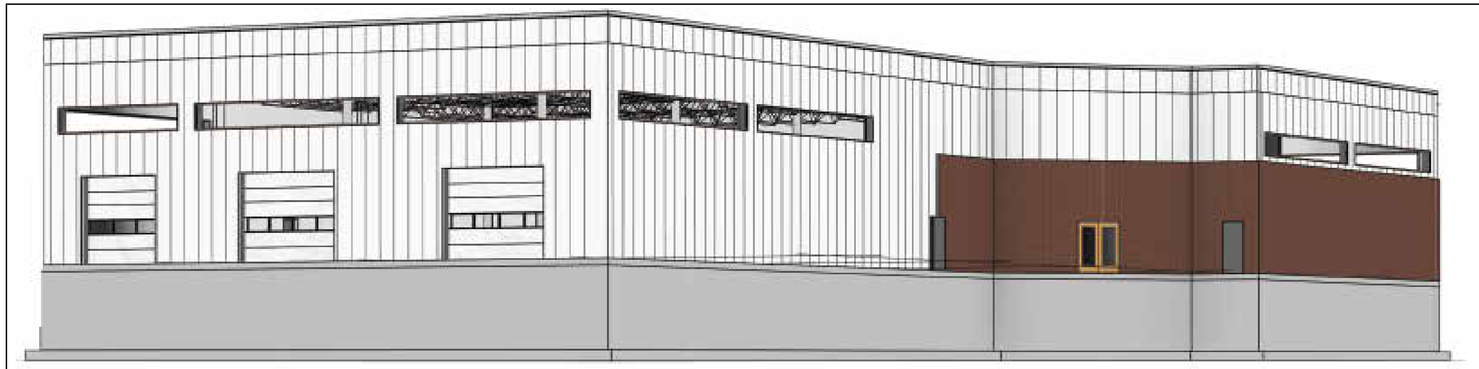


OBC DATA MATRIX

Name of Practice:
Algonquin Centre for Construction Excellence
Architectural Technician Program
ARC8404C - Working Drawings IV
Winter 2024

Name of Project:
Shared Government Services Emergency Management and Vehicle Repair Facility.

Location:
Town of Petawawa, Ontario.

Submitted by:
EKTA CHAVDA

Date:
02/23/2024

Ontario Building Code Data Matrix Part 3

			Building Code Reference [1]
3.00	Building Code Version:	O. Reg. 332/12 Last Amendment O. Reg. 89/23	
3.01	Project Type:	☒ New Construction ☐ Addition ☐ Renovation ☐ Change of use ☐ Addition and renovation Description:	[A] 1.1.22.
3.02	Major Occupancy Classification:	Occupancy: F2 GARAGE; D OFFICE	3.1.2.1 (4)
3.03	Superimposed Major Occupancies:	☒ No ☐ Yes Description:	3.2.2.7.
3.04	Building Area (m^2)	Description: Existing New Total FIRST FLOOR 0 1487 0 SECOND FLOOR 0 614 0 0 0 0 0 0 0 Total 0 2101 0 Insert additional lines as needed	[A] 1.4.1.2.
3.05	Gross Area (m^2)	Description: Existing New Total FIRST FLOOR 0 0 SECOND FLOOR 0 0 0 0 0 0 Total 0 0 0 0 0 Insert additional lines as needed	[A] 1.4.1.2.
3.06	Mezzanine Area (m^2) N/A	Description: Existing New Total 0 0 0 0 0 0 0 0 0 0 0 0 Total 0 0 0 Insert additional lines as needed	3.2.1.1.
3.07	Building Height	2 Storeys above grade 9.073 (m) Above grade 0 Storeys below grade	[A] 1.4.1.2. & 3.2.1.1.
3.08	High Building	☒ No ☐ Yes	3.2.6.
3.09	Number of Streets/ Firefighter access	2 street(s)	3.2.2.10 & 3.2.5.
3.10	Building Classification: (Size & Construction Relative to Occupancy)	3.2.2.72 Group/Div GROUP F, DIV 2 3.2.2.56 Group/Div GROUP D	3.2.2.20- 83.
3.11	Sprinkler System	☒ Required ☐ Not Required Provided: ☒ entire building ☐ selected compartments ☐ selected floor areas ☐ basement ☐ in lieu of roof rating ☐ none Description:	3.2.1.5. & 3.2.2.17, 3.2.2.18, 3.2.4.8. to 3.2.4.10. and 3.2.5.13
3.12	Standpipe System	☒ Not required ☐ Required	3.2.9.1
3.13	Fire Alarm System	☒ Required ☐ Not required Type Provided: ☐ Single stage ☐ Two stage ☐ None	3.2.4.1.
3.14	Water Service / Supply is Adequate	☐ No ☒ Yes	3.2.5.7.

3.15	Construction Type:	Restriction: ☒ Combustible permitted ☒ Non-combustible required ☐ Encapsulated mass timber Actual: ☐ Combustible ☒ Non-combustible ☐ Combination of combustible and non-combustible ☐ Encapsulated mass timber ☐ Combination of encapsulated mass timber and non-combustible Heavy Timber Construction: ☐ No ☐ Yes	3.2.2.20- 83. & 3.2.2.72(b) 3.2.1.4.
3.16	Importance Category:	☐ Low ☐ Low human occupancy ☐ Post-disaster shelter ☒ Normal ☐ High ☐ Minor storage building ☐ Explosive or hazardous substances ☐ Post-disaster	4.1.2.1.(3) & T4.1.2.1B
3.17 N/A	Seismic Hazard Index:	(I_E Fa Sa (0.2)) = 0 Seismic design required for Table 4.1.8.18. items 6 to 21: ((I_E Fa Sa (0.2)) ≥ 0.35 or Post-disaster) ☐ No ☐ Yes	4.1.2.1.(3) 4.1.8.18(1)
3.18	Occupant Load Insert additional lines as needed	Floor Level/Area: Occupancy Type: Based On: Occupant Load (Persons): Posted Limit Required GROUND FLOOR /1487: F2 STORAGE 46(32); D OFFICE 9.3(66) 0 SECOND FLOOR/ 614: 0 0	3.1.17. and 3.1.17.1(2)
3.19	Barrier-free Design: Barrier-free Entrances:	☒ Yes ☐ No Number 1	3.8.1.1. 3.8.1.2.
3.20	Hazardous Substances:	☐ Yes ☒ No	3.3.1.2. & 3.3.1.19

3.21	Required Fire Resistance Ratings	Horizontal Assembly: Rati (H): Supporting Assembly (H): Noncombustible in lieu of rating? Storeys below grade: 0 0 ☐ No ☐ Yes ☐ N/A Floors over basement: 0 0 ☐ No ☐ Yes ☐ N/A Floors: 45 mi 0 ☒ No ☒ Yes ☐ N/A Mezzanine: 0 0 ☐ No ☐ Yes ☐ N/A Roof: 0 0 ☐ No ☐ Yes ☐ N/A	3.2.2.20- 83., 3.2.1.2., 3.2.1.4., 3.2.2.15
3.22a N/A	Spatial Separation Insert additional lines as needed	Exposing Building Face: EBF Area (m^2): L/D (m): L/H or H/L: Required FRR (H): % Unprotected Openings Permitted: % Unprotected Openings Provided 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3.2.3.
3.22b N/A	Spatial Separation Continued Insert additional lines as needed	EBF (repeated): Construction Type: Cladding Type ☐ Noncombustible ☐ Noncombustible ☐ Noncombustible ☐ Noncombustible	
3.23a	Plumbing Fixture Requirements[1] Insert additional lines as needed	Ratio: Male:Female = 50:50 Except as noted otherwise Floor Level/Area: Occupant Load: OBC Reference: WCs Required: WCs Provided GROUND FLOOR/ 1487: 47 TBL 3.7.4.3 A 1 1 44 SECOND FLOOR/ 614: 0 TBL 3.7.4.3 A 1 1 0 0 0 0	3.7.4., 3.8.2.3.

