

Addendum #10

CONSIDER IN YOUR RESPONSE/BID THE FOLLOWING ITEMS OF ADDITION, DELETION OR CLARIFICATION. INDICATE IN THE SPACE PROVIDED ON THE RESPONSE/BID FORM THAT YOU HAVE RECEIVED AND INCLUDED FOR THE REQUIREMENTS OF THIS ADDENDUM. SICKKIDS MAY, IN ITS SOLE DISCRETION ANSWER SIMILAR QUESTIONS FROM VARIOUS RESPONDENTS ONLY ONCE.

RE: TENTATIVE TIMETABLE R6, DRAWINGS AND DOCUMENTS

a. TENTATIVE TIMETABLE R6

The Tentative Timetable has been revised, as follows:

RFQ# 2526-72-000 Tentative Timetable R6		
Event	Date	Time (EST)
BID SUBMISSION DEADLINE www.biddingo.com	December 17th, 2025 December 19 th , 2025	14:00:00 hrs

b. DRAWINGS

- .1 Drawing
 - .1 AF-02-BW-03 - LEVEL 1 Impact Ceiling Plan & Level Demolition RCP
 - .1 Drawing bubbled areas outlines the increased area of ceiling work impacted by Structural, Mechanical and Electrical scope. Note: GC to provide new spray foam fireproofing to all new steel members and existing fireproofed areas damaged by construction work".
 - .2 S01-01 – General notes
 - .1 Revised concrete compressive strengths for housekeeping pads
 - .3 S02-01 – Typical Details
 - .1 Revised TDC-18 to specify CSP level for bonding new concrete to existing concrete
 - .4 S22-02 – Level 2 Enlarged Floor Framing Plan
 - .1 Modified reinforcement below level 2 in accordance with the vibration requirements indicated in report by Thornton Tomasetti, dated November 17, 2025
 - .2 Provided existing live loads and confirmation of capacity of structure per City of Toronto permit review comments
 - .5 S52-01 – Details
 - .1 Updated sections and details to show revised framing

c. DOCUMENTS

- .1 The following Addenda, prepared by engineering disciplines, are issued with Addendum No. 7:
 - .1 Mechanical Addendum No M-3
 - .2 Electrical Addendum No. E-3.
 - .3 Structural Addendum No.

We look forward to your diligent participation to ensure the success of this project.

Arash Hojabri, MBA

(Pronouns: he/him)

Senior Procurement Specialist

The Hospital for Sick Children

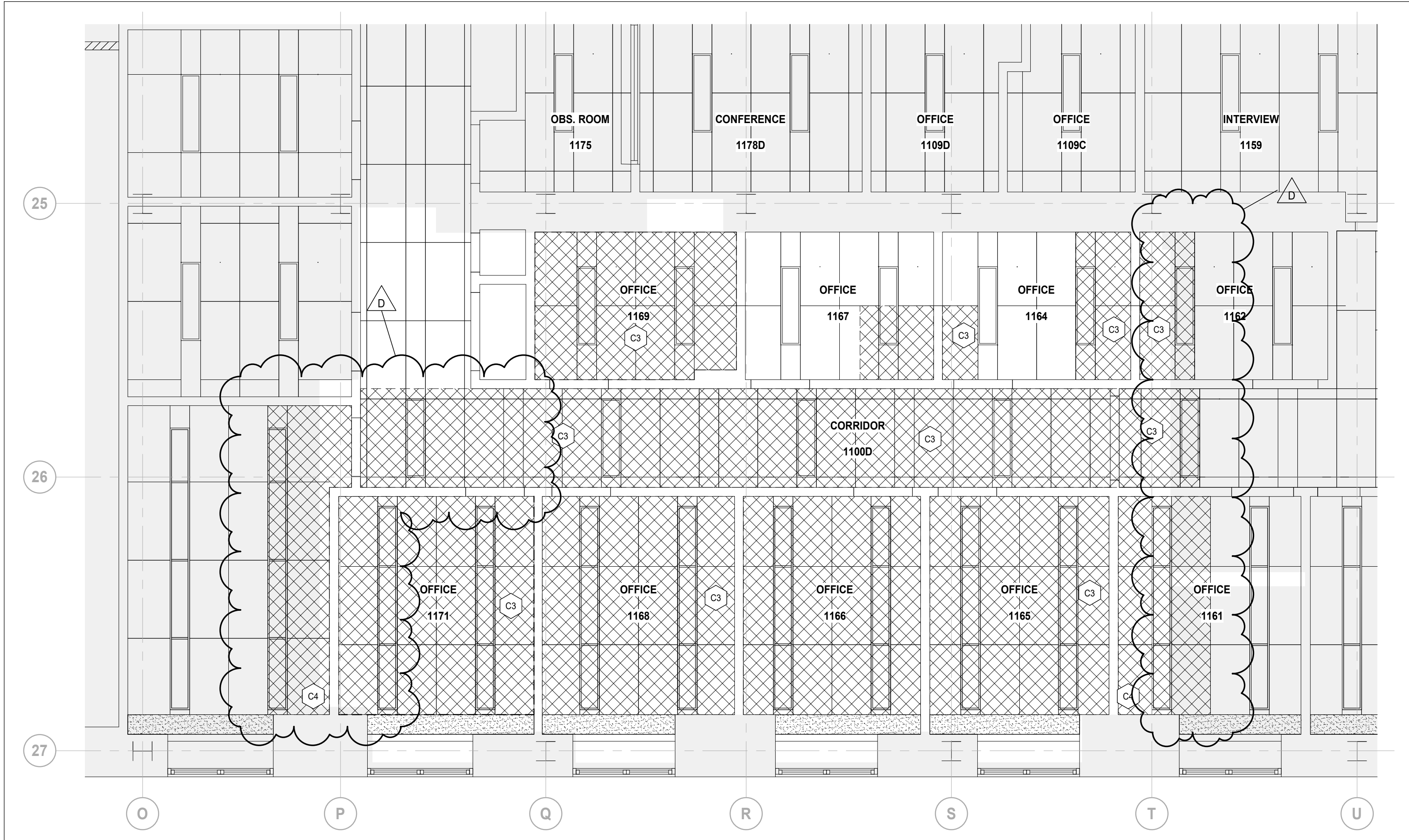
Phone: [416.813.7654](tel:416.813.7654) Ext. 401788

Cell: [416.834.4857](tel:416.834.4857)

e-mail: arash.hojabri@sickkids.ca

SickKids public tenders landing page on [Biddingo.com](https://www.biddingo.com/sickkids): www.biddingo.com/sickkids .

END OF ADDENDUM



2 LEVEL 1 - IMPACT CEILING PLAN

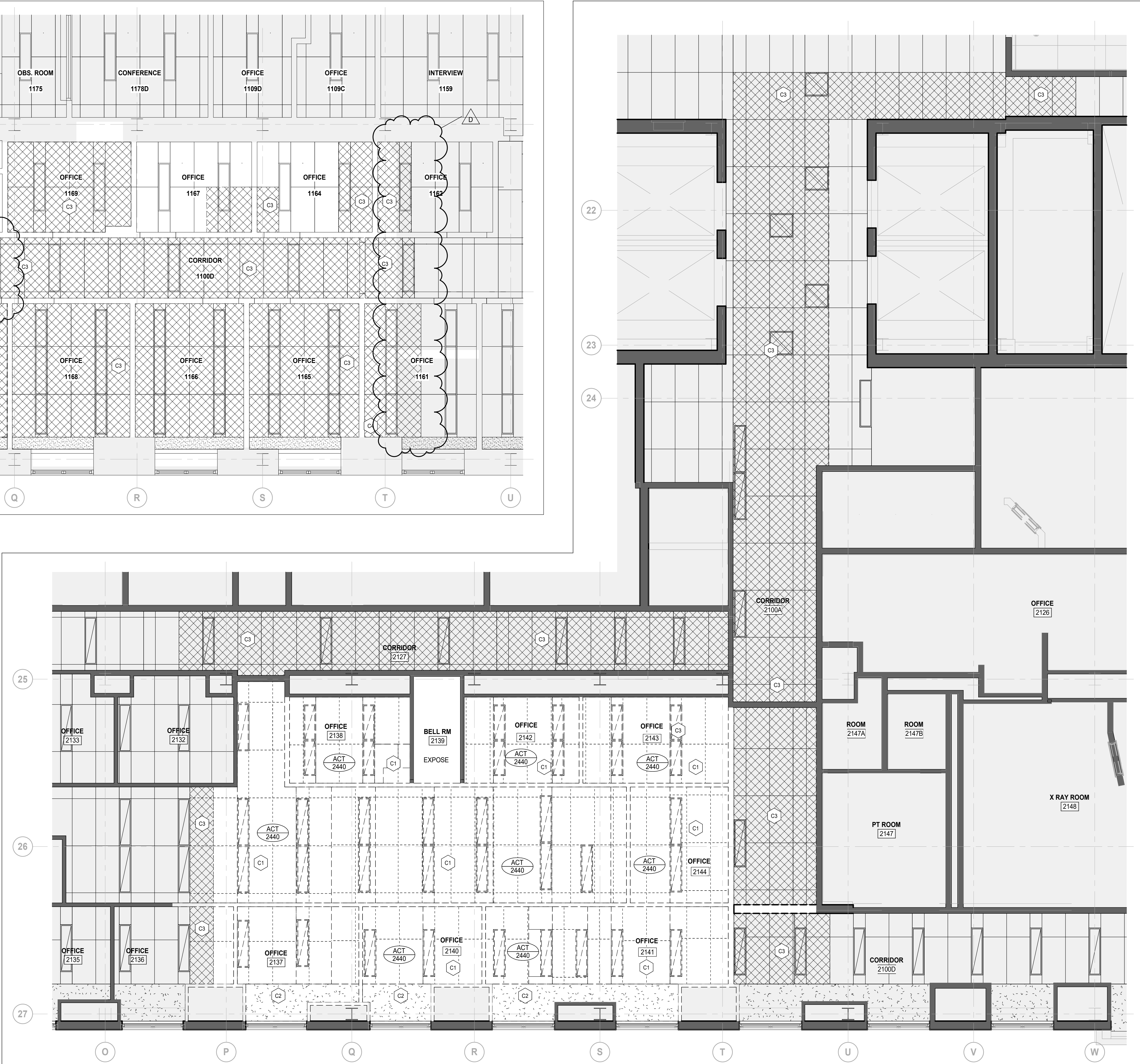
AF-02-BW-03 SCALE: 1 : 50

DEMOLITION NOTES

- C1 REMOVE AND DISPOSE OF EXIST. ACOUSTICAL CEILING SYSTEM ENTIRELY, INCLUDING TILES, GRIDS, SUSPENSION SYSTEM, ACCESSORIES, LIGHT FIXTURES, MECH. & ELECT. COMPONENTS.
- C2 REMOVE AND DISPOSE OF EXIST. GYP. BD. BULKHEADS INCLUDING FRAMING, ACCESSORIES.
- C3 TEMPORARILY REMOVE EXIST. ACOUSTICAL CEILING TILES INCLUDING MECH, ELECTR. FIXTURES, ACCESSORIES AND GRID IN GOOD CONDITION TO COMPLETE MECH/ELECT. WORK. UPON COMPLETION RE-INSTALL CEILING AND ALL LIGHT FIXTURES, MECH., ELECTR. COMPONENTS & ACCESSORIES. HANDLE ALL COMPONENTS CAREFULLY, CLEAN & STORE FOR RE-INSTALLATION. SEE MECH. AND ELECT. DRAWINGS FOR ADDITIONAL INFORMATION. REPLACE DAMAGED TILES & CEILING GRIDS W/ NEW TO MATCH EXISTING. REFER TO M&E DRAWINGS FOR FULL EXTENT OF TEMPORARY REMOVALS TO FACILITATE M&E WORK.
- C4 REFER TO NOTE #12 ON THE DEMOLITION PLAN NOTES REGARDING EXISTING DUCT WORK MECHANICAL COORDINATION AND FIRE RATING REINSTATEMENT.

RCP DEMOLITION LEGEND

- EXISTING TO REMAIN. AREA NOT INCLUDED IN PROJECT SCOPE
- EXISTING ACOUSTIC CEILING TILE TO BE REMOVED
- EXISTING GYPSUM BOARD CEILING TO BE REMOVED
- EXISTING ACOUSTIC CEILING TILE TO REMAIN
- EXISTING WALLS TO REMAIN
- EXISTING RETURN AIR GRILLE TO REMAIN
- EXISTING SUPPLY AIR DIFFUSER TO REMAIN
- EXISTING LIGHT FIXTURE TO REMAIN



1 LEVEL 2 - DEMOLITION RCP

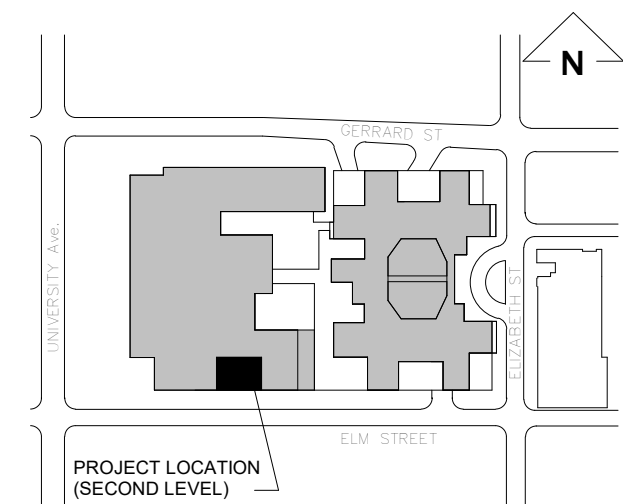
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DATE	ISSUED FOR	REV
2024-12-19	50% CD	A
2025-08-28	ISSUED FOR 95% CD	B
2025-10-01	TENDER-PERMIT	C
2025-12-09	ISSUED FOR ADD 10	D

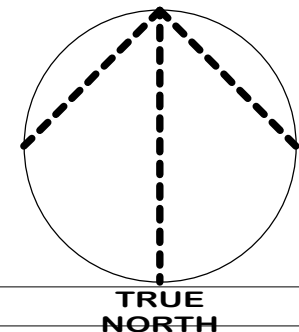
This drawing has been prepared solely for the use of SickKids and there are no representations of any kind made by NORR limited architects and engineers to any party with whom NORR limited architects and engineers has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Keyplan



North Arrow



Detail Symbol

Detail No.
Sheet No.

Seal

NORR

NORR Architects & Engineers Limited

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North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
norr.com

Project Manager

J. Dignazio

Drawn

G. Milani

Project Leader

M. Al-Nuaimi

Checked

M. Al-Nuaimi

Client

SickKids
555 University Ave., Toronto, ON M5G 1X8

Project

SICKKIDS - SPECT CT ROOM

555 UNIVERSITY AVENUE, LEVEL 2, TORONTO,
ON M5G1X8

Drawing Title

**LEVEL 1 IMPACT
CEILING PLAN & LEVEL 2
DEMOLITION RCP**

Check Scale (may be photo reduced)

0 1inch 0 10mm

Project No.

HS1024-0175

Drawing No.

AF-02-BW-03

Project Name:	SickKids Nuclear Medicine Spect CT	Date Issued:	December 9, 2025
Quasar Project #:	HC-21-129		
Distribution			
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Addendum #:	E-3		
Revision #:	0		

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

Changes to Drawings:

1. Drawing EA 01 EW 02

- Modified area of scope and associated notes with regards to modifications in structural scope.

2. Drawing EP 02 EW 01

- Additional modifications to note as clouded for General Sheet Notes, Sheet keynotes, Sheet notes, Manufacturer Electrical sheet notes.
- Updated location of camera and speaker and proposed associated conduit routing from spec ct room to observation room.

3. Drawing ED 02 EW 02

- Added two manufacturers details for PDU and MDP.
- Added General Electrical Notes:
- "UNLESS OTHERWISE NOTED ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING, BOXES AND CONDUIT, COMPLETE WITH INSTALLATION PER COORDINATION WITH MANUFACTURER'S REQUIREMENT. IN ANY INSTANCE WHERE THE DETAIL MENTIONS SUPPLIED BY CUSTOMER, ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL PER MANUFACTURER REQUIREMENTS. IN INSTANCES WHERE DETAILS MENTIONS SUPPLIED BY GE, ELECTRICAL CONTRACTOR SHALL COORDINATE AND INSTALL PER MANUFACTURER REQUIREMENTS. REFER TO EP 02 EW 01 FOR ADDITIONAL MANUFACTURER NOTES."

Quasar Consulting Group



Jomuel Estranero, P.Eng.
 Electrical Engineer (Team Lead)

SHEET KEYNOTES

- LIGHTING FIXTURE SHOWN FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO ENSURE ALL NORMAL AND EMERGENCY LIGHTING REMOVED FOR ELECTRICAL AND MECHANICAL WORK TO TAKE PLACE IS FULLY FUNCTIONAL AND TESTED UPON REINSTALLATION.
- FIRE ALARM DEVICE SHOWN FOR REFERENCE ONLY. ELECTRICAL CONTRACTOR TO ENSURE ANY FIRE ALARM REMOVED FOR ELECTRICAL AND MECHANICAL WORK TO TAKE PLACE SHALL BE RE-INSTALLED AND RE-VERIFIED TO BE IN PROPER WORKING CONDITION UPON COMPLETION OF RE-INSTALLATION.
- COORDINATE ALL CONDUIT AND FEEDER RUNS FOR SPEC CT AND CONTROL ROOM WITH SPEC CT MANUFACTURER, PRIOR TO ROUGH-IN AND CORING.

ELECTRICAL CONTRACTOR ENSURE TO CARRY ADDITIONAL 5% CONTINGENCY COST FOR ALL ELECTRICAL DEVICES THAT MAY NOT BE SHOWN BUT REQUIRE RE-INSTALLATION, TESTING OR MODIFICATION.

