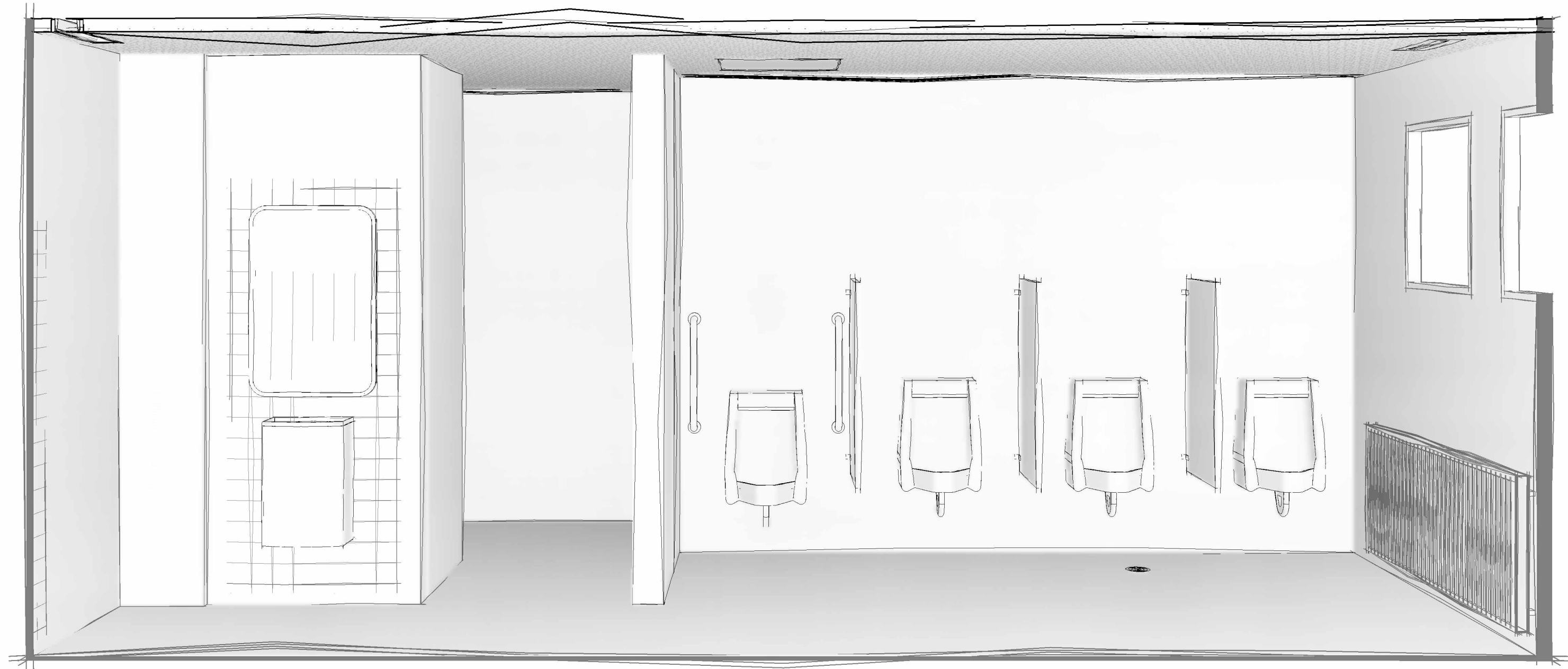
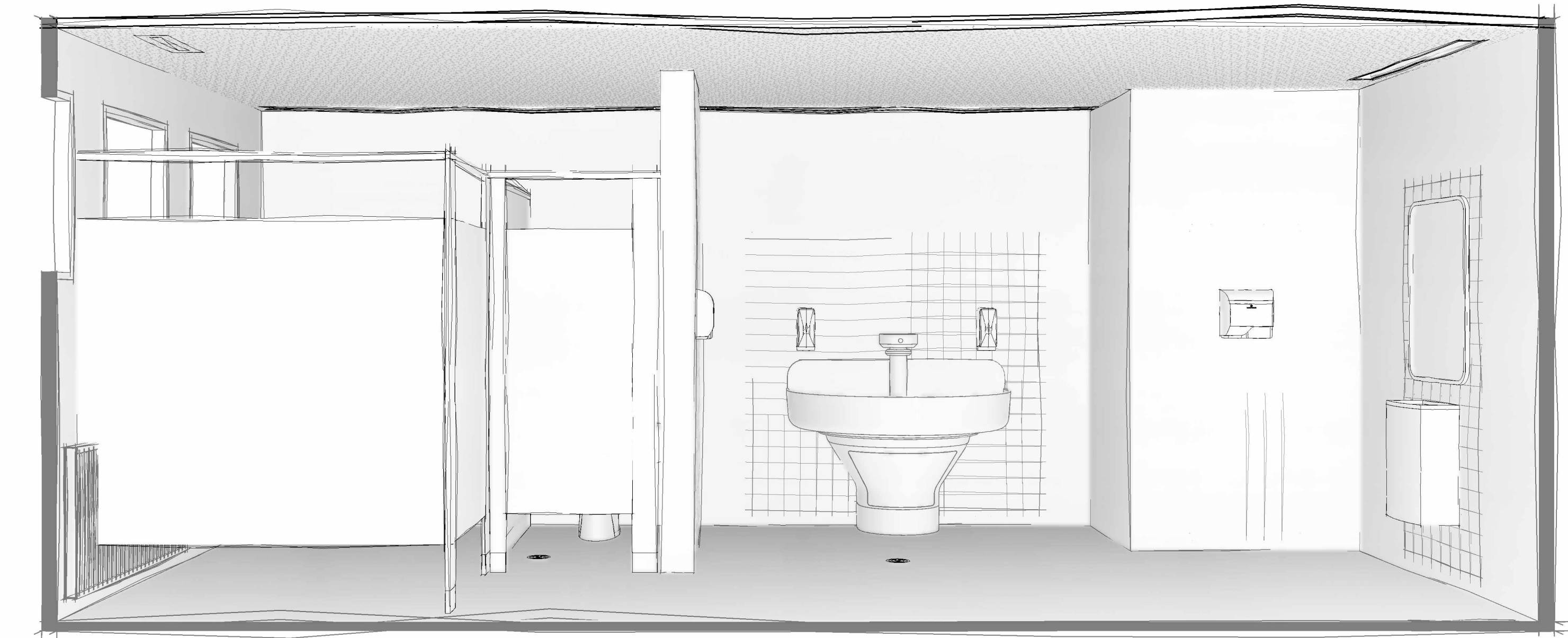




HWDSB

2026-133-P02206 Chedoke Elementary School Washroom Renovations

500 Bendamere Ave., Hamilton, ON

SHEET ARCHITECTURAL DRAWINGS

- A0.01 COVER SHEET
- A1.01 GENERAL NOTES, LEGENDS, OBC MATRIX
- A1.02 GROUND FLOOR DEMOLITION
- A1.03 SECOND FLOOR DEMOLITION
- A1.04 GROUND FLOOR PROPOSED FLOOR PLANS
- A1.05 SECOND FLOOR PROPOSED FLOOR PLANS
- A1.06 GROUND FLOOR PROPOSED INTERIOR ELEVATIONS
- A1.07 SECOND FLOOR PROPOSED INTERIOR ELEVATIONS
- A1.08 GROUND FLOOR PROPOSED FINISHES
- A1.09 SECOND FLOOR PROPOSED FINISHES

SHEET MECHANICAL DRAWINGS

- M-0.01 MECHANICAL SPECIFICATIONS, LEGEND, SCHEDULE
- M-1.01 MECHANICAL DEMOLITION
- M-1.02 MECHANICAL NEW CONSTRUCTION
- M-2.01 PLUMBING FIXTURES

SHEET ELECTRICAL DRAWINGS

- E-0.01 ELECTRICAL SPECIFICATIONS, LEGEND, SCHEDULE
- E-1.01 ELECTRICAL DEMOLITION
- E-1.02 ELECTRICAL NEW CONSTRUCTION LAYOUT



project number

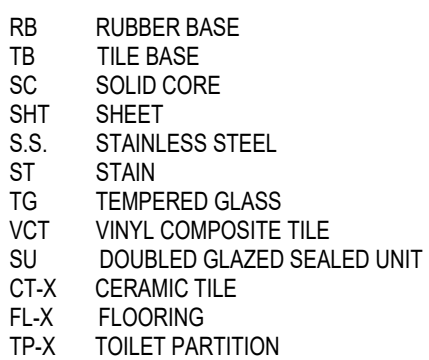
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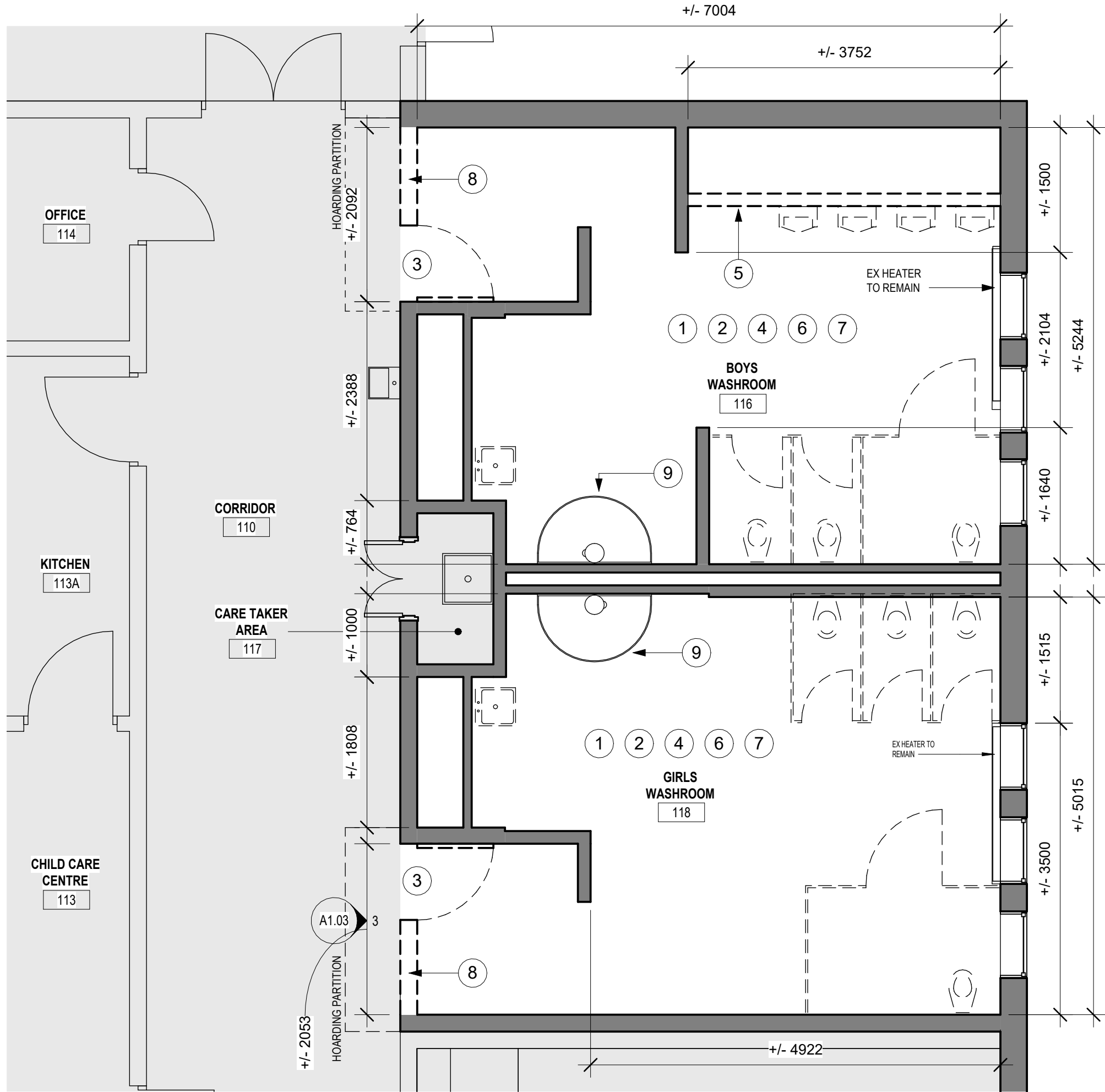
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Ontario Building Code Data Matrix, Part 11
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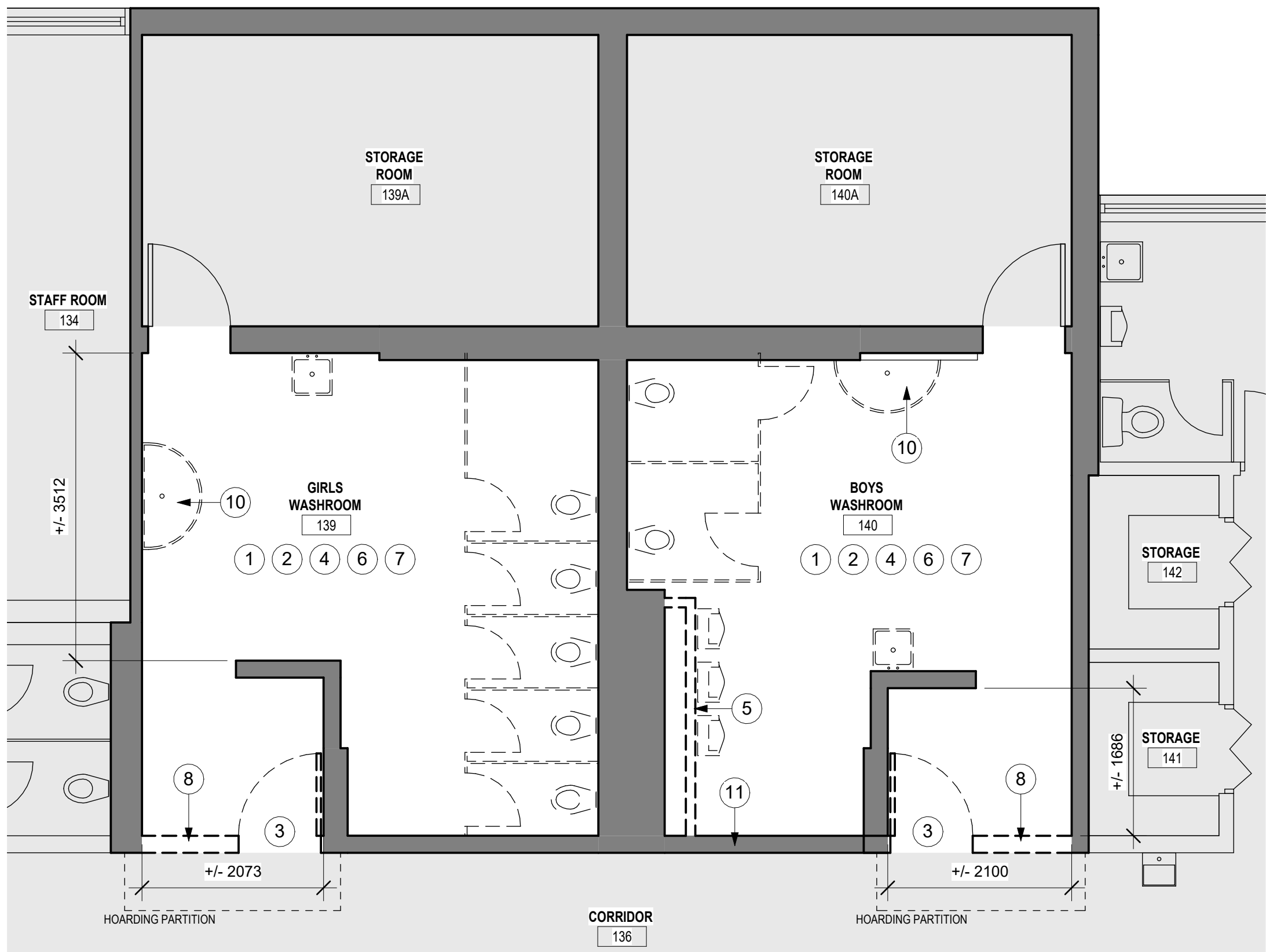
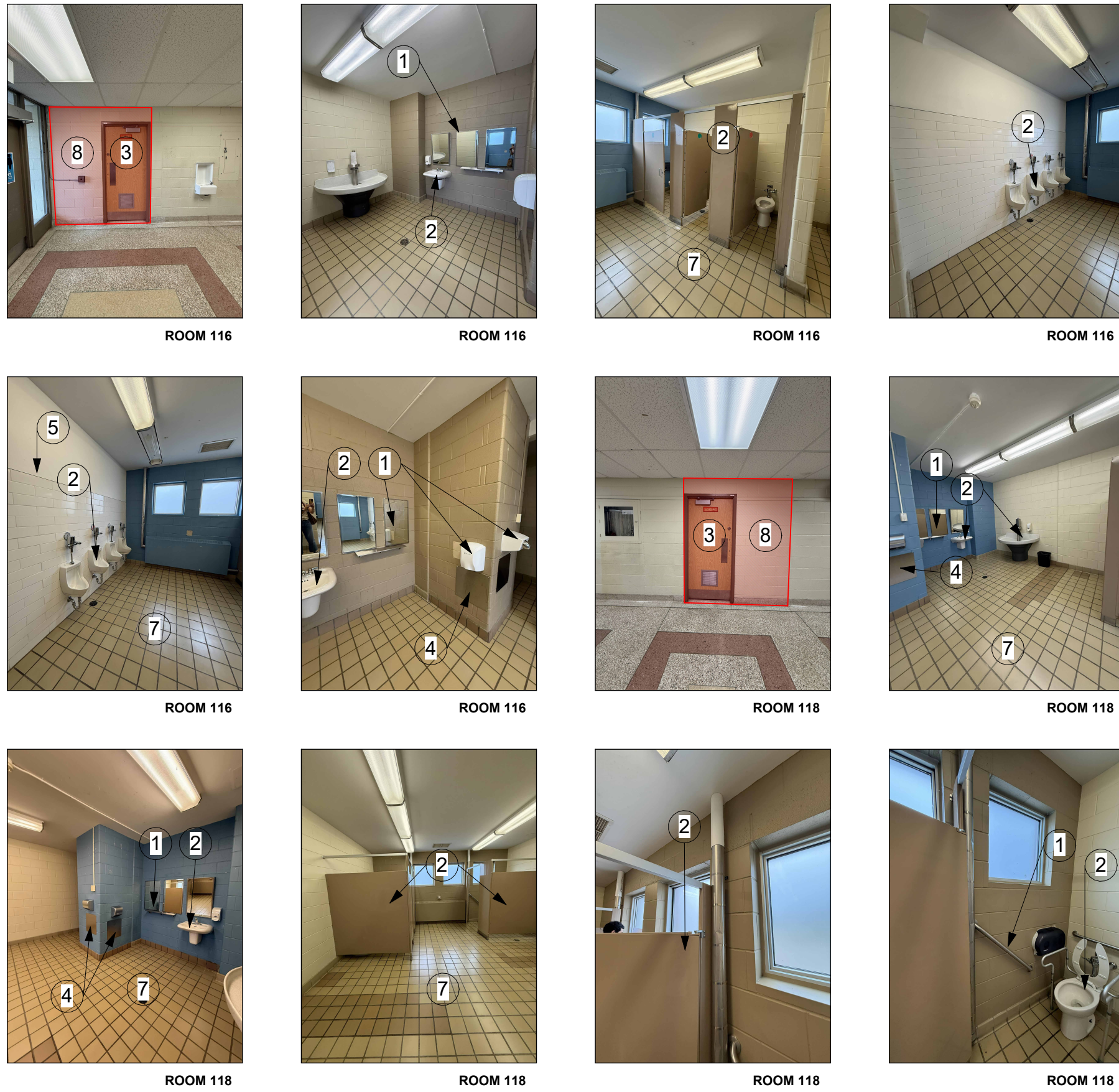
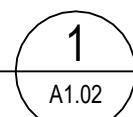
FLOOR	ROOM NAME	WC	URINAL
1	BOYS WASHROOM (116)	2	4
	GIRLS WASHROOM (118)	4	0
	GIRLS WASHROOM (139)	5	0
	BOYS WASHROOM (140)	3	2
2	BOYS WASHROOM (209)	2	4
	GIRLS WASHROOM (211)	4	0
TOTAL:		20	10



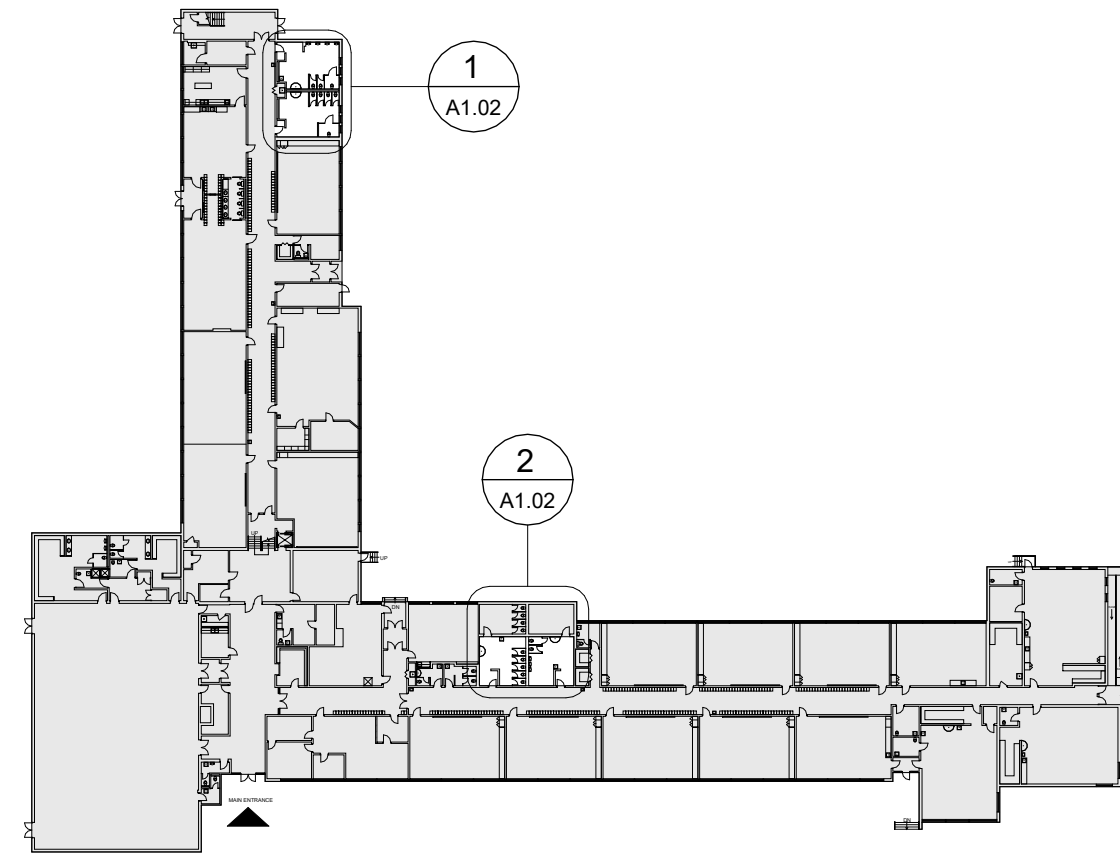
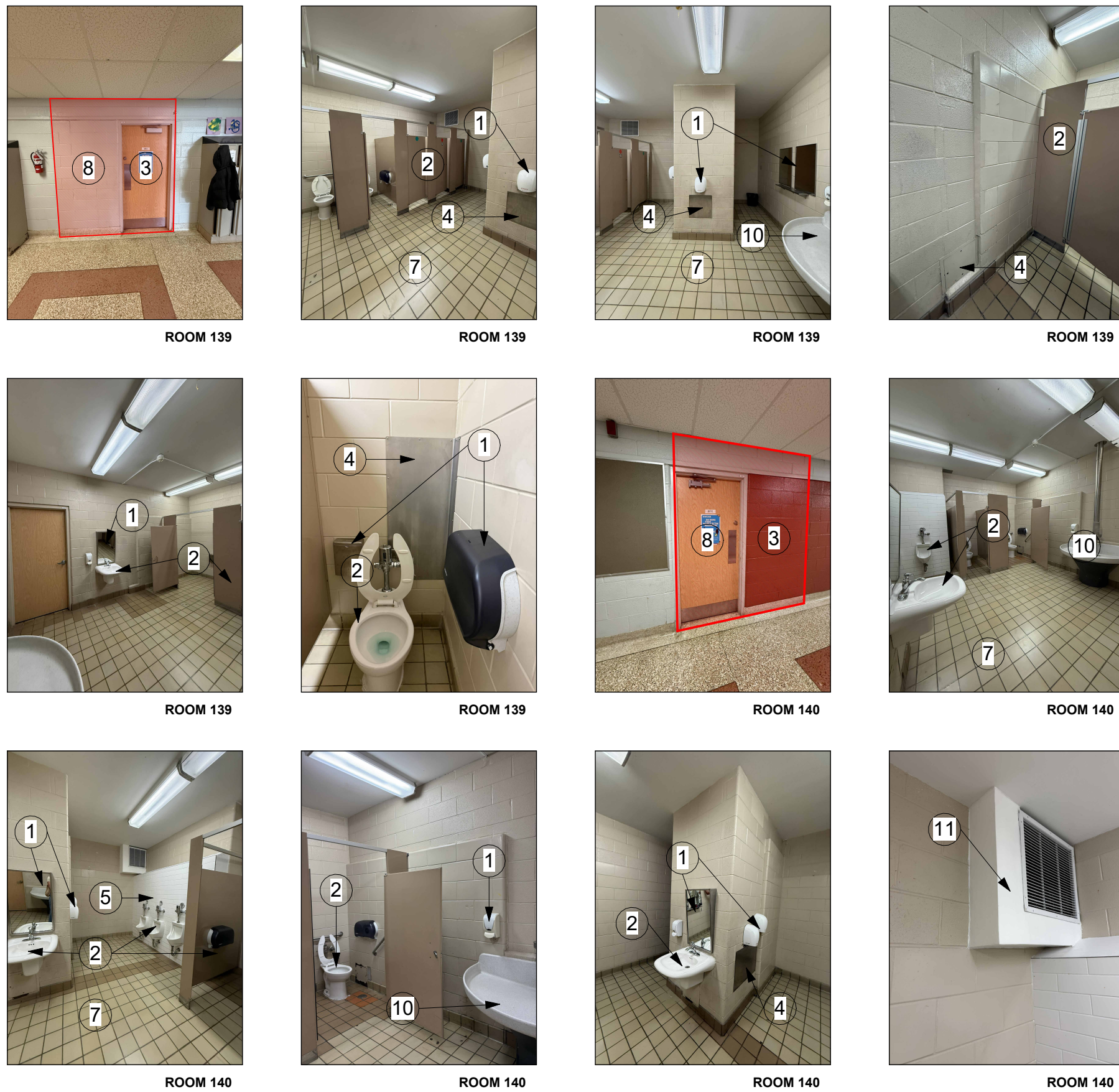
Revis



ROOMS 116, 118 (PARTIAL RENOVATION) DEMOLITION
SCALE: 1:50



ROOMS 139, 140 (FULL RENOVATION) DEMOLITION
SCALE: 1:50



GROUND FLOOR DEMOLITION - KEY MAP
SCALE: 1:850

DEMOLITION NOTES

- 1 REMOVE ALL EXISTING WALL-MOUNTED WASHROOM ACCESSORIES. REMOVE ANY SCREWS, NAILS, OR FASTENERS LEFT IN WALLS.
- 2 REMOVE AND DISPOSE EXISTING PLUMBING FIXTURES, INCLUDING WASHROOM PARTITIONS AND ACCESSORIES, INCLUDING BUT NOT LIMITED TO MIRRORS, SHELVES, PAPER HOLDERS, NAPKIN DISPOSALS, AND GRAB BARS. REFER TO MECHANICAL PLANS FOR THE FULL SCOPE OF WORK.
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- 4 REMOVE EXISTING METAL WALL PANELS/COVERS AND INFILL WALL WITH MATERIALS TO MATCH IF REQUIRED
- 5 DEMOLISH EXISTING GYPSUM BOARD PARTITION AND FINISHES
- 6 DEMOLISH GYPSUM BOARD CEILING AND ITS SUPPORT SYSTEM
- 7 REMOVE EXISTING FLOORING AND BASE WHILE PRESERVING ADJACENT SURFACES IN GOOD CONDITION. LEVEL AS REQUIRED (UP TO 1/2"), AND PREPARE FLOOR FOR NEW FINISH.
- 8 DEMOLISH THE MASONRY WALL UP TO THE UNDERSIDE OF THE STRUCTURE TO WIDEN THE EXISTING OPENING. REFER TO DETAIL 3/A1.03 AND THE NEW LAYOUT FOR REFERENCE.
- 9 TEMPORARILY REMOVE EXISTING BRADLEY FOUNTAIN FOR TILE FINISH INSTALLATION; REINSTALL AT EXISTING LOCATION.
- 10 ALTERNATE PRICE: REMOVE AND RELOCATE BRADLEY WASHFOUNTAIN FROM ROOMS 139 AND 140 FOR REUSE IN ROOMS 209 AND 211.
- 11 REMOVE EXISTING DRYWALL FRAMING AROUND MECHANICAL DUCT.
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GENERAL DEMOLITION NOTES:

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No.	DESCRIPTION	DATE
2	ISSUED FOR CONSTRUCTION	26/06/05
1	ISSUED FOR TENDER	26/03/25
0	ISSUED FOR BUILDING PERMIT	25/12/18

REVISIONS

SEAL:

HWDSB

Benexsys

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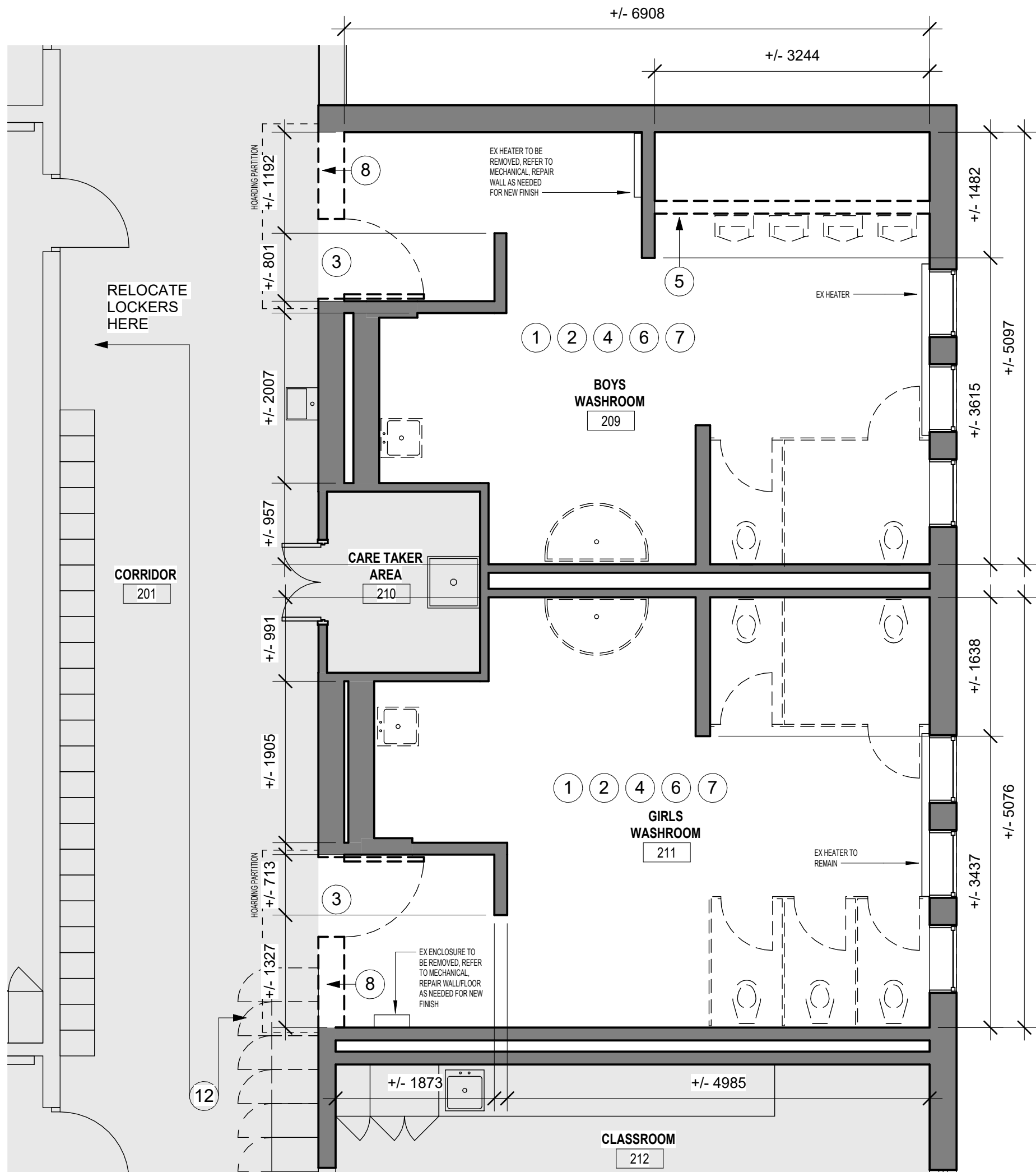
EMAIL: info@ajp.design 905-808-5121
https://ajp.design

project title:
2026-133-P02206 Chedoke
Elementary School
Washroom Renovations
500 Bendamere Ave., Hamilton, ON

Drawing title:
GROUND FLOOR DEMOLITION

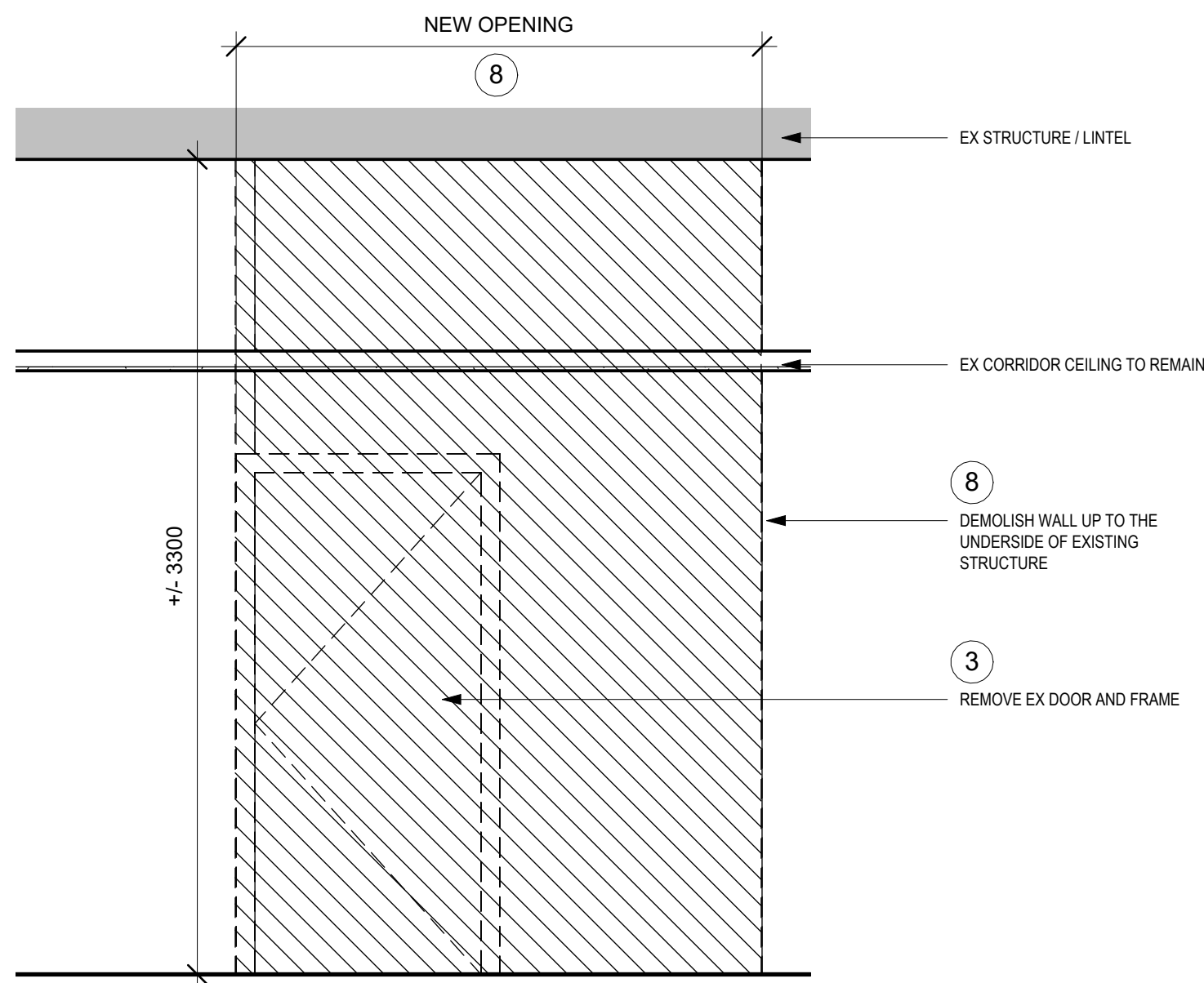
drawn: AS	scale: As indicated
checked: A.J.	project number: 25-25

DRAWING NO: A1.02	Revision 2
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ROOMS 209, 211 (PARTIAL RENOVATION) DEMOLITION
SCALE: 1 : 50

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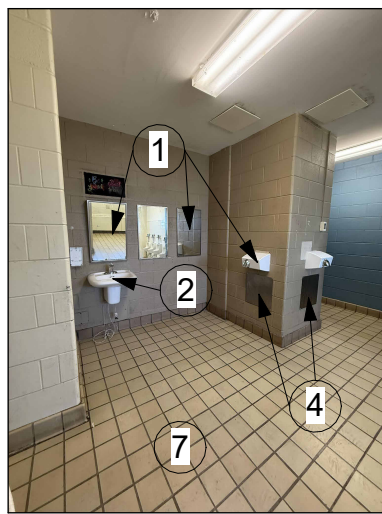


