#### GENERAL

- STRUCTURAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION, CIVIL AND ENGINEERING SERVICES DOCUMENTS.
- Ņ UNLESS OTHERWISE NOTED, ALL LEVELS ARE METRES, AND ALL DIMENSIONS
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING FROM DRAWINGS.
- ALL DISCREPANCIES SHALL BE REFERRED TO THE DESIGN ENGINEER FOR RESOLUTION BEFORE PROCEEDING WITH THE WORK.
- ÖI THE STABILITY OF THE STRUCTURE DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE CURRENT NEW ZEALAND STANDARDS EXCEPT WHERE VARIED BY THE SPECIFICATION AND/OR DRAWINGS.
- WHERE PROPRIETRY PRODUCTS ARE SPECIFIED IN THE DOCUMENTS THE CONTRACTOR MUST SUBMIT ALL ALTERNATIVE PRODUCTS FOR APPROVAL IF WISHING TO CHANGE.
- ω CONTRACTOR TO CHECK LOCATION OF EXISTING SERVICES PRIOR TO ANY EXCAVATION WORK. NOTIFY ENGINEER OF ANY CONFLICTS AND AWAIT APPROVAL BEFORE PROCEEDING.
- 9 OTHERWISE). D&E INDICATES DRILL & EPOXY WITH EPCON C6 (UNLESS NOTED

#### CONCRETE

MINIMUM CONCRETE STRENGTHS SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON DRAWINGS.

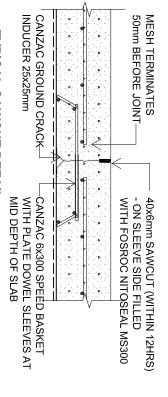
PRECAST	FLOOR	FOUNDATION	ELEMENT
30	30	30	MPa

- Ŋ SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF APPLIED FINISHES.
- ယ CONSTRUCTION JOINTS WHERE NOT SHOWN ON DRAWINGS SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
- NO PENETRATIONS, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN ON CONCRETE MEMBERS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL PRECAST UNITS FOR APPROVAL PRIOR TO COMMENCEMENT OF WORK.
- 0 TOLERANCES AND FINISHES TO BE AS PER SPECIFICATION.
- 7 SCHEDULES OF SURFACE FINISHES: NZS3114:1987

ELEMENT	<u> </u>	FINISH
PRECAST ELEMENTS NOT EXPOSED		F4
PRECAST ELEMENTS EXPOSED		F5
FORMED CONCRETE SURFACES EXPOSED	OSED	F5
FORMED CONCRETE SURFACES NOT EXPOSED	EXPOSED	F4
UNFORMED CONCRETE SURFACES		U3
CONCEALED FOUNDATIONS (FORMED)	D)	F1
CONCEALED FOUNDATIONS (UNFORMED)	MED)	U1

10mm EXPAN	50mm BEFORE JOINT
0mm EXPANSION FOAM	RE JOINT
CANZAC 6x100x150 SPEED PLATES AT 450mm CRS	NITOSEAL MS300

# TYPICAL CONTROL JOINT DETAIL



## TYPICAL SAWCUT DETAIL

## PRECAST WALLS

PROP WALLS FULLY DURING CONSTRUCTION UNTIL FOUNDATIONS REACH FULL STRENGTH.

## REINFORCEMENT

REINFORCING DESIGNATION AS FOLLOWS:

# NOTE: DH BARS ARE NOT TO BE REBENT

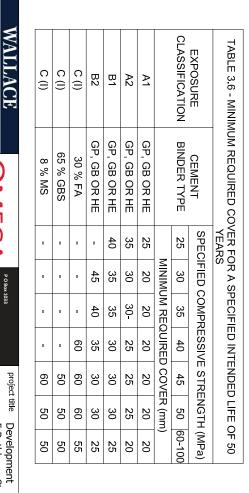
RB	M	DH	D	RH	R	SYMBOL	
DEFORMED REIDBAR GRADE 500 MPa	MESH TO NZS 3422	DEFORMED BARS GRADE 500 TO AS/NZS 4671 (500 MPa)	DEFORMED BARS GRADE 300 TO AS/NZS 4671 (300 MPa)	PLAIN BARS GRADE 500 TO AS/NZS 4671 (500 MPa)	PLAIN BARS GRADE 300 TO AS/NZS 4671 (300 MPa)	ТҮРЕ	

CLEAR COVER TO ALL REINFORCEMENT, INCLUDING STIRRUPS, TIES ETC SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE ON THE DRAWINGS AND SPECIFICATION.

### NZS 3101:2006

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EXPOSURE CLASSIFICATION (TABLE 3.1) = B2



FOR ZONE C THE TOTAL BINDER CONTENT SHALL BE EQUAL TO OR GREATER THAN  $350 {\rm kg/m^3}$  AND WATER TO BINDER RATIO SHALL NOT EXCEED 0.45 THE MINIMUM COVER FOR THE C ZONE SHALL BE 50mm

# 3.11.3.3 CASTING AGAINST GROUND:

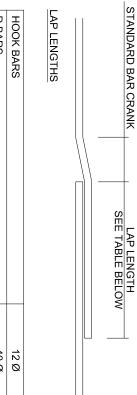
WHERE CONCRETE IS CAST ON OR AGAINST GROUND AND COMPACTED IN ACCORDANCE WITH NZS 3109, THE MINIMUM COVER FOR A SURFACE IN CONTACT WITH THE GROUND SHALL BE 75MM, OR 50MM IF USING A DAMP-PROOF MEMBRANE BETWEEN THE GROUND AND THE CONCRETE TO

SPLICE LAP LENGTHS REINFORCEMENT LAPS IN CONCRETE TO COMPLY WITH THE TABLE BELOW: ON THE STRUCTURAL DRAWINGS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER. BE CAST.

NO REINFORCEMENT SPLICES SHALL BE MADE OTHER THAN THOSE SHOWN FOR DEFORMED BARS (IN MM) NZS3101:2006 8.6.3 (EQN

150

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125

HOOK BARS	12 Ø
D BARS	40 Ø
DH BARS	50 Ø

100

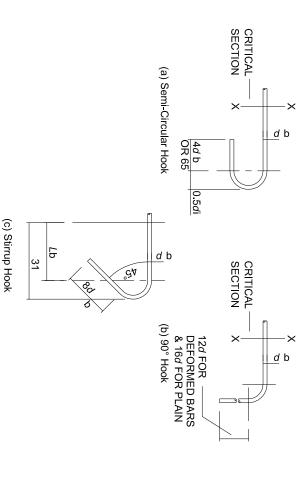
THE DEVELOPMENT OF PLAIN BARS SHALL RELY ON HOOKS.

EPOXY GROUTING OF REINFORCING BARS INTO CONCRETE: HOLES FOR VERTICAL BARS SHALL BE VERTICAL. HOLES FOR HORIZONTAL STARTERS SHALL SLOPE DOWN AT 15 DEGREES.

75

- S WELDING OF REINFORCEMENT IS NOT PERMITTED.
- CONCRETE POURING. TOP AND BOTTOM REI INFORCEMENT IN SLABS SHALL BE ADEQUATELY
- STANDARD HOOKS AND BENDS. NZS3101.8.6.

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DEVELOPMENT

<u>)MEGA</u>

drawing title

project title