

FIRM NAME:GRGURIC ARCHITECTS INCORPORATED

CERTIFICATE OF PRACTICE NUMBER: 4164

CONTACT: GRGURIC ARCHITECTS INCORPORATED

28 KING STREET EAST, UNIT B, STONEY CREEK, ONTARIO, L8G 1J8

NAME OF PROJECT: ST JOSEPH CATHOLIC ELEMENTARY SCHOOL RENOVATION

LOCATION: 3650 NETHERBY RD, STEVENSVILLE, ONTARIO, L0S 1S0

Item	Ontario's 2012 Building Code Data Matrix Parts 3 and Part 11	OBC Reference References are to Division B unless noted [A] for Division A or [C] for Division C																																																							
1	<div><div>Project Description: RENOVATIONS OF GYMNASIUM AREA TO CONVERT AN EXISTING CHANGE ROOM TO A KITCHEN (NO COOKING) AND TO REMOVE THE EX STAGE TO EXTEND THE EXISTING GYMNASIUM. WORK TO INCLUDE RAISING THE EXISTING EXIT DOOR TO THE GYMNASIUM FLOOR LEVEL AND INFILLING THE FLOOR. REPLACEMENT OF THE EXISTING WOOD DOORS WITH HOLLOW METAL DOORS. HVAC UPGRADES TO GYMNASIUM.</div><div><div><div><input type="checkbox"/> New</div><div><input type="checkbox"/> Addition</div><div><input checked="" type="checkbox"/> Alteration</div><div><input type="checkbox"/> Change of Use</div></div><div><div>Part 11</div></div></div><div><div>Part 3</div><div>Part 9</div></div></div>	1.1.2. [A]																																																							
2	Major Occupancy(s) Group A, Division 2 (Existing)	3.1.2.1.(1)																																																							
3	Building Area (m²) Existing 1,736.6m² New 0.0m² Total 1,736.6m²	1.4.1.2.[A]																																																							
4	Gross Area (m²) Existing 1,736.6m² New 0.0m² Total 1,736.6m² Area to be Renovated 278.5m² New 0.0m² Total 278.5m²	1.4.1.2.[A]																																																							
5	Number of storeys Above grade 1 Below grade 0	1.4.1.2.[A] & 3.2.1.1																																																							
7	Number of Streets/ Fire Fighter Access 1	3.2.2.10 & 3.2.5																																																							
8	Building Classification Existing - 11.3.3.1	3.2.2.20.-83																																																							
9	<div><div>Sprinkler System Proposed</div><div><div><input type="checkbox"/> entire building (existing)</div><div><input type="checkbox"/> selected compartments</div><div><input type="checkbox"/> selected floor areas EXISTING (area of alteration)</div><div><input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating</div><div><input type="checkbox"/> not required <input checked="" type="checkbox"/> not sprinkled</div></div></div> <div><div>3.2.2.20.-83</div><div>3.2.1.5.</div><div>3.2.2.17.</div><div>INDEX</div></div>																																																								
10	Standpipe required <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Existing)	3.2.9																																																							
11	Fire Alarm required <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Existing)	3.2.4																																																							
12	Water Service/Supply is Adequate <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Existing)	3.2.5.7.																																																							
13	High Building <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.2.6																																																							
14	<div><div>Permitted Construction <input type="checkbox"/> Combustible permitted <input type="checkbox"/> Non-combustible required <input checked="" type="checkbox"/> Both</div><div>Actual Construction <input type="checkbox"/> Combustible <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Both</div></div> <div><div>3.2.2.20.-83</div></div>																																																								
15	Mezzanine(s) Area m² N/A	3.2.1.1.(3)-(8)																																																							
16	<div><div>Occupant load based on <input checked="" type="checkbox"/> m²/person <input type="checkbox"/> design of building</div><div>Occupancy A-2 (GYM) Load 473 (0.4m²/person) persons</div></div> <div><div>3.1.17</div></div>																																																								
17	Barrier-free Design <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (Explain)	3.8																																																							
18	Hazardous Substances <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	3.3.1.2. & 3.3.1.19																																																							
19	<div><div>Required Fire Resistance Rating - See Note Below (FRR)</div><div><div>Horizontal Assemblies (Existing) FRR (Hours)</div><div>Listed Design No. or Description (SG-2)</div></div><div><div>Floors 0 Hours</div><div>N/A</div></div><div><div>Roof 0 Hours</div><div>EXISTING, NON COMBUSTIBLE</div></div><div><div>Mezzanine 0 Hours</div><div>N/A</div></div><div><div>FRR of Supporting Members</div><div>Listed Design No. or Description (SG-2)</div></div><div><div>Floors 0 Hours</div><div>N/A</div></div><div><div>Roof 0 Hours</div><div>EXISTING</div></div><div><div>Mezzanine 0 Hours</div><div>N/A</div></div></div> <div><div>3.2.2.20.-83 & 3.2.1.4</div></div>																																																								
19	<div><div>Spatial Separation - Construction of Exterior Walls</div><div>3.2.3</div></div> <table><tr><th>Wall</th><th>Area of EBF (m²)</th><th>L.D. (m)</th><th>L/H or H/L</th><th>Permitted Max. % of Openings</th><th>Proposed % of Openings</th><th>FRR (Hours)</th><th>Listed Design or Description</th><th>Comb. Constr.</th><th>Comb. Constr. Nonc. Cladding</th><th>Non-comb. Constr.</th></tr><tr><td>North</td><td>N/A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>South</td><td>N/A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>East</td><td>N/A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr><tr><td>West</td><td>N/A</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td></tr></table>	Wall	Area of EBF (m²)	L.D. (m)	L/H or H/L	Permitted Max. % of Openings	Proposed % of Openings	FRR (Hours)	Listed Design or Description	Comb. Constr.	Comb. Constr. Nonc. Cladding	Non-comb. Constr.	North	N/A	-	-	-	-	-	-	-	-	-	South	N/A	-	-	-	-	-	-	-	-	-	East	N/A	-	-	-	-	-	-	-	-	-	West	N/A	-	-	-	-	-	-	-	-	-	
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North	N/A	-	-	-	-	-	-	-	-	-																																															
South	N/A	-	-	-	-	-	-	-	-	-																																															
East	N/A	-	-	-	-	-	-	-	-	-																																															
West	N/A	-	-	-	-	-	-	-	-	-																																															
20	Sanitary Facility Summary - Elementary School										3.7.4.3.(14)																																														

Ontario Building Code Data Matrix Part 11 -- Renovation of Existing Building							Building Code Reference
11.2.	Existing Building classification:	Describe Existing Use: Construction Index: Hazard Index: <input checked="" type="checkbox"/> Not Applicable (no major change of occupancy)	Group A-2 Elementary School CI-6 HI-6	11.2.1 T 11.2.1.1A T 11.2.1.1B to N			
11.3.	Alteration to Existing Building Is:	Basic Renovation Extensive Renovation	<input checked="" type="checkbox"/> <input type="checkbox"/>	11.3.3.1 11.3.3.2			
11.4.	Reduction in Performance Level:	Structural: By Increase in occupant load: By change of major occupancy: Plumbing: Sewage System:	<input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> Yes <input type="checkbox"/> Yes <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			
11.4.3.	Compensating Construction:	Structural: Increase in occupant load: Change of major occupancy: Plumbing: Sewage system:	<input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (explain) <input type="checkbox"/> Yes (explain) <input type="checkbox"/> Yes (explain) <input type="checkbox"/> Yes (explain) <input type="checkbox"/> Yes (explain)	11.4.3 11.4.3.2 11.4.3.3 11.4.3.4 11.4.3.5 11.4.3.6			
11.5	Compliance Alternatives Proposed:	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (give number [s])		11.4.2			

NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

427 RICE ROAD, WELLAND, ONT
L3C 7C1 Tel. (905)735-0240

GRGURIC
ARCHITECTS
INCORPORATED

28 KING STREET EAST, UNIT B
STONEY CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gal.com

DOYCHANDFILO.COM
(647) 836-4805
(905) 719-1482

DOYTC & FILO ENGINEERING INC.

Structural Engineers

STRUCTURAL ENGINEER

exp Services Inc.

T: 905.525.6069 | F: 905.528.7310
499 King Street East, Suite 200
Hamilton, ON L8N 1E1
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MECHANICAL / ELECTRICAL ENGINEER

SITE

LOCATION PLAN
N.T.S.

DRAWING LIST:

ARCHITECTURAL

A0.00 COVER SHEET
A1.00 SITE PLAN
A2.00 DEMOLITION PLAN
A2.05 DEMOLITION REFLECTED CEILING PLAN
A2.10 FLOOR PLAN
A2.15 REFLECTED CEILING PLAN AND EXTERIOR ELEVATIONS
A2.20 ROOF PLAN
A3.00 INTERIOR ELEVATIONS
A4.00 SECTIONS AND DETAILS
A4.10 CONCRETE STAIR AND RAMP SECTIONS AND DETAILS
A5.00 MILLWORK
A6.00 GYMNASIUM COURT LAYOUTS
A8.00 ROOM FINISH AND DOOR SCHEDULE

STRUCTURAL

S0.0 GENERAL NOTES
S1.0 FLOOR AND ROOF PLAN
S2.0 FOUNDATION PLAN AND SECTIONS

MECHANICAL

M1.00 DRAWING LIST, KEY PLAN AND LEGENDS
M2.00 GYM FLOOR PLAN - PLUMBING DEMOLITION
M2.01 GYM FLOOR PLAN - PLUMBING INSTALLATION
M3.00 GYM FLOOR PLAN - HVAC DEMOLITION
M3.01 GYM FLOOR PLAN - HVAC INSTALLATION
M3.02 GYM ROOF PLANS - HVAC DEMOLITION AND INSTALLATION
M4.00 MECHANICAL DETAILS 1
M4.01 MECHANICAL DETAILS 2
ME5.0 MECHANICAL AND ELECTRICAL SCHEDULES

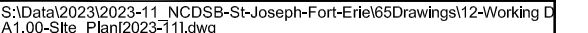
ELECTRICAL

E0.00 ELECTRICAL LEGENDS, SYMBOLS AND DRAWING LIST

ISSUED FOR
TENDER

PROJECT NUMBER
2023-11

SET NUMBER
A 0.00
2024-01-23

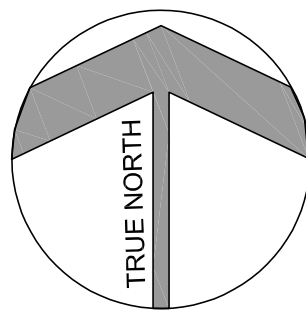




NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

ABBREVIATION LEGEND

EX	EXISTING
FEX	FIRE EXTINGUISHER CABINET
TR	TO REMAIN



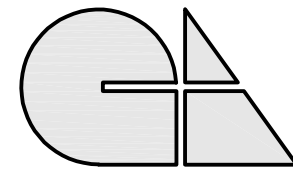
NO	REVISIONS	DATE
4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-06

DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR MUST CHECK AND VERIFY ALL DIMENSIONS AND CONDITIONS ON THE PROJECT AND MUST REPORT ANY DISCREPANCIES TO THE ARCHITECTS BEFORE PROCEEDING WITH THE WORK. THE USE OF THIS DRAWING OR PART THEREOF IS FORBIDDEN WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECTS.

ST. JOSEPH CATHOLIC
ELEMENTARY SCHOOL
GYM AND HVAC
UPGRADES
3650 NETHERBY RD
STEVENSVILLE, ON L0S 1S0

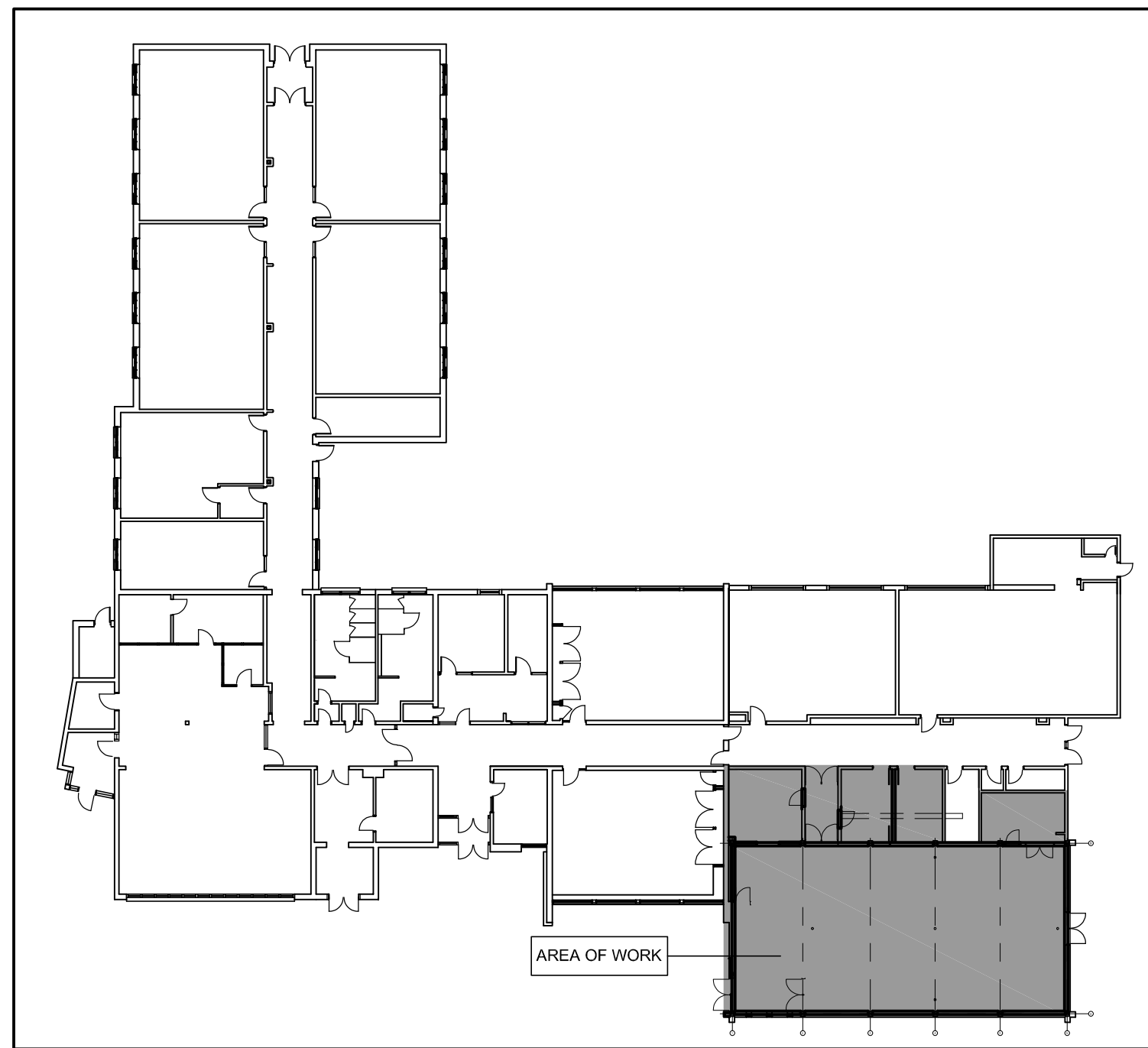
DEMOLITION PLAN

GRGURIC
ARCHITECTS
INCORPORATED



28 KING STREET EAST, UNIT B
STONEY CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2023-11
START DATE: APRIL 2023	
DRAWN DW	DRAWING: A2.00
CHECKED J.G.	
PRINT DATE 02/01/24	



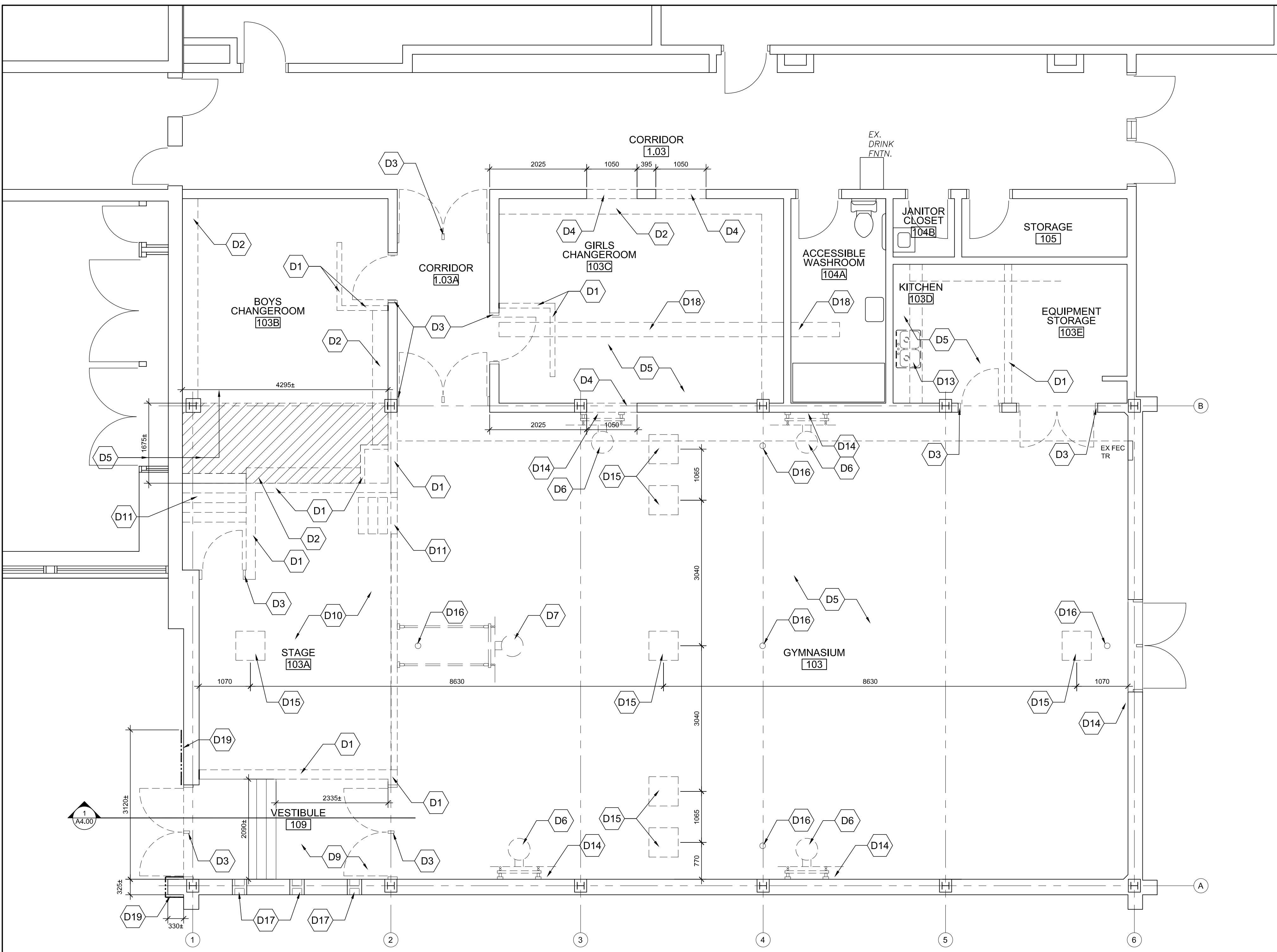
KEY PLAN
SCALE: NTS

GENERAL NOTES

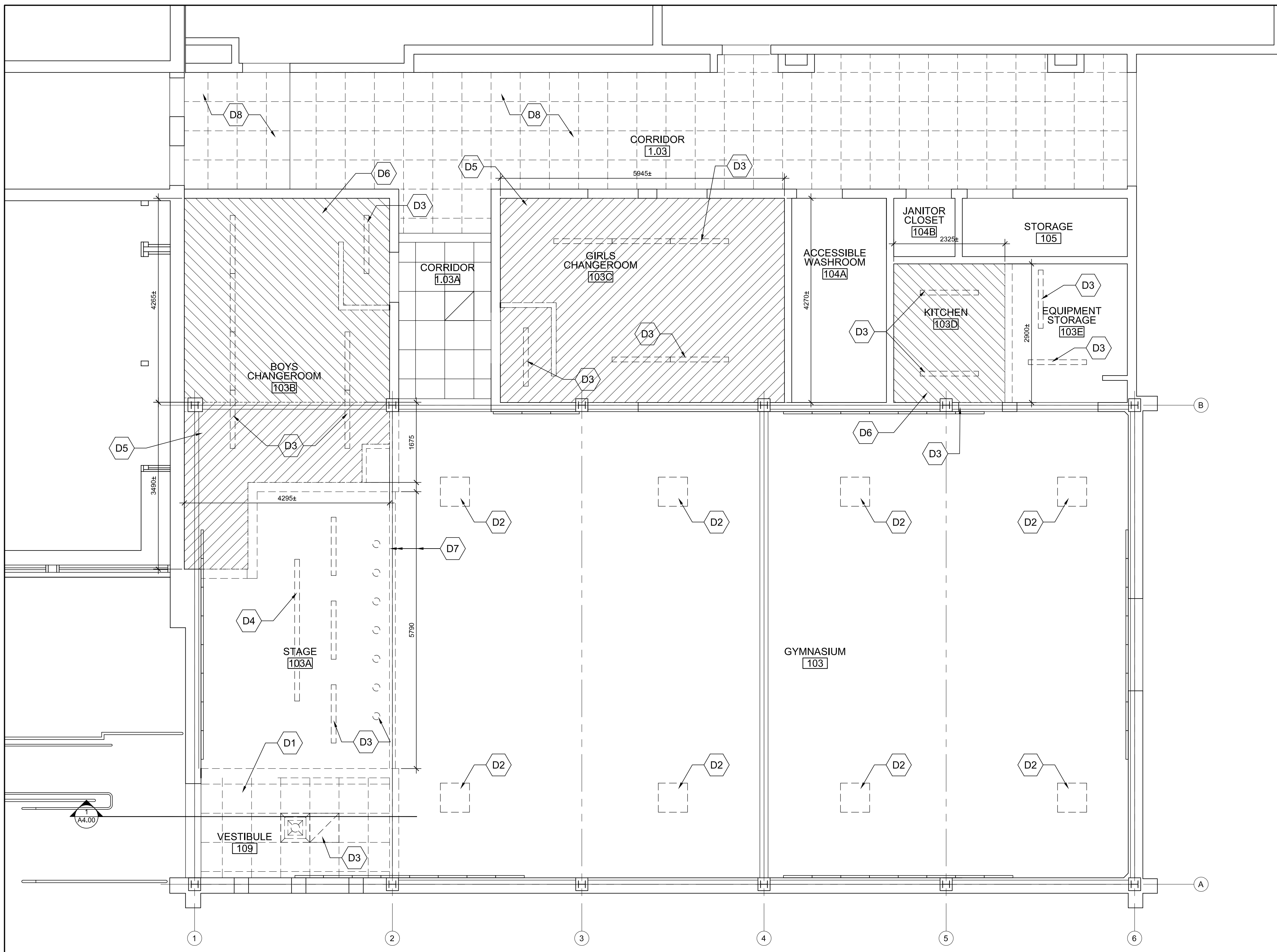
- COORDINATE AND VERIFY WITH THE OWNER ALL ITEMS TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION.
- CAUSE NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. TAKE CARE NOT TO ENCRoACH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL EXISTING FINISHES, DOORS, FRAMES, ETC., WHICH ARE TO REMAIN. PATCH AND MAKE GOOD ALL EXISTING ADJACENT SURFACES FINISHES & MATERIALS WHERE DISTURBED BY NEW CONSTRUCTION AT NO EXTRA COST TO THE PROJECT.
- MECHANICAL AND ELECTRICAL ITEMS SHOWN, I.E. DUCTWORK, PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC., ARE FOR REFERENCE ONLY AND ARE NOT INCLUSIVE. REFER TO MECHANICAL AND ELECTRICAL DRAWING FOR ALL RELATED NEW AND DEMOLITION WORK REQUIRED.
- CONNECTIONS OF ALL NON STRUCTURAL ELEMENTS AND EQUIPMENT TO SUPPORTING STRUCTURE TO BE DESIGNED TO COMPLY WITH ARTICLE 4.1.8.18 OF THE 2012 ONTARIO BUILDING CODE FOR SEISMIC LOADS. CONTRACTOR TO SUBMIT SHOP DRAWINGS SHOWING THESE CONNECTIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER FOR APPROVAL BY ARCHITECT PRIOR TO ANY WORK BEING EXECUTED.
- IF CONTRACTOR ENCOUNTERS ANY SUSPECTED ASBESTOS CONTAINING MATERIALS (ACM) MATERIALS, THEY ARE TO ADVISE ARCHITECT & CLIENT IMMEDIATELY FOR FURTHER CONFIRMATION & INSTRUCTIONS.
- TRANSITIONS BETWEEN NEW AND EXISTING FLOOR FINISHES TO BE MADE SMOOTH AND CONTINUOUS. GRIND EXISTING FLOOR SLAB ACROSS DOOR THRESHOLDS TO SUIT THICKNESS OF NEW MATERIALS AND ENSURE NEW MATERIAL IS INSTALLED FLUSH WITH EXISTING.
- ALL PATCHING AND REPAIRING OF SURFACES ARE NOT NECESSARILY SHOWN. PATCH AND REPAIR ALL EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES TO THAT ALL SURFACES WHEN COMPLETE RESEMBLE A NEW INSTALLATION.
- CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR AND REFINISHING OF ALL EXISTING ADJACENT MATERIALS, SURFACES & FINISHES.
- CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR OF ADJACENT MATERIALS AT ALL ELECTRICAL LIGHTING, EQUIPMENT, CONDUIT, RACEWAYS, MECHANICAL PLUMBING, PIPING, ETC. TO BE REMOVED, RELOCATED, REPLACED, INSTALLED. REFER TO ELECTRICAL DRAWINGS. PREPARE ALL SURFACES FOR NEW FINISHES.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING FLOOR FINISHES TO REMAIN. WALLS AND WALL MOUNTED EQUIPMENT FOR THE DURATION OF THE PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE SITE DAILY AND CONDUCTING A FINAL CLEANING AT THE END OF THE PROJECT. THE FINAL CLEANING INCLUDES A COMPLETE PRE-MOVE CLEANING; WIPING DOWN ALL WALLS, ALL NEW FIXTURES AND MILLWORK; ALL NEW DOOR FRAMES AND SILLS, SWEEPING AND MOPPING THE FLOORS. THE CONTRACTOR WILL PROVIDE ALL EQUIPMENT NECESSARY TO CLEAN THE SITE PRIOR TO CLIENT OCCUPANCY. THE CONTRACTOR WILL NOT BE PERMITTED TO USE CLIENTS CARE TAKING TOOLS AND EQUIPMENT; MOPS, BROOMS, BAGS, BINS, ETC.
- COORDINATE WITH MECHANICAL & ELECTRICAL DOCUMENTS FOR FULL EXTENT OF ALTERATIONS TO EXISTING PLUMBING, HEATING, VENTILATION, SPRINKLER SYSTEMS, ELECTRICAL PANELS, FIXTURES, CONDUITS, ETC., WITHIN EXISTING TO REMAIN.
- WHERE EXISTING SURFACES ARE DISTURBED DUE TO DEMOLITION OR ALTERATIONS, AND NOT REQUIRED TO BE COVERED WITH NEW FINISHES, SUCH SURFACES SHALL BE MADE GOOD TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES.
- MAKE GOOD ALL MATERIALS AND FINISHES WHERE DISTURBED AND WHERE ALTERATIONS OCCUR. REFER TO ALL DOCUMENTS FOR EXTENT OF WORK REQUIRED. MAKING GOOD INCLUDES ALL WORK ASSOCIATED WITH THE REMOVAL OF EXISTING AND INSTALLATION OF NEW SERVICES, ETC. (EXAMPLES: PLUMBING / HEATING MODIFICATIONS IN EXISTING BUILDING, INSTALLATION OF NEW DUCTS IN EXISTING BUILDING, ETC.)
- WHERE EXISTING WALLS, PARTITIONS / FURRINGS, BUILDING FITMENTS, HOUSEKEEPING PADS, ETC., ARE BEING REMOVED, MAKE GOOD SUBSTRATES TO RECEIVE NEW SPECIFIED MATERIALS AND FINISHES.
- AT WALL IN FILLS, SAWTOOTH BLOCK AND BRICK AS REQUIRED. CLEANLY SAW CUT WITH SINGLE SCORE AT EX VERTICAL COURSING JOINTS. NEW BLOCK AND BRICK INFILL TO MATCH EX BLOCK / BRICK THICKNESS AND COURSING AND KEEP FLUSH.

DEMOLITION NOTES

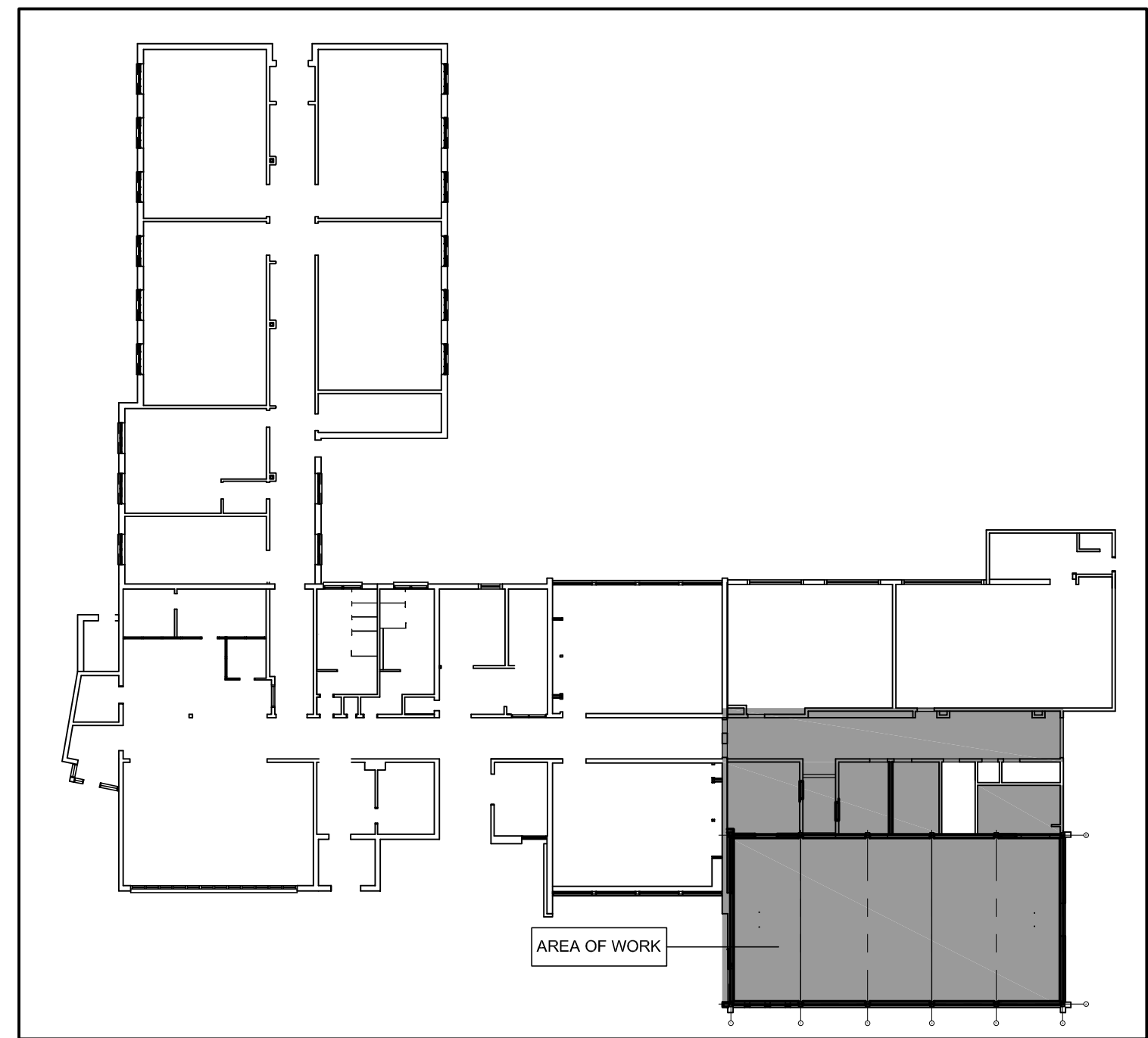
- D1 EXISTING CONCRETE BLOCK WALL TO BE DEMOLISHED AND DISPOSED OF. PATCH AND REPAIR EXISTING WALL AND FLOOR TO REMAIN AND MAKE READY TO RECEIVE NEW FINISHES.
- D2 EXISTING WOOD BENCH, METAL SUPPORT BRACKETS, WOOD SHELF, WOOD RAIL AND COAT HOOKS TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR WALLS AS REQUIRED TO MAKE READY TO RECEIVE NEW WALL FINISH.
- D3 EXISTING WOOD/METAL DOORS AND METAL FRAMES TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR OPENING AS REQUIRED TO MAKE READY TO RECEIVE NEW DOOR AND FRAME WHERE SCHEDULED.
- D4 CUT NEW DOORWAY OPENING IN EXISTING CONCRETE BLOCK WALL. REMOVE AND DISPOSE. COORDINATE OPENING SIZE PER DOOR SCHEDULE. PROVIDE NEW LINTEL OVER OPENING.
- D5 HATCH DENOTES EXTENTS OF EXISTING VINYL TILE FLOORING TO BE REMOVED AND DISPOSED OF. GRIND CONCRETE SLAB TO REMOVE ANY EXCESS ADHESIVE AND MAKE SLAB READY TO RECEIVE NEW FLOOR FINISH.
- D6 EXISTING WALL MOUNTED BASKETBALL NETS AND BACKSTOPS TO BE REMOVED AND DISPOSED OF. REMOVED AND DISPOSE ANY EXISTING BLOCKING BEHIND THE BACKSTOPS. PATCH AND REPAIR THE CONCRETE BLOCK WALLS TO REMAIN AND MAKE READY TO RECEIVE NEW WALL FINISH.
- D7 EXISTING CEILING MOUNTED BASKETBALL BACKSTOP AND FRAME TO BE REMOVED AND STORED IN A SAFE PLACE FOR REINSTALLATION.
- D8 NOT USED
- D9 EXISTING TILE FINISH TO BE REMOVED AND DISPOSED OF. GRIND EXISTING FLOOR SLAB TO REMOVE ANY EXCESS MORTAR AND MAKE SURFACE READY TO RECEIVE NEW CONCRETE TOPPING.
- D10 EXISTING RAISED STAGE STRUCTURE TO BE REMOVED AND DISPOSED OF. DESCRIPTION OF EXISTING STAGE ASSEMBLY: VINYL TILE FINISH ON 19mm PLYWOOD ON 38mm x 140mm WOOD JOISTS AT 400mm O/C SPANNING N-S ACROSS 4 BAY SPANS OF SUPPORTING 38mm x 88mm WOOD FRAMED PARTITIONS BELOW. STAGE STRUCTURE INCLUDES TOP LANDING OF STAIRS TO BOYS' CHANGEROOM 103B (REFER TO D11 FOR RELATED WORK) DISPOSAL ALSO INCLUDES 3 WOOD FRONT ACCESS DOORS BELOW STAGE, ALL WOOD TRIMS AND 3 EXISTING PULL-OUT CHAIR DOLLIES. COORDINATE IN ADVANCE WITH SCHOOL THE REMOVAL OF BELOW-STAGE CONTENTS. PATCH AND REPAIR EXISTING CONCRETE FLOOR SLAB AS REQUIRED TO MAKE READY TO RECEIVE NEW FLOOR FINISHES. REMOVE AND DISPOSE OF EXISTING PADS ALONG EDGE OF STAGE.
- D11 EXISTING WOOD STAIRS TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR (AS REQUIRED) EXISTING WALLS AND FLOOR TO REMAIN TO MAKE READY TO RECEIVE NEW FINISHES.
- D12 EXISTING WOOD STAIRS TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR (AS REQUIRED) EXISTING WALLS AND FLOOR TO REMAIN TO MAKE READY TO RECEIVE NEW FINISHES.
- D13 EXISTING MILLWORK (UPPER AND BASE CABINETS) TO BE REMOVED AND DISPOSED OF INCLUDES UPPER CABINETS ABOVE FRIDGE AND STOVE. REFER TO AND COORDINATE WITH THE MECHANICAL DRAWINGS FOR THE REMOVAL OF THE EXISTING SINK AND RELATED PLUMBING. PATCH AND REPAIR (AS REQUIRED) THE EXISTING WALLS TO REMAIN AND MAKE READY TO RECEIVE NEW WALL FINISHES. COORDINATE WITH SCHOOL AND RELOCATE EXISTING ELECTRIC STOVE AND FRIDGE TO THE DESIGNATED TEMPORARY STORAGE LOCATION WITHIN SCHOOL.
- D14 EXISTING VELCRO WALL STRIP AND WALL PADS TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR EXISTING BLOCK WALLS TO REMAIN AND MAKE READY TO RECEIVE NEW WALL FINISH.
- D15 IN REFERENCE TO TYPICAL NEW FLOOR SOCKETS (REFER TO DETAIL 2/A2.10), CUT, REMOVE AND DISPOSE OF 610mm x 610mm SECTION OF THE EXISTING CONCRETE FLOOR SLAB. COORDINATE AS NEEDED WITH NEW COURT LINES.
- D16 REMOVE AND DISPOSE OF EXISTING FLOOR SOCKET. PATCH AND REPAIR CONCRETE SLAB AND MAKE READY TO RECEIVE NEW FLOOR FINISH.
- D17 REMOVE AND DISPOSE OF EXISTING ALUMINIUM WINDOW FRAME AND GLAZING. MAKE OPENING READY TO RECEIVE WALL INFILL.
- D18 PROVIDE SLAB ON GRADE CUTTING AND REMOVAL FOR NEW SANITARY. ALLOW FOR REMOVAL OF EXISTING GRANULARS BELOW SLAB AS REQUIRED. REFER TO MECHANICAL DRAWINGS. ALLOW FOR UP TO 180mm EXISTING SLAB THICKNESS.
- D19 REMOVE AND SALVAGE THE FIRST 11 BRICK COURSES ABOVE THE TOP OF THE EXISTING FOUNDATION WALL TO THE EXTENT SHOWN. REMOVE BRICKS IN A SAW TOOTH PATTERN AT EXTENTS OF REMOVAL.



1 PARTIAL GROUND FLOOR DEMOLITION PLAN
A2.00 SCALE: 1:50



1 PARTIAL GROUND FLOOR DEMOLITION REFLECTED CEILING PLAN
A2.05/ SCALE: 1:50



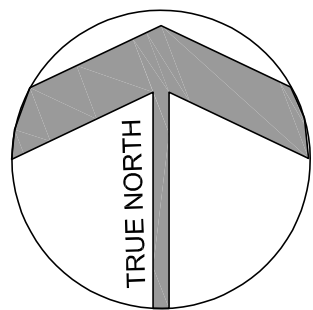
KEY PLAN
SCALE: NTS

DEMOLITION NOTES

- D1 EXISTING SUSPENDED CEILING, SUSPENSION SYSTEM AND WALL TRACK TO BE REMOVED AND DISPOSED OF. PATCH AND REPAIR (AS REQUIRED) WALLS TO REMAIN AND MAKE READY TO RECEIVE NEW WALL FINISHES
- D2 EXISTING LIGHTS TO BE REMOVED AND TURNED OVER TO OWNER. REFER TO AND COORDINATE WITH ELECTRICAL DRAWINGS
- D3 EXISTING LIGHTS TO BE REMOVED AND DISPOSED OF. REFER TO AND COORDINATE WITH ELECTRICAL DRAWINGS
- D4 EXISTING PROJECTION SCREEN AND PIPE RAIL SUPPORT TO BE REMOVED AND DISPOSED OF
- D5 EXISTING GYPSUM BOARD CEILING TO BE REMOVED AND DISPOSED OF. CUT BACK EXISTING CEILING SUPPORTS TO ALLOW FOR INSTALLATION OF NEW BLOCK WALL. REMOVE ANY UNUSED HANGING WIRE.
- D6 EXISTING GYPSUM BOARD CEILING TO BE REMOVED AND DISPOSED OF. EXISTING CEILING SUPPORTS TO BE REMOVED AS REQUIRED TO ALLOW FOR THE REMOVAL OF THE EXISTING HVAC DUCTS. REFER TO AND COORDINATE WITH MECHANICAL DRAWINGS.
- D7 EXISTING GYPSUM BOARD BULKHEAD TO BE REMOVED AND DISPOSED OF.
- D8 EXISTING ACOUSTIC CEILING TILES AND SUSPENSION SYSTEM TO BE REMOVED AND DISPOSED OF. TEMPORALLY SECURE EXISTING LIGHT FIXTURES, EMERGENCY LIGHTING AND SPEAKERS THAT ARE REMAINING TO THE US OF EXISTING STRUCTURE.



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD



4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-06

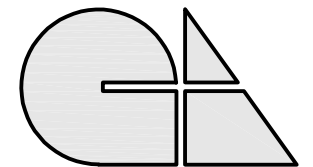
NO	REVISIONS	DATE
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DEMOLITION
REFLECTED CEILING
PLAN

GRGURIC
ARCHITECTS
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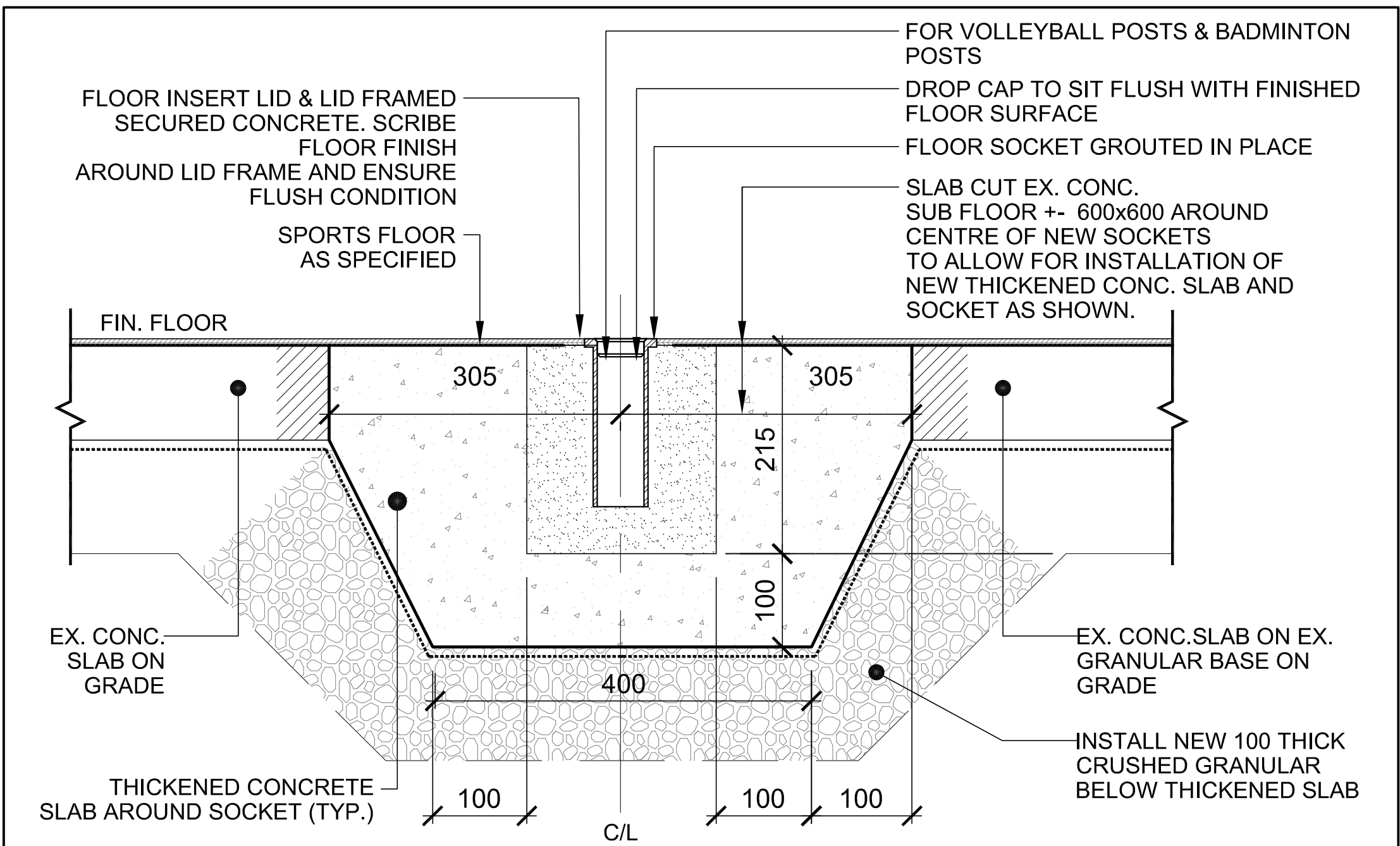


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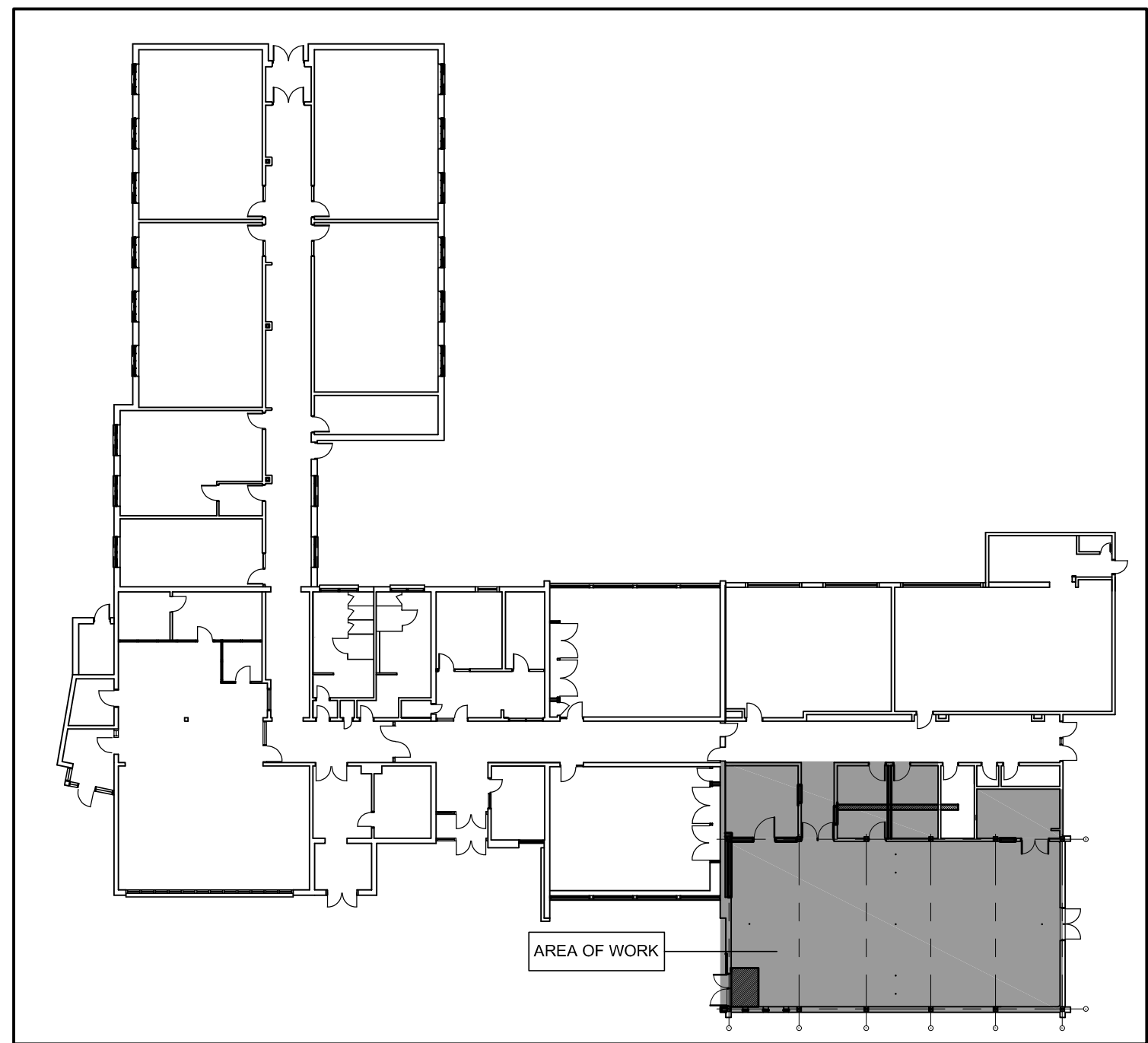
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START DATE: APRIL 2023	
DRAWN DW	DRAWING: A2.05
CHECKED J.G.	
PRINT DATE 02/01/24	

