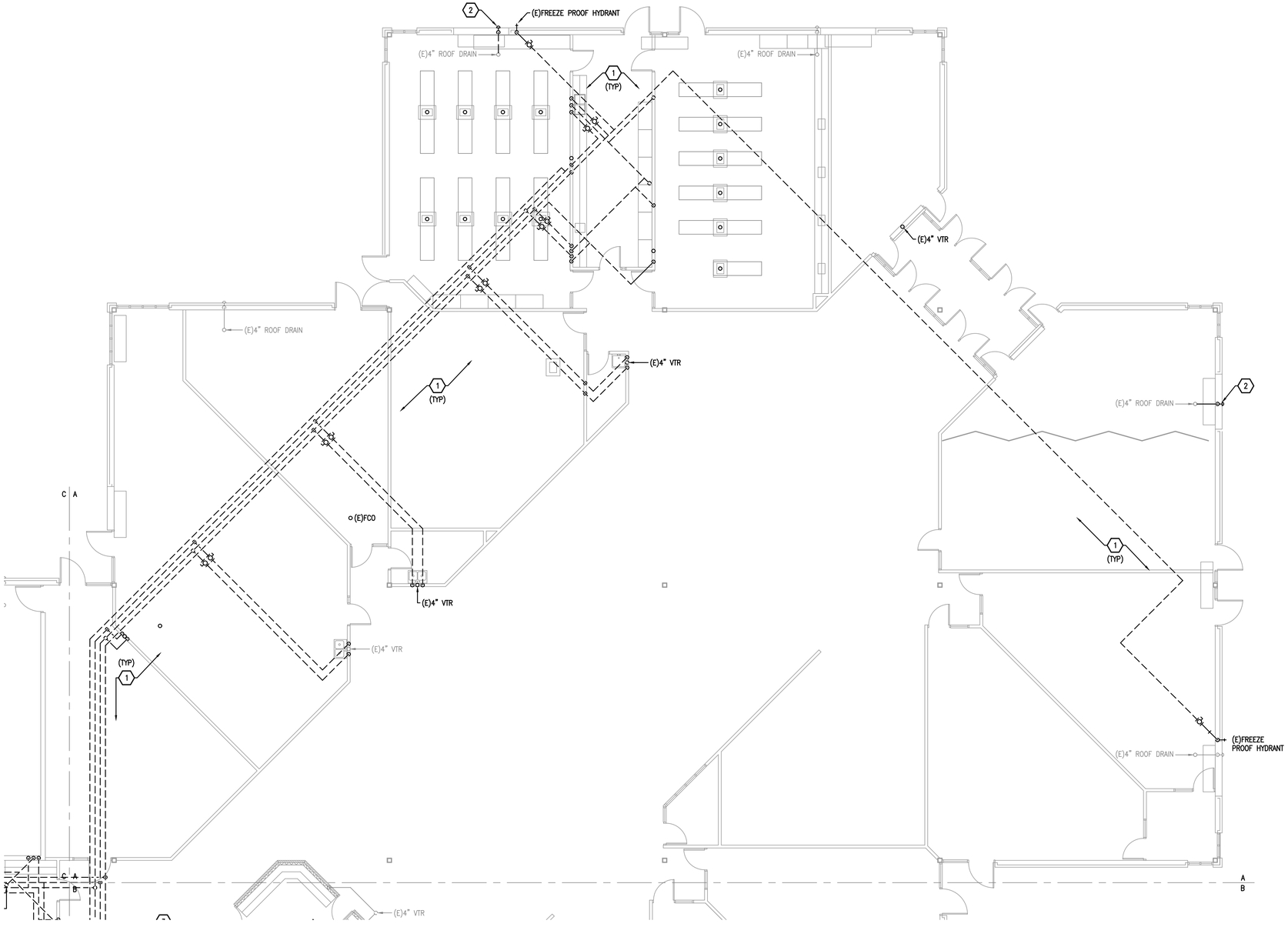
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
DEMOLITION PLAN
AREA 'C' UNDERGROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P1.2



PLUMBING DEMOLITION PLAN - AREA 'A' ABOVE GROUND

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

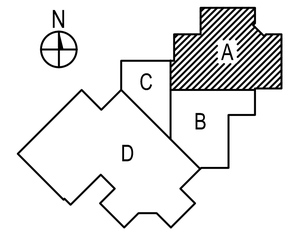
KEYNOTES

1. REMOVE ALL PIPING DENOTED IN BOLD. COORDINATE WITH UNDERGROUND DEMOLITION PLANS FOR PIPE PENETRATING FLOOR. REMOVE ALL PIPING WITHIN MILLWORK TO BE DEMOLISHED. REMOVE ALL PIPING WITHIN WALLS THAT ARE TO BE DEMOLISHED. VENTS THROUGH ROOF SHALL BE REMOVED AND ROOF PATCHED. COORDINATE WITH ARCHITECT FOR PATCHING OF WALLS/FLOORS TO REMAIN.
2. REMOVE STORM PIPING FROM THE POINT OF DISCHARGE BACK TO A POINT BELOW THE ROOF. MAINTAIN EXISTING ROOF DRAIN. PREPARE FOR NEW CONNECTION.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PLUMBING DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND INFORMATION PRESENTED BY OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS THAT WOULD AFFECT THE NEW WORK TO BE PERFORMED. NOTIFY THE ARCHITECT OF THESE CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
7. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
8. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
9. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
10. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4488
FAX: (906)228-7324

BIRMINGHAM OFFICE:
555 S. WOODWARD AVE. SUITE 600
BIRMINGHAM, MI 48815
PHONE: (810)229-2701
FAX: (810)229-4767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

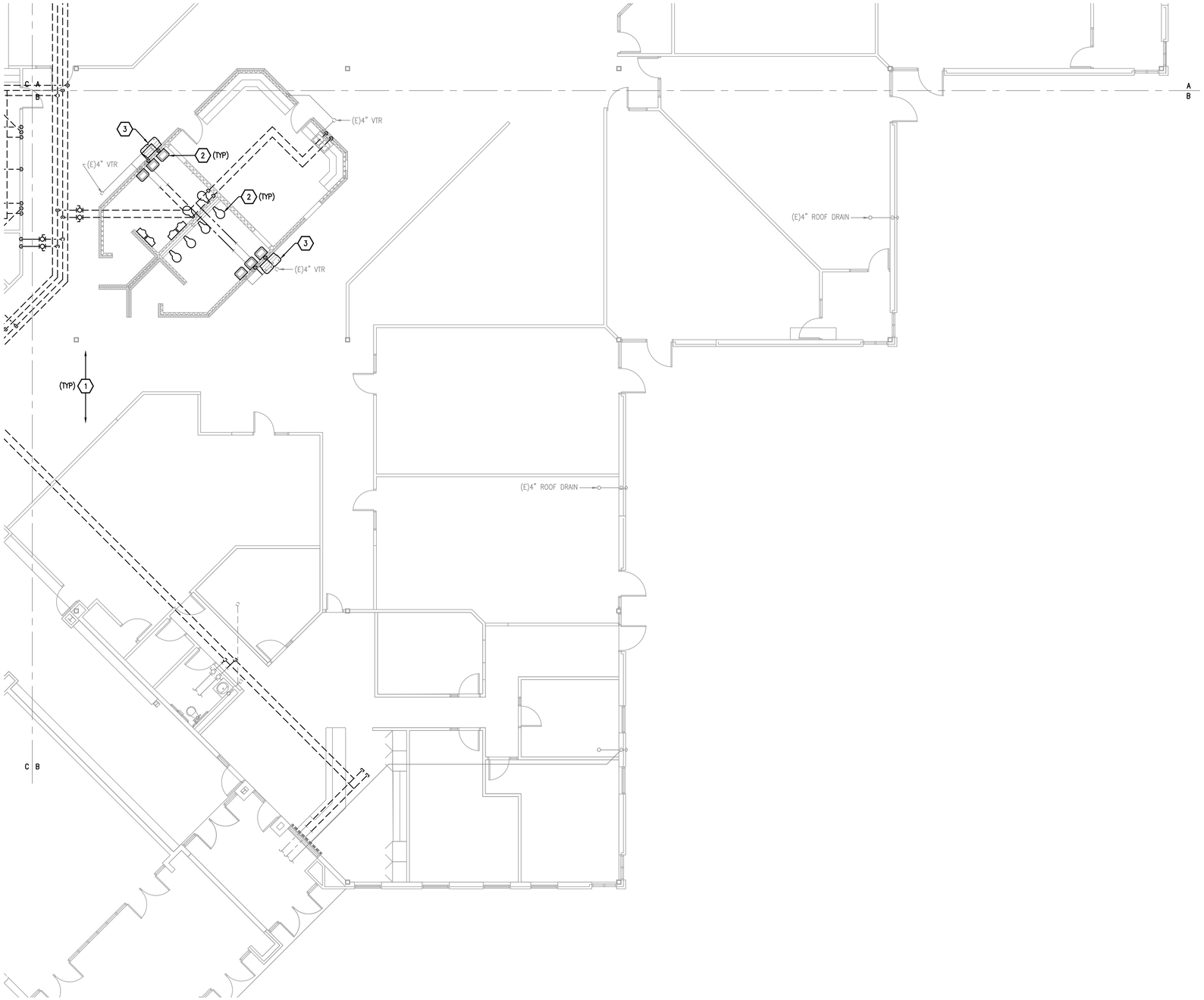
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY:
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
DEMOLITION PLAN
AREA 'A' ABOVE GROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P1.3



PLUMBING DEMOLITION PLAN - AREA 'B' ABOVE GROUND

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

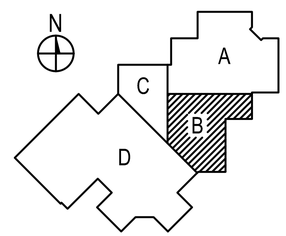
KEYNOTES

1. REMOVE ALL PIPING DENOTED IN BOLD. COORDINATE WITH UNDERGROUND DEMOLITION PLANS FOR PIPE PENETRATING FLOOR. REMOVE ALL PIPING WITHIN MILLWORK TO BE DEMOLISHED. REMOVE ALL PIPING WITHIN WALLS THAT ARE TO BE DEMOLISHED. VENTS THROUGH ROOF SHALL BE REMOVED AND ROOF PATCHED. COORDINATE WITH ARCHITECT FOR PATCHING OF WALLS/FLOORS TO REMAIN.
2. REMOVE ALL PLUMBING FIXTURES WITHIN RESTROOMS.
3. REMOVE WALL MOUNTED WATER COOLERS.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PLUMBING DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND INFORMATION PRESENTED BY OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS THAT WOULD AFFECT THE NEW WORK TO BE PERFORMED. NOTIFY THE ARCHITECT OF THESE CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
7. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
8. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
9. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
10. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

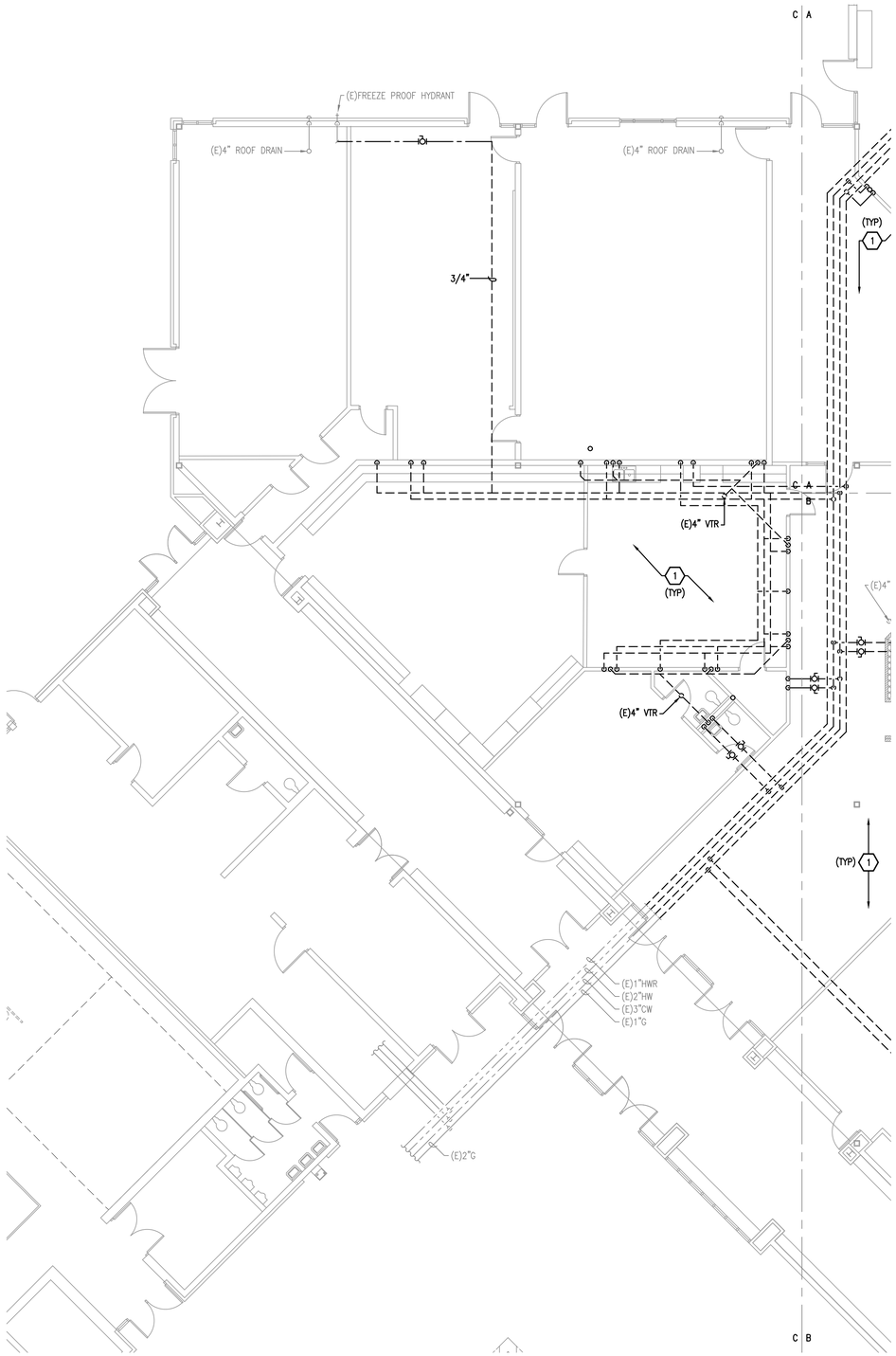
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
DEMOLITION PLAN
AREA 'B' ABOVE GROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P1.4



PLUMBING DEMOLITION PLAN - AREA 'C' ABOVE GROUND

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

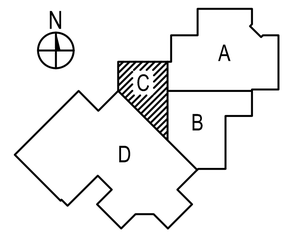
KEYNOTES

1. REMOVE ALL PIPING DENOTED IN BOLD. COORDINATE WITH UNDERGROUND DEMOLITION PLANS FOR PIPE PENETRATING FLOOR. REMOVE ALL PIPING WITHIN MILLWORK TO BE DEMOLISHED. REMOVE ALL PIPING WITHIN WALLS THAT ARE TO BE DEMOLISHED. VENTS THROUGH ROOF SHALL BE REMOVED AND ROOF PATCHED. COORDINATE WITH ARCHITECT FOR PATCHING OF WALLS/FLOORS TO REMAIN.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PLUMBING DEMOLITION WORK REQUIRED TO COMPLETE THE INSTALLATION OF NEW SYSTEMS SHALL BE PERFORMED AS PART OF THE PROJECT BASE BID.
2. INFORMATION SHOWN REFLECTS AVAILABLE EXISTING RECORDS, ON-SITE OBSERVATIONS, AND INFORMATION PRESENTED BY OWNER.
3. CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID AND VERIFY LOCATIONS OF EXISTING EQUIPMENT, PIPING, AND SYSTEM COMPONENTS TO FAMILIARIZE THEMSELVES WITH THE SCOPE OF WORK.
4. PRIOR TO DEMOLITION THE CONTRACTOR SHALL NOTE DIFFERENCES IN THE FIELD CONDITIONS AND WHAT IS SHOWN ON THE CONTRACT DOCUMENTS THAT WOULD AFFECT THE NEW WORK TO BE PERFORMED. NOTIFY THE ARCHITECT OF THESE CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. THE CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK NECESSARY TO PROPERLY COMPLETE THE NEW WORK SHOWN ELSEWHERE.
6. PATCH AND REPAIR ALL EXISTING SURFACES TO REMAIN THAT MAY BE DAMAGED BY THE PERFORMANCE OF THE DEMOLITION WORK.
7. PROTECT PIPING, DUCTWORK, CONDUIT, ETC. FROM ENTRANCE OF FOREIGN MATERIALS.
8. VERIFY AND PROTECT ANY EQUIPMENT, PIPING, COMPONENTS, CONTROLS TO REMAIN OR BE REUSED PRIOR TO DEMOLITION. ANY SUCH ITEMS THAT ARE DAMAGED DURING DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE CONTRACT.
9. OWNER SHALL HAVE THE FIRST RIGHT OF REFUSAL OF ANY EQUIPMENT NOTED TO BE REMOVED.
10. UNLESS OTHERWISE NOTED, ALL WORK DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL WORK DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

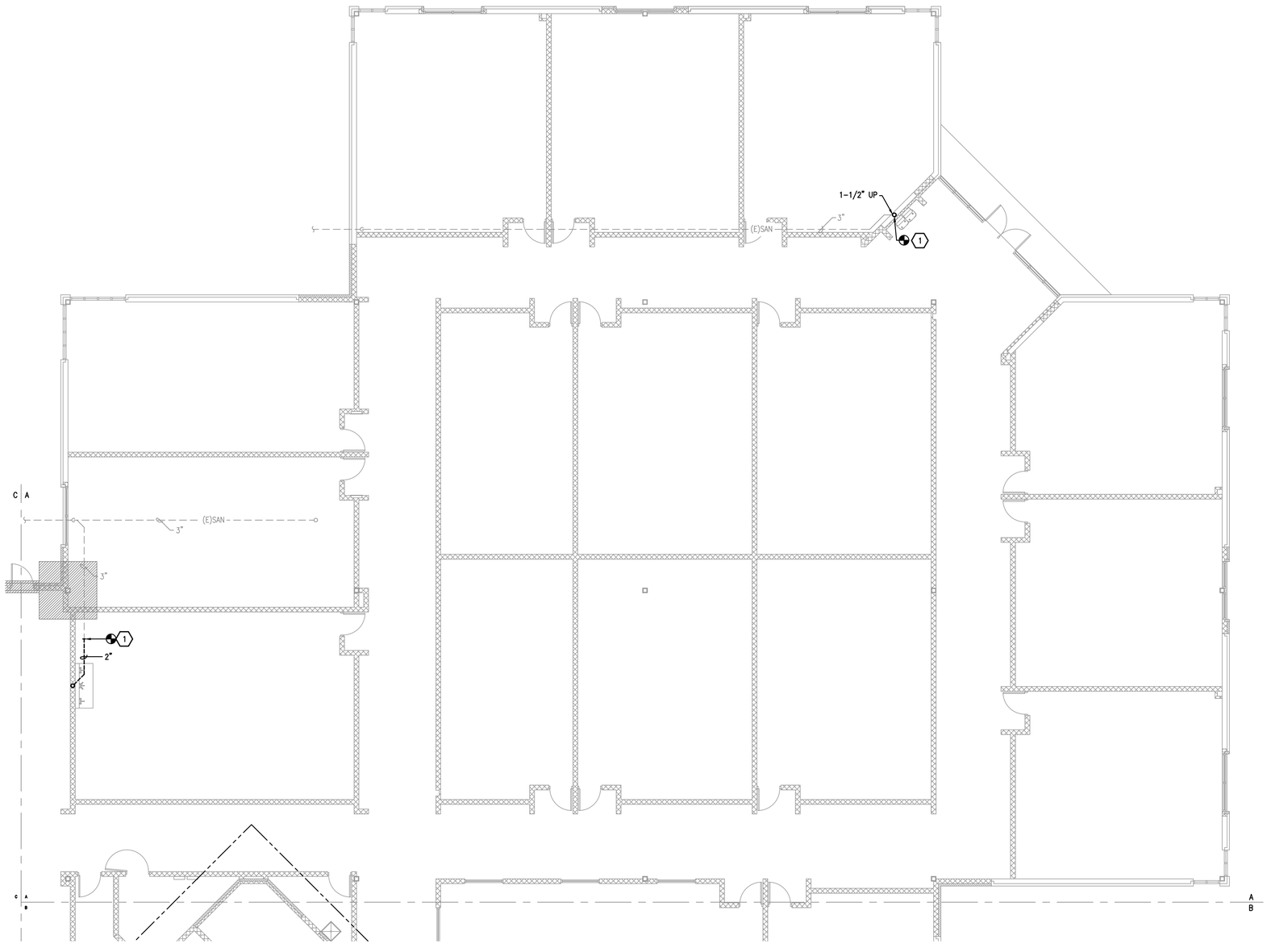
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
DEMOLITION PLAN
AREA 'C' ABOVE GROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P1.5



PLUMBING NEW WORK PLAN - AREA 'A' UNDERGROUND

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

KEYNOTES

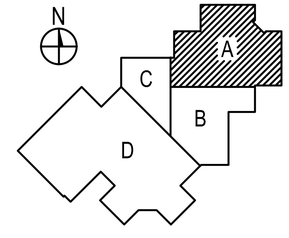
1. CONNECT TO EXISTING SANITARY DRAIN BELOW GRADE. EXPLORATORY SAW-CUTTING FOR EXACT TIE-IN LOCATION WILL BE REQUIRED.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT/PANEL CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. REFER TO ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS FOR EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE). REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES, ACCESSORIES, AND ADDITIONAL INFORMATION.
7. PLUMBING VENT PIPE THROUGH ROOF SHALL BE LOCATED A MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE AND A MINIMUM 18" CLEAR FROM AN INSIDE FACE OF A PARAPET.
8. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
9. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUTOFF VALVES PER PLUMBING CODE.
10. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS PER INTERNATIONAL PLUMBING CODE SECTION 1002.4.
11. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.

NEW BELOW GRADE PLUMBING SYSTEMS WILL BE INSTALLED BELOW AN EXISTING CONCRETE FLOOR SLAB. PLUMBING CONTRACTOR SHALL SAWCUT SLAB AS REQUIRED. HATCHED AREA REPRESENTS EXISTING FOOTINGS AND FOUNDATIONS AS SHOWN IN AS-BUILT DOCUMENTATIONS. PLUMBING CONTRACTOR SHALL COORDINATE NEW PIPE ROUTING AND DEPTH AND PROVIDE SLEEVES AS NECESSARY.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

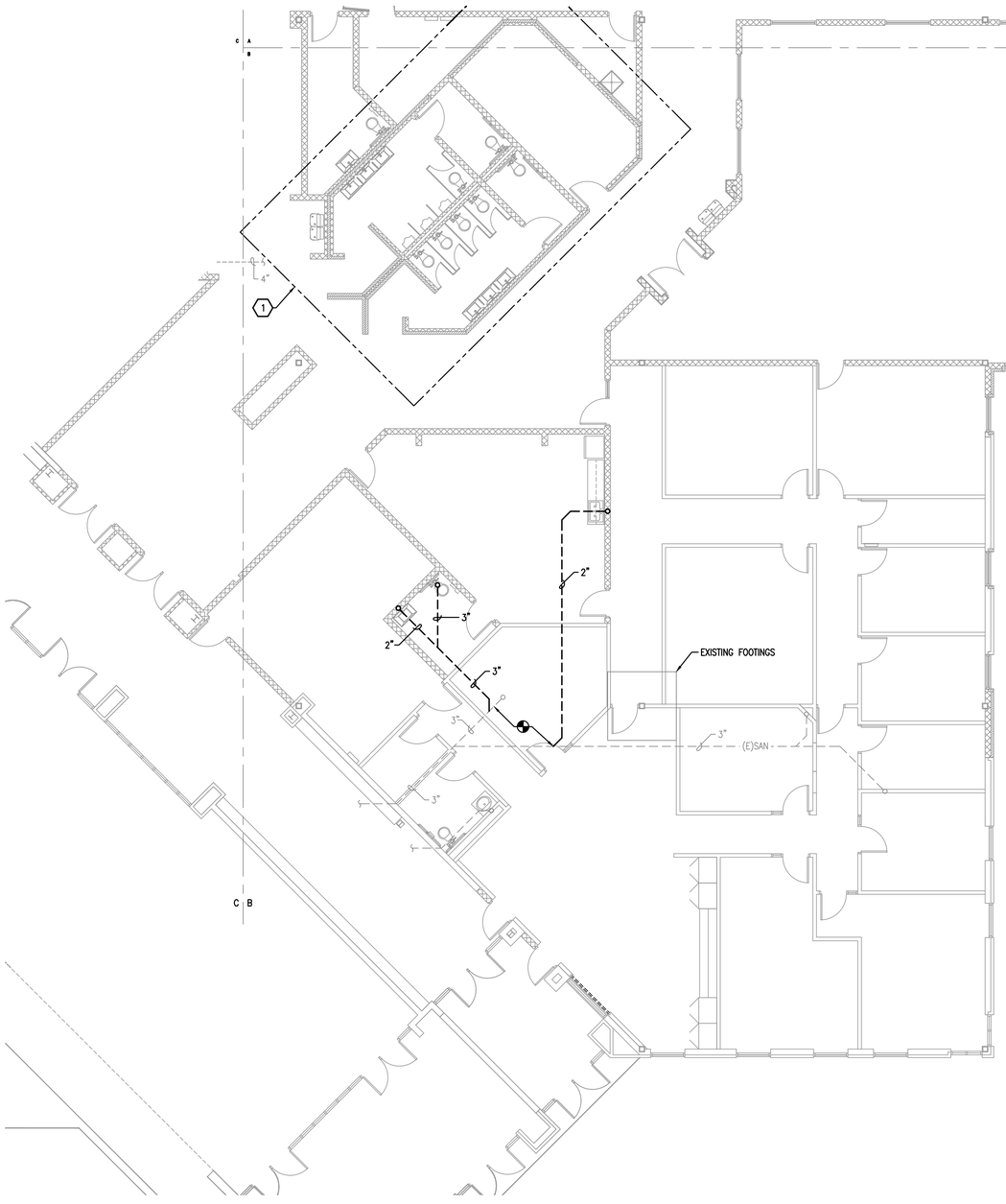
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
NEW WORK PLAN
AREA 'A' UNDERGROUND

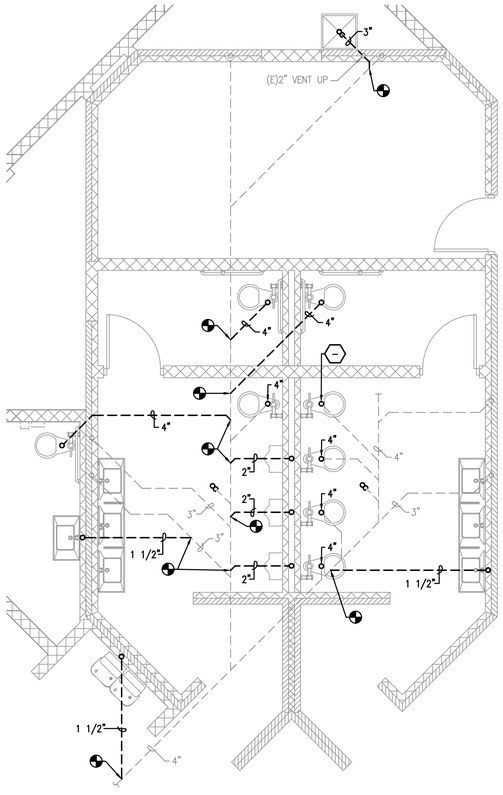
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P2.0



PLUMBING NEW WORK PLAN - AREA 'B' UNDERGROUND

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



ENLARGED RESTROOMS

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

KEYNOTES

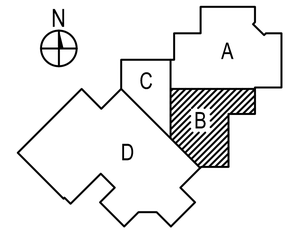
1. REFER TO ENLARGED PLAN THIS SHEET.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT/PANEL CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. REFER TO ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS FOR EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE). REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES, ACCESSORIES, AND ADDITIONAL INFORMATION.
7. PLUMBING VENT PIPE THROUGH ROOF SHALL BE LOCATED A MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE AND A MINIMUM 18" CLEAR FROM AN INSIDE FACE OF A PARAPET.
8. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
9. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUTOFF VALVES PER PLUMBING CODE.
10. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS PER INTERNATIONAL PLUMBING CODE SECTION 1002.4.
11. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.

