

General Notes:

These notes apply to the work being done to or adjacent to all Existing Sanitary Sewer Manholes on the project.

Waterstop Gaskets shall be used with P.V.C. and A.B.S. Composite Pipe. The new pipe shall be grouted into the opening using an approved nonshrink grout for the full Manhole Wall thickness. The Exterior of the Completed connection shall be Sealed with an approved Bituminous Coating such that the connection will be water tight.

Contractor to confirm elevations of inverts prior to construction.

Contractor shall Replace loose and missing cement mortar on all exposed surfaces of the Existing Manhole, if necessary.

Touch-up Sealing shall be performed around the Pipe Opening, inside the Manhole with an Approved Manhole Lining Material.

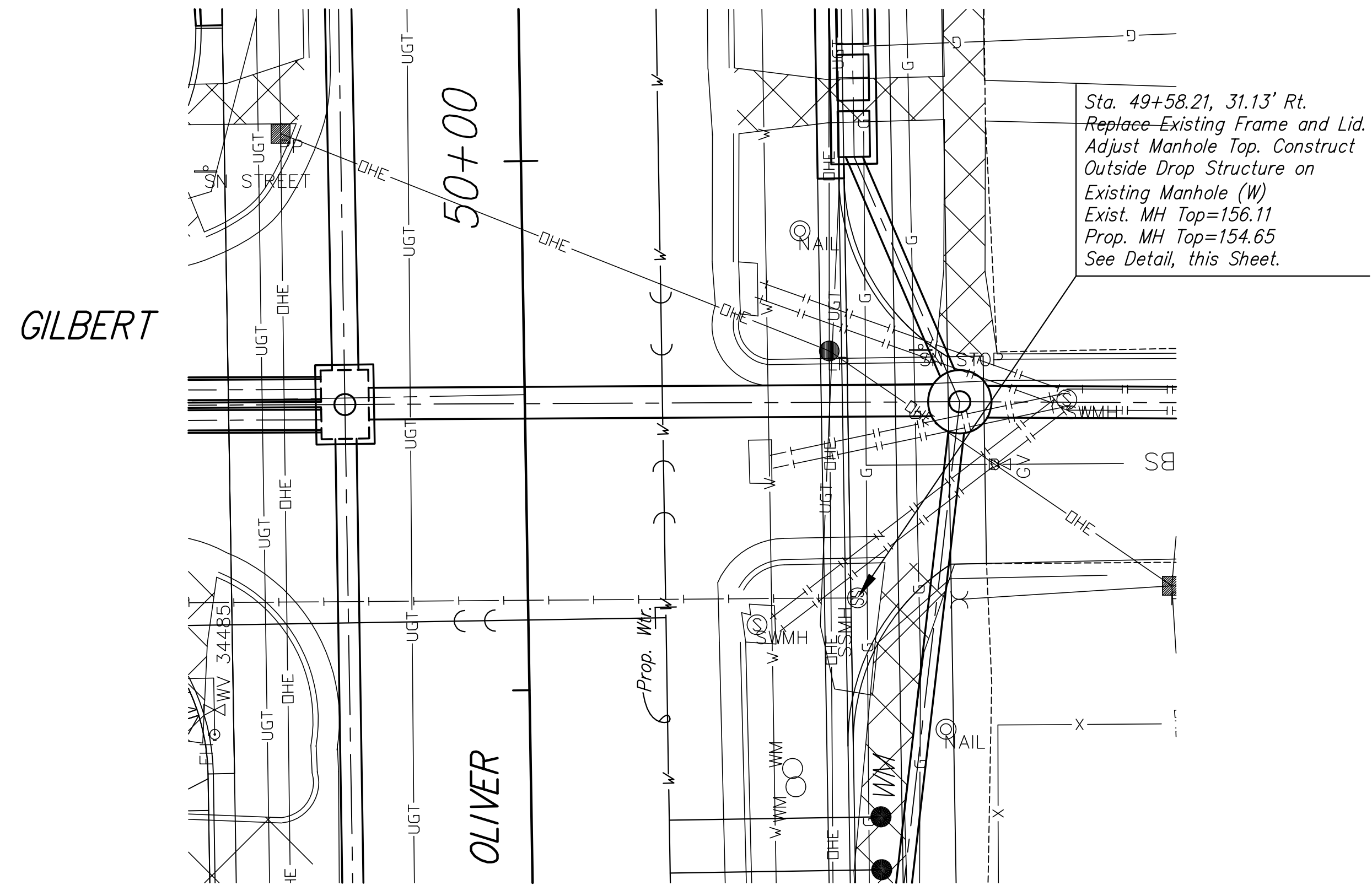
Approved Manhole Liner Materials are as follows:

