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600 CIVIL / CIVIL

700 COMMUNICATION / COMMUNICATION

800 SECURITY / SÉCURITÉ

900 INTERIOR DESIGN / CONCEPTION INTÉRIEUR

DATE 2025/11/21

PAN, LIMIN 067
Digitally signed by PAN, LIMIN 067
Date: 2025.12.12 16:07:45 -05'00'
Limin Pan, Project Manager

ST JOHN, STEVEN 376
Digitally signed by ST JOHN, STEVEN 376
Date: 2025.12.15 06:46:01 -05'00'
Steve St. John, Chief Fire Inspector

SANTOS, FERNANDO 989
Digitally signed by SANTOS, FERNANDO 989
Date: 2025.12.15 09:49:51 -05'00'
Fernando Santos, Engineering Officer

DCC NO. - CDC NO. KN229909

PROJECT NO. - PROJET NO. 500540682

JOB NO. L-B35-8900

HR26 HVAC UPGRADES
32 Lundy's Lane,
Address | Adresse
Kingston
City | Ville
Ontario
Province | Province

Canada

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0 50 100 200 250 300mm



32 Lundy's Lane

Kingston, Ontario

NEW RTU REINFORCEMENT DESIGN

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LIST OF DRAWINGS :

200 GENERAL NOTES

201 ROOF FRAMING PLAN

1.0 GENERAL NOTES :

(THESE NOTES APPLY TO ALL PHASES / ASPECTS OF THE PROJECT)

1. THESE DRAWINGS ARE TO PROVIDE A SCHEMATIC REPRESENTATION OF THE APPROXIMATE LAYOUT OF THE BUILDING IN THE AREA OF WORK.
2. THE CONTRACTOR MUST REVIEW AND CONFIRM THE EXTENT OF EXISTING SITE CONDITIONS AND BUILDING PERIMETER FEATURES THAT WILL AFFECT OR WILL REQUIRE ADJUSTMENT IN ORDER TO COMPLETE THE WORK AS SHOWN IN THE DRAWINGS PRIOR TO COMMENCING WORK.
3. DISCREPANCIES, AMBIGUITIES OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE DCC REP. IMMEDIATELY.
4. THE EXTENT OF WORK IS AS SHOWN ON THE DRAWINGS.
5. HOARDING, SITE PROTECTION, OVERHEAD PROTECTION AND CONSTRUCTION SIGNAGE IS TO BE INSTALLED AROUND THE SITE AND PHASES OF WORK IN ACCORDANCE WITH THESE NOTES AND THE DRAWINGS PRIOR TO COMMENCING THE WORK.
6. THIS SET OF DRAWINGS DOES NOT INCLUDE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND AROUND THE JOB SITE DURING CONSTRUCTION, AND FOR THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES REQUIRED TO COMPLETE THE WORK.
7. THE USE OF THESE DRAWINGS IS LIMITED TO THE EXTENT IDENTIFIED IN THE REVISION COLUMNS. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION" BY READ JONES CHRISTOFFERSEN LTD.
8. ALL DIMENSIONS TAKEN FROM THE DRAWINGS SHALL BE CHECKED ON SITE PRIOR TO THE START OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTNESS OF SUCH MEASUREMENTS AND REPORT TO THE DCC REP. IN WRITING ALL DISCREPANCIES BETWEEN THE MEASUREMENTS AT THE BUILDING AND THOSE SHOWN ON THE DRAWINGS PRIOR TO COMMENCING THE WORK.
9. THE CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND CHECK THE DIMENSIONS BEFORE CONSTRUCTION. REPORT ANY DISCREPANCIES BETWEEN THESE DRAWINGS AND SITE THE CONDITION TO THE DCC REP. IMMEDIATELY.
10. DO NOT CUT OR DRILL ANY HOLES/OPENINGS IN STRUCTURAL ELEMENTS WITHOUT WRITTEN PERMISSION FROM THE DCC REP.
11. SECTION MARK SHOWN THUS (1 / S1) DENOTES SECTION 1 ON DRAWING S1.
12. THE ENGINEERING FIELD SERVICES: THE ENGINEER HIRED TO PROVIDE FIELD SERVICES WILL INSPECT SAMPLE OF WORK TO DETERMINE THE CONTRACTOR IS CARRYING OUT THE WORK IN GENERAL CONFORMANCE WITH THE CONTRACT DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR QUALITY CONTROL AND PERFORMING THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
13. THE CONTRACTOR WILL BE RESPONSIBLE TO REPAIR/RESTORE/REPAINT ALL EXISTING FINISHES DAMAGED AS A RESULT OF CONSTRUCTION OR REMOVED IN ORDER TO ALLOW CONSTRUCTION TO BE UNDERTAKEN.
14. THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS ON SITE.
15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL ENTRANCE AND EXIT WAYS TO THE BUILDING, STOREFRONTS, (INCLUDING STORAGE ROOMS, MECHANICAL ROOMS, ETC.) REMAIN OPEN AT ALL TIMES.
16. THIS SET OF DRAWINGS ALONG WITH THE SPECIFICATIONS FORM THE CONTRACT DOCUMENTS AND MUST BE READ AND INTERPRETED IN CONJUNCTION WITH THE SPECIFICATIONS.
17. CONSTRUCTION LOADS MUST NOT EXCEED THE ORIGINAL DESIGN LOADS FOR THE STRUCTURE AND LOADS MAY ONLY BE APPLIED AFTER CONCRETE REACHES ITS DESIGN STRENGTH.
18. ALL WORK IS TO BE IN ACCORDANCE WITH THE 2020 NATIONAL BUILDING CODE OF CANADA.

2.0 GENERAL SCOPE OF WORK :

IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL LABOUR, MATERIAL, EQUIPMENT AND SUPERVISION TO COMPLETE THE REPAIRS OUTLINED IN THIS SPECIFICATION TAKING INTO ACCOUNT ALL THE SITE CONDITIONS, NOISE RESTRICTIONS, WORK, AREA RESTRICTIONS, PROTECTION REQUIREMENTS, ACCESSIBILITY RESTRICTIONS, ETC. NO EXTRAS WILL BE ENTERTAINED FOR INCONVENIENCES AFTER THE AWARD OF THIS CONTRACT.

IN PARTICULAR, THE WORK INCLUDES, BUT IS NOT NECESSARY LIMITED TO THE FOLLOWING:

1. THE INSTALLATION AND MAINTENANCE OF HOARDING, DUST PROTECTION, AND CONSTRUCTION SIGNAGE AROUND THE WORK AREA AS REQUIRED.
2. SUPPLY AND INSTALLATION OF TEMPORARY SHORING AS REQUIRED TO FACILITATE THE WORK.
3. REPAIR ALL AREAS DAMAGED BY CONSTRUCTION ACTIVITY; SPECIFICALLY, THE CONTRACTOR SHALL REPAIR ALL DAMAGE RESULTING FROM THE CONSTRUCTION TO THE SATISFACTION OF THE DCC REP. INCLUDING REPAINTING SURFACES IN ACCORDANCE WITH THESE SPECIFICATIONS WHICH HAVE BEEN DAMAGED.
4. FINAL CLEANING OF STRUCTURE, FIXTURES, PIPING, ETC., AND THE DISPOSAL OF ALL WASTE PRODUCTS AND/OR DEBRIS GENERATED BY THE CONSTRUCTION ACTIVITY AS WELL AS ANY MATERIAL PRESENT IN THE WORK AREA PRIOR TO THE COMMENCEMENT OF THE WORK. THE AREAS REQUIRING CLEANING SHALL CONSIST OF ALL AREAS AFFECTED BY THE WORK.

3.0 HOARDING NOTES :

1. CONTRACTOR TO INSTALL AND MAINTAIN HOARDING AND DUST PROTECTION AROUND EACH PHASE OF WORK AS OUTLINED IN SECTION 01 56 00 AND THESE DRAWINGS.
2. POSITION HOARDING TO MAINTAIN VEHICLE AND PEDESTRIAN TRAFFIC FLOW AND MINIMIZE IMPACT TO THE CONSTRUCTION WORK.
3. HOARDING BETWEEN EXISTING BUILDING AND WORK AREA SHALL BE COMPLETELY DUST AND WATER TIGHT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING HOARDING IN GOOD CONDITION AND DAMAGES AS A RESULT OF DUST AND MOISTURE INGRESS.

4.0 EXISTING CONDITIONS :

1. THIS SET OF DRAWINGS IS BASED ON THE EXISTING DRAWINGS AVAILABLE AT THE TIME OF DESIGN AND LIMITED REVIEW UNDERTAKEN BY RJC.
2. ENSURE THAT ALL NECESSARY DIMENSIONS ARE TAKEN AND ALL TRADES ARE COORDINATED FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF SUCH DIMENSIONS, AND FOR COORDINATION.
3. COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF THE EXISTING CONDITIONS AND MEANS THE DIMENSIONS AND ELEVATIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.

5.0 TEMPORARY WORK :

1. THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN, REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.
2. IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADING AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE WORKS IN PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION.
3. ACCESS OF HEAVY CONSTRUCTION EQUIPMENT AND ACCUMULATION OF CONSTRUCTION MATERIALS ON THE FLOORS ARE NOT PERMITTED, UNLESS SUCH HAVE BEEN CATERED FOR IN THE CONTRACTOR'S TEMPORARY WORK DESIGN TO THE SATISFACTION OF THE DCC REP.
4. COSTS OF ALL TEMPORARY WORKS ARE TO BE INCLUDED IN THE CONTRACT PRICE.

6.0 SIGNAGE NOTES :

1. THE CONTRACTOR SHALL PROVIDE ALL REQUIRED SIGNAGE NECESSARY TO PROTECT THE PUBLIC FROM THE CONSTRUCTION, CONTROL THE TRAFFIC FLOW THROUGH THE SITE AND THE WORK AREA AND TO INFORM PATRONS THAT CONSTRUCTION ACTIVITY IS IN PROCESS.
2. ADDITIONAL SIGNS MAY BE REQUIRED AT THE DISCRETION OF OWNER AS CONSTRUCTION PROGRESSES TO ENSURE VEHICLE AND PEDESTRIAN TRAFFIC FLOW IS MAINTAINED. NO EXTRA WILL BE ENTERTAINED FOR SIGNAGE REQUIREMENTS.
3. SIGNAGE WILL BE REQUIRED AT ALL ENTRANCES TO THE BUILDING, STAIRWELLS, ETC. THIS SIGNAGE SHALL CONSIST OF THE STANDARD "MEN AT WORK" SIGN WITH AN ADDITIONAL SIGN (SPECIAL ORDER) INDICATING THAT THE "SITE IS TEMPORARILY UNDER CONSTRUCTION" AND "WE ARE SORRY FOR THE INCONVENIENCE".
4. SIGNAGE IS REQUIRED AT ALL DOORS LEADING TO THE WORK AREA. SIGNS ARE TO INDICATE THAT "ACCESS TO THE AREA OF WORK IS NOT PERMITTED DURING CONSTUCTION.

7.0 RENOVATION NOTES :

1. THE CONTRACT DOCUMENTS ARE BASED ON THE ASSUMED AS-BUILT DIMENSIONS FOR THE EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH DETAILING AND PLACING PRACTICES. THESE ASSUMPTIONS MAY VARY FROM THE ACTUAL ON-SITE CONDITIONS. THE CONTRACTOR SHALL IMMEDIATELY INFORM THE DCC REP. OF ANY ACTUAL VARIATIONS FROM THE ASSUMED CONDITIONS.
2. ENSURE THAT ALL NECESSARY DIMENSIONS ARE TAKEN AND ALL TRADES ARE COORDINATED FOR THE PROPER EXECUTION OF THE WORK. THE CONTRACTOR SHALL ASSUME COMPLETE RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF SUCH DIMENSIONS, AND FOR COORDINATION.
3. PRIOR TO FABRICATION OF ANY MEMBERS, THE CONTRACTOR SHALL COMPLETE A SITE REVIEW OF CRITICAL "TIE-IN" DIMENSIONS AND CONFIRM ALL DIMENSIONS TO ENSURE PROPER FIT OF NEW WORK TO EXISTING. REPORT ANY DISCREPANCIES TO DCC REP. PRIOR TO STARTING THE WORK.
4. COMMENCEMENT OF CONSTRUCTION OR ANY PART THEREOF CONSTITUTES ACCEPTANCE OF THE EXISTING CONDITIONS AND MEANS THE DIMENSIONS HAVE BEEN CONSIDERED, VERIFIED AND ARE ACCEPTABLE.
5. ANY OPENINGS THAT ARE NOT SHOWN OR INDICATED ON THE DRAWINGS SHALL BE REPORTED TO THE DCC REP. FOR REVIEW. THESE OPENINGS MAY NOT BE ALLOWED, MAY HAVE TO BE MOVED, OR MAY REQUIRE ADDITIONAL WORK AND DETAILING. DO NOT PROCEED WITH THESE OPENING WITHOUT WRITTEN PERMISSION FROM DCC REP..
6. THE CONTRACT DOCUMENTS ARE BASED ON ASSUMED (UN-VERIFIED) DIMENSIONS FOR EXISTING BUILDING STRUCTURE AND ASSUMPTIONS IN ACCORDANCE WITH DETAILING AND PLACING PRACTICES. THE CONTRACTOR IS TO ENSURE THAT ALL CONCEALED SERVICES ARE NOT DAMAGED THROUGH DEMOLITION, SAWCUTTING, HOLE AUGURING, OR OTHER CONSTRUCTION ACTIVITIES. SEE SPECIFICATION FOR TESTING/LOCATING REQUIREMENTS.
7. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND AROUND THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES, FORM WORK, FALSE WORK, SHORING, BRACING, ETC., REQUIRED TO COMPLETE THE WORK (SUBMIT SHORING DRAWINGS SEALED BY A SPECIALTY STRUCTURAL ENGINEER).

8. STRUCTURAL STEEL - GENERAL

1. STRUCTURAL STEEL SECTIONS SHALL BE NEW AND CONFORM TO THE FOLLOWING U.N.O.:
   - A. W AND WT SHAPES ---------- CSA G40.21 GRADE 345WM/ ASTM A992
   - B. C, L, M, MC, MT, S, AND ST SHAPES ----- CSA G40.21 CSA G40.21 300W, ASTM A992
   - C. ROLLED PLATES AND BARS ---------- CSA G40.21 GRADE 300W
2. USE OF STRUCTURAL STEEL SHAPES, PLATE OR BARS WITH HIGHER GRADE THAN NOTED ABOVE SUBJECT TO APPROVAL BY DCC REP.
3. DESIGN FORCES INDICATED ON DRAWINGS FOR STRUCTURAL STEEL WORK ARE FACTORED FORCES UNLESS NOTED OTHERWISE. FORCES ARE VERTICAL SHEAR FORCES U.N.O.
   IMPERIAL:
   - A. FORCES ---------- KIPS (K)
   - B. MOMENTS ---------- KIP-FEET (K-FT)
   - C. LINE LOADS ---------- KIPS/FOOT (KLF)
   - D. DISTRIBUTED LOADS ---------- KIPS/SQ. FT. (KSF)

   SEE "DESIGN LOADS" NOTES FOR DEFINITIONS AND VALUES OF LIVE LOAD, DEAD LOAD AND SUPERIMPOSED DEAD LOAD. SEE ALSO PLANS FOR OTHER LOAD/FORCE REQUIREMENTS.
4. PRIOR TO COMMENCEMENT OF THE WORK THE CONTRACTOR SHALL NOTIFY DCC REP. IN WRITING THAT THE FABRICATOR IS CERTIFIED TO A MINIMUM OF DIVISION 2 OF CSA W47.1.
5. FABRICATION, ERECTION, STRUCTURAL DESIGN, AND DETAILING OF ALL STEEL SHALL BE IN ACCORDANCE WITH CSA S16.
6. FILLET WELDS SHALL BE 5mm MINIMUM UNLESS NOTED OTHERWISE.
7. FLOOR AND ROOF DECK:
   LINES INDICATE SPAN DIRECTION → STEEL DECK OR WOOD WITHOUT CONCRETE TOPPING:
8. ALL O.W.S.J. TO HAVE BUILDING SERVICES PASS THROUGH THEM. WEB MEMBERS OF ADJACENT O.W.S.J. TO LINE UP TO ACCOMMODATE CONTINUOUS PENETRATION OF SERVICES.
9. WELDING SHALL CONFORM TO CSA W59.

9.0 MASONRY NOTES :

1. ALL MASONRY WORK SHALL CONFORM TO CAN/CSA S304.1 AND ITS REFERENCED DOCUMENTS DOCUMENTS, INCLUDING BUT NOT LIMITED TO:
   - A. CONCRETE BLOCK TO CAN/CSA-A165 TYPE H/15/A/M/ UNLESS NOTED OTHERWISE (BASED ON NET AREA).
   - B. GROUT PREPARED ON OR OFF SITE SHALL BE IN ACCORDANCE WITH CAN/CSA-A179 AND SUPPLIER RECOMMENDATIONS
     - i. MINIMUM 28DAY COMPRESSIVE STRENGTH – 8.0MPa
     - ii. SLUMP 200mm (MIN) TO 250mm (MAX).
     - iii. FINE AGGREGATE SHALL BE USED WHERE SPACES TO BE GROUTED HAVE DIMENSIONS LESS THAN 50mm
   - C. CONNECTORS FOR MASONRY TO CAN/CSA-A370.
   - D. MORTAR SHALL BE TYPE S PREPARED IN ACCORDANCE WITH CAN/CSA-A179.
   - E. CONNECTIONS TO CAN/CSA-A370.
   - F. PRACTICE TO CAN/CSA-A371.
2. MORTAR MAY NOT BE SUBSTITUTED FOR GROUT.
3. ALL MORTAR JOINTS IN CONCRETE BLOCK WORK SHALL BE TOOLED CONCAVE UNLESS NOTED OTHERWISE IN THE ARCHITECTURAL DRAWINGS.
4. GROUT NOT PLACED WITHIN 1.5 HOURS AFTER WATER IS FIRST ADDED TO THE BATCH SHALL BE DISCARDED.

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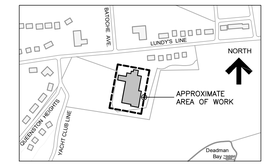
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KEY PLAN

LICENSED PROFESSIONAL ENGINEER
M.A.KRUCZKOWSKI
100221461
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
6.	Jun. 23, 26	ISSUED FOR TENDER	M.K.
5.	Nov. 21, 25	ISSUED FOR TENDER	M.K.
4.	Aug.14, 25	ISSUED FOR PERMIT	M.K.
3.	Jan. 31, 25	ISSUED FOR 99% SUBMISSION	M.K.
2.	Jan. 23, 25	ISSUED FOR COSTING	M.K.
1.	May 7, 24	ISSUED FOR CLIENT REVIEW	M.K.

ÉCHELLE | SCALE

EMPLACEMENT | LOCATION

32 Lundys Line
Kingston, Ontario

PROJET | PROJECT

HR26 ROOFTOP REINFORCEMENT

MÉTIER | TRADE	DATE

SUJET | SUBJECT

GENERAL NOTES

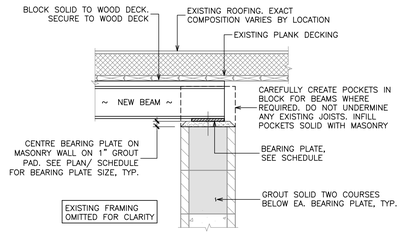
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VÉRIFIÉ | CHECKED	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.	NO. DP | PF NO.

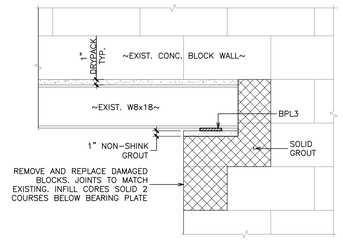
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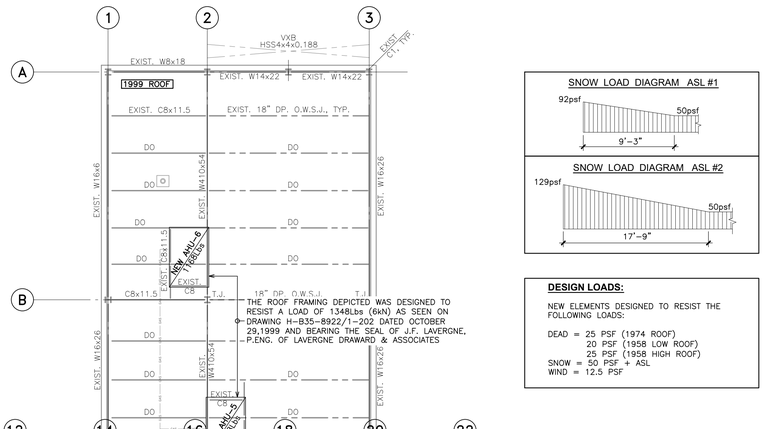
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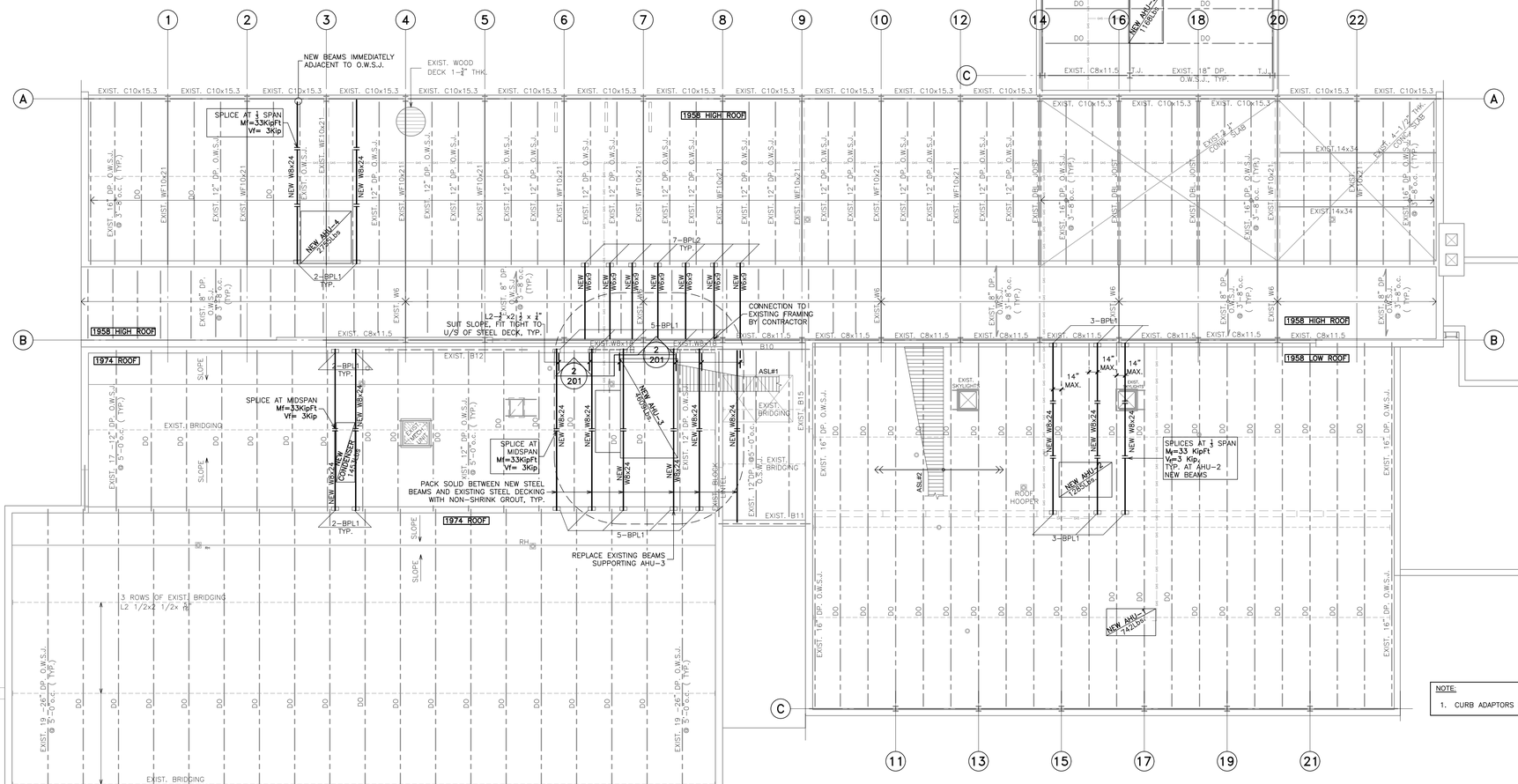


3/201 **BEAM BEARING ON EXISTING MASONRY WALL, TYP.**
1"=1'-0"



2/201 **ELEVATION AT LINTEL - SIM. BOTH ENDS**
1"=1'-0"





1/201 **EXISTING ROOF PLAN**
1/8"=1'-0"

LEGEND:

- EXISTING CONCRETE BLOCK WALL
- EXISTING CONCRETE BLOCK WALL BELOW
- EXISTING OWSJ
- EXISTING STEEL BEAM
- EXISTING STEEL COLUMN
- EXISTING STEEL LINTEL BELOW
- NEW STEEL BEAM
- AHU — MECHANICAL UNIT
- EXIST. SKYLIGHT

BEARING PLATE SCHEDULE		
MARK	SIZE	COMMENTS
BPL1	PL8" x7-½" x½" THK.	
BPL2	PL7-½" x6" x½" THK.	
BPL3	PL7" x4" x3/8" THK.	

NOTES:
1. GROUT CORES SOLID TWO COURSES BELOW BEAM BEARING PLATE.
2. INFILL BEAM POCKET SOLID WITH MASONRY.

DESIGN LOADS:

NEW ELEMENTS DESIGNED TO RESIST THE FOLLOWING LOADS:

DEAD = 25 PSF (1974 ROOF)
20 PSF (1958 LOW ROOF)
25 PSF (1958 HIGH ROOF)
SNOW = 50 PSF + ASL
WIND = 12.5 PSF

NOTE:
1. CURB ADAPTORS BY MECHANICAL /ELECTRICAL

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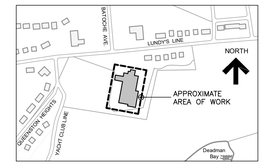
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KEY PLAN

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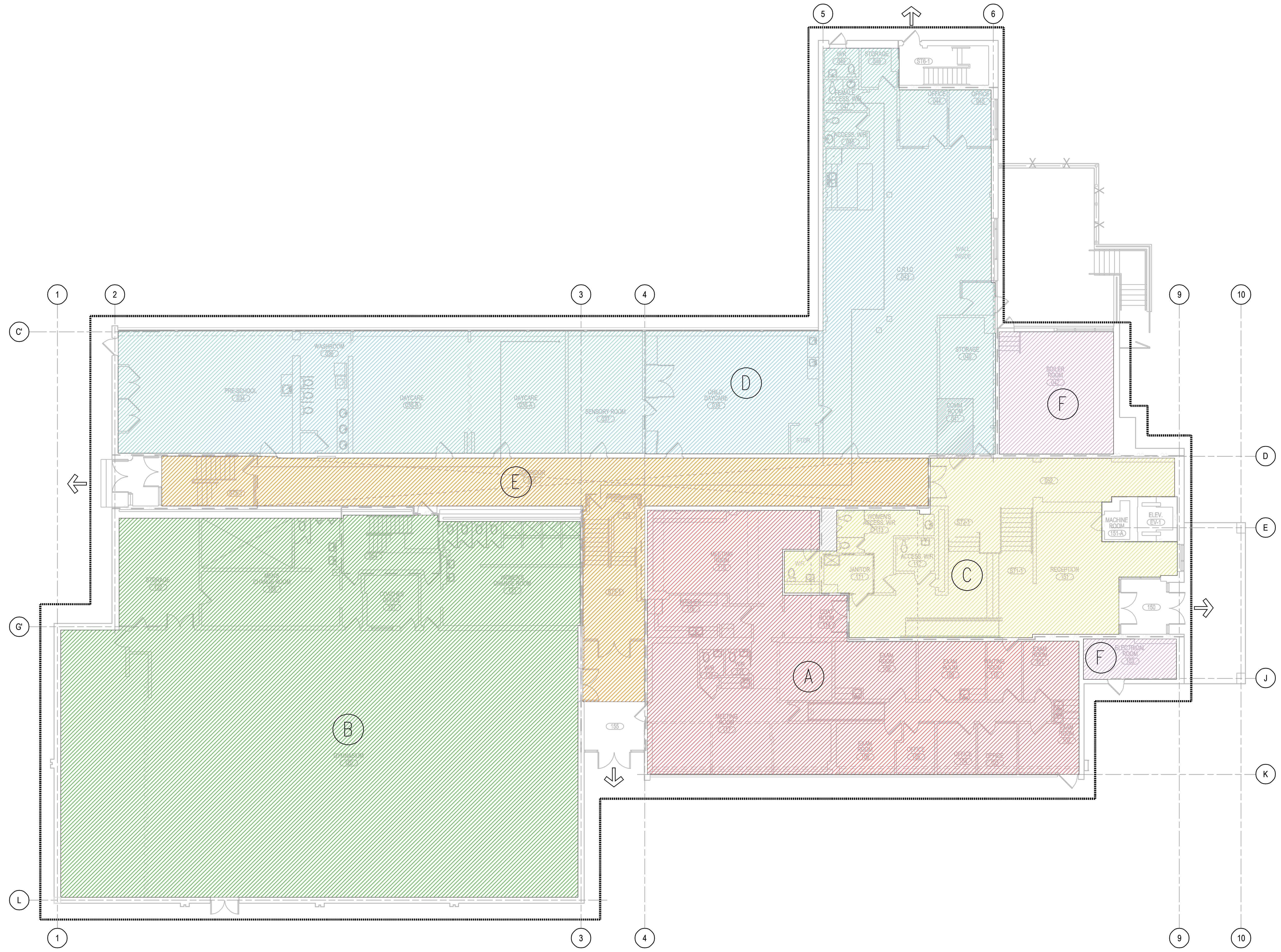
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DESSINÉ | DRAWN	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO. | NO. DP | PF NO.

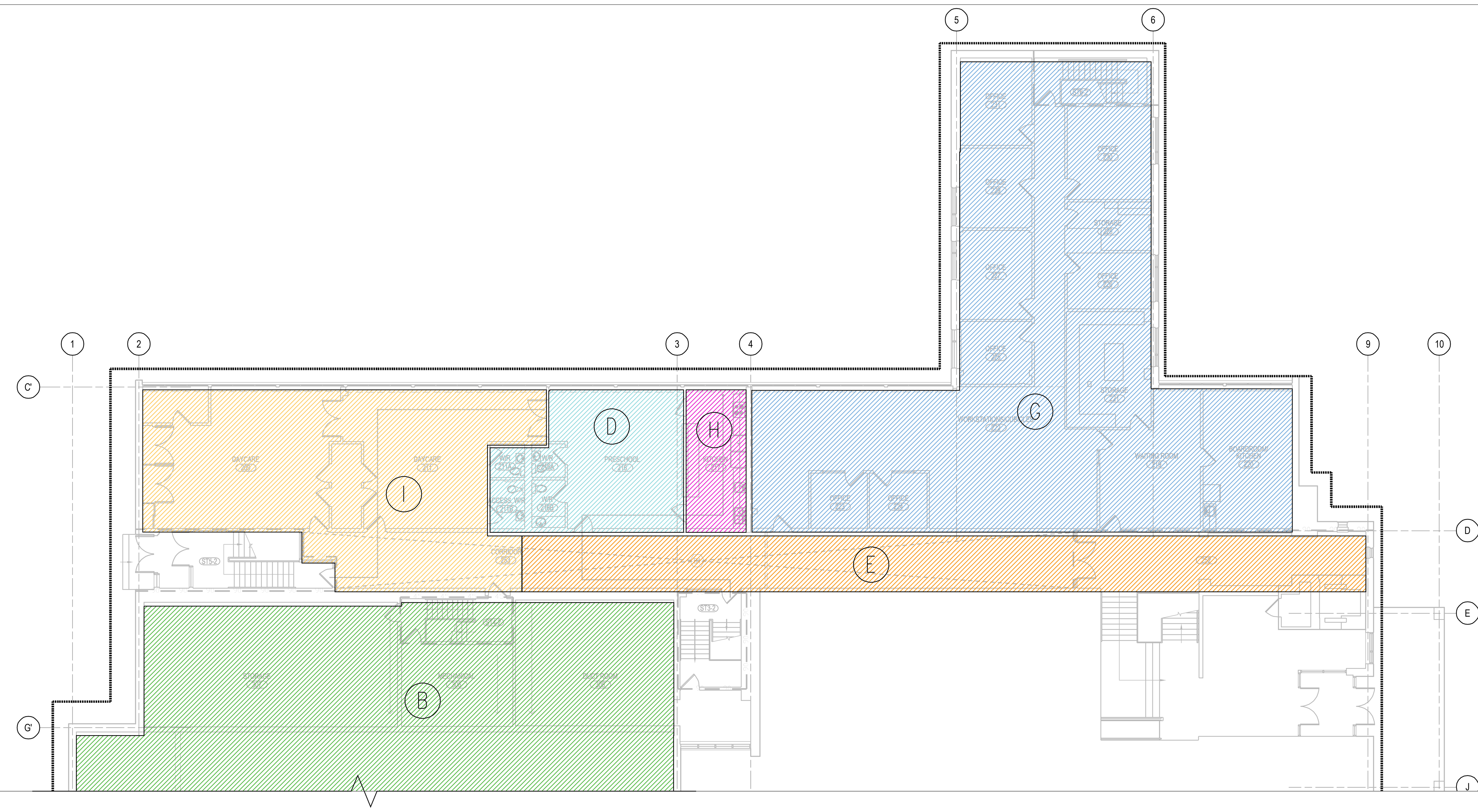
NO. DESSIN | DWG. NO. L-B35-8900-201

Canada

RJC Project Number TOR.133971.0002



1 / 300 LEVEL 01 - PHASING PLAN
SCALE: 1:150



2 / 300 LEVEL 02 - PHASING PLAN
SCALE: 1:150

CONSTRUCTION PHASING

General Phasing Notes

THE PURPOSE OF THIS DRAWING IS TO DESCRIBE HOW THE ANTICIPATED CONSTRUCTION OF EACH SPACE TYPE IS TO BE COORDINATED WITH BATOCHE COMMUNITY CENTER'S OPERATIONAL NEEDS.

GENERAL TIMELINES ARE PROVIDED FOR REFERENCE ALONG WITH THE LEVEL OF INTERFERENCE TO DAILY OPERATIONS, AND RESTRICTIONS FOR EACH SPACE.

WHERE SPACES ARE TO BE USED AS FLEX ROOMS DURING CONSTRUCTION, ONLY ONE ROOM CAN BE RELOCATED AT A TIME. ROOMS CANNOT BE MIXED REGARDLESS OF AGE.

TODDLER AND INFANT ROOMS CANNOT BE SHUTDOWN AT THE SAME TIME.

APPROVAL IS REQUIRED BY MINISTRY OF EDUCATION PRIOR TO RELOCATION OF SPACES. IT IS ASSUMED THAT THE APPROVAL PROCESS TAKES APPROXIMATELY ONE MONTH. THIS SHALL BE COORDINATED WITH THE CLIENT DURING CONSTRUCTION. CONSTRUCTION TO BE PLANNED TO ALLOW FOR ADEQUATE TIME TO RECEIVE APPROVALS FROM THE MINISTRY.

WHEN SPACES ARE TEMPORARILY COMPLETE, AWAITING FULL COMMISSIONING OF THE SYSTEM, TEMPORARY MEASURES SHALL BE PUT IN PLACE TO MAINTAIN VENTILATION, HEATING, AND COOLING.

CONTRACTOR TO DEVELOP A FULLY DETAILED AND SPECIFIC SCHEDULE AND PHASING PLAN FOR REVIEW AND APPROVAL BY THE DCC REPRESENTATIVE AND OWNER PRIOR TO START OF CONSTRUCTION

PHASING DRAWINGS TO BE READ IN CONJUNCTION WITH FULL CONTRACT DRAWINGS, SPECIFICATIONS AND MOVING PLAN.

TEMPORARY ACCESS TO EXIT TO BE COORDINATED WITH OWNER FIRE SAFETY PLANS, AND APPROVED BY OWNER, OPERATOR, DCC REPRESENTATIVE, AND FIRE DEPARTMENT PRIOR TO BEGINNING OF CONSTRUCTION

Phasing Legend

PERIMETER OF FULL CONSTRUCTION BOUNDARY

MAINTAIN ALL REQUIRED EXITS AND ACCESS TO EXITS.

Moving Requirements

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RELOCATING EXISTING FURNITURE AND EQUIPMENT LOCATED WITHIN ALL SPACES TO ALLOW FOR CONSTRUCTION AS PER THE PHASING PLAN.
CONTRACTOR SHALL REVIEW ITEMS WITH USER GROUP PRIOR TO FINALIZING IMPLEMENTATION PLAN.
ANY ITEMS THAT ARE FRAGILE SHALL BE PROTECTED FOR MOVING.
LOCATION OF RELOCATED FURNITURE AND EQUIPMENT SHALL BE COORDINATED WITH USER GROUP PRIOR PERFORMING WORK.
REFER TO MOVING PLANS FOR MORE DETAILS.

Sprinkler Requirements

THE EXISTING BUILDING IS COMPLETE WITH AN ACTIVE WET-PIPE SPRINKLER SYSTEM. SPRINKLER HEADS SHALL BE PROTECTED THROUGHOUT CONSTRUCTION TO ENSURE NO DAMAGE ENSUES.

DUE TO THE WORK BEING PERFORMED AS PART OF THIS PROJECT (DUCT INSTALLATION, CEILING TILE REMOVAL, ETC.), SPRINKLER HEADS SHALL BE REINSTATED INTO NEW CEILING TILES AS WORK PROGRESSES.

RELOCATION OF SPRINKLER PIPING WITHIN CEILING SPACES WILL NEED TO BE COMPLETED AS DUCTWORK INSTALLATION PROGRESSES. ALL SPRINKLER WORK WILL NEED TO BE COMPLETED IN ACCORDANCE WITH NFPA 13.