NEW BELOW GRADE PLUMBING SYSTEMS WILL BE INSTALLED BELOW AN EXISTING CONCRETE FLOOR SLAB. PLUMBING CONTRACTOR SHALL SAWCUT SLAB AS REQUIRED. HATCHED AREA REPRESENTS EXISTING FOOTINGS AND FOUNDATIONS AS SHOWN IN AS-BUILT DOCUMENTATIONS. PLUMBING CONTRACTOR SHALL COORDINATE NEW PIPE ROUTING AND DEPTH AND PROVIDE SLEEVES AS NECESSARY.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

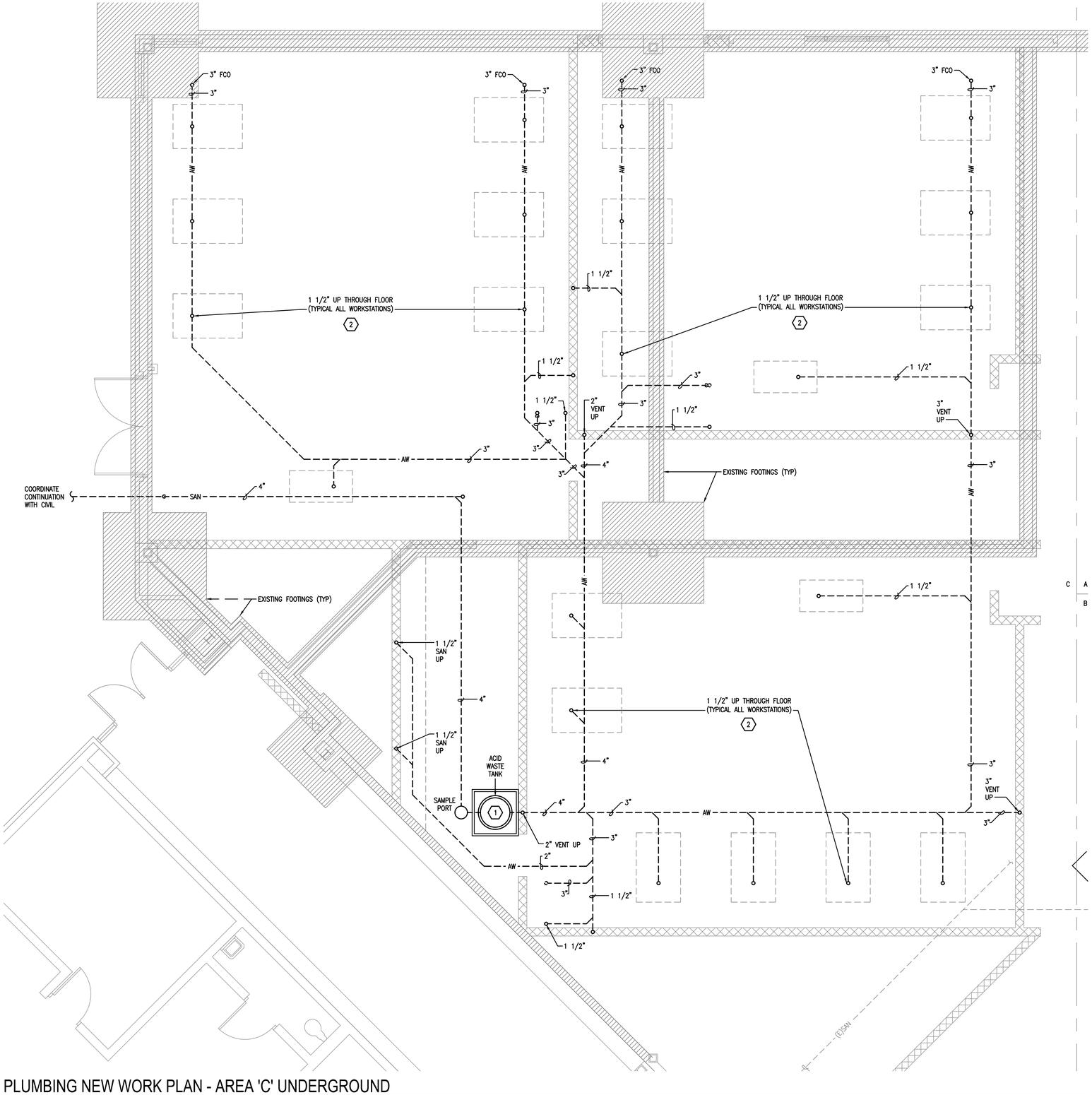
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
NEW WORK PLAN
AREA 'B' UNDERGROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P2.1



PLUMBING NEW WORK PLAN - AREA 'C' UNDERGROUND

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

KEYNOTES

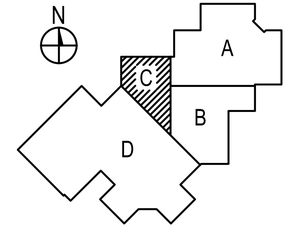
1. INSTALL ACID NEUTRALIZATION TANK WITHIN CONCRETE VAULT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. COORDINATE ALL PIPING PENETRATIONS UP INTO WORKSTATIONS WITH MILLWORK PROVIDER. (TYP.)

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT/PANEL CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. REFER TO ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS FOR EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE). REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES, ACCESSORIES, AND ADDITIONAL INFORMATION.
7. PLUMBING VENT PIPE THROUGH ROOF SHALL BE LOCATED A MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE AND A MINIMUM 18" CLEAR FROM AN INSIDE FACE OF A PARAPET.
8. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
9. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUTOFF VALVES PER PLUMBING CODE.
10. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS PER INTERNATIONAL PLUMBING CODE SECTION 1002.4.
11. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.

NEW BELOW GRADE PLUMBING SYSTEMS WILL BE INSTALLED BELOW AN EXISTING CONCRETE FLOOR SLAB. PLUMBING CONTRACTOR SHALL SAWCUT SLAB AS REQUIRED. HATCHED AREA REPRESENTS EXISTING FOOTINGS AND FOUNDATIONS AS SHOWN IN AS-BUILT DDOCUMENTATIONS. PLUMBING CONTRACTOR SHALL COORDINATE PIPE ROUTING AND DEPTH AND PROVIDE SLEEVES AS NECESSARY.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRGHTON OFFICE:
8411 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

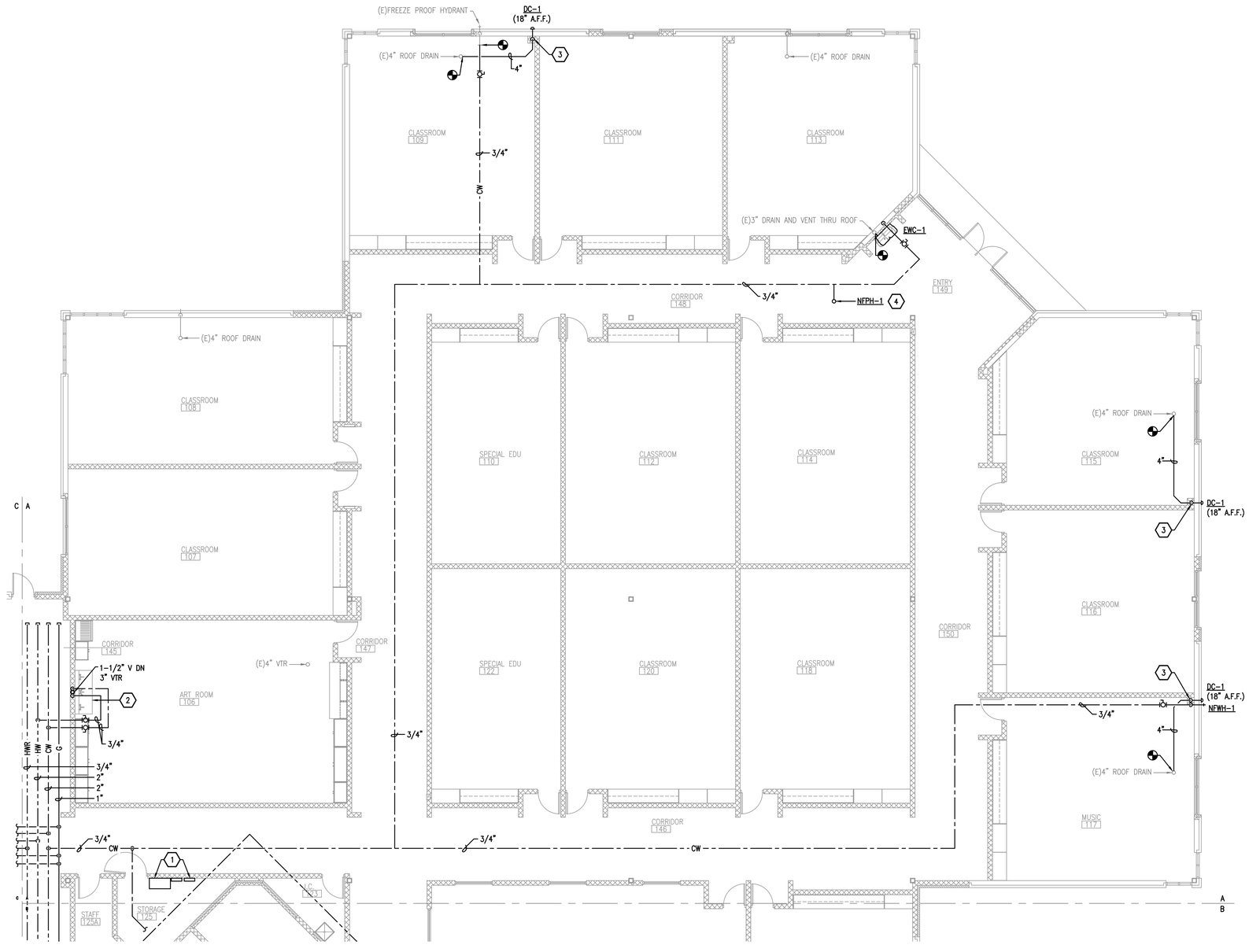
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
NEW WORK PLAN
AREA 'C' UNDERGROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P2.2



PLUMBING NEW WORK PLAN - AREA 'A' ABOVE GROUND

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

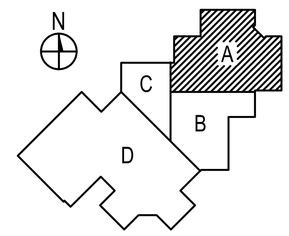
KEYNOTES

1. ELECTRICAL PANELS. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS.
2. SINK FURNISHED BY OTHER. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL CLAY TRAP IN MILLWORK IN PLACE OF SANITARY P-TRAP. PIPE 1/2" HW AND CW TO EACH FAUCET.
3. INSTALL PIPE DOWN WITHIN CMU CHASE.
4. 3/4" CW UP THROUGH ROOF TO FEED NON FREEZE POST HYDRANT.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT/PANEL CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. REFER TO ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS FOR EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE). REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES, ACCESSORIES, AND ADDITIONAL INFORMATION.
7. PLUMBING VENT PIPE THROUGH ROOF SHALL BE LOCATED A MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE AND A MINIMUM 18" CLEAR FROM AN INSIDE FACE OF A PARAPET.
8. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
9. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUTOFF VALVES PER PLUMBING CODE.
10. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS PER INTERNATIONAL PLUMBING CODE SECTION 1002.4.
11. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4484
FAX: (906)228-7324

BIRGHTON OFFICE:
8500 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

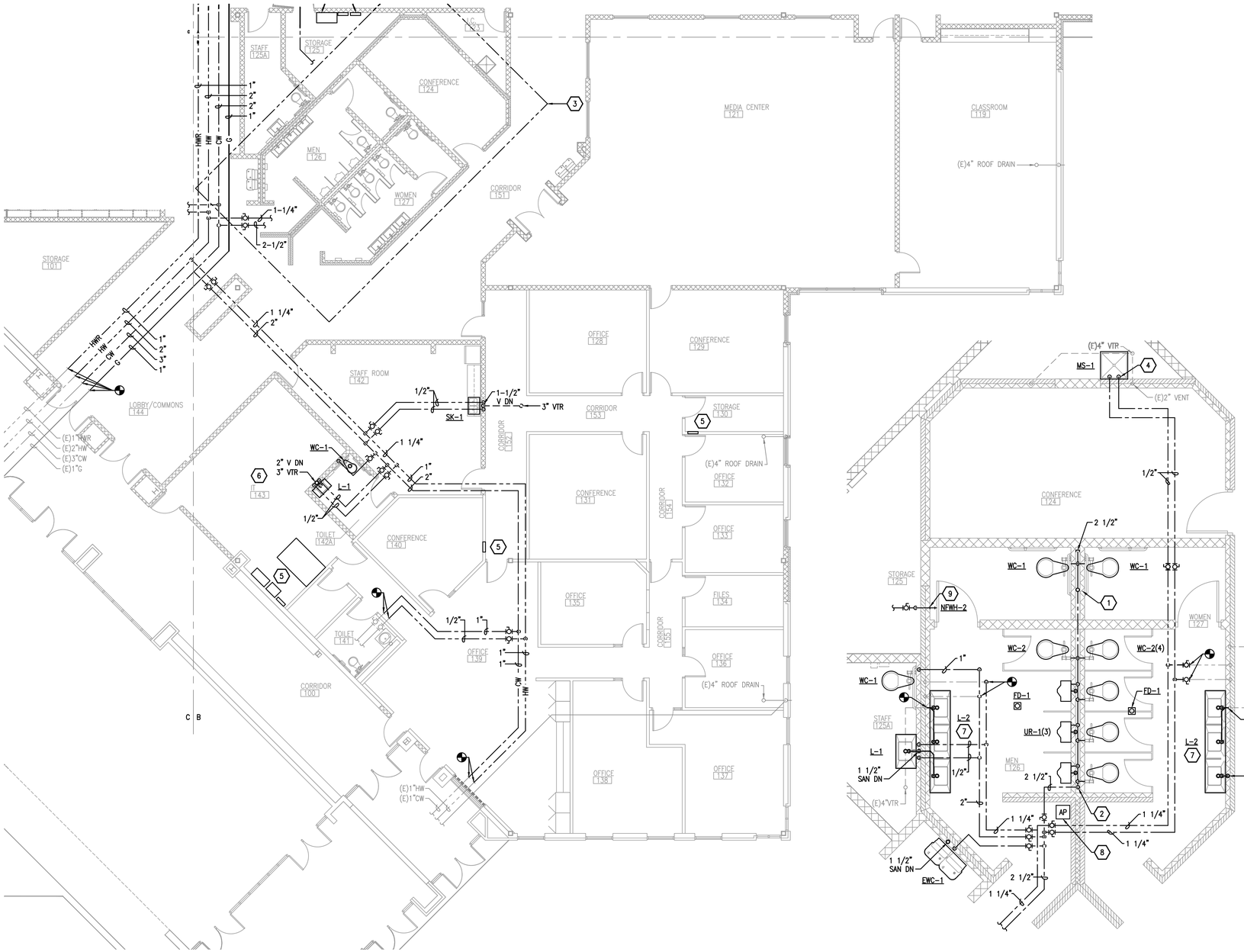
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
NEW WORK PLAN
AREA 'A' ABOVE GROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P2.3



PLUMBING NEW WORK PLAN - AREA 'B' ABOVE GROUND

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

ENLARGED RESTROOMS

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

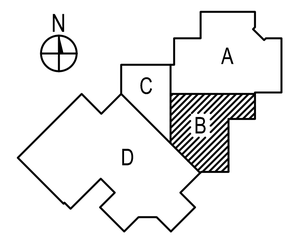
KEYNOTES

1. ASSE 1010 COMPLIANT WATER HAMMER ARRESTOR.
2. 2" CW DN TO SERVE PLUMBING FIXTURES.
3. REFER TO ENLARGED PLAN THIS SHEET.
4. INSTALL 1/2" CW AND 1/2" HW DOWN SURFACE OF WALL TO SERVE MOP SINK.
5. ELECTRICAL PANELS. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS.
6. DO NOT LOCATE ANY PLUMBING PIPE OVER IT/SERVER ROOM.
7. TIE INTO EXISTING 1/2" CW AND 1/2" HW LINES IN WALL AND FEED SEPARATE PIPE, SHUTOFF VALVES, AND MIXING VALVES TO EACH LAVATORY FAUCET.
8. FINAL QUANTITY AND LOCATION OF ACCESS PANELS BY PLUMBING CONTRACTOR AS NEEDED FOR FINAL PLUMBING LAYOUT.
9. INSTALL PIPING BELOW ROOF UP INTO MECHANICAL LOFT TO SERVE NON FREEZE WALL HYDRANT WITHIN LOFT.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT/PANEL CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. REFER TO ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS FOR EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE). REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES, ACCESSORIES, AND ADDITIONAL INFORMATION.
7. PLUMBING VENT PIPE THROUGH ROOF SHALL BE LOCATED A MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE AND A MINIMUM 18" CLEAR FROM AN INSIDE FACE OF A PARAPET.
8. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
9. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUTOFF VALVES PER PLUMBING CODE.
10. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS PER INTERNATIONAL PLUMBING CODE SECTION 1002.4.
11. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4484
FAX: (906)228-7324

BRIGHTON OFFICE:
7915 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

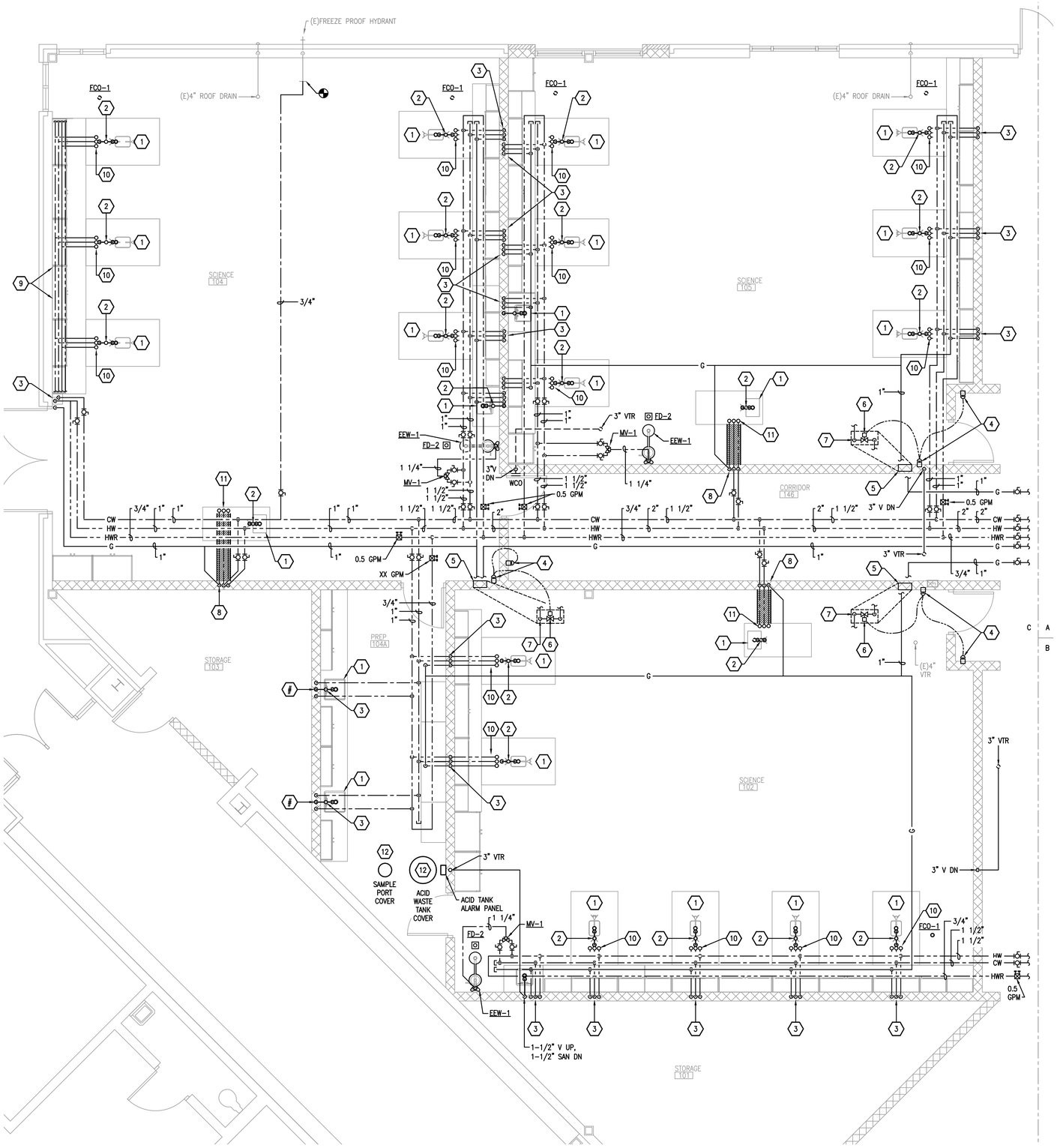
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
NEW WORK PLAN
AREA 'B' ABOVE GROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P2.4



PLUMBING NEW WORK PLAN - AREA 'C' ABOVE GROUND

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

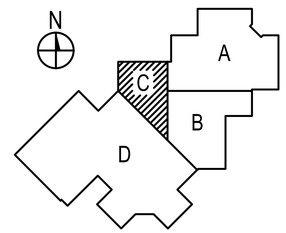
KEYNOTES

1. SINK BY MILLWORK MANUFACTURER. 1 1/2" SAN.
2. ASSE 1049 COMPLIANT AIR ADMITTANCE VALVE.
3. 1/2" CW, 1/2" HW, 1/2" HWR, AND 1/2" G DN INSIDE OF WALL.
4. EMERGENCY GAS SHUTOFF BUTTON.
5. RECESSED WALL BOX TO HOUSE EMERGENCY GAS SOLENOID VALVE. ACCESSIBLE FROM INSIDE CLASSROOM.
6. EMERGENCY GAS SHUTOFF SOLENOID VALVE.
7. 1" GAS PIPE UP TO SERVE CLASSROOM WORKSTATIONS.
8. 1/2" GAS, 1/2" CW, AND 1/2" HW DN WITHIN WALL TO SERVE TEACHER'S WORKSTATION. INSTALL HORIZONTALLY WITHIN TRENCH FORMED IN CONCRETE. INSTALL ALUMINUM ACCESS COVER OVER TRENCH, BALCO "TS SERIES" OR EQUIVALENT. COVER SHALL BE COMPLETELY FLUSH WITH FINISHED FLOOR.
9. 1/2" CW (INSULATED), 1/2" HW (INSULATED), HWR (INSULATED), AND 1/2" G WITHIN PIPE CHASE IN BACK OF MILLWORK. FIX TO WALL WITH UNISTRUT AND PIPE CLAMPS. INSTALL BRANCH PIPE AND SHUTOFF VALVES TO INDIVIDUAL WORKSTATIONS. COORDINATE WITH MILLWORK MANUFACTURER.
10. 1/2" CW, 1/2" HW, AND 1/2" G INSTALLED FROM WALL STUB-OUTS INTO MILLWORK. 1 1/2" SAN PIPING DOWN THROUGH FLOOR. COORDINATE EXACT PIPE ROUTING WITH MILLWORK PROVIDER.
11. 1/2" CW, 1/2" HW, AND 1/2" G INSTALLED UP FROM FLOOR TRENCH INTO TEACHER'S WORKSTATION. 1 1/2" SAN PIPING DOWN THROUGH FLOOR. COORDINATE EXACT PIPE ROUTING WITH MILLWORK PROVIDER.
12. ACID WASTE TANK AND SAMPLING PORT COVERS SHALL BE SMOOTH AND FLUSH WITH FLOOR FINISH.

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT/PANEL CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. REFER TO ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS FOR EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE). REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES, ACCESSORIES, AND ADDITIONAL INFORMATION.
7. PLUMBING VENT PIPE THROUGH ROOF SHALL BE LOCATED A MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE AND A MINIMUM 18" CLEAR FROM AN INSIDE FACE OF A PARAPET.
8. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
9. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS PER INTERNATIONAL PLUMBING CODE SECTION 1002.4.
10. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRMINGTON OFFICE:
251 E. MAPLE, 2ND FLOOR AVE., SUITE 600
BIRMINGTON, MI 48810
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

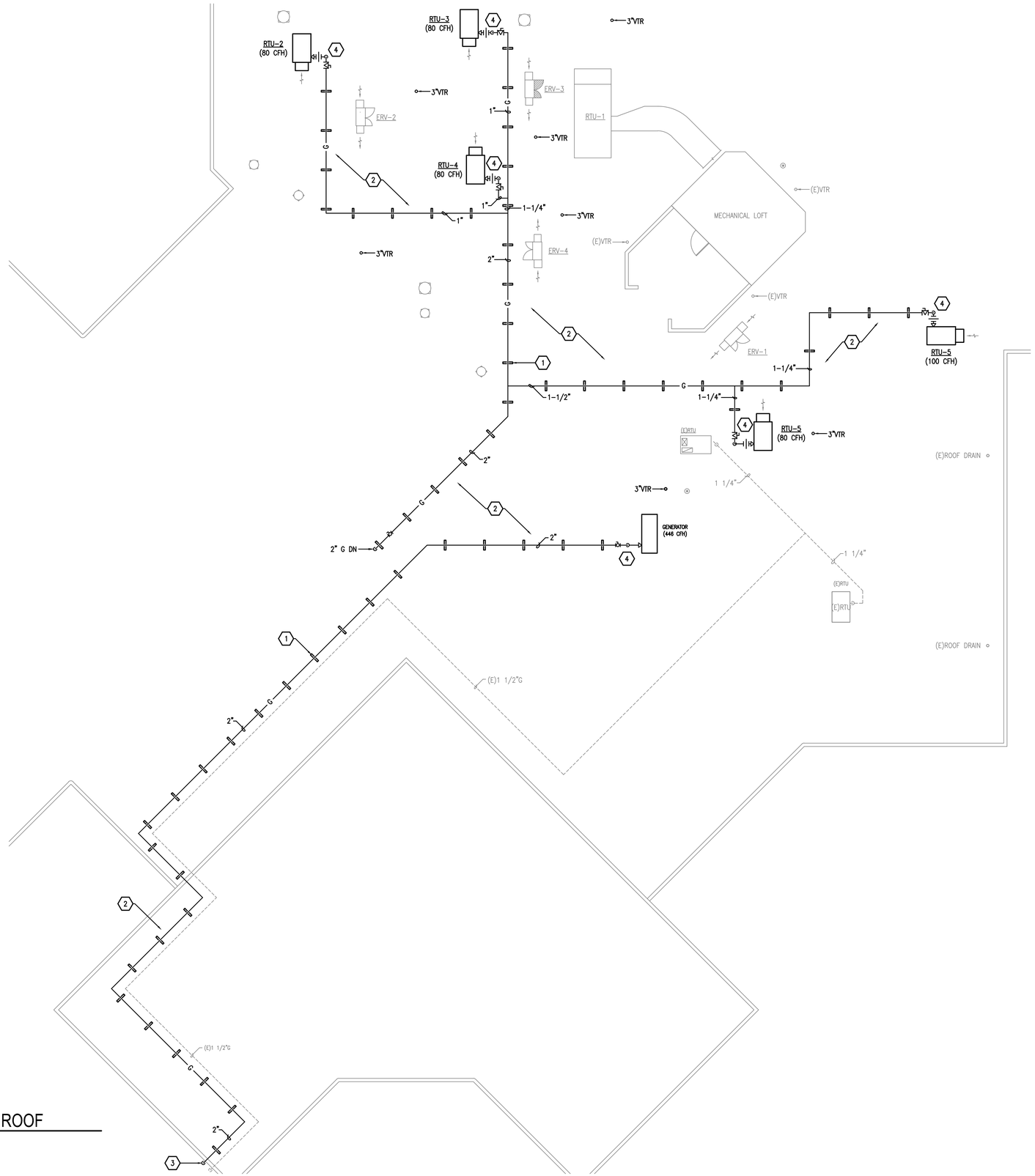
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

PLUMBING
NEW WORK PLAN
AREA 'C' ABOVE GROUND

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P2.5



PLUMBING NEW WORK PLAN - ROOF

SCALE: 3/32" = 1'-0"

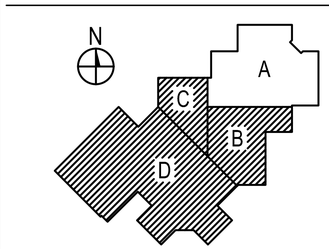
KEYNOTES

1. GAS PIPE SUPPORT (TYP).
2. PAINT ALL NEW GAS PIPE YELLOW. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. INSTALL DOWN EXTERIOR FACE OF WALL. TIE INTO EXISTING GAS MAIN. REFER TO DETAIL ON SHEET P3.0 FOR PIPING AND PRESSURE REVISIONS TO GAS MAIN.
4. REFER TO "ROOFTOP UNIT GAS PIPING CONNECTION DETAIL" ON SHEET P3.0 FOR ADDITIONAL INFORMATION (TYP)

GENERAL NOTES

1. THESE DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL EXTENT OF THE WORK. PROVIDE PLUMBING SYSTEMS COMPLETE AND PER APPLICABLE CODES.
2. CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PLUMBING AND PIPING WITH THE WORK OF ALL OTHER TRADES.
3. PIPING SHALL NOT BE LOCATED OVER ELECTRICAL EQUIPMENT/PANELS. PROVIDE REQUIRED CLEARANCE IN FRONT OF ELECTRICAL EQUIPMENT. PIPING SHALL NOT INTERFERE WITH ELECTRICAL EQUIPMENT/PANEL CLEARANCE.
4. THE CONTRACTOR SHALL PROVIDE SUPPLEMENTAL STEEL AS REQUIRED FOR THE PROPER SUPPORT OF ALL PLUMBING SYSTEMS.
5. PIPING SHALL NOT BE INSTALLED IN A LOCATION THAT RESTRICTS THE ACCESS TO MECHANICAL DEVICES REQUIRING ACCESS.
6. REFER TO ARCHITECTURAL PLANS, SECTIONS, AND ELEVATIONS FOR EXACT LOCATIONS OF FIXTURES (STANDARD AND BARRIER FREE). REFER TO PLUMBING FIXTURE SCHEDULE FOR CONNECTION SIZES, ACCESSORIES, AND ADDITIONAL INFORMATION.
7. PLUMBING VENT PIPE THROUGH ROOF SHALL BE LOCATED A MINIMUM 10'-0" FROM ANY FRESH AIR INTAKE AND A MINIMUM 18" CLEAR FROM AN INSIDE FACE OF A PARAPET.
8. PROVIDE ACCESS DOORS FOR CLEANOUTS OR VALVES LOCATED ABOVE HARD CEILINGS. COORDINATE WITH ARCHITECT. PROVIDE CODE REQUIRED CLEARANCE/ACCESS DOORS FOR ALL CLEANOUTS INSTALLED IN SANITARY WASTE AND VENT PIPING SYSTEMS.
9. PROVIDE VALVES ON ALL BRANCH PIPING SERVING GROUP TOILET ROOMS. PROVIDE FULL OPEN VALVES AND SHUTOFF VALVES PER PLUMBING CODE.
10. PROVIDE TRAP SEAL PROTECTION ON ALL FLOOR DRAINS PER INTERNATIONAL PLUMBING CODE SECTION 1002.4.
11. COORDINATE LOCATIONS AND SIZES OF ALL FLOOR, WALL, AND ROOF PENETRATIONS AND SLEEVES WITH STRUCTURAL AND ARCHITECTURAL TRADES.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

