



Public Works
Government Services
Canada

Architectural and
Engineering Services

Ontario Region

Travaux publics
Services gouvernementaux
Canada

Services d'architecture
et de génie

Région de l'Ontario

Kingston Ontario

Public Works and Government Services Canada
294 King St. East
Kingston ON K7L 3B2

Dry Cell Relocation – Structured Intervention Unit Millhaven Institution

R.106776.001

Canada

LIST OF DRAWINGS

ARCHITECTURAL

A-100	SITE PLAN, LEGEND, BUILDING ASSEMBLIES AND GENERAL NOTES
A-101	DEMOLITION FLOOR PLAN AND DEMOLITION REFLECTED CEILING PLAN
A-102	NEW FLOOR PLAN AND NEW REFLECTED CEILING PLAN
A-201	INTERIOR ELEVATIONS
A-301	DETAILS

STRUCTURAL

S-100	GENERAL NOTES
S-101	TYPICAL DETAILS
S-102	PART GROUND FLOOR PLANS & DETAILS

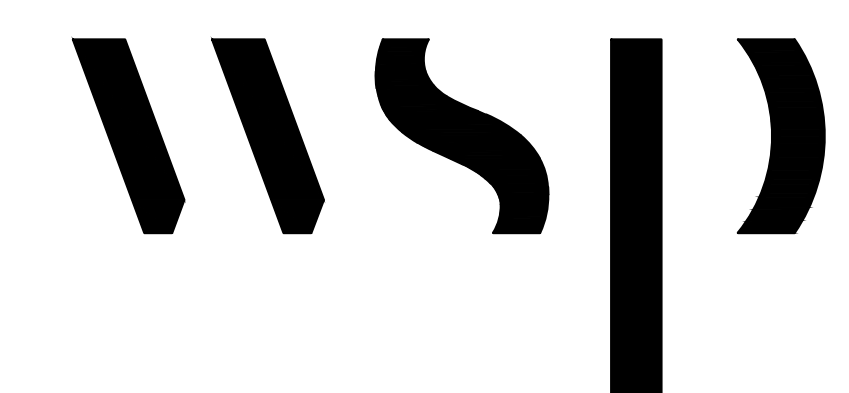
MECHANICAL

M-401	S UNIT SPRINKLER HVAC AND HYDRONIC DEMOLITION PLANS
M-402	S UNITS PLUMBING AND SPRINKLER LAYOUTS
M-403	S UNIT HYDRONIC AND HVAC LAYOUTS

ELECTRICAL

E-500	KEY PLAN AND LEGEND
E-501	DRY CELL DEMOLITION
E-502	DRY CELL LIGHTING AND POWER/SYSTEM LAYOUT
E-503	ELECTRICAL BASEMENT LAYOUT PANEL SCHEDULE, SERVICE AND CCTV SCHEMATICS

ARCHITECTURE | 49



- LEGEND:**
- (AXX) GRID BUBBLE
 - XXX CELL NUMBER
 - EXISTING PARTITION TO REMAIN
 - EXISTING DOOR TO REMAIN
 - EXISTING TOILET TO REMAIN
 - FD (E) EXISTING FLOOR DRAIN TO REMAIN*
 - (E) EXISTING INSTITUTIONAL PENDANT SPRINKLER HEAD TO REMAIN*
 - (E) EXISTING STANDARD PENDANT SPRINKLER HEAD TO REMAIN*
 - EXISTING FLUORESCENT LIGHT FIXTURE TO REMAIN*
 - EXISTING AIR DIFFUSER TO REMAIN*
 - EXISTING SMOKE DETECTOR TO REMAIN*
 - EXISTING WALL MOUNTED EMERGENCY LIGHTING TO REMAIN*
 - FIRE ALARM EXISTING TO REMAIN*
 - FIRE BELL EXISTING TO REMAIN*
 - EXISTING PARTITION TO BE REMOVED
 - EXISTING CEILING TILE TO BE REMOVED
 - EXISTING DOOR TO BE REMOVED/RELOCATED
 - FD (X) EXISTING FLOOR DRAIN TO BE REMOVED*
 - (X) EXISTING INSTITUTIONAL PENDANT SPRINKLER HEAD TO BE REMOVED*
 - (X) EXISTING STANDARD PENDANT SPRINKLER HEAD TO BE REMOVED*
 - EXISTING FLUORESCENT LIGHT FIXTURE TO BE REMOVED*
 - EXISTING AIR DIFFUSER TO BE REMOVED*
 - EXISTING SMOKE DETECTOR TO BE REMOVED AND REINSTATED*
 - EXISTING WALL MOUNTED EMERGENCY LIGHTING TO BE REMOVED AND REINSTATED*
 - EXISTING FIRE ALARM TO BE REMOVED AND REINSTATED*
 - EXISTING FIRE BELL TO BE REMOVED AND REINSTATED*
 - NEW STEEL STUD WALL (P2)
 - NEW BLOCK WALL (P1, P4)
 - NEW TOILET
 - FD NEW FLOOR DRAIN*
 - NEW INSTITUTIONAL SIDEWALL SPRINKLER HEAD*
 - NEW INSTITUTIONAL PENDANT SPRINKLER HEAD*
 - NEW STANDARD PENDANT SPRINKLER HEAD*
 - NEW LED LIGHT FIXTURE*
 - NEW LED WALL MOUNTED LIGHT FIXTURE*
 - NEW DOOR
 - NEW SUPPLY AND RETURN DUCTS*

- BUILDING ASSEMBLIES:**
- (P1) 190mm CONCRETE BLOCK WALL, GROUT ALL COURSE
REBAR REINFORCEMENT AT 400mm O.C.
 - (P2) 150mm x .91mm STEEL STUD AT 300mm O.C. SPACING TO FRAME AROUND SHOWER UNIT
* PROVIDE MINERAL WOOL INSULATION TO SUIT THICKNESS OF STUDS AND FURRING CHANNELS AT 400mm O.C. TO SECURE INSULATION AROUND SHOWER UNIT ONLY.
 - (P2B) 2.7mm STEEL SHEET PANEL
EXPANDED WIRE MESH WELDED TO METAL STUDS
150mm x .91mm STEEL STUD AT 300mm O.C. SPACING
* PROVIDE STAINLESS STEEL SHEET PANEL AND MINERAL WOOL INSULATION TO SUIT THICKNESS OF STUDS AND FURRING CHANNELS AT 400mm O.C. TO SECURE INSTALLATION AROUND SHOWER UNIT ONLY.
 - (P4) 140mm CONCRETE BLOCK WALL, GROUT ALL COURSE
REBAR REINFORCEMENT AT 400mm O.C.

NOTES:

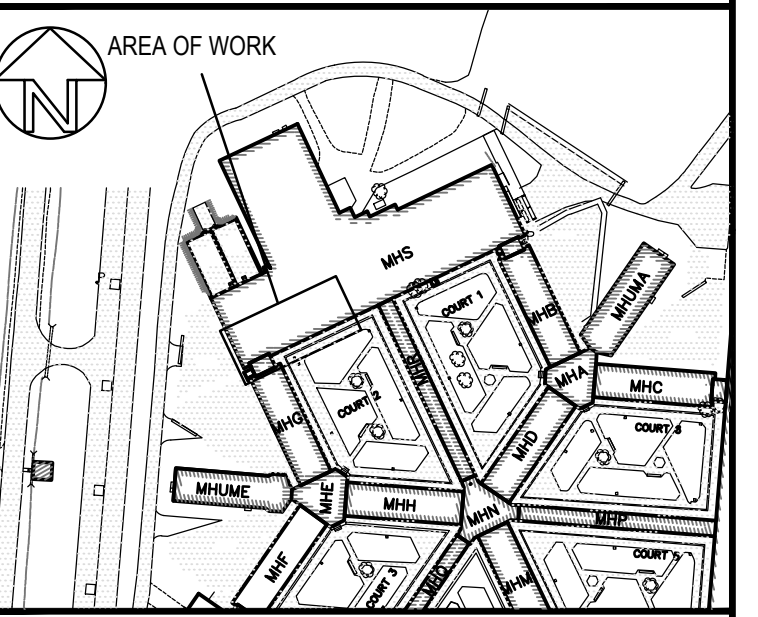
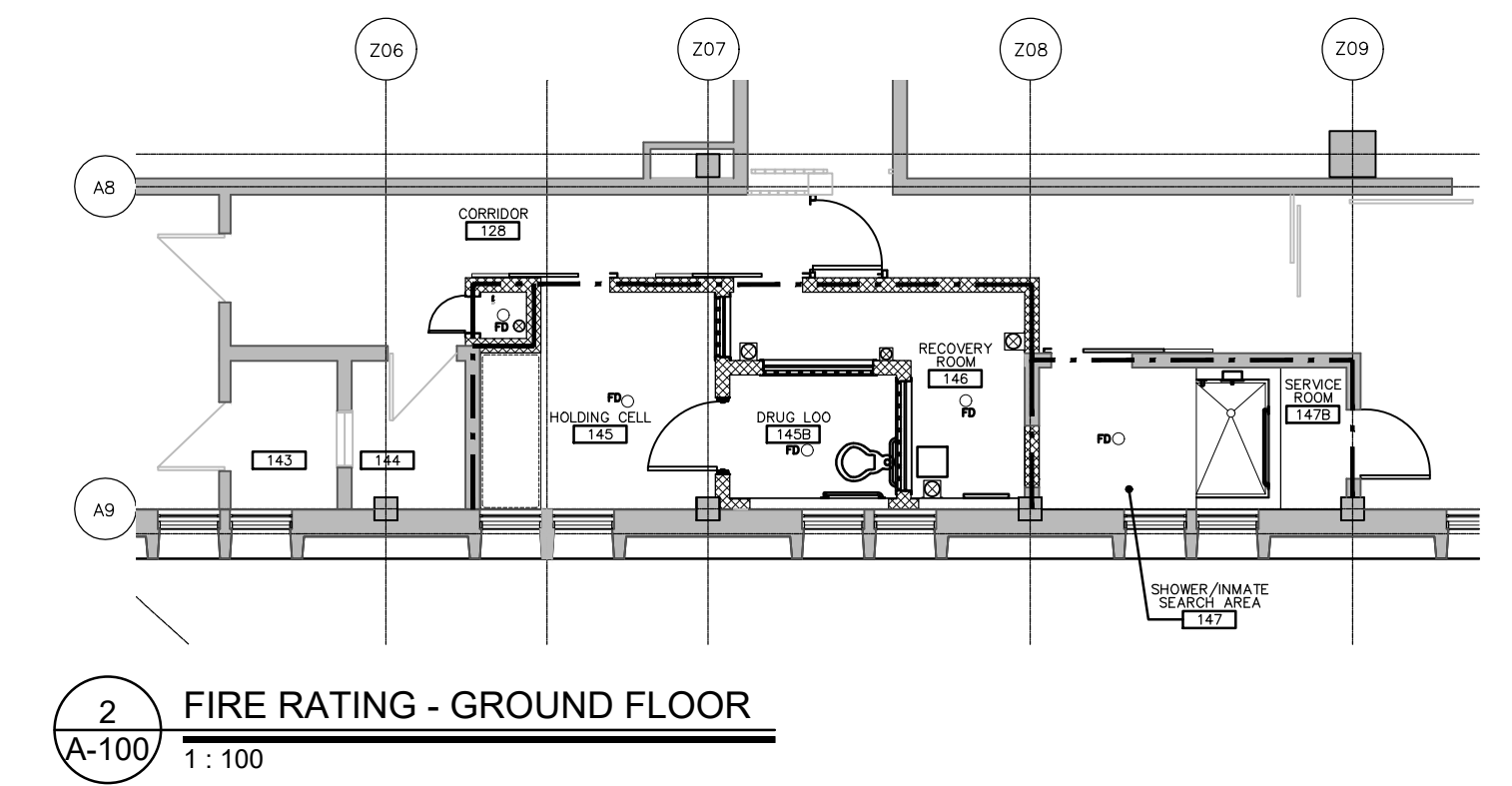
1. ALL PARTITIONS TO BE CONSTRUCTED TO THE UNDERSIDE OF STRUCTURE UNLESS OTHERWISE NOTED.

FIRE RATING SCHEDULE & LEGEND

FLOORS / CEILINGS: 2 HRS. — — — — —

WALLS: 1 HR. — — — — —

- GENERAL NOTES:**
- DO NOT TO SCALE DRAWINGS.
 - REFER TO DESIGNATED SUBSTANCE REPORT/SURVEYS AND ASSOCIATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION ON ABATEMENT.
 - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
 - CONTRACTOR CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
 - MECHANICAL AND ELECTRICAL WORK MAY BE REQUIRED IN AREAS LOCATED OUTSIDE OF THE SCOPE OF WORK. REFER TO MECHANICAL AND ELECTRICAL FOR COMPLETE EXTENT OF REMOVALS AND UPGRADES. SCHEDULE ADDITIONAL WORK WITH DEPARTMENTAL REPRESENTATIVE AND COORDINATE INSTALLATION OF CONSTRUCTION HOARDING AT EACH LOCATION WHERE WORK IS PROCEEDING.
 - REFER TO STRUCTURAL, MECHANICAL & ELECTRICAL DRAWINGS FOR EXTENT OF REMOVALS AND UPGRADES.
 - ALL SUBS TO BE SCANNED PRIOR TO SAW CUTTING / CORING.
 - ALL WALLS AND CEILINGS WITHIN THE SCOPE OF WORK ARE TO BE PATCHED, REFINISHED & PAINTED TO MATCH ORIGINAL UP TO THE NEAREST INTERSECTION. PAINT AFTER COMPLETION OF WORK. COLOUR TO BE SELECTED BY DEPARTMENTAL REPRESENTATIVE.
 - PROVIDE NEW CUT OPENINGS IN WALLS AND FLOORS AS REQUIRED TO ACCOMMODATE INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. LOCATE OPENINGS TO AVOID EXISTING STRUCTURAL ELEMENTS. SEAL ALL NEW PENETRATIONS IN EXISTING WALLS AND FLOORS TO ACHIEVE CONTINUOUS FRR AS PER F.R.R. SCHEDULE/PLAN AFTER INSTALLATION OF NEW MECHANICAL AND ELECTRICAL ITEMS. REFER TO MECHANICAL AND ELECTRICAL.
 - PAINT ALL NEW WALLS AND CEILINGS. PAINT COLOUR IS TO BE SELECTED BY DEPARTMENTAL REPRESENTATIVE.
 - SEAL ALL EXISTING PENETRATIONS IN WALLS AND FLOORS TO ACHIEVE CONTINUOUS FRR AS PER FIRE RATING SCHEDULE.
 - ALL WORK SHALL CONFORM TO THE LATEST EDITION OF ALL APPLICABLE CODES.
 - CONTRACTOR MUST COMPLY WITH LOCAL BY-LAWS, CANADIAN CONSTRUCTION SAFETY CODE AND ALL REGULATIONS SET BY AUTHORITIES HAVING JURISDICTION. IN CASE OF CONFLICT OR DISCREPANCY, THE MORE STRINGENT REQUIREMENTS SHALL APPLY.
 - THE WORD "PROVIDE" SHALL MEAN "SUPPLY & INSTALL". CONTRACTOR SHALL PROVIDE ALL REQUIRED EQUIPMENT AND PARTS.
 - LOCATIONS OF ALL EQUIPMENT AND PIPES ARE APPROXIMATE AND ARE SHOWN AS INDICATED ON REFERENCE DRAWINGS SUPPLIED BY DEPARTMENTAL REPRESENTATIVE. THE LOCATIONS ARE GENERALLY CONSISTENT WITH THEIR PLACEMENT ON SITE BUT SHOULD BE CONSIDERED AS ONLY DIAGRAMMATIC. THE DEPARTMENTAL REPRESENTATIVE IS NOT RESPONSIBLE FOR THE ACCURACY OF THE DEPICTION OF THE LOCATION OF THE EXISTING PIPES AND EQUIPMENT. CONTRACTOR TO VERIFY THE EXACT EQUIPMENT AND PIPES LOCATION PRIOR TO THE COMMENCEMENT OF WORK.
 - CONTRACTOR TO PROTECT ALL SURFACES AND EQUIPMENT TO REMAIN IN ORDER MINIMIZE DAMAGE DURING DEMOLITION.
 - POWER REQUIREMENTS FOR CONSTRUCTION PURPOSES TO BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE SHOP DRAWINGS IN ACCORDANCE WITH SPECIFICATION SECTION 01 33 00.
 - ALL CONDUIT EXPOSED WITHIN THE ROOMS 145, 145B AND 147 SHALL BE COVERED BY METAL OUTLET COVER, REFER TO NOTE C27 ON 2/A-102 FOR ADDITIONAL INFORMATION.



1 SITE PLAN
A-100 NTS

ONTARIO BUILDING CODE / NATIONAL BUILDING CODE INFORMATION		FIRM NAME: ARCHITECTURE 49 INC.	
CERTIFICATE OF PRACTICE NO.: 5312		NAME OF PROJECT: RENOVATIONS TO "S" RANGE - STRUCTURED INTERVENTION UNIT	
LOCATION: 5775 BATH RD., BATH, ON		THE ARCHITECT & SEAL IN THE TITLE BLOCK HAS EXERCISED RESPONSIBLE CONTROL WITH RESPECT TO DESIGN ACTIVITIES. THE ARCHITECT'S SEAL NUMBER IS THE ARCHITECT'S BCDN.	
ITEM	ONTARIO BUILDING CODE DATA MATRIX DIVISION B, PARTS 3 & 9	O.B.C. REFERENCE	N.B.C. REFERENCE
1	PROJECT DESCRIPTION: INTERIOR DEMOLITION / ROOFING AND MECHANICAL MODIFICATIONS <input type="checkbox"/> NEW <input type="checkbox"/> ADDITION <input checked="" type="checkbox"/> ALTERATION <input type="checkbox"/> CHANGE OF USE	<input checked="" type="checkbox"/> PART 11 11.1 TO 11.4	<input checked="" type="checkbox"/> PART 3 1.1.2[A]
2	MAJOR OCCUPANCY(S): GROUP B1		3.1.2.1.(1)
3A	BUILDING AREA EXIST: 19,180m ² NEW: NA TOTAL: 19,180 m ²		1.4.1.2[A]
4	GROSS AREA EXIST: 57,540 m ² NEW: NA TOTAL: 57,540 m ²		1.4.1.2[A]
5	NUMBER OF STOREYS: 3 ABOVE GRADE: 2 BELOW GRADE: 1		1.4.1.2[A] & 3.2.1.1
6	NUMBER OF STREETS / FIRE FIGHTER ACCESS: 4		3.2.5.6
7	BUILDING CLASSIFICATION: 3.2.2.36 GROUP - B1 ANY HEIGHT, ANY AREA		3.2.2.20-83
8	SPRINKLER SYSTEM PROPOSED <input checked="" type="checkbox"/> ENTIRE BUILDING* <input type="checkbox"/> BASEMENT ONLY <input type="checkbox"/> IN LIEU OF ROOF RATING <input type="checkbox"/> NOT REQUIRED		3.2.2.17 INDEX
9	STANDPIPE REQUIRED <input checked="" type="checkbox"/> YES* <input type="checkbox"/> NO		3.2.5.8
10	FIRE ALARM REQUIRED <input checked="" type="checkbox"/> YES* <input type="checkbox"/> NO		3.2.4
11	WATER SERVICE / SUPPLY IS ADEQUATE <input checked="" type="checkbox"/> YES* <input type="checkbox"/> NO		3.2.5.7
12	HIGH BUILDING <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO		3.2.6
13	PERMITTED CONSTRUCTION <input type="checkbox"/> COMBUSTIBLE <input checked="" type="checkbox"/> NON-COMBUSTIBLE <input type="checkbox"/> BOTH		3.2.2.20-83
14	MEZZANINE(S) AREA EXISTING: N/A NEW: N/A		3.2.1.1(4)
15	(m ²) OCCUPANT LOAD BASED ON 8 m ² /PERSON DESIGN OF BUILDING 1st FLOOR AT AREA OF WORK: OCCUPANCY B1 LOAD N/A* PERSONS 2nd FLOOR AT AREA OF WORK: OCCUPANCY B1 LOAD N/A* PERSONS		3.1.17
16	BARRIER-FREE DESIGN <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO (EXPLAIN) 9.5.2.1(2)		3.8
17	HAZARDOUS SUBSTANCES <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		3.3.1.2 & 3.3.1.20
18	REQUIRED FIRE RESISTANCE RATING (FRR) HORIZONTAL ASSEMBLIES LISTED DESIGN No. OR DESCRIPTION (SG-2) FLOORS: 2 HRS. - ROOF: N/A - MEZZANINE: 1 HRS. - FRR OF SUPPORTING MEMBERS LISTED DESIGN No. OR DESCRIPTION (SG-2) FLOORS: 2 HRS. - ROOF: N/A - MEZZANINE: 1 HRS. -		3.2.2.20-83 & 3.2.1.4 3.2.2.36
19	SPATIAL SEPARATION - CONSTRUCTION OF EXTERIOR WALLS WALL AREA OF EBF (m ²) L.D. (m) L/H OR H/L PERMITTED PROPOSED FRR (HOURS) MAX. % OF OPENINGS % OF OPENINGS LISTED DESIGN OR DESCRIPTION	3.2.3	3.2.3
REAR	NORTH	NO CHANGE	
FRONT	SOUTH	NO CHANGE	
STREET	EAST	NO CHANGE	
SIDE YARD	WEST	NO CHANGE	

* NOTE: PROJECT IS LIMITED TO THE RECONFIGURATION OF EXISTING OFFICES TO SUIT NEW CONFIGURATION OF THE RELOCATED DRY CELL AND SHOWERS. THIS INCLUDES THE RECONFIGURATION OF SERVICES AS REQUIRED TO SUIT THE NEW CONFIGURATION. NO OTHER CHANGES TO THE BUILDING ARE INCLUDED IN THIS SCOPE OF WORK.

revision	description	date
1	ISSUED FOR TENDER	2021-06-22

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

Detail No.	No. du détail
A	drawing no. - où détail exigé
B	drawing no. - où détail exigé
C	drawing no. - où détail exigé

project title
titre du projet
MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON K0H 1G0
DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT

drawing title
titre du dessin
SITE PLAN, LEGEND, BUILDING ASSEMBLIES AND GENERAL NOTES

drawn by
dessiné par
AK

designed by
conçue par
AD

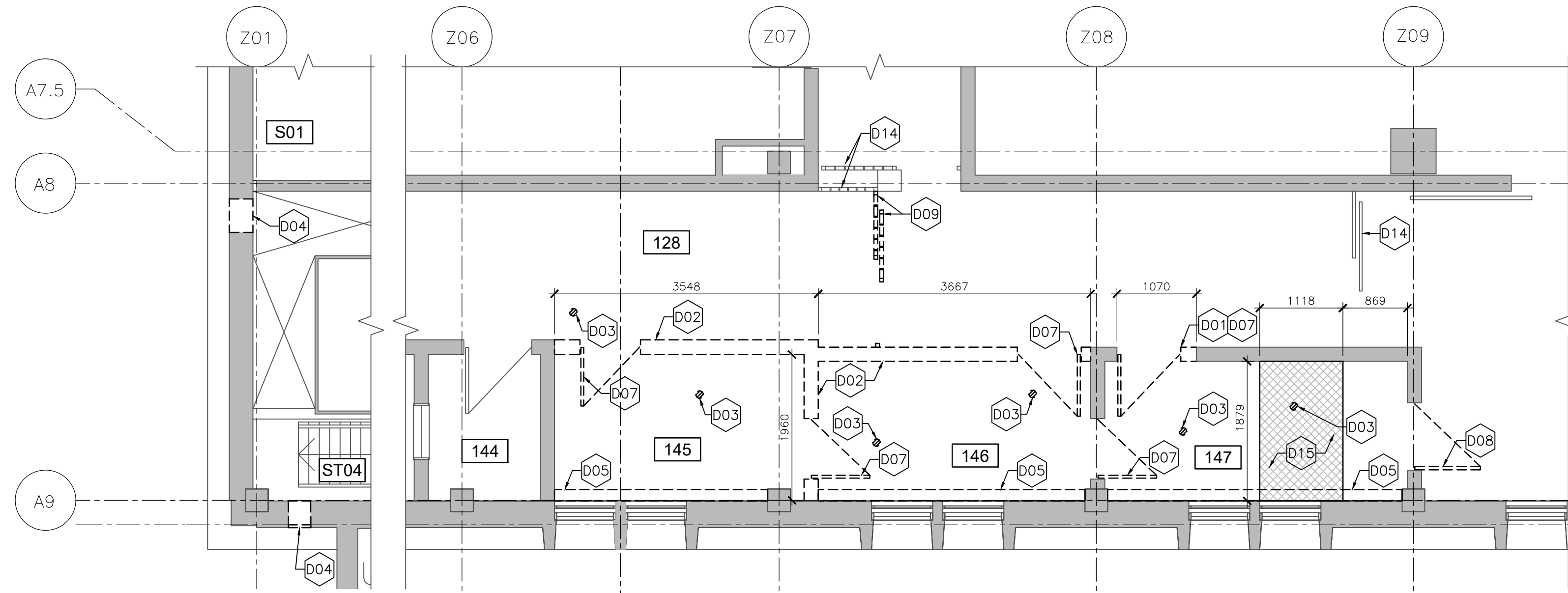
approved by
approuvé par
AD

bid
offre
project manager
administrateur de projets

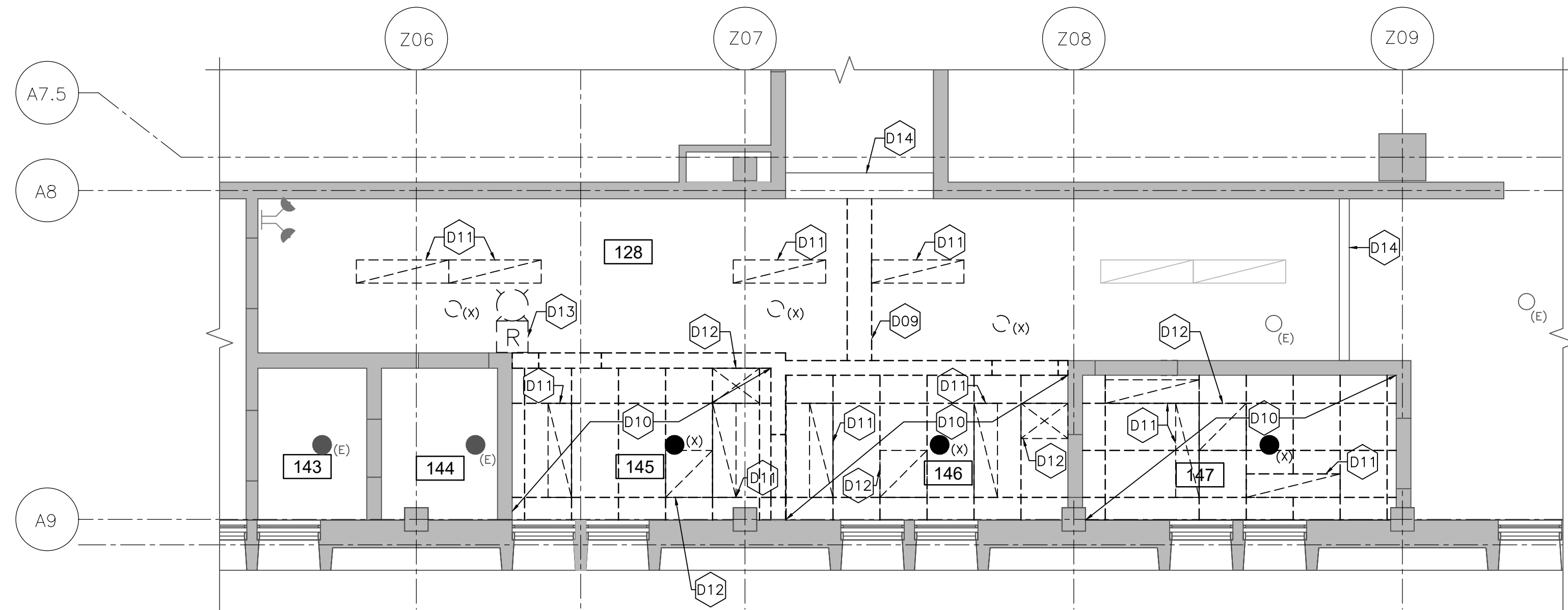
project date
date du projet
2021-02-19

project no.
no. du projet
R.106776.001

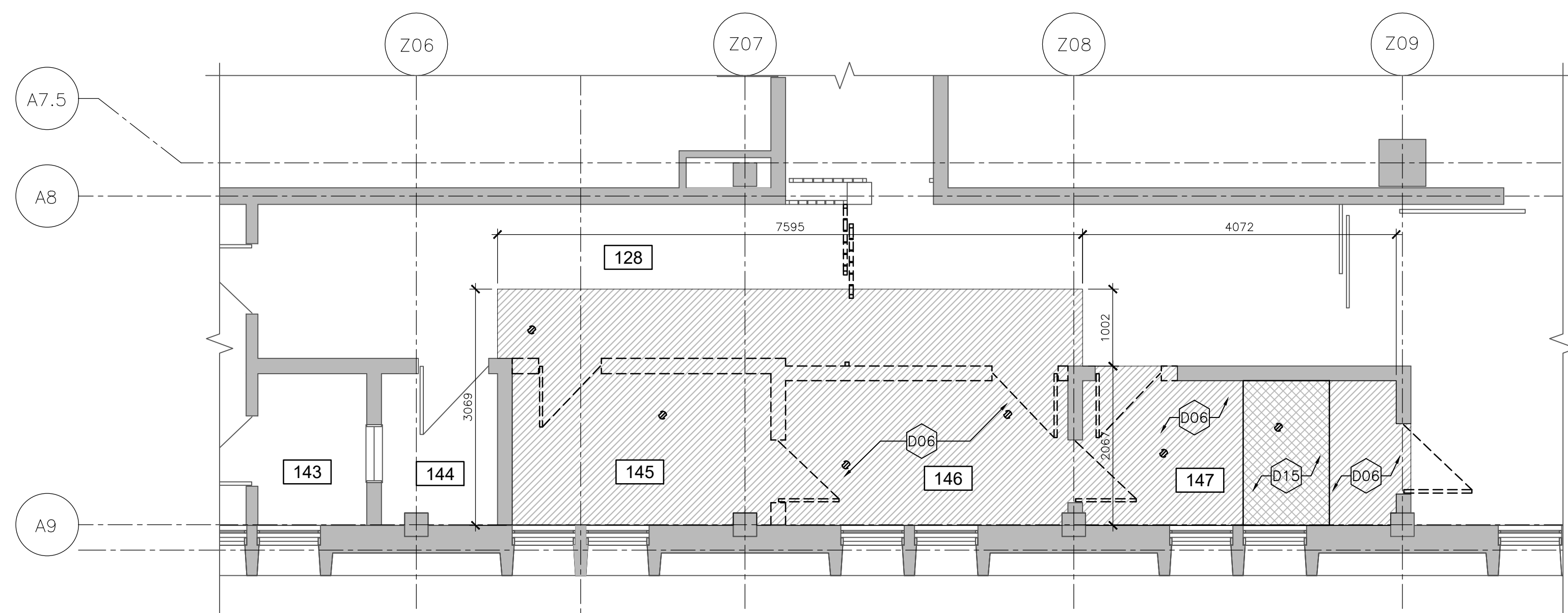
drawing no.
dessinée no.
A-100



1 DEMOLITION FLOOR PLAN
A-101 1:50



2 DEMOLITION REFLECTED CEILING PLAN
A-101 1:50



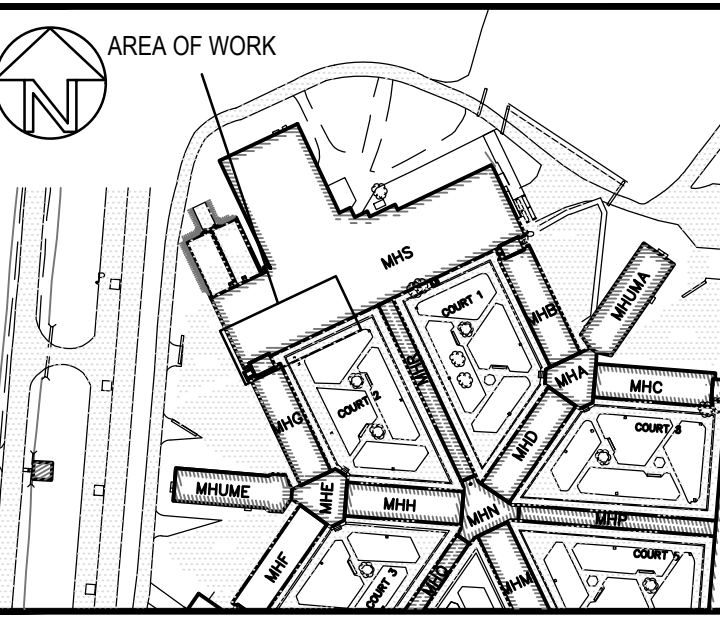
3 DEMOLITION FLOOR FINISH PLAN
A-101 1:50

GENERAL DEMOLITION NOTES:

- REMOVE ALL ELECTRICAL AND DATA OUTLETS. REFER TO ELECTRICAL FOR ADDITIONAL INFORMATION.
- REMOVE ALL EXISTING VENTILATION GRILLS TO BE REPLACED WITH NEW SECURITY GRILLS. REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
- REMOVE ALL EXISTING DOORS AND GATES MARKED FOR DEMOLITION AND RETURN TO DEPARTMENTAL REPRESENTATIVE.
- DO NOT TO SCALE DRAWINGS.
- MECHANICAL AND ELECTRICAL WORK MAY BE REQUIRED IN AREAS LOCATED OUTSIDE OF THE SCOPE OF WORK. SCHEDULE ADDITIONAL WORK WITH DEPARTMENTAL REPRESENTATIVE AND COORDINATE INSTALLATION OF CONSTRUCTION HOARDING AT EACH LOCATION WHERE WORK IS PROCEEDING.
- THOROUGHLY INSPECT ALL AREAS TO REMAIN. PATCH AND REPAIR ANY VISIBLE DAMAGE. NEW FINISH TO MATCH EXISTING ADJACENT SURFACE.
- PROTECT ALL EXISTING MECHANICAL AND ELECTRICAL EQUIPMENT TO REMAIN.
- SITE CONFIRM ALL EXISTING CONDITIONS AND VERIFY ALL DIMENSIONS BEFORE START OF WORK. CONTRACTOR IS TO CONTACT DEPARTMENTAL REPRESENTATIVE IMMEDIATELY IN THE EVENT OF ANY CONFLICT.
- REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL & CIVIL DRAWINGS FOR EXTENT OF REMOVALS AND UPGRADES.
- ALL SLABS TO BE SCANNED PRIOR TO SAW CUTTING AND CORING.
- PATCH AND REPAIR ALL EXISTING WALLS, CONCRETE SLABS AND CURBS AFTER DEMOLITION. NEW FINISH COLOURS AND MATERIALS TO MATCH EXISTING ADJACENT SURFACES. REFER TO SPECIFICATIONS AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS FOR ADDITIONAL WORK NOT INDICATED ON THIS DRAWING. CONTRACTOR TO COORDINATE SPECIFICATIONS AND DRAWINGS FOR COMPLETE SCOPE OF WORK.
- ADDITIONAL WORK NOT INDICATED ON THIS DRAWING MAY BE REQUIRED. COORDINATE ALL DEMOLITION AND NEW WORK WITH STRUCTURAL, MECHANICAL, ELECTRICAL AND CIVIL DRAWINGS. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR FULL SCOPE OF WORK. (REMOVALS AND REINSTATEMENT)

DEMOLITION NOTES:

- D01 REMOVE EXISTING CONCRETE BLOCK TO PROVIDE NEW OPENING. SIZE OF OPENING TO SUIT NEW DOOR/GATE. REFER TO STRUCTURAL FOR LINTEL.
- D02 REMOVE EXISTING CONCRETE BLOCK WALL INCLUDING ALL REINFORCEMENT. GRIND REBAR TO BE FLUSH WITH FINISHED FLOOR SLAB.
- D03 CORE SLAB TO ALLOW INSTALLATION OF NEW MECHANICAL SERVICES. REFER TO MECHANICAL FOR ADDITIONAL INFORMATION. SEE STRUCTURAL FOR DETAILS ON SLAB PENETRATION WORK.
- D04 REMOVE EXISTING EXTERIOR WALL ASSEMBLY INCLUDING CONCRETE BLOCK, INSULATION AND PRECAST CONCRETE PANEL, AS REQUIRED FOR NEW MECHANICAL AND STRUCTURAL WORK. REFER TO MECHANICAL AND STRUCTURAL FOR REQUIRED SIZE OF NEW OPENING.
- D05 REMOVE EXISTING HEATER/RADIATOR. REFER TO MECHANICAL FOR DETAILS OF SERVICE REMOVAL.
- D06 REMOVE EXISTING TILE AND SHEET FLOORING. PATCH AND MAKE GOOD SLAB TO RECEIVE NEW FLOOR FINISH. REFER TO DRAWINGS 1/A02 AND 3/A102 FOR EXTENT OF REMOVAL.
- D07 REMOVE EXISTING DOORS AND FRAMES.
- D08 REMOVE EXISTING DOOR, FRAME TO REMAIN.
- D09 REMOVE EXISTING EXPANDED METAL GATE FOR NEW WORK TO BE COMPLETED. REFER TO ELECTRICAL FOR EXTENT OF CONTROL REMOVAL.
- D10 REMOVE EXISTING CEILING TILES AND T-BAR CEILING.
- D11 REMOVE AND SALVAGE EXISTING LIGHTS, REFER TO ELECTRICAL.
- D12 REMOVE AND SALVAGE EXISTING SUPPLY AND RETURN DIFFUSERS, REFER TO MECHANICAL.
- D13 REMOVE AND SALVAGE WALL MOUNTED EMERGENCY LIGHTING.
- D14 EXISTING GATE TO REMAIN.
- D15 REMOVE CONCRETE TOPPING FOR INSTALLATION OF NEW ACCESSIBLE SHOWER.



