

REFER TO DRAWINGS M201, M202, M301, M302 & M401 FOR WORK IN THIS AREA

EXISTING FIRE HOSE & ACCESSORIES TO BE REMOVED COMPLETE IN AREAS WITH SPRINKLER COVERAGE. EXISTING CABINET & FIRE EXTINGUISHER TO REMAIN

GROUND FLOOR PLAN

KEY PLAN
SCALE: N.T.S.

GRILLE SCHEDULE

| Item | Type | Manufacturer & Model | Finish | Remarks |
|------|------------------------|----------------------|---------------|---|
| R1 | CEILING RETURN/EXHAUST | KRUEGER S580 | BRITISH WHITE | ALUMINUM, C/W SCREWED FASTENING, 1/2" BLADE SPACING, FIXED DEFLECTION |

FAN SCHEDULE

| Item | Type | Service | Capacity cfm | Exhaust Air Size hp | Data SP in. wc | Voltage | Manufacturer | Model | Remarks |
|------|-----------------------------|-----------------|--------------|---------------------|----------------|----------|--------------|---------|--|
| EF-6 | INLINE DUCT MOUNTED EXHAUST | GENERAL EXHAUST | 2000 | 1/2 | 0.50 | 120/1/60 | PENN BARRY | SX11501 | C/W VIBRATION ISOLATION HANGERS, FACTORY MOUNTED SPEED CONTROLLER, MOTOR GUARD. DVR BY BAS CONTRACTOR. |

MECHANICAL LEGEND

| Item | Description | Item | Description |
|------|---|------|--|
| | CUT EXISTING & CONNECT NEW PIPING | | FLOOR DRAIN |
| | FLOW DIRECTION | | TRAP PRIMER |
| | DOMESTIC COLD WATER PIPING | | TEE CONNECTION |
| | DOMESTIC HOT WATER PIPING | | PIPE DOWN |
| | DOMESTIC HOT WATER RECIRC. PIPING | | PIPE UP |
| | EXISTING SANITARY PIPING ABOVE FLOOR | | REDUCER/INCREASER |
| | EXISTING SANITARY PIPING BELOW FLOOR | | CHECK VALVE |
| | SANITARY PIPING ABOVE FLOOR | | FLOOR CLEANOUT |
| | SANITARY PIPING BELOW FLOOR | | PRESSURE GAUGE |
| | SPRINKLER PIPING | | THERMOMETER |
| | HEATING WATER SUPPLY PIPING | | THERMOSTAT (WITH OR WITHOUT GUARD)(CONCEALED SENSOR) |
| | HEATING WATER RETURN PIPING | | CARBON DIOXIDE (CO2) SENSOR (WITH OR WITHOUT GUARD) |
| | DIFFUSER/GRILLE SIZE (imp), TYPE & CAPACITY (cfm) | | ABOVE FINISHED FLOOR |
| | HYDRONIC HEATING SIZE, TYPE & CAPACITY | | ABOVE FINISHED ROOF |
| | UNION | | EXISTING DUCT (SIZE AS INDICATED) |
| | STRAINER | | TEMPERATURE CONTROL VALVE |
| | SCREWED OR WELDED PIPE CAP | | FIRE DAMPER |
| | BALL VALVE | | EXPANSION COMPENSATOR/JOINT |
| | GATE VALVE | | RETURN IN CABINET |
| | AIR VENT | | BALANCING VALVE |
| | RISER VALVE | | |

GENERAL NOTES

- ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PREPARED SPECIFICATION.
 - UPON COMPLETION OF THE PROJECT OR UPON COMPLETION OF EACH INDIVIDUAL PHASE OF THE PROJECT THE CONTRACTORS SHALL PROVIDE THE FOLLOWING CERTIFICATES BEFORE CONFORMANCE LETTERS ARE ISSUED BY THE CONSULTANT:
 - POTABLE WATER TEST (SEE SPEC 22.11.16 PART 3)
 - FIRE PROTECTION ENGINEER'S INSPECTION/CONFORMANCE LETTER
 - NFPA-13 SPRINKLER CONTRACTOR'S MATERIAL & TEST CERTIFICATE.
- ALL CERTIFICATES ARE TO BE SUBMITTED TOGETHER IN A SINGLE PACKAGE.

MECHANICAL | ELECTRICAL | AQUATIC

55 Northland Road, Waterloo, ON N2V 1Y8
 Phone: 549-725-3555
 Website: deiassociates.ca
 Project Number: 23305

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| No. | Issue | Date |
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| 1 | Issued for Permit/Tender | April 2, 2024 |
| 2 | Issued for Construction | May 10, 2024 |

project
WRDSB TAIT STREET PUBLIC SCHOOL CEILING RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

drawn
KEY PLAN, LEGEND & SCHEDULES

drawing scale
AS NOTED

ward99 project number
23013 - WRDSB TAIT ST CEILING

ward99 architects | drawing no.
M101

ward99 architects Inc.
7500 Highway 27, Unit 27B
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| PLUMBING FIXTURE SCHEDULE | | | | | | | | | | | | |
|---------------------------|--|------------------|-----|----|-------|-------|---|---|--|---|-------------------------------------|---|
| Item | Type | Connection Sizes | | | | | Fixture | | Trim | | Accessories | |
| | | HW | CW | TW | Drain | Vent | Acceptable Manufacturer | Fixture Description | Acceptable Manufacturer | Trim Description | Acceptable Manufacturer | Accessory Description |
| WC-1 | WATER CLOSET FLUSH VALVE (HANDS-FREE) | | 1 | | 3 | 1 1/2 | AMERICAN STANDARD MADERA 3461.001 KOHLER HIGHCREST ZURN | VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH. | DELTA 81T201-HWA MOEN COMMERCIAL SLOAN | EXPOSED, POLISHED CHROME PLATED, DIAPHRAGM TYPE FLUSH VALVE WITH 25MM (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, RECESSED WALL MOUNTED JUNCTION BOX, FLUSH CONNECTION & COUPLING FOR 40MM (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEINS, HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH. | SEAT: CENTOCO AM500STSCCSS BEMIS | SEAT: BLACK, ELONGATED, OPEN FRONT, LESS COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST. MIN. 1000 MAP PERFORMANCE. |
| WC-2 | BARRIER FREE WATER CLOSET FLUSH VALVE, 16" HIGH (HANDS-FREE) | | 25 | | 80 | 40 | AMERICAN STANDARD MADERA 3043.001 KOHLER HIGHCREST K-4302 ZURN | BARRIER FREE, 16" TALL TO RIM, VITREOUS CHINA, SIPHON JET, ELONGATED RIM, TOP SPUD FOR FLUSH VALVE, BOLT CAP, BOTTOM OUTLET, FLOOR-MOUNTED, 10" OR 12" ROUGH-IN, MIN 2" TRAP WAY, MAXIMUM 6 litres (1.6 gal) PER FLUSH. | DELTA 81T201-WMSHW MOEN COMMERCIAL SLOAN | EXPOSED, POLISHED CHROME PLATED, DIAPHRAGM TYPE FLUSH VALVE WITH 25MM (1") SCREWDRIVER ANGLE STOP, MOTORIZED ACTUATOR, AUTOMATIC SENSOR WITH MANUAL PUSH BUTTON OVERRIDE, VACUUM BREAKER ADJUSTABLE TAIL PIECE, AUTOMATIC 8 HR COURTESY FLUSH, RECESSED WALL MOUNTED SENSOR BOX, FLUSH CONNECTION & COUPLING FOR 40MM (1 1/2") TOP SPUD, WALL AND SPUD ESCUTCHEINS, HARDWIRED OPERATED POWER CONVERTOR, SENSOR BOX C/W COVER, VANDAL RESISTANT SCREWS, FLUSH CYCLE SET FOR 6.0 LITRES (1.6 GAL) PER FLUSH (NON-ADJUSTABLE). | SEAT: CENTOCO AM500STS BEMIS | SEAT: BLACK, ELONGATED, OPEN FRONT LESS COVER, MOLDED SOLID ANTIMICROBIAL PLASTIC, STAINLESS STEEL CHECK HINGES, STAINLESS STEEL OR SOLID BRASS INSERT POST. REFER TO ARCHITECTURAL DOCUMENTS FOR VERTICAL BACKREST. MIN. 1000 MAP PERFORMANCE. |
| U-1 | URINAL FLUSH VALVE, HANDS FREE | 3/4 | | | 2 | 1 1/2 | AMERICAN STANDARD WASHBROOK 6590.005 KOHLER BARDON K-4904-ET ZURN Z5750 | VITREOUS CHINA, WASHOUT TYPE, INTEGRAL FLUSHING RIM, EXTENDED SHIELDS, INTEGRAL TRAP, BACK OUTLET, WALL-MOUNTED, TOP SUPPLY SPUD, MIN 2" TRAP WAY, MAXIMUM 1.9 litres (0.5 gal) PER FLUSH. C/W FLOOR MOUNTED CARRIER | DELTA 81T231-WMSHW SLOAN 186 ES-S-0.5 MOEN COMMERCIAL | POLISHED CHROME PLATED VANDAL RESISTANT METAL COVER WITH HARDWIRED WALLMOUNTED SENSOR, RIGHT OR LEFT-HAND SUPPLY INSTALLATION, AUTOMATIC OPERATION HARDWIRED POWERED SENSOR, INFRARED SENSOR TO HAVE A RANGE ADJUSTMENT OF 305MM - 711MM (12" - 28") AND ELECTRONIC MANUAL OVERRIDE BUTTON. FLUSH CYCLE SET .9 LITRE (0.50 GAL) | | |
| WF-1 | B.F. WASH FOUNTAIN | 1/2 | 1/2 | | 1 | 1/2 | 1 1/4 | BRADLEY SENTRY SN2004-A-IR-STD-TMA-NSD-BS | BARRIER FREE SEMI-CIRCULAR STAINLESS STEEL BOWL. ALL EXPOSED COMPONENTS TO BE STAINLESS STEEL. SUITABLE FOR FOUR (4) USERS. STANDARD PEDESTAL HEIGHT. C/W BACKSPASH. TRIM: INFRARED CONTROLLED, AT EACH INDIVIDUAL USER, MOLDED SPRAYHEAD, STOP VALVES, HORIZONTAL SWING CHECK VALVES, THERMOSTATIC MIXING VALVE PRESET AT 40°C. NO SOAP DISPENSER. SUITABLE FOR 120 V/1/60 COMPLETE WITH CLASS II 120/24V PLUG IN TRANSFORMER. COLOUR BY ARCHITECT. | | | |
| FD-1 | FLOOR DRAIN | | | | NOTED | 1 | 1/2 | ZURN ZN415B MIFAB F1100-C CONTOUR C2000-R6 WATTS FD-100-C-A | GENERAL DUTY CAST IRON BODY, ADJUSTABLE HEAD, NICKEL BRONZE STRAINER, INTEGRAL SEEPAGE PAN, AND CLAMPING COLLAR. USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER | | | |



Consulting Engineers
MECHANICAL | ELECTRICAL | AQUATIC

55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 549-725-3555
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Project Number: 23305

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project
WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

drawing
SCHEDULES

drawing scale
AS NOTED

ward99 project number
23013 - WRDSB TAIT ST CEILINGS

ward99
architects

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416-613-9890 www.ward99architects.com

drawing no.

