

## STRUCTURAL GENERAL NOTES:

GENERAL SPECIFICATIONS, NATIONAL BUILDING CODE OF CANADA, 2015.

## CAST-IN-PLACE CONCRETE

1. GROUT TO BE PREMIXED NON-SHRINK NON-METALLIC GROUT WITH MINIMUM STRENGTH AT 3 DAYS OF 20MPa AND AT 28 DAYS OF 50 MPa.

2. CONCRETE TO BE IN ACCORDANCE WITH THE FOLLOWING TABLE:

LOCATION	STRENGTH f <sub>c</sub> (MPa)	CEMENT SYMBOL	CLASS OF EXPOSURE	AGGREG. MAX. (mm)	SLUMP mm	TOTAL AIR %
EXTERIOR SLABS	25	GU	F-2/C-1	20	50 to 80	5 to 10
PILES	32	HS	S-2	20	50 to 100	4 to 7

## CONCRETE TESTING

- CONCRETE TESTING SHALL BE CARRIED OUT BY AN INDEPENDENT TESTING AGENCY, CERTIFIED BY CSA IN ACCORDANCE WITH THE REQUIREMENTS OF CSA A283.
- CONCRETE TESTING SHALL BE PAID FOR BY CONTRACTOR.
- CONCRETE TESTING SHALL CONSIST OF THREE (3) TEST CYLINDERS TAKEN FOR EVERY 50 CUBIC METERS OR LESS OF EACH CLASS OF CONCRETE PLACED EACH DAY. ONE (1) CYLINDER TO BE TESTED AT 7 DAYS, THE REMAINING TWO (2) CYLINDERS TO BE TESTED AT 28 DAYS.
- ONE (1) ADDITIONAL TEST CYLINDER SHALL BE TAKEN DURING COLD WEATHER CONCRETING, AND BE CURED ON JOBSITE UNDER SAME CONDITIONS OF CONCRETE. IT REPRESENTS.
- ONE (1) SLUMP TEST AND ONE (1) AIR CONTENT TEST SHALL BE TAKEN FOR EACH SET OF TEST CYLINDERS TAKEN.

## REINFORCING STEEL

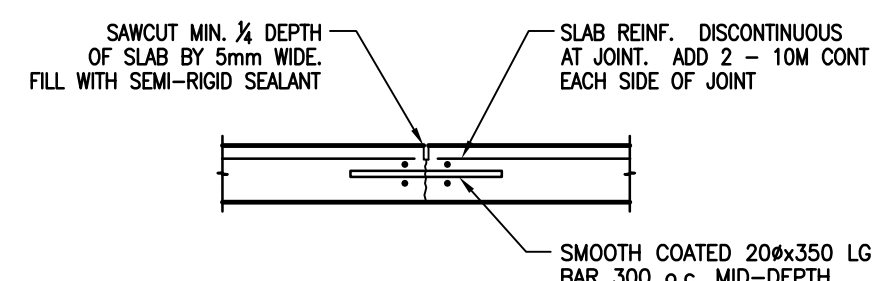
- TO CSA STANDARD G.30.18, GRADE 400, PLAIN FINISH FOR ALL BARS UNLESS NOTED OTHERWISE. MINIMUM SPLICE FOR 10M BARS TO BE 450mm. MINIMUM LAP SPLICE FOR ALL OTHER BARS TO BE 36 BAR DIAMETER OR 700mm, WHICHEVER IS GREATER.

