

(A)

- GENERAL NOTES :
1. THE FOLLOWING NOTES AND THE TYPICAL DETAILS SHOWN ON THE DRAWINGS ARE APPLICABLE TO ALL STRUCTURAL CONDITIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL DRAWINGS.
 2. THE STRUCTURAL DRAWINGS SHALL BE READ WITH THE SPECIFICATIONS, ARCHITECTURAL DRAWINGS, OTHER CONTRACT DOCUMENTS AND OTHER CONSULTANTS' DRAWINGS.
 3. ONLY DIMENSIONS RELATING TO STRUCTURAL ELEMENTS ARE SHOWN ON THE DRAWINGS.
 4. THE DESIGN LIVE LOAD SHOWN UNDER PLANS SHALL NOT BE EXCEEDED DURING CONSTRUCTION. THE CONTRACTOR SHALL MAKE ADEQUATE PROVISIONS FOR CONSTRUCTION LOADS AND FOR ADEQUATE TEMPORARY BRACING TO KEEP THE STRUCTURE (INCLUDING MASONRY WALLS, FLOORS AND ROOF DECKS ETC...) PLUMB AND IN TRUE ALIGNMENT AT ALL PHASES OF CONSTRUCTION.
 5. SEE OTHER CONTRACT DOCUMENTS FOR LOCATIONS AND DIMENSIONS OF PITS, BASES, SLABS, TRENCHES, DEPRESSIONS, GROOVES AND CHAMFERS, NOT SHOWN ON STRUCTURAL DRAWINGS.
 6. ANY INCONSISTENCIES IN DIMENSIONS AND DETAILS BETWEEN STRUCTURAL AND ARCHITECTURAL DRAWINGS ARE TO BE REPORTED TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
 7. DO NOT SCALE DRAWINGS.
 8. NO BACKFILL SHALL BE PLACED AGAINST WALLS UNTIL SLABS BRACING THE TOP AND BOTTOM OF WALLS HAVE BEEN POUNDED AND SET.
 9. ALL FABRICATION & ERECTION DOCUMENTS (SHOP DRAWINGS) INCL. STRUCTURAL STEEL, MISC. IRON, REINFORCING STEEL, PRECAST CONCRETE PANELS ETC., SHALL BE STAMPED AND SIGNED BY A PROFESSIONAL ENGINEER OF ONTARIO AND SUBMITTED TO THE ENGINEER AND ARCHITECT FOR REVIEW. SUBMIT MINIMUM OF 3 COPIES OF PRINTS PLUS 1 COPY OF REPRODUCIBLE COPY. CONTRACTOR SHALL REVIEW THE SHOP DRAWINGS PRIOR TO SUBMISSION TO THE CONSULTANTS. DESIGN AND CONSTRUCTION TO BE IN ACCORDANCE WITH THE CURRENT ONTARIO BUILDING CODE.
 10. ALL INSPECTION COMPANIES TO BE APPOINTED BY THE PRIME CONSULTANT OR BY THE OWNER, NOT BY THE CONTRACTOR, UNLESS CONSENT HAS BEEN OBTAINED FROM THE ABOVE MENTIONED PARTY(IES).
 11. THIS OFFICE AND ITS PERSONNEL HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER ANY CONSTRUCTION CONTRACTOR OR ITS EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY HEALTH OR SAFETY PROGRAMS OR PROCEDURES. THE CLIENT AGREES THAT THE GENERAL CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOBSITE SAFETY, AND WARRANTS THAT THIS INTENT SHALL BE CARRIED OUT IN THE CLIENT'S CONTRACT WITH THE GENERAL CONTRACTOR.
 12. ALL STRUCTURAL WELDING IS TO BE PERFORMED ONLY BY COMPANIES CERTIFIED TO DIVISION 1 OR 2.1 OF CSA W47.1.

(B)

- REINFORCING STEEL :
1. ALL REINFORCING TO BE DEFORMED BARS CONFORMING TO C.S.A. 030-18 GRADE 400 UNLESS OTHERWISE NOTED. PLAN, STIRRUPS AND TIES TO BE DEFORMED BARS TO C.S.A. 030-18 WITH MIN. GRADE 400.
 2. ALL REINFORCING SHALL BE ACCURATELY PLACED AND SUPPORTED BY CONTINUOUS METAL OR OTHER APPROVED CHAIRS. IF REQUIRED, ADDITIONAL BARS OR STIRRUPS SHALL BE PROVIDED BY THE CONTRACTOR TO SECURE MAIN BARS AGAINST DISPLACEMENT.
 3. REINFORCING IN FOOTINGS, SLABS ON EARTH, AND CONCRETE MEMBERS EXPOSED ARCHITECTURALLY OR TO THE WEATHER SHALL BE SUPPORTED IN THE DESIGNATED POSITION BY SOLID PRE-CAST CONCRETE CHAMFER.
 4. MINIMUM CONCRETE COVER FOR REINFORCING :
(A) FOOTINGS AND OTHER MEMBERS Poured AGAINST EARTH75 (3")
(B) CONCRETE Poured IN FORMS, BUT EXPOSED TO WEATHER OR EARTH75 (3")
BARS LARGER THAN 15M100 (4")
(C) CONCRETE NOT EXPOSED TO EARTH OR WEATHER40 (1-1/2")
 5. SLABS AND OTHER MEMBERS Poured AGAINST EARTH75 (3")
(A) MINIMUM CONCRETE COVER FOR REINFORCING :
(B) CONCRETE Poured IN FORMS, BUT EXPOSED TO WEATHER OR EARTH75 (3")
(C) CONCRETE NOT EXPOSED TO EARTH OR WEATHER40 (1-1/2")
 6. SPICES AT POINTS OF MAXIMUM TENSILE STRESS SHALL BE AVOIDED WHEREVER POSSIBLE; SUCH SPICES, WHERE USED, SHALL BE APPROVED BY THE ENGINEER AND SHALL BE 3/8 BAR DIAMETERS. CONTINUOUS AND TEMPORARY REINFORCING BARS SHALL BE LAPPED 24 BAR DIAMETERS OR 450 (1'-6") MIN. AT SPICES OR CORNERS. TERMINATE CONTIGUOUS BARS AT NON-CONTINUOUS ENDS WITH STANDARD HOOKS.
 7. MINIMUM CLEAR DISTANCE BETWEEN PARALLEL BARS SHALL BE GREATER THAN THE FOLLOWING:
(A) 1-1/2 TIMES BAR DIAMETER.
(B) 1.33 TIMES MAXIMUM SIZE OF AGGREGATE.
(C) 25 (1") MINIMUM.

