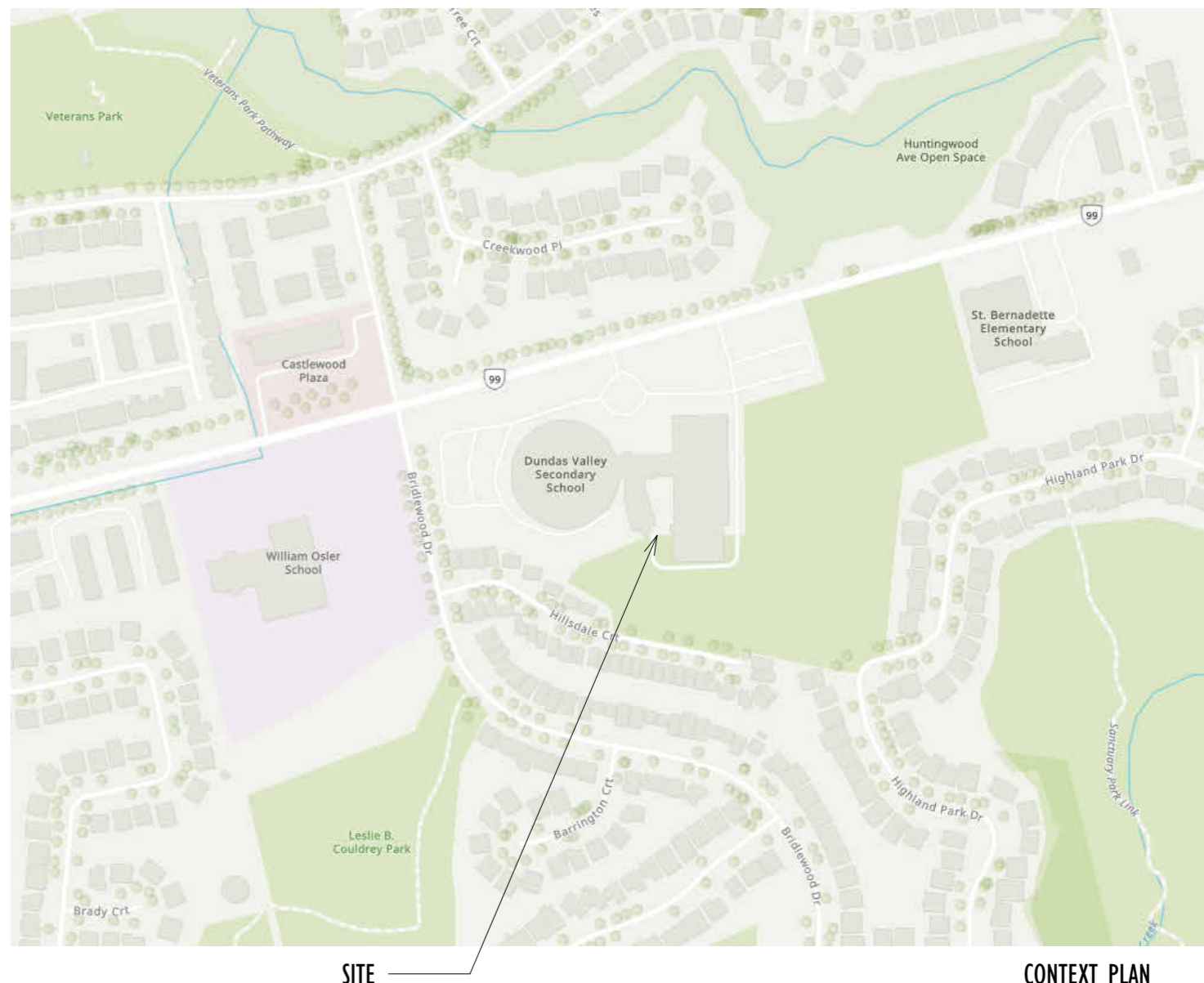


ABBREVIATIONS	
A.B.	AIR BARRIER
AC	ACOUSTIC
ACT / AT	ACOUSTIC CEILING TILE
ACB	ACOUSTIC CONCRETE BLOCK
AD	AREA DRAIN
ADD'L	ADDITIONAL
AFF	ABOVE FINISHED FLOOR
AL / ALUM	ALUMINIUM
AO	AUTO OPENER
ARCH.	ARCHITECTURAL
AVB	AIR & VAPOUR BARRIER MEMBRANE
B	BENCH - FOLD-UP BARRIER FREE SHOWER BENCH
BC	BRICK COURSES
BF	BARRIER FREE
BFIN	BROCH FINISH DIRECTION
BMEC	BUILDING MATERIALS EVALUATION COMMISSION
BR	BRICK MASONRY
B/O	BOTTOM OF
CB	CONCRETE BLOCK
C.I.P.	CAST IN PLACE
C.O.J.	CHECK ON JOB
CONC	CONCRETE
CONT	CONTINUOUS
CC	CENTRE TO CENTRE
CJ	CONTROL JOINT
CLR	CLEAR
CL	CENTRE LINE
CL	CLEAN CUT
CP	CONTROL PANEL
CR	CARD READER
CS	CLEAR SEALER
CPT	CARPET
CT	CERAMIC TILE
C/O	COOKTOP
C/W	COMPLETE WITH
CW / C.W.	CURTAINWALL
DCT	DIAPER CHANGING TABLE
DF	DRINKING FOUNTAIN
DW	DISHWASHER
DWG	DRAWING
EIS	EXTERIOR INSULATED FINISHING SYSTEM
ELECT	ELECTRICAL
EP	ELECTRICAL PANEL
EPX	EPOXY COATING (FLOORING)
EX. / EXIST.	EXISTING
EXP	EXPOSED
ENCL.	ENCLOSURE
EXT	EXTERIOR
FD	FLOOR DRAIN
FHC	FIRE HOSE CABINET
FIN	FINISH
FL / FLR	FLOOR
FL-#	METAL CLADDING/ FLASHINGS
FO	FINISHED OPENING
FP	FIRE PROTECTION
F.R.R.	FIRE RESISTANCE RATING
GALV	GALVANIZED
GL	GLASS/GLAZING
GW / GWG	GEORGIAN WIRED GLASS
GWB	GYPSPUM WALL BOARD
HC	BARRIER FREE DOOR OPERATOR PUSH BUTTON
HB	HOSE BIB
HCW	HOLLOW CORE WOOD
HM	HOLLOW METAL
HO	MAGNETIC HOLD OPEN
HTG	HEATING
I/F	INSIDE FACE
IMP	INSULATED METAL PANEL
INT	INTERIOR
INTK	INTAKE
IR/CWB	IMPACT RESISTANT GWB
JT	JOINT
LF	LIGHT FIXTURE
LIN	LINOLEUM
MAT'L	MATERIAL
MCH.	MECHANICAL
MD	METAL DECK
MFR	MANUFACTURER
MIR	MIRROR
MO	MASONRY OPENING
MS	METAL SIDING
MTL	METAL
MW	MICROWAVE
NBC	NATIONAL BUILDING CODE
NIC	NOT IN CONTRACT
Nr.	NUMBER
NRC	NATIONAL RESEARCH COUNCIL
OBC	ONTARIO BUILDING CODE
OC	ON CENTRE
O/F	OUTSIDE FACE
O.T.B.	OPEN TO BELOW
PC	PARTICLE CORE
PCT	PORCELAIN TILE
PERIM.	PERIMETER
PERF.	PERFORATED
PL	PLATE
PLAM	PLASTIC LAMINATE
PML	PERFORATED METAL
PREFIN	PREFINISHED
PREFIN / PN	PLASTER 'S'IN COAT ON GWB
PT	PAINT
PTD	PAINTED
P.T.	PRESSURE TREATED
PWF	PRESERVED WOOD FOUNDATION GRADE PLYWOOD
RAH	ROOF ACCESS HATCH
RBB	RUBBER FLOORING
REP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC.	RECESSED
REFURB	REFURBISHED
RO	ROUGH OPENING
R/O	ROUGH OPENING
RWL	RAIN WATER LEADER
SG / S.A.M.	SELF ADHERED MEMBRANE (FORMING PART OF CONTINUOUS AIR/ VAPOUR BARRIER)
SG / SGL	SANDBLASTED GLAZING
SIAM.	SIAMSE CONNECTION
S, SC	SCREEN
SCW	SOLID CORE WOOD
SMD	SMOKE DETECTOR
SFF	SPORTS FLOORING
SPL	SPANDREL PANEL/ GLASS
SS / S3TL	STAINLESS STEEL
SSG	STRUCTURAL SILICONE GLAZING SYSTEM
ST	STONE TILE
STL	STEEL
STN	STAIN
STRUCT	STRUCTURAL
SYN.	SYNTHETIC WD POLYMER LUMBER
TB	TACK BOARD
TBI	TO BE ISSUED
TCS	TINTED CONCRETE SEALER
TGL	TEMPERED GLASS
TMP	TEMPERED
TP/TEC	TECTUM PRODUCT PANELS
TWA	TRANSLUCENT WALL ASSEMBLY
TYP	TYPICAL
TEP	TEXTURED CORE PLAST
TYP	TYPICAL
U/S	UNDERSIDE OF
V	VINYL
VCT	VINYL COMPOSITION TILE
W / WIN	WINDOW
WB	WHITE BOARD
WC	WATER CLOSET
WD	WOOD
WF	WATER FOUNTAIN
WF	WOOD YENNER
ZN	ZINC

GENERAL NOTES	
1.	THE CONTRACTOR SHALL EXAMINE AND BECOME FAMILIAR WITH ALL CONTRACT DOCUMENTS IN THEIR ENTIRETY, SURVEY THE PROJECT AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND SCOPE OF WORK. ALL COSTS SUBMITTED SHALL BE BASED ON THE THOROUGH KNOWLEDGE OF ALL WORK AND MATERIALS REQUIRED.
2.	ALL CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE FEDERAL, LOCAL, AND PROVINCIAL CODES AND AMENDMENTS.
3.	THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES REQUIRED FOR SAFE EXECUTION AND COMPLETION OF WORK, AND FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. CONTRACTOR SHALL HIRE SUB CONTRACTORS AND SUPPLIERS WITH PROVEN ABILITY TO PROVIDE/PERFORM QUALITY WORKMANSHIP ON THIS TYPE OF PROJECT.
4.	ANY ERRORS, OMISSIONS OR INCONSISTENCIES ON THESE DRAWINGS OR ANY VARIATIONS OR AMBIGUITIES BETWEEN THESE DRAWINGS AND ACTUAL SITE AND CONSTRUCTION CONDITIONS AND/OR REQUIREMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING, IMMEDIATELY.
5.	IN THE EVENT A DISCREPANCY IS FOUND IN THE CONTRACT DOCUMENTS, THE OWNER AND ARCHITECT SHALL BE NOTIFIED IMMEDIATELY.
6.	ANY DISCREPANCIES BETWEEN ANY DRAWING OR SPECIFICATION ITEM, THE CONTRACTOR SHALL BID, PROVIDE AND INSTALL THE GREATER ITEM IN QUALITY, QUANTITY, STABILITY, DURABILITY, ETC.
7.	CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AT SITE AND BE RESPONSIBLE FOR ACCURACY AND CORRECTNESS OF SAME. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
8.	THE CONTRACTOR SHALL COORDINATE HIS WORK WITH ALL OTHER TRADES. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
9.	THESE DRAWINGS CONTAIN COMPLETE SPECIFICATIONS, DETAILS AND INFORMATION REQUIRED FOR THE INTERIOR FINISHES OF THE PROJECT. ADDITIONAL INFORMATION SHALL BE OBTAINED FROM THE OWNER.
10.	STORE MATERIALS IN SPACES DESIGNATED BY OWNER. REMOVE AND REPLACE ALL DAMAGED MATERIALS.
11.	REMOVE RUBBISH FROM PREMISES AS OFTEN AS NECESSARY OR AS DIRECTED TO MAINTAIN A CLEAN AND SAFE PROJECT.
12.	ALL WORK AND EQUIPMENT SHALL BE CLEANED TO THE SATISFACTION OF THE OWNER BEFORE TURNING SAME OVER TO OWNER.
13.	SHOP DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO ORDERING, FABRICATION AND INSTALLATION FOR ANY EQUIPMENT, MATERIALS, ASSEMBLIES, ECT.
14.	THE CONTRACTOR SHALL PAY ALL FEES EXCLUDING BUILDING PERMIT, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS AND OBTAIN ALL PERMITS AND CERTIFICATES OR APPROVAL REQUIRED IN CONNECTION WITH ALL WORK UNDER THESE CONTRACT DOCUMENTS. HE OR SHE SHALL COMPLY WITH ALL LAWS, ORDINANCES, RULES AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION.
15.	THERE SHALL BE NO DEVIATION FROM SPECIFICATIONS WITHOUT THE WRITTEN APPROVAL OF THE OWNER, ARCHITECT AND/OR ENGINEER.
16.	THE CONTRACTOR SHALL EMPLOY AN APPROVED TESTING LABORATORY TO MAKE ALL TEST FOR ACOUSTICAL, CONCRETE, SOIL COMPACTION, WELDING OF STEEL, SHEAR NAILING, WATERPROOF TESTING AND ROOFING TO INSURE COMPLIANCE WITH PLANS, STANDARDS AND CODES. ALSO PROVIDE WRITTEN REPORTS OF THE RESULTS TO ARCHITECT FOR REVIEW.
17.	DRYWALL INSTALLATION SHALL BE IN CONFORMANCE WITH THE GYPSUM ASSOCIATION'S RECOMMENDED PRACTICES FOR THICKNESS, NAILING, TAPING AND CORRECT STUD SPACING.
19.	THE CONTRACTOR SHALL VERIFY THE SIZE, LOCATION, OPENINGS AND CHARACTERISTICS OF ALL WORK AND EQUIPMENT TO BE FURNISHED BY THE OWNER OR OTHERS WITH THE MANUFACTURER OR SUPPLIER BEFORE STARTING ANY CONSTRUCTION RELATED TO SAID WORK AND/OR EQUIPMENT.
20.	ALL MATERIALS AND EQUIPMENT SHALL BE NEW, MEET U.L.C. REQUIREMENTS, HAVE U.L.C. SEAL OF APPROVAL AND OF DOMESTIC MANUFACTURE AND SHALL BE INSTALLED IN STRICT CONFORMANCE WITH MANUFACTURER'S INSTRUCTIONS AND/OR RECOMMENDATIONS UNLESS INDICATED OTHERWISE IN THE DRAWINGS AND SPECIFICATIONS.
21.	LOCATION OF MECHANICAL UNITS ARE APPROXIMATE. INSTALL PER MANUFACTURER'S REQUIREMENTS.
22.	REFER TO E-01 OF MEP DRAWING FOR LOCATION OF ELECTRICAL AND GAS METERS, TELEPHONE AND CABLE CLOSETS.
23.	THE CONTRACTOR SHALL VERIFY WITH ARCHITECT FOR ANY CHASE AREA NOT SHOWN ON DRAWINGS. ALL SHOP DRAWINGS TO BE SUBMITTED FOR APPROVAL PRIOR TO ORDERING ANY EQUIPMENT.
24.	THE CONTRACTORS SHALL BEAR THE TOTAL EXPENSE FOR AND SHALL REPAIR TO EXISTING CONDITION, ANY DAMAGE TO EXISTING UNDERGROUND UTILITIES, PIPING, CONDUIT OR EQUIPMENT.
25.	SPECIFIED PRODUCTS HAVE BEEN USED IN PREPARING THE CONTRACT DOCUMENTS TO ESTABLISH MINIMUM QUALITIES. IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE SUBSTITUTIONS THAT ARE EQUAL TO THE SPECIFIED PRODUCTS. ADEQUATE SUPPORTING INFORMATION MUST ACCOMPANY ALL SUBSTATION SUBMITTALS AND MUST BE SUBMITTED TO THE ARCHITECT WITHIN 30 DAYS AFTER CONTRACT AWARD TO RECEIVE CONSIDERATION AND ON THE ARCHITECT'S SUBSTITUTION FORM.
26.	EXIT CORRIDORS TO HAVE A MINIMUM RATED 2A-100-C FIRE EXTINGUISHER WITHIN A 75-FOOT TRAVEL DISTANCE AND MOUNTED ON THE WALL OR IN CABINETS SUCH THAT THE TOP IS NOT MORE THAN 4-FEET ABOVE FLOOR LEVEL.
27.	THE CONTRACTOR MUST PROVIDE ALL REQUIRED RATINGS FOR FIRE-RESISTIVE TENANT SEPARATION WALLS, FLOOR/CEILING ASSEMBLIES, IN ACCORDANCE WITH THE LATEST EDITION OF THE GOVERNING CODE AND LOCAL CODES.
28.	THE CONTRACTOR SHALL VERIFY ALL ROUGH OPENINGS.
29.	THE BOTTOM 250mm OF ALL DOORS EXCEPT SLIDING DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
30.	EVERY EXIT WAY OR CHANGE OF DIRECTION IN A EXIT CORRIDOR SHALL BE MARKED WITH WELL-LIGHTED EXIT SIGNS HAVING LETTERS OF AT LEAST 125mm IN HEIGHT.
31.	SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SUCH AS SPRINKLER SYSTEM, PRE-FIN, METAL GUARDS, ALUM. ECT. SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION THAT THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL. REFER TO IBC SECTION 106.3.4.2 OR LOCAL CODE SECTIONS.
32.	THE TOTAL SQUARE FOOTAGE FIGURES MAY VARY DEPENDING ON THE FORMULA USED BY THE ARCHITECT. THE ARCHITECT SHALL PROVIDE GROSS SQUARE FOOTAGES FOR BUILDING DEPARTMENT PURPOSES.

NAME OF PRACTICE:		ONTARIO BUILDING CODE	
Jason Fung Architect INC. 675 King Street W., Unit 211 Toronto, ON M5V 1M9 Contact: Project Architect/Lead		DATA MATRIX PART 11: RENOVATION OF EXISTING BUILDING	
NAME OF PROJECT: DUNDAS VALLEY SECONDARY SCHOOL UNIVERSAL WASHROOM RENOVATION		BUILDING CODE REFERENCE	
LOCATION: 310 GOVERNORS RD, DUNDAS, ONTARIO			
ITEM			
11.1	Building Classification	Describe Existing Use: GROUP A2 Describe Change of Use (if applicable): GROUP A2 Construction Index: x Hazard Index: x ■ Not Applicable (no change of major occupancy)	11.2.1. T 11.2.1.1A T 11.2.1.1B to N
11.2	Alteration to Existing Building is:	<input type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1. 11.3.3.2.
11.3	Reduction in Performance Level:	Structural: By Increase in occupant load: ■ No <input type="checkbox"/> Yes By change of major occupancy: ■ No <input type="checkbox"/> Yes Plumbing: ■ No <input type="checkbox"/> Yes Sewage-system: ■ No <input type="checkbox"/> Yes	11.4.2. 11.4.2.1. 11.4.2.2. 11.4.2.3. 11.4.2.4. 11.4.2.5.
11.4	Compensating Construction:	Structural: By Increase in occupant load: ■ No <input type="checkbox"/> Yes (explain) By change of major occupancy: ■ No <input type="checkbox"/> Yes (explain) Plumbing: ■ No <input type="checkbox"/> Yes (explain) Sewage-system: ■ No <input type="checkbox"/> Yes (explain)	11.4.3. 11.4.3.2. 11.4.2.3. 11.4.2.4. 11.4.2.5. 11.4.2.6.
11.5	Compliance Alternatives Proposed:	■ No <input type="checkbox"/> Yes (give number(s))	11.5.1.
Notes			



DUNDAS VALLEY SECONDARY SCHOOL UNIVERSAL WASHROOM RENOVATION

DRAWING LIST


ARCHITECTURAL

A1.01	PROPOSED KEY PLAN, SCHEDULES, AND ASSEMBLIES
A2.01	DEMOLITION PARTIAL PLAN AND RCP
A2.02	DEMOLITION INTERIOR ELEVATIONS
A3.01	PROPOSED GROUND FLOOR PLAN
A3.02	PROPOSED INTERIOR ELEVATIONS

ISSUED FOR TENDER

2026 APRIL 10

GENERAL PLAN DRAWING LEGEND:	
ROOM NAME	ROOM TAG
101	ROOM TAG
+0.00	SPOT ELEVATION
Name + Elevation	LEVEL
D101	DOOR TYPE
WINDO	WINDOW TYPE
WI	WALL TYPE
IFB	WALL FIRE RATING
RI	ROOF TYPE
FI	FLOOR TYPE
GB-I 8'-0"	CEILING TYPE
FXI	FIXTURE / FINISH TAG
△	REVISION TO DRAWING
SH A101	DETAIL CALLOUT TAG
A101	ELEVATION TAG
SH A101	SECTION TAG
A101	INTERIOR ELEVATION TAG
A101	View Name Scale: 1/8" = 1'-0"
0	GRID REFERENCE



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jason@jasonfung.ca
www.jasonfung.ca

Project
**DUNDAS VALLEY SECONDARY SCHOOL
UNIVERSAL WASHROOM RENOVATION**

Address 310 GOVERNORS RD, DUNDAS, ONTARIO

Client	HWDSB
Project no.	2527
Scale	As indicated
Drawn By	RP
Print Date	26/04/10

Drawing Title
COVER

Sheet no.
A0.01

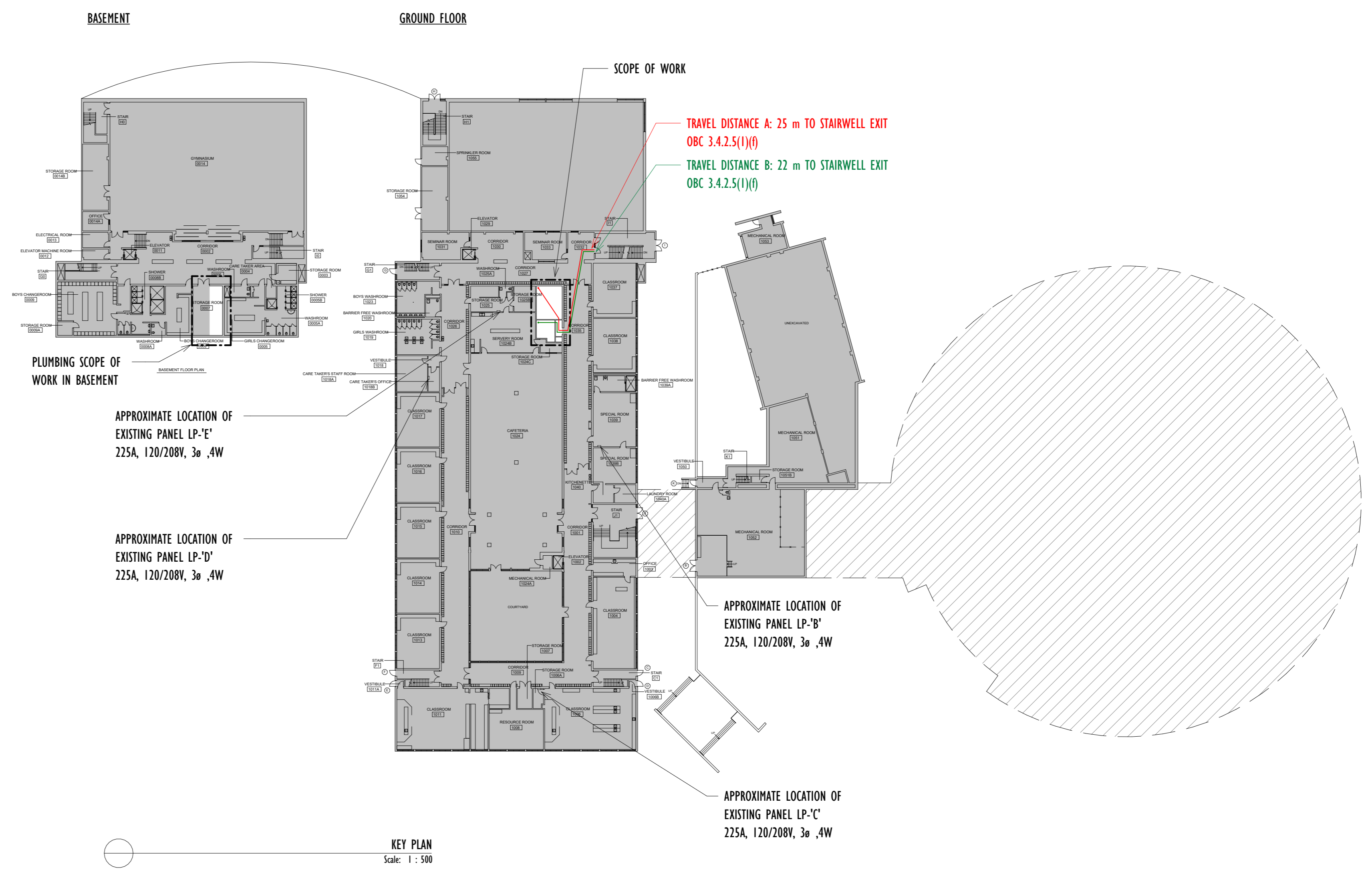
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FIXTURE SCHEDULE				
TAG	DESCRIPTION	MANUFACTURER **	MODEL	NOTES **
FX1	DROP-IN SINK	KOHLER	CIMBARON 22-3/4" RECTANGLE DROP-IN	REFER TO MECHANICAL
FX2	FAUCET	DELTA	591102P0	TOUCHLESS, ELECTRONIC AC SURFACE MOUNT FAUCET,
FX3	FLOOR MOUNT WATER CLOSET	AMERICAN STANDARD	MADERA FLOWWISE ELONGATED TOILET	REFER TO MECHANICAL
FX4	HORIZONTAL GRAB BAR	FROST	1003-NP	30" X 30" STAINLESS STEEL
FX5	L-SHAPED GRAB BAR	FROST	1001-NP	18" STAINLESS STEEL
FX6	TOILET PAPER DISPENSER	BY OWNER	-	
FX7	SANITARY NAPKIN DISPOSAL	BOBRICK	B-5270	
FX8	SAFETY COAT HOOK	FROST	1150-SS	STAINLESS STEEL SAFETY COAT HOOK
FX9	ORC COMPLIANT TILTED MIRROR	BOBRICK	B-293	24" X 36"
FX10	SOAP DISPENSER	BY OWNER	-	
FX11	COMBO PAPER TOWEL DISPENSER / GARBAGE	BY OWNER	-	
FX12	4" ROUND AUTOMATIC DOOR OPERATOR PUSH PLATE	-	-	COORDINATE WITH ELECTRICAL
FX13	EMERGENCY CALL BUTTON	-	-	COORDINATE WITH ELECTRICAL
FX14	PUSH TO LOCK BUTTON	-	-	COORDINATE WITH ELECTRICAL

* OR APPROVED ALTERNATIVE
** REFER TO SPECIFICATIONS

ROOM SCHEDULE									
NO.	ROOM	FLOOR		CEILING		WALL		BASE FINISH	NOTES
		MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH		
1036A	HALLWAY	CONC.	YCT	CONC & STEEL	ACT	CHU / GB	PT-2	RESILIENT BASEBOARD - MATCH EXISTING	
1036B	UNIVERSAL WASHROOM	CONC.	EPFF	CONC & STEEL	ACT	CHU / GB	PT-1, PCT-1, PCT-2	PORCELAIN WALL BASE	
1036C	STORAGE	CONC.	YCT	CONC & STEEL	ACT	CHU / GB	PT-2	RESILIENT BASEBOARD - MATCH EXISTING	
1036D	JANITOR CLOSET	CONC.	YCT	CONC & STEEL	ACT	CHU / GB	PT-2	RESILIENT BASEBOARD - MATCH EXISTING	

