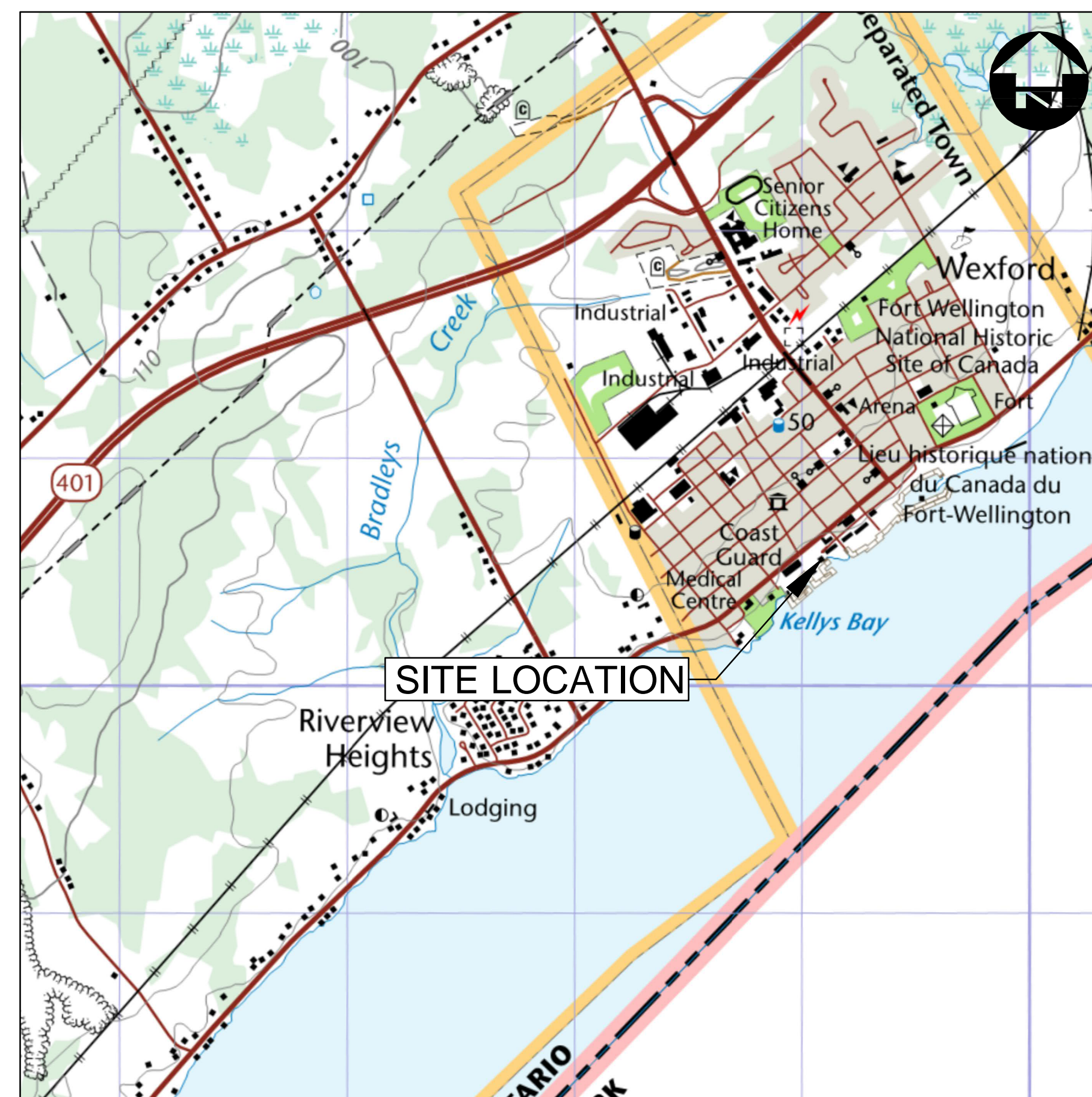


CANADIAN COAST GUARD BASE 401 KING STREET W, PRESCOTT, ON RECONDITIONING OF BUILDING 'F'



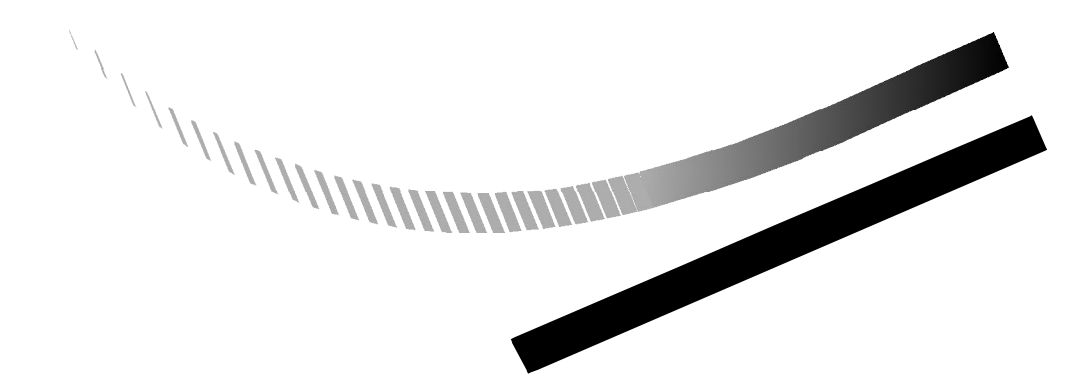
KEY PLAN

ISSUED FOR CONSTRUCTION

DILLON PROJECT: 20-2403
DATE: JUNE 2020

DRAWING INDEX

Sheet Number	Sheet Title
G1	RECONDITIONING OF BUILDING 'F' EXISTING SITE PLAN
G2	RECONDITIONING OF BUILDING 'F' EXISTING BUILDING CONDITIONS FLOOR PLAN, ELEVATIONS
S1	RECONDITIONING OF BUILDING 'F' GENERAL NOTES, DETAILS REMOVAL - SLAB PLAN, SECTION
S2	RECONDITIONING OF BUILDING 'F' NEW CONSTRUCTION - SLAB PLAN, SECTION
A1	RECONDITIONING OF BUILDING 'F' REMOVALS FLOOR PLAN, ELEVATIONS
A2	RECONDITIONING OF BUILDING 'F' REMOVALS BUILDING CROSS SECTION
A3	RECONDITIONING OF BUILDING 'F' NEW CONSTRUCTION FLOOR PLAN, ELEVATIONS
A4	RECONDITIONING OF BUILDING 'F' REMOVALS BUILDING CROSS SECTION
A5	RECONDITIONING OF BUILDING 'F' OUTLINE SPECIFICATIONS
E1	ELECTRICAL - DEMO, NEW POWER AND LIGHTING
E2	SPECIFICATIONS



DILLON
CONSULTING



401 KING STREET CANADIAN
COAST GUARD BASE

MECHANICAL
MAINTENANCE BUILDING

ENTRANCE GATE

BUILDING 'F'

KELLYS BAY

SOURCE:
ARCGIS (ESRI), GOOGLE EARTH PRO AND
DILLON CONSULTING LIMITED SITE VISIT
MARCH 2020.

LEGEND:
- - - - - APPROXIMATE PROPERTY BOUNDARY

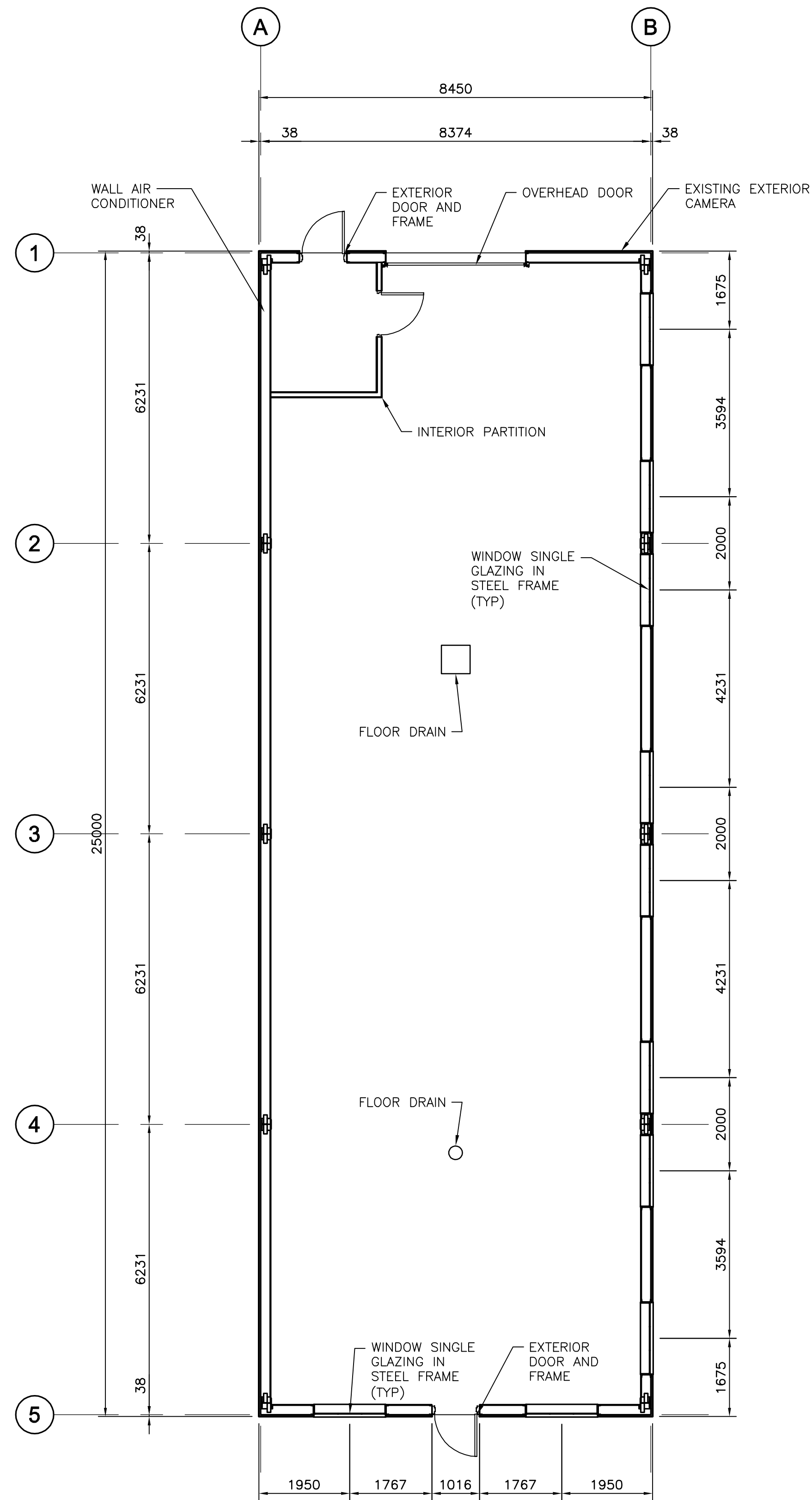
FILENAME: C:\PROJECTS\WORKING DIRECTOR\PROJECTS\2020\5018\1028\1028\02 SITE-CON'DWG PLOTTED BY: RONDEAU, TAMMY
 PLOT DATE: 2020-06-22 9:25:52 AM PLOT SCALE: 1:25.4 PLOT STATE: DILLON-STANDARD.CTB

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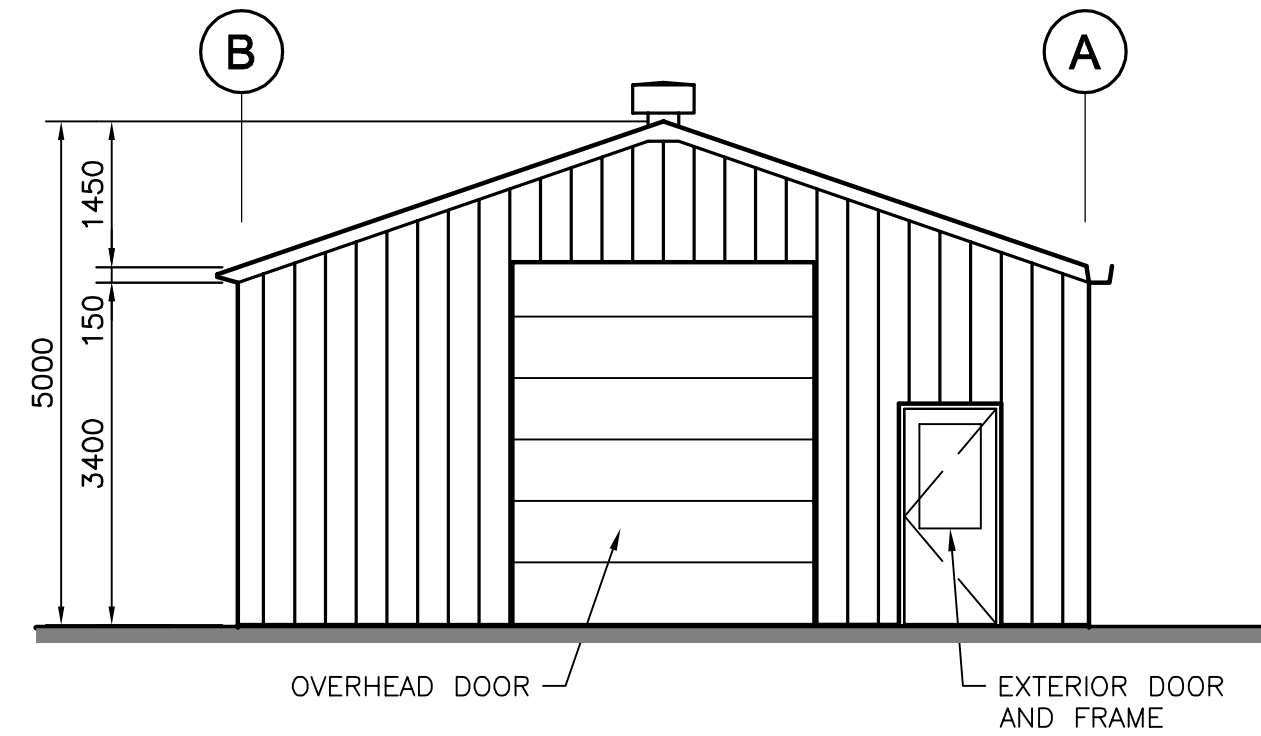


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SDK			
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ISSUED FOR CONSTRUCTION		07/29/20	
ISSUED FOR CLIENT REVIEW	GCM	06/22/20	

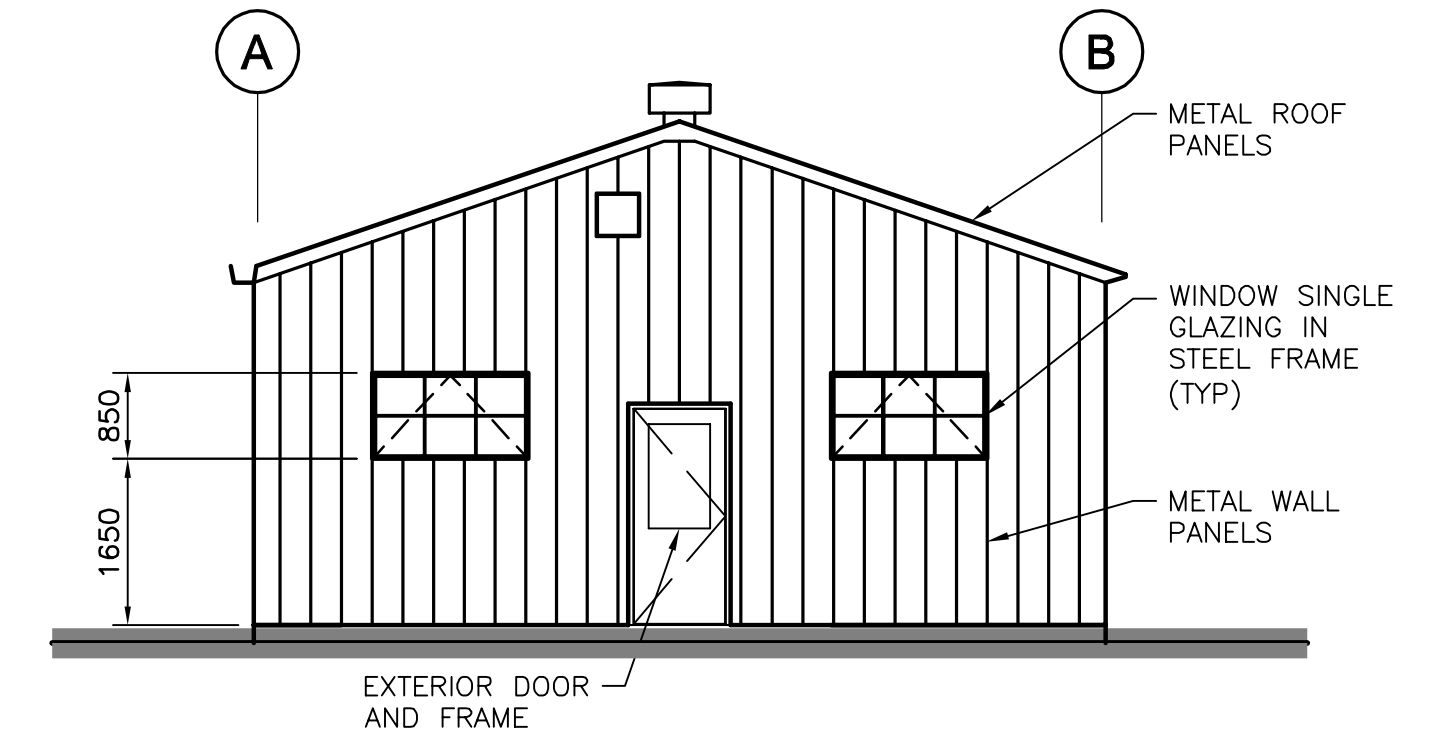
CANADIAN COAST GUARD BASE 401 KING STREET W, PRESCOTT, ON		PROJECT NO. 20-2403
EXISTING SITE PLAN		SHEET NO. G1