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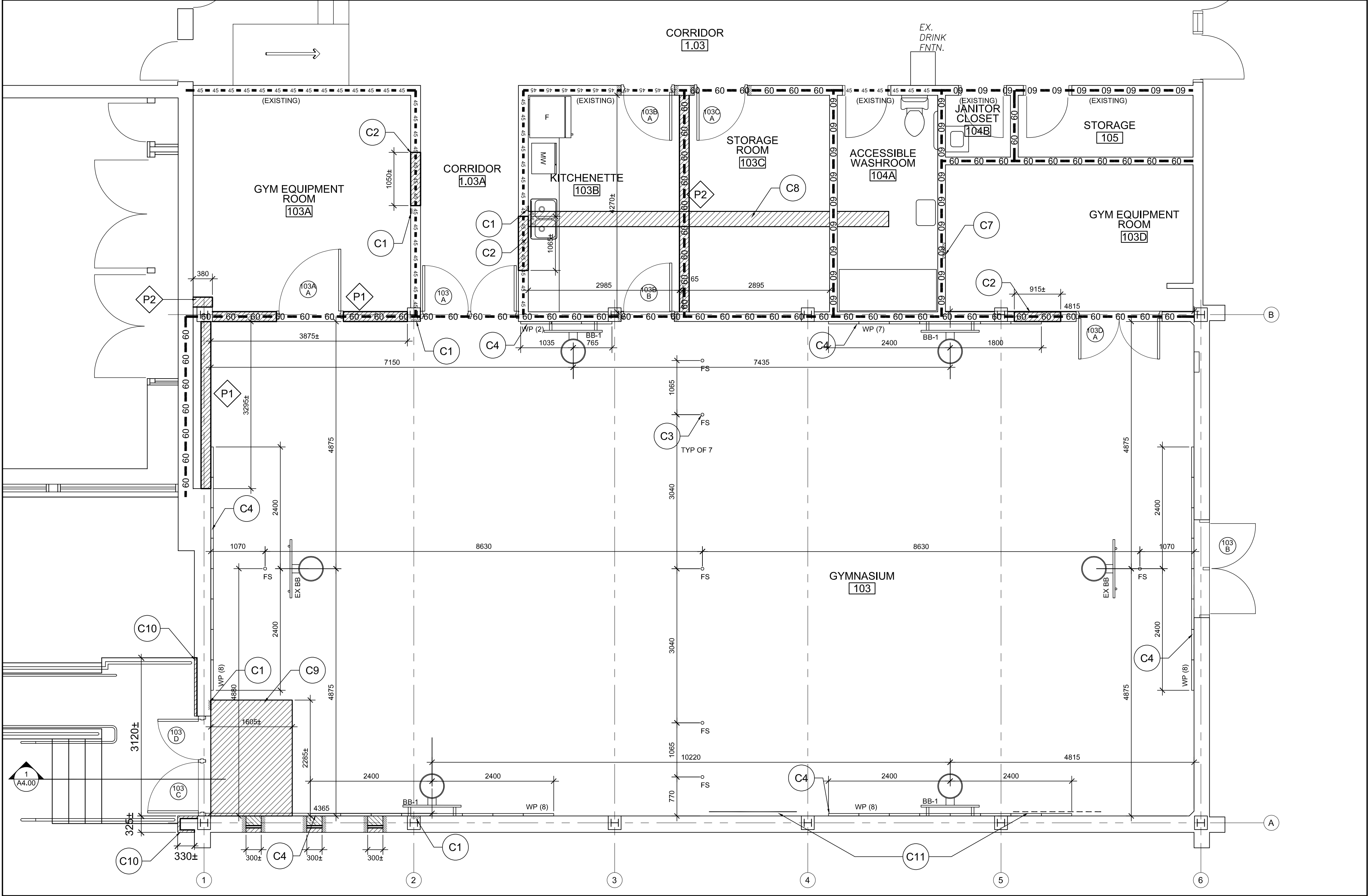
INTERIOR WALL PARTITION TYPES			
REFER TO STRUCTURAL FOR MASONRY REINFORCING.			
NO.	ASSEMBLY	DESCRIPTION	REMARKS
P1		190mm CONC. BLOCK	EXTEND TO T/O EXISTING BLOCK WALL (APPROX 3400mm)
P2		190mm CONC. BLOCK	EXTEND TO U/S OF EXISTING STRUCTURE (APPROX 3250mm)
P3		- 150mm METAL STUDS AT 300mm O/C - 15mm PLYWOOD - 25mm ACOUSTIC WALL PANELS	EXTEND FROM T/O BLOCK WALL TO U/S OF EX BEAM (APPROX 1700mm) NOTE: LOCATED ABOVE THE TOP SILL OF THE TYPICAL GYM PERIMETER WALL REFER TO TYP DETAIL 1/A4.00U



2
A2.10
DETAIL FLOOR SOCKET
SCALE: 1:5



KEY PLAN
SCALE: NTS



1
A2.10
PARTIAL GROUND FLOOR PLAN
SCALE: 1:50

GENERAL NOTES

- COORDINATE AND VERIFY WITH THE OWNER ALL ITEMS TO BE SALVAGED, MOVED & STORED PRIOR TO DEMOLITION.
- CAUSE NO DAMAGE TO EXISTING CONSTRUCTION TO REMAIN. TAKE CARE NOT TO ENCRONCH ON ADJACENT OCCUPIED AREAS OR AREAS NOT WITHIN THE SCOPE OF WORK. PROTECT ALL EXISTING FINISHES, DOORS, FRAMES, ETC. WHICH ARE TO REMAIN. PATCH AND MAKE GOOD ALL EXISTING ADJACENT SURFACES FINISHES & MATERIALS WHERE DISTURBED BY NEW CONSTRUCTION AT NO EXTRA COST TO THE PROJECT.
- MECHANICAL AND ELECTRICAL ITEMS SHOWN, I.E. DUCTWORK, PIPING, ELECTRICAL CONDUITS, LIGHT FIXTURES, ETC. ARE FOR REFERENCE ONLY AND ARE NOT INCLUSIVE. REFER TO MECHANICAL AND ELECTRICAL DRAWING FOR ALL RELATED NEW AND DEMOLITION WORK REQUIRED.
- CONNECTIONS OF ALL NON STRUCTURAL ELEMENTS AND EQUIPMENT TO SUPPORTING STRUCTURE TO BE DESIGNED TO COMPLY WITH ARTICLE 4.1.8.18 OF THE 2012 ONTARIO BUILDING CODE FOR SEISMIC LOADS. CONTRACTOR TO SUBMIT SHOP DRAWINGS SHOWING THESE CONNECTIONS STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER FOR APPROVAL BY ARCHITECT PRIOR TO ANY WORK BEING EXECUTED.
- IF CONTRACTOR ENCOUNTERS ANY SUSPECTED ASBESTOS CONTAINING MATERIALS (ACM) MATERIALS. THEY ARE TO ADVISE ARCHITECT & CLIENT IMMEDIATELY FOR FURTHER CONFIRMATION & INSTRUCTIONS.
- TRANSITIONS BETWEEN NEW AND EXISTING FLOOR FINISHES TO BE MADE SMOOTH AND CONTINUOUS. GRIND EXISTING FLOOR SLAB ACROSS DOOR THRESHOLDS TO SUIT THICKNESS OF NEW MATERIALS AND ENSURE NEW MATERIAL IS INSTALLED FLUSH WITH EXISTING.
- ALL PATCHING AND REPAIRING OF SURFACES ARE NOT NECESSARILY SHOWN. PATCH AND REPAIR ALL EXISTING SURFACES SCHEDULED TO RECEIVE NEW FINISHES TO THAT ALL SURFACES WHEN COMPLETE RESEMBLE A NEW INSTALLATION.
- CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR AND REFINISHING OF ALL EXISTING ADJACENT MATERIALS, SURFACES & FINISHES.
- CONTRACTOR TO ALLOW FOR PATCHING AND REPAIR OF ADJACENT MATERIALS AT ALL ELECTRICAL LIGHTING, EQUIPMENT, CONDUIT, RACEWAYS, MECHANICAL PLUMBING, PIPING, ETC. TO BE REMOVED, RELOCATED, REPLACED, INSTALLED. REFER TO ELECTRICAL DRAWINGS. PREPARE ALL SURFACES FOR NEW FINISHES.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING FLOOR FINISHES TO REMAIN, WALLS AND WALL MOUNTED EQUIPMENT FOR THE DURATION OF THE PROJECT.
- CONTRACTOR IS RESPONSIBLE FOR SWEEPING THE SITE DAILY AND CONDUCTING A FINAL CLEANING AT THE END OF THE PROJECT. THE FINAL CLEANING INCLUDES A COMPLETE PRE-MOVE CLEANING: WIPING DOWN ALL WALLS, ALL NEW FIXTURES AND MILLWORK, ALL NEW DOOR FRAMES AND SILLS, SWEEPING AND MOPPING THE FLOORS. THE CONTRACTOR WILL PROVIDE ALL EQUIPMENT NECESSARY TO CLEAN THE SITE PRIOR TO CLIENT OCCUPANCY. THE CONTRACTOR WILL NOT BE PERMITTED TO USE CLIENTS CARE TAKING TOOLS AND EQUIPMENT; MOPS, BROOMS, BAGS, BINS, ETC.
- COORDINATE WITH MECHANICAL & ELECTRICAL DOCUMENTS FOR FULL EXTENT OF ALTERATIONS TO EXISTING PLUMBING, HEATING, VENTILATION, SPRINKLER SYSTEMS, ELECTRICAL PANELS, FIXTURES, CONDUITS, ETC. WITHIN EXISTING TO REMAIN.
- WHERE EXISTING SURFACES ARE DISTURBED DUE TO DEMOLITION OR ALTERATIONS, AND NOT REQUIRED TO BE COVERED WITH NEW FINISHES, SUCH SURFACES SHALL BE MADE GOOD TO MATCH EXISTING ADJACENT MATERIALS AND FINISHES.
- MAKE GOOD ALL MATERIALS AND FINISHES WHERE DISTURBED AND WHERE ALTERATIONS OCCUR. REFER TO ALL DOCUMENTS FOR EXTENT OF WORK REQUIRED. MAKING GOOD INCLUDES ALL WORK ASSOCIATED WITH THE REMOVAL OF EXISTING AND INSTALLATION OF NEW SERVICES, ETC. (EXAMPLES: PLUMBING / HEATING MODIFICATIONS IN EXISTING BUILDING, INSTALLATION OF NEW DUCTS IN EXISTING BUILDING, ETC.)
- WHERE EXISTING WALLS, PARTITIONS / FURRINGS, BUILDING FITMENTS, HOUSEKEEPING PADS, ETC., ARE BEING REMOVED, MAKE GOOD SUBSTRATES TO RECEIVE NEW SPECIFIED MATERIALS AND FINISHES.
- AT WALL IN FILLS, SAWTOOTH BLOCK AND BRICK AS REQUIRED. CLEANLY SAW CUT WITH SINGLE SCORE AT EX VERTICAL, COURSING JOINTS. NEW BLOCK AND BRICK INFILL TO MATCH EX BLOCK / BRICK THICKNESS AND COURSING AND KEEP FLUSH.

CONSTRUCTION NOTES

- C1 PATCH AND REPAIR EX CONCRETE BLOCK WALL AND MAKE READY TO RECEIVE NEW FINISH.
- C2 INFILL EX DOOR OPENING W/ 190mm CONCRETE BLOCKS. APPROX HEIGHT OF OPENING IS 2250mm.
- C3 NEW FLOOR SOCKET. REFER TO DETAIL 2/A2.10
- C4 PROVIDE NEW WALL MATS AND VELCRO WALL HANGING STRIP
- C5 EX WINDOW OPENINGS TO BE INFILLED WITH 190mm CONCRETE BLOCK AND 90mm VENEER BRICK. APPROX HEIGHT OF OPENING IS 1200mm±
- C6 NOT USED
- C7 ALLOW FOR WALL AND FLOOR PATCHING (AS REQUIRED) FOR THE REMOVED SINK AND PLUMBING.
- C8 PROVIDE NEW POURED CONCRETE FLOOR. REFER TO STRUCTURAL DRAWINGS FOR TYPICAL SLAB CONSTRUCTION. THICKNESS OF NEW FLOOR TO MATCH EX FLOOR SLAB (ALLOW FOR 180mm THICKNESS). PROVIDE 300mm LG 10M DOWELS AT 500mm O/C ALTERNATING EACH SIDE. EPOXY EMBED DOWELS 100mm INTO EX FLOOR SLAB
- C9 DENOTES NEW CONCRETE SLAB ON GRADE INFILL. REFER TO STRUCTURAL DRAWINGS
- C10 DENOTES EXTENT OF REINSTALLATION OF BRICK (5 COURSES) ABOVE NEW CONCRETE LANDING. ALLOW FOR SAW TOOTHING IN FULL UNITS AT EXTENTS. PROVE NEW CONCRETE BLOCKS (90mm OR 140mm FIELD VERIFY) FROM TOP OF FOUNDATION WALL TO TOP OF NEW LANDING. REFER TO DETAIL 3/A4.10
- C11 REMOVE EX WALL MOUNTED WINCH BAR AND THREE (3) WALL HOOKS AND RELOCATE ON SAME WALL AS SHOWN. ALSO REFER TO ELEVATION C ON 1/A3.00. EACH WALL HOOK IS MOUNTED TO WALL WITH BOLT OR SCREW FASTENER - PATCH WALL HOLES WHERE THESE FASTENERS ARE REMOVED. FASTENERS CAN BE REUSED OR USE NEW TO MATCH EXISTING.

NIAGARA CATHOLIC DISTRICT SCHOOL BOARD

ABBREVIATION LEGEND

APPROX	APPROXIMATE
BB-x	BASKETBALL BACKBOARD
CONC	CONCRETE
EX	EXISTING
FIN	FINISHED
T/O	TOP OF
TYP	TYPICAL
U/S	UNDERSIDE
WP	WALL PAD
W/	WITH

■ 45 ■ 45 (EXISTING) EXISTING 45 min FIRE RATING
■ 60 ■ 60 (EXISTING) EXISTING 1hr FIRE RATING
■ 45 ■ 45 (EXISTING) 45 min FIRE RATING
■ 60 ■ 60 (EXISTING) 1hr FIRE RATING

NO	REVISIONS	DATE
4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-06

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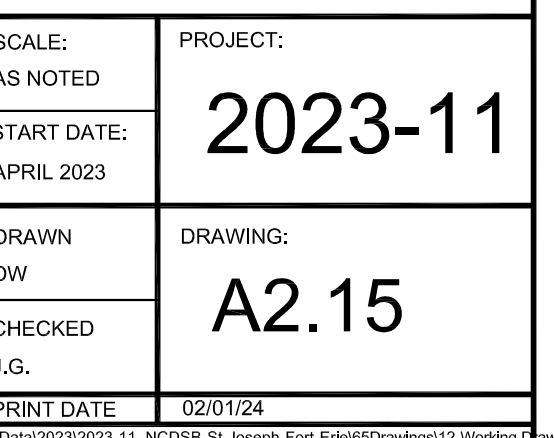
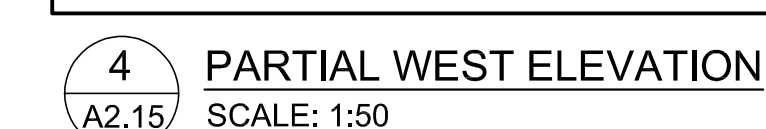
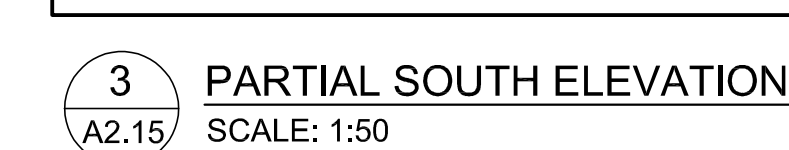
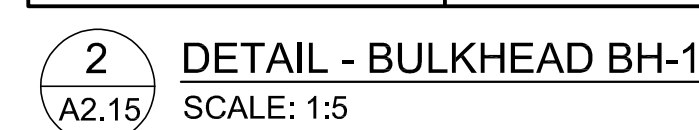
FLOOR PLAN

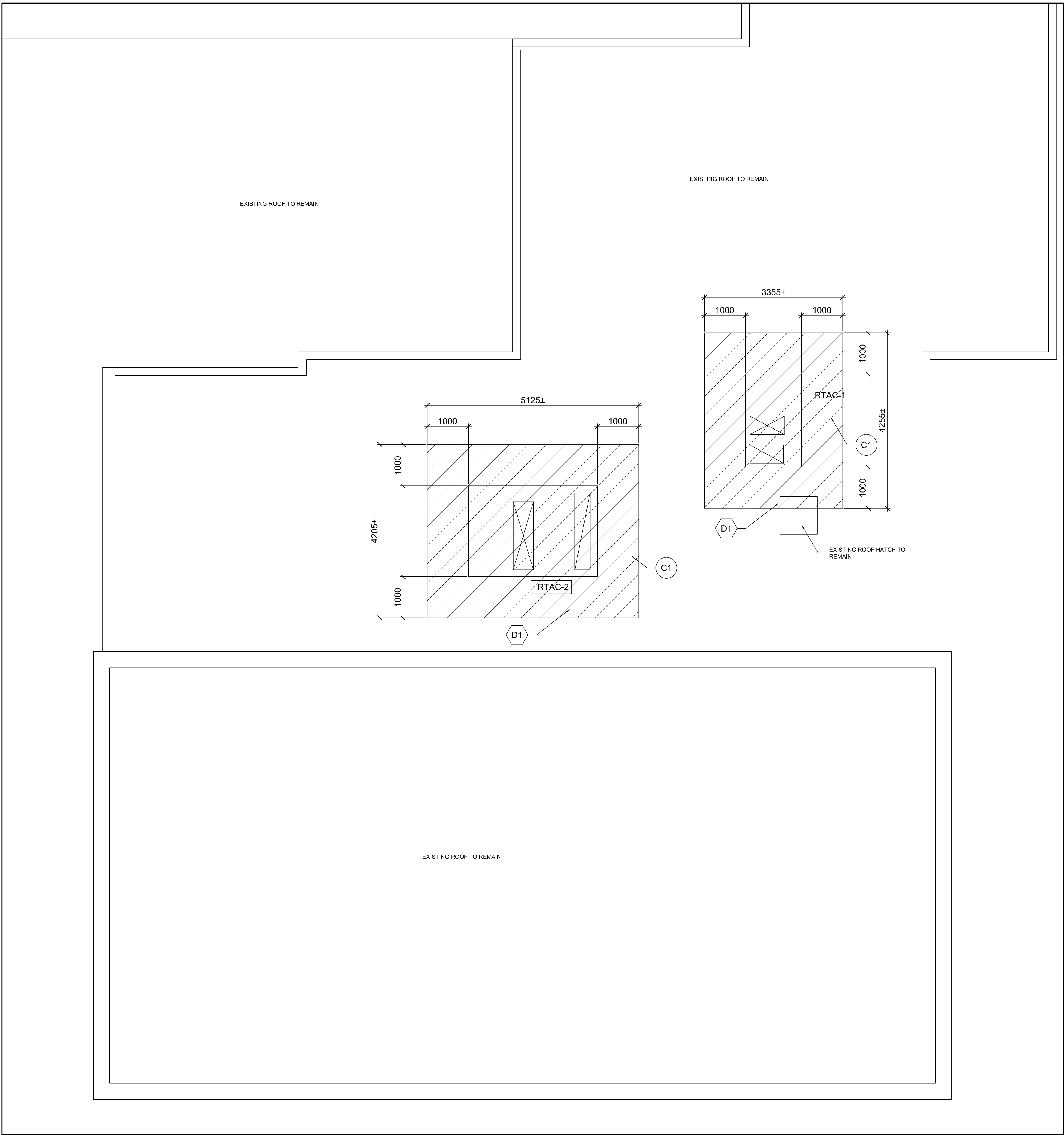
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Tel. 905-664-8735 Fax. 905-664-8737
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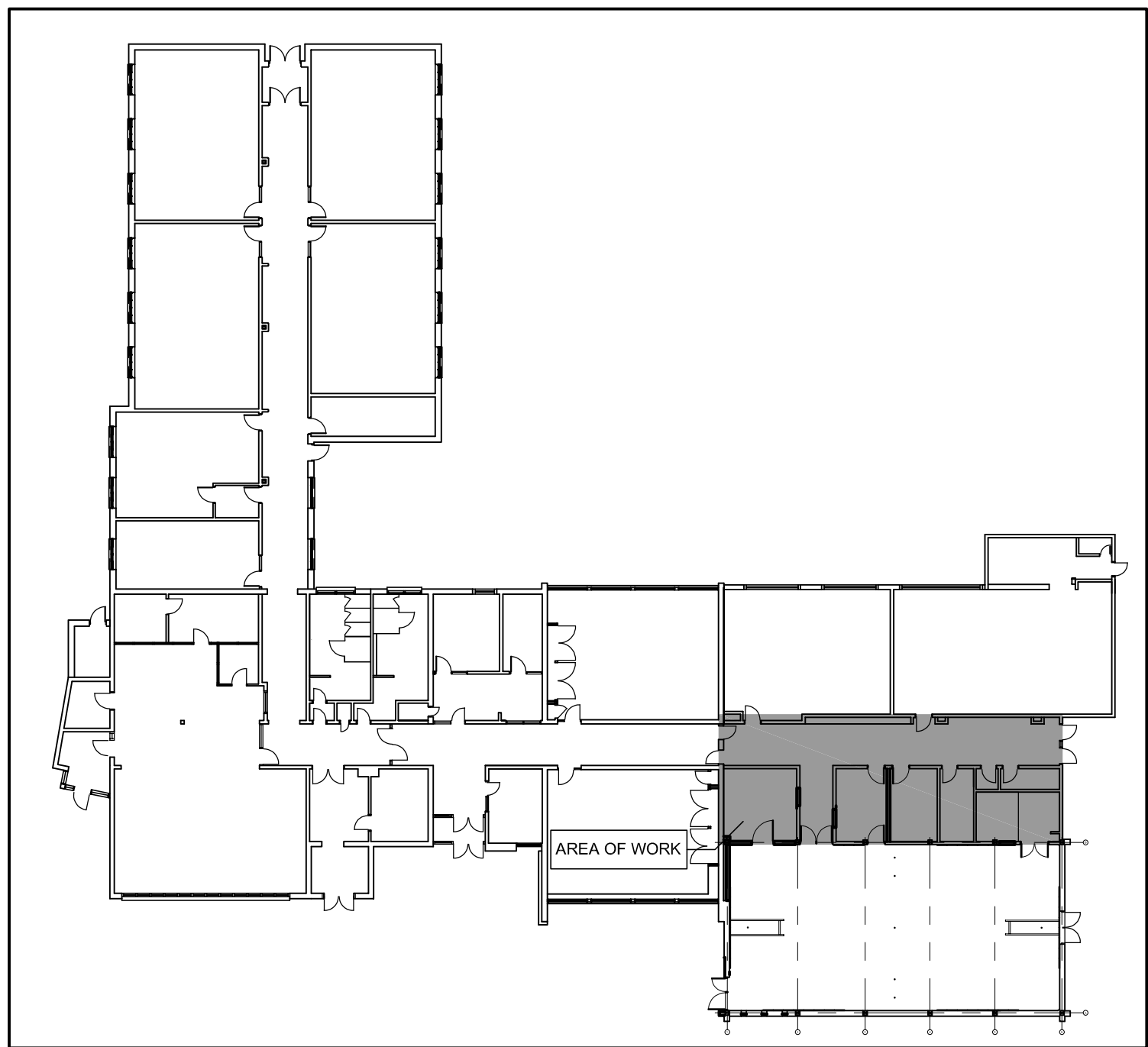
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START DATE: APRIL 2023	
DRAWN DW	DRAWING: A2.10
CHECKED J.G.	
PRINT DATE 02/01/24	

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1 PARTIAL GROUND FLOOR PLAN
SCALE: 1:50



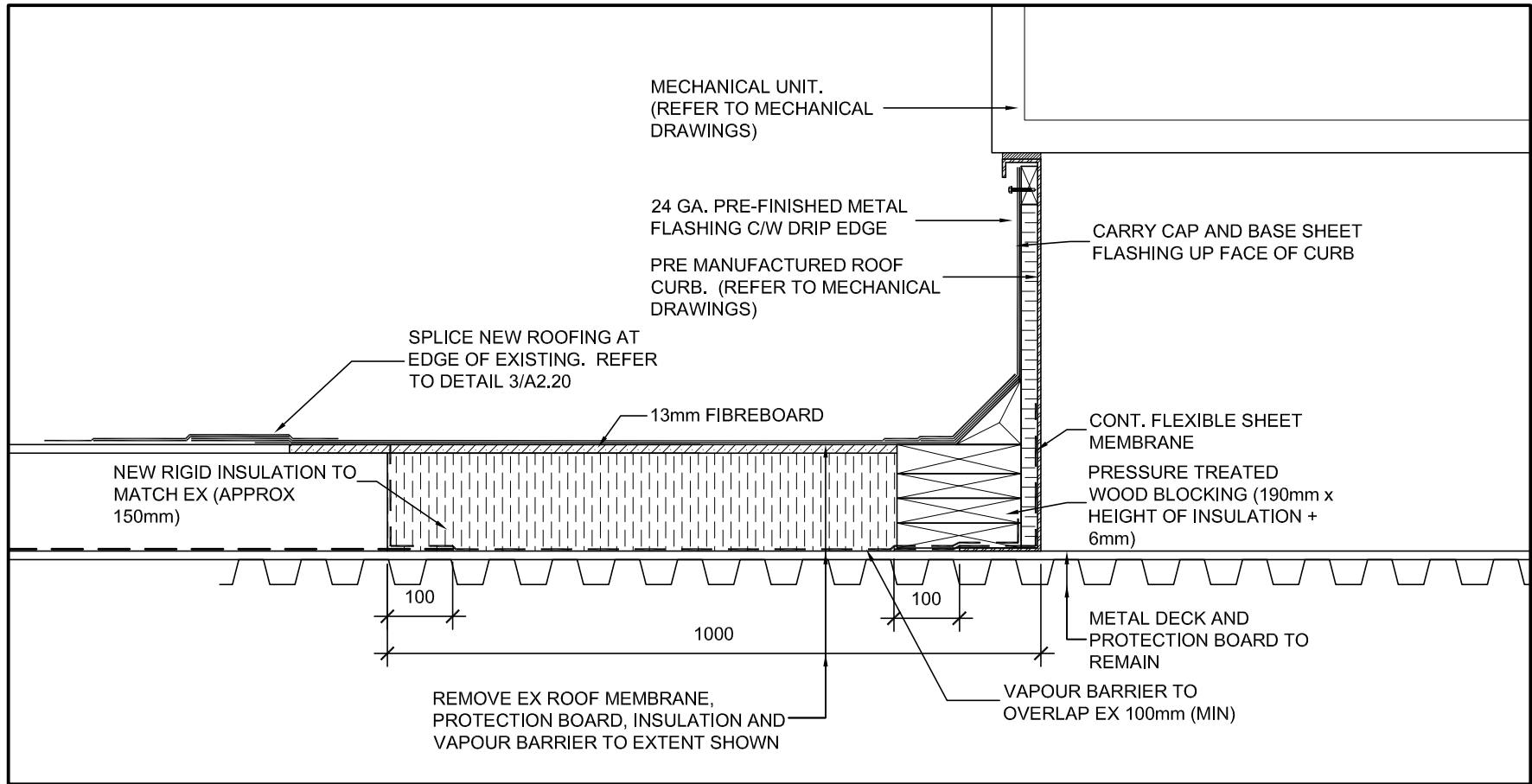
KEY PLAN
SCALE: NTS

DEMOLITION NOTES

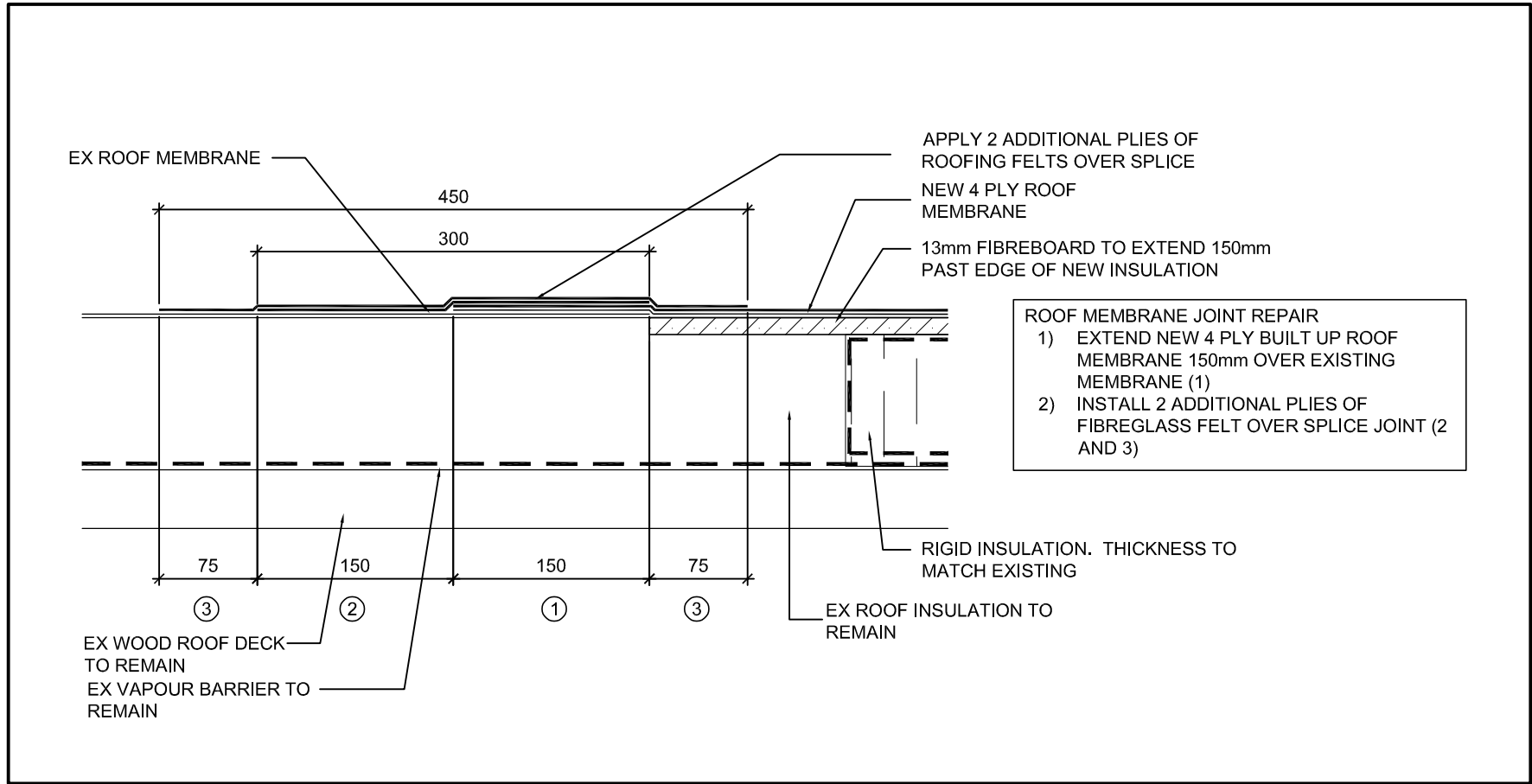
D1 DENOTES EXTENT OF EXISTING BUR ROOF MEMBRANE, PROTECTION BOARD, INSULATION AND VAPOUR BARRIER TO BE REMOVED AND DISPOSED OF TO ALLOW FOR INSTALLATION OF NEW CURB FOR MECHANICAL UNITS

CONSTRUCTION NOTES

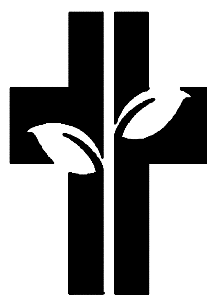
C1 PATCH AND REPAIR EX ROOF AROUND NEW MECHANICAL CURB. REFER TO DETAIL



2 DETAIL - MECHANICAL UNIT CURB
SCALE: 1:10



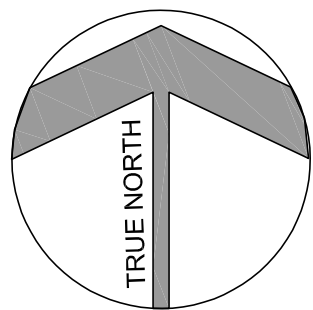
3 DETAIL - ROOF MEMBRANE SPLICE
SCALE: 1:5



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

ABBREVIATION LEGEND

APPROX APPROXIMATE
CONT CONTINUOUS
C/W COMPLETE WITH
EX EXISTING
MIN MINIMUM
TYP TYPICAL
W/ WITH



4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-06

NO	REVISIONS	DATE
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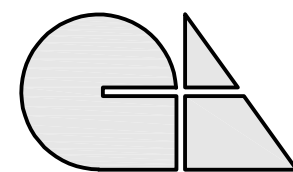
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ROOF PLAN

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PRINT DATE 02/01/24	

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BB-x	BASKETBALL BACKBOARD
CWT	CERAMIC WALL TILE
CTS	CUT TO SUIT
EX	EXISTING
PNT	PAINT
WP	WALL PAD

4	ISSUED FOR TENDER	2024-01-2
3	ISSUED FOR BUILDING PERMIT	2024-01-1
2	ISSUED FOR CLIENT REVIEW	2023-12-2
1	ISSUED FOR CLIENT REVIEW	2023-11-0
NO	REVISIONS	DATE

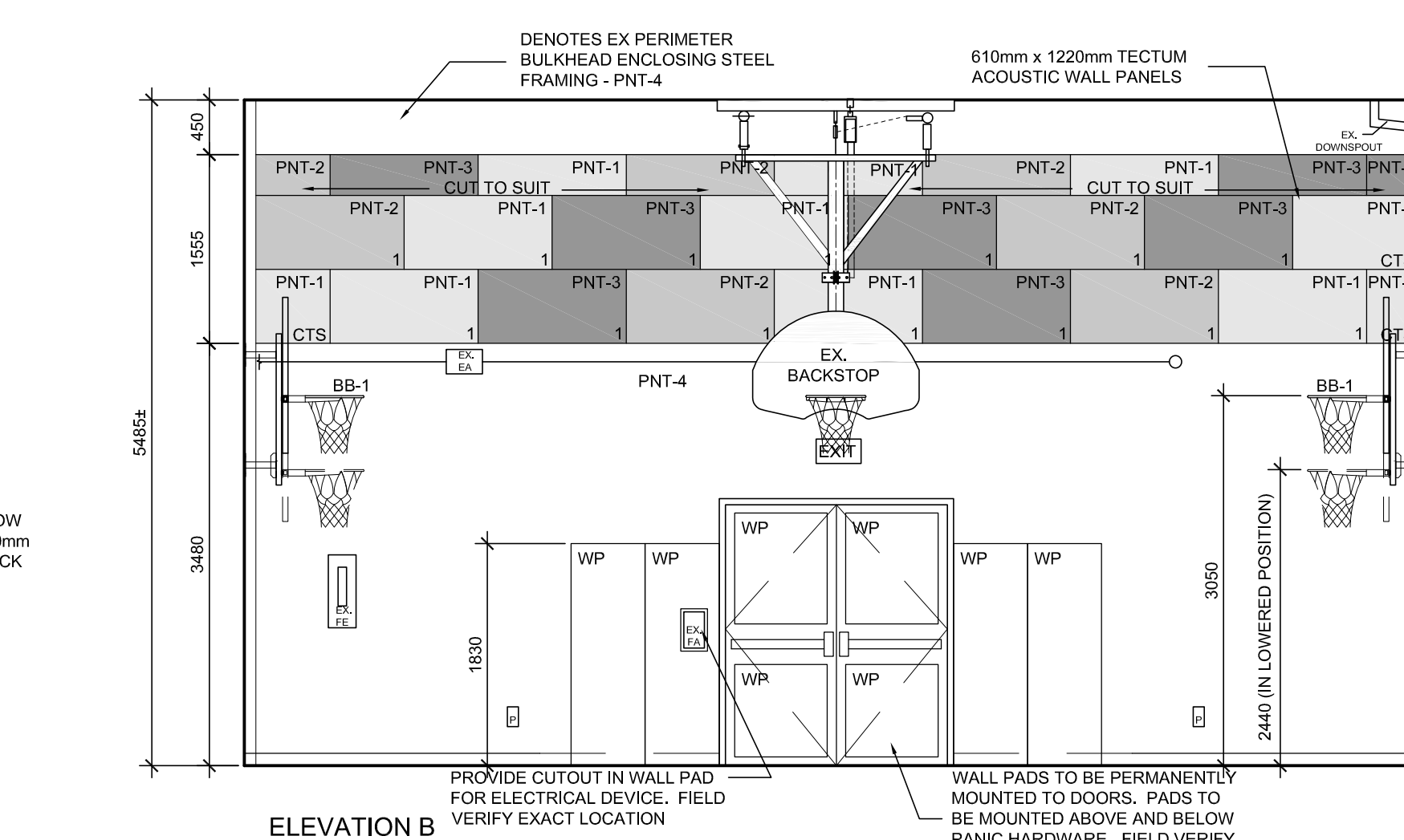
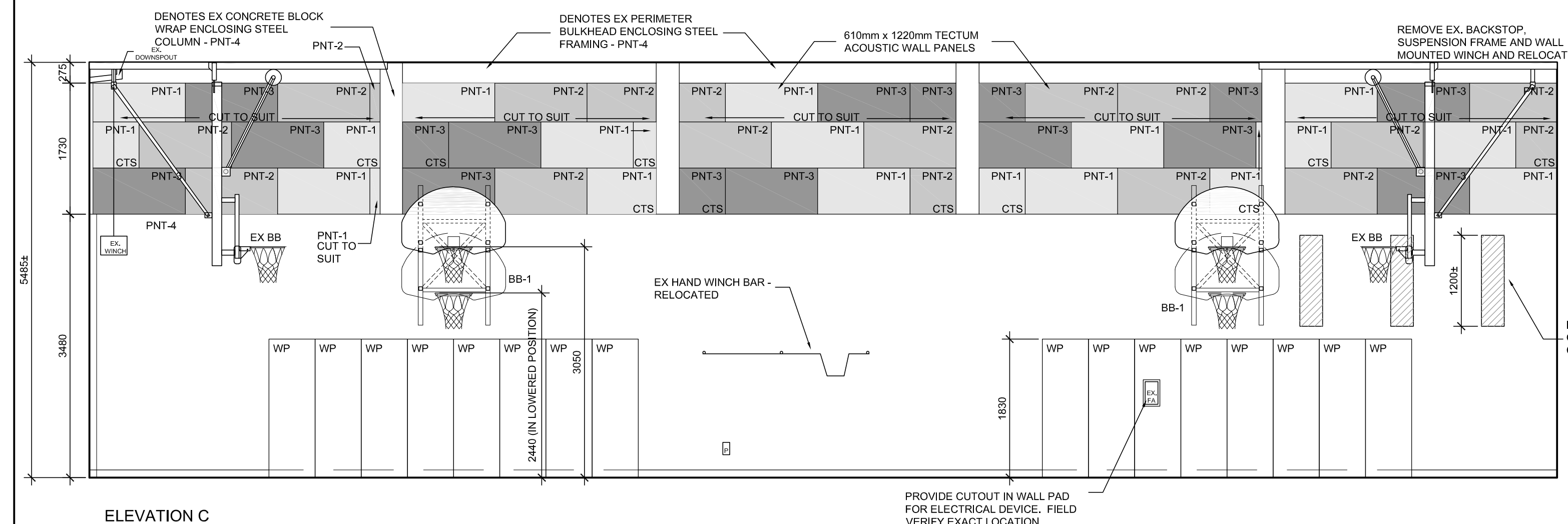
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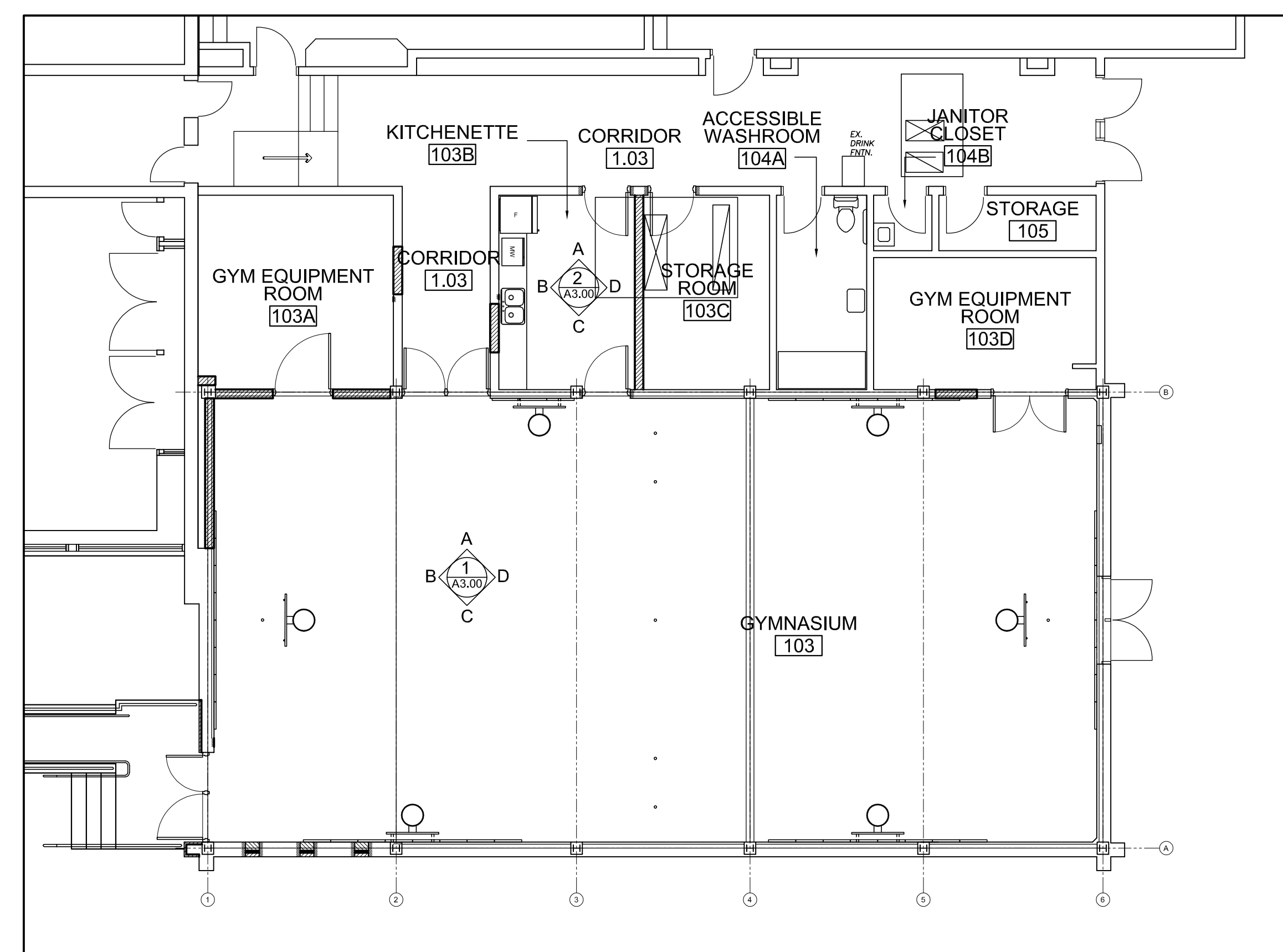
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CHECKED J.G.	
PRINT DATE	02/01/24



ELEVATION E



KEY PLAN
SCALE: NTS



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

ABBREVIATION LEGEND

APPROX	APPROXIMATE
C/W	COMPLETE WITH
EX	EXISTING
FIN	FINISHED
O/C	PN CENTER
T/O	TOP OF
TYP	TYPICAL
U/S	UNDERSIDE
V/B	VAPOUR BARRIER
W/	WITH

NO	REVISIONS	DATE
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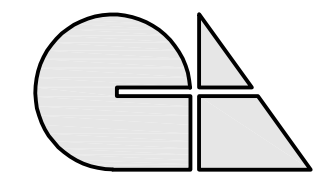
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SECTIONS AND DETAILS

