GENERAL NOTES

- 1. CONTRACTOR TO VERIFY ALL DIMENSIONS FOR THE WORK PRIOR TO COMMENCEMENT OF WORK AND NOTIFY DEPARTMENTAL REPRESENTATIVE OF ANY DISCREPANCIES.
- 2. STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. THEY DO NOT SHOW COMPONENTS WHICH MAY BE NECESSARY FOR CONSTRUCTION SAFETY. CONTRACTOR IS RESPONSIBLE FOR SAFETY ON AND ABOUT THE JOB SITE DURING CONSTRUCTION.
- 3. CONTRACTOR TO ENSURE THAT ALL WORK IS CARRIED OUT BY THE RULES AND CUSTOMS OF THE BEST TRADE PRACTICES AND THEIR SPECIFICATIONS BY SKILLED TRADES PEOPLE KNOWLEDGEABLE OF THE TYPE OF CONSTRUCTION. THEY ARE TO BE PROPERLY EQUIPPED AND SUPERVISED.
- 4. NOTIFY DEPARTMENTAL REPRESENTATIVE 24 HOURS IN ADVANCE FOR CONSTRUCTION REVIEW OF THE WORK AS SHOWN ON THE STRUCTURAL DRAWINGS IN ACCORDANCE.
- 5. STRUCTURAL DESIGN DATA. a. ENGINEER OF RECORD: RANDALL EMERY, P.ENG.
- b. DESIGN CODE NATIONAL BUILDING CODE OF CANADA 2015 PART 4. c. SWITCHGEAR TOTAL WEIGHT = 4550 kg
- SEISMIC PARAMETERS: Sa (0.2) = 1.3
- Cp = 1.00
- Ar = 2.50 Ax = 1.00
- PGA = 0.58 le = 1.5

FOUNDATION NOTES

- 1. FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURES OF 100 kN/m2 TO BE VERIFIED BY GEOTECHNICAL ENGINEER DURING CONSTRUCTION. FOOTINGS TO BEAR ON UNDISTURBED NATIVE SOIL OR COMPACTED GRANULAR FILL AS DESCRIBED IN THE GEOTECHNICAL REPORT.
- 2. BEARING SURFACES MUST BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO FOOTING CONCRETE BEING PLACED. DEPARTMENTAL REPRESENTATIVE IS NOT RESPONSIBLE FOR CONFIRMING BEARING CAPACITIES OF SOILS.

3. PROTECT BEARING SURFACES FROM FREEZING BEFORE AND AFTER FOOTINGS ARE POURED.

CONCRETE AND REINFORCING NOTES

CONCRETE TO BE READY MIX CONCRETE CONFORMING TO THE CURRENT STANDARD CSA A23.1/A23.2. CEMENT TO BE TYPE GU OR GUb HYDRAULIC CEMENT CONFORMING TO CSA A3000. USE ADMIXTURES ONLY WITH WRITTEN APPROVAL OF THE ENGINEER.

	28 DAY		
LOCATION	COMPRESSIVE		
	STRENGTH (MPa)		
DUCT BANKS	30 ` ´		
FOUNDATION PAD	35		

REFER TO PROJECT SPECIFICATIONS FOR MINIMUM CEMENTITIOUS CONTENT, SLUMP, MAXIMUM AGGREGATE SIZE, CLASS OF EXPOSURE AND OTHER REQUIREMENTS.