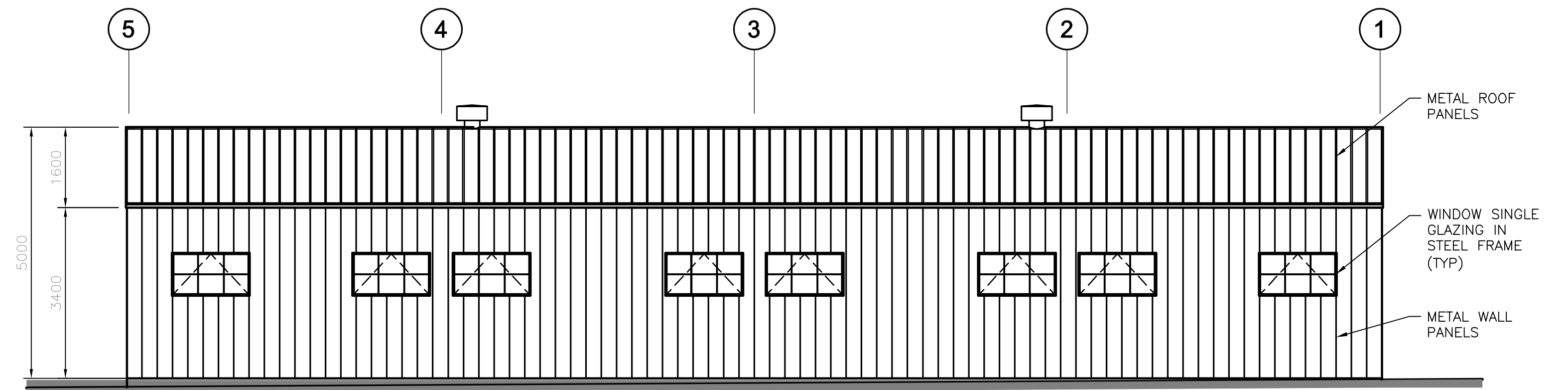
PLAN OF EXISTING BUILDING
1:75



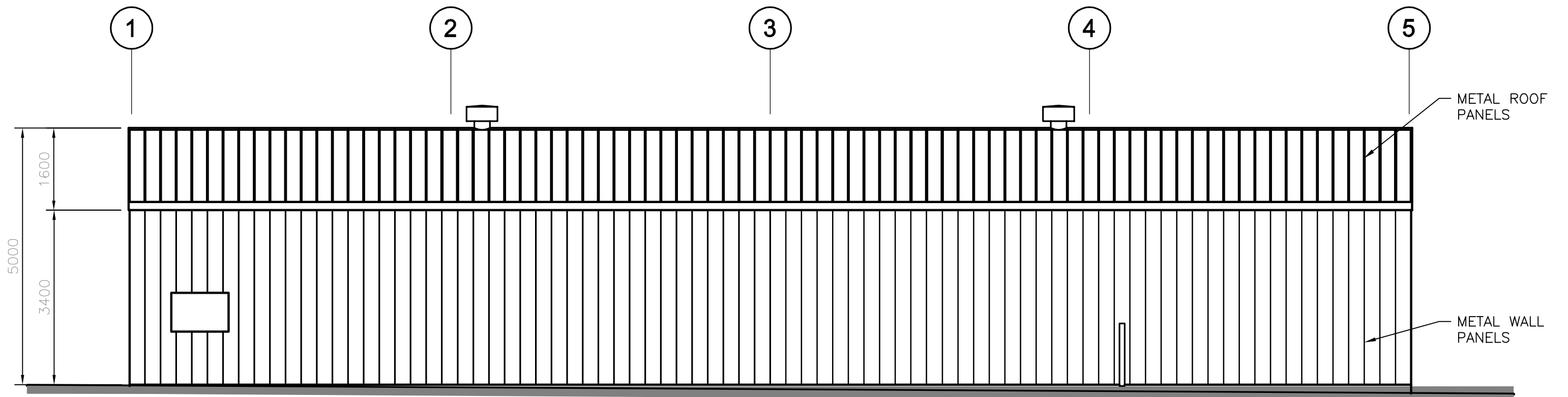
NORTH ELEVATION
1:75



SOUTH ELEVATION
1:75



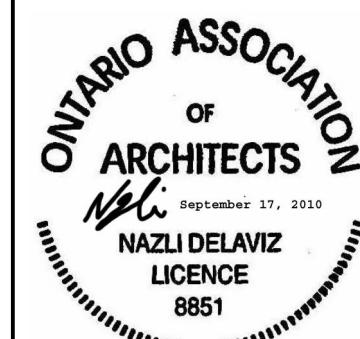
EAST ELEVATION
1:75



WEST ELEVATION
1:75

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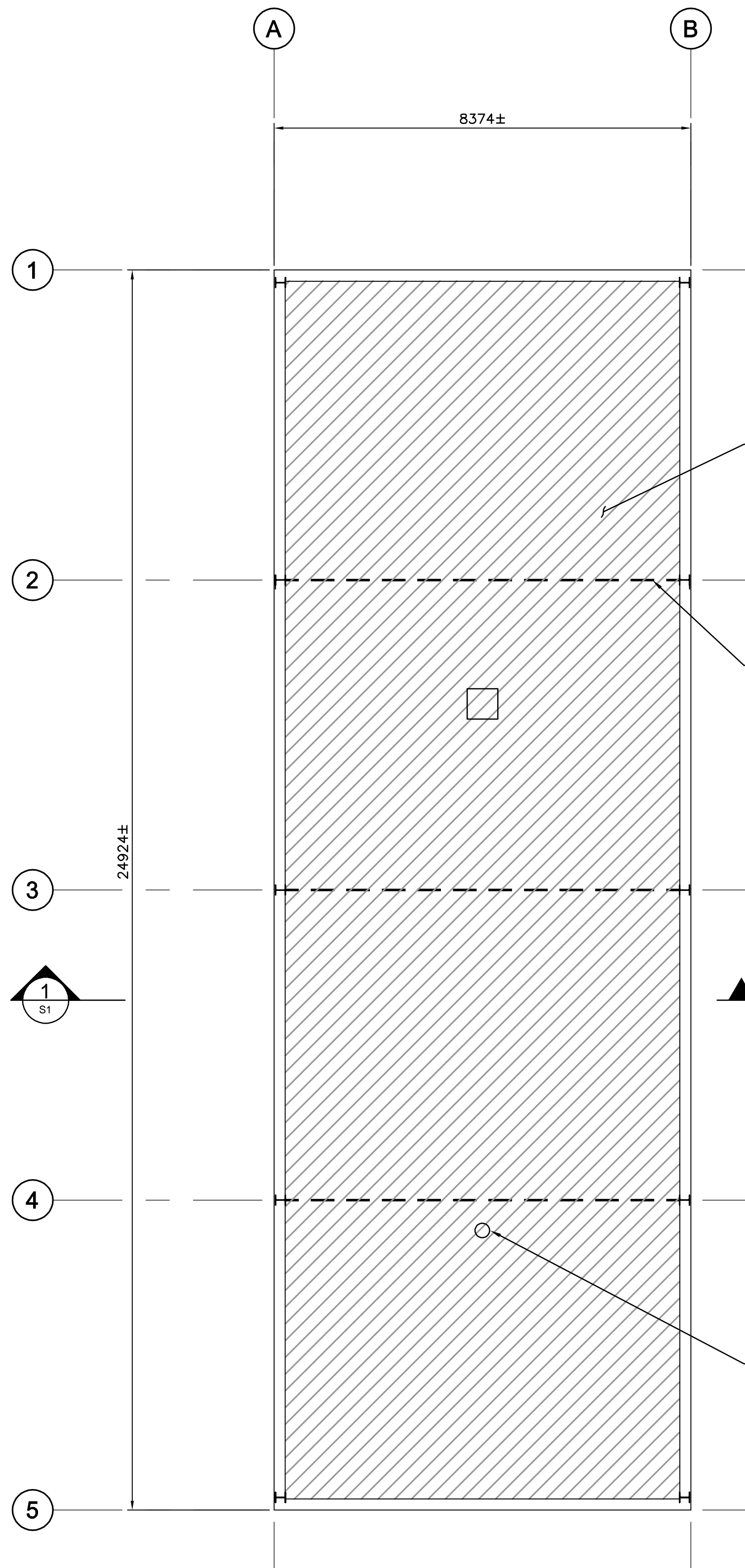


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 E-mail: london@dillon.ca

No.	ISSUED FOR	DATE	BY
2	ISSUED FOR CONSTRUCTION	07/29/20	ND
1	ISSUED FOR CLIENT REVIEW	06/22/20	ND

DESIGN	REVIEWED BY
ND	
DRAWN	CHECKED BY
PDR	
DATE	MAY 2020
SCALE	NOTED

CANADIAN COAST GUARD BASE
 401 KING STREET W, PRESCOTT, ON
 PROJECT NO. 20-2403
 RECONDITIONING OF BUILDING 'F'
 EXISTING BUILDING CONDITIONS
 FLOOR PLAN, ELEVATIONS
 SHEET NO. G2



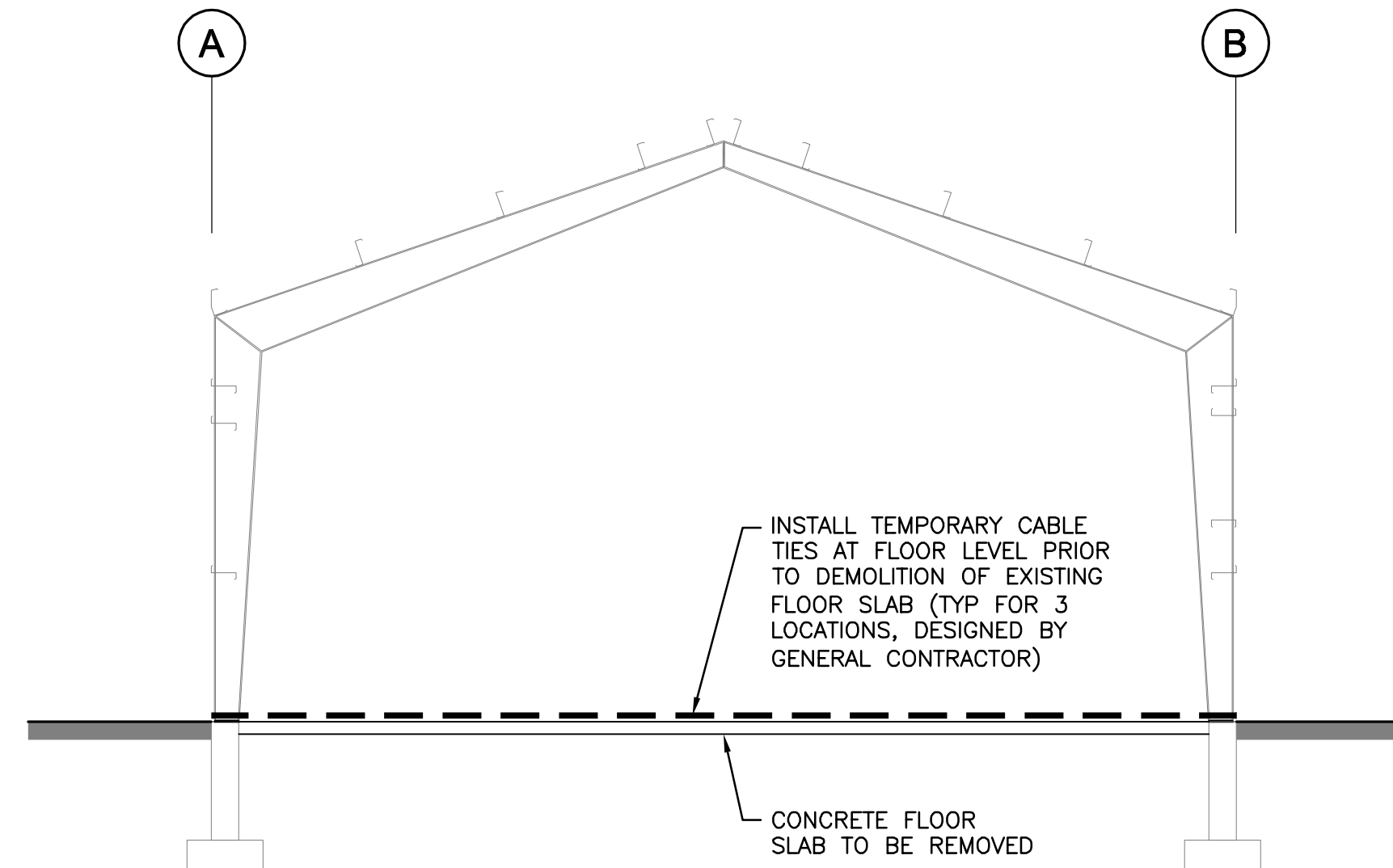
REMOVAL - SLAB PLAN

1:75

CONCRETE FLOOR SLAB TO BE REMOVED

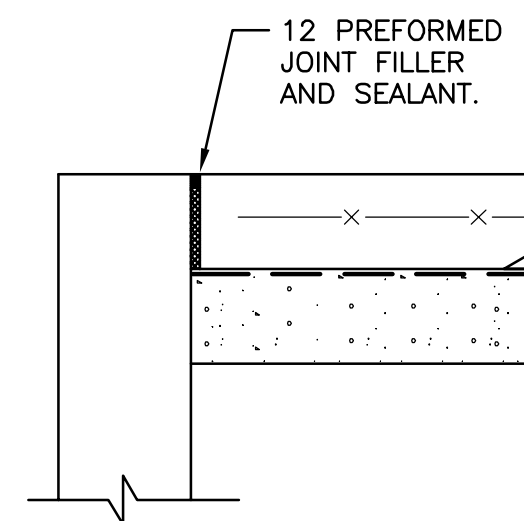
INSTALL TEMPORARY CABLE TIES AT FLOOR LEVEL PRIOR TO DEMOLITION OF EXISTING FLOOR SLAB. CABLES TO REMAIN IN PLACE UNTIL NEW CONCRETE FLOOR SLAB HAS REACHED DESIGN STRENGTH (TYP FOR 3 LOCATIONS, DESIGNED BY GENERAL CONTRACTOR)

FLOOR DRAINS TO BE REMOVED CLEANOUT UNDER FLOOR DRAIN LINES



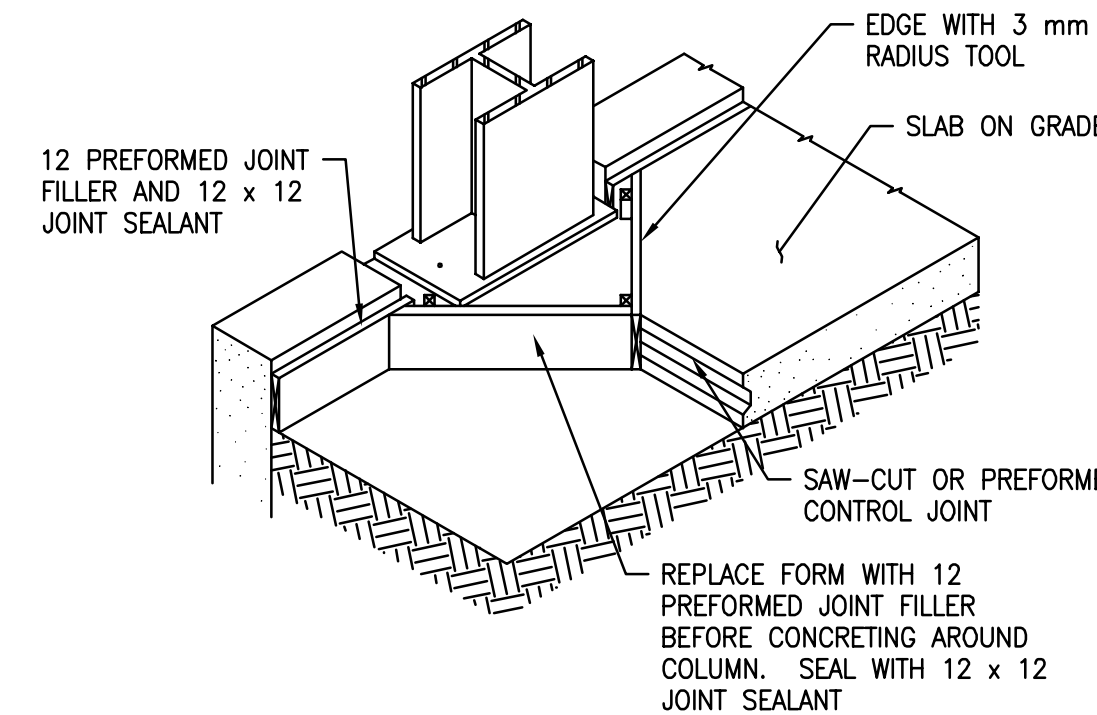
SECTION 1

1:50



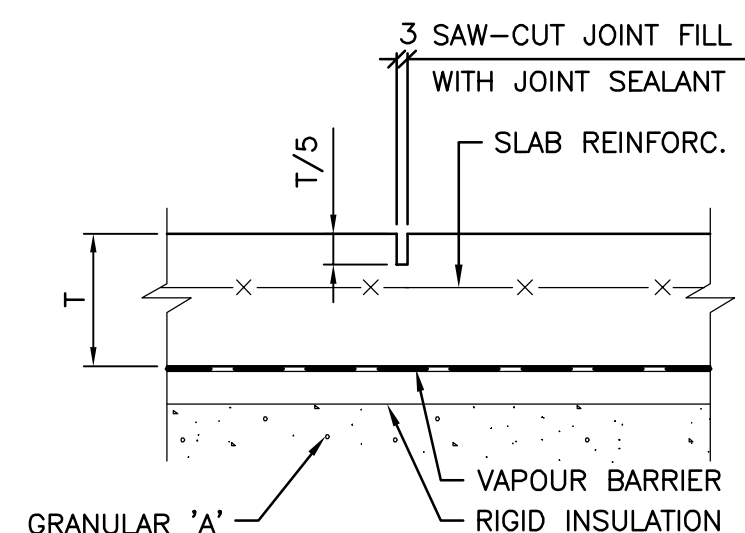
ISOLATION JOINT - SLAB AT WALL

SCALE: NOT TO SCALE



ISOLATION JOINT - EXTERIOR COLUMN

SCALE: NOT TO SCALE



CONTROL JOINTS IN SLAB ON GRADE

SCALE: NOT TO SCALE

GENERAL NOTES

GENERAL

- ALL WORK SHALL CONFORM TO THE 2015 NATIONAL BUILDING CODE OF CANADA.
- COMPLETE ALL WORK IN ACCORDANCE WITH ONTARIO REGULATION O.REG. 406/19, ON-SITE AND EXCESS SOIL MANAGEMENT.
- ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE LEGISLATION INCLUDING BUT NOT LIMITED TO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS.
- THE CONTRACTOR SHALL AS PART OF HIS WORK CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH CONSTRUCTION.
- SAFEGUARD AND PROTECT ALL EXISTING STRUCTURES, SERVICES AND UTILITIES WHICH MAY BE AFFECTED BY THE WORK OF THIS CONTRACT.
- CONTRACTOR TO DESIGN, SUPPLY AND INSTALL TEMPORARY CABLE TIES BETWEEN EXTERIOR COLUMNS AS SHOWN ON DRAWINGS TO RESIST ALL ANTICIPATED DEAD AND LIVE LOADS. SUBMIT SHOP DRAWINGS FOR TEMPORARY CABLE TIES STAMPED BY A PROFESSIONAL ENGINEER, LICENSED IN THE PROVINCE OF ONTARIO. TIES TO REMAIN IN PLACE UNTIL NEW CONCRETE SLAB HAS REACHED DESIGN STRENGTH.