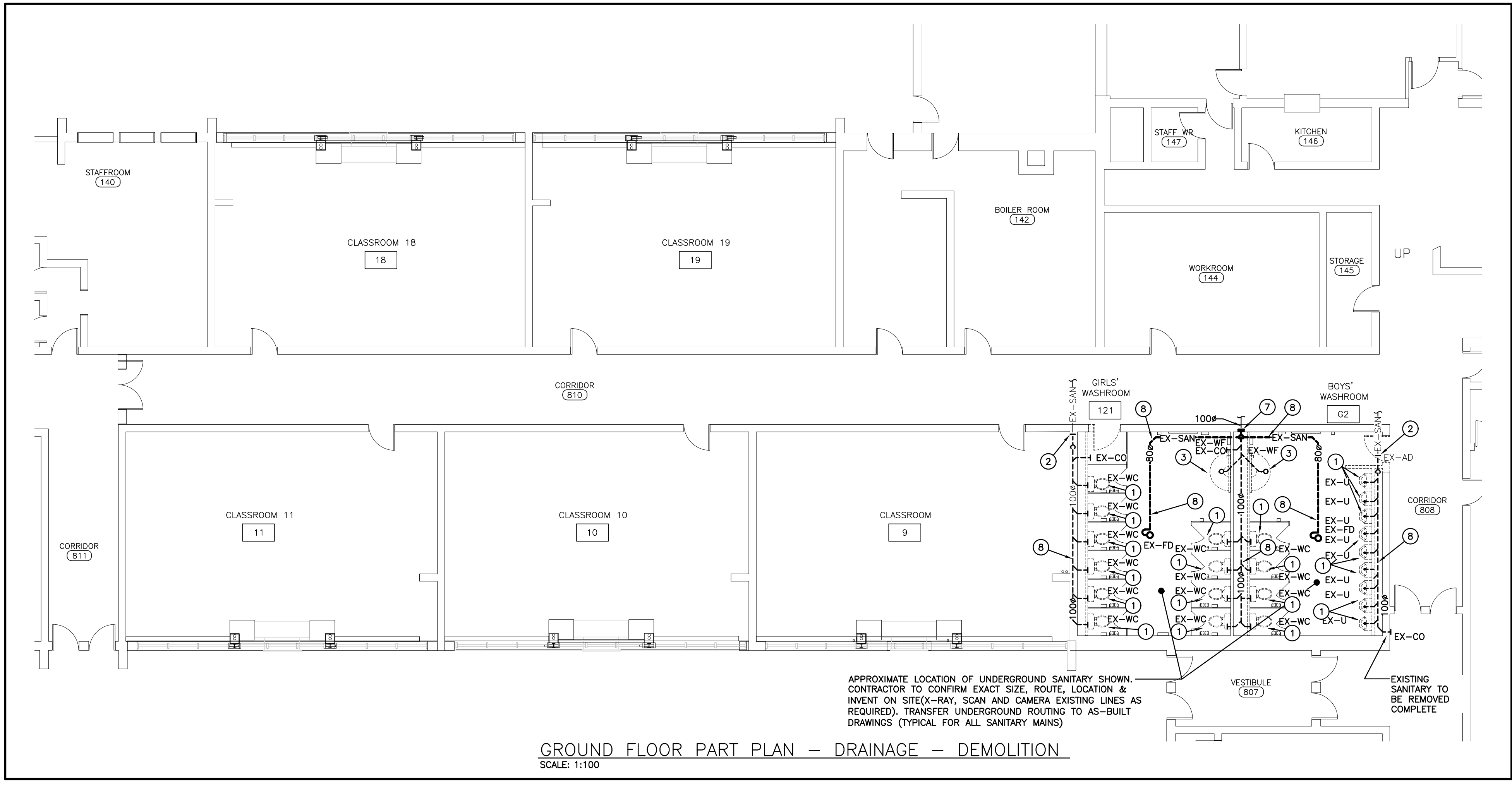
M102

GENERAL DEMOLITION NOTES

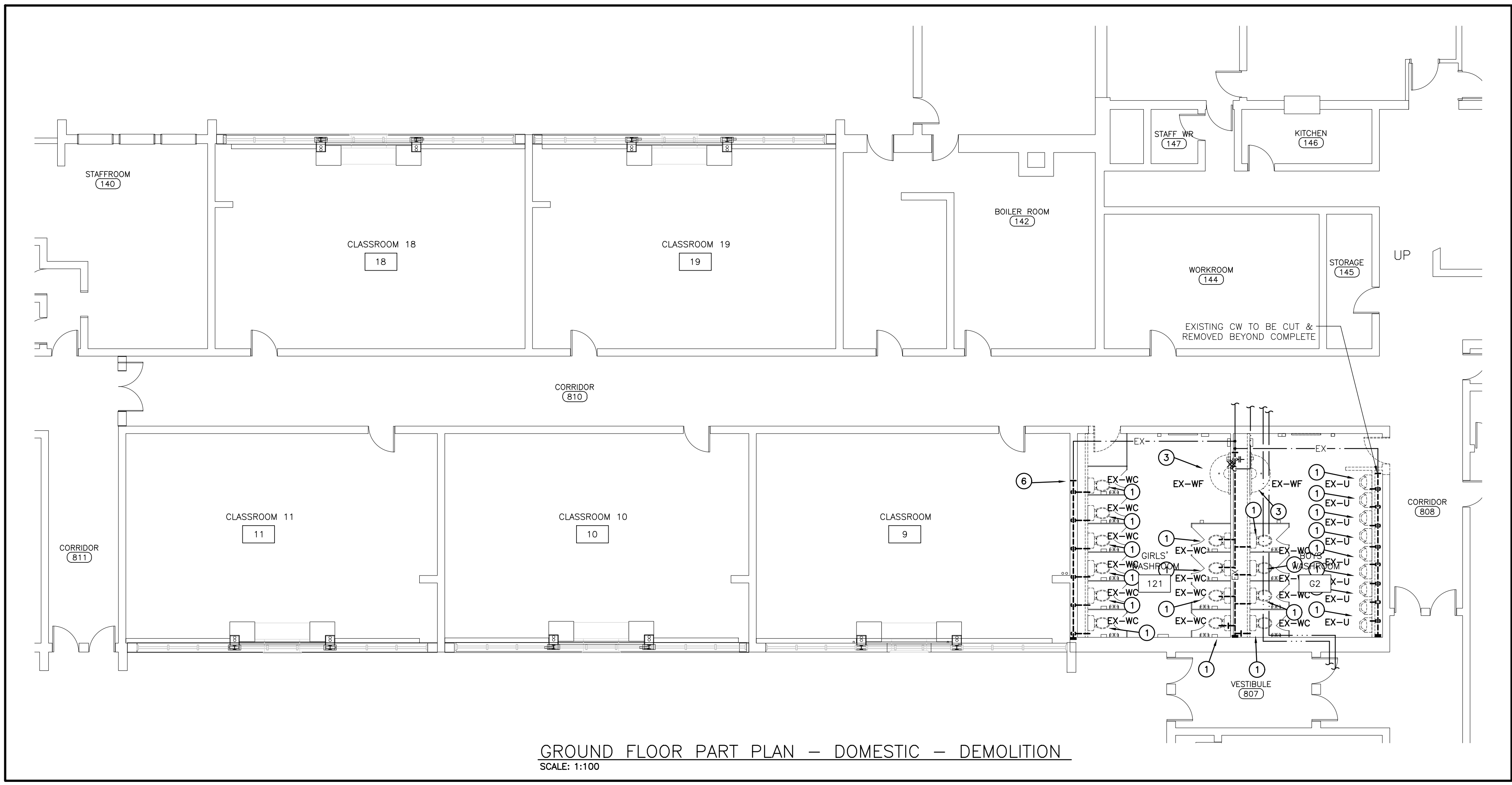
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SPECIFIC DEMOLITION NOTES

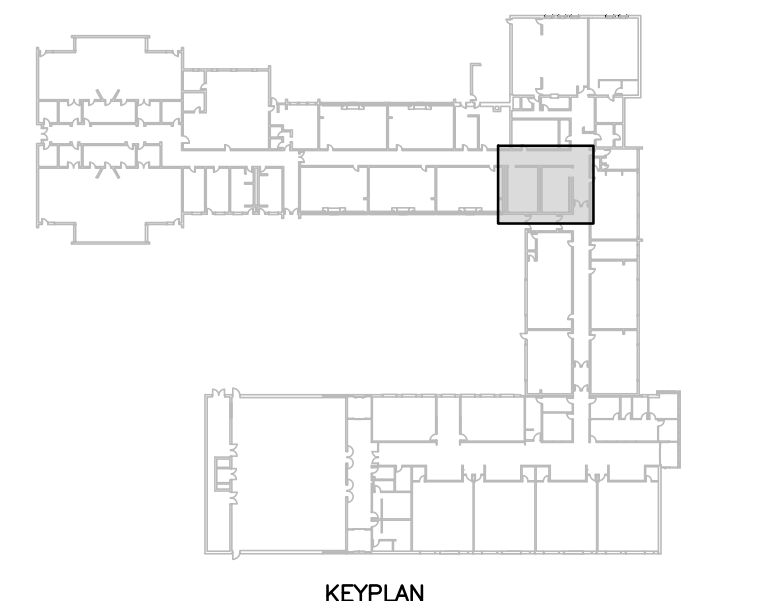
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GROUND FLOOR PART PLAN – DRAINAGE – DEMOLITION
SCALE: 1:100