3.23b	Plumbing Fixture Requirements continued: Insert additional lines as needed	Floor Level/Area (repeated): Barrier-free WCs Required: Barrier-free WCs Provided: Universal Washrooms Required: Universal Washrooms Provided GROUND FLOOR / 1487: 1 1 1 1 1 1 1 1 SECOND FLOOR/ 614: 0 0 0 0 0 0 0 0	Tables 3.8.2.3A and 3.8.2.3B
3.24	Energy Efficiency:	Compliance Path: Climate Zone: 6 Degree Days Below 18 C: 4980	12.2.1.2 SB-1 Table 2
3.25 N/A	Sound Transmission Design:	Is there more than 1 dwelling unit per building: ☐ Yes ☐ No Option Implemented: Notes:	SB-3, 5.8.1.2.(2), 5.8.1.4., & 5.8.1.5.
3.25	Notes: Insert additional lines as needed		

[1] All references are to Division B of the OBC, unless preceded by [A] for Division A and [C] for Division C.

ARCHITECTURAL

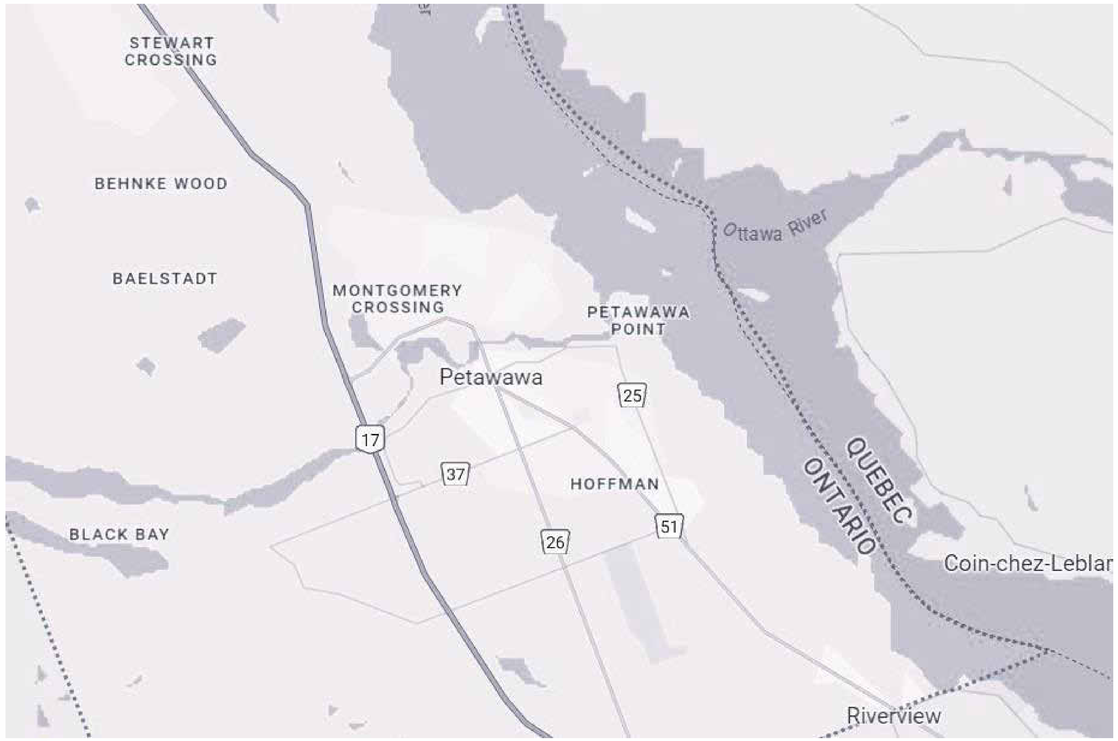
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A- 201	BUILDING ELEVATION
A- 301, A-302	EXTERIROR ELEVATIONS
A- 401, A-402	WALL SECTION AND DETAILS (SECTION AND PLAN)
A- 501	EXIT STAIRS (SECTION AND PLAN)
A- 601	CONSTRUCTION ASSEMBLIES, NOTES, AND LEGENDS, AND SCHEDULES

FUNCTIONAL PROGRAMME :

GENERAL PROJECT DESIGN INFORMATION:

1. 2 STORY REPAIR GARAGE, INCLUDIING SECOND FLOOR ADMINISTRATION AND MANAGEMENT OFFICES.
2. 3 VEHICLE BAYS C/W OVERHEAD DOORS (1 BAY IS FOR VEHICLE REPAIR)
3. THE BUILDING FACES AND THE MAIN ENTRANCE IS ACCESSED FROM PETAWAWA BOULEVARD
4. THE ENTIRE BUILDING IS SPRINKLERD.
5. STRUCTURAL STEEL FRAME AND SYSTEM.
6. ARCHITECTUTRAL BRICK VENEER STEEL STUD(BVSS) SYSTEM AND METAL SHEET CLADDING Z-GIRT STEEL FRAMING SYSTEM.

VICINITY MAP



winter 2024

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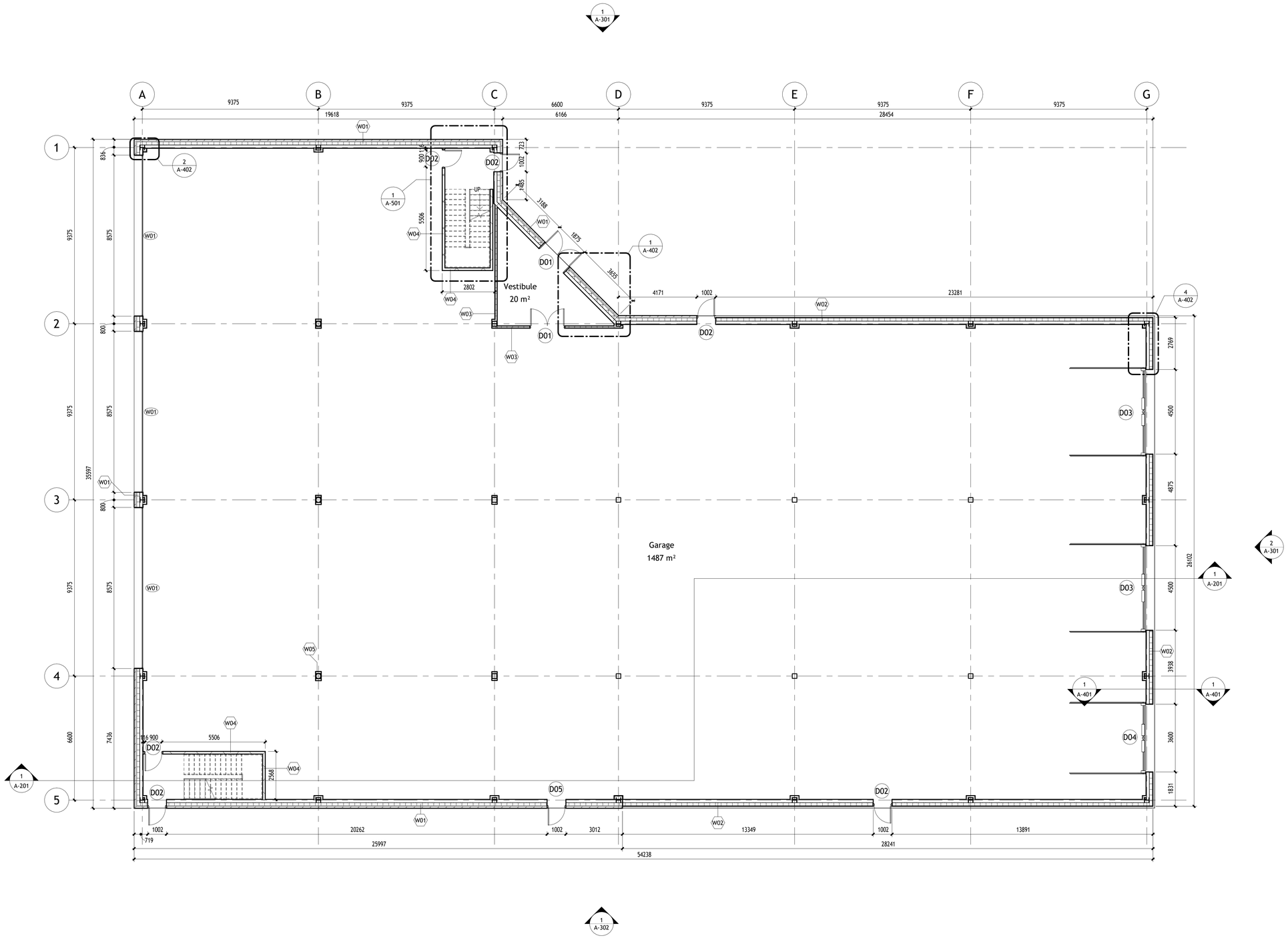
WORKING DRAWINGS IV