CONCRETE

- DO CONCRETE WORK IN ACCORDANCE WITH CSA A23.1-14 AND TESTING TO CSA A23.2-14
- CONCRETE SHALL HAVE THE FOLLOWING PROPERTIES:
 - COMPRESSIVE STRENGTH (AT 28 DAYS): 35 MPa
 - CLASS OF CONCRETE: C1
 - MAXIMUM COARSE AGGREGATE: 20 mm
 - MAXIMUM W/C RATIO: 0.40
 - SLUMP: 60-90 MM
 - MAXIMUM SUPPLEMENTARY CEMENT SUBSTITUTION: 25%
- PLACE ALL CONCRETE IN THE DRY.
- FINISH ALL NON-FORMED CONCRETE IN ACCORDANCE WITH CSA A23.1-14
- CONCRETE FLOOR SLAB SHALL BE MECHANICALLY FLOATED AND STEEL TROWELLED TO A DENSE NON-SLIP FINISH.
- INSTALL POLYETHYLENE SHEET VAPOUR BARRIER UNDER CONCRETE SLAB-ON-GRADE. LAP 300mm AT JOINTS AND SEAL.
- INSPECTION AND TESTING OF CONCRETE SHALL BE IN ACCORDANCE WITH CSA A23.1-14 AND A23.2-14. NUMBER AND FREQUENCY OF CYLINDER TESTS SHALL BE AS FOLLOWS: TWO 28-DAY AND ONE 7 -DAY TEST SPECIMEN FOR EACH CLASS OF CONCRETE CAST DAILY.
- CONTRACTOR TO SUBMIT CONCRETE MIX DESIGN AND TEST RESULTS FOR EACH CLASS OF CONCRETE PRIOR TO PLACING ANY CONCRETE.
- CLIMATIC DATA (PRESCOTT, ONTARIO):
 - SNOW:
 - $S_s = 2.2$ kPa
 - $S_r = 0.4$ kPa
 - WIND:
 - $q_{10} = 0.34$ kPa
 - $q_{50} = 0.44$ kPa

REINFORCEMENT

- DO REINFORCEMENT WORK IN ACCORDANCE WITH CSA A23.1-14.
- REINFORCING STEEL SHALL CONFORM TO CAN/CSA G30.18-09. GRADE 400 R OR W.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064/A1064M-18a. PROVIDE IN FLAT SHEETS ONLY.
- ALL REINFORCEMENT TO BE SUITABLY SUPPORTED ON CHAIRS TO MAINTAIN DESIRED CONCRETE COVER IN ACCORDANCE WITH CSA A23.1-14.
- DOWELING REBAR ADHESIVE: HILTI HIT HY200 REBAR ADHESIVE AS MANUFACTURED BY HILTI CANADA LIMITED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- COVER TO REINFORCEMENT:
 - CAST AGAINST EARTH: 75 mm
 - ALL OTHER LOCATIONS 50 mm
- REINFORCING STEEL LAP LENGTHS:
 - 15M BARS: 700mm
 - WELDED WIRE FABRIC: 300 mm

FILENAME: C:\PW\WORKING DIRECTORIES\PROJECTS\2020\SSHW\DWG\202403_09_STRUCT_CON.DWG PLOTTED BY: HOUSTON, STEPHEN PLOT DATE: 2020-09-18 @ 9:42:53 AM PLOT SCALE: 1:25.4 PLOT STATE: DILLON-STANDARD.CTB

Conditions of Use

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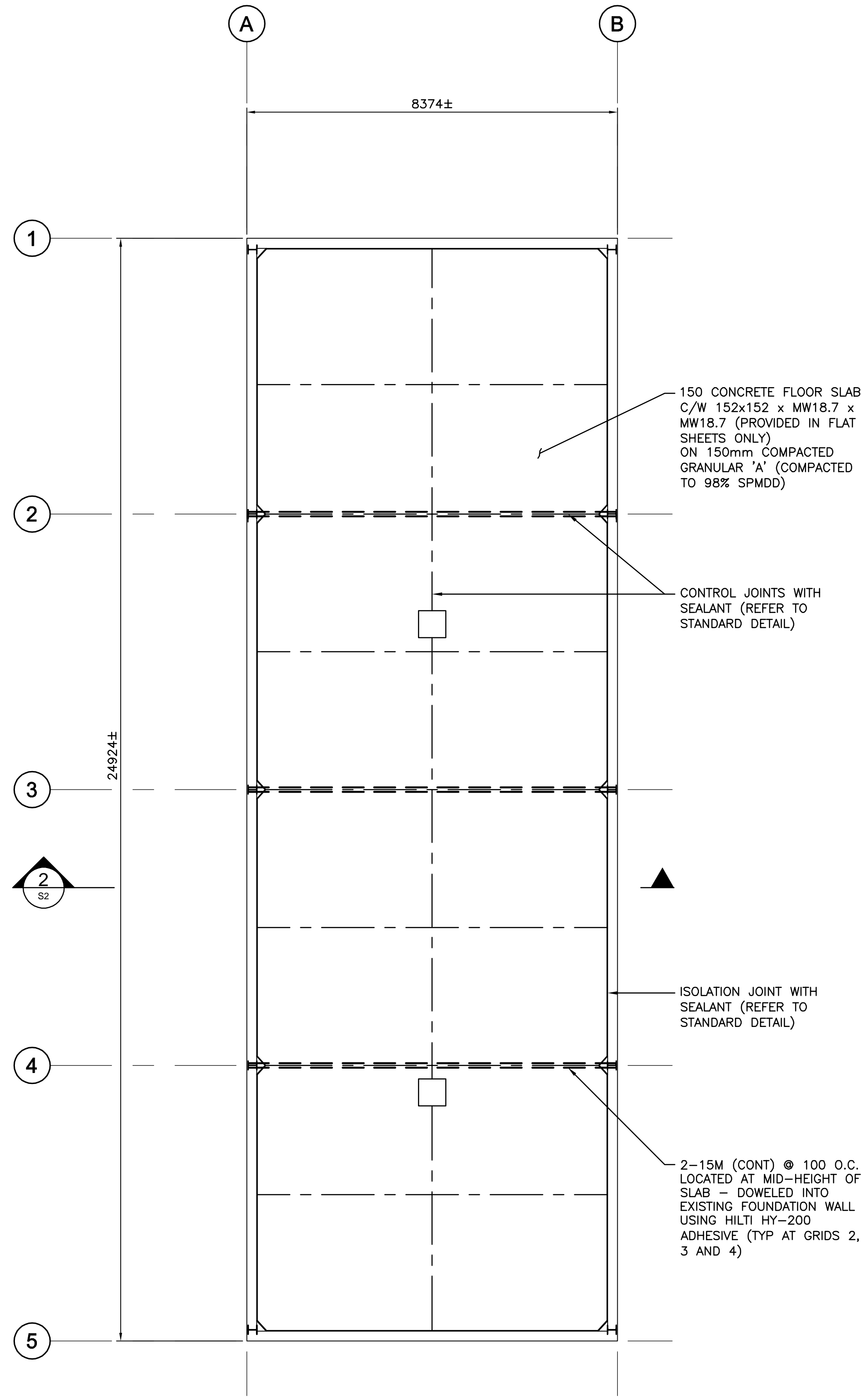
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2	ISSUED FOR CONSTRUCTION	07/29/20	GCM

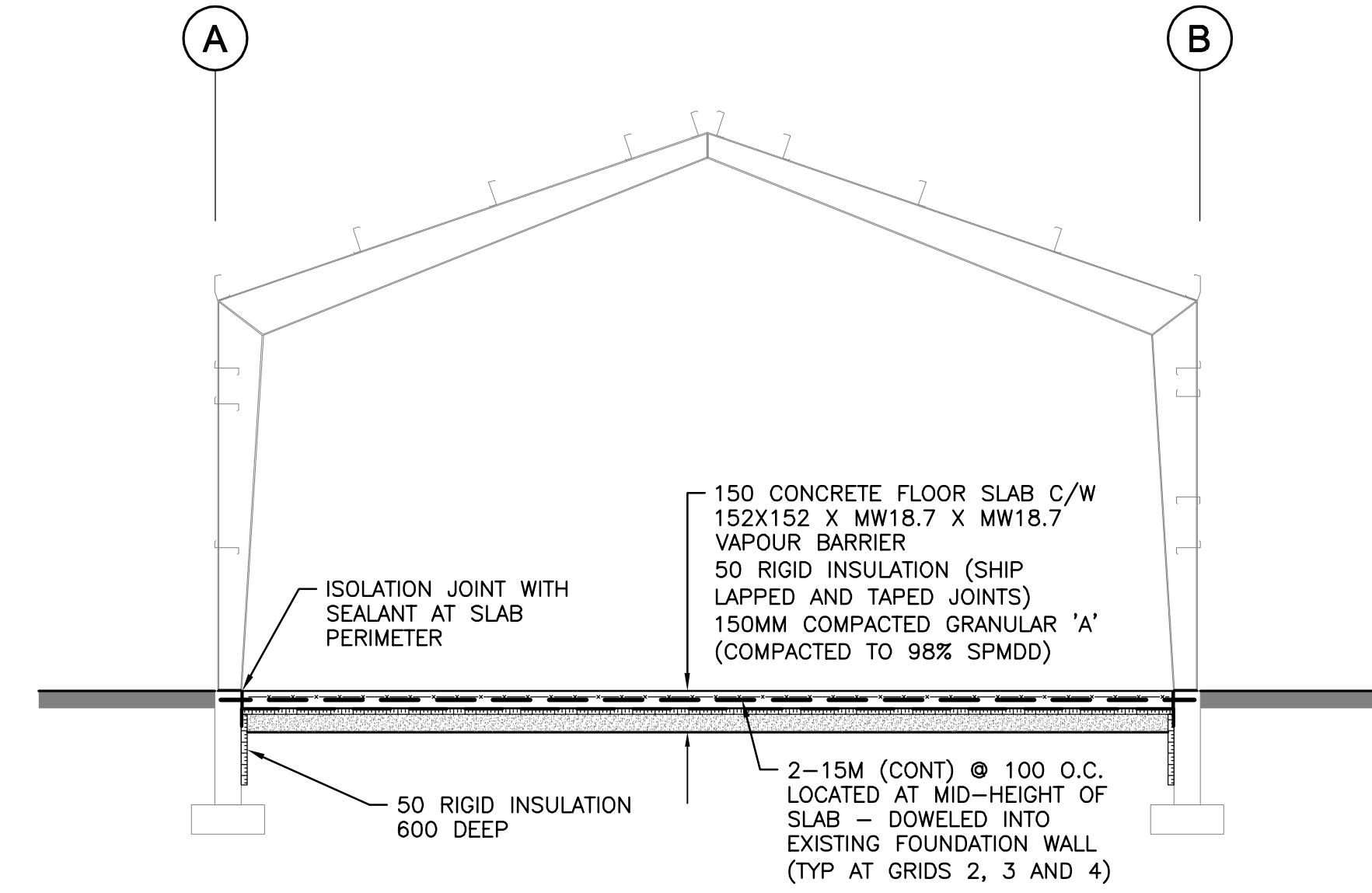
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GCM	
DRAWN	CHECKED BY
PDR	
DATE	MAY 2020
SCALE	NOTED

CANADIAN COAST GUARD BASE 401 KING STREET W, PRESCOTT, ON		PROJECT NO. 20-2403
RECONDITIONING OF BUILDING 'F' GENERAL NOTES, DETAILS REMOVAL - SLAB PLAN, SECTION		SHEET NO. S1



NEW CONSTRUCTION - SLAB PLAN

1:75

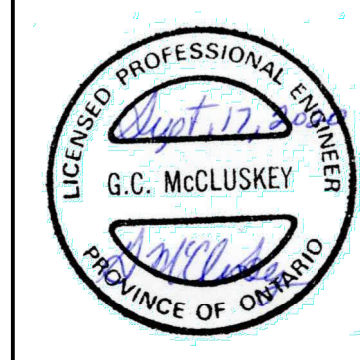


SECTION 2

1:50

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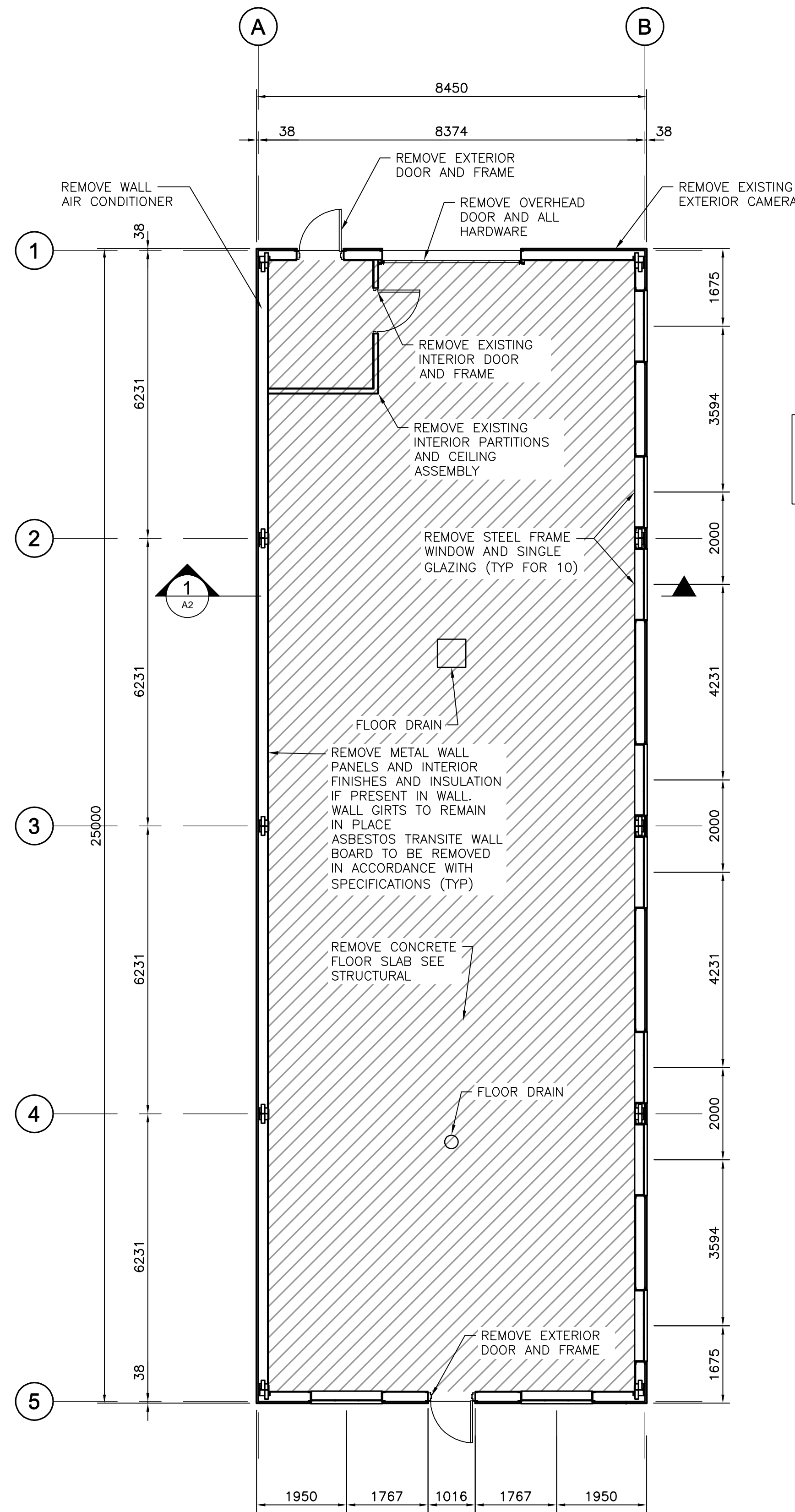
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DRAWN	PDR	CHECKED BY	
DATE	MAY 2020		
SCALE	NOTED		
No.	ISSUED FOR	DATE	BY
2	ISSUED FOR CONSTRUCTION	07/29/20	GCM
1	ISSUED FOR CLIENT REVIEW	06/22/20	GCM

