

#### DESIGN LOADS:

All loads are unfactored.

**Roof Loads:**  
Live Loads = 1.36 kPa (Ss = 1.2 kPa, Sr = 0.4 kPa)  
Water Storage = 1.47 kPa  
Dead Loads = 10.1 kPa (Slab, Beam, Collateral and Mechanical)

**Floor Loads:**  
Live Loads = 1.9 kPa (Private) 4.8 kPa (Public)  
Dead Loads = 8.6 kPa

**Parking Deck Loads:**  
Live Loads = 1.9 kPa  
Dead Loads = 20 kPa

**Earthquake Loads:**  
 $Sa(0.2) = 0.190$   
 $Sa(0.5) = 0.120$   
 $Sa(1.0) = 0.072$   
 $Sa(2.0) = 0.023$   
PGA = 0.074

**Wind Loads:**  
 $q_{\text{d}} = 0.48 \text{ kPa}$

#### GENERAL:

- All materials and workmanship shall be in conformance with the Ontario Building Code.
- Where standards published by various organizations are referred, conform to latest edition of standards as amended and revised to date of contract.
- All dimensions, elevations, openings for pipes, sleeves, equipment locations and the like shall be checked with the architectural and the appropriate structural, mechanical or electrical drawings. Report any discrepancies before proceeding with the work.
- Do not scale the drawings.
- The Contractor shall examine the site and satisfy himself of the actual conditions and requirements of the work.
- Check underground utilities and assume responsibility for same during construction.
- Set all anchors, inserts, etc. as required by other trades.
- The Contractor shall caulk and seal all joints, spaces, etc. to provide a weather-tight building.
- The Contractor shall make any necessary allowances for any variations and/or any revisions made on account of sub-trades and product selection for the completion of the project.
- Features of construction not fully shown shall be of the same character as shown for similar conditions.
- Confirm all measurements that govern the scope of work built into existing building.

#### EXCAVATION, GRADING & BACKFILLING:

- Refer to soil test report, if there is any, for the borehole data and site conditions.
- The accuracy of the soil test report is not guaranteed. Soil data applies for actual test pit location and conditions may differ at other parts of the site.
- All spread footings shall be placed on undisturbed native material. Have base inspected by Engineer before placing footing.
- Design bearing pressure to be 200 kPa (SLS) as per cambiums geotechnical report.
- Excavate and remove all fills, surface features and topsoil from building area before starting the work.
- Protect foundations, slabs on grade, footings, and adjacent soil against freezing and frost action at all times during construction.
- Backfill footings using approved free draining materials.
- Place backfill simultaneously on both sides of walls below grade.
- Slab on grade shall be placed on soil capable of safely sustaining 30 kPa without settlement related to building footings.
- Slab on grade shall be, unless otherwise stated, 100mm thick poured concrete reinforced with 152x152 MW18.7/MW18.7 WWF, on 150mm deep crushed stones compacted to at least 96% standard proctor maximum dry density.
- Restore exterior surfaces to condition equal to that existing prior to excavation unless otherwise noted.

#### CONCRETE & REINFORCING STEEL:

- Concrete construction shall conform to CAN/C.S.A. A23.1-14.
- Concrete compressive strength to be 30MPa at 28 days, maximum aggregate size to be 20mm, slump to be 75mm maximum, unless otherwise stated.
- Concrete cover for reinforcements shall be in accordance with Ontario Building Code and C.S.A. A23.1-14.
- Exposed concrete shall have air entrainment of 6-7%.
- Form all vertical surfaces of concrete work, where neat excavation in native soil are possible. Concrete for footings need not be formed.
- All floor surfaces shall be level to a tolerance of 10mm and not out of plane by more than 3mm on 300mm template. Steel trowel finish all floors.
- Reinforcing steel shall be in accordance with C.S.A. G30.18-M92, Grade 400.
- Welded wire fabric shall be in accordance with C.S.A. G30.15-M83.
- The Contractor shall prepare and submit six (6) copies of shop drawings indicating material, size, spacing, and location of reinforcing steel, anchors, and details.
- Reinforcing bars shall be continuous across construction joints and elevation variations unless noted. Continuous bars shall be fully developed by lapping where spliced.

#### MASONRY:

- Masonry work shall be in accordance with C.S.A. standards A371-14 and the Ontario Building Code.
- Modular concrete block masonry units conform to C.S.A. A165.1-14, A165.2-14 and A165.3-14. Solid block and semi-solid block shall be used in locations shown on drawings.
- Masonry mortar for load bearing walls shall be type S conforming to C.S.A. A179-14.
- Install continuous bond beam where open web steel joist bear on masonry walls unless otherwise noted.
- Over openings or recesses in masonry walls including those for mechanical or electrical services and equipments, provide lintels as per lintel schedule. Where no lintel schedule is provided supply masonry lintels reinforced with 1-10mm reinforcing bars at bottom. Provide minimum 100mm bearing at each end.
- Provide cavity wall reinforcement in all masonry walls. For block and brick walls - Tri-Loc BL11 (Blok-Lok). For plain masonry - heavy duty ladder type masonry reinforcement to suit block size.
- Concrete fill for masonry units to have a minimum compressive strength of 25 MPa at 28 days unless otherwise noted.
- Where bricks are indicated, supply metric modular bricks of type shown unless otherwise noted. Compressive strength of bricks to exceed 40 MPa. Provide solid masonry units below all beams and lintel bearings.
- Where anchors are cast into masonry, fill voids with concrete to two (2) courses below bearing and a minimum of 200mm each side of bearing.
- Provide solid reinforcing core with 1 - 15M continuous adjacent to all wall and door openings and building corners.

#### PRECAST CONCRETE SLAB:

- Pre-cast pre-stressed hollow core slabs shall be designed in accordance with C.S.A. A23.1-14 under the supervision of a Professional Engineer in the Province of Ontario.
- Shop drawings showing the hollow core slab layout, and details of prestressing and reinforcement shall be submitted to the Consultant for review prior to manufacturing.
- Concrete shall have a minimum compressive strength of 31 MPa. at transfer and 41 MPa. at 28 days.
- The pre-stress strand shall be uncoated 7-wire cable conforming to C.S.A.-CAN3-A23.4-M78 and ASTM A416, A421.
- Provide approved grout having minimum compressive strength of 35 MPa. at 28 days for shear keys in slab joints.
- Provide 10mm dowels to masonry at each joint between slabs at end bearing and at 2400mm on centre at junction between edge of slabs and end wall. Grout or concrete fill side ties to wall.

#### STEEL - INSPECTION AND TESTING:

- The undertaking to inspect welding shall be qualified in accordance with the requirements of CSA W178.1, "Certification of Welding Inspection Organizations", and certified by the Canadian Welding Bureau.
- The inspection shall cover all moment connections to review for compliance with the CSA S16.
- The inspection agency shall submit reports to the consultant covering the work inspected and provide details of nonconformities or deficiencies observed.

#### STRUCTURAL STEEL:

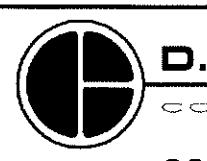
- Rolled shapes and plates shall conform to CAN/C.S.A. G40.20-13/G40.21-13 (R.2018), Grade 350W.
- Hollow structural sections shall conform to CAN/C.S.A. G40.20-13/G40.21-13 (R.2018), Grade 350W.
- Pipe column sections shall conform to ASTM A53, 240 MPa.
- Bolts to be A325 high strength steel bolts for friction type connections, and A307 for anchor bolts.
- Steel deck finish to be zinc coated to A.S.T.M. A123M-17
- Fabrication, erection and workmanship shall be performed by a welder qualified under C.S.A. W47.
- Surfaces to be welded shall be thoroughly cleaned of all foreign matter including paint film.
- All welded joints shall use E49XX electrodes. Connections that are friction type shall use 20mm diameter ASTM A325-14 high strength bolts unless otherwise noted.
- All steel deck shall be in conformance with C.S.A. S-136-17 and shall be designed to safely support all the loads indicated on the drawings.
- Steel decks to be designed to act as diaphragms. Decks to have wipe coat galvanized finish unless noted otherwise on drawings.
- Steel decks and joists shall have a maximum deflection under live load of 1/240 of span.
- Shop prime all structural steel with primer. Do not paint contact surfaces of joints or surfaces to receive field welds.
- The Contractor shall prepare and submit to the Consultant for review six (6) copies of erection diagrams and shop drawings indicating material, size, spacing and location of structural steel members, connection, bridging, reinforcing, bearing shoes, anchors, elevations and details.
- The Contractor shall prepare and submit to the Consultant six (6) catalogues or tables of joists and steel deck checked and approved by a Professional Engineer of Ontario.
- All loads specified are unfactored in accordance with C.S.A. S16.

#### COLD FORMED STEEL:

- Unless otherwise specified, Cold Formed Steel to conform to CSA-S16, Steel Structures for Building - Limit States Design and CAN/CSA-S136, Cold Formed Steel Structural Members.
- Work to be executed by firm thoroughly conversant with laws, by-laws and regulations which govern, and capable of workmanship of best grade of modern shop and field practice known to recognized manufacturer's specializing in this work.
- Work shall be executed by workers especially trained and experienced in this type of work. Have a full time, senior, qualified representative at the site to direct the work.
- Install system to provide for movement of components without damage, failure of joint seals, undue stress on fasteners, or other detrimental effects when subject to seasonal or cyclic day/night temperature ranges.
- Install system to accommodate construction tolerances, deflection of building structural members, and clearances of intended openings.
- Galvanized Sheet Steel shall conform to ASTM A653/A653M, minimum Grade D, 50 PSI (345 MPa) yield for 1.5mm (.060") material.
- Structural Metal Studs to be galvanized sheet steel formed to channel shape, of minimum gauge, sizes, and section properties to meet design requirements, and conforms to ASTM C955.
- Metal Stud Runners/Top and Bottom Tracks to be Galvanized sheet steel formed to channel shape, having same width as studs, with tight fit and solid web, of minimum gauge to meet design requirements, but no less than gauge of metal studs, and conforms to ASTM C955.
- Metal Plates, Bridging, Gussets and Clips to be Formed from galvanized sheet steel, of gauges, shapes and sizes required to meet design requirements determined for conditions encountered, and of some finish as framing members.
- Fasteners to be Self-drilling, Self-tapping Screws, Bolts, Nuts and Washers: Hot-dip galvanized to 1.25 ounce per square foot and conforms to ASTM A153/A153M-09, Class B3, '12-24 x 7/8 HWH #4STLG' by Hilti Canada, or approved equal.
- Anchorage Devices to be power driven, powder actuated, drilled expansion bolts, or screws with sleeves, as application dictates.
- Where required welding shall be performed by a welder qualified under C.S.A. W47.
- Welding Materials to conform to CSA W59.
- Electrodes for welding shall have minimum 480 Mpa tensile strength series, (E480XXX,E480S-X).
- Provide Bridging for restraining member rotation and translation. Bridging shall be continuous and spaced at 1200mm O/C vertical maximum.
- The Contractor shall prepare and submit to the Consultant for review six (6) copies of erection diagrams and shop drawings indicating material, size, spacing and location of structural cold form steel members, connection, bridging, reinforcing, bearing, anchors, elevations and details.

