STR	UCTURAL DRAWING LIST
S0.0	COVER PAGE
SO.1	GENERAL NOTES
S1.0	FLOOR PLAN - BASEMENT - PHASE 1
S1.1	FLOOR PLAN - LEVEL 1 - PHASE 1
S1.2	ATTIC PLAN - PHASE 1
S2.0	BUILDING SECTION
\$3.0	SECTIONS
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S4.0	DETAILS
\$5.0	TYPICAL DETAIL
SD1.0	DEMOLITION FLOOR PLAN - BASEMENT - PHASE 1
SD2.0	DEMOLITION FLOOR PLAN - FIRST FLOOR - PHASE 1

Project Issue Issue Date

HIGH PARK NATURE AND VISITOR'S CENTER

ISSUED FOR TENDER 2025/02/25

Owner Project Address Project Number

375 COLBORNE LODGE DR, TORONTO, ON M6R 2Z3 22-142





STRUCTURAL MECHANICAL PROCESS ELECTRICAL CIVIL ENGINEERS AND PROJECT MANAGERS

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GENERAL NOTES

CONTRACTOR'S EXPENSE

- THE GENERAL NOTES MUST BE READ IN CONJUNCTION WITH THE DESIGN DRAWINGS AND SPECIFICATIONS OF ENGINEERING AND ARCHITECTURAL DISIPLINES WHICH FORM PART OF THIS CONTRACT. THIS INCLUDES DRAWING SPECIFICATIONS AND SKETCKES. SHOULD THERE BE CONTRADICTORY INFORMATION BETWEEN DRAWINGS, SKETCHES AND SPECIFICATIONS, THE ONE WHICH IS MOST STRINGENT TAKES PRECEDENCE.
- REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF OPENINGS, TRENCHES, PITS, EQUIPMENT, SLEEVES, DEPRESSIONS, GROOVES AND CHAMFERS NOT INDICATED ON STRUCTURAL DRAWINGS.
- UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS, NO PROVISION HAS BEEN MADE IN THE DESGIN FOR CONDITIONS OCCURING DURING CONSTRUCTION. THE CONTRACTOR IS TO PROVIDE ALL NECESSARY BRACING AND SHORING REQUIRED FOR STRESSES AND INSTABILITY OCCURRING FROM ANY CAUSE DURING CONSTRUCTION. THE CONTRACTOR SHALL ACCEPT FULL RESPONSIBILITY FOR ALL SUCH MEASURES. IT SHALL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ALL NECESSARY BRACING, SHORING, SHEET PILING OR OTHER TEMPORARY SUPPORTS TO SAFEGUARD ALL EXISTING OR ADJACENT STRUCTURES AFFECTED BY THE WORK
- ALL CONNECTIONS CONNECTED TO EXISTING STRUCTURE ARE TO BE SITE VERIFIED.
- REVIEW OF SHOP DRAWINGS BY STRUCTURAL CONSULTANT IS ONLY TO ASSESS THAT SUBMITTED SHOP DRAWINGS REFLECT THE INTENT OF THE STRUCTURAL DESIGN. REVIEW BY THE STRUCTURAL CONSULTANT SHALL NOT RELIEVE THE CONTRACTOR OF THE
- RESPONSIBILITY FORSEEN THAT THE WORK IS COMPLETE, ACCURATE AND IN CONFORMITY WITH THE STRUCTURAL DRAWINGS AND SPECIFICATIONS.
- TYPICAL DETAILS SHALL BE USED WHERE SPECIFIC DETAILS ARE NOT SHOWN ON THE DRAWINGS. . ALL WORK REQUIRED, INCLUDING ANY DEMOLITION, SHALL BE CARRIED OUT IN A MANNER THAT WILL NOT DAMAGE THE EXISTING SITE OR STRUCTURE. ANY DAMAGE SHALL BE REPAIRED AT THE
- ALL DESIGN, DETAILING, CONSTRUCTION, EXCAVATION AND SHORING, MUST CONFORM TO THE PRESENT ONTARIO BUILDING CODE, OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS LATEST EDITION. ALL ASSOCIATED COST WITH THE DESIGN, SUPPLY AND INSTALLATION OF TEMPORARY SHORING IS THE RESPONSIBILITY OF THE GENERAL
- CONTRACTOR. GENERAL CONTRACTOR TO PROVIDE STAMPED, ENGINEERED SHORING DRAWINGS). THE GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK OF ALL SUBCONTRACTORS.
- THE GENERAL CONTRACTOR MUST REVIEW ALL DIMENSIONS PRIOR TO THE COMMENCEMENT OF ALL WORK AND MUST REPORT ALL DISCREPANCIES TO THE ENGINEER/ARCHITECT.
- 2. STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL AND ELECTRICAL DRAWINGS.

3. PROVII	de stamped structural shop dra	wings as no	TED IN THE FOLI	OWING TABLE.
	ITEMS	req'd Submittal	Engineer's Stamp req'd	NOTES
	REBAR SHOP DWGS.	YES	NO	
	CONC. MIX DESIGNS	YES	NO	
	STRUCT. STEEL SHOP DWGS.	YES	YES	
	STUD WALL SHOP DWGS.	YES	YES	

- 4. PROJECTS WHICH INCLUDE ANY DEMOLITION AND OR RENOVATION WORK, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND EXISTING CONSTRUCTION. SHOULD A DISCREPANCY ON EITHER BE FOUND, REPORT FINDINGS TO ENGINEER/ARCHITECT.
- . ALL DETAILS SHOWN ARE SPECIFIC TO THE PROJECT. WHERE A LOCATION IS NOT SPECIFIED FOR A DETAIL, DETAILS IN THE DRAWINGS INCLUDING TYPICAL DETAILS WHICH CLOSELY RESEMBLES THE WORK, WILL APPLY.
- 6. ALL CODES AND REGULATIONS QUOTED ARE TO BE THE LATEST EDITION.

SLAB ON GRADE NOTES

- TOP OF FINISHED CONCRETE SLAB ON GRADE ELEVATION AS NOTED ON PLAN. SLAB ON GRADE SHALL BE 125mm THICK UNLESS NOTED OTHERWISE C/W
- 152x152x10\10 WELDED WIRE MESH @ MID-DEPTH. SLAB SHALL BEAR DIRECTLY ON A MINIMUM OF 200mm WELL COMPACTED 19mm CLEAR STONE. SEE PLAN FOR SAWCUT/CONTROL JOINTS LOCATIONS.CO-ORDINATE LOCATION
- OF FLOOR CONTROL JOINTS AND/OR CONSTRUCTION JOINTS WITH ARCHITECTURAL FLOOR FINISHES.
- SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS, WALL THICKNESS FLOOR 4. SLOPES AND FLOOR FINISHES NOT SHOWN.
- 5. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATION AND OF ALL PITS, INSERTS, DRAINS AND HOUSEKEEPING PADS.
- ALL ISOLATION JOINTS AROUND COLUMNS AND FLOOR DRAINS ARE TO BE 6. FORMED NOT SAWCUT.
- PROVIDE SLAB THICKENING/ISOLATED FOOTING BELOW ALL INTERIOR CONCRETE BLOCK PARTITION WALLS UNLESS NOTED OTHERWISE.
- DEPRESS AND MAINTAIN SPECIFIED SLAB ON GRADE THICKNESS AT MAT SINKAGES AND OTHER FLOOR DEPRESSIONS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS.

STRUCTURAL STEEL

- STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION C.S.A. S16.1: LIMIT STATES DESIGN OF STEEL STRUCTURES, C.S.A. G40-20: GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEELS C.S.A. G40-21: STRUCTURAL QUALITY STEELS
- C.S.A. W59: WELDED STEEL CONSTRUCTION C.S.A. \$136: COLD FORMED STEEL STRUCTURAL MEMBERS STRUCTURAL STEEL SHALL CONFORM TO G40.21 GRADE 350W FOR W SHAPES AND CHANNELS, AND
- GRADE 300W FOR PLATES, ANGLES. SQUARE/RECTANGULAR HSS (HOLLOW STRUCT. SECTIONS) SHALL BE GRADE 350W, CLASS C. ROUND HSS SHALL BE ASTM A500 GRADE C.
- UNLESS NOTED ON DRAWINGS, ALL BOLTS SHALL CONFORM TO A325 HIGH STRENGTH BOLTS IN BEARING M20 DIAMETER MINIMUM.
- THE DESIGN OF BEAM SHEAR CONNECTIONS SHALL BE THE GREATER OF 50% OF THE BEAM SHEAR OR THE BEAM REACTION CALCULATED USING THE DESIGN LOADS SHOWN ON THE DRAWINGS, OR THE DESIGN SHEAR SHOWN. USE A MINIMUM OF TWO BOLTS.
- WELDED CONNECTIONS SHALL BE UNDERTAKEN ONLY BY CERTIFIED WELDERS APPROVED BY C.W.B. TO THE REQUIREMENTS OF W47.1 DIVISION 1 AND 2. WELDING SHOULD BE DONE IN ACCORDANCE WITH W59. USE WELDING ELECTRODES WITH LOW HYDROGEN E480XX (E70XX) OR APPROVED FQUAL
- SHOULD THE FABRICATOR ELECT TO USE AN ALTERNATE ELECTRODE, THE ALTERNATE ELECTRODE SHALL MEET THE INTENT OF THE CONNECTION DESIGN AND MUST BE CERTIFIED BY A LICENSED WELDING ENGINEER IN THE PROVINCE OF ONTARIO. THE COST OF THE CERTIFICATION MUST BE BOURN BY THE CONTRACTOR.
- WHEN WELDING TO EXISTING STEEL OR FIELD WELDING NEW STEEL, THE LOCATION OF THE WELD MUST BE FREE OF PAINT AND PRIMER.
- B. CONNECTIONS FOR BRACING MEMBERS MUST BE DESIGNED FOR THE FULL TENSILE STRENGTH OF THE MEMBER, UNLESS LOADS ARE OTHERWISE INDICATED ON THE DRAWINGS.
- ALL EXTERIOR EXPOSED STEEL INCLUDING MISCELLANEOUS EMBEDDED PLATES SUPPORTING SHELF ANGLES AND SHELF ANGLES SHALL BE HOT DIPPED GALVANIZED.