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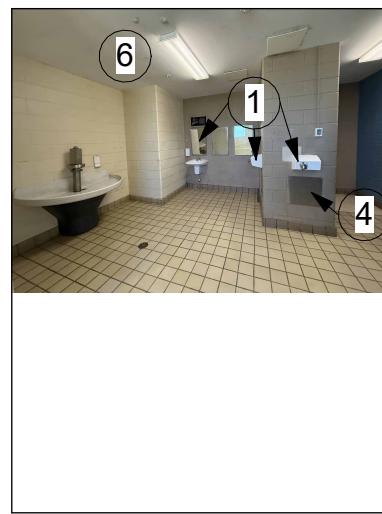
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ROOM 209



ROOM 209



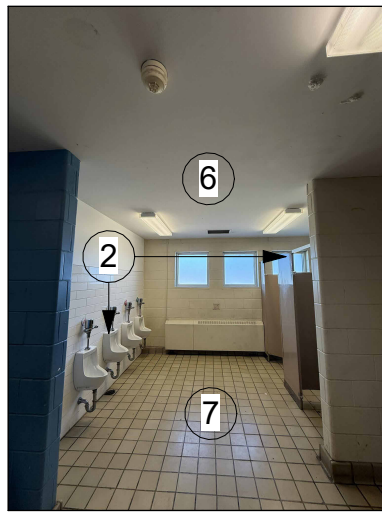
ROOM 209



ROOM 209



ROOM 209



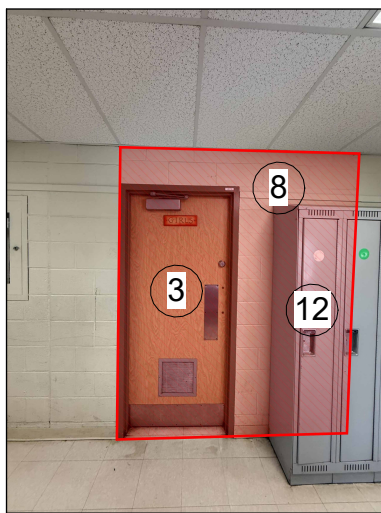
ROOM 209



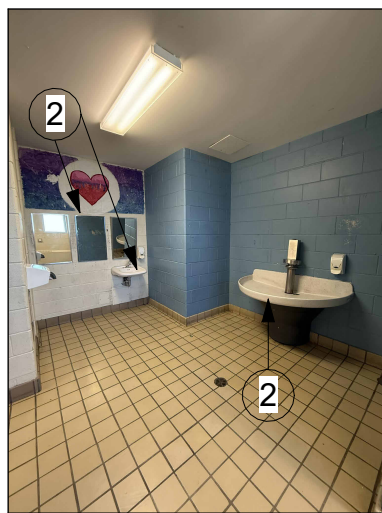
ROOM 209



ROOM 209



ROOM 211



ROOM 211



ROOM 211



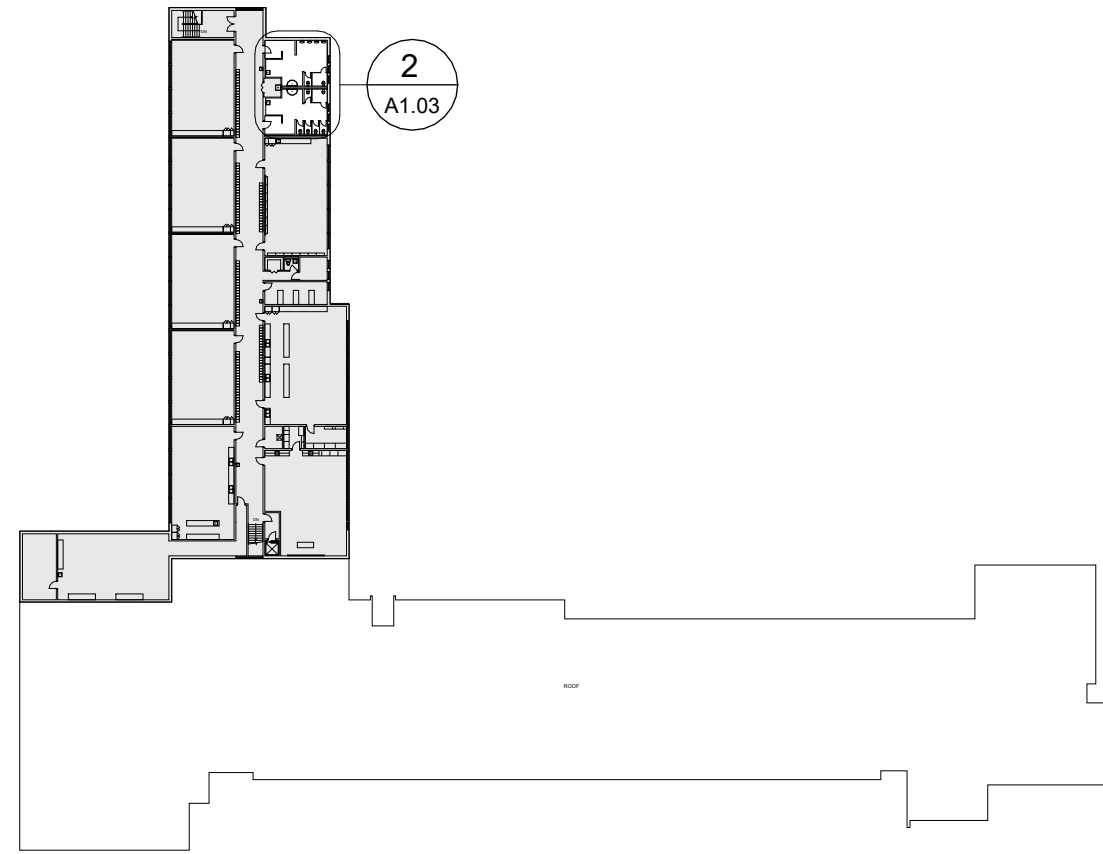
ROOM 211



ROOM 211



ROOM 211



SECOND FLOOR DEMOLITION - KEY MAP
SCALE: 1 : 850

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REVISIONS

SEAL:

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AMPA J
ARCHITECTS INC.

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project title:
2026-133-P02206 Chedoke
Elementary School
Washroom Renovations
500 Bendamere Ave., Hamilton, ON

drawing title:
SECOND FLOOR DEMOLITION

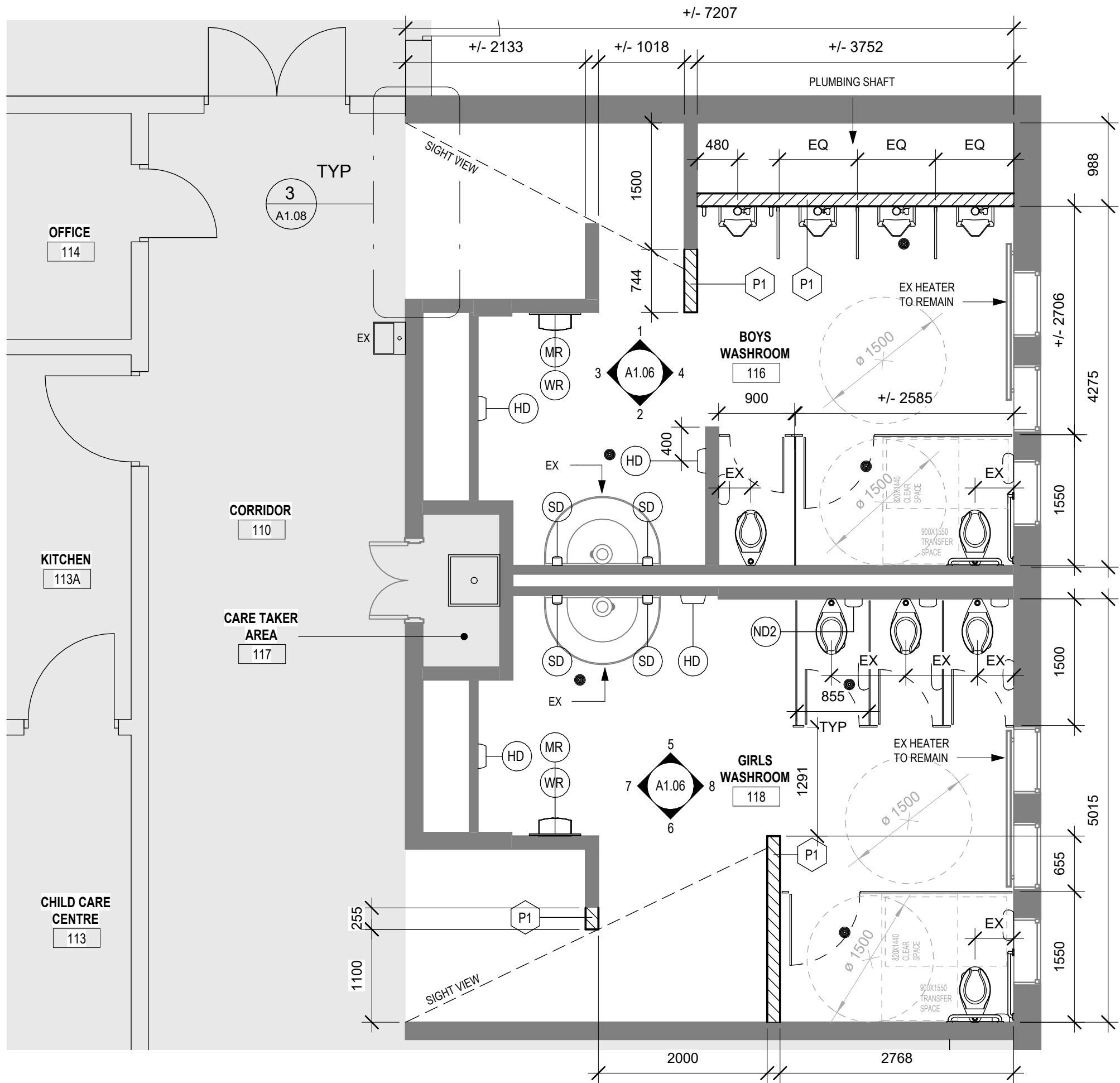
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checked: A.J.	project number: 25-25

DRAWING NO:

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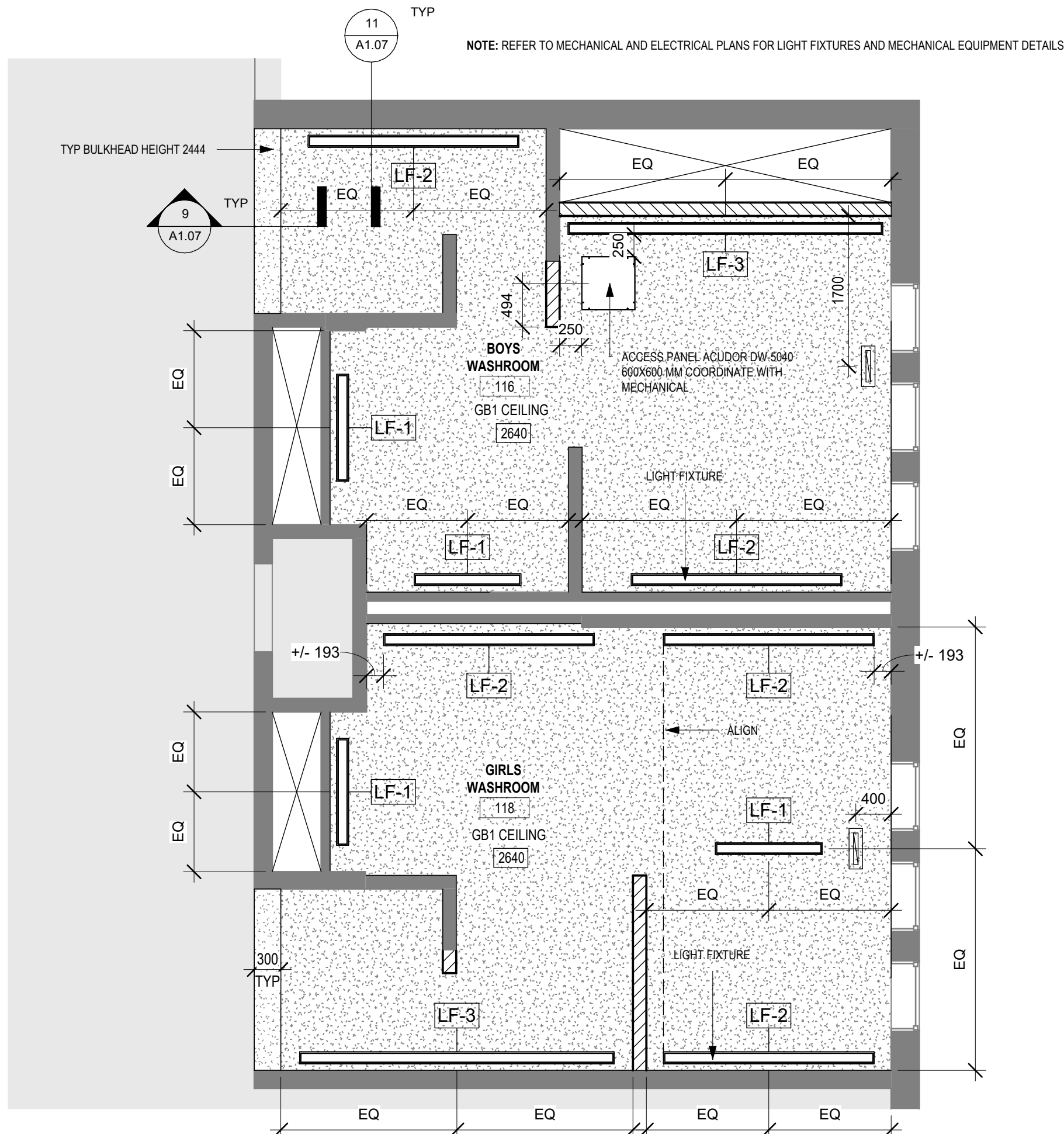
Revision



ROOMS 116, 118 (PARTIAL RENOVATION) PROPOSED FLOOR PLAN
SCALE: 1:50

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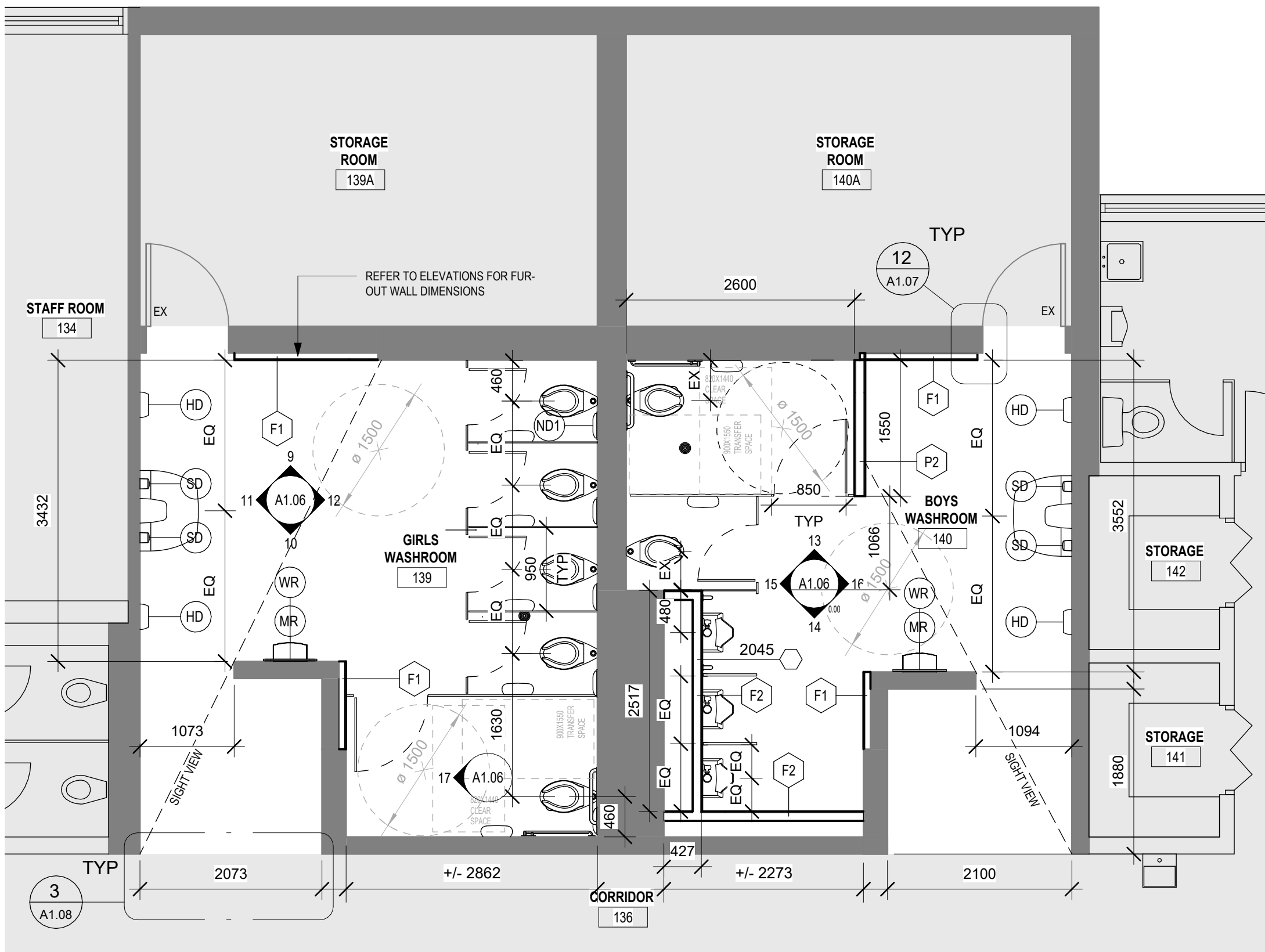
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ROOMS 116, 118 PROPOSED RCP
SCALE: 1:50

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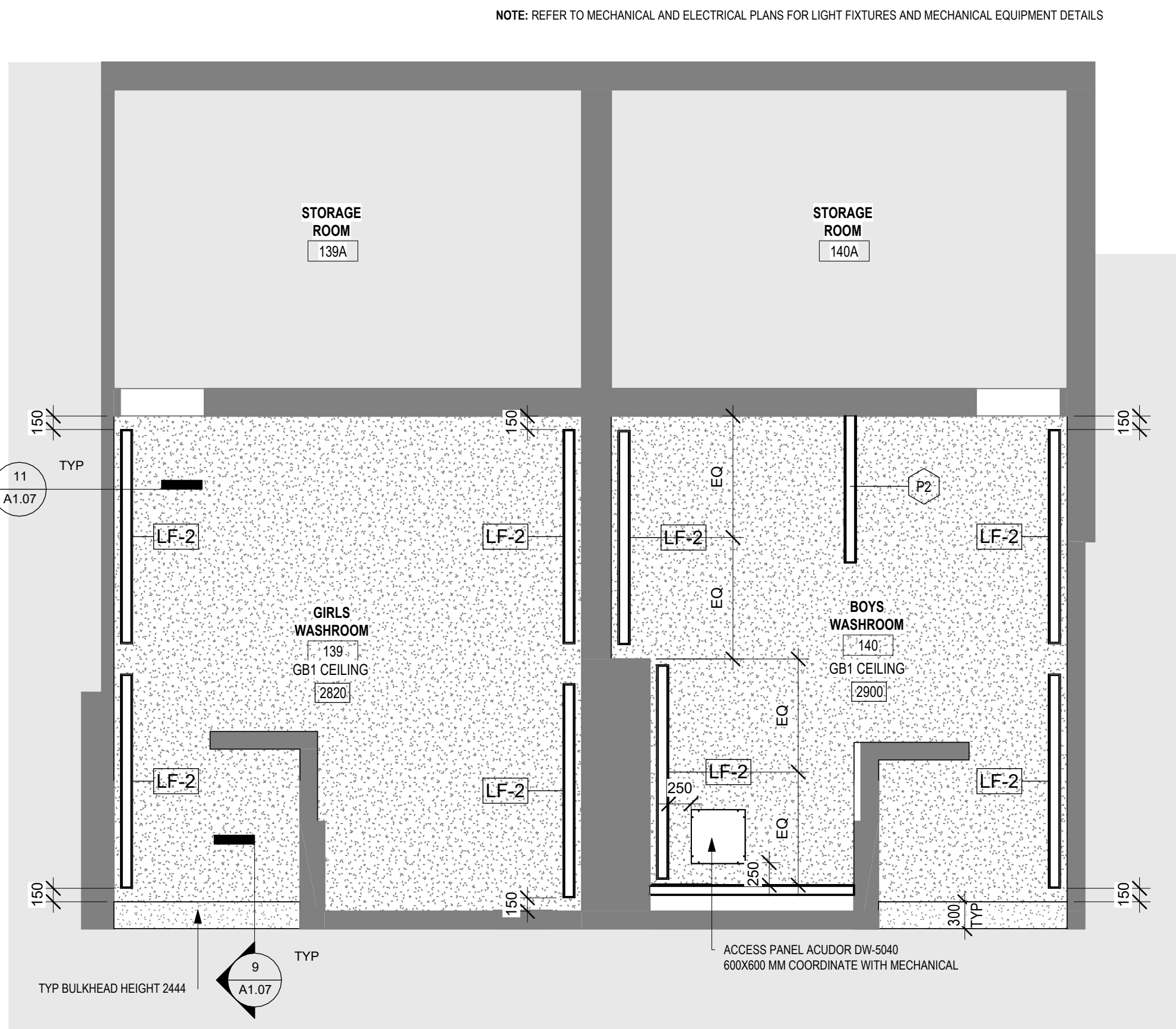
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ROOMS 139, 140 (FULL RENOVATION) PROPOSED LAYOUT FLOOR PLAN
SCALE: 1:50

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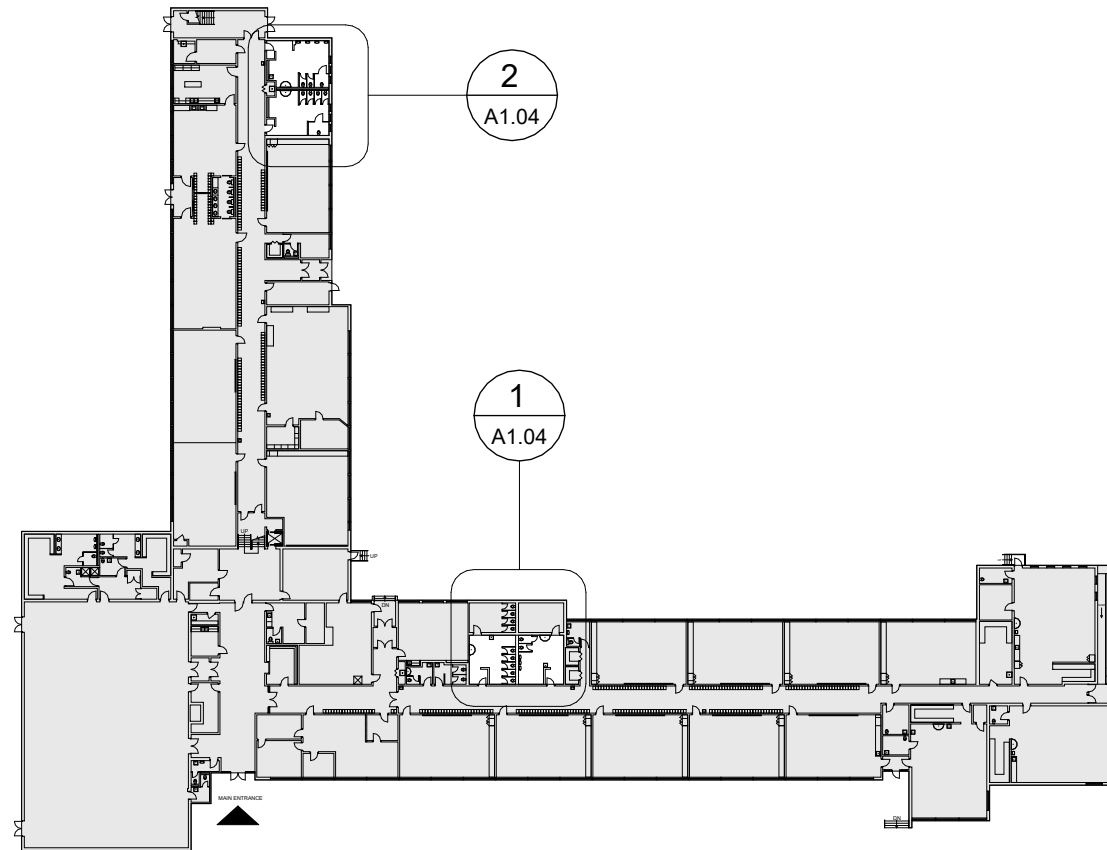
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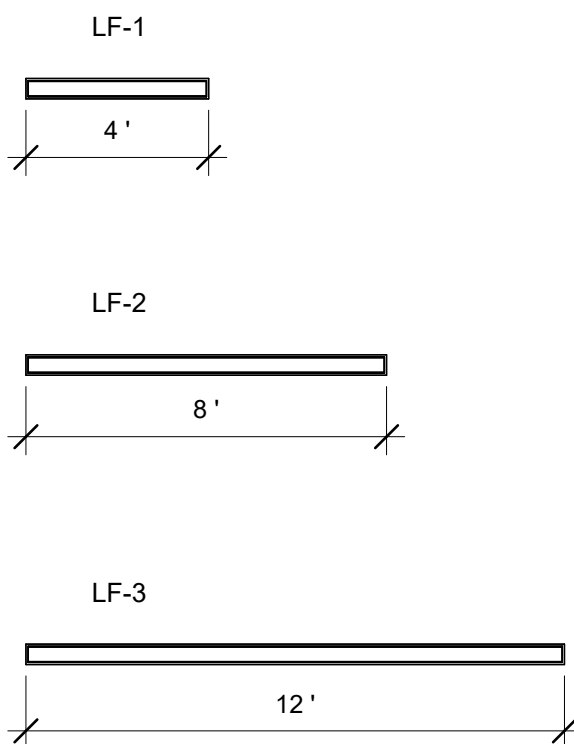
ROOMS 139, 139A, 140, 140A PROPOSED RCP
SCALE: 1:50

6

A1.04



GROUND FLOOR PROPOSED FLOOR PLAN - KEY MAP
SCALE: 1:850



LIGHT FIXTURES
SCALE: 1:50

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REVISIONS

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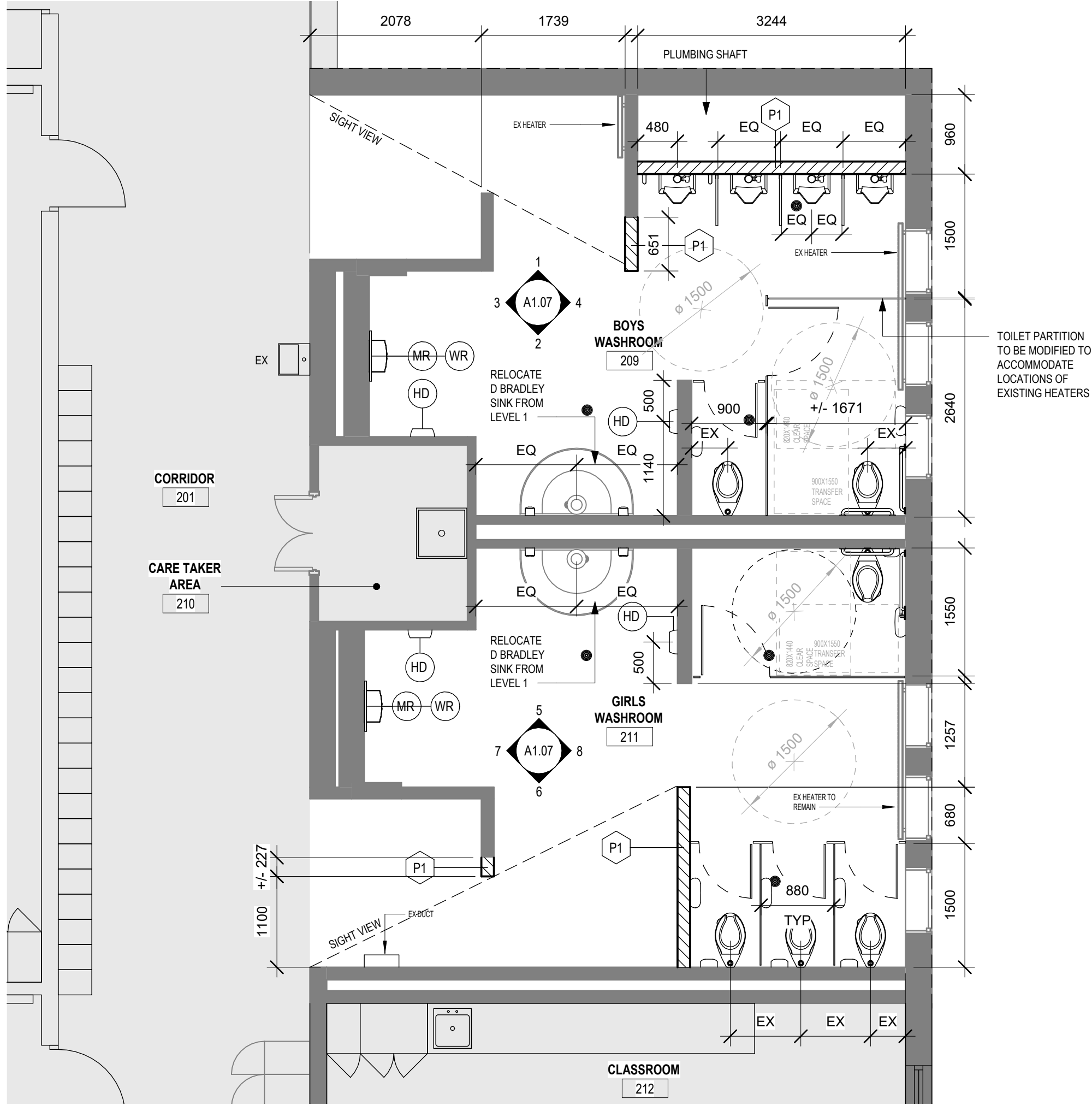
EMAIL: info@ajp.design 905-828-5121
https://ajp.design

project title:
2026-133-P02206 Chedoke
Elementary School
Washroom Renovations
500 Bendamere Ave., Hamilton, ON

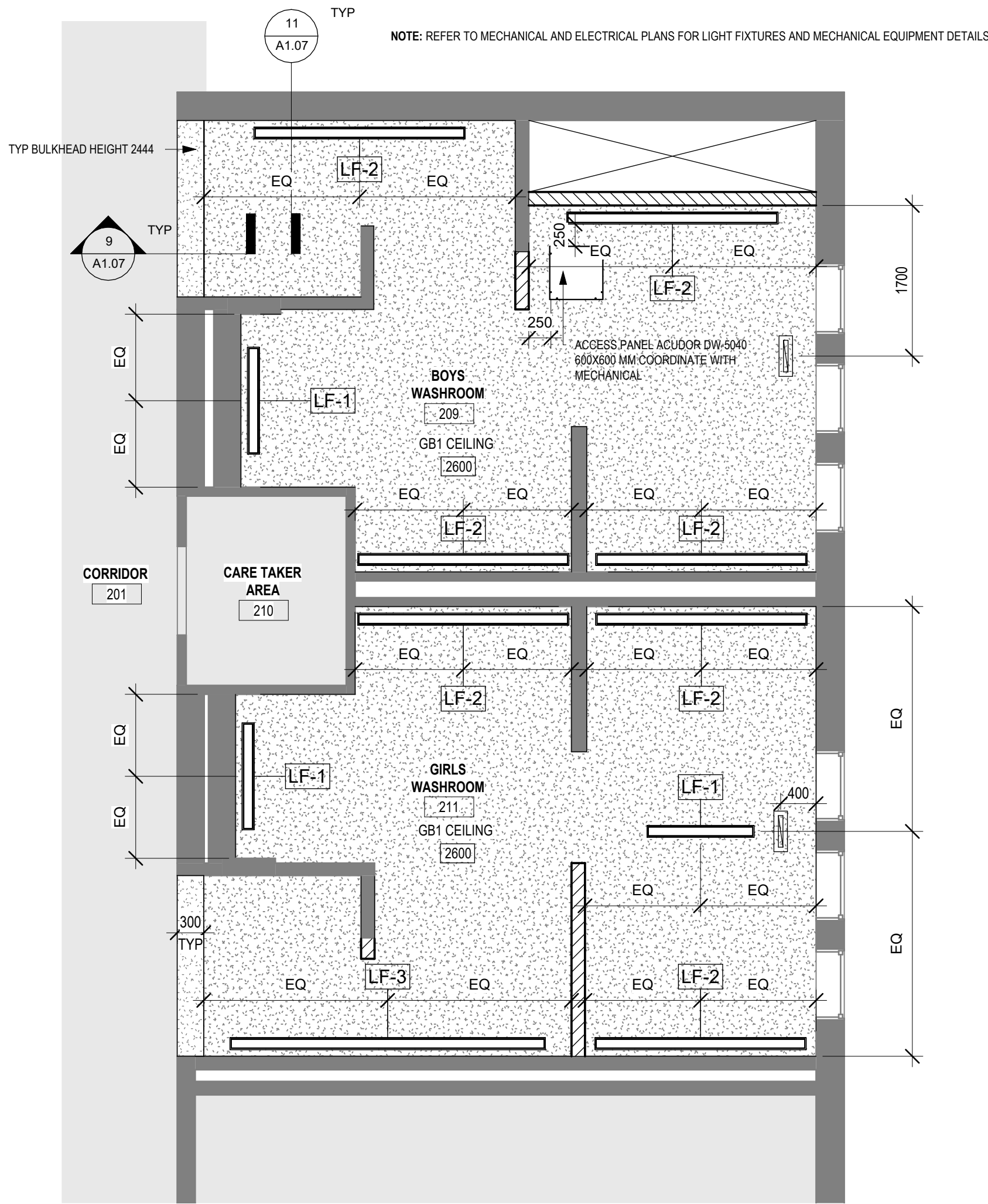
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GROUND FLOOR PROPOSED
FLOOR PLANS

drawn: AS	scale: As indicated
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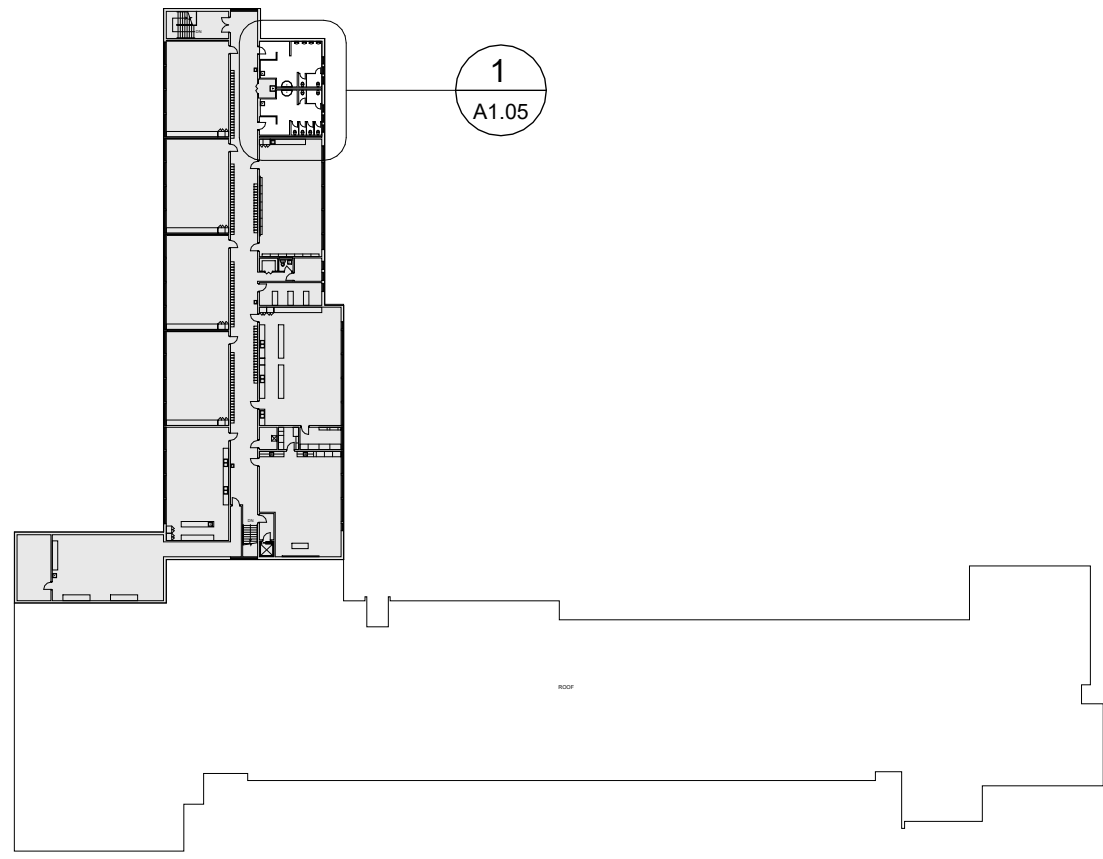
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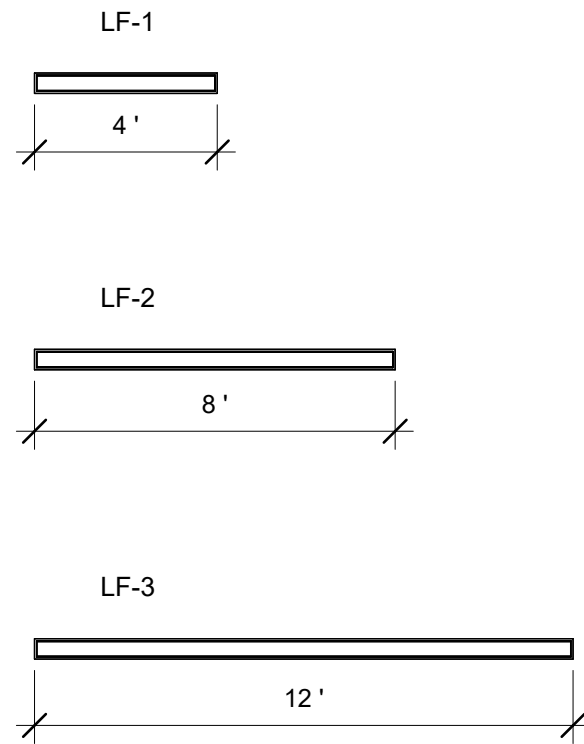
ROOMS 209, 211 (PARTIAL RENOVATION) PROPOSED LAYOUT FLOOR PLAN
SCALE: 1 : 50



