

Figure 10 illustrates the reinforcement details for exterior corner and re-entrant corner conditions. The diagrams show the placement of reinforcement bars (30 x BAR #3) and the required lap lengths (750 MIN.) and dimensions (300). The details are provided for both top and bottom reinforcement. A detail view shows the cross-section of the corner, indicating the addition of reinforcement (#200 MAX. SEE BM. SCHEDULE) and the use of closed stirrups. The section is labeled SPANDREL BEAM SECTION.

A. TYPICAL DETAIL OF TOP STEP IN BEAM

$8d$ = TENSION DEVELOPMENT LENGTH

B. TYPICAL DETAIL OF BOTTOM STEP IN BEAM

C. TYPICAL DETAIL OF CRANKED BEAM

FOR DETAILS OF COVER PLATE SEE ARCH. DWGS.
 EXPANSION JOINT WITH COMPRESSIBLE MATERIAL FILLER. SEE PLAN FOR WIDTH.
 40 COVER
 2/3 h SEE NOTE #2
 h = 3/4 SECTION
 AS SPECIFIED BY BEARING MANUF.
 SEE NOTE #1
 ADD 2-10 "T" (#400) WELDED TO TOP OF BEARING PLATE
 SHEAR FRICTION REINF. (SEE NOTE #3) CLOSED TIES #3
 TOP BM. REINFORCING (SEE BM. SCHED.)
 Z
 SEE NOTE #1
 MAIN TENSION REINF. (#400) WELDABLE STEEL (SEE NOTE #3)
 25 CHAMFER
 40 COVER
 MIN. STRAIGHT TENSION DEVELT. LENGTH (TOP BARS)
 50
 1 MAX
 B
 EXP. JOINT
 FOR STRIP SIZE & SPACING SEE BEAM SCHEDULE
 BOTTM. BM. REINF. SEE BM. SCHED.
 HANGER REINF.—CLOSED STRIPS (SEE NOTE #3)
 CORBEL
 SEE SECTION 1 OF BEARING
 COLUMN SEE SCHEDULE

NOTES
 1. PROVIDE GREATER OF THE FOLLOWING:
 A. EXTEND TO CRACK LINE B.B.
 B. MIN. TENSION EMBEDMENT WITH STD. END HOOK C. 300mm
 2. DISTRIBUTE SHEAR FRICTION REINFORCEMENT EQUALLY WITHIN HEIGHT OF 2/3 h.
 3. FOR SIZE AND NUMBERS OF SHEAR FRICTION, MAIN TENSION AND HANGER REINFORCEMENT, SEE RELATED SECTIONS.

[illegible]

10B20/900 LG. DWELLS BEND INTO MIDLANDING TYPE 26

3-10T DWELLS TYPE 26

2-20B CONT.

1-15T&B

2-20T CONT. HI.

3-10T

MIN. 300T WALL IN WALL

POCKET IN WALL

WALL REINF. OMITTED FOR CLARITY

SEE WALL SCHEDULE

SEE PLAN

SEE ARCH. DRAWINGS

SEE PRECAST STAR SHOP DRAWINGS FOR ADDITIONAL REIN. AT LOBBES

SEE PRECAST STAR SHOP DRAWINGS FOR ADDITIONAL REIN. AT LOBBES

TYPICAL MID-LANDING PLAN

AT FLOOR LEVEL

SEALANT - EA. FACE

150 WIDE PVC WATER STOP

COMPRESSIBLE FILLER

INSIDE FACE

OUTSIDE FACE

TYPICAL EXPANSION JOINT IN WALLS

CUT 50% OF HORIZONTAL INSIDE FACE REINFORCING AT EACH CONTROL JOINT LOCATION

FILL REGLET WITH FLEXIBLE SEALANT

PROVIDE REGLET 10mm x 20mm DEEP FOR FULL HEIGHT OF WALL

INSIDE FACE

CONTROL JOINTS AT 4500'C MAX. (CONTRACTORS TO SUBMIT CONTROL JOINT LOCATIONS FOR APPROVAL)

TYPICAL CONTROL JOINT DETAIL IN FOUNDATION WALLS - PLAN DETAIL

SEE WALL SCHEDULE

LEDGE FOR P.C. STAIR
SEE SHOP DWGS.

ADD 2-20 TAB
CONT. U/N ON PLAN

100x150

2-15 CONT.

SEE P.C. STAIR
SHOP DWGS.

100x300 x 900 LG.
DWLS. ALL AROUND

600

200

100 MIN.

PRECAST STAIR

MID-LANDING SLAB

LEDGE FOR P.C. STAIR
SEE SHOP DWGS.

ADD 2-20 TAB
CONT. U/N ON PLAN

100x150

2-15 CONT.

