



Consultants:

CIVIL:
Glenn Engineering

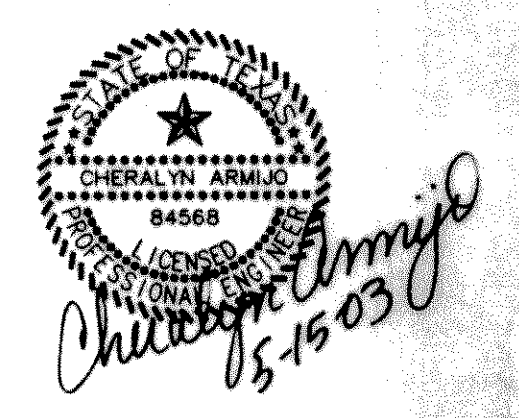
STRUCTURAL:
SHW GROUP, INC.

MEP:
Estes, McClure and Assoc., Inc

FOOD SERVICE:
Hg Rice and Company, Inc

LANDSCAPING:

Final Plans for Bidding and Construction

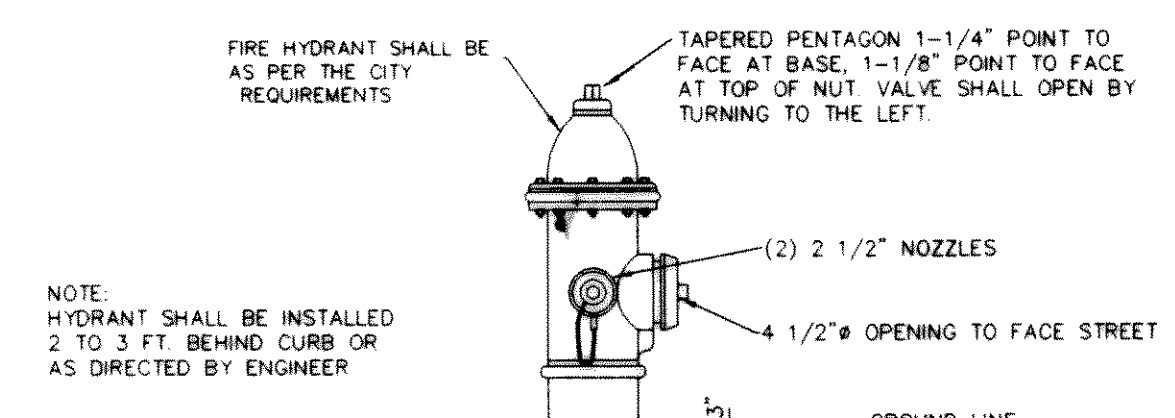


PHASE TWO
Administration Facility
Williams MS
Conversion
Rockwall Independent
School District

Project Number: 1441.02.109
 Drawing Date: 05/15/03
 Drawn: R.HOWMAN
 Checked: RAH
 Scale: 1"=30'
 ACAD File: WILLIAMS-NEW.dwg
 © 2003 SHW Group, Inc.

