

OTU VESTIBULE NEW ELEVATOR RENEWAL



61 CHARLES STREET
OSHAWA, ONTARIO L1H 4X8
ONTARIO TECH UNIVERSITY

LIST OF DRAWINGS

ARCHITECTURAL

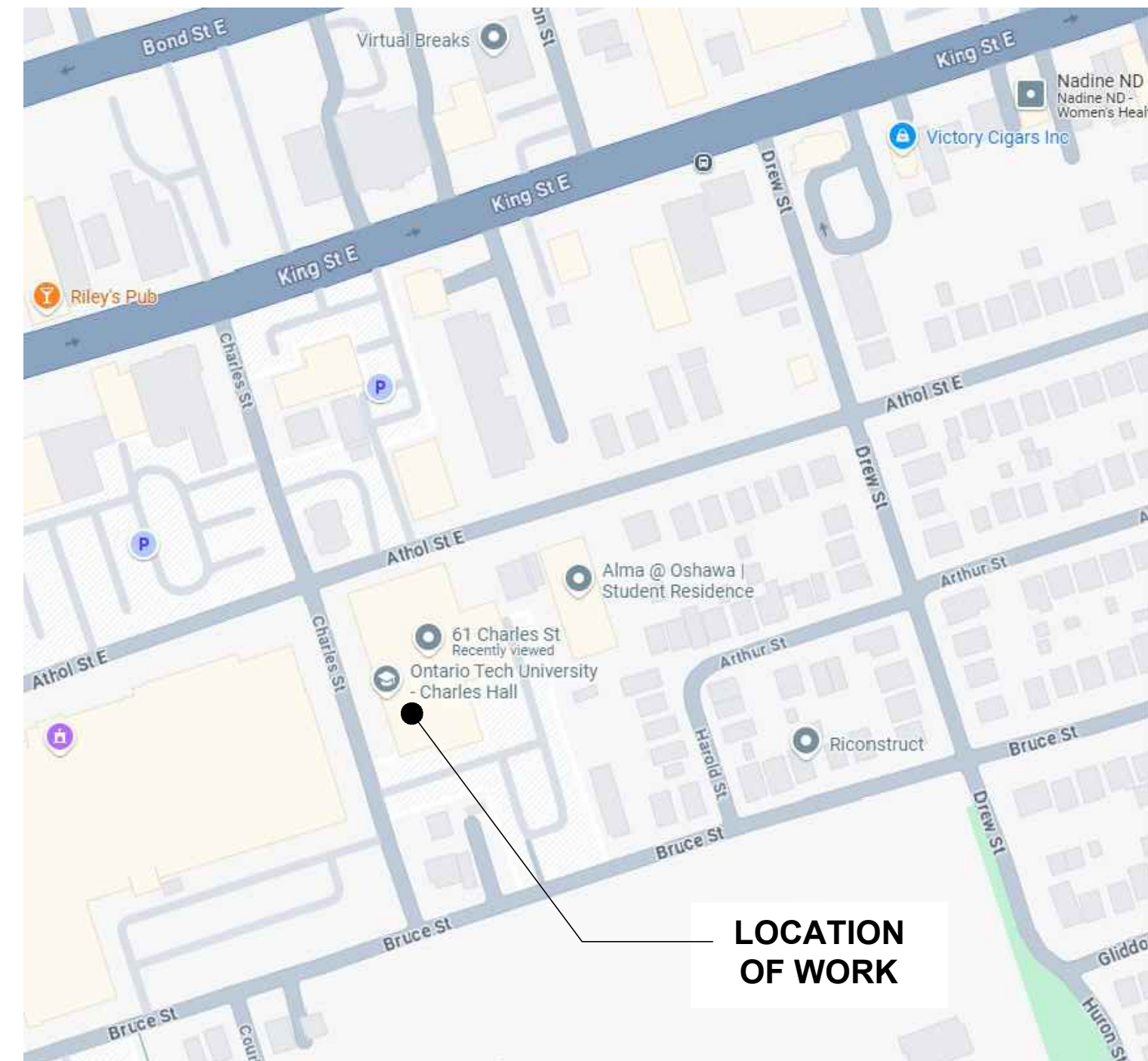
- A000 DRAWING LIST, LOCATION MAP & SITE PLAN
- A201 PART FLOOR PLAN EXISTING DECK - TEMP. RAMP ACCESS
- A202 PART DEMOLITION AND PART FIRST FLOOR PLAN
- A501 STAIR SECTION DETAILS, ROOM AND FINISH SCHEDULE
- A502 ELEVATOR SECTIONS
- A901 SPECIFICATIONS

STRUCTURAL

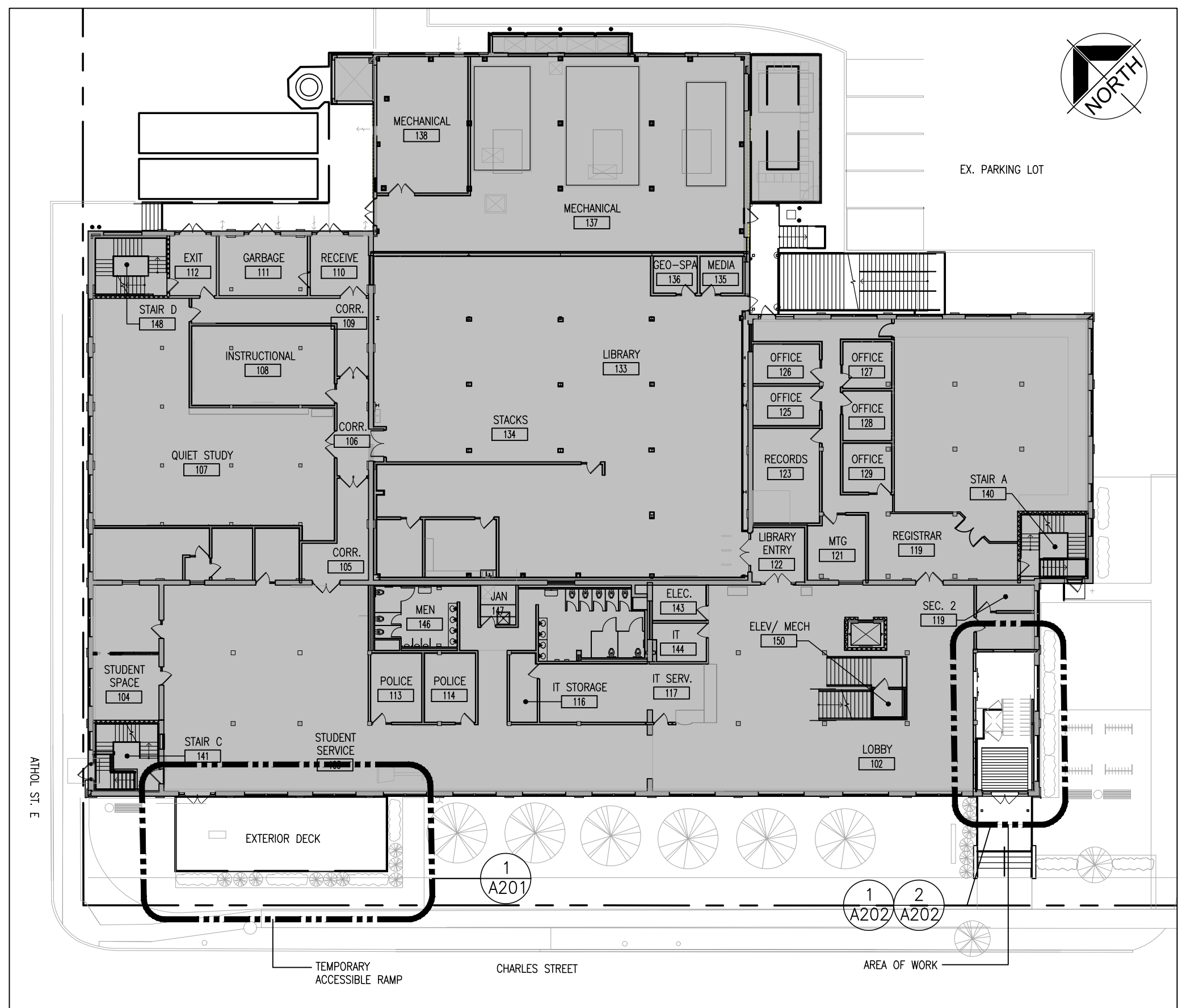
- S101 GENERAL NOTES & DRAWING LIST
- S102 TYPICAL DETAILS & LINTEL SCHEDULE
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- S501 ELEVATOR SECTIONS
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ELECTRICAL

- E1 NEW ELEVATOR ELECTRICAL LAYOUT



LOCATION OF WORK



SITE PLAN

2 A000 LOCATION MAP N.T.S.

1 A000 1:300

ARCHITECTURAL/ STRUCTURAL:

MECHANICAL/ ELECTRICAL:

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Engineers
Project Managers
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CONSULTING ENGINEERS & PLANNERS
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dgbiddle.com 905-576-8500 705-201-0272

250 WATER STREET, SUITE 201 WHITBY, ONTARIO, CANADA L1N 0G5 TEL: (905) - 666 - 5252 (Toronto) (905) - 427 - 4495 FAX: (905) - 666 - 5256	
NAME OF PROJECT : OTU VESTIBULE LIFT RENEWAL (39m²)	
LOCATION OF PROJECT : 61 CHARLES STREET, OSHAWA, ONTARIO L1H 4X8	
DATE : AUGUST 2025	
Ontario Building Code Data Matrix Part 11 - Renovation of Existing Building	
OBC Reference	
11.00 Building Code Version: O. Reg. 163/24 Last Amendment: O. Reg. 447/24	
11.01 Project Type: <input type="checkbox"/> Addition <input checked="" type="checkbox"/> Renovation <input type="checkbox"/> Addition and Renovation	[A] 1.3.3.B
Description: REPLACE EXISTING ACCESSIBLE LIFT WITH NEW ELEVATOR LIFT	
11.02 Major Occupancy Classification: Occupancy: GROUP A, DIV. 2 Use: UNIVERSITY/ CLASSROOMS/ ADMIN	3.1.2.1.(1), 2.1.4.1.(1) 10.1.1.2, and 11.2.1.
11.03 Superimposed Major Occupancies: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	11.2, 3.2.2.5 to 3.2.2.8 and 2.2.1
Description: -	
11.04 Building Area (m²): Description: Existing New Total 2919 2919 2919	[A] 1.4.1.2., 11.2 and 11.3
*NO CHANGE	
11.05 Building Height: 3 (three) Storeys above grade 13.52 (m) Above grade 0 (ZERO) Storeys below grade	[A] 1.4.1.2, 3.2.1.1, 2.2.2.2 and 11.3
11.06 Number of streets/ fire fighter access: 2 (two) street(s)	3.2.2.10, 3.2.5, 2.2.4.1 and 11.3
11.07 Building Size: <input type="checkbox"/> Small <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Large <input type="checkbox"/> > Large	11.2.1.1 and T.11.2.1.1.B.-N.
11.08 Existing Building Classification: Change in Major Occupancy: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> Not Applicable (no change of major occupancy) Construction Index: 5 Hazard Index: 6 Importance Category: <input type="checkbox"/> Low <input checked="" type="checkbox"/> Normal <input type="checkbox"/> Post-disaster	10.1.1.2, 11.2.1.1 T.11.2.1.1A T.11.2.1.1B to N, 4.1.2.1.(3), 2.3.1 & 5.2.2.1.(2)
11.09 Renovation Type: <input checked="" type="checkbox"/> Basic Renovation <input type="checkbox"/> Extensive Renovation	11.3.3.1 & 11.3.3.2
11.10 Occupant Load: Floor Level/ Area Occupancy Type Based On Occup. Load (persons) GROUND FLOOR A2 DESIGN 1329 SECOND FLOOR A2 EXISTING 912 THIRD FLOOR A2 2010 LRI 456 CONSULTING REPORT	3.1.17, 2.1.2.2 and 11.4.2.2.
11.11a Plumbing Fixture Requirements: Ratio: Male/Female = 50:50 Except as noted otherwise Floor Level/ Area Occupant Load OBC Reference WC's Required WC's Provided *NO CHANGE	3.7.4, 11.3.4, 11.3.5, 11.4.2.4 & 11.4.2.5.
11.11b Plumbing Fixture Requirements: cont. Floor level/ Area (Repeated) B.F. WC's Required B.F. WC's Provided Universal Washrooms Required Universal Washrooms Provided *NO CHANGE	Tables 3.8.2.3.A and 3.8.2.3.B
11.12 Barrier-free Design: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Explanation: PROVIDING ALTERNATE ENTRANCE DURING CONSTRUCTION	11.3.1.2, 11.3.2, 11.3.3.2
11.13 Reduction in Performance Level: Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of buildings of combustible construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6
11.14 Compensating Construction: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Structural: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By increase in occupant load: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes By change of major occupancy: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Plumbing: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Sewage - system: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes Extension of buildings of Combustible Construction: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.4.2.1 11.4.2.2 11.4.2.3 11.4.2.4 11.4.2.5 11.4.2.6 11.4.2.7
11.15 Compliance Alternatives Proposed: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	11.5.1.
11.16 Alternative Solutions:	[A] 1.2.1.1, and [C] 2.1
11.17 Notes:	DESCRIPTION OF WORK: REPLACE EXISTING ACCESSIBLE LIFT WITH NEW ELEVATOR LIFT. AREA OF WORK IS 39m². NEW TEMPORARY ACCESSIBLE RAMP.

DO NOT SCALE THE DRAWINGS.
CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.
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OntarioTech
UNIVERSITY

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5	ISSUED FOR TENDER	SEPT. 02, 2025	BBA

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OTU VESTIBULE NEW ELEVATOR RENEWAL

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Oshawa, ON L1H 4X8
ONTARIO TECH UNIVERSITY

DRAWING:
DRAWING LIST, LOCATION MAP AND SITE PLAN

BARRY BRYAN ASSOCIATES
Architects
Engineers
Project Managers
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L1N 0G5
Tel: (905) 666-5252
Fax: (905) 666-5256
e-mail: bba@bba-archeng.com

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DATE: MAY, 2025	
SCALE: 1:50	
FILE:	

PROJECT NO: 24155.1	DRAWING NO: A000
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ABBREVIATIONS

U/G

UNDERGROUND

TWSI

TACTILE WARNING STRIP INDICATOR

CONC.

CONCRETE

TYP.

TYPICAL

EX./ EXIST.

EXISTING

EXT.

EXTERIOR

INT.

