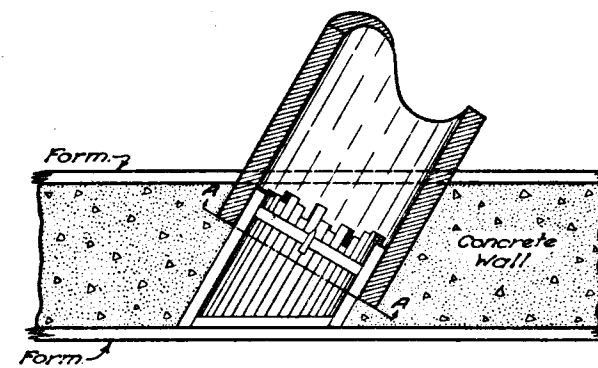
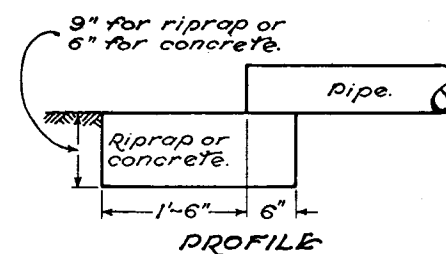
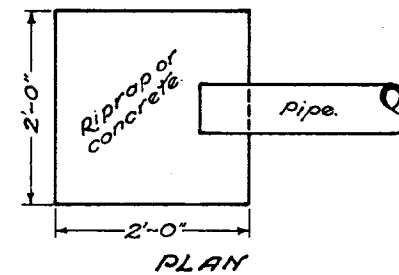
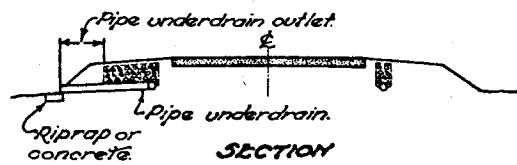
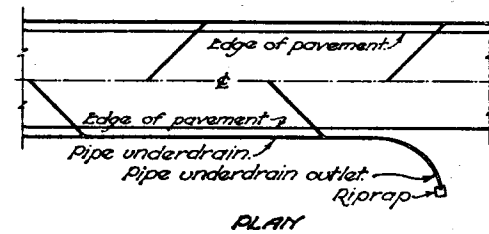