1	ISSUED FOR TENDER	2021-06-22
revision	description	date

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A	Detail No.
B	No. du détail
C	drawing no. - where detail required / dessin no. - où détail exigé
	drawing no. - where detailed / dessin no. - où détaillé

project title
titre du projet
**MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON KOH 1G0
DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT**

drawing title
titre du dessin
**DEMOLITION FLOOR PLAN AND
DEMOLITION REFLECTED
CEILING PLAN**

drawn by
dessiné par **AK**

designed by
conc. par **AD**

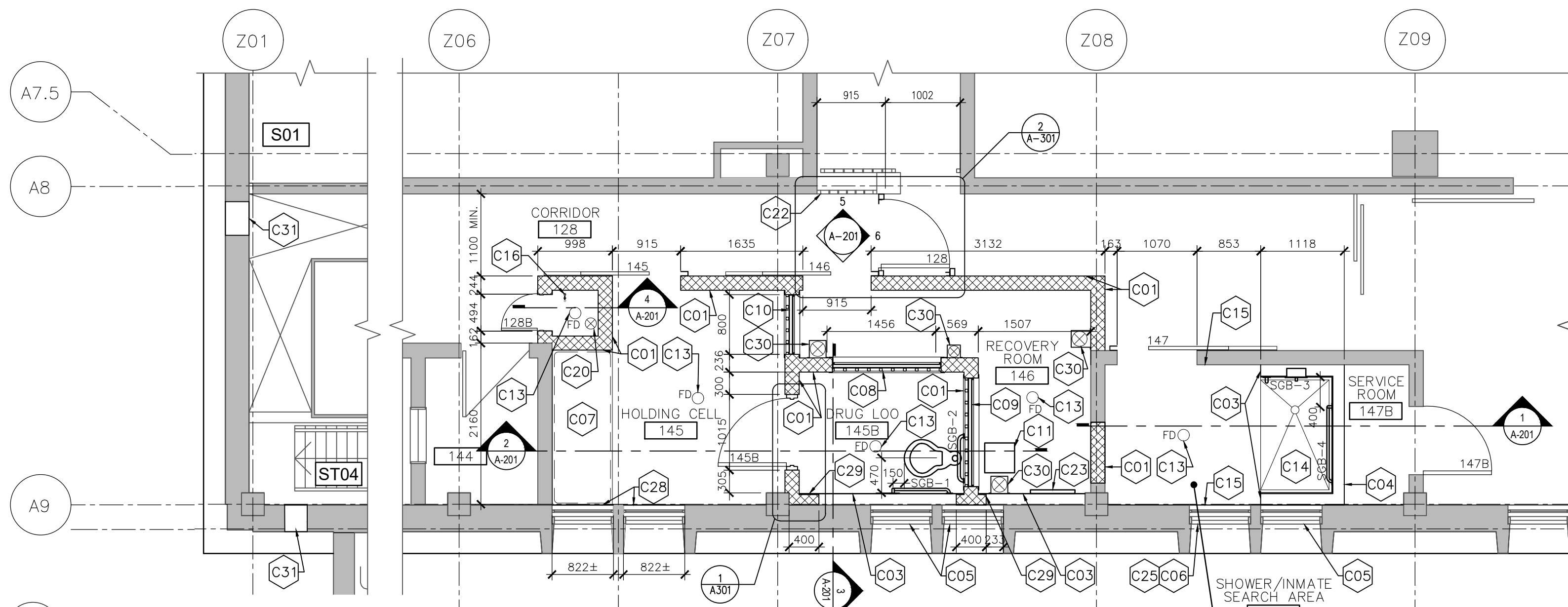
approved by
approuvé par **AD**

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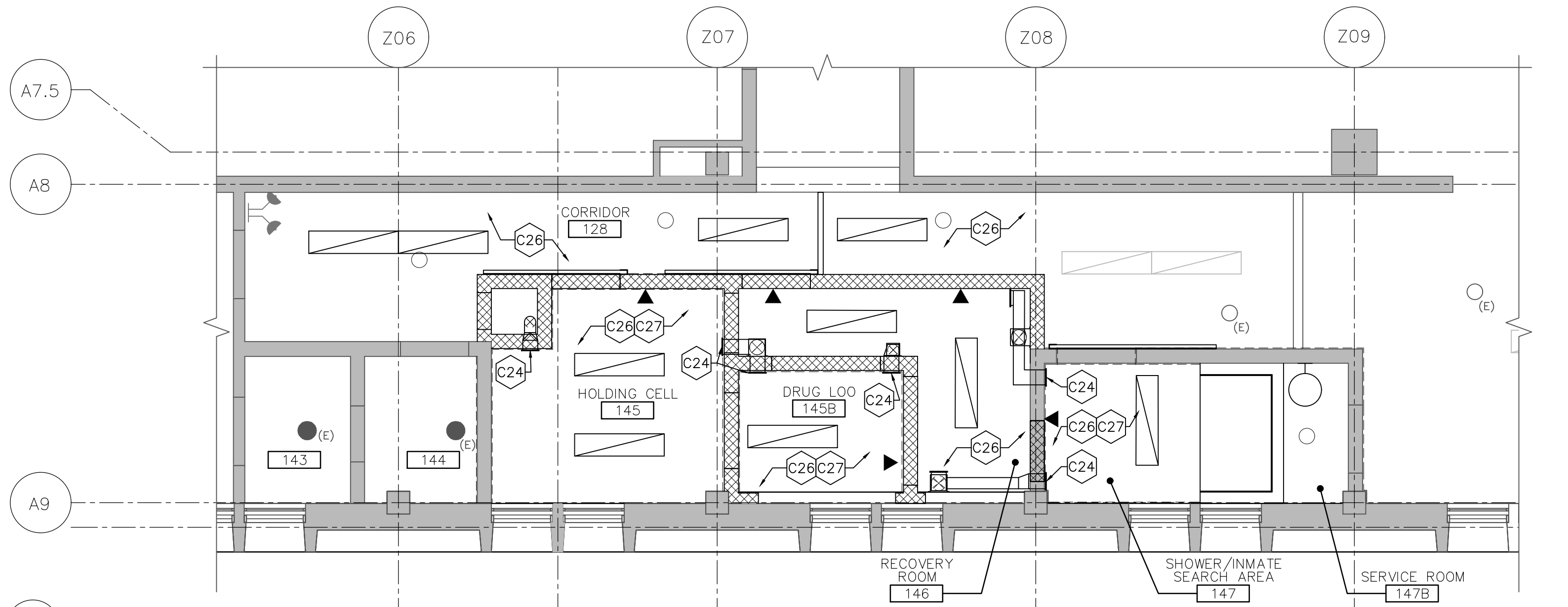
project date
date du projet **2021-02-19**

project no.
no. du projet **R.106776.001**

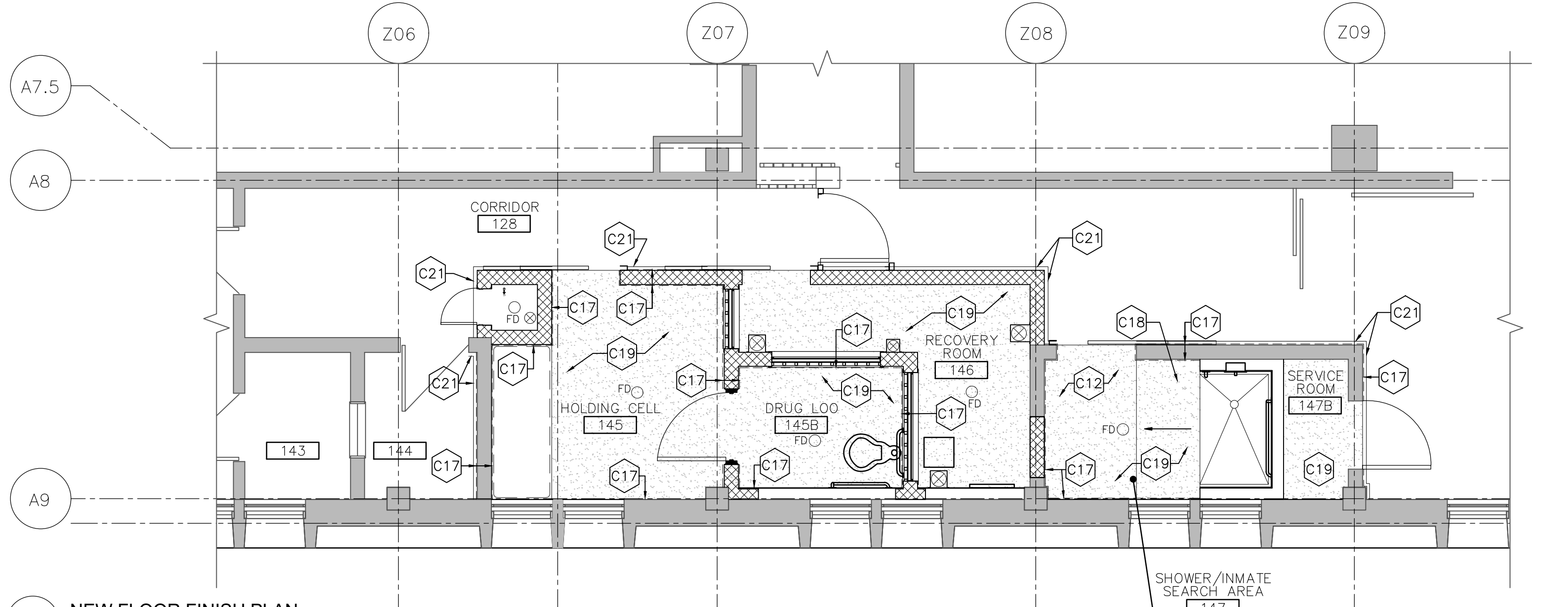
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dessiné no. **A-101**



1 NEW FLOOR PLAN
A-102 1:50



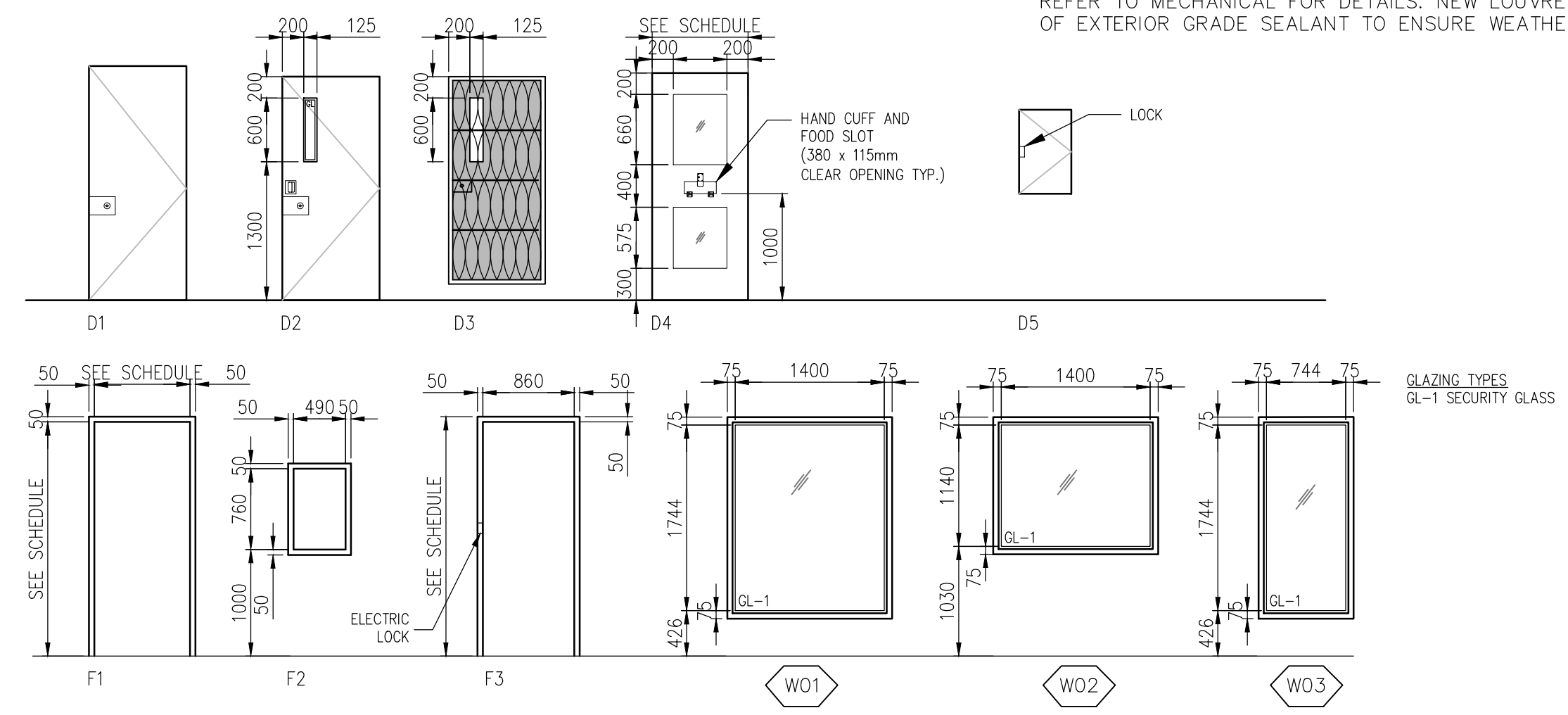
2 NEW REFLECTED CEILING PLAN
A-102 1:50



3 NEW FLOOR FINISH PLAN
A-102 1:50

NEW CONSTRUCTION NOTES:

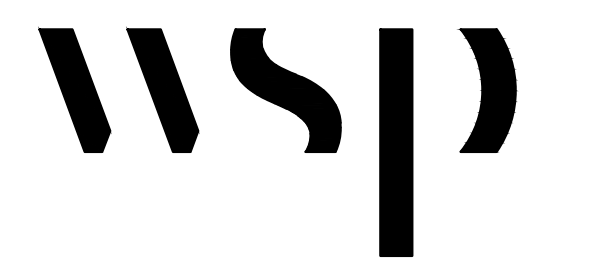
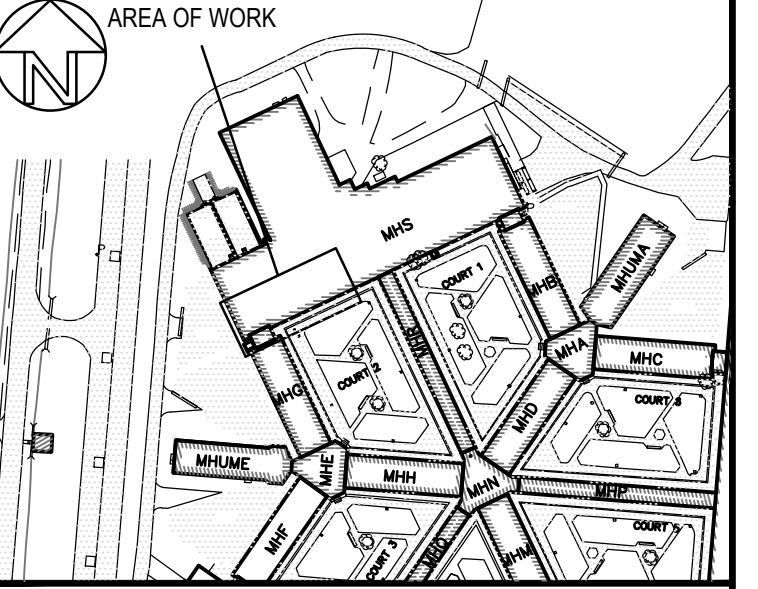
- C01 NEW 190mm CONCRETE BLOCK WALL. FILL ALL CORES WITH GROUT AND REINFORCE VERTICALLY AT 400mm O.C. (P1). REFER TO STRUCTURAL FOR REINFORCEMENT DETAILS.
- C02 NOT USED.
- C03 NEW STEEL INFILL PARTITION (P2c). NEW PARTITION TO EXTEND FROM TOP OF FINISHED FLOOR TO UNDERSIDE OF STRUCTURE ABOVE, ±2751mm. STAINLESS STEEL PANELS TO BE USED IN SHOWER. SECURE EDGE OF STAINLESS STEEL SHEET TO NEW SHOWERS.
- C04 PROVIDE P2 PARTITION AROUND SHOWER UNIT TO PROVIDE REQUIRED REINFORCEMENT FOR SHOWER UNIT, TYP.
- C05 MODIFY WINDOW TO ENSURE OPERABLE PORTION OF THE WINDOW IS FIXED WITH A 32x32x3mm HOLLOW ALUMINUM BAR SPANNING WIDTH OF OPERABLE TRACK AND SECURED WITH SAFETY SCREWS AT 125mm O.C. TO BOTTOM OF FRAME. PAINT WINDOW GLASS TO OBSCURE VISIBILITY TO WALL CAVITY INFILL BETWEEN SECURITY GRILL AND GLASS WITH MINERAL WOOL INSULATION.
- C06 MODIFY WINDOW TO ENSURE OPERABLE PORTION OF THE WINDOW IS FIXED WITH A 32x32x3mm HOLLOW ALUMINUM BAR SPANNING WIDTH OF OPERABLE TRACK AND SECURED WITH SAFETY SCREWS AT 125mm O.C. TO BOTTOM OF FRAME.
- C07 NEW CONCRETE BED, REFER TO DETAIL 8/A-201.
- C08 NEW VIEWING WINDOW WITH GRILLE BARRIER W01 ON INMATE SIDE, REFER TO SPECIFICATIONS AND WINDOW SCHEDULE FOR ADDITIONAL DETAILS.
- C09 NEW VIEWING WINDOW WITH GRILLE BARRIER W02 ON INMATE SIDE, REFER TO SPECIFICATIONS AND WINDOW SCHEDULE FOR ADDITIONAL DETAILS.
- C10 NEW VIEWING WINDOW WITH GRILLE BARRIER W03 ON INMATE SIDE, REFER TO SPECIFICATIONS AND WINDOW SCHEDULE FOR ADDITIONAL DETAILS.
- C11 RECOVERY UNIT, REFER TO MECHANICAL FOR DUCT/VENT DETAILS.
- C12 NEW CONCRETE TOPPING INSTALLED OVER EXISTING CONCRETE SLAB. PROVIDE TIE TO EXISTING TOPPING AS DETAIL BY STRUCTURAL. TOPPING TO HAVE A MAX. SLOPE OF 2% TO THE FLOOR DRAIN. PROVIDE NEW EPOXY FLOORING OVER NEW TOPPING.
- C13 FLOOR DRAIN, REFER TO DETAIL 7/A-301 (TYPICAL).
- C14 NEW STAINLESS STEEL ACCESSIBLE SHOWER, REFER TO MECHANICAL FOR DETAILS.
- C15 NEW HOOKS FOR PRIVACY CURTAIN. HOOKS TO BE MOUNTED 1030mm ABOVE THE FINISHED FLOOR.
- C16 PROVIDE CONNECTIONS FOR NEW HOSE BIB, REFER TO MECHANICAL FOR DETAILS. REFER TO DETAIL 4/A-201 FOR ARCHITECTURAL.
- C17 INSTALL NEW SHEET STEEL FINISH OVER NEW/EXISTING CONCRETE BLOCK WALL REFER TO DETAIL 9/A-301. SHEET STEEL IN SHOWER/INMATE SEARCH AREA ROOM 147 TO BE STAINLESS STEEL.
- C18 PROVIDE NEW SLOPE FLOOR WITH CONCRETE TOPPING TO ENSURE THAT A MINIMUM OF 1% SLOPE IS PROVIDED TO FLOOR DRAIN TO EDGE OF SHOWER STALL.
- C19 NEW EPOXY FLOORING C/W COVE BASE. PROVIDE TRANSITION TO EXISTING RESILIENT SHEET FLOORING. REFER TO SPEC FOR ADDITIONAL INFORMATION.
- C20 LOCATION OF SUPPLY AND RETURN AIR DUCTS FROM BASEMENT. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS.
- C21 PROVIDE 152mm RUBBER FLOOR BASE TO NEAREST INTERSECTION.
- C22 PROVIDE WELDED STEEL PLATE TO EXISTING GATE. REVIEW LOCATION OF GATE IN PLAN ON SITE. CLEARLY INDICATE ALL FINAL LOCATIONS AND SITE MEASUREMENTS ON SHOP DRAWINGS.
- C23 597x335mm MONITOR AND BRACKET TO BE MOUNTED SO THAT THE CENTRE LINE OF THE MONITOR IS 1600mm ABOVE FINISH FLOOR. SEE ELECTRICAL FOR DETAILS. PROVIDE WOOD BLOCKING TO SUIT THE ENTIRE SIZE OF NEW MONITOR. BLOCKING TO BE CONSTRUCTED WITH 15.9mm THICK PLYWOOD SUPPORTED BY 38x39mm WOOD STUD FRAMING WITH STUDS SPACED NO MORE THAN 200mm O.C. SECURED TO METAL STUDS.
- C24 LOCATION OF SECURE SUPPLY AND RETURN AIR DIFFUSERS THROUGH BLOCK WALL. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DETAILS.
- C25 PROVIDE EXTERIOR GRADE WINDOW FILM TO ALL VISUAL PANES OF EXISTING GLAZING. ENSURE SURFACE IS CLEANED AND PREPPED FOR NEW FILM.
- C26 PAINT EXISTING CEILING.
- C27 ALL CONDUIT/PIPES EXTENDING FROM DEVICES IN ROOM IS TO BE COVERED WITH SECURITY COVER. PROVIDE 4mm THICK METAL OUTLET COVER OVER CONDUITS FROM DEVICE TO FACE OF INTERIOR WALL. WELD AND ANCHOR TO CEILING. ALL JOINTS TO BE FULLY SEALED. PROFILE TO BE TRAPEZOIDAL, 215mm WIDE x 75mm HIGH. REFER TO ELECTRICAL FOR LOCATIONS OF CONDUIT.
- C28 MODIFY WINDOW TO ENSURE OPERABLE PORTION OF THE WINDOW IS FIXED FROM THE INTERIOR SIDE WITH A 32x32x3mm HOLLOW ALUMINUM BAR SPANNING WIDTH OF OPERABLE TRACK AND SECURED WITH SAFETY SCREWS AT 125mm O.C. TO BOTTOM OF FRAME. PAINT WINDOW GLASS TO OBSCURE VISIBILITY TO WALL CAVITY. INFILL BETWEEN SECURITY GRILL AND GLASS WITH CALCIUM SILICATE INSULATION. PROVIDE 6mm STEEL PLATE CONTINUOUSLY WELDED TO EXISTING 1905mm HIGH WINDOW FRAME. ALL EDGES OF STEEL PLATE TO BE ROUNDED AND FILED TO ENSURE SMOOTH EDGES. CONFIRM DIMENSIONS ON SITE. CONTRACTOR TO CLEARLY INDICATE SITE MEASUREMENTS ON SHOP DRAWINGS.
- C29 NEW 140mm CONCRETE BLOCK WALL. FILL ALL CORES WITH GROUT AND REINFORCE VERTICALLY AT 400mm O.C. (P4). REFER TO STRUCTURAL FOR REINFORCEMENT DETAILS. PROVIDE 12mm SHIM TO SUPPORT METAL PANEL.
- C30 LOCATION OF SUPPLY AND RETURN AIR DUCTS FROM BASEMENT. REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL DETAILS. PROVIDE STAINLESS STEEL ENCLOSURE AROUND METAL DUCT, EXACT SIZE TO BE COORDINATED ON SITE. ROUGHLY 250mm x 250mm BY 2100mm HIGH. PROVIDE 25mm LEG TO ALLOW FOR FASTENING INTO CONCRETE BLOCK WALL WITH SECURE FASTENERS AT 600mm O.C.
- C31 REFER TO STRUCTURAL FOR REPAIR AROUND PRECAST WALL PANEL AND INFILL AROUND NEW OPENING WITH CONCRETE BLOCK WALL AS NEEDED TO WORK AROUND MECHANICAL DUCT. SIZE OF CONCRETE BLOCK TO SUIT EXISTING WALL THICKNESS OF APPROXIMATELY 140mm. INSTALL NEW MECHANICAL LOUVRE. REFER TO MECHANICAL FOR DETAILS. NEW LOUVRE TO BE SET WITHIN FULL BED OF EXTERIOR GRADE SEALANT TO ENSURE WEATHER TIGHTNESS.



DOOR NO.	SIZE	DOOR TYPE	DOOR MAT'L	DOOR FIN	FRAME TYPE	FRAME MAT'L	FRAME FIN	HARDWARE GROUP	GLAZING	FRR	NOTES
128	915x2200x50	D3	METAL	PT	-	STEEL	PT	*	GL1	-	
128B	490x790x50	D5	METAL	PT	F2	HM	PT	5	-	45 MINUTES	REFER TO JAMB DETAIL 8/A-301
145	915x2200x50	D4	METAL	PT	-	STEEL	PT	1	GL1	45 MINUTES	MANUAL SLIDING
145B	1000x2200x50	D1	METAL	PT	F3	STEEL	PT	3	-	45 MINUTES	ELECTRIC RELEASE
146	915x2200x50	D2	METAL	PT	-	STEEL	PT	2	GL1	45 MINUTES	MANUAL SLIDING
147	1070x2200x50	D4	METAL	PT	-	STEEL	PT	1	GL1	45 MINUTES	MANUAL SLIDING
147B	915x2200x50	D1	METAL	PT	EXISTING	-	-	4	-	45 MINUTES	

* REFER TO DETAILS ON A-201 AND A-301 FOR GRILLE CONSTRUCTION AND HARDWARE REQUIREMENTS.

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	FIN.	CLG	FIN.	HEIGHT mm	NOTES
128	CORRIDOR	EXIST	MATCH EXIST.	CONC.BLK./ SHEET STEEL	PT	EXIST CONC.	PT	EXIST	PATCH, REPAIR & MAKE GOOD ANY DAMAGED AREA TO LIKE NEW CONDITION
145	HOLDING CELL	EPOXY	EPOXY	CONC.BLK./ SHEET STEEL	PT	EXIST CONC.	PT	EXIST	
145B	DRUG LOO	EPOXY	EPOXY	CONC.BLK./ SHEET STEEL	PT	EXIST CONC.	PT	EXIST	
146	RECOVERY ROOM	EPOXY	EPOXY	CONC.BLK.	PT	EXIST CONC.	PT	EXIST	
147	SHOWER	EPOXY	EPOXY	CONC.BLK./ STEEL STUD	STAINLESS STEEL	EXIST CONC.	PT	EXIST	
147B	SERVICE ROOM	EPOXY	EPOXY	CONC.BLK./ STEEL STUD	-	EXIST CONC.	-	EXIST	



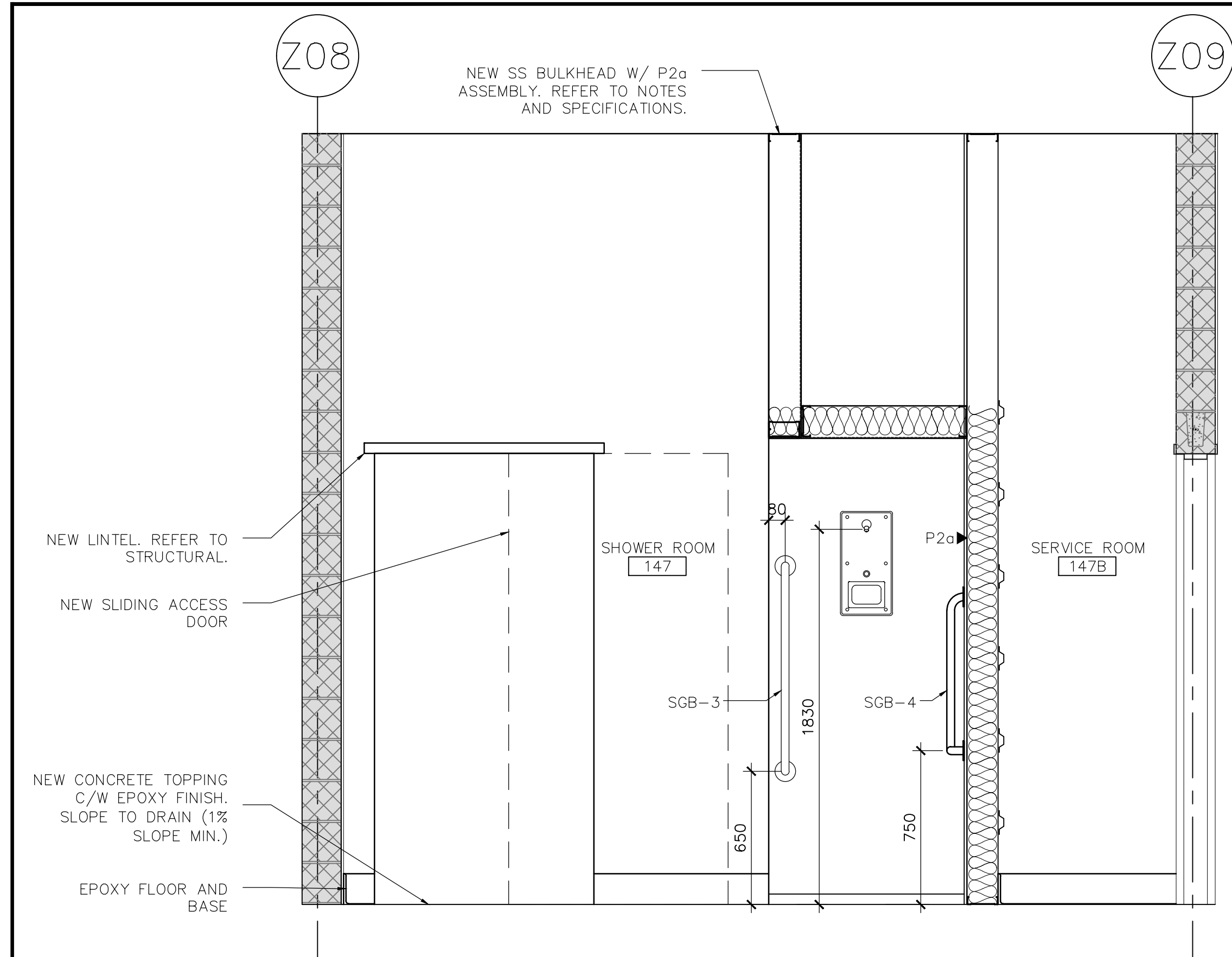
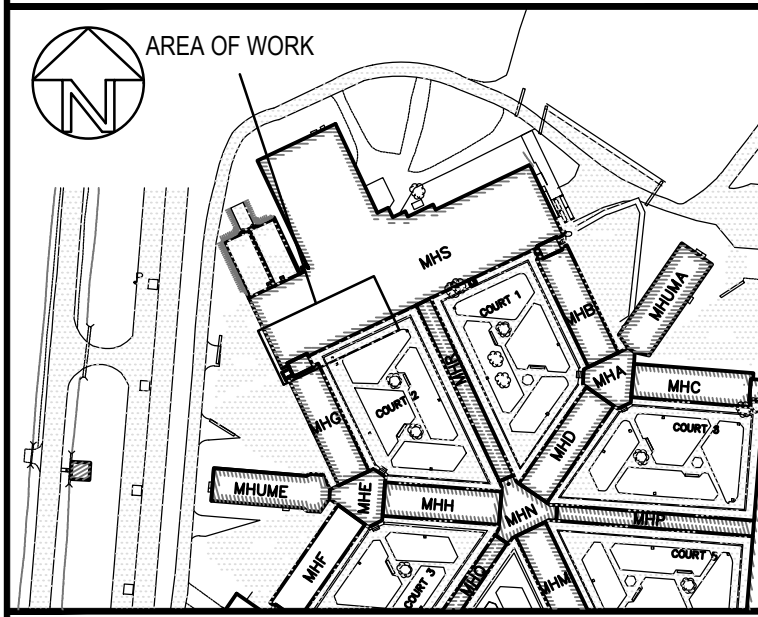
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1	ISSUED FOR TENDER	2021-06-22

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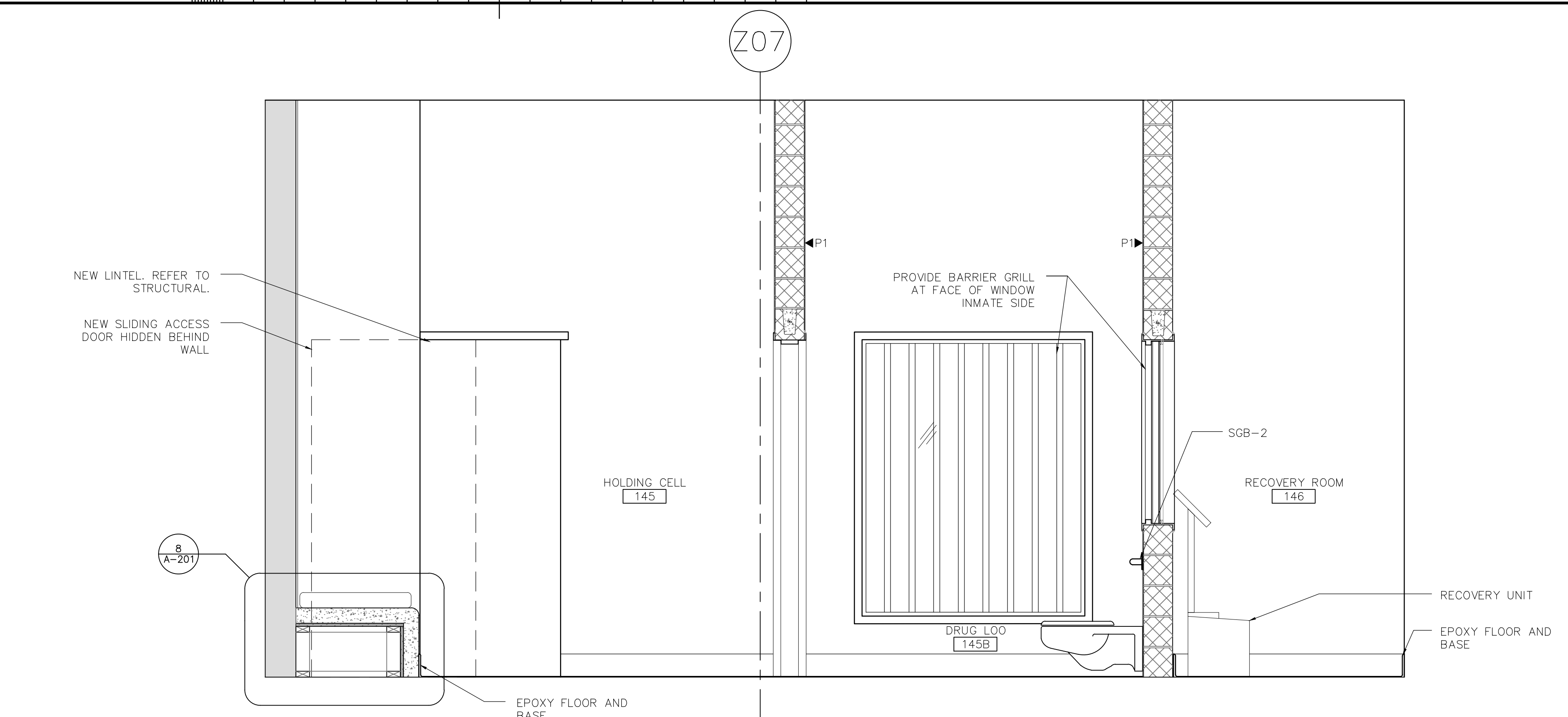
project title
titre du projet
MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON KOH 1G0
**DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT**

drawing title
titre du dessin
**NEW FLOOR PLAN AND NEW
REFLECTED CEILING PLAN**

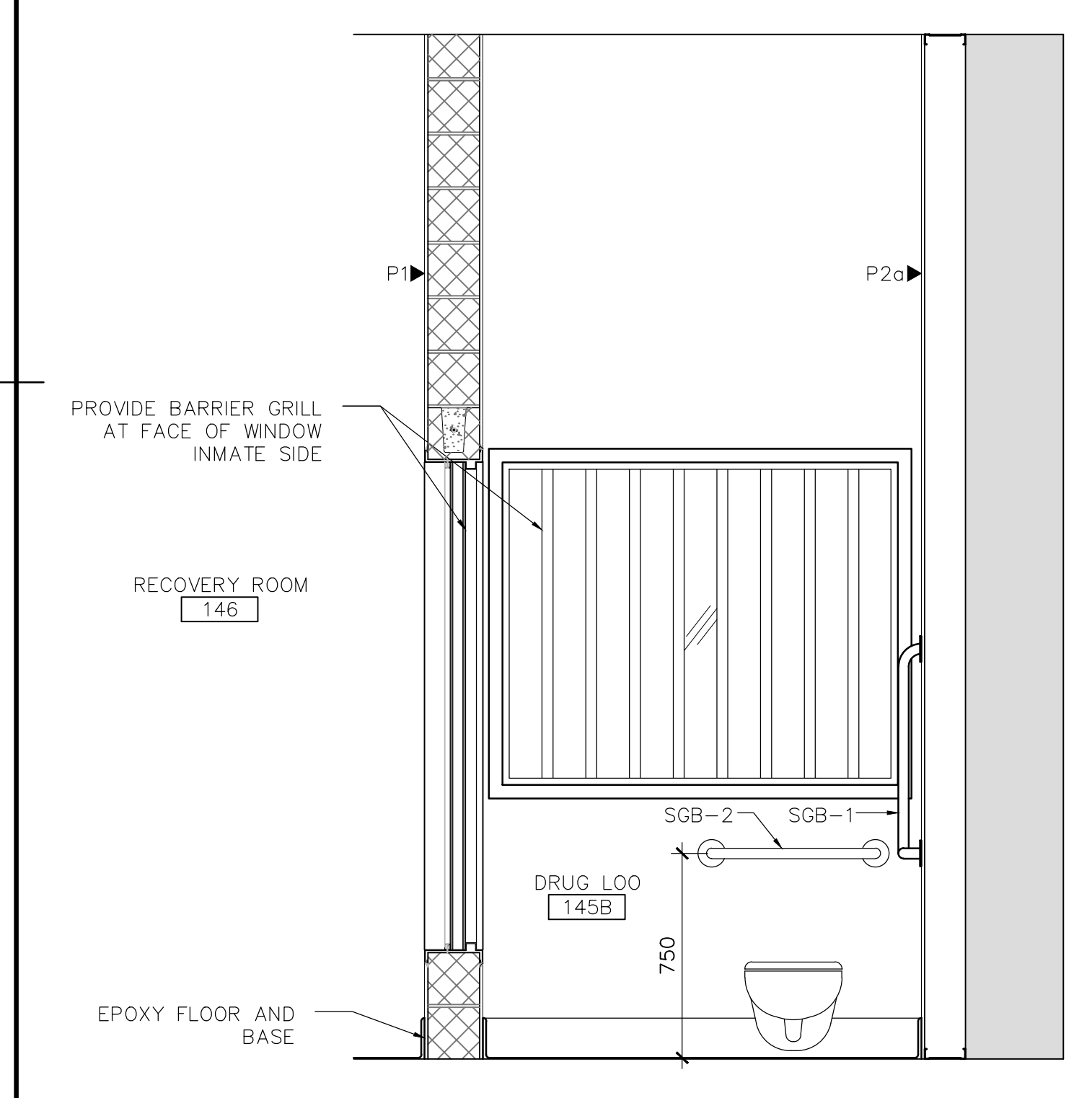
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designed by conc. par	AD
approved by approuvé par	AD
bid offre	project manager administrateur de projets
project date date du projet	2021-02-19
project no. no. du projet	R.106776.001
drawing no. dessiné no.	A-102



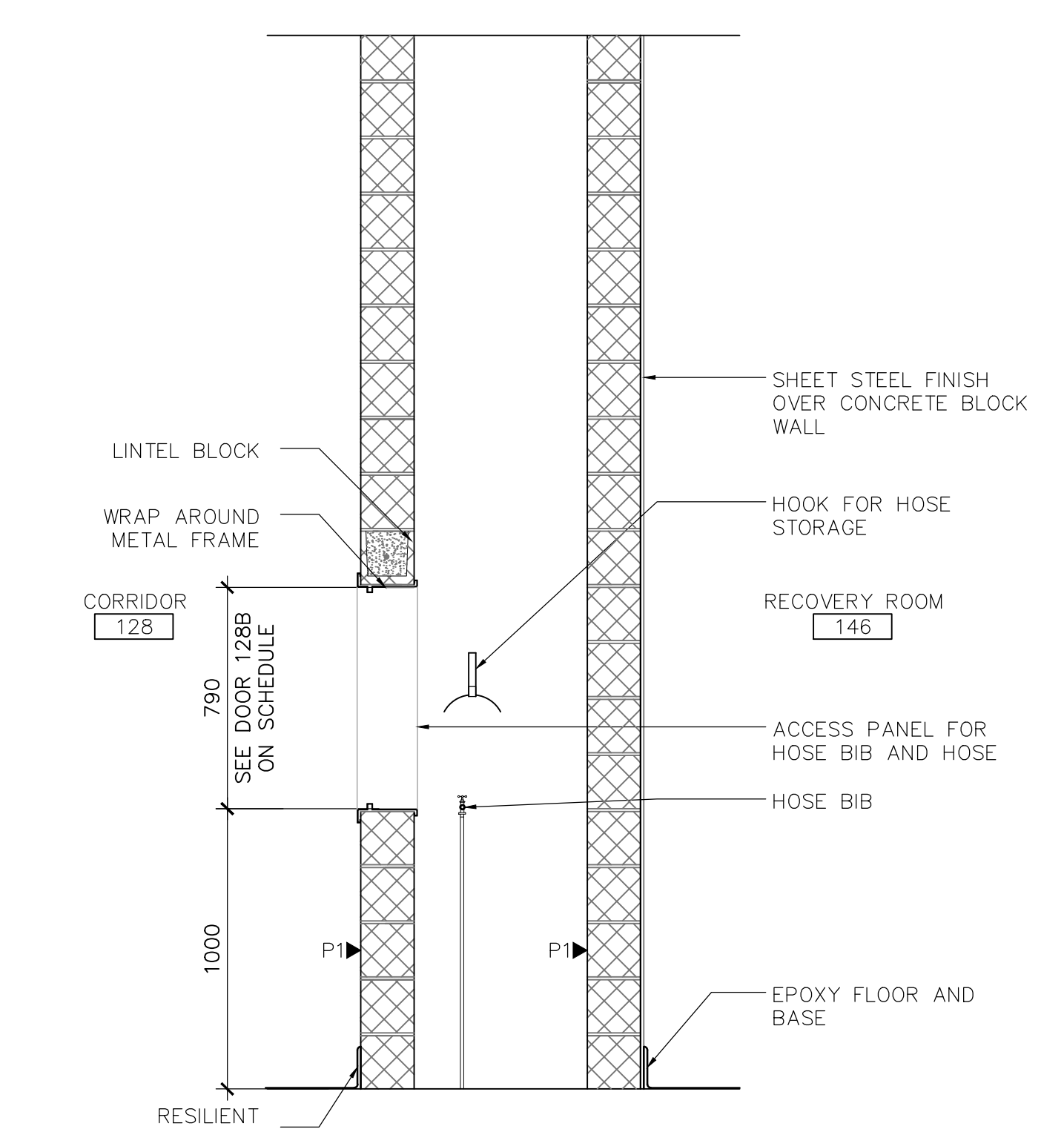
1 147 SHOWER RM, 147B SERVICE RM
 A-201 1:20



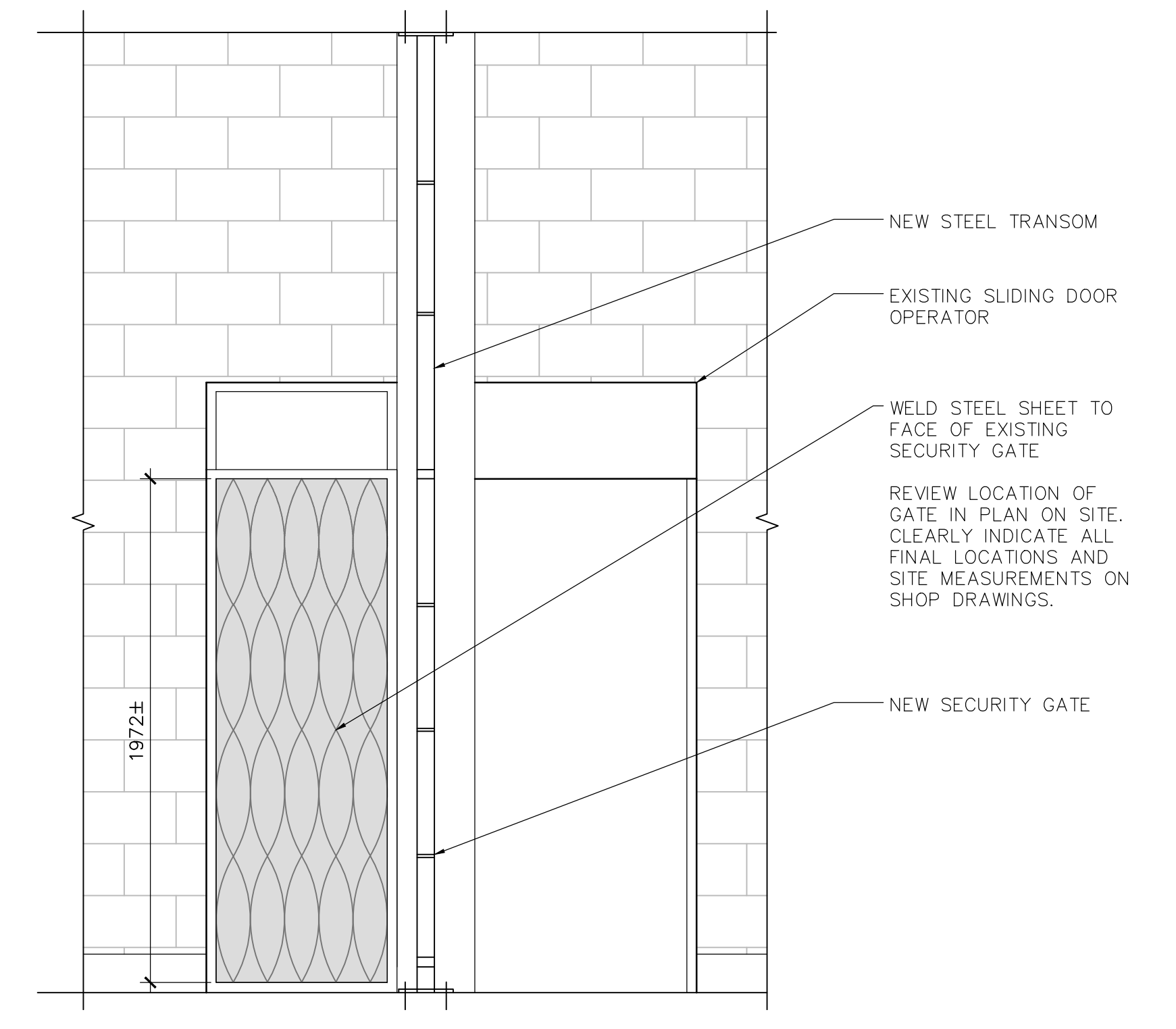
2 145 HOLDING CELL, 146 RECOVERY RM
 A-201 1:20