INTERIOR

LEGEND

DENOTES DEMOLITION OF BUILDING ELEMENT

△

BUILDING ENTRANCE
DO NOT OBSTRUCT

◇

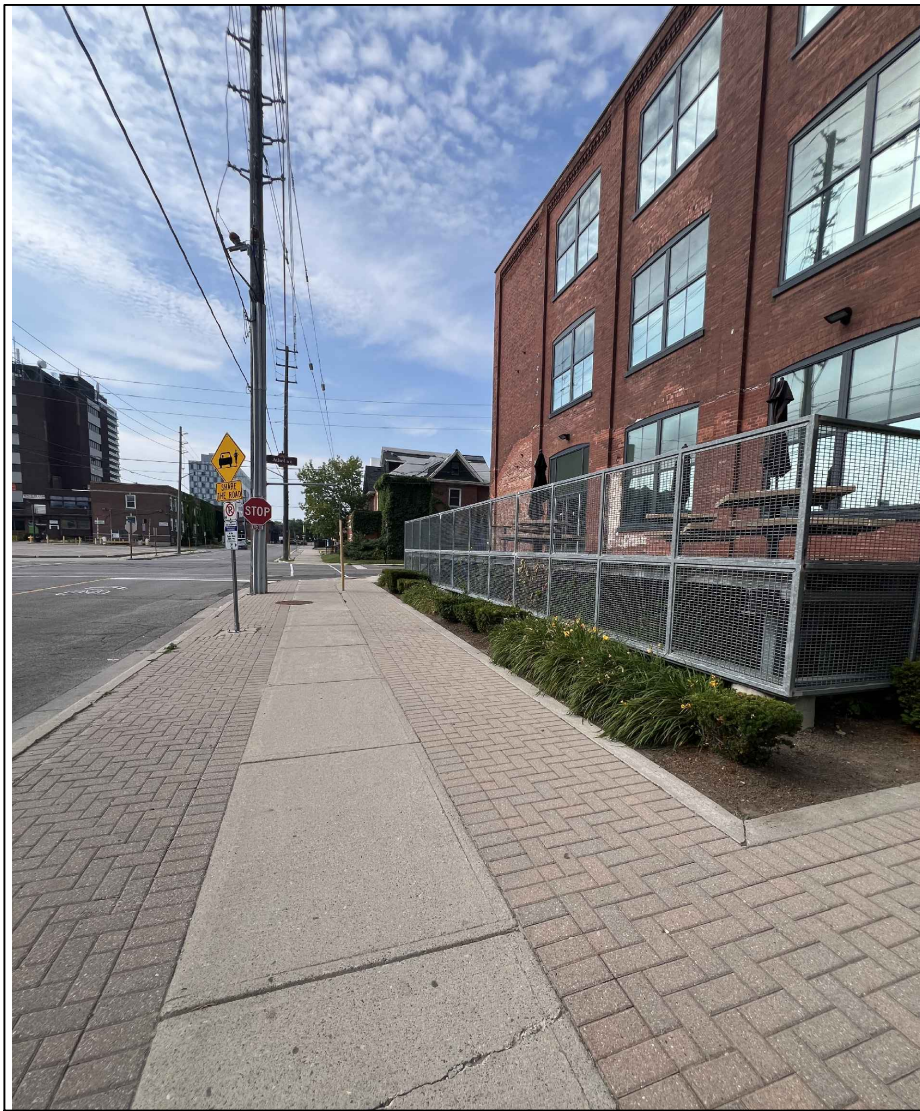
DEMOLITION TAGS

HATCH DENOTES TO EXTENT OF CONCRETE TO BE DEMOLISHED

HATCH DENOTES TO CARPET MAT



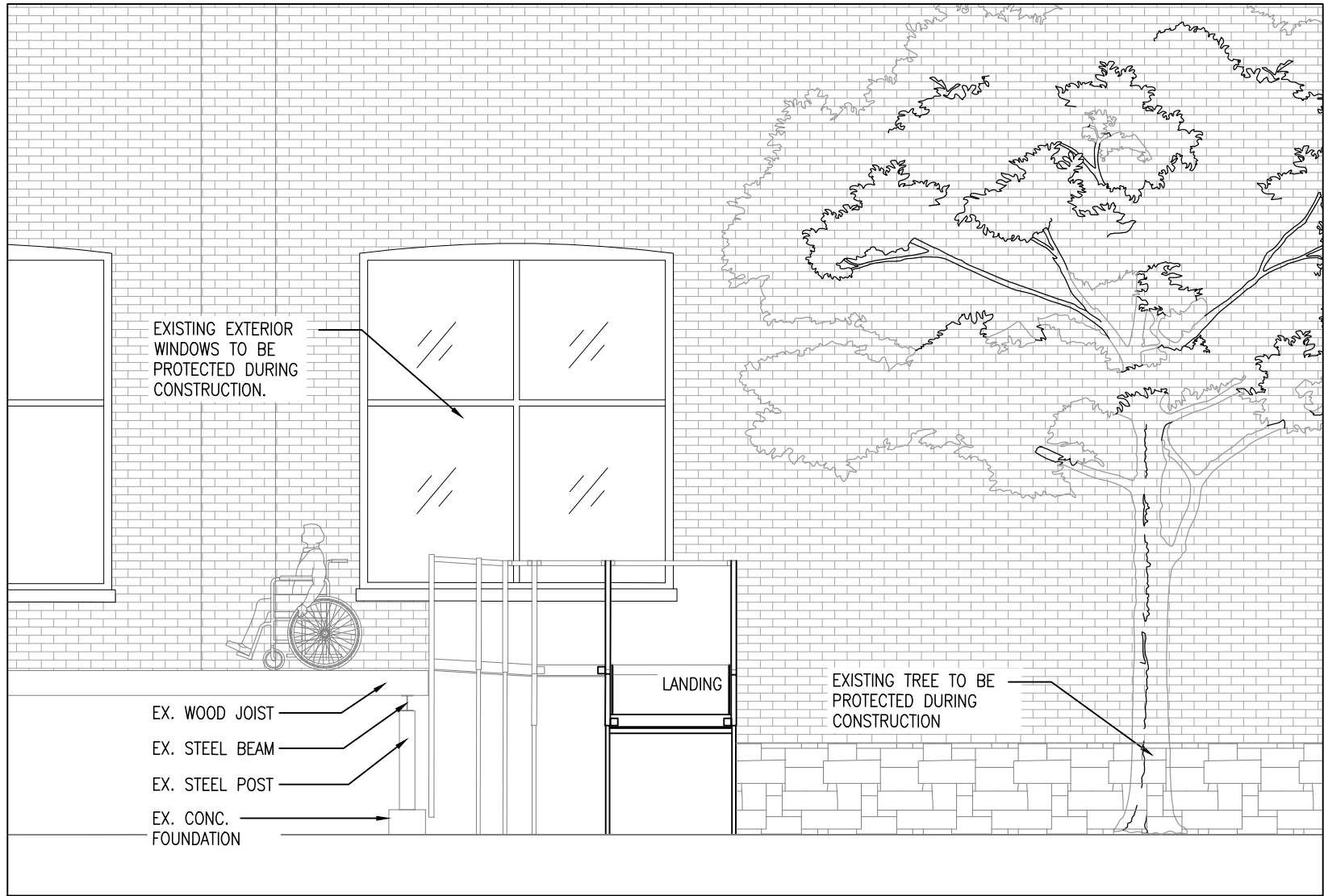
6
A201
PERSPECTIVE 3
1:50



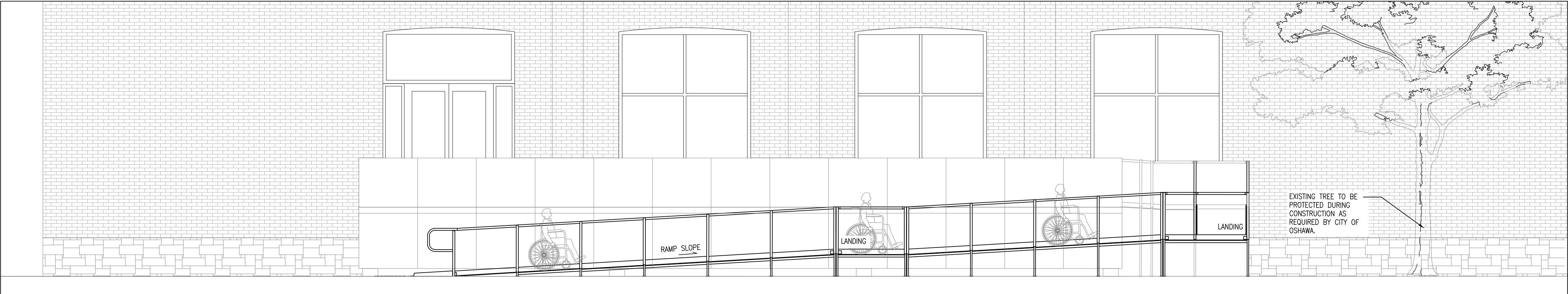
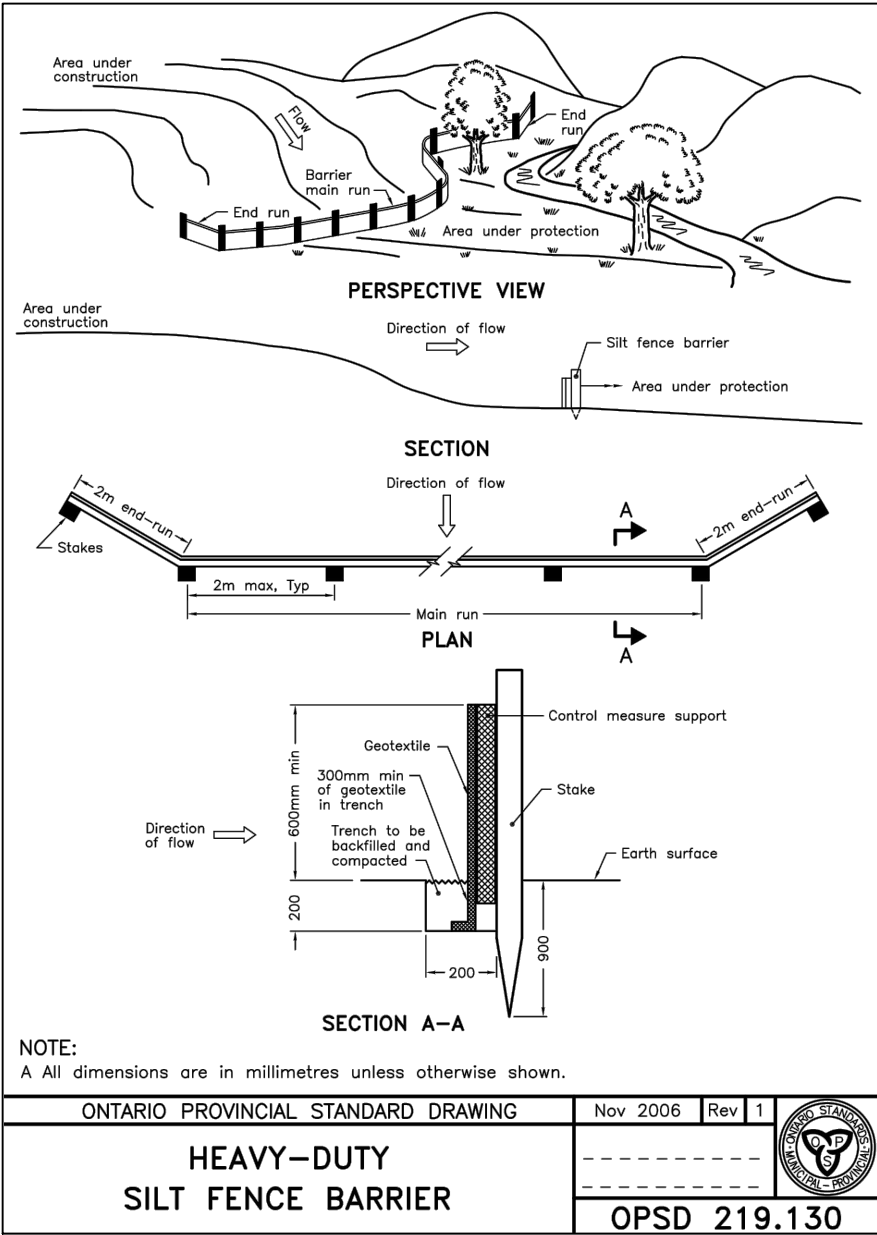
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PERSPECTIVE 2
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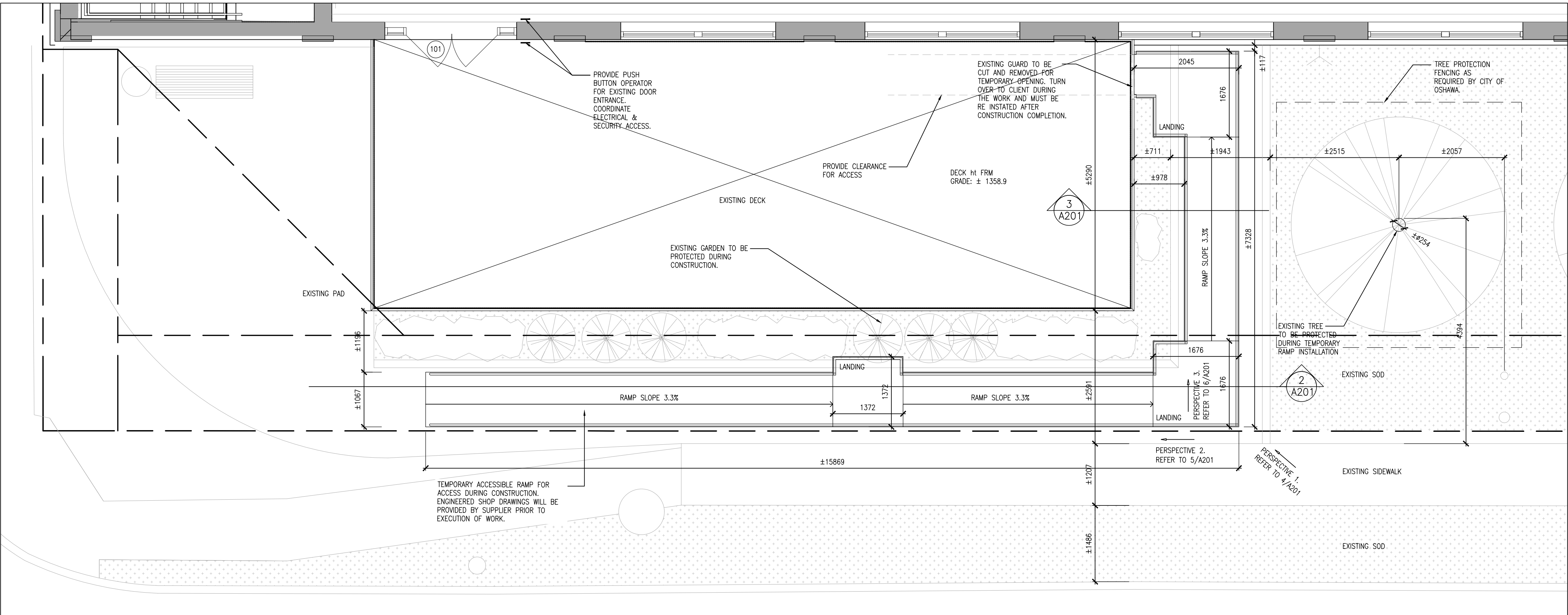
4
A201
PERSPECTIVE 1
1:50



3
A201
SECTION
1:50



2
A201
SECTION
1:50



1
A201
PART FIRST FLOOR PLAN - TEMPORARY RAMP
1:50

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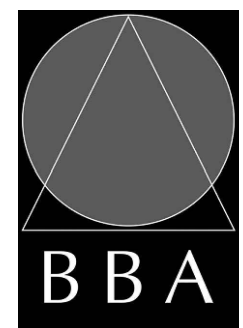
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ELEVATOR RENEWAL**

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Oshawa, ON L1H 4X8
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DRAWING:
**PART FLOOR PLAN
EXISTING DECK - TEMP
RAMP ACCESS**



**BARRY BRYAN
ASSOCIATES**

Architects
Engineers
Project Managers

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24155.1

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A201

1. CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE LATEST EDITION AND THE OCCUPATIONAL HEALTH AND SAFETY ACT REGULATIONS FOR CONSTRUCTION PROJECTS.
2. SITE VERIFY ALL DIMENSIONS AND LEVELS.
3. EXISTING BUILDING CONSTRUCTION IS BASED ON INFORMATION SUPPLIED BY THE OWNER AND NON DESTRUCTIVE ON SITE VIEW. ALL EXISTING CONSTRUCTION IS TO BE VERIFIED BY THE CONTRACTOR.
4. THIS WORK MUST BE PERFORMED ADJACENT TO AND AROUND RESIDENTS OF THE CORRECTIONAL FACILITY AS WELL AS CORRECTIONAL SERVICES WORKERS. EXERCISE EXTREME CAUTION AND PROVIDE ALL NECESSARY PROTECTION AS REQUIRED AND APPROVED BY THE OWNER.
5. ALL WORK WILL REQUIRE ESCORT AND COORDINATION WITH CORRECTIONAL FACILITY STAFF
6. EXISTING EXERCISE YARDS MAY NOT BE USED FOR CONTRACTOR'S LAYDOWN OR MATERIAL DISPOSAL AREAS. PROVIDE ALL EQUIPMENT NECESSARY FOR STORAGE AREAS AND FOR DELIVERY AND REMOVAL OF MATERIALS. COMPLY WITH OWNER'S SECURITY REQUIREMENTS FOR ON-SITE MANAGEMENT OF TOOLS AND EQUIPMENT.
7. DO NOT PERMIT ANY TOOLS OR EQUIPMENT TO BE LEFT ON SITE DURING OFF-HOURS EXCEPT AS PERMITTED BY OWNER.
8. BUILDING MUST BE LEFT IN A SECURE CONDITION AFTER EACH DAYS WORK.
9. BE RESPONSIBLE FOR ANY DAMAGE TO THE EXISTING BUILDING, EQUIPMENT AND EQUIPMENT, AND REPAIR SAME TO THE SATISFACTION OF THE OWNER AND CONSULTANT.
10. KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
11. FILE NOTICE OF PROJECT WITH MINISTRY OF LABOUR PRIOR TO COMMENCEMENT.
12. DISPOSE OF ALL REMOVED MATERIALS AND DEBRIS OFF SITE AT THE END OF EACH WORK DAY.
13. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE ONTARIO ELECTRICAL CODE.
14. SCHEDULE ALL WORK WITH THE OWNER.
15. ALL FABRICATION TO BE COMPLETED OFF SITE.

	DENOTES DEMOLITION OF BUILDING ELEMENT
	BUILDING ENTRANCE *DO NOT OBSTRUCT*
	DEMOLITION TAGS
	HATCH DENOTES TO EXTENT OF CONCRETE TO BE DEMOLISHED
	HATCH DENOTES TO CARPET MAT

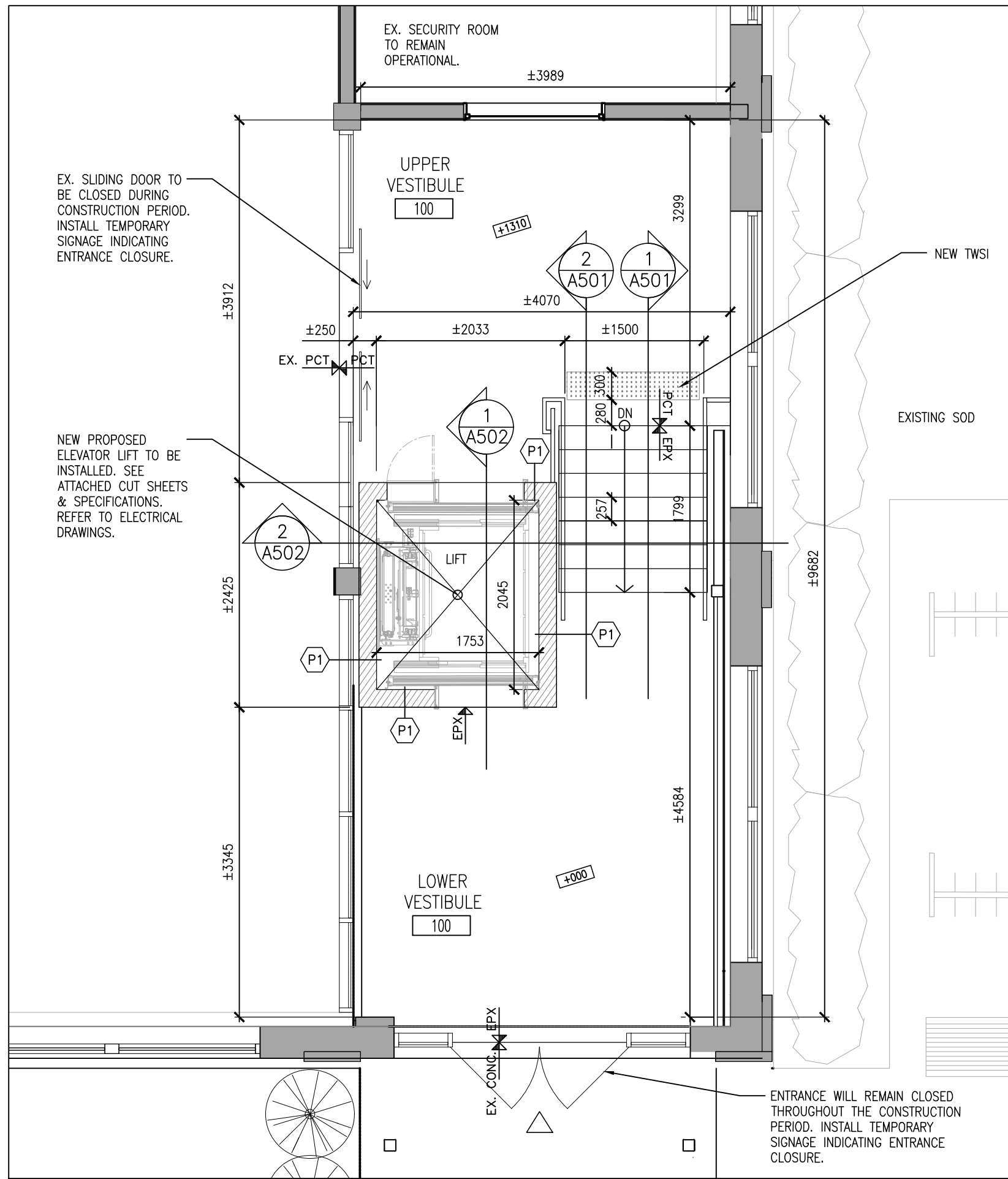
		190mm CONC. BLOCK WALL
		200mm POURED CONC. WALL

- 1 REMOVE EXISTING CONCRETE STAIRS IN ITS ENTIRETY AND AS REQUIRED TO COMPLETE NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES.
- 2 REMOVE AND DISPOSE EXISTING HAND RAILING.
- 3 REMOVE EXISTING PORCELAIN TILE AT EXTENT SHOWN. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACES. PREPARE SLAB FOR NEW TILE INSTALLATION.
- 4 REMOVE EXISTING LIFT IN ITS ENTIRETY AND PIT SHAFT. PREPARE AREA TO RECEIVE NEW ELEVATOR.
- 5 REMOVE CONCRETE SLAB TO EXTENTS INDICATED. PATCH, REPAIR AND MAKE GOOD ALL SIDES OF FLOORING.
- 6 REMOVE LOW LEVEL WALL AS REQUIRED TO COMPLETE NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED AREAS.
- 7 REMOVE GLASS SLIDING DOOR AND FRAME TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACE AREAS.
- 8 EXISTING GLAZING WALLS AND WINDOWS TO BE PROTECTED DURING NEW WORK. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACE AREAS.
- 9 EXISTING INT. STEEL AND TIMBER COLUMNS TO BE PROTECTED DURING CONSTRUCTION PERIOD. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED SURFACE AREAS.
- 10 EXISTING SCREEN SECURITY AND OPENING TO BE PROTECTED AND SEALED DURING CONSTRUCTION.
- 11 EXISTING PORTION OF GYPSUM BOARD CEILING AND EXISTING LIGHTING TO BE REMOVED. PATCH, REPAIR AND MAKE GOOD ALL AFFECTED AREAS.
- 12 GRIND EXISTING EPOXY PAINT AS REQUIRED TO APPLY NEW EPOXY PAINT.
- 13 CAREFULLY REMOVE EXISTING GLAZING AS REQUIRED TO COMPLETE BLOCK WALL INSTALLATION. STORE AND PROTECT DURING CONSTRUCTION FOR RE INSTALLATION.