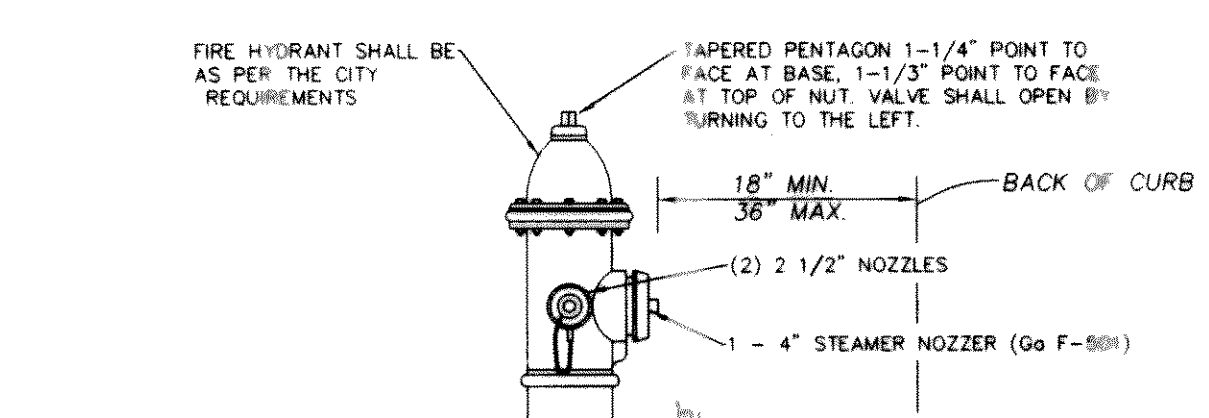
Revisions:	DESCRIPTION
1	

Sheet Title:
WATER
DETAILS

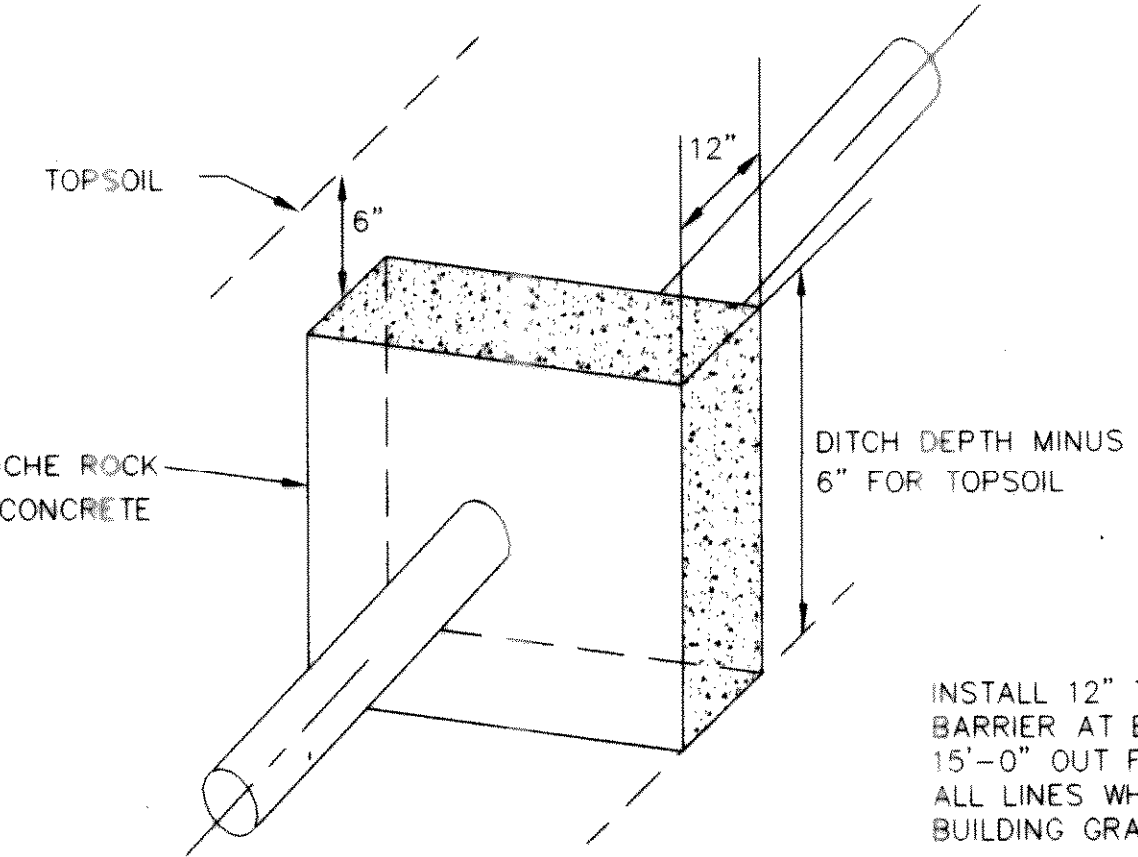


FIRE HYDRANT ASSEMBLY DETAIL
