

**A. BUILDING CODE AND MATERIAL DESIGN STANDARDS**

1. BRITISH COLUMBIA BUILDING CODE (BCBC) 2018.
2. CSA S304.1-14 MASONRY DESIGN FOR STRUCTURES.
3. CSA A23.3-14 DESIGN OF CONCRETE STRUCTURES.

**B. REINFORCED CONCRETE**

1. CONCRETE: CONFORM TO THE REQUIREMENTS OF CSA-A23.1-14, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION, AND CSA A23.2-14, TEST METHODS AND STANDARD PRACTICES FOR CONCRETE, AND TABLE 1 BELOW:

TABLE 1

LOCATION MEMBER	MIN. F'c AT 28 DAYS (MPA)	EXPOSURE CLASS	MAX. AGGREGATE SIZE (MM)
CONCRETE PAD	30	F-1	25

2. ALL CONCRETE IS TO BE MOIST OR WET CURED AT THE SPECIFIED TEMPERATURE RANGE FOR THE SPECIFIED EXPOSURE CLASS.
3. ADMIXTURES: TO ASTM C494/C494M-15A - STANDARD SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE. ADMIXTURES OTHER THAN WATER-REDUCING AND AIR-ENTRAINING ARE NOT TO BE USED UNLESS ACCEPTED BY WEC. PROVIDE WATER-REDUCING AND AIR-ENTRAINING AGENTS THAT ARE COMPATIBLE AND SUITABLE FOR FINISHING CONCRETE AFTER PLACING.
4. IMMEDIATELY BEFORE PLACING CONCRETE, CLEAN FORMS AND REINFORCEMENT OF FOREIGN MATTER.
5. DURING PERIODS OF COLD WEATHER, PROTECTION SHALL BE PROVIDED IN ACCORDANCE WITH CSA A23.1-14, 7.1.2.
6. PROTECT FRESHLY DEPOSITED CONCRETE FROM FREEZING, PREMATURE DRYING AND EXTREMES OF TEMPERATURE.
7. PERFORM CURING OF CONCRETE IN ACCORDANCE WITH CSA A23.1-14, TABLE 19.
8. PERFORM FORMING AND FINISHING OPERATIONS SO THAT COMPLETED WORK WILL BE WITHIN TOLERANCE LIMITS SET OUT IN CSA A23.1.