architectural technician w24

NAME : EKTA CHAVDA

SECTION : ARC8404C - 020
COURSE : WORKING DRAWINGS IV
SEMESTER : WINTER 2024
DATE : FEBRUARY 23, 2024

23-02-2024 12:40:44



1 GROUNF FLOOR PLAN

1 : 100

winter 2024

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TRUE NORTH

PROJECT NORTH

REFER TO DRAWING A-601 FOR CONSTRUCTION ASSEMBLIES, NOTES, LEGENDS, AND SCHEDULES

No.	Revision	Date

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WORKING DRAWINGS IV

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PROJECT TITLE:
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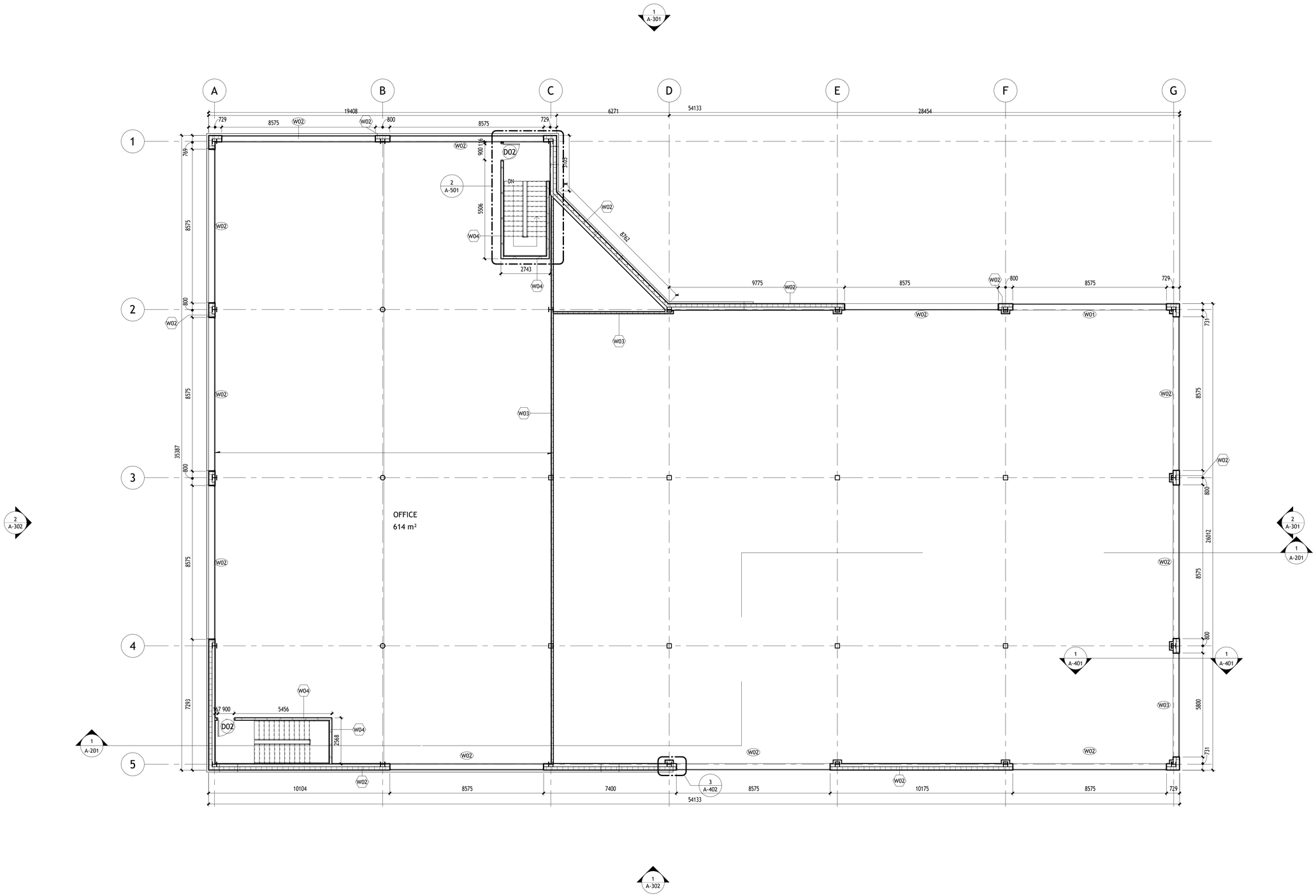
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GROUND FLOOR PLAN

SCALE:	DATE:
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PROJECT NUMBER:	DRAWN BY:
01 - 1.2	EKTA

SHEET No.:

A-101

23-02-2024 12:41:58



1 SECOND FLOOR PLAN

1 : 100

winter 2024

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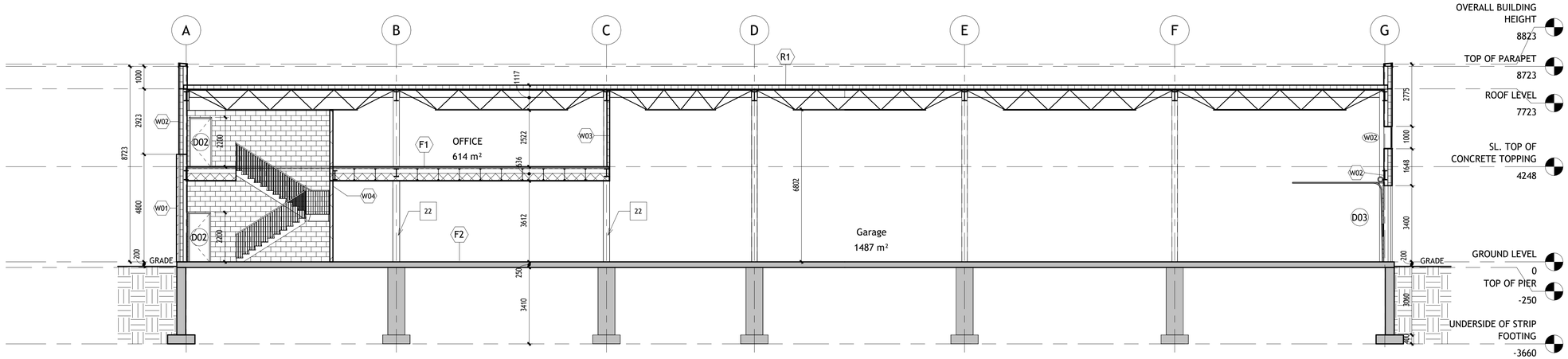
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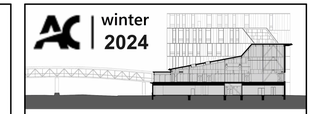
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1 BUILDING SECTION

