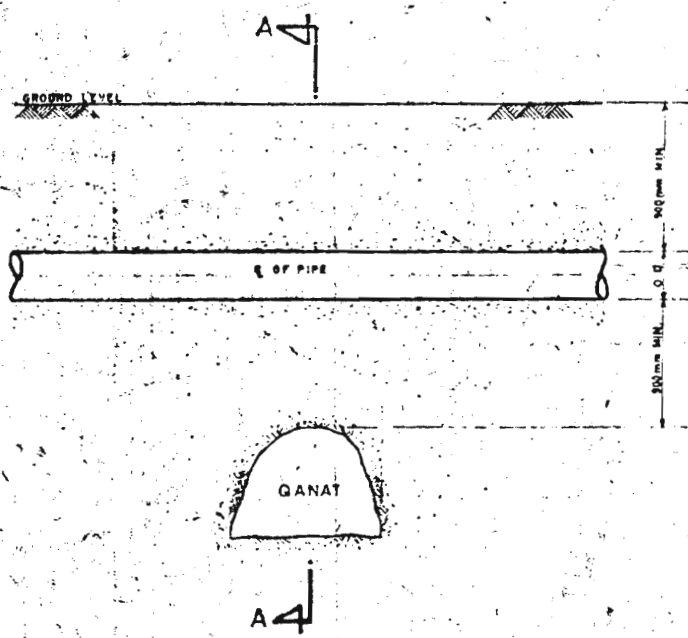


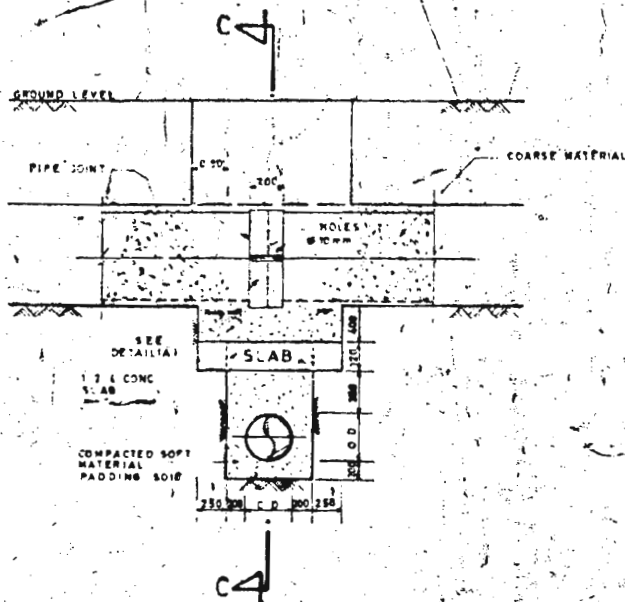
NOTES

- 1- **GANAT CROSSING UNDER CROSSING**
 THE WATER FLOW CONTINUITY SHALL BE REESTABLISHED WITH TWO OR MORE PIPE JOINTS. THE DIAMETER OF WHICH SHALL BE AS CLOSE AS POSSIBLE TO THE GANAT DIAMETER.
- THE PIPE SHALL BE:
 - EITHER TARRED STEEL PIPE
 - OR REINFORCED CONCRETE PIPE
 - OR OTHER APPROVED PIPE
- THE TARRED STEEL PIPE SHALL BE JOINT WITH A TARRED BOLTED STEEL SPLIT SLEEVE (SEE DETAIL "A")
- EACH PIPE JOINT SHALL ENTER INTO THE GANAT FOR AT LEAST ONE METER MEASURED FROM THE OPEN CUT LIMIT.
- THE INTERVAL BETWEEN THE OUTSIDE SURFACE OF THESE PIPES AND THE TOP AND SIDES OF THE GANAT SHALL BE PLUGGED UP WITH THE COMPACTED COARSE MATERIAL.
- UNDERGROUND STRUCTURE CROSSING**
- 2- H MIN=600 IN ROCK AND SWAMP AREAS, 900 IN NORMAL TERRAIN, 1200 IN CULTIVATED LAND
- 3- E = MINIMUM ALLOWED DISTANCE BETWEEN UNDERGROUND STRUCTURE AND PIPE LINE
 E = 900 IF UNDERGROUND STRUCTURE IS A TELECOMMUNICATION CABLE OR A CABLE FOR ELECTRIC ENERGY TRANSPORT OR A NON-METALLIC PIPELINE FOR NON-FLAMABLE PRODUCTS
 IF UNDERGROUND STRUCTURE IS A STEEL PIPE FOR FLAMABLE PRODUCTS E SHALL BE EQUAL TO THE DIAMETER OF THE LARGEST PIPE OR 900 WHICHEVER IS LARGER.
- 4- DOUBLE COAT & WRAP EXTENDS 8000 APART OF EACH SIDE OF THE CROSSED STRUCTURE.
- 5- WHEN THE CROSSED STRUCTURE IS A METALLIC PIPE LEAD TEST POINT SHALL BE PROVIDED FOR EACH PIPE TERMINATED IN A BONDING BOX. THIS BOX SHALL BE MADE AND INSTALLED ACC. TO DWG NO. SP.6002/B.
- COMMON NOTE
 6- ALL DIMENSIONS ARE IN MILLIMETERS OTHERWISE SPECIFIED.