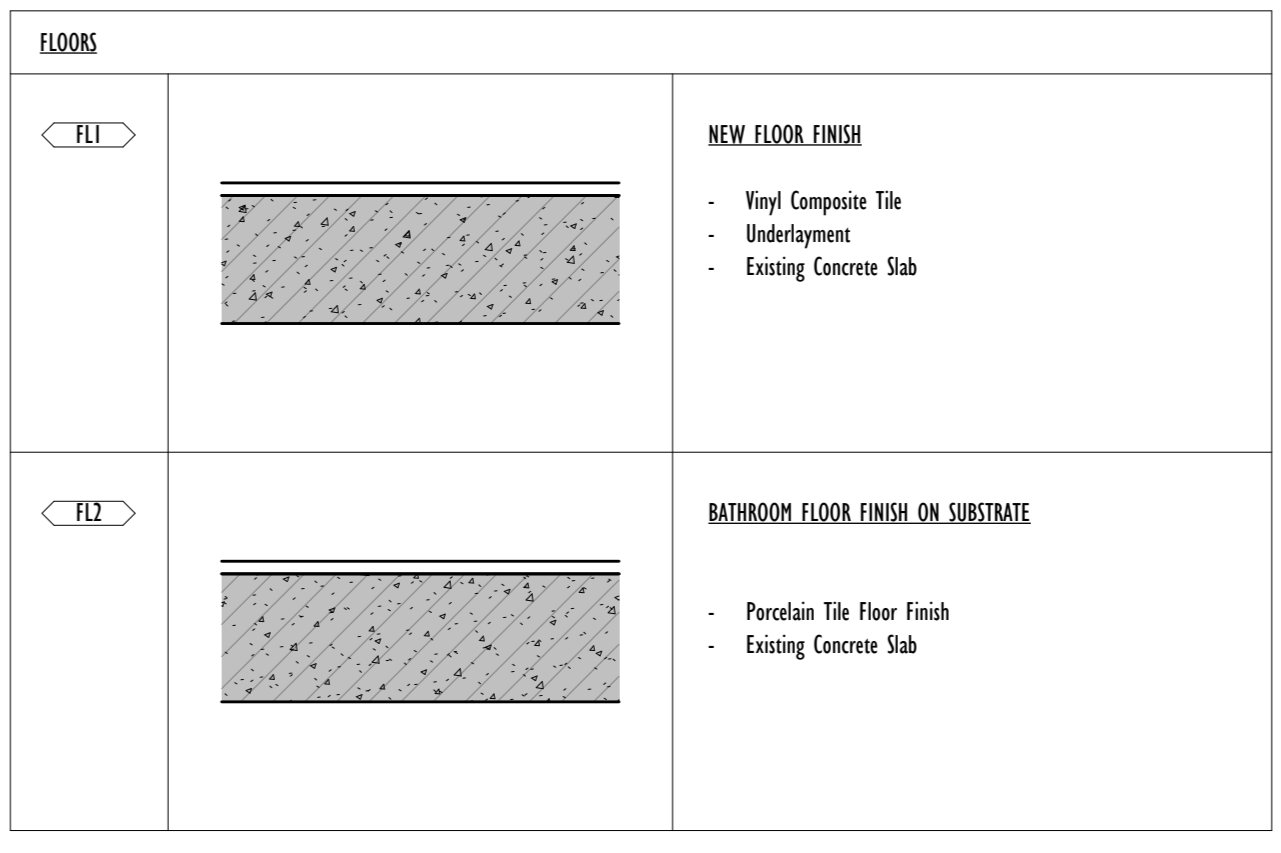
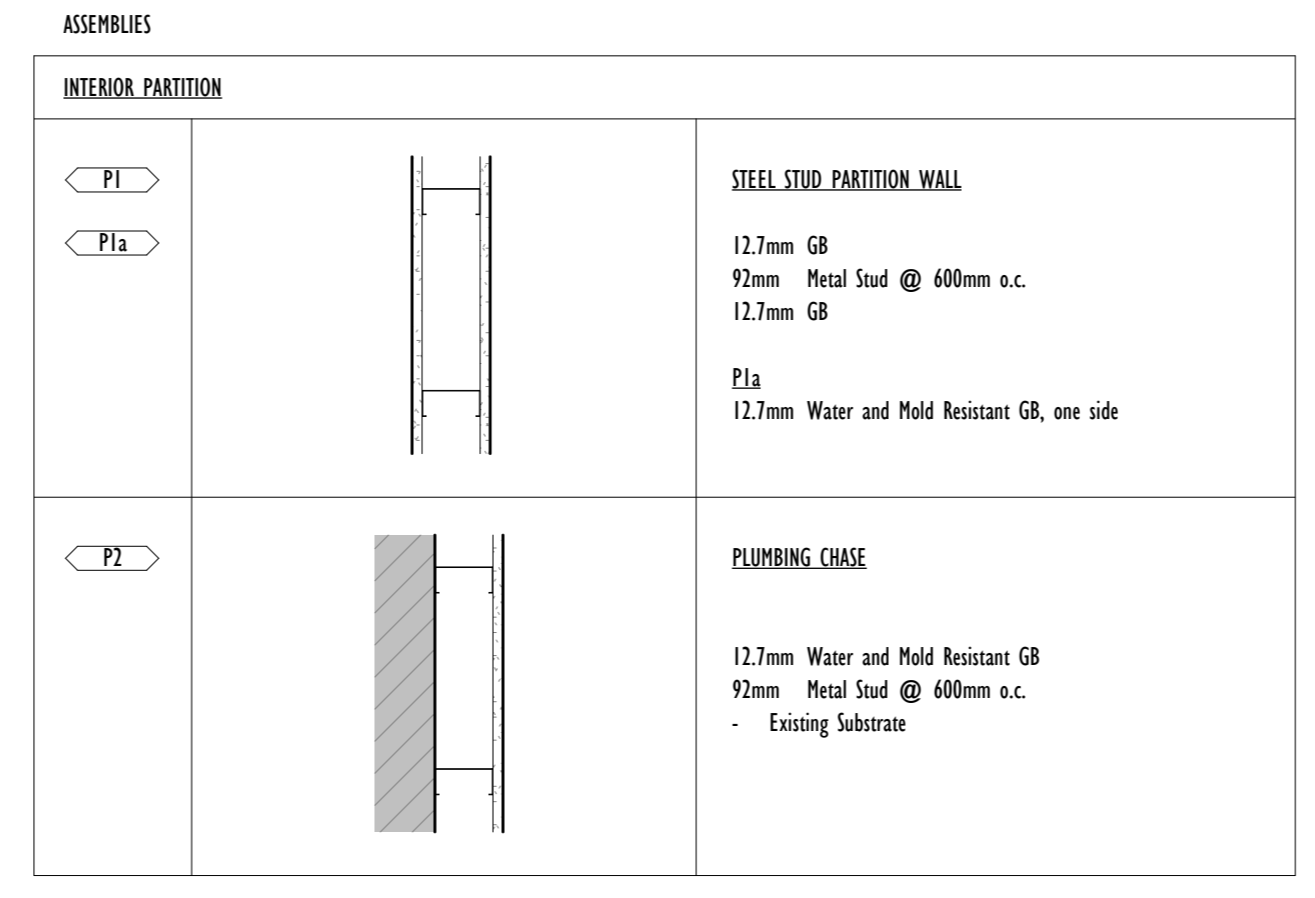
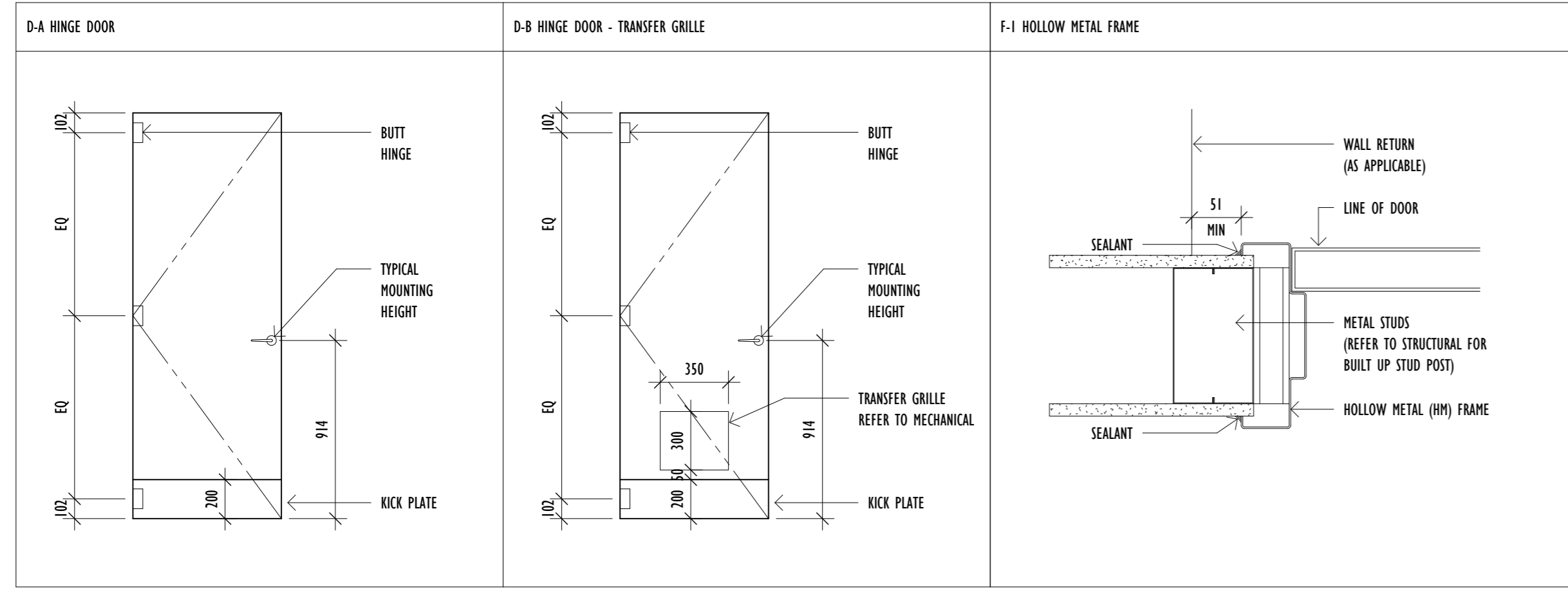
FINISH & MATERIAL SCHEDULE		
<p>PT-1 UNIVERSAL WASHROOM PAINT MANUFACTURER: AS PERMITTED IN MPI APPROVED PRODUCTS LIST SERIES: AS PERMITTED IN MPI APPROVED PRODUCTS LIST COLOUR/FINISH: MATCH PORCELAIN TILE (PCT-2) - ACTUAL COLOUR CODE TBD</p> <p>PT-2 WHITE PAINT MANUFACTURER: AS PERMITTED IN MPI APPROVED PRODUCTS LIST SERIES: AS PERMITTED IN MPI APPROVED PRODUCTS LIST COLOUR/FINISH: WHITE - ACTUAL COLOUR CODE TBD</p> <p>PROVIDE PAINT MATERIALS FOR PAINT SYSTEMS FROM SINGLE MANUFACTURER ACCEPTABLE MANUFACTURERS (OR APPROVED ALTERNATIVE) 1 BENJAMIN MOORE 2 SHERWIN WILLIAMS 3 DULUX</p>	<p>PCT-1 PORCELAIN TILE 1 - WALL TILE MANUFACTURER: OLYMPIA TILE OR EQUIVALENT SERIES: COLOUR AND DIMENSION SIZE: COLOUR: COLOUR TBD GROUT: COLOUR TBD (MATCH PCT-2)</p> <p>PCT-2 PORCELAIN TILE 2 - WALL ACCENT TILE MANUFACTURER: OLYMPIA TILE OR EQUIVALENT SERIES: COLOUR AND DIMENSIONS SIZE: COLOUR: COLOUR TBD GROUT: WHITE</p> <p>PORCELAIN WALL BASE MANUFACTURER: STONE TILE OR EQUIVALENT SERIES: MATCH FLOOR TILE COLOUR: MATCH FLOOR TILE GROUT: MATCH FLOOR TILE</p> <p>RESILIENT BASEBOARD MANUFACTURER: JOHNSONITE OR EQUIVALENT SERIES: TRADITIONAL VINYL W/ TOE SIZE: 4" COLOUR: BLACK</p>	<p>PCTF PORCELAIN TILE FLOOR FINISH MANUFACTURER: STONE TILE OR EQUIVALENT SERIES: MOONSTONE SIZE: LIGHT GREY COLOUR: COLOUR TBD GROUT: COLOUR TBD</p> <p>VCT VINYL COMPOSITE TILE MANUFACTURER: ARMSTRONG FLOORING OR EQUIVALENT SERIES: STANDARD EXCELON IMPERIAL TEXTURE SIZE: MATCH EXISTING SCHOOL FLOORING COLOUR: MATCH EXISTING SCHOOL FLOORING</p>



DOOR SCHEDULE														
NO.	FIRE RATING	ROOM	DOOR						FRAME			HARDWARE GROUP	NOTES	
			WIDTH	HEIGHT	THICKNESS	PANEL MATERIAL	PANEL FINISH	DOOR TYPE	FRAME MATERIAL	FRAME FINISH	FRAME TYPE			
D1036B		PROPOSED UNIVERSAL WASHROOM	965	2134	44	HM	PT	D-A	HM	PT	F-1	N-4		
D1036C		PROPOSED STORAGE	965	2134	44	HM	PT	D-B	HM	PT	F-1	N-2		
D1036D		PROPOSED JANITOR CLOSET	762	2134	44	HM	PT	D-A	HM	PT	F-1	N-2		

N-1 indicates requirement for privacy lockset
N-2 indicates requirement for keyed lockset
N-3 indicates requirement for weatherstripping
N-4 indicates requirements for universal bathroom lockset with door operator and emergency call system as per OBC

General Note:
Hinge side of door shall be offset 4" from corners unless otherwise noted.



DATE	ISSUED FOR COORDINATION
DATE	ISSUED FOR PERMIT
DATE	ISSUED FOR PLUMB RESPONSE
DATE	ISSUED FOR TENDER
DATE	ISSUED FOR

Architect's Stamp

Project	DUNDAS VALLEY SECONDARY SCHOOL UNIVERSAL WASHROOM RENOVATION
Address	310 GOVERNORS RD, DUNDAS, ONTARIO
Client	HWDSB
Project no.	2527
Scale	As indicated
Drawn By	KP
Print Date	26/04/10

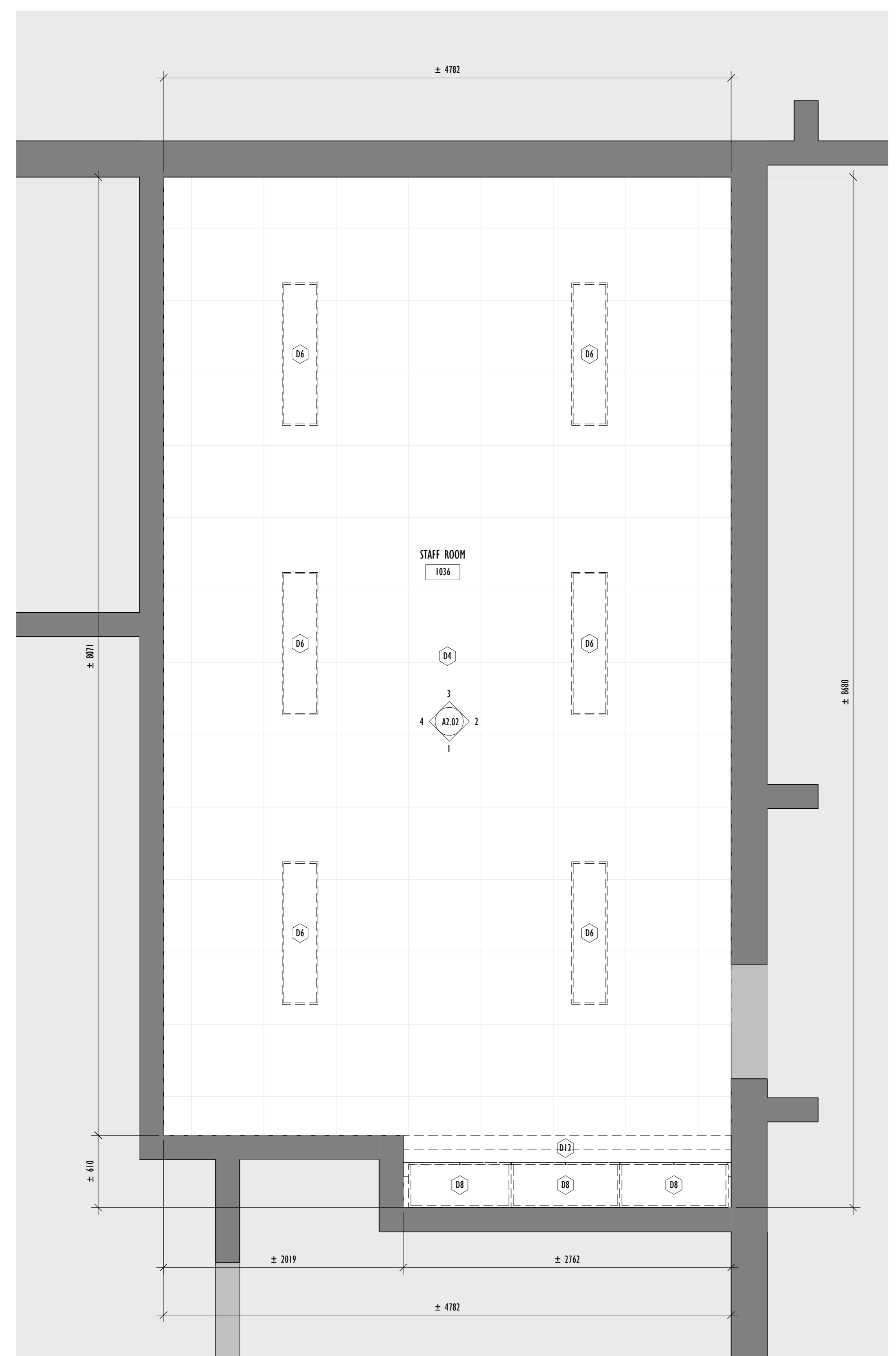
PROPOSED KEY PLAN, SCHEDULES, AND ASSEMBLIES

Sheet no. **A1.01**

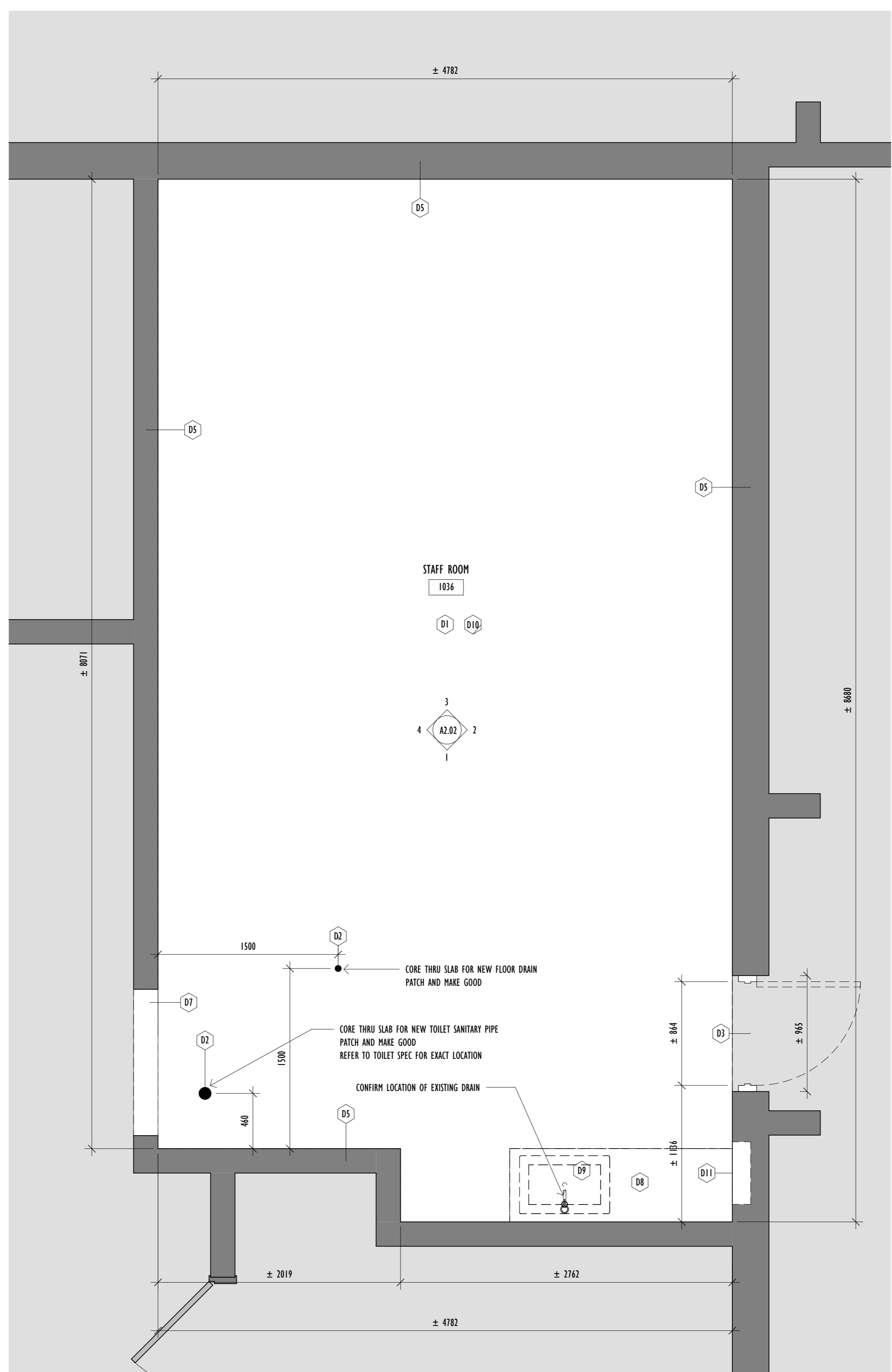
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HATCH LEGEND:

	EXISTING WALL
	EXISTING AREA
	DEMOLISHED
	PROPOSED



DEMOLITION PARTIAL RCP
Scale: 1 : 25



DEMOLITION PARTIAL FLOOR PLAN
Scale: 1 : 25

- GENERAL NOTES**
- ALL DIMENSIONS FOR EXISTING BUILDING ELEMENTS ARE APPROXIMATE. CONTRACTOR TO SITE VERIFY PRIOR TO DEMOLITION OR CONSTRUCTION
 - ANY PENETRATIONS THROUGH FIRE SEPARATIONS MUST BE FIRE SEALED.
 - LOCATION OF ALL EXISTING PLUMBING STACKS AND LINES, HVAC DUCTS, AND ELECTRICAL TO BE CONFIRMED ON SITE AND COMMUNICATED TO SCHOOL BOARD AND ARCHITECT
 - CONTRACTOR TO REVIEW CONFLICTS BETWEEN TRADES
 - CONTRACTOR TO NOTIFY ARCHITECT OF ANY SITE DISCREPANCIES

- GENERAL DEMOLITION NOTES**
- REFER TO ABATEMENT REPORT AND SPECS REGARDING DESIGNATED SUBSTANCES REMOVAL
 - ARCHITECTURAL DEMOLITION DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECH, AND ELEC DEMOLITION DRAWINGS
 - CONTRACTOR TO PATCH, REPAIR, AND MAKE GOOD ALL HOLES OR DAMAGE DUE TO GENERAL DEMOLITION

- DEMOLITION NOTES:**
- D1** REMOVE AND DISPOSE OF EXISTING FLOOR TILE. PATCH AND MAKE GOOD AS REQUIRED TO RECEIVE NEW FLOOR FINISH. REFER TO ENVIRONMENTAL REPORT AND COORDINATE WITH ABATEMENT SUBTRADE.
 - D2** CORE THROUGH EXISTING CONCRETE SLAB FOR NEW PLUMBING. COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATION OF NEW SANITARY PIPES.
 - REMOVE AND DISPOSE OF EXISTING DOOR AND ASSOCIATED HARDWARE. PATCH AND MAKE GOOD ALL AFFECTED SURFACES. SAW CUT EXISTING BLOCK EDGE AND PREPARE TO RECEIVE NEW CLEAN-EDGED INFILL
 - D3** REMOVE AND DISPOSE OF EXISTING ACoustic CEILING TILE.
 - D4** REMOVE AND DISPOSE OF EXISTING WALL FINISH AND BASEBOARD. PROTECT AND MAINTAIN ANY FIXTURES AND OUTLETS UNLESS NOTED OTHERWISE. PATCH AND MAKE GOOD TO RECEIVE NEW FINISH AND/OR FIXTURES.
 - D5** REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURES AND ASSOCIATED DEVICES. RELOCATE AS PER PROPOSED RCP ON A2.01. COORDINATE WITH MECHANICAL DRAWINGS.
 - D6** REMOVE AND DISPOSE OF EXISTING SHUTTER TO KITCHEN BEYOND. INFILL WITH BLOCK TO MATCH EXISTING WALL.
 - D7** REMOVE AND DISPOSE OF MILLWORK. PATCH WALLS AND MAKE GOOD TO RECEIVE NEW WALL FINISH AND/OR FIXTURES.
 - D8** REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES, DRAINS, AND PIPING. COORDINATE WITH MECHANICAL DRAWINGS.
 - D9** REMOVE EXISTING SCHOOL FIXTURES, FURNITURES, AND EQUIPMENTS. COORDINATE WITH SCHOOL ON WHICH ITEMS WILL BE STORED IN A SEPARATE AREA.
 - D10** REMOVE AND PROTECT EXISTING PA SPEAKER. STORE IN GOOD CONDITION. INFILL WITH CONCRETE BLOCK TO MATCH EXISTING WALL. COORDINATE WITH SCHOOL ON RELOCATION.
 - D11** REMOVE AND DISPOSE OF EXISTING BULKHEAD. INVESTIGATE FOR DUCTS, PIPES, OR OTHER SERVICES. PROTECT DURING CONSTRUCTION.
 - D12**

DATE	ISSUED FOR CONSTRUCTION
DATE	ISSUED FOR PERMIT
DATE	ISSUED FOR TENDER
DATE	ISSUED FOR

Architect's Stamp

Project: **DUNDAS VALLEY SECONDARY SCHOOL UNIVERSAL WASHROOM RENOVATION**

Address: 310 GOVERNORS RD, DUNDAS, ONTARIO

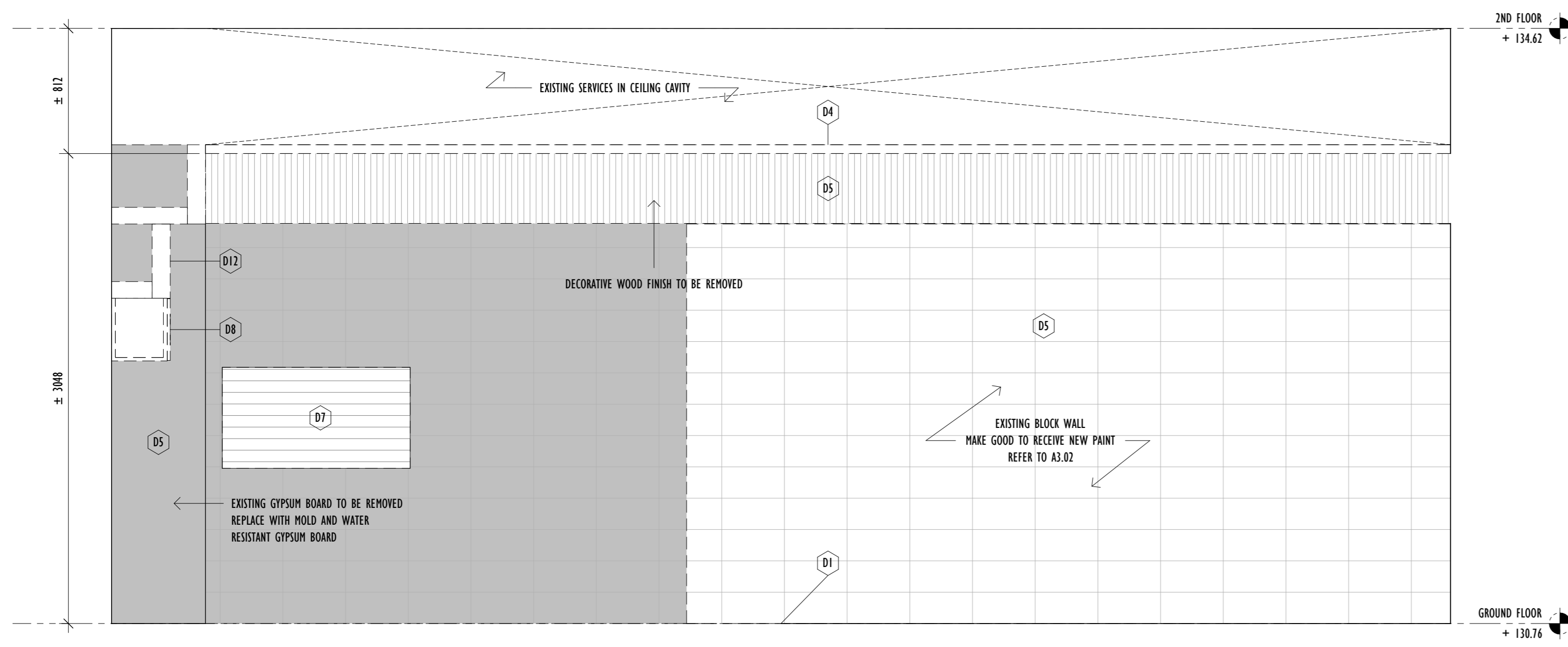
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Project no.	2527
Scale	As indicated
Drawn By	KP
Print Date	26/04/10