## SLAB

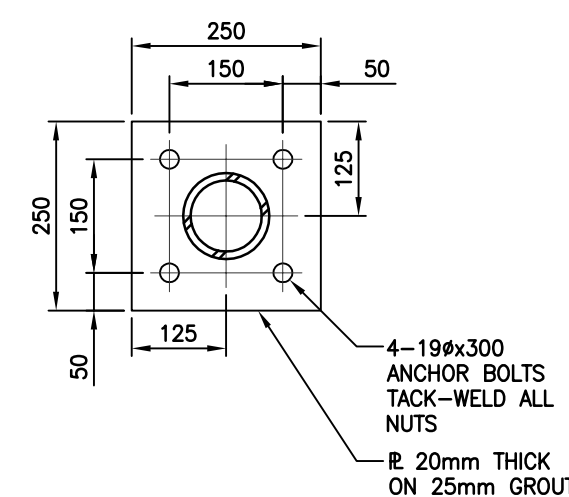
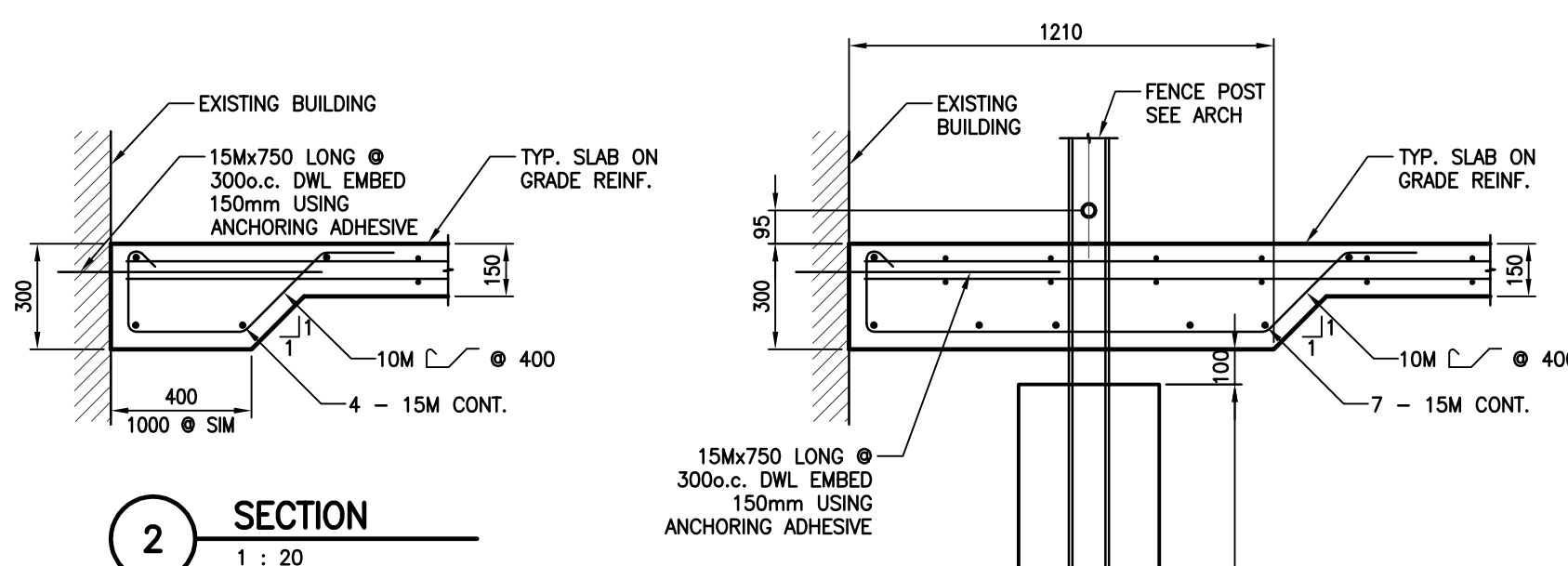
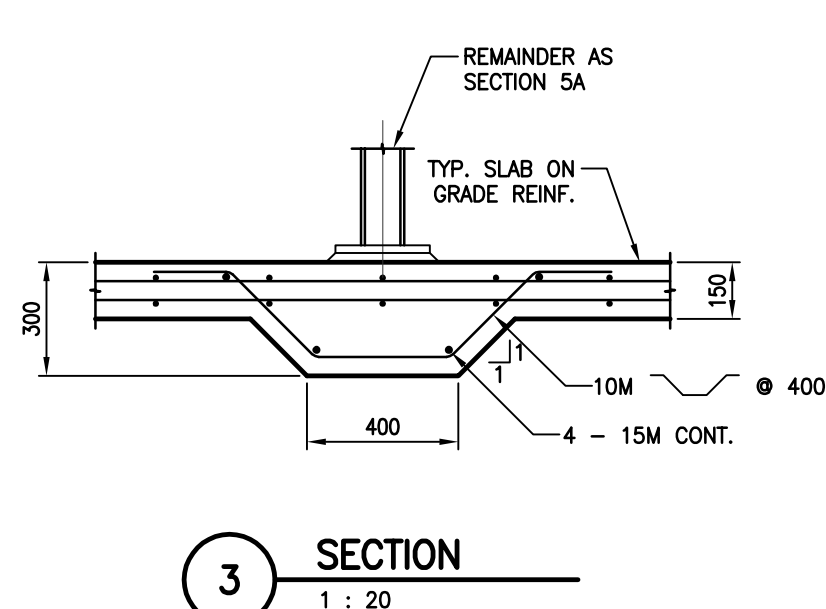
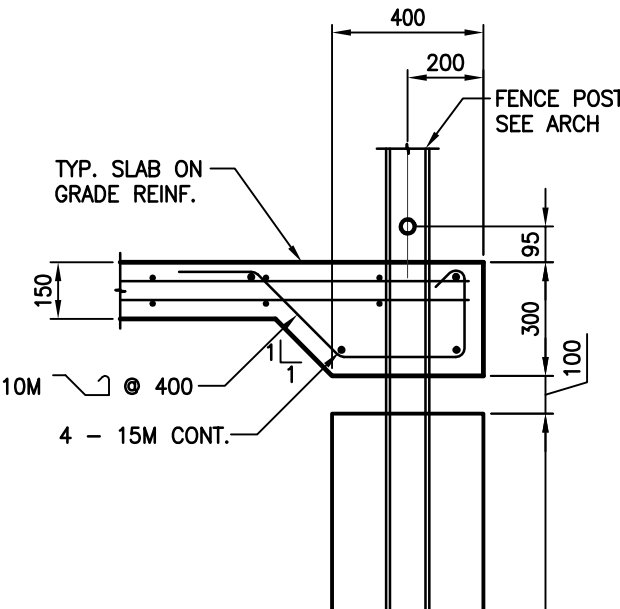
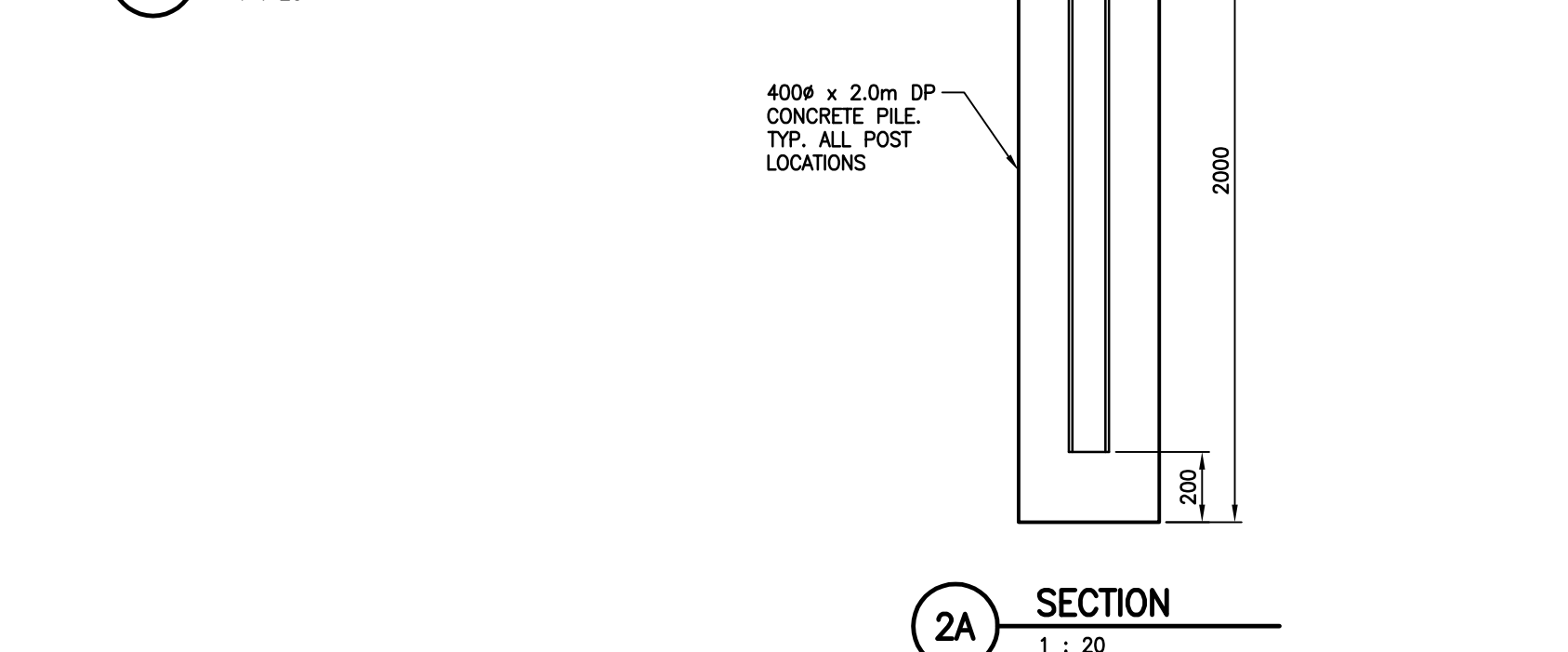
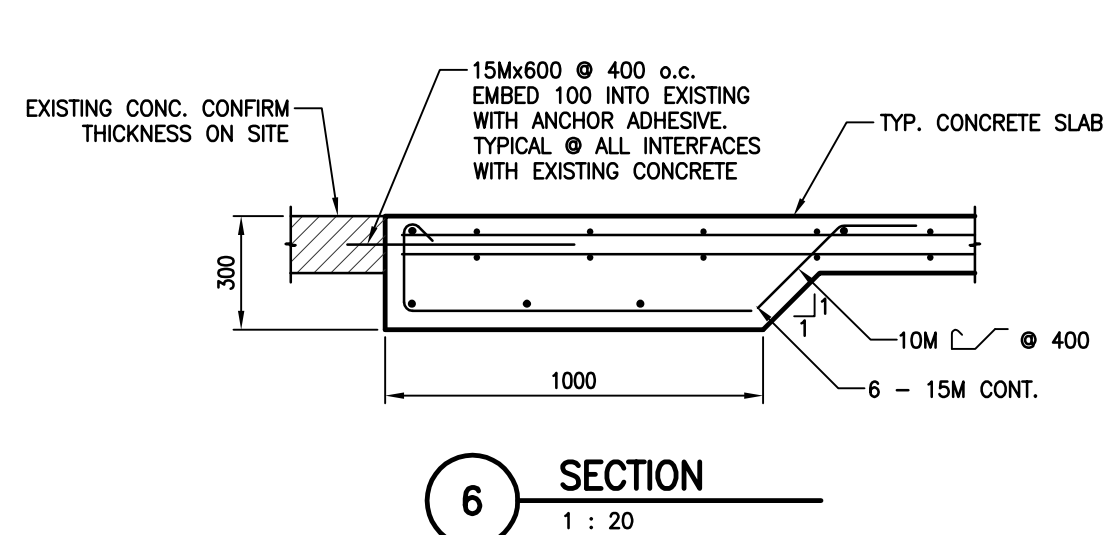
