

GENERAL NOTES

A. IN THE INTERPRETATION OF THESE DRAWINGS, INDICATED DIMENSIONS SHALL GOVERN AND DISTANCES OR SIZES SHALL NOT BE SCALED FOR CONSTRUCTION PURPOSES.

B. THE CONTRACTOR SHALL COORDINATE WITH THE AR, SE, EE AND OTHER UTILITY AND EQUIPMENT PLANS FOR THE EXACT SIZE, NUMBER AND LOCATIONS OF ALL SLEEVES OR OPENINGS THRU FLOOR SLABS, BEAMS AND WALLS.

C. ALL REINFORCED CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL CODE AND THE ACI 318-95 BUILDING CODE.

D. ALL STRUCTURAL STEEL WORK SHALL BE DONE IN ACCORDANCE WITH THE STRUCTURAL CODE AND AISC ASD 1989 IN SO FAR AS THEY DO NOT CONFLICT WITH THE LOCAL BUILDING CODE REQUIREMENTS.

E. ALL SLABS, BEAMS AND OTHER STRUCTURAL ELEMENTS WHICH ARE NOT INDICATED, DETAILED, DESIGNATED OR INADVERTENTLY OMITTED BUT ARE NECESSARY TO BE COORDINATED WITH ARCHITECTURAL AND OTHER ALLIED ENGINEERING PLANS AS WELL AS TO COMPLETE THE STRUCTURAL WORKS IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS SHALL BE BROUGHT UP DURING PRE-BIDS/MEETINGS/NEGOTIATIONS. IT IS UNDERSTOOD THAT THE CONTRACTOR HAS PROVIDED AND INCLUDED ALL THESE ITEMS IN HIS BID.

F. SLAB ON FILL MUST NOT BE PLACED UNLESS FILL HAS BEEN PROPERLY COMPACTED. UNLESS DETAILED OTHERWISE, ALL SLABS ON FILL SHALL BE PROVIDED WITH DAMP PROOF MEMBRANE. BACK FILLING OF ALL EXCAVATED AREAS AND PREPARATION OF LEAN CONCRETE SHALL BE WELL COMPACTED TO AT LEAST 95% OF THE MODIFIED PROCTOR DENSITY BEFORE LAYING 75mm LEAN CONCRETE.

NOTES ON CONCRETE MIXES AND PLACING

A. UNLESS OTHERWISE INDICATED IN PLANS OR NOTED IN THE SPECIFICATIONS THE MINIMUM 28-DAY CYLINDER COMPRESSIVE STRENGTH OF CONCRETE, FC, SHALL BE AS FOLLOWS:

1.) COLUMNS, BEAMS, GIRDERS AND SUSPENDED SLABS, CONC. WALLS 25MPA
FOOTINGS AND SLAB-ON-GRADE.

2.) LEAN CONCRETE 10MPA

B. 1.) CONCRETE SHALL BE DEPOSITED IN ITS FINAL POSITION WITHOUT SEGREGATION, RE-HANDLING OR FLOWING. PLACING SHALL BE DONE PREFERABLY WITH BUGGIES, BUCKETS OR WHEEL BARROWS. NO CHUTES WILL BE ALLOWED EXCEPT TO TRANSFER CONCRETE FROM HOPPERS TO BUGGIES, WHEEL BARROWS OR BUCKETS, IN WHICH CASE, THEY SHALL NOT EXCEED SIX (6) METERS IN AVERAGE LENGTH.

2.) NO DEPOSITING OF CONCRETE SHALL BE ALLOWED WITHOUT THE USE OF VIBRATORS UNLESS AUTHORIZED IN WRITING BY THE DESIGNERS AND ONLY FOR UNUSUAL CONDITIONS WHERE VIBRATION IS EXTREMELY DIFFICULT TO ACCOMPLISH.