ROOMS 209, 211 PROPOSED RCP
SCALE: 1 : 50



SECOND FLOOR PROPOSED FLOOR PLAN - KEY MAP
SCALE: 1 : 850

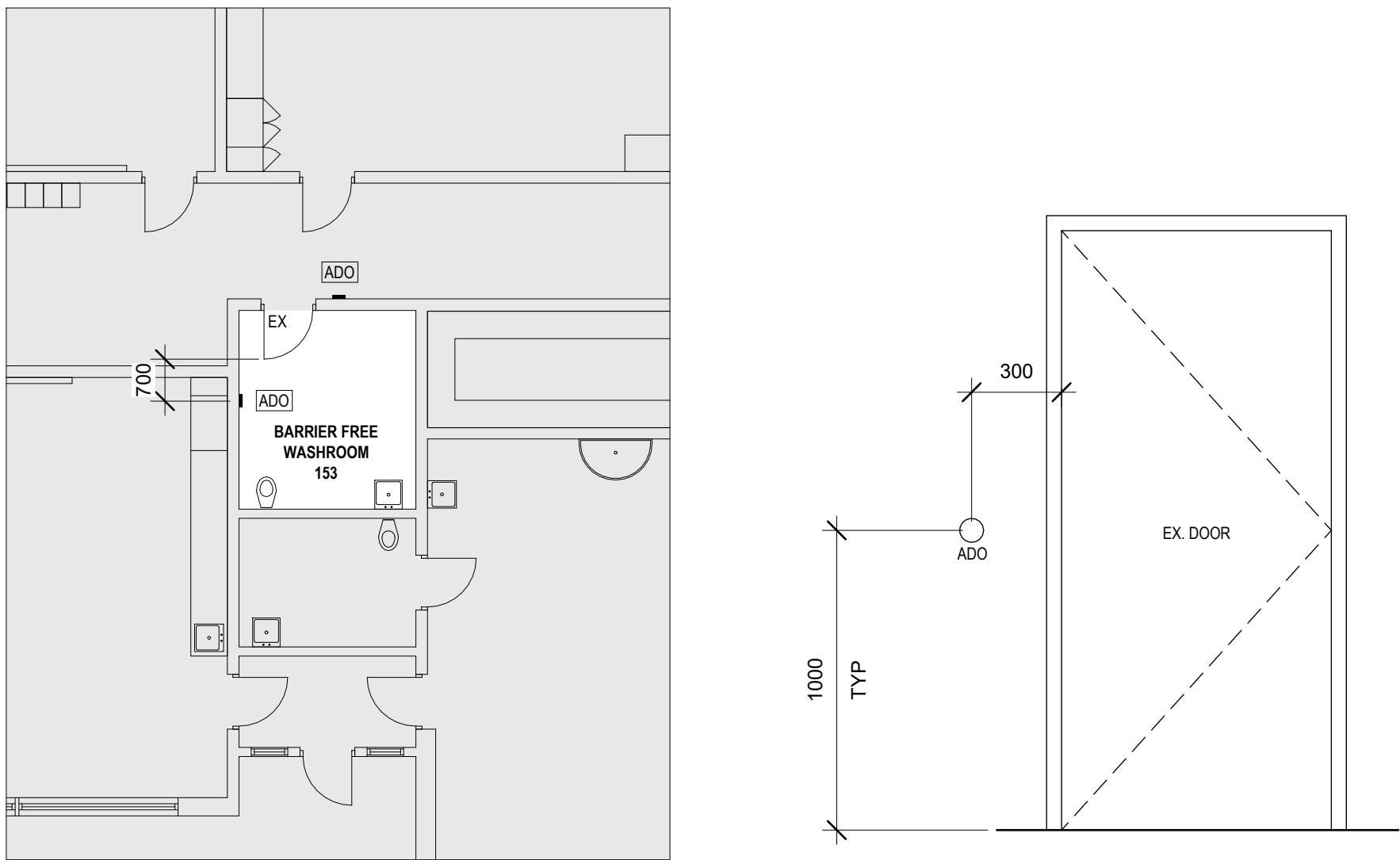


LIGHT FIXTURES
SCALE: 1 : 50

ROOM FINISH SCHEDULE							
ROOM NO.	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING		COMMENTS
					FINISH	HEIGHT	
116	BOYS WASHROOM	PORCELAIN TILE	PORCELAIN BASE*	CERAMIC TILE/PT-1	GB/PT-2	2640	ACCENT TILE AT WASHROOM ACCESSORIES — SEE ELEVATIONS FOR LOCATIONS.
118	GIRLS WASHROOM	PORCELAIN TILE	PORCELAIN BASE*	CERAMIC TILE/PT-1	GB/PT-2	2640	ACCENT TILE AT WASHROOM ACCESSORIES — SEE ELEVATIONS FOR LOCATIONS.
139	GIRLS WASHROOM	PORCELAIN TILE	CERAMIC TILE*	CERAMIC TILE/PT-1	GB/PT-2	2820	TILES ON ALL WALLS. SEE ELEVATIONS FOR HEIGHT INFORMATION.
140	BOYS WASHROOM	PORCELAIN TILE	CERAMIC TILE*	CERAMIC TILE/PT-1	GB/PT-2	2900	TILES ON ALL WALLS. SEE ELEVATIONS FOR HEIGHT INFORMATION.
209	BOYS WASHROOM	PORCELAIN TILE	PORCELAIN BASE*	CERAMIC TILE/PT-1	GB/PT-2	2600	ACCENT TILE AT WASHROOM ACCESSORIES — SEE ELEVATIONS FOR LOCATIONS.
211	GIRLS WASHROOM	PORCELAIN TILE	PORCELAIN BASE*	CERAMIC TILE/PT-1	GB/PT-2	2600	ACCENT TILE AT WASHROOM ACCESSORIES — SEE ELEVATIONS FOR LOCATIONS.

CERAMIC TILE*: CERAMIC TILE WITH SCHLUTER DILEX-AHKA PROFILE AT TRANSITION

PORCELAIN BASE*: PORCELAIN TILE COLOR BELLINI SOFT



ROOM 153 NEW ADO
SCALE: 1 : 100

ROOM 153 EXTERIOR DOOR ELEVATION
SCALE: 1 : 20

WASHROOM ACCESSORIES ABBREVIATIONS

CH	COAT HOOKS INTEGRATED IN TOILET PARTITIONS
HD	HAND DRYER (SEE ELECTRICAL DWGS)
PTD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER, INSTALLED BY GC)
SD	SOAP DISPENSER (SUPPLIED BY OWNER, INSTALLED BY GC)
TPD	TOILET PAPER DISPENSER
GB1	STRAIGHT GRAB BAR BOBRICK MODEL B-5806 x 24" 24" (610MM)
GB2	L - SHAPED GRAB BAR BOBRICK MODEL B-6898.99, 30" x 30" (762MM X 762MM)
ND-1	NAPKIN DISPOSAL: BRADLEY MODEL 4A00-RECESSED, SATIN FINISH (SUPPLIED BY OWNER, INSTALLED BY GC)
ND-2	NAPKIN DISPOSAL: BRADLEY MODEL 4A10-11 SURFACE MOUNTED, SATIN FINISH (SUPPLIED BY OWNER, INSTALLED BY GC)
MR	MIRROR: BRADLEY MODEL 7B1-0024360, NO SHELF, 24" X 36"
WR	WASTE RECEPTACLE: BOBRICK, B-277
PS	PRIVACY SCREEN: ASI WALL-HUNG SCREEN 48" HEIGHT COLOR: GRAY 2125

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HWDSB

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project title:
2026-133-P02206 Chedoke Elementary School Washroom Renovations
500 Bendamere Ave., Hamilton, ON

drawing title:
SECOND FLOOR PROPOSED FLOOR PLANS

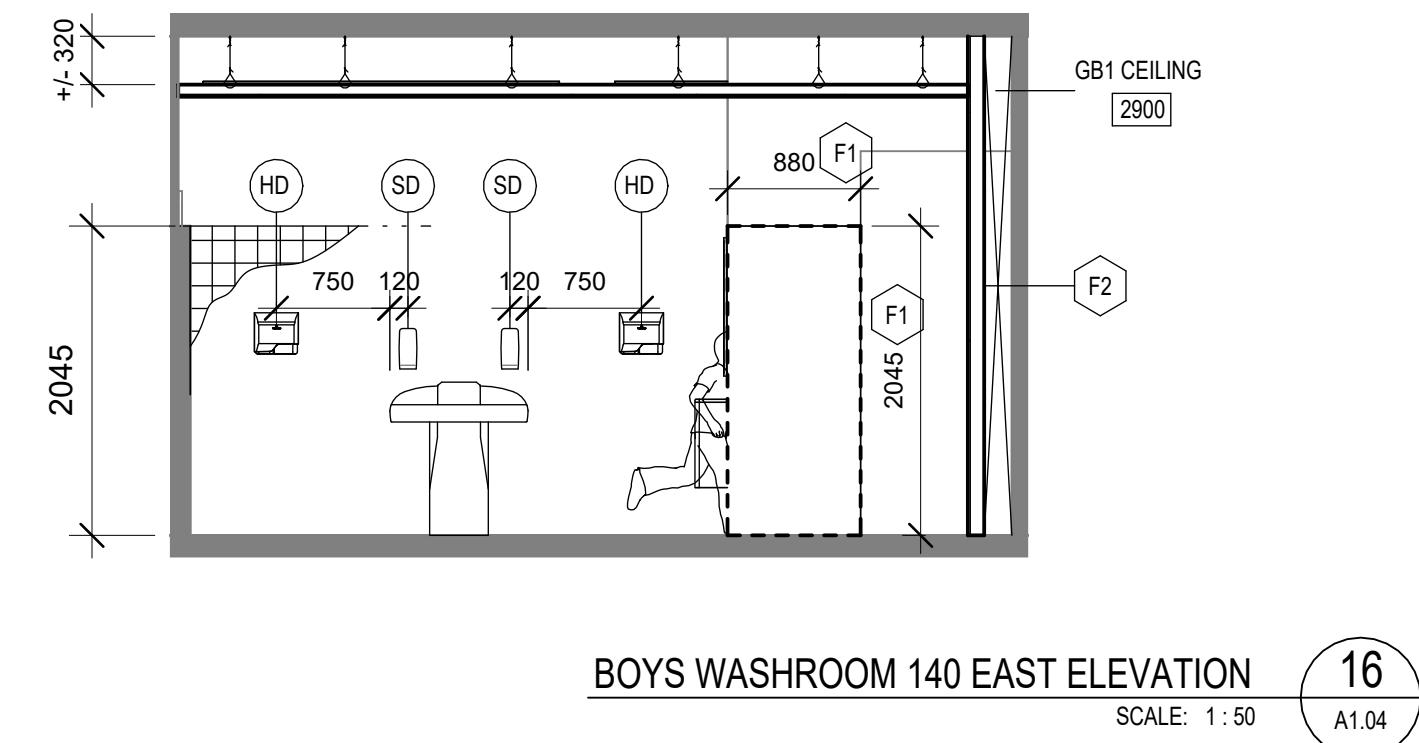
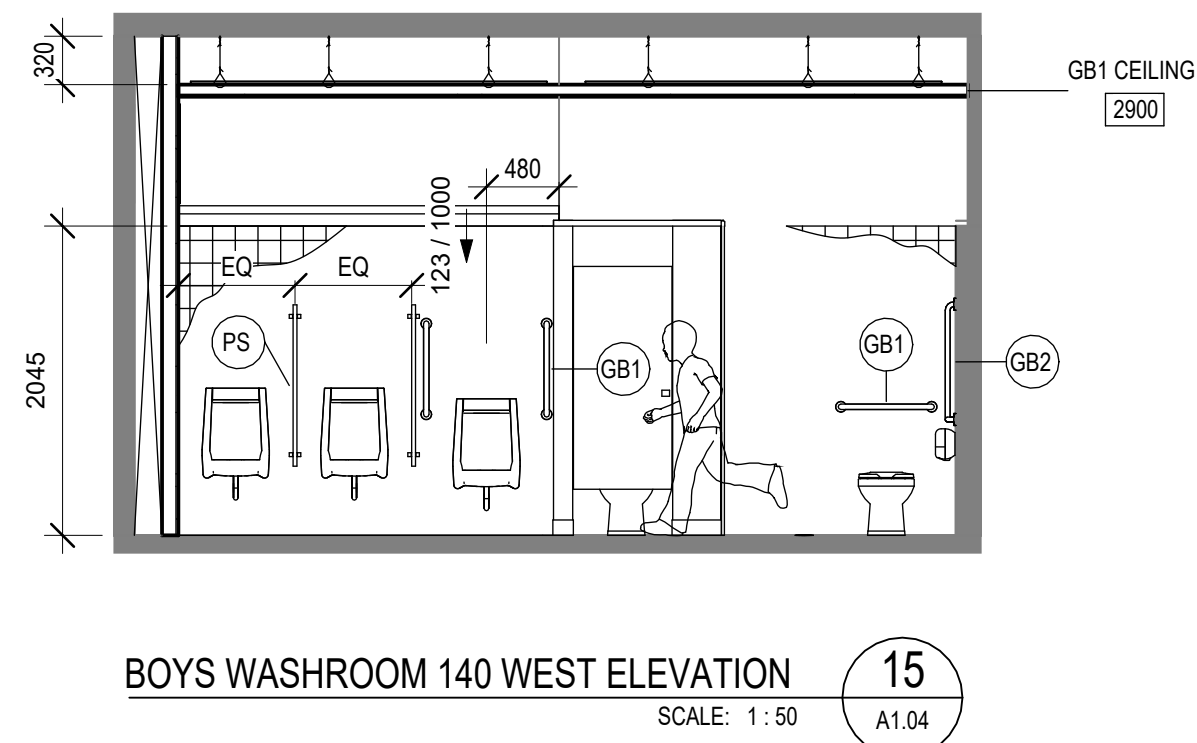
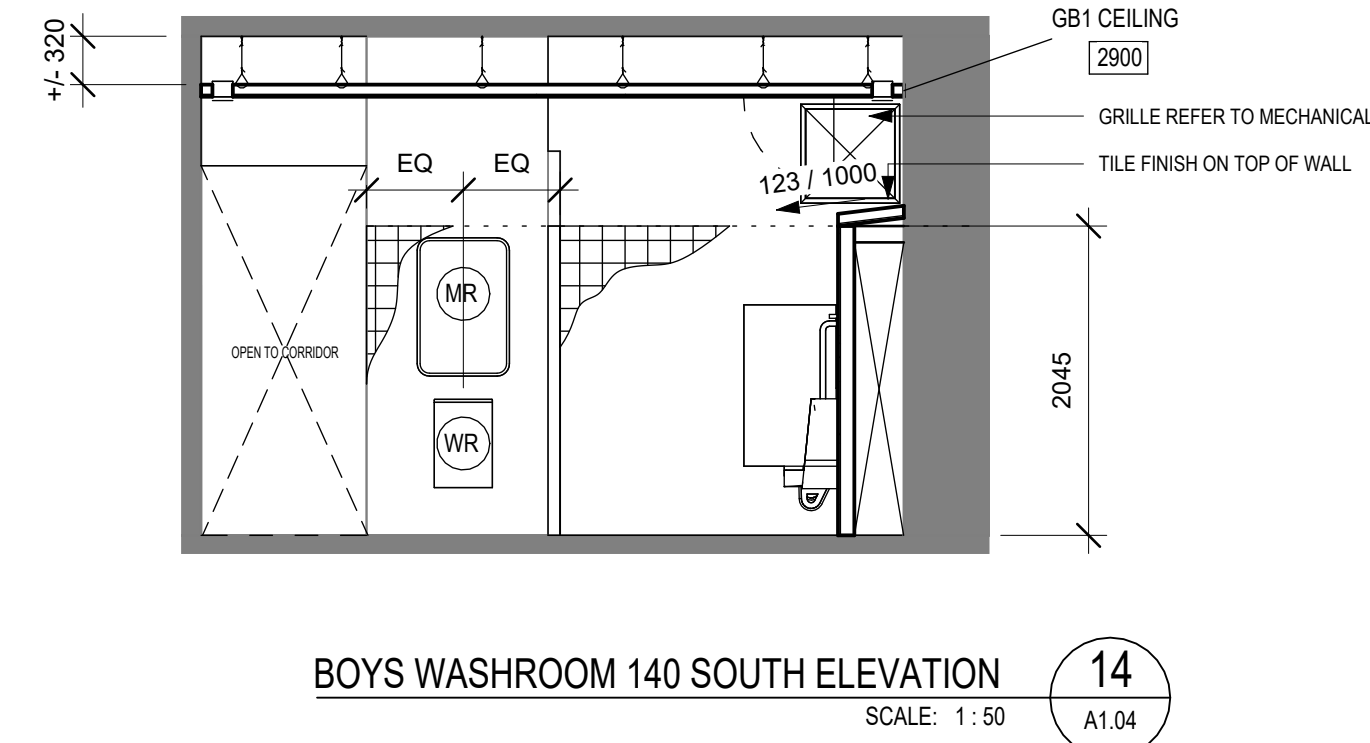
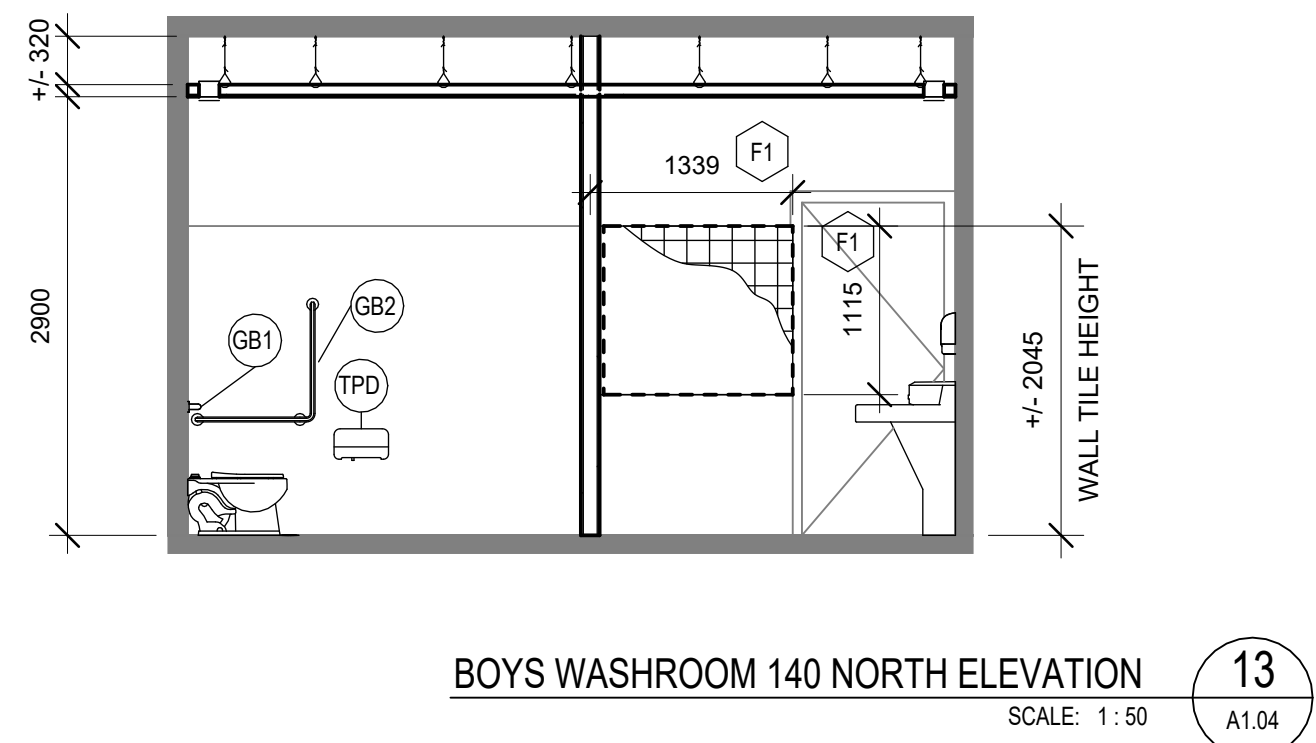
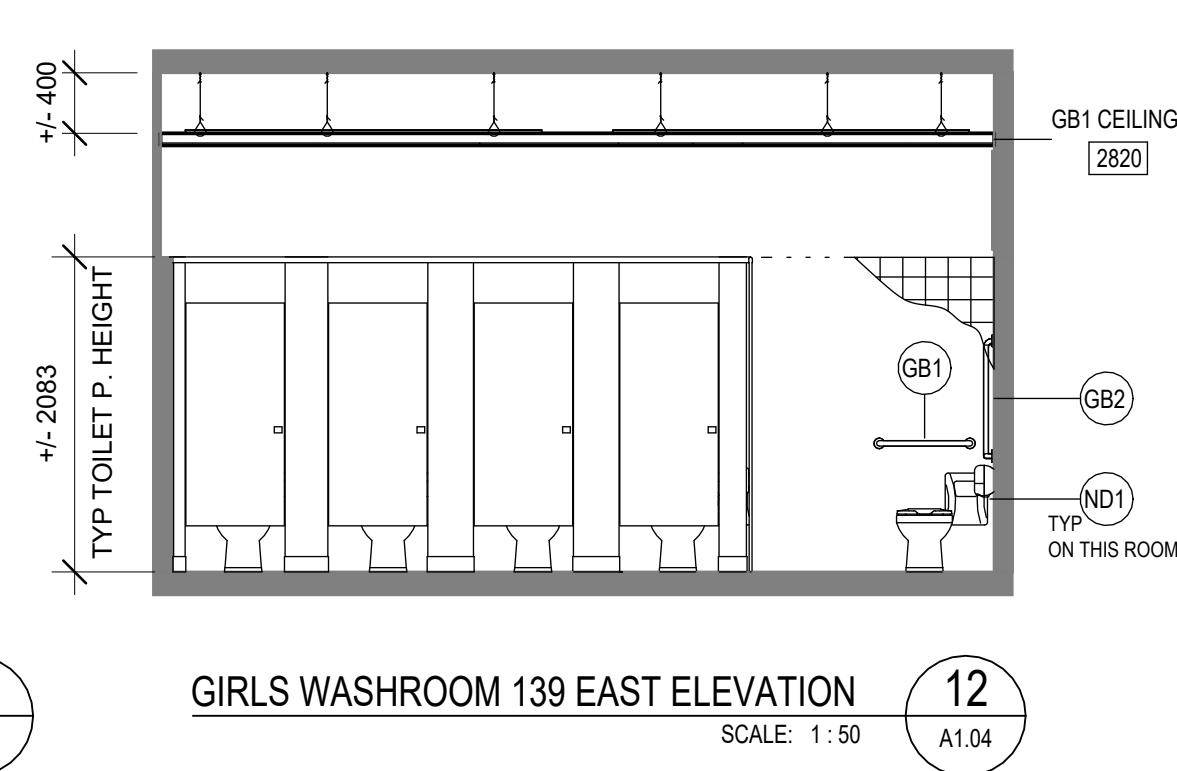
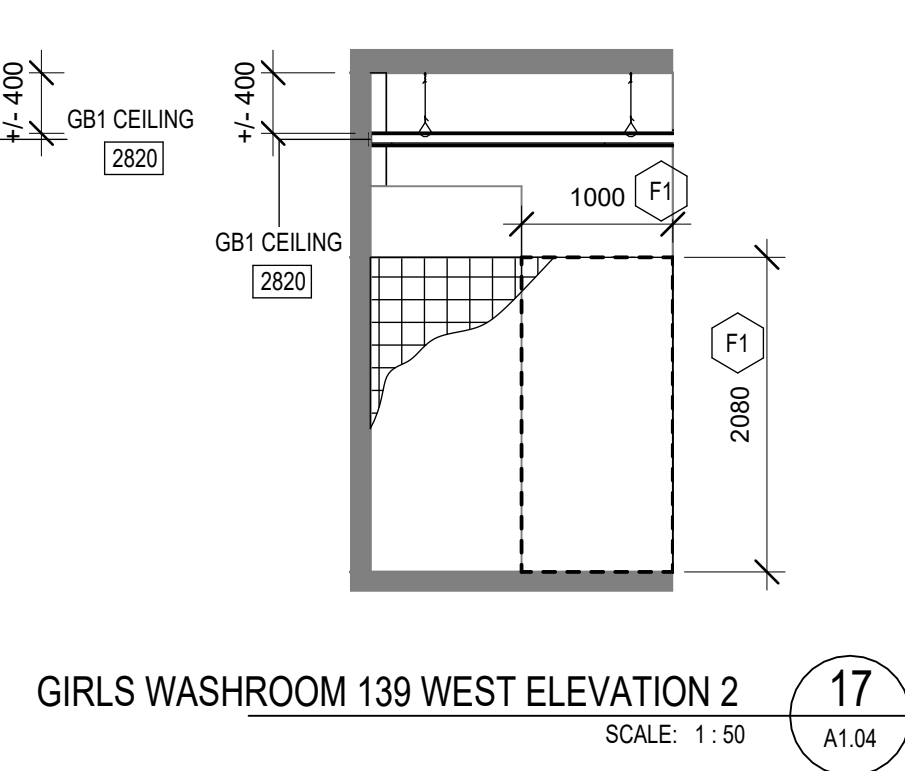
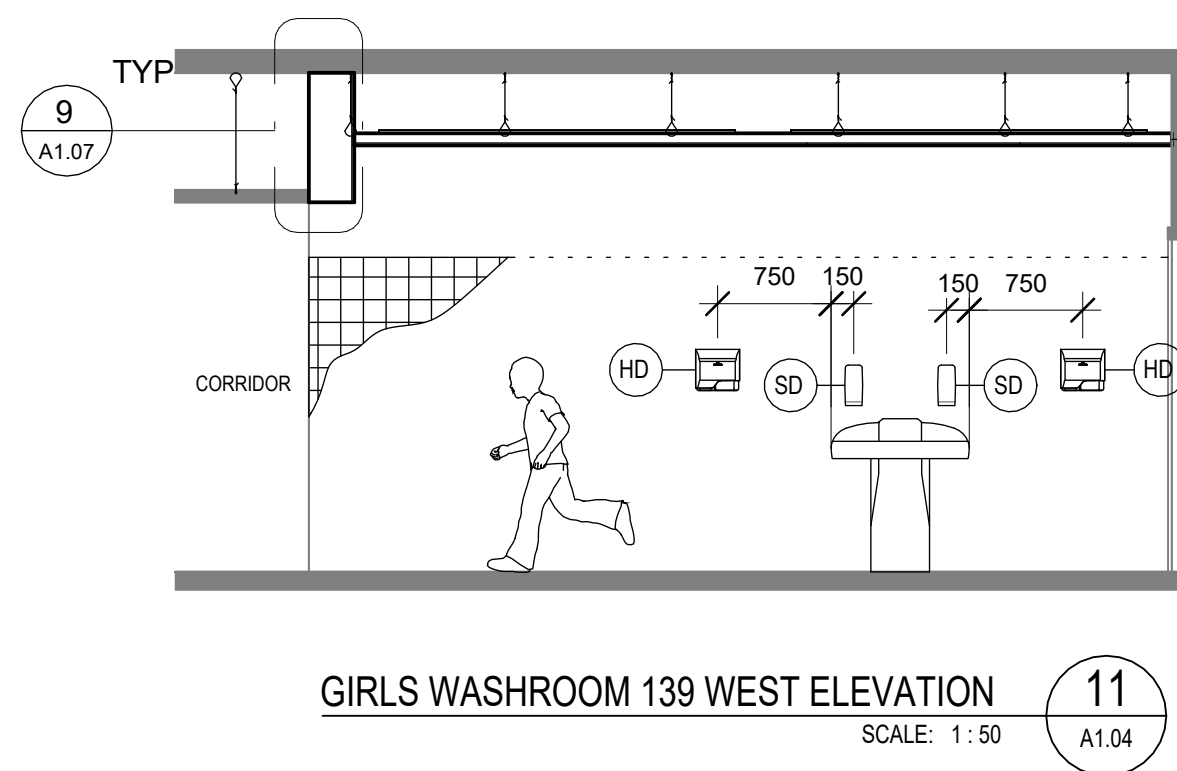
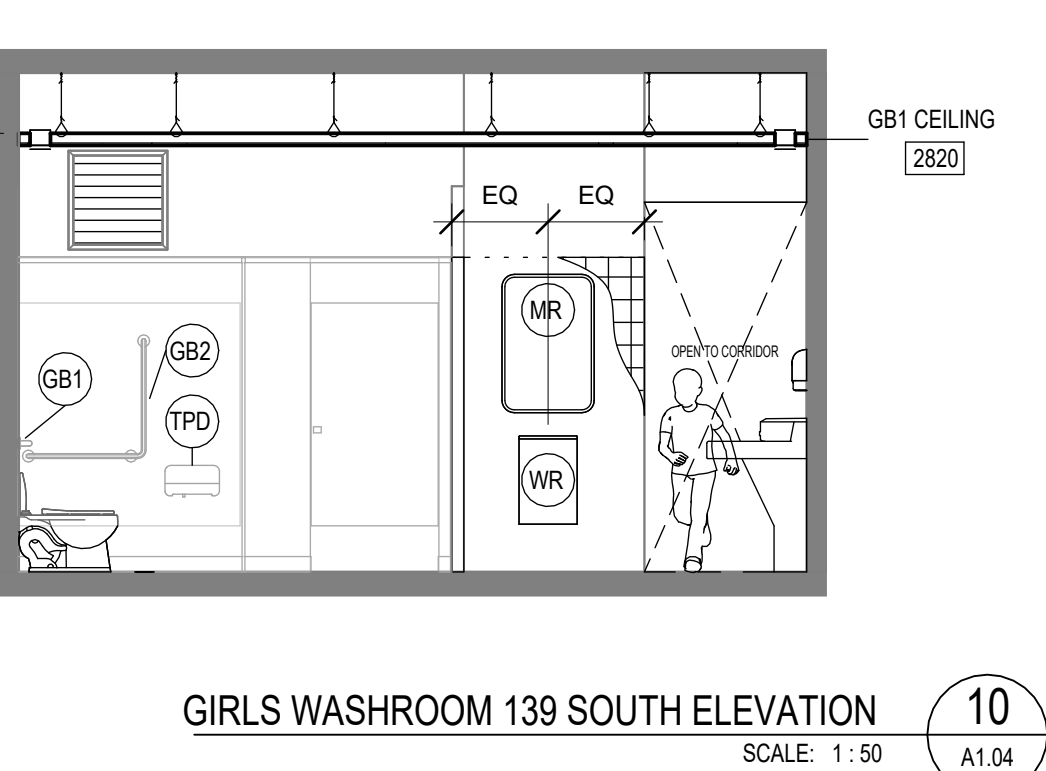
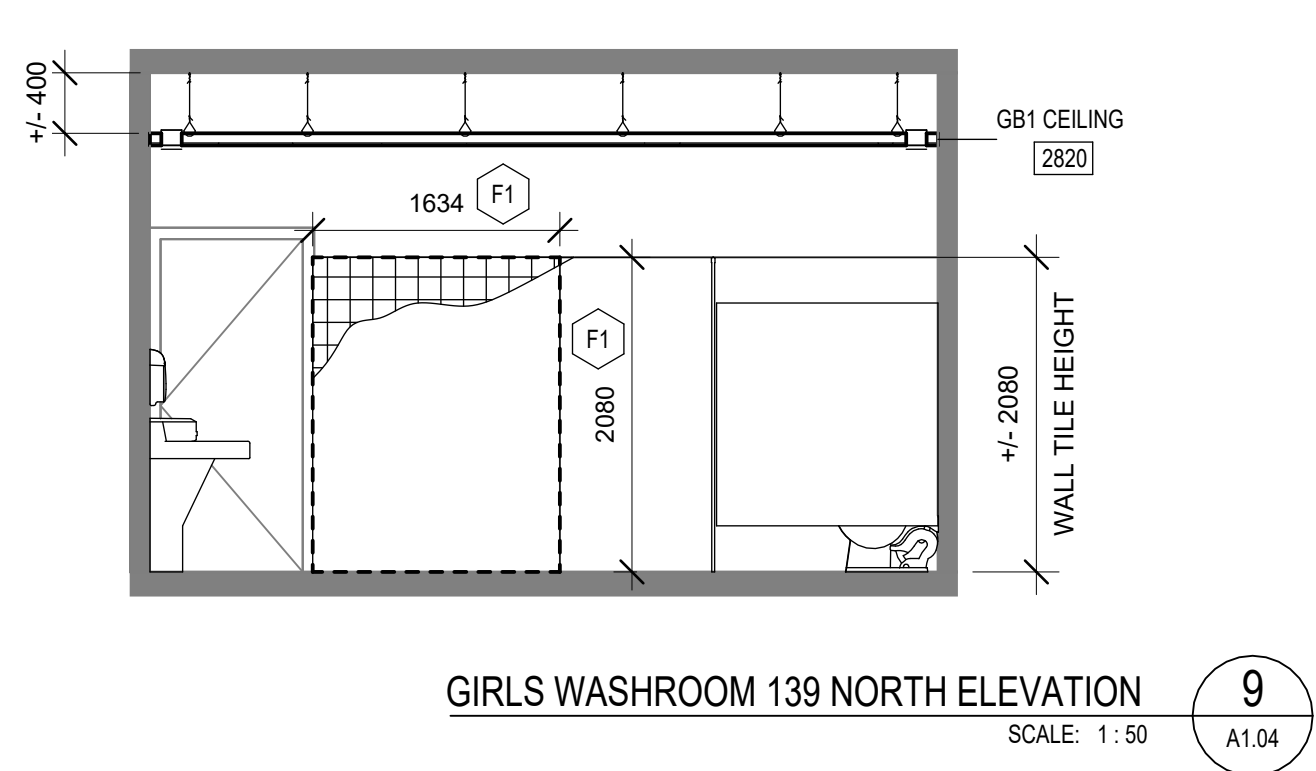
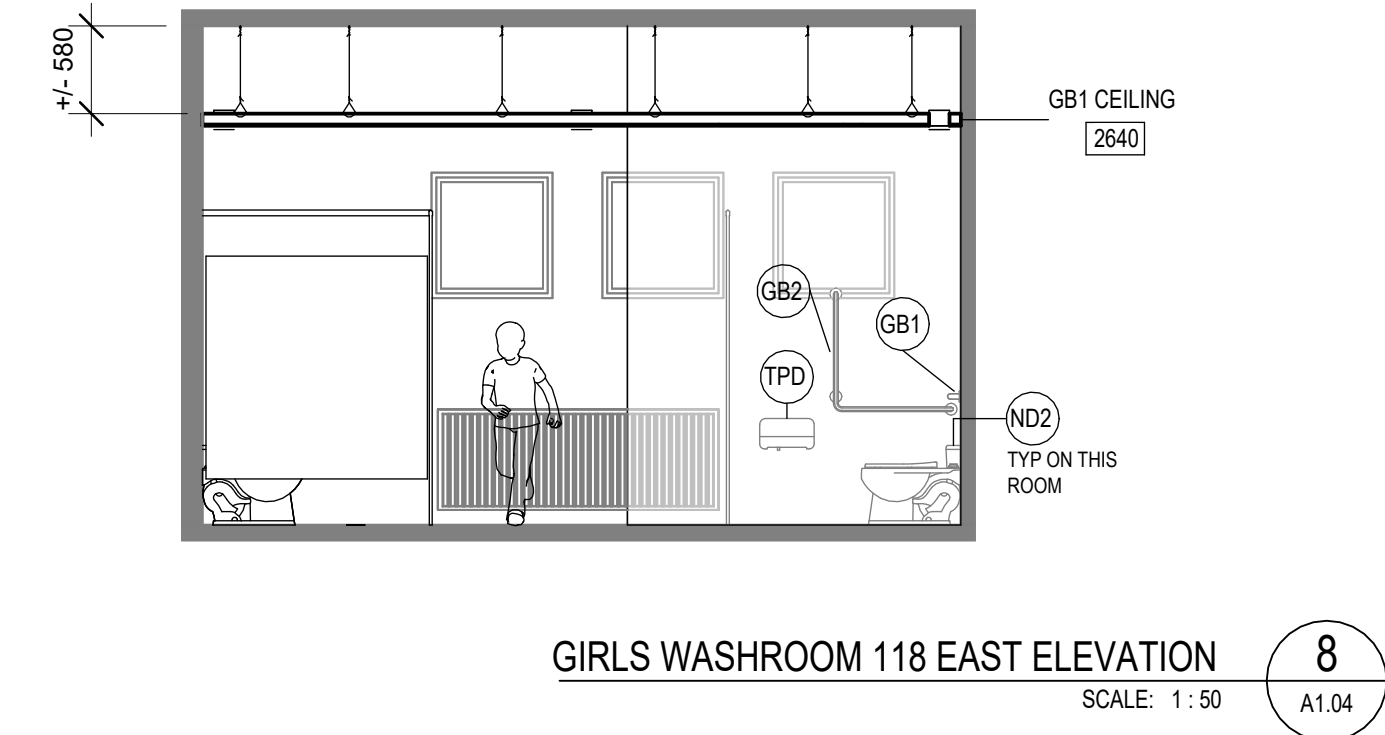
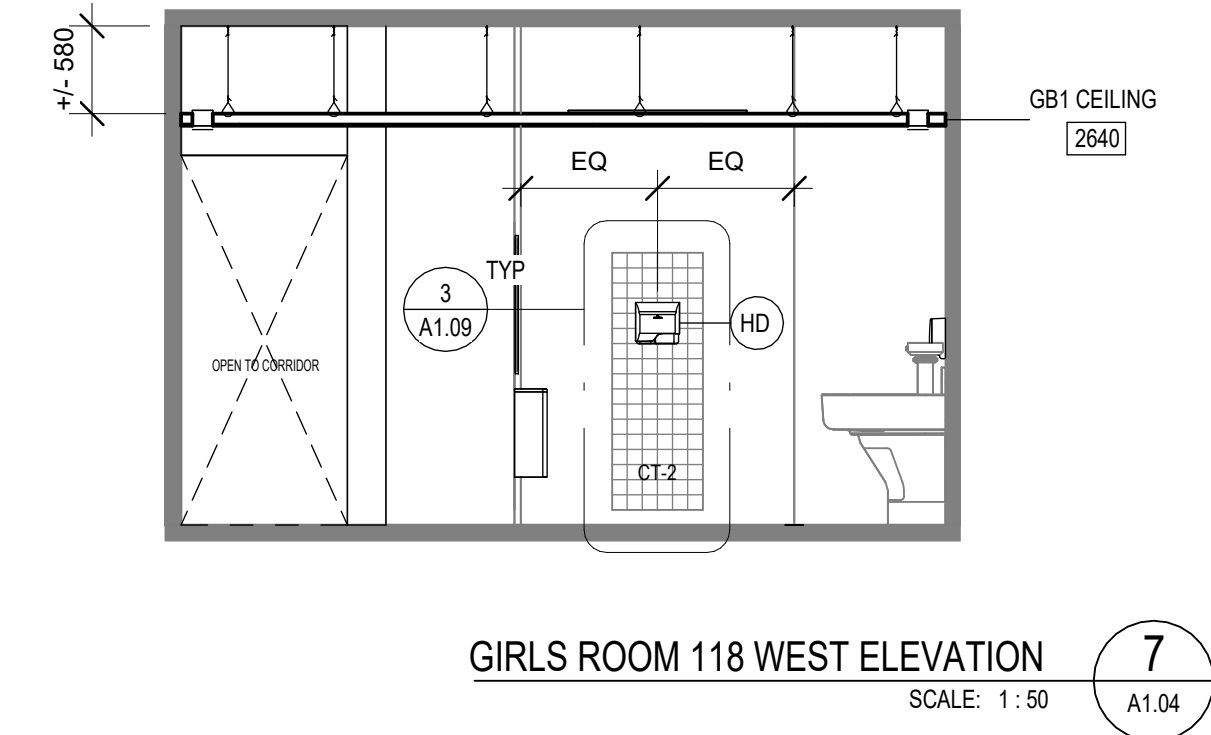
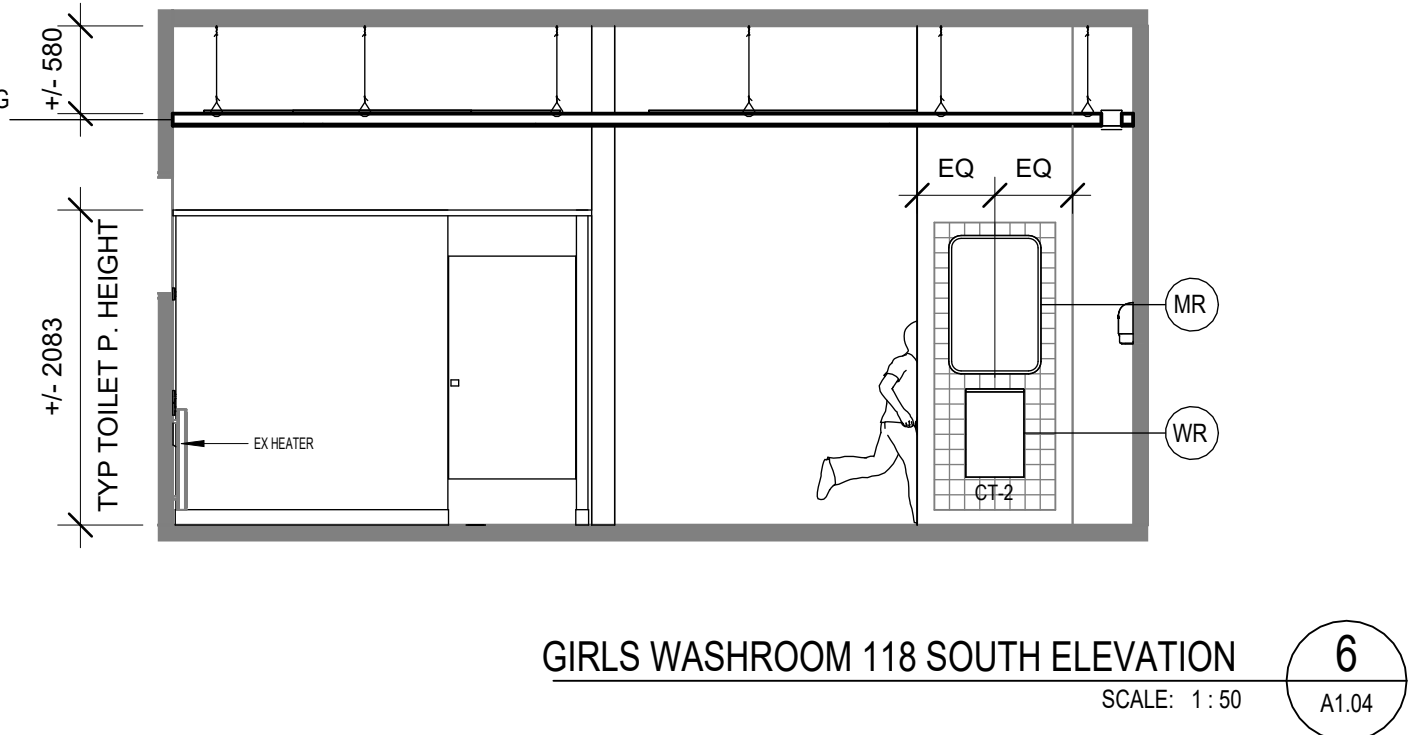
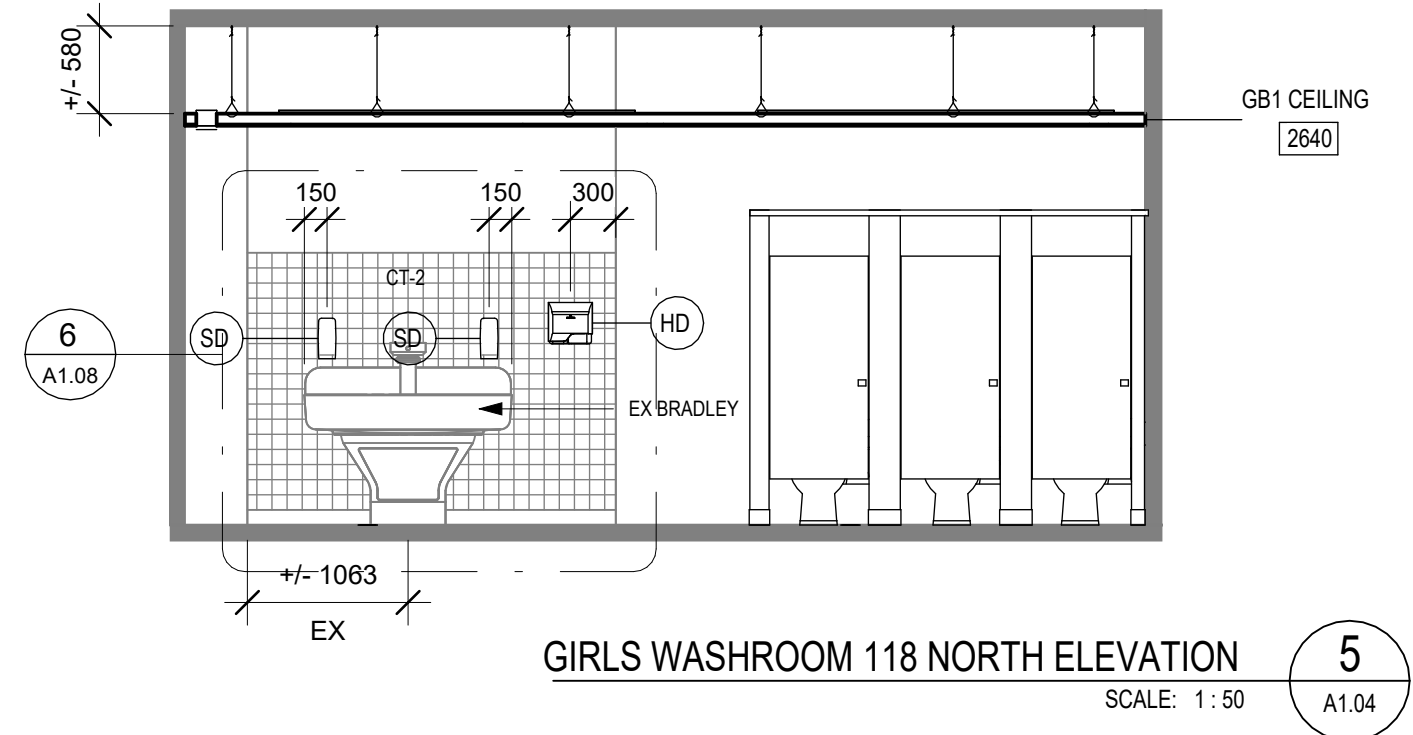
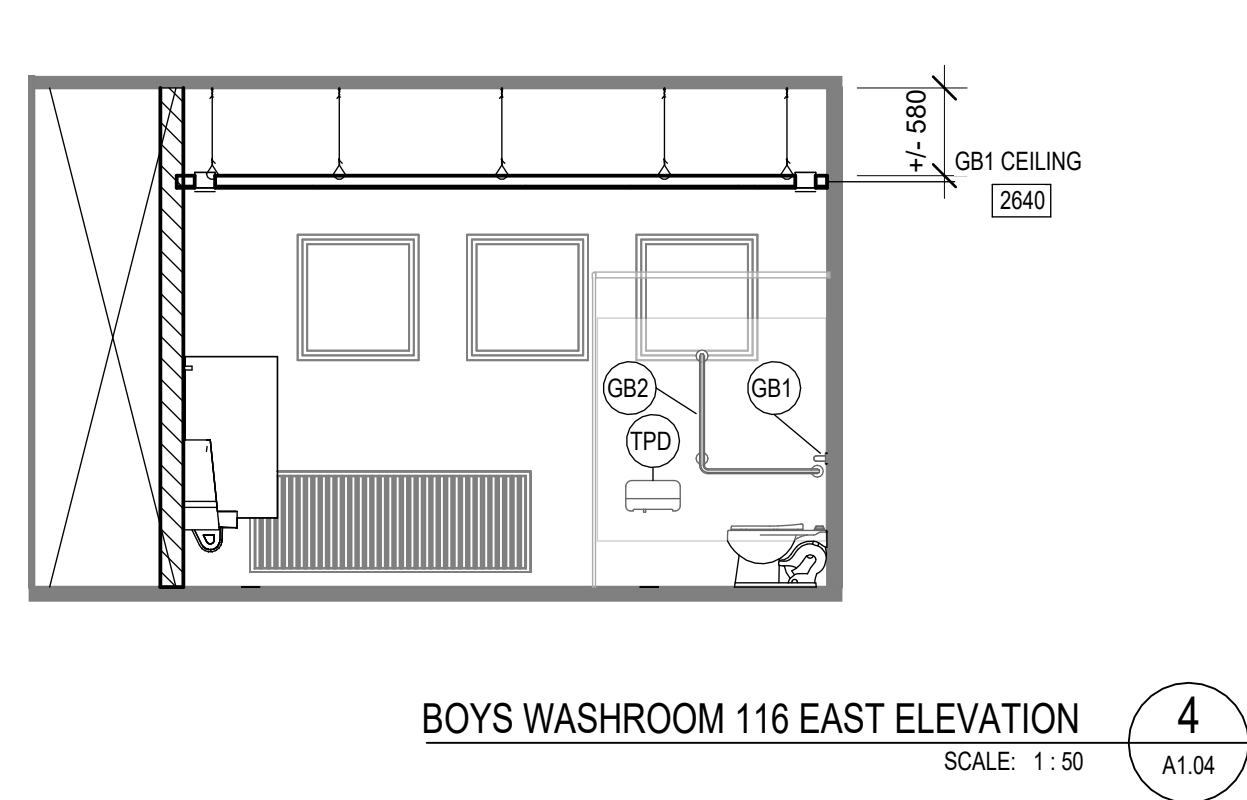
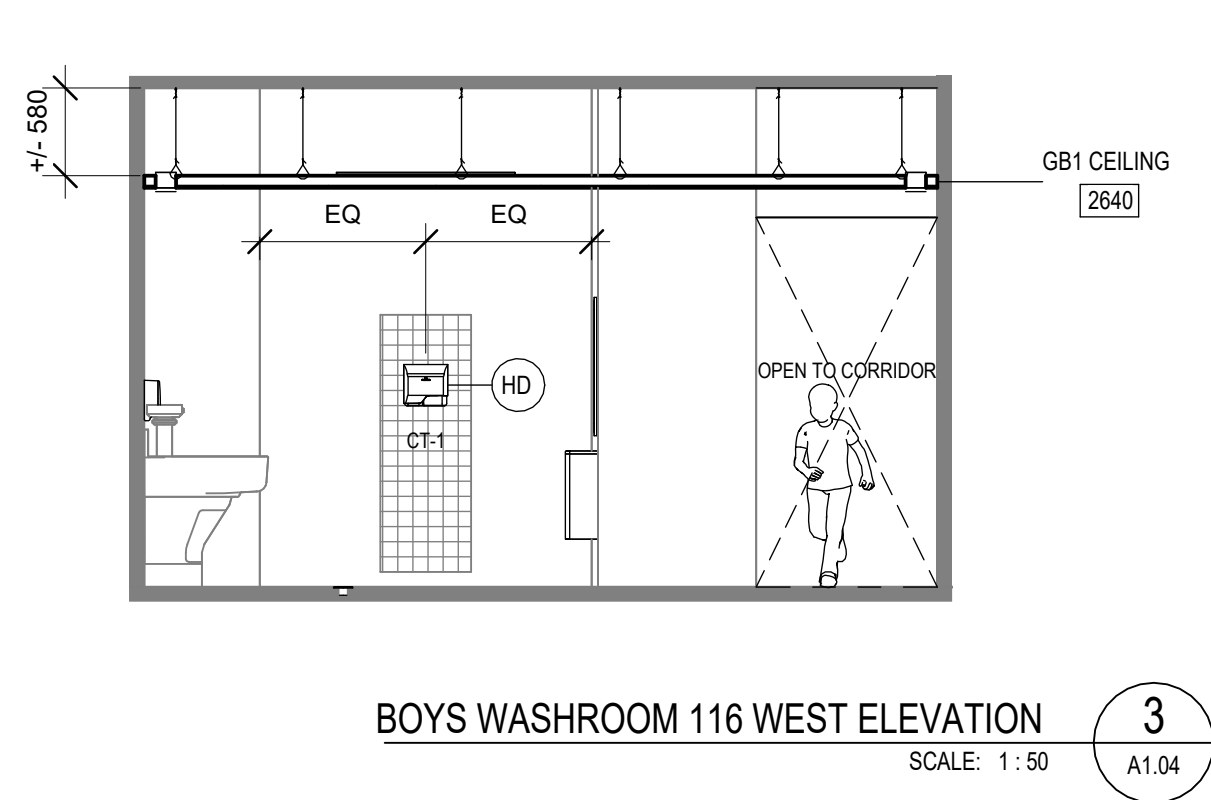
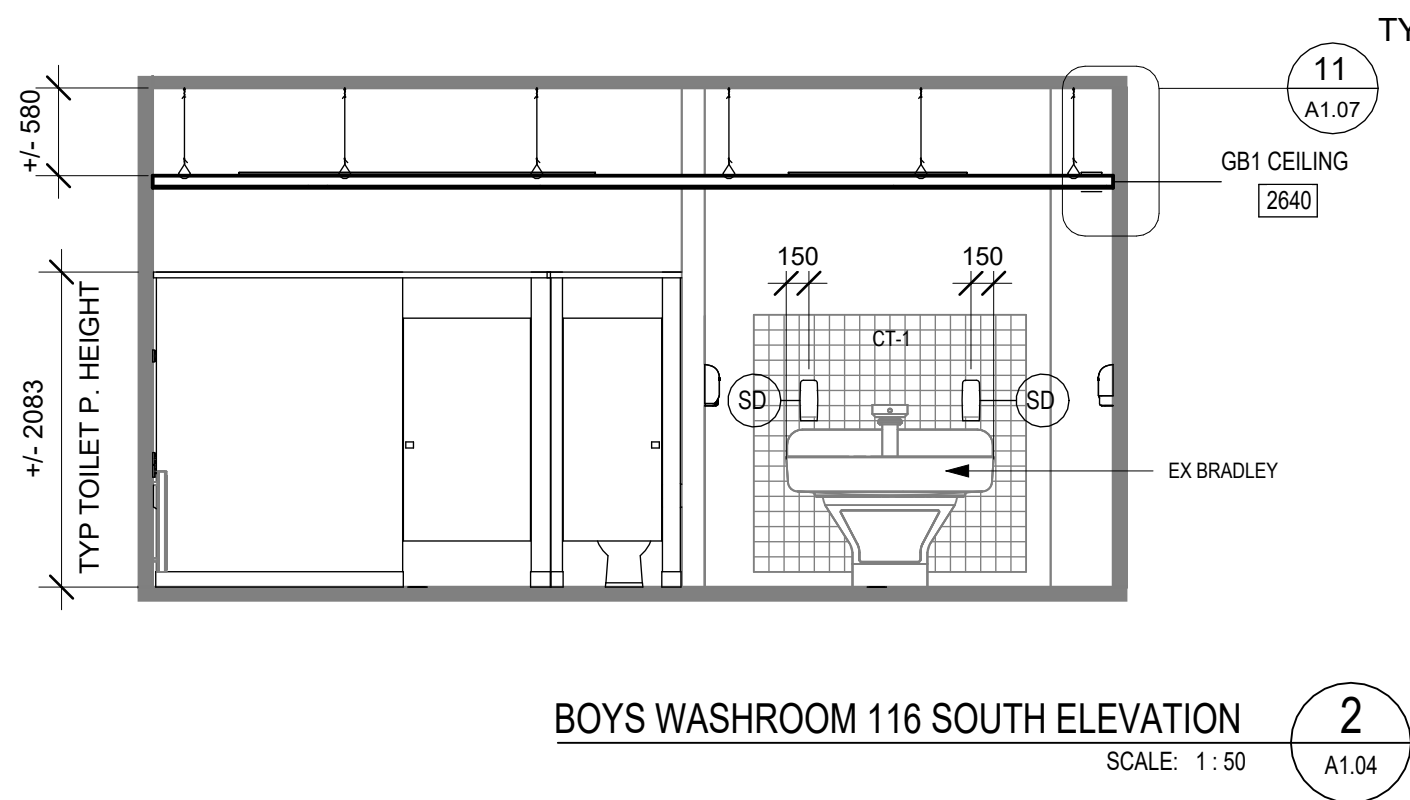
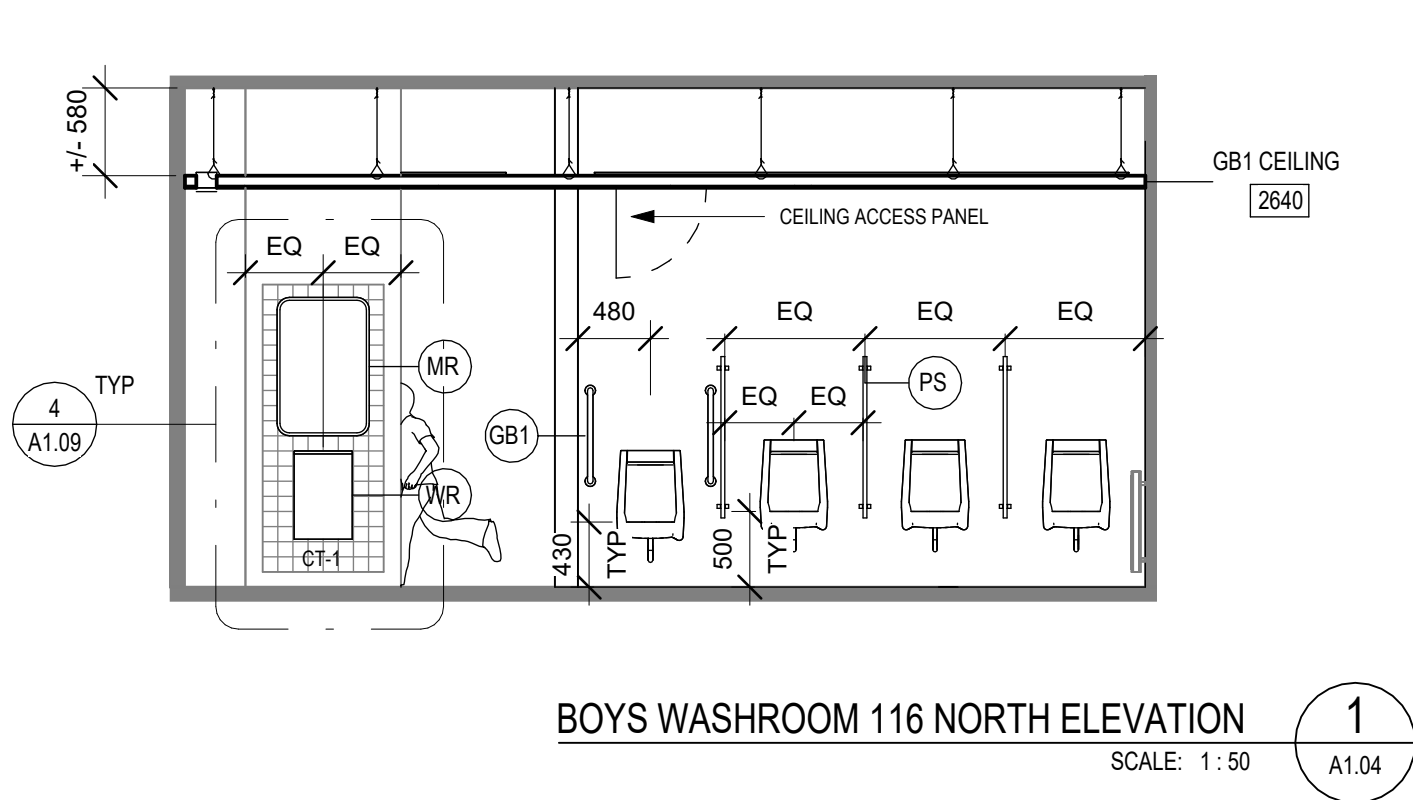
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DRAWING NO:

A1.05

2

Revision



WASHROOM ACCESSORIES ABBREVIATIONS	
CH	COAT HOOKS INTEGRATED IN TOILET PARTITIONS
HD	HAND DRYER (SEE ELECTRICAL DWGS)
PTD	PAPER TOWEL DISPENSER (SUPPLIED BY OWNER, INSTALLED BY GC)
SD	SOAP DISPENSER (SUPPLIED BY OWNER, INSTALLED BY GC)
TPD	TOILET PAPER DISPENSER
GB1	STRAIGHT GRAB BAR BOBRICK MODEL B-5806 x 24" 24" (610MM)
GB2	L - SHAPED GRAB BAR BOBRICK MODEL B-6898.99, 30" x 30" (762MM X 762MM)
ND-1	NAPKIN DISPOSAL: BRADLEY MODEL 4A00-RECESSED SATIN FINISH (SUPPLIED BY OWNER, INSTALLED BY GC)
ND-2	NAPKIN DISPOSAL: BRADLEY MODEL 4A10-11 SURFACE MOUNTED, SATIN FINISH (SUPPLIED BY OWNER, INSTALLED BY GC)
MR	MIRROR: BRADLEY MODEL 7B1-0024360, NO SHELF, 24" X 36"
WR	WASTE RECEPTACLE: BOBRICK, B-277
PS	PRIVACY SCREEN: ASI WALL-HUNG SCREEN 48" HEIGHT COLOR: GRAY 2125

project title:	2026-133-P02206 Chedoke Elementary School Washroom Renovations
drawing title:	GROUND FLOOR PROPOSED INTERIOR ELEVATIONS
drawn:	AS
scale:	As indicated
checked:	AJ
project number:	25-25
drawing no:	A1.06
revision:	2

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No.	DESCRIPTION	DATE
2	ISSUED FOR CONSTRUCTION	26/06/05
1	ISSUED FOR TENDER	26/03/25
0	ISSUED FOR BUILDING PERMIT	25/12/18

REVISIONS

SEAL:

HWDSB

Benexsys

AMPA J ARCHITECTS INC.