**C. REINFORCING STEEL IN CONCRETE**

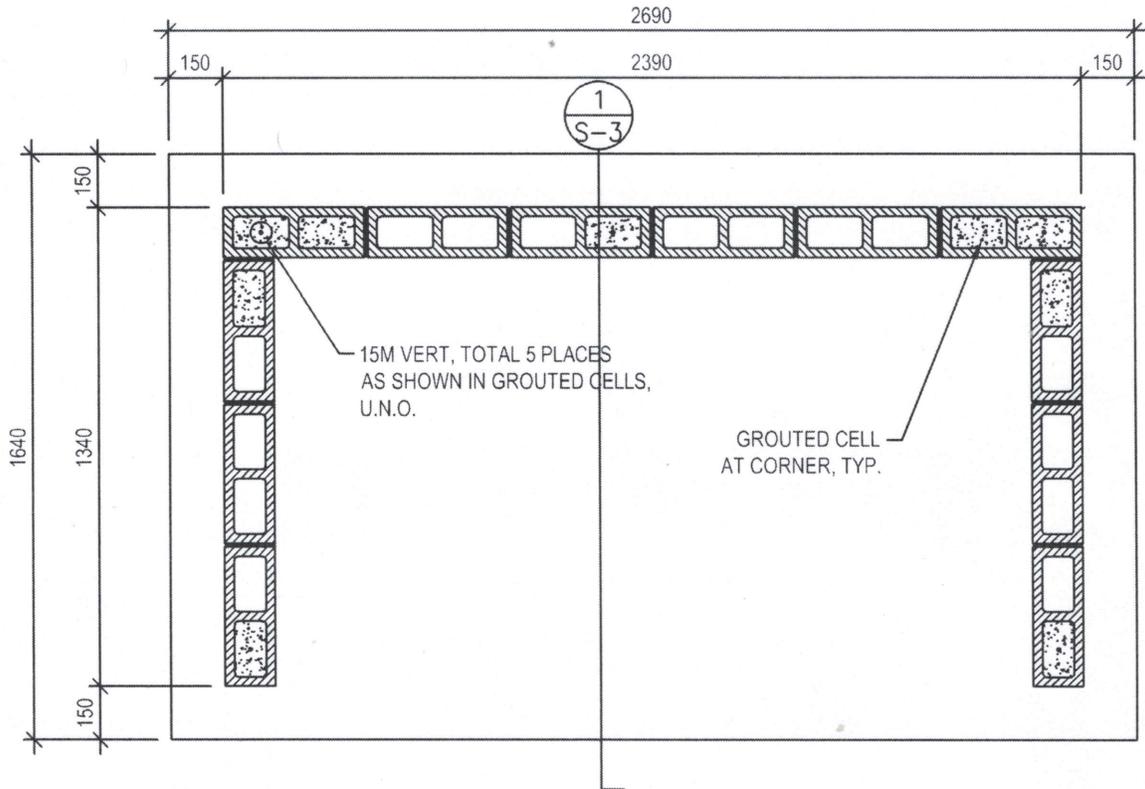
1. REINFORCING STEEL: DEFORMED STEEL TO CSA G30.18, GRADE 400.
2. PLACE REINFORCEMENT IN ACCORDANCE WITH CSA-A23.1-14, CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
3. TIE ALL REINFORCEMENT SECURELY IN PLACE PRIOR TO CONCRETING.
4. USE ONLY PLASTIC CHAIRS OR SIMILAR NON-CORROSIVE CHAIRS TO SUPPORT REINFORCEMENT IN EXPOSED CONCRETE SURFACE.

**D. REINFORCED CONCRETE MASONRY**

1. CONCRETE MASONRY UNITS (CMU): TO CSA A165.1-14, CLASSIFICATION H/15/A/M.
2. GROUT: TO CSA A179-14, WITH MINIMUM COMPRESSIVE STRENGTH OF 20 MPA AT 28 DAYS BY CYLINDER TEST UNDER THE PROPERTY SPECIFICATION AND WITH MAXIMUM AGGREGATE SIZE OF 10 MM. SLUMP BETWEEN 200 MM AND 250 MM.
3. MORTAR: TO CSA A179-14, TYPE S.
4. REINFORCING STEEL: DEFORMED STEEL TO CSA G30.18, GRADE 400.
5. PROVIDE 9 GAUGE GALVANIZED LADDER TYPE JOINT REINFORCEMENT WITH SIDE AND CROSS WIRES CONTACT WELDED PLACED AT 400 MM O/C, UNLESS NOTED OTHERWISE (EVERY 2ND COURSE).
6. CELLS TO BE REINFORCED SHALL BE KEPT CLEAN OF MORTAR.
7. MASONRY WORK IN COLD WEATHER SHALL CONFORM TO THE REQUIREMENTS OF CSA-S304. IF APPLYING HEAT, AVOID EXCESSIVE MOISTURE LOSS.