1 : 100



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PROJECT TITLE:
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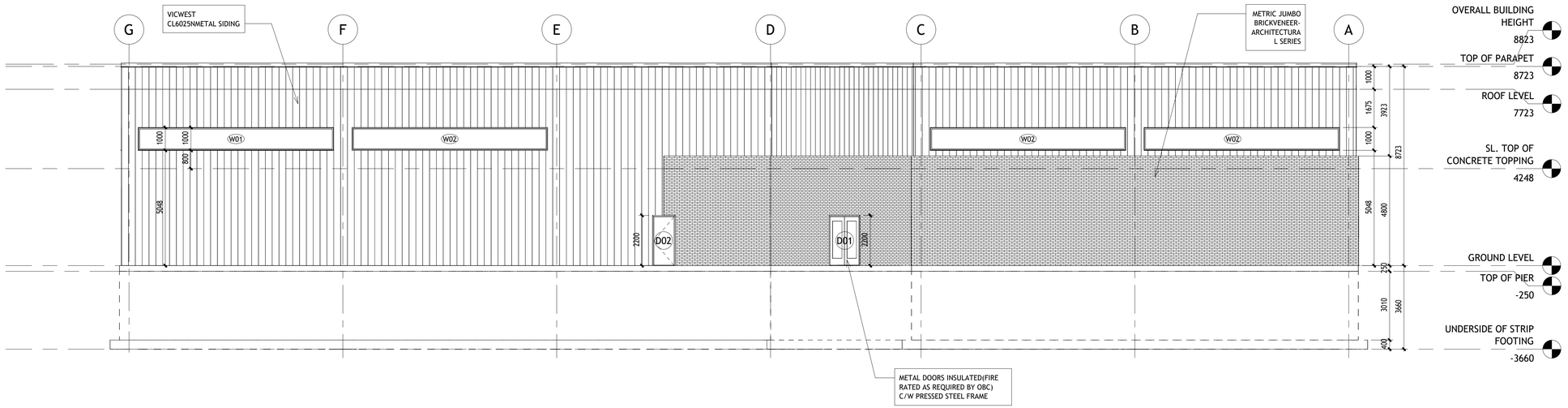
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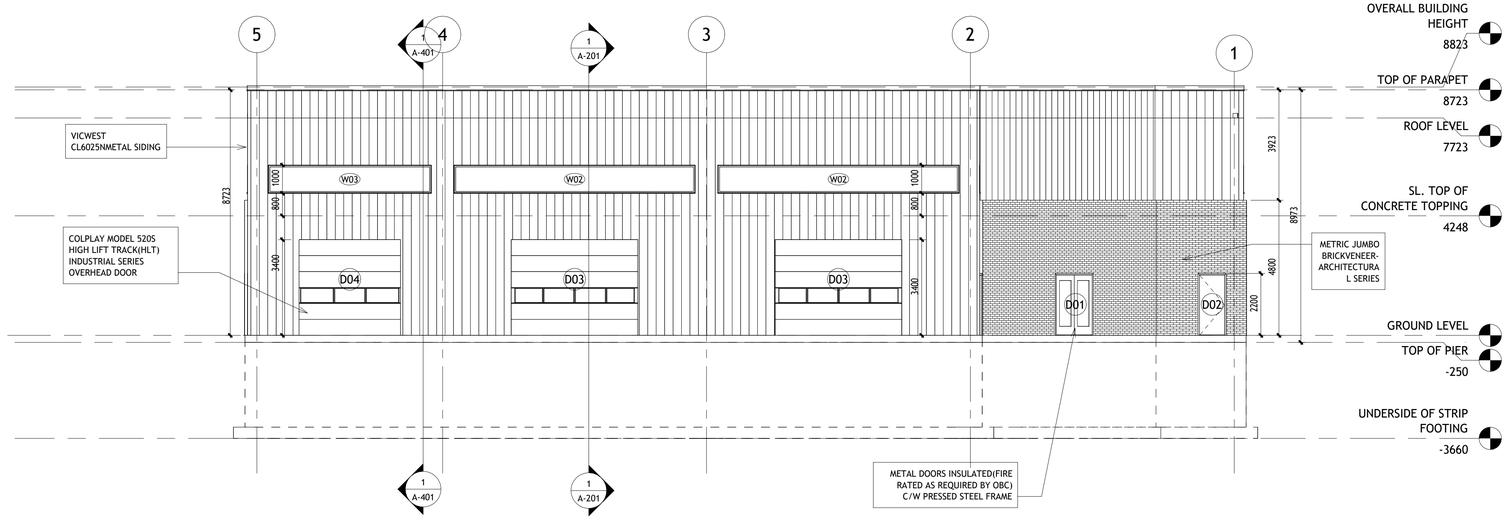
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1 NORTH ELEVATION

1 : 100



2 EAST ELEVATION

1 : 100

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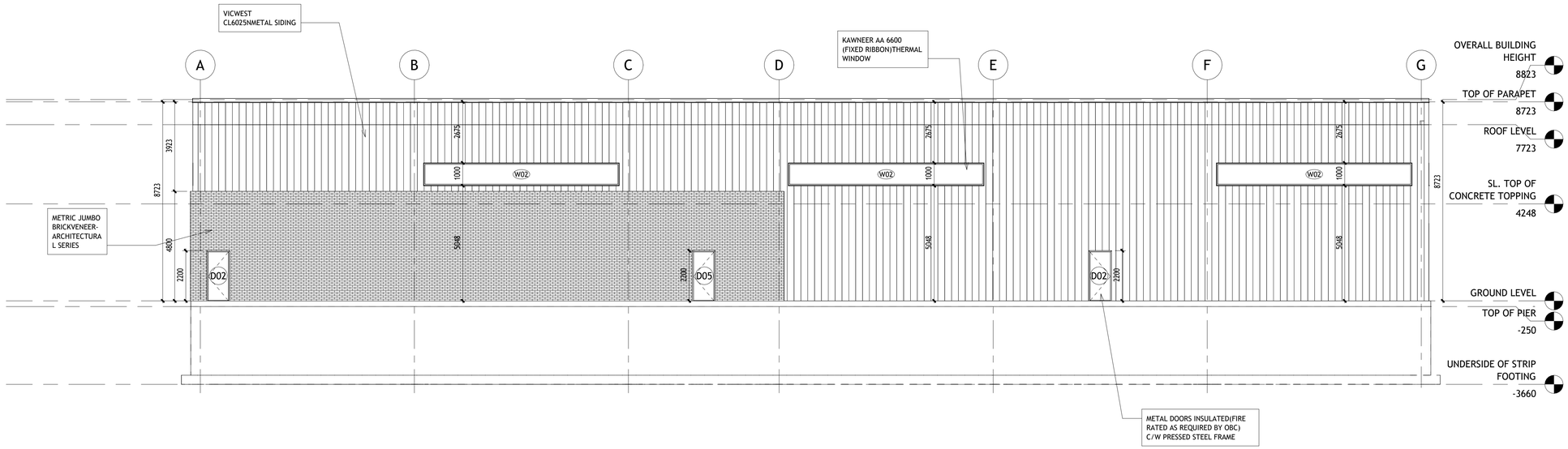
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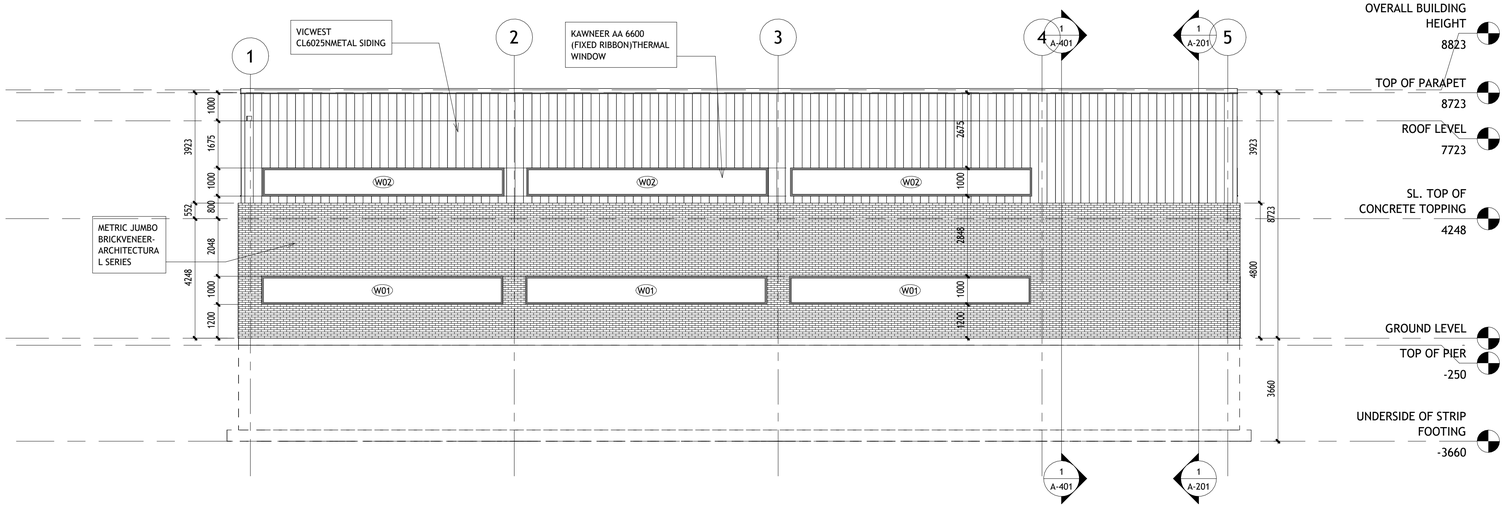
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1 SOUTH ELEVATION