GROUND FLOOR PART PLAN – DOMESTIC – DEMOLITION
SCALE: 1:100



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project
WRDSB TAIT STREET PUBLIC SCHOOL CEILINGS RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT STREET, CAMBRIDGE ON N1S 3G3

drawing
GROUND FLOOR PART PLANS - DEMOLITION - DRAINAGE & DOMESTIC

drawing scale
AS NOTED

ward99 project number
23013 - WRDSB TAIT ST CEILINGS

ward99 architects | drawing no. **M201**

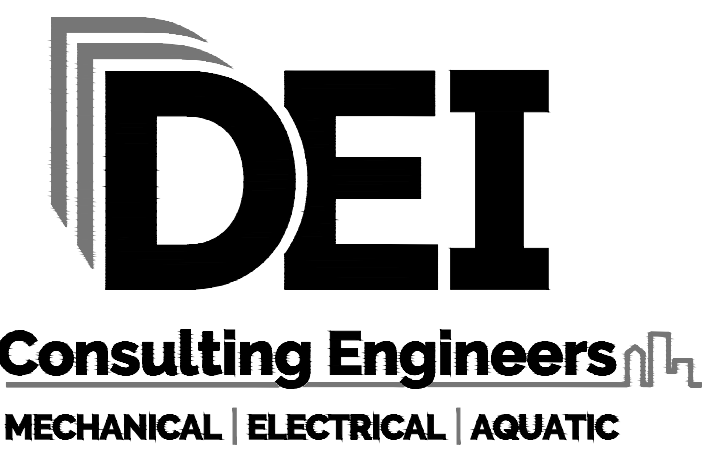
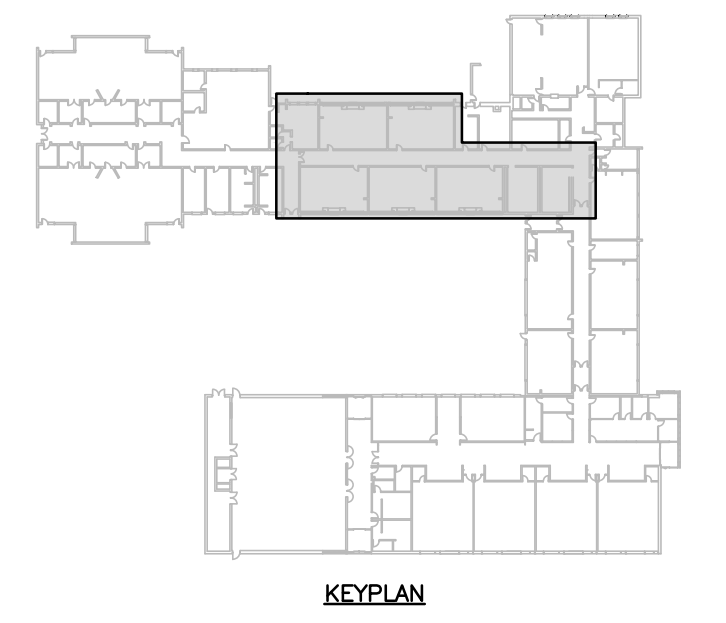
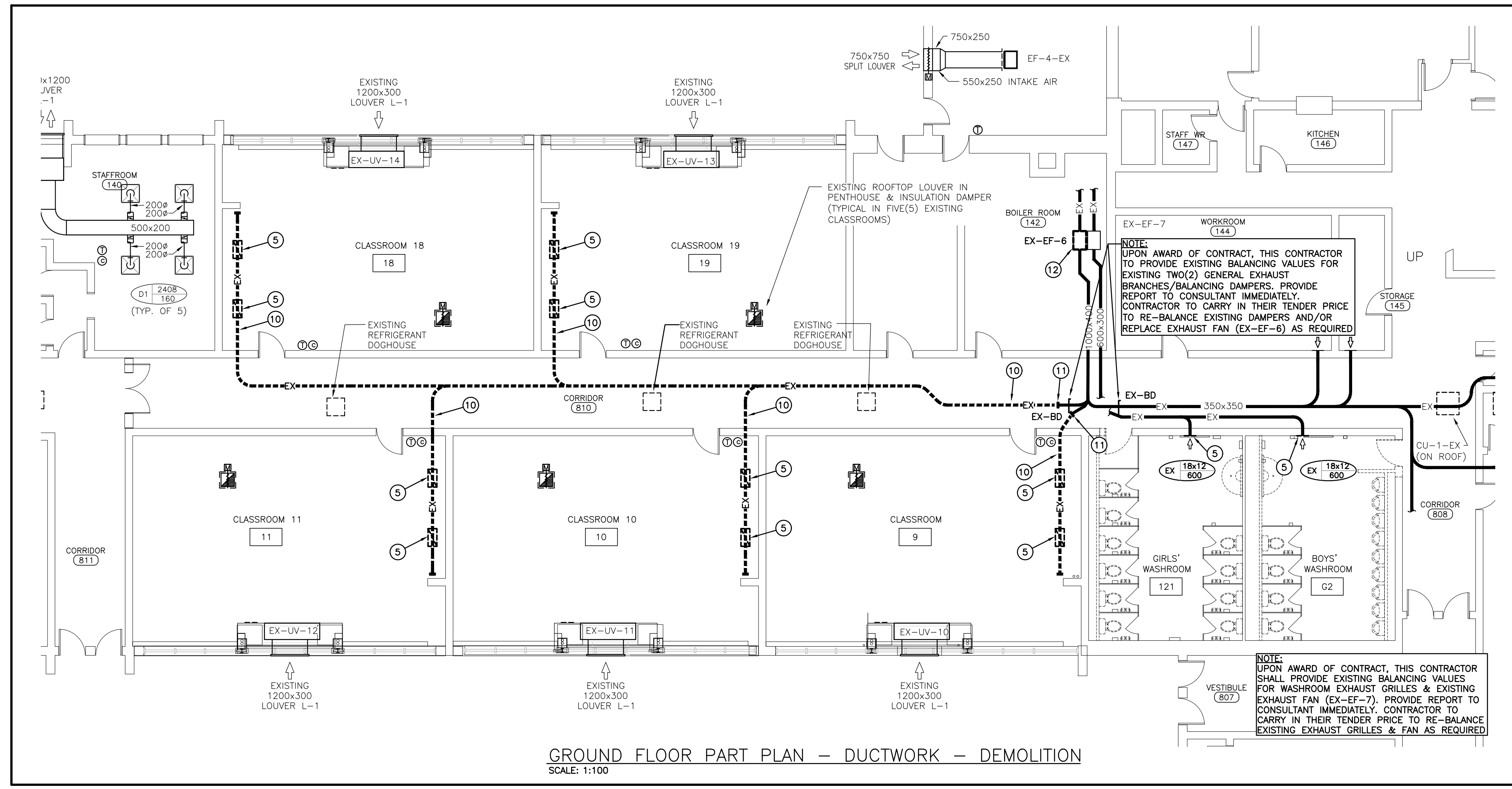
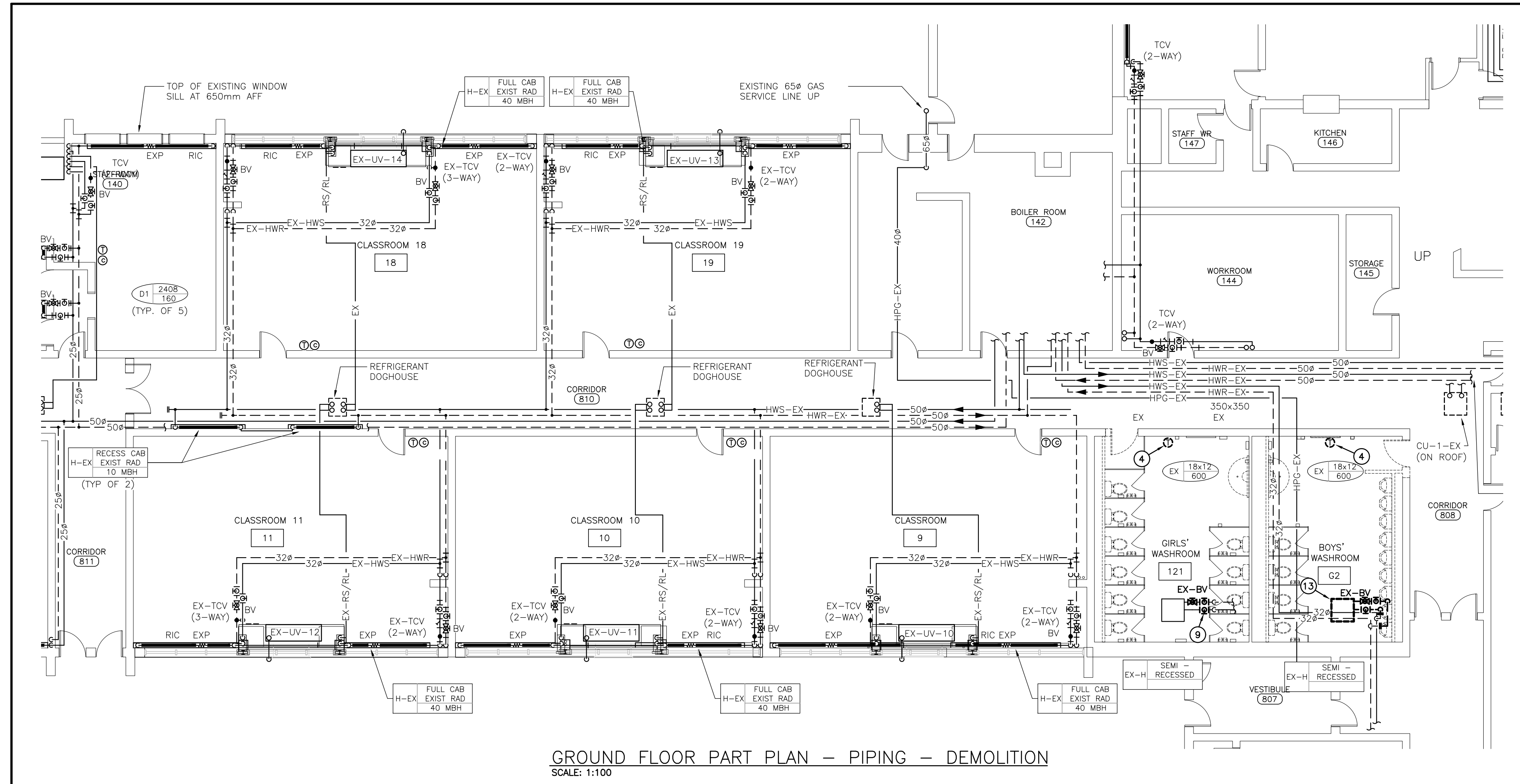
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SPECIFIC DEMOLITION NOTES

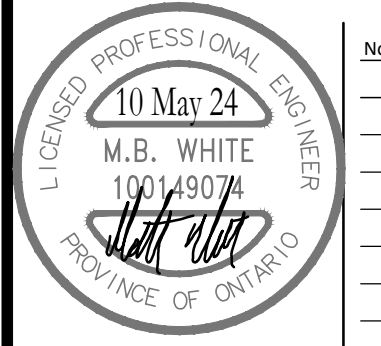
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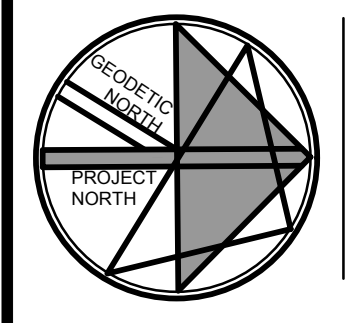
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184 TAIT STREET, CAMBRIDGE ON N1S 3G3

drawing
GROUND FLOOR PART PLANS - DEMOLITION - HEATING & DUCTWORK

drawing scale
AS NOTED

ward99 project number
23013 - WRDSB TAIT ST CEILING

ward99 architects | drawing no.

