

GLADYS SPEERS PS RENOVATIONS

2150 SAMWAY RD,
OAKVILLE, ONTARIO L6L 2P6



REVIEWED BY OAKVILLE
FIRE DEPARTMENT

FINAL INSPECTION
REQUIRED BY OAKVILLE
FIRE DEPARTMENT

FIRE AND LIFE SAFETY SYSTEMS TO BE
MAINTAINED OPERATIONAL IN CONFORMANCE
WITH THE ONTARIO FIRE CODE

	BUILDING SERVICES REVIEWED <small>PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN IN COLOUR AND MARKED THEREON OR ON ATTACHED DOCUMENT.</small>
PERMIT NO:	22-111973
DATE:	June 6, 2022
REVIEWED BY:	N. Varias
CONSTRUCTION MUST CONFORM TO THE ONTARIO BUILDING CODE	

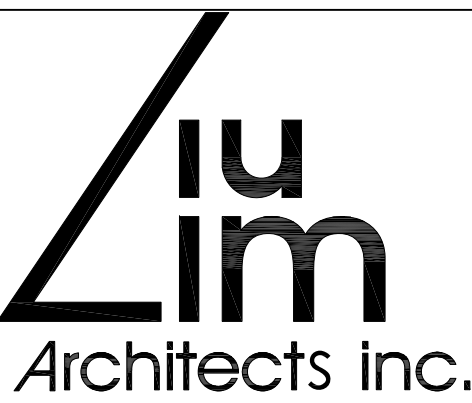
1. VERIFY ALL DIMENSIONS AND EXISTING SITE CONDITIONS. REPORT ANY DISCREPANCIES TO ARCHITECT BEFORE PROCEEDING WITH THE WORK
2. REPORT TO ARCHITECT AT LEAST THREE WORKING DAYS PRIOR TO CONSTRUCTION ALL DISCREPANCIES, OMISSIONS, ERRORS, DEPARTURES FROM BUILDING BY-LAWS, O.B.C., OR GOOD PRACTICE AND POINTS CONSIDERED TO BE OF AMBIGUOUS INTENT, SO THAT THE ARCHITECT MAY, IF NECESSARY, ISSUE INSTRUCTIONS BY ADDENDA. THE ARCHITECT WILL NOT BE RESPONSIBLE FOR ORAL INSTRUCTIONS.
3. DO NOT SCALE DRAWINGS.
4. EXTEND, MAKE GOOD, REPAIR AND CLEAN EXISTING SUBSTRATES, FINISHES, AND COMPONENTS AS REQUIRED TO MATCH EXISTING. PROVIDE ADDITIONAL MATERIALS AND COMPONENTS AS REQUIRED. MAINTAIN CONTINUITY TO EXISTING WORK, FLUSH, PLUMB AND IN ALIGNMENT, AND WITHOUT DETRIMENTS TO VISUAL APPEARANCE. MATCH EXISTING MATERIALS AND METHODS. VARIATIONS WILL BE ACCEPTED BY ARCHITECT'S WRITTEN AUTHORIZATION ONLY, AND WHERE AUTHORIZED MUST MEET OR EXCEED QUALITY AND PERFORMANCE OF EXISTING.
5. PROTECT EXISTING WORK TO REMAIN AS REQUIRED. BE RESPONSIBLE FOR REPAIRS, MAKING GOOD AND CLEANING IN EVENT PROTECTION IS NOT ADEQUATE.
6. PROTECT PUBLIC AND OTHER PRIVATE PROPERTY BEYOND IMMEDIATE WORK AREA. CONTRACTOR TO HOLD OWNER HARMLESS AGAINST ALL CLAIMS ASSOCIATED WITH THIS WORK.
7. MAINTAIN CONTINUITY OF ALL EXISTING FIRE SEPARATIONS, ASSEMBLIES, AND PROTECTIVE CLADDING.
8. ALL WORK IS TO BE PROVIDED AS COMPLETE, OPERATING SYSTEMS EXCEPT AS NOTED.
9. PREPARE ALL EXISTING SUBSTRATES TO RECEIVE NEW FINISHES AS REQUIRED ACCORDING TO RECOMMENDATIONS OF MANUFACTURER OF NEW FINISH MATERIALS.
- 10.PROVIDE PURPOSE-MADE ALUMINUM REDUCING STRIPS AT ALL DISSIMILAR FLOOR FINISH MATERIALS, INCLUDING JUNCTION OF EXISTING MATERIALS TO NEW MATERIALS. SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL.
- 11.MOVE MATERIALS AND DEBRIS FROM IMMEDIATE WORK AREA TO EXTERIOR RUBBISH BINS IN CLOSED DUST-TIGHT CONTAINERS. LOCATE BINS TO APPROVAL OF OWNER AND LANDLORD.
- 12.CO-ORDINATE AND PAY FOR ALL CHARGES AND FEES ASSOCIATED WITH THE WORK TO BE PERFORMED AS LEVIED BY THE AUTHORITIES HAVING JURISDICTION. PROCURE ALL ENCROACHMENT AGREEMENTS AS REQUIRED TO PERMIT WORK TO BE PERFORMED.
- 13.PROVIDE DUSTTIGHT CONSTRUCTION HOARDING. SUBMIT SHOP DRAWINGS.
- 14.PERFORM ALL SITE PREPARATIONS AND DEMOLITIONS AS REQUIRED TO PERMIT NEW WORK TO COMMENCE AND BE ACCOMMODATED.
- 15.THE SCHEDULE AND SEQUENCE OF THE WORK WILL BE SUBJECT TO THE APPROVAL OF THE OWNER. THE OWNER INTENDS TO OCCUPY AND OPERATE IN THE PREMISES DURING CONSTRUCTION.
- 16.PROVIDE ACCESS TO ALL CONTROL DEVICES AND MAINTAIN ACCESS TO ALL EXISTING CONTROL DEVICES WHICH ARE COVERED BY FINISHES. PROVIDE PRE-MANUFACTURED ACCESS PANELS TO SUIT. SUBMIT SAMPLES TO ARCHITECT FOR APPROVAL.
- 17.REMOVE ALL EXISTING INACTIVE AND ABANDONED MECHANICAL AND ELECTRICAL SERVICE LINES. MAKE GOOD.
- 18.CONFORM TO MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.
- 19.MAINTAIN ACCESS TO EXITS AT ALL TIMES. PROVIDE ALTERNATE EXITS IN CONSULTATION WITH AND AT APPROVAL OF BUILDING OFFICIAL. PROVIDE TEMPORARY EXIT SIGNS AND ADJUST EXISTING EXIT SIGNS AS REQUIRED. AT COMPLETION OF WORK, REMOVE TEMPORARY SIGNS AND RESTORE SIGNAGE. MAKE GOOD.

INFORMATION FOR THIS SITE PLAN TAKEN FROM DOCUMENTS PROVIDED BY THE HALTON DISTRICT SCHOOL BOARD

Revisions				
Ref.	No.	Description	Date	Initial
△		CONSULTANTS COORDINATION	2022/01/31	
△		CONSULTANTS COORDINATION	2022/02/07	
△		CLIENTS REVIEW	2022/02/18	
△		CONSULTANTS COORDINATION	2022/02/24	
△		CONSULTANTS COORDINATION	2022/04/14	
△		CONSULTANTS COORDINATION	2022/04/19	
△		PRE-TENDER SUBMISSION	2022/04/27	
△		ISSUED FOR PERMIT AND TENDER	2022/05/02	



Project:
GLADYS SPEERS PS
RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6



Unit 100 — 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



Consultant:

Title:

TITLE SHEET

Drawn by: M.L.	Date: DECEMBER 2021
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Checked by: W.L.	Plotted:
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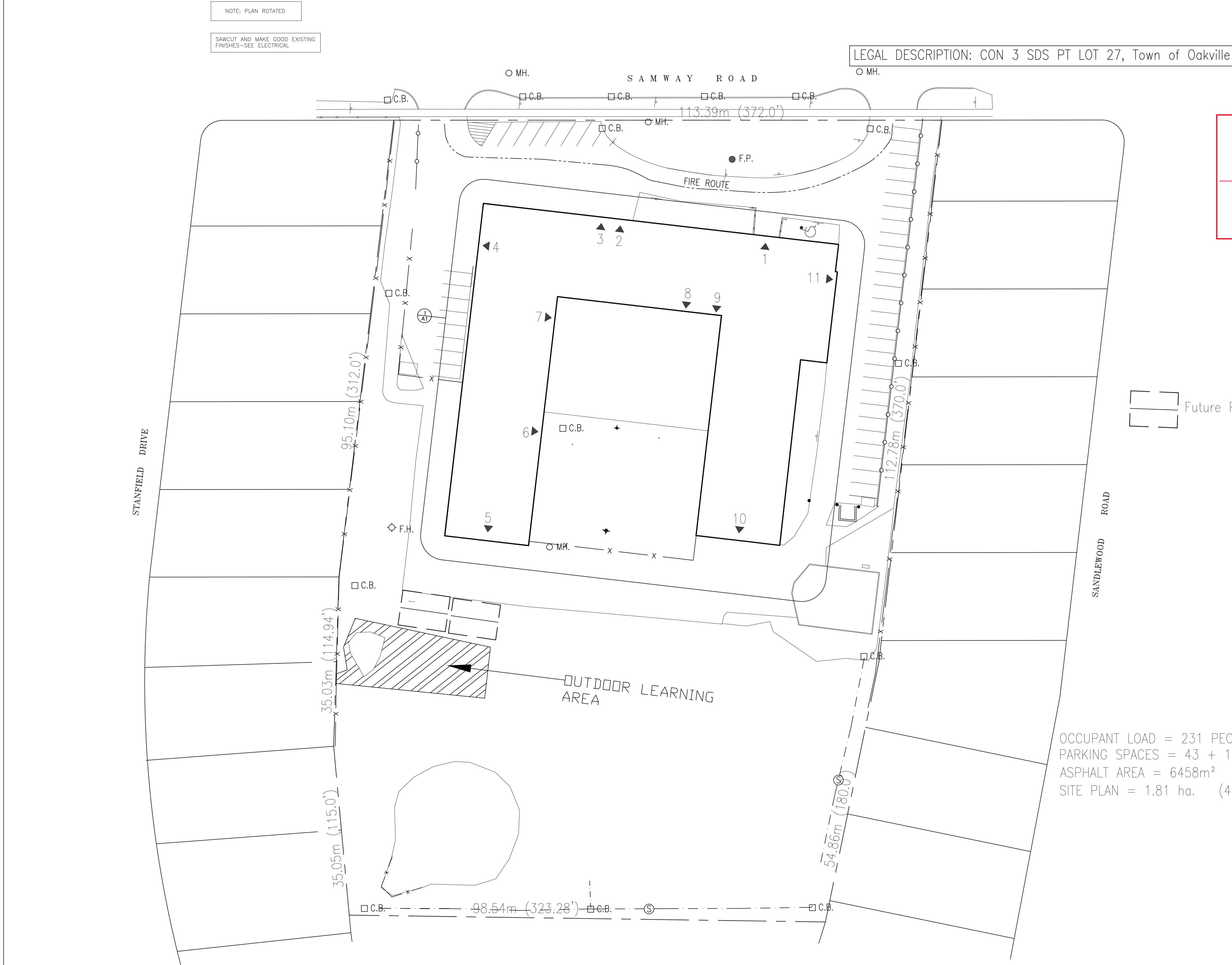
Scale: AS SHOWN	Issued:
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Job No.: 21153	Drawing No.:
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Set No.:

A0

of:



TOWN OF OAKVILLE

ZONING DEPARTMENT
PERMIT APPLICATION

Approved By: mrubic

Date: **25-August-2022**

- ▲ EXIT DOORS
- ◇ F.H. FIRE HYDRANT
- F.P. FLAG POLE
- H.P. HYDRO POLE
- [H] HYDRO TRANSFORMER
- L.S. LIGHT STANDARD
- CBM CATCH BASIN / MANHOLE
- C.B. CATCH BASIN
- MH. MANHOLE
- ↔ SIAMSESE CONNECTION

BUILDING SERVICES
OAKVILLE
PERMIT IS ISSUED SUBJECT TO ANY REASON SHOWN IN COLOUR AND MARKED THEREON OR ON ATTACHED DOCUMENT.

REVIEWED

PERMIT NO: 22-111973

DATE: June 6, 2022

REVIEWED BY: N. Varias

CONSTRUCTION MUST CONFORM TO THE ONTARIO BUILDING CODE

OCCUPANT LOAD = 231 PEOPLE
PARKING SPACES = 43 + 1 H.C.
ASPHALT AREA = 6458m² (69,520 sq.ft.)
SITE PLAN = 1.81 ha. (4.48 acres)

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△		ISSUED FOR PERMIT AND TENDER	2022/05/02	

RECEIVED
BUILDING SERVICES

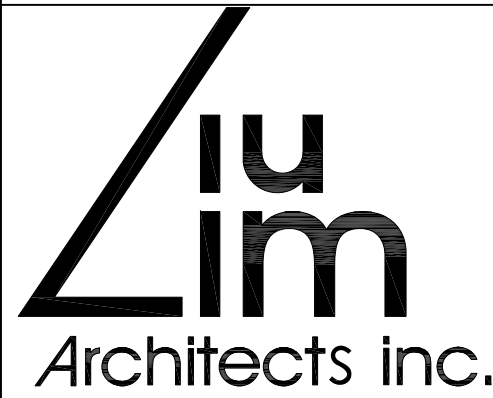
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DATE: 05/26/2022

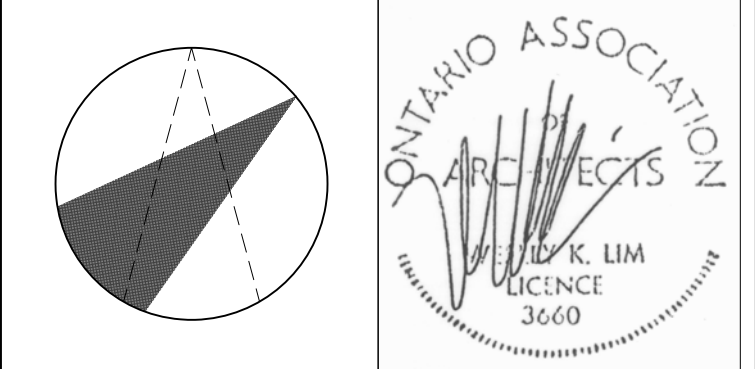
OAKVILLE TOWN OF OAKVILLE

Project:

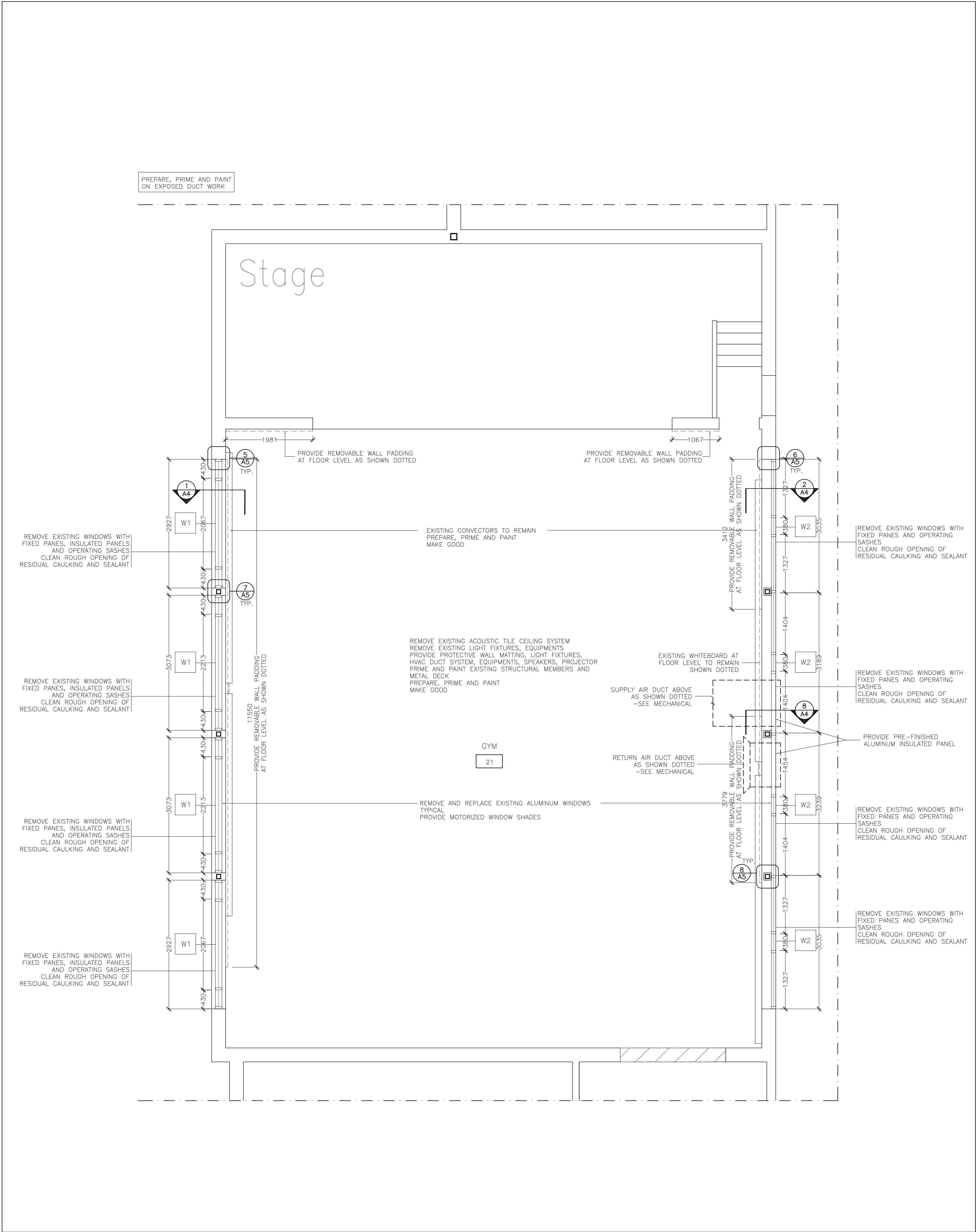
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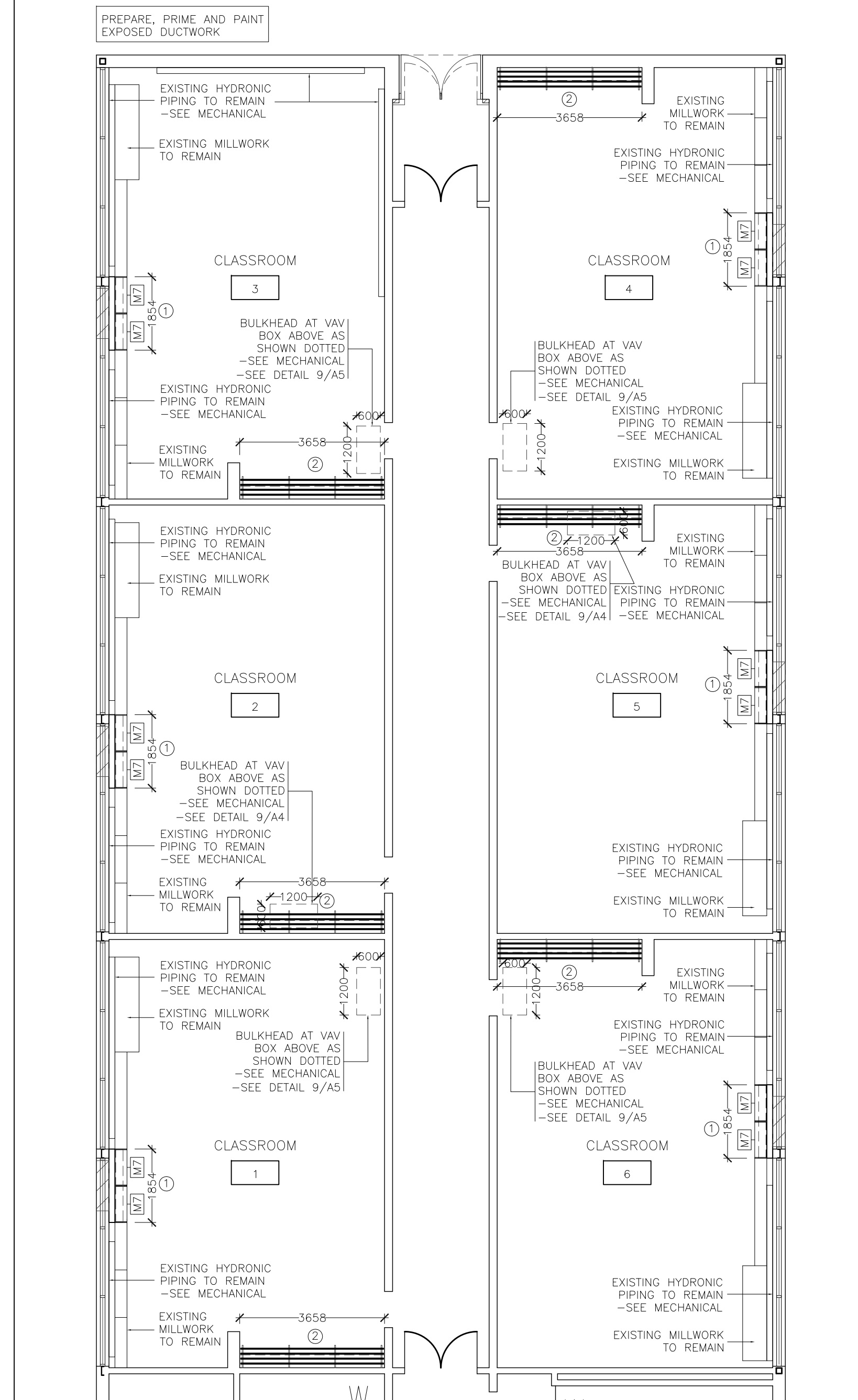


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Consultant:	
Title:	
SITE PLAN	
Drawn by: M.L.	Date: DECEMBER 2021
Checked by: W.L.	Plotted:
Scale: 1:400	Issued:
Job No.: 21153	Drawing No.: SP1
Set No.:	of:





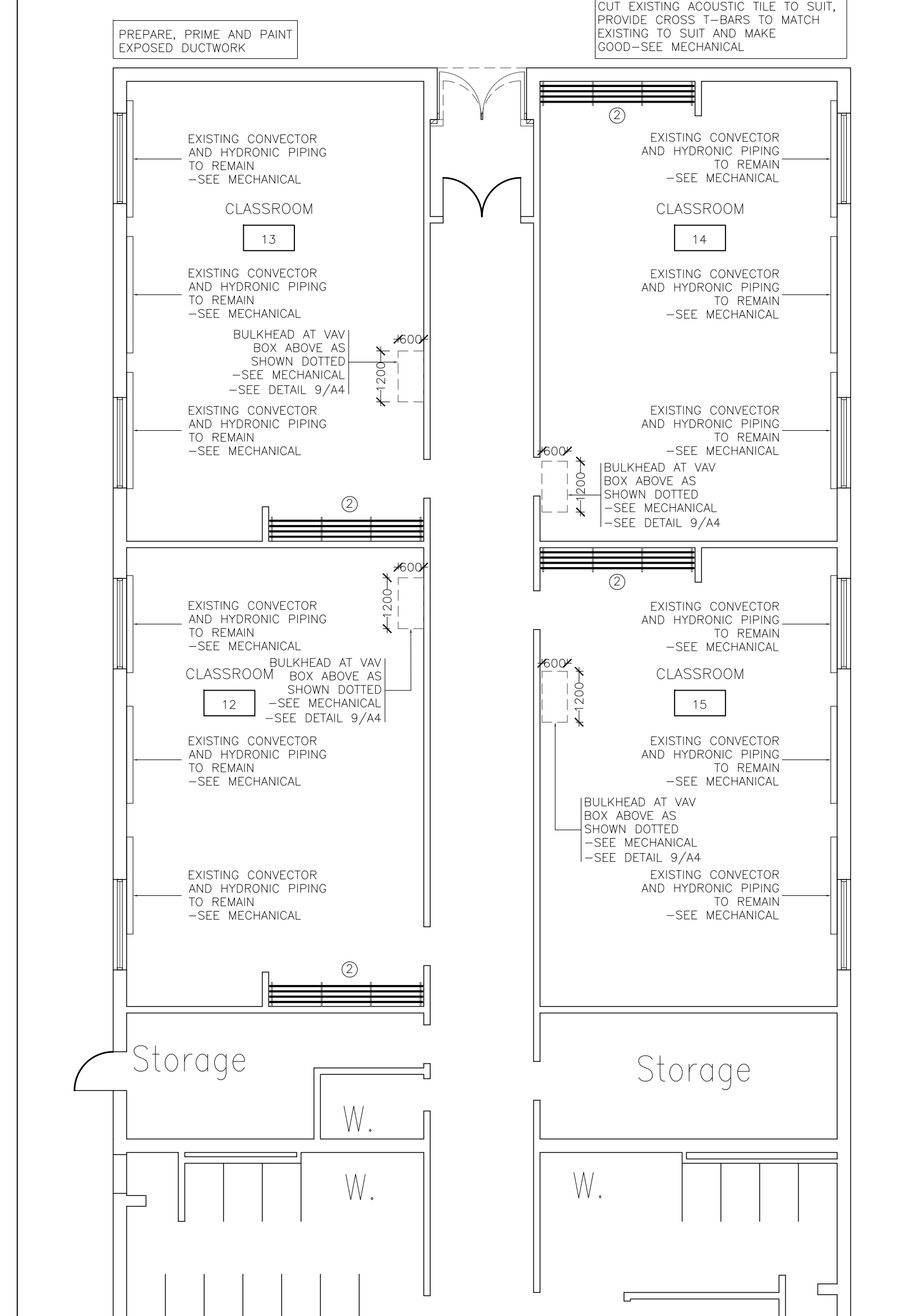
1
A1 ENLARGED CLASSROOM 1-6
PLAN

NOTE ①:
REMOVE EXISTING UNIT VENTILATOR ASSEMBLY –SEE MECHANICAL
STRIP WALL TO EXISTING CONCRETE BLOCK SUBSTRATE
CLEAN, AND PREPARE SUBSTRATE
PROVIDE BLOCK FILLER
REMOVE EXISTING LOUVER
INFLU OPENING TO MATCH EXISTING WALL ASSEMBLY
PROVIDE RADIATOR–SEE MECHANICAL
PROVIDE MILLWORK TO SUIT
MAKE GOOD

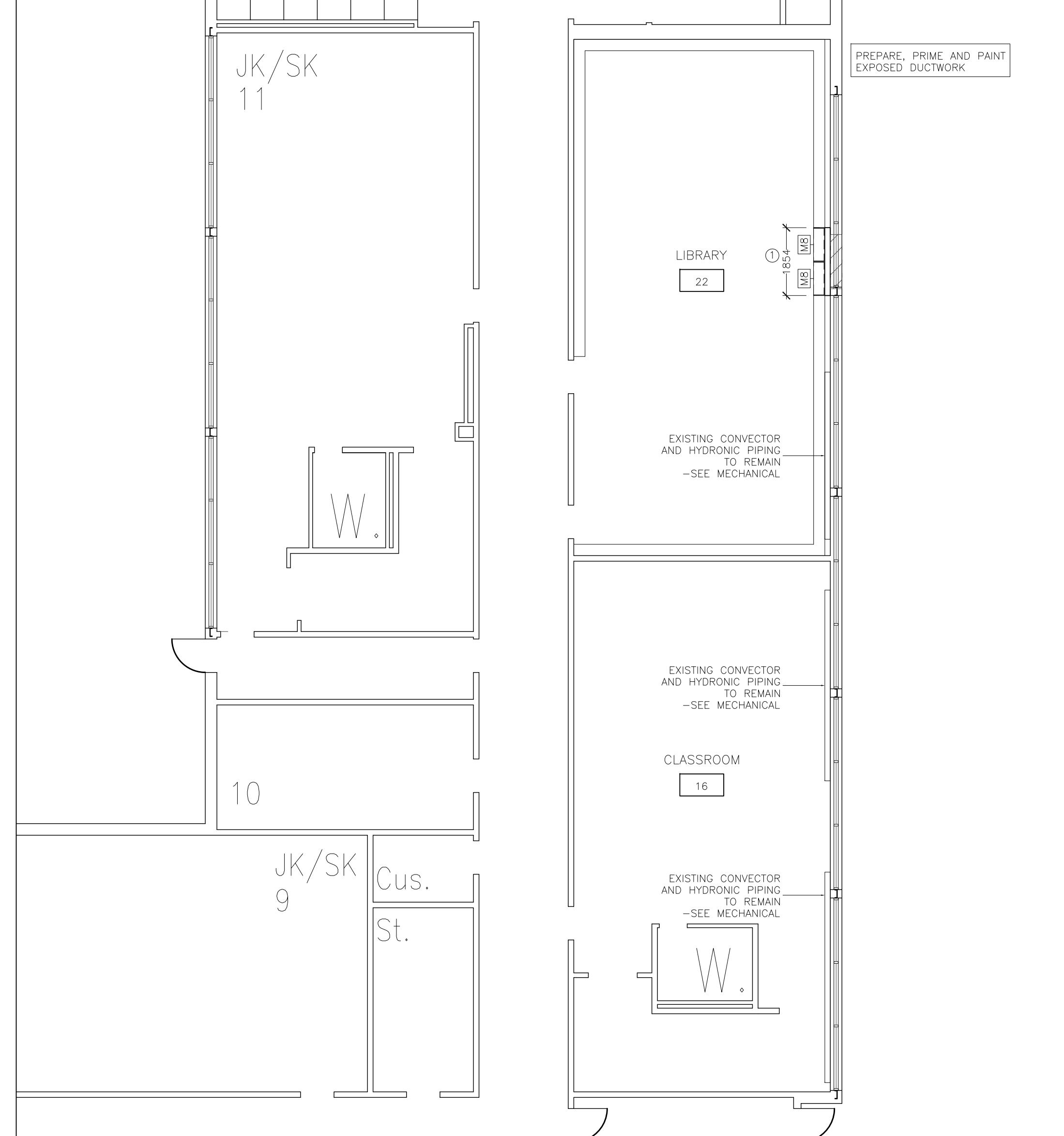
NOTE ②:
REMOVE EXISTING SHELF AND BREAKAWAY HOOKS
PROTECT COAT RACK SYSTEM WITH BREAKAWAY HOOKS
MATCH EXISTING SHELF LENGTH

Fire Separations

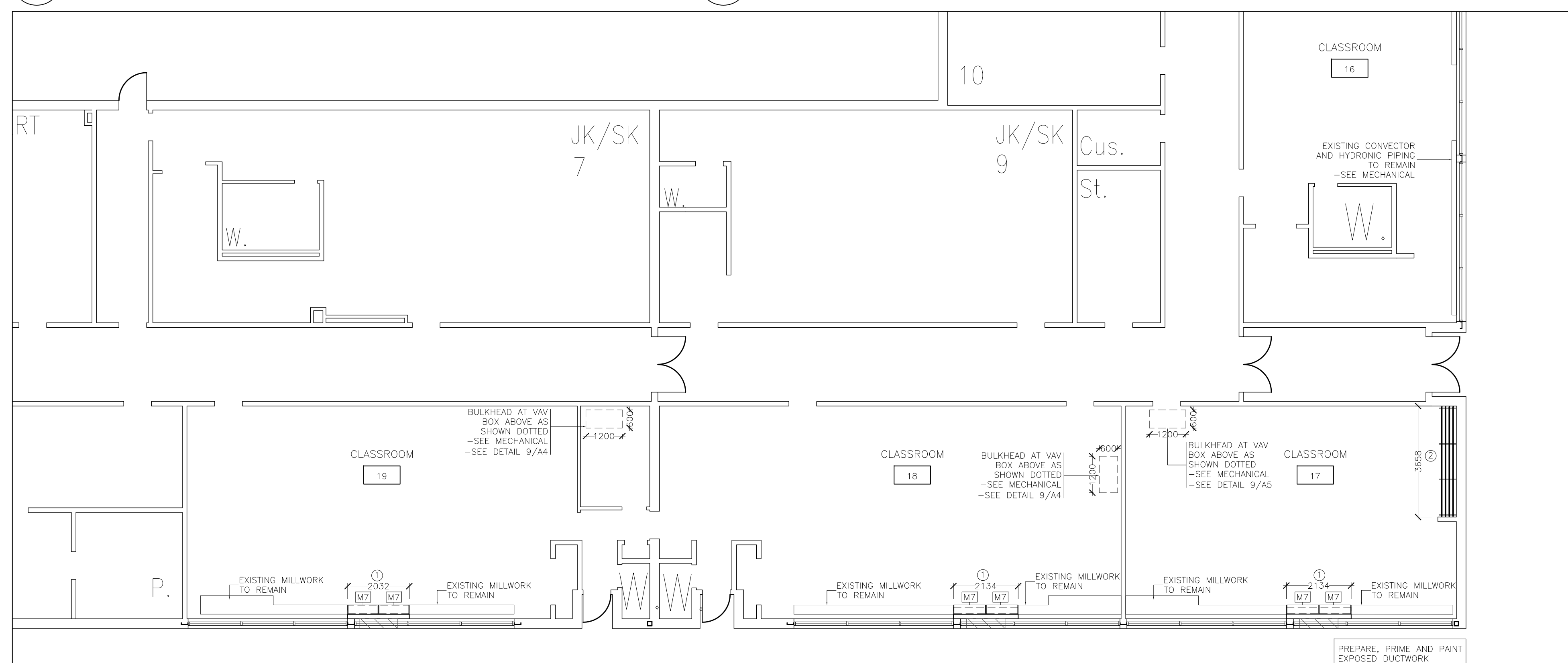
- Maintain all existing required fire separations.
- All required fire separations shall be constructed tight to the underside of floor or roof assemblies above.
- All services passing through fire separated walls and floors are to be tight fitted and firestopped as per type "F" fire rated system tested to test method CAN4-S115.



2 ENLARGED CLASSROOM 12-15
A1 PLAN



3 ENLARGED LIBRARY 22 AND CLASSROOM 16
A1 PLAN



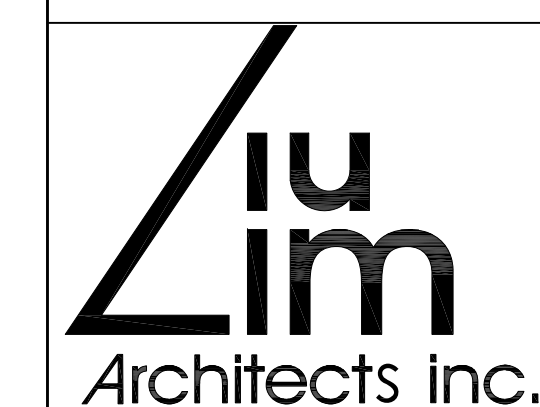
4 A1	ENLARGED CLASSROOM PLAN	17-19
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Revisions				
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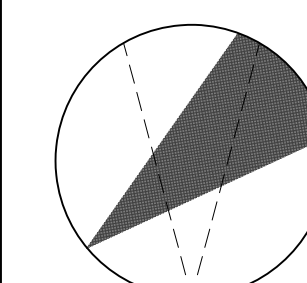


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Consultant:

Title:

ENLARGED PLANS

Drawn by: M.L.	Date: DECEMBER 2021
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Checked by:	Plotted:
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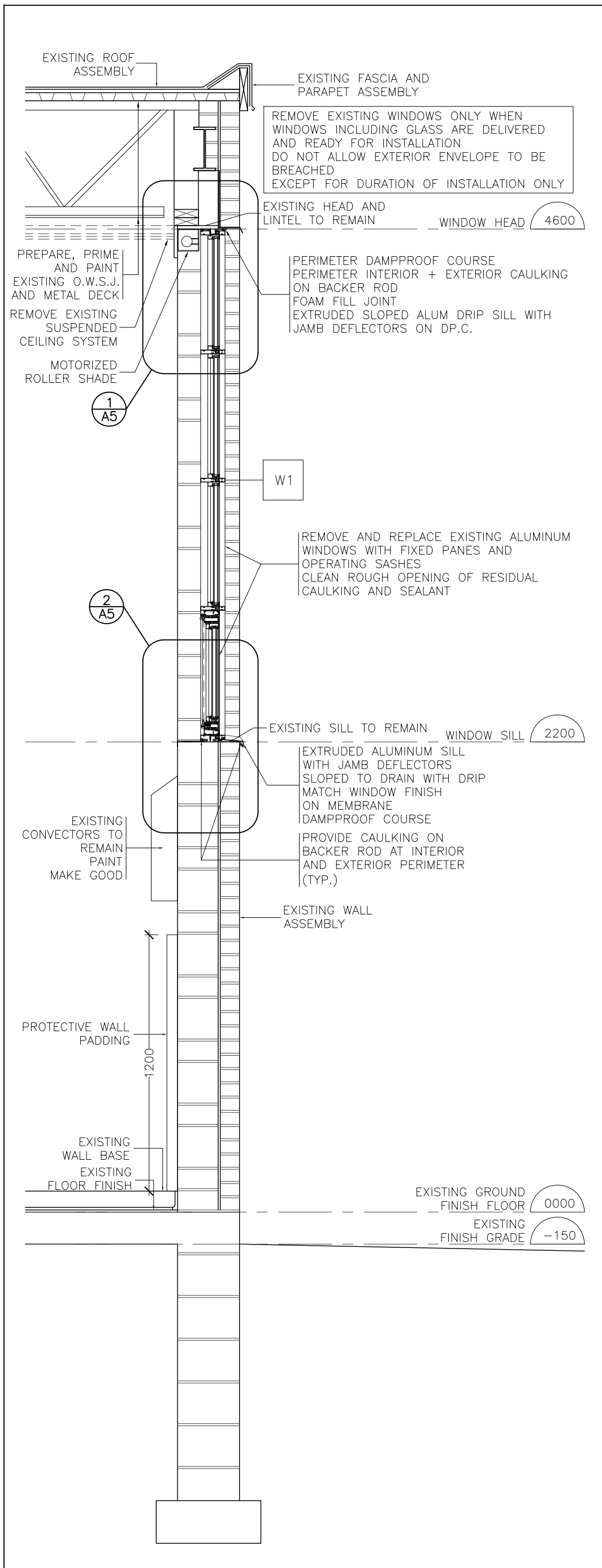
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Job No.:	Drawing No.:
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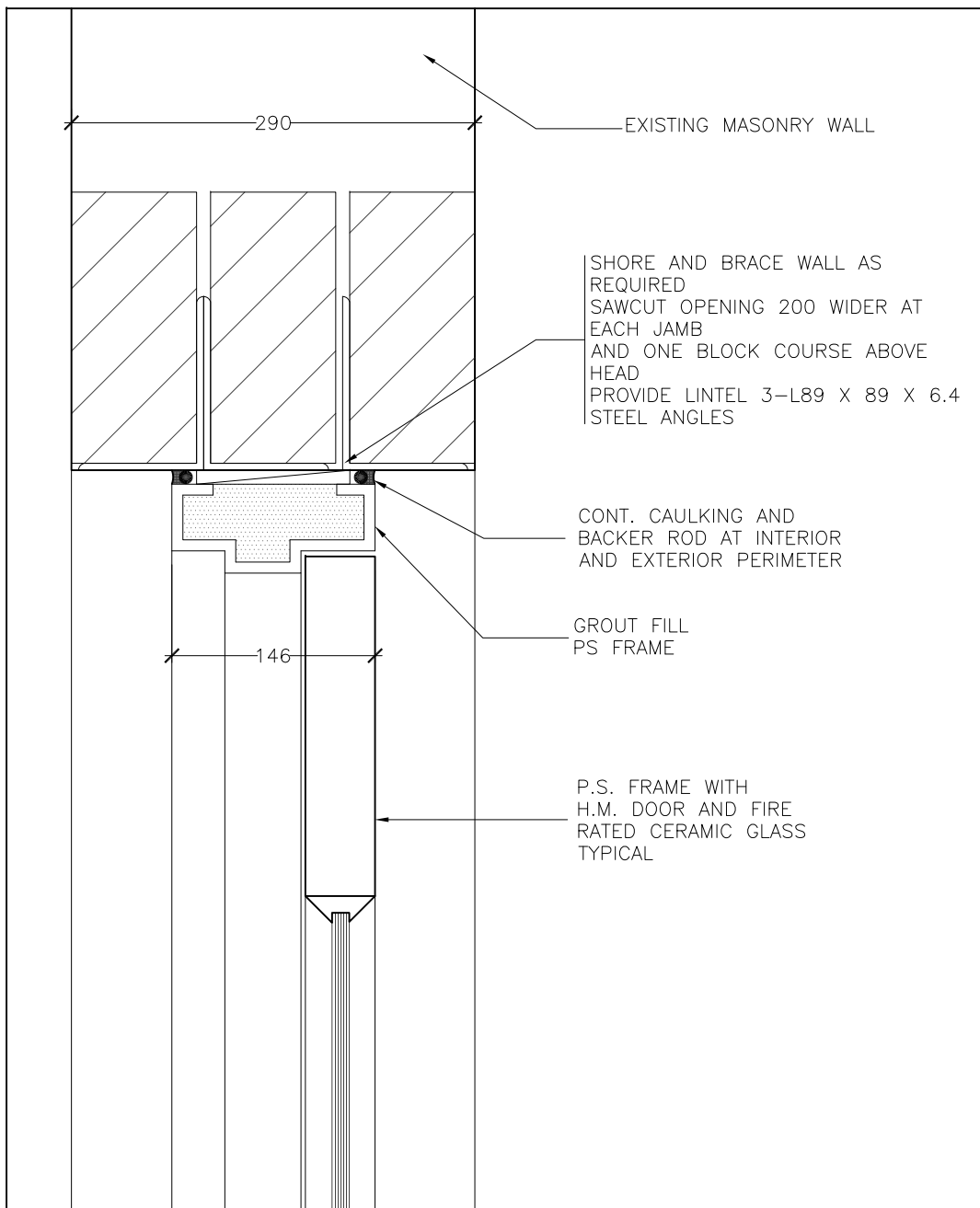
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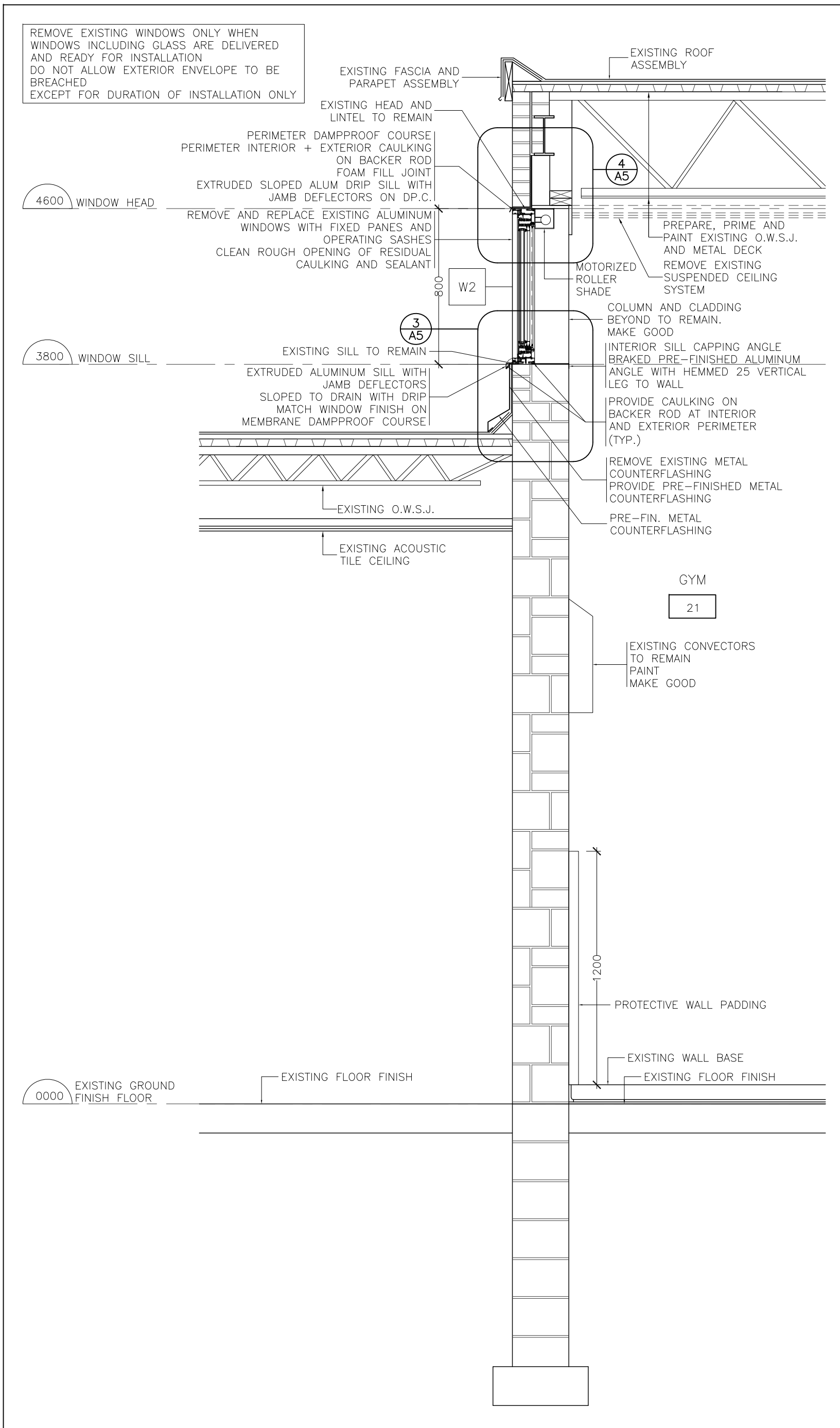
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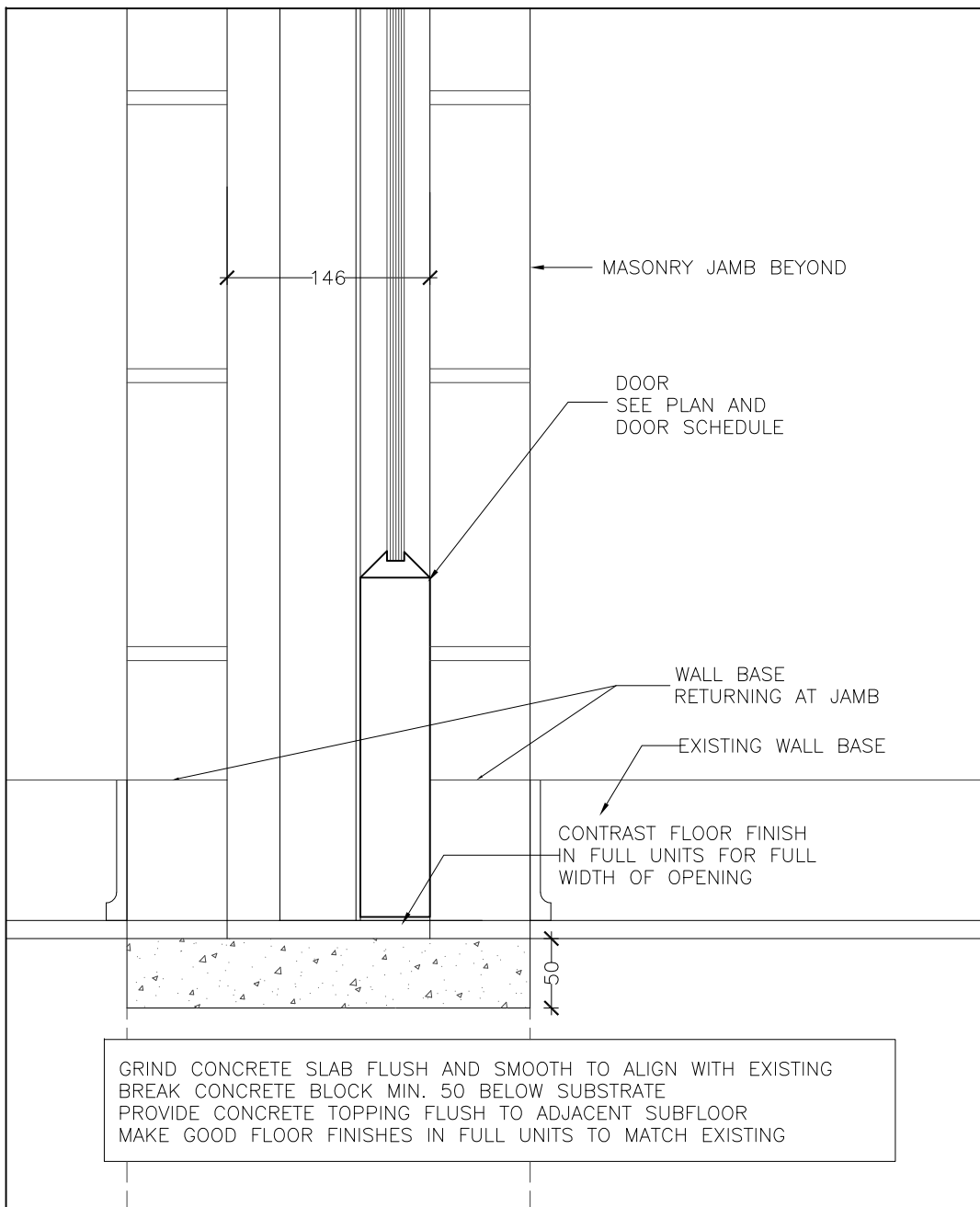
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A2 TYPICAL WINDOW W1
SECTION 1:20