C. EACH BATCH OF CONCRETE MIX TIME SHOULD NOT BE LESS THAN 3 MINS.

D. POURING HEIGHT OF CONCRETE SHALL NOT BE MORE THAN 1.5M.

E. CONCRETE SHALL BE CURED FOR NOT LESS 7 DAYS.

F. FOR COLD JOINTS, SIKA LATEX OR EQUIVALENT BONDING AGENT SHOULD BE APPLIED 10 MINS. BEFORE POURING CONCRETE.

G. EXPOSED & EXTERNAL CONCRETE MEMBERS SHOULD BE CASTED WITH SIKA PLASTOCRETE PLUS OR EQUIVALENT WATER PROOFING CHEMICAL.

NOTES ON FOUNDATION

A. FOOTINGS WERE DESIGNED WITH AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 150 KPa. CONTRACTOR SHALL REPORT IN WRITING TO THE STRUCTURAL ENGINEER ACTUAL SOIL CONDITION UNCOVERED AND CONFIRM ACTUAL BEARING CAPACITY OF SOIL BEFORE DEPOSITING CONCRETE.

B. NO FOOTING SHALL REST ON UNCOMPACTED FILL.

C. MINIMUM CONCRETE PROTECTION FOR REINFORCEMENT SHALL BE 50mm CLEAR FOR CONCRETE DEPOSITED AGAINST THE GROUND AND 60mm FOR CONCRETE DEPOSITED AGAINST FORMWORK.

D. PROVIDE TEMPORARY REMOVAL OF WATER FROM ANY SOURCE DURING CONSTRUCTION. DEWATERING SHALL BE CAREFULLY AND PROPERLY PERFORMED TO AVOID DISTURBING THE FOUNDATIONS AND SLAB BEARING SURFACES.

E. CONTRACTOR SHALL DESIGN, INSTALL AND MONITOR ALL EXCAVATION RETENTION SYSTEMS AS REQUIRED FOR PROTECTION OF ADJACENT PROPERTIES AND PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO MINIMIZE SETTLEMENT AND PREVENT DAMAGE TO ADJACENT EXISTING OR NEW CONSTRUCTION.

F. IN CASES WHERE REQUIRED FOOTING LEVELS SHOW A HONEYCOMBED STRUCTURE CONTAINING LOOSE MATERIALS, REMOVE LOOSE MATERIALS AND FILL ALL VOIDS WITH A CONCRETE REPAIR MOTAR.

G. REFER TO ARCHITECTURAL, PLUMBING AND OTHER TRADES FOR SUB-SOIL DRAINAGE SYSTEM, MACHINERY, ANCHORS AND OTHER EMBEDDED ITEMS, DEPRESSIONS, FINISHES, DOWELS FOR MASONRY WALLS, CURBS, ETC.

NOTES ON CONCRETE SLABS

A. ALL SLAB REINFORCEMENTS SHALL HAVE A CLEAR DISTANCE OF 25-30mm FROM THE BOTTOM AND FROM THE TOP OF SLABS. (see figure 1).

B. IF SLABS ARE REINFORCED BOTHWAYS, BARS ALONG THE SHORTER SPAN SHALL BE PLACED BELOW THOSE ALONG THE LONG SPAN AT THE CENTER AND OVER THE LONGER SPAN BARS NEAR THE SUPPORTS.

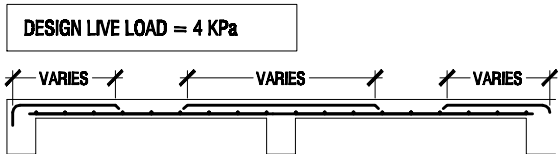


FIGURE 1(STANDARD SLAB DESIGN)

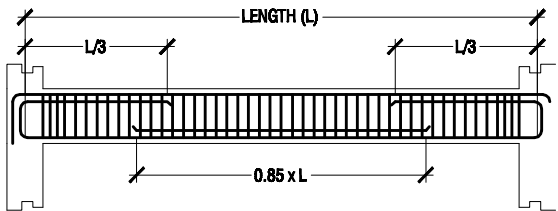
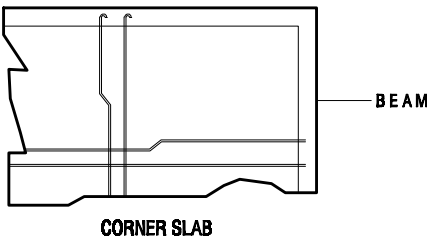