U/G	UNDERGROUND
TWSI	TACTILE WARNING STRIP INDICATOR
CONC.	CONCRETE
TYP.	TYPICAL
EX./ EXIST.	EXISTING
EXT.	EXTERIOR
INT.	INTERIOR
PCT.	PORCELAIN TILE
EPX.	EPOXY

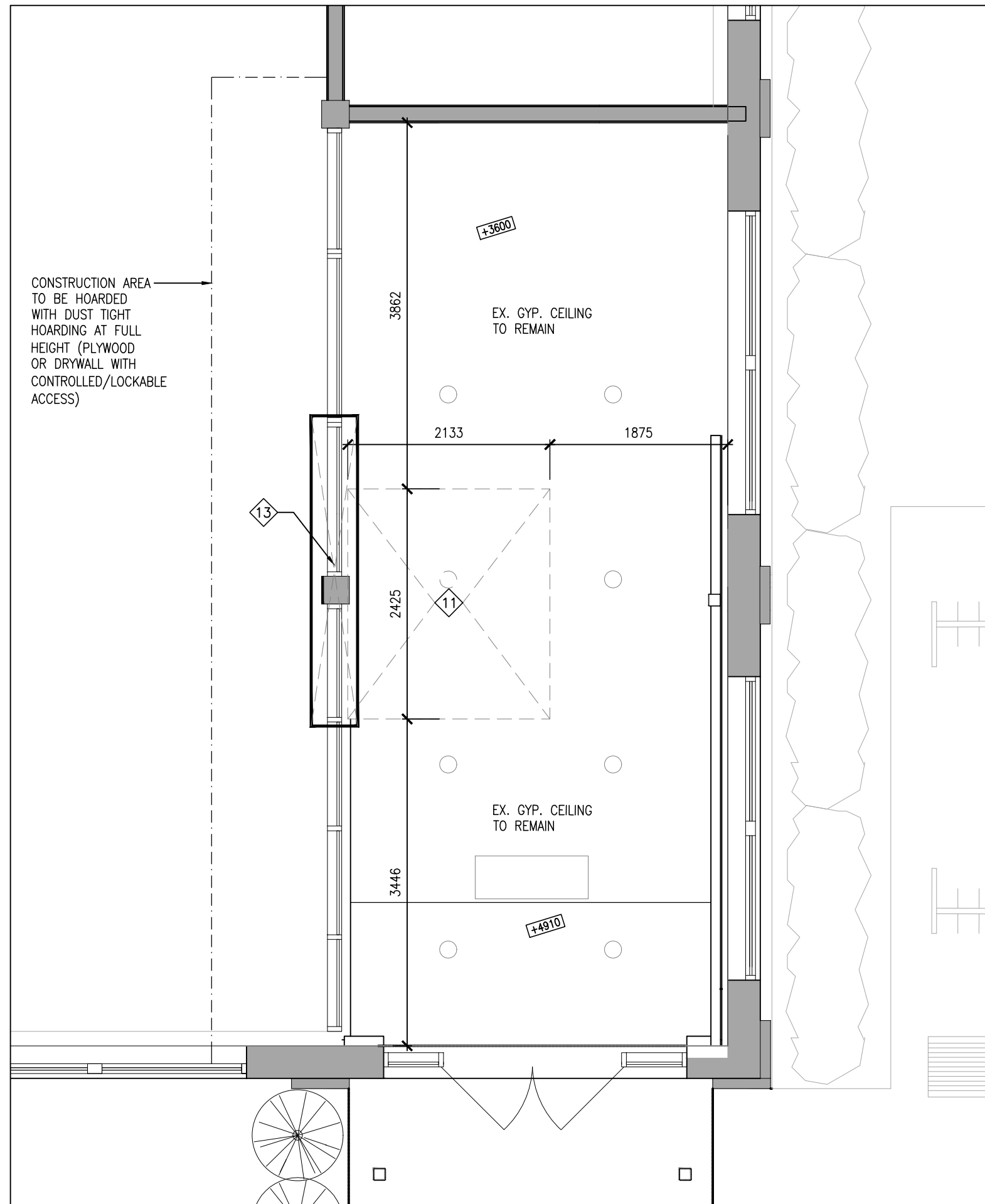
GROUND FLOOR	ROOM SCHEDULE													
				FLOOR	BASE	WALLS				CEILING	CEILING HEIGHT	REV.	REMARKS	
	NO.	ROOM NAME				NORTH	EAST	SOUTH	WEST					
100	LOWER VESTIBULE	MAT. COL.	CONEC EPX	- EPX	- -	- -	- -	- -	- -	GWB PT1	2705 -	- -	DO NOT PAINT EXISTING BRICK AND EXPOSED CONCRETE WALLS, PROTECT DURING CONSTRUCTION. ONLY PAINT AREAS PREVIOUSLY PAINTED.	
100	UPPER VESTIBULE	MAT. COL.	CONEC PCT	- PCT1	- PCT1	GWB PT1	- -	- -	- -	GWB PT1	2705 -	- -	DO NOT PAINT EXISTING BRICK AND EXPOSED CONCRETE WALLS, PROTECT DURING CONSTRUCTION. ONLY PAINT AREAS PREVIOUSLY PAINTED.	

PT1 - BENJAMIN MOORE DOVE WHITE, SATIN OC-17
EPX - EPOXY TO MATCH EXISTING
EXIST. - EXISTING
CONC. - CONCRETE

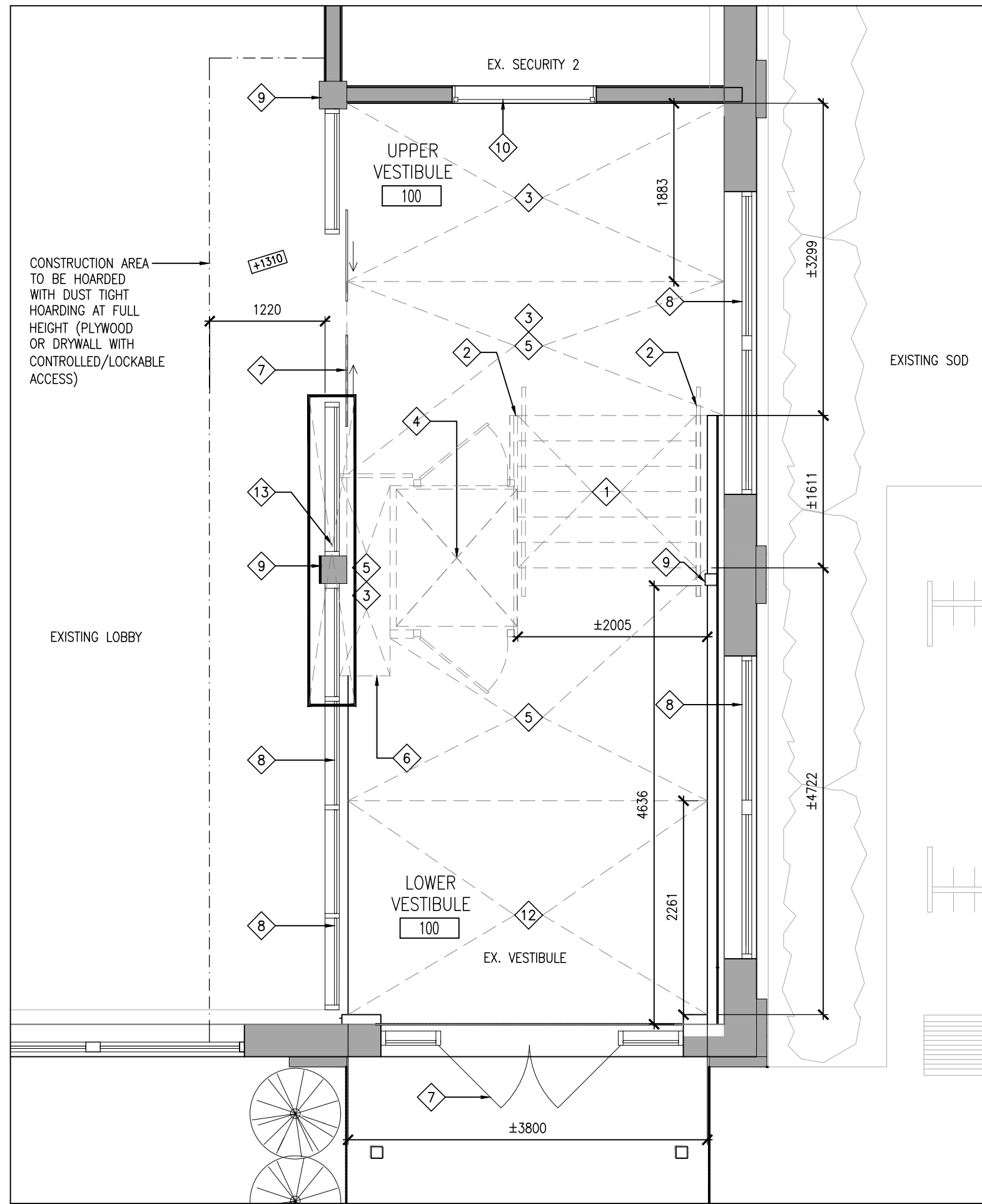


2
A202

PART FIRST FLOOR PLAN
1:50



3 PART DEMOLITION RCP
A202 1:50



1 PART DEMOLITION FIRST FLOOR PLAN
A202 1:50

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PART FIRST FLOOR PLAN



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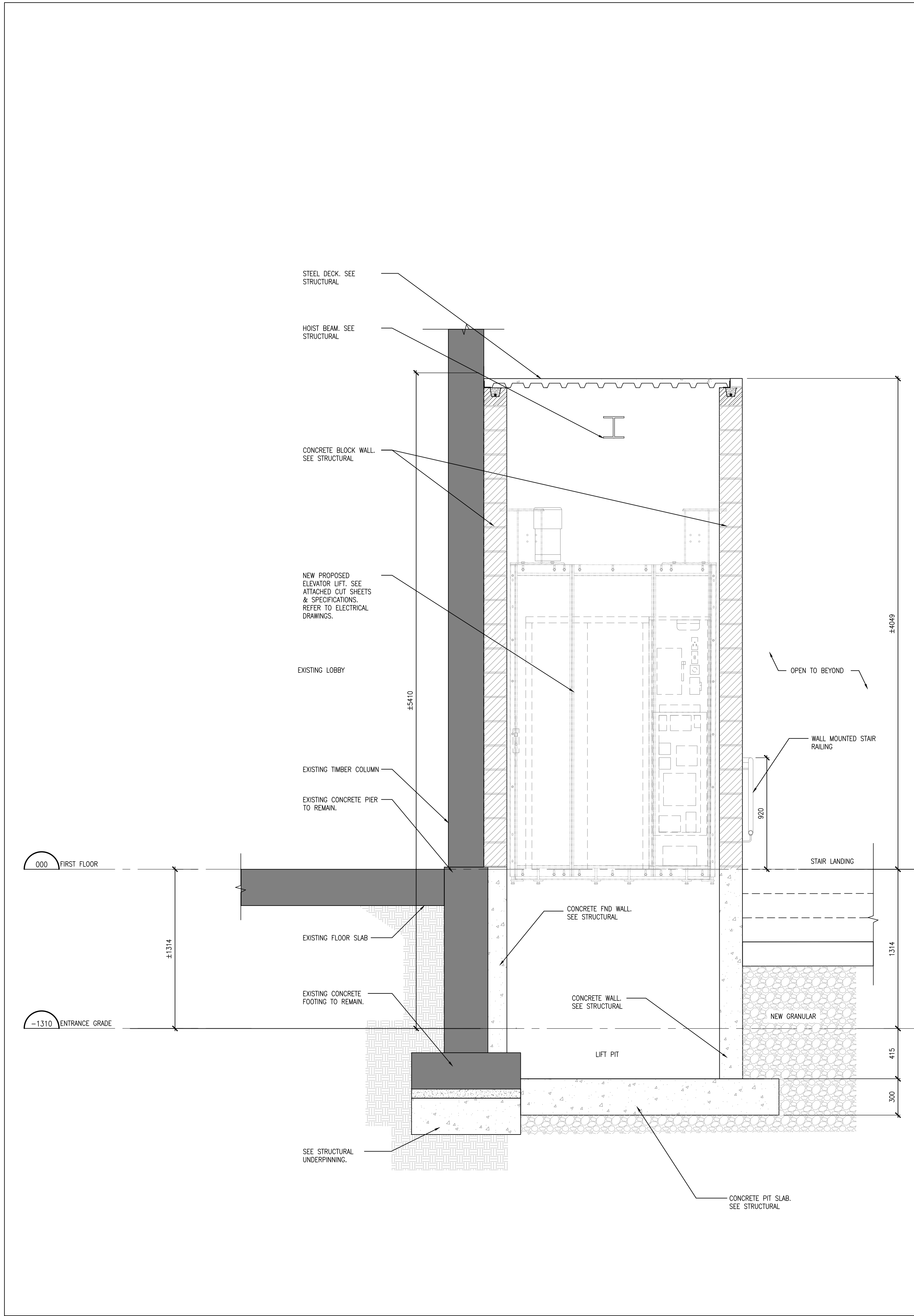
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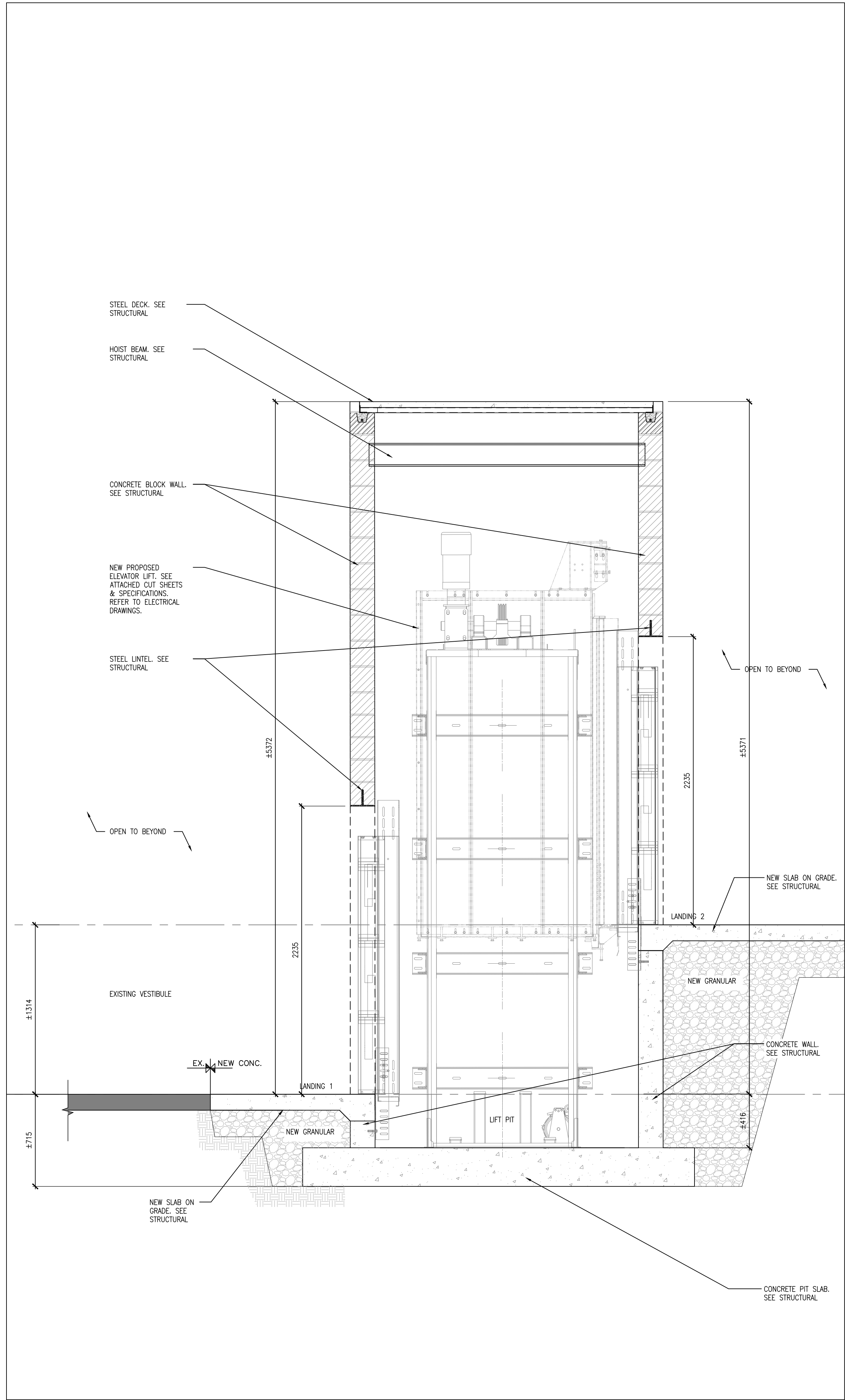
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DRAWING NO.

A501



2
A502 ELEVATOR SECTION
1:20



1
A502 ELEVATOR SECTION
1:20

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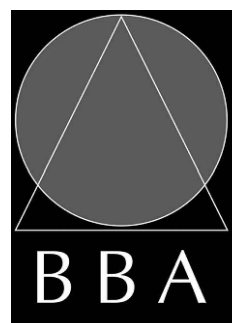
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PROJECT NO:

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DRAWING NO:

A502

7.1001

GENERAL

- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE LATEST EDITION OF ALL RELEVANT CODES AND STANDARDS.
- CONFORM TO OWNER'S GENERAL SPECIFICATIONS INCLUDING ALL SAFETY REQUIREMENTS.
- SITE VERIFY ALL DIMENSIONS AND LEVELS.
- KEEP THE SITE THROUGHOUT THE WORK AREA IN A CLEAN AND ORDERLY CONDITION AT ALL TIMES TO THE SATISFACTION OF THE OWNER.
- ALL STRUCTURAL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH OTHER CONSULTANTS' DRAWINGS.

DEMOLITION NOTES

- PROVIDE PROTECTION AS REQUIRED TO PREVENT DAMAGE TO THE EXISTING STRUCTURE AND/OR ADJACENT EQUIPMENT. PROTECT ALL EXISTING FINISHES, FRAMES AND PROPERTY.
- SAW CUT, REMOVE AND DISPOSE OF EXISTING DEMOLISHED MATERIALS OFF-SITE, AS REQUIRED TO COMPLETE THE WORK. REMOVAL OF ALL ACM IS BY OTHERS.
- KEEP THE WORK AND STAGING AREAS CLEAN AND ORDERLY AT ALL TIMES AND FREE FROM RUBBLE AND DEBRIS.
- NOTIFY CONSULTANT OF ANY LOAD BEARING MEMBERS OR ASSEMBLIES DISCOVERED OR IDENTIFIED DURING WORK WITH EXCESSIVE DETERIORATION BEYOND WHAT IS NOT INDICATED ON THE DRAWINGS. DO NOT PROCEED WITH REMOVAL WITHOUT PRIOR REVIEW BY THE CONSULTING STRUCTURAL ENGINEER.
- ALL BUILDING MATERIALS TO BE REMOVED FROM THE BUILDING SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE AND SHALL BE REMOVED FROM THE SITE.
- COVER ALL LOADED TRUCKS LEAVING THE DEMOLITION SITE.
- CARRY OUT SAFETY MEASURES AS PER THE CONSTRUCTION SAFETY ASSOCIATION OF ONTARIO ACT AND REGULATIONS FOR DEMOLITION.
- THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY MANUAL APPLIES TO THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE TO PERFORM ALL WORK IN ACCORDANCE WITH O.H.S.A..
- CONTRACTOR SHALL KEEP CLEAR AND NOT INHIBIT THE USE OF BUILDING FIRE ROUTE AND ALL HYDRANTS DURING THE ENTIRE DEMOLITION WORK.
- REPORT ANY DOUBTFUL UNFORESEEN AND/OR UNEXPECTED SITE CONDITIONS TO THE ENGINEER PRIOR TO PROCEEDING.
- THE CONTRACTOR SHALL EXPOSE AND ASSIST THE TDSB OWN FORCES/ENVIRONMENTAL CONSULTANT TO TAKE SAMPLES OF THE EXISTING WATER PROOFING MEMBRANE AND CLAY TILE SUB DRAINAGE SYSTEMS. FOR PRICING PURPOSES THE CONTRACTOR SHALL ASSUME ALL EXISTING MATERIALS TO BE REMOVED ARE CLEAR.

TEMPORARY WORKS

- THE CONTRACTOR SHALL DESIGN, PROVIDE, ERECT, MAINTAIN REMOVE AND ASSUME FULL AND SOLE RESPONSIBILITY FOR ALL TEMPORARY WORKS REQUIRED FOR THE SAFE AND COMPLETE EXECUTION OF THE WORKS.
- IN THE EXECUTION OF THE TEMPORARY WORKS AND FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE ADEQUATE PROVISION FOR ALL LIKELY CONSTRUCTION LOADING AND PROVIDE SUFFICIENT BRACING AND PROPS TO KEEP THE WORKS IN PLUMB AND ALIGNMENT AND FREE FROM EXCESSIVE DEFLECTION.
- ACCESS OF HEAVY CONSTRUCTION EQUIPMENT AND ACCUMULATION OF CONSTRUCTION MATERIALS ON THE FLOORS ARE NOT PERMITTED, UNLESS SUCH HAVE BEEN CATERED FOR IN THE CONTRACTOR'S TEMPORARY WORK DESIGN TO THE SATISFACTION OF THE ARCHTECT.
- SUBMIT SHOP DRAWINGS FOR ALL TEMPORARY WORKS FOR REVIEW BEFORE FABRICATION COMMENCES. SHOP DRAWINGS SHALL BE SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE PROVINCE OF ONTARIO.