SEE HVAC DRAWINGS FOR SPRINKLER MODIFICATION DETAILS.

Construction Timeline and Notes

THE FOLLOWING REPRESENT CONSTRUCTION AREA ZONES AND DESCRIBE THE SCHEDULE REQUIREMENTS FOR CONSTRUCTION:

(A) Medical Offices and Community Hub

MINIMAL INTERFERENCE IN DAY-TO-DAY OPERATIONS W/ OCCUPANTS TEMPORARILY RELOCATING. SEE MOVING PLANS.

THIS AREA IS TO BE COMPLETED FIRST AS IT CAN SERVE AS A FLEX SPACE DURING THE REMAINDER OF CONSTRUCTION.

FURNITURE TO BE REMOVED AND STORED AS PER APPENDIX 'B' MOVE SERVICES

(B) Gymnasium

MINIMAL INTERFERENCE IN DAY-TO-DAY OPERATIONS W/ OCCUPANTS TEMPORARILY RELOCATING. SEE MOVING PLANS.

THIS AREA IS TO BE COMPLETED IN THE EARLY STAGES OF CONSTRUCTION AS IT CAN SERVE AS A FLEX SPACE DURING THE REMAINDER OF CONSTRUCTION.

THIS AREA IS AVAILABLE TO THE CONTRACTOR FOR THE ENTIRE PERIOD OF CONSTRUCTION WITHIN THIS ZONE.

FURNITURE TO BE REMOVED AND STORED AS PER APPENDIX 'B' MOVE SERVICES

(C) Reception Area

MINIMAL INTERFERENCE IN DAY-TO-DAY OPERATIONS W/ OCCUPANTS TEMPORARILY RELOCATING. SEE MOVING PLANS.

DURING CONSTRUCTION IN THIS AREA, ENTRANCE 155 CAN SERVE AS THE TEMPORARY MAIN ENTRANCE AND EXIT DURING CONSTRUCTION.

FURNITURE TO BE REMOVED AND STORED AS PER APPENDIX 'B' MOVE SERVICES

(D) Pre-School and Daycare Spaces

SOME INTERFERENCE TO DAY-TO-DAY ACTIVITIES. OCCUPANTS WILL REQUIRE TEMPORARY RELOCATION.

CONSTRUCTION TO RESULT IN THE RELOCATION OF MAXIMUM TWO ROOMS AT A TIME TO BOTH THE GYM AND THE COMMUNITY HUB. COMMUNITY HUB AND LOCKER WASHROOMS CAN BE SHARED DURING RELOCATION PERIODS. GYMNASIUM AND COMMUNITY HUB MUST BE OPERATIONAL PRIOR TO THE RELOCATION OF OTHER SPACES.

FURNITURE TO BE TAGGED AND RELOCATED AS REQUIRED. REFER ALSO TO APPENDIX 'B' MOVE SERVICES

(E) Corridors

SOME INTERFERENCE TO DAY-TO-DAY ACTIVITIES. OCCUPANTS WILL REQUIRE TEMPORARY RELOCATION.

THERE ARE CORRIDORS WHERE A LARGE AMOUNT OF DUCTWORK WILL NEED TO BE INSTALLED. ACCESS TO SPACES THAT HAVE NOT BEEN RELOCATED MUST BE RESTORED FOR EACH WORKING DAY. TEMPORARY BARRIERS MAY BE REQUIRED TO SEPARATE THE CONSTRUCTION ZONE FROM THE OCCUPIED PORTION OF THE CORRIDORS.

FURNITURE TO BE REMOVED AND STORED AS PER APPENDIX 'B' MOVE SERVICES

(F) Mechanical & Electrical Rooms

THESE ROOMS WILL REQUIRE ACCESS THROUGHOUT THE ENTIRE CONSTRUCTION PHASE, HOWEVER, THESE SPACES DO NOT IMPACT THE DAILY OPERATIONS OF THE COMMUNITY CENTER. SHUTDOWNS OF MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE COORDINATED WITH USER GROUP 2 WEEKS IN ADVANCE.

(G) Level 2 Office Spaces

MINIMAL INTERFERENCE IN DAY-TO-DAY OPERATIONS W/ OCCUPANTS TEMPORARILY RELOCATING. SEE MOVING PLANS.

THIS AREA IS AVAILABLE TO THE CONTRACTOR FOR THE ENTIRE PERIOD OF CONSTRUCTION WITHIN THIS ZONE.

FURNITURE TO BE REMOVED AND STORED AS PER APPENDIX 'B' MOVE SERVICES

(H) Kitchen

MAJOR INTERFERENCE TO DAY-TO-DAY ACTIVITIES.
A KITCHEN IS REQUIRED FOR DAYCARE SPACES TO BE OPERATIONAL. THERE IS A FOUR-WEEK TIMELINE FOR THE WORK IN THIS AREA, WHILE CATERING IS BEING PROVIDED DURING RENOVATION OF THIS SPACE. CONTRACTOR TO PROVIDE DCC REPRESENTATIVE WITH 6 WEEKS NOTICE PRIOR TO WORK COMMENCING IN THIS SPACE.

(I) Daycare 209 and 211

MAJOR DISRUPTIONS TO DAY-TO-DAY ACTIVITIES DUE TO STRUCTURAL REINFORCING. SPACE MUST BE CLOSED TO OCCUPANTS AND OCCUPANTS SHALL BE TEMPORARILY RELOCATED.

FURNITURE TO BE TAGGED AND RELOCATED AS REQUIRED. REFER ALSO TO APPENDIX 'B' MOVE SERVICES

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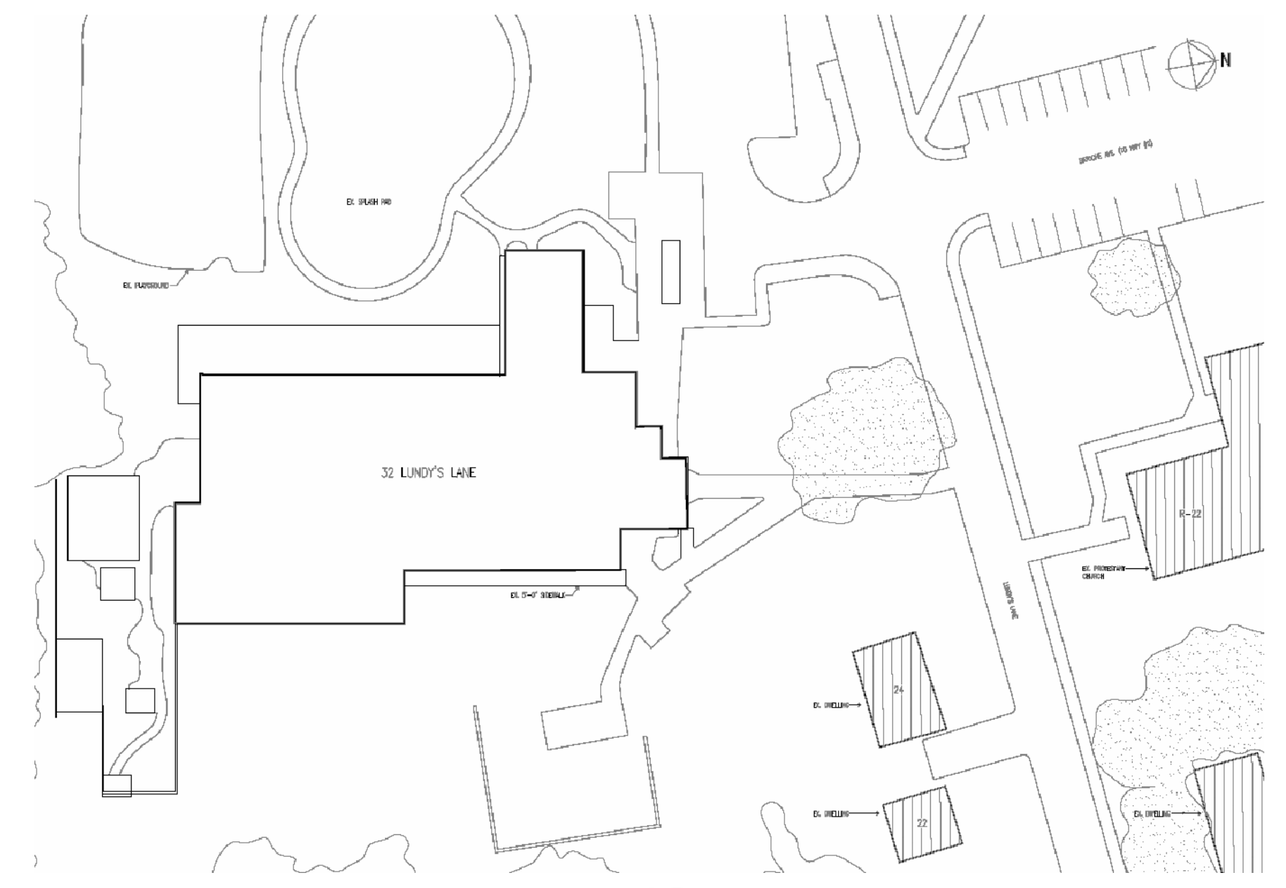
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CHRISTOPHER J. WARNER-SMITH
LICENCE 10122

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ÉCHELLE | SCALE

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE: Architectural | Architecture
DATE: 2026/06/23

SUJET | SUBJECT
PHASING PLAN

PRODUCTION	REVU | REVIEWED	
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DESSINÉ | DRAWN LS/LR	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
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NO. OTP | WBS NO.: N.700114.23.01.01
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NO. DESSIN | DWG. NO.: L-B35-8900 - 300

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Dernière mise à jour du fichier 2012-04-01
2026/Jun/23, 5:06pm kburke 300 H:\2022 Projects\22560 DCC HVAC\01 A DWGs\5 CADs\02 Architectural\100 Drawing Sheets\300 - Phasing Plan.dwg

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- BEFORE INTERRUPTING BUILDING SERVICES SUCH AS MECHANICAL, ELECTRICITY, WATER, GAS, ETC. THE CONTRACTOR MUST NOTIFY THE DCC REPRESENTATIVE AT LEAST 3 WORKING DAYS IN ADVANCE & OBTAIN APPROVAL.
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- ONCE WORK IS COMPLETE, CLEAN ENTIRE AREA (FLOORS, WALLS, DOORS, CEILINGS).
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ALL EXISTING GYPSUM BULKHEADS TO REMAIN UNLESS NOTED OTHERWISE.

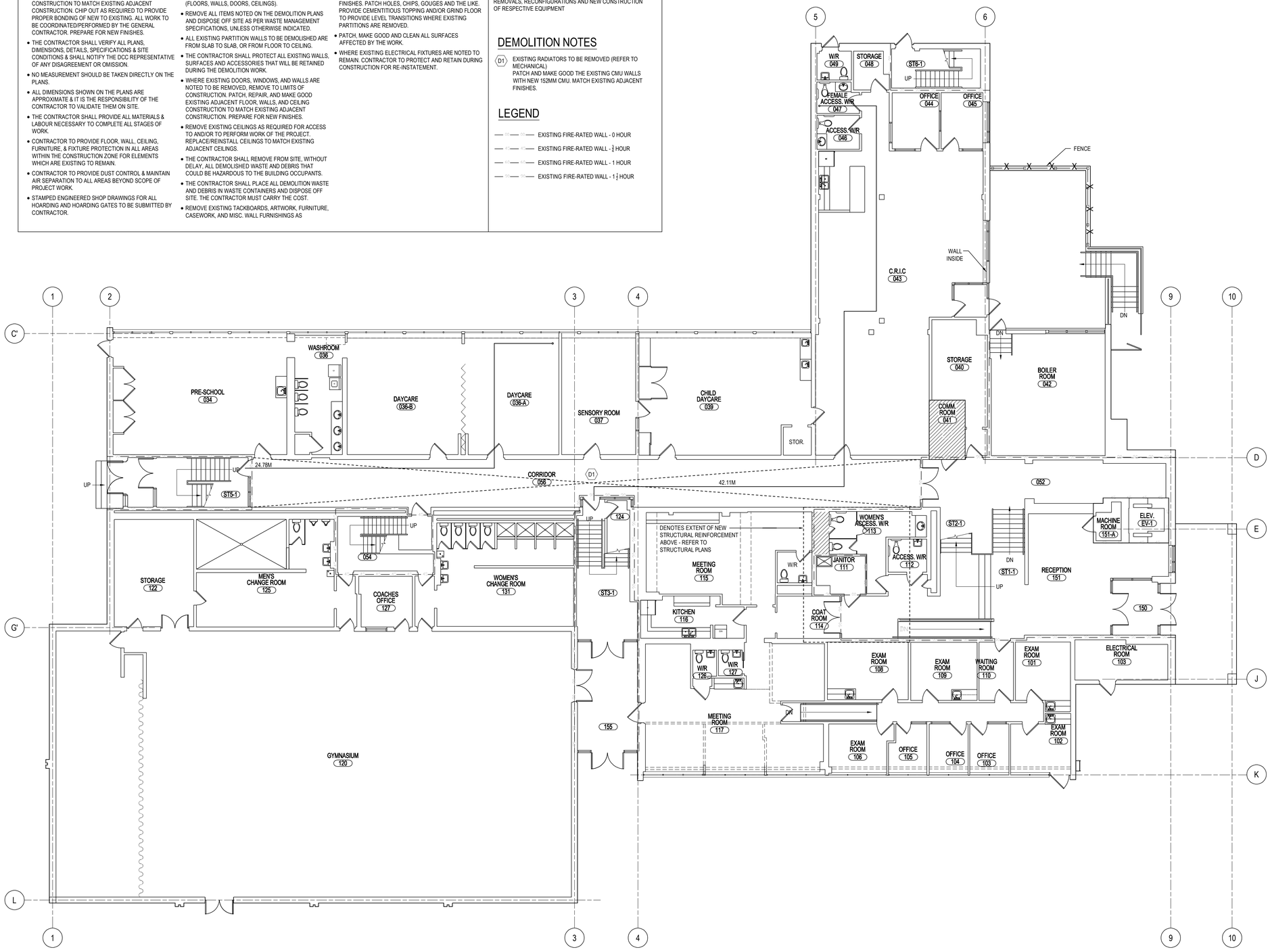
SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVALS, RECONFIGURATIONS AND NEW CONSTRUCTION OF RESPECTIVE EQUIPMENT

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(D1) EXISTING RADIATORS TO BE REMOVED (REFER TO MECHANICAL)
PATCH AND MAKE GOOD THE EXISTING CMU WALLS WITH NEW 152MM CMU. MATCH EXISTING ADJACENT FINISHES.

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1 / 301 LEVEL 1 FLOOR PLAN - EXISTING & REMOVALS
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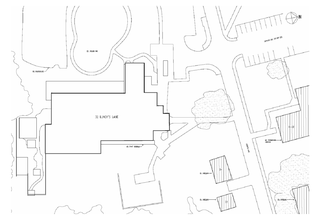
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ON

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CFB KINGSTON

MÉTIER | TRADE: Architectural | Architecture
DATE: 2026/08/26

SUJET | SUBJECT
LEVEL 01 - FLOOR PLAN
EXISTING AND REMOVALS

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NO. OTP | WBS NO. N.700114.23.01.01
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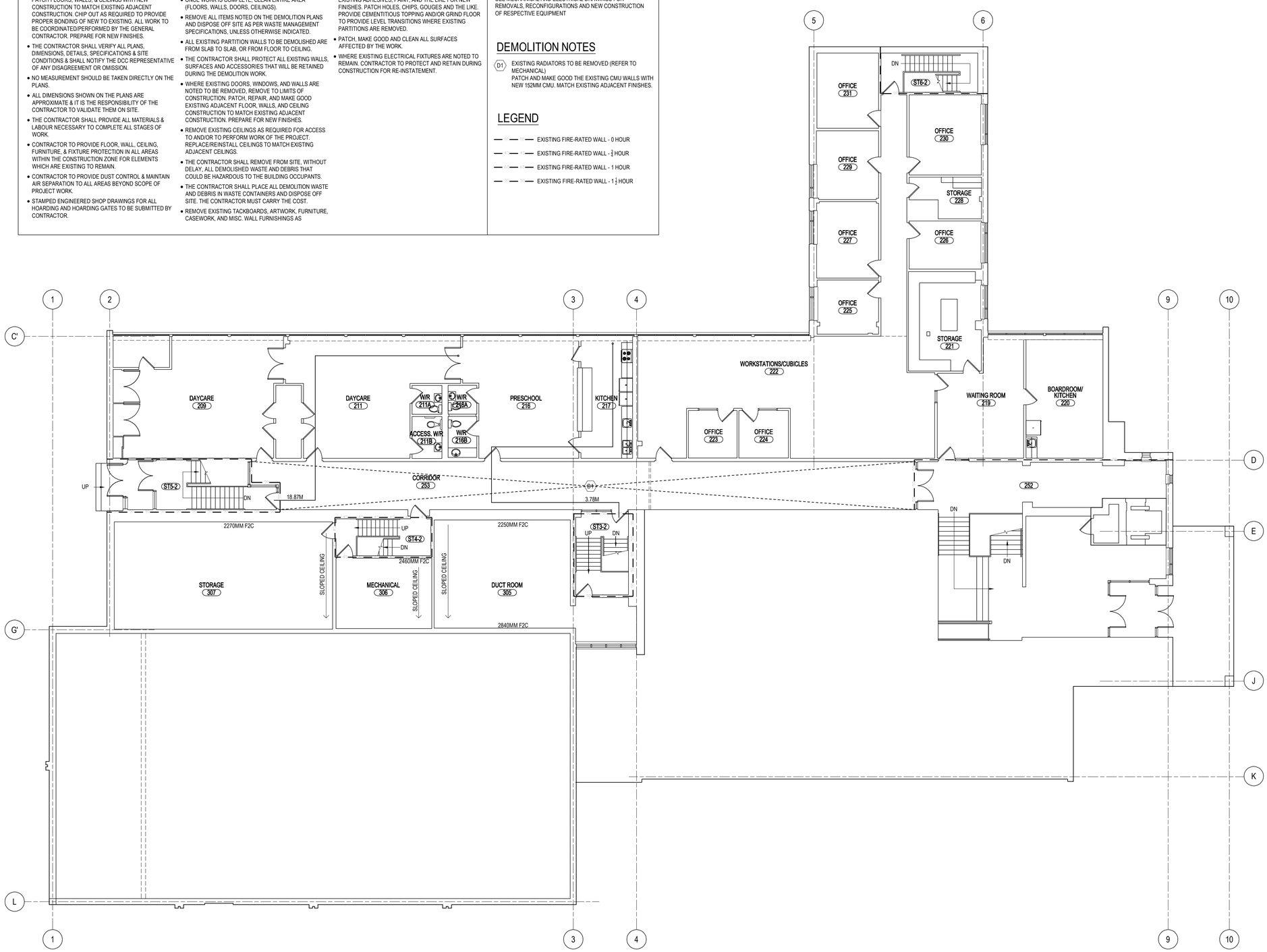
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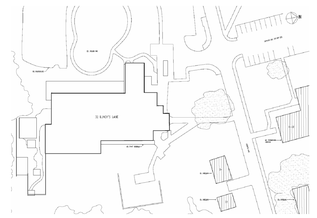
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200-310 Hunt Club Rd, Ottawa, ON. CAN.
Tele: (613) 728-0008 - Email: info@integratedesign.ca



ONTARIO ASSOCIATION OF ARCHITECTS
CHRISTOPHER J. WARNER-SMITH
LICENCE
10122

Dernière mise à jour du fichier 2012-04-01

NO.	DATE	REVISION	APPR.
E	2026/08/26	ISSUED FOR TENDER (R1)	
D	2025/11/21	ISSUED FOR TENDER	
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B	2025/01/31	ISSUED FOR 99% REVIEW	
A	2024/05/15	ISSUED FOR 60% REVIEW	

ÉCHELLE | SCALE

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE: Architectural | Architecture
DATE: 2026/08/26

SUJET | SUBJECT
LEVEL 02 - FLOOR PLAN
EXISTING AND REMOVALS

PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN: KB	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED: CWS	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.: N.700114.23.01.01
NO. DP | PF NO.: 500540682
NO. DESSIN | DWG. NO.: L-B35-8900 - 302

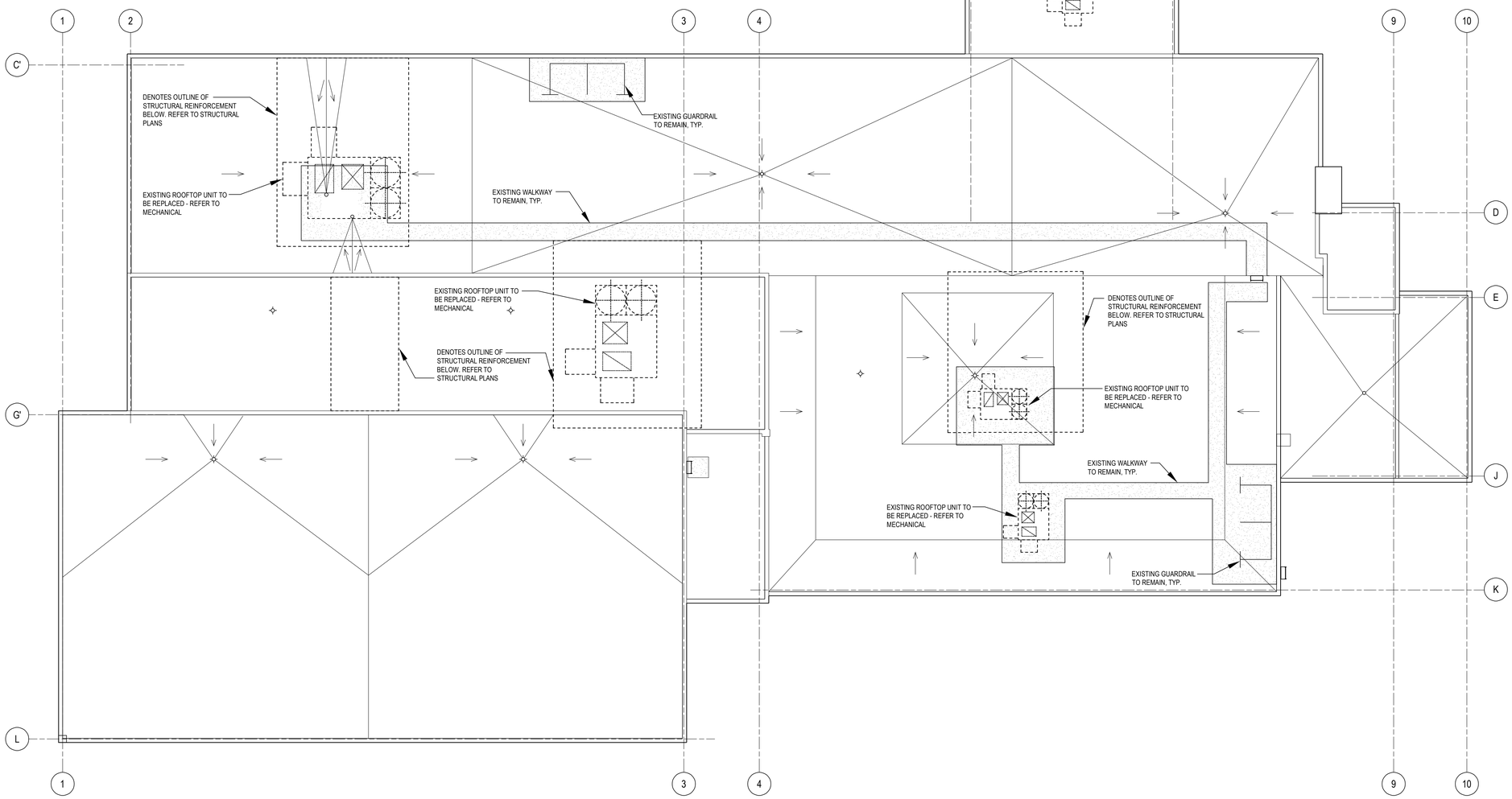
Canada

GENERAL NOTES:

- ALL WORK MUST COMPLY TO APPLICABLE BUILDING CODES AND STANDARDS.
- REFER TO THE DRAWINGS & SPECIFICATIONS OF THE DIFFERENT DISCIPLINES FOR THE WORK TO BE COORDINATED WITH THEM.
- REFER ALSO TO MECHANICAL & ELECTRICAL DRAWINGS FOR EXTENT OF REMOVALS. WHERE EXISTING M&E IS REMOVED, CAP OFF PIPING, DUCTWORK, CONDUIT, ETC. BELOW FLOOR, ABOVE CEILING, AND BEYOND WALL. PATCH FLOORS, WALLS, & CEILINGS WITH NEW CONSTRUCTION TO MATCH EXISTING ADJACENT CONSTRUCTION. CHIP OUT AS REQUIRED TO PROVIDE PROPER BONDING OF NEW TO EXISTING. ALL WORK TO BE COORDINATED/PERFORMED BY THE GENERAL CONTRACTOR. PREPARE FOR NEW FINISHES.
- THE CONTRACTOR SHALL VERIFY ALL PLANS, DIMENSIONS, DETAILS, SPECIFICATIONS & SITE CONDITIONS & SHALL NOTIFY THE DCC REPRESENTATIVE OF ANY DISAGREEMENT OR OMISSION.
- NO MEASUREMENT SHOULD BE TAKEN DIRECTLY ON THE PLANS.
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- THE CONTRACTOR SHALL PROVIDE ALL MATERIALS & LABOUR NECESSARY TO COMPLETE ALL STAGES OF WORK.
- CONTRACTOR TO PROVIDE FLOOR, WALL, CEILING, FURNITURE, & FIXTURE PROTECTION IN ALL AREAS WITHIN THE CONSTRUCTION ZONE FOR ELEMENTS WHICH ARE EXISTING TO REMAIN.
- CONTRACTOR TO PROVIDE DUST CONTROL & MAINTAIN AIR SEPARATION TO ALL AREAS BEYOND SCOPE OF PROJECT WORK.
- STAMPED ENGINEERED SHOP DRAWINGS FOR ALL HOARDING AND HOARDING GATES TO BE SUBMITTED BY CONTRACTOR.
- BEFORE INTERRUPTING BUILDING SERVICES SUCH AS MECHANICAL, ELECTRICITY, WATER, GAS, ETC. THE CONTRACTOR MUST NOTIFY THE DCC REPRESENTATIVE AT LEAST 3 WORKING DAYS IN ADVANCE & OBTAIN APPROVAL.
- EXISTING EXTERIOR AND DEMISING WALLS TO REMAIN AND BE PROTECTED. CONTRACTOR TO REPAIR ANY DAMAGES TO THE SATISFACTION OF THE DCC REPRESENTATIVE.
- ONCE WORK IS COMPLETE, CLEAN ENTIRE AREA (FLOORS, WALLS, DOORS, CEILINGS).
- REMOVE ALL ITEMS NOTED ON THE DEMOLITION PLANS AND DISPOSE OFF SITE AS PER WASTE MANAGEMENT SPECIFICATIONS, UNLESS OTHERWISE INDICATED.
- ALL EXISTING PARTITION WALLS TO BE DEMOLISHED ARE FROM SLAB TO SLAB, OR FROM FLOOR TO CEILING.
- THE CONTRACTOR SHALL PROTECT ALL EXISTING WALLS, SURFACES AND ACCESSORIES THAT WILL BE RETAINED DURING THE DEMOLITION WORK.
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- WHERE EXISTING ELECTRICAL FIXTURES ARE NOTED TO REMAIN. CONTRACTOR TO PROTECT AND RETAIN DURING CONSTRUCTION FOR RE-INSTATEMENT.

LEGEND

- EXISTING ROOF DRAIN (APPROX. EXISTING LOCATION)
- EXISTING ROOF SLOPE (APPROX. EXISTING LOCATION)
- EXISTING ACCESS LADDER



1/303 ROOF PLAN - EXISTING AND REMOVALS
SCALE HORIZONTAL: 1:100
SCALE VERTICAL:

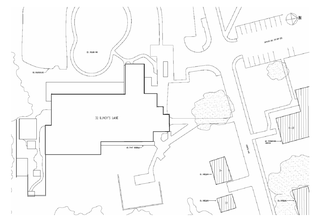
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NIVEAU DE SÉCURITÉ | LEVEL OF SECURITY
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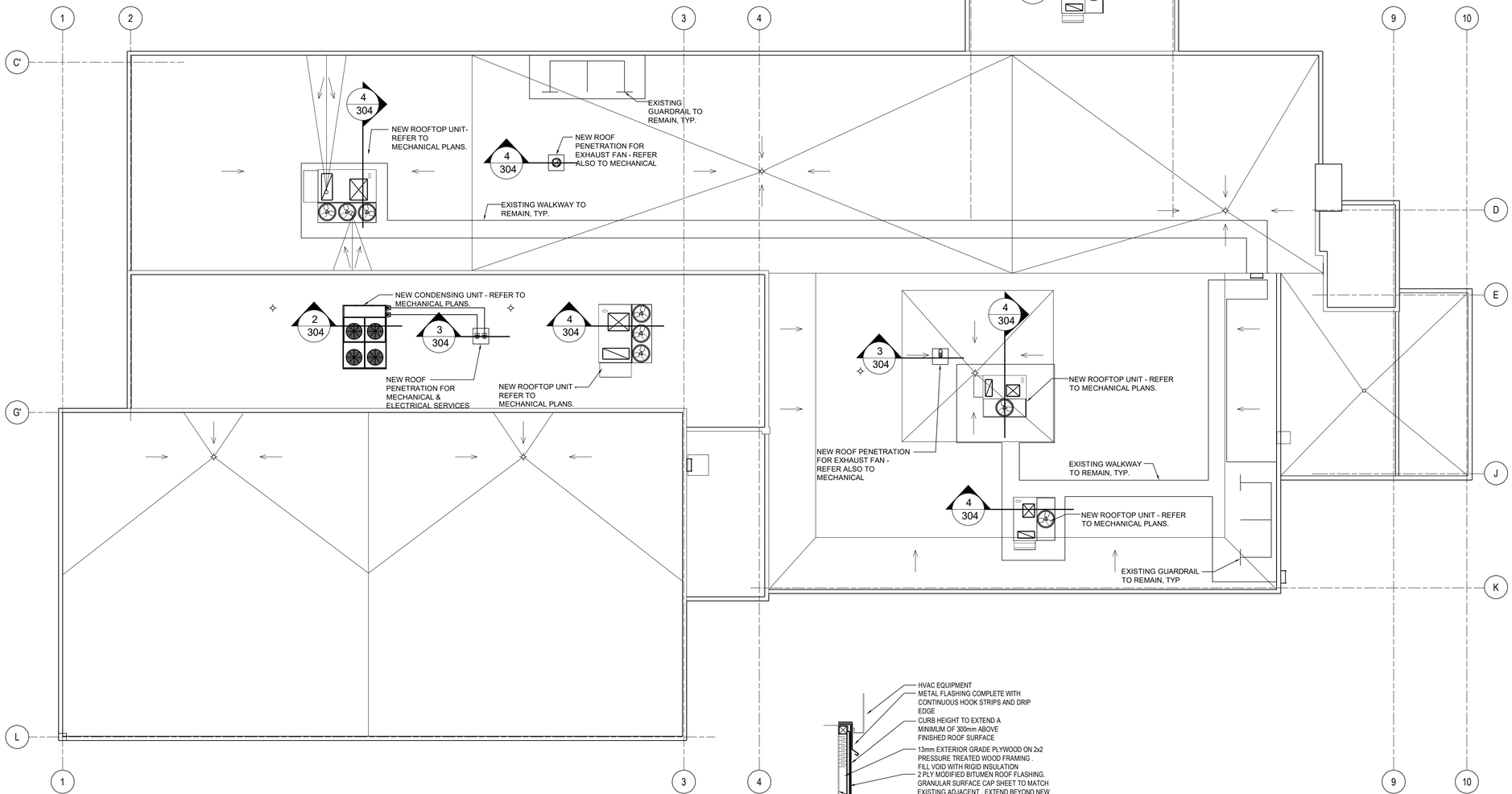
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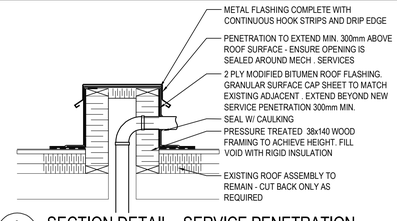
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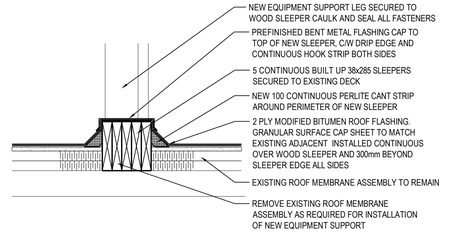


1 304 ROOF PLAN - NEW CONSTRUCTION
SCALE HORIZONTAL:1:100
SCALE VERTICAL:

4 304 SECTION DETAIL - MECH. CURB DETAIL
SCALE HORIZONTAL: 1:10
SCALE VERTICAL:



3 304 SECTION DETAIL - SERVICE PENETRATION
SCALE HORIZONTAL: 1:10
SCALE VERTICAL:



2 304 SECTION DETAIL - ROOF SLEEPER
SCALE HORIZONTAL: 1:10
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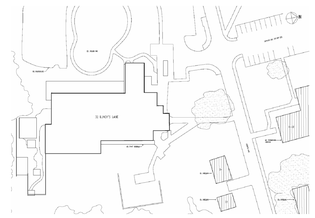
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GENERAL DEMOLITION NOTES

COORDINATE CEILING REMOVALS WITH NEW CONSTRUCTION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

ALL EXISTING GYPSUM BULKHEADS TO REMAIN UNLESS NOTED OTHERWISE.

ALL REMOVALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 01 35 43 ENVIRONMENTAL PROTECTION .

SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVALS, RECONFIGURATIONS AND NEW CONSTRUCTION OF RESPECTIVE EQUIPMENT

DEMOLITION NOTES

D1 EXISTING SUSPENDED ACOUSTIC CEILING. REMOVE SECTION OF EXISTING SUSPENDED ACOUSTIC TILE CEILING AND SUSPENSION SYSTEM INCLUDING EXISTING MECHANICAL AND ELECTRICAL DEVICES. PREPARE FOR NEW CONSTRUCTION.