(C)

- CONCRETE
1. ALL CONSTRUCTION AND DESIGN TO CONFORM TO O.B.C. 2012 AND ALL APPLICABLE C.S.A., A.S.T.M. AND A.C.I. STANDARDS, LATEST EDITIONS. REFER TO PLAN NOTES FOR CONCRETE STRENGTHS FOR STRUCTURAL REQUIREMENTS. REFER TO TABLE 11 & 14 OF C.S.A. STANDARD A23.1/A23.2/A23.3 FOR MAX. PERMISSIBLE WATER CEMENT RATIOS AND MIN. COMPREHENSIVE STRENGTHS FOR DIFFERENT TYPES OF STRUCTURES AND VARYING DEGREES OF EXPOSURE.
 2. MINIMUM ONE STRENGTH TEST SHALL BE MADE FOR EACH 100 C.U.M. (131 CU. YDS.) OF EACH TYPE OF CONCRETE WITH MINIMUM ONE TEST FOR EACH CONCRETE TYPE ON ANY ONE DAY. EACH STRENGTH TEST SHALL CONSIST OF 4 SPECIMENS, TWO TO BE TESTED AT 7 DAYS AND 2 AT 28 DAYS, MAXIMUM SLUMP TO BE 75 (3") MAX. FOR SLABS, BEAMS AND WALLS, & 100 (4") MAX. FOR COLUMNS AND FOOTINGS.
 3. VERTICAL CONSTRUCTION JOINTS IN BASEMENT WALLS SHALL BE PROVIDED WITH WATER STOPS.
 4. VERTICAL CONSTRUCTION JOINTS IN FLOOR SLABS SHALL BE PROVIDED NEAR THE MIDDLE OF THE SPANS OF SLABS OR BEAMS UNLESS OTHERWISE SHOWN ON PLANS OR SECTIONS. CONSTRUCTION JOINTS SHALL BE PLANNED IN ADVANCE AND IN CONSULTATION WITH THE ENGINEER.
 5. NO HORIZONTAL CONSTRUCTION JOINTS SHALL BE ALLOWED IN CONCRETE WALLS, BEAMS AND SLABS UNLESS OTHERWISE SHOWN ON SECTIONS OR PLANS.
 6. BEAMS, BRACKETS, COLUMN CAPITAL AND HAUNCHES SHALL BE CONSIDERED AS PART OF THE FLOOR SYSTEM AND SHALL BE Poured MONOLITHICALLY WITH THE FLOOR SLAB UNLESS OTHERWISE SHOWN ON THE SECTIONS.
 7. CONCRETE CONTRACTOR TO SET ALL LOOSE MEMBERS THAT ARE TO BE EMBEDDED IN THE CONCRETE (e.g. STEEL WALL PLATES, LOOSE LINTELS, PIPE SLEEVES, ETC.).
 8. FORMWORK CONTRACTOR TO FORM ALL HOLES, CHASES, ETC. AND TO SET INSERTS, ANCHOR BOLTS AND OTHER EMBEDDED MEMBERS WHICH ARE REQUIRED TO BE HELD IN PLACE BY THE FORMWORK BEFORE Poured CONCRETE. PROVIDE FORMWORK SUFFICIENT TO OBTAIN REQUIRED ARCHITECTURAL FINISHES.
 9. PLUMBING SLOTS, HOLES AROUND PIPES, DUCTS OR OTHER ITEMS WHICH PASS INTO OR THROUGH CONCRETE SLAB OR WALL SHALL BE FILLED AND PATCHED TO THE SAME DEPTHS AS THE FLOOR SLAB OR WALL.
 10. REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PRECAST SHOP DRAWINGS FOR LOCATIONS OF HOLES, CHASES, PLATES, INSERTS AND PIPE SLEEVES. THIS ENGINEER HAS THE FINAL APPROVAL ON SIZES AND LOCATIONS OF HOLES AND PIPE SLEEVES IN SLABS AND WALLS.
 11. ALL CONCRETE SURFACES TO BE FINISHED IN ACCORDANCE WITH ARCHITECTURAL REQUIREMENTS.
 12. ALL SLAB, BEAM AND JOIST FORMS SHALL BE CAMBERED 1 IN 800 OF SPAN UNLESS OTHERWISE NOTED. THE CAMBER OF THE FORM SHALL BE CHECKED AND ADJUSTED BEFORE THE INITIAL SET OF CONCRETE. SPECIFIED THICKNESS OF CONCRETE MEMBER MUST BE MAINTAINED THROUGHOUT.
 13. NO OPENING LARGER THAN 250 x 250 (10" x 10") ARE ALLOWED IN SLAB OTHER THAN SHOWN ON DRAWINGS.
 14. MINIMUM DISTANCE BETWEEN RECTANGULAR OPENINGS TO BE 300 (12"), MINIMUM DISTANCE BETWEEN RECTANGULAR OPENINGS AND NEAREST SLEEVE TO BE 200 (8").
 15. MINIMUM DISTANCE BETWEEN ROUND SLEEVES TO BE 75 (3").
 16. ALL CONCRETE WORK HAS BEEN DESIGNED BY THE LIMIT STATES DESIGN METHOD.
 17. SUBMIT CONCRETE MIX DESIGN TO INSPECTION AND TESTING COMPANY FOR REVIEW AND COMMENT PRIOR STARTING CONSTRUCTION.