Drawing Title

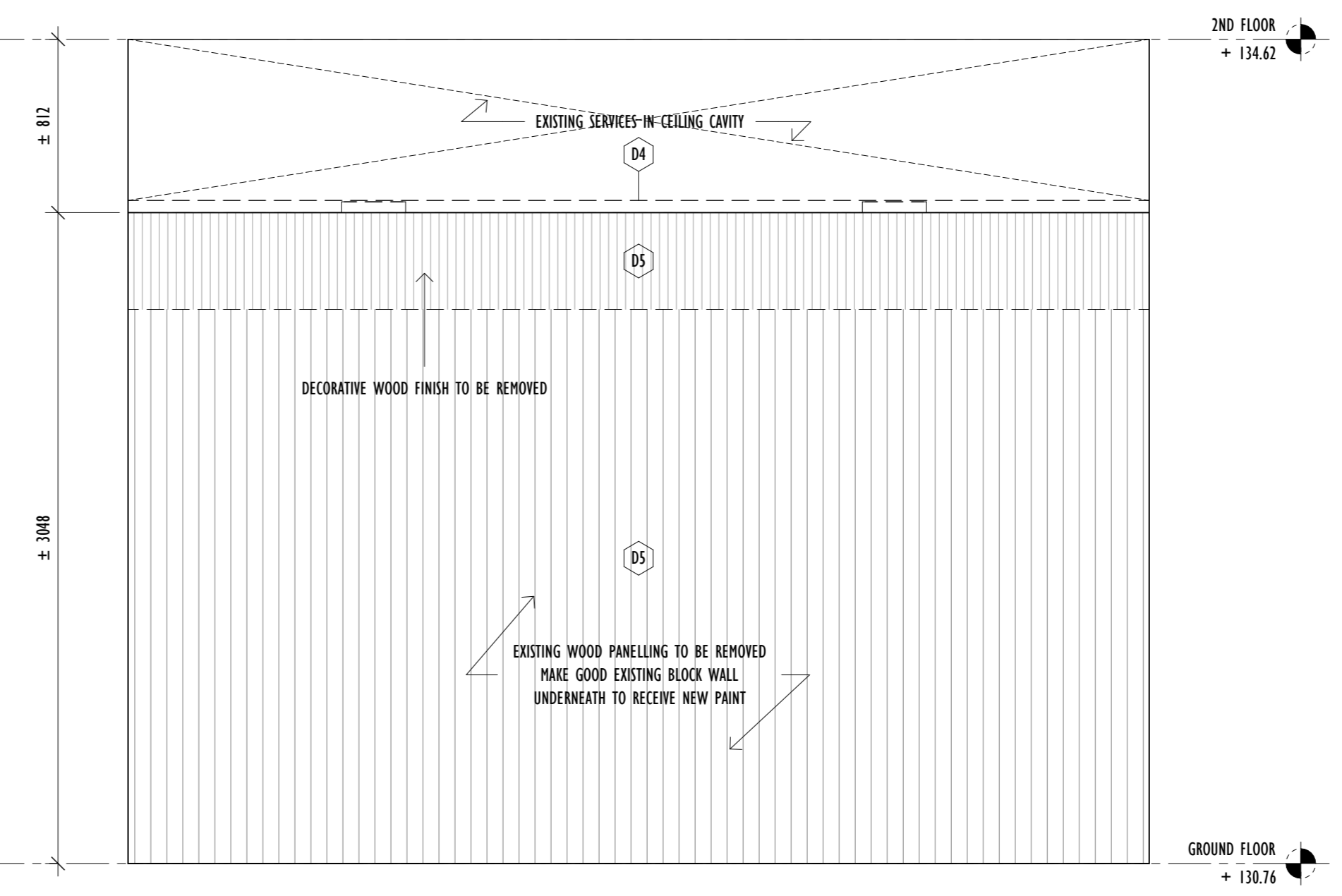
DEMOLITION PARTIAL PLAN AND RCP

Sheet no. **A2.01**

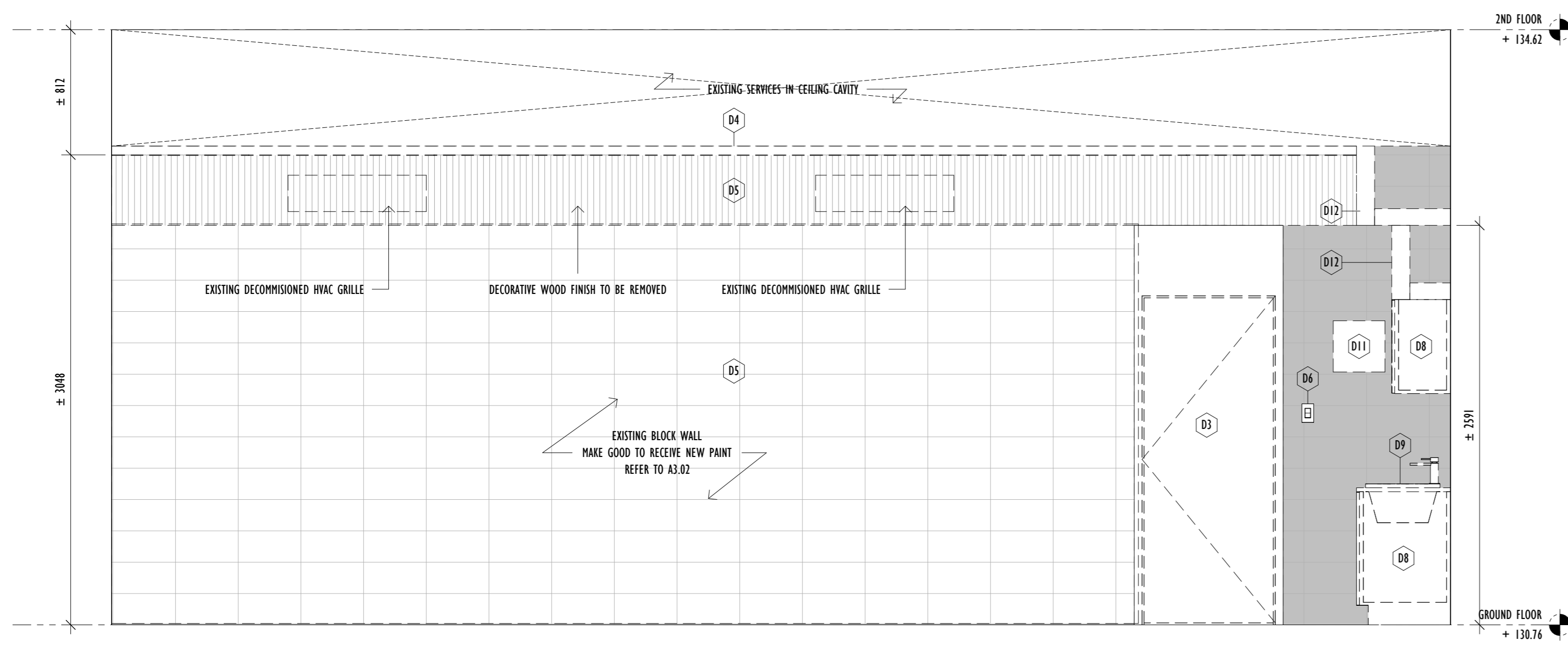
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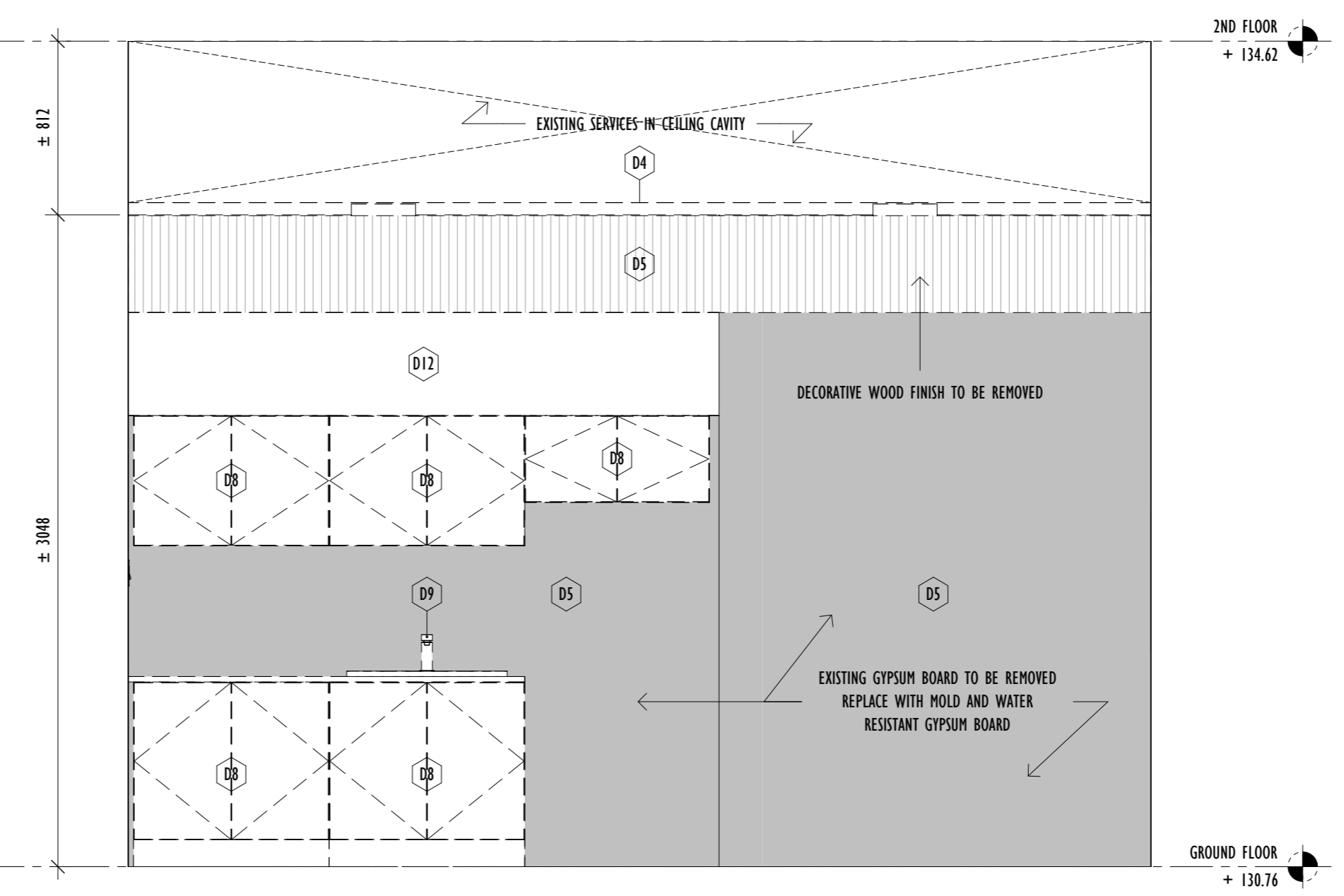
4
A2.02
DEMOLITION INTERIOR ELEVATION D
Scale: 1 : 25



3
A2.02
DEMOLITION INTERIOR ELEVATION C
Scale: 1 : 25



2
A2.02
DEMOLITION INTERIOR ELEVATION B
Scale: 1 : 25



1
A2.02
DEMOLITION INTERIOR ELEVATION A
Scale: 1 : 25

GENERAL NOTES

1. ALL DIMENSIONS FOR EXISTING BUILDING ELEMENTS ARE APPROXIMATE. CONTRACTOR TO SITE VERIFY PRIOR TO DEMOLITION OR CONSTRUCTION
2. ANY PENETRATIONS THROUGH FIRE SEPARATIONS MUST BE FIRE SEALED.
3. LOCATION OF ALL EXISTING PLUMBING STACKS AND LINES, HVAC DUCTS, AND ELECTRICAL TO BE CONFIRMED ON SITE AND COMMUNICATED TO SCHOOL BOARD AND ARCHITECT
4. CONTRACTOR TO REVIEW CONFLICTS BETWEEN TRADES
5. CONTRACTOR TO NOTIFY ARCHITECT OF ANY SITE DISCREPANCIES

GENERAL DEMOLITION NOTES

1. REFER TO ABATEMENT REPORT AND SPECS REGARDING DESIGNATED SUBSTANCES REMOVAL
2. ARCHITECTURAL DEMOLITION DRAWINGS TO BE READ IN CONJUNCTION WITH STRUCTURAL, MECH, AND ELEC DEMOLITION DRAWINGS
3. CONTRACTOR TO PATCH, REPAIR, AND MAKE GOOD ALL HOLES OR DAMAGE DUE TO GENERAL DEMOLITION

DEMOLITION NOTES:

- D1 REMOVE AND DISPOSE OF EXISTING FLOOR TILE. PATCH AND MAKE GOOD AS REQUIRED TO RECEIVE NEW FLOOR FINISH. REFER TO ENVIRONMENTAL REPORT AND COORDINATE WITH ABATEMENT SUBTRADE.
- D2 CORE THROUGH EXISTING CONCRETE SLAB FOR NEW PLUMBING. COORDINATE WITH MECHANICAL DRAWINGS FOR LOCATION OF NEW SANITARY PIPES.
- D3 REMOVE AND DISPOSE OF EXISTING DOOR AND ASSOCIATED HARDWARE. PATCH AND MAKE GOOD ALL AFFECTED SURFACES. SAW CUT EXISTING BLOCK EDGE AND PREPARE TO RECEIVE NEW CLEAN-EDGED INFILL
- D4 REMOVE AND DISPOSE OF EXISTING ACOUSTIC CEILING TILE.
- D5 REMOVE AND DISPOSE OF EXISTING WALL FINISH AND BASEBOARD. PROTECT AND MAINTAIN ANY FIXTURES AND OUTLETS UNLESS NOTED OTHERWISE. PATCH AND MAKE GOOD TO RECEIVE NEW FINISH AND/OR FIXTURES.
- D6 REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURES AND ASSOCIATED DEVICES. RELOCATE AS PER PROPOSED RCP ON A3.01. COORDINATE WITH MECHANICAL DRAWINGS.
- D7 REMOVE AND DISPOSE OF EXISTING SHUTTER TO KITCHEN BEYOND. INFILL WITH BLOCK TO MATCH EXISTING WALL.
- D8 REMOVE AND DISPOSE OF MILLWORK. PATCH WALLS AND MAKE GOOD TO RECEIVE NEW WALL FINISH AND/OR FIXTURES.
- D9 REMOVE AND DISPOSE OF EXISTING PLUMBING FIXTURES, DRAINS, AND PIPING. COORDINATE WITH MECHANICAL DRAWINGS.
- D10 REMOVE EXISTING SCHOOL FIXTURES, FURNITURES, AND EQUIPMENTS. COORDINATE WITH SCHOOL ON WHICH ITEMS WILL BE STORED IN A SEPARATE AREA.
- D11 REMOVE AND PROTECT EXISTING PA SPEAKER. STORE IN GOOD CONDITION. INFILL WITH CONCRETE BLOCK TO MATCH EXISTING WALL. COORDINATE WITH SCHOOL ON RELOCATION.
- D12 REMOVE AND DISPOSE OF EXISTING BULKHEAD. INVESTIGATE FOR DUCTS, PIPES, OR OTHER SERVICES. PROTECT DURING CONSTRUCTION.

DATE	ISSUED FOR
26/02/20	ISSUED FOR COORDINATION
26/02/20	ISSUED FOR PERMIT
26/02/20	ISSUED FOR TENDER
DATE	ISSUED FOR

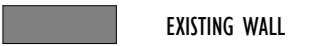
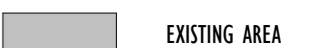


Architect's Stamp

Project	DUNDAS VALLEY SECONDARY SCHOOL UNIVERSAL WASHROOM RENOVATION
Address	310 GOVERNORS RD, DUNDAS, ONTARIO
Client	HWDSB
Project no.	2527
Scale	As indicated
Drawn By	RP
Project North	Print Date 26/04/20
Drawing Title	DEMOLITION INTERIOR ELEVATIONS





















Sheet no. **A2.02**








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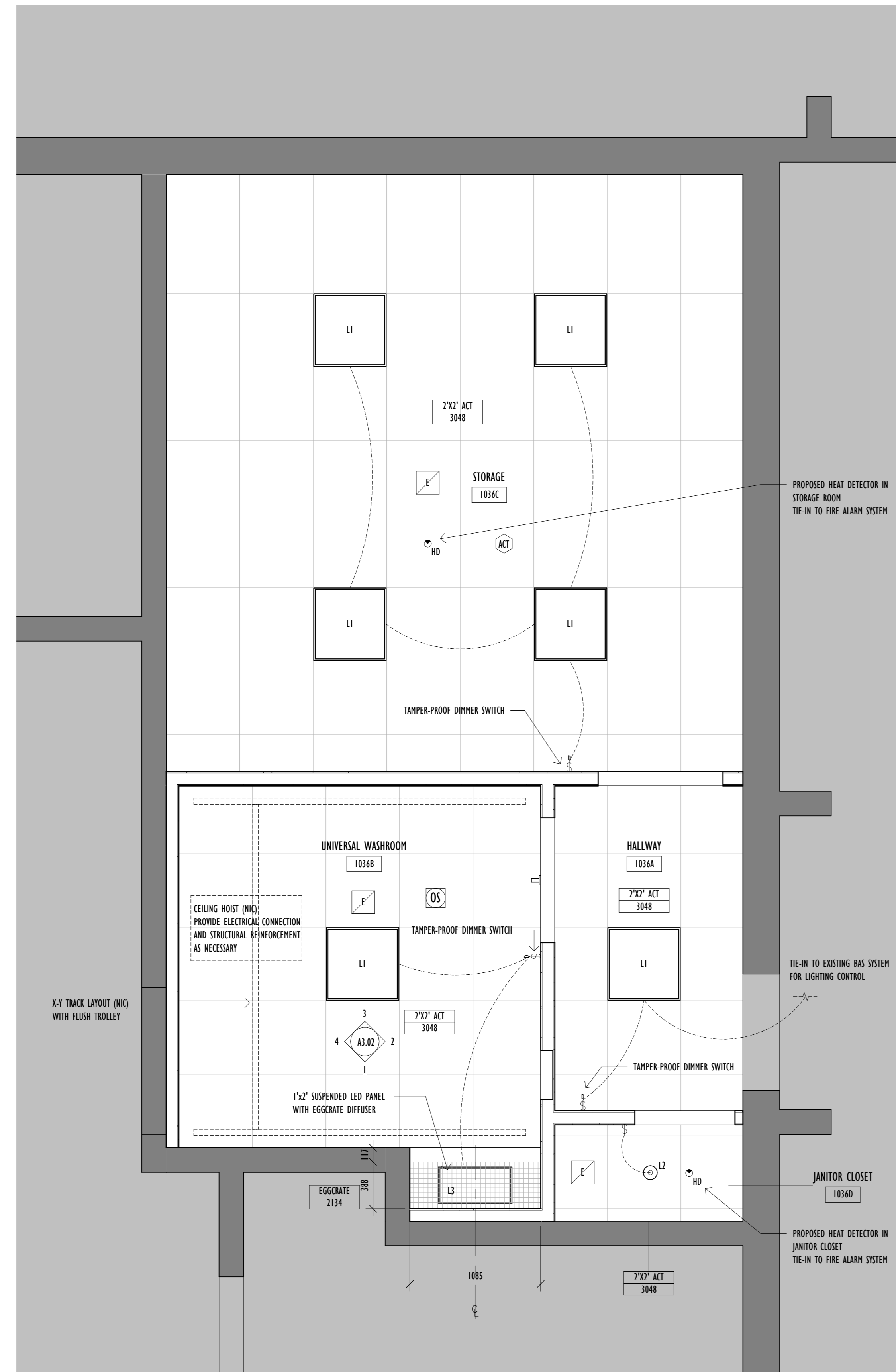
HATCH LEGEND:

-  EXISTING WALL
-  EXISTING AREA
-  DEMOLISHED
-  PROPOSED

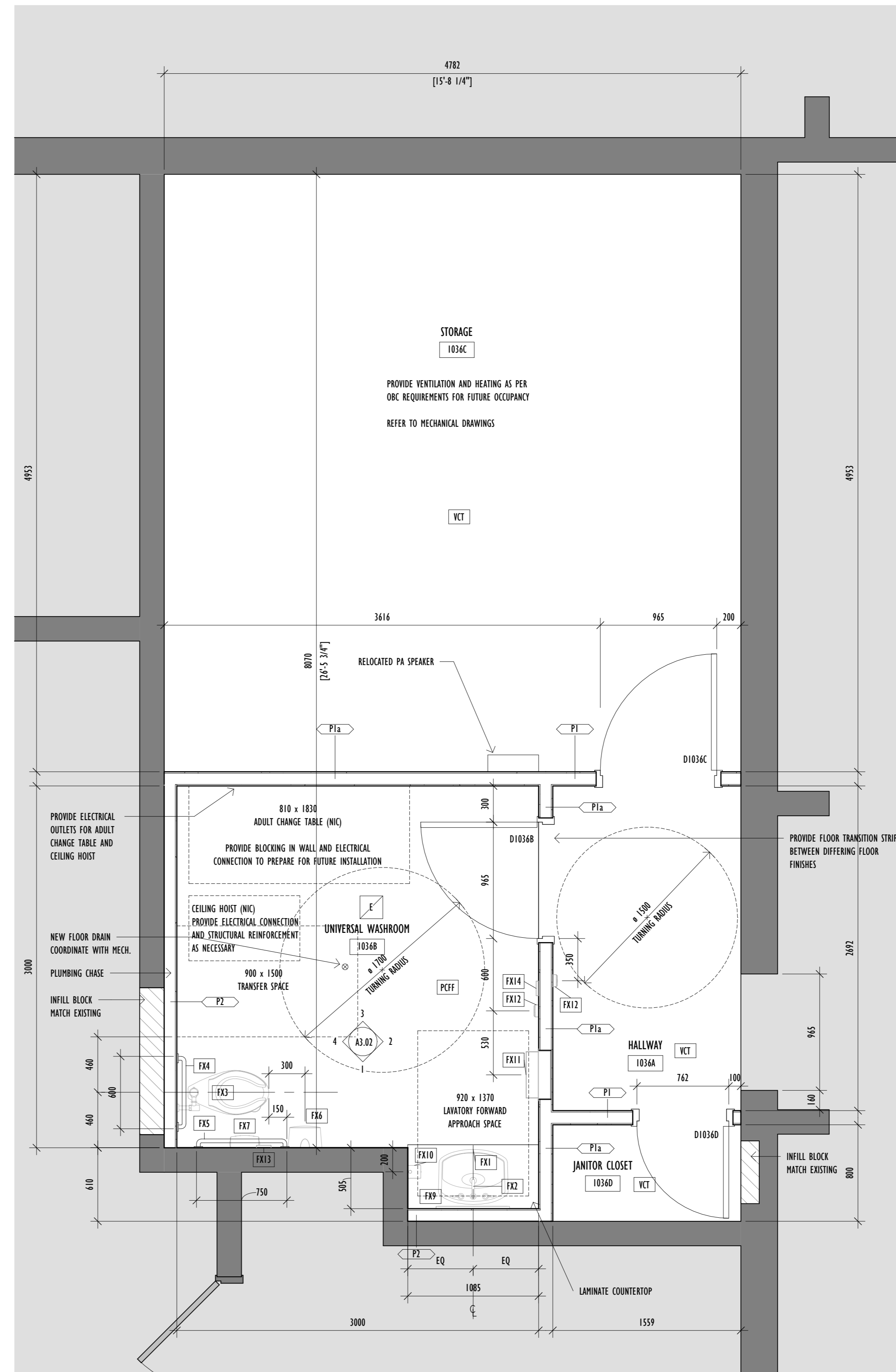
- GENERAL NOTES**
- ALL DIMENSIONS FOR EXISTING BUILDING ELEMENTS ARE APPROXIMATE. CONTRACTOR TO SITE VERIFY PRIOR TO DEMOLITION OR CONSTRUCTION
 - ANY PENETRATIONS THROUGH FIRE SEPARATIONS MUST BE FIRE SEALED.
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 - CONTRACTOR TO REVIEW CONFLICTS BETWEEN TRADES
 - CONTRACTOR TO NOTIFY ARCHITECT OF ANY SITE DISCREPANCIES

- FIXTURE AND FINISH LEGEND**
-  PROPOSED SINK
 -  PROPOSED FAUCET
 -  PROPOSED FLOOR MOUNT WATER CLOSET
 -  PROPOSED HORIZONTAL GRAB BAR
 -  PROPOSED L-SHAPE GRAB BAR
 -  PROPOSED TOILET PAPER DISPENSER
 -  PROPOSED SANITARY NAPKIN DISPOSAL
 -  PROPOSED SAFETY COAT HOOKS
 -  PROPOSED OBC COMPLIANT TILTED MIRROR
 -  PROPOSED SOAP DISPENSER
 -  PROPOSED COMBO PAPER TOWEL DISPENSER / GARBAGE
 -  6" ROUND AUTOMATIC DOOR OPERATOR PUSH PLATE
 -  EMERGENCY CALL BUTTON
 -  PUSH TO LOCK BUTTON
 -  UNIVERSAL WASHROOM PAINT
 -  WHITE PAINT
 -  PORCELAIN TILE 1
 -  PORCELAIN TILE 2 - ACCENT COLOUR
 -  PORCELAIN TILE FLOOR FINISH
 -  VINYL COMPOSITE TILE 1

- RCP LEGEND**
-  PROPOSED 600x600 LED PANEL
 -  PROPOSED POT LIGHT
 -  PROPOSED 300x600 LED PANEL
 -  PROPOSED HEAT DETECTOR
 -  PROPOSED EXHAUST FAN
 -  PROPOSED OCCUPANCY SENSOR
 -  LIGHTING SWITCH WITH DIMMER



PROPOSED PARTIAL RCP
Scale: 1 : 25



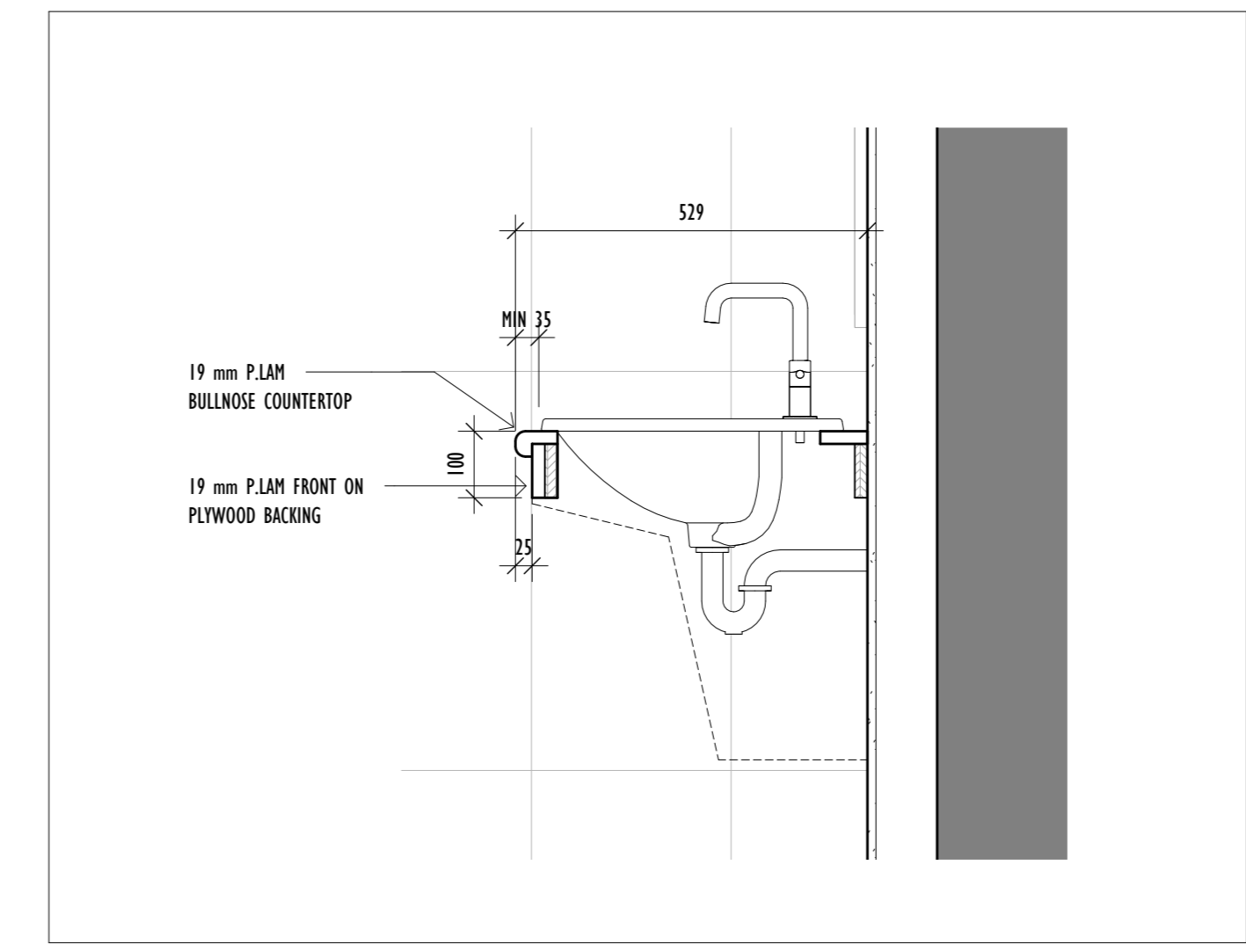
PROPOSED PARTIAL FLOOR PLAN
Scale: 1 : 25

DATE	ISSUED FOR CONSTRUCTION
DATE	ISSUED FOR PERMIT
DATE	ISSUED FOR TENDER
DATE	ISSUED FOR
Architect's Stamp	
Project	DUNDAS VALLEY SECONDARY SCHOOL UNIVERSAL WASHROOM RENOVATION
Address	310 GOVERNORS RD, DUNDAS, ONTARIO
Client	HWDSB
Project no.	2527
Scale	As indicated
Drawn By	KP
Print Date	26/04/10
Drawing Title	PROPOSED GROUND FLOOR PLAN
Sheet no.	A3.01

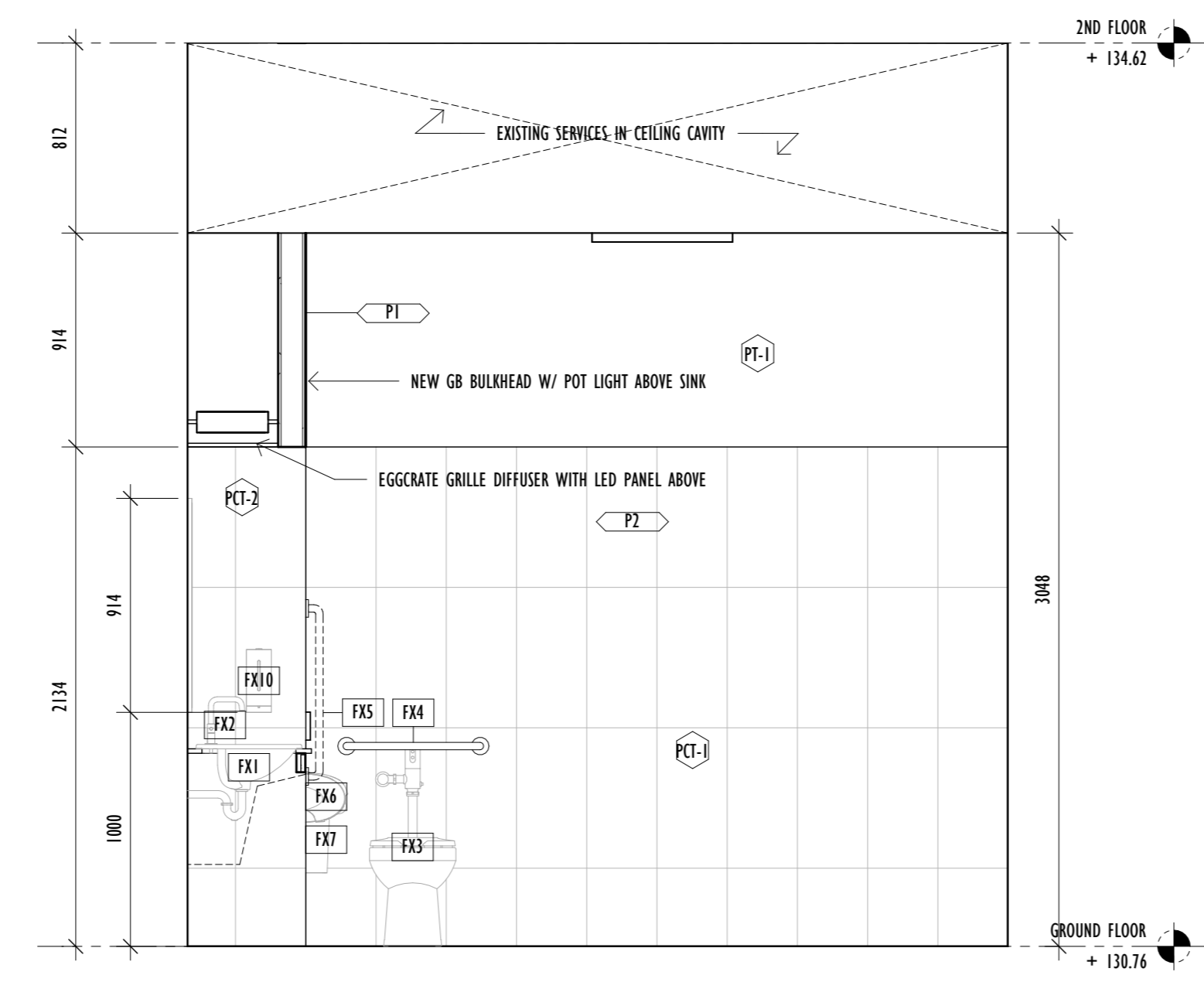
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HATCH LEGEND:

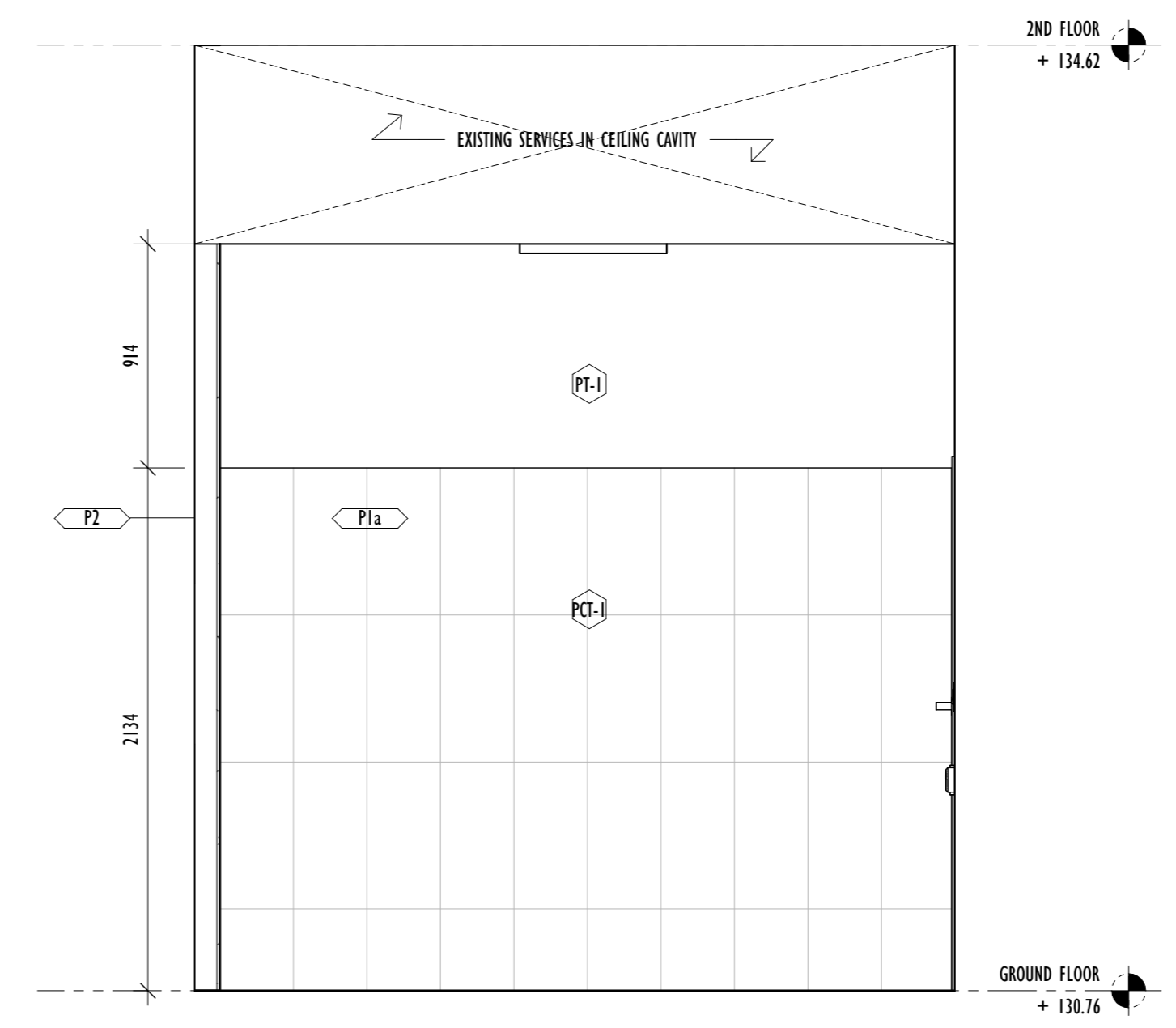
	EXISTING WALL
	EXISTING AREA
	DEMOLISHED
	PROPOSED



Detail 0
Scale: 1 : 10



4 PROPOSED UNIVERSAL WASHROOM - INTERIOR ELEVATION D
Scale: 1 : 25



3 PROPOSED UNIVERSAL WASHROOM - INTERIOR ELEVATION C
Scale: 1 : 25

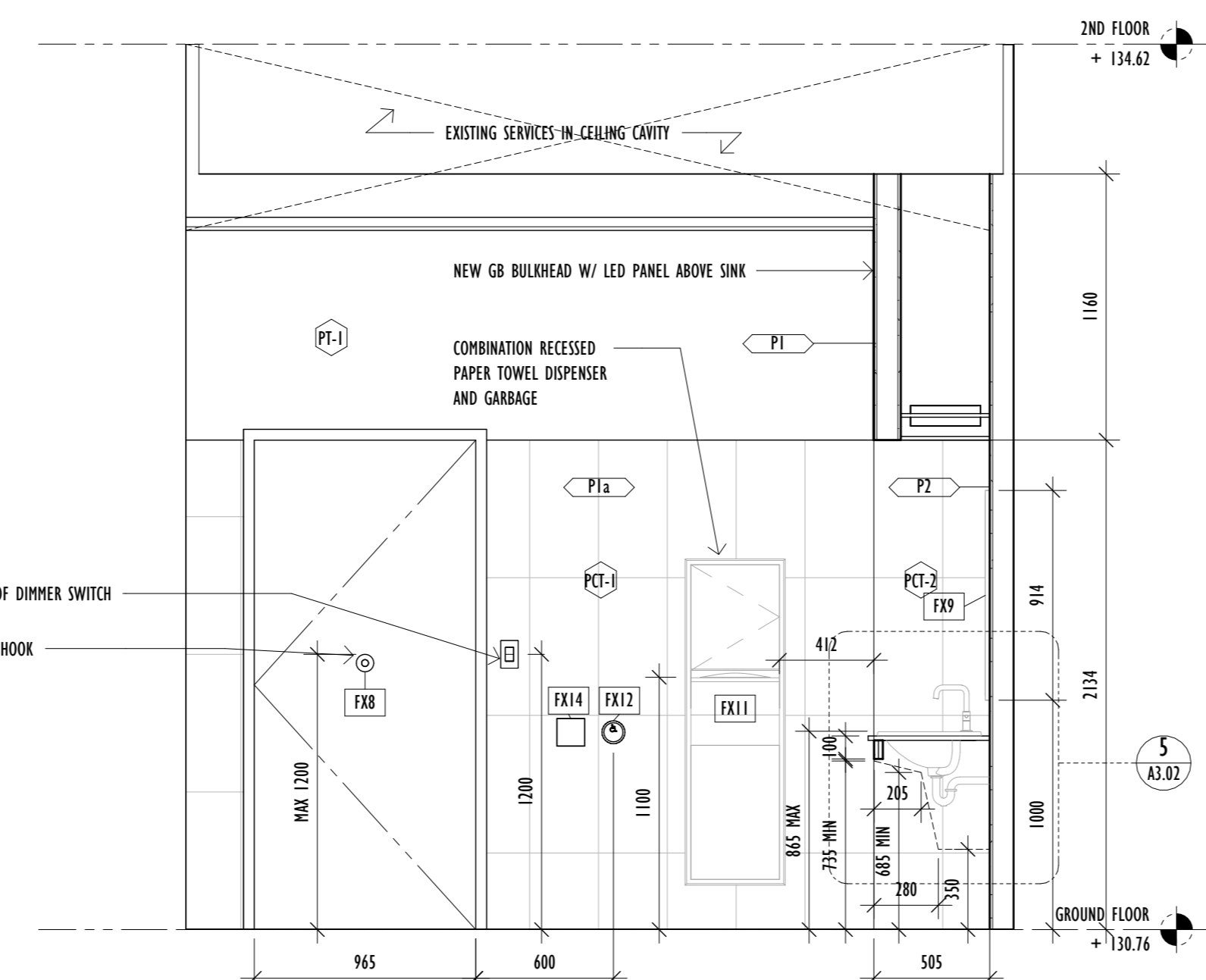
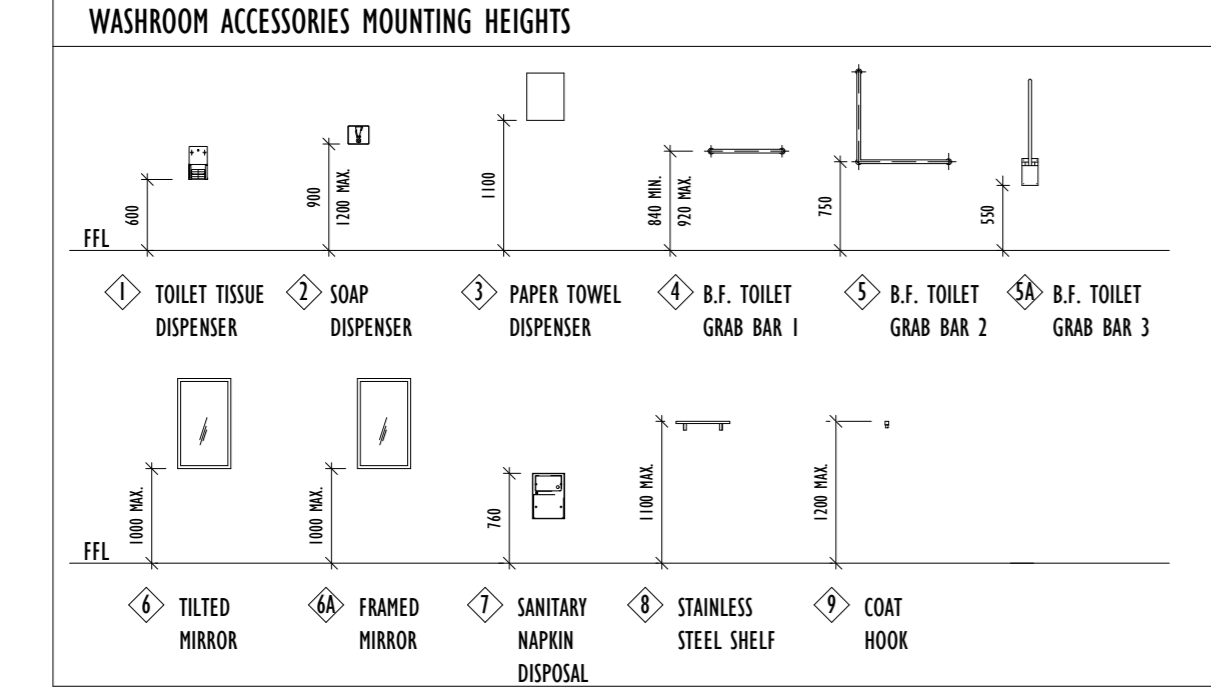
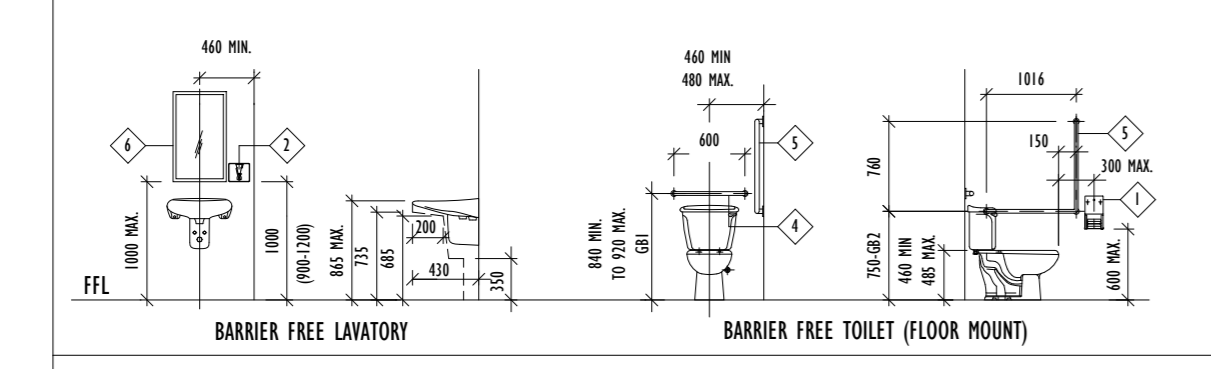
- GENERAL NOTES**
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 - CONTRACTOR TO REVIEW CONFLICTS BETWEEN TRADES.
 - CONTRACTOR TO NOTIFY ARCHITECT OF ANY SITE DISCREPANCIES.

FIXTURE AND FINISH LEGEND

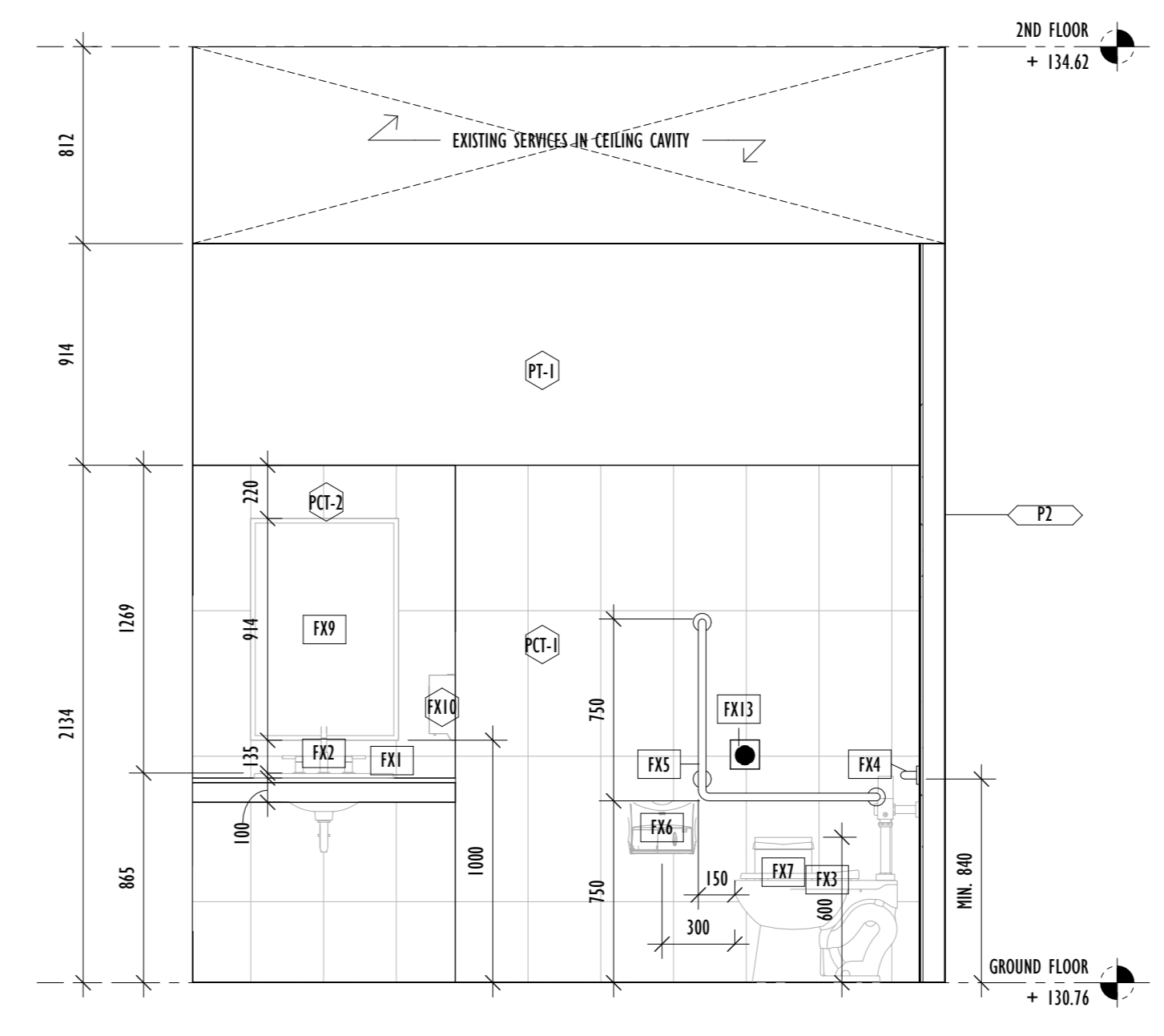
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	PROPOSED FAUCET
	PROPOSED FLOOR MOUNT WATER CLOSET
	PROPOSED HORIZONTAL GRAB BAR
	PROPOSED L-SHAPE GRAB BAR
	PROPOSED TOILET PAPER DISPENSER
	PROPOSED SANITARY NAPKIN DISPOSAL
	PROPOSED SAFETY COAT HOOKS
	PROPOSED OBC COMPLIANT TILTED MIRROR
	PROPOSED SOAP DISPENSER
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	6" ROUND AUTOMATIC DOOR OPERATOR PUSH PLATE
	EMERGENCY CALL BUTTON
	PUSH TO LOCK BUTTON

	UNIVERSAL WASHROOM PAINT
	WHITE PAINT
	PORCELAIN TILE 1
	PORCELAIN TILE 2 - ACCENT COLOUR
	PORCELAIN TILE FLOOR FINISH
	VINYL COMPOSITE TILE 1

- BARRIER FREE MOUNTING HEIGHT REQUIREMENTS**
- GRAB BARS SHALL BE MIN. 35mm \varnothing , 40mm \varnothing MAX.
 - CLEARANCE FOR GRAB BARS TO BE MIN. 38mm, 50mm MAX.
 - GRAB BARS TO HAVE SLIP RESISTANT SURFACE.
 - INSTALL GRAB BARS TO SUPPORT LOADING REQUIRED BY THE ONTARIO BUILDING CODE.
 - LOCATE COAT HOOK ON SIDEWALL OF TOILET STALL DOOR AT 1200mm MAX. ABOVE FINISHED FLOOR AND PROJECTING NOT MORE THAN 50mm.
 - ALL FIXTURES SHALL CONFORM TO BARRIER-FREE HEIGHTS OUTLINED IN THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
 - ALL ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
 - INSTALL DOOR OPERATOR, PUSH BUTTONS AND PUSH TO LOCK DEVICE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE ONTARIO BUILDING CODE.
 - INSTALL EMERGENCY CALL SYSTEM IN ACCORDANCE WITH THE LATEST EDITION OF THE ONTARIO BUILDING CODE.



2 PROPOSED UNIVERSAL WASHROOM - INTERIOR ELEVATION B
Scale: 1 : 25



1 PROPOSED UNIVERSAL WASHROOM - INTERIOR ELEVATION A
Scale: 1 : 25

30/05/20	ISSUED FOR COORDINATION
26/02/18	ISSUED FOR PERMIT
26/02/18	ISSUED FOR TENDER
DATE	ISSUED FOR

Architect's Stamp

Project: **DUNDAS VALLEY SECONDARY SCHOOL UNIVERSAL WASHROOM RENOVATION**

Address: 310 GOVERNORS RD, DUNDAS, ONTARIO

Client	HWDSB
Project no.	2527
Scale	As indicated
Drawn By	KP
Print Date	26/04/10

Project North

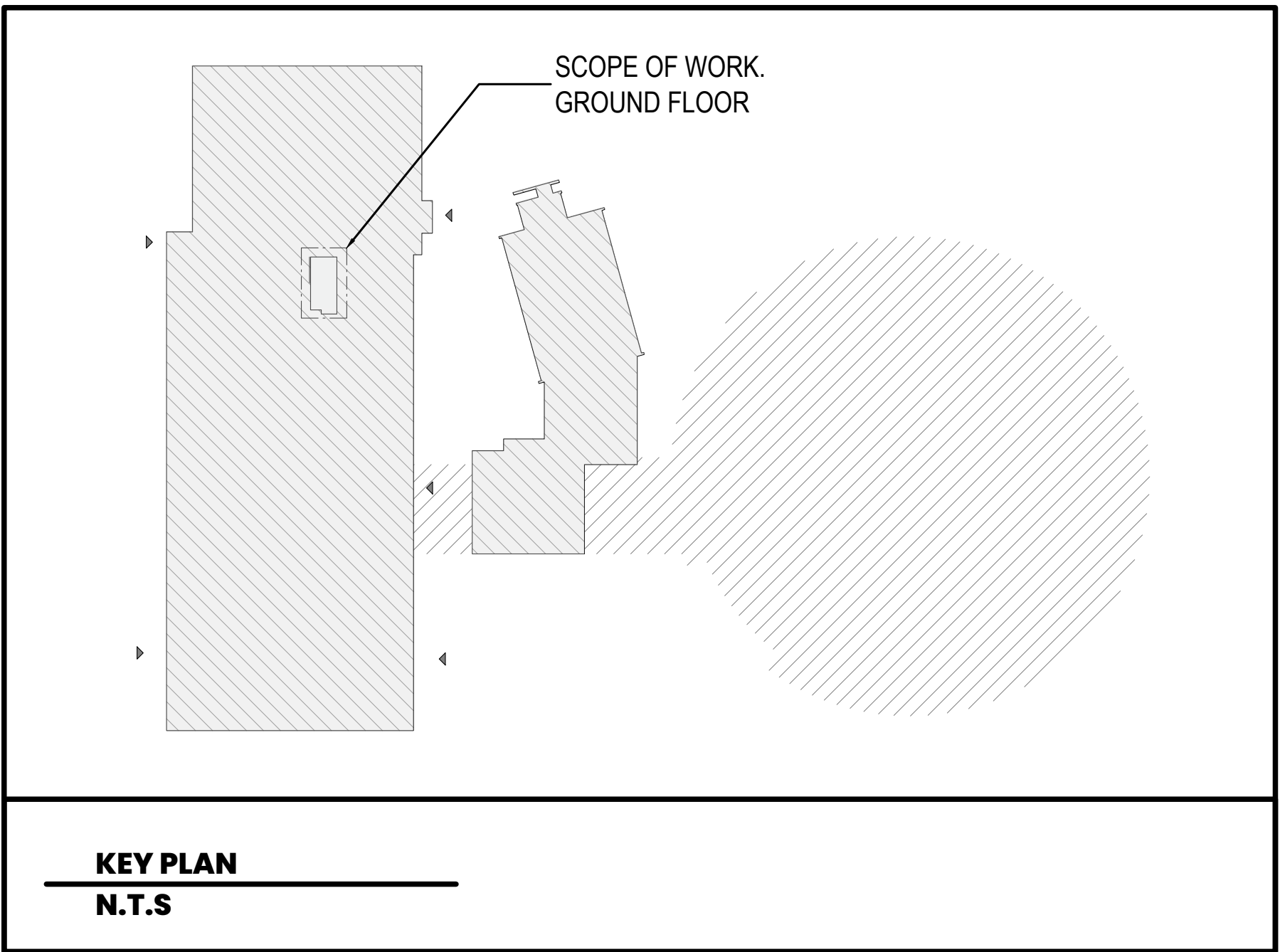
Drawing Title

PROPOSED INTERIOR ELEVATIONS

Sheet no. **A3.02**

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HVAC LEGEND	
SYMBOL	DESCRIPTION
	NEW RIGID DUCTWORK
	SUPPLY ROUND/SQUARE DIFFUSER
	RETURN/EXHAUST GRILLE
	SUPPLY DUCT DOWN / UP
	RETURN / EXHAUST DUCT DOWN / UP
	FIRE DAMPER
	BALANCING DAMPER
	THERMOSTAT
	FAN SWITCH
	TYPE OF EQUIPMENT EQUIPMENT IDENTIFICATION
	TYPE OF DIFFUSER OR GRILLE AIRFLOW (CFM OR L/S) GRILLE SIZE OR DIFFUSER NECK SIZE QUANTITY
	DOOR UNDERCUT



DUNDAS VALLEY SECONDARY SCHOOL
UNIVERSAL WASHROOM RENOVATION

310 GOVERNORS RD, DUNDAS, ONTARIO

DRAWING LIST

DWG. NO.	DRAWING NAME
M-01	COVER SHEET, SCHEDULES & DETAILS
M-02	MECHANICAL SPECIFICATIONS
M-03	MECH. LAYOUT
M-04	PLUMBING FIXTURE SCHEDULE

Riser
ENGINEERING
115 Apple Creek Blvd. - Unit 208
Markham, Ontario, L3R 6C9, Canada