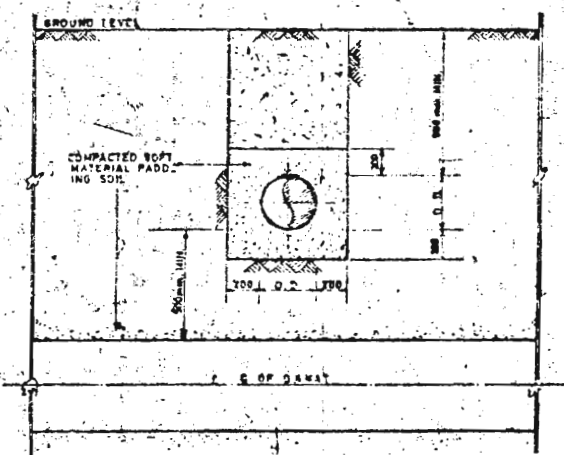
GANAT CROSSING



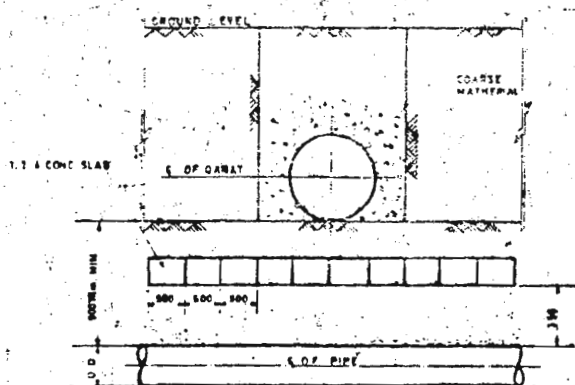
OVER CROSSING



UNDER CROSSING

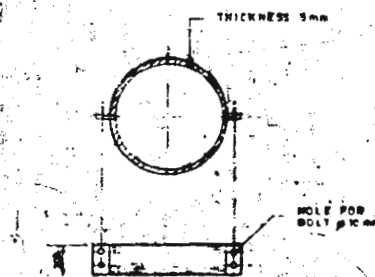


SECTION A_A

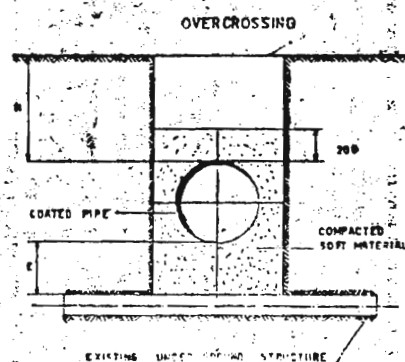
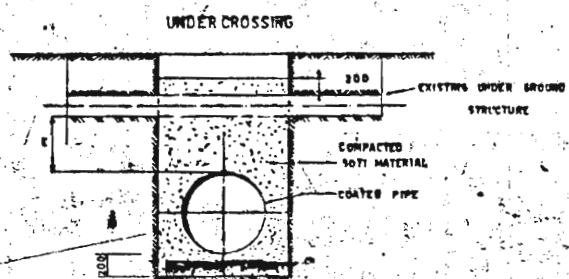


SECTION C_C

(TARRED SPLIT SLEEVE FOR STEEL PIPE JOINT)



DETAIL "A"



UNDERGROUND STRUCTURE CROSSING

REFERENCE DRAWINGS					
DWG No.	TITLE				
SC-6103	STANDARD WARNING CONCRETE SLAB				
SP-6002/B	CATHODIC PROTECTION TEST BOX				
F					
E					
D					
C					
B	SLAB THICKNESS CHANGED				
A					
REV	DESCRIPTION	CHECK	DATE	APP	DATE
	NO CONSTRUCTION PERMITTED UNLESS THIS DRAWING IS APPROVED				
NATIONAL IRANIAN GAS COMPANY					
ENGINEERING AND TECHNICAL SERVICES AFFAIRS					
STANDARD					
GANAT AND EXISTING UNDERGROUND STRUCTURE CROSSING					