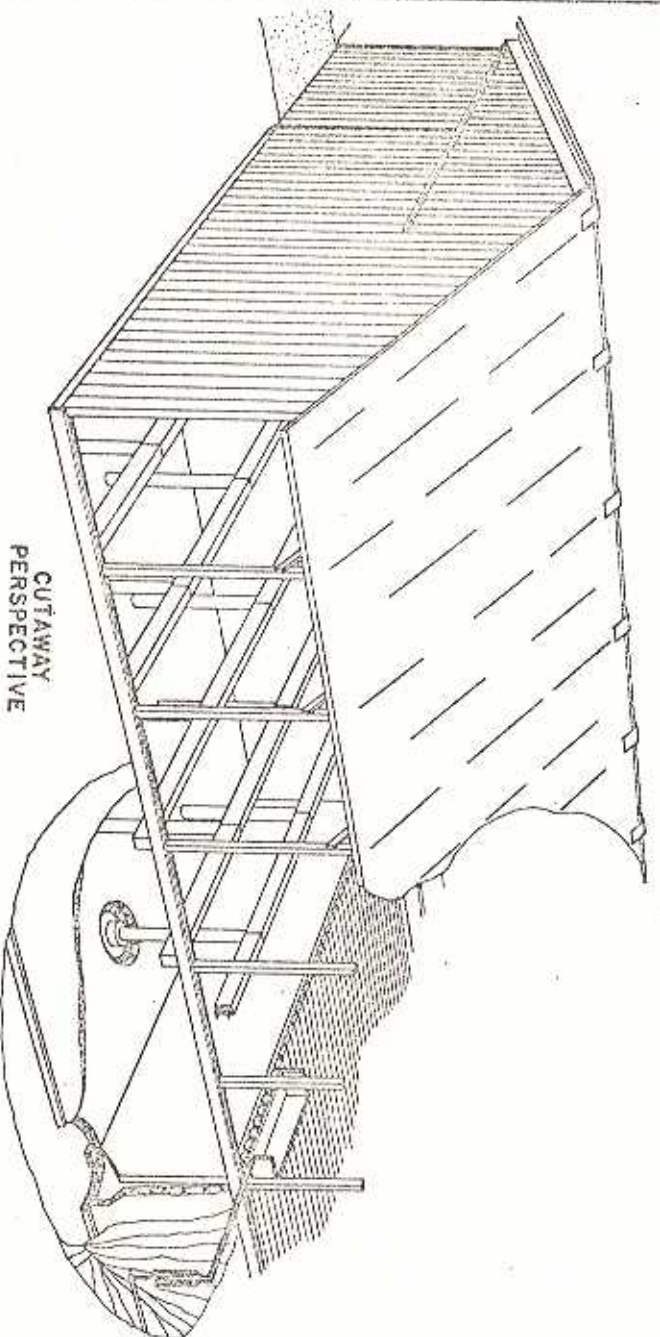


FLOOR AND FOUNDATION PLAN



CUTAWAY PERSPECTIVE

CONCRETE BARN NOTES

CROSS WALLS: REINFORCED FOR A PRESSURE OF 60 P.S.F.-PLU.
PERIMETER WALLS: REINFORCED FOR A PRESSURE OF 60 P.S.F.-PLU. ACT (EQUIV. OF 20 P.S.F.-PLU.). IF OTHERS WERE TAKEN AS BULLDOZE SIZE IS MADE THAN 2" ABOVE PIT FLOOR LEVEL. INSTALL FOOTING TILE AND STOP PIPES TO RELIEVE PRESSURE OR CHECK WITH ENGINEER FOR ADDITIONAL REINFORCING.
WALL THICKNESS: AN 8" THICK WALL ABSORBS MORE STRESS THAN A 6" THICK WALL BECAUSE OF RELATIVELY EXTENSIVE EXPANSION-CONTRACTION AND THE WOUNDS OF CONCRETE. AN 8" THICK WALL NOT STIFF IN UNDER LOW WINDS IN DIFFICULTY OF PLACING STEEL AND CONCRETE IN A FORM.
PRECAUTIONS: THIS DESIGN IS MADE FOR WIND BUILDING STRESSES. THE GREATEST DANGER OF A WALL FAILURE IS DURING BACKFILLING. BEAMS AND SLATS SHOULD BE IN PLACE BEFORE BACKFILLING. TEMPORARY BRACING COULD BE GIVEN TO HELP WITHSTAND WATER PRESSURE FROM A HEAVY RAIN OR VEHICLE WHEEL LOADS DURING BACKFILLING.

BASED ON PLAN NO. 567
 UNIV. OF ILL.

COOPERATIVE EXTENSION WORK IN
 AGRICULTURE AND HOME ECONOMICS

UNIVERSITY OF ILLINOIS, URBANA
 CONFINEMENT BEEF BARN
 REAR DRIVEWAY GABLE ROOF
 ILL. '73 G150 SHEET 1 OF 3