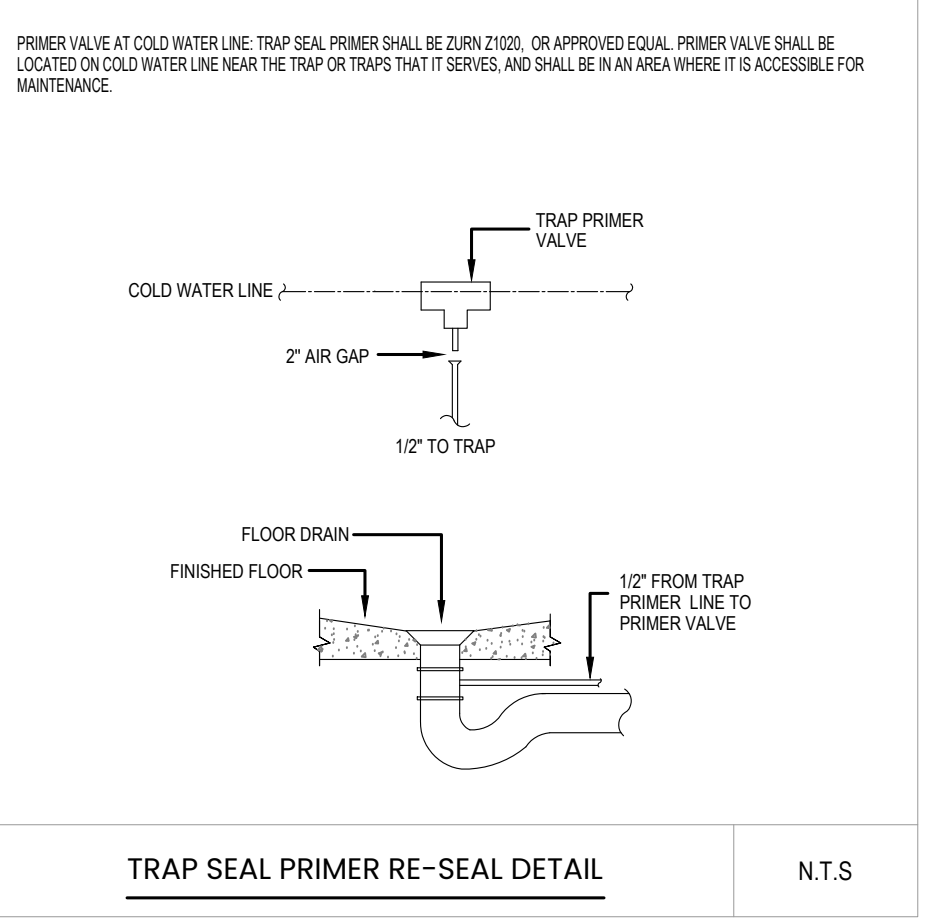
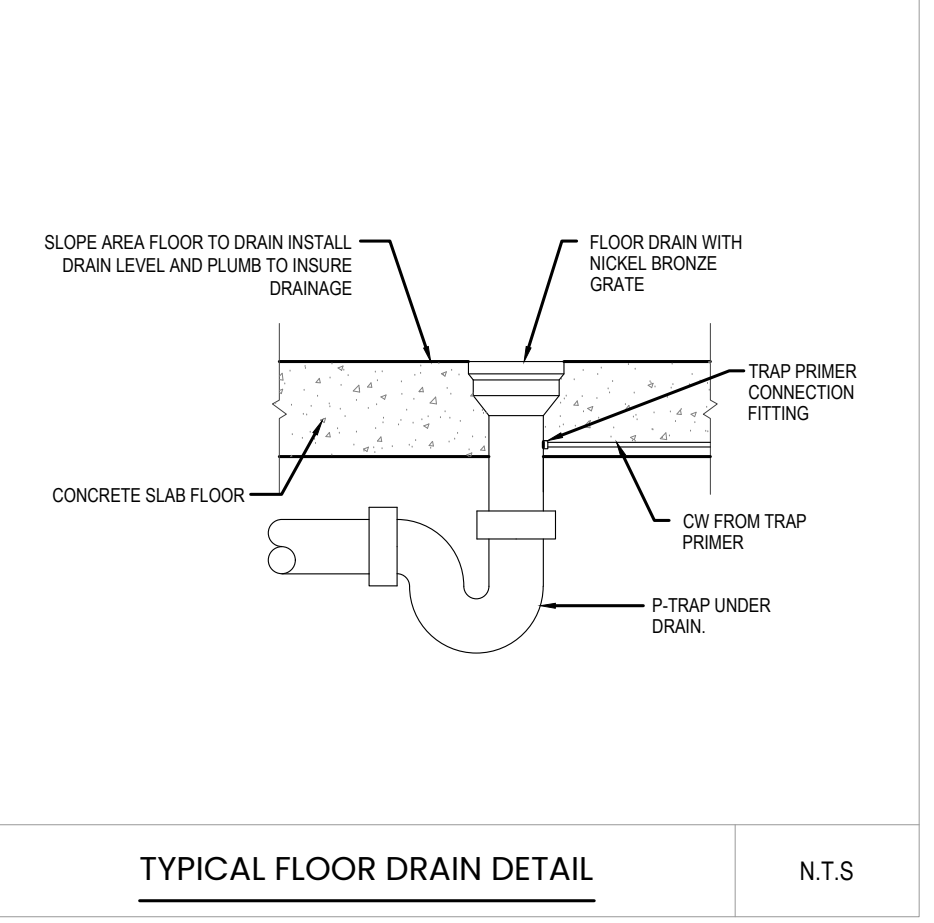
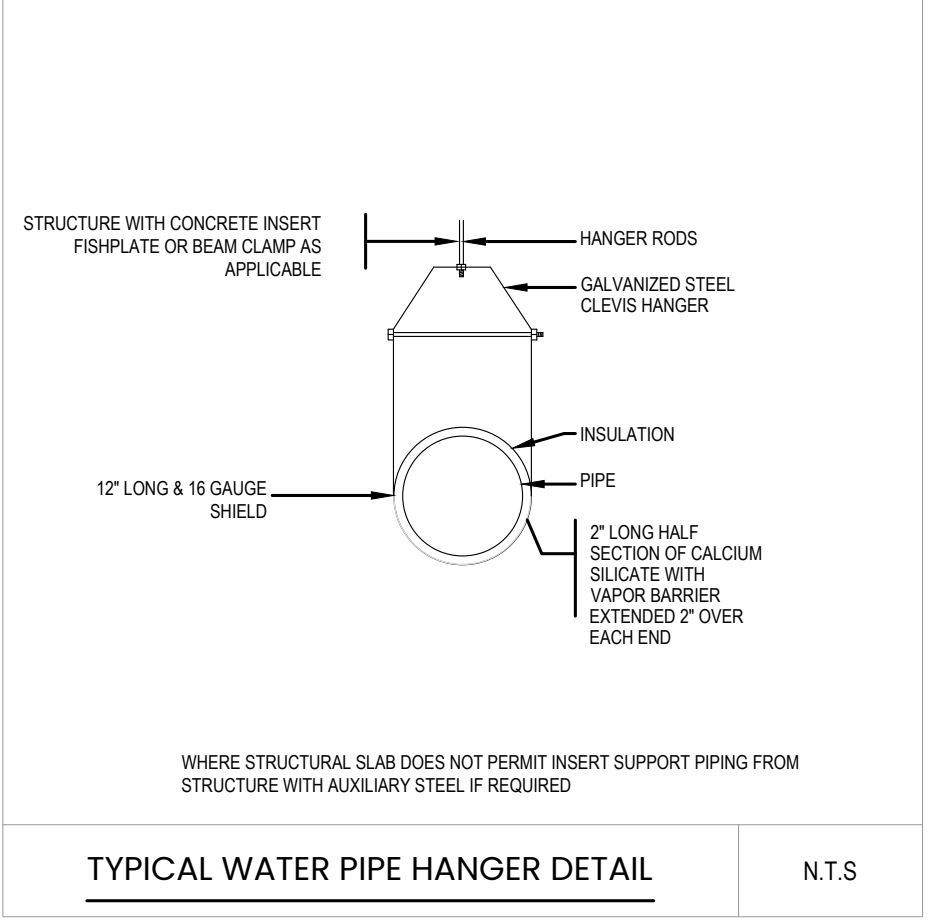
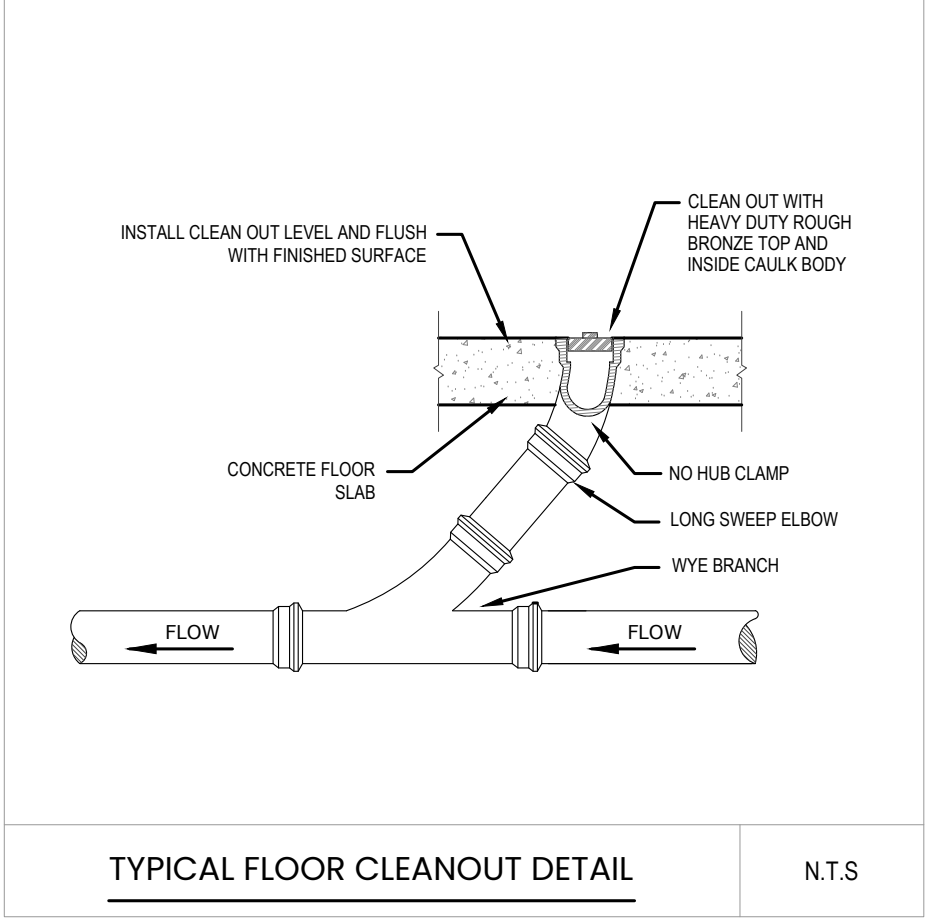
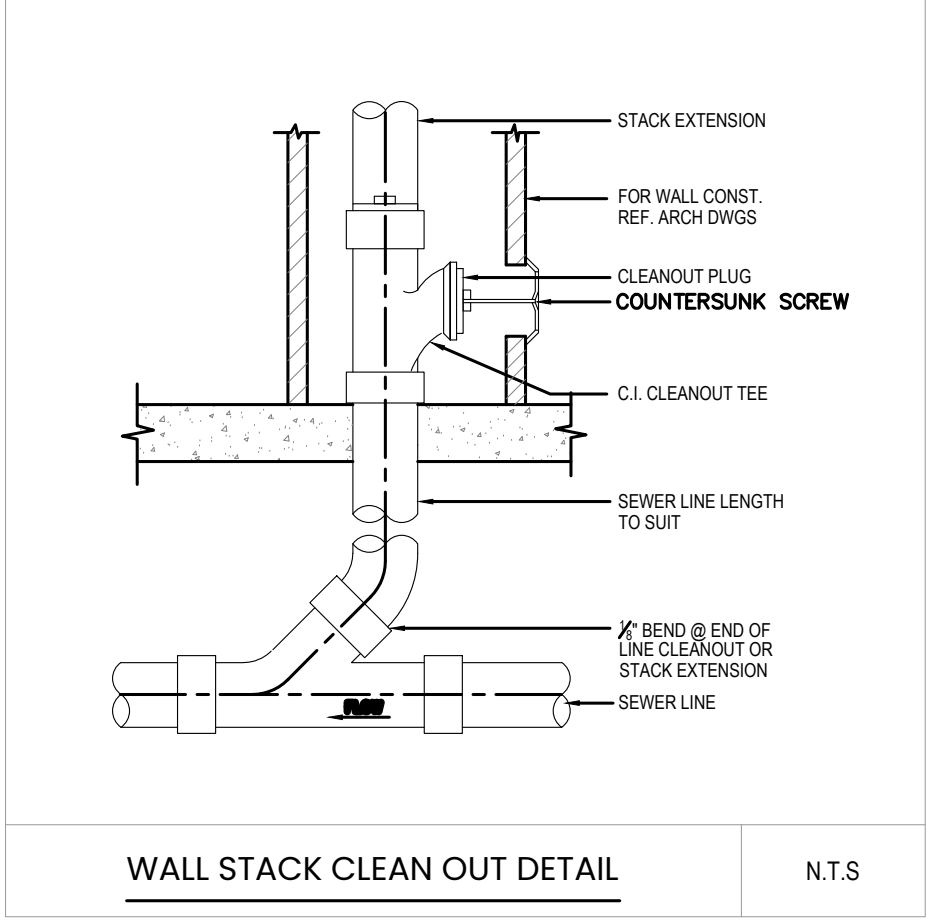
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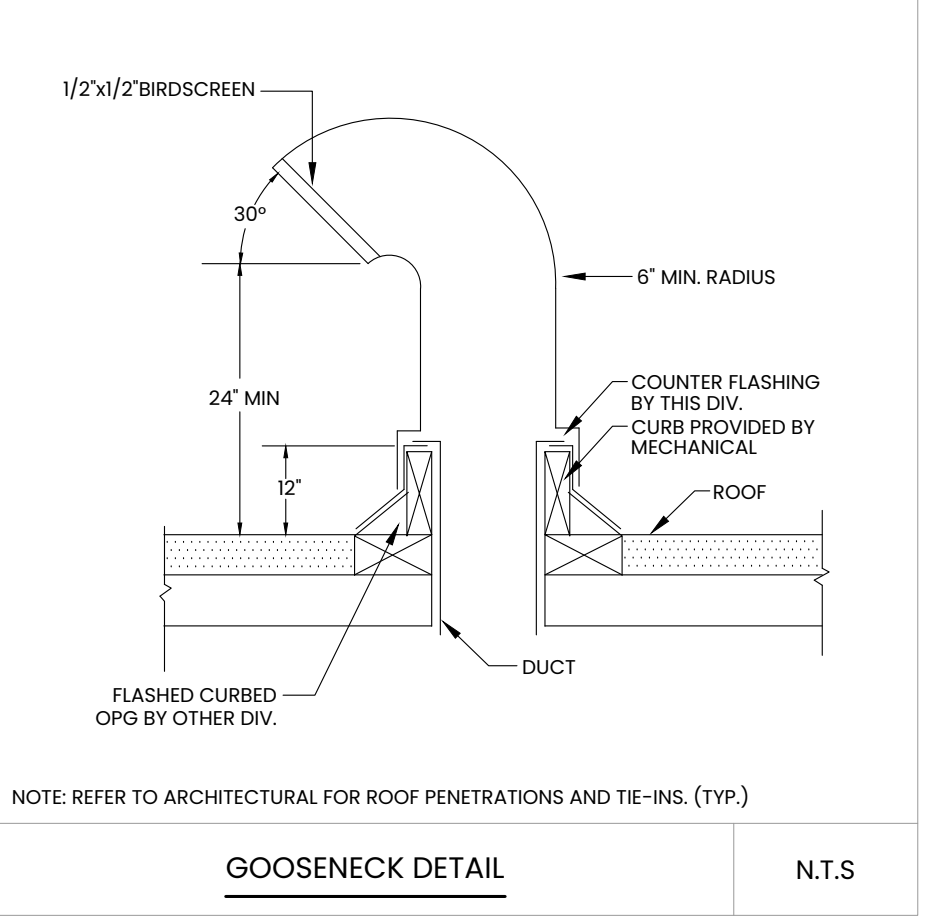
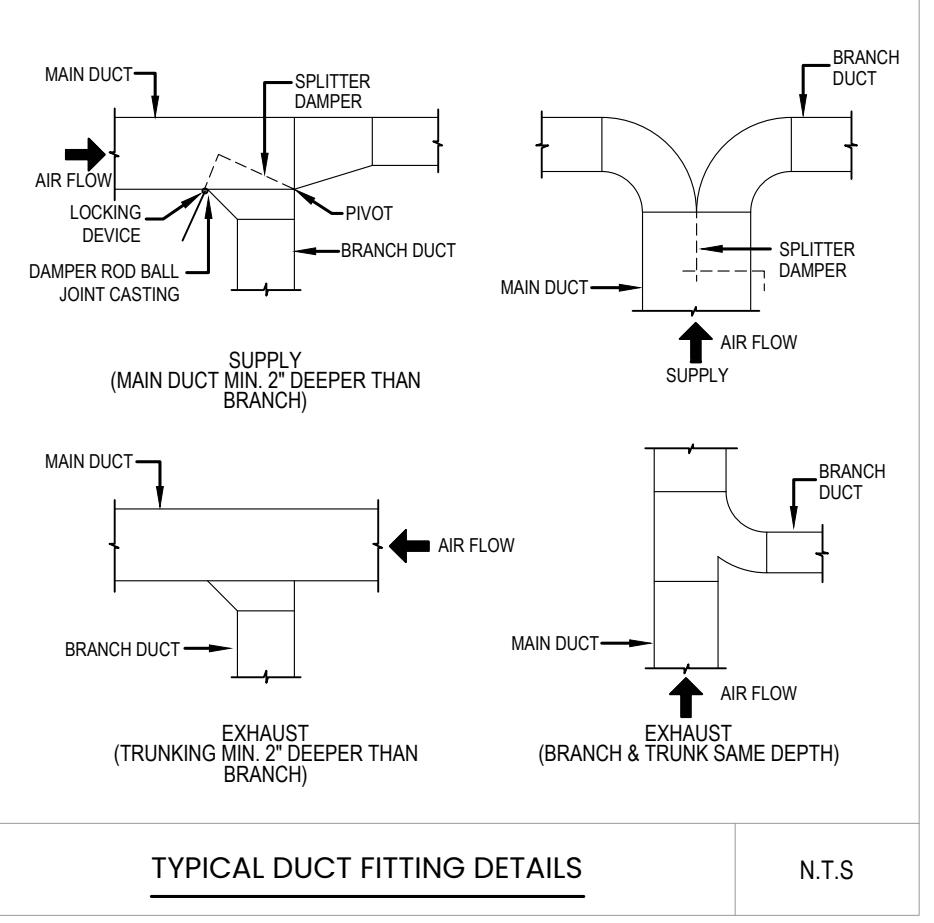
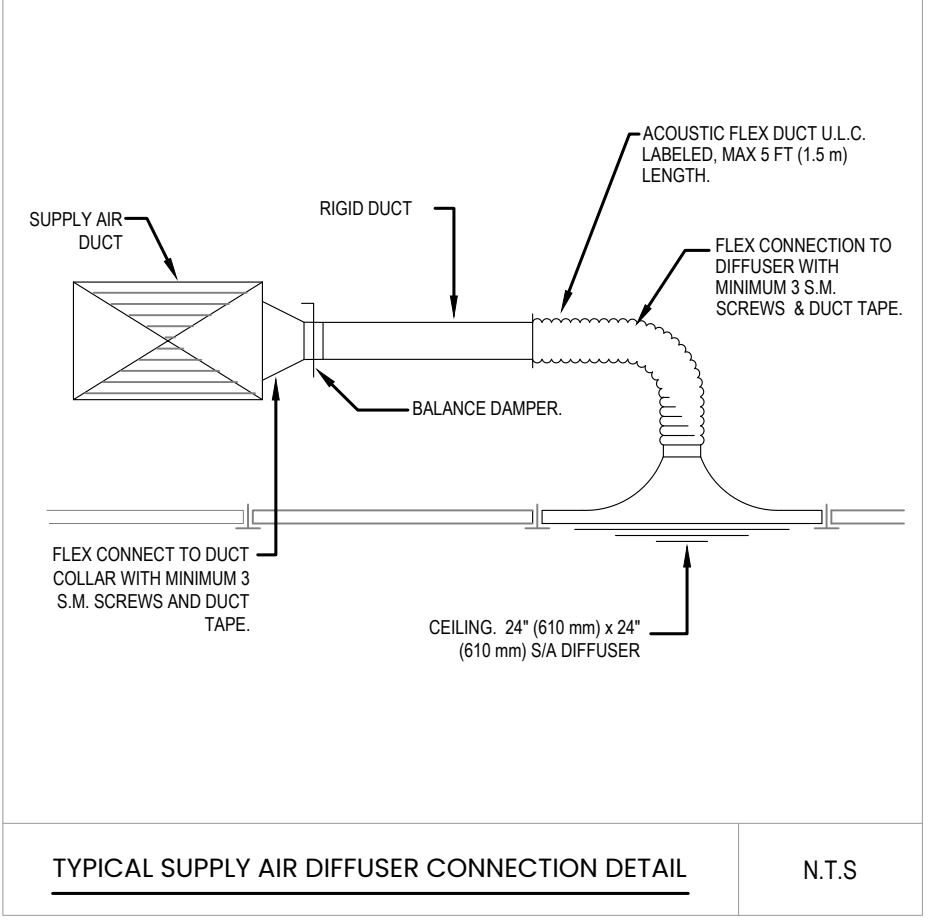
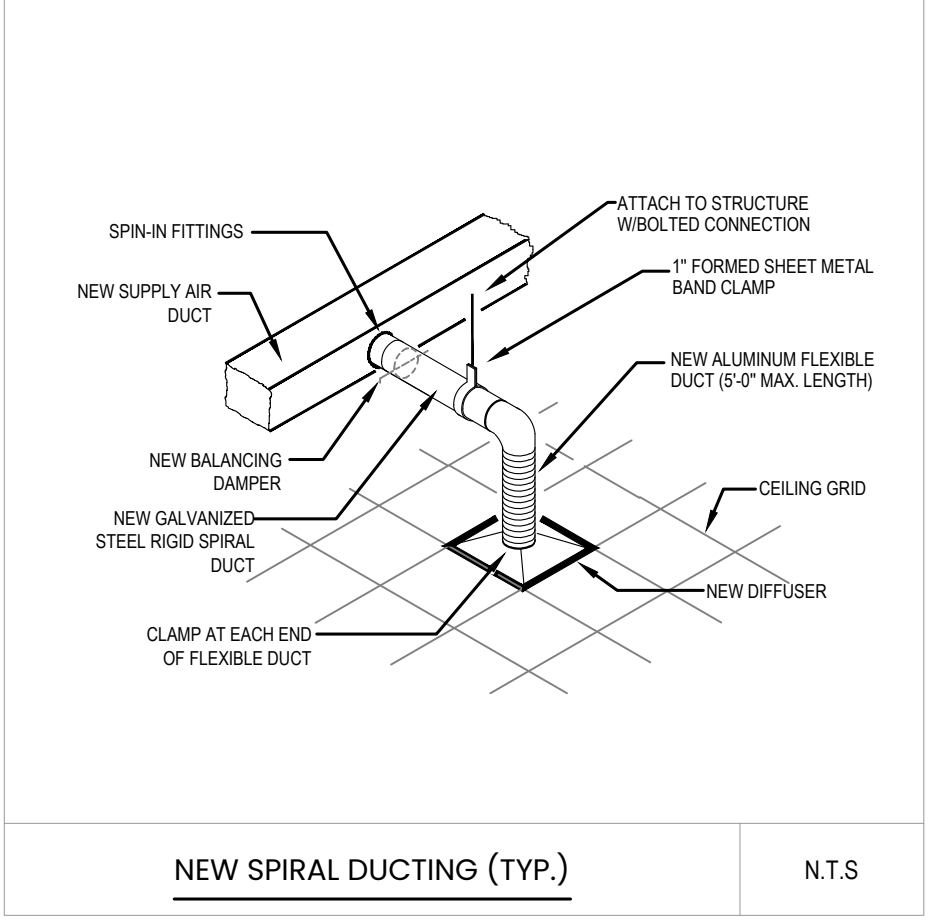
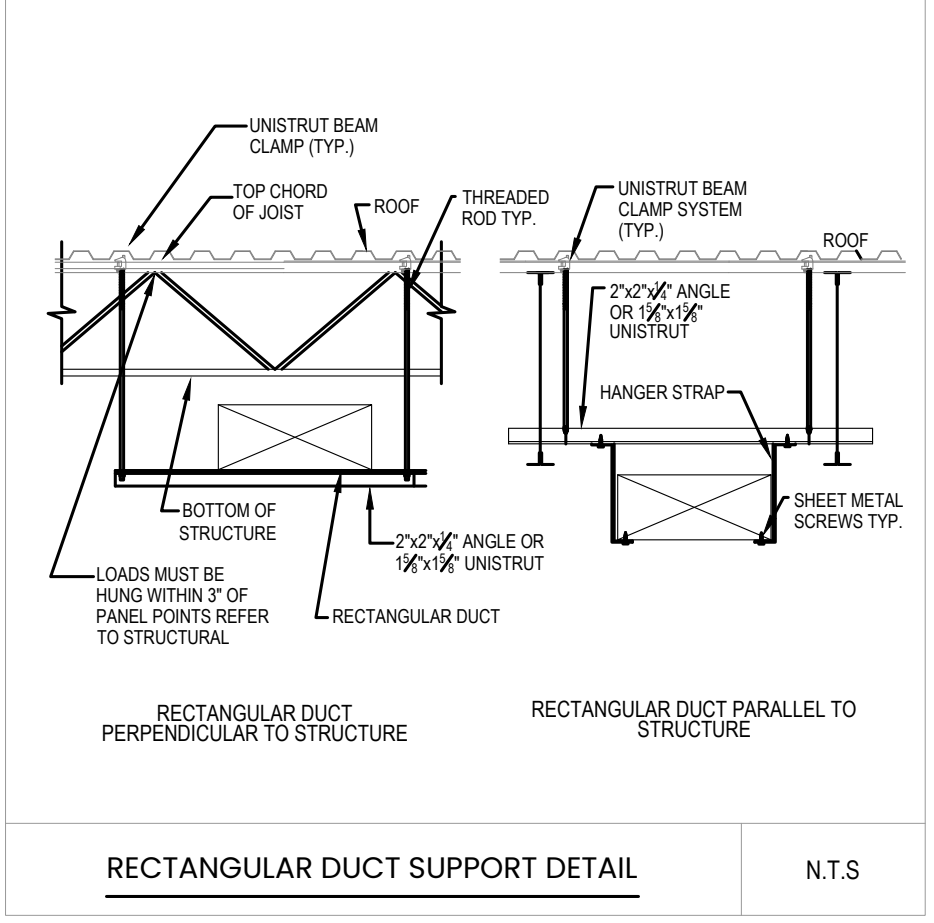
P & D LEGEND	
SYMBOL	DESCRIPTION
	SANITARY ABOVE GRADE
	SANITARY BELOW GRADE
	STORM ABOVE GRADE
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	SANITARY VENT
	WATER METER
	FLOOR DRAIN / HUB DRAIN
	SANITARY TRAP
	ELBOW UP
	ELBOW DOWN
	WALL CLEANOUT
	FLOOR CLEANOUT
	BALL VALVE
	TYPE OF EQUIPMENT EQUIPMENT IDENTIFICATION

FAN SCHEDULE (APPROVED EQUAL)										
TAG	SERVICE	MANUFACTURER	MODEL NO.	CFM	ESP (IN. W.G.)	MAX. OPERATING AMPS	V/PH/Hz	WEIGHTS (LBS)	REMARKS	NOTES:
EF - 1	STORAGE ROOM	GREENHECK	SP-A290-QD	150 (71L/s)	0.69	0.72	115/1/60	24	C/W BACK DRAFT DAMPER, VIBRATIONAL ISOLATORS, MOUNTING BRACKETS, GRILLE, INTERLOCK WITH LIGHT SWITCH OR OCCUPANCY SENSOR.	1. HVAC CONTRACTOR SHALL INSULATE ALL EXHAUST DUCTS WITH 25mm THERMAL INSULATION FOR THE LAST 3.0m BEFORE LEAVING THE BUILDING. 2. FLEXIBLE DUCT CONNECTIONS SHALL BE PROVIDED ON INTAKE AND DISCHARGE DUCTS AT FANS AND SHALL BE DURO-DYNE OR EQUAL, ULC APPROVED. 3. HVAC CONTRACTOR SHALL PROVIDE FANS WITH STARTERS, ROOF CURBS, SUPPORT HANGARS, VIBRATION ISOLATORS, FLEXIBLE DUCT CONNECTIONS, BACK DRAFT DAMPERS AND DUCTWORK AS REQUIRED.
EF - 2	WASHROOM	GREENHECK	SP-A200	100 (47L/s)	0.5	0.5	115/1/60	25	C/W BACK DRAFT DAMPER, VIBRATIONAL ISOLATORS, MOUNTING BRACKETS, GRILLE, INTERLOCK WITH LIGHT SWITCH OR OCCUPANCY SENSOR.	
EF - 3	JANITOR CLOSET	GREENHECK	SP-A200	100 (47L/s)	0.5	0.5	115/1/60	25	C/W BACK DRAFT DAMPER, VIBRATIONAL ISOLATORS, MOUNTING BRACKETS, GRILLE, INTERLOCK WITH LIGHT SWITCH OR OCCUPANCY SENSOR.	

GRILLES AND DIFFUSER SCHEDULE							
TYPE	MANUFACTURER	MODEL	DESCRIPTION	FACE DIMENSION	NECK DIMENSION	REMARKS	NOTES:
SD-A	E.H.PRICE	SCD	SQUARE SUPPLY DIFFUSER	24" x 24"	AS SHOWN	SQUARE SA PLAQUE DIFFUSER, MATTE FINISH.	1. USE ABOVE LISTED ACCESSORIES OR APPROVED EQUAL 2. COLOUR TO MATCH CEILING COLOR. 3. PROVIDE NECESSARY ACCESSORIES REQUIRED FOR COMPLETE INSTALLATION 4. SUPPLY AND RETURN AIR GRILLE LOCATION SHOULD BE COORDINATED ON SITE WITH OTHER DISCIPLINES.



ABBREVIATIONS	
TAG	DESCRIPTION
T/A	TRANSFER AIR
S/A	SUPPLY AIR
R/A	RETURN AIR
N	NEW
EX	EXISTING
EXR	EXISTING TO BE RELOCATED
REM	REMOVE
RP	RELOCATED POSITION
HWS	HOT WATER SUPPLY
HWR	HOT WATER RETURN



NO.	ISSUED FOR:	BY:	DATE:
2.	ISSUED FOR TENDER	K.N	10/04/26
1.	ISSUED FOR PERMIT	K.N	19/02/26

REVISION TABLE

PROJECT NAME:
DUNDAS VALLEY SECONDARY SCHOOL

PROJECT:
UNIVERSAL WASHROOM RENOVATION

310 GOVERNORS ROAD,
DUNDAS, ON.

DRAWING TITLE:
COVER SHEET SCHEDULES & DETAILS

PROJECT NO:	DATE:	PROJECT NORTH:
25119	JAN. 2026	
DRAWN BY:	CHECK BY:	
J.N.	K.N/R.J.	
SCALE:	PAPER SIZE:	
N.T.S.	ARCH-D (24X36)	

DRAWING NUMBER:
M - 01

MECHANICAL SPECIFICATIONS

GENERAL REQUIREMENTS FOR MECHANICAL WORK

- 1.0 SCOPE OF WORK
 - 1.1 CONFORM TO THE APPLICABLE PROVISIONS OF THE GENERAL CONDITIONS OF THE CONTRACT.
 - 1.2 THE GENERAL MECHANICAL SPECIFICATION SHALL APPLY TO AND BE PART OF EACH OF THE SECTIONS COVERING THE MECHANICAL TRADES WORK.
 - 1.3 COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE N.B.C. ALL OTHER APPLICABLE CODES, REGULATIONS, BY-LAWS, AND OFFICIAL STANDARDS ACCORDING TO THE REQUIREMENTS AND INTERPRETATIONS OF THE AUTHORITIES HAVING JURISDICTION. THESE CODES & STANDARDS CONSTITUTE AN INTEGRAL PART OF THESE SPECIFICATIONS. IN CASE OF CONFLICT, THE CODES TAKE PRECEDENCE OVER THE CONTRACT DOCUMENTS.
- 2.0 EXAMINATION OF SITE AND INFORMATION
 - 2.1 EACH SUBCONTRACTOR MAY EXAMINE THE SITE ONLY DURING WALKTHROUGH. SITE WALK IS NOT MANDATORY FOR ANY TRADES.
 - 2.2 IT SHALL BE THIS SUBCONTRACTOR'S RESPONSIBILITY THAT MATERIAL AND EQUIPMENT BE BROUGHT INTO THE BUILDING IN SUCH ASSEMBLIES AND SIZES AS TO ENTER INTO THE SPACES WHERE THEY ARE TO BE LOCATED AND TO BE SMALL ENOUGH TO BE HOSTED INTO THE BUILDING WITHOUT DIFFICULTY. ANY CUTTING, PATCHING, ETC., INVOLVED IN GETTING LARGE ASSEMBLIES INTO PLACE, SHALL BE THE RESPONSIBILITY OF THIS SUBCONTRACTOR.
- 3.0 RELATIONSHIP TO OTHER TRADES
 - 3.1 THIS SUBCONTRACTOR SHALL CONFER WITH ALL OTHER CONTRACTORS INSTALLING EQUIPMENT, PLANT PIPING, OTHER WORK, FOUNDATIONS, ETC., WHICH MAY AFFECT HIS INSTALLATION, AND HE SHALL ARRANGE HIS EQUIPMENT, PIPING, ETC., IN PROPER RELATION WITH OTHER APPARATUS, AND WITH THE BUILDING CONSTRUCTION. HE SHALL ALSO CONFIRM THE ELECTRICAL CHARACTERISTICS OF THE PROJECT AND ORDER EQUIPMENT ACCORDINGLY.
 - 3.2 SPECIAL CARE SHALL BE TAKEN IN THE INSTALLATION OF ALL WORK, TO SEE THAT THEY ALL COME WITHIN THE LIMITS ESTABLISHED BY THE FINISH LINES OF ALL WALLS, FLOORS, CEILING, ETC.
 - 3.3 THIS SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR AND OTHER SUBCONTRACTORS WHO ARE CONCERNED, OF ALL OPENINGS, FOUNDATION WORK, HANGERS, INSERTS, ANCHORS, OR OTHER PROVISIONS NECESSARY IN THEIR WORK FOR THE INSTALLATION OF HIS WORK, AND HE SHALL FURNISH ALL INFORMATION AND NECESSARY MATERIALS IN AMPLE TIME SO THAT PROPER PROVISIONS CAN BE MADE FOR SAME, AND SHALL SUPPLY AND CORRECTLY AND ACCURATELY PLACE ALL INSERTS, SLEEVES, ANCHORS, ETC.
 - 3.4 FAILURE TO COMPLY WITH THESE REQUIREMENTS ON THE PART OF THIS SUBCONTRACTOR WILL RENDER HIM RESPONSIBLE FOR THE COST OF CUTTING OPENINGS, INSTALLING HANGERS AND OTHER PROVISIONS AT A LATER DATE, AND THE SUBSEQUENT PATCHING, ETC., THEREBY REQUIRED.
 - 3.5 NO CUTTING SHALL BE DONE WITHOUT PERMISSION. ALL SUCH WORK SHALL BE DONE BY TRADESMEN SKILLED IN AND CERTIFIED FOR THIS PARTICULAR TRADE.
- 4.0 SHOP DRAWINGS
 - 4.1 EACH SUBCONTRACTOR SHALL SUBMIT EIGHT (8) COPIES OF THE SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW OF MATERIAL, EQUIPMENT, AND APPARATUS BE PROVIDED BY HIM. THESE SHALL SHOW IN DETAIL THE DESIGN AND CONSTRUCTION AND PERFORMANCE OF ALL APPARATUS, ETC.
 - 4.2 THE ENGINEER'S REVIEW OF SHOP DRAWINGS AND MANUFACTURER'S SPECIFICATIONS OF ANY EQUIPMENT IS GENERAL AND IS NOT INTENDED TO SERVE AS FINAL CHECK AND IT SHALL NOT RELIEVE THE SUBCONTRACTOR OF THE RESPONSIBILITY FOR ERRORS OR OF THE NECESSITY OF CHECKING THE DRAWING HIMSELF, OR OF FURNISHING ANY OF THE MATERIALS AND PERFORMING THE WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS TO THE FULL INTENT OF THIS SPECIFICATION.
 - 4.3 BEFORE SUBMISSION, THIS SUBCONTRACTOR SHALL CHECK ALL SHOP DRAWINGS FOR ACCURACY OF DETAILS, DIMENSIONS, ETC. AND SHALL BE SATISFIED THAT THE DRAWINGS ARE CORRECT AND THAT THE EQUIPMENT WILL FIT PROPERLY IN THE ALLOTTED SPACE. THE SHOP DRAWINGS SHALL BE STAMPED BY THIS SUBCONTRACTOR WITH THE WORD 'REVIEWED', THE DATE OF APPROVAL, AND THE FIRM'S NAME PRIOR TO SUBMISSION.
- 5.0 REQUIREMENTS OF INSPECTION DEPARTMENTS
 - 5.1 ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION IN EACH CASE, PARTICULARLY ALL AFFECTED DEPARTMENTS OF THE MUNICIPALITY AND PROVINCE. ELECTRICAL EQUIPMENT SUPPLIED MUST CONFORM TO THE REGULATIONS OF CSA AND THE LOCAL UTILITY. ANYTHING NECESSARY TO MAKE THE WORK COMPLY WITH THESE REQUIREMENTS SHALL BE PROVIDED BY THE SUBCONTRACTOR WITHOUT ADDITIONAL COST TO THE OWNERS IF IT REASONABLY COULD HAVE BEEN FORESEEN WHEN TENDERING.
 - 5.2 EACH SUBCONTRACTOR SHALL PREPARE DRAWINGS IN ADDITION TO ENGINEER'S DRAWINGS AS MAY BE REQUIRED BY VARIOUS INSPECTION DEPARTMENTS HAVING JURISDICTION, AND OBTAIN THEIR APPROVAL BEFORE PROCEEDING WITH THE WORK.
 - 5.3 IN THE EVENT THAT THE INSPECTION DEPARTMENT'S REQUEST DEVIATES FROM THE ENGINEER'S LAYOUT, SUBCONTRACTOR SHALL CONSULT THE ENGINEER BEFORE PROCEEDING WITH SAME. IT SHALL BE NOTED THAT ENGINEER'S DRAWINGS ARE GENERALLY ACCEPTABLE TO INSPECTION DEPARTMENTS AND MINOR SUPPLEMENTS NEED ONLY BE MADE BY SUBCONTRACTORS.
- 6.0 CERTIFICATES, PERMITS, FEES
 - 6.1 SUBCONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES INCLUDING PAYMENT FOR STREET CONNECTIONS TO STORM, SANITARY, WATER AND GAS IN ORDER THAT THE WORK HEREBY SPECIFIED MAY BE CARRIED OUT AND HE SHALL FURNISH ANY CERTIFICATES NEEDED AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH THE LAWS AND REGULATIONS OF THE MUNICIPALITY AND PROVINCE.
 - 6.2 SUBCONTRACTOR SHALL CONTACT THE LOCAL GAS COMPANY AS SOON AS POSSIBLE AND VERIFY THAT GAS SERVICE IS AVAILABLE AT PRESSURE AND CAPACITY REQUIRED FOR THE PROJECT. HE SHALL INFORM ENGINEER IMMEDIATELY, IF THERE IS ANY PROBLEM WITH GAS SERVICE WHATSOEVER. IT SHALL BE THIS SUBCONTRACTOR'S RESPONSIBILITY TO COORDINATE GAS REQUIREMENTS WITH THE GAS COMPANY BEFORE ANY OF HIS WORK PROCEEDS.
- 7.0 GUARANTEE
 - 7.1 THIS SUBCONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP USED IN THE WORK TO BE IN STRICT ACCORDANCE WITH THE SPECIFICATIONS, OF BEST QUALITY AND TYPE OBTAINABLE TO GIVE FIRST-CLASS CONSTRUCTION AND PROPER AND EFFICIENT OPERATION, AND FREE FROM ANY DEFECTS. ANY SUCH DEFECTS WHICH MAY APPEAR IN ANY OF THE WORK WITHIN ONE YEAR AFTER WRITTEN ACCEPTANCE OF HIS WORK, SHALL BE REPAIRED AND REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WHERE SUCH DEFECTS OCCUR, THIS SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED IN MAKING THE DEFECTIVE WORK GOOD. THIS SHALL NOT OBSOLETE ANY LONGER WARRANTIES ON SPECIFIC ITEMS OF EQUIPMENT.
 - 7.2 ALL INJURIES TO ADJACENT WORK, PARTICULARLY PLASTER, WOOD FINISHES OR OTHER MATERIALS, OR DAMAGE TO OTHER EQUIPMENT, CAUSED BY SUCH DEFECTS OF THIS SUBCONTRACTOR'S WORK OR BY SUBSEQUENT REPLACEMENTS AND REPAIRS, SHALL BE MADE GOOD AT THE EXPENSE OF THIS SUBCONTRACTOR. ALL REPAIR WORK SHALL BE DONE BY THE TRADES RESPONSIBLE FOR THE ORIGINAL WORK.