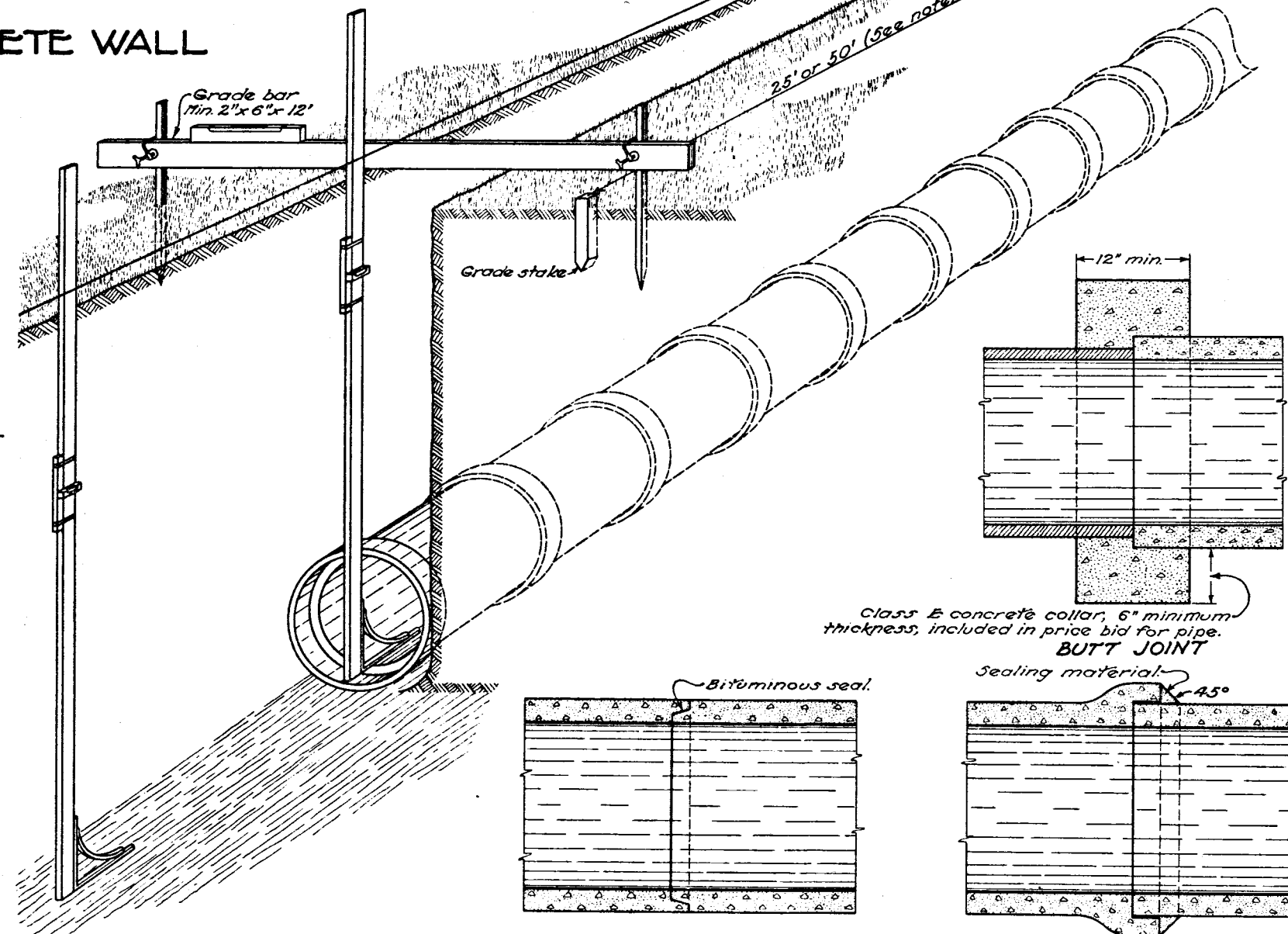
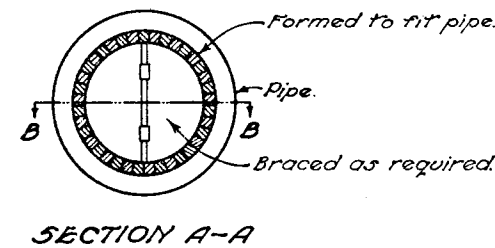
CONSTRUCTION METHODS



SECTION B-B
Through wall and pipe.
BARRELLING CONCRETE WALL



**PIPE UNDERDRAIN
OUTLET**



LAYING PIPE

TONGUE AND GROOVE JOINT

SEALED PIPE JOINTS

BELL AND SPIGOT JOINT

NOTES

BARRELLING OUT CONCRETE WALL:—When necessary that the pipe be barrelled out to the required lengths, it shall be done according to the details shown hereon.

GRADE STAKES shall be set at the following intervals:— For grades less than 0.70% — 25 feet.

For grades of 0.70% and over — 50 feet.
GRADE POLE shall be a straight pole dressed with corners rounded, size depending on the length but approximately 1" x 2". The pole shall be equipped with a metal bracket on the bottom with a projecting length of 12". Notches shall be cut on the pole for the depth of the flow line below the grade string and for the depth of trench. A spirit level shall be used on the pole to determine when the pole is vertical.

PIPE JOINTS:—When the construction item calls for sealed joints they shall conform to the details shown hereon and to the appropriate sections of the Construction and Material Specifications.

Where called for on the plans, in the proposal or the specifications, pipe of the type and size specified, shall be encased with a minimum of five inches of Class "E" concrete meeting the requirements of Item 5-1. Payment for furnishing and placing the concrete, and for any additional excavation required, shall be included in the price bid per linear foot of the pertinent pipe item.

PIPE UNDERDRAIN OUTLET:—Place type A riprap 9" thick or Class "E" plain concrete slab 6" thick at the outlet end of underdrain pipe as shown. Cost of furnishing and placing riprap or concrete slab shall be included in price bid per linear foot of outlet pipe.

BUREAU OF LOCATION AND DESIGN
OHIO DEPARTMENT OF HIGHWAYS

**DRAINS
AND
SEWERS**

STANDARD
CONSTRUCTION I-1,2,3,4 & 5
DRAWING

APPROVED *[Signature]* ENGR. L. & D.

DATE:
9-1-33
4-1-34
5-1-34
1-1-36
3-1-39
1-1-46
2-20-46
4-24-58