

## STRUCTURAL STEEL

- ALL STRUCTURAL STEEL ROLLED SECTIONS AND STRUCTURAL PLATES SHALL CONFORM TO THE LATEST EDITION OF CSA STANDARDS G40.21-M 350W. ALL HOLLOW STRUCTURAL SECTION SHALL CONFORM TO THE LATEST EDITION OF CSA STANDARD G40.21-M 350W.
- ALL ANCHOR BOLTS SHALL CONFORM TO THE LATEST EDITION OF ASTM A307 UNLESS OTHERWISE NOTED. BOLTED CONNECTION SHALL BE TORQUE-TESTED IN ACCORDANCE WITH THE LATEST EDITION OF CSA S16.1. ANCHOR BOLTS TO BE 3/4" x 18" C/W 3" HOOK.
- ALL WELDERS AND WELDING PROCEDURES TO BE CERTIFIED BY CANADIAN WELDING BUREAU.

## NON-STRUCTURAL ELEMENTS

- "NON-STRUCTURAL" OR "SECONDARY STRUCTURAL" ELEMENTS ARE NOT THE RESPONSIBILITY OF THE CONTRACT ADMINISTRATOR. THEY ARE DESIGNED, DETAILED AND REVIEWED IN THE FIELD BY OTHERS. WHERE STRUCTURAL ENGINEERING RESPONSIBILITY IS REQUIRED BY BUILDING PERMIT AUTHORITIES FOR THESE ELEMENTS, THE CONTRACTOR SHALL PROVIDE THE REQUIRED LETTERS OR DRAWINGS FROM A STRUCTURAL ENGINEER.

- EXAMPLES OF NON-STRUCTURAL ELEMENTS INCLUDE, BUT ARE NOT LIMITED TO:
  - ARCHITECTURAL COMPONENTS SUCH AS GUARDRAILS, HANDRAILS, CEILINGS, MILLWORK ETC.
  - LANDSCAPE ELEMENTS SUCH AS BENCHES, LIGHT POSTS, PLANTERS, ETC.
  - CLADDING, GLAZING, WINDOW MULLIONS, INTERIOR STUD WALLS AND EXTERIOR STUD WALLS.
  - ARCHITECTURAL PRECAST, PRECAST CLADDING.
  - MECHANICAL AND ELECTRICAL EQUIPMENT, COMPONENTS, AND THEIR ATTACHMENT DETAILS.
  - ELEVATORS AND CONVEYING SYSTEMS.
  - BRICK OR BLOCK VENEERS AND THEIR ATTACHMENTS.
  - NON-LOAD BEARING MASONRY.
  - NON-STRUCTURAL CONCRETE TOPPING
  - ALUMINUM SKYLIGHTS.

- SHOP DRAWINGS FOR NON-STRUCTURAL ELEMENTS WHICH MAY AFFECT THE PRIMARY STRUCTURAL SYSTEM SHALL BE SUBMITTED TO TOWER ENGINEERING GROUP THESE DRAWINGS WILL BE REVIEWED ONLY FOR THE EFFECT ON THE PRIMARY STRUCTURAL SYSTEM.