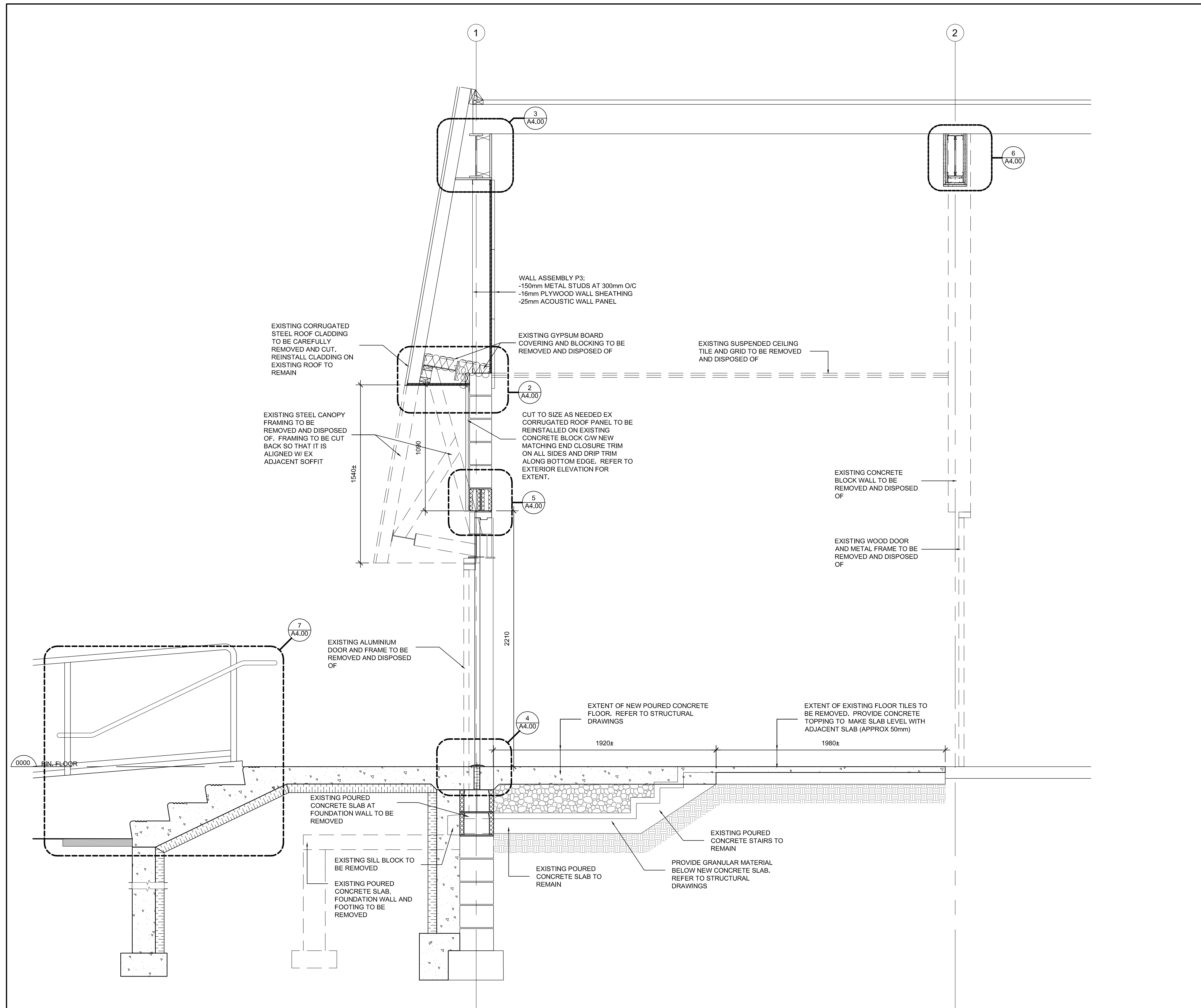
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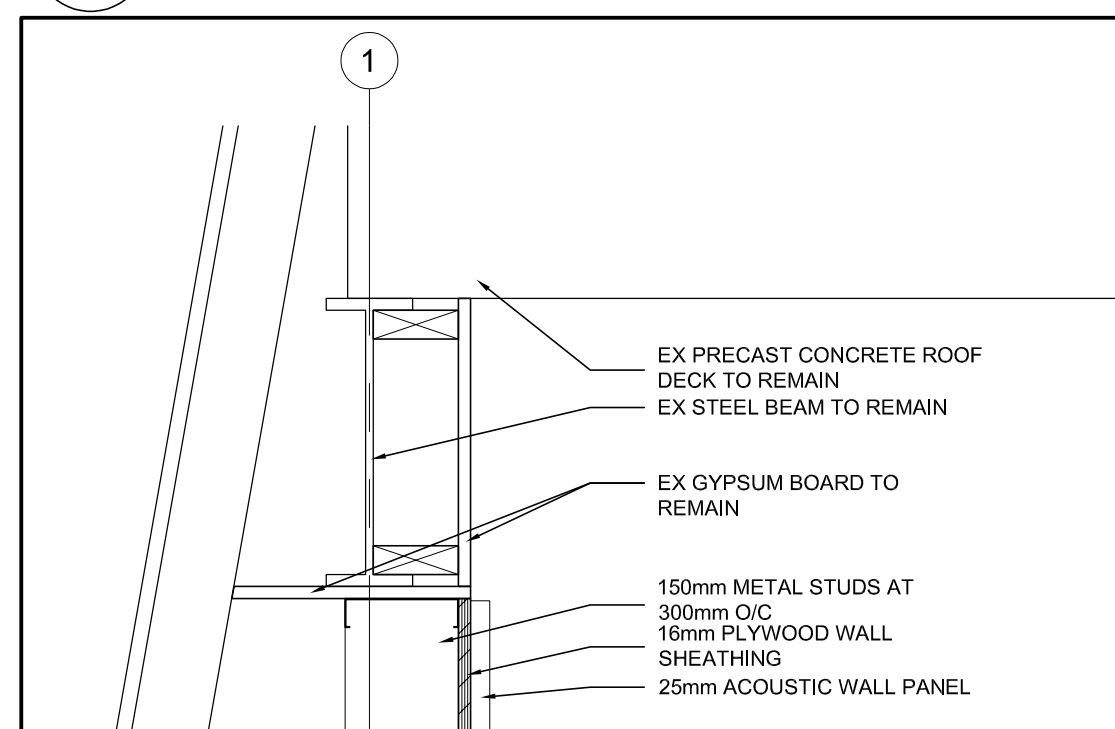
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SCALE: AS NOTED	PROJECT: 2023-11
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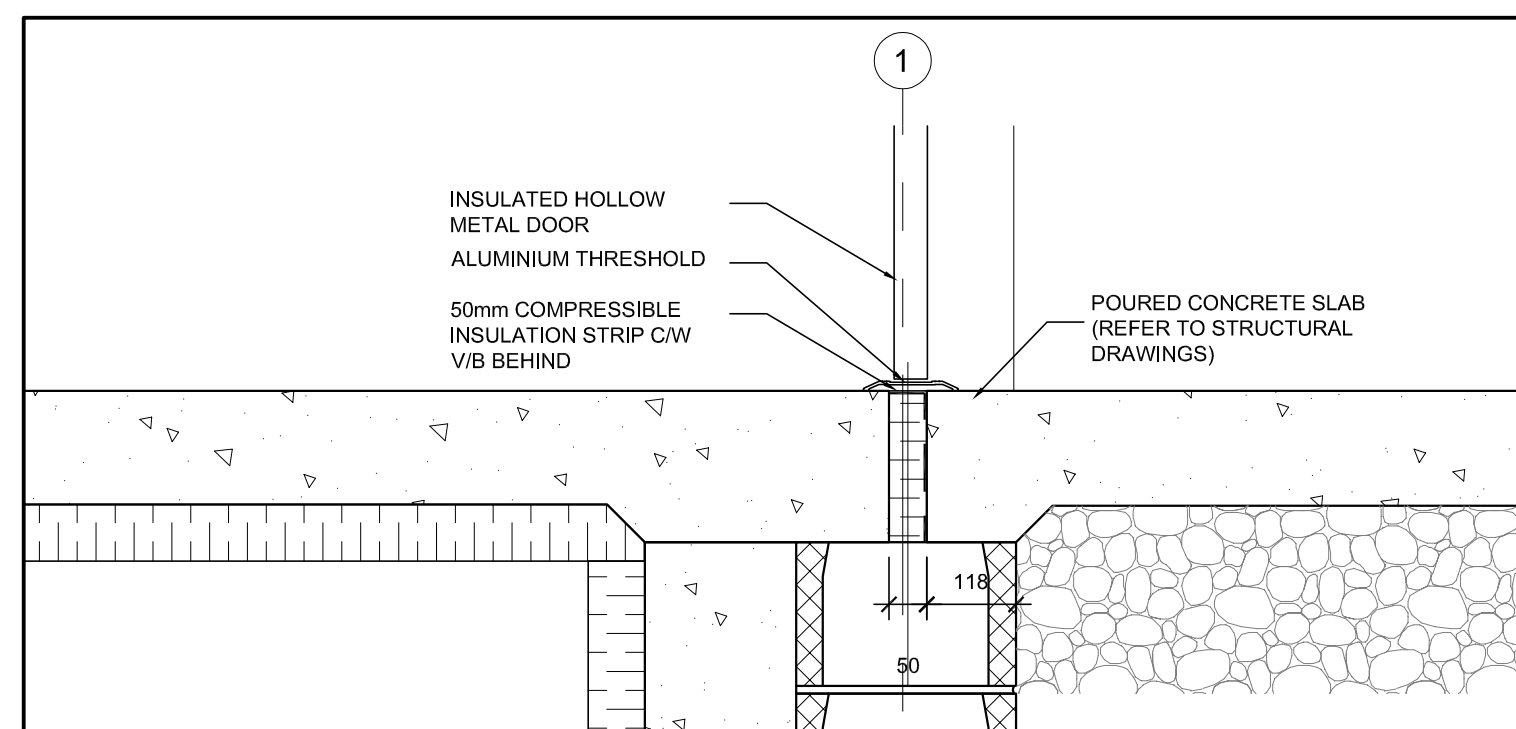
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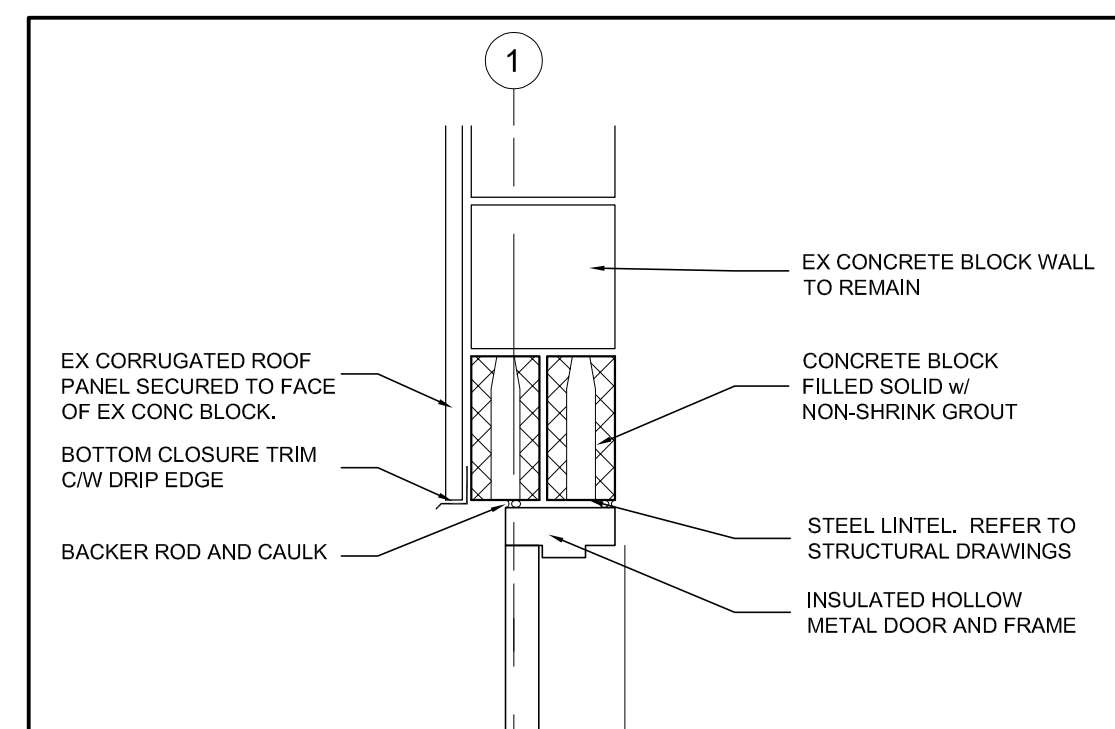
1 SECTION - MODIFIED EXTERIOR DOOR
SCALE: 1:20



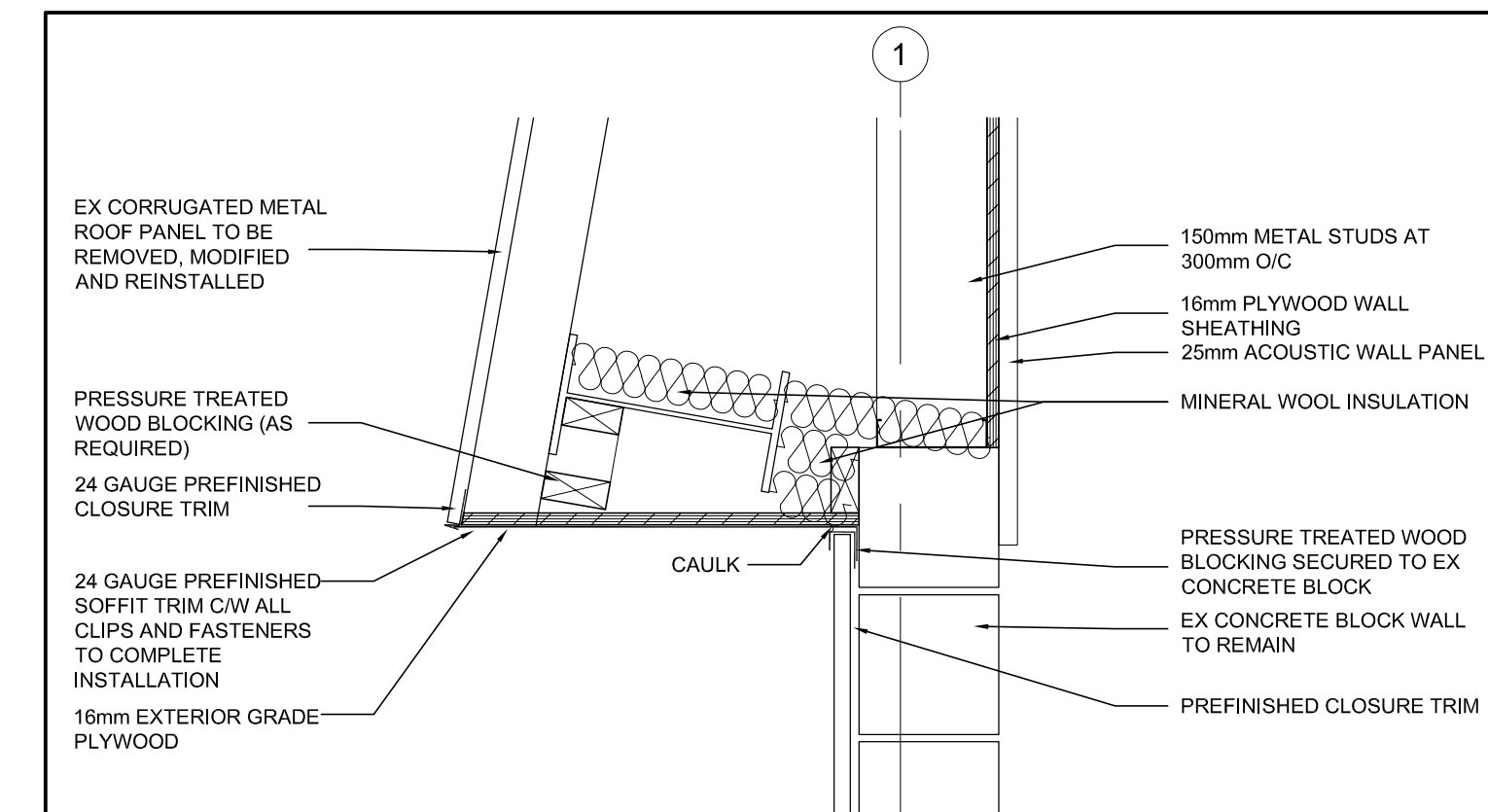
3 DETAIL - EXTERIOR WALL AT EXISTING BEAM
SCALE: 1:10



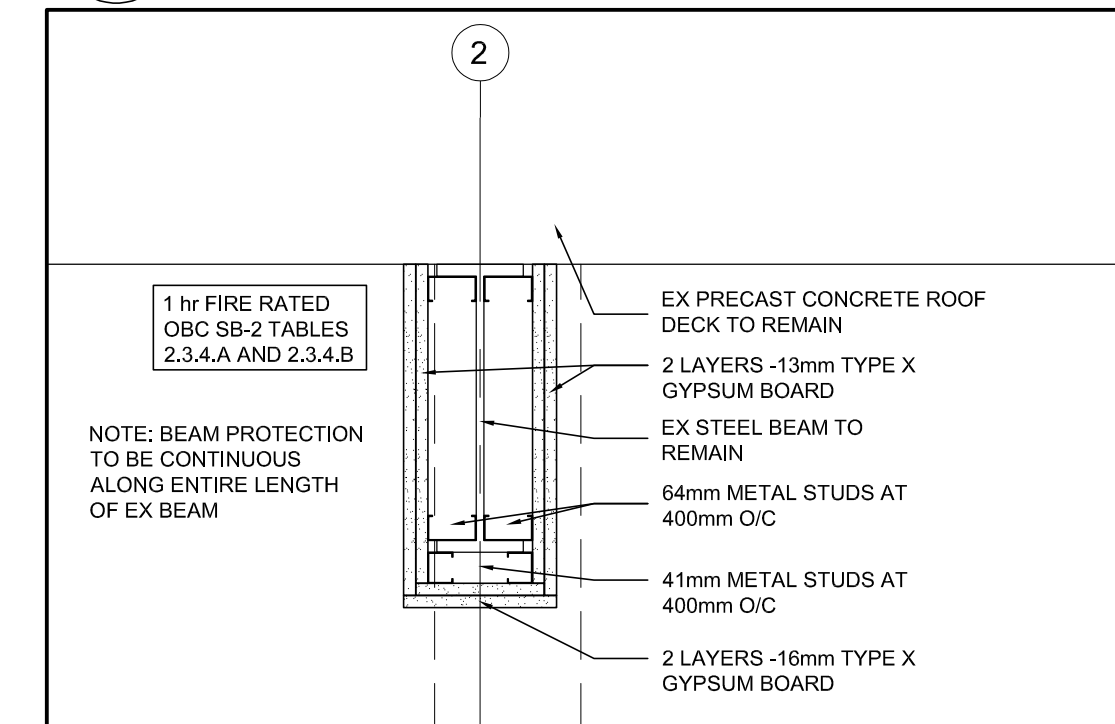
4 DETAIL - DOOR THRESHOLD
SCALE: 1:10



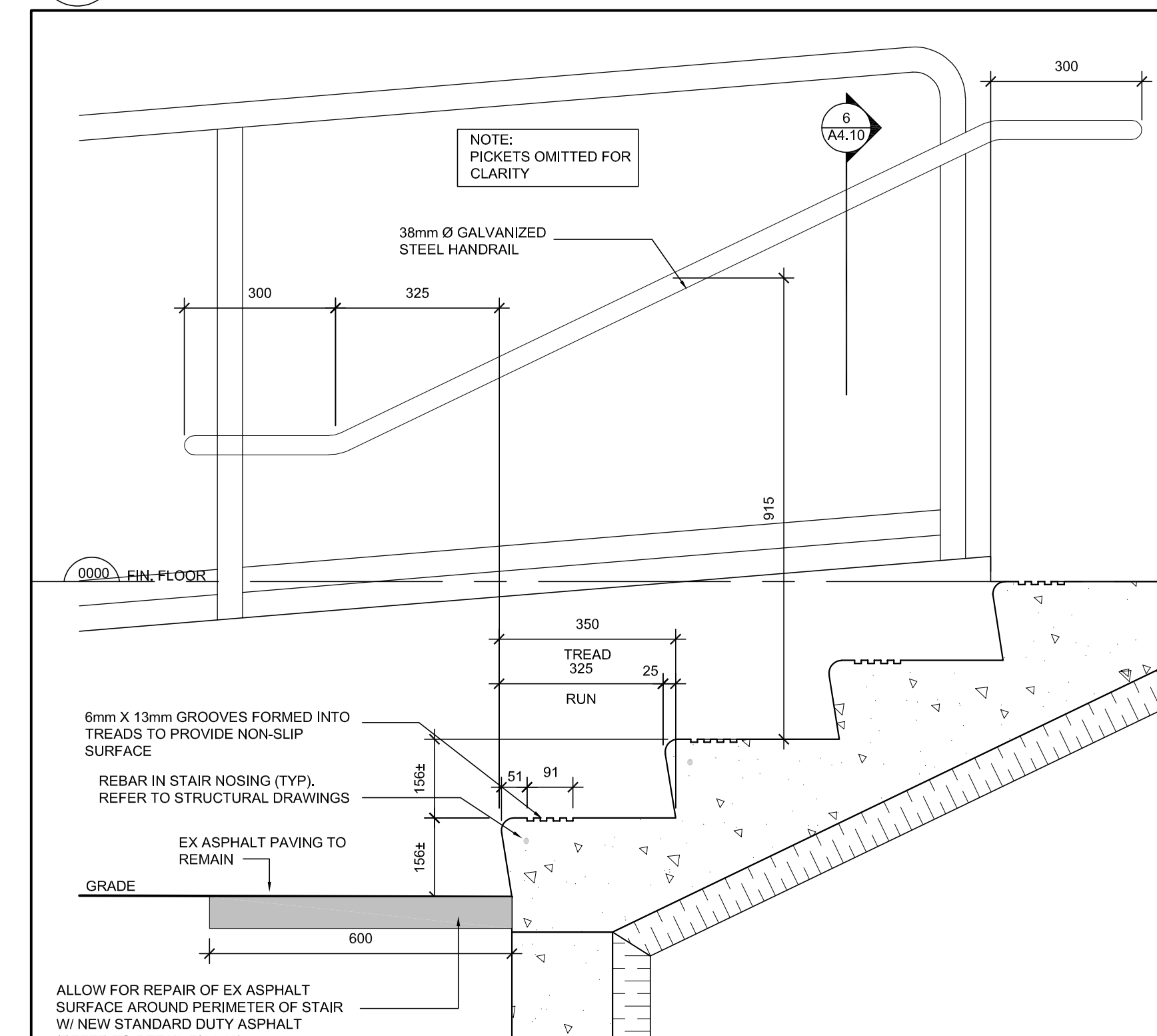
5 DETAIL - DOOR HEAD
SCALE: 1:10



2 DETAIL - MODIFIED SOFFIT
SCALE: 1:10



6 DETAIL - BEAM PROTECTION DETAIL
SCALE: 1:10



7 SECTION - MODIFIED EXTERIOR DOOR
SCALE: 1:20



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

ABBREVIATION LEGEND

APPROX	APPROXIMATE
CONC	CONCRETE
EX	EXISTING
FIN	FINISHED
HORIZ	HORIZONTAL
MAX	MAXIMUM
O/C	ON CENTER
SIM	SIMILAR
TYP	TYPICAL
W/	WITH

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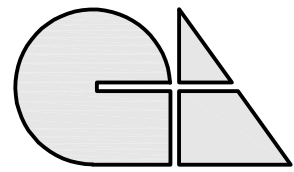
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CONCRETE STAIR AND
RAMP SECTIONS AND
DETAILS

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ARCHITECTS
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SCALE:

AS NOTED

START DATE:

APRIL 2023

DRAWN

DW

CHECKED

J.G.

PRINT DATE

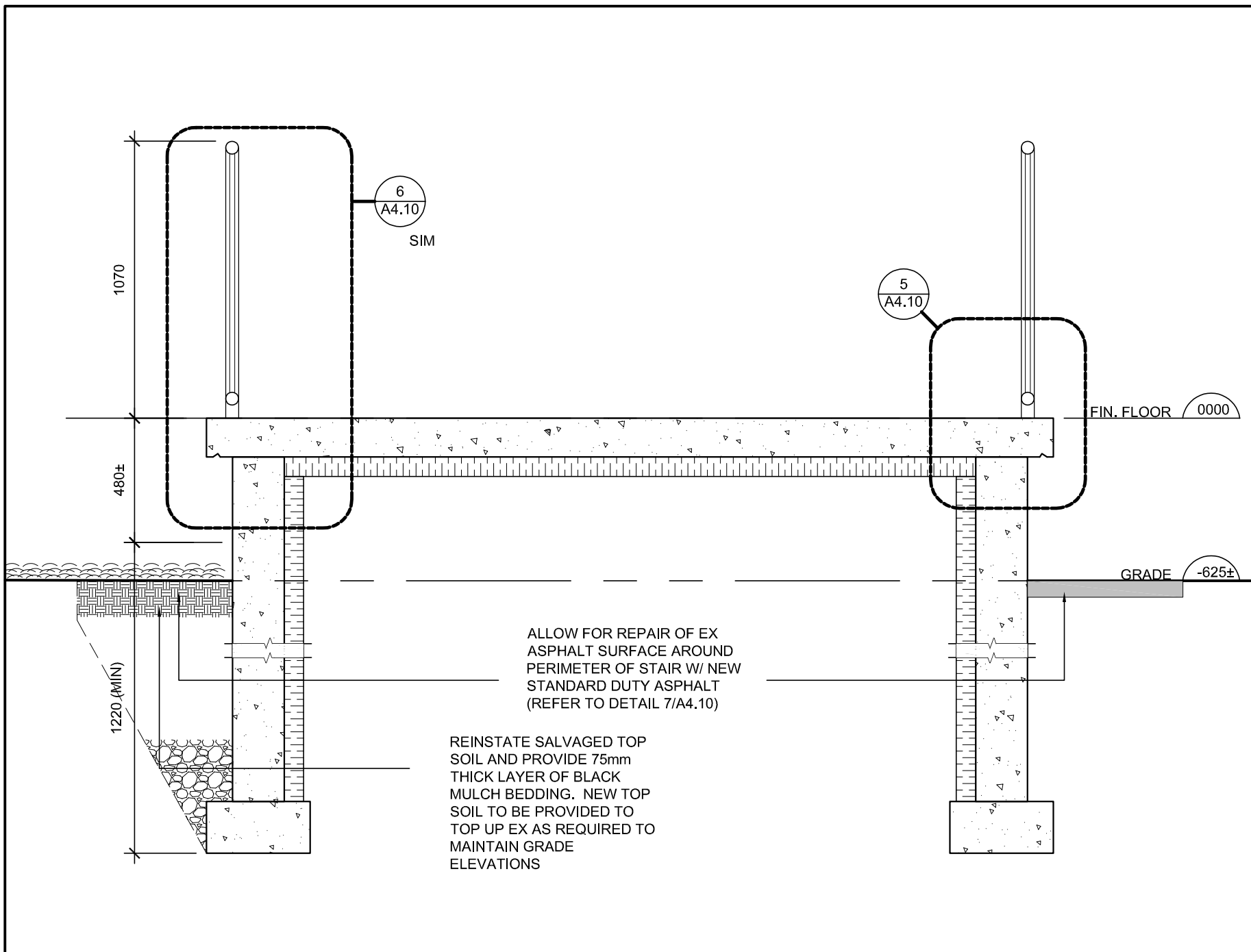
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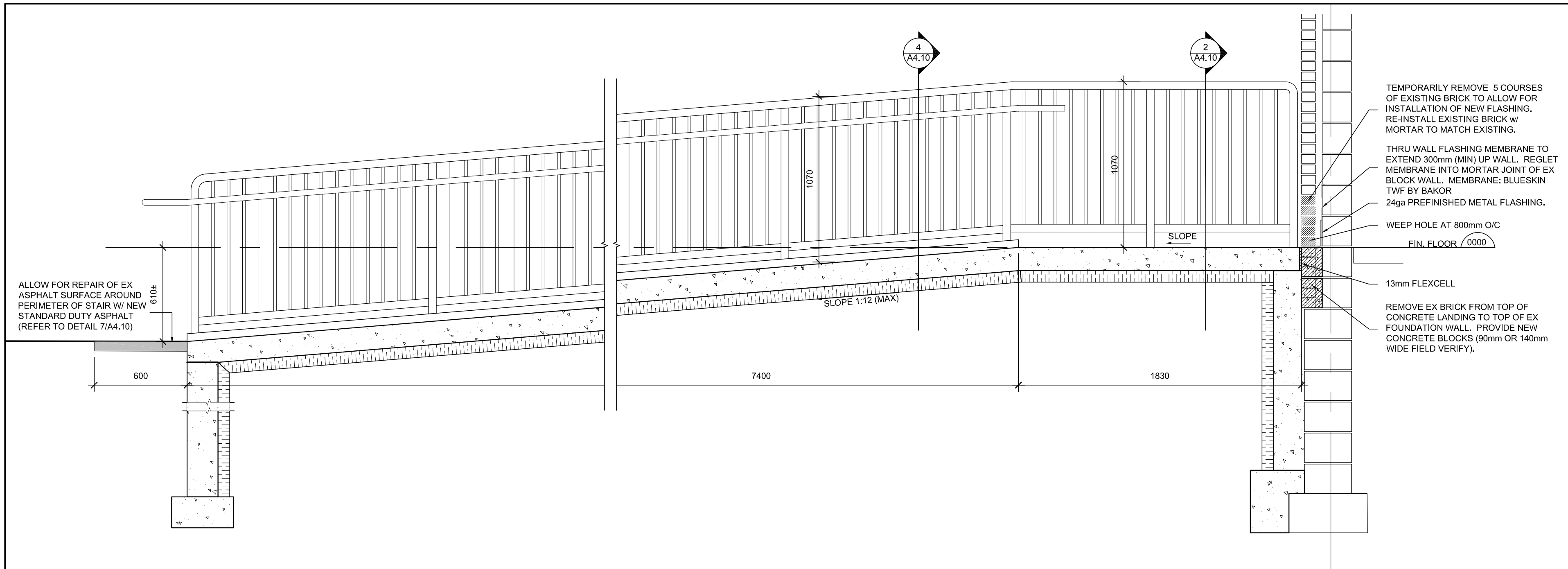
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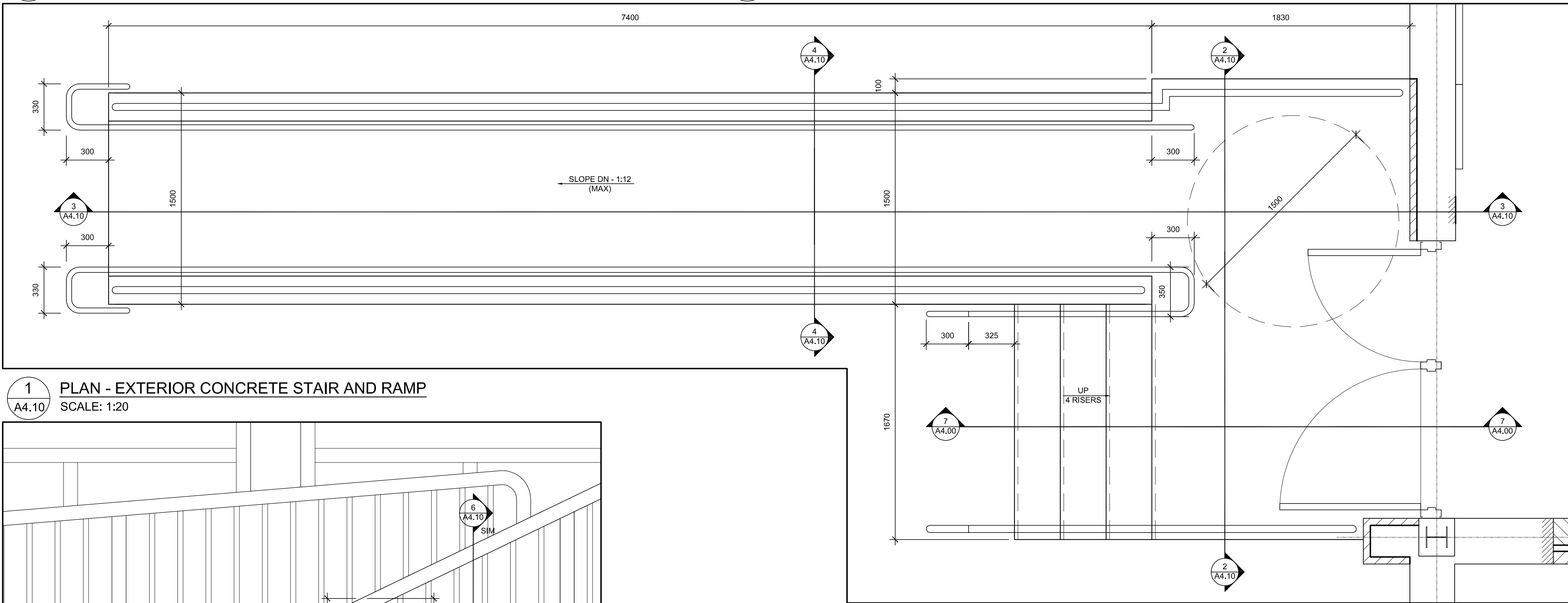
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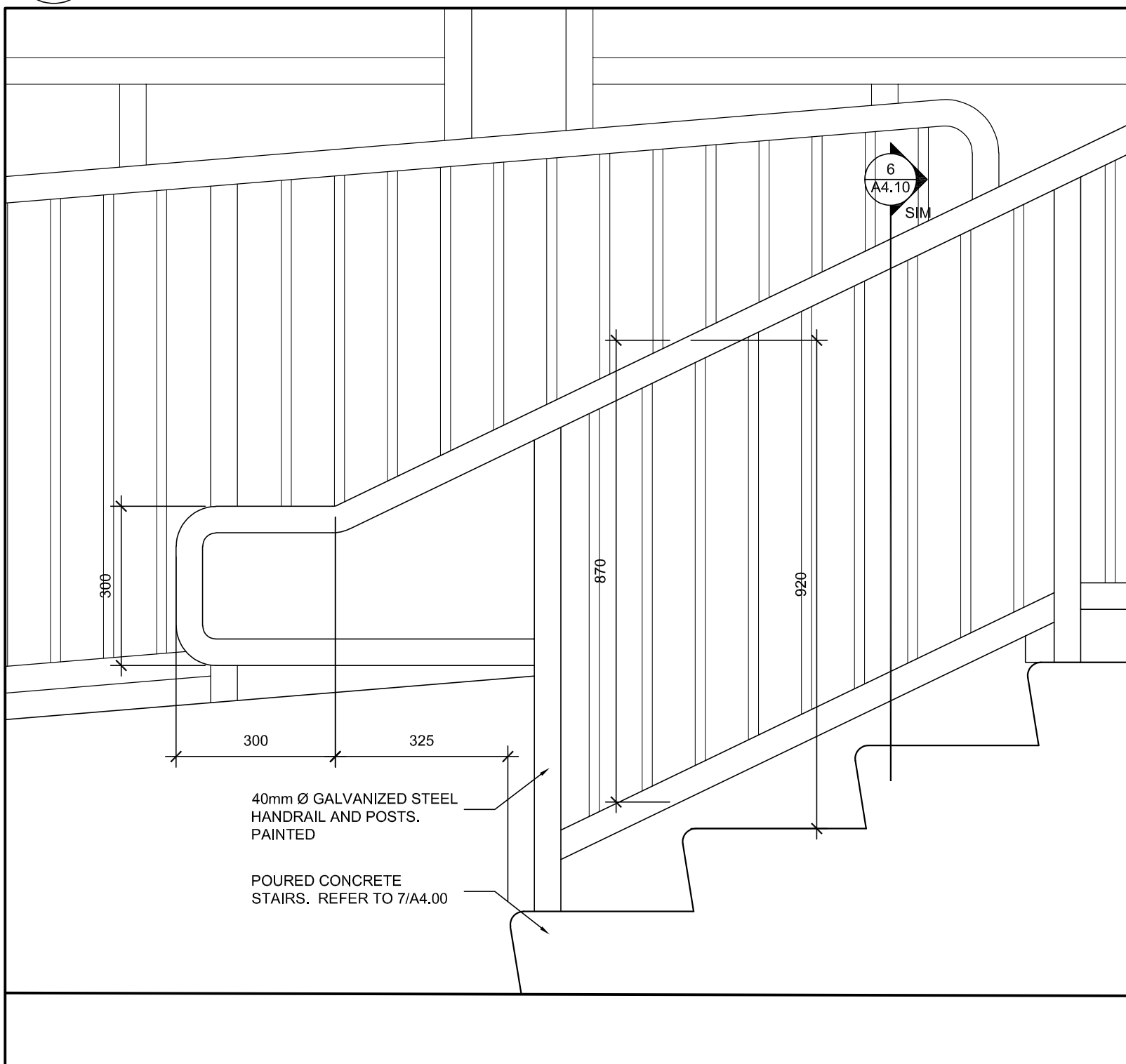
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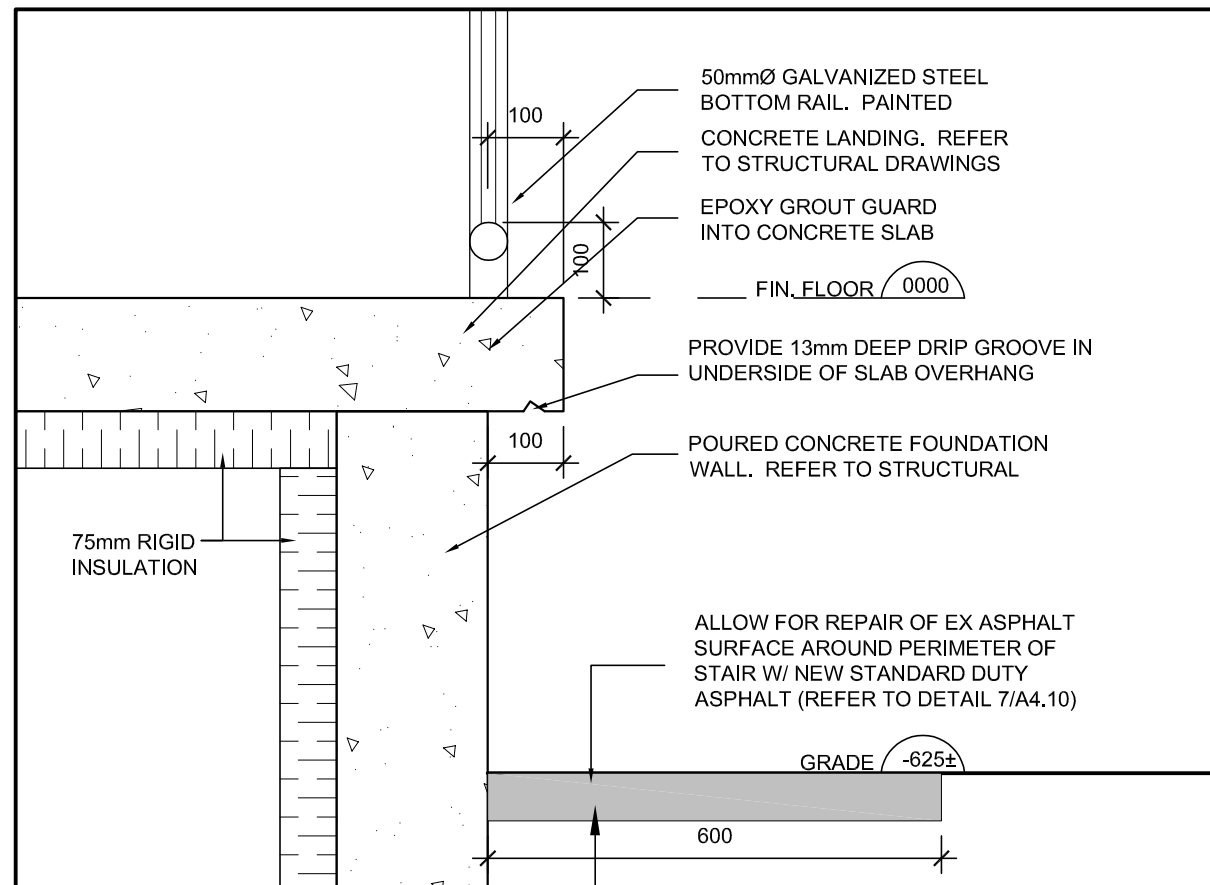
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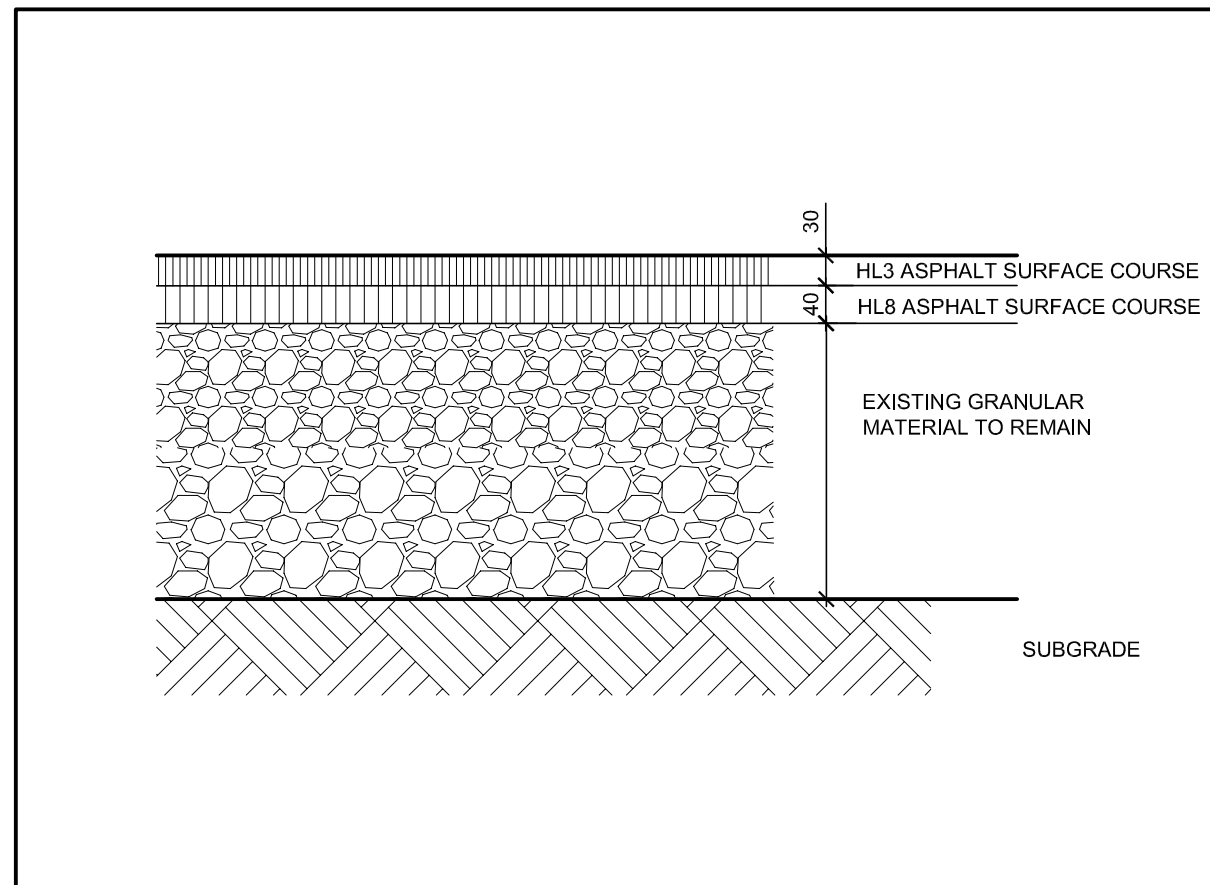
1 PLAN - EXTERIOR CONCRETE STAIR AND RAMP
SCALE: 1:20