WOOD AND WOOD JOISTS

- ALL WOOD SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH CSA STANDARD CAN/CSA 086-01 ENGINEERING DESIGN IN WOOD AND THE WOOD DESIGN MANUAL, PUBLISHED BY THE CANADIAN WOOD COUNCIL.
- ALL TRUSSES ARE TO BE PRE-ENGINEERED IN ACCORDANCE WITH CSA STANDARD CAN/CSA 086-01 ENGINEERING DESIGN IN WOOD. DESIGN SHALL CONSIDER DEAD LOADS AND LIVE LOADS INCLUDING, BUT NOT LIMITED TO, SNOW PILE-UP AND EQUIPMENT LOADS AS SHOWN ON DRAWINGS. CONTRACTOR SHALL SUBMIT FOR REVIEW FABRICATION DRAWINGS AND CALCULATIONS SHOWING DESIGN LOADS, MEMBER SIZES, BRACING AND CONNECTION DETAILS STAMPED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROVINCE OI ONTARIO.
- JOISTS HANGERS SHALL BE MINIMUM 20 GAUGE GALVANIZED STEEL AND SHALL CONFORM TO THE INTERNATIONAL CONFERENCE OF BUILDING OFFICIALS "ACCEPTANCE CRITERIA FOR JOIST HANGERS AND SIMILAR DEVICES"
- TRUSS PLATES SHALL CONFORM TO THE CSA STANDARD S347-M80 "METHOD OF TEST FOR EVALUATION OF TRUSS PLATES USED IN LUMBER JOINTS"
- NAILS AND SPIKES SHALL CONFORM TO THE CSA STANDARD B111-1974 "WIRE NAILS, SPIKES AND STAPLES"
- . SAWN TIMBER PRODUCTS SHALL CONFORM TO THE CSA STANDARD CAN/CSA-041-91 "SOFTWOOD LUMBER" AND GRADING OF TIMERS IN ACCORDANCE WITH THE NATIONAL LUMBER GRADES AUTHORITY "STANDARD GRADING RULES FOR CANADIAN LUMBER"
- GLUED-LAMINATED TIMBER PRODUCTS SHALL CONFORM TO CSA STANDARD CAN/CSA-0122-M89 "STRUCTURAL GLUED-LAMINATED TIMBER"
- STRUCTURAL COMPOSITE LUMBER (SCL) INCLUDING LAMINATED VENEER LUMBER (LVL) AND PARALLEL STRAND LUMBER (PSL) SHALL, BE FABRICATED AND ERECTED IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN INSTRUCTIONS.
- . PLYWOOD SHEATHING SHALL CONFORM TO THE CSA STANDARD 0121-M1978 "DOUGLAS FIR PLYWOOD" AND 0151-M1978 "CANADIAN SOFTWOOD PLYWOOD"
- 0. WAFERBOARD AND ORIENTED STRAND BOARD SHALL CONFORM TO THE CSA STANDARD CAN3-0437.0/0437.1-M85 "WAFERBOARD AND STRANDBOARD"
- . ALL STEEL BEARING AND CONNECTOR PLATES SHALL CONFORM TO THE CSA STANDARD CAN/CSA-G40.21-M92 "WELDED STRUCTURAL QUALITY STEEL/STRUCTURAL QUALITY STEELS HAVING A YIELD STRENGTH OF 300 MPa
- 12. ALL BOLTS AND THREADED ROD CONNECTING WOOD MEMBERS SHALL CONFORM TO ASTM A307
- 13. ALL WOOD STUDS SHALL BE SPRUCE-PINE-FIR NO. 1 AND 2 GRADE OR BETTER
- 14. ALL WOOD JOISTS, NAILERS AND BLOCKING SHALL BE SPRUCE-PINE-FIR NO. 1 AND 2 GRADE OR BFTTFR
- 5. ALL BUILT-UP WOOD BEAMS AND COLUMNS SHALL BE SPRUCE-PINE-FIR NO. 1 AND 2 GRADE OR BETTER
- 16. FOR ALL WOOD CONSTRUCTION NOT DETAILED, FOLLOW THE ONTARIO BUILDING CODE 2012, SECTION 9.23 "WOOD FRAME CONSTRUCTION" WOODEN NAILERS AND BLOCKING
- 7. ALL WOODEN NAILERS AND BLOCKING SHALL BE SAWN LUMBER SPF N01/NO2 TO CAN/CSA-086.1 SIZE SHALL BE AS SHOWN ON DRAWINGS
- 8. WOODEN BLOCKING SHALL BE LOCATED OVER THE NAILER IN BETWEEN JOISTS. THE SIZE OF BLOCKING SHALL BE AS SHOWN ON DRAWINGS. THE LENGTH OF BLOCKING SHALL BE AS LONG AS POSSIBLE BETWEEN JOIST (FINAL LENGTH TO BE COORDINATED WITH JOIST SUPPLIER). THE BLOCKING SHALL BE CONNECTED TO WOODEN NAILER WITH 65MM COMMON WIRE NAILS, 2 NAILS PER ROW, ROWS SPACED AT 250 CENTRES UNLESS OTHERWISE MENTIONED IN DRAWINGS.

STRUCTURAL STEEL

- STRUCTURAL STEEL DESIGN, FABRICATION AND ERECTION SHALL CONFORM TO THE LATEST EDITION C.S.A. \$16.1: LIMIT STATES DESIGN OF STEEL STRUCTURES, C.S.A. G40-20: GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEELS C.S.A. G40-21: STRUCTURAL QUALITY STEELS
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- STRUCTURAL STEEL SHALL CONFORM TO G40.21 GRADE 350W FOR W SHAPES AND CHANNELS, AND GRADE 300W FOR PLATES, ANGLES. SQUARE/RECTANGULAR HSS (HOLLOW STRUCT. SECTIONS) SHALL BE GRADE 350W, CLASS C. ROUND HSS SHALL BE ASTM A500 GRADE C.
- S NOTED ON DRAWINGS, ALL BOLTS SHALL CONFORM TO A325 HIGH STRENGTH BOLTS IN BEARING M20 DIAMETER MINIMUM.
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- SHOULD THE FABRICATOR ELECT TO USE AN ALTERNATE ELECTRODE, THE ALTERNATE ELECTRODE SHALL MEET THE INTENT OF THE CONNECTION DESIGN AND MUST BE CERTIFIED BY A LICENSED WELDING ENGINEER IN THE PROVINCE OF ONTARIO.THE COST OF THE CERTIFICATION MUST BE BOURN BY THE CONTRACTOR
- WHEN WELDING TO EXISTING STEEL OR FIELD WELDING NEW STEEL, THE LOCATION OF THE WELD MUST BE FREE OF PAINT AND PRIMER.
- CONNECTIONS FOR BRACING MEMBERS MUST BE DESIGNED FOR THE FULL TENSILE STRENGTH OF THE MEMBER, UNLESS LOADS ARE OTHERWISE INDICATED ON THE DRAWINGS.
- ALL EXTERIOR EXPOSED STEEL INCLUDING MISCELLANEOUS EMBEDDED PLATES SUPPORTING SHELF ANGLES AND SHELF ANGLES SHALL BE HOT DIPPED GALVANIZED.

SOILS AND FOUNDATIONS

- ALL THE SPREAD FOOTINGS AND STRIP FOOTINGS TO BE CONSTRUCTED ON UNDISTURBED NATIVE SOIL OR ENGINEERED FILL CAPABLE OF RESISTING 150 KPa (3133 PSF) ACCRODING TO GEOTECHNNICAL INVESTIGATION REPORT BY ORBIT ENGINEERING LIMITED (PROJECT NO.OE231465DG, MARCH 31, 2023). THE GEOTECHNICAL CONSULTANT TO CONFIRM THE SOIL BEARING RESISTANCE BEFORE CONSTRUCTION.
- THE GEOTECHNICAL REPORT PROVIDED IS A GUIDE ONLY. MANTECON PARTNERS INC. IS NOT RESPONSIBLE FOR ITS CONTENT, RECOMMENDATIONS, CORRECTNESS AND OMISSIONS. THE GENERAL CONTRACTOR SHOULD FAMILIARIZE HIMSELF WITH THE REPORT AND THE SITE.
- FOR THE DURATION OF THE EXCAVATION, THE GEOTECHNICAL AND STRUCTURAL ENGINEERS MUST BE MADE AWARE OF ALL SOIL CONDITIONS FOUND WHICH ARE DIFFERENT THAN REPORTED IN THE GEOTECHNICAL REPORT.
- FOUNDING ELEVATION, BACKFILL AND COMPACTION MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER.
- ALL FOOTINGS MUST BE FOUNDED AT THE ELEVATIONS SHOWN ON THE CONTRACT DOCUMENTS, UNLESS POORER SOIL CONDITIONS ARE ENCOUNTERED, WHERE THE GEOTECHNICAL ENGINEER WILL DETERMINE FOUNDING ELEVATIONS.
- ALL EXTERIOR FOOTINGS AND FOOTINGS EXPOSED TO FREEZING MUST BE FOUNDED TO A MINIMUM FROST PROTECTION DEPTH OF 1.2M (4') BELOW FINISHED GRADE. REFER TO GRADING PLAN FOR FINISH EXTERIOR GRADE ELEVATIONS.
- ALL SPREAD FOOTINGS, CONTINUOUS FOOTINGS AND DEEP FOUNDATIONS, WHICH INCLUDES BUT IS NOT LIMITED TO CAISSONS AND PILES, MUST BE CONSTRUCTED CONCENTRIC TO THE COLUMN AND/OR WALL WHICH THEY ARE SUPPORTING UNLESS OTHERWISE NOTED.
- ALL EXCAVATIONS MUST BE CARRIED OUT IN CONFORMANCE TO THE GEOTECHNICAL REPORT AND OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS FOR CONSTRUCTION PROJECTS, LATEST EDITION GUIDELINES.
- DO NOT EXCEED A MAXIMUM RISE TO RUN OF 7 TO 10 SLOPE BETWEEN ADJACENT FOOTINGS UNLESS DIRECTED IN WRITING BY THE GEOTECHNICAL ENGINEER.
- D. BACKFILL MATERIAL AND COMPACTION SHOULD BE IN CONFORMANCE WITH GEOTECHNICAL REPORT.
- . PRIOR TO BACKFILLING, CONCRETE FLOOR OR STRUCTURAL STEEL FLOOR AND SLAB ON GRADE MUST BE IN PLACE TO PREVENT WALLS FROM COLLAPSE. THE CONCRETE MUST HAVE ACHIEVED A STRENGTH OF MINIMUM 75% OF ITS DESIGN STRENGTH.
- 2. IN WALLS WHERE THE CONTRACT DOCUMENTS CALL FOR WATER STOPS AT THE INTERFACE OF THE TOP OF FOOTING AND THE UNDERSIDE OF THE WALL. THE GENERAL CONTRACTOR MUST PROVIDE THE STRUCTURAL ENGINEER SKETCHES OF THE PROPOSED INSTALLATION FOR REVIEW. SIMILAR DIRECTION MUST BE FOLLOWED FOR WALL CONSTRUCTION JOINTS.

CONCRETE AND REINFORCING

- CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION, TESTING AND STANDARD PRACTICES FOR CONCRETE SHALL BE IN ACCORDANCE WITH CSA STANDARD A23.1/A23.2 (LATEST
- CONCRETE DESIGN SHALL BE IN ACCORDANCE WITH THE DESIGN OF CONCRETE STRUCTURES CSA STANDARD A23.3 (LATEST EDITION).
- SUPPLY AND PLACE CONCRETE IN ACCORDANCE TO TABLE 1

	TABLE 1				
	LOCATION MI LOCATION STRENG AT 28 MPa		SLUMP mm (in)	exposure Class	AIR CONTENT (%)
FIGS	FND. WALL FOOTINGS			Ν	0
MALLS	FND. WALLS,SHEAR WALLS, ABOVE GRADE WALLS RETAINING WALLS	35 (5077)	80 ± 30 (3 ± 1)	C-1	5-8
BEAMS AND STAIRS	INTERIOR SLAB ON GRADE, AND CONC. SLAB ON DECK	25 (3500)	80 ± 30 (3 ± 1)	Ν	0
SLABS, BEAMS COLUMNS AND STAI	INTERIOR SLAB, BEAMS, COLUMNS AND STAIRS	25 (3500)	80 ± 20 (3 ± <u>3</u>) 4	Ν	0
	SIDEWALK/CURBS PAVING SLABS, EXTERIOR CONC. AND TOPPING	32 (4650)	40 ±20 (11±3) 2 4	C-2	5-8
OTHER	HOUSEKEEPING PADS 25 (3500)		80 ± 30 (3 ± 1)	Ν	0
0	NON-SHRINKABLE GROUT	30	AS PER MANUF. RECOMEN.	Ν	0
	LEAN MIX CONCRETE	8 (1000)	80 ± 30 (3 ± 1)	Ν	0

. THE COMPRESSIVE STRENGTH OF THE CONCRETE IS BASED ON THE FOLLOWING CONDITIONS:

- a. TYPE GU NORMAL PORTLAND CEMENT UNLESS OTHERWISE NOTED OR APPROVED b. MAXIMUM SIZE OF AGGREGATE 20mm (3/4") WASHED IRREGULAR CUT CLEAR STONE c. Slump shown on the table is slump without slump aid admixture. Where the use of an ADMIXTURE IS PREFERRED TO INCREASE THE SLUMP, THE SUPERPLASTICIZED CONCRETE SLUMP MUST REMAIN BELOW THE POINT AT WHICH SEGREGATION WILL OCCUR.
- REINFORCEMENT SHALL CONFORM TO CSA G30.3, G30.5 AND G30.18 (LATEST EDITION) YIELD STRENGTH FOR CONCRETE AND MASONRY REINFORCEMENT, fy=400MPa YIELD STRENGTH FOR WELDED WIRE FABRIC fy=360MPa

. WHEN COLUMNS AND WALLS ARE POURED INTEGRALLY USE THE HIGHER STRENGTH CONCRETE OF THE ELEMENT WHICH SPECIFIED IN TABLE 1.

MINIMUM CONCRETE COVER FOR REINFORCING, WHERE NOT SHOWN ON DESIGN DRAWINGS SHALL BE AS FOLLOWS:

a. ALL STEEL NOT CAST IN FORMS PERMANENTLY AGAINST EARTH OR ROCK AND IN A NON-CORROSIVE ENVIRONMENT, COVER SHALL BE 75mm (3"). b. ALL STEEL CAST IN FORMS SHALL FOLLOW TABLE 2 OR AS NOTED ON DRAWINGS.