RESTRAINED JOINT INSTALLATION

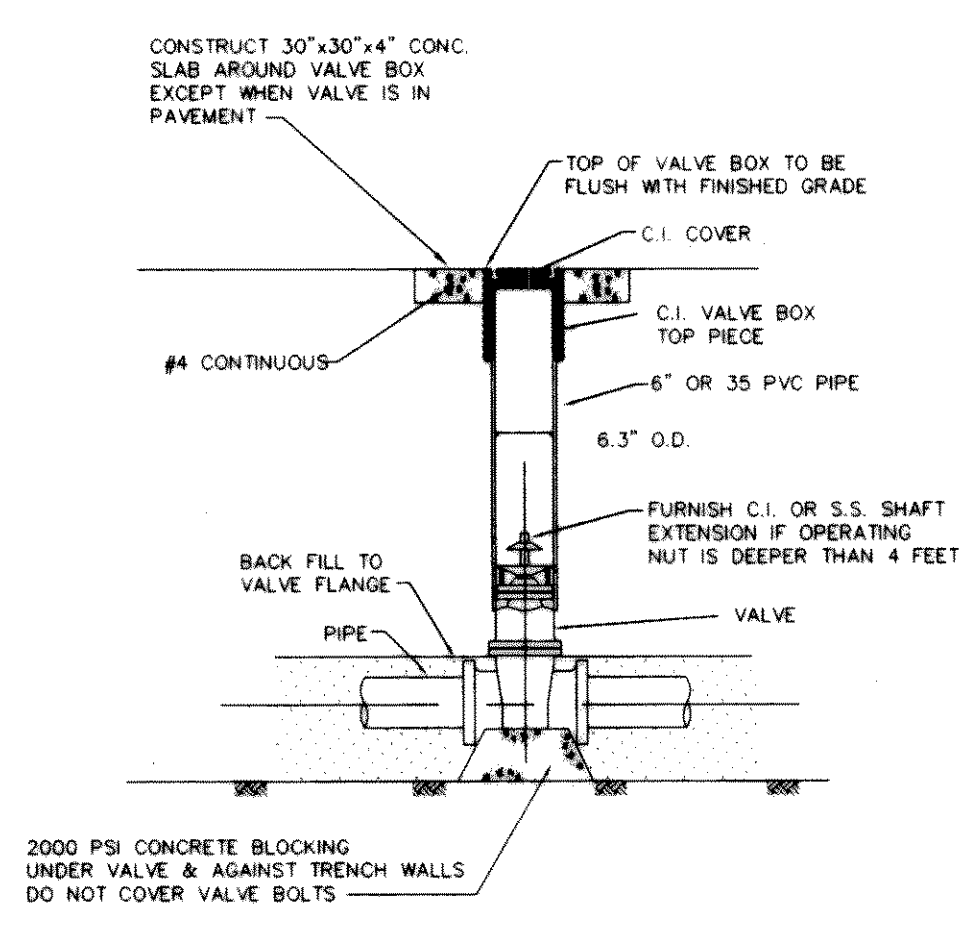
NOTE: USE WHERE THERE IS INSUFFICIENT UNDISTURBED TRENCH TO BLOCK HYDRANT.