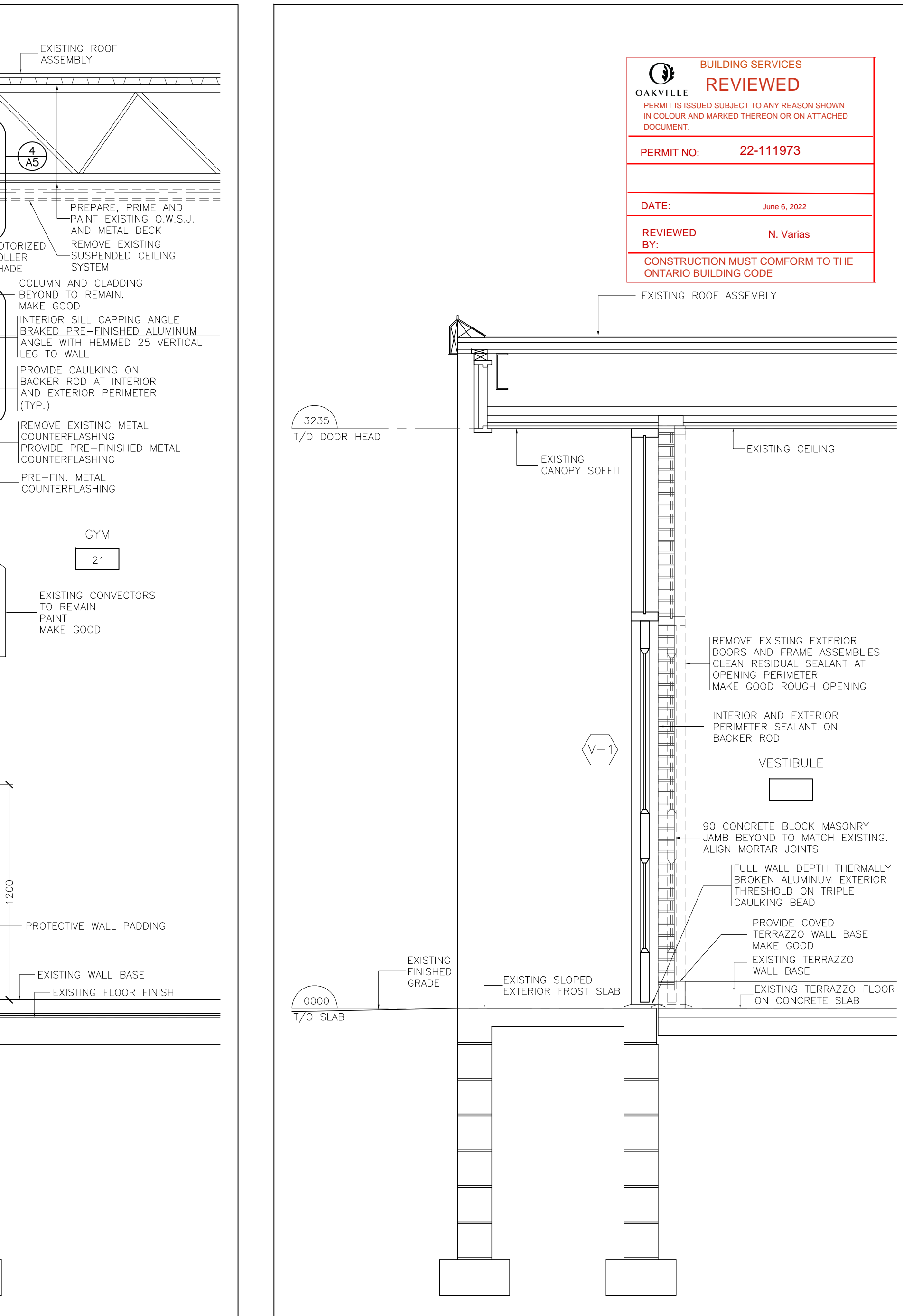
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— MASONRY OPENING DOOR THRESHOLD
SECTION 1:5



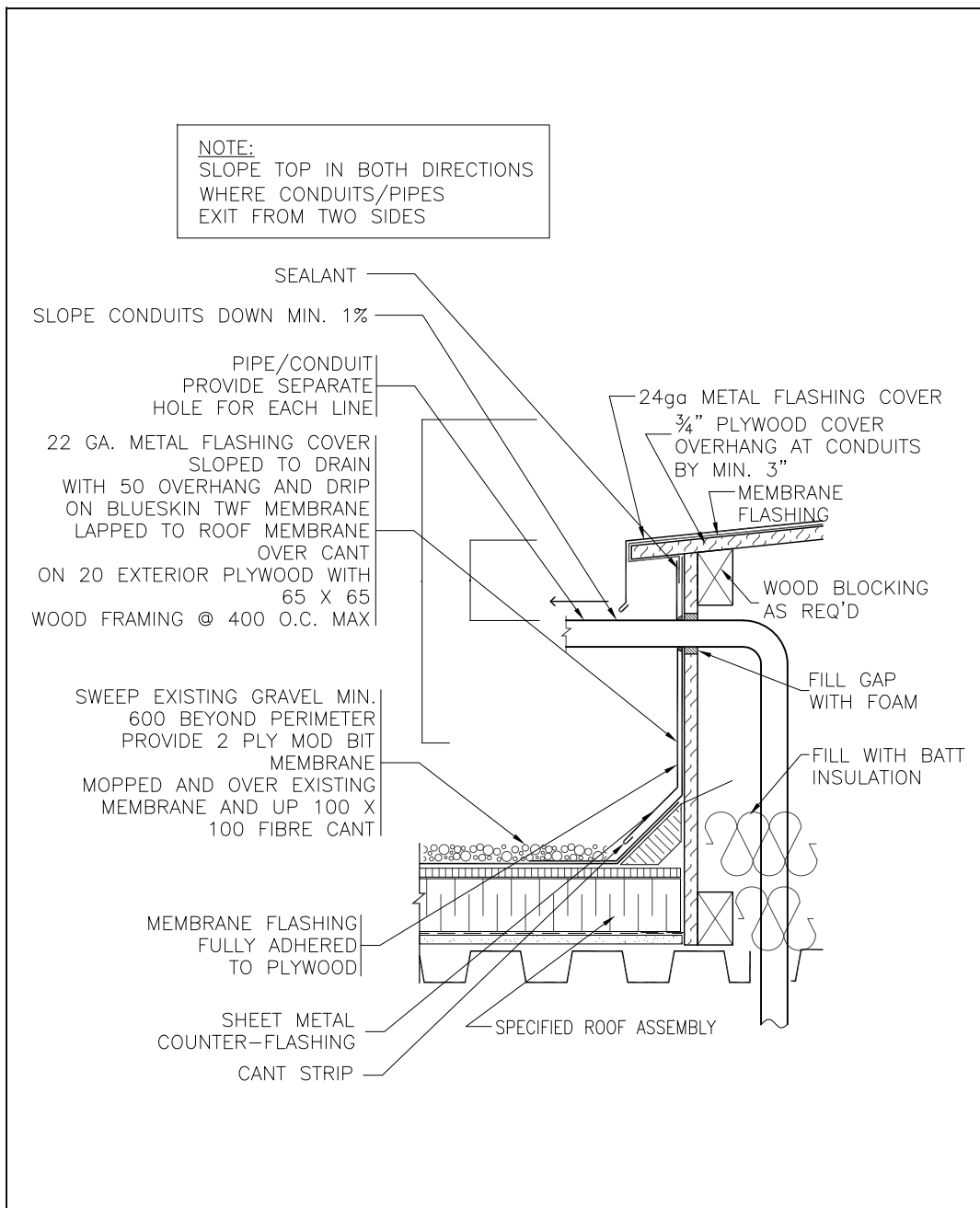
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A2 TYPICAL WINDOW W2
SECTION 1:20



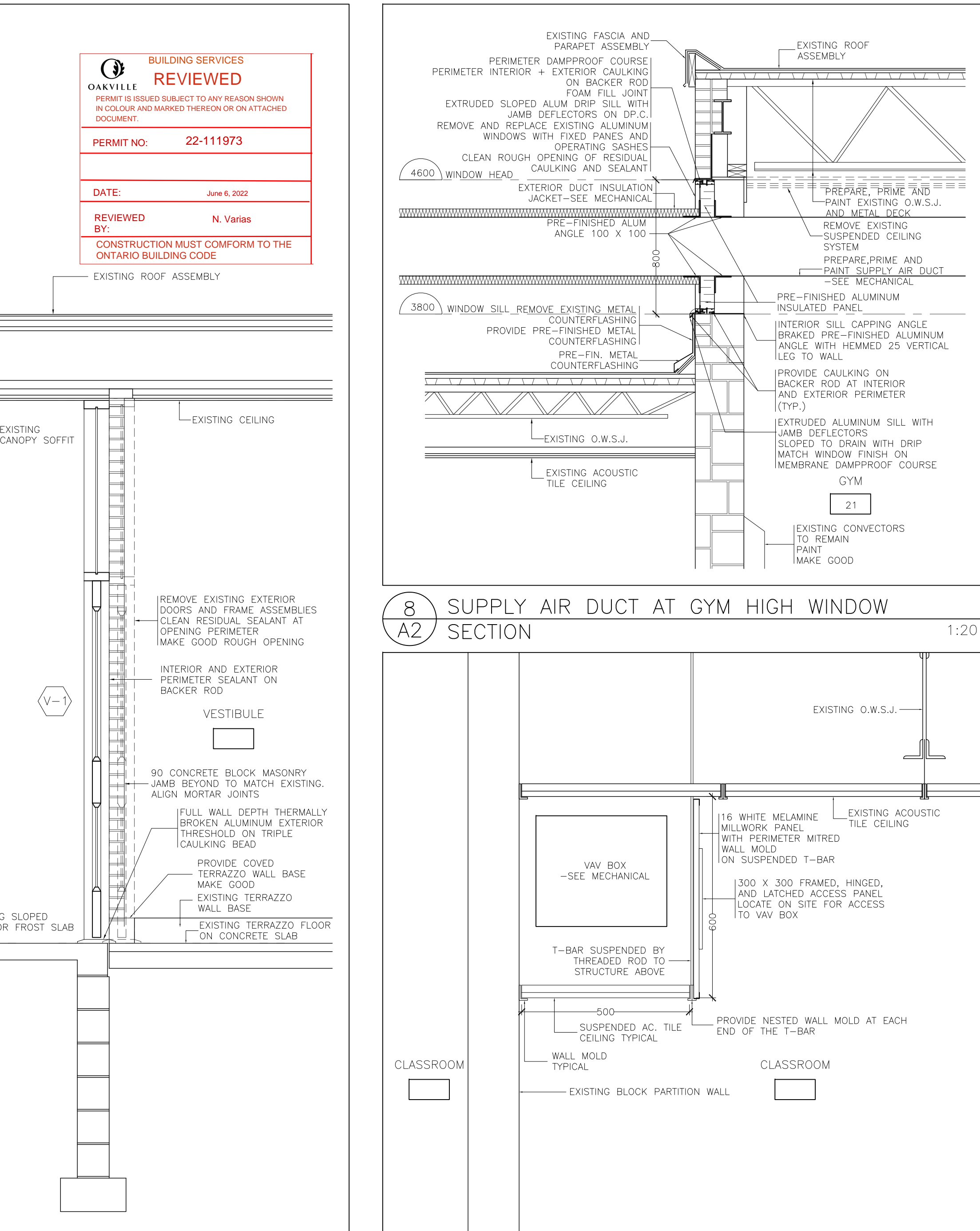
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— MASONRY OPENING DOOR THRESHOLD
SECTION 1:5



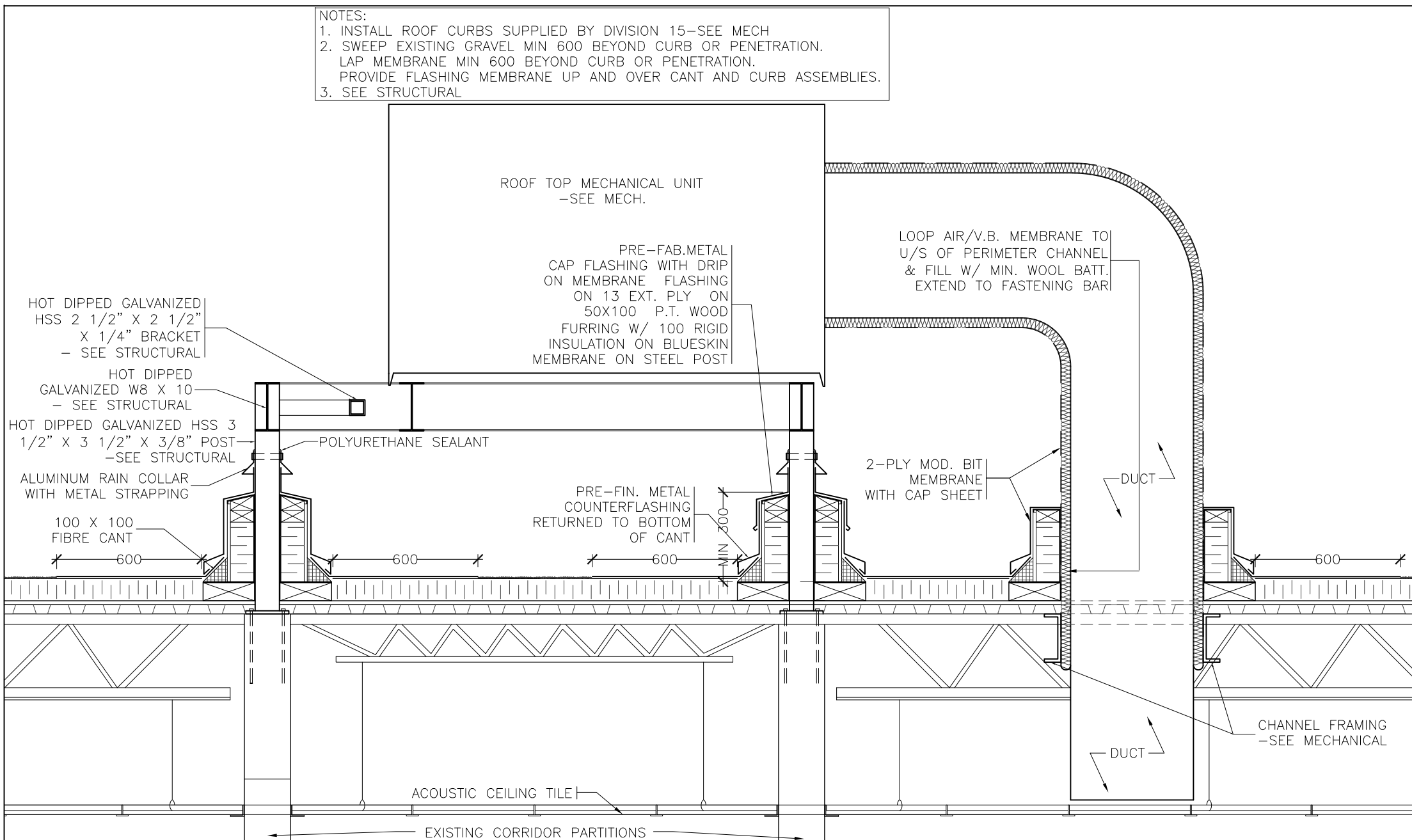
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A2 DOOR V-1
SECTION 1:20



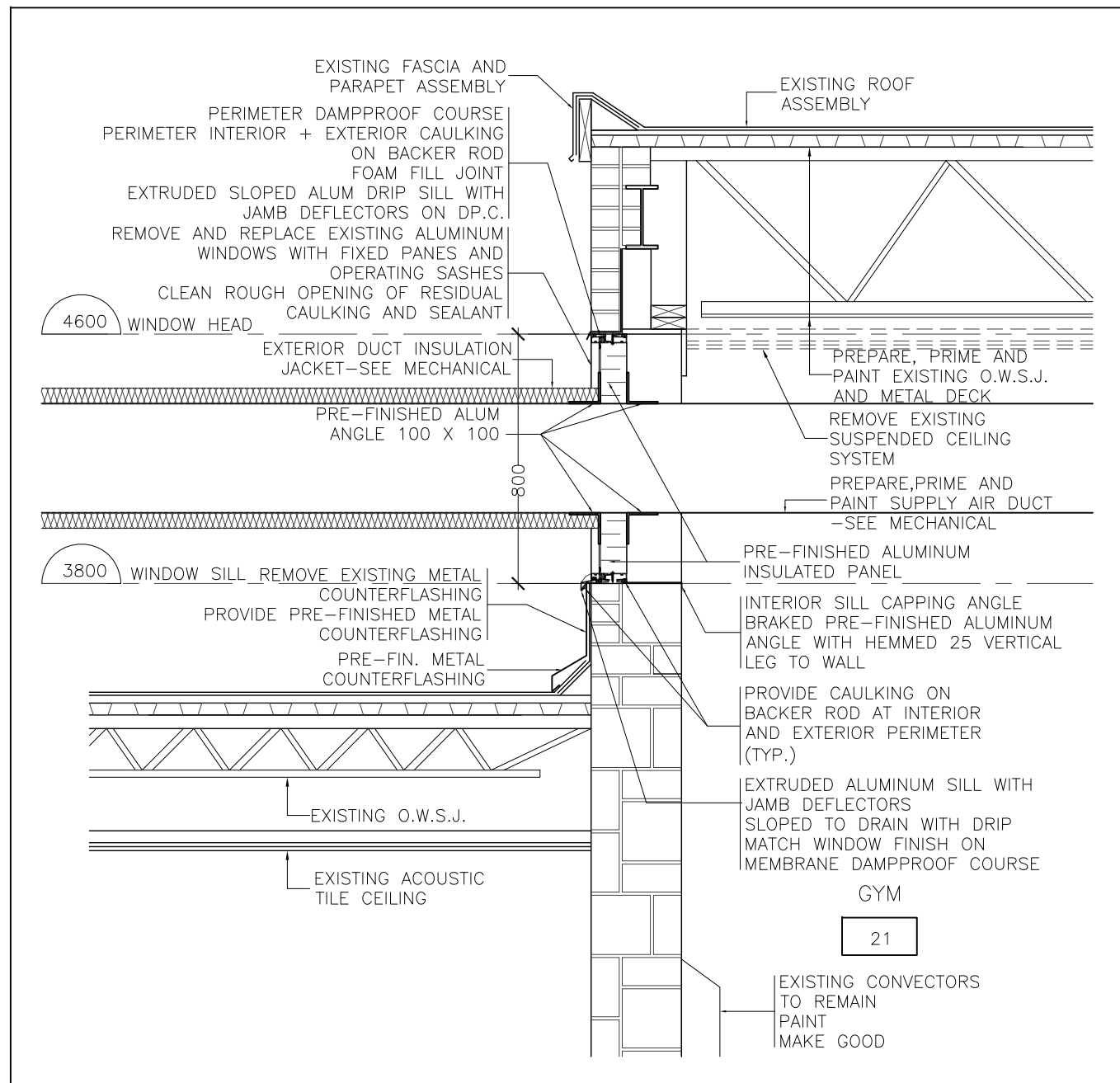
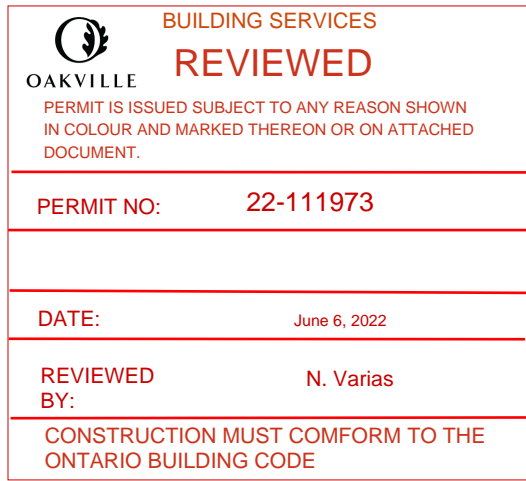
6
— DOG HOUSE
DETAIL 1:10



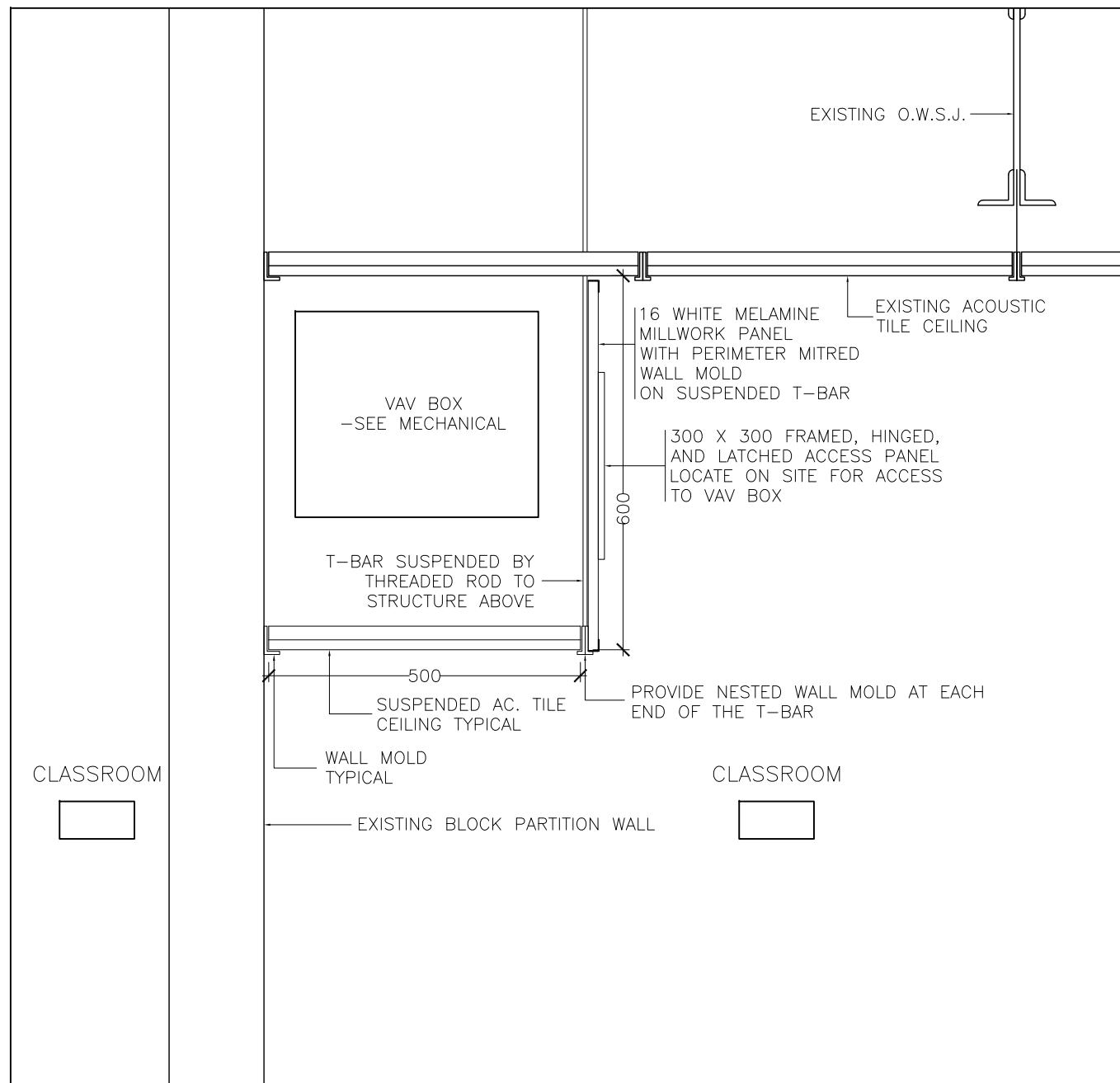
9
A2 BULKHEAD AT VAV BOX BETWEEN CLASSROOMS
SECTION 1:10



7
— MECHANICAL UNIT ROOF PENETRATION
DETAIL 1:20



8
A2 SUPPLY AIR DUCT AT GYM HIGH WINDOW
SECTION 1:20

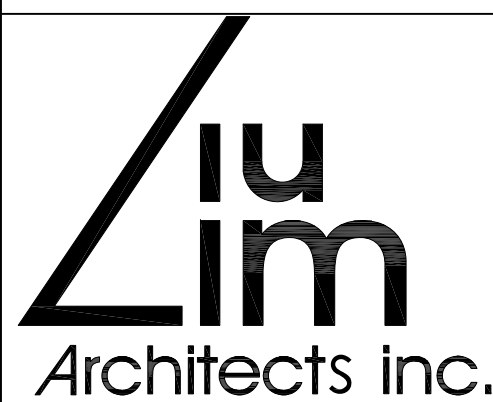


9
A2 BULKHEAD AT VAV BOX BETWEEN CLASSROOMS
SECTION 1:10

Revisions				
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△		CLIENTS REVIEW	2022/02/18	
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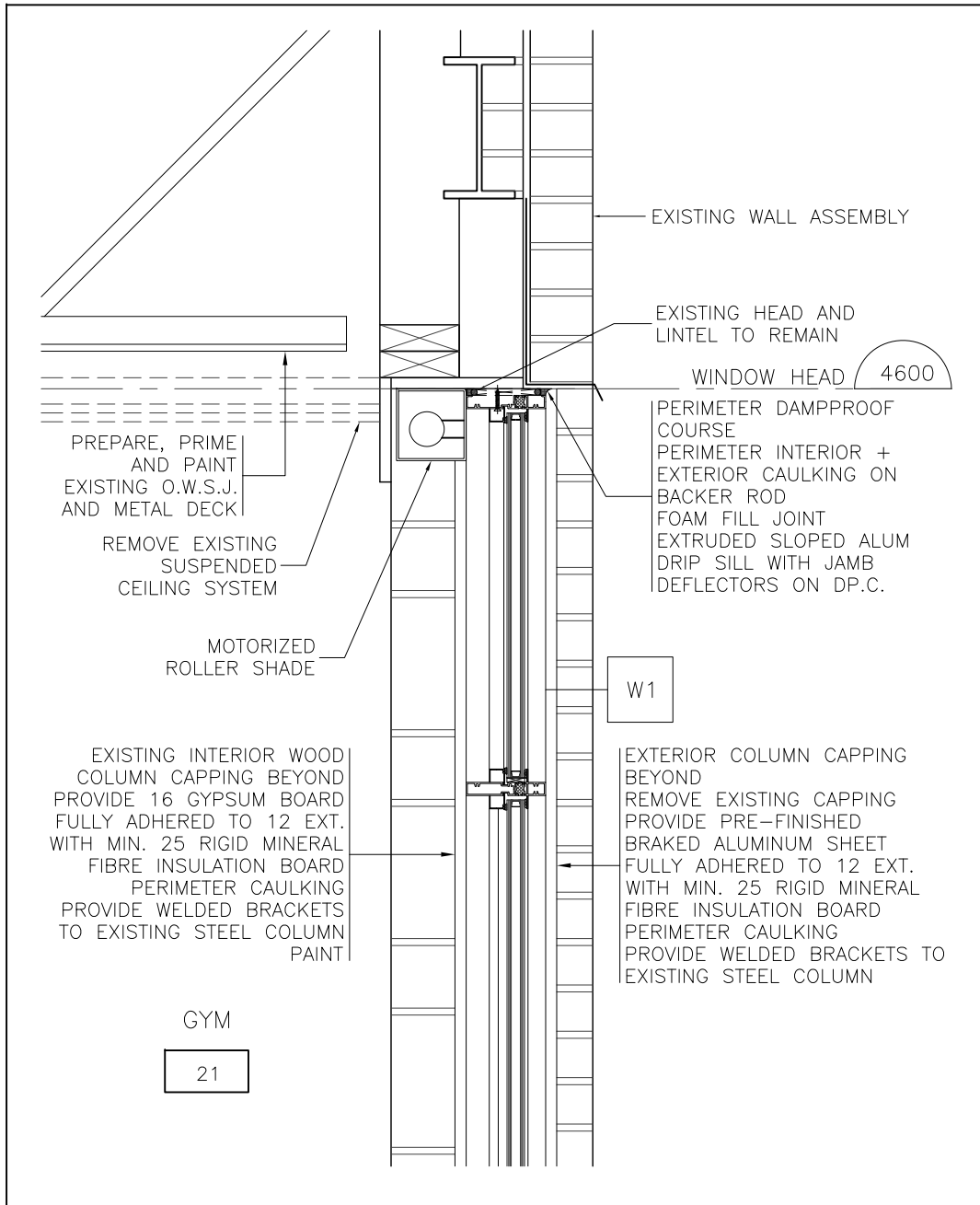
Consultant:

Title:

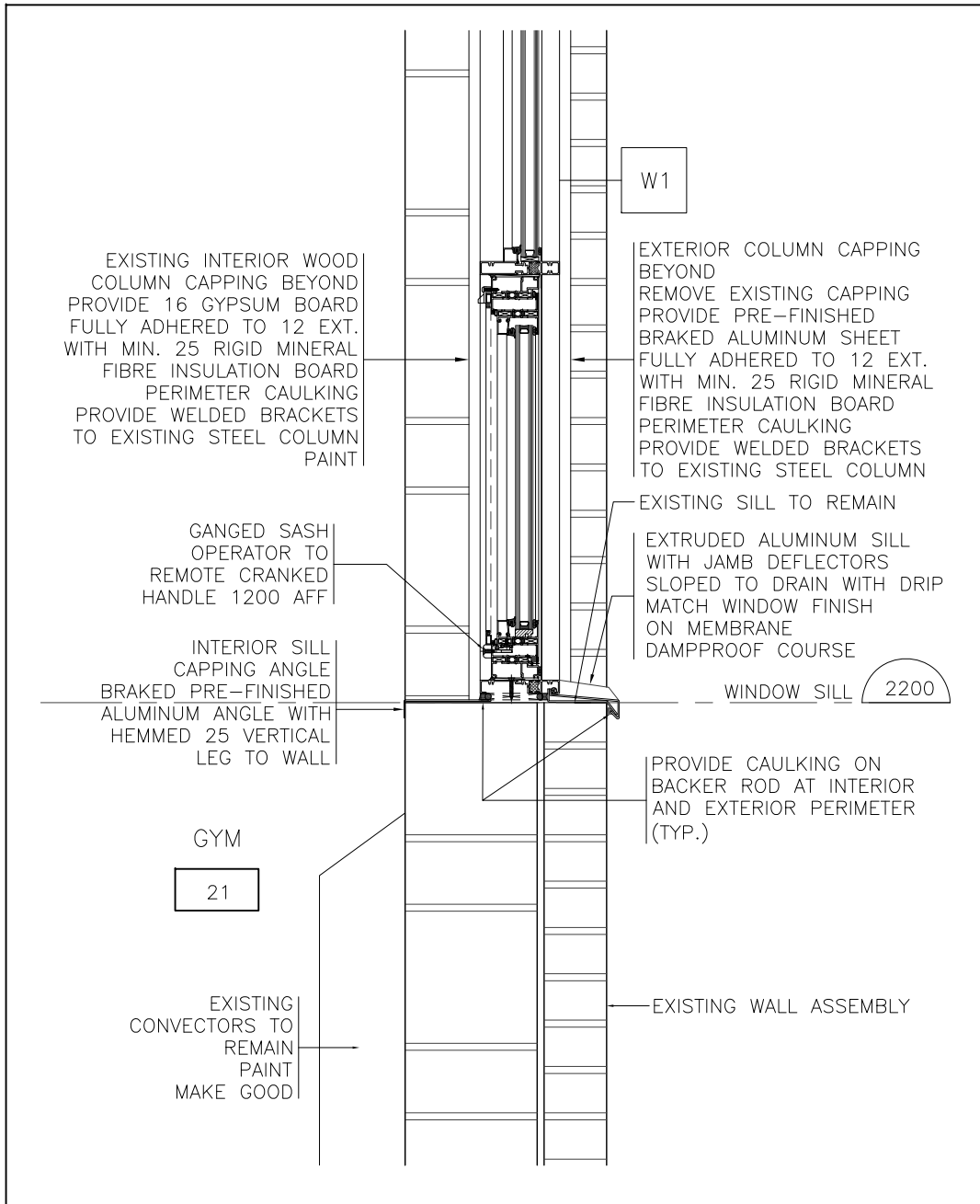
SECTIONS AND DETAILS

Drawn by: M.L.	Date: DECEMBER 2021
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Job No.: 21153	Drawing No.:

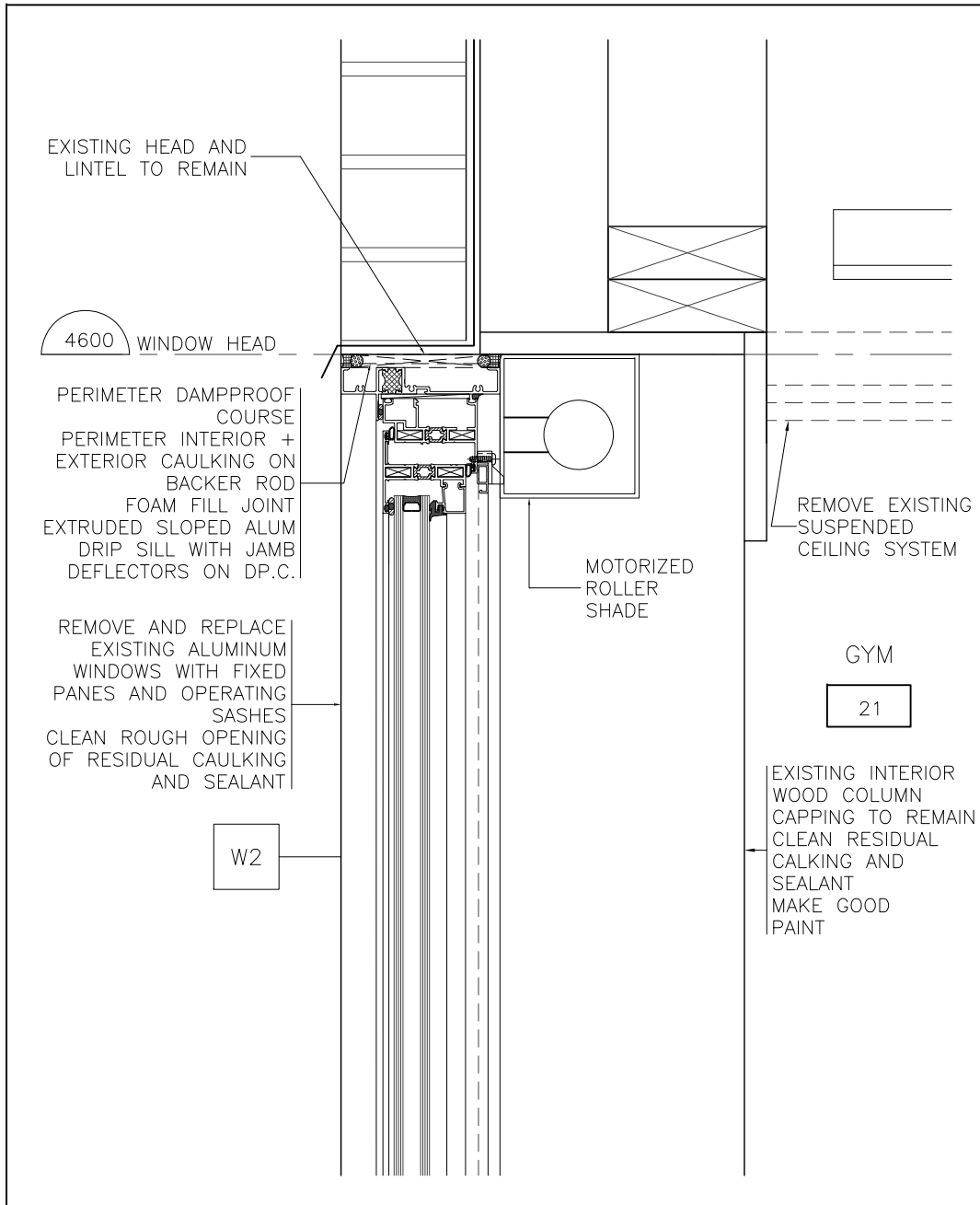
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A4
of:



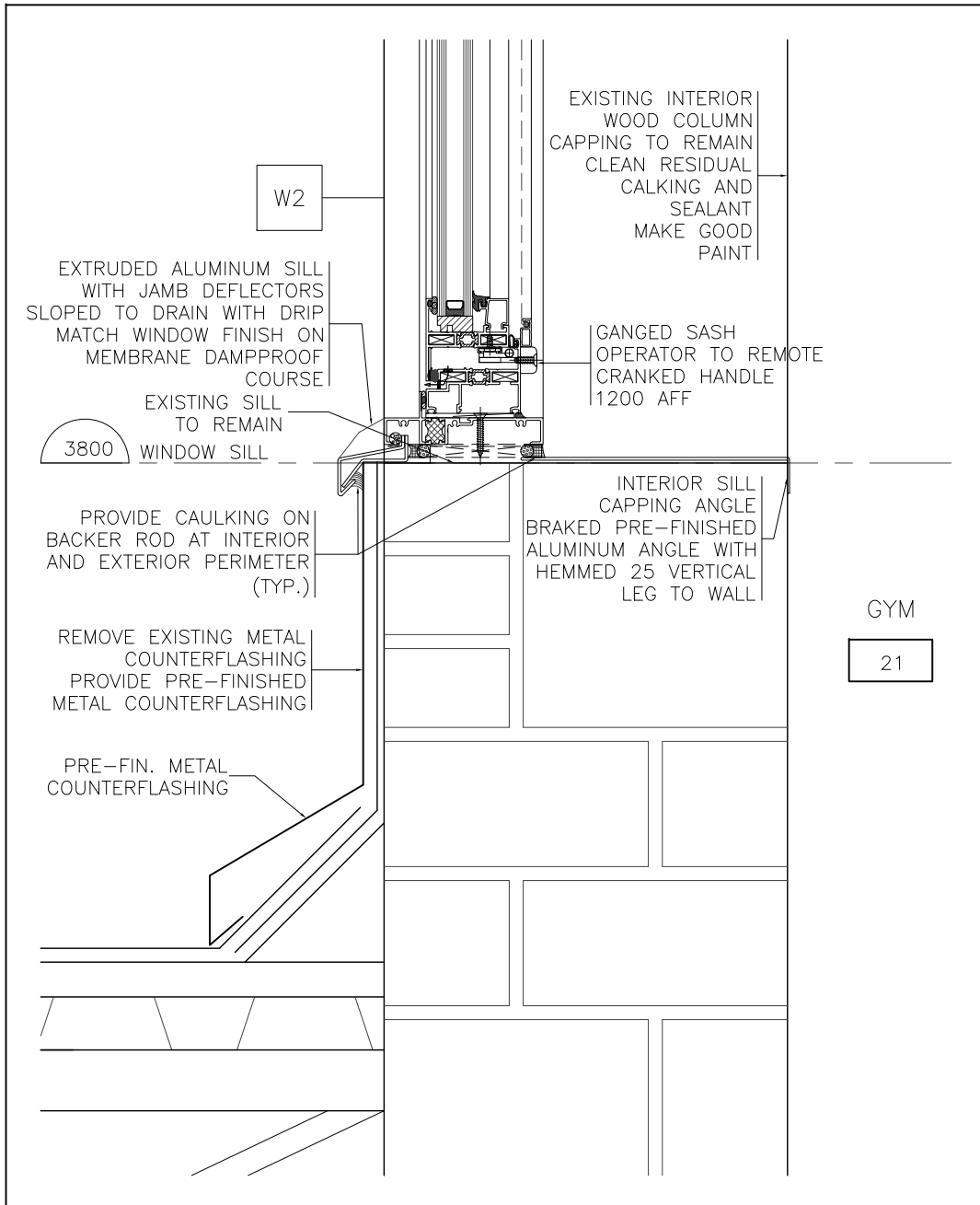
1 WINDOW HEAD AT TYPICAL WINDOW W1
A4 DETAIL 1:10



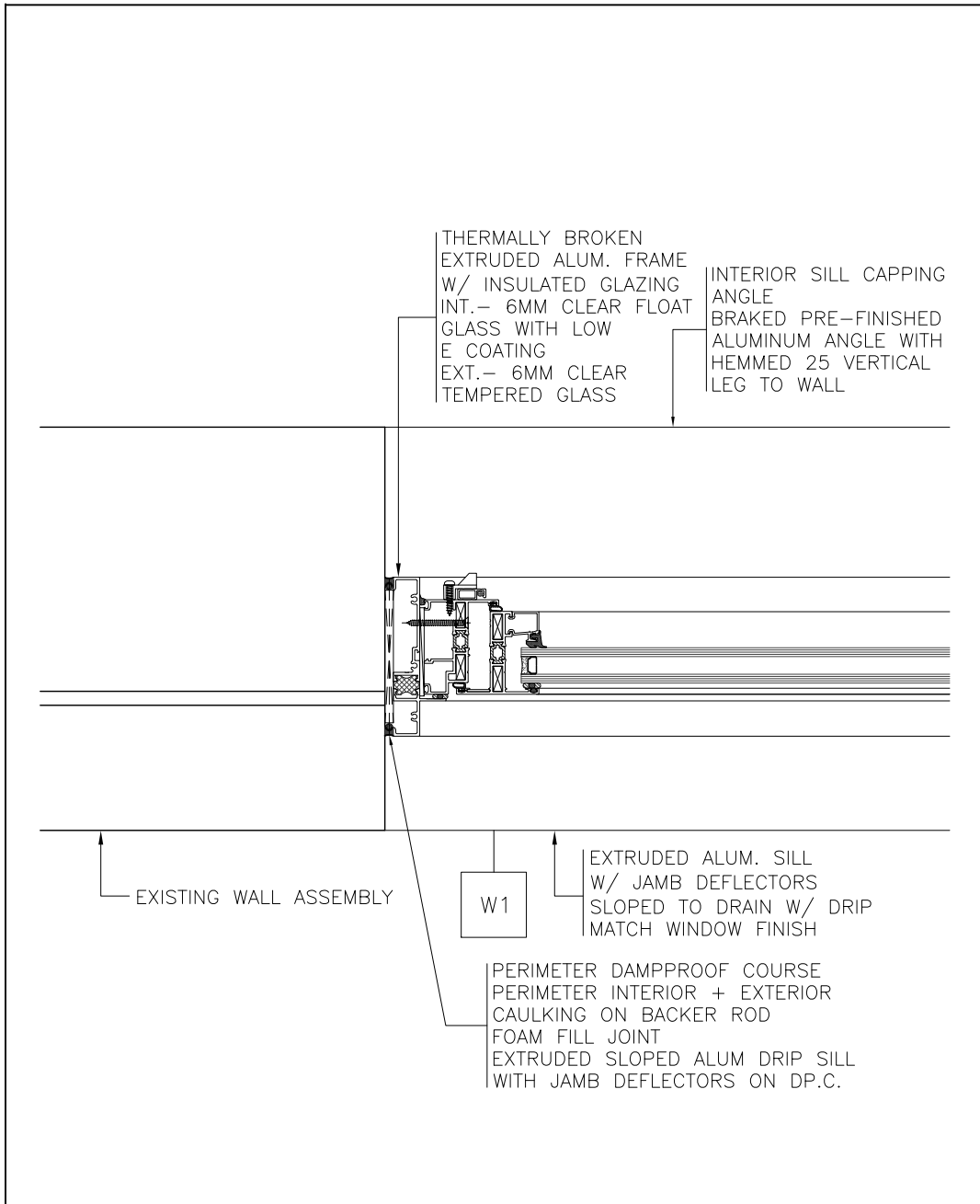
1 WINDOW SILL AT TYPICAL WINDOW W1
A4 DETAIL 1:10



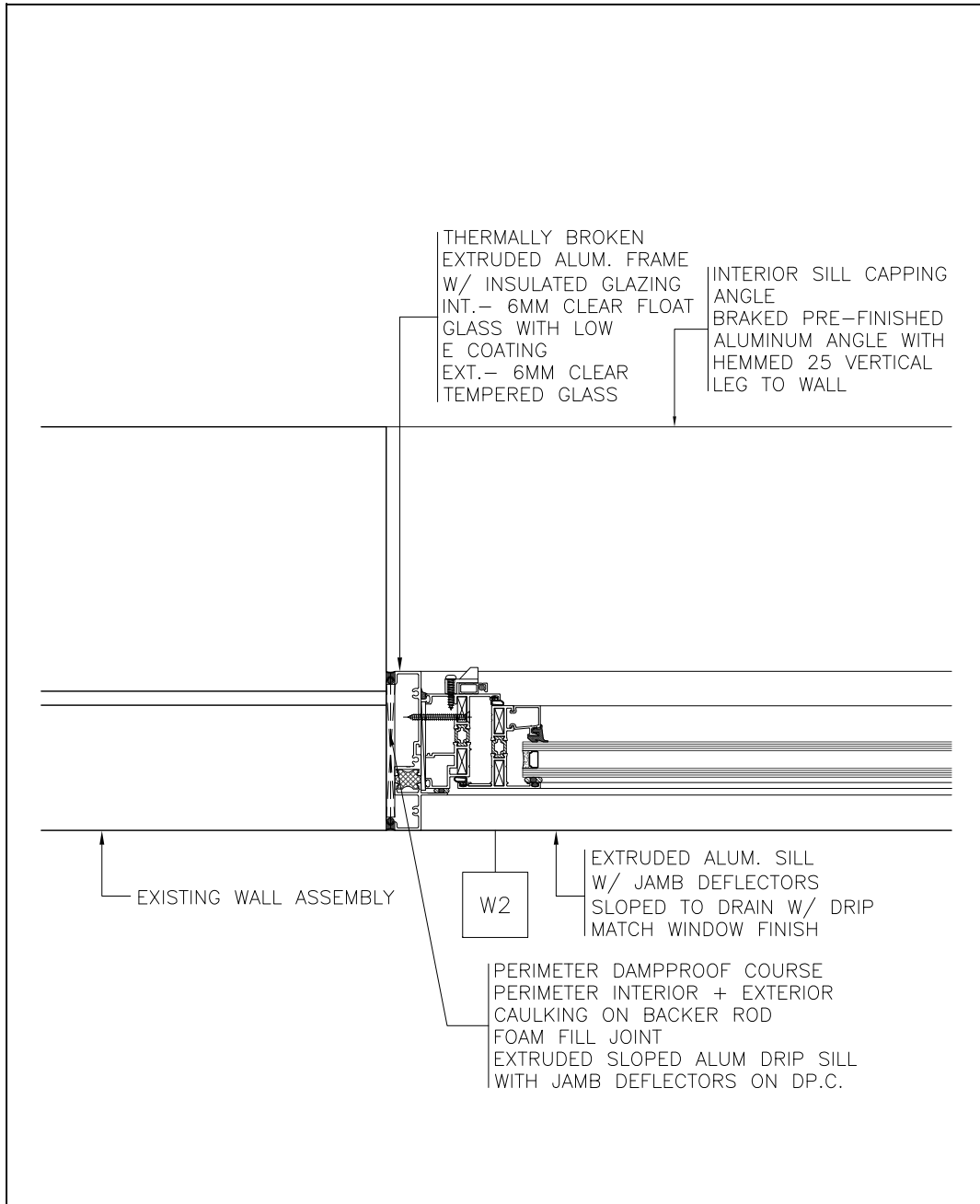
3 WINDOW HEAD AT TYPICAL WINDOW W2
A4 DETAIL 1:5



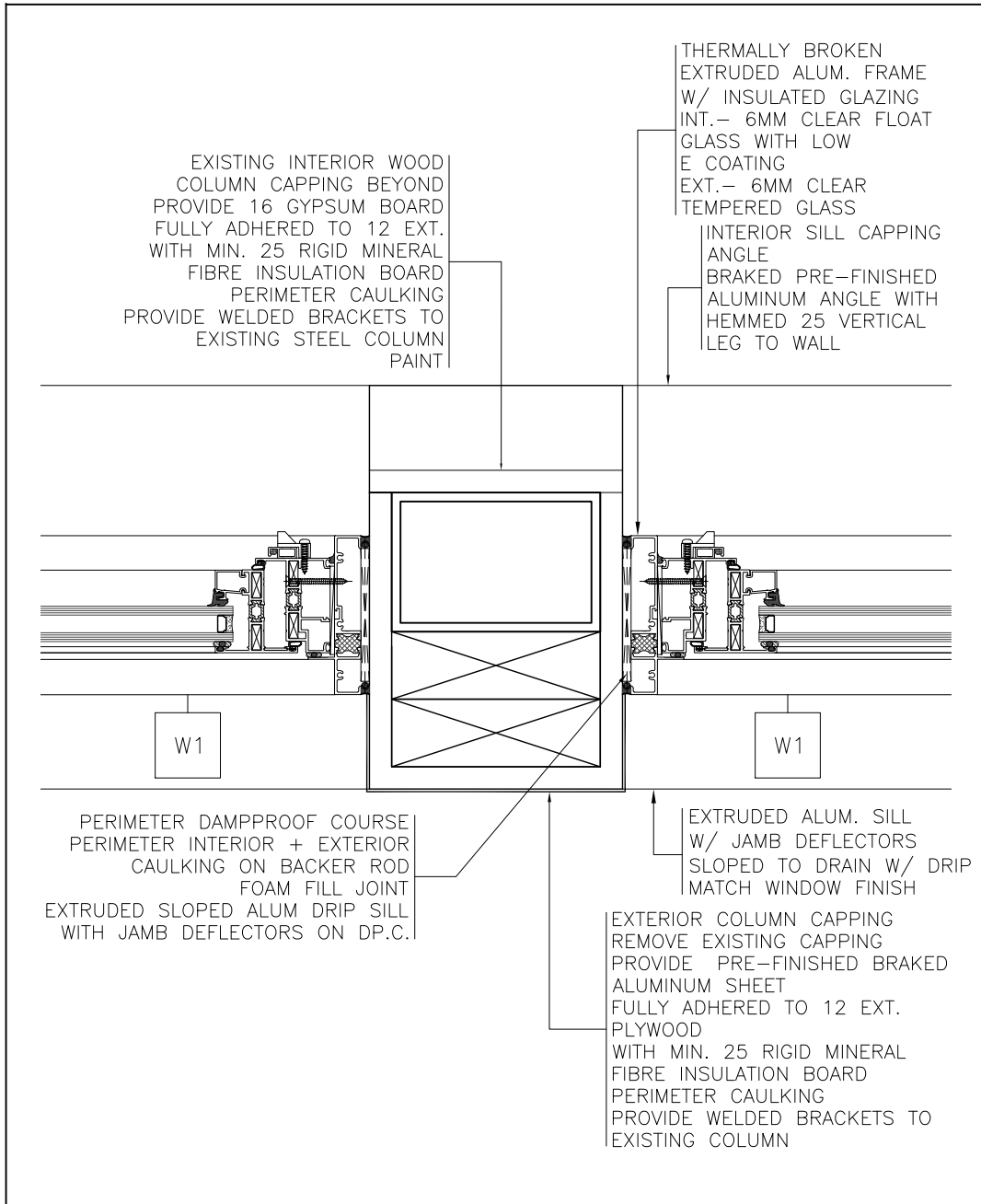
4 WINDOW SILL AT TYPICAL WINDOW W2
A4 DETAIL 1:5



