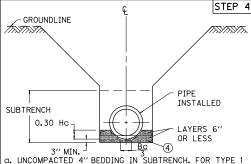


G. TRENCH CONDITION IS WHEN GROUNDLINE ELEVATION IS GREATER THAN HO ABOVE TOP OF PROPOSED PIPE.

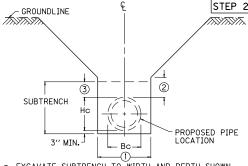
GROUNDLINE MAY BE (a) EXISTING OR ORIGINAL (b) EXCAVATED SURFACE OR (c) EMBANKMENT SURFACE.



- a. UNCOMPACTED 4" BEDDING IN SUBTRENCH. FOR TYPE 1
 INSTALLATION COMPACT BEDDING IN LAYERS 6" OR
 LESS TO AN ELEVATION 0.30 Hc.
 LEAVE CENTER THIRD OF OUTSIDE PIPE DIA. (Bc/3) BEDDING UNCOMPACTED.
- BEDDING UNCOMPACTED.

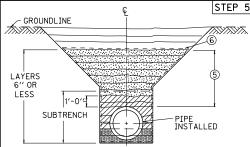
 EXCAVATE A GROOVE IN THE BEDDING TO CONFORM TO THE OUTSIDE OF THE PIPE. AFTER EXCAVATION OF THE GROOVE, A MINIMUM 3" OF BEDDING SHOULD REMAIN BELOW THE OUTSIDE INVERT OF THE PIPE. THE CRADLE SHALL BE GACED FOR SHAPE AND SLOPE BY STRIKING OR DRAWING A TEMPLATE THROUGH THE GROOVE IMMEDIATELY BEFORE PLACING EACH SECTION OF PIPE.

 INSTALL PIPE AT CORRECT ALIGNMENT AND ELEVATION. RECOMPACT ANY LOOSE BEDDING DISTURBED DURING INSTALLATION.
- INSTALLATION.
- WRAP BEDDING MATERIAL IN GEOTEXTILE FABRIC WHEN THE STANDARD SPECIFICATIONS SPECIFIES. 4



- a. EXCAVATE SUBTRENCH TO WIDTH AND DEPTH SHOWN. TRENCH WALLS MAY BE CONSTRUCTED VERTICAL. FOR ILLUSTRATION PURPOSES THE DETAIL DEPICTS A SLOPING WALL TRENCH. WHICHEVER METHOD IS USED, THE TRENCH WALLS SHALL REMAIN SYMMETRICAL ABOUT THE CENTERLINE OF THE PIPE.
- Bc + 24" FOR PIPE 36" DIA. OR LESS. Bc + 48" FOR PIPE GREATER THAN 36" DIA. 1
- SLOPING OF TRENCH WALLS MAY BEGIN AT ANY ELEVATION GREATER THAN 1'-0" ABOVE TOP OF PIPE. THE SUBTRENCH SHALL ALWAYS BE REQUIRED.

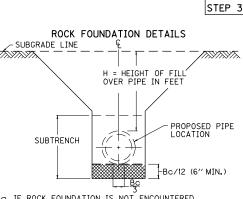
3 1'-0" MINIMUM TO He MAXIMUM.



(5) 4'-0" REQUIRED FOR CONSTRUCTION LOADING.

- G. COMPACT REQUIRED BACKFILL MATERIAL IN LAYERS 6"
 OR LESS TO 1'-0" ABOVE TOP OF PIPE. ZZZZ

 b. IN A UNIFORM SYMMETRICAL MANNER COMPACT
 REQUIRED BACKFILL MATERIAL TO ELEVATION (5)
 ABOVE TOP OF PIPE IN LAYERS OF 6" OR LESS.
- C. PROCEED WITH TRENCH BACKFILL IN A SYMMETRICAL MANNER IN LAYERS 1'-0" OR LESS TO THE ORIGINAL GROUND AS DEFINED IN STEP 1.
- WRAP BEDDING MATERIAL IN GEOTEXTILE FABRIC WHEN THE STANDARD SPECIFICATIONS SPECIFIES. 6



- G. IF ROCK FOUNDATION IS NOT ENCOUNTERED, GO DIRECTLY TO "STEP 4".

 b. IF ROCK FOUNDATION IS ENCOUNTERED, EXCAVATE TRENCH DEPTH USING FORMULA GIVEN. THIS DEPTH SHALL BE A MIN. OF 6" AND SHALL NOT EXCEED 24"
- c. BACKFILL WITH COMPACTED BEDDING MATERIAL IN LAYERS 6" OR LESS LEAVING Bo/3 UNCOMPACTED IN THE FINAL LAYER.

MAX. COVER HEIGHT				2' OF COVER OR LESS	
CLASS	TYPE 1	TYPE 4		CLASS	PIPE DIA.
III	25′	9′		٧	12''-15''-18''
IV	38′	15′		IV	21''-24''
V	57′	23′		III	27" & LARGER
IOTE:					

NOTE:
10' MAXIMUM COVER HEIGHT
FOR HORIZONTAL ELLIPTICAL
CLASS HE III PIPE.

COVER HEIGHTS EXCEEDING THOSE SHOWN IN TABLES REQUIRE SPECIAL DESIGNS.

-24′′ LARGER SHAPES PIPE

CIRCULAR

L_{Bc}J HORIZONTAL ELLIPTICAL

REQUIRE SPECIAL DESIGNS.

FOR TYPE 4 INSTALLATION
PLACE EMBANKMENT MATERIAL ACCORDING TO SECTION
701.03.06A OF CURRENT SPEC. BOOK.
FOR TYPE 1 INSTALLATION,
WHEN THE TOP OF PIPE IS
NOT WITHIN ONE PIPE
DIAMETER OF THE
SUBGRADE, INSTALL
ACCORDING TO SECTION
701.03.06A OF THE
CURRENT SPEC. BOOK.

PIPE BEDDING
TRENCH CONDITION

DEPARTMENT OF HIGHWAYS

TRENCH CONDITION REINFORCED CONC. PIPE

STANDARD DRAWING NO. RDI-026

SHEET 2 OF 2