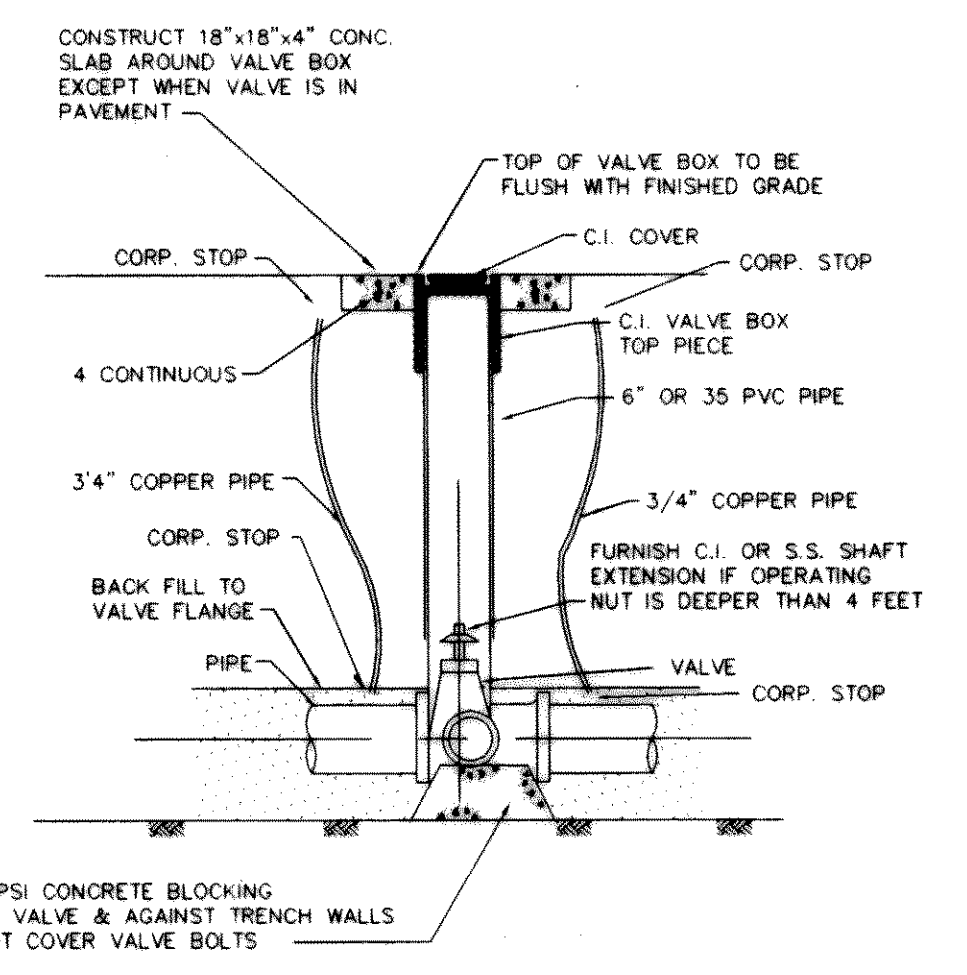
FIRE HYDRANT ASSEMBLY DETAIL
BLOCKED INSTALLATION