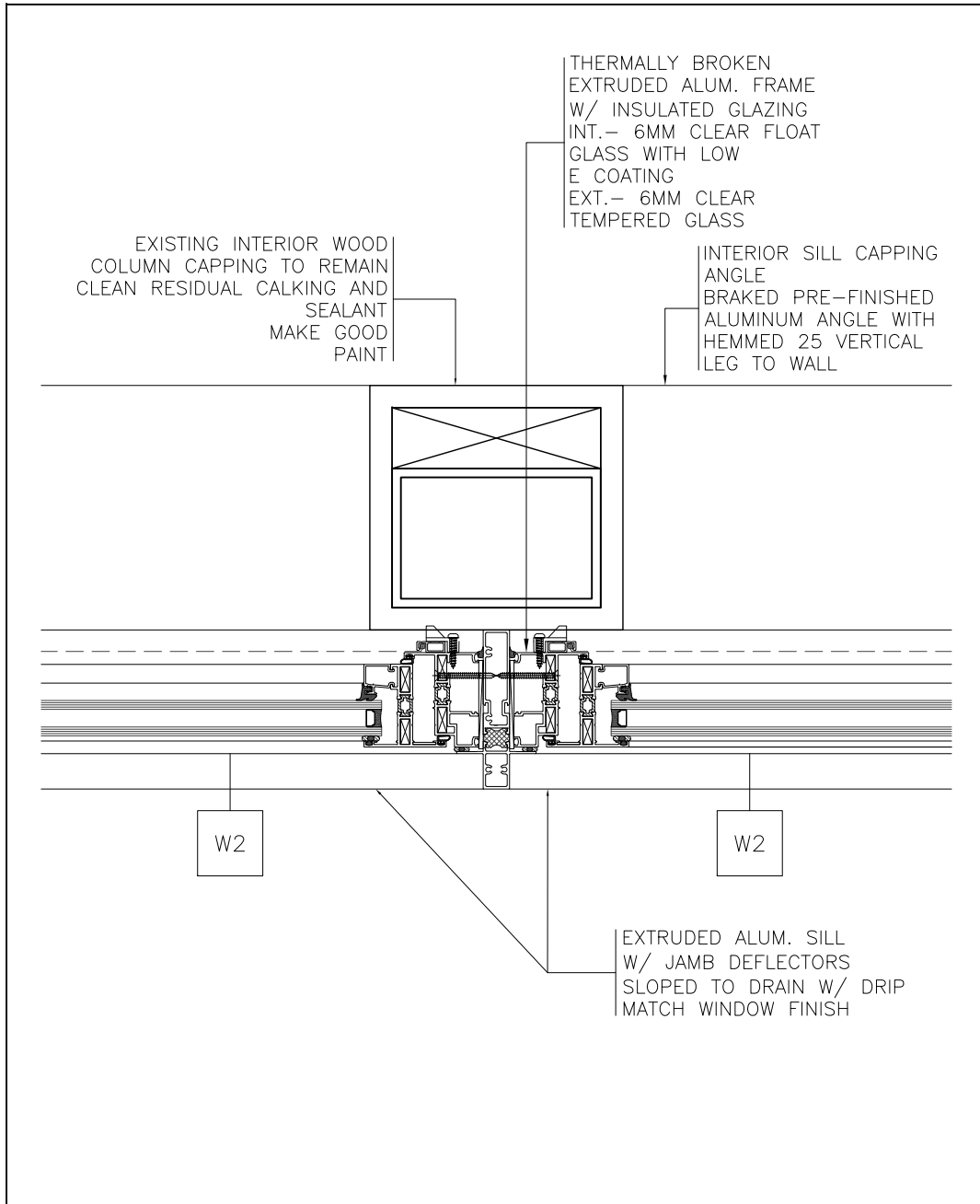
5 WINDOW JAMB AT TYPICAL WINDOW W1
A2 PLAN 1:5



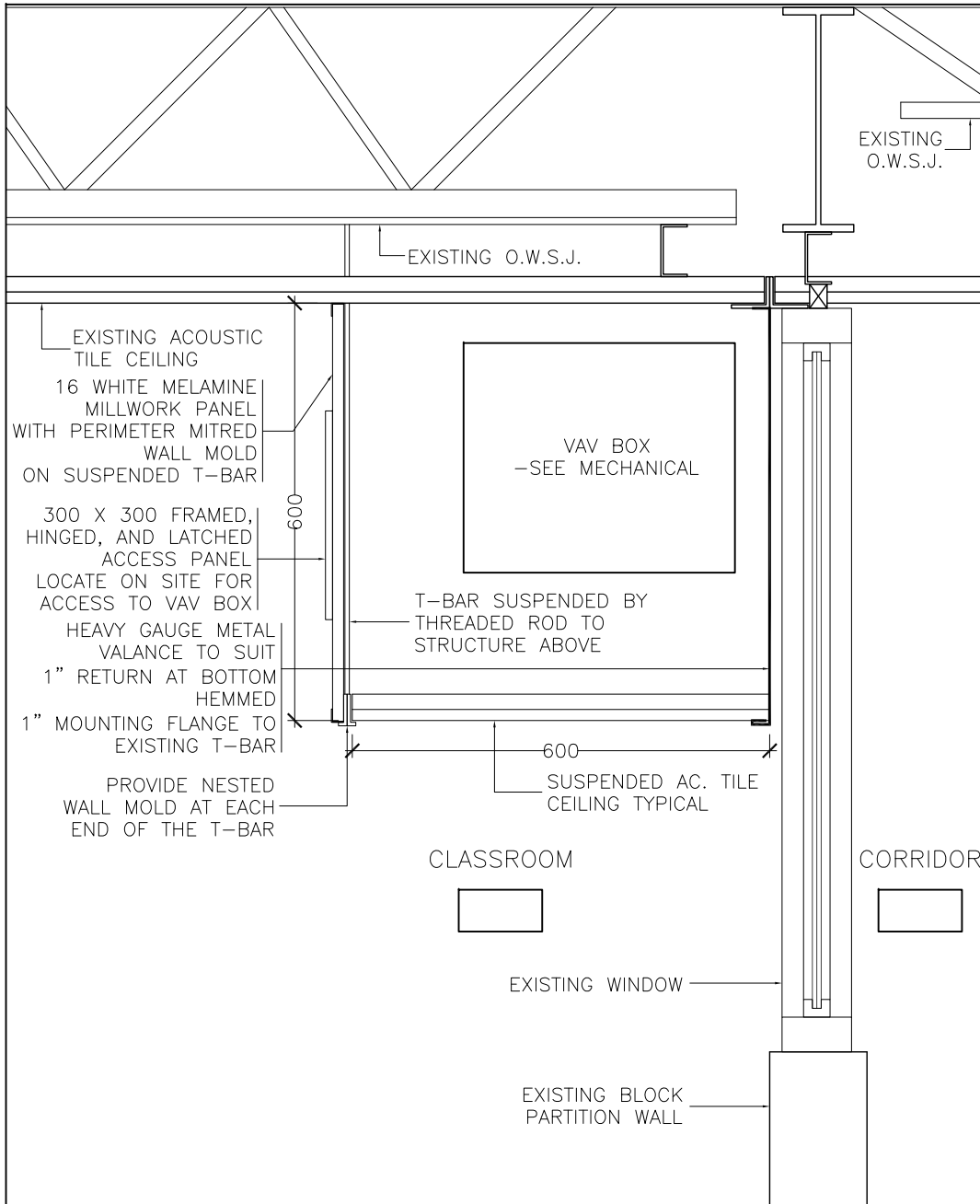
6 WINDOW JAMB AT TYPICAL WINDOW W2
A2 PLAN 1:5



7 WINDOW W1 JAMB AT EXISTING COLUMN
A2 PLAN 1:5



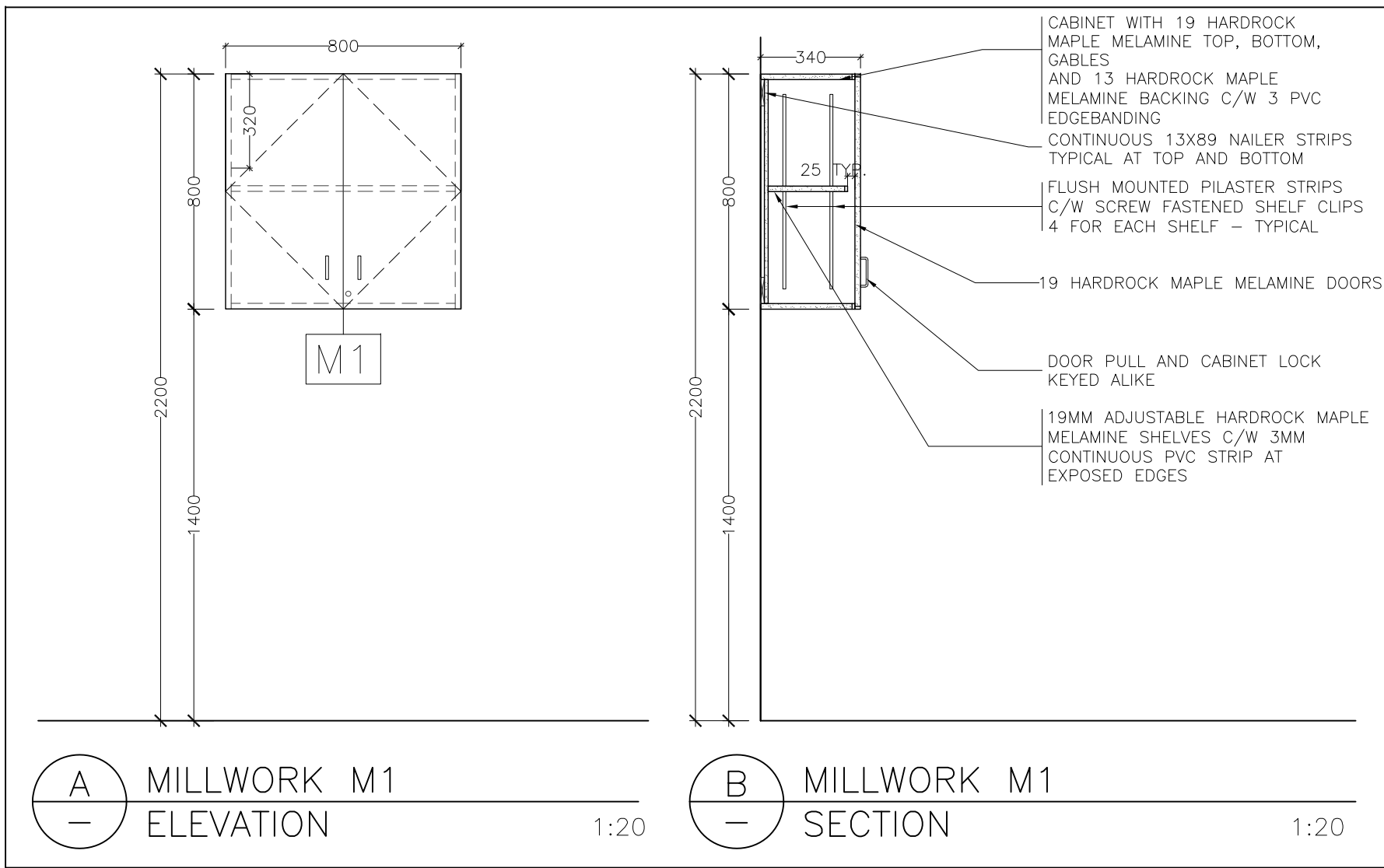
8 WINDOW W2 JAMB AT EXISTING COLUMN
A2 PLAN 1:5



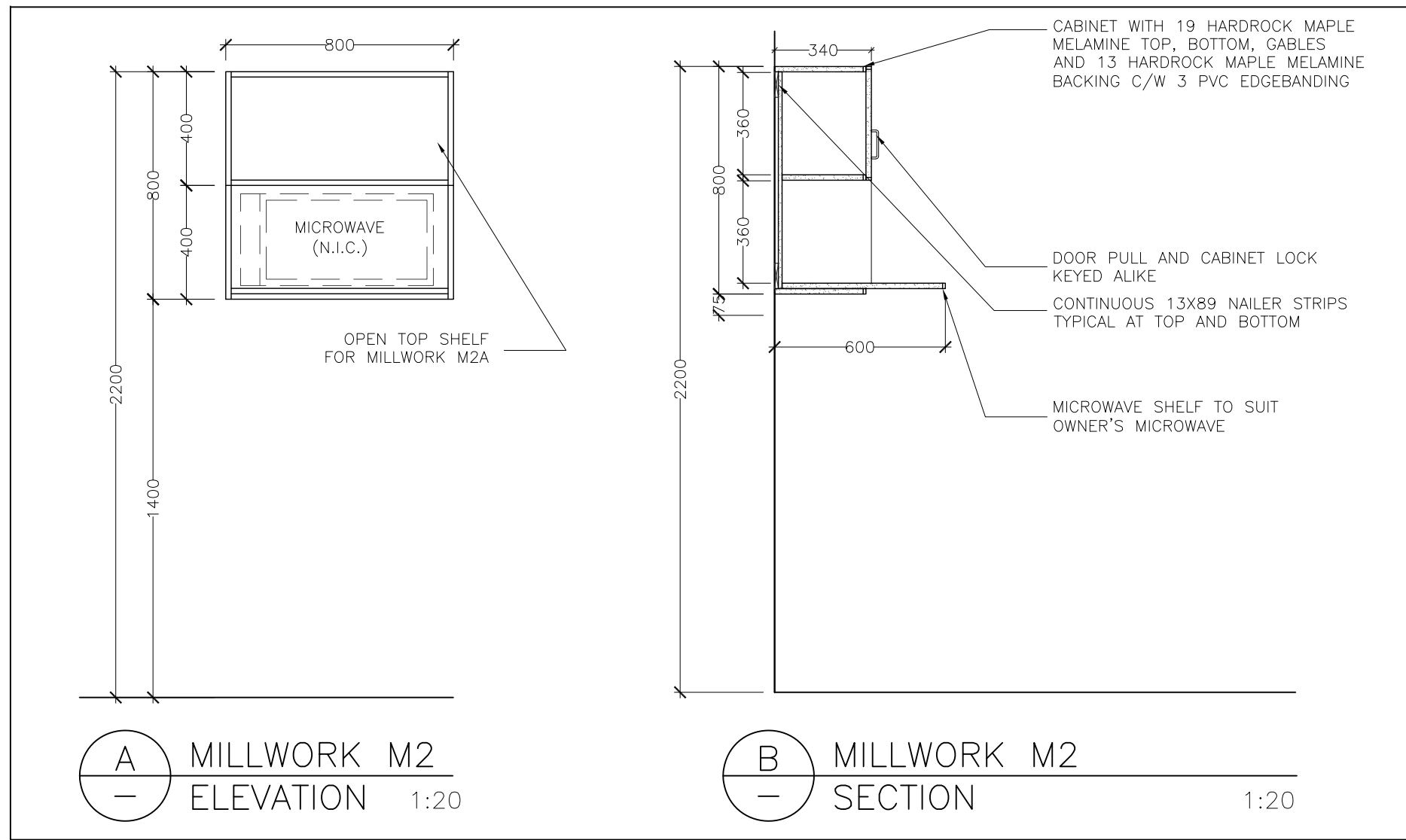
9 BULKHEAD AT VAV BOX AT CORRIDOR WALL
A2 SECTION 1:10



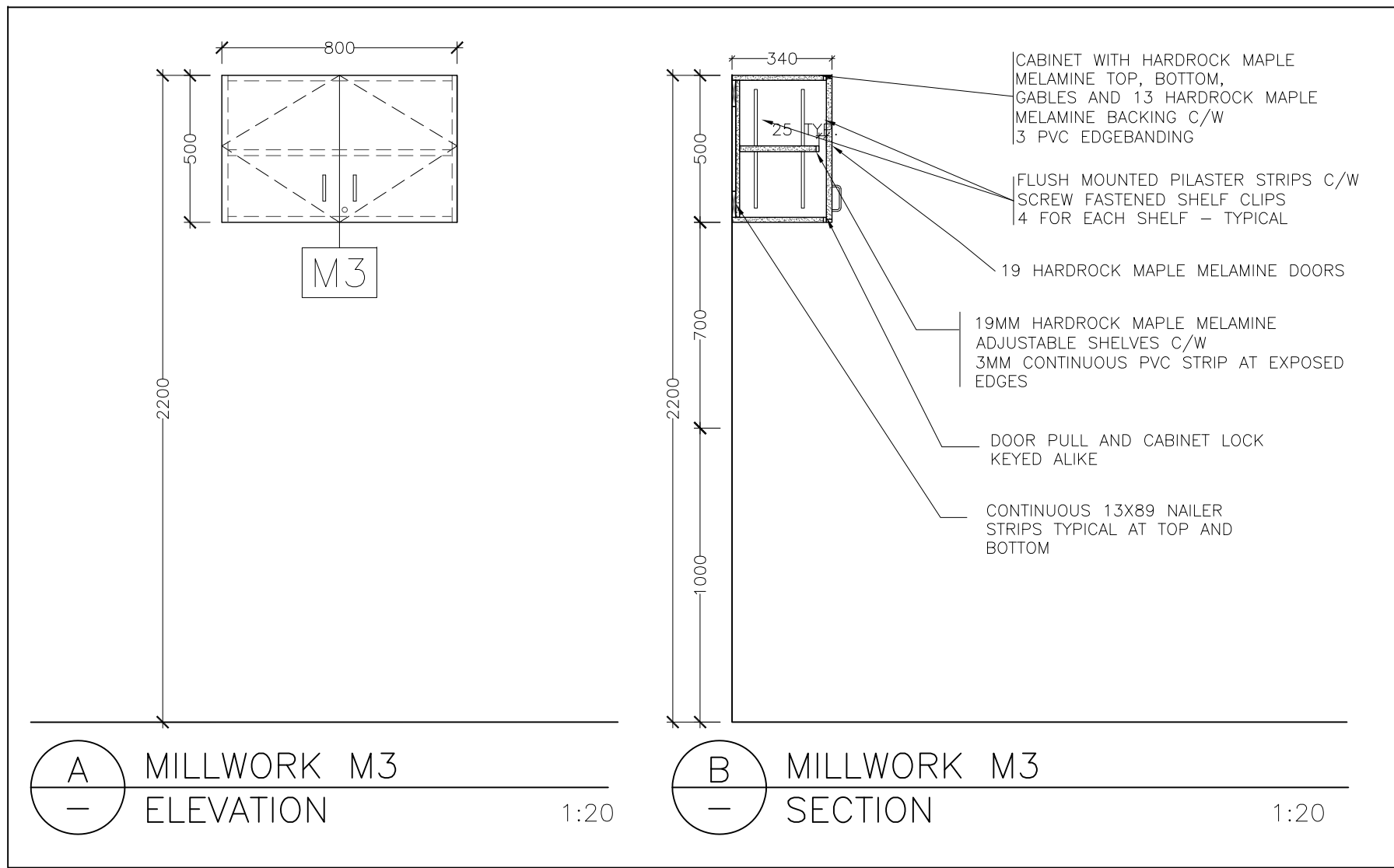
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<div><div><div>RECEIVED BUILDING SERVICES PERMIT NO: 22-111973 DATE: 05/26/2022  TOWN OF OAKVILLE</div></div></div> <div>Project: GLADYS SPEERS PS RENOVATIONS 2150 SAMWAY RD, OAKVILLE, ON L6L 2P6</div> <div><div> Architects inc.</div><div>Unit 100 – 706 Euclid Avenue Toronto, Ontario, Canada M6G 2T9 Tel:(416)591–6575 Fax:(416)591–1010</div><div><div></div><div>Consultant:</div><div>Title: SECTIONS AND DETAILS</div><div><div><div>Drawn by: M.L.</div><div>Checked by: W.L.</div><div>Scale: AS SHOWN</div><div>Job No.: 21153</div><div>Set No.:</div></div><div><div><div>Date: DECEMBER 2021</div><div>Plotted:</div><div>Issued:</div><div>Drawing No.:</div><div>A5</div></div><div>of:</div></div></div></div></div>				



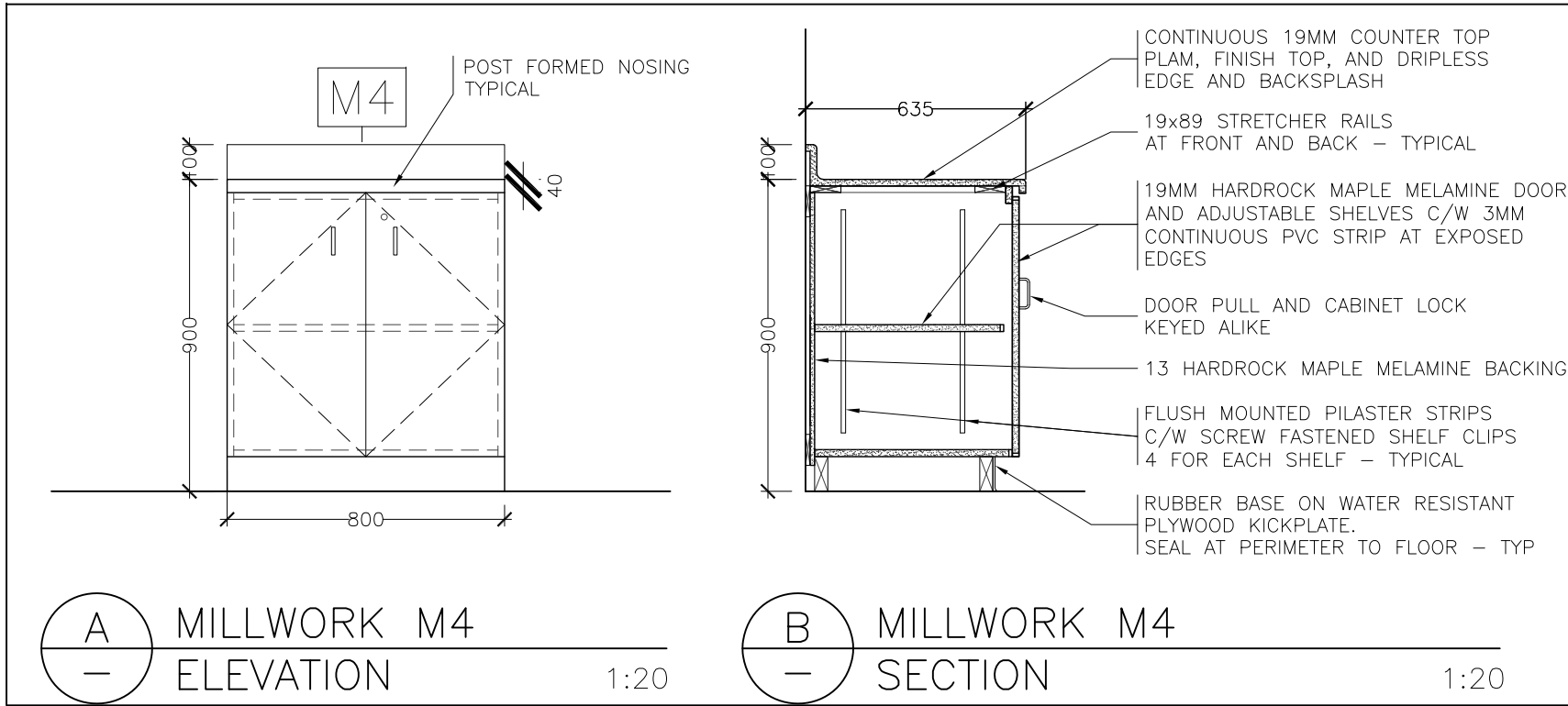
1 MILLWORK M1
A2 DETAILS 1:20



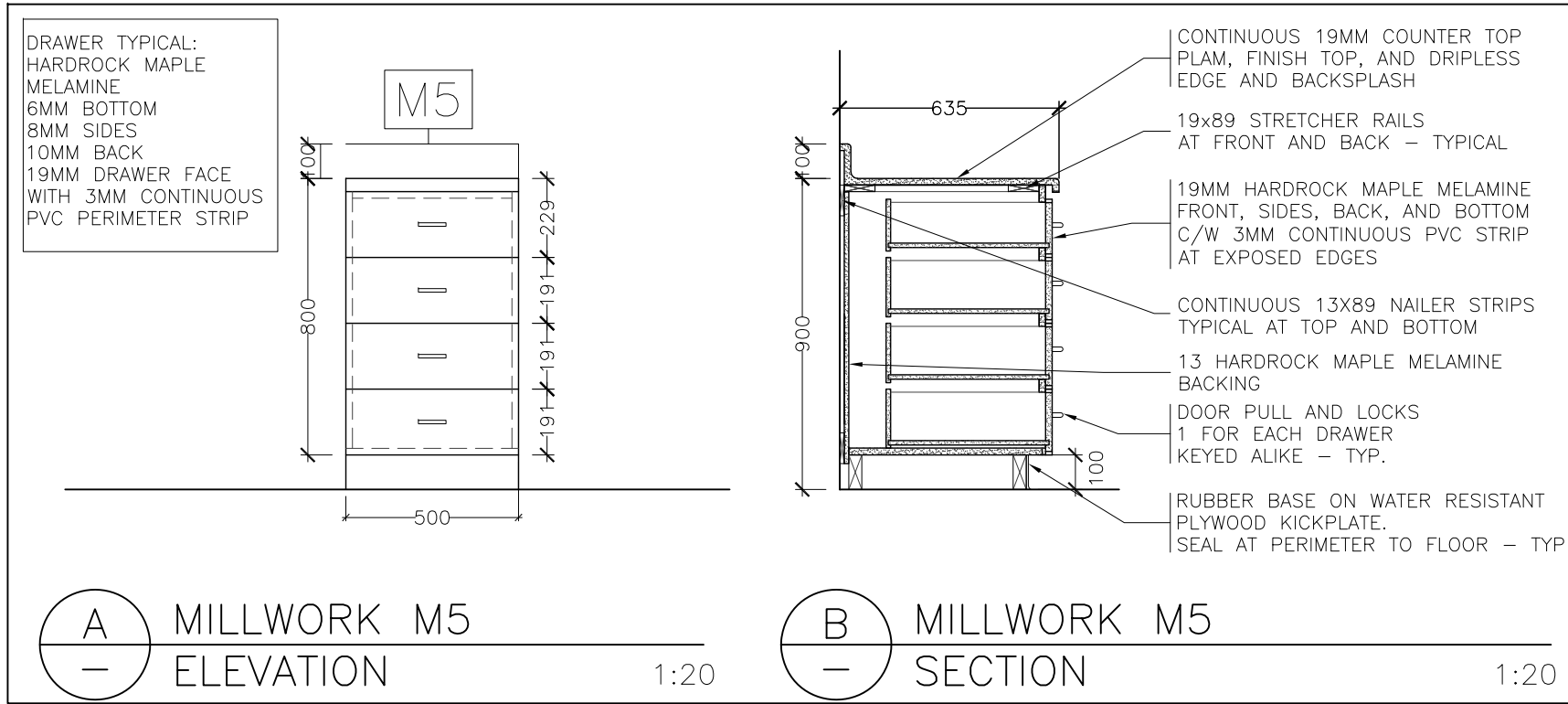
2 MILLWORK M2
A2 DETAILS 1:20



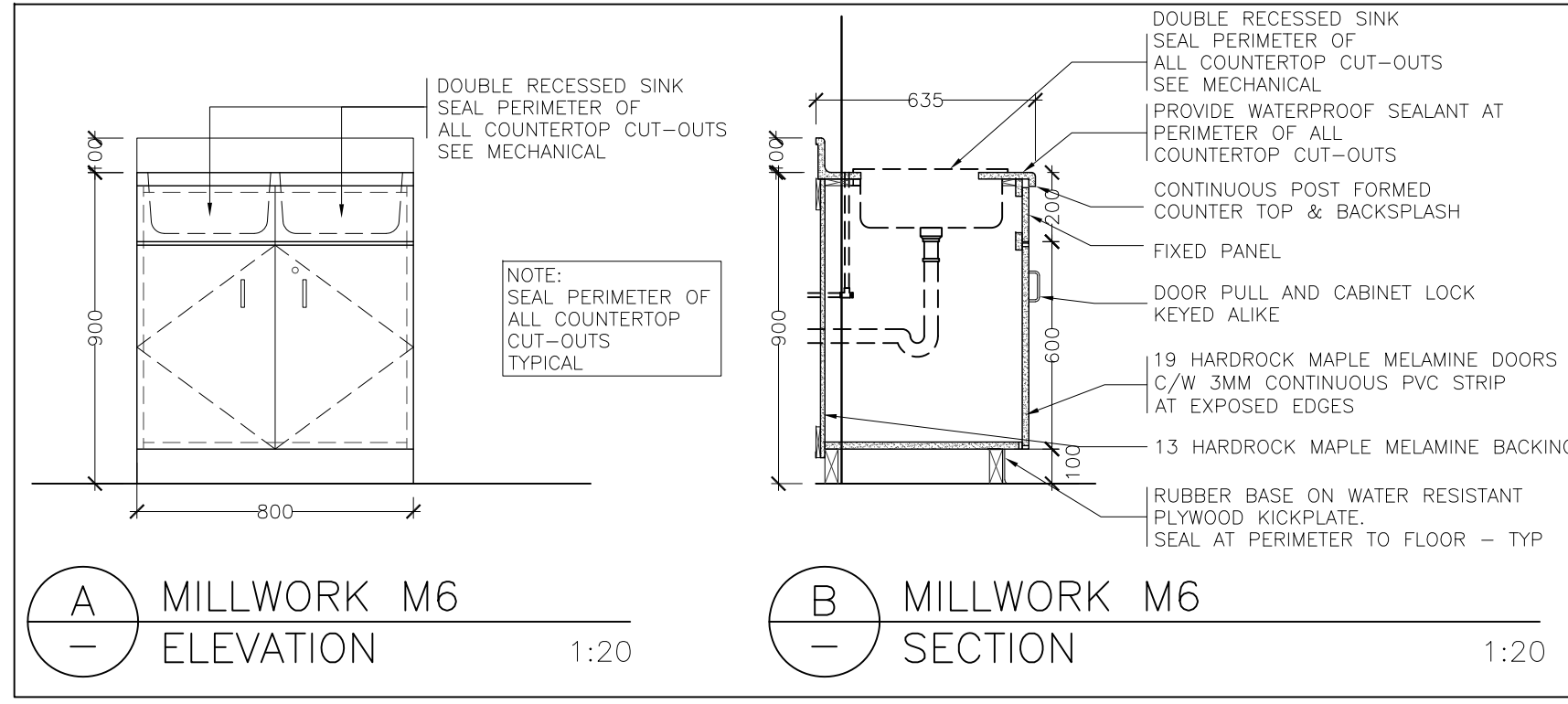
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A10 DETAILS 1:20



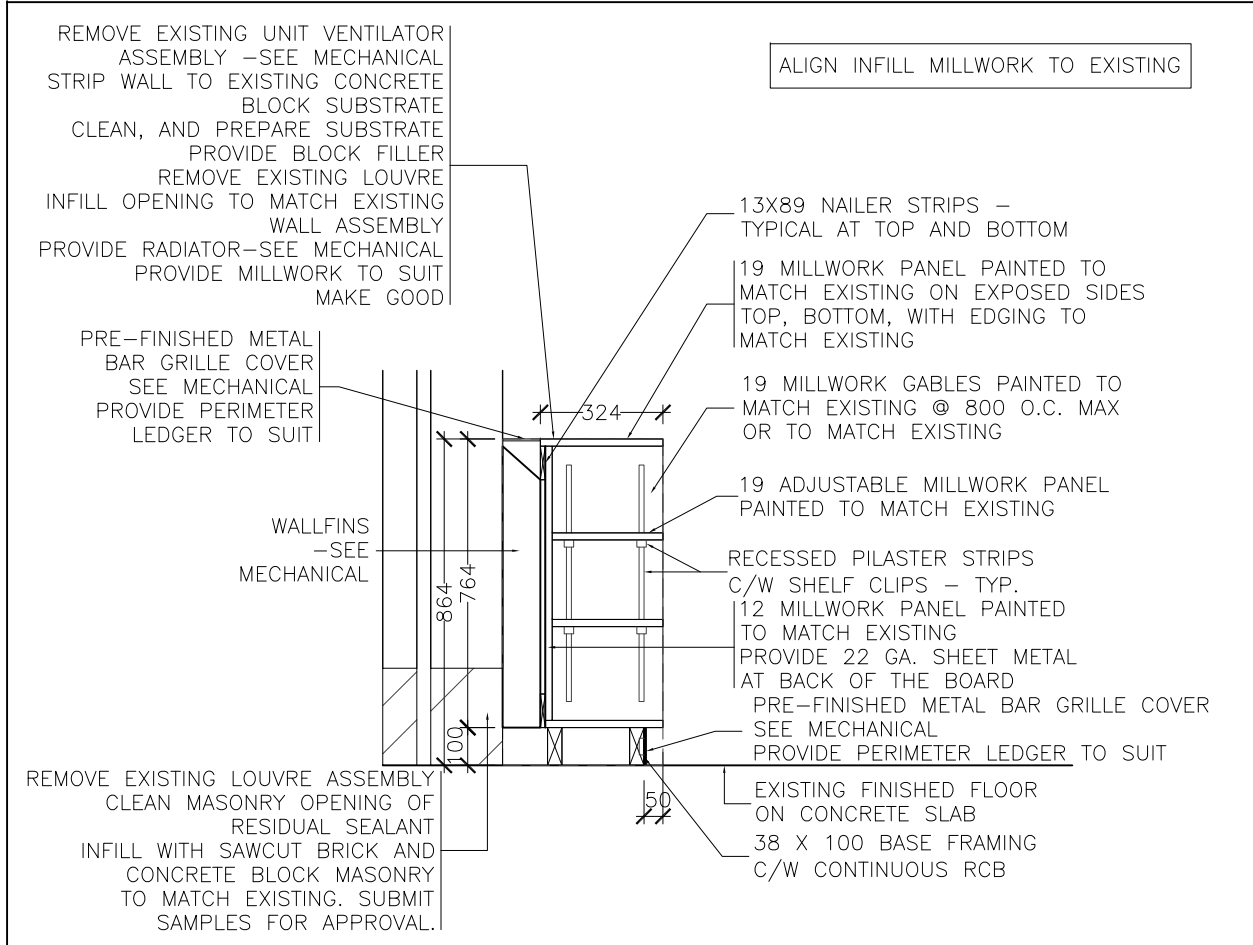
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A2 DETAILS 1:20



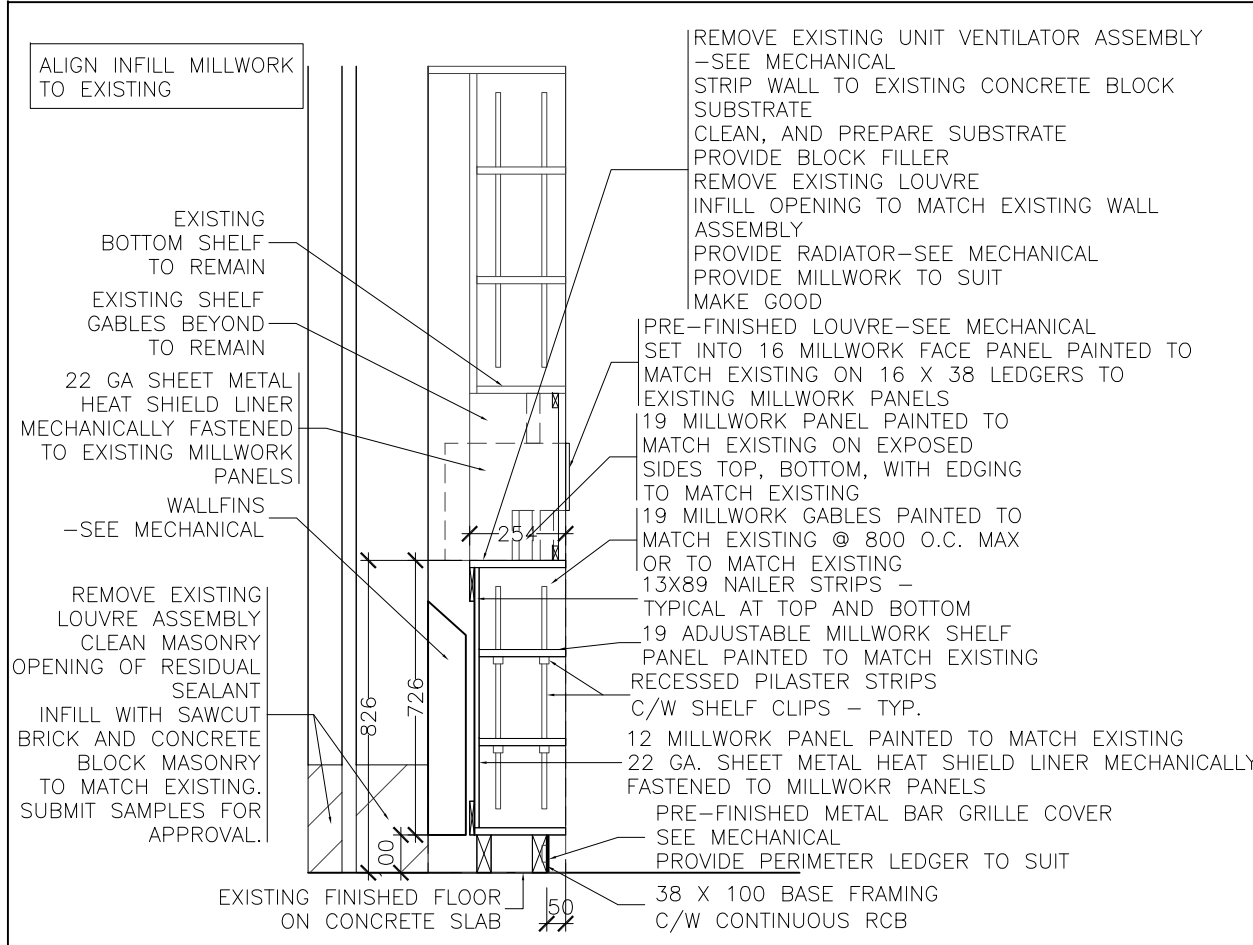
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A2 DETAILS 1:20



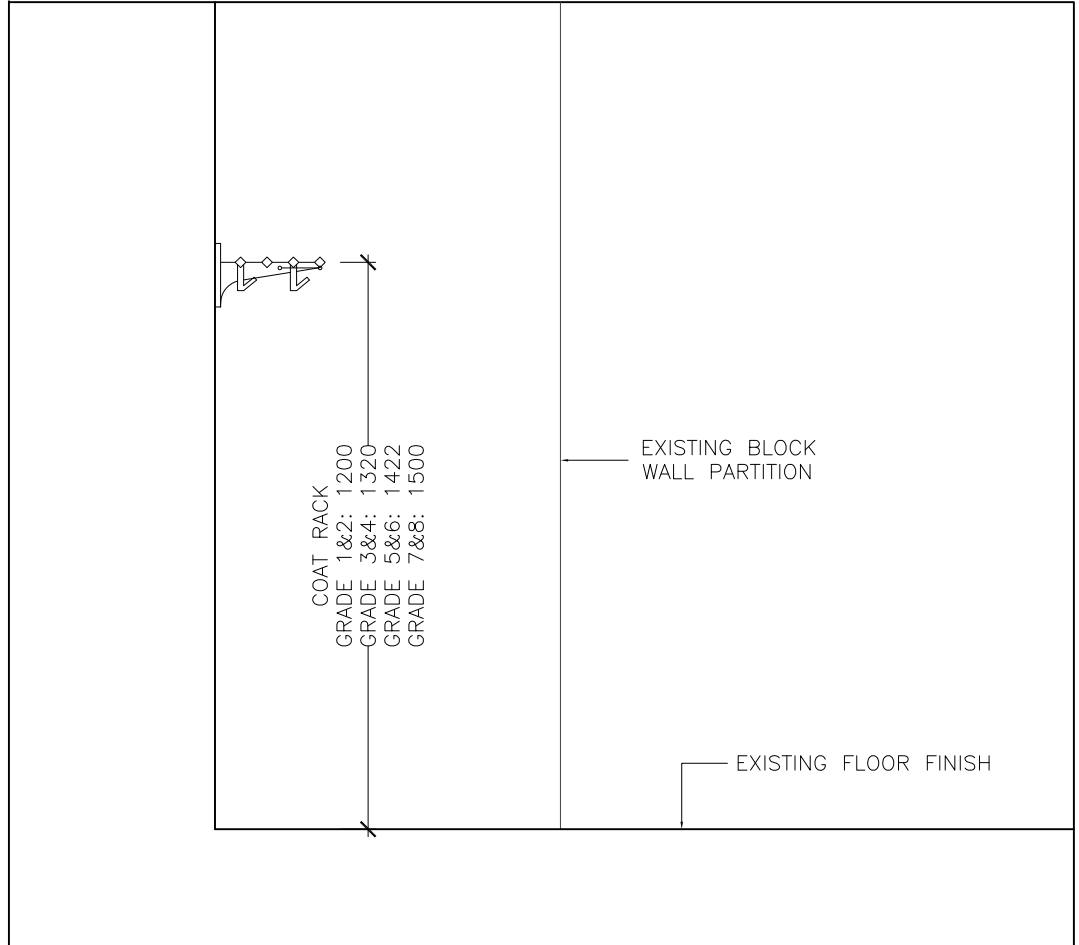
6 MILLWORK M6
A2 DETAILS 1:20



7 M7 SHELVES
A2 SECTION 1:20

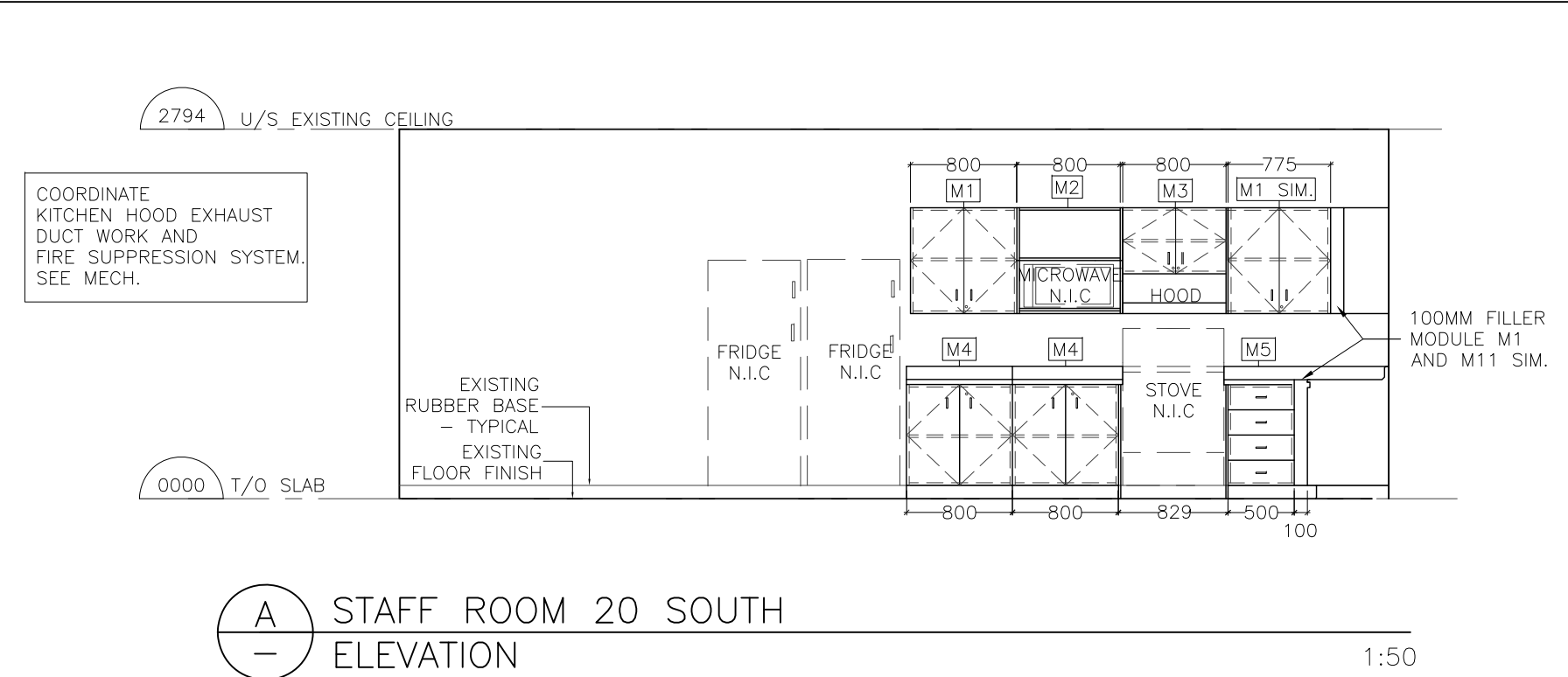
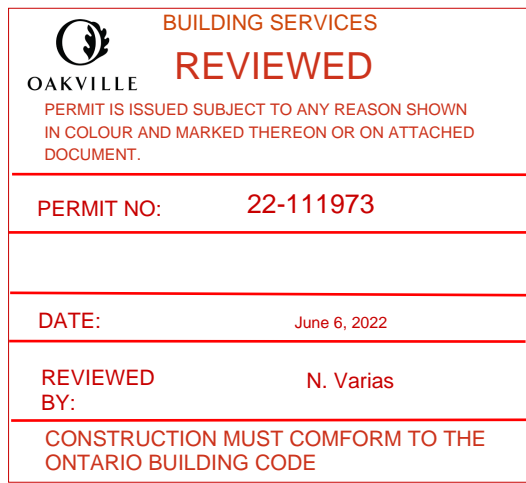


8 M8 SHELVES
A2 SECTION 1:20

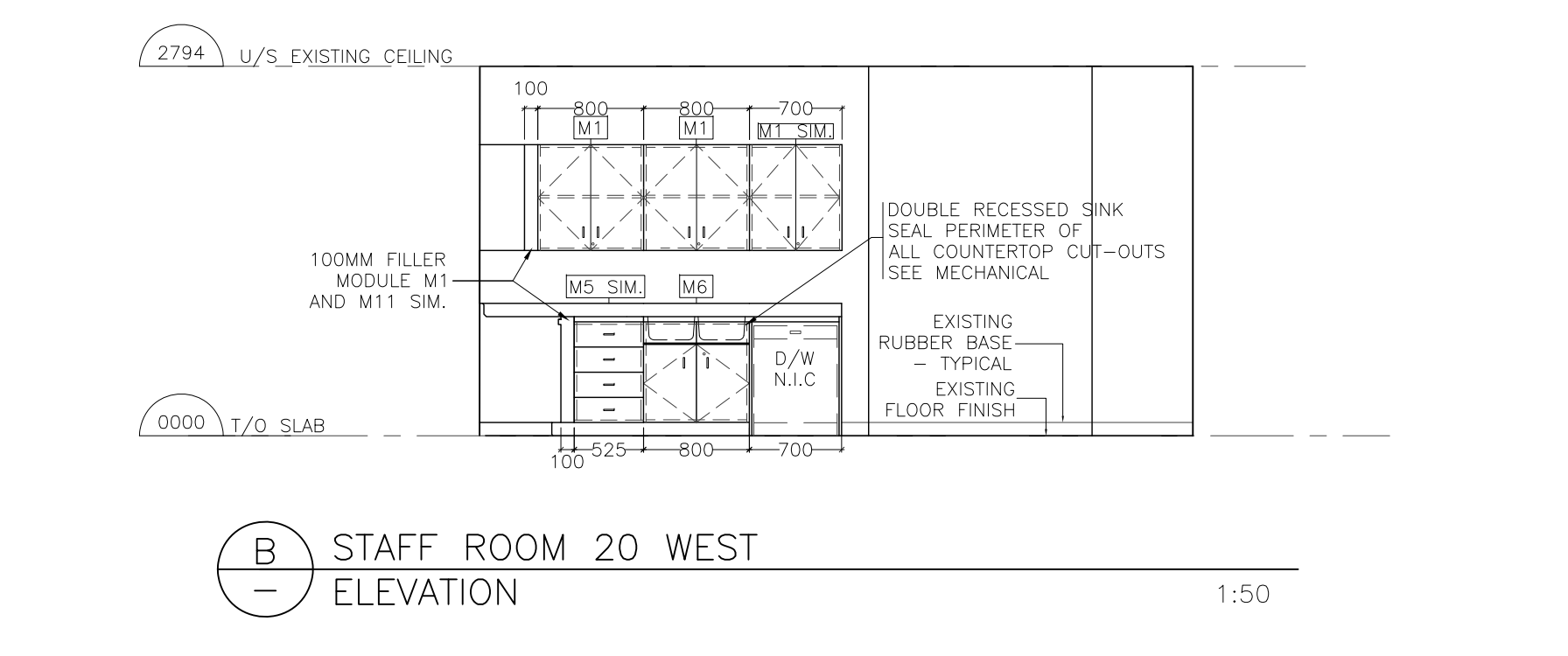


9 COAT RACK
A3 ELEVATION 1:20

NOTE:
CAULK ALL JOINTS OF MILLWORK TO FLOOR.
PROVIDE RUBBER BASE AT ALL MILLWORK KICKS AND GABLES ADJACENT TO FLOOR.



A STAFF ROOM 20 SOUTH
ELEVATION 1:50



B STAFF ROOM 20 WEST
ELEVATION 1:50

10 STAFF ROOM 20 INTERIOR
A2 ELEVATIONS 1:50

Revisions				
Ref.	No.	Description	Date	Initial
△		CLIENTS REVIEW	2022/02/18	
△		CONSULTANTS COORDINATION	2022/02/24	
△		CONSULTANTS COORDINATION	2022/04/14	
△		CONSULTANTS COORDINATION	2022/04/19	
△		PRE-TENDER SUBMISSION	2022/04/27	
△		ISSUED FOR PERMIT AND TENDER	2022/05/02	



Project:
GLADYS SPEERS PS
RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6



Unit 100 – 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591–6575 Fax:(416)591–1010



Consultant:

Title:
MILLWORK DETAILS AND
INTERIOR ELEVATIONS

Drawn by:
M.L.

Date:
DECEMBER 2021

Checked by:
W.L.

Plotted:

Scale:
AS SHOWN

Issued:

Job No.:
21153

Drawing No.:

Set No.:
A6
of:

GENERAL NOTES

1. THE NEW RTU SUPPORT FRAMING AND EXISTING ROOF FRAMING HAS BEEN DESIGNED AND REVIEWED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012, AMENDED BY RESOLUTION 88/19, EFFECTIVE JANUARY 1, 2020.
2. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS WITH THE SITE CONDITIONS AND THE LATEST ISSUE OF ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REPORT ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.
3. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH SPECIFICATIONS AND OTHER CONTRACT DOCUMENTS.
4. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF OPENINGS, EQUIPMENT BASES, SUMP PITS, AND TRENCHES NOT INDICATED ON STRUCTURAL DRAWINGS.
5. SEE DRAWINGS FOR DESIGN LOADS. DO NOT EXCEED DURING CONSTRUCTION.
6. ALL REFERENCES TO CODES & STANDARDS ARE TO THE LATEST ISSUE.