GENERAL SHEET NOTES

- IN EVERY INSTANCE WHERE IT IS REQUIRED IN THE SPECIFICATION OR ON DRAWING THAT EQUIPMENT AND MATERIALS BE REMOVED FROM EXISTING LOCATIONS AND RE-INSTALLED, EITHER IN WHOLE OR IN PART IN NEW LOCATIONS, ALL SUCH EQUIPMENT AND MATERIALS SHALL BE THOROUGHLY CLEANED AND WHERE NECESSARY PUT INTO GOOD OPERATING CONDITION BEFORE BEING RE-INSTALLED IN THE NEW LOCATION. TEST ALL PARTS OF THE RE-USED OR RELOCATED ELECTRICAL EQUIPMENT AND CORRECT ALL FAULTS AND GROUNDS.
- ALL OPENINGS IN BUILDING RISER, IF APPLICABLE, SHALL BE SEALED WITH APPROVED FIRE STOP MATERIAL. ANY FIREPROOFING MATERIAL REMOVED WILL BE REPLACED WITH A SUITABLE AND APPROVED FIREPROOFING MATERIAL AND SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS TO APPLICABLE BUILDING AND FIRE CODES.
- CONTRACTOR TO CONDUCT OWN SURVEY AND VERIFY EXISTING CONDITIONS.
- COORDINATE WITH THE CLIENT TO CONFIRM EQUIPMENT OR SYSTEMS/DEVICES TO REMAIN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REFINISHING OF DAMAGED BUILDING AREAS AND FINISHES AFFECTED BY THE WORK AS OUTLINED UNDER SCOPE OF WORK OF THIS PROJECT.
- ALL INSTALLATIONS WITHIN EXISTING AREAS SHALL BE COORDINATED WITH OWNER AND BASE BUILDING MANAGEMENT. INSTALLATION MUST BE PERFORMED IN A MANNER TO ELIMINATE ANY INTERFERENCES TO STAFF AND NORMAL OPERATION OF THE FACILITY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND DISTRIBUTION OF TEMPORARY POWER AND LIGHTING WITHIN THE PREMISES DURING THE CONSTRUCTION PERIOD. EXPOSED ELECTRICAL CORDS OUTSIDE THE AREA OF WORK SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, CONSULTANTS, AND THE OWNER. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
- CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULLBOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE OF NON-ERASABLE LAMACOID TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANT.
- CONTRACTOR TO ENSURE ANY DAMAGE TO EXISTING ELECTRICAL CONDUIT AND CONNECTION TO BE REPLACED OR FIXED PRIOR TO RE-INSTALLATION.
- CONTRACTOR TO NOTIFY OWNER OF ANY EXISTING DAMAGES PRIOR TO COMMENCING OF WORK. ALL EXISTING EQUIPMENT AND FIXTURES INSIDE THE PATIENT ROOM AND WASHROOM TO BE THOROUGHLY INSPECTED, ANY COMPROMISE TO THE INTEGRITY SHOULD BE MADE KNOWN TO THE OWNER.
- WHERE POSSIBLE, OUTLINE ALL EXISTING AND NEW FIXTURES WITHIN THE PATIENT ROOM WITH ANTI PICK CAULKING.
- CONTRACTOR TO TRACK AND CONFIRM LOCATION OF FEEDER AND BREAKER TO SOURCE PRIOR TO DISCONNECTION, AND ENSURE BREAKER IS SECURELY TURNED OFF AND LOCKED.
- WHEREVER POSSIBLE, REUSE EXISTING CIRCUITS MADE AVAILABLE DURING DEMOLITION PHASE. WHERE NEEDED PROVIDE AND INSTALL NEW COMPATIBLE BREAKERS AND WIRING. CONTRACTOR TO VERIFY AVAILABLE CIRCUITS ON SITE, AS PANEL BOARD SCHEDULES MAY NOT BE UP TO DATE.
- CONTRACTOR TO ENSURE THAT ALL RECEPTACLES WITHIN SCOPE OF WORK IS HOSPITAL GRADE OUTLETS. REPLACE EXISTING IF NECESSARY.
- ASBESTOS CONTAINING FIREPROOFING IS PRESENT IN THE CEILING SPACE. TYPE 2 AND TYPE 3 ASBESTOS PROCEDURES ARE TO BE FOLLOWED WHEN WORKING IN THE CEILING SPACE AND IMPACTING PLUMBING. REFER TO HAZMAT REPORT IN DIVISION 2 SPECIFICATION SECTION, AS REQUIRED.
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- ALL PREPARATORY WORK SHALL BE PERFORMED DURING NORMAL BUSINESS HOURS WHICH ARE MONDAY TO FRIDAY 7:00AM TO 3:00PM. CONTRACTOR TO COORDINATE FINAL SCHEDULE WITH THE HOSPITAL. MINIMIZE AND COORDINATE ALL RELATED SHUTDOWNS AS PART OF ANY MODIFICATION TO EXISTING SYSTEM. ANY SHUTDOWNS TO BE DONE AFTER HOURS, MONDAY TO FRIDAY 10:00PM TO 5:00AM. WORK OUTSIDE OF AREA OF WORK IDENTIFIED IN THE ELECTRICAL KEY OR PARTS PLAN WILL BE OCCUPIED FOR THE ENTIRE DURATION OF THE PROJECT. CEILING INVESTIGATIONS ARE TO BE COMPLETED AFTER HOURS BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH SICKKIDS FACILITY PROCEDURES. CONSTRUCTION WORK OUTSIDE THE AREA OF WORK TO BE COORDINATED AND COMPLETED AFTER HOUR OR SUCH THAT SICKKIDS OPERATIONS CAN CONTINUE NORMALLY THROUGH SPACES WITHOUT SHUTTING DOWN ANY SPACE. REFER TO DIVISION 1 SPECIFICATIONS FOR AFTER HOURS WORK PERIODS AND SPECIFICATION FOR HAZMAT REPORT.

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DEMOLITION SHEET NOTES

- COORDINATE ALL DEMOLITION WORK WITH GENERAL CONTRACTOR. REFER TO CONSTRUCTION PHASING SCHEDULE.
- VISIT THE SITE DURING THE TENDERING PERIOD TO DETERMINE THE EXACT SCOPE OF DEMOLITION WORK AND TO BECOME THOROUGHLY FAMILIAR WITH ALL CONDITIONS TO MEET IN CARRYING OUT SAME. REQUEST FOR EXTRAS WILL NOT BE CONSIDERED FOR FAILURE TO PROPERLY EVALUATE CONDITIONS WHICH AFFECT THE SCOPE OF DEMOLITION WORK.
- IN SOME CASES, GENERAL LOCATIONS AND TYPES OF SOME ELECTRICAL EQUIPMENT ARE INDICATED IN ORDER TO ASSIST IN EVALUATING SCOPE OF DEMOLITION WORK.
- REFER TO ARCHITECTURAL DRAWINGS ROOM FINISH SCHEDULES FOR ADDITIONAL DEMOLITION NOTES.
- ELECTRICAL CONTRACTOR TO PRICE UP TO 5% FOR ADDITIONAL DEVICES THAT MAY NOT BE CAPTURED IN PARTS PLAN DUE TO EXISTING SITE CONDITIONS.

GENERAL SHEET NOTES

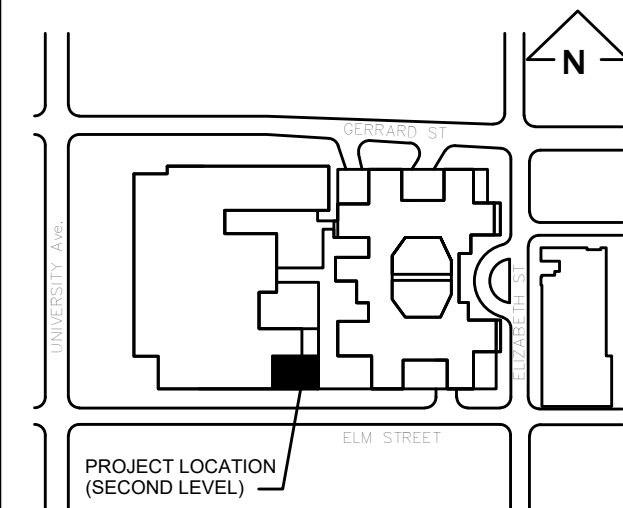
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DATE	ISSUED FOR	REV
2024-12-19	50% CD	A
2025-02-21	90% CD	B
2025-06-13	COSTING	C
2025-08-28	95% CD	D
2025-10-01	TENDER - PERMIT	0
2025-11-24	ELECTRICAL ADDENDUM E1	1
2025-12-09	ELECTRICAL ADDENDUM E3	2

This drawing has been prepared solely for the use of SickKids and there are no representations of any kind made by NORR limited architects and engineers to any party with whom NORR limited architects and engineers has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Keyplan



North Arrow

Detail Symbol

Detail No.
Sheet No.

Seal



Project Manager JE	Drawn JE/JS
Project Leader JG	Checked JE

Client
SickKids
555 University Ave., Toronto, ON M5G 1X8

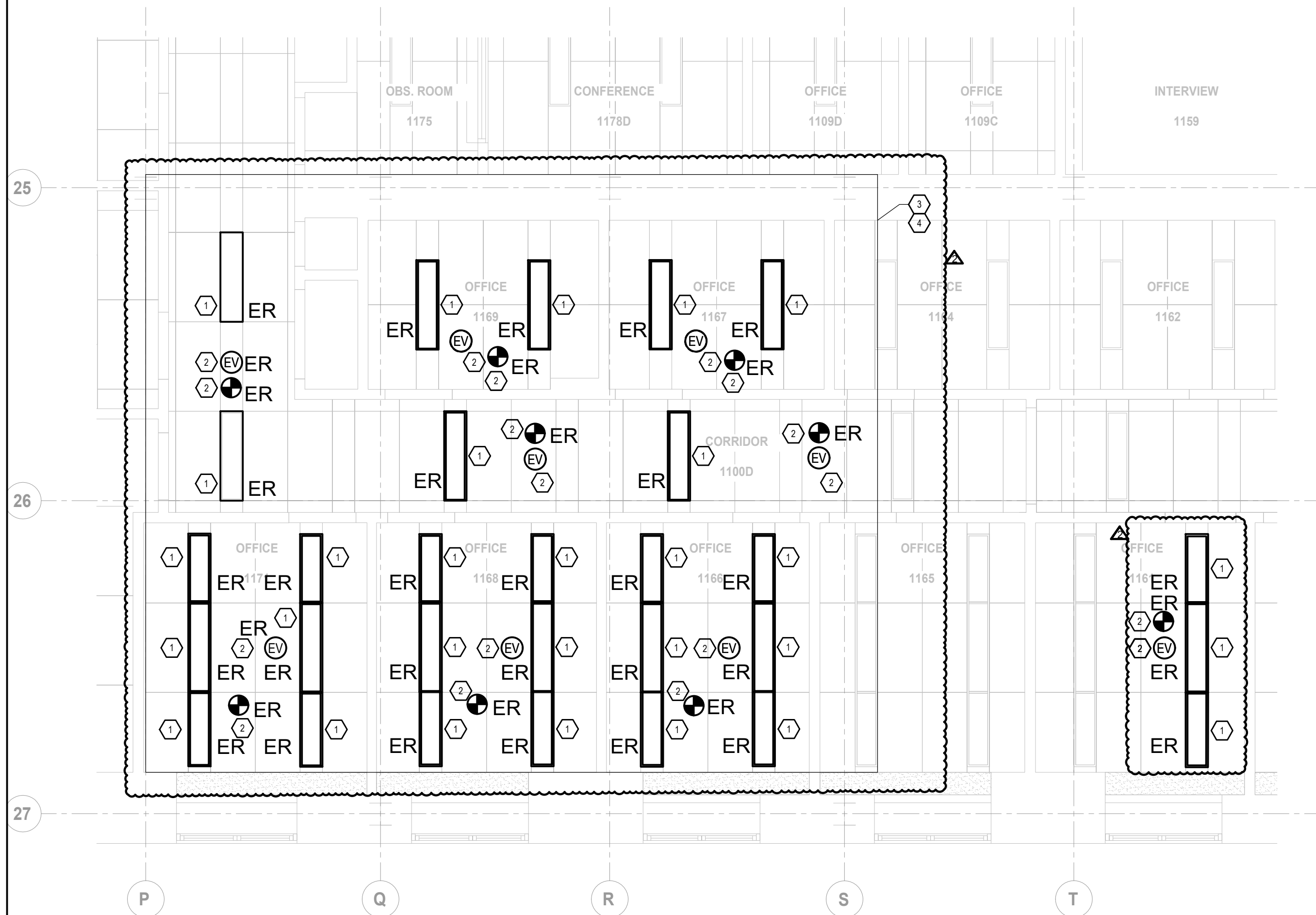
Project
SICKKIDS - SPEC CT ROOM
555 UNIVERSITY AVENUE, MAIN FLOOR,
TORONTO, ON M5G1X8

Drawing Title
1ST FLOOR ENLARGED
PARTS PLAN

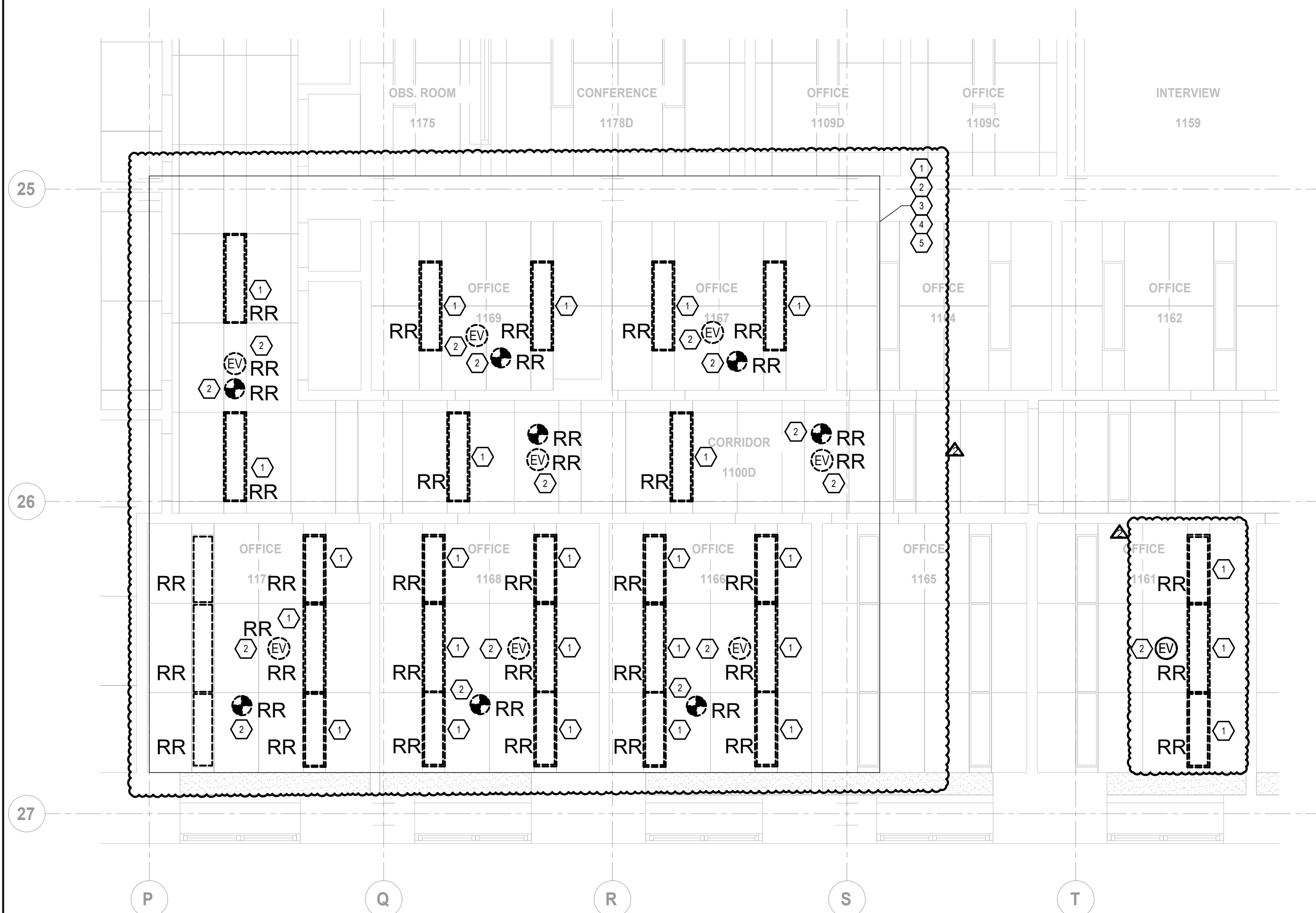
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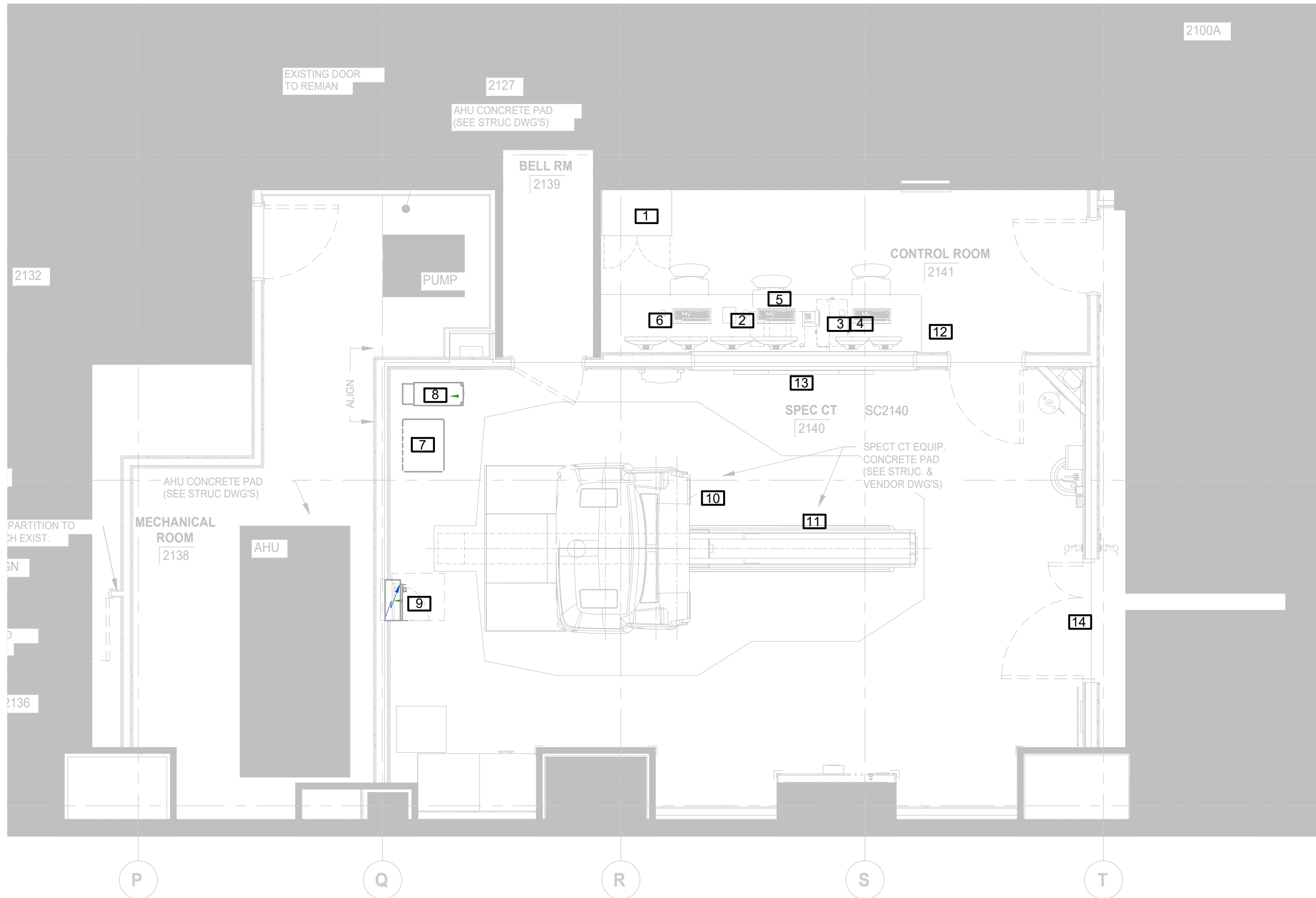
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1 LEVEL 1 PART PLAN - ELECTRICAL & LIGHTING - NEW
SCALE: 1:100