- 9.0 DRAWINGS
 - 9.1 THE DRAWINGS SHOW THE APPROXIMATE LOCATION FOR THE SPECIAL APPARATUS AND THE MATERIALS THROUGHOUT THE BUILDING. THE ARRANGEMENT SHOWN ON THE DRAWINGS IS MORE OR LESS DIAGRAMMATIC AND AS SUCH APPROXIMATE ONLY, AND MAY BE ALTERED, AS APPROVED BY THE ENGINEER, TO MEET THE REQUIREMENTS OF THE APPARATUS, ETC., AND OF THE BUILDING. EACH SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL MEASUREMENTS FOR HIS WORK THROUGHOUT, AND HE SHALL ARRANGE HIS PIPING, WIRING, AND APPARATUS TO CONFORM TO THE ARCHITECTURAL AND STRUCTURAL DETAILS IN A SATISFACTORY MANNER AND SHALL CO-OPERATE WITH OTHER CONTRACTORS TO ENSURE THAT WORK SHALL MEET ALL REQUIREMENTS OF DIVERSE CONTRACTS.
 - 9.2 THE SUBCONTRACTOR IS PARTICULARLY CAUTIONED THAT SMALL SCALE ENGINEER'S PLANS MUST BE SUPPLEMENTED BY HIS OWN DETAIL DRAWINGS WHERE NECESSARY FOR PROPER CO-ORDINATION OF THE WORK.
 - 9.3 ITEMS OBVIOUSLY REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM BUT NOT SPECIFIED NOR SHOWN SHALL BE INCLUDED.
- 10.0 CONTRACTOR'S SHOP
 - 10.1 EACH SUBCONTRACTOR SHALL PROVIDE HIS OWN OFFICE, WORKSHOP, TOOLS AND MATERIALS STORAGE AND BE RESPONSIBLE FOR ANY LOSS OR DAMAGE THERETO, BUILDING SHALL BE EXERCISED UNDER THE SUPERVISION OF THE CONTRACTOR.
- 11.0 RESPONSIBILITY AND LIABILITY
 - 11.1 EACH SUBCONTRACTOR SHALL SUPERVISE THE LAYING OUT OF HIS WORK AND SHALL ARRANGE IT IN CO-OPERATION WITH OTHERS WHO MAY BE WORKING ON THE PREMISES WHILE THE WORK OF THIS CONTRACT IS IN PROGRESS. HE SHALL PROTECT FINISHED AND UNFINISHED WORK OF THIS CONTRACT AND/OR WORK OF OTHERS ON THE PREMISES UNTIL THE COMPLETED WORK HAS BEEN ACCEPTED, OF ANY DISCREPANCIES OR INCONSISTENCIES FOUND IN THE DRAWINGS OR SPECIFICATIONS BEFORE SUBMITTING HIS TENDER. HE SHALL ABIDE BY THE DECISION GIVEN HIM.
 - 11.2 IN WRITING REGARD TO SAME, EACH SUBCONTRACTOR IS CAUTIONED THAT THE WORK AS SHOWN IS INTENDED TO BE COMPLETE IN ALL RESPECTS AND THAT FAILURE ON HIS PART TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES WILL NOT RELIEVE HIM OF THE RESPONSIBILITY OF COMPLETING THE WORK AS INTENDED AT THE CONTRACT PRICE.
- 12.0 CLEAN-UP
 - 12.1 UPON COMPLETION OF HIS WORK EACH CONTRACTOR SHALL LEAVE THE PREMISES IN A BROOM-CLEAN CONDITION.
- 13.0 PROTECTION
 - 13.1 PROTECT YOUR WORK FROM CONSTRUCTION DIRT OR DAMAGE FROM ANY CAUSE. SECURELY PLUG AND CAP ALL OPENINGS IN PIPE, EQUIPMENT, AND FIXTURES TO PREVENT OBSTRUCTIONS.
- 14.0 IDENTIFICATION OF EQUIPMENT
 - 14.1 IDENTIFY ALL FANS, PUMPS, MOTOR STARTERS, AND OTHER MECHANICAL EQUIPMENT AS TO SERIAL NUMBER, MANUFACTURER, MODEL, AND SIZE. BRANCH DAMPERS SHALL BE IDENTIFIED AND SCREWS TO EACH UNIT. NOTE THAT BOTH UNIT AND ITS REMOTE STARTER SHALL BE TAGGED. PROVIDE PRESSURE SENSITIVE TAPE MARKERS, SHOWING PIPE SERVICE AND ARROWS INDICATING DIRECTION OF FLOW ON EXPOSED PIPES. ON CONCEALED PIPES, PROVIDE MARKERS ADJACENT TO ACCESS DOORS THROUGHOUT THE LENGTH OF PIPES AT INTERVALS NOT EXCEEDING 50 FEET. INSTALL MARKERS AFTER PIPE HAS BEEN PAINTED AND ON BOTH SIDES OF ANY WALL THROUGH WHICH PIPE PASSES.
- 15.0 OPERATING INSTRUCTIONS AND RECORD DRAWINGS
 - 15.1 FOR EACH ITEM OF SPECIAL APPARATUS, OPERATING AND MAINTENANCE INSTRUCTIONS SHALL BE PROVIDED IN 3 COPIES FOR THE OWNER'S USE. THESE SHALL INCLUDE:
 1. GENERAL ARRANGEMENT SHOP DRAWINGS.
 2. COMPLETE EXPLANATION OF OPERATING PRINCIPLES AND SEQUENCES.
 3. COMPLETE PART LISTS WITH NUMBERS.
 4. RECOMMEND MAINTENANCE PRACTICES AND PRECAUTIONS.
 5. COMPLETE WIRING AND CONNECTIONS DIAGRAMS.
 - 15.2 OBTAIN TWO SETS OF MECHANICAL DRAWING WHITE PRINTS FROM THE CONTRACTOR AND KEEP A RECORD IN RED PENCIL OF ANY DEVIATION FROM THE DRAWN LOCATION OF PIPES, DUCTS, ETC. ONE SET SHALL BE TURNED TO THE OWNER WITH THE OPERATING INSTRUCTIONS, AND THE OTHER SET SHALL BE HANDED TO THE ENGINEER. ALL BURIED PIPING SHALL BE ADEQUATELY DIMENSIONED FOR FUTURE LOCATION AND DEPTH SHALL BE SHOWN AT MAIN REFERENCE POINTS.
- 17.0 ELECTRICAL WIRING AND CONTROLS
 - 17.1 ALL POWER WIRING FOR MECHANICAL EQUIPMENT SHALL BE DONE BY THE ELECTRICAL DIVISION. THE MECHANICAL TRADE INVOLVED SHALL PROVIDE STARTERS, THERMOSTATS, VALVES, CONTROL TRANSFORMERS, RELAYS, ETC. ALL CONTROL WIRING SHALL BE DONE BY THE MECHANICAL CONTRACTOR, UNLESS OTHERWISE NOTED ELSEWHERE IN THIS SPECIFICATION.
- 18.0 TESTS AND BALANCING
 - 18.1 AIR TEST AND BALANCE SHALL BE PERFORMED BY AN INDEPENDENT AIR BALANCING COMPANY. THE AIR BALANCING COMPANY SHALL BE APPOINTED BY THE CONTRACTOR AND REPORT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
 - 18.2 SCOPE OF WORK
 - 18.2.1 ALL LISTED AIR HANDLING SYSTEMS SHALL BE BALANCED TO WITHIN 5% OF THE NOTED DESIGN AIR VOLUMES AS PER PLANS AND SPECIFICATIONS.
 - 18.2.2 THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING THE H.V.A.C. SYSTEM FULLY OPERATIONAL TWO (2) WEEKS BEFORE TURNOVER TO THE OWNER. THIS WILL INCLUDE THE REQUIREMENT TO INSTALL CLEAN FILTERS IN ALL RELATED H.V.A.C EQUIPMENT BEFORE TIME OF AIR TESTING AND TO MAKE ALL AIR SYSTEMS FULLY OPERATIONAL.
 - 18.2.3 PRELIMINARY PROCEDURE FOR AIR BALANCING
 - 18.2.3.1 BEFORE OPERATING THE SYSTEM, THE FOLLOWING STEPS SHOULD BE PERFORMED:
 1. OBTAIN AS-BUILT DESIGN DRAWINGS AND SPECIFICATIONS AND BECOME THOROUGHLY ACQUAINTED WITH THE DESIGN INTENT.
 2. OBTAIN COPIES OF APPROVED SHOP DRAWINGS OF ALL AIR-HANDLING EQUIPMENT, OUTLETS (SUPPLY, RETURN, AND EXHAUST), AND TEMPERATURE CONTROL DIAGRAMS INCLUDING PERFORMANCE CURVES. COMPARE DESIGN REQUIREMENTS WITH SHOP DRAWING CAPACITIES.
 3. COMPARE DESIGN TO INSTALLED EQUIPMENT AND FIELD INSTALLATION.
 4. WALK THE SYSTEM FROM THE AIR HANDLING EQUIPMENT TO TERMINAL UNITS TO DETERMINE VARIATIONS OF INSTALLATION FROM DESIGN.
 5. CHECK DAMPERS (BOTH VOLUME AND FIRE) FOR CORRECT AND LOCKED POSITION AND TEMPERATURE CONTROL FOR COMPLETENESS OF INSTALLATION BEFORE STARTING FANS.
 6. PREPARE TEST REPORT SHEETS FOR BOTH FANS AND OUTLETS. OBTAIN MANUFACTURER'S OUTLET FACTORS AND RECOMMENDED TESTING PROCEDURE. A SUMMATION OF REQUIRED OUTLET VOLUMES PERMITS A CROSS-CHECKING WITH REQUIRED FAN VOLUMES.
 7. DETERMINE BEST LOCATIONS IN MAIN AND BRANCH DUCTWORK FOR MOST ACCURATE DUCT TRAVERSES.
 8. PLACE ALL OUTLET DAMPERS IN THE FULL OPEN POSITION.
 9. PREPARE SCHEMATIC DIAGRAMS OF SYSTEM AS-BUILT DUCTWORK AND PIPING LAYOUTS TO FACILITATE REPORTING.
 10. CHECK FILTERS FOR CLEANLINESS AND PROPER INSTALLATION (NO AIR BYPASS). IF SPECIFICATIONS REQUIRE, ESTABLISH PROCEDURE TO SIMULATE DIRTY FILTERS.

- EQUIPMENT AND SYSTEM CHECK
 1. PLACE ALL FANS (SUPPLY, RETURN, AND EXHAUST) IN OPERATION AND IMMEDIATELY CHECK THE FOLLOWING ITEMS:
 - A) MOTOR AMPERAGE AND VOLTAGE TO GUARD AGAINST OVERLOAD.
 - B) FAN ROTATION.
 - C) OPERABILITY OF STATIC PRESSURE LIMIT WASH.
 - D) AUTOMATIC DAMPERS FOR PROPER POSITION.
 - E) AIR & WATER RESETS OPERATING TO DELIVER REQUIRED TEMPERATURES.
 - 1.1 TRAVERSE THE MAIN SUPPLY DUCTWORK WHENEVER POSSIBLE. ALL MAIN BRANCHES SHOULD ALSO BE TRAVERSED WHERE DUCT ARRANGEMENT PERMITS. SELECTION OF TRAVERSE POINTS AND METHOD OF TRAVERSE SHOULD FOLLOW:
 - A) TRAVERSE EACH MAIN OR BRANCH AFTER THE LONGEST POSSIBLE RUN FOR THE DUCT INVOLVED.
 - B) FOR TEST HOLE SPACING, REFER TO THE LATEST EDITION OF THE ASHRAE HANDBOOK-FUNDAMENTALS.
 - C) TRAVERSE USING A PITOT TUBE AND MANOMETER WHERE VELOCITIES ARE OVER 600 FPM. BELOW THIS VELOCITY, USE EITHER A MICRO MANOMETER AND PITOT TUBE OR A RECENTLY CALIBRATED THERMAL ANEMOMETER.
 - D) NOTE TEMPERATURE AND BAROMETRIC PRESSURE TO DETERMINE IF THEY NEED TO BE CORRECTED FOR STANDARD AIR QUANTITY. CORRECTIONS ARE NORMALLY INSIGNIFICANT BELOW 2000 FT. ELEVATION; HOWEVER, WHERE ACCURATE RESULTS ARE DESIRABLE, CORRECTIONS ARE JUSTIFIED.
 - E) AFTER ESTABLISHING TOTAL AIR BEING DELIVERED, ADJUST FAN SPEED TO OBTAIN DESIGN AIRFLOW, IF NECESSARY, CHECK POWER & SPEED TO SEE THAT MOTOR POWER AND/OR CRITICAL FAN SPEED HAVE NOT BEEN EXCEEDED.
 - F) PROPORTIONALLY ADJUST BRANCH DAMPERS UNTIL EACH HAS THE PROPER AIR VOLUME.
 - G) WITH ALL DAMPERS AND REGISTERS IN THE SYSTEM OPEN, AND WITH THE SUPPLY, RETURN, AND EXHAUST BLOWERS OPERATING AT OR NEAR DESIGN SPEED, SET MINIMUM OUTDOOR AND RETURN AIR RATIO. IF DUCT TRAVERSE LOCATIONS ARE NOT AVAILABLE, THIS CAN BE DONE BY MEASURING THE MIXTURE TEMPERATURE WITH THE THERMOMETERS IN THE RETURN AIR, OUTDOOR AIR LOUVER, AND FILTER SECTION, AS AN APPROXIMATION, THE TEMPERATURE OF THE MIXTURE MAY BE CALCULATED FROM EQUATION (1). THE GREATER THE TEMPERATURE DIFFERENCE BETWEEN THE HOT AND COLD AIR, THE EASIER IT IS TO GET ACCURATE DAMPER SETTINGS. TAKE THE TEMPERATURE AT MANY POINTS IN A UNIFORM TRAVERSE TO BE SURE THERE IS NO STRATIFICATION. AFTER THE MINIMUM OUTDOOR AIR DAMPER HAS BEEN SET FOR THE PROPER PERCENTAGE OF OUTDOOR AIR, TAKE ANOTHER TRAVERSE OF MIXTURE TEMPERATURES AND INSTALL BAFFLING IF THE VARIATION FROM THE AVERAGE IS MORE THAN 5%. REMEMBER THAT STRATIFIED MIXED AIR TEMPERATURES VARY GREATLY WITH THE OUTDOOR TEMPERATURE IN COLD WEATHER, WHILE RETURN AIR TEMPERATURE HAS ONLY A MINOR EFFECT.
 2. CAREFULLY SET THE SYSTEM FOR BALANCE USING THE FOLLOWING PROCEDURE: ADJUST THE SYSTEM WITH MIXING DAMPERS POSITIONED FOR MINIMUM DESIGN OUTDOOR AIR QUANTITIES USED.
 3. BALANCE THE TERMINAL OUTLETS IN EACH CONTROL ZONE IN PROPORTION TO EACH OTHER. THE FOLLOWING STEPS MAY BE FOLLOWED TO BALANCE THE TERMINALS:
 - A) ONCE THE PRELIMINARY FAN QUANTITY IS SET, PROPORTION THE TERMINAL OUTLET BALANCE FROM THE OUTLETS INTO THE BRANCHES TO THE FAN. CONCENTRATE ON PROPORTIONING THE FLOW RATHER THAN THE ABSOLUTE QUANTITY. AS CHANGES ARE MADE TO THE FAN SETTINGS AND BRANCH DAMPERS, THE OUTLET TERMINAL QUANTITIES WILL BE PROPORTIONALLY CHANGED.
 - B) FOR MAJOR ADJUSTING AND TERMINAL DAMPERS FOR TRIM OR MINOR ADJUSTMENT ONLY, IT MAY BE NECESSARY TO INSTALL ADDITIONAL SUB BRANCH DAMPERS TO DECREASE THE USE OF TERMINAL DAMPERS THAT CREATE OBJECTIONABLE NOISE.
 - C) NORMALLY, SEVERAL PASSES THROUGH THE ENTIRE SYSTEM ARE NECESSARY TO OBTAIN PROPER OUTLET VALUES.
 - D) THE TOTAL TESTED OUTLET AIR QUANTITY COMPARED TO DUCT TRAVERSE AIR QUANTITIES MAY BE AN INDICATOR OF DUCT LEAKAGE.
 - E) WITH TOTAL DESIGN AIR ESTABLISHED IN BRANCHES AND AT OUTLETS, PERFORM THE FOLLOWING: (1) TAKE NEW FAN MOTOR AMPERAGE READINGS (2) FIND STATIC PRESSURE ACROSS THE FAN (3) READ AND RECORD STATIC PRESSURE ACROSS EACH COMPONENT (INTAKE, FILTERS, COILS, AND MIXING DAMPERS) AND (4) TAKE A FINAL DUCT TRAVERSE.
- HEATING, VENTILATING, AND AIR CONDITIONING
 - 1.0 GENERAL
 - 1.1 ALL HEATING, VENTILATING, AND AIR CONDITIONING EQUIPMENT SHALL BE CSA LISTED, BEAR THE CSA SEAL, AND BE INSTALLED IN ACCORDANCE WITH CSA STANDARDS.
 - 1.2 IN ADDITION TO THE PROVISIONS OF SENTENCE (1), ALL FANS SHALL BE LICENSED TO BEAR THE AMCA SEAL.
 - 1.3 ALL DUCTWORK SHALL BE CONSTRUCTED, INSTALLED, & SUPPORTED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS.
 - 1.4 IN ADDITION TO THE PROVISIONS OF SENTENCE (3), ALL RIGID DUCTWORK SHALL BE FABRICATED FROM GALVANIZED STEEL SHEETS IN ACCORDANCE WITH NFPA-90A, UL-C-510, AND ASTM-A525; AND OF THE US SHEET GAUGES AS TABLED BELOW.

SHEET GAUGE	RECTANGULAR DUCT	ROUND DUCT
26	UP TO 12"	UP TO 13"
24	13" - 30"	14" - 22"
22	31" - 54"	23" - 36"
20	55" - 84"	37" - 50"
18	85" & ABOVE	51" - 60"
 - 1.5 IN ADDITION TO THE PROVISIONS OF SENTENCE (3), ALL FLEXIBLE DUCTWORK SHALL BE SUBJECT TO NFPA-90A AND UL-C-510 STANDARDS FOR FLAME SPREAD AND SMOKE DEVELOPED, BE UL-C LISTED, AND BEAR THE UL-C SEAL. ALL CONNECTIONS SHALL USE JOINT TREATMENT TYPE AS DETAILED IN MANUFACTURER'S INSTRUCTIONS. MAXIMUM LENGTH OF FLEXIBLE DUCTWORK SHALL BE 12'-6", USED ONLY IN HORIZONTAL RUNS, AND SHALL NOT PENETRATE FIRE SEPARATIONS.
 - 1.6 DUCTWORK SHALL BE MADE SUBSTANTIALLY AIR TIGHT THROUGHOUT AND SHALL HAVE NO OPENINGS OTHER THAN THOSE REQUIRED FOR PROPER OPERATION AND MAINTENANCE. THE ALLOWABLE LEAKAGE FACTOR SHALL NOT EXCEED 2% THROUGH THE LONGEST DUCT RUN. ALL DUCT JOINTS SHALL BE SEALED WITH JOINT TAPE MEETING THE FLAME RESISTANCE REQUIREMENTS OF UL-C-510.
 - 1.7 ALL AIR HANDLING SYSTEMS SHALL BE TESTED AND BALANCED BY A QUALIFIED TESTING COMPANY TO WITHIN 5% OF THE DESIGN AIR VOLUMES. THREE (3) COPIES OF THE FINAL TESTING AND BALANCING REPORT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE ENGINEER.
 - 1.9 BALANCING DAMPERS SHALL BE INSTALLED AT ALL TAKE-OFFS FROM BRANCH DUCTS, AND ALL BRANCH DUCT CONNECTIONS TO MAIN DUCTS. BALANCING DAMPERS SHALL BE MANUALLY OPERATED OPPOSED BLADE TYPE, SPLITTER TYPE, OR BUTTERFLY TYPE, COMPLETE WITH LOCKING QUADRANT OPERATOR.
 - 1.10 FIRE DAMPERS SHALL BE INSTALLED IN THE PLANE OF PENETRATION OF FIRE SEPARATIONS AND IN ACCORDANCE WITH NFPA-90A AND UL-C-5505, AND SHALL BEAR THE UL-C SEAL. DAMPERS SHALL BE TYPES A OR B, 1.5 HOUR FIRE RATED AND COMPLETE WITH 160 DEG. F REPLACEABLE LINK. A TIGHTLY FITTED ACCESS DOOR SHALL BE INSTALLED FOR EACH FIRE DAMPER TO PROVIDE ACCESS FOR INSPECTION, AND RESETTING OF DAMPER, AND REPLACING OF FUSIBLE LINK. FIRE DAMPERS SHALL BE SUPPORTED INDEPENDENTLY FROM DUCTWORK.
 - 1.11 ALL DUCTWORK SHALL BE INSTALLED TO ALLOW FREEDOM FROM VIBRATION DURING OPERATING CONDITIONS. DUCT HANGERS SHALL BE SUPPORTED FROM STRUCTURAL STEEL AND STRUCTURAL CONCRETE SLAB, BUT NOT FROM ROOF DECK. BENT GALVANIZED IRON HANGERS SHALL BE USED FOR DUCTS UP TO 36" IN WIDTH. FOR WIDER DUCTS, 3" DIAMETER RODS AND 1 1/2" STRUCTURAL ANGLE IRONS SHALL BE USED. DUCT HANGERS SHALL BE SPACED MAXIMUM 8'-6" APART, WHERE DUCTS PASS THROUGH WALLS AND FLOORS, THE SPACE AROUND THE DUCT SHALL BE PACKED AND SEALED WITH FIRE RESISTANT SEALING COMPOUND.
 - 1.12 SPIRAL DUCTWORK SHALL BE SPIRAL HELIX AS MANUFACTURED BY WESBELL HIGH-TEC MANUFACTURING INC.

- HEATING, VENTILATING, AND AIR CONDITIONING
 - INSULATION
 - 1.0 GENERAL
 - 1.1 INSULATION SHALL BE APPLIED ON CLEAN, DRY SURFACES AND ONLY AFTER TESTS AND APPROVALS REQUIRED HAVE BEEN COMPLETED.
 - 1.2 ALL PIPE INSULATION SHALL BE CONTINUOUS THROUGH WALL AND CEILING OPENINGS AND SLEEVES. SUITABLE FIRE STOPS SHALL BE INSTALLED WHERE REQUIRED.
 - 1.3 INSULATION ON ALL COLD SURFACES MUST BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOUR SEAL.
 - 1.4 HANGERS, SUPPORTS, ANCHORS, ETC., THAT ARE SECURED DIRECTLY TO COLD SURFACES, MUST BE ADEQUATELY INSULATED AND VAPOUR SEALED TO PREVENT CONDENSATION.
 - 1.5 ALL SURFACE FINISHES SHALL BE EXTENDED TO PROTECT ALL SURFACES, ENDS, AND RAW EDGES OF INSULATION.
 - 1.6 ALL DOMESTIC HOT AND COLD WATER PIPING SHALL BE INSULATED.
 - 2.0 PLUMBING AND PIPING INSULATION

PIPE INSULATION: GLASS FIBRE INSULATION WITH FACTORY APPLIED JACKET; JOHNS-MANVILLE MICRO-LOK 650 OR APPROVED EQUAL.

JACKET EXPOSED: CANVAS FREE - A VAPOUR BARRIER JACKET, CONSISTING OF A WHITE GLASS FIBRE SURFACE BONDED TO AN ALUMINIZED FILM.

JACKET CONCEALED: ALL PURPOSE - A VAPOUR BARRIER JACKET, CONSISTING OF A HIGH INTENSITY WHITE KRAFT PAPER SURFACE BONDED TO AN ALUMINIZED FILM AND REINFORCED WITH A GLASS FIBRE YARN.

FITTINGS: PRE-MOULDED ONE PIECE PVC INSULATED FITTING COVERS; JOHNS-MANVILLE ZESTON OR APPROVED EQUAL.

- INSULATION
 - A. DOMESTIC COLD WATER:
 - DOMESTIC HOT WATER SUPPLY: DOMESTIC HOT WATER RETURN:

AMBIENT TEMPERATURE	PIPE SIZE	THICKNESS
BELOW 35°F	ALL	1 1/2"
ABOVE 35°F	ALL	1"
 - B. HYDRONIC HEATING SUPPLY:
 - HYDRONIC HEATING RETURN:

PIPE SIZE	THICKNESS
UP TO 2"	1"
2 1/2" TO 4"	1 1/2"
OVER 4"	2"
 - C. AIR CONDITIONING UNIT RUNOUTS AND DRAIN LINES

ALL RUNOUTS FROM RISER OR MAIN TO THE AIR CONDITIONING UNITS AND AIR CONDITIONING UNIT DRAIN LINES SHALL BE INSTALLED WITH FLEXIBLE FOAM, CLOSED CELL STRUCTURE, PLASTIC INSULATION; JOHNS-MANVILLE AEROTEQUE OR APPROVED EQUAL.