FOUNDATIONS

- FOUNDATION DESIGN BASED ON ASSUMED BEARING CAPACITY OF 100 kPa (SLS) AND 150 kPa (ULS) ON NATIVE MATERIAL. THE BEARING CAPACITY MUST BE CONFIRMED BY THE GEOTECHNICAL ENGINEER PRIOR TO PLACING FOUNDATIONS.
- ALL FOOTINGS SHALL BEAR ON UNDISTURBED NATIVE SOIL OR ENGINEERED FILL AS APPROVED BY THE GEOTECHNICAL CONSULTANT. REPORT ANY DOUBTFUL BEARING CONDITIONS TO THE STRUCTURAL ENGINEER BEFORE PLACING FOOTING.
- MATERIALS FOR BACKFILL SHALL BE GRANULAR 'A' AND GRANULAR 'B' CONFORMING TO OPSS STANDARDS COMPACTED TO 98% STANDARD PROCTOR MAX. DRY DENSITY.
- ALL EXTERIOR FOOTINGS SHALL BE MINIMUM 1500mm BELOW FINISHED GRADE, AS SHOWN ON DRAWINGS.
- ALL PIERS AND FOOTINGS UNDER COLUMNS TO BE CENTRED UNDER THE COLUMNS UNLESS NOTED OTHERWISE ON THE PLAN.

DESIGN LOADS

STAIRS		
DEAD LOAD (SELF WEIGHT)	4.8 kPa	
LIVE LOAD	4.8 kPa	
GUARD LOAD	PER LATEST O.B.C.	

EXCAVATION, BACKFILLING AND GRADING

CODES, REGULATIONS

- CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE, THE ONTARIO PROVINCIAL STANDARD SPECIFICATIONS (OPSS) AND THE WORKPLACE HEALTH AND SAFETY ACT.

EXAMINATION

- BEFORE TENDERING THE WORK, THE CONTRACTOR SHALL EXAMINE THE SITE AND ASCERTAIN THE EXTENT AND NATURE OF THE MATERIAL IT MAY BE NECESSARY TO REMOVE TO PROVIDE FOR THE DEPTHS, LEVELS, AND GRADES REQUIRED, TO ASSURE HIMSELF THAT HIS DETERMINATIONS ARE MADE IN CONFORMITY WITH THE DRAWINGS AND SPECIFICATIONS.

SETTING OUT WORK

- THE DRAWINGS INDICATE THE SITE COMPONENTS LOCATION, AND PROPOSED AND FINAL GRADES. BE RESPONSIBLE TO CONSTRUCT THE WORK ACCORDING TO LEVELS AND LOCATIONS SHOWN ON THE DRAWINGS. REPORT ANY ERRORS OR DISCREPANCIES TO THE CONSULTANT BEFORE COMMENCING WITH THE WORK. COMMENCEMENT OF ANY PART OF THE WORK SHALL CONSTITUTE ACCEPTANCE OF DRAWINGS AS BEING CORRECT.
- EMPLOY A COMPETENT INSTRUMENT PERSON AND PROVIDE ALL LINES AND LEVELS, LIMIT LINES AND BOUNDARY STAKES FOR THE EXECUTION OF THE WORK AS REQUIRED. ALL BENCH MARKS SHALL BE CAREFULLY PROTECTED.
- PROVIDE ALL SUBCONTRACTORS WITH, AND BE RESPONSIBLE FOR, ALL LINES, LEVELS AND DIMENSIONS WHICH SUCH TRADES REQUIRE TO RELATE THEIR WORK TO THE WORK OF THE CONTRACTOR OR OTHER TRADES. ALL TRADES SHALL BE NOTIFIED THAT ALL SUCH LEVELS AND DIMENSIONS MUST BE OBTAINED FROM THE CONTRACTOR.

PROTECTION

- PROTECTION OF EXISTING SERVICES
- BEFORE STARTING THE WORK, VERIFY THE LOCATION OF ALL KNOWN UNDERGROUND SERVICES AND UTILITIES OCCURRING IN THE WORK SITE AREA.
- NOTIFY THE OWNER, PUBLIC UTILITY OR MUNICIPAL AUTHORITIES IN ADVANCE OF PLANNED EXCAVATIONS ADJACENT TO THEIR SERVICES.
- TAKE CARE NOT TO DAMAGE OR DISPLACE ENCOUNTERED KNOWN AND UNKNOWN SERVICES.
- WHEN SUCH SERVICES ARE ENCOUNTERED DURING THE EXECUTION OF WORK, IMMEDIATELY NOTIFY THE CONSULTANT AND PROTECT, BRACE AND SUPPORT ACTIVE SERVICES. WHERE REPAIRS TO THESE SERVICES BECOME NECESSARY USE THE FOLLOWING PROCEDURE:
 - KNOWN SERVICES, REPAIR AT NO EXPENSE TO THE OWNER.
 - UNKNOWN SERVICES, FORWARD TO THE CONSULTANT A COMPLETE BREAKDOWN OF THE ESTIMATED COST OF SUCH WORK. PROCEED ONLY UPON WRITTEN AUTHORIZATION.
- IN THE CASE OF DAMAGE TO, OR CUTTING OFF OF AN ESSENTIAL SERVICE, NOTIFY CONSULTANT, THE OWNER, AND PUBLIC UTILITY OR MUNICIPAL AUTHORITIES IMMEDIATELY AND REPAIR THE SERVICE UNDER THE CONSULTANT'S DIRECTION.
- BACKFILL
 - ASSUME REUSE EXISTING COMPACT SOIL AND INFILL BALANCE OF GRANULAR MATERIAL/TOPSOIL AS REQUIRED TO ACCOMPLISH WORK ON PROJECT.
 - ALL FILL SHALL BE STORED ON SITE IN A LOCATION APPROVED BY THE OWNER/CONSULTANT AND SHALL BE PROTECTED AS REQUIRED FOR RE-USE.

EXCAVATION WORK

- REMOVE ALL CONCRETE, MASONRY, RUBBLE OR OTHER CONSTRUCTION DEBRIS ENCOUNTERED DURING THE WORK.
- KEEP EXCAVATION FREE OF WATER BY BAILING, PUMPING OR A SYSTEM OF DRAINAGE AS REQUIRED AND PROVIDE PUMPS, SUCTION AND DISCHARGE LINES OR WELL POINTS OF SUFFICIENT CAPACITY AND MAINTAIN UNTIL SUCH TIME AS THE PERMANENT DRAINAGE SYSTEM IS INSTALLED OR UNTIL THE CONSULTANT'S APPROVAL OF REMOVAL OF EQUIPMENT IS OBTAINED. TAKE ALL NECESSARY MEASURES TO PREVENT FLOW OF WATER INTO THE EXCAVATION.
- PROTECT THE BOTTOM AND SIDES OF EXCAVATED PITS AND TRENCHES FROM FREEZING. PROTECT ALSO FROM EXPOSURE TO THE SUN AND WET WEATHER TO PREVENT CAVE-INS AND SOFTENING OF THE BED UPON WHICH CONCRETE OR DRAINS REST.
- EXCAVATIONS MUST NOT INTERFERE WITH THE NORMAL 45 DEGREE PLANE OF BEARING FROM THE BOTTOM OF ANY FOOTING.
- KEEP BOTTOMS OF EXCAVATIONS CLEAN AND CLEAR OF LOOSE MATERIALS LEVELLED AND STEPPED AT CHANGES OF LEVELS WITH EXCEPTION OF EXCAVATIONS MADE FOR DRAINAGE PURPOSES AND THOSE SLOPE AS REQUIRED.
- IF THE EXCAVATIONS REVEAL SEEPAGE ZONES, SPRINGS OR OTHER UNEXPECTED SUB-SURFACE CONDITIONS WHICH MAY NECESSITATE REVISIONS OR ADDITIONS TO ANY DRAINAGE SYSTEM, INFORM THE CONSULTANT IMMEDIATELY SO THAT REMEDIAL CAN BE TAKEN.

BACK FILLING

- PROCEED PROMPTLY WITH BACKFILLING AS THE BUILDING REPAIRS PROGRESSES, AND AS WORK TO BE BACKFILLED HAS BEEN INSPECTED AND APPROVED BY THE CONSULTANT. THE BACKFILL SHOULD BE PLACED IN LIFTS NOT GREATER THAN 200mm THICK IN THE LOOSE STATE, EACH LIFT BEING COMPACTED WITH A SUITABLE COMPACTOR TO THE SPECIFIED DENSITY.
- DO NOT COMMENCE BACKFILLING OPERATIONS UNTIL SITE DRAINAGE SYSTEMS AND WATERPROOFING HAS BEEN INSPECTED AND APPROVED BY CONSULTANT.
- WITHDRAW SHORING MATERIAL DURING BACKFILL. LUMBER LEFT IN PLACE WITHOUT THE CONSULTANT'S APPROVAL WILL NOT BE PAID FOR BY THE OWNER.
- WHERE FILL IS PLACED ADJACENT TO STRUCTURES OR VULNERABLE BUILDING COMPONENTS OR IN RESTRICTED AREAS, THE FILL SHALL BE COMPACTED TO THE SAME DEGREE AS SPECIFIED BY SUITABLE EQUIPMENT APPROVED BY THE CONSULTANT, AVOID DAMAGE TO OR DISPLACEMENT OF EXISTING/NEW STRUCTURES.
- ADD WATER IN AMOUNTS REQUIRED ONLY TO ACHIEVE THE OPTIMUM MOISTURE CONTENT, IN ACCORDANCE WITH ASTM D1557.
- BACKFILL SHALL BE FREE OF SNOW AND ICE, TOPSOIL, CONSTRUCTION DEBRIS AND OVERSIZED BOULDERS GREATER THAN 150mm.

CONCRETE

- CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF CAN/CSA-A23.1 AND CAN/CSA-A23.3 WITH THE FOLLOWING PROVISION:

LOCATION	DESIGN STRENGTH (28 DAYS)	SLUMP	EXPOSURE CLASS
EXTERIOR FOOTINGS/ FOUNDATION WALLS AND PIERS	25 MPa	80± 30	F-2
INTERIOR FOOTINGS/FOUNDATION WALLS AND PIERS	25 MPa	80± 30	N
SLAB ON GRADE	25 MPa	80± 30	N*
ALL OTHER INTERIOR CONCRETE	25 MPa	80± 30	N
ALL EXTERIOR REINFORCED CONCRETE (STAIRS & RETAINING WALLS)	35 MPa U.N.O.	80± 30	C-1
EXTERIOR UN-REINFORCED CONCRETE (CURBS & CONCRETE WALKWAYS)	32 MPa U.N.O.	80± 30	C-2

- NO ADDITIONAL WATER SHALL BE ADDED AT THE JOB SITE. CONCRETE WHICH HAS BEEN WATERED OR DOES NOT MEET SPECIFICATIONS SHALL BE REJECTED.
- DURING WINTER WEATHER BELOW 5 °C PROVIDE TEMPORARY HEATING OF CONCRETE IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A23.1, LATEST EDITION.
- STRUCTURAL GROUT SHALL BE NON-SHRINK, NON METALLIC M-BED STANDARD PREMIX BY SIKA OR APPROVED EQUAL.
- WHEN PIPES, CONDUITS, OR SLEEVES ARE REQUIRED TO PENETRATE CONCRETE ASSEMBLIES, THE FOLLOWING SHALL BE OBSERVED:
 - SPACING OF SUCH ITEMS SHALL BE 3x DIAMETER C/C.
 - CONCRETE SHALL NOT BE PENETRATED WITHIN 600mm (24") OF CONCENTRATED LOADS.
 - ANY PENETRATIONS SHALL BE A MINIMUM OF 600mm (24") FROM ALL EDGES, SUCH AS ENDS AND TOPS OF WALLS.
 - FOR ANY PENETRATIONS GREATER THAN 300mm (12"), CONSULT THE ENGINEER FOR REVIEW AND DETERMINATION OF EXTRA REINFORCEMENT REQUIREMENTS.

SLAB ON GRADE

- CAST SLAB ON GRADE ON 200mm (8")MIN CRUSHED STONE AND COMPACTED SUB-GRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT UNLESS NOTED OTHERWISE.
- REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS OF COMPOSITION OF MATERIALS BELOW GRADE (INSULATION AND VAPOUR BARRIER).
- SAWCUT WITHIN 6 TO 18 HOURS, REFER TO THE DRAWINGS FOR SAWCUT REQUIREMENTS.
- DO NOT CAST SLAB MORE THAN 30 METERS IN LENGTH IN EITHER DIRECTION. PLACE SLAB IN STRIP PATTERN. KEY CONSTRUCTION JOINTS AS DETAILED.
- MAINTAIN MINIMUM SPECIFIED THICKNESS AT ALL DEPRESSIONS AND CHANGES IN ELEVATIONS.
- REFER TO ARCHITECTURAL DRAWINGS FOR EXTENT AND LOCATION OF ALL FINISHES, DEPRESSIONS AND SLOPES.
- WELDED WIRE MESH REINFORCING IN SLABS ON GRADE MUST BE PROPERLY CHAIRED. LIFTING OF THE WIRE MESH DURING POURS WILL NOT BE ACCEPTED.

CONCRETE REINFORCEMENT

- THE CLEAR DISTANCE BETWEEN REINFORCING STEEL AND SURFACE OF CONCRETE SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE.

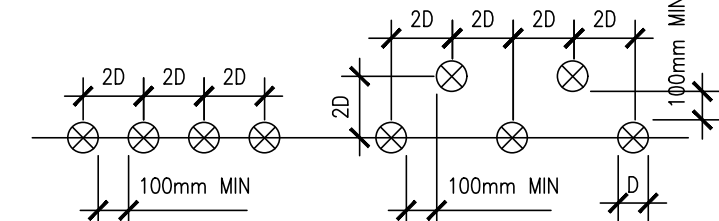
LOCATION	CLEAR COVER
FOOTINGS	75mm(3") UNDERSIDE 50mm(2") TOP AND ENDS
WALLS	50mm(2") AGAINST EARTH (20M BAR OR GREATER) 40mm(1½") AGAINST EARTH (15M BAR) 40mm (1½") AGAINST FORM (20M BAR OR GREATER) 25mm (1") AGAINST FORM (15M BAR)
SLABS	25mm(1") TOP BARS 25mm(1") BOTTOM BARS
COLUMNS/PIERS	40mm(1½") TO TIES
SURFACE IN CONTACT WITH GROUND	75mm(3")
- DETAIL REINFORCING STEEL IN ACCORDANCE WITH "REINFORCING STEEL MANUAL OF STANDARD PRACTICE" LATEST EDITION.
- REINFORCING BAR SPLICES FOR DEFORMED BARS:
 - COLUMNS – COMPRESSION LAP UNLESS NOTED.
 - WALLS – CLASS 'B' TENSION SPLICE UNLESS NOTED
 - ALL OTHERS – CLASS 'B' TENSION LAP UNLESS NOTED
- ALL REINFORCING STEEL SHALL BE DEFORMED HARD GRADE BILLET STEEL CONFORMING TO CSA G30.18 GRADE 400.
- WELDED STEEL WIRE FABRIC, PLAN TYPE CONFORMING TO ASTM A1064/A1064M-17 IN FLAT SHEETS NOT ROLLED.
- ALL CONCRETE REINFORCEMENT MUST BE PROPERLY CHAIRED WITH APPROVED BAR SUPPORTS.
- PROVIDE CHAIRS, SPACER BARS, SUPPORT BARS AND OTHER ACCESSORIES TO SUPPORT REINFORCING IN ACCORDANCE WITH THE LATEST EDITIONS OF CSA A23.1 AND CSA A23.3 CHAIRS TO BE PLASTIC, PLASTIC TIPPED OR CONCRETE. ALL TIE WIRE, CHAIRS AND BAR SUPPORTS USED FOR COATED REINFORCING SHALL BE NON-METALLIC OR PROTECTED WITH ACCEPTABLE COATING.
- CHAIRS SHALL BE SPACED AT 1200mm(4'-0")O.C. MAXIMUM.

CONDUITS, PIPES AND SLEEVES EMBEDDED IN CONCRETE

SEE ALSO CSA-A23.1 – CLAUSE 13.5

EXCEPT WHEN APPROVED BY THE STRUCTURAL ENGINEER, PIPES, CONDUITS, AND SLEEVES EMBEDDED IN CONCRETE SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING GUIDELINES:

- GENERAL
- NOT WITHSTANDING THE SATISFYING OF THESE GUIDELINES, THE CONDUIT, SLEEVES, PIPES, ETC. SHALL NOT IMPAIR THE STRUCTURAL STRENGTH AND SHALL BE MOVED IF SO DIRECTED BY THE STRUCTURAL ENGINEER.
- CENTRELINE SPACING TO BE NOT LESS THAN 3 DIAMETERS – UNLESS NOTED OTHERWISE.
- CENTRELINE SPACING BETWEEN PARALLEL CONDUIT AND REINFORCING BARS TO BE 3 DIAMETERS – UNLESS NOTED OTHERWISE.
- ADD REINFORCING AT POINTS OF CONGESTION AS DIRECTED BY STRUCTURAL ENGINEER.
- FOR SLABS – CONDUITS IN THE PLANE OF THE SLAB.
- LOCATE BETWEEN TOP AND BOTTOM REINFORCING.
- MAXIMUM SIZE IN ONE LAYER TO BE NOT MORE THAN 1/4 CONCRETE THICKNESS.
- THREE LAYERS OR MORE CROSSING WILL NOT BE PERMITTED.
- FOR COLUMNS – ELECTRICAL BOXES, CONDUIT, SLEEVES OR EMBEDDED PIPES ARE NOT ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- FOR BEAMS – THE TOTAL MAXIMUM SIZE OF HORIZONTAL CONDUIT PARALLEL TO THE BEAM NOT TO EXCEED 4% OF THE AREA. NO SLEEVES THRU ANY BEAMS OR SLAB BANDS UNLESS APPROVED IN WRITING BY THE STRUCTURAL ENGINEER.
- FOR SHEAR WALLS – ELECTRICAL BOXES, CONDUIT, SLEEVES OR EMBEDDED PIPES ARE NOT ALLOWED WITHOUT THE WRITTEN APPROVAL OF THE STRUCTURAL ENGINEER.
- FOR NON-SHEAR WALLS – CONDUIT, SLEEVES OR EMBEDDED PIPES:
 - MAX. DIAMETER = 1/4 WALL THICKNESS.
 - NO HORIZONTAL RUNS PERMITTED.
 - VERTICAL RUNS TO HAVE MINIMUM 50mm CONCRETE COVER AND SHALL HAVE A MINIMUM CLEAR SPACING OF 4 DIAMETERS.
- SPACING OF SLEEVES THROUGH FLAT SLABS TO BE NOT LESS THAN THE FOLLOWING:



- GUIDELINES FOR SLEEVES
- SLEEVES IN FLAT SLABS NOT TO BE LOCATED NEXT TO COLUMNS UNLESS APPROVED BY ENGINEER IN WRITING.
 - CLEAR DIMENSION FOR SLEEVES TO COLUMNS TO BE 1200mm MIN. UNLESS NOTED OTHERWISE ON STRUCTURAL DRAWINGS.