SITE INSPECTION REPORTS & TESTING

1. THE ONTARIO BUILDING CODE 2012 SPECIFIES THAT GENERAL FIELD REVIEWS OF THE BUILDING BE CARRIED OUT DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE START OF CONSTRUCTION TO FACILITATE SUCH REVIEWS BY THE STRUCTURAL ENGINEER.

SHOP DRAWINGS

1. THE CONTRACTOR SHALL FURNISH SHOP DRAWINGS TO THE STRUCTURAL ENGINEER, A MINIMUM OF ONE REPRODUCIBLE AND TWO PRINTS STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
 - A) STRUCTURAL STEEL ERECTION DRAWINGS.
 - B) STEEL MOMENT CONNECTIONS.

STRUCTURAL METAL

1. CONFORM TO CSA STANDARD CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES.
2. CONFORM TO CSA STANDARD W55.3, RESISTANCE WELDING QUALIFICATIONS CODE FOR FABRICATORS OF STRUCTURAL MEMBERS USED IN BUILDINGS.
3. CONFORM TO CSA STANDARD W59, WELDED STEEL CONSTRUCTION (METAL ARC WELDING).
4. WELDING ELECTRODES - CSA STANDARD W48, FILLER METALS AND ALLIED MATERIALS FOR METAL ARC WELDING.
5. STRUCTURAL STEEL - CSA STANDARD G40.20/G40.21, GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL/STRUCTURAL QUALITY STEELS, GRADE 350W FOR GENERAL PURPOSE STRUCTURAL STEEL SHAPES, 300W FOR ANGLES, CHANNELS, RODS AND PLATES. HOLLOW STRUCTURAL SECTIONS SHALL CONFORM TO CSA STANDARD G40.20 GRADE 350W, HOT FORM WELDED OR HOLLOW STRUCTURAL SECTION, CLASS H.
6. HIGH STRENGTH BOLTS, NUTS AND WASHERS A.S.T.M. STANDARD A325, STANDARD SPECIFICATION FOR STRUCTURAL BOLTS, STEEL, HEAT TREATED 120/105 ksi MINIMUM TENSILE STRENGTH OR A325M, STANDARD SPECIFICATION FOR HIGH STRENGTH BOLTS FOR STRUCTURAL STEEL JOINTS (METRIC).
7. ANCHOR RODS - A.S.T.M. F1554 GRADE 36
8. PRIMER:
 - A) HOT DIPPED GALVANIZED AS PER CAN/CSA-G164 HOT DIP GALVANIZING OF IRREGULARLY SHAPED ARTICLES.

DESIGN LOADS

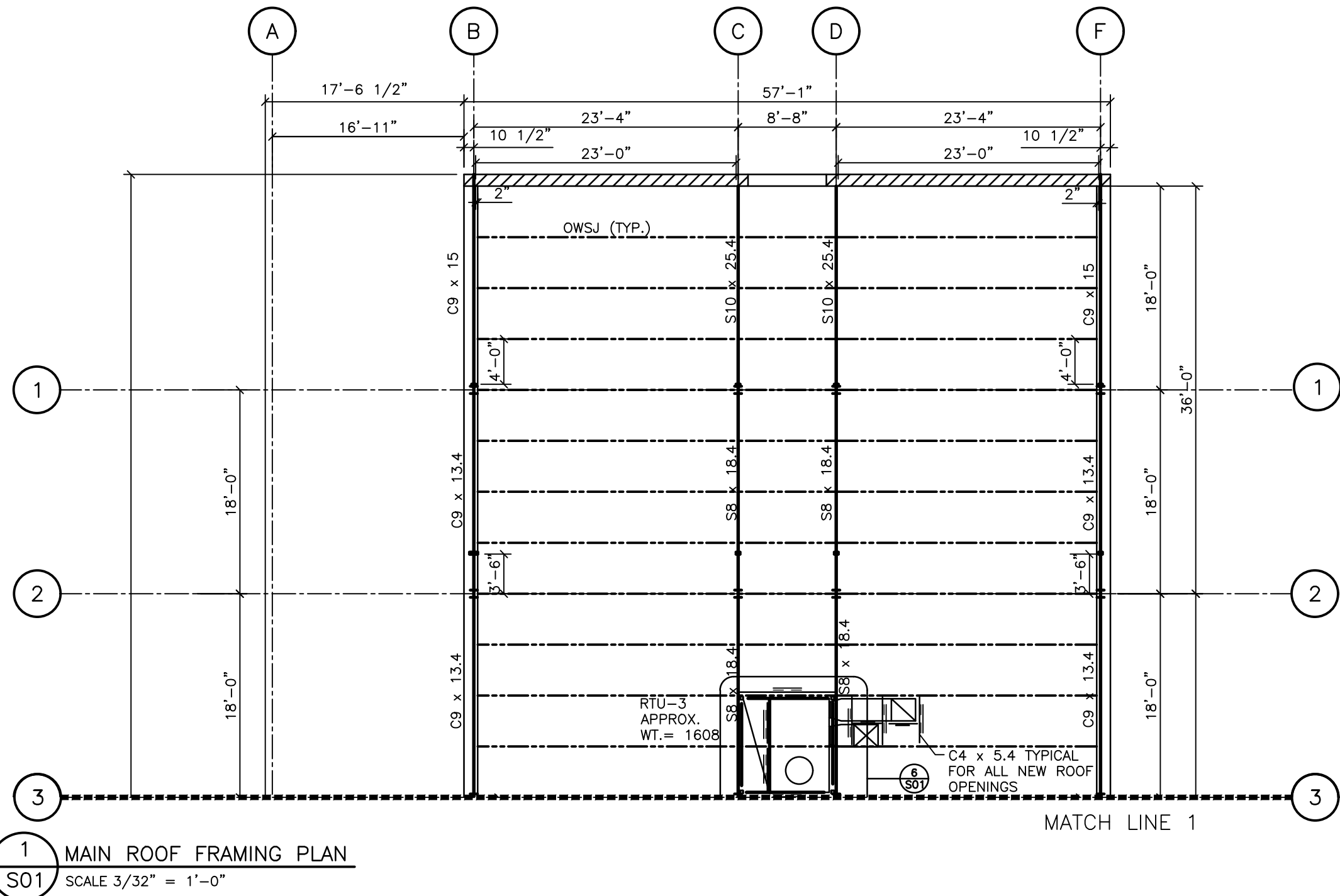
BUILDING IMPORTANCE: HIGH

ROOF

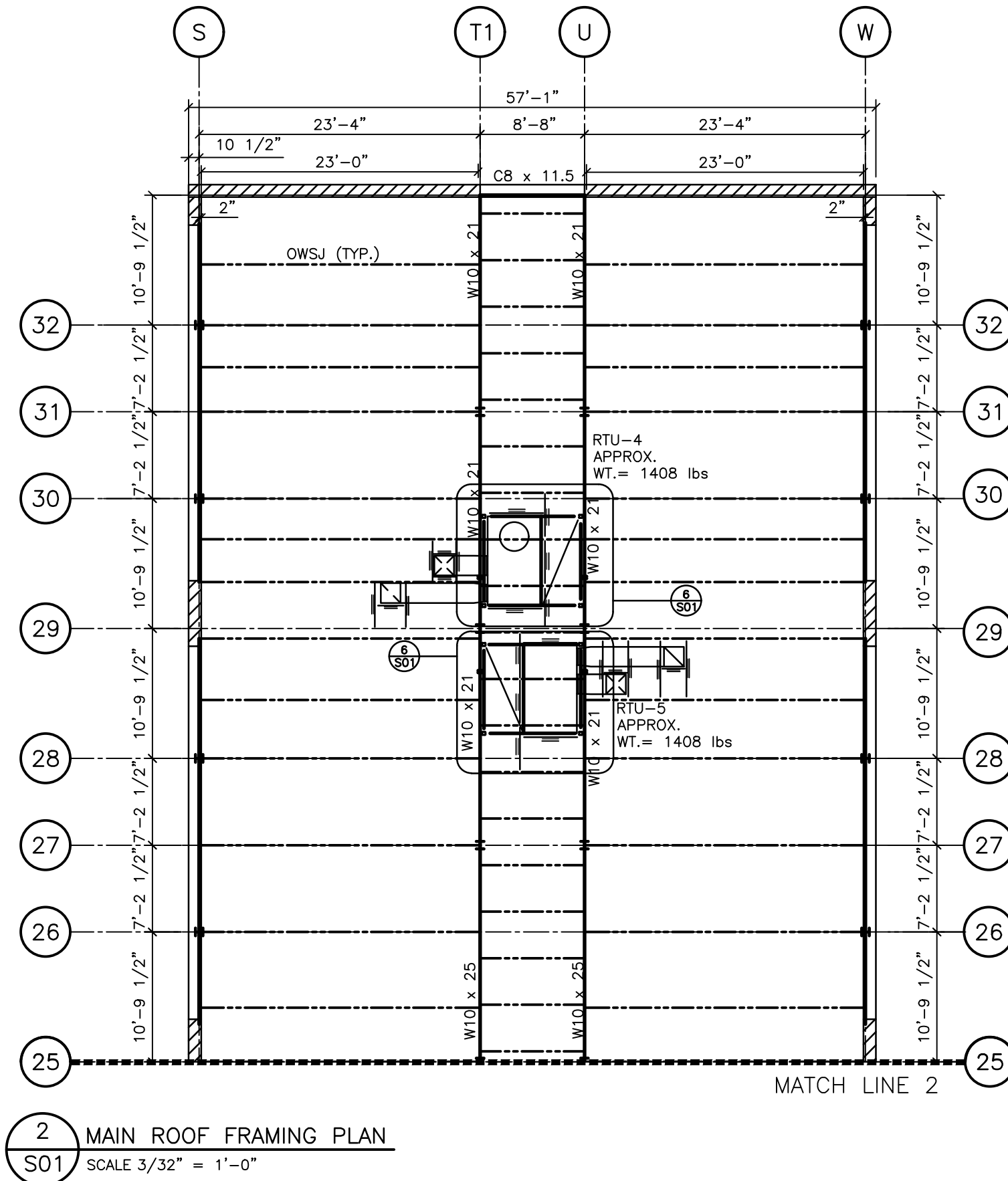
SNOW LOAD: 30.71 PSF
DEAD LOAD: 22.0 PSF

WIND LOAD

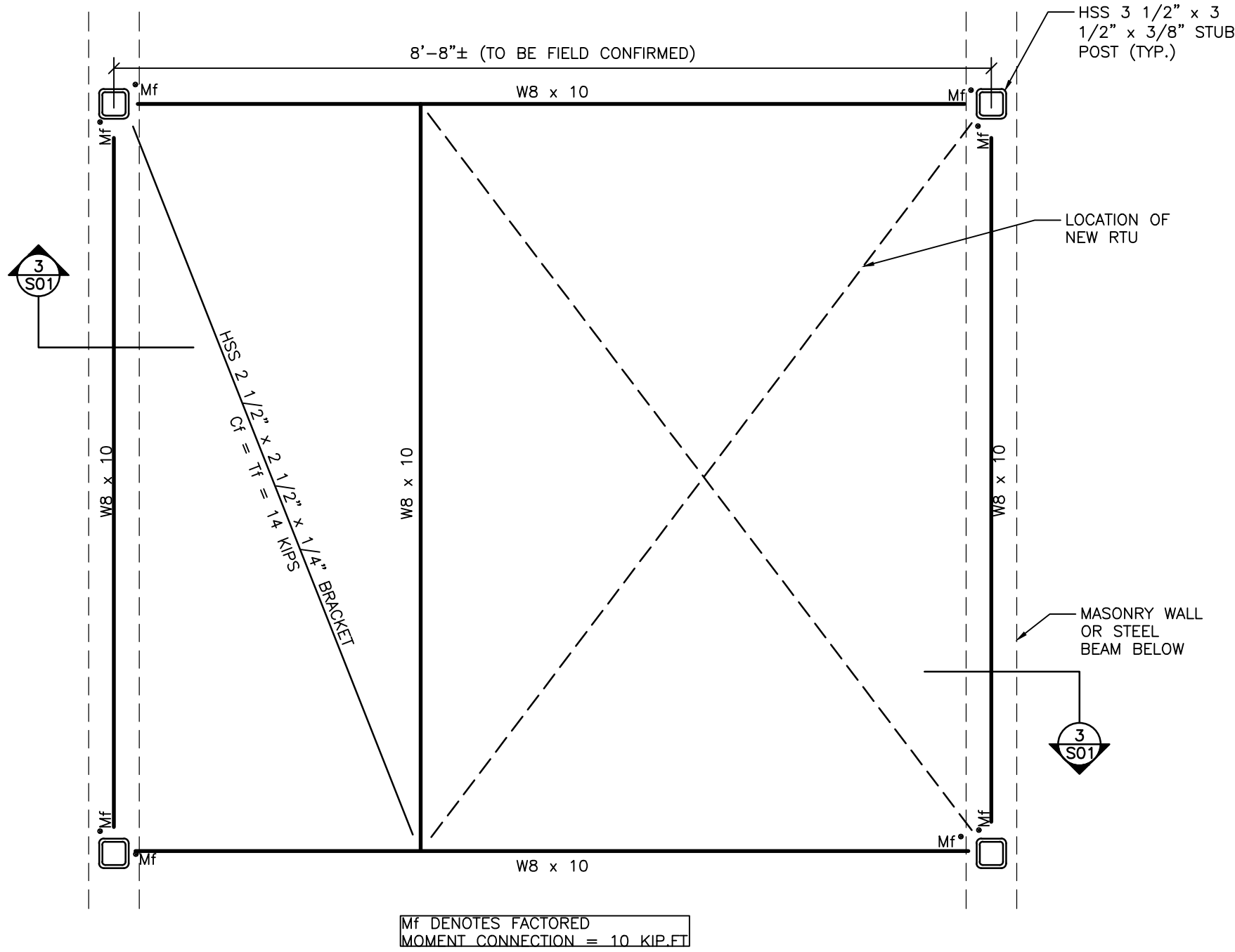
q 1/50= 9.82 PSF



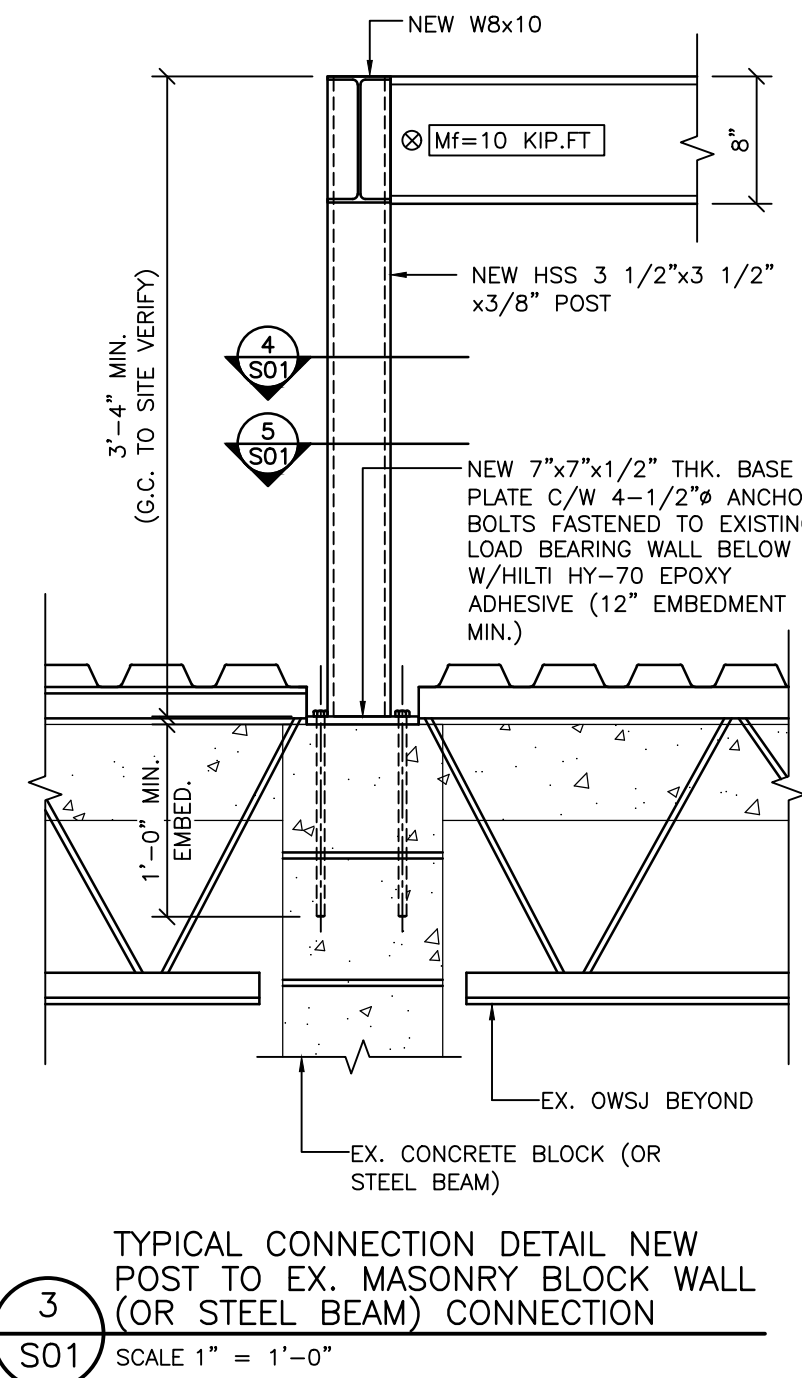
1 MAIN ROOF FRAMING PLAN
S01 SCALE 3/32" = 1'-0"



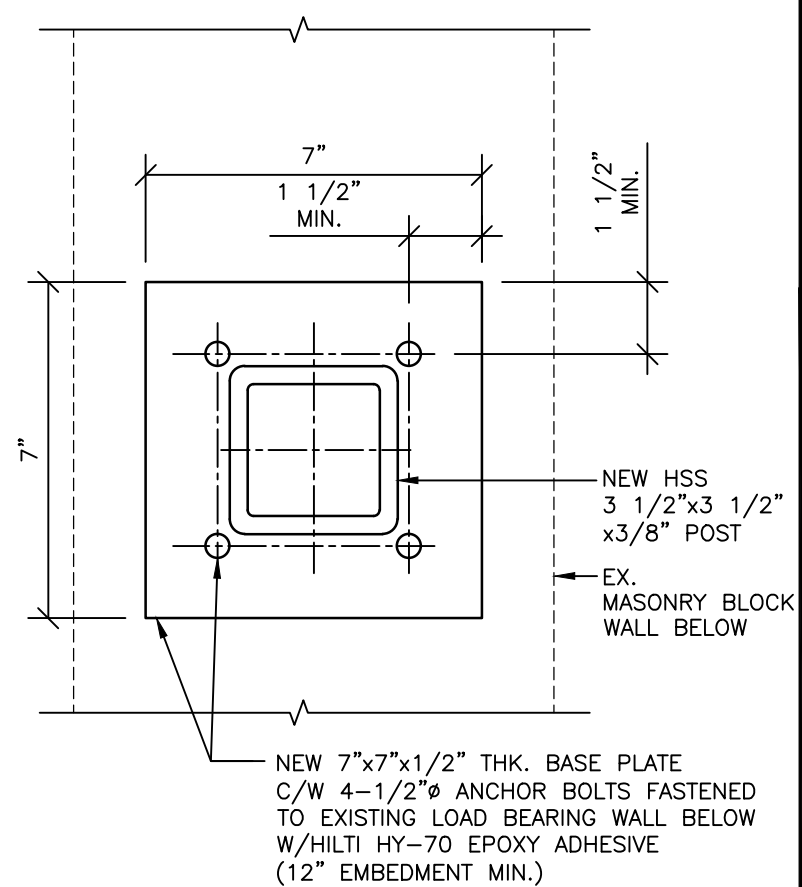
2 MAIN ROOF FRAMING PLAN
S01 SCALE 3/32" = 1'-0"



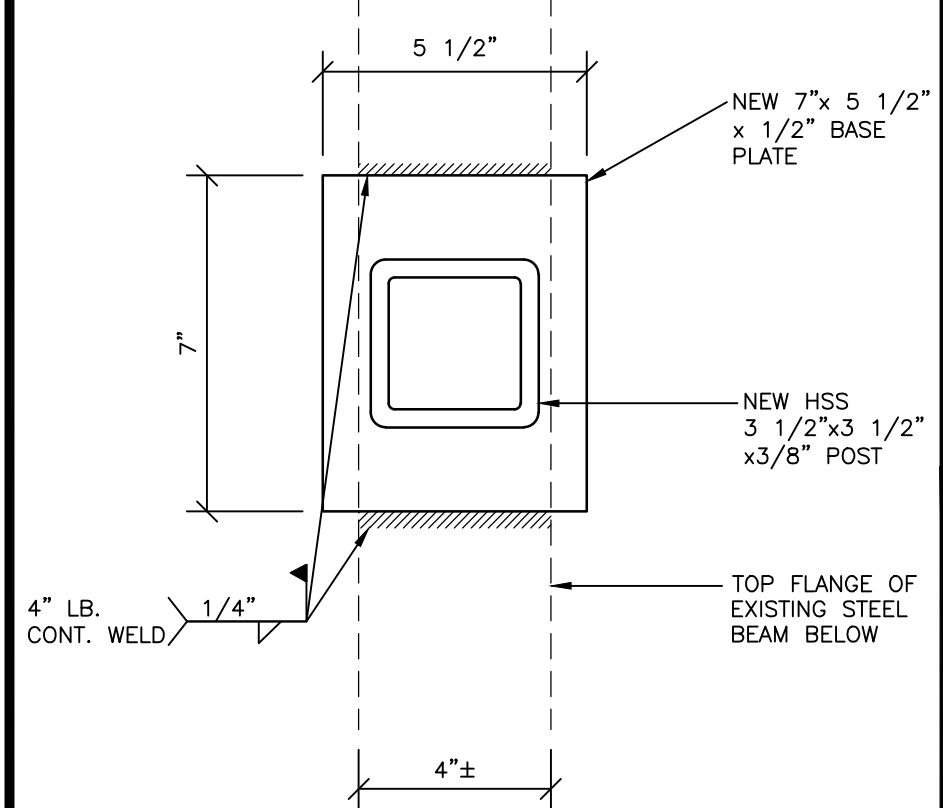
6 TYPICAL NEW RTU SUPPORT FRAMING PLAN
S01 SCALE 3/4" = 1'-0"



3 TYPICAL CONNECTION DETAIL NEW POST TO EX. MASONRY BLOCK WALL (OR STEEL BEAM) CONNECTION
S01 SCALE 1" = 1'-0"



4 TYPICAL BASE PLATE DETAIL (AT MASONRY BLOCK WALL)
S01 SCALE 3" = 1'-0"



5 TYPICAL BASE PLATE DETAIL (AT EXISTING STEEL BEAM LOCATIONS)
S01 SCALE 3" = 1'-0"

	BUILDING DIVISION OAKVILLE REVIEWED
PERMIT NO:	22-111973
Structural Plans Review	
DATE:	6/9/2022
REVIEWED BY:	hbays

RECEIVED
BUILDING SERVICES
PERMIT NO: 22-111973
DATE: 05/26/2022
OAKVILLE TOWN OF OAKVILLE

Revisions		
NO.	DESCRIPTION	DATE

Issue Table	
ISSUE DESCRIPTION	DATE
ISSUED FOR CLIENT REVIEW	04/18/22
ISSUED FOR TENDER	04/26/22
ISSUED FOR PERMIT	05/03/22

CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE COMMENCING WORK.
DRAWINGS ARE NOT TO BE SCALED.
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SEAL:

	IRC Building Sciences Group A Rimkus Company 2121 ARGENTIA ROAD, 4TH FLOOR MISSISSAUGA, ONTARIO, L5N 2K4 TEL: 905.607.7244, FAX: 905.607.7288 1.888.607.5245 WWW.IRCGROUP.COM
--	--

PROJECT:
GLADYS SPEERS PUBLIC SCHOOL HVAC UPGRADES 2150 SAMWAY ROAD OAKVILLE, ON

DESCRIPTION:	
NOTES, PARTIAL PLAN, SECTIONS AND DETAILS	
WORK NO.: 100156847	CADD NO.: DS001
DESIGNED BY: G.T.	DRAWN BY: A.T.
SCALE: AS NOTED	DRAWING NO.: S01
DATE: 04/18/22	

ISSUE DESCRIPTION	DATE
ISSUED FOR CLIENT REVIEW	04/18/22
ISSUED FOR TENDER	04/26/22
ISSUED FOR PERMIT	05/03/22

DRAWINGS ARE NOT TO BE SCALED.
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SEAL:



PROJECT:

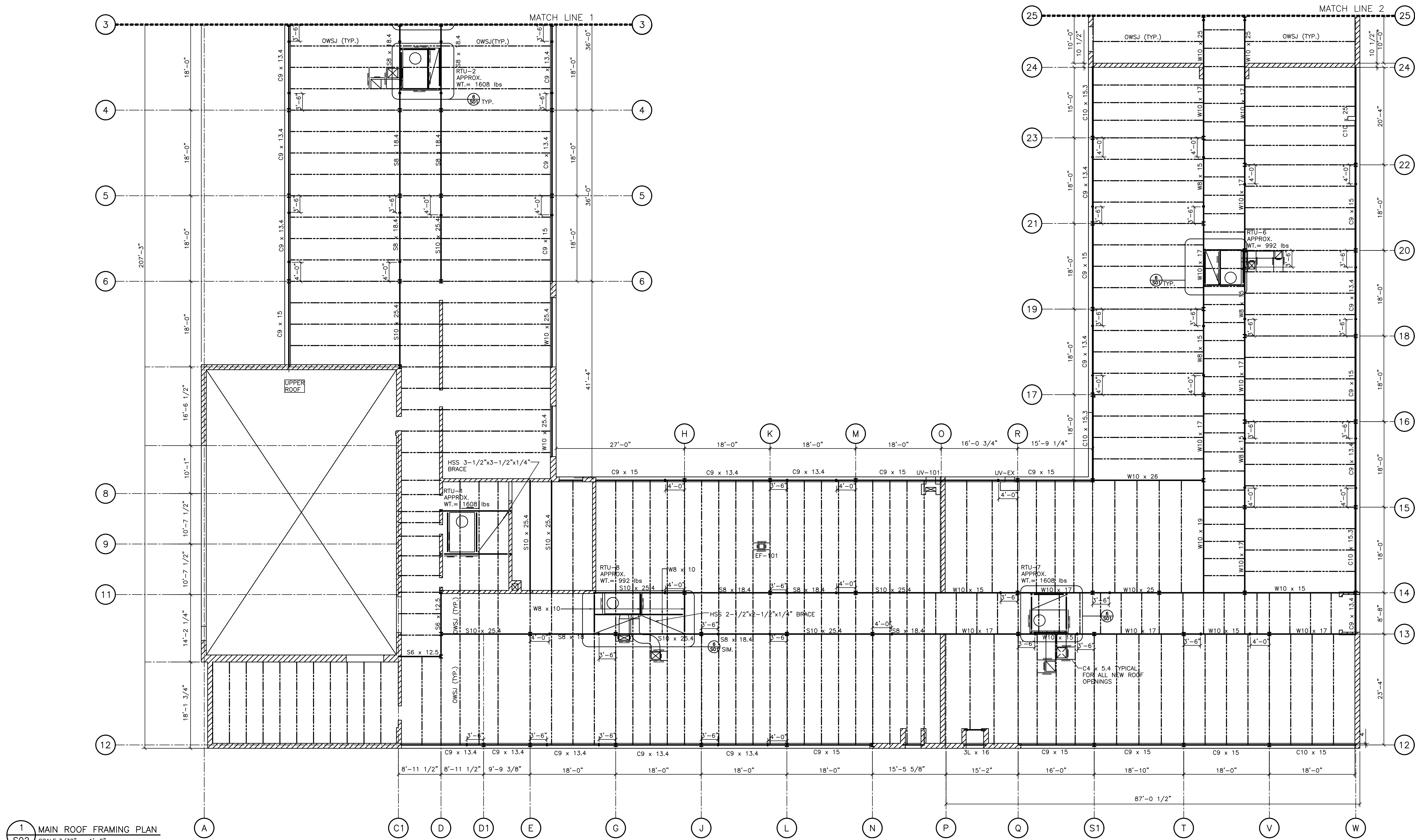
GLADYS SPEERS PUBLIC
SCHOOL HVAC UPGRADES

2150 SAMWAY ROAD
OAKVILLE, ON

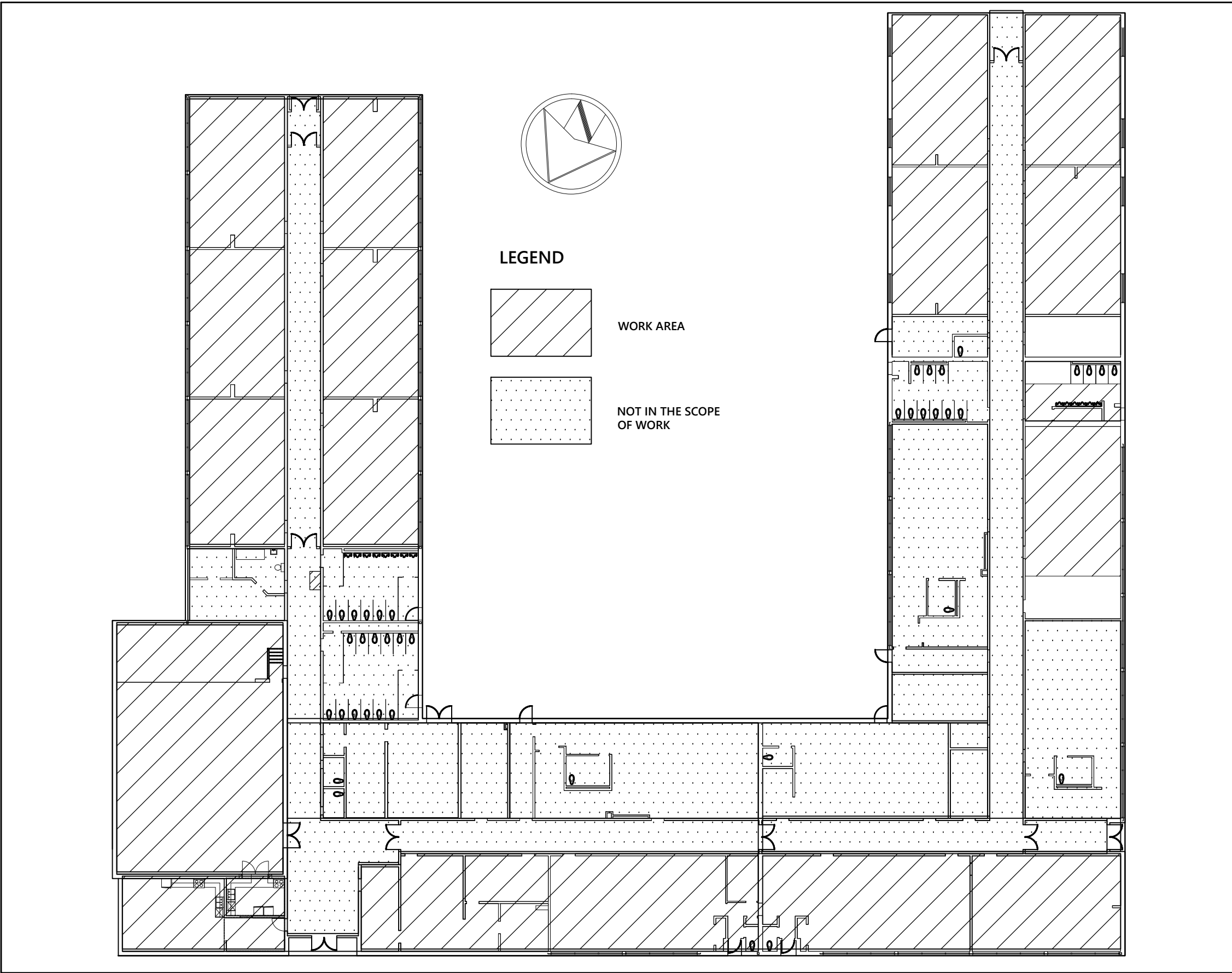
DESCRIPTION:

MAIN ROOF
FRAMING PLAN

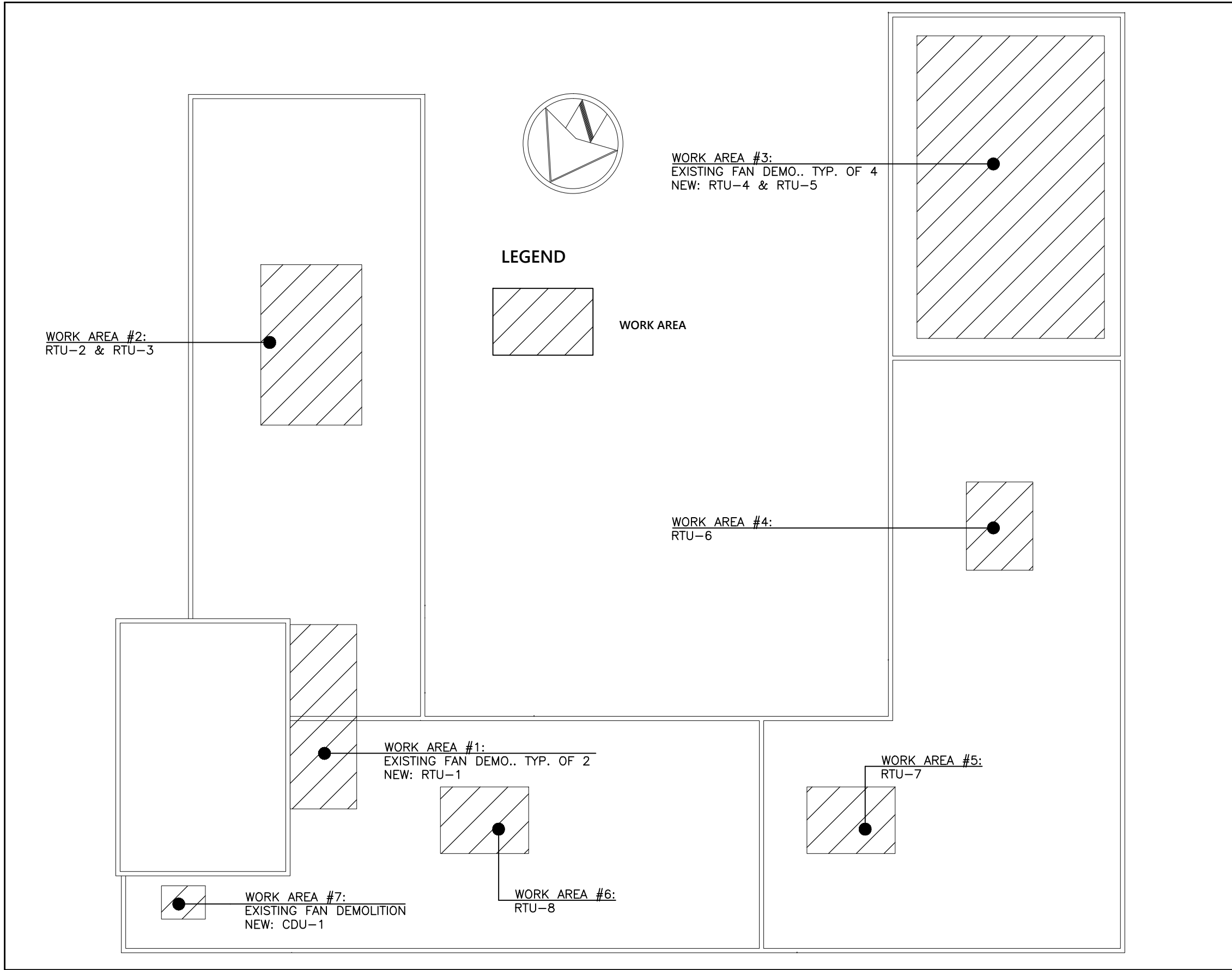
WORK NO.:	100156847	CADD NO.:	DS002
DESIGNED BY:	G.T.	DRAWN BY:	A.T.
SCALE:	AS NOTED	DRAWING NO.:	S02
DATE:	04/18/22		



1 MAIN ROOF FRAMING PLAN
S02 SCALE 3/32" = 1'-0"



SCHOOL KEY PLAN - GROUND FLOOR
SCALE: 1:400



SCHOOL KEY PLAN - ROOF
SCALE: 1:400

MECHANICAL EQUIPMENT WIRING SCHEDULE							
EQUIPMENT DESCRIPTION	POWER SOURCE	STARTER TYPE	MCA/BHP/ KW/AMP	VOLTS/PH./ FREQUENCY	BREAKER SIZE OR FUSE SIZE	FEEDER SIZE	REMARKS
RTU-1	BOILER RM DISTRIBUTION PANEL 'DP-1'	INTEGRAL	48.0 MCA	208/3/60	60A	3#AWG6+G IN 35mmC	PROVIDE NEW FUSED DISCONNECT AND CONNECT TO NEW DISTRIBUTION PANEL 'DP-1'. PROVIDE ALL WIRING BETWEEN THE PANEL 'DP-1', DISCONNECT, WEATHERPROOF DISCONNECT AND EQUIPMENT. ALL WIRING TO BE IN RIGID METAL CONDUIT. LAST 900 MM SHALL BE LIQUID-TIGHT FLEXIBLE FEEDERS.
RTU-2			48.0 MCA		60A	3#AWG6+G IN 35mmC	
RTU-3			48.0 MCA		60A	3#AWG6+G IN 35mmC	
RTU-4			37.0 MCA		50A	3#AWG2+G IN 41mmC	
RTU-5			37.0 MCA		50A	3#AWG2+G IN 41mmC	
RTU-6			30.0 MCA		45A	3#AWG4+G IN 35mmC	
RTU-7			48.0 MCA		60A	3#AWG6+G IN 35mmC	
RTU-8			30.0 MCA		45A	3#AWG8+G IN 27mmC	
CDU-1			17.1 MCA	208/1/60	20A	3#AWG12+G IN 21mmC	PROVIDE NEW FUSED DISCONNECT AND CONNECT ON NEW DISTRIBUTION PANEL 'DP-1'. PROVIDE ALL WIRING BETWEEN THE PANEL 'DP-1', DISCONNECT, WEATHERPROOF DISCONNECT AND EQUIPMENT. ALL WIRING TO BE IN RIGID METAL CONDUIT. LAST 900 MM SHALL BE LIQUID-TIGHT FLEXIBLE FEEDERS.
AC-1			1.0 MCA	208/1/60	20A	3#AWG12+G IN 21mmC	PROVIDE NEW FUSED DISCONNECT AND CONNECT ON NEW DISTRIBUTION PANEL 'DP-1'. PROVIDE ALL WIRING BETWEEN THE PANEL 'DP-1', DISCONNECT AND EQUIPMENT. ALL IN DOOR WIRING TO BE IN EMT CONDUIT. PROVIDE LOCAL DISCONNECT SWITCH.
BL-1	CORRIDOR PANEL 'A'		N/A	120/1/60	15A	3#AWG12+G IN 21mmC	PROVIDE NEW FUSED DISCONNECT AND CONNECT ON EXISTING DISTRIBUTION PANEL 'A'. PROVIDE ALL WIRING BETWEEN THE PANEL 'A', DISCONNECT AND MOTORIZED BLINDS. ALL IN DOOR WIRING TO BE IN EMT CONDUIT. PROVIDE LOCAL DISCONNECT SWITCH.
H-1	CORRIDOR PANEL 'A'		1.0 MCA	120/1/60	15A	3#AWG12+G IN 21mmC	PROVIDE NEW FUSED DISCONNECT AND CONNECT ON EXISTING DISTRIBUTION PANEL 'A'. PROVIDE ALL WIRING BETWEEN THE PANEL 'A', DISCONNECT AND MOTORIZED BLINDS. ALL IN DOOR WIRING TO BE IN EMT CONDUIT. PROVIDE LOCAL DISCONNECT SWITCH.

NOTES:

PROVIDE CONNECTION TO MECHANICAL EQUIPMENT TO ENSURE THAT FULL OPERATIONAL SYSTEMS ARE DELIVERED TO THE OWNER.

PROVIDE POWER CONNECTION TO ALL EQUIPMENT LISTED IN THE SCHEDULE. REFER ROOF LAYOUT FOR EXACT LOCATION OF EQUIPMENT.

PROVIDE SEPARATE DISCONNECTS FOR INDIVIDUAL MECHANICAL EQUIPMENT. SIZE AS INDICATED IN THE SCHEDULE.

DISCONNECTS LOCATIONS SHALL BE VERIFIED AND CO-COORDINATED ON SITE.

CONNECT NEW UNITS TO EXISTING FIRE ALARM SYSTEM. INCLUDE ALL REQUIRED WIRING AND DEVICES. PROVIDE VERIFICATION OF THE FIRE ALARM SYSTEM.

CONNECT NEW UNITS TO EXISTING BAS. INCLUDE ALL REQUIRED WIRING AND DEVICES. PROVIDE VERIFICATION OF THE BAS.

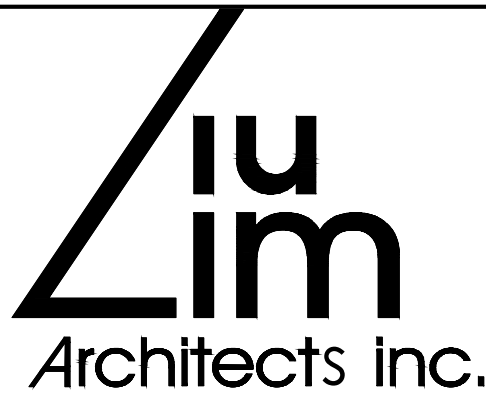
NEW LIGHTING FIXTURE SCHEDULE			
TYPE	MANUFACTURER	CATALOGUE	DESCRIPTION
A	ORION	HHSL1-E1-120V-FD-840-06W	HARRIS LED HIGH BAY STAR LINE, GEN1, 120-277V, C/W WIREGUARD

ELECTRICAL LEGEND	
	DIRECT POWER OUTLET FOR USE AS NOTED INCLUDING FINAL CONNECTION
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
	20A, 120V U-GROUND DUPLEX RECEPTACLE. GROUND FAULT INTERRUPTER
	WEATHERPROOF
	DENOTES: EXISTING TO REMAIN
	DENOTES: EXISTING TO BE REMOVED
	DENOTES: NEW
	DENOTES: EXISTING TO BE RELOCATED
	SINGLE POLE TOGGLE SWITCH WITH SINGLE GANG
	SINGLE POLE TOGGLE SWITCH WITH THREE GANG
	ELECTRICAL PANEL, SURFACE OR FLUSH RESPECTIVELY
	15A, 120V U-GROUND DUPLEX RECEPTACLE MOUNTED AT HIGH LEVEL
	15A, 120V U-GROUND GROUND FAULT INTERRUPTER TYPE DUPLEX RECEPTACLE
	DATA OUTLET C/W 3/4" C WITH 90° BEND AT TOP AND PVC END BUSHING TO ACCESSIBLE CEILING SPACE

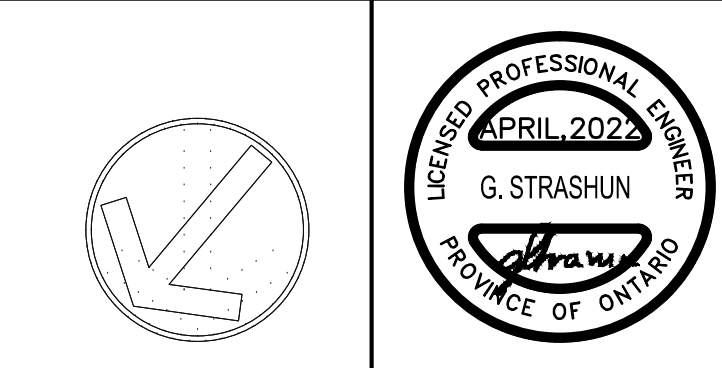


Project:

GLADYS SPEERS PS
RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6



Unit 100 - 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



Consultant:

SAB
ENGINEERING Inc.

588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:

KEY PLANS, SYMBOL LIST, NOTES,
EQUIPMENT WIRING DIAGRAM
- ELELCTRICAL

Drawn by:
P.C.

Date:
DECEMBER 2021

Checked by:
O.S.

Plotted:

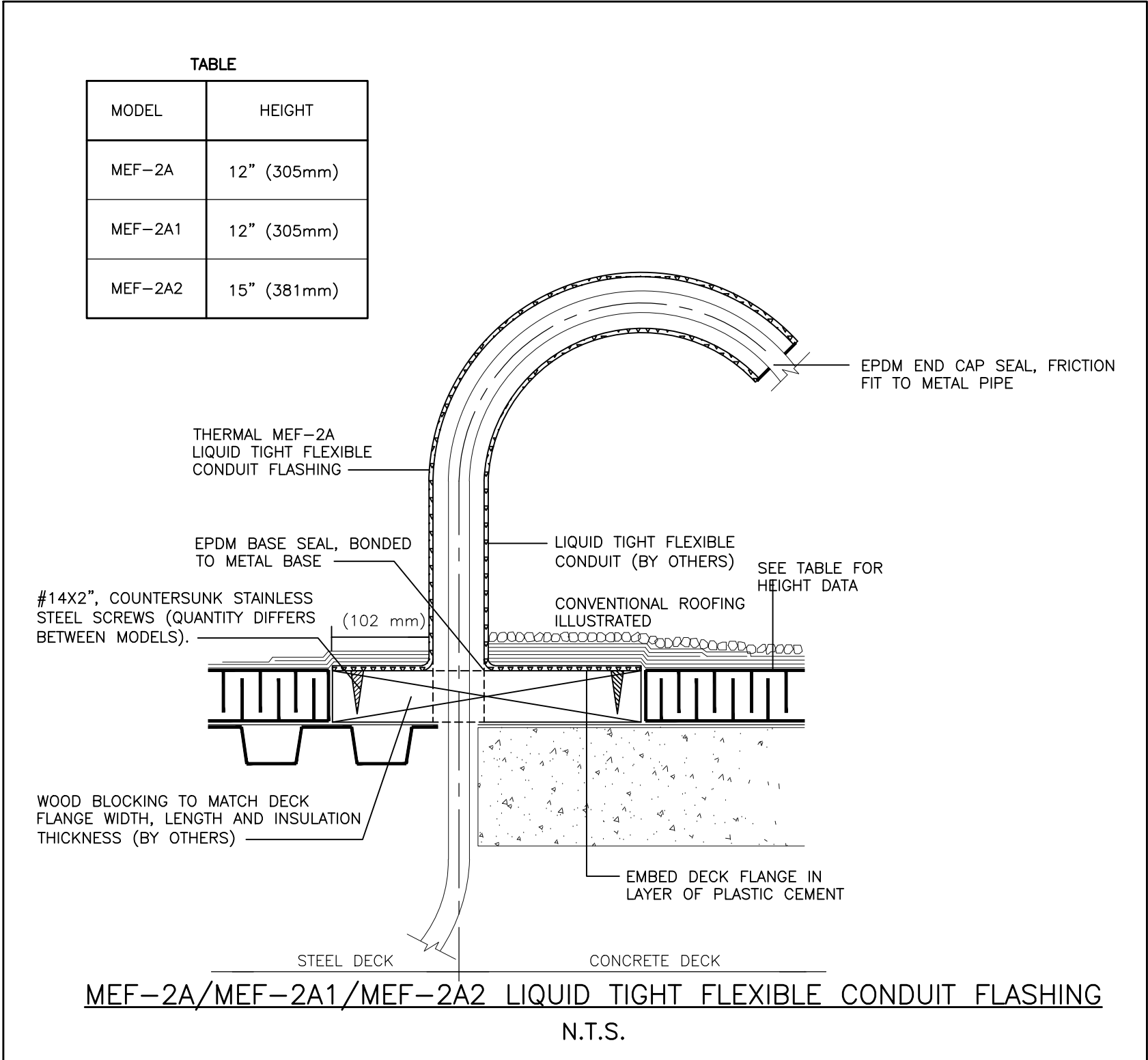
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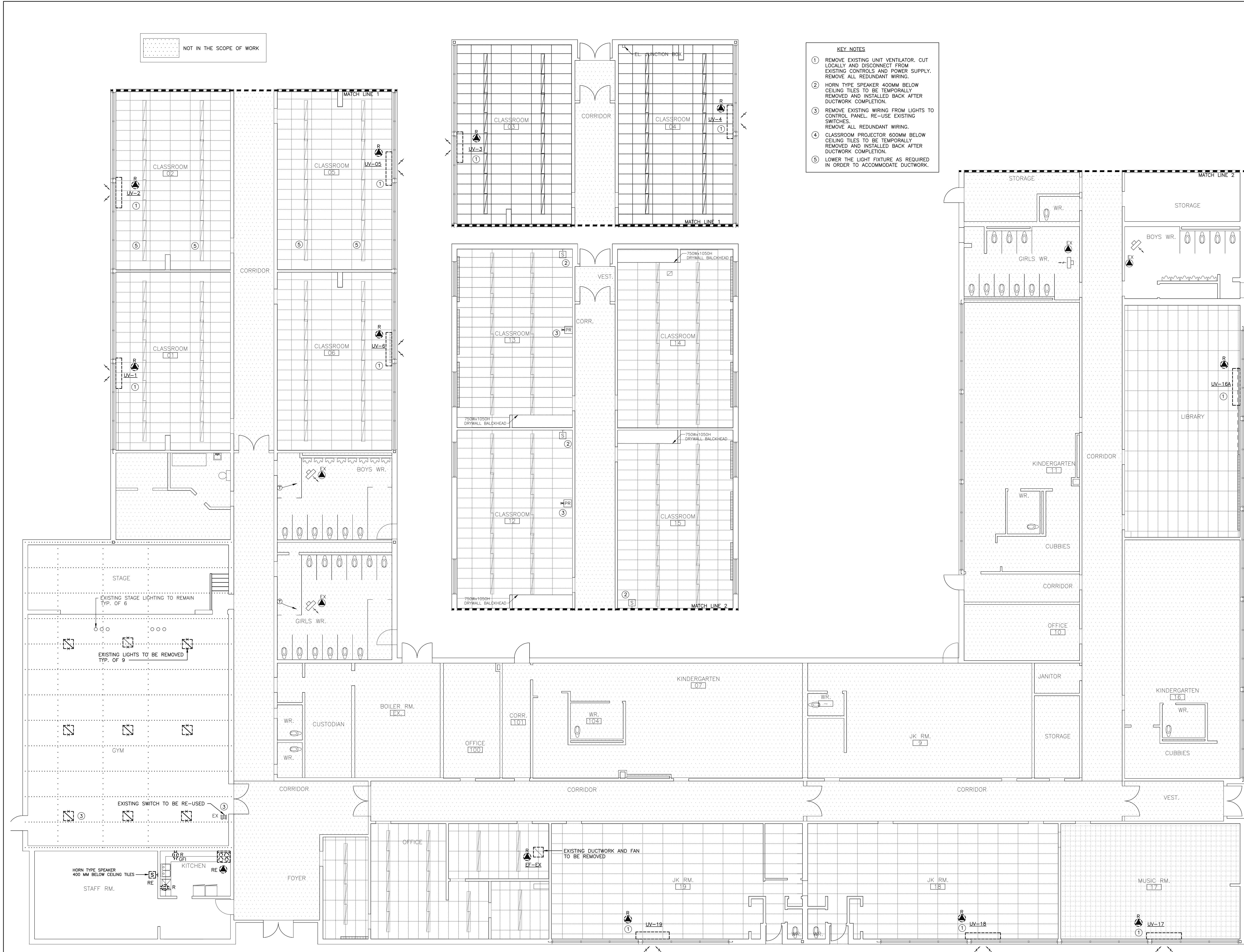
Job No.:
2022-01

Drawing No.:
E-1.1

Set No.:



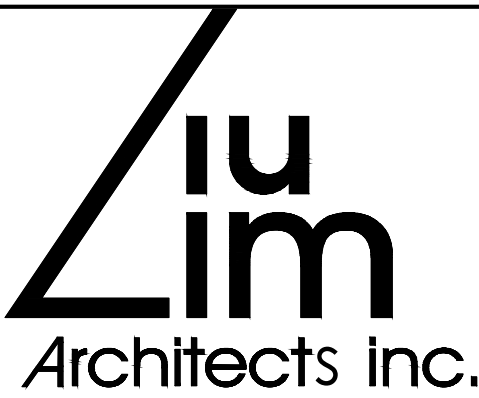
GENERAL ELECTRICAL NOTES	
1. IT IS MANDATORY FOR THE ELECTRICAL CONTRACTOR TO VISIT SITE AND REVIEW EXISTING CONDITIONS AND DEMOLITION SCOPE OF WORK TO SUIT EXISTING ARCHITECTURAL AND STRUCTURAL CONDITIONS AND MECHANICAL DRAWINGS.	
2. CAREFULLY EXAMINE OTHER EXISTING UTILITY LINES SUCH AS GAS, WATER ETC. PRIOR TO START THE ELECTRICAL CONSTRUCTION WORKS AND COORDINATE WITH OTHER TRADES AND REPORT OF ANY DISCREPANCY PRIOR TO PROCEEDING.	
3. REFER TO ELECTRICAL AND MECHANICAL LAYOUTS FOR EXACT LOCATION OF ALL EQUIPMENT.	
4. LOCATIONS OF ALL NEW DISCONNECT SWITCHES, VFDS AND STARTERS SHALL BE CONFIRMED WITH DIVISION 15 PRIOR TO INSTALLATION.	