#### LEGEND:

F = FOOTING  
SF = STRUT FOOTING  
P = PIER  
FW = FOUNDATION WALL  
BP = BASE PLATE  
C = COLUMN  
SW = STRUCTURAL WALL  
LWD = WOOD LINTEL  
LCF = COLD FORM STEEL LINTEL  
LST = STEEL LINTEL  
LCO = CONCRETE LINTEL  
LBB = BOND BEAM LINTEL  
F = FLOOR  
R = ROOF  
BOT = BOTTOM  
EXT = EXTERIOR  
INT = INTERIOR  
E/W = EACH WAY  
E/F = EACH FACE  
O/C = ON CENTER  
U/S = UNDER SIDE  
T/S = TOP OF STEEL  
TYP = TYPICAL  
WWF = WELDED WIRE MESH  
MW = METAL WIRE  
FFE = FINISHED FLOOR ELEVATION  
W/ = WITH  
TJ = TIE JOIST  
PL = POINT LOAD  
(HIGH) = BEAM AT UPPER LEVEL  
(LOW) = BEAM AT LOWER LEVEL  
CANT. = CANTILEVERED

1	ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL NOTES &amp; LEGEND</b>				
<b>D.G. Biddle &amp; Associates Limited</b> consulting engineers and planners 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)765-8500 FAX (905)765-9730 <a href="mailto:info@dgbbiddle.com">info@dgbbiddle.com</a>				
 LICENSED PROFESSIONAL ENGINEER D.D. BIDDLE 3/5/2020 PROVINCE OF ONTARIO				
SCALE:	AS SHOWN	PROJECT NO.	116194	
DRAWN BY:	M.A.S.	DRAWING NO.		
DESIGN BY:	T.L.R.			
CHECKED BY:	D.D.B.	CAD FILE:		
PLOT DATE:	20/03/30	SUBMISSION PERMIT		
DATE:	JANUARY 2020			

FOUNDATION PAD SCHEDULE		
FOOTING	SIZE	REINFORCING
F1	4800x4800x1000	W/ 48-15M REINF. O/C E/W
F2	4000x4000x775	W/ 35-15M REINF. O/C E/W
F3	1650x1650x350	W/ 17-15M REINF. O/C E/W
F4	2750x2750x600	W/ 17-15M REINF. O/C E/W
F5	3800x3800x750	W/ 32-15M REINF. O/C E/W
F6	3400x3400x650	W/ 26-15M REINF. O/C E/W
F7	1350x1350x275	W/ 4-15M REINF. O/C E/W

PIER SCHEDULE				
PIER	SIZE	VERT. REINF.	HORIZ. REINF.	REMARKS
P1	400x600			
P2	400x300			

FOUNDATION WALL & STRIP FOOTING SCHEDULE		
WALL	SIZE	STRIP FOOTING SIZE
FW1	300 CONCRETE FOUNDATION WALL W/20M VERT. REINF. @270 O/C W/15M HORIZ. REINF. @400 O/C INSIDE FACE W/10M REINF. @400 O/C E/W OUTSIDE FACE	600x200 CONCRETE STRIP FOOTING W/2-15M CONT. REINF. W/15M HOOKED DOWELS TO MATCH VERT. WALL REINF. ALTERNATE LEGS 900 L 600
FW2	300 CONCRETE FOUNDATION WALL W/15M VERT. REINF. @250 O/C W/15M HORIZ. REINF. @400 O/C INSIDE FACE W/10M REINF. @400 O/C E/W OUTSIDE FACE	600x200 CONCRETE STRIP FOOTING W/2-15M CONT. REINF. W/15M HOOKED DOWELS TO MATCH VERT. WALL REINF. ALTERNATE LEGS 900 L 600
FW3	300 CONCRETE FOUNDATION WALL W/15M VERTICAL REINF. @210 O/C E/W W/15M HORIZ. REINF. @400 O/C E/W E/F	2100x300 CONCRETE STRIP FOOTING W/15M CONT. REINF. @400 O/C E/F W/15M TRANSVERSE REINF. @150 O/C E/F W/15M HOOKED DOWELS TO MATCH VERT. WALL REINF. 900 L 600
FW4	200 CONCRETE FOUNDATION WALL W/15M @400 O/C E/W	600x200 CONCRETE STRIP FOOTING W/2-15M CONT. REINF. W/15M HOOKED DOWELS TO MATCH VERT. WALL REINF. ALTERNATE LEGS 900 L 600
FW5	250 CONCRETE FOUNDATION WALL W/15M VERT. REINF. @300 O/C W/15M HORIZ. REINF. @400 O/C	600x200 CONCRETE STRIP FOOTING W/2-15M CONT. REINF. W/15M HOOKED DOWELS TO MATCH VERT. WALL REINF. ALTERNATE LEGS 900 L 600
FW6	350 CONCRETE FOUNDATION WALL W/20M VERT. REINF. @330 O/C W/15M HORIZ. REINF. @400 O/C INSIDE FACE W/10M REINF. @400 O/C E/W OUTSIDE FACE	600x200 CONCRETE STRIP FOOTING W/2-15M CONT. REINF. W/15M HOOKED DOWELS TO MATCH VERT. WALL REINF. ALTERNATE LEGS 900 L 600
FW7	350 CONCRETE FOUNDATION WALL W/15M VERT. REINF. @280 O/C W/15M HORIZ. REINF. @400 O/C INSIDE FACE W/10M REINF. @400 O/C E/W OUTSIDE FACE	600x200 CONCRETE STRIP FOOTING W/2-15M CONT. REINF. W/15M HOOKED DOWELS TO MATCH VERT. WALL REINF. ALTERNATE LEGS 900 L 600

BASE PLATE SCHEDULE		
BASE PLATE	MEMBER	ANCHORS
BP1	300x150x12 STEEL PLATE	2-20M HOOKED ANCHORS 300 L 50
BP2	200x140x12 STEEL PLATE	2-15M HOOKED ANCHORS 300 L 50
BP3	400x300x16 STEEL PLATE	4-20M HOOKED ANCHORS 400 L 50

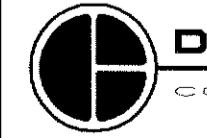
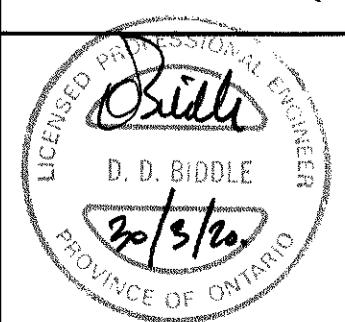
ROOF SCHEDULE				
R1	38x0.76 STEEL DECK W/ L102x102x6.4	R2	800S162-33 @400 O/C W/ 800T150-33 CONT. PERIMETER TRACKS W/16 PLYWOOD SHEATHING	

CONCRETE MIX SCHEDULE				
STRENGTH	CLASS	AIR	SLUMP	LOCATION
30 MPa	C-1	6-7%	75mm	RAMP & ADJACENT RETAINING WALLS, SUSPENDED PARKING SLAB
30 MPa	N	6-7%	75mm	CORE, COLUMNS, BEAMS, FOUNDATION WALLS, STRIP FOOTINGS
25 MPa	C-4	N/A	75mm	SLAB ON GRADE IN UNDERGROUND PARKING GARAGE

LINTEL SCHEDULE SCHEDULE		
LINTEL	SIZE	REMARKS
LST1	L89x89x6.4 DOUBLE STEEL ANGLE	10M HOOKED DOWEL @ ENDS 300 L 50
LST2	L127x89x6.4 LLV DOUBLE STEEL ANGLE	10M HOOKED DOWEL @ ENDS 300 L 50
LST3	L89x89x6.4 DOUBLE STEEL ANGLE	
LST4	HORIZONTAL 600S162-33 STEEL STUD W/ 600T150-33 TRACK	
LCO1	600x400 W/3-20M CONT. T&B REINF. W/10M STIRRUPS @300 O/C	
LCO2	400x400 W/3-15M CONT. T&B REINF. W/10M STIRRUPS @300 O/C	
LCO3	800x200 W/3-15M CONT. T&B REINF. W/10M STIRRUPS @300 O/C	
LCO4	600x350 W/3-20M CONT. T&B REINF. W/10M STIRRUPS @300 O/C	
LCO5	400x200 W/3-15M CONT. T&B REINF. W/10M STIRRUPS @300 O/C	
LCO6	400x300 W/3-15M CONT. T&B REINF. W/10M STIRRUPS @300 O/C	

WALL PLATE SCHEDULE		
WALL PLATE	MEMBER	ANCHORS
WP1	300x150x12 STEEL WALL PLATE	HILTI HY-200 ADHESIVE W/4-16 φ HIT-Z RODS W/150 EMBED.
WP2	300x200x16 STEEL WALL PLATE	6-20M HOOKED ANCHORS Vf=19kN, Mf=11.5kN*m

STRUCTURAL WALL SCHEDULE		
WALL	SIZE	REMARKS
SW1	190 CMU MASONRY BLOCK W/15M VERT. REINF. @1200 O/C	
SW2	275 CONCRETE WALL CURB W/15M @400 O/C E/W E/F	
SW3	600S162-33 COLD FORM STUDS @400 O/C W/ 600T150-33 TOP AND BOTTOM TRACKS W/16 PLYWOOD SHEATHING	W/2-0.157 X-U KNULED SHANK FASTENERS @400 O/C W/ 25 EMBED. INTO CONCRETE

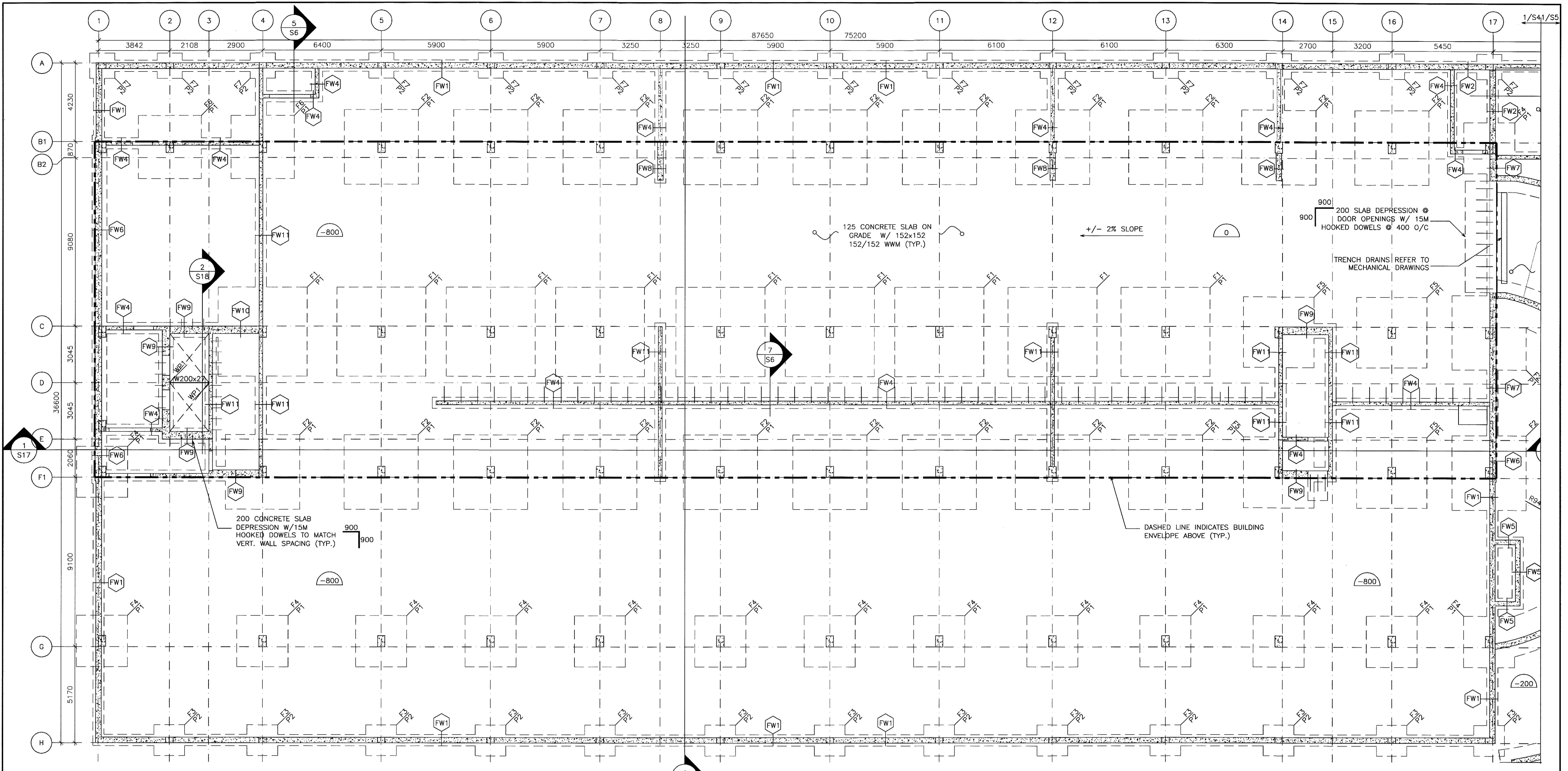
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REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
STRUCTURAL SCHEDULES				
 <b>D.G. Biddle &amp; Associates Limited</b> consulting engineers and planners 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 • FAX (905)576-9730 info@dgbbiddle.com				
PROJECT NO. <b>116194</b> DRAWN BY: <b>M.A.S.</b> DRAWING NO. <b>S2</b> DESIGN BY: <b>T.L.R.</b> CHECKED BY: <b>D.D.B.</b> CAD FILE #: <b>20/03/30</b> DATE: <b>JANUARY 2020</b> SUBMISSION PERMIT				
 LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO D.D. BIDDLE				