MASONRY

- MASONRY WORK IN ACCORDANCE WITH CAN/CSA A370 AND CAN/CSA A371 EXCEPT WHERE SPECIFIED OTHERWISE.
- ONLY TYPE 'S' MORTAR SHALL BE USED, MINIMUM STRENGTH SHALL BE 12.4 MPa AT 28 DAYS.
- GROUT (PEA GRAVEL) AT BOND BEAMS AND GROUTED HOLLOW BLOCKS TO BE A MINIMUM OF 20MPa COMPRESSIVE STRENGTH AT 28 DAYS. IN ACCORDANCE WITH CAN3-A23.1
- MORTAR FOR EXPOSED EXTERIOR MASONRY SHALL BE AIR ENTRAINED.
- PROVIDE LATERAL RESTRAINT AT TOP OF NON-LOAD BEARING BLOCK PARTITIONS AS INDICATED ON TYPICAL DETAILS.
- PROVIDE VERTICAL WALL REINFORCING FOR FULL HEIGHT OF LIFT, CONTINUOUS FROM FLOOR TO FLOOR/ROOF, WITH CLASS B LAPS.
- MASONRY WORK SHALL CONFORM TO CAN3-S304 AND ITS REFERENCED DOCUMENTS, INCLUDING:
 - CONCRETE BLOCK TO CSA-A165.1, TYPE H15/A. SEE ARCH. DWGS. FOR FIREWALL REQUIREMENTS UNLESS NOTED OTHERWISE. (BASED ON NET AREA) – H 15/C FOR FIREWALL.
 - MORTAR TO CSA-A179M, TYPE 'S' FOR ALL WALLS.
 - GROUT TO CSA-A179-M.
 - MASONRY WIRE REINFORCING TO CSA-G30.14.
 - REINFORCING BARS TO CSA-G30.18-M-400 MPa.
 - WELDED REINFORCING BARS TO CSA-G30.18-400 MPa.
 - CONNECTION TO CAN/CSA A370.
 - PRACTICE TO CAN/CSA A371.
- STRUCTURAL DRAWINGS INDICATE ONLY LOAD-BEARING WALLS.
- SUBMIT EVIDENCE OF MORTAR AND GROUT STRENGTH, FIELD CONTROL AND TESTING SHALL COMPLY WITH REQUIREMENTS OF CLAUSE 5 OF CAN3-304.
- PROVIDE TEMPORARY BRACING OF MASONRY WORK UNTIL PERMANENT LATERAL SUPPORT IS IN PLACE.
- PROVIDE UNTELS OVER ALL OPENINGS IN MASONRY WALLS. SEE UNTEL SCHEDULE FOR REQUIREMENTS.
- REFER TO TYPICAL DETAILS FOR BOND BEAM AND BEARING REQUIREMENTS AT FLOORS AND ROOFS.
- MINIMUM STANDARD LAP LENGTH:

WIRE REIN.	200mm(8")
10M BARS	400mm(16")
15M BARS	600mm(24")
20M BARS	800mm(32")
- UNLESS NOTED OTHERWISE, PROVIDE 2-15M VERTICAL BARS FULL HEIGHT AT:
 - UNSUPPORTED ENDS OF WALLS
 - EACH SIDE OF CONTROL JOINTS
- PROVIDE CLEANOUT PORT AT BOTTOM OF EACH GROUTED CORE WHEN REQUIRED BY ENGINEER; DO NOT CLOSE PORT OR PLACE GROUT UNTIL CORE AND STEEL HAVE BEEN INSPECTED.
- FILL CELLS CONTAINING VERTICAL REINFORCING AND BOLTS WITH GROUT VIBRATE OR PUDDLE TO FILL CELLS COMPLETELY.
- FILL CELLS IN 1500mm (60") LIFTS MAXIMUM OR BETWEEN BOND BEAMS, WHICHEVER IS LESS, UNLESS SPECIAL PROVISIONS ARE MADE TO ENSURE FULL GROUT COLUMNS HAVE BEEN MADE TO THE SATISFACTION OF THE ENGINEER.
- CONTROL JOINTS SHALL BE INSTALLED AT MAXIMUM SPACING OF 6000mm(20'-0") IF NOT OTHERWISE SHOWN ON ARCHITECTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
- FILL BLOCK CORES UNDER ALL BEAMS, JOISTS AND OTHER CONCENTRATED POINT LOADS WITH CONCRETE GROUT. GROUT SHALL EXTEND A MINIMUM OF 600mm (24") BELOW LOAD.
- CONTROL JOINTS AND EXPANSION JOINTS SHALL BE CONTINUED THROUGH BOND BEAMS IF NOT OTHERWISE SHOWN.
- NO MASONRY WORK SHALL BE PERMITTED WITH TEMPERATURE BELOW 5° CELSIUS, UNLESS PROVISIONS ARE MADE FOR HEATING THE MATERIALS AND PROTECTING THE WORK.
- SET BASE PLATES ON MASONRY ON MIN. 25MPa NON-SHRINK GROUT FOR LEVELING.
- FIRST COURSE OF MASONRY TO BE LAID IN A FULL BED OF MORTAR. ALL OTHER COURSES TO BE LAID WITH MORTAR AT FACE SHELL BED AND HEAD JOINTS.

CONCRETE BLOCK MASONRY COMPRESSIVE STRENGTH (MPa)			
LOCATION	NET	GROSS (f'm) FOR HOLLOW BLOCK	GROSS (f'm) FOR SOLID OR GROUTED BLOCK
TYP. ALL CONCRETE BLOCK	15	9.8	7.5

- POCKETS FOR STEEL BEAMS AND JOISTS SHALL BE GROUTED SOLID AND THE WALL MADE GOOD AFTER

INSPECTIONS AND TESTING

- THE FOLLOWING ITEMS SHALL BE INSPECTED OR TESTED BY INDEPENDENT INSPECTION/ TESTING AGENCIES DESIGNATED BY THE CLIENT. MATERIALS AND WORKMANSHIP NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REJECTED BY THE CONTRACTOR. REPORTS AND TEST RESULTS SHALL BE PROMPTLY SUBMITTED TO THE ENGINEER FOR REVIEW. TESTING SHALL INCLUDE BUT NOT BE LIMITED TO:

CONCRETE

- CONCRETE AND GROUT TESTING IN ACCORDANCE WITH CSA A23.2 LATEST EDITION AND THE SPECIFICATIONS, INCLUDING THE REQUIREMENTS OF SLUMP, AIR AND AGE PRIOR TO BEING USED. CONTRACTOR TO KEEP RECORDS OF POUR DATES, TESTING PERFORMED, CLASS OF CONCRETE USED AND TEST RESULTS FOR ALL ITEMS POURED.
- TESTING TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE FOR EARLY FORM REMOVAL PURPOSES WITH THE TYPE OF TEST BEING DETERMINED ON THE ADVICE OF THE TESTING AGENCY. REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE MADE BY THE CONTRACTOR AT NO EXPENSE TO THE OWNER.
- APPROVAL OF CONCRETE AND MORTAR MIX DESIGNS.
- TESTING AS REQUIRED AND SPECIFIED BY THE ENGINEER TO DETERMINE THE IN-SITU STRENGTH OF CONCRETE WHICH FAILS TO MEET THE SPECIFIED REQUIREMENTS OR WHICH, DUE TO APPEARANCE, DAMAGE OR DEFECTS MAY BE DEEMED REJECTABLE. CORES SHALL BE ACQUIRED AND TESTED BY THE DESIGNATED TESTING AGENCY BUT ANY REPAIRS NECESSARY TO THE STRUCTURE AS A RESULT OF THESE TESTS SHALL BE PERFORMED AT NO COST TO THE OWNER.

ENGINEERED MASONRY TEST

- TESTS TO VERIFY STRENGTH OF GROUT AND MORTAR.

STRUCTURAL STEEL

- VISUAL INSPECTION OF ALL WELDS, TORQUE TESTING OF BOLTED CONNECTIONS AND CHECK ON BEARING, PLUMBNESS AND ALIGNMENT OF STEEL STRUCTURES.
- NON-DESTRUCTIVE TESTING TO VERIFY THE QUALITY OF WELDING, WHERE DEEMED QUESTIONABLE BY VISIBLE DEFECTS OR WHERE REQUIRED BY THE ENGINEER.

REINFORCING STEEL

- CONTRACTOR SHALL ADVISE BARRY BRYAN ASSOCIATES (1991)LTD. OF REQUIRED REINFORCING STEEL INSPECTIONS AT LEAST 24 HOURS PRIOR TO CLOSING OF COLUMN OR WALL FORMS AND 24 HOURS PRIOR TO PLACING OF CONCRETE IN SLABS, FOOTINGS, ETC.

SHOP DRAWINGS AND SUBMITTALS

GENERAL

- SEPAIS OR REPRODUCTIONS OF THE STRUCTURAL DRAWINGS SHALL NOT BE ACCEPTED AS SHOP DRAWINGS. "PROFESSIONAL ENGINEER" IN THE FOLLOWING PARAGRAPHS SHALL BE REGISTERED AND LICENSED TO PRACTICE IN THE PROVINCE OF ONTARIO.
- REVIEW OF DRAWINGS APPLIES TO GENERAL ARRANGEMENT ONLY FOR THE PURPOSE OF ASCERTAINING CONFORMANCE WITH THE GENERAL DESIGN CONCEPT. THIS REVIEW DOES NOT IMPLY APPROVAL OF DETAIL DESIGN OR QUANTITIES IN SUBMITTED DRAWINGS, NOR DOES IT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR MAKING THE WORK COMPLETE, ACCURATE AND IN ACCORDANCE WITH THE STRUCTURAL DRAWINGS. ALLOW 10 WORKING DAYS FOR SHOP DRAWING REVIEW.
- DO NOT FABRICATE MATERIALS BASED ON REJECTED OR DISAPPROVED SHOP DRAWINGS.
- SHOP DRAWING SUBMITTALS SHALL ALSO INCLUDE CLADDING CONNECTION DETAILS, STAIR DETAILS, SAFETY GUARDS, AND ANY ELEMENTS DESIGNED BY THE CONTRACTOR'S FORCES WHICH SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH N.B.C. SECTIONS 2.3.4.4 AND 2.3.4.5 LATEST EDITIONS.

REINFORCED CONCRETE

- SUBMIT FOR REVIEW 2 COPIES AND 1 SEPIA OF REINFORCEMENT PLACING DRAWINGS AND BARLISTS FOR EVERY PORTION OF THE STRUCTURE. SHOW WALLS IN FULL ELEVATION. SHOW SLABS WITH REINFORCING STEEL CALLED UP DIRECTLY ON PLAN.
- PROVIDE DETAILS OF DESIGN AND CONSTRUCTION OF FORMS AND FALSEWORK, SHORING AND RESHORING AND ANY SPECIAL REQUIREMENTS FOR STRIPPING OF FORMWORK. ALL SUCH DESIGN SHEETS SHALL BE PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER.
- SUBMIT FOR REVIEW ALL PROPOSED CONCRETE MIX DESIGNS. SUBMIT AT LEAST 15 WORKING DAYS PRIOR TO START OF WORK.
- SUBMIT FOR REVIEW DRAWINGS OF ALL PROPOSED CONSTRUCTION JOINTS, LOCATIONS, AND LAYOUT DRAWINGS OF CONCRETE ISOLATION AND HOUSEKEEPING PADS.
- REGULARLY SUBMIT REPORTS OF ALL CONCRETE TESTING AS SOON AFTER TESTING IS PERFORMED AS POSSIBLE.

MASONRY

- SUBMIT EVIDENCE OF MORTAR AND GROUT STRENGTH.

RECORD DRAWINGS

- GENERAL CONTRACTOR SHALL MAINTAIN TWO SETS OF RECORD DRAWINGS WHICH SHOW AS-BUILT DETAILS OF ALL ASPECTS OF THE STRUCTURE, FOR REVIEW DURING CONSTRUCTION AND FOR SUBMISSION AT THE END OF THE PROJECT.
- S101 GENERAL NOTES & DRAWING LIST
- S102 TYPICAL DETAILS & UNTEL SCHEDULE
- S201 SITE PLAN & PART FIRST FLOOR FRAMING PLANS
- SS01 ELEVATOR SECTIONS
- SS02 STAIR SECTIONS

STRUCTURAL DRAWING LIST

S101 GENERAL NOTES & DRAWING LIST

S102 TYPICAL DETAILS & UNTEL SCHEDULE

S201 SITE PLAN & PART FIRST FLOOR FRAMING PLANS

SS01 ELEVATOR SECTIONS

SS02 STAIR SECTIONS

DO NOT SCALE THE DRAWINGS.

CHECK AND VERIFY ALL DIMENSIONS AT THE SITE.

ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS ARE THE COPYRIGHT PROPERTY OF THE CONSULTANT AND MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS IN PART OR WHOLE WITHOUT THE PERMISSION OF THE CONSULTANT IS FORBIDDEN.

DRAWINGS ARE NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED AND SEALED BY THE CONSULTANT.



NO.	ISSUES	DATE	BY
1	ISSUED FOR 90% REVIEW	JULY 21, 2025	BBA
2	ISSUED FOR PERMIT & TENDER	AUG. 28, 2025	BBA
3	ISSUED FOR TENDER	SEPT. 02, 2025	BBA

PROJECT:

OTU VESTIBULE NEW ELEVATOR RENEWAL

61 Charles Street
Oshawa, ON L1H 4X8

ONTARIO TECH UNIVERSITY

DRAWING:

GENERAL NOTES & DRAWING LIST



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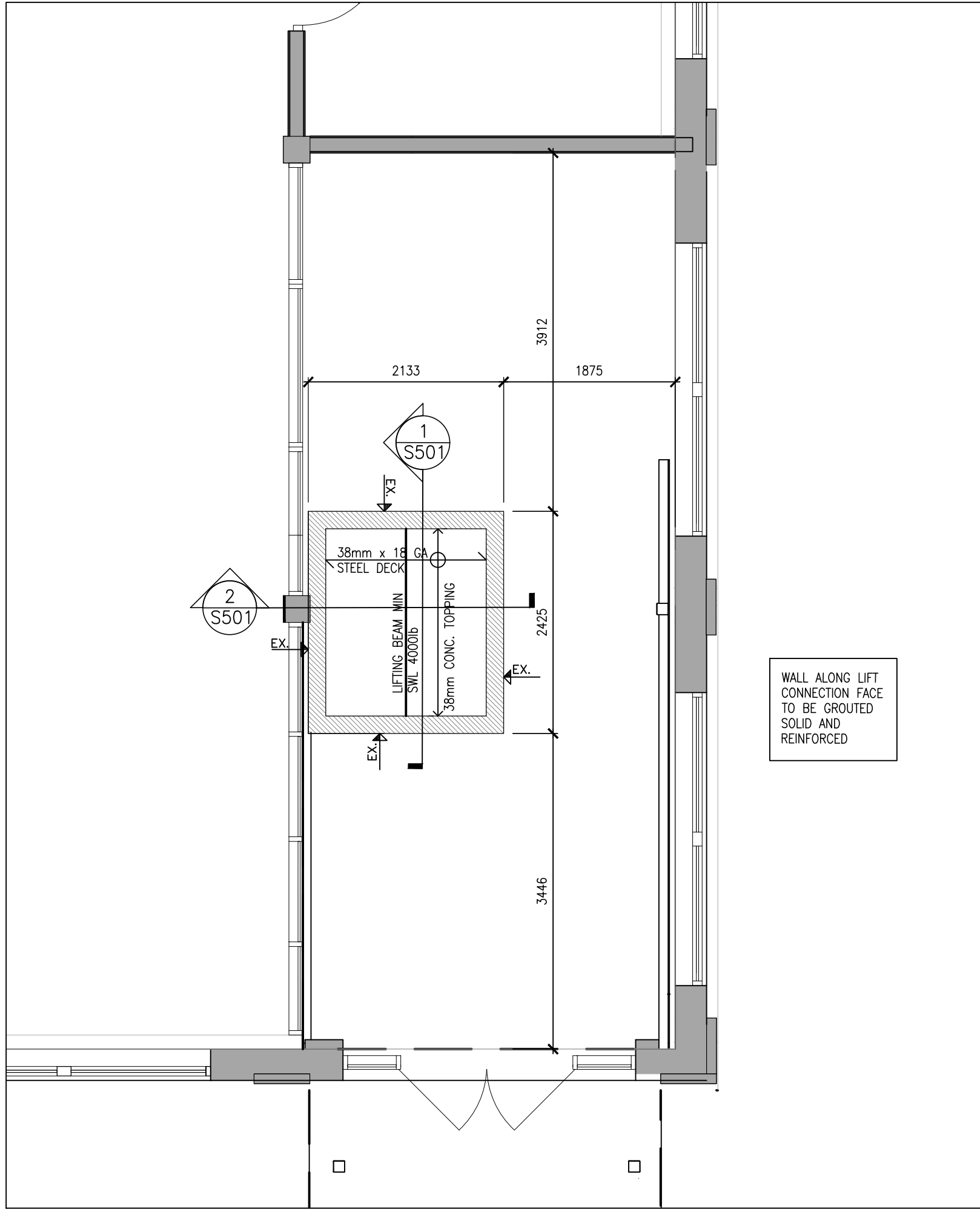
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BBA

DOC. CONTROL:
DATE:



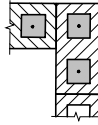
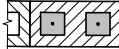
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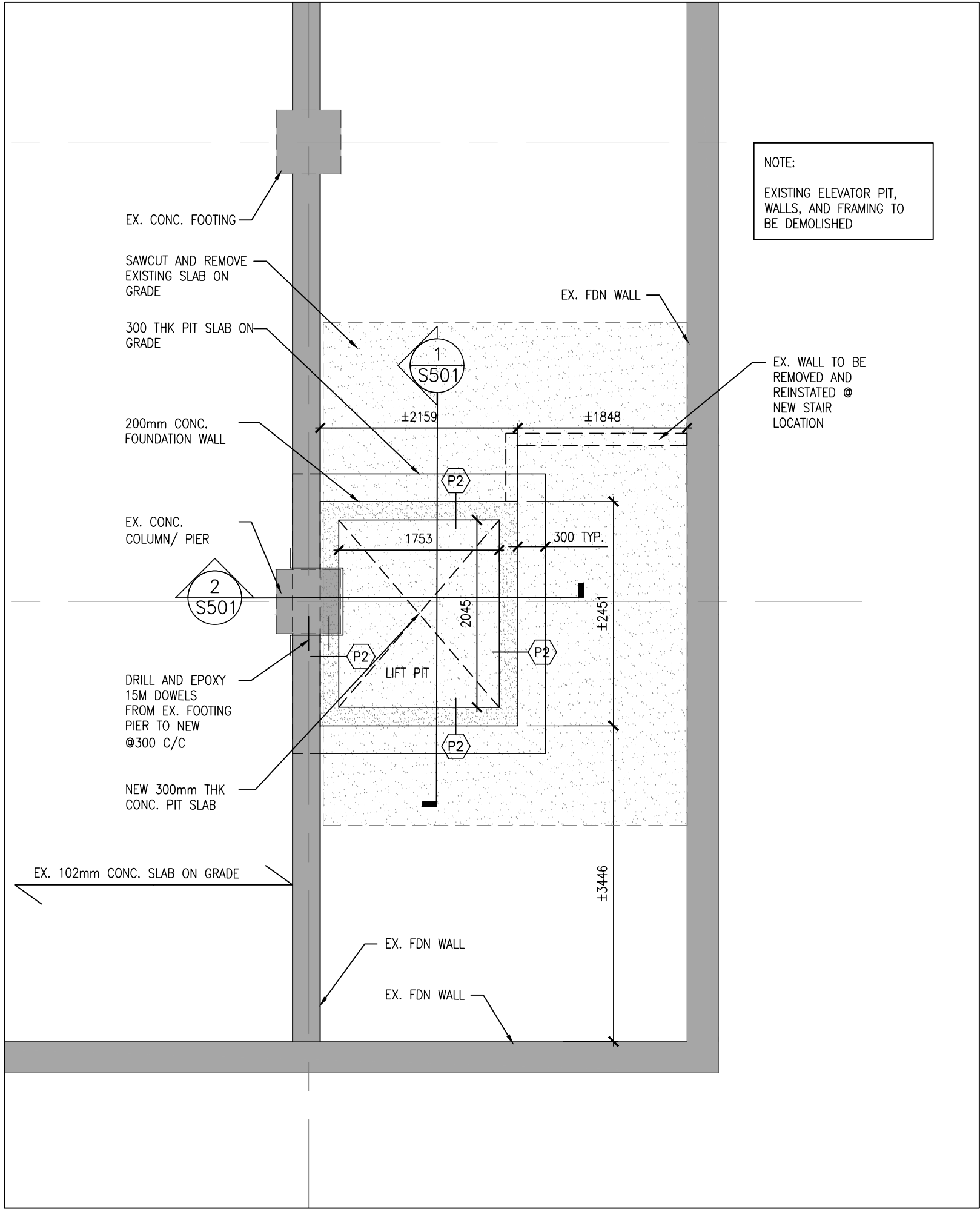
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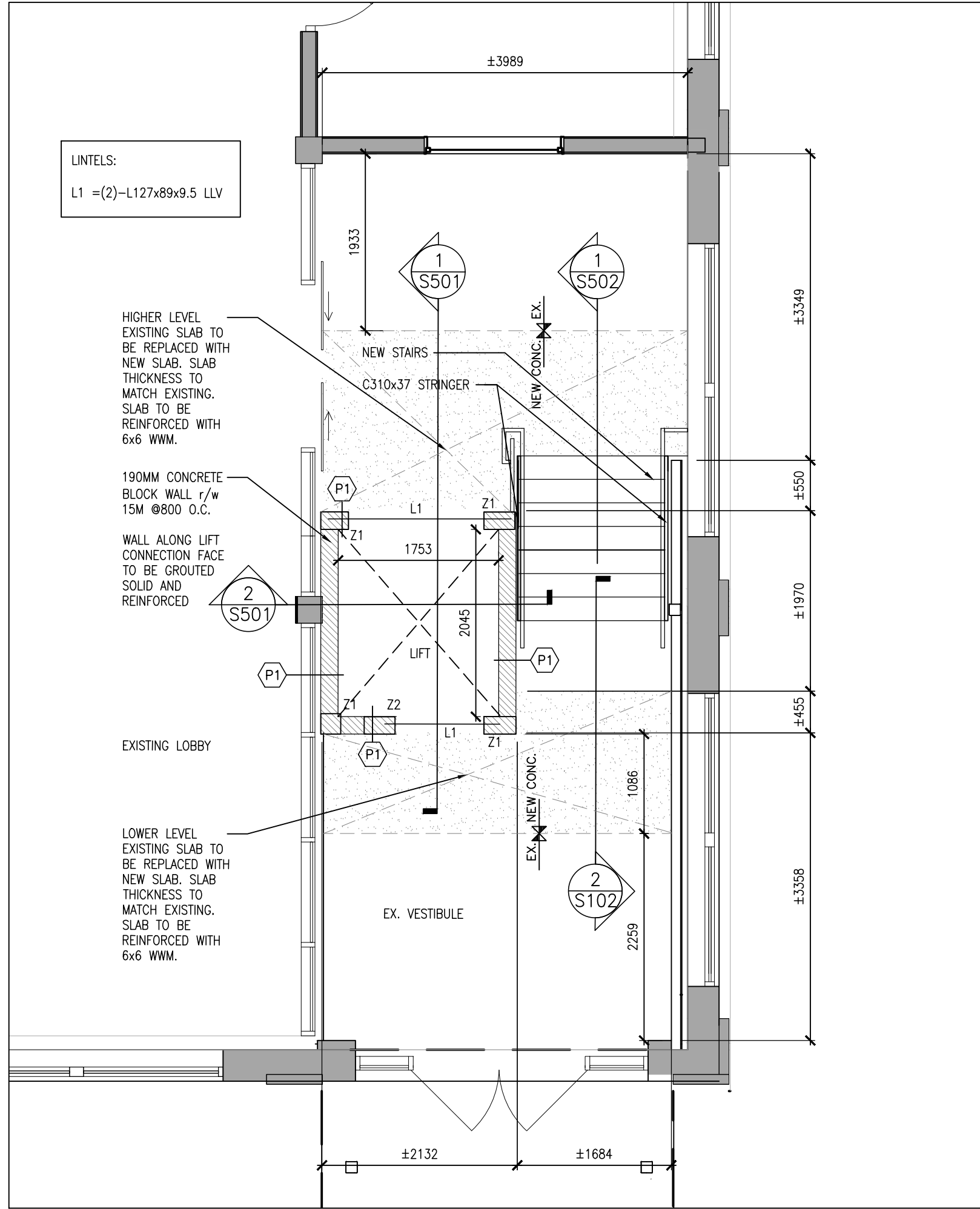


4 PART FRAMING CEILING PLAN
S201 1:50

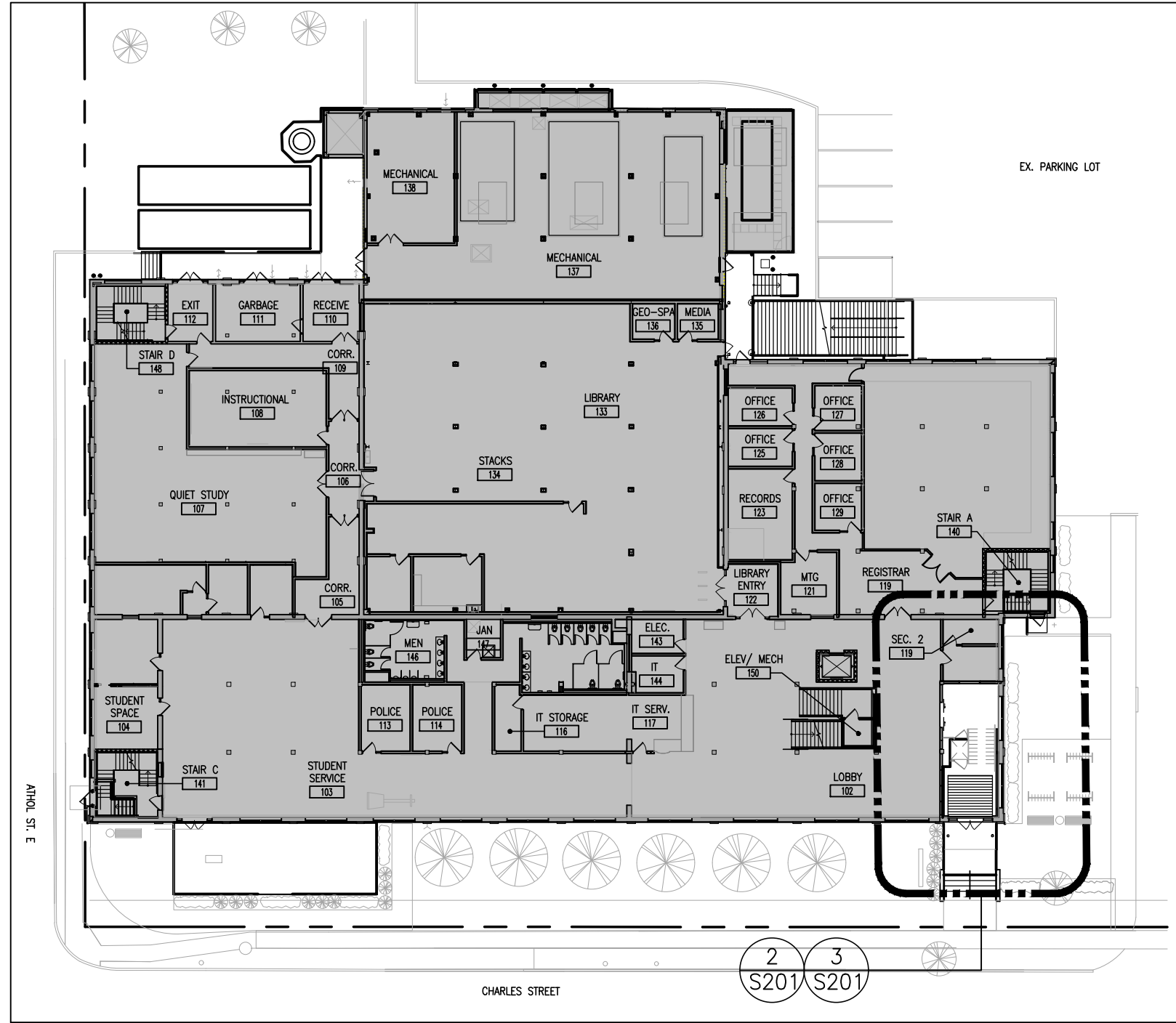
WALL TYPES			
	(P1)	190mm THK CONCRETE BLOCK	
	(P2)	200mm THK CONCRETE FOUNDATION WALL	
ZONE REINFORCEMENT SCHED			
MARK	REINFORCING	DETAIL	REMARKS
Z1	3-15M VERT		GROUT SOLID REINFORCED CELLS
Z2	2-15M VERT		GROUT SOLID REINFORCED CELLS
1. REINFORCED ZONES SHALL BE GROUTED SOLID.			



3 PART FRAMING FOUNDATION PLAN
S201 1:50



2 PART LOWER LEVEL FRAMING PLAN
S201 1:50



1 SITE PLAN
S201 1:400

DESIGN LOADS

STAIRS	
DEAD LOAD (SELF WEIGHT)	4.8 kPa
LIVE LOAD	4.8 kPa
GUARD LOAD	PER LATEST O.B.C.

DO NOT SCALE THE DRAWINGS.
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NO.	ISSUES	DATE	BY
1	ISSUED FOR 30% REVIEW	MAY 26, 2025	BBA
2	ISSUED FOR 60% REVIEW	JUNE 27, 2025	BBA
3	ISSUED FOR 90% REVIEW	JULY 21, 2025	BBA
4	ISSUED FOR PERMIT & TENDER	AUG. 28, 2025	BBA
5	ISSUED FOR TENDER	SEPT. 02, 2025	BBA

NO.	REVISIONS	DATE	BY
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PROJECT:

OTU VESTIBULE NEW ELEVATOR RENEWAL

61 Charles Street
Oshawa, ON L1H 4X8
ONTARIO TECH UNIVERSITY

DRAWING:

SITE PLAN & PART FIRST FLOOR FRAMING PLANS



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DOC CONTROL: DATE:

DRAWN BY: SA

% COMPLETE:

CHECKED BY:

INITIAL:

DATE: MAY, 2025

SCALE: 1:50

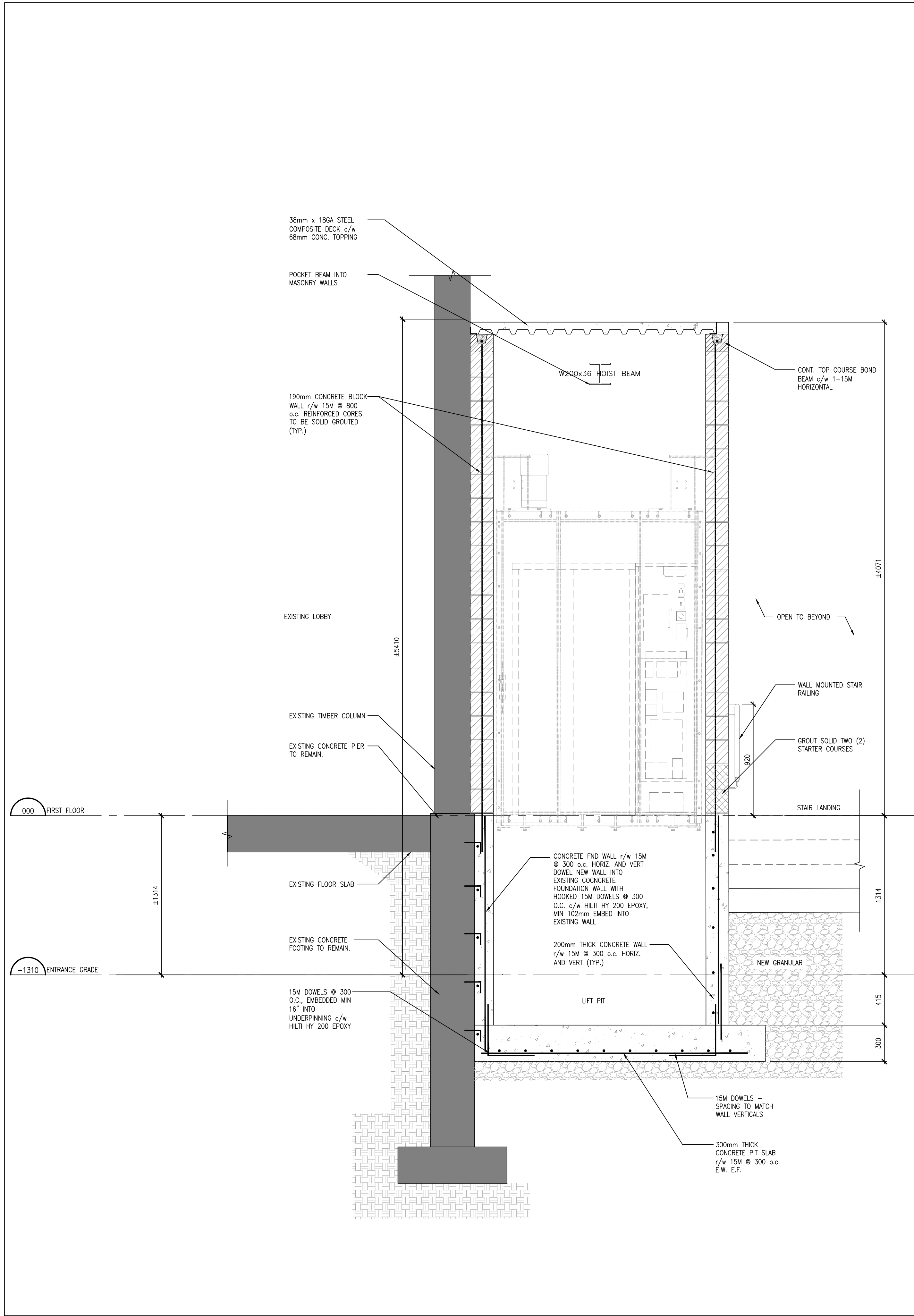
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PROJECT NO:

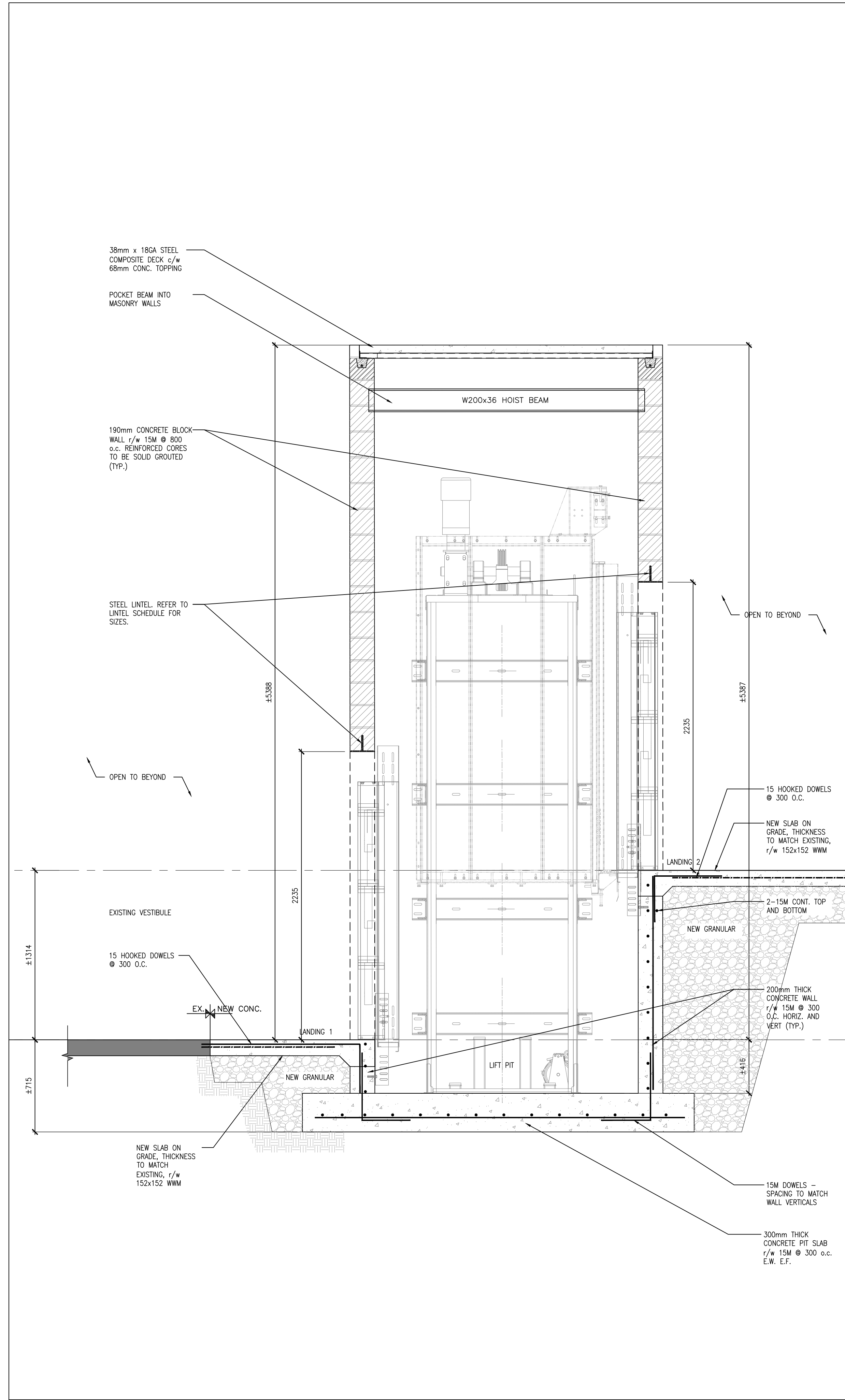
24155.1

DRAWING NO:

S201



2 ELEVATOR SECTION
S501 1:20



1 ELEVATOR SECTION
S501 1:20

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NO.	REVISIONS	DATE	BY
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PROJECT:
**OTU VESTIBULE NEW
ELEVATOR RENEWAL**

61 Charles Street
Oshawa, ON L1H 4X8
ONTARIO TECH UNIVERSITY

DRAWING:
ELEVATOR SECTIONS



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DRAWN BY: SA	% COMPLETE:
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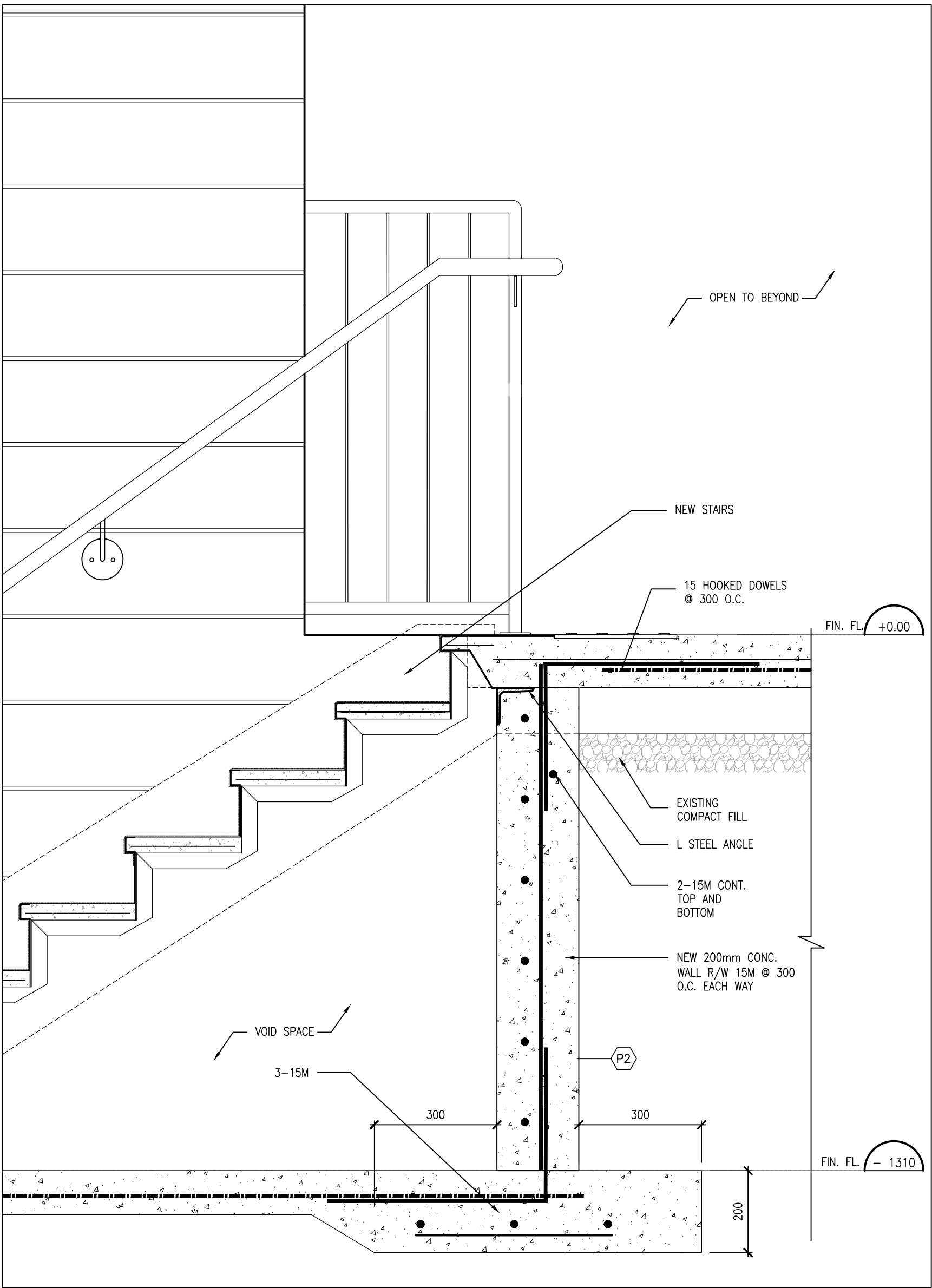
DATE: MAY, 2025
SCALE: 1:50
FILE:

PROJECT NO:

24155.1

DRAWING NO:

S501



1
S502

STAIR SECTION
1:10

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PROJECT:
**OTU VESTIBULE NEW
ELEVATOR RENEWAL**

61 Charles Street
Oshawa, ON L1H 4X8
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DRAWING:
STAIR SECTIONS



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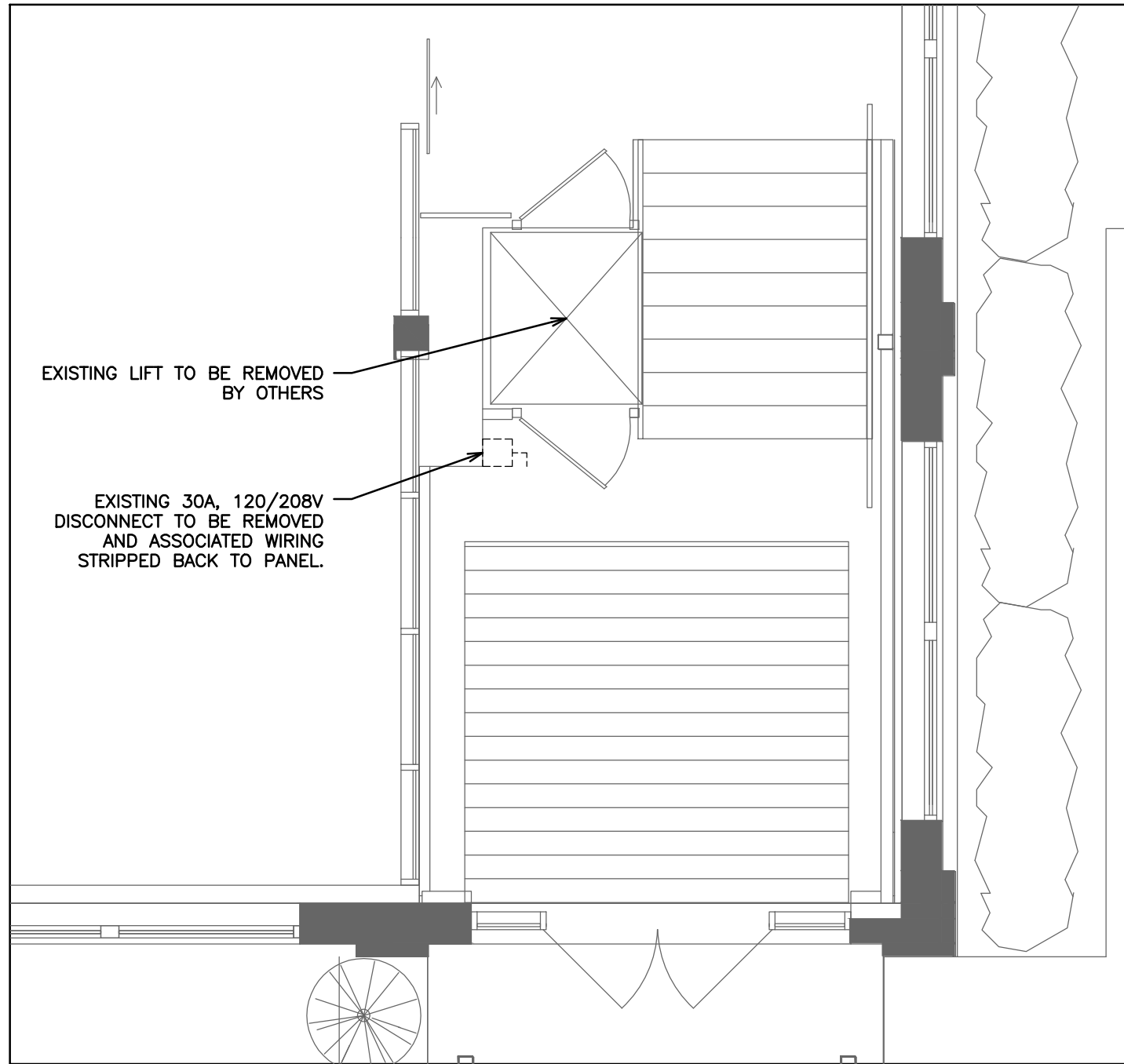
DATE: MAY. 2025
SCALE: 1:50
FILE:

PROJECT NO:

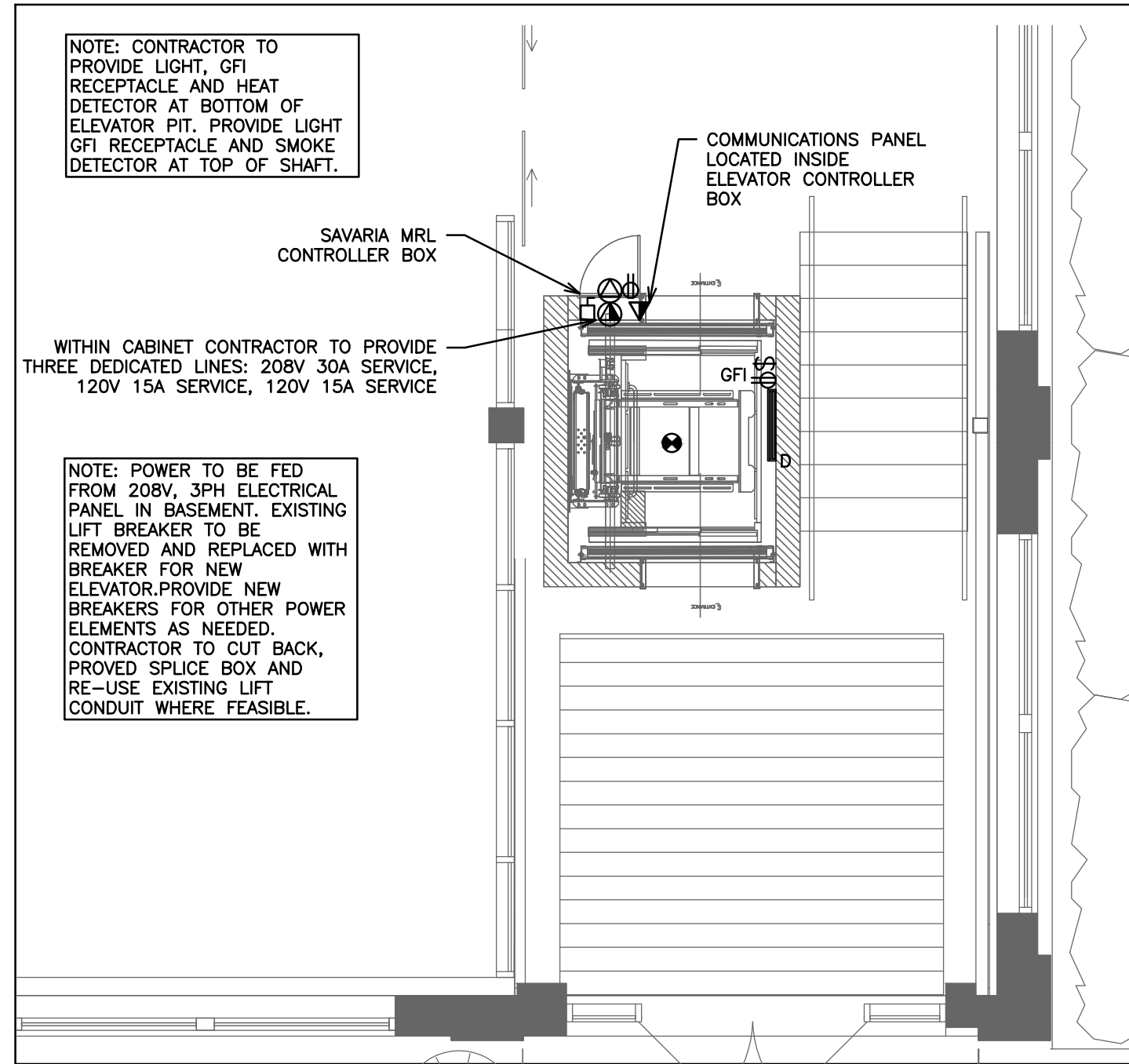
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DRAWING NO:

S502



1 GROUND FLOOR-DEMO PLAN
E1 SCALE: 1:50

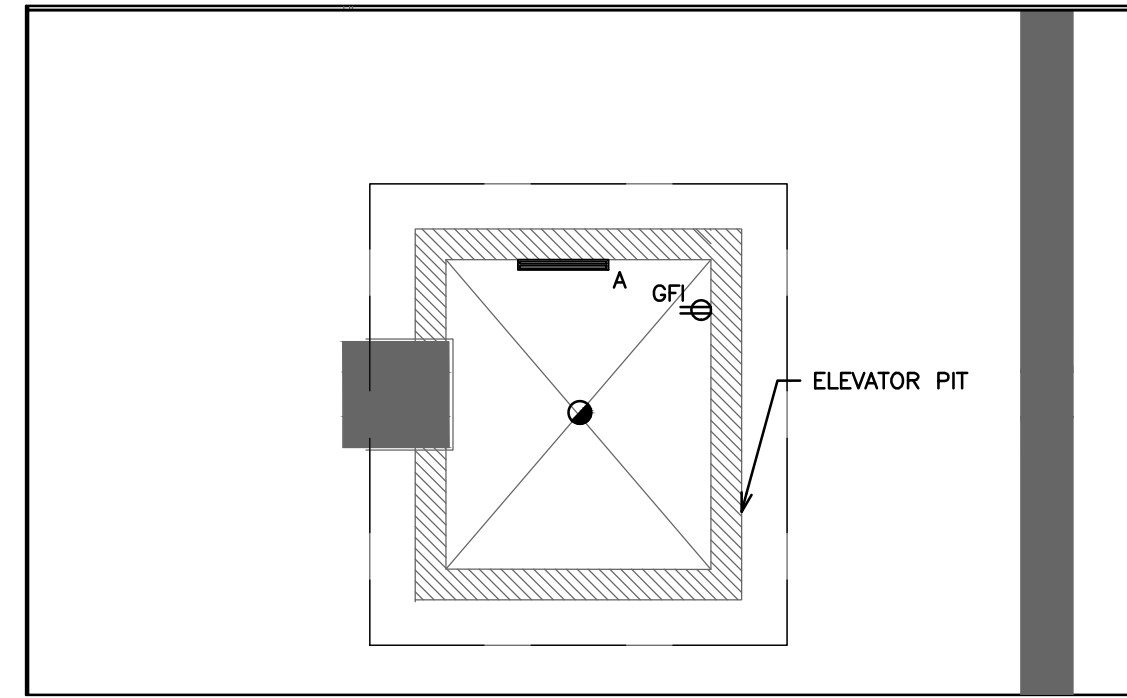


2 GROUND FLOOR- PROPOSED ELEVATOR
E1 SCALE: 1:50

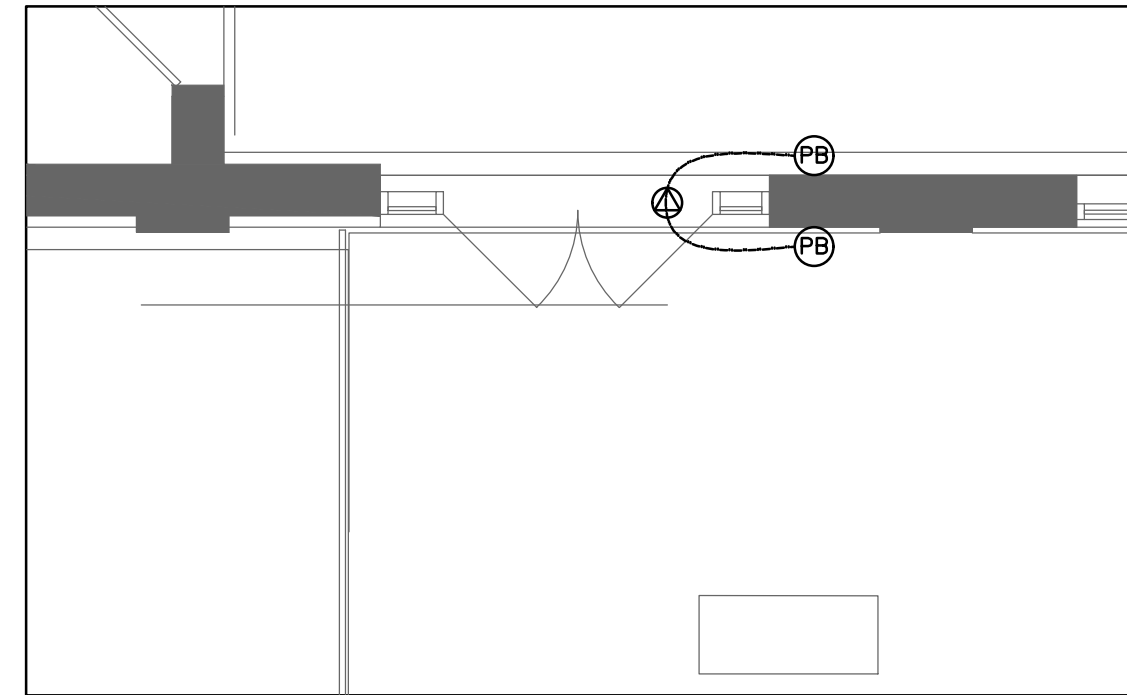
NOTE: TENDERING OF THESE DOCUMENTS IS DONE UNDER THE MUTUAL UNDERSTANDING THAT ALL CONTRACTORS ARE EXPERIENCED AND LICENSED IN THE WORKS BEING PROVIDED AND THAT ALL COMPONENTS OF A FULLY FUNCTIONING SYSTEM WILL BE INCLUDED WHETHER SHOWN OR NOT SHOWN BUT IMPLIED FOR A COMPLETE SYSTEM.

NOTE: ALL DETAILS SHOWN ARE SCHEMATIC BY NATURE AND ARE TO BE USED FOR SCOPE OF WORK PURPOSES ONLY. COORDINATE WITH ALL TRADES AND MANUFACTURERS BEST PRACTICES AND DIRECTIONS.

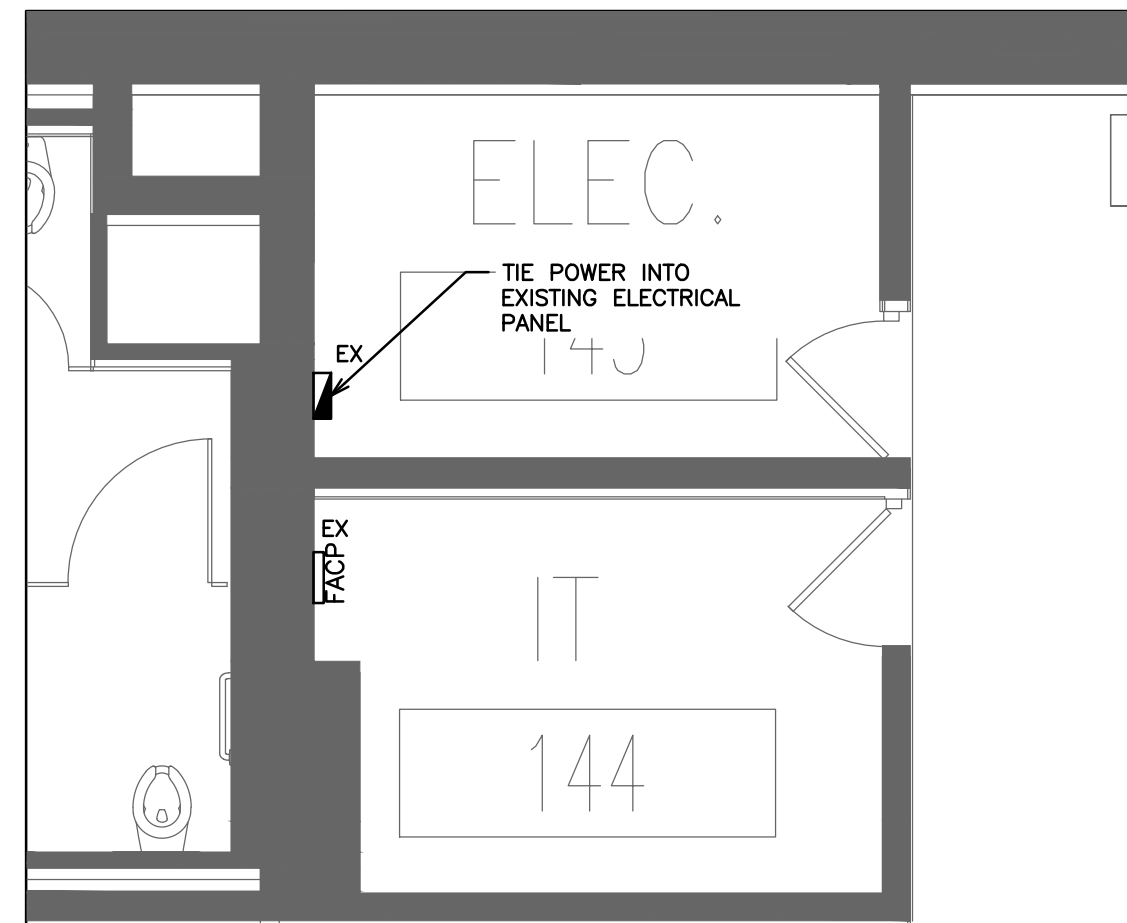
LIGHTING SCHEDULE					
SYMBOL	MANUFACTURER	DESCRIPTION	CCT	WATTAGE	MODEL
	LITHONIA	VAPOR TIGHT LED STRIP LIGHT	4000K	34W	CSVT L48 4000LM MVOLT 40K 80CRI



3 BASEMENT- PROPOSED ELEVATOR PIT
E1 SCALE: 1:50



4 GROUND FLOOR- PROPOSED TEMPORARY ENTRANCE
E1 SCALE: 1:50



5 GROUND FLOOR- PANEL LOCATIONS
E1 SCALE: 1:50

LIGHTING LEGEND	
	SINGLE POLE, SINGLE THROW TOGGLE SWITCH, ONE, TWO, OR THREE GANGED (3'-WAY)
	LITHONIA 4' VAPOR TIGHT LED STRIP LIGHT

POWER & FIRE ALARM LEGEND	
	RECEPTACLE
	ELECTRICAL DISCONNECT
	ELECTRICAL PANEL
	COMMUNICATIONS PANEL
	GROUND FAULT RECEPTACLE
	HEAT DETECTOR
	SMOKE DETECTOR
	120V POWER SUPPLY
	208V POWER SUPPLY
	VOICE, DATA COMBO
	PUSH BUTTON
	WIRING
	FIRE ALARM CONTROL PANEL