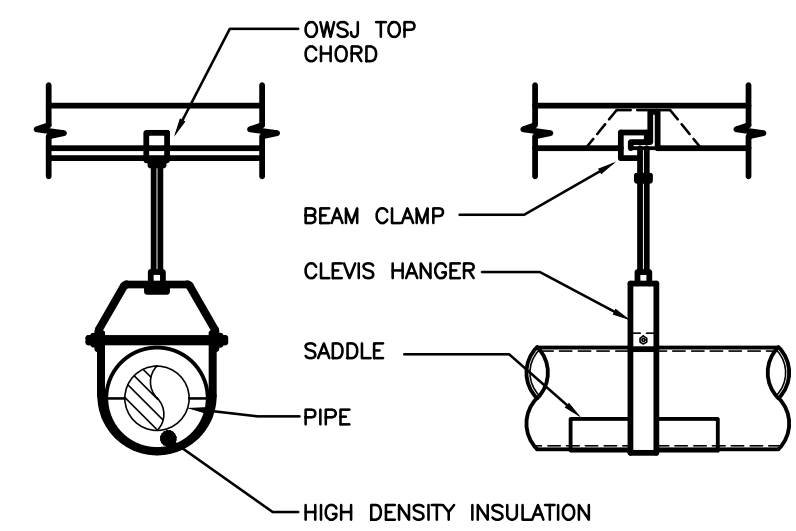
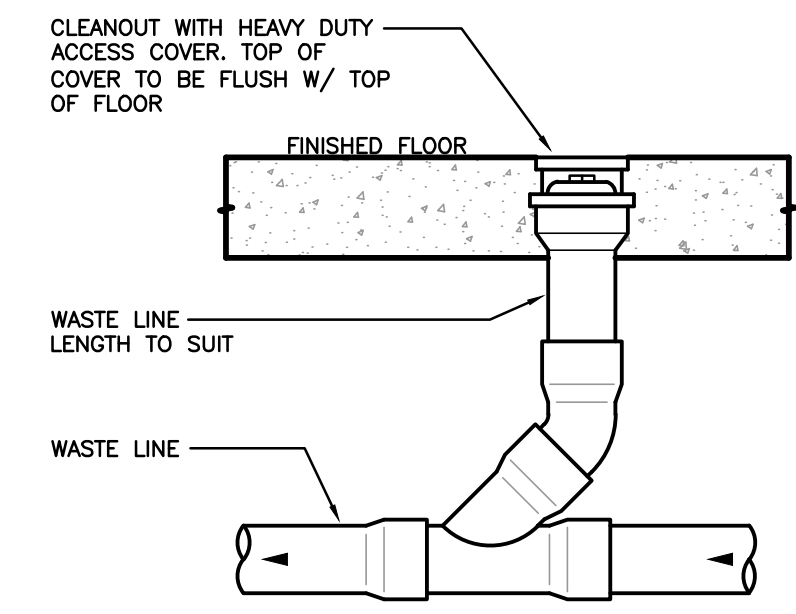
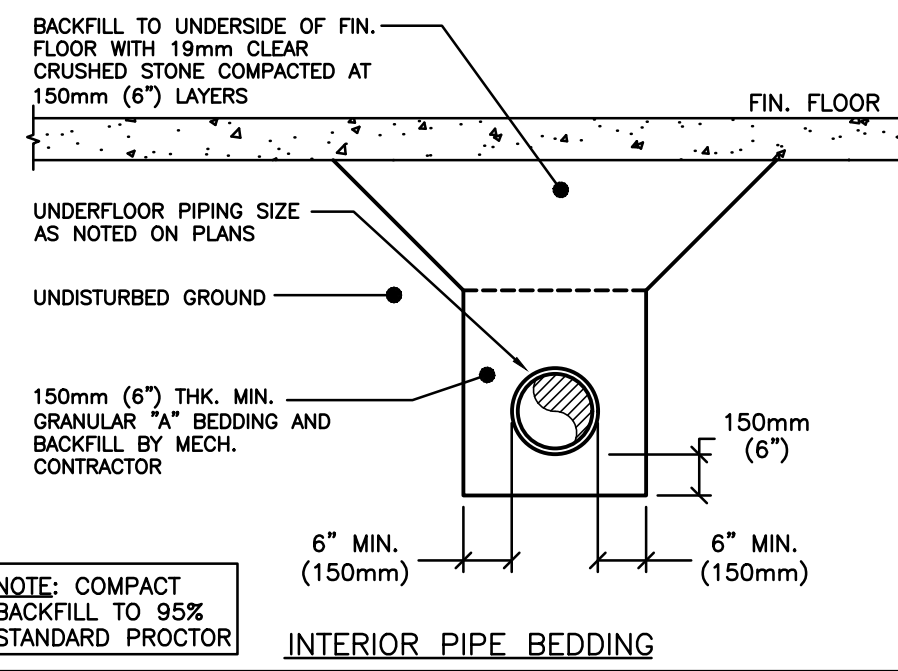
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M202

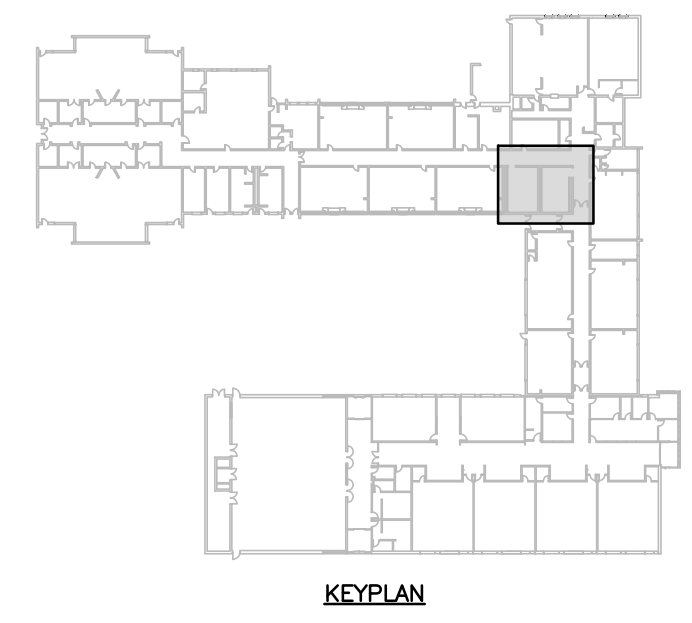
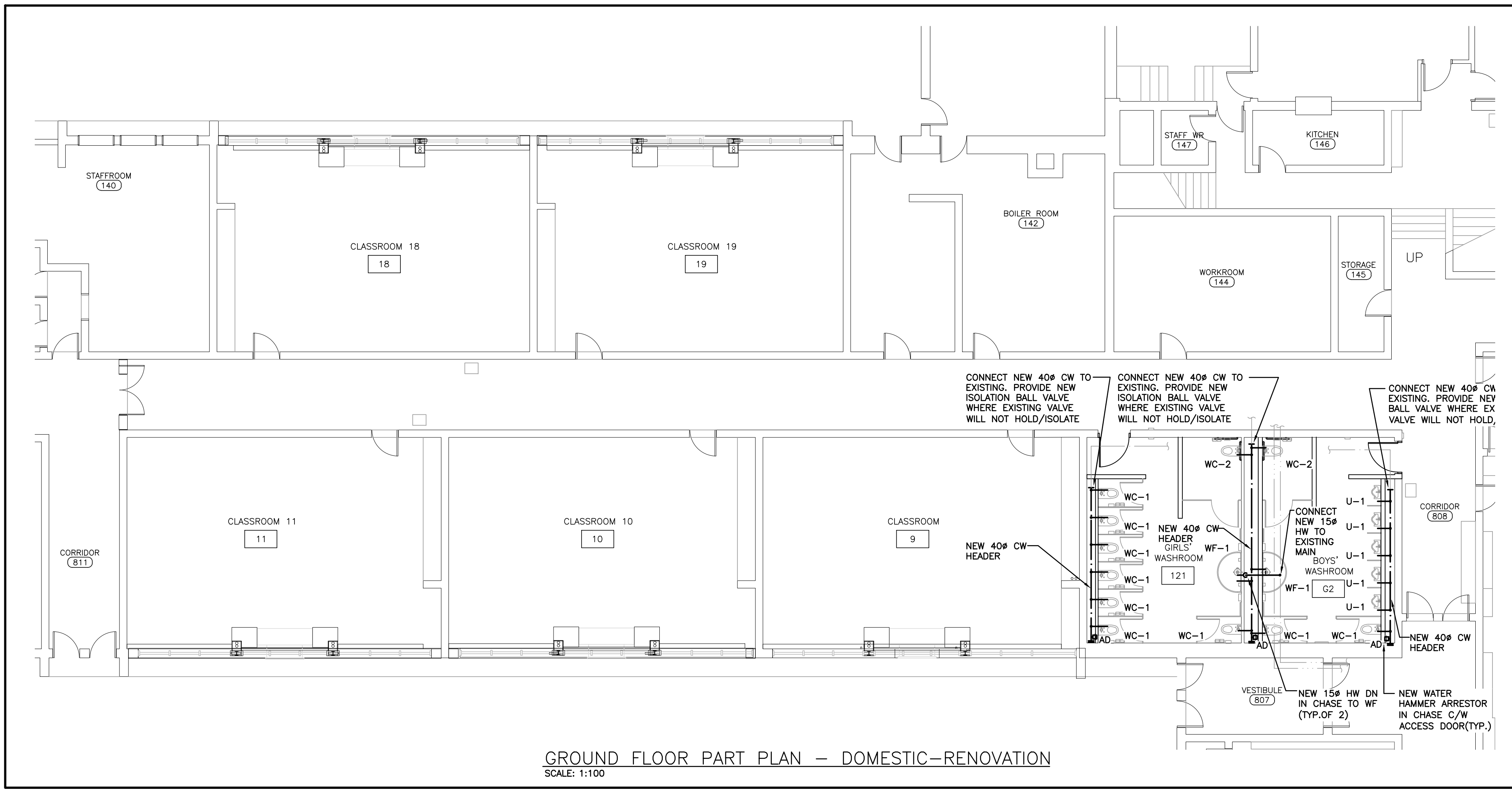
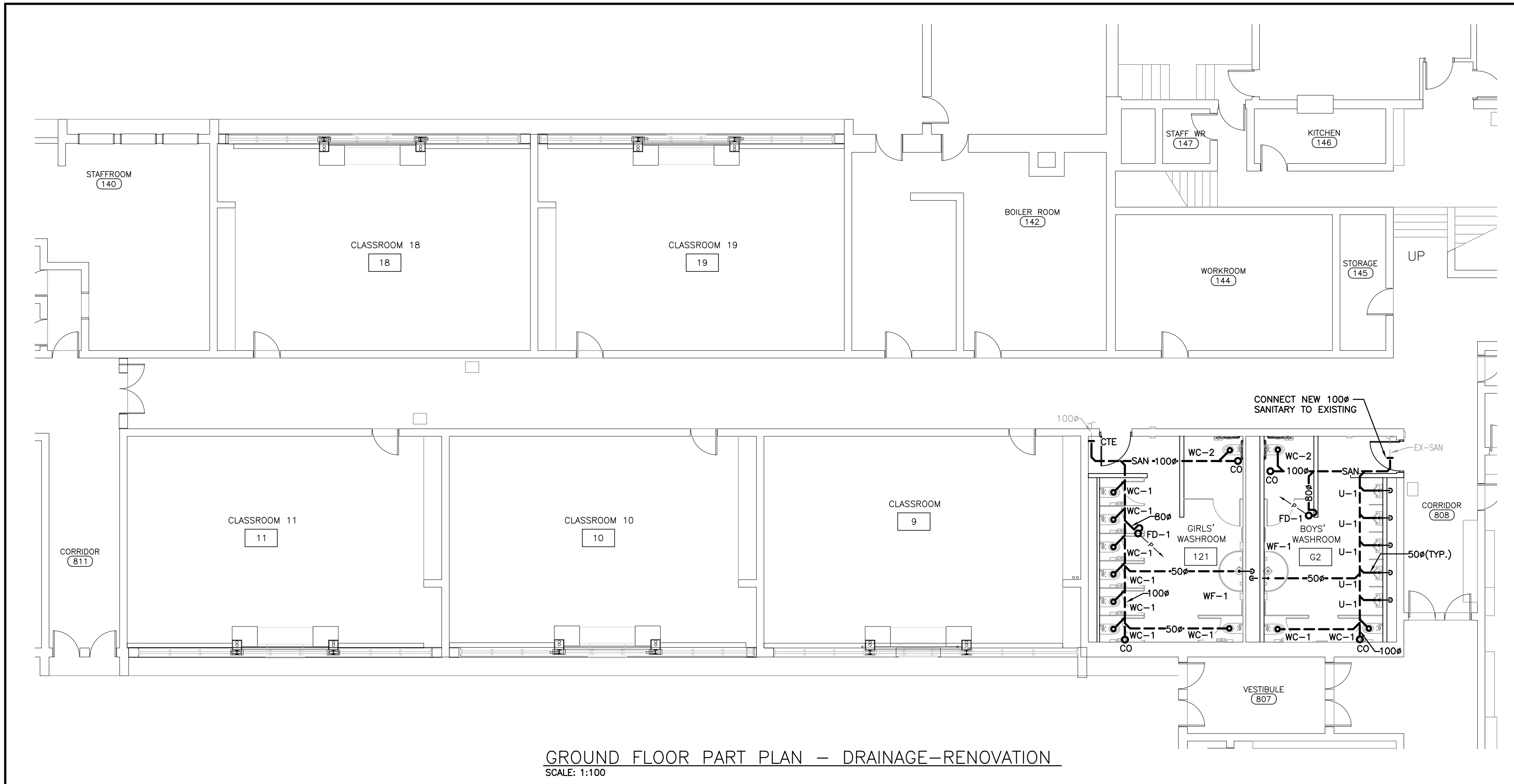
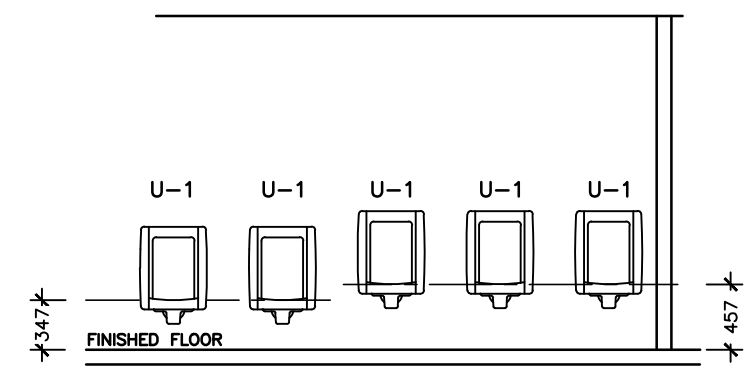
GENERAL RENOVATION NOTES