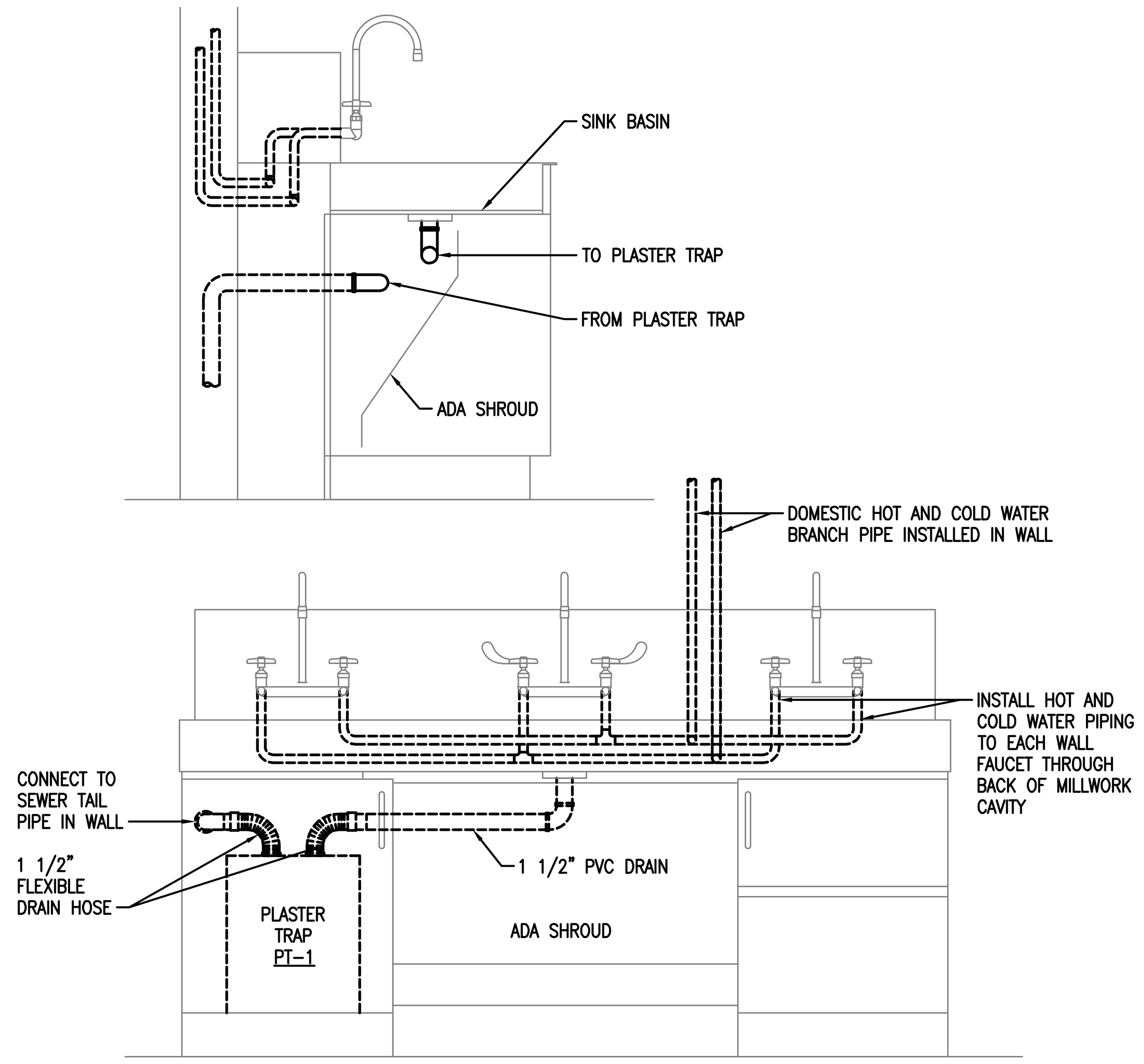
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DESIGN DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	CRP
DRAWN	CRP
CHECKED	SLB
APPROVED	SLB

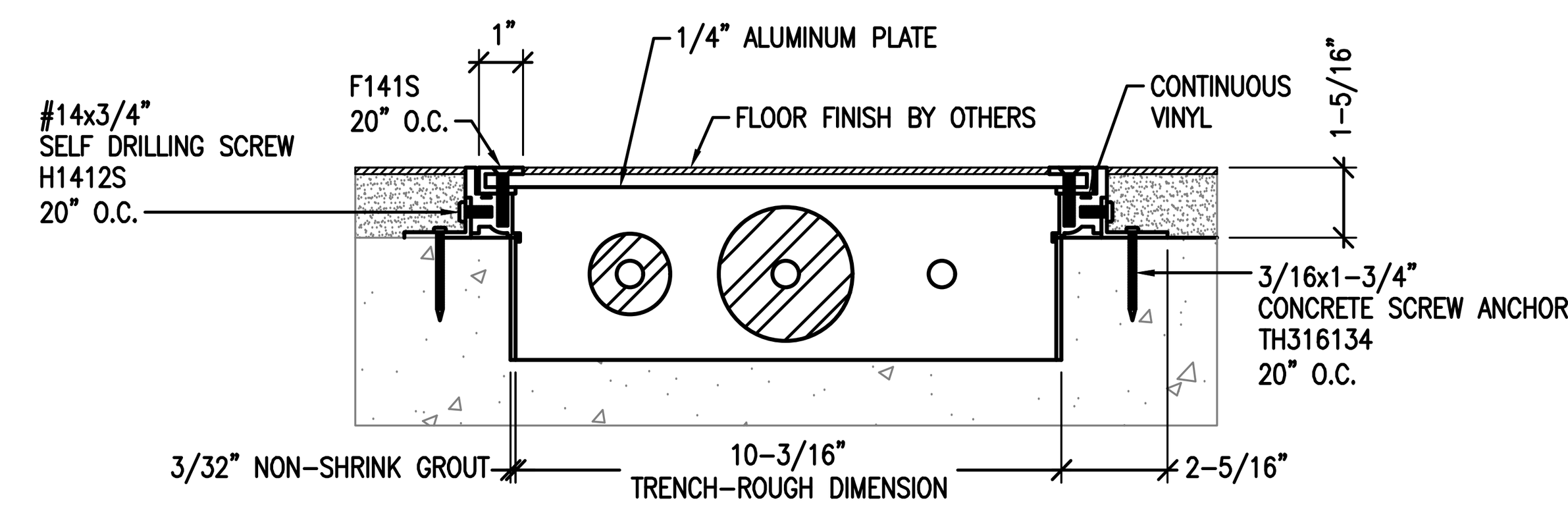
PLUMBING
NEW WORK PLAN
ROOF

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P2.6

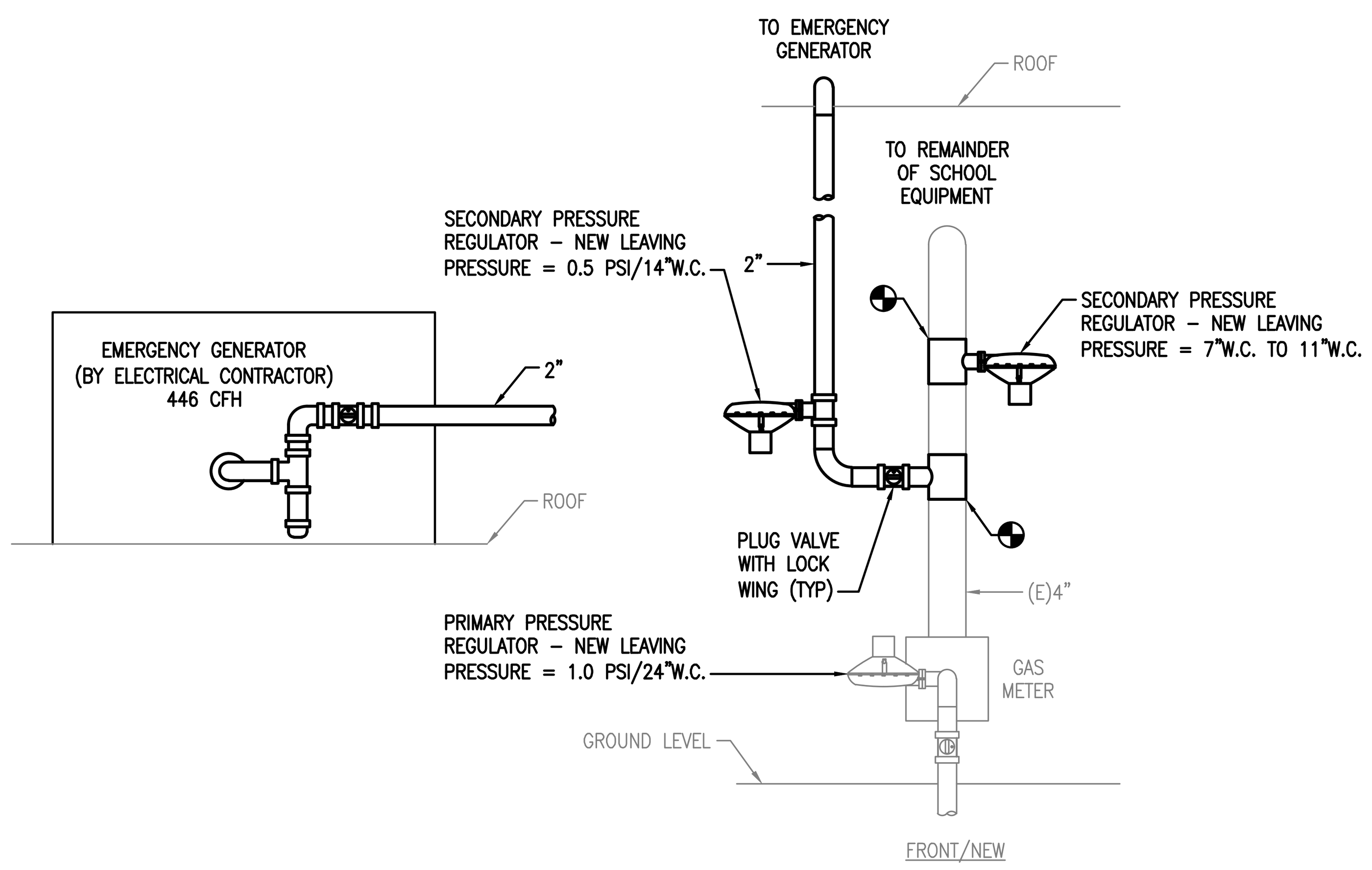


7 ART ROOM SINK PIPING DIAGRAM
N.T.S.

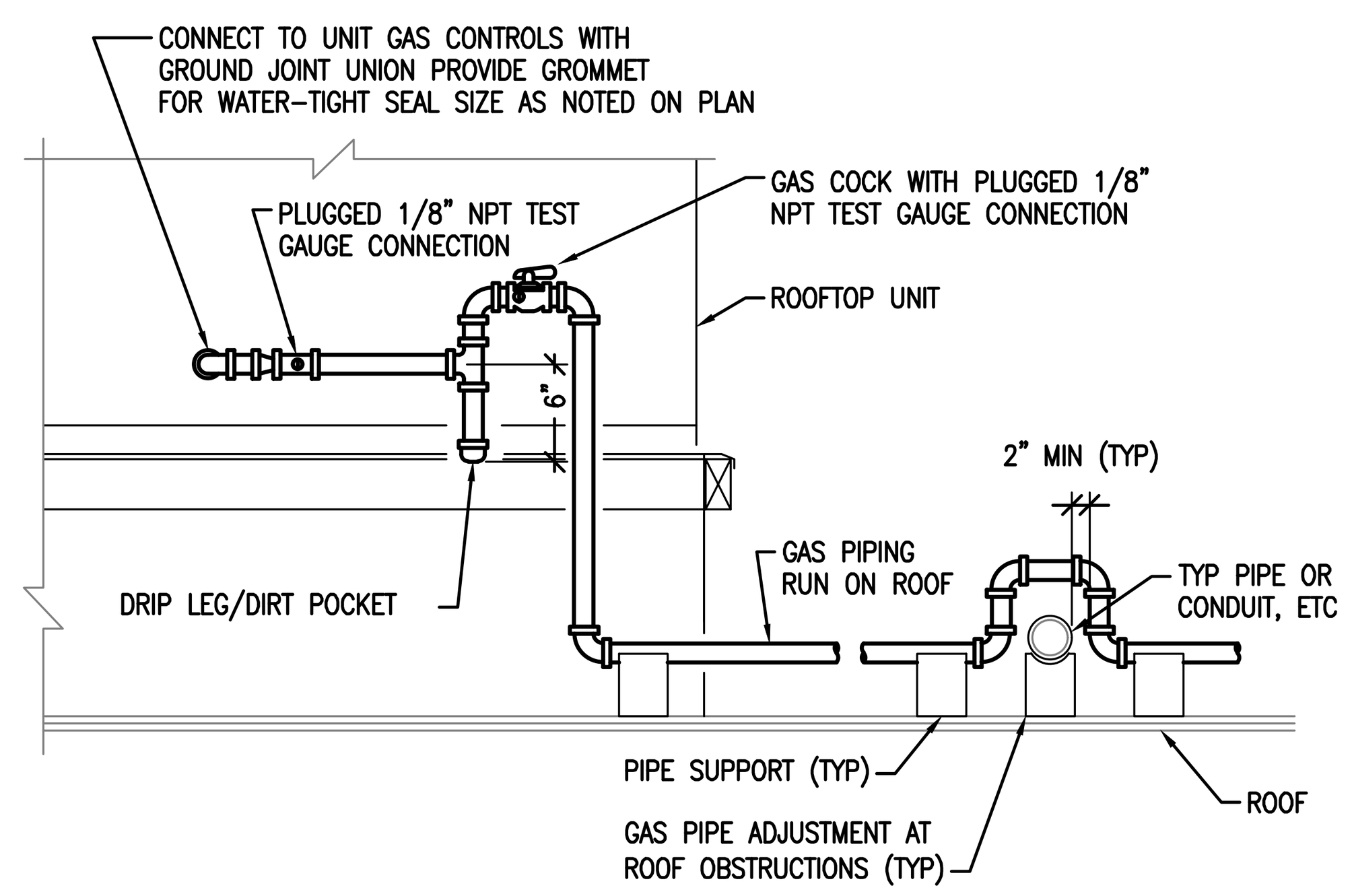


NOTES:
1. BASIS OF DESIGN IS BALCO "TST-10-250."
2. FRAME IS CAST-IN-PLACE.
3. FOLLOW MANUFACTURER'S SPECIFIC INSTRUCTIONS FOR ASSEMBLY, FORMING, CAULKING, POURING, FASTENING, ETC.

4 SUB-FLOOR UTILITY TRENCH COVER DETAIL
N.T.S. TYP.



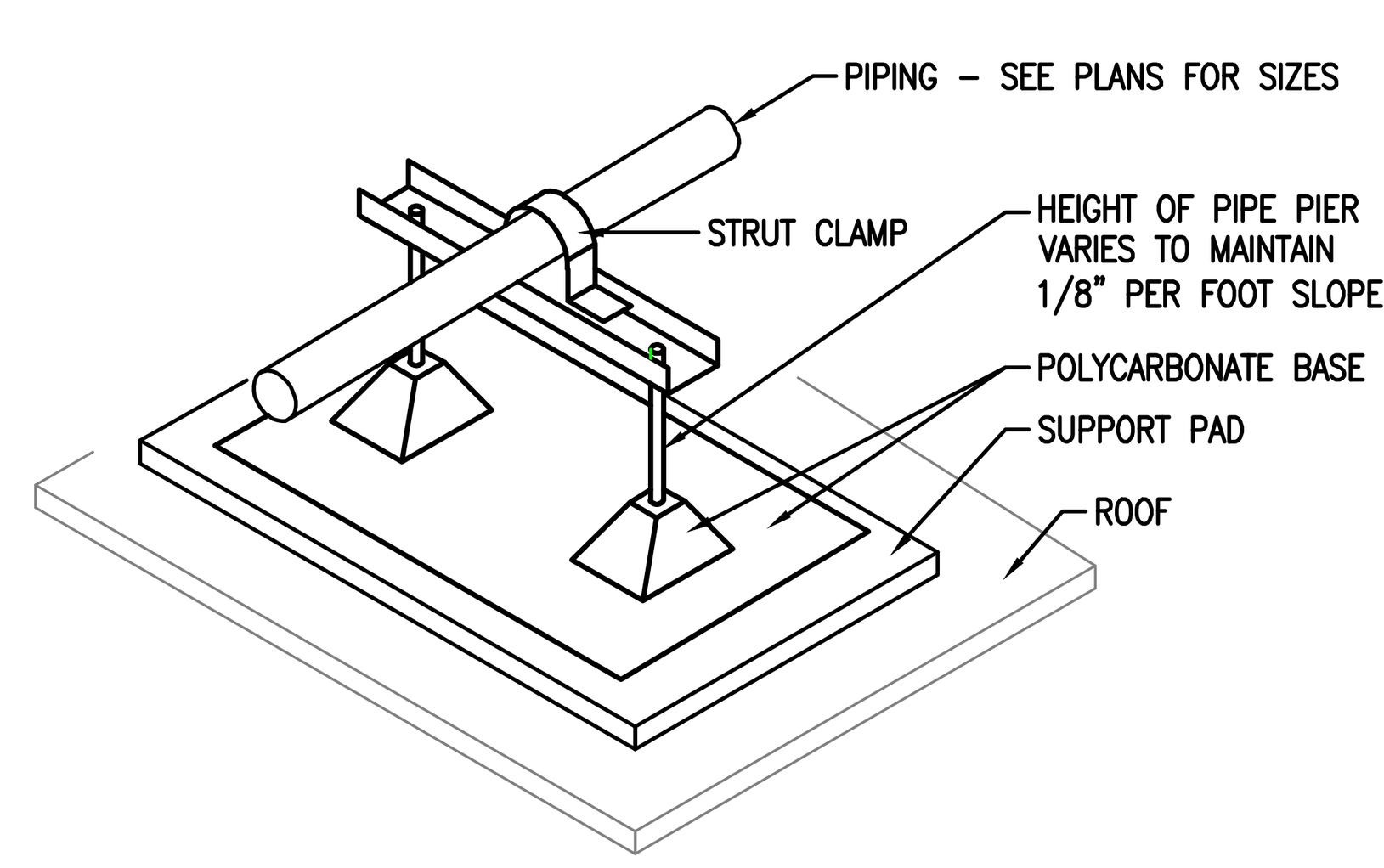
6 GAS MAIN, REGULATOR, AND EMERGENCY GENERATOR PIPING DIAGRAM
N.T.S.



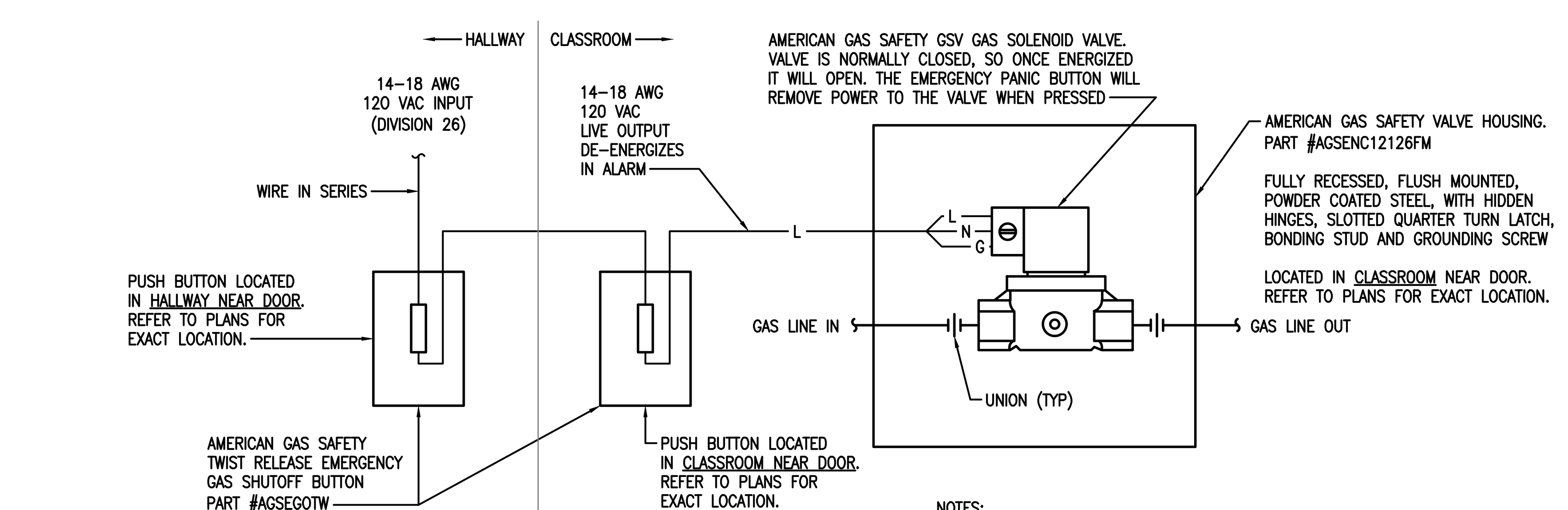
3 ROOFTOP UNIT GAS PIPING CONNECTION DETAIL
N.T.S. TYP.

SYM	DESCRIPTION	WASTE	VENT	CW	HW
DC-1	DOWNSPOUT COVER – ZURN #Z199, NICKEL BRONZE BODY, NO-HUB INLET, FACE OF WALL FLANGE, COW TONGUE	SEE PLANS	–	–	–
ES-1 MV-1	EMERGENCY SHOWER – GUARDIAN #GBF1909, BARRIER-FREE SAFETY STATION WITH WIDE AREA EYE/FACE WASH, PLASTIC SHOWER HEAD, 4 SPRAY HEADS WITH INDIVIDUAL FLIP-TOP DUST COVERS, INTERNAL FLOW CONTROL AND FILTERS, STAINLESS STEEL BOWL, GALVANIZED STEEL PIPING WITH ORANGE POLYETHYLENE PIPE COVERS, PULL ROD. PROVIDE WITH GUARDIAN #G6040 THERMOSTATIC MIXING VALVE	1 1/2"	–	1 1/4" TEPID	
EWC-1	ELECTRIC WATER COOLER – MURDOCK #A172.8-UG-BF12-BCD, WALL MOUNTED, BI-LEVEL WATER COOLER WITH SENSOR OPERATED BOTTLE FILLER, BOTTLE COUNTER DISPLAY, BARRIER FREE. FURNISH WITH WF3EZ FILTER FOR "FILTER FIRST" COMPLIANCE.	1 1/4"	–	1/2"	–
FCO-1	FLOOR CLEANOUT (SCIENCE AREAS) – IPEX "FLOWAY" ACID WASTE CLEANOUT WITH NICKEL BRONZE COVER. WITH 12" LONG STUB OF SCH 40 FRPP PIPE FOR HEIGHT ADJUSTMENT, FRPP CLEANOUT PLUG INSIDE OF COVER.	SEE PLANS	–	–	–
FCO (GENERAL)	FLOOR CLEANOUT (GENERAL APPLICATIONS) – ZURN "Z1400-BZ1" DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, WITH GAS AND WATER TIGHT THREADED ABS TAPERED PLUG, AND TOP ASSEMBLY. CONCRETE SHIELD FOR 1" VERTICAL POST POUR ADJUSTMENT, SHIMS FOR TILT CORRECTION, AND INTEGRATED, SELF-CONTAINED LIGHT DUTY SCORIATED COVER WITH ROUGH-IN COVER FOR PROTECTION DURING CONCRETE POUR.	SEE PLANS	–	–	–
FD-1	FLOOR DRAIN – ZURN #ZS415SS COATED CAST IRON BODY WITH BOTTOM NO HUB OUTLET, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS AND 5"x5" HELL-PROOF STAINLESS STEEL, MEDIUM-DUTY STRAINER. PROVIDE WITH SURESEAL OR EQUIVALENT WATERLESS INLINE TRAP SEAL.	SEE PLANS	–	–	–
FD-2	FLOOR DRAIN – IPEX "FLOWAY" FOR CORROSIVE WASTE. ADJUSTABLE POLYPROYLENE, 6"Ø STRAINER, NO HUB OUTLET. 14-1/2" Ø FLANGE AND NON-PUNCTURING STYLE FLASHING COLLAR WITH WEEP HOLES. PROVIDE WITH SURESEAL OR EQUIVALENT WATERLESS INLINE TRAP SEAL.	SEE PLANS	–	–	–
L-1	LAVATORY – SLOAN #SS-3006, WALL-MOUNTED VITREOUS CHINA WITH LEDGEBACK, REAR OVERFLOW, 3-HOLE WITH 4" CENTERSET, ADA COMPLIANT. FAUCET – SLOAN #SF-2350, BATTERY-POWERED, DECK-MOUNTED, MID INTEGRATED BASE BODY, 3-HOLE WITH 4" CENTERSET. ASSE 1070 COMPLIANT MIXING VALVE.	1 1/2"	1 1/2"	1/2"	1/2"
L-2	LAVATORY – SLOAN #ELC-83000, 3-STATION WALL-MOUNTED, NON-POROUS, SOLID-SURFACE MOLDED BASIN, COLOR BY ARCHITECT. FURNISH WITH: FAUCET (PER STATION): SLOAN #SF-2350, BATTERY-POWERED, DECK-MOUNTED, MID INTEGRATED BASE BODY, 3-HOLE WITH 4" CENTERSET. ASSE 1070 COMPLIANT MIXING VALVE. FULL LENGTH STAINLESS STEEL ADA COMPLIANT BELOW COUNTER ENCLOSURE.	1 1/2"	1 1/2"	1/2"	1/2"
MS-1	MOP SINK – FIAT, #TSB3000; TERRAZZO MOP BASIN, 24"x24"x12", 6" DROP FRONT, STAINLESS STEEL DRAIN BODY, 3"Ø. STAINLESS STEEL CAPS ON ALL CURBS, "MSG24" 24"x12" STAINLESS STEEL WALL GUARD. FAUCET – CHICAGO #835-RCF, WALL MOUNTED, TOP MOUNTED SUPPLIES WITH 6" FIXED CENTERS. RIGID SPOUT WITH VACUUM BREAKER, PAIL HOOK, AND WALL BRACE. 3" METAL CROSS HANDLES WITH BLUE AND RED INDEX BUTTONS. REBUILDABLE COMPRESSION CARTRIDGE, OPENS AND CLOSES 90°, CLOSES WITH WATER PRESSURE. 1/2" NPT FEMALE THREADED, 3/4" MALE HOSE THREAD OUTLET.	3"	1 1/2"	1/2"	1/2"
NFPH-1	NON-FREEZE POST HYDRANT – WOODFORD #S3, BACKFLOW PROTECTED, AUTOMATIC DRAINING, FREEZELESS HYDRANT WITH DIVERTER VALVE FOR HOSE OPERATION.	–	–	3/4"	–
NFWH-1	NON-FREEZE WALL HYDRANT – ZURN #Z1321XL-PB, LEAD-FREE, AUTOMATIC DRAINING WALL HYDRANT FOR FLUSH INSTALLATION. INTEGRAL BACKFLOW PREVENTER WITH ANTI-SIPHON, COPPER CASING, ALL-BRONZE INTERIOR COMPONENTS, 1/2 TURN LONG LIFE CERAMIC DISC CARTRIDGE, 3/4" MALE HOSE CONNECTION. HINGE COVER STAMPED "WATER" AND OPERATING KEY.	–	–	3/4"	–
NFWH-2	NON-FREEZE WALL HYDRANT – ZURN #Z1346, NON-FREEZE ANTI-SIPHON AUTOMATIC DRAINING WALL FAUCET	–	–	3/4"	–
PT-1	PLASTER TRAP – BUFFALO "TRAP-EZE", KIT WITH 2-GALLON DISPOSABLE TRANSLUCENT BUCKET FOR WASTE LEVEL MONITORING, INCLUDES HOSES AND REFILL BUCKET.	1 1/2"	–	–	–
SK-1	SINK – ELKAY "LRAD252255" DROP-IN, STAINLESS STEEL, OVERALL DIMS: 25"x22"x5-1/2", BOWL DIMS: 21"x15-3/4"x5-1/2". 3-HOLES ON 4" CENTERS. FAUCET – CHICAGO "786-GN8AFCABCP" DECK-MOUNTED RIGID/SWING GOOSENECK SPOUT WITH 1.5 GPM FLOW CONTROL, VANDAL PROOF 4" WRISTBLADE HANDLES, REBUILDABLE COMPRESSION CARTRIDGE. PROVIDE WITH ASSE 1070 COMPLIANT MIXING VALVE.	1 1/2"	1 1/2"	1/2"	1/2"
TS-1	TRAP SEAL – SURESEAL. IN-LINE FLOOR DRAIN TRAP SEAL, PREASSEMBLED, ABS PLASTIC HOUSING, NEOPRENE RUBBER DIAPHRAGM WITH 2" SOFT RUBBER GASKETS, ASSE 1072.	SEE PLANS	–	–	–
UR-1	URINAL – SLOAN #SU-1009, WALL-MOUNTED, VITREOUS CHINA, WASHDOWN, INTEGRAL FLUSHING RIM, ADA COMPLIANT. FLUSH VALVE – SLOAN #G2 8186, EXPOSED SENSOR OPERATED, 1.0 GPF, SEMI-RED BRASS COMPONENTS	2"	1 1/2"	–	3/4"
WC-1	WATER CLOSET – SLOAN #ST-2029, FLOOR-MOUNTED, ELONGATED, VITREOUS CHINA, SIPHON JET FLUSHING, ADA COMPLIANT (RIM HEIGHT 17"). FLUSH VALVE – SLOAN #G2 8111, EXPOSED SENSOR OPERATED, 1.6 GPF, SEMI-RED BRASS COMPONENTS	4"	2"	1"	–
WC-2	WATER CLOSET – SLOAN #ST-2009, FLOOR-MOUNTED, ELONGATED, VITREOUS CHINA, SIPHON JET FLUSHING, STANDARD HEIGHT (RIM HEIGHT 15"). FLUSH VALVE – SLOAN #G2 8111, EXPOSED SENSOR OPERATED, 1.6 GPF, SEMI-RED BRASS COMPONENTS	4"	2"	1"	–

Table title: PLUMBING FIXTURE SCHEDULE



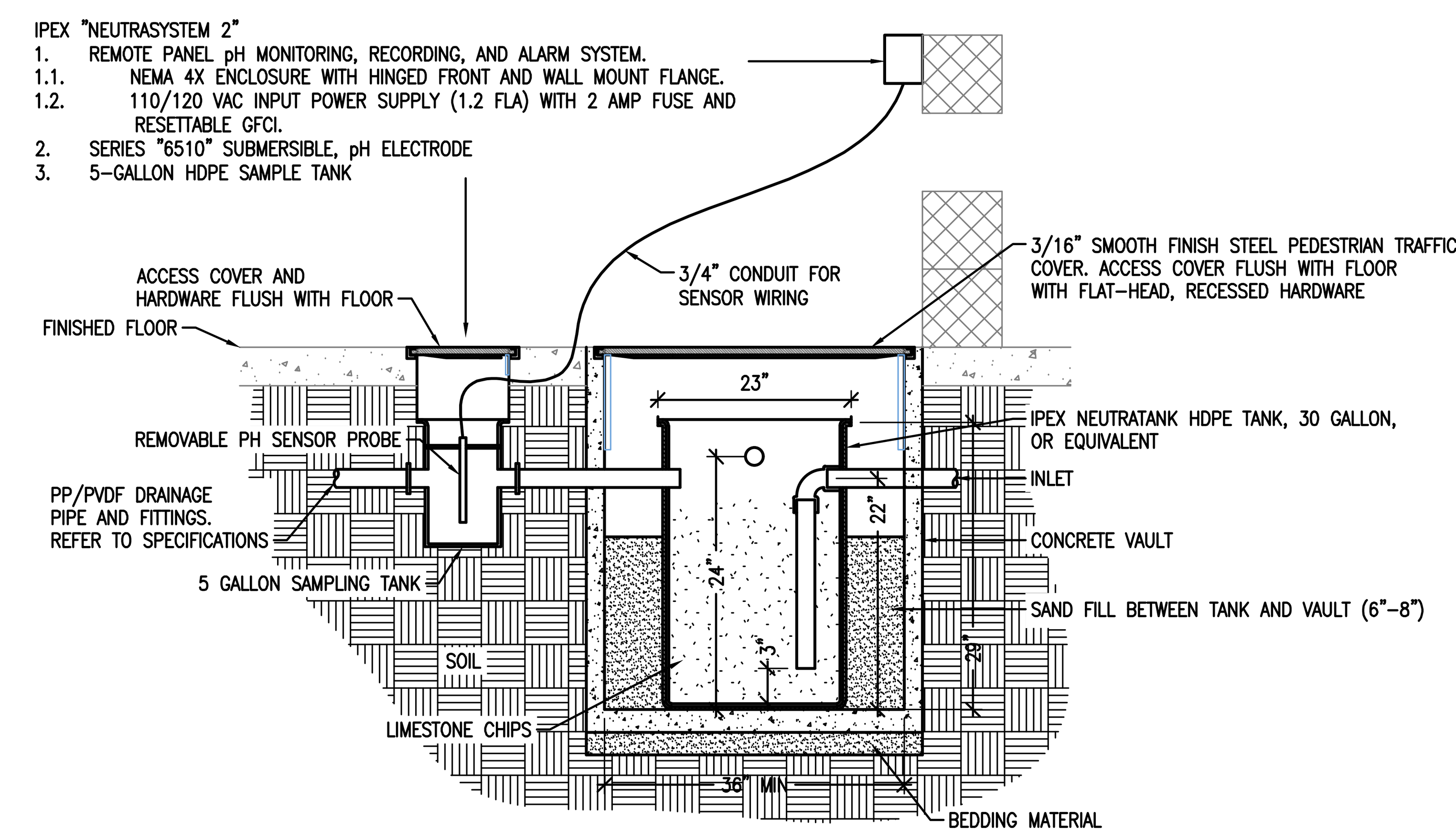
2 GAS PIPE SUPPORT ROOF DETAIL
N.T.S. TYP.