EMAIL: info@ampaj.com 905-928-5121

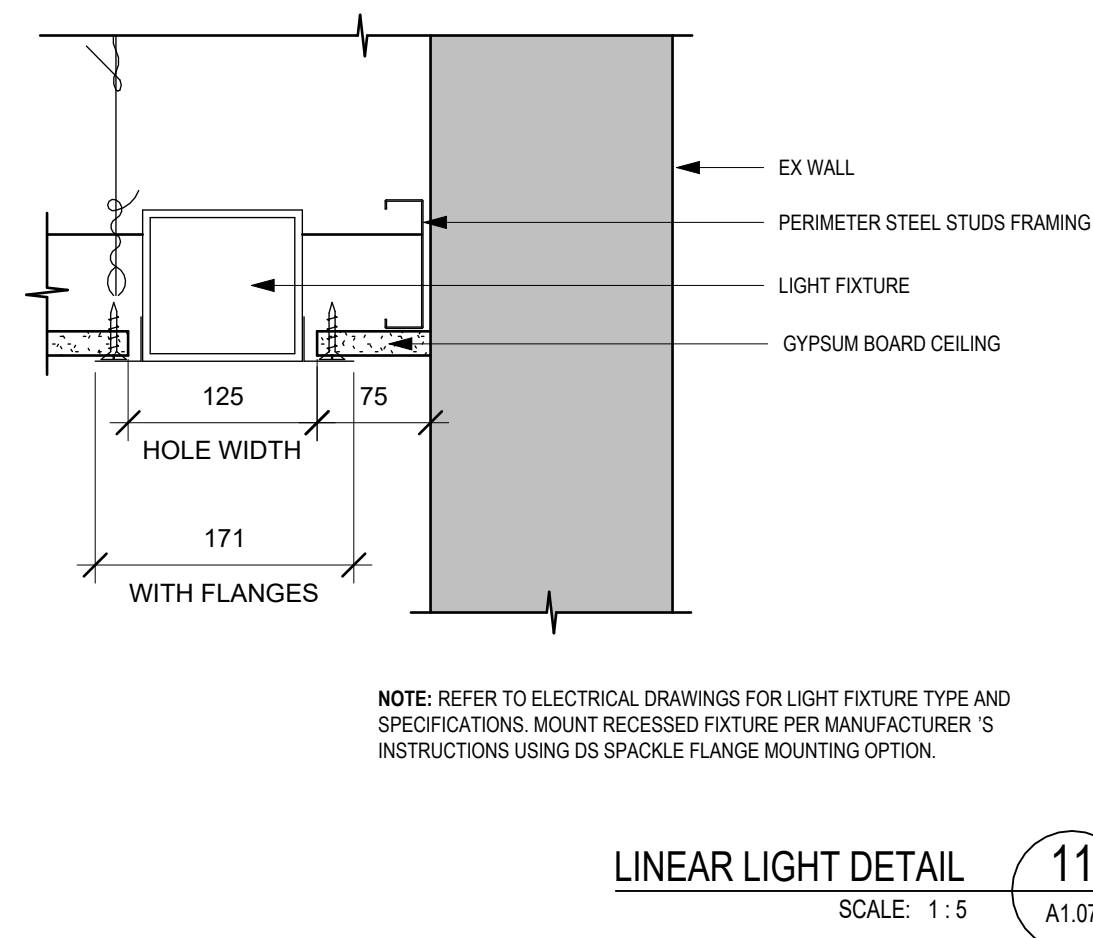
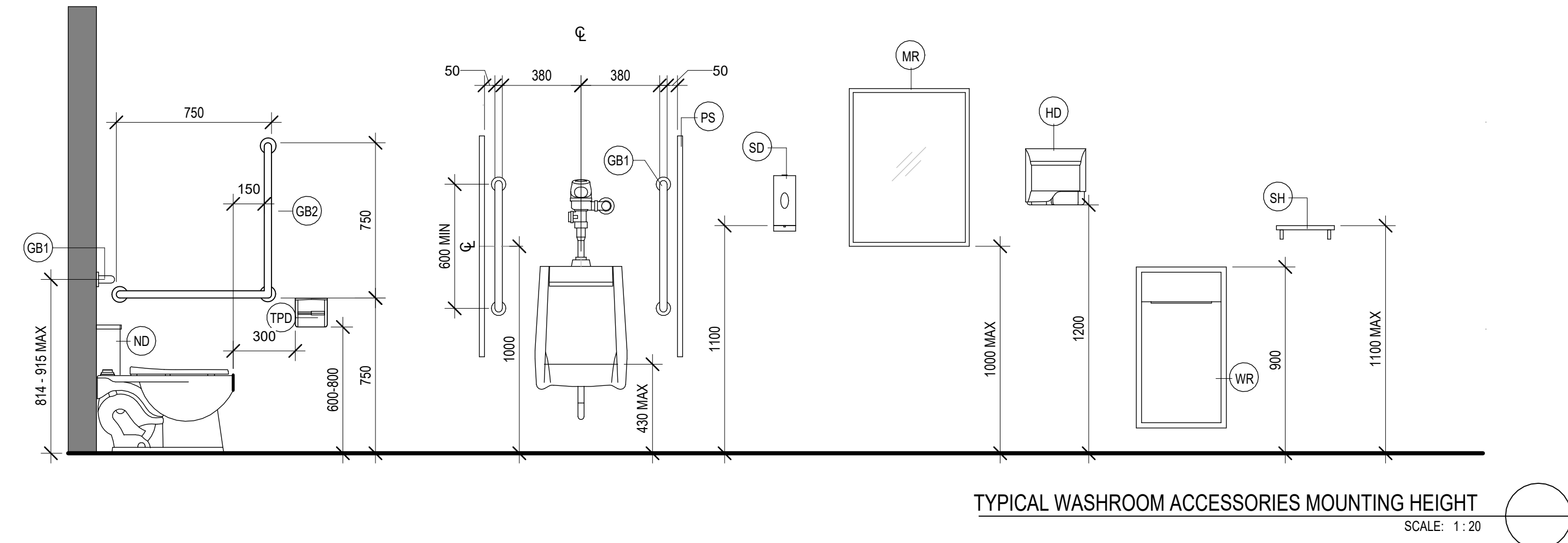
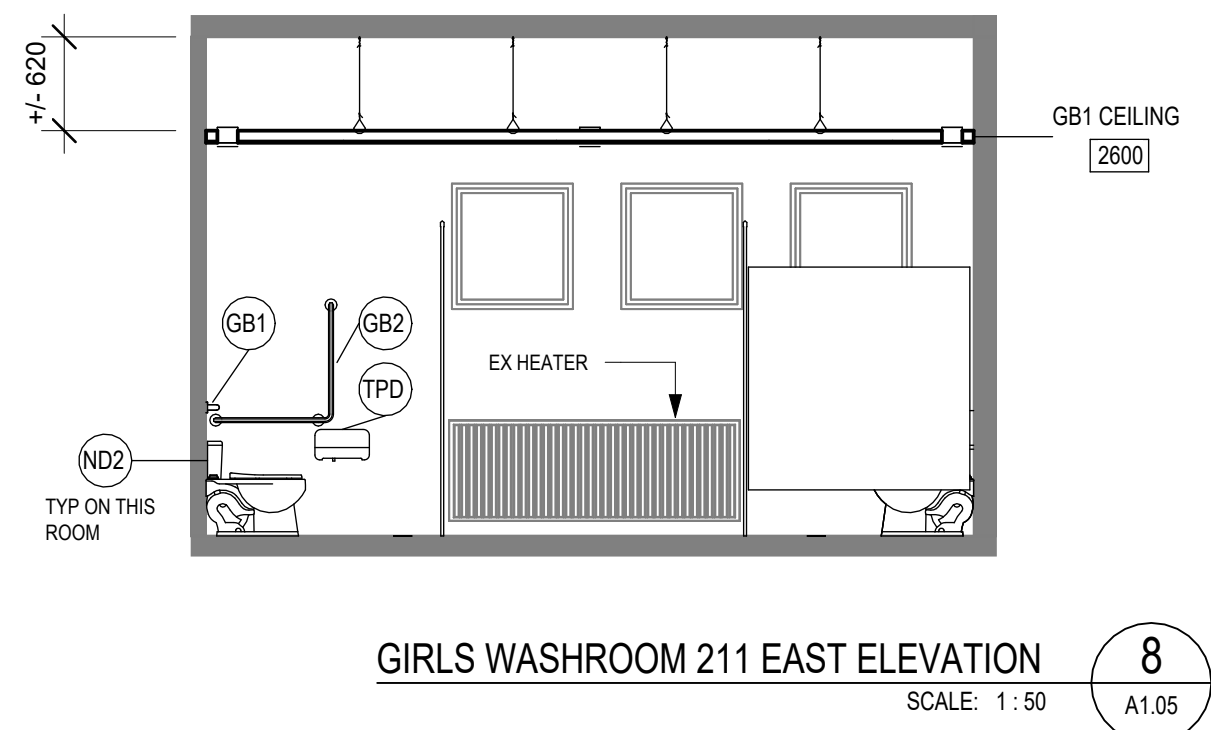
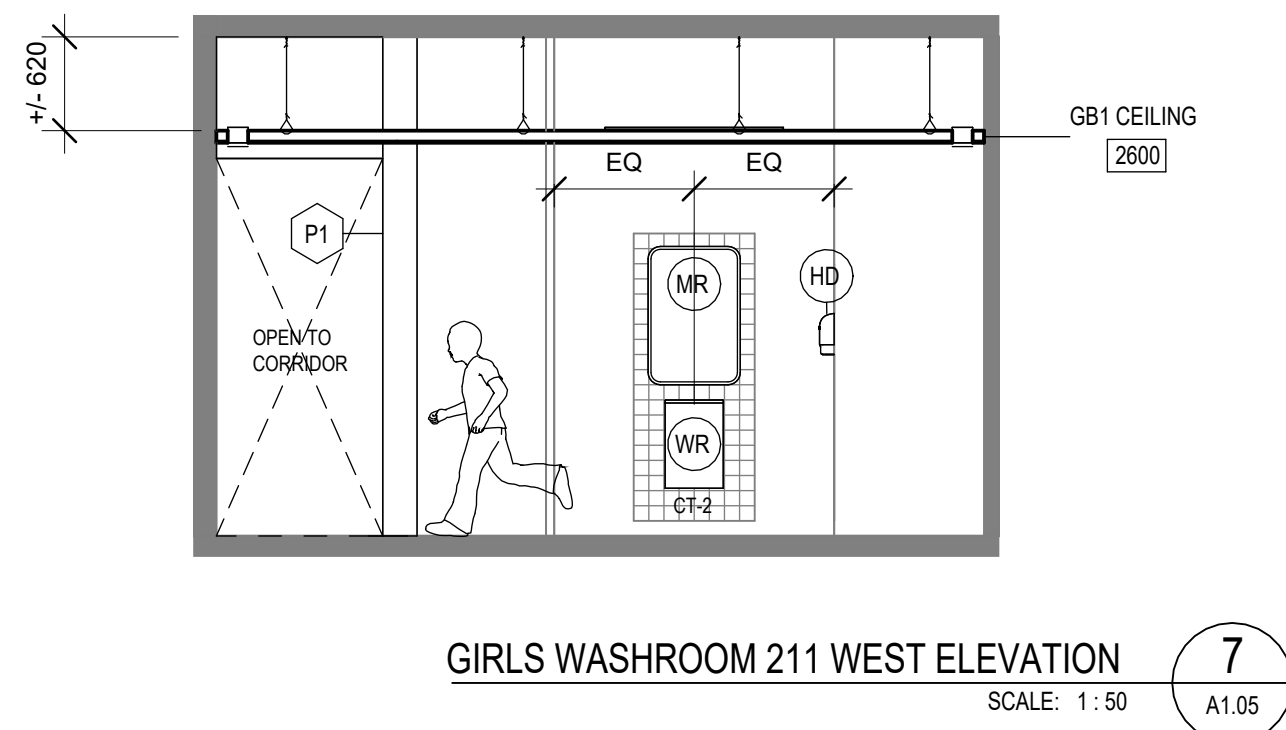
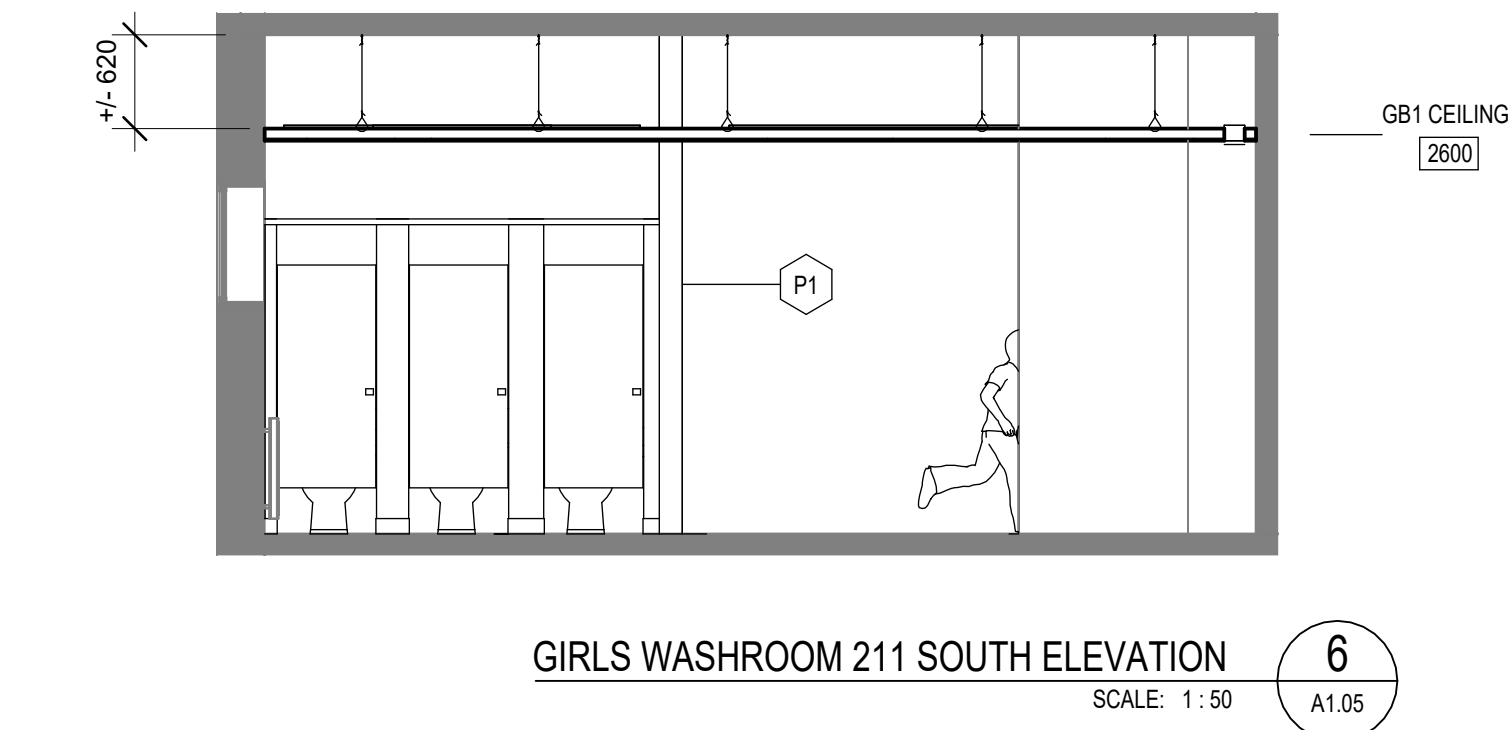
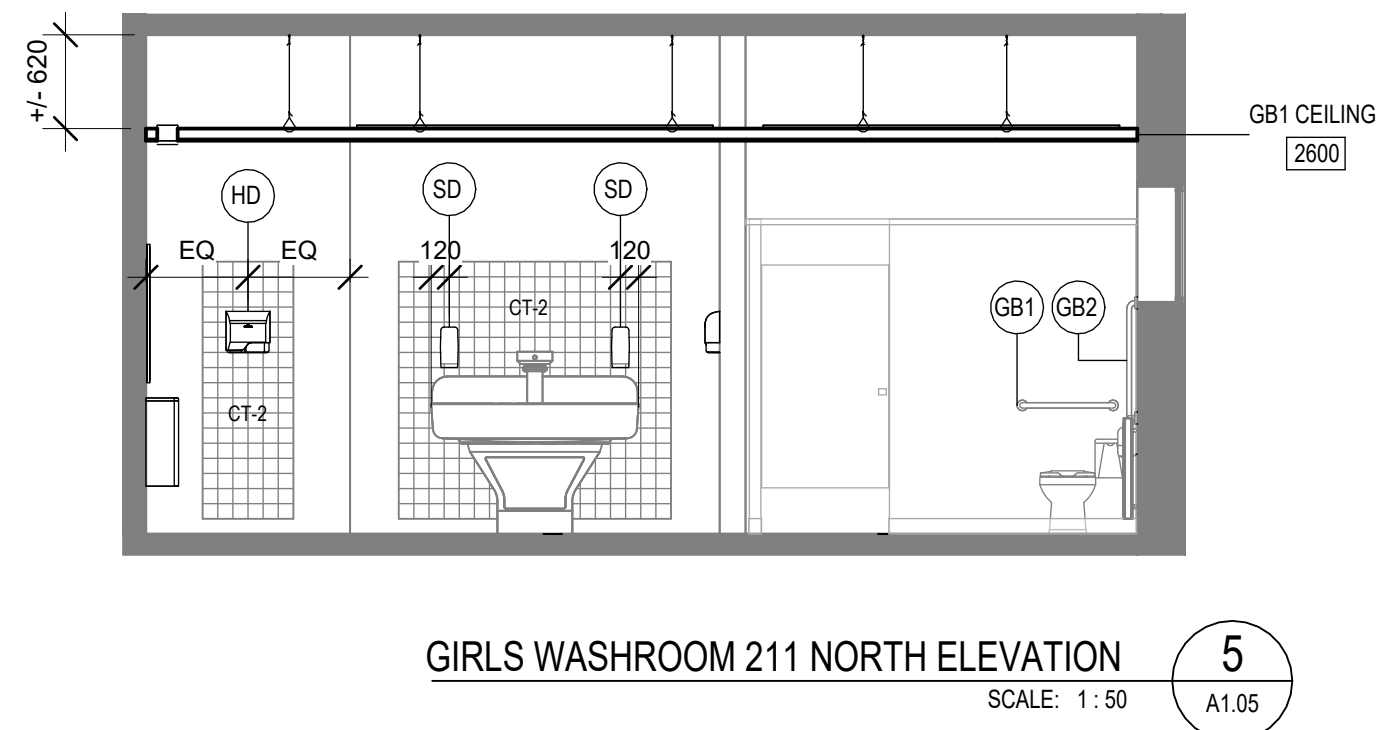
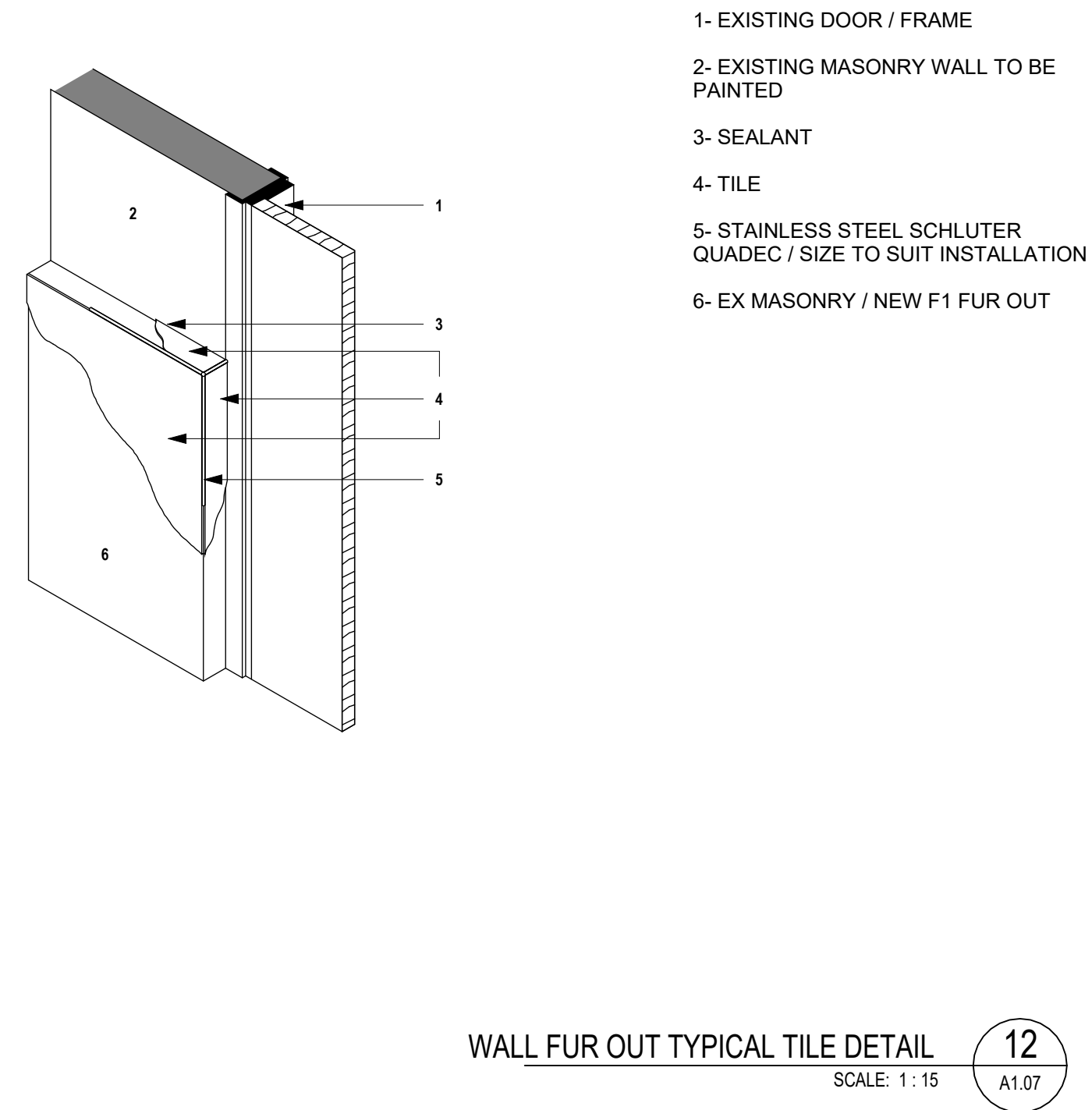
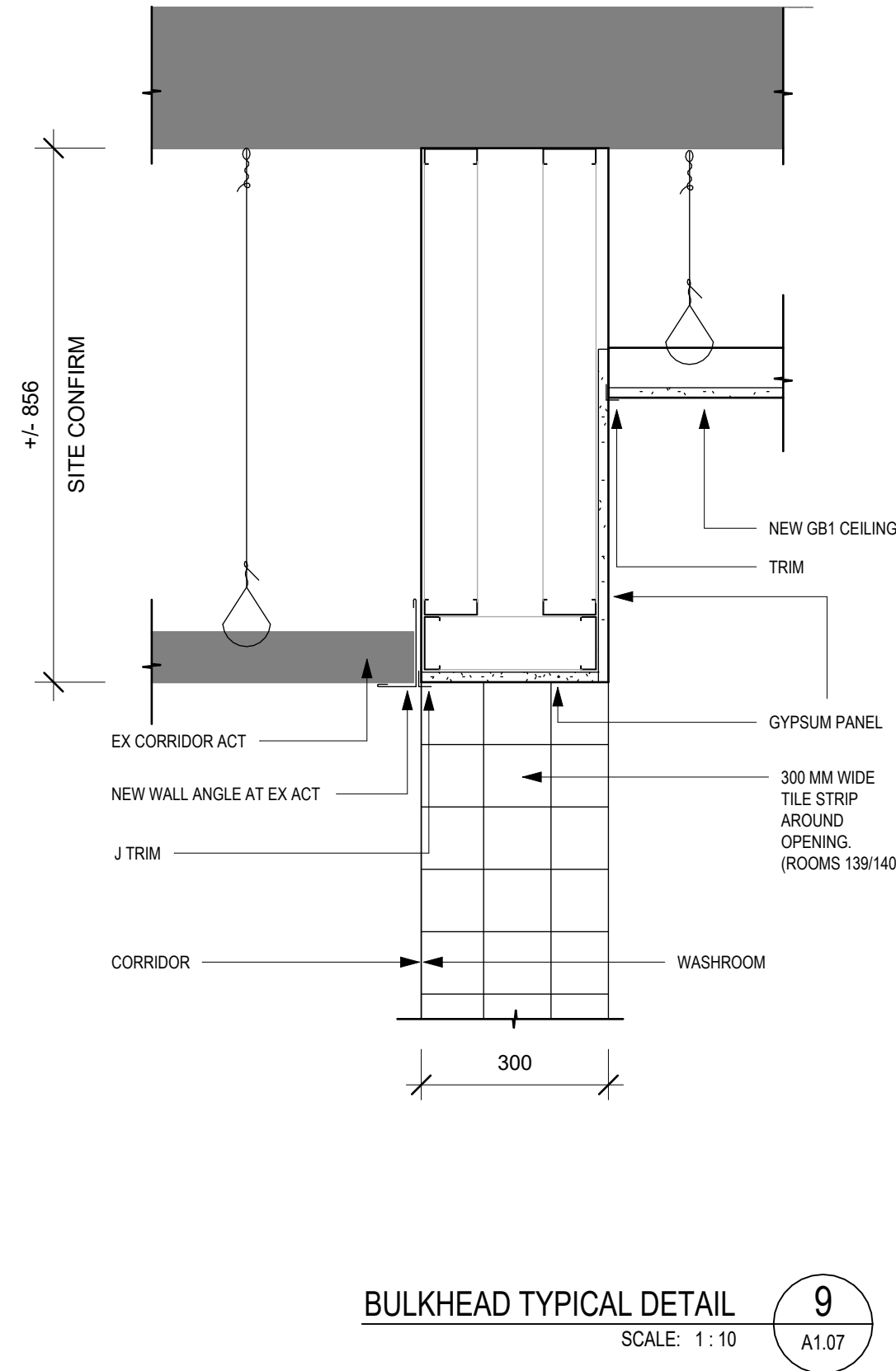
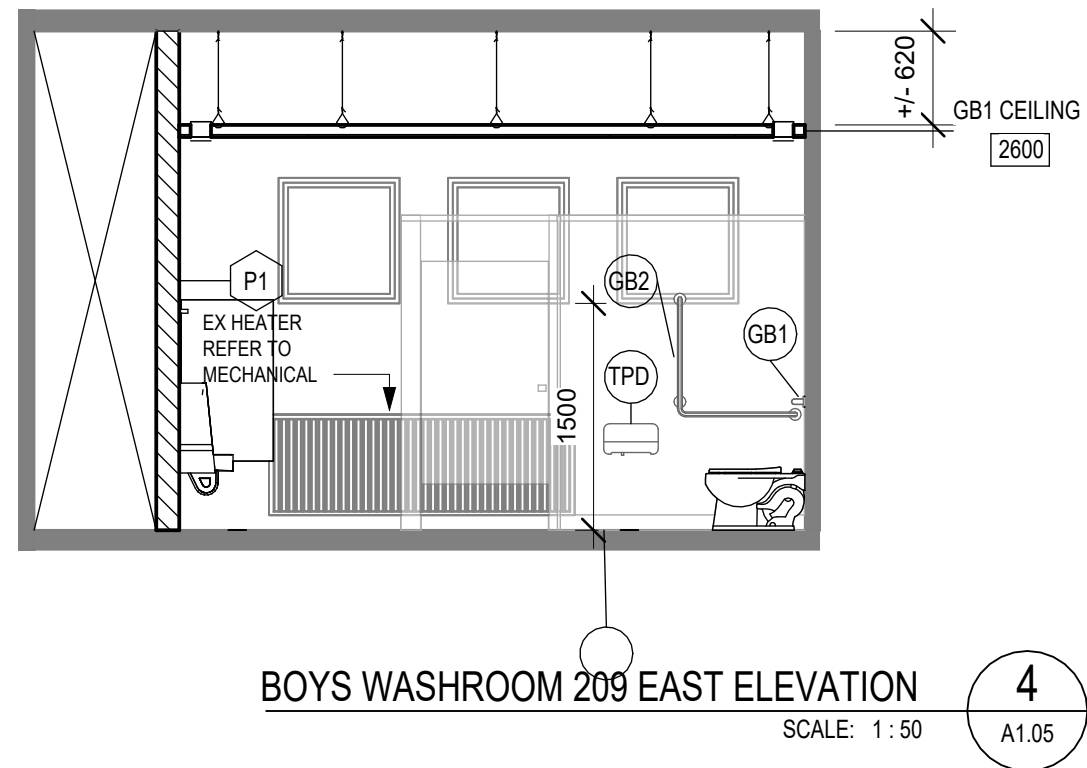
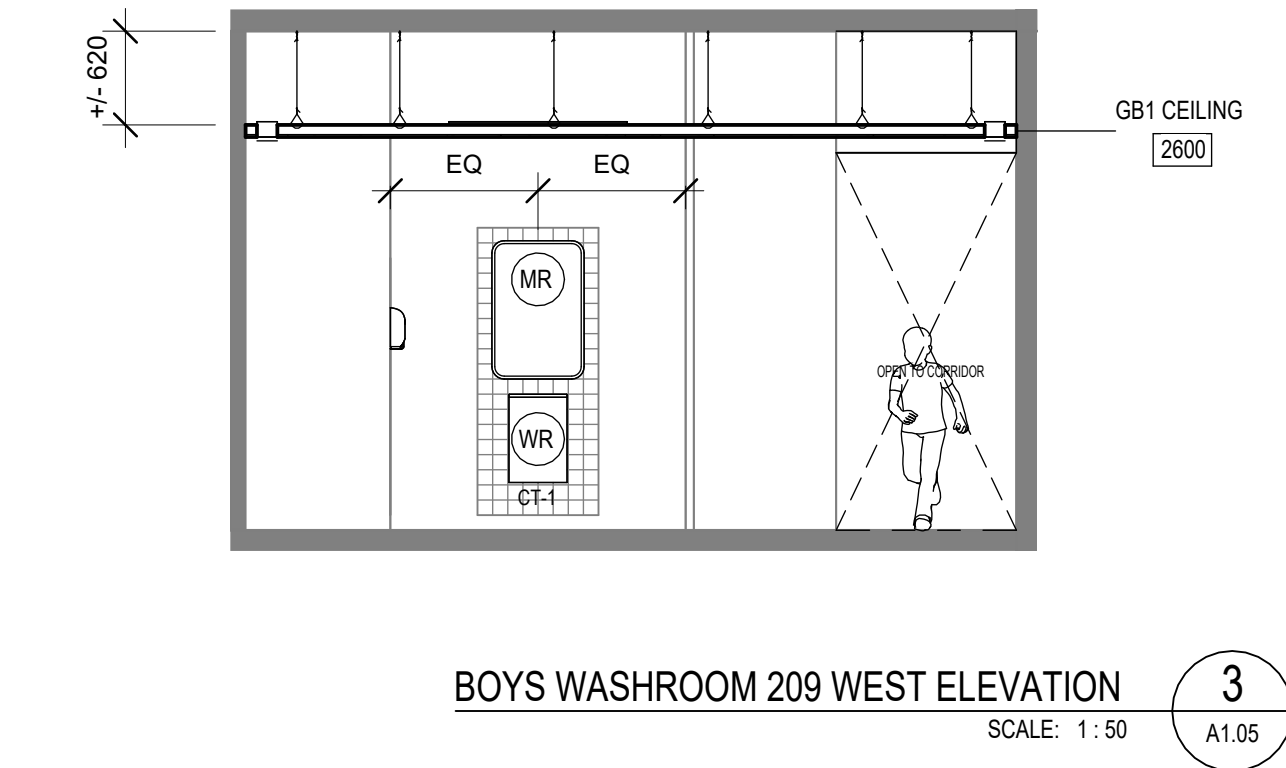
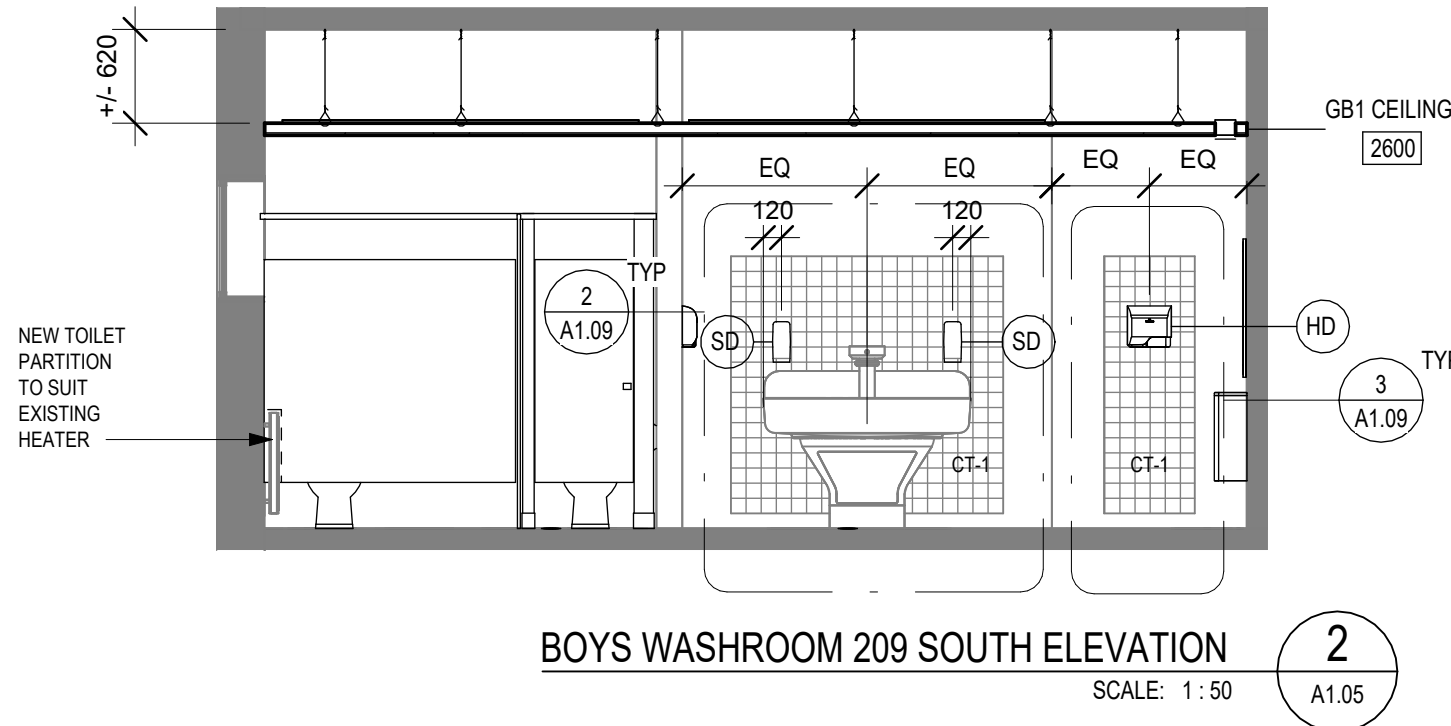
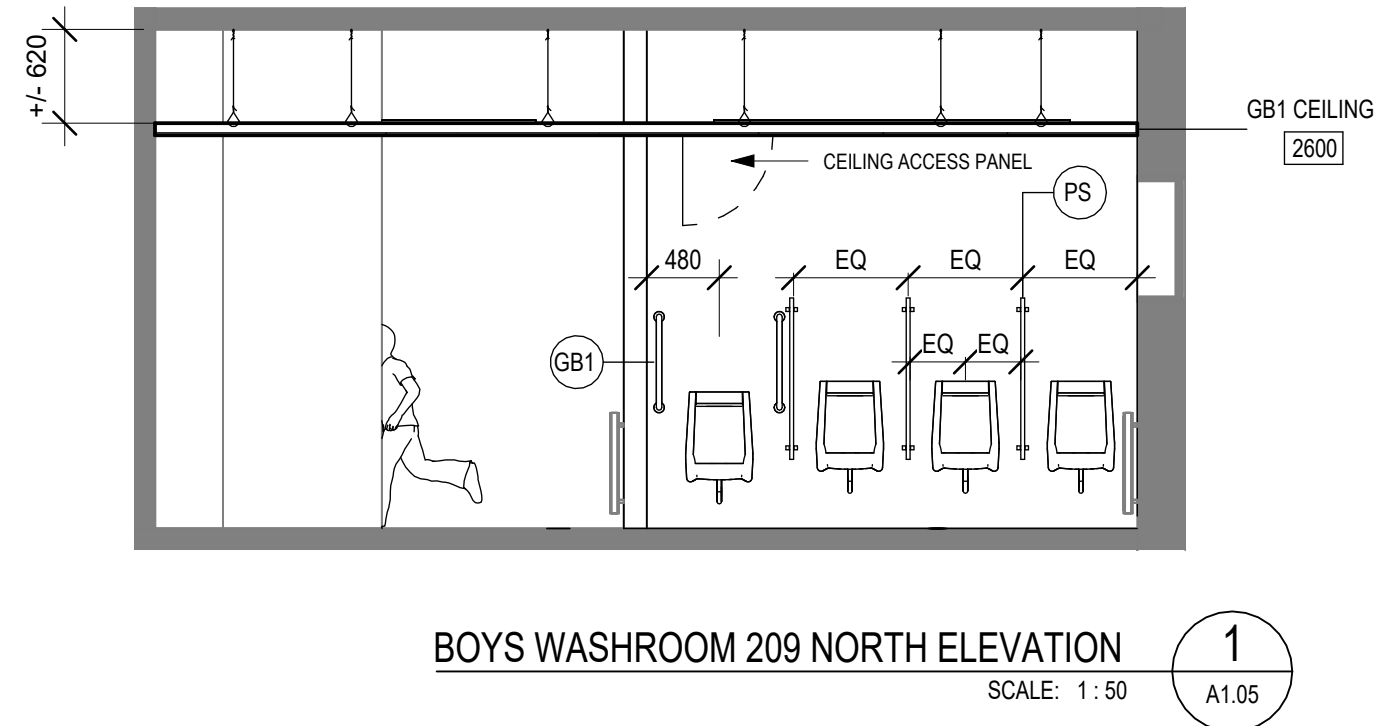
project title:
2026-133-P02206 Chedoke
Elementary School
Washroom Renovations
500 Bendamere Ave., Hamilton, ON

drawing title:
GROUND FLOOR PROPOSED
INTERIOR ELEVATIONS

drawn:
AS
checked:
AJ

scale:
As indicated
project number:
25-25

drawing no:
A1.06
revision:
2



WASHROOM ACCESSORIES ABBREVIATIONS	
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WASHROOM FLOOR PLAN ABBREVIATIONS

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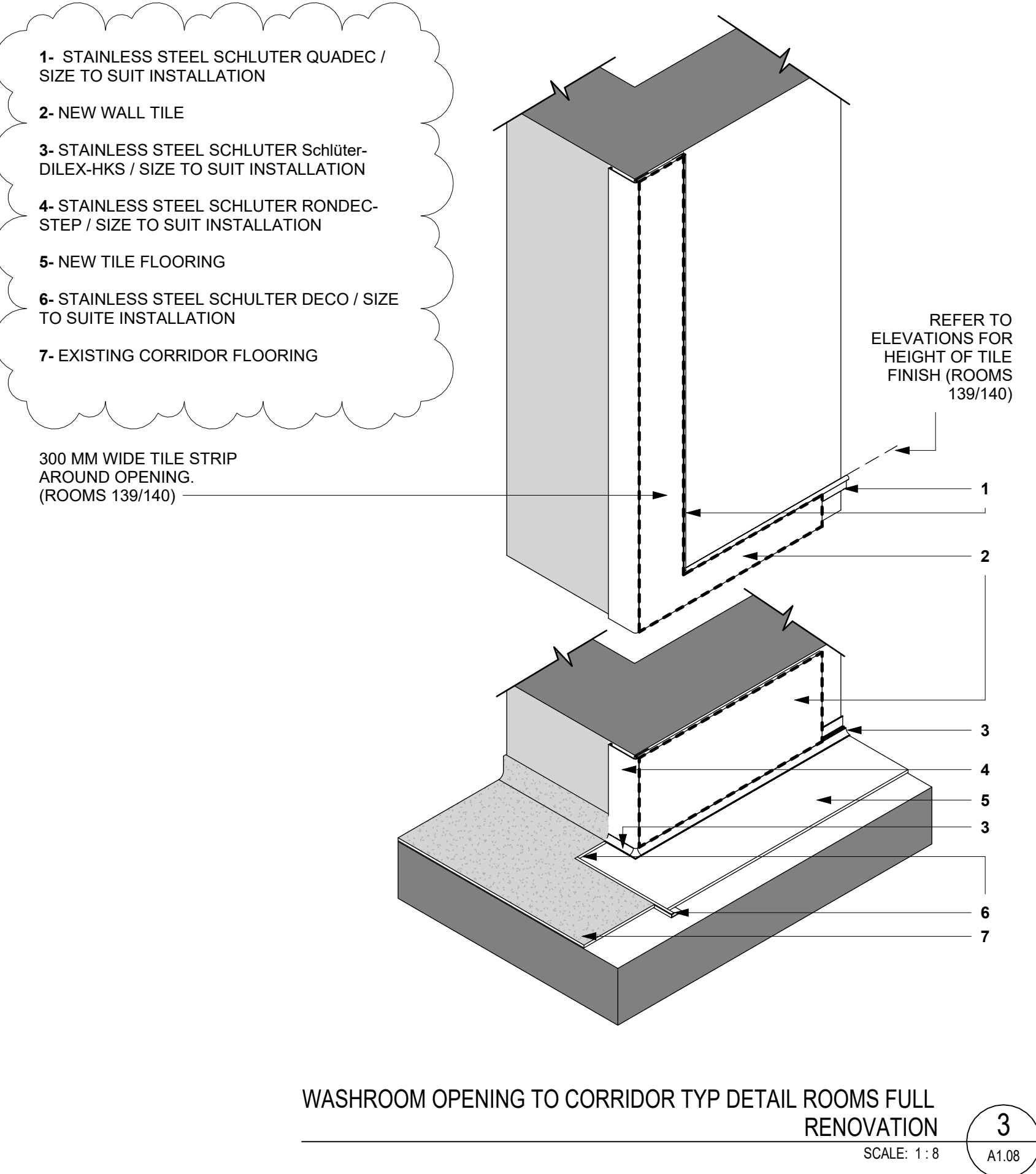
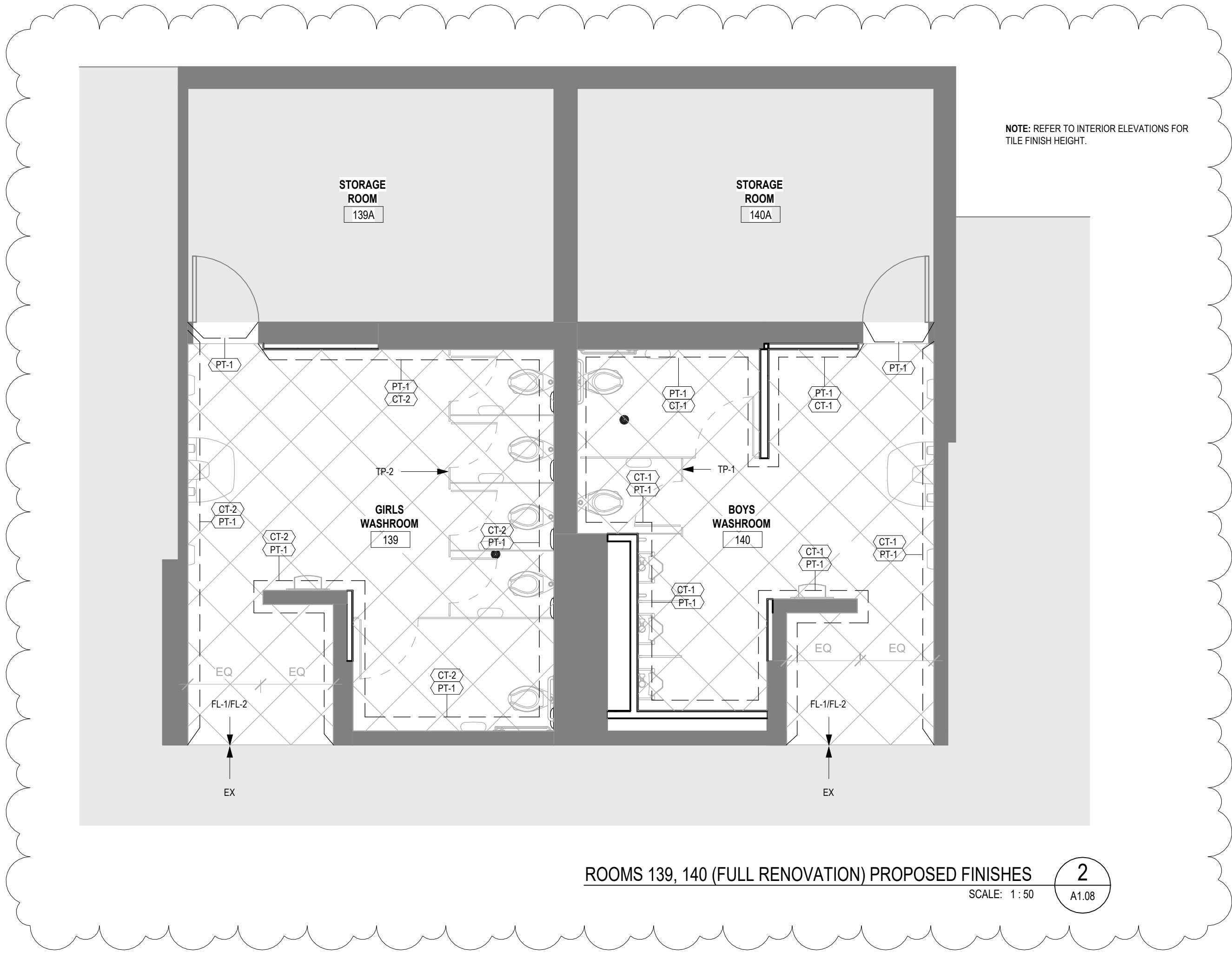
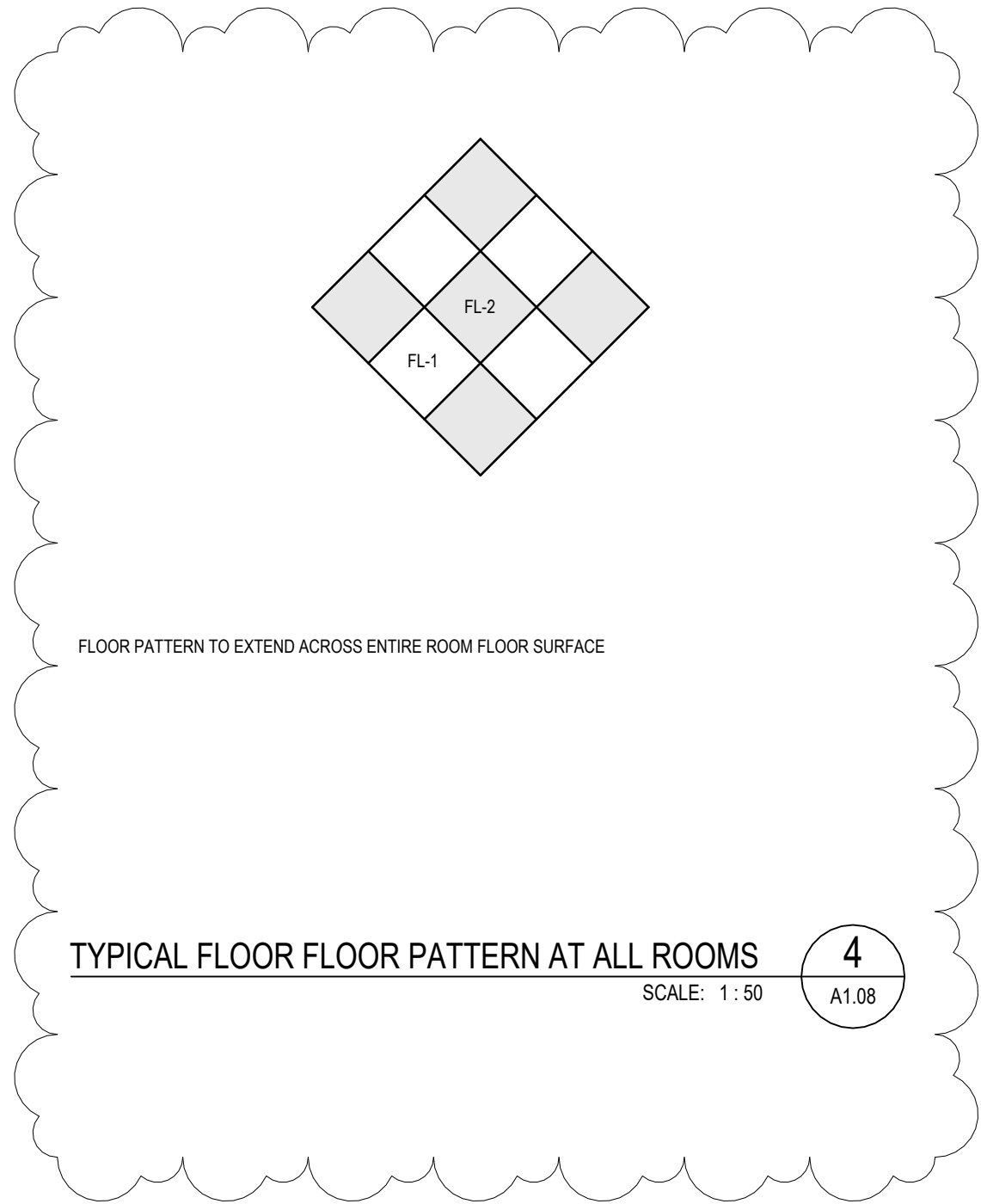
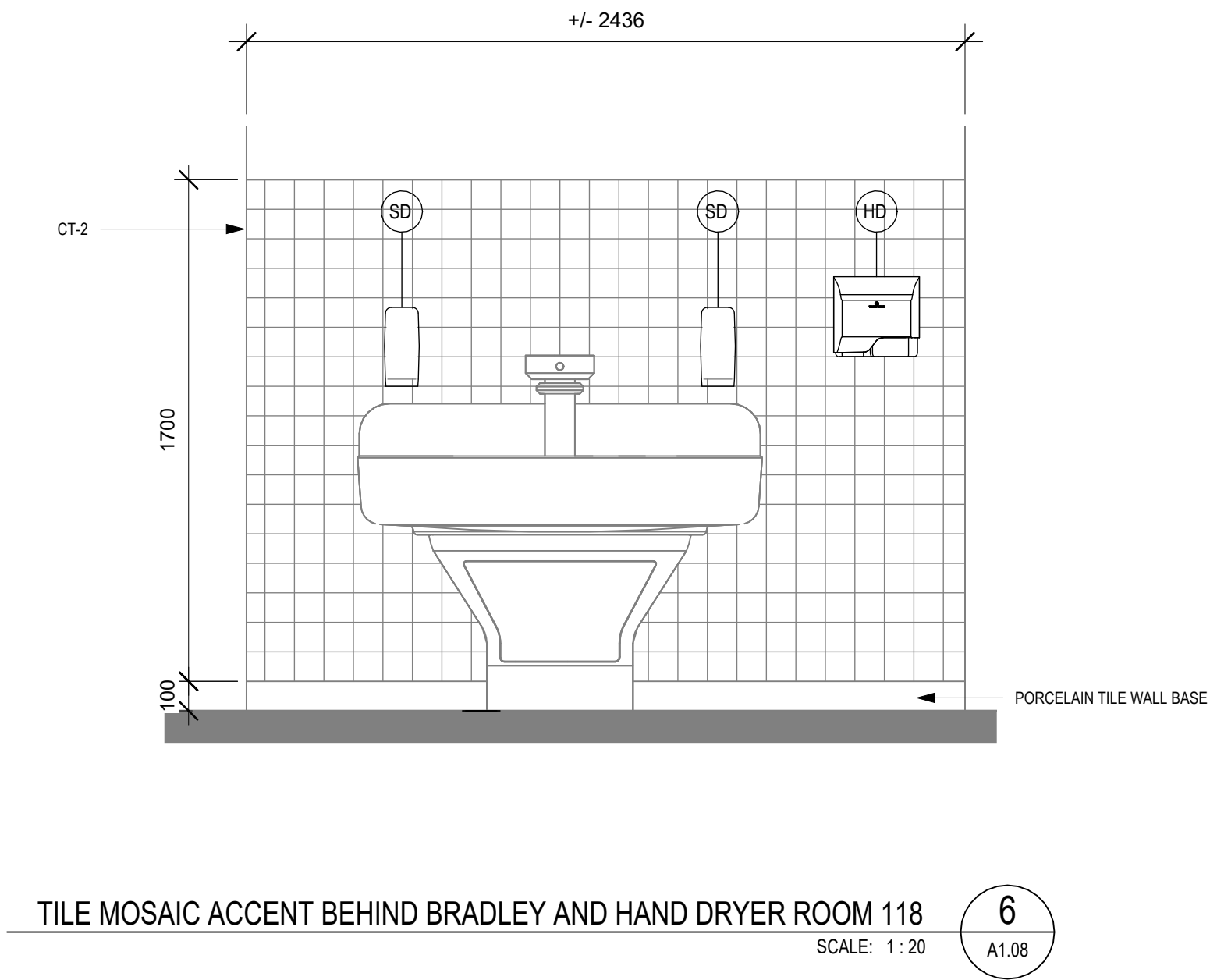
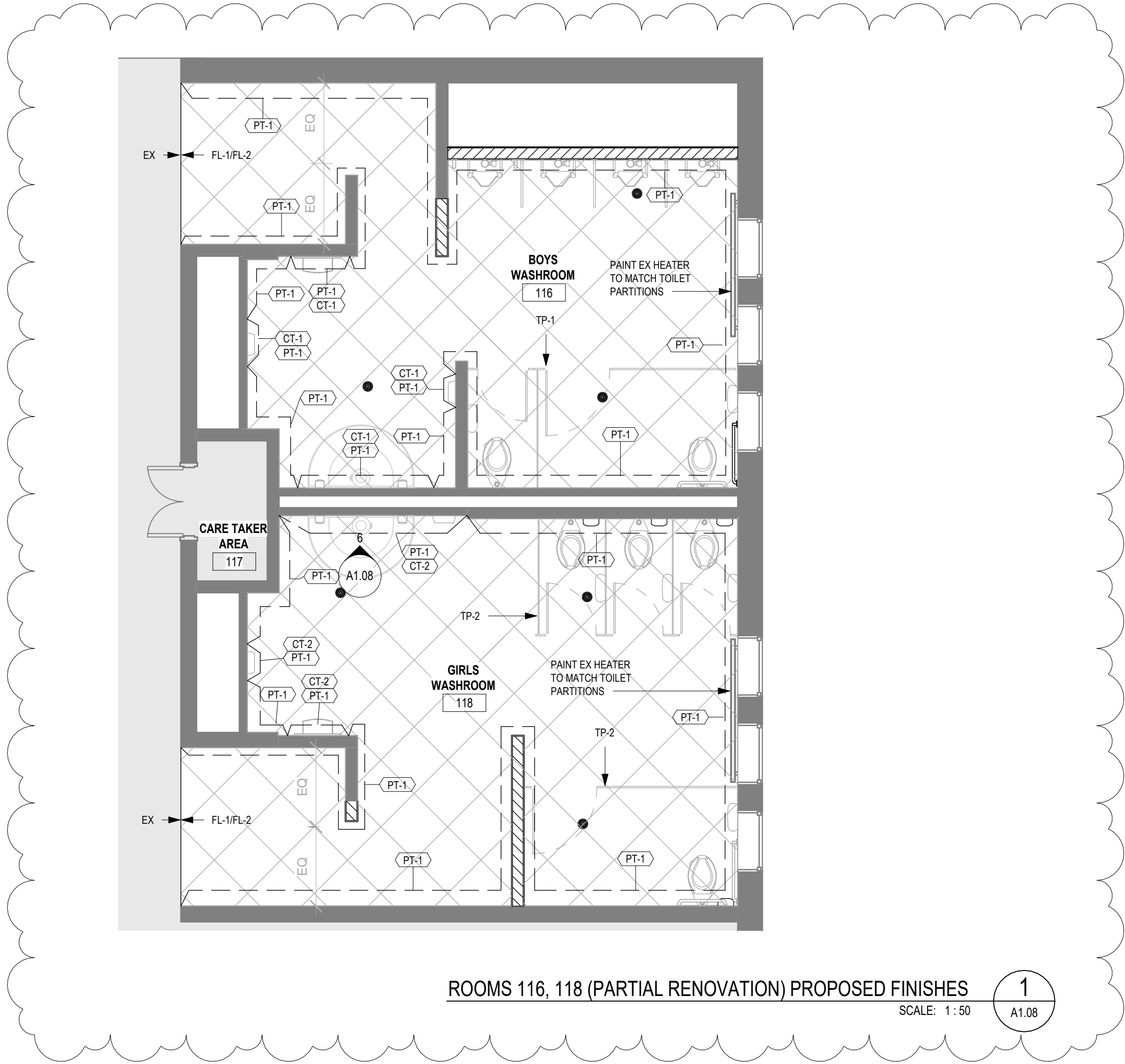
EMAIL: info@ajp.design 905-928-5121
https://ajp.design