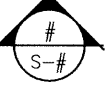
## STRUCTURAL MOVEMENTS/ TOLERANCES

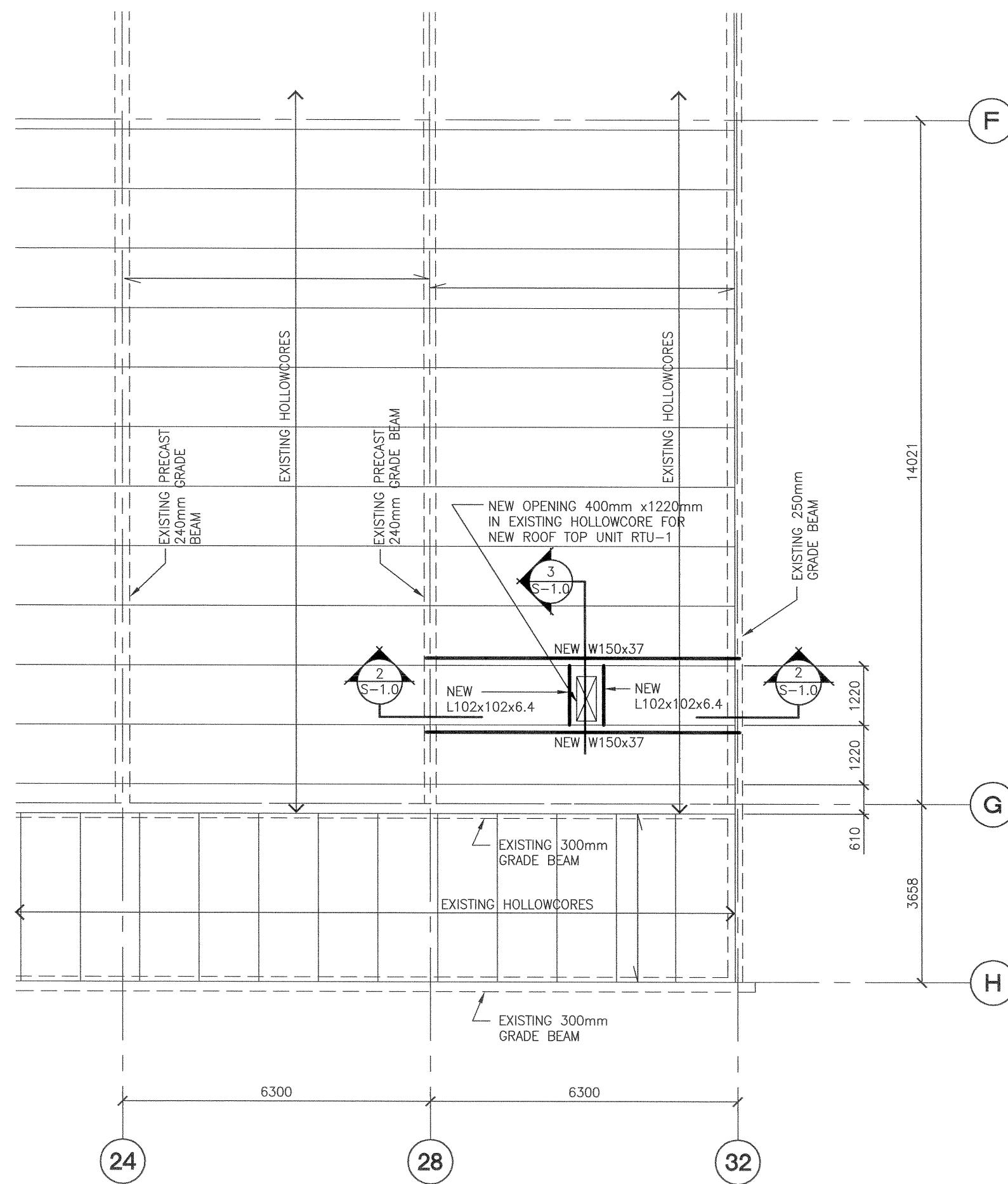
THIS STRUCTURE WILL UNDERGO NORMAL TYPES OF MOVEMENT AND DEFLECTION AND THE NON-STRUCTURAL COMPONENTS MUST BE DETAILED TO ACCOMMODATE THIS. DRYWALL PARTITIONS, MECHANICAL EQUIPMENT, ELECTRICAL EQUIPMENT AND BUILDING FIXTURES MUST BE DETAILED AND INSTALLED TO ACCOMMODATE SLAB MOVEMENT. ALL STRUCTURES ARE SUBJECT TO CONSTRUCTION TOLERANCES. THIS SHOULD BE ALLOWED FOR IN DETAILING NON-STRUCTURAL COMPONENTS.