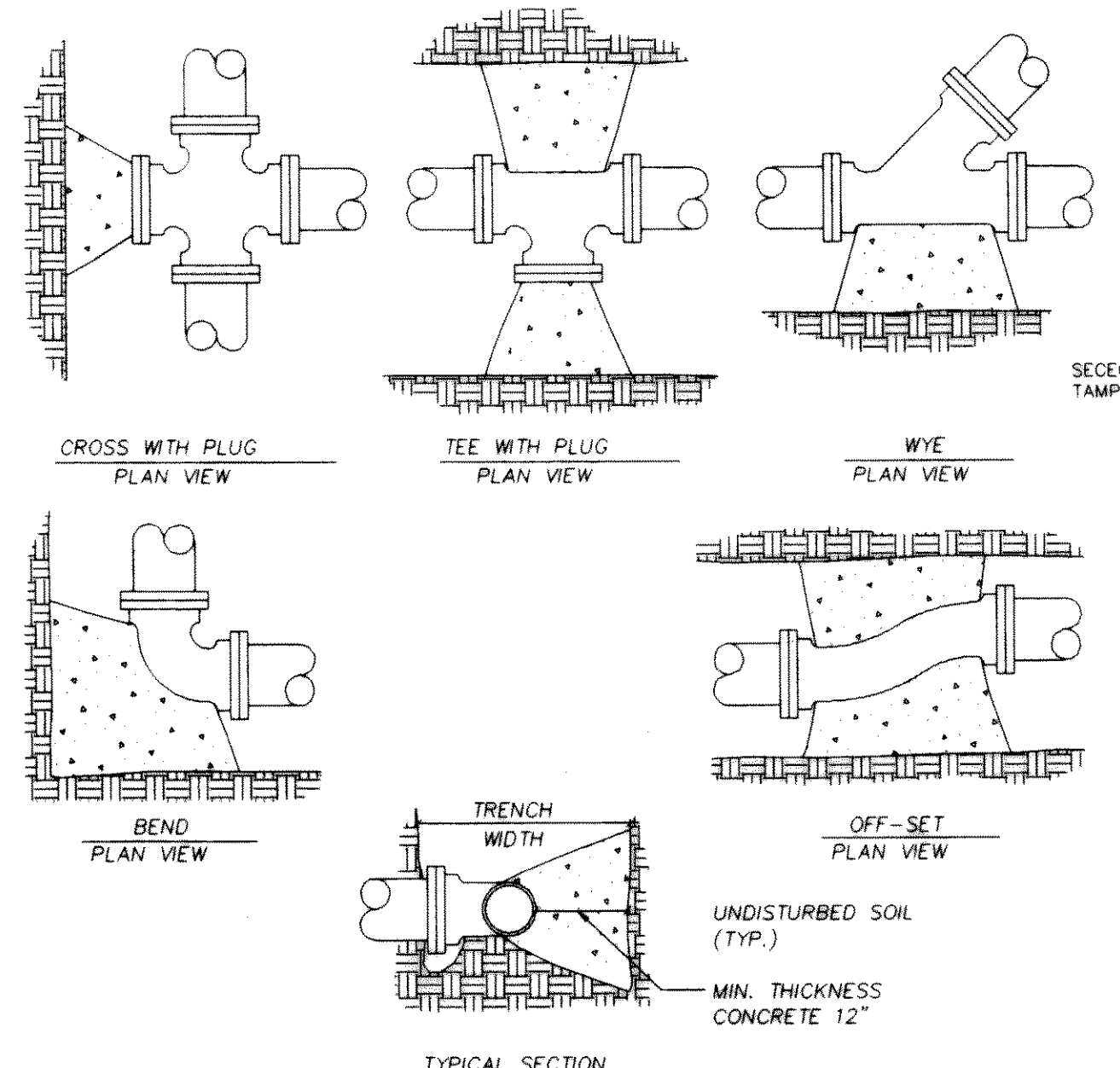
IMPERVIOUS BARRIER



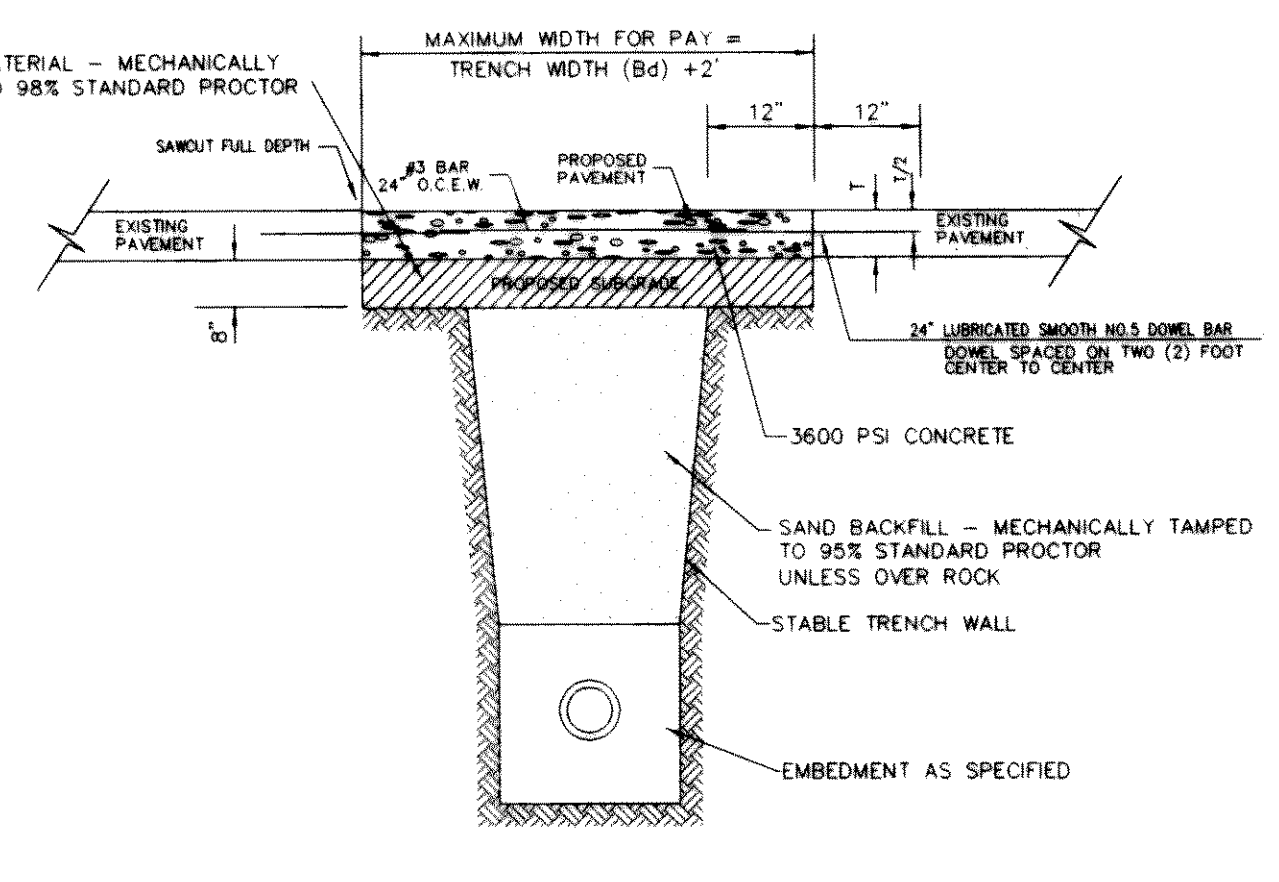
VALVE INSTALLATION DETAIL