- SANITARY VENT PIPING IS NOT SHOWN. PROVIDE ALL NECESSARY VENT PIPING FROM ALL FIXTURES FOR A COMPLETE SYSTEM TO ALL LOCAL PLUMBING CODE & LOCAL AUTHORITY REQUIREMENTS, CONNECTED TO EXISTING VENTS OR NEW VENTS AS REQUIRED. CO-ORDINATE VENT LOCATION(S) WITH GENERAL CONTRACTOR. MAINTAIN MINIMUM 3700mm (12'-0") FROM ANY AIR INLET. INSTALL VENT PIPING HIGH IN JOIST SPACE.
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK



NOTE: DIMENSIONS FROM FLOOR TO RIM OF URINAL

CO-ORDINATE MOUNTING HEIGHTS W/ ARCHITECTURAL DOCUMENTS. NOTIFY CONSULTANT OF ANY DISCREPANCIES PRIOR TO ROUGH-IN



55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 549-735-3555
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Project Number: 23305

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| No. | Revision | Date |
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| 1 | Issued for Permit/Tender | April 2, 2024 |
| 2 | Issued for Construction | May 10, 2024 |

| No. | Issue | Date |
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| 1 | Issued for Permit/Tender | April 2, 2024 |
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project
WRDSB TAIT STREET PUBLIC SCHOOL CEILING RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT STREET, CAMBRIDGE ON N3S 3G3

drawing
GROUND FLOOR PART PLANS - RENOVATION - DRAINAGE & DOMESTIC

drawing scale
AS NOTED

ward99 project number
23013 - WRDSB TAIT ST CEILING

ward99 architects

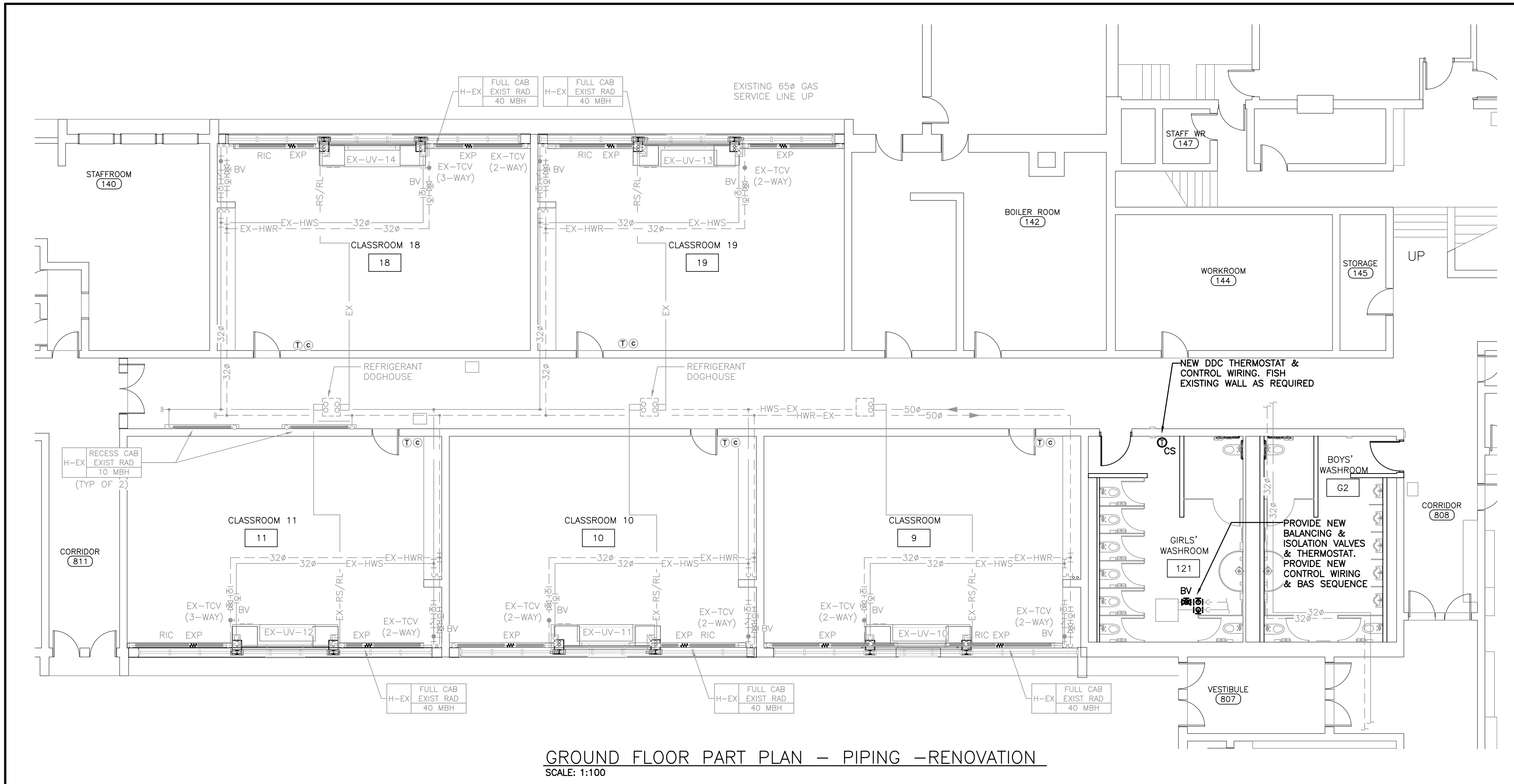
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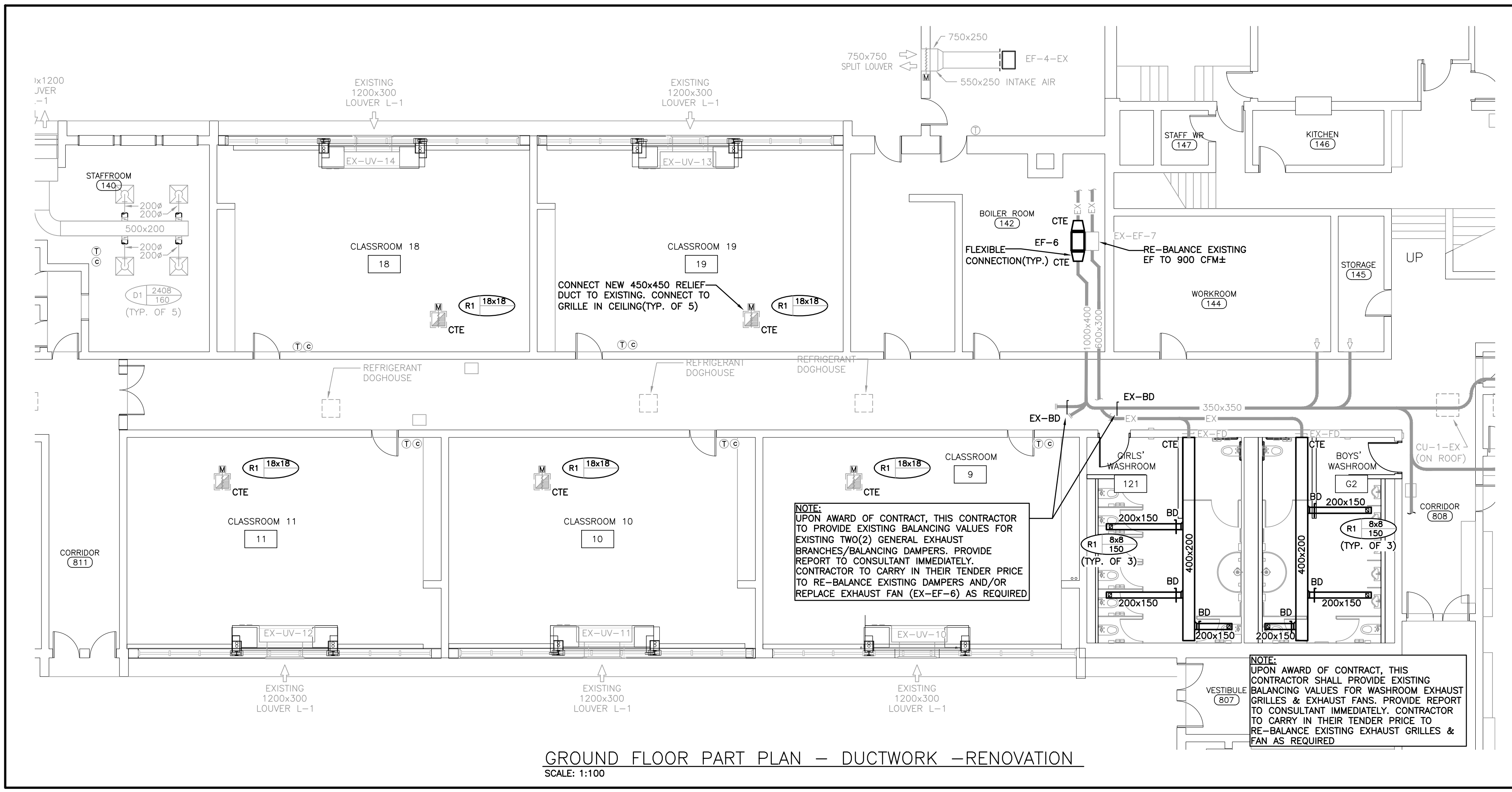
ward99 architects Inc.
7500 Highway 27, Unit 27B
Vaughan ON L4H 0J2
info@ward99architects.com
416-613-9800 www.ward99architects.com