## ABBREVIATIONS

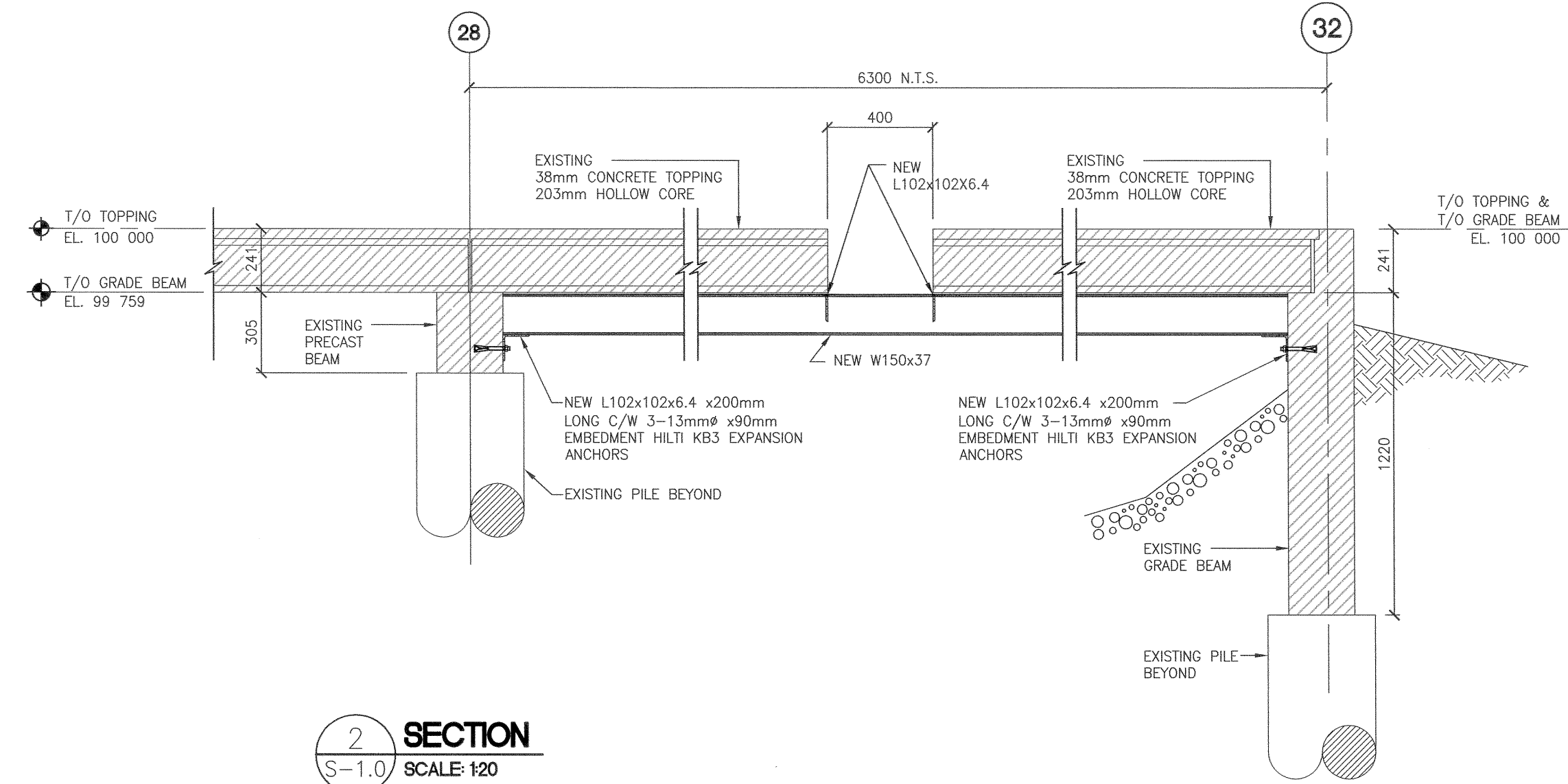
ALT.----- ALTERNATE	N.T.S.----- NOT TO SCALE
BOT.----- BOTTOM	O/C----- ON CENTER
B.W.----- BOTH WAYS	R/W----- REINFORCED WITH
C/W----- COMPLETE WITH	S.D.L.----- SUPERIMPOSED DEAD LOAD
D.L.----- DEAD LOAD	SIM.----- SIMILAR
E.E.----- EACH END	S.O.G.----- SLAB ON GRADE
E.F.----- EACH FACE	STAG.----- STAGGER
E.S.----- EACH SIDE	S.J.----- STRUT JOIST
E.W.----- EACH WAY	TYP.----- TYPICAL
H.1.E.----- HOOK ONE END	T/O----- TOP OF
H.2.E.----- HOOK TWO ENDS	T1E.----- TIE ONE END
H & V----- HORIZONTAL AND VERTICAL	T & B----- TOP AND BOTTOM
HORIZ.----- HORIZONTAL	T & C----- TENSION AND COMPRESSION
LL.----- LIVE LOAD	U.N.O.----- UNLESS NOTED OTHERWISE
MAX.----- MAXIMUM	VERT.----- VERTICAL
MIN.----- MINIMUM	