- Raven 405 High Build Epoxy
- Sauereisen 210S
- Warren S-301 Epoxy
- Zebtron

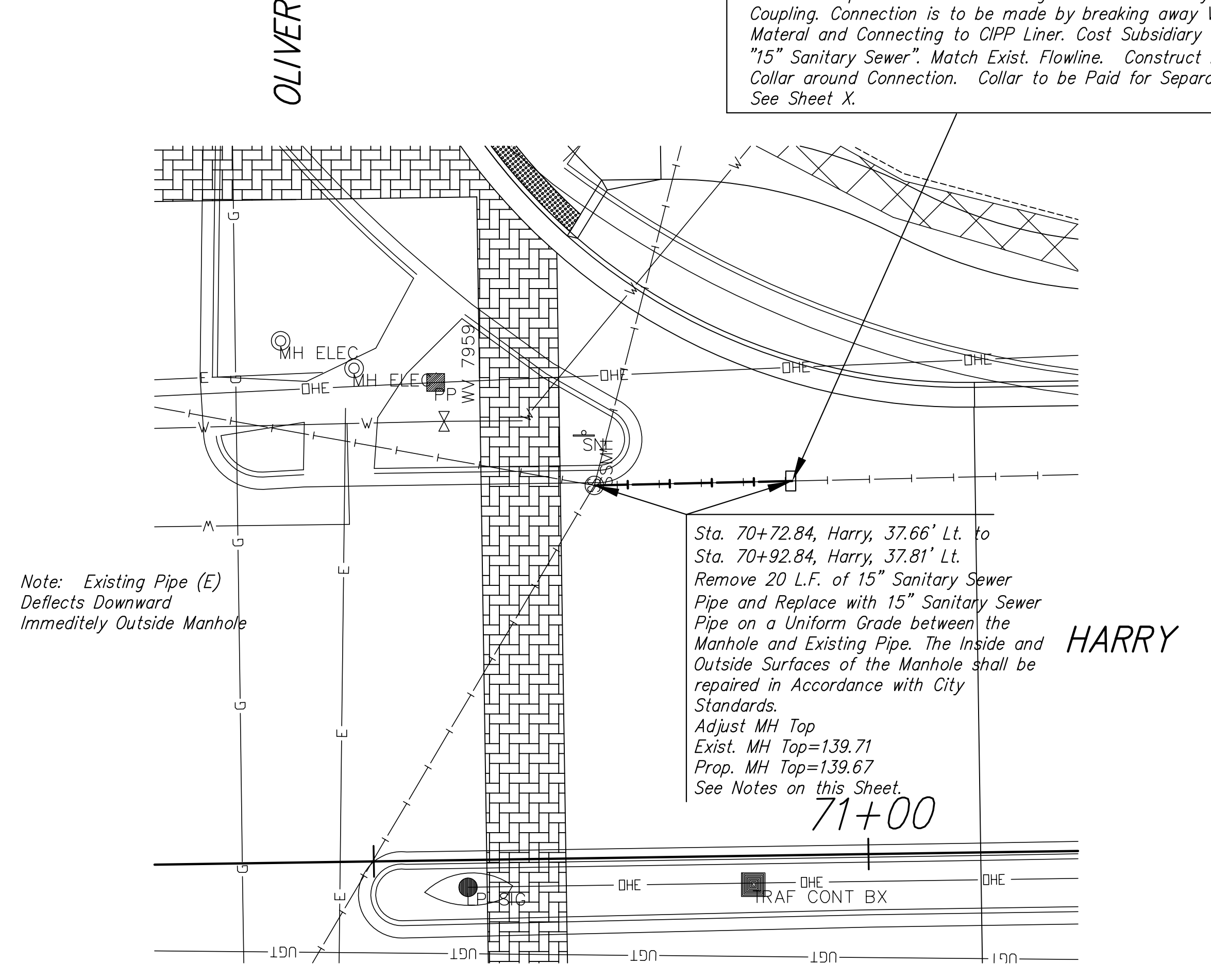
Products Shall be applied at a Minimum Thickness of 90 mils or the minimum thickness required by the manufacturer, whichever is thicker.