D2 EXISTING LIGHT FIXTURE TO BE REINSTATED IN NEW CEILING. ENSURE LIGHT FIXTURE DOES NOT RELY ON CEILING GRID SYSTEM TO REMAIN SUSPENDED PRIOR TO REMOVAL OF EXISTING CEILING. PROVIDE CHAIN SUSPENSION TO U/S OF STRUCTURAL DECK WHERE NO OTHER MEANS OF LIGHT FIXTURE SUSPENSION EXISTS

D3 DENOTES EXTENT OF NEW STRUCTURAL REINFORCEMENT ABOVE - REFER TO STRUCTURAL PLANS

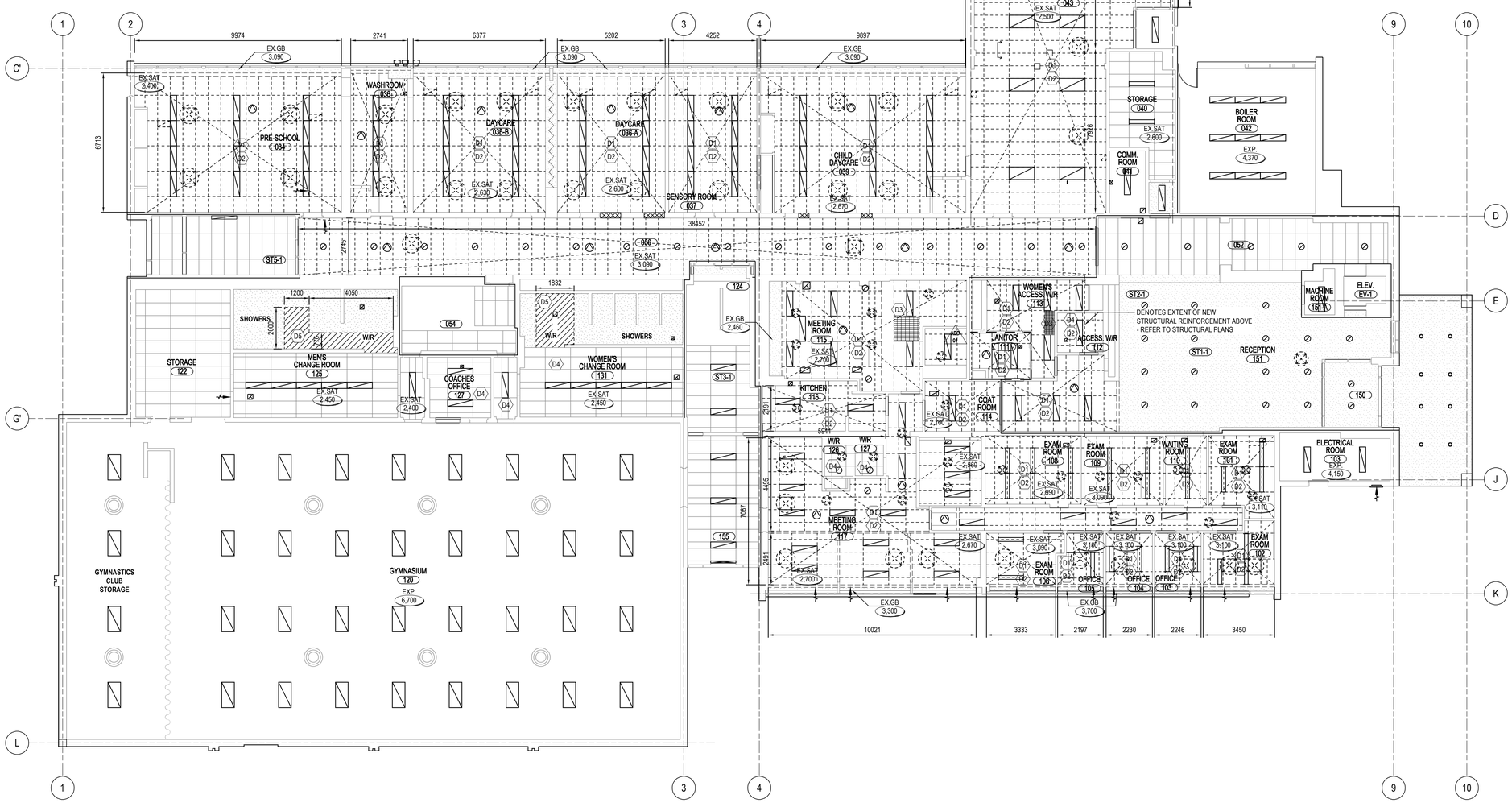
D4 REMOVE AND RETAIN EXISTING CEILING TILES AS REQUIRED FOR MECHANICAL AND ELECTRICAL WORK. COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS. EXISTING CEILING GRID TO REMAIN. PROTECT EXISTING CEILING TILES FOR REINSTATEMENT

D5 REMOVE & RETAIN EXISTING CEILING MOUNTED PROJECTOR AND COORDINATE RE-INSTALLATION IN SAME LOCATION IN NEW CEILING WITH FRAMING AND BACKING TO SUIT

D6 EXISTING SLOPED GYPSUM CEILING. REMOVE GYPSUM BOARD FINISH TO LIMITS OF CONSTRUCTION AND PREPARE FOR NEW CONSTRUCTION. COORDINATE WITH STRUCTURAL PLANS

REFLECTED CEILING PLAN LEGEND

- GYPSUM BOARD CEILING/BULKHEAD TO REMAIN
- GYPSUM BOARD CEILING/BULKHEAD TO BE REMOVED
- SUSPENDED ACOUSTIC TILE CEILING TO REMAIN
- SUSPENDED ACOUSTIC TILE CEILING TO BE REMOVED
- DENOTES NEW OPENING IN EXISTING BLOCK WALL FOR NEW MECHANICAL. ENSURE CONTINUOUS FIRESTOPPING IS PROVIDED AROUND OPENING. REFER TO MECHANICAL FOR COORDINATION OF OPENING.
- MECHANICAL DIFFUSERS/GRILLES EXISTING TO REMAIN - REFER TO MECHANICAL PLANS
- MECHANICAL DIFFUSERS/GRILLES EXISTING TO BE REMOVED - REFER TO MECHANICAL PLANS
- ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS
- ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS
- FIRE ALARM DETECTOR EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS



1 305 LEVEL 1 - REFLECTED CEILING PLAN - EXISTING AND REMOVALS

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SCALE VERTICAL:

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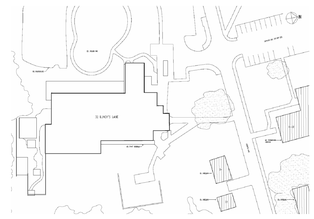
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CHRISTOPHER J. WARNER-SMITH
LICENCE
10122

Dernière mise à jour du fichier 2012-04-01

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ON

PROJET | PROJECT
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CFB KINGSTON

MÉTIER | TRADE: Architectural | Architecture
DATE: 2026/08/26

SUJET | SUBJECT
LEVEL 01 - REFLECTED CEILING PLAN - EXISTING AND REMOVALS

PRODUCTION	REVU	REVIEWED	
ÉTUDIÉ | DESIGNED	O ING | ENG O		AGENT CONC | DES O
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COORDINATION			INCENDIE | FIRE

NO. OTP | WBS NO. N.700114.23.01.01
NO. DP | PF NO. 500540682
NO. DESSIN | DWG. NO. L-B35-8900 - 305

Canada

GENERAL NOTES:

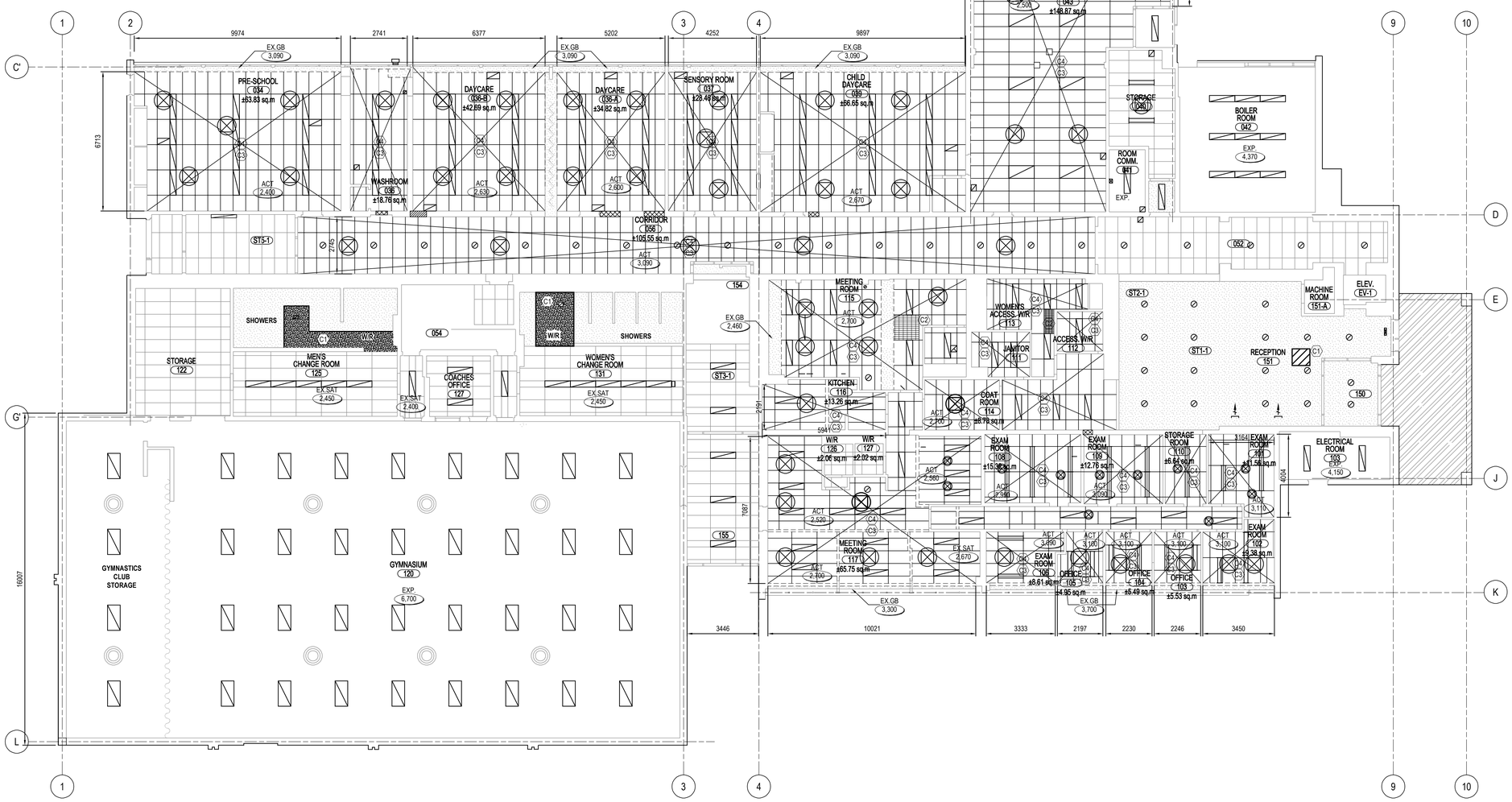
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- PATCH, MAKE GOOD AND CLEAN ALL SURFACES AFFECTED BY THE WORK.
- WHERE EXISTING ELECTRICAL FIXTURES ARE NOTED TO REMAIN: CONTRACTOR TO PROTECT AND RETAIN DURING CONSTRUCTION FOR RE-INSTATEMENT.

REFLECTED CEILING PLAN LEGEND

- GYPSUM BOARD CEILING/BULKHEAD EXISTING TO REMAIN
- GYPSUM BOARD CEILING/BULKHEAD NEW - MATCH EXISTING CEILING HEIGHT UNO.
- SUSPENDED ACOUSTIC TILE CEILING EXISTING TO REMAIN
- SUSPENDED ACOUSTIC TILE CEILING NEW - MATCH EXISTING CEILING HEIGHT UNO.
- MECHANICAL DIFFUSERS/GRILLES NEW - REFER TO MECHANICAL PLANS
- MECHANICAL DIFFUSERS/GRILLES EXISTING TO REMAIN - REFER TO MECHANICAL
- ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS
- ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS
- DENOTES WALL INFILL IN EXISTING BLOCK WALL WHERE MECHANICAL PENETRATIONS HAVE BEEN REMOVED. ASSUME 914MM x 914MM PATCH. REFER ALSO TO MECHANICAL PLANS.
- NEW INFILL CONSTRUCTION: 16MM TYPE 'X' GYPSUM WALL BOARD 92MM METAL STUDS 16MM TYPE 'X' GYPSUM WALL BOARD PROVIDE FIRE CAULKING AROUND ALL JOINTS WHERE WALL INFILL MEETS EXISTING CONSTRUCTION
- DENOTES NEW OPENING IN EXISTING BLOCK WALL FOR NEW MECHANICAL. ENSURE CONTINUOUS FIRESTOPPING IS PROVIDED AROUND OPENING. REFER TO MECHANICAL FOR COORDINATION OF OPENING.

CONSTRUCTION NOTES

- C1 PATCH AND MAKE GOOD GYPSUM CEILING. ENSURE FLUSH FINISH AND MATCH EXISTING ADJACENT FINISHES
- C2 REINSTATE SKYLIGHT GRILLE IN ACT CEILING
- C3 EXISTING LIGHT FIXTURES TO BE REINSTATED IN NEW ACT CEILING
- C4 PROVIDE NEW ACT CEILING TILE AND SYSTEM - MATCH EXISTING CEILING HEIGHT



1 306 LEVEL 1 - REFLECTED CEILING PLAN - NEW CONSTRUCTION
SCALE HORIZONTAL: 1:100
SCALE VERTICAL:

Gouvernement du Canada / Government of Canada

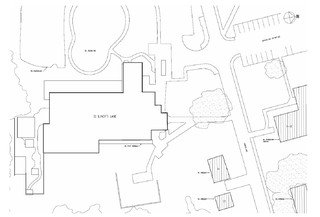
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GENERAL DEMOLITION NOTES

COORDINATE CEILING REMOVALS WITH NEW CONSTRUCTION. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS

ALL EXISTING GYPSUM BULKHEADS TO REMAIN UNLESS NOTED OTHERWISE.

ALL REMOVALS SHALL BE IN ACCORDANCE WITH SPECIFICATION 01 35 43 ENVIRONMENTAL PROTECTION .

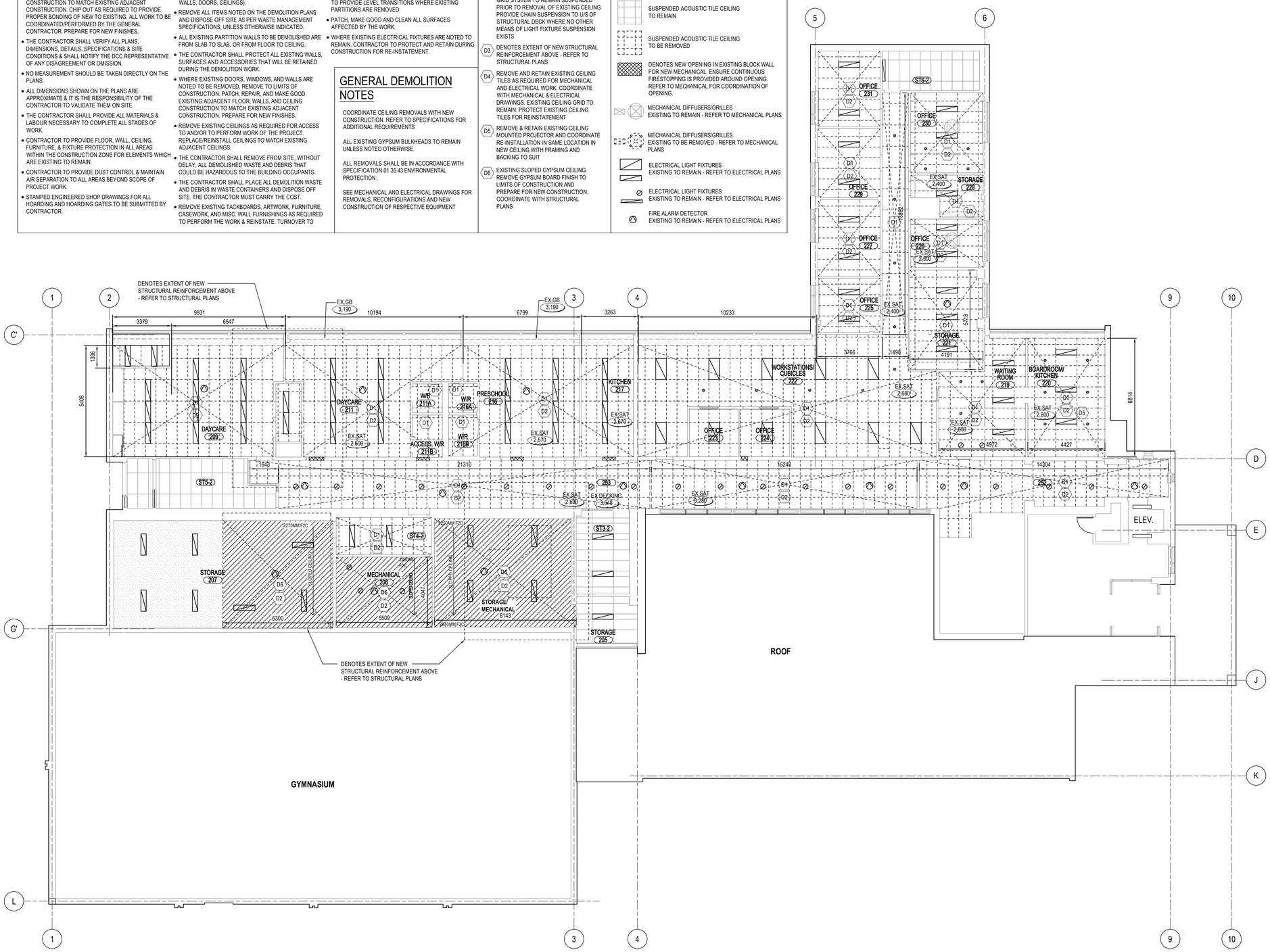
SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVALS, RECONFIGURATIONS AND NEW CONSTRUCTION OF RESPECTIVE EQUIPMENT

DEMOLITION NOTES

- D1 EXISTING SUSPENDED ACOUSTIC CEILING. REMOVE SECTION OF EXISTING SUSPENDED ACOUSTIC TILE CEILING AND SUSPENSION SYSTEM INCLUDING EXISTING MECHANICAL AND ELECTRICAL DEVICES. PREPARE FOR NEW CONSTRUCTION.
- D2 EXISTING LIGHT FIXTURE TO BE REINSTATED IN NEW CEILING. ENSURE LIGHT FIXTURE DOES NOT RELY ON CEILING GRID SYSTEM TO REMAIN SUSPENDED PRIOR TO REMOVAL OF EXISTING CEILING. PROVIDE CHAIN SUSPENSION TO U/S OF STRUCTURAL DECK WHERE NO OTHER MEANS OF LIGHT FIXTURE SUSPENSION EXISTS
- D3 DENOTES EXTENT OF NEW STRUCTURAL REINFORCEMENT ABOVE - REFER TO STRUCTURAL PLANS
- D4 REMOVE AND RETAIN EXISTING CEILING TILES AS REQUIRED FOR MECHANICAL AND ELECTRICAL WORK. COORDINATE WITH MECHANICAL & ELECTRICAL DRAWINGS. EXISTING CEILING GRID TO REMAIN. PROTECT EXISTING CEILING TILES FOR REINSTATEMENT
- D5 REMOVE & RETAIN EXISTING CEILING MOUNTED PROJECTOR AND COORDINATE RE-INSTALLATION IN SAME LOCATION IN NEW CEILING WITH FRAMING AND BACKING TO SUIT
- D6 EXISTING SLOPED GYPSUM CEILING. REMOVE GYPSUM BOARD FINISH TO LIMITS OF CONSTRUCTION AND PREPARE FOR NEW CONSTRUCTION. COORDINATE WITH STRUCTURAL PLANS

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- ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS
- ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS
- FIRE ALARM DETECTOR EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS



1 / 307 LEVEL 2 - REFLECTED CEILING PLAN - EXISTING AND REMOVALS

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SCALE VERTICAL:

Gouvernement du Canada / Government of Canada

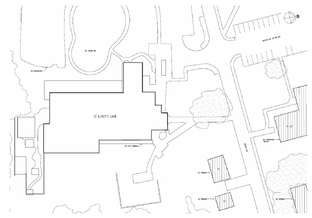
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- THE CONTRACTOR SHALL PLACE ALL DEMOLITION WASTE AND DEBRIS IN WASTE CONTAINERS AND DISPOSE OFF SITE. THE CONTRACTOR MUST CARRY THE COST.
- REMOVE EXISTING TACKBOARDS, ARTWORK, FURNITURE, CASEWORK, AND MISC. WALL FURNISHINGS AS REQUIRED TO PERFORM THE WORK & REINSTATE. TURNOVER TO DCC REPRESENTATIVE IN AREAS OF REMOVALS FOR NEW CONSTRUCTION. COORDINATE WITH DCC REPRESENTATIVE FOR RELOCATION IF REQUIRED.
- GENERAL CONTRACTOR TO MAKE GOOD ALL FINISHES WHERE MECHANICAL & ELECTRICAL WORK PENETRATES EXISTING FLOORS, PARTITIONS, & CEILINGS.
- PATCH EXISTING FLOOR FOR NEW FINISHES. REMOVE EXISTING ADHESIVES, PAINT, AND THE LIKE FOR NEW FINISHES. PATCH HOLES, CHIPS, GOUGES AND THE LIKE. PROVIDE CEMENTITIOUS TOPPING AND/OR GRIND FLOOR TO PROVIDE LEVEL TRANSITIONS WHERE EXISTING PARTITIONS ARE REMOVED.
- PATCH, MAKE GOOD AND CLEAN ALL SURFACES AFFECTED BY THE WORK.
- WHERE EXISTING ELECTRICAL FIXTURES ARE NOTED TO REMAIN. CONTRACTOR TO PROTECT AND RETAIN DURING CONSTRUCTION FOR RE-INSTATEMENT.

CONSTRUCTION NOTES

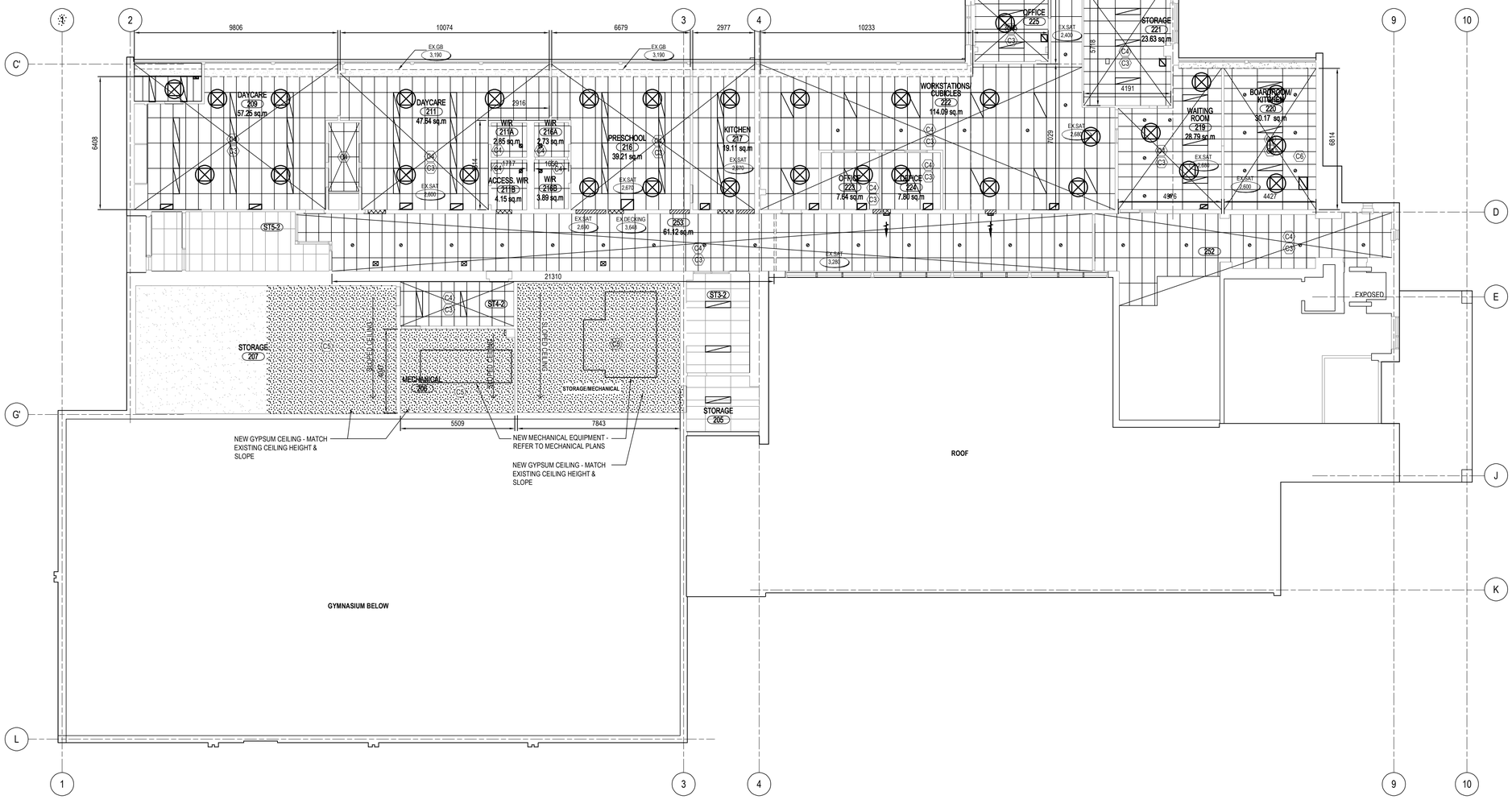
- C1 PATCH AND MAKE GOOD GYPSUM CEILING. ENSURE FLUSH FINISH AND MATCH EXISTING ADJACENT FINISHES
- C2 REINSTATE SKYLIGHT GRILLE IN ACT CEILING
- C3 EXISTING LIGHT FIXTURES TO BE REINSTATED IN NEW ACT CEILING
- C4 PROVIDE NEW ACT CEILING TILE AND SYSTEM - MATCH EXISTING CEILING HEIGHT
- C5 PROVIDE NEW GYPSUM CEILING - MATCH EXISTING CEILING HEIGHT AND SLOPE - WHERE MEETING EXISTING ADJACENT CEILING ENSURE FLUSH FINISH AND MATCH ADJACENT FINISHES
- C6 RE-INSTALL EXISTING CEILING MOUNTED PROJECTOR IN SAME LOCATION IN NEW CEILING WITH FRAMING AND BACKING TO SUIT

REFLECTED CEILING PLAN LEGEND

- GYPSUM BOARD CEILING/BULKHEAD EXISTING TO REMAIN
- GYPSUM BOARD CEILING/BULKHEAD NEW - MATCH EXISTING CEILING HEIGHT UNO.
- SUSPENDED ACOUSTIC TILE CEILING EXISTING TO REMAIN
- SUSPENDED ACOUSTIC TILE CEILING NEW - MATCH EXISTING CEILING HEIGHT UNO.
- MECHANICAL DIFFUSERS/GRILLES NEW - REFER TO MECHANICAL PLANS
- MECHANICAL DIFFUSERS/GRILLES EXISTING TO REMAIN - REFER TO MECHANICAL
- ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS
- ELECTRICAL LIGHT FIXTURES EXISTING TO REMAIN - REFER TO ELECTRICAL PLANS
- DENOTES WALL INFILL IN EXISTING BLOCK WALL WHERE MECHANICAL PENETRATIONS HAVE BEEN REMOVED. ASSUME 914MM x 914MM PATCH. REFER ALSO TO MECHANICAL PLANS.

NEW INFILL CONSTRUCTION:
16MM TYPE 'X' GYPSUM WALL BOARD
92MM METAL STUDS
16MM TYPE 'X' GYPSUM WALL BOARD
PROVIDE FIRE CAULKING AROUND ALL JOINTS WHERE WALL INFILL MEETS EXISTING CONSTRUCTION

- DENOTES NEW OPENING IN EXISTING BLOCK WALL FOR NEW MECHANICAL. ENSURE CONTINUOUS FIRESTOPPING IS PROVIDED AROUND OPENING. REFER TO MECHANICAL FOR COORDINATION OF OPENING.



1 / 308 LEVEL 2 - REFLECTED CEILING PLAN - NEW CONSTRUCTION

SCALE HORIZONTAL: 1:100
SCALE VERTICAL:

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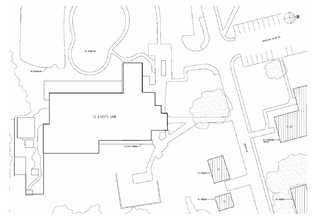
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Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE
Architectural | Architecture

DATE
2026/08/26

SUJET | SUBJECT
LEVEL 02 -
REFLECTED CEILING PLAN -
NEW CONSTRUCTION

PRODUCTION	REVU	REVIEWED
ÉTUDIÉ | DESIGNED	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN KB	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED CWS	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.
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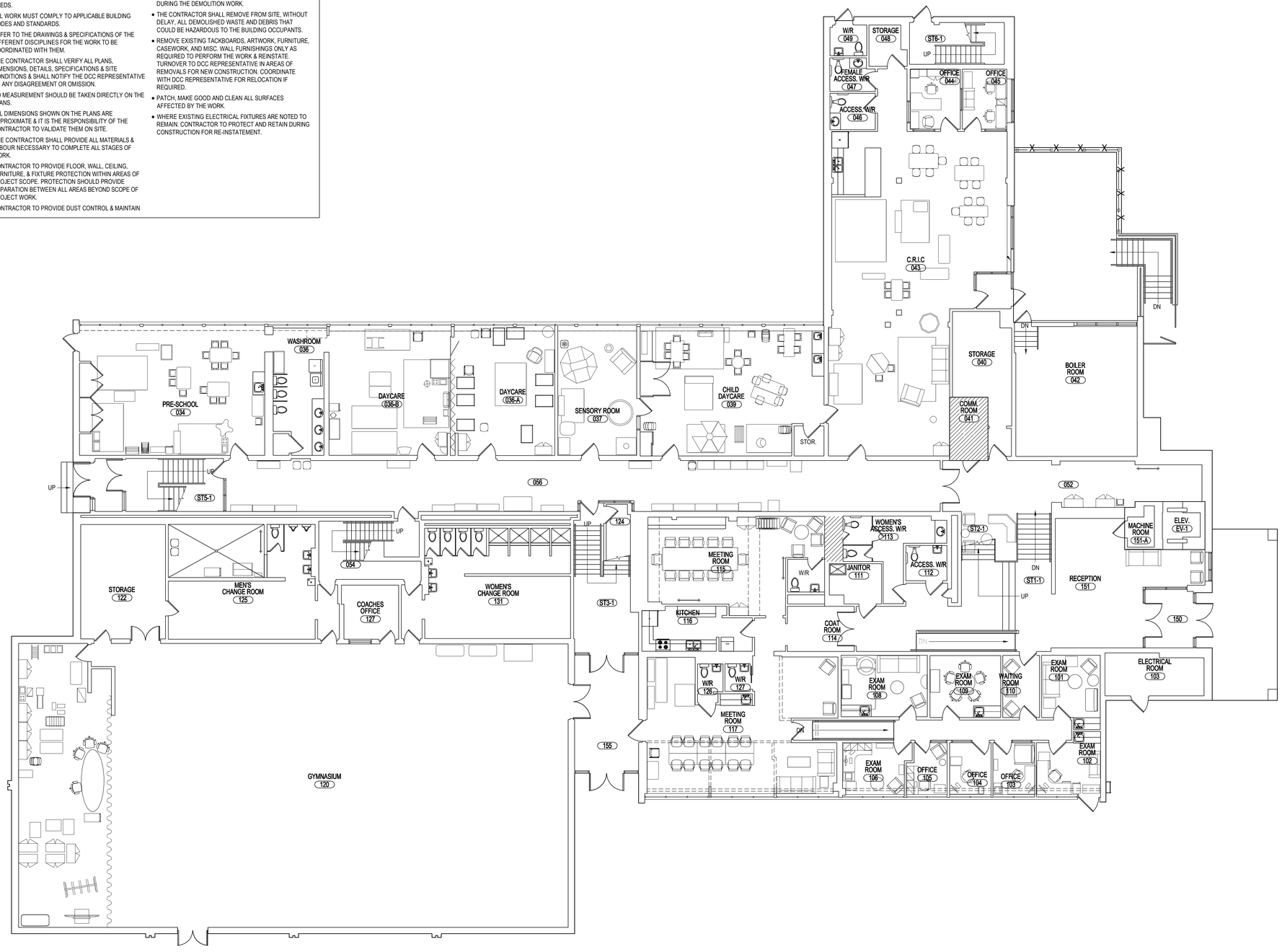
NO. DP | PF NO.
500540682

NO. DESSIN | DWG. NO.
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- ONCE WORK IS COMPLETE, CLEAN ENTIRE AREA (FLOORS, WALLS, DOORS, CEILINGS).
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1
309
LEVEL 1 FLOOR PLAN - EXISTING FURNITURE
SCALE HORIZONTAL: 1:100
SCALE VERTICAL:

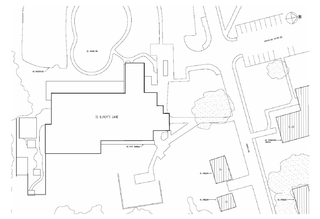
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CFB KINGSTON

MÉTIER | TRADE
Architectural | Architecture

DATE
2026/08/26

SUJET | SUBJECT
LEVEL 01 - FLOOR PLAN
EXISTING FURNITURE

PRODUCTION	REVU	REVIEWED	
ÉTUDIÉ | DESIGNED	O ING | ENG O		AGENT CONC | DES O
DESSINÉ | DRAWN KB	CLIENT | CUSTOMER		GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED CWS	CMDT CSG | SECT OC		GEST CONC | DES MGR
COORDINATION			INCENDIE | FIRE

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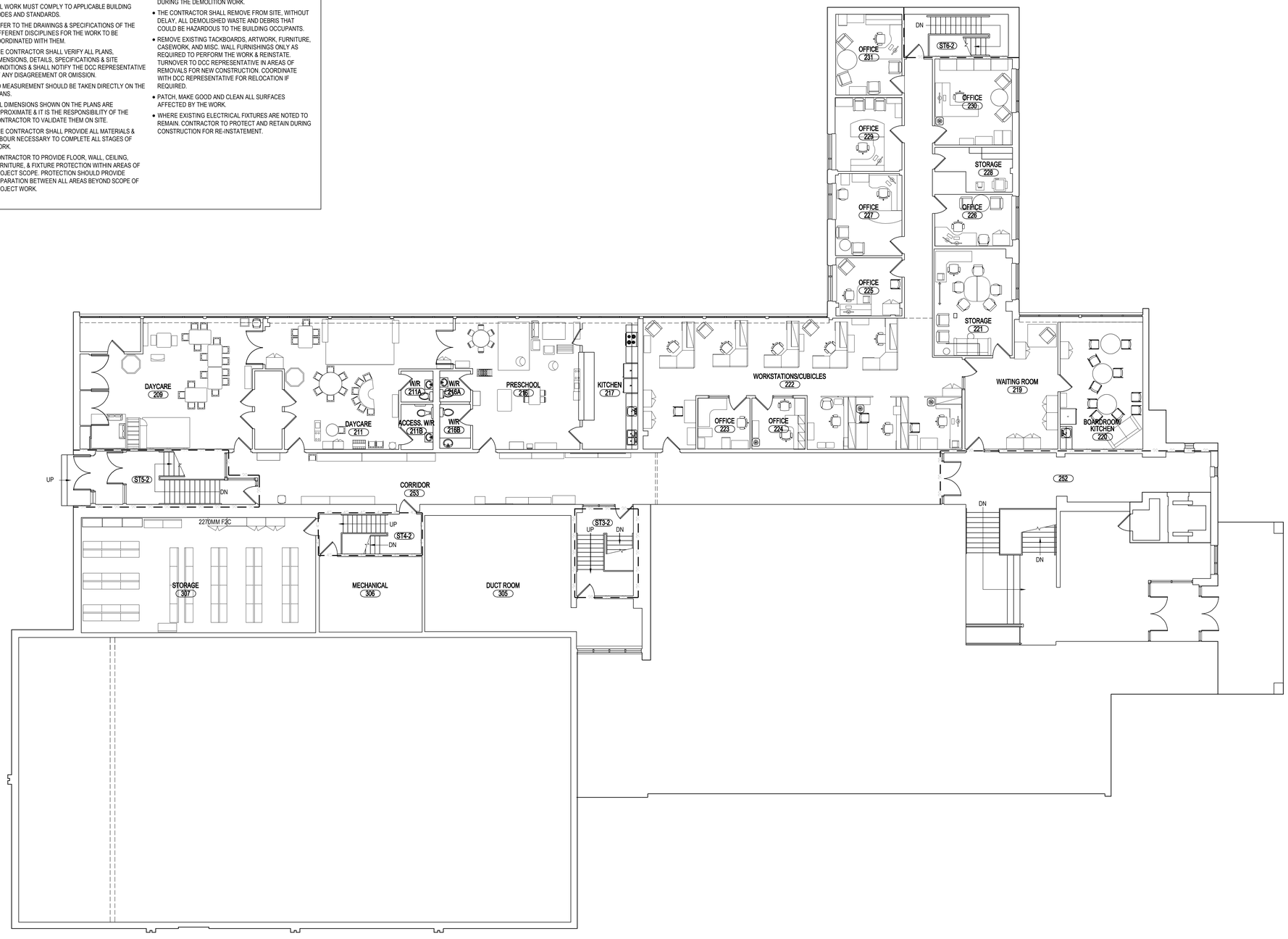
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1 / 310 LEVEL 2 FLOOR PLAN - EXISTING FURNITURE
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SCALE VERTICAL:

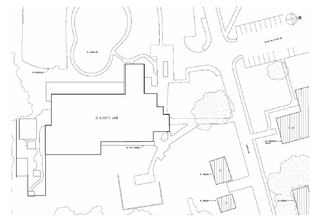
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MÉTIER | TRADE: Architectural | Architecture
DATE: 2026/08/26

SUJET | SUBJECT
LEVEL 02 - FLOOR PLAN
EXISTING FURNITURE

PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN: KB	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
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COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.: N.700114.23.01.01
NO. DP | PF NO.: 500540682
NO. DESSIN | DWG. NO.: L-B35-8900 - 310

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GENERAL MECHANICAL NOTES

1. CONFORM TO INSTRUCTIONS TO BIDDERS, GENERAL CONDITIONS AND GENERAL REQUIREMENTS
2. THIS SECTIONS SHALL APPLY TO DIVISIONS 21, 23, & 25
3. BEFORE SUBMITTING TENDERS, EXAMINE ALL DRAWINGS. EXTRAS WILL NOT BE ALLOWED FOR FAILURE TO DO SO.
4. PROVIDE ALL LABOUR, MATERALS AND EQUIPMENT NECESSARY TO EXECUTE THE WORK SHOWN AND DESCRIBED. INSTALLATION OF MATERIALS SHALL MEET ALL APPLICABLE PROVINCIAL, FEDERAL AND MUNICIPAL REQUIREMENTS. (NBC STANDARDS)
5. OBTAIN PERMITS AND PAY ALL FEES FOR WORK AND REQUIRED INSPECTIONS
6. ALL MATERIALS SHALL CONFORM TO CSA, HEPC AND CEC REQUIREMENTS AND SHALL BEAR CSA LABEL. GAS FIRED EQUIPMENT SHALL BEAR CGA LABEL
7. TEMPORARY LIGHT, POWER AND WATER BY GENERAL CONTRACTOR
8. PROVIDE TEMPORARY BUILDINGS AND MATERIAL STORAGE AS REQUIRED AND BE RESPONSIBLE FOR ANY LOSS OR DAMAGE THERETO
9. SUBMIT SAMPLES OF MATERIALS WHEN REQUIRED
10. SUBMIT SHOP DRAWINGS FOR REVIEW COVERING MANUFACTURED ITEMS, IE. ERV, AHU, UNIT HEATERS, VOLUME BOXES, PLUMBING FIXTURES, REHEAT COILS, ETC.
11. SUPPLY AND LOCATE ALL BASES, SUPPORTS, SLEEVES, CURBS, ETC. REQUIRED FOR THIS WORK. FLASHING BY ROOF TRADES. COUNTER FLASHING BY THIS CONTRACTOR
12. UNLESS OTHERWISE NOTED, ALL MOTORS OVER 1/2HP SHALL BE 3 PHASE - 575 OR 208 VOLTS
13. ALL POWER WIRING BY ELECTRICAL CONTRACTOR, CONTROL AND INTERLOCK WIRING BY CONTROLS CONTRACTOR
14. MECHANICAL TRADES TO SUPPLY ALL NECESSARY ACCESS DOORS FOR MECHANICAL EQUIPMENT. TURN OVER TO DIVISION 9 FOR INSTALLATION
15. PIPE HANGERS SHALL BE CLEVIS SPLIT TYPE WITH MILD STEEL RODS. FOR COPPER PIPE USE PLASTIC INSERTS. DO NOT SUPPORT EQUIPMENT OR PIPING FROM UNDER ROOF DECK WITHOUT PERMISSION FROM DCC REPRESENTATIVE. SUPPLY AND INSTALL NECESSARY STEEL TO TRANSFER LOAD TO STRUCTURAL MEMBERS
16. ALL DISSIMILAR METAL (STEEL, COPPER ETC.) SHALL BE SEPARATED USING GASKETS OR DIELECTRIC FITTINGS
17. INSTALL CHROME PLATED ESCUTCHEONS WHERE BRANCH PIPES PASS THROUGH FINISHED SURFACE
18. KEEP ACCURATE RECORD OF "AS-BUILT" DRAWINGS AND SUBMIT THESE BEFORE FINAL CERTIFICATE OF COMPLETION. BURIED SERVICES MUST BE DIMENSIONED.
19. ALL SURFACES MUST BE LEFT CLEAN AND SMOOTH, READY FOR PAINTING BY GENERAL TRADES
20. IDENTIFY ALL EQUIPMENT AND SERVICES IN ACCORDANCE OF THE SPECIFICATIONS
21. IDENTIFY ALL FANS, STARTERS, REMOTE CONTROL AND ALL OTHER EQUIPMENT AS TO SERVICE BY A BLACK LAMOCOID ENGRAVED NAMEPLATE WITH WHITE CORE. FIRMLY AFFIXED WITH SCREWS TO EACH UNIT.
22. ON COMPLETION OF THE WORK, REMOVE FROM THE PREMISES ALL TOOLS, DEBRIS, SURPLUS AND WASTE MATERIALS RESULTING FROM OPERATIONS UNDER THIS SECTION. CLEAN ALL EQUIPMENT AND LEAVE ALL ITEMS IN PERFECT ORDER READY FOR OPERATION
23. AFTER ACCEPTANCE OF THE WORK AND ALL CLOSE OUT DOCUMENTATION PROVIDE TRAINING FOR THE OWNERS DESIGNATED PERSONNEL ON SYSTEM OPERATIONS AND MAINTENANCE REQUIREMENTS.
24. THE CONTRACTOR SHALL, BEFORE FINAL PAYMENT IS MADE, GUARANTEE ALL MATERIALS AND WORKMANSHIP SUPPLIED BY HIM IN THE PERFORMANCE OF THIS CONTRACT FOR A PERIOD OF ONE YEAR FROM DATE OF SUBSTANTIAL AND SHALL, WHEN CALLED UPON, MAKE GOOD WITHOUT FURTHER COST TO THE OWNER SUCH DEFECTS AS MAY APPEAR WITHIN THIS PERIOD

INSULATION

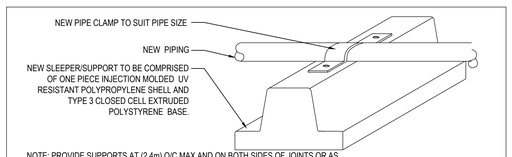
1. PROVIDE INSULATION IN ACCORDANCE OF SPECIFICATIONS - 21 07 19, 23 07 13
2. PROVIDE WHITE PVC JACKET ON ALL EXPOSED PIPING. COORDINATE FINAL PIPE/DUCT DIAMETERS WITH OTHER TRADE TO ALLOW FOR APPROPRIATE SLEEVE SIZES AND UNINTERRUPTED INSULATION
3. MITRE INSULATION AT ALL ELBOWS
4. INTERNAL ACOUSTIC INSULATION SHALL BE PROVIDED AS SHOWN ON THE PLANS AND IN THE SPECIFICATIONS. REFER TO SPECIFICATION 21 07 13 FOR ACOUSTIC INSULATION TYPE.