GENERAL RENOVATION NOTES

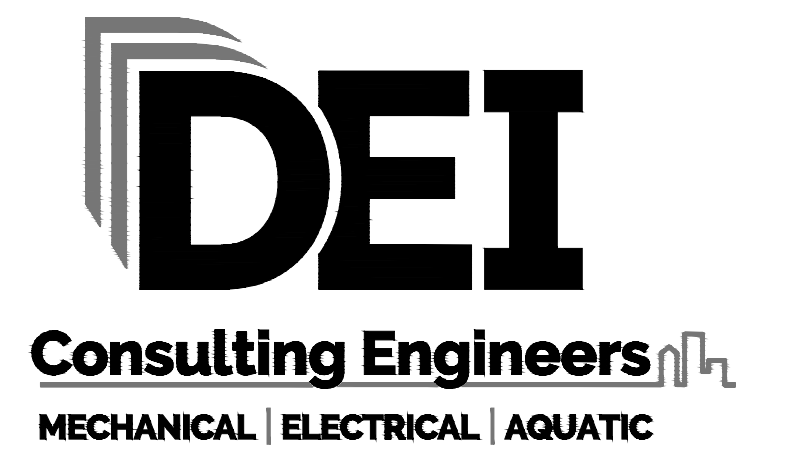
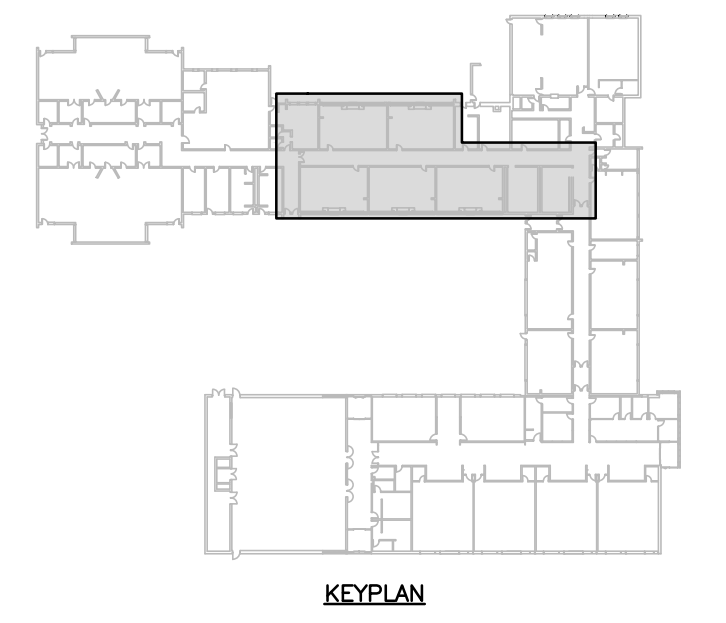
- REFER TO ARCHITECTURAL CEILING PLANS FOR GRILLES/DIFFUSERS LOCATIONS. CO-ORDINATE FINAL LOCATION ON SITE.
- CO-ORDINATE ROUGH-IN AND MOUNTING HEIGHTS OF FIXTURES WITH MILLWORK AND ARCHITECTURAL DETAILS.
- CONTRACTOR TO CARRY IN THEIR PRICING TO DRAIN SYSTEM OR FREEZE PIPING TO COMPLETE WORK



GROUND FLOOR PART PLAN - PIPING - RENOVATION
SCALE: 1:100



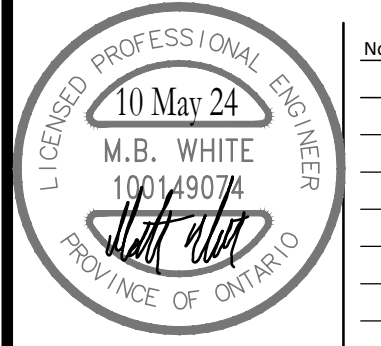
GROUND FLOOR PART PLAN - DUCTWORK - RENOVATION
SCALE: 1:100



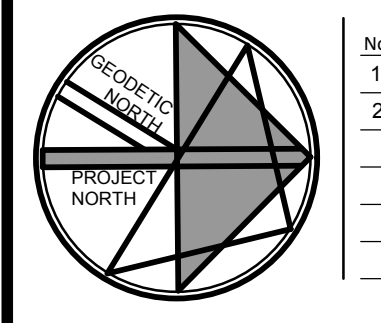
MECHANICAL | ELECTRICAL | AQUATIC
55 Northland Road, Waterloo, ON N2V 1Y8
Phone: 549-725-3555
Website: deiassociates.ca
Project Number: 23305