TABLE 2			
STRUCTURAL ELEMENT	COVER mm (in)	STRUCTURAL ELEMENT	COVER mm (in)
CONCRETE POURED IN FORMS BI EXPOSED TO WEATHER OR EARTH	CONCRETE NOT EXPOSED TO WEATHER OR EARTH		
-BARS LARGER THAN 15M	RS LARGER THAN 15M 50 (2")		25 (1")
-BARS 15M AND SMALLER	38 (1 1/2")	-beams and girders	38 (1 1/2")
	-COLUMNS MAIN STEEL	50 (2'')	
FTGS. & OTHER ELEMENTS POURED AGAINST EARTH	75 (3")		

8. THE GENERAL CONTRACTOR MUST COORDINATE THE INSTALLATION OF MECHANICAL AND ELECTRICAL OPENINGS AND SLEEVES. THEY MUST FOLLOW THE GUIDE LINES BELOW:

- a. NO SLEEVES SHALL BE PLACED VERTICALLY OR HORIZONTALLY THROUGH BEAMS UNLESS
- APPROVED BY THE STRUCTURAL ENGINEER. b. NO OPENINGS SHALL BE MADE IN FLAT SLABS OR TWO WAY SLAB COLUMN STRIPS EXCEPT AS
- SHOWN ON THE DRAWINGS OR APPROVED BY THE STRUCTURAL ENGINEER. WHERE A CORE DRILL OR AN OPENING IS REQUIRED IN HARDENED CONCRETE THE GENERAL
- CONTRACTOR MUST SEEK THE APPROVAL OF THE STRUCTURAL ENGINEER. d. ELECTRICAL CONDUITS SHALL NOT PASS THROUGH COLUMNS AND ARE NOT TO RUN HORIZONTALLY IN WALLS.
- e. CONDUITS WITHIN SLABS MUST NOT HAVE A (OUTER) DIAMETER GREATER THAN ONE-QUARTER OF THE SLAB THICKNESS. SPACING BETWEEN CONDUITS MUST BE AT LEAST 3 TIMES THE OUTER DIAMETER (CLEAR SPACING). CONDUITS MUST BE PLACED WITHIN MIDDLE THIRD OF SLAB. CONDUITS SHALL BE LAID SUCH THAT ONLY SINGLE CROSS OVERS OCCUR WITHIN MAXIMUM 500mm OF ONE ANOTHER. ALL CONDUITS WITHIN SLAB ARE SUBJECT TO APPROVAL BY STRUCTURAL CONSULTANT.
- REFER TO DESIGN DRAWINGS FOR TYPICAL DETAILS OF CONTROL JOINTS, EXPANSION JOINTS AND CONSTRUCTION JOINTS. UNLESS OTHERWISE NOTED ON THE DESIGN DRAWINGS, THE FOLLOWING MAXIMUM DISTANCE BETWEEN JOINTS MUST BE FOLLOWED:
- a. CONTROL JOINTS IN WALLS 6m (20') MAXIMUM b. MAXIMUM POUR LENGTH FOR SLAB ON GRADE IS 30m (100').
- c. ALL SAWCUTS MUST BE MADE WITHIN 24 HRS. FROM PLACING OF CONCRETE. THE DEPTH OF THE SAWCUT MUST BE 1/3 THE DEPTH OF THE SLAB.

TOPPING

10. THE CONTRACTOR SHALL PROVIDE A SUITABLE TOP FINISH TO ACCEPT DIRECT APPLICATION OF FINISHED FLOORING/ROOFING AS PER ROOM FINISH SCHEDULE

TESTING AND INSPECTION

THE FOLLOWING ITEMS REQUIRE TESTING OR INSPECTION BY A CERTIFIED INDEPENDENT TESTING OR INSPECTION AGENCY UNLESS NOTED OTHERWISE. THE AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS TO THE ENGINEER FOR REVIEW.

REQ'D?	COMMENTS
YES	BY SOILS ENGINEER
YES	BY SOILS ENGINEER
YES	INSPECT FINAL PLACEMENT
YES	MIN. 2 SETS PER X m ³
YES	
YES	INSPECT ALL CONNECTIONS
NO	
NO	
	YES YES YES YES YES YES NO

STRUCTURAL ABBREVIATIONS								
A.B.	ANCHOR BOLT	L.L.H.	LONG LEG HORIZONTAL					
ALT.	ALTERNATE	L.L.V.	LONG LEG VERTICAL					
ALUM.	ALUMINUM	LP.	LOW POINT					
ANCH'S.	ANCHORS	LG.	LONG					
APPROX.	APPROXIMATELY	L.S.H.	LONG SIDE HORIZONTAL					
ARCH.	ARCHITECTURAL	L.S.V.	LONG SIDE VERTICA					
В	BOTTOM	L.L.B.B.	LONG LEG BACK TO BACK					
B/F	BOTTOM FACE	M.C.	MOMENT CONNECTION					
B/FTG.	BOTTOM OF FOOTING	MAX.	MAXIMUM					
B.A.	BASE PLATE	MECH.	MECHANICAL					
BLK.	BLOCK	MET'L.	METAL					
BM.	BEAM	MIN.	MINIMUM					
BTM.	BOTTOM	MISC.	MISCELLANEOUS					
BRG.	BEARING	m	METER					
BT.PL.	BENT PLATE	mm	MILLIMETRE					
B.L.L	BOTTOM LOWER LEVEL	MPa	MEGAPASCAL					
B.U.L.	BOTTOM UPPER LEVEL	N.I.C.	NOT IN CONTRACT					
C/W	COMPLETE WITH	N.T.S.	NOT TO SCALE					
C/C	CENTRE TO CENTRE	No.	NUMBER					
C.J.	CONTROL JOINT	NS/FS	NEAR SIDE/FAR SIDE					
D.T.		- · -						

C.J.	CONTROL JOINT	N2/F2	NEAR SIDE/FAR SIDE
BT.	CENTRE LINE	O.A.E.	OR APPROVED EQUAL
CLG.	CEILING	O.C.	ON CENTRE
COL.	COLUMN	0.C.B.	ON CENTRE BOTTOM
CONC.	CONCRETE	O.D.	OUTSIDE DIAMETER
CONN.	CONNECTION	O.H.	OVER HEAD
CONST.	CONSTRUCTION	OWSJ	OPEN WEB STEEL JOIST
CONT.	CONTINUOUS	OPG.	OPENING
DEMO.	DEMOLITION	O.S.F.V.	OUTSIDE FACE VERTICAL
DET'L.	DETAIL	PART'N.	PARTITION
DIA.	DIAMETER	PL.	PLATE
DIM.	DIMENSION	R.C.	REINFORCED CONCRETE
DO	DIDO	R.D.	ROOF DRAIN
DP.	DEEP	R.O.	ROUGH OPENING
DWG.	DRAWING	REF.	REFERENCE
DWL.	DOWEL	REINF.	REINFORCED
E.F.	EACH FACE	req'd	REQUIRED
E.F.H.	EACH FACE HORIZ.	SECT.	SECTION
E.J.	EXPANSION JOINT	S.D.F.	STEP DOWN FOOTING
ELEC.	ELECTRICAL	S.L.H.	SHORT LEG HORIZONTAL
E.S.	EACH SIDE	S.L.V.	SORT LEG VERTICAL
E.W.	EACH WAY	S.L.B.B.	SHORT LEG BACK TO BACK
EA.	EACH.	S.O.G	SLAB ON GRADE
ELEV.	ELEVATION	S.P.D.D.	STANDARD PROCTOR DRY DENSITY
EQ.	EQUAL	S.S.	STAINLESS STEEL
EXIST.	EXISTING	STL.	STEEL
F.F.	FACE TO FACE	STIFF	STIFFENER
FIN.	FINISHED	STRUCT.	STRUCTURAL
FL.	FLOOR	Т	TOP
FDN.	FOUNDATION	T/C	TOP OF CONCRETE
FTG.	FOOTING	T/F	TOP OF FOOTING
GA.	GAUGE	T/O	TOP OF
GALV.	GALVANIZED	T/S	TOP OF STEEL
GRD.	GRADE	T/WALL	TOP OF WALL
HORIZ.	HORIZONTAL	T.L.L.	TOP LOWER LEVEL
H.D.	HEAVY DUTY	TYP.	TYPICAL
H.D.G.	HOT DIPPED GALVANIZED	U/G	UNDERGROUND
H.E.F.	HORIZONTAL EACH FACE	U.N.O.	UNLESS NOTED OTHERWISE
H.P.	HIGH POINT	U/S	UNDERSIDE
HSS	HOLLOW STRUCT. SECTION	VERT.	VERTICAL
HT.	HEIGHT	V.E.F	VERTICAL EACH FACE
I.D.	INSIDE DIAMETER	V.I.F.	VERTICAL INSIDE FACE
	INVERT ELEVATION	V.O.F.	VERTICAL OUTSIDE FACE
I.SV.	INSIDE FACE VERTICAL	V.S.C.	VERTICAL SLOTTED CONNECTION
kN.	KILONEWTON	W.P.	WORKING POINT
kN/m	KILONEWTON METERS	W.W.M.	WELDED WIRE MESH
kPa	KILOPASCAL	@	SPACED AT
L	ANGLE	2	
L			

DESIGN LOADS

<u>GRAVITY LOADS</u>		
1 DEAD LOADS	EXISTING (kPa)	NEW (kPa)
LEVEL 1 WOOD FLOOR LEVEL 1 DECK + CONC. ATTIC (LIMITED ACCESS) ATTIC (MECHANICAL) ROOF (MAIN) (DL OF WOOD FLOORS INCLUDE JOIST SELF)	0.5 N/A 0.1 N/A 0.7 WEIGHTS) + SELF WEIGHT OF NEW S	0.65 2.8 0.15 0.4 N/A STRUCTURAL MEMBERS
SOLAR PANEL ALLOWANCE M+E+CEILING ALLOWANCE SPRINKLER ALLOWANCE	0.5 kPa (INCLUDING FRAMING) 0.3 kPa 0.2 kPa)
2. LIVE LOADS		
ATTIC (LIMITED ACCESS - NO STORAGE) ATTIC LEVEL (NEW MECHANICAL SPACE) WASHROOMS OTHERS	0.5 kPa 2.4 kPa 2.4 kPa 4.8 kPa	
3. SNOW LOADS HAVE BEEN DETERMINED II CRITERIA:	N ACCORDANCE WITH THE O.B.C.	USING THE FOLLOWING
TORONTO, ON Ss = 0.9 kPa, Sr = 0.4 kPa BASIC SNOW LOAD = 1.12 kPa		
REFER TO PLANS FOR SNOW PILE UP CONDIT NO GAP IS ALLOWED BETWEEN FUTURE SOLA		
LATERAL LOADS		
1. WIND LOADS HAVE BEEN DETERMINED IN CRITERIA:	ACCORDANCE WITH THE 0.B.C US	ING THE FOLLOWING
TORONTO,ON q10 = 0.34 kPa q50 = 0.44 kPa NO GAP IS ALLOWED BETWEEN FUTURE SOLA	R PANELS AND ROOF	
2. SEISMIC LOADS HAVE BEEN DETERMINED FOLLOWING CRITERIA; TORONTO, ON:	IN ACCORDANCE WITH THE O.B.C	. USING THE