CANADIAN COAST GUARD BASE
 401 KING STREET W, PRESCOTT, ON

PROJECT NO.
20-2403

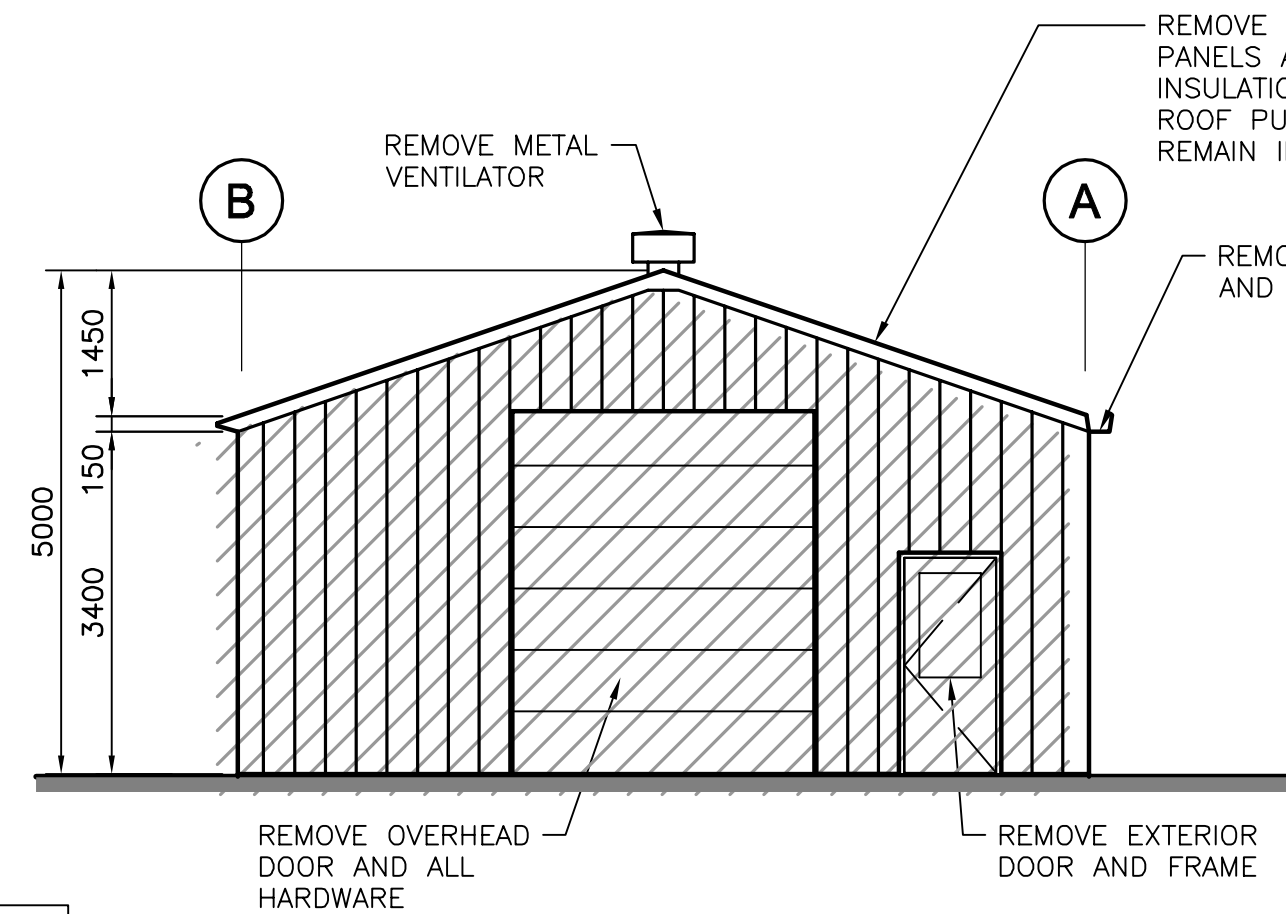
RECONDITIONING OF BUILDING 'F'
 NEW CONSTRUCTION - SLAB PLAN, SECTION

SHEET NO.
S2

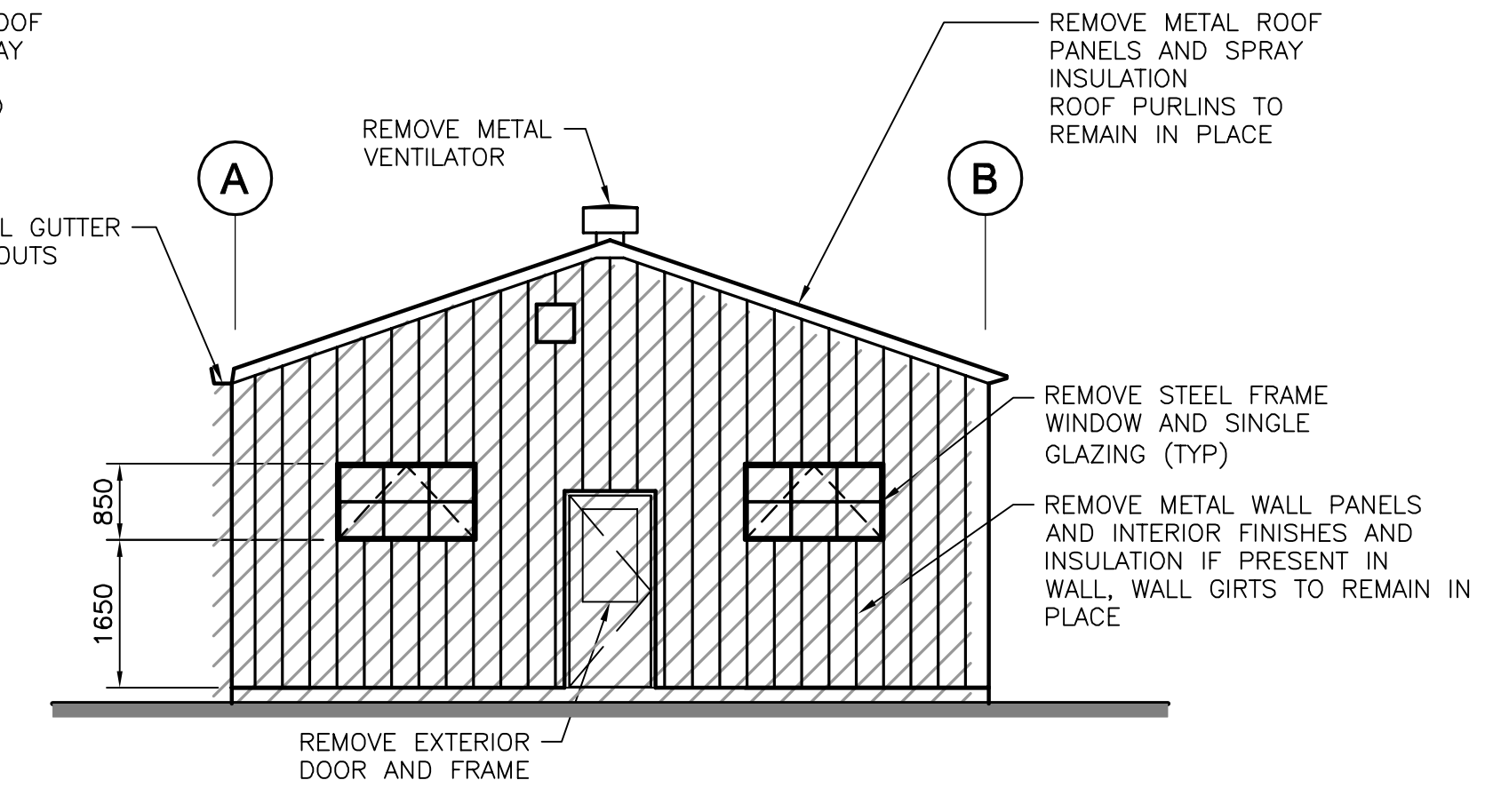


PLAN OF EXISTING BUILDING
1:75

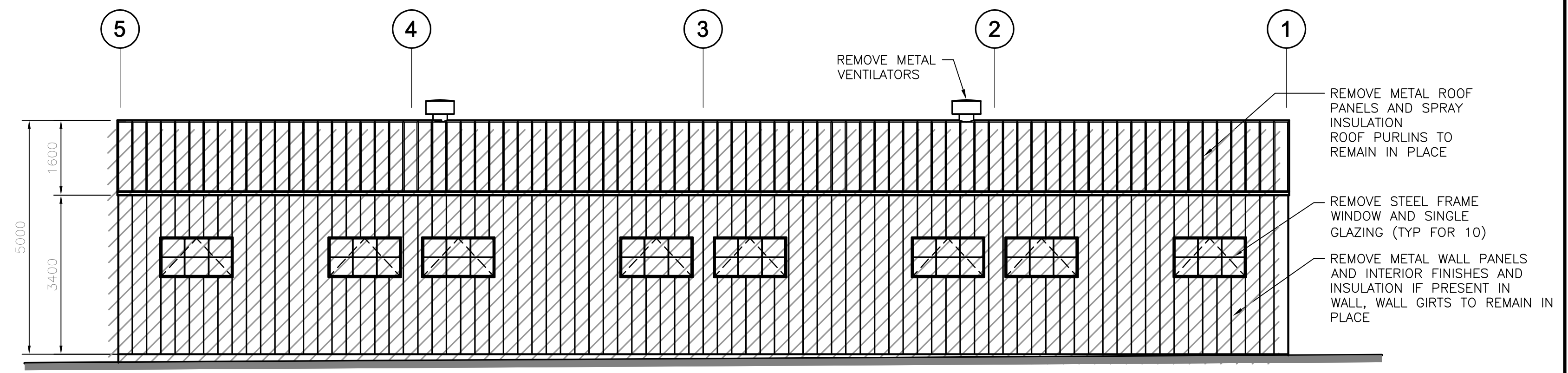
NOTE:
 • ASBESTOS TRANSITE WALL BOARD TO BE REMOVED IN ACCORDANCE WITH SPECIFICATIONS
 • LEAD CONTAINING PAINTS TO BE REMOVED IN ACCORDANCE WITH SPECIFICATIONS



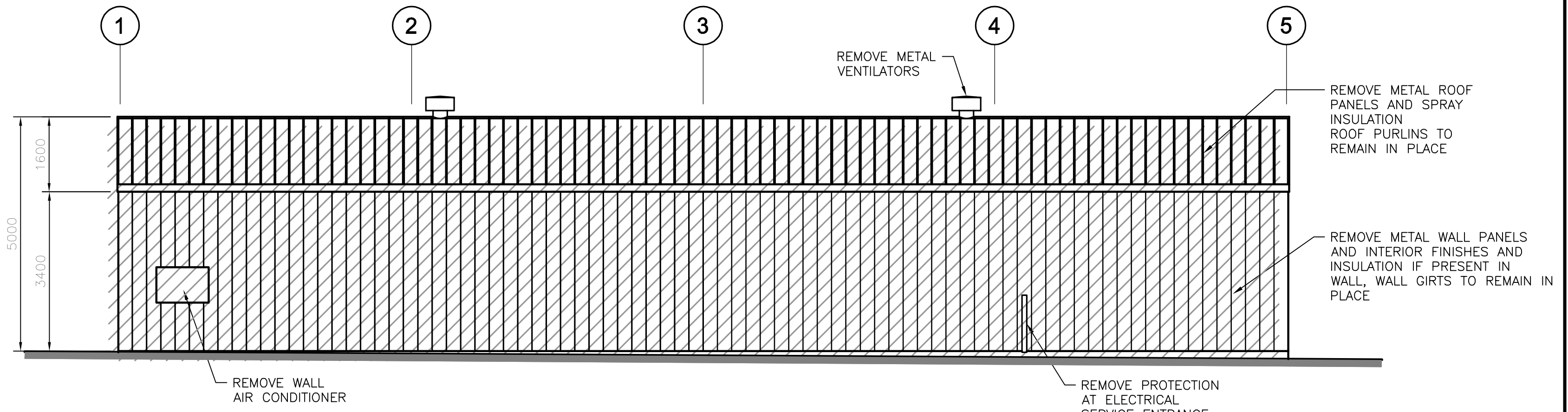
NORTH ELEVATION
1:75



SOUTH ELEVATION
1:75



EAST ELEVATION
1:75



WEST ELEVATION
1:75

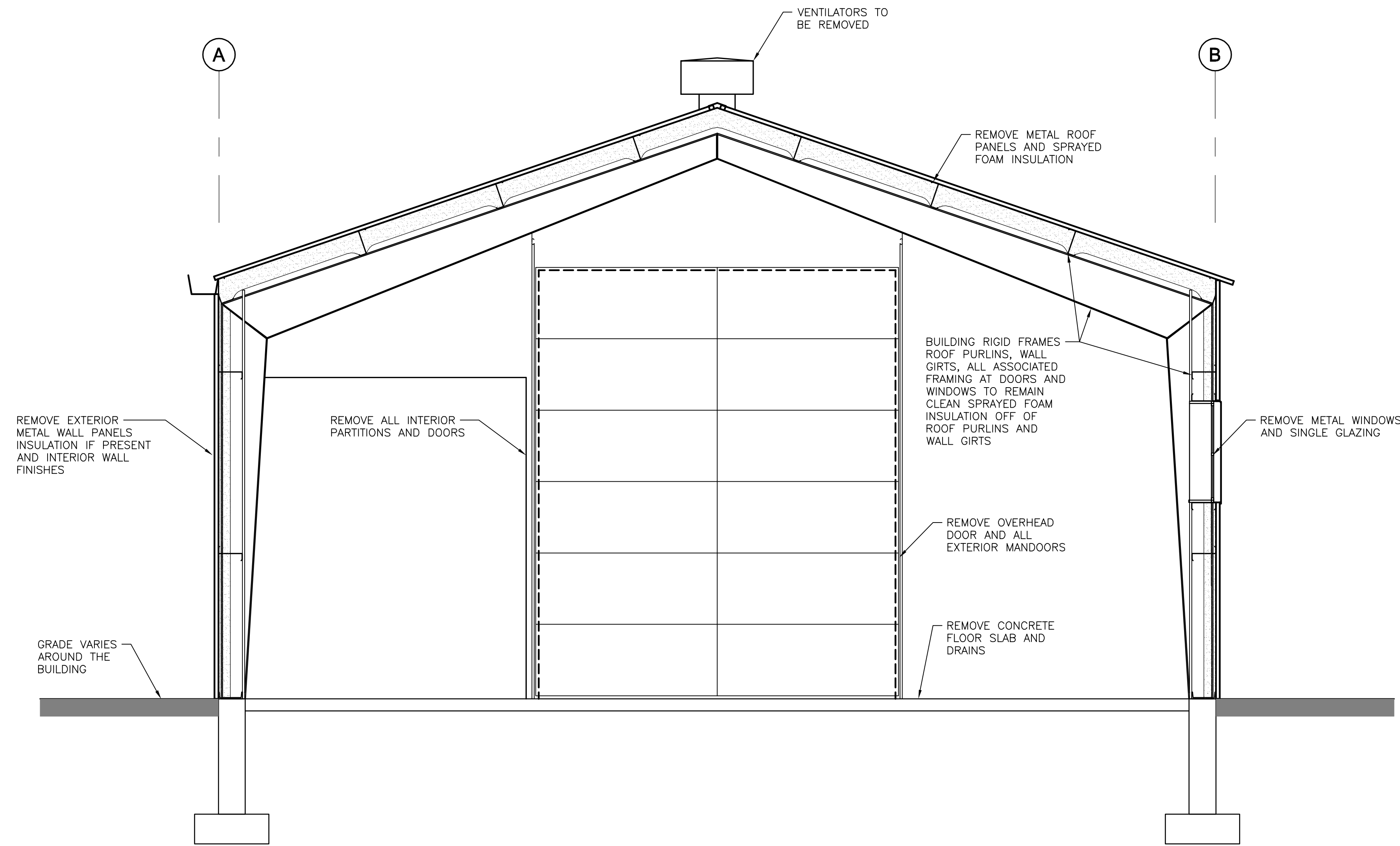
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DESIGN	REVIEWED BY	DATE	BY
ND			
DRAWN	CHECKED BY	DATE	BY
PDR		MAY 2020	
ISSUED FOR CONSTRUCTION	DATE	BY	SCALE
2	07/29/20	ND	NOTED
ISSUED FOR CLIENT REVIEW	DATE	BY	SCALE
1	06/22/20	ND	NOTED
ISSUED FOR	DATE	BY	SCALE

CANADIAN COAST GUARD BASE
 401 KING STREET W, PRESCOTT, ON
 PROJECT NO. 20-2403
 SHEET NO. A1
**RECONDITIONING OF BUILDING 'F'
 REMOVALS FLOOR PLAN, ELEVATIONS**



1 CROSS SECTION
A1 1:25

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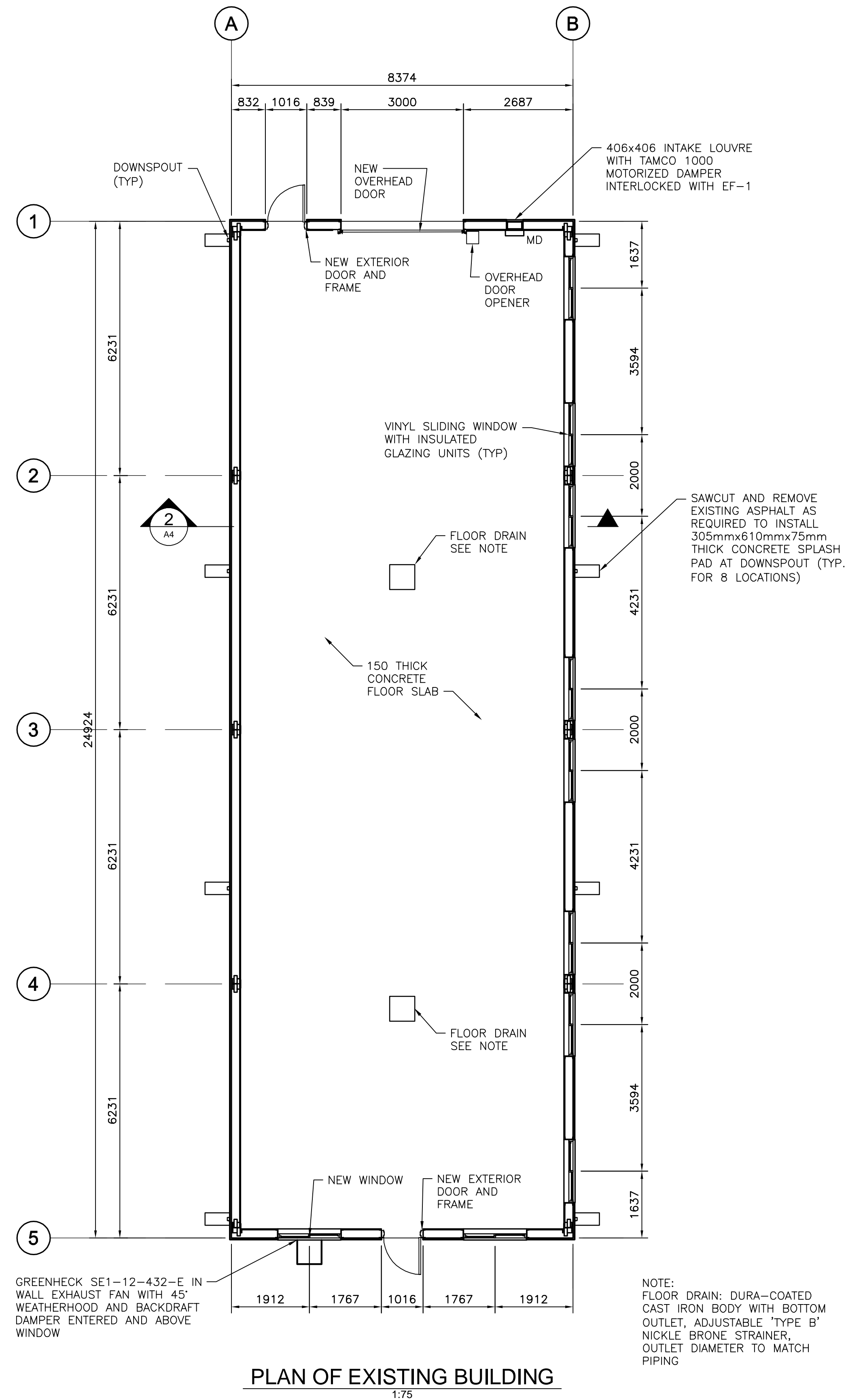
No.	ISSUED FOR	DATE	BY
2	ISSUED FOR CONSTRUCTION	07/29/20	ND
1	ISSUED FOR CLIENT REVIEW	06/22/20	ND