STATE	PROJECT NO.	YEAR	SHEET NO.	TOTAL SHEETS
KANSAS	87 N-0357-01	2008	103	185

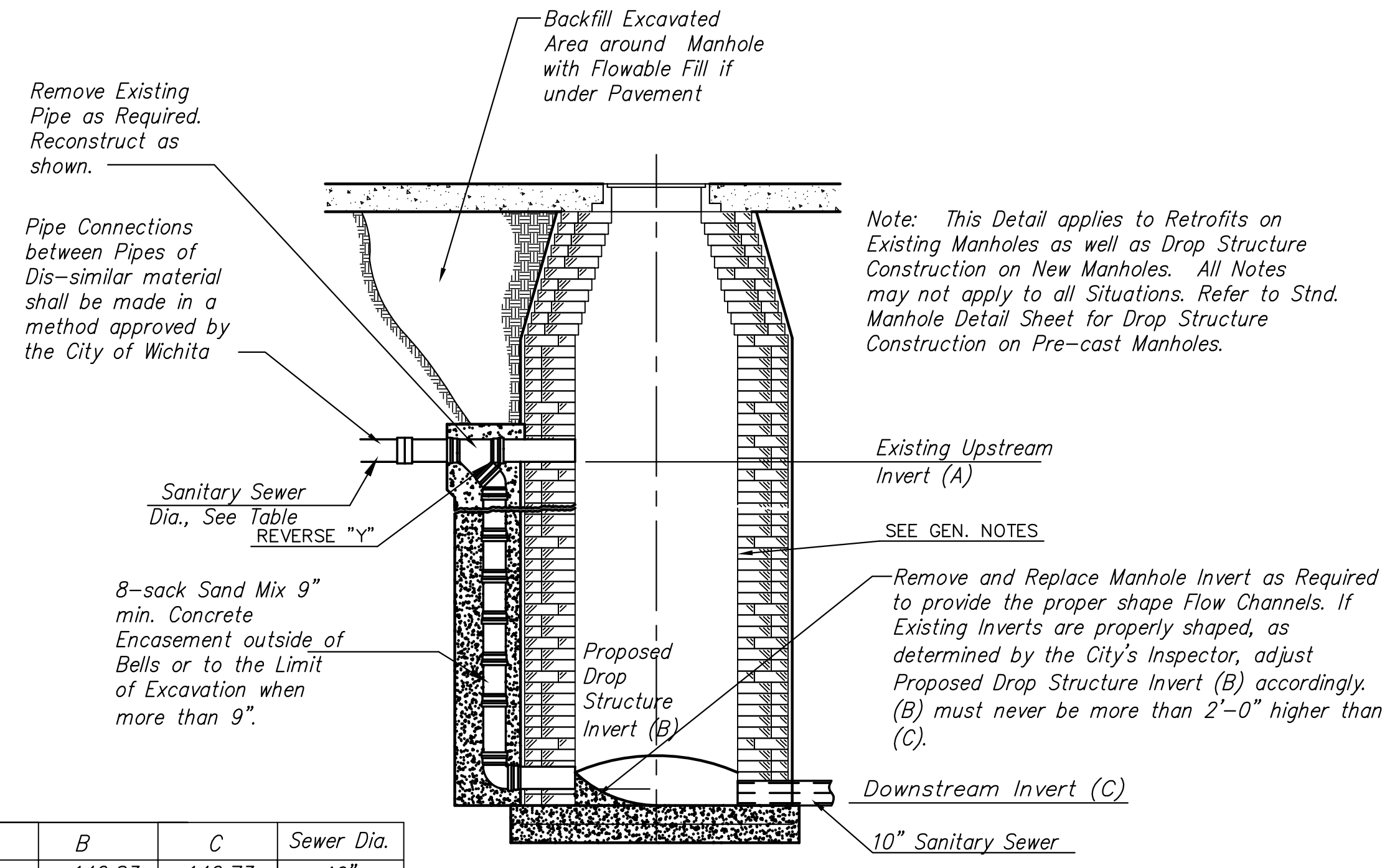
Sta. 10+20.00, Line 2=Sta. 70+92.84, 37.81' Lt. Connect Proposed Sewer to Existing with a Dresser Style Coupling. Connection is to be made by breaking away VCP Material and Connecting to CIPP Liner. Cost Subsidiary to "15" Sanitary Sewer". Match Exist. Flowline. Construct Pipe Collar around Connection. Collar to be Paid for Separately. See Sheet X.