SEE P.C. STAIR
SHOP DWGS.

100 MIN.

200

600

PRECAST STAIR

EDGE OF SLAB: UP FLIGHT

LEDGE FOR P.C. STAIR
SEE SHOP DWGS.

ADD 2-20 TAB
CONT. U/N ON PLAN

100x150

2-15 CONT.

SEE P.C. STAIR
SHOP DWGS.

100 MIN.

200

600

PRECAST STAIR

EDGE OF SLAB: DOWN FLIGHT

ADD 1-15 CONT.
EA. SIDE

PRECAST STAIR

150x300

ADD 2-20
TAB CONT.

450

200

450

SEE P.C. STAIR
SHOP DWGS.

BEARING ON STRUCTURAL SLAB

PRECAST STAIR
1-15 CONT.
EA. SIDE

SEE P.C. STAIR
SHOP DWGS.

150x300

WELDED WIRE FABRIC
WHERE SPECIFIED

ADD 2-15 TAB
CONT.

300

1

2

450

200

450

BEARING ON SLAB ON GRADE

FIN. FLOOR OR LANDING

PC. STAIR

1600

150

1500

300

3-15 T&B

2-15 CONT.

150/50

150/300

SEE PLAN

IN FRAMED SLABS

ADD 2-1# 60 MM. OR 2#800X1500 L.G. ABOVE & BELOW KEY

ADD 10#650 X1000 L.G.

PROVIDE 2-2# 60 MM. OR 2#800X1500 L.G. WHERE THERE ARE NO CONT. TOP BARS

IN BEAMS

DISTANCE BETWEEN CONSTRUCTION JOINTS = 18000 MAX. UNLESS OTHERWISE APPROVED BY THE ENGINEER

TENSION LAP SPlice

P.V.C. WATER BAR IN SUB-GRADE EXTERIOR WALLS OR EXTERIOR P.V.C. WATER BAR AT EXTERIOR FACE

ADD 15#1350 L.G. DOWELS EA. FACE EQUALLY SPACED BETWEEN MAIN HOR. WALL REIN.

ROUGHEN SURFACE OF CONC. AND COAT WITH CEMENT SLURRY BEFORE SECOND CASTING OF CONCRETE

IN WALLS

- CONSTRUCTION JOINT SHALL BE PLACED 12000 MIN. AWAY FROM OPENINGS OR FACE OF SUPPORTING PIER
- WALLS SUPPORTED ON PIERS OR CAISSONS SHALL HAVE CONSTRUCTION JOINT LOCATED AT MIDSPAN, UNLESS OTHERWISE APPROVED BY THE ENGINEER
- PROVIDE TENSION LAP SPlice AS INDICATED AND FOR ALL CONTINUOUS TOP & BOTTOM BARS THROUGH CONSTRUCTION JOINT.

IN SLABS

IN BEAMS

CLOSURE STRIP NOTES:

1. WIDTH OF CLOSURE STRIP SHALL BE EQUAL TO THE LENGTH OF BASIC TENDON LAP SPICE (LAP) OR OF THE LARGEST (D_{LA}) BAR CROSSING THE CLOSURE STRIP PLUS 50mm.
2. PROVIDE COMPRESSION LAP SPICE WHERE INDICATED.
3. ADDITIONAL TOP BARS OF SLAB CLOSURE SHALL BE AS FOLLOWS.
4. CLOSURE STRIP SHALL BE CAST 21 DAYS (MIN.) AFTER THE LATER ADJACENT SLAB IS CAST, UNLESS SPECIFIED OTHERWISE ON THE DRAWING.
5. AFTER CASTING, THE CLOSURE STRIP WORKFORM SHALL NOT BE REMOVED FOR A PERIOD OF 7 DAYS (MIN.) RESHORE IMMEDIATELY AFTER REMOVAL FOR A FURTHER 7 DAYS (MIN.) COLD WEATHER REQUIREMENTS FOR CONCRETE PROTECTION SHALL BE PROVIDED AS REQUIRED.

SLAB THICKNESS

UP TO 230mm
250mm TO 300mm
SLABS THICKER THAN 300mm

ADDITIONAL TOP BARS

10mm#240mm
15m#430mm
AREA OF STEEL SHALL BE EQUAL TO 0.0020 x CONCRETE CROSS SECTION AREA PER METRE WIDTH.

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A circular professional seal for the Province of Ontario. The outer ring contains the text "REGISTERED PROFESSIONAL ENGINEER" at the top and "PROVINCE OF ONTARIO" at the bottom. In the center, the name "P.F. AST" is printed above the number "13015". A handwritten signature, "P.F. AST", is written across the seal, and a diagonal line is drawn through it from the bottom right towards the center.

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