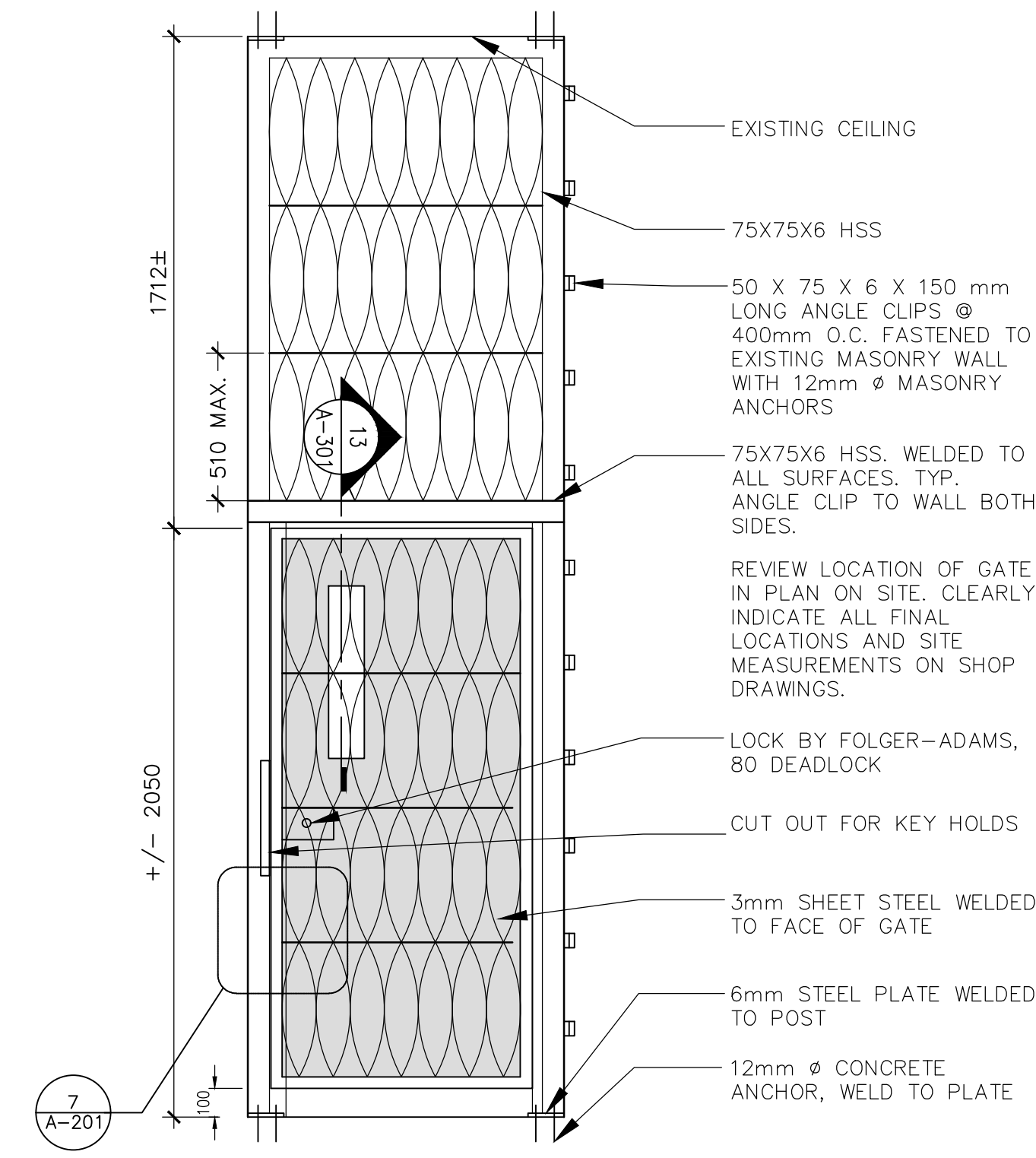
3 145B DRUG LOO
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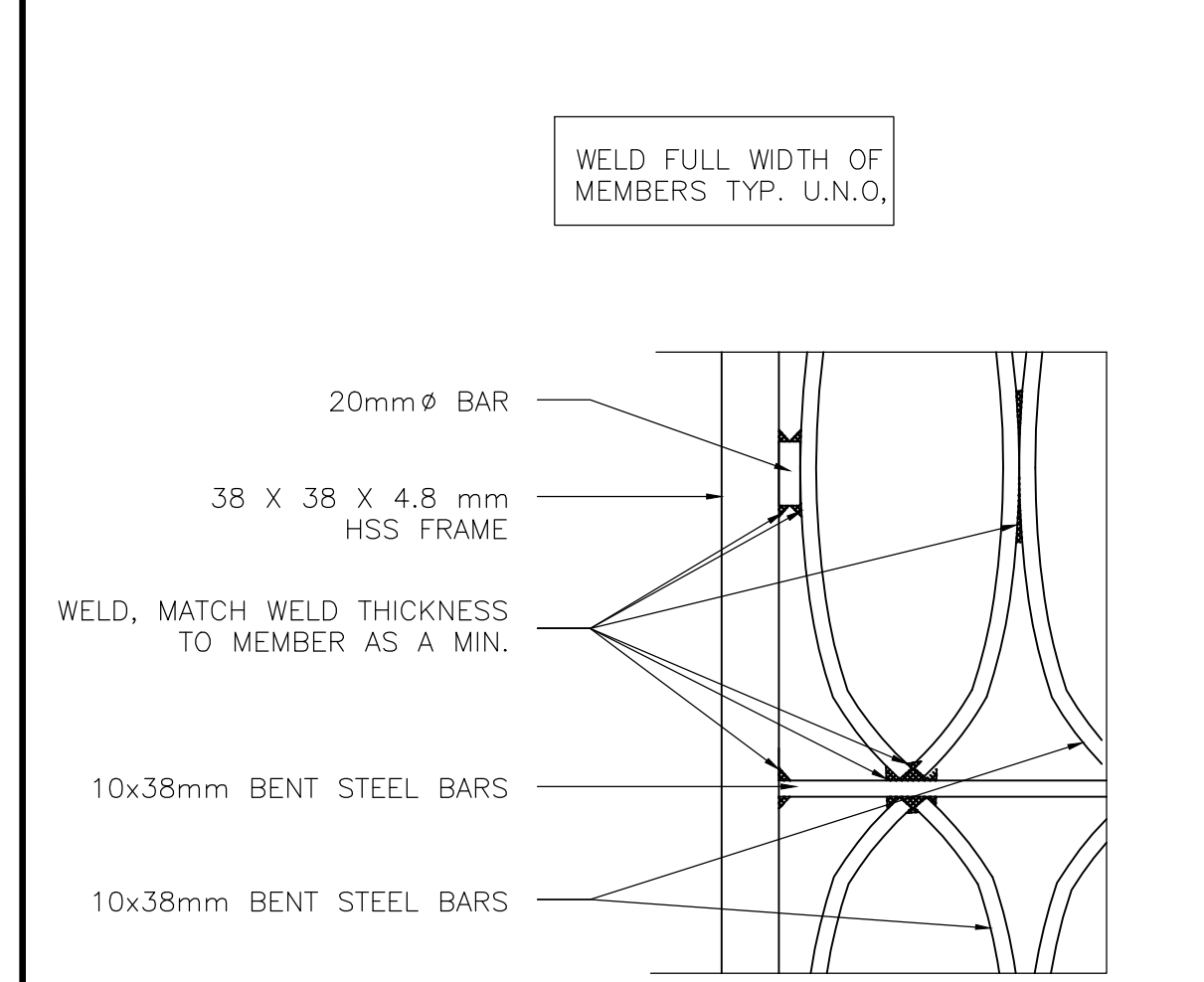
4 HOSE BIB
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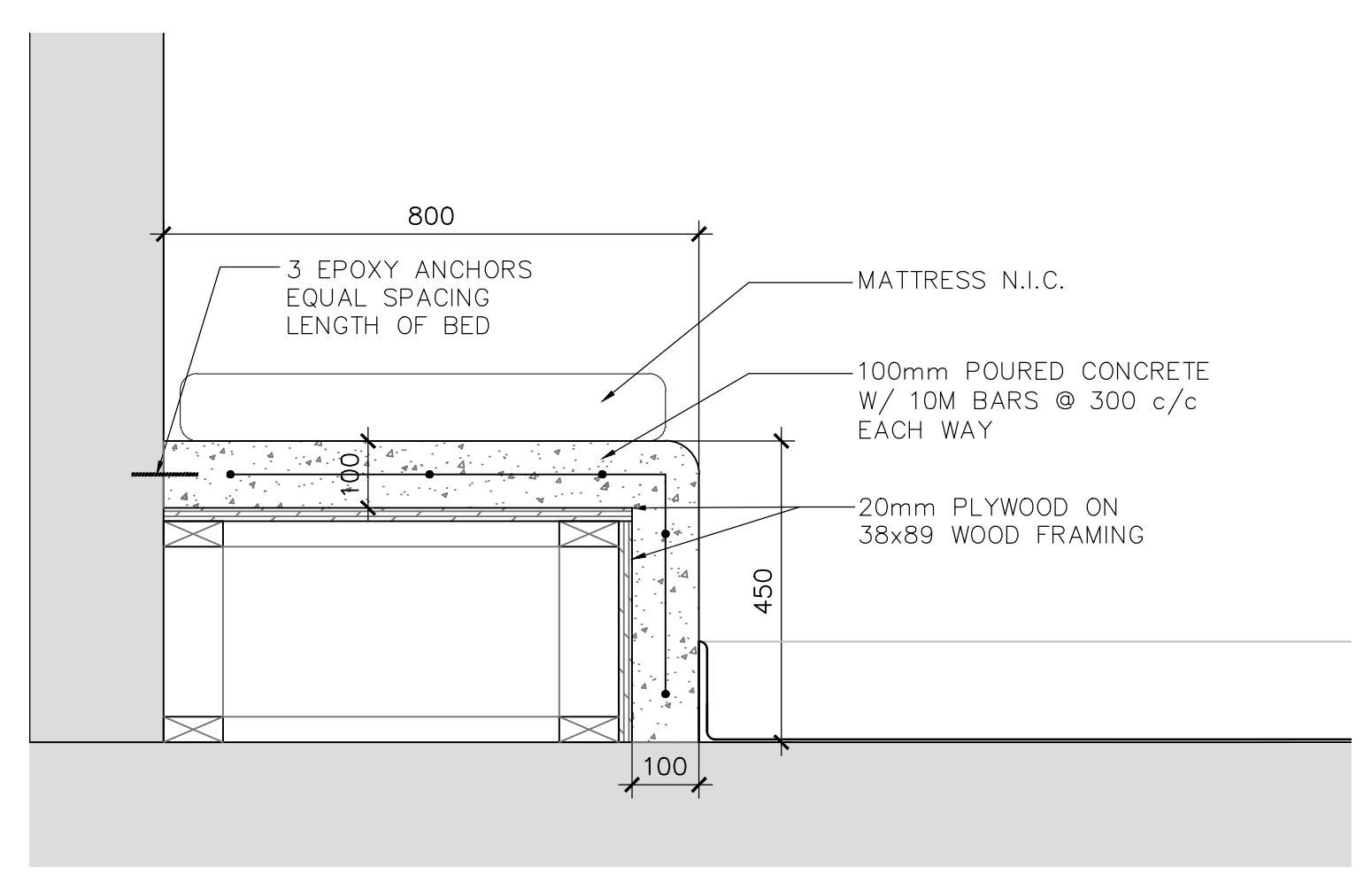
5 ELEVATION EXISTING STEEL GATE
 A-201 1:20



6 ELEVATION STEEL GATE
 A-201 1:20

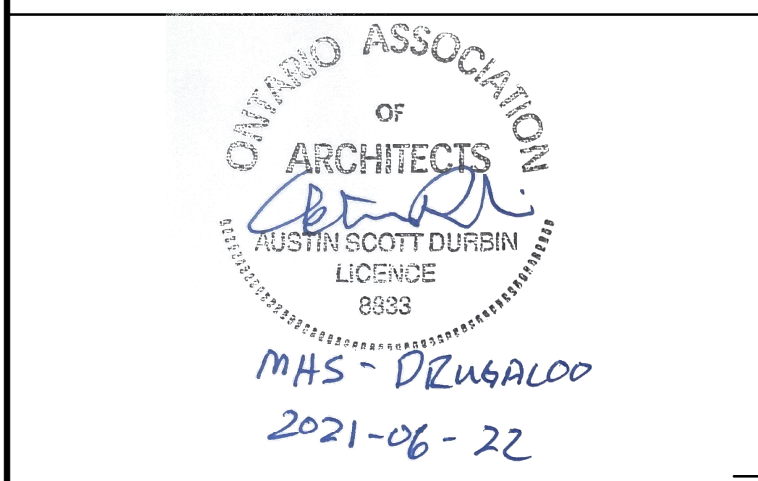


7 DETAIL
 A-201 1:5



8 CONCRETE BED
 A-201 1:10

ARCHITECTURE | 49



revision	description	date
1	ISSUED FOR TENDER	2021-06-22

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Detail No.	No. du détail
A	where detail required
B	ou détail exigé
C	where detailed
	ou détaillé

project title
 titre du projet
MILLHAVEN INSTITUTION
 CSC
 5775 BATH RD.
 BATH, ON K0H 1G0
**DRY CELL RELOCATION -
 STRUCTURED INTERVENTION UNIT**

drawing title
 titre du dessin
INTERIOR ELEVATIONS

drawn by
 dessiné par
AK

designed by
 conc par
AD

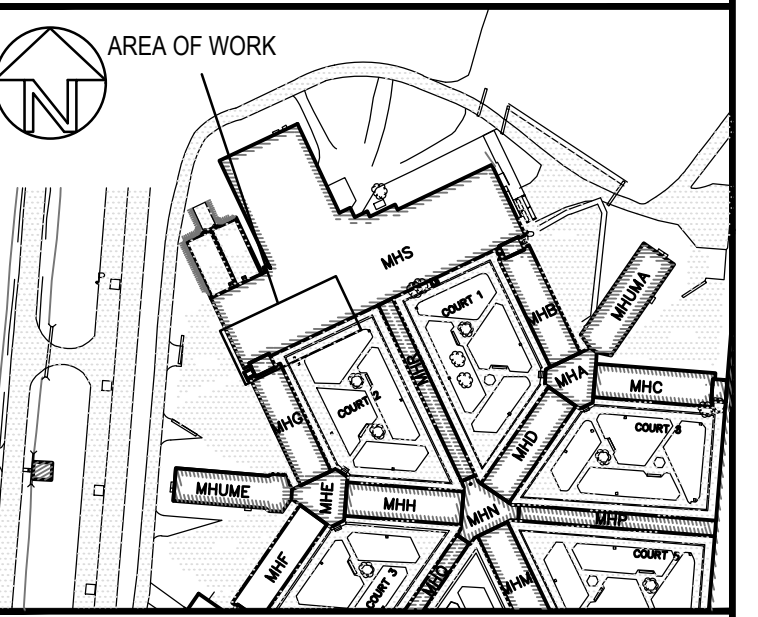
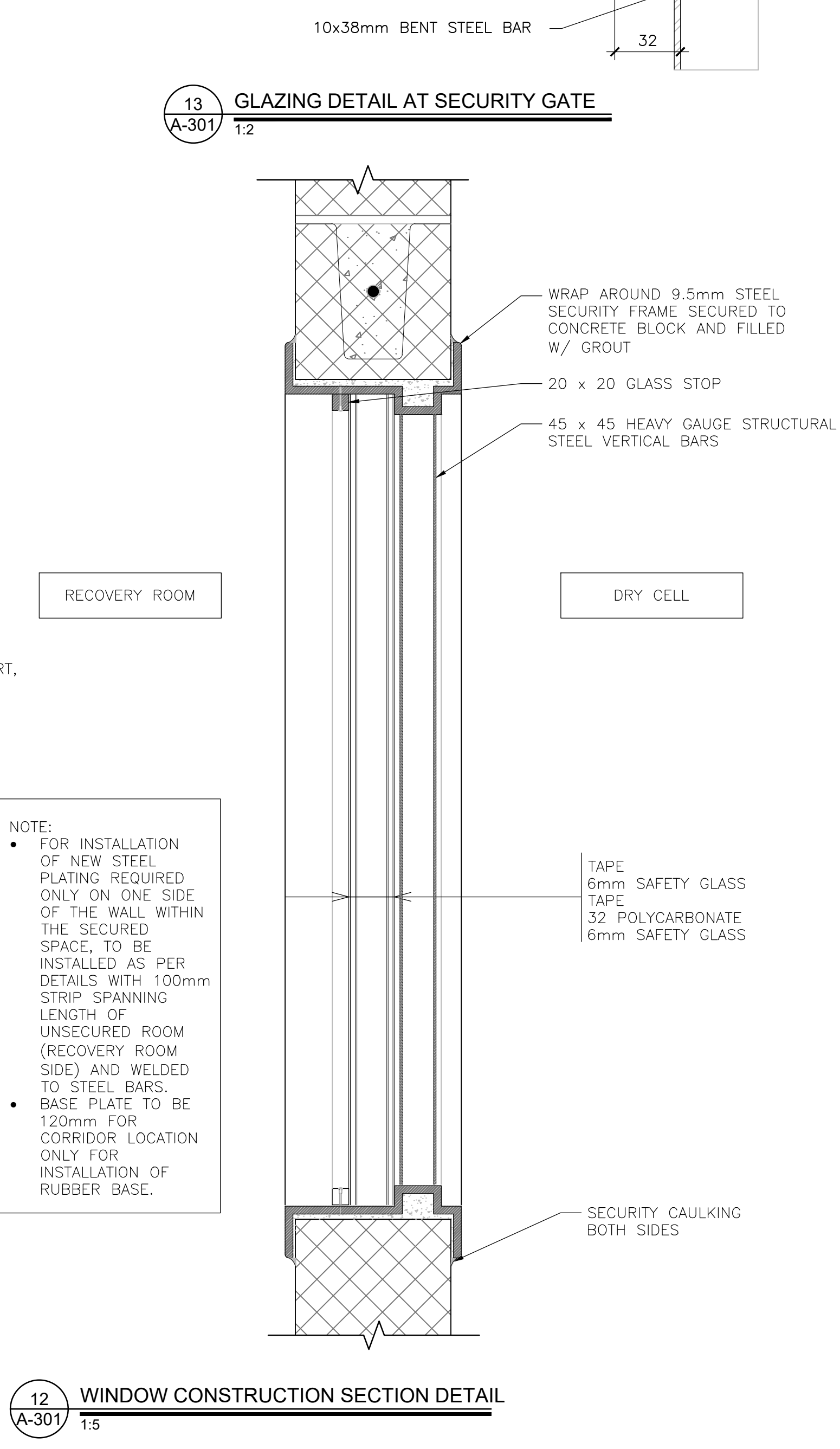
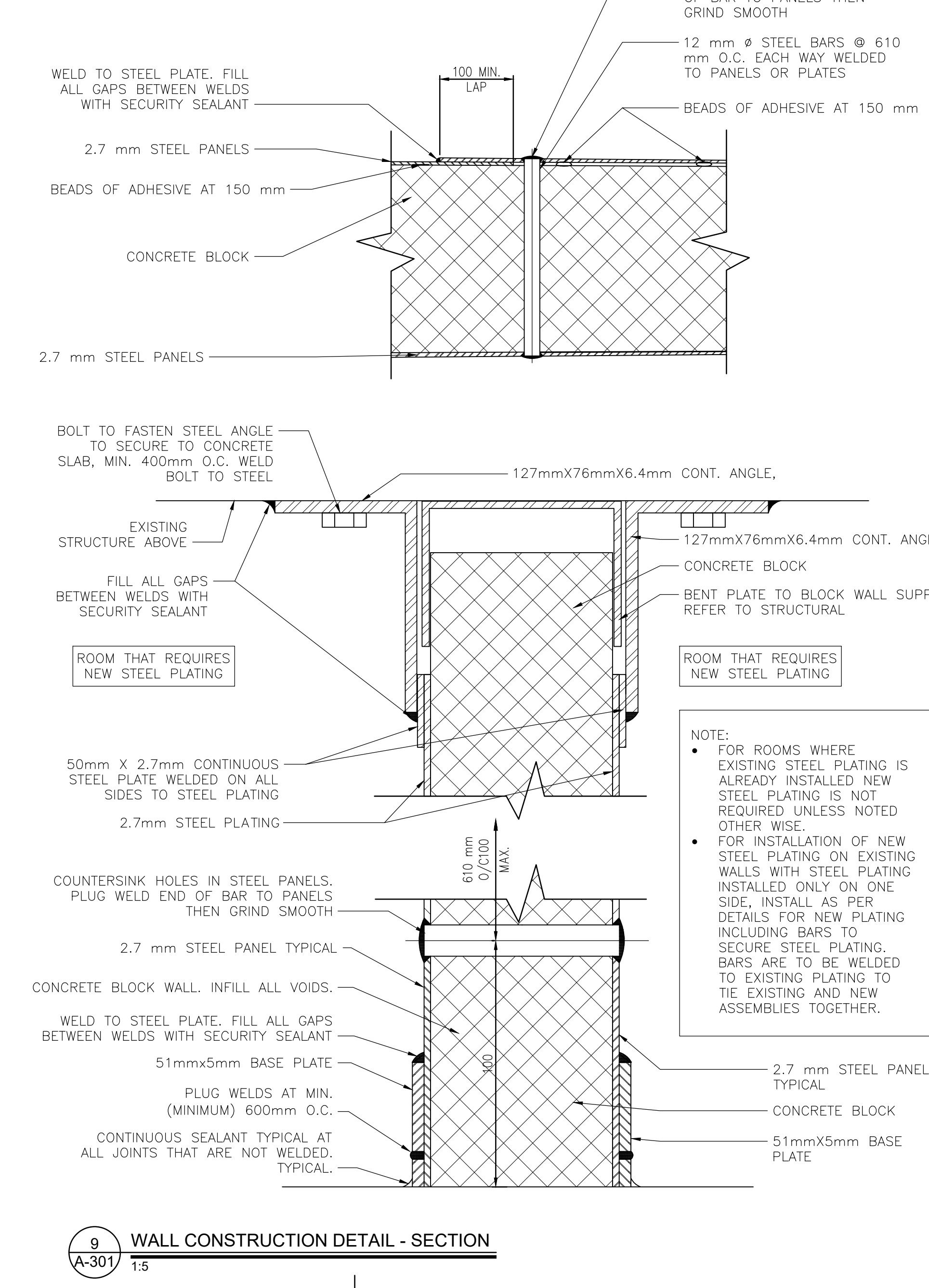
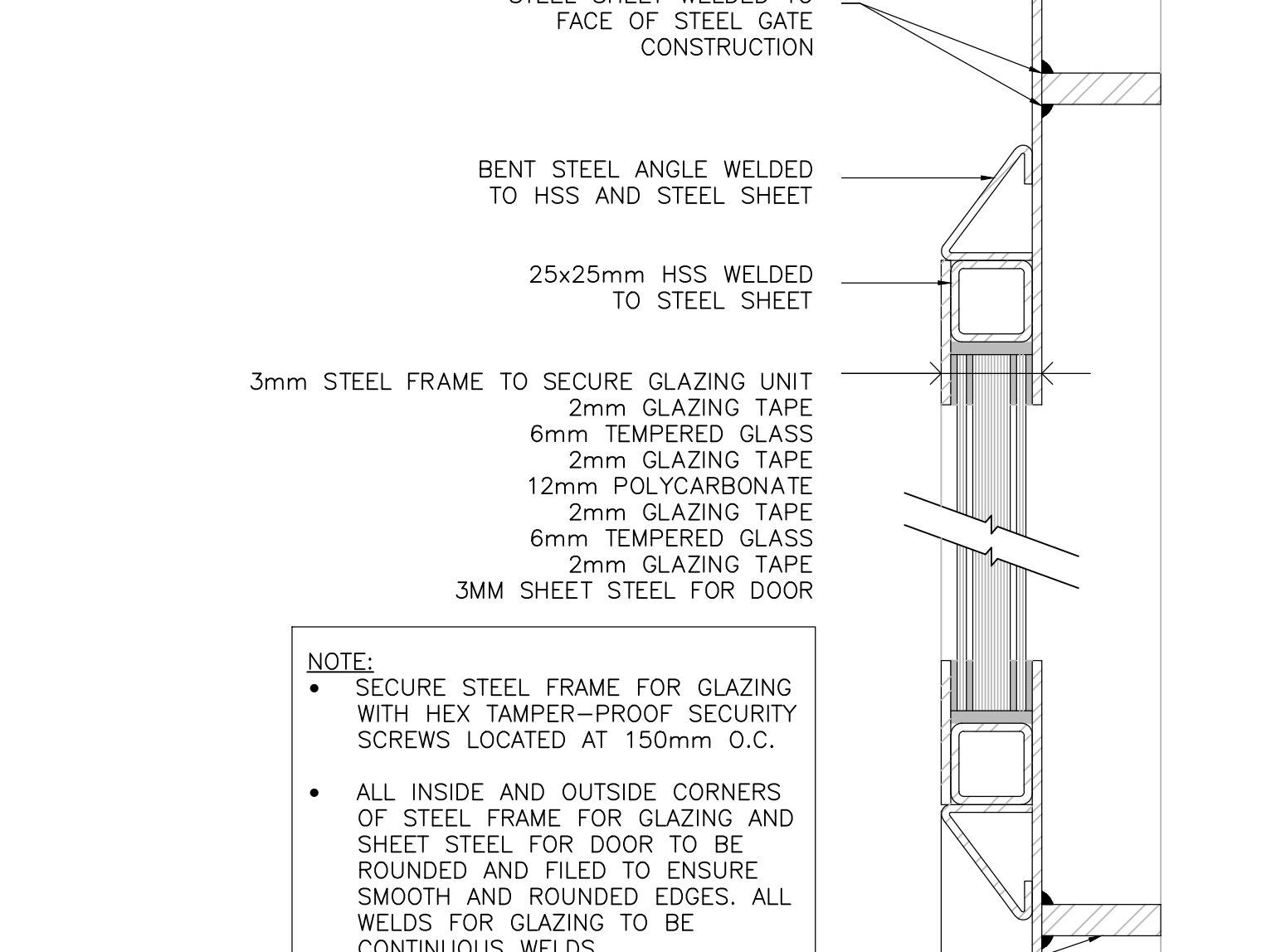
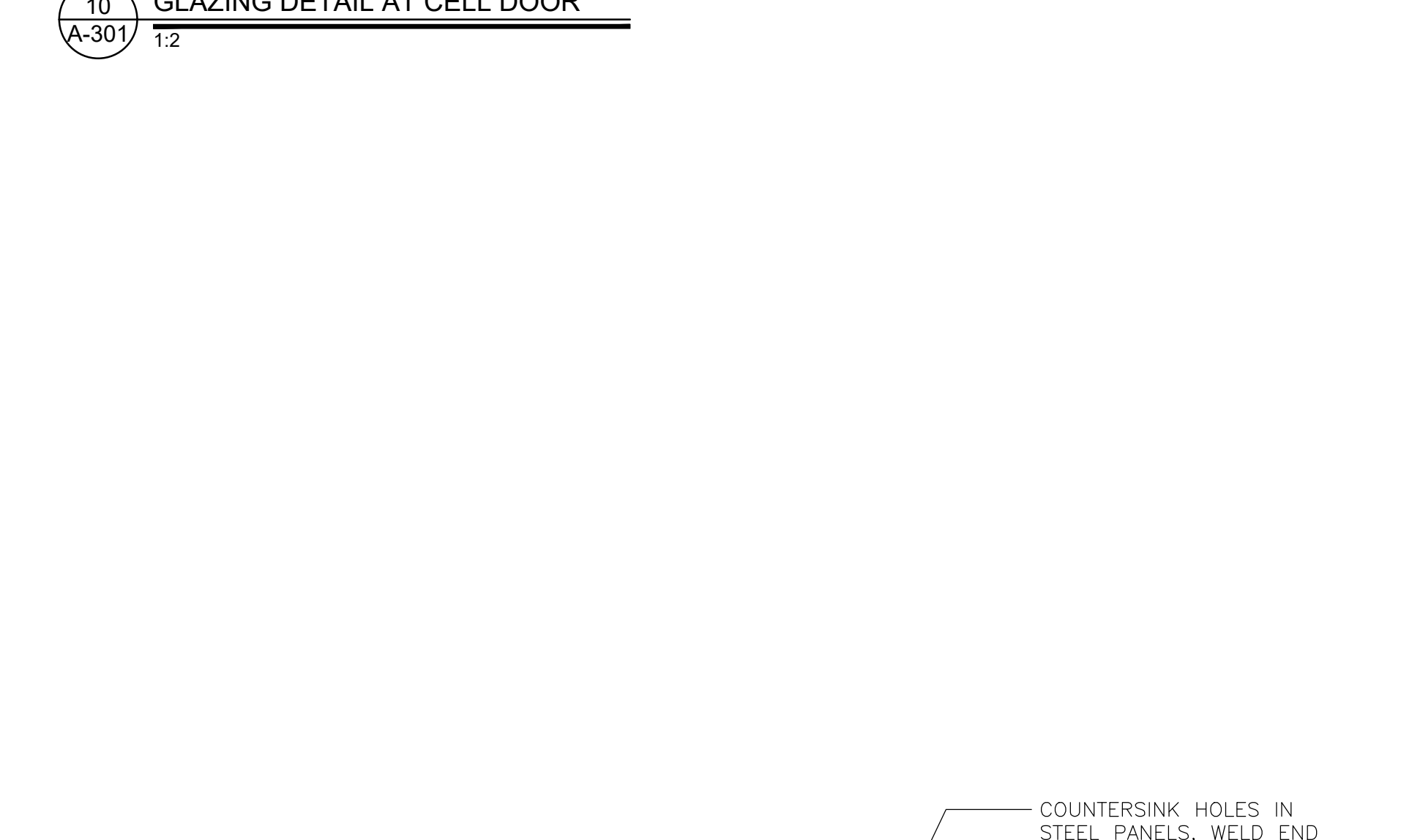
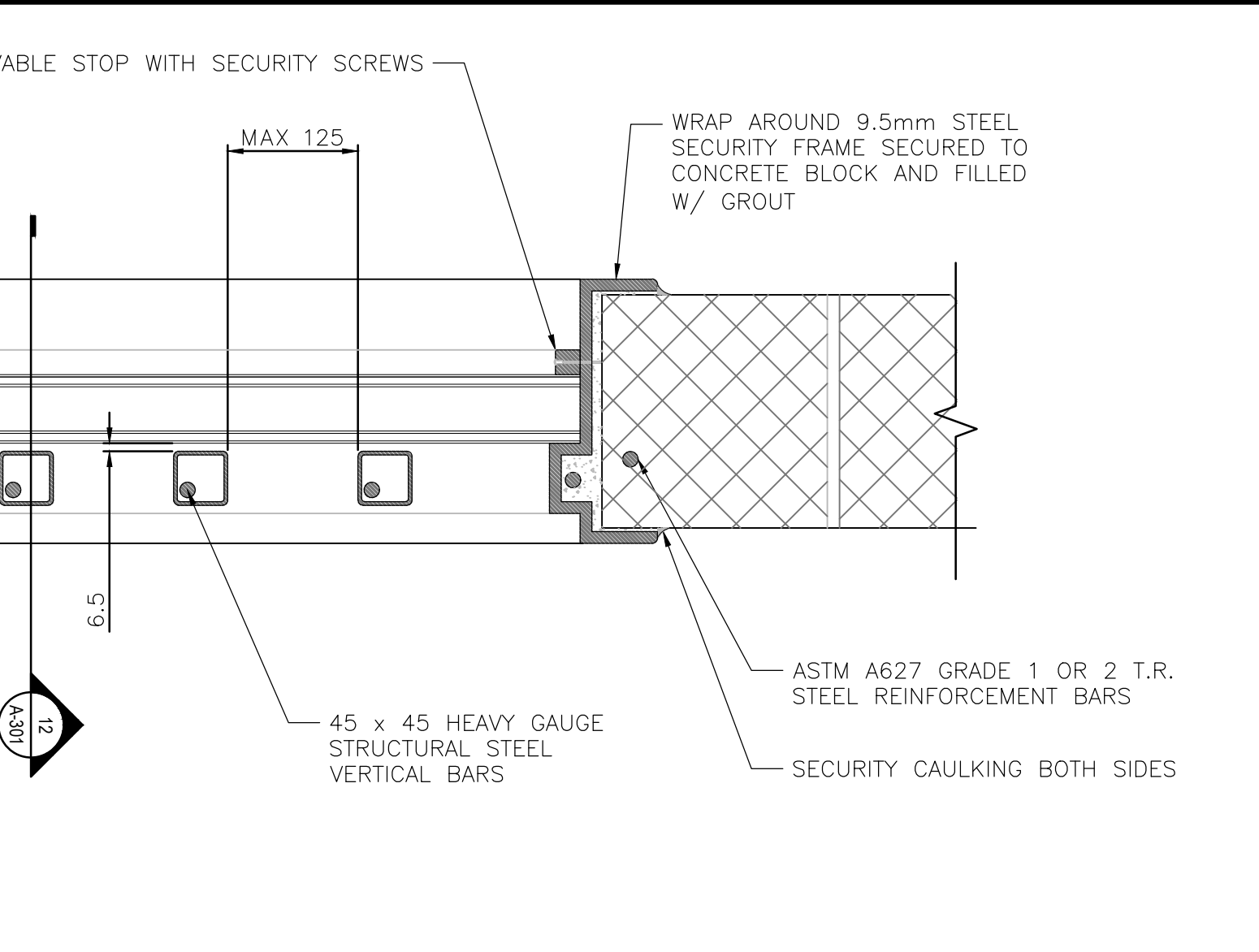
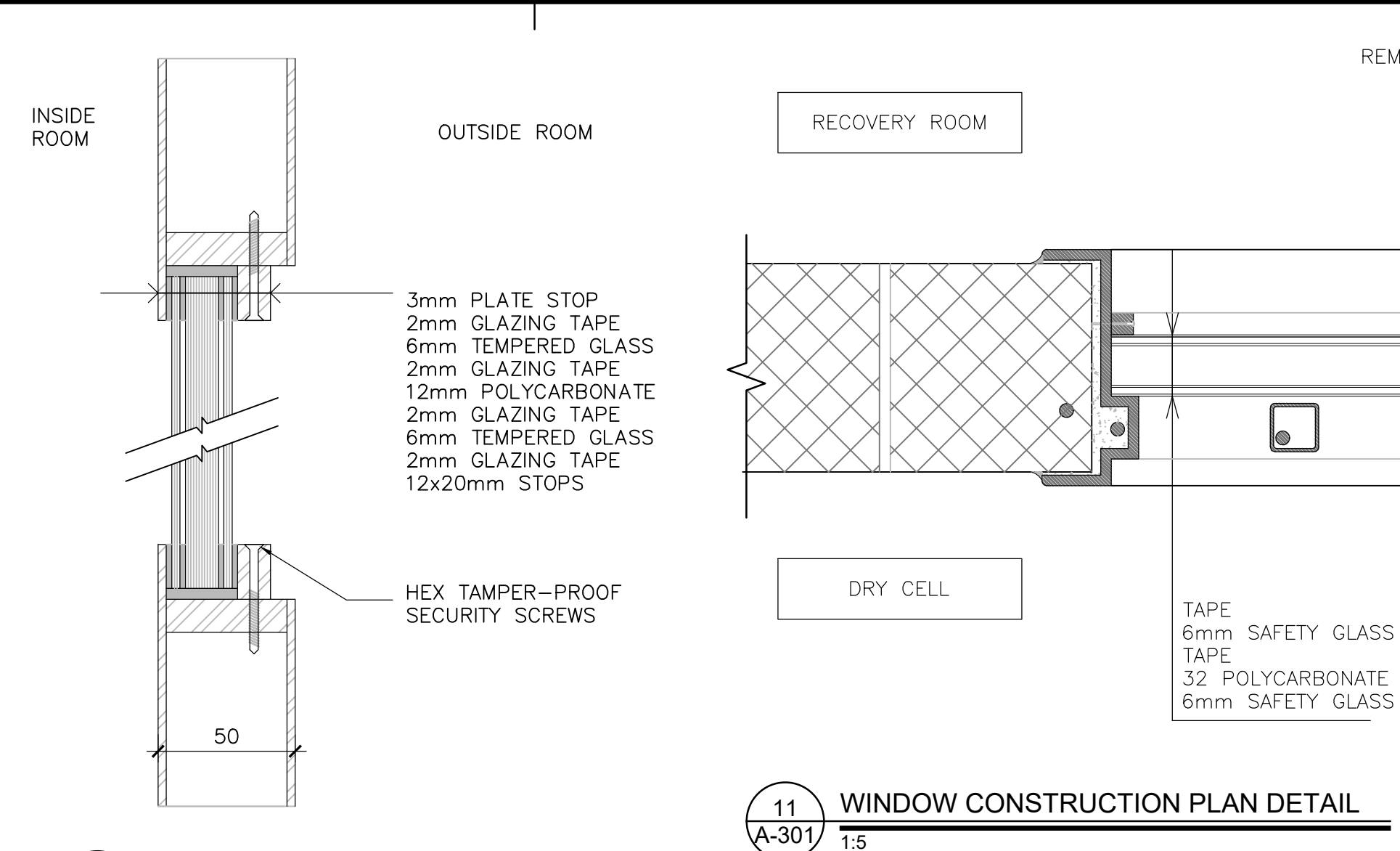
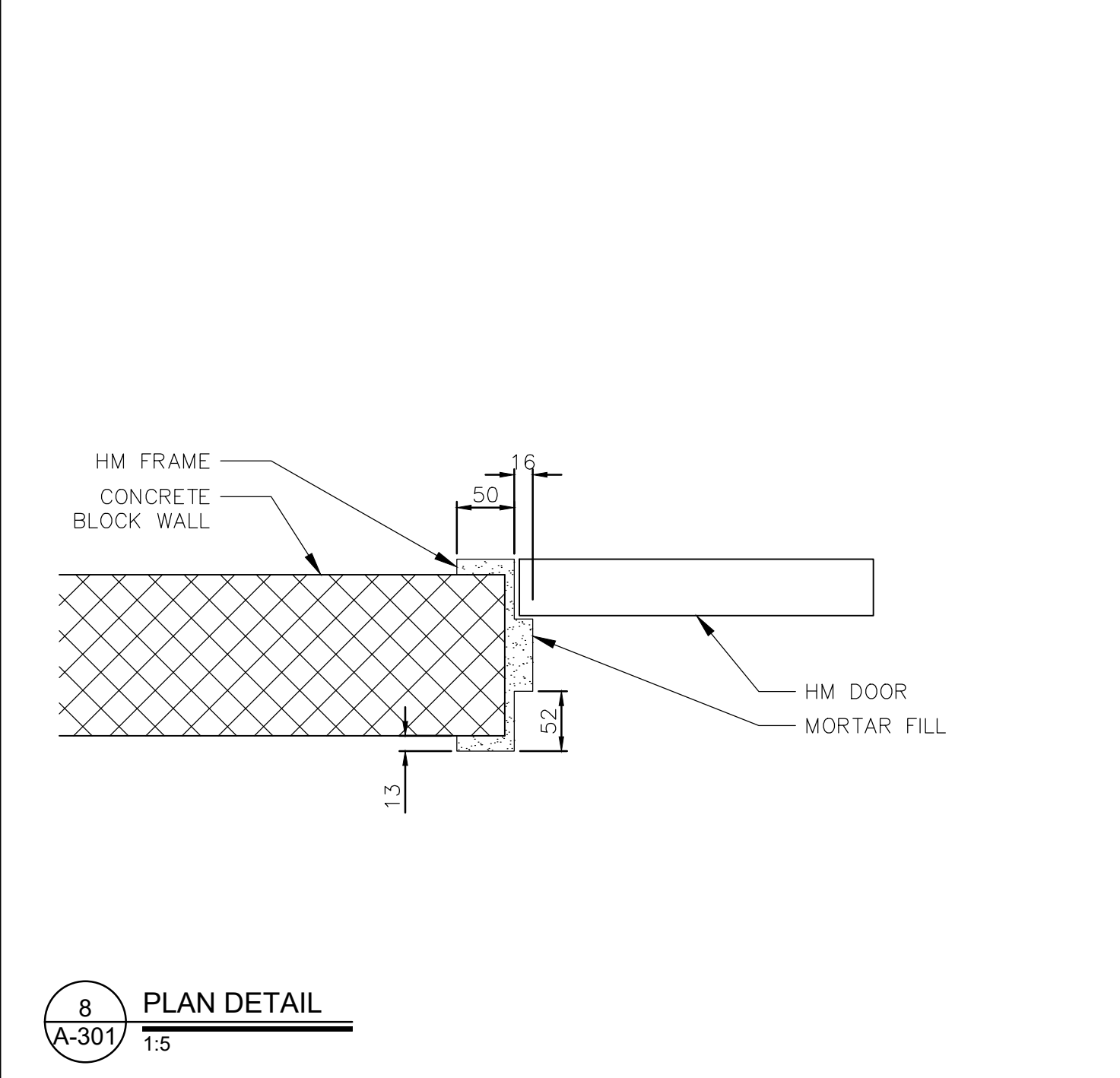
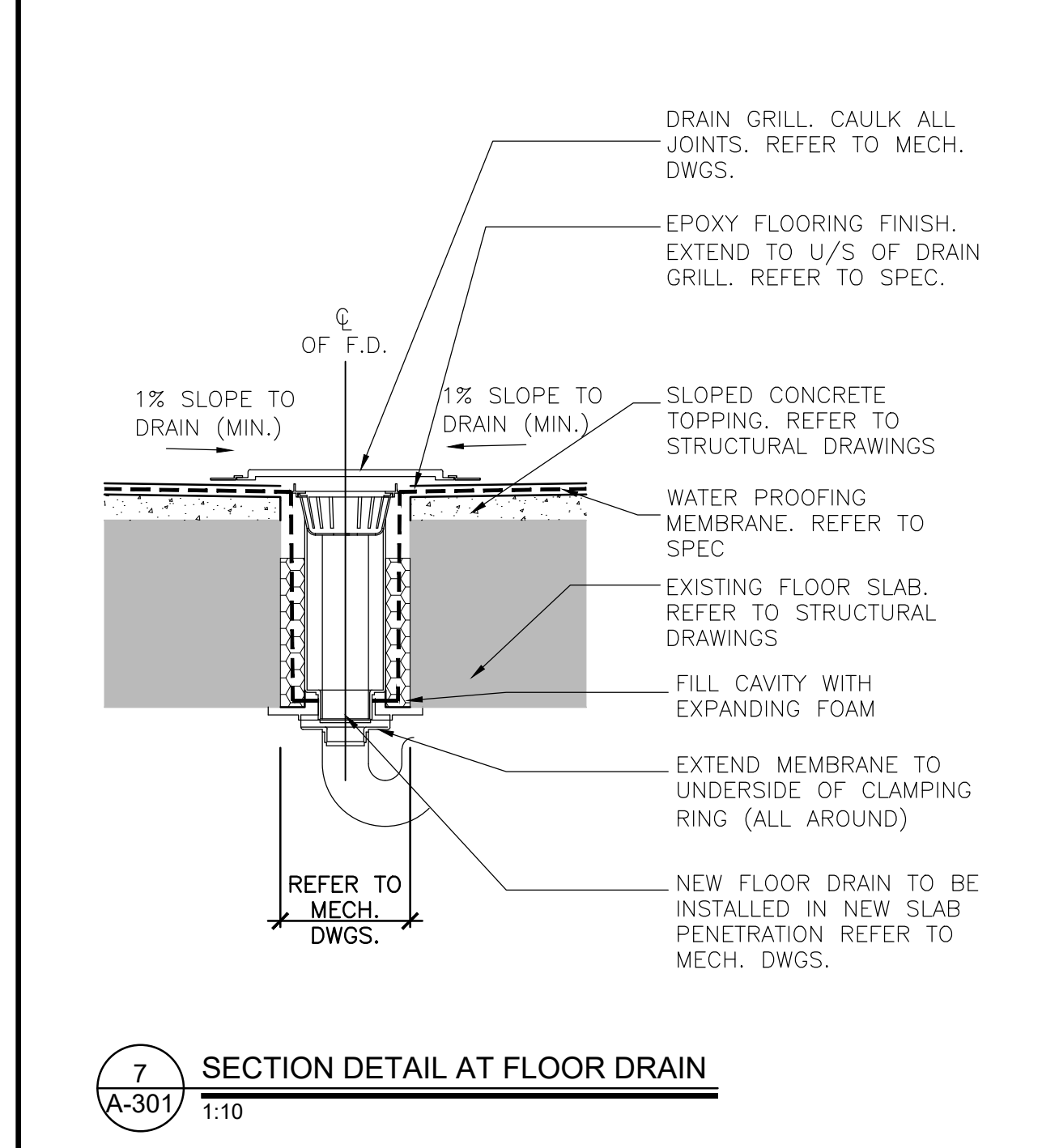
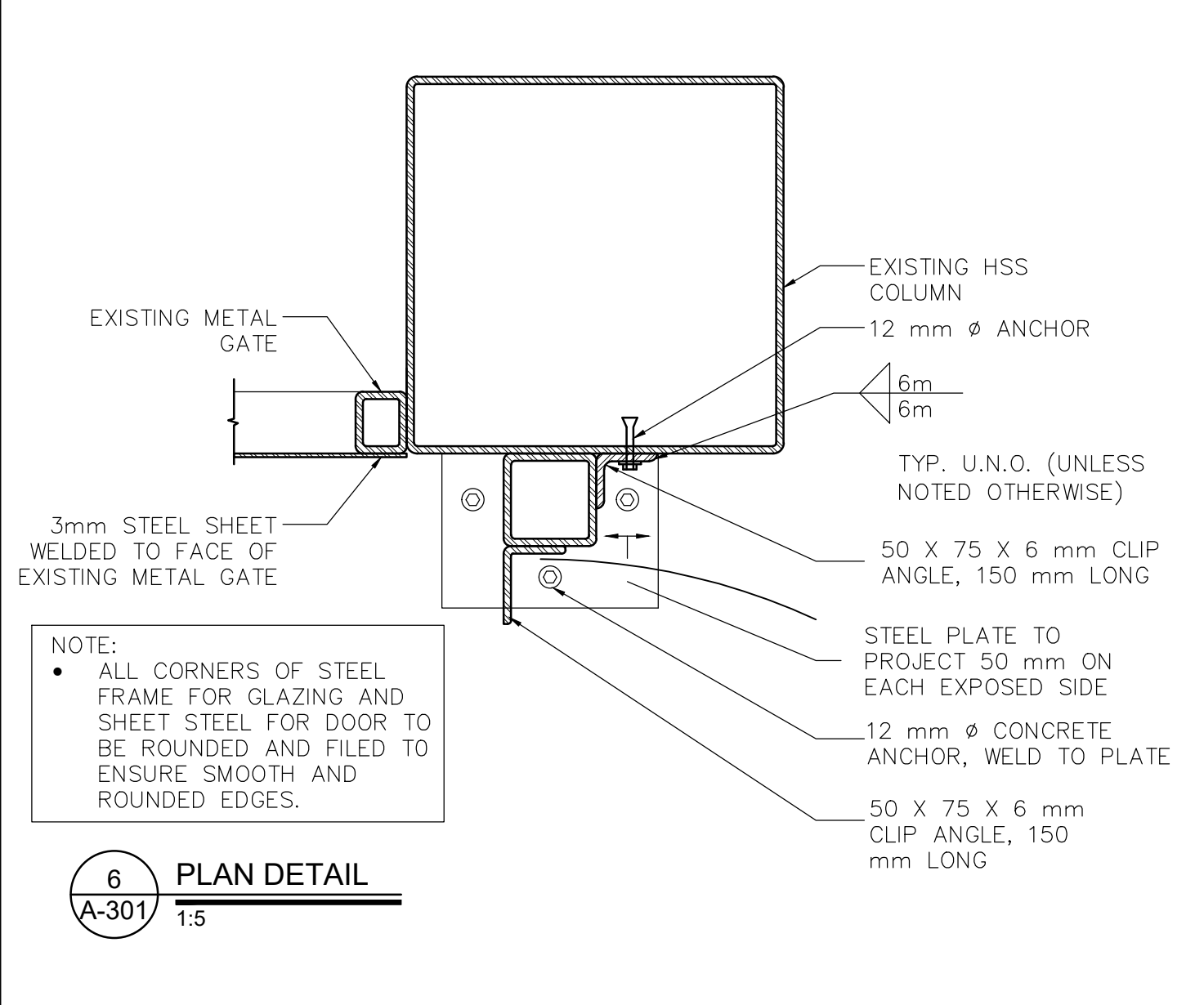
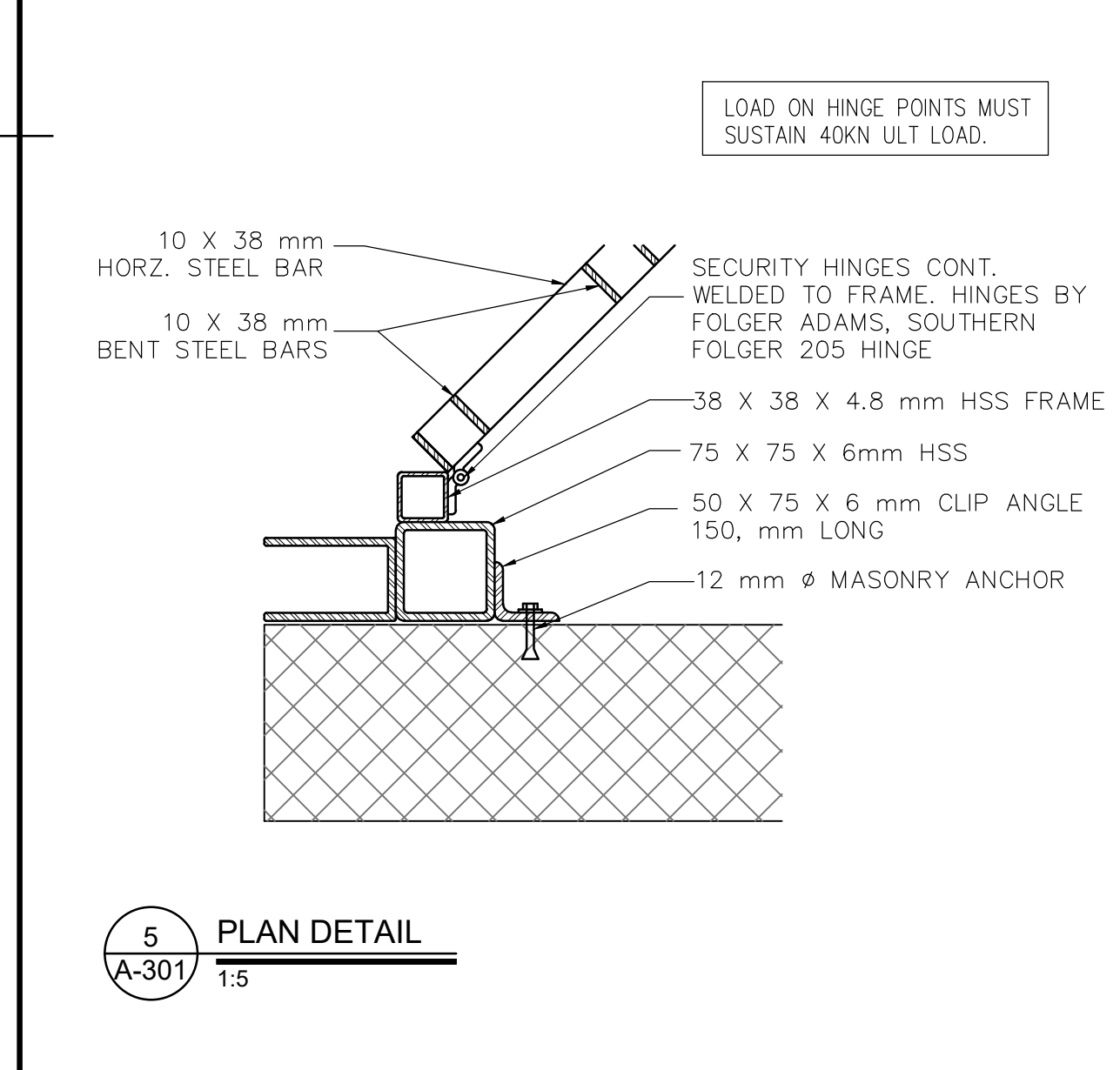
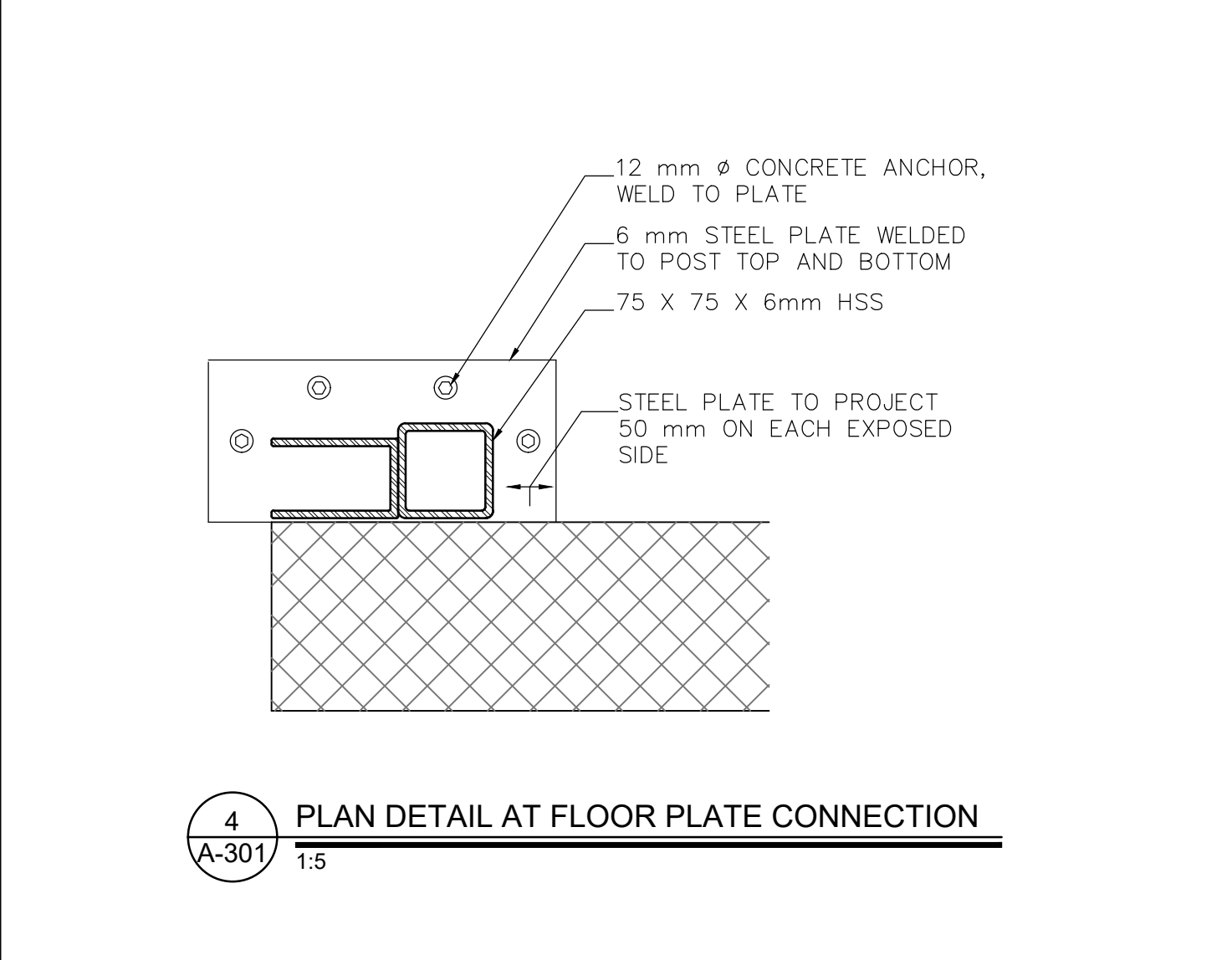
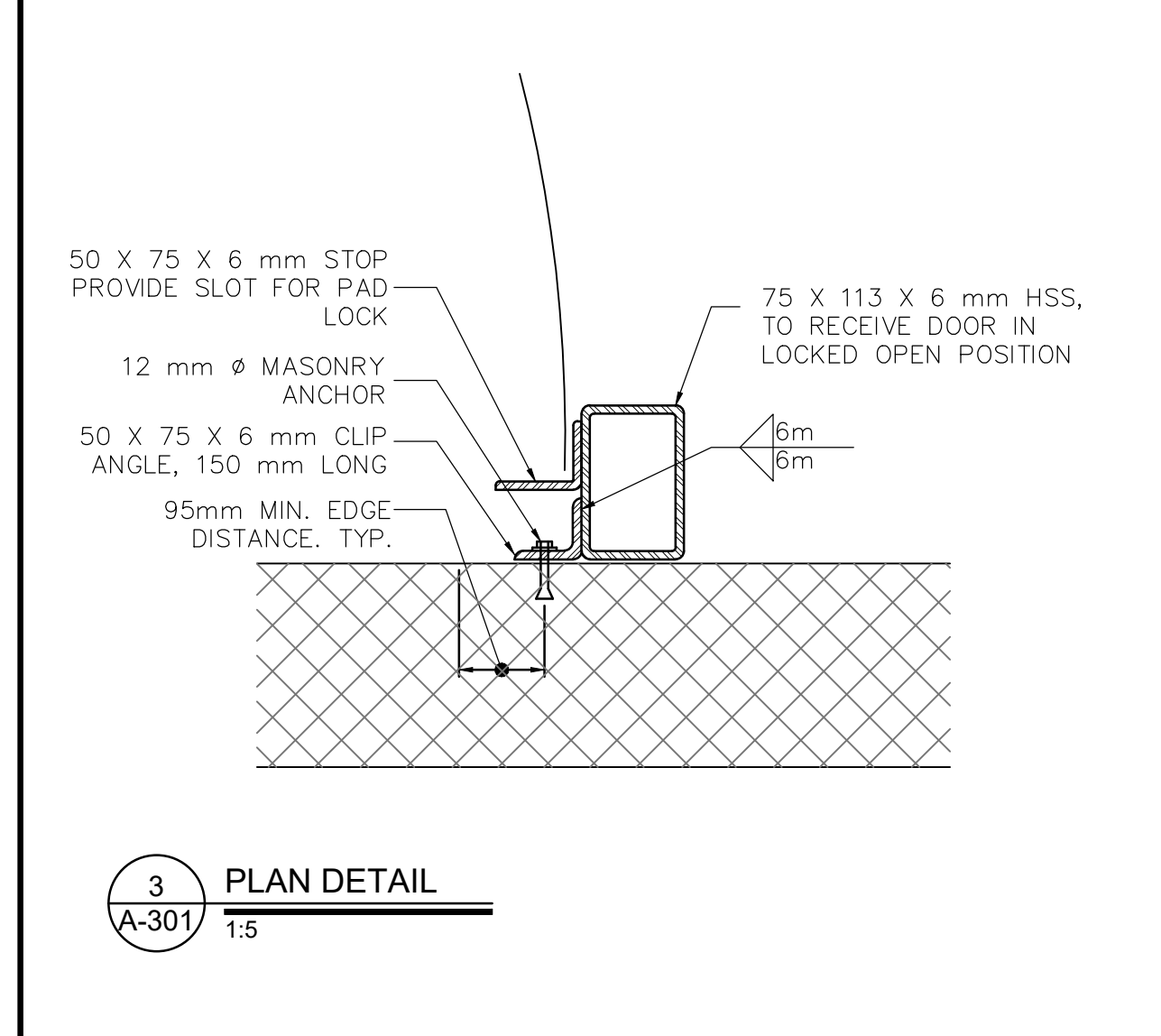
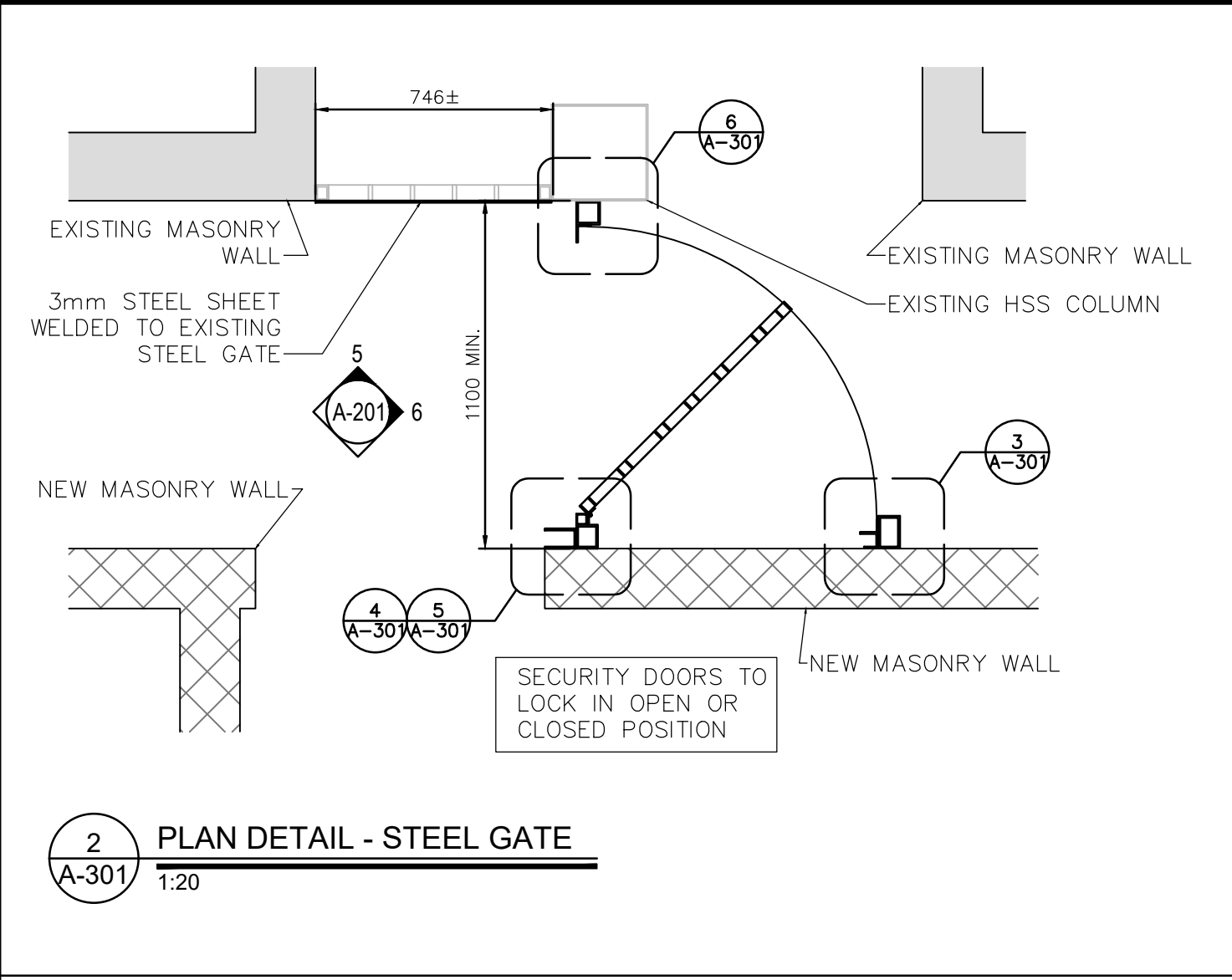
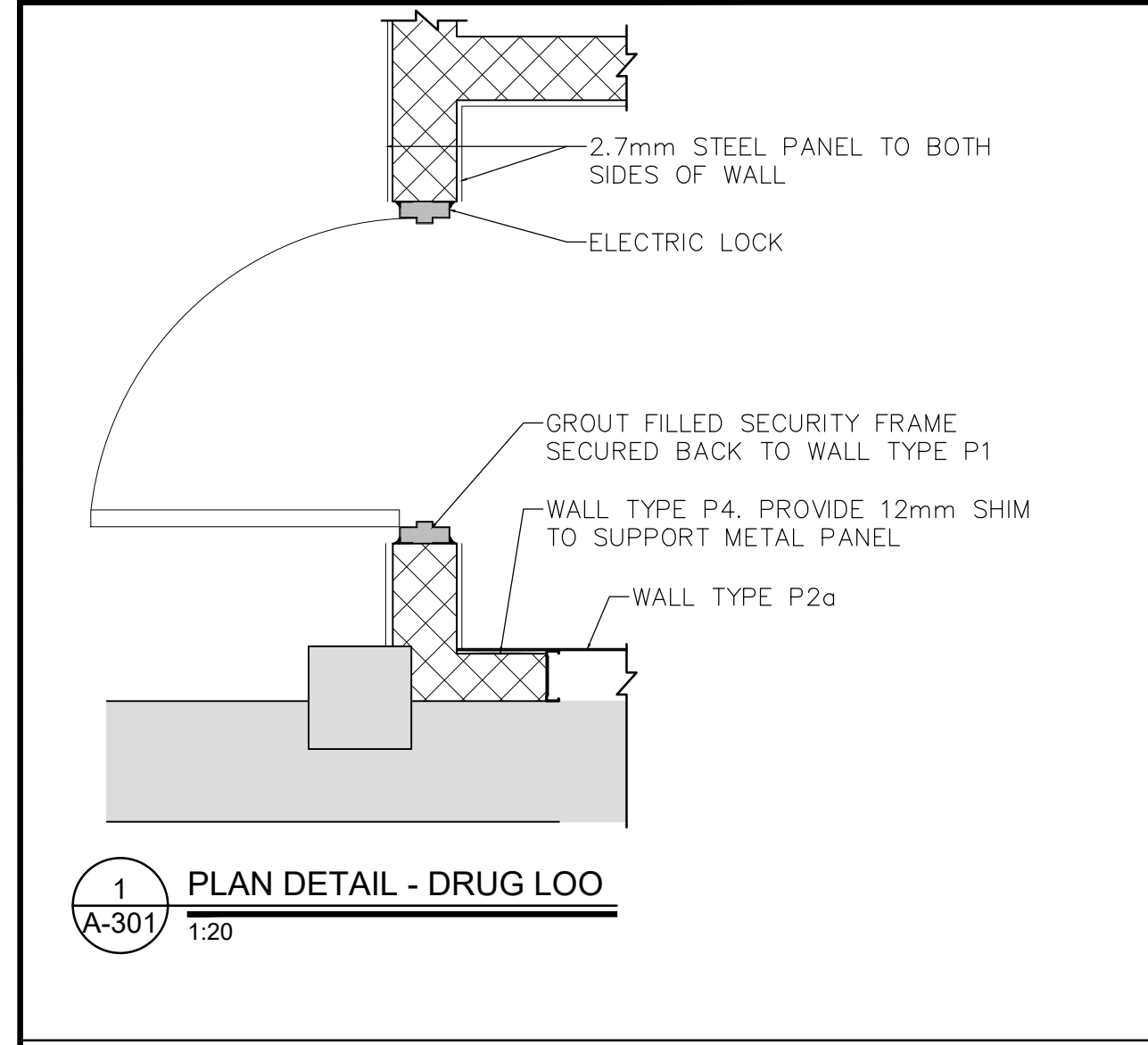
approved by
 approuvé par
AD