HEATING, VENTILATION AND AIR CONDITIONING (HVAC)

1. SUPPLY AND INSTALL ALL VENTILATION AND AIR HANDLING EQUIPMENT AS SHOWN ON THE DRAWINGS
2. INCLUDE FOR STARTUP AND COMMISSIONING OF ALL EQUIPMENT
3. ADJUST ALL FAN SPEEDS TO DELIVER SHOWN AIR QUANTITIES. INCLUDE NECESSARY SPARE BELTS AND PULLEYS FOR FIELD ADJUSTMENT
4. PROVIDE AN AIR BALANCING REPORT VERIFYING THAT SUPPLY AIR, RETURN AIR, AND EXHAUST AIR SYSTEMS ARE BALANCED TO PROVIDE DESIGN AIR FLOWS. SUBMIT REPORT FOR REVIEW AND APPROVAL.
5. SUPPLY AND INSTALL DUCTWORK AS INDICATED ON DRAWINGS. DUCTWORK SHALL BE FABRICATED AND INSTALLED IN STRICT ACCORDANCE WITH LATEST ASHRAE AND SMACNA STANDARDS AND SHALL BE MANUFACTURED OF GALVANIZED STEEL UNLESS SPECIFICALLY NOTED OTHERWISE
6. ALL EXPOSED GRILLES TO BE INSTALLED AFTER THE CEILING/STRUCTURE/DUCTWORK IS PAINTED OUT UNLESS OTHERWISE NOTED
7. INSTALL MANUAL BALANCING DAMPERS AT EACH ALL BRANCH DUCT AND EACH TAKEOFF TO THE END DIFFUSER OR GRILLE.
8. ALL MANUAL VOLUME DAMPERS LARGER THAN 300X300mm TO BE OPPOSED BLADE
9. ALL CIRCULAR DUCT TAKEOFFS FROM RECTANGULAR DUCTWORK TO BE COMPLETE WITH VOLUME DAMPER
10. PROVIDE SMALL ARC TURNING VANES IN DUCT ELBOW WHERE CENTRE LINE OF RADIUS IS LESS THAN 1-1/2 TIMES THE TURNING DIMENSIONS OF THE DUCT. ACCEPTABLE MANUFACTURERS: DURODYNE, TUTLE AND BAILEY
11. APPROVED FLEXIBLE DUCTWORK MAY BE USED FOR RUN OUTS TO DIFFUSERS, MAXIMUM LENGTH 1830mm, EXCEPT WHERE DUCTWORK IS INTENDED TO BE EXPOSED
12. VAV BOX SIZES WHERE SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC. COORDINATE ACTUAL SIZE WITH FINAL SHOP DRAWINGS AND PROVIDE ALL REQUIRED TRANSITIONS TO CONNECT TO INLET/OUTLET OF UNIT.
13. PROVIDE 15mm ACCOUSTIC INSULATION FOR EACH DUCT CONNECTED TO A FAN SYSTEM 4M MIN LENGTH OR AS SHOWN IN THE DRAWINGS.
14. PROVIDE FLEXIBLE DUCT CONNECTIONS BETWEEN EACH FAN SYSTEM AND ITS ASSOCIATED DUCTWORK
15. DUCT SIZE MAY BE CHANGED PROVIDING EQUIVALENT AIR FLOW FRICTIONAL LOSS IS MAINTAINED. MAXIMUM WIDTH TO DEPTH DIMENSION SHALL NOT EXCEED 4:1 UNLESS NOTED OTHERWISE.

SEISMEC REQUIREMENTS

1. THIS BUILDING IS LOCATED WITH IN A SEISMIC ZONE. REFER TO STRUCTURAL DRAWINGS FOR CLASSIFICATION INFORMATION.
2. ENGAGE A SEISMIC ENGINEER REGISTERED WITH PEO TO REVIEW THE DESIGN PACKAGE AND PROVIDE A DESIGN FOR SEISMIC RESTRAINTS.
3. PROVIDE ALL SEISMIC RESTRAINTS AS NOTED BY THE SEISMIC ENGINEERING DESIGN AND PROVIDE DCC REPRESENTATIVE WITH A COPY OF THE SEISMIC ENGINEERS LETTER OF CONFORMANCE PRIOR TO SUBSTANTIAL COMPLETION.
4. PROVIDE SEISMIC DESIGN PARAMETERS FOR ALL MECHANICAL SYSTEMS; TO BE SUBMITTED WITH SHOP DRAWINGS.



NOTE: PROVIDE SUPPORTS AT (2.4m) O/C MAX AND ON BOTH SIDES OF JOINTS OR AS REQUIRED TO SUIT CONFIGURATION.
CONTRACTOR TO CARRY FOR ROOFED IN SLEEPERS IN ADDITION TO THIS SUPPORT.
EXACT QUANTITY TO BE DETERMINED BY CONTRACTORS SEISMIC ENGINEER.

ROOF PIPING SUPPORT DETAIL
N.T.S.

GENERAL REMOVALS NOTES

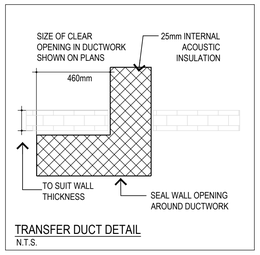
1. DESIGNATED SUBSTANCES MAY BE PRESENT WITHIN THE CONSTRUCTION ZONE. REFER TO OWNERS DESIGNATED SUBSTANCE REPORT IN THE SPECIFICATION 02 81 01 AND COORDINATE REMOVALS WITH GENERAL CONTRACTOR.
2. LOCATIONS AND ROUTING OF ALL EXISTING EQUIPMENT AND SERVICES SHOWN ARE APPROXIMATE BASED ON VISUAL INSPECTION AND INFORMATION AVAILABLE FROM PREVIOUS OWNERS DRAWINGS. THE CONTRACTOR WILL BE REQUIRED TO FIELD VERIFY ALL EQUIPMENT AND SERVICES WITHIN THE RENOVATED AREA ONCE SELECTIVE DEMOLITION OF WALLS AND CEILINGS HAS BEEN COMPLETED.
3. CONTRACTOR SHALL REVIEW ALL EQUIPMENT AND FIXTURES NOTED FOR REMOVAL WITH THE OWNER PRIOR TO CONSTRUCTION START TO IDENTIFY WHICH ITEMS THE OWNER WISHES TO BE TURNED OVER AFTER DISCONNECTION. THE CONTRACTOR WILL REMOVE AND DISPOSE OF ALL REMAINING ITEMS IN ACCORDANCE WITH LOCAL, PROVINCIAL AND FEDERAL REGULATIONS. WHERE THERE ARE DISCREPANCIES BETWEEN REGULATIONS, THE MORE STRINGENT REGULATION SHALL APPLY.
4. REMOVAL OF ALL EQUIPMENT AND SERVICES NOTED WITHIN THESE DRAWINGS MUST BE COORDINATED WITH OTHER TRADES TO ENABLE SAFE REMOVAL AND ASSOCIATED PATCHING AND REPAIR WORK.
5. WHERE REMOVALS ARE NOTED THAT WILL REQUIRE A SYSTEM SHUT DOWN IMPACTING SPACES BEYOND THE CONSTRUCTION ZONE (IE.PIPING MAINS SERVING ADJACENT ROOMS) THE CONTRACTOR WILL NEED TO PREPARE A DETAILED SCHEDULE FOR REVIEW AND APPROVAL BY THE OWNER. THE SUBMITTAL WILL NEED TO INCLUDE AT A MINIMUM; REQUESTED SHUT DOWN WORK PLAN AND TIMES, EMERGENCY CONTACT DETAILS, ALL SERVICES AND SPACES IMPACTED BY THE SHUT DOWN, ANTICIPATED SHUT DOWN DURATION, ANY IMPACTS TO ADJACENT OCCUPANCIES, RISKS AND MITIGATION MEASURES
6. BUILDING SYSTEMS SERVICING THE CONSTRUCTION AREA ARE EXPECTED TO EXIST WITHIN THE CEILING AND/OR WALLS THAT HAVE NOT BEEN IDENTIFIED WITHIN THE DRAWINGS AS THE LOCATIONS ARE CURRENTLY UNKNOWN. WHEN SELECTIVE DEMOLITION OF THE CEILINGS AND WALLS IS COMPLETE THE MECHANICAL CONTRACTOR SHALL IDENTIFY ANY SERVICES NOT CURRENTLY NOTED ON THE DRAWINGS (DOMESTIC PIPING, SANITARY/VENT STACKS, STORM DRAINS, HYDRONIC PIPING, DUCTWORK, CONTROLS CABINETS ETC). PREPARE A RED LINE MARK UP OF THE SERVICES WITHIN THE CONSTRUCTION AREA AND IDENTIFY ANY THAT MAY INTERFERE WITH THE PROPOSED RENOVATION AND ANY PROPOSED REVISIONS/RELOCATION FOR REVIEW WITH THE DCC REPRESENTATIVE. ANY REVISIONS THAT RESULT IN ADDITIONAL WORK WILL NEED TO BE PRICED AND APPROVED PRIOR TO PROCEEDING. ANY SERVICES THAT ARE REQUIRED TO REMAIN WILL NEED TO BE IDENTIFIED, PROTECTED THROUGHOUT CONSTRUCTION AND THE CONTRACTOR WILL ADD THIS INFORMATION TO THE REDLINE AS BUILTS COMPLETE WITH SERVICE TYPE, SIZE AND LOCATION
7. MECHANICAL CONTRACTOR SHALL DECOMMISSION, DRAIN, REMOVE AND DISPOSE OF ALL SANITARY, VENT, DOMESTIC (HOT AND COLD) WATER PIPING ASSOCIATED WITH FIXTURES NOTED FOR REMOVAL. ALL PIPING SHALL BE REMOVED AND CAPPED AT THE MAINS TO AVOID DEAD LEGS. SECTIONS OF PIPING INTENDED FOR REUSE AS PART OF THIS PROJECT CAN BE TEMPORARILY CAPPED WITHIN THE SPACE COMPLETE WITH ISOLATION VALVES FOR FUTURE EXPANSION. ALL CAPPED SECTIONS TO BE NOTED ON THE AS BUILT DRAWINGS.
8. BUILDING HVAC SYSTEMS SHALL NOT BE USED DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING OR VENTILATION. COORDINATE THE SHUT DOWN AND/OR TEMPORARY CAPPING OF ALL EXISTING SYSTEMS WITHIN THE CONSTRUCTION ZONE
9. ALL OPENINGS AND VOIDS LEFT BY THE REMOVAL OF EXISTING EQUIPMENT, PIPING, DUCTS, PIPING ETC MUST BE PROPERLY PATCHED AND REPAIRED TO MATCH ADJACENT CONSTRUCTION ASSEMBLIES AND MAINTAIN FIRE RATINGS WHERE APPLICABLE. COORDINATE ALL PATCHING REQUIRED WITH THE GENERAL CONTRACTOR.
10. ALL REMOVED, UNUSED, UNCONNECTED/REDUNDANT PLUMBING OR MECHANICAL EQUIPMENT OR SERVICES IDENTIFIED WITHIN THE CONSTRUCTION AREA ARE TO BE REMOVED OR CUT BACK AND CAPPED AT THE MAINS.

LEGEND - PIPING SYSTEMS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
XXX(E)	EXISTING PIPING TO REMAIN	R	RELOCATE
XXX(R)	EXISTING PIPING TO BE RELOCATED	X	EXISTING TO BE REMOVED
XXX(X)	EXISTING PIPING TO BE REMOVED	E	EXISTING TO REMAIN
HWS	HOT WATER SUPPLY		BALANCING VALVE
HWR	HOT WATER RETURN		UNION
GAS	NATURAL GAS		CHECK VALVE
T	THERMOSTAT		DRAIN VALVE
	FLOW DIRECTION		AIR VENT
N.C.	NORMALLY CLOSED		MOTORIZED CONTROL VALVE
N.O.	NORMALLY OPEN		LOCK SHIELD
	PIPE DOWN		PIPE UP

PIPE SIZE LEGEND

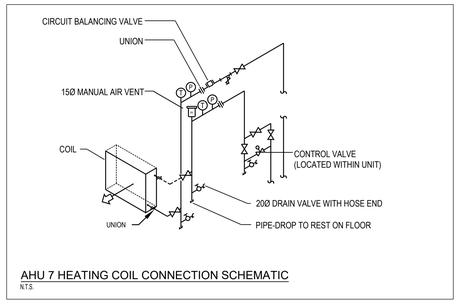
METRIC SIZE	IMPERIAL SIZE
15Ø	1/2"Ø
20Ø	3/4"Ø
25Ø	1"Ø
32Ø	1-1/4"Ø
40Ø	1-1/2"Ø
50Ø	2"Ø
65Ø	2-1/2"Ø
80Ø	3"Ø
100Ø	4"Ø
150Ø	6"Ø



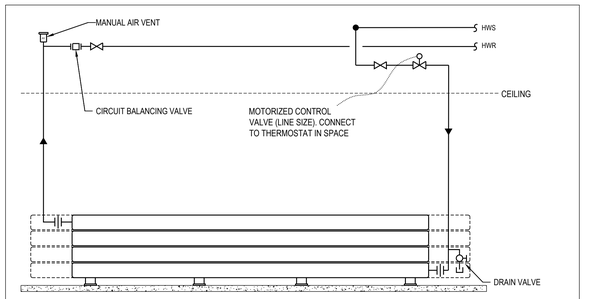
TRANSFER DUCT DETAIL
N.T.S.

LEGEND - HVAC

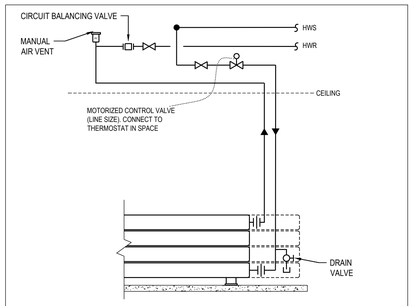
SYMBOL	DESCRIPTION
	INTERNAL ACOUSTIC INSULATION AND LINER
X: TYPE, Y: SIZE (mm), Z: CAPACITY (L/s)	DIFFUSER TAG LEGEND (EXAMPLE)
VB-1 TAG, 95 MIN AIRFLOW (L/s), 190 DESIGN AIRFLOW (L/s)	VOLUME BOX LEGEND (EXAMPLE)
	RETURN AIR DUCT
	SUPPLY OR OUTSIDE AIR DUCT
	EXHAUST AIR DUCT
	TRANSFER DUCT
RA	RETURN AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
OA	OUTSIDE AIR
	RETURN AIR GRILLE OR REGISTER
	SUPPLY DIFFUSER
	EXHAUST FAN INLINE / CABINET / ROOF MOUNT
M	MOTORIZED / BYPASS DAMPER
FD	FIRE DAMPER
VD	VOLUME DAMPER
N.I.C.	NOT IN CONTRACT
A.F.F.	ABOVE FINISHED FLOOR
N.T.S.	NOT TO SCALE



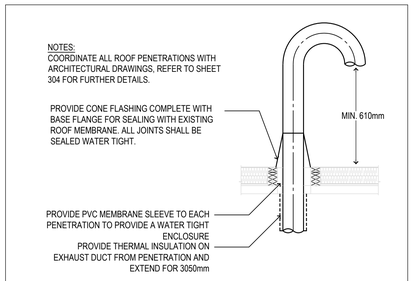
AHU 7 HEATING COIL CONNECTION SCHEMATIC
N.T.S.



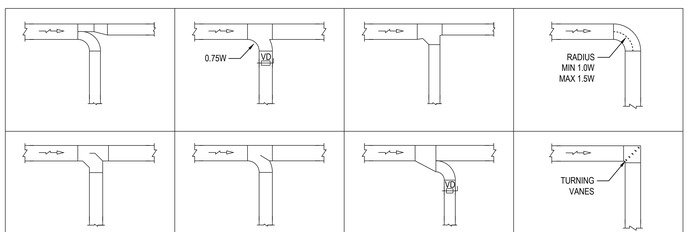
RADIATOR PIPING SCHEMATIC (OPPOSITE ENDS)
N.T.S.



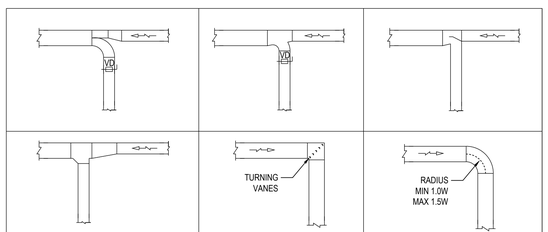
RADIATOR PIPING SCHEMATIC (SAME END)
N.T.S.



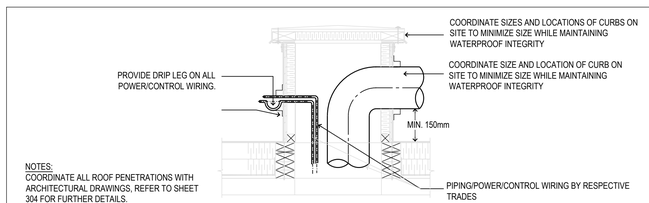
TYPICAL EXHAUST DUCT PENETRATION DETAIL
N.T.S.



STANDARD SUPPLY AIR DUCT FITTINGS
N.T.S.



STANDARD RETURN AIR DUCT FITTINGS
N.T.S.



NOTES:
COORDINATE ALL ROOF PENETRATIONS WITH ARCHITECTURAL DRAWINGS, REFER TO SHEET 304 FOR FURTHER DETAILS.

TYPICAL MECHANICAL ROOF PENETRATION DETAIL
N.T.S.

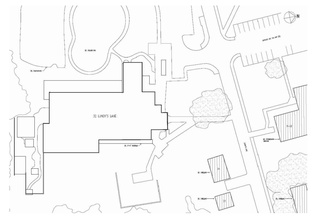
Gouvernement du Canada | Government of Canada

NIVEAU DE SÉCURITÉ | LEVEL OF SECURITY
À ÊTRE RÉVISÉ | TO BE REVIEWED

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LICENSED PROFESSIONAL ENGINEER
100585784
23 Jun 2026
J. L. BIEMANN
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
E	2026/06/23	ISSUED FOR TENDER (R1)	
D	2025/11/21	ISSUED FOR TENDER	
C	2025/08/14	ISSUED FOR FINAL REVIEW	
B	2025/01/31	ISSUED FOR 99% REVIEW	
A	2024/05/15	ISSUED FOR 60% REVIEW	

ÉCHELLE | SCALE

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE: Mécanique | Mechanical
DATE: 2026/06/23

SUJET | SUBJECT
MECHANICAL NOTES AND DETAILS

PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED: LR	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN: LR/LS	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED: LR/JB	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.: N.700114.23.01.01
NO. DP | PF NO.: 500540682
NO. DESSIN | DWG. NO.: L-B35-8900 - 400

Canada

Dernière mise à jour du fichier 2012-04-01

2026/Jun/23, 6:09pm lstubinsky 400 H:\2022 Projects\22560 DCC HVAC\01 A DWGs\5 CADs\03 Mechanical\01 Drawing Sheets Mechanical\401 402 - Mechanical Notes, Legends, and Schedules.dwg

EQUIPMENT SCHEDULE NOTES

1. THE DESIGN IS BASED ON THE PERFORMANCE, CAPACITIES, DIMENSIONS, ELECTRICAL REQUIREMENTS AND PHYSICAL CONFIGURATIONS OF THE FIRST LISTED PRODUCTS.
2. OTHER APPROVED PRODUCTS AND MANUFACTURERS THAT ARE LISTED IN THE SCHEDULES OR SPECIFICATIONS ARE MANUFACTURERS AND/OR PRODUCTS WHICH MEET THE REQUIRED STANDARD OF PERFORMANCE, QUALITY OF MATERIAL AND WORKMANSHIP. HOWEVER, CONFIRMATION THAT PRODUCT IS COMPATIBLE WITH THE DESIGN AS PRESENTED (UNIT STYLE, MOUNTING/CLEARANCE REQUIREMENTS, PERFORMANCE CAPACITIES, AND PIPE SIZING/LAYOUT) IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
3. REFER TO DIVISION 26 FOR SCOPE OF WORK RELATED TO SUPPLY AND INSTALL OF STARTERS, DISCONNECTS, CONTROLS, ETC. FOR MECHANICAL EQUIPMENT.
4. UNLESS A COMPONENT IS SPECIFICALLY NOTED TO BE SUPPLIED BY ANOTHER DIVISION, ALL COMPONENTS AND ACCESSORIES SHALL BE PROVIDED BY MECHANICAL FOR A COMPLETE INSTALLATION.

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	CAPACITY (L/s)	MATERIAL	FINISH	REMARKS
A1	305mmx305mm SQUARE PLAQUE DIFFUSER, 150mmØ NECK SIZE	0 - 70	STEEL	WHITE	LOCATIONS AND AIRFLOWS AS LISTED ON DRAWINGS
A2	610mmx610mm SQUARE PLAQUE DIFFUSER, 150mmØ NECK SIZE	0 - 70	STEEL	WHITE	LOCATIONS AND AIRFLOWS AS LISTED ON DRAWINGS
A3	610mmx610mm SQUARE PLAQUE DIFFUSER, 200mmØ NECK SIZE	0 - 110	STEEL	WHITE	LOCATIONS AND AIRFLOWS AS LISTED ON DRAWINGS
A4	610mmx610mm SQUARE PLAQUE DIFFUSER, 250mmØ NECK SIZE	0 - 170	STEEL	WHITE	LOCATIONS AND AIRFLOWS AS LISTED ON DRAWINGS
A5	610mmx610mm SQUARE PLAQUE DIFFUSER, 305mmØ NECK SIZE	0-250	STEEL	WHITE	LOCATIONS AND AIRFLOWS AS LISTED ON DRAWINGS
B	EGG CRATE	AS LISTED	ALUMINUM	WHITE	SIZE AND CAPACITY AS LISTED ON DRAWINGS
D	DOUBLE DEFLECTION SUPPLY GRILLE	0-110	STEEL	WHITE	SIZE AND CAPACITY AS LISTED ON DRAWINGS. COORDINATE FRAME SELECTION WITH CEILING OR DUCT TYPE FOR EACH SPACE. REFER TO DRAWINGS FOR GRILLE SIZES

NOTES
1. ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, TITUS, KRUEGER, METALAIRE

VAV BOX SCHEDULE

TAG	EQUIPMENT TYPE	DESIGN MAX AIRFLOW (L/s)	INLET SIZE (mm)	OUTLET SIZE (mm)
	SINGLE DUCT TERMINAL UNIT	60	100Ø	305 x 200
VB- 10, 11, 17, 18, 19, 24, 25, 26, 27, 33, 44, 46	SINGLE DUCT TERMINAL UNIT	110	125Ø	305 x 200
VB- 13, 14, 15, 16, 20, 22, 23, 39, 41, 42, 44, 45	SINGLE DUCT TERMINAL UNIT	180	150Ø	305 x 200
VB- 7, 12, 21, 37, 40, 43, 47	SINGLE DUCT TERMINAL UNIT	260	175Ø	305 x 250
VB- 3, 31, 35, 38	SINGLE DUCT TERMINAL UNIT	330	200Ø	305 x 250
VB- 9	SINGLE DUCT TERMINAL UNIT	425	225Ø	355 x 320
VB-4, 5, 8, 36	SINGLE DUCT TERMINAL UNIT	520	250Ø	355 x 320
VB-2, 6, 30, 32, 34	SINGLE DUCT TERMINAL UNIT	755	305Ø OVAL	405 x 380
VB-1, 28, 29	SINGLE DUCT TERMINAL UNIT	990	356Ø OVAL	510 x 445

NOTES
1. REFER TO DWG 409 and 411 FOR QUANTITIES AND LOCATIONS AND AIRFLOWS FOR BALANCING
2. VOLUME BOXES C/W INTERNAL 1/2" FIBERGLASS INSULATION WHICH MEETS NFPA 90A / UL181, 22 GA. GALVANIZED STEEL HOUSING, MECHANICAL SEALED LEAK RESISTANT CONSTRUCTION, MULTI-POINT, CENTER AVERAGING AIRFLOW SENSOR, 1/2" (13mm) GALVANIZED DAMPER SHAFT WITH POSITION INDICATOR.
3. PROVIDE NEMA 1 CONTROLS ENCLOSURE FOR CONTROLLER PROVIDED BY DIV. 25
4. ACCEPTABLE MANUFACTURERS: EH PRICE, NAILOR, METALAIRE

INDOOR AIR HANDLING UNIT SCHEDULE (GYMNASIUM)

	TAG	AHU-7
GENERAL	TYPE	INDOOR, FLOOR MOUNTED
	CABINET CONSTRUCTION	TS-2
	CONFIGURATION	END RETURN INLET, TOP OUTSIDE AIR INLET, TOP SUPPLY DISCHARGE
	LENGTH x WIDTH x HEIGHT (mm)	4388 x 1575 x 1829
	MAX WEIGHT (kg)	1235.5
	AIRFLOW (L/S)	4485
	OUTSIDE AIR (L/S)	1085
MIXING BOX	DIMENSIONS	762x1118x127 mm
	BLADE MATERIAL / BLADE POSITION	ALUMINUM / PARALLEL
	FACE VELOCITY	489 LPS
SUPPLY FAN DATA	MOTOR TYPE / FRAME SIZE	ODP 460V / 215T
	FAN SIZE / CLASS / ARRANGEMENT	27 / 2 / 4
	E.S.P. / T.S.P. (PA)	250 / 830
	MOTOR HP (# OF MOTORS)	10 (1)
	MOTOR BHP	6.92
	FAN EFFICIENCY	75.3%
	OPERATING RPM	1252
	FLA (A)	14
	FAN AND MOTOR TO BE MOUNTED ON RUBBER SHEAR ISOLATION BASE AND WIRED TO EXTERNAL VFD. VFD TO BE PROVIDED BY DIV. 23 AND C/W NEMA 1 ENCLOSURE. ACCESS DOOR TO BE C/W WITH DOOR KILL SWITCH.	
HOT WATER HEATING COIL (100% WATER)	EWT(°C) / LWT(°C)	82.2 / 65.6
	FLOW / FLUID PRESSURE DROP	1.96 LPS / 38.44 KPa
	EAT-DB (°C) / LAT-DB (°C)	9.60 / 33.78
	TOTAL CAP (KW)	131.8
	ROWS / FPI	1 / 14
	AIR VELOCITY / AIR PRESSURE DROP	250 LPS / 39.8 Pa
	COIL TO HAVE TUBE MATERIAL OF COPPER 0.020, FIN HEIGHT OF 1370 mm AND FIN LENGTH OF 1220mm, FIN MATERIAL OF ALUMINUM, CONNECTION SIZE OF 40mm, TUBE OD OF 5/8 (1.5x1.299) IN.	
COOLING COIL (DX COOLING / HEAT PUMP)	REFRIGERANT TYPE	R454B
	CIRCUITS / ROWS / FPI	9 / 3 / 12
	EAT-DB/WB (°C)	26.27 / 18.39
	LAT-DB/WB (°C)	13.67 / 12.83
	TOTAL / SENSIBLE CAPACITY (KW)	84.9 / 68.3
	AIR PRESSURE DROP	120 Pa
	FLANGED CASING TYPE, CASING MATERIAL 16 GA. 3040 SS, 5/8 (1.5 X 1.299) 3 ROW COIL WITH WALL 5/8 (1.5 X 1.299) COPPER 0.020 TUBES AND 12 FPI ALUMINUM 0.0075 FINS, FIN HEIGHT OF 1370 mm AND FIN LENGTH OF 1220mm, ACCESS DOOR, TX VALVE 16-20 TON, 16 GA. 304 SS DRAIN PAN. FACE VELOCITY OF 250 LPS.	
HOT GAS REHEAT COIL	REFRIGERANT TYPE	R454B
	REFRIGERANT CHARGE	8.30 LB
	CIRCUIT RATIO / ROWS / FPI	0.44 / 2 / 12
	FIN HEIGHT x LENGTH	1365x1220mm
	EAT/LAT-DB(°C)	12.6 / 23.9
	FACE VELOCITY / AIR PRESSURE DROP	250 LPS / 54.7 Pa
	COIL TO HAVE A TUBE MATERIAL OF COPPER - 0.017 PLAIN AND A TUBE DIAMETER OF 1/2 1.25x1.0825. FIN MATERIAL TO BE ALUMINUM 0.006 AND FIN STYLE TO BE CORRUGATED, WITH SWEAT COPPER CONNECTIONS. CASING SHALL BE 16 GA. GALVANIZED STEEL.	
FILTER DATA (PANEL FILTERS)	PRE FILTER (SUPPLY)	MEDIA: SYNTHETIC FIBER TYPE/EFFICIENCY: 25-30% (MERV 8) QUANTITY / SIZE (WxHxD): 4 / 510x610x50, 2 / 405x610x50
	FINAL FILTER (SUPPLY)	MEDIA: SYNTHETIC FIBER TYPE/EFFICIENCY: 80-85% (MERV 13) QUANTITY / SIZE (WxHxD): 4 / 510x610x50, 2 / 405x610x50
	FILTERS TO BE REMOVABLE FROM THE SIDE AND HAVE AN EXTRUDED ALUMINUM TRACK. FILTER GAUGE TO HAVE A 0-5V OUTPUT WITH A RANGE OF 250Pa - 1250Pa. FILTER FACE VELOCITY OF 240 LPS.	
ELECTRICAL	VOLTAGE / PHASE / FREQUENCY	208 / 3 / 60
	UNIT FLA	25
OPTIONS/ ACCESSORIES	PROVIDE BACNET INTERFACE FOR INTEGRATION WITH BUILDING AUTOMATION SYSTEM. PROVIDE NON-FUSED DISCONNECT SWITCH	
REMARKS	INDOOR UNIT CONSTRUCTED OF 2" THICK DOUBLE WALL PANELS WITH 2" - INJECTED FOAM INSULATION, OUTER CASING MATERIAL SHALL BE GALVANIZED - 22 GA, INNER CASING MATERIAL SHALL BE GALVANIZED - 22 GA, CASING FINISH TO BE UNPAINTED. UNIT FRAME SHALL BE EXTRUDED ALUMINUM WITH TRUE THERMAL BREAK. UNIT FLOOR CONSTRUCTED OF GALVANIZED - 22 GA AND GALVANIZED - 22 GA SUB FLOOR LINER, AND IS INSULATED WITH 2" THICK SPRAYED FOAM INSULATION. UNIT BASE CONSTRUCTED OF 4" FORMED "C" CHANNEL UNIT SHALL BE MODULAR AND CAPABLE OF BEING MOVED THROUGH 1980X915MM DOOR AND REASSEMBLED WITHIN MECHANICAL ROOM UNIT SHALL BE COMPLETE WITH HINGED ACCESS DOORS AND SHALL PROVIDE ACCESS TO ALL INTERNAL COMPONENTS THROUGH ONE SIDE, CLOSEST TO DOOR OF MECHANICAL ROOM. REFER TO CONTROLS SCHEMATIC FOR VENDOR REQUIRED SENSORS AND DIV 25 REQUIREMENTS.	