1 LEVEL 1 PART PLAN - ELECTRICAL & LIGHTING - DEMO
SCALE: 1:100



LEGEND					
A	GE SUPPLIED	D	AVAILABLE FOR GE		
B	GE SUPPLIED/CONTRACTOR INSTALLED	E	EQUIPMENT EXISTING IN ROOM		
C	CUSTOMER/CONTRACTOR SUPPLIED AND INSTALLED	*	ITEM TO BE REINSTALLED FROM ANOTHER SITE		
BY	ITEM	DESCRIPTION	MAX HEAT OUTPUT (BTU/h)	WEIGHT (lbs)	MAX HEAT OUTPUT (W)
A	1	STORAGE CABINET	-	90	-
A	2	OPERATOR CONSOLE	3200	144	938
A	3	NM ACQUISITION STATION	256	25	75
A	4	IMAGE GENERATOR CONSOLE	512	49	150
A	5	OPERATOR'S CHAIR	-	-	-
A	6	XELERIS V WORKSTATION	273	35	80
A	7	POWER DISTRIBUTION UNIT (PDU)	3398	816	996
A	8	PARTIAL UPS 14.4 KVA	5122	609	1501.1
A	9	MAIN DISCONNECT PANEL (MDP)	-	115	-
A	10	GANTRY	17138	7144	5023
A	11	PATIENT TABLE	682	682	200
C	12	COUNTER TOP FOR EQUIPMENT - PROVIDE GROMMETTED OPENINGS AS REQUIRED TO ROUTE CABLES			
C	13	LEAD GLASS WINDOW			
C	14	MINIMUM OPENING FOR EQUIPMENT DELIVERY IS 1219 mm x 2032 mm [40 in x 80 in] CONTIGENT ON A 2438 mm [96 in] CORRIDOR WIDTH			

GENERAL SHEET NOTES

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- ALL INSTALLATIONS WITHIN EXISTING AREAS SHALL BE COORDINATED WITH OWNER AND BASE BUILDING MANAGEMENT. INSTALLATION MUST BE PERFORMED IN A MANNER TO ELIMINATE ANY INTERFERENCES TO STAFF AND NORMAL OPERATION OF THE FACILITY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION AND DISTRIBUTION OF TEMPORARY POWER AND LIGHTING WITHIN THE PREMISES DURING THE CONSTRUCTION PERIOD. EXPOSED ELECTRICAL CORDS OUTSIDE THE AREA OF WORK SHALL NOT BE PERMITTED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL THE WORK WITH ALL OTHER TRADES, CONSULTANTS, AND THE OWNER. ALL WORK SHALL BE SCHEDULED AND CARRIED OUT BY THE CONTRACTOR IN A MANNER TO ENSURE CONTINUED AND NON-INTERRUPTED OPERATION OF EXISTING FACILITY.
- CONTRACTOR SHALL IDENTIFY AND LABEL CLEARLY ALL CIRCUITS, WIRING, SERVICES, JUNCTION BOXES, PULLBOXES, DEVICES AND EQUIPMENT INSTALLED AND CONNECTED UNDER SCOPE OF WORK OF THIS PROJECT. IDENTIFICATION SHALL BE AS PER OWNER'S REQUIREMENTS AND ALL MARKINGS SHALL BE OF NON-ERASABLE LAMACORD TYPE. COORDINATE ALL LABELING WITH THE OWNER AND CONSULTANT.
- CONTRACTOR TO ENSURE ANY DAMAGE TO EXISTING ELECTRICAL CONDUIT AND CONNECTION TO BE REPLACED OR FIXED PRIOR TO RE-INSTALLATION.
- CONTRACTOR TO NOTIFY OWNER OF ANY EXISTING DAMAGES PRIOR TO COMMENCING OF WORK. ALL EXISTING EQUIPMENT AND FIXTURES INSIDE THE PATIENT ROOM AND WASHROOM TO BE THOROUGHLY INSPECTED, ANY COMPROMISE TO THE INTEGRITY SHOULD BE MADE KNOWN TO THE OWNER.
- WHERE POSSIBLE, OUTLINE ALL EXISTING AND NEW FIXTURES WITHIN THE PATIENT ROOM WITH ANTI PKCK CAULKING.
- CONTRACTOR TO TRACK AND CONFIRM LOCATION OF FEEDER AND BREAKER TO SOURCE PRIOR TO DISCONNECTION, AND ENSURE BREAKER IS SECURELY TURNED OFF AND LOCKED.
- WHEREVER POSSIBLE, REUSE EXISTING CIRCUITS MADE AVAILABLE DURING DEMOLITION PHASE. WHERE NEEDED PROVIDE AND INSTALL NEW COMPATIBLE BREAKERS AND WIRING. CONTRACTOR TO VERIFY AVAILABLE CIRCUITS ON SITE, AS PANEL BOARD SCHEDULES MAY NOT BE UP TO DATE.
- ELECTRICAL CONTRACTOR TO ENSURE THAT ALL ELECTRICAL DEVICES AND RECEPTACLES WITHIN SCOPE OF WORK (SPEC CT ROOM AND OBSERVATION ROOM) IS HOSPITAL GRADE. REPLACE EXISTING IF NECESSARY. ALL DEVICE WIRING, CABLEING AND INSTALLATION TO FULLY MEET THE REQUIREMENTS SPECIFIED IN THE LATEST VERSION OF CSA 223 AND CSA 22000.

SHEET KEYNOTES

- PROVIDE CAT5 LINE IN 2" CONDUIT FOR PATIENT MONITORING, FROM SPEC CT ROOM TO OBSERVATION ROOM.
- NEW 30KVA TRANSFORMER SHALL BE HIGH MOUNTED, ELECTRICAL CONTRACTOR TO INCLUDE FOR ALL NECESSARY HARDWARE.
- DOOR INTERLOCK WITH WARNING LIGHT.

- PROVIDE 14AWG SPEAKER WIRES IN 2" CONDUIT FOR PA SPEAKER COMMUNICATIONS FROM SPEC CT ROOM TO OBSERVATION ROOM. POWER FOR AMPLIFIER WILL SHARE FROM THE NEAREST GENERAL RECEPTACLE CIRCUIT.
- OBSERVATION CAMERA LOCATION IS SHOWN FOR REFERENCE ONLY. COORDINATE WITH SICKKIDS PRIOR TO ROUGH-IN, PROVIDE ENOUGH CAT6 CABLEING IN 2" CONDUIT TO ALLOW FOR RELOCATION OF CAMERA.
- PROVIDE SHUNT TRIP BREAKER FOR EPO, CIRCUIT NUMBER 15 (15A 1P) FROM RP-2-1-3EA.
- ELECTRICAL CONTRACTOR TO INCLUDE IN BASE BID ALL NECESSARY WIRING BETWEEN THE PANELS, HARMONIC AND SINE WAVE FILTERS FOR VFD.

SHEET NOTES

- IT IS IMPORTANT THAT THE ELECTRICAL CONTRACTOR IS FAMILIAR WITH STAR GUIDE - PRE INSTALLATION MANUAL AND FINAL STAR GUIDE STUDY, IN ORDER TO ACCURATELY PRICE THE PROJECT AND TO ACCURATELY UNDERSTAND THE INTERCONNECTIONS AND INTERFACE OF EACH EQUIPMENT. PRIOR TO BID IF ANY QUESTION REGARDING FEEDER, CONDUIT, INTERCONNECTION OR APPLICATIONS WILL NEED TO BE ASKED PRIOR TO TENDER CLOSE. REFER TO ARCHITECTURAL SPECIFICATIONS APPENDIX A.4.4 SECTIONS E.2 ELECTRICAL LAYOUT, E.3 ELECTRICAL ELEVATIONS, E.4 POWER REQUIREMENTS E5- DETAILS- INTERCONNECTION. ANY CABLEING PROVIDED BY THE MANUFACTURER SHALL BE ROUTED AND INSTALLED BY ELECTRICAL CONTRACTOR IN ACCORDANCE TO THE SITE CONDITIONS AND INSTRUCTION OF THE MANUFACTURER. ALL NON MANUFACTURER SUPPLIED CABLEING AND INTERCONNECTIONS ARE TO BE SUPPLIED BY THE ELECTRICAL CONTRACTOR AND FIELD INSTALLED BY COORDINATION WITH THE MANUFACTURERS INSTALLATION GUIDE OR INSTRUCTIONS.

MANUFACTURER ELECTRICAL SHEET NOTES

- ALL WIRES SPECIFIED SHALL BE COPPER STRANDED, FLEXIBLE, THERMO-PLASTIC, COLOR CODED, CUT 10 FOOT LONG AT OUTLET BOXES, DUCT TERMINATION POINTS OR STUBBED CONDUIT ENDS. ALL CONDUCTORS, POWER, SIGNAL, AND GROUND, MUST BE RUN IN A CONDUIT OR DUCT SYSTEM. ELECTRICAL CONTRACTOR SHALL RING OUT AND TAG ALL WIRES AT BOTH ENDS. WIRE RUNS MUST BE CONTINUOUS COPPER STRANDED AND FREE FROM SPLICES.
- ALL ALUMINUM OR SOLID WIRES ARE NOT ALLOWED.
- WIRE SIZES GIVEN ARE FOR USE OF EQUIPMENT. LARGER SIZES MAY BE REQUIRED BY LOCAL CODES.
- IT IS RECOMMENDED THAT ALL WIRES BE COLOR CODED, AS REQUIRED IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- CONDUIT SIZES SHALL BE VERIFIED BY THE ARCHITECT, ELECTRICAL ENGINEER OR CONTRACTOR, IN ACCORDANCE WITH LOCAL OR NATIONAL CODES.
- CONVENIENCE OUTLETS ARE NOT ILLUSTRATED. THEIR NUMBER AND LOCATION ARE TO BE SPECIFIED BY OTHERS. LOCATE AT LEAST ONE CONVENIENCE OUTLET CLOSE TO THE SYSTEM CONTROL, THE POWER DISTRIBUTION UNIT AND ONE ON EACH WALL OF THE PROCEDURE ROOM. USE HOSPITAL APPROVED OUTLET OR EQUIVALENT.
- GENERAL ROOM ILLUMINATION IS NOT ILLUSTRATED. CAUTION SHOULD BE TAKEN TO AVOID EXCESSIVE HEAT FROM OVERHEAD SPOTLIGHTS. DAMAGE CAN OCCUR TO CEILING MOUNTING COMPONENTS AND WIRING IF HIGH WATTAGE BULBS ARE USED. RECOMMEND LOW WATTAGE BULBS NO HIGHER THAN 75 WATTS AND USE DIMMER CONTROLS (EXCEPT MR). DO NOT MOUNT LIGHTS DIRECTLY ABOVE AREAS WHERE CEILING MOUNTED ACCESSORIES WILL BE PARKED.
- ROUTING OF CABLE DUCTWORK, CONDUITS, ETC., MUST RUN DIRECT AS POSSIBLE OTHERWISE MAY RESULT IN THE NEED FOR GREATER THAN STANDARD CABLE LENGTHS (REFER TO THE INTERCONNECTION DIAGRAM FOR MAXIMUM USABLE LENGTHS POINT 0 POINT).
- CONDUIT TURNS TO HAVE LARGE, SWEEPING BENDS WITH MINIMUM RADIUS IN ACCORDANCE WITH NATIONAL AND LOCAL ELECTRICAL CODES.
- A SPECIAL GROUNDING SYSTEM IS REQUIRED IN ALL PROCEDURE ROOMS BY SOME NATIONAL AND LOCAL CODES. IT IS RECOMMENDED IN AREAS WHERE PATIENTS MIGHT BE EXAMINED OR TREATED UNDER PRESENT, FUTURE, OR EMERGENCY CONDITIONS. CONSULT THE GOVERNING ELECTRICAL CODE AND CONFER WITH APPROPRIATE CUSTOMER ADMINISTRATIVE PERSONNEL TO DETERMINE THE AREAS REQUIRING THIS TYPE OF GROUNDING SYSTEM.
- THE MAXIMUM POINT TO POINT DISTANCES ILLUSTRATED ON THIS DRAWING MUST NOT BE EXCEEDED.
- PHYSICAL CONNECTION OF PRIMARY POWER TO GE EQUIPMENT IS TO BE MADE BY CUSTOMERS ELECTRICAL CONTRACTOR WITH THE SUPERVISION OF A GE REPRESENTATIVE. THE GE REPRESENTATIVE WOULD BE REQUIRED TO IDENTIFY THE PHYSICAL CONNECTION LOCATION AND INSURE PROPER HANDLING OF GE EQUIPMENT.
- GEHC CONDUCTS POWER AUDITS TO VERIFY QUALITY OF POWER BEING DELIVERED TO THE SYSTEM. THE CUSTOMERS ELECTRICAL CONTRACTOR IS REQUIRED TO BE AVAILABLE TO SUPPORT THIS ACTIVITY.

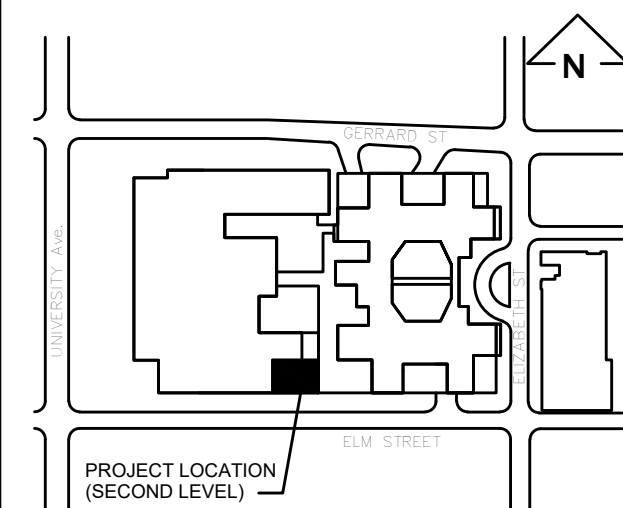
- ALL JUNCTION BOXES, CONDUIT, DUCT, DUCT DIVIDERS, SWITCHES, CIRCUIT BREAKERS, CABLE TRAY, ETC., ARE TO BE SUPPLIED AND INSTALLED BY CUSTOMERS ELECTRICAL CONTRACTOR.
- CONDUIT AND DUCT RUNS SHALL HAVE SWEEP RADIUS BENDS.
- CONDUITS AND DUCT ABOVE CEILING OR BELOW FINISHED FLOOR MUST BE INSTALLED AS NEAR TO CEILING OR FLOOR AS POSSIBLE TO REDUCE RUN LENGTH.
- CEILING MOUNTED JUNCTION BOXES ILLUSTRATED ON THIS PLAN MUST BE INSTALLED FLUSH WITH FINISHED CEILING.
- ALL DUCTWORK MUST MEET THE FOLLOWING REQUIREMENTS:
 - 1 DUCTWORK SHALL BE METAL WITH DIVIDERS AND HAVE REMOVABLE, ACCESSIBLE COVERS.
 - 2 DUCTWORK SHALL BE CERTIFIED/RATED FOR ELECTRICAL POWER PURPOSES.
 - 3 DUCTWORK SHALL BE ELECTRICALLY AND MECHANICALLY BONDED TOGETHER IN AN APPROVED MANNER.
 - 4 PVC AS A SUBSTITUTE MUST BE USED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- ALL OPENINGS IN RACEWAY AND ACCESS FLOORING ARE TO BE CUT OUT AND FINISHED OFF WITH GROMMET MATERIAL BY THE CUSTOMERS CONTRACTOR.
- GENERAL CONTRACTOR TO INSERT PULL CORDS FOR ALL CABLE RUN CONDUITS BETWEEN THE EQUIPMENT ROOM AND THE OPERATORS CONTROL ROOM.
- 10 FOOT PIGTAILS AT ALL JUNCTION POINTS.
- GROUNDING IS CRITICAL TO EQUIPMENT FUNCTION AND PATIENT SAFETY. ENSURE PROPER GROUNDING IS ACCOUNTED FOR AND IN COMPLIANCE WITH OESC AND Z32 STANDARDS.
- EXISTING CIRCUITS HAS BEEN RE-USED ENSURE THE PANEL SCHEDULE REFLECT THE CHANGES UPON COMPLETION OF RENOVATION. ENSURE ALL RECEPTACLES ARE HOSPITAL GRADE, INSTALLED AND TESTED PER OESC AND Z32 REQUIREMENTS.