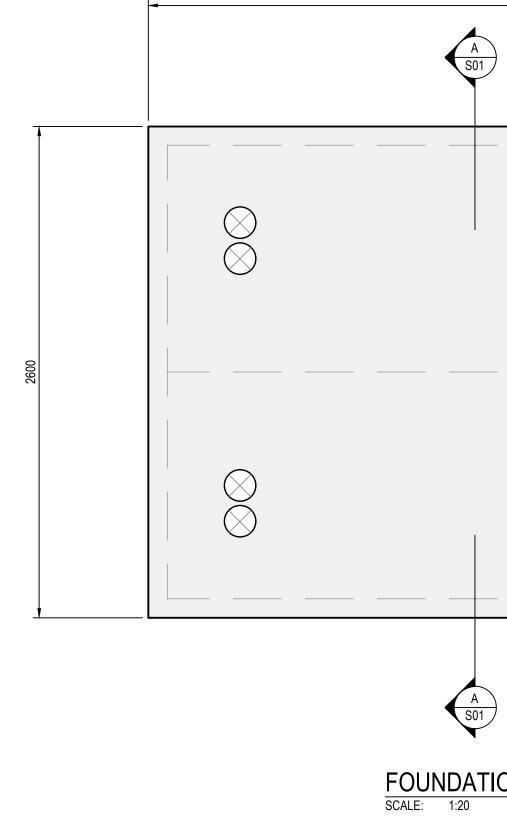
- 2. REINFORCEMENT TO BE BILLET STEEL CONFORMING TO THE REQUIREMENTS OF THE FOLLOWING CSA STANDARDS: GRADE 400 ALL REINFORCING U/N CSA G30.18(R)
- 3. CONCRETE PROTECTION ON PRINCIPAL REINFORCING SHALL BE AS FOLLOWS: SURFACES PLACED IN CONTACT WITH GROUND: 75mm [3"] FORMED SURFACES EXPOSED TO GROUND OR WEATHER: 50mm [2"]
- 4. A CSA CERTIFIED MATERIALS TESTING LABORATORY SHALL BE APPOINTED TO REVIEW CONCRETE MIXES AND TO GATHER AND TEST CONCRETE CYLINDERS. COPIES OF TEST RESULTS
- TO BE SENT TO THE STRUCTURAL ENGINEER AND CONTRACTOR. a. A SUFFICIENT NUMBER OF TESTS SHALL BE MADE TO ENSURE A UNIFORM SLUMP OF CONCRETE. A SLUMP TEST SHALL BE MADE WITH EVERY STRENGTH TEST AND EVERY
- SECOND OR THIRD AIR TEST. b. AN AIR CONTENT DETERMINATION SHALL BE MADE WITH EVERY STRENGTH TEST. c. NOT LESS THAN ONE STRENGTH TEST (SET OF THREE CYLINDERS) SHALL BE MADE FOR EACH 100 CUBIC METERS OF CONCRETE PLACED, AND IN NO CASE SHALL THERE BE FEWER THAN ONE TEST FOR EACH CLASS OF CONCRETE PLACED ON ANY ONE DAY, AS DESIGNATED BY THE OWNER. WHEN HIGH-PERFORMANCE OR HIGH-STRENGTH CONCRETE IS INVOLVED, OR WHERE STRUCTURAL REQUIREMENTS ARE CRITICAL, THE OWNER MAY REQUIRE A HIGHER FREQUENCY OF TESTING, WHICH SHALL BE DEFINED IN THE CONTRACT DOCUMENTS.
- 5. HORIZONTAL WALL REINFORCING SHALL BE CONTINUOUS AROUND CORNERS AND HOOKED AT WALL INTERSECTIONS. ADD 2-15M CONT AT TOPS AND ENDS OF WALLS. UNLESS OTHERWISE NOTED, HOOK AND LAP LENGTHS AS FOLLOWS: BAR SIZE VERT LAP HORL LAP HOOK LENGTH
- 10M 430mm [17"] 500mm [20"] 180mm [7"] 15M 600mm [24"] 800mm [32"] 250mm [10"]
- 8. REINFORCING SHALL BE PLACED AND BENT IN ACCORDANCE WITH CSA A23.1.

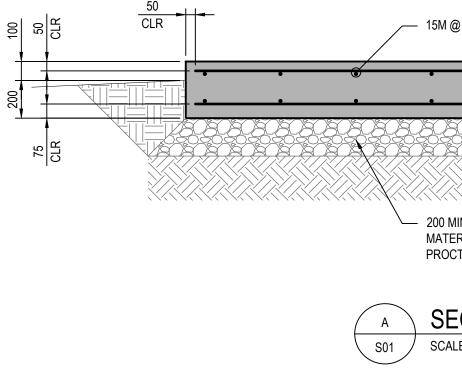
AROUND OTHER OPENINGS. SPREAD REINFORCING AROUND OPENINGS.

- 10. REINFORCING BARS SHALL BE ACCURATELY PLACED, ADEQUATELY SUPPORTED, AND SECURED AGAINST DISPLACEMENT PRIOR TO PLACING OF CONCRETE.
- 11. STEEL REINFORCING PLACER SHALL BE PRESENT DURING ALL CONCRETE POURS TO ENSURE THAT THE REINFORCING STEEL REMAINS IN THE CORRECT POSITIONS.
- 12. UNLESS OTHERWISE NOTED, SLAB REINFORCING NOT TO BE CUT AT PLUMBING, DUCTS, OR
- 13. ALL CONCRETE IS TO BE VIBRATED.

ABBREVIATIONS

AB	-	ANCHOR BOLT
ALT	-	ALTERNATE
APPROX	-	APPROXIMATELY
ARCH	-	ARCHITECT
вот	-	BOTTOM
BLDG	-	BUILDING
BS	-	BOTH SIDES
CCJ	-	CRACK CONTROL JOINT
DWG	-	DRAWING
E)	-	EXISTING
ΞF	-	EACH FACE
EL	-	ELEVATION
EW	-	EACH WAY
TG	-	FOOTING
S	-	FAR SIDE
GALV	-	GALVANIZED
HORIZ	-	HORIZONTAL
G	-	LONG
VAX	-	MAXIMUM
MIN	-	MINIMUM
NS	-	NEAR SIDE
NTS	-	NOT TO SCALE
C	-	ON CENTER
R/W	-	REINFORCE WITH
REINF	-	REINFORCEMENT
SOG	-	SLAB ON GRADE
STD	-	STANDARD
ГОС	-	TOP OF CONCRETE
TOF	-	TOP OF FOOTING
TOS	-	TOP OF STEEL
ΓYΡ	-	TYPICAL
J/N	-	UNLESS NOTED
J/S	-	UNDERSIDE
VВ	-	VAPOUR BARRIER
VERT	-	VERTICAL





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