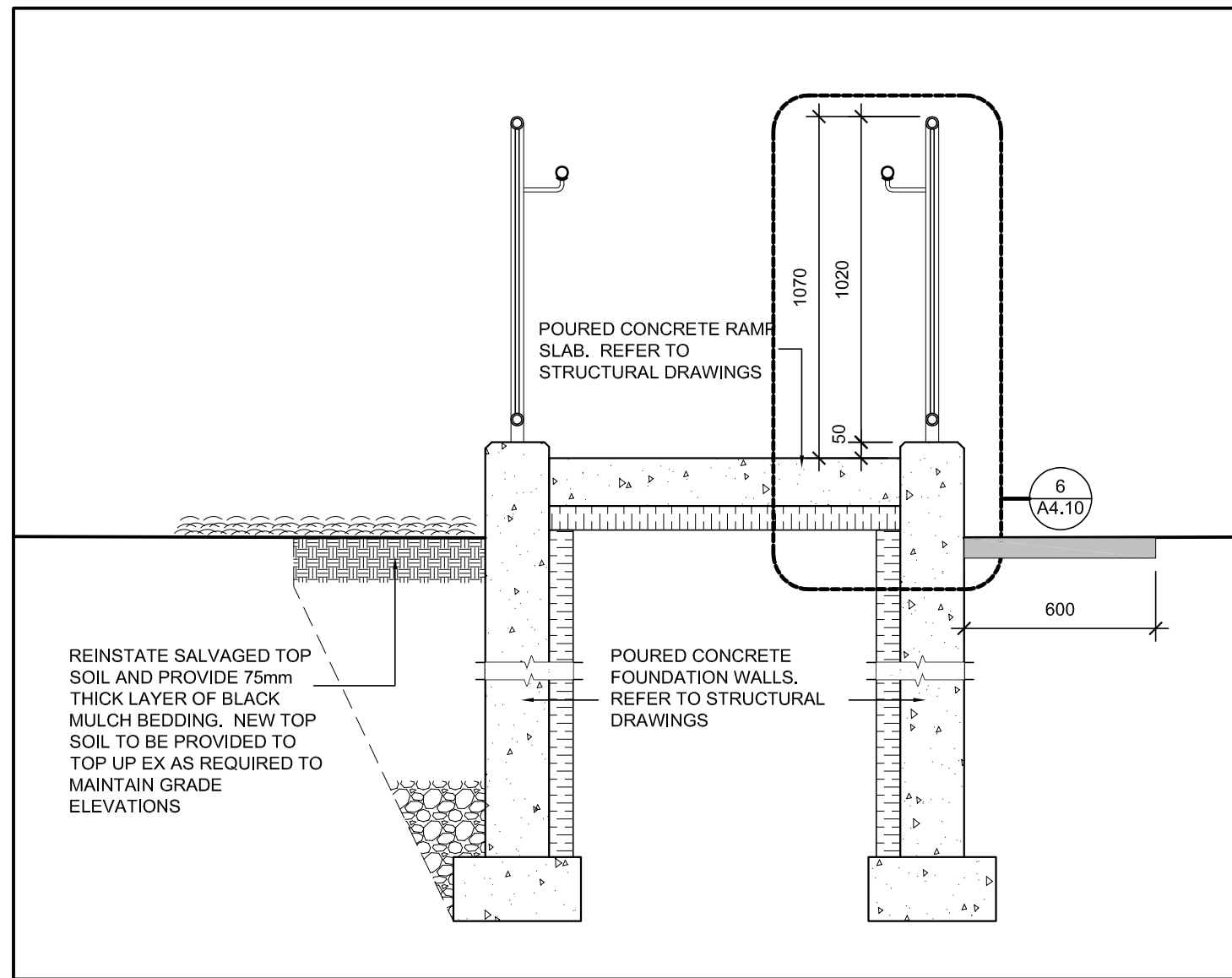
8 DETAIL - STAIR HANDRAIL
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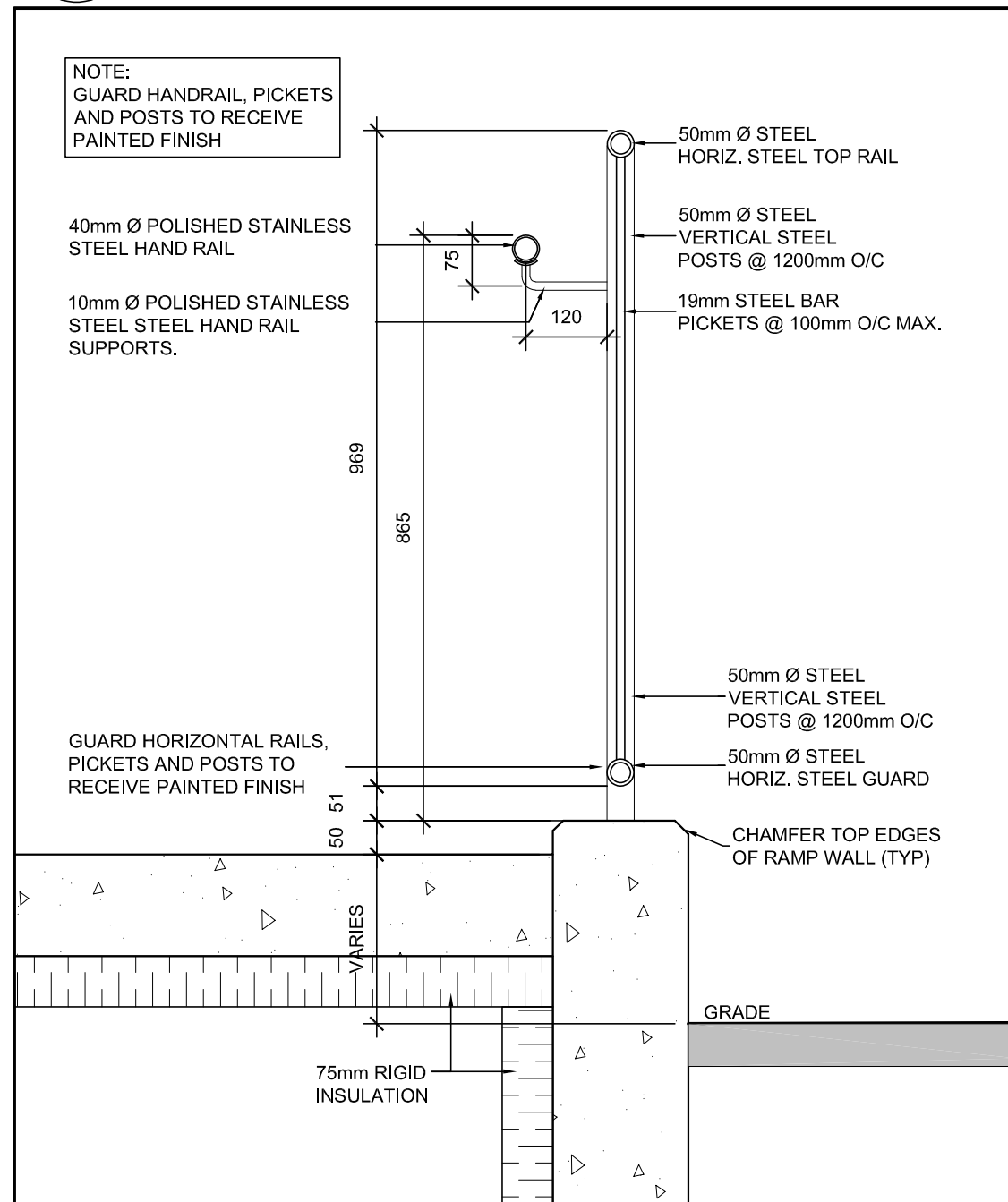
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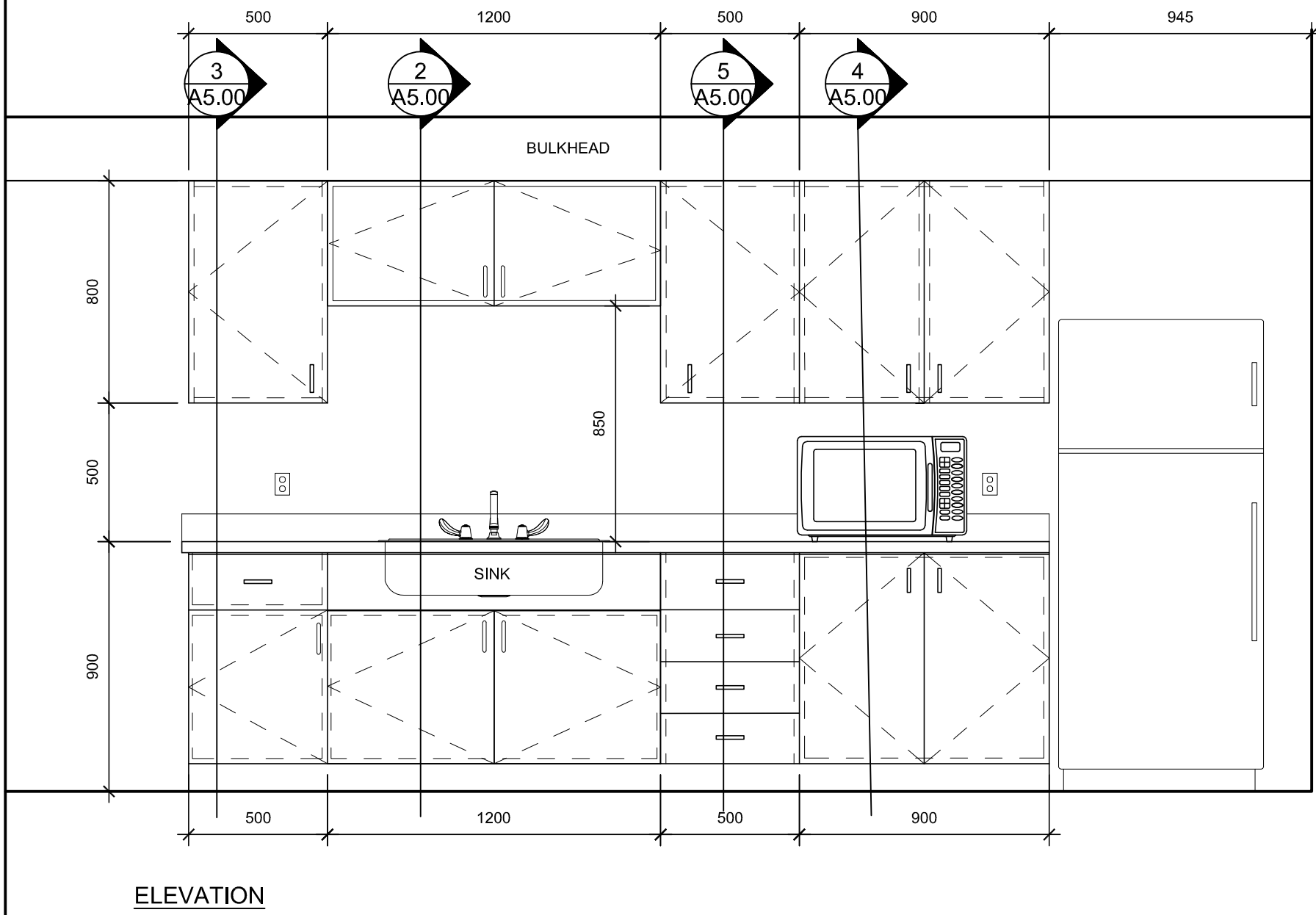
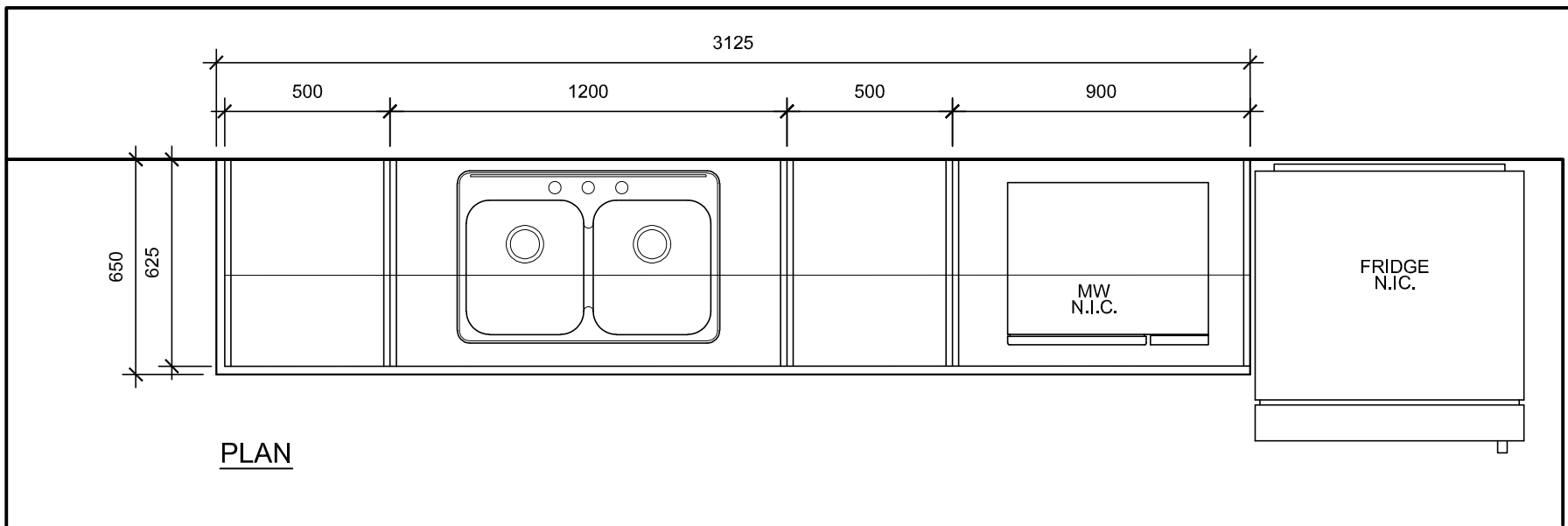
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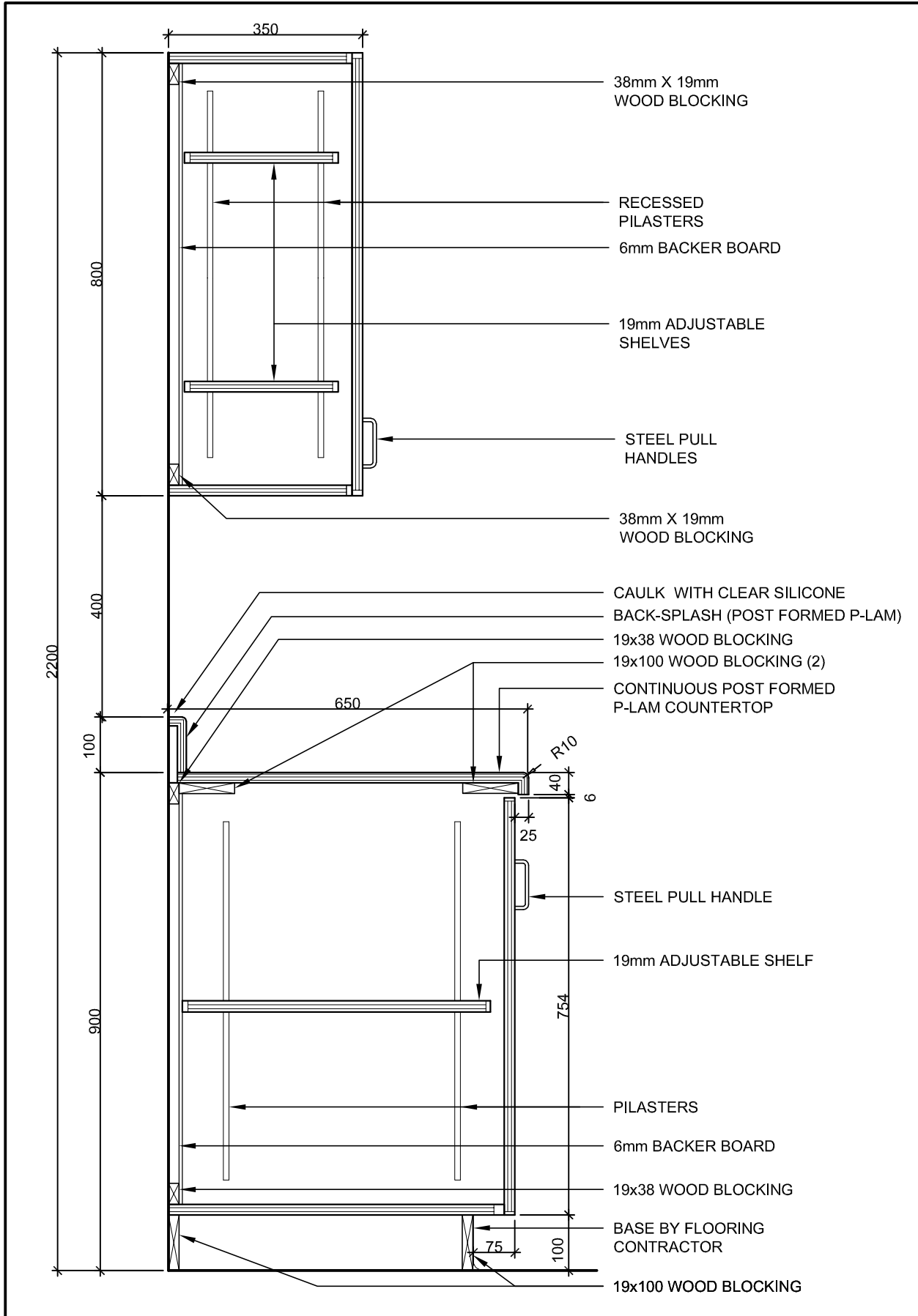
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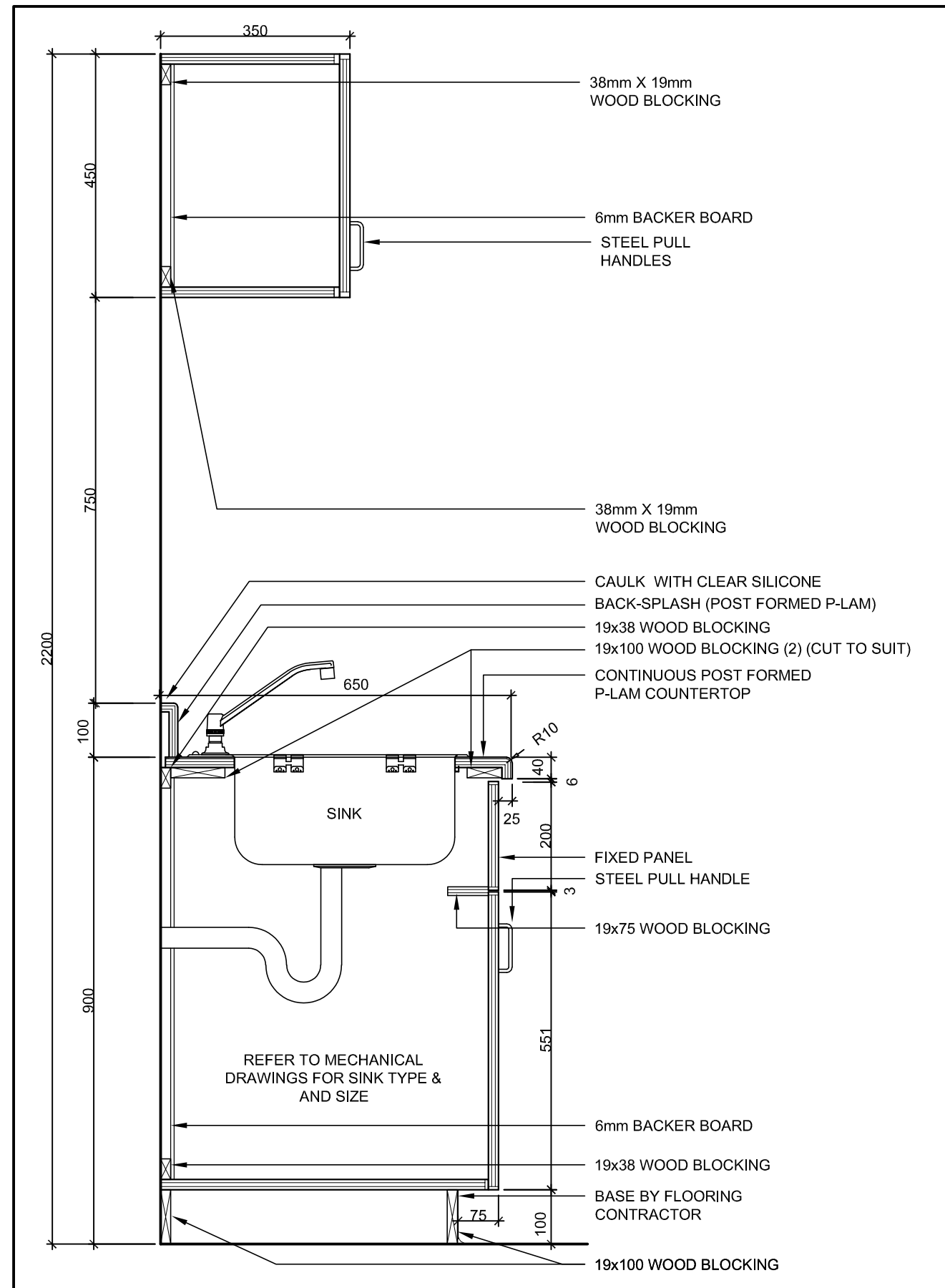
6 DETAIL - RAMP GUARDRAIL
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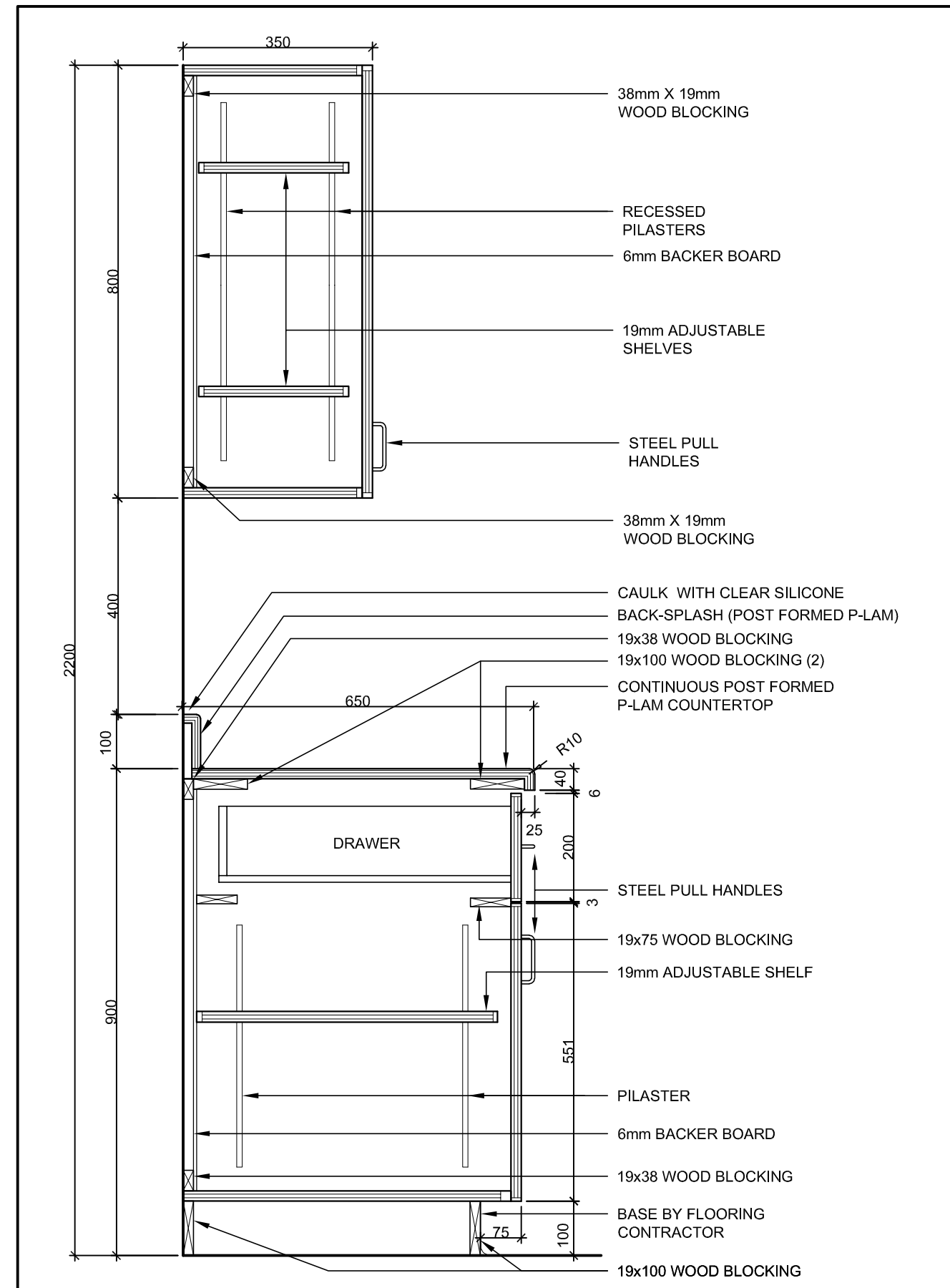
1 DETAIL-KITCHEN COUNTER (MM-1)
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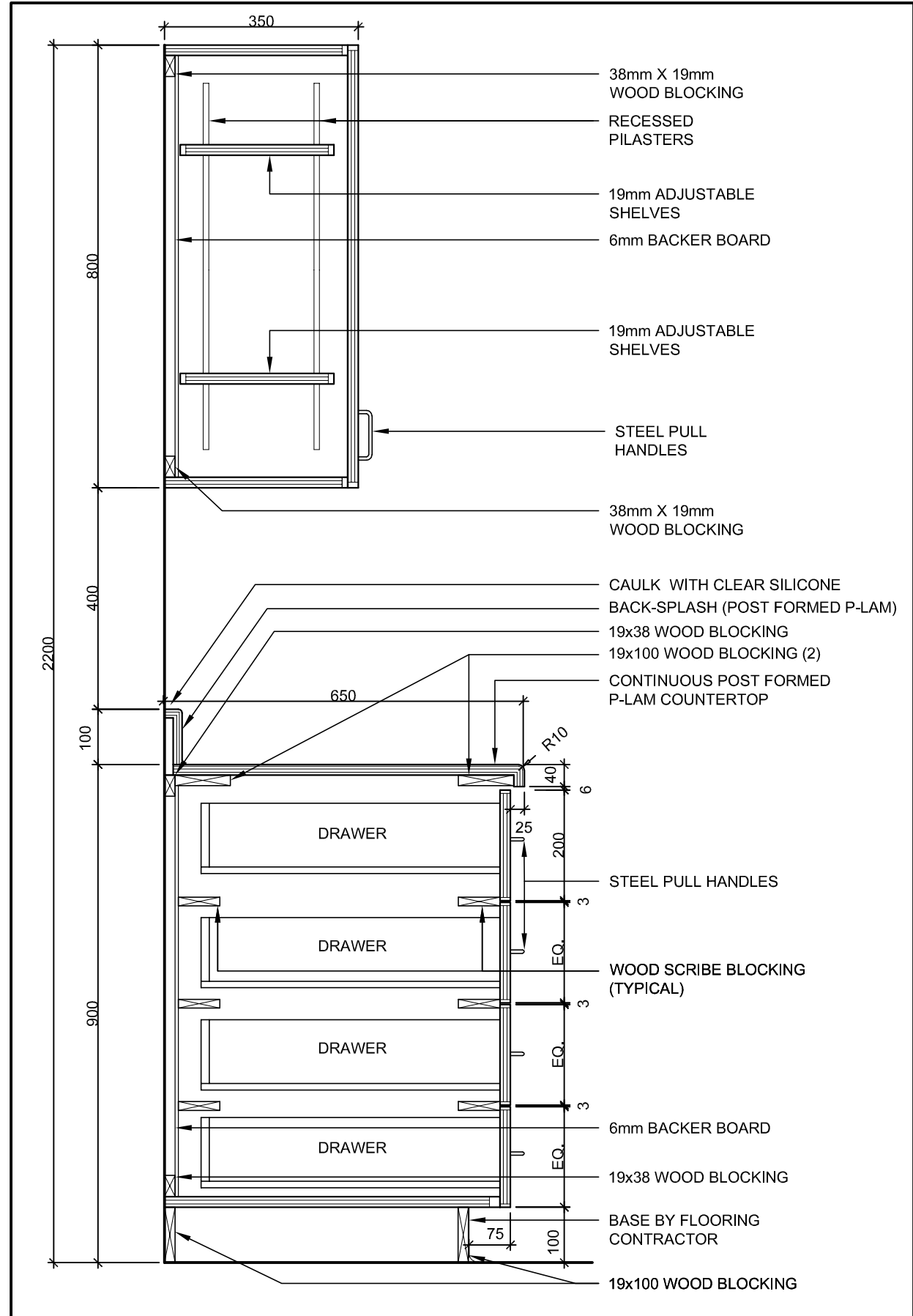
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2 SECTION-MM-1
SCALE: 1:10



3 SECTION-MM-1
SCALE: 1:10



5 SECTION-MM-1
SCALE: 1:10

TYPICAL NOTE:
- 18mm CONSTRUCTION UNLESS OTHERWISE NOTED. REFER TO SPECIFICATIONS FOR TYPE.
- ALL MILLWORK TO BE MELAMINE FINISHED UNLESS OTHERWISE NOTED



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

ABBREVIATION LEGEND

NIC NOT IN CONTRACT
P-LAM PLASTIC LAMINATE

4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR BUILDING PERMIT	2024-01-19
2	ISSUED FOR CLIENT REVIEW	2023-12-22
1	ISSUED FOR CLIENT REVIEW	2023-11-06

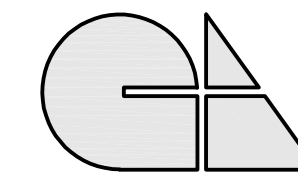
NO	REVISIONS	DATE
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ST. JOSEPH CATHOLIC
ELEMENTARY SCHOOL
GYM AND HVAC
UPGRADES
3650 NETHERBY RD
STEVENSVILLE, ON L0S 1S0

MILLWORK

GRGURIC
ARCHITECTS
INCORPORATED



28 KING STREET EAST, UNIT B
STONEY CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2023-11
START DATE: APRIL 2023	
DRAWN DW	DRAWING: A5.00
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PRINT DATE	02/01/24

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A5.00 Millwork[2023-11].dwg



BB-x	BASKETBALL BACKBOARD
FS	FLOOR SOCKET
EX	EXISTING
TYP	TYPICAL
VB	VOLLEYBALL

4	ISSUED FOR TENDER	2024-01-2
3	ISSUED FOR BUILDING PERMIT	2024-01-1
2	ISSUED FOR CLIENT REVIEW	2023-12-2
1	ISSUED FOR CLIENT REVIEW	2023-11-0

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**ST. JOSEPH CATHOLIC
ELEMENTARY SCHOOL
GYM AND HVAC
UPGRADES**
3650 NETHERBY RD
STEVENSVILLE, ON L0S 1S0

GYMNASIUM COURT LAYOUTS

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ARCHITECTS
INCORPORATED



SCALE: AS NOTED	PROJECT:
START DATE: APRIL 2023	2023-11
DRAWN DW	DRAWING:
CHECKED J.G.	A6.00
PRINT DATE	02/01/24



DOOR / SCREEN SCHEDULE

ROOM NO	ROOM NAME	DOOR NO.	DOOR / SCREEN				FRAME									REMARKS
			WIDTH	HEIGHT	THK	FIRE	TYPE	MAT'L	FIN.	GLASS	TYPE	MAT'L	FIN.	GLASS		
GROUND FLOOR																
103	GYMNASIUM	103 A	2 x 900	2150	44	3/4 hr	2	HM	PAINT	WG	C	HM	PAINT	TG	CL, PH; DOOR AND FRAME TO REUSE EX OPENING (FV)	
103	GYMNASIUM	103 B	EX	EX	EX	EX	EX	EX	PAINT	EX	EX	EX	PAINT	EX	EX HM DOOR AND FRAME TO BE REPAINTED	
103	GYMNASIUM	103 C	1000	2150	44	-	1	HM	PAINT	-	B	HM	PAINT	-	WS, TH, CH, INS, PH, CL:WIDTH OF FRAME TO MATCH EX OPENING (FV)	
103	GYMNASIUM	103 D	800	2150	44	-	1	HM	PAINT	-	B	HM	PAINT	-	WS, TH, CH, INS, PH, CL:WIDTH OF FRAME TO MATCH EX OPENING (FV)	
103A	GYM. EQUIP. ROOM	103A A	1220	2150	44	3/4 hr	1	HM	PAINT	-	A	HM	PAINT	-	CL	
103B	KITCHENNETTE	103B A	950	2150	44	3/4 hr(?)	2	HM	PAINT	WG	A	HM	PAINT	-	CL	
103B	KITCHENNETTE	103B B	950	2150	44	3/4 hr	1	HM	PAINT	-	A	HM	PAINT	-	CL	
103C	STORAGE ROOM	103C A	950	2150	44	3/4 hr	1	HM	PAINT	-	A	HM	PAINT	-	CL	
103D	EQUIP. ROOM	103D A	2 X 800	2150	44	3/4 hr	1	HM	PAINT	-	A	HM	PAINT	-	CL; DOOR AND FRAME TO REUSE EX OPENING (FV)	

DOOR/SCREEN SCHEDULE NOTES

1. GENERAL CONTRACTOR TO FIELD VERIFY ALL DOOR & FRAME / SCREEN QUANTITIES & DIMENSIONS PRIOR TO FABRICATION
2. GENERAL CONTRACTOR TO CO-ORDINATE LOCATION & INSTALLATION OF PUSH BUTTON / AUTOMATIC DOOR OPERATIONS AND ALL OTHER RELATED TRADES, TO BE SUPPLIED BY GENERAL CONTRACTOR & INSTALLED BY ELECTRICAL
3. REFER TO DOOR SCHEDULE FOR FIRE RESISTANCE RATINGS FOR DOOR, FRAMES & GLAZED FRAMES / SCREENS.
4. ALL HM. DOORS & FRAMES TO BE PAINTED.
5. REFER TO PLANS / DETAILS & WALL SECTIONS FOR LOCATIONS OF REQUIRED STEEL LINTELS / ANGLES (BY GENERAL CONTRACTOR) AND ANY FORMED ALUMINUM CLOSURE ANGLES OR SUPPORTS FOR DOOR / FRAMES (BY DOOR / FRAME INSTALLER)
6. AT ALL EXTERIOR DOORS PROVIDE CONTINUOUS SEALANT & BACKER ROD AROUND PERIMETER EDGES OF FRAME (TYP. FOR BOTH EXTERIOR & INTERIOR SIDES)
7. REFER TO DOOR HARDWARE SCHEDULE FOR ALL HOLD OPEN DEVICES, STRIKES, SECURITY DOOR OPENERS, CLOSERS, PANIC HARDWARE, OVERHEAD STOPS, PUSH & KICK PLATES, ETC. & ANY OTHER DOOR HARDWARE REQUIREMENTS.

DOOR SCHEDULE LEGEND

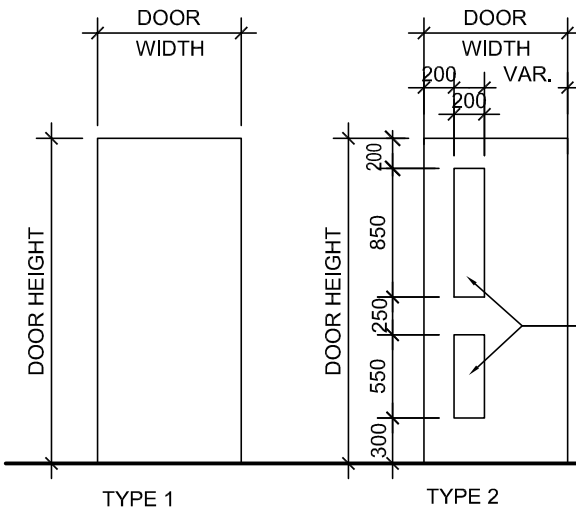
ACT-x	ACOUSTIC CEILING TILE	PH	PANIC HARDWARE
ADO	AUTOMATIC DOOR OPERATOR	PT	PORCELAIN TILE
AFF	ABOVE FINISHED FLOOR	RB	RUBBER BASE
ANOD	ANODIZED	RM	REMOVEABLE MULLION
CH	CONTINUOUS HINGE	SCWD	SOLID CORE WOOD DOOR
CL	CLOSER	SG-xx	SPANDREL GLASS
CLG	CEILING	STRUCT	STRUCTURE
CONC	CONCRETE	SSJ	STRUCTURAL SILICONE JOINT
CWT	CERAMIC WALL TILE	TG	TEMPERED GLASS
DGS	DOUBLE GLAZED SEALED INSULATING GLASS UNITS	TH	THRESHOLD
DS	DOOR SWEEP	THK	THICKNESS
ES	ELECTRIC STRIKE	UNO	UNLESS NOTED OTHERWISE
EX	EXISTING	VCT	VINYL COMPOSITE TILE
EXP	EXPOSED	VAR	VARIES
FG	FIRE RATED GLASS	WD	WOOD
HDO	HANDICAP DOOR OPERATOR	WS	WEATHER STRIPPING
HPB	HANDICAPPED PUSH BUTTON	WI	WITH
HM	HOLLOW METAL		
INS	THERMALLY INSULATED DOOR / FRAME		
LVT	LUXURY VINYL TILE		
MTL	METAL		

#

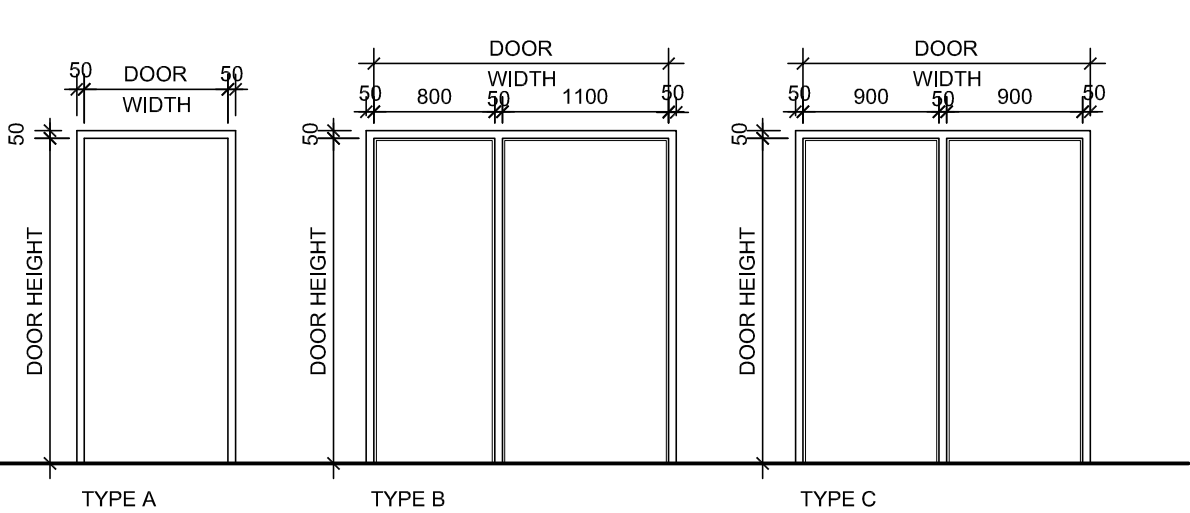
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DENOTES DOOR NUMBER DESIGNATION TAG ON PLAN

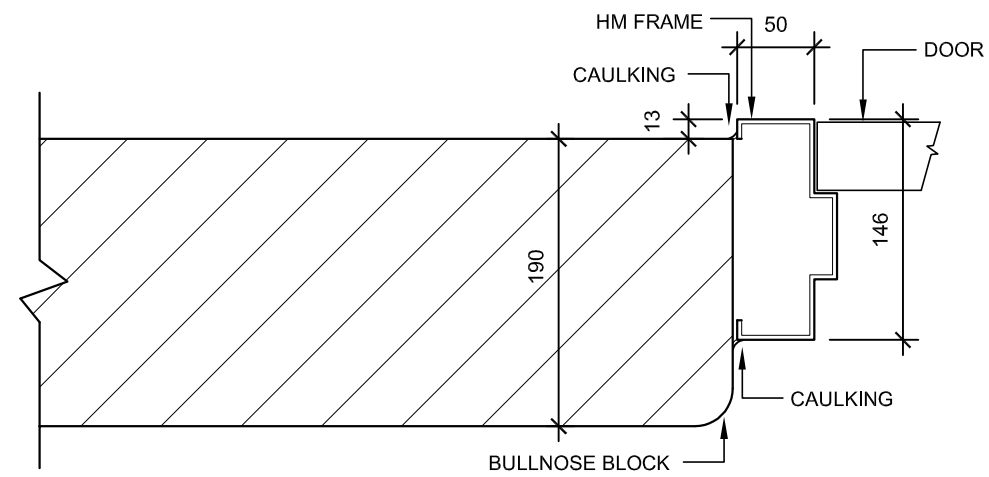
DOOR TYPES



FRAME TYPES



NOTE:
FOR REPLACING NEW DOORS - PLEASE VERIFY WIDTH AND HEIGHT ON SITE.



TYPICAL HM FRAME PLAN DETAILS

ROOM FINISH SCHEDULE

RM. NO.	ROOM NAME	FLOOR FINISH		WALLS		CEILING			REMARKS
		FINISH	BASE	MAT'L	FINISH	MAT'L	FINISH	HEIGHT	
GROUND FLOOR									
103	GYMNASIUM	SP FLR	RB	EX CONC. BLOCK GYP BOARD	PAINT PAINT	EX CONC PANELS	PAINT	5450 (EX)	
103A	GYM EQUIPMENT ROOM	EX VCT	RB	EX CONC. BLOCK CONC BLOCK	PAINT PAINT	GYP. BOARD	PAINT	2440	
103B	KITCHENETTE	VCT	RB	EX CONC. BLOCK CONC BLOCK	PAINT PAINT	GYP. BOARD	PAINT	2440	
103C	STORAGE	VCT	RB	EX CONC. BLOCK CONC BLOCK	PAINT	EX GYP. BOARD GYP BOARD	PAINT	2440 (EX)	
103D	GYM EQUIPMENT ROOM	VCT	RB	EX CONC. BLOCK	PAINT	GYP. BOARD	PAINT	2425 (EX)	
1.03	CORRIDOR	EX	EX	EX CONC. BLOCK	EX	ACT-1	—	2400 (EX)	NEW CEILING HEIGHT TO MATCH EXISTING
1.03A	CORRIDOR	EX PT	EX RB	EX CONC. BLOCK	PAINT	EX ACT	—	2400 (EX)	PAINT NEW INFILL WALLS ONLY

ROOM FINISH SCHEDULE NOTES

1. SCHEDULES ARE TO BE READ IN CONJUNCTION WITH ALL DRAWINGS AND SPECIFICATIONS.
2. PAINT ALL EXPOSED MISCELLANEOUS METALS AND SERVICES (E.G. DUCTS, CONDUITS, PIPING, ETC.) WHERE CEILINGS AND WALLS ARE SCHEDULED TO BE PAINTED.
3. EXISTING WALLS SHALL BE CHASED AND OPENINGS CREATED AS REQUIRED TO EXECUTE THE WORK.
4. MAKE GOOD ALL MATERIALS AND FINISHED WHERE DISTURBED AND ALTERATIONS OCCUR. REFER TO MECHANICAL AND ELECTRICAL DOCUMENTS FOR FULL EXTENT OF WORK REQUIRED. NOTE THAT MAKING GOOD INCLUDES WORK ASSOCIATED WITH THE INSTALLATION OF SERVICES SHOWN ON DRAWINGS.



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

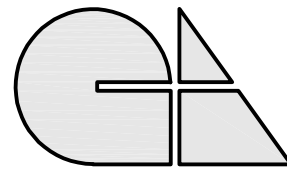
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1	ISSUED FOR CLIENT REVIEW	2023-11-06

NO	REVISIONS	DATE
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ST. JOSEPH CATHOLIC
ELEMENTARY SCHOOL
GYM AND HVAC
UPGRADES
3650 NETHERBY RD
STEVENSVILLE, ON L0S 1S0

ROOM FINISH AND DOOR
SCHEDULES

GRGURIC
ARCHITECTS
INCORPORATED



28 KING STREET EAST, UNIT B
STONE CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2023-11
START DATE: APRIL 2023	
DRAWN DW	DRAWING: A8.00
CHECKED J.G.	
PRINT DATE	02/01/24

GENERAL NOTES

1. THESE DOCUMENTS ARE TO BE USED ONLY BY THE PARTY WITH WHOM OFE HAS ENTERED INTO A CONTRACT.
2. THE USE OF THESE DRAWINGS IS LIMITED TO THAT IDENTIFIED IN THE REVISION COLUMN.
3. THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE LATEST EDITION INCLUDING ALL THE LATEST STANDARDS REFERENCED THEREIN, AND ANY APPLICABLE ACTS OF AUTHORITY. CONSTRUCTION PRACTICES SHALL BE ACCORDING TO THE SAME, USE THE LATEST VERSIONS OF STANDARDS AND CODES LISTED BELOW.
4. NO DOT SCALE THESE DRAWINGS. ERRORS MADE BECAUSE OF SCALING THESE DRAWINGS ARE RESPONSIBILITY OF THE PARTY WHO USED THE DRAWINGS.
5. WHERE DISCREPANCIES EXIST, THE MOST STRINGENT SHALL PREVAIL, NOTIFY THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
6. STRUCTURAL DRAWINGS TO BE USED TOGETHER WITH ALL OTHER SPECIFICATIONS AND CONTRACT DOCUMENTS.
7. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS FOR LOCATIONS AND SIZES OF HOLES, SUMP PITS, TRENCHES, CURBS, BOLTS, SLEEVES, OPENINGS, ETC.
8. THE CONTRACTOR SHALL BECOME FAMILIARIZED WITH THE PROJECT ON SITE, INCLUDING EXISTING CONSTRUCTION, ANY ALTERATIONS FROM ASSUMED IN THE DRAWINGS MUST BE REPORTED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
9. THE ENGINEER MUST APPROVE SUBSTITUTIONS FOR SPECIFIED PRODUCTS AND MATERIALS.
10. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS - ORES 21591.
11. THE CONTRACTOR SHALL PROVIDE DESIGN AND CONSTRUCTION OF FOUNDATIONAL AND VERTICAL SHORING AND TEMPORARY BRACING AS PER ORES 21591. THE CONTRACTOR SHALL PROVIDE BRACING, SHORING, SHEET PILING ETC. TO PROTECT EXISTING OR ADJACENT STRUCTURES AFFECTED BY THIS WORK.
12. AN INDEPENDENT INSPECTION AND TESTING COMPANY SHALL PROVIDE TESTS TO PROVE THAT CONSTRUCTION IS IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. REQUIRED TESTING SHALL BE AS PER THE TESTING AND INSPECTION TABLE BELOW.
13. DOYTCH & FILO ENGINEERING WILL PROVIDE GENERAL REVIEW OF CONSTRUCTION, DOYTCH & FILO ENGINEERING WILL REVIEW SHOP DRAWINGS FOR GENERAL CONFORMITY WITH THE CONTRACT DOCUMENTS PREPARED BY DOYTCH & FILO. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMANCE OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. DOYTCH & FILO IS NOT RESPONSIBLE FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. REVIEWED SHOP DRAWINGS DO NOT RELIEVE CONTRACTORS FROM RESPONSIBILITY FOR THEIR MISTAKES.
14. SHOP DRAWINGS MUST BE SEALED BY PROFESSIONAL ENGINEER BEFORE BEING SUBMITTED TO OFE FOR REVIEW U.N.O.
15. THE OWNER AND THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF CONSTRUCTION PROGRESS, AND THEY SHALL INVITE THE ENGINEER TO COMPLETE GENERAL REVIEWS.

FOUNDATIONS

1. ALL FOOTINGS SHALL BEAR DIRECTLY ON NATURALLY CONSOLIDATED, UNDISTURBED SOIL, WITH A MINIMUM SOIL BEARING CAPACITY OF 100 kPa (SL) AND 150 kPa (ULS) AT MIN. 1.2m BELOW GROUND.
2. BOTTOM OF THE FOOTINGS SHALL BE BELOW THE LEVEL OF FREEZING DEPTH, BUT A MINIMUM 1200 mm (4'-0") BELOW FINISHED EXTERIOR GRADE, UNLESS NOTED OTHERWISE.
3. PROTECT ALL SOIL FROM FREEZING ADJACENT TO AND BELOW ALL FOUNDATIONS DURING CONSTRUCTION.
4. INSULATION IS SHOWN WHERE REQUIRED FOR PROTECTION OF THE FOUNDATIONS FROM DAMAGE DUE TO FROST ACTION ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR FOUNDATION INSULATION NOT SHOWN ON THE STRUCTURAL DRAWINGS.
5. THE BEARING SOIL HAS MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER BEFORE POURING THE FOOTINGS.
6. ALL ORGANIC TOPSOIL AND LOOSE FILL TO BE REMOVED FROM THE SITE BEFORE CONSTRUCTION.
7. WHERE APPROVED, GRANULAR FILL UNDER ALL FOOTINGS ON GRADE SHALL BE COMPACTED IN 150 mm (6") LAYERS TO SPECIFIED IN THE SOILS REPORT STANDARD PROCTOR MAXIMUM DRY DENSITY (SPND).
8. PLACE BOTTOM OF NEW FOOTINGS AT THE SAME ELEVATION AS THE EXISTING ADJACENT FOOTINGS, UNLESS NOTED OTHERWISE. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR ALONG STEPPED FOOTINGS SHALL NOT EXCEED 1 VERT. TO 2 HOR. (COORD. W/ SOILS CONSULTANT), AND MAX HEIGHT OF ONE STEP TO BE 600mm.
9. SLABS ON GRADE
 - A. PLACE SLABS ON GRADE ON MATERIAL CAPABLE OF SAFELY SUPPORTING 25 kPa WITHOUT SETTLEMENT RELATIVE TO THE BUILDING FOUNDATIONS.
 - B. PROOF-ROLL EXISTING FILL MATERIAL. REMOVE ANY LOOSE OR SOFTENED AREAS BENEATH SLAB-ON-GRADE BEFORE PLACING GRANULAR FILL.
 - C. APPROVED GRANULAR FILL UNDER ALL SLABS ON GRADE SHALL BE COMPACTED IN 150 mm (6") LAYERS TO 100% STANDARD PROCTOR MAXIMUM DRY DENSITY (SPND).
 - D. BEFORE CASTING THE SLAB PLACE 200 mm (8") OF 19 mm (3/4") CLEAR CRUSHED STONE OVER THE SUB-BASE AND THOROUGHLY ROLL AND CONSOLIDATE TO THE LEVELS REQUIRED.
10. FOUNDATION WALLS WITH BACKFILL ON BOTH SIDES TO BE BACKFILLED SYMMETRICALLY UNLESS TEMPORARY SHORING FOR THE WALL IS PROVIDED.
11. ANY HORIZONTAL CONSTRUCTION JOINTS IN FOUNDATION WALLS TO BE APPROVED BY THE ENGINEER.
12. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVERED RETAINING WALLS) UNTIL THE WALLS AND THE FLOOR CONSTRUCTIONS AT THE TOP AND BOTTOM OF THE WALLS HAVE BEEN CAST AND HAVE ATTAINED 100% OF THEIR DESIGN STRENGTH.

CAST-IN-PLACE CONCRETE AND REINFORCING

1. ALL CONCRETE WORK TO CONFORM TO THE LATEST REQUIREMENTS OF CSA STANDARDS A23.1, A23.2 & A23.3.

CONCRETE MIX PROPERTIES TABLE					
CONCRETE	MIN 28 DAYS STRENGTH (MPa)	SUMP mm	AIR CONTENT (%)	MAX AGGREGATE SIZE (m)	EXPOSURE CLASS
EXPOSED FOUNDATION WALLS, RETAINING WALLS, CAISSONS	25	80 (±30)	4.7	3/4"	F-2
INTERIOR COLUMNS / WALLS / PILE CAPS, FOUNDATION WALLS / BEAMS	35	80 (±30)	0	3/4"	N
INT. S.O.G.	25	80 (±30)	0	3/4"	N
FREEZE THAW EXPOSURE	25	80 (±30)	4.7	3/4"	F-2
EXTERIOR SLAB (UNREINFORCED)	32	80 (±30)	5.8	3/4"	C-2
EXTERIOR SLAB (REINFORCED)	35	80 (±30)	5.8	3/4"	C-1
NON SHRINKABLE GROUT	30	AS PER MANUF. RECOMMEND	0	-	N
LEAN MIX CONCRETE	4	80 (±30)	0	-	N
SPREAD FOOTINGS	25	80 (±30)	4.7	3/4"	N
STRIP FOOTINGS, MATT PADS	25	80 (±30)	4.7	3/4"	N

2. WELDED WIRE FABRIC SHALL CONFORM TO CAN/CSA G30.5 WITH A MINIMUM YIELD STRENGTH OF FY = 450 MPa. WELDED WIRE FABRIC SHEETS SHALL BE LAPPED A MINIMUM OF 150mm (6") AT JOINTS (U.N.O.).
3. REINFORCING BARS SHALL CONFORM TO CAN/CSA G30.18 GRADE 400M FOR REINFORCING STEEL WITH MINIMUM YIELD STRENGTH OF FY = 400 MPa.
4. INSTALLATION OF THE REINFORCING STEEL SHALL CONFORM TO THE REINFORCING STEEL INSTITUTE OF CANADA "MANUAL OF STANDARD PRACTICE".
5. ALL REINFORCING LAP SPICES SHALL CONFORM TO THE LATEST CSA STANDARD A23.1 AND ALL BAR SPICES SHALL BE CLASS "B" TENSION SPICES (U.N.O.).
 - a. NO BAR SPICES SHALL BE LESS THAN IN THE TABLE BELOW.
 - b. INCREASE HORIZONTAL SPICE LENGTHS IN THE TABLE BY 1.3 WHERE MORE THAN 300mm (12") OF FRESH CONCRETE IS CAST BELOW THE SPICE.

CONCRETE	TENSION SPICE			COMPRESSION SPICE
	25 MPa	30 MPa	35 MPa	
REBAR SIZE				
10M	400 (16")	400 (16")	400 (16")	450 (18")
15M	600 (24")	600 (24")	600 (24")	450 (18")
20M	800 (32")	800 (32")	800 (32")	600 (24")
25M	1200 (48")	1100 (44")	1000 (40")	750 (30")
30M	1400 (56")	1300 (52")	1200 (48")	900 (36")
35M	1600 (66")	1500 (60")	1400 (56")	1050 (42")

6. EMBEDMENT OF DOWELS SHALL BE MIN. EQUAL TO TENSION SPICE LENGTH, UNLESS NOTED OTHERWISE.
7. REINFORCING BARS TO BE SYMMETRIC OVER SUPPORTS AND SYMMETRIC IN SPANS, UNLESS NOTED OTHERWISE.
8. REINFORCING STEEL SHALL BE FIXED IN PLACE DURING PLACEMENT OF CONCRETE. BAR SUPPORTS SHALL BE STEEL, CONCRETE OR PLASTIC.
9. THE REINFORCING STEEL SHALL BE CLEANED FROM OIL, GRASE, RUST AND DEBRIS BEFORE PLACEMENT OF CONCRETE.
10. CONCRETE PROPERTIES
 - a. ALL CONCRETE SHALL HAVE A 28 DAY MINIMUM COMPRESSIVE STRENGTH OF 35MPa UNLESS OTHERWISE SPECIFIED.
11. THE SLUMP SHOWN IN THE TABLE MAY BE INCREASED WHEN SUPER-PLASTICIZER IS USED.
12. DO NOT ADD WATER TO CONCRETE UNLESS WRITTEN APPROVAL, GIVEN BY THE ENGINEER. IF HIGHER SLUMP CONCRETE IS DESIRED, CONCRETE SUPPLIER SHALL DESIGN AND SUPPLY ACCORDINGLY.
13. CONCRETE FORMWORK TOLERANCES SHALL CONFORM TO CSA STANDARD A23.1, UNLESS NOTED OTHERWISE.
14. CURING OF CONCRETE SHALL BE IN ACCORDANCE WITH CSA A23.1 SECTION 7.4.
15. VIBRATE ALL CONCRETE AT THE TIME OF POURING.
16. CONTROL JOINTS IN SLABS ON GRADE SHALL BE MIN. 1/3 (SEE TYP. DETAIL). MAX. DISTANCE BETWEEN CONTROL JOINTS IN SLABS ON-GRADE SHALL BE LESS THAN THE GREATER OF 25 x 1 OR 3000 mm (10'-0") UNLESS NOTED OTHERWISE.
17. SUPPLY AND SET ANCHOR BOLTS, P.C. CONNECTIONS, SLEEVES, PIPE HANGERS, JOISTS AND OTHER INSERTS AND OPENINGS AS INDICATED OR SPECIFIED ELSEWHERE.
FOR BEAMS AND COLUMNS: NO SLEEVES, DUCTS, PIPES OR OTHER OPENINGS SHALL PASS VERTICALLY OR HORIZONTALLY EXCEPT WHERE EXPRESSLY DETAILED ON STRUCTURAL DRAWINGS OR WHERE APPROVED IN ADVANCE BY ENGINEER.
FOR SLABS AND WALLS: ALL SLEEVES AND OPENINGS GREATER THAN 100 mm (4") IN ANY DIMENSION OR REQUIRING THE CUTTING OF ANY REINFORCEMENT, AND NOT INDICATED ON STRUCTURAL DRAWINGS, MUST BE APPROVED BY THE ENGINEER.
FOR MULTIPLE OPENINGS OR SLEEVES: IF WITHIN 600mm (24") OF EACH OTHER CONSULT ENGINEER FOR DIRECTION. DO NOT MAKE HOLES IN SLABS CLOSER THAN 24" TO EDGE OF COLUMNS.
18. CAST IN ANCHOR BOLTS SHALL CONFORM TO THE LATEST CSA STANDARD G40.21 OR ASTM F1554 WITH A MINIMUM YIELD STRENGTH OF 250 MPa AND SHALL BE SET TRUE AS TO LOCATION, ELEVATION AND PROJECTION TO THE FOLLOWING TOLERANCES:
ANCHOR BOLT LOCATION ± 3 mm (1/8")
ANCHOR BOLT PROJECTION ± 6 mm (1/4")
19. CONSTRUCTION JOINTS FOR WALLS ARE BASED UPON VERTICAL JOINTS AT A MAXIMUM SPACING OF 1000mm (33'-0"). UNLESS CONTROL JOINTS ARE PROVIDED AS PER TYPICAL DETAIL, TOTAL LENGTH OF POUR TO BE DISCUSSED WITH ENGINEER PRIOR TO PROCEEDING.
20. CONSTRUCTION JOINTS FOR WALLS, SLABS, AND BEAMS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL CONSULTANT BEFORE CONSTRUCTION. GENERALLY JOINTS IN SLABS SHALL BE AT RIGHT ANGLES TO THE SPANS, AT MID SPAN IF POSSIBLE AND BE CLEAR OF SUPPORTS AND POINT LOADS.
21. INSERTS, FRAME-OUTS, SLEEVES, BRACKETS, CONDUITS AND FASTENING DEVICES SHALL BE INSTALLED AS REQUIRED BY THE DRAWINGS AND SPECIFICATIONS IN A MANNER THAT SHALL NOT IMPAIR THE STRUCTURAL STRENGTH OF THE SYSTEM BE SO INSTALLED THAT THEY SHALL NO REQUIRE THE CUTTING, BENDING, OR DISPLACEMENT OF THE REINFORCING OTHER THAN AS SHOWN ON THE TYPICAL DETAILS.
22. ELECTRICAL CONDUITS SHALL NOT PASS THROUGH A COLUMN, SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN 1/3 SLAB THICKNESS OR WALL OR BEAM WHICH IT IS EMBEDDED. SHALL NOT BE SPACED CLOSER THAN 3 DIAMETERS ON CENTER UNLESS APPROVED AND HAVE A MINIMUM CONCRETE COVER OF 25mm (1") AND UNLESS SPECIFICALLY PERMITTED OTHERWISE, SHALL NOT RUN HORIZONTALLY IN A CONCRETE WALL.
23. CONFORM TO THE CONCRETE COVER REQUIREMENTS OF CSA A23.1 AND THE FOLLOWING, UNLESS NOTED OTHERWISE:
- FOR CONCRETE CAST AGAINST EARTH AND PERMANENTLY EXPOSED TO EARTH: -75mm

- NOTES:
- a. THE SLAB COVERS IN TABLE 1, 2 AND 3 ARE FOR CONCRETE NOT PROTECTED BY A MEMBRANE OR A CORROSION INHIBITOR. FOR PARKING GARAGE SLABS - SEE TABLE 4.
 - b. FOR COLUMN COVERS TO MAIN REINFORCEMENT EXCEEDING 65mm WITH A HOUR FIRE RATING. PROVIDE WIRE MESH USING 1.57mm @ 100mm EA WAY.
 - c. THE COVER FOR A BUNDLE OF BARS SHALL BE THE SAME AS THAT FOR A SINGLE BAR WITH AN EQUIVALENT AREA.
 - d. PROVIDE COVER FOR MINIMUM 2 HOURS FIRE RATING UNLESS OTHERWISE NOTED.
 - e. REINFORCED CONCRETE WALLS WHICH MAY BE EXPOSED TO FIRE ON BOTH SIDES SIMULTANEOUSLY SHALL HAVE THE MINIMUM COVER REQUIREMENTS FOR COLUMNS.