Project Title:
2026-133-P02206 Chedoke Elementary School Washroom Renovations
500 Bendamere Ave., Hamilton, ON

Drawing Title:
SECOND FLOOR PROPOSED INTERIOR ELEVATIONS

Drawn: AS	Scale: As indicated
Checked: A.J.	Project Number: 25-25

Drawing No: A1.07	Revision: 2
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FL-1	ACCADemia FULL BODY, VERONESE SOFT 24"x24"
FL-2	ACCADemia FULL BODY, BELLINI SOFT 24"x24"
PT-1	PROMAR 200 HP ZERO VOC BY SHERWIN-WILLIAMS, COLOR: SW 6253 OLYMPUS WHITE
PT-2	PROMAR 200 HP ZERO VOC BY SHERWIN-WILLIAMS, COLOR: SW 9542 NATURAL WHITE
CT-1	CENTURA LA FABBRICA UP GREEN MATE 4"x4", TEC GROUT, COLOR 953 STARRY NIGHT
CT-2	CENTURA LA FABBRICA UP BLUE MATE 4"x4", TEC GROUT, COLOR 953 STARRY NIGHT
TP-1	ASI-GLOBAL PARTITIONS GRAY 2125
TP-2	ASI-GLOBAL PARTITIONS SAGE 2141

FINISHES LEGEND

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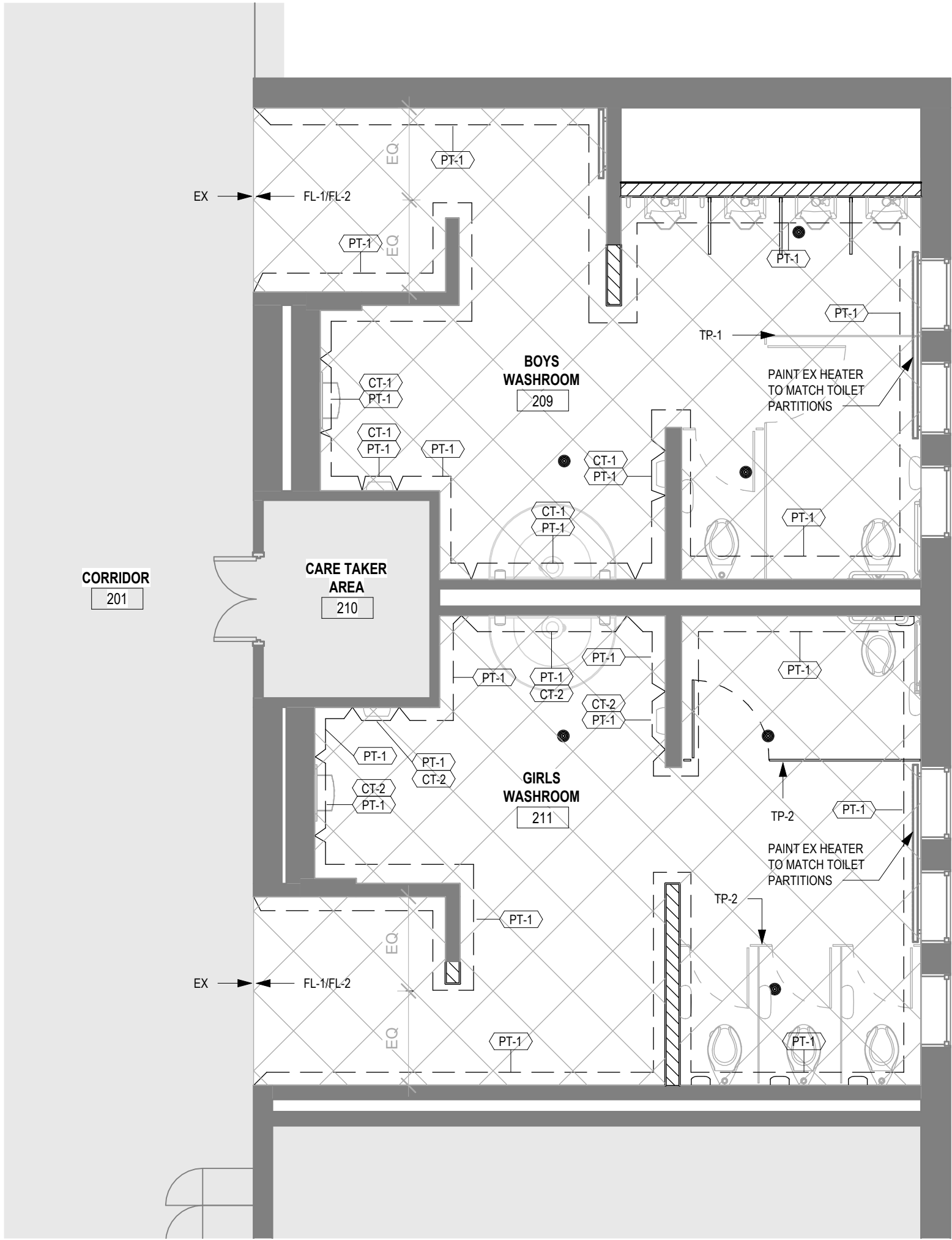
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mailto:info@ajp.design
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project title:
2026-133-P02206 Chedoke Elementary School Washroom Renovations
500 Bendamere Ave., Hamilton, ON

drawing title:
GROUND FLOOR PROPOSED FINISHES

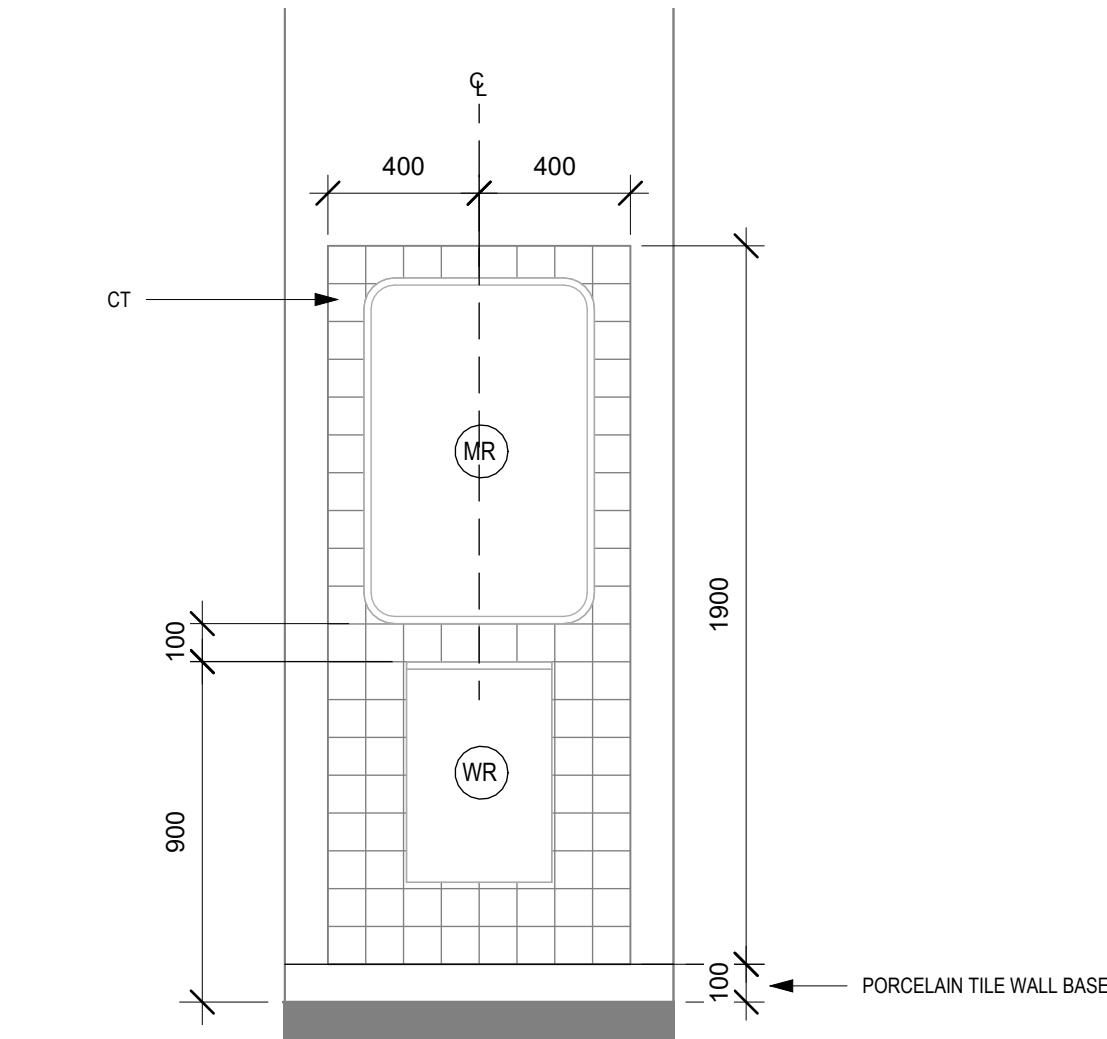
drawn: AS	scale: As indicated
checked: A.J.	project number: 25-25

DRAWING NO: A1.08	Revision: 2
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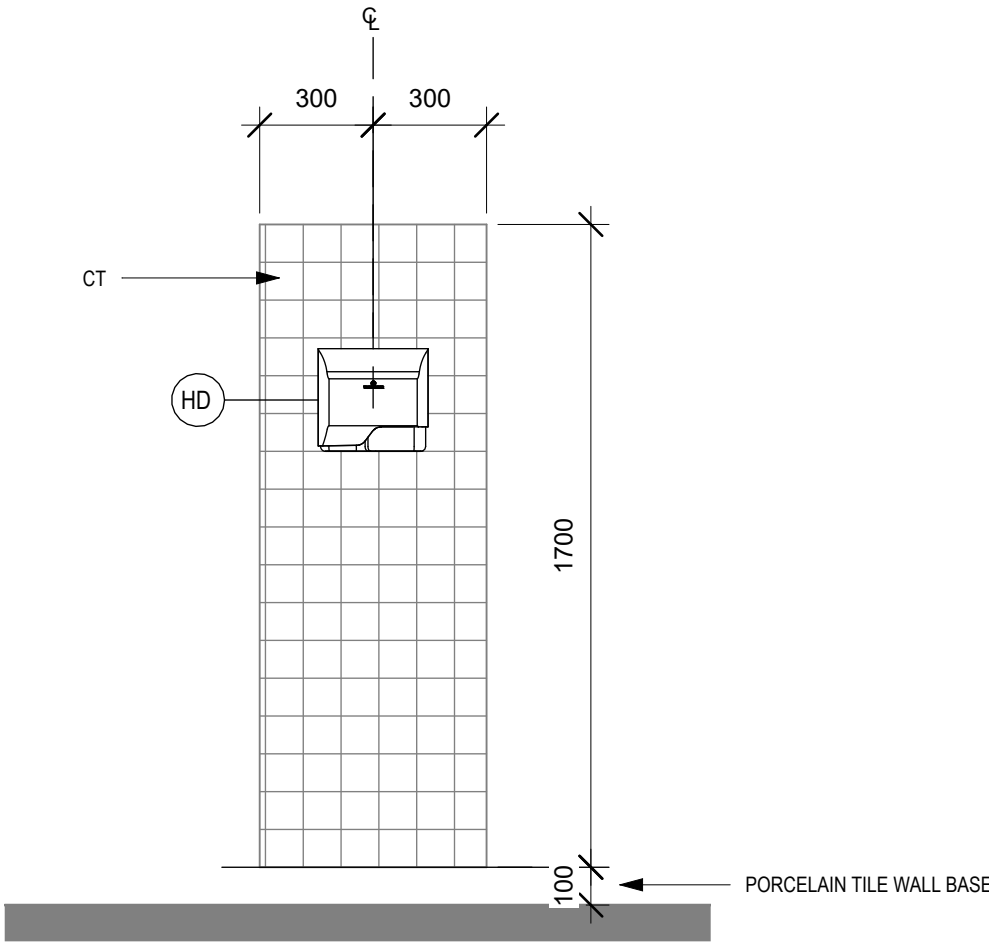
ROOMS 209, 211 (PARTIAL RENOVATION) PROPOSED FINISHES
SCALE: 1 : 50

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A1.09



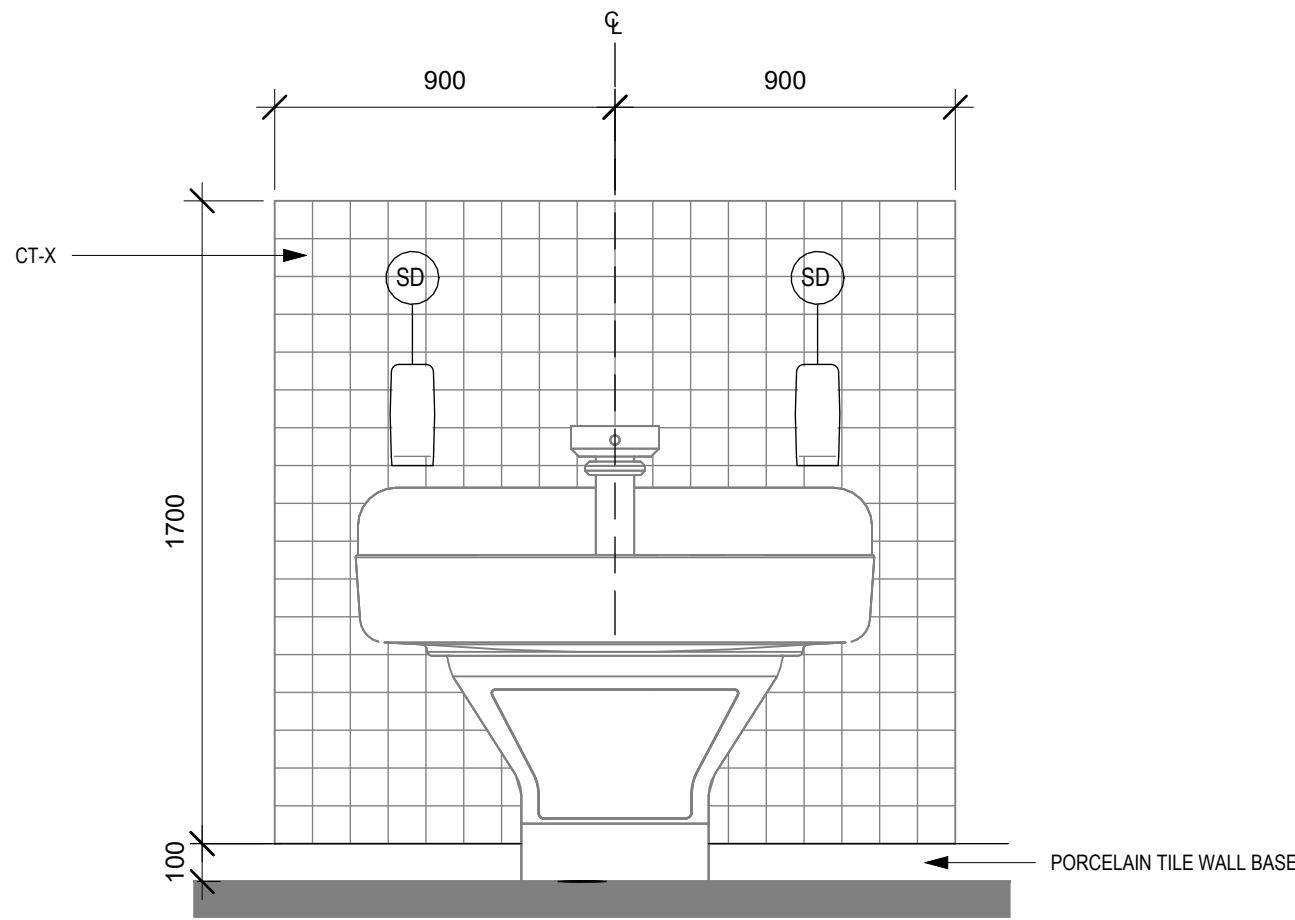
TYP. TILE MOSAIC ACCENT BEHIND MIRROR AND WASTE RECEPTACLE
SCALE: 1 : 20

4
A1.09



TYP. TILE MOSAIC ACCENT BEHIND HAND DRYER
SCALE: 1 : 20

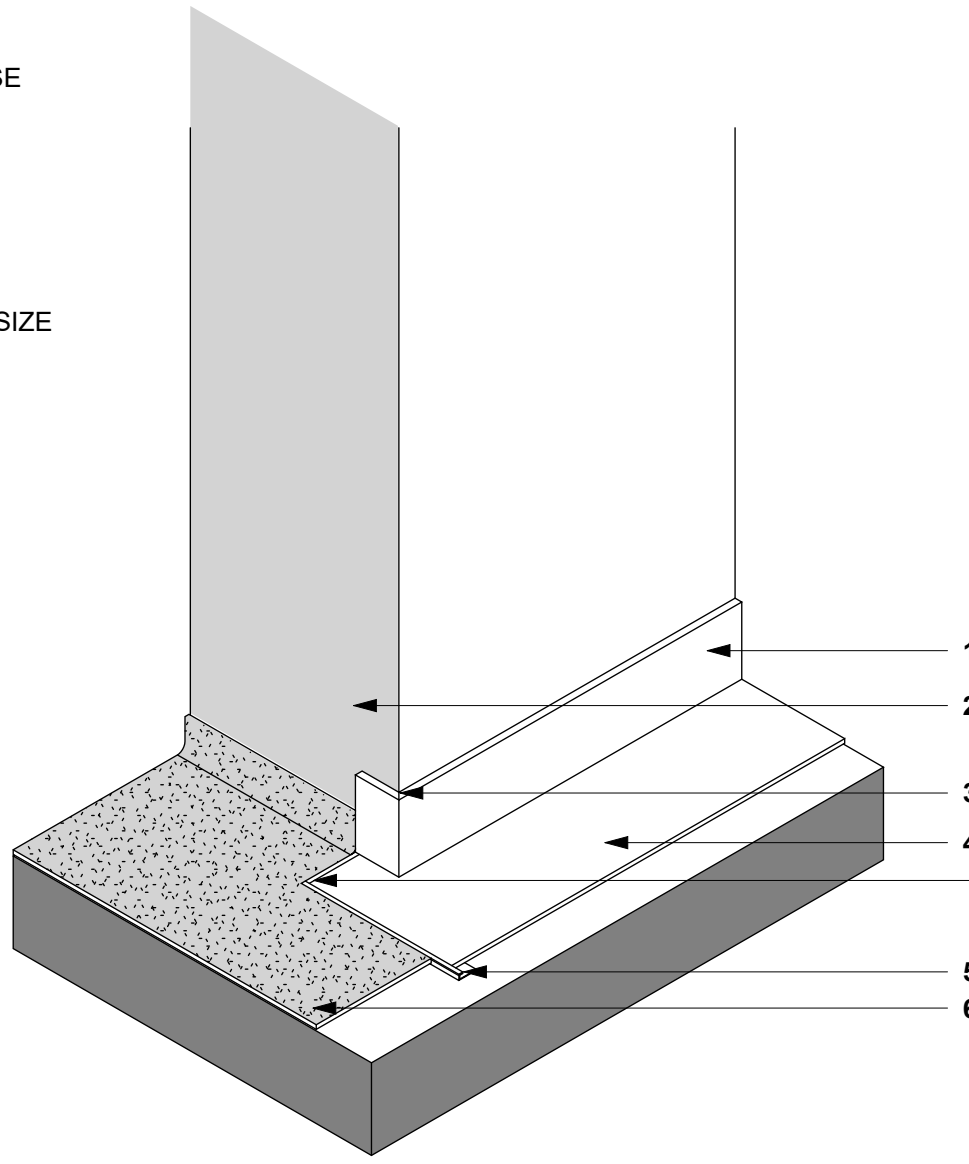
3
A1.09



TYP. TILE MOSAIC ACCENT BEHIND BRADLEY
SCALE: 1 : 20

2
A1.09

- 1- PORCELAIN 100MM HEIGHT WALL BASE
- 2- EXISTING CORRIDOR WALL
- 3- 45 DEGREE CORNER CUT
- 4- NEW TILE FLOORING
- 5- STAINLESS STEEL SCHULTER DECO / SIZE TO SUITE INSTALLATION
- 6- EXISTING CORRIDOR FLOORING



WASHROOM OPENING TO CORRIDOR TYP DETAIL ROOMS PARTIAL RENOVATION
SCALE: 1 : 8

5
A1.09

FL-1	ACCADÉMIA FULL BODY, VERONESE SOFT 24"x24"
FL-2	ACCADÉMIA FULL BODY, BELLINI SOFT 24"x24"
PT-1	PROMAR 200 HP ZERO VOC BY SHERWIN-WILLIAMS, COLOR: SW 6253 OLYMPUS WHITE
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project title:
2026-133-P02206 Chedoke Elementary School Washroom Renovations
500 Bendamere Ave., Hamilton, ON

drawing title:
SECOND FLOOR PROPOSED FINISHES

drawn: AS	scale: As indicated
checked: A.J.	project number: 25-25

DRAWING NO: A1.09	Revision: 2
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GENERAL PROVISIONS FOR MECHANICAL SPECIFICATIONS:

1. GENERAL CONTRACT

- 1.1. THE INSTRUCTIONS TO BIDDERS AND THE GENERAL CONDITIONS OF THE ARCHITECTURAL SPECIFICATIONS ARE AN INTEGRAL PART OF MECHANICAL DIVISION, AND SHALL BE READ IN CONJUNCTION HERewith. THESE INSTRUCTIONS TO BIDDERS AND GENERAL CONDITIONS SHALL BE FULLY BINDING ON THE GENERAL CONTRACTOR AND HIS SUBCONTRACTORS TO THE FULL SATISFACTION OF THE ARCHITECT AND ENGINEER.
- 1.2. THE RESPONSIBILITY AND SCOPE OF EACH SUB-TRADE RESTS SOLELY WITH THE GENERAL CONTRACTOR. EXTRAS WILL NOT BE CONSIDERED BASED ON THE GROUNDS OF DIFFERENCE IN INTERPRETATION OF SPECIFICATIONS AND DRAWINGS AS TO WHICH TRADE INVOLVED SHALL PROVIDE CERTAIN SPECIALTIES OR MATERIALS.
- 1.3. THE INTEND OF THIS SPECIFICATION AND DRAWING IS TO PROVIDE FOR A COMPLETE OPERATING SYSTEM IN COMPLETE ACCORD WITH ALL APPLICABLE CODES. THESE SPECIFICATIONS MAY NOT COVER EACH AND EVERY ITEM REQUIRED FOR THE COMPLETE INSTALLATION. THEREFORE, THE CONTRACTOR SHALL MAKE PROVISIONS FOR ALL LABOUR, MATERIAL, AND EQUIPMENT DEEMED NECESSARY TO COMPLETE THE SYSTEM.

2. EXAMINATION OF PREMISES AND PLANS

- 2.1. THIS DRAWINGS AND SPECIFICATIONS SHALL BE READ IN CONJUNCTION WITH BASE BUILDING DRAWINGS AND SPECIFICATIONS. MAXIMUM CONDITIONS WILL GOVERN.
- 2.2. THE LAYOUT OF THE EXISTING SYSTEMS HAS BEEN TAKEN FROM AVAILABLE INFORMATION AND SHALL BE ACCURATELY CHECKED ON THE SITE.

3. PERMITS AND FEES

- 3.1. GIVE ALL NECESSARY NOTICE, OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES IN ORDER THAT THE WORK SPECIFIED MAY BE UNDERTAKEN, AND FURNISH ANY CERTIFICATES NECESSARY AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH THE LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.

4. CODES AND BYLAWS

- 4.1. COMPLY WITH ALL CODES AND BY-LAWS RELATING TO THE INSTALLATIONS AND EQUIPMENT. CARRY OUT, WITHOUT CHARGE TO THE OWNER, ALL CHANGES AND ALTERATIONS REQUIRED BY AN AUTHORIZED INSPECTOR OF AN AUTHORITY HAVING JURISDICTION. PROVIDE ANY CERTIFICATES, AT THE ENGINEER'S REQUEST AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH THE LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
- 4.2. INSTALLATION OF ALL MECHANICAL AND ELECTRICAL SYSTEMS SHALL COMPLY WITH THE REQUIREMENTS OF ONTARIO BUILDING CODE 2006.

5. INTERRUPTION OF EXISTING SERVICES

- 5.1. THE CONTRACTOR SHALL ARRANGE THE SCHEDULE AND PROCEED WITH THE WORK DESCRIBED WITH THE MINIMUM DISTURBANCE AND INTERRUPTION OF EXISTING FACILITIES AND SERVICES.

- 5.2. THE PREMISES WILL BE KEPT OPERATIONAL DURING ENTIRE LENGTH OF CONSTRUCTION. CONTRACTOR TO MAKE ALL NECESSARY ALLOWANCES.

6. RESPONSIBILITY

- 6.1. ASSUME FULL RESPONSIBILITY FOR LAYOUT OF THE WORK AND FOR ANY DAMAGE CAUSED THE OWNER OR OTHERS BY IMPROPER LOCATION OR CARRYING OUT OF THIS WORK.

7. CLEANING

- 7.1. DURING THE COURSE OF CONSTRUCTION AND UPON COMPLETION, REMOVE FROM THE PROJECT SITE, TO COMPLETE SATISFACTION OF THE OWNER, ALL RUBBISH AND WASTE RESULTING FROM THIS WORK. CLEAN-UP TO EXISTING FLOOR, WALL, CEILING AND ROOF AREAS.

8. GUARANTEE

- 8.1. FURNISH THE OWNER WITH A WRITTEN GUARANTEE FOR THE SATISFACTORY OPERATION OF ALL WORK AND APPARATUS INSTALLED UNDER THIS CONTRACT, AND REPLACE FORTHWITH, AT THE CONTRACTOR'S OWN EXPENSE, ON ANY PART OF THE SYSTEM WHICH MAY FAIL OR PROVE DEFECTIVE WITHIN A PERIOD OF 12 MONTHS AFTER THE SUBSTANTIAL PERFORMANCE ACCEPTANCE, PROVIDED SUCH FAILURE IS NOT DUE TO IMPROPER USAGE OR ORDINARY WEAR AND TEAR.

9. CUTTING AND PATCHING

- 9.1. ALL CUTTING AND PATCHING REQUIRED TO PERFORM WORK, TO BE THE RESPONSIBILITY OF THE INDIVIDUAL DIVISION.

10. SHOP DRAWINGS

- 10.1. SUBMIT DETAILED SHOP DRAWINGS FOR REVIEW BY ENGINEER. THESE WILL BE REVIEWED FOR SPECIFICATION COMPLIANCE AND SHALL BE REVISED AS OFTEN AS MAY BE FOUND NECESSARY TO THE SATISFACTION OF THE ENGINEER. NUMBER OF REQUIRED COPIES SHALL BE DETERMINED AND COORDINATED WITH ARCHITECT, GENERAL CONTRACTOR AND OWNER AT START UP OF THE PROJECT.
- 10.2. ALL SHOP DRAWINGS SHALL BE REVIEWED, SIGNED AND STAMPED BY CONTRACTOR INDICATING THAT PROPOSED MATERIAL, EQUIPMENT AND SYSTEM, COMPLIES WITH DRAWINGS, SPECIFICATIONS AND PROJECT REQUIREMENT. REVIEW OF SHOP DRAWINGS BY CONSULTANT IS FOR CONFORMANCE WITH GENERAL DESIGN CONCEPT AND DOES NOT APPROVE THE DETAILS OF CONSTRUCTION AND INSTALLATION OF THE MATERIAL, EQUIPMENT AND SYSTEMS, RESPONSIBILITY OF WHICH REMAINS WITH CONTRACTOR AND SUPPLIER.

11. RECORD DRAWINGS

- 11.1. DURING CONSTRUCTION CLEARLY MARK ON A SET OF WHITE PRINTS OF CONTRACT DRAWINGS ALL CHANGES WHICH ARE REQUIRED BY ADDENDUMS, SITE INSTRUCTIONS, CHANGE NOTICES AND SITE CONDITIONS AND MAKE IT AVAILABLE TO CONSULTANT FOR REVIEW.
- 11.2. AFTER COMPLETION OF THE WORK SUBMIT ONE SET OF ELECTRONIC COPY OF MARKED UP 'AS BUILT' DRAWINGS TO CONSULTANT FOR REVIEW. REVIEW OF RECORD DRAWINGS BY CONSULTANT SHALL BE FOR GENERAL CONFORMANCE AND IT IS NOT APPROVAL OF THE ACCURACY OF THE DRAWINGS. THIS DIVISION IS RESPONSIBLE FOR ACCURACY OF 'AS BUILT' DRAWINGS.

- 11.3. INCORPORATE ALL THE COMMENTS FROM CONSULTANT AND SUBMIT CAD FILE AND TWO SETS OF HARD COPIES OF AS BUILT DRAWINGS TO THE OWNER. AN E-MAIL COPY OF TENDER DRAWINGS CAN BE OBTAINED FROM CONSULTANT AT NO CHARGE.

- 11.4. INSTRUCT THE OWNER'S REPRESENTATIVE IN THE OPERATION AND MAINTENANCE OF ALL EQUIPMENT.

12. REMOVAL OF EXISTING MATERIALS

- 12.1. PRESENT EXISTING MATERIAL AND EQUIPMENT REMOVED FROM WORK BUT NOT IDENTIFIED FOR RE-USE ON SITE TO OWNER. ACCEPTANCE OF REMOVED MATERIAL AND EQUIPMENT IS AT THE DISCRETION OF OWNER, WHERE DEEMED UNSUITABLE, CONTRACTOR TO REMOVE SUCH ITEMS FROM SITE.

13. OPERATION & MAINTENANCE (O&M) MANUAL

- SUBMIT DIGITAL COPIES OF O&M MANUALS TO CONSULTANT FOR REVIEW. MANUALS SHALL INCLUDE SHOP DRAWINGS OF ALL NEW EQUIPMENT, TEST AND BALANCING REPORTS, COMMISSIONING REPORTS, WARRANTIES, AND OPERATION AND MAINTENANCE PROCEDURES.

14. TESTING, BALANCING & ADJUSTING

- PERFORM TESTING, BALANCING AND ADJUSTING TO PERTINENT SYSTEMS INCLUDING:

- HVAC SYSTEM
- SUBMIT BALANCING REPORT TO CONSULTANT FOR APPROVAL TO ENSURE THAT ALL COMPONENTS ARE OPERATING WITHIN THEIR DESIGN PARAMETERS
- TEST AND COMMISSION ALL NEW EQUIPMENT AND SYSTEMS.
- PROVIDE GAS CERTIFICATE OF TESTING ENTITY.
- COMPLETE AND PROVIDE AS-BUILT DRAWINGS AND OPERATION AND MAINTENANCE MANUALS AS INDICATED.