DATE	ISSUED FOR	REV
2024-12-19	50% CD	A
2025-02-21	90% CD	B
2025-06-13	COSTING	C
2025-08-28	95% CD	D
2025-10-01	TENDER - PERMIT	0
2025-11-24	ELECTRICAL ADDENDUM E1	1
2025-12-01	ELECTRICAL ADDENDUM E2	2
2025-12-09	ELECTRICAL ADDENDUM E3	3

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Keyplan



North Arrow

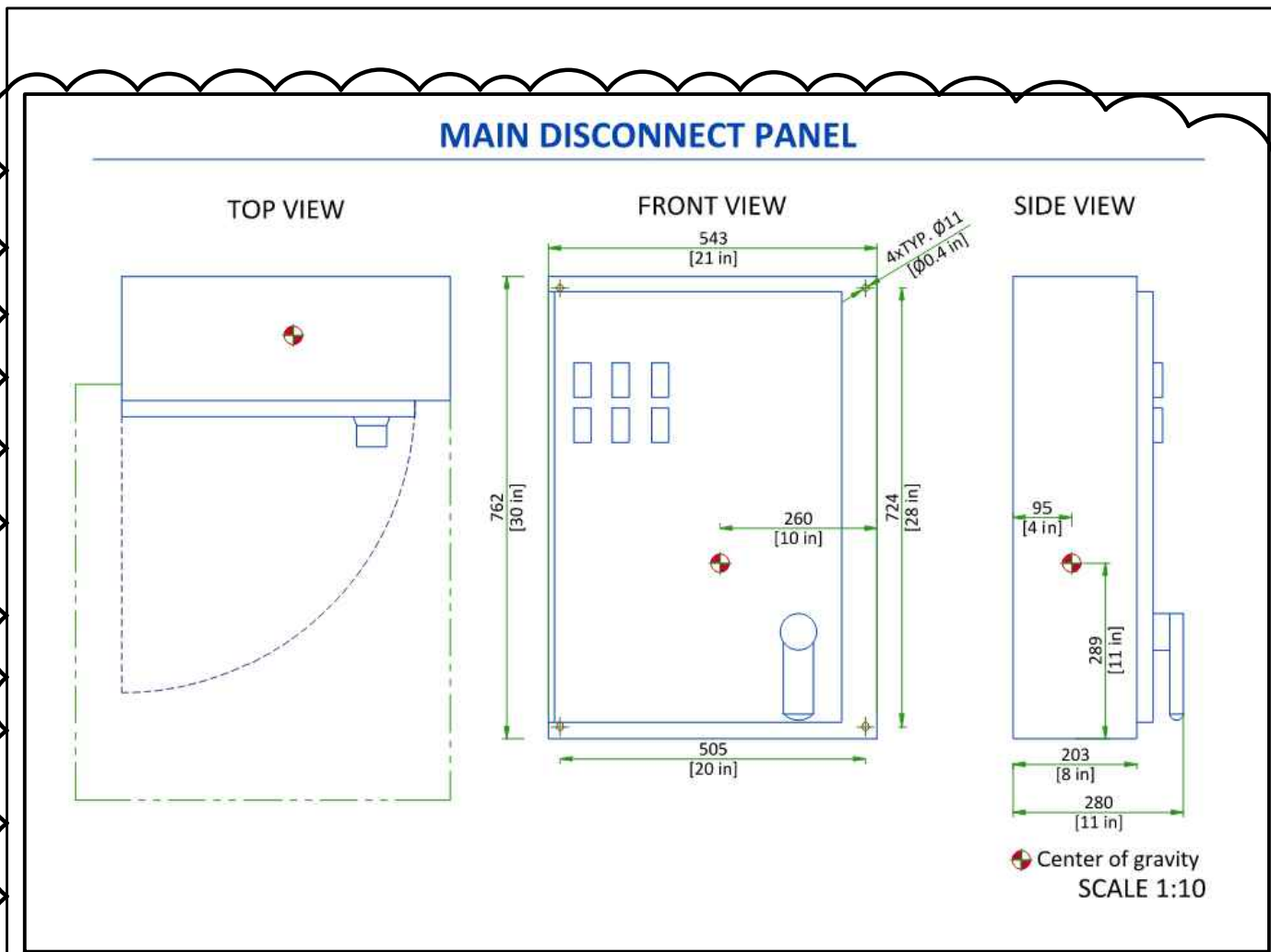
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Detail No.
Sheet No.

Seal

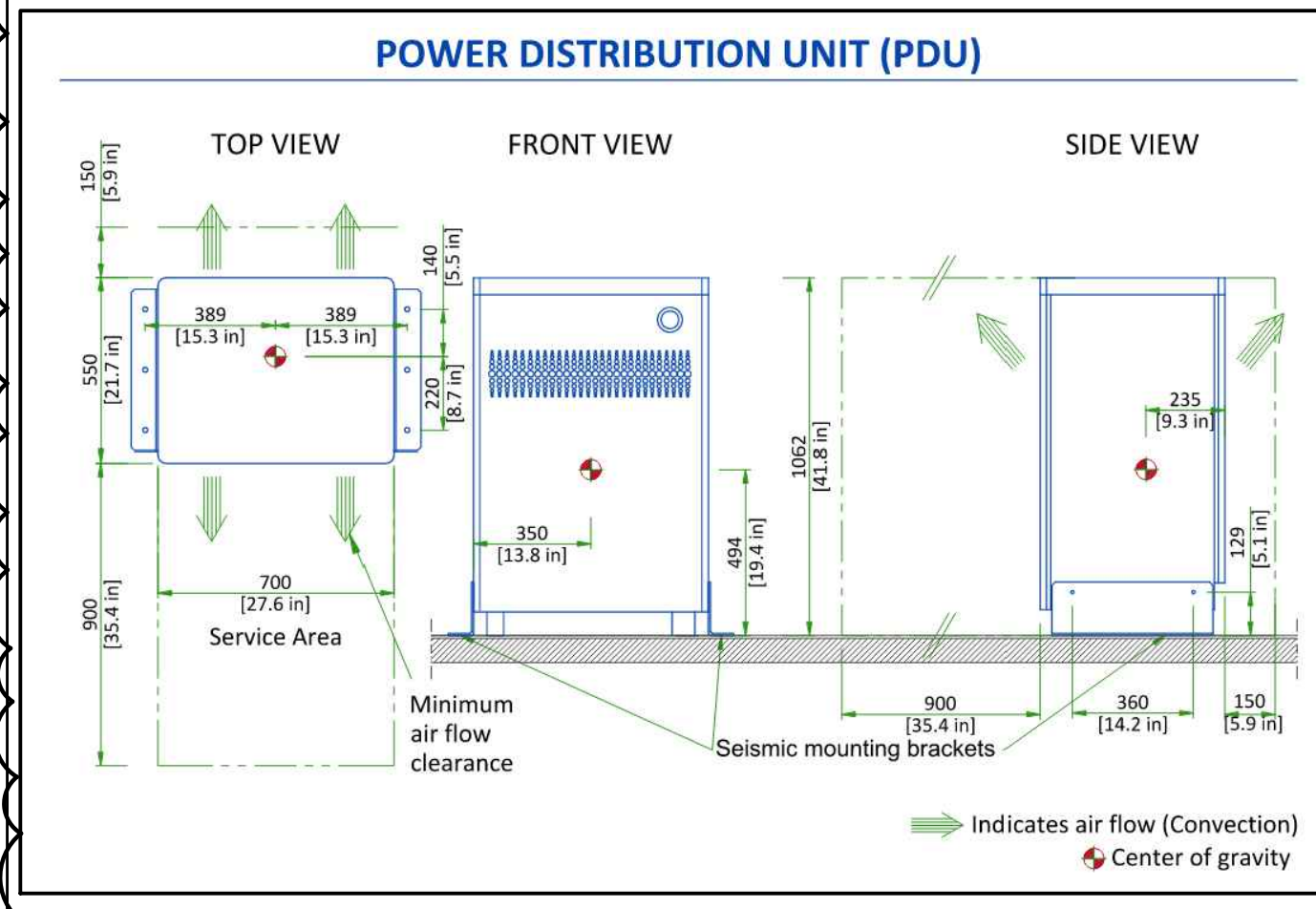


Project Manager JE	Drawn JE/JS
Project Leader JG	Checked JE
Client SickKids 555 University Ave., Toronto, ON M5G 1X8	
Project SICKKIDS - SPEC CT ROOM 555 UNIVERSITY AVENUE, MAIN FLOOR, TORONTO, ON M5G1X8	
Drawing Title POWER - NEW WORK	
Check Scale (may be photo reduced) 0 1inch 0 10mm	
Project No.	
Drawing No. EP 02 EW 01	



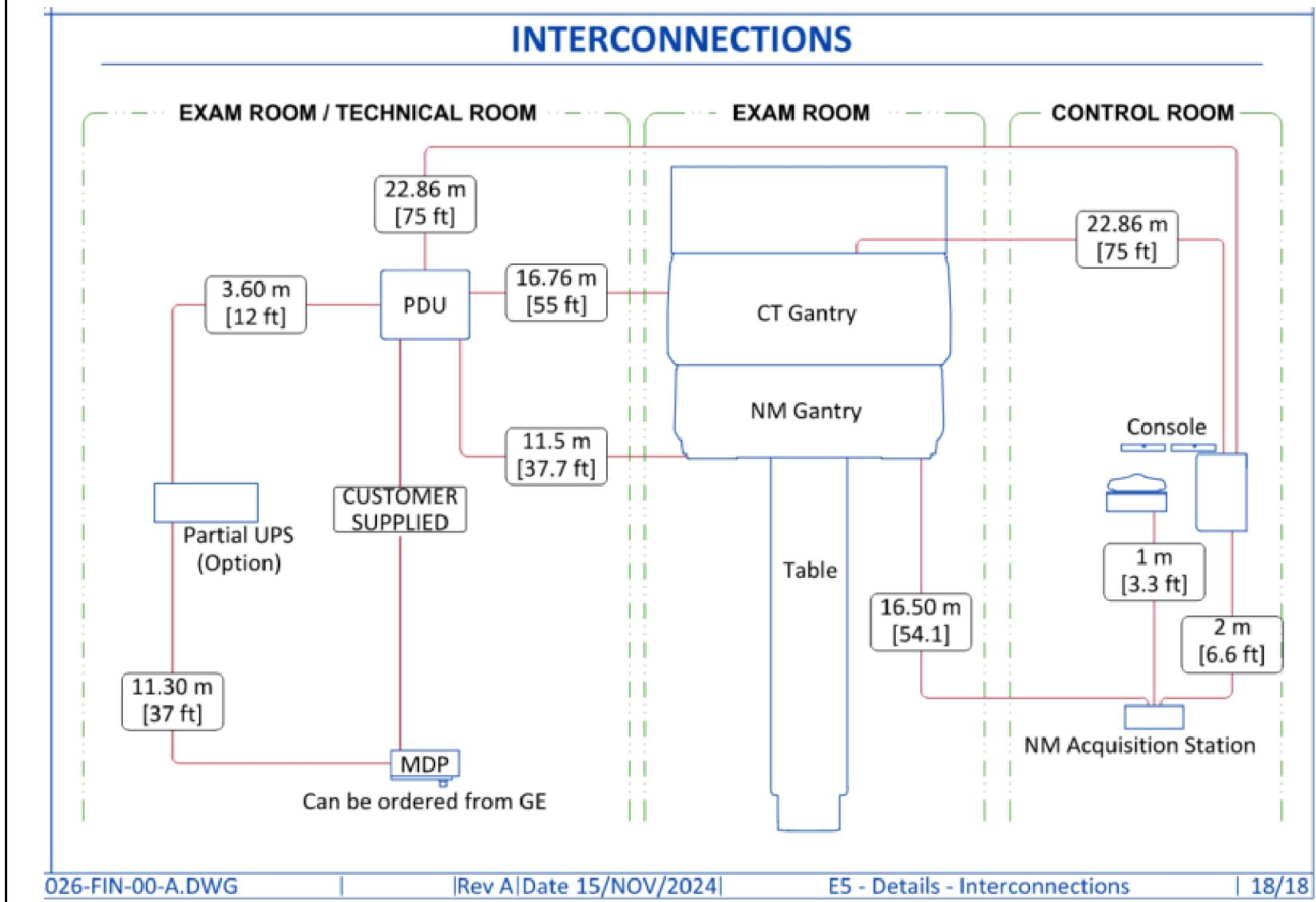
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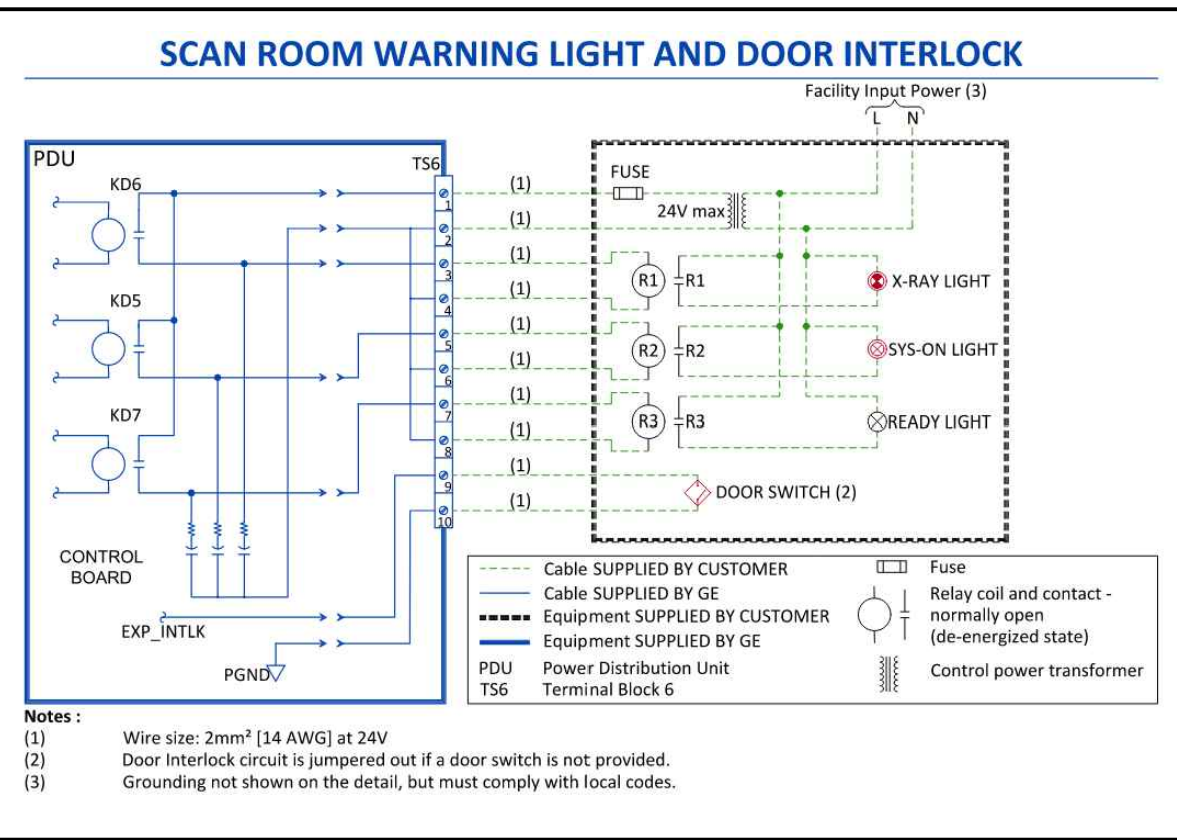
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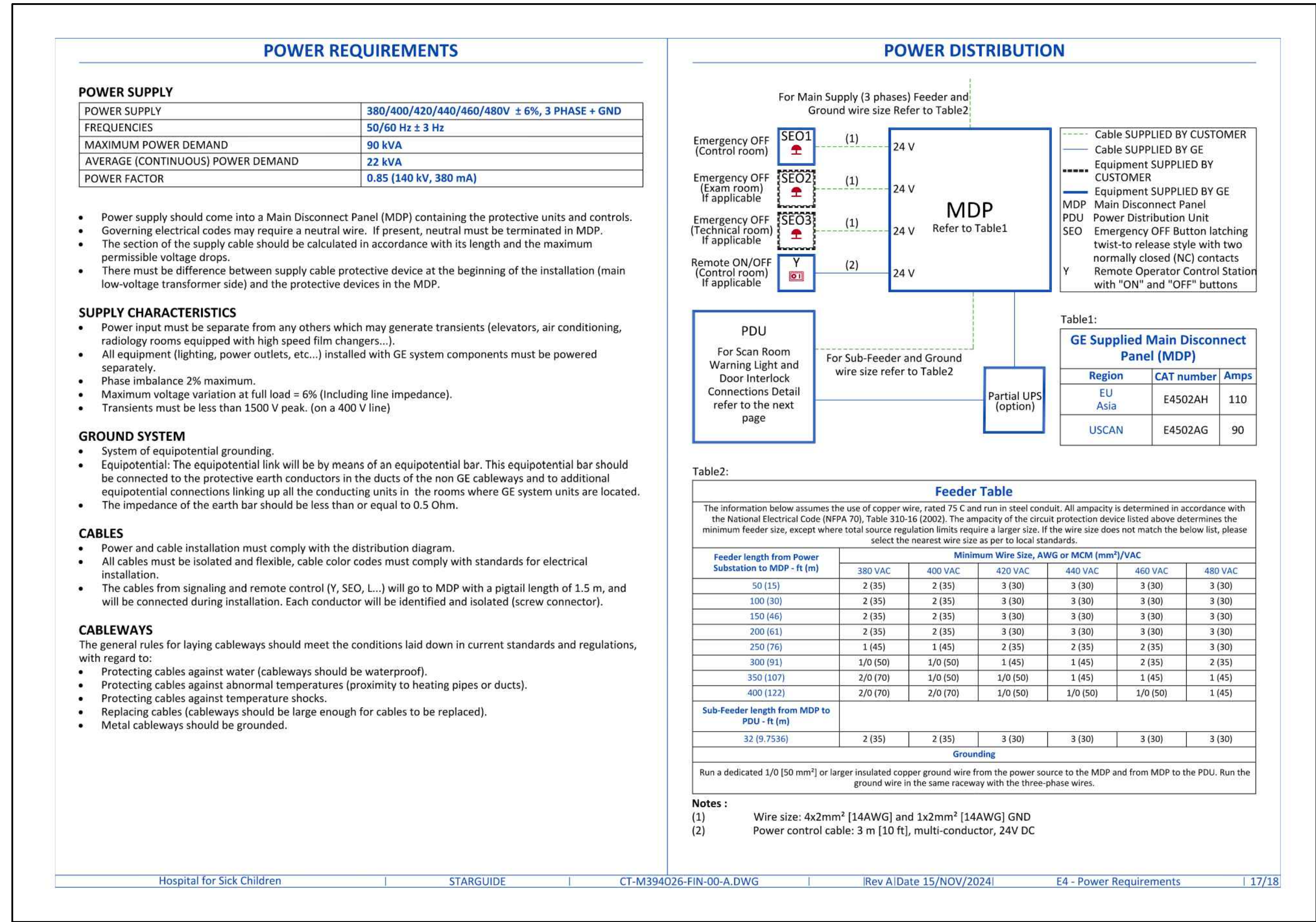
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GENERAL ELECTRICAL NOTES: UNLESS OTHERWISE NOTED ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY WIRING, BOXES AND CONDUIT, COMPLETE WITH INSTALLATION PER COORDINATION WITH MANUFACTURER'S REQUIREMENT. IN ANY INSTANCE WHERE THE DETAIL MENTIONS SUPPLIED BY CUSTOMER, ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL PER MANUFACTURER REQUIREMENTS. IN INSTANCES WHERE DETAILS MENTIONS SUPPLIED BY GE, ELECTRICAL CONTRACTOR SHALL COORDINATE AND INSTALL PER MANUFACTURER REQUIREMENTS. REFER TO EP 02 EW 01 FOR ADDITIONAL MANUFACTURER NOTES.