NOTES:
1. PUSH BUTTON SHALL:
   1.1. HAVE A CLEARLY IDENTIFIABLE YELLOW BOX COLOR WITH A RED BUTTON,
   1.2. HAVE TWIST RE-SET OPERATION,
   1.3. HAVE A CLEAR PROTECTIVE COVER TO PREVENT ACCIDENTAL ACTIVATIONS,
   1.4. BE ADA COMPLIANT,
   1.5. HAVE CLEAR TEXT WITH "EMERGENCY GAS SHUT OFF" IDENTIFIED ON THE FIXTURE.
2. ENCLOSURE SHALL BE SIZED TO CONTAIN SOLENOID VALVE, UNIONS, AND ANY ELBOWS/FITTINGS AS NECESSARY. TEST-FIT AND VERIFY ENCLOSURE SIZE PRIOR TO ORDER AND INSTALLATION. BASIS OF DESIGN ENCLOSURE IS 12"x12"x6".

5 EMERGENCY GAS SHUTOFF DETAIL
N.T.S. TYP.

IPEX "NEUTRASYSTEM 2"
1. REMOTE PANEL pH MONITORING, RECORDING, AND ALARM SYSTEM.
   1.1. NEMA 4X ENCLOSURE WITH HINGED FRONT AND WALL MOUNT FLANGE.
   1.2. 110/120 VAC INPUT POWER SUPPLY (1.2 FLA) WITH 2 AMP FUSE AND RESETTABLE GFCI.
2. SERIES "6510" SUBMERSIBLE, pH ELECTRODE
3. 5-GALLON HDPE SAMPLE TANK



NOTES:
1. TANK MUST BE PLACED ON A FLAT, SOLID SURFACE ALLOWING UNIFORM, FULL SUPPORT TO THE TANK BOTTOM.
2. FOR DIRECT BURIAL TANKS, TANK MUST BE WRAPPED IN FIBERGLASS.
3. TANK MUST BE FILLED WITH WATER PRIOR TO BACKFILLING. BACKFILL MATERIAL SHALL BE FREE OF STONES AND FOREIGN MATTER AND SHALL BE CAPABLE OF PASSING A NUMBER 10 SCREEN. THE DEPTH OF THE BACKFILL SHALL BE 6"-8" THICK AROUND THE TANK AND THEN NORMAL BACKFILL MATERIAL MAY BE USED. MECHANICAL TAMPING IS NOT RECOMMENDED.
4. FURNISH WITH ADJUSTABLE EXTENSION AS NEEDED BASED ON PIPE INVERTS.
5. FOLLOW SPECIFIC INSTRUCTIONS FROM MANUFACTURER FOR COMPLETE INSTALLATION.

1 ACID WASTE NEUTRALIZATION TANK INSTALLATION DETAIL
N.T.S.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING
INTEGRATED DESIGNS INC.

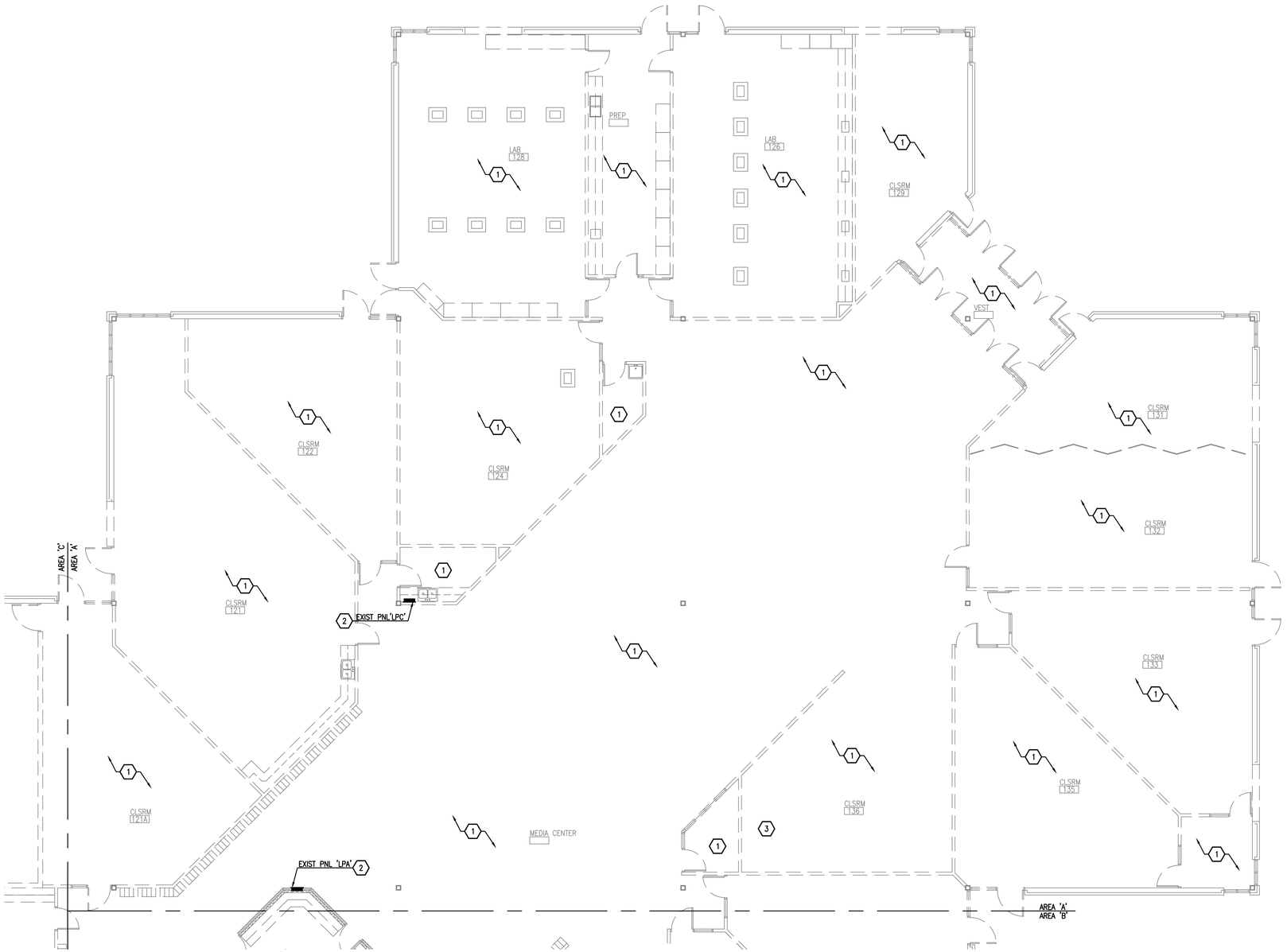
COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

	BY	NO.	REVISIONS	DATE
DESIGN	CRP	A	SCHEMATIC DESIGN	04.28.25
DRAWN	CRP	B	DESIGN DEVELOPMENT	07.24.25
CHECKED	SLB	0	FOR CONSTRUCTION	11.05.25
APPROVED	SLB			

PLUMBING
DETAILS & SCHEDULES

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

P3.0



ELECTRICAL DEMOLITION PLAN - AREA 'A'

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

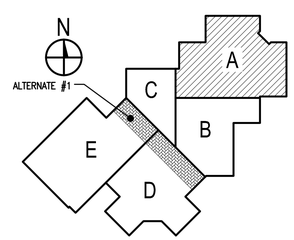
KEYNOTES

1. REMOVE EXISTING RECEPTACLES, DATA OUTLETS, LIGHTING FIXTURES AND CONTROL DEVICES, CALL BUTTONS, FIRE ALARM DEVICES, IN THIS ROOM/AREA. EXISTING WIRELESS ACCESS POINTS, P.A. SPEAKERS, SMARTBOOT TECH DEVICES, PROJECTORS AND ASSOCIATED SPEAKERS, AND SECURITY CAMERAS TO BE REMOVED BY OWNER. REMOVE ASSOCIATED BRANCH CIRCUITRY, CONDUIT, CABLING, WIRING, ETC. BACK TO SOURCE.
2. REMOVE EXISTING PANEL COMPLETE. REMOVE EXISTING FEEDER, CONDUIT, ETC. BACK TO SOURCE. EXISTING BRANCH CIRCUITRY NOT BEING REMOVED TO BE EXTENDED AS REQUIRED TO NEAREST NEW PANEL.
3. REMOVE EXISTING DATA/COMMUNICATION TERMINATION EQUIPMENT AND TURN OVER TO OWNER.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

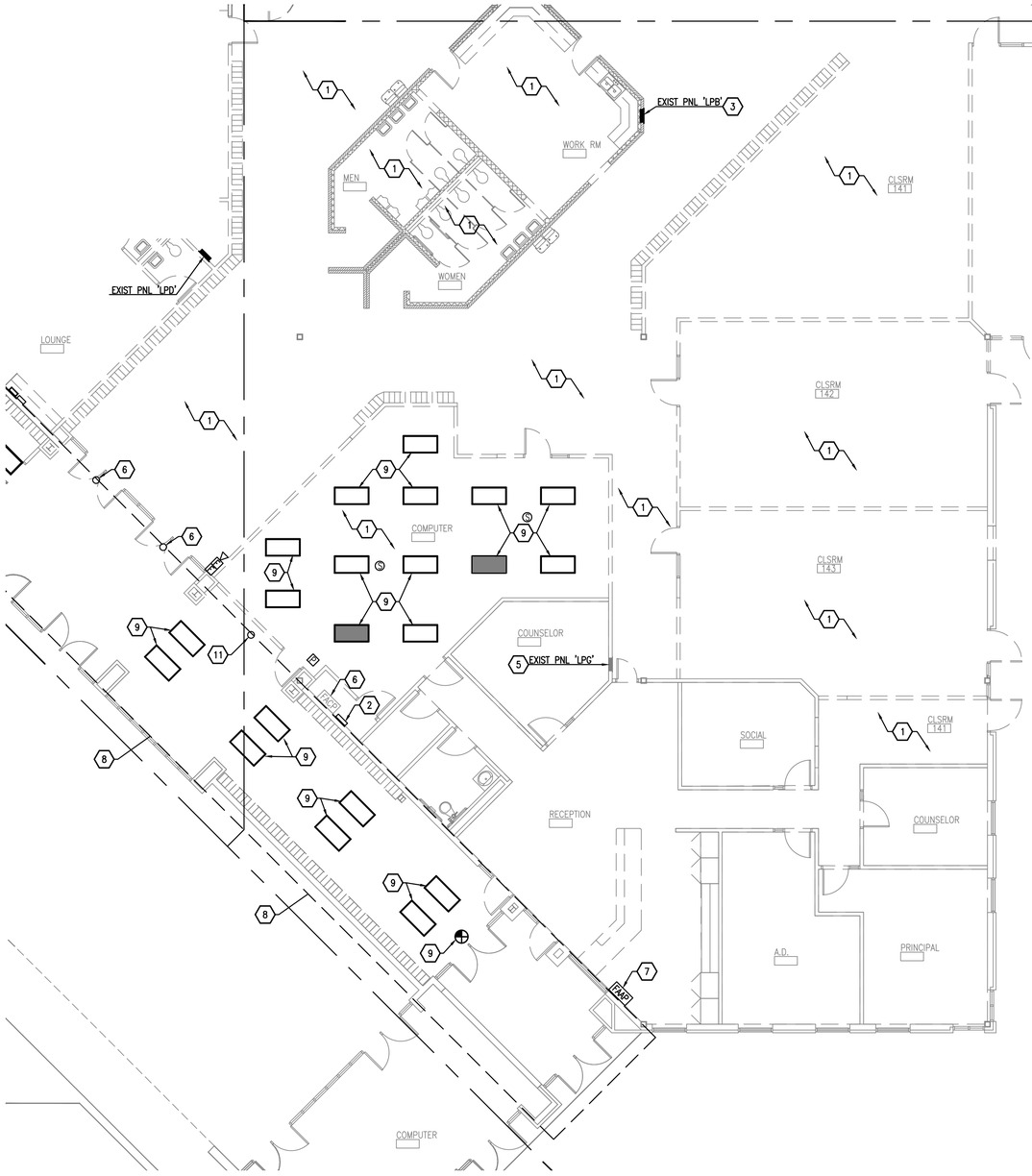
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
DEMOLITION PLAN
AREA 'A'

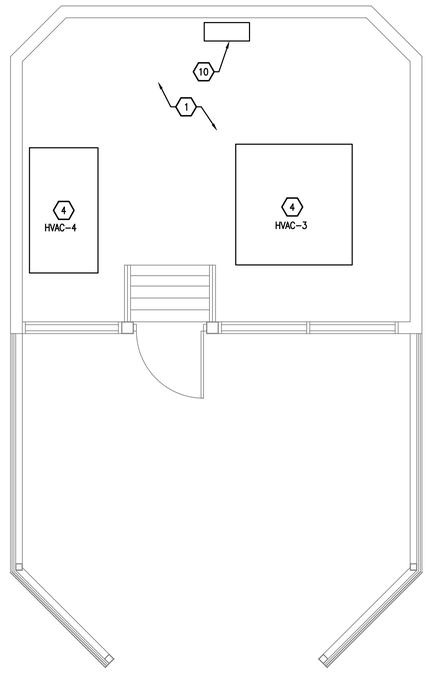
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E1.0



ELECTRICAL DEMOLITION PLAN - AREA 'B'

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



ELECTRICAL DEMOLITION PLAN - LOFT

SCALE: 1/4" = 1'-0" (LOCATED ABOVE WORK ROOM)

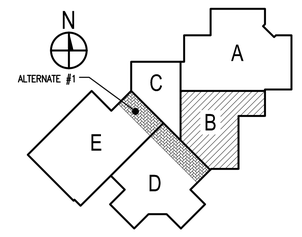
KEYNOTES

1. REMOVE EXISTING RECEPTACLES, DATA OUTLETS, LIGHTING FIXTURES AND CONTROL DEVICES, CALL BUTTONS, FIRE ALARM DEVICES, IN THIS ROOM/AREA. EXISTING WIRELESS ACCESS POINTS, P.A. SPEAKERS, SMARTBOOT TECH DEVICES, PROJECTORS AND ASSOCIATED SPEAKERS, AND SECURITY CAMERAS TO BE REMOVED BY OWNER. REMOVE ASSOCIATED BRANCH CIRCUITRY, CONDUIT, CABLING, WIRING, ETC. BACK TO SOURCE.
2. REMOVE EXISTING MASTER CLOCK PANEL COMPLETE.
3. REMOVE EXISTING PANEL COMPLETE. REMOVE EXISTING FEEDER, CONDUIT, ETC. BACK TO SOURCE. EXISTING BRANCH CIRCUITRY NOT BEING REMOVED TO BE EXTENDED AS REQUIRED TO NEAREST NEW PANEL.
4. MECHANICAL UNIT TO BE REMOVED BY MECHANICAL CONTRACTOR. DISCONNECT UNIT FROM POWER. REMOVE BRANCH CIRCUITRY AND CONDUIT BACK TO SOURCE.
5. EXISTING ELECTRICAL PANEL TO REMAIN.
6. EXISTING SIMPLEX FIRE ALARM CONTROL PANEL (FACP) TO REMAIN AND BE MAINTAINED.
7. REMOVE AND REINSTALL EXISTING SIMPLEX FIRE ALARM ANNUNCIATOR PANEL (FAAP) DUE TO NEW WALL SYSTEM. EXTEND EXISTING WIRING AS REQUIRED.
8. TO BE BID AS BID ALTERNATE #1.
9. REMOVE, CLEAN, STORE AND REINSTALL EXISTING LIGHTING FIXTURE DUE TO CEILING SYSTEM REPLACEMENT. EXTEND EXISTING WIRING AS REQUIRED.
10. EXISTING UNIT HEATER TO BE REMOVED, DISCONNECT EXISTING BRANCH CIRCUITRY AND RECONNECT TO NEW UNIT HEATER, SEE SHEET E3.1 FOR NEW LOCATION. EXTEND EXISTING BRANCH CIRCUITRY TO NEW LOCATION AS REQUIRED.
11. REMOVE EXISTING RECESSED DOWNLIGHT AND ASSOCIATED WIRING TO SOURCE.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8100 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4767

ARCHITECTURE
ENGINEERING
CONSULTING

INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

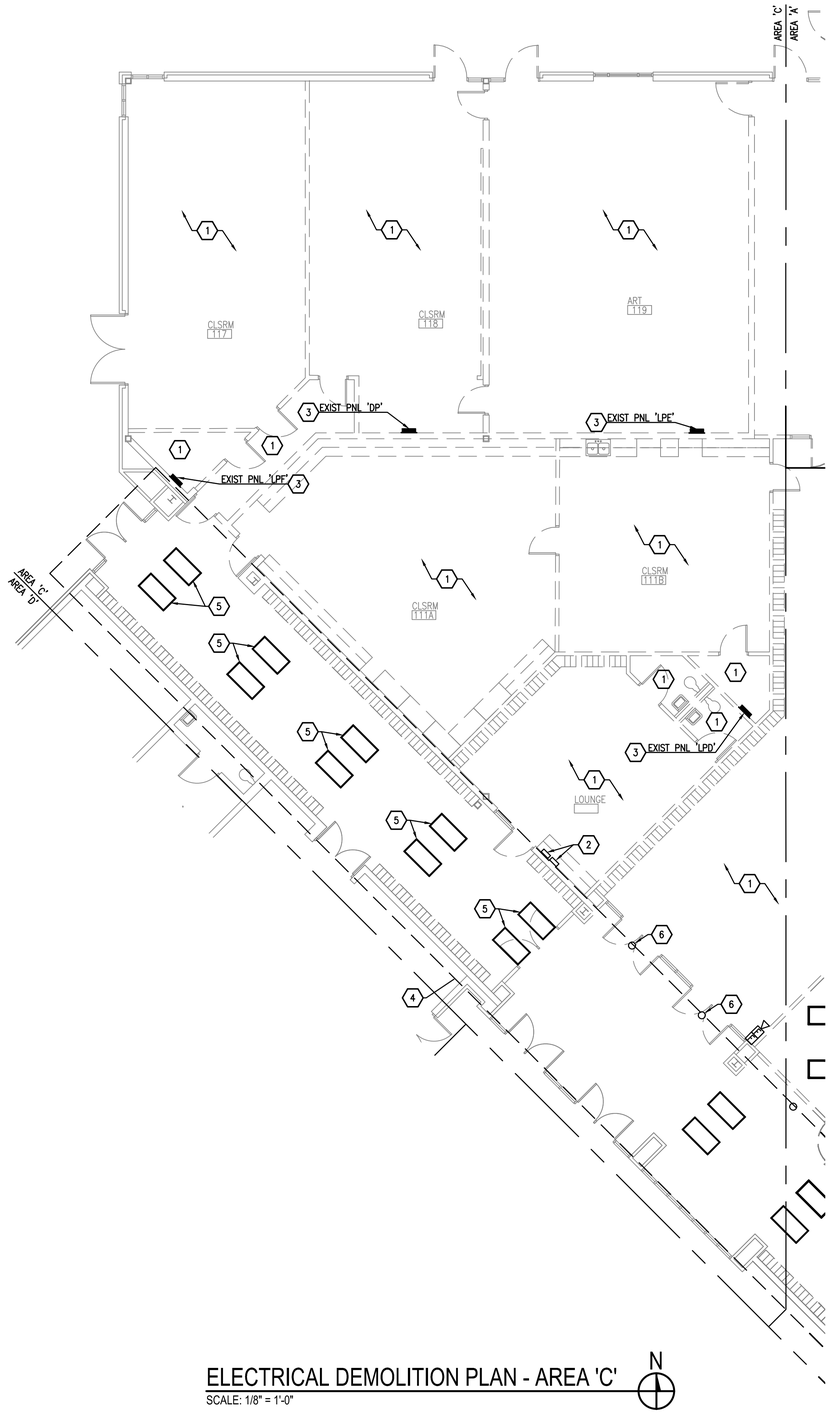
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
DEMOLITION PLAN
AREA 'B'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E1.1



ELECTRICAL DEMOLITION PLAN - AREA 'C'

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

N

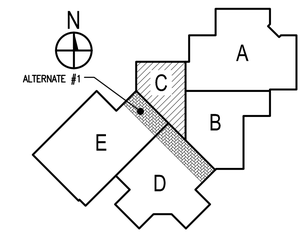
KEYNOTES

1. REMOVE EXISTING RECEPTACLES, DATA OUTLETS, LIGHTING FIXTURES AND CONTROL DEVICES, CALL BUTTONS, FIRE ALARM DEVICES, IN THIS ROOM/AREA. EXISTING WIRELESS ACCESS POINTS, P.A. SPEAKERS, SMARTBOOT TECH DEVICES, PROJECTORS AND ASSOCIATED SPEAKERS, AND SECURITY CAMERAS TO BE REMOVED BY OWNER. REMOVE ASSOCIATED BRANCH CIRCUITRY, CONDUIT, CABLING, WIRING, ETC. BACK TO SOURCE.
2. EXISTING FIRE ALARM SYSTEM LCD ANNUNCIATOR AND NAC PANEL TO BE REMOVED AND RELOCATED.
3. REMOVE EXISTING PANEL COMPLETE. REMOVE EXISTING FEEDER, CONDUIT, ETC. BACK TO SOURCE. EXISTING BRANCH CIRCUITRY NOT BEING REMOVED TO BE EXTENDED AS REQUIRED TO NEAREST NEW PANEL.
4. TO BE BID AS BID ALTERNATE #1.
5. REMOVE EXISTING LIGHTING FIXTURE, EXTEND EXISTING WIRING TO FEED AND CONTROL NEW LIGHTING FIXTURES AS REQUIRED.
6. REMOVE EXISTING RECESSED DOWNLIGHT AND ASSOCIATED WIRING TO SOURCE.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

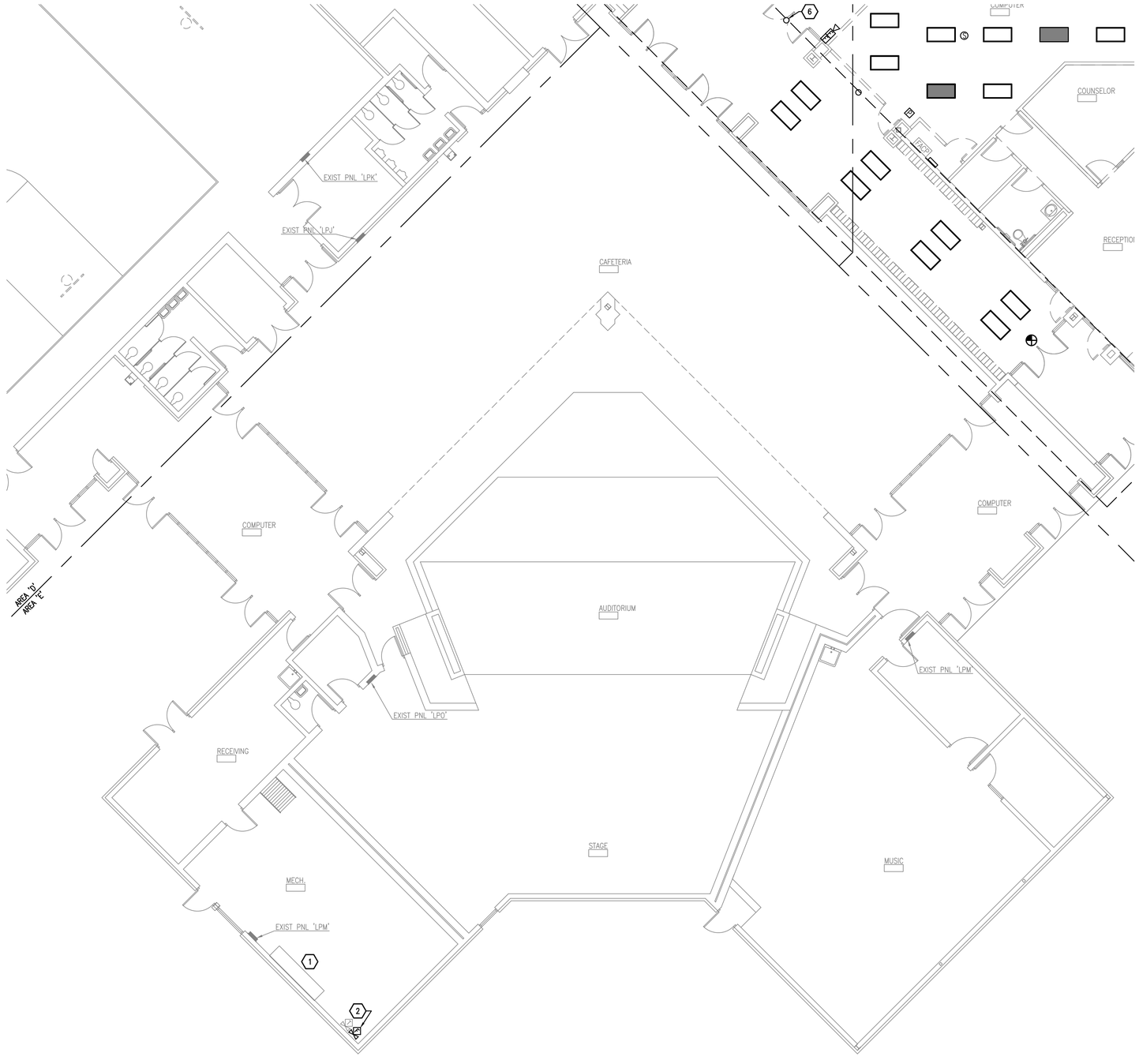
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
DEMOLITION PLAN
AREA 'C'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E1.2



ELECTRICAL DEMOLITION PLAN - AREA 'D'

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

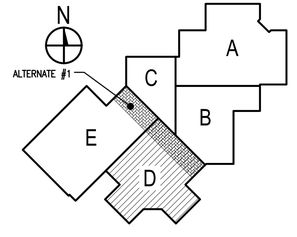
KEYNOTES

1. EXISTING MAIN DISTRIBUTION PANEL TO REMAIN.
2. REMOVE EXISTING FLOW SWITCH AND PROVIDE NEW SWITCH TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM DUE TO SYSTEM UPGRADES.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRGHTON OFFICE:
8001 LAKELINE TOWER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

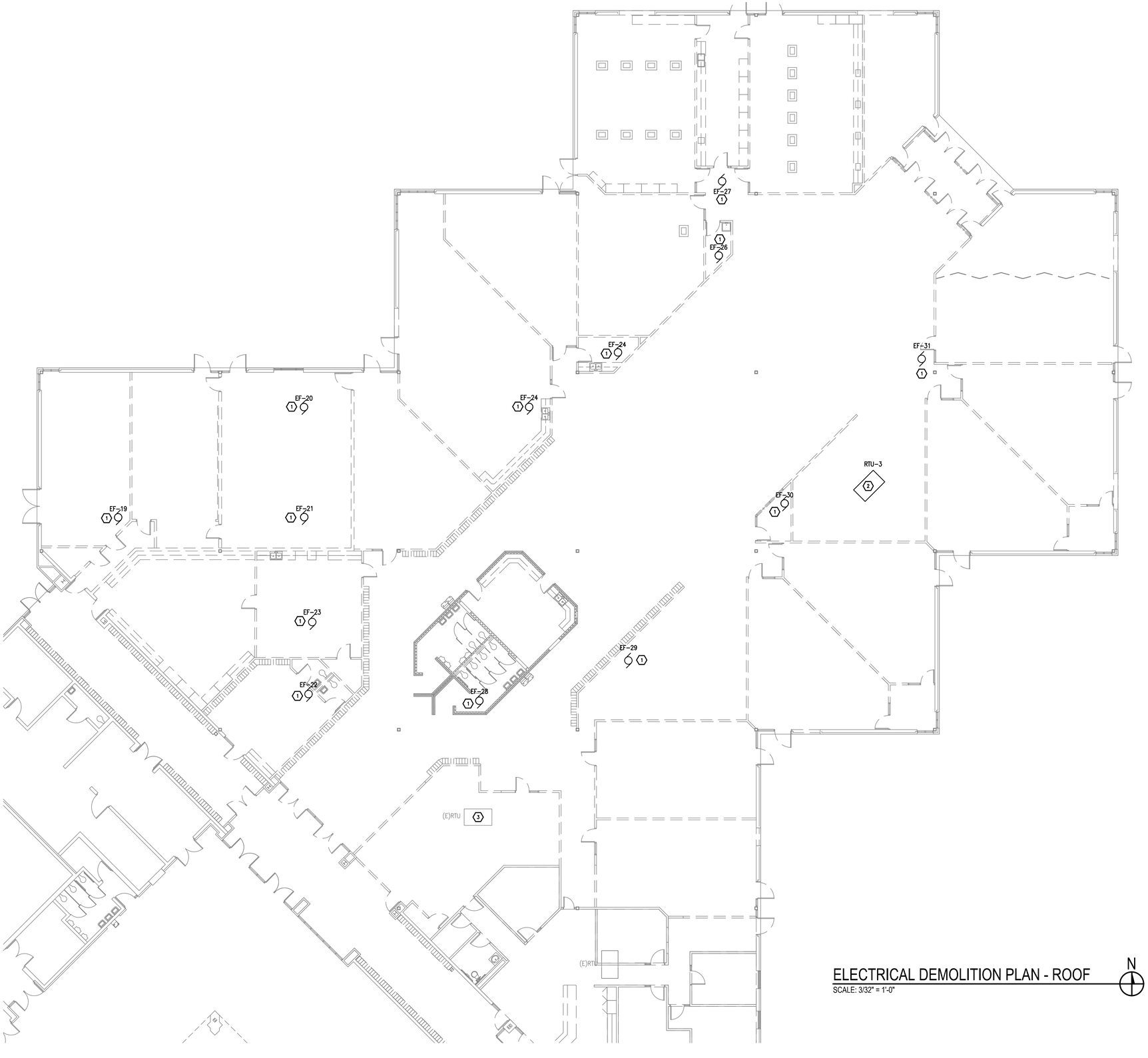
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
DEMOLITION PLAN
AREA 'D'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E1.3