1 : 100



2 WEST ELEVATION

1 : 100

winter 2024

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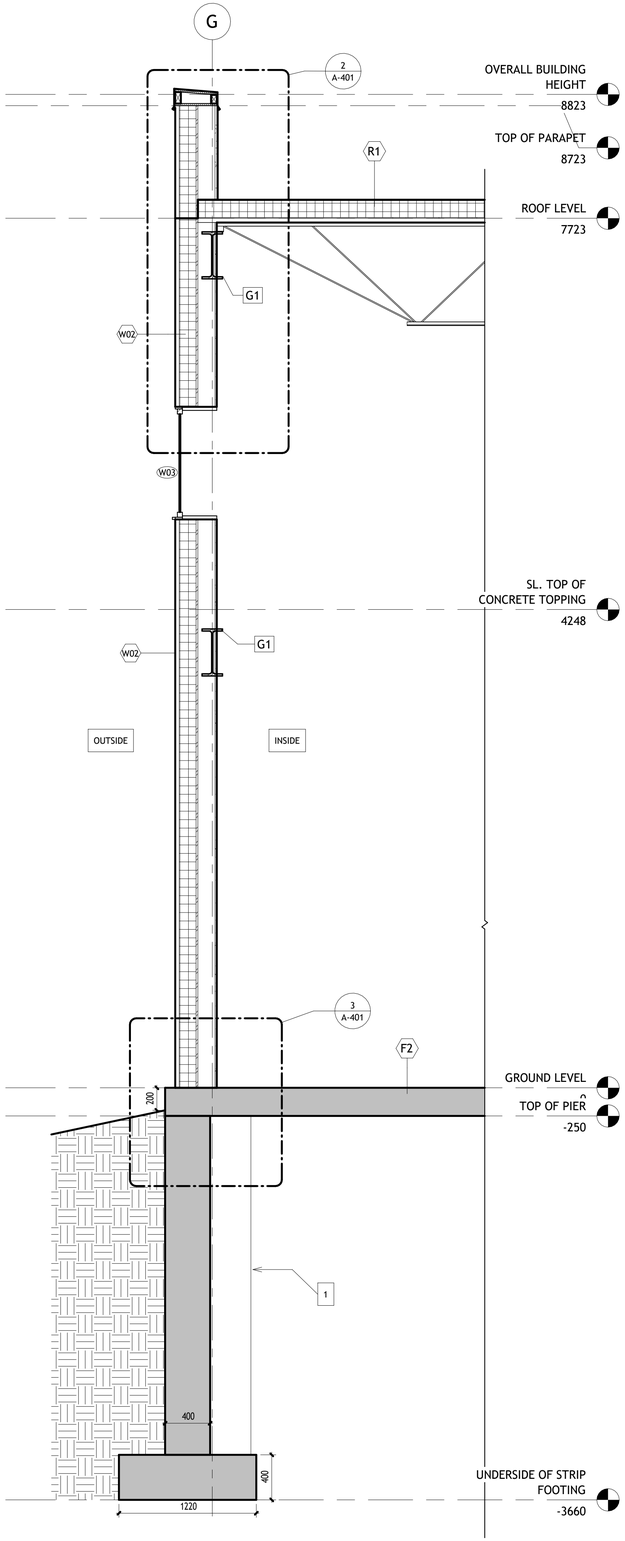
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SCALE:	DATE:
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01 - 1.2	EKTA

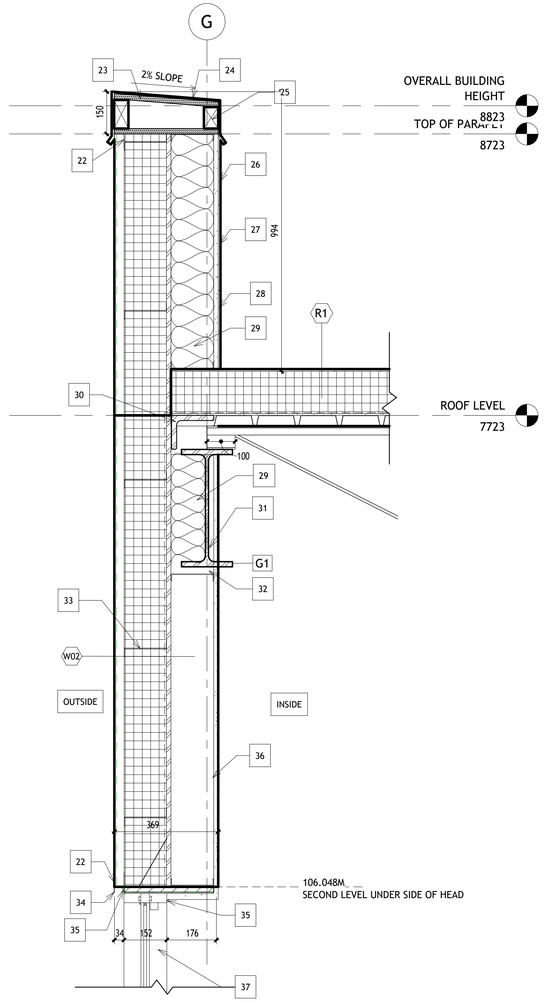
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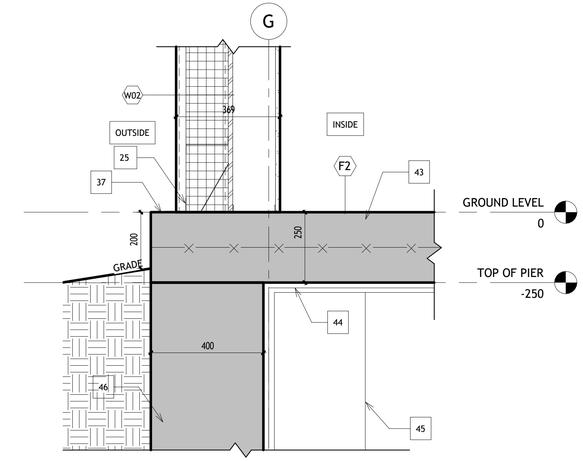
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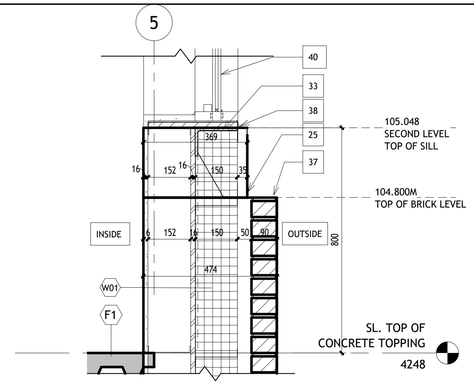
1 WALL SECTION
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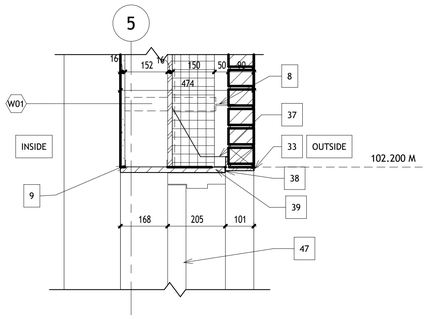
2 PARAPET/ROOF INCLUDING WINDOW HEAD
1 : 10



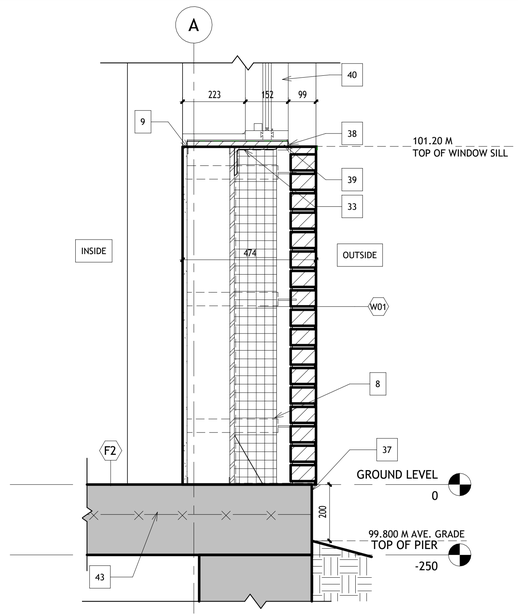
3 METAL CLADDING Z GIRT STEEL STUD SYSTEM BASE/ FOUNDATION
1 : 10



4 WINDOW SILL DETAIL
1 : 10



5 DOOR LINTEL DETAIL
1 : 10



6 FOUNDATION AND WINDOW DETAIL
1 : 10

winter 2024

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REFER TO DRAWING A-601 FOR CONSTRUCTION ASSEMBLIES, NOTES, LEGENDS, AND SCHEDULES