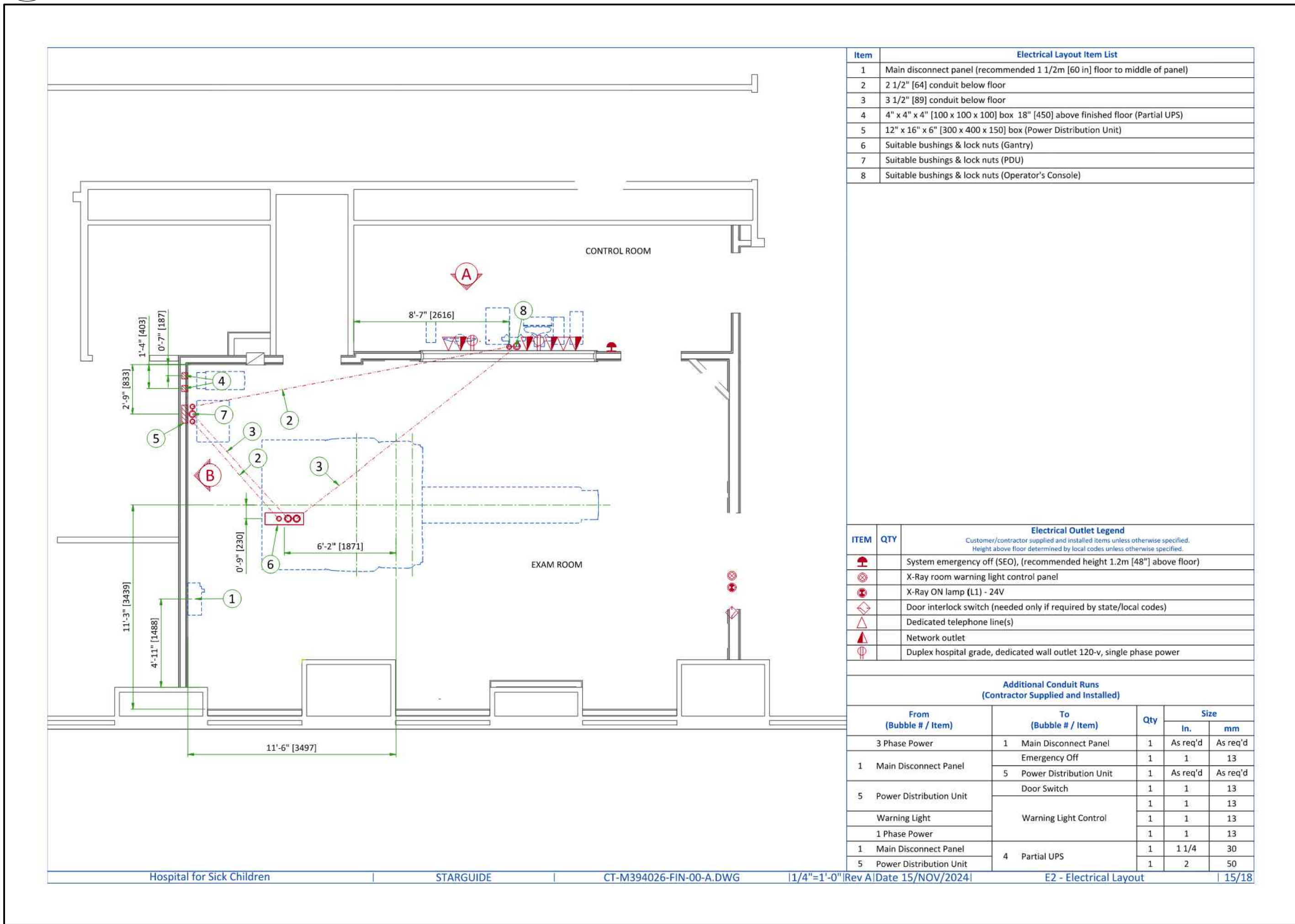
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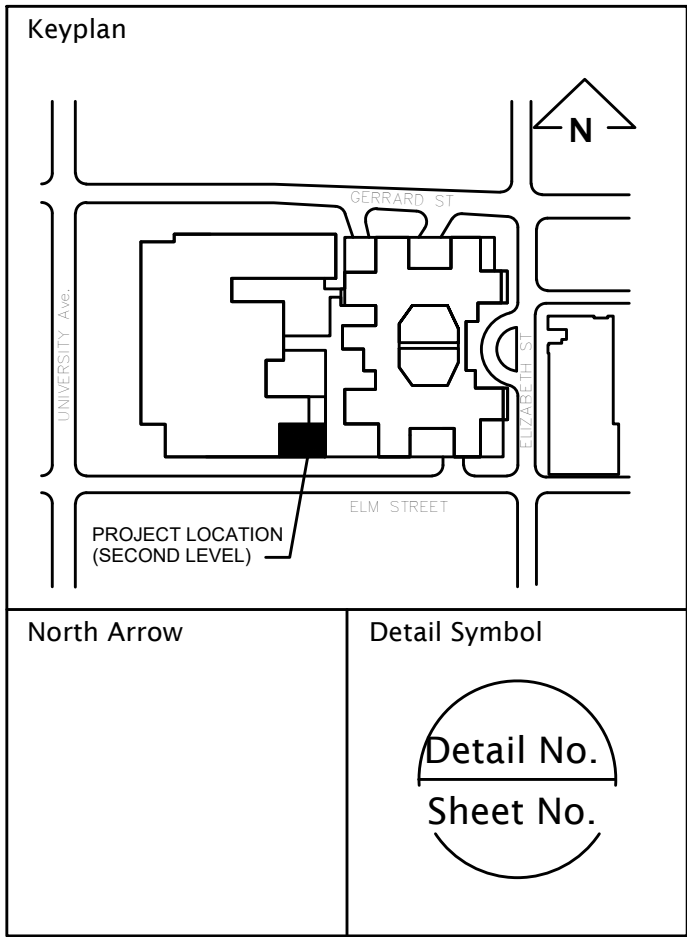
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DATE	ISSUED FOR	REV
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2025-02-21	90% CD	B
2025-06-13	COSTING	C
2025-08-28	95% CD	D
2025-10-01	TENDER - PERMIT	0
2025-12-09	ELECTRICAL ADDENDUM E3	1

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Project Manager JE	Drawn JE/JS
Project Leader JG	Checked JE
Client SickKids 555 University Ave., Toronto, ON M5G 1X8	
Project SICKKIDS - SPEC CT ROOM 555 UNIVERSITY AVENUE, MAIN FLOOR, TORONTO, ON M5G1X8	
Drawing Title ELECTRICAL DETAILS 2 OF 2	
Check Scale (may be photo reduced) 0 1 inch 0 10mm	
Project No.	
Drawing No. ED 02 EW 02	

Project Name: SickKids Nuclear Medicine Spect CT
Quasar Project #: HC-21-129

Date Issued: December 5, 2025

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Addendum #: M-3

Revision #: 0

This Addendum forms part of the Contract Specifications and Drawings, and modifies the Bidding Documents, with Amendments and Additions noted below. This Addendum shall be added to the front of the specifications as issued. Bidders shall acknowledge receipt of this Addendum in the space provided in the Bid Form and include in bid amount.

Changes to Drawings:

1. Drawing MV 01 EW 01 – LEVEL 1 PART PLANS – HVAC – DEMOLITION AND NEW WORK.

- Revisions to HVAC demolition scope and drawing notes, as indicated.



Quasar Consulting Group

Manda Bobinac

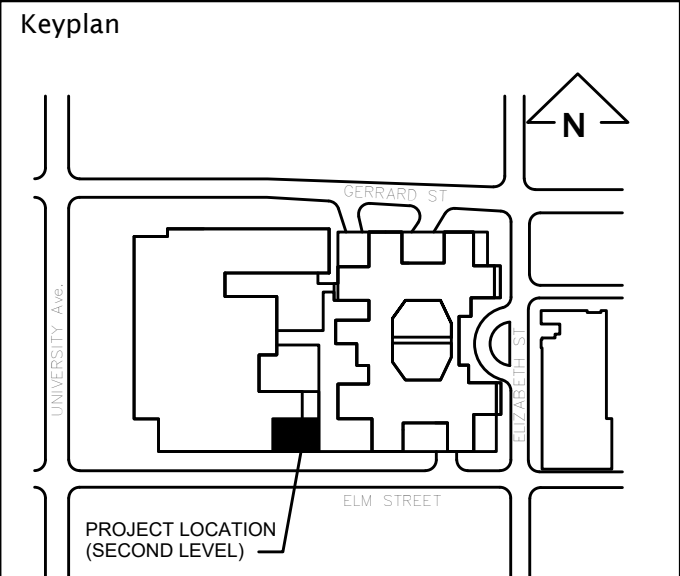
Team Lead; Mechanical Engineering

GENERAL NOTES	
1	ASBESTOS CONTAINING FIREPROOFING IS PRESENT IN THE CEILING SPACE. TYPE 2 AND TYPE 3 ASBESTOS PROCEDURES ARE TO BE FOLLOWED WHEN WORKING IN THE CEILING SPACE AND IMPACTING HVAC PIPING AND DUCTWORK. REFER TO HAZMAT REPORT IN DIVISION 2 SPECIFICATION SECTION, AS REQUIRED.
2	ALL EXISTING SERVICES SHOWN ARE APPROXIMATE AND BASED ON SITE SURVEY AND EXISTING RECORD DRAWINGS. CONTRACTOR SHALL VERIFY ALL DUCT AND PIPE SIZES ON SITE AND REPORT ANY DISCREPANCY TO THE CONSULTANT.
3	PRIOR TO DEMOLITION, MEASURE AIRFLOW AT ALL EXISTING DIFFUSERS AND GRILLES AS INDICATED IN BOLD. SUBMIT TO CONSULTANT FOR REVIEW AND RECORD. UPON COMPLETION OF CONSTRUCTION, DIFFUSERS AND GRILLES ARE TO BE REBALANCED TO AIRFLOW VALUES INDICATED IN BOLD. SUBMIT FINDINGS TO CONSULTANT FOR REVIEW AND RECORD.
4	REMOVE AND RE-INSTALL EXISTING DIFFUSERS, ASSOCIATED DUCTWORK AND ACCESSORIES TO ACCOMMODATE NEW STRUCTURAL AND MECHANICAL SERVICES, AS INDICATED IN BOLD.

DATE	ISSUED FOR	REV
2024-12-19	50% CD	A
2025-02-21	90% CD	B
2025-06-13	COSTING	C
2025-08-28	95% CD	D
2025-10-01	TENDER - PERMIT	0
2025-11-24	ADDENDUM M-1	△
2025-12-05	ADDENDUM M-3	△

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	<div>Detail No.</div> <div>Sheet No.</div>

Seal	
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Project Manager MB	Drawn AS
Project Leader	Checked PC

Client

SickKids

555 University Ave., Toronto, ON M5G 1X8

Project

SICKKIDS - SPEC CT ROOM

555 UNIVERSITY AVENUE, MAIN FLOOR,
TORONTO, ON M5G1X8

Drawing Title

LEVEL 1 PART PLANS - HVAC -
DEMOLITION

Check Scale (may be photo reduced)

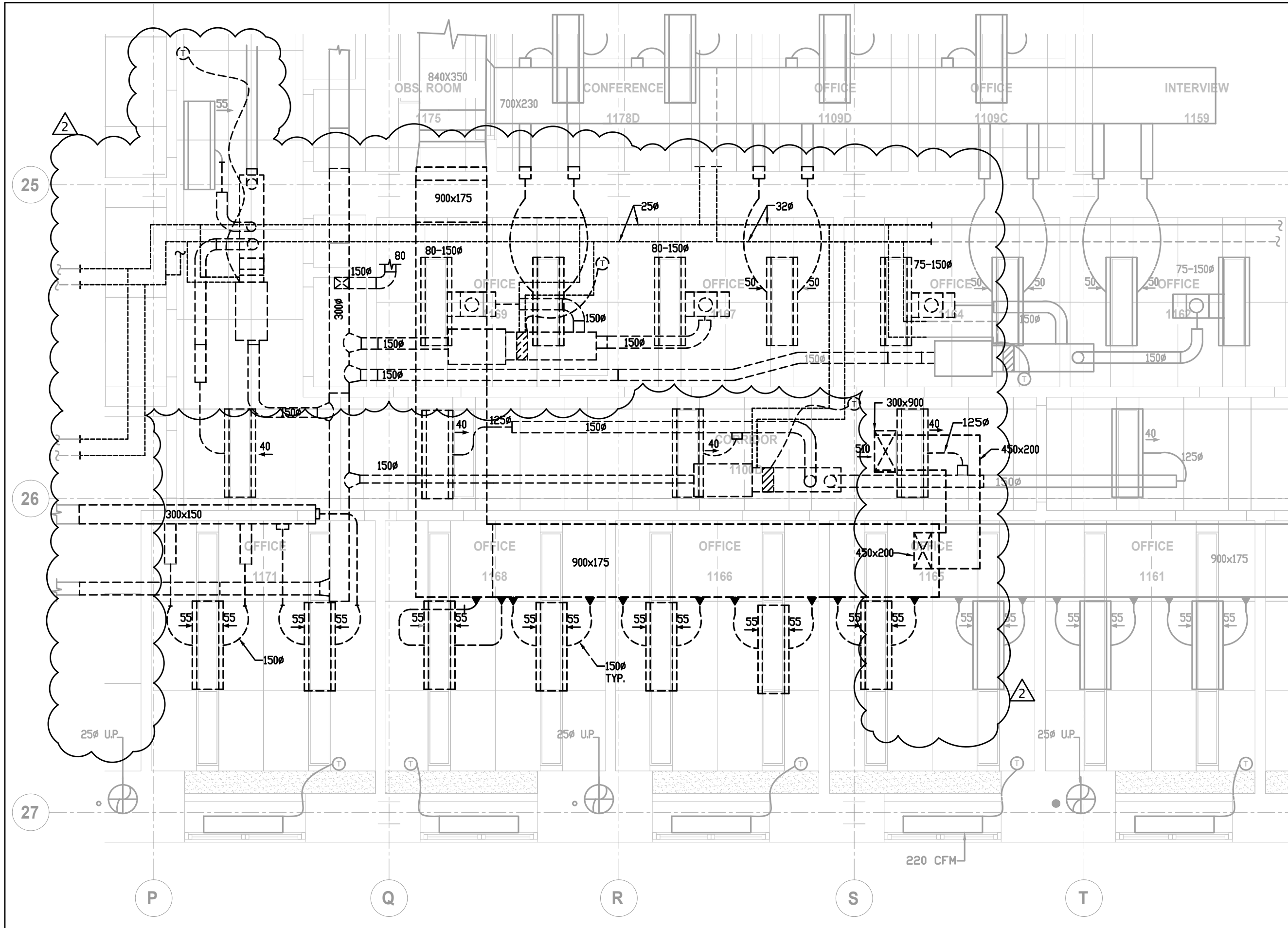
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Project No.

HC 21-129

Drawing No.

MV 01 EW 01



GENERAL NOTES

GENERAL

- WHERE CODES AND STANDARDS ARE REFERENCED IN THE GENERAL NOTES, THEY SHALL BE THE LATEST EDITIONS, UNLESS OTHERWISE NOTED OR SHOWN.
- READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH SEPARATELY BOUND SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS. WHERE DISCREPANCY IS FOUND BETWEEN STRUCTURAL DRAWINGS AND SPECIFICATIONS, COMPLY WITH THE MORE STRINGENT REQUIREMENT.
- BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON STRUCTURAL DRAWINGS AGAINST ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND EXISTING SITE CONDITIONS. REPORT INCONSISTENCIES TO CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- CHECK AND VERIFY IN THE FIELD ALL SIZES AND DIMENSIONS INVOLVING THE EXISTING OR CONSTRUCTED STRUCTURE AND COORDINATE WITH NEW CONSTRUCTION.
- VERIFY AND OBTAIN PRIOR APPROVAL OF DIMENSIONS AND LOCATIONS OF ALL OPENINGS, PIPE SLEEVES, SLOTS, TRENCHES AND ELECTRICAL FLOOR DUCTS AS REQUIRED BY OTHER TRADES.
- NO OPENINGS OTHER THAN THOSE SHOWN ON THE DRAWINGS SHALL BE MADE THROUGH SLABS, BEAMS OR BEARING WALLS, UNLESS PRIOR APPROVAL IS OBTAINED FROM THE CONSULTANT.
- DO NOT EXCEED DURING CONSTRUCTION, GRAVITY LOADS SHOWN ON PLANS, REDUCED AS NECESSARY UNTIL MATERIALS REACH DESIGN STRENGTH.
- DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE. ELEVATIONS ARE IN METERS UNLESS NOTED OTHERWISE.
- DO NOT USE THESE DRAWINGS FOR CONSTRUCTION UNLESS AN "ISSUED FOR CONSTRUCTION" REVISION IS INDICATED.
- SCALES NOTED ON DRAWINGS ARE FOR GENERAL INFORMATION ONLY. DO NOT SCALE DRAWINGS.
- TYPICAL STRUCTURAL DETAILS SHOWN IN DRAWING SERIES S10-01 SHALL GOVERN THE WORK. IF DETAILS DIFFER ON OTHER DRAWINGS, THE MOST STRINGENT GOVERNS. TYPICAL DETAILS SHOW STRUCTURAL INTENT AND MAY NOT MATCH PROJECT SPECIFICS.
- ALL MECHANICAL SYSTEMS SUSPENDED LOADS EXCEEDING 50 kg SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION UNLESS SPECIFICALLY DETAILED OR NOTED ON THE STRUCTURAL DRAWINGS.
- UNIT FLOOR AND ROOF LOADINGS GIVEN ON DRAWINGS ARE UNFACTORED. MEMBER FORCES GIVEN ON DRAWINGS ARE FACTORED.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR FIRE RATINGS AND REQUIREMENTS.
- NO LOAD RESTRICTIONS WERE ASSUMED IN THE DESIGN FOR THE PURPOSES OF MEETING SPECIFIC ULC ASSEMBLIES. CONTRACTOR SHALL VERIFY COMPLIANCE OF SELECTED ASSEMBLIES AND APPLY NECESSARY FIRE PROOFING MATERIAL TO MEET THE SPECIFIED FIRE RATING.
- REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ALL WATER PROOFING AND THERMAL INSULATION REQUIREMENTS. WHERE INFORMATION IS GIVEN BOTH IN STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR THE SAME LOCATION, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- DO NOT DISTURB EXISTING OR CONSTRUCTED FOUNDATIONS ADJACENT TO THE PROPOSED CONSTRUCTION. REVIEW DAMAGE WITH STRUCTURAL ENGINEER AND MAKE GOOD ACCORDINGLY.

CONSTRUCTION

- THE CONTRACTOR SHALL PROPOSE A FULL METHODOLOGY FOR EXECUTING THE WORK.
- THE CONTRACTOR SHALL DEMONSTRATE THE STABILITY AND SAFETY OF ALL ELEMENTS OF THE BUILDING DURING EVERY STAGE OF CONSTRUCTION.