		FLEXURAL REINFORCEMENT				STIRRUPS								FLEXURAL REINFORCEMENT				STIRRUPS							
		GRID		L=LEFT END R=RIGHT END T=THROUGHOUT REM=REMAINDER		MARK		SIZE (WxD)		GRID		L=LEFT END R=RIGHT END T=THROUGHOUT REM=REMAINDER		MARK		SIZE (WxD)		GRID		L=LEFT END R=RIGHT END T=THROUGHOUT REM=REMAINDER					
MARK	SIZE (WxD)	B	C	F	REMARKS	SIZE	TYPE	SPACING	BML1	400x600	9950	8150	10M	GRID B-C 10 @170L 14 @170R @300 REM	BML7	200x600	3-20MTU	3-20MTU	2-20MBL	REMARKS	SIZE	TYPE	SPACING		
BML1	400x600					5-30MTU	5-30MTU	4-25MTU			3000	3000	2400	3000											
						3000	3000	3000						2-30MBL											
						2-30MBL	3-30MBL																		
BML2	400x600					5-30MTU	5-30MTU				3000	3000													
						3000	3000							4-30MBL											
BML3	400x600					5-30MTU	5-30MTU				3000	3000													
						3000	3000							2-30MBL	3-30MBL										
						3-30MBL	3-30MBL																		
BML4	400x600					3-30MTU	4-30MTU	2-30MTU			3000	3000	2400	3000											
						3000	3000	2400						3-30MBL											
BML5	200x600					3-20MTU	3-20MTU				3000	3000													
						3-20MBL																			
BML6	200x600					2-16	1-17				3-20MTU	2-20MTU													
						3-20MTU	2-20MTU				3000	3000													
						3-20MBL																			
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		GRID		L=LEFT END R=RIGHT END T=THROUGHOUT REM=REMAINDER		MARK		SIZE (WxD)		GRID		L=LEFT END R=RIGHT END T=THROUGHOUT REM=REMAINDER		MARK		SIZE (WxD)		GRID		L=LEFT END R=RIGHT END T=THROUGHOUT REM=REMAINDER					
MARK	SIZE (WxD)	PERIMETER BEAM B AND F, 2 AND 16		H		G		F		5170		9100		BML10		400x1000		7-35MTU		7-35MTU		4-30MBL		4-35MBL	
BML7	200x600																								
BML8	400x600																								
BML9	200x600																								
BML10	400x1000																								
BML11	400x600																								
BML12	600x1000																								

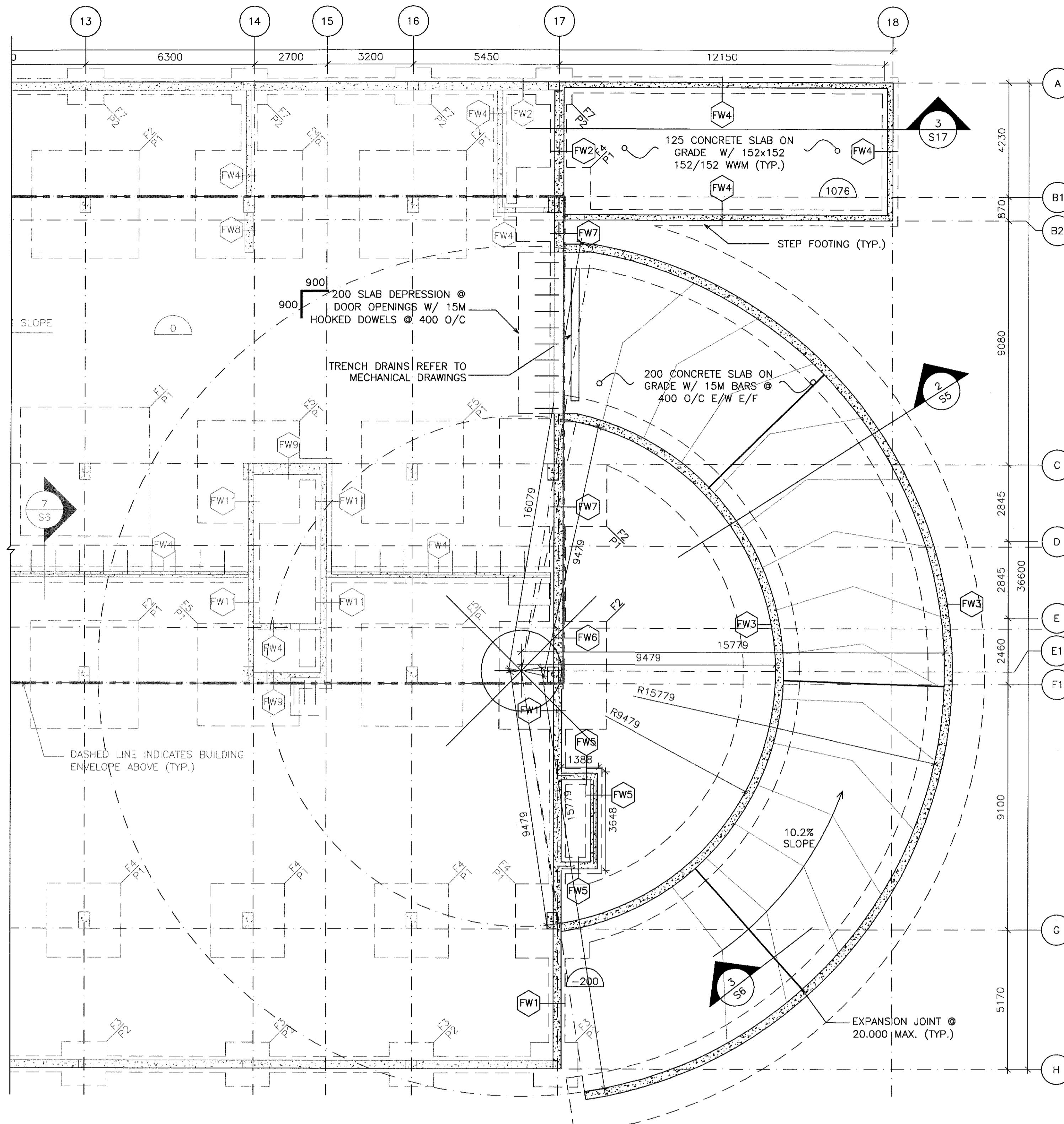
1. ISSUED FOR PERMIT NO.	20/03/30	M.S.	T.L.R.
REVISION	DATE BY	APPROVED	
REVISIONS			
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## STRUCTURAL BEAM SCHEDULES

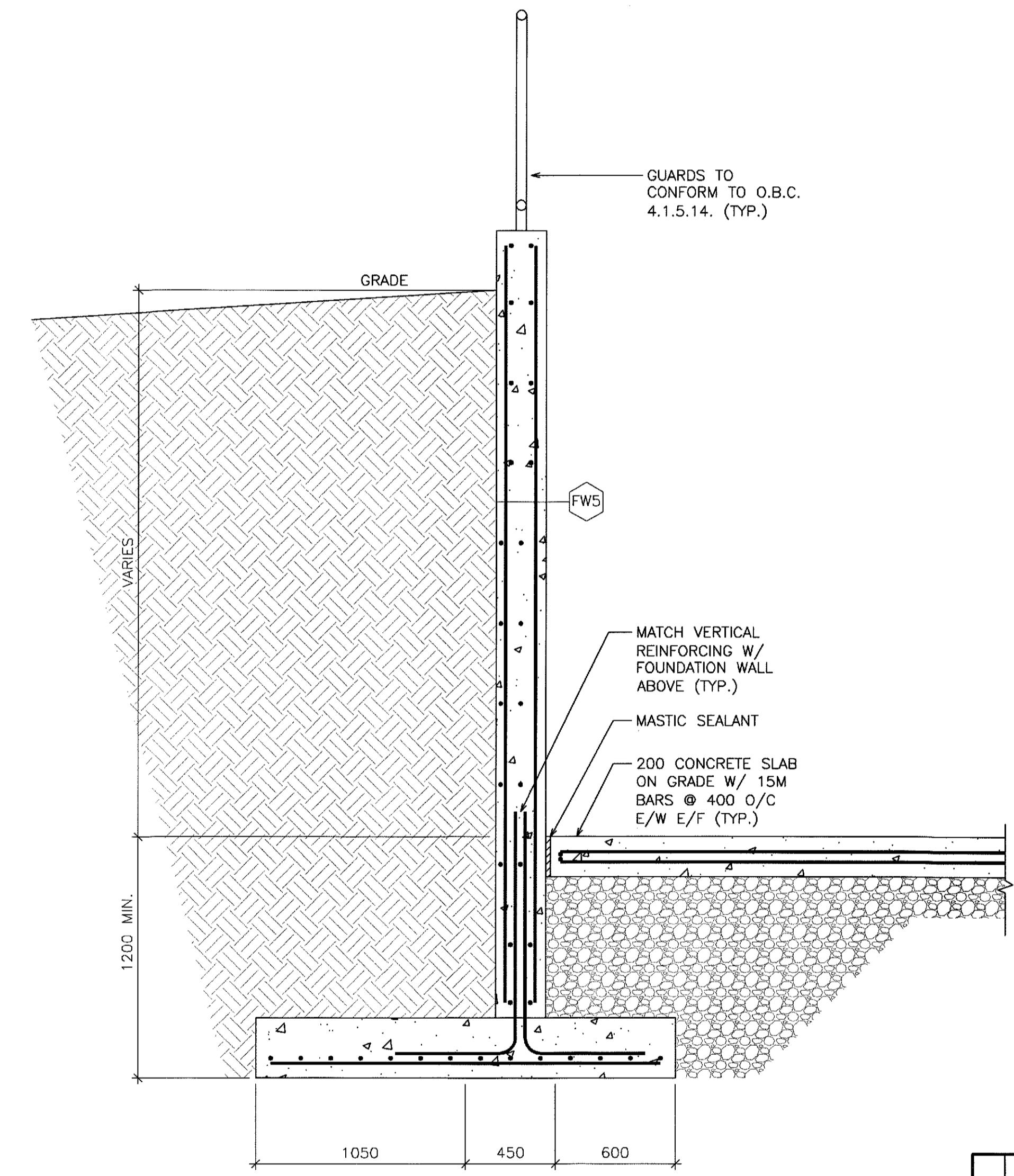
<b>D.G. Biddle &amp; Associates Limited</b> consulting engineers and planners 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 • FAX (905)576-9730 info@dbiddle.com	SCALE: AS SHOWN	PROJECT NO. <b>116194</b>
LICENSED PROFESSIONAL ENGINEER <i>[Signature]</i> D.B. BIDDLE P.O. 3/16 PROVINCE OF ONTARIO	DRAWN BY: M.A.S.	DRAWING NO. <b>S3</b>
DESIGN BY: T.L.R.	CHECKED BY: D.D.B.	CAD FILE: PLOT DATE: 20/03/30 SUBMISSION PERMIT DATE: JANUARY 2020