25. "J" TRIM
26. 1/2" PLYWOOD
27. METAL COPING
28. WOOD BLOCKING
29. CAP SHEET
30. BASE SHEET
31. SUPPORT BOARD
32. INSULATION
33. "L" ANGLE
34. W410 X 85
35. MULTI SLOT DEFLECTION
36. ZEE GIRT
37. METAL FLASHING
38. SEALANT
39. PLYWOOD (19 EXT GRADE)
40. KAWNNER AA6600 152.4 DEEP FRAM
41. METAL COVER
42. OVERHEAD DOOR
43. 35 MPA FIBER REINFORCED CONCRETE SLAB WITH 152 X152X13.1 W.W.M.
44. SLAB ON GRAD FLOOR UNHEATED INSULATION (SB-10)
45. PILASTER
46. 25 MPA FOUNDATION WALL
47. METAL DOOR C/W PRESSED STEEL FRAME

ABBREVIATION

G1 = GIRDER (W410 X 85)
C1 = COLUMN (W250 X 89)

No.	Revision	Date

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WORKING DRAWINGS IV
architectural technician w24

PROJECT TITLE:
SHARED GOVERNMENT SERVICES EMERGENCY MANAGEMENT AND VEHICLE REPAIR FACILITY

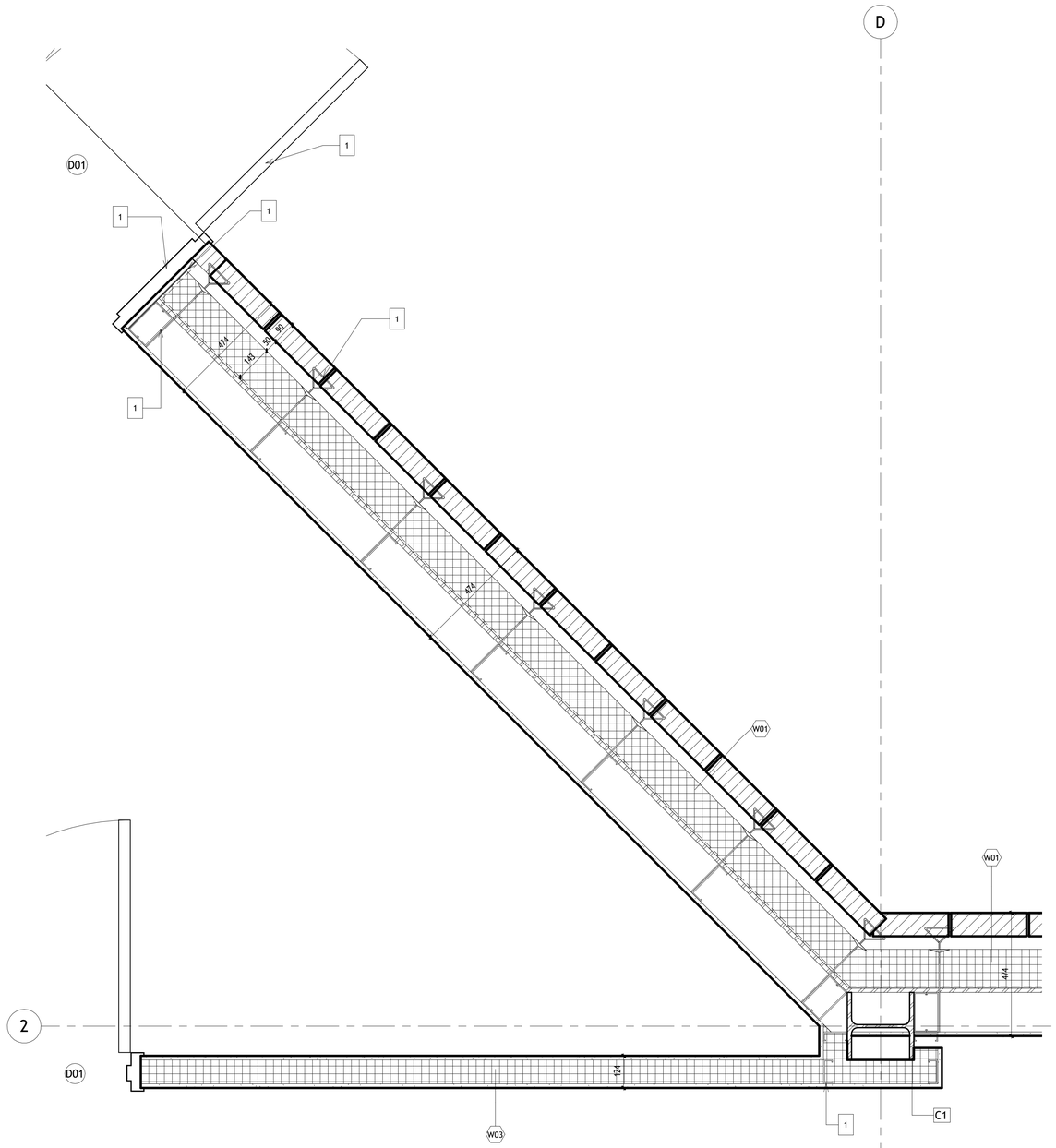
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WALL SECTION (METAL SIDING) AND DETAILS

SCALE:	DATE:
As indicated	02/23/24
PROJECT NUMBER:	DRAWN BY:
01 - 1.2	EKTA

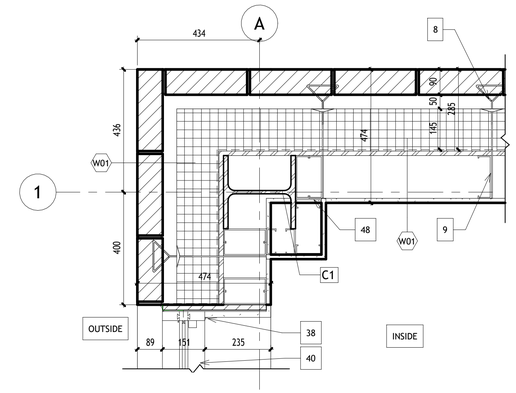
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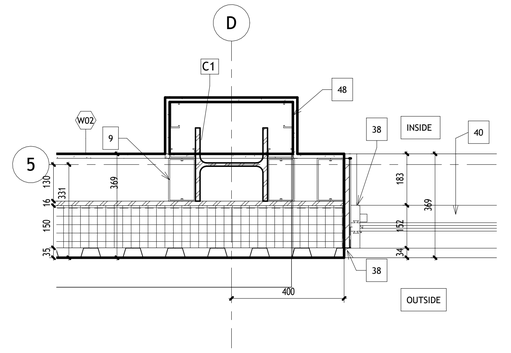
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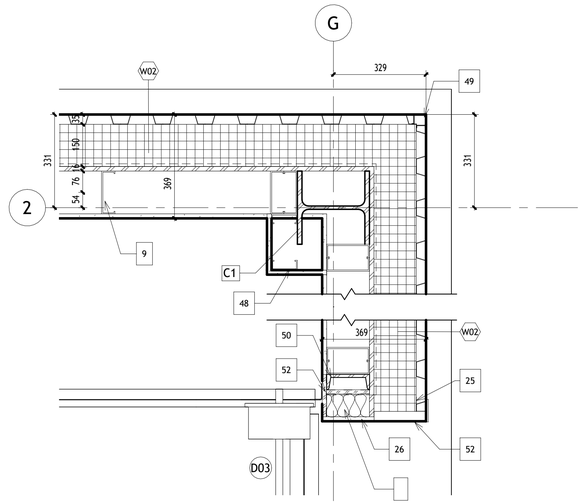
1 EXTERIOR EXIT DOOR JAMB DETAIL
1 : 10



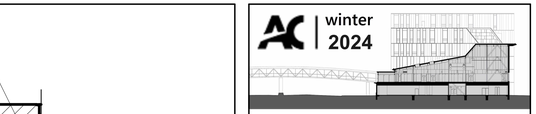
2 WINDOW JAMB DETAIL
1 : 10



3 S. F. WINDOW JAMB DETAIL
1 : 10



4 OVERHEAD DOOR JAMB DETAIL
1 : 10



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25. "J" TRIM
26. 1/2" PLYWOOD
27. METAL COPING
28. WOOD BLOCKING
29. CAP SHEET
30. BASE SHEET
31. SUPPORT BOARD
32. INSULATION
33. "L" ANGLE
34. W410 X 85
35. MULTI SLOT DEFLECTION
36. ZEE GIRT
37. METAL FLASHING
38. SEALANT
39. PLYWOOD (19 EXT GRADE)
40. KAWNNER AA6600 152.4 DEEP FRAM
41. METAL COVER
42. OVERHEAD DOOR
43. 35 MPA FIBER REINFORCED CONCRETE SLAB WITH 152 X152X13.1 W.W.M.
44. SLAB ON GRAD FLOOR UNHEATED INSULATION (SB-10)
45. PILASTER
46. 25 MPA FOUNDATION WALL
47. METAL DOOR C/W PRESSED STEEL FRAME
48. 62MM METLE STUD
49.WCWEST OUTSIDE CORNER
50. METAL SECTION
51. METAL PLATE
52. METAL COVER