PIPE SIZE	THICKNESS
UP TO 3"	1 1/2"
4" AND OVER	2"

- 4.0 EQUIPMENT LIST AND SCHEDULE
 - 4.1 LOUVER, GRILLE, AND DIFFUSER SCHEDULE:

SEE SCHEDULES

- PLUMBING & DRAINAGE
 1. GENERAL CONDITIONS

The General Conditions of the Contract and the General Requirements for Mechanical Work shall form part of the contract governing the work of this Division.
 2. WORK INCLUDED

This Contractor shall do all plumbing and drainage work as shown and specified herein, including, but not limited to hot and cold water piping, vent and sewer.
 3. WORK NOT INCLUDED
 - 3.1 Connection fees for municipal services.
 4. SERVICE CONNECTIONS

Provide complete systems within 5'-0" of building from water and sewer connections. This work shall be carried out in accordance with the requirements and regulations of the local authorities.
 5. DRAINAGE SYSTEMS

Provide complete systems of drainage as noted. All excavation, saw cutting and backfilling by the Contractor.
 6. FLOOR DRAINS
 - (a) All floor drains shall be adjust-to-level cast iron floor drains with double drainage flange and weep holes.
 - (b) Floor drains in finished areas shall be with double drainage flange, weep holes, bottom outlet, deck clamps, and adjustable polished brass 152 mm diameter strainer.
 - (c) All floor drains discharging in sanitary sewer shall have their trap connected to a trap seal primer with vacuum breaker from nearest lavatory or water closet.
 7. PIPE AND FITTINGS FOR PLUMBING
 - (a) All buried soil, storm, and vent pipe shall be PVC or Cast iron soil pipe to CAN/CSA - B70 with cast iron fittings, hub and spigot joints or mechanical joints, and heavy bituminous coating.
 - (b) All unburied soil, waste, drain and vent pipe and fittings inside the building 100mm and larger, shall be cast iron M.I. pattern pipe, factory coated in raw lined oil.
 - (c) All unburied soil, waste, drain and vent pipe and fittings inside the building smaller than 100mm shall be type D.W.V. hard tempered copper.
 - (d) Hot and cold water piping including branches recirculation pipes shall by Type "L" copper with solder joints.
 - (e) Install all drain and soil piping with required fittings of dimensions and in location shown on the drawings. Horizontal piping 100mm and over shall be pitched at 1% grade and smaller piping at 2%.
 - (f) All piping in finished areas exposed to view to be chrome plated.
 - (g) Flush all water and sewer pipes at completion of work.
 - (h) Run all exposed piping between joists or as high as possible.
 8. VALVES FOR PLUMBING
 - (a) Valves shall be manufactured by Emco Ltd., Toyo (Red and White) or approved equal. Watts ball valves are acceptable to 2".
 - (b) Install shut-off valves complete with union or flanged valve at all main branches and at all equipment. Unless otherwise noted, all valves shall be rising stem or ball 862 kPa rating. All branches shall be taken from the top of the mains or at a 45° angle to vertical except that drainage connections shall be taken from the bottom of the piping at each low point.
 - (c) All valves 64 mm and under shall be brass, screwed or solder end. All valves 76mm and over shall be iron body, flanged connection.
 - (d) Drip cocks Emco 10240 shall be provided for all water risers and at all low points of system.
 - (e) Provide shut-off valves on all branches leading to plumbing fixtures on all floors. Valves shall be gate or ball type located behind access doors, under vanity, installed close together for access through one 203mm x 203mm access door.
 9. SUPPORTS FOR PIPING
 - (a) All horizontal piping shall be hung or supported at the maximum intervals of 1.8 M for 25mm pipe, 2.4m for pipe up to 76mm. Where pipes are grouped, spacing must satisfy the smallest pipes.
 - (b) For all hung piping use Clevis hangers with threaded rods. Where hangers are installed for copper or brass pipe, they shall be wrapped with electrolytic action isolation tape. Perforated strap hanger will not be accepted.
 - (c) All vertical piping, including soil, waste, vent stacks and rain water leaders, shall be supported at each floor and column. This shall consist of split wrought iron "U" clamp, bolted around the pipe and anchored to the floor or column.
 - (d) Where structural members do not exist, provide structural steel of sufficient strength fixed to the structural members to support the hangers.
 10. EXPANSION OF PIPES

This Contractor shall make provision for the expansion and the contraction of the pipes installed under this division by means of pipe loops. If the use of pipe loops appears to be impracticable, expansion joints may be installed after consultation with and obtaining the written approval of the Engineer.
 11. JOINTS
 - (a) Solder joints in copper pipe with 95% tin and 5% antimony solder for water piping and 50/50 for drains. Ream all pipes after cutting.
 - (b) Make joints in tile or concrete pipe with rubber gaskets or with approved couplings for the type of material used.
 12. VENTS
 - (a) Provide every fixture with its own trap and vent. These vents shall be in accordance with the Provincial Plumbing Code and/or local by-laws having jurisdiction.
 13. CLEANOUTS

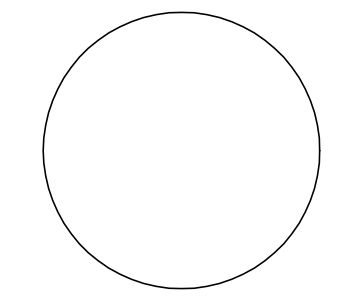
Supply and install cleanouts as per current Plumbing Code. Cleanouts shall be cast iron ferrule with a raised rough bronze plug, recessed where located in floors.
 14. TRAPS AND STRAINERS

Every fixture and floor drain shall have an approved trap, and every fixture, except water closet, shall have an approved strainer. All traps above ground shall have screw cleanout for union connection of chrome plated exposed traps.
 15. DIELECTRIC COUPLING
 - (a) Provide dielectric couplings where pipes of dissimilar metals are joined - pipe 2"~ and under : isolating union - pipe 2"~ and over : isolating flanges.
 16. THERMAL INSULATION
 - (a) General

Covering and insulation work shall be applied by a sub-contractor acceptable to the Engineer, and the work shall conform to all requirements of Authorities having jurisdiction, ASHRAE 90.1.
 - (b)
 - (1) Cover all cold water piping, valves, fittings, etc. with dual temperature glass fibre insulation with fire resistant vapour barrier jacket and Benjamin Foster No. 819 fireproof adhesive at all joints. But joints shall be wrapped with 4" wide vapour barrier strips of same material as jacket. The insulation shall pass unbroken through all pipe sleeves. No open end insulation is allowed. Thickness of insulation shall be 1".
 - (2) Unless otherwise noted insulation of water meter shall be same as cold water fittings, except double thickness (2").
 - (3) Insulate above ground stormwater sewer (including horizontal and vertical runs) same as cold water piping.
 - (4) All drains and lines serving air-conditioning equipment shall be insulated the same as cold water piping.
 - (5) Insulate plumbing vents to 3'-0" from roof same as item 1 above.
 - (6) Domestic hot water piping shall be insulated similarly to the above, except that vapour barrier is not required.
 - (7) Apply in exposed area, ULC listed plain weave, cotton fabric 220g/sq.m as canvas protection.
 - (8) All piping shall be labelled.
 17. TEST
 - (a) All drainage and vent piping shall be subject to a hydrostatic test of 3M head of water for thirty minutes. All leaks shall be corrected and the line retested. Submit report to Engineer.
 - (b) All piping subject to pressure shall be subject to a hydrostatic test at 50 p.s.i. greater than maximum operating pressure but not less than 150 p.s.i. for two hours. All leaks shall be corrected and the line retested. Submit report to Engineer.

Riser ENGINEERING
 115 Apple Creek Blvd. - Unit 208
 Markham, Ontario, L3R 6C9, Canada

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SEAL: 

NO.	ISSUED FOR	BY	DATE
2.	ISSUED FOR TENDER	K/N	10/04/26
1.	ISSUED FOR PERMIT	K/N	19/02/26
NO.	ISSUED FOR	BY	DATE

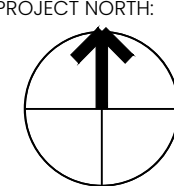
REVISION TABLE

PROJECT NAME:
DUNDAS VALLEY SECONDARY SCHOOL

PROJECT:
UNIVERSAL WASHROOM RENOVATION

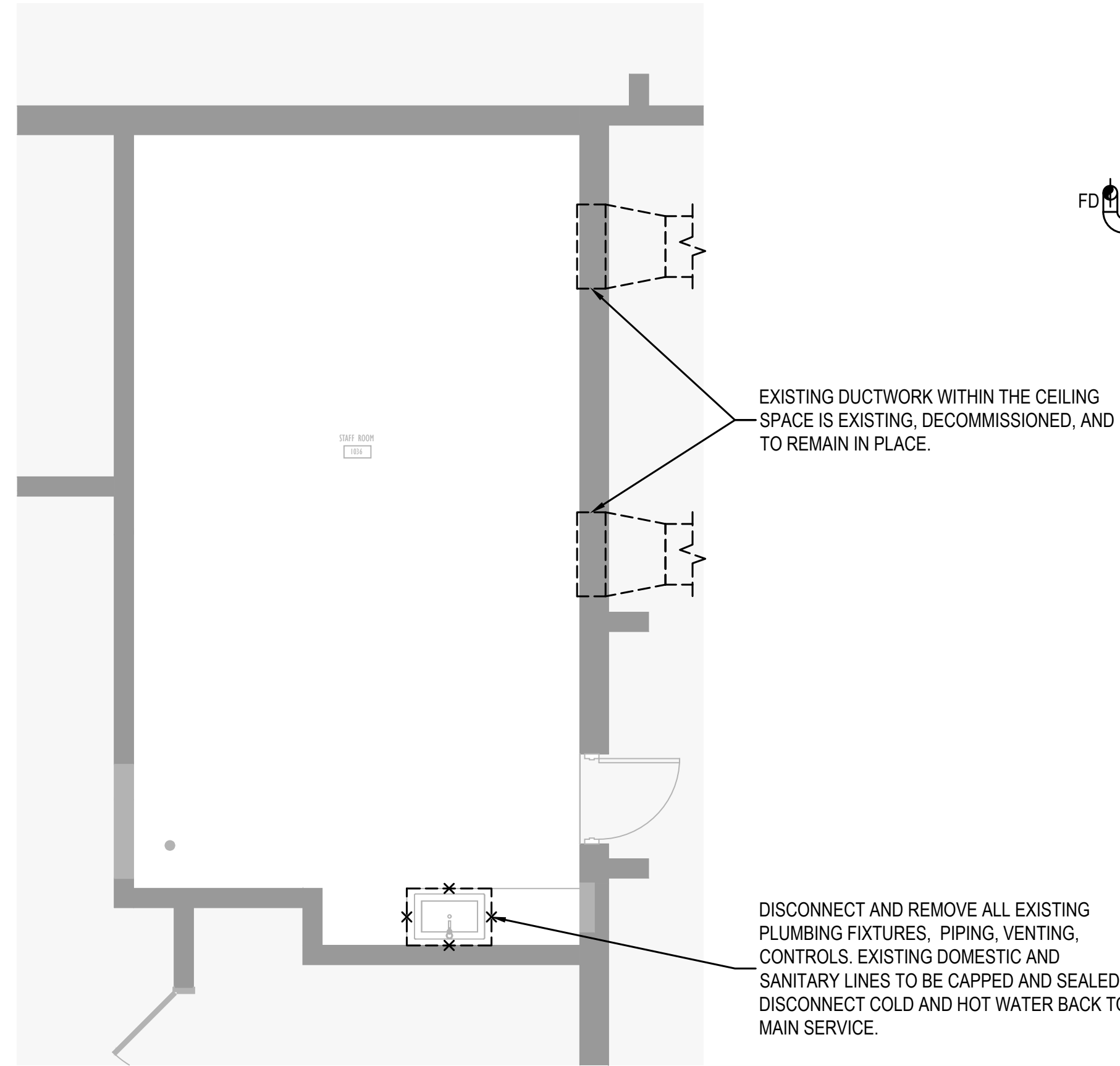
310 GOVERNORS ROAD, DUNDAS, ON.

DRAWING TITLE:
SPECIFICATIONS

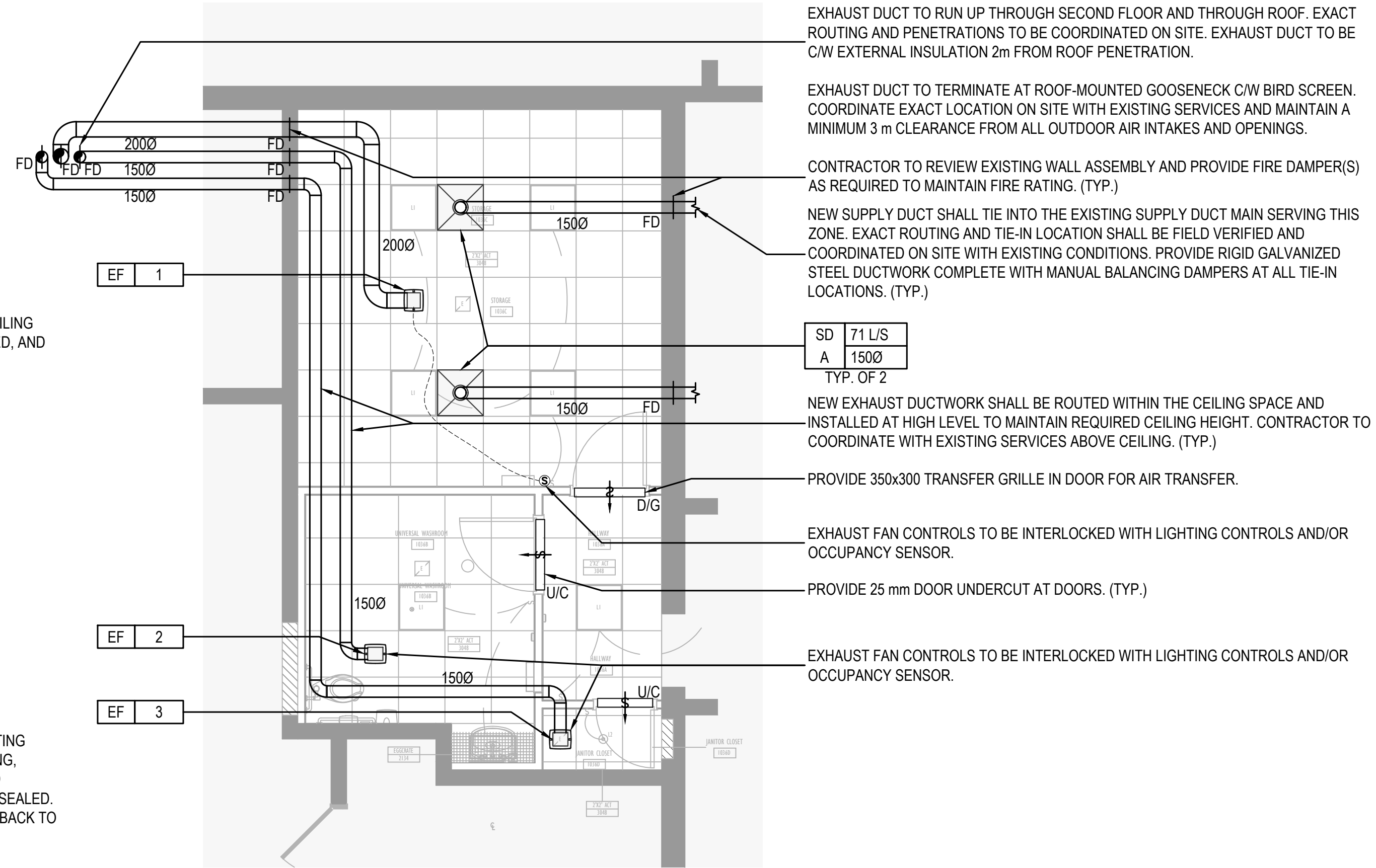
PROJECT NO: 25119	DATE: JAN. 2026	PROJECT NORTH: 
DRAWN BY: J.N.	CHECK BY: K/N/RJ	
SCALE: 1:50	PAPER SIZE: ARCH-D (24x36)	
DRAWING NUMBER: M - 02		

GENERAL NOTES

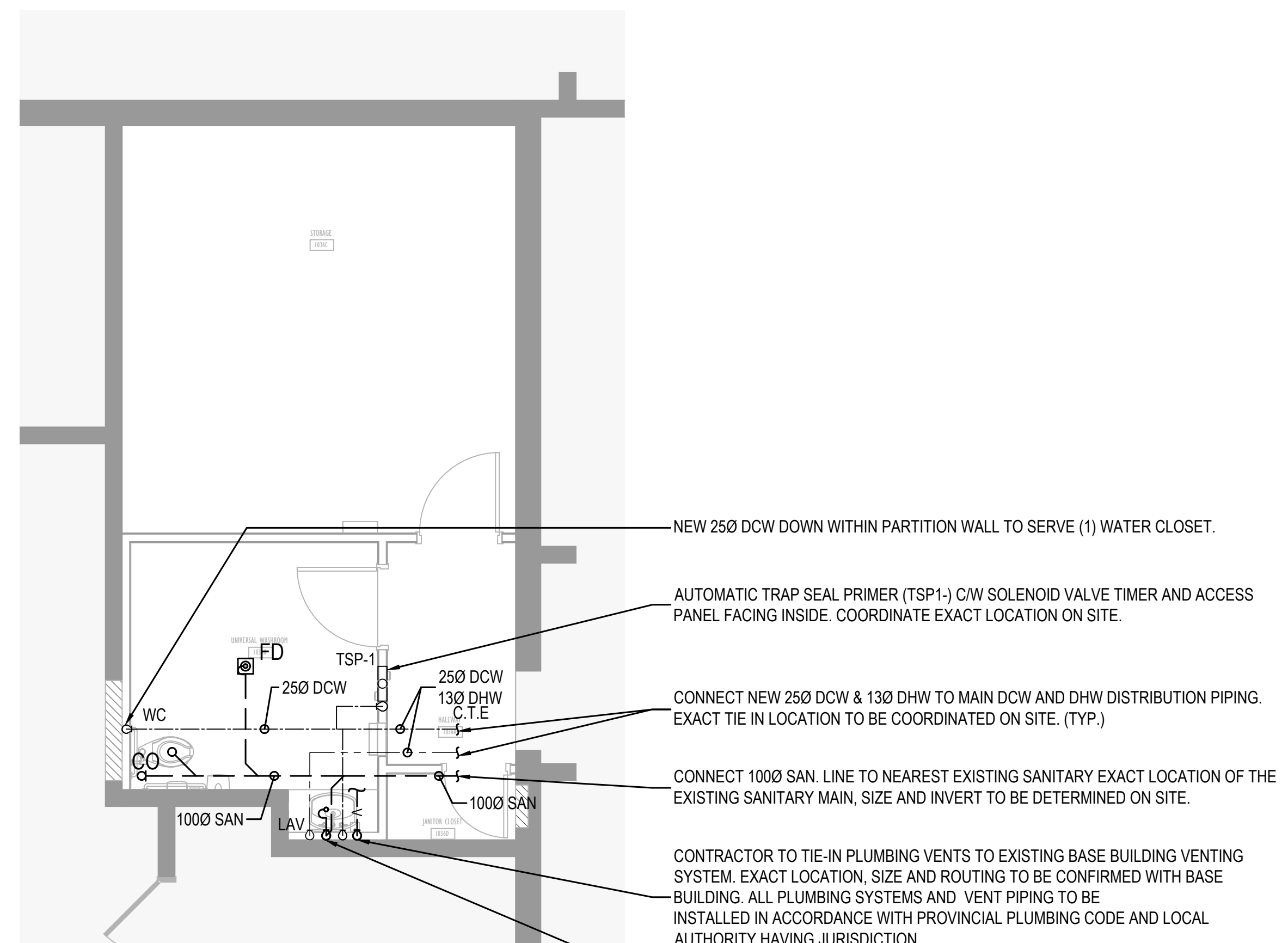
- ALL WORK TO CONFORM TO BASE BUILDING STANDARDS & SPECIFICATIONS.
- EXISTING SERVICES SHOWN ON DRAWINGS ARE BASED ON AVAILABLE DRAWINGS FROM BUILDING MANAGEMENT AND ARE APPROXIMATE. CONTRACTOR TO VERIFY ALL EXISTING SERVICES ON SITE AND MAKE ALL NECESSARY ADJUSTMENTS TO COMPLETE THE WORK AS OUTLINED IN THE CURRENT SCOPE. NO EXTRAS SHALL BE CHARGED FOR ANY ADDITIONAL WORK.
- COORDINATE WITH OWNER ALL WORK INCLUDING ANY SLAB CUTTING, CORING AND X-RAY.
- ALL SERVICE PENETRATIONS REQUIRED SHALL BE SCANNED/X-RAYED AS REQUIRED. THE BASE BUILDING STRUCTURAL ENGINEER SHALL BE RETAINED TO REVIEW AND APPROVE THE RESULTS PRIOR TO CUTTING OR CORING.
- CONTRACTOR SHALL COORDINATE ARCHITECTURAL, STRUCTURAL, LIGHTING, HVAC, SPRINKLER DRAWINGS TO AVOID AREAS OF CONFLICT AND MAINTAIN CEILING HEIGHTS.
- CONTRACTOR SHALL REPORT ALL DISCREPANCIES AND AREAS OF CONFLICT TO THE ENGINEER PRIOR TO BEGINNING WORK.
- ALL EQUIPMENT TO BE INSTALLED PER SPECIFICATION AND MANUFACTURER'S INSTALLATION MANUAL.
- ALL FLOOR DRAIN, FUNNEL FLOOR DRAIN, HUB DRAINS, RUNNING TRAPS SHALL BE PROVIDED WITH TRAP PRIMING DEVICE(S) AS REQUIRED.
- INSTALL SHUT-OFF VALVES FOR EACH PLUMBING FIXTURE.
- CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY INSPECTIONS AS REQUIRED PER OBC.
- MAINTAIN MINIMUM CLEARANCE AS REQUIRED FROM OTHER SERVICES.
- MECHANICAL CONTRACTOR SHOULD LAYOUT, SIZE AND INSTALL SANITARY VENTING SYSTEM AS PER ONTARIO BUILDING CODE. CONNECT VENTING SYSTEM FROM NEW SYSTEM TO EXISTING VENT OR INSTALL NEW VENT AS NECESSARY.
- IT IS PLUMBING CONTRACTOR RESPONSIBILITY TO SUPPLY AND INSTALL DCW, DHW & DRAIN LINES TO THE BAR AND THE KITCHEN ISLAND EQUIPMENTS AS PER MANUFACTURER REQUIREMENTS. COORDINATE ALL WORK WITH FINAL EQUIPMENT LAYOUT.
- EXISTING STORM DRAINAGE SYSTEM TO REMAIN AS IS UNLESS OTHERWISE NOTED.
- PIPING SHALL RUN WITHIN INTERIOR PARTITION WALLS. NO PIPES SHALL RUN THROUGH DEMISING WALLS.
- INSTALL NECESSARY BACK FLOW PREVENTER DEVICE FOR WATER SERVICE IN ACCORDANCE WITH THE CSA REQUIREMENT OR LOCAL AUTHORITY IN JURISDICTION.
- ALL SANITARY AND STORM PIPING 75MM OR LESS SHALL BE SLOPED AT MINIMUM 2%. ALL SANITARY AND STORM PIPING 100MM OR MORE SHALL BE SLOPED AT MINIMUM 1% UNLESS OTHERWISE NOTED.
- ALL MATERIALS WITHIN THE CEILING PLENUM SHALL MEET THE OBC REQUIREMENTS FOR FLAME-SPREAD RATING AND SMOKE DEVELOPED CLASSIFICATION.
- MAINTAIN FIRE RATING AT WHERE APPLICABLE FOR ALL PIPING PENETRATIONS. PROVIDE FIRE STOPPING AND WATERPROOFING IN ALL FLOOR SLEEVES. (TYP.)
- ALL METERING EQUIPMENTS TO BE INSTALLED WITHIN TENANT SPACE & MATCH BASE BUILDING AND TIED INTO BASE BUILDING BAS, IF REQUIRED.
- PLUMBING AND DRAINAGE CONTRACTOR SHALL ROUGH IN AND MAKE FINAL CONNECTION TO EQUIPMENT IN TWO STAGES.
STAGE ONE - ROUGH-IN 6" ABOVE FINISHED FLOOR OR 4" THROUGH WALL
STAGE TWO - EXTEND SERVICES TO ALL POINTS OF FINAL CONNECTIONS AFTER EQUIPMENT IS IN PLACE (PROVIDE ALL NECESSARY FINAL CONNECTION ADAPTORS, ETC.)
- ABOVE GROUND SANITARY AND VENT PIPING: COPPER TUBE AND FITTINGS TYPE DWV TO: ASTM B306. CAST IRON PIPING AND FITTINGS TO CAN/CSA-B70. USAGE OF PVC PIPES IS ACCEPTABLE WHERE PERMITTED BY BASE BUILDING (EXCEPT IN RETURN AIR PLENUM).



1 PARTIAL GROUND FLOOR PLAN - EXISTING & DEMOLITION LAYOUT
M-03 SCALE: 1:50



1 PARTIAL GROUND FLOOR PLAN - PROPOSED HVAC LAYOUT
M-03 SCALE: 1:50



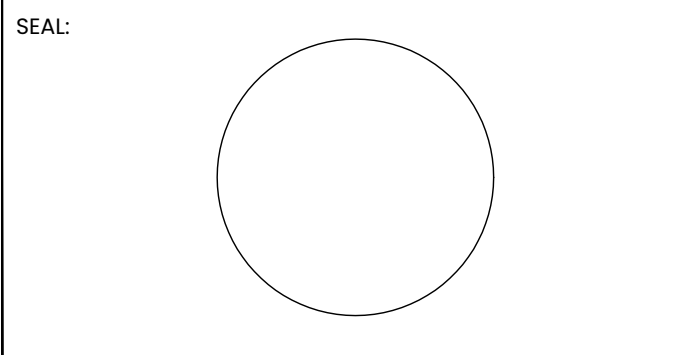
1 PARTIAL GROUND FLOOR PLAN - PROPOSED PD LAYOUT
M-03 SCALE: 1:50

PLUMBING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MINIMUM CONNECTION SIZE				REMARKS
		DCW	DHW	WASTE	VENT	
WC	WATER CLOSET - BARRIER FREE	1 in.	---	3 in.	2 in.	BARRIER FREE
LAV	LAVATORY BARRIER FREE	1/2 in.	1/2 in.	1 1/2 in.	1 1/4 in.	BARRIER FREE
CO	CLEANOUT	---	---	---	---	---
FD	FLOOR DRAIN	1/2 in.	---	2 in.	1 1/2 in.	2" TRAP c/w TRAP PRIMER
TSP-1	PRIMER	1/2 in.	---	---	---	---

REFER TO M-04 FOR PLUMBING FIXTURE SPEC.
ALL PLUMBING FIXTURE SPEC. TO BE REVIEW AND APPROVED ARCHITECT/OWNER AND OWNER PRIOR TO PROCUREMENT AND INSTALLATION.

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NO.	ISSUED FOR:	BY:	DATE:
2.	ISSUED FOR TENDER	K.N	10/04/26
1.	ISSUED FOR PERMIT	K.N	19/02/26
	ISSUED FOR:		

REVISION TABLE

PROJECT NAME:
DUNDAS VALLEY SECONDARY SCHOOL

PROJECT:
UNIVERSAL WASHROOM RENOVATION

310 GOVERNORS ROAD,
DUNDAS, ON.

DRAWING TITLE:
MECHANICAL LAYOUT

PROJECT NO: 25119	DATE: JAN. 2026	PROJECT NORTH:
DRAWN BY: J.N.	CHECK BY: K.N/R.J.	
SCALE: 1:50	PAPER SIZE: ARCH-D (24x36)	

DRAWING NUMBER:
M - 03

WC-1 (WC.000.45774)

Z5665-BWL1-AM
 Vitreous china elongated bowl with SmartSilver™ surface (antimicrobial finish), 425 mm (16 3/4 in) in height, siphon jet action, 54 mm (2 1/8 in) completely glazed trapway, bolt caps, 38 mm (1 1/2 in) top spud connection, 6 L (1.6 US gal) or 4.8 L (1.28 US gal) per flush, depending on the flush valve selected.
Department's notes : See flushing devices article 2.6.1.6 in national plumbing code, 6.0 lpf maximum water usage per flush cycle. In the case of washroom renovation, if the existing bowls are kept, ensure that they are compatible with the new water consumption of the selected flush valve. Replacing existing 13 L / flush lavatories for 4.8 L / flush or less can be an issue if the original plumbing is retained. A thorough inspection of the current conditions as well as a camera test of the drain piping is highly recommended. A washroom containing an unit equipped with an automatic flushing device must have a floor drain article 3.7.2.7 (NBC 2015) and 3.7.2.6 (NBC 2020)

ZER6000AV-1-TM-HET-HW
 Hardwired operated exposed quiet flush valve for water closets, TPE chloramine resistant dual seal diaphragm with triple filter by-pass, ADA compliant oscillating handle, control stop with vandal resistant stop cap, cast wall flange, vacuum breaker tube with water supply 406 mm (16 in) above closet bowl, polished chrome finish, dual action of the ceramic disc cartridge and motor gear-driven operation, top mount automatic detection with mechanical manual override button, polycarbonate high resistant casing with a metallic chrome cover, luminating action with low frequency sonar, 4.8 L (1.28 US gal) per flush. Must be installed with electrical power converter 120 VAC/6 VDC (P6000-HW6).
Product's notes : Requires a min. dynamic pressure of 25 psi.

P6000-HW6
 Hardwired power converter 120VAC/7.6 VDC, 2 amp., capable of supplying for 8 faucets or 8 flush valves or 8 faucets/ flush valves combined. When used with W1 connected products, capable of supplying for 6 faucets or 6 flush valves or 6 faucets/ flush valves combined.

Z5956SS-AM
 Solid plastic elongated seat for super-intensive use with anti-microbial protection, open front, coverless, molded bumper guard, stainless steel check hinges and fasteners. (White).

3777-T1-8
 Stainless steel tubular backrest of 32 mm (1 1/4 in), satin finish, recessed fasteners, phenolic composite backplate 102 mm (4 in) in height x 254 mm (10 in) in length, antique white. *A* dimension of 203 mm (8 in).

Grab bar supplied by architect
 Stainless steel grab bars supplied by architect.

PHOTO À VENIR
 IMAGE TO COME

L.000.52914 (L.000.52914)

SLV01-B-DEK-CS
 Collective for 1 user wall hung lavatory system, 762 x 546 mm (30 x 21 1/2 in), «Solidsan®» synthetic material composite, complete with satin finish stainless steel short skirt, flexible hose and 1 1/2 in. chrome center drain. Standard Colors: [-AB Adobe Brown] [-AW Ash White] [-BF Black Forest] [-CG Concrete Grey] [-DB Designer Black] [-ES Egyptian Sand] [-MB Midnight Blue] [-MG Misty Grey] [-PB Pearl Black] [-PW Polar White] [-SA Sandstone] [-TG Twilight Grey]. Designer Colors: [-AC Amalfi Coast] [-BB Belgian Blue] [-CA Carrara Grey] [-CC -Cebolla Creek] [-CG Country Green] [-CP Caledonia Pearl] [-PC Portofina Creme] [-PS Paris Stone] [-RS Red Sea Coral] [-SC San Cristobal Silver] [-SR Sydney Rock Oyster] [-UB Ubatuba Brown] [-VM Vienna Mist]
For information or pricing for this product, contact Cardinal Sales at 905 568-1419 or by email at quotes@cardinalsales.ca
Department's notes : According to article 2.2.10.6. of the new 2020 national plumbing code, the maximum water flow allowed for private washroom will be 5.7 Lpm, public use 1.9 Lpm. In addition, sinks in public toilets must be fitted with a device that can automatically stop the flow of water when the sink is not in use. Definition of the code for public washrooms (where access is intended for more than one person of same family). Definition of the code for public washrooms (where access is intended for more than one person not of same family).

ZG6953-CWB-N-SSH
 Hardwired electronic sensor faucet with ceramic disc cartridge and motor gear-driven operation, resisting to disinfection (180°F), 6x AA battery back-up, bluetooth, 1.9 L/min. (0.5 usgpm) vandal resistant laminar spout outlet, single hole installation, polished chrome finish, infrared convergence type proximity sensor, on-demand activation with a 30-second run time, in-line filter, premixed water supply. Supplied with 85 in cable wire (CWB).
Standards: ASME A112.18.1/CSA B125.1

ZH8824XL-LKQ-PC/Z8952-58 (2)
 Lavatory extra heavy duty quarter turn stops, low lead, DN 1/2 in compression x 3/8 in compression, loose key, flanges chrome plated finish.

P6000-HW6
 Hardwired power converter 120VAC/7.6 VDC, 2 amp., capable of supplying for 8 faucets or 8 flush valves or 8 faucets/ flush valves combined. When used with W1 connected products, capable of supplying for 6 faucets or 6 flush valves or 6 faucets/ flush valves combined.

270-LF
Warning! Minimum pressure required for proper operation of the mixer is 35 psi. This does not take into account the minimum pressure required from the device supplied and the loss through the mixer.
 Thermostatic point of use mixing valve, 1/2" inlets, 1/2" outlet, (MIPS connections), bronze body, locked temperature adjustment cap (vandal resistant). Copper encapsulated thermostat assembly with polymer thermoplastic shuttle, stainless steel springs, Buna-N O-rings. Integral check valves on hot and cold inlets. Minimum flow: 0.95 l/min (0.25 usgpm), maximum pressure: 125 PSI (8.6 BAR). Maximum hot water temperature: 93 °C (200 °F). Option DT - Dial thermometer
Product's notes : Note : Pressure regulators will be required if pressure differential between hot and cold water is greater than 10%.
Standards: CSA B125-70, ASSE 1017-1070-2015, NSF/ANSI 61-9*

P trap included
 P-trap included

Z1225/SLV01
 Concealed wall hung carrier, extra-heavy duty top and bottom adjustable plates, steel uprights with welded feet, mounting fastener.