(F)

- MASONRY :
1. ALL MASONRY MATERIALS AND WORKMANSHIP SHALL CONFORM TO SECTION 4.4 OF THE ONTARIO BUILDING CODE (LATEST EDITION), CSA A169, CSA S304.1 & CSA A370.
 2. ALL LOAD-BEARING CONCRETE BLOCKS TO HAVE AN ULTIMATE COMPRESSIVE STRENGTH OF 25 MPa (3625 P.S.I.) MINIMUM, BASED ON NET AREA.
 3. MORTAR FOR LOAD-BEARING & EXTERIOR MASONRY WALL TO BE TYPE S OR BETTER WITH MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 12.5 MPa (1800 P.S.I.) @ 28 DAYS.
 4. MORTAR FOR INTERIOR NON-LOAD-BEARING MASONRY WALL TO BE TYPE N OR BETTER WITH MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 9.17 MPa (1320 P.S.I.) @ 28 DAYS.
 5. PROVIDE 3 COURSES OF SOLID BRICK MASONRY OR 1 COURSE OF SOLID OR GROUTED BLOCK, UNDER ALL BEARING PLATES BEARING ON MASONRY FOR A DISTANCE OF NOT LESS THAN 200 (8") PAST BEARING PLATES ON EACH SIDE.
 6. ALL INTERSECTING MASONRY WALLS TO HAVE MASONRY BOND OR HEAVY DUTY "BLOK-LOK" OR EQUIVALENT @ 400 (16") O.C. MAX. VERTICALLY.
 7. FOR BONDING OF BRICK AND BLOCK USE HEAVY-DUTY TRUSS-TYPE "BLOK-LOK" OR EQUIVALENT @ 400 (16") O.C. MAX. VERTICALLY, COMPLETELY EMBEDDED IN MORTAR. PROVIDE LINTELS OVER ALL OPENINGS AND RECESSES.
 8. MINIMUM BEARING ON MASONRY WALLS TO BE AS FOLLOWS :
STEEL BEAM200 (8")
CONCRETE BEAM200 (8")
STEEL LINTELS150 (6")
CONC. OR REINF. BLOCK LINTELS200 (8")
CONCRETE SLAB100 (4")
CONTS. CONCRETE SLAB200 (8")
 9. PROVIDE MIN. 25 (1") GROUT UNDER ALL WALL PLATES.
 10. FOR CORROSION PROTECTION : USE HOT DIP GALVANIZED WIRE REINFORCEMENT IN EXTERIOR MASONRY WALL AND MILD GALVANIZED WIRE REINFORCEMENT IN INTERIOR WALL.
 11. REFER TO ARCHITECT. DRG. FOR LOCATIONS OF MASONRY CONTROL JOINTS.

(G)

- STRUCTURAL STEEL :
1. ALL STRUCTURAL STEEL TO BE NEW MATERIAL, C.S.A. G40.21 GRADE 350W WITH A MINIMUM YIELD STRENGTH OF 350 K.S.I. UNLESS OTHERWISE NOTED. ALL H.S.S. TO BE C.S.A. G40.20 GRADE 350W CLASS H, AND ALL W.F. SECTION TO BE C.S.A. G40.21.M GRADE 350W WITH A MINIMUM YIELD STRENGTH OF 50 K.S.I.
 2. FABRICATION AND ERECTION TO CONFORM TO C.S.A. S16 LATEST EDITION.
 3. ALL STRUCTURAL STEEL SHOP DRAWINGS TO BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.
 4. CALCULATIONS FOR CONNECTIONS AND SHOP DETAILS, BEARING THE STAMP OF A REGISTERED PROFESSIONAL ENGINEER, TO BE SUBMITTED TO THE ENGINEER PRIOR TO FABRICATION AS REQUESTED.
 5. NO HOLES TO BE PUT IN BEAM FLANGES IN TENSION.
 6. WHERE REQUIRED, PROVIDE HOLES IN MEMBERS FOR ATTACHMENT OF OTHER MATERIALS.
 7. NO SPICES IN BEAMS AND COLUMNS ALLOWED UNLESS APPROVED BY THE ENGINEER. BUTT WELDS IN SUCH SPICES & MOMENT CONNECTIONS TO BE X-RAYED OR ULTRASONICALLY TESTED BY AN INDEPENDENT TESTING COMPANY.
 8. WELD COLUMNS ALL AROUND TO CAP AND BASE PLATES.
 9. FOR BEAMS CANTILEVERED OVER COLUMNS:
(A) USE 10 (3/8") STIFFENERS IN ROOF BEAMS OVER WEB, OR ONE COLUMN FLANGE.
(B) USE 10 (3/8") STIFFENERS IN FLOOR BEAMS OVER WEB OR BOTH COLUMN FLANGE.
(C) USE 25 (1") CAP PLATE & 4 - M20 (3/4") DIA. HIGH TENSILE BOLTS FOR ALL COLUMNS.
 10. PROVIDE 38 x 6 x 200 LONG STRAP ANCHORS & 2000 (6'-8") C/C MAX. FOR ALL BEAMS & JOISTS IN CONTACT WITH OR ADJACENT TO MASONRY UNLESS OTHERWISE NOTED.
 11. PROVIDE ADJUSTABLE ANCHORS @ 400 (1'-4") C/C MAX. VERTICALLY FOR ALL COLUMNS IN CONTACT WITH OR ADJACENT TO MASONRY UNLESS OTHERWISE NOTED.
 12. PROVIDE DECK SUPPORT AT COLUMNS WHERE REQUIRED.
 13. CANTILEVER BEAMS ARE BY PLASTIC DESIGN.
 14. STEEL DETAILER TO DESIGN CONNECTIONS TO MINIMUM 50% STEEL MEMBER ALLOWABLE SHEAR CAPACITY UNLESS NOTED OTHERWISE.
 15. ALL STRUCTURAL STEEL TO BE PRIME PAINTED AND/OR TO OWNER'S SPECIFICATION.