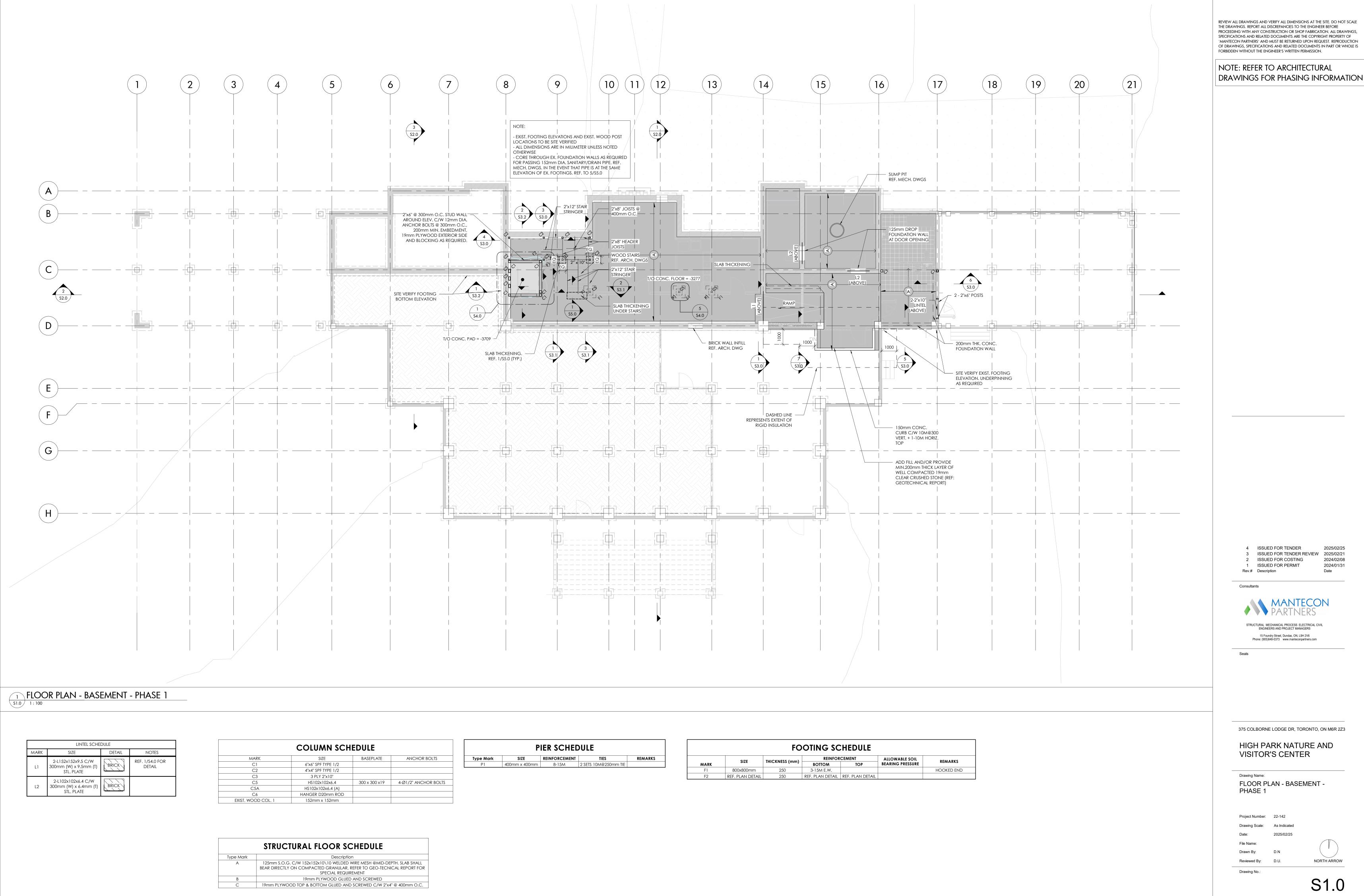
Sa (0.2) = 0.249 Sa (0.5) = 0.126 Sa (1.0) = 0.063

- Sa (2.0) = 0.029 Sa (5.0) = 0.0071 Sa (10.0) = 0.0028 PGA = 0.16 PGV = 0.099
- LATERAL EARTH PRESSURE HAS BEEN DETERMINED BASED ON THE FOLLOWING CRITERIA: k(active) = 0.5
- SOIL DENSITY = 20.5 kN/m3
- . VEHICLE GUARDRAILS HAVE BEEN DESIGNED FOR LOADING GIVEN IN 4.1.5.16 OF OBC.
- HANDRAILS HAVE BEEN DESIGNED FOR LOADING GIVEN IN 2012 OBC 3.4.6.5(12)

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	ndry Street, Dundas, ON, L9H 2V6 648-0373 www.manteconpartners.com	
Seals		
	E LODGE DR, TORONTO,	ON M6R 2
375 COLBORN	E LODGE DR, TORONTO, ARK NATURE A	
375 COLBORN HIGH PA		
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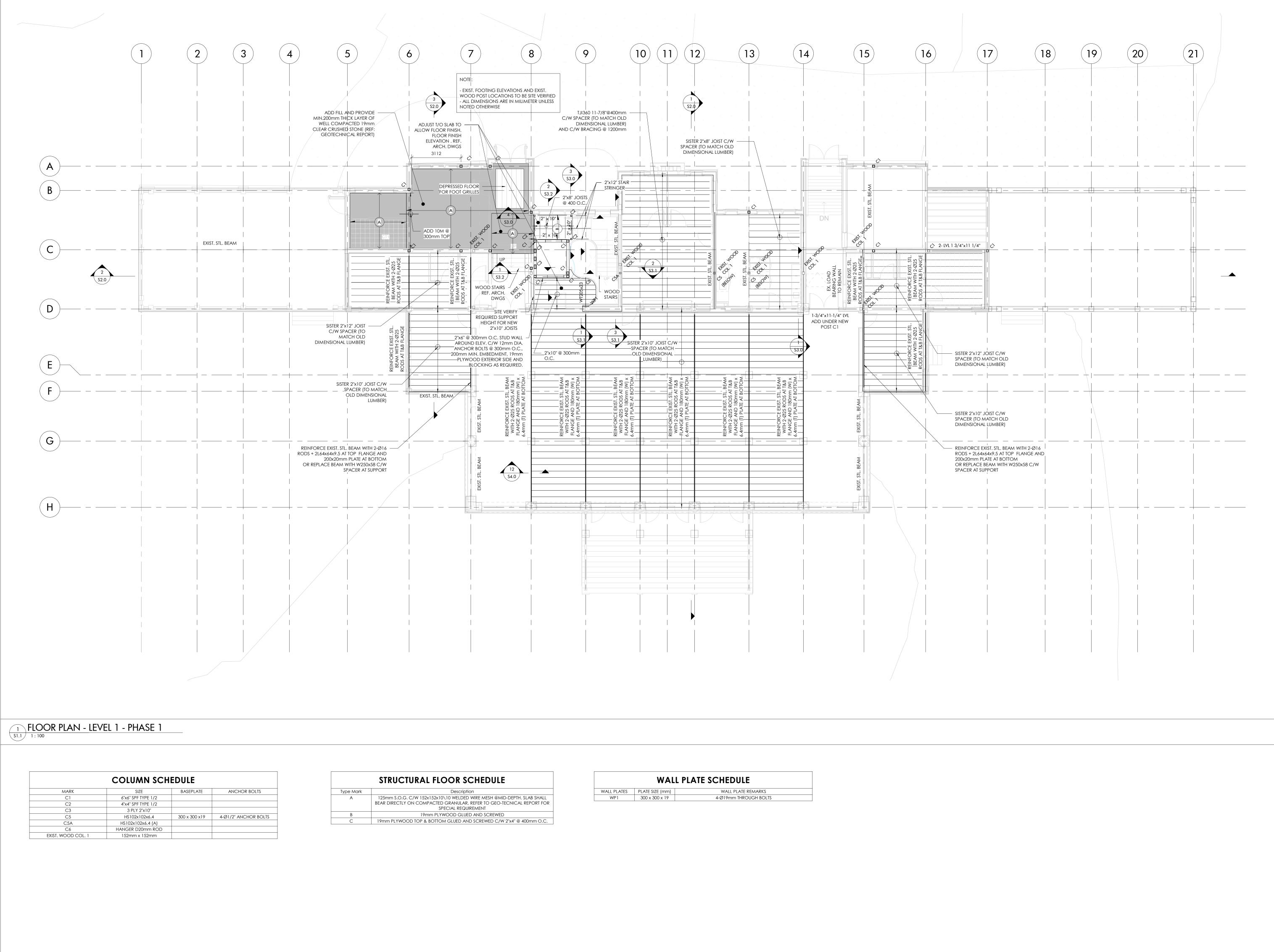


LINTEL SCHEDULE							
MARK	SIZE	DETAIL	NOTES				
LI	2-L152x152x9.5 C/W 300mm (W) x 9.5mm (T) STL. PLATE	BRICK	REF. 1/S4.0 FOR DETAIL				
L2	2-L102x102x6.4 C/W 300mm (W) x 6.4mm (T) STL. PLATE	BRICK					



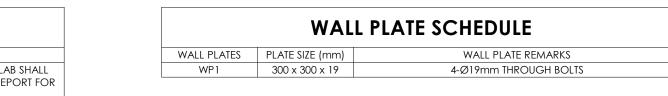
STRUCTURAL FLOOR SCHEDULE					
Type Mark	Description				
A	125mm S.O.G. C/W 152x152x10\10 WELDED WIRE MESH @MID-DEPTH. SLAB SHALL BEAR DIRECTLY ON COMPACTED GRANULAR, REFER TO GEO-TECNICAL REPORT FOR SPECIAL REQUIREMENT				
В	19mm PLYWOOD GLUED AND SCREWED				
С	19mm PLYWOOD TOP & BOTTOM GLUED AND SCREWED C/W 2"x4" @ 400mm O.C.				

					_								
PIER SCHEDULE							FO	OTING SC	CHEDULE				
ype Mark	SIZE	REINFORCEMENT	TIES	REMARKS	Ī	0175		0175		REINFOR	CEMENT	ALLOWABLE SOIL	REMARK
P1	400mm x 400mm	8-15M	2 SETS 10M@250mm TIE			MARK	SIZE	THICKNESS (mm)	BOTTOM	TOP	BEARING PRESSURE	KEMAKK	
						F1	800x800mm	250	3-15M E.W.			HOOKED E	
						E0		250					



COLUMN SCHEDULE			
MARK	SIZE	BASEPLATE	ANCHOR BOLTS
C1	6"x6" SPF TYPE 1/2		
C2	4"x4" SPF TYPE 1/2		
C3	3 PLY 2"x10"		
C5	HS102x102x6.4	300 x 300 x19	4-Ø1/2" ANCHOR BOLTS
C5A	H\$102x102x6.4 (A)		
C6	HANGER D20mm ROD		
EXIST. WOOD COL. 1	152mm x 152mm		

	STRUCTURAL FLOOR SCHEDULE
Type Mark	Description
A	125mm S.O.G. C/W 152x152x10\10 WELDED WIRE MESH @MID- BEAR DIRECTLY ON COMPACTED GRANULAR, REFER TO GEO-TEC SPECIAL REQUIREMENT
В	19mm PLYWOOD GLUED AND SCREWED
С	19mm PLYWOOD TOP & BOTTOM GLUED AND SCREWED C/W 2