ROOFTOP AIR HANDLING UNIT SCHEDULE

	TAG	AHU-1	AHU-2	AHU-3	AHU-4	AHU-5	AHU-6
GENERAL	TYPE	PACKAGED ROOFTOP UNIT	PACKAGED ROOFTOP UNIT	PACKAGED ROOFTOP UNIT	PACKAGED ROOFTOP UNIT	PACKAGED ROOFTOP UNIT	PACKAGED ROOFTOP UNIT
	DIMENSIONS (LxWxH) mm	2085x1118x1118	2085x1118x1118	2797x1626x1504	2797x1626x1504	2083x1118x1283	2085x1118x1118
	WEIGHT (kg)	566	611	1586	1447	475	618
	ORIENTATION	BOTTOM SUPPLY, BOTTOM RETURN	BOTTOM SUPPLY, BOTTOM RETURN	BOTTOM SUPPLY, BOTTOM RETURN	BOTTOM SUPPLY, BOTTOM RETURN	BOTTOM SUPPLY, BOTTOM RETURN	BOTTOM SUPPLY, BOTTOM RETURN
	FILTER	2" PLEATED MERV 8 + 4" PLEATED MERV 13	2" PLEATED MERV 8 + 4" PLEATED MERV 13	2" PLEATED MERV 8 + 4" PLEATED MERV 13	2" PLEATED MERV 8 + 4" PLEATED MERV 13	2" PLEATED MERV 8 + 4" PLEATED MERV 13	2" PLEATED MERV 8 + 4" PLEATED MERV 13
FANS	AIRFLOW (L/S) TOTAL AIR / OUTSIDE AIR	944 / 189	1416 / 189	5191 / 1038	3539 / 755	566 / 71	1463 / 236
	EXTERNAL SP / TOTAL SP (Pa)	286 / 498	286 / 622	498 / 1347	349 / 854	286 / 545	286 / 637
	FAN BHP/ RATED HP	1.06 / 2.0	2.15 / 3.0	15.97 / 20.0	6.52 / 10.0	0.81 / 2	2.29 / 3
	FAN TYPE	DIRECT DRIVE WITH VFD	DIRECT DRIVE WITH VFD	DIRECT DRIVE WITH VFD	DIRECT DRIVE WITH VFD	DIRECT DRIVE WITH VFD	DIRECT DRIVE WITH VFD
	RPM / EFFICIENCY	1589 / 59.5%	2059 / 55.0%	1698 / 59.2%	1552 / 62.2%	1678 / 51.1%	2110 / 54.6%
	MOTOR SPECIFICATIONS	NUMBER OF MOTORS: 1	NUMBER OF MOTORS: 1	NUMBER OF MOTORS: 1	NUMBER OF MOTORS: 1	NUMBER OF MOTORS: 1	NUMBER OF MOTORS: 1
		FRAME SIZE: 145T	FRAME SIZE: 182T	FRAME SIZE: 254T	FRAME SIZE: 215T	FRAME SIZE: 56	FRAME SIZE: 182T
		NOMINAL RPM: 1760	NOMINAL RPM: 1760	NOMINAL RPM: 1760	NOMINAL RPM: 1760	NOMINAL RPM: 1760	NOMINAL RPM: 1760
		ENCLOSURE TYPE: ODP	ENCLOSURE TYPE: ODP	ENCLOSURE TYPE: ODP	ENCLOSURE TYPE: ODP	ENCLOSURE TYPE: ODP	ENCLOSURE TYPE: ODP
	WHEEL SPECIFICATIONS	MAX RPM: 2400	MAX RPM: 2200	MAX RPM: 1800	MAX RPM: 1800	MAX RPM: 2200	MAX RPM: 2200
		DIAMETER / QUANTITY: 431.8mm / 1	DIAMETER / QUANTITY: 469.9mm / 1	DIAMETER / QUANTITY: 696mm / 1	DIAMETER / QUANTITY: 696mm / 1	DIAMETER / QUANTITY: 469.9mm / 1	DIAMETER / QUANTITY: 469.9mm / 1
		INTERTIA: 3WR^2	INTERTIA: 3WR^2	INTERTIA: 16WR^2	INTERTIA: 16WR^2	INTERTIA: 3WR^2	INTERTIA: 3WR^2
COOLING	TYPE	DX COOLING WITH VARIABLE CAPACITY SCROLL COMPRESSOR	DX COOLING WITH VARIABLE CAPACITY SCROLL COMPRESSOR	DX COOLING WITH VARIABLE CAPACITY SCROLL COMPRESSOR	DX COOLING WITH VARIABLE CAPACITY SCROLL COMPRESSOR	DX COOLING WITH VARIABLE CAPACITY SCROLL COMPRESSOR	DX COOLING WITH VARIABLE CAPACITY SCROLL COMPRESSOR
	REFRIGERANT	R-454B	R-454B	R-454B	R-454B	R-454B	R-454B
	COOLING TOTAL/SENSIBLE (kW) [MBH]	18.93 [64.6] / 13.66 [46.6]	27.87 / 20.98 [95.1 / 71.6]	104.4 / 78.66 [356.1 / 268.4]	70.02 / 53.43 [238.9 / 182.3]	11.69 / 8.82 [39.9 / 30.1]	28.2 / 21.19 [96.2 / 72.3]
	UNIT LAT (DB/WB)°C	13.3 / 11.8	13.1 / 11.8	14.1 / 12.7	13.4 / 12.6	12.5 / 11.4	13.6 / 12.2
	COOLING STAGES	1 VARIABLE CAPACITY COMPRESSOR	1 VARIABLE CAPACITY COMPRESSOR	1 VARIABLE CAPACITY COMPRESSOR + TWO-STEP COMPRESSOR	1 VARIABLE CAPACITY COMPRESSOR + TWO-STEP COMPRESSOR	MODULATING	1 VARIABLE CAPACITY COMPRESSOR
	CONDENSER STYLE	MICROCHANNEL AIR-COOLED CONDENSER	MICROCHANNEL AIR-COOLED CONDENSER	MICROCHANNEL AIR-COOLED CONDENSER	MICROCHANNEL AIR-COOLED CONDENSER	MICROCHANNEL AIR-COOLED CONDENSER	MICROCHANNEL AIR-COOLED CONDENSER
	EVAPORATOR FACE VELOCITY (m/s)	1.19	1.79	2.8100	1.9200	1.1600	1.8500
HEATING	HEATING TYPE	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS	NATURAL GAS
	HEAT INPUT / OUTPUT (kW) [MBH]	26.38 / 21.37 [90 / 72.9]	43.96 / 35.61 [150 / 121.5]	158.27 / 128.18 [540 / 437.4]	118.7 / 96.16 [405 / 328.1]	17.58 / 14.24 [60 / 48.6]	43.96 / 35.61 [150 / 121.5]
	HEATING TURNDOWN	10:1	8:1	18:1	13:1	10:1	8:1
	EAT / LAT DB (°C)	14.4 / 33.1	15.2 / 35.9	12.2 / 32.6	11.6 / 34.1	15.6 /36.3	13.9 / 34.0
	HEAT EXCHANGER	STAINLESS STEEL HEAT EXCHANGER AND GAS PIPING TO THE VALVE	STAINLESS STEEL HEAT EXCHANGER AND GAS PIPING TO THE VALVE	STAINLESS STEEL HEAT EXCHANGER AND GAS PIPING TO THE VALVE	STAINLESS STEEL HEAT EXCHANGER AND GAS PIPING TO THE VALVE	STAINLESS STEEL HEAT EXCHANGER AND GAS PIPING TO THE VALVE	STAINLESS STEEL HEAT EXCHANGER AND GAS PIPING TO THE VALVE
ELECTICAL	V/Ph/Hz	575/3/60	575/3/60	575/3/60	575/3/60	575/3/60	575/3/60
	MCA/MOCP	15 / 20	23 / 30	81 / 100	45 / 50	13 / 15	24 / 30
RATINGS	A-WEIGHTED DISCHARGE / RETURN CABINET SOUND (dBA)	80 / 71	87 / 78	101 / 92	98 / 85	79 / 72	87 / 79
	AHRI EER	12.64	12.25	10.5800	12.05	11.65	12.25
	AHRI IEER	14.8	14.8	13.2000	15.97	13.4	14.8

GENERAL NOTES
- REFER TO CONTROLS SCHEMATIC ON DRAWING 414 FOR REQUIRED CONTROLS POINTS. UNIT TO BE BACNET IP COMPATIBLE AND COMPLETE WITH TERMINAL STRIP FOR INTEGRATION WITH BAS TO ACHIEVE THE SEQUENCE OF OPERATION.
- ALL SAFETY MONITORING POINTS TO BE INCLUDED (HIGH AND LOW-PRESSURE SWITCHES, FREEZESTATS, GAS VALVE, TEMPERATURE LIMIT SWITCH ON GAS HEATING. REFRIGERANT LEAK AND SAFETY CONTROLS, THE UNIT SHALL ALARM ON IGNITION FAILURES, SAFETY LOCKOUTS AND REPEATED LIMIT SWITCH TRIPS).
- CONTRACTOR SHALL VERIFY EXACT DIMENSIONS OF EXISTING ROOF CURBS AND PROVIDE REPLACEMENT CURBS AND/OR CURB ADAPTERS AS REQUIRED BASED ON SELECTED UNIT.
- ALL UNITS SHALL BE COMPLETE SUPPLY FANS WITH FACTORY MOUNTED VFDs FOR SPEED CONTROL.
- ALL UNITS SHALL BE COMPLETE WITH POWERED EXHAUST.
- ALL UNITS SHALL BE COMPLETE WITH HOT GAS REHEAT.
- ALL UNITS SHALL BE COMPLETE WITH FULLY MODULATING ECONOMIZER CAPABLE OF 100% OA, WITH ENTHALPY LIMIT.
- UNITS TO BE SINGLE-POINT POWER CONNECTION. ALL UNITS TO BE PROVIDED COMPLETE WITH A CONVENIENCE RECEPTACLE WITH IN-USE WEATHER PROOF COVER ON EXTERIOR OF ENCLOSURE ON SEPARATE 20A DEDICATED CIRCUIT FOR CONNECTION BY DIVISION 26.
- AHUS 1, 2, 3 & 6 SHALL BE PROVIDED COMPLETE WITH A NON-FUSED DISCONNECT (SIZED PER UNIT) NEMA 3R SUPPLIED BY DIV. 23. AHU'S 4 & 5 WILL BE PROVIDED WITH A POWER BLOCK AND DIV 26 WILL PROVIDE A FUSED DISCONNECT.
- ALL UNITS SHALL BE COMPLETE WITH VIBRATION ISOLATION RAILS FOR MOUNTING ON ROOF.
- ALL ROOFTOP UNITS SHALL BE PROVIDED WITH FACTORY SUPPLIED OR FIELD INSTALLED SEISMIC RESTRAINT ATTACHMENT POINTS TO ACCEPT SEISMIC RESTRAINTS DESIGNED IN ACCORDANCE WITH SECTION 23 05 48
- PROVIDE COMPLETE REFRIGERATION SAFETY CALCULATIONS FOR EACH UNIT DEMONSTRATING COMPLIANCE WITH ASHRAE 15,34 CSA B52 AND UL/CSA 60335-2-10
- REFER TO SPECIFICATION 23 74 00 FOR ADDITIONAL INFORMATION

ACCEPTABLE MANUFACTURERS: AAON, YORK, CARRIER, DAIKIN

CONDENSING UNITS

TAG	CU-1
SERVICE	AHU-7
LOCATION	ROOF MOUNTED ABOVE MECHANICAL ROOM
COOLING CAPACITY TOTAL / SENSIBLE (kW)	84.9 / 68.3
REHEAT CAPACITY (kW)	51.11
REFRIGERANT	R454B
V/Ph/Hz	575/3/60
MCA	45
MOCP	50
FLA	36
SUCTION (mm)	35Ø
LIQUID (mm)	16Ø
DIMENSIONS (HxWxD)	2311x1600x1721
WEIGHT (kg)	680
EER	10.6
IEER	13.5

NOTES
1. CONDENSING UNIT TO BE MOUNTED ON VIBRATION ISOLATION RAILS ON ROOF.
2. FUSED DISCONNECT TO BE PROVIDED BY DIV 26
3. HEAT PUMP OPTION WITH MODULATING HOT GAS REHEAT
4. REFER TO SPECIFICATION 23 65 10 FOR FURTHER DETAILS REGARDING THE UNIT.

EXHAUST FAN SCHEDULE

TAG	LOCATION	TYPE	AIR FLOW L/S	PRESSURE PA	MAX. FAN RPM	V/Ph/Hz	MOTOR HP	WEIGHT (KG)	OPTIONS
EF-1	206 MECHANICAL	CENTRIFUGAL SQUARE INLINE DIRECT DRIVE FAN	660	150	1315	115/1/60	3/4	55	FAN MOUNTED SPEED CONTROL, DISCONNECT NEMA 1, FLANGED INLET, FLANGED OUTLET, FLEXIBLE INLET CONNECTOR, FLEXIBLE OUTLET CONNECTOR.
EF-2	115 WASHROOM	BATHROOM EXHAUST FAN	40	37	822	115/1/60	-	-	OCCUPANCY SENSOR CONTROL AND INTEGRAL BACKDRAFT DAMPER.
EF-3	ROOF	CENTRIFUGAL UPBLAST ROOF MOUNTED DIRECT DRIVE FAN	120	125	1600	115/1/60	1/8	26	FAN MOUNTED SPEED CONTROL, DISCONNECT NEMA 3, MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN.
EF-4	ROOF	CENTRIFUGAL UPBLAST ROOF MOUNTED DIRECT DRIVE FAN	160	125	1750	115/1/60	1/6	25	FAN MOUNTED SPEED CONTROL, DISCONNECT NEMA 3, MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, INSULATED ROOF CURB.
EF-5	036 - WASHROOM	CENTRIFUGAL SQUARE INLINE DIRECT DRIVE FAN	170	125	1660	115/1/60	1/6	36.5	FAN MOUNTED SPEED CONTROL, DISCONNECT NEMA 1, MOTORIZED BACKDRAFT DAMPER, FLEXIBLE INLET CONNECTOR, FLEXIBLE OUTLET CONNECTOR.
RG-1	217 KITCHEN	30" UNDER CABINET RANGE HOOD W/ VERTICAL DUCT CONNECTION	200	100		115/1/60	1.9A		STAINLESS STEEL, REPLACEABLE GREASE FILTERS, 3 LEVEL LED LIGHT, 3 SPEED INFRARED CONTROL, MOUNTING BRACKETS AND DUCT ADAPTOR

NOTES
1. REFER TO MANUFACTURER'S LITERATURE FOR INSTALLATION DETAILS AND RECOMMENDED CLEARANCES. DISCONNECT SUPPLIED BY DIV. 23 AND INSTALLED BY DIV. 26
2. PROVIDE CONTROLLER FOR INTEGRATION WITH BAS.
3. ALL FANS TO BE COMPLETE WITH DISCONNECTS PROVIDED BY THIS DIVISION.
4. ALL MOTORS SHALL BE PREMIUM EFFICIENCY, CSA AND UL/cUL APPROVED WITH THERMAL OVERLOADS.
5. ACCEPTABLE MANUFACTURERS: COOK, GREENHECK, JENCO, TWIN CITY

CONTROL VALVES

TAG	DESCRIPTION	FLUID	VALVE TYPE	ACTUATOR TYPE	PIPE SIZE	VALVE BODY SIZE	FLOW (LPM)	VALVE CV	PRESSURE DROP (KPA)	CLOSE OFF PRESSURE (KPA)	FLOW CHARACTERISTICS	POWER
CV-1	HEATING VALVE 15MM	WATER	CHARACTERIZED CONTROL VALVE	SPRING RETURN ACTUATOR	15mm	15mm	0 - 6	0	0-0.4	1380	EQUAL PERCENTAGE	24VAC/DC
CV-2	HEATING VALVE 20MM	WATER	CHARACTERIZED CONTROL VALVE	SPRING RETURN ACTUATOR	20mm	20mm	0 - 13	10	0-0.8	1380	EQUAL PERCENTAGE	24VAC/DC
CV-3	HEATING VALVE 25MM	WATER	CHARACTERIZED CONTROL VALVE	SPRING RETURN ACTUATOR	25mm	25mm	13 - 23	10	0.9-2.1	1380	EQUAL PERCENTAGE	24VAC/DC
CV-4	AHU-7 HEATING COIL TWO-WAY MODULATING VALVE	WATER	TWO-WAY CHARACTERIZED CONTROL VALVE	NON-SPRING RETURN ACTUATOR	50mm	40mm	1.96	37	4.83	1380	EQUAL PERCENTAGE	24VAC/DC

NOTES
1. REFER TO FLOOR PLANS FOR LOCATIONS OF CONTROL VALVES, AND NUMBER OF CONTROL VALVES REQUIRED
2. PROVIDE STAINLESS STEEL BALL AND STEM FOR ALL CONTROL VALVES
3. VALVE BODY TO BE NICKEL-PLATED BRASS, WITH EPDM (LUBRICATED) STEM SEAL, PTFE SEAT, AND EPDM O-RING
4. ACTUATOR SHALL BE SIZED FOR FULL CLOSE-OFF TORQUE, PROVIDE POSITION FEEDBACK, AND BE FULLY COMPATIBLE WITH BAS CONTROL.
5. DIV. 25 TO PROVIDE VALVES AND TURN OVER TO MECHANICAL TRADE FOR INSTALLATION.

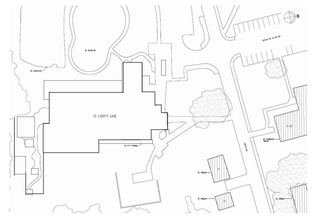
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NIVEAU DE SÉCURITÉ | LEVEL OF SECURITY
À ÊTRE RÉVISÉ | TO BE REVIEWED

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NO.	DATE	REVISION	APPR.
E	2026/06/23	ISSUED FOR TENDER (R1)	
D	2025/11/21	ISSUED FOR TENDER	
C	2025/08/14	ISSUED FOR FINAL REVIEW	
B	2025/01/31	ISSUED FOR 99% REVIEW	
A	2024/05/15	ISSUED FOR 60% REVIEW	

ÉCHELLE | SCALE

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE	DATE
Mécanique | Mechanical	2026/06/23

SUJET | SUBJECT
HVAC SCHEDULES

PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED LR	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN LR/LS	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED LR/JB	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.
N.700114.23.01.01

NO. DP | PF NO.
500540682

NO. DESSIN | DWG. NO.
L-B35-8900 - 401

Canada

Dernière mise à jour du fichier 2012-04-01
2026/Jun/23, 6:11pm lstubinsky 401 H:\2022 Projects\22560 DCC HVAC\01 A DWGs\5 CAD\03 Mechanical\01 Drawing Sheets Mechanical\401 402 - Mechanical Notes, Legends, and Schedules.dwg

GENERAL SPRINKLER NOTES

1. THIS IS A PERFORMANCE SPECIFICATION ONLY. ENGINEERS DRAWINGS PROVIDE GENERAL INFORMATION TO COMMUNICATE EXTENT OF RENOVATION WORK AND THE ANTICIPATED IMPACT TO THE EXISTING WET PIPE FIRE SUPPRESSION SYSTEM.
2. GENERAL SCOPE OF WORK;
   - THE FACILITY IS BEING MODIFIED IN PHASES TO ACCOMMODATE THE CONSTRUCTION OF THE HVAC UPGRADES AS SHOWN THROUGHOUT THE DESIGN PACKAGE.
   - THE PHASING OF THE WORK WILL BE DEFINED BY THE CONTRACTOR, PHASING REQUIREMENTS CAN BE FOUND ON DWG 300
   - REMOVE ALL SPRINKLER HEADS WITHIN THE PHASED WORK AREAS WHERE CEILINGS ARE NOTE FOR REMOVAL AND REPLACEMENT
   - COORDINATE RELOCATION OF BRANCH PIPING AS REQUIRED TO ENABLE DUCTWORK MODIFICATIONS AND STRUCTURAL REINFORCING
   - PROVIDE NEW SPRINKLER HEADS WITHIN ALL IMPACTED CEILINGS, SPACED AS REQUIRED TO PROVIDE COVERAGE PER NFPA 13
   - SPRINKLER HEADS TO MATCH EXISTING TYPES / STYLES USED WITHIN THE CONSTRUCTION AREA PER CEILING TYPE.
   - ALL EXISTING CONNECTIONS TO SPRINKLER HEADS ARE RIGID PIPING. THIS SHALL BE MAINTAINED FOR ALL REINSTATEMENT AND RELOCATIONS. NO FLEX HOSES SHALL BE PROVIDED UNLESS FULL HYDRAULIC CALCULATIONS ARE PROVIDED CONFIRMING NO DECREASE IN THE SYSTEM PERFORMANCE.
   - COORDINATE REVISED SPRINKLER PIPING ROUTING AND FINAL HEAD LOCATIONS WITH GENERAL CONTRACTOR AND OTHER TRADES PRIOR TO INSTALLATION.
3. AS BUILT ENGINEERED SPRINKLER DESIGN DRAWINGS/SHOP DRAWINGS ARE NOT AVAILABLE FOR THE EXISTING SYSTEM. SPRINKLER CONTRACTOR SHALL FIELD VERIFY SERVICE, ZONES, ROUTING AND SIZING OF PIPING, QUANTITY AND LAYOUTS OF SPRINKLER HEADS. SYSTEM PRESSURE AND FLOW, EQUIPMENT LOCATIONS ETC. PRIOR TO SUBMISSION OF SHOP DRAWINGS.
4. DESIGN AND INSTALL THE REQUIRED MODIFICATIONS TO THE WET PIPE FIRE SUPPRESSION SPRINKLER SYSTEMS IN ACCORDANCE WITH REQUIRED AND ADVISORY PROVISIONS OF NFPA 13, BY HYDRAULIC CALCULATIONS FOR UNIFORM DISTRIBUTION OF WATER OVER DESIGN AREA. OCCUPANCY HAZARD SHALL BE AS REQUIRED BY NFPA 13.
5. PREPARE STAMPED SPRINKLER SHOP DRAWINGS BY PHASE INDICATING THE CURRENT AND PROPOSED MODIFICATIONS FOR SUBMISSION TO DCC REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION.
6. ALL SYSTEM MODIFICATIONS SHALL BE COMPLETE WITH;
   - ALL NECESSARY PIPING, HANGERS, HEADS, SUPERVISED VALVES, ALARM VALVES, FLOW SWITCHES WITH RETARDERS, CHECK VALVES, ISOLATION VALVES, DRIPS, DRAINS, TEST CONNECTIONS, SPARE SPRINKLERS AND CABINETS, ETC. ALL IN STRICT ACCORDANCE WITH STANDARDS AS STIPULATED IN THE NATIONAL FIRE PREVENTION ASSOCIATION NFPA 13 AS REVISED TO DATE AND/OR AS APPROVED BY THE LOCAL FIRE DEPARTMENT BUILDING DEPARTMENT
   - ALL SHUTOFF VALVES AND ISOLATING VALVES SHALL BE SUPPLIED WITH ULC LISTED MONITOR SWITCHES FOR ELECTRICAL SUPERVISION OF VALVE.
   - PRESSURE SWITCHES FOR ELECTRICAL SUPERVISION OF WATER SUPPLY PRESSURES.
   - ALL WIRING NECESSARY FOR SPRINKLER ALARMS AND ELECTRICAL SUPERVISION SHALL BE COMPLETED BY DIVISION 26.
   - HANGERS TO BE HUNG FROM STRUCTURE. UNDER NO CIRCUMSTANCES SHALL SPRINKLER PIPING HANG FROM DUCTWORK. THIS CONTRACTOR IS TO PROVIDE SECONDARY STEEL SUPPORTS WHERE PIPING UNDER DUCTS CANNOT BE SUPPORTED DIRECTLY FROM STRUCTURE.
14. CONTRACTOR TO PROVIDE A PATTERN OF PENDANT SPRINKLERS THAT SHALL BE IN THE CENTER OF THE TILES, MAINTAINED STRAIGHT AND TRUE IN BOTH DIRECTIONS, AND SHALL BE COORDINATED WITH LIGHTING AND DIFFUSERS IN ORDER TO MAKE FOR AN ARCHITECTURALLY ACCEPTABLE PATTERN.
15. SPRINKLER CONTRACTOR TO COORDINATE RIGID PIPED SPRINKLER CONNECTIONS TO DRAIN WITH GENERAL CONTRACTOR AND PLUMBING CONTRACTOR PRIOR TO PLUMBING ROUGH-INS BEING CONCEALED. USE OF FLOOR DRAINS OR JANITOR SINKS AS DRAINAGE POINTS WILL NOT BE PERMITTED.
16. LOCATE ALL NEW SPRINKLER PIPING TIGHT TO UNDERSIDE OF STRUCTURE OR AS REQUIRED TO MINIMIZE INTERFERANCES.
17. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL REQUIRED SHUT DOWNS AND/OR BYPASS OF FIRE PROTECTION SYSTEM WHICH MAY BE AFFECTED BY THIS PROJECT.
18. WHERE DRAINING OF ANY PORTION OF THE FIRE PROTECTION SYSTEM IS REQUIRED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR DRAINING, REFILLING, PRESSURE TESTING AND RETURNING THE SYSTEM TO NORMAL OPERATION AT THE END OF EACH SHIFT.
19. WHERE THE CONSTRUCTION ACTIVITIES IMPACT THE FIRE PROTECTION SYSTEM BEYOND THE CONSTRUCTION AREA THE CONTRACTOR WILL BE RESPONSIBLE TO COORDINATE WITH THE AUTHORITY HAVING JURISDICTION AND PROVIDE THE NECESSARY SAFETY MEASURES (IE. FIRE WATCH) UNTIL THE SYSTEM IS RETURNED TO OPERATION.
20. TESTING SHALL BE WITNESSED BY THE AUTHORITY HAVING JURISDICTION. NOTIFY THE DCC REPRESENTATIVE 48 HRS PRIOR TO TESTING. PROVIDE FINAL TESTING CERTIFICATES PER PHASE AND WITH CLOSE OUT DOCUMENTS.

SPRINKLER COORDINATION NOTES

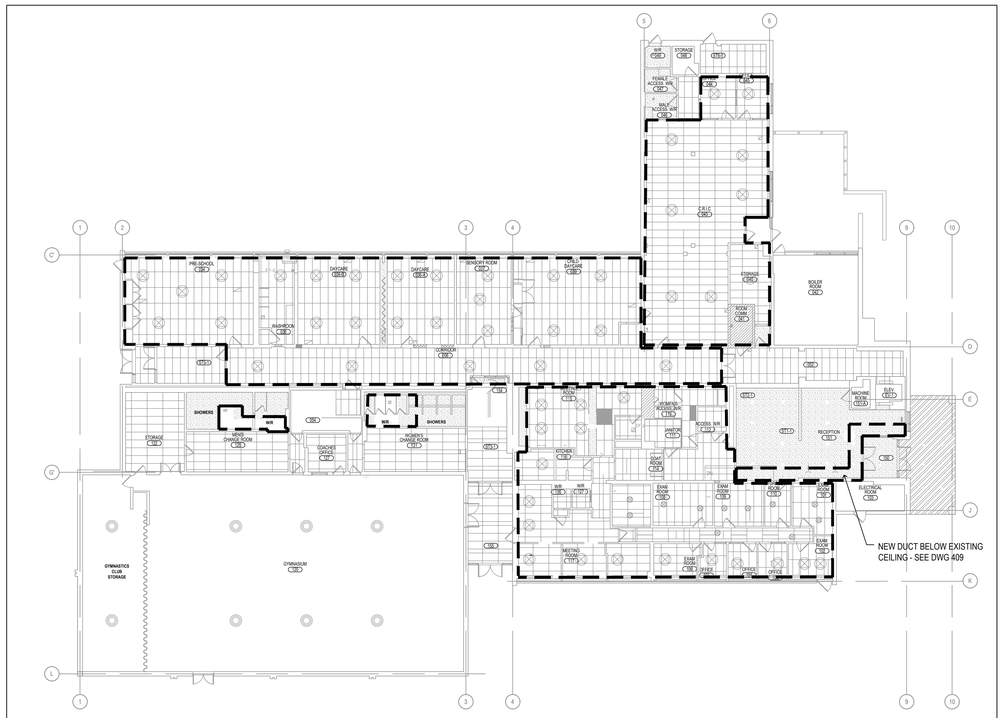
21. COORDINATION WITH THE DUCTWORK, STRUCTURAL, LIGHTING AND EQUIPMENT LAYOUTS WILL BE REQUIRED IN ALL AREAS DUE TO LIMITED CEILING SPACE. PROVIDE DETAILED COORDINATION / INTERFERENCE DRAWINGS WITH ELECTRICAL AND MECHANICAL HVAC, HYDRONIC PIPING AND PLUMBING CONTRACTORS PRIOR TO INSTALLATION.
22. BASED ON PRELIMINARY CEILING INVESTIGATIONS IT IS ANTICIPATED THAT DUCTS LESS THAN 350MM IN DEPTH (INCLUSIVE OF INSULATION) WILL PASS BELOW EXISTING SPRINKLER MAIN AND BRANCH PIPING. LARGER DUCTS WILL REQUIRE CAREFUL COORDINATION BETWEEN HVAC AND SPRINKLER TRADES. SPRINKLER PIPING MODIFICATIONS WILL BE REQUIRED TO ACCOMMODATE NEW DUCTWORK AND VOLUME BOXES.

EXISTING SPRINKLER DEMOLITION NOTES

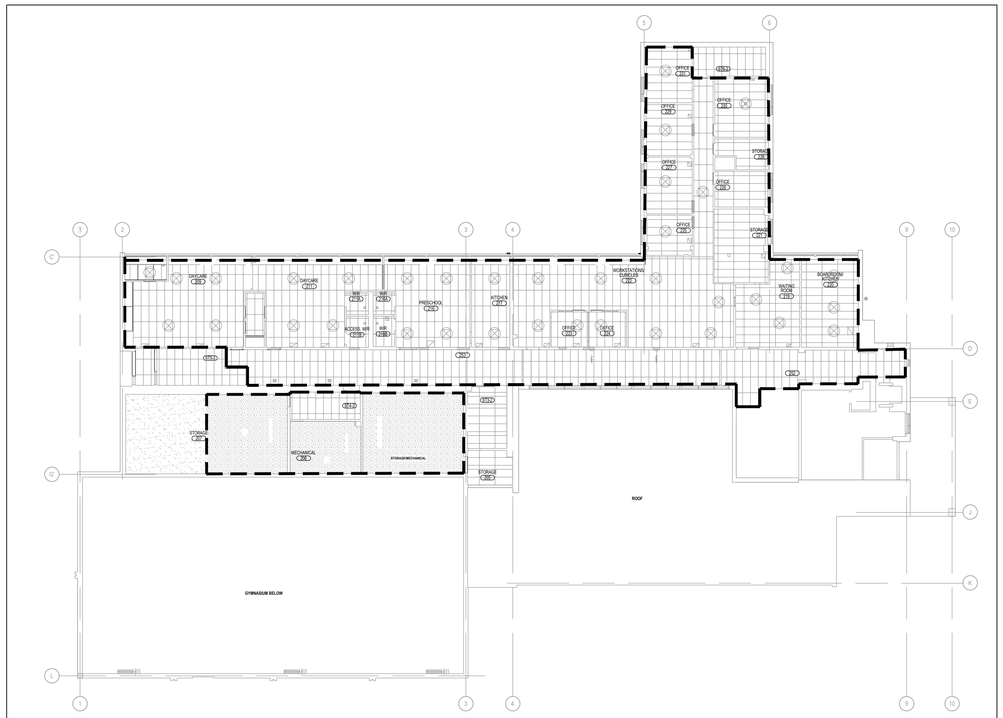
1. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR THE DECOMMISSIONING AND REMOVAL OF THE EXISTING SPRINKLER PIPING AND HEADS IN THE CORRIDOR AREAS AS SHOWN, INCLUDING ALL EXISTING PIPING, SPRINKLER HEADS, ETC.
2. VERIFY LOCATION OF ALL ISOLATION VALVES ON SITE WITH DCC REPRESENTATIVE.
3. COORDINATE AN AGREEABLE SHUTDOWN TIME PERIOD FOR MODIFICATIONS TO THE EXISTING SPRINKLER OR ANY IMPACTS TO THE NEW OR EXISTING SYSTEMS FOR OCCUPIED (NON-CONSTRUCTION) AREA WITH THE GENERAL CONTRACTOR AND DCC REPRESENTATIVE (IF REQUIRED).
4. IN THE EVENT OF ANY FIRE ALARM ACTIVATION OR FIRE, THE WORK SHALL BE STOPPED, OPEN LINES CAPPED AND THE SYSTEM TURNED BACK ON.
5. ALL RESPONSIBLE PERSONNEL SHALL BE INSTRUCTED AS TO THE LOCATION OF THE SPRINKLER CONTROL VALVE THAT CONTROLS THE IMPAIRED AREA UNDER CONSTRUCTION, ALTERATION OR MAINTENANCE. PERSONNEL SHALL UNDERSTAND HOW TO TURN THE VALVE ON.
6. SECURITY PERSONNEL SHALL BE NOTIFIED OF THE SYSTEM SHUT DOWN.
7. A "RED TAG PERMIT" SYSTEM SHALL BE IN PLACE PRIOR TO START OF WORK. IF YOU DO NOT KNOW WHAT A TAG PERMIT SYSTEM IS, SEE NFPA 25, CHAPTER 11.
8. A LOG SHALL BE KEPT OF ALL THE RED TAGS AND THEIR LOCATION.
9. TAGS ARE REQUIRED AT THE FIRE COMMAND CENTER AND CONTROL VALVE FOR THE AREA AFFECTED.
10. ALL REQUIRED MEANS OF EGRESS SHALL BE MAINTAINED AT ALL TIMES.
11. WORK SHALL BE PERFORMED WITHOUT INTERRUPTION SO THAT FIRE PROTECTION SYSTEMS ARE NOT SHUT DOWN ANY LONGER THAN NECESSARY.
12. AT LEAST ONE RESPONSIBLE PERSON MUST REMAIN AT THE IMPAIRED LOCATION AT ALL TIMES WHILE SYSTEM IS IMPAIRED.
13. THE FIRE DEPARTMENT SHALL BE NOTIFIED WHEN THE FIRE ALARM AND SPRINKLER SYSTEM IS SHUT DOWN AND RESTORED. TO REPORT AN EMERGENCY: DIAL 911
14. A SYSTEM ACCEPTANCE OR PERIODIC TEST SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE NFPA STANDARDS. THE RESULTS SHALL BE GIVEN TO THE DCC REPRESENTATIVE AND KEPT ON SITE.
    14.1. NFPA 13 AUTOMATIC SPRINKLER SYSTEMS
    14.1. NFPA 25 MAINTENANCE
15. THE SPRINKLER SYSTEM WILL BE RETURNED TO FULL SERVICE AT THE END OF EACH WORKING DAY.
16. THE FIRE ALARM SYSTEM SHALL BE RETURNED TO FULL SERVICE AT THE END OF EACH WORKING DAY.
17. WORK SHALL BE PLANNED AND ALL MATERIALS AT THE JOB SITE AND READY FOR USE.
18. FIRE EXTINGUISHERS SHALL BE PLACED IN UNPROTECTED AREA(S). AS A MINIMUM, FOR LIGHT (LOW) HAZARD OCCUPANCIES, ONE, 2-A EXTINGUISHER IS REQUIRED PER 3,000 SQ. FT. (SEE NFPA 10).
19. NO WORK SHALL BEGIN UNTIL ALL THE FIRE SAFETY REQUIREMENTS AND OR THE EXTENDED IMPAIRMENT PLAN HAS BEEN IMPLEMENTED.

SPRINKLER AREA LEGEND

SPRINKLER & IMPACTED CEILING AREAS
WET PIPE SPRINKLER SYSTEM



1 403 LEVEL 01 - SPRINKLER PLAN
SCALE: 1:200



1 403 LEVEL 02 - SPRINKLER PLAN
SCALE: 1:200

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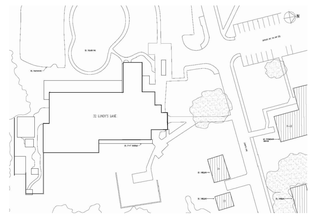
NIVEAU DE SÉCURITÉ | LEVEL OF SECURITY
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LICENSED PROFESSIONAL ENGINEER
100585784
23 Jun 2026
J. L BIEMANN
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
E	2026/06/23	ISSUED FOR TENDER (R1)	
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C	2025/08/14	ISSUED FOR FINAL REVIEW	
B	2025/01/31	ISSUED FOR 99% REVIEW	
A	2024/05/15	ISSUED FOR 60% REVIEW	

ÉCHELLE | SCALE

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE: Mécanique | Mechanical
DATE: 2026/06/23

SUJET | SUBJECT
SPRINKLER PLANS

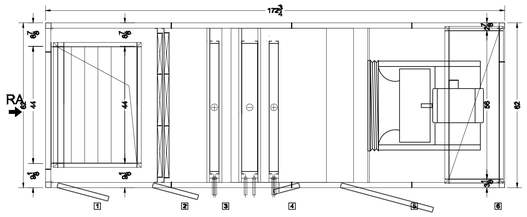
PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED: LR	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN: LR/LS	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED: LR/JB	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.: N.700114.23.01.01
NO. DP | PF NO.: 500540682
NO. DESSIN | DWG. NO.: L-B35-8900 - 402

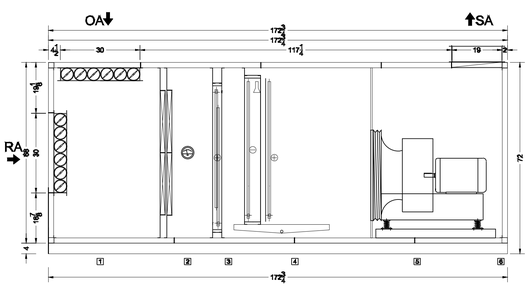
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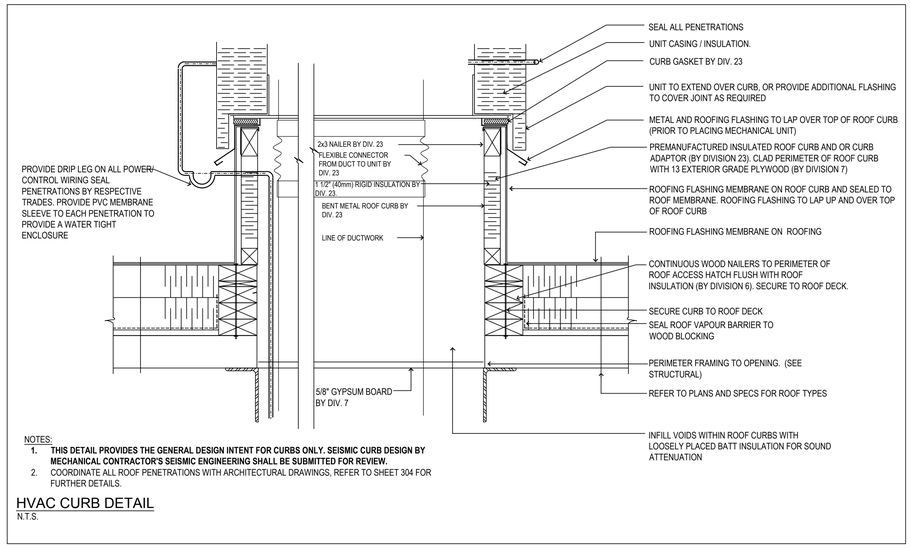
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AHU-7 CONFIGURATION - PLAN VIEW



AHU-7 CONFIGURATION - ELEVATION VIEW



NOTES:

1. **THIS DETAIL PROVIDES THE GENERAL DESIGN INTENT FOR CURBS ONLY. SEISMIC CURB DESIGN BY MECHANICAL CONTRACTOR'S SEISMIC ENGINEERING SHALL BE SUBMITTED FOR REVIEW.**
2. COORDINATE ALL ROOF PENETRATIONS WITH ARCHITECTURAL DRAWINGS, REFER TO SHEET 304 FOR FURTHER DETAILS.

HVAC CURB DETAIL

N.T.S.

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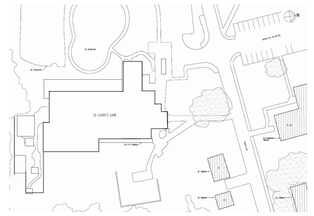
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Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE	DATE
Mécanique | Mechanical	2026/06/23

SUJET | SUBJECT
HVAC DETAILS

PRODUCTION	REVU | REVIEWED	
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VÉRIFIÉ | CHECKED LR/JB	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO. N.700114.23.01.01
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NO. DESSIN | DWG. NO. L-B35-8900 - 403

Canada

Dernière mise à jour du fichier 2012-04-01
2026/Jun/24, 7:54am lslubinsky 402 H:\2022 Projects\22560 DCC HVAC\01 A DWGs\5 CADs\03 Mechanical\01 Drawing Sheets Mechanical\401,402 - Mechanical Notes, Legends, and Schedules.dwg

LEGEND - HYDRONIC SYSTEMS	
SYMBOL	DESCRIPTION
—— XXX(E) ——	EXISTING PIPING TO REMAIN
—— XXX(R) ——	EXISTING PIPING TO BE RELOCATED
—— XXX(X) ——	EXISTING PIPING TO BE REMOVED
—HWS—	HOT WATER SUPPLY
—HWR—	HOT WATER RETURN
T	THERMOSTAT
▶	FLOW DIRECTION
	CHECK VALVE
	MOTORIZED CONTROL VALVE
	LOCK SHIELD
	PIPE DOWN
	PIPE UP

HYDRONIC PIPING FLUSHING, CLEANING, AND REPAIR SCOPE OF WORK

GENERAL SCOPE

- THE EXISTING HYDRONIC HEATING SYSTEM PIPING SERVING RADIATORS THROUGHOUT THE BATOCHE COMMUNITY CENTER SHALL UNDERGO FLUSHING, CLEANING, AND NECESSARY REPLACEMENT TO ACHIEVE OPTIMAL PERFORMANCE. THIS WORK INCLUDES INSPECTION, REPAIR, INSTALLATION OF NEW CONTROL VALVES AND THERMOSTATS, PRESSURE TESTING, AND INTEGRATION WITH THE BUILDING AUTOMATION SYSTEM (BAS). THE WORK OUTLINED BELOW AND AS INCLUDED ON THE CONSTRUCTION DRAWINGS SHALL BE ADHERED TO BY THE CONTRACTOR . REFER TO THE SPECIFICATIONS FOR FURTHER DETAILS ON PIPE INSTALLATION, MATERIALS, FITTINGS, ETC.