MATERIALS

- CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS:
 - HOUSEKEEPING PAD (CT MACHINE) 30 MPa (N)
 - HOUSEKEEPING PAD (TYPICAL) 25 MPa (N)
- STRUCTURAL STEEL:
 - STRUCTURAL WIDE FLANGE AND WELDED WIDE FLANGE SHAPES (W, WWF) TO CONFORM TO CSA/CAN-G40.20/G40.21 GRADE 350W.
 - CHANNELS AND ANGLES (C,L) CSA/CAN-G40.20/G40.21 GRADE 300W.
 - ALL PLATE AND PLATE FABRICATED MEMBERS TO CONFORM TO CSA/CAN-G40.20/G40.21 GRADE 300W.
 - HOLLOW STRUCTURAL SECTIONS (HSS) TO CONFORM TO CSA/CAN-G40.20/G40.21 CLASS C OR H GRADE 350W UNLESS NOTED OTHERWISE.
- REINFORCEMENT:
 - CONFORM TO CSA G30 SERIES, $f_y \approx 400$ MPa FOR ALL CONCRETE REINFORCEMENT EXCEPT $f_y \approx 440$ MPa FOR WELDED WIRE FABRIC. PROVIDE WELDED WIRE FABRIC IN FLAT SHEETS ONLY. ALL REINFORCEMENT IS TO BE 'BLACK' EXCEPT WHERE THE SUFFIX 'C' IS USED TO DESIGNATE EPOXY COATED REINFORCEMENT.
- ANCHOR RODS:
 - CONFORM TO ASTM A36 / ASTM F1554 GRADE 36, WELDABLE UNLESS OTHERWISE NOTED OR SHOWN.
- STRUCTURAL BOLTS, NUTS AND WASHERS:
 - CONFORM TO ASTM F3125 GRADE A325M.
- NON-SHRINK GROUT:
 - COMPRESSIVE STRENGTH 35 MPa (@ 28 DAYS)
 - MISCELLANEOUS USE

STRUCTURAL STEEL

- PROVIDE MINIMUM BEARING OF 200mm FOR ALL STEEL BEAMS BEARING ON CONCRETE AND A MINIMUM OF 100mm ON STRUCTURAL STEEL, UNLESS NOTED ON PLAN.
- CENTER BEARING PLATES UNDER BEAMS UNLESS OTHERWISE NOTED OR SHOWN.
- BEARING PLATE DIMENSION GIVEN FIRST INDICATES SIDE PARALLEL TO BEAM WEB.
- NO STRUCTURAL STEEL SHALL BE CUT IN THE FIELD UNLESS REVIEWED AND APPROVED BY THE CONSULTANT.
- ALL WELDS EXPOSED TO VIEW SHALL BE GROUND SMOOTH EXCEPT AS NOTED IN THE SPECIFICATIONS.
- REFER TO TYPICAL DETAIL TD-1 FOR ABBREVIATIONS USED FOR THE CONNECTION FORCES GIVEN ON THE DRAWINGS. FORCES INDICATED ARE FACTORED LOADS UNLESS OTHERWISE NOTED OR SHOWN. SUBSCRIPTS D, L, W AND Q REFER TO UNFACTORED DEAD, LIVE, WIND AND EARTHQUAKE LOADS, RESPECTIVELY.
- SPLICES SHALL BE DESIGNED TO DEVELOP THE FULL CAPACITY OF THE MEMBER AT THE POINT OF THE SPLICE. MEMBERS SHALL NOT BE SPLICED AT POINTS OF MAXIMUM STRESS. NO SPLICES SHALL BE MADE UNLESS SHOWN ON THE DRAWINGS OR REVIEWED AND APPROVED BY THE CONSULTANT.
- SHAPE AND SIZE OF GUSSET PLATES TO CLEAR ARCHITECTURAL FINISHES AND MECHANICAL DUCTS AND PIPES AND ELEVATOR SHAFTS.
- PROVIDE ALL ANCHOR BOLTS, CAST-IN PLATES WITH STUDS AND DRILLED ANCHORS REQUIRED TO CONNECT STRUCTURAL STEEL TO CAST-IN-PLACE CONCRETE.
- MAINTAIN TEMPORARY BRACING AND SHORING UNTIL COMPLETION OF ENTIRE STRUCTURE INCLUDING ROOF DECKS AND OTHER ELEMENTS WHICH ARE PART OF THE LATERAL LOAD RESISTING SYSTEM.
- BOLT HOLES IN STEEL SHALL BE 3 mm (1/8") LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED. PROVIDE NOT LESS THAN 2-M20 A325 BOLTS IN ANY BOLTED CONNECTION.
- ALL WELDS SHALL CONFORM TO CSA W59-13 AND ALL WELDERS SHALL BE CERTIFIED IN CONFORMANCE WITH CSA W47.1-09.
- WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE LENGTH OF WELD IS NOT SHOWN IT SHALL BE FULL LENGTH OF JOINT. ALL BUTT WELDS SHALL BE FULL PENETRATION UNLESS NOTED OTHERWISE.
- ALL STEEL EXPOSED TO THE EXTERIOR ENVIRONMENT SHALL BE HOT-DIP GALVANIZED UNLESS OTHERWISE NOTED. FIRE RATED STRUCTURAL STEEL MEMBERS SHALL BE FIREPROOFED IN ACCORDANCE WITH REQUIREMENTS SHOWN ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.
- FIRE RATED STRUCTURAL STEEL MEMBERS SHALL BE FIREPROOFED IN ACCORDANCE WITH THE REQUIREMENTS SHOWN ON ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

DOWELS INSTALLATION IN EXISTING CONCRETE

- COMPLY WITH MANUFACTURER'S GUIDELINES FOR DOWEL INSTALLATION.
- INSTALLER SHALL BE TRAINED BY DOWEL MANUFACTURER.
- CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ALL ADHESIVE DOWELS AND EXPANSION ANCHORS. INSPECT AND PULL TEST EXPANSION ANCHORS AND ADHESIVE (EPOXY) DOWEL ACCORDING TO MANUFACTURER'S WRITTEN RECOMMENDATIONS.

CONCRETE REINFORCEMENT

- UNLESS OTHERWISE NOTED, ALL DOWELS SHALL HAVE A MINIMUM EMBEDMENT EQUIVALENT TO THE STRAIGHT TENSION EMBEDMENT LENGTH CORRESPONDING TO THE SIZE OF BAR. DOWELS FROM WALLS TO SLABS SHALL HAVE A MINIMUM EMBEDMENT OF 600mm INTO WALLS AND SLABS UNLESS OTHERWISE NOTED OR SHOWN.
- PROVIDE DOWELS SIMILAR IN NUMBER, SIZE AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN ABOVE UNLESS OTHERWISE NOTED OR SHOWN.
- TACK WELDING OF REINFORCEMENT IS NOT PERMITTED. WELDED SPLICES IN REINFORCING BARS WILL ONLY BE PERMITTED EXPLICITLY SHOWN ON THE STRUCTURAL DRAWINGS OR IF WRITTEN APPROVAL IS GIVEN BY THE CONSULTANT.
- ALL REINFORCEMENT SHALL BE SECURELY HELD IN PROPER POSITION WHILE POURING CONCRETE. CHAIRS, TIES, SPACERS, ADDITIONAL BARS AND STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO FURNISH SUPPORT FOR ALL REINFORCEMENT.
- MINIMUM LAP OF WELDED WIRE FABRIC SHALL BE 150mm (6") OR ONE FULL MESH, WHICHEVER IS GREATER.
- COORDINATE AND INSTALL ALL REQUIRED EMBEDDED ITEMS, INSERTS, SLEEVES, POCKETS, ETC. AS REQUIRED PRIOR TO PLACEMENT OF CONCRETE.
- ALL CONCRETE SURFACES INDICATED AS 'AEC' ON STRUCTURAL OR ARCHITECTURAL DRAWINGS SHALL COMPLY WITH REQUIREMENTS FOR ARCHITECTURALL EXPOSED CONCRETE. SEE SPECIFICATIONS.

TESTING AND INSPECTION

- THE CONTRACTOR SHALL ARRANGE FOR THE FOLLOWING ITEMS TO BE INSPECTED AND/OR TESTED BY AN INDEPENDENT THIRD-PARTY INSPECTION/TESTING AGENCY ACCEPTABLE TO THE OWNER AND THE CONSULTANT. COPIES OF ALL TEST REPORTS SHALL BE FORWARDED TO THE OWNER AND CONSULTANT ON THE SAME DAYS TESTS ARE MADE. THE ITEMS TO BE TESTED SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING.

CONCRETE:
CONCRETE TO BE TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1 AND 23.2, INCLUDING THE REQUIREMENTS FOR AIR, SLUMP AND AGE PRIOR TO BEING USED. CONTRACTOR TO MAINTAIN RECORDS OF POUR DATES, TESTING PERFORMED, CLASS OF CONCRETE USED AND TEST RESULTS FOR ALL ITEMS POURED. RESULTS OF CYLINDER STRENGTH TESTING TO BE SENT TO OWNER AND CONSULTANT. ALL MIX DESIGNS TO BE REVIEWED AND APPROVED BY TESTING AGENCY.

STRUCTURAL STEEL:
PERFORM VISUAL INSPECTION OF ALL WELDS, TORQUE TESTING OF BOLTED CONNECTIONS AND CHECK ON BEARING, PLUMBNESS, ALIGNMENT AND PAINTING. BASIS OF INSPECTION SHALL BE FINAL REVIEWED SHOP DRAWINGS. PERFORM NON-DESTRUCTIVE TESTING OF WELDS WHERE RESULTS OF VISUAL INSPECTION ARE NOT ACCEPTABLE OR INCONCLUSIVE.

ALTERATION AND CONNECTIONS TO EXISTING STRUCTURE

- INFORMATION SHOWN ON THIS DRAWING HAS BEEN TAKEN FROM DRAWING PREPARED BY GOVAN KAMINKER LANGLEYSIDE MELICK DEVONSHIRE WILSON ARCHITECTS DATED JUNE 1968.
- CHECK ALL DRAWINGS AGAINST ACTUAL CONDITIONS ON SITE PRIOR TO FABRICATING ANY STRUCTURAL STEEL. REPORT DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
- CONTRACTOR'S SCHEDULE OF WORK SHALL BE COORDINATED WITH ALL SUBTRADE, THE CONSULTANT AND OWNER.
- PROPOSED SEQUENCE OF WORK TO BE SUBMITTED TO THE CONSULTANT FOR PREVIEW PRIOR TO START OF WORK.
- PRIOR TO FABRICATION OF STRUCTURAL STEEL, OPEN UP ALL AREAS TO ALLOW THE INSTALLATION OF THE NEW STRUCTURAL WORK, AS WELL AS THE CONNECTION OF NEW WORK TO THE EXISTING WORK. TAKE ANY AND ALL NECESSARY FIELD MEASUREMENTS. MODIFY INSTALLATION METHODS AND METHODS OF CONNECTING TO SUIT SITE CONDITIONS FOUND AND TO THE APPROVAL OF THE CONSULTANT. CARRY OUT LOCAL REPAIRS TO THE EXISTING WORK AS NECESSARY AND AS DIRECTED BY THE CONSULTANT.
- SHORE EXISTING WORK AS REQUIRED UNTIL ALL NEW WORK HAS BEEN COMPLETED AND REVIEWED BY THE CONSULTANT.
- CUTTING OPENINGS AND HOLES IN EXISTING STRUCTURES:

PRIOR TO CUTTING AND CORING ANY OPENINGS IN THE EXISTING BUILDING PROVIDE THE CONSULTANT WITH A SLEEVING DRAWING INDICATING THE SIZE AND LOCATION OF PROPOSED OPENINGS RELATIVE TO A BUILDING GRID LINES. EXISTING OPENINGS IN THE VICINITY OF THE NEW OPENING MUST ALL BE SHOWN. CONTRACTOR TO FOLLOW AND SATISFY ALL REQUIREMENTS OF GTAA SURFACE PENETRATION GUIDELINES.

UNLESS SPECIFICALLY NOTED OTHERWISE, LOCATE EXISTING REINFORCEMENT AND ANY EMBEDDED SERVICES BY A POSITIVE MEANS (I.E. X-RAYING, LOCAL CHIPPING OF SLAB - WHERE APPROVED BY THE CONSULTANT, COVER METER AND THE LIKE).

AFTER ALL REINFORCEMENT AND SERVICES HAVE BEEN LOCATED, NOTIFY CONSULTANT WHO WILL REVIEW AND APPROVE OF THE PROPOSED OPENING HOLE LOCATION PRIOR TO CUTTING/DRILLING. MAKE ANY NECESSARY ADJUSTMENTS TO THE HOLE LOCATION AS DIRECTED BY THE CONSULTANT.

CORE DRILL NEW HOLES FOR PIPES TO A DIAMETER NOT LARGER THAN THE OUTSIDE PIPE DIAMETER PLUS 25 mm (1"). DO NOT CUT EXISTING REINFORCEMENT OF SERVICES WITHOUT PRIOR APPROVAL OF THE CONSULTANT.

WHERE OPENINGS ARE TO BE CUT, PRE-DRILL THE CORNERS USING A 100 mm (4") DIAMETER CORE DRILL OR DRILL A SERIES OF HOLES TO PREVENT OVERCUTTING AT THE CORNERS.

IN ANY AREAS WHERE THE CONSULTANT PERMITS THE CUTTING OF EXISTING REINFORCEMENT, THE CONTRACTOR IS TO EXAMINE THE CORE/OPENING AFTER DRILLING/CUTTING TO DETERMINE THE SIZE, COVER AND ORIENTATION OF ANY REINFORCEMENT THAT WAS CUT. THE CONTRACTOR IS TO MARK THIS INFORMATION ON THE SLEEVING DRAWING AND FORWARD A COPY OF IT TO THE CONSULTANT FOR HIS RECORDS.

SHORE FLOORS AS REQUIRED TO SUPPORT CRANES, HOISTS AND OTHER CONSTRUCTION EQUIPMENT.

CONFORM TO ALL APPLICABLE CODES AND BY LAWS CONCERNING SAFETY, NOISE AND VIBRATIONS.

- DO NOT CUT CONCRETE REINFORCEMENT UNLESS REVIEWED AND APPROVED BY THE CONSULTANT.
- MODIFY THE LAYOUT OF NEW THROUGH BOLTS, EXPANSION ANCHORS AND OTHER ANCHORING DEVICES REQUIRED TO AVOID EXISTING CONCRETE REINFORCEMENT.
- UNLESS NOTED OTHERWISE, ALL DOWELS ARE TO BE EPOXIED INTO THE EXISTING CONCRETE STRUCTURE USING HILTI HY INJECTION ADHESIVE SYSTEM OR APPROVED EQUIVALENT.

EXISTING CONSTRUCTION

- CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS.
- NOTED DIMENSIONS AND CONDITIONS OF EXISTING BUILDINGS AND OTHER STRUCTURES ARE SHOWN BASED ON THE ORIGINAL DRAWINGS FIELD MEASURE AND VERIFY EXISTING DIMENSIONS PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO ARCHITECT/ENGINEER IN WRITING.
- VERIFY CONDITIONS COVERING OF AFFECTING THE WORK. OBTAIN AND VERIFY ALL DIMENSIONS AND ELEVATIONS TO ENSURE THE PROPER STRENGTH, FIT AND LOCATION OF THE WORK. REPORT TO THE ARCHITECT/ENGINEER ANY AND ALL CONDITIONS WHICH MAY INTERFERE WITH OR OTHERWISE AFFECT OR PREVENT THE PROPER EXECUTION AND COMPLETION OF THE NEW WORK. FULL RESOLVE ALL DISCREPANCIES PRIOR TO COMMENCING WORK.
- EXISTING CONSTRUCTION NOT UNDERGOING ALTERATION IS TO REMAIN UNDISTURBED. WHERE SUCH CONSTRUCTION IS DISTURBED AS A RESULT OF THE OPERATIONS OF THIS CONTRACT, REPAIR OR REPLACE AS REQUIRED AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.
- VERIFY EXISTENCE, LOCATION AND ELEVATION OF EXISTING UTILITIES, SEWERS, DRAINS, ETC. IN DEMOLITION AREAS BEFORE PROCEEDING WITH THE WORK. ALL DISCREPANCIES SHALL BE DOCUMENTED AND REPORTED TO THE ARCHITECT/ENGINEER.

- SHOULD UNCHARTED OR INCORRECTLY CHARTED PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT THE OWNER'S REPRESENTATIVE FOR DIRECTION.
- PROVIDE FIRE WATCH DURING THE FIELD CUTTING AND WELDING OPERATIONS, MEETING THE OWNER'S REQUIREMENTS.
- PROVIDE TEMPORARY PROTECTION OF EXISTING EQUIPMENT DURING EXECUTION OF THE WORK SATISFYING THE OWNER'S REQUIREMENTS.
- COORDINATE WORK WITH THE OWNER'S PERSONNEL TO AVOID ANY INTERFERENCE IN THEIR OPERATIONS.

DESIGN NOTES

GENERAL

- THE STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE OF CANADA, 2020 EDITION AND THE USER'S GUIDE - ONTARIO BUILDING CODE 2024".
 - LOCATION FOR CLIMATIC AND SEISMIC DATA: TORONTO, ON
 - IMPORTANCE CATEGORY: NORMAL
- ALL STRUCTURAL CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA A23.3-24, "DESIGN OF CONCRETE STRUCTURES".
- ALL STRUCTURAL STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA S16-24, "DESIGN OF STEEL STRUCTURES".
- DEAD AND LIVE LOADS:
THE LOADS FOR THE PROPOSED EQUIPMENT ARE SHOWN ON THE LEVEL 2 FRAMING PLAN.
- SEISMIC LOADS ON NON-STRUCTURAL COMPONENT AND EQUIPMENT:
ALL STRUCTURAL COMPONENTS ARE DESIGN BASED ON CLAUSE 4.1.8.18 "PARTS AND PORTIONS" ACCORDING TO NBC2020.
PROPOSED WORKS DO NOT IMPACT THE BASE BUILDING STRUCTURE IN ANY SIGNIFICANT WAY AND AS SUCH, SEISMIC ANALYSIS FOR THE BASE BUILDING STRUCTURE HAS NOT BEEN COMPLETED AS PART OF THIS PROJECT SCOPE.