## GENERAL NOTES

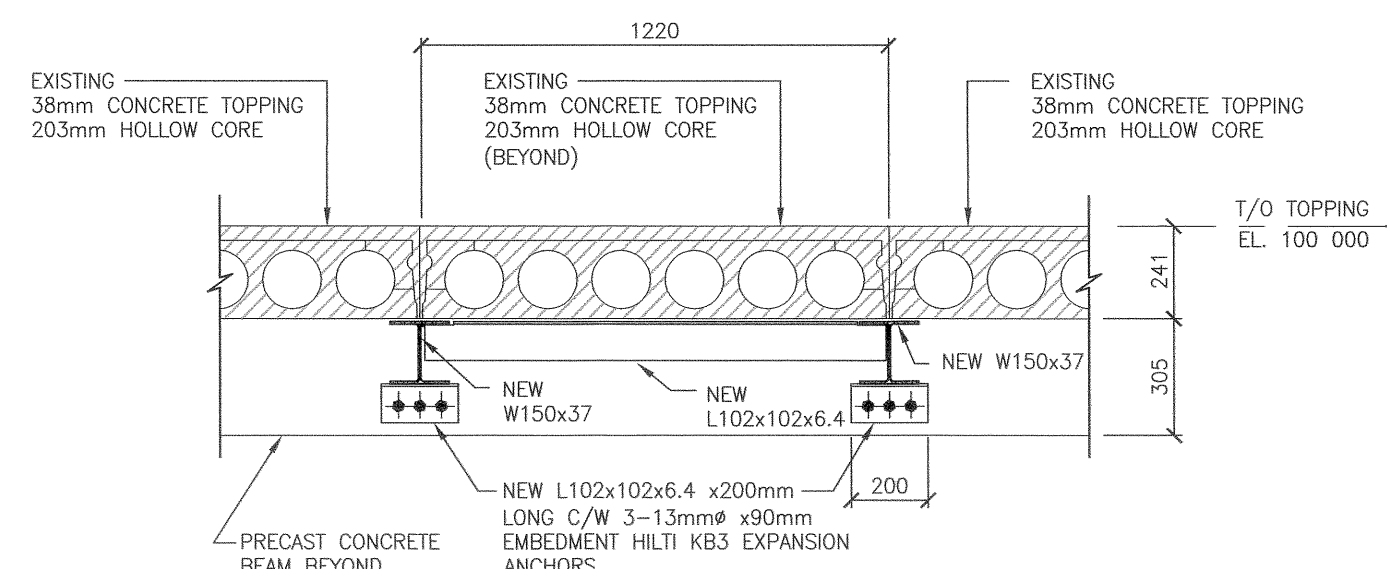
- THIS SET OF DRAWINGS SHOWS THE COMPLETED PROJECT. THEY DO NOT INCLUDE COMPONENTS THAT MAY BE NECESSARY FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS RESPONSIBLE FOR SAFETY IN AND ABOUT THE JOB SITE DURING CONSTRUCTION, AND THE DESIGN AND ERECTION OF ALL TEMPORARY STRUCTURES. FORM WORK, FALSE WORK, SHORING, ETC. REQUIRED TO COMPLETE THE WORK.
- SECTION MARKER SHOWN THUS  MEANS SECTION # SHOWN ON DRAWING SHEET S-#.
- SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR SLEEVES, NAILERS, INSERTS, ETC. TO BE ENCASED IN CONCRETE.
- THE CONTRACTOR SHALL REVIEW ALL THE DRAWINGS AND CHECK DIMENSIONS BEFORE CONSTRUCTION. REPORT DISCREPANCIES BETWEEN STRUCTURAL AND OTHER DISCIPLINES DRAWINGS FOR CLARIFICATION.
- DO NOT CUT OR DRILL ANY OPENINGS IN STRUCTURAL MEMBERS WITHOUT THE WRITTEN PERMISSION OF THE CONTRACT ADMINISTRATOR. CONTRACTOR TO PROVIDE APPROPRIATE ATTACHMENTS AND CONNECTIONS FOR MECHANICAL, ELECTRICAL, AND OTHER SERVICES WITHOUT CUTTING OR DRILLING.
- REFER TO ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS, CONFIGURATIONS, EXTENT, AND SIZES OF ALL CURBS, UPSTANDS, DOWNTURNS; AND FOR OPENINGS THROUGH FLOORS AND WALLS FOR DUCTS.
- THE CONTRACTOR SHALL PROVIDE REASONABLE NOTICE TO THE CONTRACT ADMINISTRATOR PRIOR TO POURING CONCRETE OR CONCEALING ANY STRUCTURAL COMPONENTS. THE PURPOSE OF THIS NOTICE IS TO ENABLE THE CONTRACT ADMINISTRATOR TO CONDUCT ANY REQUIRED FIELD REVIEWS.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURAL COMPONENTS TO CONTRACT ADMINISTRATOR FOR REVIEW PRIOR TO FABRICATION. SHOP DRAWINGS TO INCLUDE SEAL AND SIGNATURE OF A PROFESSIONAL ENGINEER FOR DESIGN OF COMPONENTS AND/OR CONNECTIONS AS REQUIRED. SUCH REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY FOR ERRORS AND OMISSIONS IN THE SHOP DRAWINGS, OR FOR MEETING ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- ALL EXPOSED STRUCTURAL STEEL SHALL BE PRIMED.