CONCRETE AND REINFORCING (cont'd)

TABLE 1 MINIMUM CONCRETE COVER FOR ELEMENTS NOT EXPOSED TO CHLORIDES NOR FREEZING AND THAWING (mm)							
ELEMENTS		COMMENTS	BAR SIZE	FIRE RATING			
				≤ 2	3	4	
WALLS	FOUNDATION WALLS, RETAINING WALLS	NOT CAST AGAINST CONC. FORMWORK (CAST AGAINST LAGGING CAISSON, WALL)	ALL BAR SIZES	50			
			25				
			30				
			35				
COLUMNS	COLUMNS		Ø ≤ 30M	40		55	
		35M					
SLABS AND BEAMS	SLABS		Ø ≤ 25M	25	35	40	
			30M	30			
			35M	35			
	BEAMS		Ø ≤ 25M	30		40	
			30M				
			35M	35			
			45M	45			

TABLE 2 MINIMUM CONCRETE COVER FOR ELEMENTS EXPOSED TO FREEZING AND THAWING (mm)					
ELEMENTS		COMMENTS	BAR SIZE	FIRE RATING	
				≤ 3	4
WALLS	FOUNDATION WALLS, RETAINING WALLS	NOT CAST AGAINST CONC. FORMWORK (CAST AGAINST LAGGING, CAISSON, WALL)	ALL BAR SIZES	50	
	FOUNDATION WALLS, SHEAR WALLS (R) RETAINING WALLS AND MISC. WALLS		Ø ≤ 25M	40	
			30M	45	
			35M	55	
COLUMNS	COLUMNS		Ø ≤ 30M	45	55
			35M	55	
SLABS AND BEAMS	SLABS AND BEAMS		Ø ≤ 25M	40	
			30M	45	
			35M	55	
			45M	70	

TABLE 3 MINIMUM CONCRETE COVER FOR ELEMENTS EXPOSED TO CHLORIDES (mm)				
ELEMENTS		COMMENTS	BAR SIZE	FIRE RATING
				≤c4
WALLS	FOUNDATION WALLS, SHEAR WALLS AND MISC. WALLS (e)		Ø ≤ 25M	60
			30M	60
			35M	70
			45M	90
COLUMNS	COLUMNS		Ø ≤ 30M	60
			35M	80
			45M	105
			55M	105
SLABS AND BEAMS	SLABS AND BEAMS		Ø ≤ 25M	60
			30M	70
			35M	70
			45M	90

DESIGN LOAD:

1. ROOF:
DEAD LOAD = 1.65 kPa
SNOW LOAD = 2.3 kPa
2. SNOW LOAD
S_s = 2.3 kPa ; S_r = 0.4 kPa ; S = 2.58 kPa
FOR SNOW ACCUMULATION SEE PLAN
3. WIND HOURLY PRESSURE
q_h = 0.45 kPa
4. SEISMIC LOAD
S_{ps} = 0.307 ; S_{ps} = 0.149
S_{ps} = 0.069 ; S_{ps} = 0.031 ; S_{ps} = 0.0073 ;
S_{ps} = 0.0028 ; PGA = 0.198 ; PGV = 0.115
SEISMIC HAZARD INDEX: I_h = 0.23 - 0.46
SITE CLASSIFICATION : SITE CLASS "D"

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL AND, JUST DESIGN CONNECTIONS AND DETAILS SHALL BE IN ACCORDANCE WITH THE LATEST CSA STANDARD 516.
 - a. REFER ALSO TO NOTES UNDER PLANS.
2. STRUCTURAL STEEL SHALL CONFORM TO CAN/CSA G40.21, AND CAN/CSA G40.21
 - a. GRADE 550W CLASS "C" FOR H.S.S.
 - b. GRADE 550W FOR W SHAPES, S SHAPES, AND TEES.
 - c. GRADE 300W FOR CHANNELS, ANGLES, PLATES, ROOF.
3. BOLTED CONNECTIONS SHALL USE ASTM A325 BOLTS. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A325. ANCHOR RODS SHALL BE FABRICATED FROM STEEL ROD CONFORMING TO CSA STANDARD G40.21 GRADE 300W.
4. SHEAR STUDS TO CONFORM ASTM A108.
5. WELDING MATERIALS TO CONFORM TO CSA W48.
6. WELDING OF STRUCTURAL STEEL SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD W59.
7. FILLET WELDS SHALL BE 6mm (1/4") MIN. U.N.O. BOLTS SHALL BE A325 19mm (3/4") MIN. U.N.O. BOLTED CONNECTIONS SHALL HAVE MIN. OF TWO BOLTS IN EACH CONNECTED PIECE. BOLTED CONNECTIONS SHALL BE DESIGNED AS BEARING CONNECTIONS U.N.O.
8. STEEL COATINGS: STRUCTURAL STEEL SHALL BE CLEANED AND PREPARED TO CONFORM TO CSA STANDARD S16:
 - a. INTERIOR STRUCTURAL STEEL SHALL BE PRIMED AND PAINTED AS PER CSA CAN 6-16.
 - b. EXPOSED STEEL TO BE HOT DIP GALVANIZED IN ACCORDANCE TO CAN/CSA G164. TOUCH UP OF WELDS AND CUTS OF GALVANIZED MEMBERS TO BE DONE WITH A MINIMUM OF 3 COATS OF ZINC RICH PAINT.
 - c. INTERIOR STEEL MEMBERS THAT ARE TO BE PROTECTED BY A CEMENTITIOUS FIRE PROOFING SHALL BE CLEANED AND REMAIN UNCOATED.
9. FABRICATOR SHALL DESIGN CONNECTIONS IN ACCORDANCE WITH THE 2012 OBC FOR THE FORCES SHOWN ON THE DRAWINGS. BEAM CONNECTIONS SHALL BE DESIGNED FOR A MINIMUM OF 50% OF THE BEAM SHEAR CAPACITY IF FACTORED DESIGN FORCES ARE NOT SHOWN ON THE DRAWINGS.
10. MOMENT FRAMES CONNECTIONS TO BE CONTINUOUS COLUMN / INTERRUPTED BEAM TYPE U.N.O.
11. WHERE MOMENT CONNECTIONS ARE CALLED FOR BUT ARE NOT INDICATED, DESIGN CONNECTIONS FOR 100% SECTION CAPACITY OF THE SMALLEST MEMBER JOINED.
12. COLUMN CAP PLATES TO BE MIN. 15mm (5/8") THICK U.N.O. COLUMN BASE PLATES TO BE MIN. 20mm (3/4") THICK U.N.O. HSS COLUMNS TO HAVE MIN. 10mm (3/8") THICK CAP PLATE WELDED ALL AROUND U.N.O.
13. ALL BEAMS CANTILEVERED OR CONTINUOUS OR SUPPORTED OVER A COLUMN OR OTHER SUPPORT, AND BEAMS SUPPORTING POINTS OF CONCENTRATED LOAD, SHALL HAVE A MIN. OF 2:10 mm (3/8") STIFFENERS EACH SIDE OF COLUMN AND TOP CHORD OF JOISTS.
14. TOP OF COLUMNS WHICH ARE NOT BRACED BY JOISTS OR BEAMS SHALL BE BRACED DIAGONALLY TO THE ROOF OR FLOOR BY A MINIMUM OF 4.76 x 76 x 6.4 mm (3.8 x 3 x 1/4") ANGLES FOR INTERIOR COLUMNS, A MINIMUM 2.76 x 76 x 6.4 mm (3.8 x 3 x 1/4") ANGLES FOR EXTERIOR COLUMNS. BRACING SHALL BE BETWEEN TOP OF COLUMN AND TOP CHORD OF JOISTS.
15. COLUMNS BUILT INTO MASONRY, ABUTTED BY, OR FACED WITH MASONRY WALLS SHALL HAVE ADJUSTABLE ANCHORS AT 400 mm (16") O.C. SPACED VERTICALLY, WHERE STEEL PROVIDES LATERAL BRACING ONLY TO MASONRY, ANCHORS SHALL ALLOW VERTICAL MOVEMENT BETWEEN STEEL MEMBERS AND MASONRY.
16. BEARING PLATES ARE TO BE CENTRED BELOW ALL BEAMS OR LINTELS U.N.O. ON THE DRAWINGS. WELD TO BEARING PLATE WITH A MINIMUM 50 mm x 5 mm (2" x 3/16") FILLET ON BOTH SIDES OF BEAM.
17. STEEL BEAMS AND LINTELS SHALL HAVE 200 mm (8") MINIMUM END BEARING ON MASONRY AND 65 mm (2 1/2") MINIMUM BEARING ON STEEL UNLESS INDICATED OTHERWISE.
18. WHERE BACK-TO-BACK ANGLES ARE USED AS LINTELS OR SUPPORTS, STITCH WELD TOGETHER AT A MAXIMUM SPACING OF 300mm (12") O.C.
19. ALL ROOF OPENINGS TO BE REINFORCED BY FRAMES PER TYP. DETAIL UNLESS NOTED OTHERWISE. MAXIMUM SPAN 2000 mm (6'-6"). FOR LARGER OPENING CONSULT STRUCTURAL ENGINEER. COORDINATE WITH MECHANICAL, ELECTRICAL AND SUB-TRADES TO AVOID INTERFERENCE WITH STRUCTURAL MEMBERS.
20. PROVIDE TEMPORARY BRACING TO KEEP STRUCTURE SAFE AND PLUMB UNTIL PERMANENT BRACING SHOWN ON DRAWINGS INCLUDING FLOORS AND ROOFS IS CONSTRUCTED.

METAL DECK

1. DESIGN METAL DECK IN CONFORMANCE WITH THE REQUIREMENTS OF CSA S136 FOR THE LOADS INDICATED ON THE DRAWINGS.
2. UNLESS NOTED OTHERWISE, ROOF DECK SHALL BE 38 mm x 0.91 mm (1.5" x .036") VIC WEST STEEL, INC. RD 938 (OR APPROVED EQUAL), MINIMUM 3 SPANS CONTINUOUS.
3. UNLESS NOTED OTHERWISE, FLOOR DECK SHALL BE 38 mm x 0.76 mm (1.5" x .030") VIC WEST STEEL, INC. H8838 (OR APPROVED EQUAL), MINIMUM 3 SPANS CONTINUOUS.
4. METAL DECK SHALL BE LIGHT ZINC COATED STRUCTURAL STEEL SHEET FABRICATED AND PRECUT IN ACCORDANCE WITH CSSBI 101M, CAN/CSA S136, AND CSSBI 101M. THE MINIMUM ZINC COATING DESIGNATION SHALL BE ZF075 (U.N.O.).
5. DECK SHALL OVERLAP A MINIMUM OF 50 mm (2") AT ALL END JOINTS AND HAVE A MINIMUM BEARING LENGTH OF 50 mm (2") ON ALL STRUCTURAL STEEL.
6. DECK HAS BEEN DESIGNED FOR DIAPHRAGM ACTION AND SHALL BE FASTENED AS FOLLOWS U.N.O.:
WELD DECK TO SUPPORTING STEEL WITH 20 mm (3/4") DIAMETER PIG WELD AT TRANSVERSE WELD SPACING -300 mm (12") O.C.
PERIMETER WELD SPACING -300 mm (12") O.C.
SIDE LAP BUTT JOINT SPACING -300 mm (12") O.C.
LONGITUDINAL WELD SPACING -300 mm (12") O.C.
7. DECK WELDS SHALL BE TOUCHED UP WITH APPROVED PAINT BY THE DECK ERECTOR.
8. STEEL DECK WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF ALL SHEET STEEL ANGLES, COVER PLATES, CLOSURES, STIFFENERS AND ANY OTHER ACCESSORIES REQUIRED.
9. CUT OPENINGS AND REINFORCE DECK AS REQUIRED FOR PIPES, DUCTS, ETC.
 - A. THE MAXIMUM SIZE OF AN UNREINFORCED OPENING IS 150 mm (6").
 - B. REINFORCE ALL OPENINGS LARGER THAN 150mm (6"), BUT NOT EXCEEDING 450 mm (18"), AS INDICATED BY THE METAL DECK SUPPLIER.
 - C. FOR OPENINGS GREATER THAN 450mm (18") NOT SHOWN ON THE DRAWINGS, CONTACT ENGINEER FOR DIRECTION.
10. HANGER WIRE FOR SUSPENDED CEILINGS SHOULD PIERCE BOTH SIDES OF THE FLUTE AND BE LOOPEO AROUND AND TIED.

MASONRY

1. CONCRETE MASONRY UNITS SHALL CONFORM TO THE CSA CAN/CSA-1165 AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 15MPa BASED ON NET CROSS SECTIONAL AREA.
2. REINFORCING BARS SHALL CONFORM TO CAN/CSA G30.18 GRADE 400M FOR REINFORCING STEEL WITH MINIMUM YIELD STRENGTH OF FY = 400 MPa.
3. TYPE S MORTAR SHALL BE USED THROUGHOUT FOR LOAD BEARING BLOCK. TYPE N MORTAR SHALL BE USED FOR BRICK VENEER OR DECORATIVE NON-LOAD BEARING BLOCK.
MORTAR TYPE S: MIN. COMPRESSIVE STRENGTH- 12.0 MPa
MORTAR TYPE N: MIN. COMPRESSIVE STRENGTH- 7.5 MPa
GROUT SHALL CONFORM TO CAN/CSA A175.
GROUT MIN. COMPRESSIVE STRENGTH - 20 MPa
4. ALL MASONRY CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARDS CAN/CSA-A370, CAN/CSA-A371 AND CSA S304.1.
5. ALL MASONRY WALLS SHALL BE HORIZONTALLY REINFORCED. MINIMUM REQUIREMENTS WITH (4.76 mm Ø) HEAVY DUTY "LADDER" TYPE JOINT REINFORCEMENT (OR APPROVED EQUAL), AND CONTINUOUS REINFORCEMENT AT EVERY SECOND COURSE (400 mm (16").
 - a. ALL JOINT REINFORCEMENT SHALL BE HOT-DIPPED GALVANIZED.
 - b. REINFORCEMENT SHALL BE LAPPED A MINIMUM OF 300mm (12") AT ALL JOINTS.
 - c. PREFABRICATED CORNER AND TEE REINFORCEMENT SHALL BE USED AT ALL WALL INTERSECTIONS.
 - d. REINFORCEMENT SHALL BE PLACED AS TO PROVIDE 16 mm (5/8") MORTAR COVER ON THE EXTERIOR FACE OF WALL AND 12 mm (1/2") COVER ON THE INTERIOR FACE OF WALL.
6. UNLESS NOTED OTHERWISE, PROVIDE CONTINUOUS BOND BEAMS (REINFORCED WITH 1-15M) AT UNDERSIDE OF EACH FLOOR, ROOF AND AT TOP OF PARAPETS. ALSO PROVIDE BOND BEAMS AT TOP AND BOTTOM OF OPENINGS AND EXTEND 600mm PAST CORNERS. REINFORCE BOTTOM BOND BEAM WITH 1-15M. REINFORCE TOP BOND BEAM AS FOLLOWS:
SPANS LESS THAN 1500 mm
200 mm DEEP BOND BEAM c/w 1-15M FULL LENGTH
SPANS 1500 mm TO 3000 mm
400 mm DEEP BOND BEAM c/w 2-15M FULL LENGTH
7. IN SEISMIC ZONES, IN ADDITION TO NOTE # 6 PROVIDE CONTINUOUS BOND BEAMS (REINFORCED WITH 1-15M) AT MAXIMUM VERTICAL INTERVALS OF 2400 mm O.C.
8. ALL TIES FOR MASONRY VENEER SHALL BE DESIGNED AND SUPPLIED BY THE MASONRY CONTRACTOR IN ACCORDANCE WITH CSA STANDARDS S304.1 AND CAN/CSA-A370.
9. ALL BLOCK MASONRY UNITS SHALL BE CONSTRUCTED WITH FULL HEAD JOINTS, AND FULL BED JOINTS UNDER THE FULL BEARING AREAS OF THE FACE SHELLS, AND UNDER WEBS SURROUNDING THOSE CELLS TO BE FILLED WITH GROUT.
10. WHERE MASONRY THICKNESS CHANGES, GROUT 100% SOLID MIN. 200mm (8") THE LOWER/THICKER PORTION OF THE WALL.
11. GROUT 100% SOLID BLOCKS AT PARAPETS.
12. THE INTERSECTION OF ALL MASONRY WALLS SHALL BE TOOTHED OR CONTINUOUSLY REINFORCED WITH JOINT REINFORCEMENT.
13. ALL MASONRY BENEATH CONCENTRATED LOADS (SUCH AS BEAMS, LINTELS, AND JOISTS) SHALL BE SOLID BLOCKS OR 100% GROUTED BLOCKS FOR A MINIMUM DEPTH OF 4

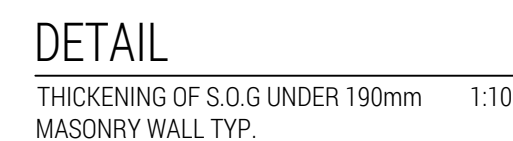


NOTES:

1. STRUCTURAL STEEL SHALL BE G40.21.
2. BEARING LENGTH = 6" AT EACH END.
3. CONNECT ANGLES @ 24" o/c BY WELDING or BOLTING FOR ANGLES WITH A TOTAL LENGTH OF 6'-0" OR MORE

NOTES:

1. FULLY GROUT ALL REINFORCED CORES.
2. ALL WALLS NOTED FULLY GROUTED ARE TO BE 100% FILLED WITH GROUT.
3. CO-ORDINATE ALL WALL OPENINGS WITH ARCH. DWGS. AND MECHANICAL CONTRACTOR.
4. PROVIDE ADDITIONAL BARS MATCHING WALL REINF. SIZE. FULL HEIGHT @ ALL WALL ENDS. INTERSECTIONS AND OPENINGS UNLESS OTHERWISE NOTED ON DRAWINGS.
5. PROVIDE STANDARD TENSION SPACES FOR ALL HORIZONTAL AND VERTICAL WALL REINFORCEMENT
6. ALL BARS CONNECTING BETWEEN FLOORS TO BE TIED TOGETHER (REFER TO SECTION DETAILS).
7. SOLID FILL VOIDS TO BE MADE WITH 20MPa FLOWABLE GROUT (MORTAR FILL NOT PERMITTED)
8. PROVIDE DOWELS FROM THE FOOTING TO WALLS ABOVE TO MATCH VERTICAL WALL REINFORCE



- DO NOT SCALE DRAWINGS. CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
- ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.
- THE OWNER/ARCHITECT/CONTRACTOR IS ADVISED THAT OUR OFFICE DOES NOT GUARANTEE THE ACCURACY OF THE INFORMATION PROVIDED DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO NOTIFY OUR OFFICE PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.

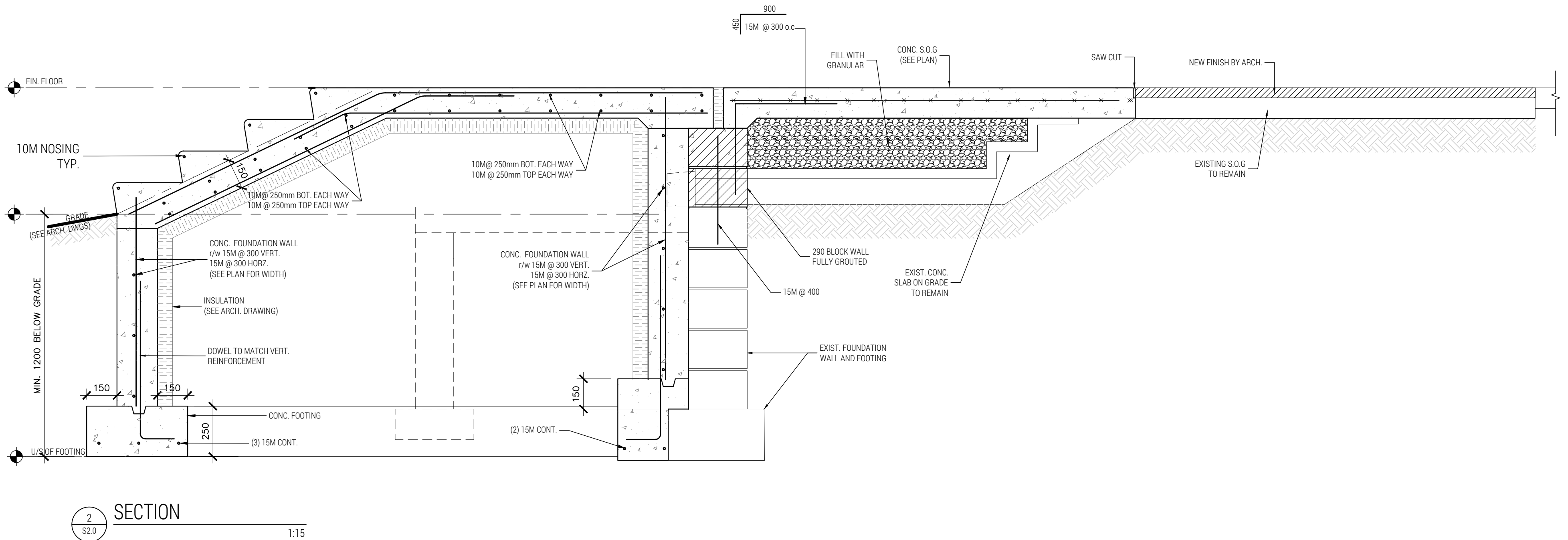
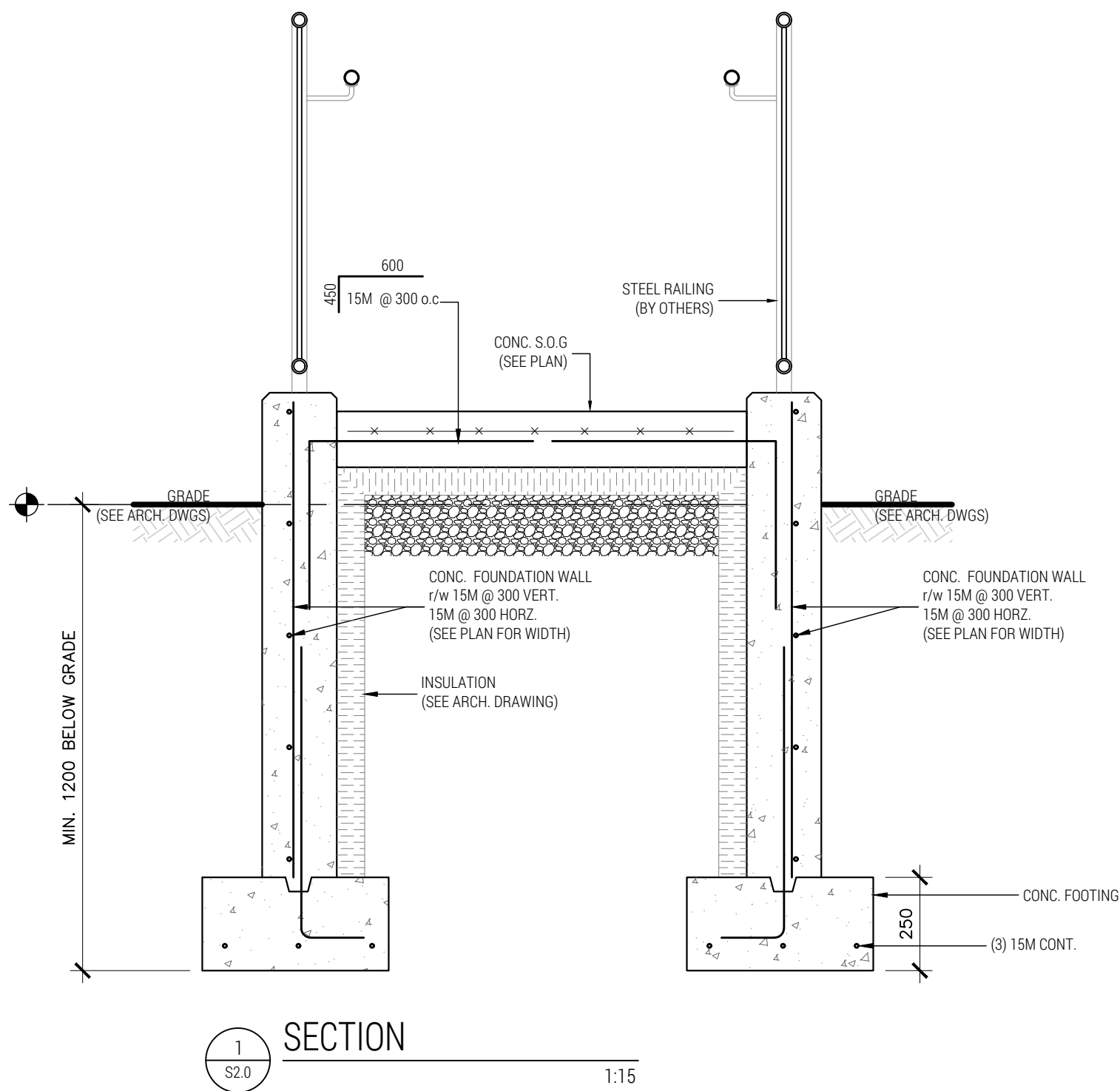
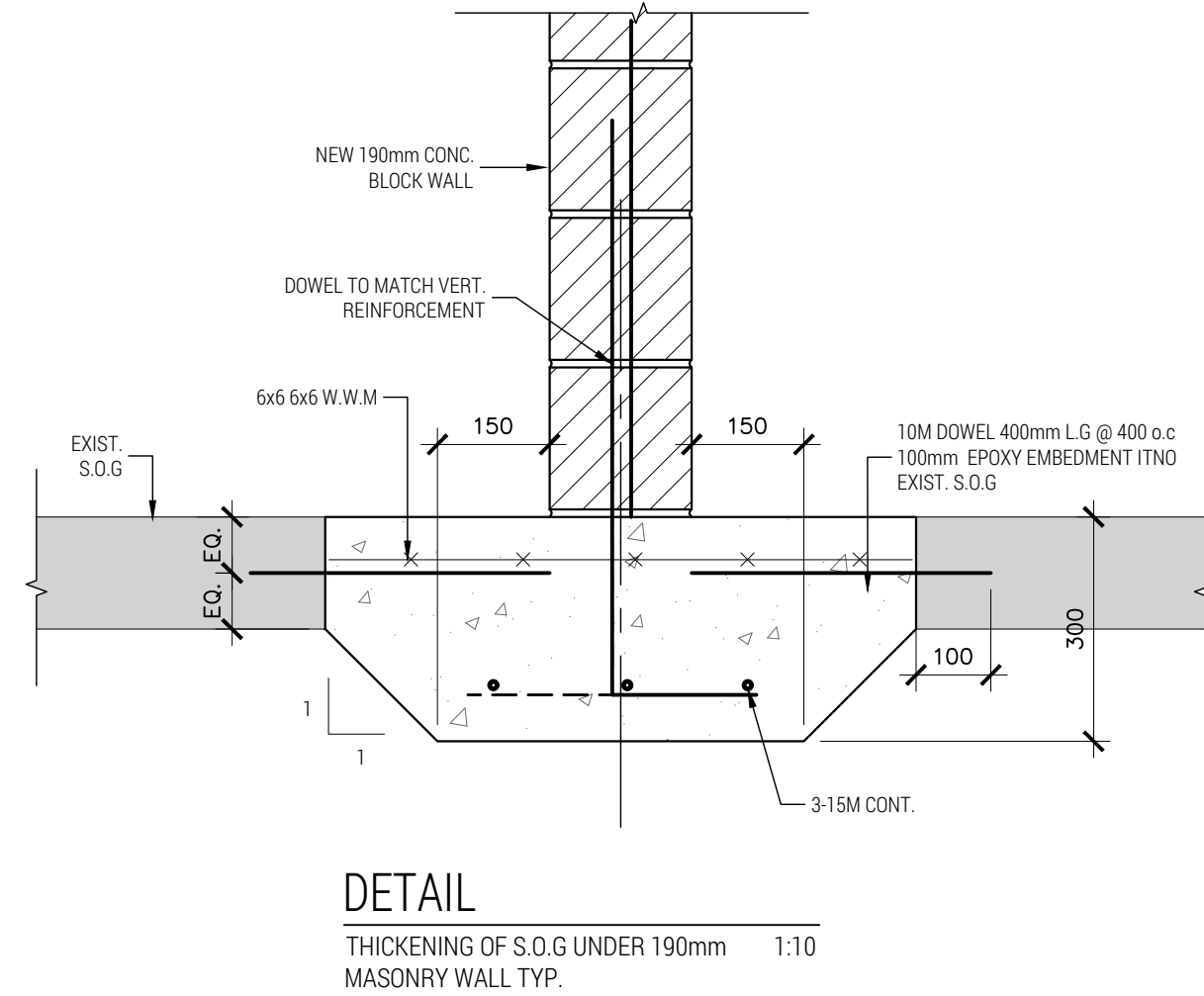
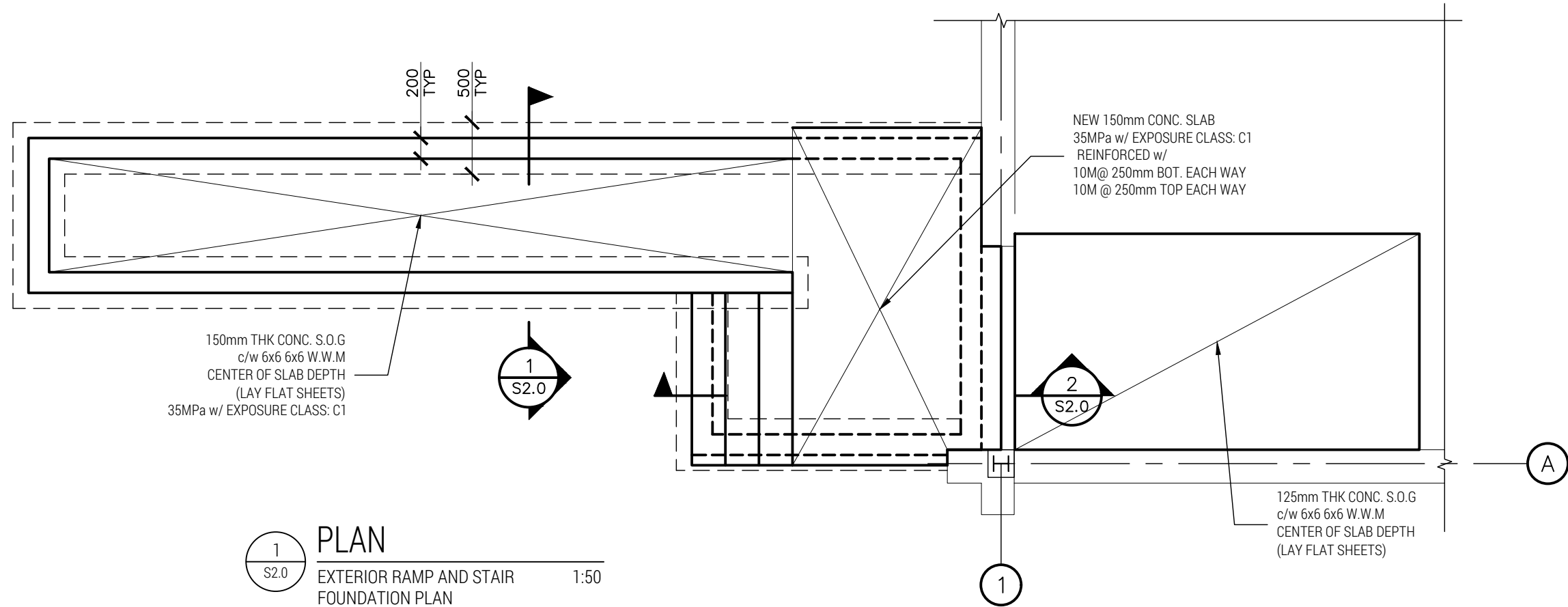
ISSUE / REVISION LIST:	
1. FOR PERMIT	2024-01-19
2. FOR TENDER	2024-01-23

 **DOYCH & FILO ENGINEERING INC.**
Structural Engineers

**ST. JOSEPH CATHOLIC
ELEMENTARY SCHOOL
GYM AND HVAC UPGRADES**
3650 NETHERBY ROAD, STEVENSVILLE, ONTARIO

Stamp
Design By: TD/AF
PROJECT # : 23090801

FLOOR AND ROOF PLANS S1.0



<p>• DO NOT SCALE DRAWINGS. CONTRACTORS MUST CHECK AND VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PROCEEDING WITH CONSTRUCTION.</p> <p>• ALL DRAWINGS REMAIN THE PROPERTY OF THE ENGINEER AND SHALL NOT BE REPRODUCED OR REUSED WITHOUT THE ENGINEER'S WRITTEN PERMISSION.</p> <p>• THE ENGINEER'S OFFICE AND FIELD OFFICES ARE NOT RESPONSIBLE FOR ANY CONSTRUCTION DEFECTS OR DAMAGES CAUSED BY THE CONTRACTOR'S NEGLIGENCE OR MISUSE OF THE DRAWINGS.</p> <p>• THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR NOTIFYING THE ENGINEER'S OFFICE PRIOR TO COMMENCEMENT OF CONSTRUCTION TO ARRANGE FOR INSPECTION.</p>	<p>ISSUE / REVISION LIST:</p> <table><tr><td>1. FOR PERMIT</td><td>2024-01-19</td></tr><tr><td>2. FOR TENDER</td><td>2024-01-23</td></tr></table>	1. FOR PERMIT	2024-01-19	2. FOR TENDER	2024-01-23	<p>DOYTCHANDFILO.COM (647) 836-4805 (905) 719-1482</p>	<p>Stamp</p> <p>Design By: TD/AF</p> <p>PROJECT # : 23090801</p>
		1. FOR PERMIT	2024-01-19				
		2. FOR TENDER	2024-01-23				
		<p>DFE DOYTCH & FILO ENGINEERING INC. Structural Engineers</p>					
<p>ST. JOSEPH CATHOLIC ELEMENTARY SCHOOL GYM AND HVAC UPGRADES 3650 NETHERBY ROAD, STEVENSVILLE, ONTARIO</p>							
<p>FOUNDATION PLAN AND SECTIONS S2.0</p>							

VENTILATION LEGEND	
	SOUND INSULATION
	SILENCER
	FLEXIBLE CONNECTION
	DUCT OFFSET
	DUCT OFFSET (SINGLE LINE)
	TURNING VANES
	VECTROL
	FIRE STOP FLAP
	BALANCING DAMPER
	FIRE DAMPER
	SPLITTER DAMPER
	BACKDRAFT DAMPER
	OPPOSED BLADE DAMPER
	MOTORIZED DAMPER
	SUPPLY DUCT SECTION
	RETURN DUCT SECTION
	SUPPLY DIFFUSER
	LINEAR DIFFUSER
	EXHAUST GRILLE
	DIFFUSER DESIGNATION AND CFM
	GRILLE DESIGNATION AND CFM
	FLEXIBLE ROUND DUCT
	CAPPED END DUCT
	DUCT REDUCER/ENLARGER
	TRANSITION TO ROUND
	HEAT PUMP
	FAN COIL UNIT
	CABINET BLOWER FAN
	THERMOSTAT
	THERMOSTAT w/GUARD
	THERMOSTAT c/w SUB BASE
	DOOR GRILLE
	ACCESS DOOR
	ABOVE FINISHED FLOOR
	CFM CUBIC FEET PER MINUTE
	CHEMICAL CABINET
	MOTOR CONTROL CENTRE
	FUME HOOD
	SUPPLY FAN
	EXHAUST FAN
	RETURN FAN
	CABINET BLOWER FAN
	ALUMINUM DOME FAN
	UNIT HEATER
	CIRCUIT BALANCING VALVE
	REHEAT COIL
	AIR HANDLING UNIT
	VOLUME TAPPING
	DUCT HEATER AND DESIGNATION

PLUMBING LEGEND	
	STORM ABOVE GRADE
	SANITARY ABOVE GRADE
	STORM BURIED
	SANITARY BURIED
	WEEPING TILE
	PUMPED SANITARY
	PUMPED STORM
	OIL SUPPLY
	OIL RETURN
	DOMESTIC COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC RECIRCULATED WATER
	DOMESTIC TEMPERED WATER
	TEMPERED RECIRCULATED WATER
	VENT LINE
	GAS LINE
	EQUIPMENT DRAIN LINE
	FIRE LINE
	SOFTENED COLD WATER
	AREA DRAIN
	FLOOR DRAIN
	FUNNEL FLOOR DRAIN
	HUB DRAIN
	PLANTER DRAIN
	RADIOISOTOPE DRAIN
	ROOF DRAIN
	HOSE STATION
	FIRE HOSE CABINET
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER c/w CABINET
	FIRE BLANKET
	RAIN WATER LEADER
	WATER CLOSET
	WATER CLOSET (HANDICAPPED)
	DISTILLED WATER FAUCET
	URINAL
	URINAL w/TANK
	URINAL FLUSH TANK
	SHOWER
	EMERGENCY SHOWER
	LAVATORY
	LAVATORY (HANDICAPPED)
	STAINLESS STEEL SINK
	JANITOR SINK
	LABORATORY SINK
	CUP SINK
	LAUNDRY TUB
	DRINKING FOUNTAIN
	EYE WASH
	EMERGENCY EYE WASH
	WASH FOUNTAIN
	MANHOLE
	CATCHBASIN
	HOT WATER TANK
	FIRE HYDRANT
	FIRE DEPT. SIAMESE CONNECTION
	THRUST BLOCK
	INVERT ELEV.
	OBVERT ELEV.
	ABOVE FINISHED FLOOR
	HAND HOLE TRAP
	RUNNING TRAP
	APPROVED BACKFLOW PREVENTOR
	PHOTO MIXING VALVE ASSEMBLY
	HOSE BIBB
	PUMP AND DESIGNATION
	FIRE PUMP
	SHOWER MIXING VALVE

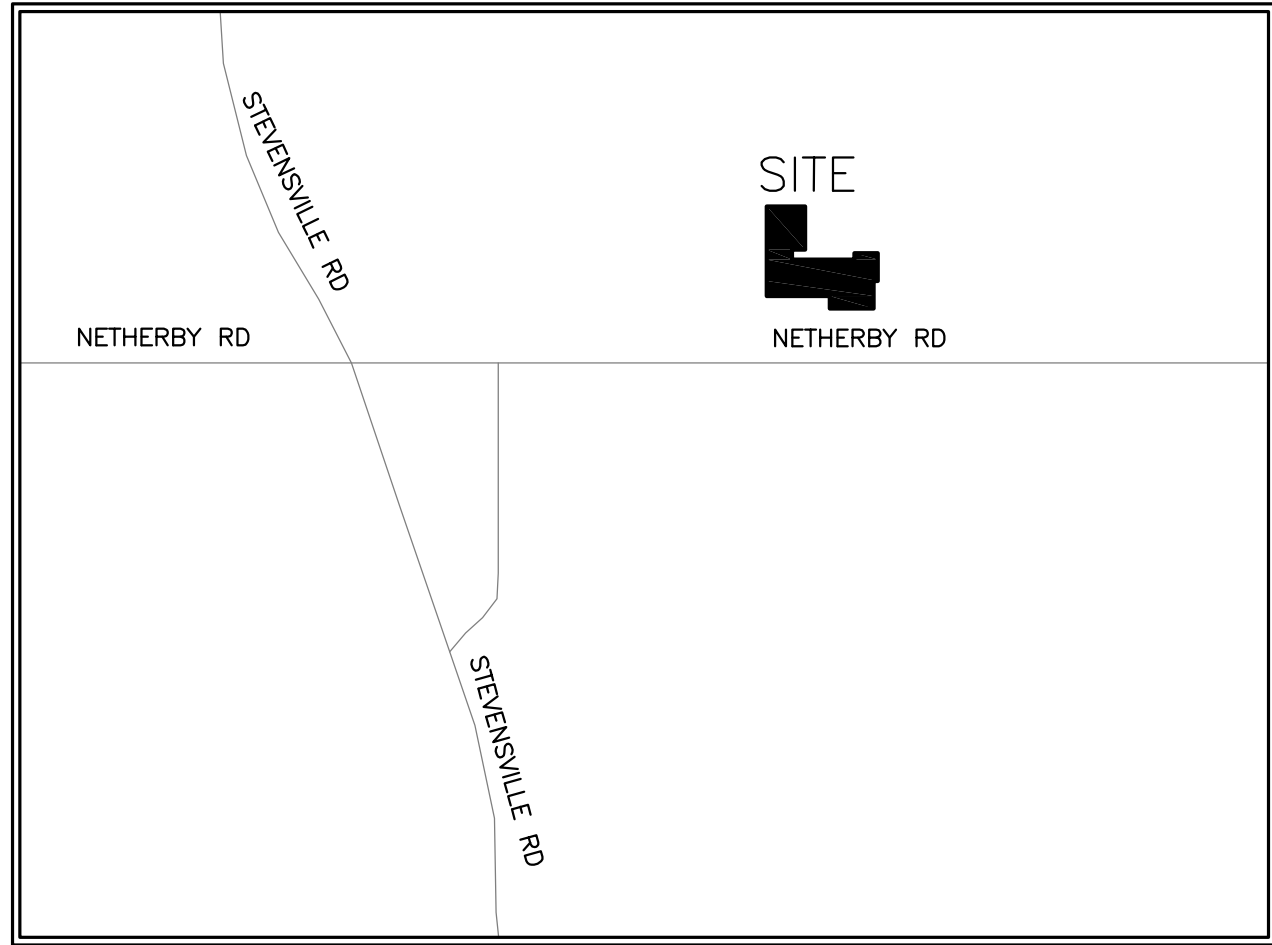
PIPING LEGEND	
	HOT WATER SUPPLY (HWS)
	HOT WATER RETURN (HWR)
	CHILLED WATER SUPPLY
	CHILLED WATER RETURN
	COOLING TOWER SUPPLY
	COOLING TOWER RETURN
	DEIONIZED SUPPLY
	DEIONIZED RETURN
	HEAT PUMP SUPPLY
	HEAT PUMP RETURN
	HIGH TEMPERATURE WATER
	LOW TEMPERATURE WATER
	RAMP HEATING SUPPLY
	RAMP HEATING RETURN
	MEDICAL AIR
	MEDICAL OXYGEN
	MEDICAL VACUUM
	NITROUS OXIDE
	MEDICAL AIR
	COMPRESSED AIR
	EQUIPMENT DRAIN LINE
	STANDPIPE
	GAS
	HOT GAS
	SUCTION LINE
	LIQUID LINE
	RELIEF VENT
	VENT LINE
	PIPE ANCHOR
	PIPE GUIDE OR SLEEVE
	EXPANSION COMPENSATOR c/w GUIDES
	BOTTOM TAKE-OFF
	TOP TAKE-OFF
	ELBOW UP
	ELBOW DOWN
	VALVE - SEE SPECIFICATIONS
	UNION CONNECTION
	FLANGED CONNECTION
	PLUG CAP
	FLEXIBLE CONNECTION
	LOW WATER CUT OFF
	THERMOMETER
	PRESSURE GAUGE
	PUMP AND DESIGNATION
	AIR VENT
	AUTOMATIC AIR VENT
	PETES PLUG
	FLOW SWITCH
	THERMO WELL
	THERMOSTAT w/GUARD
	FLOW METERING DEVICE (FMD)
	CABINET HEATERS
	CONTINUOUS CONNECTORS
	RADIANT PANELS
	REHEAT COILS
	ABOVE FINISHED FLOOR
	AIR HANDLING UNIT
	CIRCUIT BALANCING VALVE
	GALLONS PER MINUTE
	REHEAT COIL
	REQUIRED
	THERMOSTATIC CONTROL VALVE
	TYPICAL
	HEAT EXCHANGER
	HEATING COIL
	COOLING COIL

LEGEND NOTES:
THESE ARE STANDARD LEGENDS. ALL SYMBOLS MAY NOT NECESSARILY BE USED ON THESE DRAWINGS.

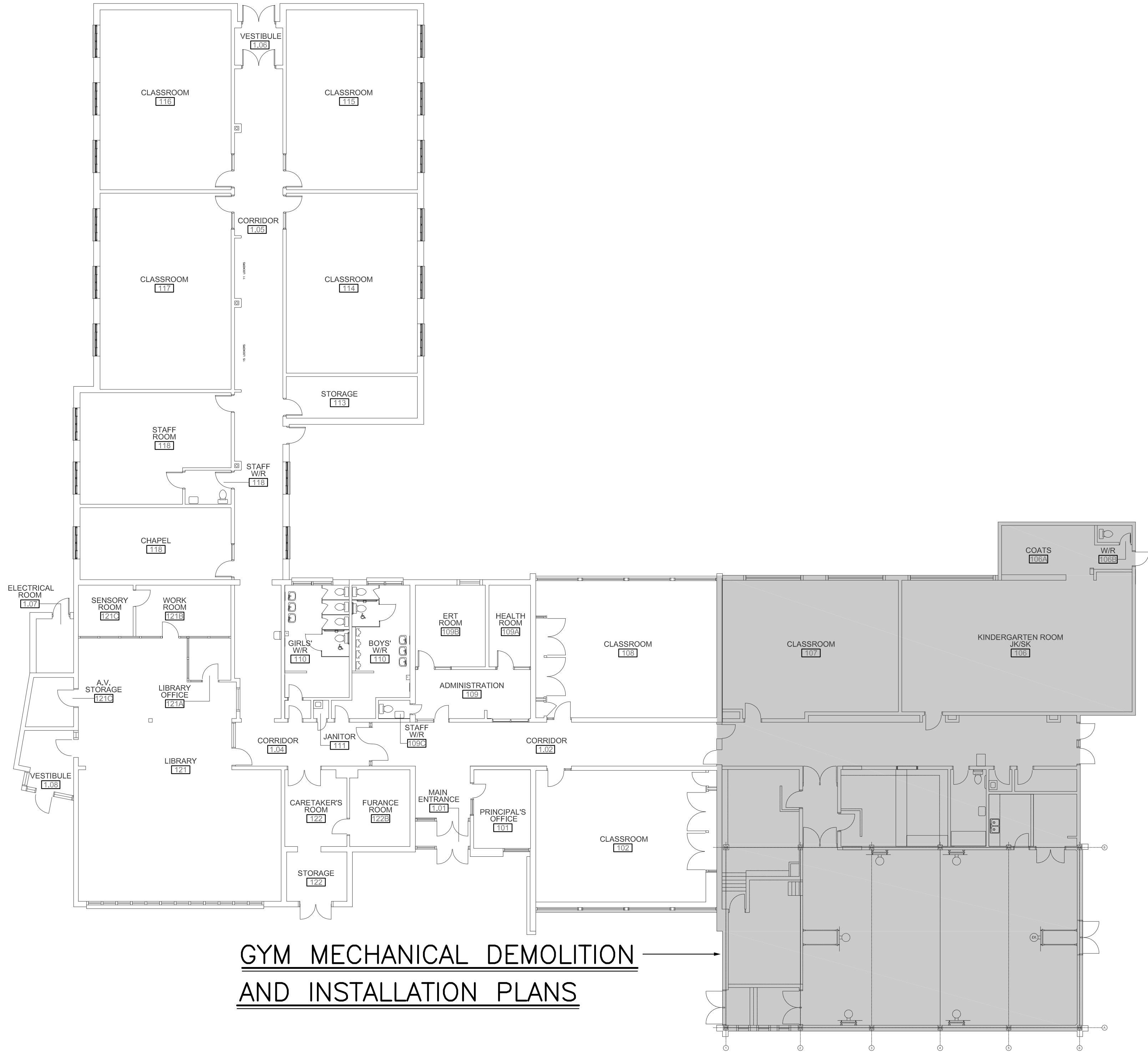
CONTROL LEGEND	
	THERMOSTAT
	THERMOSTAT w/ GUARD
	THERMOSTAT c/w SUB BASE
	HUMIDISTAT
	TEMPERATURE SENSOR
	PRESSURE SWITCH OR SENSOR
	SOLENOID VALVE
	MOTORIZED DAMPER
	PRESSURE GAUGE
	TEMPERATURE GAUGE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	HEATING COIL
	COOLING COIL
	OUTSIDE AIR
	RETURN AIR
	SUPPLY AIR
	EXHAUST AIR
	TEMPERATURE CONTROL VALVE

VALVE LEGEND	
	VALVE - SEE SPEC
	CHECK VALVE
	STRAINER
	PRESSURE REDUCING VALVE
	CONTROL VALVE
	2-WAY CONTROL VALVE
	3-WAY CONTROL VALVE
	RELIEF VALVE
	PLUG VALVE
	SOLENOID VALVE
	NORMALLY CLOSED VALVE
	PET COCK
	HOSE BIBB
	CIRCUIT BALANCE VALVE

DRAWING LIST	
DWG No.	DRAWING TITLE
M1.00	DRAWING LIST, KEY PLAN AND LEGENDS
M2.00	GYM FLOOR PLAN - PLUMBING DEMOLITION
M2.01	GYM FLOOR PLAN - PLUMBING INSTALLATION
M3.00	GYM FLOOR PLAN - HVAC DEMOLITION
M3.01	GYM FLOOR PLAN - HVAC INSTALLATION
M3.02	GYM ROOF PLAN - HVAC DEMOLITION AND INSTALLATION
M4.00	MECHANICAL DETAILS 1
M4.01	MECHANICAL DETAILS 2
ME5.00	MECHANICAL & ELECTRICAL SCHEDULES



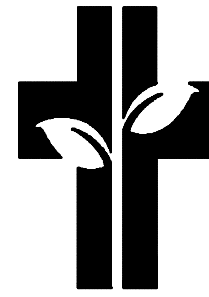
↑ KEY PLAN
N.T.S.



