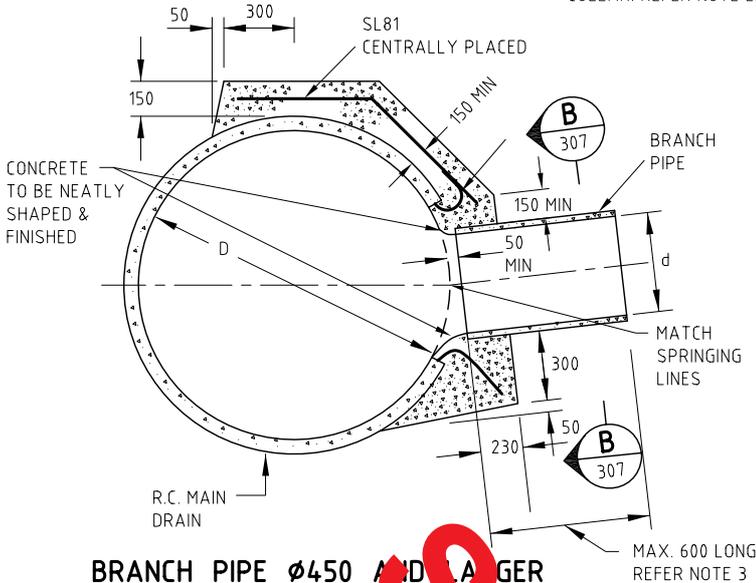
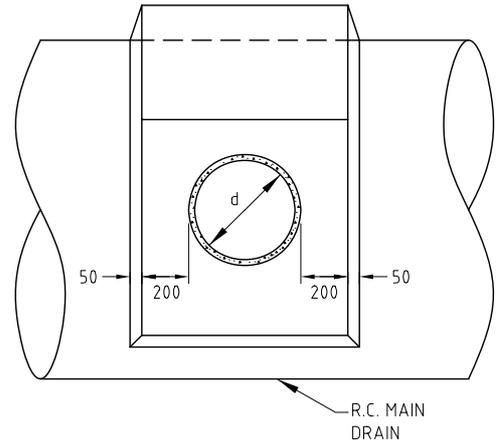


BREAK INTO PIPE FOR CONNECTION.
BEND REINFORCEMENT TO FORM
COLLAR. REFER NOTE 2.

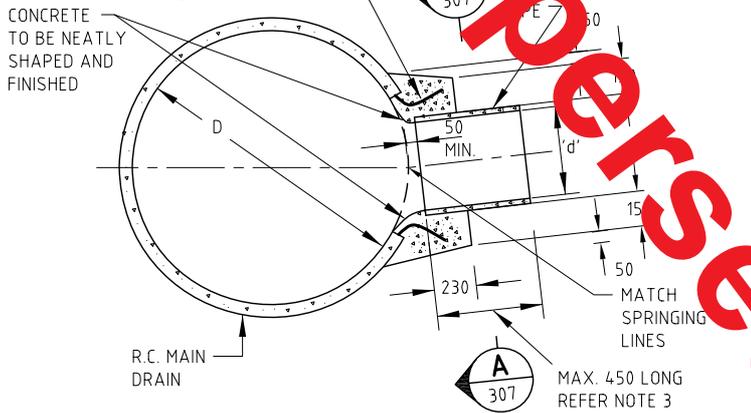


**BRANCH PIPE $\phi 450$ AND LARGER
PROVIDED 'd' IS LESS THAN 'D/3'**

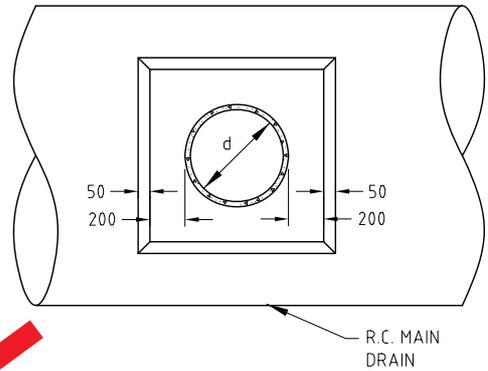


SECTION B

BREAK INTO PIPE FOR
CONNECTION. BEND
REINFORCEMENT TO
FORM COLLAR

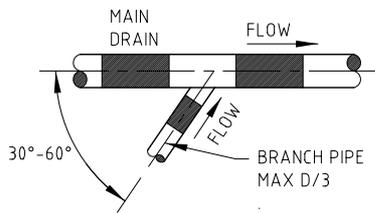


**BRANCH PIPE UP TO $\phi 375$
PROVIDED 'd' IS LESS THAN 'D/3'**



SECTION A

NOTE:
WHEN 'd' IS GREATER THAN 'D/3'
A JUNCTION PIT OR CHAMBER MUST BE DESIGNED.
REFER TO DRGS 7251/8/315
& 316 FOR STANDARD JUNCTION PIT DETAILS.



NOTE: PREFERENCE SHOULD BE GIVEN TO ANGLING
BRANCH PIPE 30° - 60° IN DOWNSTREAM DIRECTION.
WHEN 'd' < D/6, ANGLE OF BRANCH PIPE MAY BE
INCREASED TO 90°

NOTES:

1. REINFORCEMENT IN MAIN DRAIN TO BE CUT AND FORMED INTO COLLAR. CARE SHOULD BE TAKEN TO PREVENT DAMAGE TO PIPE & TO ENSURE SIZE OF OPENING IS KEPT TO A MINIMUM.
2. WHERE CONNECTION CANNOT BE RENDERED FROM INSIDE MAIN DRAIN, CONNECTION TO CONSIST OF 300MM LONG STUB TO ALLOW RENDERING FROM OUTSIDE.
3. ANY CONNECTION WORKS PERFORMED FROM INSIDE A MW MAIN DRAIN MUST BE IN ACCORDANCE WITH MW'S 'CONFINED SPACE ENTRY' WORK PROCEDURES.
4. BONDING OF NEW TO OLD CONCRETE SHALL BE SUFFICIENT TO ENSURE NO CRACKS OR LEAKS FORM. OLD CONCRETE TO BE SCABBLED, CLEANED AND ANY REINFORCEMENT WITHOUT ADEQUATE COVER (IE. LESS THAN 30mm) TO BE EPOXY SEALED OR SIMILARLY TREATED.
5. PIPE CONNECTIONS TO BE WITHIN MIDDLE 1/3 OF MAIN DRAIN.
6. CONCRETE SHALL BE 25MPa MIN.

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| A | Developed for LDM 2007 | 08.07 |
| REV | NOTE | DATE |



DRAINAGE STANDARD DRAWING
**PIPE CONNECTIONS TO
MAIN DRAINS**

DRG NO. **7251/8/307** REV **A**
Scale N.T.S.