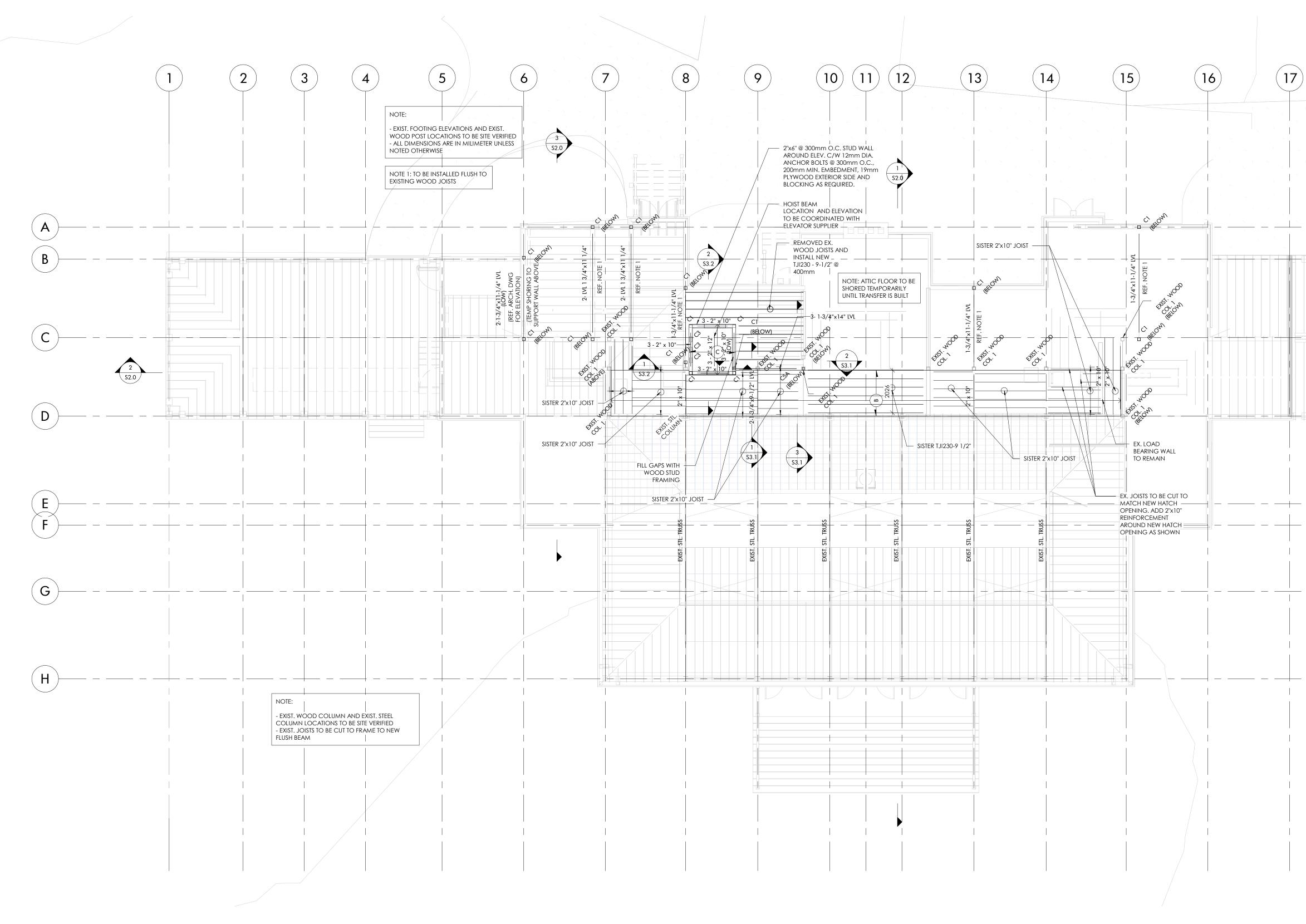
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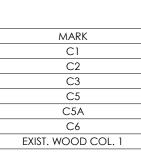
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-	AN - LEVEL	. 1 - PHASE 1
Project Number:	22-142	
Drawing Scale:	As Indicated	
Date:	2025/02/25	
File Name:	DN	(\downarrow)
Drawn By: Reviewed By:	D.N D.U.	NORTH ARROW

S1.1

Drawing No.:



1 ATTIC LEVEL -PHASE 1 S1.2 1:100



COLUMN SCHEDULE SIZE 6"x6" SPF TYPE 1/2 4"x4" SPF TYPE 1/2 3 PLY 2"x10" HS102x102x6.4 HS102x102x6.4 (A) HANGER D20mm ROD

152mm x 152mm

BASEPLATE ANCHOR BOLTS

300 x 300 x19

4-Ø1/2" ANCHOR BOLTS

STRUCTURAL FLOOR SCHEDULE Type Mark Description 125mm S.O.G. C/W 152x152x10\10 WELDED WIRE MESH @MID-DEPTH. SLAB SHALL BEAR DIRECTLY ON COMPACTED GRANULAR, REFER TO GEO-TECNICAL REPORT FOR А SPECIAL REQUIREMENT 19mm PLYWOOD GLUED AND SCREWED 19mm PLYWOOD TOP & BOTTOM GLUED AND SCREWED C/W 2"x4" @ 400mm O.C.

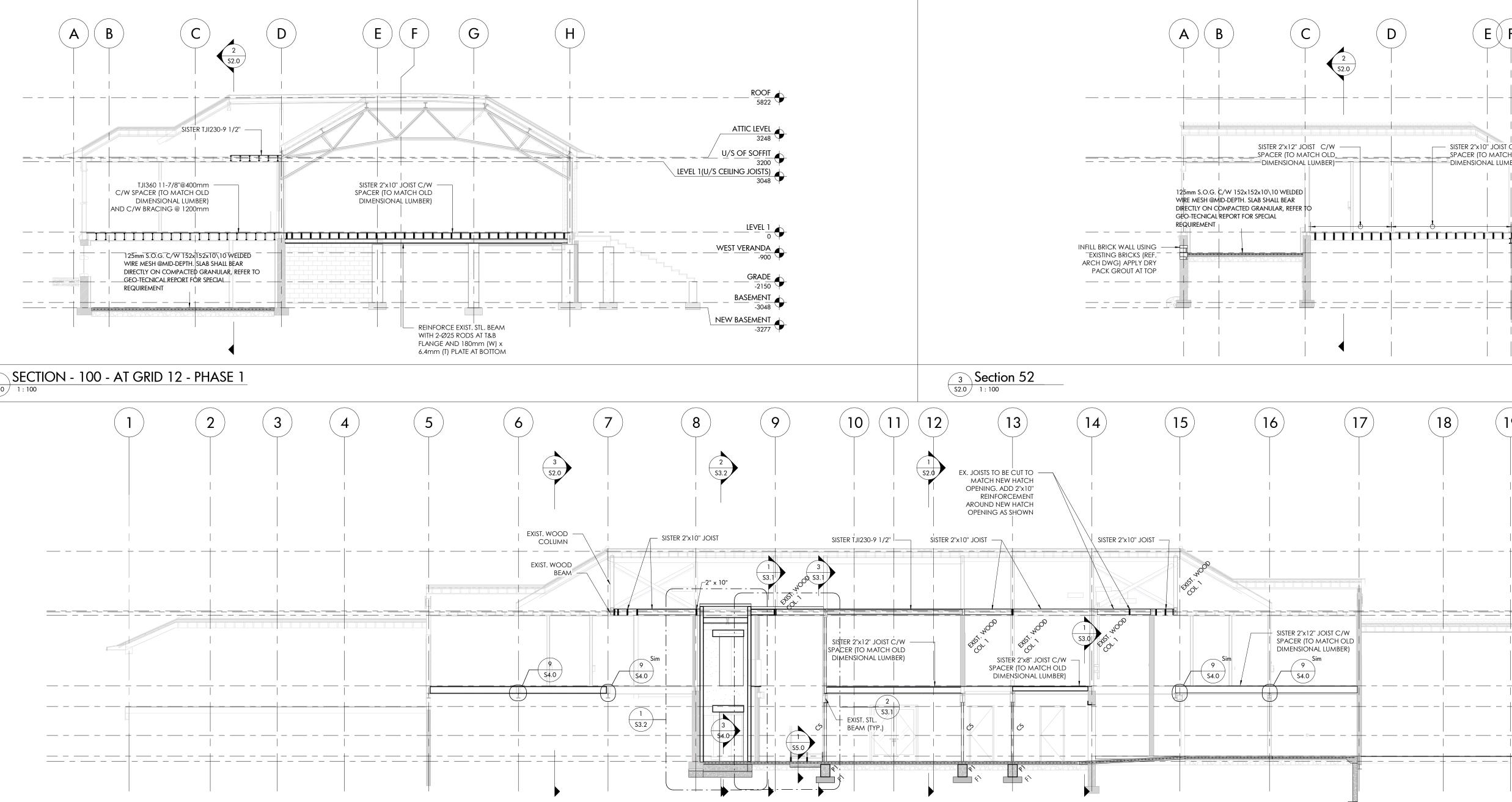
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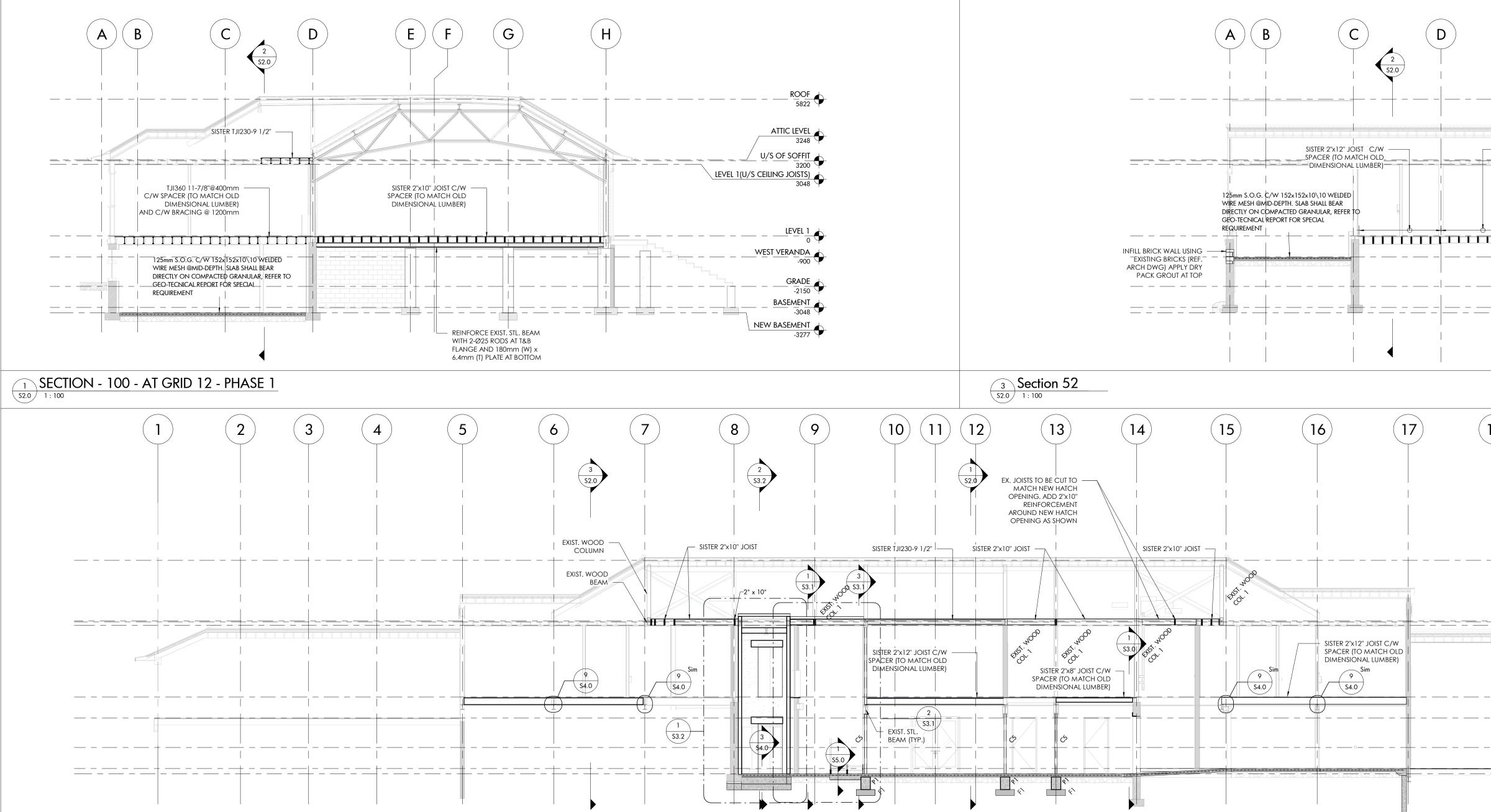
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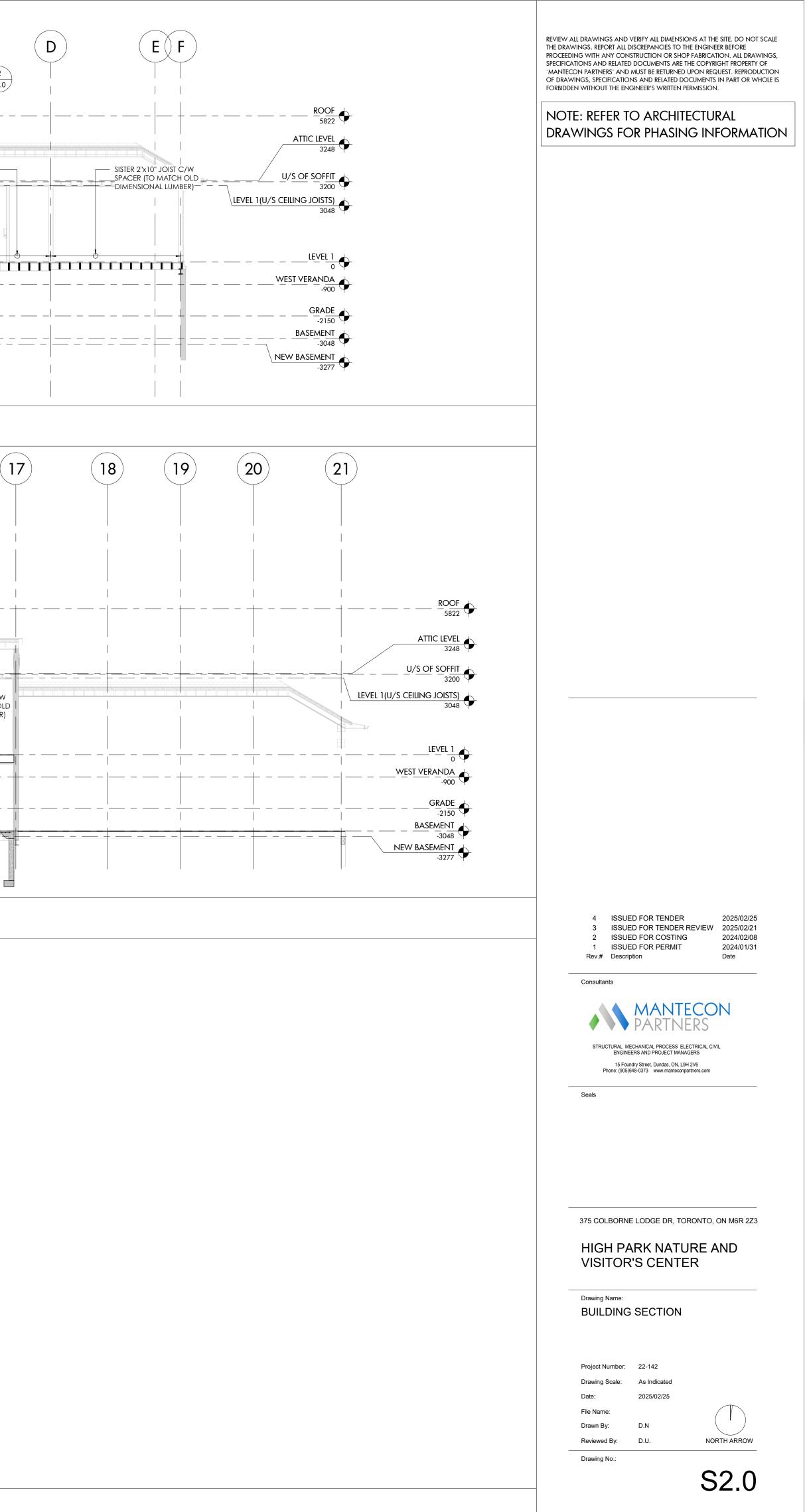
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Seals					
375 COLBORNE	E LODGE DR, TORC	ONTO, ON M6R 2Z3			
HIGH PARK NATURE AND VISITOR'S CENTER					
Drawing Name:					
ATTIC PLA	AN - PHASE 1				
Project Number:	22-142				
Drawing Scale:	As Indicated				
Date:	2025/02/25				
File Name:		\square			
Drawn By:	D.N				
Reviewed By:	D.U.	NORTH ARROW			