		SCALE: AS SHOWN	PROJECT NO.
		116194	
D.D. BIDDLE		DRAWN BY: M.A.S.	DRAWING NO.
PROFESSIONAL ENGINEER REGISTRATION NO. 21360		DESIGN BY: T.L.R.	
PROVINCE OF ONTARIO		CHECKED BY: D.D.B.	CAD FILE: PLOT DATE: 20/03/30 SUBMISSION PERMIT
		DATE: JANUARY 2020	

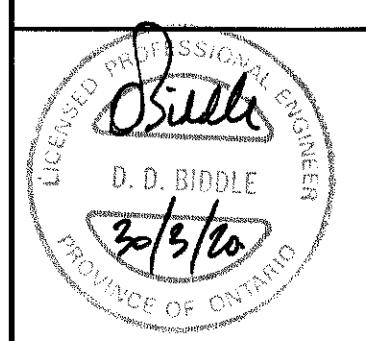


1 STRUCTURAL FOUNDATION PLAN - RAMP (2/2)  
S5 SCALE: 1:100

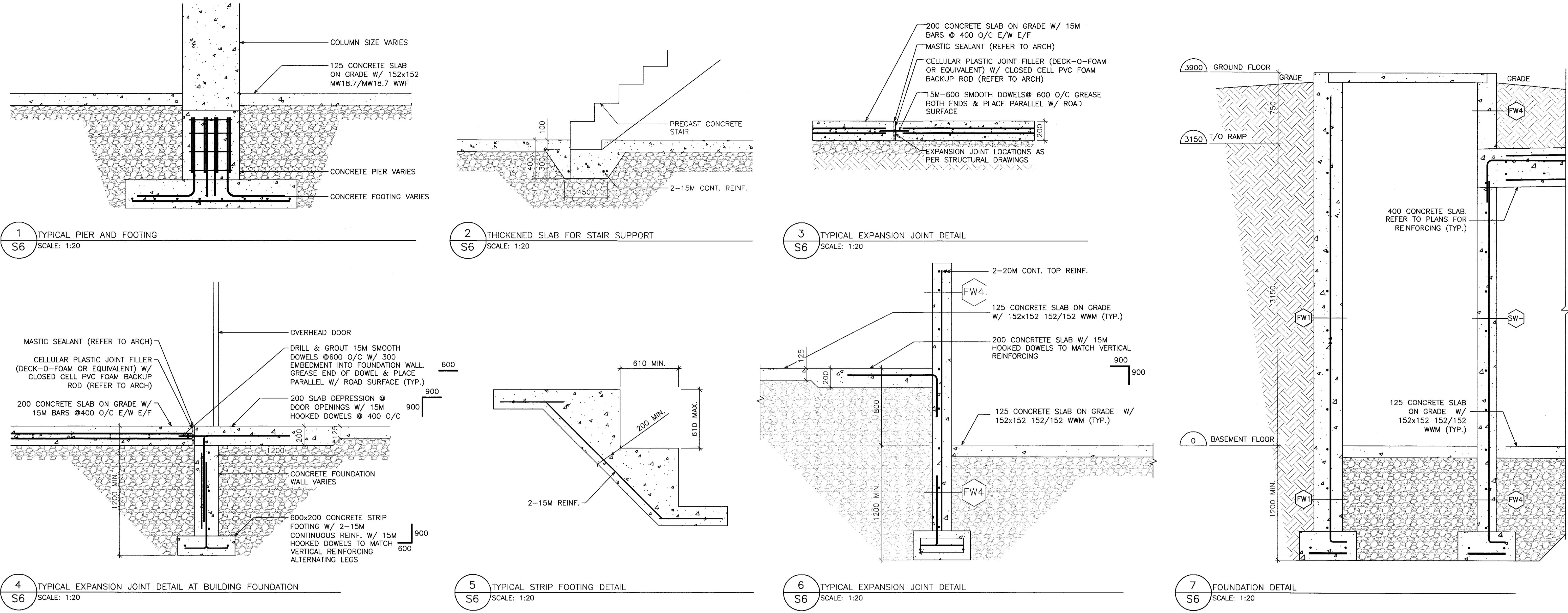


2 UNDERGROUND PARKING GARAGE RETAINING WALL DETAIL  
S5 SCALE: 1:20

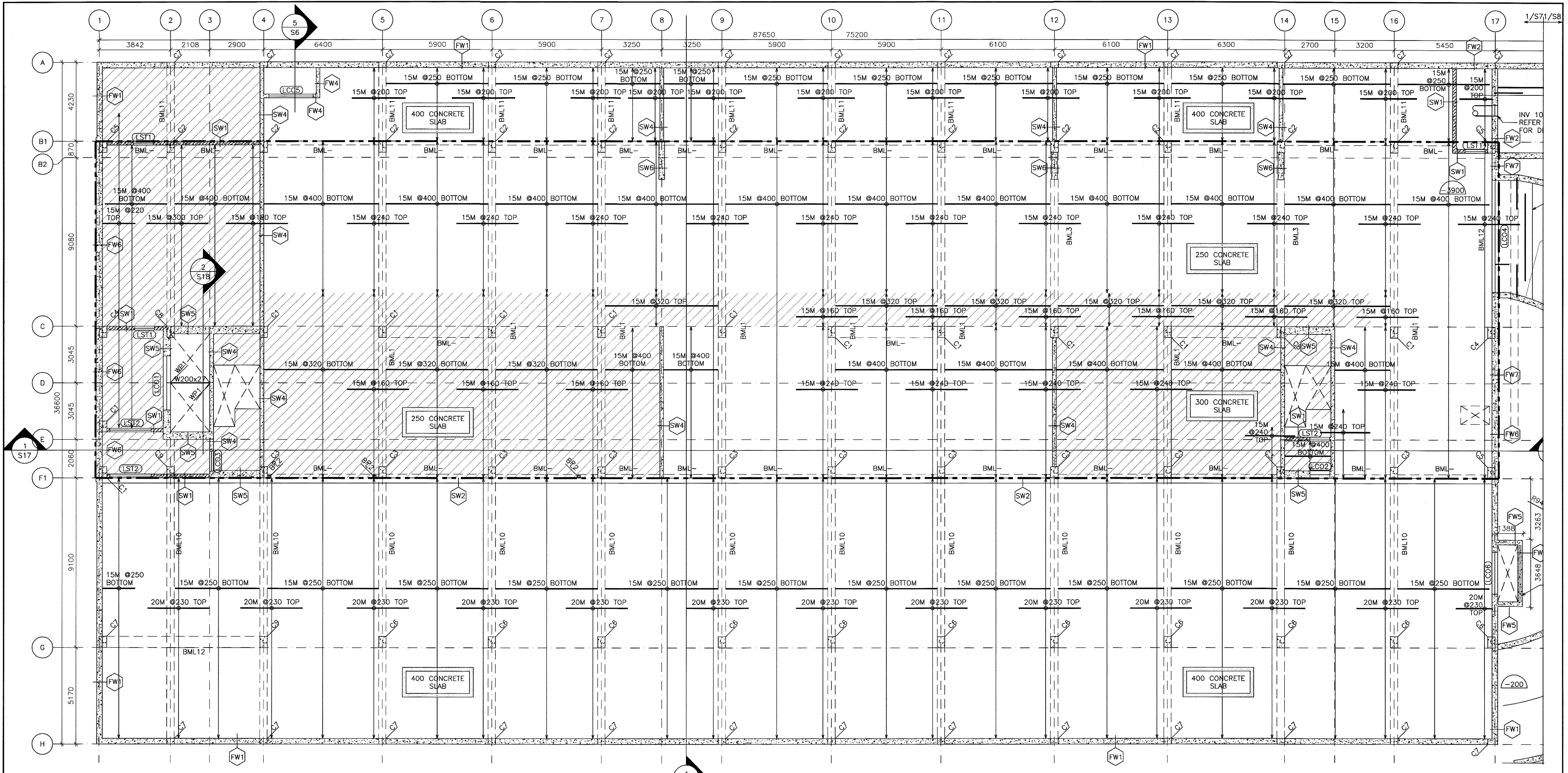
1 ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY APPROVED
REVISIONS			
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.			
<b>STRUCTURAL FOUNDATION PLAN - RAMP (2/2)</b>			
<b>D.G. Biddle &amp; Associates Limited</b> <small>consulting engineers and planners</small> <small>96 KING STREET EAST • OSHAWA, ON L1H 1B6</small> <small>PHONE (905)576-8500 • FAX (905)576-9730</small> <small>info@dg-biddle.com</small>			
PROJECT NO. <b>116194</b> DRAWN BY: M.A.S. DRAWING NO. <b>S5</b> DESIGN BY: T.L.R. CHECKED BY: D.D.B. CAD FILE: PLOT DATE: 20/03/30 SUBMISSION PERMIT DATE: JANUARY 2020			



LICENSED PROFESSIONAL ENGINEER  
PROVINCE OF ONTARIO  
D.O.B.  
30/3/80



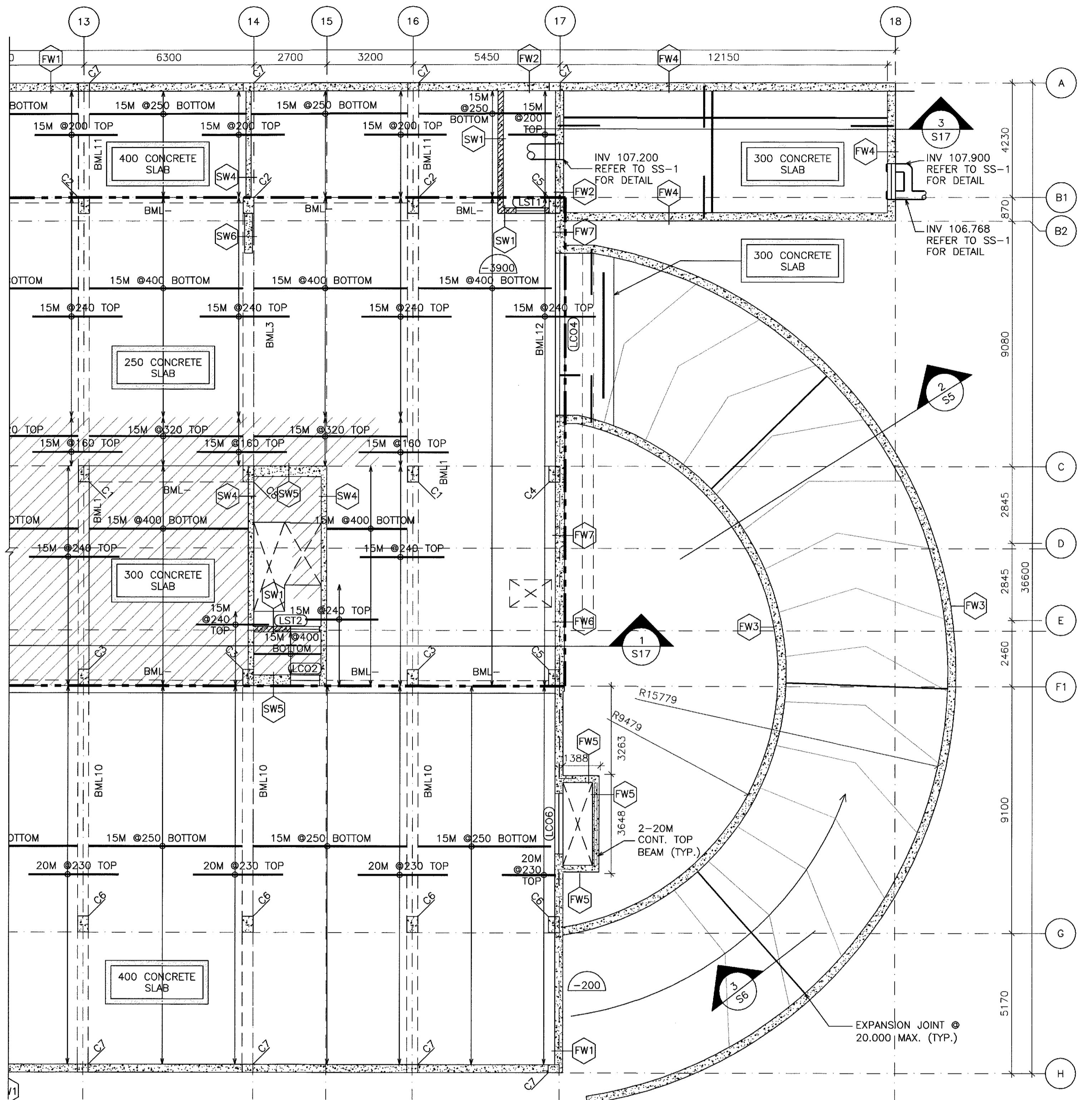
1 ISSUED FOR PERMIT NO.	20/03/30 M.S.	T.L.R.
REVISION	DATE	BY APPROVED
REVISIONS		
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.		
<b>STRUCTURAL FOUNDATION DETAILS</b>		
<b>D.G. Biddle &amp; Associates Limited</b> <small>consulting engineers and planners</small> <small>96 KING STREET EAST • OSHAWA, ON L1H 1B6</small> <small>PHONE (905)576-8500 • FAX (905)576-9730</small> <small>info@dg-biddle.com</small>		
PROJECT NO. <b>116194</b>		
SCALE: AS SHOWN DRAWN BY: M.A.S. DRAWING NO. DESIGN BY: T.L.R. CHECKED BY: D.D.B. CAD FILE: PLOT DATE: 20/03/30 DATE: JANUARY 2020		
LICENSED PROFESSIONAL ENGINEER D. D. BIDDLE 09/13/20 PROVINCE OF ONTARIO		



