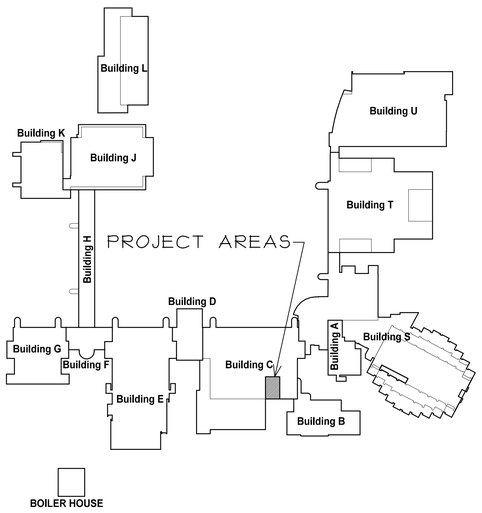
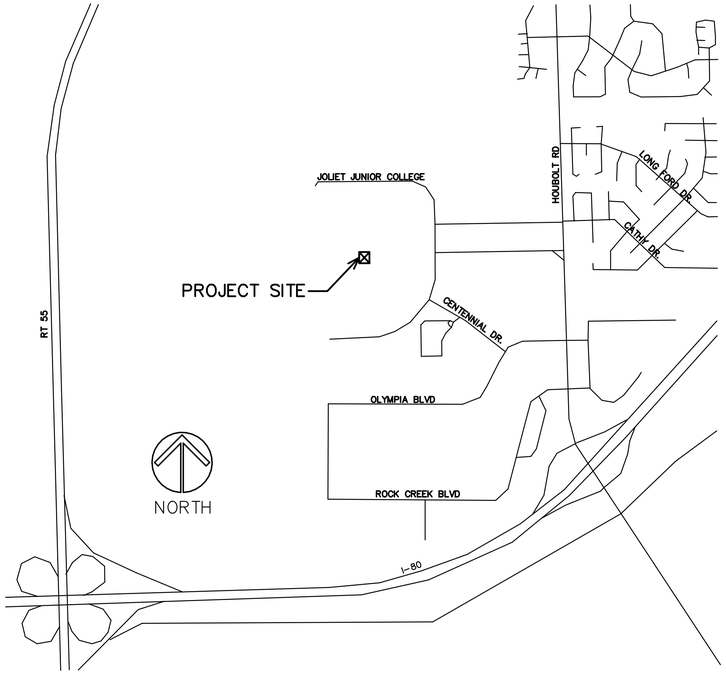


KEY PLAN

SCALE: N.T.S.

NORTH

LOCATION MAP



INDEX OF SHEETS

HVAC LAB UPDATE

JOLIET JUNIOR COLLEGE
BUILDING C
1215 HOUBOLT ROAD
JOLIET, ILLINOIS

STROMSLAND + DE YOUNG + PRYBYS
ARCHITECTURE GROUP
20620 BURL COURT
JOLIET, IL 60433
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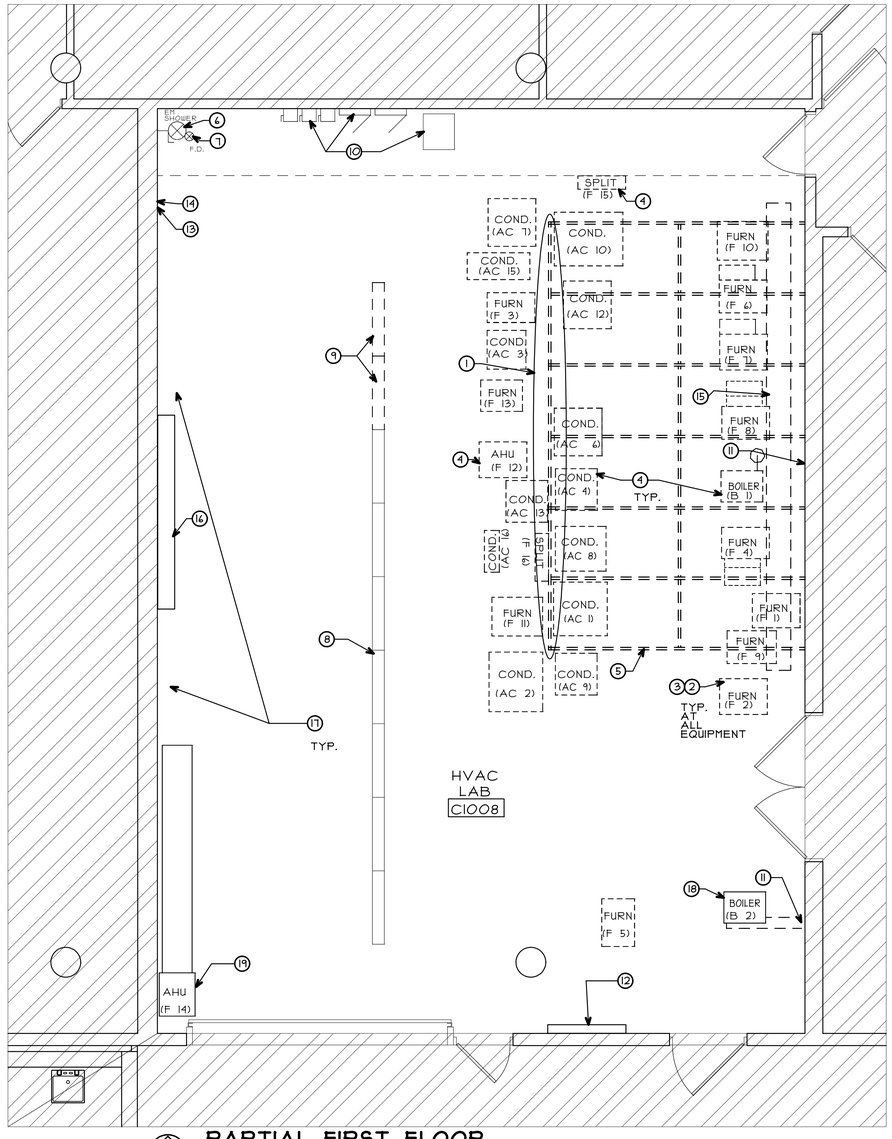
1215 HOUBOLT ROAD
JOLIET, ILLINOIS

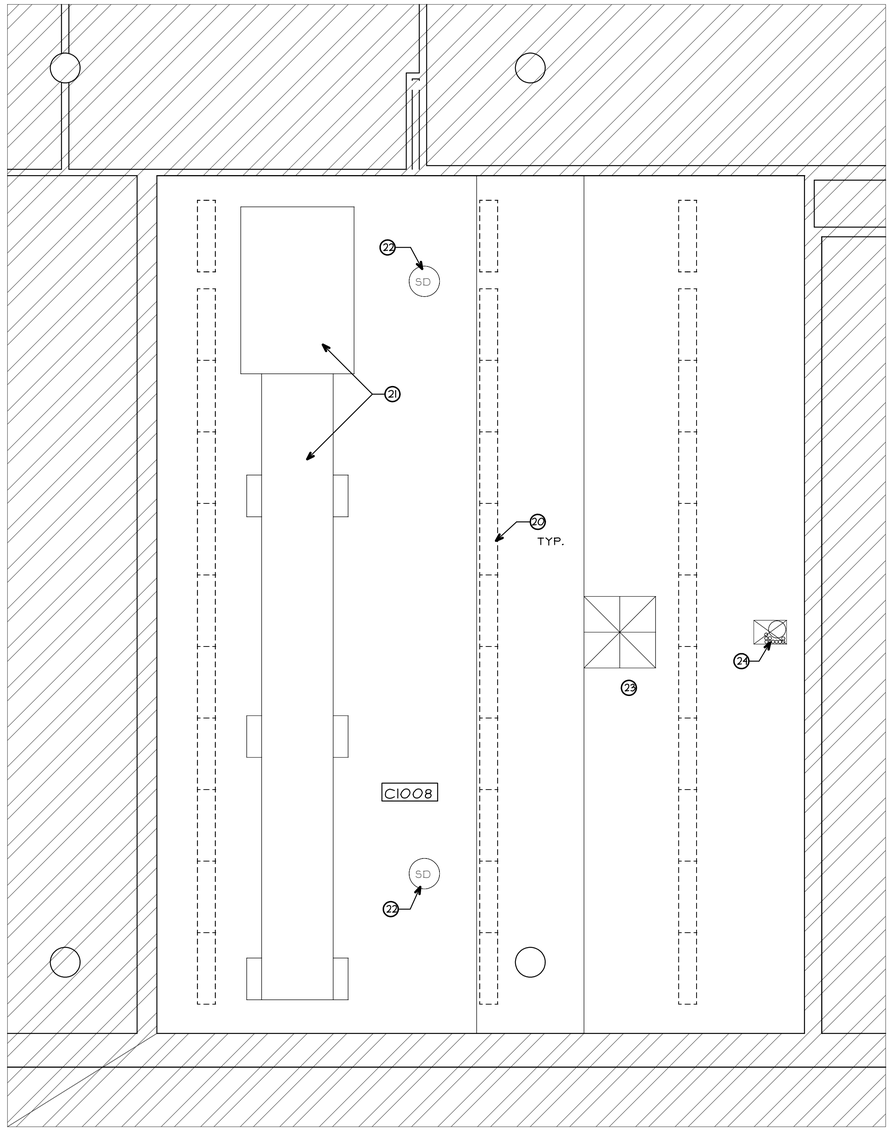
DATE: 3/10/2022
REVISED:

PROJECT NO. 2202-01

SHEET NUMBER T1

OF 1 SHEETS





PARTIAL FIRST FLOOR DEMOLITION FLOOR PLAN

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

PARTIAL FIRST FLOOR DEMOLITION CEILING PLAN

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

DEMOLITION PLAN LEGEND

HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE.

EXISTING WALLS TO REMAIN (TYPICAL)

EXISTING DOOR & FRAME TO REMAIN (TYPICAL)

EX DENOTES EXISTING DEVICE TO REMAIN AND DEVICE TO REMAIN ON EXISTING CIRCUIT

DEMOLITION PLAN GENERAL NOTES

A. ALL SALVAGED ITEMS NOT REUSED SHALL BE PLACED IN STORAGE, ON SITE, AT A LOCATION DESIGNATED BY THE OWNER.

B. ALL ITEMS REMOVED AND NOT SALVAGED SHALL BE PROPERLY DISPOSED OF OFF SITE BY THE CONTRACTOR.

C. PATCH & REPAIR HOLES AND/OR DAMAGED SURFACES CAUSED TO ADJACENT CONSTRUCTION DURING DEMOLITION.

D. VERIFY ANY ADDITIONAL DEMOLITION WORK REQUIRED FOR INSTALLATION OF DEVICES/EQUIPMENT.

E. OWNERS STAFF TO REMOVE EXISTING FURNITURE AND MOVABLE EQUIPMENT UNLESS INSTRUCTED OTHERWISE BY OWNER/ALTERNATE NO.2 CONTRACTOR TO REMOVE EXISTING FURNITURE AND MOVABLE EQUIPMENT AND STORE IN METAL STORAGE CONTAINER PROVIDED BY OWNER. (V.I.F.)

F. EXISTING ROOM FLOOR FINISH IN PROJECT AREA IS SEALED CONCRETE. FLOOR TO BE PREPPED FOR NEW FLOOR FINISH IF REQUIRED. (TYPICAL)

DEMOLITION PLAN KEY NOTES

1. EXISTING ELECTRICAL DISCONNECTS TO BE REMOVED FROM UNISTRUT FRAME AND RELOCATED TO NEW LOCATION. SEE M.E.P. DRAWINGS (V.I.F.)
2. EXISTING GAS LINES TO BE DISCONNECTED FROM EQUIPMENT AND MODIFIED AS REQUIRED TO NEW LOCATION. SEE M.E.P. DRAWINGS. (V.I.F.)
3. EXISTING ELECTRICAL EQUIPMENT CONNECTIONS TO BE DISCONNECTED AND RELOCATED TO NEW LOCATION. SEE ELECTRICAL DRAWINGS. (V.I.F.)
4. EXISTING TRAINING HVAC EQUIPMENT AND STANDS TO BE DISCONNECTED AND REMOVED AND SALVAGED BY OWNERS STAFF. (ALTERNATE NO.1 CONTRACTOR TO DISCONNECT, REMOVE AND SALVAGE FOR REUSE IN OWNER PROVIDED STORAGE CONTAINER)(V.I.F.)(TYPICAL)
5. EXISTING UNI-STRUT FRAMING TO BE REMOVED COMPLETELY. (V.I.F.)
6. EXISTING EMERGENCY SHOWER TO REMAIN. (V.I.F.)
7. EXISTING FLOOR DRAIN TO REMAIN. (V.I.F.)IF ALTERNATE NO.3 IS ACCEPTED EXISTING FLOOR FINISH TO BE GROUND OUT SO NEW FLOOR FINISH WILL BE FLUSH WITH TOP OF EXISTING DRAIN COVER. PROVIDE PROTECTION DURING CONSTRUCTION FROM DUST AND DEBRIS FROM FALLING IN DRAIN
8. EXISTING TRENCH DRAIN TO REMAIN. (V.I.F.)IF ALTERNATE NO.3 IS ACCEPTED EXISTING FLOOR FINISH TO BE GROUND OUT SO NEW FLOOR FINISH WILL BE FLUSH WITH TOP OF EXISTING TRENCH DRAIN FLANGE. PROVIDE PROTECTION DURING CONSTRUCTION FROM DUST AND DEBRIS FROM FALLING IN DRAIN
9. REMOVE PORTION OF EXISTING TRENCH DRAIN AND METAL COVERS AT LOCATION OF NEW STAIRS BACK TO FULL PANEL BEYOND NEW STAIR. AT THAT LOCATION PROVIDE A METAL BLANK OFF PANEL CUT TO PROFILE OF EXISTING TRENCH DRAIN SET PANEL DOWN INTO TRENCH DRAIN AND CAULK IN TO SEAL TIGHT. (V.I.F.)
10. EXISTING ELECTRICAL PANELS AND TRANSFORMER TO REMAIN. (V.I.F.) PROVIDE PROTECTION DURING CONSTRUCTION. SEE ELECTRICAL DRAWINGS
11. EXISTING RADIANT HEAT PIPING TO REMAIN. SEE M.E.P. DRAWINGS. (V.I.F.)
12. EXISTING WALL MOUNTED TRAINING RADIANT BASE BOARD HEATERS AND PIPING TO REMAIN. PROVIDE PROTECTION DURING CONSTRUCTION. (V.I.F.)
13. EXISTING WALL MOUNTED WATER PIPE LOOP AND UNISTRUT TO BE REMOVED AND SALVAGED TO OWNER. (V.I.F.)
14. EXISTING LAUNDRY OUTLET BOX TO BE REMOVED. SEE PLUMBING DRAWINGS. EXISTING GYPSUM BOARD TO BE PATCHED WITH "LIKE MATERIALS" (V.I.F.)
15. EXISTING METAL FLUE PIPE ASSEMBLY TO BE REMOVED AND RELOCATED UNDER NEW FLOOR STRUCTURE. MODIFY AS NEEDED. SEE M.E.P. DRAWINGS. (V.I.F.)
16. EXISTING TOOL RACK WALL TO BE REMOVED AND RELOCATED. PATCH WALL WITH "LIKE MATERIALS" SEE NEW FLOOR PLAN FOR NEW LOCATION.
17. SAW CUT AND REMOVE PORTIONS OF EXISTING FLOOR SLAB FOR NEW COLUMN FOOTINGS. SEE STRUCTURAL DRAWINGS
18. EXISTING BOILER TO REMAIN. IF ALTERNATE NO. 03 IS ACCEPTED EXISTING BOILER AND STAND TO BE DISCONNECTED AND REMOVED AND SALVAGED FOR REUSE. (V.I.F.)
19. EXISTING AIR HANDLING UNIT TO REMAIN. IF ALTERNATE NO.03 IS ACCEPTED EXISTING AIR HANDLING UNIT TO BE DISCONNECTED AND REMOVED AND SALVAGED FOR REUSE. (V.I.F.)