MECHANICAL SPECIFICATION

PLUMBING

1. MATERIALS AND INSTALLATION MUST COMPLY WITH THE STANDARDS OF THE ONTARIO BUILDING CODE AND PLUMBING CODE
2. COORDINATE LOCATIONS AND ROUTING WITH OTHER TRADES FOR EQUIPMENT, CONTROL DEVICES, SERVICES AND DISTRIBUTION SYSTEMS.
3. PROVIDE WIRING DRAWINGS TO THE ELECTRICAL CONTRACTOR FOR MECHANICAL CONNECTIONS.
4. CONFIRM EXACT DIMENSIONS AND LOCATIONS OF OPENINGS, SLEEVES AND INSERTS ON SITE. ANY REQUIRED CUTTING, CHASES OR HOLES IN FLOORS, WALLS OR ROOFS SHALL BE EXECUTED BY THE CONTRACTOR AND MADE GOOD AS REQUIRED.
5. USE DIELECTRIC COUPLINGS FOR CONNECTIONS BETWEEN DISSIMILAR METALS.
6. DOMESTIC WATER PIPING: TYPE L HARD-DRAWN SEAMLESS COPPER TUBE TO ASTM B88M WITH COPPER SOLDER-TYPE FITTINGS TO ASME B16.18 AND LEAD-FREE SOLDERED JOINTS.
7. SANITARY DRAINAGE AND VENT PIPING: ABOVE FLOOR: CAST IRON DWV PIPING TO CAN/CSA B70. BELOW FLOOR: ABS-DWV PIPING TO CAN/CSA B181.1 FOR SIZES 80 mm (3") AND SMALLER AND PVC SDR-35 TO CAN/CSA B181.2 FOR SIZES 100 mm (4") AND LARGER. CONNECT TO EXISTING PIPING USING QUALIFIED NO-HUB MECHANICAL COUPLINGS.
8. REMOVE ALL EXISTING DRAIN, VENT, HOT AND COLD WATER PIPES NOT USED IN THIS CONTRACT AT FLOOR, WALL OR CEILING.
9. PROVIDE AND INSTALL VENTING SYSTEM FOR ALL PLUMBING FIXTURE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE. ALL FLOOR DRAIN TRAPS SHALL BE VENTED AND PRIMED.
10. SUPPORT HORIZONTAL PIPING EVERY 2500 MM (8') FOR 3/4" PIPE AND SMALLER, AND EVERY 3000 MM (10') FOR LARGER SIZES. PROVIDE PIPE HANGERS AND SUPPORTS AS FOLLOWS: HANGERS SHALL BE ADJUSTABLE SWIVEL RING TYPE (GRINNELL FIGURE #101) FOR UP TO 50 MM AND ADJUSTABLE WROUGHT CLEVIS TYPE (GRINNELL FIGURE #250) FOR 2-1/2" AND OVER. ALL HANGERS AND RODS SHALL BE ADEQUATE IN SIZE AND STRENGTH TO SAFELY SUPPORT THE PIPING SYSTEM.
11. ARRANGE PIPING TO AVOID AIR BINDING AND WATER HAMMER. SLOPE DRAINAGE PIPING TO ELIMINATE AIR POCKETS.
12. PROVIDE CLEANOUTS AS REQUIRED. CLEANOUTS SHALL BE OF THE SAME SIZE AS THE PIPE UP TO 4" BRANCH CLEANOUTS SHALL HAVE CLEANOUTS AT THE END OF BRANCHES AND AT THE BASE OF SOIL/WASTE STACKS. CLEANOUTS SHALL BE BRASS SCREW PLUG TYPE WITH CAST IRON BODIES WHERE INDICATED.
13. SHUT-OFF VALVES 50 MM (2") AND SMALLER SHALL BE 150 LB SOLDER JOINT BRONZE BALL VALVES WITH LEVER HANDLES AND STEM EXTENSIONS WHERE REQUIRED.
14. SUPPLY AND INSTALL THE PLUMBING FIXTURES SHOWN AND LISTED IN THE FIXTURE SCHEDULE; SUBMIT SHOP DRAWINGS FOR FIXTURES PRIOR TO INSTALLATION.

PIPING INSULATION (PLUMBING)

1. DOMESTIC COLD WATER PIPING TO BE INSULATED WITH PREFORMED GLASS FIBER INSULATION TO CSGB 51-GP-9C, FACTORY APPLIED RFFRK VAPOUR BARRIER JACKET WITH WHITE KRAFT SIDE FACING OUT 1/2" THICK, K FACTOR 0.25 @ 750F OR BETTER. SEAL BUTT JOINTS AND END JOINTS WITH PRESSURE SENSITIVE VAPOUR BARRIER ADHESIVE.
2. DOMESTIC COLD WATER PIPING IN UNCONDITIONED SPACE OR OUTSIDE TO BE INSULATED WITH PREFORMED GLASS FIBER INSULATION TO CSGB 51-GP-9C, FACTORY APPLIED RFFRK VAPOUR BARRIER JACKET WITH WHITE KRAFT SIDE FACING OUT 1-1/2" THICK, K FACTOR 0.25 @ 750F OR BETTER. SEAL BUTT JOINTS AND END JOINTS WITH PRESSURE SENSITIVE VAPOUR BARRIER ADHESIVE AND PVC JACKET.

PLUMBING FIXTURE INSTALLATION

1. FIXTURE INSTALLATION - GENERAL
- 1.1. INSTALL FIXTURES EXACTLY AS SHOWN ON ARCHITECTURAL DRAWINGS. EACH FIXTURE SHALL BE COMPLETE WITH TRIM, ACCESSORIES, SUPPORTS AND FASTENING HARDWARE. FIXTURES AND TRIMS MUST BE C.S.A. APPROVED; EXACT LOCATIONS TO BE COORDINATED ON SITE WITH THE LATEST ARCHITECTURAL DRAWINGS.
- 1.2. PROVIDE DOMESTIC WATER PIPING, SHUT-OFF VALVES, TRAPS AND DRAINAGE FOR EACH FIXTURE. INSTALL FIXTURES COMPLETE, TESTED AND READY FOR SERVICE IN ACCORDANCE WITH MANUFACTURER INSTRUCTIONS. ARRANGE CUTTING AND PATCHING REQUIRED FOR INSTALLATION. CUTTING OF WALLS/FLOORS/CEILINGS IS THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE MADE GOOD BY OTHERS AS NOTED.
- 1.3. FINAL ROUTING OF PIPES TO BE DETERMINED ON SITE AFTER REVIEW OF STRUCTURAL, ELECTRICAL AND ARCHITECTURAL CONDITIONS. THE CONTRACTOR SHALL COORDINATE ROUTING WITH OTHER TRADES; ANY CHANGES REQUIRED DURING CONSTRUCTION SHALL BE ACCOMMODATED BY THE CONTRACTOR UNLESS THE CHANGE EXCEEDS 2.5 METRES FROM THE SHOWN CONNECTION, IN WHICH CASE ADDITIONAL COST SHALL BE ADDRESSED.
- 1.4. SUPPORT FIXTURES LEVEL AND SQUARE AND CONNECT WITH SUPPLIES, DRAINS, TRAPS AND VENTS.
- 1.5. WHERE A FAUCET HAS SEPARATE HOT AND COLD WATER HANDLES, POSITION THE HOT WATER HANDLE ON THE LEFT SIDE OF THE FAUCET.
- 1.6. WHERE FIXTURES ON LOCATED ON EXTERIOR WALLS, RUN THE WATER SUPPLIES UP THROUGH THE FLOOR. FOR OTHER FIXTURE LOCATIONS, RUN WATER SUPPLIES IN THE WALL CAVITY.
- 1.7. PROVIDE RESILIENT, WATERTIGHT AND GAS-TIGHT SEALS FOR EVERY JOINT IN A FLOOR FLANGE OR BETWEEN A FLOOR-OUTLET FIXTURE AND THE DRAIN.
2. START-UP AND TESTING
- 2.1. TEST, ADJUST AND SET TEMPERATURE CONTROL ON THERMOSTATIC MIXING VALVES TO SUPPLY A MAXIMUM WATER TEMPERATURE OF 29°C (85°F).
- 2.2. TEST, ADJUST AND SET HIGH TEMPERATURE LIMIT STOPS ON THERMOSTATIC MIXING VALVES TO SUPPLY A TEMPERED WATER NOT EXCEEDING 32°C (90°F).
- 2.3. FLOW WATER THROUGH EACH EMERGENCY FIXTURE AND TMV FOR AT LEAST TWO (2) MINUTES. RECORD THE WATER TEMPERATURE (AS MEASURED AT THE TMV) AT 10 SECONDS FROM ON-SET OF FLOW, AT THE TIME TO REACH THE CONTROL SETPOINT, AND AGAIN AT THE END OF THE TEST PERIOD.
3. TEST AND INSTALLATION RECORDS
- 3.1. AFTER COMPLETION OF TESTING AND AT TURN-OVER TO THE OWNER, ATTACH AND FILL OUT AN INSPECTION TAG TO EACH EMERGENCY FIXTURE IDENTIFYING THE DATE OF THE TEST AND THE PERSON WHO CONDUCTING THE TEST.
- 3.2. PROVIDE A REPORT OF THIS TESTING AND INCLUDE:
- 3.2.1. FIXTURE REFERENCE,
- 3.2.2. MEASURED TEMPERATURES,
- 3.2.3. DATE OF TEST(S),
- 3.2.4. SIGNATURE OF PERSON(S) CONDUCTING TEST.
- 3.3. SUBMIT A COPY OF EACH REPORT TO THE CONSULTANT AND OWNER FOR REVIEW AND ACCEPTANCE.
- 3.4. THE ABOVE TESTS ARE SUBJECT TO A DEMONSTRATION TEST AUDIT OF UP TO 10% OF THE TOTAL FIXTURE COUNT TO VERIFY COMPLIANCE. IF AUDIT TESTS ARE NOT SATISFACTORY TO THE CONSULTANT, ADDITIONAL

TESTING AND VERIFICATION WILL BE CONDUCTED BY THE CONTRACTOR UNTIL SUCH TIME AS A DEMONSTRATION AUDIT PROVIDES SATISFACTORY RESULTS TO THE CONSULTANT.

4. FIXTURE SUPPORTS

- 4.1. PROVIDE PLATES, BRACKETS, WALL CARRIERS, CLEATS, AND SUPPORTS TO SECURE FIXTURES IN PLACE.
- 4.2. FASTEN WALL BRACKETS WITH BOLTS ATTACHED TO DOUBLE STEEL SUPPORTING PLATES.
- 4.3. BOLT FIXTURE TO WALL THROUGH CORED HOLES UNDER LAVATORY WALL FLANGE, USING CHROME PLATED CARRIAGE BOLTS WITH INTEGRAL WASHERS AND EXPANSION SHIELDS.
- 4.4. INSTALL EXTRA-HEAVY-DUTY CHAIR CARRIERS FOR FIXTURES NOT DIRECTLY SUPPORTED FROM FLOOR.
- 4.5. CONCEAL VERTICAL SUPPORTS AND BASEPLATES IN WALL CONSTRUCTION.
- 4.6. APPLY SEALANT BEAD BETWEEN WALL MOUNTED FIXTURE AND FINISH WALL AND FINISH WITH A SMOOTH CONCAVE PROFILE.
- 4.7. SET FLOOR MOUNTED WATER CLOSET BOWLS IN MASTIC, AND SEAL THE FLOOR FLANGE WITH A RESILIENT, WATERTIGHT AND GAS-TIGHT FLANGE SEAL.
5. PROTECTION
- 5.1. COVER PLUMBING FIXTURES AND TRIM WITH PLYWOOD, CARDBOARD OR HEAVY PAPER AND KEPT PROTECTED BEFORE, DURING AND AFTER INSTALLATION AND UNTIL WORK IS COMPLETED AND ACCEPTED.
- 5.2. CLEAN FIXTURES, AND TRIM IMMEDIATELY PRIOR TO BUILDING COMPLETION.

WATER TREATMENT

DRAIN AND FLUSH THE AFFECTED PORTION OF THE HEATING SYSTEM AND PERFORM CHEMICAL TREATMENT. COORDINATE THE WORK WITH THE OWNER'S WATER TREATMENT SERVICE PROVIDER: AQUARIAN CHEMICALS INC. (CONTACT: MAURO CESA, CET, 905-825-3711, MCSA@AQUARIANCHEMICALS.COM). UPON COMPLETION, RESTORE SYSTEM WATER QUALITY AND PROVIDE A WATER TREATMENT REPORT CONFIRMING SYSTEM CONDITIONS.

CONTROLS

PROVIDE ALL REQUIRED CONTROL DEVICES, WIRING, AND INTERFACE HARDWARE NECESSARY FOR FULL BAS MONITORING AND CONTROL AS PER HWDSB BAS STANDARD. COORDINATE WITH THE BASE BUILDING GAS SERVICE PROVIDER, JOHNSON CONTROLS (CONTACT: RAY KAMPEN, 905-730-9685, RAYMOND.A.KAMPEN@ICI.COM).

DAYCARE FACILITY

ENSURE NO INTERRUPTION TO DAYCARE FACILITY OPERATIONS DURING CONSTRUCTION. PERFORM ANY REQUIRED SERVICE SHUTDOWNS AFTER HOURS TO MAINTAIN CONTINUOUS DAYCARE OPERATION.

CONSTRUCTION PHASING:

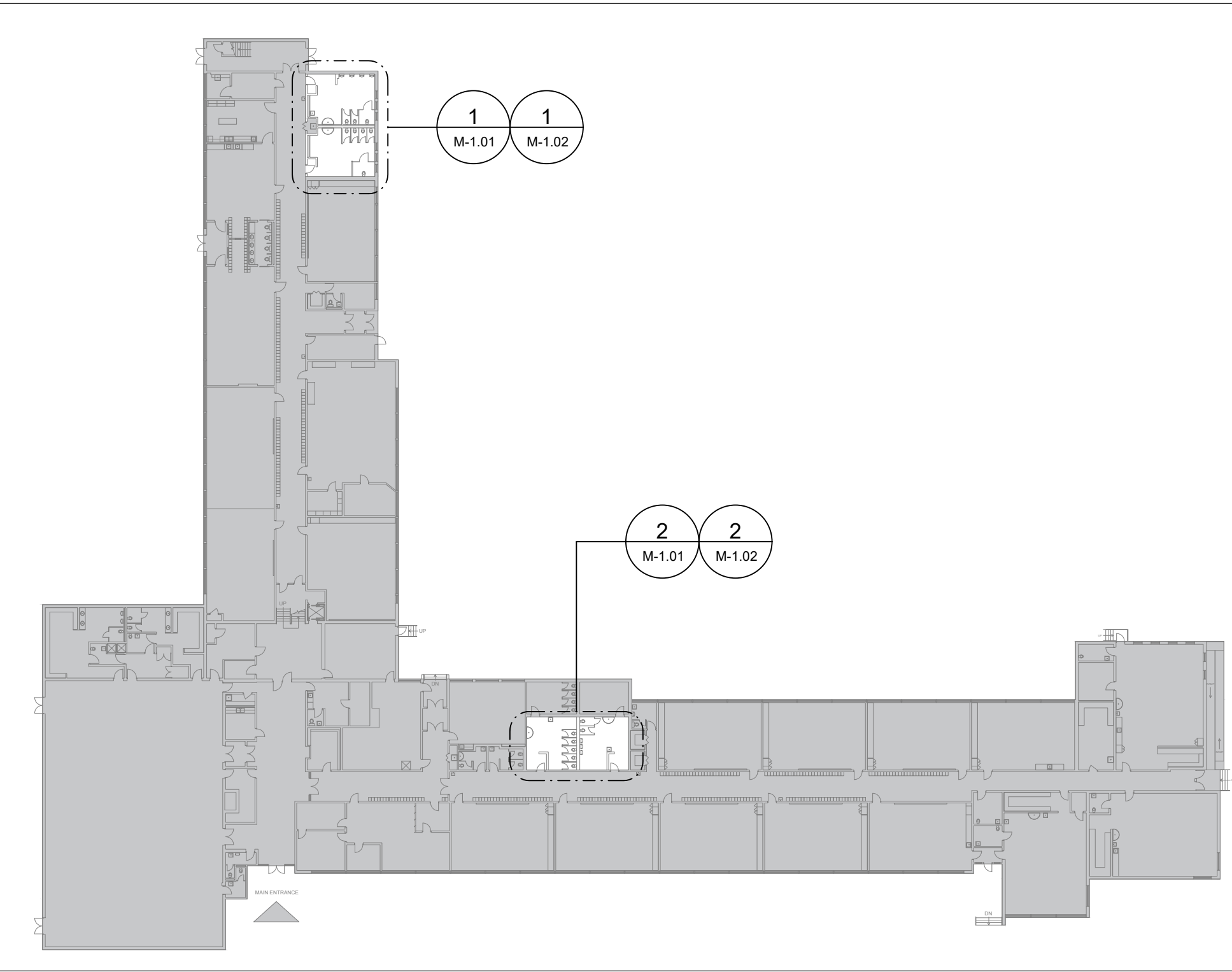
REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION PHASING AND RELATED REQUIREMENTS.

DRAWINGS LIST

DWG NO.	DRAWING NAME
M-0.01	MECHANICAL SPECIFICATIONS, LEGEND, SCHEDULE
M-1.01	MECHANICAL DEMOLITION
M-1.02	MECHANICAL NEW CONSTRUCTION
M-2.01	PLUMBING FIXTURES

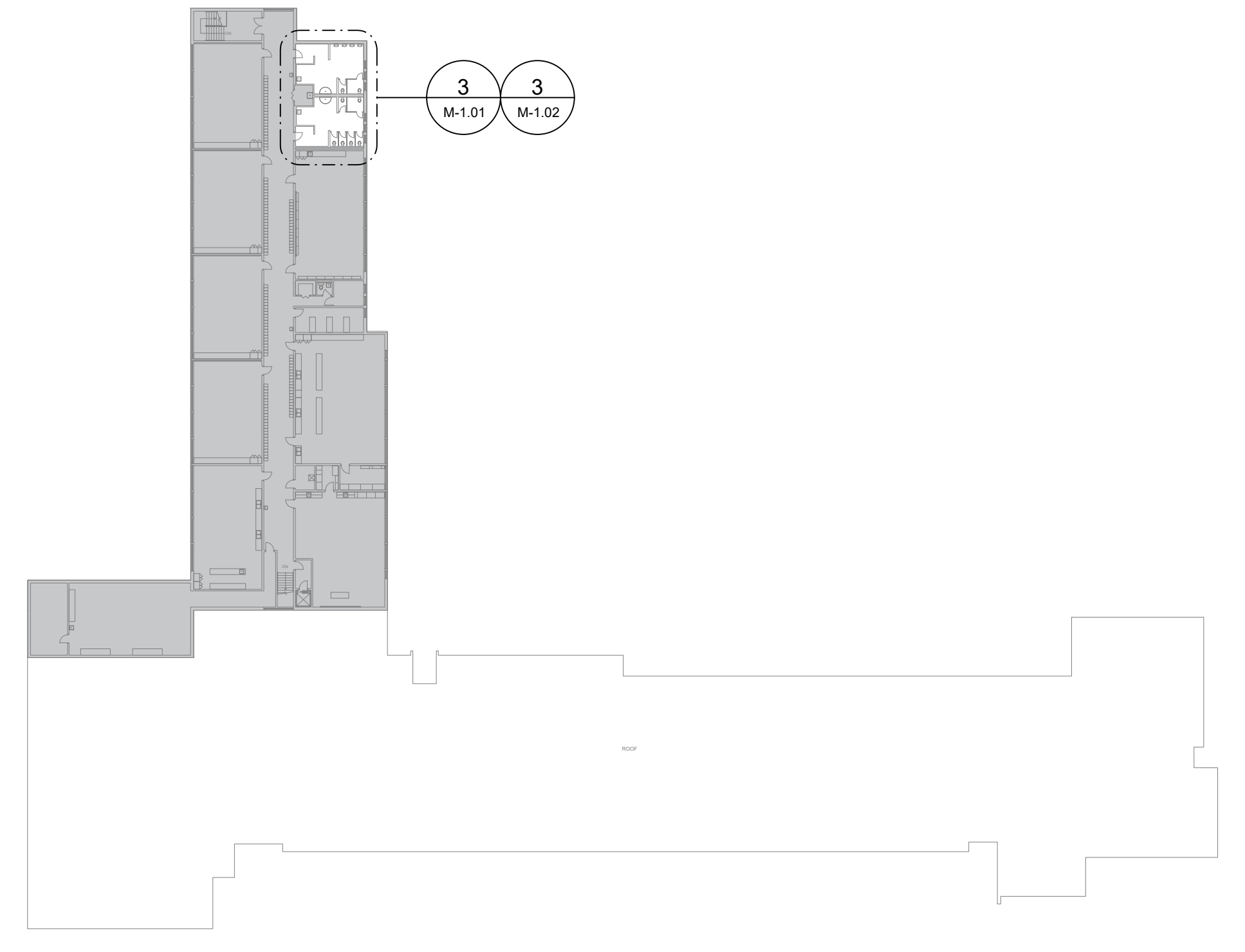
LEGEND

PLUMBING AND DRAINAGE	
SYMBOL	DESCRIPTION
	SANITARY AT HIGH LEVEL
	SANITARY UNDER SLAB OR CEILING BELOW
	FLOOR DRAIN
	TRAP PRIMER
	TRAP PRIMER ASSEMBLY C/W SOLENOID VALVE & TIMER
	SANITARY VENT
	SANITARY CLEANOUT IN ACCESSIBLE CEILING SPACE
	SANITARY CLEANOUT IN SLAB
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	AIR OUTLET OR INLET TAG



1 GROUND FLOOR - KEY MAP

M-0.01 1:500



2 SECOND FLOOR - KEY MAP

M-0.01 1:500

CONVECTOR SCHEDULE

TAG	MANUFACTURER	MODEL	LEVEL	ROOM	HEATING CAPACITY (BTU/Hr)	AWT (°F)	EAT (°F)	HEIGHT (IN)	WIDTH (IN)	LENGTH (IN)	WATER FLOW (GPM)
CV-1	TRANE OR APPROVED EQUAL	SW-A	LEVEL 2	RM 209	7,200	170	65	32	8	32	0.82

NOTE: C/W ENCLOSURE AND ACCESS PANEL FOR CONTROL VALVE SERVICE AND MAINTENANCE.

REGISTER, GRILLE & DIFFUSER SCHEDULE

TAG	MANUFACTURER	MODEL	QTY	TYPE	MATERIAL	REMARKS
E-1	PRICE OR EQUIVALENT	80	SEE PLAN	EGG CRATE GRILLE	ALUMINUM	1/2X1/2X1/2 ALUMINUM EGGCRATE CORE, C/W 1 1/4" FLAT BORDER & SCREWED FASTENING FOR SURFACE MOUNTING.
E-2	PRICE OR EQUIVALENT	630 SERIES	SEE PLAN	LOUVERED GRILLE	ALUMINUM	0" DEFLECTION 3/4 IN. BLADE SPACING, C/W BORDER & SCREWED FASTENING FOR SIDE WALL MOUNTING.

NOTES:
- PROVIDE FULL PERIMETER GASKET WITH PLASTER FRAMES CONCEALED FASTENERS AND CONCEALED OPERATOR.
- COLOR: COORDINATE WITH ARCHITECTURAL

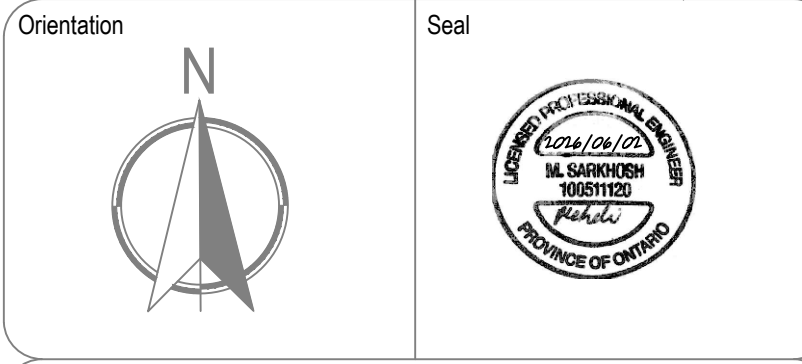
PLUMBING FIXTURES SCHEDULE

TAG/MARK/LABEL	PRODUCT CATEGORY	MANUFACTURER	MODEL NUMBER	DESCRIPTION	ROUGH IN				FAUCET/FLUSH VALVE	ACCESSORIES	REMARKS/COMMENTS
					DRAIN	VENT	HOT	COLD			
WC-1	TOILET	AMERICAN STANDARD	3451001.020	WHITE FINISH VITREOUS CHINA, EVERCLEAN® ANTIMICROBIAL SURFACE	3	1 1/2	-	1	SLOAN ROYAL 111-1 & LOW CONSUMPTION 6.0 L/PF (1.6 GPF), MANUAL	SEAT, BEMIS BEMIS COMMERCIAL 1955CT 000, FITS MOST MANUFACTURERS' ELONGATED TOILETS. WHITE, ECO-FRIENDLY HEAVY-DUTY PLASTIC WITH MOLDED-IN COLOR	PROVIDE ALL REQUIRED ACCESSORIES. COMPONENTS SHOWN ON DWG M2.01 ARE DIAGRAMMATIC/ILLUSTRATIVE ONLY.
WC-2	TOILET	AMERICAN STANDARD	3641001.020	WHITE FINISH VITREOUS CHINA	3	1 1/2	-	1	SLOAN ROYAL 111-1 & LOW CONSUMPTION 6.0 L/PF (1.6 GPF), MANUAL		SAME AS ABOVE.
UR-1	URINAL	AMERICAN STANDARD	6590001.020 7381755-000.020A	WASHBROOK® FLOWISE®, WALL-HUNG, FLUSH VALVE URINAL, STANDARD USE, VITREOUS CHINA, WHITE FINISH, 19 MM (3/4") SPUD CONNECTION, TOP SPUD, URINAL OPERATES IN THE RANGE OF 0.5 TO 3.8 L/PF (0.125 - 1.0 GPF), POWERFUL, WASHDOWN, VANDAL-RESISTANT STAINLESS STEEL STRAINER	2	1 1/2	-	3/4	WATER MARTIX UTC SENTINEL REFER TO INSTALLATION DETAILS.	CARRIER, WATTS CA-321, URINAL CARRIER, WALL PLATE COUPLING: MISSION RUBBER PRODUCTS CORP NO HUB SERIES	SAME AS ABOVE.
WS-1	GROUP HANDWASHING STATIONS	ACORN	3604-2-SO		2	1 1/4	3/4	3/4		MIXING VALVE: LAWLER 570-86820 SUPPLY: MCGUIRE LFBV170	SAME AS ABOVE.

FLOOR DRAIN AND CLEAN OUT SCHEDULE

TAG/MARK/LABEL	PRODUCT CATEGORY	MANUFACTURER	MODEL NUMBER	DESCRIPTION	BODY MATERIAL	TOPIGRATE/STAINER/DOME	COVER	OUTLET SIZE (INCHES)	REMARKS/COMMENTS
UR-1	CLEAN OUT	WATTS	CO-38CO-382-RD-RD	WALL ACCESS, NON-ADJUSTABLE, WALL CLEANOUT, GASKETED BRASS COUNTERSUNK PLUG FOR URINAL	CAST IRON	ROUND	STAINLESS STEEL ACCESS COVER	51 MM (2") PIPE SIZE, NO-HUB OUTLET	
FD	FLOOR DRAIN	WATTS	FD-103-C-A-6-7	FINISHED AREA, FLOOR DRAIN, ANCHOR FLANGE, TRAP PRIMER TAPPING, REVERSIBLE MEMBRANE CLAMP, COLLAR WITH PRIMARY AND SECONDARY WEEPHOLES, VANDAL-PROOF, TRAP PRIMER TAPPING	EPOXY COATED CAST IRON, STANDARD BODY MATERIAL	ADJUSTABLE, 6 MM (1/4") THICK TOP, ROUND, UNSIZED STRAINER		76 MM (3") PIPE SIZE, TO BE DETERMINED	USE SQUARE STRAINER IN TILED AREAS AND ROUND STRAINER ELSEWHERE. C/W TRAP PRIMER
CO	CLEAN OUT	WATTS	CO-200-R	UNFINISHED AREA, ADJUSTABLE, FLOOR CLEANOUT	EPOXY COATED CAST IRON, STANDARD (EPOXY COATED CAST IRON)	ROUND, 130 MM (5-18") NICKEL BRONZE TOP	UNSIZED COVER	UNSIZED PIPE, TO BE DETERMINED	

5.0	ISSUED FOR CONSTRUCTION	2026/06/02
4.0	RE-ISSUED FOR TENDER	2026/03/25
3.0	ISSUED FOR TENDER	2026/02/17
2.0	ISSUED FOR PERMIT	2025/12/15
1.0	ISSUED FOR CLIENT REVIEW	2025/07/19
Rev	Description	Date



Key Plan

The Contractor shall check and verify all dimensions and report all errors and omissions to the Owner's MBS Designee (as applicable) for his/her written direction before proceeding with the Work.

A	A	Detail No
B	B	Sheet No where detailed

The specifications are to be considered as an integral part of these drawings. Neither the drawings nor the specifications shall be used alone.

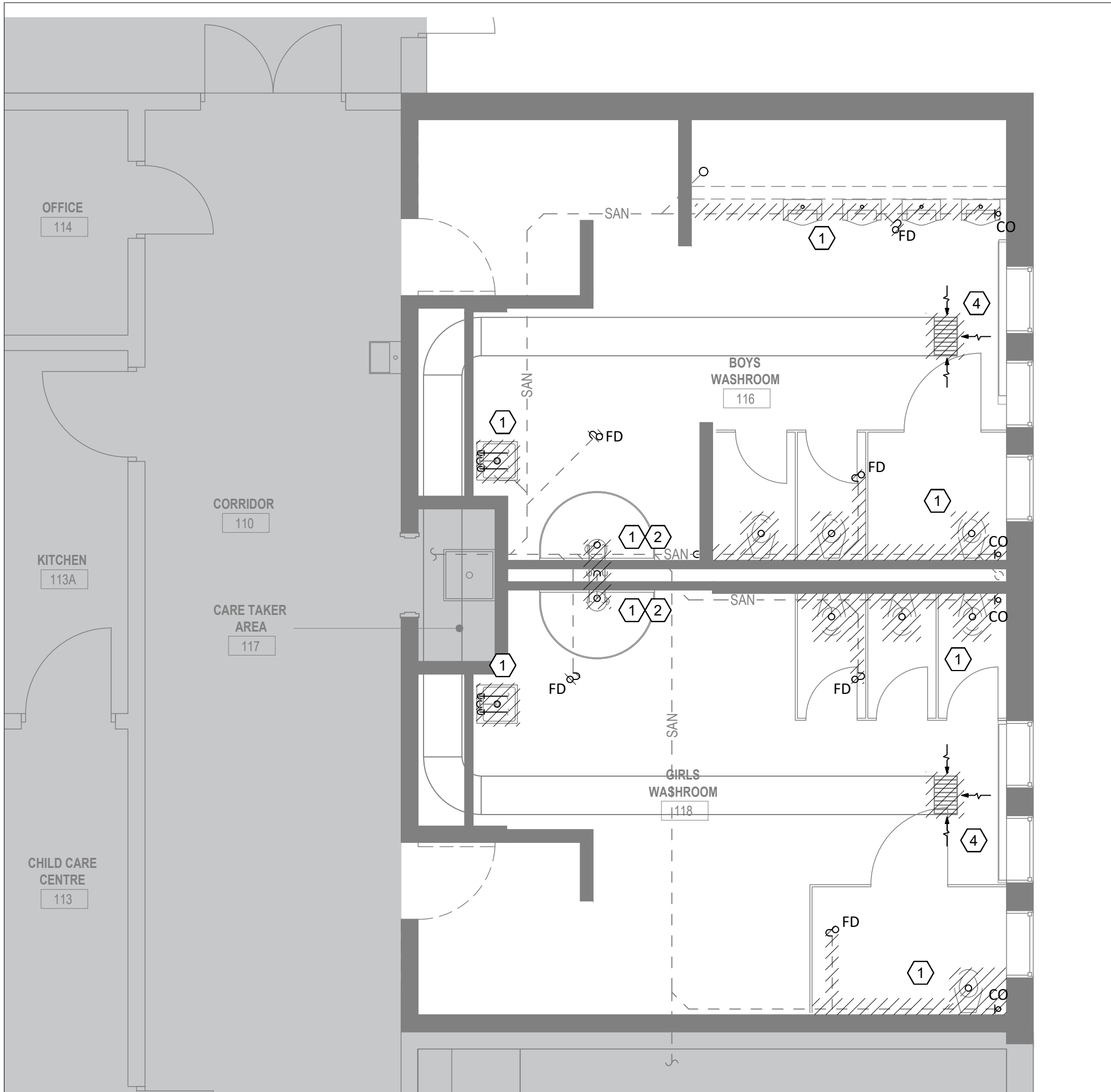


Project: Chedoke Elementary School Washroom Renovation

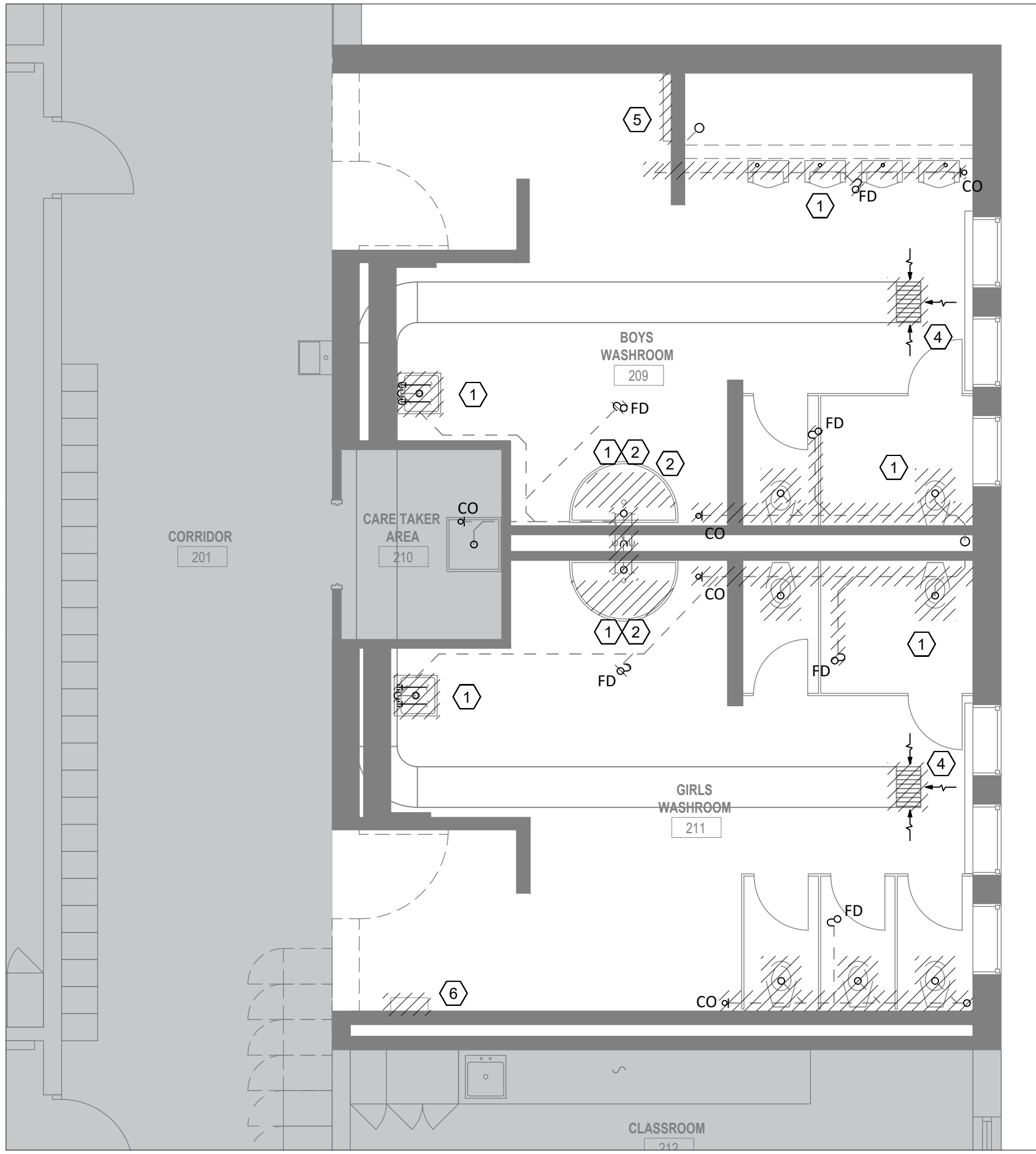
Location: 500 Bendamere Ave., Hamilton, ON

DRAWING TITLE : MECHANICAL SPECIFICATIONS, LEGEND, SCHEDULE

Substantial Performance Date:	TBD	CLIENT PROJECT NO :	25-25
DATE :	2025-11-03	PROJECT NO :	D102
SCALE :	AS SHOWN	DRAWN BY :	MA
DESIGNED BY :	MF	DRAWING NO :	M-0.01
APPROVED BY :	MS		



1 ROOMS 116, 118 MECHANICAL DEMOLITION
M-1.01 1 : 50



3 ROOMS 209, 211 MECHANICAL DEMOLITION
M-1.01 1 : 50



2 ROOMS 139, 140 MECHANICAL DEMOLITION - FULL RENOVATION
M-1.01 1 : 50

CONSTRUCTION NOTES

GENERAL

- ASSUMPTIONS HAVE BEEN MADE REGARDING EXISTING CONDITIONS DUE TO THE LACK OF ACCURATE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING RELATED SERVICES ON SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL CARRY THE COST AS PART OF THE ORIGINAL BID FOR ADJUSTMENTS, RELOCATIONS, OR EXTENSIONS OF SERVICES TO SUIT THE NEW LAYOUT.
- SANITARY VENT PIPING IS NOT SHOWN ON THE DRAWINGS. SUPPLY AND INSTALL ALL VENT PIPING REQUIRED TO SERVE EACH FIXTURE, ENSURING THE SYSTEM IS COMPLETE AND MEETS LOCAL PLUMBING CODES AND AUTHORITIES HAVING JURISDICTION. CONNECT TO EXISTING OR NEWLY PROVIDED VENT STACKS AS APPLICABLE.
- PROVIDE TEMPORARY PLUGS AS REQUIRED TO PREVENT ODORS.
- INSTALL OVERHEAD PIPING TIGHT TO STRUCTURE WITH INSULATION CLEARANCE.
- INCLUDE SHUT-OFF VALVES ON ALL RISERS AND EQUIPMENT CONNECTIONS.
- COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL CUTTING, EXCAVATION, BACKFILLING AND FINISHES.
- COORDINATE THE NEW SERVICES WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES AND STRUCTURAL MEMBERS. OFFSET PIPE ROUTES AS REQUIRED.
- PROVIDE AN ACCESS DOOR FOR VALVES OR OTHER PLUMBING COMPONENTS INSTALLED IN CONCEALED SPACES THAT REQUIRE ACCESS FOR SERVICE AND MAINTENANCE.
- MAINTAIN CONTINUOUS OPERATION OF ESSENTIAL SERVICES DURING CONSTRUCTION. PHASE WORK TO AVOID DISRUPTIONS.
- VERIFY STRUCTURAL INTEGRITY BEFORE OPENINGS.