GYM MECHANICAL DEMOLITION
AND INSTALLATION PLANS

GENERAL ARRANGEMENT PLAN

SCALE - 1:150



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4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR PERMIT	2024-01-19
2	ISSUED FOR OWNER REVIEW	2023-12-19
1	ISSUED FOR REVIEW	2023-10-31

NO	REVISIONS	DATE
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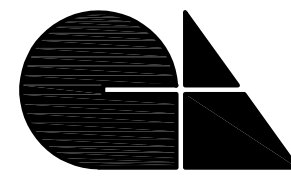
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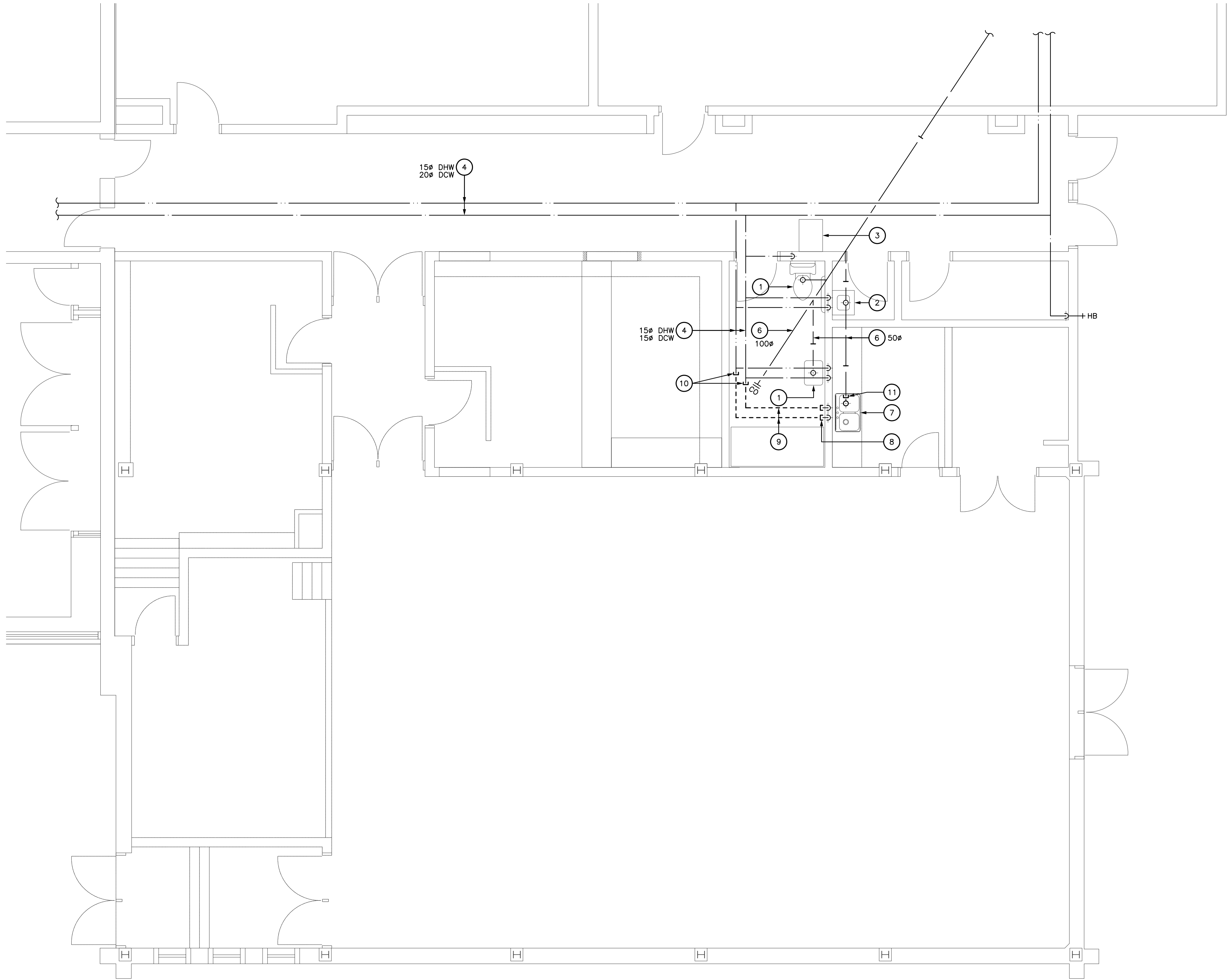
DRAWING LIST, KEY PLAN
AND LEGENDS

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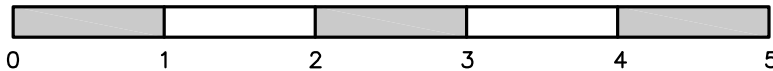
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SCALE: AS NOTED	PROJECT: 2023-11
START DATE: APRIL 2023	
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PRINT DATE	



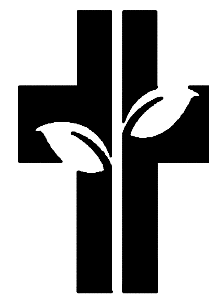
GYM FLOOR PLAN – PLUMBING DEMOLITION

SCALE – 1:50



DRAWING NOTES

- EXISTING WATER CLOSET AND LAVATORY TO REMAIN.
- EXISTING JANITOR SINK TO REMAIN.
- EXISTING DRINKING FOUNTAIN TO REMAIN.
- EXISTING PIPING RUNNING IN CEILING SPACE TO REMAIN. PIPE SERVICE AND PIPE SIZES AS NOTED.
- N O T U S E D
- EXISTING BURIED SANITARY DRAIN TO REMAIN. SIZE AS NOTED.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING STAINLESS STEEL SINK. CUT BACK AND CAP OFF EXISTING DCW, DHW AND SANITARY PIPING CONCEALED IN WALL/CEILING SPACE/BELOW FLOOR, AS APPLICABLE.
- CUT BACK AND CAP OFF EXISTING 15# DCW AND 15# DHW PIPING CONCEALED IN WALL. GENERAL CONTRACTOR TO MAKE GOOD WALL TO MATCH EXISTING CONDITIONS.
- REMOVE DISCONNECTED EXISTING 15# DCW AND 15# DHW PIPING IN CEILING SPACE.
- CUT BACK AND CAP OFF EXISTING 15# DCW AND 15# DHW PIPING IMMEDIATELY DOWNSTREAM OF LAST FIXTURE RUNOUTS.
- CUT BACK AND CAP OFF EXISTING SANITARY PIPING CONCEALED BELOW FLOOR. GENERAL CONTRACTOR TO MAKE GOOD FLOOR TO MATCH EXISTING CONDITIONS.



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NO	REVISIONS	DATE
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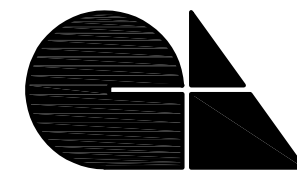


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PLUMBING DEMOLITION

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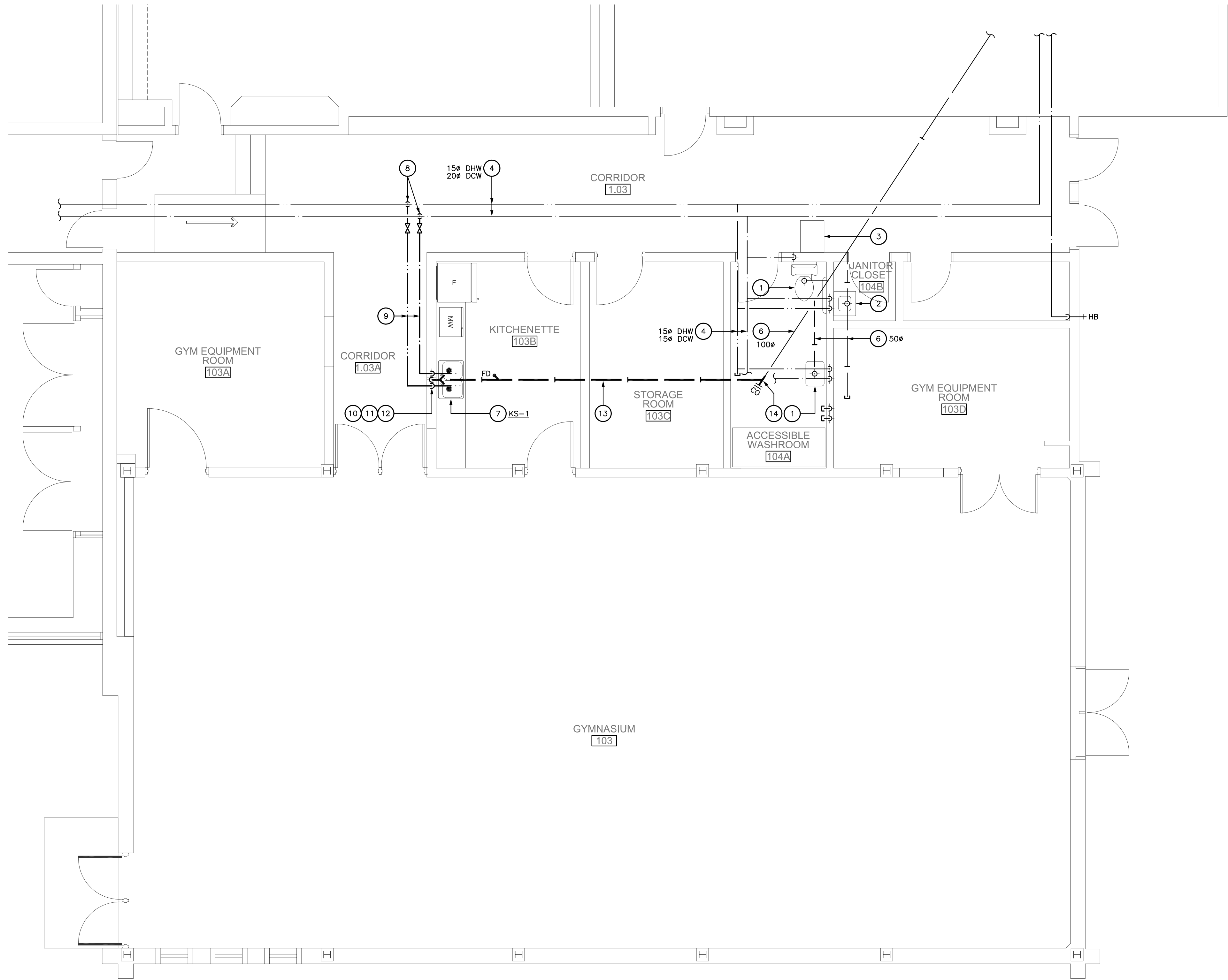


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GENERAL NOTES

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- CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT
- RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK
- REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE
- CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION
- REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP AT MAIN
- THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK

SCALE:	PROJECT:
AS NOTED	
START DATE:	2023-11
APRIL 2023	
DRAWN	DRAWING:
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GYM FLOOR PLAN – PLUMBING INSTALLATION



DRAWING NOTES

- 1 EXISTING WATER CLOSET AND LAVATORY TO REMAIN.
- 2 EXISTING JANITOR SINK TO REMAIN.
- 3 EXISTING DRINKING FOUNTAIN TO REMAIN.
- 4 EXISTING PIPING RUNNING IN CEILING SPACE TO REMAIN. PIPE SERVICE AND PIPE SIZES AS NOTED.
- 5 N O T U S E D
- 6 EXISTING BURIED 100# SANITARY DRAIN TO REMAIN.
- 7 SUPPLY AND INSTALL NEW STAINLESS STEEL SINK 'KS-1'.
- 8 CONNECT NEW 15# DHW AND 15# DCW TO EXISTING DHW AND DCW PIPING, COMPLETE WITH ISOLATION VALVES.
- 9 RUN NEW 15# DHW AND 15# DCW CONCEALED IN CEILING SPACE.
- 10 DROP NEW 15# DHW AND 15# DCW DOWN CONCEALED IN WALL TO NEW KS-1.
- 11 DROP NEW 40# SANITARY DRAIN CONCEALED IN WALL TO BELOW FLOOR AND INCREASE PIPE SIZE TO 80#.
- 12 RISE NEW 32# VENT CONCEALED IN WALL AND TERMINATE ABOVE ROOF. TERMINATION AS PER O.B.C., SECTION 7.
- 13 RUN NEW 80# SANITARY DRAIN BURIED BELOW FLOOR. GENERAL DIVISION TO SAW CUT FLOOR, EXCAVATE, BACKFILL AND RESTORE FLOOR SLAB TO MATCH EXISTING SLAB. ROUTING OF DRAIN TO BE FIELD VERIFIED.
- 14 CONNECT NEW 80# SANITARY DRAIN TO EXISTING 100# SANITARY DRAIN. TIE-IN LOCATION TO BE FIELD VERIFIED. EXISTING SANITARY INVERT TO BE FIELD VERIFIED.



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NO	REVISIONS	DATE

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GYM FLOOR PLAN -
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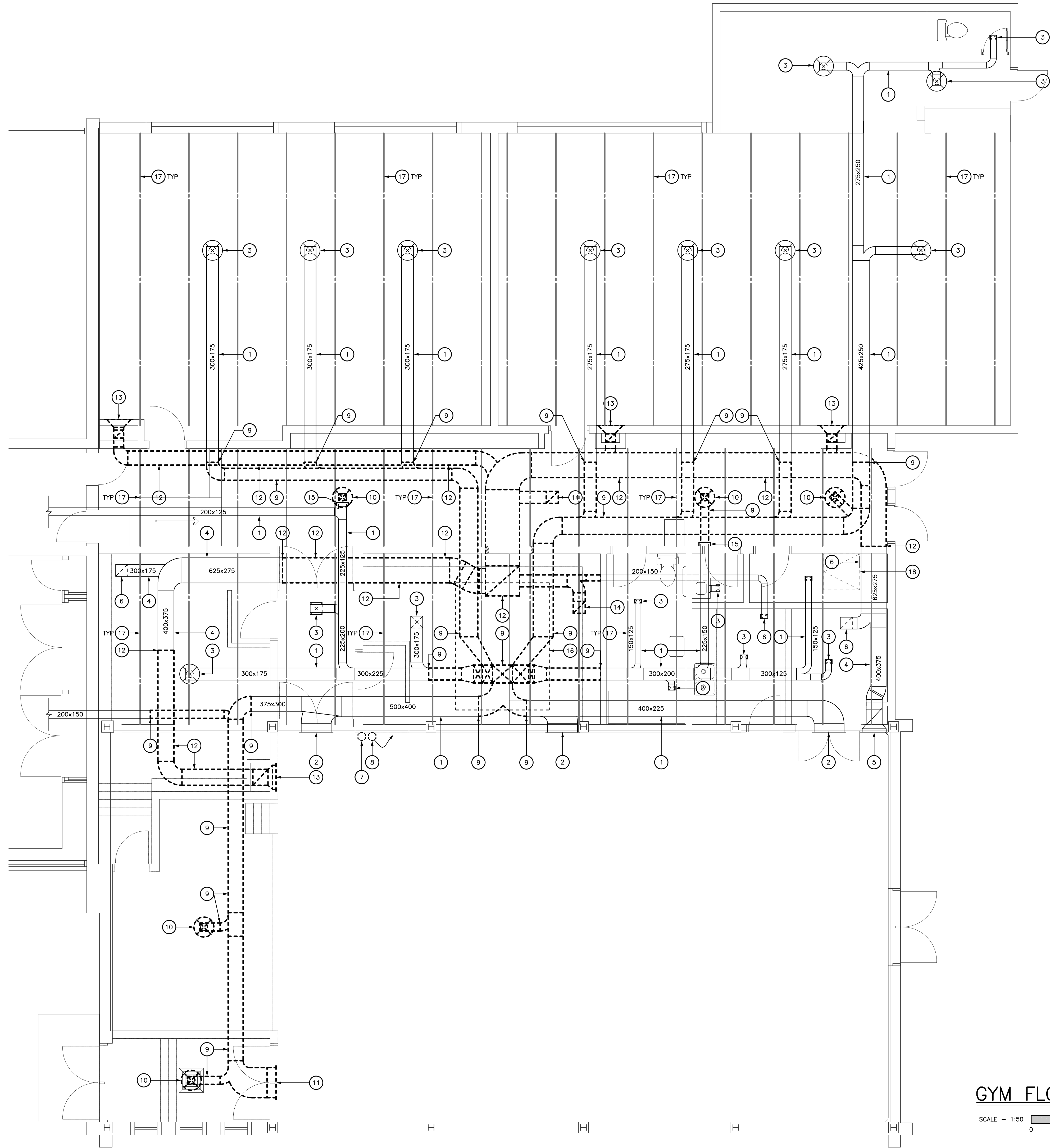
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- B. CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT
- C. RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK
- D. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE
- E. CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION
- F. REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP AT MAIN
- G. THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK

SCALE: AS NOTED	PROJECT: 2023-11
START DATE: APRIL 2023	
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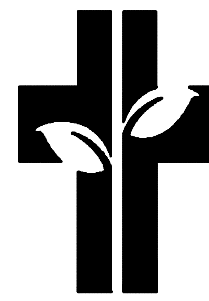


GYM FLOOR PLAN – HVAC DEMOLITION



DRAWING NOTES

- EXISTING SUPPLY AIR DUCTWORK TO REMAIN.
- EXISTING WALL-MOUNTED SUPPLY AIR GRILLE AND ASSOCIATED SUPPLY AIR DUCTWORK TO REMAIN.
- EXISTING SUPPLY AIR DIFFUSER / GRILLE TO REMAIN.
- EXISTING RETURN AIR DUCTWORK TO REMAIN.
- EXISTING WALL-MOUNTED RETURN AIR GRILLE AND ASSOCIATED RETURN AIR DUCTWORK TO REMAIN.
- EXISTING RETURN AIR GRILLE TO REMAIN.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING THERMOSTAT.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING NIGHT THERMOSTAT.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING SUPPLY AIR DUCTWORK.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING SUPPLY AIR DIFFUSER / GRILLE.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING WALL-MOUNTED SUPPLY AIR GRILLE AND ASSOCIATED SUPPLY AIR DUCTWORK.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING RETURN AIR DUCTWORK.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING WALL-MOUNTED RETURN AIR GRILLE AND ASSOCIATED RETURN AIR DUCTWORK.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING RETURN AIR GRILLE.
- CAP OFF EXISTING DISCONNECTED SUPPLY AIR DUCTWORK.
- OUTLINE OF EXISTING ROOFTOP UNIT ABOVE TO BE REMOVED. SEE ROOF PLAN DRAWING M3.02.
- EXISTING ROOF JOISTS.
- EXISTING ROOF HATCH.



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NO	REVISIONS	DATE

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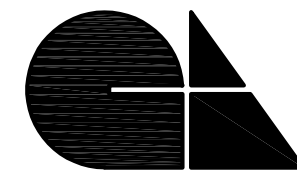
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SCALE:

AS NOTED

START DATE:

APRIL 2023

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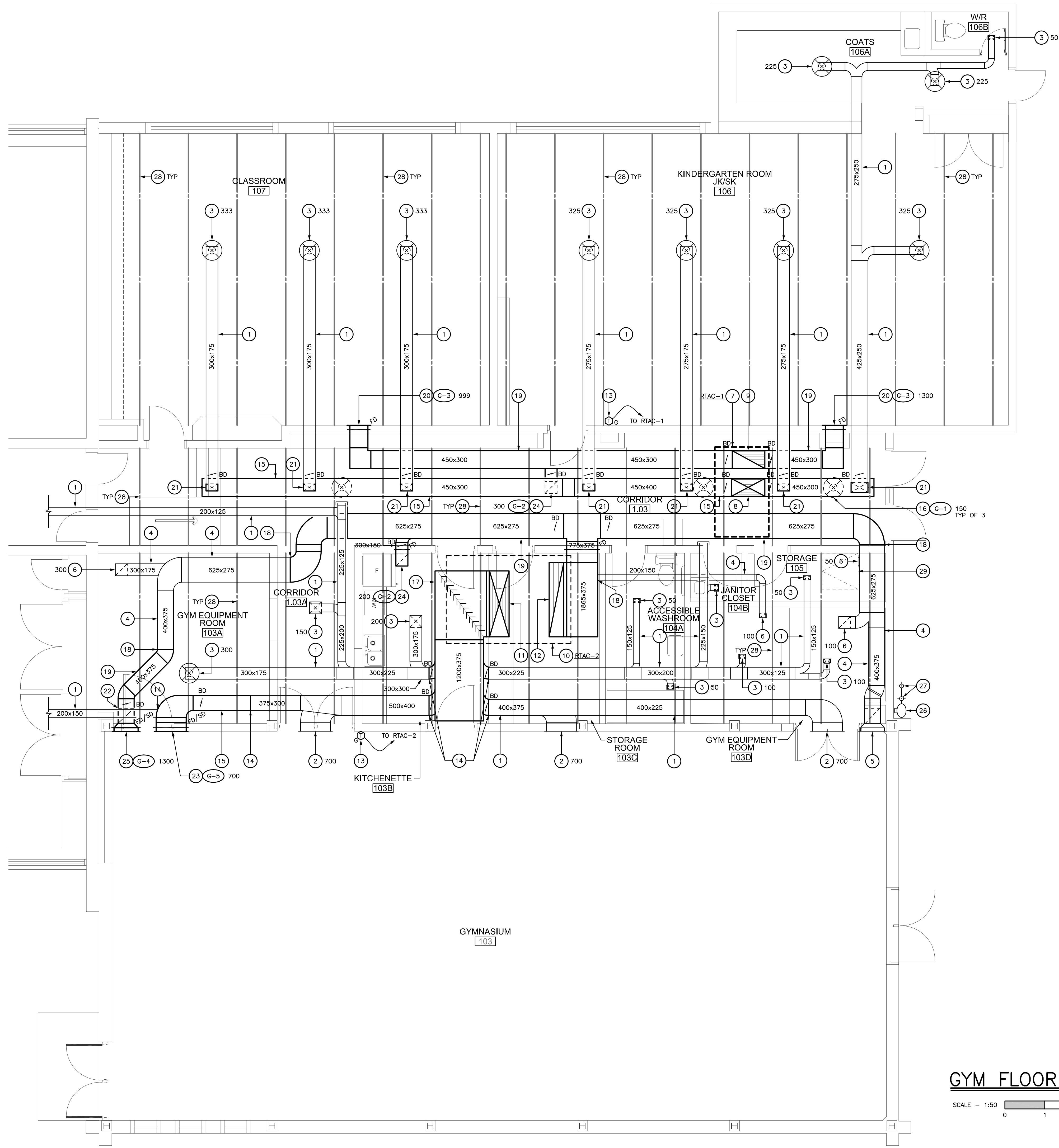
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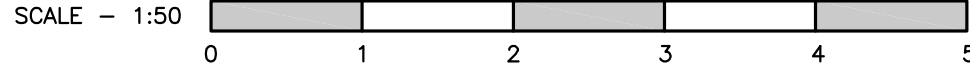
2023-11

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M3.00



GYM FLOOR PLAN – HVAC INSTALLATION

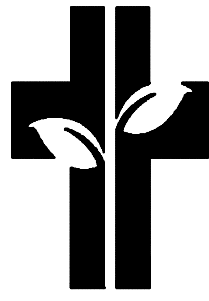


DRAWING NOTES

- EXISTING SUPPLY AIR DUCTWORK TO REMAIN.
- EXISTING WALL-MOUNTED SUPPLY AIR GRILLE AND ASSOCIATED SUPPLY AIR DUCTWORK TO REMAIN. BALANCE TO CFM NOTED.
- EXISTING SUPPLY AIR DIFFUSER / GRILLE TO REMAIN. BALANCE TO CFM NOTED.
- EXISTING RETURN AIR DUCTWORK TO REMAIN.
- EXISTING WALL-MOUNTED RETURN AIR GRILLE AND ASSOCIATED RETURN AIR DUCTWORK TO REMAIN. BALANCE TO CFM NOTED.
- EXISTING RETURN AIR GRILLE TO REMAIN. BALANCE TO CFM NOTED.
- OUTLINE OF NEW ROOFTOP UNIT RTAC-1 ABOVE. SEE DRAWING M3.02 FOR DETAILS.
- NEW 815x445 INSULATED SUPPLY AIR DUCT RISER FROM NEW RTAC-1 UNIT MOUNTED ON ROOF ABOVE. FOR CONTINUATION SEE DRAWING M3.02.
- NEW 840x445 INSULATED RETURN AIR DUCT RISER TO NEW RTAC-1 UNIT MOUNTED ON ROOF ABOVE. FOR CONTINUATION SEE DRAWING M3.02.
- OUTLINE OF NEW ROOFTOP UNIT RTAC-2 ABOVE. SEE DRAWING M3.02 FOR DETAILS.
- NEW 1650x475 INSULATED SUPPLY AIR DUCT RISER FROM NEW RTAC-2 UNIT MOUNTED ON ROOF ABOVE. FOR CONTINUATION SEE DRAWING M3.02.
- NEW 1865x355 INSULATED RETURN AIR DUCT RISER TO NEW RTAC-2 UNIT MOUNTED ON ROOF ABOVE. FOR CONTINUATION SEE DRAWING M3.02.
- SUPPLY AND INSTALL NEW THERMOSTAT FOR NEW RTAC UNIT MOUNTED ON ROOF ABOVE. C/W LOCKABLE GUARD. MOUNT THERMOSTAT 2100 A.F.F.
- CONNECT NEW SUPPLY AIR DUCTWORK TO EXISTING SUPPLY AIR DUCTWORK. FIELD VERIFY EXISTING DUCT SIZE.
- SUPPLY AND INSTALL NEW SUPPLY AIR DUCTWORK CONCEALED IN CEILING SPACE. SIZE AS NOTED.
- SUPPLY AND INSTALL NEW SUPPLY AIR DIFFUSER. BALANCE TO CFM NOTED. COORDINATE DIFFUSER LOCATION WITH CEILING GRID AND LIGHTING.
- DUCT ELBOW COMPLETE WITH TURNING VANES.
- CONNECT NEW RETURN AIR DUCTWORK TO EXISTING EXHAUST AIR DUCTWORK. FIELD VERIFY EXISTING DUCT SIZE.
- SUPPLY AND INSTALL NEW RETURN AIR DUCTWORK CONCEALED IN CEILING SPACE. SIZE AS NOTED.
- SUPPLY AND INSTALL NEW RETURN AIR GRILLE. BALANCE TO CFM NOTED. COORDINATE GRILLE LOCATION WITH CEILING GRID AND LIGHTING.
- RISE NEW SUPPLY AIR DUCTWORK UP AND CONNECT TO EXISTING SUPPLY AIR DUCTWORK RUNNING IN JOIST SPACE. C/W NEW BALANCING DAMPER. FIELD VERIFY EXISTING DUCT SIZE.
- DROP NEW 400x375 RETURN AIR DUCTWORK IN CORNER OF ROOM TO NEW RETURN AIR GRILLE AT LOW LEVEL.
- SUPPLY AND INSTALL NEW WALL-MOUNTED SUPPLY AIR GRILLE C/W FIRE/SMOKE DAMPER TO MATCH ELEVATION OF EXISTING WALL-MOUNTED SUPPLY AIR GRILLES. BALANCE TO CFM NOTED.
- SUPPLY AND INSTALL NEW RETURN AIR GRILLE COMPLETE WITH CONNECTING DUCTWORK AND BALANCING DAMPER. BALANCE TO CFM NOTED. COORDINATE GRILLE LOCATION WITH CEILING GRID AND LIGHTING.
- SUPPLY AND INSTALL NEW WALL-MOUNTED RETURN AIR GRILLE C/W FIRE/SMOKE DAMPER TO MATCH ELEVATION OF EXISTING WALL-MOUNTED RETURN AIR GRILLE. BALANCE TO CFM NOTED.
- EXISTING GAS METER TO REMAIN. MECHANICAL CONTRACTOR TO REVIEW METER SIZE WITH LOCAL GAS PROVIDER TO DETERMINE IF METER HAS SUFFICIENT CAPACITY FOR AN ADDITIONAL 100 MBH LOAD.
- EXISTING 65# NATURAL GAS RISERS TO ROOF ABOVE TO REMAIN. FOR CONTINUATION SEE DRAWING M3.02.
- EXISTING ROOF JOISTS.
- EXISTING ROOF HATCH.

GENERAL NOTES

- A. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, MINISTRY OF THE ENVIRONMENT, MINISTRY OF LABOUR, CITY OF HAMILTON AND OTHER AUTHORITIES HAVING JURISDICTION WHICH ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SPECIFICATIONS
- B. CONTRACTOR TO FIELD LOCATE ALL EXISTING SERVICES THAT ARE REQUIRED FOR THIS PROJECT
- C. RELOCATE OR REROUTE EXISTING MECHANICAL EQUIPMENT AS REQUIRED TO ACCOMMODATE NEW WORK
- D. REMOVE ALL REDUNDANT PIPES, CONDUITS INCLUDING LOOSE WIRES AND DUCTWORK COMPLETE
- E. CONTRACTOR TO IDENTIFY ALL SERVICES PRIOR TO DEMOLITION
- F. REMOVE ALL UNUSED PIPING, DUCTWORK AND CONTROLS. CAP AT MAIN
- G. THE EXISTING SERVICES SHOWN ON THIS DRAWING HAVE BEEN TAKEN FROM THE ORIGINAL AS-BUILT DRAWINGS. THIS INFORMATION MUST NOT BE ASSUMED TO BE COMPLETE OR UP-TO-DATE. THE MECHANICAL CONTRACTOR SHALL CARRY OUT A FULL SURVEY OF ALL EXISTING SERVICES AND STRUCTURE TO CONFIRM THE SIZE AND LOCATION OF THESE SERVICES, BEFORE THE COMMENCEMENT OF ANY WORK



NIAGARA CATHOLIC
DISTRICT SCHOOL BOARD

NO	REVISIONS	DATE
4	ISSUED FOR TENDER	2024-01-23
3	ISSUED FOR PERMIT	2024-01-19
2	ISSUED FOR OWNER REVIEW	2023-12-19
1	ISSUED FOR REVIEW	2023-10-31

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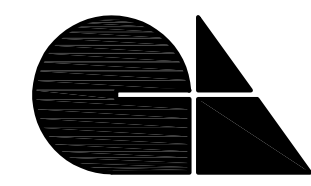


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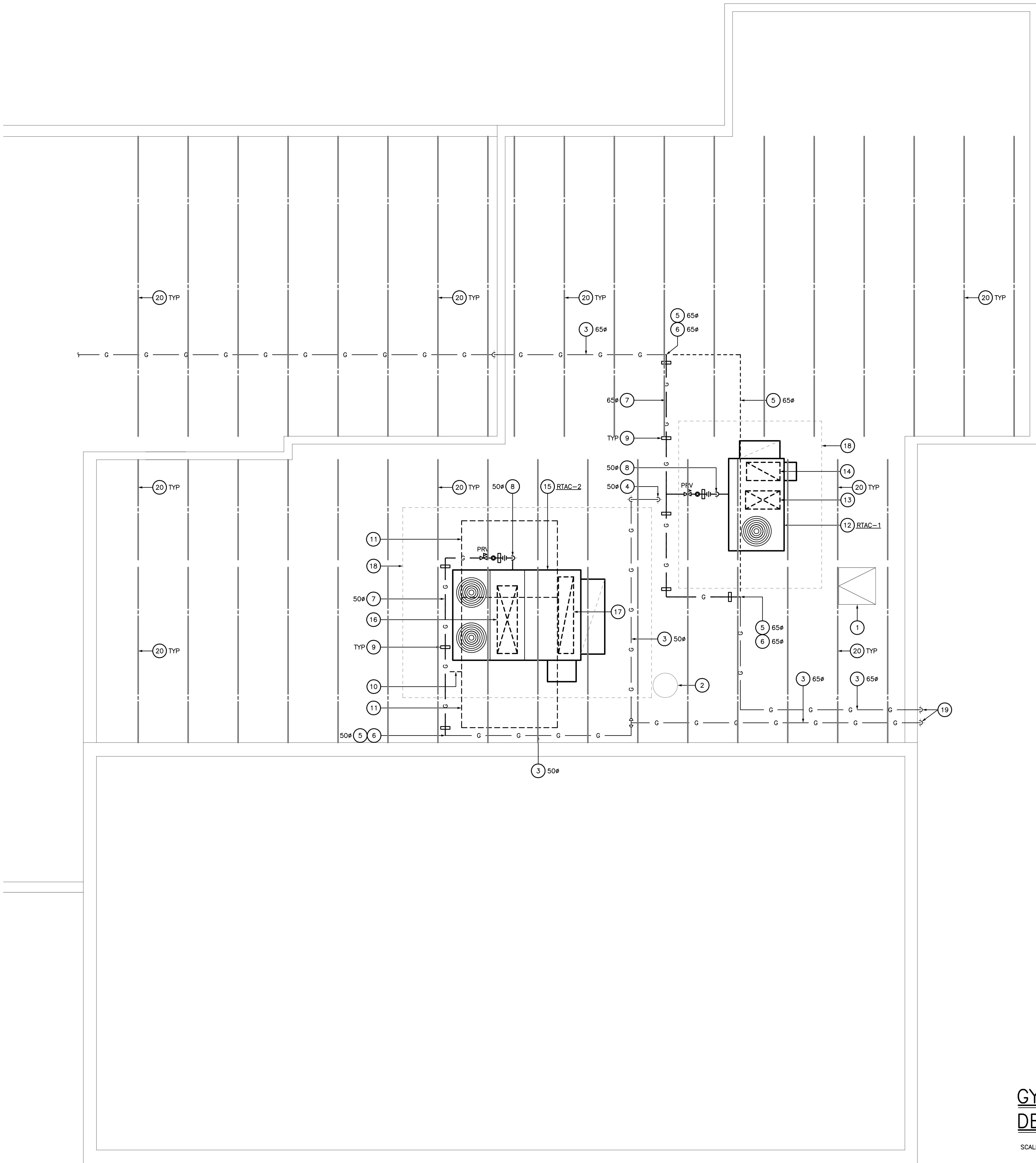
GYM FLOOR PLAN -
HVAC INSTALLTION

GRGURIC
ARCHITECTS
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START DATE: APRIL 2023	
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GYM ROOF PLAN – HVAC DEMOLITION AND INSTALLATION

SCALE – 1:50

DRAWING NOTES

- EXISTING ROOF HATCH.
- EXISTING ALUMINUM DOME EXHAUST FAN TO REMAIN
- EXISTING NATURAL GAS PIPE TO REMAIN. SIZE AS NOTED, TO BE FIELD VERIFIED BY CONTRACTOR.
- EXISTING NATURAL GAS PIPE DROPPING DOWN THROUGH ROOF TO REMAIN. SIZE AS NOTED, TO BE FIELD VERIFIED BY CONTRACTOR.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING NATURAL GAS PIPE. PIPE SIZE AS NOTED. CONTRACTOR TO FIELD VERIFY PIPE SIZE.
- CONNECT NEW NATURAL GAS PIPE TO EXISTING NATURAL GAS PIPE. PIPE SIZE AS NOTED. CONTRACTOR TO FIELD VERIFY PIPE SIZE.
- RUN NEW NATURAL GAS PIPE ACROSS ROOF. PIPE SIZE AS NOTED.
- CONNECT NEW 50# NATURAL GAS PIPE TO NEW RTAC UNIT COMPLETE WITH ISOLATION VALVE, PRESSURE REGULATING VALVE, UNION AND DIRT LEG. REDUCE PIPE SIZE TO UNIT CONNECTION SIZE.
- SUPPLY AND INSTALL GAS PIPING SUPPORTS AT MAXIMUM 2400mm SPACING FOR NEW NATURAL GAS PIPING. SEE DETAIL, DRAWING M4.00.
- DISCONNECT, REMOVE AND DISPOSE OF EXISTING NATURAL GAS PIPING TO EXISTING RTAC UNIT, INCLUDING ISOLATION VALVE, PRESSURE REGULATING VALVE, UNION AND DIRT LEG.
- OUTLINE OF EXISTING ROOFTOP UNIT AND ASSOCIATED TRANSITION ROOF CURB TO BE REMOVED. DISCONNECT, REMOVE AND DISPOSE OF ALL DUCTWORK, GAS PIPING, CONTROL WIRING AND ASSOCIATED ACCESSORIES. ELECTRICAL CONTRACTOR TO DISCONNECT POWER WIRING TO UNIT. GENERAL CONTRACTOR TO REPAIR AND MAKE WEATHERTIGHT THE EXISTING ROOF OPENINGS, AS REQUIRED IN PREPARATION FOR NEW RTAC UNIT AND ROOF CURB.
- SUPPLY AND INSTALL NEW ROOFTOP UNIT RTAC-1 AND ASSOCIATED ROOF CURB. CONNECT ALL DUCTWORK, GAS PIPING, CONTROL WIRING AND ASSOCIATED ACCESSORIES. ELECTRICAL CONTRACTOR TO CONNECT POWER WIRING TO UNIT.
- DROP NEW 815x445 INSULATED SUPPLY AIR RISER DUCT DOWN THROUGH ROOF. FOR CONTINUATION ON GROUND FLOOR SEE DRAWING M3.01.
- DROP NEW 840x445 INSULATED RETURN AIR RISER DUCT DOWN THROUGH ROOF. FOR CONTINUATION ON GROUND FLOOR SEE DRAWING M3.01.
- SUPPLY AND INSTALL NEW ROOFTOP UNIT RTAC-2 AND ASSOCIATED ROOF CURB. CONNECT ALL DUCTWORK, GAS PIPING, CONTROL WIRING AND ASSOCIATED ACCESSORIES. ELECTRICAL CONTRACTOR TO CONNECT POWER WIRING TO UNIT.
- DROP NEW 1650x475 INSULATED SUPPLY AIR RISER DUCT DOWN THROUGH ROOF. FOR CONTINUATION ON GROUND FLOOR SEE DRAWING M3.01.
- DROP NEW 1865x355 INSULATED RETURN AIR RISER DUCT DOWN THROUGH ROOF. FOR CONTINUATION ON GROUND FLOOR SEE DRAWING M3.01.
- OUTLINE OF RTAC UNIT SERVICE CLEARANCE REQUIREMENTS.
- EXISTING 65# NATURAL GAS PIPE DROPPING DOWN TO EXISTING GAS METER BELOW. FOR CONTINUATION SEE DRAWING M3.01.
- OUTLINE OF ROOF JOISTS.



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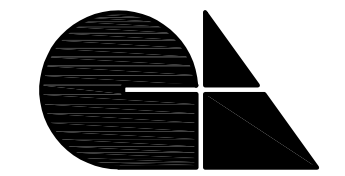
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GYM ROOF PLAN - HVAC
DEMOLITION AND
INSTALLATION

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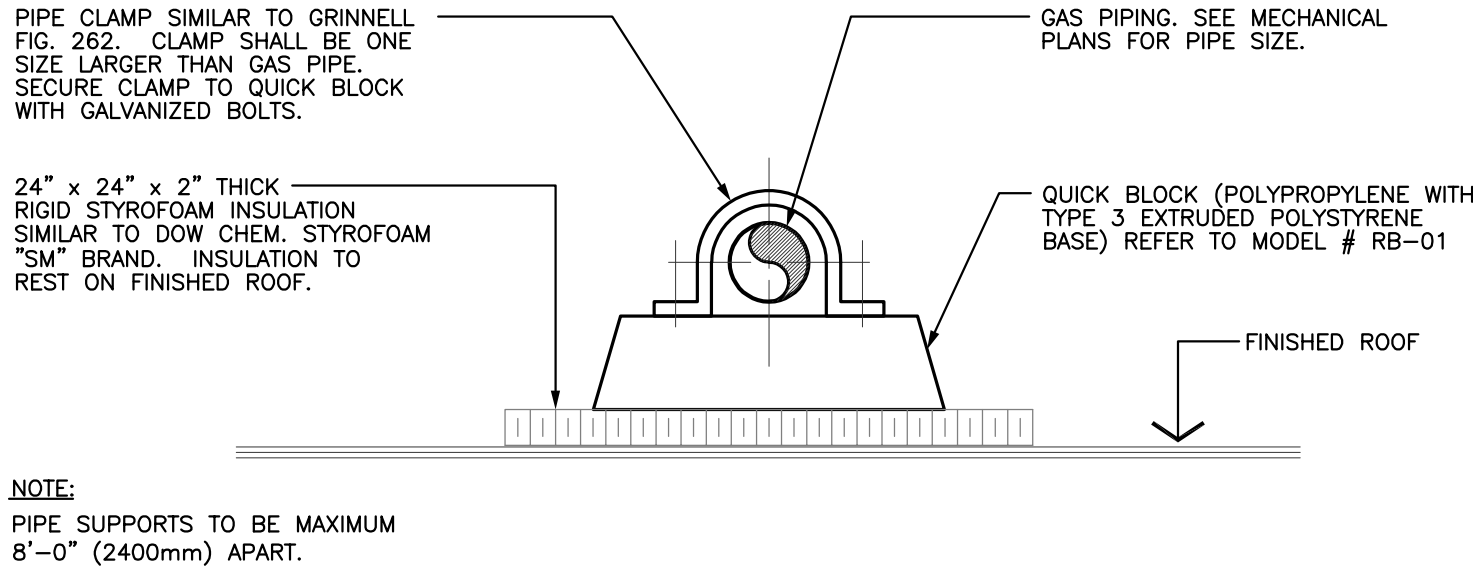


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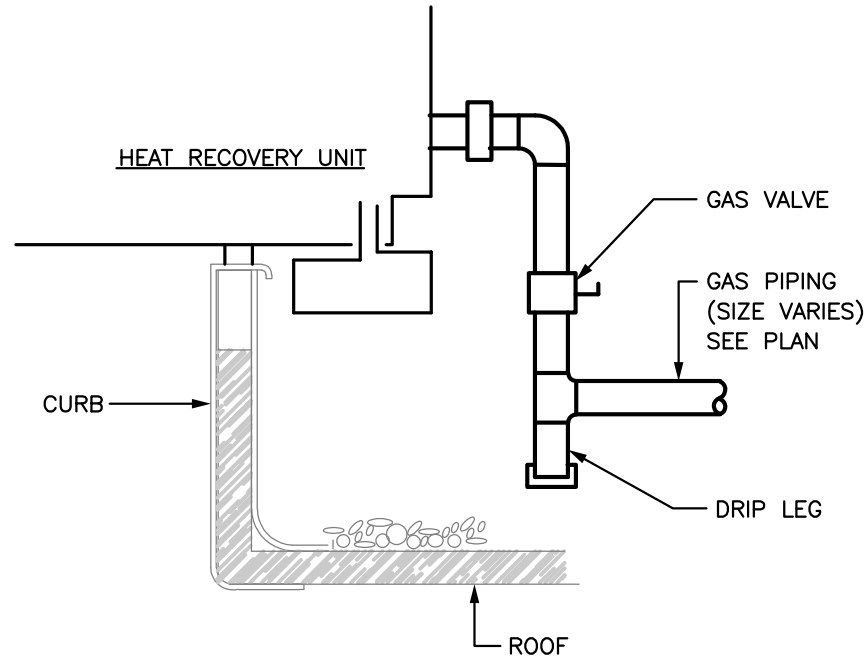
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START DATE: APRIL 2023	
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GENERAL NOTES

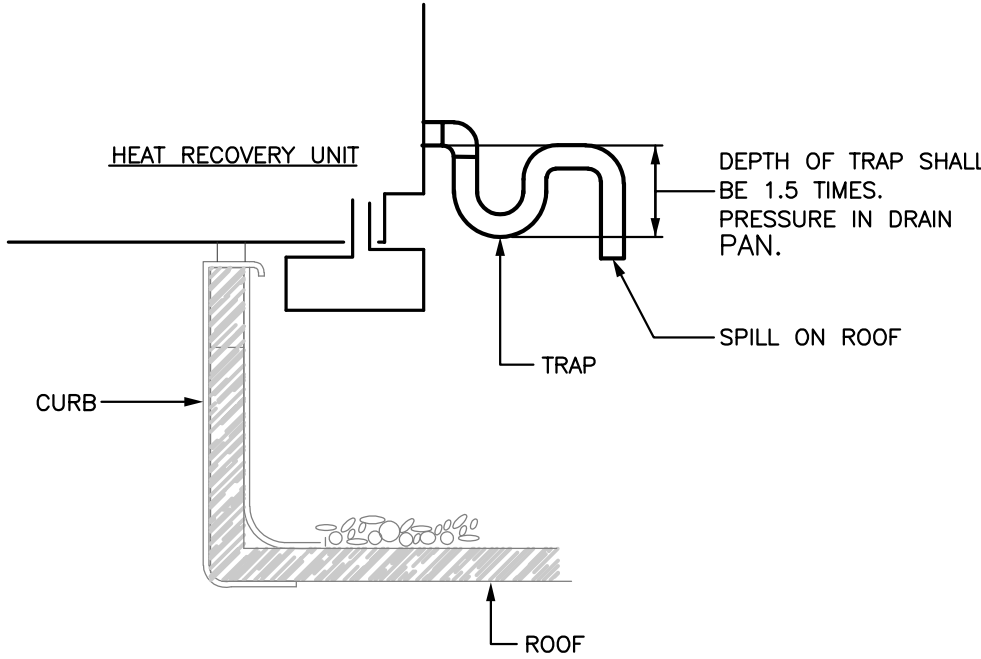
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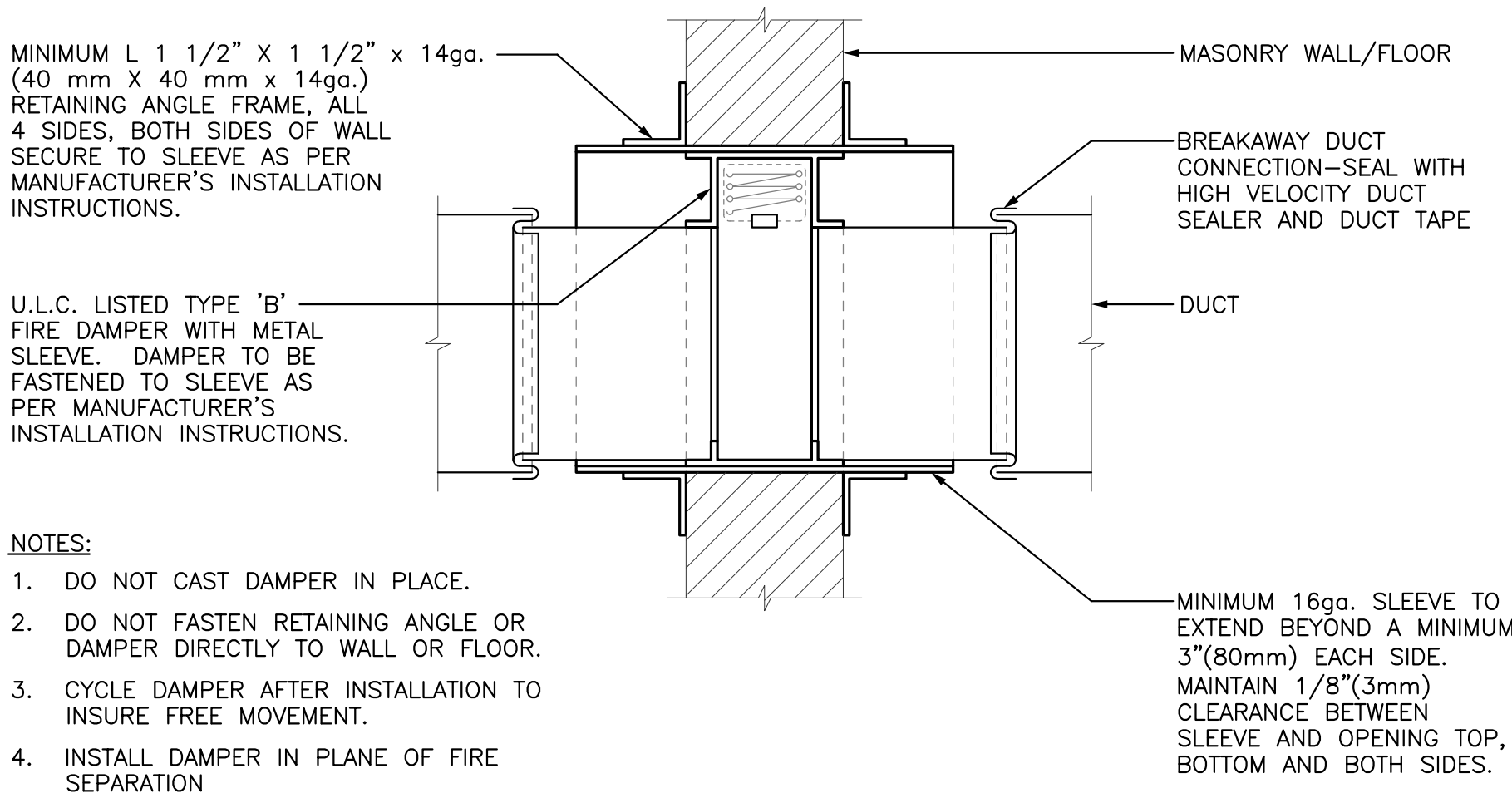
TYPICAL GAS PIPING SUPPORT ON ROOF
N.T.S.