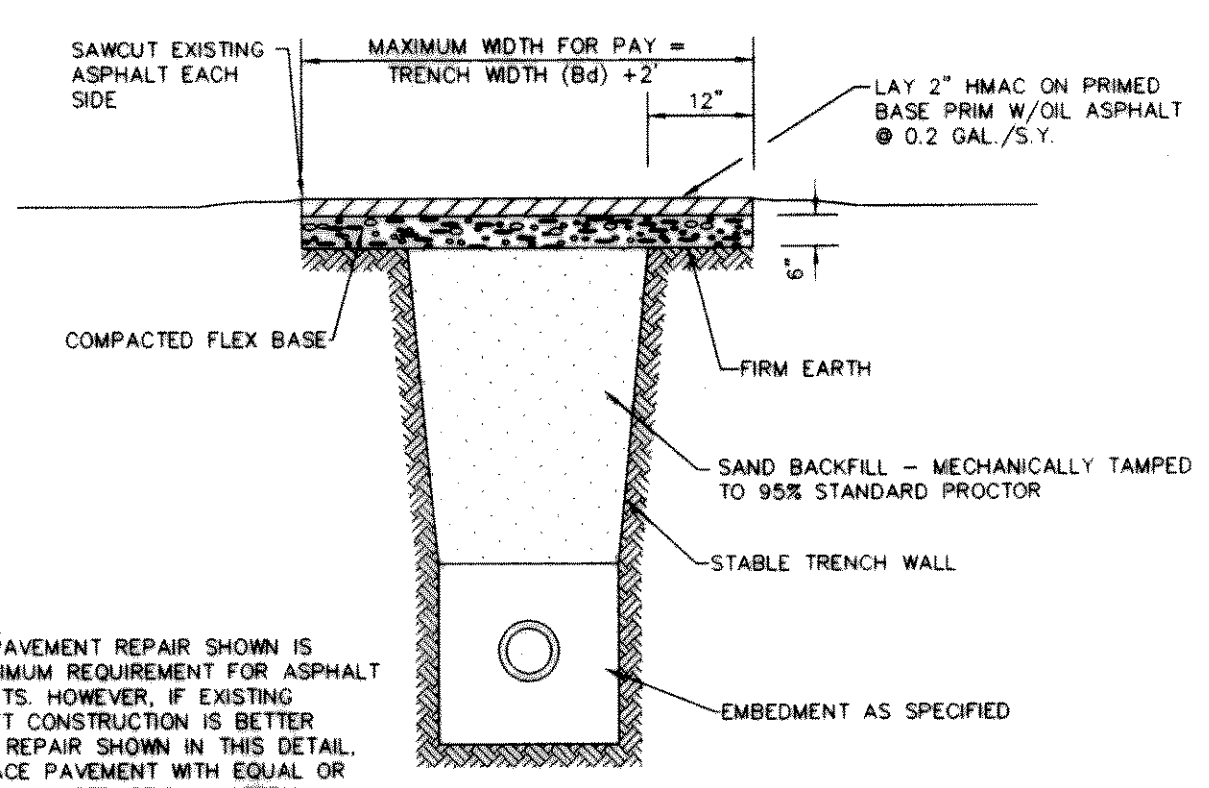
BUTTERFLY VALVE INSTALLATION DETAIL



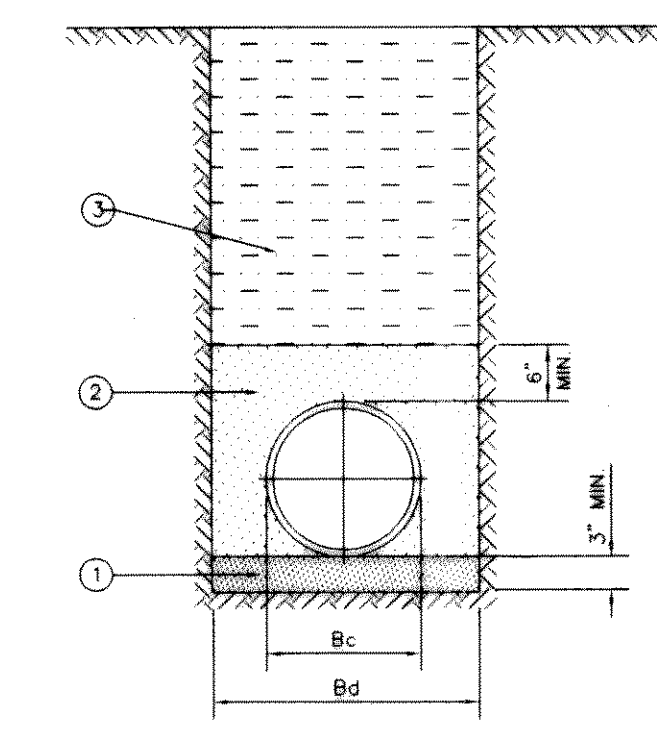
TYPICAL THRUST BLOCKS
NOT TO SCALE



EMBEDMENT UNDER CONCRETE STREETS & PAVEMENT REPAIR DETAIL
N.T.S.



EMBEDMENT UNDER ASPHALT STREETS & PAVEMENT REPAIR DETAIL
N.T.S.