ABBREVIATION

G1 = GIRDER (W410 X 85)
C1 = COLUMN (W250 X 89)

No.	Revision	Date

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WORKING DRAWINGS IV

architectural technician w24

PROJECT TITLE:
SHARED GOVERNMENT SERVICES EMERGENCY MANAGEMENT AND VEHICLE REPAIR FACILITY

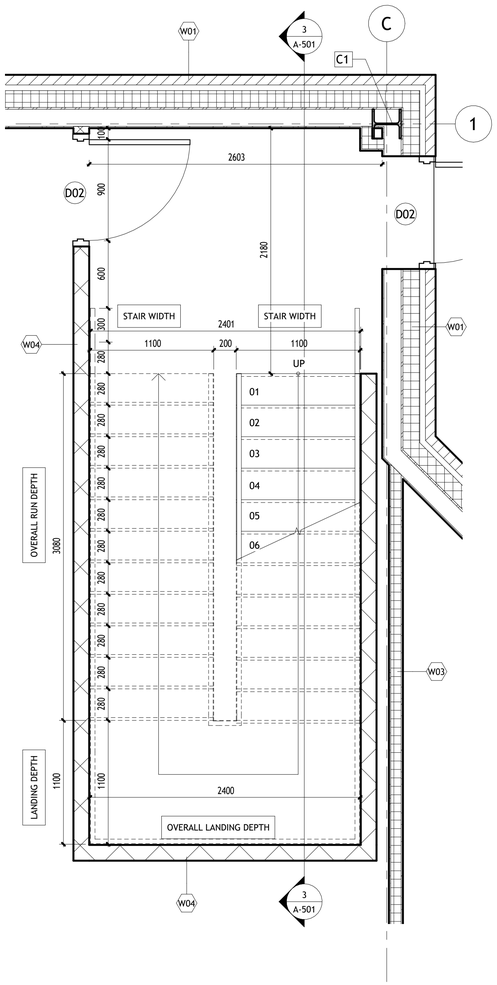
DRAWING TITLE:
PLAN DETAIS

SCALE:	DATE:
1 : 10	02/23/24
PROJECT NUMBER:	DRAWN BY:
01 - 1.2	Ekta

SHEET No.:

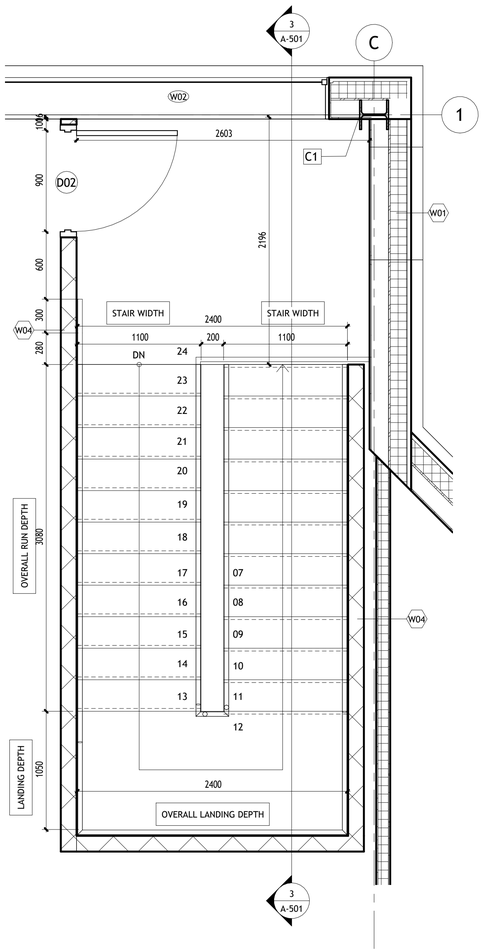
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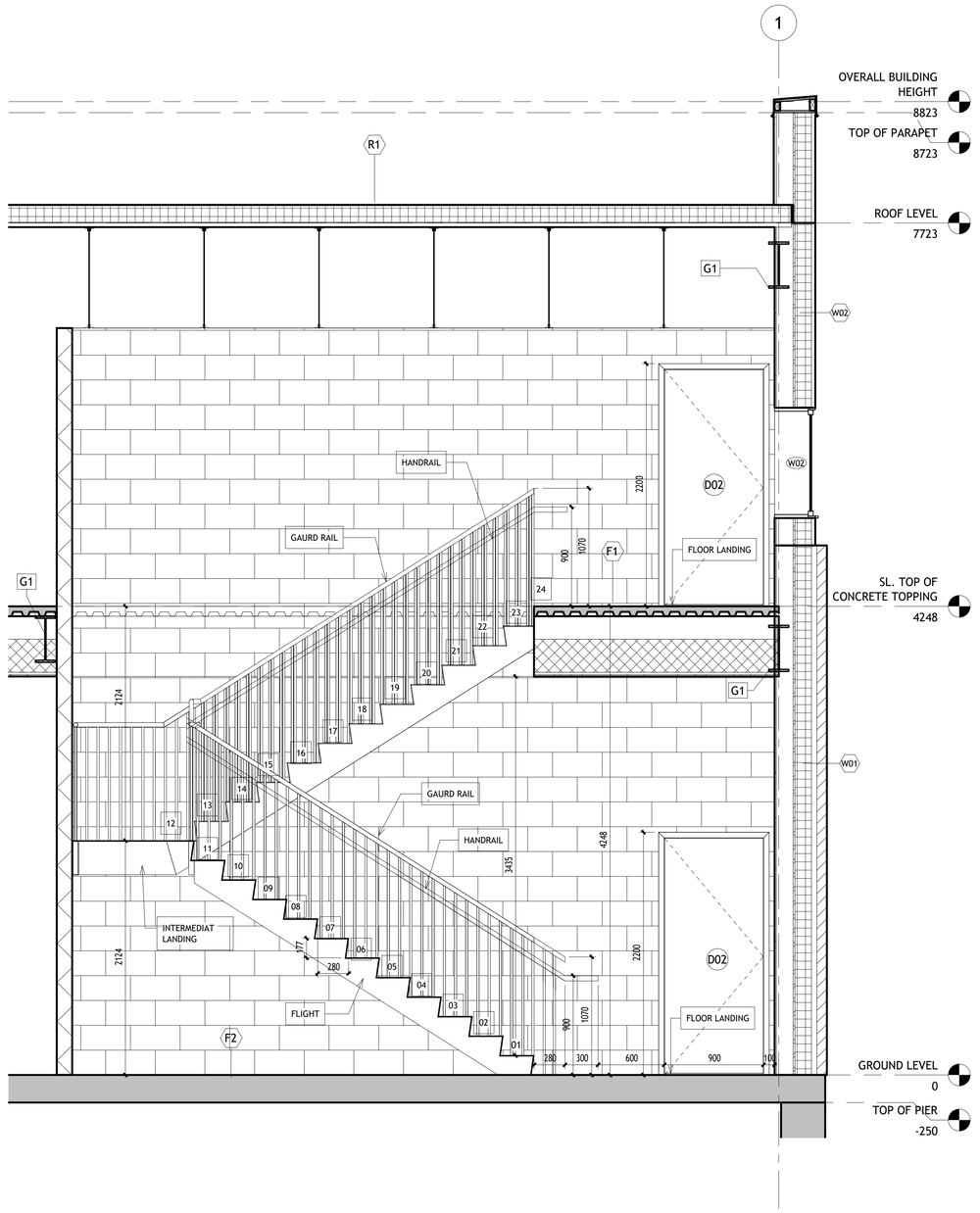
1 FIRST FLOOR STAIR PLAN