bid
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 project manager
 administrateur de projets

project date
 date du projet
2021-02-19

project no.
 no. du projet
R.106776.001

drawing no.
 dessiné no.
A-201



revision	description	date
1	ISSUED FOR TENDER	2021-06-22

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A	Detail No.
B	drawing no. - where detail required
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project title
titre du projet
**MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON K0H 1G0
DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT**

drawing title
titre du dessin
DETAILS

drawn by dessiné par	AK
designed by conçue par	AD
approved by approuvé par	AD
bid offre	project manager administrateur de projets
project date date du projet	2021-02-19
project no. no. du projet	R.106776.001
drawing no. dessiné no.	A-301

GENERAL

- THIS IS A METRIC PROJECT. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS.
- PROVIDE ALL MATERIAL AND LABOUR REQUIRED FOR COMPLETION OF THE WORK.
- PRIOR TO CONSTRUCTION, REVIEW STRUCTURAL DRAWINGS IN CONJUNCTION WITH DRAWINGS PROVIDED BY ALL OTHER DISCIPLINES, AND WITH EXISTING CONDITIONS.
- REPORT DISCREPANCIES TO THE DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
- VERIFY EXISTING DIMENSIONS AND CONDITIONS ON SITE PRIOR TO CONSTRUCTION.
- USE THESE DRAWINGS ONLY FOR THE PURPOSE IDENTIFIED IN THE REVISIONS COLUMN. DO NOT CONSTRUCT FROM THESE DRAWINGS UNLESS MARKED "ISSUED FOR CONSTRUCTION".
- DO NOT USE INFORMATION ON THESE DRAWINGS FOR ANY OTHER PROJECT OR WORKS.
- DO NOT SCALE THESE DRAWINGS.
- ALL SECTIONS, DETAILS, AND STATEMENTS NOTED AS "TYPICAL" APPLY TO LIKE/SIMILAR CONDITIONS IN THE STRUCTURE.
- DRAWINGS SHOW COMPLETED STRUCTURE ONLY. THEY DO NOT SHOW TEMPORARY WORKS FOR WHICH THE CONTRACTOR IS RESPONSIBLE AND WHICH MAY BE REQUIRED FOR EXECUTION OF THE PROJECT. THE CONTRACTOR TO ESTABLISH CONSTRUCTION PROCEDURE AND SEQUENCE TO ENSURE SAFETY OF THE WHOLE STRUCTURE AND ALL ITS COMPONENTS DURING ERECTION AS WELL AS SAFETY OF OCCUPANTS AND WORKERS.
- MAKE ADEQUATE PROVISIONS FOR ALL LOADS ACTING ON THE EXISTING STRUCTURE DURING CONSTRUCTION. PROVIDE TEMPORARY SHORING AND BRACING TO KEEP THE STRUCTURE PLUMB AND IN TRUE ALIGNMENT DURING CONSTRUCTION.
- DESIGN OF ALL TEMPORARY WORKS TO BE CARRIED OUT BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED.
- DESIGN OF NON-STRUCTURAL AND SECONDARY STRUCTURAL ELEMENTS (SUCH AS MISCELLANEOUS STEEL STAIRS, RAILINGS AND GUARDRAILS, PARTITIONS, CLADDINGS, BULKHEADS, ETC.) IS THE RESPONSIBILITY OF PROFESSIONAL ENGINEERS ENGAGED BY THE CONTRACTOR.

DESIGN CRITERIA

- STRUCTURAL DESIGN IS IN ACCORDANCE WITH THE 2012 ONTARIO BUILDING CODE (OBC, SUPPLEMENTED BY THE 2015 NATIONAL BUILDING CODE OF CANADA STRUCTURAL COMMENTARY).
- ALL REFERENCED STANDARDS SHALL BE THE CURRENT EDITION UNLESS DIFFERENT EDITION IS REFERENCED BY THE APPLICABLE BUILDING CODE NOTED ABOVE.
- EXISTING STRUCTURAL DRAWINGS ARE AVAILABLE THROUGH THE DEPARTMENTAL REPRESENTATIVE. CONTRACTOR SHALL VERIFY THE VALIDITY OF THE EXISTING DRAWINGS WITH TRUE SITE CONDITIONS. THE DRAWINGS MAY NOT DEPICT THE ACTUAL CONDITION ENCOUNTERED ON SITE.
- IF ONLY ONE VALUE IS GIVEN FOR A LOAD, CONSIDER IT LIVE LOAD.

FIELD REVIEW

- DEPARTMENTAL REPRESENTATIVE WILL PROVIDE PERIODIC FIELD REVIEW OF A REPRESENTATIVE SAMPLE OF THE STRUCTURAL WORKS DETAILED ON THESE DRAWINGS FOR GENERAL CONFORMANCE WITH CONTRACT DOCUMENTS. THESE REVIEWS DO NOT REPLACE THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT AND MAINTAIN A QUALITY CONTROL PROGRAM, AND DO NOT MAKE DEPARTMENTAL REPRESENTATIVE A GUARANTOR OF THE CONTRACTOR'S WORK.
 - CONTRACTOR SHALL ASSIST THE DEPARTMENTAL REPRESENTATIVE DOING FIELD REVIEW, AND PROVIDE SAFE ACCESS TO WORK AREAS AS REQUIRED.
 - CHECK THE WORK PRIOR TO FIELD REVIEW TO CONFIRM IT IS COMPLETED AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
 - CONTRACTOR SHALL NOTIFY THE DEPARTMENTAL REPRESENTATIVE 48 HOURS PRIOR TO CONCRETE POURS, BACKFILLING, AND COVERING UP THE STRUCTURE WITH FINISHES.
- EXISTING STRUCTURE**
- EXISTING STRUCTURAL INFORMATION IS BASED UPON DRAWINGS PREPARED BY J.L. RICHARDS & ASSOCIATES LTD., DATED DECEMBER 1967.
 - EXISTING CONDITIONS ARE ASSUMED. SURVEY THE EXISTING STRUCTURE AFTER REMOVING FINISHES AND REPORT ANY VARIATIONS TO DEPARTMENTAL REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK.
 - TAKE ALL PRECAUTIONS NECESSARY TO PROTECT THE EXISTING STRUCTURE DURING CONSTRUCTION.
 - SCHEDULE WORK TO MINIMIZE EFFECT ON THE EXISTING BUILDING OPERATION. USE EQUIPMENT AND PROCEDURES TO MINIMIZE NOISE, DUST AND VIBRATIONS. SUBMIT PROPOSED SCHEDULE FOR REVIEW BY THE DEPARTMENTAL REPRESENTATIVE.
 - DO NOT PERMIT LOADS FROM CONCRETE FORMWORK TO BE TRANSMITTED TO ADJACENT EXISTING STRUCTURES.
 - ALL DEMOLITION, SHORING, AND OTHER TEMPORARY WORKS TO BE DESIGNED BY A PROFESSIONAL ENGINEER RETAINED BY THE CONTRACTOR, LICENSED IN THE PLACE WHERE THE PROJECT IS LOCATED. PREPARE DRAWINGS SIGNED AND SEALED BY THAT ENGINEER SHOWING DEMOLITION PROCEDURE AND SEQUENCE AND ALL THE NECESSARY SHORING AND SUBMIT TO THE DEPARTMENTAL REPRESENTATIVE FOR REVIEW.
 - UNDERTAKE CHIPPING, CUTTING, CORING, REPAIRS, PATCHING, AND REMOVAL OF DEBRIS. MAKE CUTS WITH THE PROPER SAWS AND BITS WHEN A CLEAN LINE IS REQUIRED. REFER TO CUTTING AND CORING SECTION FOR ADDITIONAL PROCEDURES.
 - DO NOT ALTER MATERIAL PROPERTIES OF THE STRUCTURAL STEEL WHICH IS TO REMAIN BY CUTTING AND DEMOLITION PROCEDURE. SUBMIT ALL PROCEDURES FOR REVIEW PRIOR TO PROCEEDING WITH THE WORK.
 - MAKE GOOD ALL EXISTING WORK DISTURBED BY SHORING OPERATIONS, EXCAVATION AND OTHER CONSTRUCTION PROCEDURES.

CONCRETE

- CONCRETE IS SPECIFIED PER ALTERNATIVE 1 - PERFORMANCE SPECIFICATION, AS OUTLINED IN CSA A23.1:19/A23.2:19. THE CONTRACTOR AND THE CONTRACTORS SUB-TRADE TO MEET ALL CERTIFICATION, DOCUMENTATION, AND QUALITY CONTROL REQUIREMENTS.
- THE CONTRACTORS SUB-TRADE TO BE CERTIFIED BY THE READY MIXED CONCRETE ASSOCIATION OF ONTARIO.
- CONCRETE TO BE NORMAL DENSITY (MIN. 2300 kg/m³) UNLESS NOTED OTHERWISE.
- CEMENT TO BE PORTLAND CEMENT TYPE GU, UNLESS NOTED OTHERWISE OR REQUIRED BY EXPOSURE CLASS. CEMENT TO CONFORM TO CSA A3000.
- AGGREGATE TO CONFORM TO CSA A23.1:19 / A23.2:19. DO NOT USE RECYCLED CONCRETE AS AGGREGATE.
- CONCRETE ADMIXTURES SHALL NOT CONTAIN CHLORIDES.
- SUBMIT CONCRETE MIX DESIGNS TO DEPARTMENTAL REPRESENTATIVE.
- INTERIOR APPLICATIONS:
 - EXPOSURE CLASS: N
 - MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS: 25 MPa.
 - NOMINAL SIZE OF COARSE AGGREGATE: 20
 - NOMINAL SIZE OF COURSE AGGREGATE FOR:
 - TOPPING BETWEEN 25 AND 35 MM THICK: 10mm
 - TOPPING BETWEEN 35 AND 50 MM THICK: 14mm
- PROTECT CONCRETE FROM EXCESSIVE HEAT AND DRYING. USE HOT WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA A23.1/A23.2 WHENEVER THE OUTDOOR TEMPERATURE IS GREATER THAN 27°C.
- PROTECT CONCRETE FROM FREEZING. USE COLD WEATHER CONCRETING METHODS IN ACCORDANCE WITH CSA A23.1/A23.2 WHENEVER OUTDOOR TEMPERATURE IS LESS THAN +5°C. ALL INSULATED COVERS, HEATERS, AND OTHER MATERIALS NEEDED TO PROTECT CONCRETE TO BE ON HAND PRIOR TO POUR. DELIVER CONCRETE AT A TEMPERATURE BETWEEN +15°C AND +27°C. ENSURE A MINIMUM CONCRETE TEMPERATURE OF 10° IS MAINTAINED THROUGHOUT THE CURING PERIOD (MINIMUM 3 DAYS).
- FORMWORK DESIGN, MATERIAL, FABRICATION, AND ERECTION TO CONFORM TO CSA S269.1
- FORMWORK MATERIAL TO BE NEW EXTERIOR PLYWOOD CONFORMING TO CSA O121, EXCEPT FOR ROUGH CONCRETE IN UNEXPOSED LOCATIONS (SUCH AS FOUNDATIONS) WHERE USED MATERIAL IS ACCEPTABLE.
- CURE CONCRETE SURFACES NOT IN CONTACT WITH FORMS IN ACCORDANCE WITH CSA A23.1:19 / A23.2:19. BY APPLICATION OF A CURING-SEALING COMPOUND CONFORMING TO ASTM C309 IMMEDIATELY AFTER DISAPPEARANCE OF SURFACE WATER SHEEN. ENSURE CURING-SEALING COMPOUND IS COMPATIBLE WITH APPLIED FINISHES.

CONCRETE REINFORCEMENT

- REINFORCEMENT - DEFORMED BAR REINFORCEMENT CONFORMING TO CSA G30:18 GRADE 400R. USE 400W ONLY WHERE NOTED ON DRAWINGS.
- WELDED WIRE FABRIC - CONFORM TO ASTM A1064/A1064M. YIELD STRENGTH 450 MPa. SUPPLIED IN FLAT SHEETS ONLY. LAP WELDED WIRE FABRIC SHEETS BY ONE SPAACING OF CROSS WIRES + 50, MEASURED BETWEEN THE OUTERMOST CROSS WIRES IN EACH SHEET. IN SLABS, PLACE AT 1/3 SLAB THICKNESS BELOW TOP OF SLAB.
- ACCESSORIES, BAR SUPPORTS, AND TIES TO CONFORM TO REINFORCING STEEL INSTITUTE OF CANADA (RSIC) MANUAL OF STANDARD PRACTICE AND CSA A23.1:19 / A23.2:19.
- ALL REINFORCING BAR SIZES ARE METRIC; "M" IS NOT NECESSARILY MARKED AFTER A BAR SIZE. FOR EXAMPLE, 10-15B NOTED ON PLAN INDICATES 10 BARS OF 15M DIAMETER, PLACED AT BOTTOM.
- SUBMIT SHOP DRAWINGS FOR REINFORCEMENT DETAILED IN ACCORDANCE WITH THE RSIC MANUAL OF STANDARD PRACTICE. SUBMIT PLANS AND DETAILS NECESSARY TO FABRICATE, PLACE, AND REVIEW REINFORCEMENT.
- ALL REBAR HOOKS TO BE STANDARD LENGTH 90° OR 180° HOOKS. REBAR LENGTHS LISTED ON DRAWINGS DO NOT INCLUDE THE HOOK LENGTH.
- FIELD BENDING OF BARS IS NOT PERMITTED UNLESS INDICATED OR APPROVED BY DEPARTMENTAL REPRESENTATIVE. APPROVED FIELD BENDING TO BE DONE WITHOUT THE USE OF HEAT, THROUGH APPLICATION OF SLOW AND STEADY PRESSURE. REPLACE BARS WITH CRACKS OR SPLITS.
- ALL REINFORCING TO BE CLEAN, FREE OF LOOSE SCALE, OIL, DIRT, RUST, AND ANY OTHER FOREIGN COATING THAT AFFECT BONDING CAPACITY.
- UNLESS OTHERWISE NOTED, LAP ALL HORIZONTAL GRADE BEAM REINFORCING WITH CLASS B LAPS. CARRY CONTINUOUSLY THROUGH PIERS AND PILE CAPS WHERE APPLICABLE.
- FOR CLASS N CONCRETE, MINIMUM CONCRETE COVER TO REINFORCING BARS CLOSEST TO THE CONCRETE SURFACE TO BE 40 FOR BEAMS AND COLUMNS AND 25 FOR SLABS AND WALLS.
- ENSURE COVER TO REINFORCEMENT IS MAINTAINED DURING CONCRETE POUR.