DEMOLITION CEILING PLAN KEY NOTES

20. EXISTING LIGHT FIXTURES TO BE REMOVED. EXISTING WIRING TO REMAIN FOR REUSE. (V.I.F.)SEE ELECTRICAL DRAWINGS
21. EXISTING HVAC DUCTS AND DIFFUSERS TO REMAIN. (V.I.F.)
22. EXISTING SMOKE DETECTOR TO REMAIN.
23. EXISTING EXHAUST FAN TO REMAIN.
24. EXISTING EQUIPMENT VENT PIPING TO REMAIN UP THRU ROOF. MODIFY AS NEEDED TO CONNECT TO EXISTING EQUIPMENT AT NEW LOCATION. SEE M.E.P. DRAWINGS

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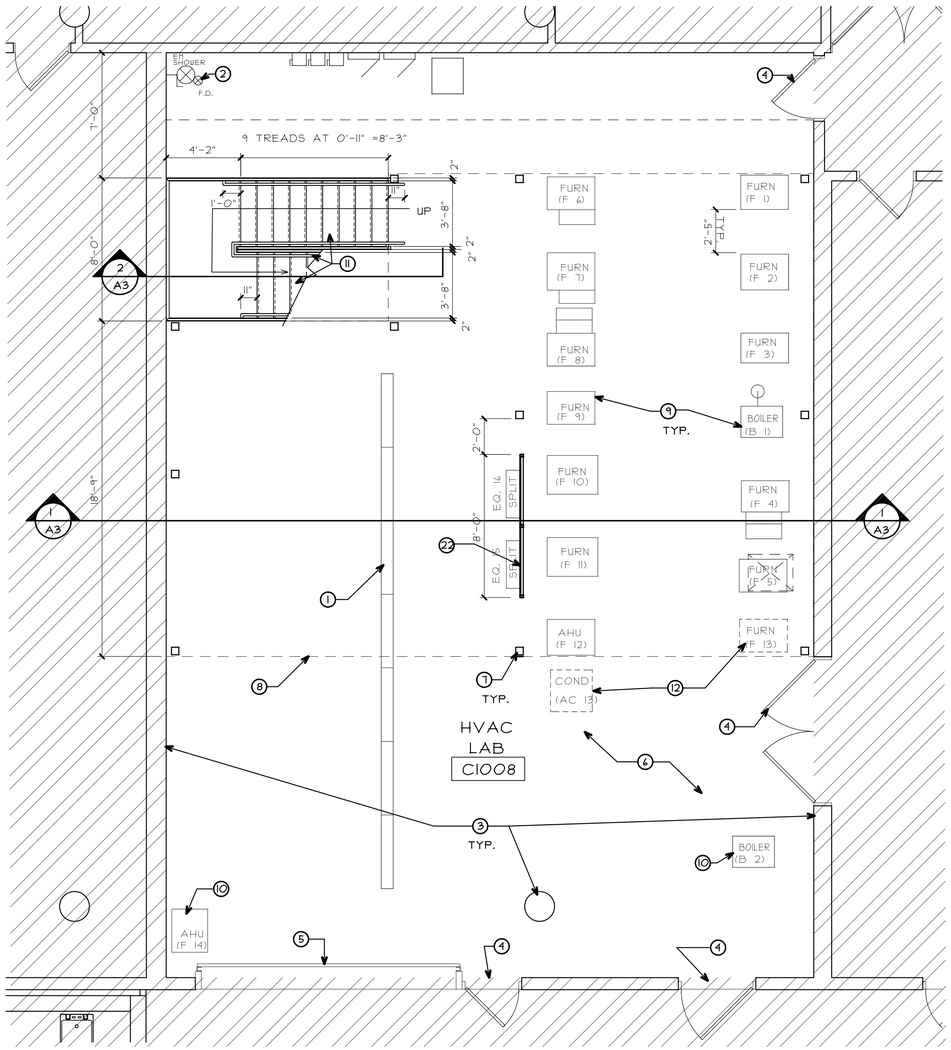
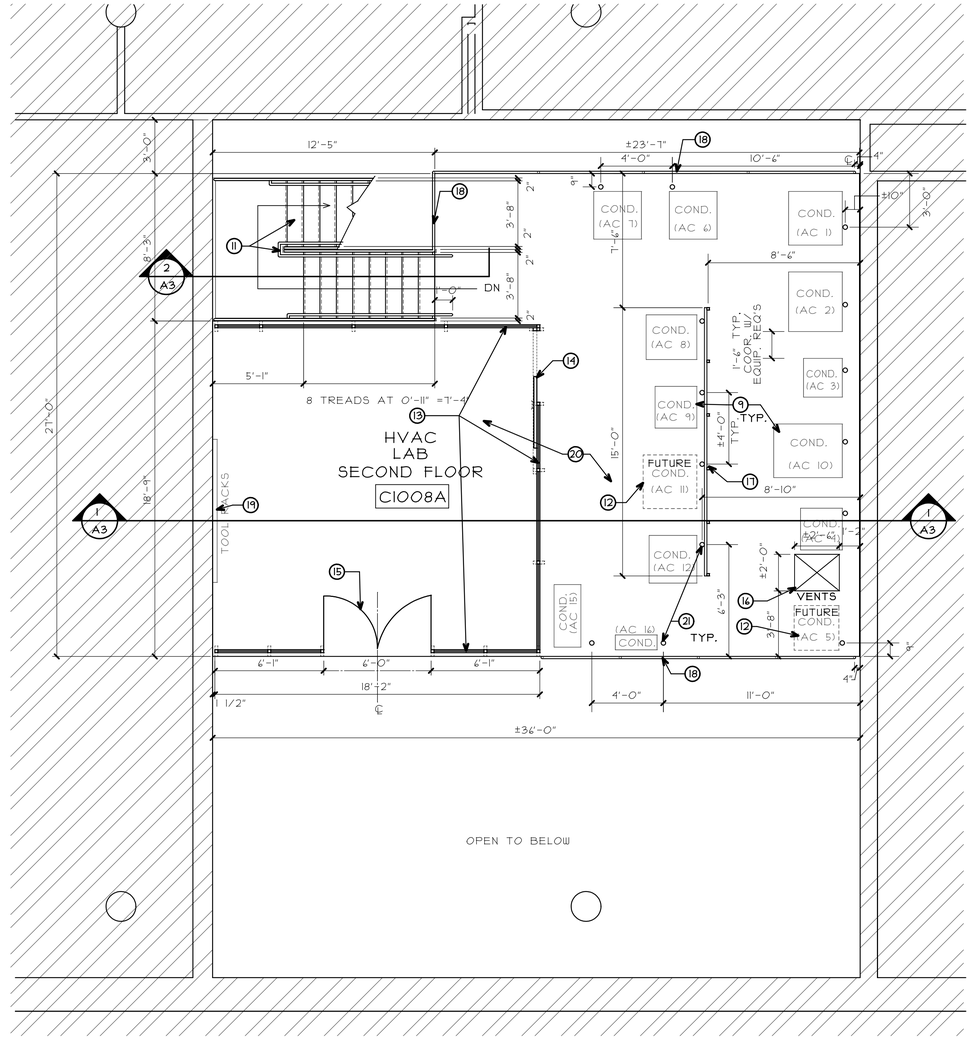


NORTH

PARTIAL FIRST FLOOR FLOOR PLAN

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



NORTH

NEW SECOND LEVEL FLOOR PLAN

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

FLOOR PLAN GENERAL NOTES

A. VERIFY ALL EXISTING DIMENSIONS IN FIELD AND REPORT ALL DISCREPANCIES PRIOR TO NEW CONSTRUCTION.

B. PATCH & REPAIR ALL EXISTING GYPSUM BOARD SURFACES TO "LIKE NEW" CONDITION PRIOR TO INSTALLING NEW FINISHES.

C. NEW M-E-P SERVICES IN EXISTING METAL STUD AND GYPSUM BOARD WALLS MAY BE "FISHED DOWN" IF POSSIBLE. OR THE WALL IS TO BE CHANNEL CUT AND PATCHED WITH "LIKE" MATERIALS. COORDINATE WITH M-E-P TRADES.

D. PROVIDE ALL REQUIRED IN WALL BLOCKING FOR NEW/SALVAGED WALL HUNG EQUIPMENT. COORDINATE WITH OWNER FOR OWNER PROVIDED EQUIPMENT.

E. EXISTING WALL MOUNTED EQUIPMENT NOT NOTED TO BE REMOVED ARE TO REMAIN. PROVIDE PROTECTION DURING CONSTRUCTION AND PAINT AROUND. (V.I.F.)

NOTE:
GENERAL CONTRACTOR TO PROVIDE A $5,000 ALLOWANCE IN HIS/HER BID FOR UNFORESEEN/MISCELLANEOUS CONDITIONS. WHEN FIGURING THIS ALLOWANCE IN THE BID, THE CONTRACTOR IS TO INCLUDE ALL NECESSARY OVERHEAD AND PROFIT TO CARRY THIS DOLLAR VOLUME. THIS ALLOWANCE IS NOT FOR THE CONTRACTOR'S BENEFIT, AND IS ONLY AUTHORIZED TO CHARGE AGAINST THIS ALLOWANCE WHEN DIRECTED AND APPROVED BY JOLIET JUNIOR COLLEGE. THE CONTRACTOR WILL BE ALLOWED TO INVOICE FOR DIRECT MATERIAL AND RAW LABOR COSTS ONLY.

FLOOR PLAN LEGEND

HATCH DENOTES AREAS NOT INCLUDED IN PROJECT SCOPE.

EXISTING WALLS TO REMAIN (TYPICAL)

EXISTING DOOR & FRAME TO REMAIN (TYPICAL) PROVIDE PROTECTION DURING CONSTRUCTION.

FLOOR PLAN KEY NOTES

1. EXISTING TRENCH DRAIN TO REMAIN.
2. EXISTING FLOOR DRAIN TO REMAIN. PROVIDE PROTECTION DURING CONSTRUCTION.
3. ALL EXISTING WALLS AND COLUMNS TO BE PAINTED FULL HEIGHT (PNT-1). EXISTING CONDUITS ON WALLS SHOULD BE PAINTED TO MATCH WALL. EXISTING GAS PIPING, WATER LINES AND FIRE ALARM DEVICE BOX AND CONDUITS AND EQUIPMENT TO REMAIN ARE NOT TO BE PAINTED. (V.I.F.) PROVIDE PROTECTION DURING PAINTING.
4. EXISTING DOOR AND FRAME TO BE PREPPED AND PAINTED (PNT-2)(V.I.F.)
5. EXISTING OVERHEAD DOOR, DOOR TRACKS AND COIL COVER TO BE PREPPED AND PAINTED (PNT-2)(V.I.F.)
6. PREP EXISTING CONCRETE AND NEW CONCRETE FLOOR PATCHES TO BE SEALED. ALTERNATE NO.03 CONTRACTOR TO PROVIDE NEW FLUID APPLIED RESINOUS FLOORING WITH AN INTEGRAL BASE ON ALLS WALLS AND EXISTING CONCRETE COLUMN IN LIEU OF SEALED CONCRETE . SEE DETAIL 5 ON SHEET A3. (V.I.F.)
7. PROVIDE NEW PAINTED STEEL COLUMN (PAINT WITH INTUMESCENT FIRE RESISTIVE COATING TO ACHIEVE (2) HOUR FIRE RATING. SEE STRUCTURAL DRAWINGS.
8. DASHED LINE REPRESENTS OUTLINE OF NEW SECOND FLOOR ABOVE.
9. EXISTING HVAC TRAINING EQUIPMENT TO BE REINSTALLED TO WORKING ORDER. EXISTING METAL STANDS TO BE MODIFIED AS REQUIRED TO PROVIDE CLEARANCE FOR RELOCATED METAL VENT FLUE PIPE. COORDINATE WITH OWNERS STAFF FOR FINAL LAYOUT. SEE M.E.P. DRAWINGS
10. EXISTING EQUIPMENT TO REMAIN. IF ALTERNATE NO.03 IS ACCEPTED EXISTING EQUIPMENT TO BE REINSTALLED TO WORKING ORDER. SEE M.E.P. DRAWINGS
11. PROVIDE NEW METAL STAIRS AND LANDING WITH PIPE GUARD RAILS AND HANDRAIL. SEE DETAILS.
12. EQUIPMENT SHOWN DASHED WILL BE INSTALLED BY OWNER. PROVIDE NEW ELECTRICAL, GAS AND VENTING CONNECTION. SEE M.E.P. DRAWINGS
13. 8' HIGH FLOOR MOUNTED WIRE MESH PARTITION. (TYPICAL)(U.N.O.)
14. PROVIDE SLIDING DOOR IN WIRE MESH PARTITION (GATE PANELS AND HARDWARE TO BE PROVIDED BY WIRE MESH PARTITION MANUFACTURER) (4'-0" X 8'-0" OPENING)
15. PROVIDE DOUBLE HINGED GATE IN WIRE MESH PARTITION. (GATE PANELS AND HARDWARE TO BE PROVIDED BY WIRE MESH PARTITION MANUFACTURER) (6'-0" X7'-0" OPENING)
16. PROVIDE OPENING IN NEW FLOOR FOR HVAC EQUIPMENT VENT PIPING. (COORDINATE EXACT SIZE OF OPENING WITH REQUIRED VENT PIPING.) SEE STRUCTURAL DRAWINGS
17. PROVIDE 36" HIGH 1 5/8" UNISTRUT FRAMED KNEE WALL FOR MOUNTING OF NEW ELECTRICAL . PROVIDE VERTICALS AT 24" O.C. AND MOUNT TO FLOOR SLAB WITH POST BASE PLATES. PROVIDE SINGLE UNISTRUT HORIZONTAL MEMBER MOUNTED TO FACE OF VERTICALS. PROVIDE TRIPLE COMBINATION HORIZONTAL MEMBER 1'-0" DOWN FROM TOP OF KNEE WALL AND MOUNT TO FACE OF VERTICALS FOR MOUNTING OF NEW ELECTRICAL DEVICES.
18. PROVIDE NEW PAINTED METAL PIPE GUARD RAIL. SEE DETAILS.
19. RE-INSTALL EXISTING TOOL RACK WALL. MOUNT BOTTOM AT 18" A.F.F.
20. PROVIDE SEALED CONCRETE ON TOP OF NEW SECOND FLOOR. ALTERNATE NO.3 CONTRACTOR TO PROVIDE FLUID APPLIED RESINOUS FLOORING IN LIEU OF SEALED CONCRETE.
21. PROVIDE 3" PVC PIPE SLEEVES THROUGH FLOOR SLAB FOR UNIT REFRIGERATION LINES (COORDINATION WITH FLOOR STRUCTURE FRAMING)SLEEVE TO PROTRUDE 2 1/2" BELOW BOTTOM OF FLOOR DECK.
22. PROVIDE 4X8 SHEET OF 3/4" FIRE RATED PLYWOOD MOUNTED ON 1 5/8" UNI-STRUT FRAMING. PROVIDE (3)VERTICAL 1 5/8" UNI-STRUT FRAMING MEMBERS FROM FLOOR TO UNDER SIDE OF BEAM ABOVE AND PROPERLY SECURED WITH UNI STRUT POST BASE PLATES. PROVIDE HORIZONTAL 1 5/8" UNI-STRUT MEMBERS AT TOP AND BOTTOM OF PLYWOOD AND PROPERLY ATTACH TO VERTICALS WITH PLATES AND ANGLES.