1 STRUCTURAL MAIN FLOOR PLAN (1/2)  
S7 SCALE: 1:100

1 ISSUED FOR PERMIT NO.	20/03/30 M.S.	T.L.R.
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STRUCTURAL MAIN FLOOR PLAN (1/2)		
D.G. Biddle & Associates Limited consulting engineers and planners 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 • FAX (905)576-9730 info@dgbbiddle.com		PROJECT NO. 116194
LICENSED PROFESSIONAL ENGINEER D.D. BIDDLE B7/3/20 PROVINCE OF ONTARIO	SCALE: AS SHOWN DRAWN BY: M.A.S. DESIGN BY: T.L.R. CHECKED BY: D.D.B. DATE: JANUARY 2020	PAGE NO. S7 CAD FILE: PLOT DATE: 20/03/30 SUBMISSION PERMIT

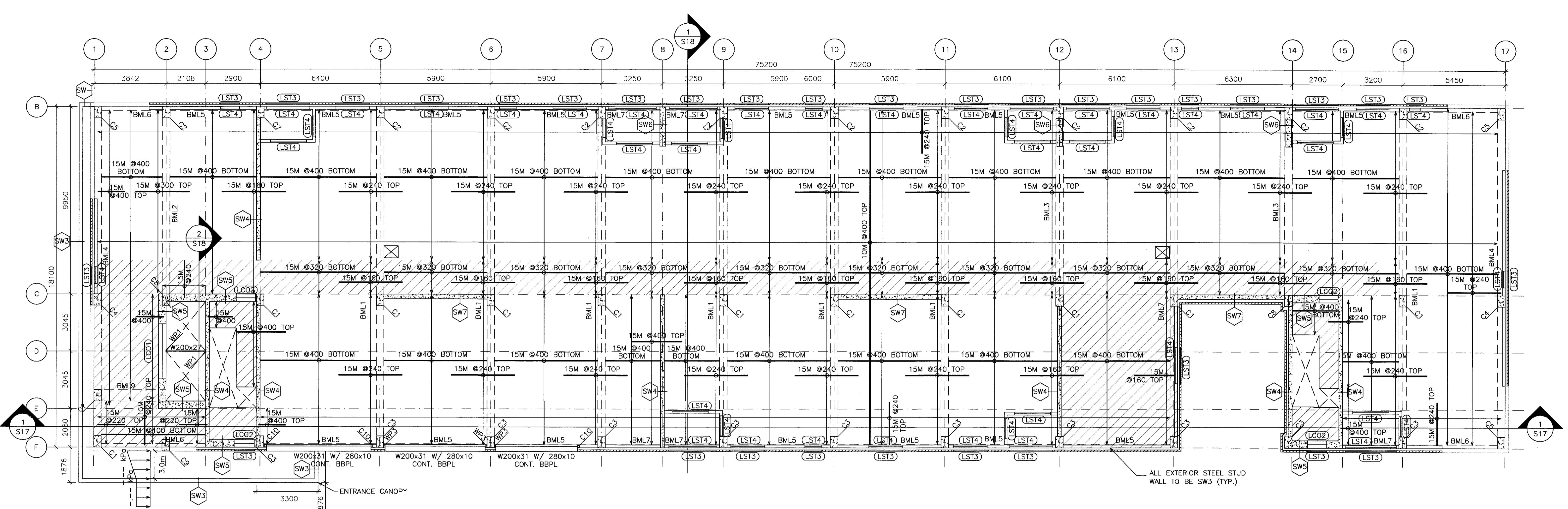
HATCHED AREAS SHOWS  
PUBLIC LOAD LOCATIONS



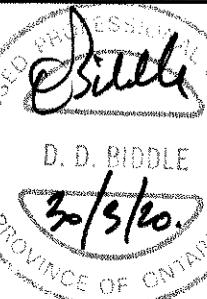
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S8 STRUCTURAL MAIN FLOOR PLAN - RAMP (2/2)  
SCALE: 1:100

1	ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY	APPROVED
REVIZIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL MAIN FLOOR PLAN (2/2)</b>				
	D.G. Biddle & Associates Limited consulting engineers and planners	PROJECT NO. 116194		
	96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 • FAX (905)576-9730 info@dgbbiddle.com	SCALE: AS SHOWN		
	D. D. BIDDLE P.R.E. #316 PROVINCE OF ONTARIO	DRAWN BY: M.A.S.	DRAWING NO. S8	
	DESIGN BY: T.L.R.			
	CHECKED BY: D.D.B.			
	CAD FILE: 20/03/30 SUBMISSION PERMIT			
	DATE: JANUARY 2020			

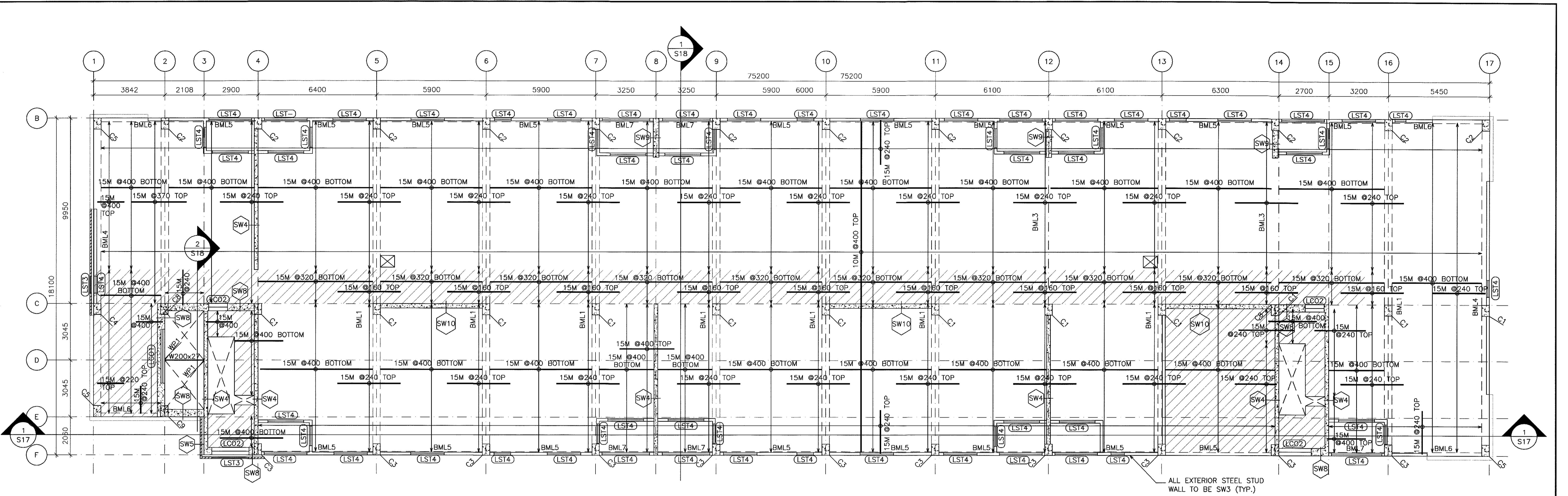
HATCHED AREAS SHOWS  
PUBLIC LOAD LOCATIONS



1  
S9  
SCALE: 1:100

1	ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL SECOND FLOOR PLAN</b>				
 <b>D.G. Biddle &amp; Associates Limited</b> <small>consulting engineers and planners</small> 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)579-5000 FAX (905)576-9730 Info@dgbbiddle.com				
PROJECT NO. <b>116194</b> SCALE: AS SHOWN DRAWN BY: M.A.S. DESIGN BY: T.L.R. CHECKED BY: D.D.B. CAD FILE: - SUBMISSION-PERMIT DATE: JANUARY 2020				
 D.D. BIDDLE 3/3/20 PROVINCE OF ONTARIO CAD FILE: - SUBMISSION-PERMIT DATE: JANUARY 2020				

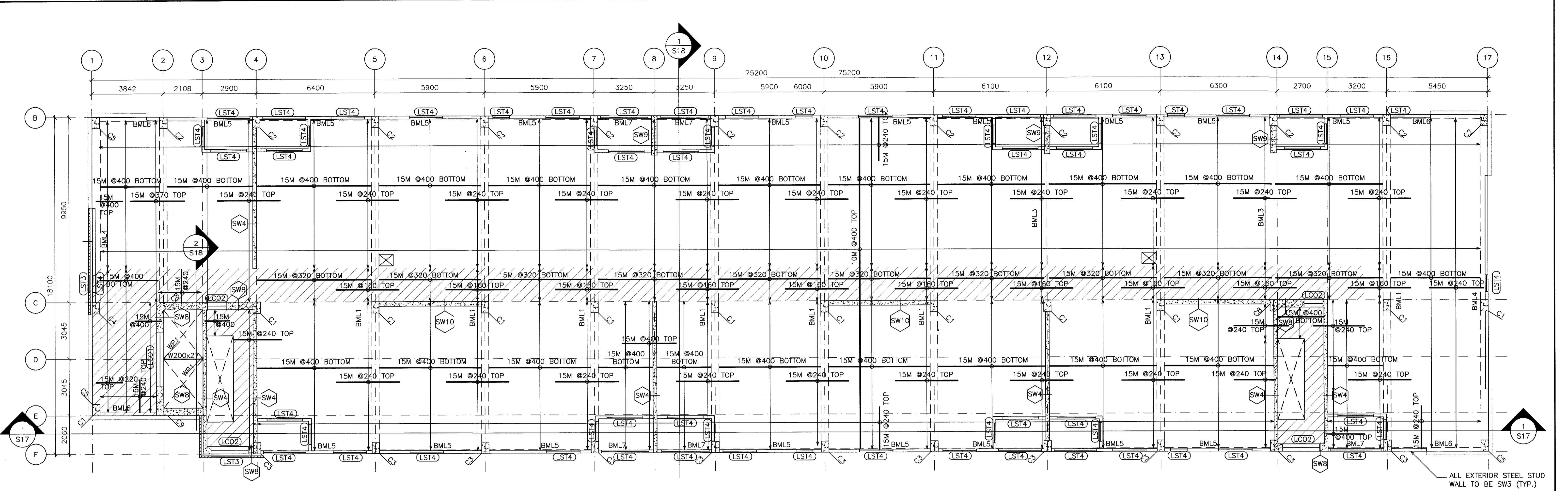
HATCHED AREAS SHOWS  
PUBLIC LOAD LOCATIONS