MASONRY

- CONFORM TO CAN/CSA-A371-14(R2019) AND CSA S304.1.
- UNLESS OTHERWISE NOTED ON PLANS, MATERIALS TO BE:
 - HOLLOW BLOCK: CSA A165.1-14(R2019) - H15/A/M
 - SOLID BLOCK: CSA A165.1-14(R2019)- SF15/A/M
 - MORTAR: CAN/CSA-A179 - TYPE S, PROPORTIONED BY VOLUME.
 - MASONRY GROUT: CAN/CSA-A179, PROPORTIONED BY VOLUME - COARSE GROUT, 1:3:2 - CEMENT: SAND: MAX 9.5 AGGREGATE, OR FINE GROUT, 1:3 - CEMENT:SAND, OR APPROVED PRE-BAGGED MATERIAL
- NON-LOAD-BEARING MASONRY WALLS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. SEE ARCHITECTURAL DRAWINGS.
- UNLESS NOTED OTHERWISE, LAY UNITS IN RUNNING BOND. ALL FACE SHELLS TO BE FULLY BEDDED.
- DO NOT USE MORTAR WHERE GROUT IS SPECIFIED.
- UNLESS OTHERWISE NOTED, PROVIDE DEFORMED, LADDER TYPE HORIZONTAL JOINT REINFORCING (TO SUIT THE WALL THICKNESS) PER ARCHITECTURAL SPECIFICATIONS. STAGGER LAPS MIN. 750 FROM COURSE TO COURSE. CLIP OFF CROSS RODS AT LAPS TO KEEP WIRES IN ONE PLANE. FOR UNREINFORCED WALLS, IT IS ACCEPTABLE TO USE TRUSS TYPE INSTEAD OF LADDER TYPE JOINT REINFORCING.
- FOR WALLS SHOWN TO BE LAID IN STACK BOND, PROVIDE HORIZONTAL JOINT REINFORCING IN EVERY BED JOINT.
- PROVIDE HORIZONTAL JOINT REINFORCING IN THE FIRST TWO BED JOINTS ABOVE AND BELOW EACH WALL OPENING AND EXTEND 600 (2'-0") BEYOND EACH SIDE OF OPENING.
- UNLESS OTHERWISE NOTED, USE CORNER TYPE LADDER REINFORCING AT MASONRY WALL CORNERS AND INTERSECTIONS.
- UNLESS OTHERWISE NOTED, INTERLOCK MASONRY COURSES AT WALL CORNERS.
- TOOL JOINTS IN ALL WALLS SHOWN ON STRUCTURAL DRAWINGS (WHETHER EXPOSED OR NOT IN THE FINISHED BUILDING) TO PROVIDE HARD, DENSE JOINTS.
- PROVIDE LATERAL SUPPORT AT TOPS OF ALL WALLS. REFER TO TYPICAL DETAILS TM-LATS-13 AND ARCHITECTURAL SPECIFICATIONS. LOCATE MAX 300 FROM WALL ENDS AND MOVEMENT JOINTS.
- UNLESS OTHERWISE NOTED, PROVIDE MINIMUM 25 DEFLECTION GAP AT TOP OF ALL NON-LOAD BEARING MASONRY WALLS.
- PROVIDE TEMPORARY BRACING FOR LOAD BEARING MASONRY WALLS UNTIL THE SUPPORTED STRUCTURE, WHICH PROVIDES PERMANENT BRACING, IS COMPLETED.
- PROVIDE STANDARD LINTELS OVER ALL OPENINGS IN NON-LOAD BEARING MASONRY WALLS. REFER TO ARCHITECTURAL DRAWINGS AND TYPICAL DETAILS TM-WALL-01, TM-WALL-11 TO TM-WALL-14. THE OPENINGS ARE NOT NECESSARILY SHOWN ON STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. USE ONLY FINE GROUT TO FILL MASONRY LINTELS.
- REINFORCED MASONRY:
 - SEE PLANS AND DETAILS FOR STRUCTURAL MASONRY REINFORCING.
 - FOR NON-LOAD BEARING MASONRY, SEE TYPICAL DETAIL TM-WALL-01 FOR MINIMUM SEISMIC MASONRY REINFORCING.
 - DO NOT PLACE CONDUITS IN, NOR ALLOW OVER-HANGING MORTAR OR DEBRIS INSIDE, MASONRY CELLS TO BE REINFORCED.
 - SPLICES FOR MASONRY WALL REINFORCING TO BE:
 - WIRE REINFORCING: 300
 - 10M BARS: 450
 - 15M BARS: 650
 - 20M BARS: 900
 - 25M BARS: 1300
- LOCATE VERTICAL BARS ACCURATELY WITHIN CELLS AS INDICATED ON DRAWINGS. HOLD IN POSITION TOP AND BOTTOM. USE REBAR POSITIONERS AS REQUIRED.
- LOCATE TOP / BOTTOM HORIZONTAL BARS IN MASONRY BEAMS AND LINTELS 50 (2") CLEAR FROM TOP / UNDERSIDE OF BEAM.
- EXTEND ALL VERTICAL REINFORCING TO WITHIN 50 FROM TOP OF WALL.
- CARRY ALL VERTICAL REINFORCING CONTINUOUSLY THROUGH BOND BEAMS AND MASONRY LINTELS.
- PROVIDE VERTICAL DOWELS AT BASE OF WALLS TO MATCH VERTICAL REINFORCING. UNLESS OTHERWISE NOTED ON DRAWINGS, EMBED INTO SLAB WITH STANDARD HOOKS OR PROVIDE CLASS B LAP INTO FOUNDATION WALLS BELOW (AS APPLICABLE).
- REINFORCE SIDES OF ALL WALL OPENINGS EXCEEDING 1000 IN WIDTH WITH ADDITIONAL 1-15 VERTICAL. CARRY FULL HEIGHT OF WALL. WHERE STEEL OR PRECAST CONCRETE LINTELS ARE USED, OFFSET VERTICALS TO CLEAR LINTEL BEARINGS.
- UNLESS OTHERWISE NOTED, ADD 1-15 VERTICAL AT WALL ENDS, AND AT EACH SIDE OF MOVEMENT JOINTS.
- THE ADDITIONAL REINFORCING SPECIFIED IN THE CLAUSES ABOVE IS NOT NOTED ON PLANS.
- SEE TYPICAL DETAILS FOR ADDITIONAL REINFORCING UNDER STEEL BEAM AND STEEL JOIST BEARINGS.
- GROUTED MASONRY:
 - UNLESS MASONRY WALLS ARE NOTED AS "FULLY GROUTED" OR "GROUTED SOLID", GROUT ONLY CELLS CONTAINING VERTICAL OR HORIZONTAL REINFORCEMENT AND ANCHOR RODS OR STRAPS, AND OTHER AREAS SPECIFICALLY INDICATED ON DRAWINGS.
 - USE ONLY FINE GROUT TO FILL BOND BEAMS.
 - USE LOW LIFT GROUTING PROCEDURE UNLESS OTHERWISE APPROVED IN WRITING BY DEPARTMENTAL REPRESENTATIVE. PLACE GROUT IN LIFTS NOT EXCEEDING 1500 HEIGHT. TERMINATE EACH LIFT 40 BELOW TOP OF MASONRY UNIT.
 - USE POLYPROPYLENE GROUT SCREENS BELOW BOND COURSES AND GROUTED BLOCKS TO ISOLATE GROUT FLOW IN DESIGNATED AREAS. DO NOT USE BUILDING PAPER.
 - SEE TYPICAL DETAILS FOR GROUTING UNDER STEEL BEAM AND STEEL JOIST BEARINGS.

CUTTING AND CORING

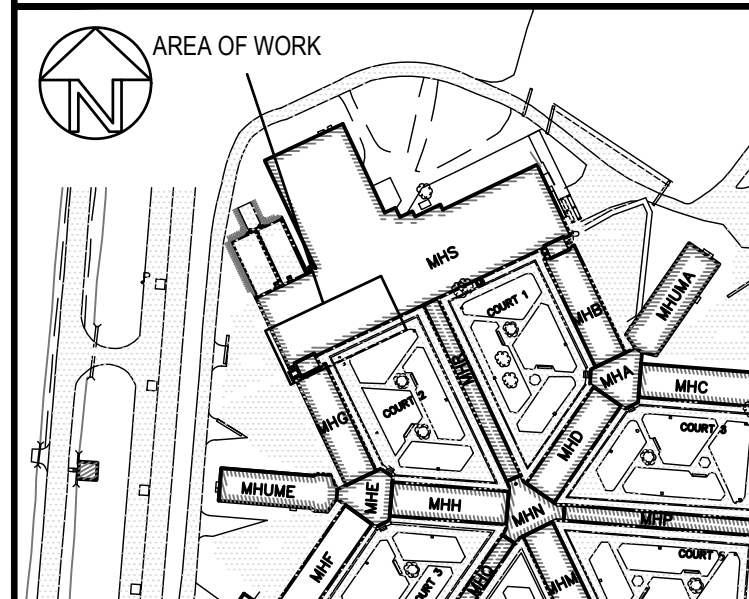
- RETAIN AN INDEPENDENT TESTING COMPANY TO LOCATE AND MARK EXISTING REINFORCEMENT AND CONDUIT IN THE AREAS OF PROPOSED OPENINGS USING A NON-DESTRUCTIVE METHOD. IF LOCATIONS ARE NOT ACCEPTABLE TO DEPARTMENTAL REPRESENTATIVE RELOCATE PROPOSED OPENINGS AND REPEAT PROCESS AT NO EXTRA COST TO THE CONTRACT.
- CORING: DO NOT CUT EXISTING REINFORCEMENT OR CONDUIT WHEN CORING EXISTING CONCRETE UNLESS APPROVED IN ADVANCE BY DEPARTMENTAL REPRESENTATIVE. SAVE COMPLETE LENGTH OF ALL CORES AND LABEL WITH LOCATION TAKEN. MAKE ALL CORES AVAILABLE FOR REVIEW. DO NOT DISPOSE OF CORES WITHOUT DEPARTMENTAL REPRESENTATIVE APPROVAL.
- CUTTING: DO NOT CUT EXISTING REINFORCEMENT AND CONDUIT UNLESS APPROVED IN ADVANCE BY DEPARTMENTAL REPRESENTATIVE. DO NOT OVERCUT OPENINGS. CORE FOUR CORNERS AND ENDS OF INTERMEDIATE SAWCUTS OF ALL OPENINGS PRIOR TO CUTTING SIDES AND INTERMEDIATE LINES. CHIP CORNERS SQUARE AFTER SAWCUTTING IF NECESSARY. IF NEW REINFORCEMENT IS REQUIRED AT AN OPENING, INSTALL IT BEFORE CUTTING OR SHORE THE STRUCTURE UNTIL THE NEW REINFORCEMENT IS INSTALLED.
- CUTTING: REFER TO TYPICAL DETAIL TC-SL-71 FOR CONCRETE SAWCUTTING PROCEDURE.

INSPECTION AND TESTING

- PROVIDE INSPECTION REPORTS PREPARED BY AN INDEPENDENT INSPECTION AND TESTING AGENCY FOR THE SCOPES LISTED BELOW. THE COST OF THE INSPECTION WILL BE BORNE BY THE CONTRACTOR. SELECTION OF INDEPENDENT INSPECTION AND TESTING AGENCY WILL BE BY DEPARTMENTAL REPRESENTATIVE.
- MAKE ONE STANDARD TEST FOR EACH 50 CUBIC METRES OF CONCRETE, BUT NOT LESS THAN ONE TEST FOR CONCRETE CAST EACH DAY. PROVIDE A GROUP OF THREE CONCRETE CYLINDERS FOR EACH STANDARD CONCRETE TEST IN ACCORDANCE WITH CSA A23.1:19 / A23.2:19.
- PROVIDE AT LEAST 3 CYLINDERS TO BE TESTED FOR EACH AN/20 CUBIC METRES OF MASONRY GROUT, IN ACCORDANCE WITH CAN/CSA-A179. MAKE AT LEAST ONE SET OF CYLINDERS EACH DAY THE GROUT IS PLACED.
- STRUCTURAL STEEL INSPECTION REPORTS TO INCLUDE VERIFICATION OF SPECIFIED MEMBER SIZES AND TOLERANCES AND INSPECTION OF WELDING, BOLTING AND REVIEW OF WELDERS' CWB CERTIFICATION AT THE CONTRACTORS COST, AND REPLACED WITH A PRODUCT THAT IS IN ACCORDANCE WITH THE SPECIFICATIONS.

REJECTED WORK

- DO NOT DELIVER MATERIALS WHICH ARE KNOWN NOT TO MEET THE REQUIREMENTS OF THE SPECIFICATIONS. IF REJECTED AFTER DELIVERY, REMOVE IMMEDIATELY FROM SITE.

**ARCHITECTURE | 49**


revision	description	date
1	ISSUED FOR TENDER	2021-06-22

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

	A	B	C
Detail No.	No. du détail		
drawing no. -- where detail required	dessin no. -- où détail exigé		
drawing no. -- where detailed	dessin no. -- où détaillé		

project title
titre du projet

MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON K0H 1G0
**DRY CELL RELOCATION –
STRUCTURED INTERVENTION UNIT**

drawing title
titre du dessin

GENERAL NOTES

drawn by
dessiné par

NH

designed by
conc. par

AC NH

approved by
approuvé par

AC

bid
offre

project manager
administrateur de projets

project date
date du projet

2021-02-19

project no.
no. du projet

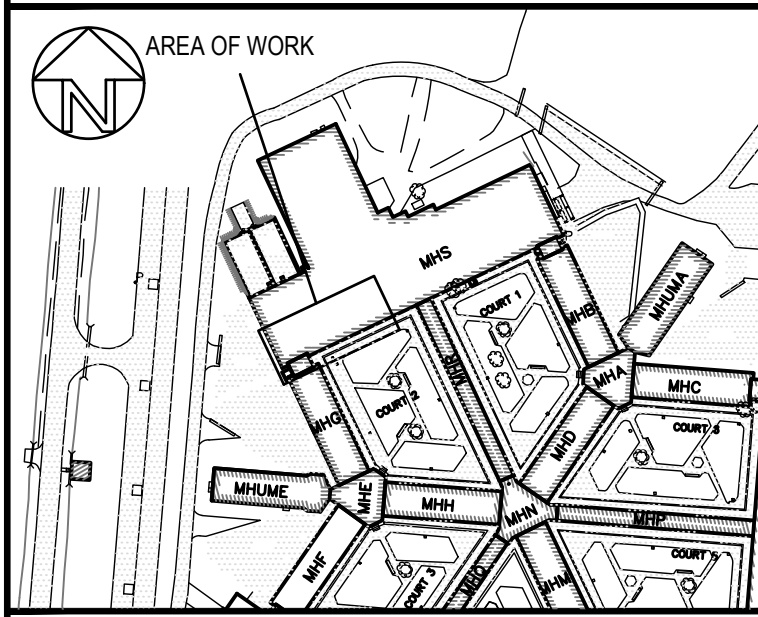
R.106776.001

drawing no.
dessiné no.

S-100

1
S100

GENERAL NOTES
NA.



1	ISSUED FOR TENDER	2021-06-22
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Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.	
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	drawing no. - où détail exigé	
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	drawing no. - où détaillé	

project title
 titre du projet
MILLHAVEN INSTITUTION
 CSC
 5775 BATH RD.
 BATH, ON K0H 1G0
DRY CELL RELOCATION - STRUCTURED INTERVENTION UNIT

drawing title
 titre du dessin
TYPICAL DETAILS

drawn by
 dessiné par
NH

designed by
 conc. par
AC NH

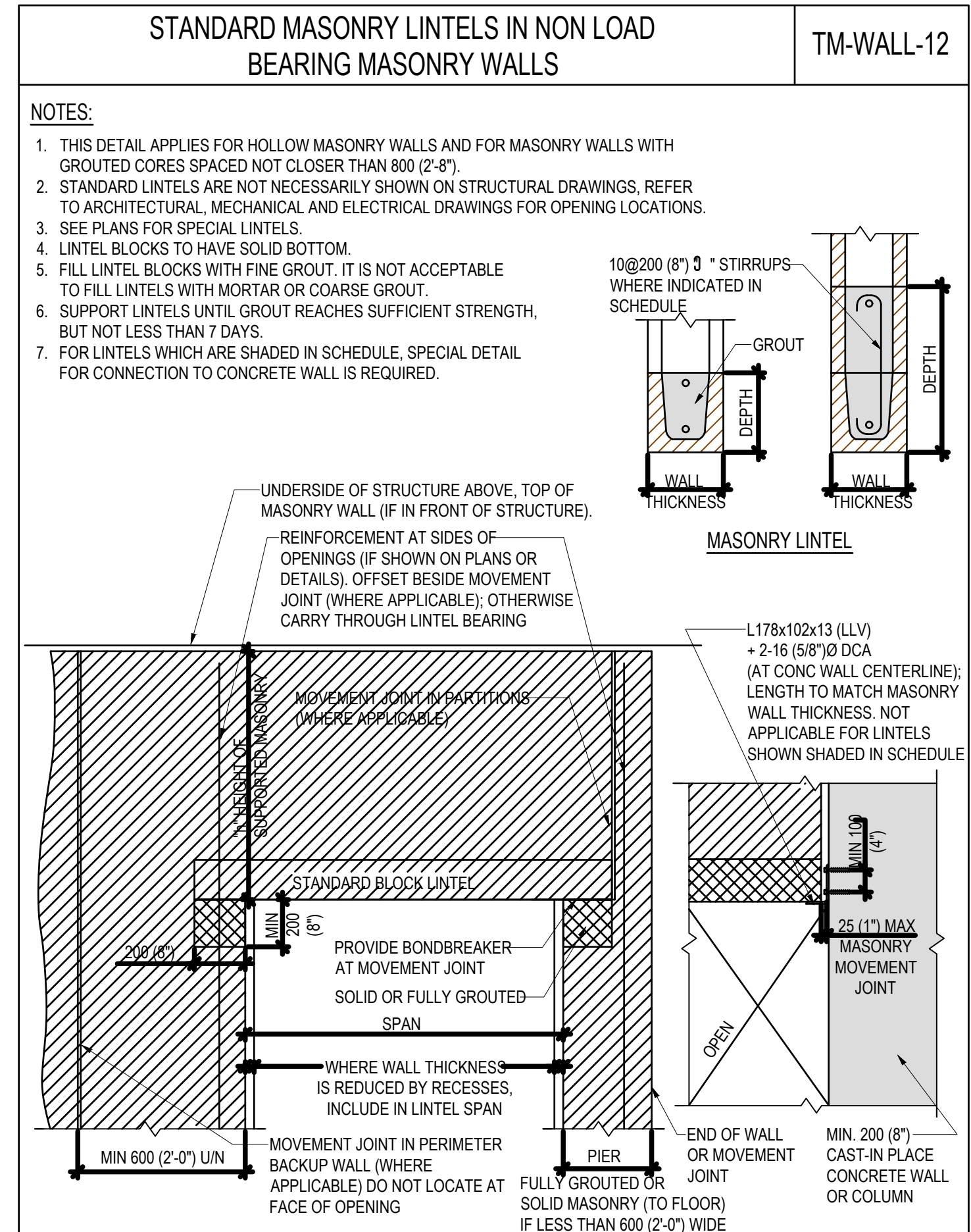
approved by
 approuvé par
AC

bid offre
 project manager
 administrateur de projets

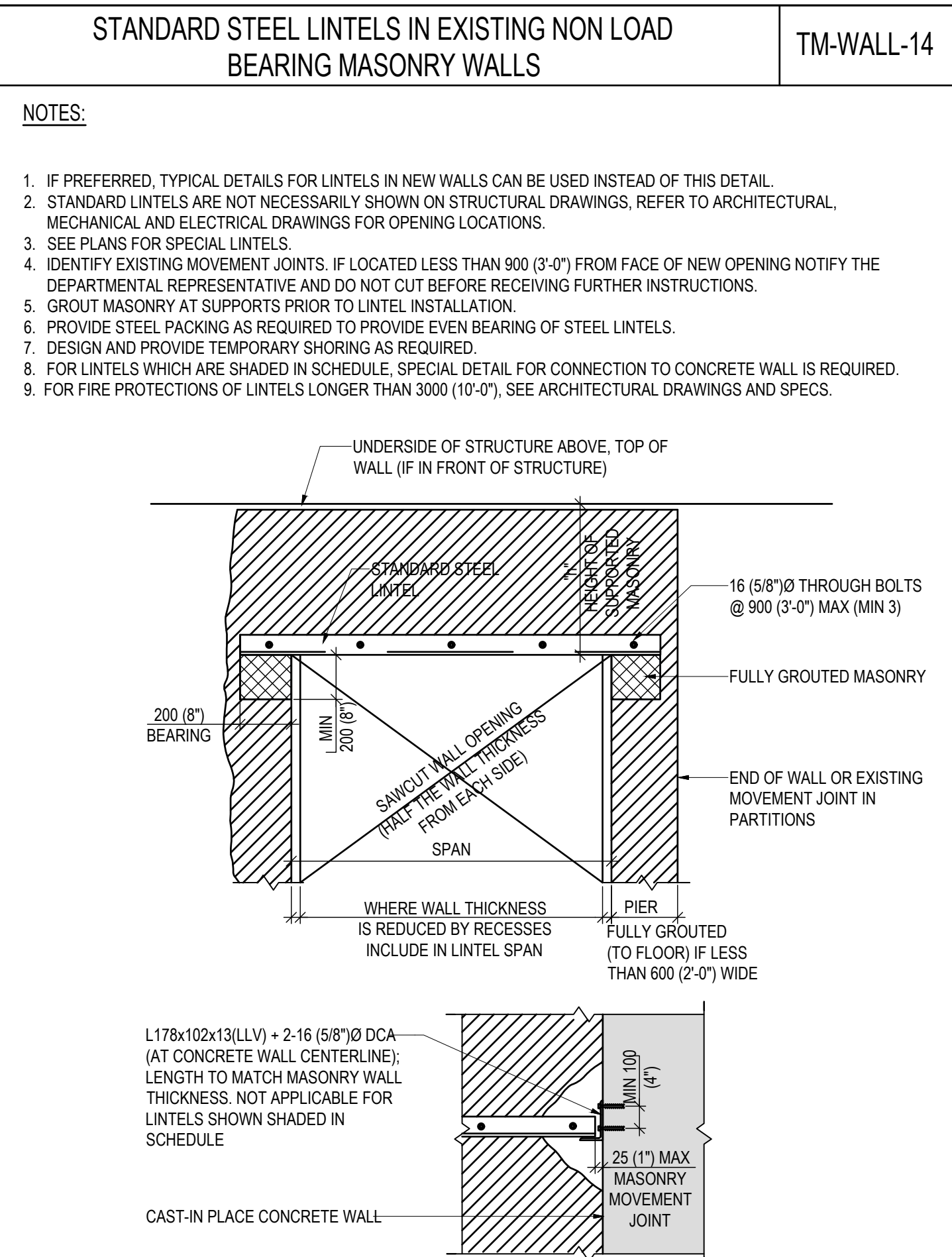
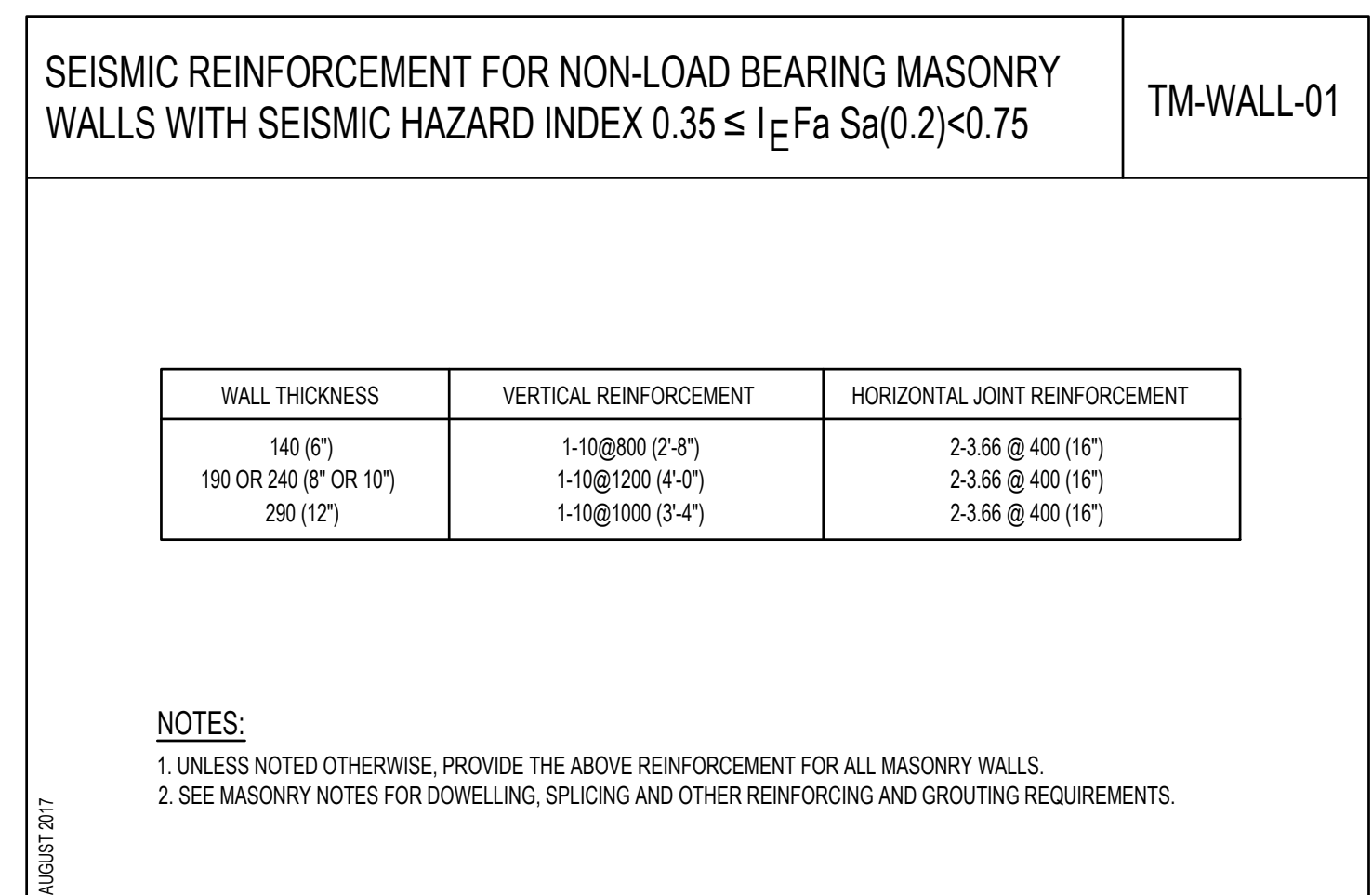
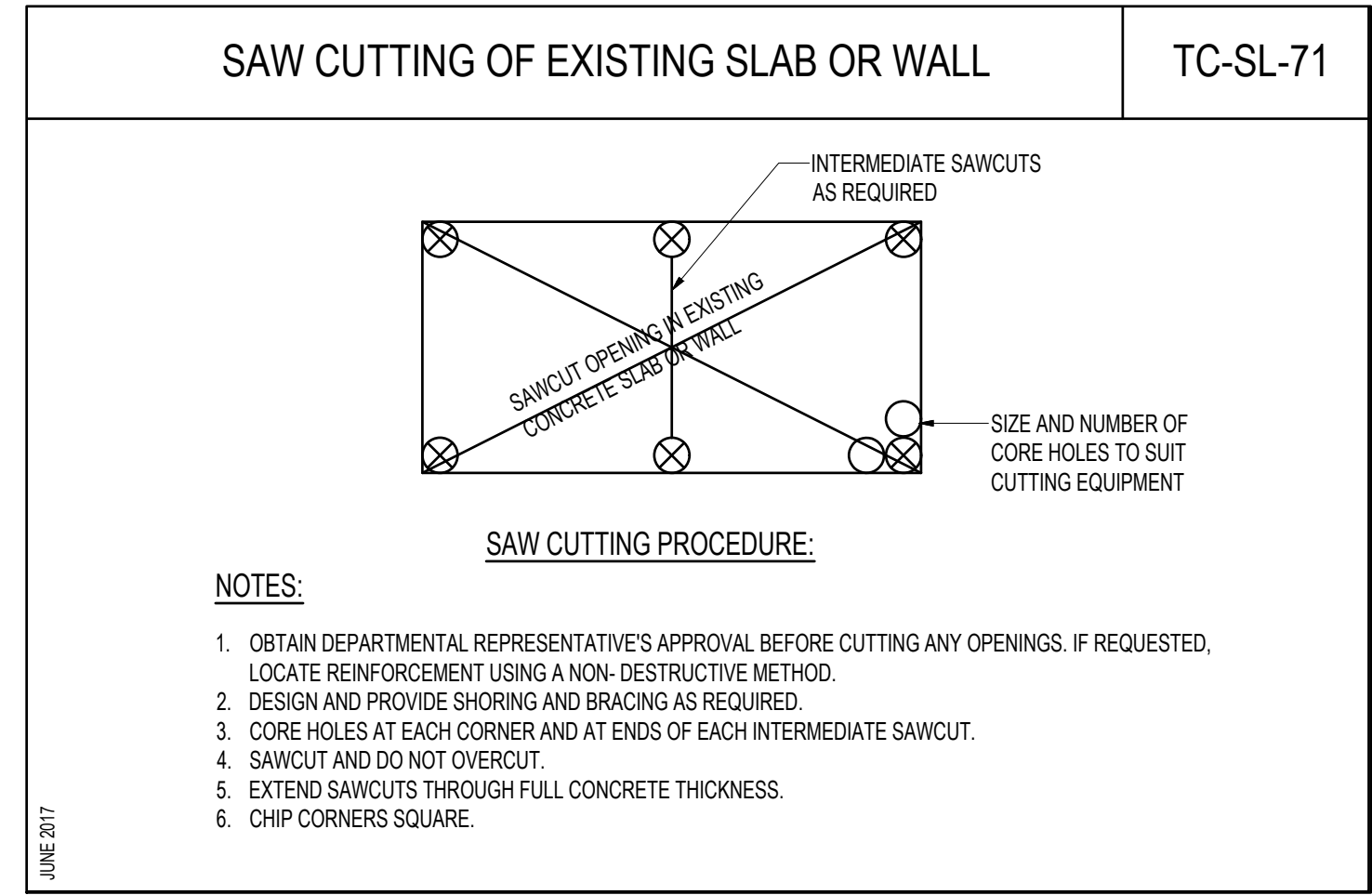
project date
 date du projet
2021-02-19

project no.
 no. du projet
R.106776.001

drawing no.
 dessin no.
S-101



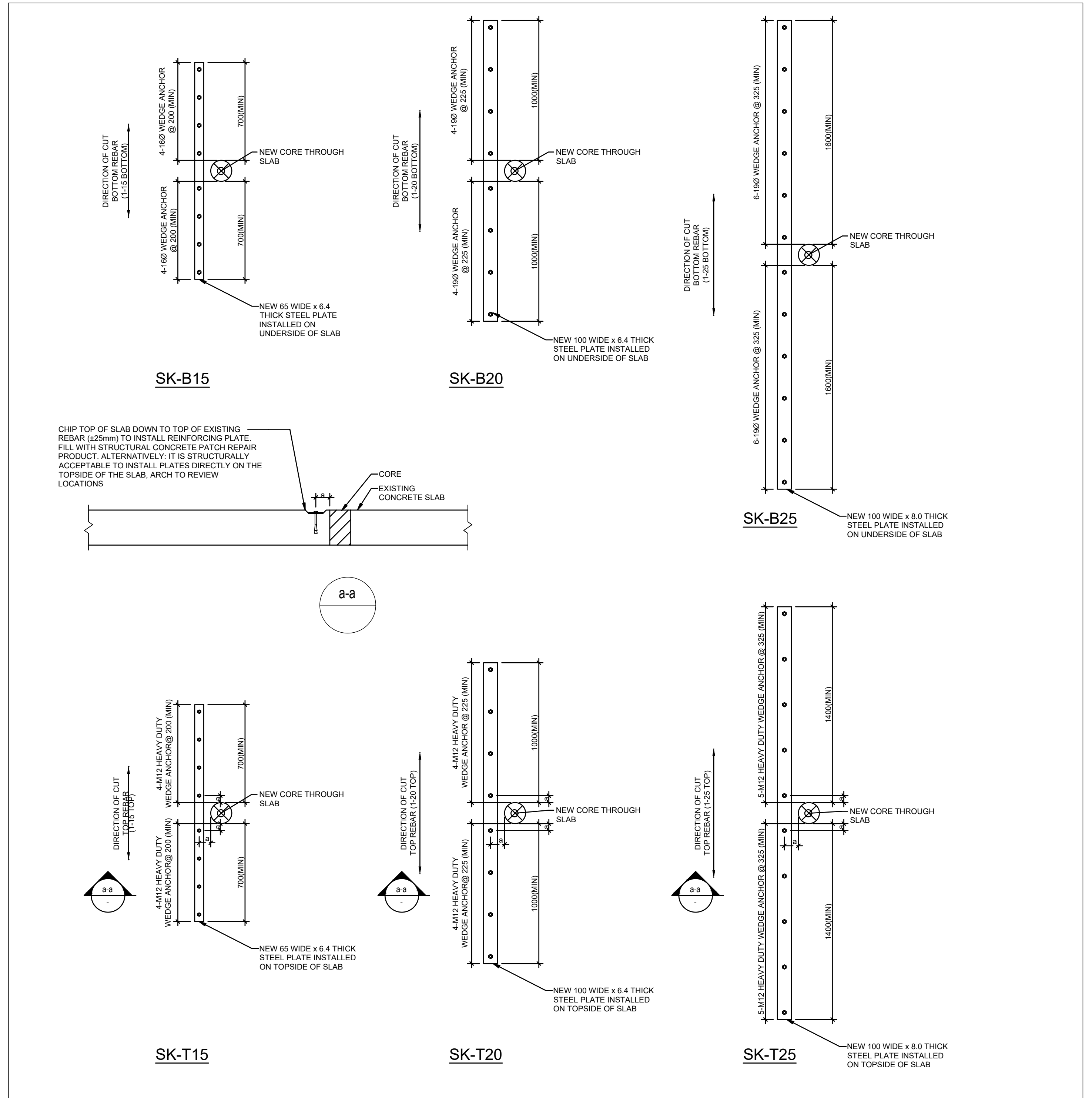
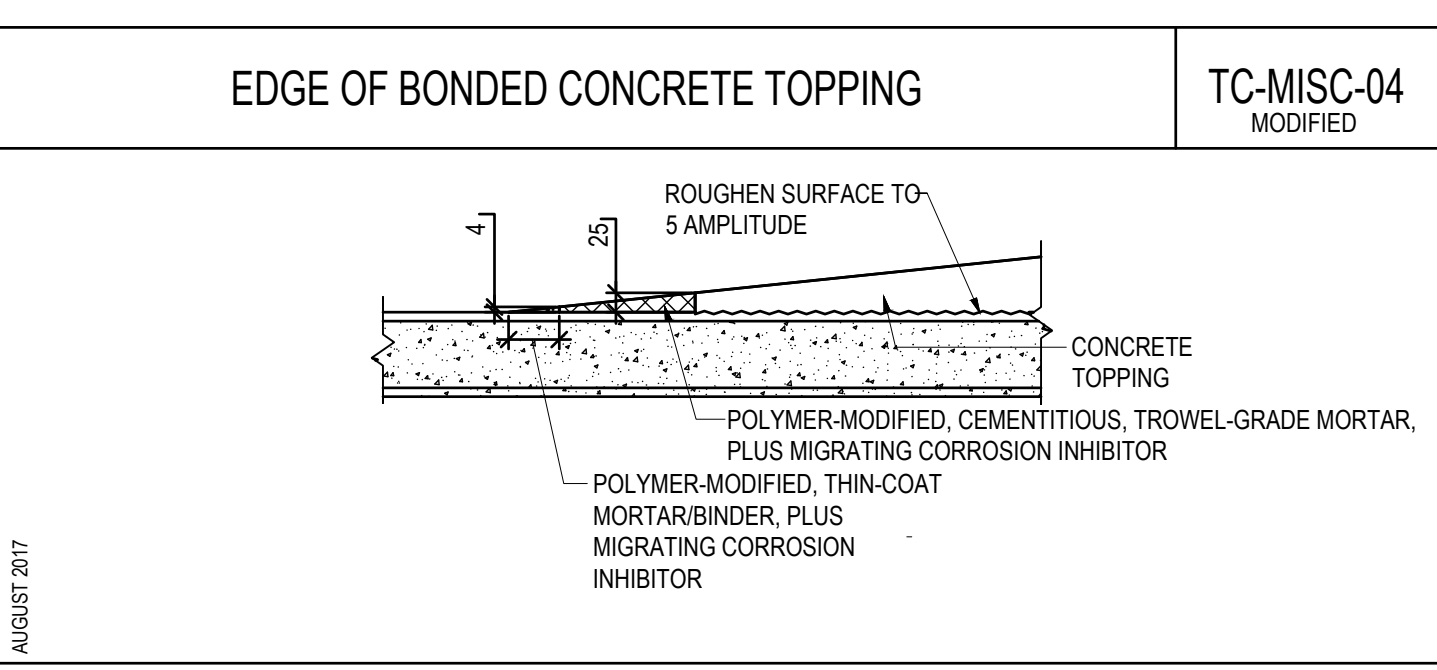
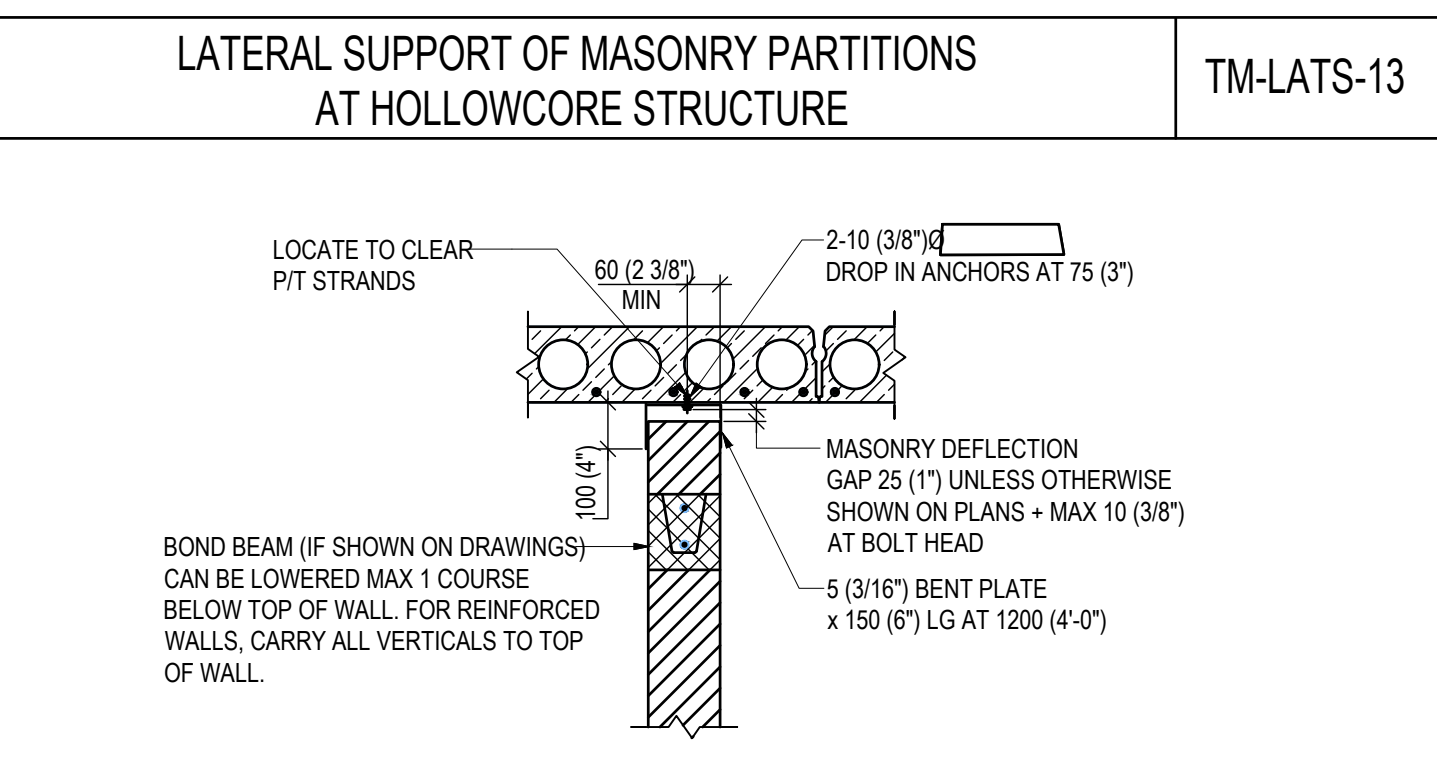
WALL THICKNESS	SPAN	HEIGHT OF SUPPORTED MASONRY "h"					
		h ≤ 1200 (4'-0")		1200 (4'-0") < h ≤ 2600 (8'-4")		2600 (8'-4") ≤ h ≤ 4800 (16'-0")	
		BLOCK LINTEL DEPTH	REIN: T&B	BLOCK LINTEL DEPTH	REIN: T&B	BLOCK LINTEL DEPTH	REIN: T&B
190 (8")	UP TO 1200 (4'-0")	190 (7 1/2")	1-10	190 (7 1/2")	1-10	390 (15 1/2")	1-15+STIRRUPS
	1200 (4'-0") TO 1800 (6'-0")	190 (7 1/2")	1-10	390 (15 1/2")	1-15+STIRRUPS	390 (15 1/2")	1-15+STIRRUPS
	1800 (6'-0") TO 2400 (8'-0")	390 (15 1/2")	1-15+STIRRUPS	390 (15 1/2")	1-15+STIRRUPS	590 (23 1/2")	1-15+STIRRUPS
	2400 (8'-0") TO 3000 (10'-0")	390 (15 1/2")	1-15+STIRRUPS	390 (15 1/2")	1-15+STIRRUPS	590 (23 1/2")	1-15+STIRRUPS
	3000 (10'-0") TO 3600 (12'-0")	390 (15 1/2")	1-15+STIRRUPS	590 (23 1/2")	1-15+STIRRUPS	590 (23 1/2")	1-20+STIRRUPS



EXISTING WALL

WALL THICKNESS	SPAN	HEIGHT OF SUPPORTED MASONRY "h"			DETAIL
		h ≤ 1200 (4'-0")	1200 (4'-0") < h ≤ 2600 (8'-4")	2600 (8'-4") ≤ h ≤ 4800 (16'-0")	
190 (8")	UP TO 1200 (4'-0")	2-1.89x89x6.4	2-1.89x89x6.4	2-1.89x89x6.4	
	1200 (4'-0") TO 1800 (6'-0")	2-1.89x89x6.4	2-1.89x89x6.4	2-1.102x89x6.4	
	1800 (6'-0") TO 2400 (8'-0")	2-1.102x89x7.9	2-1.102x89x7.9	2-1.127x89x7.9	
	2400 (8'-0") TO 3000 (10'-0")	2-1.102x89x7.9	2-1.152x89x7.9	2-1.152x89x6.5	
	3000 (10'-0") TO 3600 (12'-0")	2-1.127x89x7.9	2-1.152x89x6.5	N/A	