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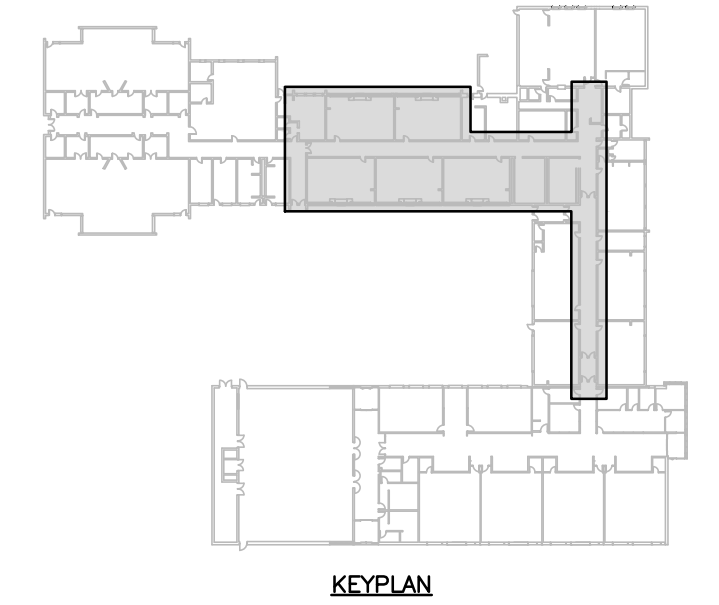
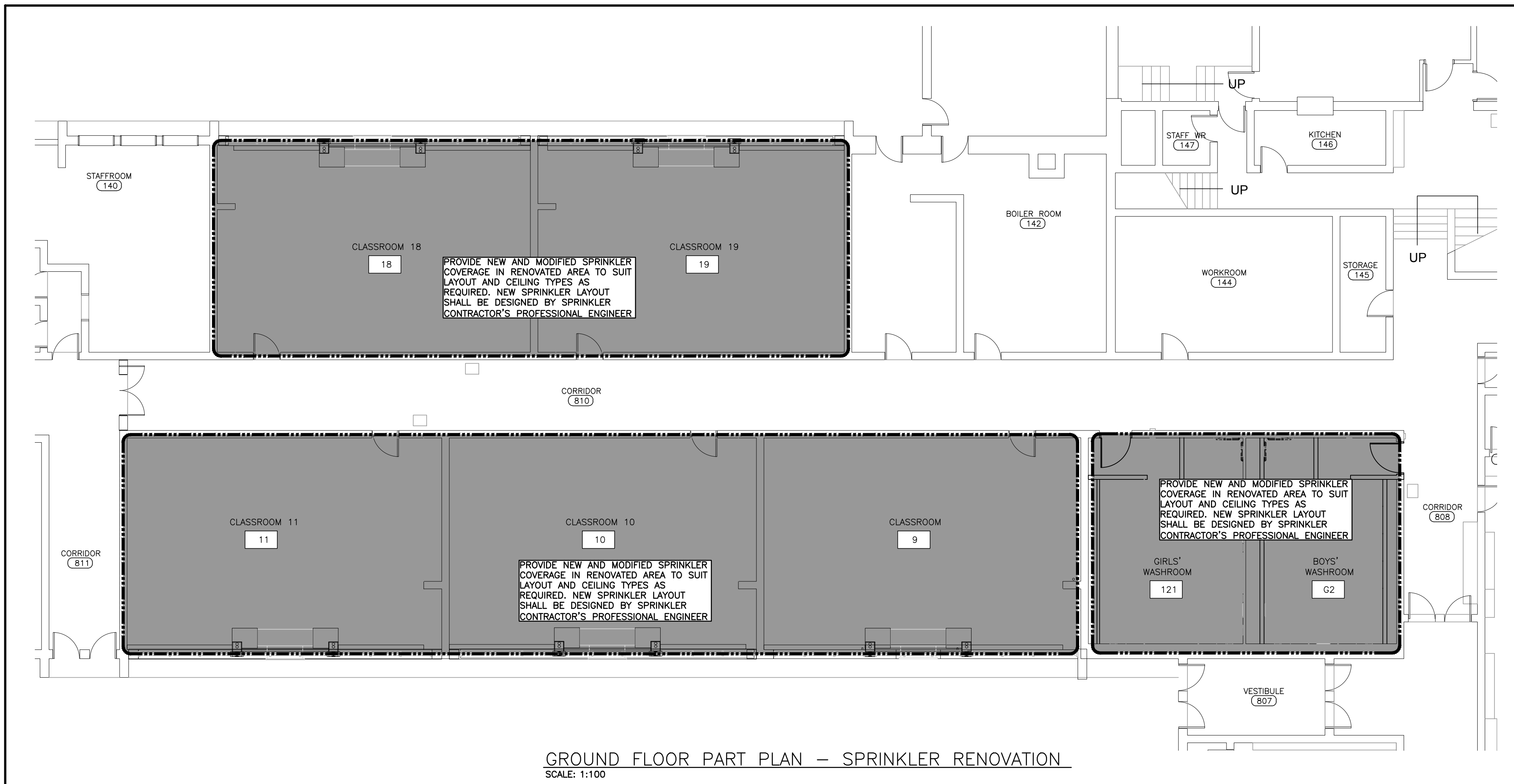
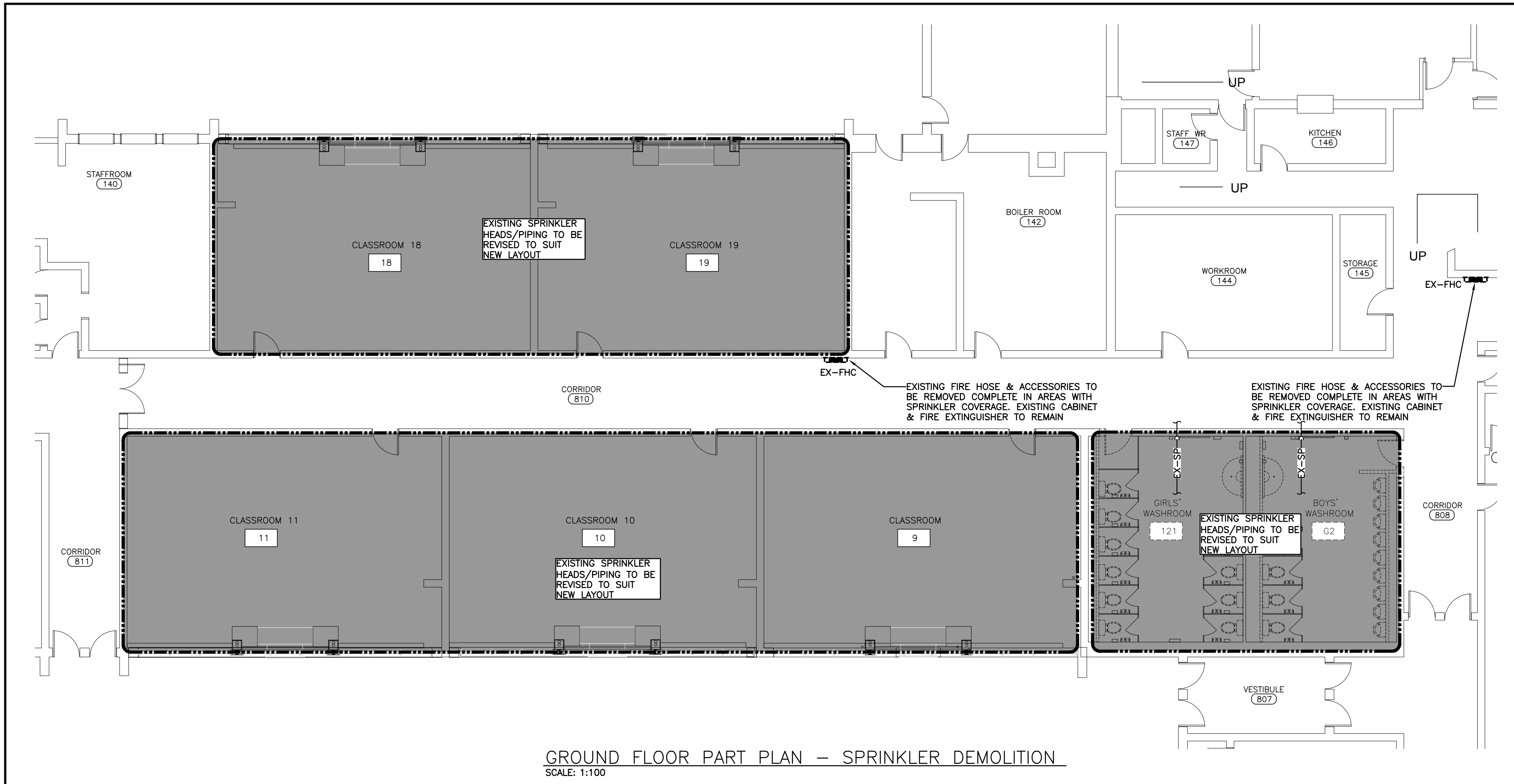
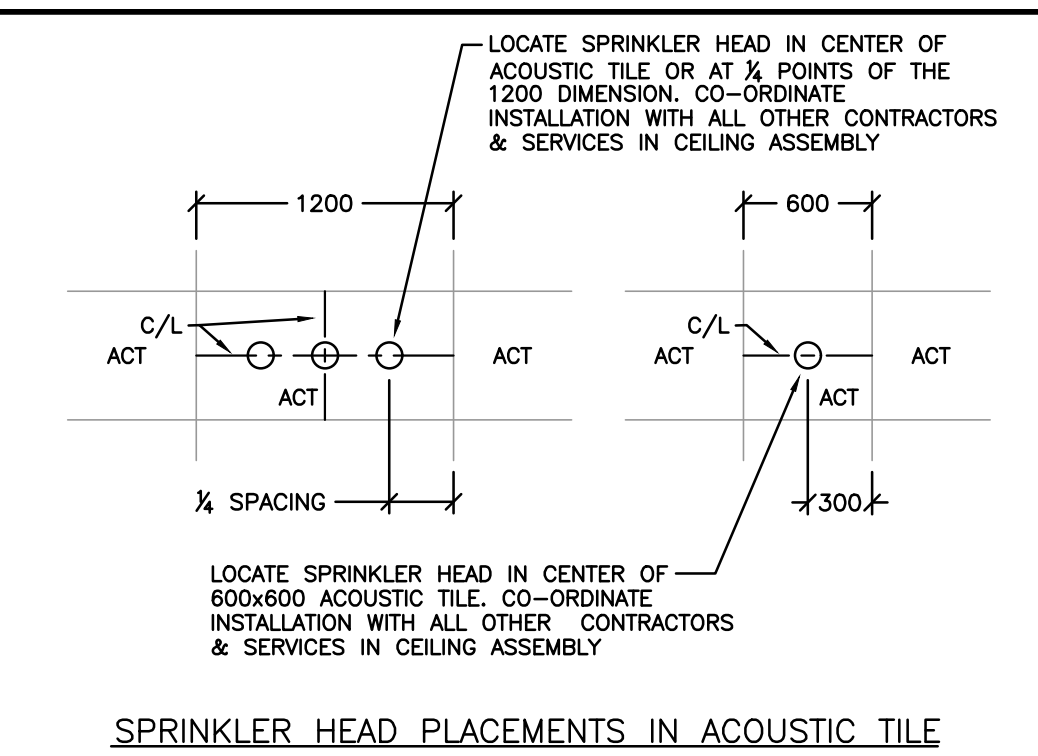
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project
WRDSB TAIT STREET PUBLIC SCHOOL CEILING RENOVATIONS
WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3
drawing title
GROUND FLOOR PART PLANS - RENOVATION - HEATING & DUCTWORK
drawing scale
AS NOTED
ward99 project number
23013 - WRDSB TAIT ST CEILINGS

ward99 architects
drawing no.
Wa RD₉₉
M302
ward99 architects inc.
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Vaughan ON L4H 0J2
info@ward99architects.com
416-513-9800 www.ward99architects.com

GENERAL SPRINKLER NOTES

- SUBMIT PRELIMINARY DESIGN & HYDRAULIC CALCULATIONS STAMPED BY A PROFESSIONAL ENGINEER, AND MANUFACTURERS' PRODUCT SHEETS FOR SHOP DRAWING SUBMISSION AS SPECIFIED PRIOR TO COMMENCING WORK.
- ENSURE DESIGN MEETS OR EXCEEDS PRESENT NFPA 13 STANDARDS. ENSURE SPRINKLER SYSTEMS ARE INSTALLED TO NFPA 13 STANDARDS. UPON COMPLETION, SPRINKLER CONTRACTOR TO PROVIDE REPRODUCIBLE DRAWING (AT 1/8"=1'-0" SCALE) AND HYDRAULIC CALCULATIONS OF AS-BUILT CONDITION.
- SPRINKLER CONTRACTOR'S 'PROFESSIONAL ENGINEER' TO PROVIDE O.B.C. AND NFPA REQUIRED INSPECTION AND CERTIFICATION.
- REFER TO ARCHITECTURAL DRAWINGS FOR REFLECTED CEILING PLAN.
- PROVIDE SPRINKLER HEAD TYPES AS FOLLOWS:
 - PROVIDE UPRIGHT HEADS WITHIN 12" OF EXPOSED DECK THROUGHOUT EXPOSED STRUCTURE AREAS. PROVIDE HEAD GUARDS IN AREAS WHERE HEADS ARE BELOW 8'-0" & STORAGE ROOMS.
 - PROVIDE CONCEALED PENDENT HEADS IN CEILINGS OF UNSUPERVISED AREAS (CORRIDORS, WASHROOMS). COVER PLATE FINISH SELECTED BY CONSULTANT.
 - PROVIDE SEMI-RECESSED HEADS IN ALL OTHER CEILING AREAS (CLASSROOMS, OFFICES, SEMINAR RMs, etc.). HEAD & ESCUTCHEON FINISH SELECTED BY CONSULTANT.
- SPRINKLER HEADS TO BE IN CENTRELINE OF CEILING TILE. MINIMUM 150mm (6") FROM EDGE.
- FINAL NUMBER AND LOCATION OF SPRINKLER HEADS TO BE DETERMINED BY CONTRACTOR'S HYDRAULIC CALCULATIONS AND APPROVED DRAWINGS.
- SPRINKLER PIPING TO BE COORDINATED WITH OTHER SERVICES PRIOR TO INSTALLATION
- SPRINKLER CONTRACTOR TO VISIT SITE AND EVALUATE EXISTING CONDITIONS PRIOR TO TENDER CLOSING. INCLUDE ALL MODIFICATIONS IN TENDER PRICE.
- EXISTING SPRINKLER SYSTEM TO BE RENOVATED/MODIFIED TO SUIT NEW LAYOUT. CONTRACTOR IS RESPONSIBLE TO SURVEY EXISTING SYSTEMS FOR CREATION OF SHOP DWGS.
- COMMISSIONING OF INTEGRATED TESTING OF FIRE PROTECTION AND LIFE SAFETY SYSTEM.
 - SPRINKLER CONTRACTOR TO PROVIDE SERVICES WITH THE FIRE COMMISSIONING AGENT (FCA) TO MEET THEIR REQUIREMENTS OF ADMINISTRATION, VERIFICATION, AND FINAL SIGNOFF TO THE LOCAL AUTHORITIES AND CONSULTANT. THE FCA IS BEING RETAINED BY THE ELECTRICAL CONTRACTOR. HOWEVER, THIS CONTRACTOR'S WORK TO SATISFY THE FCA REQUIREMENTS SHALL BE INCLUDED IN THE TENDER PRICE.
 - CHECK/TEST: MOVEMENT OF ALL VALVES, CREATE WATER FLOW AT ALL DEVICES TO VERIFY DETECTION AT FIRE ALARM PANEL.
 - PERFORM ALL WORK IN ACCORDANCE WITH NFPA 13.
 - RETURN SPRINKLER SYSTEM TO NORMAL OPERATION ON COMPLETION OF TESTING