DESIGN	ND	REVIEWED BY	
DRAWN	PDR	CHECKED BY	
DATE	MAY 2020		
SCALE	NOTED		

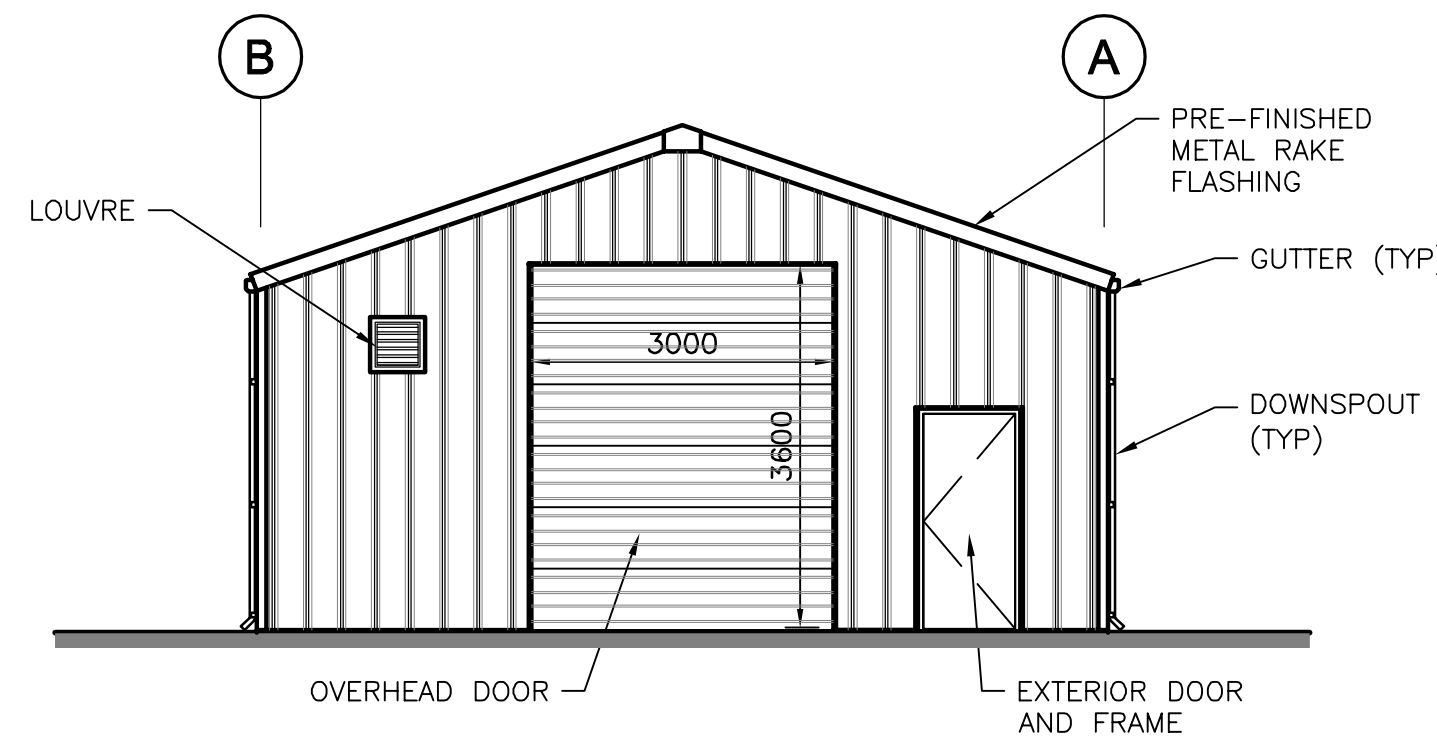
CANADIAN COAST GUARD BASE
 401 KING STREET W, PRESCOTT, ON

RECONDITIONING OF BUILDING 'F'
 REMOVALS BUILDING CROSS SECTION

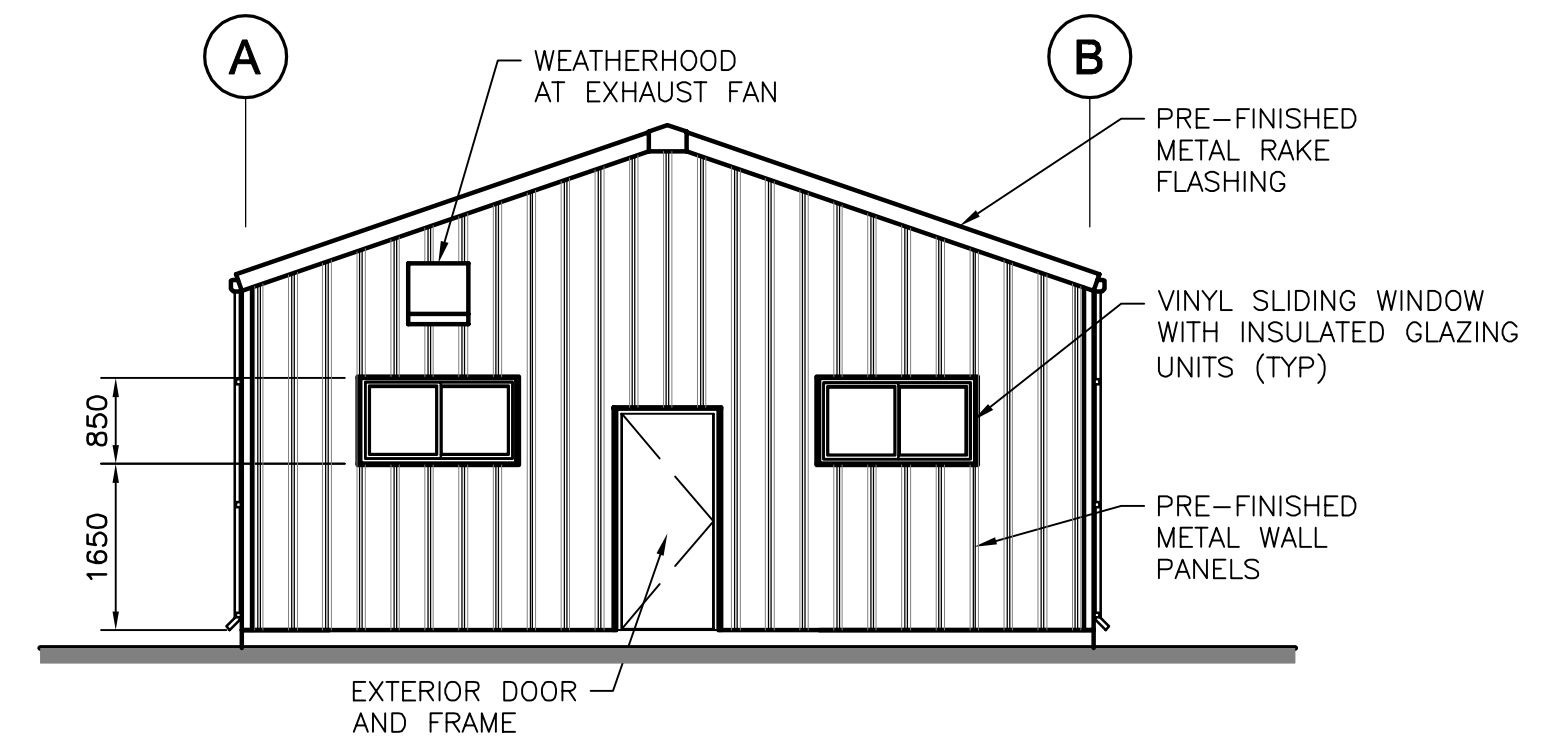
PROJECT NO.
20-2403
 SHEET NO.
A2



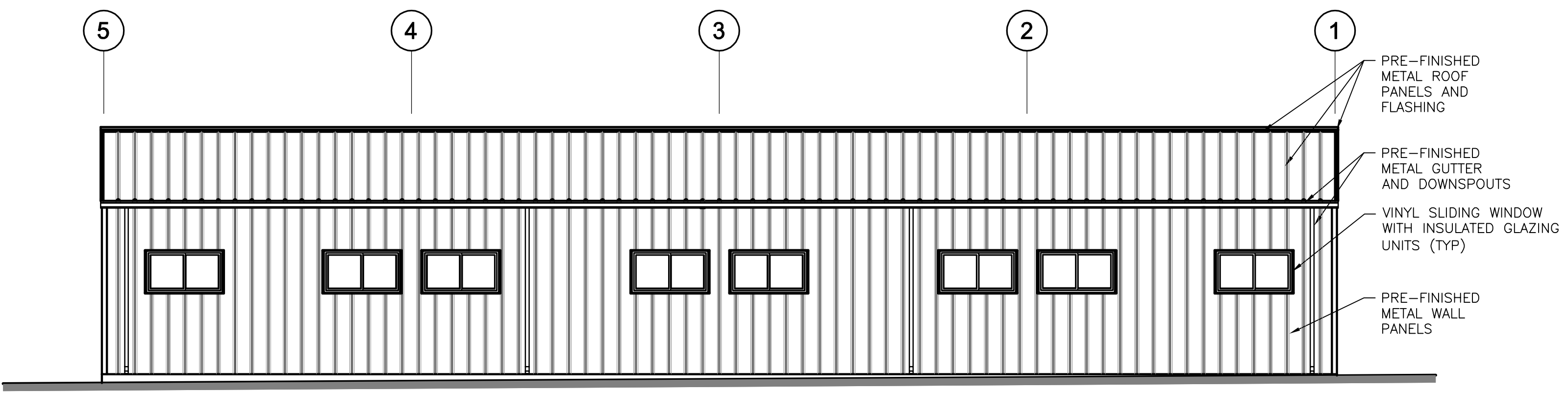
PLAN OF EXISTING BUILDING
1:75



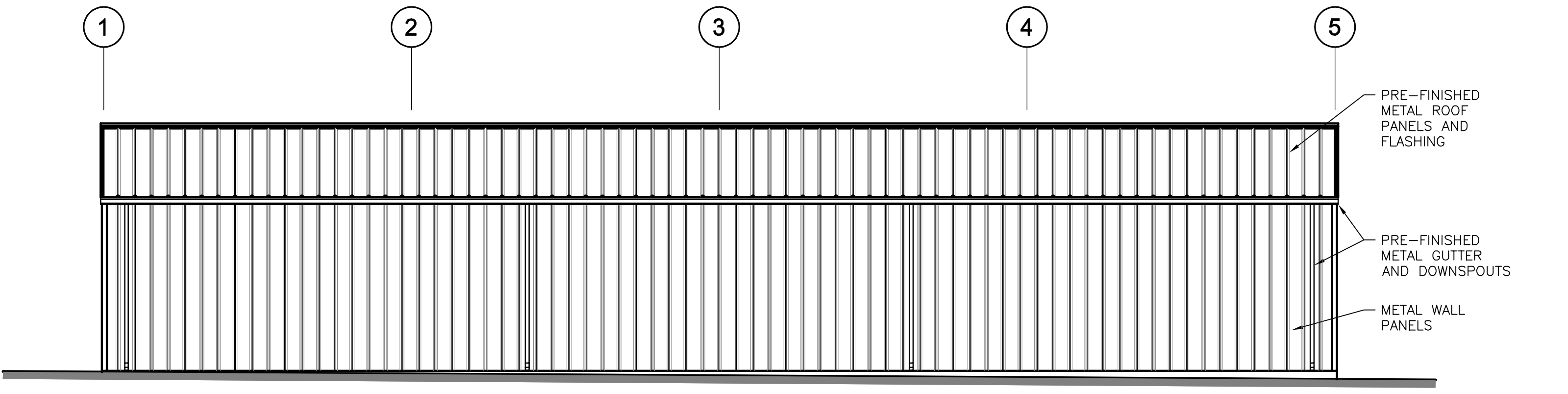
NORTH ELEVATION
1:75



SOUTH ELEVATION
1:75



EAST ELEVATION
1:75



WEST ELEVATION
1:75

SAWCUT AND REMOVE EXISTING ASPHALT AS REQUIRED TO INSTALL 305mmx610mmx75mm THICK CONCRETE SPLASH PAD AT DOWNSPOUT (TYP. FOR 8 LOCATIONS)

GREENHECK SE1-12-432-E IN WALL EXHAUST FAN WITH 45° WEATHERHOOD AND BACKDRAFT DAMPER ENTERED AND ABOVE WINDOW

NOTE: FLOOR DRAIN: DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, ADJUSTABLE 'TYPE B' NICKLE BRONE STRAINER, OUTLET DIAMETER TO MATCH PIPING

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DATE	MAY 2020		
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No.	ISSUED FOR	DATE	BY

CANADIAN COAST GUARD BASE
401 KING STREET W, PRESCOTT, ON
**RECONDITIONING OF BUILDING 'F'
NEW CONSTRUCTION FLOOR PLAN
ELEVATIONS**

PROJECT NO.
20-2403
SHEET NO.
A3

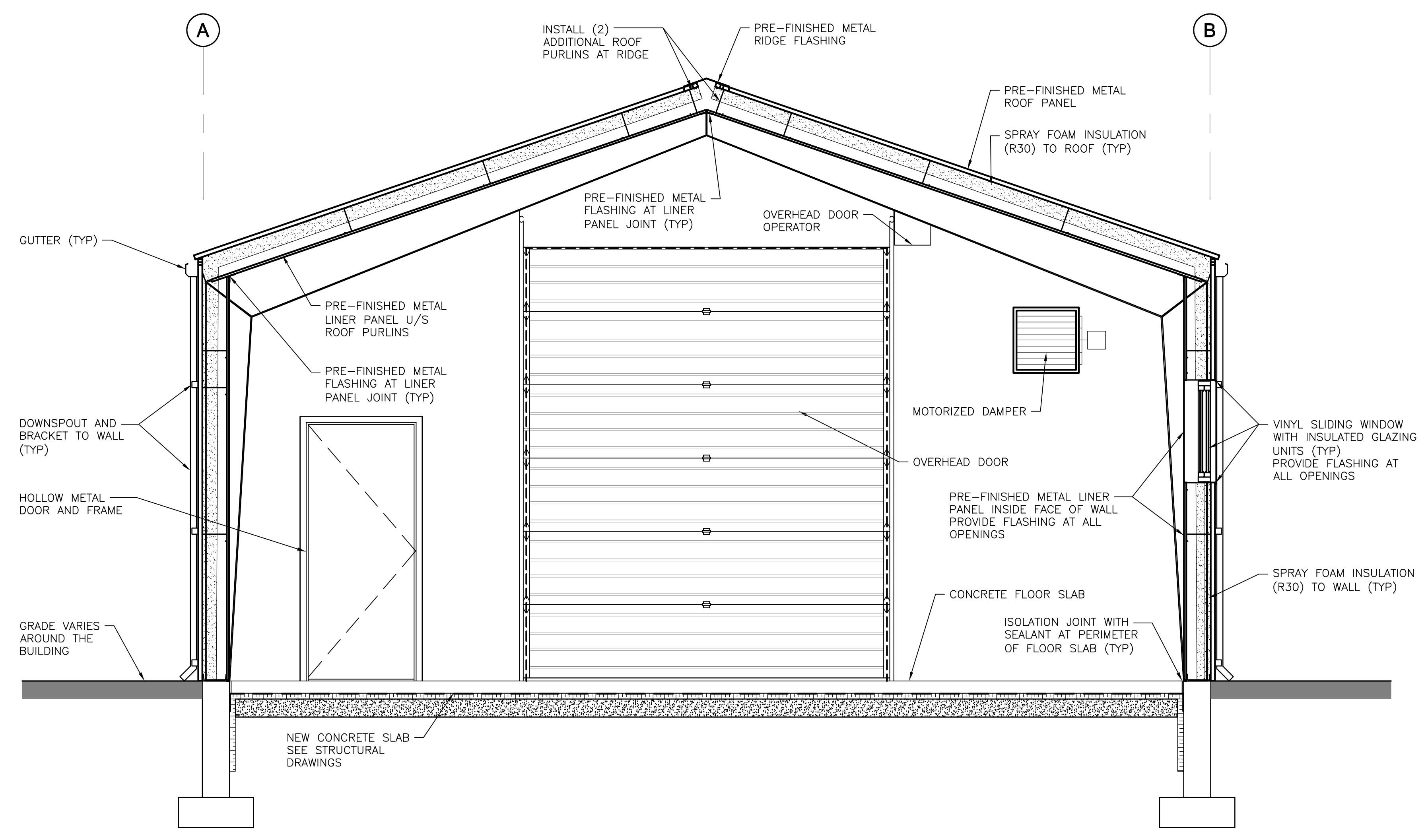
Name of Practice:
 Dillon Building Design Ltd.
 Engineers and Architects
 1400-130 Dufferin Avenue
 London, Ontario, Canada N6A 5R2

Name of Project:
 RECONDITIONING OF BUILDING 'F'