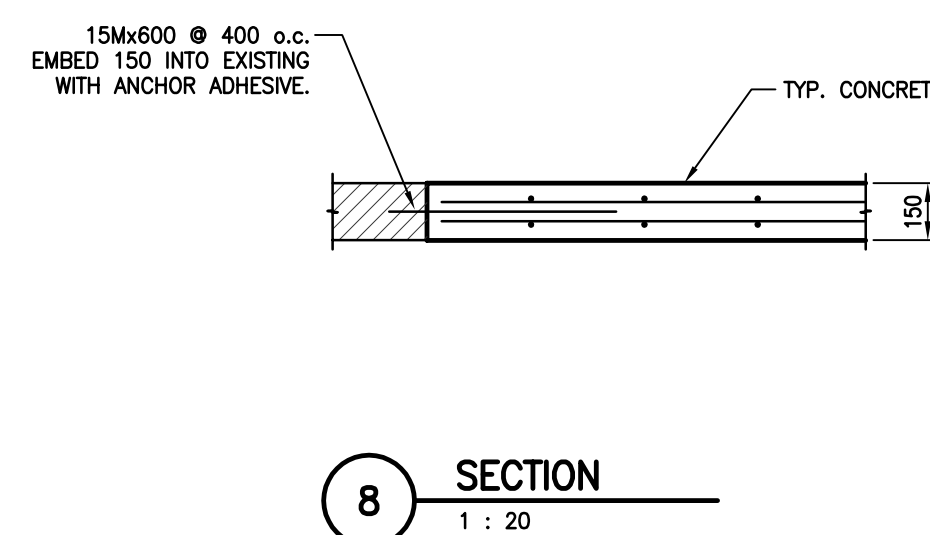
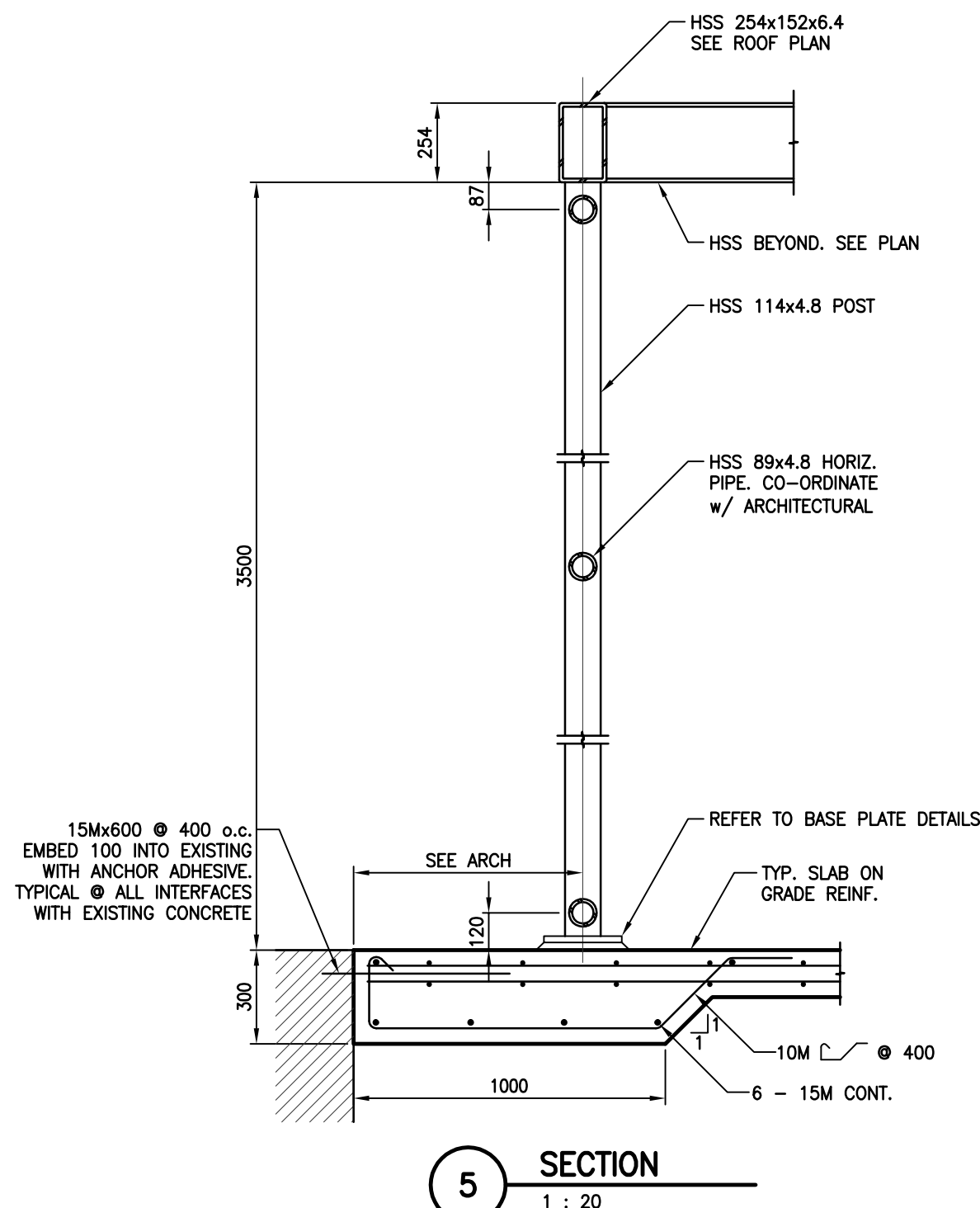
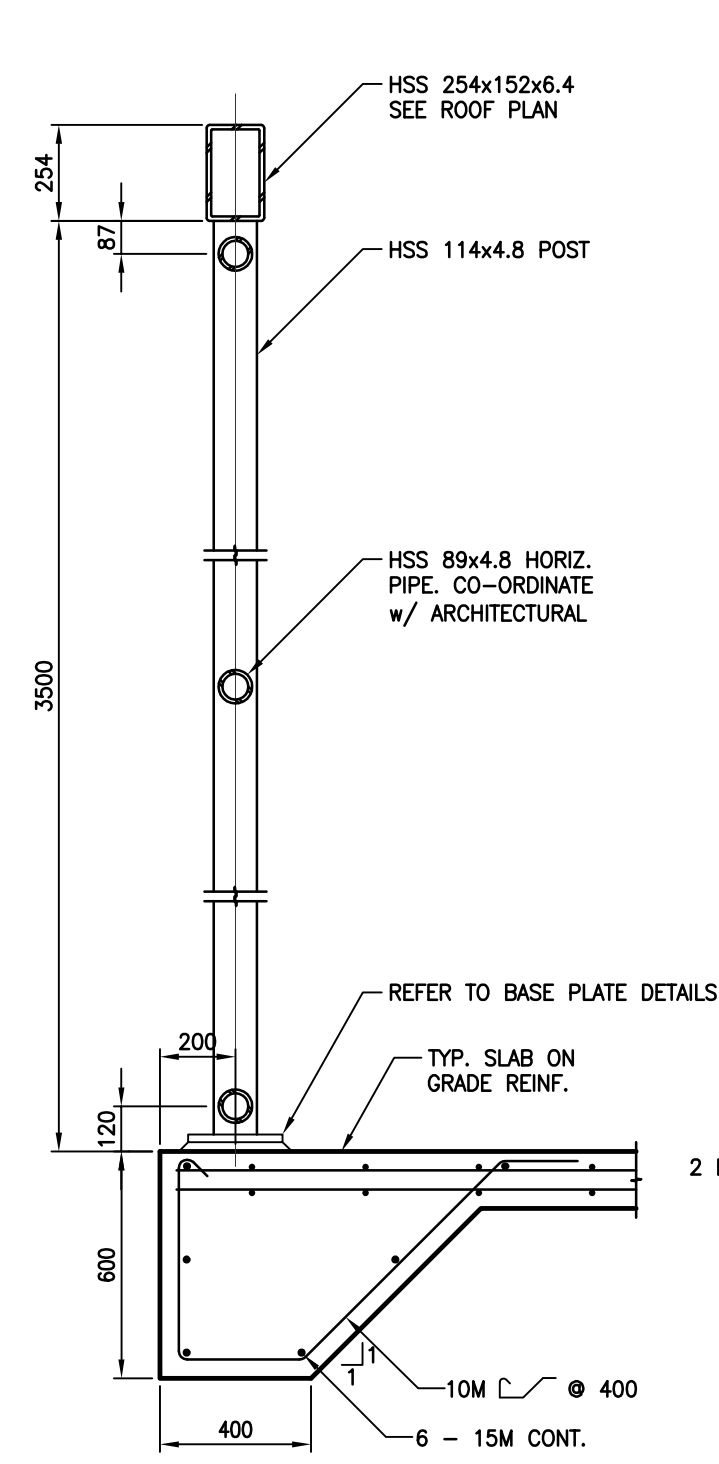
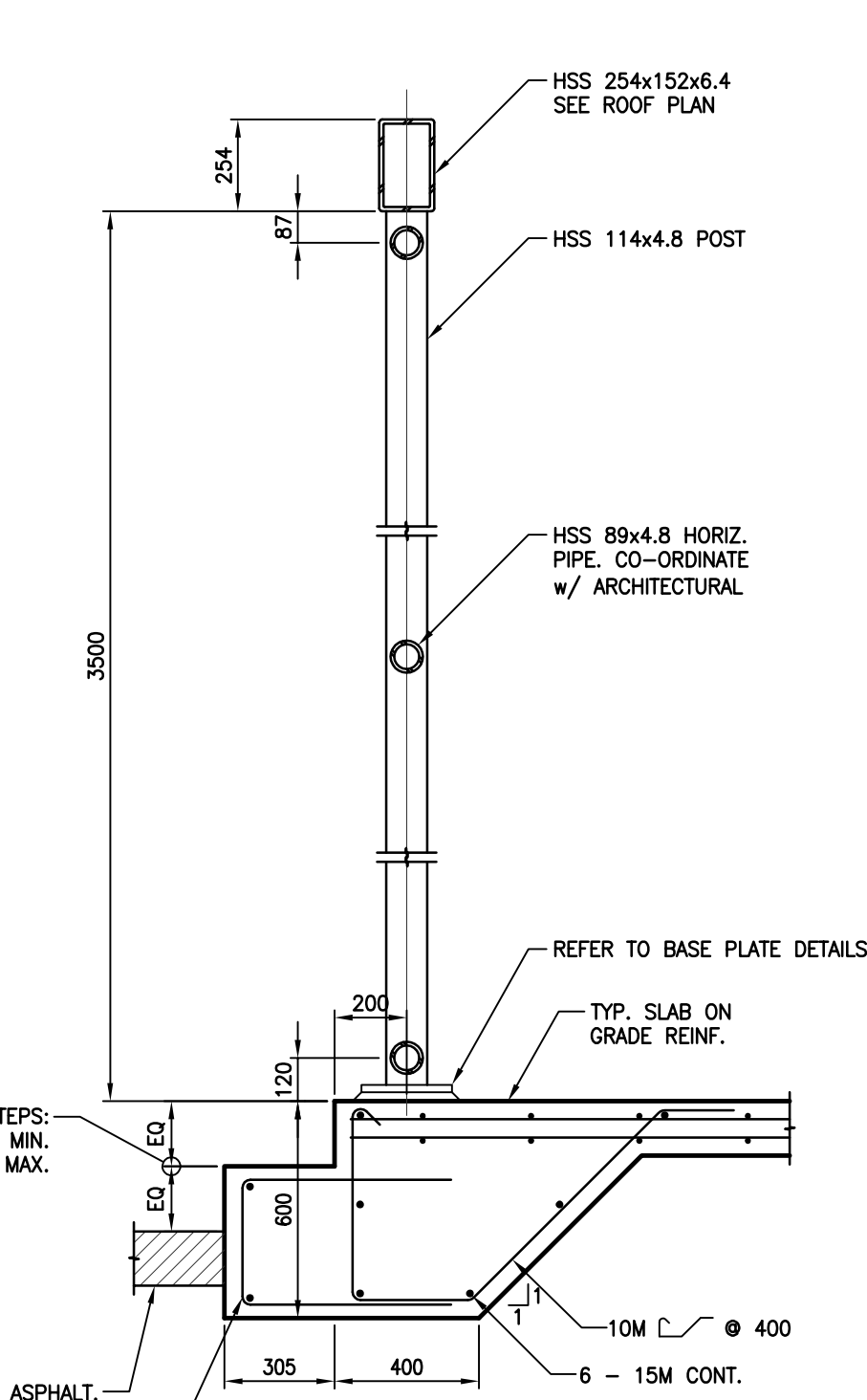
- REMOVE ALL ORGANIC AND DELETERIOUS MATERIAL.
- PROOFROLL SUBGRADE TO DELINEATE ANY SOFT AREAS. ANY SOFT AREAS TO BE EXCAVATED AND RECOMPACTED.