CO.000.3855 (CO.000.3855)

ZXN1612-SP-VP
 Cast iron floor cleanout with a 165 mm (6 1/2") in diam. body with a 102 mm (4") in diam. threaded throat to receive adjustable 130 mm (5 1/8") in diam. nickel bronze strainer combined with a slip proof extra heavy duty traffic cover. ABS threaded seal plug inside body. Vandal proof screws.

FD-1 (FD.000.49485)

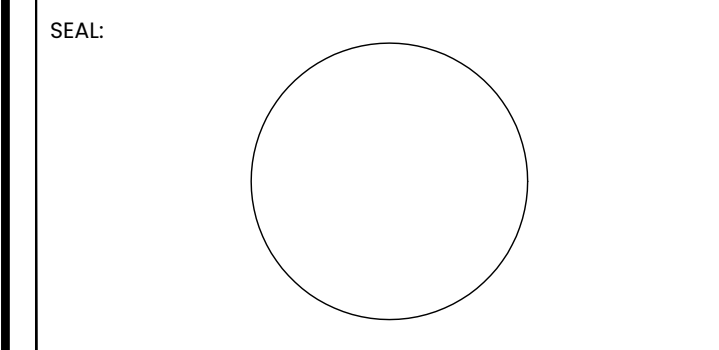
ZN415-Y5-P-Y
 Cast iron floor drain for membrane with a 213 mm (8 3/8") in diam., reversible clamp collar with lateral openings on top body with a 102 mm (4") in diam. threaded throat to receive adjustable 127 mm (5") in diam. adjustable round strainer combined with 127 mm (5 x 5") square polished nickel bronze regular traffic grate. Trap primer membrane. Sediment bucket.

TSP-1 (TP.000.26228)

695-ES05
 Electronic trap primer with multiple outlets 5. The system injects 59 ml (2 ounces) of water in each drain every 24 hours or as per a factory set program. The system will include a solenoid actuating device with filter, DN 1/2 in copper sweat inlet connection, brass atmospheric vacuum breaker, 5 outlet copper distributing tubing, surface-mount (suffix -S) galvanized steel box, cover supplied. Electrical supply of 120VAC, power consumption is 9.2 watts at 60Hz (maximum distance of 300 ft). Operating pressure 20 psi - 60 psi, Operating temperature 35°F - 140°F (1°C - 60°C).
Product's notes : According to CSA B64, a trap primer is considered high risk hazard. A high risk backflow preventer will be required upstream.

971-1414
 Multi-purpose universal access door, 356 x 356 mm (14 x 14 in), designed for flush installation in drywall, block or tile, wats and ceilings. Satin coat steel-primed gray finish. 18 gauge. Concealed hinge.

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2.	ISSUED FOR TENDER	K.N	10/04/26
1.	ISSUED FOR PERMIT	K.N	19/02/26
	ISSUED FOR:		

REVISION TABLE

PROJECT NAME:
DUNDAS VALLEY SECONDARY SCHOOL

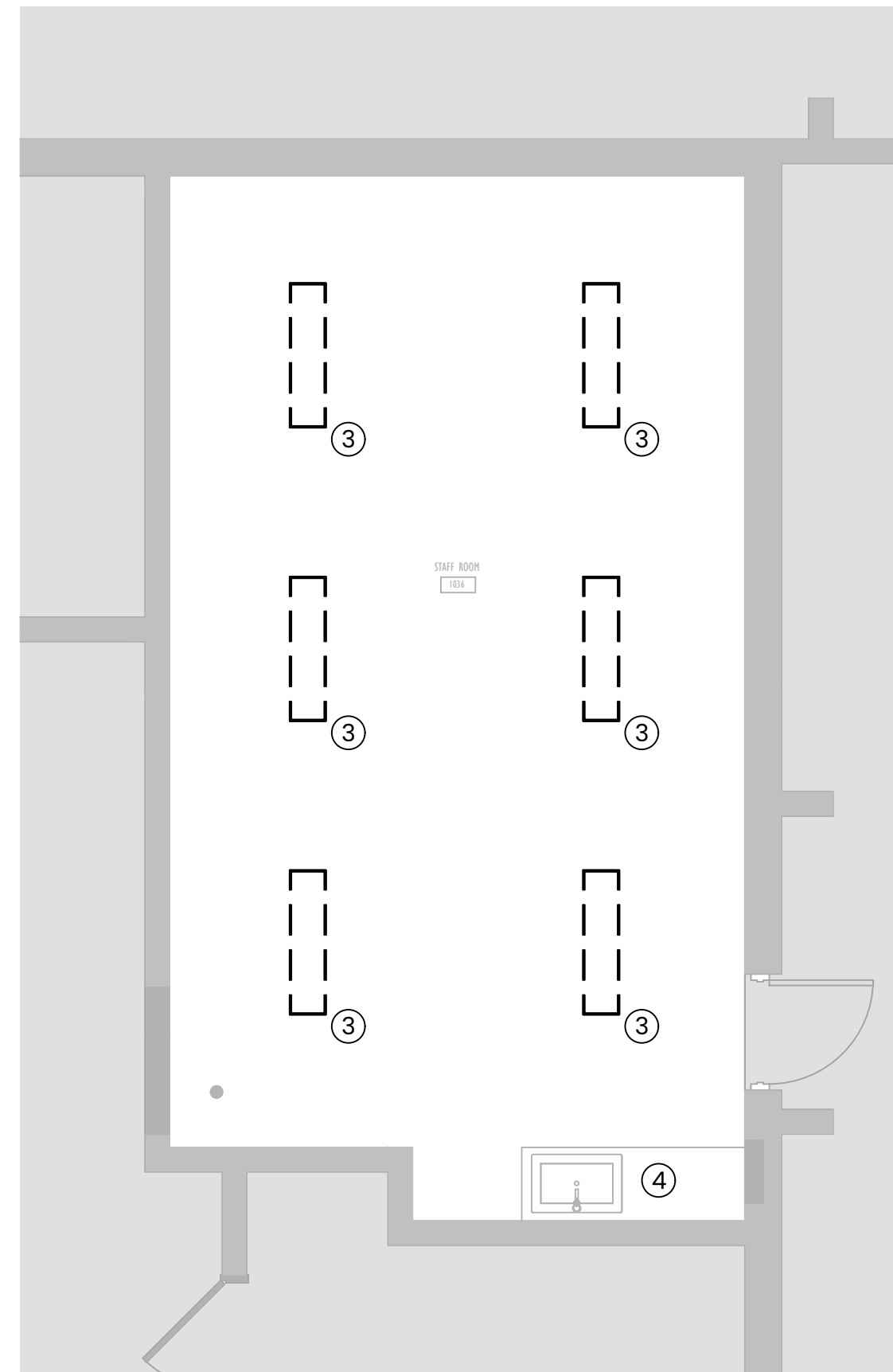
PROJECT:
UNIVERSAL WASHROOM RENOVATION

310 GOVERNORS ROAD.
 DUNDAS, ON.

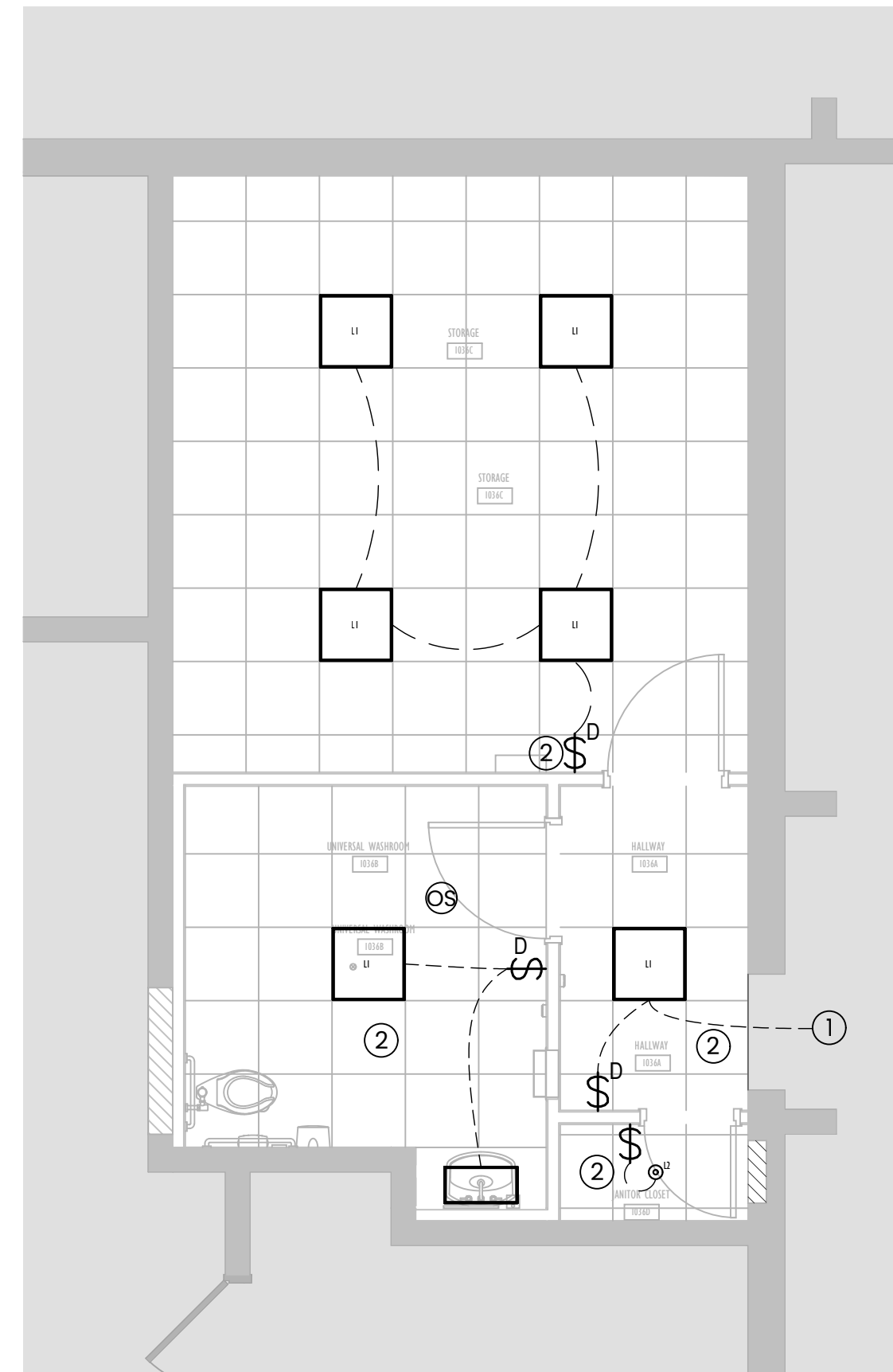
DRAWING TITLE:
PLUMBING FIXTURES

PROJECT NO: 25119	DATE: JAN. 2026	PROJECT NORTH:
DRAWN BY: J.N.	CHECK BY: K.N/R.J.	
SCALE: NTS	PAPER SIZE ARCH-D (24x36)	

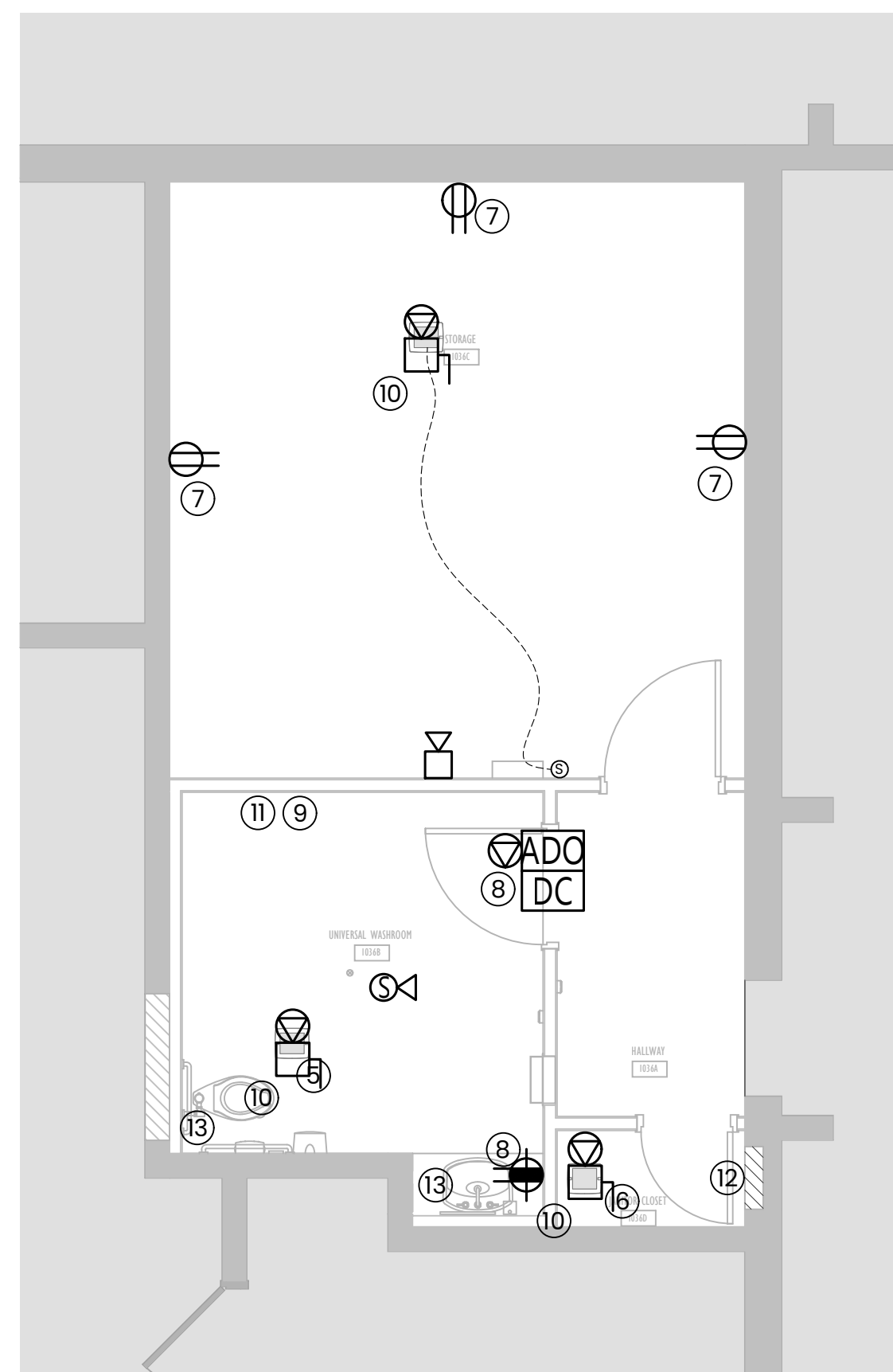
DRAWING NUMBER:
M - 04



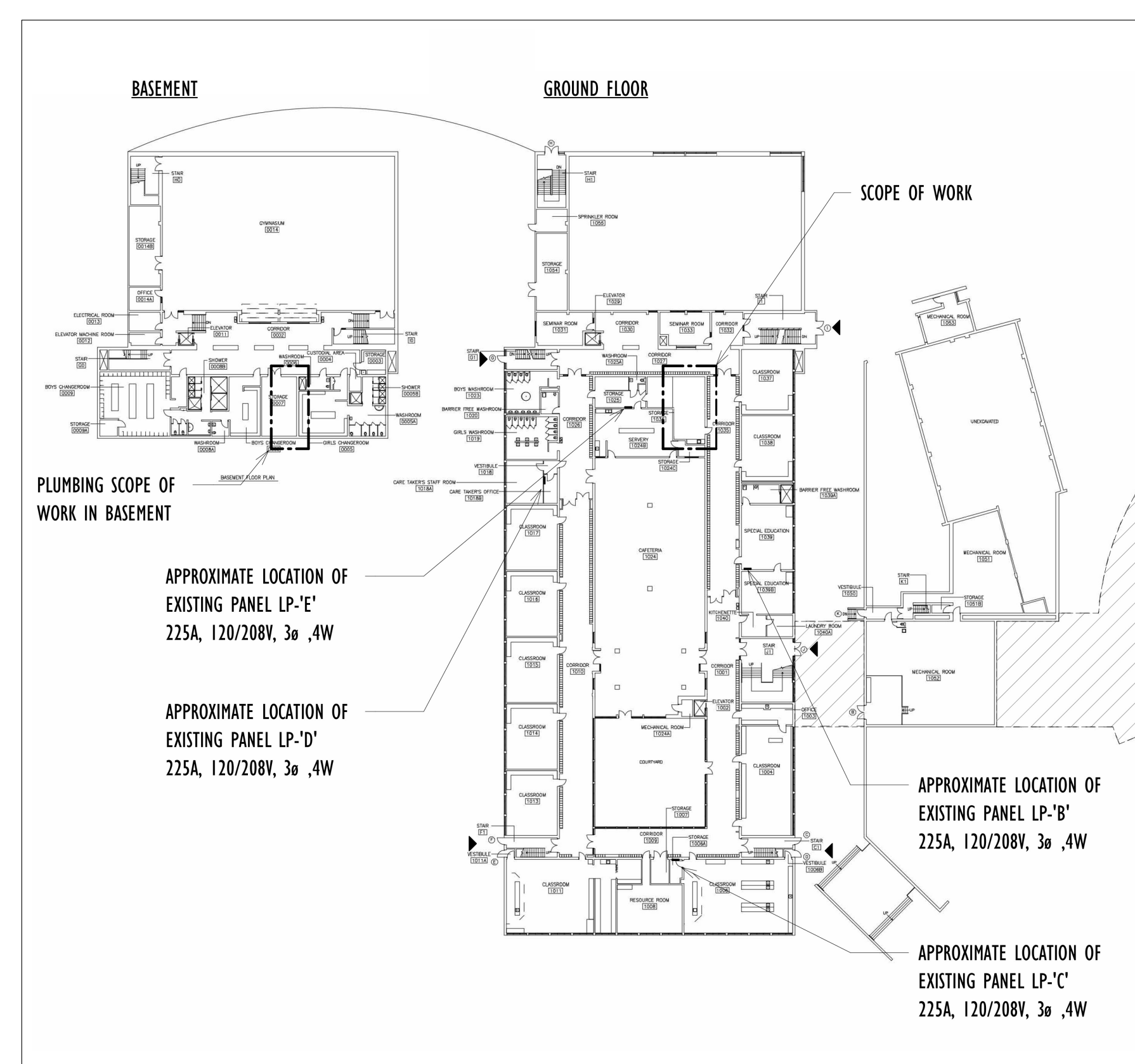
1 PARTIAL GROUND FLOOR PLAN - EXISTING & DEMOLITION LAYOUT
E-02 SCALE: 1:50



2 PARTIAL GROUND FLOOR PLAN - PROPOSED LIGHTING LAYOUT
E-02 SCALE: 1:50



3 PARTIAL GROUND FLOOR PLAN - PROPOSED POWER LAYOUT
E-02 SCALE: 1:50



4 KEY PLAN FOR PANEL LOCATION - REFER TO REVISED ARCHITECTURAL DRAWING FOR DETAIL
E-02 SCALE: NTS

GENERAL NOTES:

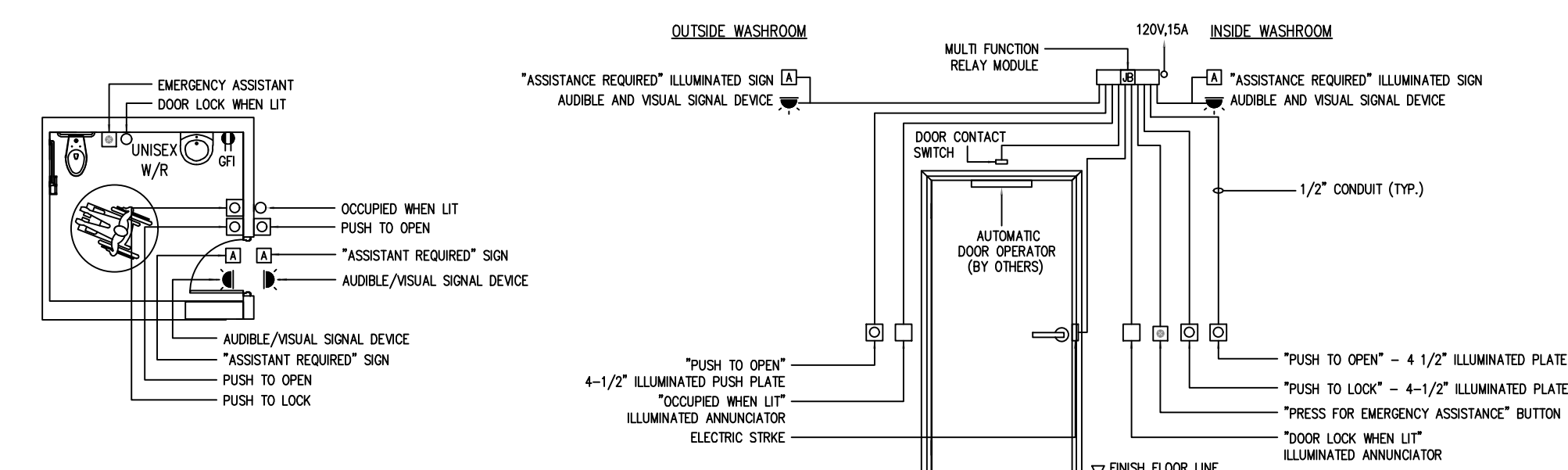
1. ALL DRAWING DOCUMENTS LISTED IN THIS SET ARE FOR INFORMATION PURPOSES ONLY UNTIL ISSUED FOR PERMIT AND/OR CONSTRUCTION.
2. THESE DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS NOTED OTHERWISE.
3. ALL AREAS AND DIMENSIONS TO BE SITE VERIFIED PRIOR TO ANY WORK.
4. CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
5. ALL WORK SHALL MEET AND/OR EXCEED BASE BUILDING STANDARD.
6. THE GENERAL CONTRACTOR TO SITE VERIFY AND RE-USE EXISTING ELECTRICAL OUTLETS THAT ARE WITHIN CLOSE PROXIMITY OF PROPOSED AS SHOWN.
7. ELECTRICAL CONTRACTOR SHALL REFER TO INTERIOR DESIGNER DRAWING FOR ALL DIMENSIONS AND LOCATION INFORMATION AND COMPLY WITH ALL APPLICABLE NOTES.
8. UNLESS OTHERWISE NOTED, ALL OUTLETS TO BE MOUNTED AT 12" O.C. AFF
9. IF DEMISING WALL IS CONCRETE BLOCK, CONTRACTOR TO FURR OUT WALL AS NECESSARY FOR ELECTRICAL REQUIREMENTS
10. UNLESS OTHERWISE INDICATED EXACT LOCATIONS FOR ALL ELECTRICAL WORK TO BE DETERMINED ON SITE.
11. ALL FIRE ALARM DEVICES INSTALLED OR RELOCATED AS A RESULT OF THIS PROJECT SHALL BE VERIFIED BY CERTIFIED BASE BUILDING FIRE ALARM VERIFICATION COMPANY.
12. GENERAL CONTRACTOR SHALL COORDINATE GANG BOX AND JUNCTION BOX LOCATIONS AND REQUIREMENTS WITH FIXTURE/MILLWORK VENDOR PRIOR TO INSTALLATION.
13. EXISTING OUTLETS TO BE REUSED IF THEY FALL IN CLOSE PROXIMITY TO NEW OUTLETS SHOWN ON PLAN - REWIRE TO NEW POWER SOURCE AS REQUIRED.
14. ALL FIRE ALARM DEVICES AND SYSTEM FOUND IN THIS PREMISES SHALL BE CONNECTED TO THE BASE BUILDING FIRE ALARM CONTROL PANEL (FACP). ADD NEW ZONE AT FACP IF REQUIRED.
15. CONTRACTOR TO VERIFY ONSITE BREAKER, CONDUIT, WIRING CONDITION, REPLACE IF NECESSARY.
16. CONTRACTOR TO VERIFY ALL EXISTING SERVICE.
17. CONTRACTOR TO PROVIDE OPENINGS IN DRYWALL CEILING TO ACCOMMODATE EXIT LIGHTS, ACCESS PANELS, RECESSED DOWN LIGHTS, AIR DIFFUSERS. CONTRACTOR TO REFER TO REFLECTED CEILING PLAN AND ENGINEERING DRAWINGS AND SPECIFICATIONS.
18. LIGHT FIXTURES AND SWITCHES TO BE LOCATED IN ACCORDANCE WITH DESIGNER DRAWINGS. REPORT DISCREPANCIES TO DESIGNER PRIOR TO INSTALLATION.
19. UPON COMPLETION OF CONSTRUCTION, CONTRACTOR TO RETURN UNUSED BASE BUILDING FIXTURES TO BUILDING LANDLORD.
20. EXISTING CEILING AND LIGHTS TO REMAIN. REPAIR AND/OR REPLACE ANY DAMAGED T-BAR AND CEILING TILES. REPLACE ANY BROKEN LIGHT FIXTURES, AS NEEDED.

KEY NOTES:

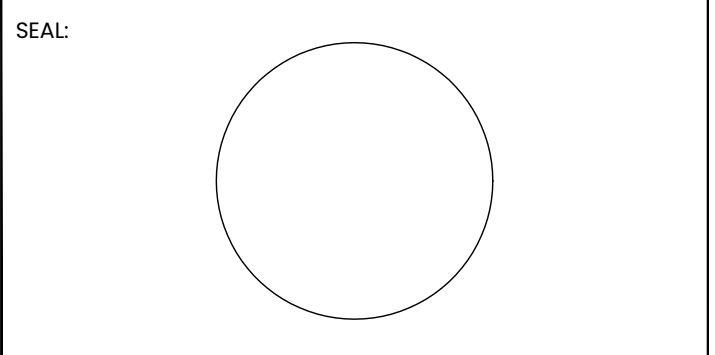
- 1 CONTRACTOR TO TIE-IN TO EXISTING BAS SYSTEM FOR LIGHTING CONTROL.
- 2 CONTRACTOR TO RE-USING EXISTING LIGHTING CIRCUIT.
- 3 CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING LIGHTING FIXTURES AND ASSOCIATED DEVICES.
- 4 CONTRACTOR TO REMOVE ALL EXISTING ELECTRICAL OUTLET.
- 5 EXHAUST FAN CONTROLS TO BE INTERLOCKED WITH OCCUPANCY SENSOR.
- 6 EXHAUST FAN CONTROLS TO BE INTERLOCKED WITH LIGHTING CONTROLS.
- 7 CONTRACTOR TO REUSE EXISTING RECEPTACLE CIRCUIT FOR THIS CONNECTION.
- 8 CONTRACTOR TO PULL A NEW 120V, 15A CIRCUIT FROM THE NEAREST POWER PANEL FOR BATHROOM ADO AND PLUG.
- 9 PROVIDE ELECTRICAL OUTLET FOR FUTURE CHANGE TABLE, 120V, 15A CIRCUIT FROM THE PANEL E.
- 10 CONTRACTOR TO PULL A NEW 120V, 15A CIRCUIT FROM THE PANEL E FOR NEW EF.
- 11 PROVIDE ELECTRICAL OUTLET FOR FUTURE CEILING HOIST, 120V, 15A CIRCUIT FROM THE PANEL E.
- 12 EXISTING PA SPEAKER LOCATION
- 13 PROVIDE POWER TO ALL FIXTURE HARDWARE.

UNIVERSAL WASHROOM DETAIL:

1. LIGHTING SHALL BE CONTROLLED BY AN OCCUPANCY SENSOR TO ENSURE ENERGY EFFICIENCY AND AUTOMATIC OPERATION BASED ON ROOM OCCUPANCY.
2. PROVIDE AN EMERGENCY SIGN WITH THE TEXT: "IN THE EVENT OF AN EMERGENCY, PRESS BUTTON TO ACTIVATE AUDIBLE AND VISUAL SIGNAL." THE LETTERS MUST BE 25MM HIGH WITH A 5MM STROKE AND SHOULD BE POSTED ABOVE THE EMERGENCY BUTTON.
3. WHEN THE OUTSIDE ACCESSIBLE PUSH PLATE IS PRESSED, THE ELECTRICAL DOOR STRIKE SHALL REMAIN DE-ENERGIZED WHILE THE DOOR OPERATOR CYCLES OPEN AND CLOSED.
4. WHEN THE DOOR IS CLOSED AND THE "PUSH TO LOCK" BUTTON INSIDE THE WASHROOM IS PRESSED, THE ELECTRICAL DOOR STRIKE WILL BECOME ENERGIZED, AND THE DOOR WILL SECURELY LOCK.
5. PRESSED THE "PUSH TO OPEN" BUTTON INSIDE THE WASHROOM WILL DE-ENERGIZE THE ELECTRICAL DOOR STRIKE, ALLOWING THE DOOR OPERATOR TO OPEN AND CLOSE THE DOOR.
6. AFTER THE DOOR IS CLOSED FOLLOWING EXIT, THE ELECTRICAL DOOR STRIKE WILL REMAIN DE-ENERGIZED, ENSURING THE DOOR STAYS LOCKED.
7. A WALL-MOUNTED "OCCUPIED WHEN LIT" INDICATOR LIGHT SHALL ILLUMINATE WHEN THE "PUSH TO LOCK" BUTTON IS PRESSED, AND TURN OFF WHEN THE "PUSH TO OPEN" BUTTON IS PRESSED.
8. UPON ACTIVATION OF THE EMERGENCY CALL BUTTON, BOTH AUDIBLE AND VISUAL ALARMS WILL BE TRIGGERED, AND THE DOOR WILL BE DE-ENERGIZED AND UNLOCKED FOR EMERGENCY ACCESS.
9. IN THE EVENT OF AN EMERGENCY, THE DOOR CAN ALSO BE OPENED FROM THE OUTSIDE USING A MASTER KEY.
10. UNLESS OTHERWISE NOTED, THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL A COMPLETE DOOR OPERATION SYSTEM, INCLUDING ALL NECESSARY HARDWARE, WIRING, CONDUIT, AND BACKBOXES. ALL WIRING SHALL BE INSTALLED IN CONDUIT, IN ACCORDANCE WITH THE DOOR HARDWARE MANUFACTURER'S REQUIREMENTS.



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NO.	ISSUED FOR	BY	DATE
2.	ISSUED FOR TENDER	T.M.	26/04/10
1.	ISSUED FOR PERMIT	T.M.	26/02/19
	ISSUED FOR		

REVISION TABLE

PROJECT NAME:
DUNDAS VALLEY SECONDARY SCHOOL

PROJECT:
UNIVERSAL WASHROOM RENOVATION

310 GOVERNORS ROAD,
DUNDAS, ON.

DRAWING TITLE:
PROPOSED ELECTRICAL LAYOUT

PROJECT NO: 25105	DATE: DCE. 2025	PROJECT NORTH:
DRAWN BY: J.N	CHECK BY: T.M	
SCALE: N.T.S	PAPER SIZE ARCH-D (24X36)	

DRAWING NUMBER:
E - 02