Location:
 CANADIAN COAST GUARD BASE
 401 KING STREET W, PRESCOTT, ON

Item	National Building Code		Building Code Reference	
	Data Matrix Parts 3 or 9		References are to Division B unless noted [A] for Division A or [C] for Division C.	
1	Project Description:	<input type="checkbox"/> New <input type="checkbox"/> Addition <input type="checkbox"/> Change of Use	<input type="checkbox"/> Part 11 11.1 to 11.4	<input checked="" type="checkbox"/> Part 9 1.1.2. [A] & 9.10.1.3.
2	Major Occupancy(s)	Storage garage - (Low Hazard Industrial) Group F-Division 3		9.10.2.
3	Building Area (m ²)	Existing 211.25 m ² New 0 Total 211.25 m ²		1.4.1.2. [A]
4	Gross Area	Existing 211.25 m ² New 0 Total 211.25 m ²		1.4.1.2. [A]
5	Number of Storeys	Above grade 1 Below grade 0		1.4.1.2[A] & 9.10.4
6	Number of Streets/Fire Fighter Access	1		9.10.20.
7	Building Classification	9.10.2. - Group F, Division 3		9.10.2.
8	Sprinkler System Proposed	<input type="checkbox"/> entire building <input type="checkbox"/> selected compartments <input type="checkbox"/> selected floor areas <input type="checkbox"/> basement <input type="checkbox"/> in lieu of roof rating <input checked="" type="checkbox"/> not required		9.10.8.2. INDEX
9	Standpipe required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		N/A
10	Fire Alarm required	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		9.10.18.
11	Water Service/Supply is Adequate	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		N/A
12	High Building	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		N/A
13	Construction Restrictions	<input checked="" type="checkbox"/> Combustible permitted Actual Construction <input type="checkbox"/> Combustible <input checked="" type="checkbox"/> Non-combustible <input type="checkbox"/> Both	<input type="checkbox"/> Non-combustible required <input type="checkbox"/> Both	9.10.6.
14	Mezzanine(s) Area m ²	N/A		9.10.4.1.
15	Occupant load based on	<input type="checkbox"/> m ² /person Basement: Occupancy 0 Load persons 1 st Floor: Occupancy 0 Load persons 2 nd Floor: Occupancy 0 Load persons 3 rd Floor: Occupancy 0 Load persons	<input checked="" type="checkbox"/> design of building	9.9.1.3.
16	Barrier-free Design	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No (Explain)		9.5.2.
17	Hazardous Substances	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		9.10.1.3.(4)

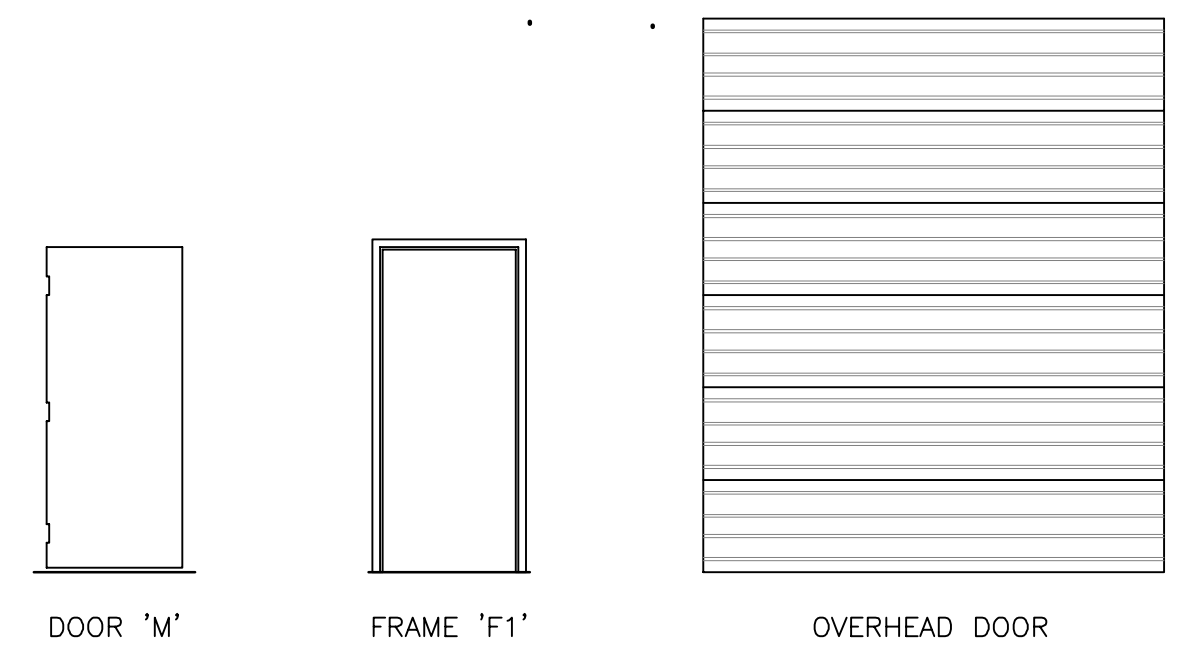
Building Code Data Matrix, Part 9
 © Ontario Association of Architects July, 2020



2 CROSS SECTION
 A3 1:25

DOOR AND FRAME SCHEDULE													
NUMBER	DOOR							FRAME				REMARKS	HDW PKG
	TYPE	WIDTH	HEIGHT	THICK	MAT	FINISH	GLAZING	TYPE	MAT	FINISH	RATING		
D1	M	914	2134	45	HM	PAINT		F1	HM	PAINT		INSULATED DOOR, THERMALLY BROKEN FRAME	
D6	OH	3000	3600		STEEL	PAINT						INSULATED DOOR WITH OPERATOR AND CONTROLS	

DOOR HARDWARE:
 3 NRP BUTT HINGES
 1 CLOSER
 1 THRESHOLD
 1 WEATHERSTRIPPING
 1 PANIC SET
 1 DEAD BOLT



DOOR AND FRAME ELEVATIONS
 1:50

Conditions of Use
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DESIGN	REVIEWED BY	DATE
ND		MAY 2020
DRAWN	CHECKED BY	DATE
PDR		
ISSUED FOR CONSTRUCTION	DATE	BY
2	07/29/20	ND
ISSUED FOR CLIENT REVIEW	DATE	BY
1	06/22/20	ND
SCALE	NOTED	
	NOTED	

CANADIAN COAST GUARD BASE
 401 KING STREET W, PRESCOTT, ON

RECONDITIONING OF BUILDING 'F'
 BUILDING CROSS SECTION, OBC MATRIX
 DOOR AND FRAME SCHEDULE, ELEVATIONS

PROJECT NO.
20-2403

SHEET NO.
A4

GENERAL NOTES

GENERAL

1. ALL WORK SHALL CONFORM TO THE 2015 NATIONAL BUILDING CODE OF CANADA.
2. ALL WORK TO BE PERFORMED IN ACCORDANCE WITH APPLICABLE LEGISLATION INCLUDING BUT NOT LIMITED TO OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS.
3. THE CONTRACTOR SHALL AS PART OF HIS WORK CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS AND REPORT ANY DISCREPANCIES TO THE CONTRACT ADMINISTRATOR BEFORE PROCEEDING WITH CONSTRUCTION.
4. SAFEGUARD AND PROTECT ALL EXISTING STRUCTURES, SERVICES AND UTILITIES WHICH MAY BE AFFECTED BY THE WORK OF THIS CONTRACT.
5. CONTRACTOR TO SUPPLY SHOP DRAWINGS FOR ALL ITEMS NOTED IN SPECIFICATIONS AND ALL ITEMS DESIGNED BY THE CONTRACTOR.

ASBESTOS CONTAINING MATERIAL

1. THE MANAGEMENT OF ASBESTOS CONTAINING MATERIAL IS GOVERNED UNDER ONTARIO REGULATION (O.REG.) 278/05 DESIGNATED SUBSTANCE –ASBESTOS ON CONSTRUCTION PROJECTS AND IN BUILDINGS AND REPAIR OPERATIONS. IF ASBESTOS CONTAINING MATERIAL IS KNOWN OR SUSPECTED TO BE PRESENT, THE MATERIAL SHOULD BE MANAGED AND REMOVED IN ACCORDANCE WITH O.REG. 278/05, PRIOR TO BEING DISTURBED DURING REPAIR, RENOVATION OR DEMOLITION ACTIVITIES.
2. ALL CONFIRMED ACMs SHOULD BE MANAGED AND/OR DISPOSED OF IN ACCORDANCE WITH O. REG 490/09, O.REG 278/05 AND O.REG 347. ALL ASBESTOS ABATEMENT ACTIVITIES SHOULD BE CONDUCTED BY A QUALIFIED ASBESTOS ABATEMENT CONTRACTOR.
3. DISPOSAL OF ACM IS GOVERNED UNDER O.REG 347 GENERAL WASTE MANAGEMENT. IT REQUIRES THAT ALL ACM WASTE MUST BE PLACED IN DOUBLE SEALED LABELED CONTAINER THAT IS FREE OF CUTS, TEARS, OR PUNCTURES AND DISPOSED OF IN LICENSED WASTE FACILITIES THAT HAVE BEEN PROPERLY NOTIFIED.

LEAD BASED PAINT

1. LEAD-CONTAINING SHOULD BE MANAGED IN ACCORDANCE WITH O.REG. 490/09 DURING DEMOLITION ACTIVATES. WORKERS SHALL BE PROTECTED FROM EXPOSURE TO AIRBORNE LEAD IF THEY ARE UNDERTAKING ANY ACTIVITY THAT DISTURB SURFACES COVERED WITH LEAD-BASED PAINT.

DEMOLITION

1. DETERMINE IF ENVIRONMENTAL ASSESSMENT (EA) IS REQUIRED.
2. IF NECESSARY, EMPLOY QUALIFIED CONSULTANT TO PERFORM EA.
3. COMMUNICATE FINDINGS AND CONCLUSIONS IN WRITING TO DEPARTMENTAL REPRESENTATIVE PRIOR TO START OF WORK.
4. INVESTIGATE SITE AND STRUCTURES TO DETERMINE DISMANTLING, PROCESSING AND STORAGE LOGISTICS REQUIRED PRIOR TO BEGINNING OF WORK.
5. OBTAIN NECESSARY PERMITS AND APPROVALS INCLUDING DEMOLITION. PROVIDE COPIES TO DEPARTMENTAL REPRESENTATIVE PRIOR TO START OF WORK ON SITE.
6. DISCONNECT ELECTRICAL, TELEPHONE AND COMMUNICATION SERVICE LINES ENTERING BUILDINGS TO BE DECONSTRUCTED. POST WARNING SIGNS ON ELECTRICAL LINES AND EQUIPMENT WHICH MUST REMAIN ENERGIZED TO SERVE OTHER PRODUCTS DURING PERIOD OF DEMOLITION.
7. LOCATE AND PROTECT UTILITY LINES. DO NOT DISRUPT ACTIVE OR ENERGIZED UTILITIES TRAVERSING PREMISES.
8. DISCONNECT AND CAP MECHANICAL SERVICES.
9. MATERIALS REMOVED ARE PROPERTY OF THE CONTRACTOR.
10. THROUGHOUT COURSE OF DECONSTRUCTION PAY CLOSE ATTENTION TO CONNECTIONS AND MATERIAL ASSEMBLIES. EMPLOY WORKMANSHIP PROCEDURES WHICH MINIMIZE DAMAGE TO MATERIALS AND EQUIPMENT.
11. ENSURE WORKERS AND SUBCONTRACTORS ARE BRIEFED AND TRAINED TO CARRY OUT WORK IN ACCORDANCE WITH APPROPRIATE DECONSTRUCTION TECHNIQUES.
12. PROJECT SUPERVISOR WITH PREVIOUS DECONSTRUCTION EXPERIENCE MUST BE PRESENT ON SITE THROUGHOUT PROJECT.
13. DECONSTRUCT IN ACCORDANCE WITH CSA S350.
14. WORKERS MUST UTILIZE ADEQUATE FALL PROTECTION WHERE CONSIDERED NECESSARY.
15. MAINTAIN STRUCTURAL INTEGRITY OF STRUCTURE.
16. SYSTEMATICALLY REMOVE FINISHES, FURNISHINGS, AND MECHANICAL AND ELECTRICAL EQUIPMENT OF VALUE.
17. DISASSEMBLE IN SEQUENCE: ROOF STEEL, INTERIOR PARTITIONS, EXTERIOR WALL STEEL, DOORS, WINDOWS AND CONCRETE FLOORS.
18. SUPPLY SEPARATE, MARKED DISPOSAL BINS FOR CATEGORIES OF WASTE MATERIAL OR SEPARATE MATERIAL INTO ORGANIZED PILES AS PRACTICAL.
19. TRANSPORT MATERIAL DESIGNATED FOR ALTERNATE DISPOSAL IN ACCORDANCE WITH APPLICABLE REGULATIONS.
20. DISPOSE OF MATERIALS NOT DESIGNATED FOR ALTERNATE DISPOSAL IN ACCORDANCE WITH APPLICABLE REGULATIONS.
21. KEEP SITE CLEAN AND ORGANIZED THROUGHOUT DECONSTRUCTION.
22. UPON COMPLETION OF PROJECT, REMOVE DEBRIS AND LEAVE WORK SITE CLEAN.

METAL ROOFING, SIDING, LINER PANEL AND METAL FLASHING:

1. GENERAL DESIGN SHALL BE BASED ON CSA STANDARD CAN/CSA-S136-01.
2. METAL SIDING AND FLASHING SHALL BE FABRICATED FROM STEEL SHEETS

CONFORMING TO ASTM SPECIFICATION A653/A653M-03, GRADE "33" WITH A G90 (Z275) ZINC.

3. DESIGN PANELS TO RESIST THE REQUIRED ENVIRONMENTAL LOADS BUT IN NO CASE LESS THAN 1.0 kPa. ACTUAL DESIGN LOADS TO BE BASED ON LOCATION, GEOMETRY AND USE OF BUILDING.
4. SIDING AND FLASHING TO BE INSTALLED IN ACCORDANCE MANUFACTURER'S WRITTEN INSTRUCTIONS.
5. METAL ROOF PANELS PROFILE TO BE CL622R, EXTERIOR METAL SIDING PROFILE TO BE CL5022R AND INTERIOR LINER PROFILE TO BE CL508 (CHANNELWALL).
6. SIDING MATERIAL TO BE FORMED FROM GALVANIZED PRE-PAINTED STEEL WITH CORE NOMINAL THICKNESS OF 1.22 mm AS MANUFACTURED BY VICWEST OR APPROVED EQUIVALENT.
7. EXTERIOR METAL SIDING MATERIAL TO BE PRE-PAINTED WITH SILICONE MODIFIED POLYESTER (SMP) "WEATHER X" PAINT SYSTEM, ON THE INTERIOR AND EXTERIOR SURFACES. EXTERIOR COATINGS TO BE IN ACCORDANCE WITH ASTM SPECIFICATION A924/A924M-06.
8. PREFINISHED CLADDING BARRIER COATING THICKNESS SHALL BE 8 MILS ON EXTERIOR EXPOSED SURFACE OF THE FINISHED PROFILE AND 8 MILS ON THE REVERSE.
9. FINISHED COLOUR TO BE SELECTED BY OWNER FROM MANUFACTURER'S STANDARD COLOUR RANGE.
10. CLOSURES, FLASHING, SILLS, FILLERS, CORNER PIECES, DOWNSPOUT AND CONDUCTOR HEAD SHALL BE FABRICATED FROM SAME MATERIAL AS METAL SIDING.
11. SCREWS SHALL BE CORROSION RESISTANT PURPOSE MADE, HEAD COLOUR TO MATCH ATTACHED SHEET.
12. FASTENERS SHALL BE SUPPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO MEET THE LOAD REQUIREMENTS.
13. SAMPLES OF METAL SIDING COLOUR, PROFILE AND FLASHING ARE TO BE SUBMITTED FOR OWNERS APPROVAL PRIOR TO FABRICATION.

SEALANT

1. MULTI-COMPONENT SEALANTS TO MEET CGSB SPECIFICATION CAN/CGSB-19.24, (2-PART URETHANE) OR SINGLE COMPONENT SEALANT TO MEET CGSB SPECIFICATION CAN/CGSB-19.13, (SILICONE) TO BE USED FOR:
 - a. EXTERIOR JOINTS AROUND PERIMETERS OF METAL DOOR FRAMES INCLUDING THRESHOLDS AND SILLS.
 - b. EXTERIOR JOINTS AROUND PERIMETERS OF LOUVRE FRAMES AND DUCT PENETRATIONS.
 - c. EXTERIOR PERIMETER OF CONDUIT, WIRE AND PIPE PENETRATIONS.
 - d. ROOF FLASHING.
2. USE ONE OF THE FOLLOWING SEALANTS:
 - a. DYMERIC BY TREMCO (CANADA) LIMITED.
 - b. 1200 SEALANT BY CGE CANADA LTD.
 - c. 795 SEALANT BY DOW CORNING CANADA

RIGID INSULATION

1. INTERIOR FACE OF FOUNDATION WALLS: STYROFOAM SM BY DOW CHEMICAL CANADA INC., OR APPROVED EQUAL, EXPANDED CLOSED CELL POLYSTYRENE TO CAN/CGSB-51.20 TYPE 4.
2. RIGID INSULATION UNDER SLAB: HIGHLOAD 100 BY DOW CHEMICAL CANADA INC., OR APPROVED EQUAL, EXPANDED CLOSED CELL POLYSTYRENE. MINIMUM COMPRESSIVE STRENGTH OF 100 PSI.
3. PROVIDE IN TOTAL THICKNESS AND DEPTH AS SHOWN ON THE DRAWINGS.

SPRAY FOAM INSULATION

1. SPRAY FOAM IN WALLS AND ROOF: "WALLTITE" SPRAY POLYURETHANE TO CAN/UOLC-S705.1.
2. PRIMERS: IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATION FOR SURFACE CONDITIONS
3. MANUFACTURERS HAVING COMPARABLE PRODUCTS TO THE REQUIREMENTS OF THIS SECTION, CONSIDERED ACCEPTABLE FOR USE
 - a. BASF – THE CHEMICAL COMPANY
 - b. CONSULTANT APPROVED EQUAL.

VERTICAL LIFT METAL DOORS:

1. DOOR SUPPLIER SHALL SUBMIT 3 COPIES OF SHOP DRAWINGS, MANUFACTURER'S OWNER'S MANUAL, MAINTENANCE MANUAL AND MASTER SERVICE MANUAL TO THE OWNER.
2. SECTIONAL DOORS SHALL BE SERIES THERM-O-DOR TO 138 AS MANUFACTURED BY STEEL-CRAFT DOOR PRODUCTS LTD. OR AN CONSULTANT APPROVED SUBSTITUTE DOOR SHALL BE TO SIZES NOTED ON THE DRAWINGS.
3. WINDOWS – SINGLE GLAZED: SIZE 24 INCH WIDE x 8 INCH HIGH x 1/8 INCH THICK CLEAR ACRYLIC LITES WITH ROUNDED CORNERS, MOUNTED IN CONTINUOUS RUBBER MOULDINGS IN DOOR SKINS.