1 : 25



2 SECOND FLOOR STAIR PLAN

1 : 25



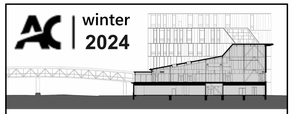
3 STAIRS SECTION

1 : 25

4248(FLOOR HEIGHT) / 24 = 177 MM RISER
RUN DEPTH = 280 MM

OBC REFERENCE:

3.4.6.8(8) : THREAD AND RISER
3.4.6.4. : DIMENTION OF LANDING
3.10.2.5 : EXIT REQUIRMENT
NOSING : MIN 6MM TO MAX 13 MM



winter 2024

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WORKING DRAWINGS IV

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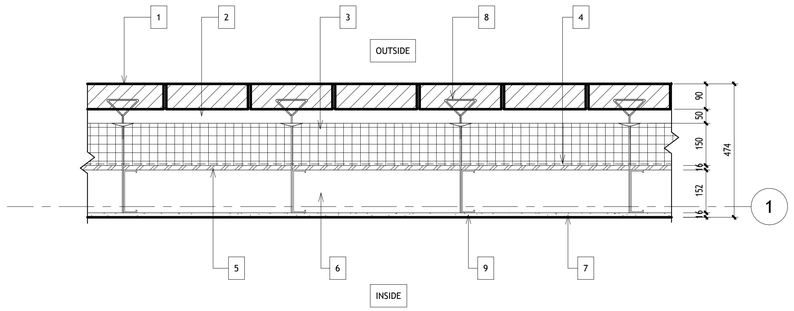
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EXIT STAIRS

SCALE:	DATE:
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PROJECT NUMBER:	DRAWN BY:
01 - 1.2	EKTA

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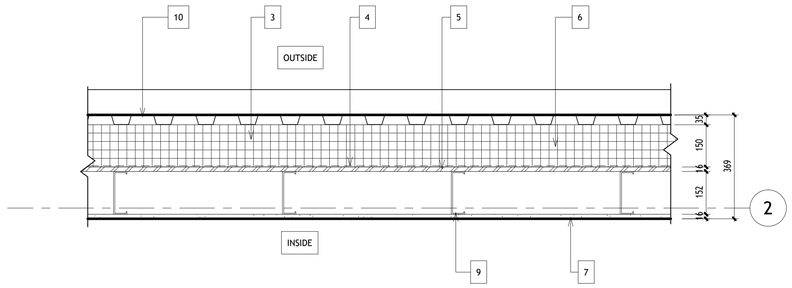
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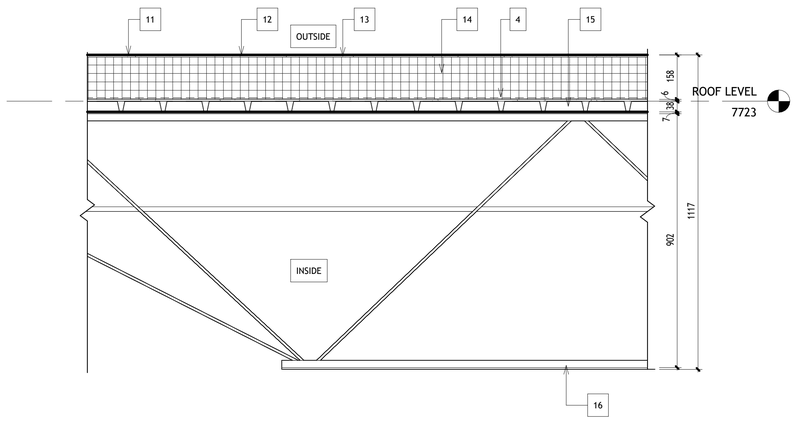
1 EX. WALL TYPE 1 (W1)

1 : 10



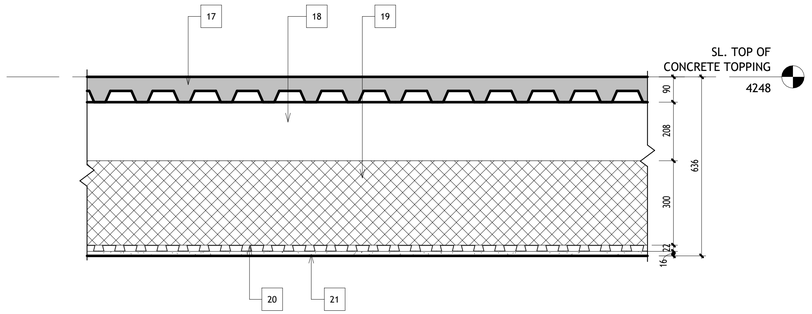
2 EX. WALL TYPE 2 (W2)

1 : 10



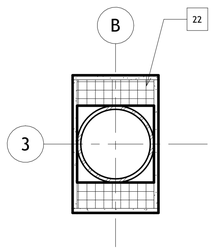
3 ROOF ASSEMBLY (R1)

1 : 10



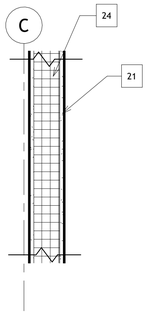
4 FLOOR ASSEMBLY (F1)

1 : 10



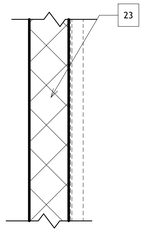
5 COLUMN COVER

1 : 10



7 INTERIOR WALL (W03)

1 : 10



6 STAIR WALL (W04)

1 : 10

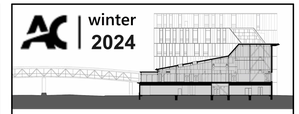
Door Schedule

Mark	Door Size Width	Height	Thickness	Material	Finish	Frame Material	Type	Finish	Head	Hardware From Room: Number	Comments
D01	1798	2149	44	Steel Doors	56701 Slate Grey	Steel	Wood Full Glass Pair	56701 Slate Grey	2200	105	
D02	900	2149	44	Steel Doors	56701 Slate Grey	Steel	flush	56701 Slate Grey	2200	<varies>	
D03	4500	3400	51	Steel Doors	56701 Slate Grey	Steel	Garage Door	56701 Slate Grey	2200	106	
D04	3600	3400	51	Steel Doors	56701 Slate Grey	Steel	Garage Door	56701 Slate Grey	2200	106	
D05	900	2149	44							106	

Window Schedule

Type Mark	Size Width	Height	Type	Material	Finish	Detail Sill	Glazing Thickness	Glazing Type	Head Height	Comments
W01	8575	1000	Fixed ribbon	Aluminum	Clear Anodized	1200	25 mm	insulating glass	<varies>	
W02	8575	1000	Fixed ribbon	<varies>	<varies>	<varies>	<varies>	<varies>	1800	
W03	5800	1000	Fixed ribbon	Aluminum	Clear Anodized	5448	25 mm	insulating glass	1800	

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1. METRIC JAMBO BRICK VEENER ARCHITECTURE SERIES.
2. AIR SPACE
3. EXTRUDED POLYSTYRENE(XPS) RIGID TYPE INISULATION
4. VAPOUR BARIER
5. SECUROX BRAND ULTRALIGHT GLASS-MAT SHEATHING
6. 1.6MM LIGHWEIGHT STEEL FRAMING BACKUP WALL
7. SHEETROCK BRAND AR FIRECODE X PANELS PAINT FINISH.
8. BRICK TIE RAP-TIE
9. STEEL STUD
10. METAL SHEET CLADDING Z GIRT STUD SYSTEM- VICWEST CLG025
11. MINERAL COATED CAP SHEET
12. BASS SHEET
13. PROTECTION BOARD
14. POLYISOCYANURATE RIGID TYPE INSULATION
15. ROOF DECK N20. 0.75 MM
16. OWSJ 36K4 @ 1200 O/C MAX
17. FINISH FLOOR - COMPOSITE FLOOR DECK (TOTAL DEPTH OF CONCRETE TOPPING = 90MM)
18. OPEN WEB STEEL JOIST (20K4)
19. 300 MM INSULATION
20. METAL CHANNEL
21. 16 MM GYPSUM BOARD FINISH
22. 1hr FRR column cover
23. 140MM CONCRETE BLOCK WALL
24. 92MM INSULATION

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architectural technician w24

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DRAWING TITLE:
CONSTRUCTION ASSEMBLIES , NOTES, LEGENDS AND SCHEDULES

SCALE:	DATE:
1 : 10	02/23/24
PROJECT NUMBER: 01 - 1.2	DRAWN BY: EKTA

SHEET No.:

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