- BENEATH THE SLAB PROVIDE MINIMUM 500mm GRANULAR COMPACTED FILL TO 98% OF STANDARD PROCTOR DENSITY.
- FILL TO BE PLACED IN 150mm LIFTS, EACH LIFT BEING COMPACTED TO 98% OF STANDARD PROCTOR DENSITY BEFORE PLACEMENT OF NEXT LIFT.
- ALL EXTERIOR CONCRETE SLABS TO BE FINISHED WITH LIGHT BROOM FINISH.
- MAINTAIN SURFACE FLATNESS OF SLABS WITH MAXIMUM VARIATION OF 5mm IN 3 METRES, AND ABSOLUTE MAXIMUM OF 6mm. SURFACE FLATNESS TO BE MEASURED BY THE STRAIGHTEDGE METHOD.
- ALL SLABS SHALL BE KEPT CONTINUOUSLY MOIST FOR A MINIMUM OF SEVEN CONSECUTIVE DAYS AFTER PLACEMENT OF THE CONCRETE. THE WATER FOR CURING SHALL BE CLEAN AND FREE FROM ANY MATERIALS THAT WILL CAUSE STAINING OR DISCOLORATION OF THE CONCRETE. FOLLOWING THE CURING PERIOD, THE SLABS SHALL BE THOROUGHLY RINSED.
- SAW CUT SLAB AS LOCATED ON DRAWINGS TO DEPTH OF 30 MM WITHIN 24 HOURS OF CASTING.
- DO NOT CAST SLAB ON DESICCATED, FROZEN OR WET SOIL OR BASE.
- SAW CUT SLAB AS LOCATED ON DRAWINGS TO DEPTH OF 30mm WITHIN 24 HOURS OF CASTING. CAULK WITH JOINT SEALANT.
- REFER TO ARCHITECTURAL AND CIVIL FOR SLAB SLOPES.