4. LOWER VERTICAL TRACK SHALL BE U-SHAPED 12 GAUGE GALVANIZED STEEL.
5. DOOR INSTALLER SHALL EXAMINE THE SUBSTRATE AND CONDITIONS UNDER WHICH DOOR IS TO BE INSTALLED AND NOTIFY THE OWNER/ENGINEER IN WRITING OF ANY CONDITIONS DETRIMENTAL TO THE PROPER AND TIMELY COMPLETION OF THE WORK. DO NOT PROCEED WITH THE WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED IN A MANNER ACCEPTABLE TO THE INSTALLER.
6. DOOR INSTALLER SHALL INSTALL DOORS IN ACCORDANCE WITH APPROVED SHOP DRAWINGS AND MANUFACTURER'S RECOMMENDATIONS. LOCATION OF DOOR AND HARDWARE SHALL BE AS INDICATED ON DRAWINGS.
7. IN ADDITION TO MANUFACTURER'S STANDARD WARRANTY OF ONE YEAR ON WORKMANSHIP AND MATERIALS, PROVIDE FIVE-YEAR WARRANTY AGAINST DELAMINATING OF INSULATED STEEL DOOR PANELS.

HOLLOW METAL DOORS AND FRAMES

1. DOOR FACE, 1.6 MM BASE THICKNESS STEEL SHEET, FLUSH TYPE, WITH NO FACE SEAMS.
2. CORE: SOLID SLAB OF POLYURETHANE INSULATION COMPLETELY FILLING INSIDE OF DOOR AND BONDED UNDER PRESSURE TO FACE SHEETS.
3. WELDED CORNERS, GROUND, FILLED AND SANDED SMOOTH, PRIMED AND PREPARED FOR FINAL FINISHING.
4. EXTERIOR DOOR FRAMES: 1.6 MM THICK BASE STEEL, THERMAL BREAK ASSEMBLY.
5. SET PLUMB, SQUARE, LEVEL AND AT CORRECT ELEVATION. ANCHOR TO ADJACENT CONSTRUCTION.
6. BRACE WHILE BUILDING-IN. INSTALL TEMPORARY HORIZONTAL WOOD SPREADERS AT THIRD POINTS OF DOOR OPENING TO MAINTAIN FRAME WIDTH. PROVIDE VERTICAL SUPPORT AT CENTRE OF HEAD FOR OPENINGS OVER 1200 MM WIDE. REMOVE TEMPORARY SPREADERS AND SUPPORTS AFTER FRAMES ARE BUILT-IN.
7. MAKE ALLOWANCE FOR DEFLECTION TO ENSURE STRUCTURAL LOADS ARE NOT TRANSMITTED TO FRAMES.
8. DOOR INSTALLATION: INSTALL DOORS AND HARDWARE IN ACCORDANCE WITH TEMPLATES AND MANUFACTURER'S INSTRUCTIONS.
9. PROVIDE EVEN MARGINS BETWEEN DOORS AND JAMBS AND DOORS AND FLOORING AND THRESHOLDS AS FOLLOWS:
 - HINGE SIDE: 1.0 MM.
 - LATCH SIDE AND HEAD: 1.5 MM. FLOORING AND THRESHOLDS: 13 MM.
10. ADJUST OPERABLE PARTS FOR CORRECT FUNCTION.
11. INSTALL VINYL TOP CAPS IN OUT SWINGING EXTERIOR DOORS FOR WEATHER PROTECTION.

VINYL OPERATING WINDOWS

1. DESIGN WINDOWS TO PREVENT THERMAL SHOCK AND FRACTURE DAMAGE TO GLASS. PERFORM STRESS ANALYSIS, DESIGN GLASS AND GLAZING TO MEET CAN/CGSB 12.20. DESIGN WINDOWS TO ACCOMMODATE LIVE, DEAD, LATERAL, WIND, SEISMIC, HANDLING, TRANSPORTATION, AND ERECTION LOADS. COMPLY WITH PUBLISHED RECOMMENDATIONS OF GLASS MANUFACTURER AND GLASS ASSOCIATION OF NORTH AMERICA GLAZING MANUAL.
2. DESIGN ALL GLAZING SYSTEMS TO PROVIDE FOR POSITIVE DRAINAGE OF WATER ENTERING CLADDING SYSTEMS TO EXTERIOR FACE OF BUILDING
3. ENSURE ALL WINDOWS MEET THE LISTED CAN/CSA A440 WINDOW CLASSIFICATION RATINGS SPECIFIED.
4. DESIGN WINDOWS, INCLUDING ANCHORAGE TO ACCOMMODATE THERMAL MOVEMENTS OF UNITS RESULTING FROM TEMPERATURE CHANGE RANGE OF 67 DEG C, AMBIENT 100 DEG C, FOR MATERIAL SURFACES WITHOUT BUCKLING, DISTORTION, OPENING OF JOINTS, FAILURE OF JOINT SEALANTS, DAMAGING LOADS AND STRESSES ON GLAZING AND CONNECTIONS AND OTHER DETRIMENTAL EFFECTS. BASE ENGINEERING CALCULATIONS ON ACTUAL SURFACE TEMPERATURES OF MATERIALS DUE TO SOLAR HEAT GAIN AND NIGHT TIME SKY HEAT LOSS.
5. REINFORCE UNITS TO WITHSTAND HANDLING STRESSES, TEMPERATURE CHANGES, THE EFFECT OF SHRINKAGE FORCES, WIND LOADS AND ALL OTHER DEAD AND LIVE LOADS INCLUDING FORCES INDUCED BY OTHER ELEMENTS.
6. DESIGN FOR WIND LOADS TO NATIONAL BUILDING CODE OF CANADA.
7. DESIGN AND ANCHOR WORK SO THAT THERE WILL BE NO OBJECTIONABLE DISTORTION OR SERIOUSLY STRESSED FASTENINGS AS THE METAL EXPANDS AND CONTRACTS. DESIGN AND FABRICATE EXPANSION JOINTS TO ENSURE THAT THEY WILL BE, AND REMAIN, PERMANENTLY WATERTIGHT. PROVIDE ALL NECESSARY WIND BRACING AS REQUIRED.
8. DESIGN MULLIONS FOR MAXIMUM DEFLECTION OF L/175 OR 19 MM MAXIMUM, UNDER DESIGN WIND AND MAINTENANCE LOAD.
9. WINDOWS SHALL BE FABRICATED OF POLYVINYL CHLORIDE (PVC) MATERIAL, STYLIZED SASH (143MM).
 - a. FUSION WELDED PVC FRAME AND SASHES, THREE WEATHER-STRIPS FOR PROTECTION AGAINST AIR INFILTRATION
 - b. HARDWARE; MULTI-POINT, FOLDING "ENCORE" HANDLE.
 - c. SEALED GLASS UNIT WITH 16MM AIR SPACE. TRIPLE, LOW-E ARGON H.P
 - d. NYLON SCREENS: TO CAN/CGSB-79.1.
 - e. FASTENERS: TAMPER PROOF.

11. VINYL FINISHES: IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440, INCLUDING APPENDICES, SUPPLEMENTED AS FOLLOWS: GLAZE WINDOWS IN ACCORDANCE WITH AAMA/WDMA/CSA 101/I.S.2/A440.
12. INSTALL WINDOWS IN ACCORDANCE WITH CSA-A440/A440.1.
13. INSTALL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS INCLUDED WITH EACH UNIT.
14. APPLY SEALANT AROUND PERIMETER OF WINDOW UNIT BETWEEN NAIL FIN AND EXTERIOR SHEATHING OF WALL.
15. INSTALL WINDOW UNIT LEVEL AND PLUMB. CENTER WINDOW UNIT IN OPENING AND SECURE WINDOW UNIT BY NAILING THROUGH NAIL FIN AND SCREW THROUGH JAMBS AS INDICATED IN MANUFACTURER'S INSTRUCTIONS.
16. FLASH WINDOWS IN ACCORDANCE WITH AAMA'S "STANDARD PRACTICE FOR INSTALLATION OF WINDOWS WITH A MOUNTING FLANGE IN STUD FRAME CONSTRUCTION".
17. ADJUST OPENING SASH AND HARDWARE TO OPERATE SMOOTHLY.
18. ROUGH OPENING SIZES INDICATED ARE APPROXIMATIONS ONLY. CONTRACTOR TO VERIFY ACTUAL ROUGH OPENING REQUIREMENTS ON SITE BASED ON MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS.
19. SEAL JOINTS BETWEEN WINDOWS AND WINDOW SILLS WITH SEALANT. BED SILL EXPANSION JOINT COVER PLATES AND DRIP DEFLECTORS IN BEDDING COMPOUND. CAULK BETWEEN SILL AND WINDOW-FRAME. CAULK BUTT JOINTS IN CONTINUOUS SILLS.

AIR BARRIER AND VAPOUR RETARDER

1. EQUIP WINDOW FRAMES WITH SITE INSTALLED AIR BARRIER AND VAPOUR RETARDER MATERIAL FOR SEALING TO BUILDING AIR BARRIER AND VAPOUR RETARDER AS FOLLOWS:
 - f. MATERIAL: IDENTICAL TO, OR COMPATIBLE WITH, BUILDING AIR BARRIER AND VAPOUR RETARDER MATERIALS TO PROVIDE REQUIRED AIR TIGHTNESS AND VAPOUR DIFFUSION CONTROL THROUGHOUT EXTERIOR ENVELOPE ASSEMBLY.
 - g. MATERIAL WIDTH: ADEQUATE TO PROVIDE REQUIRED AIR TIGHTNESS AND VAPOUR DIFFUSION CONTROL TO BUILDING AIR BARRIER AND VAPOUR RETARDER FROM INTERIOR.

PAINTING

1. THE PAINTING SCHEDULE IN THIS SECTION IS BASED ON THE PRODUCTS OF BENJAMIN MOORE.
2. COMPARABLE PRODUCTS OF GLIDDEN, ICI-DEVAE, COLOUR-YOUR-WORLD, SHERWIN WILLIAMS OR PARA PAINTS, PREMIUM LINE ARE ACCEPTABLE.
3. ALL FINISHES TO BE APPLIED BY SKILLED AND EXPERIENCED APPLICATORS OVER CLEAN AND DRY SURFACES ONLY.
4. PAINT SHALL BE EVENLY SPREAD AND EACH COAT WELL LEVELLED, WITHOUT RUNS, SAGS OR OTHER BLEMISHES.
5. EXCESS PAINT WHICH TENDS TO FILL UP ANGLES AND PROFILES OR SMALL MOULDINGS SHALL BE NEATLY CUT AWAY AND SUCH WORK FINISHED TO THE CONSULTANT'S SATISFACTION.
6. FINISHES OF EACH TYPE SHALL BE UNIFORM AS TO SHEEN, COLOUR, TEXTURE AND THICKNESS.
7. GENERAL:
 - a. PREPARATION FOR THIS WORK SHALL CONSIST OF CLEANING OFF LOOSE MATERIAL, REMOVING ALL DUST, DIRT, GREASE, RUST AND OTHER EXTRANEIOUS MATTER WHICH WOULD IMPAIR THE WORK, AND LEAVING ALL SURFACES CLEAN AND SUITABLE FOR THE APPLICATION OF THE MATERIALS HEREIN SPECIFIED.
 - b. ALL WORK SHALL BE RUBBED OR SANDED SMOOTH BEFORE PAINTING AND/OR FINISHING IS COMMENCED.
 - c. GALVANIZED METAL SURFACES, REMOVE DIRT AND GREASE WITH MINERAL SPIRITS AND WIPE DRY WITH CLEAN CLOTHS.
8. SCHEDULE – HOLLOW METAL DOORS AND FRAMES:
 - a. PRIMER: ONE COAT ALKYD RUST PAINT MOORE PRIMER 163.
 - b. FINISH: TWO COATS MOORE STYLE 589 ALKYD GLOSS ENAMEL.
 - c. COLOUR TO BE SELECTED FROM MANUFACTURERS' STANDARD COLOURS.

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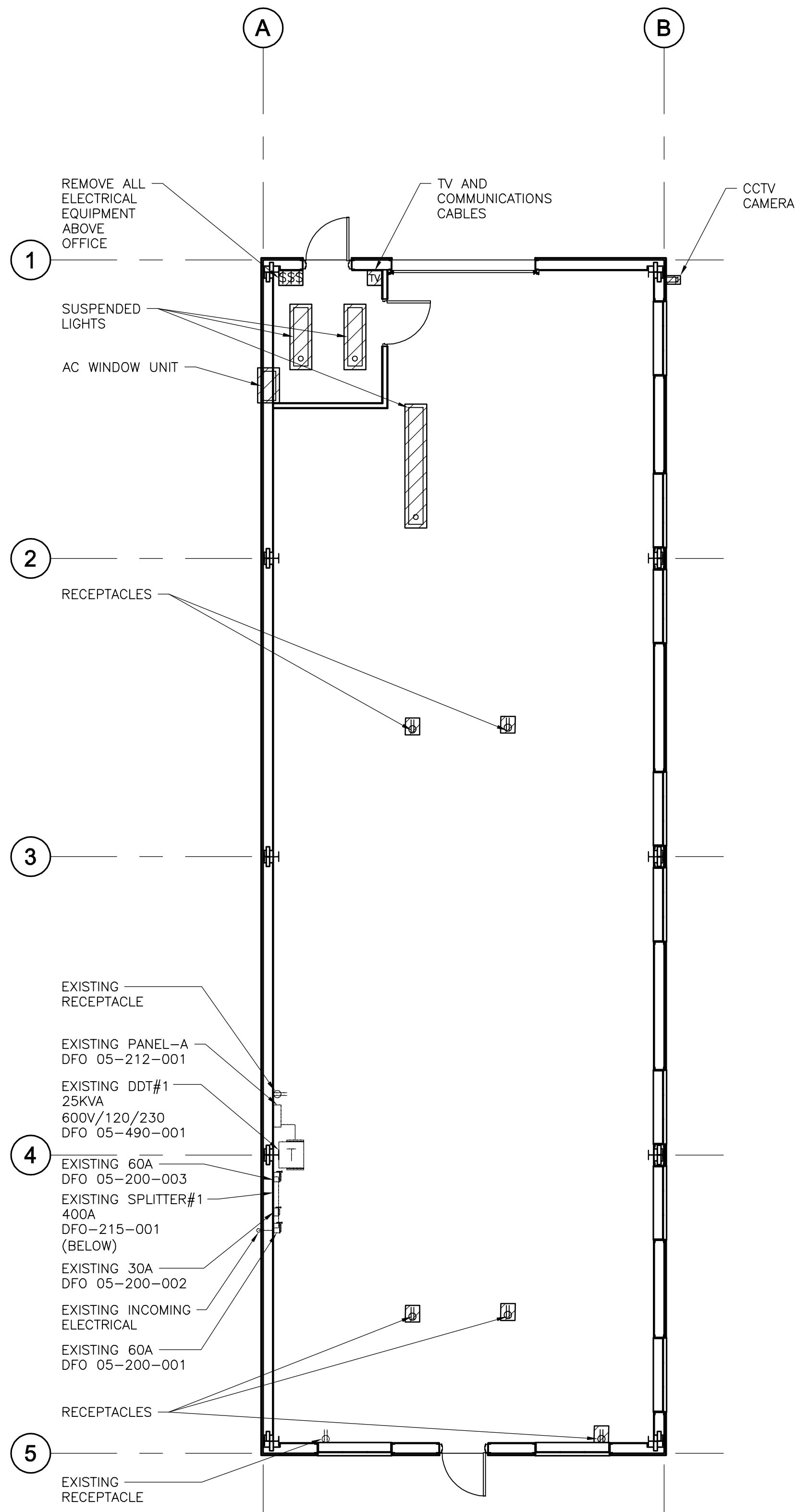
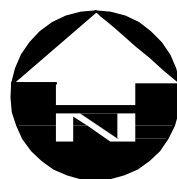
DESIGN	ND	REVIEWED BY	
DRAWN	PDR	CHECKED BY	
DATE	MAY 2020		
SCALE	NOTED		
2	ISSUED FOR CONSTRUCTION	07/29/20	ND
1	ISSUED FOR CLIENT REVIEW	06/22/20	ND
No.	ISSUED FOR	DATE	BY