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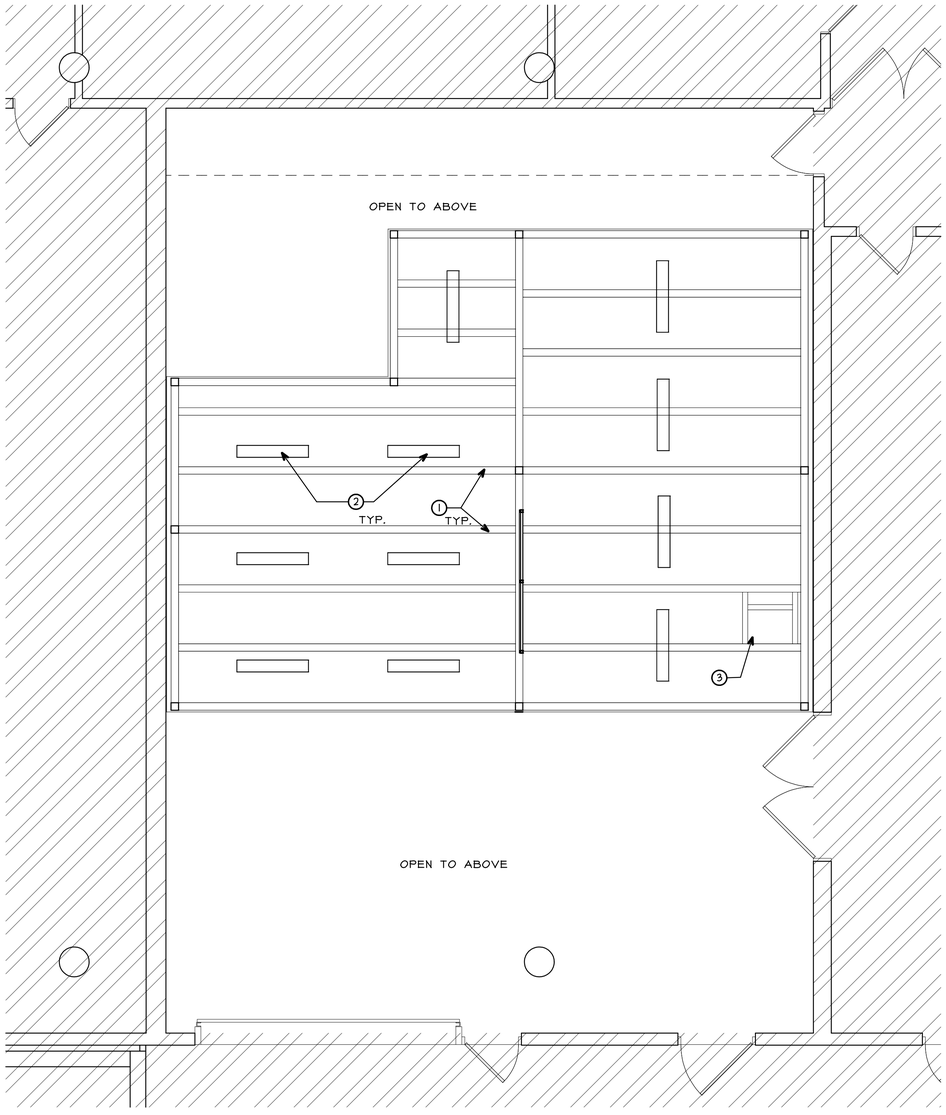


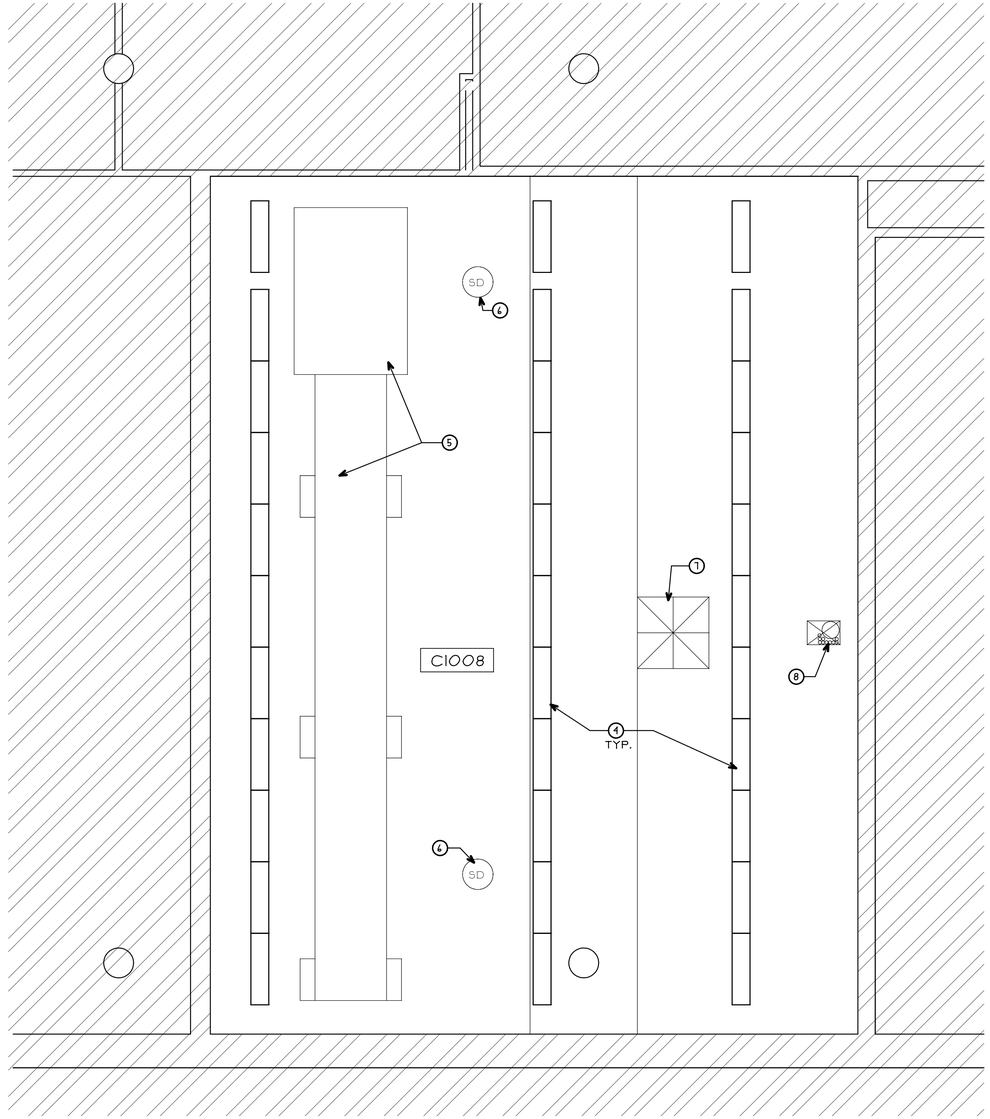
NORTH

PARTIAL FIRST FLOOR CEILING PLAN

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

CEILING PLAN KEY NOTES

1. NEW SECOND FLOOR FRAMING. SEE STRUCTURAL DRAWINGS
2. NEW LED LIGHT FIXTURES SEE ELECTRICAL DRAWINGS
3. OPENING FOR EXHAUST FLUES IN NEW SECOND FLOOR SLAB. SEE STRUCTURAL DRAWINGS
4. PROVIDE NEW SUSPENDED LED LIGHT FIXTURES CONNECT TO NEW ROOM SWITCHING AS INDICATED IN ELECTRICAL DRAWINGS. (V.I.F.)
5. EXISTING HVAC DUCTS AND REGISTERS TO REMAIN. (V.I.F.)
6. EXISTING SMOKE DETECTOR TO REMAIN. (V.I.F.)
7. EXISTING EXHAUST FAN TO REMAIN. (V.I.F.)
8. EXISTING EXHAUST FLUE VENTS TO REMAIN MODIFY IF REQUIRED. SEE MECHANICAL DRAWINGS.



NORTH

PARTIAL SECOND FLOOR CEILING PLAN

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

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2202-01

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A2

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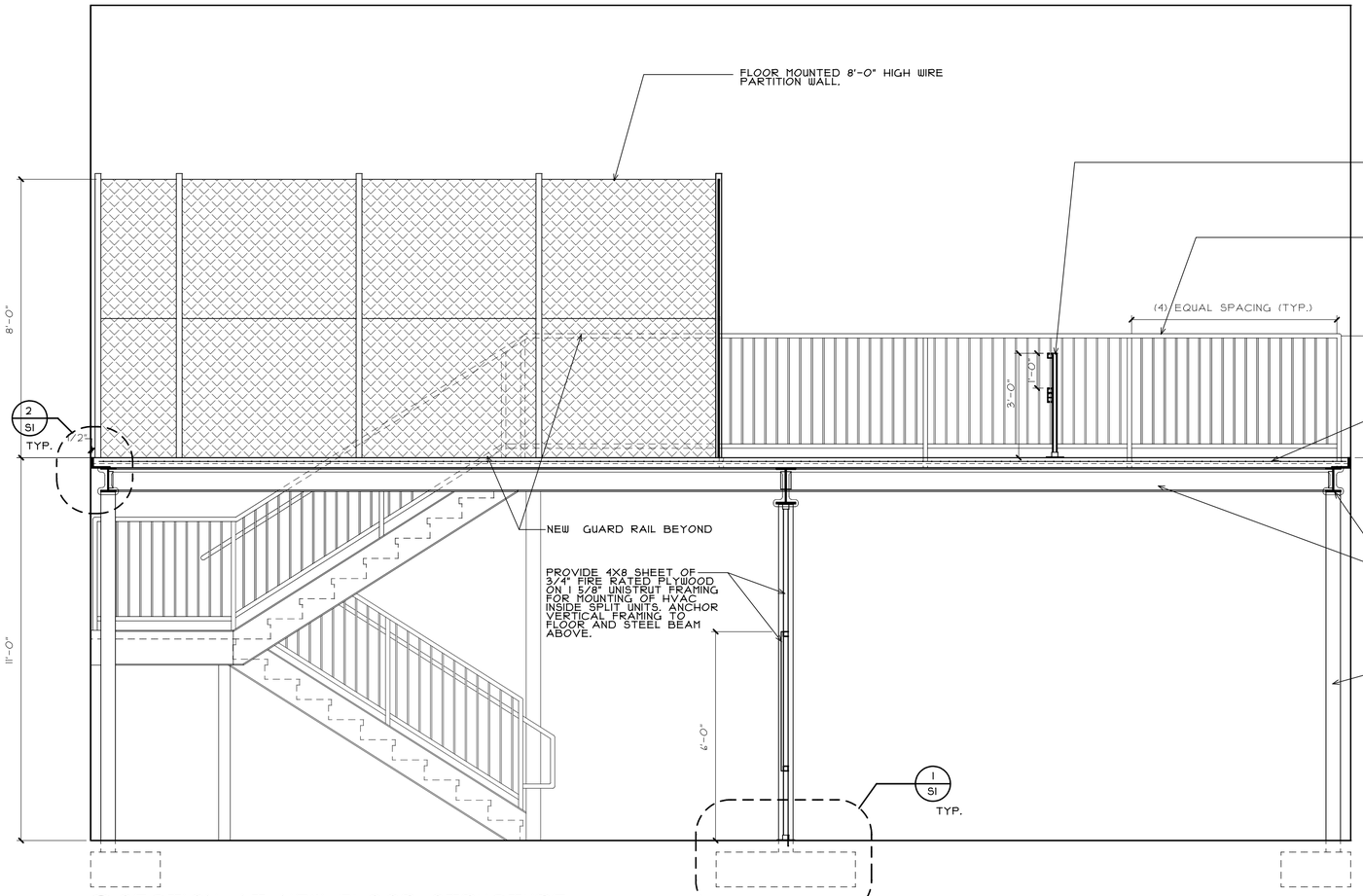
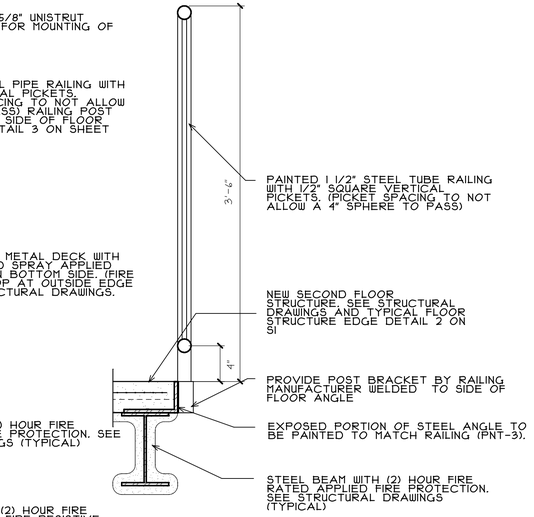


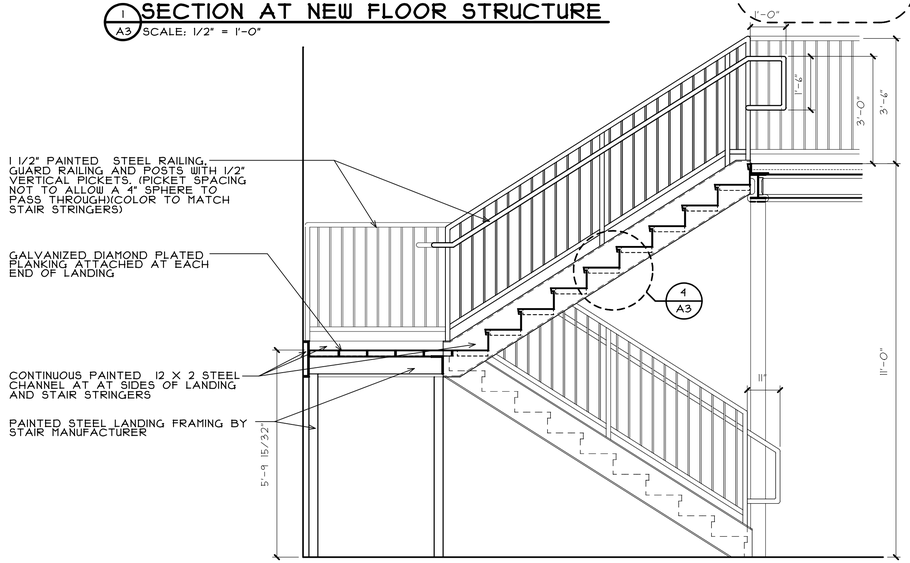
1/A3 SECTION AT NEW FLOOR STRUCTURE

SCALE: 1/2" = 1'-0"



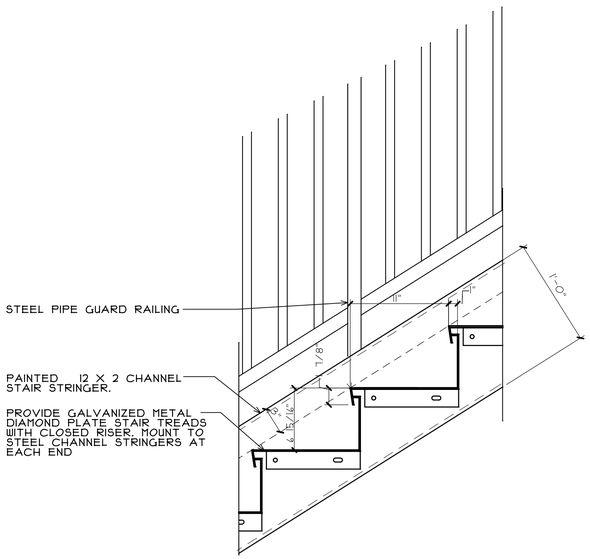
3/A3 DETAIL AT SECOND FLOOR RAILING

SCALE: 1 1/2" = 1'-0"



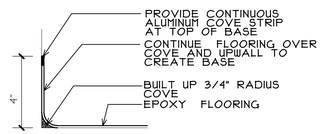
2/A3 STAIR SECTION

SCALE: 1/2" = 1'-0"



4/A3 DETAIL AT STAIR TREAD

SCALE: 1 1/2" = 1'-0"



ALTERNATE NO.3

5/A3 DETAIL AT INTEGRAL COVE

SCALE: 3" = 1'-0"

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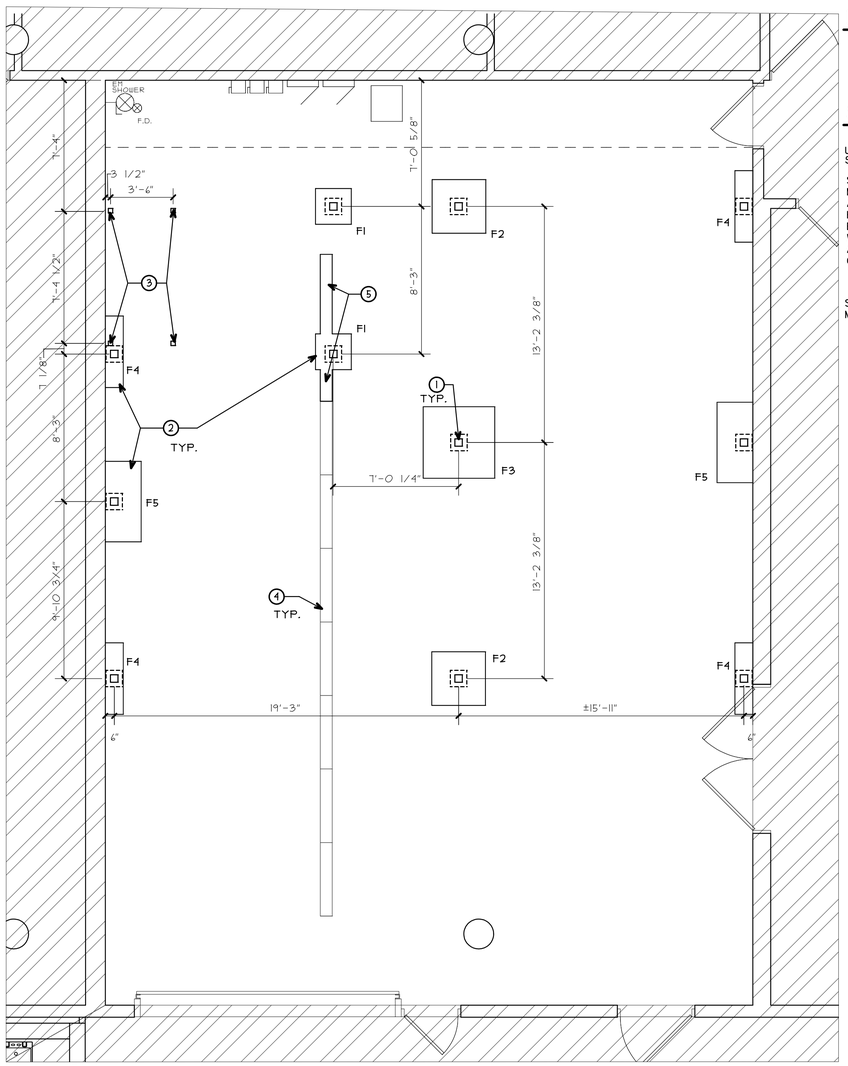


NORTH

NEW FOOTING PLAN

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

DESIGN CRITERIA

SECOND LIVE LOAD: 125 PSF
SECOND DEAD LOAD (3 1/2" CONC. DECK) : 33 PSF

STAIR DESIGN LIVE LOAD: 100 PSF

STRUCTURAL STEEL NOTES

UNLESS NOTED OTHERWISE, THE FOLLOWING MATERIAL SPECIFICATIONS SHALL BE USED:

STRUCTURAL STEEL FRAMING (SHAPES):	
MISC. STRUCTURAL STEEL (PLATES & ANGLES):	ASTM A992 GRADE 50 (Fy=50 KSI) U.N.O.
HSS TUBING:	ASTM A36 U.N.O. ASTM A-500 GRADE B OR C (Fy=46 KSI MIN.)
BOLTS:	¾" ASTM A-325-N U.N.O.
WELDS:	70 KSI TENSILE STRENGTH (MIN.)
ANCHOR BOLTS:	ASTM F1554-GR. 55
GROUT UNDER BASE PLATES:	"SHRINKAGE COMPENSATING" WITH f'c=6,000 PSI

SHOP AND FIELD CONNECTIONS: HIGH STRENGTH BOLTED OR WELDED WITH E70XX ELECTRODES. MINIMUM FILLET WELDS PER TABLE J2.4 AISC (ASD). WELDING SHALL MEET AISC (ASD) SECTION J2.