1 STRUCTURAL THIRD FLOOR PLAN  
S10 SCALE: 1:100

1	ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL THIRD FLOOR PLAN</b>				
<b>D.G. Biddle &amp; Associates Limited</b> <small>consulting engineers and planners</small> <small>96 KING STREET EAST - OSHAWA, ON L1H 1B6</small> <small>PHONE (905)576-8500 FAX (905)576-9730</small> <small>info@dgbbiddle.com</small>				
 <small>LICENSED PROFESSIONAL ENGINEERS</small> <small>PROVINCE OF ONTARIO</small>		PROJECT NO.	116194	
SCALE:	AS SHOWN	DRAWN BY:	M.A.S.	DRAWING NO.
DESIGN BY:	T.L.R.	CHECKED BY:	D.D.B.	PLOT DATE: 20/03/30
DATE:	JANUARY 2020	SUBMISSION: PERMIT		

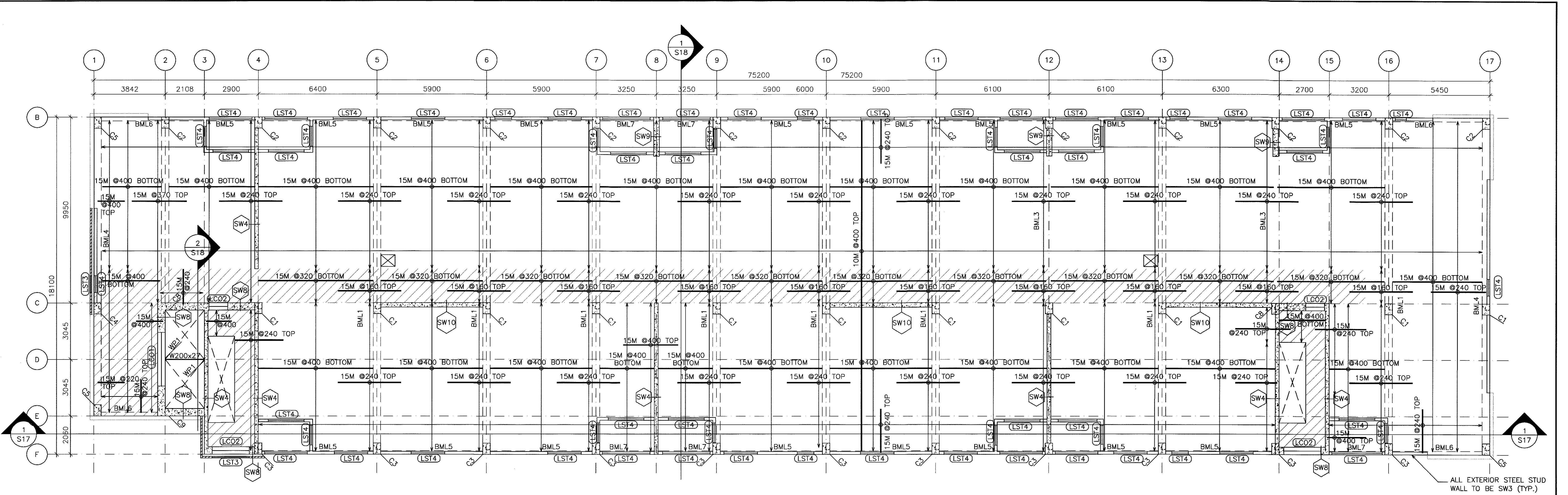
HATCHED AREAS SHOWS  
PUBLIC LOAD LOCATIONS



1 STRUCTURAL FOURTH FLOOR PLAN  
S11 SCALE: 1:100

1	ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL FOURTH FLOOR PLAN</b>				
 <b>D.G. Biddle &amp; Associates Limited</b> Consulting engineers and planners 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 • FAX (905)576-9730 <a href="mailto:info@dgbbiddle.com">info@dgbbiddle.com</a>				
 LICENSED PROFESSIONAL ENGINEERS OF ONTARIO PROJECT NO. <b>116194</b>				
SCALE: AS SHOWN DRAWN BY: M.A.S. DRAWING NO. DESIGN BY: T.L.R. S11 CHECKED BY: D.D.B. DATE: JANUARY 2020 CAD FILE: 20/03/30 SUBMISSION: PERMIT				

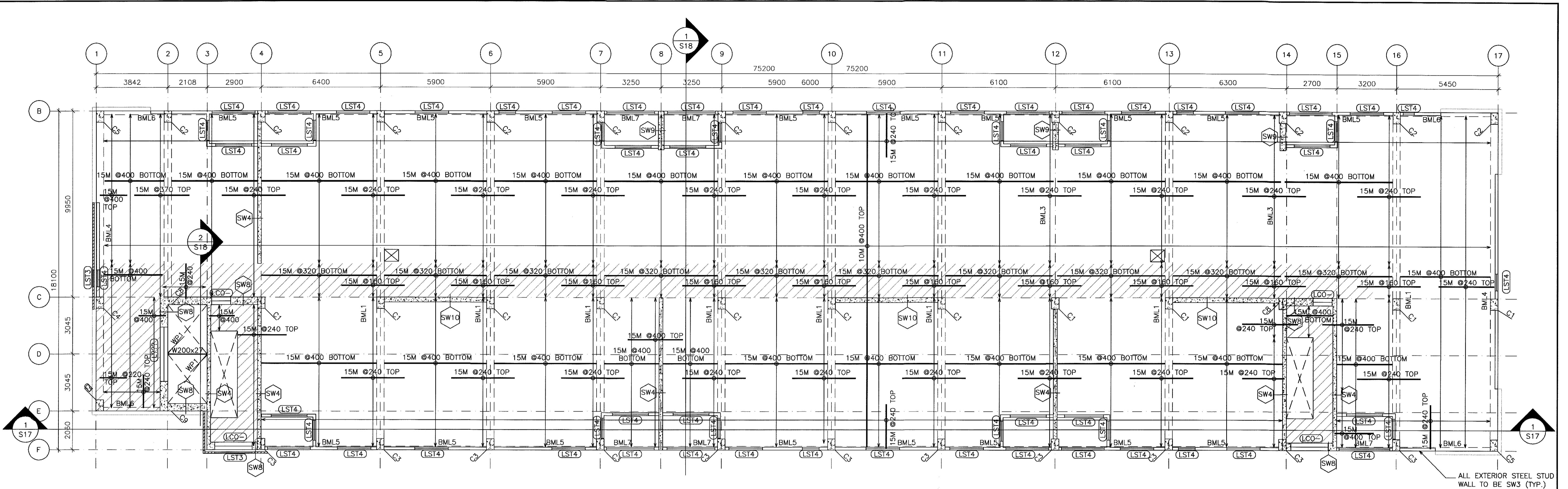
HATCHED AREAS SHOWS  
PUBLIC LOAD LOCATIONS



1 STRUCTURAL FIFTH FLOOR PLAN  
S12 SCALE: 1:100

1	ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL FIFTH FLOOR PLAN</b>				
 <b>D.G. Biddle &amp; Associates Limited</b> consulting engineers and planners 96 KING STREET EAST - OSHAWA, ON L1H 1B6 PHONE: (905)576-8500 FAX: (905)576-9730 Info@dgbbiddle.com				
PROJECT NO. <b>116194</b> DRAWN BY: M.A.S. DRAWING NO. <b>S12</b> DESIGN BY: T.L.R. CHECKED BY: D.D.B. CAD FILE: PLOT DATE: 20/03/30 SUBMISSION: PERMIT DATE: JANUARY 2020				

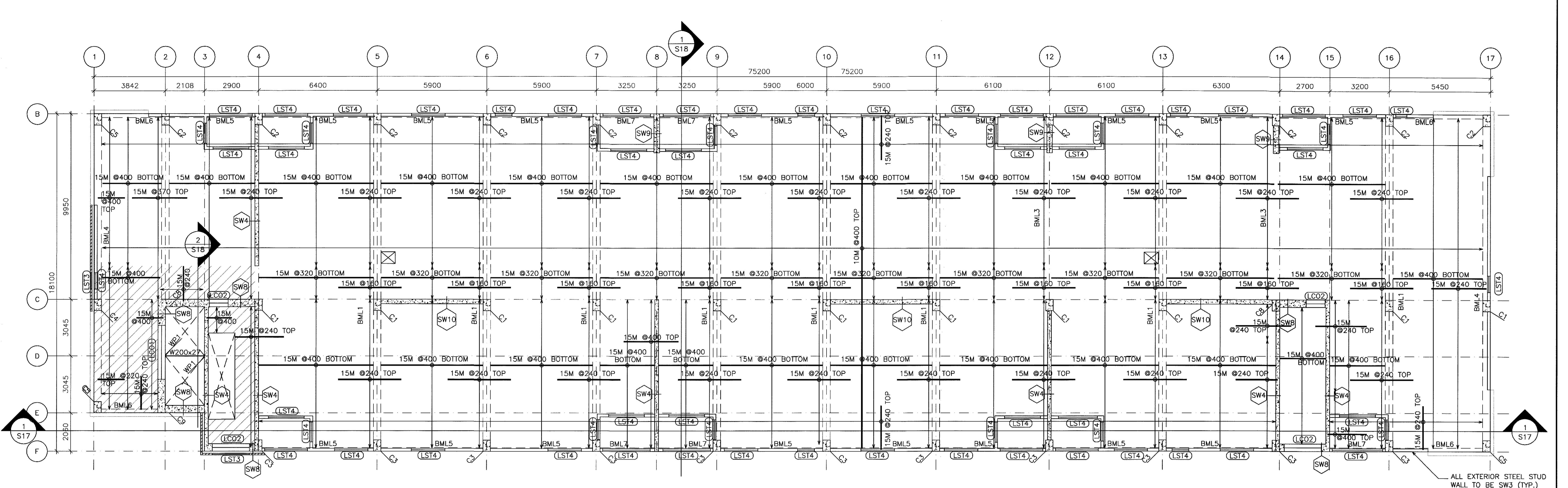
HATCHED AREAS SHOWS  
PUBLIC LOAD LOCATIONS



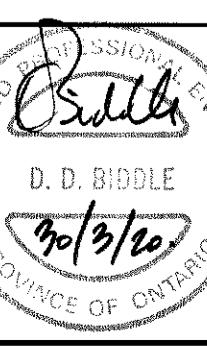
1 STRUCTURAL SIXTH FLOOR PLAN  
S13 SCALE: 1:100

1	ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL SIXTH FLOOR PLAN</b>				
	D.G. Biddle & Associates Limited consulting engineers and planners 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 FAX (905)576-9736 info@dgbbiddle.com	PROJECT NO. 116194		
	SCALE: AS SHOWN	DRAWN BY: M.A.S.	DRAWING NO.	
	DESIGN BY: T.L.R.	CHECKED BY: D.D.B.	CAD FILE: -	
	DATE: JANUARY 2020	SUBMISSION: PERMIT		