SCOPE OF WORK

SYSTEM SHUTDOWN AND DRAINAGE:

- SHUT DOWN THE EXISTING BOILER SYSTEM.
- DRAIN THE ENTIRE HYDRONIC SYSTEM BEFORE COMMENCING WORK.
- WORK TO BE IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION SPECIFICATION 01 35 43.

FLUSHING AND CLEANING:

- WORK TO BE IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION SPECIFICATION 01 35 43, INCLUDING DISPOSAL OF MECHANICAL FLUSHING LIQUIDS.
- PERFORM A HIGH-VELOCITY MECHANICAL FLUSH OF ALL EXISTING PIPING.
- INTRODUCE A SUITABLE CHEMICAL CLEANING AGENT TO REMOVE SCALE, DEBRIS, AND SLUDGE.
- ALLOW THE CLEANING SOLUTION TO CIRCULATE THROUGH THE SYSTEM FOR THE MANUFACTURER'S RECOMMENDED TIME.
- CONDUCT A FINAL FLUSH WITH CLEAN WATER TO ENSURE COMPLETE REMOVAL OF CLEANING AGENTS.
- ENSURE ALL WASTE WATER AND DEBRIS FROM THE FLUSHING AND CLEANING PROCESS ARE DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- IN ADDITION TO PIPE CLEANING, REMOVE COVERS AS REQUIRED TO ACCESS AND CLEAN THE FINS AND FILTERS OF HEATING UNITS BY VACUUM AND CLEAN COMPRESSED AIR TO CLEAR THEM OF ANY DUST AND DEBRIS.

INSPECTION:

- INSPECT ALL ACCESSIBLE PIPING FOR CORROSION, DAMAGE, OR LEAKS.
- IDENTIFY ANY AREAS WITH DAMAGED OR CORRODED PIPING SECTIONS WHERE PIPING REPLACEMENT MAY BE REQUIRED
- PREPARE A REPORT INCLUDING PICTURES, LOCATIONS, PIPE SIZE AND IMPACTED LENGTHS
- NOTIFY THE DCC REPRESENTATIVE AND AWAIT FURTHER INSTRUCTION PRIOR TO CONTINUING THE WORK

CONTROL VALVES AND THERMOSTATS:

- INSTALL NEW CONTROL VALVES AT EACH RADIATOR AS PER THE NEW DRAWINGS.
- CONNECT EACH CONTROL VALVE TO THE BAS FOR CENTRALIZED CONTROL AND MONITORING.
- INSTALL NEW THERMOSTATS TO CONTROL NEW CONTROL VALVES, REVIEW PLANS FOR LOCATIONS (GENERALLY REPLACED IN PLACE) - RECESSED WHERE POSSIBLE USING EXISTING BACK BOXES AND CONDUIT. PROVIDE SURFACE MOUNT AND WIRE MOLD FOR NEW LOCATIONS ON BLOCK WALLS ONLY.
- NEW THERMOSTATS TO BE INTEGRATED WITH BAS TO ENABLE CONTROL OF BOTH THE RADIATOR CONTROL VALVE, ASSOCIATED VOLUME BOX AND ANY SUPPLEMENTAL COOLING WHERE APPLICABLE.

PRESSURE TESTING:

- CONDUCT PRESSURE TESTING OF THE ENTIRE HYDRONIC PIPING SYSTEM TO IDENTIFY LEAKS IN ACCORDANCE WITH SPECIFICATIONS. PROVIDE DCC REPRESENTATIVE WITH A COPY OF THE REPORT.

SYSTEM BALANCING:

- BALANCE THE HYDRONIC SYSTEM TO ENSURE PROPER FLOW RATES TO ALL RADIATORS. PROVIDE DCC REPRESENTATIVE WITH A COPY OF THE REPORT.

SYSTEM FILLING AND COMMISSIONING:

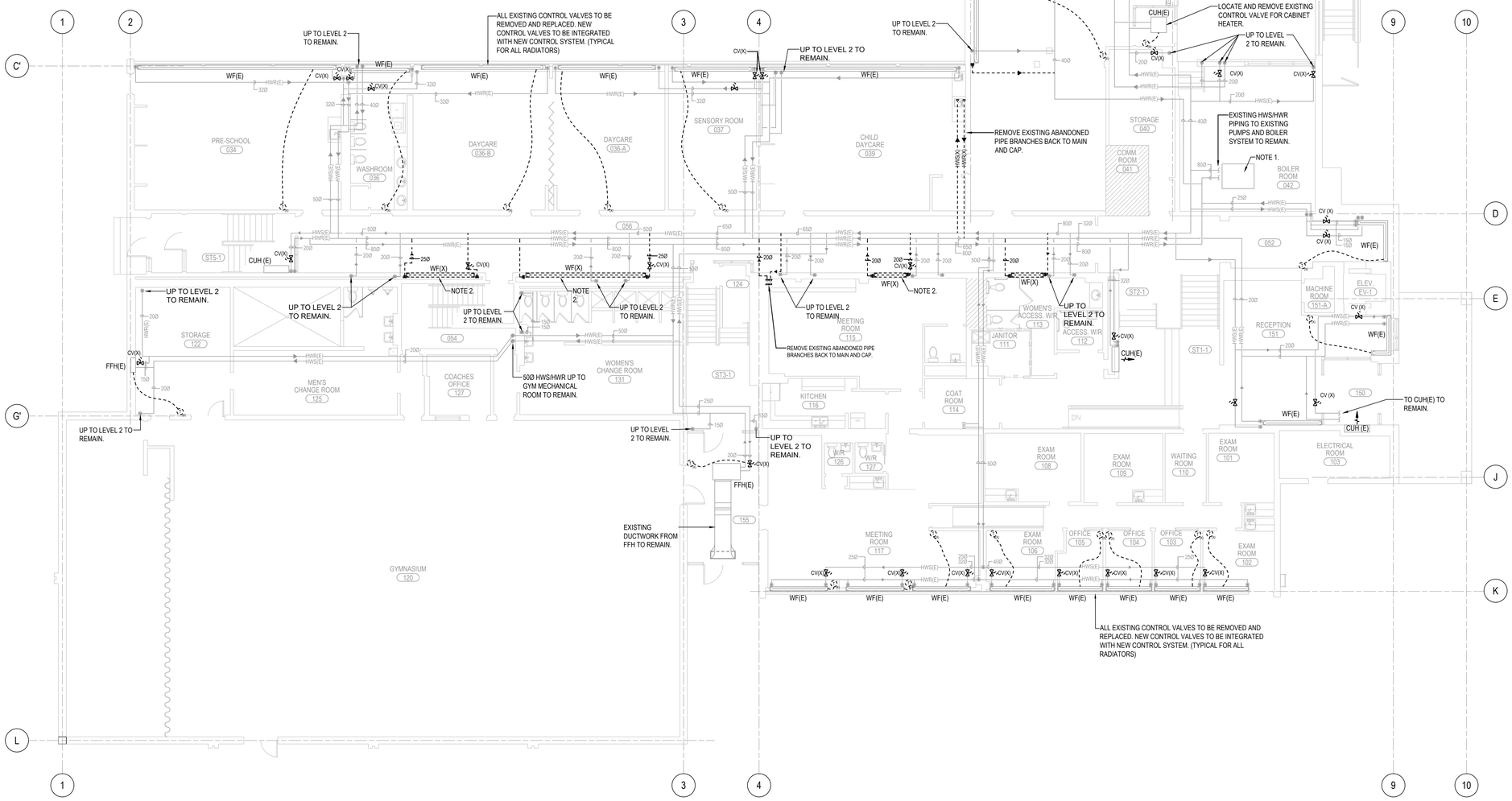
- REFILL THE SYSTEM WITH TREATED WATER, ENSURING ALL AIR IS PURGED FROM THE SYSTEM.
- COORDINATE WITH THE BAS CONTRACTOR TO VERIFY FUNCTIONALITY OF ALL CONTROL VALVES AND THERMOSTATS.

DOCUMENTATION AND HANDOVER:

- PROVIDE UPDATED AS-BUILT DRAWINGS SHOWING REPLACED PIPING SECTIONS AND INSTALLED CONTROL DEVICES.
- SUBMIT A COMMISSIONING REPORT DETAILING THE CLEANING, FLUSHING, REPAIR, AND TESTING PROCEDURES.
- PROVIDE ON-SITE TRAINING FOR FACILITY MAINTENANCE PERSONNEL ON SYSTEM OPERATION AND MAINTENANCE PROCEDURES.

EXISTING HYDRONIC KEYNOTES

1. EXISTING BOILER LOCATED IN BOILER ROOM TO REMAIN ALONG WITH ALL ASSOCIATED CONNECTIONS (HWS, HWR, CONTROLS, POWER, ETC.)
2. EXISTING RADIATOR TO BE REMOVED ALONG ALL ASSOCIATED COMPONENTS INCLUDING CONTROL VALVES, CONTROL WIRING, PIPING, ETC. CUT BACK EXISTING HWS AND HWR LINES AND CAP AT MAIN IN CORRIDOR CEILING.



1 404 LEVEL 01 - HYDRONIC HEATING PLAN - EXISTING & REMOVALS
SCALE: 1:100

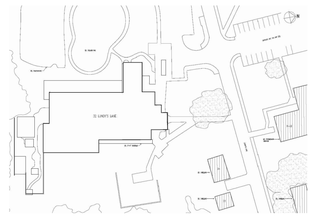
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Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE: Mécanique | Mechanical
DATE: 2026/06/23

SUJET | SUBJECT
LEVEL 01 - HYDRONIC HEATING PLAN - EXISTING AND REMOVALS

PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED: LR	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN: LS/LR	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED: LR/JB	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO. N.700114.23.01.01
NO. DP | PF NO. 500540682
NO. DESSIN | DWG. NO. L-B35-8900 - 404

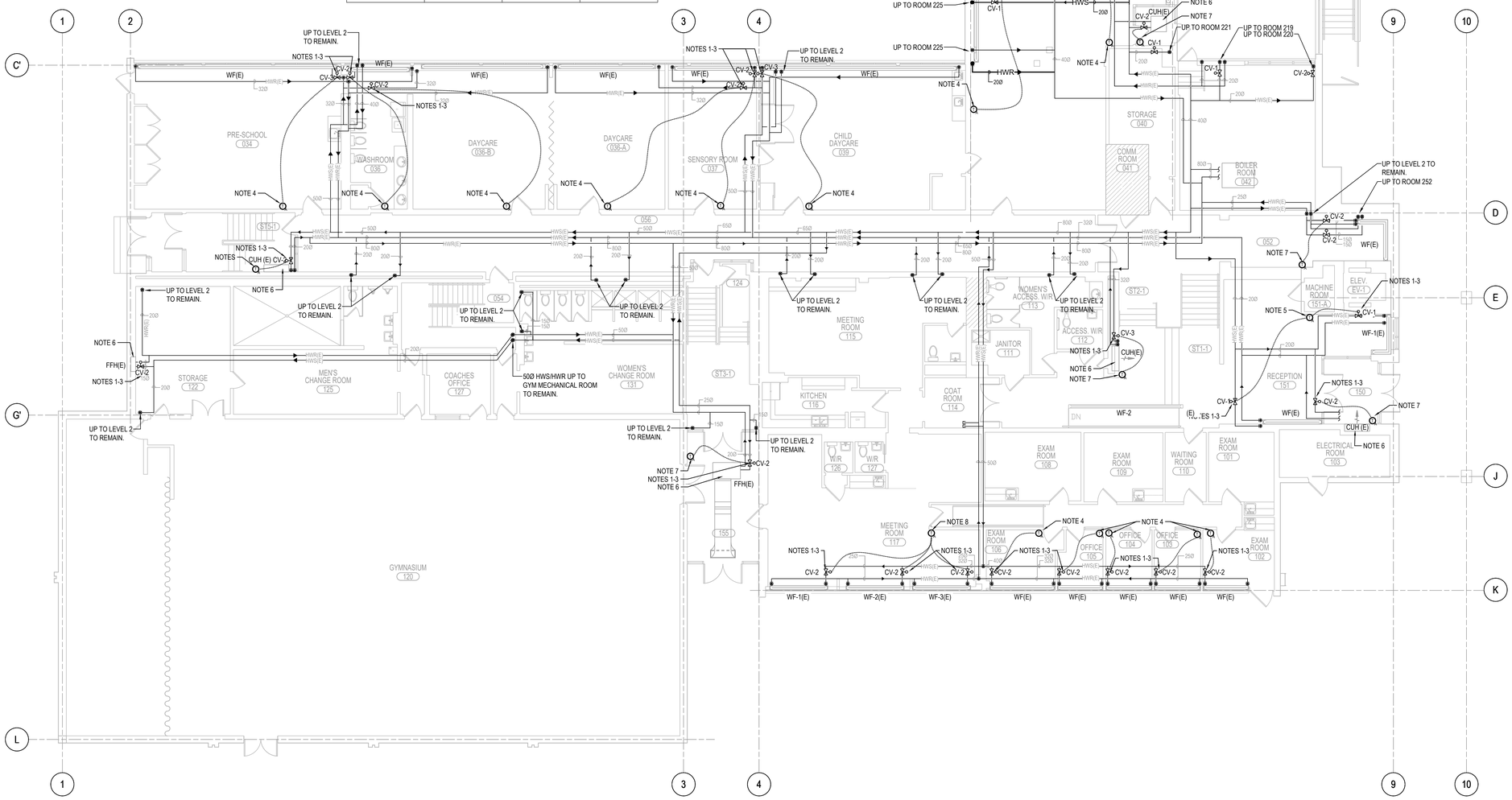
Canada

LEGEND - HYDRONIC SYSTEMS	
SYMBOL	DESCRIPTION
—— XXX(E) ——	EXISTING PIPE TO REMAIN
—— XXX(R) ——	EXISTING PIPING TO BE RELOCATED
—— XXX(X) ——	EXISTING PIPING TO BE REMOVED
—HWS—	HOT WATER SUPPLY
—HWR—	HOT WATER RETURN
T	THERMOSTAT
▶	FLOW DIRECTION
	CHECK VALVE
	MOTORIZED CONTROL VALVE
	LOCK SHIELD
	PIPE DOWN
	PIPE UP

LEVEL 1 CONTROL VALVE LEGEND			
ROOM	CV TAG	HEATING OUTPUT (KW)	FLOW (LPM)
034	CV-3	15.83	20.44
036	CV-2	3.22	4.16
036-B	CV-2	8.06	10.41
036-A	CV-2	8.06	10.41
037	CV-2	6.30	8.14
039	CV-3	12.16	15.71
043-1	CV-2	4.84	6.25
043-2	CV-2	5.86	7.57
043-VEST(CUH)	CV-2	4.98	6.44
045	CV-1	2.29	2.95
046	CV-1	0.73	0.95
047	CV-1	0.73	0.95
049	CV-1	0.73	0.95
052	CV-2	4.10	5.30
102	CV-2	5.77	7.46
103	CV-2	6.15	7.95
104	CV-2	6.15	7.95
105	CV-2	6.15	7.95
106	CV-2	7.47	9.65
117	CV-2	4.16	5.38
117	CV-2	4.16	5.38
117	CV-2	4.16	5.38
122	CV-2	8.56	11.05
150	CV-2	7.94	10.26
151-1(WF)	CV-1	2.64	3.41
151-2(WF)	CV-1	1.03	1.32
151(CUH)	CV-3	16.88	21.80
155	CV-2	8.56	11.05
ST5-1(CUH)	CV-2	5.39	6.97
ST6-1(CUH)	CV-2	7.94	10.26

CONTROL VALVE INSTALLATION KEYNOTES

1. ISOLATE RADIATOR WITH SHUTOFF VALVES LOCATED WITHIN RADIATOR ENCLOSURE OR ADJACENT CEILING SPACE.
2. REMOVE EXISTING CONTROL VALVE. INSTALL NEW CONTROL VALVE DOWNSTREAM OF SHUTOFF VALVE.
3. REFER TO MECHANICAL SCHEDULES FOR CONTROL VALVE SPECIFICATIONS BY INLET PIPE SIZE
4. PROVIDE NEW THERMOSTAT IN LOCATION SHOWN AND CONNECT TO NEW BUILDING AUTOMATION SYSTEM. ONLY ONE THERMOSTAT WILL BE INSTALLED IN THIS ROOM FOR COMMUNICATION WITH THE BAS TO CONTROL BOTH THE RADIATOR AND VOLUME BOX.
5. CONTROL BOTH RADIATORS FOR RECEPTION FROM THIS THERMOSTAT ONLY
6. EXISTING HEATER TO BE CONTROLLED VIA BAS. DIV. 25 TO PROVIDE 120V/15A RELAY WITH LOW VOLTAGE COIL FOR INTEGRATION WITH MECHANICAL CONTROLS SYSTEM (BAS). INSTALLATION OF RELAY BY DIV. 26. ALL LOW VOLTAGE WIRING BY DIV. 25.
7. PROVIDE NEW THERMOSTAT IN LOCATION SHOWN AND CONNECT TO NEW BUILDING AUTOMATION SYSTEM.
8. CONTROL ALL RADIATORS FOR 117 MEETING ROOM FROM THIS THERMOSTAT ONLY



1 405 LEVEL 01 - HYDRONIC HEATING PLAN - NEW
SCALE: 1:100

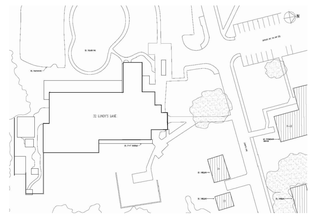
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Canada

Dernière mise à jour du fichier 2012-04-01

LEGEND - HYDRONIC SYSTEMS	
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HYDRONIC PIPING FLUSHING, CLEANING, AND REPAIR SCOPE OF WORK

GENERAL SCOPE

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- SHUT DOWN THE EXISTING BOILER SYSTEM.
- DRAIN THE ENTIRE HYDRONIC SYSTEM BEFORE COMMENCING WORK.
- WORK TO BE IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION SPECIFICATION 01 35 43.

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- WORK TO BE IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION SPECIFICATION 01 35 43, INCLUDING DISPOSAL OF MECHANICAL FLUSHING LIQUIDS.
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- INTRODUCE A SUITABLE CHEMICAL CLEANING AGENT TO REMOVE SCALE, DEBRIS, AND SLUDGE.
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- CONDUCT PRESSURE TESTING OF THE ENTIRE HYDRONIC PIPING SYSTEM TO IDENTIFY LEAKS IN ACCORDANCE WITH SPECIFICATIONS. PROVIDE DCC REPRESENTATIVE WITH A COPY OF THE REPORT.

SYSTEM BALANCING:

- BALANCE THE HYDRONIC SYSTEM TO ENSURE PROPER FLOW RATES TO ALL RADIATORS. PROVIDE DCC REPRESENTATIVE WITH A COPY OF THE REPORT.

SYSTEM FILLING AND COMMISSIONING:

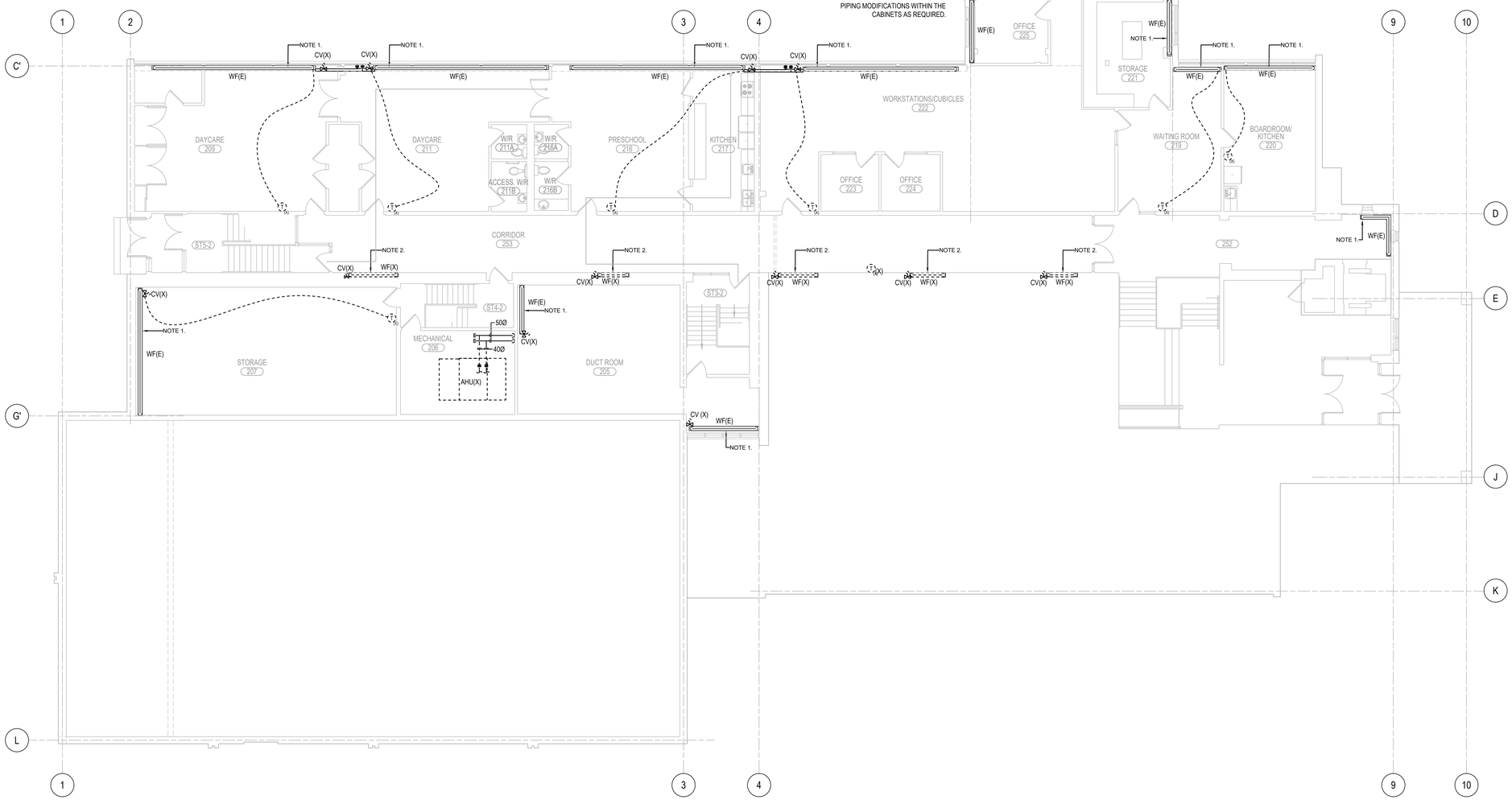
- REFILL THE SYSTEM WITH TREATED WATER, ENSURING ALL AIR IS PURGED FROM THE SYSTEM.
- COORDINATE WITH THE BAS CONTRACTOR TO VERIFY FUNCTIONALITY OF ALL CONTROL VALVES AND THERMOSTATS.

DOCUMENTATION AND HANDOVER:

- PROVIDE UPDATED AS-BUILT DRAWINGS SHOWING REPLACED PIPING SECTIONS AND INSTALLED CONTROL DEVICES.
- SUBMIT A COMMISSIONING REPORT DETAILING THE CLEANING, FLUSHING, REPAIR, AND TESTING PROCEDURES.
- PROVIDE ON-SITE TRAINING FOR FACILITY MAINTENANCE PERSONNEL ON SYSTEM OPERATION AND MAINTENANCE PROCEDURES.

EXISTING HYDRONIC KEYNOTES

1. ALL PIPING TO RUN IN FLOOR JOISTS, AND COME UP TO CONNECT RADIATORS THROUGH THE WALLS. ROUTING OF HYDRONIC PIPING SHALL BE EXAMINED ON SITE TO DETERMINE ANY CHANGES TO THESE DRAWINGS, WHICH MAY HAVE OCCURRED DURING PAST RENOVATIONS TO ACCOMMODATE FOR NEW HVAC SYSTEMS.
2. EXISTING RADIATOR WITHIN CORRIDOR SHALL BE REMOVED. REMOVE EXISTING CONTROL VALVE AND ASSOCIATED CONTROL COMPONENTS. CUT BACK AND CAP HEATING PIPING WITHIN WALL. WALL TO BE PATCHED TO SUIT EXISTING CONSTRUCTION.



1 406 LEVEL 02 - HYDRONIC HEATING PLAN - EXISTING & REMOVALS

SCALE: 1:100

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NIVEAU DE SÉCURITÉ | LEVEL OF SECURITY

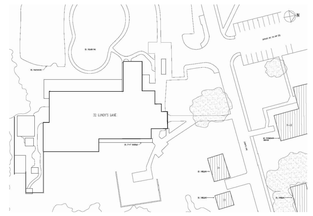
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23 Jun 2026
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ÉCHELLE | SCALE

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Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE	DATE
Mécanique | Mechanical	2026/06/23

SUJET | SUBJECT
LEVEL 02 - HYDRONIC HEATING PLAN - EXISTING AND REMOVALS

PRODUCTION	REVU | REVIEWED	
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DESSINÉ | DRAWN LS/LR	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
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COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO. N.700114.23.01.01
NO. DP | PF NO. 500540682
NO. DESSIN | DWG. NO. L-B35-8900 - 406

Canada

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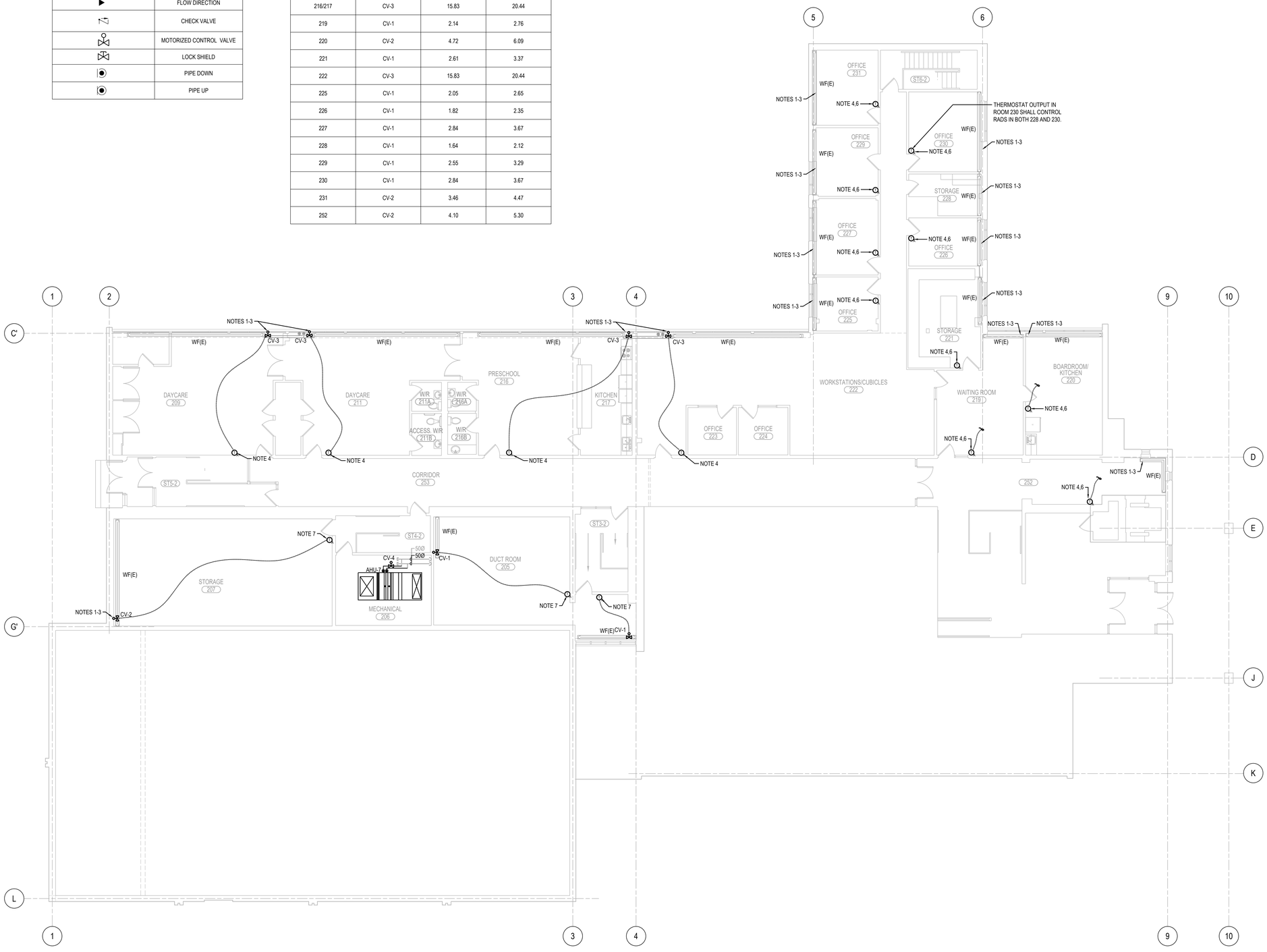
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LEGEND - HYDRONIC SYSTEMS	
SYMBOL	DESCRIPTION
—— XXX(E) ——	EXISTING PIPE TO REMAIN
—— XXX(R) ——	EXISTING PIPING TO BE RELOCATED
—— XXX(X) ——	EXISTING PIPING TO BE REMOVED
——HWS——	HOT WATER SUPPLY
——HWR——	HOT WATER RETURN
T	THERMOSTAT
▶	FLOW DIRECTION
	CHECK VALVE
	MOTORIZED CONTROL VALVE
	LOCK SHIELD
	PIPE DOWN
	PIPE UP

LEVEL 2 CONTROL VALVE LEGEND			
ROOM	CV TAGS	HEATING OUTPUT (KW)	FLOW (LPM)
205	CV-1	3.12	4.03
ST3-2	CV-1	3.12	4.03
206 (AHU-7)	CV-4	131.89	113.56
207	CV-2	6.24	8.06
209	CV-3	19.11	24.68
211	CV-3	15.83	20.44
216/217	CV-3	15.83	20.44
219	CV-1	2.14	2.76
220	CV-2	4.72	6.09
221	CV-1	2.61	3.37
222	CV-3	15.83	20.44
225	CV-1	2.05	2.65
226	CV-1	1.82	2.35
227	CV-1	2.84	3.67
228	CV-1	1.64	2.12
229	CV-1	2.55	3.29
230	CV-1	2.84	3.67
231	CV-2	3.46	4.47
252	CV-2	4.10	5.30

CONTROL VALVE INSTALLATION KEYNOTES

1. ISOLATE RADIATOR WITH SHUTOFF VALVES LOCATED WITHIN RADIATOR ENCLOSURE OR ADJACENT CEILING SPACE.
2. REMOVE EXISTING CONTROL VALVE. INSTALL NEW CONTROL VALVE DOWNSTREAM OF SHUTOFF VALVE.
3. REFER TO MECHANICAL SCHEDULES FOR CONTROL VALVE SPECIFICATIONS BY INLET PIPE SIZE
4. PROVIDE NEW THERMOSTAT IN LOCATION SHOWN AND CONNECT TO NEW BUILDING AUTOMATION SYSTEM. ONLY ONE THERMOSTAT WILL BE INSTALLED IN THIS ROOM FOR COMMUNICATION WITH THE BAS TO CONTROL BOTH THE RADIATOR AND VOLUME BOX.
5. CONTROL BOTH RADIATORS FOR RECEPTION FROM THIS THERMOSTAT ONLY
6. CONTROL VALVE LOCATED IN LEVEL 1 CEILING SPACE.
7. PROVIDE NEW THERMOSTAT IN LOCATION SHOWN AND CONNECT TO NEW BUILDING AUTOMATION SYSTEM.



1 / 407 LEVEL 02 - HYDRONIC HEATING PLAN - NEW
SCALE: 1:100

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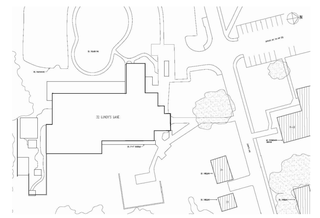
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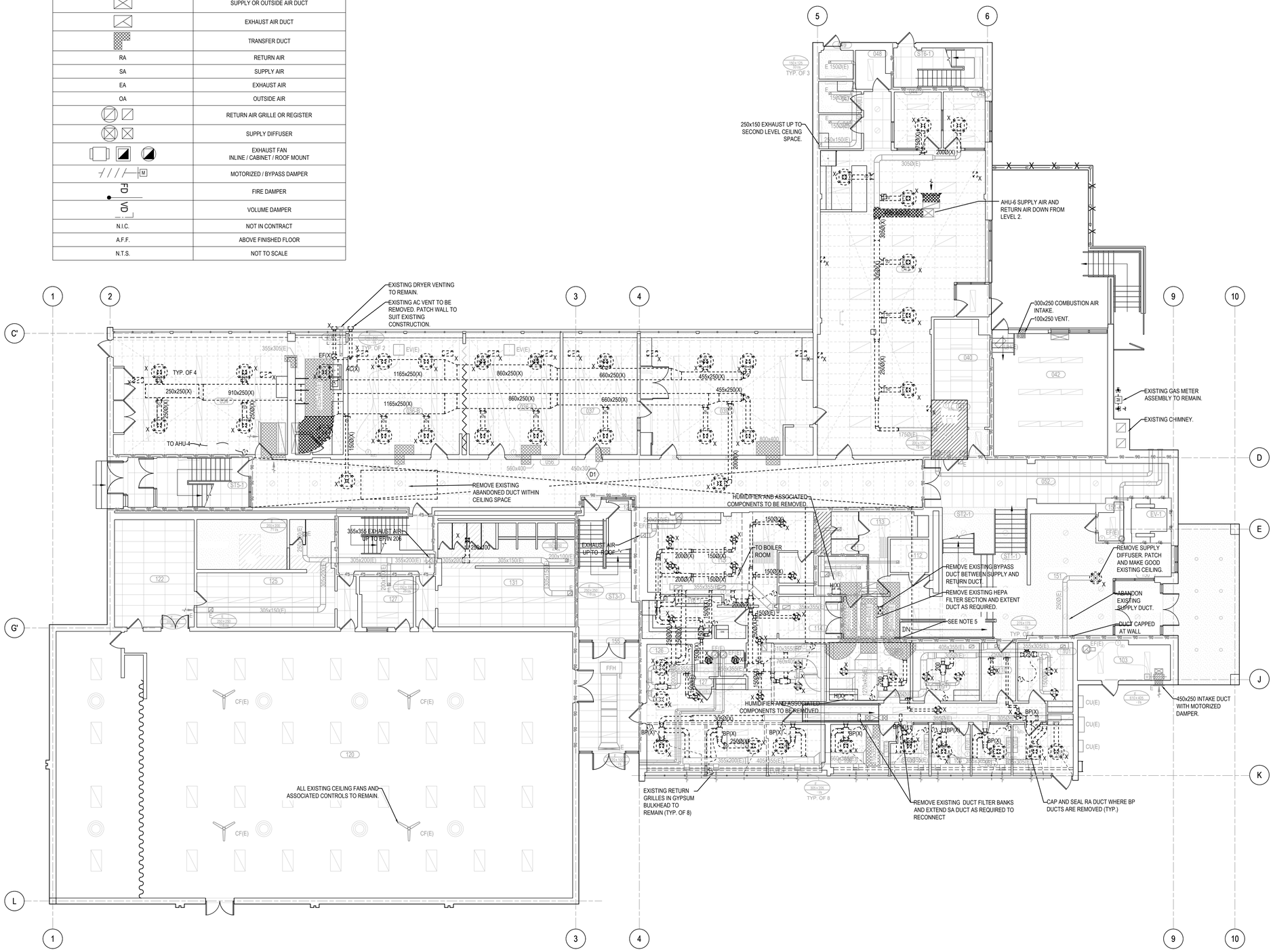
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	EXHAUST AIR DUCT
	TRANSFER DUCT
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EA	EXHAUST AIR
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	RETURN AIR GRILLE OR REGISTER
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HVAC GENERAL REMOVALS NOTES

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1 / 408 LEVEL 01 - HVAC PLAN - EXISTING & REMOVALS
SCALE: 1:100

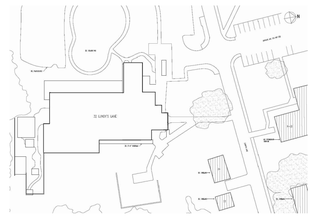
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MÉTIER | TRADE	DATE
Mechanical| Mécanique	2026/06/23

SUJET | SUBJECT
LEVEL 01 - HVAC PLAN - EXISTING & REMOVALS

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DESSINÉ | DRAWN LR/LS	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
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COORDINATION		INCENDIE | FIRE

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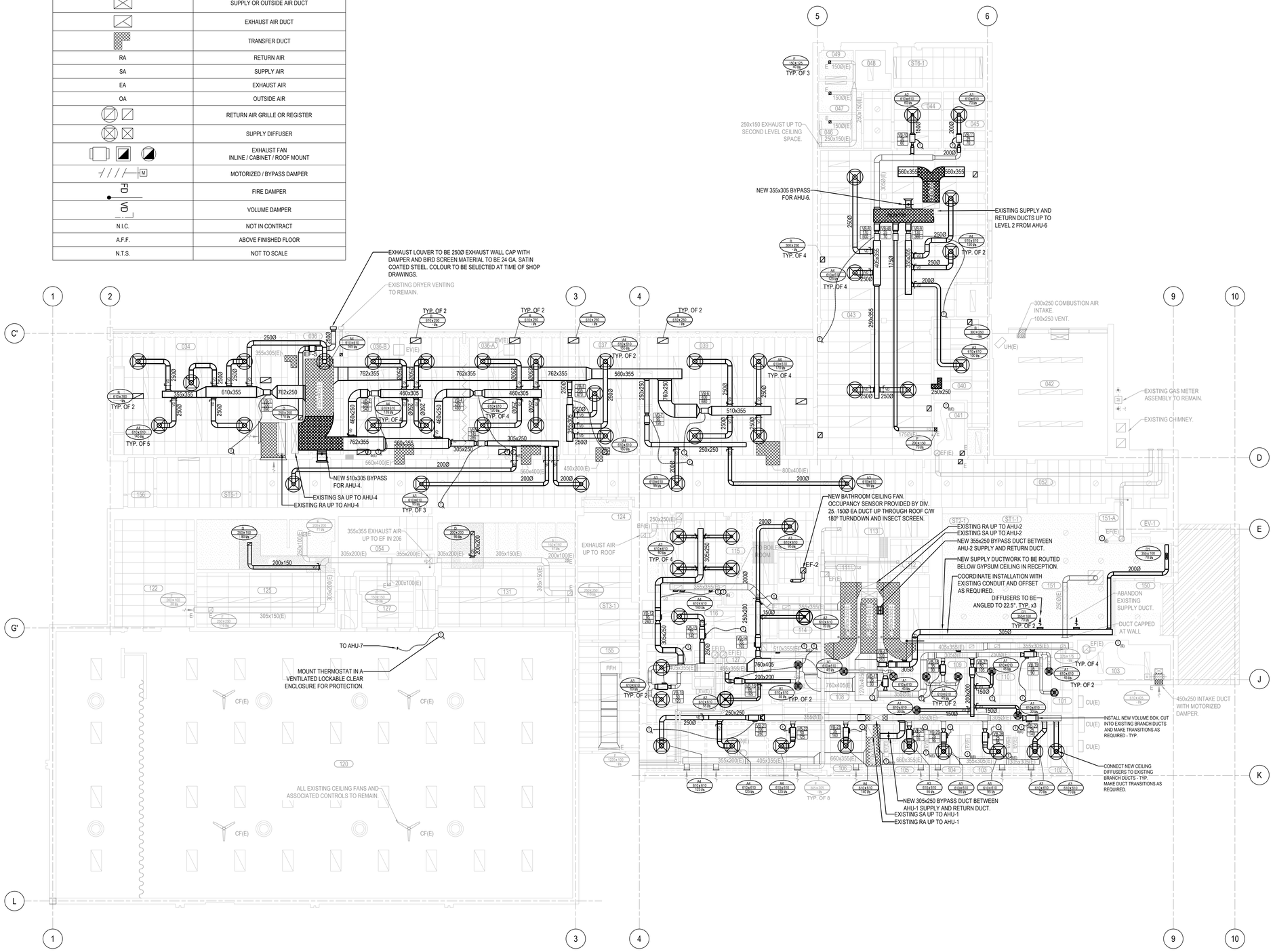
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2. CLEAN ALL EXISTING DUCTWORK AND DIFFUSERS PRIOR TO CONNECTION WITH ANY NEW DUCTWORK SYSTEMS.
3. TEST AND RESET ALL EXISTING FIRE DAMPERS WHILE CEILINGS ARE OPEN. NOTIFY THE DCC REPRESENTATIVE OF ANY DEFICIENCIES.