DATE	ISSUED FOR	REV
2024-05-29	50% CD	A
2025-08-28	95% CD	B
2025-10-01	TENDER - PERMIT	0
2025-12-10	ADDENDUM 10	1

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This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Keyplan

North Arrow

Detail Symbol

Seal

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Project Leader M.Cohen	Checked F. JAHANGIR
Client SickKids 555 University Ave., Toronto, ON M5G 1X8	
Project THE HOSPITAL FOR SICK CHILDREN Toronto, ON, Canada	

Drawing Title

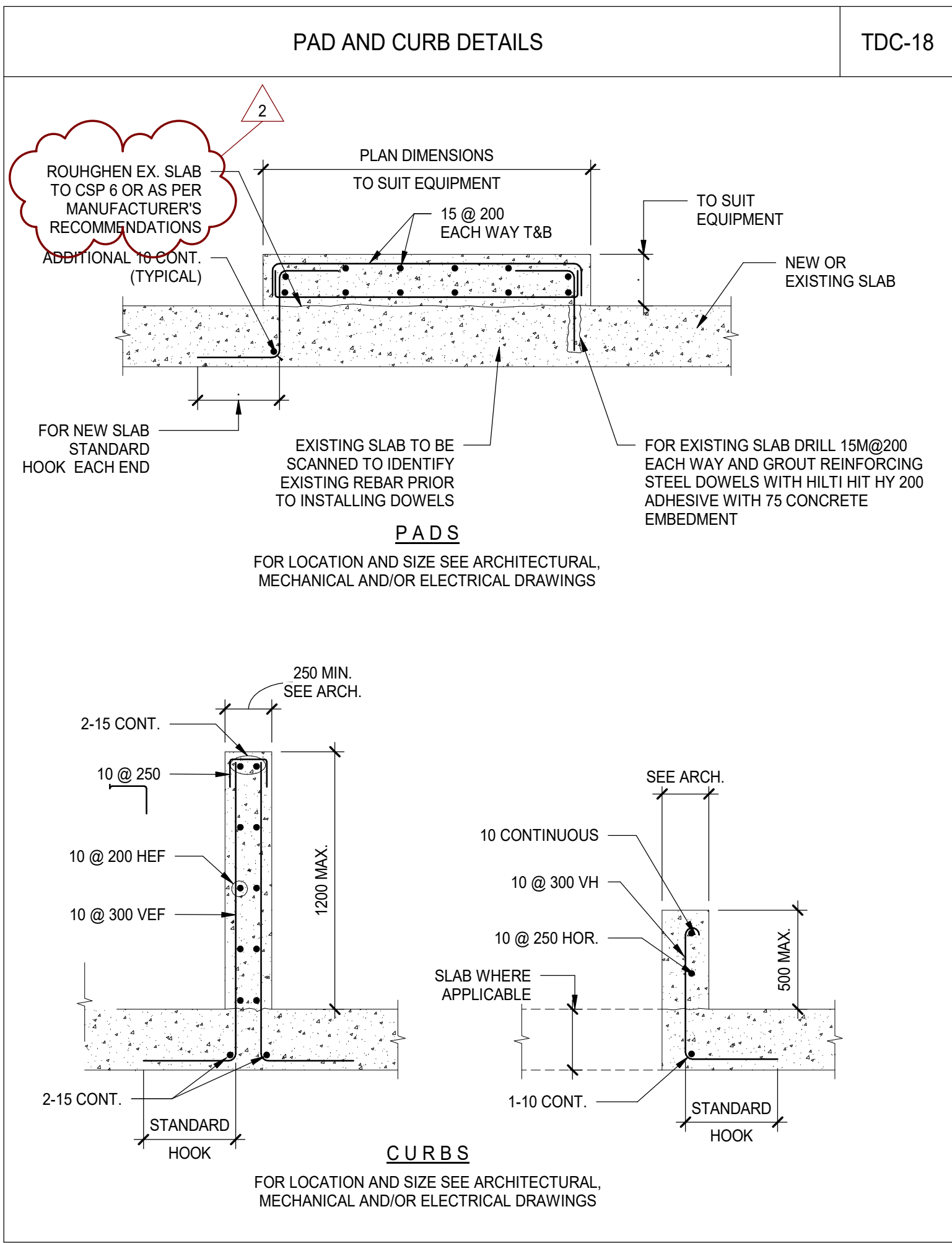
GENERAL NOTES

Check Scale (may be photo reduced)
0 1inch 0 10mm

Project No.
ONBL21-0252

Drawing No.
S01-01

STRUCTURAL ABBREVIATIONS					TD-1
A ADJ ADD'L AEC AESS A/ AFB ALT APPROX AR ARCH	UNFACTORED AXIAL LOAD ADJUSTABLE ADDITIONAL ARCHITECTUALLY EXPOSED CONCRETE ARCHITECTURALLY EXPOSED STRUCTURAL STEEL FACTORED AXIAL LOAD ASPHALT IMPREGNATED FIBREBOARD ALTERNATE APPROXIMATELY ANCHOR ROD ARCHITECTURAL OR ARCHITECT	(H), HI HDG HEE HEF HH HIC HIF HK HOF H, HORIZ HP HPT HSC HSS HT	HIGH HOT DIP GALVANIZED HOOK EACH END HORIZONTAL EACH FACE HOOK-HOOK (HOOK EACH END) HORIZONTAL IN CENTER HORIZONTAL INSIDE FACE HOOK HORIZONTAL OUTSIDE FACE HORIZONTAL H PILE HIGH POINT HORIZONTAL SLOTTED CONNECTION HOLLOW STRUCTURAL SECTION HEIGHT	S SAFRM SDF SECT SER SIM SL SLS SOG SP SPEC S-P-F STD STRUCT STL STIFF STIFFER SQ SS ST, STR STRUP SWT SYM	STANDARD SECTION SPRAY-APPLIED FIRE RESISTIVE MATERIAL STEP DOWN FOOTING SECTION STRUCTURAL ENGINEER OF RECORD SIMILAR SLAB SERVICEABILITY LIMIT STATE SLAB ON GRADE SPANDREL, SPRUCE, SETTING OUT POINT SPECIFICATION SPRUCE PINE FIR STANDARD STRUCTURAL STEEL STIFFENER SQUARE STAINLESS STEEL STRAIGHT STIRRUP SELF WEIGHT SYMMETRICAL
B, BOT B/ BAL BB BC BCH BET, BW BEW BLDG BLK BLKG BLL BM BMB BOF BPL BRDG BRG BSMT BUL	BOTTOM BOTTOM OF BALANCE BACK TO BACK BOT OF CAISSON ELEV BOTTOM CHORD BETWEEN BOTTOM EACH WAY BUILDING BLOCK BLOCKING BOTTOM LOWER LAYER BEAM BENDING MOMENT BAR BOTTOM OF FOOTING ELEVATION BEARING/BASE PLATE BRIDGING BEARING BASEMENT BOTTOM UPPER LAYER	ID IF INT JST(S) JT k kN kPa (L), LO L L, 2L Ld LE LG LL LLV LLW LP LSH LSV LW LWC	INSIDE DIAMETER INSIDE FACE INTERIOR JOISTS JOINT KILO KILONEWTON KILOPASCAL LOW SINGLE ANGLE DOUBLE ANGLES TENSION DEVELOPMENT LENGTH LEFT END LONG LENGTH LIVE LOAD LONG LEG VERTICAL LONG LEG HORIZONTAL LOW POINT LONG SIDE HORIZONTAL LONG SIDE VERTICAL LIGHT WEIGHT LIGHT WEIGHT CONCRETE	T TOP T&B TC TD TEMP TEW TF T&G THK TJ TLE TLL T/O TOS TRE T/STL TSA TSB TUL TYP	THICKNESS UNFACTORED TENSION TOP TOP AND BOTTOM TOP OF CAISSON ELEVATION TENSION DEVELOPMENT LENGTH TEMPORARY, TEMPERATURE TOP EACH WAY FACTORED TENSION TONGUE AND GROOVE THICK TIE JOIST TOP LEFT END TOP LOWER LAYER TOP OF TOP OF SLAB TOP RIGHT END TOP OF STEEL TENSION SPLICE CLASS A TENSION SPLICE CLASS B TOP UPPER LAYER TYPICAL
C C C/C C/W CA CAM CANT CB CDL CF CIP CI CJ CLR C, CL CLJ CMU COMP COL CONC CONN CONST CONT	CHANNEL UNFACTORED COMPRESSION CENTRE TO CENTRE COMPLETE WITH COLUMN ABOVE CAMBER CANTILEVER COLUMN BELOW COMPRESSION DEVELOPMENT LENGTH CONCRETE FIREPROOFED CAST-IN-PLACE FACTORED COMPRESSION CONSTRUCTION JOINT CLEAR CENTRE LINE CONTROL JOINT CONCRETE MASONRY UNIT COMPOSITE COLUMN CONCRETE CONNECTION CONSTRUCTION CONTINUOUS	m m ² , sq. m MATL MAX MC MCS MECH MEZZ MF MFR MID MISC MIN ML mm mm ² , sq. mm MPa MBS	METRE SQUARE METRE UNFACTORED MOMENT MATERIAL MAXIMUM MOMENT CONNECTION MECHANICAL COMPRESSION SPLICE MECHANICAL MEZZANINE FACTORED MOMENT MOMENT FRAME MANUFACTURER MIDDLE MISCELLANEOUS MINIMUM MIDDLE LAYER MILLIMETRE SQUARE MILLIMETRE MEGAPASCAL MECHANICAL TENSION SPLICE	USF U/S UN UON UL ULS UPT ULC	UNDERSIDE OF FOOTING UNDERSIDE UNLESS NOTED UNLESS OTHERWISE NOTED UPPER LAYER ULTIMATE LIMIT STATE UPTURNED UNDERWRITERS LABORATORIES OF CANADA
DCA DEMO DEG DET, DTL D FIR DIA DIM DIAG DL DO, * DP DWG DWL DN	DRILLED CONCRETE ANCHOR DEMOLITION DEGREE DETAIL DIP DIAMETER DIMENSION DIAGONAL DEAD LOAD DITTO DEEP DRAWING DOWEL DOWN	mm mm ² , sq. mm MPa MBS NBC, NBCC NCB NF NIC NO NOM NS NTS NW NWC	NATIONAL BUILDING CODE OF CANADA NO COLUMN BELOW NEAR FACE NOT IN CONTRACT NUMBER NOMINAL NON-SHRINK NOT TO SCALE NORMAL WEIGHT NORMAL WEIGHT CONCRETE	V VERT VBF VEF VI VOF VIC VIF VSC	UNFACTORED SHEAR VERTICAL VERTICAL BRACED FRAME VERTICAL EACH FACE FACTORED SHEAR VERTICAL OUTSIDE FACE VERTICAL IN CENTRE VERTICAL INSIDE FACE, VERIFY IN FIELD VERTICALLY SLOTTED CONNECTION
EA EC ECC EE EF EJ, EXP JT EL, ELEV ELEC EMBED ENG EOA EOD EOS ES EQ EW EX, EXIST EXT	EACH EPOXY COATED ECCENTRICITY EACH END EACH FACE EXPANSION JOINT ELEVATION ELECTRICAL EMBEDMENT ENGINEER EDGE OF ANGLE EDGE OF DECK EDGE OF SLAB EACH SIDE EQUAL EACH WAY EXISTING EXTERIOR	P P/C, PC, PRCST PERP PF PG PL PRLL PROJ P/T PT PVC	UNFACTORED POINT LOAD PRECAST PERPENDICULAR FACTORED POINT LOAD PLATE GIRDER PLATE PARALLEL PROJECTION POST TENSIONED POINT POLYVINYL CHLORIDE	ZRP Ø	ZINC RICH PAINT DIAMETER
f _c FD FF F/F FP FS	COMPRESSIVE STRENGTH OF CONC FLOOR DRAIN FAR FACE FACE TO FACE FIREPROOF(ING) FAR SIDE	R, RAD RA C RD RE REF REIN REINFR REQ'D REV	RADIUS ROOF ANCHOR REINFORCED CONCRETE ROOF DRAIN RIGHT END REFERENCE REINFORCEMENT, REINFORCE REMAINDER REQUIRED REVISION		
FFE FFL FIN FLR FTG FMC FND fy	FINISHED FLOOR ELEVATION FINISHED FLOOR LEVEL FINISHED FLOOR FOOTING FULL MOMENT CONNECTION FOUNDATION YIELD STRENGTH				
GALV GA GB GL GEN GRD, GR	GALVANIZED GAUGE GRADE BEAM GRIDLINE GENERAL GROUND, GRADE				



REINFORCING STEEL BAR AND STANDARD HOOK DIMENSIONS FOR DEFORMED BARS WITH $F_y = 400 \text{ MPa}$							TDC-39	
BAR SIZE	MASS kg/m	DIA. d	AREA mm ²	STANDARD HOOK			STIRRUP AND TIE HOOKS (90°)	
				BEND D	A		D	A
					90°	180°		
10M	0.785	11.3	100	70	180	150	40	100
15M	1.57	16.0	200	100	260	180	60	140
20M	2.355	19.5	300	120	340	220	-	-
25M	3.925	25.2	500	150	420	280	-	-
30M	5.495	29.9	700	250	560	400	-	-
35M	7.85	35.7	1000	300	660	480	-	-
45M	11.775	43.7	1500	450	900	-	-	-
55M	19.625	56.4	2500	600	1140	-	-	-

STANDARD 90° HOOK

STANDARD 180° HOOK

TENSION DEVELOPMENT LENGTH AND TENSION LAP SPLICES (Fy = 400 MPa)													TDC-36
CONCRETE	25 MPa		30 MPa		35 MPa		40 MPa		45 MPa		50 MPa		CONCRETE
	SPLICE	CLASS A, Ld	CLASS B	CLASS A, Ld	CLASS B	CLASS A, Ld	CLASS B	CLASS A, Ld	CLASS B	CLASS A, Ld	CLASS B	CLASS A, Ld	
BAR	TABLE 1: UNCOATED, OTHER THAN TOP BARS												BAR
10	300	380	300	350	300	320	300	300	300	280	300	300	10
15	440	570	400	520	370	480	350	330	330	420	310	400	15
20	580	750	530	690	490	640	460	430	430	560	410	530	20
25	900	1170	830	1070	760	990	720	670	670	880	640	830	25
30	1080	1410	990	1290	920	1190	860	810	810	1050	770	1000	30
35	1260	1640	1150	1500	1070	1390	1000	940	940	1220	890	1160	35
BAR	TABLE 2: UNCOATED, TOP BARS												BAR
10	380	490	350	450	320	420	300	390	280	370	300	350	10
15	570	730	520	670	480	620	450	580	420	550	400	520	15
20	750	980	690	890	640	830	600	770	560	730	530	690	20
25	1170	1530	1070	1390	990	1290	930	1210	890	1140	830	1080	25
30	1410	1830	1290	1670	1190	1550	1110	1450	1050	1360	1000	1290	30
35	1640	2130	1500	1950	1390	1800	1300	1690	1220	1590	1160	1510	35
BAR	TABLE 3: EPOXY-COATED BARS, OTHER THAN TOP BARS												BAR
10	440	570	400	520	370	480	350	450	330	420	310	400	10
15	650	850	600	770	550	720	520	670	490	630	460	600	15
20	870	1130	790	1030	730	950	690	890	650	840	610	800	20
25	1350	1760	1240	1610	1140	1490	1070	1390	1010	1310	960	1240	25
30	1620	2110	1480	1930	1370	1780	1280	1670	1210	1570	1150	1490	30
35	1890	2460	1730	2250	1600	2090	1500	1950	1410	1840	1340	1740	35
BAR	TABLE 4: EPOXY-COATED TOP BARS												BAR
10	490	640	450	590	420	540	390	510	370	480	350	450	10
15	740	960	670	880	620	810	580	760	550	720	520	680	15
20	980	1280	900	1170	830	1080	780	1010	730	950	700	900	20
25	1530	1990	1400	1820	1300	1690	1210	1580	1090	1490	1100	1410	25
30	1840	2390	1680	2180	1560	2020	1460	1890	1370	1780	1300	1690	30
35	2150	2790	1960	2550	1810	2360	1700	2210	1600	2080	1520	1970	35

NOTES:

- USE FOLLOWING TENSION LAP SPLICE LENGTHS UNLESS NOTED OTHERWISE ON DRAWINGS.
- TENSION DEVELOPMENT LENGTHS, L_d, DENOTED AS TENSION LAP SPLICE CLASS A.
- FOR COLUMNS, USE COLUMN TENSION SPLICE TYPICAL DETAIL.
- TOP BARS ARE BARS WITH M_cRE THAN 300 OF CONCRETE CAST BELOW SPLICE.
- CLEAR COVER NOT LESS THAN d , CLEAR SPACING NOT LESS THAN 2d .
- FOR STRUCTURAL LOW-DENSITY CONCRETE, INCREASE SPLICE LENGTHS BY 30%.
- FOR STRUCTURAL SEMI-LOW-DENSITY CONCRETE, INCREASE SPLICE LENGTHS BY 20%.

DATE	ISSUED FOR	REV
2025-08-28	95% CD	A
2025-10-01	TENDER - PERMIT	0
2025-11-24	ADDENDUM 07	1
2025-12-10	ADDENDUM 10	2

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Keyplan

North Arrow

Detail Symbol

Detail No. Sheet No.

Seal

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NORR Architects & Engineers Limited

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Toronto, ON, Canada M4W 3R8
norr.com

Project Manager
J. Dignazio

Drawn
Author

Project Leader
M.Cohen

Checked
Checker

Client

SickKids
555 University Ave., Toronto, ON M5G 1X8

Project
THE HOSPITAL FOR SICK CHILDREN
Toronto, ON, Canada

Drawing Title

TYPICAL DETAILS

Check Scale (may be photo reduced)
0 1inch 0 10mm

Project No.
ONBL21-0252

Drawing No.
S02-01

12/10/2025 12:28:06 PM
Autodesk Docs/Sick Kids - Spec CT Room/NORR_ONBL21-0252_STRC_SickKids_Spec-CT Room_R201.rvt

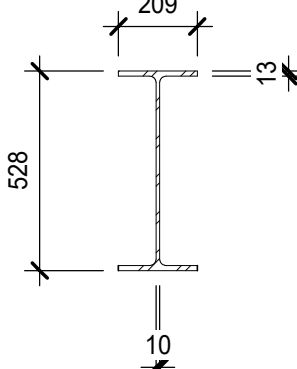
NOTES:

1. INFORMATION SHOWN ON THIS DRAWING HAS BEEN TAKEN FROM DRAWING PREPARED BY GOV'N KAMNIKER LANGLEYSIDE MELICK DEVONSHIRE WILSON ARCHITECTS DATED JUNE 1968. EXISTING LOADS ARE AS FOLLOWS:

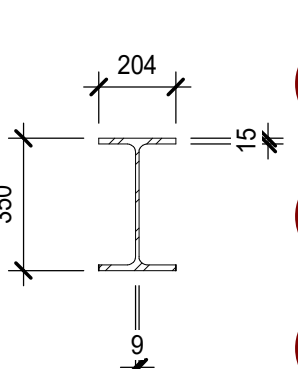
LIVE LOAD 4.8 kPa
SDL LOAD 1.17 kPa (FINISHES INDICATED ON PLAN)

2. TOP OF STRUCTURAL SLAB IS 152mm BELOW FINISHED SECOND FLOOR ELEVATION.

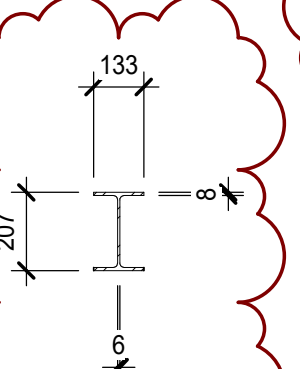
3. IT IS ASSUMED THAT THE EXISTING STRUCTURE IS IN GOOD CONDITION AND PER THE EXISTING DRAWINGS. THE FOLLOWING BEAM SIZES WERE OBTAINED FROM THE EXISTING DRAWINGS AND USED FOR THE ANALYSIS AND DESIGN. CONTRACTOR TO VERIFY BEFORE COMMENCING WORK AND NOTIFY ENGINEER IF DIFFERENT.