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Project Number: 23305

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project
WRDSB TAIT STREET PUBLIC SCHOOL CEILING RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

drawing
GROUND FLOOR PART PLANS - SPRINKLER DEMOLITION AND RENOVATION

drawing scale
AS NOTED

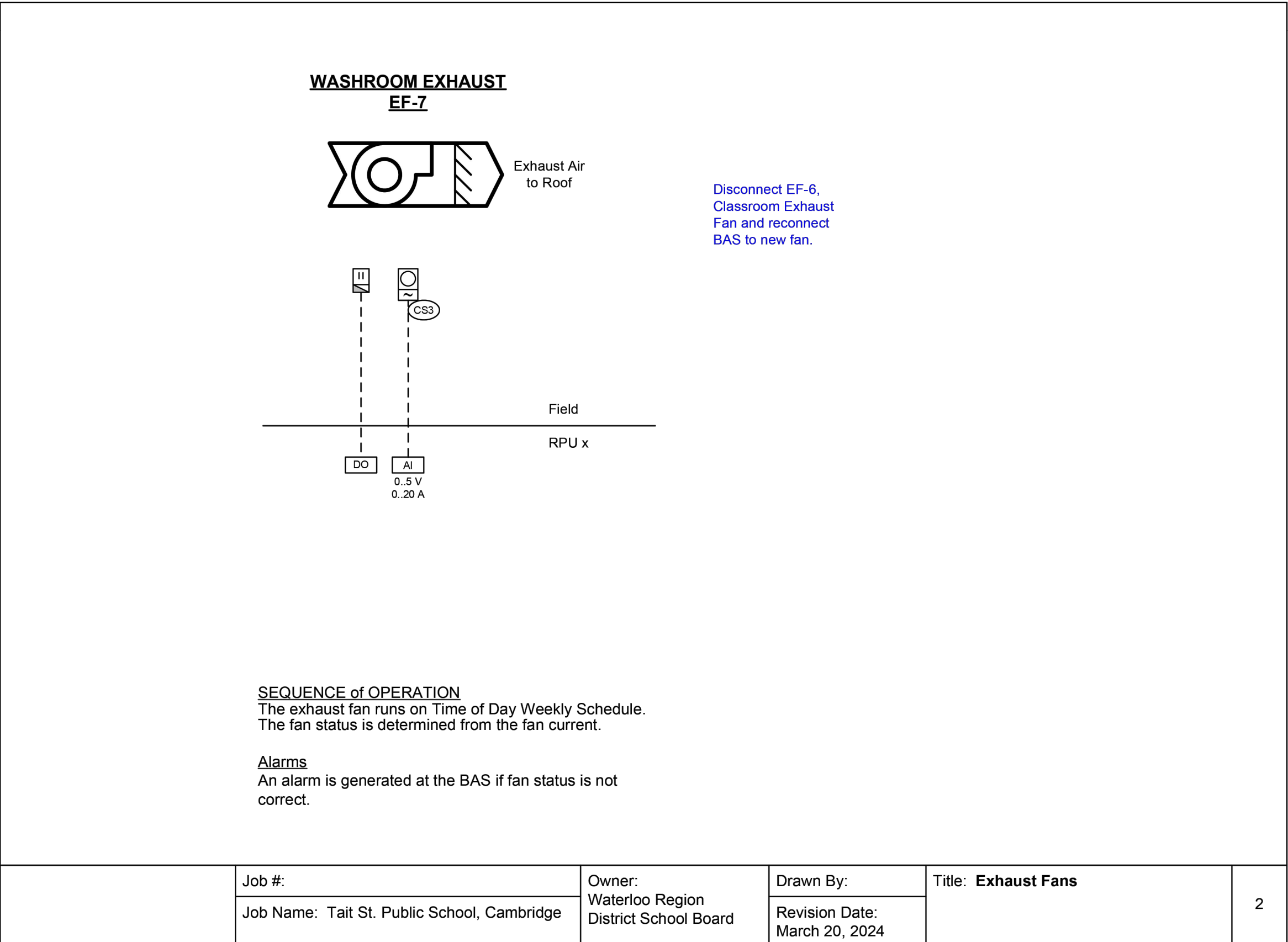
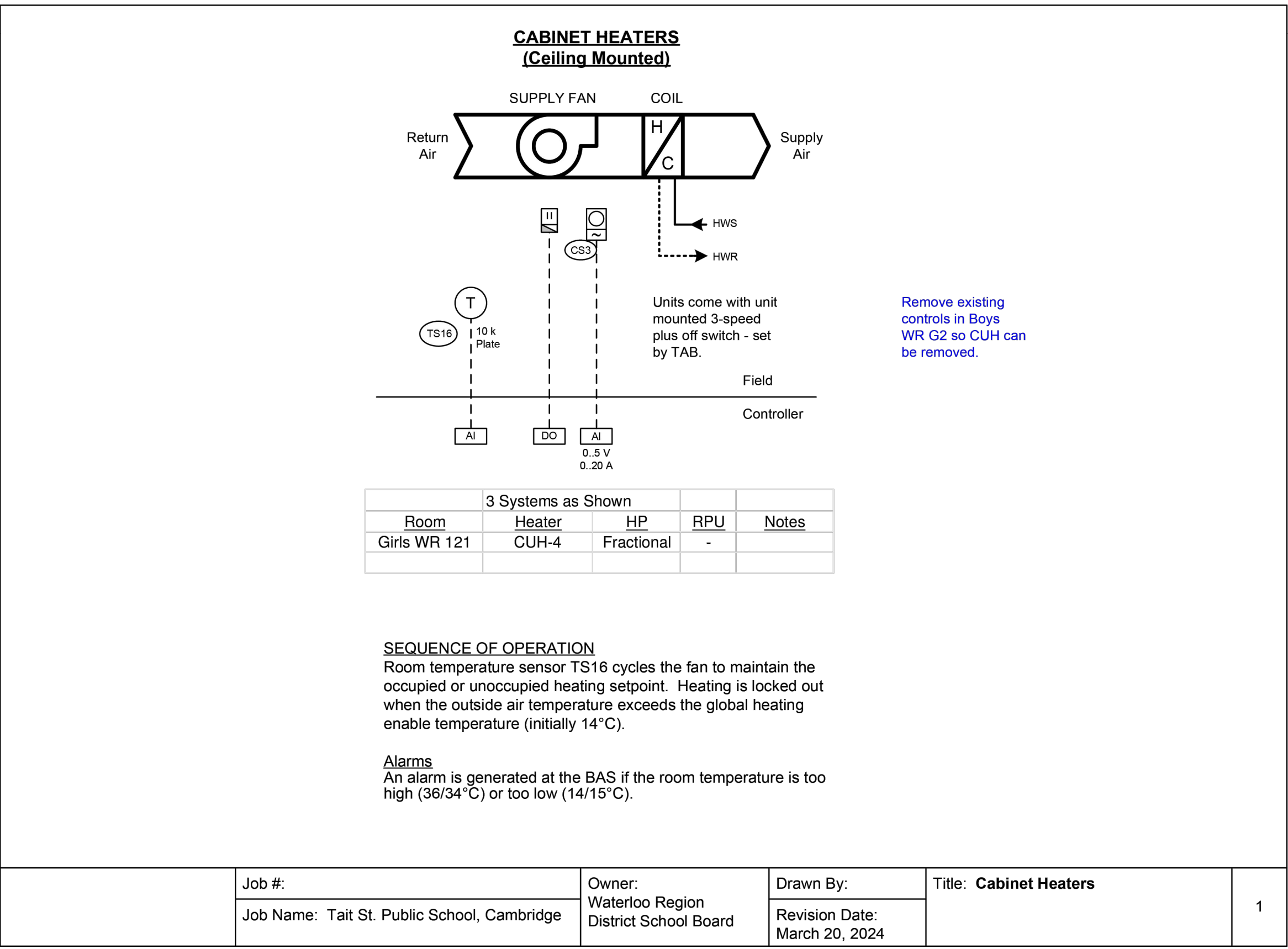
ward99 project number
23013 - WRDSB TAIT ST CEILINGS

ward99 architects

Wa RD₉₉

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drawing no.
M401



55 Northland Road, Waterloo, ON N2V 1Y8
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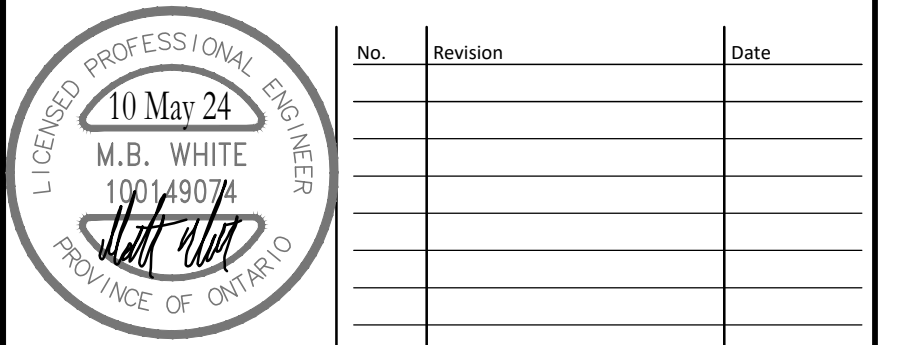
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project
WRDSB TAIT STREET PUBLIC SCHOOL CEILING RENOVATIONS

WATERLOO REGION DISTRICT SCHOOL BOARD
184 TAIT STREET, CAMBRIDGE, ON N1S 3G3

drawing
BAS CONTROL SCHEMATICS

drawing scale
AS NOTED

ward99 project number
23013 - WRDSB TAIT ST CEILINGS

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| <p>ward99 architects</p> <p>ward99 architects Inc. 7500 Highway 27, Unit 27B Vaughan ON L4H 0J2 info@ward99architects.com 416-513-5880 www.ward99architects.com</p> | <p>drawing no.</p> <h1 style="font-size: 48px; margin: 0;">M502</h1> |
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