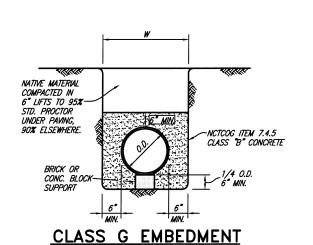


ASPHALT STREET OR DRIVEWAY REPAIR

PROP. WATER PIPE

SAND, STANDARD GRADATION COMPACTED TO 95% STANDARD



CONCRETE ENCASEMENT

CLASS B-4 EMBEDMENT

NATIVE MATERIAL COMPACTED IN 6" LIFTS TO 95%-STD. PROCTOR UNDER PAVING, 90% ELSEWHERE.

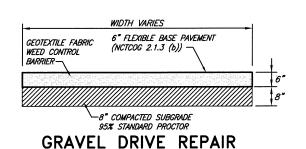
6" MIN.

0.0

CLASS H EMBEDMENT

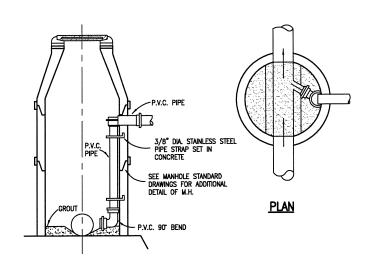
NATIVE MATERIAL COMPACTED TO 95% STD. PROCTOR DENSITY

-6" TOPSOIL



GRADE 4 CRUSHED STONE (NCTCOG ITEM 2.1.8 (a))

1/8 O.D. (3" MIN.



ELEVATION

PRECAST CONCRETE ADJUSTMENT GRADE RINGS (SET IN MORTAR BED AND

CHIMNEY SEALS.

BRING TO GRADE), MAXIMUM ADJUSTMENT 18 INCHES. FURNISH & INSTALL INTERNAL

DROP MANHOLE (INSIDE DROP)

N.C.T.C.O.G. ITEM 6.7.2.(i)

PAMTIGHT (TYPE S) OR PAMREX 24 M.H. FRAME & COVER 8" x 24" DIA. PRECAST REINFORCED CONCRETE GRADE RINGS (SET IN MORTAR BED AND BRING TO GRADE) RINGS 18" MAXIMUM) FURNISH AND INSTALL (M.H. FRAME CAST IN CONCRETE WITH CONTINOUS POUR FROM BASE) -MORTAR COATING FOR MANHOLES WITH DIAMETER
LARGER THAN 48" I.D., A PRECAST
FLAT TOP MANHOLE COVER AS PER
A.S.T.M. C478 SHALL BE INSTALLED. CONCENTRIC MANHOLE CONE. ALL JOINTS IN PRECAST MANHOLF SHALL BE SEALED ON OUTSIDE OF MANHOLE WITH AQUAGARD SHRINK SEAL. USE O-RING RUBBER GASKETS AND

PREFORMED JOINT SEALING COMPOUND PRECAST MANHOLE RISER SHALL BE IN ACCORDANCE WITH A.S.T.M. C-478 BOTTOM SECTION OF MANHOLE IN RISER PIPE LENGTHS OF ONE (1), —TWO (2) OR THREE (3) FEET TO BE SET ON 1" OF HIGH STRENGTH, NON-SHRINK, LEVEL GROUT. STUBOUT TO BE FITTED W/ STOPPER OR CAP. STUBOUTS SHALL BE A MIN. OF 5' LONG (TYP.) W/ CONCRETE CRADLE UNDER ENTIRE LENGTH. ~ NCTCOG CLASS F -CONCRETE BASE COUPLING WITH O-RING RUBBER GASKET WITH P.V.C. PIPE (KOR-N-SEAL)-OR APPROVED EQUAL. 12" NCTCOG GRADE 4 CRUSHED STONE MAT TO BE LAID ON FIRM-MATERIAL OR ROCK FOUNDATION

PRECAST CONCRETE MANHOLE

NO SCALE

-CONCRETE CONE (SEE DETAIL ABOVE FOR 5' AND 6' DIA. MANHOLE CONE TRANSITION) 4200 P.S.I. CONC. -(NCTCOG CLASS "F", MONOLITHIC POUR) COUPLING WITH "O" RING RUBBER GASKET WITH
P.V.C. PIPE (KOR-N-SEAL
OR APPROVED EQUAL) 12" NCTCOG GRADE CRUSHED STONE STANDARD MANHOLE ELEVATION

4', 5' & 6' DIAMETER MANHOLES

SANITARY SEWER MANHOLE (CAST IN PLACE)

This record drawing is a compilation of the sealed engineering drawing for this project; modified by addenda, change orders and information furnished by the contractor. The information shown on the record drawings that was provided by the contractor or others not associated with the design engineer connot be verified for accuracy or ppleteness. This original sealed drawings are on file at the offices of Birkhoff, Hendricks & Carter, L.L.P. BY <u>PAC</u> DATE <u>03/05/12</u>

BIRKHOFF, HENDRICKS & CONWAY, L.L.P.

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CITY ROCKWALL, TEXAS S.C. FORCE MAIN & BUFFALO CREEK SANITARY SEWER

BHC PROJECT NO. 2007-110

PAMTIGHT (TYPE S) OR PAMREX 24 M.H. FRAME & COVER

WITH CONTINOUS POUR FROM BASE)

(M.H. FRAME CAST IN CONCRETE

SHEET NO 7

NOTES AND DETAILS

November 2009

6" MIN IN ROCK

SAND, STD. GRADATION -

COMPACTED TO 95% STD. PROCTOR DENSITY