 **1 PARTIAL MAIN FLOOR PLAN**  
SCALE: 1/100



**2 SECTION**  
SCALE: 1/20

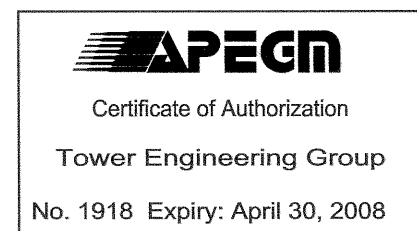
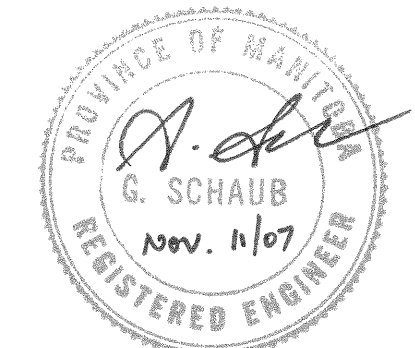


**3 SECTION**  
SCALE: 1/20

NO.	REVISIONS	DATE	BY
2	REVISED PRIOR TO TENDER	11/07/07	G.T.
1	ISSUED FOR TENDER	08/08/07	AW
0	ISSUED FOR FINAL REVIEW	07/16/07	GT

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SEAL  SEAL 

PROJECT  
**CITY OF WINNIPEG**  
**CENTENNIAL SWIMMING POOL**  
90 SINCLAIR STREET  
WINNIPEG, MB

DRAWING  
**PARTIAL MAIN FLOOR PLAN**  
**AND SECTION**

DESIGNED: AW	SHEET
DRAWN: SM	<b>S-1.0</b>
CHECKED: AW	REVISION
SCALE: AS NOTED	<b>R-2</b>
DATE: JUL 16/07	
PROJECT NO.: 6194	