GENERAL ELECTRICAL NOTES

- GENERAL:
 - ARRANGE FOR ESA INSTALLATION PERMIT AND INSPECTION AND FORWARD A COPY OF THE ESA CERTIFICATE TO THE ENGINEER UPON ACCEPTANCE.
 - ENSURE THAT ALL ELECTRICAL EQUIPMENT SUPPLIED BY OTHER TRADES IS SUITABLE FOR THE RESPECTIVE VOLTAGE. CONFIRM POWER REQUIREMENTS OF ALL OWNER SUPPLIED EQUIPMENT.
 - ALL CUTTING AND PATCHING REQUIRED FOR THE WORK OF THIS DIVISION SHALL BE CARRIED OUT Y THIS DIVISION. NO CHASING BLOCKWORK WILL BE ALLOWED. BE RESPONSIBLE AND PAY FOR ANY DAMAGE TO THE BUILDING INCURRED BY WORK OF THIS DIVISION.
 - SUBMIT 4 COPIES OF SHOP DRAWINGS FOR REVIEW AND RECORDS.
 - ALL MATERIALS USED THROUGHOUT SHALL BE NEW, OF BEST QUALITY C.S.A. APPROVED AND OF ONE MANUFACTURE, WHEREVER TRADE NAMES ARE NOT USED TO DESCRIBE MATERIALS, THESE MATERIALS SHALL BE OF BEST AVAILABLE QUALITY AND MANUFACTURE, OBTAIN AND PAY FOR SPECIAL HYDRO INSPECTION OF SPECIFIED NON-C.S.A. ELECTRICAL EQUIPMENT.
 - PROVIDE ALL CONDUIT, WIRING, BOXES, SWITCHES, OUTLETS, DEVICES, ETC., AS REQUIRED, MAKE FINAL CONNECTIONS TO VIBRATING EQUIPMENT WITH FLEXIBLE CONDUIT.
 - PROVIDE ALL HANGERS, INSERTS AND SUPPORTS OF APPROVED TYPES REQUIRED FOR THE WORK OF THIS DIVISION. PROVIDE CONDUIT FOR ALL SERVICES PENETRATING THE FLOOR SLAB. SEAL ALL PENETRATIONS THROUGH FLOOR SLABS WITH AN APPROVED NON-SHRINK, WATERPROOF AND FIREPROOF SEALANT APPROVED BY ARCHITECT. NO CONDUITS OR EQUIPMENT SHALL BE MOUNTED DIRECTLY FROM ROOF DECK. PROVIDE ALL NECESSARY UNISTRUT OR OTHER MOUNTING DETAILS TO ENABLE SUPPORT FROM TOP CHORD OF JOISTS.
 - ALL CONDUIT SHALL BE RIGID STEEL THICK WALLED OR EMT THINWALL WITH STEEL SET SCREW COUPLINGS AND CONNECTORS WITH INSULATED THROATS UNLESS OTHERWISE NOTED. EXPOSED CONDUITS AND WIREMOLD CHANNELS SHALL BE NEAT IN APPEARANCE, RUN PARALLEL TO BUILDING LINES AND CONCENTRIC RIGHT ANGLE BENDS ONLY SHALL BE USED.
- MATERIALS:
 - COVER PLATES:
 - COVER PLATES FOR RECEPTACLES, SWITCHES, PILOT LIGHTS, TELEPHONE OUTLETS AND OTHER DEVICES REQUIRING COVER PLATES FOR FLUSH MOUNTED BOXES SHALL BE METAL STAINLESS STEEL #18-8, TYPE 302, UNLESS OTHERWISE NOTED.
 - WEATHERPROOF COVER PLATES SHALL BE DIECAST CORROSION RESISTANT ALUMINUM TYPE WITH TWO SEPARATE LIDS FOR DUPLEX RECEPTACLES SUITABLE FOR MOUNTING ON F.S. TYPE BOXES. ALL WEATHERPROOF COVER PLATES SHALL HAVE RUBBER OR NEOPRENE GASKETS.
 - PLATES FOR SURFACE MOUNTED CAST BOXES SHALL BE GALVANIZED FORMED STEEL TYPE. COVER PLATES FOR FLUSH MOUNTED EQUIPMENT SHALL BE SUPPLIED OF QUALITY AND PERFORMANCE SPECIFIED BY THE MANUFACTURER OF THE EQUIPMENT.
 - COVER PLATES SHALL NOT CARRY MANUFACTURER'S NAME. COVER PLATES OF QUALITY SPECIFIED SHALL BE PASS & SEYMOUR, BRYANT LEVITON, SMITH & STONE OR HARVEY HUBBELL.
 - LIGHT SWITCHES:
 - SWITCHES SHALL BE, UNLESS OTHERWISE INDICATED, BRYANT QUIET TYPE WITH WHITE SPECIFICATION GRADE FOR 120V AND HEAVY DUTY GRADE FOR 347V. LIGHT SWITCHES OF QUALITY AS MANUFACTURED BY BRYANT, P & S, ARROW HART, LEVITON AND HUBBELL SHALL BE CONSIDERED AS ACCEPTABLE AS SPECIFIED ALTERNATES.
 - RECEPTACLES:
 - RECEPTACLES SHALL BE, UNLESS OTHERWISE INDICATED, U GROUND TYPE, WHITE SCREW TERMINAL TYPE. RECEPTACLES SHALL BE SPECIFICATION GRADE.
 - CONFIRM ALL LOCATIONS AND OUTLETS PRIOR TO INSTALLATION. ALLOW TO RELOCATE ANY OUTLET WITHIN 10'-0" OF SPECIFIED LOCATION, PRIOR TO INSTALLATION. PROVIDE ALL CONCRETE WORK REQUIRED FOR ELECTRICAL WORK IN ACCORDANCE WITH ARCHITECTURAL DIVISION OF SPECIFICATION.
- DISCONNECTS:
 - DISCONNECT SWITCHES FOR HVAC EQUIPMENT MUST BE INSTALLED WITHIN 10'.
 - MOTORS OTHER THAN AIR CONDITIONERS MUST HAVE DISCONNECT WITHIN SIGHT AND 30' OF THE MOTOR AND/OR STARTER.
- CONDUITS:
 - EMT (ELECTRICAL METALLIC TUBING) MUST BE USED IN THE FOLLOWING INDOOR APPLICATIONS:
 - ALL EXPOSED AREAS (USE WIREMOLD ON EXPOSED WALLS IN FINISHED AREAS WHERE EXPOSED WIRING HAS BEEN APPROVED).
 - 1-BAR CEILING SPACES
 - ATTIC SPACES
 - CRAWL SPACES
 - LIQUIDTIGHT MUST BE USED IN THE FOLLOWING INDOOR AND OUTDOOR APPLICATIONS:
 - LAST 5' FOR FINAL CONNECTION TO INDOOR MECHANICAL EQUIPMENT
 - ALL OUTDOOR WIRING
 - FLEXIBLE CABLE IS ONLY ACCEPTABLE IN THE FOLLOWING INDOOR APPLICATIONS:
 - LAST 5' FOR FINAL CONNECTION TO LIGHTING AND SMALL EQUIPMENT/COMPONENTS IN CEILING SPACES
 - CONCEALED IN DRYWALL WALLS AND DRYWALL CEILINGS THROUGH HOLES IN CONCRETE, BRICKS OR STEEL STUDS PROVIDED IT IS NOT SUBJECT TO MECHANICAL DAMAGE.
 - ROMEX IS AN ACCEPTABLE ALTERNATE FOR ALL INDOOR WIRING IN WOOD CONSTRUCTION BUILDINGS.
 - WHERE CEILING SPACE IS USED AS A RETURN AIR PLENUM, ALL WIRING SHALL CONFORM TO CODES FOR THIS APPLICATION.

GENERAL REQUIREMENTS FOR ELECTRICAL WORK

- SCOPE OF WORK
 - CONFORM TO ALL DRAWINGS RELATED TO THIS PROJECT.
 - COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE O.B.C., ALL OTHER APPLICABLE CODES, REGULATIONS, BY-LAWS AND OFFICIAL STANDARDS ACCORDING TO THE REQUIREMENTS AND INTERPRETATIONS OF THE AUTHORITIES HAVING JURISDICTION. THESE CODES AND STANDARDS CONSTITUTE AN INTEGRAL PART OF THESE SPECIFICATIONS. IN CASE OF CONFLICT, THE CODES TAKE PRECEDENCE OVER THE CONTRACT DOCUMENTS.
- EXAMINATION OF SITE AND INFORMATION
 - EACH SUBCONTRACTOR, BEFORE TENDERING, SHALL EXAMINE THE SITE, THE ARCHITECTURAL, STRUCTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS AND THEY SHALL FAMILIARIZE THEMSELVES WITH THE BUILDING CONSTRUCTION AND FINISH IN ORDER THAT THEIR TENDER MAY INCLUDE EVERYTHING NECESSARY FOR THE PROPER COMPLETION OF THE WORK. IT SHALL BE THIS SUBCONTRACTOR'S RESPONSIBILITY TO NOTE THAT MATERIAL AND EQUIPMENT BE BROUGHT INTO THE BUILDING IN SUCH ASSEMBLIES AND SIZES AS TO ENTER INTO THE SPACE WHERE THEY ARE TO BE LOCATED AND TO BE SMALL ENOUGH TO BE HOISTED INTO THE BUILDING WITHOUT DIFFICULTY. ANY CUTTING, PATCHING, ETC., INVOLVED IN GETTING LARGE ASSEMBLIES INTO PLACE, SHALL BE THE RESPONSIBILITY OF THE SUBCONTRACTOR.
- RELATIONSHIP TO OTHER TRADES
 - THIS SUBCONTRACTOR SHALL CONFER WITH ALL OTHER CONTRACTORS INSTALLING EQUIPMENT, PIPING, OTHER WORK, FOUNDATIONS, ETC., WHICH MAY AFFECT THEIR INSTALLATION, AND THEY SHALL ARRANGE THEIR EQUIPMENT, PIPING, ETC., IN PROPER RELATION WITH OTHER APPARATUS, AND WITH BUILDING CONSTRUCTION. THIS SUBCONTRACTOR SHALL ALSO CONFIRM THE ELECTRICAL CHARACTERISTICS OF THE PROJECT AND ORDER EQUIPMENT ACCORDINGLY.
 - SPECIAL CARE SHALL BE TAKEN IN THE INSTALLATION OF ALL WORK, TO SEE THAT THEY ALL COME WITHIN THE LIMITS ESTABLISHED BY THE FINISH LINES OF ALL WALLS, FLOORS, CEILINGS, ETC.
- SHOP DRAWINGS
 - EACH SUBCONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ARCHITECT FOR REVIEW OF MATERIAL, EQUIPMENT, AND APPARATUS BEING PROVIDED BY THEM. THESE SHALL SHOW IN DETAIL THE DESIGN AND CONSTRUCTION AND PERFORMANCE OF ALL APPARATUS, ETC.
 - THE ENGINEER'S REVIEW OF SHOP DRAWINGS AND MANUFACTURER'S SPECIFICATIONS OF ANY EQUIPMENT IS GENERAL AND IS NOT INTENDED TO SERVE AS A FINAL CHECK AND IT SHALL NOT RELIEVE THE SUBCONTRACTOR OF THE RESPONSIBILITY FOR ERRORS OR OF THE NECESSITY OF CHECKING THE DRAWINGS THEMSELVES, OR OF FURNISHING ANY OF THE MATERIALS AND PERFORMING THE WORK REQUIRED BY THE DRAWINGS AND SPECIFICATIONS TO THE FULL INTENT OF THIS SPECIFICATION.
 - BEFORE SUBMISSION, THIS SUBCONTRACTOR SHALL CHECK ALL SHOP DRAWINGS FOR ACCURACY OF DETAILS, DIMENSIONS, ETC., AND SHALL BE SATISFIED THAT THE DRAWINGS ARE CORRECT AND THAT THE EQUIPMENT WILL FIT PROPERLY IN THE ALLOTTED SPACE. THE SHOP DRAWINGS SHALL BE STAMPED BY THIS SUBCONTRACTOR WITH THE WORD 'REVIEWED', THE DATE OF APPROVAL, AND THE FIRM'S NAME PRIOR TO SUBMISSION.
- REQUIREMENTS OF INSPECTION DEPARTMENTS
 - ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH ALL LAWS AND REGULATIONS OF ALL AUTHORITIES HAVING JURISDICTION IN EACH CASE, PARTICULARLY ALL AFFECTED DEPARTMENTS OF THE MUNICIPALITY AND PROVINCE. ELECTRICAL EQUIPMENT SUPPLIED MUST CONFORM TO THE REGULATIONS OF CSA AND THE LOCAL ELECTRICAL CODES. ALL INSULATED SLEEVES, ANCHORS, ETC. FAILURE TO COMPLY WITH THESE REQUIREMENTS ON THE PART OF THIS SUBCONTRACTOR WILL RENDER THEM RESPONSIBLE FOR THE COST OF CUTTING OPENINGS, INSTALLING HANGERS AND OTHER PROVISIONS AT A LATER DATE, AND THE SUBSEQUENT PATCHING, ETC., THEREBY REQUIRED.
 - NO CUTTING SHALL BE DONE WITHOUT PERMISSION, ALL SUCH WORK SHALL BE DONE BY TRADES-PERSONS SKILLED IN AND CERTIFIED FOR THIS PARTICULAR TRADE.
 - EACH SUBCONTRACTOR IS TO BE AN EXPERT IN THEIR TRADE.
- CERTIFICATES, PERMITS, FEES
 - SUBCONTRACTORS SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL REQUIRED PERMITS AND PAY ALL FEES INCLUDING PAYMENT FOR STREET CONNECTIONS TO STORM, SANITARY, WATER AND GAS IN ORDER THAT THE WORK HEREIN SPECIFIED MAY BE COMPLETED AND WITHOUT DELAY. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY CERTIFICATES AND PERMITS AND SHALL FURNISH ANY CERTIFICATES NEEDED AS EVIDENCE THAT THE WORK INSTALLED CONFORMS WITH THE LAWS AND REGULATIONS OF THE MUNICIPALITY AND PROVINCE.
- GUARANTEE
 - THIS SUBCONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP USED IN THE WORK TO BE IN ACCORDANCE WITH THE SPECIFICATIONS, OF BEST QUALITY AND TYPE OBTAINABLE TO GIVE FIRST-CLASS CONSTRUCTION AND PROPER EFFICIENT OPERATION, AND FREE FROM ANY DEFECTS. ANY SUCH DEFECTS WHICH MAY APPEAR IN ANY OF THE WORK WITHIN ONE YEAR AFTER WRITTEN ACCEPTANCE OF THEIR WORK, SHALL BE REPAIRED AND REPLACED BY THIS SUBCONTRACTOR WITHOUT ADDITIONAL EXPENSE TO THE OWNER. WHERE SUCH DEFECTS OCCUR, THIS SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL COSTS INCURRED IN MAKING THE DEFECTIVE WORK GOOD. THIS SHALL NOT OBSOLETE ANY LONGER WARRANTIES ON SPECIFIC ITEMS OF EQUIPMENT.
 - ALL INJURIES TO ADJACENT WORK, PARTICULARLY PLASTER, WOOD FINISHES OR OTHER MATERIALS, OR DAMAGE TO OTHER EQUIPMENT, CAUSED BY SUCH DEFECTS OF THIS SUBCONTRACTOR'S WORK OR BY SUBSEQUENT REPLACEMENT AND REPAIR, SHALL BE MADE GOOD AT THE EXPENSE OF THIS SUBCONTRACTOR. ALL REPAIR WORK SHALL BE DONE BY TRADES RESPONSIBLE FOR THE ORIGINAL WORK.
- DRAWINGS
 - THE DRAWINGS SHOW THE APPROXIMATE LOCATION FOR SPECIAL APPARATUS AND THE MATERIALS THROUGHOUT THE BUILDING. THE ARRANGEMENT SHOWN ON THE DRAWING IS MORE OR LESS DIAGRAMMATIC AND AS SUCH APPROXIMATE ONLY, AND MAY BE ALTERED, AS APPROVED BY THE ENGINEER, TO MEET REQUIREMENTS OF THE APPARATUS, ETC., AND OF THE BUILDING. EACH SUBCONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL MEASUREMENTS FOR THEIR WORK THROUGHOUT, AND THEY SHALL ARRANGE THEIR PIPING, WIRING AND APPARATUS TO CONFORM TO THE ARCHITECTURAL AND STRUCTURAL DETAILS IN A SATISFACTORY MANNER AND SHALL CO-OPERATE WITH OTHER CONTRACTORS TO ENSURE THAT WORK SHALL MEET ALL REQUIREMENTS OF DIVERSE CONTRACTS.
 - THE SUBCONTRACTOR IS PARTICULARLY CAUTIONED THAT SMALL SCALE ENGINEER'S PLANS MUST BE SUPPLEMENTED BY THEIR OWN DETAIL DRAWINGS WHERE NECESSARY FOR PROPER CO-ORDINATION OF THE WORK.
 - ITEMS SHOWN ON THE DRAWINGS BUT NOT SPECIFIED OR SPECIFIED BUT NOT SHOWN SHALL BE INCLUDED.
 - ITEMS OBVIOUSLY REQUIRED TO PROVIDE A COMPLETE WORKING SYSTEM BUT NOT SPECIFIED NOR SHOWN SHALL BE INCLUDED.

ELECTRICAL DEMOLITION NOTES:

- PRIOR TO DEMOLITION AND REMOVAL OF OLD ELECTRICAL EQUIPMENT, ALL ELECTRICAL DEVICES ARE TO BE DISCONNECTED AND MADE SAFE.
- CONTRACTOR IS RESPONSIBLE FOR ANY REQUIRED TEMPORARY LIGHTING DURING DEMOLITION.
- CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY POWER DURING DEMOLITION.
- CONTRACTOR IS RESPONSIBLE TO VISIT THE SITE PRIOR TO TENDERING TO REVIEW ALL NECESSARY WORK WHETHER SHOWN OR IMPLIED TO COMPLETE DEMOLITION AND GAIN A FULL UNDERSTANDING OF THE EXISTING CONDITIONS.
- CONTRACTOR TO REMOVE AND TURN OVER TO CLIENT ALL ELECTRICAL SYSTEMS, IF THE CLIENT DEEMS FIT, CONTRACTOR TO PROPERLY DISPOSE OF ANY ELECTRICAL SYSTEMS THAT ARE TO BE DEMOLISHED OFF SITE.
- EXISTING CIRCUITING NOT DEEMED FOR REMOVAL TO REMAIN AND SHALL BE RE-ROUTED OR RECONNECTED, AS REQUIRED. WHERE THE CIRCUITRY MAY BE AFFECTED BY NEW WORK, MAINTAIN CONTINUITY OF THE CIRCUIT.
- EXISTING CIRCUITRY SERVING LIGHTING FIXTURES AND RECEPTACLES SHALL BE REUSED IF THEY CONVENIENTLY SERVICE THE NEW LAYOUT. IF THE CONTRACTOR DEEMS THESE CIRCUITS REUSABLE, CONTRACTOR TO CONFIRM WITH ENGINEER AND CLIENT PRIOR TO COMMENCEMENT OF WORK.
- ALL WORK AND ALL POWER OUTAGES IN THE EXISTING BUILDING TO BE SCHEDULED AT TIMES CONVENIENT TO THE CLIENT.
- CONTRACTOR TO ENSURE SECURITY SYSTEM IS OPERATIONAL THROUGHOUT DEMO AND CONSTRUCTION PHASES.

4. ISSUED FOR PERMIT/TENDER	AUG 2025
3. ISSUED FOR 90% SET	JULY 2025
2. ISSUED FOR COORDINATION	JUNE 2025
1. ISSUED FOR PRELIMINARY REVIEW	MAY 2025
NO. SUBMISSION	DATE

ONTARIO TECH UNIVERSITY
61 CHARLES ST. OSHAWA, ON, L1H 4X8

NEW ELEVATOR ELECTRICAL LAYOUT

D.G. BIDDLE & ASSOCIATES
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