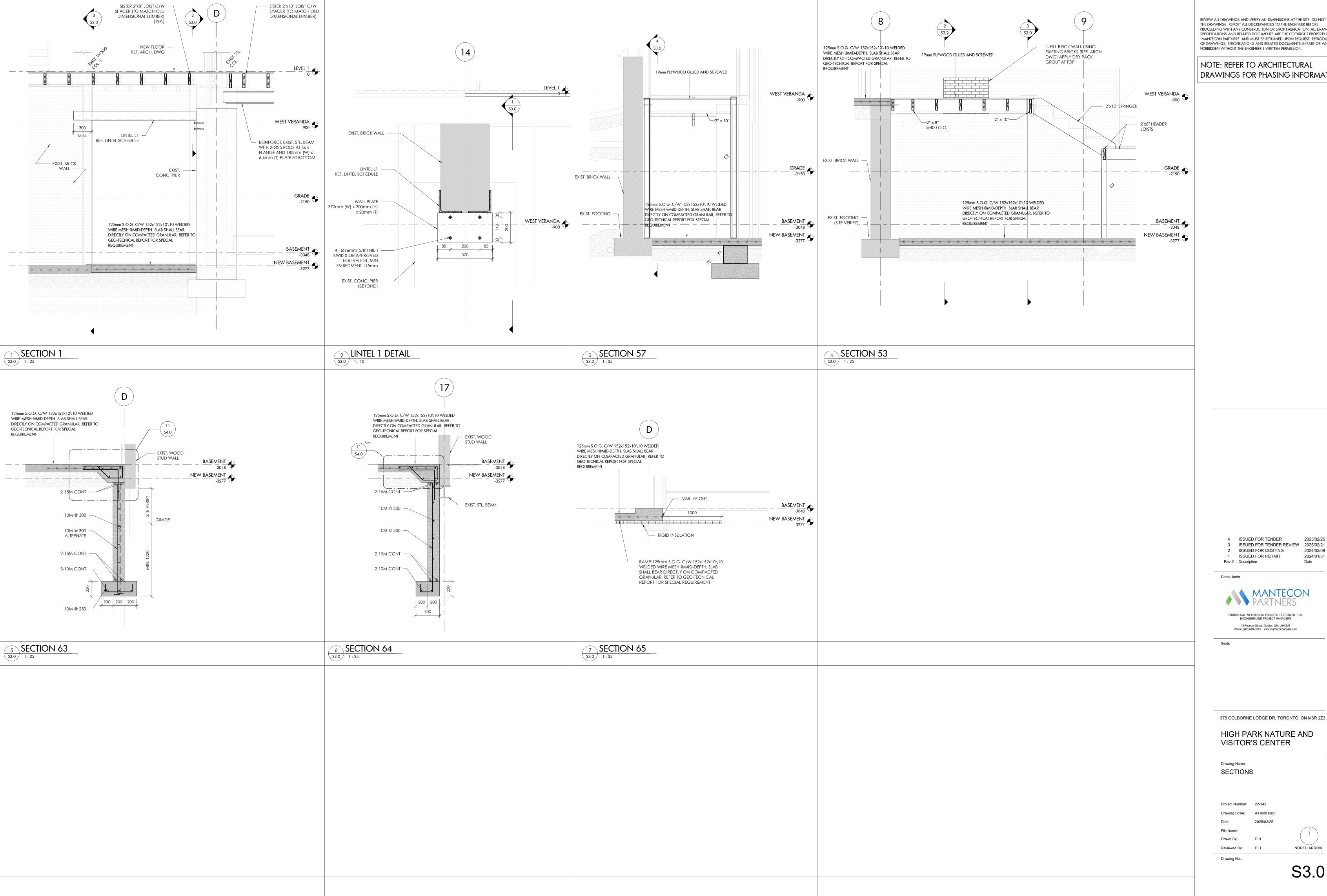
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2 SECTION - 100 - PHASE 1 52.0 1 : 100





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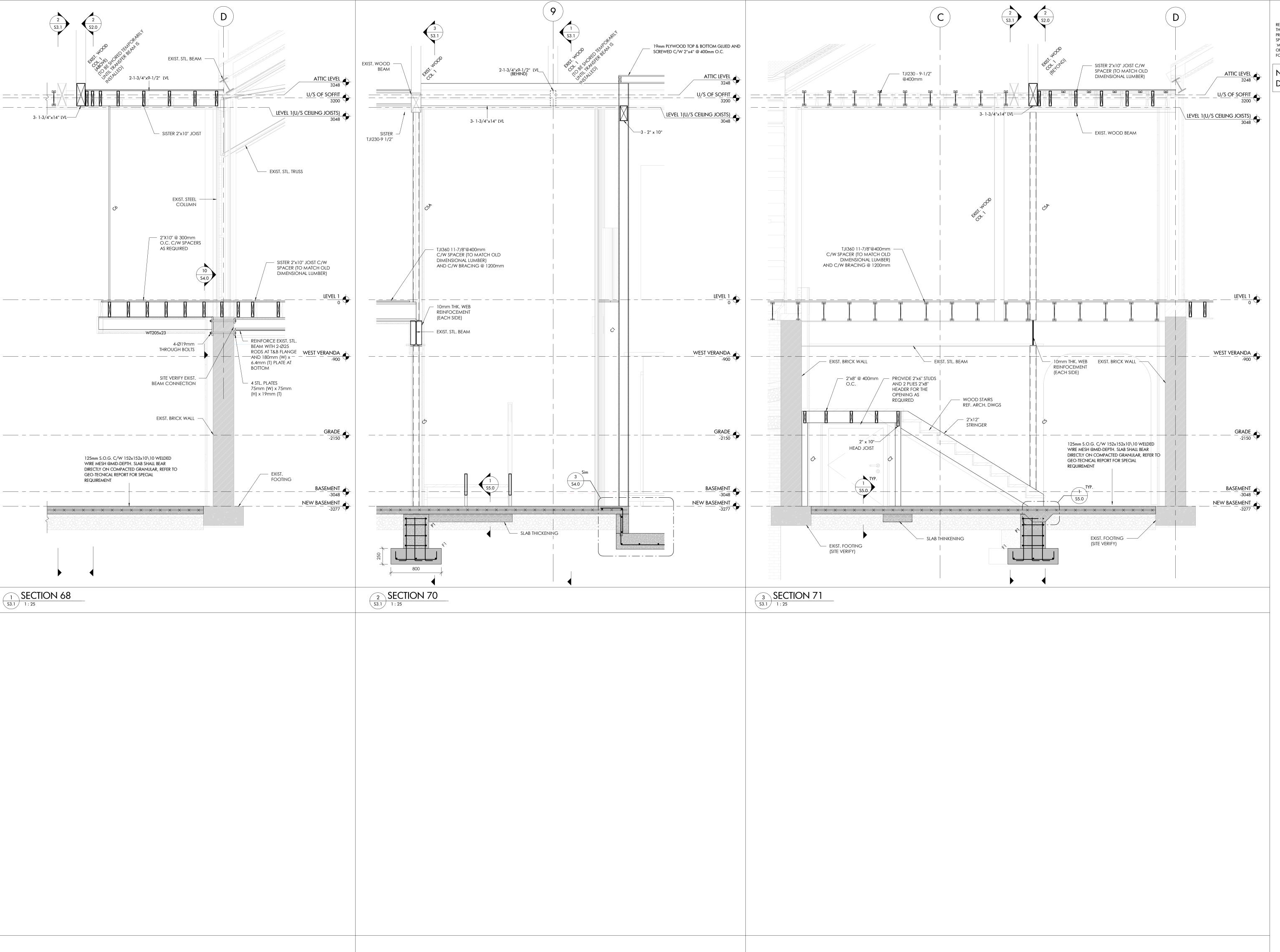
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375 COLBORNE	E LODGE DR, TOR	ONTO, ON M6R 2Z3
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Drawing Scale: Date: File Name: Drawn By:	As Indicated 2025/02/25 D.N	NORTH ARROW