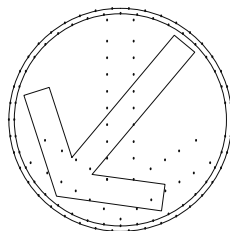
Revisions				
Ref.	No.	Description	Date	Initial
△	1	50% REVIEW	2022/02/17	
△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	



Project:
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ON L6L 2P6



Unit 100 - 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



Consultant:
SAB
ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:
GROUND FLOOR - EQUIPMENT &
LIGHTING LAYOUT - EXISTING &
DEMOLITION WORK - ELECTRICAL

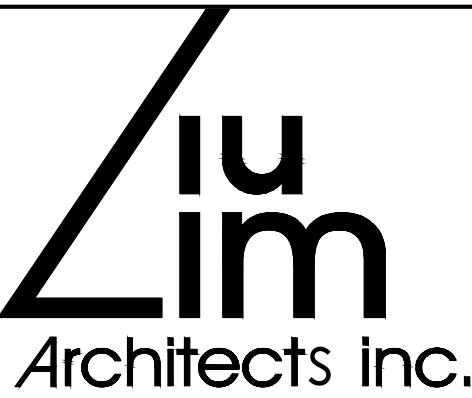
Drawn by: P.C.	Date: DECEMBER 2021
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-01	Drawing No.: E-2.1
Set No.:	



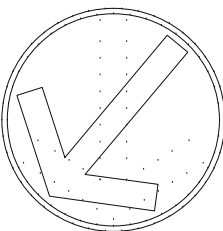
The logo of the Town of Oakville, featuring a stylized 'O' with a tree inside, and the text 'TOWN OF OAKVILLE' below it. To the right of the logo is a red rectangular stamp with the word 'RECEIVED' in large red letters, followed by 'BUILDING SERVICES' in smaller red letters. Below that, it says 'PERMIT NO: 22-111973' and 'DATE: 05/26/2022' in red. At the bottom of the stamp is the 'TOWN OF OAKVILLE' logo.

Project:

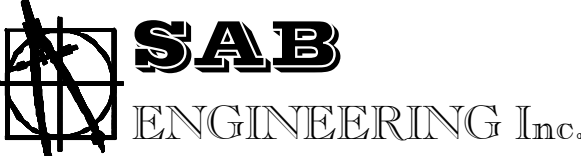
GLADYS SPEERS PS
RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6



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Tel:(416)591-6575 Fax:(416)591-1010



Consultant:



588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:

ROOF – EQUIPMENT LAYOUT
– EXISTING & DEMOLITION WORK
– ELECTRICAL

Drawn by: P.C.	Date: DECEMBER 2021
-------------------	------------------------

Checked by: O.S.	Plotted:
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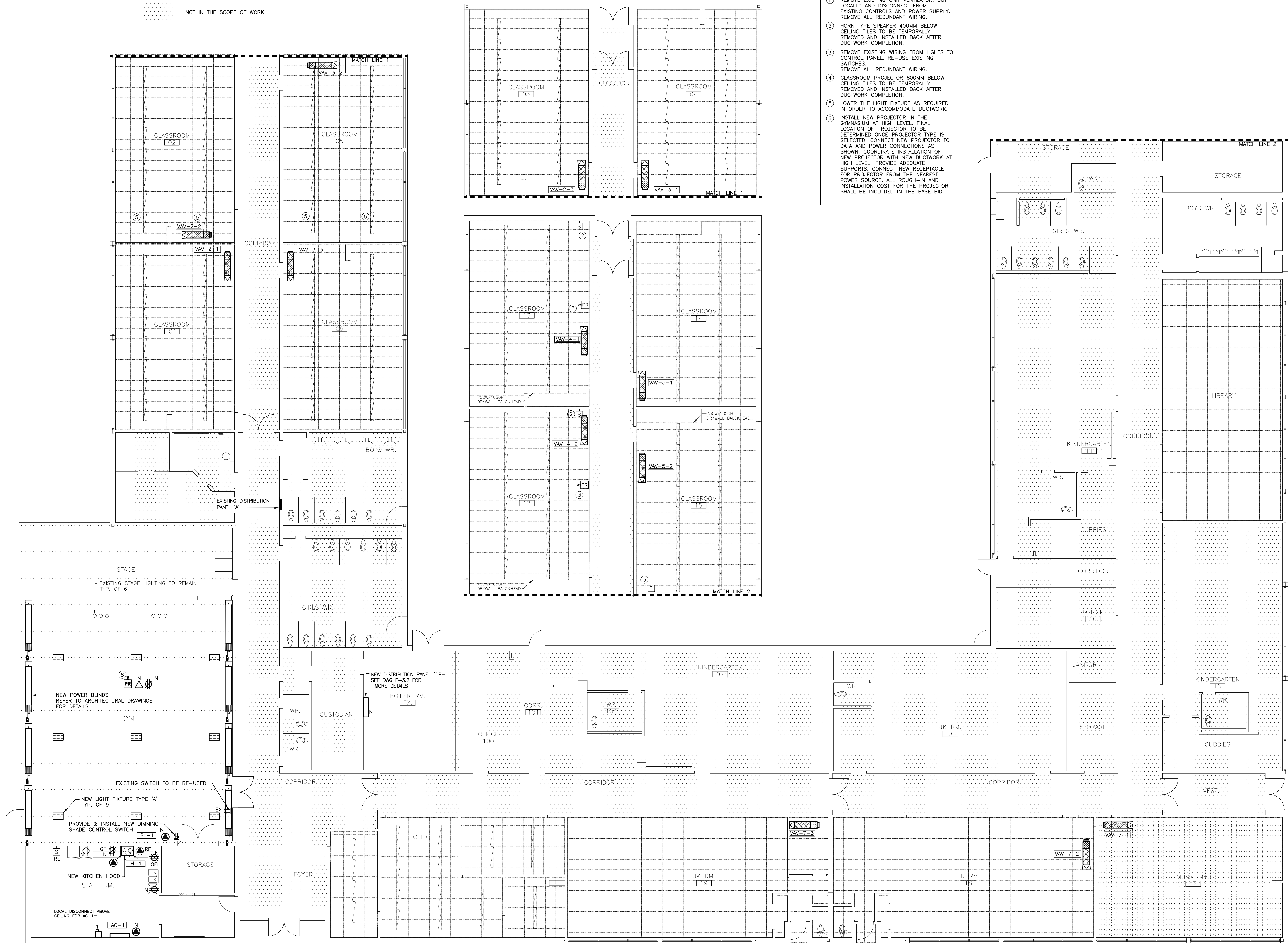
Scale:
AS SHOWN

Job No.:
2022-01

Set No.:

E-2.2

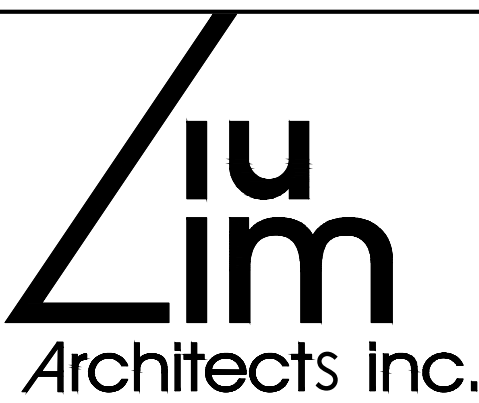
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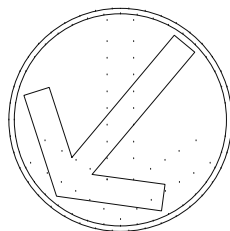
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△	4	ISSUED FOR TENDER	2022/04/26	



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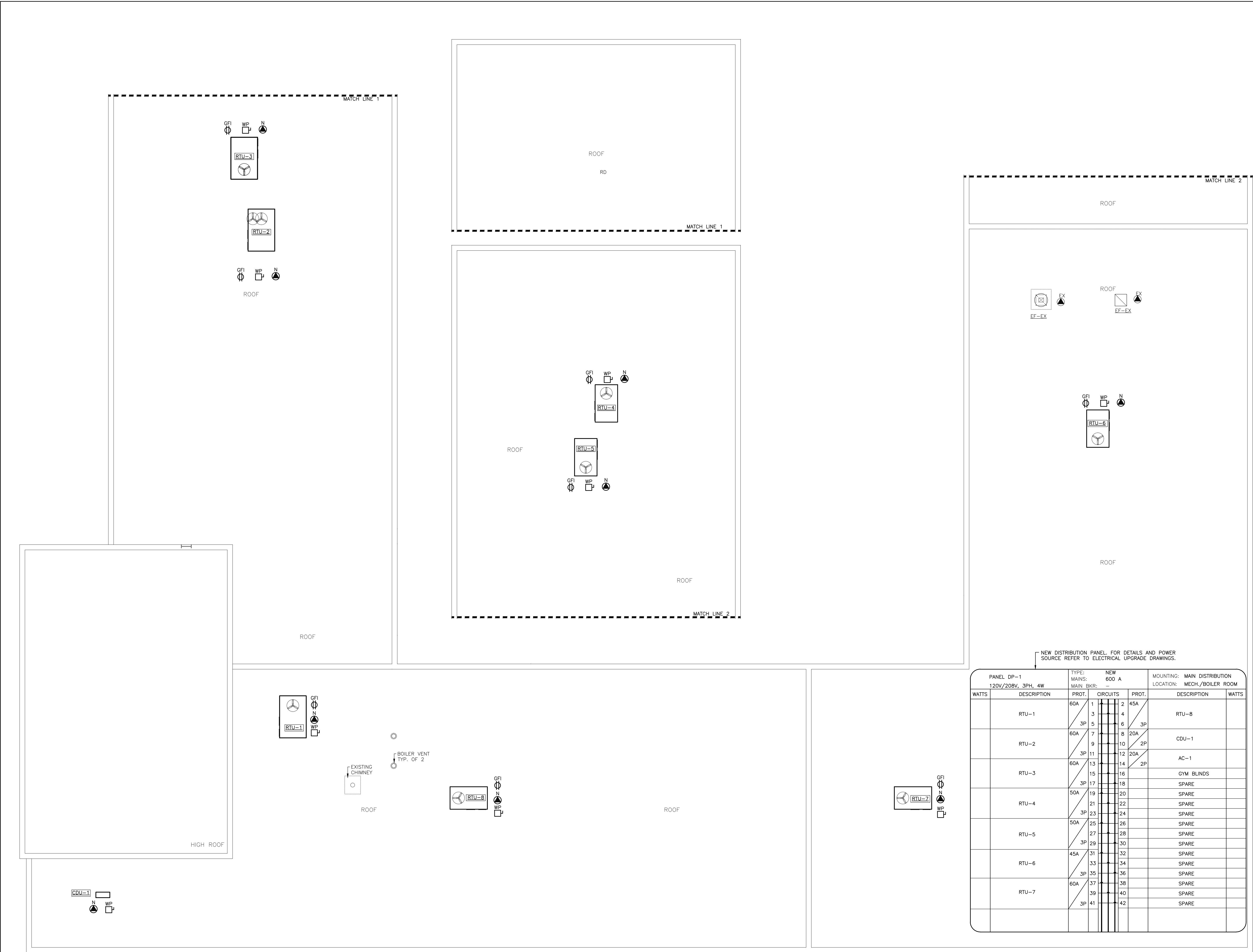
Unit 100 – 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591–6575 Fax:(416)591–1010



Consultant:
SAB
ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:
GROUND FLOOR – EQUIPMENT &
LIGHTING LAYOUT – NEW WORK
– ELECTRICAL

Drawn by: P.C.	Date: DECEMBER 2021
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022–01	Drawing No.: E-3.1
Set No.:	

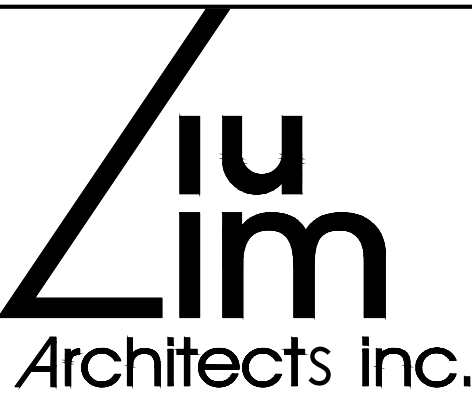


ROOF PLAN – EQUIPMENT LAYOUT – NEW WORK – ELELCTRICAL
SCALE: 1:100

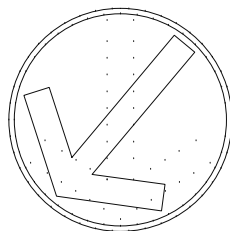
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△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	



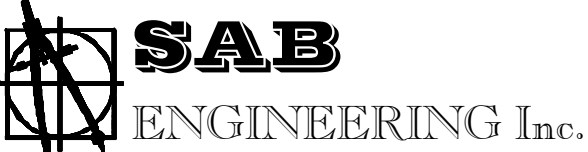
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Consultant:



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TEL. (905)-787 8885 FAX (905)-787 8771

Title:
ROOF – EQUIPMENT LAYOUT
– NEW WORK – ELECTRICAL

Drawn by:
P.C.

Date:
DECEMBER 2021

Checked by:
O.S.

Plotted:

Scale:
AS SHOWN

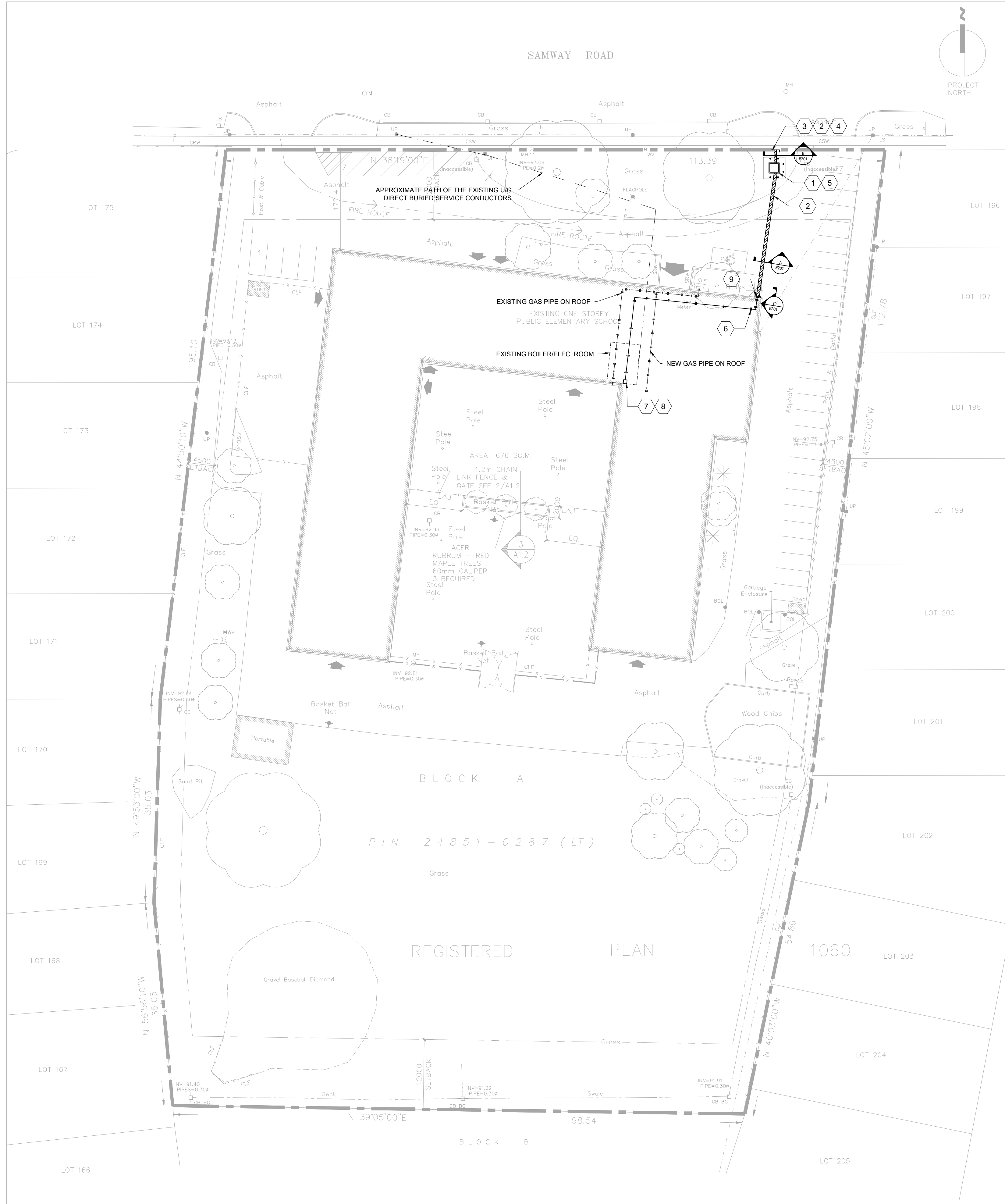
Issued:

Job No.:
2022–01

Set No.:

Drawing No.:

E-3.2



GENERAL NOTES

- 1.1. PROVIDE ALL MATERIAL, EQUIPMENT AND LABOR REQUIRED TO CONSTRUCT, INSTALL, TEST AND COMPLETE A FULLY FUNCTIONING ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS / SPECIFICATIONS. INCLUDE ALL ITEMS NECESSARY TO COMPLY WITH CODES AND AUTHORITIES HAVING JURISDICTION.
- 1.2. VISIT AND EXAMINE THE SITE CONDITIONS WHERE THE WORK IS TO BE DONE. REVIEW OTHER TRADES DRAWINGS AND SPECIFICATIONS AND INCLUDE THE COST ASSOCIATED WITH RELOCATING OR REROUTING OF THE ELECTRICAL EQUIPMENT. THERE WILL BE NO CONSIDERATION FOR EXTRAS FOR FAILURE TO COMPLY WITH THIS ITEM.
- 1.3. DEFINITIONS:
1.3.1. "PROVIDE": SUPPLY, INSTALL AND CONNECT
1.3.2. "INSTALL": INSTALL AND CONNECT
- 1.4. ALL WORK MUST BE PERFORMED IN ACCORDANCE WITH THE LATEST APPLICABLE ONTARIO BUILDING CODE AND CSA STANDARD C22.1-21 ONTARIO ELECTRICAL CODE, AND AHJ'S ADDITIONAL REQUIREMENTS OR INSTRUCTIONS.
- 1.5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL PERMITS AND INSPECTIONS IN CONNECTION WITH THE WORK PRIOR TO STARTING THE WORK.
- 1.6. CARRY COSTS WITHIN BID FOR ALL BUILDING SHUTDOWNS TO BE DURING PREMIUM TIME. CONFIRM THE NORMAL OPERATION OF THE BUILDING AND OTHER EXISTING TENANTS WITH THE BUILDING OWNER. SHUTDOWN TIME AND DURATION SHALL BE CONFIRMED BY OWNER.
- 1.7. ALL CHANGE REQUESTS SHALL BE WITH ITEMIZED LABOUR AND MATERIAL BREAKDOWN.
- 1.8. ENSURE THAT ALL FLOOR PENETRATIONS AND SAW CUTTING IS APPROVED BY THE ARCHITECT, BUILDING OWNER AND STRUCTURAL ENGINEER PRIOR TO ANY CUTTING. PATCHING SHALL BE DONE BY THIS CONTRACTOR AND AS PER STRUCTURAL ENGINEER'S INSTRUCTIONS.
- 1.9. USE ONLY EXISTING T-BAR CEILING KNOCKOUTS FOR WIRE/CABLE OR CONDUIT. IF NEW HOLES ARE REQUIRED, THEY ARE TO BE DRILLED IN THE CENTRE OF THE T-BAR USING THE SAME DIAMETER HOLE AS THE EXISTING KNOCKOUT CAPS.
- 1.10. ALL MATERIALS AND EQUIPMENT SHALL BE NEW, C.S.A. CERTIFIED AND MANUFACTURED TO THE STANDARDS SPECIFIED.
- 1.11. WHERE THERE IS NO ALTERNATIVE TO SUPPLYING EQUIPMENT THAT IS NOT C.S.A. CERTIFIED, OBTAIN SPECIAL APPROVAL FROM THE LOCAL INSPECTION DEPARTMENT.
- 1.12. SUBMIT TO THE LOCAL ELECTRICAL INSPECTION DEPARTMENT, THE NECESSARY NUMBER OF DOCUMENTS FOR EXAMINATION, SPECIAL INSPECTION AND APPROVAL, PRIOR TO THE COMMENCEMENT OF THE WORK, AND PAY ALL COSTS AND ASSOCIATED FEES
- 1.13. THE DRAWINGS FOR THE ELECTRICAL WORK ARE DIAGRAMMATIC PERFORMANCE DRAWINGS ONLY, INTENDED TO CONVEY THE SCOPE OF WORK AND INDICATE THE GENERAL ARRANGEMENT AND APPROXIMATE LOCATION OF ELECTRICAL EQUIPMENT. THE DRAWINGS DO NOT INTEND TO SHOW ARCHITECTURAL, INTERIOR DESIGN, MECHANICAL, STRUCTURAL OR BASE BUILDING DETAILS. CONTRACTOR SHALL BE RESPONSIBLE FOR A THOROUGH KNOWLEDGE OF SAME PRIOR TO PROCEEDING WITH THE WORK
- 1.14. ANY DISCREPANCIES BETWEEN DRAWINGS AND/OR SPECIFICATIONS AND EXISTING CONDITIONS MUST BE REFERRED TO THE DESIGN CONSULTANT/ARCHITECT PRIOR TO ANY WORK.
- 1.15. MAKE, AT NO ADDITIONAL COST, ANY CHANGES OR ADDITIONS TO MATERIALS AND EQUIPMENT NECESSARY TO ACCOMMODATE STRUCTURAL CONDITIONS (OFFSETS AROUND BEAMS, COLUMNS, ETC.)
- 1.16. ACCESS PANELS MUST BE REVIEWED AND APPROVED BY OWNER PRIOR TO CLOSING CEILINGS.
2. **BASE BUILDING REQUIREMENTS**
- 2.0. ANY BASE BUILDING LIGHTING FIXTURES NOT BEING USED ARE TO BE RETURNED TO THE OWNER.
- 2.1. ALL RELOCATED BASE BUILDING LIGHTING FIXTURES MUST BE INDEPENDENTLY SUPPORTED FROM BUILDING STRUCTURE WITH TENSO CHAINS, MINIMUM OF TWO (2) POINTS.
- 2.2. CONTRACTOR MUST FOLLOW BASE BUILDING REQUIREMENTS AND TENANT IMPROVEMENT GUIDELINES PROVIDED DURING THE TENDER.
- 2.3. WHEN DELETING AND/OR MAKING SAFE EXISTING ELECTRICAL WORK, ENSURE THAT ALL DISCONNECTED WIRING IS CAPPED OFF.
- 2.4. EXISTING DEVICES DESIGNATED TO BE RELOCATED/REUSED SHALL BE INSPECTED AND REFURBISHED TO ENSURE CORRECT OPERATION WHEN PUT BACK INTO SERVICE AND MEETS ELECTRIC SAFETY INSPECTOR'S APPROVAL. OUTLET BOXES AND WIRING AND/OR CONDUITS THAT ARE CORRODED OR DAMAGED ARE TO BE REPLACED.
- 2.5. ALL EXISTING ELECTRICAL EQUIPMENT WHICH ARE NO LONGER REQUIRED SHALL BE REMOVED AND DISPOSED OFF, OFF-SITE.
- 2.6. CONDUITS THAT ARE TO BE CUT BACK ARE TO TERMINATE IN A JUNCTION BOX.
- 2.7. CLEAN LUMINAIRE REFLECTORS AND LENSES, LAMPS, AND OTHER SURFACES THAT HAVE BEEN EXPOSED TO CONSTRUCTION DUST AND DIRT. CLEAN THE INSIDES AND OUTSIDES OF PANELBOARDS, SPLITTERS AND OTHER ELECTRICAL EQUIPMENT.
3. **WORKMANSHIP**
- 3.1. WORK SHALL BE PERFORMED BY LICENSED TRADESMEN SKILLED IN THE WORK TO BE PERFORMED. ONLY FIRST-CLASS WORKMANSHIP WILL BE ACCEPTED WITH RESPECT TO SAFETY, ACCESSIBILITY, DURABILITY, NEATNESS OF DETAIL, AND APPEARANCE.
- 3.2. ANY DAMAGE CAUSED TO THE PROPERTY OF THE OWNER THROUGH POOR WORKMANSHIP IS THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL PAY FOR THE REPAIR OF SAME, WITHOUT EXPENSE TO THE OWNER.
4. **CLEAN UP**
- 4.1. CONSTRUCTION SITE SHALL BE KEPT CLEAN AND FREE FROM DEBRIS DURING THE DURATION OF THE PROJECT. CLEAN UP REFUSE, CAUSED BY ELECTRICAL WORK, DAILY FROM THE SITE, DISPOSE OF REFUSE AS DIRECTED BY THE GENERAL CONTRACTOR OR OWNER.
- 4.2. AFTER SUBSTANTIAL COMPLETION, REMOVE FROM THE PREMISES ALL SURPLUS AND WASTE MATERIAL AND DEBRIS. LEAVE THE SITE AND BUILDING IN CLEAN CONDITION.
5. **TEMPORARY POWER**
- 5.1. ELECTRICAL CONTRACTOR IS RESPONSIBLE TO CO-ORDINATE WITH OTHER TRADES AND OWNER TO PROVIDE TEMPORARY POWER COW CORDS AND TEMP DISTRIBUTION SYSTEM AS REQUIRED DUE TO NEW CONSTRUCTION OR CONTINUITY OF SERVICE IN THE BASE BUILDING.
6. **CUTTING AND PATCHING**
- 6.1. ALL CUTTING AND PATCHING REQUIRED TO THE EXISTING BUILDING STRUCTURE FOR THE ELECTRICAL OPENING SHALL BE INCLUDED UNDER THIS CONTRACT AND BE ACCEPTABLE TO THE OWNER. OBTAIN WRITTEN APPROVAL FROM OWNER PRIOR TO ANY CUTTING IS CARRIED OUT.
- 6.2. ANY OPENING IN EXISTING STRUCTURE SHALL BE CO-ORDINATED, X-RAYED, CUT OR DRILLED AND PATCHED, AT THE EXPENSE OF THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE ADVISED BY THE GENERAL CONTRACTOR.
- 6.3. WHERE CONDUITS OR OTHER ELECTRICAL EQUIPMENT PASS THROUGH FIRE-RATED WALLS OR FLOORS, PROVIDE FIRE-STOPPING MATERIAL LISTED WITH, AND BEAR LABEL OF CSA AND ULC, AND MAINTAIN SAME FIRE RATING OF BUILDING COMPONENT PENETRATION.
7. **SHOP DRAWINGS**
- 7.1. SUBMIT SHOP DRAWINGS FOR LIGHTING FIXTURES, PANELBOARDS, TRANSFORMERS, AND OTHER MAJOR ELECTRICAL EQUIPMENT/SYSTEMS AS REQUESTED BY THE ELECTRICAL ENGINEER FOR APPROVAL.
8. **WARRANTY**
- 8.1. CONTRACTOR SHALL PROVIDE A WRITTEN WARRANTY OF ALL MATERIALS, EQUIPMENT AND WORKMANSHIP UNDER THIS DIVISION FOR A PERIOD OF ONE (1) YEAR, COMMENCING ON THE DATE OF SUBSTANTIAL PERFORMANCE OR ACCEPTANCE OF THE COMPLETED PORTION BY THE ARCHITECT/INTERIOR DESIGNER/ PROJECT MANAGER, WHICHEVER DATE IS LATER.
9. **AS-BUILT DRAWINGS**
- UPON COMPLETION OF WORK, ELECTRICAL CONTRACTOR SHALL PROVIDE THESE (3) SETS OF WHITE PRINTS TO REFLECT "AS-BUILT" CONDITIONS. "AS-BUILT" DRAWINGS SHALL INCORPORATE ANY CHANGES OR DEVIATIONS FROM THE TENDER DOCUMENTS.
- CONTRACTOR SHALL ALSO PROVIDE ELECTRONIC FILES IN AUTOCAD FORMAT IN A CD DISK TO REFLECT AS-BUILT CONDITIONS.
- CONTRACTOR TO MARK THE DRAWINGS AS "AS-BUILT" ALONG WITH ELECTRICAL CONTRACTORS COMPANY NAME.
10. **CLOSE-OUT DOCUMENTS**
- SUBMIT 3 CDS OF ELECTRONIC COPY AND ONE 3-RING BINDER OF HARD COPY OF THE CLOSEOUT DOCUMENTS WHICH SHALL INCLUDE BUT NOT BE LIMITED TO:
 - ESA INSPECTION REPORT AND FINAL CERTIFICATE
 - STAMPED APPROVED SHOP DRAWINGS
 - WARRANTY LETTER
 - AS-BUILT DRAWING (CAD 2004 FILE AND PDF FORMAT)
 - FIRE ALARM VERIFICATION REPORT

DESIGN NOTES:

1. PROPOSED LOCATION FOR NEW 225KVA PAD MOUNTED TRANSFORMER SUPPLIED AND INSTALLED BY UTILITY. EXACT LOCATION AND ORIENTATION TO BE CONFIRMED BY UTILITY PRIOR TO CONSTRUCTION.
2. ALL DUCT BANKS TO BE PROVIDED BY ELECTRICAL CONTRACTOR.
3. PRIMARY CABLES TERMINATION TO THE TRANSFORMER BY UTILITY.
4. COORDINATE WITH UTILITY TO PROVIDE NEW PRIMARY SERVICE FROM UTILITY POLE TO PRIMARY DUCT BANKS INSIDE THE SCHOOL PROPERTY ZONE.
5. ELECTRICAL CONTRACTOR TO PROVIDE CABLES, GROUNDING, GUARD POSTS AND FOUNDATION FOR THE NEW SERVICE AS PER UTILITY AND ESA REQUIREMENTS.
6. PROVIDE SUPPORT FOR SERVICE CONDUITS ON WALL AND ROOF. COORDINATE WITH MECHANICAL AND ROOF CONTRACTOR FOR THE EXACT CONDUIT PATH AND ELEVATION.
7. NEW DOGHOUSE ABOVE THE ELECTRICAL ROOM TO BE USED FOR TERMINATION OF CONDUCTORS TO NEW 800A/3P FUSED SERVICE DISCONNECT.
8. COORDINATE WITH THE ROOFING CONTRACTOR FOR THE EXACT LOCATION AND SIZE OF THE DOGHOUSE. REFER TO THE STRUCTURAL DRAWINGS FOR DOGHOUSE AND ROOFTOP CONDUIT SUPPORT DETAIL.
9. CONDUIT STUB UP POINT AND CONNECTION FROM RIGID PVC TO RIGID GALVANIZED STEEL FOR EXTERIOR RUN.
- 10- CONTRACTOR TO INFORM UTILITY WHEN DUCT INSTALLATION IS READY FOR INSPECTION. THIS SHALL BE DONE BEFORE ANY BACKFILL.
- 11- COORDINATE AND INFORM ESA FOR ALL REQUIRED INSPECTIONS DURING CONSTRUCTION.
- 12- THE EXACT DUCT BANK PATH SHALL BE DETERMINED IN COORDINATION WITH UTILITY AND EXISTING UNDERGROUND SERVICES. FOLLOW ALL REQUIRED CLEARANCE FROM OTHER UNDERGROUND SERVICES. ANY REQUIRED CROSSOVER WITH THE EXISTING SERVICES SHALL MEET OAKVILLE HYDRO AND CORRESPONDING SERVICE PROVIDER.
- 13- RESTORE ALL SITE SURFACES TO THE PREVIOUS CONDITION. REINSTALL ASPHALT, LANDSCAPING, CONCRETE PAVEMENT, CURBS.

BUILDING ELECTRICAL SERVICE SIZE CALCULATION
BASED ON RULE 8-204 OF OESC.

1.	TOTAL AREA	3,000 m ²
2.	TOTAL CLASSROOM AREA	1,450 m ²
3.	BASIC LOAD (CLASSROOM @ 50W/m ²)	72,500 W
4.	BASIC LOAD @ 10W/m ²	15,500 W
5.	OTHER LOADS	115,425 W
6.	TOTAL (BY ADDING 3,4 & 5)	203,425 W
7.	LESS ELEC. HEATING	N/A
8.	LOAD PER SQUARE METER	67.81 W/m ²
9.	TOTAL LOAD WITH DEMAND FACTORS	116,969 W
10.	CONTINUOUS LOAD (X1.25)	146,212 W
11.	MINIMUM SERVICE SIZE @ 208V/3Ø	405.85 A (600A)

MAXIMUM SHORT CIRCUIT AT MAIN SERVICE DISCONNECT

1. INFINITE SHORT CIRCUIT ON PRIMARY
2. 225KVA TRANSFORMER WITH 2% IMPEDANCE
3. AVAILABLE SHORT CIRCUIT AT SECONDARY TERMINALS: 31,200KA
4. CONSIDERING 60m SECONDARY SERVICE LENGTH
5. MAXIMUM AVAILABLE SHORT CIRCUIT AT MAIN SERVICE DISCONNECT 14.5KA

ALL NEW EQUIPMENT TO BE RATED FOR MINIMUM 22KAIC.

Revisions

Ref.	No.	Description	Date	Initial
△	1	50% REVIEW	2022/02/17	
△	2	OAKVILLE HYDRO	2022/04/19	
△	3	ESA PLAN REVIEW	2022/04/20	
△	4	TENDER	2022/04/21	



Project:

GLADYS SPEERS PS
RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6



Unit 100 – 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



Consultant:

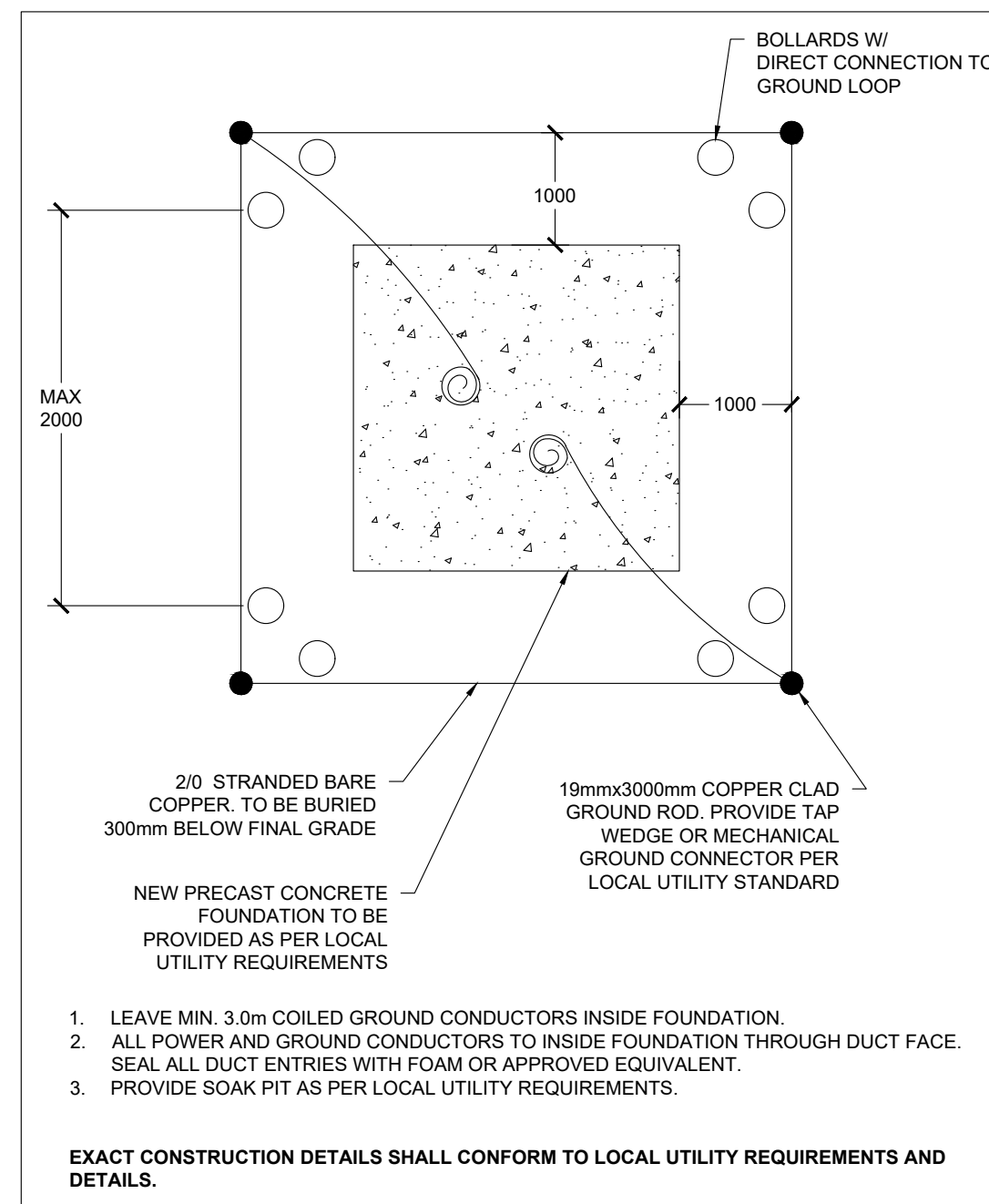
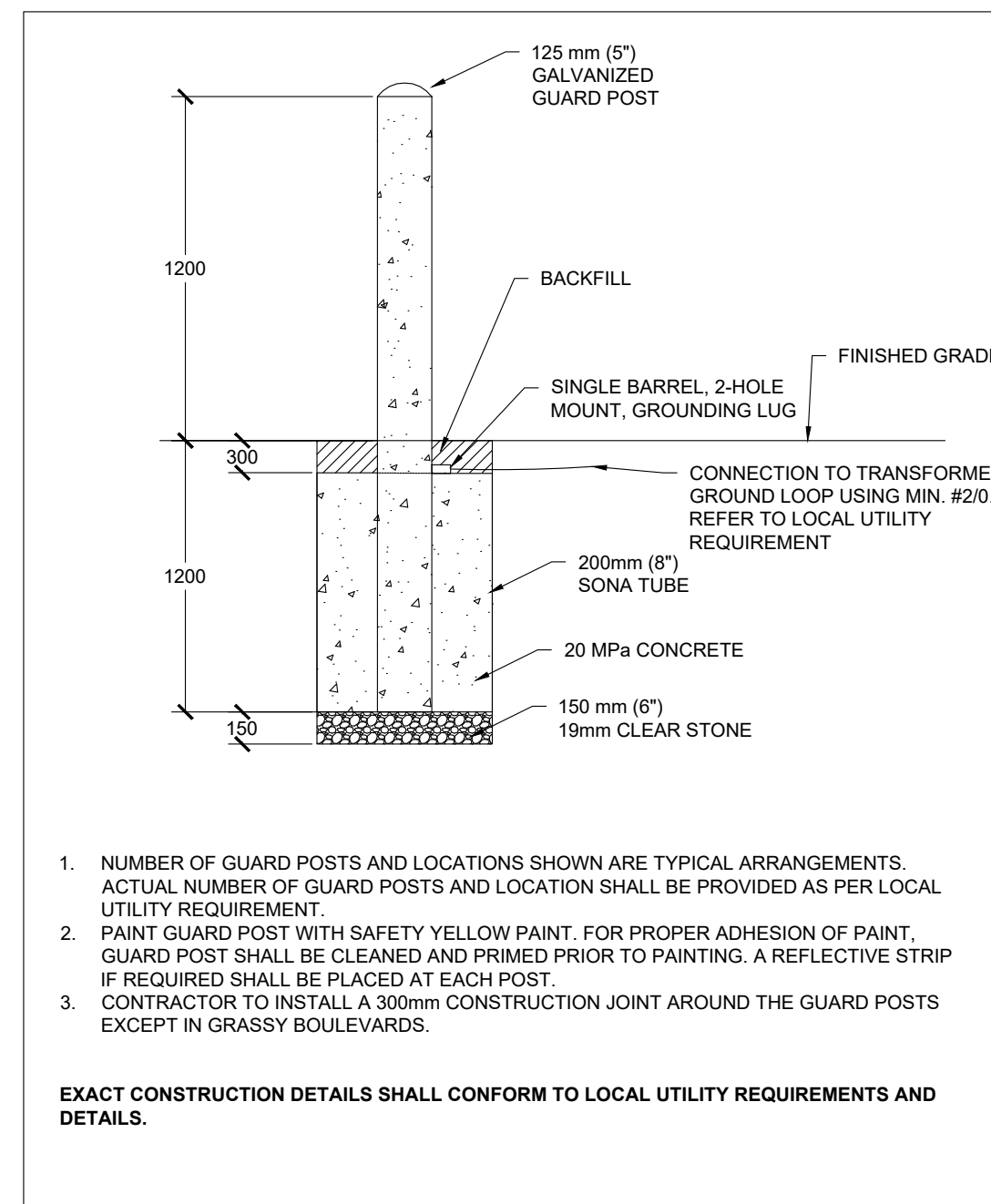
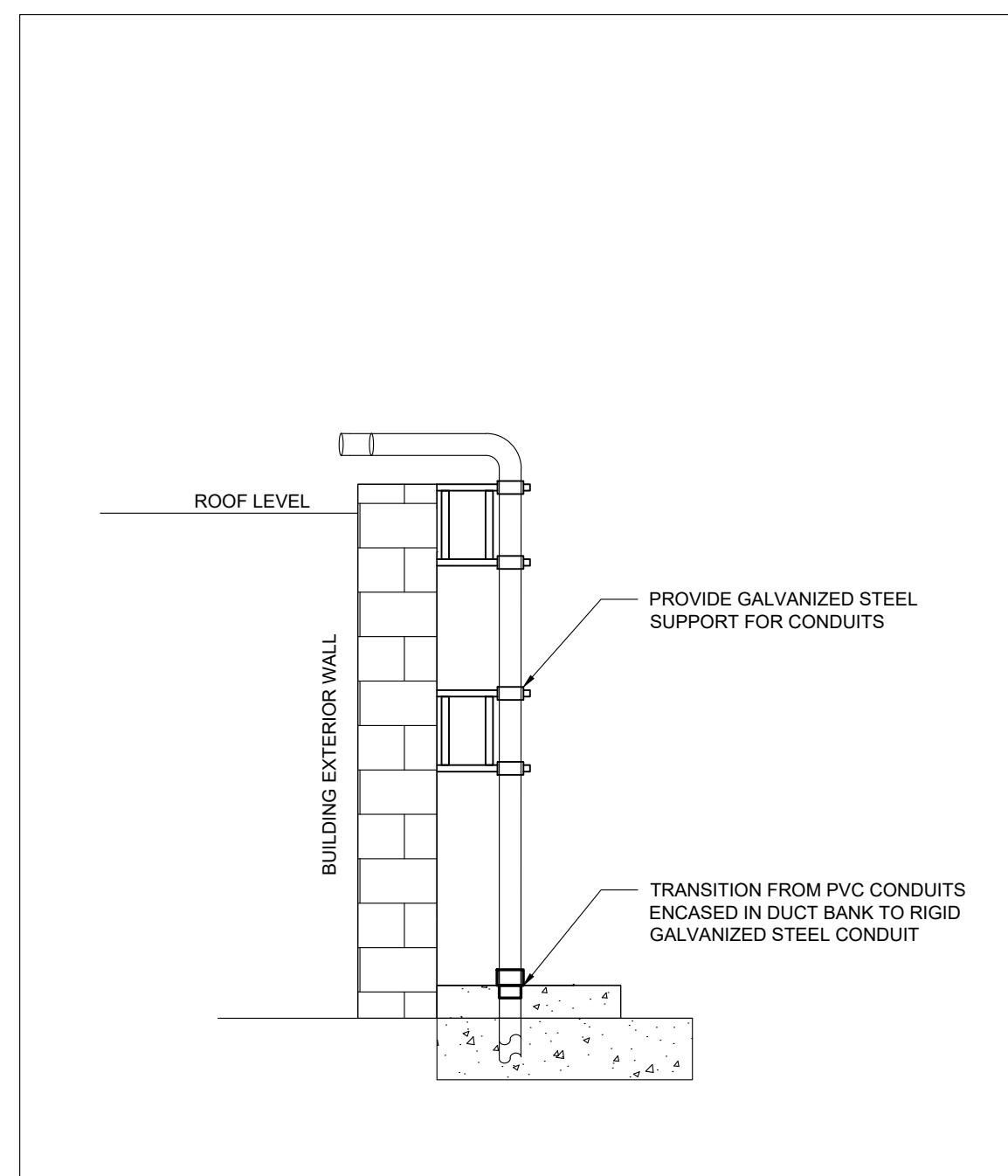
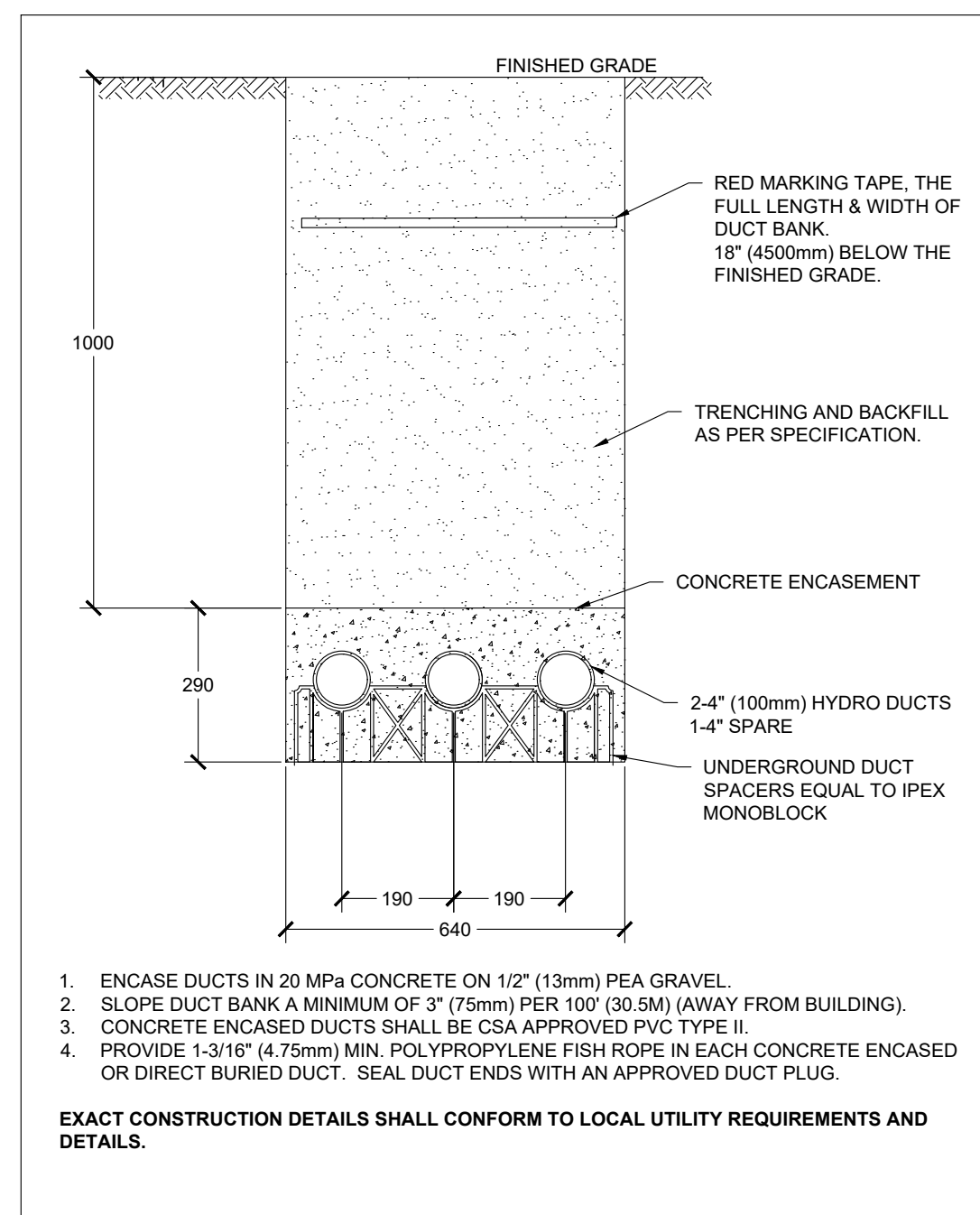
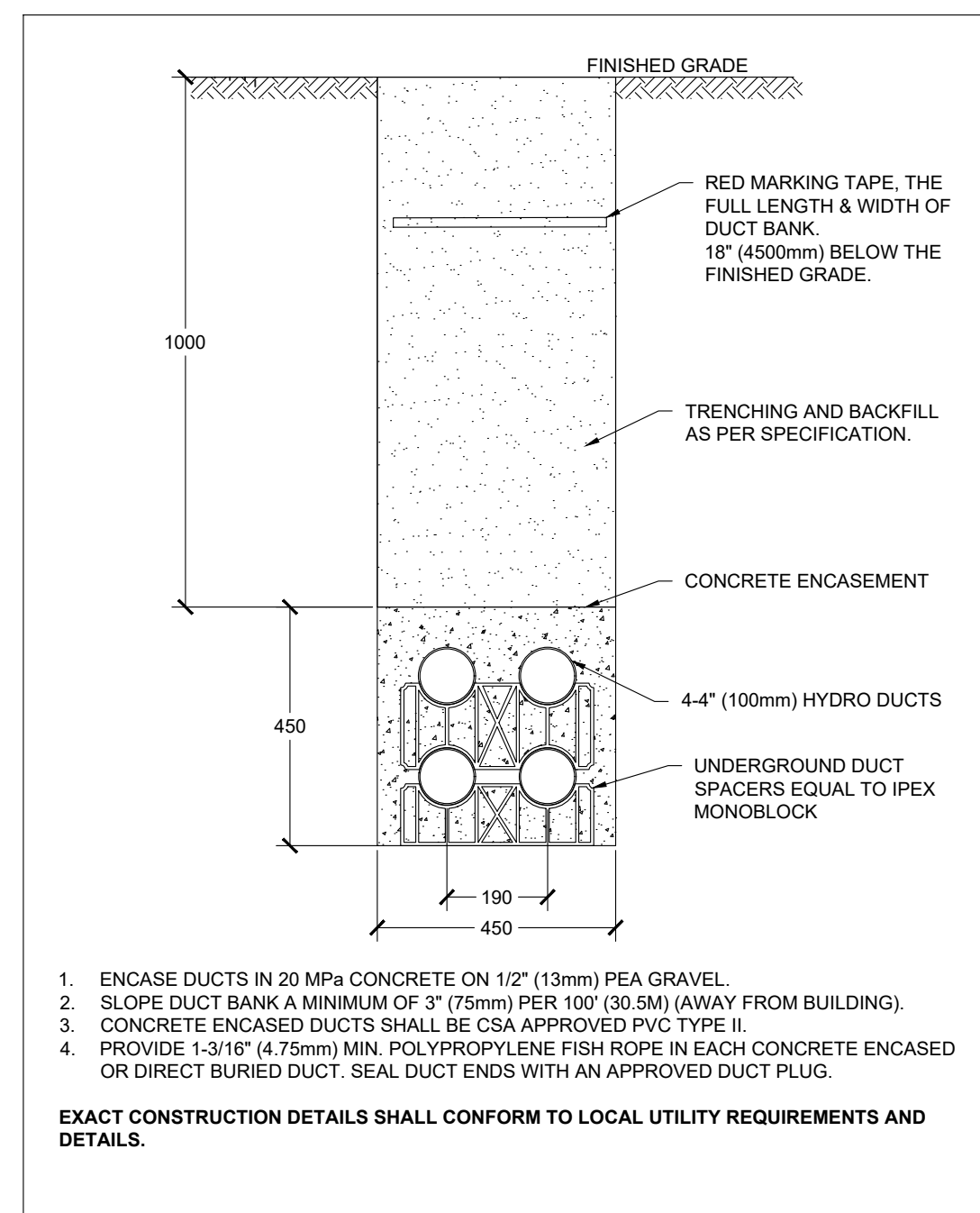