NEW WALL

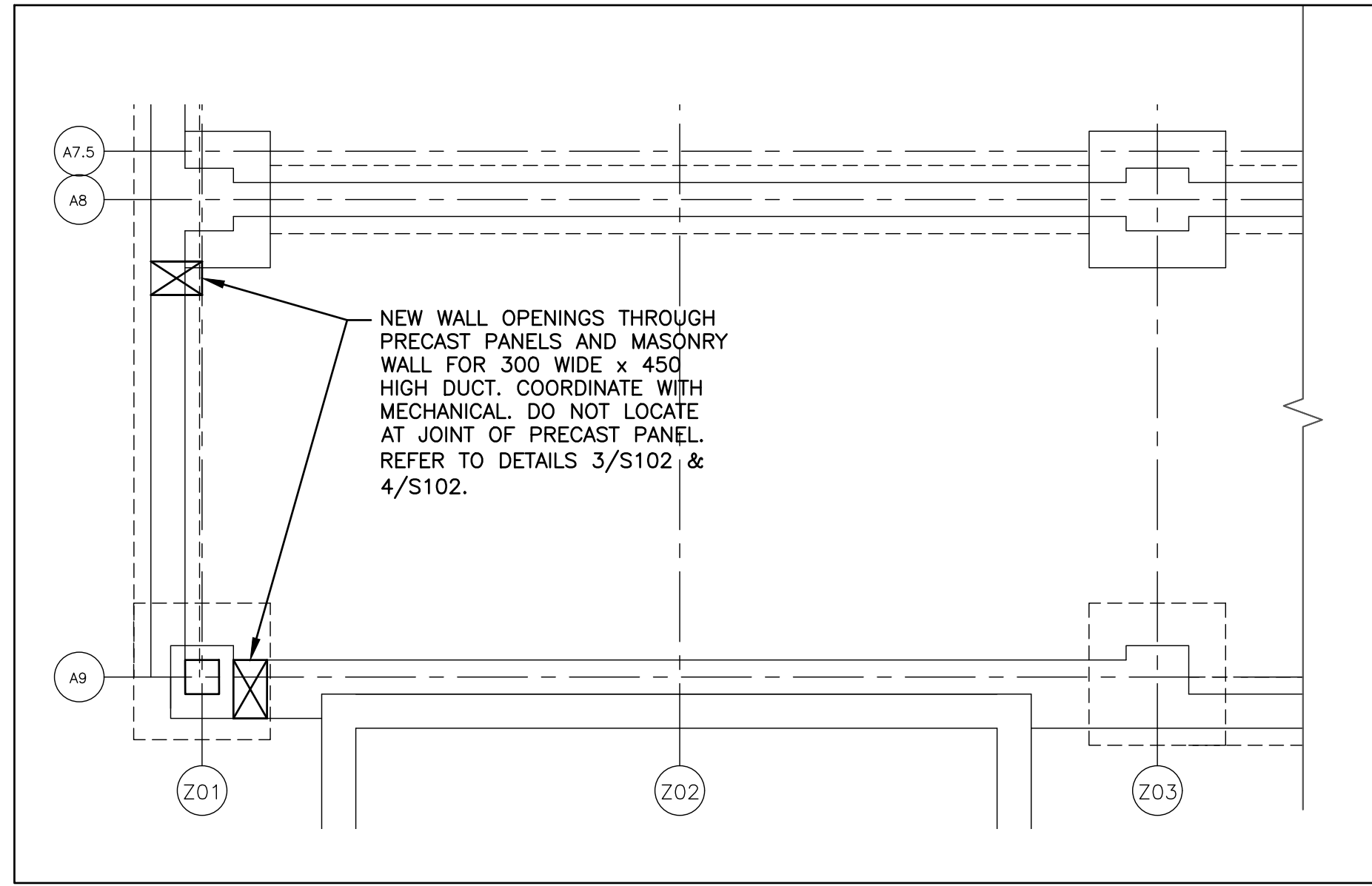


NOTES:

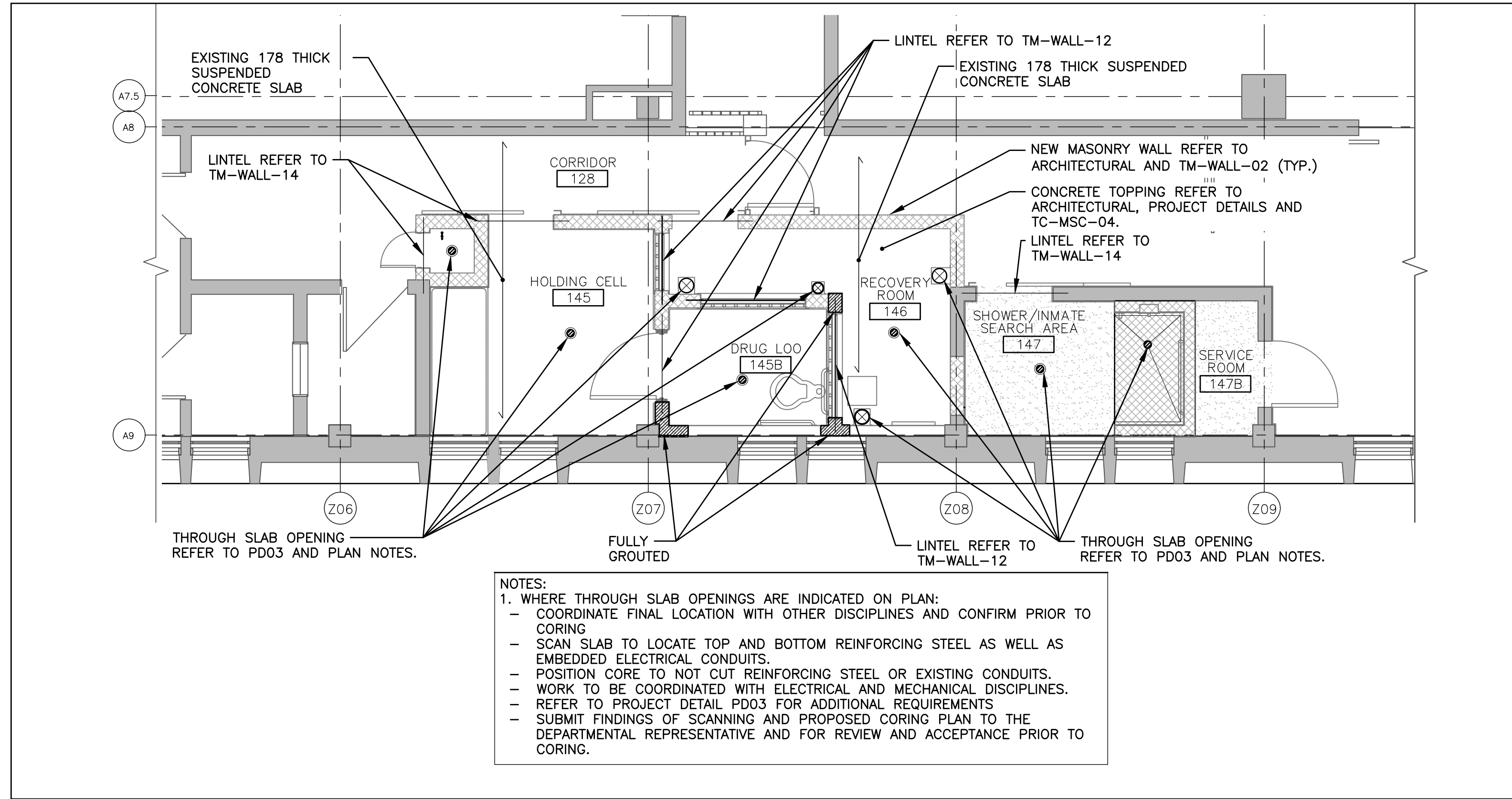
- SEE CUTTING & CORING NOTES FOR CORING PROCEDURES.
- SCAN TO LOCATE REINFORCING STEEL.
- SUBMIT ALL PROPOSED CORE LOCATIONS TO DEPARTMENTAL REPRESENTATIVE FOR REVIEW PRIOR TO CORING.
- NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY CUT REINFORCEMENT.
- DO NOT CUT ANY ADDITIONAL REINFORCEMENT.
- DO NOT IMPLEMENT SLAB CORE REMEDIATION WITHOUT DIRECT AUTHORIZATION BY DEPARTMENTAL REPRESENTATIVE.
- EXTEND PLATE AS REQUIRED TO MAINTAIN MINIMUM ANCHOR SPACING WHERE EXISTING REBAR INTERFERES WITH INSTALLATION.
- INTERSECTING STEEL PLATES MUST BE SPLICED FOR FULL PLATE CAPACITY. STEEL SUPPLIER TO SUBMIT SEALED SPLICE DETAILS.
- STEEL PLATES MUST BE INSTALLED A MINIMUM OF 600 AWAY FROM SLAB EDGES ON ALL SIDES (WALLS EXCLUDED.)
- MINIMUM ANCHOR EMBEDMENT: 100 (WEDGE ANCHOR); 80 (HEAVY DUTY WEDGE ANCHOR)
- ANCHORS: MEDIUM DUTY WEDGE ANCHOR, HEAVY DUTY WEDGE ANCHOR.
- CONFIRM THAT THE CUT BAR DIAMETER DOES NOT EXCEED THE DIAMETER INDICATED ON THE SPECIFIED DETAIL.
- REPORT ANY DISCREPANCIES TO DEPARTMENTAL REPRESENTATIVE.
- DIMENSION "h" VARIES AS PER SITE CONDITIONS, 250 MAX.

TYPICAL SLAB CORE REMEDIATION
 SUSPENDED SLAB LEVEL 1

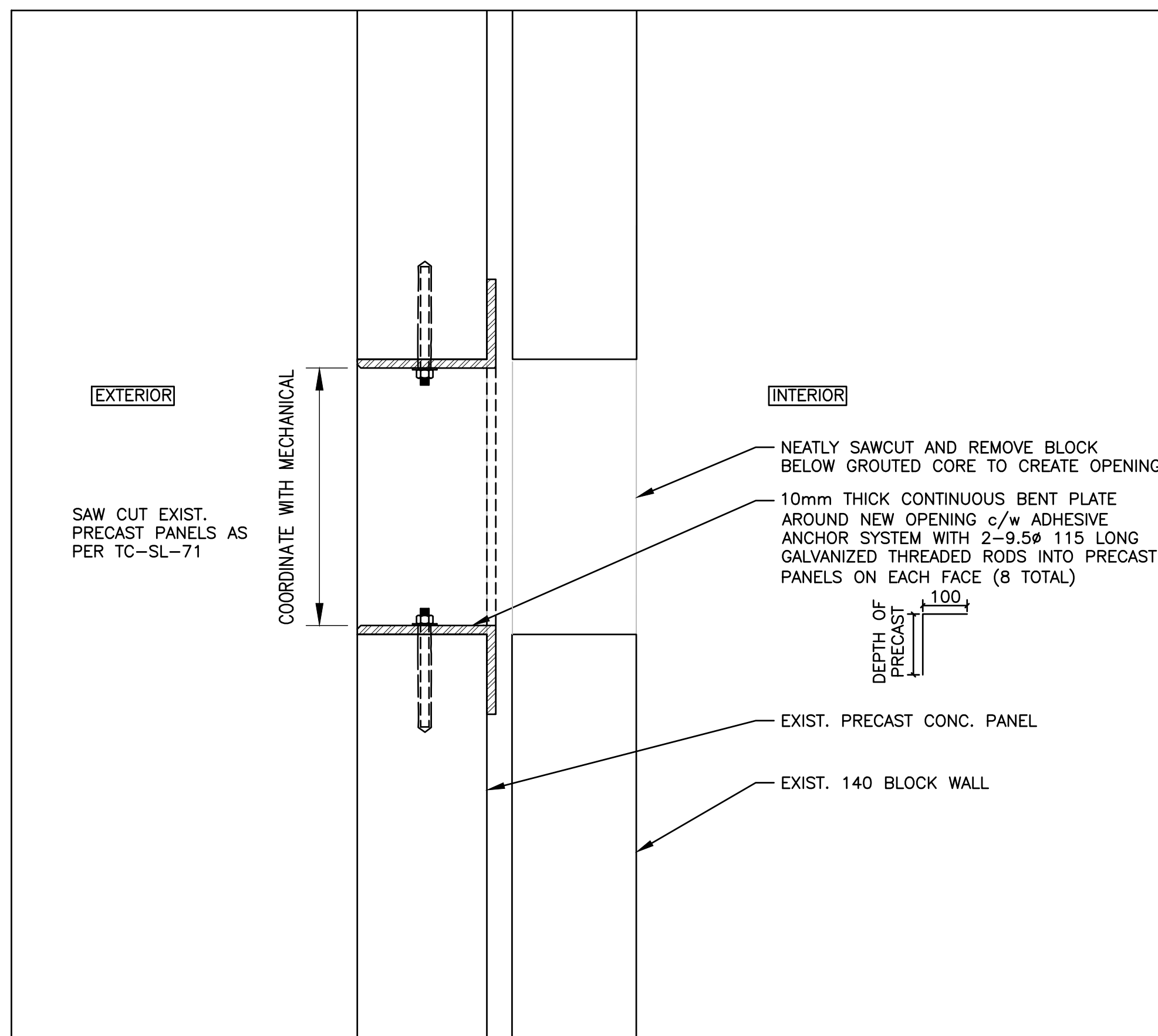
DETAILS
 PD03
 MAR 17



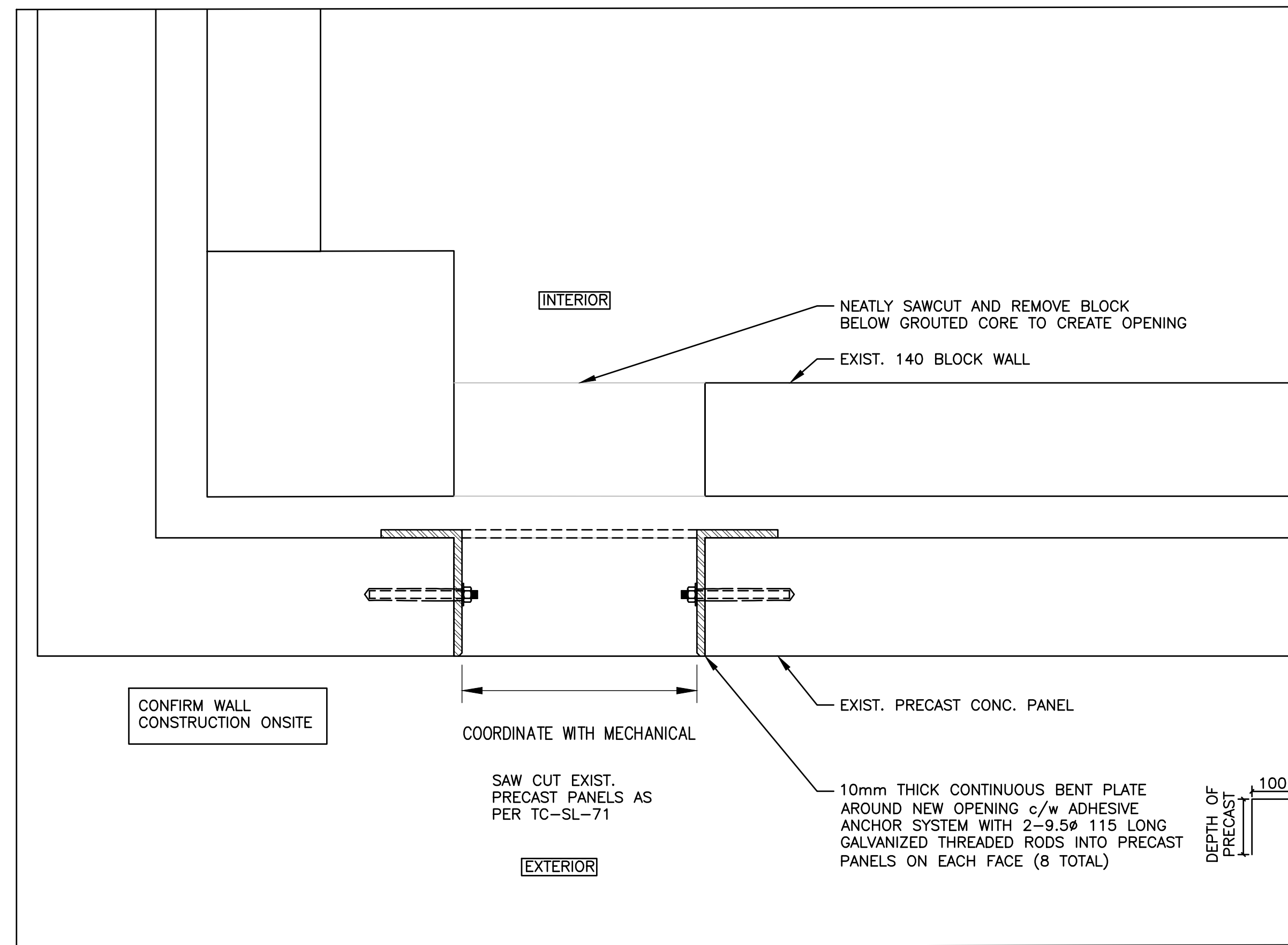
1 PART GROUND FLOOR PLAN
S102 1:50



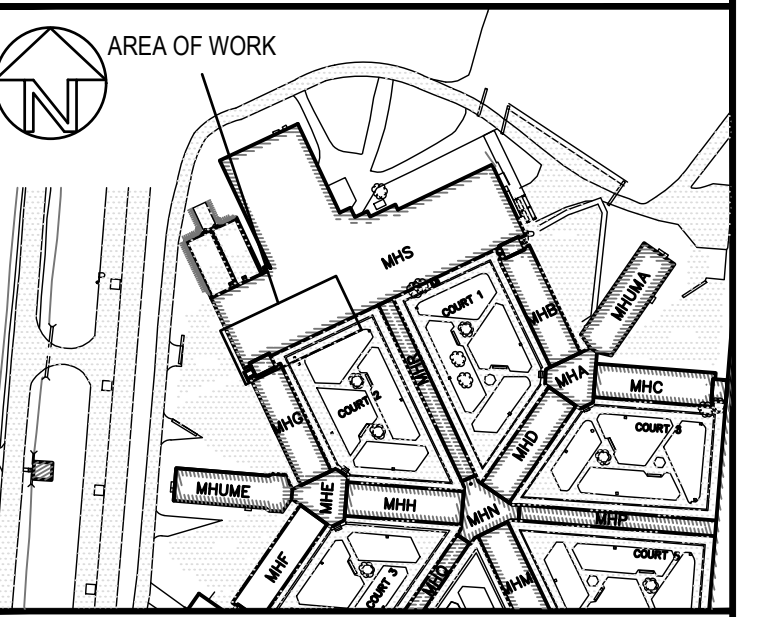
2 PART GROUND FLOOR PLAN
S102 1:50



3 MECH OPENING DETAIL
S102 1:5



4 MECH OPENING DETAIL
S102 1:5



ARCHITECTURE | 49



1	ISSUED FOR TENDER	2021-06-22
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Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.	No. du détail
B	drawing no. - where detail required	dessin no. - où détail exigé
C	drawing no. - where detailed	dessin no. - où détaillé

project title
titre du projet
MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON KOH 1G0
DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT

drawing title
titre du dessin
PART GROUND FLOOR PLANS & DETAILS

drawn by
dessiné par **NH**

designed by
conc par **AC NH**

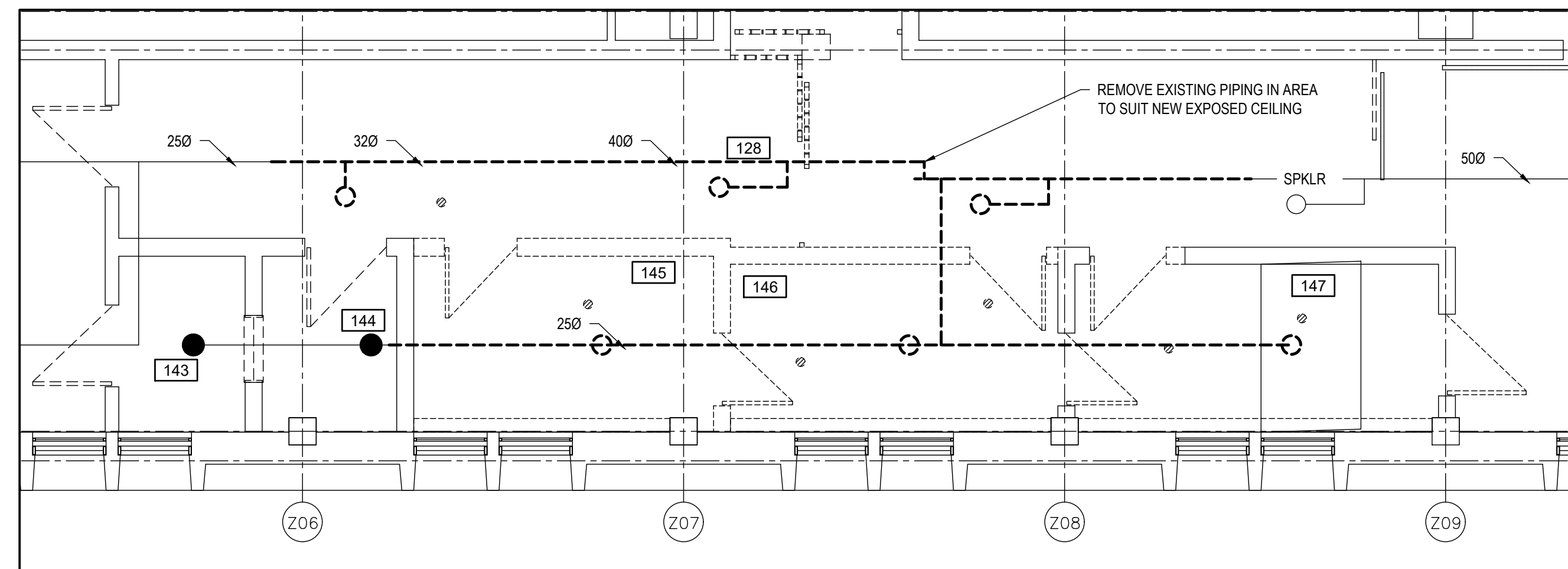
approved by
approuvé par **AC**

bid
offre project manager
administrateur de projets

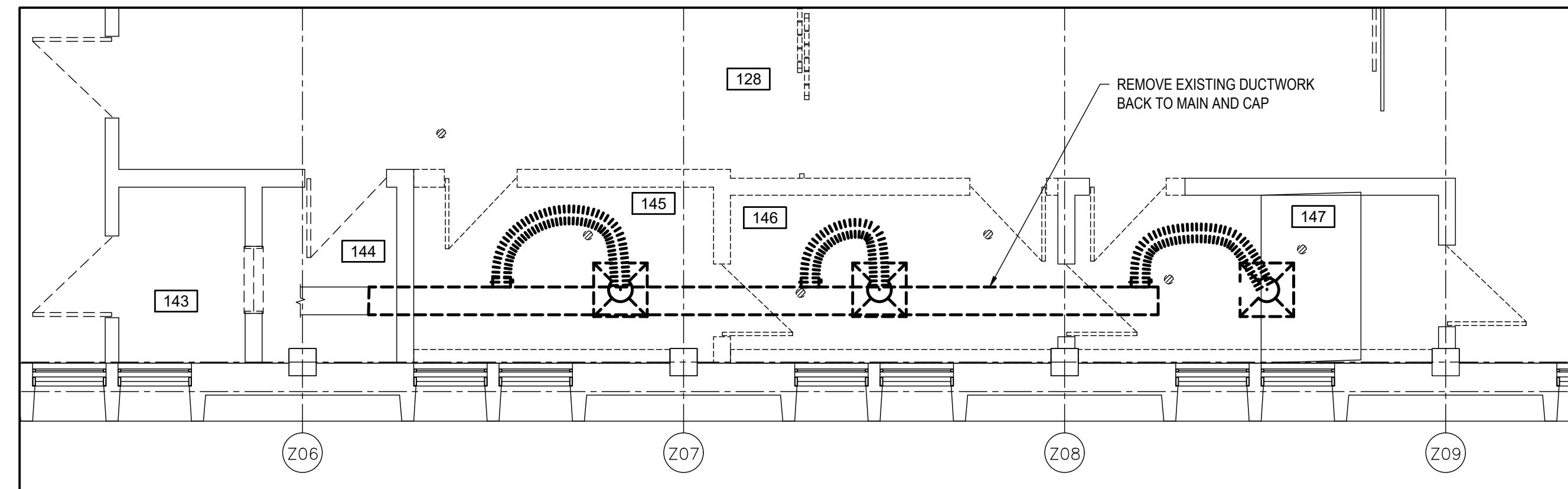
project date
date du projet **2021-02-19**

project no.
no. du projet **R.106776.001**

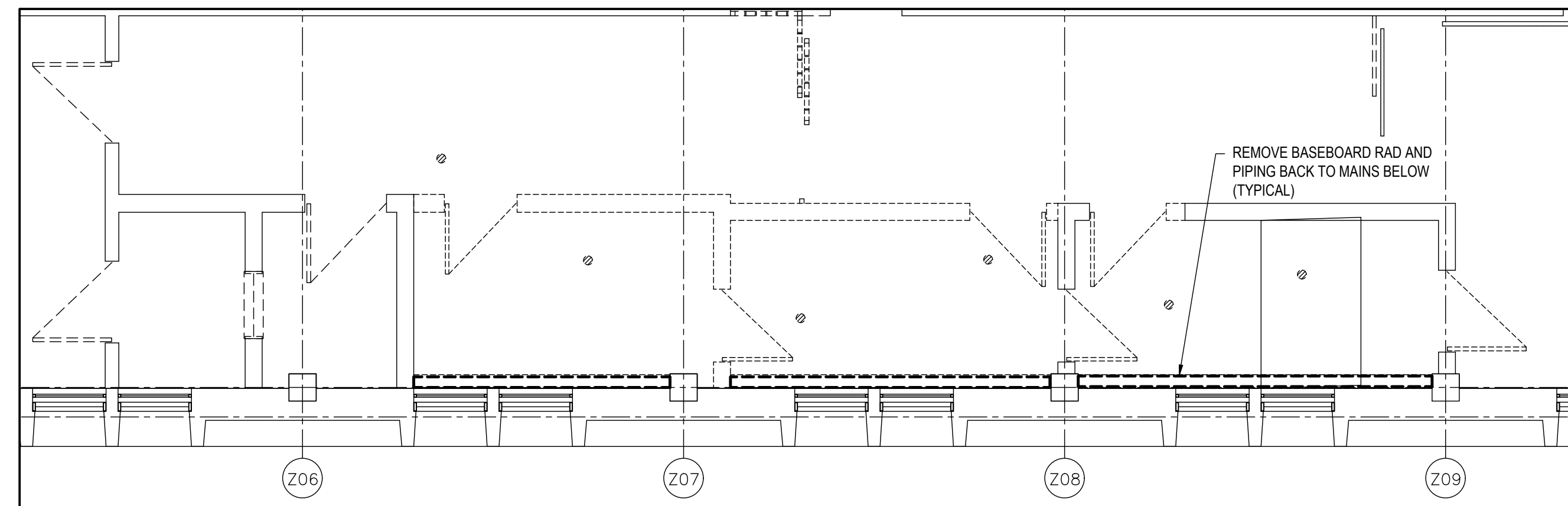
drawing no.
dessiné no. **S-102**



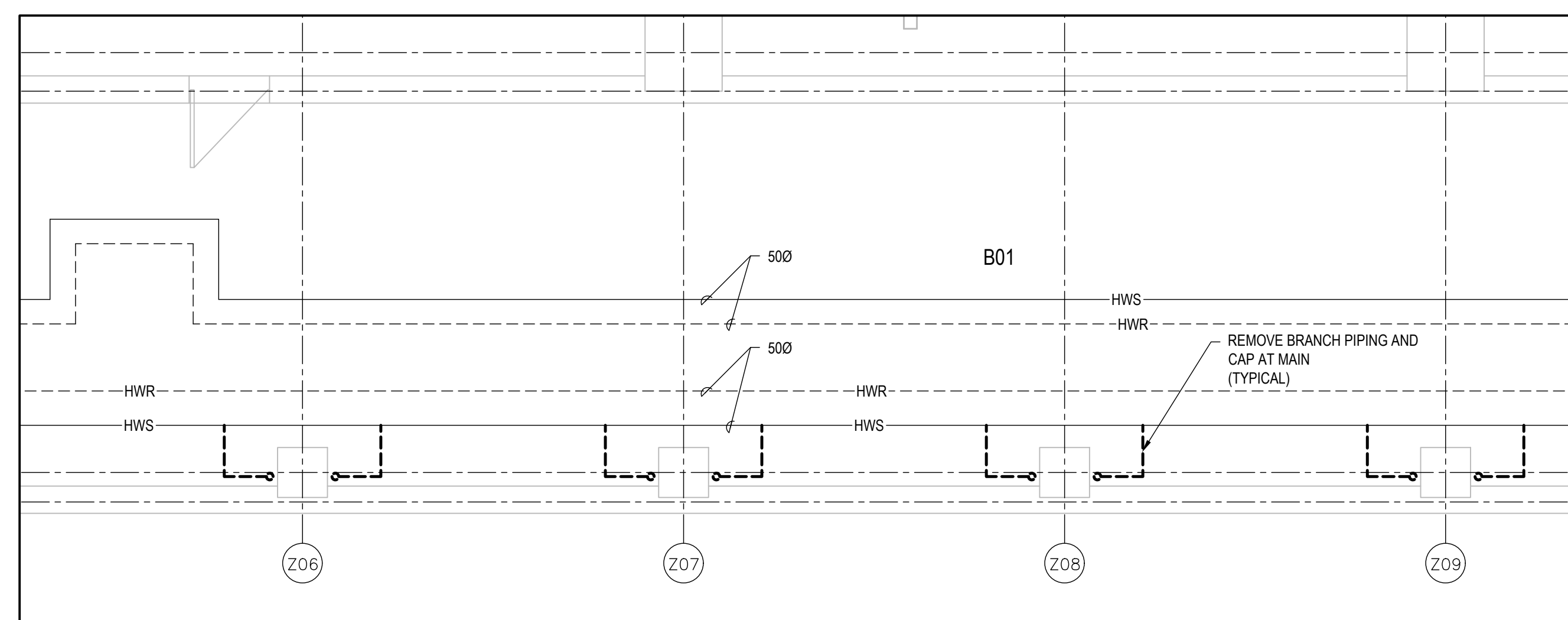
1 GROUND FLOOR SPRINKLER DEMOLITION
SCALE: 1:50



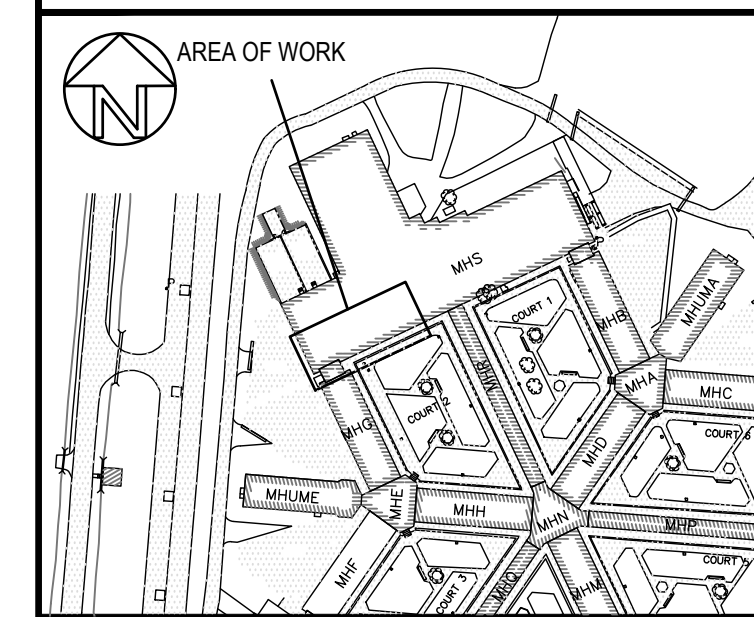
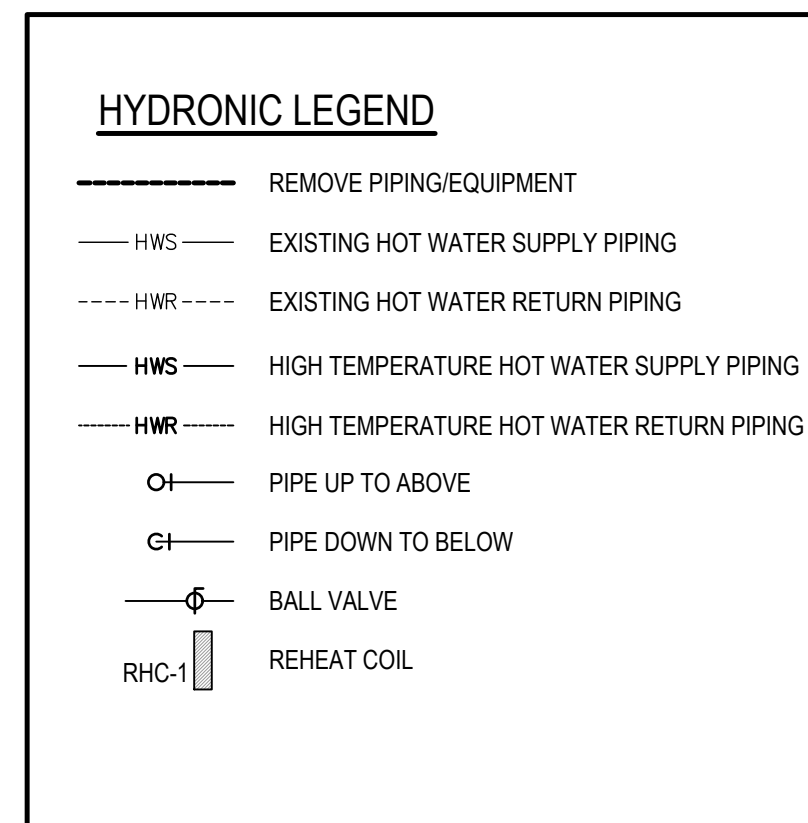
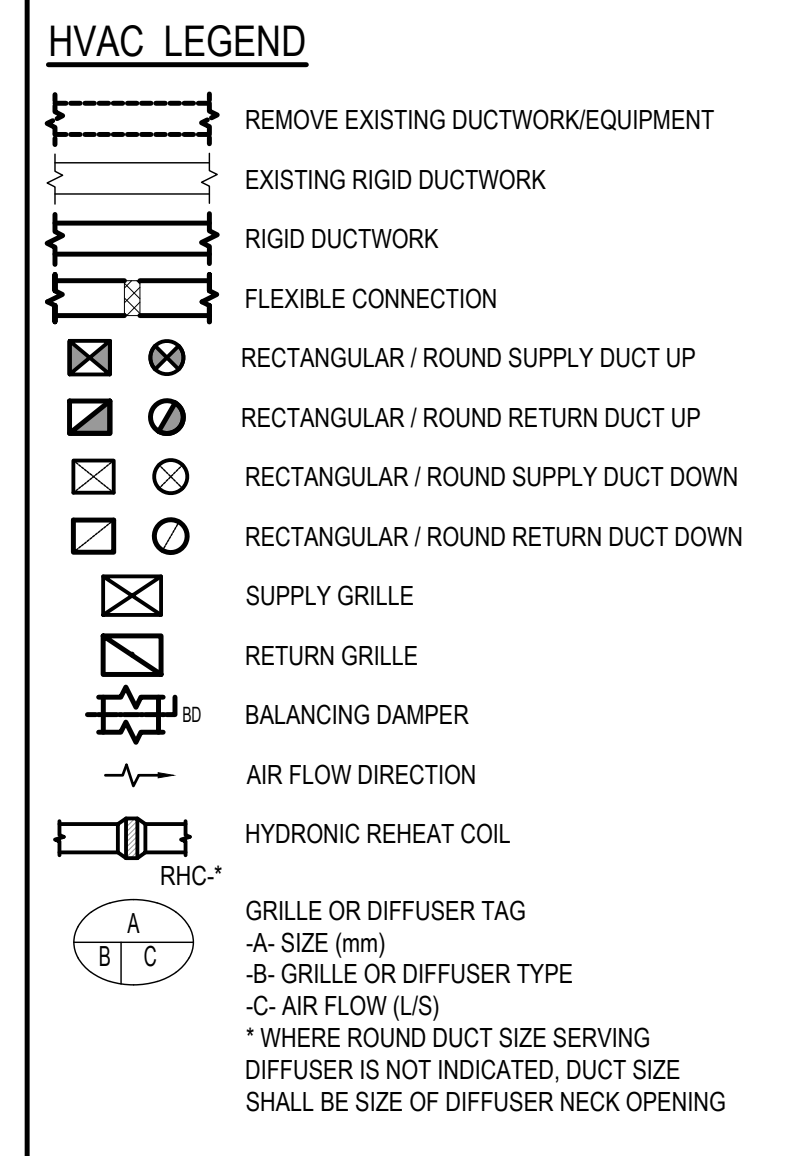
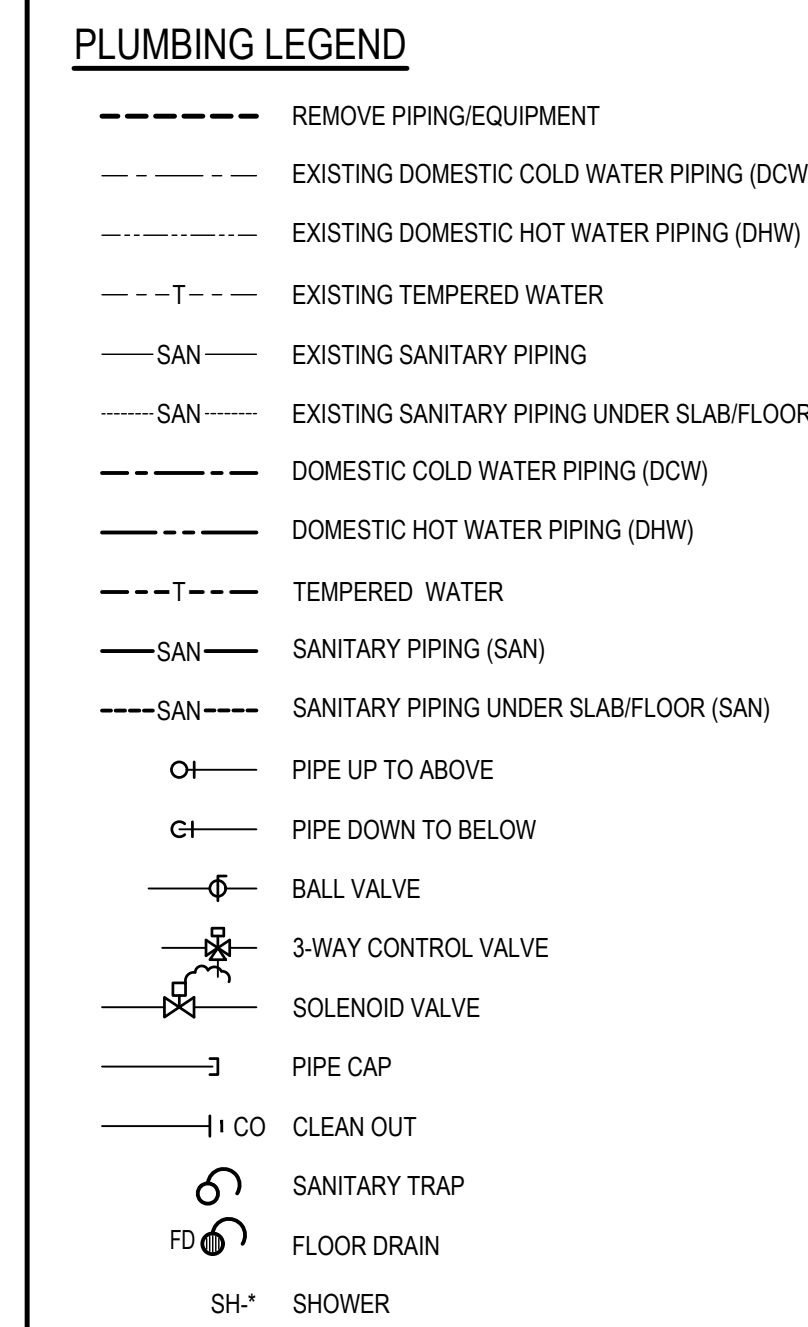
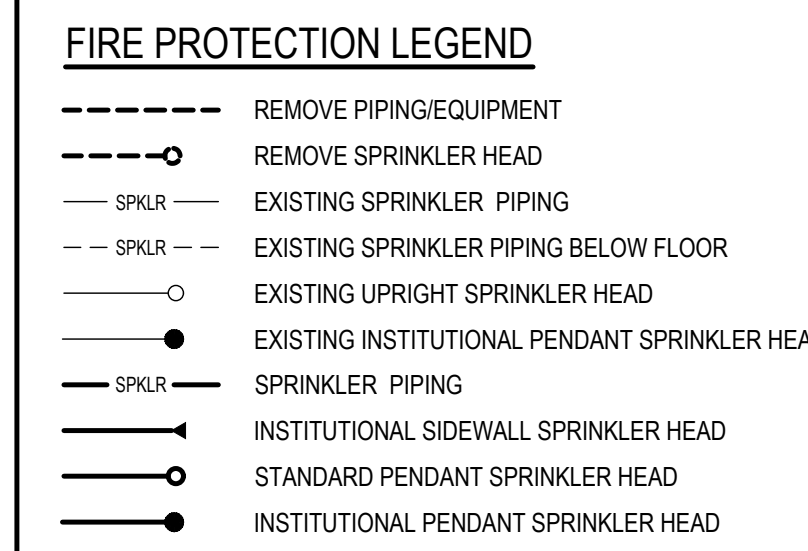
2 GROUND FLOOR HVAC DEMOLITION
SCALE: 1:50



3 GROUND FLOOR HYDRONIC DEMOLITION
SCALE: 1:50



4 BASEMENT HYDRONIC DEMOLITION
SCALE: 1:50



revision	description	date
1	ISSUED FOR TENDER	2021-06-22

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	drawing no. - where detailed / dessin no. - où détaillé

project title / titre du projet
MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON K0H 1G0
DRY CELL RELOCATION - STRUCTURED INTERVENTION UNIT

drawing title / titre du dessin
S UNIT SPRINKLER HVAC AND HYDRONIC DEMOLITION PLANS

drawn by / dessiné par **ET**

designed by / conçu par **AS**

approved by / approuvé par **AS**

bid / offre
project manager / administrateur de projets

project date / date du projet **2021-02-19**

project no. / no. du projet **R.106776.001**

drawing no. / dessiné no. **M-401**

GENERAL NOTES

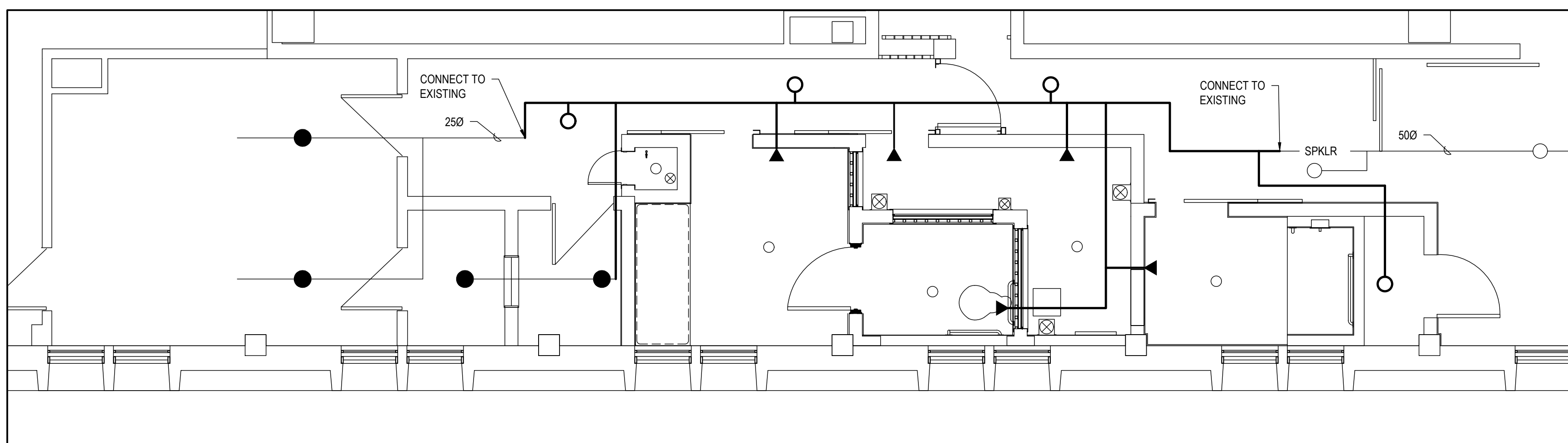
- EXISTING MECHANICAL SYSTEMS SHOWN ARE DIAGRAMMATIC AND ARE BASED ON ORIGINAL DRAWINGS. THE DRAWINGS MAY NOT REPRESENT "AS-BUILT" CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ON SITE PRIOR TO TENDER CLOSE. THE EXTENT AND CONFIGURATION OF EXISTING MECHANICAL SYSTEMS AND ALLOW FOR ADDITIONAL REMOVALS AS DETERMINED ON SITE TO MEET THE INTENT OF THE DEMOLITION INDICATED. NO EXTRAS WILL BE ALLOWED FOR FAILURE OF THE CONTRACTOR IN COMPLETING A THOROUGH REVIEW OF THE SITE PRIOR TO SUBMITTING CONTRACT AMOUNT.
- DUCTWORK SHOWN IN LOCATIONS ARE TO BE COORDINATED WITH ALL OTHER TRADES.
- PROVIDE COMPLETE, FULLY TESTED AND OPERATIONAL MECHANICAL SYSTEMS TO MEET THE REQUIREMENTS DESCRIBED HEREIN AND IN COMPLETE ACCORD WITH APPLICABLE CODES AND ORDINANCES.
- FOLLOW MANUFACTURERS RECOMMENDED INSTALLATION DETAILS AND PROCEDURES FOR EQUIPMENT, SUPPLEMENTED BY REQUIREMENTS OF CONTRACT DOCUMENTS.