(I)

- REINFORCED MASONRY LOAD-BEARING WALLS
1. ALL CONSTRUCTION TO CONFORM TO O.B.C. 2012 AND LATEST EDITIONS OF ALL APPLICABLE C.S.A. & A.C.I. STANDARDS.
 2. CONCRETE BLOCKS TO BE NORMAL HOLLOW BLOCKS HAVING AN ULTIMATE COMPRESSIVE STRENGTH OF 3625 PSI (25 MPa) MIN. (7#).
 3. MORTAR TO BE TYPE 'S' OR BETTER WITH MINIMUM AVERAGE COMPRESSIVE STRENGTH OF 1800 PSI @ 28 DAYS, (12.5 MPa), COMPOSED BY VOLUME IN PROPORTIONS AS BELOW :
1/2 PART PORTLAND CEMENT
1/2 PART MASONRY CEMENT
2 1/4 TO 3 PARTS SAND
 4. GROUT TO HAVE COMPRESSIVE STRENGTH (f_c) OF 2500 PSI (17 MPa) @ 28 DAYS.
 5. ALL CELLS CONTAINING REINFORCING STEEL SHALL BE FILLED WITH GROUT IN LIFTS NOT EXCEEDING 4 FT. (1200). GROUT SHALL BE CONSOLIDATED BY TAMPING OR VIBRATING DURING POURING.
 6. HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT 1-1/2" (38) BELOW THE TOP BLOCK.
 7. ALL REINFORCING STEEL TO CSA 030-18, GRADE 400.
 8. SIX MORTAR CUBE SPECIMENS, THREE FROM EACH OF TWO DIFFERENT LOCATIONS, SHALL BE MADE FOR EACH 5,000 SQUARE FT. (4600 SQ.M) OF WALL, CURED AND TESTED TWO @ 7 DAYS AND FOUR @ 28 DAYS.
 9. MORTAR TEST CUBES SHALL BE MADE, CURED AND TESTED IN ACCORDANCE WITH CSA A179 LATEST EDITION "MORTAR FOR UNIT MASONRY".
 10. GROUT TO BE TESTED IN ACCORDANCE WITH NOTE 8 AND 9.
 11. INSPECTION BY THIS OFFICE IS MANDATORY. NOTIFY THIS OFFICE AT LEAST 24 HRS. BEFORE ERECTION OF WALL.

(K)

SITE REVIEWS & REPORTS BY VARIOUS INSPECTION/TESTING AGENCIES:

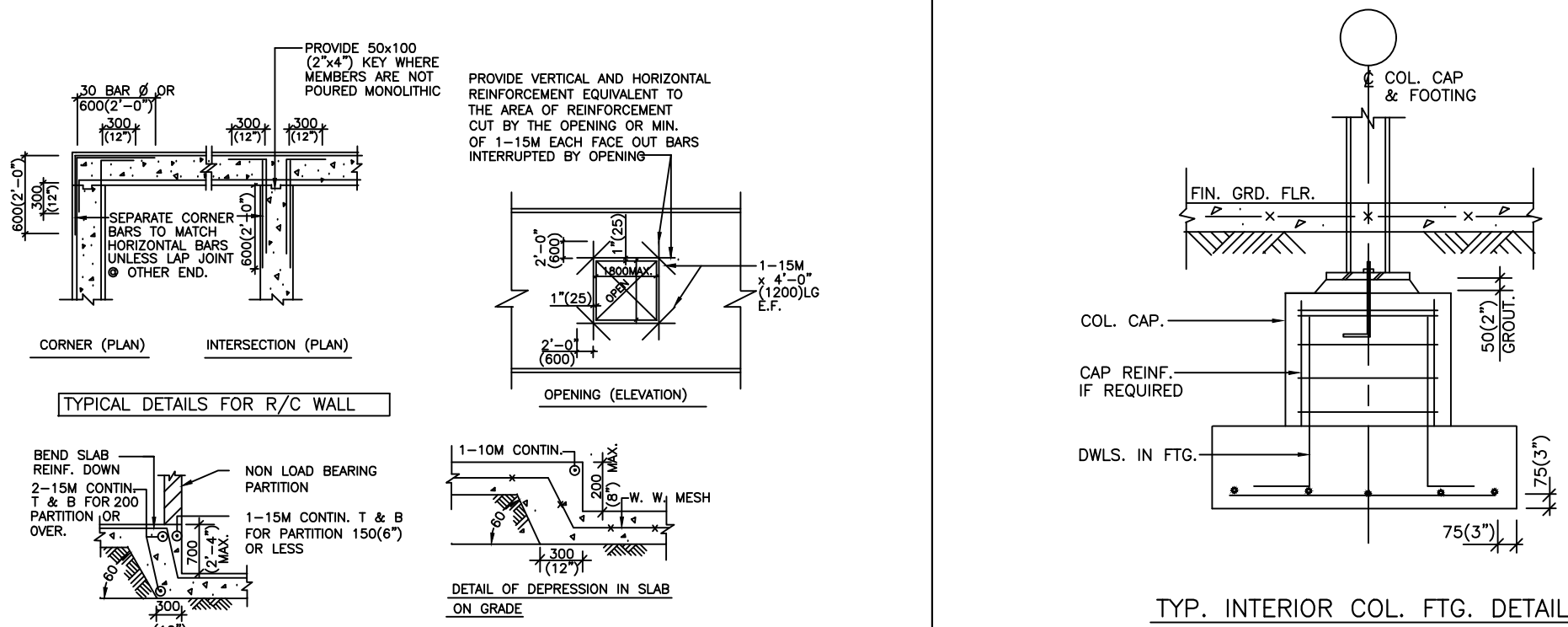
AS PER REVISED ONTARIO BUILDING CODE AND REGULATIONS, WE, AS STRUCTURAL ENGINEERING CONSULTANTS, ARE RESPONSIBLE TO CARRY OUT SITE REVIEW AT DIFFERENT STAGES OF CONSTRUCTION. CONTRACTOR MUST NOTIFY OUR OFFICE OF EACH STAGE OF CONSTRUCTION FOR SITE REVIEW. MINIMUM OF 24 HOURS IN ADVANCE. INSPECTIONS ARE INCLUDED BUT NOT LIMITED TO THE FOLLOWING STAGES WHERE APPLICABLE:

1. READINESS TO CONSTRUCT FOOTINGS AND FOUNDATION WALLS.
2. SUBSTANTIAL COMPLETION OF FOOTINGS AND FOUNDATIONS PRIOR TO COMMENCEMENT OF BACKFILLING.
3. FOR INSPECTION OF REINFORCING BARS IN FOOTING, SLAB, COLUMNS, PIERS, BEAMS & MASONRY WALLS etc.
4. CONCRETE OR MASONRY WALLS.
5. SUBSTANTIAL COMPLETION OF STRUCTURAL FRAMING.
6. COMPLETION OF CONSTRUCTION AND INSTALLATION OF COMPONENTS REQUIRED TO ISSUE FINAL OR SUBSTANTIAL COMPLETION CERTIFICATES.

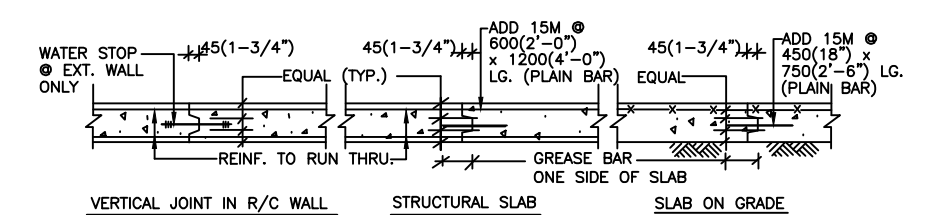
PLEASE ALSO NOTE THAT INDEPENDENT INSPECTION AND TESTING AGENCIES MUST BE APPOINTED AND/OR CONSENTED BY THE PRIME CONSULTANT FOR INSPECTION AND TESTING. ALL PROGRESSIVE INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE ARCHITECT AND THIS OFFICE INCLUDING BUT NOT LIMITED TO THE FOLLOWINGS:

1. SOIL INSPECTION REPORTS FOR THE FOUNDING SOIL.
2. SOIL INSPECTION REPORTS FOR COMPACTION OF ANY BACK-FILL, SUB-BASE UNDER SLAB-ON-GRADE, INCLUDING DESCRIPTION OF MATERIALS USED.
3. CONCRETE TEST REPORTS AS PER CODE AND CSA A23.1/A23.2.
4. MORTAR TEST REPORTS FOR MASONRY WALLS IF APPLICABLE.
5. REINFORCED & PLAN CONCRETE BLOCK WALLS.
6. STRUCTURAL STEEL CERTIFICATE.
7. STRUCTURAL STEEL FABRICATION INSPECTION REPORT.
8. PROGRESSIVE AND FINAL STRUCTURAL STEEL ERECTION REPORTS.
9. STEEL DECK INSTALLATION REPORTS.
10. STRUCTURAL STEEL STUD INSPECTION REPORT, IF APPLICABLE.
11. PRECAST PANELS, CORE SLAB INSPECTION REPORTS, IF APPLICABLE.

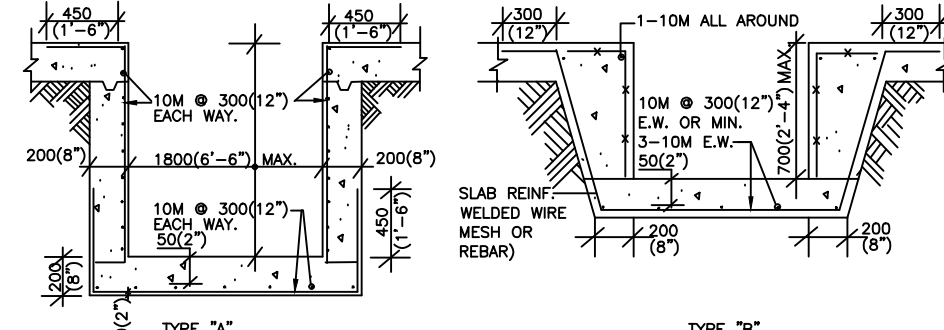
PLEASE NOTE THAT ALL PROGRESSIVE AND FINAL INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THIS OFFICE PRIOR TO FINAL INSPECTION BY OUR OFFICE.