TABLE J2.4 AISC

MATERIAL THICKNESS THICKER PART JOINED (INCHES)	MINIMUM SIZE OF FILLET WELD (INCHES)
TO ¼ INCLUSIVE	⅛
OVER ¼ TO ½	3/16
OVER ½ TO ¾	¼
OVER ¾ TO 1½	5/16

WELDING SHALL CONFORM TO THE AISC REQUIREMENTS AS SUPPLEMENTED BY THE LATEST EDITION OF THE AWS STANDARD D1.1. ALL MANUAL SHIELDED METAL ARC WELDING ELECTRODES TO BE E70XX. THE ELECTRODES SHALL BE OF THE LOW HYDROGEN CLASSIFICATION. ALL WELDING SHALL BE PERFORMED BY QUALIFIED WELDERS, AWS CERTIFIED FOR THE SPECIFIC WELD.

ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE "AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS" AND THE "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS".

ALL STRUCTURAL STEEL SHALL BE SHOP PRIME PAINTED ON ALL SURFACES TYPICAL (U.N.O.) COORDINATE WITH PRIMER REQUIREMENT FOR APPLIED AND INTUMESCENT COATINGS.

THE STRUCTURAL STEEL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STEEL STAIRS AND RAILINGS, INCLUDING ALL ACCESSORIES AND CONNECTIONS. THE CONTRACTOR SHALL HAVE ALL STAIR AND RAILING MEMBERS, ACCESSORIES AND CONNECTIONS DESIGNED BY A STRUCTURAL ENGINEER (LICENSED IN THE STATE OF ILLINOIS) FOR ALL LOADING CONDITIONS REQUIRED BY THE GOVERNING BUILDING CODES. THE DESIGN, MANUFACTURE AND INSTALLATION OF ALL STEEL STAIRS SHALL BE IN ACCORDANCE WITH THE APPLICABLE SPECIFICATIONS HEREIN INCLUDING AISC'S LATEST EDITION. SHOP DRAWINGS (CERTIFIED BY THE STRUCTURAL ENGINEER) SHALL BE SUBMITTED FOR REVIEW PRIOR TO ANY FABRICATION. SHOP DRAWINGS SHALL SPECIFY LOADS IMPOSED ON THE SUPPORTING STRUCTURE. (REVIEW OF SAID DRAWINGS BY THE ENGINEER OF RECORD SHALL BE SOLELY FOR COORDINATION AND SHALL NOT CONSTITUTE A RECERTIFICATION OR APPROVAL THAT THE DESIGN MEETS THE PROJECT DESIGN REQUIREMENTS.)

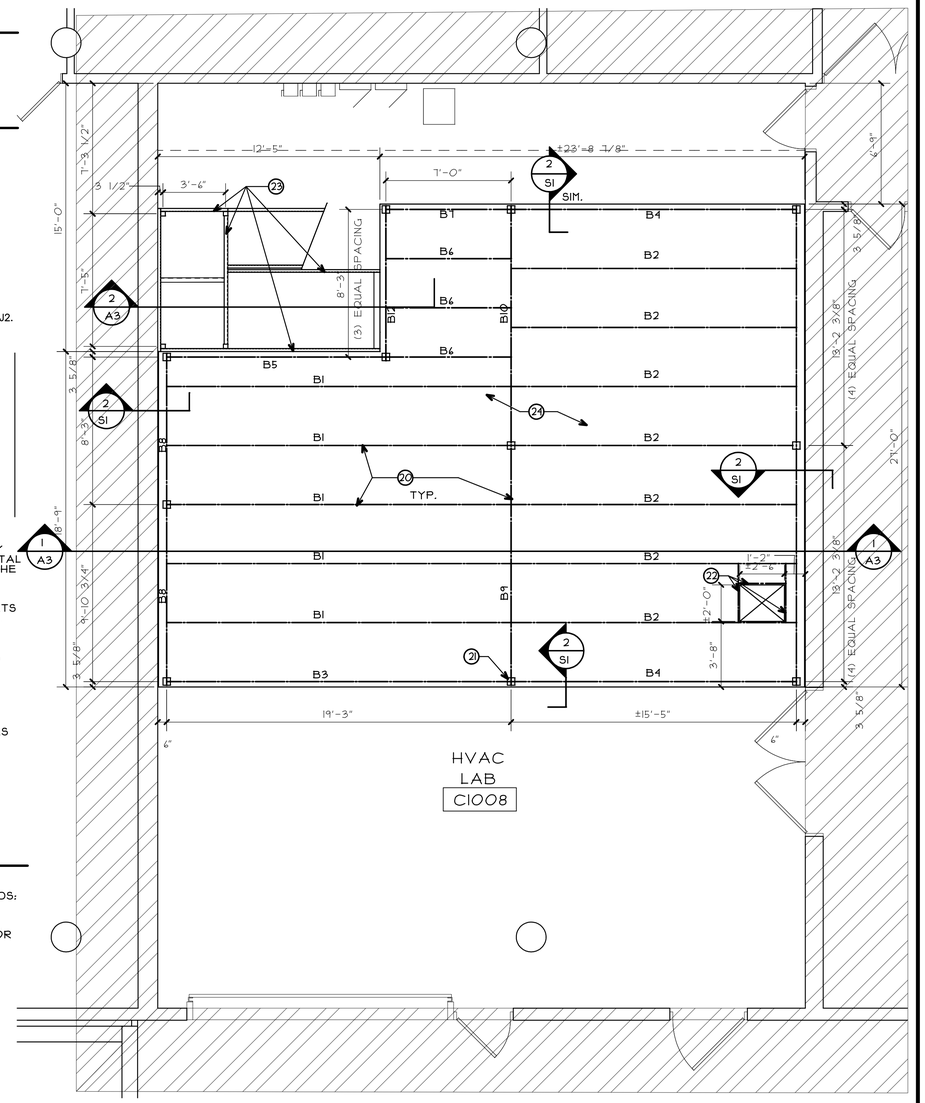
CONCRETE NOTES

ALL STRUCTURAL CONCRETE WORK SHALL CONFORM TO THE REQUIREMENTS AND RECOMMENDATIONS/SUGGESTIONS OF THE LATEST EDITIONS OF THE FOLLOWING "AMERICAN CONCRETE INSTITUTE" (ACI) SPECIFICATIONS/STANDARDS: "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318), "SPECIFICATIONS FOR STRUCTURAL CONCRETE" (ACI 301), AND OTHER PERTINENT "ACI" SPECIFICATIONS/STANDARDS (GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE - ACI 304, GUIDE TO FORMWORK FOR CONCRETE - ACI 347, EC.).

ALL REINFORCING AND ACCESSORIES SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE LATEST EDITION OF THE "AMERICAN CONCRETE INSTITUTE" STANDARDS: "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" (ACI 315) AND "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" (ACI 315R).

ALL CONCRETE SHALL REACH AN ULTIMATE 28 DAY COMPRESSIVE STRENGTH (F'c) AS FOLLOWS:

FOUNDATIONS:	2500 PSI
REINFORCING STEEL:	ASTM A615, GRADE 60
WELDED WIRE FABRIC:	ASTM A185, Fy=60 KSI



NORTH

NEW SECOND FLOOR FRAMING PLAN

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

FOOTING PLAN KEY NOTES

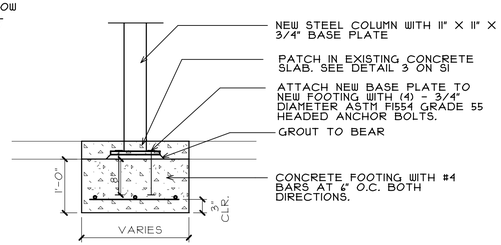
1. PROVIDE HSS 5 X 5 X1/4 STEEL COLUMN WITH 3/4" X 11" X 11" METAL BASE PLATE SET IN CONCRETE SLAB. SEE SECTIONS AND DETAILS FOR COLUMN BASE CONNECTION.
2. SAW CUT AND REMOVE PORTION OF EXISTING FLOOR SLAB TO PROVIDE NEW CONCRETE FOOTING. (TOP OF FOOTING TO BE 4" BELOW TOP OF EXISTING SLAB) SEE FOOTING SCHEDULE. AFTER NEW STEEL COLUMN IS INSTALLED PATCH IN EXISTING SLAB. SEE SECTIONS AND DETAILS
3. NEW PAINTED STEEL COLUMNS BY STAIR MANUFACTURER MOUNTED TO TOP OF FLOOR SLAB.
4. PORTION OF EXISTING TRENCH DRAIN TO REMAIN. (V.I.F.)
5. PATCH IN EXISTING CONCRETE SLAB AT REMOVED PORTION OF EXISTING TRENCH DRAIN AND DOWEL INTO EXISTING. SEE DETAIL 3 ON SHEET S1.

FRAMING PLAN KEY NOTES

20. PROVIDE NEW STEEL BEAM NEW SECOND FLOOR FRAMING. SEE BEAM SCHEDULE
21. NEW STEEL COLUMNS. SEE FOOTING PLAN
22. PROVIDE STEEL FRAMED OPENING NEW SECOND FLOOR STRUCTURE WITH 3 1/2" X 3 1/2" X 3/8" STEEL ANGLE
23. NEW STAIR FRAMING DESIGNED BY STAIR MANUFACTURER
24. PROVIDE 3 1/2" CONCRETE SLAB WITH 6X6-W1.4XW1.4 W.W.F. ON 1 1/2" VL 22 GA. METAL DECKING.

BEAM SCHEDULE	
MARK	SIZE
B1	W8 X 28
B2	W8 X 18
B3	W8 X 18
B4	W8 X 15
B5	W8 X 18
B6	W8 X 10
B7	W8 X 10
B8	W8 X 18
B9	W12 X 30
B10	W12 X 26
B11	W8 X 24
B12	W8 X 18

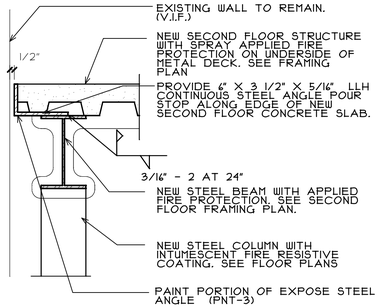
FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
F1	2'-0" X 2'-0" X 1'-0"	#4 AT 6" EACH WAY BOTTOM
F2	3'-0" X 3'-0" X 1'-0"	#4 AT 6" EACH WAY BOTTOM
F3	4'-0" X 4'-0" X 1'-0"	#4 AT 6" EACH WAY BOTTOM
F4	1'-0" X 4'-0" X 1'-0"	#4 AT 6" EACH WAY BOTTOM
F5	2'-0" X 4'-6" X 1'-0"	#4 AT 6" EACH WAY BOTTOM



ASSUMED NET ALLOWABLE BEARING PRESSURE = 2,500 P.S.I.

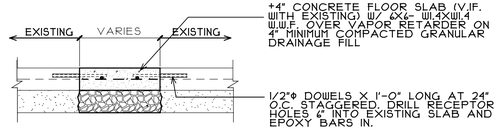
1 / S1 DETAIL AT NEW COLUMN FOOTING

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



2 / S1 DETAIL AT FLOOR EDGE

SCALE: 1 1/2" = 1'-0"



3 / S1 DETAIL AT CONCRETE FLOOR SLAB PATCH

NO SCALE

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HVAC LAB UPDATE

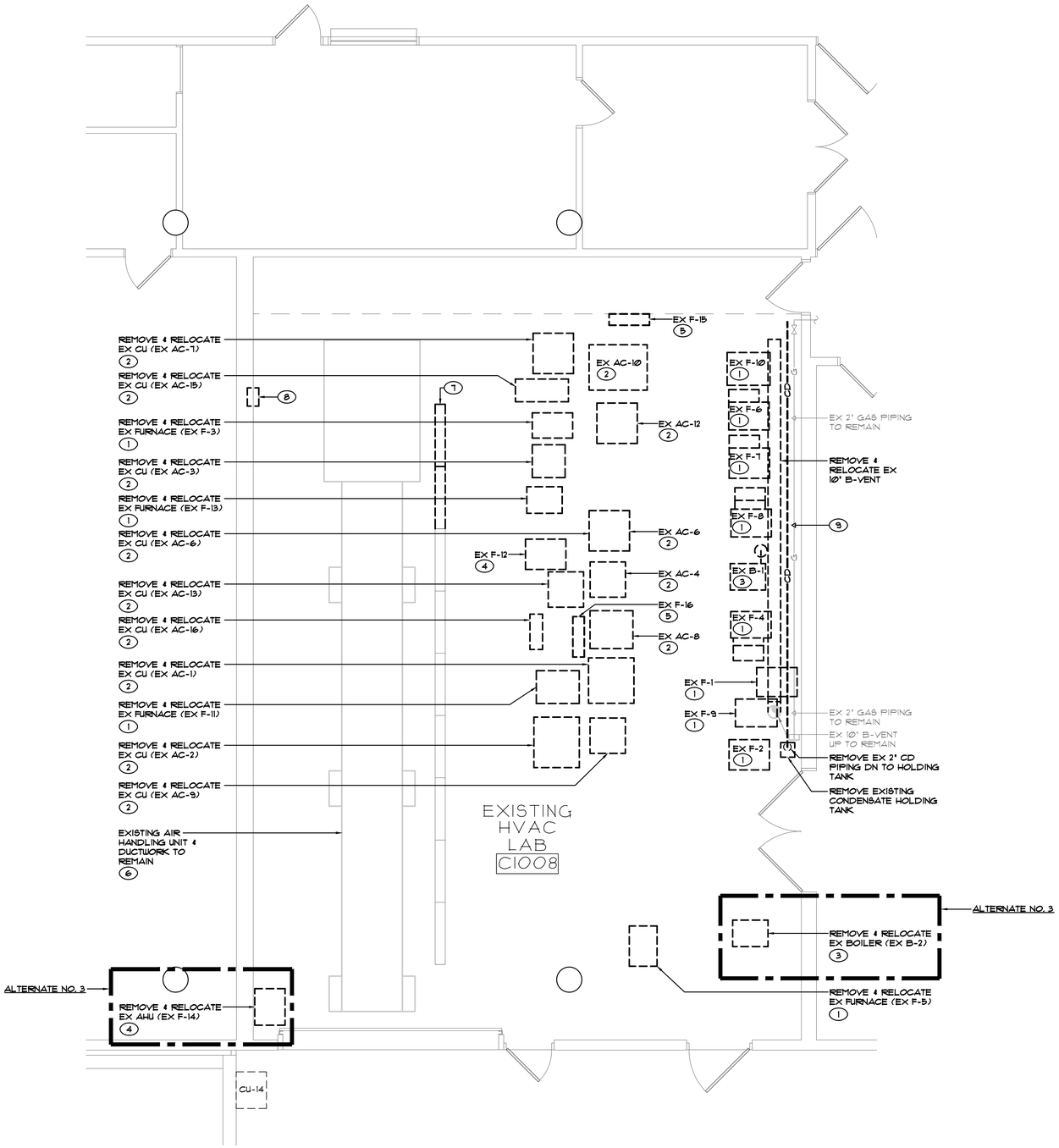
JOLIET JUNIOR COLLEGE - BUILDING C
1215 HOUBOLT ROAD
JOLIET, ILLINOIS

DATE: 3/10/2022
REVISED:

PROJECT NO. 2202-01

SHEET NUMBER S1

OF 1 SHEETS



MECHANICAL FIRST FLOOR DEMOLITION PLAN

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

NORTH

GENERAL NOTES

1. REFER TO ARCHITECTURAL SHEETS AND SPECIFICATIONS FOR ALTERNATES AND SCOPE OF WORK.

SHEET NOTES

1. EXISTING FURNACES:
   - FURNACE TO BE DISCONNECTED AND STORED BY OWNER IN OWNER PROVIDED STORAGE CONTAINER IN BASE BID. (U.N.O.).
   - REMOVE EXISTING GAS PIPING BACK TO THE MAIN AND CAP FOR FUTURE CONNECTION TO RELOCATED FURNACE.
   - REMOVE ALL EXISTING CONDENSATE PIPING SERVING EQUIPMENT. CONDENSATE PUMP TO REMAIN.
   - REMOVE EXISTING FLUE BACK TO EXISTING 10" COMMON HEADER FOR NON-CONDENSING FURNACE.
   - REMOVE EXISTING PVC FLUE BACK TO VERTICAL RISER FOR CONDENSING FURNACE.
   - REMOVE EXISTING THERMOSTAT, CONTROL WIRING, HUMIDIFIER (IF INSTALLED), CONDENSATE PIPING AND PUMP (IF INSTALLED) AND CONTROLS, SUPPLY DUCTWORK, RETURN DUCTWORK ETC FROM FURNACE.
   - SAVE AC COIL, THERMOSTAT, HUMIDIFIER AND CONTROLS (IF INSTALLED), SUPPLY DUCTWORK, RETURN DUCTWORK IN A SAFE PLACE FOR RECONNECTION TO RELOCATED FURNACE.
   - CONTRACTOR TO VERIFY EXISTING CONDITIONS OF EACH SYSTEM INCLUDING, PIPE SIZE, FLUE SIZE AND EXTENT OF DEMOLITION ETC.

2. EXISTING CONDENSING UNITS:
   - CONDENSING UNITS TO BE DISCONNECTED AND STORED BY OWNER IN OWNER PROVIDED STORAGE CONTAINER IN BASE BID. (U.N.O.).
   - RECLAIM EXISTING REFRIGERANT FROM REFRIGERATION PIPING CIRCUIT.
   - REMOVE EXISTING REFRIGERATION PIPING BETWEEN EXISTING FURNACE AC COIL AND CONDENSING UNIT.
   - STORE EXISTING AC COIL WITH ASSOCIATED FURNACE AND STORE IN SAFE PLACE FOR RECONNECTION.
   - CONTRACTOR TO VERIFY EXISTING CONDTIONS OF EACH SYSTEM INCLUDING, REFRIGERATION PIPE SIZE AND EXTENT OF DEMOLITION ETC.

3. EXISTING BOILER:
   - DISCONNECT EXISTING GAS AND CONDENSATE PIPING BACK TO THEIR MAINS AND CAP FOR FUTURE EXTENSION TO BOILER. BOILER TO BE REMOVED AND REINSTALLED IN THE SAME LOCATION.
   - REMOVE EXISTING FLUE BACK TO EXISTING 10" COMMENT HEADER.
   - DRAIN WATER AND DEMOISH ANY ASSOCIATED HWS AND HWR PIPING BACK TO ASSOCIATED EQUIPMENT AND CAP FOR FUTURE CONNECTION TO BOILER.
   - CONTRACTOR TO VERIFY EXISTING CONDTIONS OF EACH BOILER SYSTEM INCLUDING, HWS AND HWR PIPE SIZE AND EXTENT OF DEMOLITION ETC.

4. EXISTING AIR HANDLER:
   - REMOVE EXISTING DUCTWORK, HWS AND HWR PIPING AND CONTROLS.
   - REMOVE ALL EXISTING CONDENSATE PIPING SERVING EQUIPMENT. CONDENSATE PUMP TO REMAIN.
   - CONTRACTOR TO VERIFY EXISTING CONDTIONS OF EACH AIR HANDLER SYSTEM INCLUDING, ALL DUCTWORK, HWS AND HWR PIPE SIZE AND EXTENT OF DEMOLITION ETC.

5. EXISTING DUCTLESS SPLIT SYSTEM:
   - DUCTLESS SPLIT SYSTEM TO BE DISCONNECTED AND STORED BY OWNER IN OWNER PROVIDED STORAGE CONTAINER IN BASE BID. (U.N.O.).
   - REMOVE EXISTING DUCTLESS SPLIT SYSTEM AND ALL INTERCONNECTING REFRIGERANT PIPING AND CONTROLS.
   - REMOVE ALL EXISTING CONDENSATE PIPING SERVING EQUIPMENT. CONDENSATE PUMP TO REMAIN.

6. EXISTING AIR HANDLER SERVING HVAC LAB:
   - PROVIDE RETURN AIR FILTERS DURING CONSTRUCTION.
   - EXISTING TO REMAIN WITH NO WORK.

7. EXISTING TRENCH DRAIN COVER
   - REMOVE TRENCH DRAIN COVER.

8. EXISTING LAUNDRY OUTLET BOX
   - REMOVE LAUNDRY BOX. PATCH WALL TO MATCH EXISTING. SEE ARCHITECTURAL SHEET.
   - DEMOLISH DOMESTIC PIPING BACK TO MAINS AND CAP.

9. EXISTING RADIANT HEATING PANEL
   - EXISTING RADIANT HEATING PIPING TO BE DISCONNECTED FROM BOILER PIPING PRIOR TO BOILER RELOCATION.

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2202-01

SHEET NUMBER
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OF 1 SHEETS

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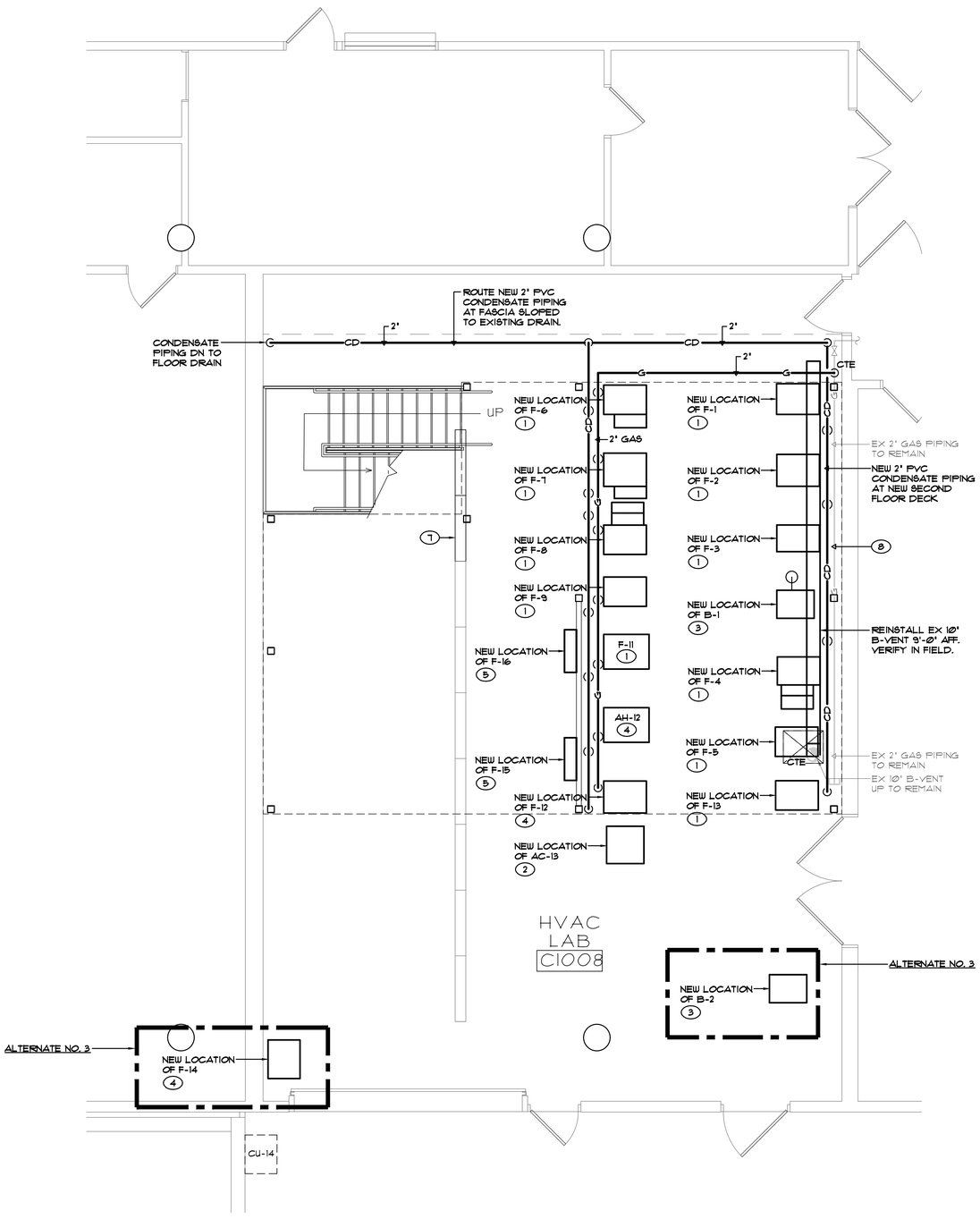

MECHANICAL FIRST FLOOR PLAN

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

NORTH

GENERAL NOTES

1. REFER TO ARCHITECTURAL SHEETS AND SPECIFICATIONS FOR ALTERNATES AND SCOPE OF WORK.

SHEET NOTES

1. EXISTING FURNACES:
   - EXTEND NEW GAS AND CONDENSATE PIPING TO RELOCATED FURNACE. COORDINATE PIPE SIZING AND ROUTING TO RELOCATED EQUIPMENT AS REQUIRED.
   - EXTEND A NEW METAL FLUE FROM RELOCATED 10" B-VENT HEADER TO NON-CONDENSING FURNACE. INSTALL, SIZE AND ROUTE FLUE PER MANUFACTURERS RECOMMENDATIONS.
   - EXTEND A NEW PVC FLUE FROM EXISTING VERTICAL FLUE TO EXISTING CONDENSING FURNACE. EXTEND NEW PVC COMBUSTION AIR PIPE FROM VERTICAL INTAKE TO CONDENSING FURNACE. INSTALL, SIZE AND ROUTE FLUE PER MANUFACTURERS RECOMMENDATIONS.
   - RECONNECT EXISTING AC COIL, THERMOSTAT, CONTROL WIRING, HUMIDIFIER (IF INSTALLED), CONTROLS, SUPPLY DUCTWORK, RETURN DUCTWORK ETC TO EXISTING FURNACE.
   - PROVIDE NEW CONDENSATE PIPING AND RECONNECT EXISTING PUMP TO NEW PIPING HEADER.
   - VERIFY ALL PIPING SYSTEMS AND FLUE SIZES FOR NEW CONDITIONS.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

2. RELOCATED CONDENSING UNITS:
   - EXTEND NEW REFRIGERATION PIPING BETWEEN EXISTING FURNACE AC COIL AND RELOCATED CONDENSING UNIT. UTILIZE NEW 3" PVC PIPE SLEEVES THROUGH THE FLOOR DECK. SIZE AND ROUTE PER MANUFACTURERS RECOMMENDATIONS.
   - RECHARGE UNIT WITH THE SAME REFRIGERANT PER MANUFACTURERS RECOMMENDATIONS.
   - CONTRACTOR TO VERIFY EXISTING CONDITIONS AND PIPE ROUTING IN FIELD.
   - SUPPORT PIPING AS REQUIRED.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

3. EXISTING BOILER:
   - INSTALL EXISTING BOILER IN PREVIOUS LOCATION.
   - REFILL SYSTEM AND EXTEND NEW HWS, HWR, GAS TO EXISTING BOILER USING THE SAME SIZE PIPING AS PREVIOUSLY CONNECTED. PROVIDE ANY WATER CHEMICALS AS REQUIRED. COORDINATE ALL PIPE ROUTING TO EQUIPMENT AS REQUIRED. VERIFY ALL PIPE SIZES FOR NEW CONDITIONS.
   - INSTALL, SIZE AND ROUTE FLUE PER MANUFACTURERS RECOMMENDATIONS. FLUE MATERIAL TO MATCH EXISTING. VERIFY FLUE SIZE FOR NEW CONDITIONS.
   - VERIFY ALL PIPING SYSTEMS SIZES FOR NEW CONDITIONS.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

4. EXISTING AIR HANDLER:
   - RECONNECT EXISTING SUPPLY AND RETURN DUCTWORK TO AIR HANDLER.
   - RECONNECT ALL EXISTING ACCESSORIES.
   - EXTEND NEW HWS AND HWR PIPING AND CONTROLS TO RELOCATED AIR HANDLER.
   - PROVIDE NEW CONDENSATE PIPING AND RECONNECT EXISTING PUMP TO NEW PIPING HEADER.
   - INSTALL, SIZE AND ROUTE PIPING PER MANUFACTURERS RECOMMENDATIONS.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

5. EXISTING DUCTLESS SPLIT SYSTEM:
   - RECONNECT AND EXTEND AS REQUIRED THE EXISTING DUCTLESS SPLIT SYSTEM AND ALL INTERCONNECTING REFRIGERANT PIPING AND ACCESSORIES, CONDENSATE PIPING, PUMP AND CONTROLS TO RELOCATED CONDENSING UNIT.
   - RECHARGE UNIT WITH THE SAME REFRIGERANT PER MANUFACTURERS RECOMMENDATIONS.
   - SIZE AND ROUTE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
   - PROVIDE NEW CONDENSATE PIPING AND RECONNECT EXISTING PUMP TO NEW PIPING HEADER.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

6. EXISTING AIR HANDLER SERVING HVAC LAB:
   - PROVIDE RETURN AIR FILTERS DURING CONSTRUCTION.
   - EXISTING TO REMAIN WITH NO WORK.

7. EXISTING TRENCH DRAIN COVER
   - PROVIDE NEW STAINLESS-STEEL BLANK-OFF COVER SET DOWN IN TRENCH DRAIN. SECURE AND SEAL TO TRENCH DRAIN.