DROP STRUCTURE PLAN

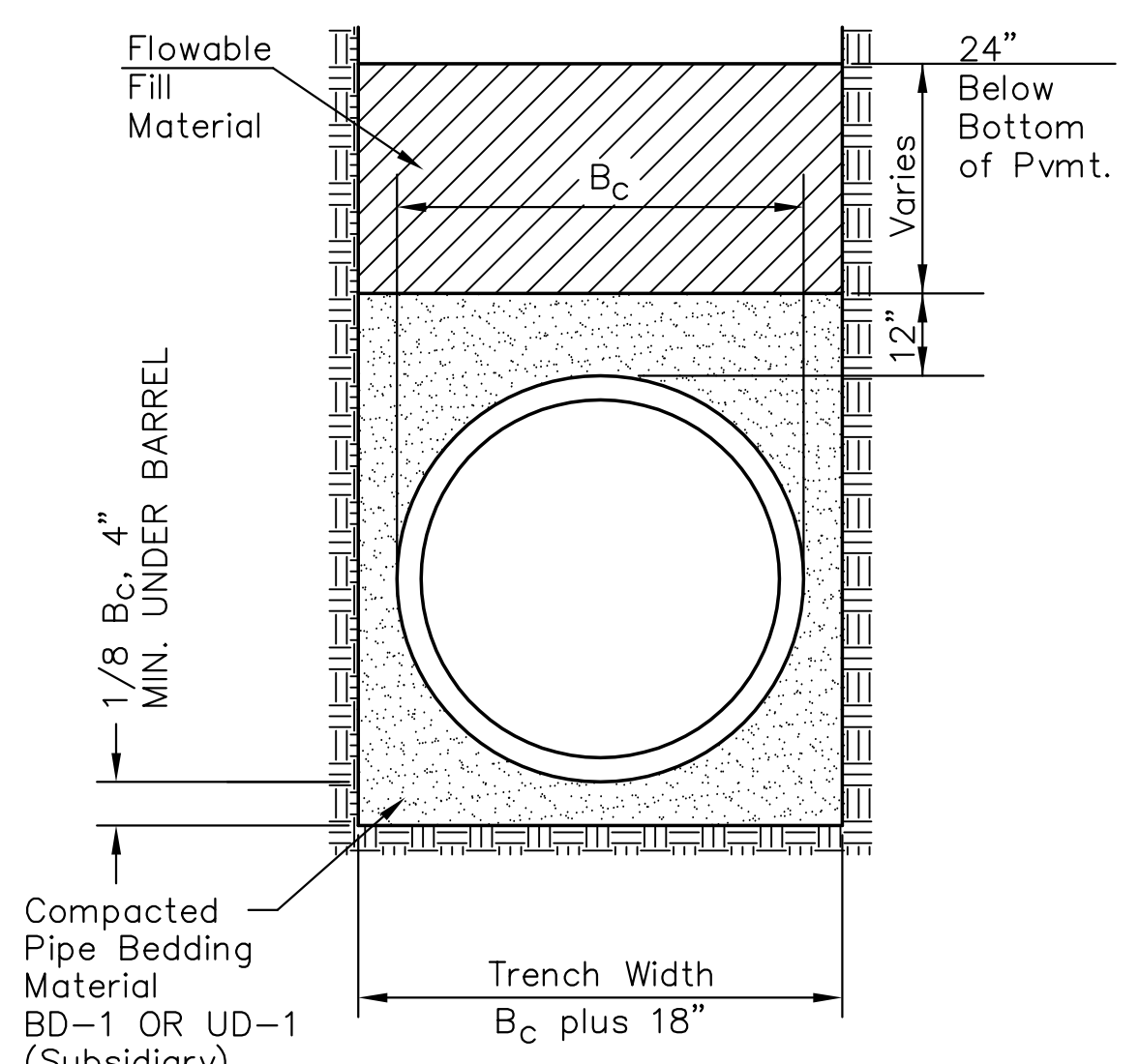


POINT REPAIR PLAN



DETAIL OF OUTSIDE DROP CONSTRUCTED ON MANHOLE

MANHOLE	A	B	C	Sewer Dia.
49+58.21	147.39	142.83	142.73	10"
10+00, Line 1	131.79	125.59	125.39	15"



FLOWABLE FILL DETAIL
(For Sanitary Sewer Pipe)

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KANSAS DEPARTMENT OF TRANSPORTATION

OLIVER IMPROVEMENTS

SANITARY SEWER MISCELLANEOUS DETAILS

PROJECT NO. 87 N-0357-01 SEDGWICK CO.

M K E C ENGINEERING CONSULTANTS, INC.

WICHITA, KANSAS

DESIGNED BY: LAC	CHECKED BY: JRA
DRAWN BY: WNJ	DATE: 4/07/05

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