ELECTRICAL DEMOLITION PLAN - ROOF

SCALE: 3/32" = 1'-0"

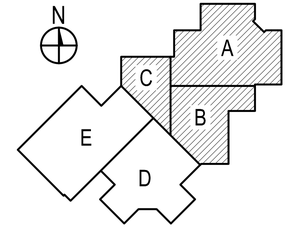
KEYNOTES

1. EXISTING EXHAUST FAN TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED WIRING, CONDUIT, DEVICES, ETC. TO SOURCE, WHERE ACCESSIBLE.
2. EXISTING ROOFTOP UNIT TO BE REMOVED, DISCONNECT AND REMOVE ALL ASSOCIATED WIRING, CONDUIT, DEVICES, ETC. TO SOURCE, WHERE ACCESSIBLE.
3. EXISTING ROOFTOP UNIT TO REMAIN AND BE MAINTAINED.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
DEMOLITION PLAN
ROOF

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

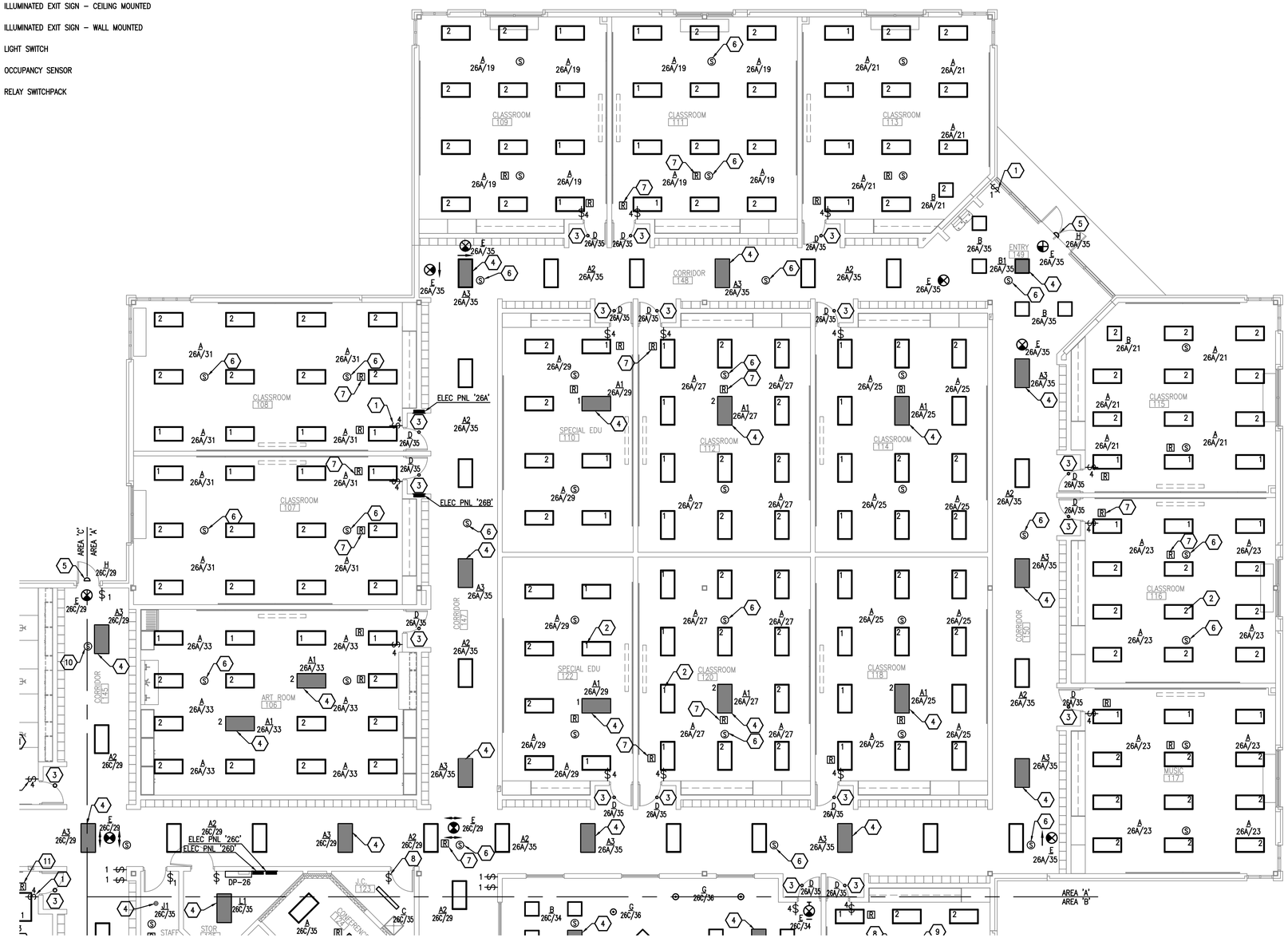
E1.4

ELECTRICAL SYMBOL LEGEND

- 2'x2' RECESSED LIGHTING FIXTURE
- 2'x4' RECESSED LIGHTING FIXTURE
- RECESSED WALL WASH FIXTURE
- RECESSED LINEAR FIXTURE
- LINEAR PENDANT FIXTURE
- CYLINDRICAL PENDANT FIXTURE
- 2" CIRCULAR DOWNLIGHT FIXTURE
- 6" CIRCULAR DOWNLIGHT FIXTURE
- VANITY FIXTURE
- ILLUMINATED EXIT SIGN – CEILING MOUNTED
- ILLUMINATED EXIT SIGN – WALL MOUNTED
- LIGHT SWITCH
- OCCUPANCY SENSOR
- RELAY SWITCHPACK

LIGHT SWITCH SCHEDULE

- $1 SINGLE SCENE WALLSTATION WAVELINX #WST-C-1 OR APPROVED EQUAL.
- $2 TWO SCENE WALLSTATION WITH RAISE, LOWER, AND ON/OFF BUTTONS WAVELINX #WST-C-3D, OR APPROVED EQUAL.
- $4 FOUR SCENE WALLSTATION WITH RAISE, LOWER, AND ON/OFF BUTTONS WAVELINX #WST-C-5D, OR APPROVED EQUAL.



ELECTRICAL NEW WORK LIGHTING PLAN - AREA 'A'

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

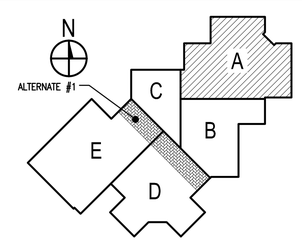
KEYNOTES

1. PROVIDE LIGHT SWITCH INDICATED PER LIGHT SWITCH SCHEDULE. PROVIDE SINGLE GANG DEEP BOX AND 3/4" CONDUIT UP TO CEILING SPACE. PROVIDE CATEGORY-5 CABLE BETWEEN LIGHT SWITCH(ES), OCCUPANCY SENSOR(S), RELAY SWITCHPACK(S), AND LIGHT FIXTURE(S) AS REQUIRED TO CONTROL FIXTURES IN THIS ROOM. TYPICAL FOR ALL WALL STATIONS ON THIS SHEET.
2. LIGHTING ZONE PROGRAMMING TYPICAL OF ROOMS WITH OVERHEAD PROJECTORS AND PULL DOWN SCREENS.
3. LIGHT FIXTURE TO BE CENTERED IN SOFFIT.
4. LIGHT FIXTURE TO BE DUAL FED WITH SWITCH LEG FOR CONTROL AS INDICATED AND AHEAD OF SWITCH LEG FOR EMERGENCY DRIVER FEED. LIGHT FIXTURE TO BE CONTROLLED BY SWITCH LEG DURING NORMAL OPERATION AND AUTOMATICALLY TRANSFER 'ON' DURING NORMAL POWER FAILURE.
5. EMERGENCY LIGHTING REMOTE HEAD TO REMAIN 'OFF' UNTIL NORMAL POWER OUTAGE OCCURS THEN FIXTURE WILL AUTOMATICALLY TURN 'ON'. TIE INTO LIGHTING CIRCUIT AS INDICATED AHEAD OF ANY SWITCH LEG.
6. PROVIDE WAVELINX OCCUPANCY SENSOR #OCS-C-DO6, OR APPROVED EQUAL, TO CONTROL LIGHTING FIXTURES AND CONTROLLED RECEPTACLES IN THIS ROOM/AREA. TYPICAL FOR ALL SENSORS ON THIS SHEET.
7. PROVIDE WAVELINX RELAY/SWITCHPACK #RSP-C-010-Z, OR APPROVED EQUAL, TO CONTROL LIGHTING FIXTURES IN THIS ROOM/AREA. TYPICAL OF ALL RELAY/SWITCH PACKS ON THIS SHEET.
8. PROVIDE GREENGATE #ONW-D-1001, OR EQUAL, WALL SWITCH SENSOR TO CONTROL LIGHTING IN THIS ROOM/AREA.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. LIGHTING ALTERATIONS SHALL COMPLY WITH ASHRAE STANDARD 90.1 2019, SECTION 9.1.2 OR ADDENDUM E OF THE 2021 SUPPLEMENT TO THIS STANDARD.
6. ALL NEW FIXTURES SHOWN TIED TO MOTION AND DAYLIGHT HARVESTING SENSORS. FIXTURES AND WALL STATIONS SHALL BE PROGRAMMED TO COMPLY WITH ASHRAE STANDARD 90.1 2019, SECTION 9.4. WALL STATIONS AND SENSORS SHALL BE PROGRAMMED TO PROVIDE THE FOLLOWING CONTROL AS REQUIRED; LOCAL MANUAL CONTROL, AUTOMATIC CONTROL, BI LEVEL CONTROL AND DAYLIGHT RESPONSIVE CONTROL.
7. NOTIFY ARCHITECT/ENGINEER OF IN FIELD OBSTRUCTIONS THAT INTERFERE WITH DESIGNED LIGHT FIXTURE LAYOUT AND COORDINATE WORK AS REQUIRED.
8. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LIGHT FIXTURE LOCATIONS.
9. REFER TO SHEET E2.0 FOR ELECTRICAL LEGEND AND LIGHT SWITCH SCHEDULE.
10. REFER TO SHEET E2.2 FOR LIGHTING FIXTURE SCHEDULE.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BIRMINGHAM OFFICE:
251 N. OLD WOODWARD AVE., SUITE 600
BIRMINGHAM, MI 48815
PHONE: (810)229-2701
FAX: (810)229-4767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

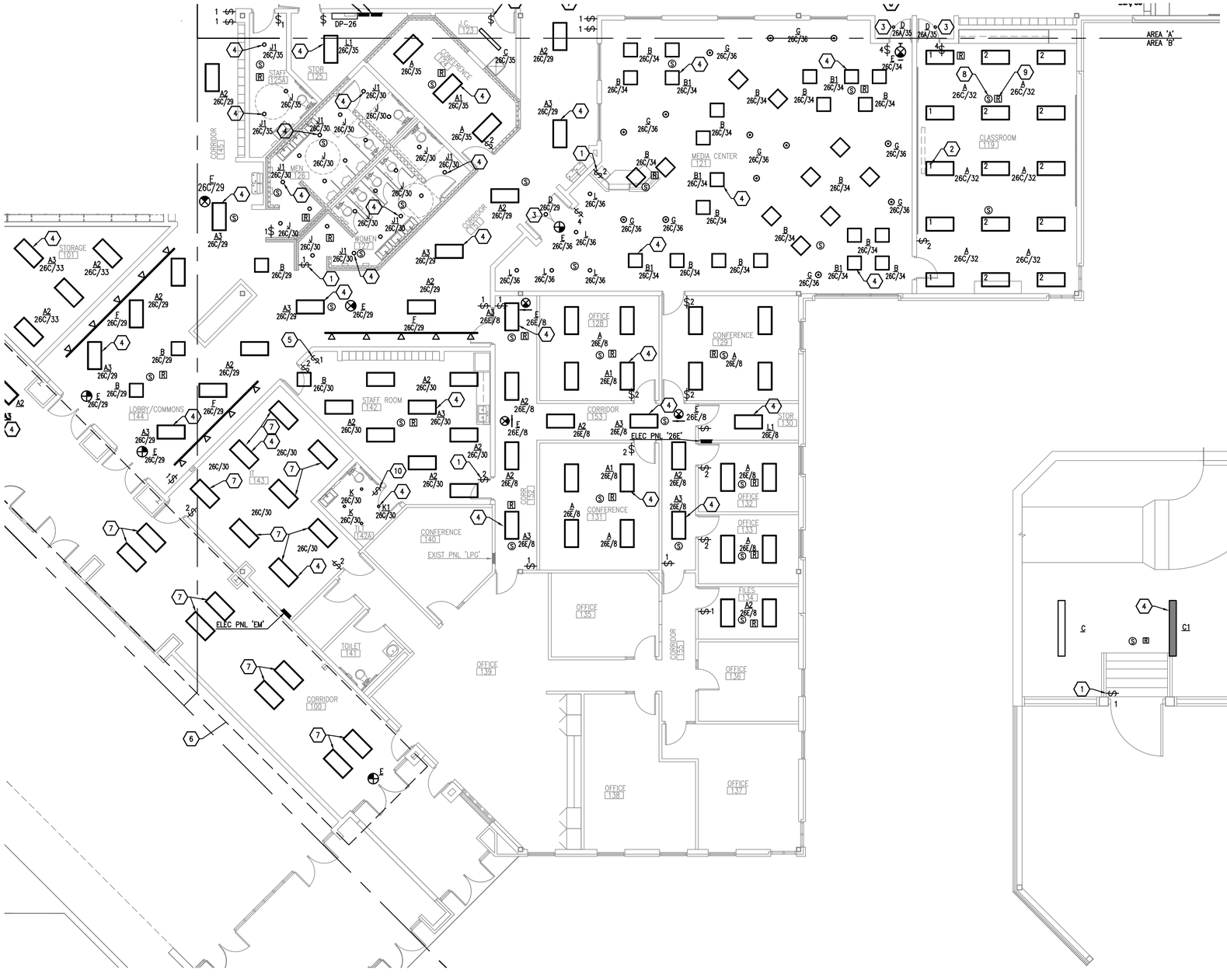
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
NEW WORK LIGHTING PLAN
AREA 'A'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E2.0



ELECTRICAL NEW WORK LIGHTING PLAN - AREA 'B'

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

ELECTRICAL NEW WORK LIGHTING PLAN - LOFT

SCALE: 1/4" = 1'-0" (LOCATED ABOVE CONFERENCE ROOM 124)

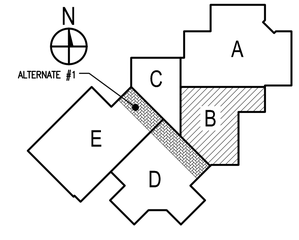
KEYNOTES

1. PROVIDE LIGHT SWITCH INDICATED PER LIGHT SWITCH SCHEDULE. PROVIDE SINGLE GANG DEEP BOX AND 3/4" CONDUIT UP TO CEILING SPACE. PROVIDE CATEGORY-5 CABLE BETWEEN LIGHT SWITCH(ES), OCCUPANCY SENSOR(S), RELAY SWITCHPACK(S), AND LIGHT FIXTURE(S) AS REQUIRED TO CONTROL FIXTURES IN THIS ROOM. TYPICAL FOR ALL WALL STATIONS ON THIS SHEET.
2. LIGHTING ZONE PROGRAMMING TYPICAL OF ROOMS WITH OVERHEAD PROJECTORS AND PULL DOWN SCREENS.
3. LIGHT FIXTURE TO BE CENTERED IN SOFFIT.
4. LIGHT FIXTURE TO BE DUAL FED WITH SWITCH LEG FOR CONTROL AS INDICATED AND AHEAD OF SWITCH LEG FOR EMERGENCY DRIVER FEED. LIGHT FIXTURE TO BE CONTROLLED BY SWITCH LEG DURING NORMAL OPERATION AND AUTOMATICALLY TRANSFER 'ON' DURING NORMAL POWER FAILURE.
5. SWITCH CONTROL FOR TRACK LIGHTING.
6. TO BE BID AS BID ALTERNATE #1.
7. REINSTALLED LIGHTING FIXTURE.
8. PROVIDE WAVELINX OCCUPANCY SENSOR #OCS-C-D06, OR APPROVED EQUAL, TO CONTROL LIGHTING FIXTURES AND CONTROLLED RECEPTACLES IN THIS ROOM/AREA. TYPICAL FOR ALL SENSORS ON THIS SHEET.
9. PROVIDE WAVELINX RELAY/SWITCHPACK #RSP-C-010-Z, OR APPROVED EQUAL, TO CONTROL LIGHTING FIXTURES IN THIS ROOM/AREA. TYPICAL FOR ALL RELAY/ SWITCHPACKS ON THIS SHEET.
10. PROVIDE GREENGATE #ONW-D-1001, OR EQUAL, WALL SWITCH SENSOR TO CONTROL LIGHTING IN THIS ROOM/AREA.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. LIGHTING ALTERATIONS SHALL COMPLY WITH ASHRAE STANDARD 90.1 2019, SECTION 9.1.2 OR ADDENDUM E OF THE 2021 SUPPLEMENT TO THIS STANDARD.
6. ALL NEW FIXTURES SHOWN TIED TO MOTION AND DAYLIGHT HARVESTING SENSORS. FIXTURES AND WALL STATIONS SHALL BE PROGRAMMED TO COMPLY WITH ASHRAE STANDARD 90.1 2019, SECTION 9.4. WALL STATIONS AND SENSORS SHALL BE PROGRAMMED TO PROVIDE THE FOLLOWING CONTROL AS REQUIRED; LOCAL MANUAL CONTROL, AUTOMATIC CONTROL, BI LEVEL CONTROL AND DAYLIGHT RESPONSIVE CONTROL.
7. NOTIFY ARCHITECT/ENGINEER OF IN FIELD OBSTRUCTIONS THAT INTERFERE WITH DESIGNED LIGHT FIXTURE LAYOUT AND COORDINATE WORK AS REQUIRED.
8. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LIGHT FIXTURE LOCATIONS.
9. REFER TO SHEET E2.0 FOR ELECTRICAL LEGEND AND LIGHT SWITCH SCHEDULE.
10. REFER TO SHEET E2.2 FOR LIGHTING FIXTURE SCHEDULE.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BIRGHTON OFFICE:
7125 ORCHARD LAKE AVE., SUITE 600
BIRGHTON, MI 48810
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
NEW WORK LIGHTING PLAN
AREA 'B'

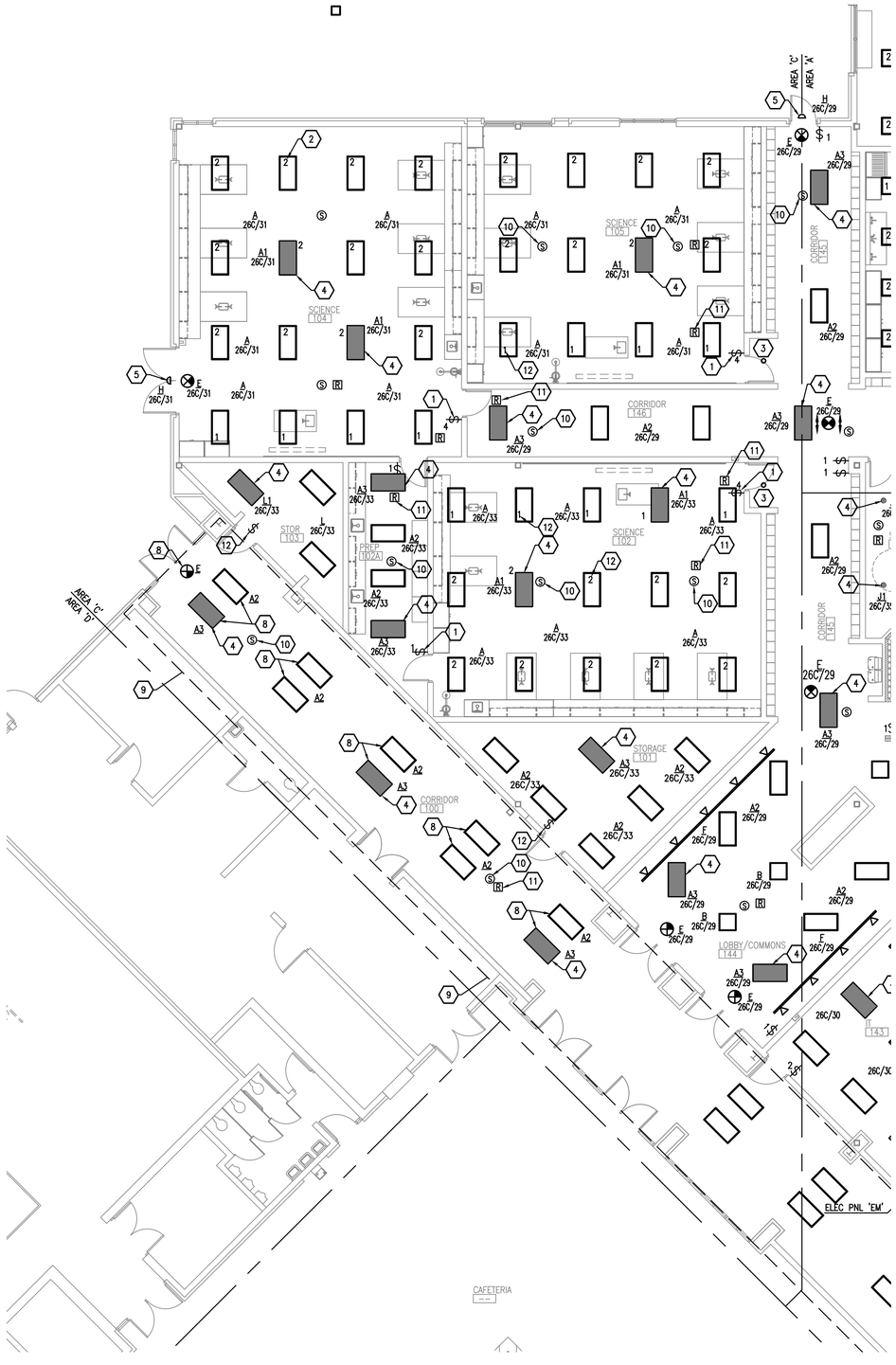
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E2.1

LIGHTING FIXTURE SCHEDULE

TYPE	LED	DESCRIPTION	LAMP NO./TYPE	MANUFACTURER	VOLTS	NOTES
A	X	2x4 RECESSED LAY-IN	LED	METALUX #24ENLD254UNVL840CD1-U	120	
A1	X	2x4 RECESSED LAY-IN	LED	METALUX #24ENLD254UNVEL14WL840CD1-U	120	1
A2	X	2x4 RECESSED LAY-IN	LED	METALUX #24ENLD243UNVL840CD1-U	120	
A3	X	2x4 RECESSED LAY-IN	LED	METALUX #24ENLD243UNVL840CD1-U	120	1
B	X	2x2 RECESSED LAY-IN	LED	METALUX #22ENLD243UNVL840CD1-U	120	
B1	X	2x2 RECESSED LAY-IN	LED	METALUX #22ENLD243UNVEL14WL840CD1-U	120	1
C	X	SURFACE WRAPAROUND	LED	METALUX #4SWLED40SLCUNVL840CD1-U	120	
C1	X	SURFACE WRAPAROUND	LED	METALUX #4SWLED40SLCUNVEL14WL840CD1-U	120	1
D	X	RECESSED DOWNLIGHT	LED	ALPHABET #NU4RDLED20LM40K8020DCLWHBZNCUNVDIM10	120	
E	X	EXIT LIGHT	LED	SURELITES #LPX7	120	
F	X	TRACK LIGHT	LED	ALPHABET #LXPROWD20LM40K30189735DCL	120	
G	X	PENDANT	LED	ALPHABET #BETA4RSW20LM40K8065DCLWHWH	120	
H	X	WALL MOUNTED REMOTE	LED	SURELITES #AEL231SD	120	
J	X	RECESSED DOWNLIGHT	LED	ALPHABET #NU6RDSW30LM40K80SS60120DIM10NCWHWH	120	
J1	X	RECESSED DOWNLIGHT	LED	ALPHABET #NU6RDSW30LM40K80SS60120DIM10EM12NCWHWH	120	1
K	X	RECESSED DOWNLIGHT	LED	ALPHABET #NU6RDSW10LM40K80SS6012ODIM10NCWHWH	120	
K1	X	RECESSED DOWNLIGHT	LED	ALPHABET #NU6RDSW10LM40K80SS60120DIM10EM12NCWHWH	120	1
L	X	2x4 RECESSED LAY-IN	LED	METALUX #24CZ245UNVEL14WL840CD1-U	120	
L1	X	2x4 RECESSED LAY-IN	LED	METALUX #24CZ245UNVEL14WL840CD1WPS-U	120	1

NOTES TO LIGHTING FIXTURE SCHEDULE:
1. PROVIDE FIXTURE WITH EMERGENCY 1400 LUMENS MINIMUM.



ELECTRICAL NEW WORK LIGHTING PLAN - AREA 'C'

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

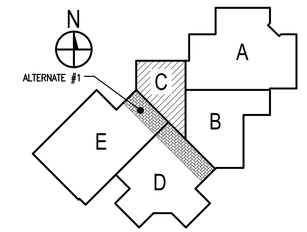
KEYNOTES

1. PROVIDE LIGHT SWITCH INDICATED PER LIGHT SWITCH SCHEDULE. PROVIDE SINGLE GANG DEEP BOX AND 3/4" CONDUIT UP TO CEILING SPACE. PROVIDE CATEGORY-5 CABLE BETWEEN LIGHT SWITCH(ES), OCCUPANCY SENSOR(S), RELAY SWITCHPACK(S), AND LIGHT FIXTURE(S) AS REQUIRED TO CONTROL FIXTURES IN THIS ROOM. TYPICAL FOR ALL WALL STATIONS ON THIS SHEET.
2. LIGHTING ZONE PROGRAMMING TYPICAL OF ROOMS WITH OVERHEAD PROJECTORS AND PULL DOWN SCREENS.
3. LIGHT FIXTURE TO BE CENTERED IN SOFFIT.
4. LIGHT FIXTURE TO BE DUAL FED WITH SWITCH LEG FOR CONTROL AS INDICATED AND AHEAD OF SWITCH LEG FOR EMERGENCY DRIVER FEED. LIGHT FIXTURE TO BE CONTROLLED BY SWITCH LEG DURING NORMAL OPERATION AND AUTOMATICALLY TRANSFER 'ON' DURING NORMAL POWER FAILURE.
5. EMERGENCY LIGHTING REMOTE HEAD TO REMAIN 'OFF' UNTIL NORMAL POWER OUTAGE OCCURS THEN FIXTURE WILL AUTOMATICALLY TURN 'ON'. TIE INTO LIGHTING CIRCUIT AS INDICATED AHEAD OF ANY SWITCH LEG.
6. PROVIDE WAVELINX WIRED OCS-D-P06, OR EQUAL, OCCUPANCY SENSOR TO CONTROL LIGHTING IN THIS ROOM/AREA.
7. REINSTALL EXISTING LIGHTING FIXTURE.
8. PROVIDE NEW LIGHTING FIXTURE AS INDICATED.
9. TO BE BID AS BID ALTERNATE #1.
10. PROVIDE WAVELINX OCCUPANCY SENSOR #OCS-C-D06, OR APPROVED EQUAL, TO CONTROL LIGHTING FIXTURES AND CONTROLLED RECEPTACLES IN THIS ROOM/AREA. TYPICAL FOR ALL SENSORS ON THIS SHEET.
11. PROVIDE WAVELINX RELAY/SWITCHPACK #RSP-C-010-Z, OR APPROVED EQUAL, TO CONTROL LIGHTING FIXTURES IN THIS ROOM/AREA. TYPICAL FOR ALL RELAY/ SWITCHPACKS ON THIS SHEET
12. PROVIDE GREENGATE #ONW-D-1001, OR EQUAL, WALL SWITCH SENSOR TO CONTROL LIGHTING IN THIS ROOM/AREA.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. LIGHTING ALTERATIONS SHALL COMPLY WITH ASHRAE STANDARD 90.1 2019, SECTION 9.1.2 OR ADDENDUM E OF THE 2021 SUPPLEMENT TO THIS STANDARD.
6. ALL NEW FIXTURES SHOWN TIED TO MOTION AND DAYLIGHT HARVESTING SENSORS. FIXTURES AND WALL STATIONS SHALL BE PROGRAMMED TO COMPLY WITH ASHRAE STANDARD 90.1 2019, SECTION 9.4. WALL STATIONS AND SENSORS SHALL BE PROGRAMMED TO PROVIDE THE FOLLOWING CONTROL AS REQUIRED; LOCAL MANUAL CONTROL, AUTOMATIC CONTROL, BI LEVEL CONTROL AND DAYLIGHT RESPONSIVE CONTROL.
7. NOTIFY ARCHITECT/ENGINEER OF IN FIELD OBSTRUCTIONS THAT INTERFERE WITH DESIGNED LIGHT FIXTURE LAYOUT AND COORDINATE WORK AS REQUIRED.
8. REFER TO ARCHITECTURAL PLANS FOR DIMENSIONED LIGHT FIXTURE LOCATIONS.
9. REFER TO SHEET E2.0 FOR ELECTRICAL LEGEND AND LIGHT SWITCH SCHEDULE.
10. REFER TO SHEET E2.2 FOR LIGHTING FIXTURE SCHEDULE.