8. EXISTING RADIANT HEATING PANEL
   - EXTEND NEW PIPING FROM EXISTING RADIANT HEATING PANELS TO EXISTING RELOCATED BOILER.
   - INSTALL, SIZE AND ROUTE PIPING PER MANUFACTURERS RECOMMENDATIONS.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

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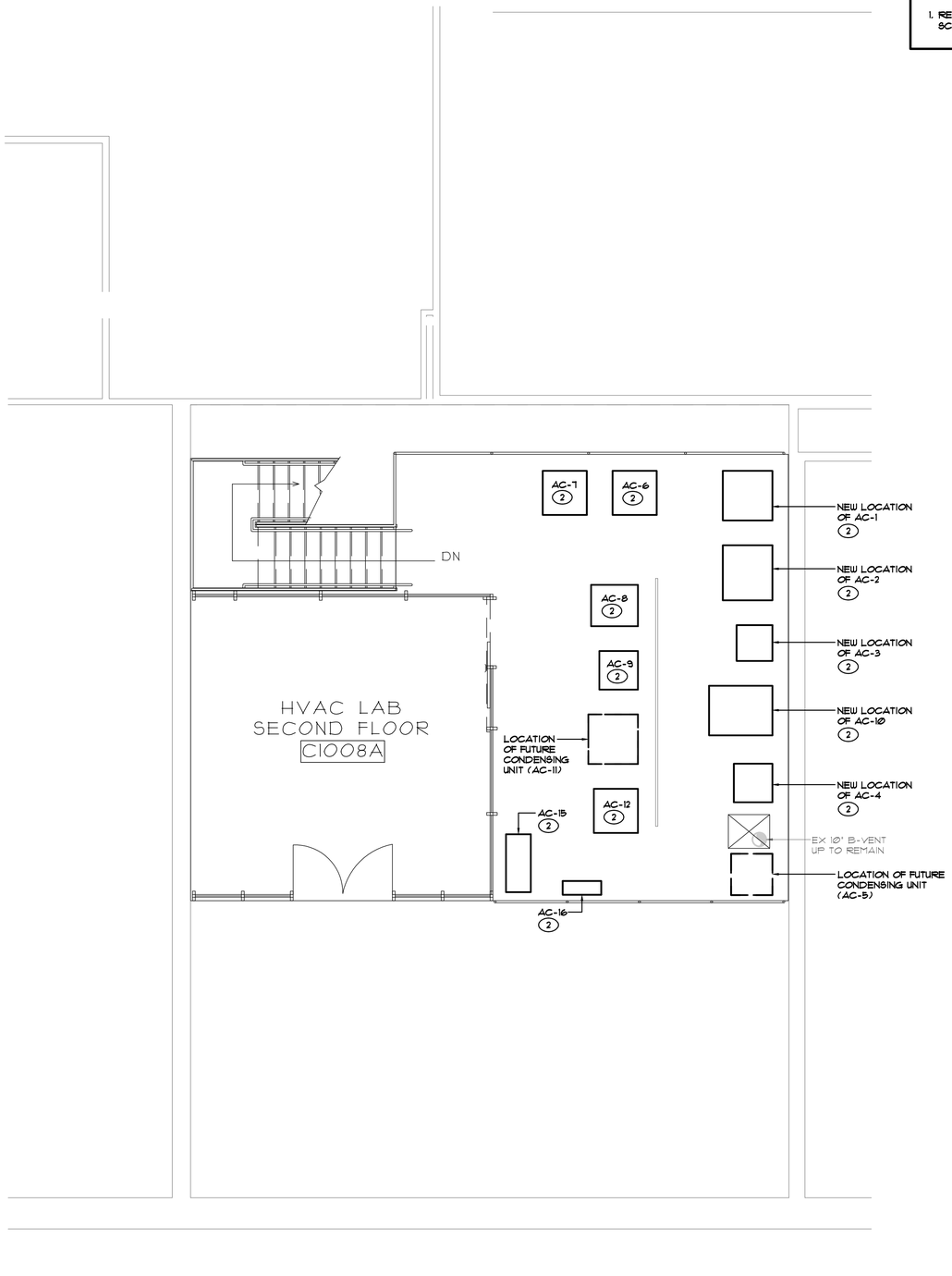

MECHANICAL SECOND FLOOR PLAN

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

NORTH

GENERAL NOTES

1. REFER TO ARCHITECTURAL SHEETS AND SPECIFICATIONS FOR ALTERNATES AND SCOPE OF WORK.

SHEET NOTES

1. EXISTING FURNACES:
   - EXTEND NEW GAS AND CONDENSATE PIPING TO RELOCATED FURNACE. COORDINATE PIPE SIZING AND ROUTING TO RELOCATED EQUIPMENT AS REQUIRED.
   - EXTEND A NEW METAL FLUE FROM RELOCATED 10" B-VENT HEADER TO NON-CONDENSING FURNACE. INSTALL, SIZE AND ROUTE FLUE PER MANUFACTURERS RECOMMENDATIONS.
   - EXTEND A NEW PVC FLUE FROM EXISTING VERTICAL FLUE TO EXISTING CONDENSING FURNACE. EXTEND NEW PVC COMBUSTION AIR PIPE FROM VERTICAL INTAKE TO CONDENSING FURNACE. INSTALL, SIZE AND ROUTE FLUE PER MANUFACTURERS RECOMMENDATIONS.
   - RECONNECT EXISTING AC COIL, THERMOSTAT, CONTROL WIRING, HUMIDIFIER (IF INSTALLED), CONTROLS, SUPPLY DUCTWORK, RETURN DUCTWORK ETC TO EXISTING FURNACE.
   - PROVIDE NEW CONDENSATE PIPING AND RECONNECT EXISTING PUMP TO NEW PIPING HEADER.
   - VERIFY ALL PIPING SYSTEMS AND FLUE SIZES FOR NEW CONDITIONS.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

2. RELOCATED CONDENSING UNITS:
   - EXTEND NEW REFRIGERATION PIPING BETWEEN EXISTING FURNACE AC COIL AND RELOCATED CONDENSING UNIT. UTILIZE NEW 3" PVC PIPE SLEEVES THROUGH THE FLOOR DECK. SIZE AND ROUTE PER MANUFACTURERS RECOMMENDATIONS.
   - RECHARGE UNIT WITH THE SAME REFRIGERANT PER MANUFACTURERS RECOMMENDATIONS.
   - CONTRACTOR TO VERIFY EXISTING CONDITIONS AND PIPE ROUTING IN FIELD.
   - SUPPORT PIPING AS REQUIRED.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

3. EXISTING BOILER:
   - INSTALL EXISTING BOILER IN PREVIOUS LOCATION.
   - REFILL SYSTEM AND EXTEND NEW HWS, HWR, GAS TO EXISTING BOILER USING THE SAME SIZE PIPING AS PREVIOUSLY CONNECTED. PROVIDE ANY WATER CHEMICALS AS REQUIRED. COORDINATE ALL PIPE ROUTING TO EQUIPMENT AS REQUIRED. VERIFY ALL PIPE SIZES FOR NEW CONDITIONS.
   - INSTALL, SIZE AND ROUTE FLUE PER MANUFACTURERS RECOMMENDATIONS. FLUE MATERIAL TO MATCH EXISTING. VERIFY FLUE SIZE FOR NEW CONDITIONS.
   - VERIFY ALL PIPING SYSTEMS SIZES FOR NEW CONDITIONS.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

4. EXISTING AIR HANDLER:
   - RECONNECT EXISTING SUPPLY AND RETURN DUCTWORK TO AIR HANDLER.
   - RECONNECT ALL EXISTING ACCESSORIES.
   - EXTEND NEW HWS AND HWR PIPING AND CONTROLS TO RELOCATED AIR HANDLER.
   - PROVIDE NEW CONDENSATE PIPING AND RECONNECT EXISTING PUMP TO NEW PIPING HEADER.
   - INSTALL, SIZE AND ROUTE PIPING PER MANUFACTURERS RECOMMENDATIONS.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

5. EXISTING DUCTLESS SPLIT SYSTEM:
   - RECONNECT AND EXTEND AS REQUIRED THE EXISTING DUCTLESS SPLIT SYSTEM AND ALL INTERCONNECTING REFRIGERANT PIPING AND ACCESSORIES, CONDENSATE PIPING, PUMP AND CONTROLS TO RELOCATED CONDENSING UNIT.
   - RECHARGE UNIT WITH THE SAME REFRIGERANT PER MANUFACTURERS RECOMMENDATIONS.
   - SIZE AND ROUTE REFRIGERANT LINES PER MANUFACTURERS RECOMMENDATIONS.
   - PROVIDE NEW CONDENSATE PIPING AND RECONNECT EXISTING PUMP TO NEW PIPING HEADER.
   - CONTRACTOR TO TEST AND VERIFY OPERATION OF EACH SYSTEM WHEN WORK IS COMPLETE.

6. EXISTING AIR HANDLER SERVING HVAC LAB:
   - PROVIDE RETURN AIR FILTERS DURING CONSTRUCTION.
   - EXISTING TO REMAIN WITH NO WORK.

7. EXISTING TRENCH DRAIN COVER
   - PROVIDE NEW STAINLESS-STEEL BLANK-OFF COVER SET DOWN IN TRENCH DRAIN. SECURE AND SEAL TO TRENCH DRAIN.

8. EXISTING RADIANT HEATING PANEL
   - EXTEND NEW PIPING FROM EXISTING RADIANT HEATING PANELS TO EXISTING RELOCATED BOILER.
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SHEET NUMBER M2

OF 3 SHEETS

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MECHANICAL SPECIFICATIONS

PART 1 - GENERAL

1.1 FURNISH AND INSTALL ALL LABOR AND MATERIALS NECESSARY TO PROVIDE A COMPLETE INSTALLATION OF ALL MECHANICAL SERVICES AND SYSTEMS INDICATED AND AS MAY BE REQUIRED TO MAKE THE WORK COMPLETE FOR THE PURPOSE INTENDED. LAYOUTS SHOWN ARE DIAGRAMMATIC - INSTALL DUCTWORK, PIPING AND EQUIPMENT TO MEET ACTUAL FIELD CONDITIONS.

1.2 BIDDING REQUIREMENTS: VISIT SITE PRIOR TO BECOME BIDDING TO FULLY ACQUAINTED WITH ALL FIELD CONDITIONS AND TO DETERMINE FULL EXTENT OF WORK REQUIRED. COORDINATE NEW INSTALLATIONS WITH EXISTING SYSTEMS. ANY ITEMS NOT SPECIFICALLY INDICATED ON DRAWINGS THAT ARE IN CONFLICT WITH CONTRACT WORK SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO BID FOR A DECISION. BIDDERS SHALL ACQUAINT THEMSELVES WITH THE WORKING CONDITIONS AND REQUIREMENTS OF THE ENTIRE PROJECT, AS ANY CONTRACT FOR THIS WORK WILL BE BASED UPON FURNISHING ALL LABOR AND MATERIALS REQUIRED TO ENTIRELY COMPLETE WORK READY FOR USE.

1.3 CODES: ALL WORK SHALL COMPLY WITH LOCAL, MUNICIPAL, STATE HVAC CODES. ALL MATERIALS SHALL BE IN COMPLIANCE WITH NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS.

1.4 OBTAIN AND PAY FOR ALL LICENSES, PERMITS AND INSPECTIONS FOR ALL WORK REQUIRED. ALL CERTIFICATES OF INSPECTION SHALL BE DELIVERED TO THE OWNER.

1.5 WARRANTY ANY DEFECTS TO ALL EQUIPMENT, MATERIALS AND LABOR FOR A PERIOD OF ONE (1) YEAR AFTER FINAL ACCEPTANCE OF THE BUILDING BY THE ARCHITECT AND ENGINEER (FIVE YEARS FOR REFRIGERATION COMPRESSORS - PARTS AND LABOR). DEFECTIVE EQUIPMENT AND MATERIALS SHALL BE REPAIRED OR REPLACED AT NO COST TO THE OWNER. GUARANTEE THAT ALL WORKMANSHIP IS OF HIGH QUALITY AND THAT ALL EQUIPMENT FURNISHED UNDER THIS CONTRACT FULFILLS THE REQUIREMENTS OF THE SPECIFICATIONS. CONDUCT, AT NO COST TO THE OWNER, CAPACITY TESTS ON ANY EQUIPMENT FURNISHED BY HIM WHEN SO REQUESTED BY THE ARCHITECT OR HIS REPRESENTATIVE WITHIN THE ONE YEAR PERIOD.

PART 2 - AIR DISTRIBUTION SYSTEMS

2.1 DUCTWORK TO BE GALVANIZED SHEETMETAL FABRICATED ACCORDING TO SMACNA'S DUCT CONSTRUCTION STANDARDS (LATEST EDITION). UTILIZE PITTSBURGH LOCK SEAMS FOR ALL LONGITUDINAL SEAMS (NO EXCEPTIONS). SEAL ALL JOINTS AND SEAMS FOR AN AIRTIGHT INSTALLATION. EXPOSED DUCTWORK AND SHEETMETAL PANS IN FINISHED AREAS ARE TO BE PROVIDED WITH PAINT-GRIP READY FOR PRIMING AND PAINTING. ALL EXPOSED ROUND DUCTWORK TO BE SPIRAL TYPE DUCTWORK AND FITTINGS.

PART 3 - HVAC PIPING & ACCESSORIES:

3.1 NATURAL GAS PIPING TO BE SCHEDULE 40 BLACK STEEL PIPE ASTM A-120 WITH MALLEABLE FITTINGS. PROVIDE GAS COCKS (CRANE 80E) AND DRIP LEG AT EACH PIECE OF EQUIPMENT. MAKE SOAP TEST ON ALL PIPING TO PROVIDE TIGHT. COORDINATE SERVICE INSTALLATION WITH LOCAL UTILITY COMPANY. EXTERIOR PIPING TO BE PAINTED WITH ONE COAT OF RUSTOLEUM PAINT (APPROVED COLOR). PROVIDE PRESSURE REGULATORS WHERE REQUIRED - VENTED TO ATMOSPHERE.

3.2 GAS VALVES: VALVES 2" AND UNDER SHALL BE SQUARE HEAD, BRONZE COCK, CRANE #80E. VALVES 2-1/2" AND OVER SHALL BE LUBRICATING PLUG COCK, A.C.F.R. #431.

3.3 REFRIGERANT PIPING TO BE TYPE "L" HARD ACR COPPER TUBING WITH ½" THICK ARMAFLEX 'FR' PIPING INSULATION, SIGHT GLASSES, SOLENOID VALVES, SUCTION TRAPS, & FILTER-DRIERS. ENTIRE INSTALLATION, INCLUDING PIPE SIZING AND PIPE DIAGRAMS, TO BE AS PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS FOR THE ACTUAL FIELD ROUTING AND EQUIPMENT PROVIDED.

3.4 CONDENSATE PIPING TO BE INSULATED COPPER TYPE "L" OR, IF NOT LOCATED IN RETURN AIR PLENUM, INSULATED SCHEDULE 40 PVC PIPING, ROUTED TO NEAREST FLOOR DRAIN OR WHERE INDICATED ON DRAWINGS. PUMP AND PITCH ALL CONDENSATE DRAIN LINES TO LOCATION SHOWN ON PLAN. PROVIDE CLEANOUTS ON CONDENSATE DRAIN LINES WHERE FLOW DIRECTION CHANGES.

3.5 HOT WATER HEATING PIPING TO BE ASTM A53, SCHEDULE 40 (BLACK STEEL) STANDARD WEIGHT PIPING. PIPE 2-1/2" AND SMALLER MAY HAVE SCREWED JOINTS WITH LONG LENGTHS CONNECTED BY COUPLINGS. WHERE FITTINGS ARE NECESSARY, THEY SHALL BE STANDARD WEIGHT MALLEABLE IRON SCREWED FITTINGS OF APPROVED MAKE AND GROUND JOINT BRASS LINED UNIONS SHALL BE USED WHERE NECESSARY AND AT CONNECTIONS WITH APPARATUS. NO FIELD FABRICATED FITTINGS WILL BE PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE. THE MINIMUM SIZE FOR HOT WATER HEATING SUPPLY AND RETURN PIPING IS TO BE 3/4".

3.6 VALVES SHALL HAVE MINIMUM 125 PSI PRESSURE RATING AND SHALL BE AS SHOWN OR AS REQUIRED TO SUIT JOB CONDITIONS. VALVES TO BE AS MANUFACTURED BY NIBCO, MILWAUKEE VALVE, STOCKHAM, CRANE, WATTS.

3.7 FITTINGS, VALVES AND FLANGES SHALL BE INSULATED WITH JOHNS MANVILLE ZESTON PVC FITTING COVERS AND HI-LO TEMP INSULATION (OR APPROVED EQUAL). TWO (2) LAYERS OF FACTORY PRECUT HI-LO TEMP INSULATION INSERTS SHALL BE APPLIED TO FITTINGS WITH THE FIRST LAYER WRAPPED WITH FIBERGLASS YARN.

3.8 BALANCING VALVES: PROVIDE COMBINATION BALANCING, POSITIVE SHUT-OFF, AND FLOW MEASURING FITTINGS TYPE CIRCUIT SETTERS. UNITS SHALL BE OF BRONZE CONSTRUCTION DESIGNED FOR 125 POUND WORKING PRESSURE AT 250° F. UNITS TO BE COMPLETE WITH NAMEPLATES, MEMORY STOP INDICATOR, DRAIN AND PURGE CONNECTION, INDICATING POINTERS, METER CONNECTIONS WITH BUILT-IN CHECK VALVES AND INTERNAL SEALS AROUND ROTATING ELEMENTS AND MOLDED INSULATION. CIRCUIT SETTERS TO BE AS MANUFACTURED BY BELL & GOSSETT, GRISWOLD, OR AUTOFLOW.