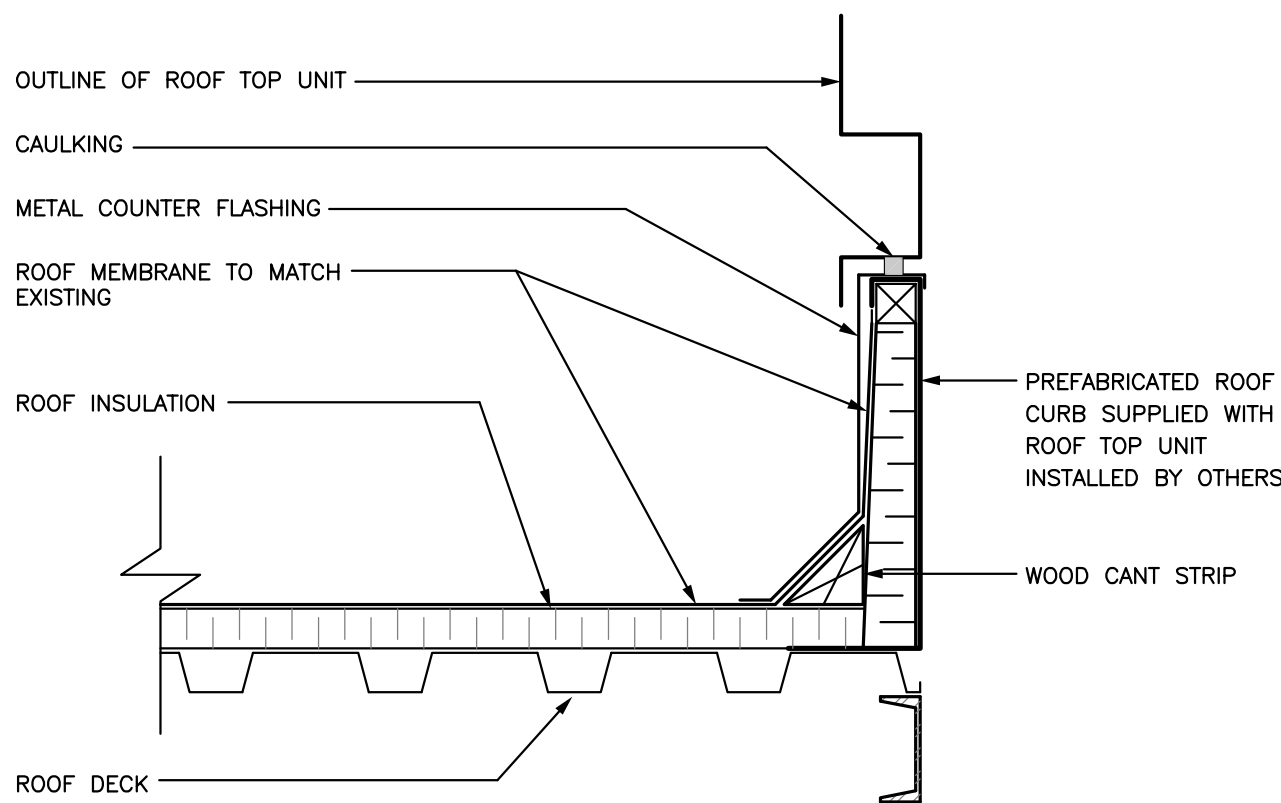
GAS PIPE CONNECTION DETAIL
N.T.S.



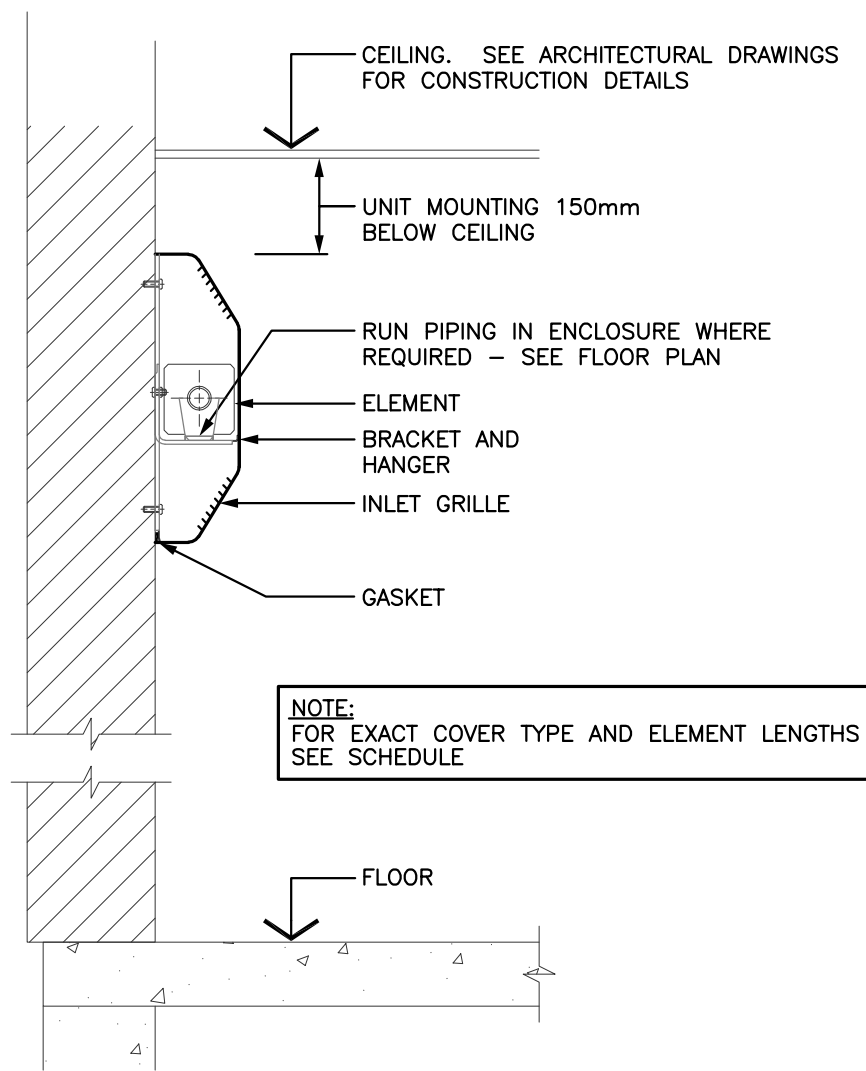
CONDENSATE DRAIN DETAIL
N.T.S.



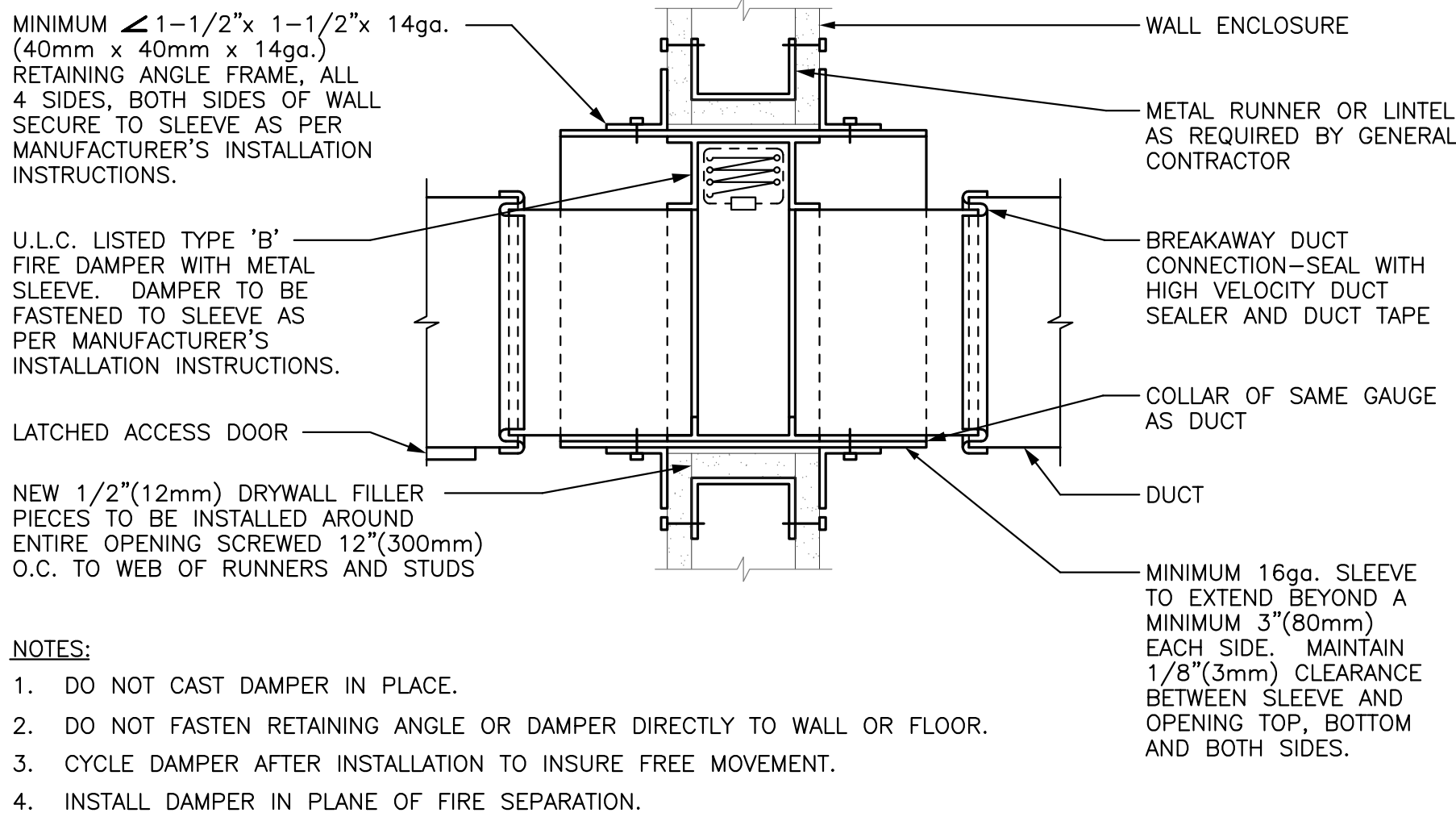
DETAIL OF FIRE DAMPER IN MASONRY WALL
N.T.S.



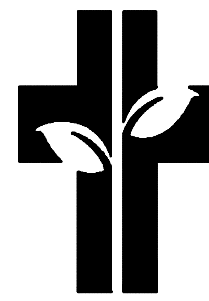
DETAIL – TYPICAL ROOF CURB
N.T.S.



ENCLOSURE ARRANGEMENT
N.T.S.



DETAIL OF FIRE DAMPER IN DUCT (TYPE 'B')
N.T.S.



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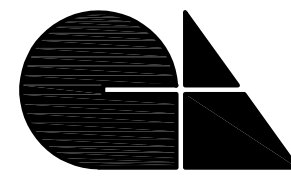
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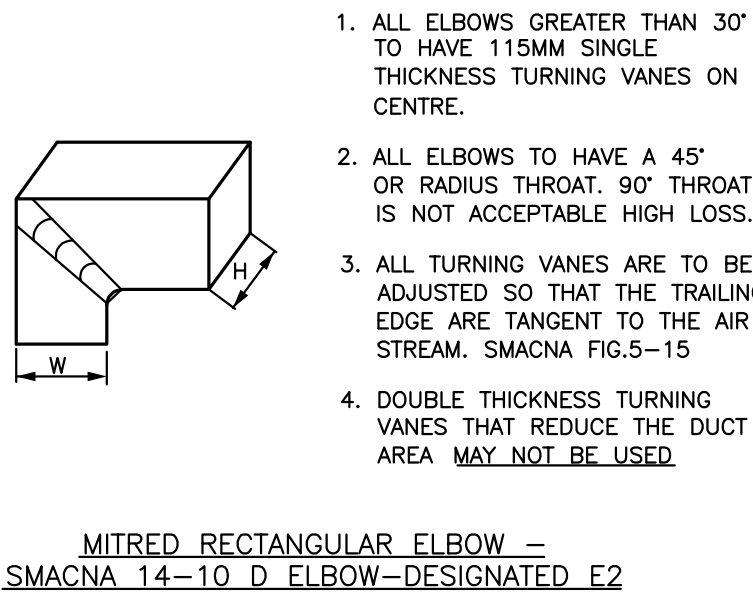
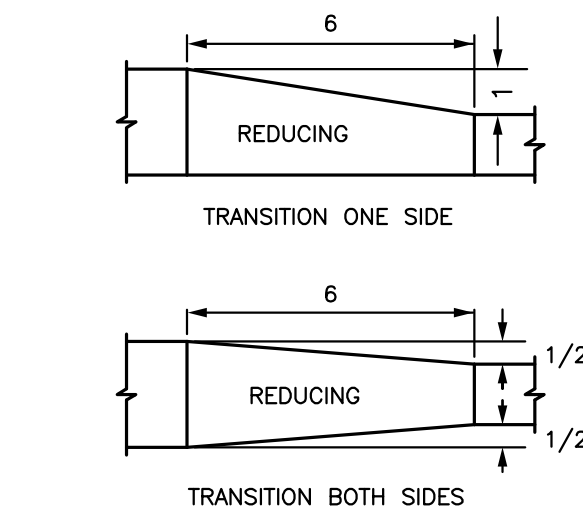
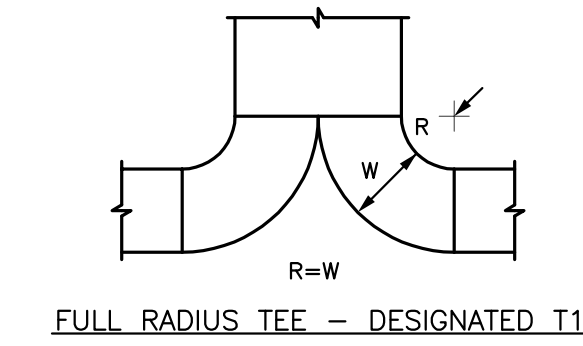
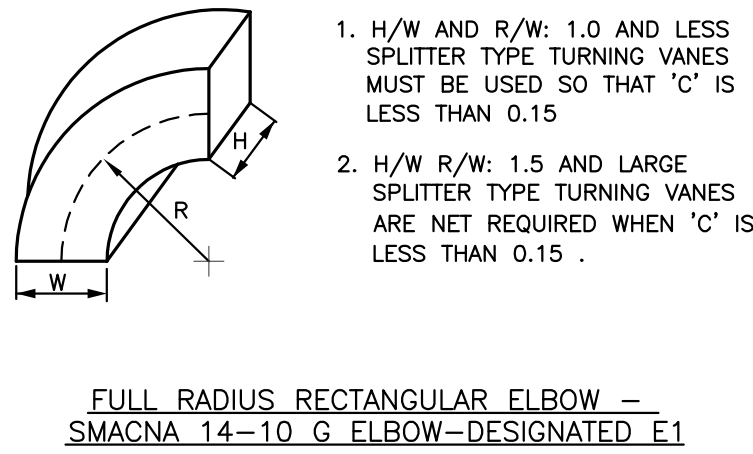
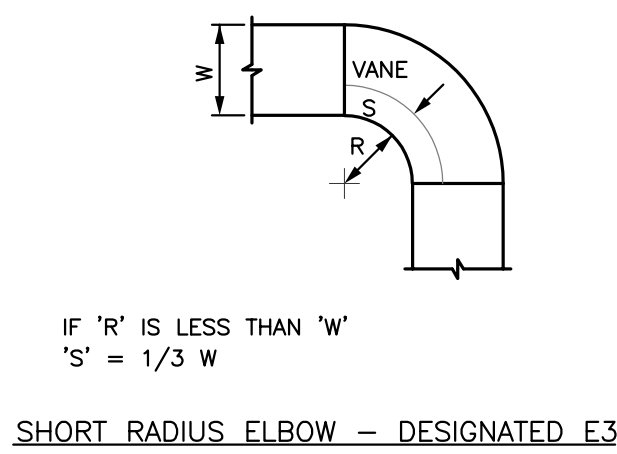
MECHANICAL DETAILS 1

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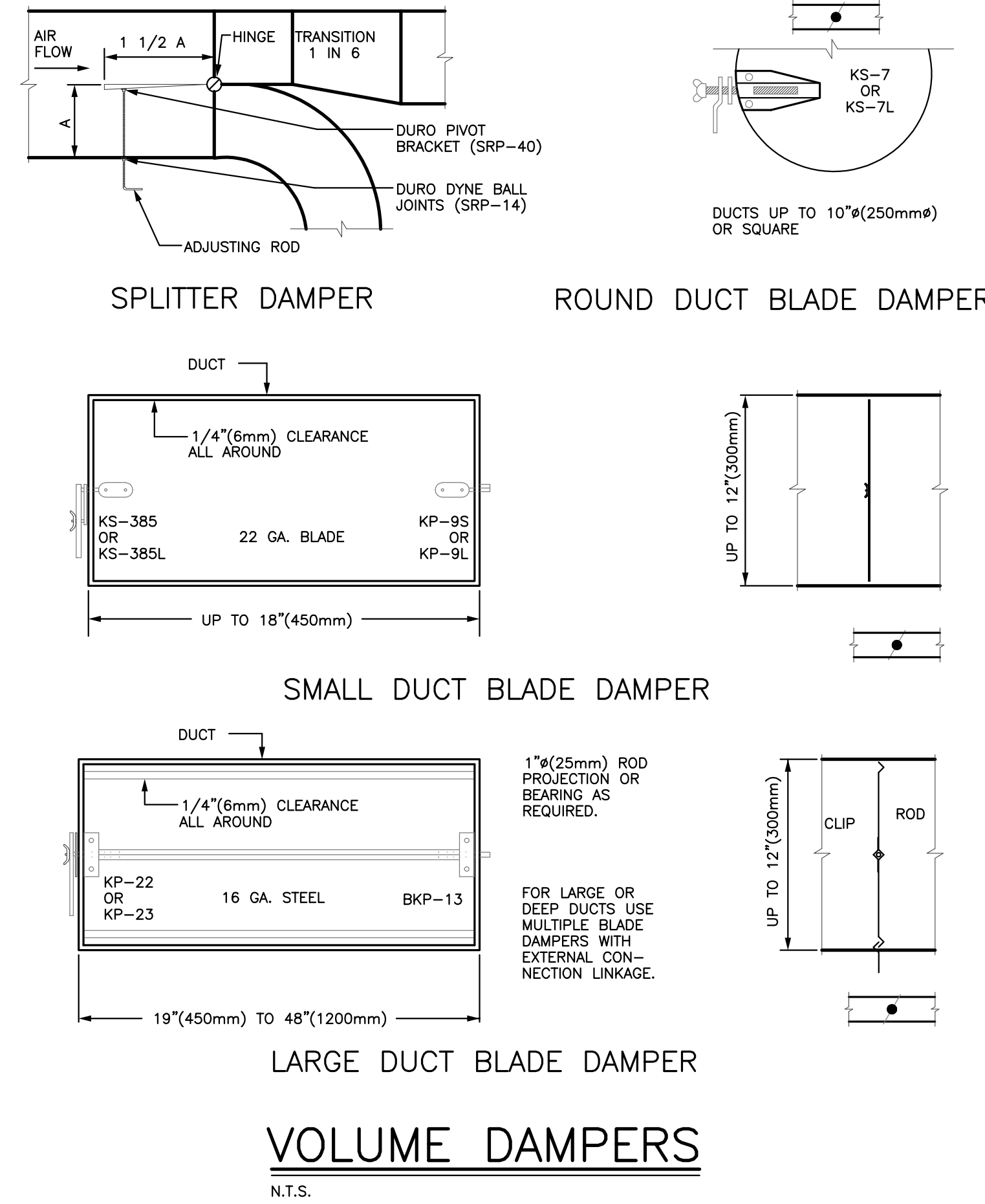
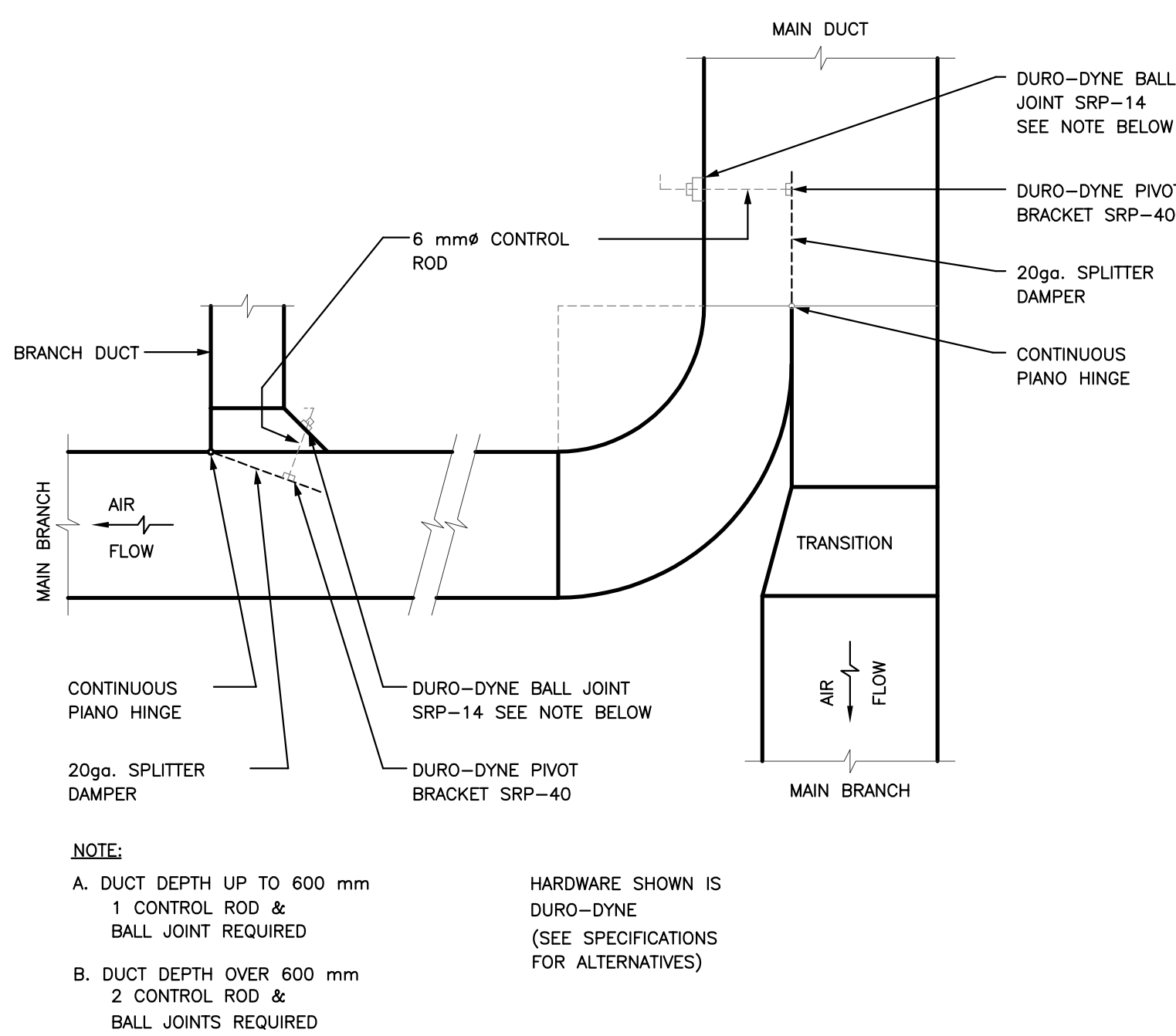
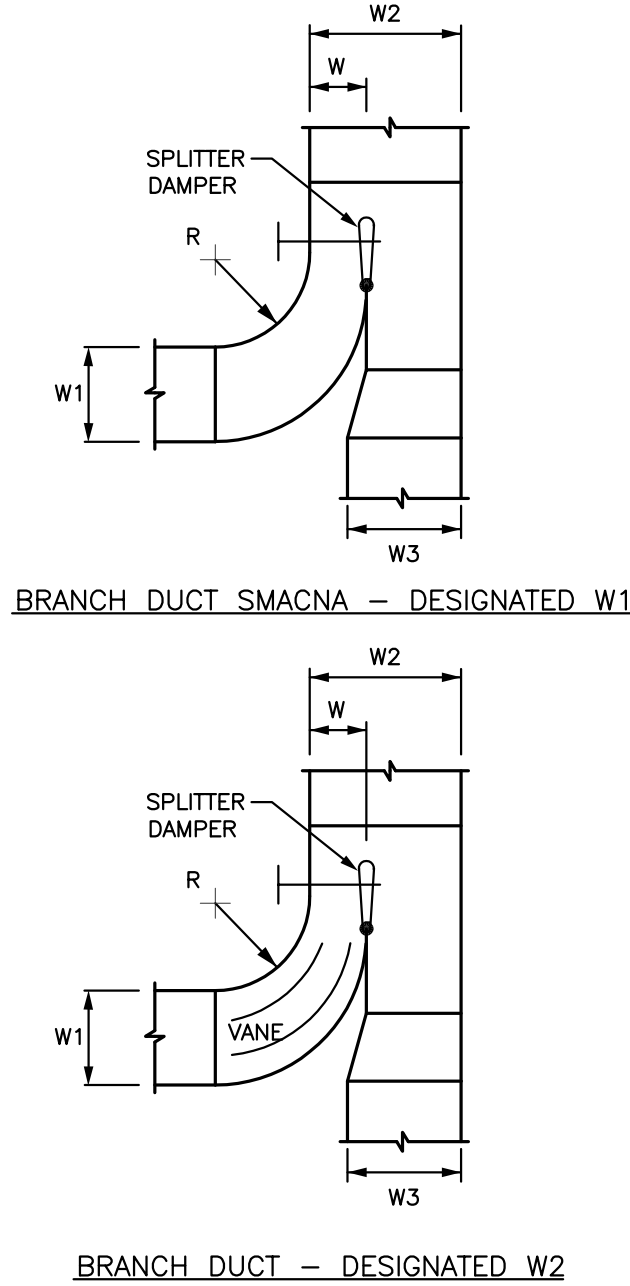
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DUCT CONSTRUCTION NOTES:

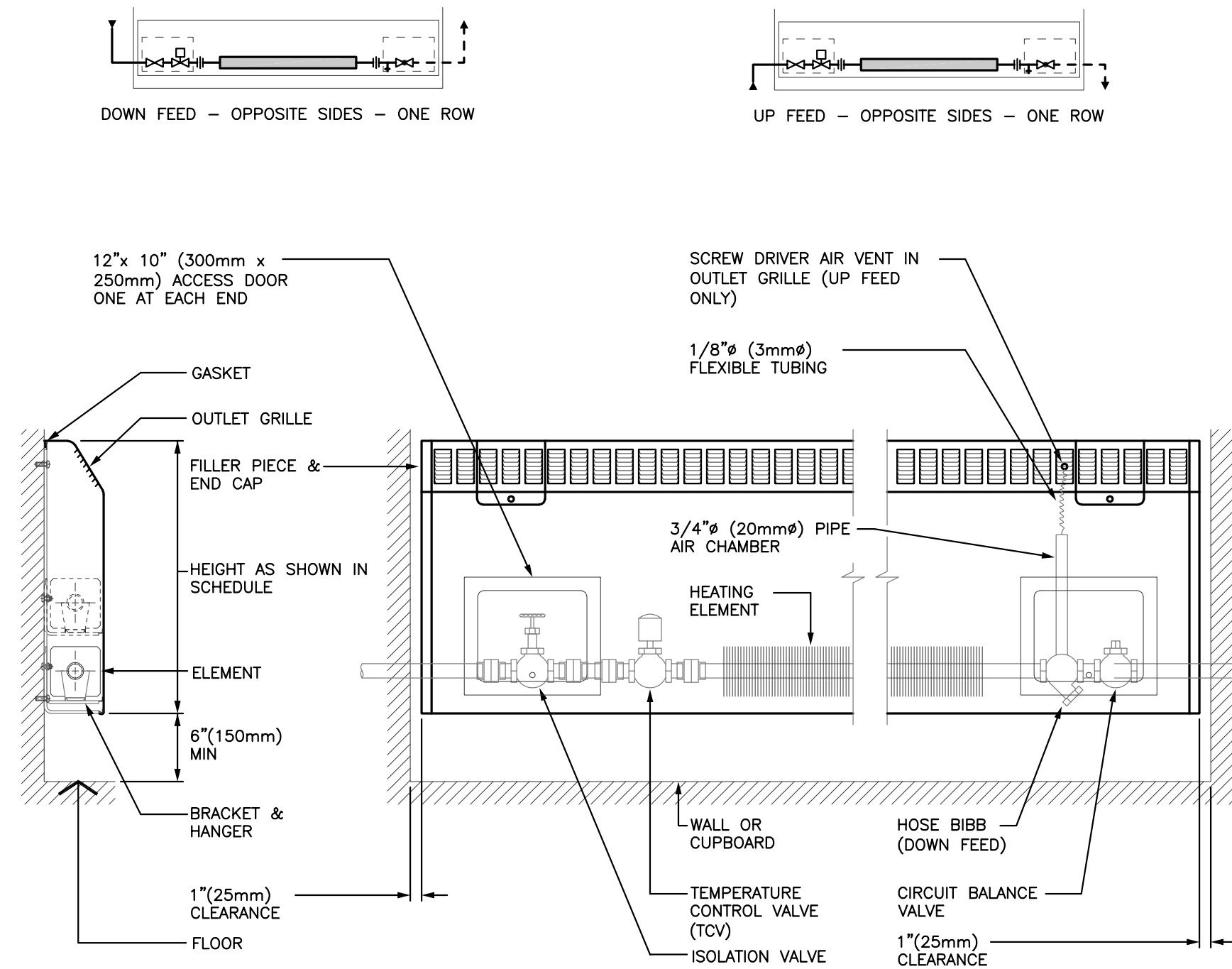
1. ALL DUCTS AND FITTINGS TO BE CONSTRUCT FABRICATED TO SMACNA H.V.A.C. SYSTEMS DUCT DESIGN 1990 THIRD EDITION LOW FITTING LOSS PRACTICE.
2. TRANSITIONS SHALL NOT EXCEED 20° AT VELOCITIES ABOVE 1000/PM.
3. R/W EXCEEDING 1.0 SHALL BE USED IN ALL OPEN AREAS.



SQUARE, RADIUS ELBOW AND TRANSITION FITTINGS

TYPICAL DUCT CONNECTION

VOLUME DAMPERS



TYPICAL CONTINUOUS - CONVECTOR DETAIL

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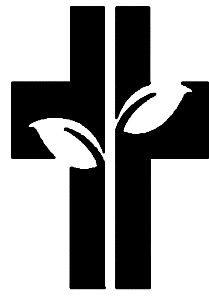
MECHANICAL DETAILS 2

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JOB NAME				ST. JOSEPH ELEMENTARY SCHOOL GYM RENOVATIONS																						JOB No.		ALL-23008480-A0		
MECHANICAL SCHEDULE - ROOFTOP UNIT EQUIPMENT																														
DWG. DESIGNATION	MANUFACTURER / MODEL	SERVICE	SUPPLY CFM	FAN HP	EER	DUCT CONFIGURATION	WEIGHT C/W 24" CURB (LBS)	FRESH AIR (CFM)	ESP (IN WG)	COOLING				GAS FURNACE				HEAT PUMP			MECHANICAL REMARKS	POWER REQUIREMENTS					ELECTRICAL REMARKS			
										AMBIENT AIR TEMP (°F)	EVAPORATOR EAT (°F)	EVAPORATOR LAT (°F)	GROSS TOTAL CAPACITY (MBh)	GROSS SENSIBLE CAPACITY (MBh)	INPUT (MBh)	OUTPUT (MBh)	GAS HEATING EAT (°F)	GAS HEATING LAT (°F)	TEMP. RISE (°F)	HEATING CAPACITY (MBh)		HEATING EAT (°F)	HEATING LAT (°F)	VOLTS / PHASE / HZ	MCA	MOP		STARTER	REMOTE CONTROL DEVICE	DISC. TYPE
RTA-C-1	TRANE PRECEDENT DHC074H3RZA 6 TON	CLASSROOMS	2,000	3	12.1	VERTICAL SUPPLY VERTICAL RETURN	1,371	XXX	0.75	95	80db / 67wb	53.6db / 53.5wb	76.75	53.89	200	162	70	106.95	36.95	73.43	70	104	DIRECT DRIVE SUPPLY FAN, INDIRECT FIRED GAS FURNACE / HEAT PUMP, DX COOLING, ECONOMIZER (DRY BULB COMPARISON), CO2 DUCT MOUNTED DEMAND VENTILATION, BAROMETRIC RELIEF, FIELD INSTALLED NON-FUSED DISCONNECT SWITCH, THERMOSTAT, 24" ROOF CURB, FIELD-INSTALLED NON-POWERED GFI, HAILGUARDS.	208-230/3/60	42A	50A	BUILT-IN	THERMOSTAT	BUILT-IN NON-FUSED	DIV. 26 TO PROVIDE POWER AND WIRE THROUGH THE NON-FUSED DISCONNECT. DIV. 26 TO WIRE TO THE GFI RECEPTACLE. ALL CONTROL WIRING BY MECHANICAL DIVISION.
RTA-C-2	TRANE PRECEDENT DSJ150A3SAM 12.5 TON	GYM	4,000	3	10.4	VERTICAL SUPPLY VERTICAL RETURN	2,763	XXX	0.75	95	80db / 67wb	55.5db / 54.67wb	148.22	105.39	150	122	70	126.4	56.4	136.04	70	106.63	DIRECT DRIVE SUPPLY FAN, INDIRECT FIRED GAS FURNACE / HEAT PUMP, DX COOLING, ECONOMIZER (DRY BULB COMPARISON), CO2 DUCT MOUNTED DEMAND VENTILATION, BAROMETRIC RELIEF, FIELD INSTALLED NON-FUSED DISCONNECT SWITCH, THERMOSTAT, 24" ROOF CURB, FIELD-INSTALLED NON-POWERED GFI, HAILGUARDS.	208-230/3/60	78A	100A	73.43	THERMOSTAT	BUILT-IN NON-FUSED	DIV. 26 TO PROVIDE POWER AND WIRE THROUGH THE NON-FUSED DISCONNECT. DIV. 26 TO WIRE TO THE GFI RECEPTACLE. ALL CONTROL WIRING BY MECHANICAL DIVISION.



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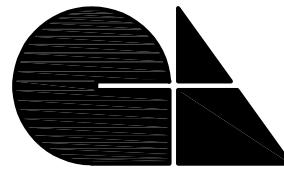
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POWER DISTRIBUTION AND SMALL POWER			
	DUPLIX RECEPTACLE, WALL MOUNTED		DOUBLE DUPLIX RECEPTACLE, WALL MOUNTED
	DUPLIX RECEPTACLE, ABOVE BACKSPASH OF CABINET, COUNTERTOP OR SINK		DOUBLE DUPLIX RECEPTACLE, ABOVE BACKSPASH OF CABINET, COUNTERTOP OR SINK
	DUPLIX RECEPTACLE, FLUSH MTD IN CEILING		DOUBLE DUPLIX RECEPTACLE, FLUSH MOUNTED IN CEILING
	HALF SWITCHED DUPLIX RECEPTACLE, WALL MOUNTED		SIMPLEX RECEPTACLE, WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED. NEMA CONFIGURATION AS NOTED ON PLANS		SPECIAL PURPOSE RECEPTACLE, CEILING MOUNTED NEMA CONFIGURATION AS NOTED ON PLANS
	SHADING REPRESENTS RECEPTACLE ON LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE ON UPS BRANCH
	SHADING REPRESENTS RECEPTACLE ON NON-LIFE SAFETY BRANCH		SHADING REPRESENTS RECEPTACLE WITH ISOLATED GROUND
	DISCONNECT SWITCH, REFER TO EQUIPMENT CONNECTION SCHEDULE FOR DISCONNECT TYPE, UON		
	COMBINATION MOTOR STARTER DISCONNECT		
	MOTOR STARTER		
	VARIABLE FREQUENCY DRIVE		
	DIRECT CONNECTION, WALL MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
	DIRECT CONNECTION, CEILING MOUNTED. SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER, REFER TO EQUIPMENT CONNECTION SCHEDULE.		
	MOTOR, SUBSCRIPT 'X' DENOTES MOTOR DESIGNATION, REFER TO EQUIPMENT CONNECTION SCHEDULE		
	GROUND BUS BAR		
	FURNITURE OUTLET, WALL MOUNTED		
	PANELBOARD		
	TRANSFORMER		
	FLOOR BOX, DUPLIX RECEPTACLE		SPECIAL FLOORBOX, "F" INDICATES UNIQUE FLOOR BOX TYPE
	FLOOR BOX, DOUBLE DUPLIX RECPT		
x — RECEPTACLE TYPE 12 — NUMBER INDICATES BRANCH CIRCUIT NUMBER			

CIRCUITING	
	BLDG-E1MDPHA,10 CIRCUIT NUMBER PANEL DESIGNATION
	3#12, #12G, 21mmC CONDUIT SIZE GROUND CONDUCTOR QUANTITY AND SIZE CIRCUIT CONDUCTOR QUANTITY AND SIZE

FIRE ALARM SYSTEM			
	FIRE ALARM STROBE, WALL MOUNTED		FIRE ALARM STROBE, CEILING MOUNTED.
	FIRE ALARM HORN, WALL MOUNTED		FIRE ALARM HORN, CEILING MOUNTED
	FIRE ALARM HORN/STROBE, WALL MOUNTED		FIRE ALARM HORN/STROBE, CEILING MOUNTED
	FIRE ALARM SPEAKER, WALL MOUNTED		FIRE ALARM SPEAKER, CEILING MOUNTED
	FIRE ALARM SPEAKER/STROBE, WALL MOUNTED		FIRE ALARM SPEAKER/STROBE, CEILING MOUNTED
	FIRE ALARM BELL, WALL MOUNTED		FIRE ALARM PULL STATION
	HEAT DETECTOR, WALL MOUNTED		HEAT DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, WALL MOUNTED		SMOKE DETECTOR, CEILING MOUNTED
	SMOKE DETECTOR, DUCT MOUNTED		FIRE/SMOKE DAMPER
	CARBON MONOXIDE DETECTOR		SMOKE DAMPER
	FIREFIGHTERS TELEPHONE OUTLET		SMOKE ALARM
	REMOTE INDICATOR LIGHT		COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR
	FIRE ALARM CONTROL PANEL		TAMPER SWITCH
	FIRE ALARM REMOTE ANNUNCIATOR PANEL		REMOTE TEST STATION
	DATA GATHERING PANEL		FLOW SWITCH
	FIRE ALARM TERMINAL CABINET		SUPERVISORY VALVE
	FIRE ALARM TRANSPONDER PANEL		ELECTRO-MAGNETIC DOOR HOLDER

LIGHTING, LIGHTNG SWITCHING & CONTROLS			
	AF10 7ab	UPPER CASE LETTERS INDICATE LIGHTING FIXTURE TYPE NUMBER INDICATES CIRCUIT NUMBER, LOWER CASE LETTER INDICATES SWITCH/LEG	
	LIGHTING FIXTURE ON NORMAL BRANCH POWER - CEILING MOUNTED		LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - CEILING MOUNTED
	LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED		LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - WALL MOUNTED
	STRIP LIGHTING FIXTURE ON NORMAL BRANCH POWER		STRIP LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	PENDANT LINEAR FIXTURE ON NORMAL BRANCH POWER		PENDANT LINEAR FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	DOWNLIGHT LIGHTING FIXTURE ON NORMAL BRANCH POWER - RECESSED MOUNTED		DOWNLIGHT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - RECESSED MOUNTED
	PENDANT LIGHTING FIXTURE ON NORMAL BRANCH POWER		PENDANT LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	WALL WASH LIGHTING FIXTURE ON NORMAL BRANCH POWER - ARROW INDICATES DIRECTION OF BEAM		WALL WASH LIGHTING FIXTURE ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - ARROW INDICATES DIRECTION OF BEAM
	WALL SCONCE LIGHTING FIXTURE ON NORMAL BRANCH POWER - WALL MOUNTED		WALL SCONCE LIGHTING FIXTURE ON EMERGENCY BRANCH POWER - WALL MOUNTED
	TRACK LIGHT HEAD ON NORMAL BRANCH POWER		TRACK LIGHT HEAD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	BOLLARD LIGHT FIXTURE ON NORMAL BRANCH POWER		BOLLARD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST
	SITE LIGHTING SINGLE HEAD ON NORMAL BRANCH POWER - POLE MOUNTED		SITE LIGHTING SINGLE HEAD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - POLE MOUNTED
	SITE LIGHTING DUAL HEAD ON NORMAL BRANCH POWER - POLE MOUNTED		SITE LIGHTING DUAL HEAD ON EMERGENCY BRANCH POWER OR EMERGENCY BALLAST - POLE MOUNTED
	EXIT SIGN - SINGLE FACE - CEILING MOUNTED		EXIT SIGN - DUAL FACE - CEILING MOUNTED
	EXIT SIGN - SINGLE FACE - WALL MOUNTED		EXIT SIGN - DUAL FACE - WALL MOUNTED
	LOW LEVEL EXIT SIGN - SINGLE FACE - WALL OR DOOR MOUNTED		SINGLE REMOTE EMERGENCY LIGHT - WALL MOUNTED
	DUAL HEAD EMERGENCY LIGHT WITH INTEGRAL BATTERY PACK - WALL MOUNTED		DUAL REMOTE EMERGENCY LIGHT - WALL MOUNTED
	SPST SWITCH, WALL MOUNTED. 'ab' INDICATES INDIVIDUAL GANGED SWITCHES AND ASSOCIATED SWITCH LEGS CONTROLLED, SUBSCRIPT 'X' INDICATES: 2 - DOUBLE POLE 3 - THREE WAY 4 - FOUR WAY D - WALL BOX DIMMER		K - KEY OPERATED LV - LOW VOLTAGE P - PILOT LIGHT T - WALL BOX TIMER WP - WEATHER PROOF
	OCCUPANCY SENSOR, CEILING MOUNTED		
	OCCUPANCY SENSOR, WALL MOUNTED		
	VACANCY SENSOR, CEILING MOUNTED		
	VACANCY SENSOR, WALL MOUNTED		
	DIMMING CONTROL PANEL, SUBSCRIPT 'X' INDICATES TYPE		
	DIMMING CONTROL STATION, SUBSCRIPT 'X' INDICATES TYPE OR UNIQUE IDENTIFIER		
	LIGHTING CONTROL PANEL		
	SHUNT TRIP PUSH BUTTON		
	TIME CLOCK, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER		
	DAYLIGHT SENSOR, CEILING MOUNTED		
	PHOTOCCELL		

TAGS AND CALL OUT SYMBOLS	
	SECTION CALLOUT SECTION DESIGNATION SHEET NUMBER
	DETAIL CALLOUT DETAIL DESIGNATION SHEET NUMBER
	REVISION CALLOUT
	KEYNOTE CALLOUT

ABBREVIATIONS			
A	ANALOG	MCB	MAIN CIRCUIT BREAKER
AFCI	ARC FAULT CIRCUIT INTERRUPTOR	MCC	MOTOR CONTROL CENTER
AFF	ABOVE FINISHED FLOOR	MD	MOTORIZED DAMPER
ATS	AUTOMATIC TRANSFER SWITCH	MH	MOUNTING HEIGHT
BM	BEAM MOUNTED	NC	NORMALLY CLOSED
CK	CLOCK HANGER	NO	NORMALLY OPEN
CL	CEILING MOUNTED	OC	OVER THE COUNTER
EMT	ELECTRICAL METALLIC TUBING	PL	POLE MOUNTED
EP	EXPLOSION PROOF	PTZ	PAN, TILT, ZOOM
F	FURNITURE OR MILLWORK MOUNTED	ST	SHUNT TRIP
FL	FLOOR MOUNTED	TP	TAMPER PROOF
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	WP	WEATHER PROOF
GFI	GROUND FAULT INTERRUPTER		

MISCELLANEOUS DEVICES	
	JUNCTION BOX, WALL MOUNTED
	JUNCTION BOX, CEILING MOUNTED
	CONTACTOR, SUBSCRIPT 'X' INDICATES UNIQUE IDENTIFIER
	CONTROL RELAY & REQUIRED INPUT/OUTPUT MODULE

DEMOLITION	
< R >	EXISTING TO BE REMOVED
< RL >	EXISTING TO BE RELOCATED
< EX >	EXISTING TO REMAIN
< NL >	EXISTING - NEW LOCATION
- - - - -	DEMOLITION CONDUIT
- - - - -	DEMOLITION EQUIPMENT
- - - - -	EXISTING TO REMAIN CONDUIT
- - - - -	EXISTING TO REMAIN EQUIPMENT
- - - - -	RELOCATED / NEW CONDUIT
- - - - -	RELOCATED / NEW EQUIPMENT

DRAWING LIST	
DWG No.	DRAWING TITLE
E0.00	ELECTRICAL LEGENDS, SYMBOLS AND DRAWING LIST
E1.00	OVERALL PLAN
E2.00	GYM FLOOR PLAN - LIGHTING DEMO
E2.10	GYM FLOOR PLAN - POWER & SYSTEMS DEMO
E3.00	GYM FLOOR PLAN - LIGHTING NEW
E3.10	GYM FLOOR PLAN - POWER & SYSTEMS NEW
E4.00	LIGHTING SCHEDULE AND DETAILS

NIAGARA CATHOLIC DISTRICT SCHOOL BOARD

4	ISSUED FOR TENDER	2024-01-23
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1	ISSUED FOR REVIEW	2023-10-31
NO	REVISIONS	DATE

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ELECTRICAL LEGENDS, SYMBOLS AND DRAWING LIST

GRGURIC ARCHITECTS INCORPORATED

28 KING STREET EAST, UNIT B
STONEY CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2023-11
START DATE: APRIL 2023	
DRAWN ABS	DRAWING: E0.00
CHECKED JP	
PRINT DATE	

1 EXISTING MAIN SERVICE ENTRANCE SPLITTER, 208Y/120V, 400A, 3PH 4W. SUPPLY AND INSTALL NEW FUSED DISCONNECT SWITCH FOR RTAC-2 (100AF / 100AT). ALLOW FOR REWIRING OF EXISTING FUSED DISCONNECT SWITCHES ABOVE AND BELOW SPLITTER TO ACCOMMODATE THIS NEW SWITCH.

ADDITIONAL ELECTRICAL LOADING BY THIS RENOVATION: ~25kW

2 SUPPLY AND INSTALL CONDUCTORS IN CONDUIT ALONG U/S OF CEILING FOR NEW HVAC UNIT RTAC-2:
-3C #1 AWG + GND R90 COPPER IN 41mm EMT.

APPROXIMATE ROUTING IS SHOWN. THIS CONTRACTOR SHALL DETERMINE BEST ROUTING ON SITE C/W NECESSARY BENDS, OFFSETS AND PULL BOXES.

ARRANGE FOR REMOVAL AND REINSTALLATION OF CEILING TILES WITH GENERAL CONTRACTOR FOR ENTIRE LENGTH OF CONDUCTOR RUN. ANY TILES DAMAGED BY THIS WORK ARE TO BE REPLACED. ALLOW IN PRICE FOR TEMPORARILY REMOVING LIGHT FIXTURES, FIRE ALARM DEVICES OR ANY OTHER IMPEDIMENTS TO INSTALL THE FEEDER CONDUIT IN CEILING SPACE. AFTER INSTALLATION, RE-INSTATE ALL LIGHT FIXTURES AND CEILING-MOUNTED DEVICES.

1. THE ELECTRICAL CONTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, MODIFICATIONS, RELOCATION OF ELECTRICAL DISTRIBUTION AND OTHER EQUIPMENT AND RELATED WORK, INCLUDING NEW WORK NECESSARY TO COMPLETE THE PROJECT.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS. REFER TO EXISTING DRAWINGS AND VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK REQUIRED.

3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL TECHNICAL DETAILS OF EQUIPMENT TO BE REMOVED. WHERE THERE IS A DISCREPANCY WITH THE TENDER DOCUMENTS, CONTRACTOR SHALL ENGAGE CONSULTANTS FOR DIRECTIONS. ELECTRICAL CONTRACTOR SHALL MAKE A LIST OF ALL EQUIPMENT TO BE REMOVED. THIS LIST SHALL BE WITH ALL FOLLOWING INFORMATION.

" " LOCATION THIS LIST SHALL BE SUBMITTED TO THE OWNER FO RECORD PURPOSES.

4. THE ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE RENOVATION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA.

5. ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR THEIR USE AND IF NOT ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL REGULATIONS, THE ELECTRICAL CONTRACTOR SHALL DELIVER ITEMS ACCEPTED BY THE OWNER TO THE DESIGNATED LOCATIONS AS DIRECTED BY THE OWNER.

6. IN ALL CASES WHERE WORK IS REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL PARTS OF THE SYSTEMS CONNECTING TO OR FROM THE PART REMOVED, COMPLETING ALL WORK IN STRICT ACCORDANCE WITH APPLICABLE CODES.

7. ALL WIRING, CABLES AND FEEDERS INCLUDING BOTH CONNECTED TO DEVICES AND EQUIPMENT TO BE DEMOLISHED AND EXISTING THAT WERE ABANDONED IN PLACE SHALL BE REMOVED BACK TO THEIR SOURCES. UNLESS NOTED OTHERWISE, CONDUITS AND/OR WIRING SHALL, WHERE NECESSARY, BE RE-CIRCUIT AROUND THE REMOVED PART, KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL SERVICE.

8. ALL EXISTING CONDUITS WHICH HAVE BEEN ABANDONED OR ARE UNUSED SHALL BE REMOVED.

9. PROVIDE BLANK METAL COVER PLATES FOR ALL JUNCTION/DEVICE BOXES NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLAB OR MASONRY WALLS. PROVIDE PLUGS FOR ALL PANELS WHERE CONDUIT HAS BEEN REMOVED. COVER PLATES SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.

10. WHERE REQUIRED COORDINATE WITH THE CONSULTANTS/OWNER FOR EXISTING PARTITIONS TO BE REMOVED TO FACILITATE WORK. DISCONNECT EXISTING BRANCH CIRCUITS SERVICING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF CIRCUITS SERVICING EXISTING DEVICES IN OTHER AREAS TO REMAIN.