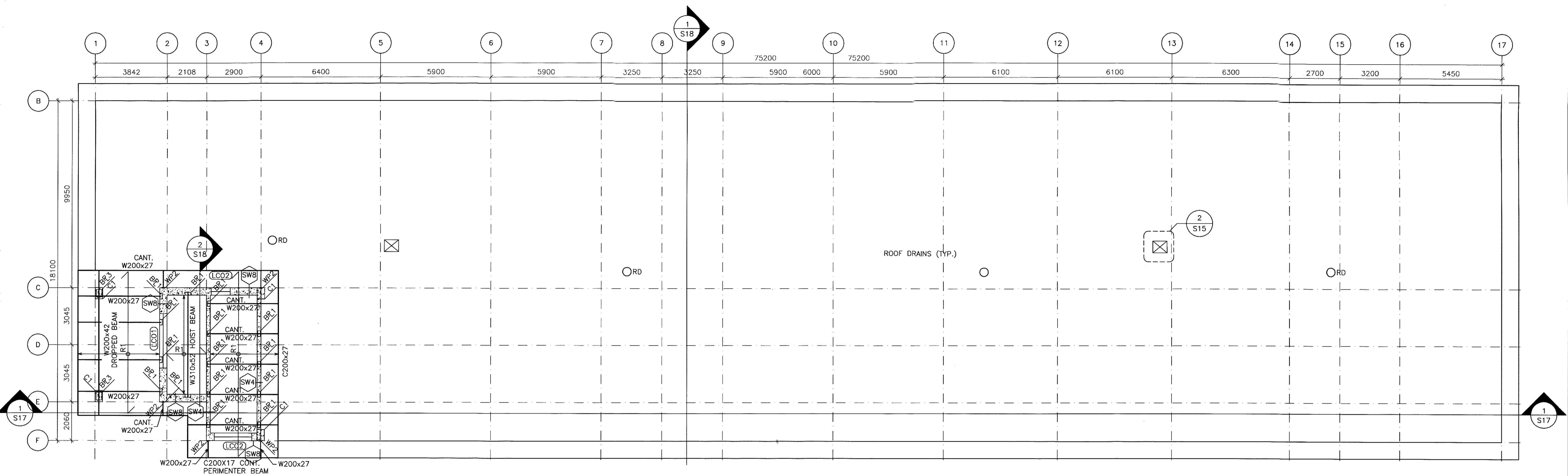
HATCHED AREAS SHOWS  
PUBLIC LOAD LOCATIONS



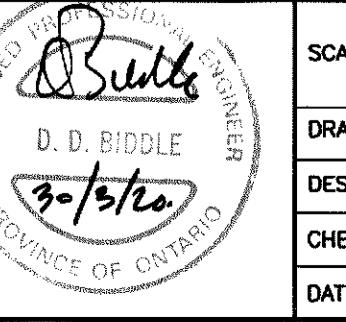
1 STRUCTURAL ROOF PLAN  
S14 SCALE: 1:100

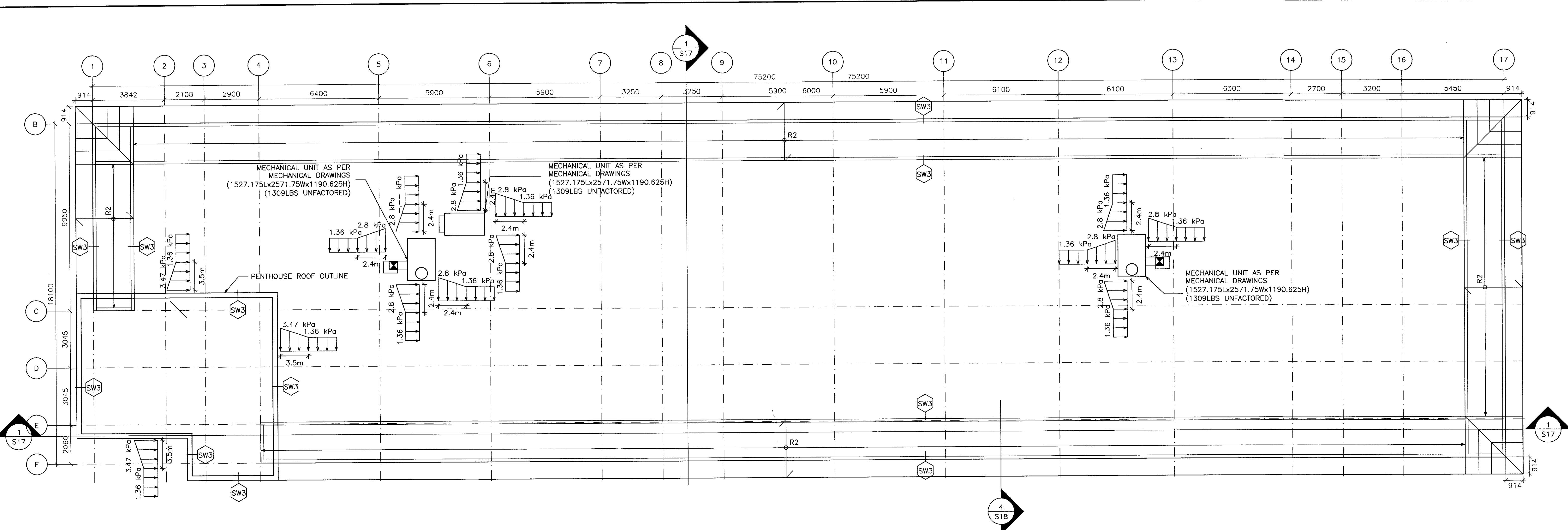
1	ISSUED FOR <del>SEARCH</del> FOR PERMIT	200/03/00	M.S.	D.D.B.
NO.	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
STRUCTURAL ROOF PLAN				
 <b>D.G. Biddle &amp; Associates Limited</b> <small>consulting engineers and planners</small> 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 FAX (905)576-9730 info@dgbbiddle.com				
 D.D. BIDDLE 30/3/20 PROVINCE OF ONTARIO		SCALE:	AS SHOWN	PROJECT NO. <b>116194</b>
DRAWN BY: M.A.S.		DRAWING NO.		
DESIGN BY: T.L.R.				
CHECKED BY: D.D.B.				
DATE: JANUARY 2020		CAD FILE: 200/03/00 SUBMISSION: PERMIT		

HATCHED AREAS SHOWS  
PUBLIC LOAD LOCATIONS

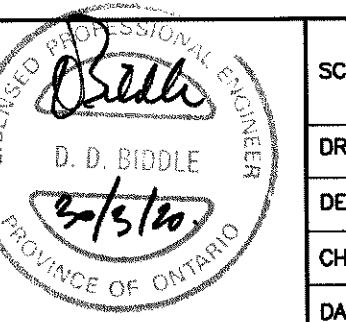


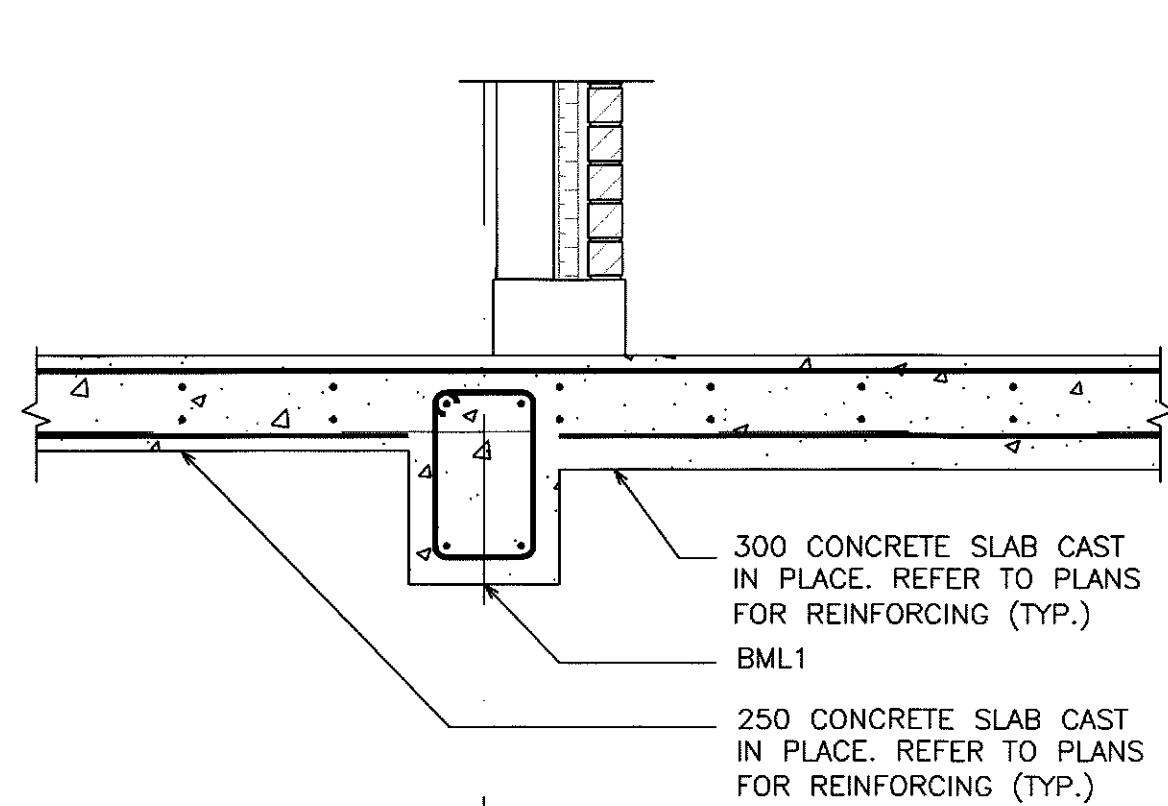
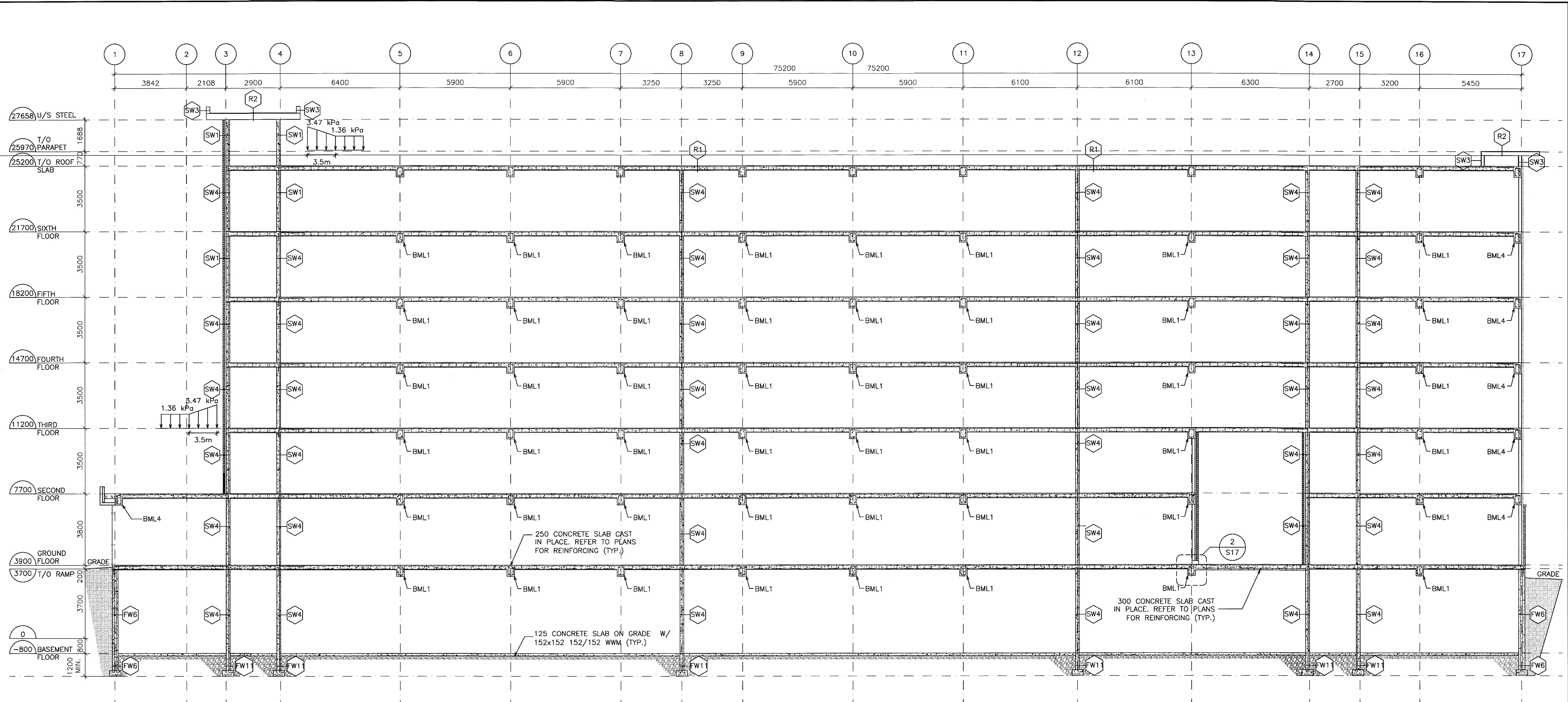
1 PENTHOUSE ROOF PLAN  
S15 SCALE: 1:100