CANADIAN COAST GUARD BASE
401 KING STREET W, PRESCOTT, ON

PROJECT NO. 20-2403

SHEET NO. **A5**

**RECONDITIONING OF BUILDING 'F'
OUTLINE SPECIFICATIONS**



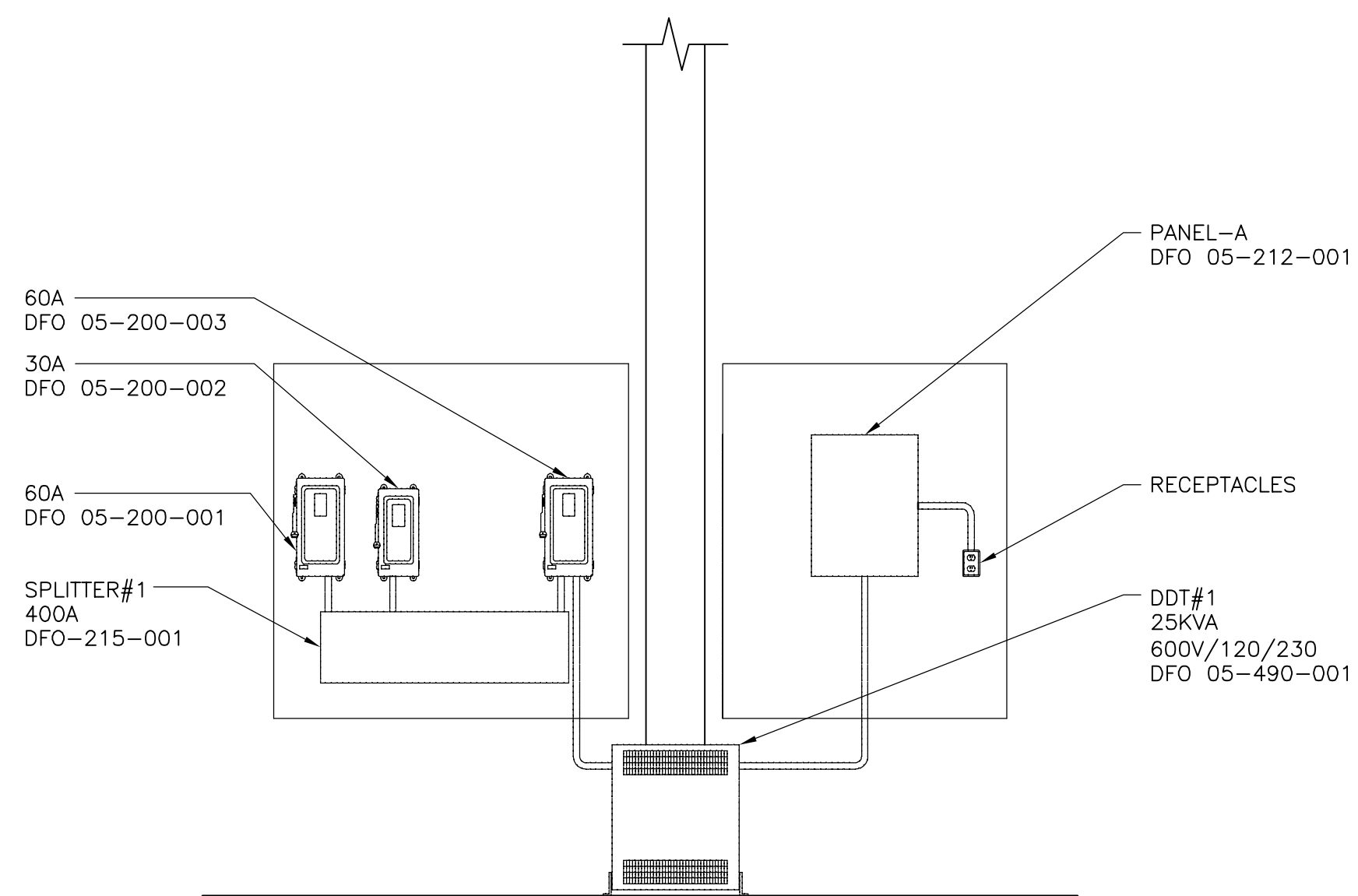
DEMOLITION POWER AND LIGHTING PLAN

1:75

NOTES

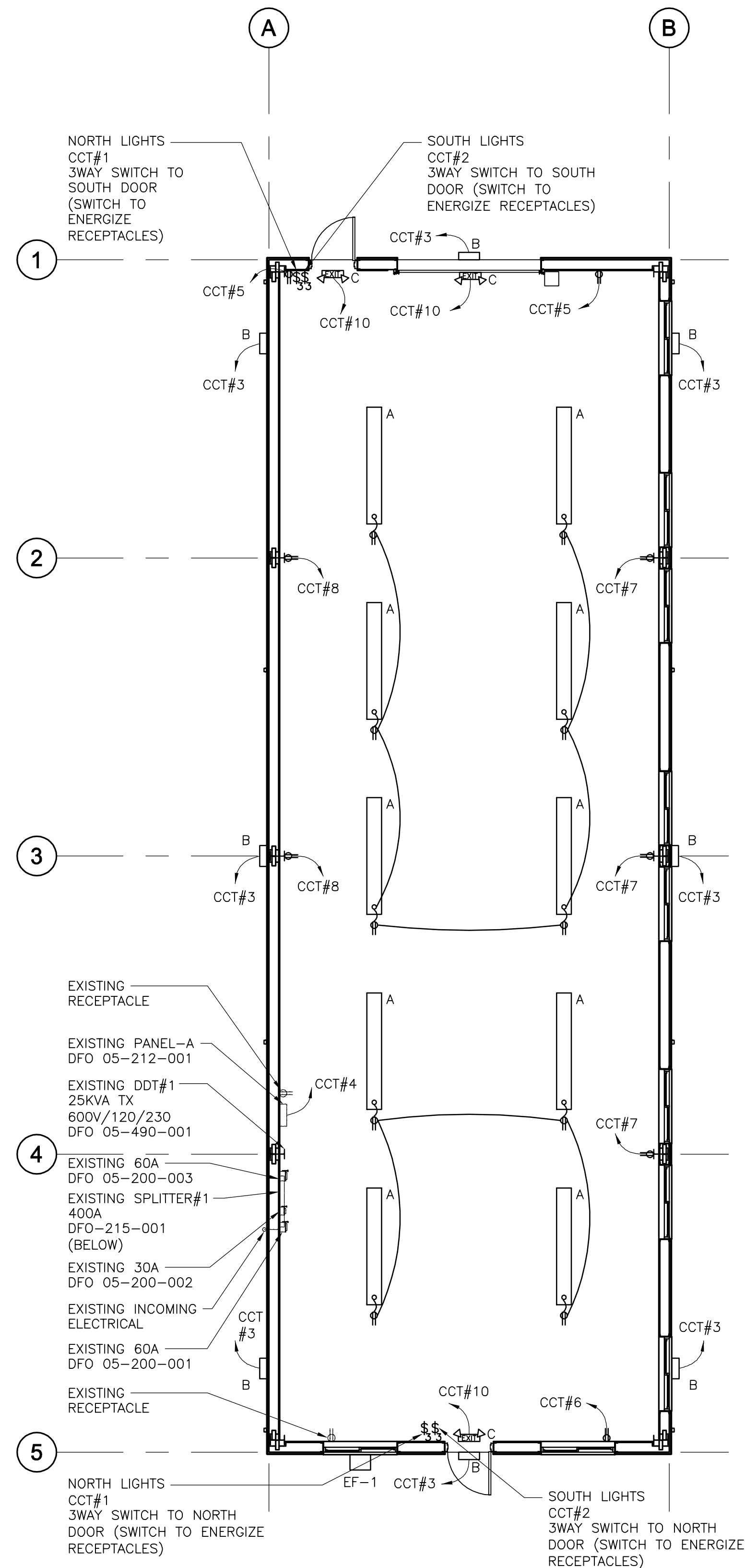
- 1. INCOMING ELECTRICAL SERVICE TO REMAIN (SPLITTER, DISCONNECTS, LIGHTING PANEL, TX.) CONTRACTOR TO VERIFY EXISTING ELECTRICAL EQUIPMENT IN THE FIELD.
- 2. CONTRACTOR TO REMOVE ALL ELECTRICAL CONDUITS, WIRING, SWITCHES, RECEPTACLES, JUNCTION BOX, CAMERAS, ETC. AC, TV AND CAMERA TO BE RETURNED TO OWNER. (THIS DEMO DETAIL DOES NOT DEPICT WHAT MAY BE IN THE FIELD. ADDITIONAL ITEMS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER/OWNER.)
- 3. CONTRACTOR TO SEAL ALL PENETRATIONS.
- 4. EXHAUST FAN EF-1 TO BE CONTROLLED BY THERMOSTAT. EF-1 TO BE INTERLOCKED WITH DAMPER.

PANEL - A(EX) 100A, 1Ø, 120/240V, 60HZ				18CCT.	
LOAD	DESCRIPTION			DESCRIPTION	LOAD
	INTERIOR LIGHTS - NORTH	15A 1	2 15A	INTERIOR LIGHTS - SOUTH	
	EXTERIOR LIGHTS	15A 3	4 15A	PANEL RECEPTACLE	
	NORTH WALL RECEPTACLES	15A 5	6 15A	SOUTH WALL RECEPTACLES	
	EAST WALL RECEPTACLES	15A 7	8 15A	WEST WALL RECEPTACLES	
	EF-1(EXHAUST FAN/DAMPER)	15A 9	10 15A	EXIT AND EMG LIGHTS	
		11	12 15A	GARAGE DOOR OPENER	
		13	14		
		15	16		
		17	18		



EXISTING ELECTRICAL LAYOUT (TO REMAIN)

N.T.S.



NEW ELECTRICAL POWER AND LIGHTING PLAN

1:75

LEGEND

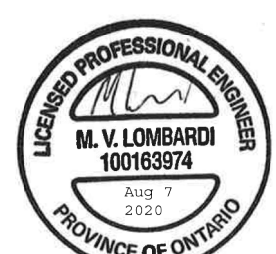
INDICATES EQUIPMENT TO REMOVED AND/OR RELOCATED

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DESIGN	REVIEWED BY
MVL	
DRAWN	CHECKED BY
WC	
DATE	MAY 2020
SCALE	NOTED

CANADIAN COAST GUARD BASE
401 KING STREET W, PRESCOTT, ON

ELECTRICAL - DEMO, NEW POWER AND LIGHTING

PROJECT NO.
20-2403

SHEET NO.

E1

1.0 – GENERAL CONDITIONS

- 1.1 GENERAL
THE FOLLOWING GENERAL CONDITIONS SHALL BE READ IN CONJUNCTION WITH THE GENERAL CONDITIONS AND SPECIAL CONDITIONS CONTAINED IN THE ASSOCIATED SPECIFICATIONS.
- 1.2 SCOPE OF WORK
THIS CONTRACTOR SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND ASSOCIATED SERVICES NECESSARY FOR, AND INCIDENTAL TO THE COMPLETE DEMOLITION, INSTALLATION OF COMPLETELY FINISHED, TESTED, BALANCED AND PROPERLY OPERATING ELECTRICAL SYSTEMS AS SPECIFIED HEREAFTER AND SHOWN ON DRAWINGS. THE INTENTION IS TO PROVIDE FOR A FINISHED PIECE OF WORK COMPLETE IN ALL ESSENTIALS AS CALLED FOR BY THE DOCUMENTS AND ACCEPTED GOOD PRACTICE.
- 1.3 CLEANING UP
THIS CONTRACTOR SHALL, AT ALL TIMES, KEEP THE SITE NEAT & CLEAN AND FREE FROM ACCUMULATION OF WASTE, MATERIALS AND RUBBISH WHICH ARISE OUT OF HIS WORK.
- 1.4 EQUIPMENT
EQUIPMENT AND MATERIAL TO BE CSA/ULC CERTIFIED, AND MANUFACTURED TO STANDARD QUOTED. WHERE THERE IS NO ALTERNATIVE TO SUPPLYING EQUIPMENT WHICH IS NOT CSA CERTIFIED, OBTAIN SPECIAL APPROVAL FROM LOCAL CSA OFFICE OR ESA OR GOVERNING BODY.
- 1.5 AS BUILT DRAWINGS
THIS CONTRACTOR SHALL MAINTAIN, AT THE JOB SITE, ONE SET OF PLANS ON WHICH HE SHALL CLEARLY NOTE ALL CHANGES OR DEVIATIONS FROM THE CONTRACT DOCUMENTS, AS THE JOB PROGRESSES THE CONTRACTOR SHALL AT THE TIME OF FINAL INSPECTION SUBMIT TO THE ARCHITECT, ENGINEERS OR OWNERS REPRESENTATIVE, ONE SET OF "AS-BUILT" DRAWINGS.
- 1.6 PROVIDE AND SUBMIT DRAWINGS TO ALL AUTHORITIES AS REQUIRED.
- 1.7 WORK SHALL BE DONE IN ACCORDANCE WITH ALL AUTHORITIES HAVING JURISDICTION AND TO ALL APPLICABLE CODES WITHOUT ADDITIONAL EXPENSE TO THE OWNER.
- 1.8 BEFORE THE WORK IS COMPLETED, THOROUGHLY CLEAN ALL EQUIPMENT.

2.0 – WIRE AND CABLE

- 2.1 ALL CONDUCTORS SHALL BE STRANDED COPPER, MIN. SIZE # 12 AWG, WITH RW90 X-LINK INSULATION.
- 2.2 CONDUCTORS SHALL BE COLOURED WHITE FOR NEUTRAL; RED, BLACK, AND BLUE FOR PHASE CONDUCTORS; AND GREEN FOR GROUND CONDUCTORS. COLOUR SHALL BE CONTINUOUS THROUGHOUT.
- 2.3 WIRE IN UNDERGROUND PVC DUCTS TO BE RWU-90.

3.0 – GROUNDING

- 3.1 THE ENTIRE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE CANADIAN ELECTRICAL CODE, OESC AND LOCAL AUTHORITY HAVING JURISDICTION OVER INSTALLATION.

4.0 – PERMIT AND BY-LAWS

- 4.1 THIS CONTRACTOR SHALL ABIDE BY ALL CODES AND BY-LAWS RELATED TO THIS INSTALLATION. PROVIDE NECESSARY NOTICE, OBTAIN AND PAY FOR ALL PERMITS OR OTHER FEES, IN ORDER THAT WORK SPECIFIED MAY BE CARRIED OUT.

5.0 – FIELD QUALITY CONTROL

- 5.1 TEST ELECTRICAL EQUIPMENT FOR CORRECT OPERATION IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 5.2 PERFORM TESTS USING QUALIFIED PERSONNEL. PROVIDE NECESSARY INSTRUMENTS AND EQUIPMENT.
- 5.3 CHECK PHASE ROTATION AND IDENTIFY EACH PHASE CONDUCTOR OF EACH FEEDER. IF APPLICABLE.
- 5.4 CHECK EACH FEEDER FOR CONTINUITY, SHORT CIRCUITS AND GROUNDS. ENSURE RESISTANCE TO GROUND OF CIRCUITS IS NOT LESS THAN 50 MEGOHMS. IF APPLICABLE.

6.0 – CONDUITS

- .1 STANDARD RIGID WITH THREADED COUPLINGS, GALVANIZED STEEL.
- .2 EMT WITH RAIN TIGHT CONNECTORS FOR CONDUIT RUNS IN BUILDING INTERIORS.
- .3 FLEXIBLE CONDUIT SHALL BE STEEL, PVC COVERED, LIQUID-TIGHT WITH INTEGRAL GROUND STRAP.

6.1 – EXPANSION FITTINGS FOR RIGID CONDUIT

- .1 WEATHERPROOF EXPANSION FITTINGS WITH INTERNAL BONDING ASSEMBLY SUITABLE FOR 200 MM LINEAR EXPANSION.
- .2 WATERTIGHT EXPANSION FITTINGS WITH INTEGRAL BONDING JUMPER SUITABLE FOR LINEAR EXPANSION AND 19 MM DEFLECTION IN ALL DIRECTIONS.
- .3 WEATHERPROOF EXPANSION FITTINGS FOR LINEAR EXPANSION AT ENTRY TO PANEL.

6.2 – FISH CORD

- .1 POLYPROPYLENE.

6.3 – INSTALLATION

- .1 USE RIGID HOT DIPPED GALVANIZED STEEL THREADED CONDUIT ABOVE GRADE WHERE EXPOSED TO MECHANICAL DAMAGE.
- .2 USE RIGID PVC CONDUIT UNDERGROUND.
- .3 INSTALL CONDUIT SEALING FITTINGS IN HAZARDOUS AREAS. FILL WITH COMPOUND.
- .4 MINIMUM CONDUIT SIZE FOR LIGHTING AND POWER CIRCUITS: 19 MM.
- .5 BEND CONDUIT COLD. REPLACE CONDUIT IF KINKED OR FLATTENED MORE THAN 1/10TH OF ITS ORIGINAL DIAMETER.
- .6 MECHANICALLY BEND STEEL CONDUIT OVER 19 MM DIA.
- .7 FIELD THREADS ON RIGID CONDUIT MUST BE OF SUFFICIENT LENGTH TO DRAW CONDUITS UP TIGHT.
- .8 INSTALL FISH CORD IN EMPTY CONDUITS.
- .9 REMOVE AND REPLACE BLOCKED CONDUIT SECTIONS. DO NOT USE LIQUIDS TO CLEAN OUT CONDUITS.
- .10 DRY CONDUITS OUT BEFORE INSTALLING WIRE.
- .11 PROVIDE AND INSTALL EXPANSION JOINTS ON ALL CONDUIT RUNS WHEN CROSSING EXISTING STRUCTURAL EXPANSION JOINTS.

7.0 – BOXES AND ENCLOSURES

- 7.1 ALL EEMAC 1 INDOORS AND EEMAC 4 OUTDOORS.
- 7.2 PULL BOXES AND JUNCTION BOXES SHALL BE CODE GAUGE SHEET STEEL OF WELDED CONSTRUCTION WITH SCREW-ON COVER.

8.0 – SHOP DRAWINGS

- 8.1 THE CONTRACTOR SHALL FURNISH TO THE ENGINEER SHOP DRAWINGS FOR ALL NEW FIXTURES. PANELBOARDS, TRANSFORMERS, METERING EQUIPMENT, DISCONNECT SWITCHES. FIRE ALARM SYSTEM FOR REVIEW.

9.0 AS BUILT DRAWINGS

- 9.1 THE CONTRACTOR SHALL FURNISH TO THE ENGINEER ON COMPLETION OF THE WORK ONE SET OF THE ENGINEER'S DRAWINGS NEATLY MARKED UP TO SHOW THE ACTUAL INSTALLATION AS BUILT.

LIGHTING FIXTURE SCHEDULE		
TYPE	QTY	DESCRIPTION
A	10	SINGLE LED SUSPENDED LUMINAIRES, METAL HOUSING, 4000K, CRI 80, 120/277V UNIVERSAL VOLTAGE, FLAT DIFFUSE LENS, PENDENT MOUNTED SIGNIFY CAT. No.: LBX 40 L840 UNV FD OR VISCOR CAT. No.: LCOMN INTELLECT LED LCOMN48 LED 8 40K UNV P95 OR EATON CAT. No.: 4APVTL4 40L 840 OR OWNER APPROVED EQUAL
B	8	SINGLE LED WALL SCONCE, 16 LEDS, 400MA, NEUTRAL WHITE 4000K, 70 CRI GENERATION 4, TYPE 3, 120/277V UNIVERSAL VOLTAGE, LOW COPPER DIE CAST ALUMINUM ALLOY C/W PHOTOCELL AND MOTION DETECTION. SIGNIFY CAT. No.: 121 16L 400 NW G4 3 UNV IMR13 PCB DGY OR ACUITY BRANDS CAT. No.: HLWPC2 P10 40K AS T3M GYDP MASL PE OR EATON CAT. No.: ISW AF 350 LED E1 T3 AP P MS/DIM-L12 OR OWNER APPROVED EQUAL
C	3	EMERGENCY/EXIT LIGHTING COMBINATION, STEEL HOUSING WITH TWO LED LAMPS AND EXTRA CAPACITY FOR REMOTE HEADS. MAINTENANCE FREE BATTERY AND CHARGING UNIT. CSA APPROVED STANPRO CAT. No.: PRMS-1-272-2S-5LA-AT OR OWNER APPROVED EQUAL

Conditions of Use
Verify elevations and/or dimensions on drawing prior to use. Report any discrepancies to Dillon Consulting Limited.
Do not scale dimensions from drawing.
Do not modify drawing, re-use it, or use it for purposes other than those intended at the time of its preparation without prior written permission from Dillon Consulting Limited.



DESIGN	MVL	REVIEWED BY	
DRAWN	WC	CHECKED BY	
DATE	MAY 2020		
SCALE	NOTED		
No.	ISSUED FOR	DATE	BY
2	ISSUED FOR CONSTRUCTION	08/07/20	MVL
1	ISSUED FOR CLIENT REVIEW	06/22/20	MVL

PROJECT NO.	20-2403
CANADIAN COAST GUARD BASE 401 KING STREET W, PRESCOTT, ON	
SPECIFICATIONS	E2