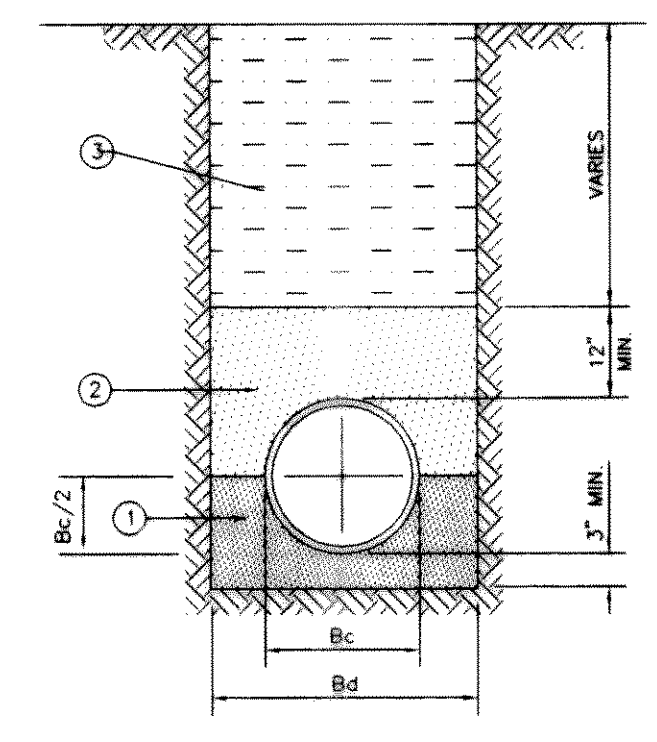


WATER

1 GRANULAR MATERIAL (SAND) - TOP OF LAYER IS TO BE PLACED TO GRADE TO PROVIDE UNIFORM SUPPORT OF PIPE BARREL. EXCAVATE BELL HOLES COMPACT TO 95% PROCTOR DENSITY.

2 GRANULAR MATERIAL (SAND) - COMPACT TO 90% STANDARD PROCTOR DENSITY EXCEPT UNDER STRUCTURES, ROADWAYS AND PAVEMENT WHERE 95% DENSITY IS REQUIRED.

3 SELECT MATERIAL FREE OF ROCKS, CLUMPS OR DEBRIS LARGER THAN 6" IN GREATEST DIMENSION. COMPACT TO 90% STANDARD PROCTOR DENSITY. UNDER STRUCTURES, ROADWAYS AND PAVEMENT, COMPACT TO 95% STANDARD PROCTOR DENSITY.



ROOF DRAIN LINES, FORCE MAIN AND STORM SEWER LINES

1 FINE GRADATION CRUSHED STONE - TOP LAYER IS TO BE PLACED TO GRADE TO PROVIDE UNIFORM SUPPORT OF PIPE BARREL. EXCAVATE BELL HOLES.

2 SELECT MATERIAL FREE OF ROCKS, CLUMPS OR DEBRIS LARGER THAN 6" IN GREATEST DIMENSION. COMPACT TO 90% STANDARD PROCTOR DENSITY. UNDER STRUCTURES, ROADWAYS AND PAVEMENT USE NON-GRANULAR MATERIAL COMPACTED TO 95% STANDARD PROCTOR DENSITY. (NO SAND PERMITTED ABOVE STONE)

3 SELECT MATERIAL FREE OF ROCKS, CLUMPS OR DEBRIS LARGER THAN 6" IN GREATEST DIMENSION. COMPACT TO 90% STANDARD PROCTOR DENSITY. UNDER STRUCTURES, ROADWAYS AND PAVEMENT, COMPACT TO 95% STANDARD PROCTOR DENSITY.

WATER DETAILS
AS SHOWN

These Drawings have been modified to conform to the Construction Records.
 Glenn Engineering Corporation
 By: *William J. Williams* Date: 12/10/04

User: Rick
 May 15, 2003 11:30am
 \\ROBERT-NTD-Drive\ROCKISD\WILLIAMS\2003 ADDITIONS\WORKING\WILLIAMS-NEW.dwg