KEYED NOTES:

- REMOVE ALL EXISTING PLUMBING FIXTURES, FLOOR DRAINS, AND CLEANOUTS IN THE WASHROOMS AS SHOWN, C/W ALL ASSOCIATED DOMESTIC WATER, DRAIN, AND VENT PIPING TO THE EXTENT REQUIRED TO COMPLETE THE NEW INSTALLATION, INCLUDING BACK TO MAIN WHERE NECESSARY, AND CAP. REMOVE EXISTING ACCESS PANELS UPON REMOVAL OF EXISTING LAVATORIES.
- ADDITIONAL NOTES FOR WASH FOUNTAINS:
 - ROOMS 116 & 118:** REMOVE EXISTING WASH FOUNTAINS AND REINSTALL AFTER COMPLETION OF NEW WALL AND FINISH WORK.
 - ROOMS 139 & 140:** REMOVE EXISTING WASH FOUNTAINS AND CONFIRM UNITS ARE FULLY OPERATIONAL AND BEAR A CSA LABEL FOR POTENTIAL RELOCATION.
 - ROOMS 209 & 211:** REMOVE EXISTING WASH FOUNTAINS AND PROVIDE NEW UNITS UNDER THE BASE BID. IF UNITS REMOVED FROM ROOMS 139 & 140 ARE CONFIRMED FULLY OPERATIONAL AND BEAR A CSA LABEL, RELOCATE THEM TO ROOMS 209 & 211 AND PROVIDE A CREDIT FOR THE NEW UNITS SPECIFIED FOR THESE ROOMS.
- THE LOCATIONS OF DRAIN PIPING IN ROOM 139 & 140 WERE UNKNOWN DURING DESIGN, AND NOT SHOWN ON THIS DRAWING. THE CONTRACTOR SHALL CONDUCT INVESTIGATION, INCLUDING VIDEO LOCATING, TO IDENTIFY THE EXACT LOCATION OF DRAIN PIPING. THE EXISTING FLOOR DRAIN IS CURRENTLY PLUGGED. PROVIDE NEW DOMESTIC WATER AND SANITARY PIPING TO SUITE THE NEW FIXTURES LOCATION AS REQUIRED. PROVIDE MARK UPS FOR AS-BUILT DRAWINGS.
- REMOVE THE EXISTING EXHAUST AIR GRILLES.
- REMOVE THE EXISTING HEATING CONVECTOR C/W ASSOCIATED COMPONENTS.
- OPEN EXISTING ENCLOSURE AND INVESTIGATE CONCEALED PIPING. IF FOUND ABANDONED, CUT AND CAP PIPING BELOW FLOOR. ALLOW FOR CEILING OPENING AND REINSTATEMENT AS REQUIRED. IF FOUND OPERATIONAL, PROVIDE CREDIT FOR DEMOLITION WORK.

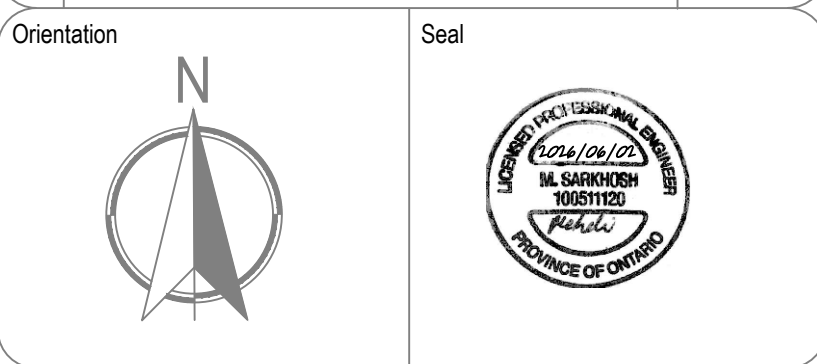


ROOM 211



ROOM 211

5.0	ISSUED FOR CONSTRUCTION	2026/06/02
4.0	RE-ISSUED FOR TENDER	2026/03/25
3.0	ISSUED FOR TENDER	2026/02/17
2.0	ISSUED FOR PERMIT	2025/12/15
1.0	ISSUED FOR CLIENT REVIEW	2025/07/19
Rev	Description	Date



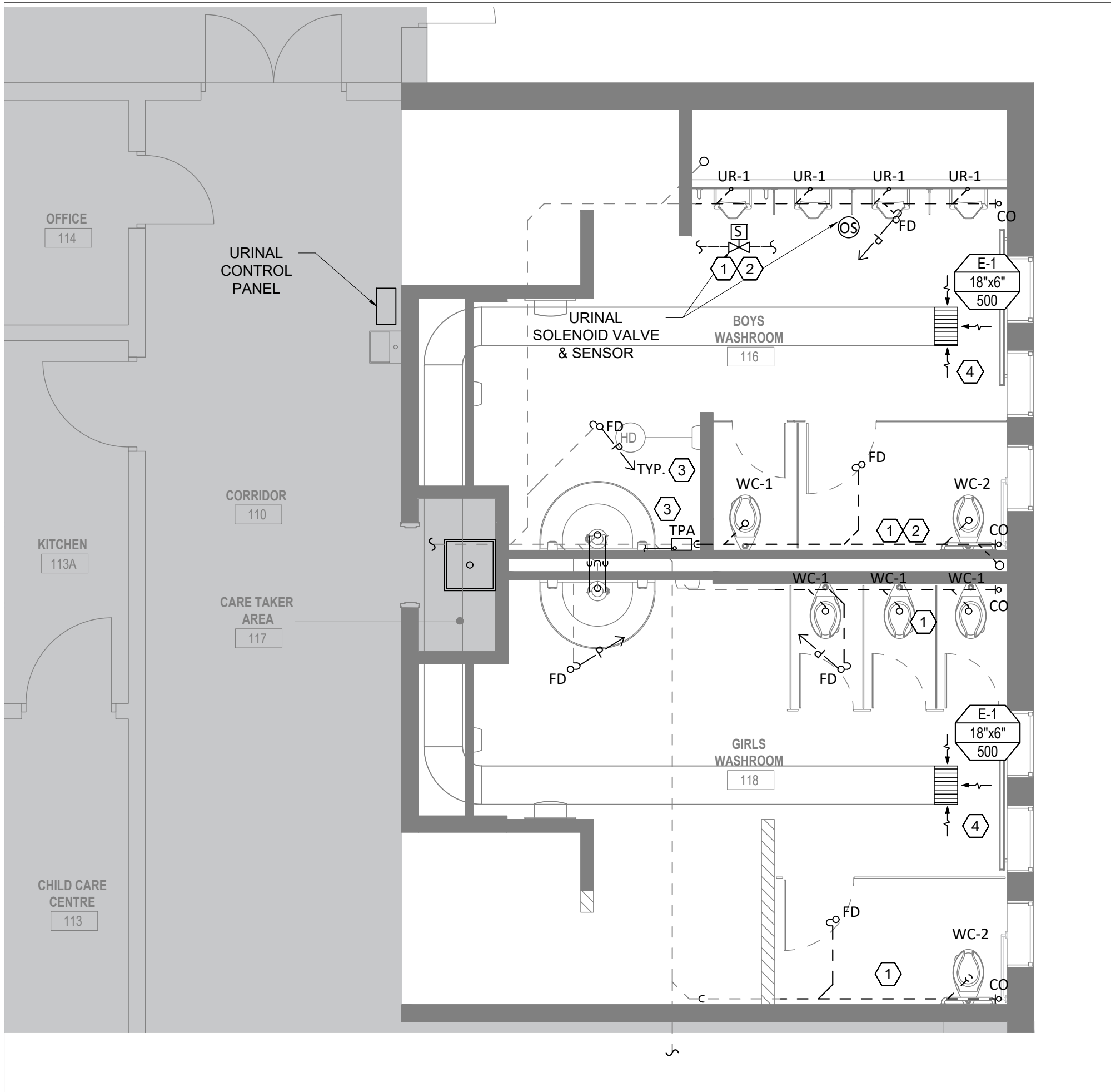
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A	A	Detail No
B	B	Sheet No where detailed

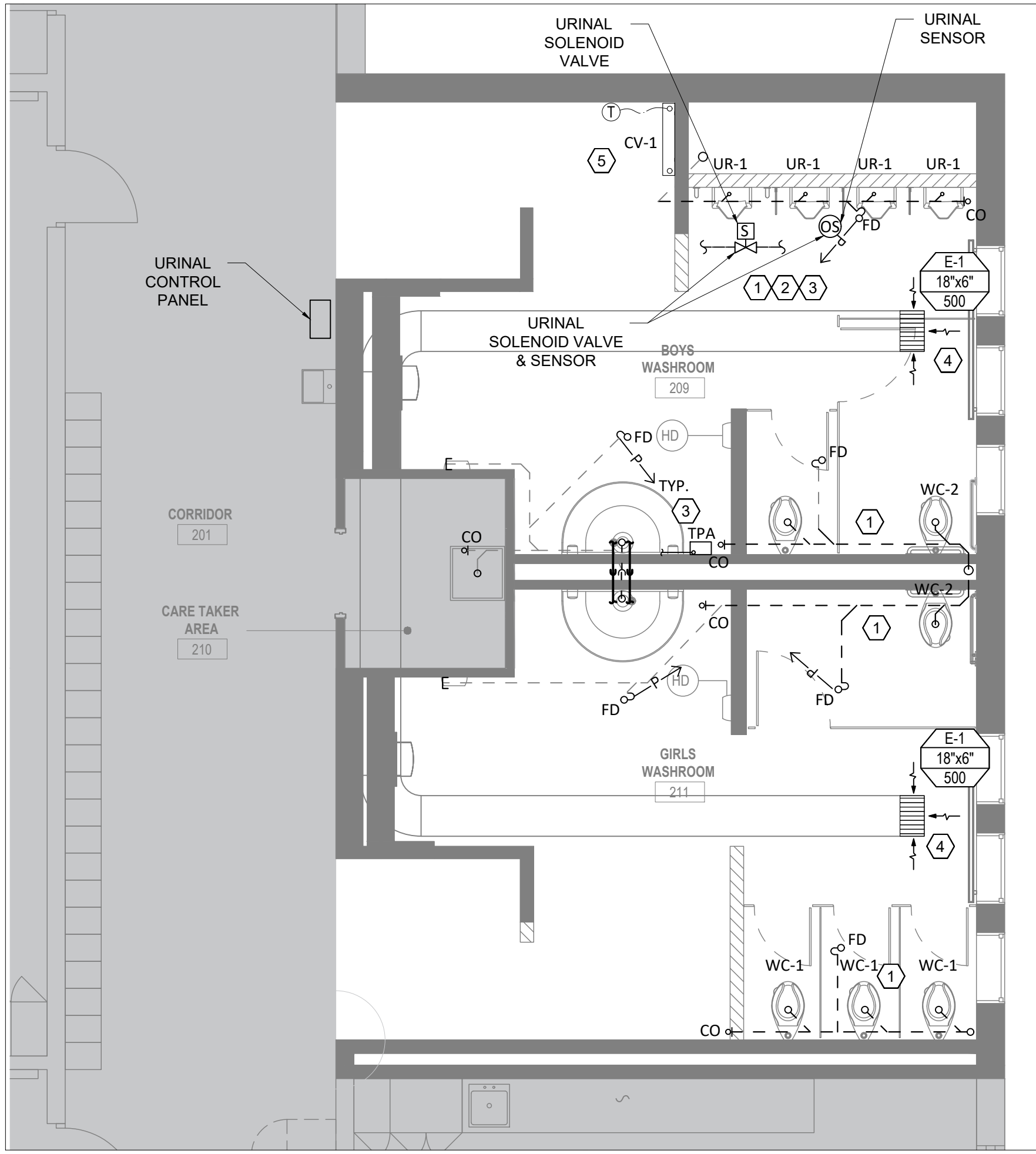
The specifications are to be considered as an integral part of these drawings. Neither the drawings nor the specifications shall be used alone.



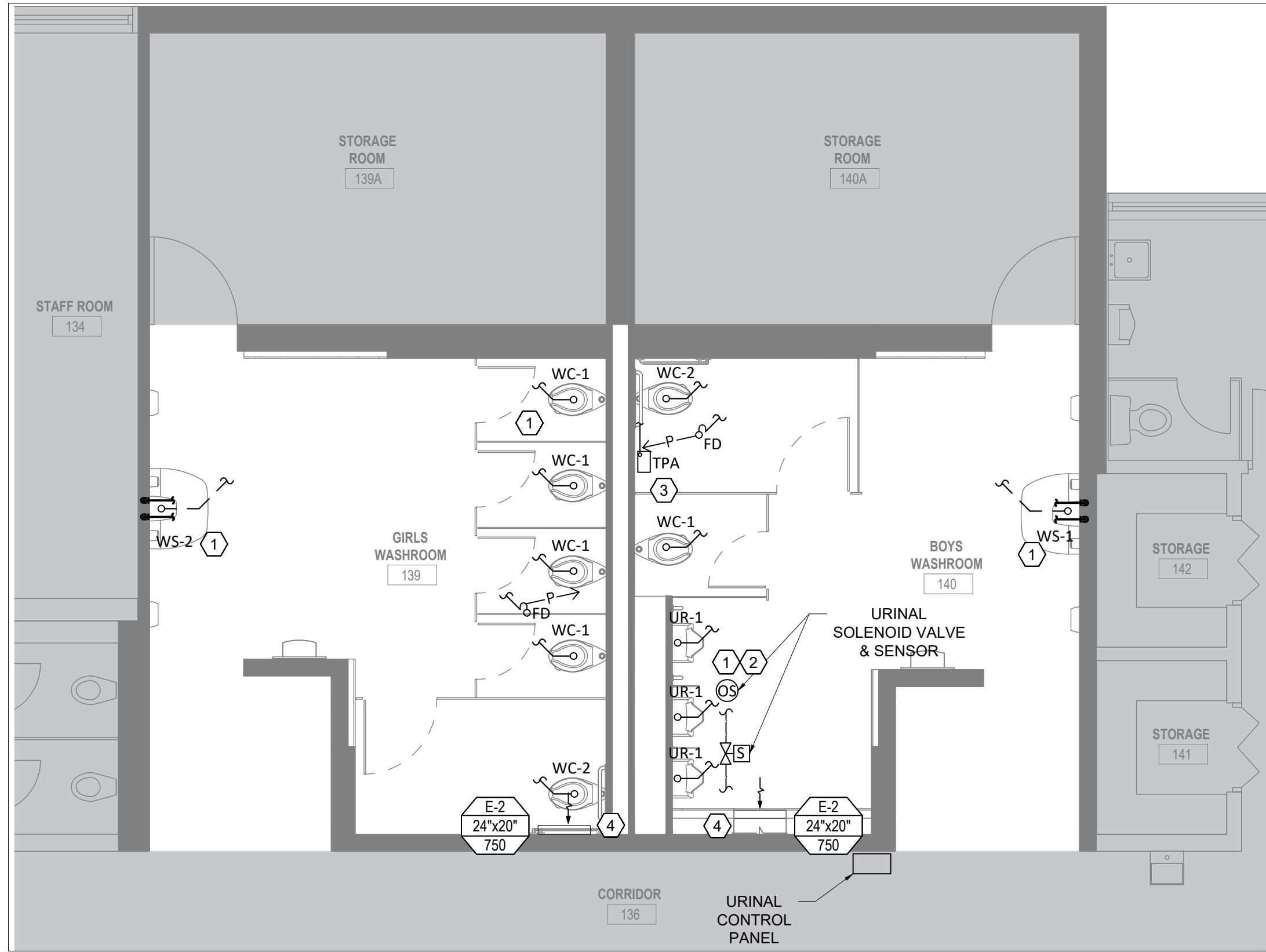
Project: Chedoke Elementary School Washroom Renovation	
Location: 500 Bendamere Ave., Hamilton, ON	
DRAWING TITLE : MECHANICAL DEMOLITION LAYOUT	
Substantial Performance Date: TBD	CLIENT PROJECT NO : 25-25
DATE : 2025-11-03	PROJECT NO : D102
SCALE : AS SHOWN	DRAWING NO : M-1.01
DRAWN BY : MA	
DESIGNED BY : MF	
APPROVED BY : MS	



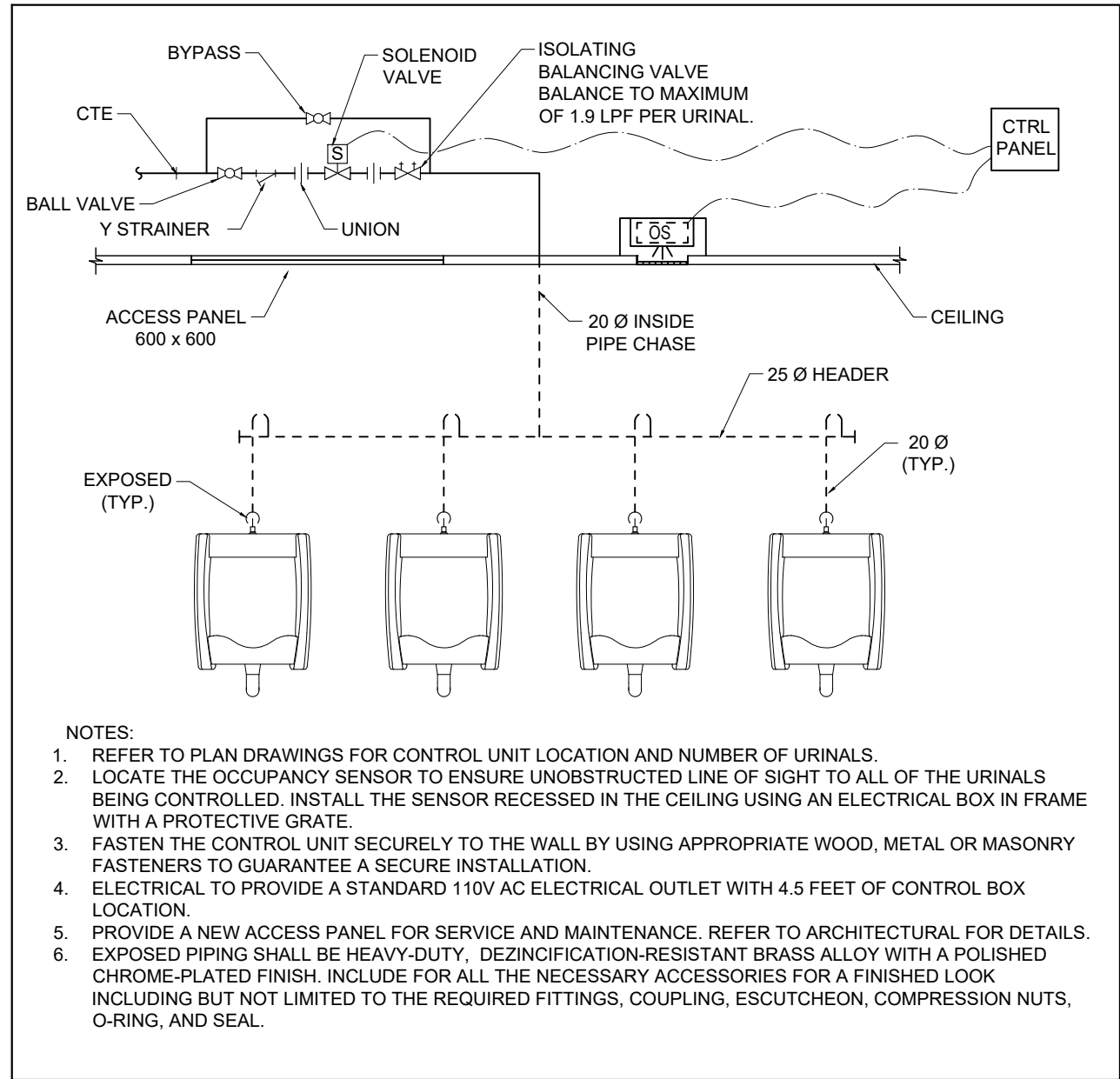
1 ROOMS 116, 118 MECHANICAL NEW CONSTRUCTION
M-1.02 1 : 50



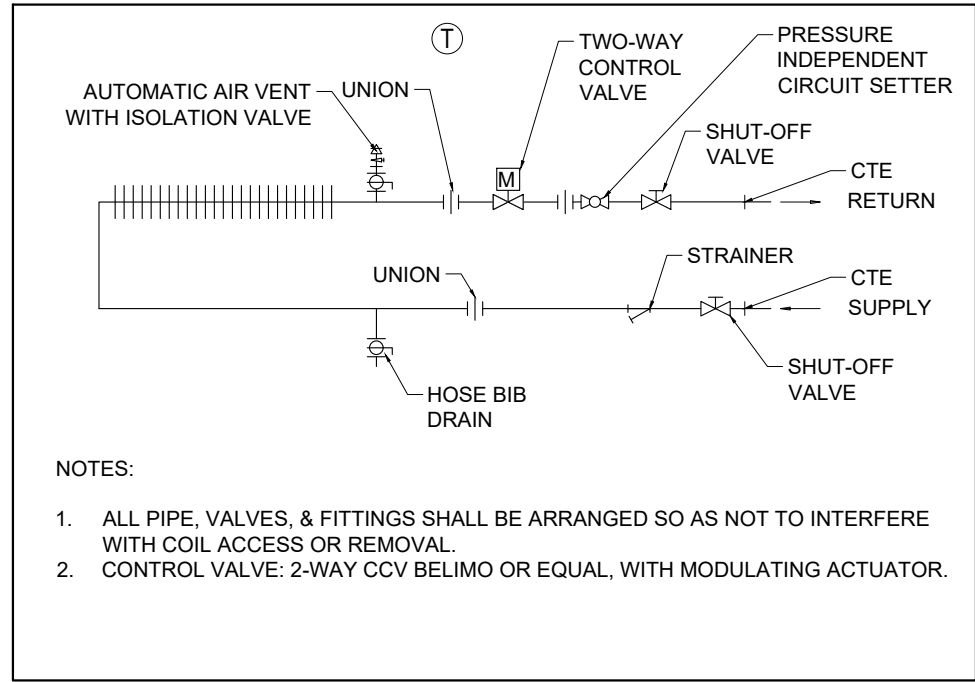
3 ROOMS 209, 211 MECHANICAL NEW CONSTRUCTION
M-1.02 1 : 50



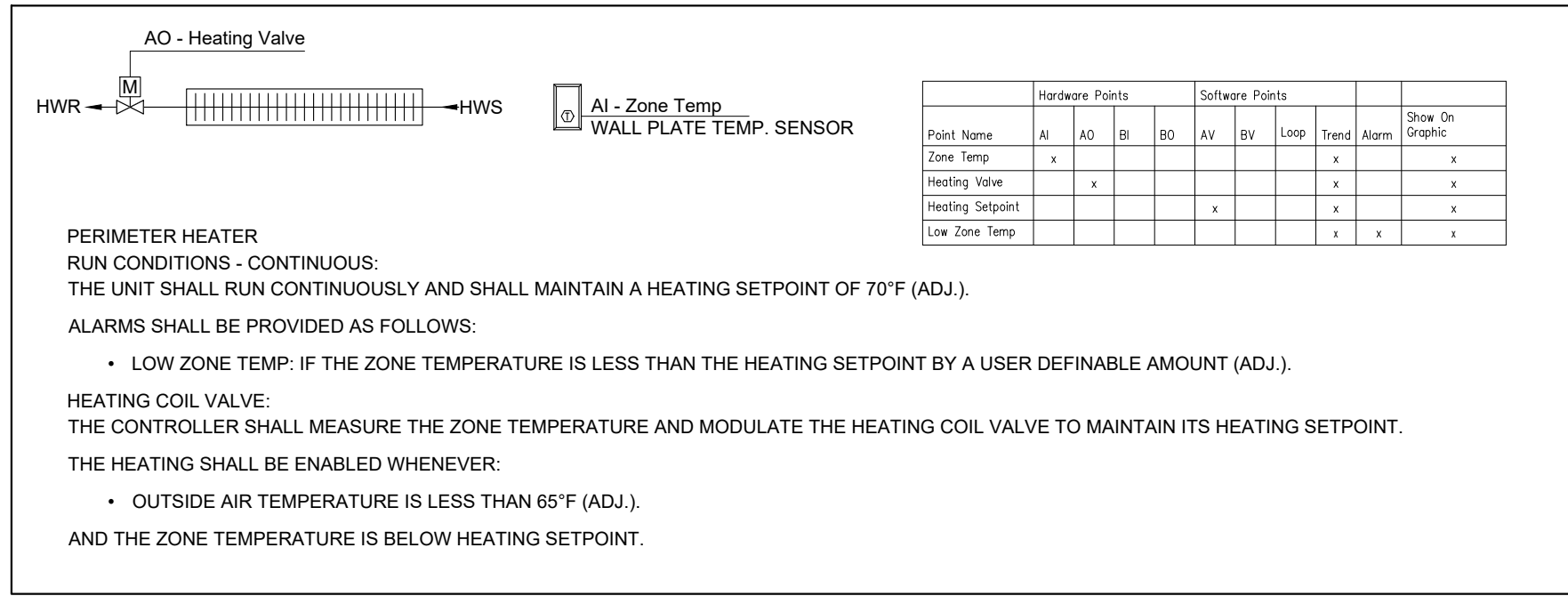
2 ROOMS 139, 140 MECHANICAL NEW CONSTRUCTION - FULL RENOVATION
M-1.02 1 : 50



4 URINAL FLUSH SYSTEM INSTALLATION DETAILS
M1.02 N.T.S.



5 WALL FIN/CONVECTOR HEATER
M1.02 N.T.S.



6 HEATING TERMINAL UNITS CONTROLS
M1.02 N.T.S.

CONSTRUCTION NOTES

GENERAL

- ASSUMPTIONS HAVE BEEN MADE REGARDING EXISTING CONDITIONS DUE TO THE LACK OF ACCURATE AS-BUILT DRAWINGS. THE CONTRACTOR SHALL VERIFY ALL EXISTING RELATED SERVICES ON SITE AND REPORT ANY DISCREPANCIES TO THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL CARRY THE COST AS PART OF THE ORIGINAL BID FOR ADJUSTMENTS, RELOCATIONS, OR EXTENSIONS OF SERVICES TO SUIT THE NEW LAYOUT.
- SANITARY VENT PIPING IS NOT SHOWN ON THE DRAWINGS. SUPPLY AND INSTALL ALL VENT PIPING REQUIRED TO SERVE EACH FIXTURE, ENSURING THE SYSTEM IS COMPLETE AND MEETS LOCAL PLUMBING CODES AND AUTHORITIES HAVING JURISDICTION. CONNECT TO EXISTING OR NEWLY PROVIDED VENT STACKS AS APPLICABLE.
- PROVIDE TEMPORARY PLUGS AS REQUIRED TO PREVENT ODORS.
- INSTALL OVERHEAD PIPING TIGHT TO STRUCTURE WITH INSULATION CLEARANCE.
- INCLUDE SHUT-OFF VALVES ON ALL RISERS AND EQUIPMENT CONNECTIONS.
- COORDINATE WITH THE GENERAL CONTRACTOR FOR ALL CUTTING, EXCAVATION, BACKFILLING AND FINISHES.
- COORDINATE THE NEW SERVICES WITH EXISTING MECHANICAL AND ELECTRICAL SERVICES AND STRUCTURAL MEMBERS. OFFSET PIPE ROUTES AS REQUIRED.
- PROVIDE AN ACCESS DOOR FOR VALVES OR OTHER PLUMBING COMPONENTS INSTALLED IN CONCEALED SPACES THAT REQUIRE ACCESS FOR SERVICE AND MAINTENANCE.
- MAINTAIN CONTINUOUS OPERATION OF ESSENTIAL SERVICES DURING CONSTRUCTION. PHASE WORK TO AVOID DISRUPTIONS.
- VERIFY STRUCTURAL INTEGRITY BEFORE OPENINGS.

KEYED NOTES:

- SUPPLY AND INSTALL NEW PLUMBING FIXTURES AS SHOWN AND AS INDICATED ON THE FIXTURE SCHEDULE, C/W ALL ASSOCIATED DOMESTIC WATER, DRAIN, AND VENT PIPING. EXTEND NEW PIPING AS REQUIRED TO SUIT NEW FIXTURE LOCATIONS AND TO CONNECT TO EXISTING SYSTEMS, INCLUDING BACK TO MAIN WHERE NECESSARY. REFER TO FIXTURE SCHEDULE FOR MINIMUM PIPE SIZES AND CONNECTION REQUIREMENTS. PROVIDE NEW ACCESS PANEL FOR THE NEW CLEAN OUTS AND TRAP PRIMERS. COORDINATE WITH ARCHITECTURAL FOR ACCESS PANEL DETAILS.
- SUPPLY AND INSTALL URINAL FLUSHING SYSTEM AS PER INSTALLATION DETAIL SHOWN C/W ALL ASSOCIATED NEW PIPING AND CONTROLS FOR A FULLY OPERATIONAL SYSTEM.
- SUPPLY AND INSTALL A NEW ELECTRONIC TRAP PRIMER SYSTEM COMPLETE WITH DISTRIBUTION PIPING, MANIFOLDS, AND CONNECTION TO FLOOR DRAIN TRAPS AS SHOWN. COORDINATE POWER SUPPLY AND CONTROL REQUIREMENTS. VERIFY INSTALLATION LOCATION AND EXISTING CONDITIONS ON SITE. RELOCATE AND MODIFY AS REQUIRED. ALLOW FOR FLOOR CUTTING, PATCHING AND REINSTATEMENT.
- SUPPLY AND INSTALL NEW EXHAUST AIR GRILLE. VERIFY SIZE ON SITE TO SUIT EXISTING OPENING. ALLOW FOR DUCTWORK MODIFICATION AND EXTENSION TO MOUNT THE EXHAUST AIR GRILLE FLUSHED ON THE NEW WALL IN ROOM 140. PERFORM DUCT CLEANING FOR THE ENTIRE EXHAUST AIR DISTRIBUTIONS WITHIN THE WASHROOMS' AREAS. CARRY OUT AIR BALANCING TO VERIFY AND ADJUST AIRFLOW RATES TO MEET DESIGN REQUIREMENTS AS SHOWN. SUBMIT AIR BALANCING REPORT FOR REVIEW.
- SUPPLY AND INSTALL NEW TERMINAL UNIT C/W ALL ASSOCIATED COMPONENTS AS PER INSTALLATION DETAILS. PROVIDE NEW CONTROL VALVE AND WALL PLATE TEMPERATURE SENSOR C/W NEW CONTROLS WITH WIRING AND CONDUIT AS REQUIRED AND INTEGRATE TO THE EXISTING BAS SYSTEM. UTILIZE EXISTING RECESSED CONDUIT TO RUN NEW WIRING; IF NOT AVAILABLE, PROVIDE SURFACE-MOUNTED METAL RACEWAY. PROVIDE NEW PIPING, INSULATION, AND SUPPORT CONNECT TO EXISTING AS REQUIRED. ALLOW FOR SYSTEM DRAINING, FILLING, TESTING AND WATER TREATMENT TO COMPLETE INSTALLATION IN COORDINATION WITH SCHOOL BOARD.
- PROVIDE CUSTOM 304 BRUSHED STAINLESS STEEL PIPE COVER, MIN. 20 GA. FOR ARCHITECTURAL CONCEALMENT OF EXISTING EXPOSED PIPING FOR THE CONVECTORS IN ROOM 116 & 118. COORDINATE WITH FIELD CONDITIONS. PROVIDE CLEAN FINISH WITH CONCEALED FASTENERS. REFER TO PHOTO BELOW.
- ALLOW FOR HEATING CONVECTORS ENCLOSURES MODIFICATION WITH NEW CAP ENDS TO SUIT THE NEW WASHROOM PARTITIONS IN ROOM 116 & 118. REFER TO PHOTO BELOW.

5.0	ISSUED FOR CONSTRUCTION	2026/06/02
4.0	RE-ISSUED FOR TENDER	2026/03/25
3.0	ISSUED FOR TENDER	2026/02/17
2.0	ISSUED FOR PERMIT	2025/12/15
1.0	ISSUED FOR CLIENT REVIEW	2025/07/19

Rev	Description	Date
Orientation	Seal	



The Contractor shall check and verify all dimensions and report all errors and omissions to the Owner's/MBS Designee (as applicable) for his/her written direction before proceeding with the Work.

A	A	Detail No
B	B	Sheet No where detailed

The specifications are to be considered as an integral part of these drawings. Neither the drawings nor the specifications shall be used alone.

Architect

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Engineer

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Client

HWDSB

Project: Chedoke Elementary School Washroom Renovation

Location: 500 Bendamere Ave., Hamilton, ON

DRAWING TITLE: MECHANICAL NEW CONSTRUCTION LAYOUT

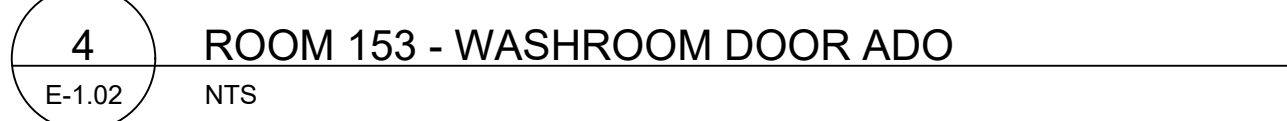
Substantial Performance Date:	TBD	CLIENT PROJECT NO.:	25-25
DATE:	2025-11-03	PROJECT NO.:	D102
SCALE:	AS SHOWN	DRAWN BY:	MA
DESIGNED BY:	MF	APPROVED BY:	MS

M-1.02



- 1 EXISTING HEAT/SMOKE DETECTOR TO REMAIN. PROTECT IN PLACE DURING CONSTRUCTION. MODIFY EXISTING SURFACE-MOUNTED CONDUIT TO RECESSED CONDUIT AND REINSTALL EXISTING HEAT/SMOKE DETECTOR FLUSH WITH CEILING.
- 2 REMOVE ALL EXISTING CEILING-MOUNTED LIGHT FIXTURES C/W ASSOCIATED COMPONENTS, MOUNTING HARDWARE, AND WIRING TO NEAREST JUNCTION BOX. CAP UNUSED CONDUCTORS AND DISPOSE OF REMOVED MATERIALS.
- 3 REMOVE EXISTING LIGHT SWITCH AND ASSOCIATED WIRING BACK TO NEAREST JUNCTION BOX. CAP UNUSED CONDUCTORS. PLUG AND SEAL THE OLD OPENING.
- 4 DISCONNECT AND REMOVE EXISTING ELECTRICAL CONNECTION OF THE PLUMBING FIXTURES C/W THE ASSOCIATED TRANSFORMER, WIRING AND CONDUIT BACK TO THE PANEL AND MAKE SAFE.
- 5 DISCONNECT AND REMOVE EXISTING HAND DRYERS C/W THE ASSOCIATED WIRING AND CONDUIT BACK TO NEAREST JUNCTION BOX. CAP UNUSED CONDUCTORS AND DISPOSE OF REMOVED MATERIALS.
- 6 VERIFY LOCATION AND DISCONNECT ELECTRICAL CONNECTIONS AND TRANSFORMER FEEDING THE EXISTING PLUMBING FIXTURES TO ACCOMMODATE RELOCATION OF THE FIXTURE.
- 7 DISCONNECT AND REMOVE THE EXISTING SURFACE MOUNTED JUNCTION BOX C/W WIRING, CONDUIT AND MAKE SAFE. CAP UNUSED CONDUCTORS AND DISPOSE OF REMOVED MATERIALS.
- 8 REMOVE EXISTING SURFACE-MOUNTED WAVE-TO-OPEN DROU SENSOR C/W ASSOCIATED WIRING AND CONDUIT AS REQUIRED DUE TO WALL DEMOLITION. RETAIN DEVICE FOR REINSTALLATION.

DESIGNED BY :	MF	E-1.01
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ELECTRICAL APPLIANCES					
LABEL	QTY	AMP	WATTS/HZ	[MANUFAC]	DESCRIPTION
HD	12	8.3	120V/60HZ	SLIMDRI	SURFACE-MOUNTED ADA COMPLIANT HAND DRYERS, STAINLESS STEEL WITH POLISHED FINISH, KIT #L-972, UNIT WEIGHT 10.7 LBS (4.8 KG), UNIT DIMENSIONS 10.7 x 11.43 x 3.9 INCHES

0 10mm 20 40 60 80 100 120 140 160 180 200mm

E-1.02