KNEE WALL DETAIL NOTES

GENERAL NOTES:
1. THE DESIGN AND CONSTRUCTION OF ALL WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST EDITIONS OF PART 9 OF THE NATIONAL BUILDING CODE, THE ONTARIO BUILDING CODE, LOCAL REGULATIONS AND BYLAWS AND THE OCCUPATIONAL HEALTH AND SAFETY ACT. THIS DESIGN APPLIES TO RESIDENTIAL BUILDINGS ONLY.
2. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND MEASUREMENTS AT THE SITE AND REPORT TO THE ENGINEER ANY DISCREPANCIES OR UNSATISFACTORY CONDITIONS WHICH MAY ADVERSELY AFFECT THE PROPER COMPLETION OF THE PROJECT BEFORE PROCEEDING WITH THE WORK.
3. AN AUTHORIZED AMVIC WALL TRAINED INSTALLER SHALL BE CONTACTED BY THE CONTRACTOR FOR INSPECTIONS OF THE FOUNDATION, REINFORCING STEEL PLACEMENT, ONLY IF REQUIRED BY THE BUILDING OFFICIAL.

DESIGN PARAMETERS:
1. DESIGN LOADS ARE UNFACTORED UNLESS NOTED OTHERWISE:
   - SOIL PRESSURE (LIVE) = 480 kg/m² EQUIVALENT FLUID DENSITY
     DRANGED EARTH IN ACCORDANCE WITH OEC
   - AREA SURCHARGE (LIVE) = 2.4 kPa (50 psf) Kα = 0.33
2. MAX 12.2m (40°-7°) ROOF SPAN WITH 4.0 kPa SNOW LOAD
   MAX 7.32m (24°-7°) FLOOR SPAN WITH 1.9 kPa LIVE LOAD
3. FOUNDATIONS TO BEAR DIRECTLY ON MATERIAL SUITABLE FOR 75 kPa (1,566 psf) BEARING PRESSURE, UNLESS NOTED.

CONCRETE AND REINFORCING STEEL:
1. CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF CSA. A23.1,2&3 FOR MATERIALS AND WORKMANSHIP.
2. USE MIN. GRADE 400(60 kN/mm^2) YIELD STRENGTH DEFORMED REBAR PLACED IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE.
3. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE SHALL BE:
   - 20 MPA (2,900 psi) FOR FOOTINGS
   - 20 MPA (2,900 psi) FOR WALLS
4. ALL CONCRETE SHALL BE TESTED BY A CSA CERTIFIED CONCRETE TESTING LABORATORY.
5. USE HIGH FREQUENCY VIBRATION TO PLACE ALL CONCRETE.
6. ALL CONCRETE SHALL BE KEPT MOIST DURING THE FIRST THREE DAYS OF CURING.
7. TAKE ADEQUATE MEASURES TO PROTECT CONCRETE FROM EXPOSURE TO FREEZING TEMPERATURES AT LEAST 7 DAYS AFTER CONCRETE PLACEMENT. COLD WEATHER PROTECTION IS REQUIRED FOR ALL CONCRETE PLACED WHERE IT IS FORECASTED THAT THE TEMPERATURE WILL DROP BELOW 5°C WITHIN 24 HOURS OF PLACEMENT. PROTECTION PROVIDED, INCLUDING INSULATED TARPS, POLY COVERED STRAW, SUPPLEMENTAL HEAT AND/OR CHEMICAL ADMIXTURES, IS TO BE SUFFICIENT TO MAINTAIN A MINIMUM CURING TEMPERATURE OF 10°C FOR 3 DAYS.
8. MINIMUM BAR LAP LENGTH SHALL BE:
   - 350 mm (14 inches) FOR 10W (No. 4) BARS

FOOTINGS:
1. FOOTINGS TO BEAR DIRECTLY ON UNDISTURBED NATIVE SOILS OR APPROVED ENGINEERED FILL SUITABLE FOR MINIMUM DESIGN BEARING PRESSURES.
2. SOFT AREAS UNCOVERED DURING EXCAVATION SHALL BE SUB-EXCAVATED TO SOUND MATERIAL AND FILLED WITH CLEAN, FREE DRAINING GRANULAR SOIL COMPACTED TO 100% STANDARD PROCTOR DRY DENSITY (SPDD).
3. DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 (35 DEGREES) IN THE LINE OF SLOPE BETWEEN ADJACENT FOOTING EXCAVATIONS OR ALONG STEPPED FOOTINGS. USE STEPS NOT EXCEEDING 600 mm (24 INCHES) IN HEIGHT AND NOT LESS THAN 600 mm (24 INCHES) IN LENGTH, IN ACCORDANCE WITH OBC 9.15.3.9
4. PROTECT SOIL FROM FREEZING ADJACENT TO AND BELOW FOOTINGS.

NOTE: ALL STAMPS APPLY TO DRAWINGS
AMV-KNW-001, AMV-KNW-002, AND AMV-KNW-003.
ONTARIO STAMP IS ON ALL DETAILS.
NOTES:

1. WALL REINFORCING NOT REQUIRED WHEN USING 8" FORMS.
2. WALL REINFORCING NOT REQUIRED FOR 6" FORMS WHERE THE BACKFILL HEIGHT ABOVE BASEMENT FLOOR DOES NOT EXCEED 2'-7".
3. FOOTING REINFORCEMENT AND DOWELS ARE REQUIRED FOR ALL CASES.
4. THIS DETAIL IS APPLICABLE TO BOTH AMVIC ICF R22 AND AMVIC ICF R30.
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