KEY PLAN



MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4449
FAX: (906)228-7324

BRIGHTON OFFICE:
8100 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

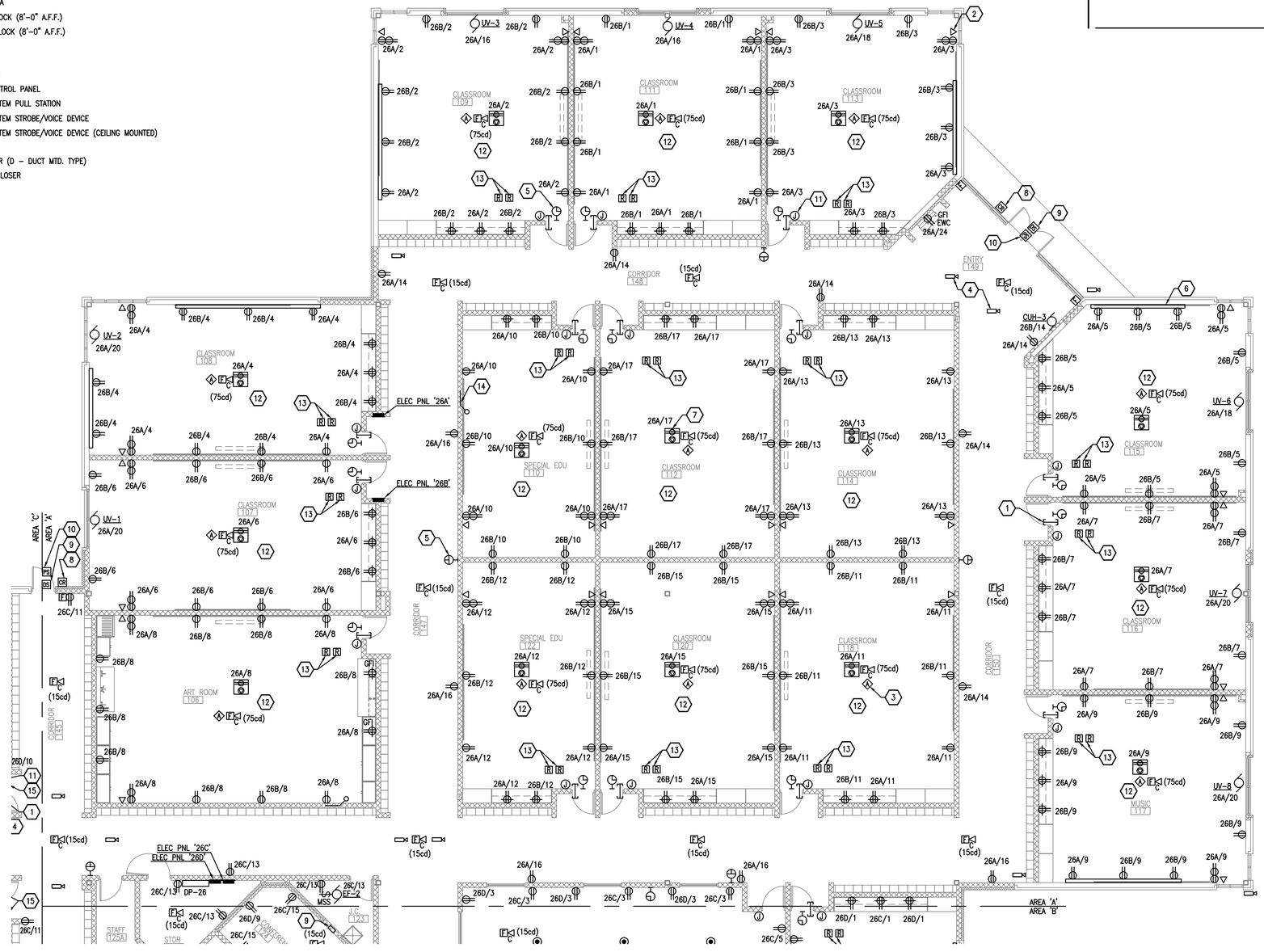
ELECTRICAL
NEW WORK LIGHTING PLAN
AREA 'C'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E2.2

ELECTRICAL SYMBOL LEGEND

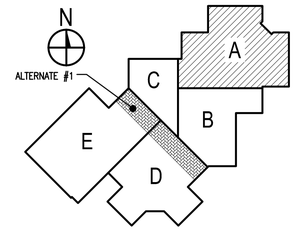
- BRANCH CIRCUIT BREAKER PANEL
- DUPLEX RECEPTACLE
- COUNTERTOP DUPLEX RECEPTACLE (8" ABOVE COUNTERTOP OR 48" A.F.F.)
- QUAD RECEPTACLE
- COUNTERTOP QUAD RECEPTACLE (8" ABOVE COUNTERTOP OR 48" A.F.F.)
- CEILING MOUNTED DUPLEX RECEPTACLES
- SURFACE MOUNTED RACEWAY
- FLOOR BOX
- JUNCTION BOX
- CONDUIT SLEEVE
- DATA OUTLET
- DATA OUTLET
- CEILING MOUNTED DATA OUTLET
- WIRELESS ACCESS POINT
- SECURITY CAMERA
- SINGLE FACE CLOCK (8'-0" A.F.F.)
- DOUBLE FACE CLOCK (8'-0" A.F.F.)
- CR — CARD READER
- DS — DOOR STRIKE
- PS — POSITION SWITCH
- FACP — FIRE ALARM CONTROL PANEL
- F — FIRE ALARM SYSTEM PULL STATION
- FIRE ALARM SYSTEM STROBE/VOICE DEVICE
- FIRE ALARM SYSTEM STROBE/VOICE DEVICE (CEILING MOUNTED)
- SMOKE DAMPER
- SD — SMOKE DETECTOR (D – DUCT MTD. TYPE)
- DOOR HOLDER/CLOSER



ELECTRICAL NEW WORK POWER PLAN - AREA 'A'

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

KEY PLAN



KEYNOTES

1. PROVIDE (1) 2" CONDUIT STUB THROUGH WALL ABOVE CEILING FOR DATA/COMMUNICATION CABLING. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. TYPICAL FOR ALL CONDUIT SLEEVES ON THIS SHEET UNLESS NOTED OTHERWISE.
2. PROVIDE SINGLE GANG, DEEP BOX, WITH 3/4" CONDUIT STUB TO CORRIDOR CEILING SPACE, PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. PROVIDE 2–CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL DATA OUTLETS ON THIS SHEET UNLESS NOTED OTHERWISE.
3. NEW WIRELESS ACCESS POINT ANTENNA LOCATION. ANTENNA PROVIDED AND INSTALLED BY OWNER. PROVIDE 1–CATEGORY 6 CABLE FROM ANTENNA LOCATION TO NETWORK TERMINATION RACK IN IT ROOM. PROVIDE 10' SLACK CABLE AT LOCATION COILED NEATLY ABOVE ACCESSIBLE CEILING SPACE. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL WIRELESS ACCESS POINTS ON THIS SHEET UNLESS NOTED OTHERWISE.
4. NEW IP SECURITY CAMERA LOCATION. CAMERA PROVIDED AND INSTALLED BY OWNER. PROVIDE 1–CATEGORY 6 CABLE FROM CAMERA LOCATION TO NETWORK TERMINATION RACK IN IT ROOM. LEAVE 10' OF SLACK CABLE COILED NEATLY ABOVE CEILING SPACE. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL SECURITY CAMERAS ON THIS SHEET UNLESS NOTED OTHERWISE.
5. NEW CLOCK LOCATION. CLOCK TO BE PROVIDED AND INSTALLED BY OWNER. PROVIDE SINGLE GANG, DEEP BOX, WITH 3/4" CONDUIT STUB TO CORRIDOR CEILING SPACE FOR CLOCK. PROVIDE 1–CATEGORY 6 CABLE FROM DEEP BOX TO NETWORK TERMINATION RACK IN IT ROOM. LEAVE 5' OF SLACK CABLE COILED NEATLY ABOVE CEILING SPACE. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. TERMINATE BOTH ENDS PER SPECIFICATIONS. PROVIDE BLANK COVER PLATE. TYPICAL FOR ALL CLOCKS ON THIS SHEET UNLESS NOTED OTHERWISE.
6. PROVIDE LEGRAND WIREMOLD 2000 SERIES OR EQUAL MULTI–OUTLET RACEWAY SYSTEM. RACEWAY LENGTH TO MATCH THAT SHOWN ON DRAWINGS. TYPICAL FOR ALL SURFACE MOUNTED RACEWAYS ON THIS SHEET UNLESS NOTED OTHERWISE.
7. NEW WIRELESS PROJECTOR LOCATION. OWNER TO PROVIDE AND INSTALL PROJECTOR. PROVIDE DUPLEX RECEPTACLE AND DATA OUTLET MOUNTED TO OWNER PROVIDED PROJECTOR PLATE. PROVIDE 2–CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. TYPICAL FOR ALL CEILING MOUNTED RECEPTACLES ON THIS SHEET UNLESS NOTED OTHERWISE. PROJECTOR RECEPTACLE TO BE EXCLUDED FROM SWITCHED RELAY CONTROL.
8. NEW CARD READER TO BE PROVIDED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE OUTDOOR RATED, SINGLE GANG, DEEP BOX, AT 44" A.F.F. WITH 3/4" CONDUIT STUB TO JUNCTION BOX ABOVE CORRIDOR CEILING SPACE. PROVIDE 1–CATEGORY 6 CABLE FROM JUNCTION BOX TO NETWORK TERMINATION RACK IN IT ROOM. TYPICAL FOR ALL CARD READERS ON THIS SHEET UNLESS NOTED OTHERWISE.
9. CONNECT DOOR STRIKE PROVIDED BY DOOR HARDWARE SUPPLIER TO EXISTING BUILDING ACCESS CONTROL SYSTEM. PROVIDE ALL REQUIRED WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM. TYPICAL FOR ALL DOOR STRIKES ON THIS SHEET UNLESS NOTED OTHERWISE.
10. CONNECT POSITION SWITCH PROVIDED BY DOOR HARDWARE SUPPLIER TO BUILDING'S SECURITY SYSTEM, SEE ALSO SHEET E3.4 FOR APPROXIMATE LOCATION. PROVIDE ALL REQUIRED WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM. TYPICAL FOR ALL DOOR POSITION SWITCHES ON THIS SHEET UNLESS NOTED OTHERWISE. CONTACT PERSON CLAY CROST, SONITROL GREAT LAKES CCROST@SOLUCIENTSECURITY.COM.
11. PROVIDE SINGLE GANG, DEEP BOX, BOX LOCATED 12" A.F.F. AND APPROXIMATELY 8"–10" FROM DOOR WITH (1) 1/2" CONDUIT TO ABOVE CEILING FOR "SMARTBOOT" WIRING BY OTHERS.
12. ALL DUPLEX RECEPTACLES IN THIS ROOM/SPACE SHALL HAVE THE TOP RECEPTACLE AUTOMATICALLY CONTROLLED TO COMPLY WITH THE 2021 MICHIGAN ENERGY CODE. THE TOP RECEPTACLE SHALL BE LABELED "CONTROLLED" FROM THE FACTORY. EACH CONTROLLED RECEPTACLE CIRCUIT SHALL BE SWITCHED VIA (1) RELAY SWITCHPACK MOUNTED ABOVE THE CEILING. THE RECEPTACLE RELAY SWITCHPACK(S) SHALL BE CONNECTED, VIA CAT6, TO THE LIGHTING SWITCHPACK(S) IN THE SPACE. THE LIGHTING OCCUPANCY SENSORS SHALL ALSO CONTROL THESE SWITCHED RECEPTACLES. SEE LIGHTING PLANS FOR OCCUPANCY SENSOR AND RELAY SWITCHPACK LOCATIONS.
13. PROVIDE WAVELINX RELAY/SWITCHPACK #RSP–C–010–Z, OR APPROVED EQUAL, TO CONTROL CONTROLLED RECEPTACLES IN THIS ROOM/AREA.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. ALL NEW RECEPTACLE DEVICES SHALL BE TAMPER RESISTANT (TR) TYPE. NOTIFY ARCHITECT/ENGINEER OF ANY IN FIELD OBSTRUCTIONS THAT INTERFERE WITH LOCATIONS OF NEW RECEPTACLES AND COORDINATE WORK AS REQUIRED.
6. REFER TO SHEET E3.0 FOR ELECTRICAL SYMBOL LEGEND.
7. ALL NEW FIRE ALARM DEVICES ON THESE DRAWINGS TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
8. A DIFFERED SUBMITTAL FOR FIRE ALARM SYSTEM SHALL BE SENT TO BCC FOR REVIEW ONCE BIDS FOR PROJECT HAVE BEEN RECEIVED AND CONTRACT(S) AWARDED. THE INSTALLING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DESIGN MINIMUM AUDIBILITY LEVEL FOR OCCUPANT NOTIFICATION, BATTERY AND VOLTAGE DROP CALCULATIONS AND OTHER ITEMS SPECIFIC TO THE SYSTEM BEING INSTALLED ON THIS PROJECT.
9. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.
10. PROVIDE FIRE SEALANTS AT 2 HOUR WALL PENETRATIONS PER SPECIFICATIONS, SEE SHEET A0.0 FOR WALL PARTITION LOCATIONS.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

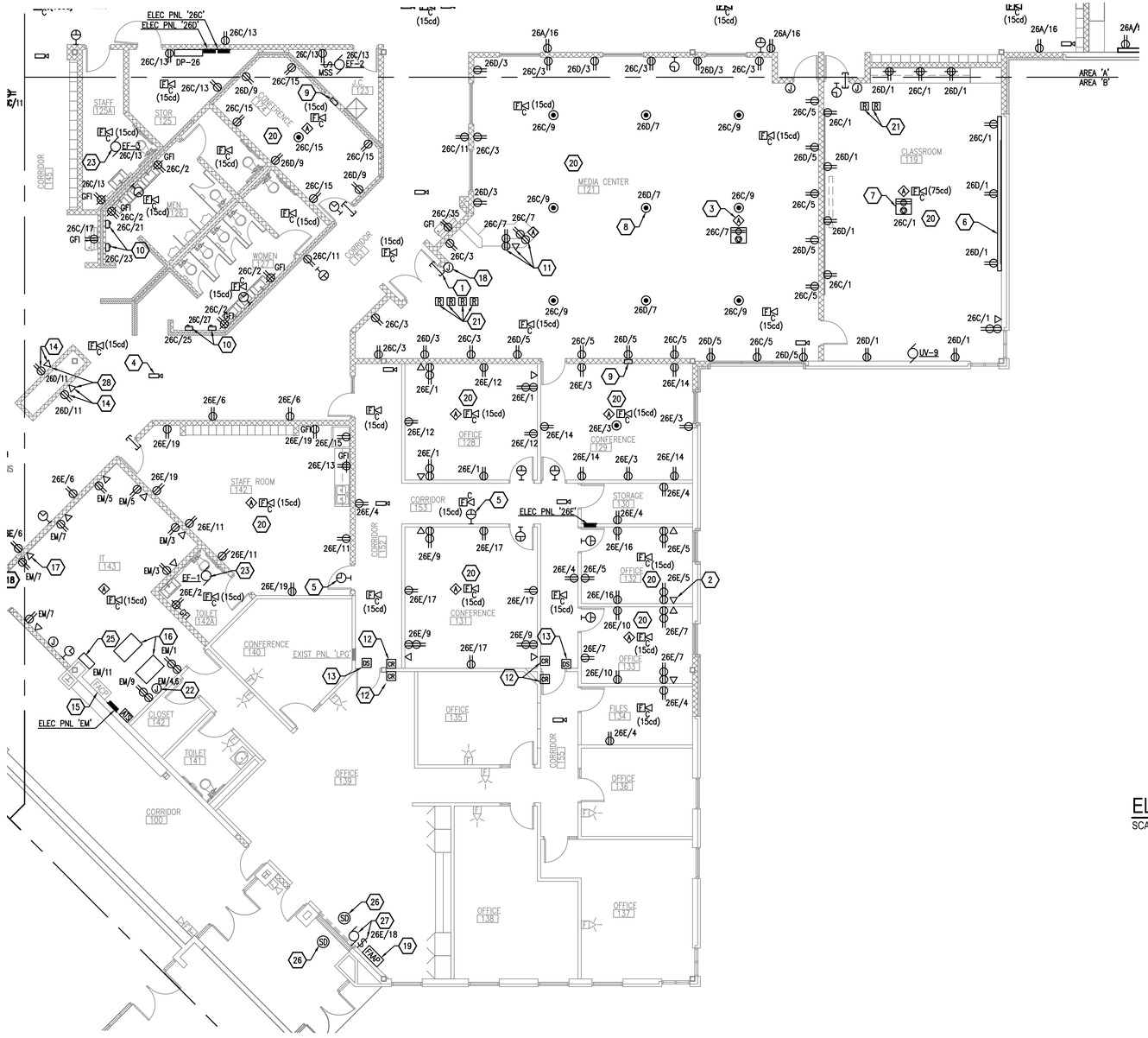
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
NEW WORK POWER PLAN
AREA 'A'

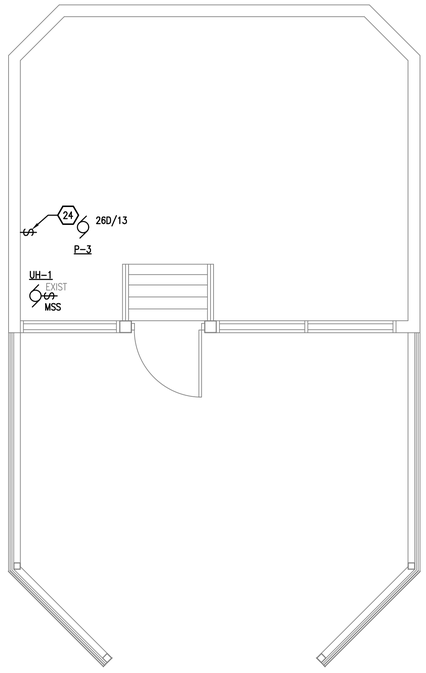
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E3.0



ELECTRICAL NEW WORK POWER PLAN - AREA 'B'

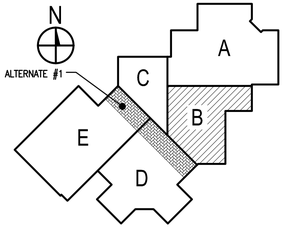
SCALE: 1/8" = 1'-0"



ELECTRICAL NEW WORK POWER PLAN - LOFT

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

KEY PLAN



GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL. SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. ALL NEW RECEPTACLE DEVICES SHALL BE TAMPER RESISTANT (TR) TYPE. NOTIFY ARCHITECT/ENGINEER OF ANY IN FIELD OBSTRUCTIONS THAT INTERFERE WITH LOCATIONS OF NEW RECEPTACLES AND COORDINATE WORK AS REQUIRED.
6. REFER TO SHEET E3.0 FOR ELECTRICAL SYMBOL LEGEND.
7. ALL NEW FIRE ALARM DEVICES ON THESE DRAWINGS TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
8. A DIFFERED SUBMITTAL FOR FIRE ALARM SYSTEM SHALL BE SENT TO BCC FOR REVIEW ONCE BIDS FOR PROJECT HAVE BEEN RECEIVED AND CONTRACT(S) AWARDED. THE INSTALLING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DESIGN MINIMUM AUDIBILITY LEVEL FOR OCCUPANT NOTIFICATION, BATTERY AND VOLTAGE DROP CALCULATIONS AND OTHER ITEMS SPECIFIC TO THE SYSTEM BEING INSTALLED ON THIS PROJECT.
9. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.
10. PROVIDE FIRE SEALANTS AT 2 HOUR WALL PENETRATIONS PER SPECIFICATIONS, SEE SHEET A0.0 FOR WALL PARTITION LOCATIONS.

KEYNOTES

1. PROVIDE (1) 2" CONDUIT STUB THROUGH WALL ABOVE CEILING FOR DATA/COMMUNICATION CABLING. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. TYPICAL FOR ALL CONDUIT SLEEVES ON THIS SHEET UNLESS NOTED OTHERWISE.
2. PROVIDE SINGLE GANG, DEEP BOX, WITH 3/4" CONDUIT STUB TO CORRIDOR CEILING SPACE. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. PROVIDE 2-CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL DATA OUTLETS ON THIS SHEET UNLESS NOTED OTHERWISE.
3. NEW WIRELESS ACCESS POINT ANTENNA LOCATION. ANTENNA PROVIDED AND INSTALLED BY OWNER. PROVIDE 1-CATEGORY 6 CABLE FROM ANTENNA LOCATION TO NETWORK TERMINATION RACK IN IT ROOM. PROVIDE 10' SLACK CABLE AT LOCATION COILED NEATLY ABOVE ACCESSIBLE CEILING SPACE. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL WIRELESS ACCESS POINTS ON THIS SHEET UNLESS NOTED OTHERWISE.
4. NEW IP SECURITY CAMERA LOCATION. CAMERA PROVIDED AND INSTALLED BY OWNER. PROVIDE 1-CATEGORY 6 CABLE FROM CAMERA LOCATION TO NETWORK TERMINATION RACK IN IT ROOM. LEAVE 10' OF SLACK CABLE COILED NEATLY ABOVE CEILING SPACE. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL SECURITY CAMERAS ON THIS SHEET UNLESS NOTED OTHERWISE.
5. NEW CLOCK LOCATION. CLOCK TO BE PROVIDED AND INSTALLED BY OWNER. PROVIDE SINGLE GANG, DEEP BOX, WITH 3/4" CONDUIT STUB TO CORRIDOR CEILING SPACE FOR CLOCK. PROVIDE 1-CATEGORY 6 CABLE FROM DEEP BOX TO NETWORK TERMINATION RACK IN IT ROOM. LEAVE 5' OF SLACK CABLE COILED NEATLY ABOVE CEILING SPACE. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. TERMINATE BOTH ENDS PER SPECIFICATIONS. PROVIDE BLANK COVER PLATE. TYPICAL FOR ALL CLOCKS ON THIS SHEET UNLESS NOTED OTHERWISE.
6. PROVIDE LEGRAND WIREMOLD 2000 SERIES OR EQUAL MULTI-OUTLET RACEWAY SYSTEM. RACEWAY LENGTH TO MATCH THAT SHOWN ON DRAWINGS. TYPICAL FOR ALL SURFACE MOUNTED RACEWAYS ON THIS SHEET UNLESS NOTED OTHERWISE.
7. NEW WIRELESS PROJECTOR LOCATION. OWNER TO PROVIDE AND INSTALL PROJECTOR. PROVIDE DUPLEX RECEPTACLE AND DATA OUTLET MOUNTED TO OWNER PROVIDED PROJECTOR PLATE. PROVIDE 2-CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. TYPICAL FOR ALL CEILING MOUNTED RECEPTACLES ON THIS SHEET UNLESS NOTED OTHERWISE. PROJECTOR RECEPTACLE TO BE EXCLUDED FROM SWITCHED RELAY CONTROL.
8. PROVIDE 4 GANG FLUSH FLOOR BOX EQUAL TO LEGRAND EVOLUTION SERIES #EFB45 HOUSING WITH (2) DUPLEX RECEPTACLES, (1) DATA OUTLET, (1) BLANK FACEPLATE, #EFB45BTAA FLUSH STYLE COVER, AND #EFB45-CTR RING. PROVIDE 2-CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES. TYPICAL FOR ALL FLOOR BOXES ON THIS SHEET UNLESS NOTED OTHERWISE.
9. PROVIDE 4 GANG FLUSH WALL BOX EQUAL TO LEGRAND EVOLUTION SERIES #EFSB4 HOUSING WITH (1) DUPLEX RECEPTACLE, (1) DATA OUTLET, (2) BLANK DEVICE PLATES, AND #EFSC FLUSH STYLE COVER. PROVIDE 2-CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. COORDINATE PAINTING OF TRIM FLANGE AND COVER WITH ARCHITECTURAL TRADES. COORDINATE EXACT LOCATION WITH ARCHITECTURAL TRADES.
10. PROVIDE HAND DRYER EQUAL TO WORLD DRYER VERDEdri #0-974A. PROVIDE BRANCH CIRCUITRY AS INDICATED, MOUNT AT HEIGHT RECOMMENDED BY MANUFACTURER.
11. DEVICE TO BE MOUNTED IN CASEWORK. COORDINATE LOCATION WITH CASEWORK INSTALLER.
12. NEW CARD READER TO BE PROVIDED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE OUTDOOR RATED, SINGLE GANG, DEEP BOX, AT 44" A.F.F. WITH 3/4" CONDUIT STUB TO JUNCTION BOX ABOVE CORRIDOR CEILING SPACE. PROVIDE 1-CATEGORY 6 CABLE FROM JUNCTION BOX TO NETWORK TERMINATION RACK IN IT ROOM. TYPICAL FOR ALL CARD READERS ON THIS SHEET UNLESS NOTED OTHERWISE.
13. CONNECT DOOR STRIKE PROVIDED BY DOOR HARDWARE SUPPLIER TO EXISTING BUILDING ACCESS CONTROL SYSTEM. PROVIDE ALL REQUIRED WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM. TYPICAL FOR ALL DOOR STRIKES ON THIS SHEET UNLESS NOTED OTHERWISE.
14. MOUNT DEVICES AT 84" A.F.F.
15. EXISTING SIMPLEX FIRE ALARM CONTROL PANEL (FACP) TO REMAIN. PROVIDE NEW PANEL TO SUPPORT ALL NEW VOICE ANNUNCIATION STYLE FIRE ALARM DEVICES IN ADDITION AREA. TIE NEW PANEL INTO EXISTING FIRE ALARM CONTROL PANEL/ SYSTEM.
16. INSTALL OWNER PROVIDED NETWORK RACKS AND UPS, COORDINATE EXACT LOCATION WITH OWNER.
17. PROVIDE SINGLE GANG, DEEP BOX, WITH 3/4" CONDUIT STUB TO CORRIDOR CEILING SPACE. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. PROVIDE 4-CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL DATA OUTLETS IN THIS ROOM.
18. PROVIDE SINGLE GANG, DEEP BOX, LOCATED 12" A.F.F. AND APPROXIMATELY 6"-8" FROM DOOR WITH (1) 1/2" CONDUIT TO ABOVE CEILING FOR "SMARTBOOT" WIRING BY OTHERS.
19. RELOCATED SIMPLEX FIRE ALARM SYSTEM ANNUNCIATOR PANEL.
20. ALL DUPLEX RECEPTACLES IN THIS ROOM/SPACE SHALL HAVE THE TOP RECEPTACLE AUTOMATICALLY CONTROLLED TO COMPLY WITH THE 2021 MICHIGAN ENERGY CODE. THE TOP RECEPTACLE SHALL BE LABELED "CONTROLLED" FROM THE FACTORY. EACH CONTROLLED RECEPTACLE CIRCUIT SHALL BE SWITCHED VIA (1) RELAY SWITCHPACK MOUNTED ABOVE THE CEILING. THE RECEPTACLE RELAY SWITCHPACK(S) SHALL BE CONNECTED, VIA CAT6, TO THE LIGHTING SWITCHPACK(S) IN THE SPACE. THE LIGHTING OCCUPANCY SENSORS SHALL ALSO CONTROL THESE SWITCHED RECEPTACLES. SEE LIGHTING PLANS FOR OCCUPANCY SENSOR AND RELAY SWITCHPACK LOCATIONS.
21. PROVIDE WAVELINX RELAY/SWITCHPACK #RSP-C-010-Z, OR APPROVED EQUAL, TO CONTROL CONTROLLED RECEPTACLES IN THIS ROOM/AREA.
22. PROVIDE CONNECTION TO RELOCATED UPS PER MANUFACTURER'S REQUIREMENTS.
23. EXHAUST FAN TO BE CONTROLLED BY LIGHT SWITCH.
24. PROVIDE 20A/1P DISCONNECT SWITCH (TOGGLE STYLE) MOUNTED NEAR PUMP P-3.
25. PROVIDE NEW SIMPLEX FIRE ALARM SYSTEM VOICE PANEL MODEL #4100ES, TIE INTO EXISTING SIMPLEX FIRE ALARM SYSTEM PER MANUFACTURER'S REQUIREMENTS.
26. PROVIDE FIRE ALARM SYSTEM CONNECTION TO ROLLING FIRE DOOR AS REQUIRED.
27. PROVIDE POWER AND CONTROL WIRING FOR OVERHEAD COILING DOOR PER MANUFACTURER'S REQUIREMENTS.
28. PROVIDE SINGLE GANG DEEP BOX WITH 1/2" CONDUIT TO ABOVE CEILING SPACE FOR FUTURE DATA CABLING. PROVIDE BLANK COVERPLATE.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRMINGHAM OFFICE:
380 N. OLD WOODWARD AVE., SUITE 606
BIRMINGHAM, MI 48018
PHONE: (810)225-2701
FAX: (810)225-4787

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

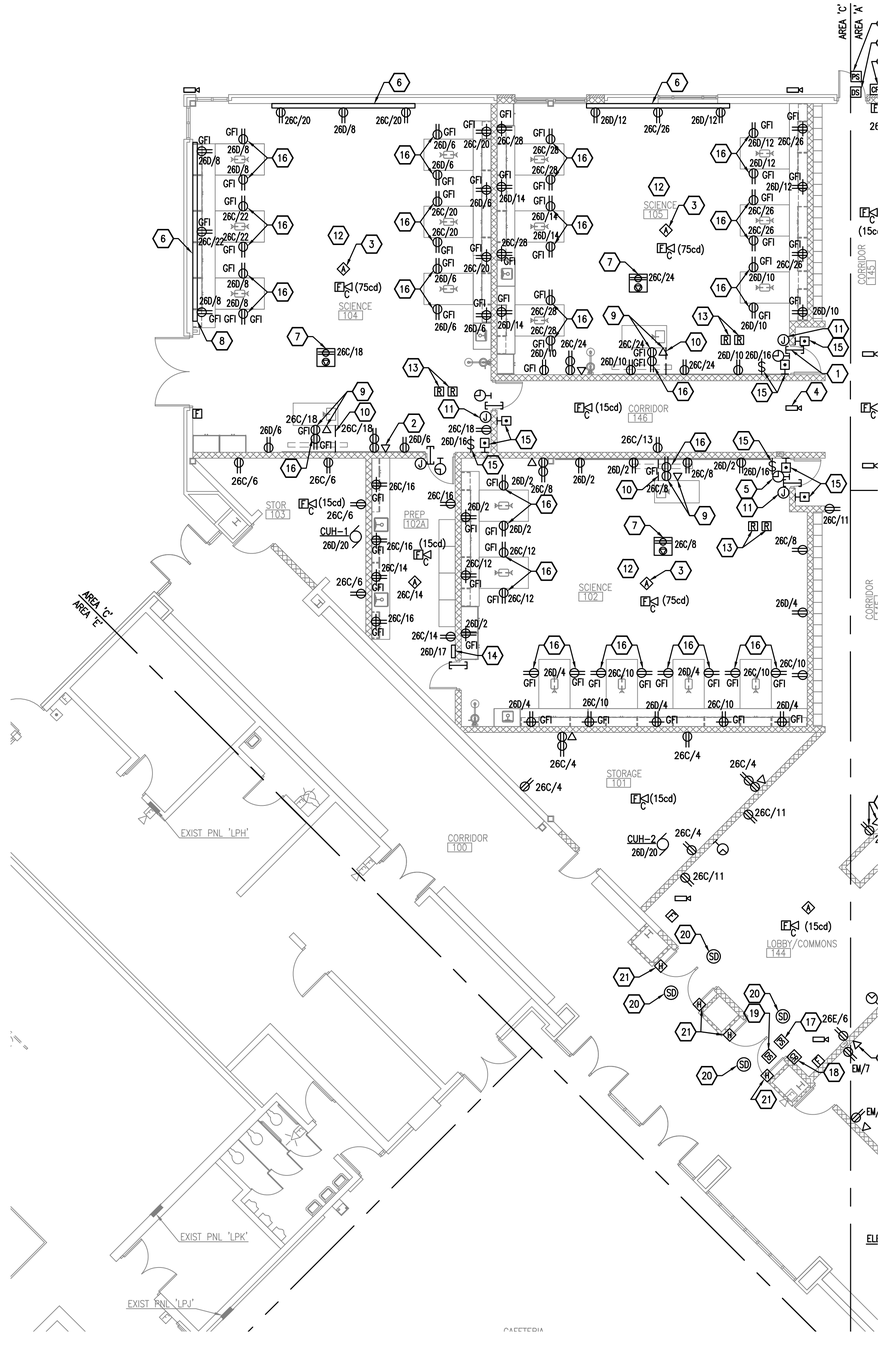
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
NEW WORK POWER PLAN
AREA 'B'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

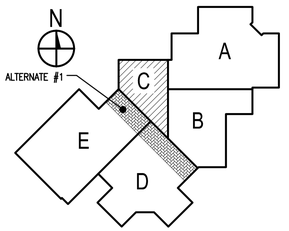
E3.1



ELECTRICAL NEW WORK POWER PLAN - AREA 'C'

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

KEY PLAN



GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. ALL NEW RECEPTACLE DEVICES SHALL BE TAMPER RESISTANT (TR) TYPE. NOTIFY ARCHITECT/ENGINEER OF ANY IN FIELD OBSTRUCTIONS THAT INTERFERE WITH LOCATIONS OF NEW RECEPTACLES AND COORDINATE WORK AS REQUIRED.
6. REFER TO SHEET E3.0 FOR ELECTRICAL SYMBOL LEGEND.
7. ALL NEW FIRE ALARM DEVICES ON THESE DRAWINGS TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
8. A DIFFERED SUBMITTAL FOR FIRE ALARM SYSTEM SHALL BE SENT TO BCC FOR REVIEW ONCE BIDS FOR PROJECT HAVE BEEN RECEIVED AND CONTRACT(S) AWARDED. THE INSTALLING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DESIGN MINIMUM AUDIBILITY LEVEL FOR OCCUPANT NOTIFICATION, BATTERY AND VOLTAGE DROP CALCULATIONS AND OTHER ITEMS SPECIFIC TO THE SYSTEM BEING INSTALLED ON THIS PROJECT.
9. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.
10. PROVIDE FIRE SEALANTS AT 2 HOUR WALL PENETRATIONS PER SPECIFICATIONS, SEE SHEET A0.0 FOR WALL PARTITION LOCATIONS.