TYPICAL DETAILS FOR SLAB ON GRADE



TYPICAL DETAILS OF CONSTRUCTION JOINTS

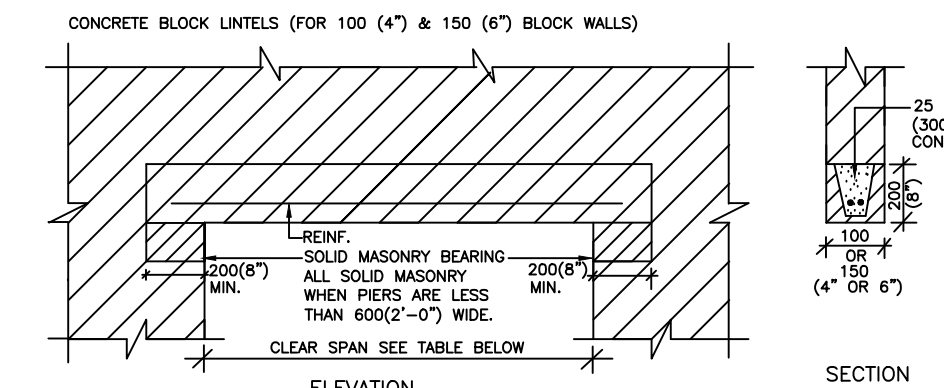


TYPICAL DETAILS OF PITS

STEEL LINTELS FOR NON-LOAD-BEARING WALL			
CLEAR SPAN	200 (8") WALL	250 (10") WALL	300 (12") WALL
TYPE	MATERIAL	TYPE	MATERIAL
UP TO 1500 (4'-0")	90x90x8 (3-1/2x3-1/2x1/4)	120x90x8 (3-1/2x3-1/2x1/4)	90x90x8 (3-1/2x3-1/2x1/4)
1500 TO 1800 (5'-0")	120x90x8 (4x3-1/2x1/4)	120x90x8 (4x3-1/2x1/4)	120x90x8 (4x3-1/2x1/4)
1800 TO 2100 (6'-0")	120x90x8 (4x3-1/2x1/4)	120x90x8 (4x3-1/2x1/4)	120x90x8 (4x3-1/2x1/4)

NOTES :

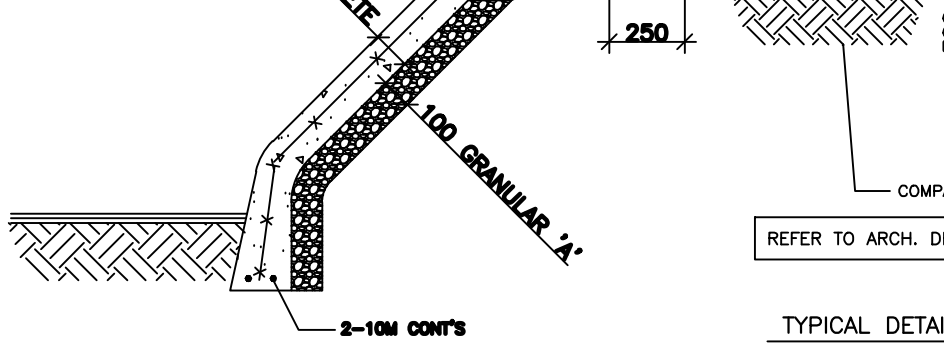
- (1) DOUBLE ANGLES SHALL BE STITCH WELDED BACK TO BACK 1-5 (3/16") WELD 25 (1") LONG PER 600 (2'-0") LENGTH TOP AND BOTTOM.
- (2) WHERE ANGLES DO NOT BEAR AT THE SAME ELEVATION USE STEEL PLATING TO ENSURE EVEN BEARING.
- (3) FOR WALLS THICKER THAN 300 (12") AND 1 ANGLE OF SIZE SPECIFIED FOR 300 (12") WALL PER ADDITIONAL 100 (4") THICKNESS OF WALL.



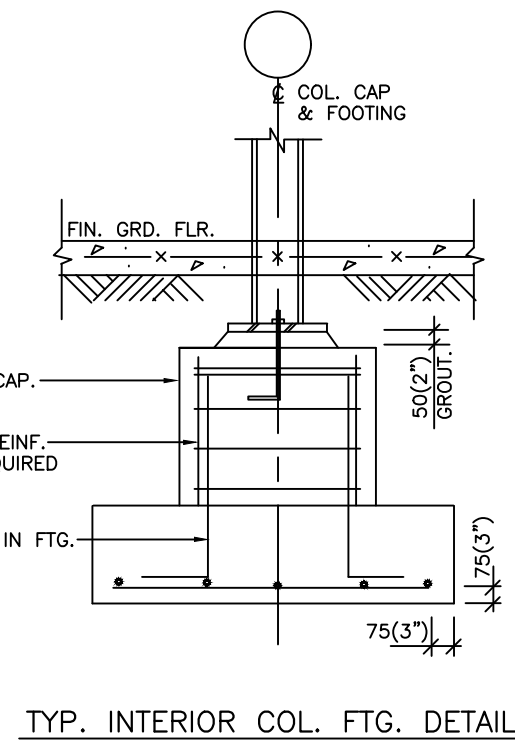
CLEAR SPAN	REINFORCEMENT
100 (4") WALLS	UP TO 1800 (6'-0")
150 (6") WALLS	UP TO 1800 (6'-0")