11. LIGHTING FIXTURES: REMOVE LIGHTING FIXTURES AND SWITCH CONTROL WHEN THE FIXTURE TO BE REMOVED IS SERVED BY A CIRCUIT, THAT SUPPLIES FIXTURES IN OTHER, AREAS THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING FIXTURES.

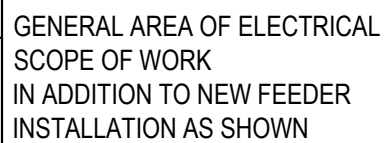
12. POWER RECEPTACLES: REMOVE RECEPTACLES WHEN THE RECEPTACLE TO BE REMOVED IS SERVED BY A CIRCUIT THAT SUPPLIES RECEPTACLES IN OTHER AREAS, THAT ARE TO REMAIN. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING RECEPTACLES.

13. FIRE ALARM SYSTEM: COORDINATE AND CONSULT WITH CURRENT F/A SYSTEM SERVICE CONTRACTOR OR THEIR QUALIFIED REPRESENTATIVE FOR ALL FIRE ALARM DEMOLITION AND MODIFICATIONS. OPERATION SHALL BE MAINTAINED OF EXISTING FIRE ALARM SYSTEM SPECIFICALLY AS IT RELATES TO ADJACENT AREAS WHICH ARE NOT INCLUDED IN THE SCOPE OF THIS PROJECT.

14. ELECTRICAL CONTRACTOR SHALL PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY THE DEMOLITION AND/OR NEW WORK. CIRCUIT BREAKERS NOT USED FOR NEW WORK SHALL BE LABELED AS SPARE.

15. FOR EXISTING DEVICES/CIRCUITRY THAT ARE INDICATED TO BE REMOVED BACK TO POINT OF ORIGIN THESE ITEMS ARE TO BE REMOVED BACK TO POINT OF ORIGIN UNLESS THERE WILL BE EXISTING DEVICES ON THE SAME CIRCUIT THAT ARE LOCATED OUTSIDE AREA OF WORK THAT ARE TO REMAIN. IN THAT CASE, REMOVE THE EXISTING DEVICES/CIRCUITRY IN AREA OF WORK BACK TO THESE EXISTING DEVICES TO REMAIN. ALL DEVICES/CIRCUITRY IN SURROUNDING AREAS THAT ARE TO REMAIN ARE TO BE KEPT ENCLOSED. FOR REMOVAL OF CONDUIT AND WIRING OUTSIDE OF AREA OF WORK COORDINATE AND SCHEDULE WITH OWNER PRIOR TO PERFORMING WORK.

- A. PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL VISIT SITE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT LOCATIONS AND OTHER POTENTIAL INSTALLATION DIFFICULTIES. PAY OBTAIN ANY PERMITS REQUIRED INCLUDING EISA.
- B. ALL CONDUIT ROUTES SHOWN ON DRAWINGS ARE APPROXIMATE AND NOT FINAL. CONTRACTOR SHALL VERIFY ROUTES AND DO A WALKTHROUGH BEFORE BID. CONTRACTOR SHALL ACCOUNT FOR POSSIBLE DAMAGE AND REPAIR TO EXISTING CEILING AND LIGHT FIXTURES. ALL MAIN CONDUIT RUNS SHALL BE IN CORRIDOR CEILING SPACE.
- C. EXTEND/PROVIDE NEW WIRING/CONDUIT FOR ALL DEVICES THAT ARE RELOCATED.
- D. ALL NEW RECEPTANCES IN THE SCHOOL SHALL BE TAMPER RESISTANT TYPE.
- E. REMOVE AND RE-INSTALL ALL REQUIRED T-BAR OR TYPE CEILING TOLLS TO FACILITATE ELECTRICAL INSTALLATIONS. ANY DAMAGED TOLLS TO T-BAR SHALL BE RE-INSTALLED.
- F. UNLESS OTHERWISE NOTED WITH A CRACK NUMBER, RE-USE EXISTING CIRCUIT BREAKERS THAT HAVE BEEN DAMAGED FROM THE DEMOLITION TO FEED NEW RECEPTANCES. MAXIMUM 6 DUPLICATE RECEPTANCES PER CIRCUIT UNLESS OTHERWISE NOTED.
- G. FOR EACH PANEL BOARD, PROVIDE AN UPDATED, TYPE WRITTEN DIRECTORY INDICATING ROOM AND ROOM NUMBER, EQUIPMENT IDENTIFICATIONS, SPARE OR SPACE AS APPLICABLE. DIRECTORY SHALL BE MOUNTED INSIDE PANEL BOARD.
- H. ALL EMPTY CONDUITS SHALL CONTAIN PULL WIRES.
- I. EQUIPMENT OR DEVICES THAT ARE LOCATED ABOVE OPENINGS SUCH AS DOORS, LOUVERS, ETC., SHALL BE CENTERED ABOVE OPENING. THIS NOTE REFERS TO, BUT IS NOT LIMITED TO EXIT LIGHTS, EXTERIOR LIGHT FIXTURES, ETC.
- J. CONCEAL ALL CONDUIT IN FINISHED SPACES. IN UNFINISHED SPACES, ALL OUTLET BOXES SHALL BE RECESSED, AND ALL CONDUIT SHALL BE CONCEALED TO THE HIGHEST EXTENT POSSIBLE.
- K. PROVIDE CONDUIT BUSHINGS FOR ALL CONDUIT NIPPLES, SLEEVES, AND STUBS FROM WALL BOXES TO ABOVE CEILING.
- L. FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR ALL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT, TRANSFORMERS AND LIGHT FIXTURES. THE MAXIMUM ALLOWABLE LENGTH IS 3' FOR MOTORS/TRANSFORMERS AND 4' FOR LIGHT FIXTURE WHPs. PVC JACKSTICK FLEX SHALL BE USED FOR ALL MOTORS AND POTENTIALLY VIB LOCATIONS ARE THE USE OF FLEXIBLE CONDUIT OTHER THAN AS SPECIFIED IS PROHIBITED.



1 OVERALL PLAN
E1.00 1:150



NIAGARA CATHOLIC
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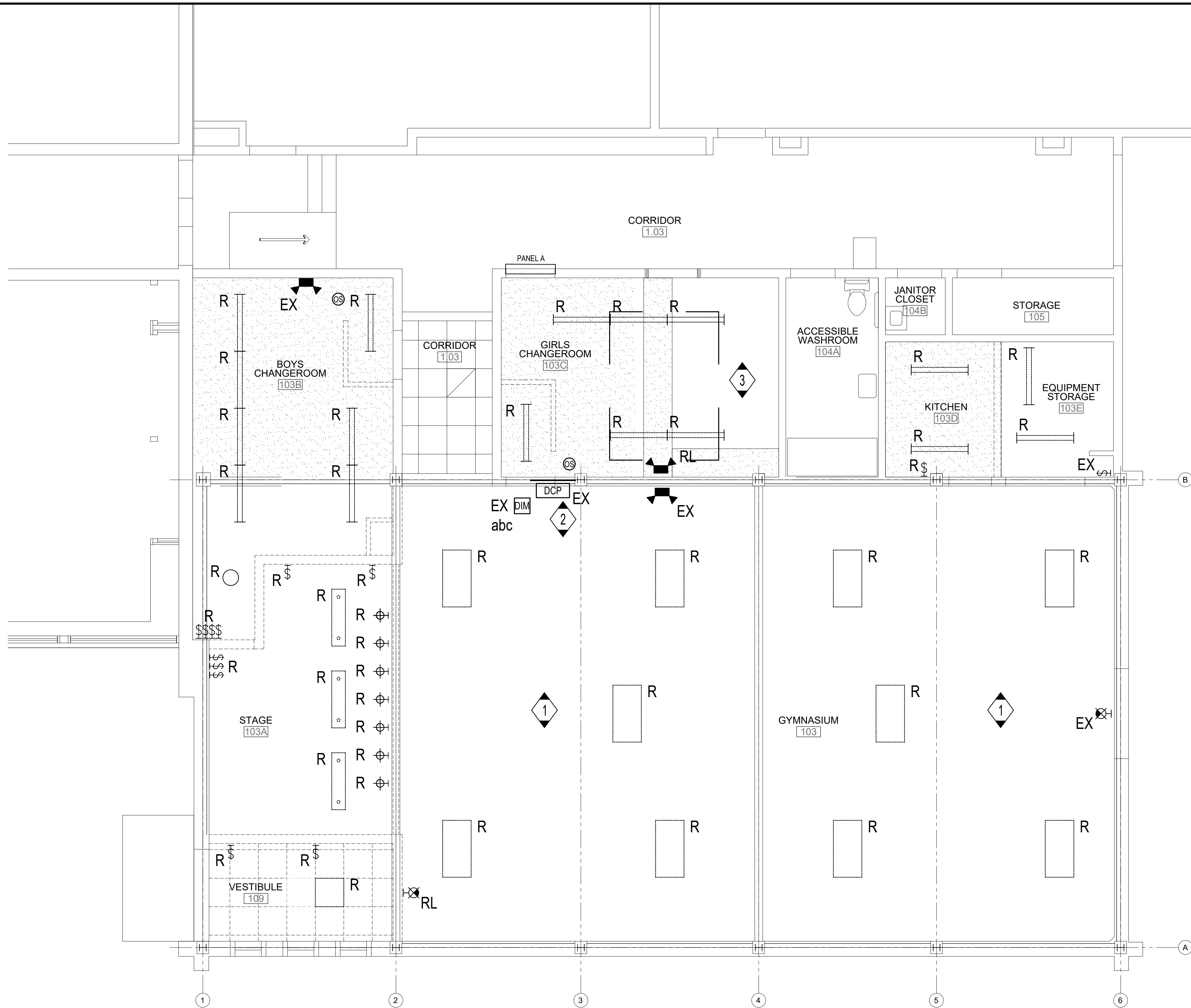
OVERALL PLAN

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28 KING STREET EAST, UNIT B
STONE CREEK, ONTARIO, L8G 1J8
Tel. 905-664-8735 Fax. 905-664-8737
Web: www.2gai.com

SCALE: AS NOTED	PROJECT: 2023-11
START DATE: APRIL 2023	
DRAWN ABS	DRAWING: E1.00
CHECKED JP	
PRINT DATE	



1 FLOOR PLAN - LIGHTING DEMO
E2.00 1:50

ELECTRICAL GENERAL DEMOLITION NOTES

1. THE ELECTRICAL CONTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, MODIFICATIONS, RELOCATION OF ELECTRICAL DISTRIBUTION AND OTHER EQUIPMENT AND RELATED WORK, INCLUDING NEW WORK NECESSARY TO COMPLETE THE PROJECT.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS. REFER TO EXISTING DRAWINGS AND VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK REQUIRED.
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL TECHNICAL DETAILS OF EQUIPMENT TO BE REMOVED. WHERE THERE IS A DISCREPANCY WITH THE TENDER DOCUMENTS, CONTRACTOR SHALL ENGAGE CONSULTANTS FOR DIRECTIONS. ELECTRICAL CONTRACTOR SHALL MAKE A LIST OF ALL EQUIPMENT TO BE REMOVED. THIS LIST SHALL BE WITH ALL FOLLOWING INFORMATION:
MAKE/MODEL
** MANUFACTURER
** TECHNICAL DETAILS
** LOCATION THIS LIST SHALL BE SUBMITTED TO THE OWNER FO RECORD PURPOSES.
4. THE ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE RENOVATION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA.
5. ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR THEIR USE AND IF NOT ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL REGULATIONS. THE ELECTRICAL CONTRACTOR SHALL DELIVER ITEMS ACCEPTED BY THE OWNER TO THE DESIGNATED LOCATIONS AS DIRECTED BY THE OWNER.
6. IN ALL CASES WHERE WORK IS REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL PARTS OF THE SYSTEMS CONNECTING TO OR FROM THE PART REMOVED, COMPLETING ALL WORK IN STRICT ACCORDANCE WITH APPLICABLE CODES.
7. ALL WIRING, CABLES AND FEEDERS INCLUDING BOTH CONNECTED TO DEVICES AND EQUIPMENT TO BE DEMOLISHED AND EXISTING THAT WERE ABANDONED IN PLACE SHALL BE REMOVED BACK TO THEIR SOURCES. UNLESS NOTED OTHERWISE, CONDUITS AND/OR WIRING SHALL, WHERE NECESSARY, BE RE-CIRCUIT AROUND THE REMOVED PART, KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL SERVICE.
8. ALL EXISTING CONDUITS WHICH HAVE BEEN ABANDONED OR ARE UNUSED SHALL BE REMOVED.
9. PROVIDE BLANK METAL COVER PLATES FOR ALL JUNCTION/DEVICE BOXES NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLAB OR MASONRY WALLS. PROVIDE PLUGS FOR ALL PANELS WHERE CONDUIT HAS BEEN REMOVED. COVER PLATES SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
10. WHERE REQUIRED COORDINATE WITH THE CONSULTANTS/OWNER FOR EXISTING PARTITIONS TO BE REMOVED TO FACILITATE WORK. DISCONNECT EXISTING BRANCH CIRCUITS SERVICING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF CIRCUITS SERVICING EXISTING DEVICES IN OTHER AREAS TO REMAIN.
11. LIGHTING FIXTURES: REMOVE LIGHTING FIXTURES AND SWITCH CONTROL. WHEN THE FIXTURE TO BE REMOVED IS SERVED BY A CIRCUIT, THAT SUPPLIES FIXTURES IN OTHER AREAS THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING FIXTURES.
12. POWER RECEPTACLES: REMOVE RECEPTACLES. WHEN THE RECEPTACLE TO BE REMOVED IS SERVED BY A CIRCUIT THAT SUPPLIES RECEPTACLES IN OTHER AREAS, THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING RECEPTACLES.
13. FIRE ALARM SYSTEM: COORDINATE AND CONSULT WITH CURRENT FIA SYSTEM SERVICE CONTRACTOR OR THEIR QUALIFIED REPRESENTATIVE FOR ALL FIRE ALARM DEMOLITION AND MODIFICATIONS. OPERATION SHALL BE MAINTAINED OF EXISTING FIRE ALARM SYSTEM SPECIFICALLY AS IT RELATES TO ADJACENT AREAS WHICH ARE NOT INCLUDED IN THE SCOPE OF THIS PROJECT.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY THE DEMOLITION AND/OR NEW WORK. CIRCUIT BREAKERS NOT USED FOR NEW WORK SHALL BE LABELED AS SPARE.
15. FOR EXISTING DEVICES/CIRCUITRY THAT ARE INDICATED TO BE REMOVED BACK TO POINT OF ORIGIN THESE ITEMS ARE TO BE REMOVED BACK TO POINT OF ORIGIN UNLESS THERE WILL BE EXISTING DEVICES ON THE SAME CIRCUIT THAT ARE LOCATED OUTSIDE AREA OF WORK THAT ARE TO REMAIN. IN THAT CASE, REMOVE THE EXISTING DEVICES/CIRCUITRY IN AREA OF WORK BACK TO THESE EXISTING DEVICES TO REMAIN. ALL DEVICES/CIRCUITRY IN SURROUNDING AREAS THAT ARE TO REMAIN ARE TO BE KEPT ENERGIZED. FOR REMOVAL OF CONDUIT AND WIRING OUTSIDE OF AREA OF WORK COORDINATE AND SCHEDULE WITH OWNER PRIOR TO PERFORMING WORK.

DRAWING NOTES

1. GYMNASIUM LIGHT FIXTURES ARE TO BE TURNED OVER TO OWNER AFTER DISCONNECTION AND REMOVAL.
 2. GYMNASIUM LIGHTING SWITCHING: EXISTING DIMMING CONTROLS/SCENE SELECTION SWITCH LOCATED AT GROUND LEVEL. ADDITIONAL CONTROLS AND JUNCTION BOX LOCATED ABOVE BLOCK WALL NEAR CEILING.
 3. DISCONNECT EXISTING ROOFTOP UNIT FROM BRANCH BREAKER (70A-3P) IN DISTRIBUTION PANELBOARD (PANEL A) AND FROM EXISTING ROOFTOP UNIT TO BE REPLACED. REMOVE BRANCH CONDUCTORS / CONDUIT IN ENTIRETY AND EXISTING BREAKER IS TO BE REMOVED.
- 4
5
6



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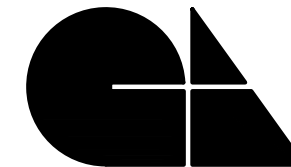


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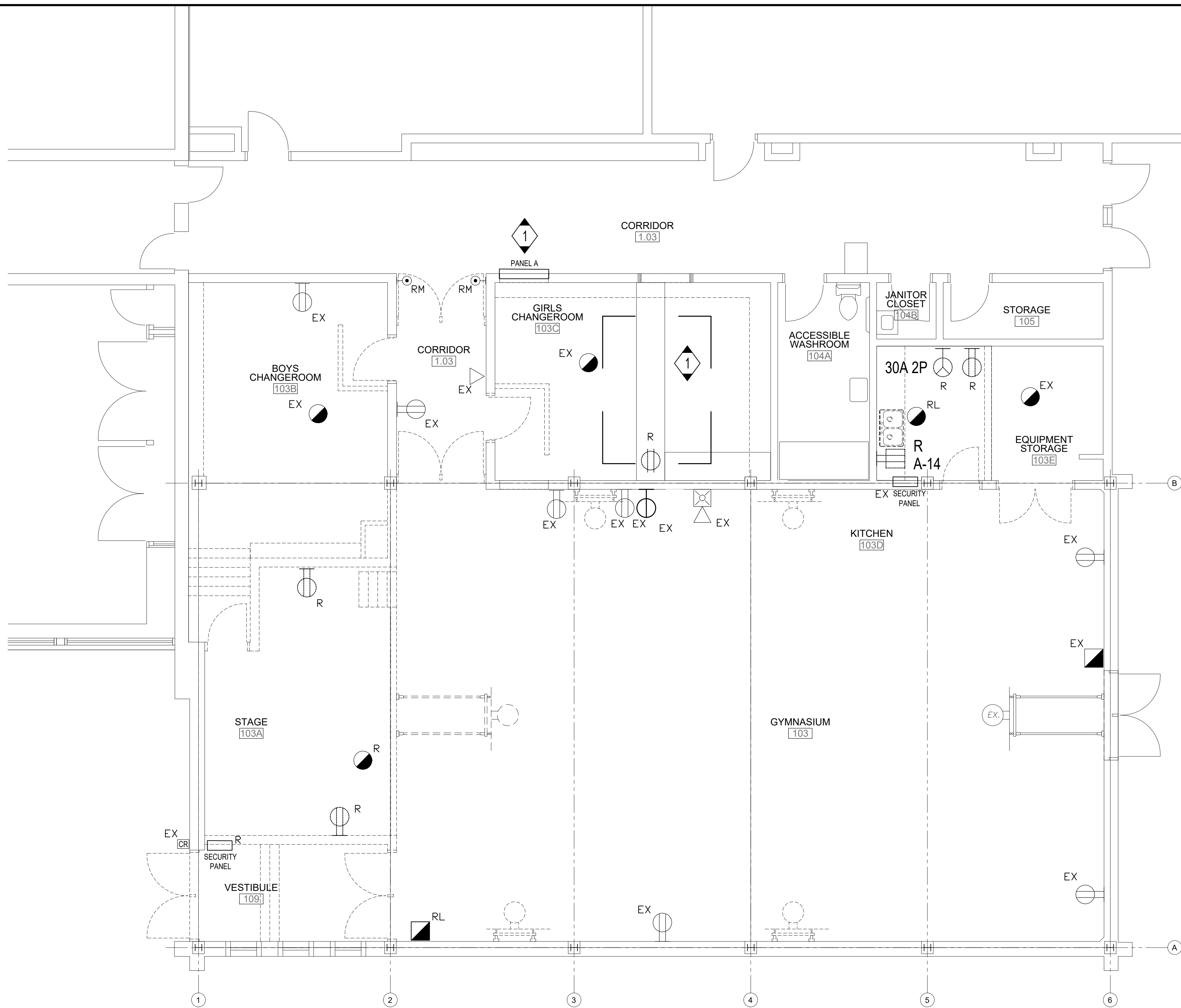
GYM FLOOR PLAN -
LIGHTING DEMO

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1 FLOOR PLAN - POWER & SYSTEMS DEMO
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ELECTRICAL GENERAL DEMOLITION NOTES

1. THE ELECTRICAL CONTRACTOR SHALL, AS PART OF HIS WORK, PERFORM ALL RELATED DEMOLITION, MODIFICATIONS, RELOCATION OF ELECTRICAL DISTRIBUTION AND OTHER EQUIPMENT AND RELATED WORK, INCLUDING NEW WORK NECESSARY TO COMPLETE THE PROJECT.
2. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS AND DIMENSIONS PRIOR TO SUBMITTING BIDS. REFER TO EXISTING DRAWINGS AND VISIT THE SITE TO DETERMINE THE EXTENT OF THE DEMOLITION AND NEW WORK REQUIRED.
3. THE ELECTRICAL CONTRACTOR SHALL VERIFY ALL TECHNICAL DETAILS OF EQUIPMENT TO BE REMOVED. WHERE THERE IS A DISCREPANCY WITH THE TENDER DOCUMENTS, CONTRACTOR SHALL ENGAGE CONSULTANTS FOR DIRECTIONS. ELECTRICAL CONTRACTOR SHALL MAKE A LIST OF ALL EQUIPMENT TO BE REMOVED. THIS LIST SHALL BE WITH ALL FOLLOWING INFORMATION:
MAKE/MODEL
** MANUFACTURER
** TECHNICAL DETAILS
** LOCATION THIS LIST SHALL BE SUBMITTED TO THE OWNER FO RECORD PURPOSES.
4. THE ELECTRICAL CONTRACTOR SHALL NOT DISCONNECT EQUIPMENT AND ELECTRICAL CIRCUITS IN THE RENOVATION AREA OR ANY PART OF THE BUILDING WITHOUT PRIOR NOTIFICATION AND PERMISSION FROM THE OWNER. EXTREME CARE SHALL BE TAKEN TO MINIMIZE DISTURBANCE TO THE SURROUNDING AREA.
5. ITEMS REMOVED AND NOT SCHEDULED TO BE RELOCATED SHALL BE OFFERED TO THE OWNER FOR THEIR USE AND IF NOT ACCEPTED BY THE OWNER, THE ELECTRICAL CONTRACTOR SHALL DISPOSE OF THE MATERIAL FROM THE SITE IN ACCORDANCE WITH LOCAL REGULATIONS. THE ELECTRICAL CONTRACTOR SHALL DELIVER ITEMS ACCEPTED BY THE OWNER TO THE DESIGNATED LOCATIONS AS DIRECTED BY THE OWNER.
6. IN ALL CASES WHERE WORK IS REMOVED, THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY MATERIALS, EQUIPMENT AND LABOR TO SUSTAIN OPERATION OF ALL PARTS OF THE SYSTEMS CONNECTING TO OR FROM THE PART REMOVED, COMPLETING ALL WORK IN STRICT ACCORDANCE WITH APPLICABLE CODES.
7. ALL WIRING, CABLES AND FEEDERS INCLUDING BOTH CONNECTED TO DEVICES AND EQUIPMENT TO BE DEMOLISHED AND EXISTING THAT WERE ABANDONED IN PLACE SHALL BE REMOVED BACK TO THEIR SOURCES. UNLESS NOTED OTHERWISE, CONDUITS AND/OR WIRING SHALL, WHERE NECESSARY, BE RE-CIRCUIT AROUND THE REMOVED PART, KEEPING OCCUPIED PARTS OF THE BUILDING SYSTEM IN FULL SERVICE.
8. ALL EXISTING CONDUITS WHICH HAVE BEEN ABANDONED OR ARE UNUSED SHALL BE REMOVED.
9. PROVIDE BLANK METAL COVER PLATES FOR ALL JUNCTION/DEVICE BOXES NO LONGER IN USE THAT ARE EMBEDDED IN FLOOR SLAB OR MASONRY WALLS. PROVIDE PLUS FOR ALL PANELS WHERE CONDUIT HAS BEEN REMOVED. COVER PLATES SHALL BE PAINTED TO MATCH EXISTING CONDITIONS.
10. WHERE REQUIRED COORDINATE WITH THE CONSULTANTS/OWNER FOR EXISTING PARTITIONS TO BE REMOVED TO FACILITATE WORK. DISCONNECT EXISTING BRANCH CIRCUITS SERVICING DEVICES IN PARTITIONS TO BE REMOVED. MAINTAIN CONTINUITY OF CIRCUITS SERVICING EXISTING DEVICES IN OTHER AREAS TO REMAIN.
11. LIGHTING FIXTURES: REMOVE LIGHTING FIXTURES AND SWITCH CONTROL. WHEN THE FIXTURE TO BE REMOVED IS SERVED BY A CIRCUIT, THAT SUPPLIES FIXTURES IN OTHER AREAS THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING FIXTURES.
12. POWER RECEPTACLES: REMOVE RECEPTACLES. WHEN THE RECEPTACLE TO BE REMOVED IS SERVED BY A CIRCUIT THAT SUPPLIES RECEPTACLES IN OTHER AREAS, THAT ARE TO REMAIN, THE ELECTRICAL CONTRACTOR SHALL MAINTAIN THE CONTINUITY OF THE CIRCUIT TO THE REMAINING RECEPTACLES.
13. FIRE ALARM SYSTEM: COORDINATE AND CONSULT WITH CURRENT FIA SYSTEM SERVICE CONTRACTOR OR THEIR QUALIFIED REPRESENTATIVE FOR ALL FIRE ALARM DEMOLITION AND MODIFICATIONS. OPERATION SHALL BE MAINTAINED OF EXISTING FIRE ALARM SYSTEM SPECIFICALLY AS IT RELATES TO ADJACENT AREAS WHICH ARE NOT INCLUDED IN THE SCOPE OF THIS PROJECT.
14. ELECTRICAL CONTRACTOR SHALL PROVIDE UPDATED TYPE WRITTEN PANEL DIRECTORIES FOR ALL PANELS AFFECTED BY THE DEMOLITION AND/OR NEW WORK. CIRCUIT BREAKERS NOT USED FOR NEW WORK SHALL BE LABELED AS SPARE.
15. FOR EXISTING DEVICES/CIRCUITRY THAT ARE INDICATED TO BE REMOVED BACK TO POINT OF ORIGIN, THESE ITEMS ARE TO BE REMOVED BACK TO POINT OF ORIGIN UNLESS THERE WILL BE EXISTING DEVICES ON THE SAME CIRCUIT THAT ARE LOCATED OUTSIDE AREA OF WORK THAT ARE TO REMAIN. IN THAT CASE, REMOVE THE EXISTING DEVICES/CIRCUITRY IN AREA OF WORK BACK TO THESE EXISTING DEVICES TO REMAIN. ALL DEVICES/CIRCUITRY IN SURROUNDING AREAS THAT ARE TO REMAIN ARE TO BE KEPT ENERGIZED. FOR REMOVAL OF CONDUIT AND WIRING OUTSIDE OF AREA OF WORK COORDINATE AND SCHEDULE WITH OWNER PRIOR TO PERFORMING WORK.

DRAWING NOTES

1. DISCONNECT EXISTING ROOFTOP UNIT FROM BRANCH CIRCUIT BREAKER (70A-3P) IN PANELBOARD A (FEDERAL PACIFIC NALP 24-4L) AND FROM EXISTING ROOFTOP UNIT TO BE REPLACED. REMOVE BRANCH CONDUCTORS / CONDUIT IN ENTIRETY AND EXISTING CIRCUIT BREAKER IS TO BE REMOVED.
2. EXISTING MAIN SERVICE ENTRANCE SWITCHGEAR, 208Y/120V, 300A, 3PH 4W (FEDERAL PIONEER TYPE COP SN 1838820-01 / SCHNEIDER ELECTRIC), COMPLETE WITH PUC COMPARTMENT AND INTEGRAL DISTRIBUTION PANELS TO REMAIN.
3. PROVIDE NEW CIRCUIT BREAKERS AS FOLLOWS AND UPDATE PANEL DIRECTORY TO REFLECT THE CHANGES INCLUDING THOSE RE-PURPOSED AS SPARES:
-QTY 1 - 80A-3P - RTAC-1
-QTY 1 - 20A-1P - ROOFTOP CONVENIENCE RECEPTACLE
4. ADDITIONAL ELECTRICAL LOADING BY THIS RENOVATION -15KW
5. SUPPLY AND INSTALL CONDUCTORS IN CONDUIT ALONG US OF CEILING FOR NEW HVAC UNIT AND CONVENIENCE RECEPTACLE:
-3C #3 AWG + GND R90 COPPER IN 35mm EMT. FOR NEW HVAC UNIT RTAC-1.
-2C #12 AWG + GND R90 COPPER IN 16mm EMT. FOR CONVENIENCE RECEPTACLE.
APPROXIMATE ROUTING IS SHOWN. THIS CONTRACTOR SHALL DETERMINE BEST ROUTING ON SITE CW NECESSARY BENDS, OFFSETS AND PULL BOXES.
6. WITHIN THIS ROOM, ARRANGE FOR REMOVAL AND REINSTALLATION OF CEILING TILES WITH GENERAL CONTRACTOR. ANY TILES DAMAGED BY THIS WORK ARE TO BE REPLACED. ALLOW IN PRICE FOR TEMPORARILY REMOVING LIGHT FIXTURES, FIRE ALARM DEVICES OR ANY OTHER IMPEDIMENTS TO INSTALL THE FEEDER CONDUIT IN CEILING SPACE AFTER INSTALLATION, RE-INSTALL ALL LIGHT FIXTURES AND
7. TERMINATE BRANCH CIRCUITS AT RTAC-1 FUSED DISCONNECT (PROVIDED BY OTHERS WITH HVAC UNIT) AND CONVENIENCE RECEPTACLE (GFI PROVIDED BY THIS CONTRACTOR). THIS CONTRACTOR SHALL MOUNT THESE DEVICES AT REQUIRED LOCATIONS ON UNIT PER MANUFACTURER INSTRUCTIONS AND PER OESC REQUIREMENTS. FUSED DISCONNECT TO HAVE MIN. 1m WORKING CLEARANCE WITH SECURE FOOTING IN FRONT. RECEPTACLE TO BE MIN. 750mm ABOVE FINISHED ROOF.
8. DISCONNECT EXISTING EXHAUST FAN FROM BRANCH BREAKER IN DISTRIBUTION PANEL SECTION AND FROM UNIT BEING REMOVED BY OTHERS (QTY. 2 LOCATIONS). REMOVE BRANCH CONDUCTORS / CONDUIT IN ENTIRETY AND EXISTING BREAKERS ARE TO REMAIN AS SPARE.
9. NEW MANUAL PULL STATION TO BE TIED INTO SAME ZONE AS EXISTING WITHIN GYM.



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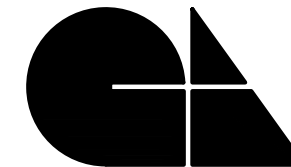


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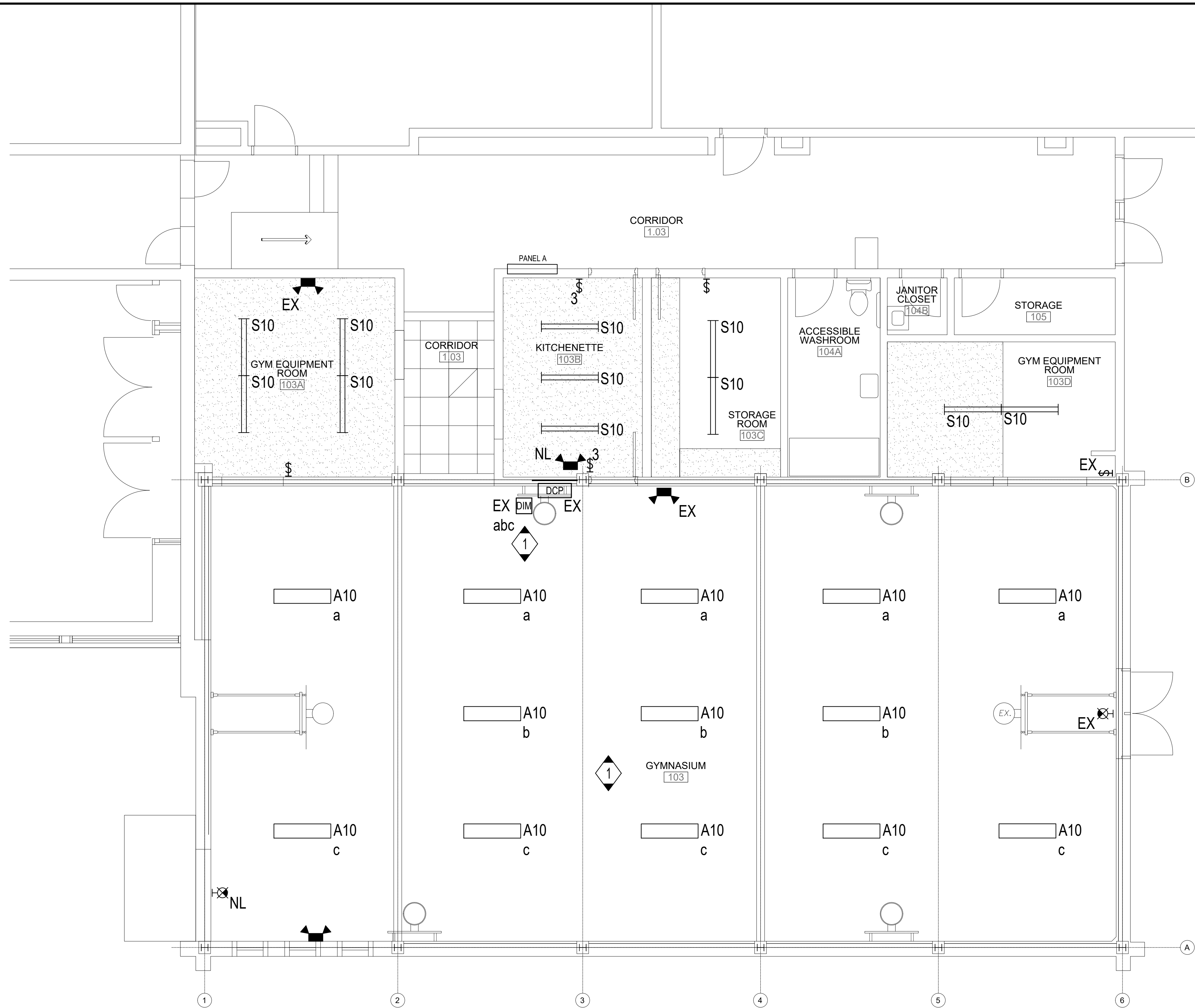
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1 GYM FLOOR PLAN - LIGHTING NEW
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GENERAL LIGHTING NOTES

- DRAWINGS ILLUSTRATE INTENT AND DO NOT NECESSARILY REPRESENT ALL REQUIRED CONTROL COMPONENTS, FINAL WIRING METHODS OR FIXTURE MOUNTING LOCATIONS. DETERMINE THE FINAL SYSTEM INSTALLATION BASED ON THE PRODUCT MANUFACTURER'S SHOP DRAWINGS. REFER TO THE ARCHITECTURAL DRAWINGS FOR PRECISE MOUNTING LOCATION OF LUMINAIRES.
- EXIT SIGNS ARE TO BE MOUNTED SO THEY ARE VISIBLE UPON APPROACH - NO HIGHER THAN 3000 AFF AND NO LOWER THAN 2100 AFF.
- WALL MOUNTED OCCUPANCY SENSORS ARE TO BE MOUNTED 3000 AFF OR AS HIGH AS POSSIBLE WHEN CEILINGS ARE LESS THAN 3000 HIGH.
- CEILING MOUNTED DUAL TECHNOLOGY (DT) SENSORS ARE TO BE MOUNTED NO HIGHER THAN 3000 AFF.
- CEILING MOUNTED MULTI-FUNCTION (MF) OR PHOTO INFRA RED (PIR) OCCUPANCY SENSORS ARE TO BE MOUNTED NO HIGHER THAN 3000 AFF.
- STRIP LIGHTS ARE TO BE CHAIN HUNG OR SURFACE MOUNTED NO HIGHER THAN 3000 AFF. MOUNTING HEIGHT SHALL BE CONSISTENT WITHIN ANY GIVEN SPACE.
- CONTROL DEVICES SHALL BE MOUNTED IN ACCESSIBLE LOCATIONS ABOVE THE CEILING. WHERE FIXTURES ARE INSTALLED IN HARD CEILINGS, CONTROL DEVICES SHALL BE MOUNTED WITHIN THE FIXTURE DRIVER CHAMBER OR REMOTE MOUNTED IN THE NEAREST ACCESSIBLE CEILING. CONTROL DEVICES SHALL BE LABELED WITH THE CORRESPONDING CONTROL ZONE AND POWER CIRCUIT.
- CONTROL DEVICES SHALL BE MOUNTED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SO THEY ARE CAPABLE OF OPERATING PROPERLY WITHOUT FALSE 'ON' OR 'PREMATURE OFF' OPERATIONS. DUAL TECHNOLOGY OCCUPANCY SENSORS SHALL NOT BE MOUNTED WITHIN 610 mm OF ANY HVAC DIFFUSER.
- CIRCUITS USED ARE FOR CIRCUITING PURPOSE ONLY. CONNECT NEW FIXTURES AND EXIT SIGNS TO EXISTING LOCAL NORMAL AND EMERGENCY POWER LIGHTING CIRCUITS AS INDICATED. LIGHTING IN SPACES IDENTIFIED AS NOT IN CONTRACT (IE. SHADED GREY) SHALL BE RE-CONNECTED TO THE SAME POWER PANEL(S) AS THEY WERE PRIOR TO START OF DEMOLITION WORK.



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DRAWING NOTES

- EXISTING SWITCHING ARRANGEMENT IS TO BE REVISED AS INDICATED.
- CONNECT NEW EMERGENCY BATTERY UNIT HEAD TO EXISTING EMERGENCY BRANCH CIRCUIT. MODIFY TO SUIT.



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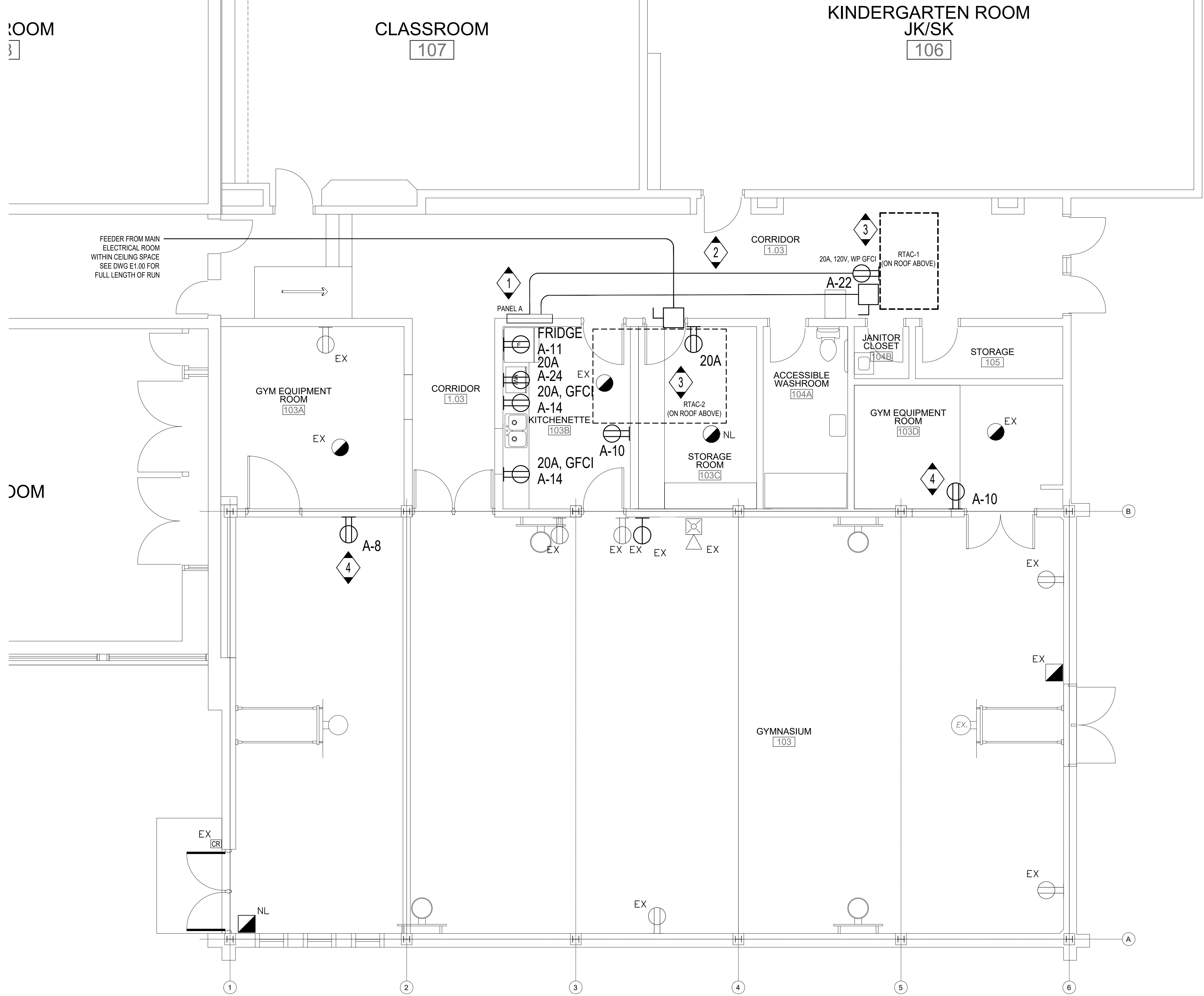
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1 GYM FLOOR PLAN - POWER & SYSTEMS NEW
E3.10 1:50

GENERAL NOTES

- PRIOR TO BIDDING, ELECTRICAL CONTRACTOR SHALL VISIT SITE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS INCLUDING BUT NOT LIMITED TO EQUIPMENT LOCATIONS AND OTHER POSSIBLE INSTALLATION DIFFICULTIES. PAY AND OBTAIN ANY PERMITS REQUIRED INCLUDING ESK.
- ALL CONDUIT ROUTES SHOWN ON DRAWINGS ARE APPROXIMATE AND NOT FINAL. CONTRACTOR SHALL VERIFY ROUTES AND DO A WALKTHROUGH BEFORE BID. CONTRACTOR SHALL ACCOUNT FOR POSSIBLE DAMAGE AND REPAIR TO EXISTING CEILING AND LIGHT FIXTURES. ALL MAIN CONDUIT RUNS SHALL BE IN CORRIDOR CEILING SPACE.
- EXTEND/PROVIDE NEW WIRING/CONDUIT FOR ALL DEVICES THAT ARE RELOCATED.
- ALL NEW RECEPTACLES IN THE SCHOOL SHALL BE TAMPER RESISTANT TYPE.
- REMOVE AND RE-INSTALL ALL REQUIRED T-BAR OR DRY TYPE CEILINGS TO FACILITATE ELECTRICAL INSTALLATIONS. ANY DAMAGES TO T-BAR SHALL BE RE-INSTATED.
- UNLESS OTHERWISE NOTED WITH A CIRCUIT NUMBER, RE-USE EXISTING CIRCUIT BREAKERS THAT HAD BECOME SPARE FROM THE DEMOLITION TO FEED NEW RECEPTACLES. MAXIMUM 6 DUPLEX RECEPTACLES PER CIRCUIT UNLESS OTHERWISE NOTED.
- ALL I.T. CABLES SHALL BE PLENUM RATED.
- CONTRACTOR SHALL ACCOUNT FOR POSSIBLE DAMAGE AND REPAIR TO CEILING TILES FOR CONDUIT RUNS FROM PANELS TO NEW ELECTRICAL DEVICES.
- CIRCUIT NUMBERS SHOWN ON THIS PLAN ARE FOR CIRCUITING PURPOSE ONLY. REUSE EXISTING SPARE BREAKERS OR EXISTING BREAKERS MADE SPARE FROM DEMOLITION AND/OR REPLACE OBSOLETE BREAKERS WITH NEW AND/OR ADD NEW BREAKERS IN AVAILABLE SPACES IN EXISTING ELECTRICAL PANELS AS REQUIRED OR REPLACE EXISTING PANELS WITH NEW AS INDICATED. CONFIRM EXISTING CONDITIONS ON SITE.



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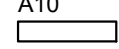
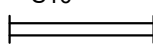
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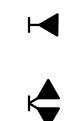
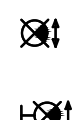
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LIGHTING FIXTURE SCHEDULE					
TYPE	DESCRIPTION / REQUIREMENTS	MOUNTING	INPUT WATTS	MANUFACTURER	
A10 	- 8" WIDTH 4" LENGTH - 18GA. STEEL HOUSING - POLYCARBONATE LENS - VANDAL RESISTANT - 4000 LUMEN OUTPUT - 4000K COLOUR TEMPERATURE, 80 CRI - 120V LED DRIVER	PENDANT MOUNTED	125.9 W	COOPER - FAILSAFE HVSL8 OR APPROVED EQUALS	
S10 	- 4'-0" LED STRIP ROUND - SEMI FROST LENS-NARROW - 3500 LUMEN OUTPUT - 4000K COLOUR TEMPERATURE, 80 CRI - 120V LED DRIVER	SURFACE MOUNTED	55W	COOPER LIGHTING - METALUX SNLED LENSED OR APPROVED EQUALS	
<p><u>NOTE:</u></p> <p>1. FIXTURE DESCRIPTION AND REQUIREMENTS LISTED ARE RECOMMENDATIONS FOR THE FIXTURE TYPE UTILIZED IN THIS PROJECT AND MAY NOT INCLUDE ALL OPTIONS AVAILABLE FOR EVERY MANUFACTURERS FIXTURE SERIES LISTED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE FIXTURE INSTALLED WITH ALL NECESSARY HARDWARE.</p>					

EMERGENCY LIGHTING FIXTURE SCHEDULE				
TYPE	DESCRIPTION / REQUIREMENTS	MOUNTING	INPUT WATTS	MANUFACTURER
	EMERGENCY 24V DC LIGHTING BATTERY UNIT WITH DUAL HEADS 4W LED MR16,	WALL MOUNTED	360 W 114W FOR EB6	BEGHELLI - NV-24-360-SR2-AT-A-V-ACTB-DCTB-MS OR APPROVED EQUALS
	- REMOTE LED EMERGENCY HEADS -SINGLE HEAD -DOUBLE HEADS -24VDC	WALL /CEILING MOUNTED	5W - 1 HEAD 10W - 2 HEADS	BEGHELLI SR1 , SR2 OR APPROVED EQUALS
	-GREEN RUNNING MAN SIGN -SLIM WHITE ALUMINUM HOUSING -LED -120VAC/24VDC -REFER TO DRAWINGS FOR PICTOGRAM AND ARROW REQUIREMENTS	WALL/CEILING MOUNTED	2 W	BEGHELLI #OV-RM-L-1-PICTOGRAM-W/C OR APPROVED EQUALS
<u>NOTE:</u> 1. FIXTURE DESCRIPTION AND REQUIREMENTS LISTED ARE RECOMMENDATIONS FOR THE FIXTURE TYPE UTILIZED IN THIS PROJECT AND MAY NOT INCLUDE ALL OPTIONS AVAILABLE FOR EVERY MANUFACTURERS FIXTURE SERIES LISTED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE FIXTURE INSTALLED WITH ALL NECESSARY HARDWARE.				

PANEL	LOCATION	VOLTAGE	PHASE	WIRE	MAINS	AMPS	A.I.C.	ENCLOSURE	MOUNTING	FED FROM
A	GYM CORRIDOR	120 / 208	3	4	MLO	100A	10kA	NEMA 1	RECESSED	SWBD
CCT	LOAD DESCRIPTION	VA	CB OPT	CB	PH	CB	CB OPT	VA	LOAD DESCRIPTION	CCT
1	GYM LIGHTING		15	A	15				EMERGENCY LIGHTING	2
3	GYM LIGHTING		15	B	15				STAGE LIGHTING	4
5	ROOM #107 RECEPTS		15	C	15				CHANGE ROOM LIGHTING	6
7	HALL LIGHTING		15	A	15				GYM RECEPTS	8
9	HALL RECEPTS		15	B	15				RECEPTS (NOTE 1)	10
11	FRIDGE (NOTE 1)		15	C	15				HALL & KINDERGARDEN RECEPTS	12
13	CLASSROOM RECEPTS		15	A	20				O C KITCHEN RECEPTS	14
15	STAGE LIGHTING		15	B	20				EXHAUST FAN	16
17	AUTOZONE PANEL		15	C	15				ROOM #4 RECEPTS	18
19				A	15				ROOM #1 & 2 RECEPTS	20
21	AHU (NOTE 2)		50	B	20				ROOF TOP RECEPTS	22
23				C	20				MICROWAVE	24
<p>CB OPT: ST - SHUNT TRIP AF - ARC FAULT CIRCUIT INTERRUPTER GF - GROUND FAULT CIRCUIT INTERRUPTER FR - 100% RATED L - LOCKABLE</p> <p>PHASE TOTALS PHASE-A PHASE-B PHASE-C</p> <p>NOTES: 1.REWORK EXISTING BRANCH CIRCUIT FOR STAGE RECEPTS TO NEW FRIDGE AND RECEPTACLES. MODIFY TO SUIT. 2.REPLACE EXISTING 70A-3P BREAKER WITH NEW 80A-3P BREAKER. M ODIFY TO SUIT. 3.MATCH NEW BREAKER K4IC RATING WITH EXISTING BREAKER K4IC RATING.</p>										
TOTAL CONNECTED										



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