KEYNOTES

1. PROVIDE (1) 2" CONDUIT STUB THROUGH WALL ABOVE CEILING FOR DATA/COMMUNICATION CABLING. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. TYPICAL FOR ALL CONDUIT SLEEVES ON THIS SHEET UNLESS NOTED OTHERWISE.
2. PROVIDE SINGLE GANG, DEEP BOX, WITH 3/4" CONDUIT STUB TO CORRIDOR CEILING SPACE. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. PROVIDE 2–CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL DATA OUTLETS ON THIS SHEET UNLESS NOTED OTHERWISE.
3. NEW WIRELESS ACCESS POINT ANTENNA LOCATION. ANTENNA PROVIDED AND INSTALLED BY OWNER. PROVIDE 1–CATEGORY 6 CABLE FROM ANTENNA LOCATION TO NETWORK TERMINATION RACK IN IT ROOM. PROVIDE 10' SLACK CABLE AT LOCATION COILED NEATLY ABOVE ACCESSIBLE CEILING SPACE. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL WIRELESS ACCESS POINTS ON THIS SHEET UNLESS NOTED OTHERWISE.
4. NEW IP SECURITY CAMERA LOCATION. CAMERA PROVIDED AND INSTALLED BY OWNER. PROVIDE 1–CATEGORY 6 CABLE FROM CAMERA LOCATION TO NETWORK TERMINATION RACK IN IT ROOM. LEAVE 10' OF SLACK CABLE COILED NEATLY ABOVE CEILING SPACE. TERMINATE BOTH ENDS PER SPECIFICATIONS. TYPICAL FOR ALL SECURITY CAMERAS ON THIS SHEET UNLESS NOTED OTHERWISE.
5. NEW CLOCK LOCATION. CLOCK TO BE PROVIDED AND INSTALLED BY OWNER. PROVIDE SINGLE GANG, DEEP BOX, WITH 3/4" CONDUIT STUB TO CORRIDOR CEILING SPACE FOR CLOCK. PROVIDE 1–CATEGORY 6 CABLE FROM DEEP BOX TO NETWORK TERMINATION RACK IN IT ROOM. LEAVE 5' OF SLACK CABLE COILED NEATLY ABOVE CEILING SPACE. PROVIDE PLASTIC BUSHINGS ON CONDUIT ENDS. TERMINATE BOTH ENDS PER SPECIFICATIONS. PROVIDE BLANK COVER PLATE. TYPICAL FOR ALL CLOCKS ON THIS SHEET UNLESS NOTED OTHERWISE.
6. PROVIDE LEGRAND WIREMOLD 2000 SERIES OR EQUAL MULTI–OUTLET RACEWAY SYSTEM. RACEWAY LENGTH TO MATCH THAT SHOWN ON DRAWINGS. TYPICAL FOR ALL SURFACE MOUNTED RACEWAYS ON THIS SHEET UNLESS NOTED OTHERWISE.
7. NEW WIRELESS PROJECTOR LOCATION. OWNER TO PROVIDE AND INSTALL PROJECTOR. PROVIDE DUPLEX RECEPTACLE AND DATA OUTLET MOUNTED TO OWNER PROVIDED PROJECTOR PLATE. PROVIDE 2–CATEGORY 6 (DATA) CABLES FROM OUTLET TO NETWORK TERMINATION RACK IN IT ROOM. TYPICAL FOR ALL CEILING MOUNTED RECEPTACLES ON THIS SHEET UNLESS NOTED OTHERWISE. PROJECTOR RECEPTACLE TO BE EXCLUDED FROM SWITCHED RELAY CONTROL.
8. MOUNT RACEWAY 8" ABOVE COUNTERTOP TO CENTER.
9. DEVICE TO BE MOUNTED IN CASEWORK. COORDINATE LOCATION WITH CASEWORK INSTALLER.
10. RUN CONDUITS CARRYING POWER AND DATA ALONG TRENCH FOR GAS AND PLUMBING.
11. PROVIDE SINGLE GANG, DEEP BOX, LOCATED 12" A.F.F. AND APPROXIMATELY 6"–8" FROM DOOR WITH (1) 1/2" CONDUIT TO ABOVE CEILING FOR "SMARTBOOT" WIRING BY OTHERS.
12. ALL DUPLEX RECEPTACLES IN THIS ROOM/SPACE SHALL HAVE THE TOP RECEPTACLE AUTOMATICALLY CONTROLLED TO COMPLY WITH THE 2021 MICHIGAN ENERGY CODE. THE TOP RECEPTACLE SHALL BE LABELED "CONTROLLED" FROM THE FACTORY. EACH CONTROLLED RECEPTACLE CIRCUIT SHALL BE SWITCHED VIA (1) RELAY SWITCHPACK MOUNTED ABOVE THE CEILING. THE RECEPTACLE RELAY SWITCHPACK(S) SHALL BE CONNECTED, VIA CAT6, TO THE LIGHTING SWITCHPACK(S) IN THE SPACE. THE LIGHTING OCCUPANCY SENSORS SHALL ALSO CONTROL THESE SWITCHED RECEPTACLES. SEE LIGHTING PLANS FOR OCCUPANCY SENSOR AND RELAY SWITCHPACK LOCATIONS.
13. PROVIDE WAVELINX RELAY/SWITCHPACK #RSP–C–010–Z, OR APPROVED EQUAL, TO CONTROL CONTROLLED RECEPTACLES IN THIS ROOM/AREA.
14. PROVIDE ELECTRICAL CONNECTION TO ACID WASTE CONTROL PANEL PER MANUFACTURER'S REQUIREMENTS.
15. PROVIDE ELECTRICAL CONNECTION TO GAS SOLENOID VALVE SHUT–OFF SWITCHES, BY OTHERS, PER MANUFACTURER'S REQUIREMENTS.
16. PROVIDE ELECTRICAL CONNECTION TO LAB FURNITURE PROVIDED GFI RECEPTACLE DEVICE WITH BRANCH CIRCUITRY INDICATED.
17. CONNECT POSITION SWITCH PROVIDED BY DOOR HARDWARE SUPPLIER TO BUILDING'S SECURITY SYSTEM. PROVIDE ALL REQUIRED WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM. TYPICAL FOR ALL DOOR POSITION SWITCHES ON THIS SHEET UNLESS NOTED OTHERWISE. CONTACT PERSON CLAY CROST, SONITROL GREAT LAKES CCROST@SOLUCIENTSECURITY.COM.
18. NEW CARD READER TO BE PROVIDED BY OWNER, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE OUTDOOR RATED, SINGLE GANG, DEEP BOX, AT 44" A.F.F. WITH 3/4" CONDUIT STUB TO JUNCTION BOX ABOVE CORRIDOR CEILING SPACE. PROVIDE 1–CATEGORY 6 CABLE FROM JUNCTION BOX TO NETWORK TERMINATION RACK IN IT ROOM. TYPICAL FOR ALL CARD READERS ON THIS SHEET UNLESS NOTED OTHERWISE.
19. CONNECT DOOR STRIKE PROVIDED BY DOOR HARDWARE SUPPLIER TO EXISTING BUILDING ACCESS CONTROL SYSTEM. PROVIDE ALL REQUIRED WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM. TYPICAL FOR ALL DOOR STRIKES ON THIS SHEET UNLESS NOTED OTHERWISE.
20. PROVIDE NEW FIRE ALARM SYSTEM SMOKE DETECTOR DEVICE TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM TO CONTROL DOOR HOLD OPEN DEVICES. PROVIDE ALL NECESSARY BOXES, DEVICES, HARDWARE, PROGRAMMING, TESTING, ETC FOR A COMPLETE AND PROPER INSTALLATION.
21. PROVIDE NEW FIRE ALARM SYSTEM DOOR HOLD OPEN DEVICE TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY BOXES, DEVICES, HARDWARE, PROGRAMMING, TESTING, ETC FOR A COMPLETE AND PROPER INSTALLATION.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BRIGHTON OFFICE:
7125 ORCHARD LAKE AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-4767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

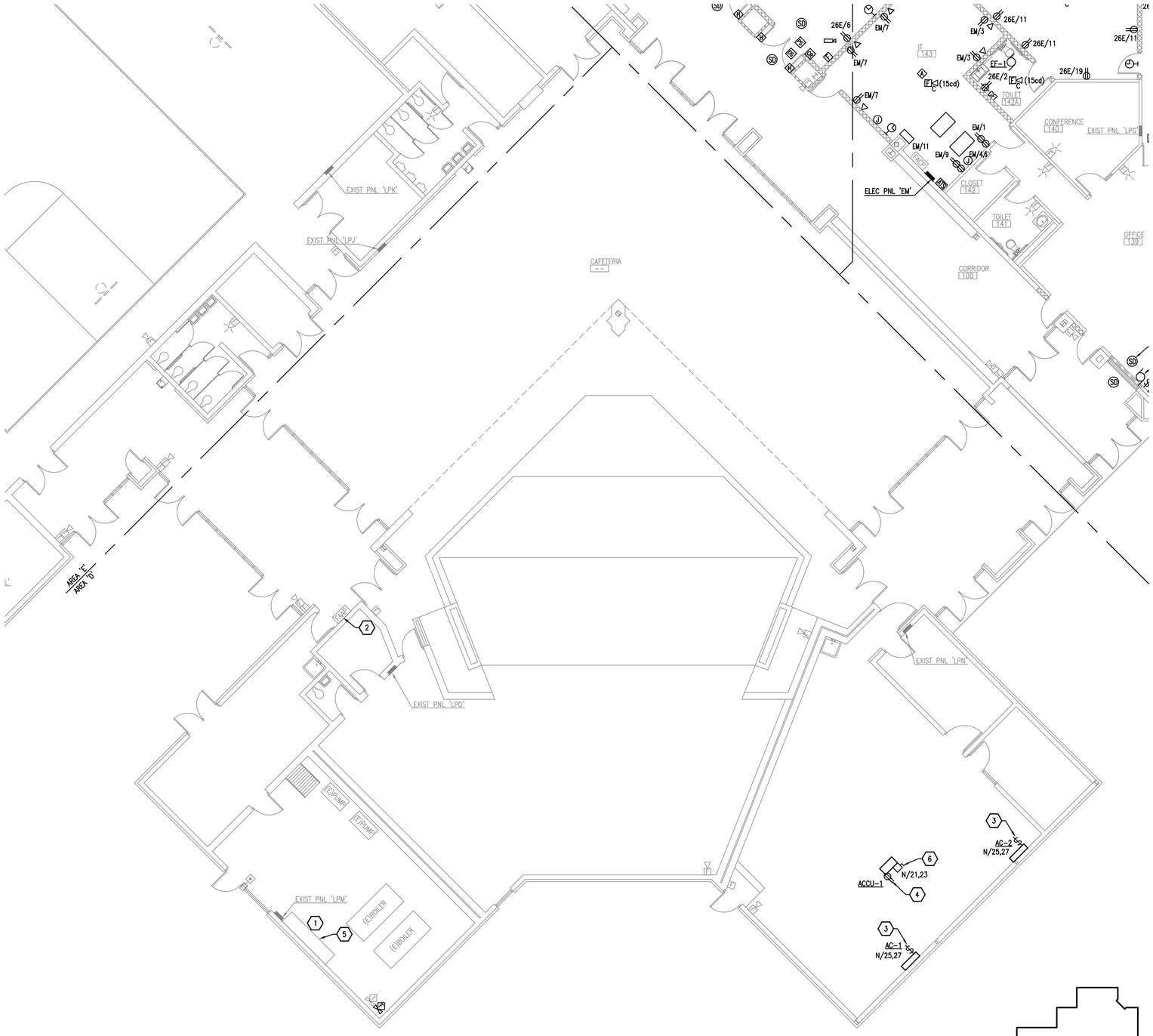
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY
DESIGN	SNS
DRAWN	SNS
CHECKED	BAD
APPROVED	BAD

ELECTRICAL
NEW WORK POWER PLAN
AREA 'C'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E3.2



ELECTRICAL NEW WORK POWER PLAN - AREA 'D'

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

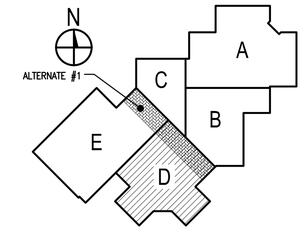
KEYNOTES

1. EXISTING MAIN DISTRIBUTION PANEL.
2. EXISTING SIMPLEX FIRE ALARM SYSTEM ANNUNCIATOR PANEL.
3. PROVIDE 20A/2P, NON-FUSED DISCONNECT (TOGGLE STYLE) SWITCH, MOUNT ON OR NEAR FAN COIL UNIT. PROVIDE BRANCH CIRCUITRY AS INDICATED.
4. PROVIDE WEATHERPROOF GFI TYPE RECEPTACLE, MOUNT ON OR NEAR ROOFTOP EQUIPMENT.
5. PROVIDE (3) 30A FUSES IN EXISTING SPARE 150A/3P SWITCH MADE AVAILABLE BY DEMOLITION, LOCATED IN EXISTING MAIN DISTRIBUTION PANEL (MDP) TO CONNECT TO NEW SURGE PROTECTION DEVICE. PROVIDE NEW SPD PER SPECIFICATIONS MOUNTED ABOVE OR ALONG SIDE EXISTING MDP.
6. PROVIDE 60A/2P, NEMA 3R, 240V, NON FUSED DISCONNECT SWITCH MOUNTED ON OR NEAR ROOF MOUNTED UNIT. PROVIDE BRANCH CIRCUITRY AS INDICATED.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. ALL NEW RECEPTACLE DEVICES SHALL BE TAMPER RESISTANT (TR) TYPE. NOTIFY ARCHITECT/ENGINEER OF ANY IN FIELD OBSTRUCTIONS THAT INTERFERE WITH LOCATIONS OF NEW RECEPTACLES AND COORDINATE WORK AS REQUIRED.
6. REFER TO SHEET E3.0 FOR ELECTRICAL SYMBOL LEGEND.
7. ALL NEW FIRE ALARM DEVICES ON THESE DRAWINGS TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
8. A DIFFERED SUBMITTAL FOR FIRE ALARM SYSTEM SHALL BE SENT TO BCC FOR REVIEW ONCE BIDS FOR PROJECT HAVE BEEN RECEIVED AND CONTRACT(S) AWARDED. THE INSTALLING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DESIGN MINIMUM AUDIBILITY LEVEL FOR OCCUPANT NOTIFICATION, BATTERY AND VOLTAGE DROP CALCULATIONS AND OTHER ITEMS SPECIFIC TO THE SYSTEM BEING INSTALLED ON THIS PROJECT.
9. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4484
FAX: (906)228-7324

BIRCH RUN OFFICE:
8311 MAIN STREET, SUITE 600
BIRCH RUN, MI 48415
PHONE: (810)229-2701
FAX: (810)229-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

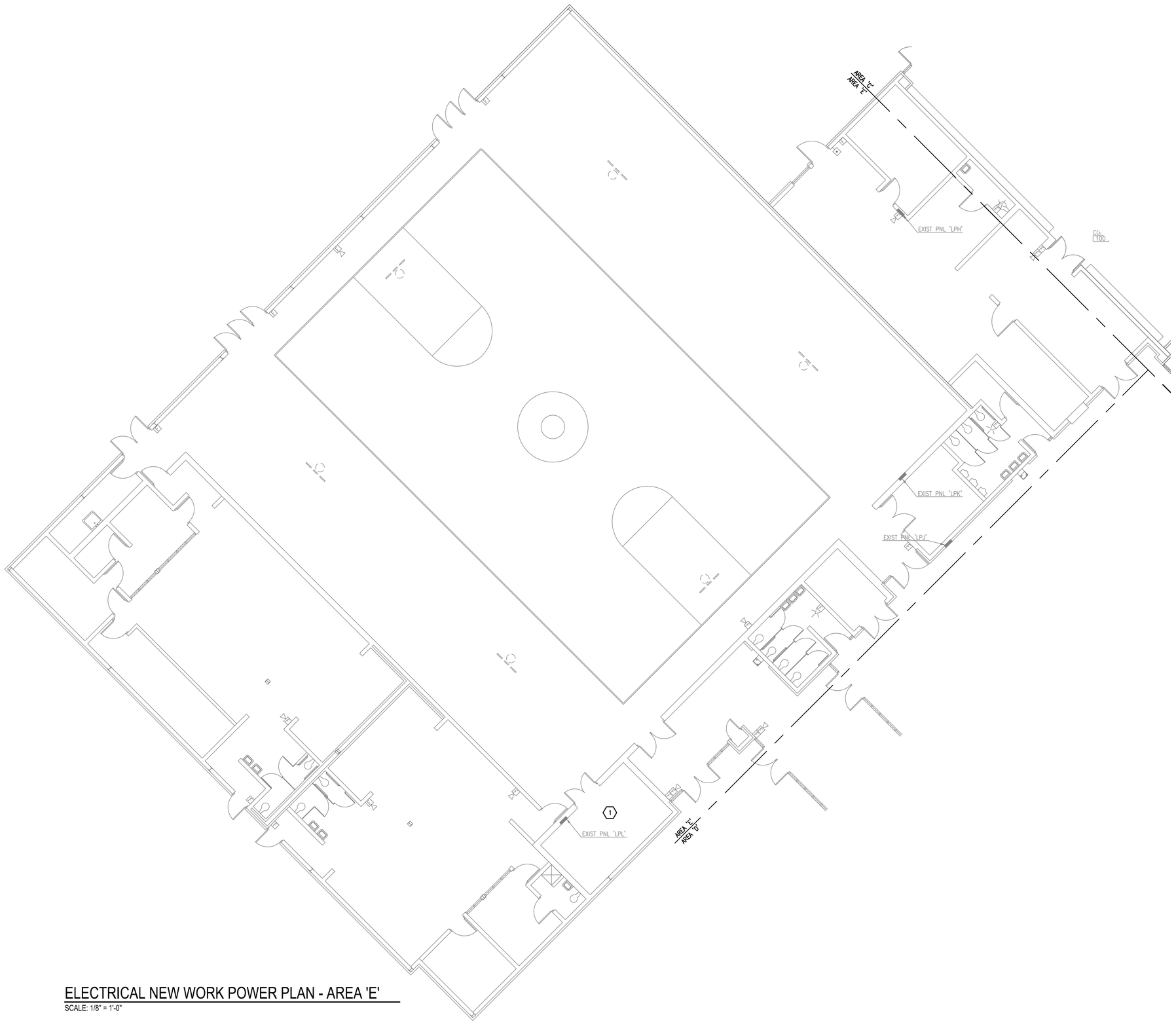
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
NEW WORK POWER PLAN
AREA 'D'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E3.3



ELECTRICAL NEW WORK POWER PLAN - AREA 'E'

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

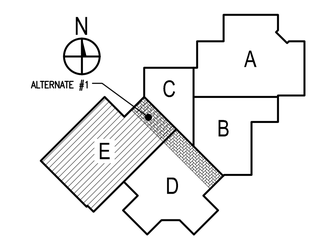
KEYNOTES

1. EXISTING DOOR SECURITY SYSTEM PANEL LOCATION.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. ALL NEW RECEPTACLE DEVICES SHALL BE TAMPER RESISTANT (TR) TYPE. NOTIFY ARCHITECT/ENGINEER OF ANY IN FIELD OBSTRUCTIONS THAT INTERFERE WITH LOCATIONS OF NEW RECEPTACLES AND COORDINATE WORK AS REQUIRED.
6. REFER TO SHEET E3.0 FOR ELECTRICAL SYMBOL LEGEND.
7. ALL NEW FIRE ALARM DEVICES ON THESE DRAWINGS TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
8. A DIFFERED SUBMITTAL FOR FIRE ALARM SYSTEM SHALL BE SENT TO BCC FOR REVIEW ONCE BIDS FOR PROJECT HAVE BEEN RECEIVED AND CONTRACT(S) AWARDED. THE INSTALLING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DESIGN MINIMUM AUDIBILITY LEVEL FOR OCCUPANT NOTIFICATION, BATTERY AND VOLTAGE DROP CALCULATIONS AND OTHER ITEMS SPECIFIC TO THE SYSTEM BEING INSTALLED ON THIS PROJECT.
9. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

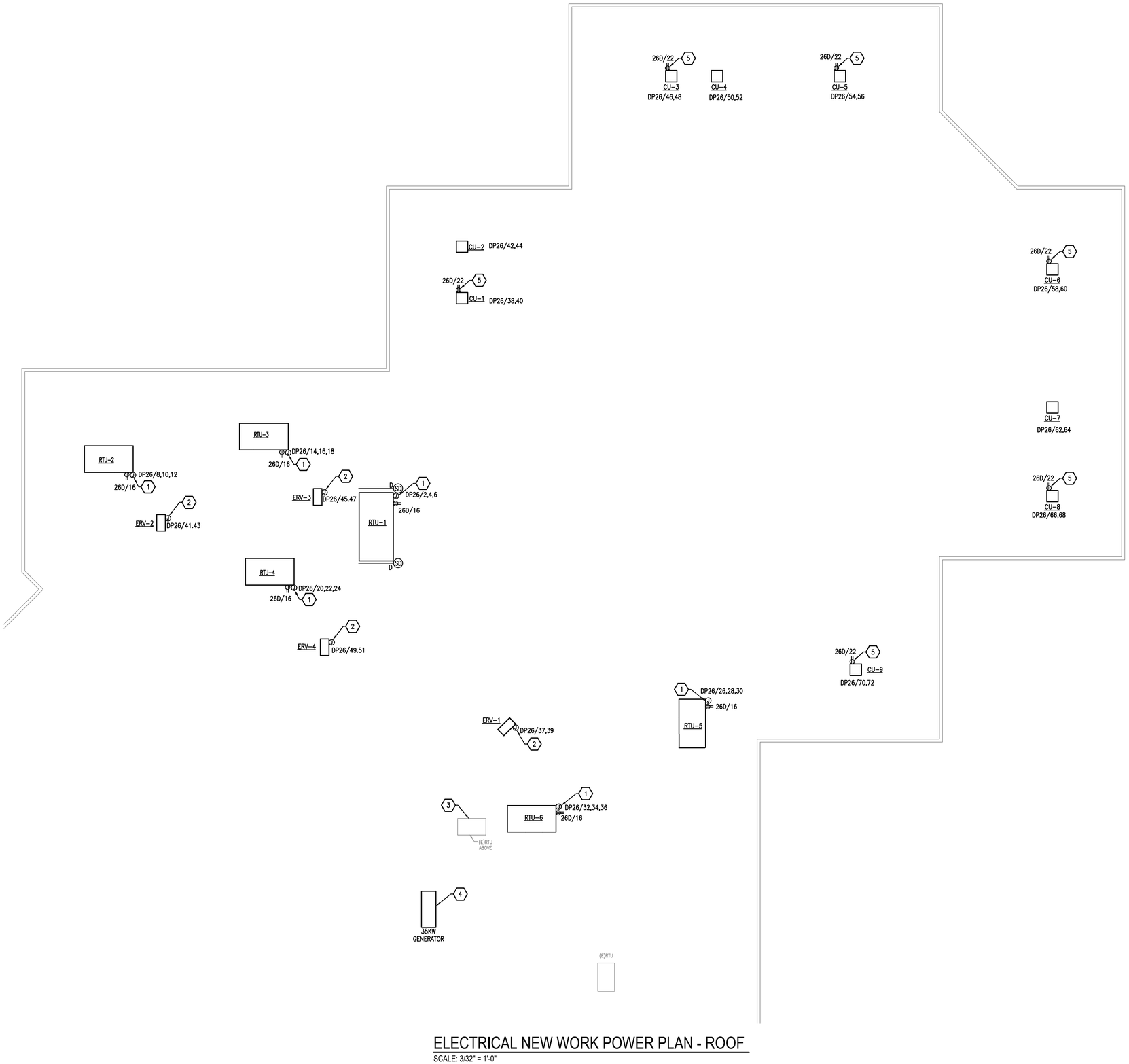
NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
NEW WORK POWER PLAN
AREA 'E'

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E3.4



ELECTRICAL NEW WORK POWER PLAN - ROOF

SCALE: 3/32" = 1'-0"

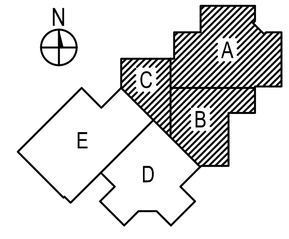
KEYNOTES

1. PROVIDE HARDWIRE CONNECTION INDICATED TO MECHANICAL UNITS MANUFACTURER PROVIDED INTEGRAL DISCONNECT SWITCH AND RECEPTACLE.
2. PROVIDE HARDWIRE CONNECTION INDICATED TO MECHANICAL UNITS MANUFACTURER PROVIDED INTEGRAL DISCONNECT SWITCH.
3. DISCONNECT EXISTING BRANCH CIRCUIT WIRING FROM EXISTING ELECTRICAL PANEL 'LPG' AND RECONNECT TO NEW ELECTRICAL PANEL 'EM'. EXTEND EXISTING WIRING AS REQUIRED. REVISE PANEL DIRECTORY.
4. PROVIDE 35kW GENERATOR WITH REMOTE SHUT-OFF. SEE RISER DIAGRAM, PANEL SCHEDULES AND SPECIFICATIONS FOR ADDITIONAL DETAILS.
5. PROVIDE WEATHERPROOF, GFCI RECEPTACLE MOUNTED ON OR NEAR ROOFTOP EQUIPMENT.

GENERAL NOTES

1. UNLESS NOTED OTHERWISE, ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH BOLD (DARK) LINES REPRESENT WORK TO BE PERFORMED. ALL LIGHTING, DEVICES, EQUIPMENT, CIRCUITRY, ETC. DENOTED WITH LIGHT (SCREENED) LINES REPRESENT EXISTING TO REMAIN AND BE MAINTAINED.
2. EXISTING CONDITIONS SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED FROM EXISTING DRAWINGS AND FIELD INSPECTIONS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS. REPORT DISCREPANCIES TO ARCHITECT/ENGINEER BEFORE DEMOLITION.
3. VERIFY WITH CONSTRUCTION ADMINISTRATION ELECTRICAL CONTRACTOR'S RESPONSIBILITY FOR PATCHING, PREPPING AND PAINTING EXISTING WALL SURFACES TO MATCH EXISTING WHERE DEVICES AND EQUIPMENT ARE REMOVED.
4. ALL NEW FEEDER AND BRANCH CIRCUIT CONDUIT AND WIRING SHALL BE RUN CONCEALED WITHIN EXISTING WALL CAVITIES OR ABOVE CEILINGS. EXPOSED RACEWAY ACCEPTABLE ONLY WHERE APPROVED BY OWNER, CONSTRUCTION MANAGER AND ENGINEER IN WHICH CASES WIREMOLD 700 (WHITE), OR EQUAL, SURFACE MOUNTED RACEWAY IS ACCEPTABLE. CONTRACTORS SHALL FIELD VERIFY EXISTING CONSTRUCTION CONDITIONS PRIOR TO BIDDING. REFER TO SHEET E0.0 FOR ELECTRICAL SYMBOL LEGEND.
5. ALL NEW RECEPTACLE DEVICES SHALL BE TAMPER RESISTANT (TR) TYPE. NOTIFY ARCHITECT/ENGINEER OF ANY IN FIELD OBSTRUCTIONS THAT INTERFERE WITH LOCATIONS OF NEW RECEPTACLES AND COORDINATE WORK AS REQUIRED.
6. REFER TO SHEET E3.0 FOR ELECTRICAL SYMBOL LEGEND.
7. ALL NEW FIRE ALARM DEVICES ON THESE DRAWINGS TO MATCH EXISTING SIMPLEX FIRE ALARM SYSTEM. PROVIDE ALL NECESSARY WIRING, DEVICES, PROGRAMMING, ETC. FOR A COMPLETE AND OPERABLE SYSTEM.
8. A DIFFERED SUBMITTAL FOR FIRE ALARM SYSTEM SHALL BE SENT TO BCC FOR REVIEW ONCE BIDS FOR PROJECT HAVE BEEN RECEIVED AND CONTRACT(S) AWARDED. THE INSTALLING CONTRACTOR SHALL PROVIDE SHOP DRAWINGS DESIGN MINIMUM AUDIBILITY LEVEL FOR OCCUPANT NOTIFICATION, BATTERY AND VOLTAGE DROP CALCULATIONS AND OTHER ITEMS SPECIFIC TO THE SYSTEM BEING INSTALLED ON THIS PROJECT.
9. ALL DEMOLITION AND NEW WORK FOR THE PUBLIC ADDRESS SYSTEM TO BE PROVIDED BY OWNER.