1. SOIL INSPECTION REPORTS FOR THE FOUNDING SOIL.
2. SOIL INSPECTION REPORTS FOR COMPACTION OF ANY BACK-FILL, SUB-BASE UNDER SLAB-ON-GRADE, INCLUDING DESCRIPTION OF MATERIALS USED.
3. CONCRETE TEST REPORTS AS PER CODE AND CSA A23.1/A23.2.
4. MORTAR TEST REPORTS FOR MASONRY WALLS IF APPLICABLE.
5. REINFORCED & PLAN CONCRETE BLOCK WALLS.
6. STRUCTURAL STEEL CERTIFICATE.
7. STRUCTURAL STEEL FABRICATION INSPECTION REPORT.
8. PROGRESSIVE AND FINAL STRUCTURAL STEEL ERECTION REPORTS.
9. STEEL DECK INSTALLATION REPORTS.
10. STRUCTURAL STEEL STUD INSPECTION REPORT, IF APPLICABLE.
11. PRECAST PANELS, CORE SLAB INSPECTION REPORTS, IF APPLICABLE.

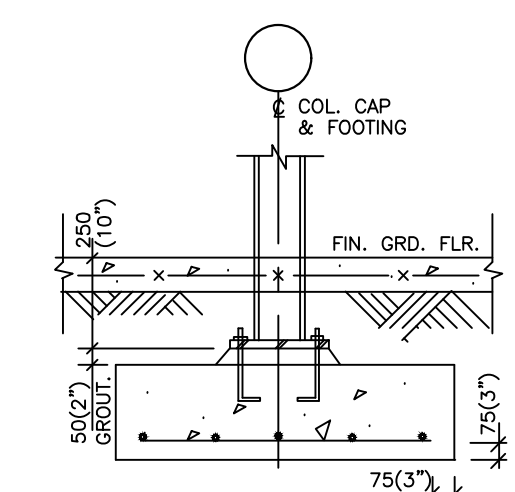
PLEASE NOTE THAT ALL PROGRESSIVE AND FINAL INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THIS OFFICE PRIOR TO FINAL INSPECTION BY OUR OFFICE.