FIGURE 2(STANDARD BEAM DESIGN)



NOTES ON REINFORCING STEEL BARS

A. ALL REINFORCING STEEL BARS SHALL BE NEW BILLET, HOT ROLLED, DEFORMED BARS CONFORMING TO THE SPECIFICATIONS OF PNS 49: 1995 (ASTM 615) GRADE 415.

B. ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS, SECURED IN THE REQUIRED LOCATION IN ACCORDANCE WITH THE PROCEDURES AND REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE BUILDING CODE AND THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES, ACI-315.

C. ALL REINFORCING BARS SHALL BE CLEANED THOROUGHLY OF ALL LOOSE RUST, SOIL OR OTHER MATERIAL IMMEDIATELY PRIOR TO PLACING CONCRETE.

D. REINFORCING BARS SHALL NOT BE WELDED WITHOUT THE STRUCTURAL ENGINEER'S WRITTEN PERMISSION. WELDING OF STIRRUPS, TIES, INSERTS OR OTHER SIMILAR ELEMENTS TO LONGITUDINAL REINFORCEMENT SHALL NOT BE ALLOWED.

E. CLEAR CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS; (MINIMUM)

1.) CONCRETE CAST AGAINST EARTH - 50mm

2.) CONCRETE EXPOSED TO EARTH OR WEATHER
20Ø TO 36Ø BARS - 50mm

16Ø BARS AND SMALLER - 40mm

3.) CONCRETE NOT EXPOSED TO EARTH OR WEATHER
SLABS, WALLS, JOINTS - 25 - 30mm

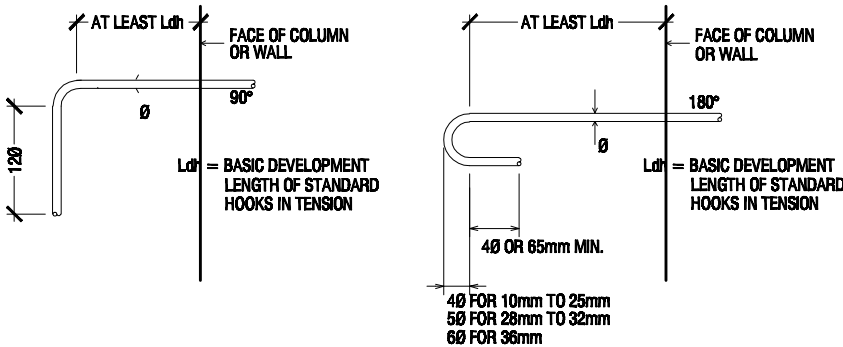
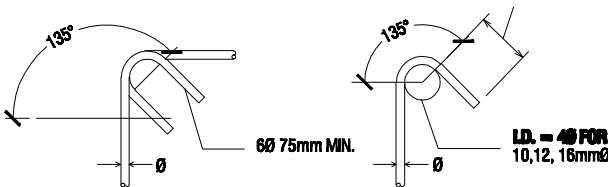
BEAMS - 30 - 35mm

COLUMNS - 35 - 40mm

TABLE A

F. SEE TABLE "A" FOR SCHEDULE OF LAP SPLICES, GIRDERS.

BAR DIAMETER	LAP SPLICES LENGTH (mm)
10	450
12	550
16	750
20	900
25	1300



DETAILS OF STANDARD HOOKS

FIGURE 1

STRUCTURAL NOTES

SCALE 1:100



IF IN DOUBT - ASK - DO NOT SCALE

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**INFRASTRUCTURE
DEVELOPMENT SECTION**

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