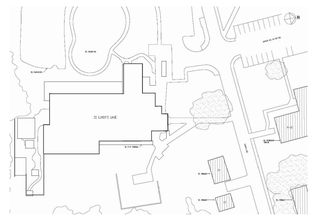
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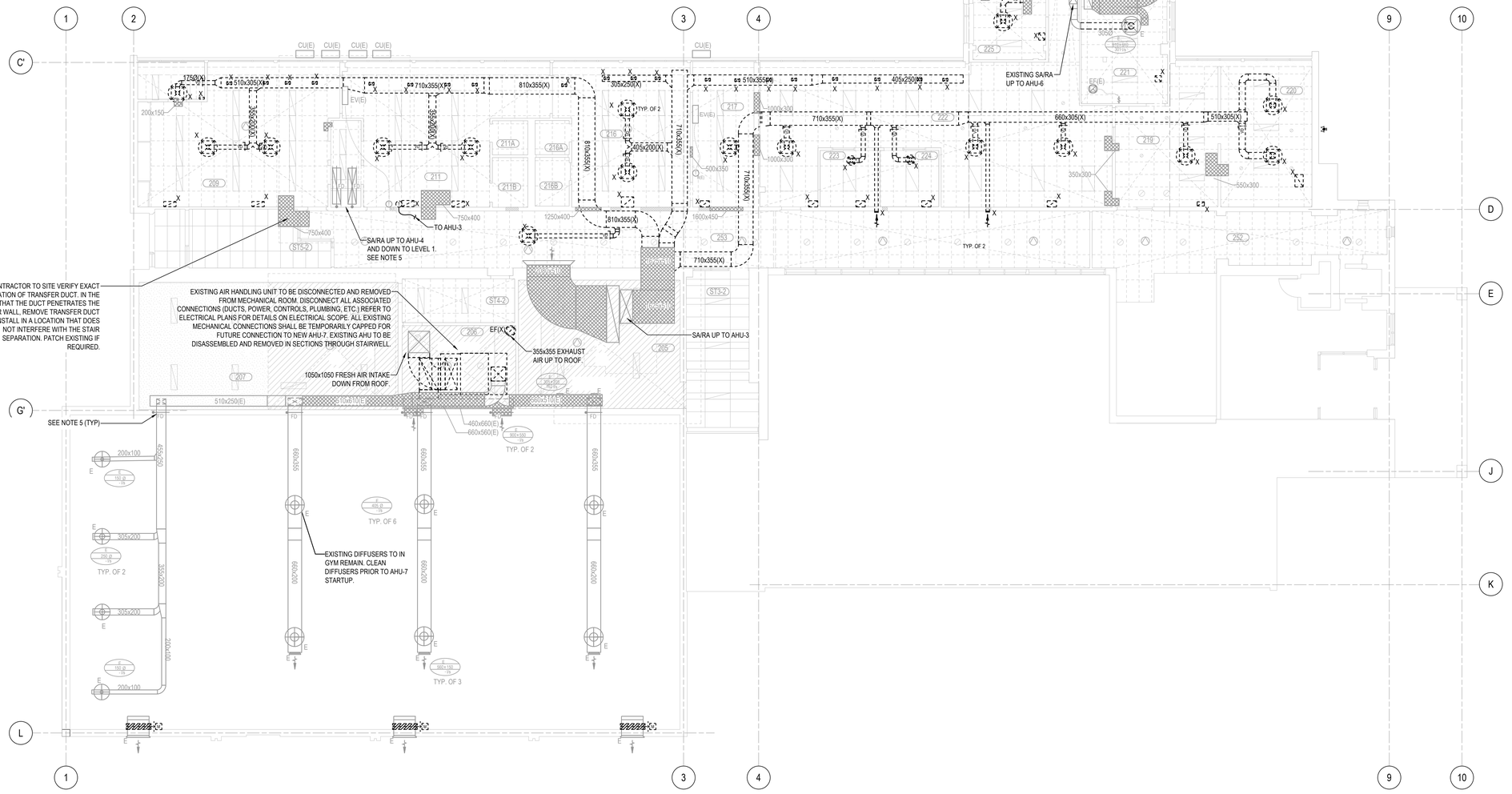
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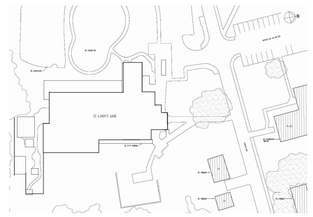
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DESSINÉ | DRAWN LR/LS	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED LR/JB	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.
N.700114.23.01.01

NO. DP | PF NO.
500540682

NO. DESSIN | DWG. NO.
L-B35-8900 - 410

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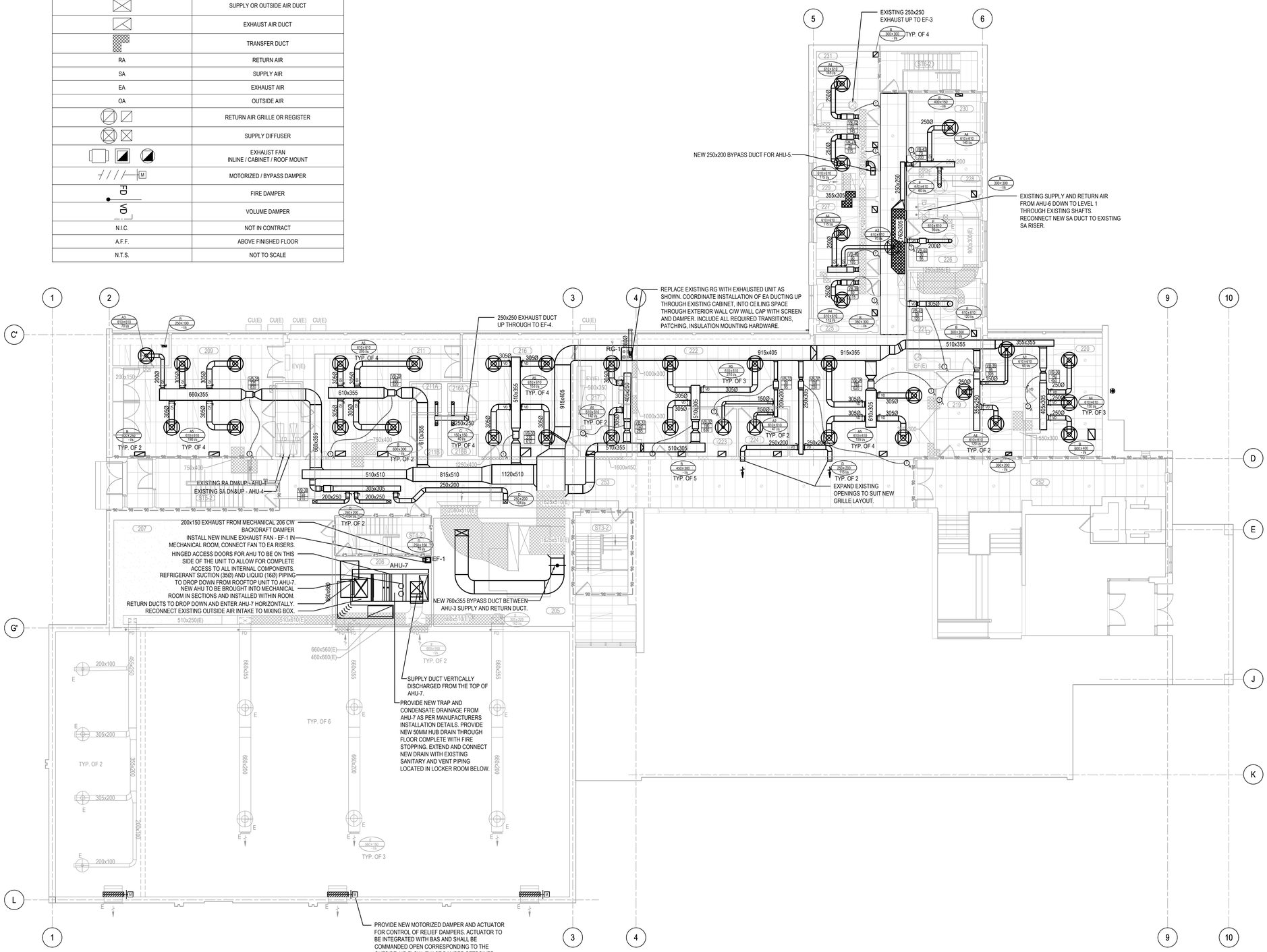
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LEGEND - HVAC	
SYMBOL	DESCRIPTION
	INTERNAL ACOUSTIC INSULATION AND LINER
X: TYPE Y: SIZE (mm) Z: CAPACITY (L/s)	DIFFUSER TAG LEGEND (EXAMPLE)
VB-1 TAG 95 MIN AIRFLOW (L/s) 190 DESIGN AIRFLOW (L/s)	VOLUME BOX LEGEND (EXAMPLE)
	RETURN AIR DUCT
	SUPPLY OR OUTSIDE AIR DUCT
	EXHAUST AIR DUCT
	TRANSFER DUCT
RA	RETURN AIR
SA	SUPPLY AIR
EA	EXHAUST AIR
OA	OUTSIDE AIR
	RETURN AIR GRILLE OR REGISTER
	SUPPLY DIFFUSER
	EXHAUST FAN INLINE / CABINET / ROOF MOUNT
M	MOTORIZED / BYPASS DAMPER
FD	FIRE DAMPER
VD	VOLUME DAMPER
N.I.C.	NOT IN CONTRACT
A.F.F.	ABOVE FINISHED FLOOR
N.T.S.	NOT TO SCALE

HVAC GENERAL NOTES

1. COORDINATION WILL BE REQUIRED BETWEEN THE DUCTWORK, SPRINKLERS, STRUCTURAL, LIGHTING AND EQUIPMENT LAYOUTS WITHIN ALL CEILINGS DUE TO LIMITED CEILING SPACE. PROVIDE DETAILED COORDINATION / INTERFERENCE DRAWINGS WITH ELECTRICAL AND MECHANICAL HVAC, HYDRONIC PIPING AND PLUMBING CONTRACTORS PRIOR TO INSTALLATION IN ORDER TO MINIMIZE INTERFERENCES WITH THE EXISTING SPRINKLER SYSTEM.
2. CLEAN ALL EXISTING DUCTWORK AND DIFFUSERS PRIOR TO CONNECTION WITH ANY NEW DUCTWORK SYSTEMS.



1 / 411 LEVEL 02 - HVAC PLAN - NEW
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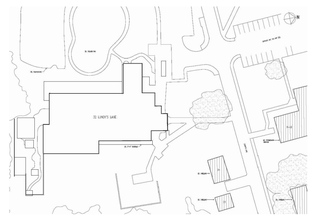
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29560
23 June 2026
J. L. BIEMANN
100085784
PROVINCE OF ONTARIO

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A	2024/05/15	ISSUED FOR 60% REVIEW	

ÉCHELLE | SCALE

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE	DATE
Mécanique | Mechanical	2026/06/23

SUJET | SUBJECT
LEVEL 02 - HVAC PLAN - NEW

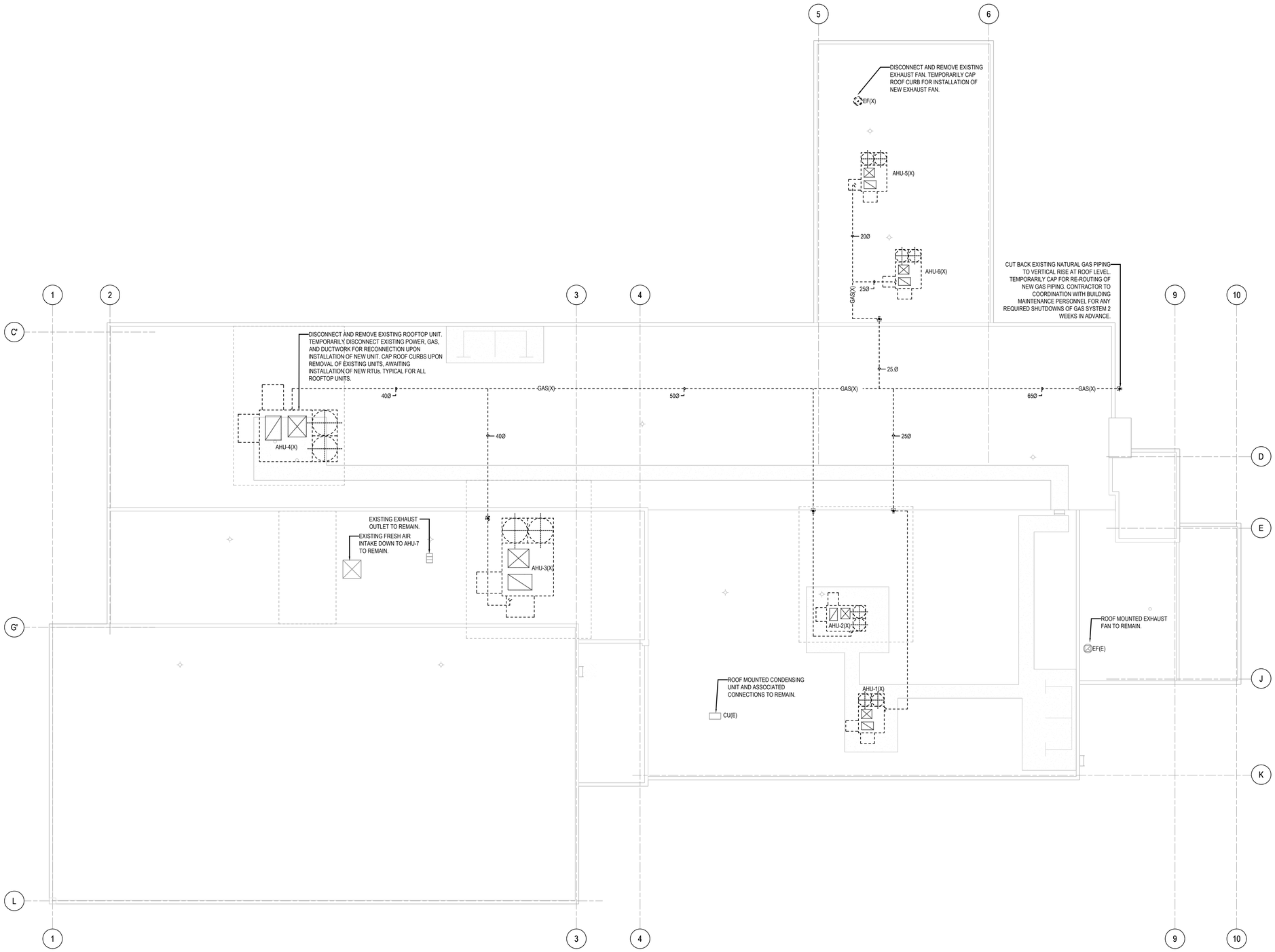
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DESSINÉ | DRAWN LR/LS	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
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1 / 412 ROOF PLAN - EXISTING & REMOVALS

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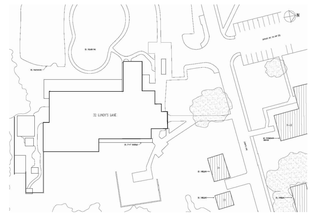
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HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE: Mécanique | Mechanical
DATE: 2026/06/23

SUJET | SUBJECT
ROOF PLAN - EXISTING AND REMOVALS

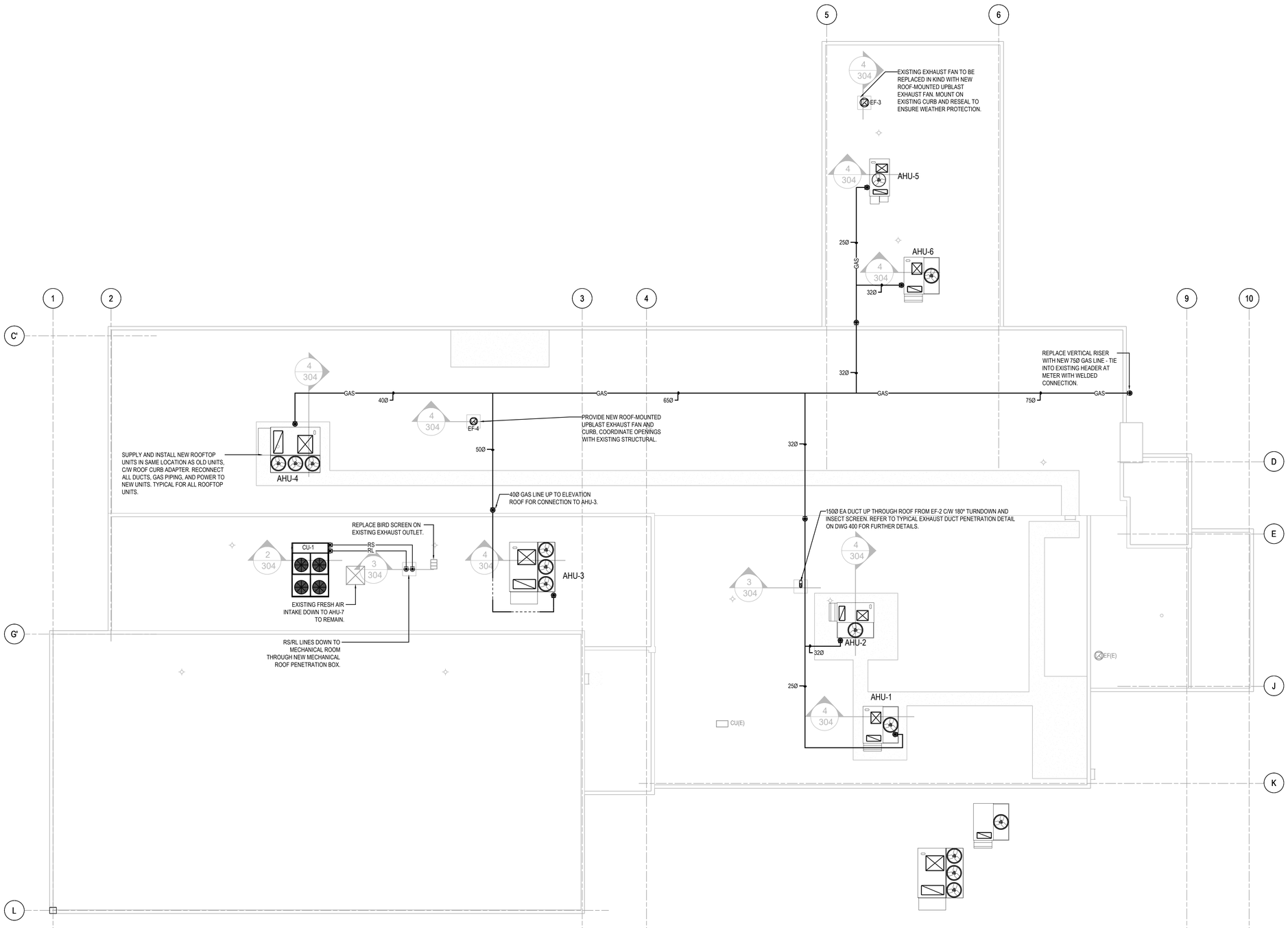
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1 / 413 ROOF PLAN - NEW
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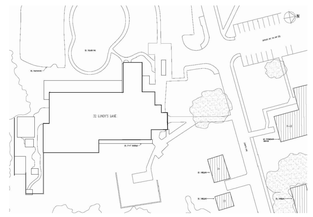
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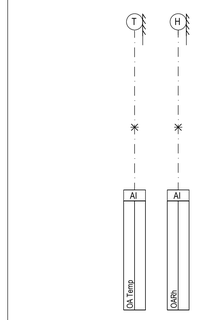
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GENERAL CONTROLS NOTES

1. PROVIDE NEW BUILDING AUTOMATION SYSTEM (BAS) AS NOTED IN SPECIFICATION SECTIONS 25 05 01 - BAS GENERAL REQUIREMENTS AND 25 05 01a - BAS SEQUENCE OF OPERATIONS, AND AS NOTED THROUGHOUT THE DRAWINGS.
2. IN GENERAL, THE BAS SYSTEM WILL PROVIDE CONTROLS INTEGRATION FOR THE FOLLOWING:
   - ALL NEW EQUIPMENT PROVIDED AND/OR REPLACED IN THIS PROJECT
   - EXISTING MECHANICAL EQUIPMENT CURRENTLY CONTROLLED BY THE EXISTING BAS.
   - EXISTING EV COOLING UNITS TO ENABLE COORDINATION BETWEEN HEATING AND COOLING SETPOINTS.
3. PROVIDE ALL NEW BAS THERMOSTATS, SENSORS, ETC. COMPLETE WITH IN-WALL ROUGH-INS FOR CONCEALED INSTALLATION. REUSE EXISTING BACK BOXES, CONDUIT, AND WIRING WHERE POSSIBLE.
4. REVIEW MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR SCOPE BY THIS DIVISION. THERE ARE CONTROLS DETAILS THAT ARE MOST APPROPRIATELY SHOWN ON THE DETAILS OF OTHER DIVISIONS
5. ALL LINE VOLTAGE POWER WIRING BY ELECTRICAL CONTRACTOR, ALL LOW VOLTAGE CONTROL, CONDUITS, BOXES, NETWORK WIRING (INCLUDING REQUIRED PATHWAYS), INTERLOCK AND SAFETY WIRING IS BY THIS DIVISION. BE SURE TO REVIEW FINAL SHOP DRAWINGS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR DEVICES PROVIDED AS PART OF OTHER MECHANICAL DIVISION'S SUPPLY (IE: ALARMS CONTROL PANEL INTERLOCKS ETC...)
6. DIVISION 25 TO SUPPLY ALL NECESSARY ACCESS DOORS FOR MECHANICAL CONTROLS EQUIPMENT. TURN OVER TO DIVISION 9 FOR INSTALLATION
7. DIV 25 TO PROVIDE ALL THERMOWELLS FOR INSTALLATION OF CONTROLS DEVICES IN PIPING OR DUCTWORK. TURN OVER TO THE APPROPRIATE MECHANICAL TRADE FOR INSTALLATION.
8. DIV 25 TO COORDINATE SENSOR PLACEMENT LOCATION WITH ASSOCIATED TRADES TO ALLOW FOR INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH SENSOR RECOMMENDED INSTALLATION REQUIREMENTS.
9. EACH CONTROL CABINET LOCATION SHALL INCLUDE A SELF CONTAINED UPS UNIT TO PROVIDE BACKUP POWER TO THE CPU AND COMPONENTS FOR A MINIMUM OF ONE HOUR.
10. LOCATE THE BAS CONTROL PANELS IN THE BUILDINGS MAIN BOILER ROOM. COORDINATE ALL BAS POWER REQUIREMENTS WITH DIV. 26.
11. PROVIDE SURGE SUPPRESSION MODULES FOR EACH BAS CONTROLLER
12. DIV. 25 CONTROLLERS DESIGN TO ALLOW 15% SPARE CAPACITY INPUTS/OUTPUTS FOR FUTURE EQUIPMENT.
13. REFER TO DIV. 25 SPECIFICATIONS FOR FURTHER INFORMATION REGARDING THIS EQUIPMENT.
14. PROVIDE POWER SUPPLIES AND TRANSFORMERS AS REQUIRED FOR TRANSMITTERS, SENSORS SUPPLIED BY OR CONNECTED TO BY THIS DIVISION
15. ALL MOTORIZED DAMPERS AND VALVES ARE PROVIDED BY DIV. 25 COORDINATE WITH MECHANICAL TRADE FOR SIZES, LOCATIONS, QUANTITIES.
16. ALL CONTROLLER /ACTUATORS FOR VOLUME BOXES ARE PROVIDED BY DIV 25. COORDINATE WITH MECHANICAL TRADE FOR SIZES, LOCATIONS, QUANTITIES.
17. ALL ACTUATORS ARE PROVIDED BY DIV 25, TURN OVER TO MECHANICAL DIVISIONS FOR INSTALLATION
18. CONTROL VALVE SIGNALS SHALL BE 2-10V OR 4-20mA, FLOATING SIGNALS ARE NOT ACCEPTABLE. PROVIDE END SWITCH VERIFICATION WHERE REQUIRED AND INDICATED

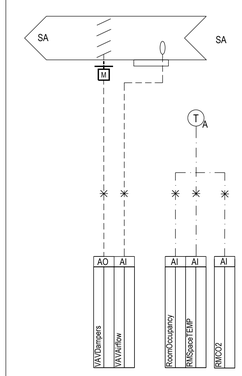
LEGEND - CONTROLS

SYMBOL	DESCRIPTION
RH / H	HUMIDITY SENSOR
CO2	CARBON DIOXIDE SENSOR
A	ALARM CONTACT
M	MOTORIZED DAMPER
P	DIFFERENTIAL / STATIC PRESSURE
OCC	OCCUPANCY SENSOR
AF	AIR FLOW
FS	FLOW SWITCH
M	MOTORIZED CONTROL VALVE
FM	FLOW METER
CO	CARBON MONOXIDE DETECTOR
	CONTROL LINE

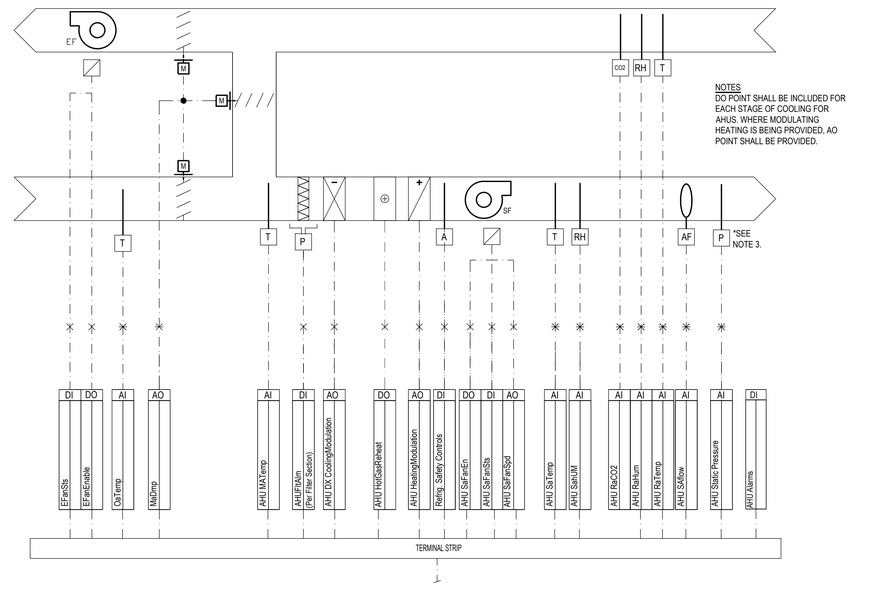


NOTES:
1. PROVIDE AND COORDINATE LOCATION OF NEW OAT/OARH SENSORS WITH DCC REPRESENTATIVE PRIOR TO INSTALLATION

OUTSIDE AIR SENSORS



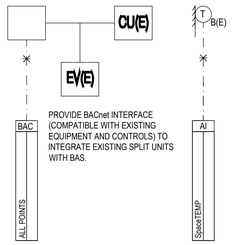
TYP. VOLUME BOX



NOTES

1. AHU SHALL BE PROVIDED BY THE VENDOR COMPLETE WITH ALL SENSORS NOTED AND FACTORY WIRED BACK TO A TERMINAL STRIP WITHIN THE AHU.
2. DIV. 25 TO PROVIDE A UNIT CONTROLLER AND ALL WIRING FROM TERMINAL STRIP TO CONTROLLER AND BAS.
3. DIV. 25 TO PROVIDE AND FIELD MOUNT STATIC PRESSURE SENSOR IN STRAIGHT SECTION OF DUCTWORK AT LEAST 10'-20' AWAY FROM UNIT IN STRAIGHT SECTIONS OF DUCTWORK. PROVIDE WIRING BACK TO TERMINAL STRIP AND UNIT
4. AHU'S SHALL BE COMPLETE WITH ALL INTERNAL REQUIRED SAFETIES FOR GAS AND COOLING SYSTEM INCLUDING CERTIFIED SAFETY CONTROLS FOR THE AL2 REFRIGERANTS. PROVIDE ALARM BACK TO BAS TO ENSURE COORDINATION AND ENABLING OF FULL SYSTEM VENTILATION.
5. CONTROL POWER FOR VOLUME GAUGES AND FILTER GAUGES BY DIV. 25
6. GAUGES ARE SUPPLIED AND INSTALLED BY EQUIPMENT VENDOR

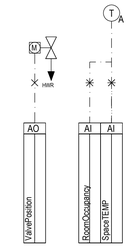
PACKAGED HVAC UNIT: TYPICAL (AHU-1-6)



PROVIDE BACnet INTERFACE (COMPATIBLE WITH EXISTING EQUIPMENT AND CONTROLS) TO INTEGRATE EXISTING SPLIT UNITS WITH BAS.

NOTES:
1. DIV. 25 CONTRACTOR TO REVIEW EXISTING EV INSTALLATION AND PROVIDE NEW WIRING AND CONTROLS TO INTEGRATE THE UNITS INTO THE BAS SYSTEM TO ALLOW ENABLE/DISABLE AND SETPOINT ADJUSTMENTS TO COORDINATE WITH NEW TYPE T_A THERMOSTATS FOR RADS AND VOLUME BOXES WITHIN THE SAME ZONE.

TYPICAL EXISTING SPLIT COOLING UNITS



NOTES:
1. WHERE A RADIATOR AND VOLUME BOX ARE IN THE SAME ROOM, ONE THERMOSTAT SHALL CONTROL BOTH THE RADIATOR AND VOLUME BOX.
2. WHERE AN EXISTING EV IS IN THE SAME ROOM, REFER TO TYPICAL EXISTING SPLIT COOLING UNIT SCHEMATIC NOTES FOR INTEGRATION TO COORDINATE SETPOINTS AND AVOID OVERLAPPING HEATING AND COOLING OPERATION.

TYP. RADIATOR

THERMOSTAT SCHEDULE

TAG	DESCRIPTION
T_A	SPACE TEMPERATURE SENSOR WITH ELECTRONIC PAPER DISPLAY, TWO DRY CONTACT INPUTS, 10 PROGRAMMABLE DISPLAY OBJECTS, OCCUPANCY SENSOR, AND CO2.
T_B	THERMOSTAT PROVIDED BY DIVISION 23 WITH ASSOCIATED MECHANICAL EQUIPMENT, INSTALLED AND CONNECTED TO BAS BY DIVISION 25.

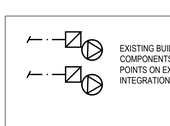
COORDINATE LOCATION OF AHU-7 THERMOSTAT ONSITE WITH DCC REPRESENTATIVE.

DIV. 25 TO PROVIDE SUFFICIENT QUANTITY OF OCCUPANCY SENSORS AS REQUIRED TO SUIT GYMNASIUM LAYOUT.

NOTES

1. AHU SHALL BE PROVIDED BY THE VENDOR COMPLETE WITH ALL SENSORS NOTED AND FACTORY WIRED BACK TO A TERMINAL STRIP WITHIN THE AHU.
2. DIV. 25 TO PROVIDE A UNIT CONTROLLER AND ALL WIRING FROM TERMINAL STRIP TO CONTROLLER AND BAS.
3. DIV. 25 TO PROVIDE AND FIELD MOUNT STATIC PRESSURE SENSOR IN STRAIGHT SECTION OF DUCTWORK AT LEAST 10'-20' AWAY FROM UNIT IN STRAIGHT SECTIONS OF DUCTWORK. PROVIDE WIRING BACK TO TERMINAL STRIP AND UNIT
4. AHU'S SHALL BE COMPLETE WITH ALL INTERNAL REQUIRED SAFETIES FOR COOLING SYSTEM INCLUDING CERTIFIED SAFETY CONTROLS FOR THE AL2 REFRIGERANTS. PROVIDE ALARM BACK TO BAS TO ENSURE COORDINATION AND ENABLING OF FULL SYSTEM VENTILATION.
5. CONTROL POWER FOR VOLUME GAUGES AND FILTER GAUGES BY DIV. 25
6. GAUGES ARE SUPPLIED AND INSTALLED BY EQUIPMENT VENDOR

AIR HANDLING UNIT - AHU-7



EXISTING BUILDING CIRCULATION PUMPS. PROVIDE ALL NECESSARY COMPONENTS AND WIRING FOR INTEGRATION WITH NEW BAS. POINTS ON EXISTING CONTROLS SYSTEM REQUIRED FOR INTEGRATION HAVE BEEN SHOWN IN THE TABLE BELOW.

EXISTING INPUTS	
OBJECT ID	NAME
BI1	HR26_HW_Pump1_Stat
BI2	HR26_HW_Pump2_Stat
BI3	HR26_HW_Pump7_Stat
BI4	HR26_HW_Pump8_Stat

EXISTING OUTPUTS	
OBJECT ID	NAME
BO1	HR26_HW_Pump1_Con
BO2	HR26_HW_Pump2_Con
BO3	HR26_HW_Pump7_Con
BO4	HR26_HW_Pump8_Con

IN ADDITION TO THE ABOVE INPUTS AND OUTPUTS FROM THE EXISTING SYSTEM, THE FOLLOWING POINTS SHALL BE ADDED TO THE BAS.
INPUTS
- PUMP 1 SPEED
- PUMP 2 SPEED

EXISTING BUILDING CIRCULATION PUMPS

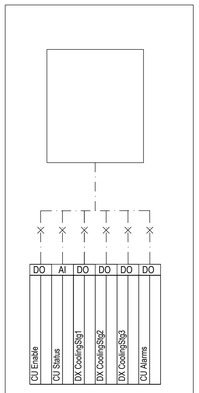
EXISTING POINTS FOR BOILER ROOM INCLUDING BOILER CONTROL, HOW WATER TEMPERATURE, CO DETECTION, ETC. ARE REQUIRED TO BE INTEGRATED WITH THE NEW BAS. THESE POINTS ARE SHOWN IN THE TABLES BELOW. PROVIDE ALL NECESSARY COMPONENTS AND WIRING TO ENABLE INTEGRATION.