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			TITLE: GAS METRE ENCLOSURE STRUCTURAL NOTES	DESIGN BY: KY DRAWN BY: KY CHECKED BY: MN SCALE: 1:1	
1	ISSUED FOR REVIEW	02/08/19		PROJECT NO.:	DRAWING NO.:
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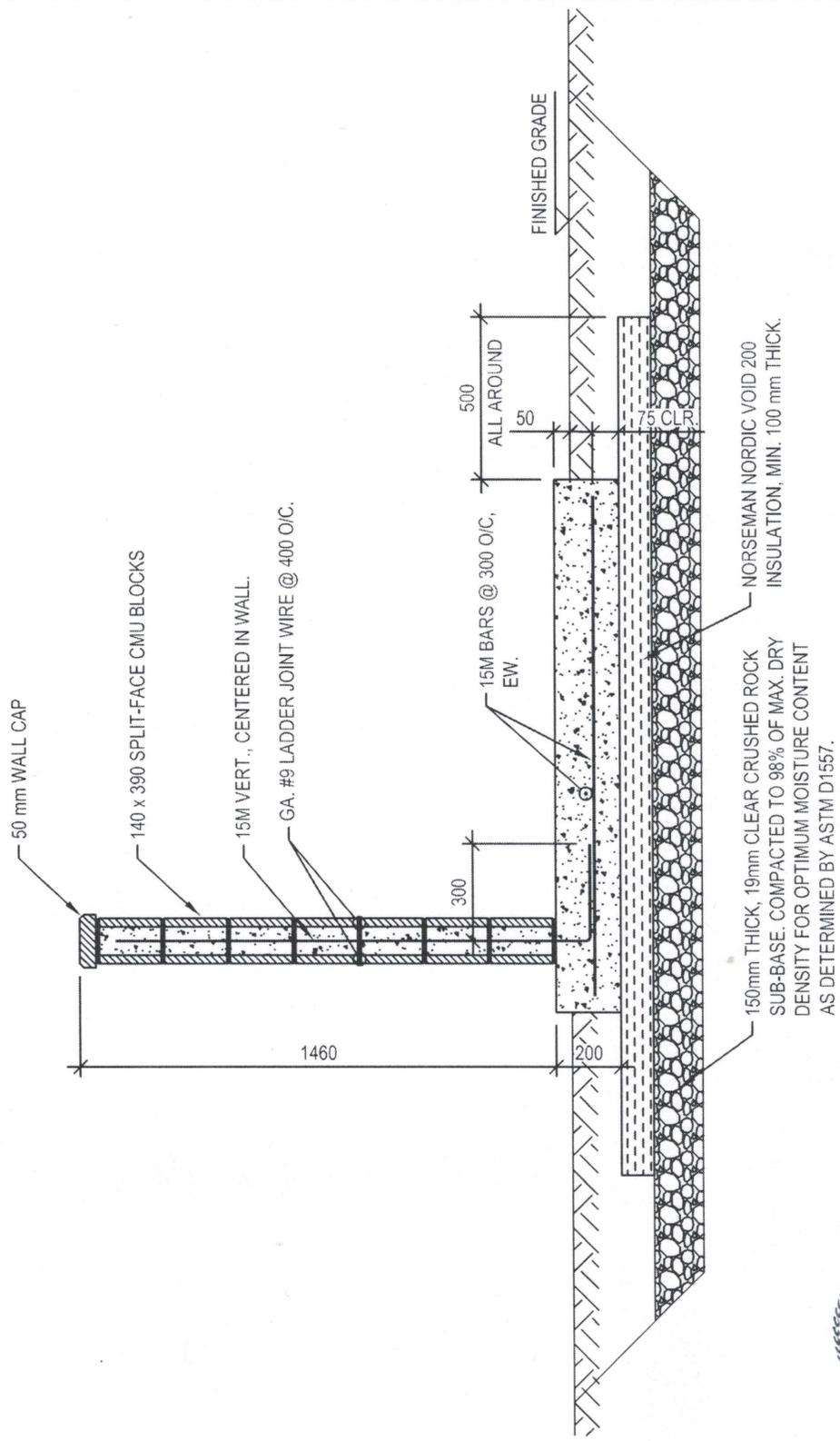


1 GAS METRE ENCLOSURE (PLAN)  
M06 1:20



12/16/2019

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1 SECTION  
S-2 1:20

PROFESSIONAL  
PROVINCE OF  
H. Y. YIP  
# 28911  
COLUMBIA  
ENGINEER  
12/16/2019

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			TITLE: GAS METRE ENCLOSURE SECTION VIEW	DESIGN BY: KY DRAWN BY: KY CHECKED BY: MN SCALE: AS SHOWN	
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