588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:

ELECTRICAL SERVICES
SITE PLAN

Drawn by: K.N.	Date: APRIL 2022
Checked by: K.N.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-04	Drawing No.: E-200
Set No.:	of:

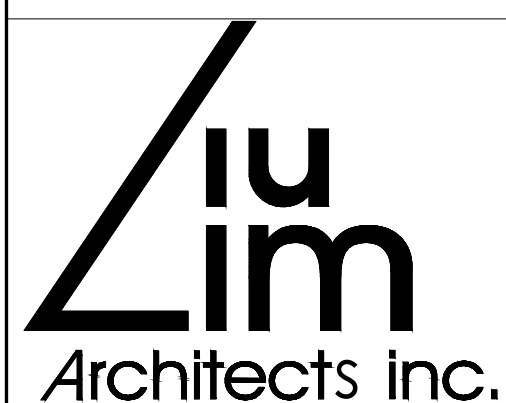


Revisions				
Ref.	No.	Description	Date	Initial
	1	50% REVIEW	2022/02/17	
	2	OAKVILLE HYDRO	2022/04/19	
	3	ESA PLAN REVIEW	2022/04/20	
	4	TENDER	2022/04/21	



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Unit 100 - 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



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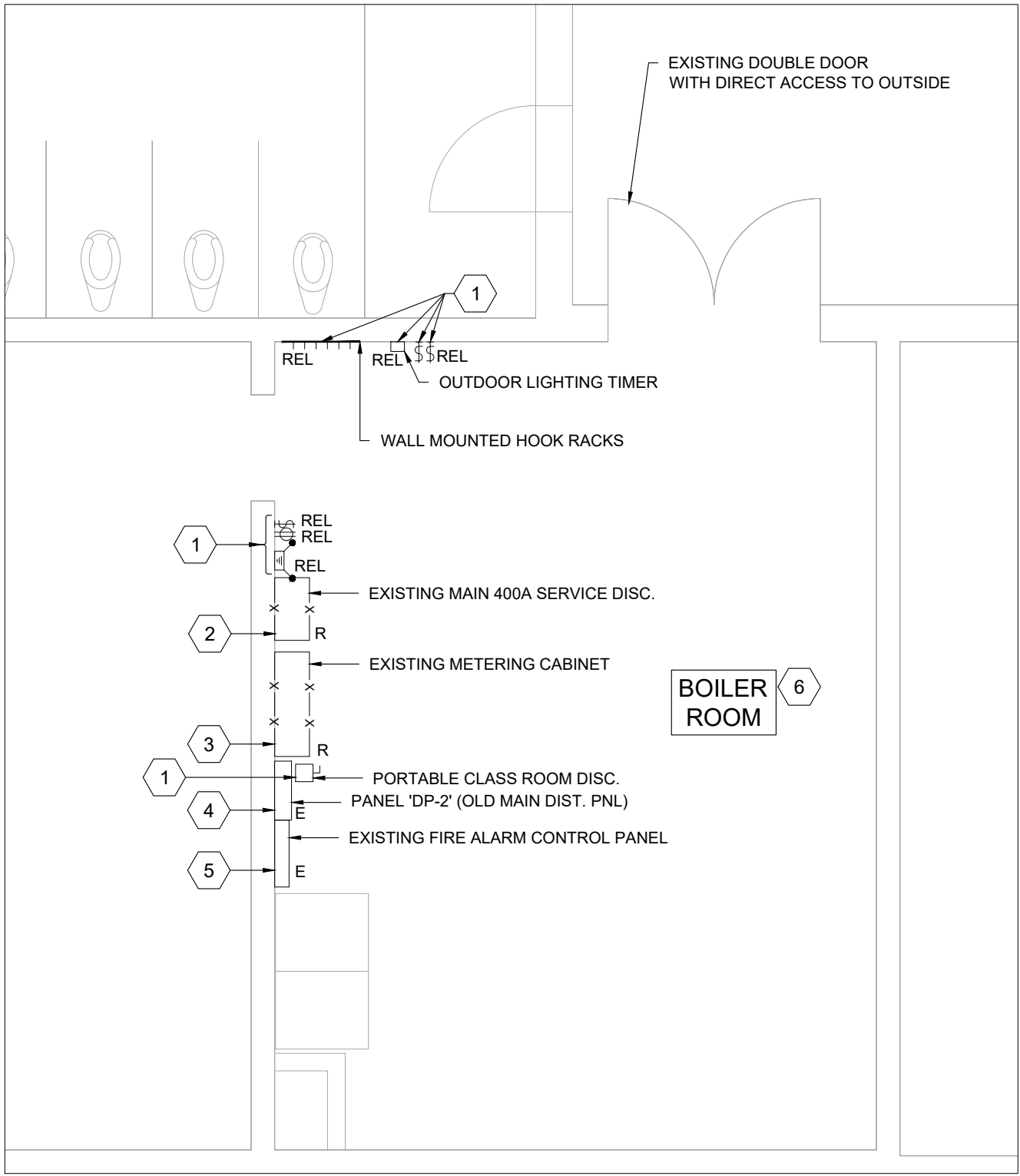
 **SAB**
ENGINEERING Inc.

588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL (905)-787 8885 FAX (905)-787 8771

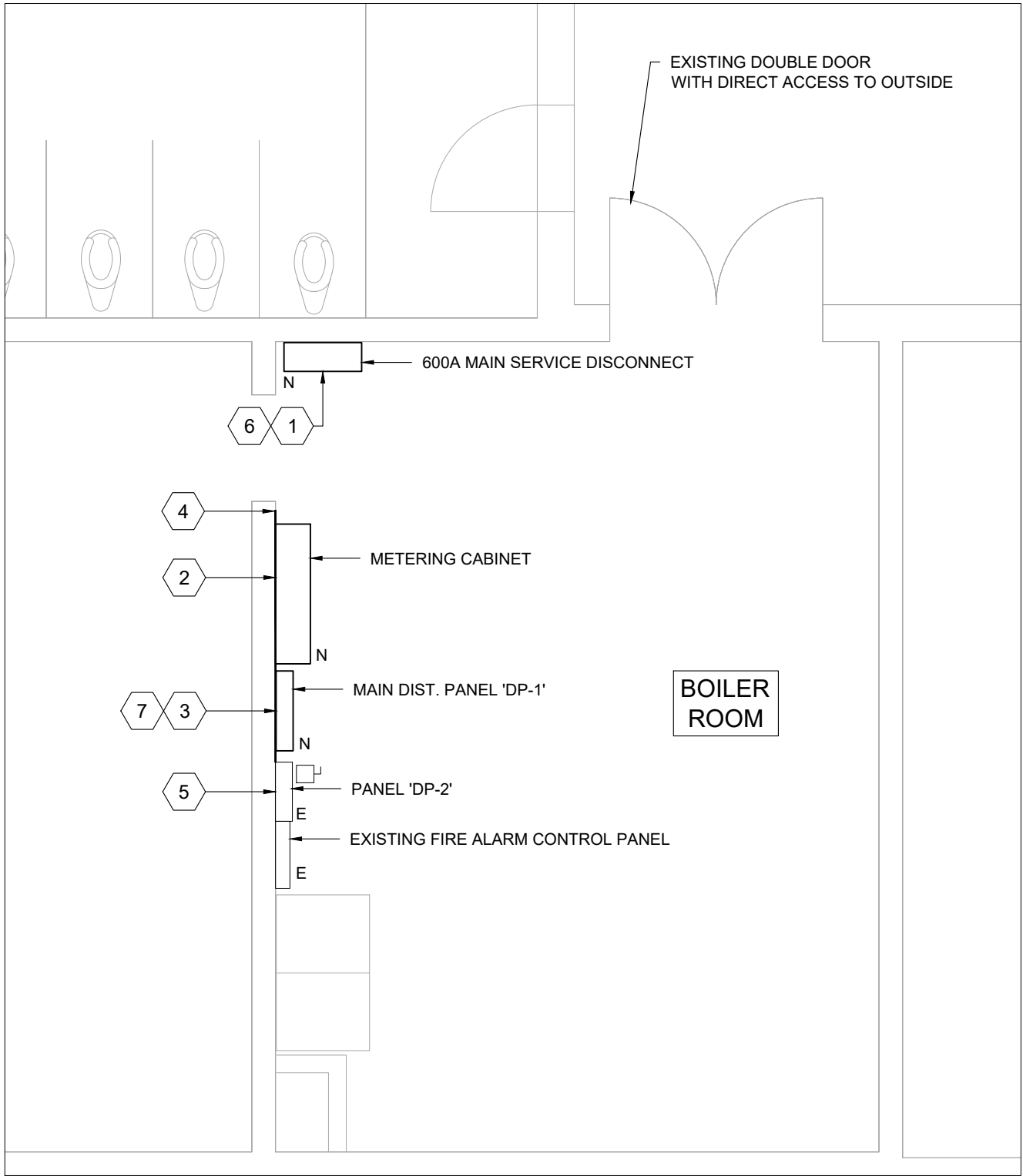
Title:

**ELECTRICAL SERVICES
DETAILS**

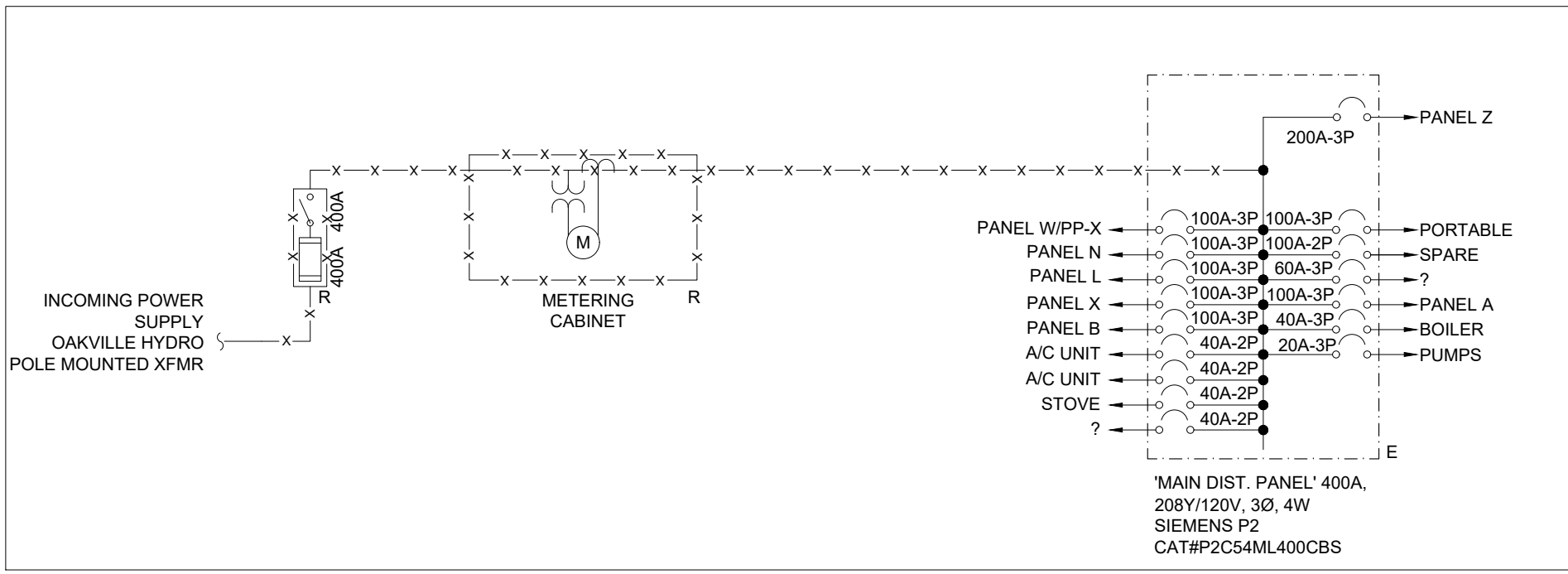
Drawn by: K.N.	Date: APRIL 2022
Checked by: K.N.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-04	Drawing No.: E-201
Set No.:	



1 BOILER ROOM - DEMO WORK
Scale: 1:50



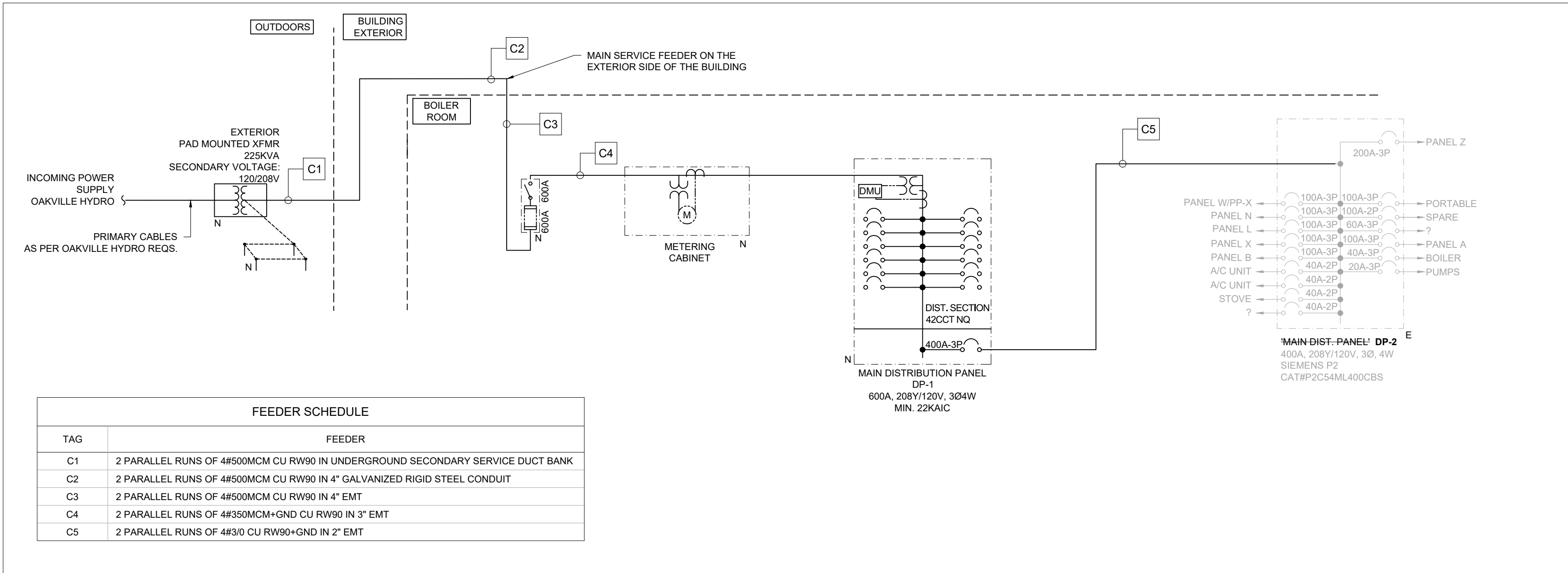
3 BOILER ROOM - NEW WORK
Scale: 1:50



2 SINGLE LINE DIAGRAM - DEMO WORK
NTS

DEMO NOTES:

- 1 ALLOW FOR RELOCATION OF THE EXISTING EQUIPMENT TO MAKE SPACE READY FOR NEW INSTALLATION.
- 2 REMOVE THE EXISTING 400A FUSED DISCONNECT SWITCH CW WIRING AND CONDUIT. REMOVE THE SERVICE CONDUCTOR GUARDS. PATCH, REPAIR AND PAINT CONDUCTOR PENETRATION POINT ON BOILER ROOM FLOOR TO MATCH EXISTING.
- 3 EXISTING OAKVILLE HYDRO METERING TO BE REMOVED.
- 4 EXISTING MAIN PANEL TO REMAIN, RE-FED AND RENAME AS SHOWN IN THE NEW CONSTRUCTION NOTES.
- 5 EXISTING FIRE ALARM CONTROL PANEL TO REMAIN.
- 6 ALLOW FOR RELOCATION OF ANY WALL/CEILING MOUNTED EQUIPMENT AS REQUIRED FOR NEW SERVICE AND DOGHOUSE INSTALLATION.



4 SINGLE LINE DIAGRAM - NEW WORK
NTS

DESIGN NOTES:

- 1 PROVIDE AND INSTALL NEW 600A FUSED DISCONNECT SWITCH, RATED FOR SERVICE ENTRANCE EQUIPMENT CW SYSTEM BACKBOARD AND FEEDERS AS SHOWN IN THE SINGLE LINE DIAGRAM.
- 2 PROVIDE AND INSTALL NEW 1200mmX1200mmX300mm METERING CABINET CW REMOVABLE 1100mmX1100mm BACK-PLATE AS PER OAKVILLE HYDRO REQUIREMENTS.
- 3 PROVIDE AND INSTALL NEW 600A, 120/208V, 3Ø/4W MAIN DISTRIBUTION PANEL CW A DIGITAL METERING UNIT AND BRANCH CIRCUITS AS SHOWN IN THE SLD. NEW MAIN DISTRIBUTION PANEL MUST COMPLETE WITH AT LEAST 42CCT NQ DISTRIBUTION TO BE USED FOR NEW HVAC EQUIPMENT INSTALLATION.
- 4 EXTEND THE EXISTING SYSTEM BACKBOARD TO SUITE NEW EQUIPMENT INSTALLATION.
- 5 RENAME THE OLD MAIN DISTRIBUTION PANEL TO PANEL 'DP-2'. PROVIDE AND INSTALL UMMACOID LABEL. PROVIDE AN UPDATE, TYPED, PRINTED PANEL SCHEDULE TO REPLACE THE EXISTING SCHEDULE.

- 6 COORDINATE WITH ROOFING CONTRACTOR FOR THE EXACT LOCATION AND SIZE OF THE NEW DOGHOUSE. ALLOW FOR RELOCATION OF THE EXISTING EQUIPMENT IN BOILER ROOM AS REQUIRED.

- 7 PANEL 'DP-1' SPECIFICATION & FEATURES

- ENCLOSURE TYPE 2, WITH DOOR AND LOCK
- BOX CAT# MH68HH
- DIMENSIONS: 74"H x 27"W x 5.75"D
- BUSSING: 600A RATED COPPER BUS, SILVER/TIN PLATED
- DRIP HOOD
- INCREASE TOP END GUTTER 6"
- BRANCH USER PLACEMENT
- SOLID NEUTRAL
- INCREASE LEFT SIDE GUTTER 7"
- GROUND BAR
- PM5563 W/ DISPLAY
- TOP FEED
- 22KA SCRR
- MAIN LUG 600A
- APPROVED VENDOR: SQUARE D

GENERAL SERVICE UPGRADE NOTES:

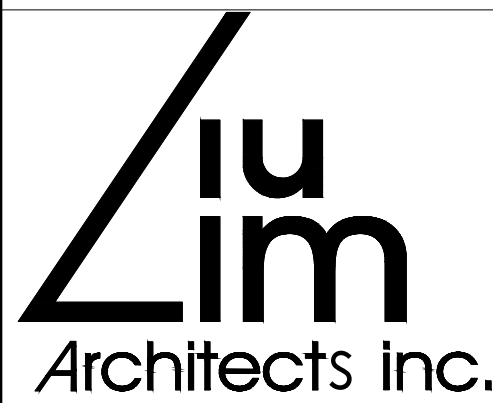
1. CHECK THE SITE AND DO ALL REQUIRED MEASURING. CHECK THE REQUIRED BENDING RADIUS FOR ALL FEEDERS AND BRANCH CIRCUITS PRIOR ORDERING EQUIPMENT.
2. CHECK THE PHASE ROTATION BEFORE AND AFTER SERVICE CHANGE OVER.
3. REFER TO THE STRUCTURAL DRAWINGS FOR CONDUIT ROOF TOP SUPPORT AND DOGHOUSE DETAILS.
4. PROPERLY SEAL ALL CONDUITS TO AVOID ANY CONDENSATION BUILDUP AS PER OESC RULE 6-312.
5. MODIFY THE EXISTING BUILDING GROUNDING AS REQUIRED TO SUITE NEW WORK AND OESC REQUIREMENTS.

ELECTRICAL LEGEND	
ABBREVIATION	
E	EXISTING TO REMAIN
R	EXISTING TO BE DEMOLISHED/REMOVED
N	NEW MATERIAL/EQUIPMENT/SERVICES
REL	MATERIAL/EQUIPMENT/SERVICES TO BE RELOCATED.
ER	EXISTING IN RELOCATED POSITION
WP	WEATHER PROOF
NIC	NOT IN CONTRACT
SINGLE LINE DIAGRAM	
	CIRCUIT BREAKER
	DRAWOUT CIRCUIT BREAKER
	FUSED SWITCH
	POWER DISTRIBUTION TRANSFORMER
	METER - METERING CABINET
	AUTOMATIC TRANSFER SWITCH (CIRCUIT BREAKER TYPE)
	AUTOMATIC TRANSFER SWITCH (NON-CIRCUIT BREAKER TYPE)

Revisions				
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△	1	50% REVIEW	2022/02/17	
△	2	OAKVILLE HYDRO	2022/04/19	
△	3	ESA PLAN REVIEW	2022/04/20	
△	4	TENDER	2022/04/21	



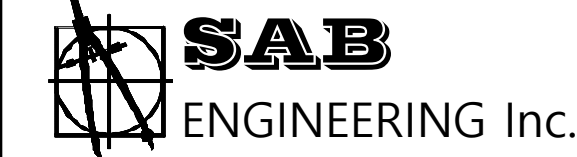
Project:
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2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6



Unit 100 – 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



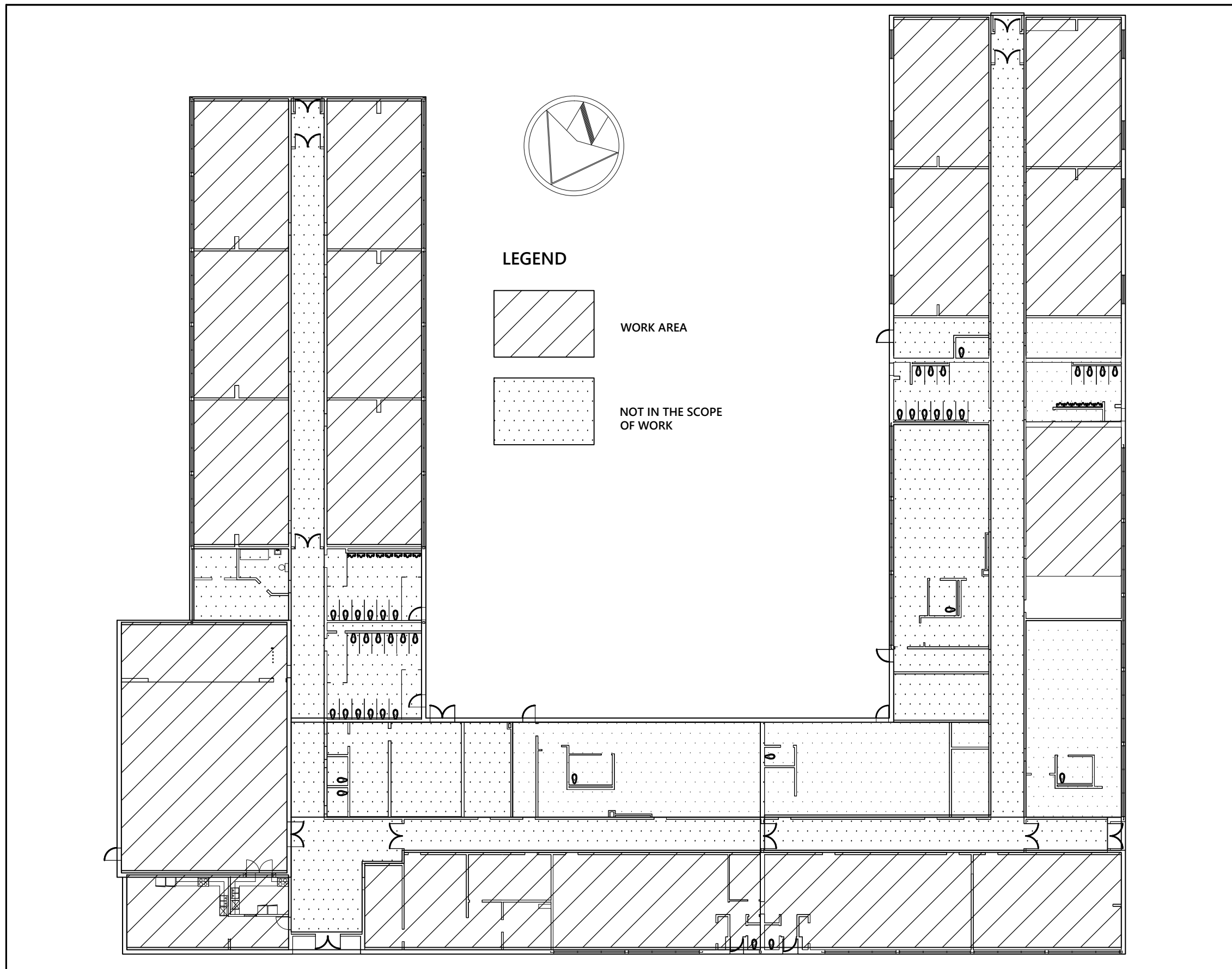
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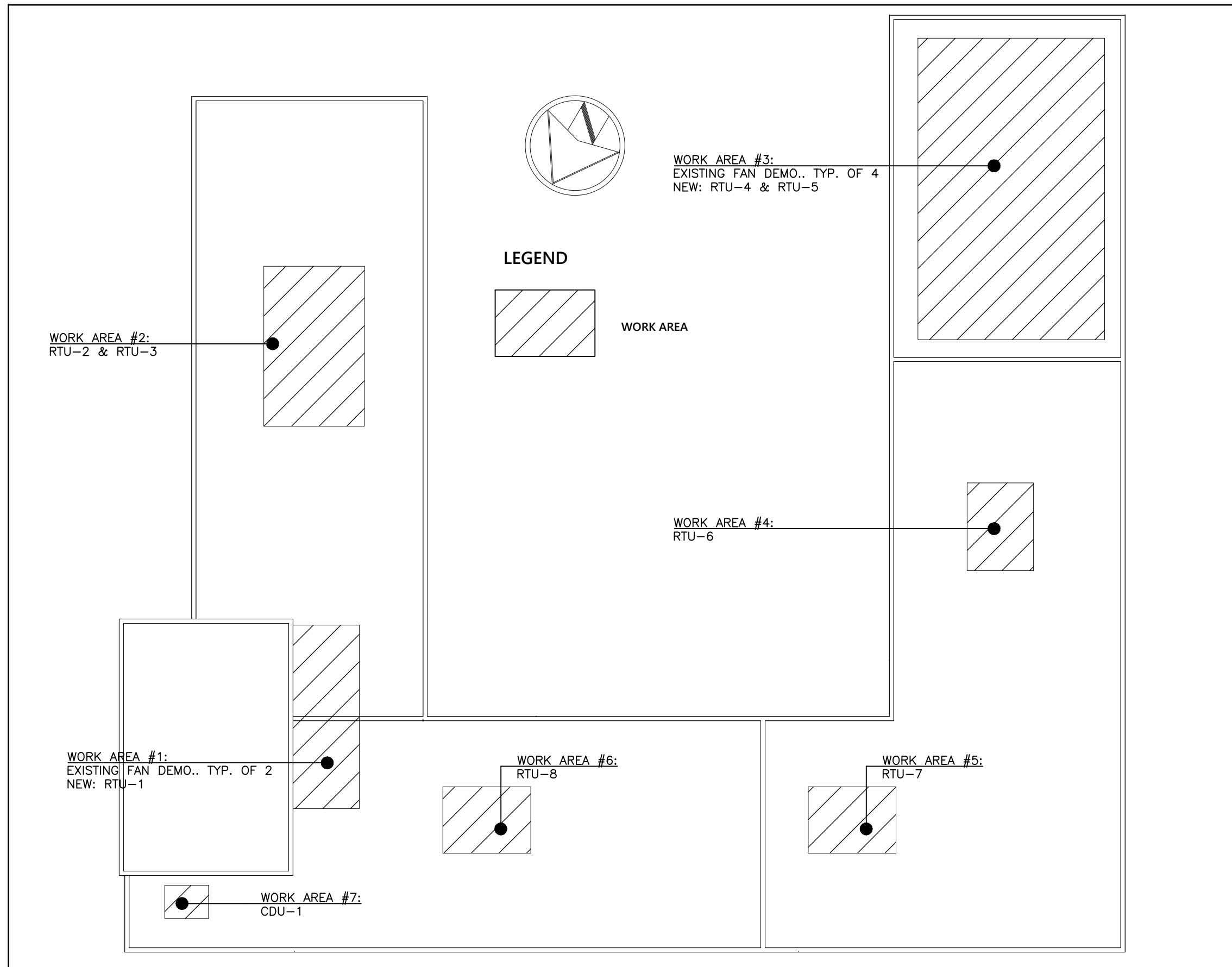
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:
**ELECTRICAL SERVICES
FLOOR PLAN
&
SINGLE LINE DIAGRAM**

Drawn by: K.N.	Date: APRIL 2022
Checked by: K.N.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-04	Drawing No.: E-300
Set No.:	of:



SCHOOL KEY PLAN - GROUND FLOOR
SCALE: 1:400



SCHOOL KEY PLAN - ROOF
SCALE: 1:400

SCHEDULE OF ROOFTOP UNIT															
TAG	SUPPLY AIR FLOW CFM	SUPPLY E.S.P. Pa [in. wg]	SUPPLY FAN HP	HEATING CAPACITY		MIN. OUTDOOR AIR (CFM)	DX COOLING PERFORMANCE				UNIT POWER			UNIT WEIGHT KG [LBS]	REMARKS
				INPUT kW [MBH]	OUTPUT kW [MBH]		TOTAL CAP. kW [MBH]	SENS. CAP. kW [MBH]	TEMP °C [°F]	VOLTAGE	AMPS (MCA)	MOCP (A)			
													EDBT/EWBT		
RTU-1	4,000	249 [1.0]	2.75	73.3 [250]	58.6 [200]	1,500	33.4 [114]	27.5 [94]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	48	60	730 [1,608]	
RTU-2	4,000	375 [1.5]	2.75	73.3 [250]	58.6 [200]	1,500	33.4 [114]	27.5 [94]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	48	60	730 [1,608]	
RTU-3	4,000	375 [1.5]	2.75	73.3 [250]	58.6 [200]	1,500	33.4 [114]	27.5 [94]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	48	60	730 [1,608]	
RTU-4	2,400	375 [1.5]	2.75	44.0 [150]	35.6 [122]	1,000	21.6 [74]	17.2 [59]	26.7/19.4 [80/67]	14.1/14.1 [57.3/57.1]	208/3/60	37	50	639 [1,408]	
RTU-5	2,400	375 [1.5]	2.75	44.0 [150]	35.6 [122]	1,000	21.6 [74]	17.2 [59]	26.7/19.4 [80/67]	14.1/14.1 [57.3/57.1]	208/3/60	37	50	639 [1,408]	
RTU-6	2,000	125 [0.5]	1.00	38.1 [130]	30.5 [104]	550	17.8 [61]	13.5 [46]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	30.0	45	450 [992]	
RTU-7	4,000	375 [1.5]	2.75	73.3 [250]	58.6 [200]	1,500	33.4 [114]	27.5 [94]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	48	60	730 [1,608]	
RTU-8	2,000	125 [0.5]	1.00	38.1 [130]	30.5 [104]	150	17.8 [61]	13.5 [46]	26.7/19.4 [80/67]	14.5/14.2 [58.2/57.6]	208/3/60	30.0	45	450 [992]	

NOTE: CLG: AIR EDBT/EWBT 78°F/66°F, LDBT/LWBT 55.9/55.2°F;

SCHEDULE OF VAV COILS									
TAG	SERVING	MAX. AIR FLOW L/S (CFM)	MIN. AIR FLOW L/S (CFM)	MIN. PRES. DIFFERENT. (PA)	INLET SIZE DIA. (MM)	OUTLET SIZE (MM)	DIMENSIONS LxHxD MM(IN)	REMARKS	
VAV-2-1	CLASSROOM 01	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-2-2	CLASSROOM 02	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-2-3	CLASSROOM 03	755 (1,600)	520 (1,100)	2.5	300	425x350	470x390x330 [18.5x15.5x13]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-3-1	CLASSROOM 04	755 (1,600)	520 (1,100)	2.5	300	425x350	470x390x330 [18.5x15.5x13]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-3-2	CLASSROOM 05	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-3-3	CLASSROOM 06	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-4-1	CLASSROOM 13	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-4-2	CLASSROOM 12	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-5-1	CLASSROOM 14	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-5-2	CLASSROOM 15	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-7-1	CLASSROOM 17	567 (1,200)	400 (850)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-7-2	CLASSROOM 18	661 (1,400)	450 (950)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	
VAV-7-3	CLASSROOM 19	661 (1,400)	450 (950)	2.5	250	350x300	390x340x305 [15.5x13.5x12]	C/W MINIMUM 900MM SOUND ATTENUATOR	

SCHEDULE OF OUTDOOR CONDENSERS									
TAG	MANUFACTURER	MODEL	COOLING CAP. TONS [MBH]	REFRIGERANT	CONNECTION SIZES RL (MM/IN)RG (MM/IN)	EQUIPMENT SIZE (HxLxW, MM)	POWER SUPPLY (V/PH/MCA)	MOCP	REMARKS
CU-1	MITSUBISHI	MUY-GE24NA	2.0 [24]	R410A	9.5 [3/8] 18 [3/4]	875x840x330	230/1/60	20	54 [119] C/W ECOFOOT SNOW STAND
NOTE:									

SCHEDULE OF INDOOR A/C UNITS														
TAG	TYPE	MANUFACTURER	MODEL	CLG. CAP. (TONS/KW)	AIR FLOW (CFM)	POWER SUPPLY (V/PH/Hz)	MCA (A)	MOCP (A)	WEIGHT KG [LB]	EQUIPMENT SIZE (HxLxW, MM)	REFRIG. PIPE (MM)		DRAIN (MM)	REMARKS
											LIQUID	GAS		
AC-1	WALL MOUNTED	MITSUBISHI	MSY-GE24NA	2.0/7.3	388-738	230/1ø/60	1.0	20	16.8 [37]	330x1,115x240	9.5	18	32	COOLING ONLY; C/W CONDENSATE PUMP
NOTE: COMPLETE WITH WIRED MA REMOTE CONTROLLERS, AND BACNET ADAPTER OR CENTRAL CONTROLLER FOR BACNET INTERFACE WITH EXISTING BUILDING AUTOMATION SYSTEM														

SYMBOLS LIST	
SYMBOL	DESCRIPTION
	SHEET METAL DUCT - FIRST FIGURE INDICATES DIMENSION SHOWN
	SHEET METAL RISER UP - SUPPLY
	SHEET METAL RISER UP - RETURN AND EXHAUST
	SHEET METAL RISER DOWN - SUPPLY
	SHEET METAL RISER DOWN - RETURN AND EXHAUST
	FUSIBLE LINK FIRE DAMPER WITH ACCESS DOOR IN DUCT
	MOTORIZED DAMPER
	VOLUME DAMPER
	SUPPLY AIR GRILLE
	EXHAUST OR RECIRC. GRILLE
	FLEXIBLE CONNECTION
	OPEN ENDED DUCT WITH BALANCING DAMPER AND BELLMOUTH INLET
	ACCESS DOOR
	UNIT HEATER
	ROOM THERMOSTAT
	UNION
	MANUAL AIR VENT
	AUTOMATIC CONTROL VALVE - TWO WAY
	MIXING OR DIVERTER VALVE (3-WAY)
	VALVE
	BALANCING VALVE
	CHECK VALVE
	STRAINER - OVER 50mm PROVIDE WITH VALVED FLUSHING DRAIN
	PIPE TURNING DOWN
	PIPE TURNING UP
	PIPE REDUCER
	PLUMBING TRAP
	THERMOMETER
	PRESSURE GAUGE
	SMOKE SENSOR
	FLOOR DRAIN
	ROOF DRAIN
	RAIN WATER LEADER
	HOSE BIBB
	VENT THROUGH ROOF
	HEATING WATER SUPPLY
	HEATING WATER RETURN
	DOMESTIC COLD WATER PIPE
	DOMESTIC HOT WATER PIPE
	CONNECT TO EXISTING
	CUT POINT OF EXISTING SERVICE
	COMPLETE WITH
	EXHAUST FAN
	EXISTING TO REMAIN
	TO BE RELOCATED
	VARIABLE FREQUENCY DRIVE
	PERIMETER CONVECTOR
	PERIMETER CONVECTOR TYPE CV-1, FINNED ELEMENT LENGTH 2,200 MM, HEATING OUTPUT 2,000 W.
	DENOTES: SUPPLY AIR, RETURN AIR, OUTSIDE AIR, EXHAUST AIR

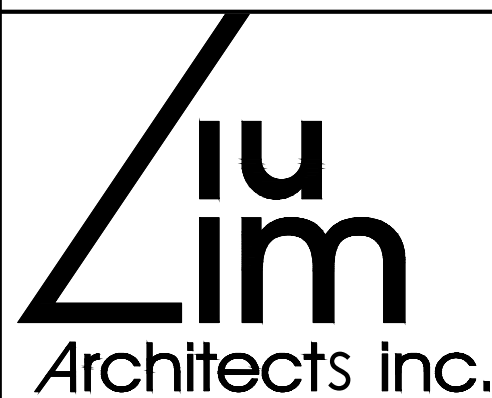
SCHEDULE OF GRILLES & DIFFUSERS						
TYPE	SERVICE	MANUFACTURER	MODEL	VOLUME CONTROL	FINISH	REMARKS
A	SUPPLY	E.H. PRICE	SDG	YES	B12	SPIRAL DUCT GRILLES
B	RETURN	E.H. PRICE	80ECRG	NO	B12	EGG CRATE RETURN GRILLE
C	SUPPLY	E.H. PRICE	SCD	YES	B12	SQUARE CONE DIFFUSER
D	SUPPLY	E.H. PRICE	RCD	NO	B12	ROUND CONE DIFFUSER
E	RETURN	E.H. PRICE	95	NO	B12	LOUVERED RETURN GRILLE

SCHEDULE OF CONVECTOR									
TAG	MANUFACTURER	MODEL	HEATING OUTPUT (BTU/FT)	HEATING AGENT		TUBE DIAM (N)	FIN SIZE (IN)	FIN SPACING (FINS/FT)	REMARKS
				SUPPLY (°F)	RETURN (°F)				
RAD-1	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-2	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-3	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-4	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-5	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-6	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-16A	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-17	ENGINEERED AIR	1 ROW	1,060	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-18	ENGINEERED AIR	1 ROW	1,060	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE
RAD-19	ENGINEERED AIR	3 ROWS (12" CENTERS)	3,010	82 [180]	71 [160]	1 1⁄2"	4" x 4"	50/FT	WALL MOUNTED/WITHOUT ENCLOSURE

Revisions				
Ref.	No.	Description	Date	Initial
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△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	



Project:
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RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6



Unit 100 - 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



Consultant:

588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

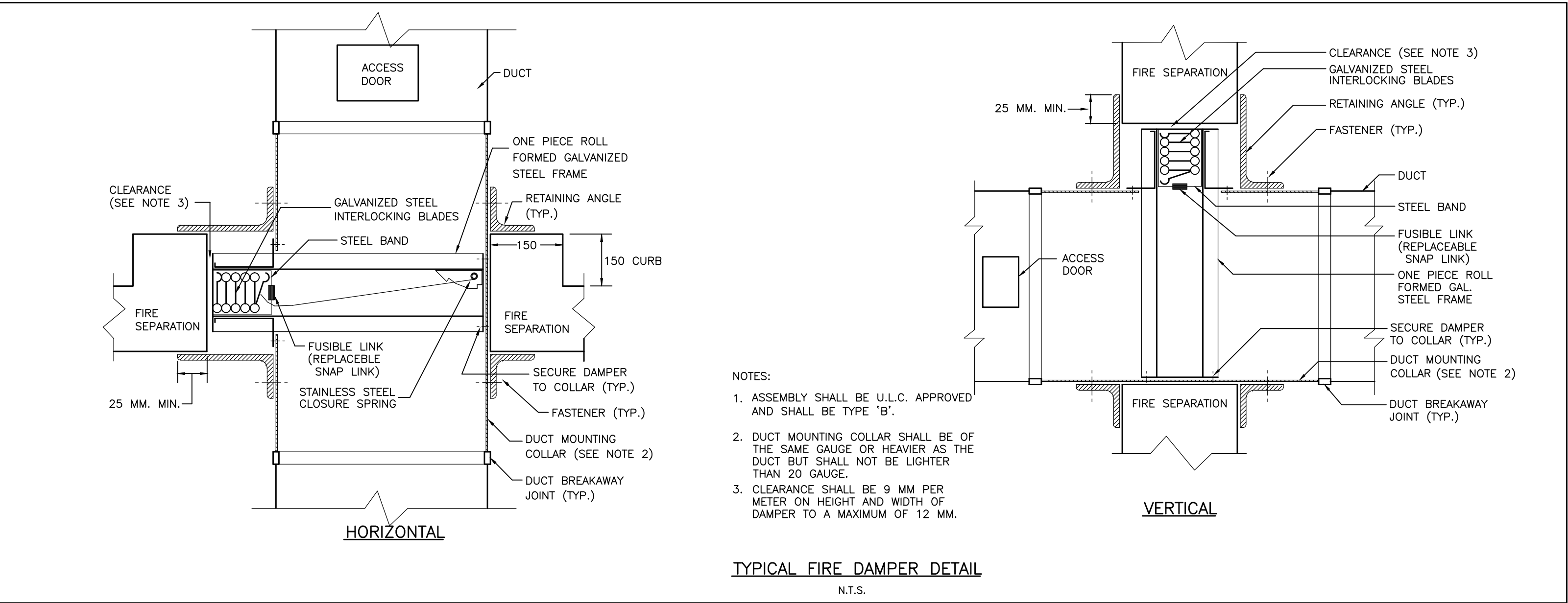
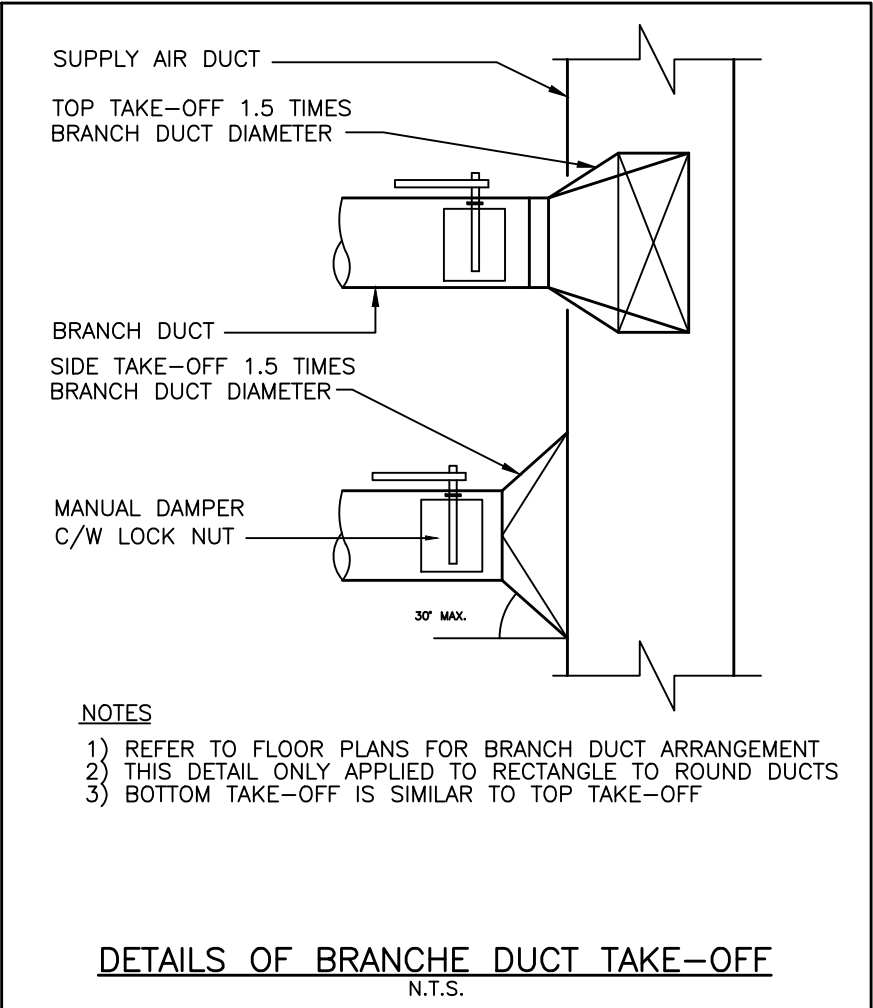
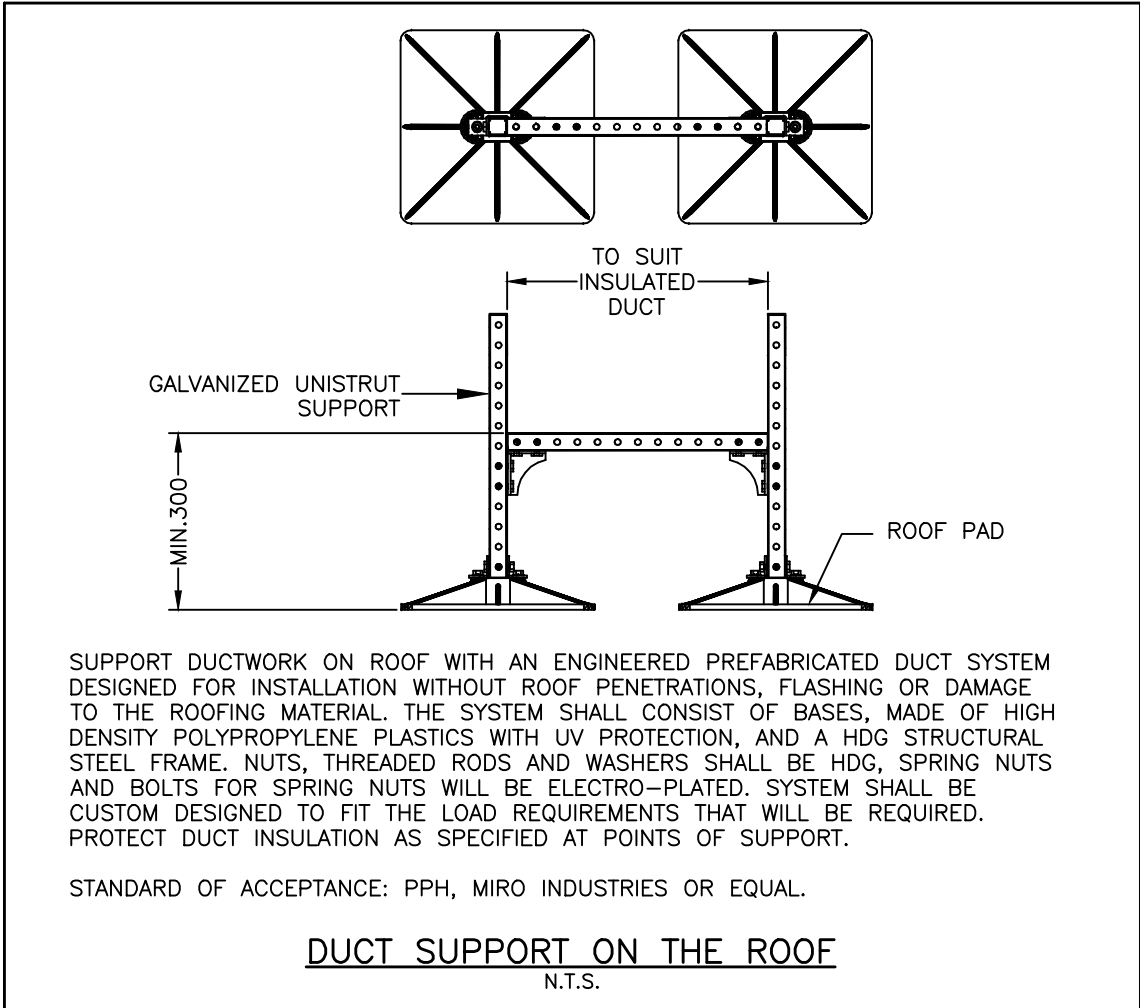
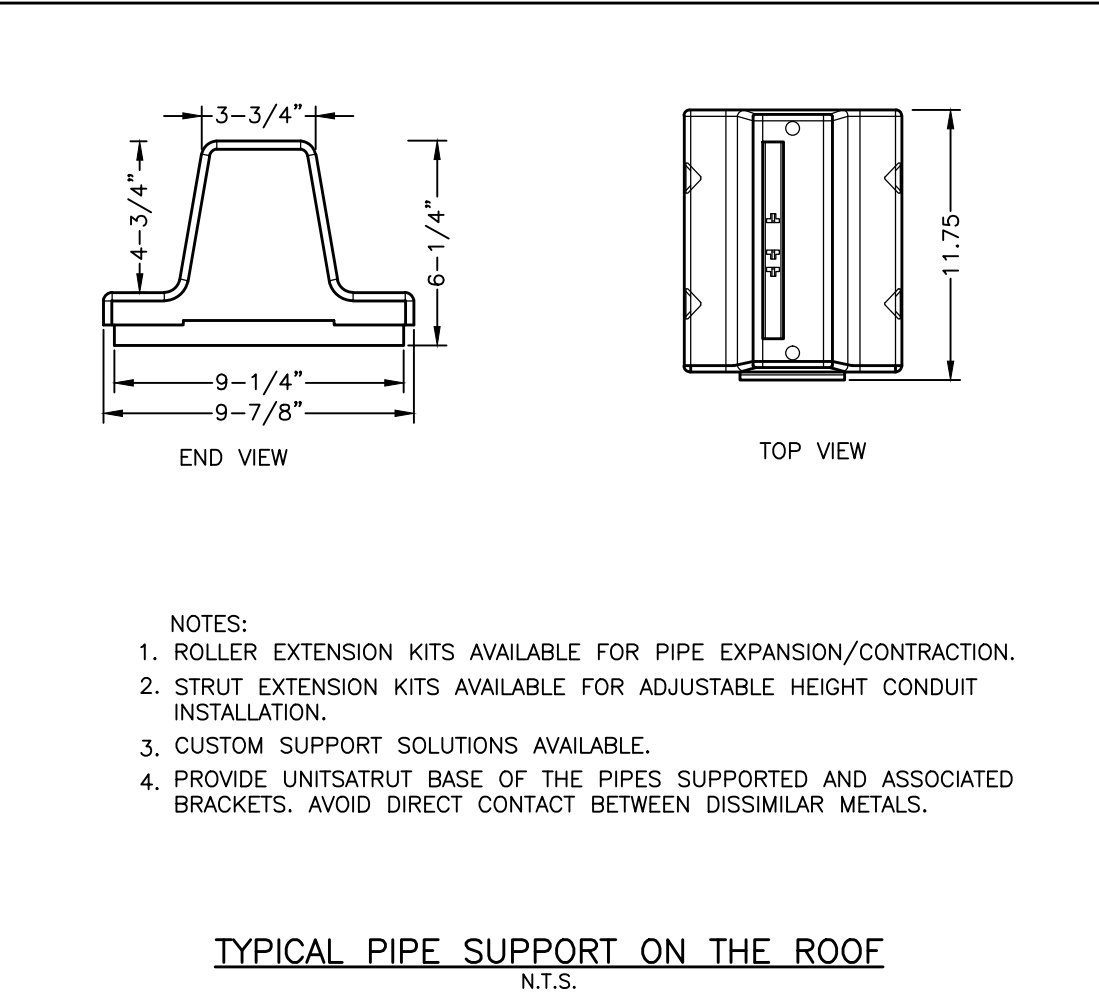
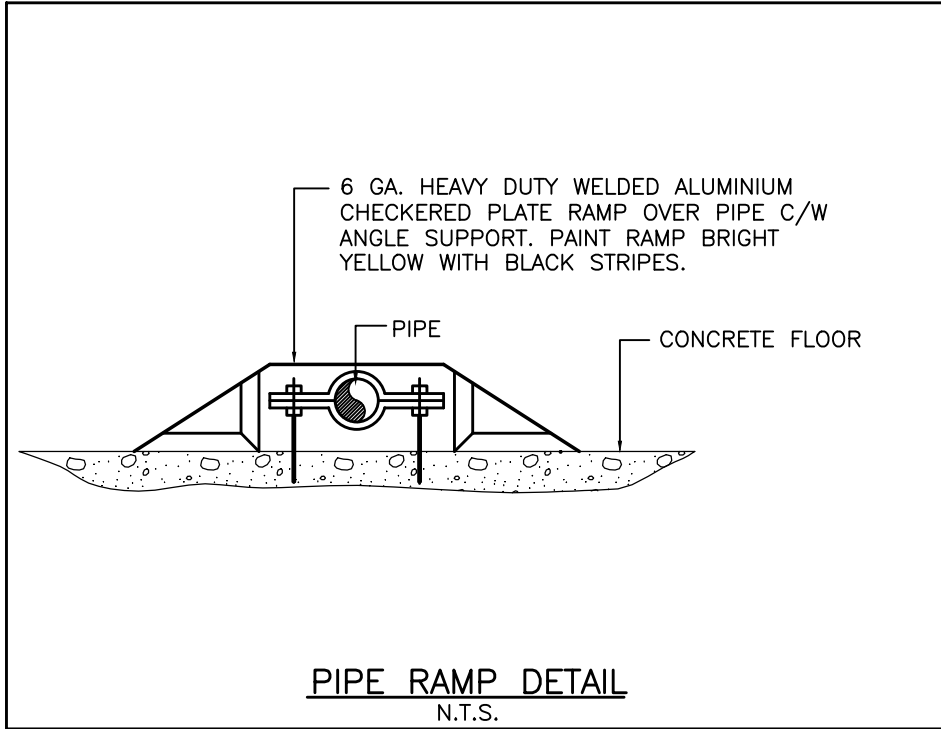
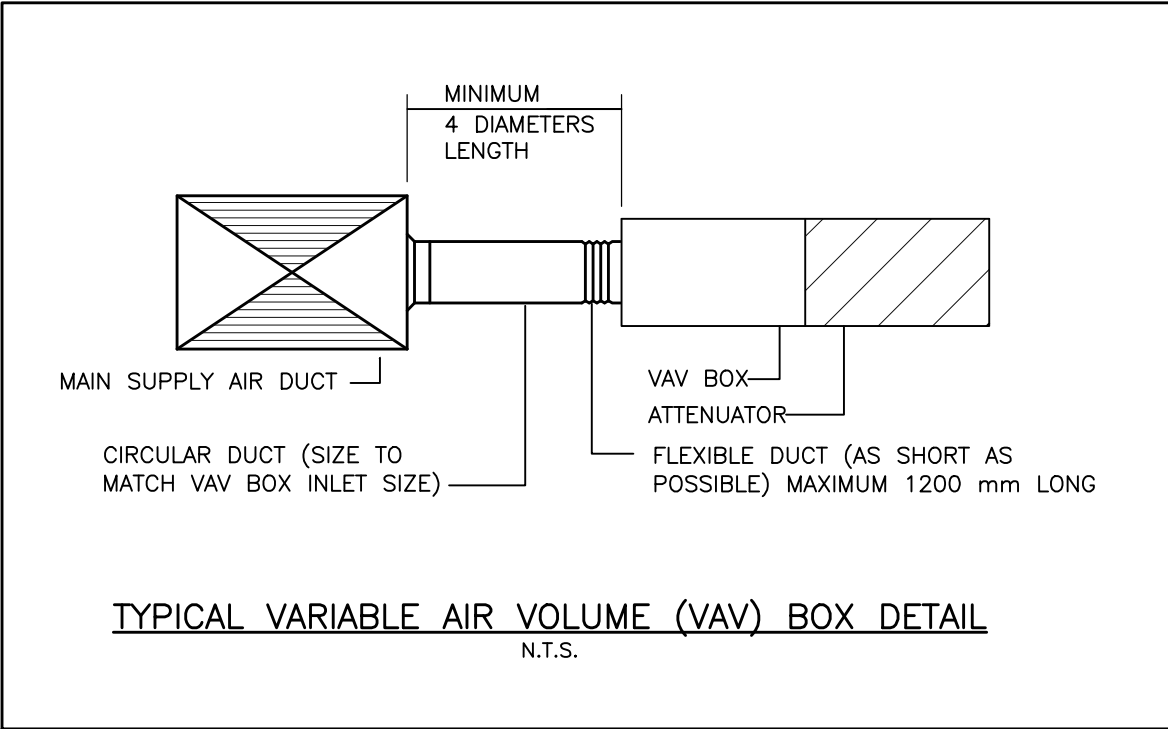
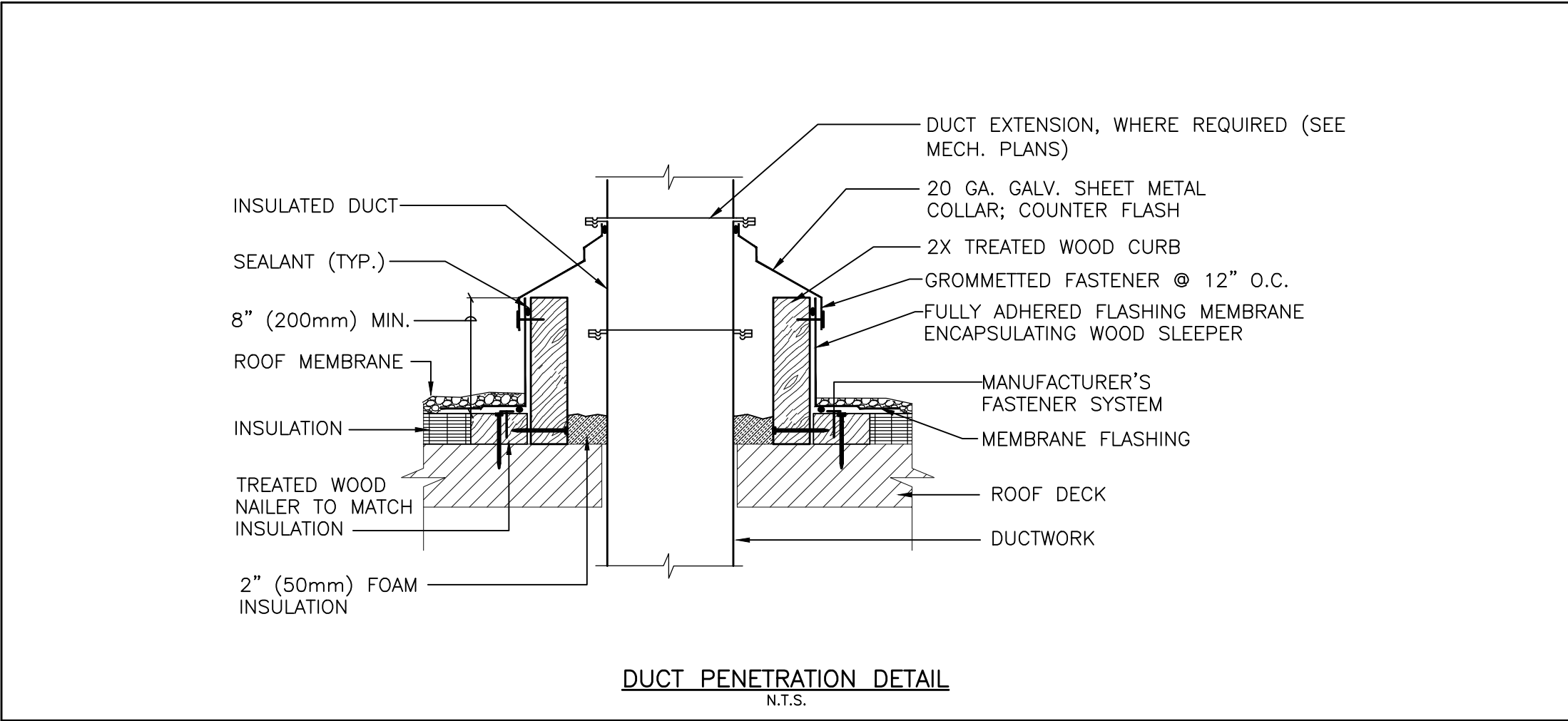
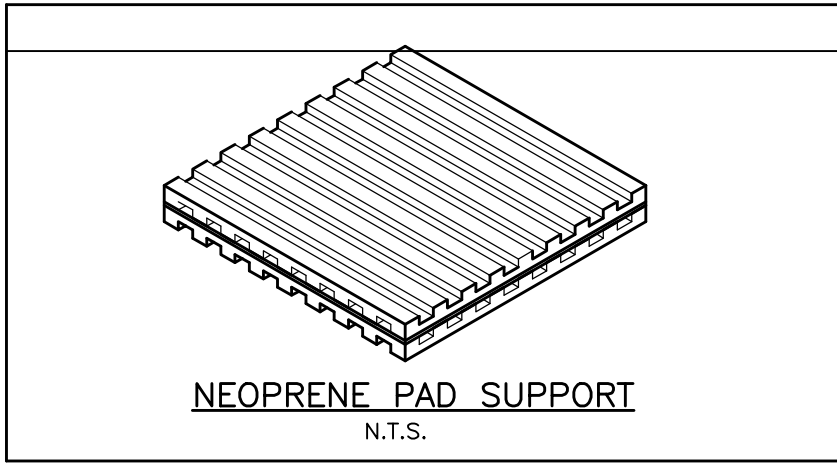
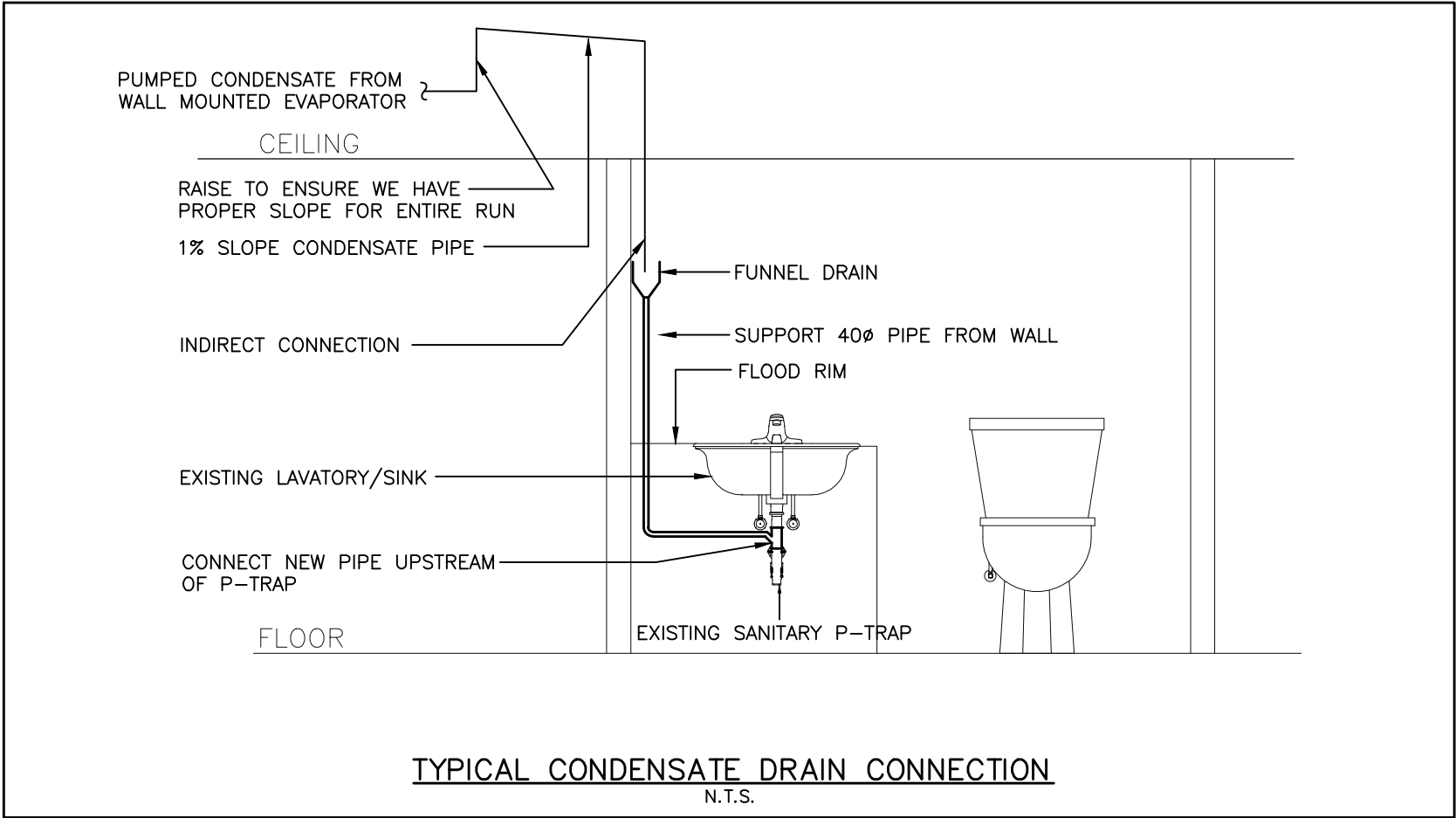
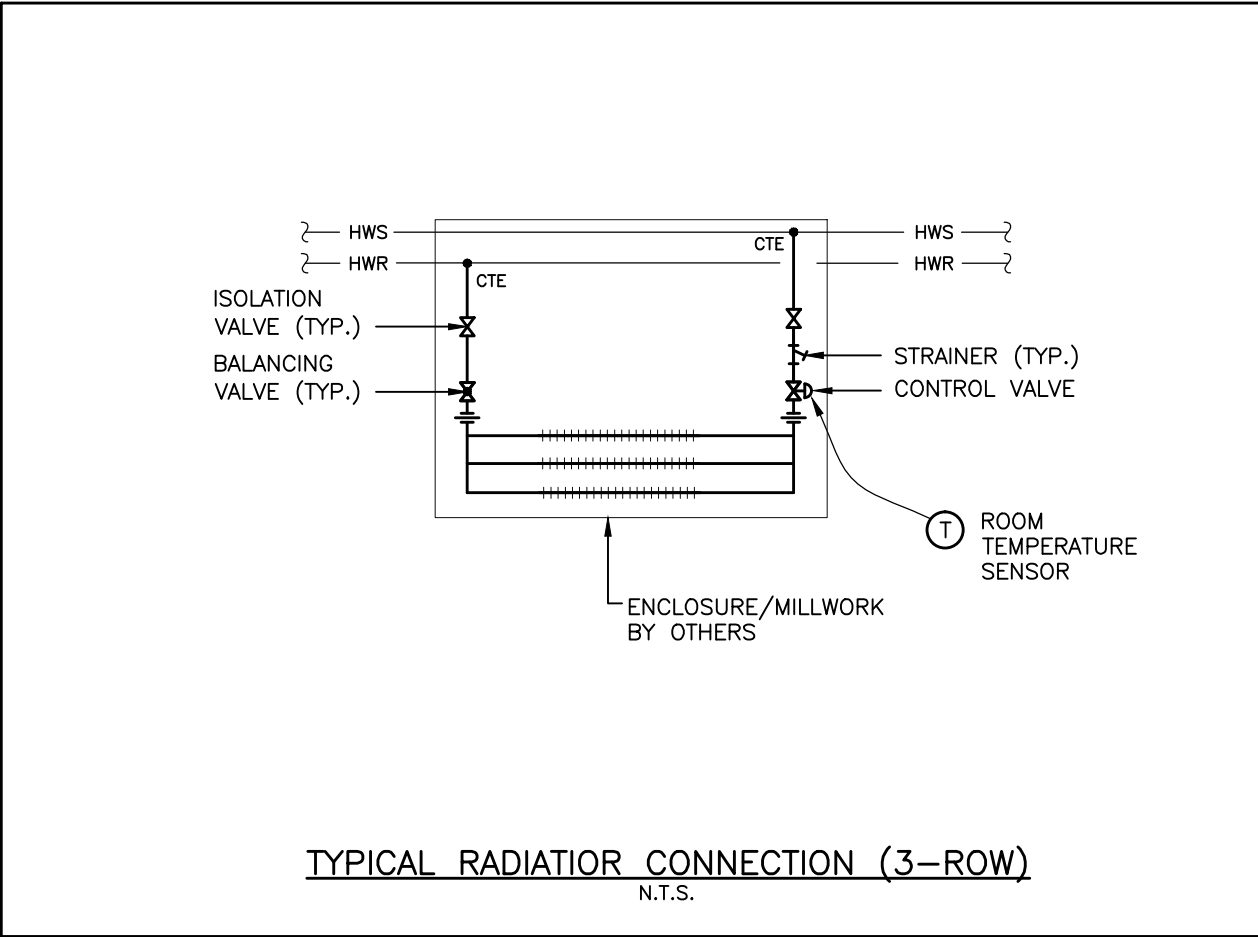
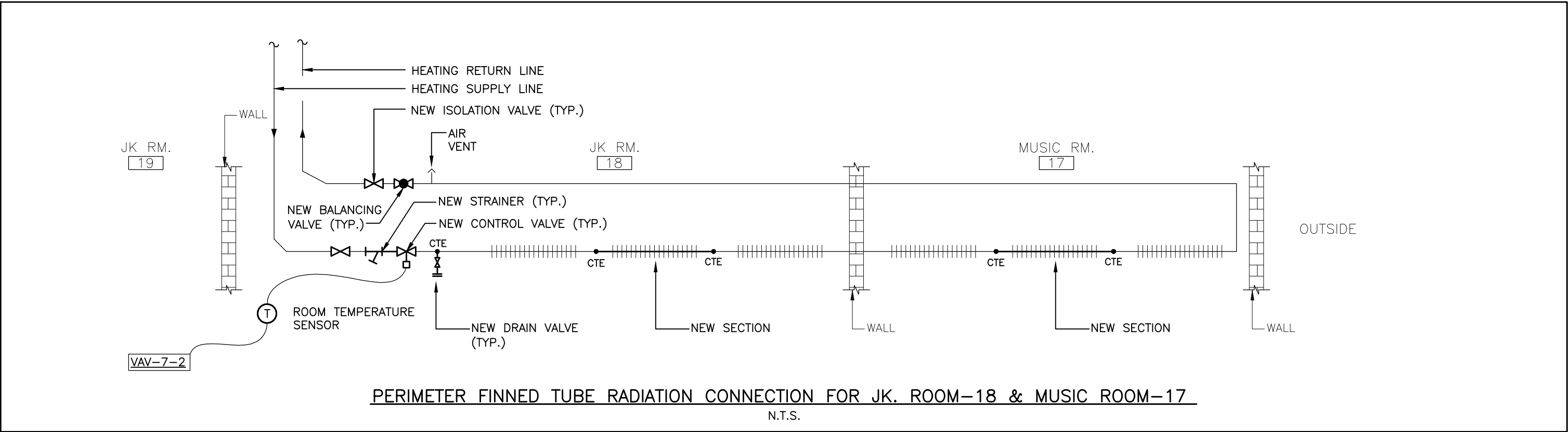
Title:
SYMBOL LIST, EQUIPMENT
SCHEDULE, KEY PLANS & NOTES
- MECHANICAL

Drawn by:
P.C.
Date:
DECEMBER 2021
Checked by:
O.S.
Plotted:
Scale:
AS SHOWN
Issued:
Job No.:
2022-01
Drawing No.:
M-1.1

Set No.:
of: 10

PLUMBING FIXTURE SERVICES SCHEDULE									
	FIXTURE NAME	TYPE	LOCATION	HOT	COLD	DRAIN	VENT		
S-1	KITCHEN SINK	COUNTER MOUNTED, DOUBLE COMPARTMENT, STAINLESS STEEL SINK	STAFF ROOM	15	15	40	40		

SCHEDULE OF KITCHEN HOOD					
TAG	MANUFACTURER	MODEL	VOLTS	AMPS	REMARKS
H-1	ANCONA	SLIM-D	120	0.83	750MM (30IN) WIDE, STAINLESS STEEL, MIN 300 CFM



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ON L6L 2P6

Unit 100 – 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591–6575 Fax:(416)591–1010

APRIL 2022
G. STRASHUN
PROVINCE OF ONTARIO

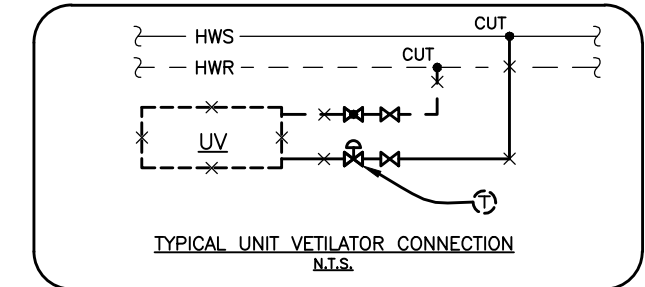
Consultant:

588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

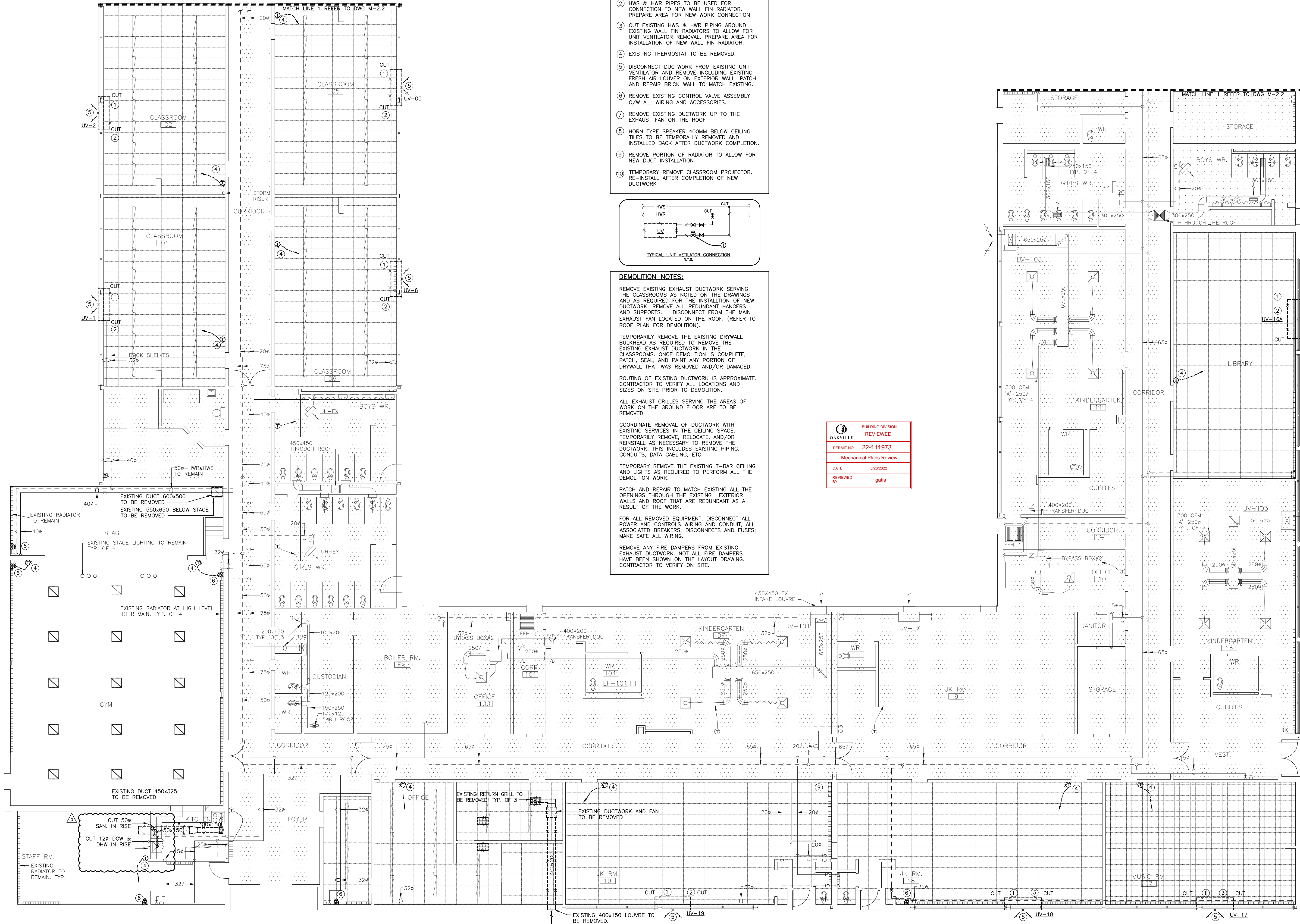
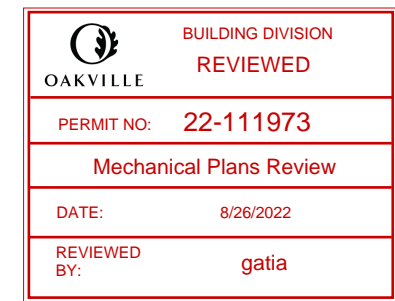
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PLUMBING FIXTURE SERVICES SCHEDULE & DETAILS – MECHANICAL	
Drawn by: P.C.	Date: DECEMBER 2021
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022–01	Drawing No.: M-1.2
Set No.:	

NOT IN THE SCOPE OF WORK

- KEY NOTES
- 1 REMOVE EXISTING UNIT VENTILATOR, CUT LOCALLY AND DISCONNECT FROM EXISTING HWS & HWR PIPING C/W ALL ACCESSORIES. DISCONNECT FROM POWER AND CONTROLS AND REMOVE ALL REDUNDANT WIRING.
 - 2 HWS & HWR PIPES TO BE USED FOR CONNECTION TO NEW WALL FIN RADIATOR. PREPARE AREA FOR NEW WORK CONNECTION
 - 3 CUT EXISTING HWS & HWR PIPING AROUND EXISTING WALL FIN RADIATORS TO ALLOW FOR UNIT VENTILATOR REMOVAL. PREPARE AREA FOR INSTALLATION OF NEW WALL FIN RADIATOR.
 - 4 EXISTING THERMOSTAT TO BE REMOVED.
 - 5 DISCONNECT DUCTWORK FROM EXISTING UNIT VENTILATOR AND REMOVE INCLUDING EXISTING FRESH AIR LOUVER ON EXTERIOR WALL. PATCH AND REPAIR BRICK WALL TO MATCH EXISTING.
 - 6 REMOVE EXISTING CONTROL VALVE ASSEMBLY C/W ALL WIRING AND ACCESSORIES.
 - 7 REMOVE EXISTING DUCTWORK UP TO THE EXHAUST FAN ON THE ROOF
 - 8 HORN TYPE SPEAKER 400MM BELOW CEILING TILES TO BE TEMPORARILY REMOVED AND INSTALLED BACK AFTER DUCTWORK COMPLETION.
 - 9 REMOVE PORTION OF RADIATOR TO ALLOW FOR NEW DUCT INSTALLATION
 - 10 TEMPORARILY REMOVE CLASSROOM PROJECTOR. RE-INSTALL AFTER COMPLETION OF NEW DUCTWORK



- DEMOLITION NOTES:
- REMOVE EXISTING EXHAUST DUCTWORK SERVING THE CLASSROOMS AS NOTED ON THE DRAWINGS AND AS REQUIRED FOR THE INSTALLATION OF NEW DUCTWORK. REMOVE ALL REDUNDANT HANGERS AND SUPPORTS. DISCONNECT FROM THE MAIN EXHAUST FAN LOCATED ON THE ROOF. (REFER TO ROOF PLAN FOR DEMOLITION).
- TEMPORARILY REMOVE THE EXISTING DRYWALL BULKHEAD AS REQUIRED TO REMOVE THE EXISTING EXHAUST DUCTWORK IN THE CLASSROOMS. ONCE DEMOLITION IS COMPLETE, PATCH, SEAL, AND PAINT ANY PORTION OF DRYWALL THAT WAS REMOVED AND/OR DAMAGED.
- ROUTING OF EXISTING DUCTWORK IS APPROXIMATE. CONTRACTOR TO VERIFY ALL LOCATIONS AND SIZES ON SITE PRIOR TO DEMOLITION.
- ALL EXHAUST GRILLES SERVING THE AREAS OF WORK ON THE GROUND FLOOR ARE TO BE REMOVED.
- COORDINATE REMOVAL OF DUCTWORK WITH EXISTING SERVICES IN THE CEILING SPACE. TEMPORARILY REMOVE, RELOCATE, AND/OR REINSTALL AS NECESSARY TO REMOVE THE DUCTWORK. THIS INCLUDES EXISTING PIPING, CONDUITS, DATA CABLEING, ETC.
- TEMPORARILY REMOVE THE EXISTING T-BAR CEILING AND LIGHTS AS REQUIRED TO PERFORM ALL THE DEMOLITION WORK.
- PATCH AND REPAIR TO MATCH EXISTING ALL THE OPENINGS THROUGH THE EXISTING EXTERIOR WALLS AND ROOF THAT ARE REDUNDANT AS A RESULT OF THE WORK.
- FOR ALL REMOVED EQUIPMENT, DISCONNECT ALL POWER AND CONTROLS WIRING AND CONDUIT, ALL ASSOCIATED BREAKERS, DISCONNECTS AND FUSES; MAKE SAFE ALL WIRING.
- REMOVE ANY FIRE DAMPERS FROM EXISTING EXHAUST DUCTWORK. NOT ALL FIRE DAMPERS HAVE BEEN SHOWN ON THE LAYOUT DRAWING. CONTRACTOR TO VERIFY ON SITE.

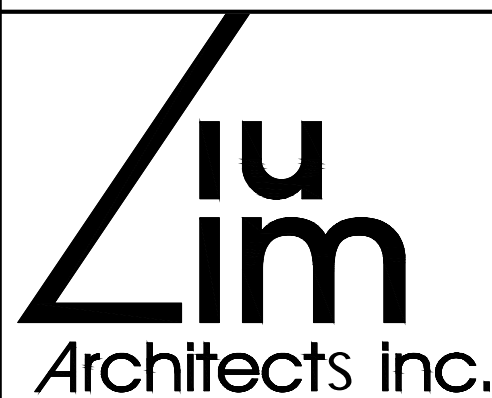


PART OF GROUND FLOOR (NORTH) - EQUIPMENT, DUCTWORK & PIPING LAYOUT - EXISTING & DEMOLITION WORK - MECHANICAL
SCALE: 1:100

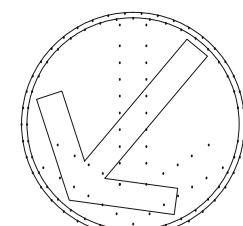
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△	5	REVISED FOR PERMIT	2022/08/18	



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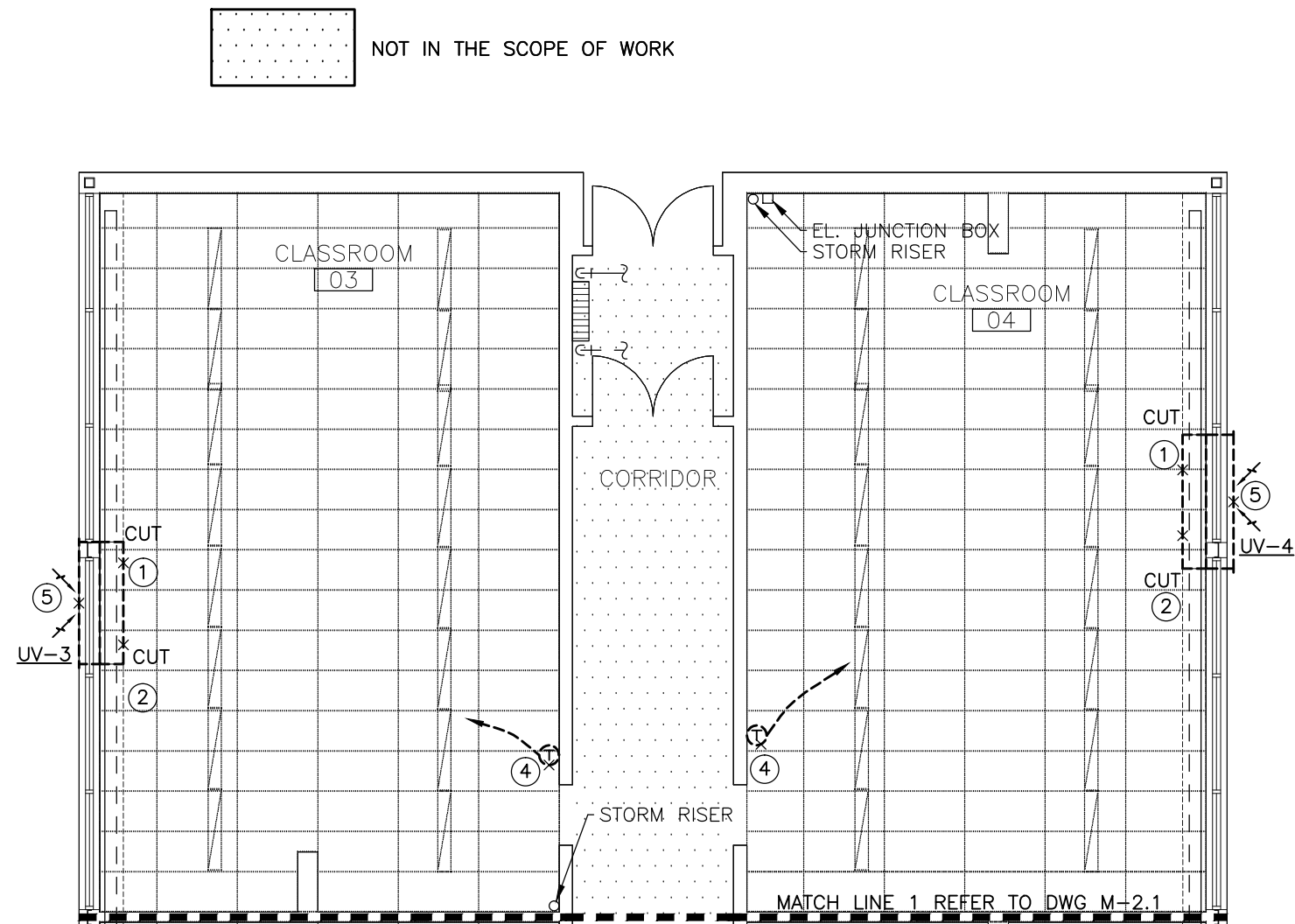
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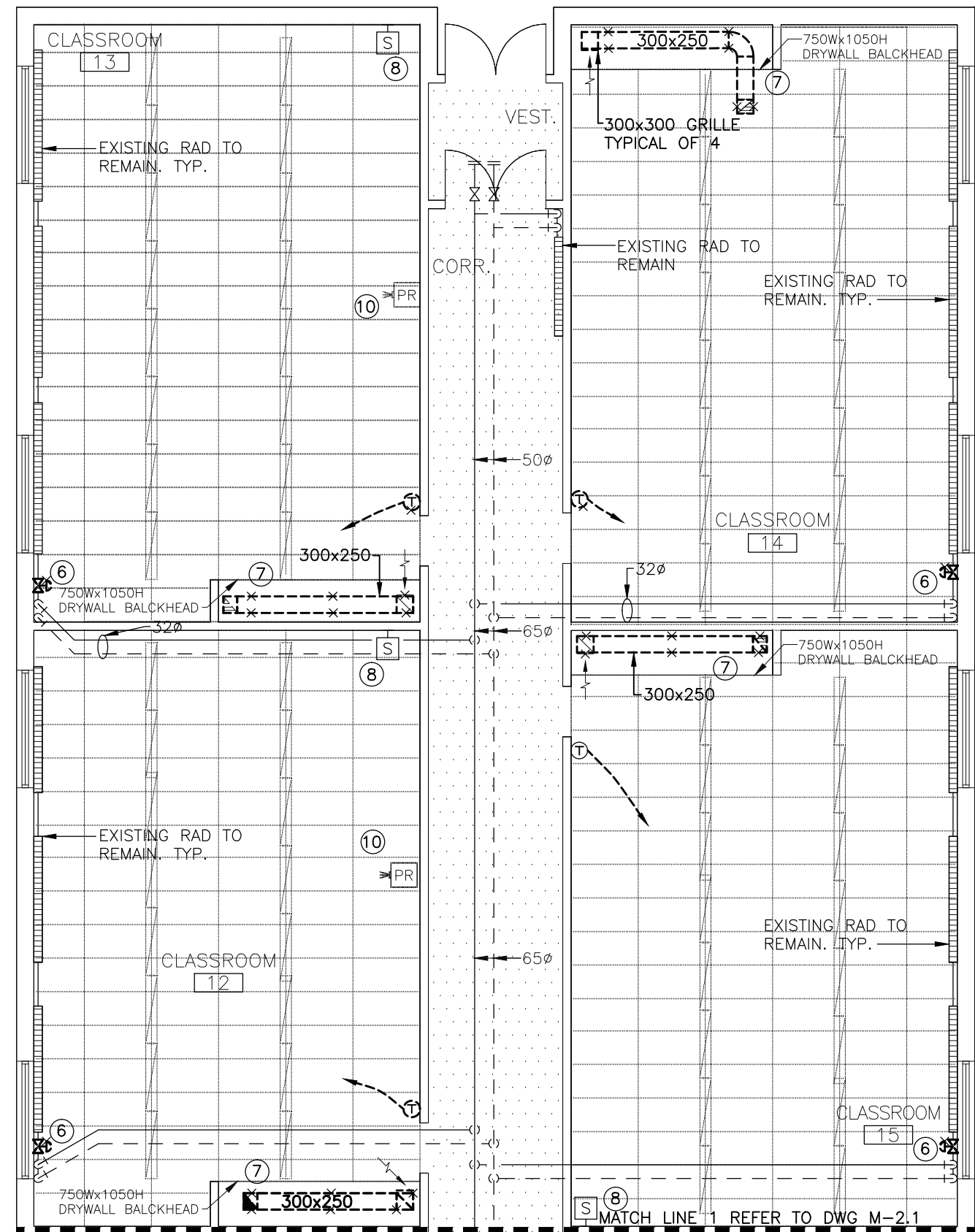
Consultant:
SAB
ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905) 787 8885 FAX (905) 787 8771

Title:
PART OF GROUND FLOOR (NORTH) -
EXISTING & DEMOLITION WORK -
MECHANICAL

Drawn by: P.C.	Date: DECEMBER 2021
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-01	Drawing No.: M-2.1
Set No.:	of: 10



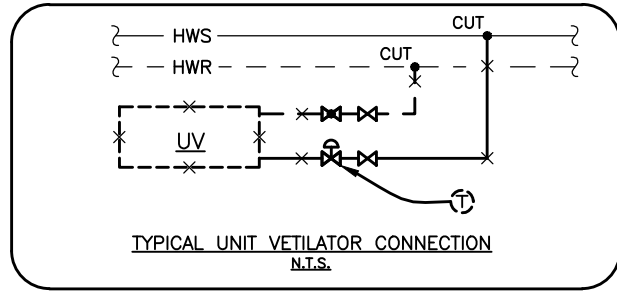
PART OF GROUND FLOOR PLAN (SOUTH-EAST) - EQUIPMENT LAYOUT
- EXISTING & DEMOLITION WORK - MECHANICAL
SCALE: 1:100



PART OF GROUND FLOOR PLAN (SOUTH-WEST) - EQUIPMENT LAYOUT
- EXISTING & DEMOLITION WORK - MECHANICAL
SCALE: 1:100

KEY NOTES

- 1 REMOVE EXISTING UNIT VENTILATOR. CUT LOCALLY AND DISCONNECT FROM EXISTING HWS & HWR PIPING C/W ALL ACCESSORIES. DISCONNECT FROM POWER AND CONTROLS AND REMOVE ALL REDUNDANT WIRING.
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DEMOLITION NOTES:

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ROUTING OF EXISTING DUCTWORK IS APPROXIMATE. CONTRACTOR TO VERIFY ALL LOCATIONS AND SIZES ON SITE PRIOR TO DEMOLITION.

ALL EXHAUST GRILLES SERVING THE AREAS OF WORK ON THE GROUND FLOOR ARE TO BE REMOVED.

COORDINATE REMOVAL OF DUCTWORK WITH EXISTING SERVICES IN THE CEILING SPACE. TEMPORARILY REMOVE, RELOCATE, AND/OR REINSTALL AS NECESSARY TO REMOVE THE DUCTWORK. THIS INCLUDES EXISTING PIPING, CONDUITS, DATA CABLING, ETC.

TEMPORARY REMOVE THE EXISTING T-BAR CEILING AND LIGHTS AS REQUIRED TO PERFORM ALL THE DEMOLITION WORK.

PATCH AND REPAIR TO MATCH EXISTING ALL THE OPENINGS THROUGH THE EXISTING EXTERIOR WALLS AND ROOF THAT ARE REDUNDANT AS A RESULT OF THE WORK.

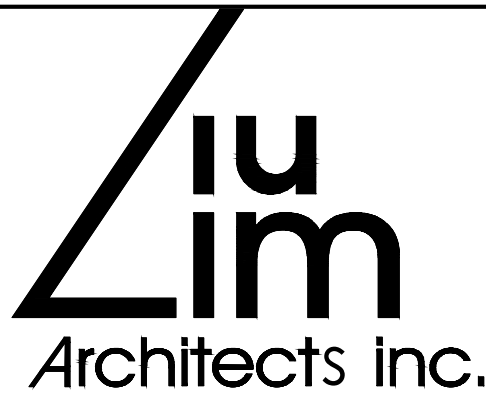
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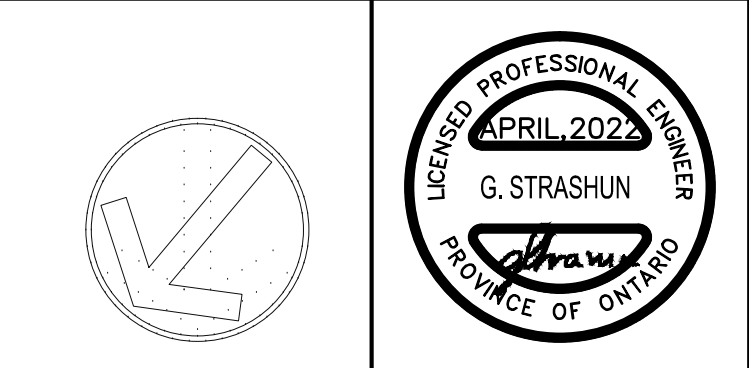
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△	4	ISSUED FOR TENDER	2022/04/26	



Project:
GLADYS SPEERS PS
RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6



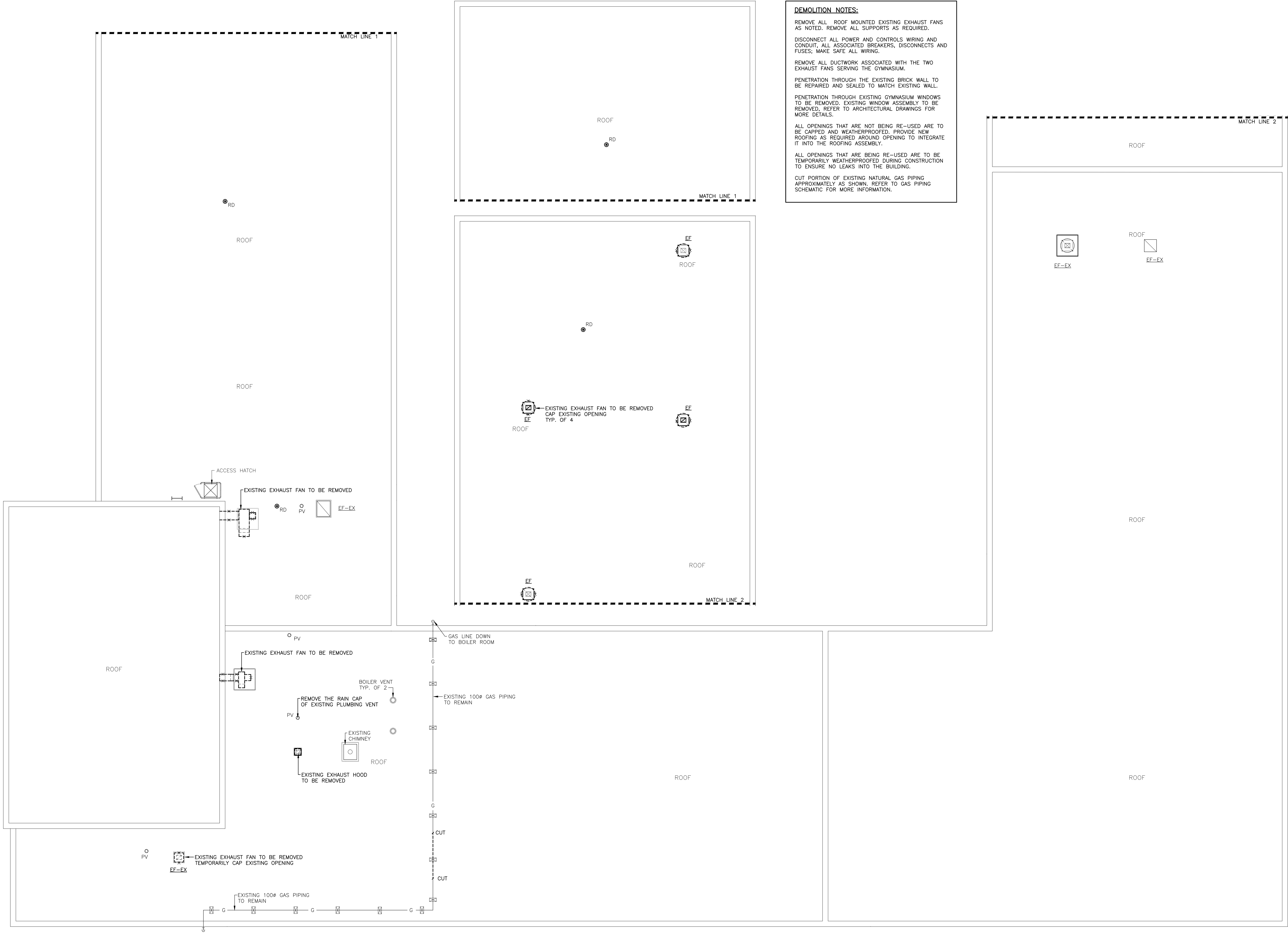
Unit 100 - 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



Consultant:
SAB
ENGINEERING Inc.
588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:
PART OF GROUND FLOOR (SOUTH)
- EXISTING & DEMOLITION WORK
- MECHANICAL

Drawn by: P.C.	Date: DECEMBER 2021
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-01	Drawing No.:
Set No.:	M-2.2



ROOF PLAN — EQUIPMENT LAYOUT — EXISTING & DEMOLITION WORK — MECHANICAL
SCALE: 1:100

DEMOLITION NOTES:

REMOVE ALL ROOF MOUNTED EXISTING EXHAUST FANS AS NOTED. REMOVE ALL SUPPORTS AS REQUIRED.

