Excavation Methods

METHOD A-CUT

METHOD B-FILL

Minimum Constructed Embankment

Trench Dimensions

MATERIAL	SW	WIDTH (W)
Long Span	2'	Span+2(2)
Concrete	0.165X Span	1.33X Span
Metal & Plastic	0.5+0.125X Span	1.25X Span+1

NOTES

- Use Structural Backfill Type 1 or 2 as per CMS 703.11.
- Use Embankment as per CMS 203.
- Conduit Span is the horizontal distance from outside wal to outside wall.
- Conduit Rise is the vertical distance from outside wal to outside wall.
- All dimensions are in feet unless specified.

Bedding Types

TYPE 1 BEDDING

Structural Backfill

Use Type 2 Bedding for Type A, B, C & D Conduits Except for Long Span and Conduits Requiring Type 3 Bedding.

0.30 X Rise (Min.)

Depth = 3'' Min. for All 706 Conduits
6'' Min. for All Other Conduits

TYPE 2 BEDDING

△ The Middle 1/3 W Under the Conduit Shall Be Uncomplacted

Use Type 3 Bedding for 706.01, 706.02, or 706.03 Type C & D Conduits

Use Type 4 Bedding for Type E & F Conduits

TYPE 3 & 4 BEDDING

△ Scarify and Loosen the Middle 1/3 W Under the Conduit for Type 3 Bedding

OHIO DEPARTMENT OF TRANSPORTATION

STATE HYDRAULIC ENGINEER

DATE 7-19-02 1-21-05

HYDRAULIC ENGINEER J. Syar

All metric dimensions in brackets [ ] are in millimeters unless otherwise noted.

OFFICE OF STRUCTURAL ENGINEERING

STANDARD HYDRAULIC CONSTRUCTION DRAWING

CONDUIT INSTALLATION

NUMBER DM-1.4

Backfill Conditions

LONG SPAN-FILL

* Fill to Subgrade Elevation if Less Than Min.

LONG SPAN-CUT

** PLASTIC CONDUIT, TYPE C & D -FILL

** For All Other Type C & D Conduits Place & Compact Backfill on Top of Bedding.

CONDUIT, TYPE A & B-FILL

CONDUIT TYPE A & B-CUT

** PLASTIC CONDUIT, TYPE C-CUT

-Construction Embankment

-Structural Backfill

NOTES

Backfill Conduits as per CMS 603.

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CONDUIT INSTALLATION

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