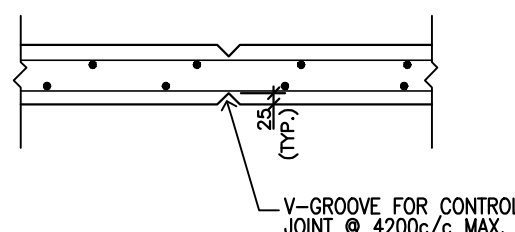
TYPICAL DETAIL OF BUILDING ACCESS RAMP



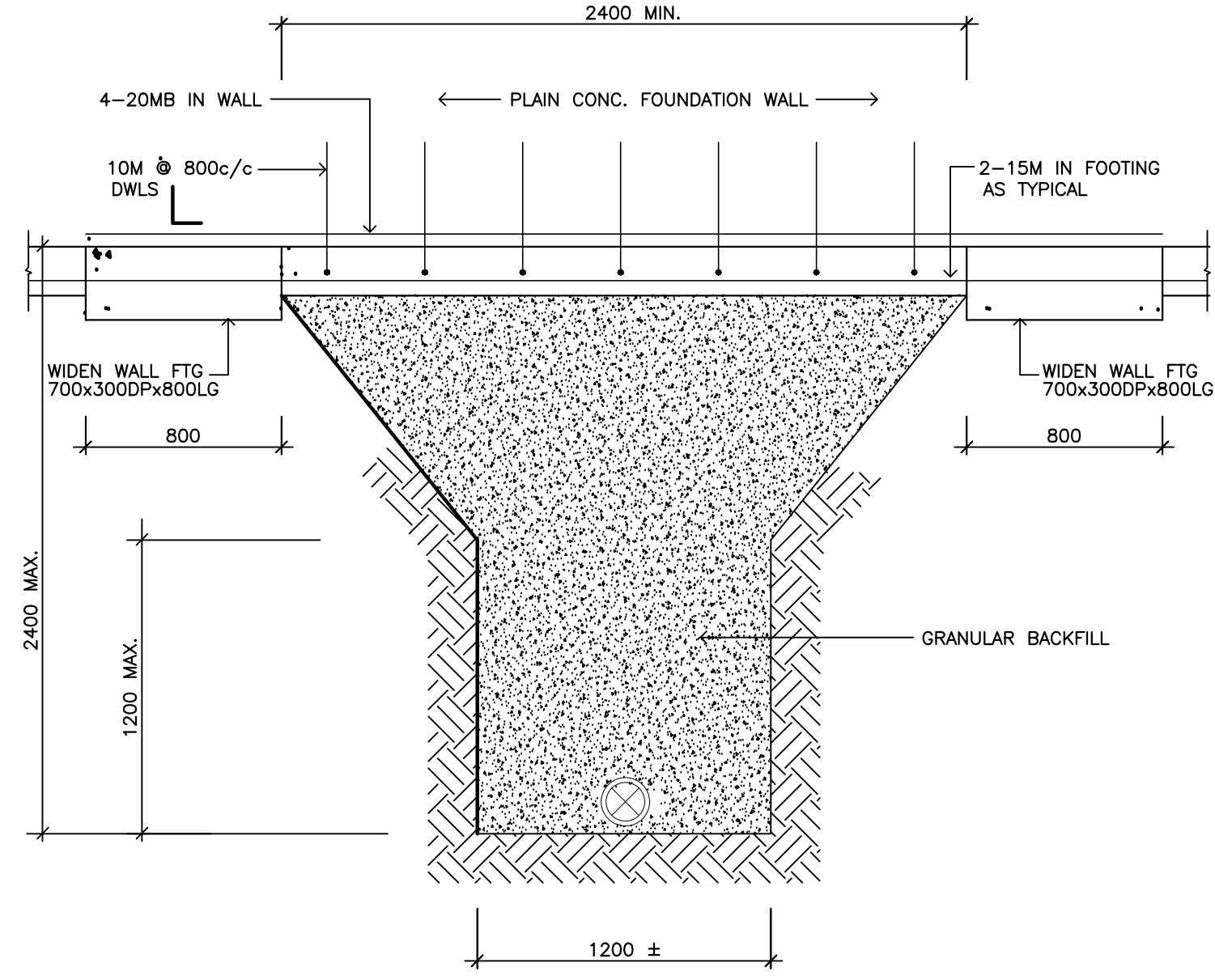
TYP. INTERIOR COL. FTG. DETAIL



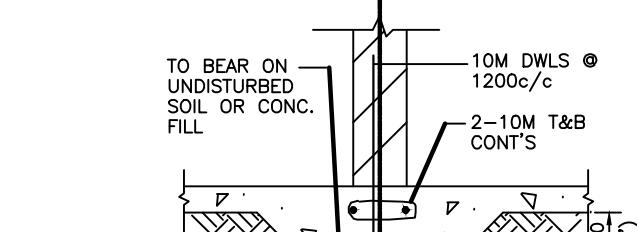
TYPICAL DETAIL OF INTERNAL COLUMN FOOTING ON COMPACTED FILL OR ON COMPETENT SOIL WHERE CAP IS NOT REQUIRED



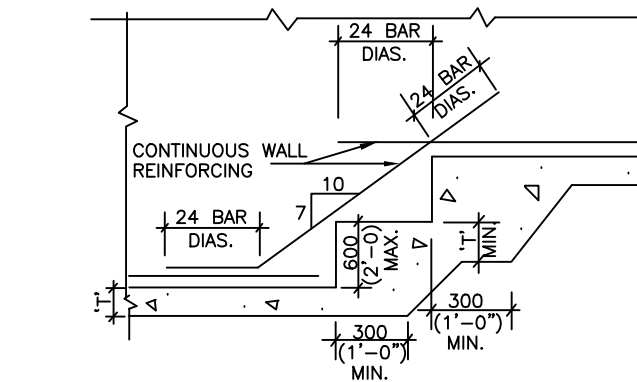
TYP. DETAIL FOR CONTROL JOINT ON CONCRETE WALL
SCALE 1/8"



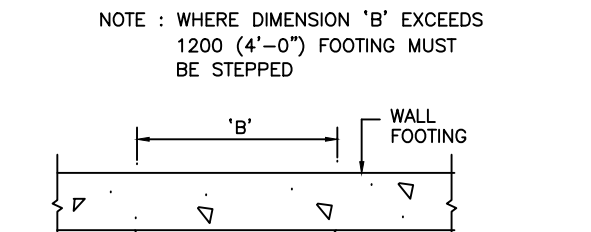
TYPICAL DETAILS OF FOOTING/FOUNDATION WALL SPANNING OVER DEEP SERVICE LINES



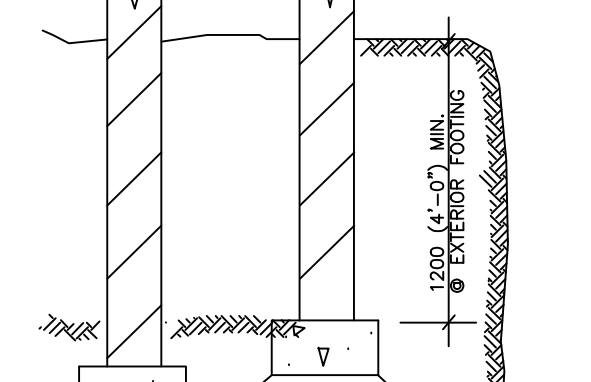
TYPICAL DETAIL OF SLAB ON GRADE UNDER NON-LOAD BEARING WALL 200 (8") THICK OR LESS
(TYPICAL SLAB THICKENING DETAIL)



TYPICAL DETAIL OF STEPPED FOOTING



DETAIL OF BACKFILL UNDER WALL



ELEVATIONS OF ADJACENT FOOTING EXCAVATIONS

TO BE READ IN CONJUNCTION WITH CONTRACT DOCUMENTS

3	ISSUED FOR CONSTRUCTION.	DEC.10.2018
1	ISSUED FOR PERMIT AND TENDER.	JULY13.2018
No.	Revision/Issue	Date

Check and verify all dimensions before proceeding with the work. Do not scale drawings

McINTOSH PERRY
7900 KEELE STREET SUITE 200 CONCORD ON L4K 2A3
TEL: 905.856.5200 FAX: 905.695.0221
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Client:

Project: **NEW 2 STOREY BUILDING : SENIORS RESIDENCE**
100 MCKAY STREET,
CANNINGTON, ON.

Drawing Title: **GENERAL NOTES AND TYPICAL DETAILS**

Scale: N.T.S.	Project Number: 0T1-815905-ST
Drawn by: J.T.	
Checked By: J.S.	Drawing Number:
Designed By: S.G.	
Date: MARCH, 2018	S0.1