3.9 STRAINERS FOR WATER SYSTEMS SHALL BE WYE TYPE FILTER STRAINERS RATED AT 400 WOG, 325° F, UNION END WITH PITON SEALS. BASKETS SHALL HAVE A MINIMUM SCREEN AREA OF 2.3 SQ.IN. AND BE CONSTRUCTED OF 20 MESH STAINLESS STEEL. STRAINER BODY SHALL HAVE 1/4" TAPS FOR ACCESSORIES. STRAINERS TO BE AS MANUFACTURED BY BELL & GOSSETT, GRISWOLD OR AUTOFLOW.

3.10 PETE'S PLUGS SHALL BE INSTALLED WHERE INDICATED ON CONTRACT DOCUMENTS AND AT THE INLET AND OUTLET OF COILS AND ACROSS CONTROL VALVES. PETE'S PLUGS SHALL CONSIST OF A 1/4" MPT FITTING TO RECEIVE EITHER A TEMPERATURE OR PRESSURE PROBE 1/8" OUTSIDE DIAMETER. FITTINGS SHALL BE SOLID BRASS WITH TWO (2) VALVE CORES OF NORDEL MAXIMUM 2"150 F AT 500 PSI, FITTED WITH A COLOR CODED AND MARKED CAP WITH GASKET.

3.11 VENTS AND DRAINS SHALL BE EQUAL TO CRANE #171-52 LOOSE KEY TYPE. MANUAL AIR VENTS SHALL BE ACCESSIBLY LOCATED. CONNECT VENT TAPPING AT CONVENIENT AND ACCESSIBLE POINT WHERE THE MANUAL AIR VENT CAN BE LOCATED. DRAIN VALVES SHALL BE EQUAL TO CRANE #59 TYPE WITH HOSE CONNECTIONS TO BE LOCATED IN ACCESSIBLE LOCATIONS. DRAINS AND VENTS CONNECTIONS ON APPARATUS AND EQUIPMENT SHALL BE PROPERLY VALVED AND RUN TO A FLOOR DRAIN OR OPEN HUB DRAIN.

PART 4 - EXECUTION

4.1 EQUIPMENT: ALL EQUIPMENT TO BE RELOCATED AND NSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ALL SUPPORTS AND CONCRETE PADS REQUIRED AND SET EQUIPMENT LEVEL. PROVIDE VIBRATION ISOLATION FOR EACH PIECE OF EQUIPMENT. PROVIDE ALL DUCTWORK, PIPING, CONTROL AND ELECTRICAL CONNECTIONS REQUIRED. PROVIDE FLEXIBLE NEOPRENE COATED DUCTWORK CONNECTIONS TO EQUIPMENT AND BETWEEN SHEETMETAL DUCTWORK. CHARGE REFRIGERANT PIPING SYSTEMS WITH APPROPRIATE REFRIGERANT. START-UP CHECK AND ADJUST EQUIPMENT TO PROPER OPERATING CONDITIONS. PROVIDE ADDITIONAL BELTS, PULLEYS, DRIVES, SHEAVES, ETC. AS REQUIRED TO PROPERLY BALANCE EACH PIECE OF EQUIPMENT.

4.2 DUCTWORK: ROUTE ALL NEW DUCTWORK AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH OTHER TRADES. VERIFY CONDITIONS AND EXACT DUCTWORK ROUTING IN FIELD PRIOR TO INSTALLATION. SEAL ALL DUCTWORK JOINTS AIR-TIGHT.

4.3 PIPING: ROUTE ALL NEW PIPING AS HIGH AS POSSIBLE TO AVOID CONFLICTS WITH OTHER TRADES. VERIFY CONDITIONS AND EXACT ROUTING IN FIELD PRIOR TO INSTALLATION. PIPING TO BE PRESSURE TESTED - SUBMIT REPORTS. PROVIDE DIELECTRIC FITTINGS BETWEEN PIPING OF DISSIMILAR MATERIALS. PROVIDE AIR-VENTS IN ALL HIGH POINTS OF WATER PIPING SYSTEMS.

4.4 DUCTWORK, PIPING, EQUIPMENT, ETC. SHALL NOT BE SUPPORTED FROM THE BOTTOM CHORD OF ENGINEERED JOISTS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.

4.5 COORDINATION: CONFER WITH THE OTHER CONTRACTORS REGARDING THE LOCATION AND SIZES OF DUCTWORK, PIPING AND EQUIPMENT IN ORDER THAT THERE MAY BE NO INTERFERENCES BETWEEN INSTALLATIONS OR THE PROGRESS OF THE WORK FOR ANY CONTRACTOR ON THE BUILDING. LAY OUT WORK TO AVOID CONFLICTS BETWEEN DUCTWORK, LIGHTING, CEILINGS, PIPING AND BUILDING STRUCTURE. COORDINATE ALL EQUIPMENT ELECTRICAL REQUIREMENTS (VOLTAGES, PHASE, LOAD, ETC.) WITH ELECTRICAL CONTRACTOR BEFORE ORDERING ANY EQUIPMENT.

4.6 VERIFY LOCATION AND ELEVATION OF EXISTING EQUIPMENT, DUCTWORK, PIPING, DIFFUSERS/GRILLES, THERMOSTATS, PANELS, ETC. EXPOSED WITHIN OCCUPIED SPACES BEFORE THE START OF ANY ROUGH-IN OR INSTALLATION.

4.7 CUTTING AND PATCHING TO BE PROVIDED SO THE WORK MAY BE PROPERLY INSTALLED. ALL DISTURBED CONSTRUCTION OR FINISH MUST BE REPLACED OR REPAIRED TO THE ARCHITECT'S SATISFACTION AT THIS CONTRACTOR'S EXPENSE. UNDER NO CONDITION SHALL STRUCTURAL WORK BE CUT EXCEPT UPON APPROVAL OF THE ARCHITECT.

4.8 CLEANING: UPON COMPLETION OF INSTALLATION OF VENTILATION DUCTS, CLEAN ENTIRE SYSTEM OF RUBBISH, PLASTER, DIRT, ETC., BEFORE INSTALLING GRILLES OR DIFFUSERS. REMOVE ALL DEBRIS FROM JOB SITE AND LEAVE ALL MECHANICAL EQUIPMENT CLEAN.

SYMBOLS/ABBREVIATIONS

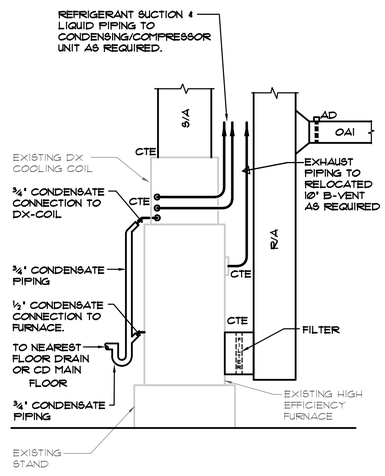
SYMBOL	DESCRIPTION
	EXISTING DUCTWORK
	NEW DUCTWORK
	DUCTWORK TO BE REMOVED
	DUCT TRANSITION
	CAP EXISTING DUCTWORK AS REQUIRED
	NEW DUCTWORK TO TIE INTO EXISTING DUCTWORK
	SUPPLY AIR DUCT DOWN
	SUPPLY AIR DUCT UP
	RETURN OR EXHAUST DUCT DOWN
	RETURN OR EXHAUST DUCT UP
	SHEET NOTE
T	THERMOSTAT - ADJUSTABLE
CD	CONDENSATE DRAIN
HWS	HOT WATER SUPPLY PIPING
HWR	HOT WATER RETURN PIPING
G	GAS PIPING
R	REFRIGERANT PIPE
	PIPING TO BE REMOVED
	EXISTING PIPING
	PIPE TURNED UP
	PIPE TURNED DOWN
	SHUT-OFF VALVE

ABBREVIATIONS	DESCRIPTION
AC	AIR CONDITIONING
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
B	BOILER
CAI	COMBUSTION AIR INTAKE
CD	CONDENSATE DRAIN
CTE	CONNECT TO EXISTING
CU	CONDENSING UNIT
DN.	DOWN
EX	EXISTING
F	FURNACE
G	NATURAL GAS
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN
HW	HOT WATER
L	LIQUID
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
R/A	RETURN AIR
S	SUCTION
S/A	SUPPLY AIR
TC	TEMPERATURE CONTROL
TYP	TYPICAL
V	VENT

FURNACE PIPING DETAIL

N.T.S.

NOTES:
1. TYPICAL FOR ALL EXISTING FURNACES.
2. VERIFY ALL SIZES WITH ACTUAL EQUIPMENT PROVIDED.



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HVAC LAB UPDATE
JOLIET JUNIOR COLLEGE- BUILDING C
1215 HOUBOLT ROAD
JOLIET, ILLINOIS

DATE: 3/10/2022

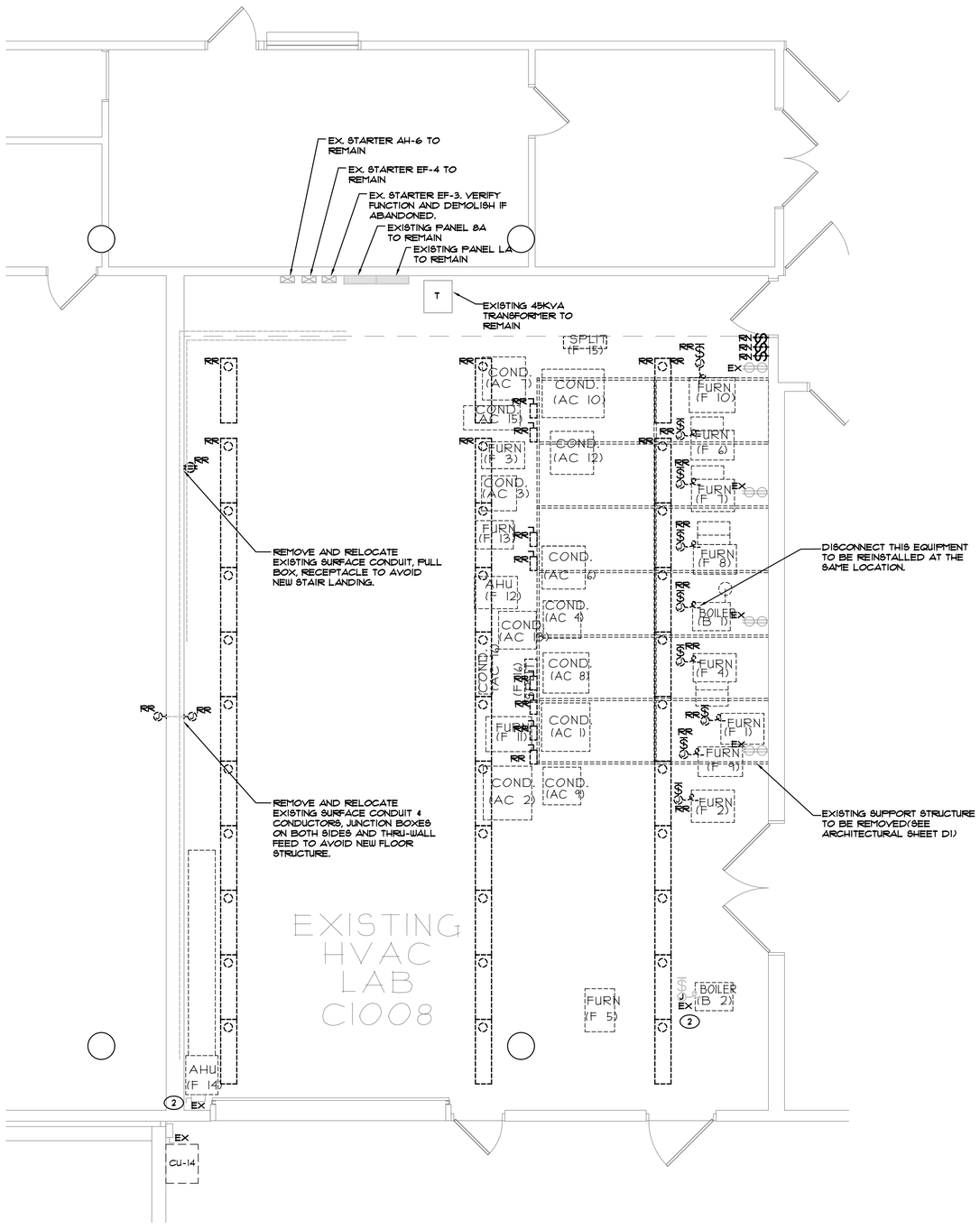
REVISED:

PROJECT NO.
2202-01

SHEET NUMBER
M3
OF 3 SHEETS

DEMO NOTES

1. CONTRACTOR TO VERIFY EXISTING ELECTRICAL CONDITIONS OF EACH AIR HANDLER SYSTEM, AND EXTENT OF DEMOLITION.
2. UNDER BASE BID, NO WORK REQUIRED (EX) UNDER ALTERNATE 3 RESINOUS FLOORING, DISCONNECT THIS UNIT FOR FLOORING INSTALLATION AND RECONNECT WHEN COMPLETE



NORTH

ELECTRICAL FIRST FLOOR DEMOLITION PLAN

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

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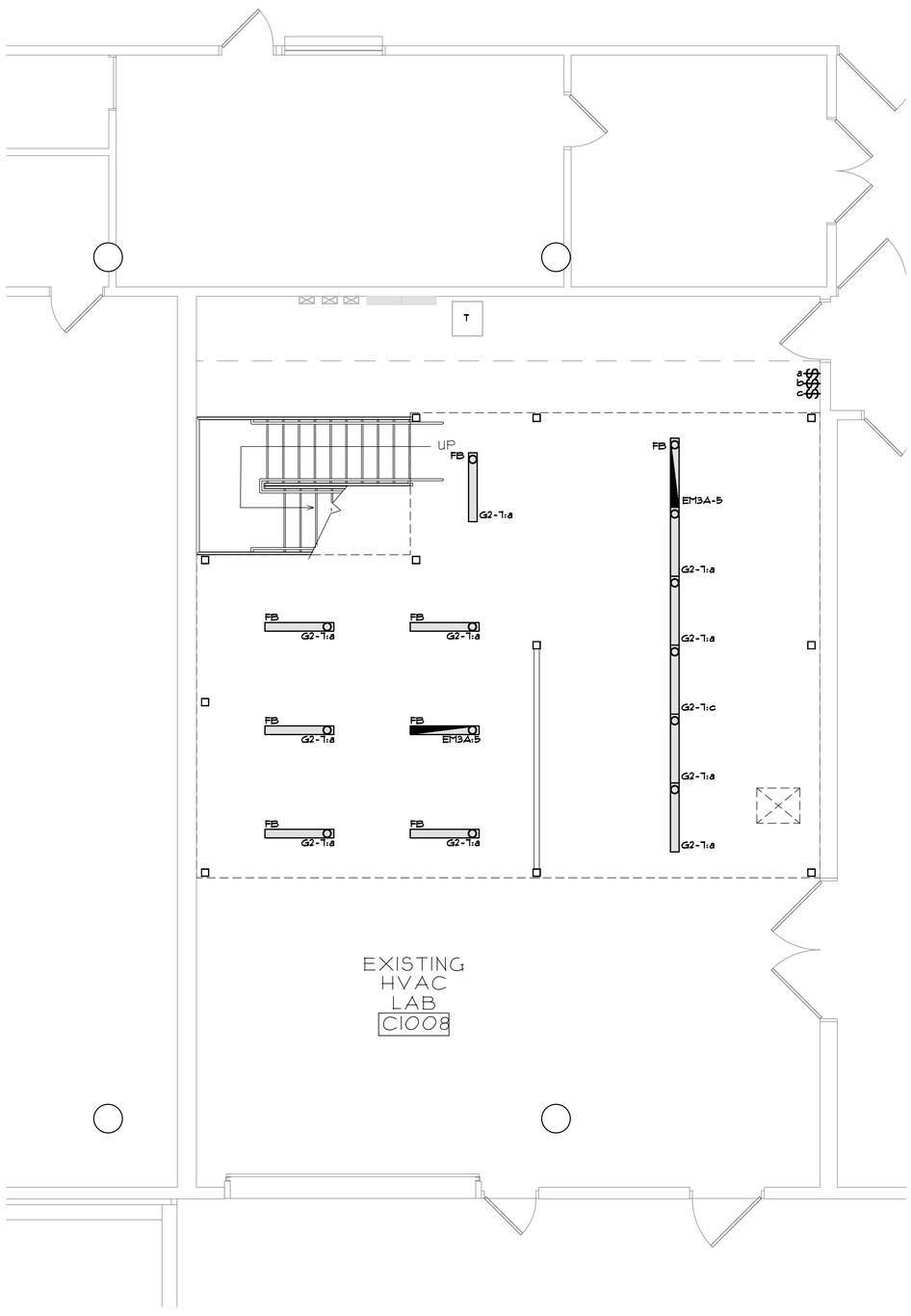
SHEET NOTES