DISCONNECT ALL POWER AND CONTROLS WIRING AND CONDUIT, ALL ASSOCIATED BREAKERS, DISCONNECTS AND FUSES; MAKE SAFE ALL WIRING.

REMOVE ALL DUCTWORK ASSOCIATED WITH THE TWO EXHAUST FANS SERVING THE GYMNASIUM.

PENETRATION THROUGH THE EXISTING BRICK WALL TO BE REPAIRED AND SEALED TO MATCH EXISTING WALL.

PENETRATION THROUGH EXISTING GYMNASIUM WINDOWS TO BE REMOVED. EXISTING WINDOW ASSEMBLY TO BE REMOVED, REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILS.

ALL OPENINGS THAT ARE NOT BEING RE-USED ARE TO BE CARPED AND WEATHERPROOFED. PROVIDE NEW ROOFING AS REQUIRED AROUND OPENING TO INTEGRATE IT INTO THE ROOFING ASSEMBLY.

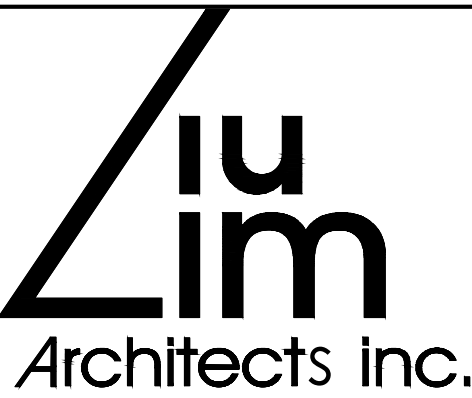
ALL OPENINGS THAT ARE BEING RE-USED ARE TO BE TEMPORARILY WEATHERPROOFED DURING CONSTRUCTION TO ENSURE NO LEAKS INTO THE BUILDING.

CUT PORTION OF EXISTING NATURAL GAS PIPING APPROXIMATELY AS SHOWN. REFER TO GAS PIPING SCHEMATIC FOR MORE INFORMATION.

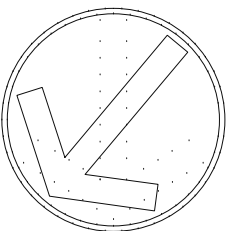
Revisions				
Ref.	No.	Description	Date	Initial
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△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
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Project:
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RENOVATIONS
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ON L6L 2P6



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588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:
ROOF — EQUIPMENT & GAS PIPING
LAYOUT — EXISTING & DEMOLITION
WORK — MECHANICAL

Drawn by: P.C.	Date: DECEMBER 2021
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022-01	Drawing No.: M-2.3
Set No.:	



MATCH LINE 1 REFER TO DWG M-2.2

KEY NOTES

- ① INSTALL NEW 3"-ROW BARE ELEMENT WALL FIN RADIATOR AS PER THE MECHANICAL EQUIPMENT SCHEDULE. CONNECT NEW WALLFIN TO EXISTING HWS & HW/R MAINS RUNNING ALONG EXTERIOR WALL. REFER TO DETAIL ON M-1 FOR PIPING CONNECTION DETAIL.
- ② INSTALL NEW 1"-ROW BARE ELEMENT WALL FIN RADIATOR AS PER THE MECHANICAL EQUIPMENT SCHEDULE. CONNECT TO EXISTING TUBING FROM THE EXISTING WALL FIN RADIATORS IN THE SAME SPACE. REFER TO M-1 FOR PIPING CONNECTION DETAIL.
- ③ PROVIDE AND INSTALL NEW PENCIL-PROOF LINEAR BAR GRILLE FOR NEW WALL FIN RADIATORS (E.H. PRICE MODEL LBP ½" BLADE SPRING) EXACT LENGTH TO CONFIRMED ON SITE, WIDTH TO MATCH EXISTING. COORDINATE INSTALLATION WITH NEW MILLWORK, REFER TO ARCHITECTURAL DRAWINGS FOR MORE DETAILS.
- ④ INSTALL NEW CONTROL VALVE APPROXIMATELY AS SHOWN. PROVIDE ALL NEW CONTROL WIRING AND CONNECT TO THE ASSOCIATED NEW THERMOSTAT.
- ⑤ INSTALL NEW THERMOSTAT ON THE WALL APPROXIMATELY AS SHOWN.
- ⑥ INSTALL NEW VAV BOX. PROVIDE ALL NEW CONTROL WIRING AND CONNECT TO THE ASSOCIATED NEW THERMOSTAT.
- ⑦ CONNECT NEW 32" CONDENSATE DRAIN TO EXISTING SINK. REFER TO DETAIL ON M-1.
- ⑧ INSTALL NEW WALL-MOUNTED CAJ EVAPORATOR IN THE STAFF ROOM. FINAL LOCATION TO BE DETERMINED ON SITE. PROVIDE ADEQUATE SUPPORT. RUN NEW REFRIGERANT PIPING ABOVE T-BAR AND UP ALONG EXTERIOR WALL.
- ⑨ PROVIDE WALL OPENING ABOVE THE CEILING.
- ⑩ TERMINATED OPEN ENDED IN CEILING SPACE

NEW WORK NOTES:

PROVIDE FIRE DAMPERS AT ALL PENETRATIONS THROUGH FIRE-RATED WALLS, C/W ACCESS DOOR. NOT ALL REQUIRED FIRE DAMPERS MAY BE SHOWN ON THE LAYOUT DRAWING.

PROVIDE ALL HANGERS AND SUPPORTS FOR THE NEW EQUIPMENT, DUCTWORK AND PIPING.

PROVIDE NEW SUPPLY AND RETURN DUCTWORK THROUGHOUT THE SCHOOL APPROXIMATELY AS SHOWN. COORDINATE INSTALLATION OF ALL DUCTWORK WITH THE STRUCTURAL ELEMENTS

ALL NEW SUPPLY AIR DUCTWORK IS TO BE INSTALLED EXPOSED BELOW THE T-BAR CEILING, EXCEPT FOR TAKE-OFF BRANCHES IN ROOMS 12, 13, 14, & 15. INSTALL ALL DUCTWORK AS HIGH AS POSSIBLE. INSTALL DUCTS BETWEEN AND THROUGH OWSJ TO CONSERVE HEADROOM, WHERE POSSIBLE.

DUCTWORK ROUTING IS APPROXIMATE. CONTRACTOR TO MODIFY ROUTING BASED ON EXISTING CONDITIONS AS REQUIRED TO COMPLETE THE INSTALLATION. ALLOW FOR ADDITIONAL OFFSETS, ELBOWS, TRANSITIONS, AS REQUIRED TO COMPLETE THE INSTALLATION.

COORDINATE INSTALLATION OF THE DUCTWORK IN THE SCHOOL WITH EXISTING PIPING AND ELECTRICAL CONDUITS, LIGHTS HANGERS AND OTHER SERVICES. CONTRACTOR TO ALLOW FOR RELOCATION OF EXISTING ELECTRICAL CONDUITS IN ORDER TO COMPLETE THE INSTALLATION.

COORDINATE LOCATION OF GRILLES AND DIFFUSERS WITH THE EXISTING CEILING, LIGHTS AND STRUCTURAL ELEMENTS. MODIFY T-BAR CEILING AS REQUIRED TO INSTALL NEW GRILLES.

PROVIDE NEW VAV BOXES IN THE CLASSROOMS AS SHOWN ON THE DRAWINGS AND AS NOTED IN THE MECHANICAL EQUIPMENT SCHEDULE. PROVIDE ADEQUATE SUPPORT FOR ALL NEW VAV BOXES. INSTALL NEW SOUND ATTENUATOR DOWNSTREAM OF EACH NEW BOX. CONNECT EACH NEW VAV BOX TO SUPPLY AIR DUCTWORK AS SHOWN. REFER TO ARCHITECTURAL DRAWINGS FOR VAV BOX ENCLOSURE.

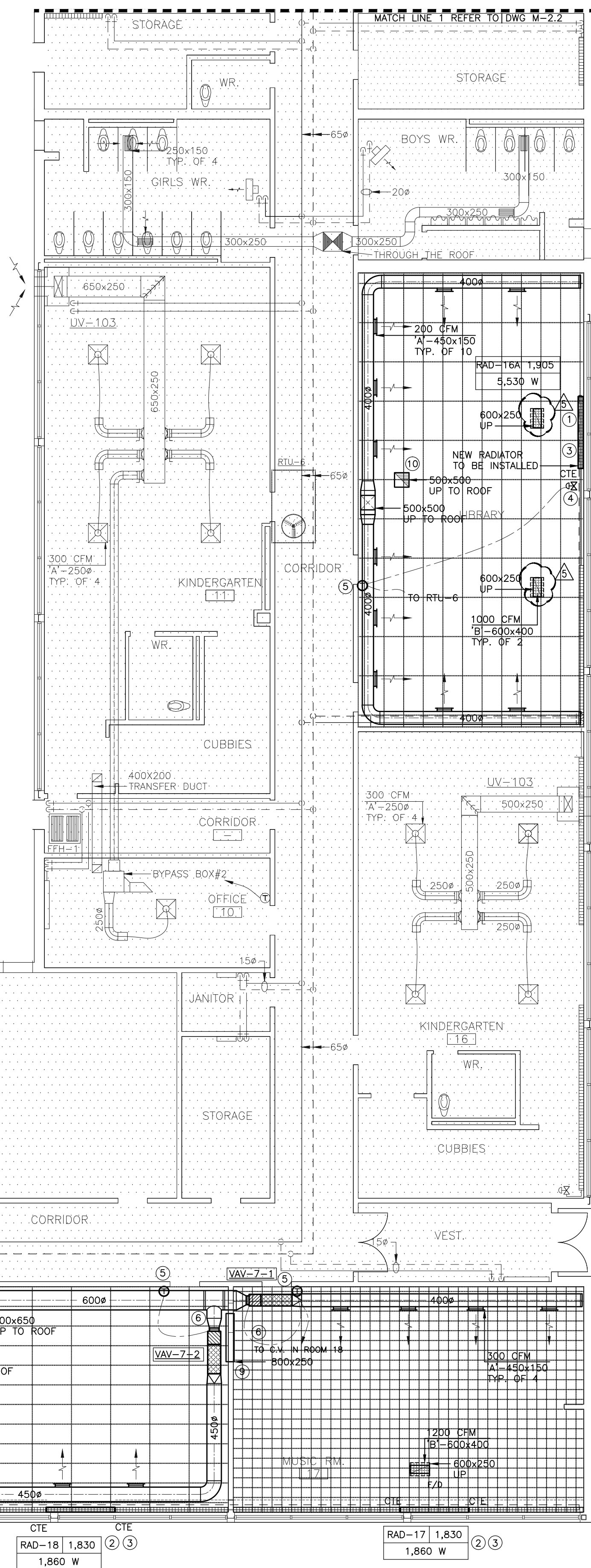
BALANCE AIR FLOWS FOR ALL SUPPLY AND RETURN DUCTWORK, VAV BOXES, GRILLES, AND DIFFUSERS. ADDITIONALLY, USE BALANCING DAMPERS TO ACHIEVE SPECIFIED AIR FLOWS AS SHOWN ON DRAWINGS.

CONTRACTOR TO ALLOW FOR THE COMPLETE REMOVAL OF THE T-BAR CEILING THROUGHOUT THE AREAS OF WORK. THIS INCLUDES THE REMOVAL OF EXISTING SERVICES INSTALLED IN THE T-BAR INCLUDING BUT NOT LIMITED TO: LIGHTS, SMOKE SENSORS, DATA DEVICES, ETC.

RE-INSTALL T-BAR CEILING AT THE COMPLETION OF THE NEW WORK INSTALLATION. REPLACE ALL DAMAGED CEILING TILES. RE-INSTALL ALL EXISTING SERVICES THAT WERE REMOVED AS PART OF THE T-BAR REMOVAL. RE-VERIFY ANY FIRE ALARM DEVICES THAT ARE RE-INSTALLED.

CONNECT ALL NEW ROOFTOP UNITS TO THE BUILDING'S EXISTING FIRE ALARM AND BAS.


IN AREAS OF STRUCTURAL REINFORCEMENT (REFER TO STRUCTURAL DRAWINGS), REMOVE CEILING, LIGHTS, ALL DEVICES ASSOCIATED WITH THE CEILING; TEMPORARY REMOVE ALL CONDUITS, WIRING AND OTHER SERVICES AS REQUIRED TO PERFORM THE STRUCTURAL WORK.



A red rectangular stamp with the word "RECEIVED" in large, bold, red capital letters at the top. Below it, in smaller red capital letters, are the words "BUILDING SERVICES". Further down, in black capital letters, is "PERMIT NO: 22-111973 SA". Below that, in red capital letters, is "DATE: 08/18/2022". At the bottom, in black capital letters, is "TOWN OF OAKVILLE". To the left of the text "TOWN OF OAKVILLE" is the Oakville logo, which consists of a stylized leaf or drop shape with a small figure inside, and the word "OAKVILLE" in black capital letters below it.

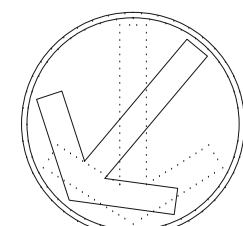
Project:

GLADYS SPEERS PS
RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6




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Unit 100 – 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010



Consultant:	
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SAB
ENGINEERING Inc.

588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771

Title:

PART OF GROUND FLOOR (NORTH)
- EXISTING & NEW WORK
- MECHANICAL

Drawn by:
P.C.

Date: DECEMBER 2021

Checked by:
O.S.

Plotted:

Scale:
AS SHOWN

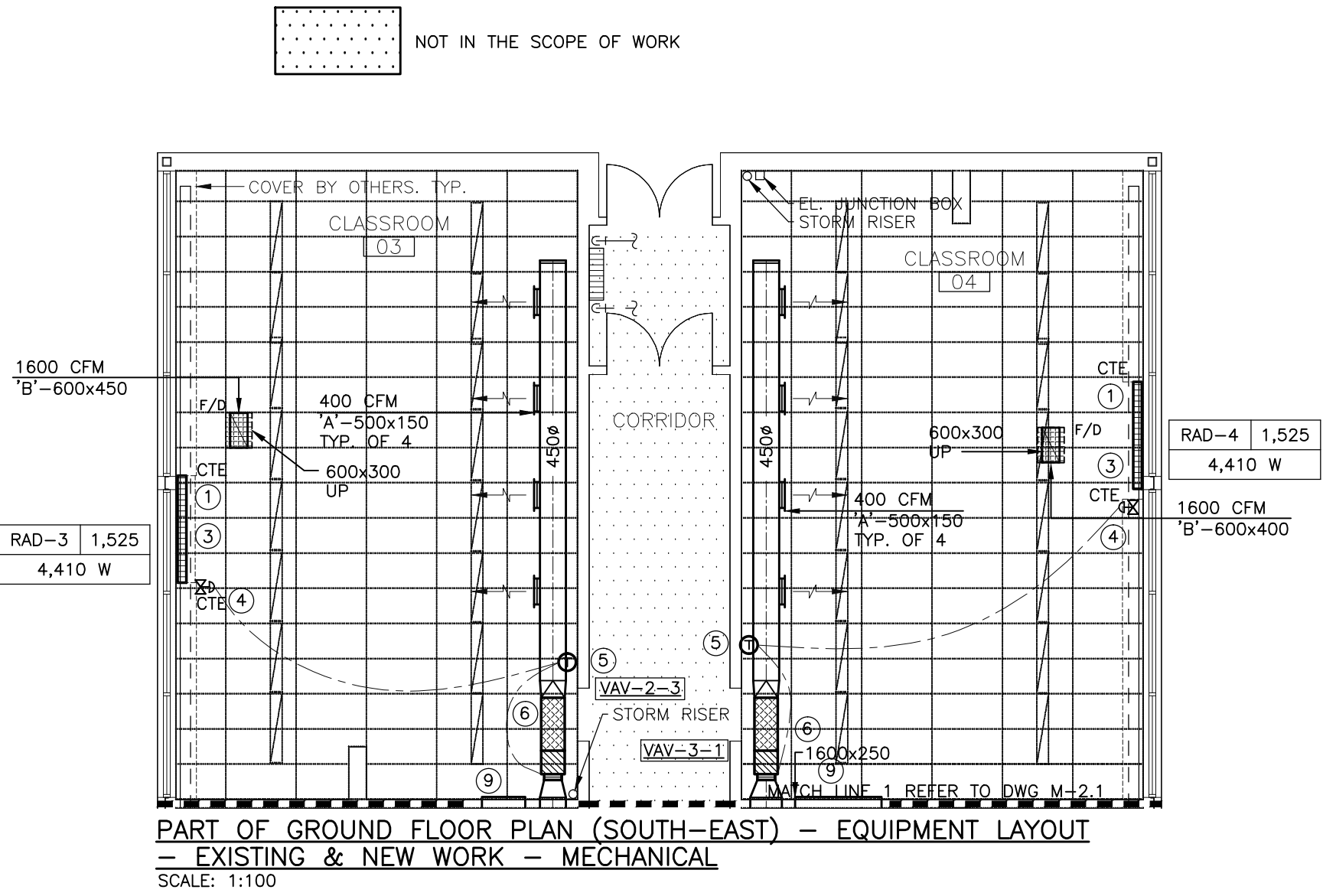
Issued:

Job No.:	2022-01
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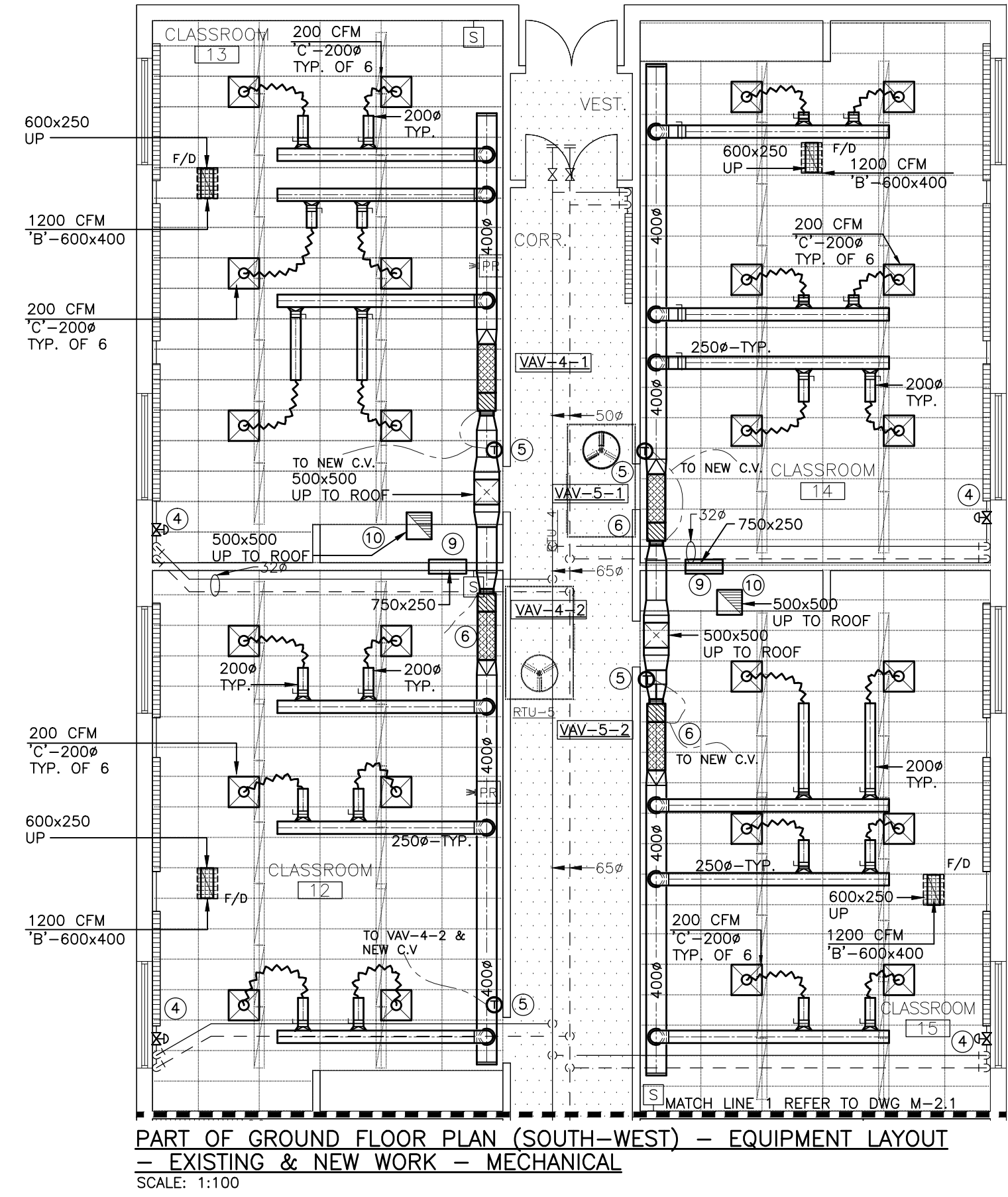
Drawing No.:

Set No.:

M-3.1



- KEY NOTES**
1. INSTALL NEW 3-ROW BARE ELEMENT WALL FIN RADIATOR AS PER THE MECHANICAL EQUIPMENT SCHEDULE. CONNECT NEW WALLFIN TO EXISTING HWS & HWR MAINS RUNNING ALONG EXTERIOR WALL. REFER TO DETAIL ON M-1 FOR PIPING CONNECTION DETAIL.
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 7. CONNECT NEW 32# CONDENSATE DRAIN TO EXISTING SINK. REFER TO DETAIL ON M-1.
 8. INSTALL NEW WALL-MOUNTED AC EVAPORATOR IN THE STAFF ROOM. FINAL LOCATION TO BE DETERMINED ON SITE. PROVIDE ADEQUATE SUPPORT. RUN NEW REFRIGERANT PIPING ABOVE T-BAR AND UP ALONG EXTERIOR WALL.
 9. PROVIDE WALL OPENING ABOVE THE CEILING.
 10. TERMINATED OPEN ENDED IN CEILING SPACE



- NEW WORK NOTES:**
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Revisions				
Ref.	No.	Description	Date	Initial
△	1	50% REVIEW	2022/02/17	
△	2	75% REVIEW	2022/03/09	
△	3	100% REVIEW	2022/03/31	
△	4	ISSUED FOR TENDER	2022/04/26	

RECEIVED
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PERMIT NO: 22-111973
DATE: 05/26/2022
TOWN OF OAKVILLE

Project:
GLADYS SPEERS PS
RENOVATIONS
2150 SAMWAY RD, OAKVILLE,
ON L6L 2P6

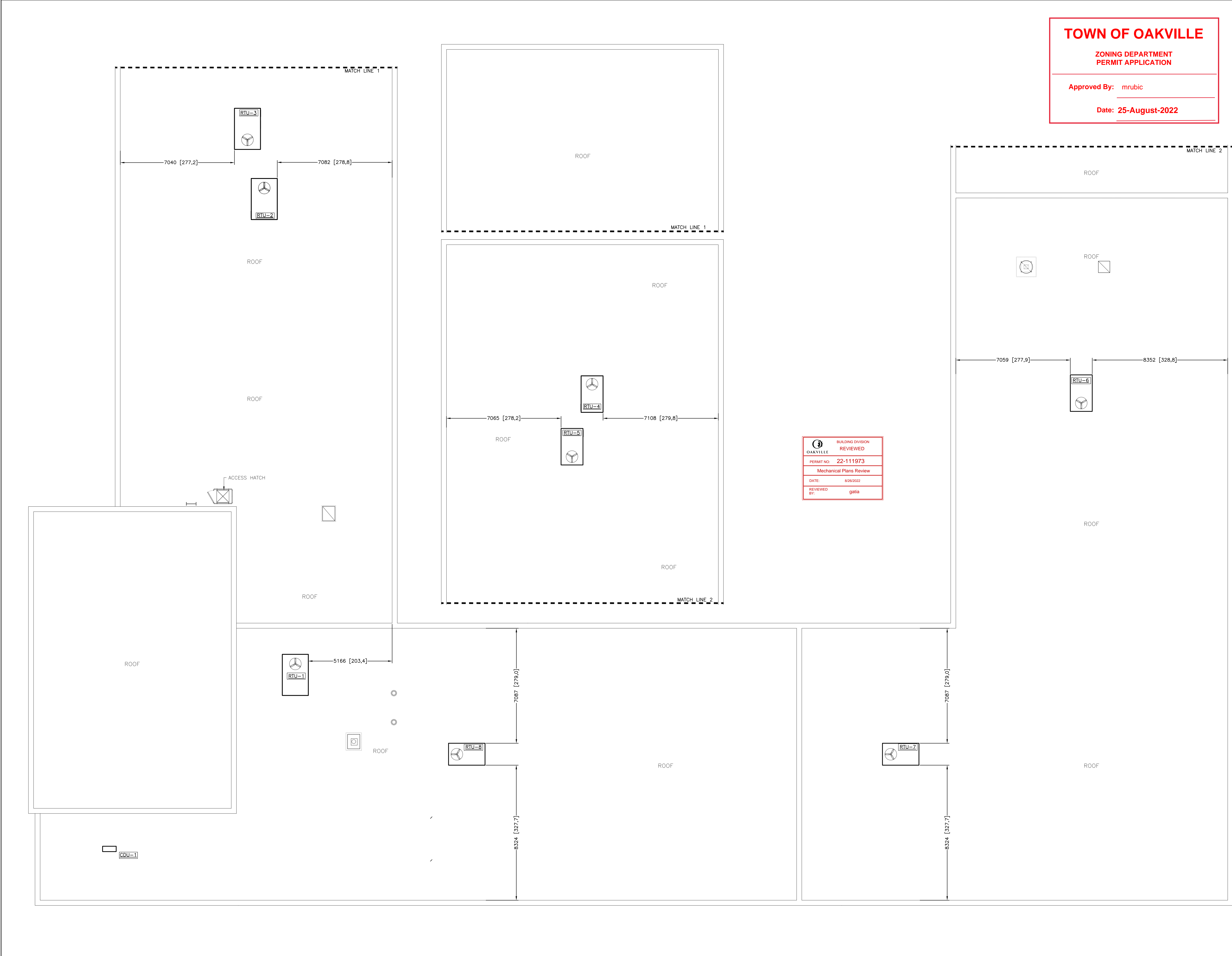
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Architects inc.

Unit 100 – 706 Euclid Avenue
Toronto, Ontario, Canada M6G 2T9
Tel:(416)591-6575 Fax:(416)591-1010

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ENGINEERING Inc.

588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
TEL. (905)-787 8885 FAX (905)-787 8771



TOWN OF OAKVILLE

ZONING DEPARTMENT
PERMIT APPLICATION

Approved By: mrubic

Date: 25-August-2022

BUILDING DIVISION
REVIEWED

PERMIT NO: 22-111973

Mechanical Plans Review

DATE: 8/26/2022

REVIEWED BY: galia

Revisions

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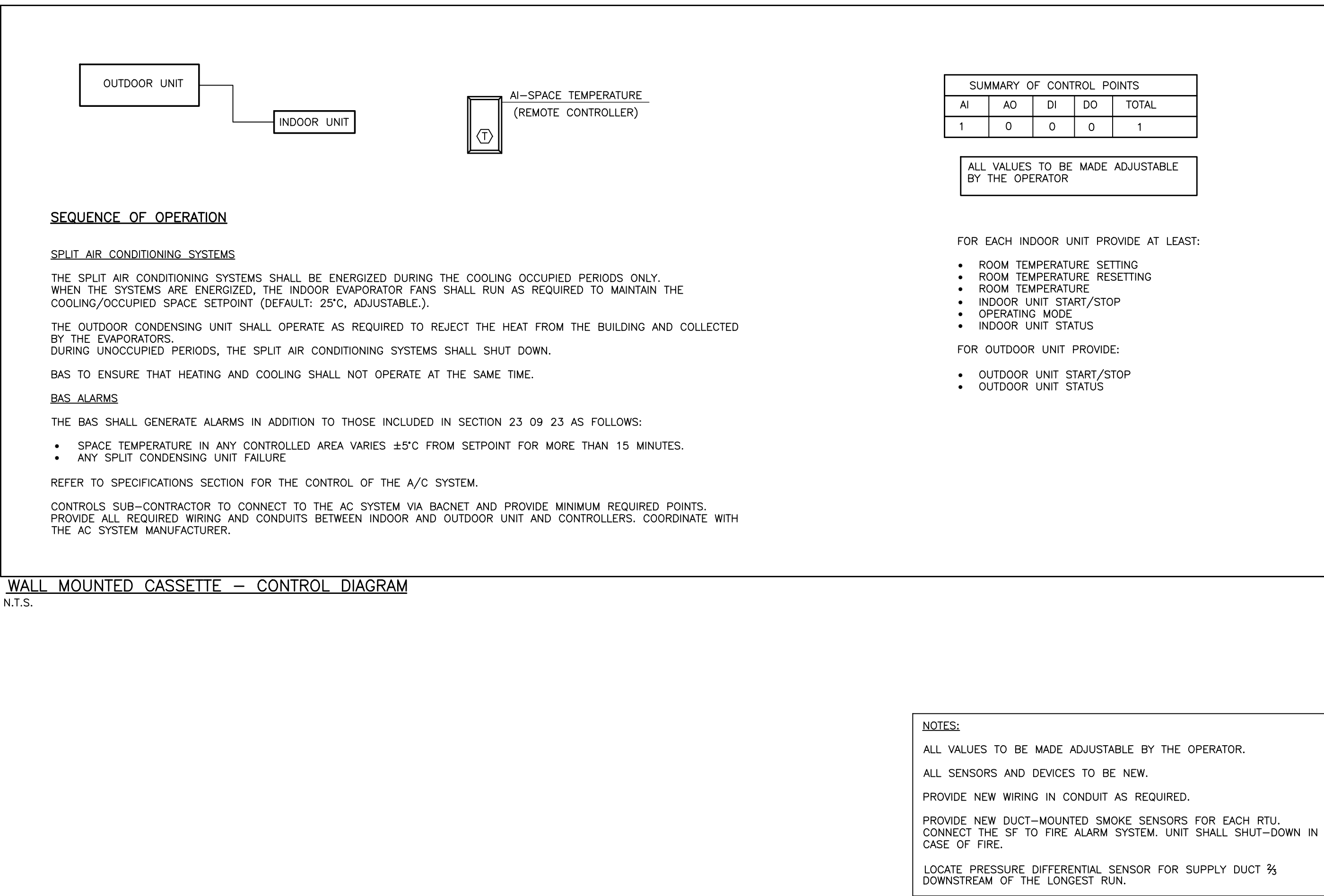
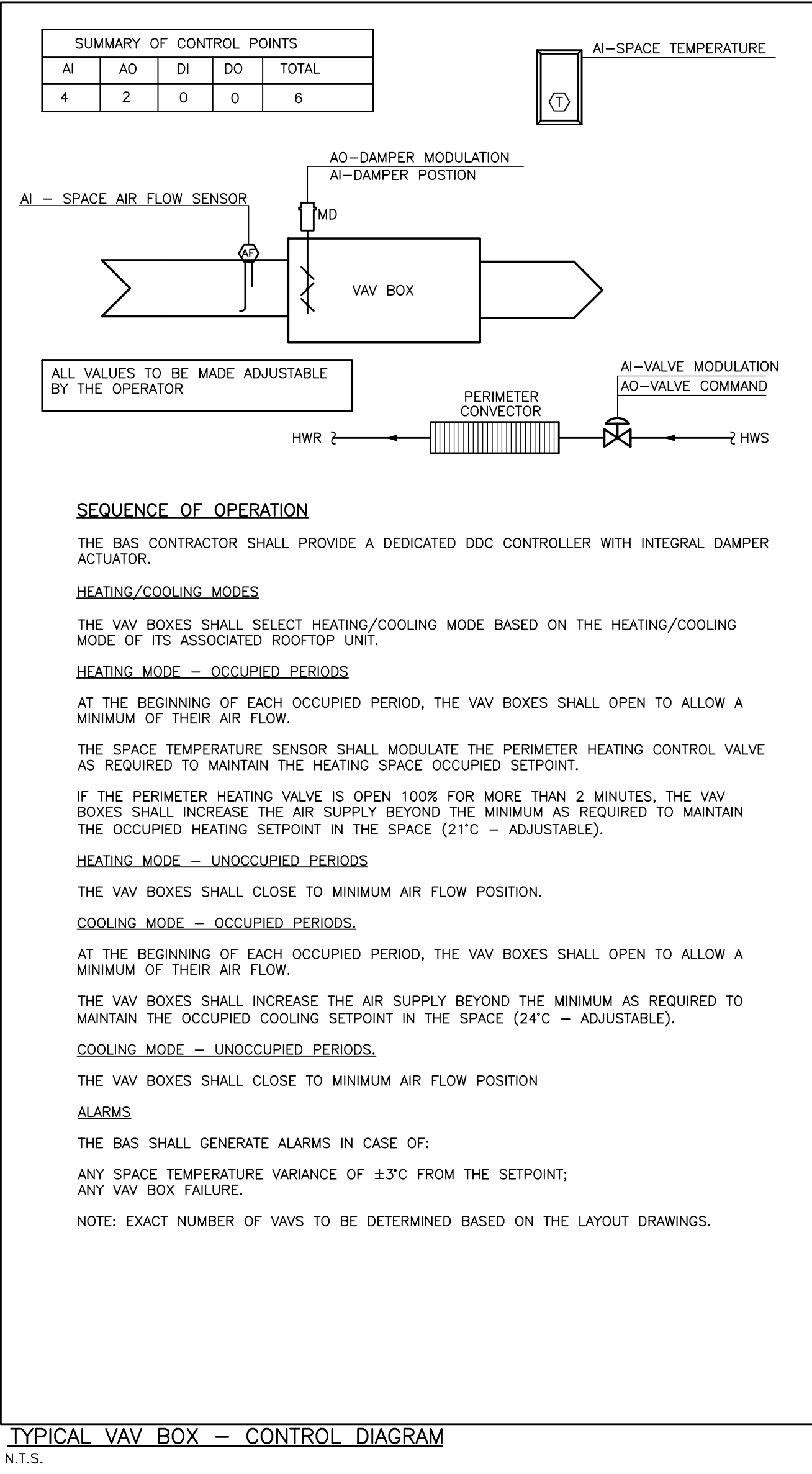
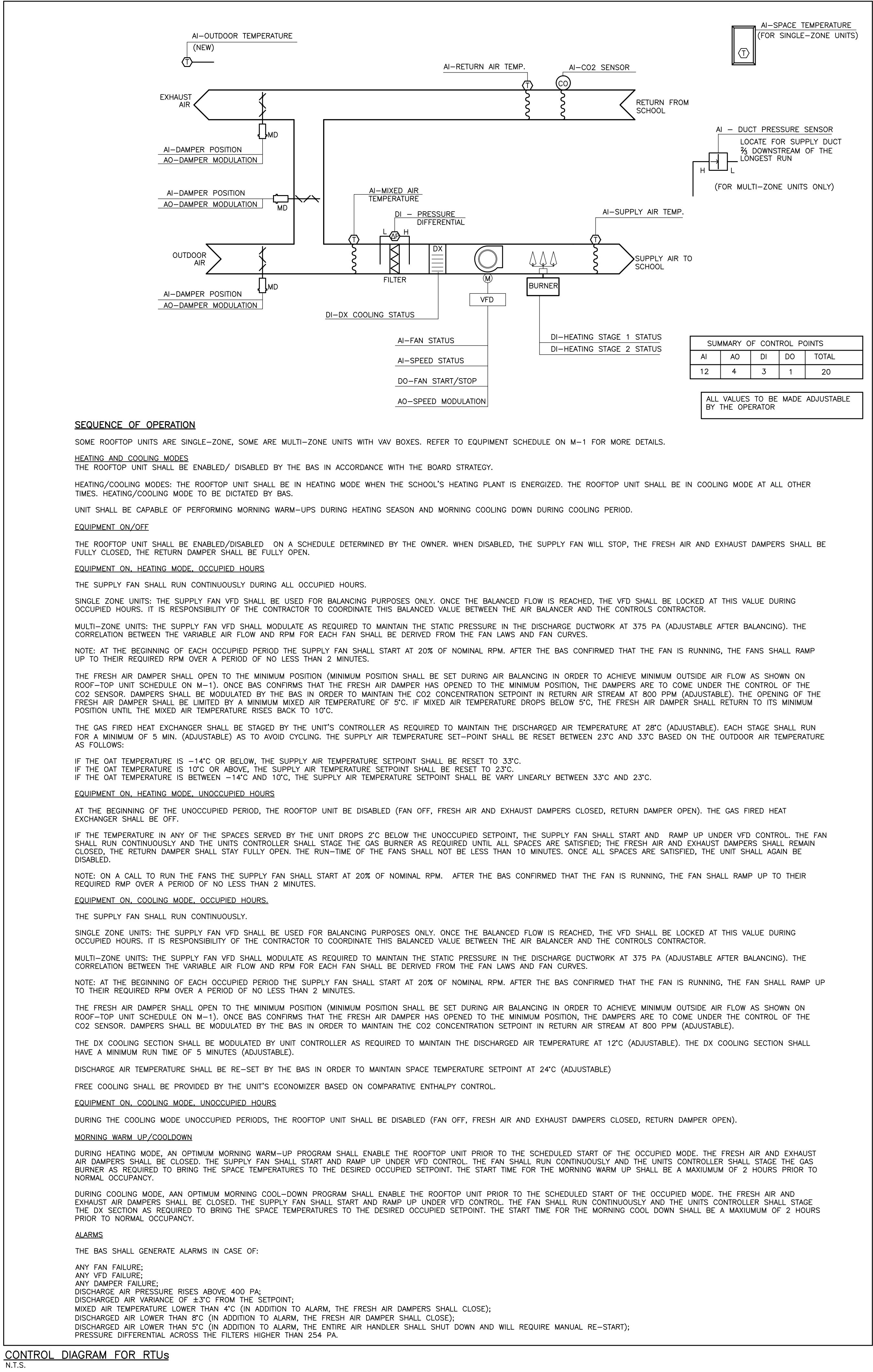
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TEL. (905)-787 8885 FAX (905)-787 8771

Title:
ROOF – EQUIPMENT LAYOUT – EXISTING &
NEW WORK – MECHANICAL

Drawn by: P.C.	Date: DECEMBER 2021
Checked by: O.S.	Plotted:
Scale: AS SHOWN	Issued:
Job No.: 2022–01	Drawing No.: M-3.4
Set No.:	of:



Revisions

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PERMIT NO: 22-111973
DATE: 05/26/2022
TOWN OF OAKVILLE

Project:

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ON L6L 2P6

luim Architects inc.

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TEL.(905)-787 8885 FAX (905)-787 8771

Title:

CONTROL SCHEMATICS
– MECHANICAL

Drawn by:
P.C.

Date:
DECEMBER 2021

Checked by:
O.S.

Plotted:

Scale:
AS SHOWN

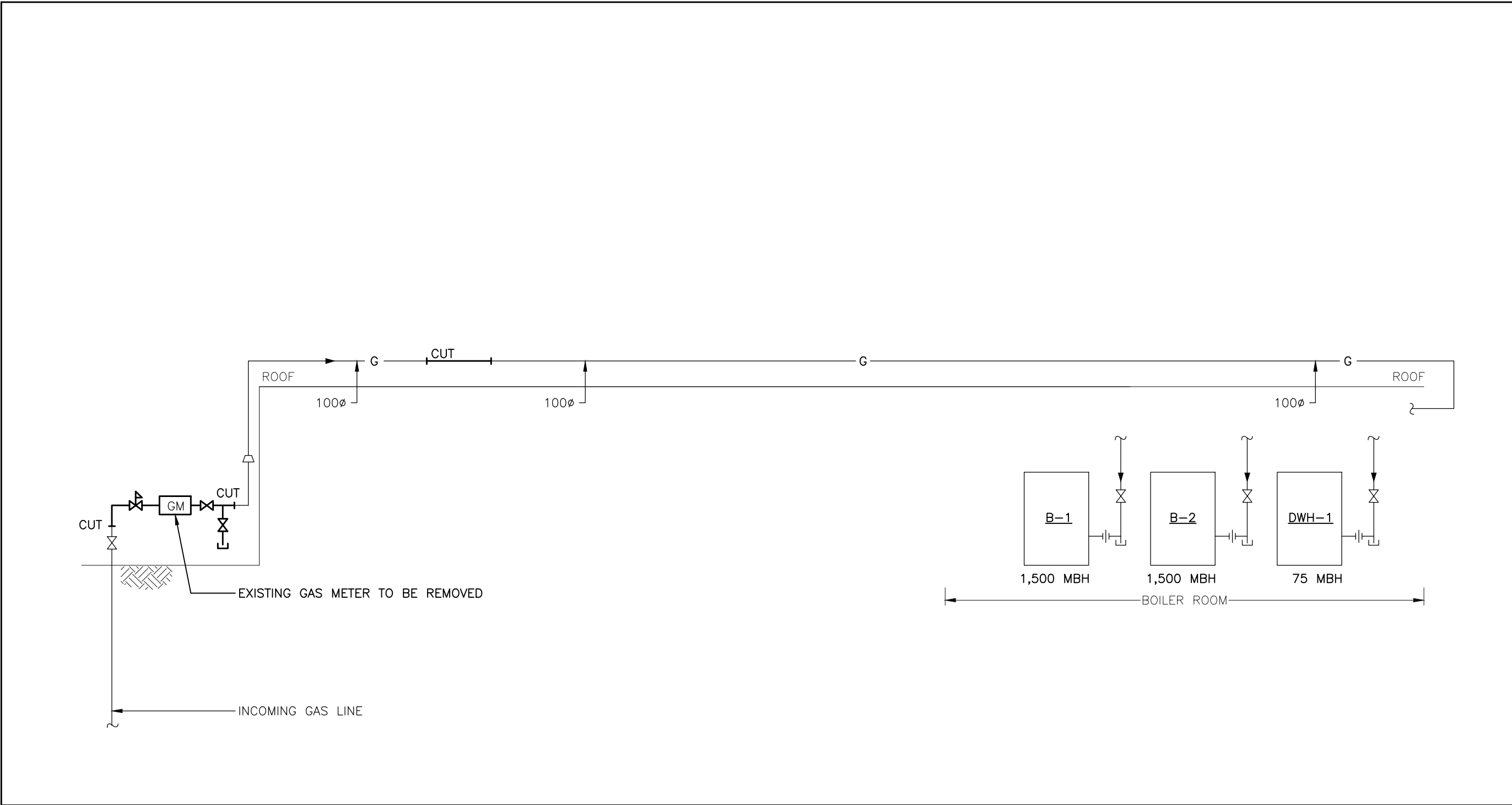
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Job No.:
2022-01

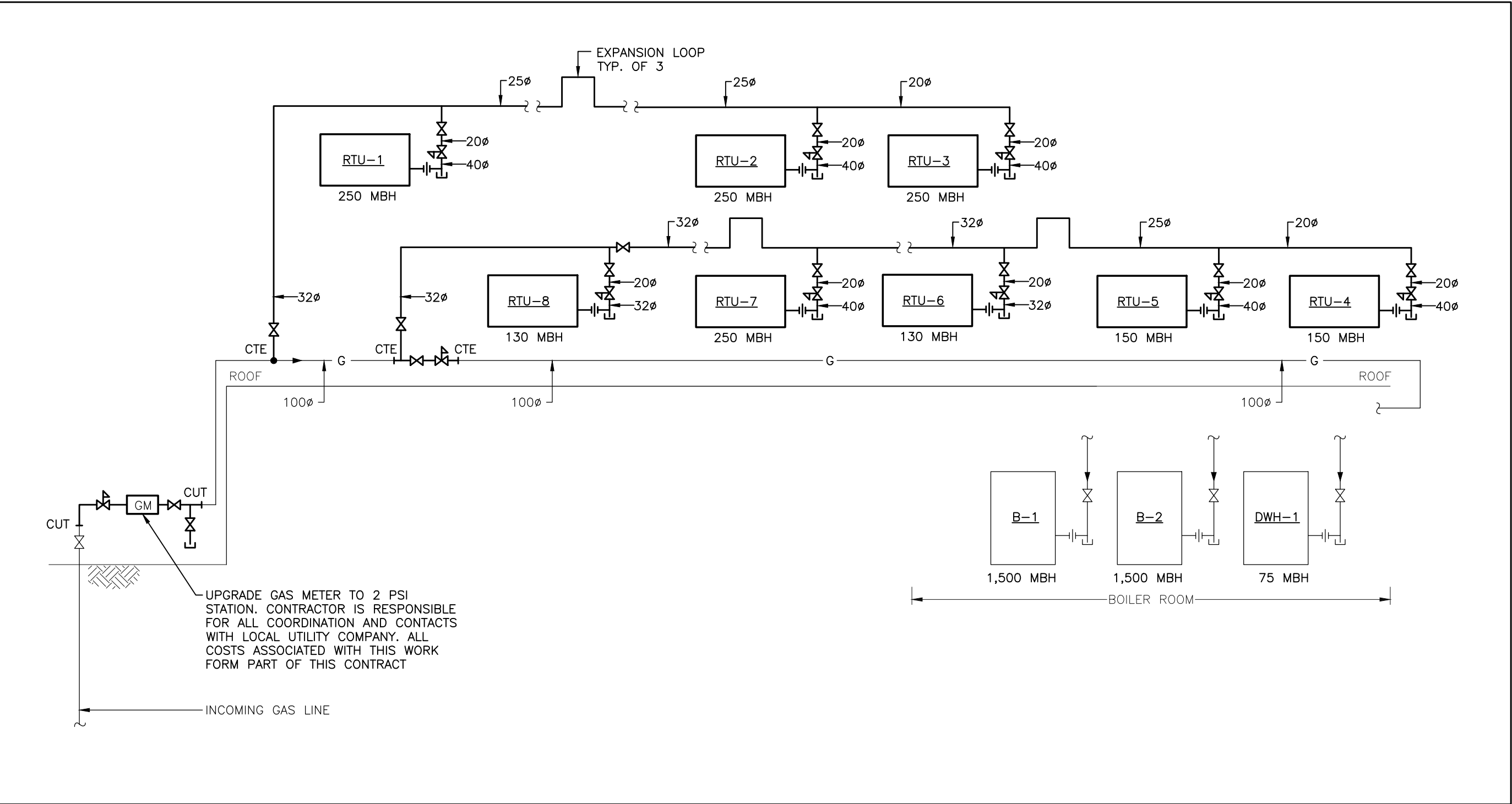
Drawing No.:
M-4.1

Set No.:

of: 8



GAS PIPING SCHEMATIC DIAGRAM - EXISTING & DEMOLITION WORK - MECHANICAL
N.T.S.



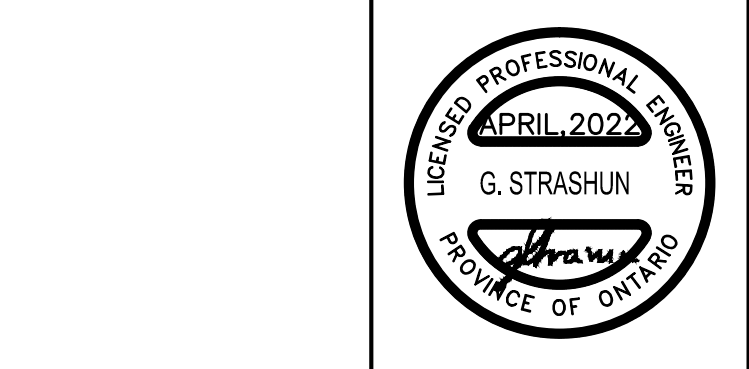
GAS PIPING SCHEMATIC DIAGRAM - NEW WORK - MECHANICAL
N.T.S.

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588 EDWARD AVE., UNIT 25, RICHMOND HILL, ONT., L4C 9Y6
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Title:

GAS PIPING SCHEMATIC
– EXISTING, DEMOLITION & NEW
WORK – MECHANICAL

Drawn by: P.C.	Date: DECEMBER 2021
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