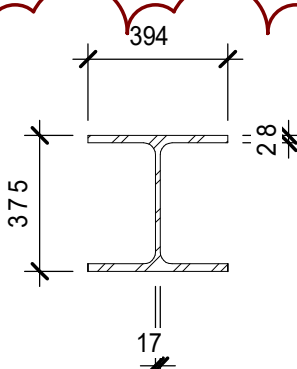
EX 20 1/4 x 8 1/4 WF 55
DETAIL 1



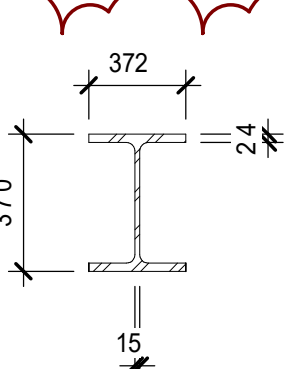
EX 13 1/4 x 8 WF 48
DETAIL 2



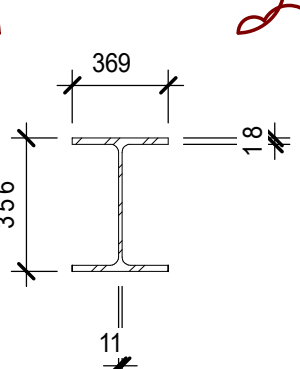
EX 8 x 5 1/2 WF 17
DETAIL 3



EX 14 x 14 WWC 145
DETAIL 4



EX 14 x 14 WWC 128
DETAIL 5



EX 14 x 14 WWC 88
DETAIL 6

4. USE A CONCRETE MIX WITH THE SPECIFIED COMPRESSIVE STRENGTH, SLUMP, AND AGGREGATE SIZE AS PER THE PROJECT SPECIFICATIONS.

5. CURE CONCRETE AS PER MANUFACTURER RECOMMENDATIONS.

6. BEFORE DRILLING HOLES IN REINFORCED CONCRETE SLAB TO INSTALL DOWELS OR ANCHORS, SCAN THE DESIGNATED AREA FOR REBARS AND STEEL STUDS. AVOID CUTTING ANY REBAR AND ANY STEEL STUDS WITHIN SLAB, AND ADJUST THE SPACING OF THE DOWELS OR ANCHORS AS NEEDED.

7. BEFORE CORING INTO CONCRETE SLAB FOR DRAINS, ETC, SCAN THE SLAB SURFACE TO IDENTIFY ALL EMBEDMENTS, INCLUDING REBARS, STEEL STUDS, CONDUITS AND ADJUST LOCATION OF CORE TO MISS SUCH EMBEDMENTS. NOTIFY EOR FOR REVIEW PRIOR TO CORING.

8. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION OF CORES INTO SLAB.

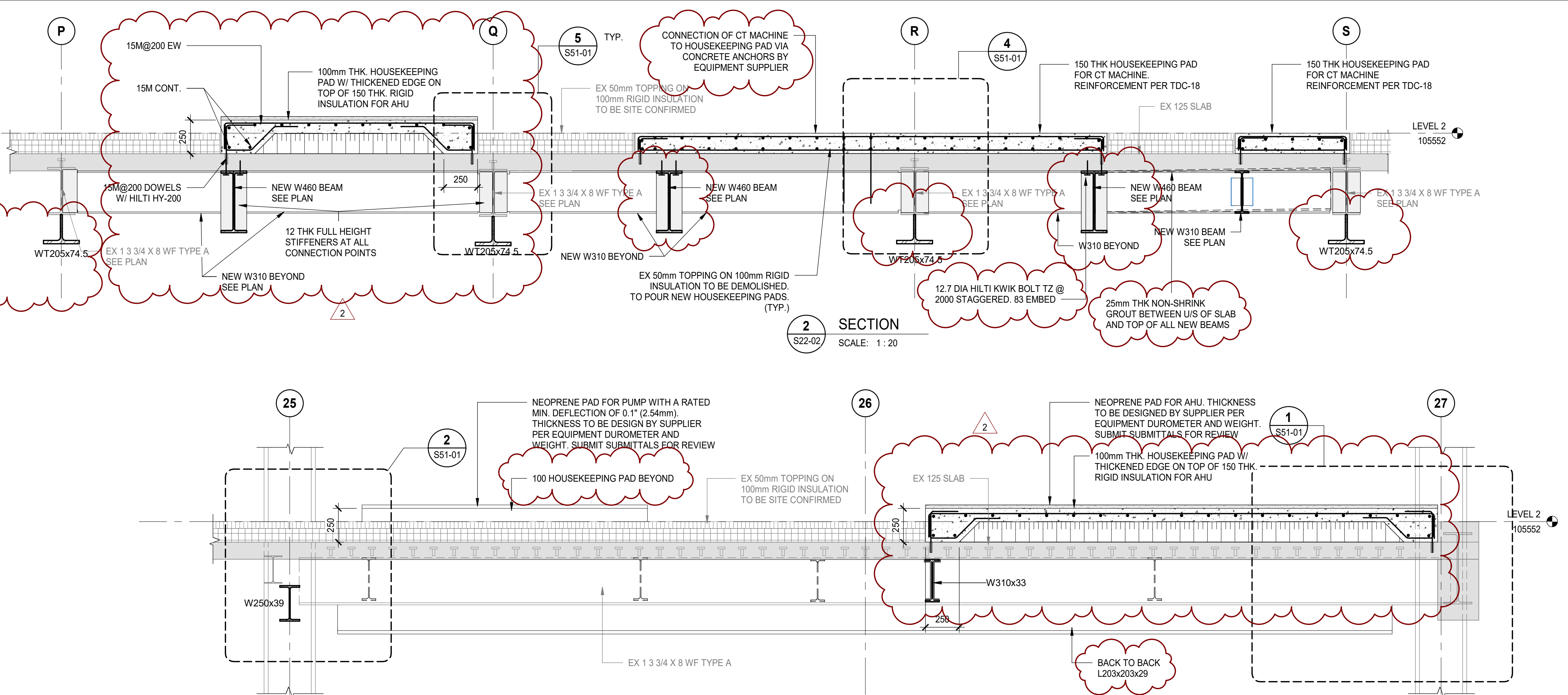
9. CONNECT ALL STEEL ELEMENTS FOR FORCES SHOWN ON PLAN OR CONNECTION DETAILS PROVIDED. WHERE FORCES ARE NOT SHOWN, CONNECTION NEEDS TO BE DESIGNED TO MEET SECTION CAPACITIES.

10. STRUCTURAL REINFORCEMENT HAS BEEN DESIGNED FOR THE NEW EQUIPMENT LOADS SHOWN ON PLAN AND IN ACCORDANCE WITH THE VIBRATION PERFORMANCE REQUIREMENTS OUTLINED IN THE THORNTON TOMASETTI REPORT DATED NOVEMBER 17, 2025. ONCE THE SPECIFIED REINFORCEMENT IS PROPERLY INSTALLED, THE STRUCTURE WILL HAVE SUFFICIENT CAPACITY TO SAFELY SUPPORT THE ADDITIONAL EQUIPMENT LOAD.

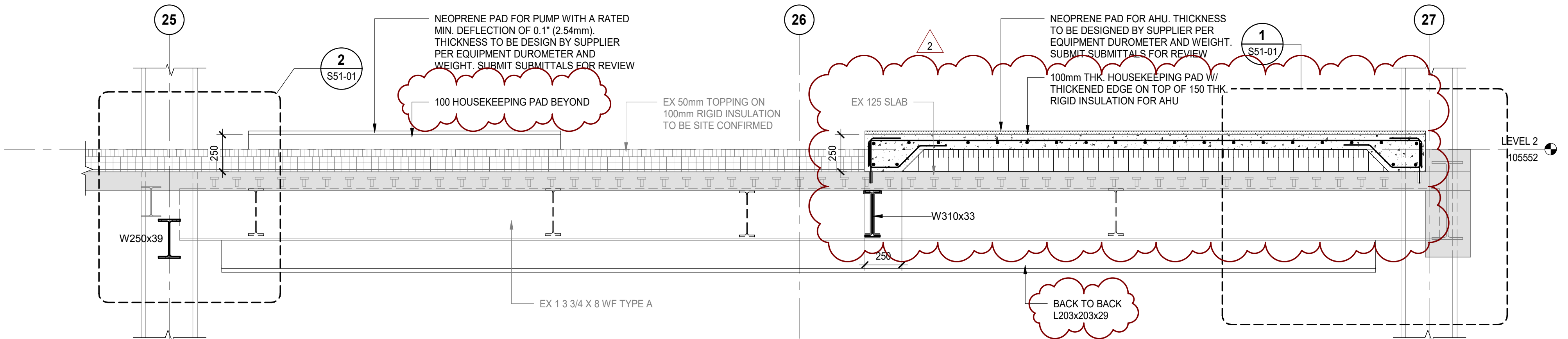
11. CLEAN THE EXISTING CONCRETE SLAB THOROUGHLY TO REMOVE DIRT, OIL, GREASE, LATANCE AND ANY LOOSE OR DETERIORATED MATERIAL. ROUGHEN THE SURFACE TO PROVIDE ADEQUATE BONDING USE MECHANICAL METHODS SUCH AS SANDBLASTING, SCARIFYING OR SHOT BLASTING FOR SURFACE.

12. APPLY AN APPROPRIATE BONDING AGENT SUCH AS SIKADUR 32 OR EQUIVALENT TO THE PREPARED SURFACE TO ENSURE PROPER ADHESION BETWEEN THE EXISTING SLAB AND THE NEW HOUSEKEEPING PADS.

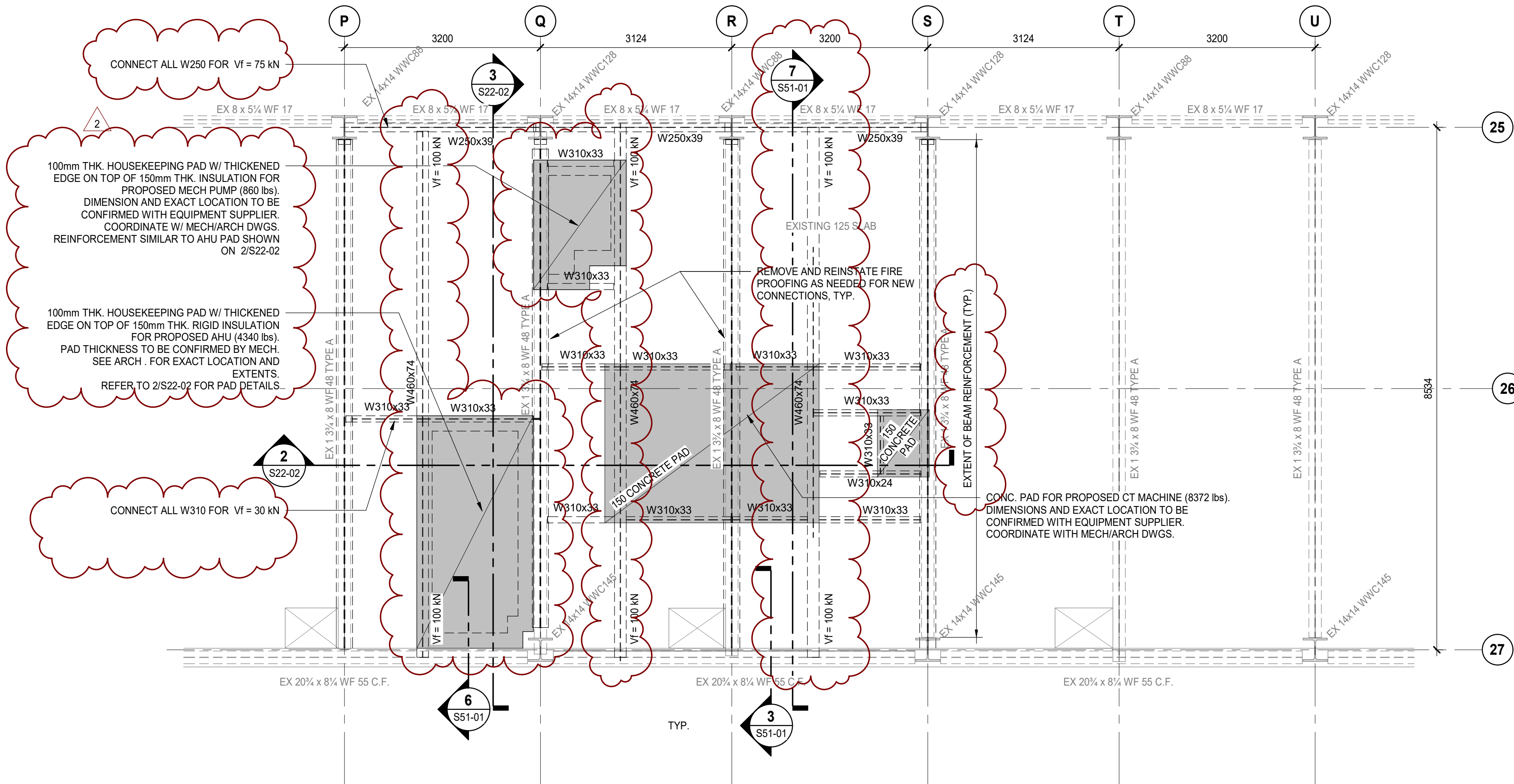
13. USE LIGHTWEIGHT CONCRETE (18.5 kN/m3 MAX.) FOR ALL HOUSEKEEPING PADS.



SECTION 2
SCALE: 1:20



SECTION 3
SCALE: 1:20



1 LEVEL 2 PARTIAL FRAMING PLAN
SCALE: 1:50

DATE	ISSUED FOR	REV
2024-05-29	50% CD	A
2025-08-28	95% CD	B
2025-10-01	TENDER - PERMIT	0
2025-11-24	ADDENDUM 07	1
2025-12-10	ADDENDUM 10	2

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This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Keyplan

North Arrow

Detail Symbol

Detail No.
Sheet No.

Seal

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R. ENDAYA

Project Leader
M. Cohen

Checked
F. JAHANGIR

Client

SickKids
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Project

THE HOSPITAL FOR SICK CHILDREN
Toronto, ON, Canada

Drawing Title

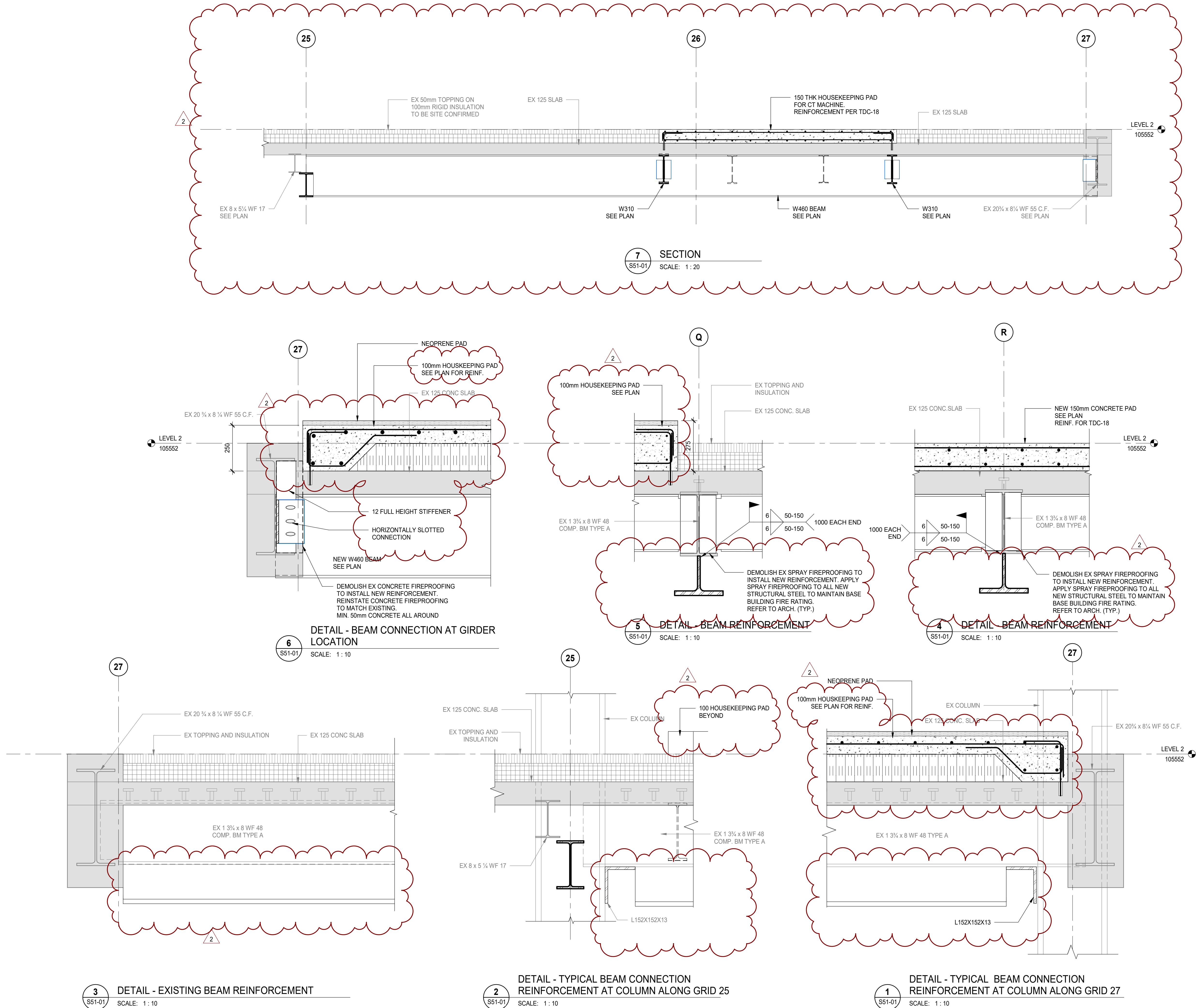
LEVEL 2 ENLARGED FLOOR FRAMING PLAN

Check Scale (may be photo reduced)

0 1 inch 0 10mm

Project No.
ONBL21-0252

Drawing No.
S22-02



DATE	ISSUED FOR	REV
2025-08-28	95% CD	A
2025-10-01	TENDER - PERMIT	0
2025-11-24	ADDENDUM 07	1
2025-12-10	ADDENDUM 10	2

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Keyplan

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Detail Symbol

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Project

THE HOSPITAL FOR SICK CHILDREN
Toronto, ON, Canada

Drawing Title

DETAILS

Check Scale (may be photo reduced)

0 1inch 0 10mm

Project No.
ONBL21-0252

Drawing No.
S51-01