KEY PLAN



INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING
MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324
BIRGHTON OFFICE:
8137 GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-4797

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
A	SCHEMATIC DESIGN	04.28.25
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

ELECTRICAL
NEW WORK POWER PLAN
ROOF

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E3.5

PANELBOARD SCHEDULE
PANEL '26A'

200A, 120/208V, 3Ø, 4W, MLO, RECESS MTD, 42 POLE

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
RECEP – CLASSROOM 111	1.44	20/1	1A	2A	20/1	1.44	RECEP – CLASSROOM 109
RECEP – CLASSROOM 113	1.44	20/1	3B	4B	20/1	1.44	RECEP – CLASSROOM 108
RECEP – CLASSROOM 115	1.44	20/1	5C	6C	20/1	1.44	RECEP – CLASSROOM 107
RECEP – CLASSROOM 116	1.44	20/1	7A	8A	20/1	1.44	RECEP – CLASSROOM 106
RECEP – CLASSROOM 117	1.44	20/1	9B	10B	20/1	1.44	RECEP – CLASSROOM 110
RECEP – CLASSROOM 118	1.44	20/1	11C	12C	20/1	1.44	RECEP – CLASSROOM 122
RECEP – CLASSROOM 114	1.44	20/1	13A	14A	20/1	1.26	RECEP – CORRS.148,150
RECEP – CLASSROOM 120	1.44	20/1	15B	16B	15/1	.84	UNIT VENTS – RMS 109,111
RECEP – CLASSROOM 112	1.44	20/1	17C	18C	15/1	.84	UNIT VENTS – RMS 113,115
LTS – CLSRMS 109,111	1.03	20/1	19A	20A	15/1	.84	UNIT VENTS – RMS 116,117
LTS – CLSRMS 113,115	1.02	20/1	21B	22B	15/1	.84	UNIT VENTS – RMS 107,108
LTS – CLSRMS 116,117	1.03	20/1	23C	24C	20/1	.50	EWC
LTS – CLSRMS 114,118	1.03	20/1	25A	26A	20/1	–	SPARE
LTS – CLSRMS 112,120	1.03	20/1	27B	28B	20/1	–	SPARE
LTS – CLSRMS 110,122	.69	20/1	29C	30C	20/1	–	SPARE
LTS – CLSRMS 107,108	1.03	20/1	31A	32A	–	–	SPACE
LTS – CLSRM 106	.69	20/1	33B	34B	–	–	SPACE
LTS – CORRS 147,148,150, ENTRY	1.31	20/1	35C	36C	–	–	SPACE
SPACE	–	–	37A	38A	–	–	SPACE
SPACE	–	–	39B	40B	–	–	SPACE
SPACE	–	–	41C	42C	–	–	SPACE

DEMAND LOAD
35.58 KVA – 10.67 KVA = 24.91 KVA
24.91 KVA ÷ [(208V)(√3) ÷ 1000] = 69.14 A

CONNECTED LOAD
PHASE A 12.39 KVA
PHASE B 11.62 KVA
PHASE C 11.57 KVA
TOTAL 35.58 KVA
35.58 KVA ÷ [(208V)(√3) ÷ 1000] = 98.76 A

PANELBOARD SCHEDULE
PANEL '26B'

100A, 120/208V, 3Ø, 4W, MLO, RECESS MTD, 30 POLE

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
RECEP – CLASSROOM 111	1.44	20/1	1A	2A	20/1	1.08	RECEP – CLASSROOM 109
RECEP – CLASSROOM 113	1.26	20/1	3B	4B	20/1	1.44	RECEP – CLASSROOM 108
RECEP – CLASSROOM 115	1.26	20/1	5C	6C	20/1	1.44	RECEP – CLASSROOM 107
RECEP – CLASSROOM 116	1.08	20/1	7A	8A	20/1	1.08	RECEP – CLASSROOM 106
RECEP – CLASSROOM 117	1.26	20/1	9B	10B	20/1	.90	RECEP – CLASSROOM 110
RECEP – CLASSROOM 118	.90	20/1	11C	12C	20/1	.90	RECEP – CLASSROOM 122
RECEP – CLASSROOM 114	.90	20/1	13A	14A	20/1	.41	CUH–3
RECEP – CLASSROOM 120	.90	20/1	15B	16B	20/1	–	FIRE ALARM DAMPERS
RECEP – CLASSROOM 112	.90	20/1	17C	18C	20/1	–	SPARE
SPARE	–	20/1	19A	20A	20/1	–	SPARE
SPACE	–	–	21B	22B	–	–	SPACE
SPACE	–	–	23C	24C	–	–	SPACE
SPACE	–	–	25A	26A	–	–	SPACE
SPACE	–	–	27B	28B	–	–	SPACE
SPACE	–	–	29C	30C	–	–	SPACE

DEMAND LOAD
17.15 KVA – 5.14 KVA = 12.01 KVA
12.01 KVA ÷ [(208V)(√3) ÷ 1000] = 33.34 A

CONNECTED LOAD
PHASE A 5.99 KVA
PHASE B 5.76 KVA
PHASE C 5.40 KVA
TOTAL 17.15 KVA
17.15 KVA ÷ [(208V)(√3) ÷ 1000] = 47.60 A

PANELBOARD SCHEDULE
PANEL '26C'

200A, 120/208V, 3Ø, 4W, MLO, SURF. MTD, 42 POLE

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
RECEP – CLASSROOM 119	1.26	20/1	1A	2A	20/1	.72	RECEP – MENS 126, WOMENS 127
RECEP – MEDIA CENTER 121	1.44	20/1	3B	4B	20/1	1.26	RECEP – STORAGE 101
RECEP – MEDIA CENTER 121	1.08	20/1	5C	6C	20/1	.72	RECEP – STORAGE 106
RECEP – MEDIA CENTER 121	.90	20/1	7A	8A	20/1	1.26	RECEP – SCIENCE 102
RECEP – MEDIA CENTER 121 FLOOR	1.08	20/1	9B	10B	20/1	1.26	RECEP – SCIENCE 102
RECEP – CORRS 151, 144	1.44	20/1	11C	12C	20/1	.54	RECEP – SCIENCE 102
RECEP – STAFF, STOR. JAN., EF	1.12	20/1	13A	14A	20/1	.90	RECEP – PREP 102A
RECEP – CONF. 124	.90	20/1	15B	16B	20/1	.72	RECEP – PREP 104A
EWC	.50	20/1	17C	18C	20/1	1.26	RECEP – SCIENCE 104
RECEP – ROOFTOP EQUIP.	1.26	20/1	19A	20A	20/1	1.08	RECEP – SCIENCE 104
HAND DRYER – MEN	.97	20/1	21B	22B	20/1	.54	RECEP – SCIENCE 104
HAND DRYER – MEN	.97	20/1	23C	24C	20/1	1.08	RECEP – SCIENCE 105
HAND DRYER – WOMEN	.97	20/1	25A	26A	20/1	.90	RECEP – SCIENCE 105
HAND DRYER – WOMEN	.97	20/1	27B	28B	20/1	1.08	RECEP – SCIENCE 105
LTG – SCIENCE 104,105	1.20	20/1	29C	30C	20/1	.64	LTG – CONF 124,MENS,WOMENS,STAFF 142
LTG – CORRS 145,146,151	1.03	20/1	31A	32A	20/1	.65	LTG – CLASSROOM 119
LTG – RMS 101,102,102A,104A	1.14	20/1	33B	34B	20/1	1.19	LTG – MEDIA 121
EWC	.50	20/1	35C	36C	20/1	.27	LTG – MEDIA 121
SPACE	–	–	37A	38A	–	–	SPACE
SPACE	–	–	39B	40B	–	–	SPACE
SPACE	–	–	41C	42C	–	–	SPACE

DEMAND LOAD
34.80 KVA – 10.44 KVA = 24.36 KVA
24.36 KVA ÷ [(208V)(√3) ÷ 1000] = 67.62 A

CONNECTED LOAD
PHASE A 12.05 KVA
PHASE B 12.55 KVA
PHASE C 10.20 KVA
TOTAL 34.80 KVA
34.80 KVA ÷ [(208V)(√3) ÷ 1000] = 96.60 A

PANELBOARD SCHEDULE
PANEL '26D'

100A, 120/208V, 3Ø, 4W, MLO, SURF. MTD, 30 POLE

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
RECEP – CLASSROOM 119	1.44	20/1	1A	2A	20/1	1.26	RECEP – SCIENCE 102
RECEP – MEDIA CENTER 121	.90	20/1	3B	4B	20/1	1.44	RECEP – SCIENCE 102
RECEP – MEDIA CENTER 121	1.08	20/1	5C	6C	20/1	1.44	RECEP – SCIENCE 104
RECEP – MEDIA CENTER 121	.54	20/1	7A	8A	20/1	1.26	RECEP – SCIENCE 104
RECEP – CONF. 124	.54	20/1	9B	10B	20/1	1.08	RECEP – SCIENCE 105
RECEP – LOBBY 144	.36	20/1	11C	12C	20/1	.90	RECEP – SCIENCE 105
PUMP P–3	.58	20/1	13A	14A	20/1	.72	RECEP – SCIENCE 105
LTG – PENTHOUSE	.14	20/1	15B	16B	20/1	1.08	RECEP – ROOFTOP EQUIPMENT
ACID WASTE CONTROL PANEL	1.00	20/1	17C	18C	20/1	.10	GAS SHUT–OFF SOLENOIDS
SEWAGE LIFT STATION	2.00	30/3	19A	20A	15/1	.82	CUH–1, CUH–2
SEWAGE LIFT STATION	2.00	–	21B	22B	20/1	1.08	RECEP – ROOFTOP EQUIPMENT
SEWAGE LIFT STATION	2.00	–	23C	24C	20/1	–	SPARE
SPACE	–	–	25A	26A	–	–	SPACE
SPACE	–	–	27B	28B	–	–	SPACE
SPACE	–	–	29C	30C	–	–	SPACE

DEMAND LOAD
23.76 KVA – 7.13 KVA = 16.63 KVA
16.63 KVA ÷ [(208V)(√3) ÷ 1000] = 46.16 A

CONNECTED LOAD
PHASE A 8.62 KVA
PHASE B 8.26 KVA
PHASE C 6.88 KVA
TOTAL 23.76 KVA
23.76 KVA ÷ [(208V)(√3) ÷ 1000] = 63.95 A

PANELBOARD SCHEDULE
PANEL '26E'

200A, 120/208V, 3Ø, 4W, MLO, RECESS MTD, 42 POLE

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
RECEP – OFFICE 128	1.08	20/1	1A	2A	20/1	.18	RECEP – TLT 142A, EF
RECEP – CONF. 129	.72	20/1	3B	4B	20/1	1.26	RECEP – STOR,FILES 134, CORR 135
RECEP – OFFICE 132	.90	20/1	5C	6C	20/1	.72	RECEP – LOBBY 144 EAST
RECEP – OFFICE 133	.90	20/1	7A	8A	20/1	1.08	LTG – RMS 128,129,130,131,132,133,134
RECEP – CONF. 131	1.08	20/1	9B	10B	20/1	36	RECEP – OFFICE 133
RECEP – STAFF 142	.54	20/1	11C	12C	20/1	.54	RECEP – OFFICE 128
RECEP – STAFF 142 COUNTER	.18	20/1	13A	14A	20/1	.72	RECEP – CONF. 129
RECEP – STAFF 142 REFRIGERATOR	.18	20/1	15B	16B	20/1	.36	RECEP – OFFICE 132
RECEP – CONF. 131	.72	20/1	17C	18C	20/1	.67	FIRE SHUTTER
RECEP – STAFF 142	.72	20/1	19A	20A	20/1	–	SPARE
SPARE	–	20/1	21B	22B	20/1	–	SPARE
SPARE	–	20/1	23C	24C	20/1	–	SPARE
SPACE	–	–	25A	26A	–	–	SPACE
SPACE	–	–	27B	28B	–	–	SPACE
SPACE	–	–	29C	30C	–	–	SPACE
SPACE	–	–	31A	32A	–	–	SPACE
SPACE	–	–	33B	34B	–	–	SPACE
SPACE	–	–	35C	36C	–	–	SPACE
SPACE	–	–	37A	38A	–	–	SPACE
SPACE	–	–	39B	40B	–	–	SPACE
SPACE	–	–	41C	42C	–	–	SPACE

DEMAND LOAD
13.91 KVA – 3.67 KVA = 8.57 KVA
8.67 KVA ÷ [(208V)(√3) ÷ 1000] = 23.79 A

CONNECTED LOAD
PHASE A 4.86 KVA
PHASE B 3.96 KVA
PHASE C 4.09 KVA
TOTAL 13.91 KVA
13.91 KVA ÷ [(208V)(√3) ÷ 1000] = 35.83 A

PANELBOARD SCHEDULE
PANEL 'N'

225A, 120/208V, 3Ø, 4W, MLO, RECESS MTD, 42 POLE (EXISTING)

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
EXISTING CIRCUITRY	–	20/1	1A	2A	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	3B	4B	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	5C	6C	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	7A	8A	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	9B	10B	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	11C	12C	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	13A	14A	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	15B	16B	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	17C	18C	20/1	–	EXISTING CIRCUITRY
EXISTING CIRCUITRY	–	20/1	19A	20A	–	–	SPACE
ACCU–1	–	40/2 *	21B	22B	–	–	SPACE
ACCU–1	–	–	23C	24C	–	–	SPACE
AC–1, AC–2	.72	15/2 *	25A	26A	–	–	SPACE
AC–1, AC–2	.72	–	27B	28B	–	–	SPACE
SPACE	–	–	29C	30C	–	–	SPACE
SPACE	–	–	31A	32A	–	–	SPACE
SPACE	–	–	33B	34B	–	–	SPACE
SPACE	–	–	35C	36C	–	–	SPACE
SPACE	–	–	37A	38A	–	–	SPACE
SPACE	–	–	39B	40B	–	–	SPACE
SPACE	–	–	41C	42C	–	–	SPACE

* PROVIDE NEW BRANCH CIRCUIT BREAKER TO MATCH EXISTING PANEL.

PANELBOARD SCHEDULE
PANEL 'EM'

100A, 120/208V, 3Ø, 4W, MLO, SURF. MTD, 30 POLE

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
RECEP – IT 143	.36	20/1	1A	2A	20/1	.34	LTS – IT 143
RECEP – IT 143	.36	20/1	3B	4B	50/2	3.85	UPS
RECEP – IT 143	.36	20/1	5C	6C	–	3.85	UPS
RECEP – IT 143	1.18	20/1	7A	8A	50/3 *	4.40	EXISTING RTU
RECEP – IT 143	.36	20/1	9B	10B	–	4.40	EXISTING RTU
FIRE ALARM PANEL	1.00	20/1	11C	12C	–	4.40	EXISTING RTU
SPARE	–	20/1	13A	14A	–	–	SPACE
SPARE	–	20/1	15B	16B	–	–	SPACE
SPACE	–	–	17C	18C	–	–	SPACE
SPACE	–	–	19A	20A	–	–	SPACE
SPACE	–	–	21B	22B	–	–	SPACE
SPACE	–	–	23C	24C	–	–	SPACE
SPACE	–	–	25A	26A	30/3	–	SURGE PROTECTION DEVICE
SPACE	–	–	27B	28B	–	–	SURGE PROTECTION DEVICE
SPACE	–	–	29C	30C	–	–	SURGE PROTECTION DEVICE

* EXISTING LOAD TRANSFERRED FROM EXISTING PANEL 'LPG'

DEMAND LOAD
25.64 KVA – 7.69 KVA = 17.95 KVA
17.95 KVA ÷ [(208V)(√3) ÷ 1000] = 49.82 A

CONNECTED LOAD
PHASE A 6.67 KVA
PHASE B 9.36 KVA
PHASE C 9.61 KVA
TOTAL 25.64 KVA
25.64 KVA ÷ [(208V)(√3) ÷ 1000] = 71.17 A

PANELBOARD SCHEDULE
PANEL 'DP–26'

800A, 120/208V, 3Ø, 4W, MLO, SURF. MTD, 64 POLE (DOUBLE TUB)

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
ELECTRICAL PANEL '26A'	12.39	200/3	1A	2A	225/3	18.60	RTU–1
ELECTRICAL PANEL '26A'	11.62	–	3B	4B	–	18.60	RTU–1
ELECTRICAL PANEL '26A'	11.57	–	5C	6C	–	18.60	RTU–1
ELECTRICAL PANEL '26B'	5.58	100/3	7A	8A	30/3	2.30	RTU–2
ELECTRICAL PANEL '26B'	5.76	–	9B	10B	–	2.30	RTU–2
ELECTRICAL PANEL '26B'	5.40	–	11C	12C	–	2.30	RTU–2
ELECTRICAL PANEL '26C'	12.05	200/3	13A	14A	30/3	2.30	RTU–3
ELECTRICAL PANEL '26C'	12.55	–	15B	16B	–	2.30	RTU–3
ELECTRICAL PANEL '26C'	10.20	–	17C	18C	–	2.30	RTU–3
ELECTRICAL PANEL '26D'	8.62	100/3	19A	20A	30/3	2.30	RTU–4
ELECTRICAL PANEL '26D'	8.26	–	21B	22B	–	2.30	RTU–4
ELECTRICAL PANEL '26D'	6.88	–	23C	24C	–	2.30	RTU–4
ELECTRICAL PANEL '26E'	4.86	100/3	25A	26A	40/3	2.70	RTU–5
ELECTRICAL PANEL '26E'	3.96	–	27B	28B	–	2.70	RTU–5
ELECTRICAL PANEL '26E'	4.09	–	29C	30C	–	2.70	RTU–5
ELECTRICAL PANEL 'EM'	6.67	100/3	31A	32A	30/3	2.30	RTU–6
ELECTRICAL PANEL 'EM'	9.36	–	33B	34B	–	2.30	RTU–6
ELECTRICAL PANEL 'EM'	9.61	–	35C	36C	–	2.30	RTU–6
ERV–1	.39	15/2	37A	38A	40/2	2.90	CU–1
ERV–1	.39	–	39B	40B	–	2.90	CU–1
ERV–2	.39	15/2	41C	42C	40/2	2.90	CU–2
ERV–2	.39	–	43A	44A	–	2.90	CU–2
ERV–3	.39	15/2	45B	46B	40/2	2.90	CU–3
ERV–3	.39	–	47C	48C	–	2.90	CU–3
ERV–4	.39	15/2	49A	50A	40/2	2.90	CU–4
ERV–4	.39	–	51B	52B	–	2.90	CU–4
SPACE	–	–	53C	54C	40/2	2.90	CU–5
SPACE	–	–	55A	56A	–	2.90	CU–5
SPACE	–	–	57B	58B	40/2	2.90	CU–6
SPACE	–	–	59C	60C	–	2.90	CU–6
SPACE	–	–	61A	62A	40/2	2.90	CU–7
SPACE	–	–	63B	64B	–	2.90	CU–7
SPACE	–	–	65C	66C	40/2	2.90	CU–8
SPACE	–	–	67A	68A	–	2.90	CU–8
SPACE	–	–	69B	70B	40/2	2.90	CU–9
SPACE	–	–	71C	72C	–	2.90	CU–9
SPACE	–	–	73A	74A	–	–	SPACE
SPACE	–	–	75B	76B	–	–	SPACE
SPACE	–	–	77C	78C	–	–	SPACE
SPACE	–	–	79A	80A	–	–	SPACE
SPACE	–	–	81B	82B	–	–	SPACE
SPACE	–	–	83C	84C	–	–	SPACE

DEMAND LOAD
(149.17 KVA * 0.7) + 146.61 KVA = 250.83 KVA
250.83 KVA ÷ [(208V)(√3) ÷ 1000] = 696.23 A

CONNECTED LOAD
PHASE A 99.24 KVA
PHASE B 100.58 KVA
PHASE C 95.76 KVA
TOTAL 295.58 KVA
295.58 KVA ÷ [(208V)(√3) ÷ 1000] = 820.45 A

PANELBOARD SCHEDULE
PANEL 'LPG'

225A, 120/208V, 3Ø, 4W, MLO, RECESS MTD, 42 POLE (EXISTING)

DESCRIPTION	CONN KVA	CCT BRKR AMP/POLES	CCT. NO.	CCT. NO.	CCT BRKR AMP/POLES	CONN KVA	DESCRIPTION
LIGHTS ROOM 142	–	20/1	1A	2A	20/1	–	LIGHTS ROOM 143
LIGHTS ROOM 142	–	20/1	3B	4B	20/1	–	COMPUTER RM PLUGS
LIGHTS TYPING 145	–	20/1	5C	6C	15/1	–	LIGHTS RM 146
LIGHTS TYPING 145	–	20/1	7A	8A	20/1	–	LIGHTS RM 146
LIGHTS TYPING 145	–	20/1	9B	10B	20/1	–	WK EM LIGHTS
OUTDOOR SIGN	–	20/1	11C	12C	20/1	–	LIGHTS COUNSEL
LIGHTS GEN OFFICE	–	20/1	13A	14A	20/1	–	CONF&HEALTH 154,154A,158
LIGHTS GEN OFFICE	–	20/1	15B	16B	20/1	–	LIGHTS CORRIDOR 155
ENTRANCE	–	20/1	17C	18C	20/1	–	ENTRANCE
RTU–2	–	50/3 *	19A	20A	20/1	–	ENTRANCE
RTU–2	–	–	21B	22B	20/1	–	RECEPTACLES RMS 144,145
RTU–2	–	–	23C	24C	20/1	–	H&V145, LOBBY
OFFICE RECEP	–	20/1	25A	26A	20/1	–	RECEPTACLES 146, WK RM
PRINCIPLE & GENERAL OFF. RECEPS	–	20/1	27B	28B	20/1	–	HEALTH & CONF. RECEPS
GEN OFF FLOOR RECEPS	–	20/1	29C	30C	20/1	–	COMPUTER RM RECEPS
UNDER FLR RECEPTACLES RM 146	–	20/1	31A	32A	20/1	–	COMPUTER RM RECEPS
UNDER FLR RECEPTACLES RM 146	–	20/1	33B	34B	20/1	–	UNDER TYPING FL POCKETS 145
POWER POLE #13,VENT FANS 141,158,154	–	20/1	35C	36C	20/1	–	UV'S RMS 142,143,145,146
COMPUTER LAB RECEPTACLES	–	20/1	37A	38A	20/1	–	H&V #6 PASSAGE
COMPUTER LAB RECEPTACLES	–	20/1	39B	40B	20/1	–	LIGHTS RM 147
COMPUTER LAB RECEPTACLES	–	20/1	41C	42C	20/1	–	LTS – WAITING RM

* MADE SPARE BY RELOCATED LOAD TO NEW ELECTRICAL PANEL 'EM'.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7524

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48816
PHONE: (810)229-2701
FAX: (810)229-6767

ARCHITECTURE
ENGINEERING
CONSULTING

IDI
INTEGRATED DESIGNS INC.

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

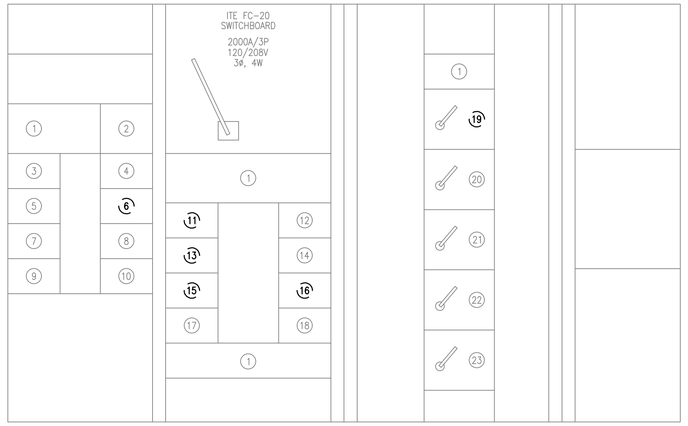
NO.	REVISIONS	DATE
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

SCHEDULES

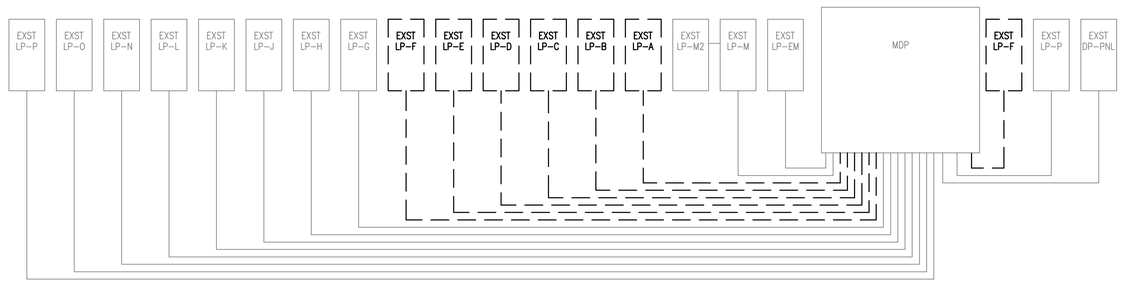
COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

1	SPACE
2	SOLAR – 125/2P
3	LP–G – 225A/3P
4	UNKNOWN – 225A/3P
5	LP–N – 150A/3P
6	LP–A 225A/3P
7	LP–M – 225A/3P
8	RP–B – 225A/
9	RP–F – 50A/3P
10	UNKNOWN – 100A/3P
11	LP–B – 225A/3P
12	LP–K – 150A/3P
13	LP–E – 150A/3P
14	DP–1 –
15	LP–C – 150A/3P
16	LP–D – 150A/3P
17	LP–O – 150A/3P
18	LP–J – 150A/3P
19	LP–F – 400A/3P
20	DP–PNL – 400A/3P
21	LP–H – 200A/3P (KITCHEN)
22	CONCESSION STAND – 400A/3P
23	UNKNOWN – 200A/3P



MAIN DISTRIBUTION PANEL DEMOLITION PLAN

N.T.S.



ELECTRICAL RISER DEMOLITION PLAN

N.T.S.

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4400
FAX: (906)228-7534

BRIGHTON OFFICE:
8571 W. GRAND RIVER AVE., SUITE 600
BRIGHTON, MI 48116
PHONE: (810)229-2701
FAX: (810)229-6767

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

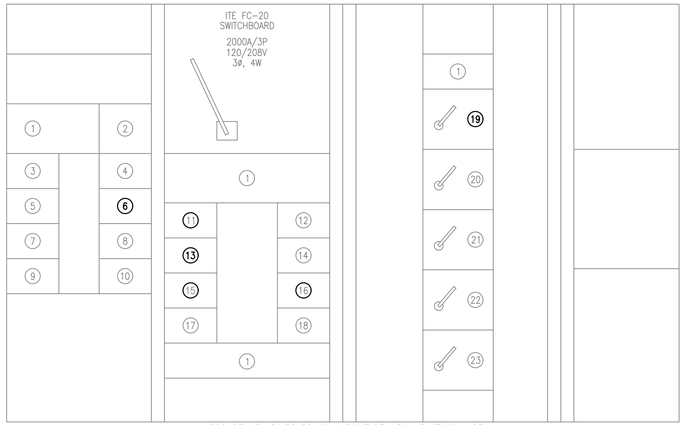
	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

RISER
DIAGRAM
DEMOLITION

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E4.1

1	SPACE
2	SOLAR – 125/2P
3	LP–G – 225A/3P
4	UNKNOWN – 225A/3P
5	LP–N – 150A/3P
6	**GEN SET – 100A/3P**
7	LP–M – 225A/3P
8	RP–B – 225A/
9	RP–F – 50A/3P
10	UNKNOWN – 100A/3P
11	**SPARE – 225A/3P**
12	LP–K – 150A/3P
13	**SPD – 30A/3P**
14	DP–1 –
15	**SPARE – 150A/3P**
16	**SPARE – 150A/3P**
17	LP–O – 150A/3P
18	LP–J – 150A/3P
19	**DP26 – 800A/3P**
20	DP–PNL – 400A/3P
21	LP–H – 200A/3P (KITCHEN)
22	CONCESSION STAND – 400A/3P
23	UNKNOWN – 200A/3P

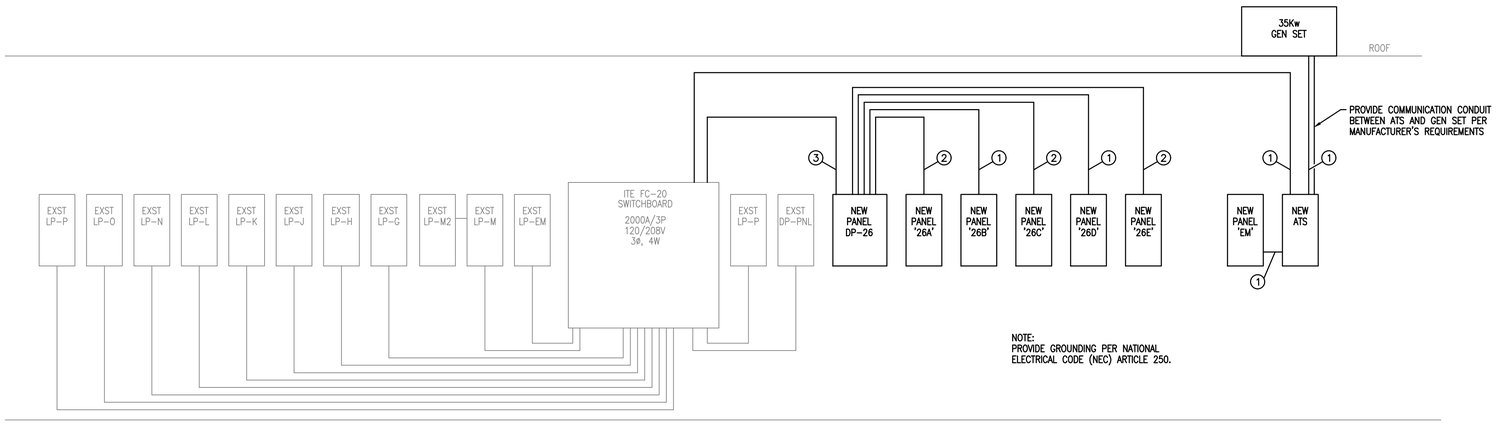


(13) PROVIDE NEW 30A3P BRANCH CIRCUIT DEVICE IN EXISTING, MADE SPARE BY DEMOLITION, LOCATED IN EXISTING MAIN DISTRIBUTION PANEL (MDP) TO CONNECT TO NEW SURGE PROTECTION DEVICE. PROVIDE NEW SPD PER SPECIFICATIONS MOUNTED ABOVE OR ALONG SIDE EXISTING MDP.

(19) PROVIDE (3) 800A FUSES IN EXISTING, MADE SPARE BY DEMOLITION SWITCH, LOCATED IN EXISTING MAIN DISTRIBUTION PANEL (MDP) TO CONNECT TO NEW DISTRIBUTION PANEL.

MAIN DISTRIBUTION PANEL PLAN (NEW WORK)

N.T.S.



NOTE:
PROVIDE GROUNDING PER NATIONAL ELECTRICAL CODE (NEC) ARTICLE 250.

○	FEEDER SCHEDULE
1	1 1/4"C–4 #3 THHN & 1 #8 GND (CU)
2	2"C–4 #3/0 THHN & 1 #6 GND (CU)
3	(3 SETS)3"C–4 #400KCMIL & 1 #3/0 (AL) EA.

POWER RISER DIAGRAM - NEW WORK

N.T.S.

INTEGRATED DESIGNS INC.
ARCHITECTURE
ENGINEERING
CONSULTING

MARQUETTE OFFICE:
1021 W. BARAGA AVENUE
MARQUETTE, MI 49855
PHONE: (906)228-4480
FAX: (906)228-7324

BIRCH RUN OFFICE:
6577 MAIN STREET, SUITE 600
BIRCH RUN, MI 48415
PHONE: (810)229-2701
FAX: (810)224-4787

COLEMAN COMMUNITY SCHOOLS
JR/SR HIGH SCHOOL - 2024 BOND PROJECTS
COLEMAN, MICHIGAN
PROJECT NO. 21-949

NO.	REVISIONS	DATE
B	DES. DEVELOPMENT	07.24.25
0	FOR CONSTRUCTION	11.05.25

	BY	DATE
DESIGN	SNS	
DRAWN	SNS	
CHECKED	BAD	
APPROVED	BAD	

RISER DIAGRAM
NEW WORK

COPYRIGHT © 2025 INTEGRATED DESIGNS INC.

E4.2