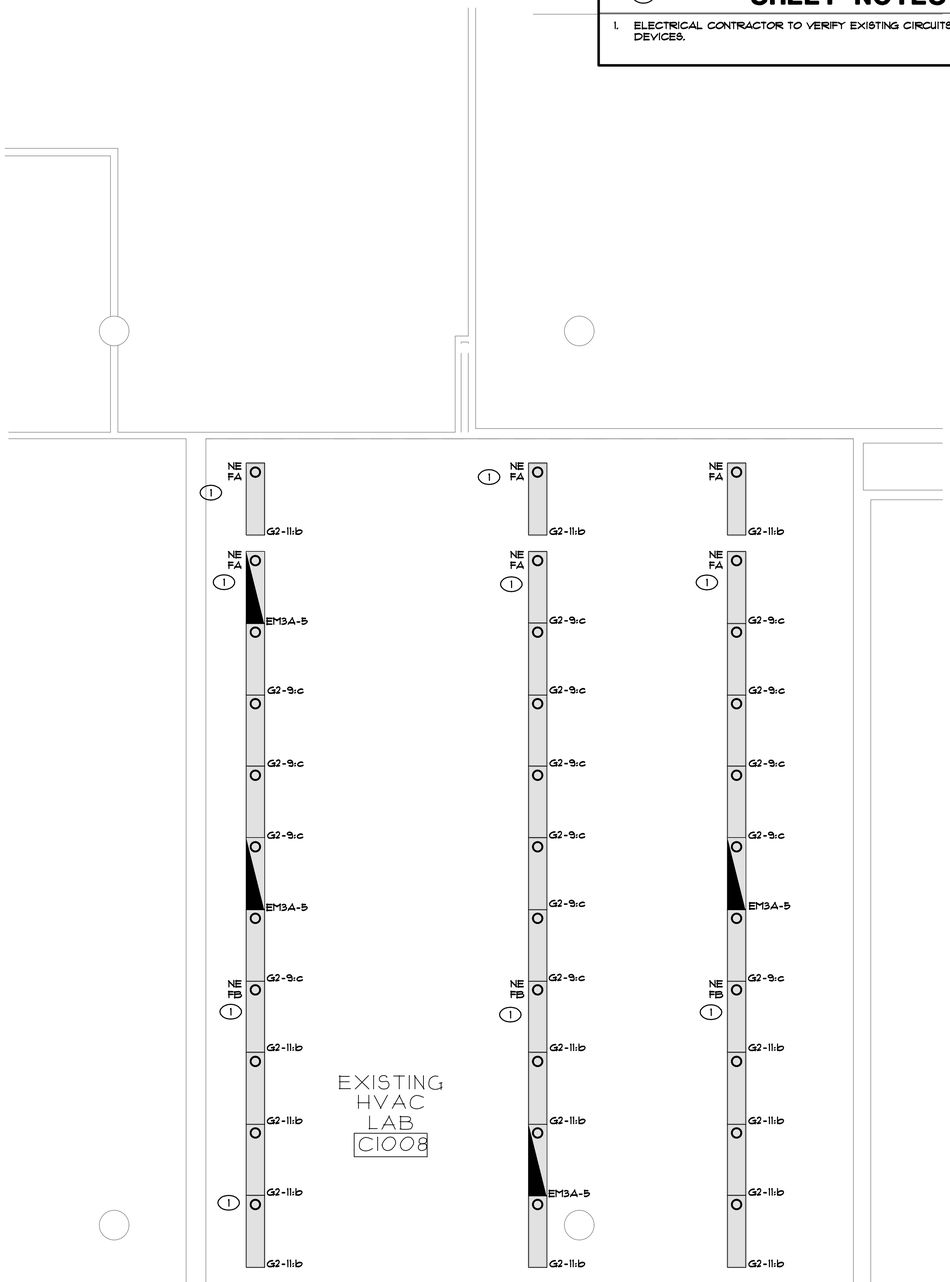
1. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CIRCUITS IN RELOCATED DEVICES.



ELECTRICAL FIRST FLOOR LIGHTING PLAN

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

NORTH



ELECTRICAL SECOND FLOOR LIGHTING PLAN

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

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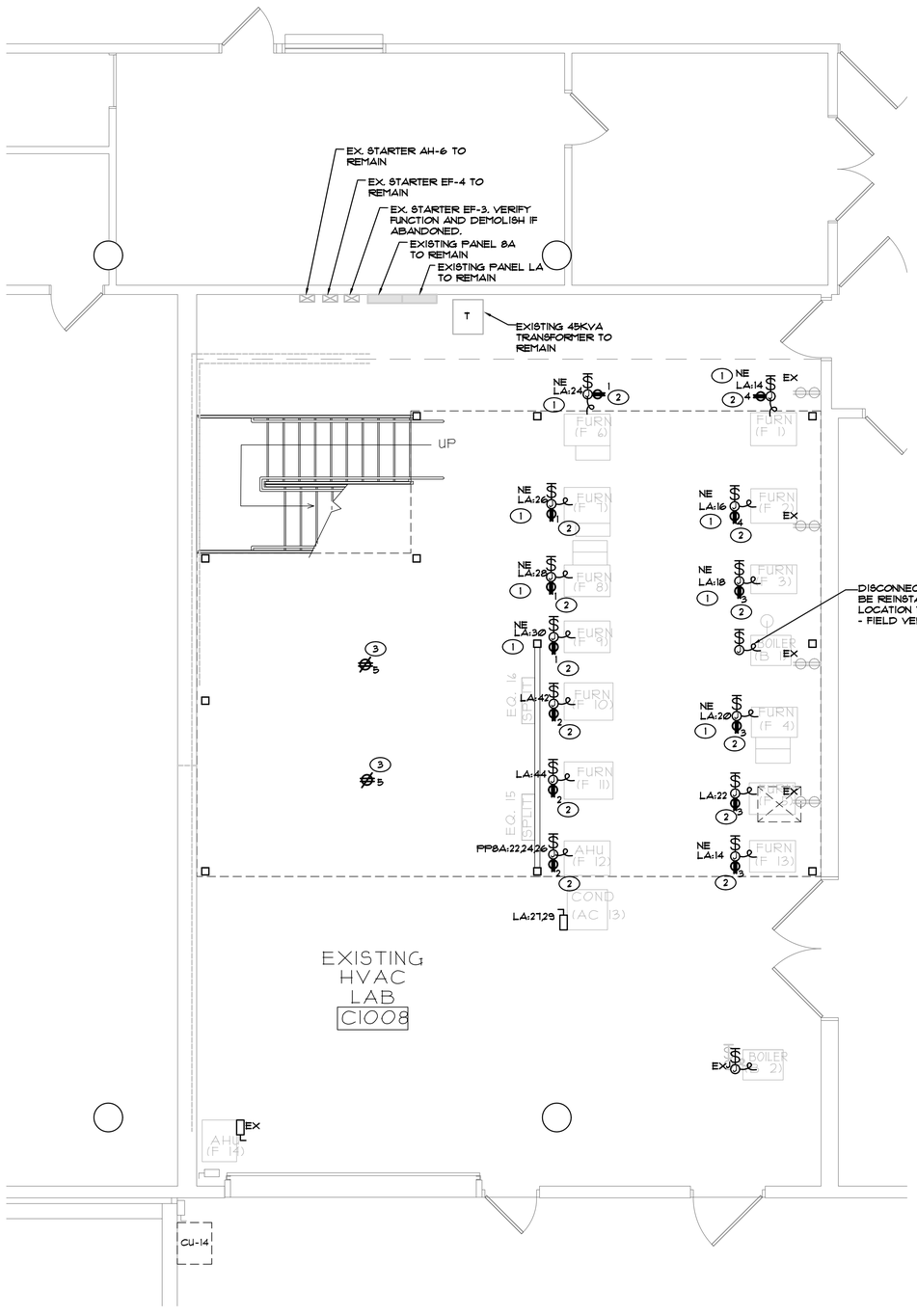
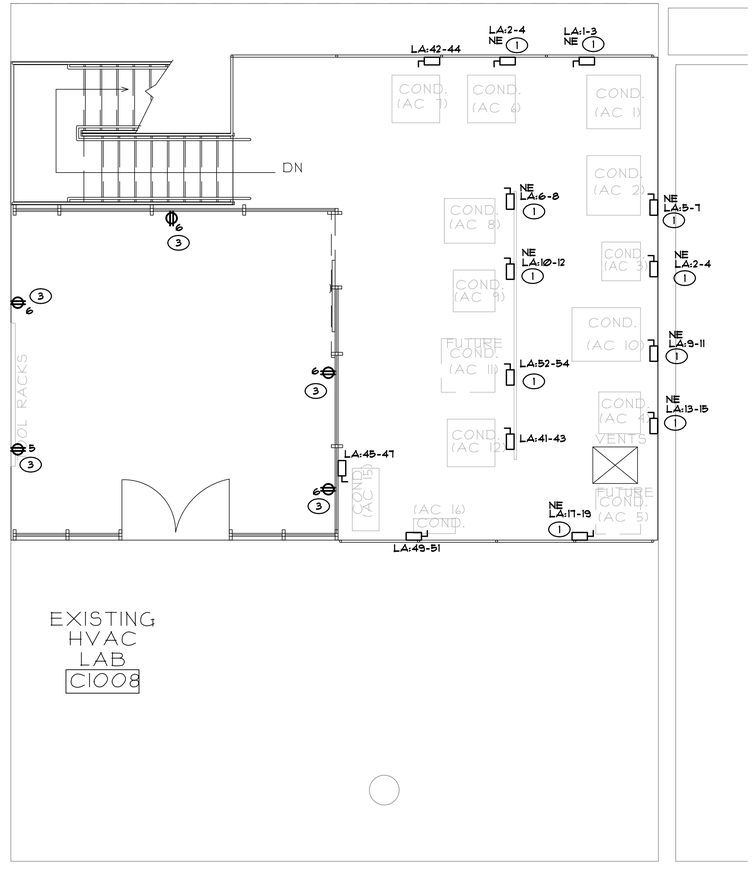
SHEET NOTES

1. ELECTRICAL CONTRACTOR TO VERIFY EXISTING CIRCUITS IN RELOCATED DEVICES.
2. CONDENSATE PUMP CONNECTION. CONNECT TO NEAREST 120/208V PANEL WITH AVAILABLE SPACE AND CAPACITY. CIRCUIT NUMBERS SHOWN ARE NOT ACTUAL, BUT ARE SHOWN TO INDICATE CIRCUITING REQUIREMENTS. VERIFY ACTUAL CIRCUIT ASSIGNMENTS IN FIELD, COMPLETE AS REQUIRED. PROVIDE 2-GANG BOX ON EQUIPMENT WITH BOTH TOGGLE DISCONNECT AND GFCI RECEPTACLE FOR CONDENSATE PUMP.TYPICAL.
3. SERVICE RECEPTACLE. CONNECT TO NEAREST 120/208V PANEL WITH AVAILABLE SPACE AND CAPACITY. CIRCUIT NUMBERS SHOWN ARE NOT ACTUAL, BUT ARE SHOWN TO INDICATE CIRCUITING REQUIREMENTS. VERIFY ACTUAL CIRCUIT ASSIGNMENTS IN FIELD, COMPLETE AS REQUIRED.



ELECTRICAL FIRST FLOOR POWER PLAN

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



ELECTRICAL SECOND FLOOR POWER PLAN

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

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SYMBOL LIST

EQUIPMENT AND WIRING

- JUNCTION BOX - SIZE AND TYPE AS REQUIRED.
- FLEX CONDUIT CONNECTION
- ELECTRIC PANELBOARDS.
- DISCONNECT SWITCH SIZE AND TYPE AS REQUIRED - COORDINATE AMPERE RATING WITH EQUIPMENT SUPPLIER
- TRANSFORMER - SIZE AND TYPE AS REQUIRED
- COMBINATION MAGNETIC STARTER WITH DISCONNECT SWITCH.
- MAGNETIC STARTER

SHEET SYMBOLS

- F4I NEW DEVICE AS INDICATED.
- EX — EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. TO REMAIN.
- RR — REMOVE EXISTING LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICES, ETC. AND RELOCATE TO NEW LOCATION COMPLETE AS REQUIRED.
- NE — NEW LOCATION OF EXISTING RELOCATED LIGHTS, RECEPTACLES, SPECIAL SYSTEMS, DEVICE, ETC. EXTEND CONDUIT, WIRE, CABLE, ETC. COMPLETE AS REQUIRED TO NEW LOCATION FOR A COMPLETE AND PROPER INSTALLATION.
- RN / NI — REMOVE EXISTING DEVICE AND PROVIDE NEW AS INDICATED IN EXISTING BACK BOX, JUNCTION BOX, ETC. VERIFY EXACT LOCATION AND CONDITIONS IN FIELD. MODIFY EXISTING BACK BOX, JUNCTION BOX, ETC. PROVIDE TRIM PLATES, EXTENSION RINGS, ETC. AS REQUIRED TO MOUNT NEW DEVICE AS INDICATED.

RECEPTACLES

- 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED 18" A.F.F. OR AS NOTED) (HUBBELL #5362 OR EQUAL).
- 120V-20A SPECIFICATION GRADE GROUNDED DUPLEX RECEPTACLE WITH G.F.I. PROTECTION - (MOUNTED 18" A.F.F. OR AS NOTED) (HUBBELL #GF20 OR EQUAL)
- 120V-20A SPECIFICATION GRADE DUPLEX RECEPTACLE - (MOUNTED AT BOTTOM OF DECK ABOVE- COORDINATE IN FIELD) (HUBBELL #5362 OR EQUAL)

SWITCHING

- $ — FURNISH AND INSTALL TWO BUTTON ON/OFF SWITCH MTD 42" AFF: SENSORSWITCH #SPODM OR APPROVED EQUAL BY COOPER OR HUBBELL CONTROLS. PROVIDE WITH POWER PACK AS REQUIRED FOR CONTROL OF FIXTURES.

LIGHTING

- FIXTURE ON EMERGENCY CIRCUIT (EM/NL) WITH 90 MINUTE, FULL LUMEN OUTPUT BATTERY UNIT OR INVERTER. BODINE #B30 (FLUORESCENT), BODINE FACTORY INSTALLED DRIVER (LED) OR MYERS #LV SERIES INVERTER (FLUORESCENT OR LED). REMOTE MOUNT IN ACCESSIBLE CEILINGS WHERE INTERNAL INSTALLATION IS NOT POSSIBLE (PROVIDE TEST SWITCH & ALL NECESSARY APPURTENANCES).

INTERIOR/EXTERIOR LIGHTING LUMINAIRE SCHEDULE

TAG	SYMBOL	DESCRIPTION	MANUFACTURER SERIES OR CATALOG NUMBER	VOLTAGE/ BALLAST	LAMPS/CROSS SECTION	MOUNTING	REMARKS
FA		1x4 SUSPENDED LED FIXTURE	LITHONIA LIGHTING #SBL4-4000LM-80CRI-40K-XX-MVOLT PROVIDE #EM OPTION FOR ALL FIXTURES WITH EMERGENCY CIRCUIT	UNV 0-10V DIM - -	LED 4000K 32W 4000LM	SUSPENDED - - -	-
FB		1x4 SUSPENDED LED FIXTURE	LITHONIA LIGHTING #SBL4-7200LM-80CRI-40K-XX-MVOLT PROVIDE #EM OPTION FOR ALL FIXTURES WITH EMERGENCY CIRCUIT	UNV 0-10V DIM - -	LED 4000K 50W 7200LM	SUSPENDED - - -	-
EM		FIXTURE ON EMERGENCY CIRCUIT WITH 90 MINUTE, HIGH OUTPUT (MIN 1400LM) BATTERY UNIT OR INVERTER	FIXTURES LESS THAN 10000 LM: BODINE FACTORY INSTALLED BATTERY OR, AT CONTRACTOR'S DISCRETION, MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED) FIXTURES GREATER THAN 10000LM: MYERS LV SERIES INVERTER (SIZE AND QUANTITY AS REQUIRED)	120/277 VOLT	-	IN FIXTURE/ REMOTE	-PROVIDE TEST SWITCH AND CHARGING INDICATOR -INTEGRAL BATTERIES NOT ALLOWED IN FIXTURES WITH GREATER THAN 10000 LUMENS
NL		CONSTANT HOT, UNSWITCHED NIGHT LIGHT FIXTURE					

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