1	ISSUED FOR PERMIT	20/03/30	M.S.	T.L.R.
NO.	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL PENTHOUSE PLAN</b>				
 <b>D.G. Biddle &amp; Associates Limited</b> <small>consulting engineers and planners</small> 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 FAX (905)576-9730 info@dgbbiddle.com				
 PROJECT NO. <b>116194</b> DRAWN BY: M.A.S. DESIGN BY: T.L.R. CHECKED BY: D.D.B. CAD FILE: S15 SUBMISSION: PERMIT				
 LICENSED PROFESSIONAL ENGINEER BY THE PROVINCE OF ONTARIO D.D. BIDDLE 30/3/20 DRAWING NO. <b>S15</b> DATE: JANUARY 2020				



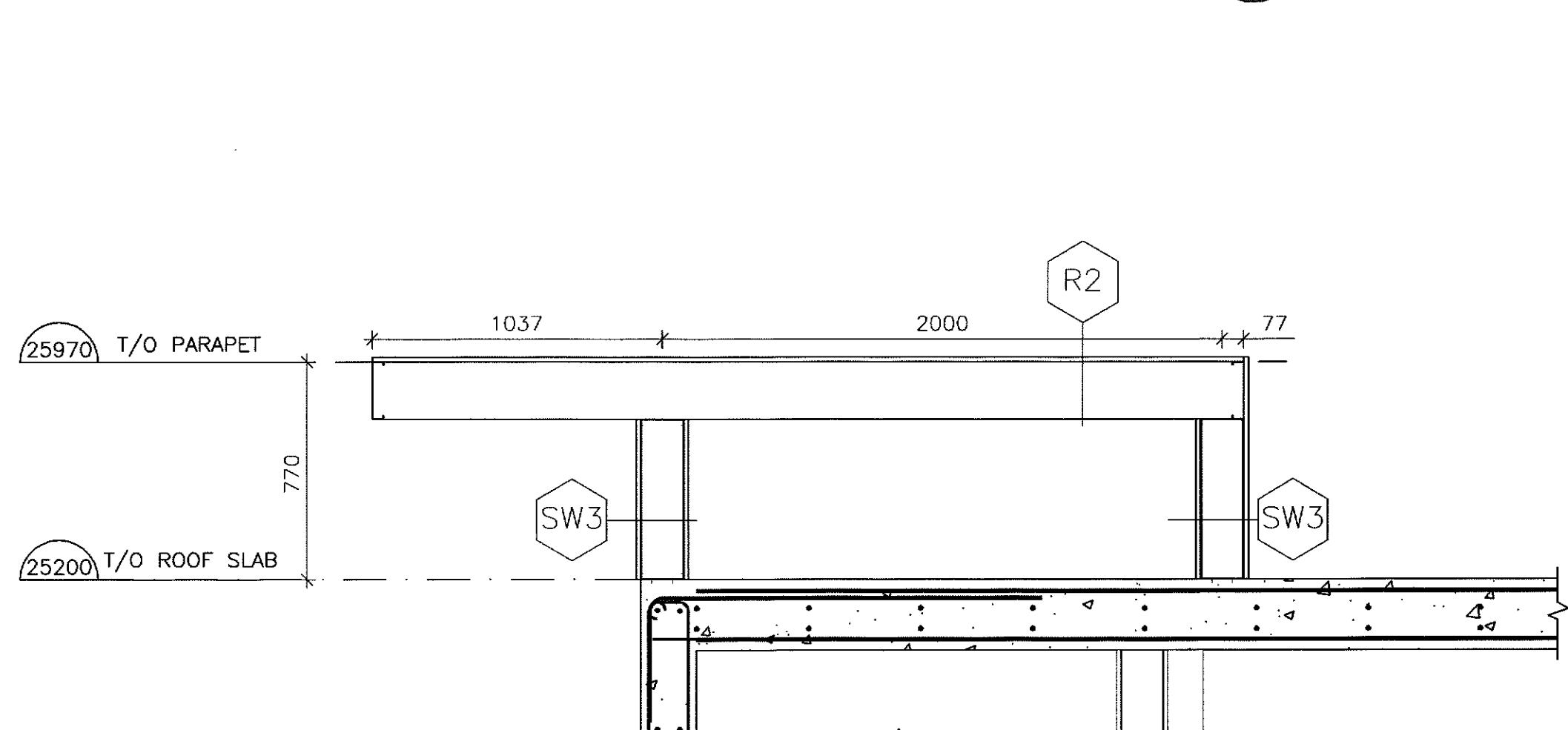
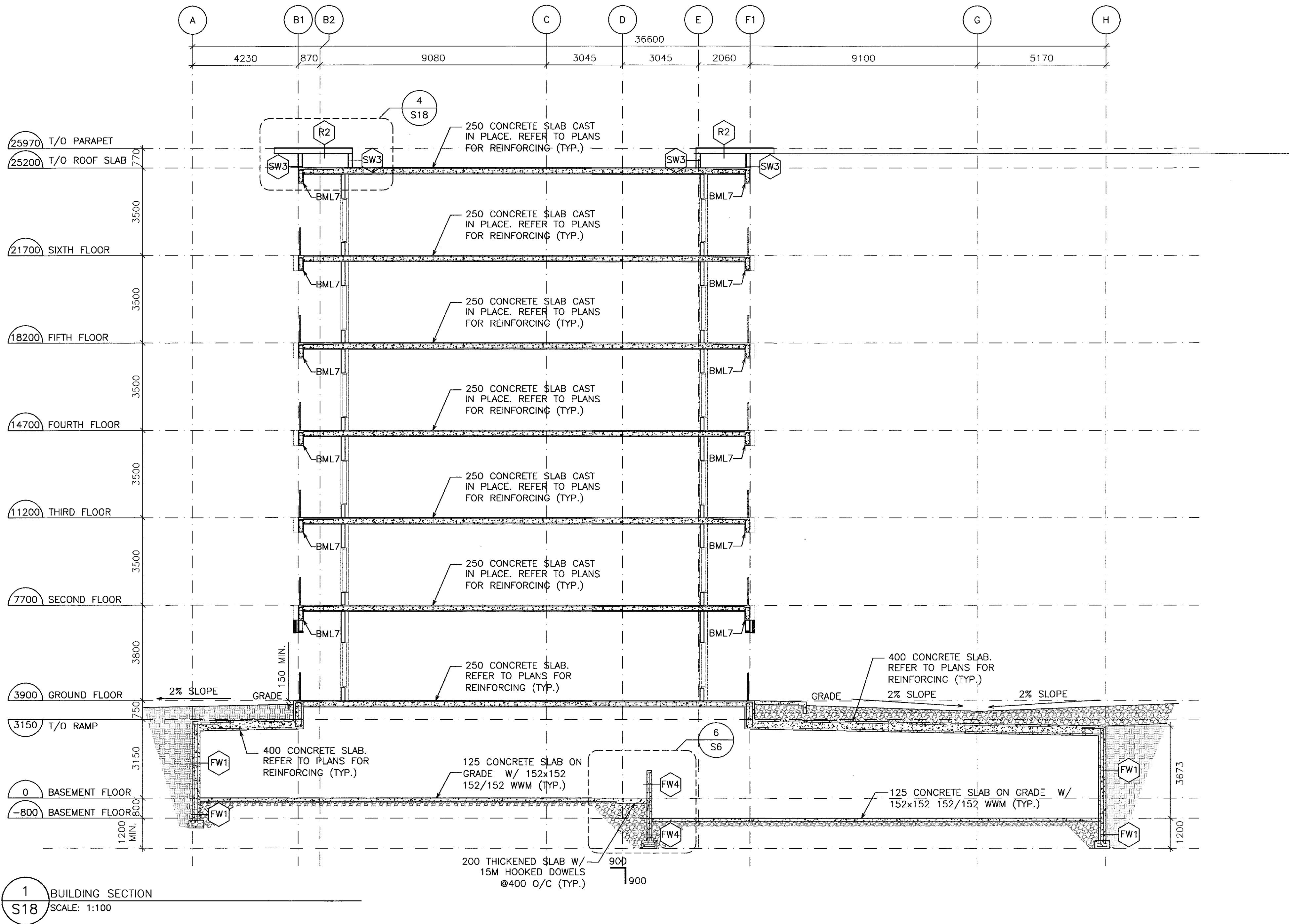
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S16 ROOF LOADS PLAN  
SCALE: 1:100

1	ISSUED FOR PERMIT	20/03/30 M.S.	T.L.R.
NO.	REVISION	DATE	BY APPROVED
REVISIONS			
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.			
<b>STRUCTURAL ROOF LOADS PLAN</b>			
 <b>D.G. Biddle &amp; Associates Limited</b> <small>consulting engineers and planners</small> 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 • FAX (905)576-9730 info@dgbbiddle.com			
 LICENSED PROFESSIONAL ENGINEER PROVINCE OF ONTARIO <i>Beth</i> D. D. BIDDLE		PROJECT NO. <b>116194</b>	
SCALE:	AS SHOWN	DRAWING NO.	
DRAWN BY:	M.A.S.	S16	
DESIGN BY:	T.L.R.	CAD FILE: -	
CHECKED BY:	D.D.B.	SUBMISSION: PERMIT	
DATE:	JANUARY 2020		



CONCRETE CURB DETAIL  
SECTION NUMBER: S17  
SCALE: 1:20

1	ISSUED FOR PERMIT	20/03/30	M.S.
NO.	REVISION	DATE	BY APPROVED
REVISIONS			
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.			
<b>STRUCTURAL BUILDING SECTION</b>			
	<b>D.G. Biddle &amp; Associates Limited</b> consulting engineers and planners		
96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 FAX (905)576-9730 info@dgbbiddle.com			
LICENSED PROFESSIONAL ENGINEER D.D. BIDDLE PROVINCE OF ONTARIO 30/1/2020	SCALE:	AS SHOWN	PROJECT NO. <b>116194</b>
DRAWN BY: M.A.S.	DRAWING NO.		
DESIGN BY: T.L.R.			
CHECKED BY: D.D.B.			CAD FILE: - SUBMISSION: PERMIT
DATE: JANUARY 2020			



1	ISSUED FOR PERMIT NO.	20/03/30	M.S.	T.L.R.
	REVISION	DATE	BY	APPROVED
REVISIONS				
513 DUNDAS STREET EAST, WHITBY, ON KIYA DEVELOPMENTS LTD.				
<b>STRUCTURAL BUILDING SECTION &amp; DETAILS</b>				
<b>D.G. Biddle &amp; Associates Limited</b> <small>consulting engineers and planners</small> 96 KING STREET EAST • OSHAWA, ON L1H 1B6 PHONE (905)576-8500 FAX (905)576-9730 Info@dgbbiddle.com				
DRAWN BY: M.A.S. DRAWING NO. DESIGN BY: T.L.R. S18 CHECKED BY: D.D.B. CAD FILE: PLOT DATE: 20/03/30 SUBMISSION PERMIT DATE: JANUARY 2020				

LICENSED PROFESSIONAL ENGINEER  
D. D. BIDDLE  
31/03/10  
PROVINCE OF ONTARIO