CONTRACT DRAWINGS

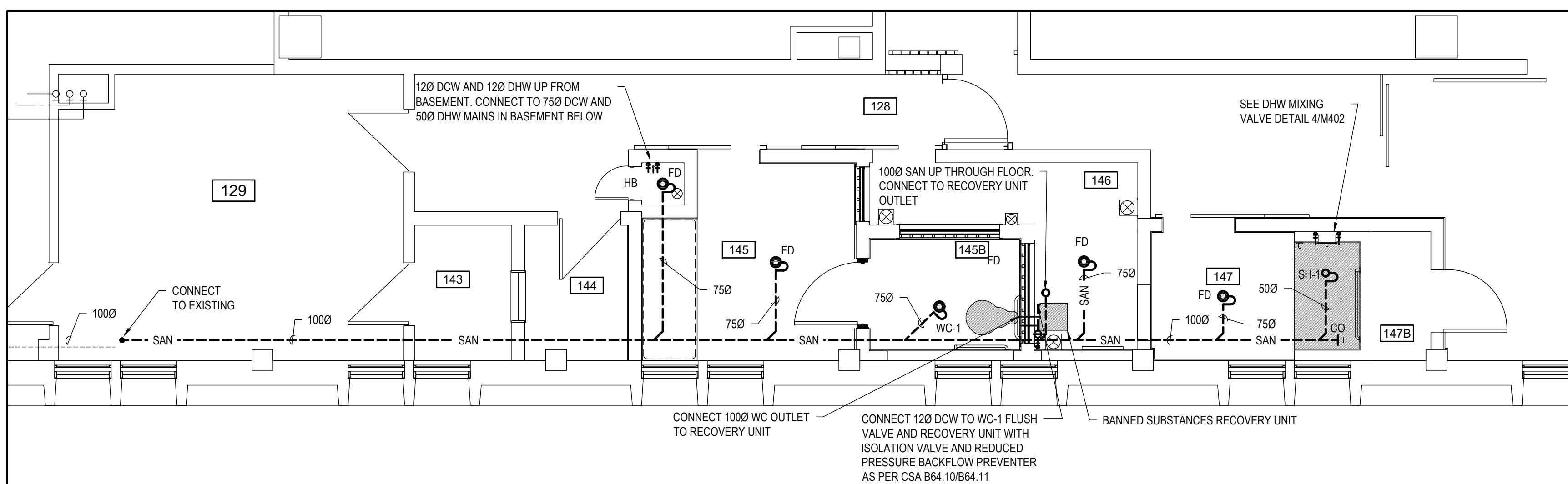
CONTRACT DRAWINGS FOR MECHANICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR MECHANICAL SYSTEMS AND EQUIPMENT. CONTRACTOR TO COORDINATE LAYOUT OF MECHANICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL BUILDING COMPONENTS, AS WELL AS, OTHER MECHANICAL SYSTEMS. PROVIDE ADDITIONAL PIPING, DUCTING, FITTINGS, SUPPORTS, ETC., REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

DEMOLITION NOTES

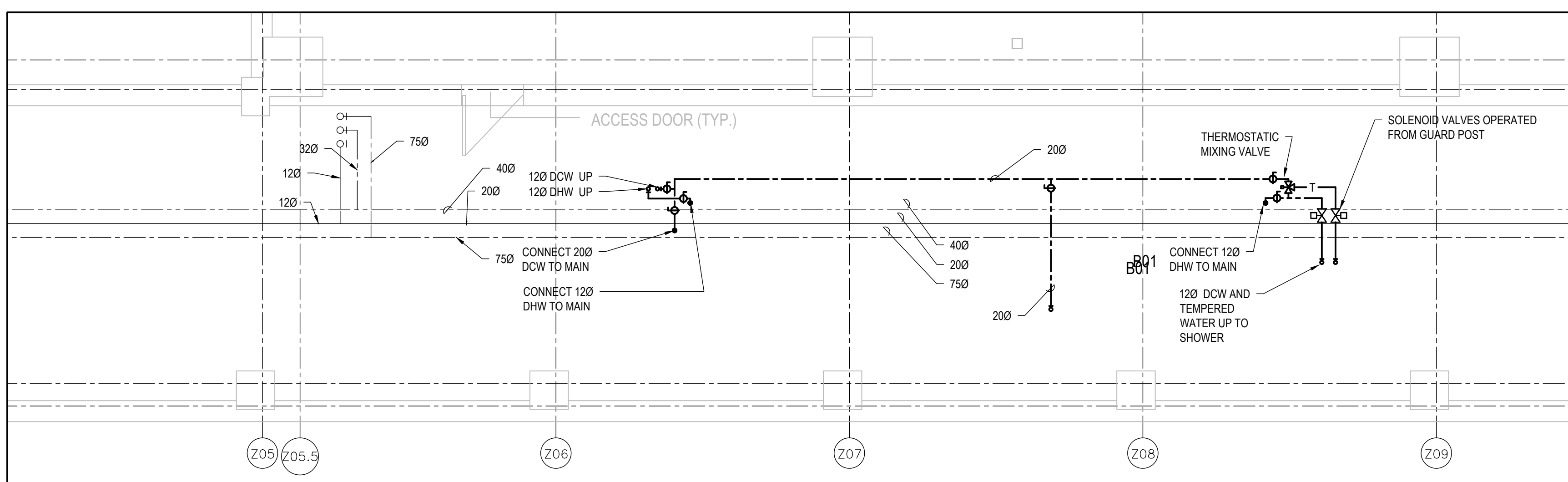
- REMOVE ALL DUCTWORK, EQUIPMENT, CONNECTIONS, DAMPERS AND OTHER ASSOCIATED ITEMS FOR HVAC INDICATED TO BE REMOVED, UNLESS OTHERWISE INDICATED. EXACT LOCATION OF DISCONNECTION, CAPS, QUANTITIES OF DUCT TO BE REMOVED, ETC., TO BE DETERMINED ON SITE.



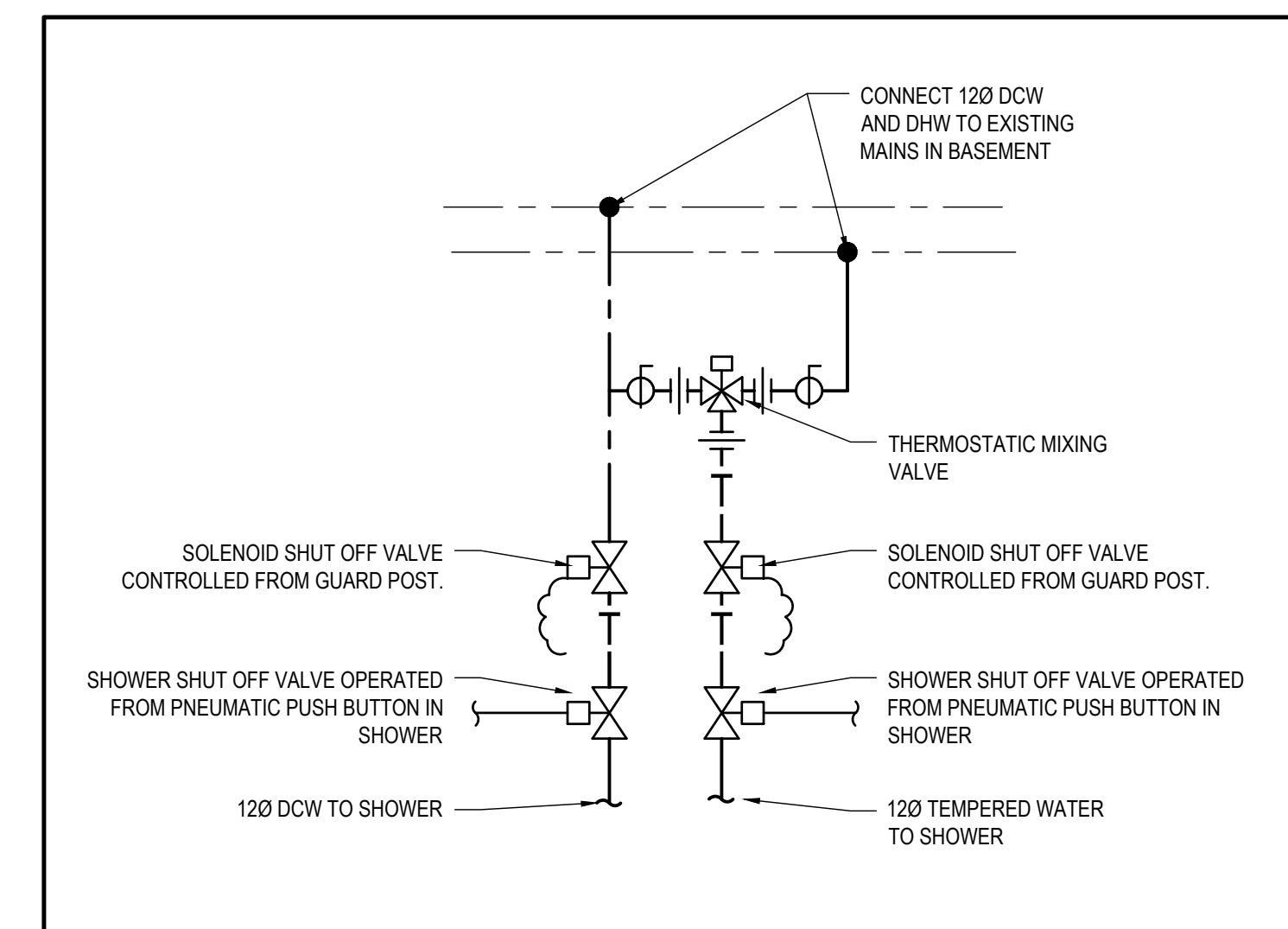
1 GROUND FLOOR SPRINKLER LAYOUT
SCALE: 1:50



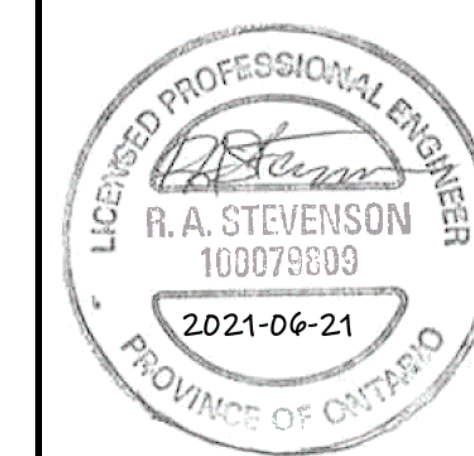
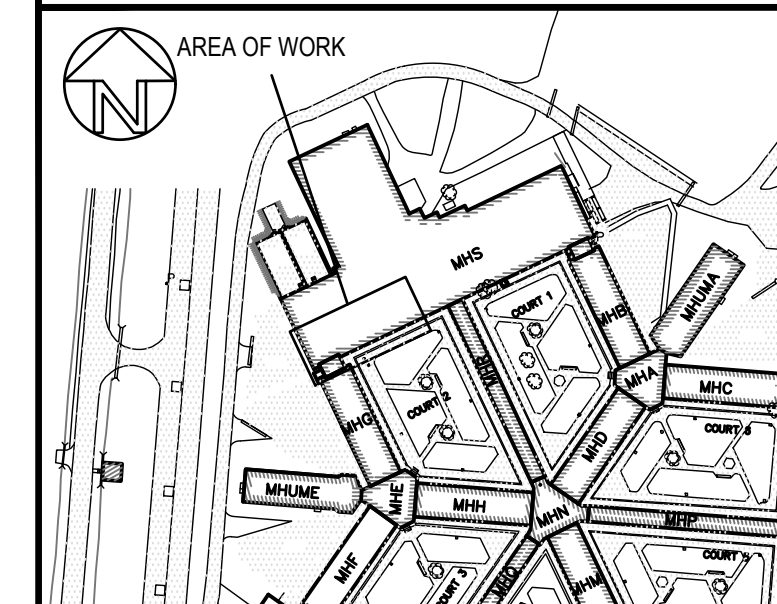
2 GROUND FLOOR PLUMBING LAYOUT
SCALE: 1:50



3 BASEMENT PLUMBING LAYOUT
SCALE: 1:50



4 DHW MIXING VALVE DETAIL
SCALE: NTS



1	ISSUED FOR TENDER	2021-06-22
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revision	description	date

Do not scale drawings. Verify all dimensions and conditions on site and immediately notify the Departmental Representative of all discrepancies.

A	Detail No.
B	drawing no. - where detail required
C	drawing no. - where detailed

project title
titre du projet
MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON K0H 1G0
**DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT**

drawing title
titre du dessin
**S UNITS PLUMBING AND
SPRINKLER LAYOUTS**

drawn by
dessiné par
ET

designed by
conçu par
AS

approved by
approuvé par
AS

bid
offre
project manager
administrateur de projets

project date
date du projet
2021-02-19

project no.
no. du projet
R.106776.001

drawing no.
dessiné no.
M-402

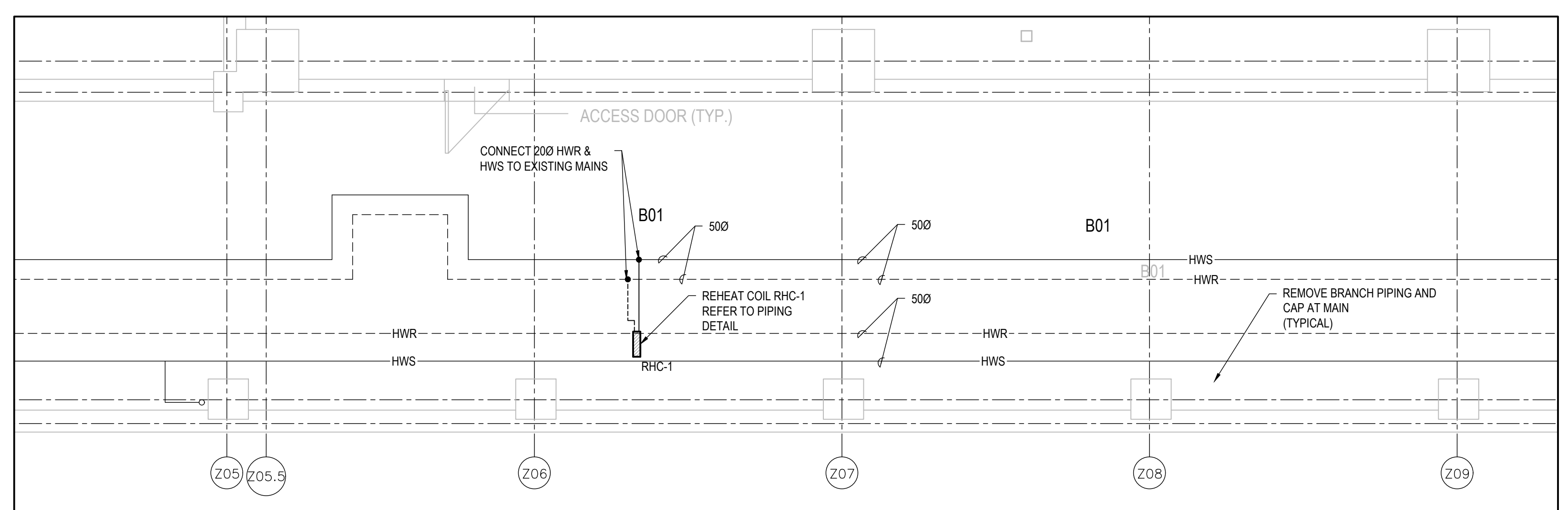
- GENERAL NOTES**
- EXISTING MECHANICAL SYSTEMS SHOWN ARE DIAGRAMMATIC AND ARE BASED ON ORIGINAL DRAWINGS. THE DRAWINGS MAY NOT REPRESENT "AS-BUILT" CONDITIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ON SITE PRIOR TO TENDER CLOSE. THE EXTENT AND CONFIGURATION OF EXISTING MECHANICAL SYSTEMS AND ALLOW FOR ADDITIONAL REMOVALS AS DETERMINED ON SITE TO MEET THE INTENT OF THE DEMOLITION INDICATED. NO EXTRAS WILL BE ALLOWED FOR FAILURE OF THE CONTRACTOR IN COMPLETING A THOROUGH REVIEW OF THE SITE PRIOR TO SUBMITTING CONTRACT AMOUNT.
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 - PROVIDE COMPLETE, FULLY TESTED AND OPERATIONAL MECHANICAL SYSTEMS TO MEET THE REQUIREMENTS DESCRIBED HEREIN AND IN COMPLETE ACCORD WITH APPLICABLE CODES AND ORDINANCES.
 - FOLLOW MANUFACTURERS RECOMMENDED INSTALLATION DETAILS AND PROCEDURES FOR EQUIPMENT, SUPPLEMENTED BY REQUIREMENTS OF CONTRACT DOCUMENTS.

GRILLE & DIFFUSER SCHEDULE			
DESIGNATION	A	B	C
FUNCTION	SUPPLY / EXHAUST	EXHAUST	SUPPLY
DESCRIPTION	LOUVERED SECURITY GRILLE	HEAVY DUTY WALL GRILLE, SINGLE DEFLECTION BLADES ON 20MM CENTRES	HEAVY DUTY WALL GRILLE, DOUBLE DEFLECTION BLADES ON 20MM CENTRES
FASTENING/FRAME	WELDED TO STEEL CLADDED WALL	DUCT MOUNTED	DUCT MOUNTED
FINISH	POLISHED STAINLESS STEEL	STEEL, WHITE FINISH	STEEL, WHITE FINISH
REMARKS	DESIGNED FOR MAXIMUM SECURITY FACILITIES		

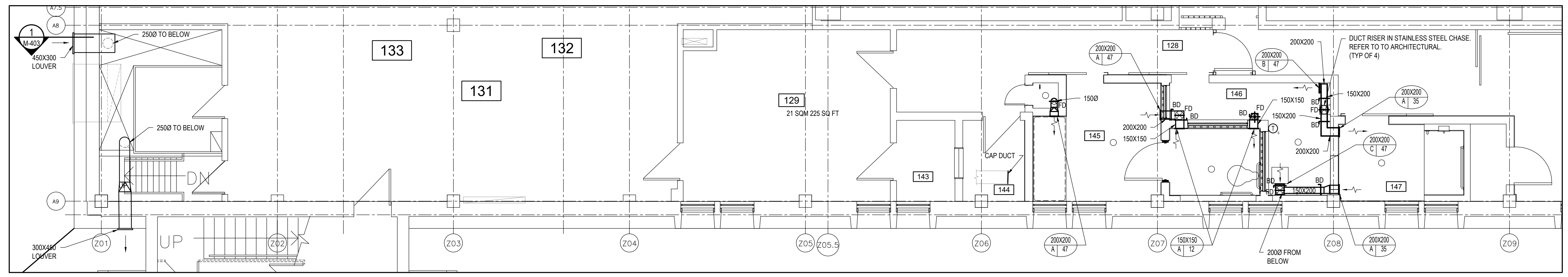
ENERGY RECOVERY VENTILATION UNIT SCHEDULE													
TAG	AREA SERVED	SUPPLY FAN			EXHAUST FAN			EFFECTIVENESS	O/A TEMPERATURE		ELECTRICAL		NOTES
		FLOW L/S (CFM)	FAN SPEED	E.S.P. Pa (IN)	FLOW L/S (CFM)	FAN SPEED	E.S.P. Pa (IN)		ENT	LEAVE	V/PH/Hz	MCA	
ERV-1	DRY CELL / DRUG LOO	142 (300)	MED	57 (0.23)	142 (300)	MED	57 (0.23)	65%	-20°C	6°C	208/160	2.05	

NOTES:
1. SINGLE POINT POWER CONNECTION COMPLETE WITH NON-FUSED DISCONNECT

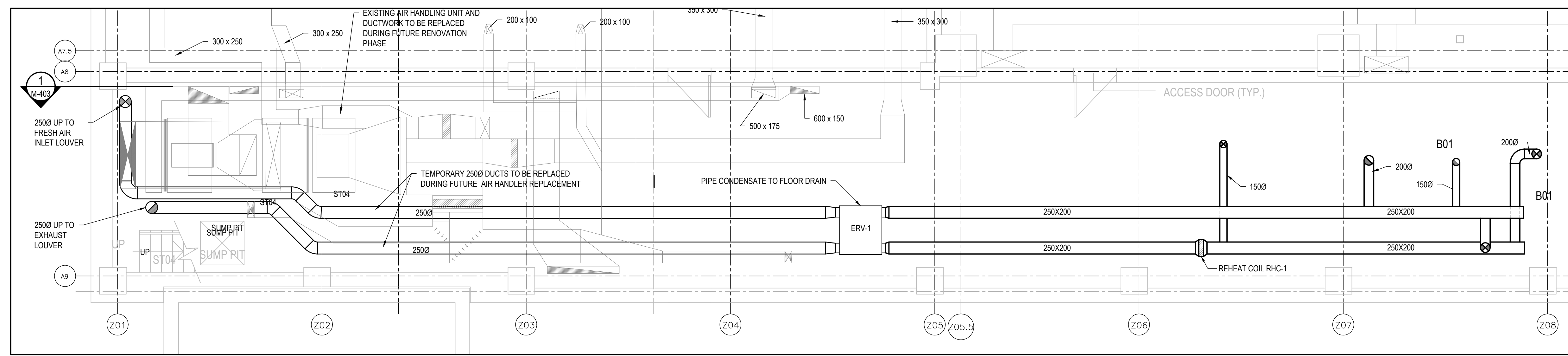
REHEAT COIL SCHEDULE									
TAG	AIRFLOW (L/S)	CAPACITY (KW)	EAT (°C)	LAT (°C)	PRESSURE DROP (Pa)	WATER FLOW (L/S)	EWT (°C)	LWT (°C)	PRESSURE DROP (KPa)
RHC-1	141	12.9	3.0	43.3	25	0.22	65.6	54.4	15.0



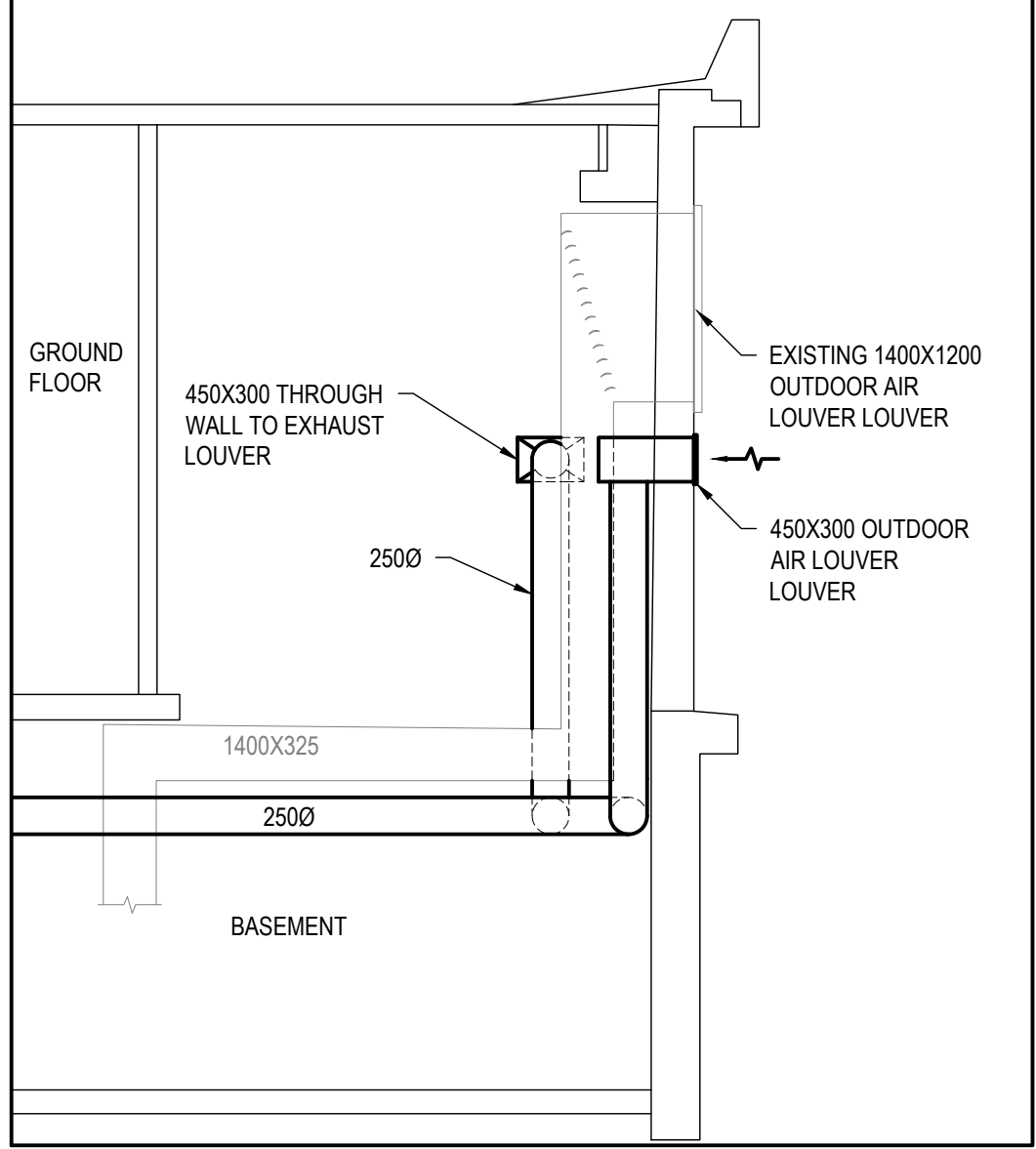
1 M-403 SCALE: 1:50



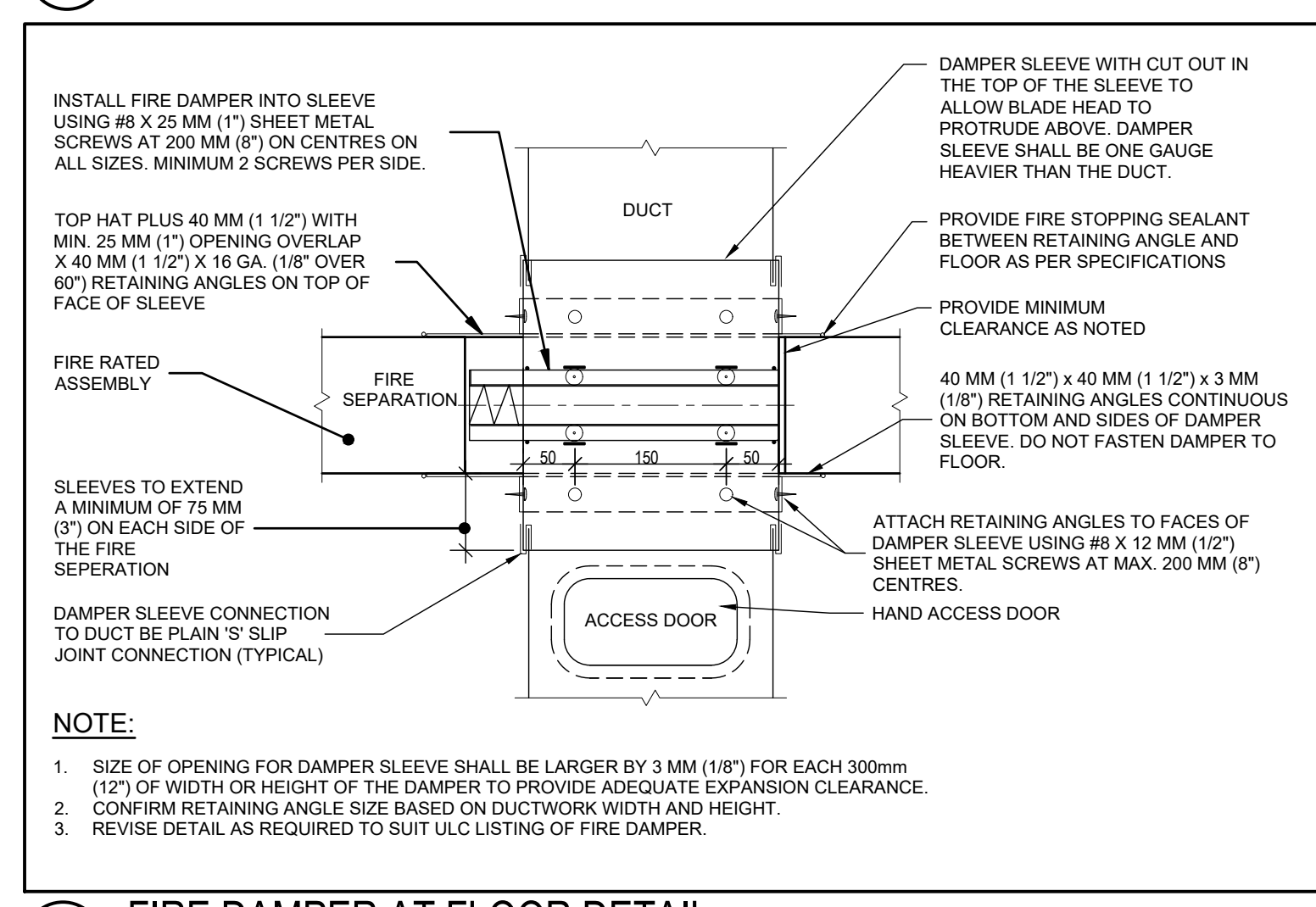
2 M-403 SCALE: 1:50



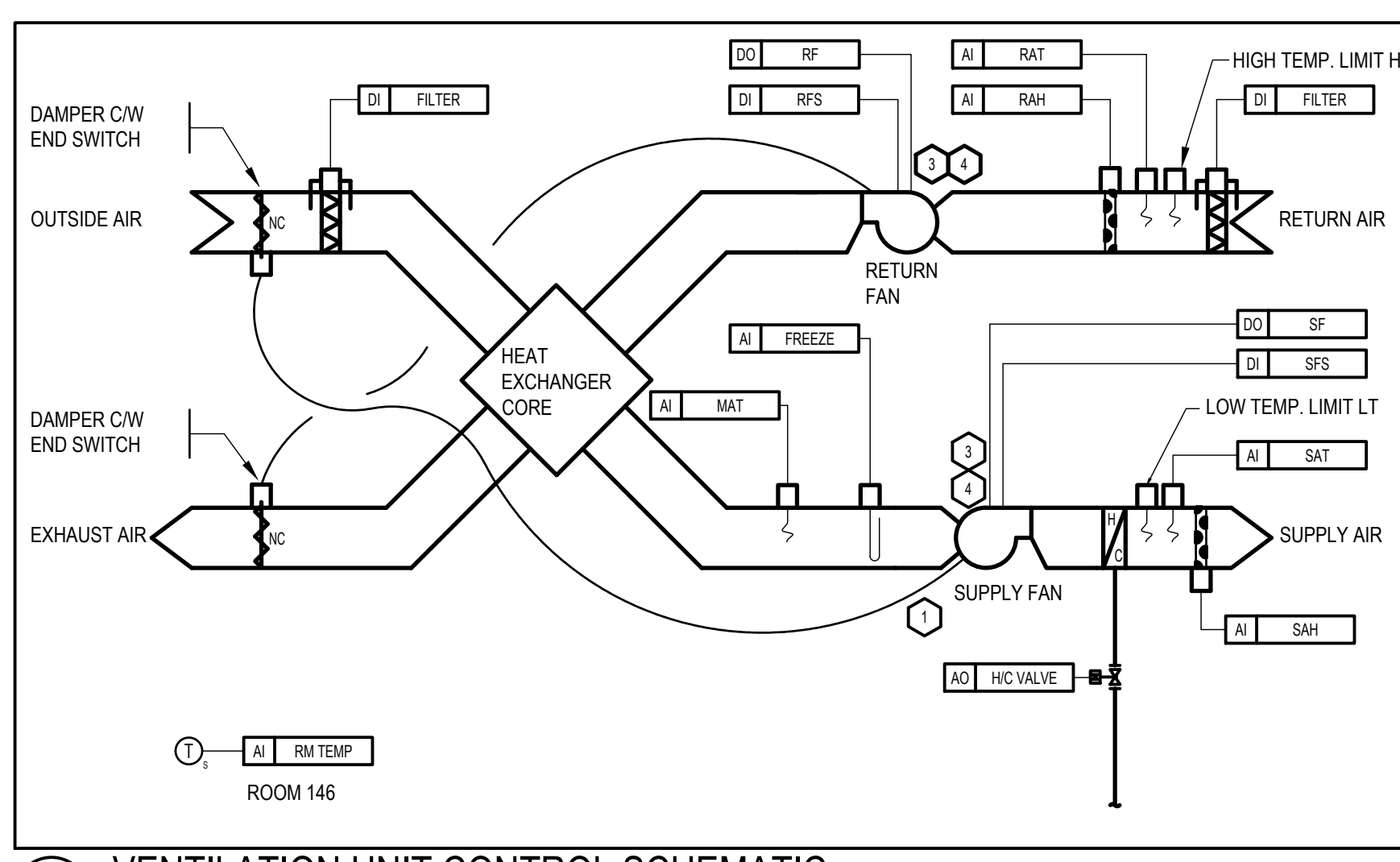
3 M-403 SCALE: 1:50



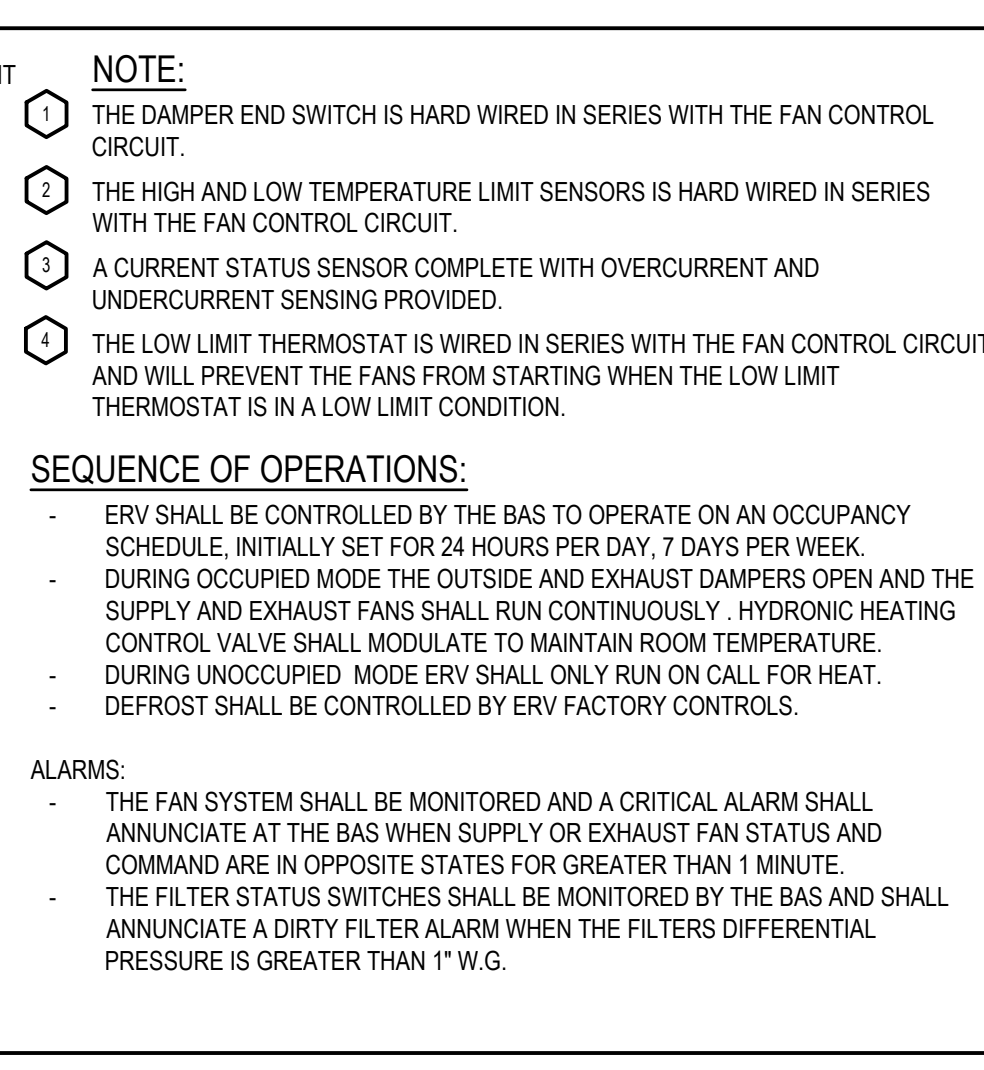
5 M-403 SCALE: 1:50



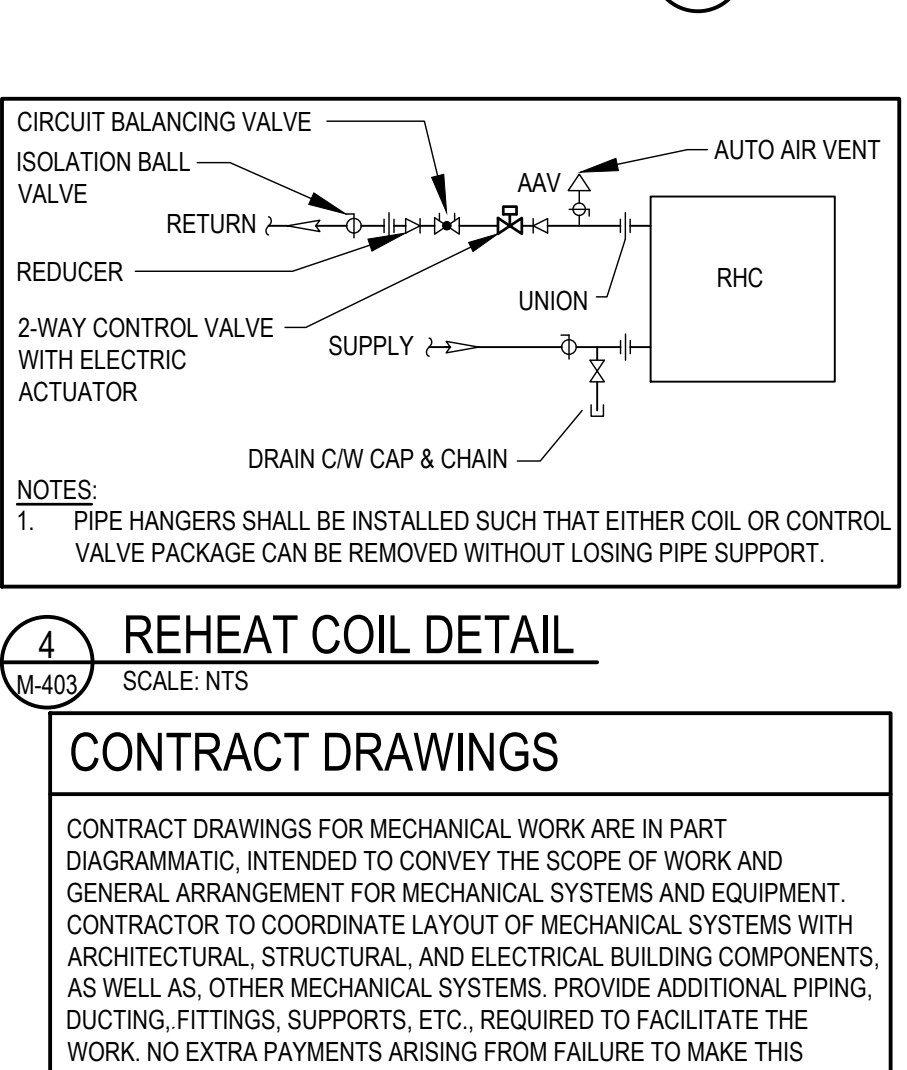
6 M-403 SCALE: NTS



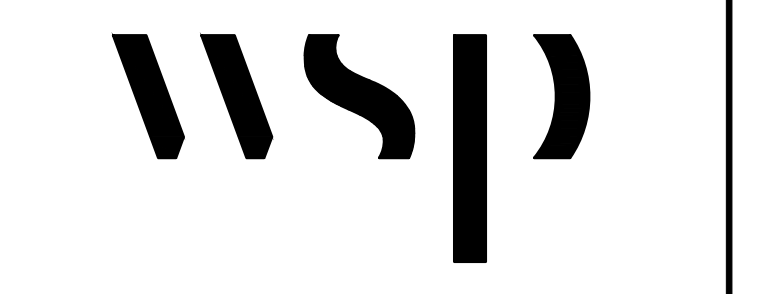
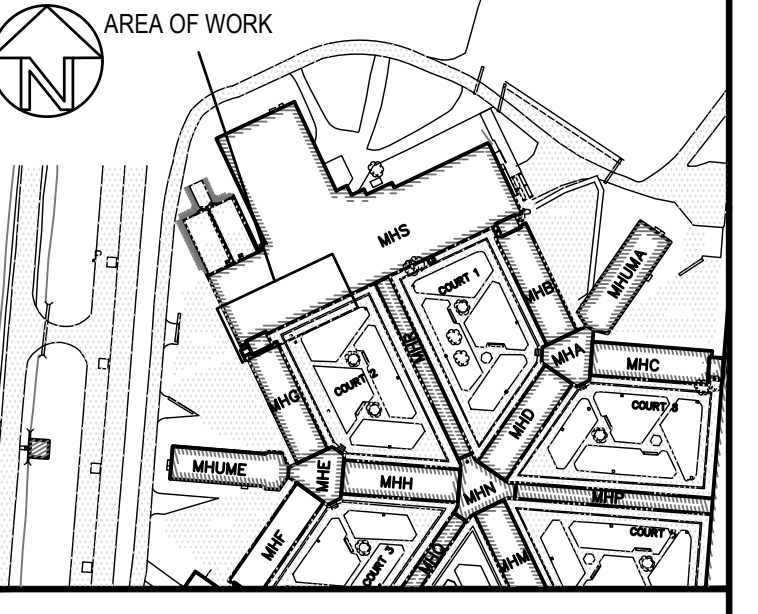
7 M-403 SCALE: NTS