EXISTING INPUTS	
OBJECT ID	NAME
AI1	FHR26_OAT
AI4	FHR26_HTG_SWT
AI6	FHR26_HTG_RWT
AI9	FHR26_CO_Detector
BI2	FHR26_HTG_PU1S
BI3	FHR26_BLR_S
BI8	FHR26_HTG_PU2S

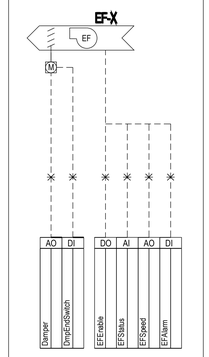
EXISTING OUTPUTS	
OBJECT ID	NAME
AO4	FHR26_BLR_MOD
BO1	FHR26_HTG_PU1C
BO2	FHR26_HTG_PU2C
BO3	FHR26_BLR_C

IN ADDITION TO THE EXISTING CONTROLS POINTS IN THE TABLES ABOVE, THE CONTRACTOR SHALL PROVIDE ALL NECESSARY ADDITIONAL POINTS TO ACHIEVE THE SEQUENCE OF OPERATIONS OUTLINED IN SPECIFICATION 25 05 01a.

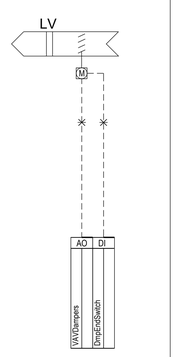
EXISTING BOILER ROOM



AHU-7 CONDENSING UNIT

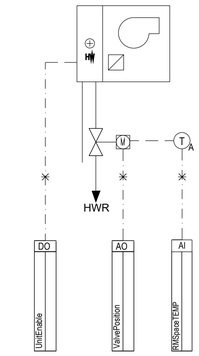


TYPICAL EXHAUST DETAIL



NOTE
IN THE GYMNASIUM, NEW MOTORIZED DAMPERS AND ACTUATORS SHALL BE PROVIDED ON ALL EXTERIOR LOUVERS.

TYP. LOUVER DETAIL



NOTE
DIV. 25 TO PROVIDE LINE VOLTAGE RELAYS FOR FFH & CUH UNIT ENABLE / DISABLE

TYP. EXISTING FFH & CUH UNITS

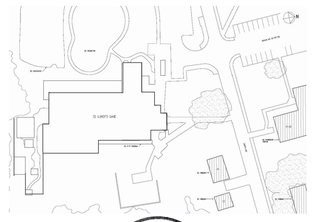
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ÉCHELLE | SCALE

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE: Mécanique | Mechanical
DATE: 2026/06/23

SUJET | SUBJECT
CONTROLS SCHEMATICS

PRODUCTION	REVU	REVIEWED
ÉTUDIÉ | DESIGNED LR	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN LR	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED LR / JB	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.: N.700114.23.01.01
NO. DP | PF NO.: 500540682
NO. DESSIN | DWG. NO.: L-B35-8900 - 414

Canada

Dernière mise à jour du fichier 2012-04-01

2026/Jun/23, 6:11pm lstubinsky H:\2022 Projects\22560 DCC HVAC\01 A DWGs\5 CADs\03 Mechanical\01 Drawing Sheets Mechanical\414 - Controls Schematics.dwg

ELECTRICAL LEGEND

Switches and Receptacles

	DUPLEX RECEPTACLE - TAMPER RESISTANT
WP	DUPLEX RECEPTACLE - OUTDOOR WEATHERPROOF
	ELECTRICAL MOTOR
	DIRECT POWER CONNECTION
	DISCONNECT
	FUSED DISCONNECT
J	JUNCTION BOX

Electrical Abbreviations

N.I.C.	NOT IN CONTRACT
A.F.F.	ABOVE FINISHED FLOOR
A.C.	ABOVE COUNTER
B.C.	BELOW CEILING
U/S	UNDERSIDE
EX	EXISTING TO REMAIN
ER	EXISTING TO BE REMOVED
EP	EXISTING TO BE REPLACED
EI	EXISTING TO BE REMOVED-REINSTALL IN SAME LOCATION
EL	EXISTING TO BE REMOVED AND REINSTALLED ELSEWHERE

Circuit Designation

PP A - 22/24/26

- CIRCUIT NUMBER
- AREA (A/B/C) (IF APPLICABLE)
- TYPE: H?(347/600V)/RP or L(P(POWER) /EM (EMERGENCY SOURCE)

Life Safety

FACP	FIRE ALARM PANEL
2D	DUCT-TYPE SMOKE DETECTOR

Electrical Panels

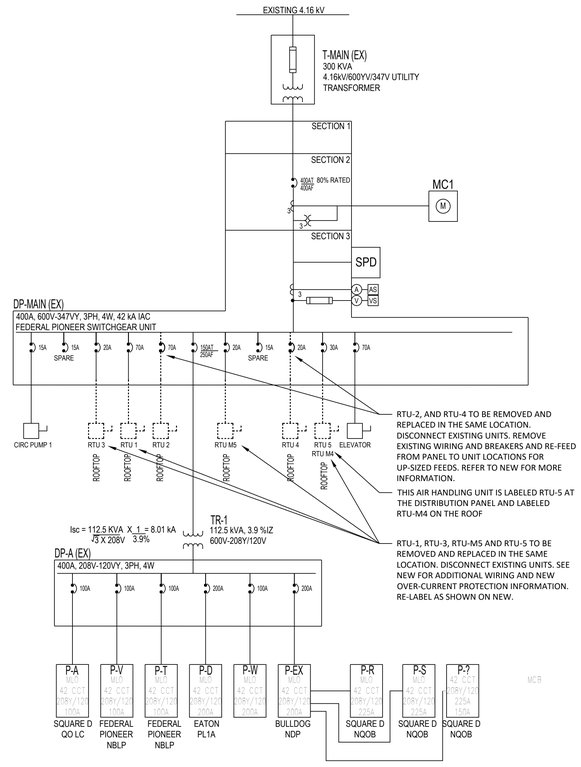
	SURFACE MOUNT LIGHTING PANEL
	RECESSED LIGHTING PANEL
	TRANSFORMER (SIZE/TYPE AS NOTED)
EQUIPMENT TAG	SPECIALTY ELECTRICAL EQUIPMENT

ELECTRICAL EQUIPMENT SCHEDULE

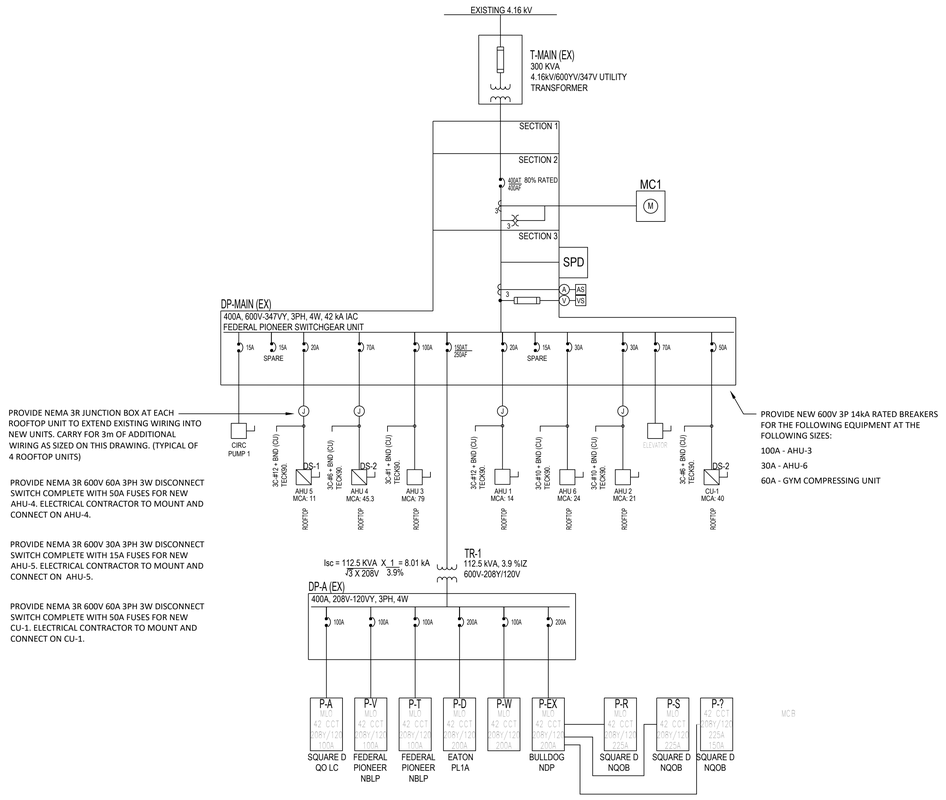
Tag	Description	Manufacturer	Catalogue No.	Quantity
	Power & Wiring Devices			
DS-1	DISCONNECT SWITCH - REFER TO SPECFICIATION SECTION 26 28 23 2.1.9.	-	-	AS REQ'D
DS-2	DISCONNECT SWITCH - REFER TO SPECFICIATION SECTION 26 28 23 2.1.10.	-	-	AS REQ'D
	Fire Alarm			
2D	DUCT TYPE SMOKE DETECTOR - REFER TO SPECIFICATION SECTION 28 46 00 2.5.	-	-	AS REQ'D

MECHANICAL EQUIPMENT NOTES: (APPLICABLE FOR ALL DRAWINGS)

1. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF MECHANICAL EQUIPMENT INCLUDING LINE VOLTAGE CONNECTORS AND STARTERS PRIOR TO ROUGHING-IN.
2. LINE VOLTAGE THERMOSTATS IF REQUIRED SHALL BE SUPPLIED BY MECHANICAL, STARTERS SUPPLIED BY DIV. 26, ALL INSTALLED AND WIRED BY DIV. 26.
3. EXACT LOCATIONS OF MECHANICAL EQUIPMENT SHALL BE ACCORDING TO MECHANICAL DRAWINGS. CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLATION.
4. VERIFY WITH MECHANICAL CONTRACTOR AND MECHANICAL SHOP DRAWINGS POWER REQUIREMENTS FOR THEIR EQUIPMENT PRIOR TO PREPARING FOR AND ORDERING MATERIAL FOR ROUGH-IN INSTALLATION.
5. REFER TO MECHANICAL DRAWINGS FOR ALL MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR RESPONSIBLE FOR INSTALLATION OF THE EQUIPMENT PRIOR TO PROCEEDING WITH ROUGH-IN. PLEASE REFER TO THE MECHANICAL DRAWINGS FOR LOCATIONS OF MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.



ELECTRICAL DISTRIBUTION SYSTEM - SINGLE LINE DIAGRAM - EXISTING



ELECTRICAL DISTRIBUTION SYSTEM - SINGLE LINE DIAGRAM - NEW

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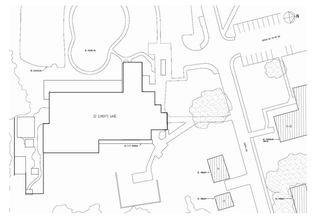
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ÉCHELLE | SCALE

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE: Électrique | Electrical
DATE: 2026/06/23

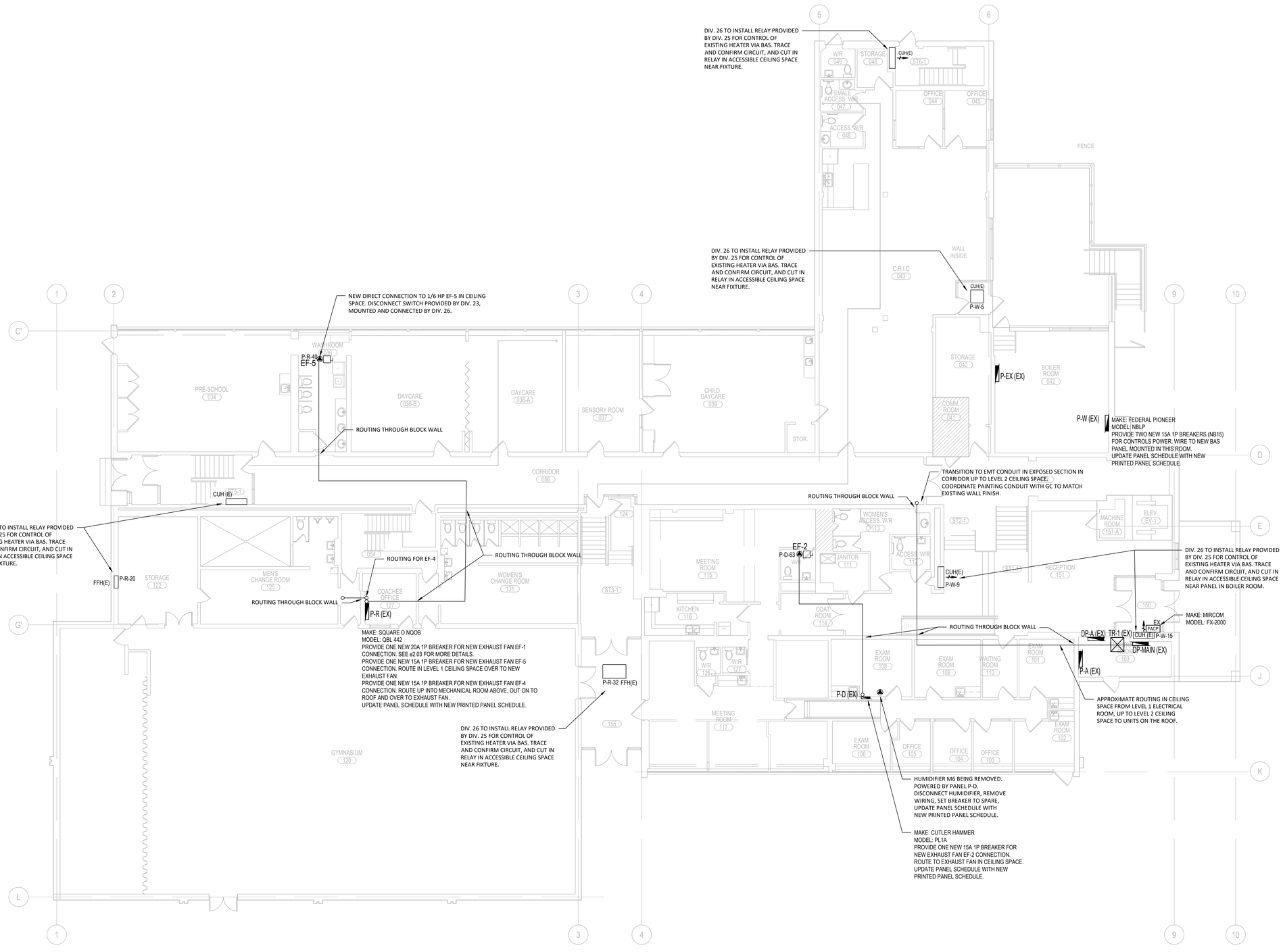
SUJET | SUBJECT
ELECTRICAL LEGEND, SINGLE LINE DIAGRAM

PRODUCTION	REVU	REVIEWED
ÉTUDIÉ	DESIGNED: NF	O ING | ENG O
DESSINÉ	DRAWN: NF	CLIENT | CUSTOMER
VÉRIFIÉ	CHECKED: NF	CMDT CSG | SECT OC
COORDINATION		
AGENT CONC | DES O		
GEST PROJ | PROJ MGR		
GEST CONC | DES MGR		
INCENDIE | FIRE		

NO. OTP | WBS NO.: N.700114.23.01.01
NO. DP | PF NO.: 500540682
NO. DESSIN | DWG. NO.: L-B35-8900 - 501

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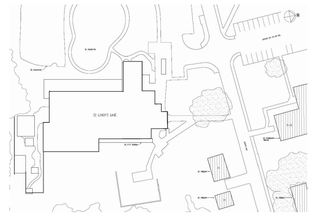
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N. T. FRYN
100515208
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ÉCHELLE | SCALE
1:100

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE
Électrique | Electrical

DATE
2026/06/23

SUJET | SUBJECT
ELECTRICAL PLAN - LEVEL 1 - EXISTING/NEW

PRODUCTION	REVU	REVIEWED	
ÉTUDIÉ	DESIGNED	O ING | ENG O	AGENT CONC | DES O
NF			
DESSINÉ | DRAWN	CLIENT | CUSTOMER		GEST PROJ | PROJ MGR
NF			
VÉRIFIÉ | CHECKED	CMDT CSG | SECT OC		GEST CONC | DES MGR
NF			
COORDINATION			INCENDIE | FIRE

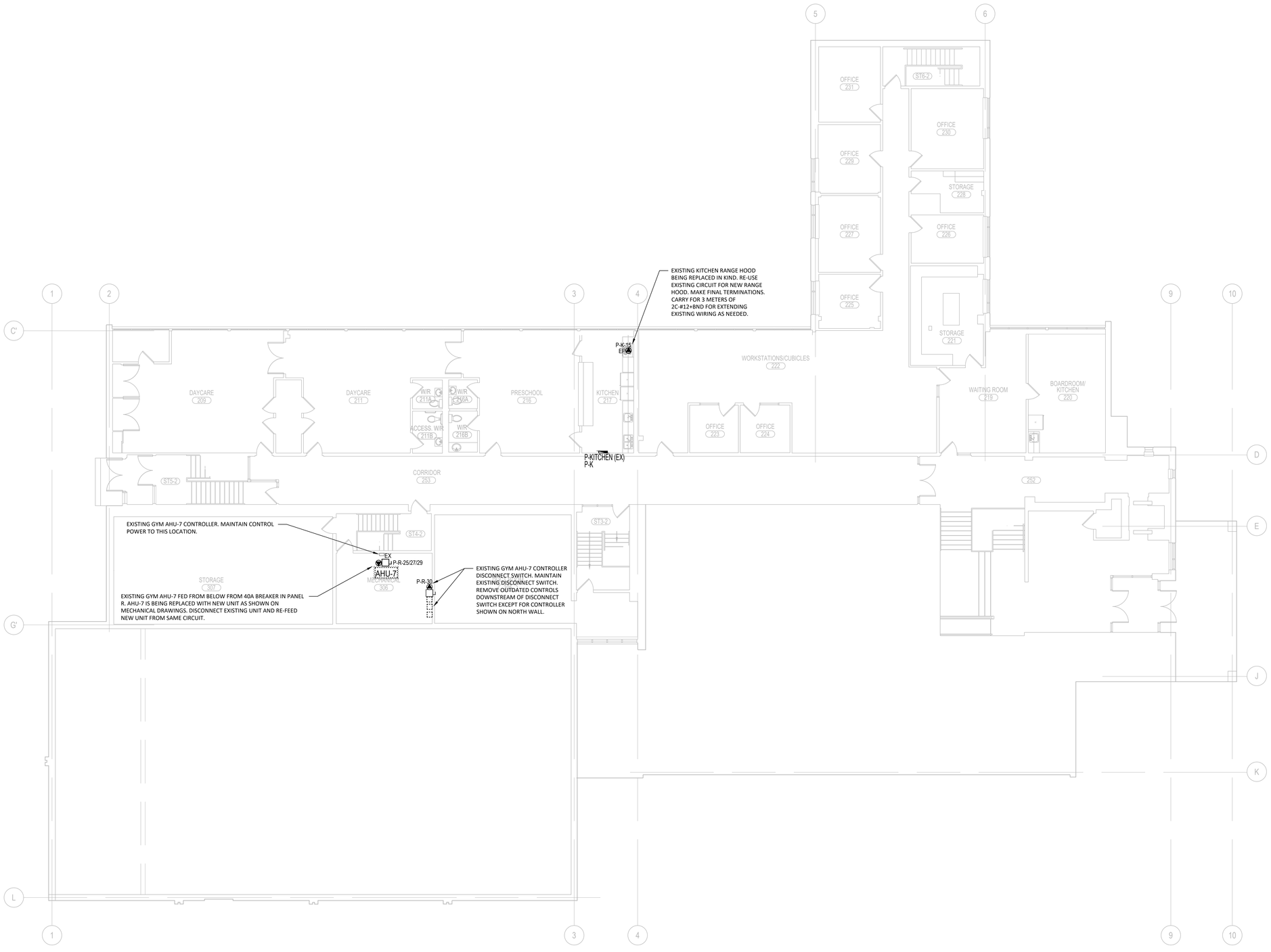
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N.700114.23.01.01

NO. DP | PF NO.
500540682

NO. DESSIN | DWG. NO.
L-B35-8900 - 502

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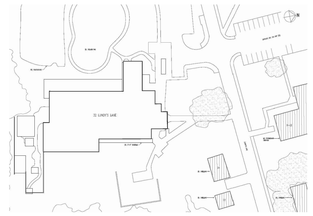
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ÉCHELLE | SCALE
1:100

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE
Électrique | Electrical

DATE
2026/06/23

SUJET | SUBJECT
ELECTRICAL PLAN - LEVEL 2 - EXISTING

PRODUCTION	REVU	REVIEWED	
ÉTUDIÉ | DESIGNED	O ING | ENG O		AGENT CONC | DES O
NF			
DESSINÉ | DRAWN	CLIENT | CUSTOMER		GEST PROJ | PROJ MGR
NF			
VÉRIFIÉ | CHECKED	CMDT CSG | SECT OC		GEST CONC | DES MGR
NF			
COORDINATION			INCENDIE | FIRE

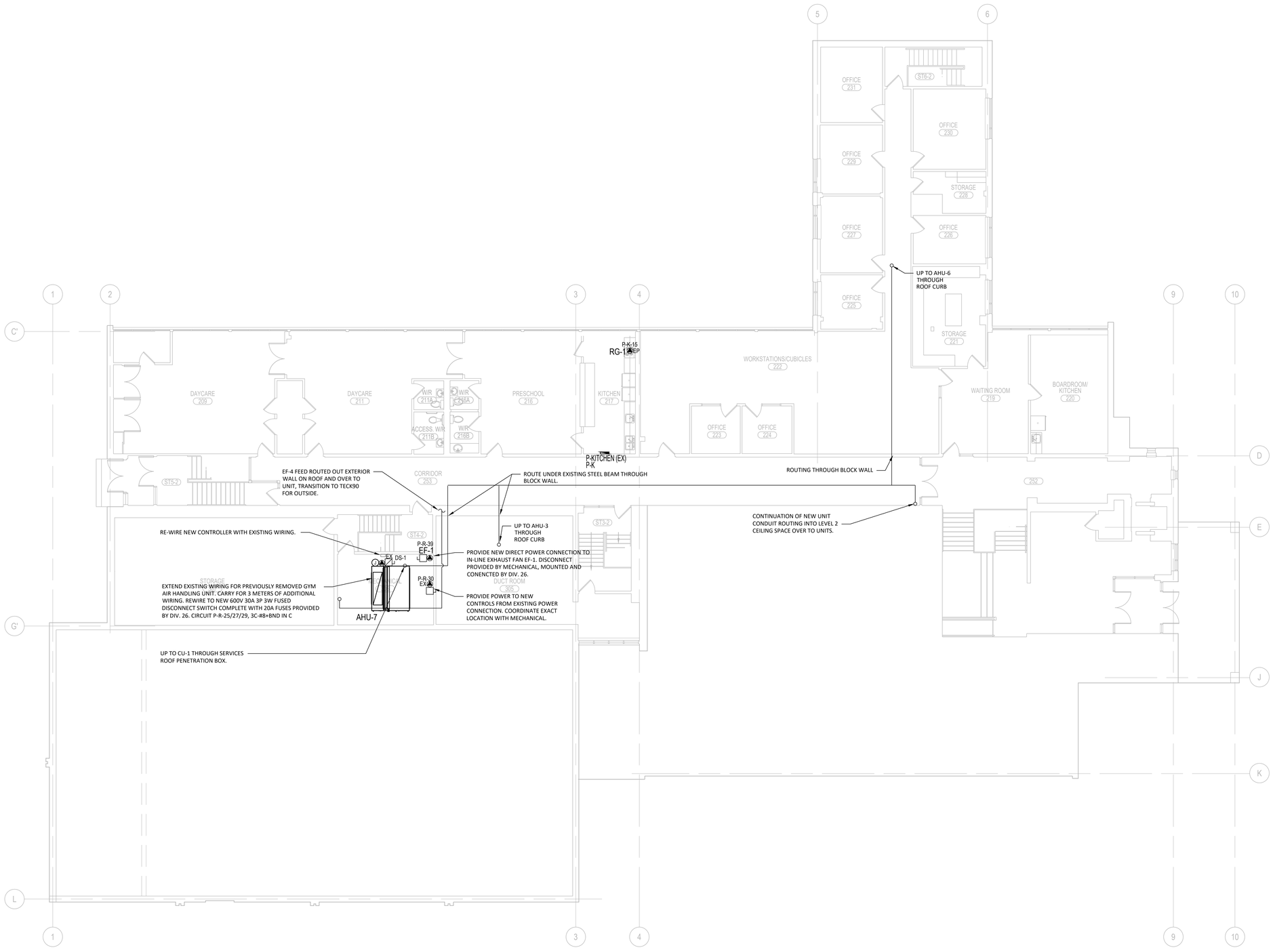
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NO. DP | PF NO.
500540682

NO. DESSIN | DWG. NO.
L-B35-8900 - 503

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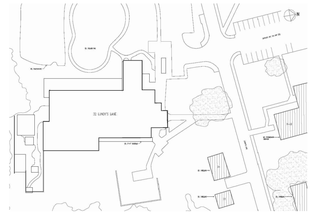
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ÉCHELLE | SCALE
1:100

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE
Électrique | Electrical

DATE
2026/06/23

SUJET | SUBJECT
ELECTRICAL PLAN - LEVEL 2 - NEW

PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED NF	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN NF	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED NF	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.
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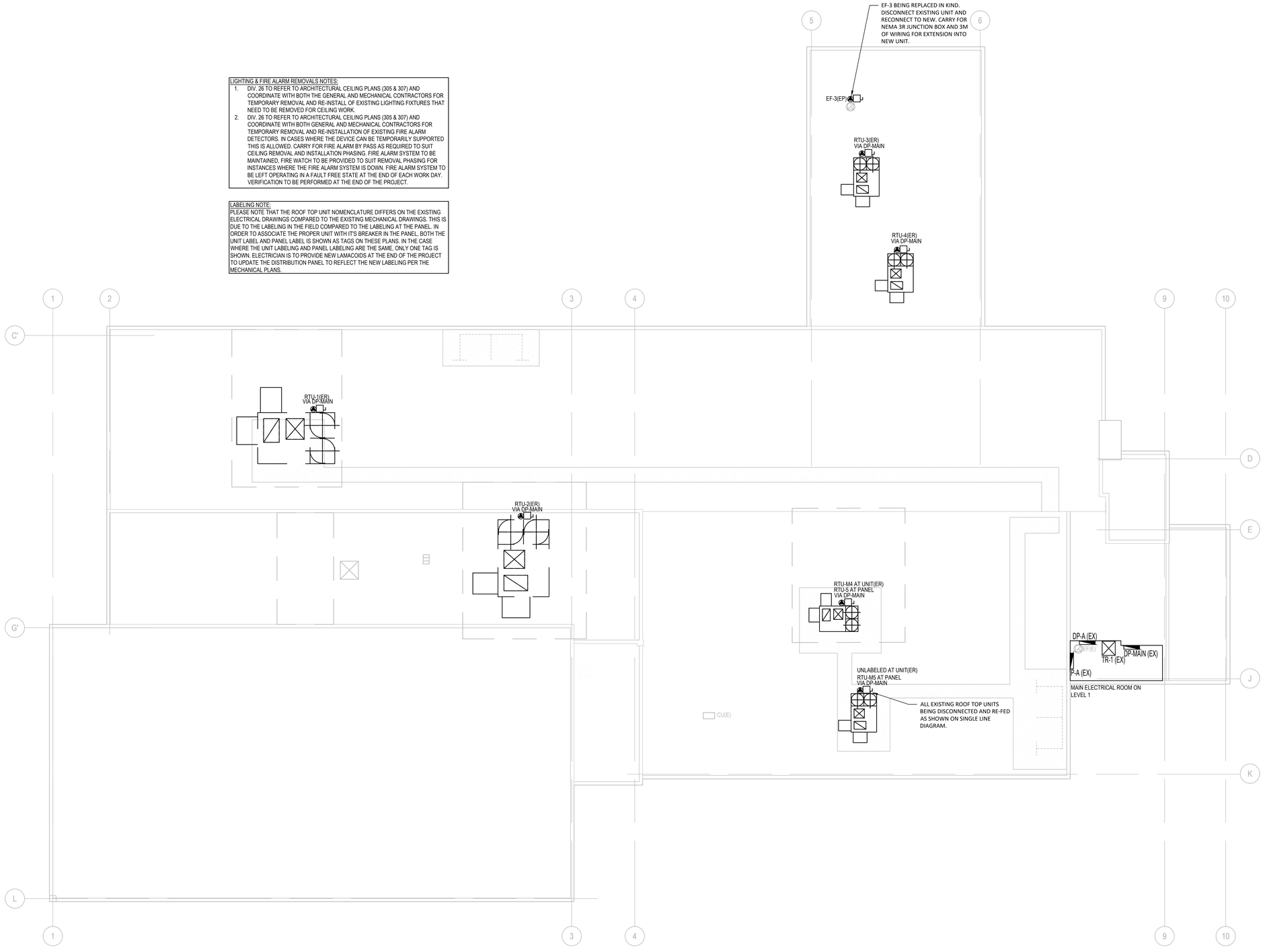
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LIGHTING & FIRE ALARM REMOVALS NOTES:

1. DIV. 26 TO REFER TO ARCHITECTURAL CEILING PLANS (305 & 307) AND COORDINATE WITH BOTH THE GENERAL AND MECHANICAL CONTRACTORS FOR TEMPORARY REMOVAL AND RE-INSTALL OF EXISTING LIGHTING FIXTURES THAT NEED TO BE REMOVED FOR CEILING WORK.
2. DIV. 26 TO REFER TO ARCHITECTURAL CEILING PLANS (305 & 307) AND COORDINATE WITH BOTH GENERAL AND MECHANICAL CONTRACTORS FOR TEMPORARY REMOVAL AND RE-INSTALLATION OF EXISTING FIRE ALARM DETECTORS. IN CASES WHERE THE DEVICE CAN BE TEMPORARILY SUPPORTED THIS IS ALLOWED. CARRY FOR FIRE ALARM BY PASS AS REQUIRED TO SUIT CEILING REMOVAL AND INSTALLATION PHASING. FIRE ALARM SYSTEM TO BE MAINTAINED, FIRE WATCH TO BE PROVIDED TO SUIT REMOVAL PHASING FOR INSTANCES WHERE THE FIRE ALARM SYSTEM IS DOWN. FIRE ALARM SYSTEM TO BE LEFT OPERATING IN A FAULT FREE STATE AT THE END OF EACH WORK DAY. VERIFICATION TO BE PERFORMED AT THE END OF THE PROJECT.

LABELING NOTE:
PLEASE NOTE THAT THE ROOF TOP UNIT NOMENCLATURE DIFFERS ON THE EXISTING ELECTRICAL DRAWINGS COMPARED TO THE EXISTING MECHANICAL DRAWINGS. THIS IS DUE TO THE LABELING IN THE FIELD COMPARED TO THE LABELING AT THE PANEL. IN ORDER TO ASSOCIATE THE PROPER UNIT WITH IT'S BREAKER IN THE PANEL, BOTH THE UNIT LABEL AND PANEL LABEL IS SHOWN AS TAGS ON THESE PLANS. IN THE CASE WHERE THE UNIT LABELING AND PANEL LABELING ARE THE SAME, ONLY ONE TAG IS SHOWN. ELECTRICIAN IS TO PROVIDE NEW LAMACOIDS AT THE END OF THE PROJECT TO UPDATE THE DISTRIBUTION PANEL TO REFLECT THE NEW LABELING PER THE MECHANICAL PLANS.



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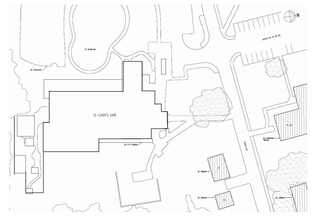
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100515208
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ÉCHELLE | SCALE
1:100

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE	DATE
Électrique | Electrical	2026/06/23

SUJET | SUBJECT
ELECTRICAL PLAN - ROOF - EXISTING

PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED NF	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN NF	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED NF	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

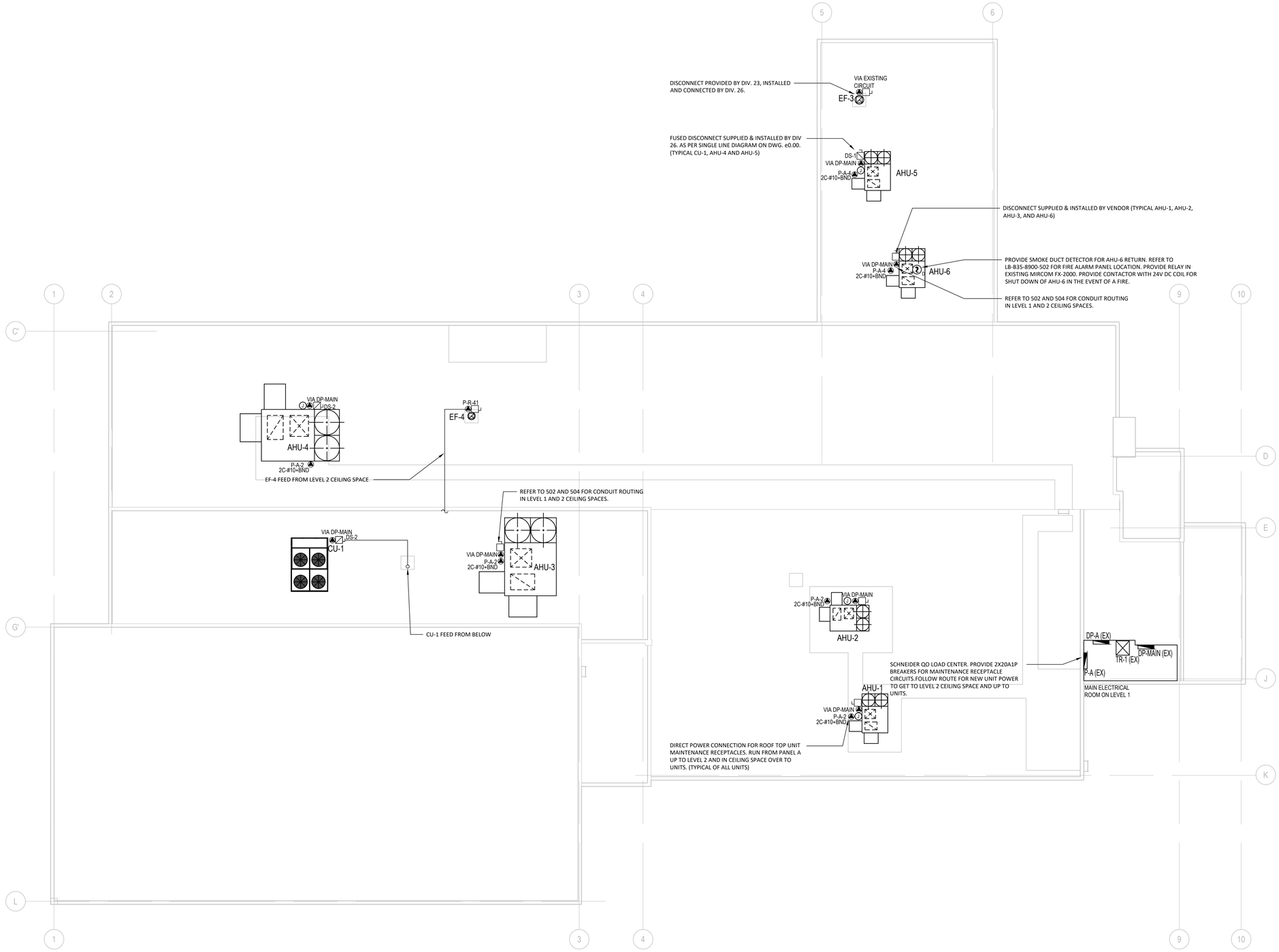
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L-B35-8900 -505

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Gouvernement du Canada | Government of Canada

NIVEAU DE SÉCURITÉ | LEVEL OF SECURITY

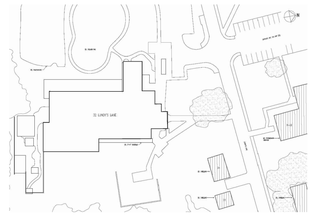
À ÊTRE RÉVISÉ | TO BE REVIEWED

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IDEA
INTEGRATED DESIGN ENGINEERING + ARCHITECTURE

200-310 Hunt Club Rd, Ottawa, ON. CAN.
Tele: (613) 728-0008 - Email: info@integrateddesign.ca



LICENSED PROFESSIONAL ENGINEER
2026-06-23
N. T. FRAYN
100515208
PROVINCE OF ONTARIO

NO.	DATE	REVISION	APPR.
E	2026/06/23	ISSUED FOR TENDER (R1)	
D	2025/11/21	ISSUED FOR TENDER	
C	2025/08/14	ISSUED FOR FINAL REVIEW	
B	2025/01/31	ISSUED FOR 99% REVIEW	
A	2024/05/15	ISSUED FOR 60% REVIEW	

ÉCHELLE | SCALE
1:100

EMPLACEMENT | LOCATION
32 Lundy's Lane
Kingston
ON

PROJET | PROJECT
HR26 HVAC UPGRADES
CFB KINGSTON

MÉTIER | TRADE
Électrique | Electrical

DATE
2026/06/23

SUJET | SUBJECT
ELECTRICAL PLAN - ROOF - NEW

PRODUCTION	REVU | REVIEWED	
ÉTUDIÉ | DESIGNED NF	O ING | ENG O	AGENT CONC | DES O
DESSINÉ | DRAWN NF	CLIENT | CUSTOMER	GEST PROJ | PROJ MGR
VÉRIFIÉ | CHECKED NF	CMDT CSG | SECT OC	GEST CONC | DES MGR
COORDINATION		INCENDIE | FIRE

NO. OTP | WBS NO.
N.700114.23.01.01

NO. DP | PF NO.
500540682

NO. DESSIN | DWG. NO.
L-B35-8900 - 506

Canada

Dernière mise à jour du fichier 2512-04-01