4 ISSUED FOR TENDER

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Rev.# Description

Consultants

3 ISSUED FOR TENDER REVIEW 2025/02/21
2 ISSUED FOR COSTING 2024/02/08

PARTNERS

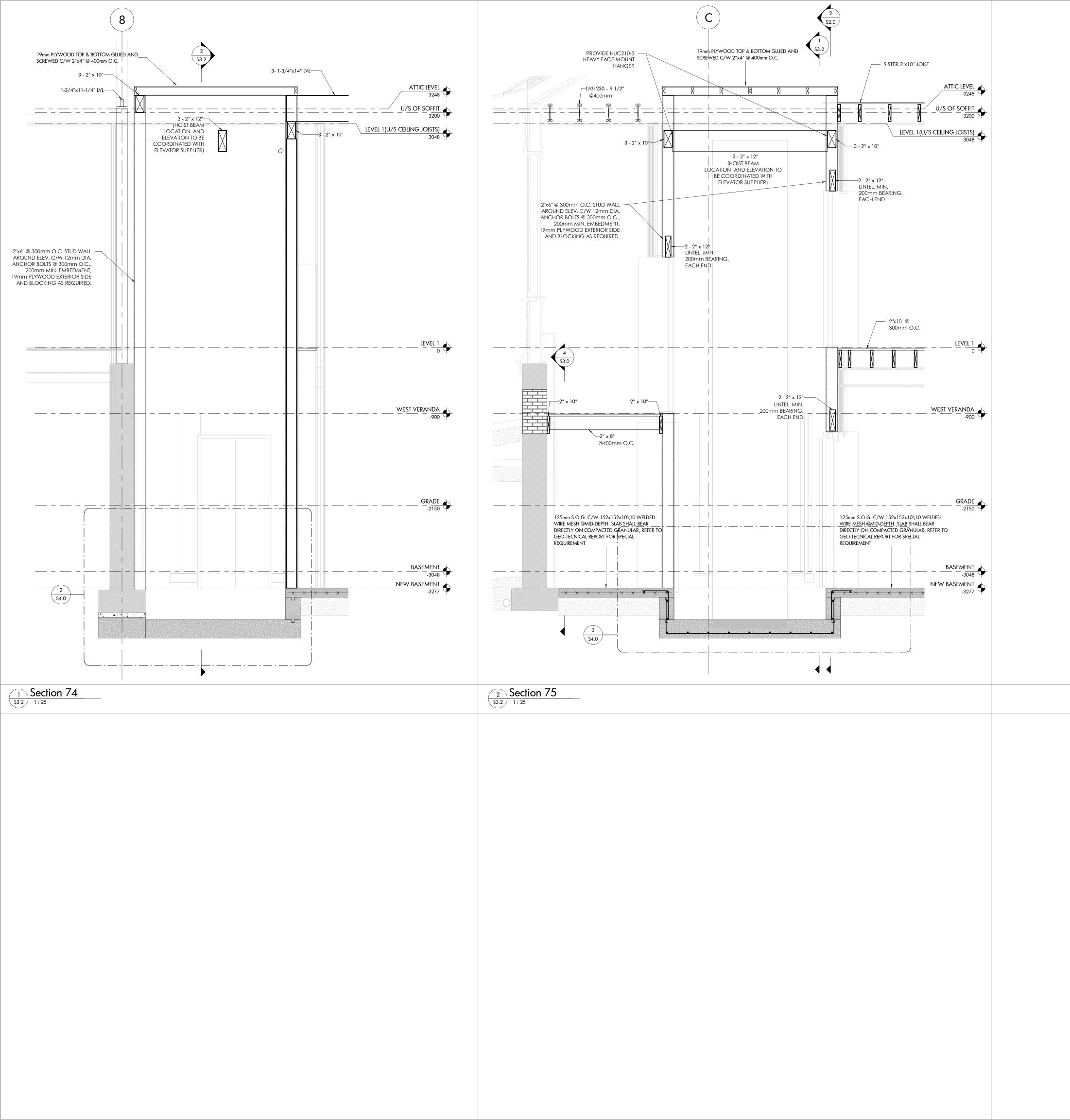
STRUCTURAL MECHANICAL PROCESS ELECTRICAL CIVIL ENGINEERS AND PROJECT MANAGERS

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Seals

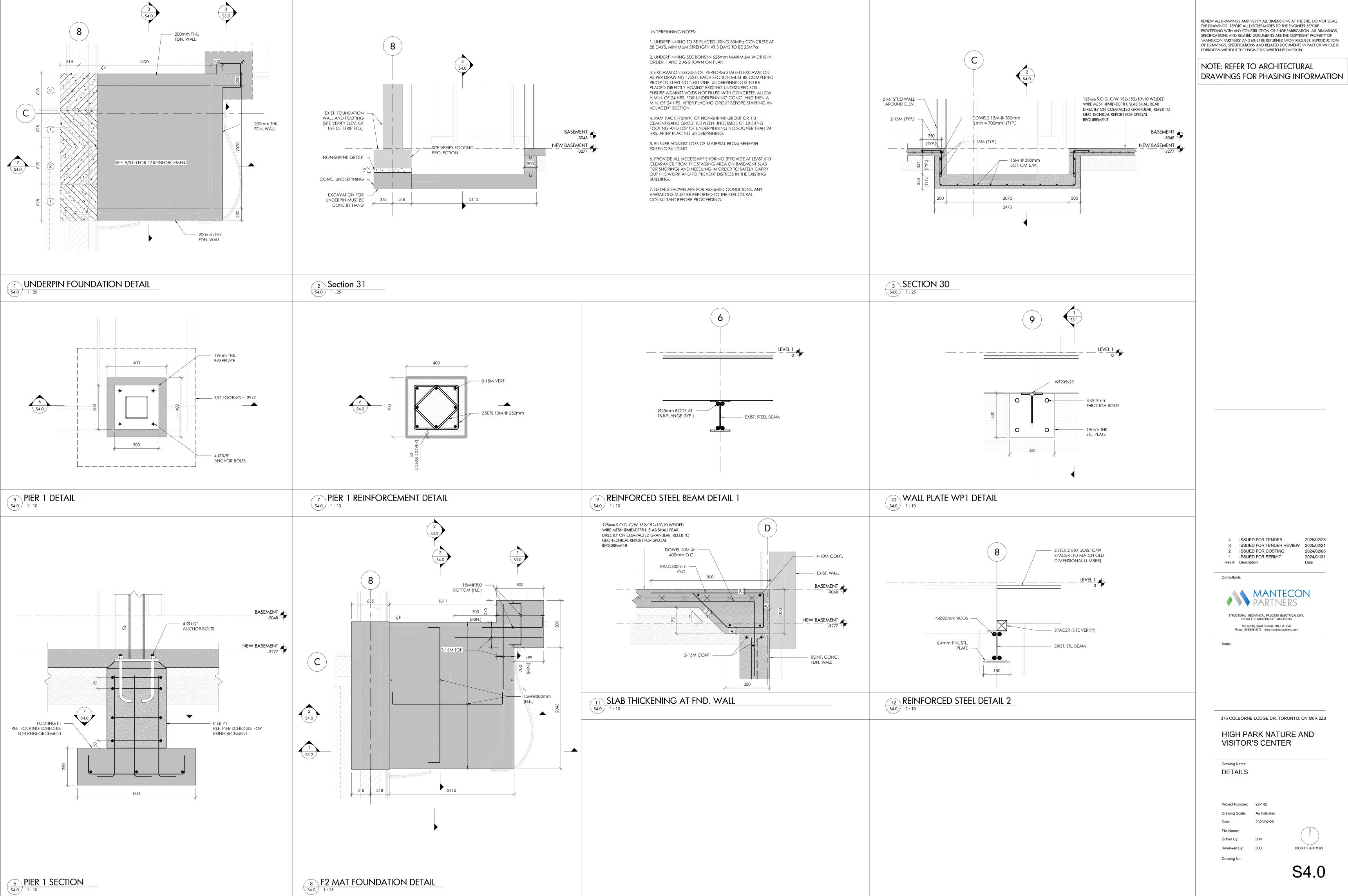
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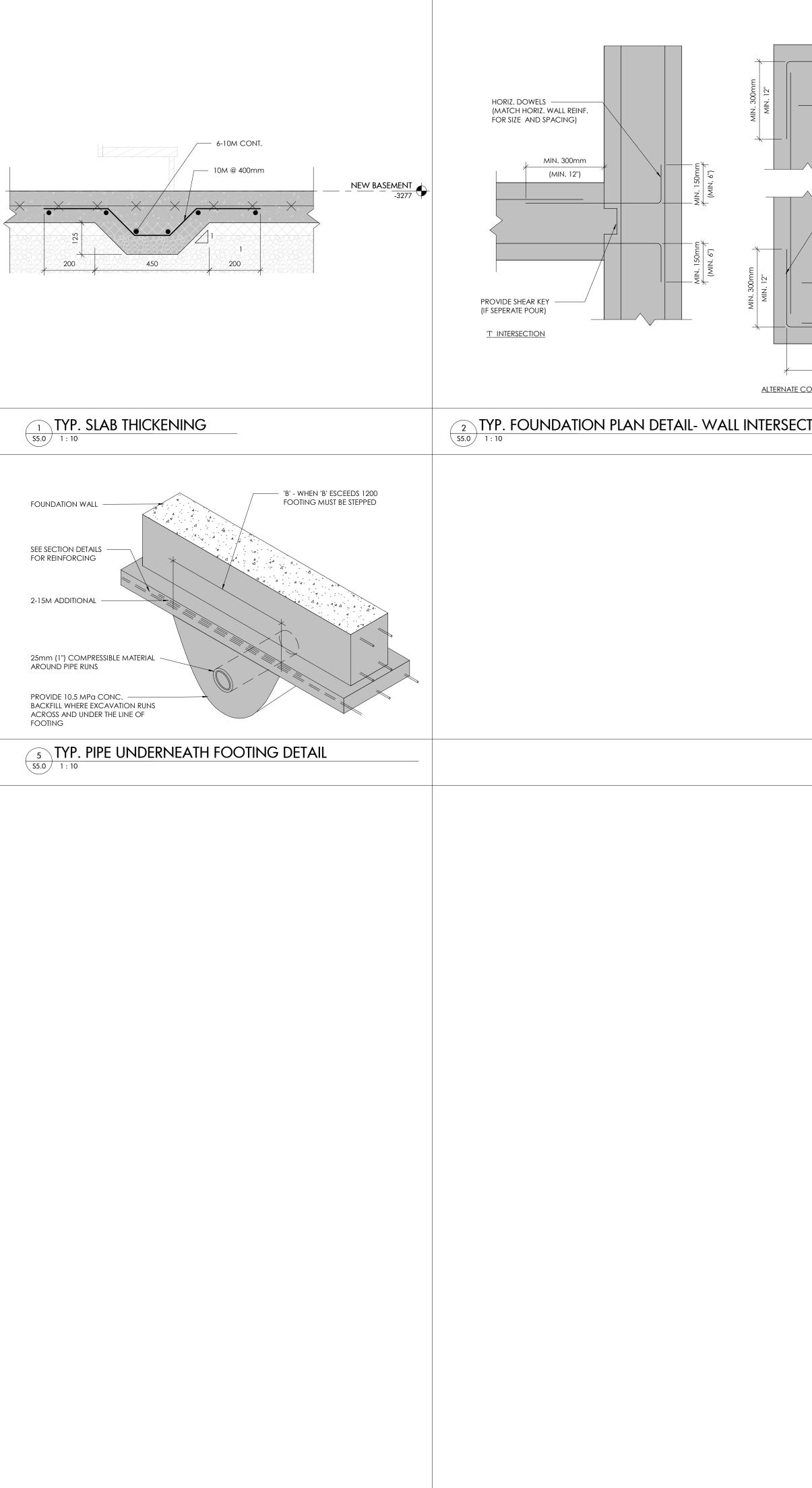
HIGH PARK NATURE AND VISITOR'S CENTER

Drawing Name: SECTIONS

Project Number:22-142Drawing Scale:As IndicatedDate:2025/02/25File Name:Image: Image: Image:

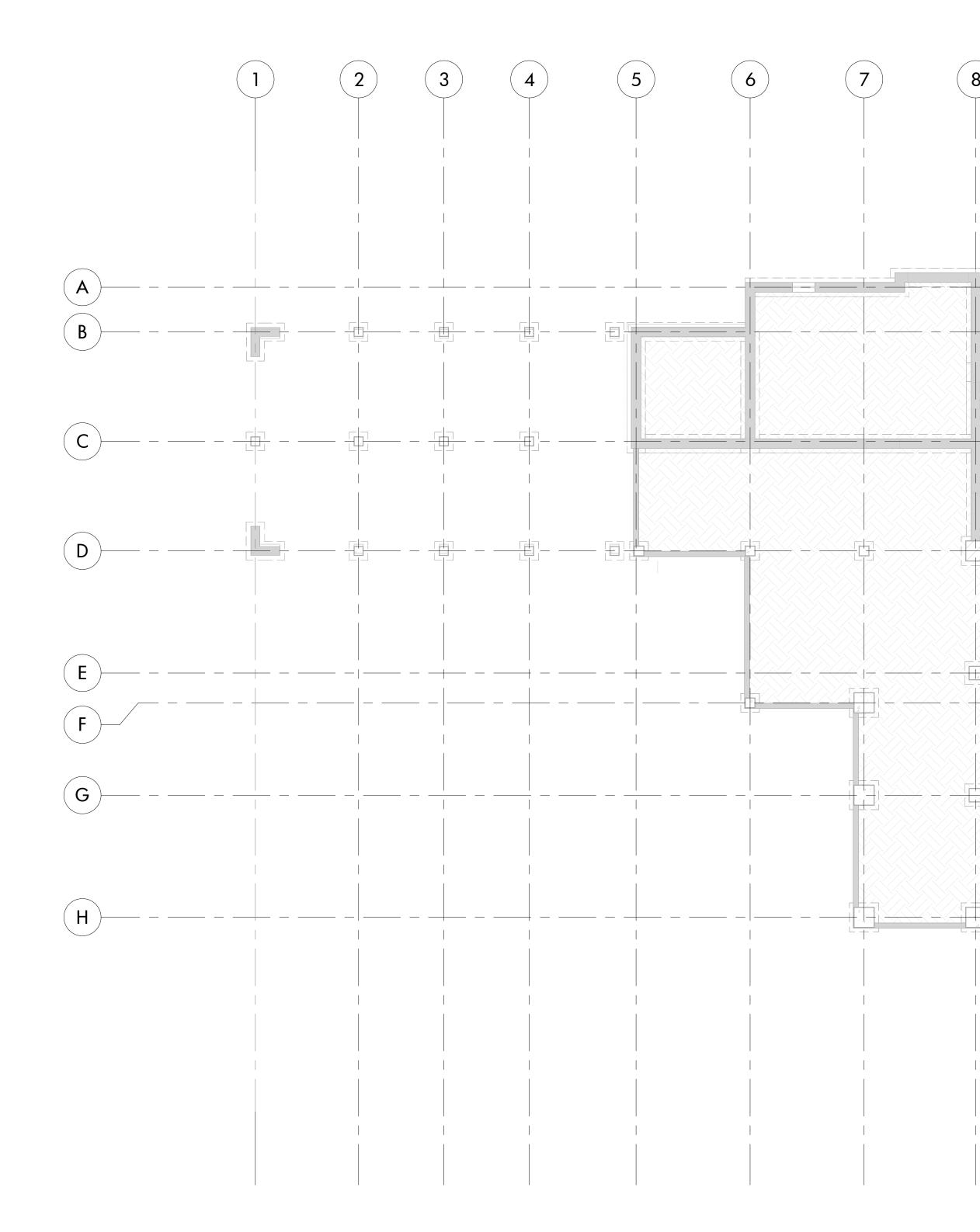




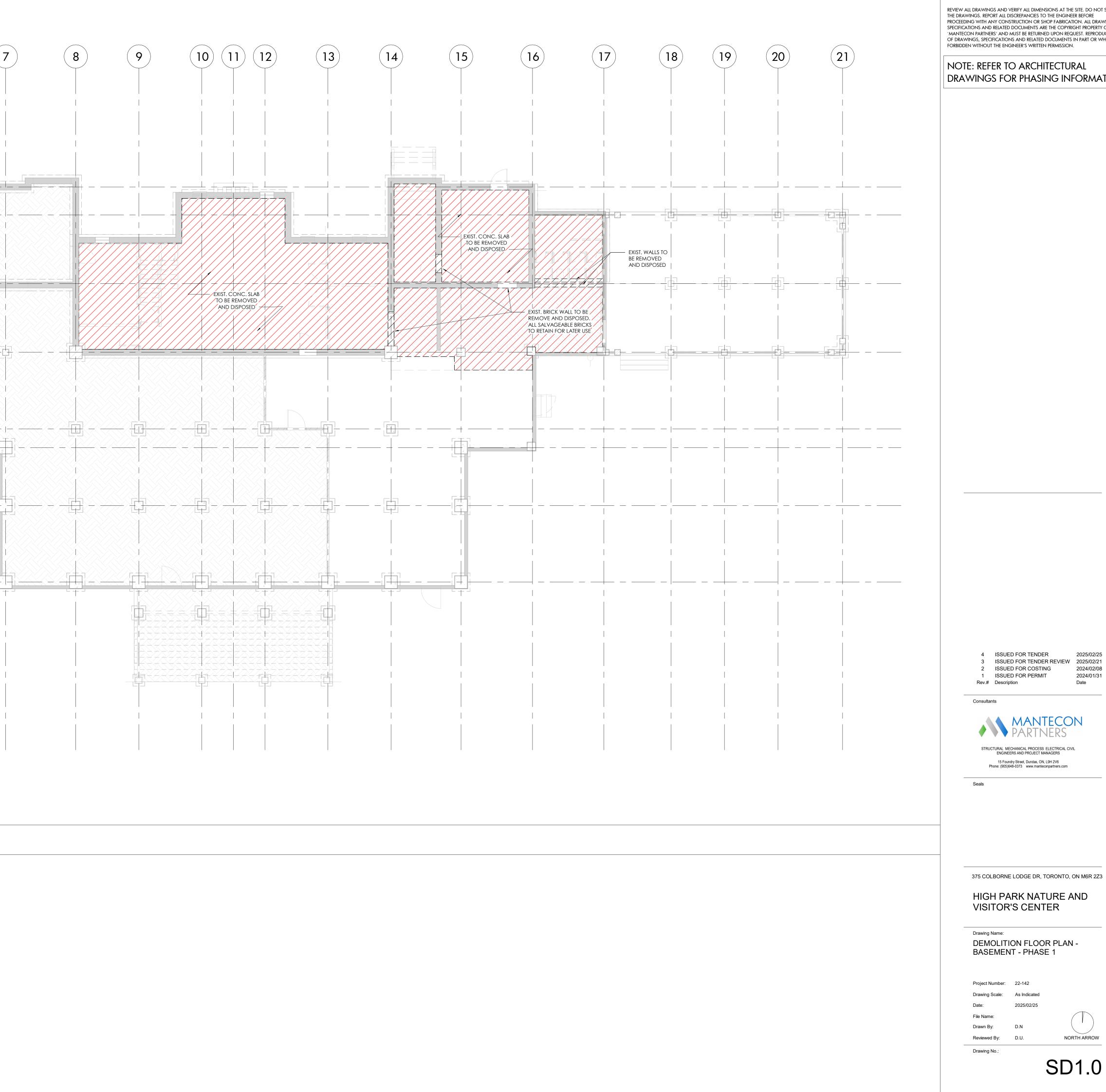


CORNER DETAIL MIN. 12"	FORMED FACE MIN. 130 I47 OR SLAB THICKINSS FROM COLUMN COLUMN FLEXBLE JOINT MATERIAL AROUND COLUMN	
CTION	3 S5.0 TYP. COLUMN ISOLATION JOINT 1:10	4 TYP. SAWC

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 LOCATE SAWCUTS ON COLUMN
 CENTRE LINES WHENEVER POSSIBLE
 OR AS SHOWN ON PLANS 6.4mm (1/4") CAULKING WCUT CONTROL JOINT IN SLAB ON GRADE 4 ISSUED FOR TENDER 2025/02/25 3 ISSUED FOR TENDER REVIEW 2025/02/21 2 ISSUED FOR COSTING 2024/02/08 1 ISSUED FOR PERMIT 2024/01/31 Rev.# Description Date _____ Consultants PARTNERS STRUCTURAL MECHANICAL PROCESS ELECTRICAL CIVIL ENGINEERS AND PROJECT MANAGERS 15 Foundry Street, Dundas, ON, L9H 2V6 Phone: (905)648-0373 www.manteconpartners.com Seals 375 COLBORNE LODGE DR, TORONTO, ON M6R 2Z3 HIGH PARK NATURE AND **VISITOR'S CENTER** Drawing Name: TYPICAL DETAIL Project Number: 22-142 Drawing Scale: As Indicated 2025/02/25 Date: $(\square$ File Name: D.N Drawn By: Reviewed By: D.U. NORTH ARROW _____ Drawing No.: S5.0



1 DEMOLISION BASEMENT FLOOR PLAN



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VISITOR'S CENTER

DEMOLITION FLOOR PLAN -BASEMENT - PHASE 1

Project Number: 22-142 Drawing Scale: As Indicated 2025/02/25 D.N D.U.

NORTH ARROW

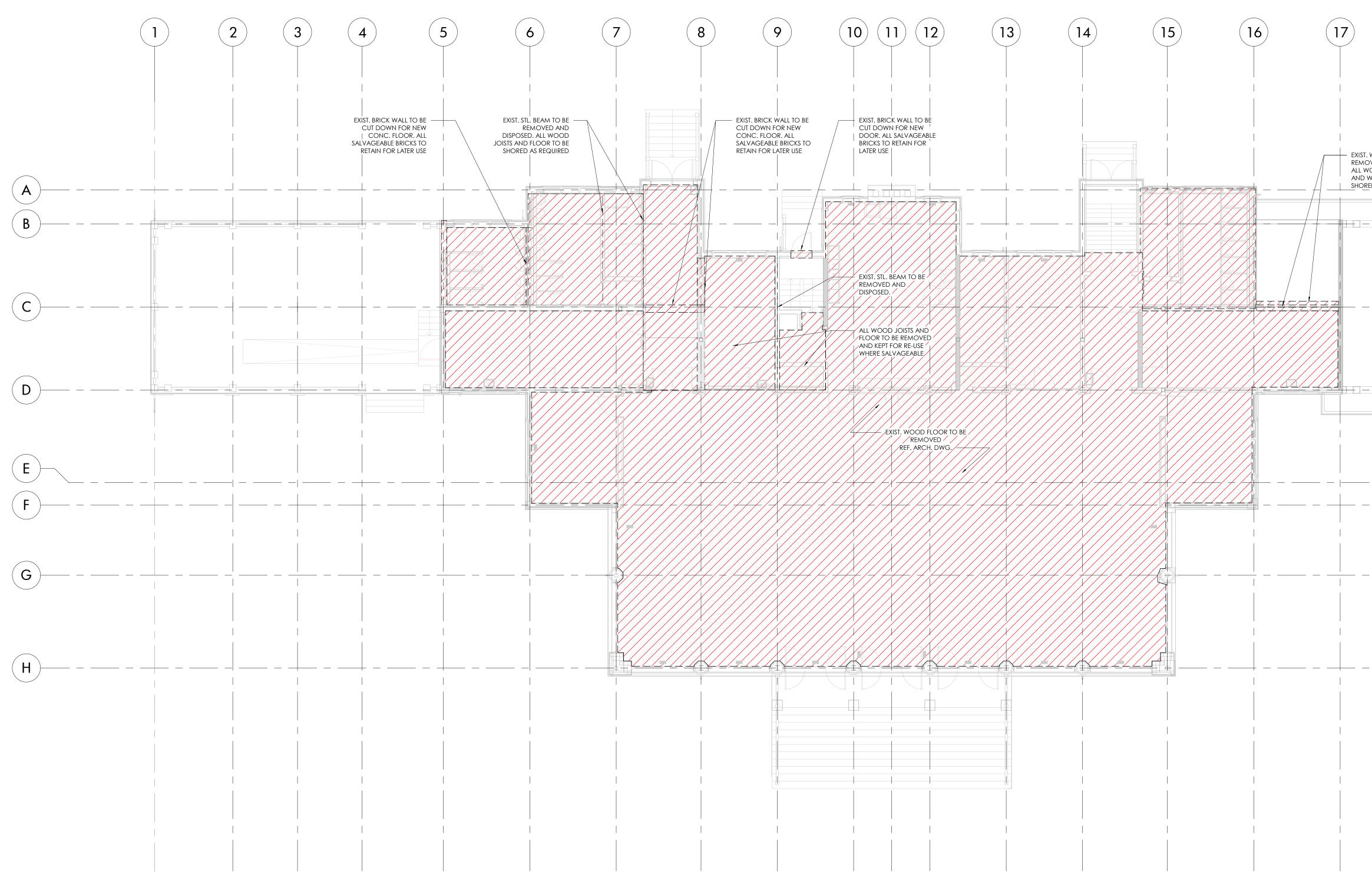
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2024/01/31

Date

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1 DEMOLISION LEVEL 1 FLOOR PLAN SD2.0 1 : 100

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				STRUCTURAL MECHANICAL PROCESS ELECTRICAL CIVIL ENGINEERS AND PROJECT MANAGERS 15 Foundry Street, Dundas, ON, L9H 2V6 Phone: (905)648-0373 www.manteconpartners.com
				375 COLBORNE LODGE DR, TORONTO, ON M6R 2Z3 HIGH PARK NATURE AND VISITOR'S CENTER
				Drawing Name: DEMOLITION FLOOR PLAN - FIRST FLOOR - PHASE 1 Project Number: 22-142 Drawing Scale: As Indicated
				Date: 2025/02/25 File Name: Image: Drawn By: Drawn By: D.N Reviewed By: D.U. NORTH ARROW Drawing No.: SD210