## STRUCTURAL STEEL

- STRUCTURAL SIZE AND SHAPES, BAR SIZE AND SHAPE AND WELDED SHAPES TO CSA G40.21M.
- 350 MPa WELDABLE GRADE FOR W SHAPES, 300 MPa FOR ALL OTHER SHAPES.
- HOLLOW SECTIONS TO CSA G40.21M, 350 MPa WELDABLE GRADE, CLASS C.
- PLATES AND BARS TO CSA G40.21M, 300 MPa WELDABLE GRADE.
- WELDING MATERIAL TO CSA W48.
- PAINT FOR PRIMER AS PER CSB 1-SP-404, OR CSB/SPMA STANDARD 1-730.
- AFTER ERECTION, PRIME ALL WELDS, ABRASIONS, BOLTED CONNECTIONS AND ALL OTHER SURFACES NOT SHOP PRIMED, EXCEPT SURFACES TO BE IN CONTACT WITH CONCRETE.
- FABRICATION & ERECTION TO CSA S16 AND CSC STANDARD CODE OF PRACTICE.
- WELDING TO CSA W59.



TYPICAL SAWCUT JOINT

C1 BASE PLATE DETAIL  
1 : 101 PARTIAL FLOOR PLAN  
1 : 100  
NOTE:  
1. SEE ARCH FOR FLOOR/SLAB SLOPES2 SECTION  
1 : 203 SECTION  
1 : 204 SECTION  
1 : 202A SECTION  
1 : 206 SECTION  
1 : 208 SECTION  
1 : 205 SECTION  
1 : 205A SECTION  
1 : 205B SECTION  
1 : 20

PWGSC WESTERN REGION

CSC-RHQ REGIONAL PSYCHIATRIC CENTRE  
2520 CENTRAL AVENUE NORTH  
SASKATOON, SASKATCHEWANCHURCHILL UNIT  
REDEVELOPMENTDesigned by  
M.D.B.Drawn by  
J.W.C./A.M.C.Checked by  
M.D.B.Project Manager  
PWGSC

STRUCTURAL

FLOOR PLAN  
SECTIONS AND DETAILSProject no./No. du projet  
R.07945.01

S-1

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