4 M-403 SCALE: NTS



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revision	description	date
1	ISSUED FOR TENDER	2021-06-22

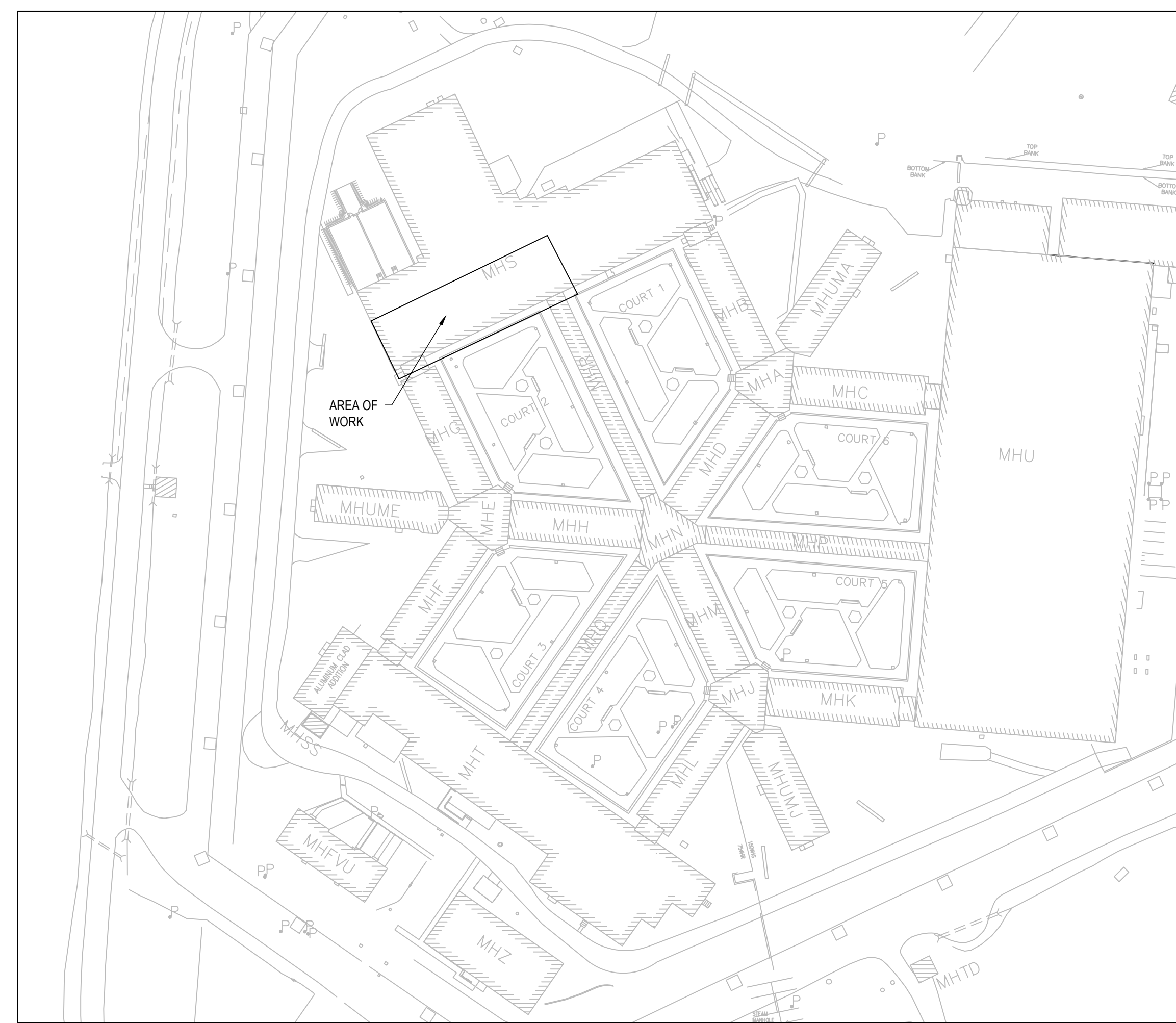
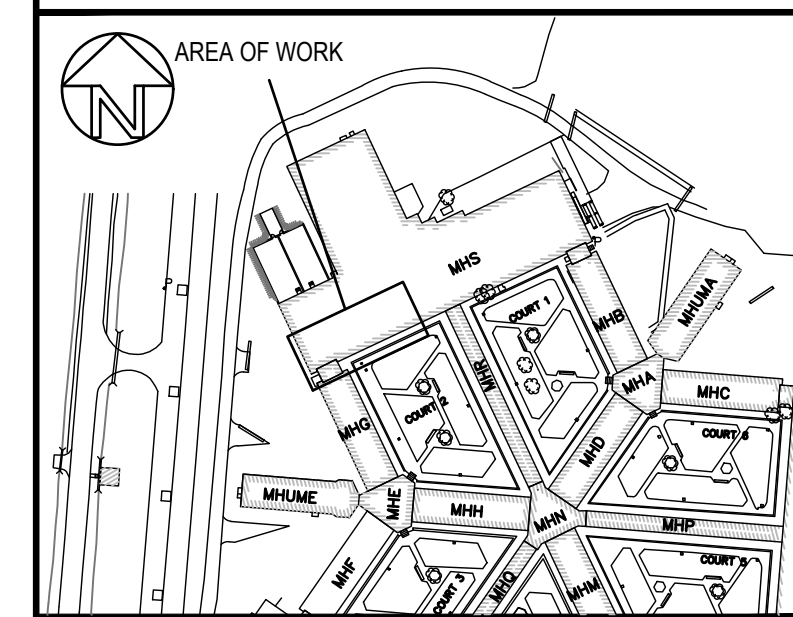
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A	B	C
Detail No.	No. du détail	
drawing no. - where detail required	dessin no. - où détail exigé	
drawing no. - where detailed	dessin no. - où détaillé	

project title
titre du projet
MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON K0H 1G0
**DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT**

drawing title
titre du dessin
**S UNIT HYDRONIC AND
HVAC LAYOUTS**

drawn by dessiné par	ET	project manager administrateur de projets
designed by conçu par	AS	
approved by approuvé par	AS	
bid offre		
project date date du projet	2021-02-19	
project no. no. du projet	R.106776.001	
drawing no. dessiné no.	M-403	



1 KEY PLAN
 SCALE: 1:1000

LEGENDS	
	REMOVE 300X1200MM FIXTURE, WIRING AND CONDUIT BACK TO SOURCE UNLESS OTHERWISE NOTED
	REMOVE TOGGLE SWITCH, BOX, WIRING AND CONDUIT
	REMOVE DUPLEX RECEPTACLE, BOX WIRING AND CONDUIT BACK TO SOURCE
	REMOVE SMOKE DETECTOR, BOX, WIRING AND CONDUIT BACK TO SOURCE
	RELOCATE FIRE ALARM BELL
	CAMERA TO BE REMOVED AND HANDED OVER TO OWNER
	LIGHT TO REMAIN
	CAMERA CONDUIT, WIRING ETC. BY DIVISION 26
	TOGGLE SWITCH
	300X1200MM LED SECURITY TYPE LIGHT FIXTURE
	300X1200MM LED SECURITY TYPE LIGHT FIXTURE
	WALL MOUNT LIGHT FIXTURE
	DUPLEX RECEPTACLE 15A-120V
	DIRECT CONNECTION TO DRUG/LOCO EQUIPMENT
	RELOCATED SMOKE DETECTOR
	RELOCATED FIRE ALARM BELL
	PANEL
	ELECTRIC STRIKE FOR DOOR
	OCCUPANCY SENSOR
	MOMENTARY ELECTRIC STRIKE PUSHBUTTON STATION
	COUNTER HEIGHT

NOTE

1. ADD SMOKE DETECTOR DEVICES TO SYSTEM PROGRAM AND VERIFY ANNUNCIATION, OPERATION, ETC.

CONTRACT DRAWINGS

CONTRACT DRAWINGS FOR ELECTRICAL WORK ARE IN PART DIAGRAMMATIC, INTENDED TO CONVEY THE SCOPE OF WORK AND GENERAL ARRANGEMENT FOR EQUIPMENT, CONDUIT AND OUTLETS. CONTRACTOR TO COORDINATE LAYOUT OF ELECTRICAL SYSTEMS WITH ARCHITECTURAL, STRUCTURAL, AND MECHANICAL BUILDING COMPONENTS, AS WELL AS OTHER ELECTRICAL SYSTEMS. PROVIDE ADDITIONAL JUNCTION BOXES, FITTINGS, SUPPORTS, ETC. REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING FROM FAILURE TO MAKE THIS COORDINATION WILL BE CONSIDERED.

ARCHITECTURE | 49



revision	description	date
1	ISSUED FOR TENDER	2021-06-22

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	A Detail No. / No. du détail
	B drawing no. - where detail required / dessin no. - où détail exigé
	C drawing no. - where detailed / dessin no. - où détaillé

project title / titre du projet
MILLHAVEN INSTITUTION
 CSC
 5775 BATH RD.
 BATH, ON K0H 1G0
DRY CELL RELOCATION - STRUCTURED INTERVENTION UNIT

drawing title / titre du dessin
KEY PLAN AND LEGEND

drawn by / dessiné par **OK**

designed by / conçu par **GL/OK**

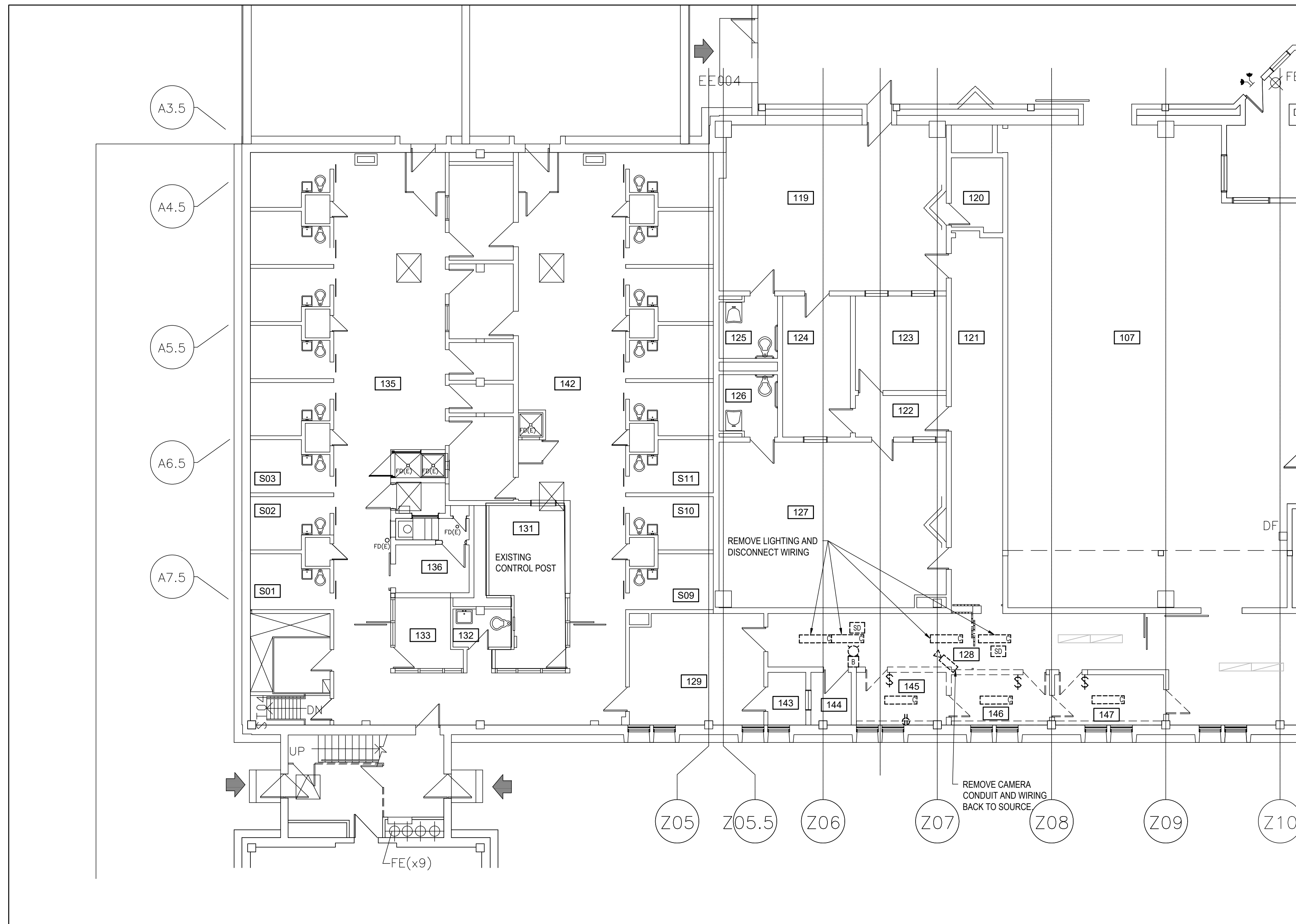
approved by / approuvé par **NM**

bid / offre project manager / administrateur de projets

project date / date du projet **2021-02-19**

project no. / no. du projet **R.106776.001**

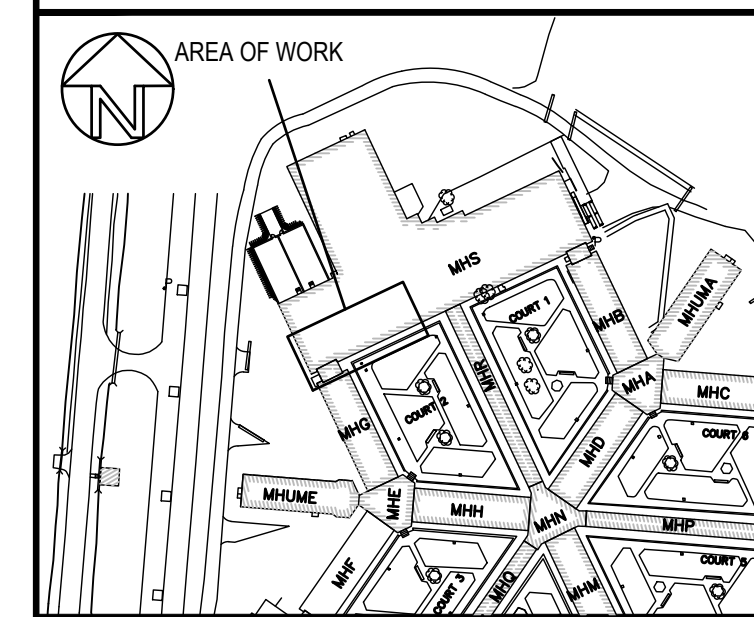
drawing no. / dessiné no. **E-500**



1 ELECTRICAL DEMO
SCALE: 1:100

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project title
titre du projet
MILLHAVEN INSTITUTION
CSC
5775 BATH RD.
BATH, ON K0H 1G0
**DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT**

drawing title
titre du dessin
**DRY CELL
DEMOLITION**

drawn by
dessiné par **OK**

designed by
conc par **GL/OK**

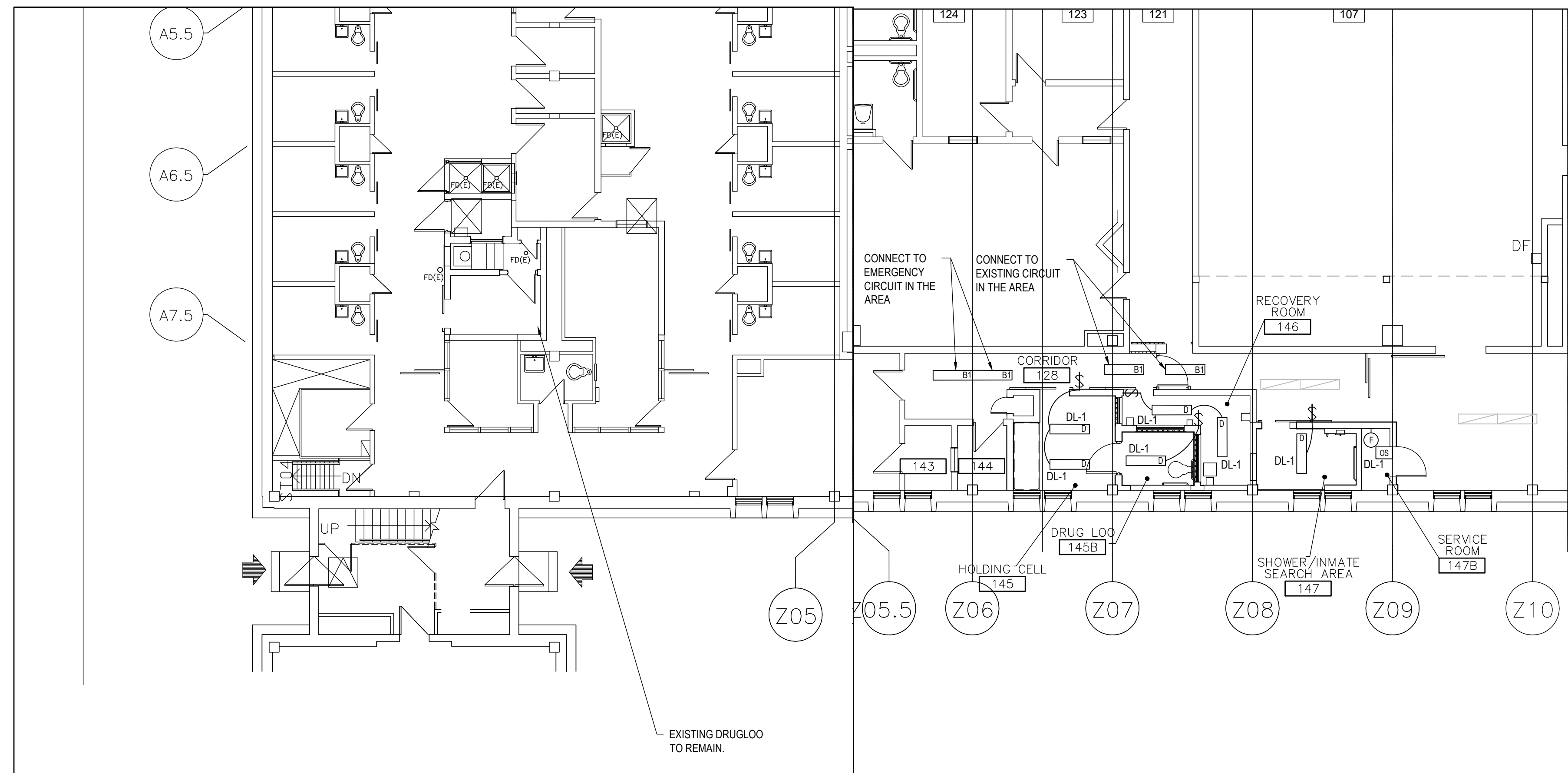
approved by
approuvé par **NM**

bid
offre project manager
administrateur de projets

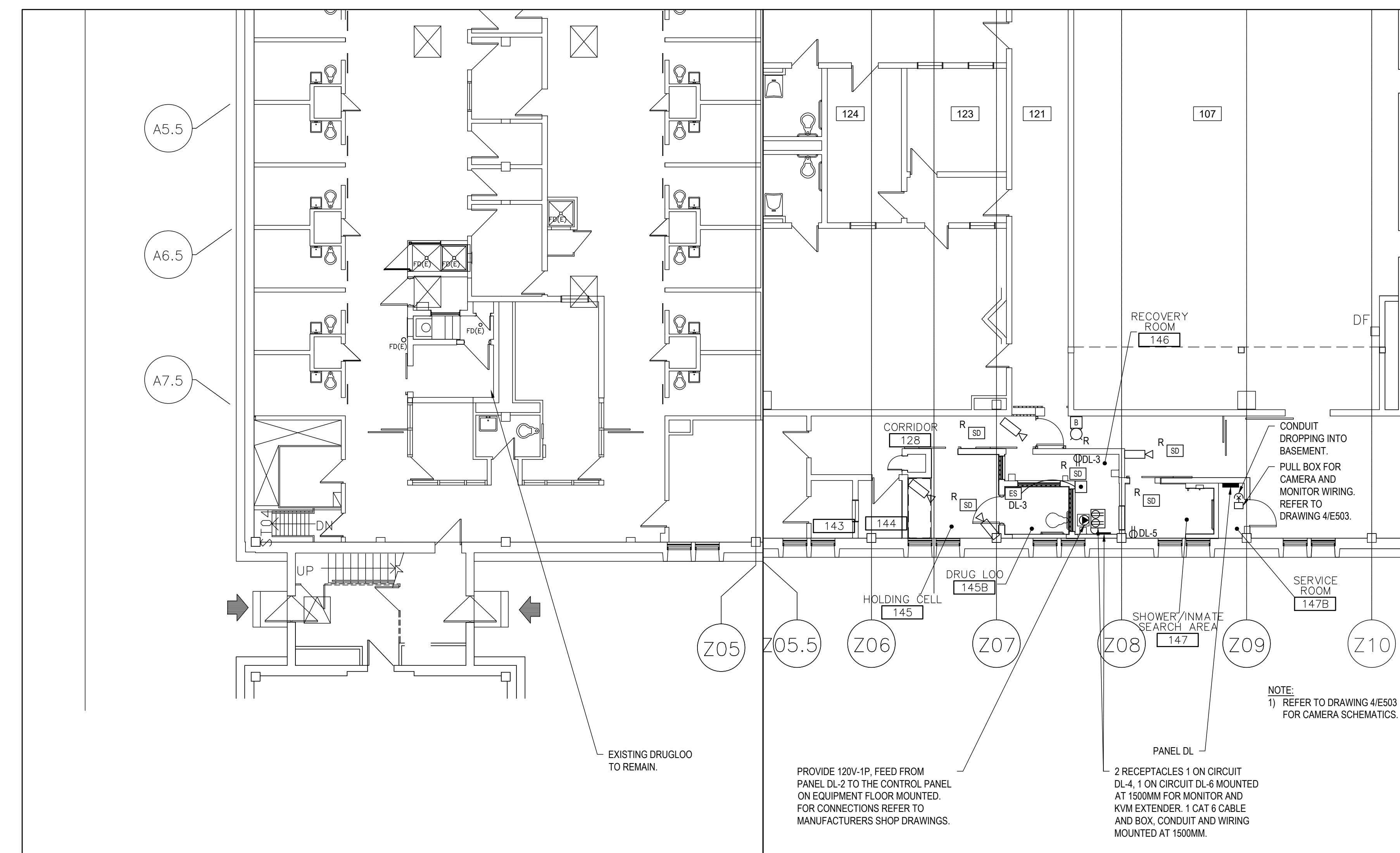
project date
date du projet **2021-02-19**

project no.
no. du projet **R.106776.001**

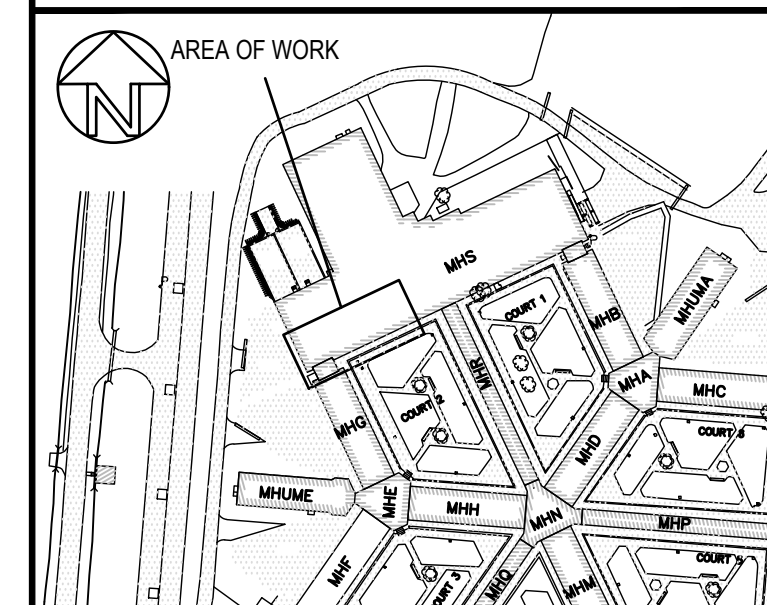
drawing no.
dessiné no. **E-501**



1 LIGHTING LAYOUT
SCALE: 1:100



2 POWER/SYSTEM LAYOUT
SCALE: 1:100



revision	description	date
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	drawing no. - where detailed dessin no. - où détaillé

project title
titre du projet
**MILLHAVEN INSTITUTION
CSC**
5775 BATH RD.
BATH, ON K0H 1G0
**DRY CELL RELOCATION -
STRUCTURED INTERVENTION UNIT**

drawing title
titre du dessin
**DRY CELL LIGHTING AND
POWER/SYSTEM LAYOUT**

drawn by
dessiné par OK

designed by
conçu par GL/OK

approved by
approuvé par NM

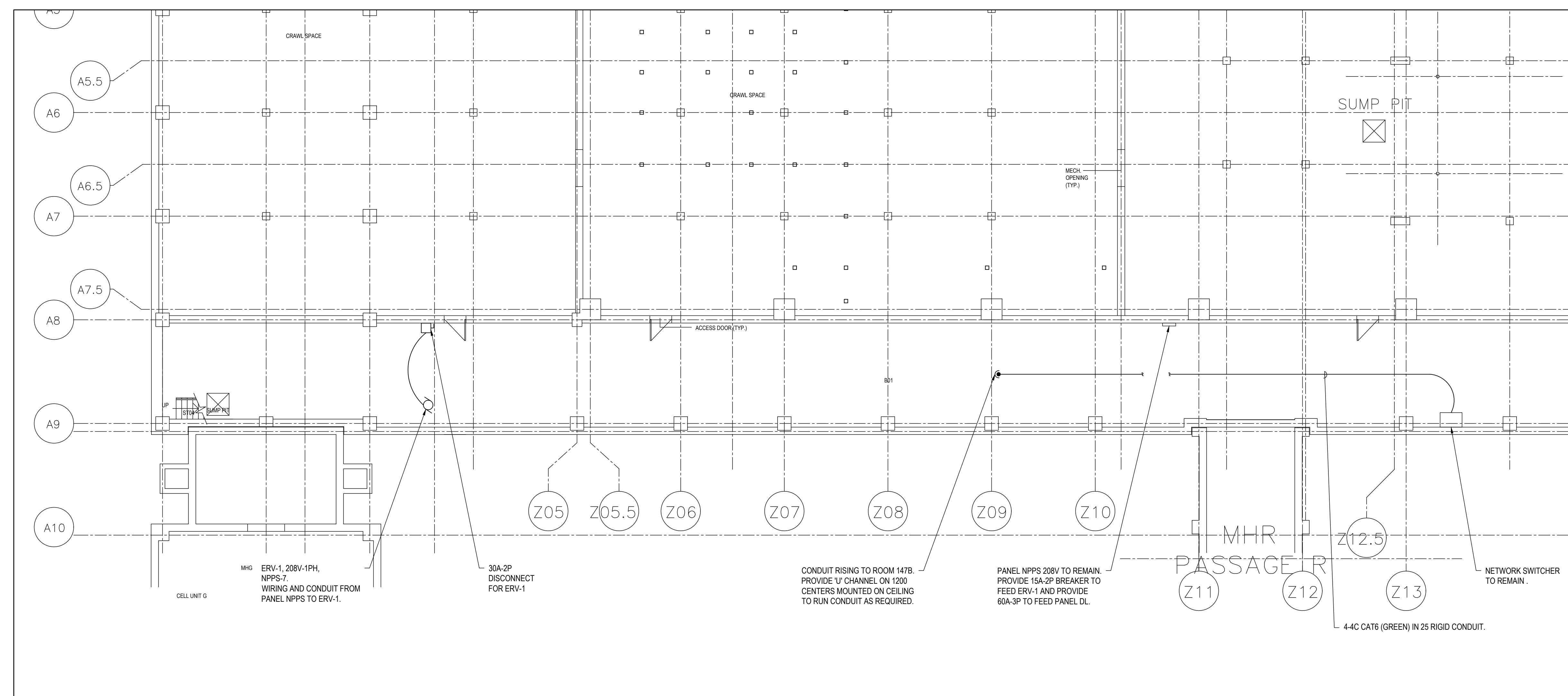
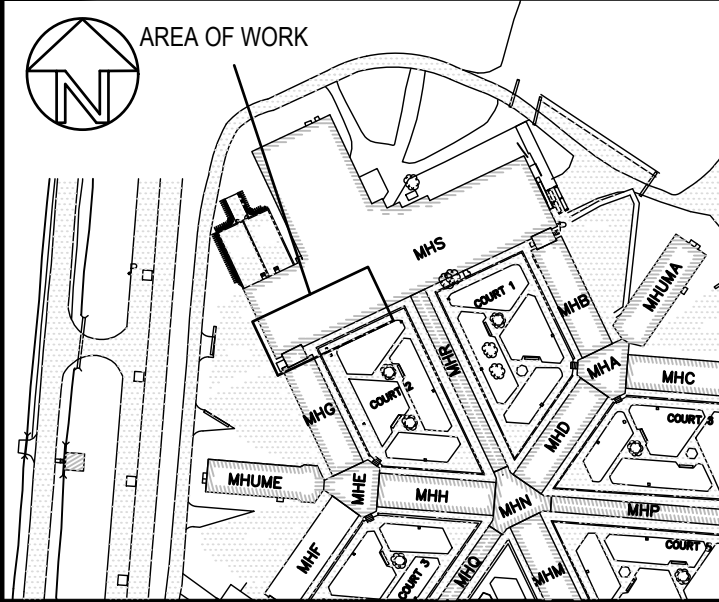
bid
offre project manager
administrateur de projets

project date
date du projet 2021-02-19

project no.
no. du projet R.106776.001

drawing no.
dessiné no. E-502

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CONTRACTOR TO COORDINATE LAYOUT OF ELECTRICAL SYSTEMS
WITH ARCHITECTURAL, STRUCTURAL AND MECHANICAL BUILDING
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ADDITIONAL JUNCTION BOXES, FITTINGS, SUPPORTS, ETC.
REQUIRED TO FACILITATE THE WORK. NO EXTRA PAYMENTS ARISING
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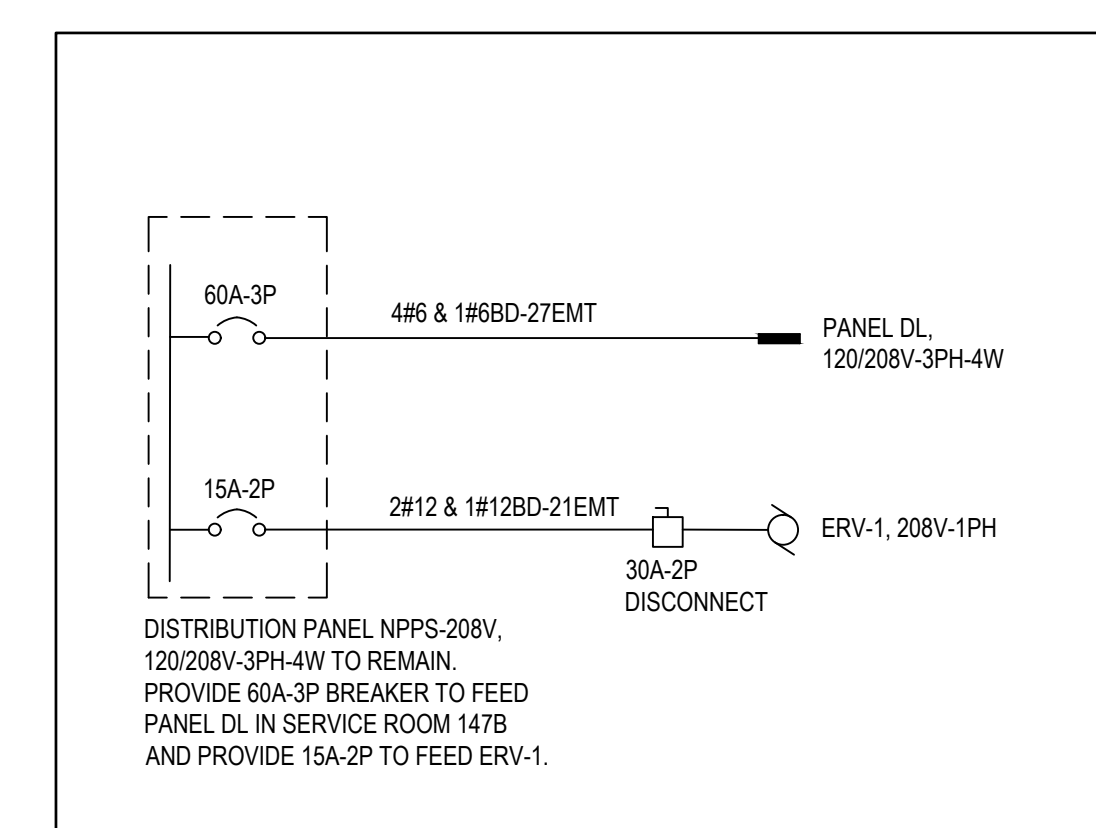


1 BASEMENT ELECTRICAL LAYOUT
 SCALE: 1:100

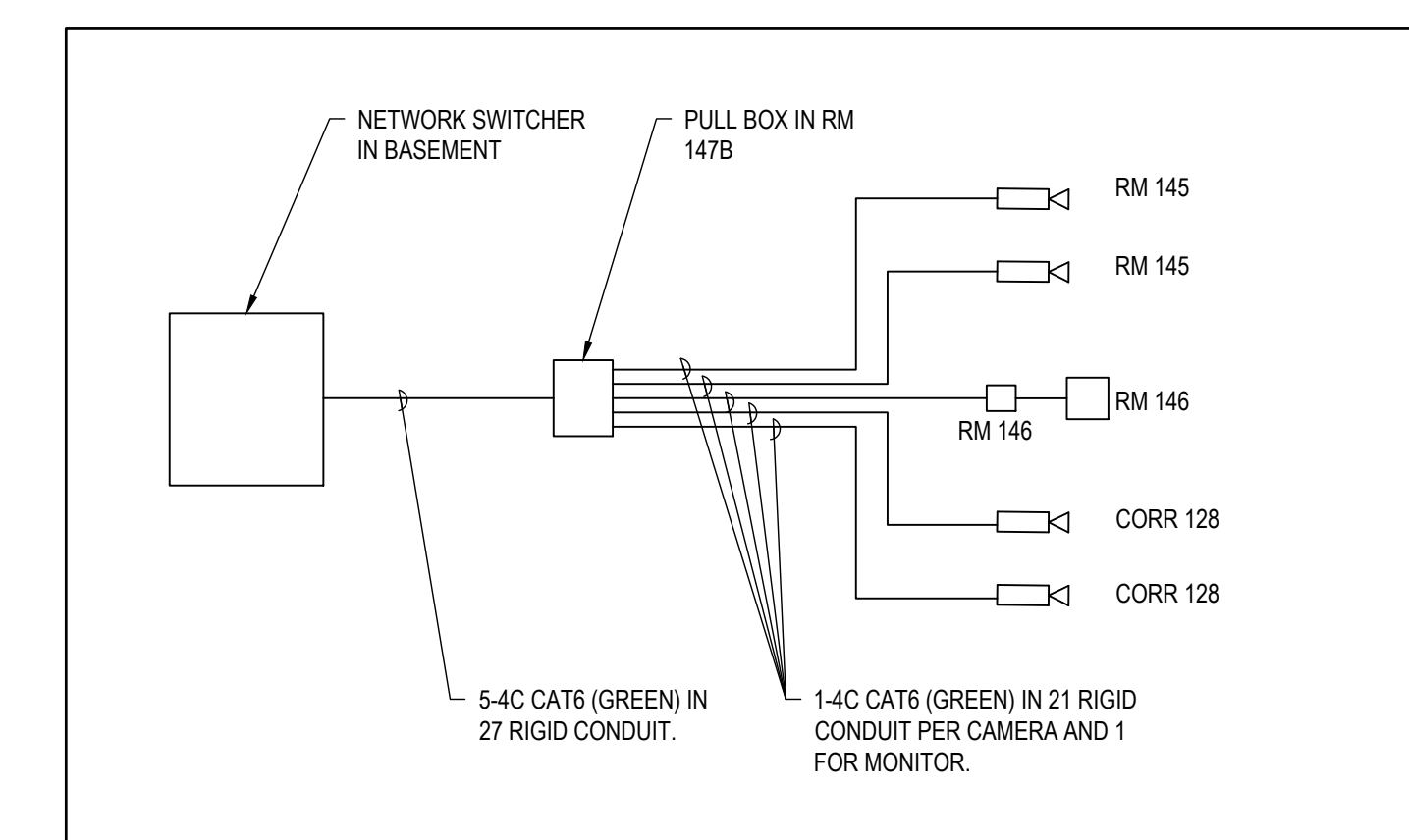
KW	LEG	DESCRIPTION	BKR	CCT #	CCT #	BKR	DESCRIPTION	LEG	KW
3	L	LIGHTING	15	1	2	15	DRUG/OD CONTROL PANEL	P	2
5	P	RECOVERY ROOM REC. ES & PB	15	3	4	15	RECEPTACLE MONITOR	P	2
4	P	SHOWER INMATE/SEARCH ROOM REC	15	5	6	15	RECEPTACLE KVM	P	1
		SPARE	15	7	8	15	SPARE		
		SPARE	15	9	10	15	SPARE		
		SPACE		11	12		SPACE		
		SPACE		13	14		SPACE		
		SPACE		15	16		SPACE		
		SPACE		17	18		SPACE		
		SPACE		19	20		SPACE		

TYPE: SURFACE MOUNT
 SHORT CIRCUIT RATING: 10 KAIC
 MAINS RATING: 100 A
 MAIN BREAKER CW BARRIER: N/A
 VOLTAGE RATING: 120/208V 3PH 4W
 LEGEND:
 P-POWER, H-HEATING, LA-LIGHTING, M-MOTOR, *GFCI BKR

2 PANEL SCHEDULE DL
 SCALE: N.T.S.



3 SERVICE SCHEMATIC
 SCALE: N.T.S.



4 CCTV SCHEMATIC
 SCALE: N.T.S.

CONTRACT DRAWINGS
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Detail No. / No. du détail	drawing no. / où détail required / dessin no. / où détail exigé
A	
B	
C	

project title / titre du projet
MILLHAVEN INSTITUTION
 CSC
 5775 BATH RD.
 BATH, ON K0H 1G0
DRY CELL RELOCATION - STRUCTURED INTERVENTION UNIT

drawing title / titre du dessin
ELECTRICAL BASEMENT LAYOUT PANEL SCHEDULE, SERVICE AND CCTV SCHEMATICS

drawn by / dessiné par **OK**

designed by / conçu par **GL/OK**

approved by / approuvé par **NM**

bid / offre project manager / administrateur de projets

project date / date du projet **2021-02-19**

project no. / no. du projet **R.106776.001**

drawing no. / dessin no. **E-503**