

TABLE 1 - ENCASEMENT PIPE & SADDLE DIMENSIONS

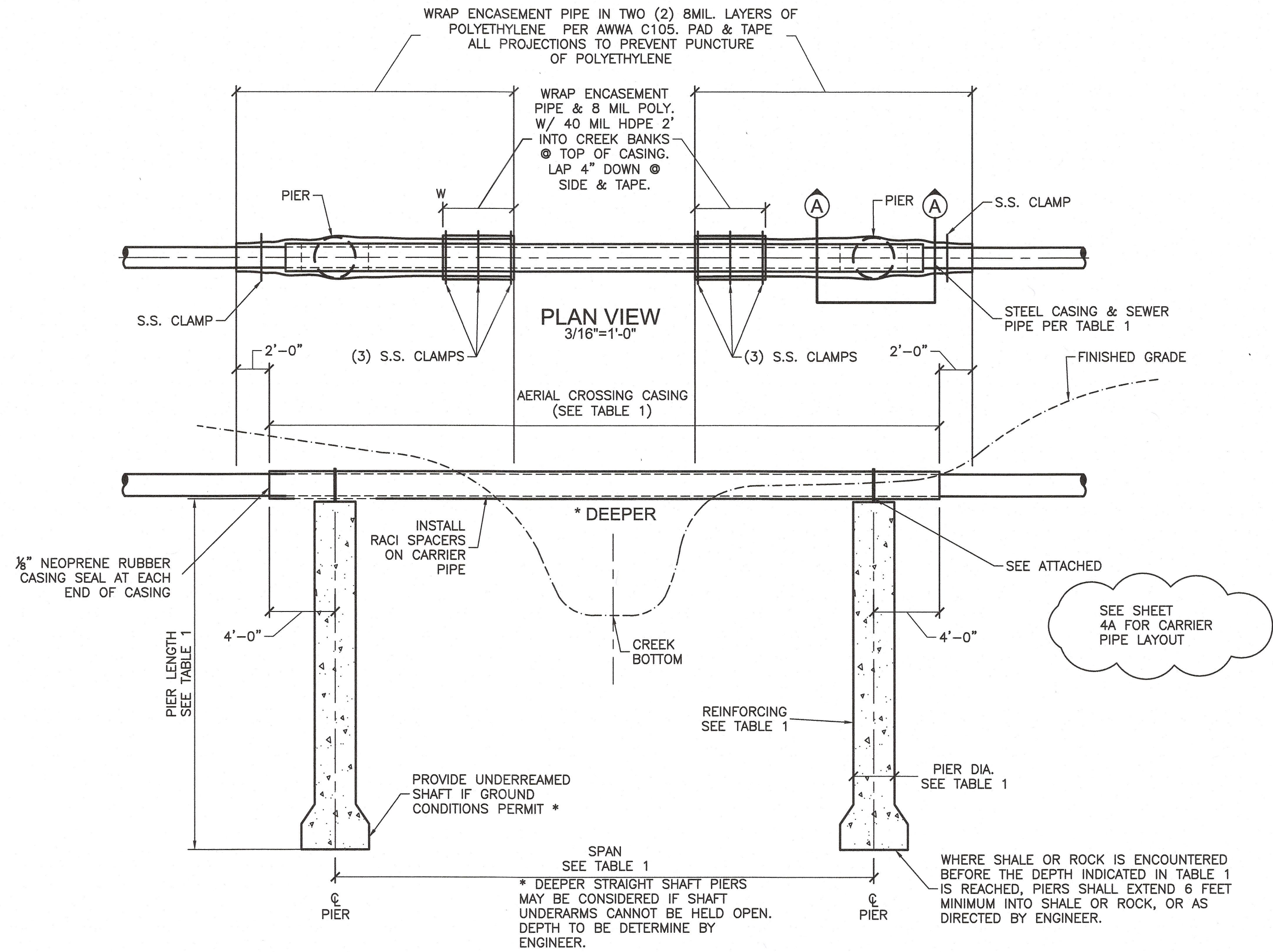
STATION BEGIN CASING *	STATION PIER LOCATION	STATION END CASING *	SPAN (ft)	CARRIER PIPE DIA/MAT	AERIAL CROSSING OD (in)	CASING THICKNESS (in)	REINFORCING PLATE THICKNESS	CASING LENGTH (ft)
							t	
0+02.50	0+41.00	3+02.44	41	12" PVC PRESSURE PIPE DR18	18"	0.500	0.500	282
	0+81.00		40	12" PVC PRESSURE PIPE DR18	18"	0.500	0.500	
	1+21.00		40	12" PVC PRESSURE PIPE DR18	18"	0.500	0.500	
	1+61.00		40	12" PVC PRESSURE PIPE DR18	18"	0.500	0.500	
	2+01.00		40	12" PVC PRESSURE PIPE DR18	18"	0.500	0.500	
	2+41.00		40	12" PVC PRESSURE PIPE DR18	18"	0.500	0.500	
	2+79.00		38	12" PVC PRESSURE PIPE DR18	18"	0.500	0.500	

TABLE 2 - REINFORCEMENT FOR PIERS

STATION	PIER DIAMETER (in)	APPROX. PIER LENGTH ** (ft)	REINFORCEMENT LONG	REINFORCEMENT SPIRAL
0+41.00	24	14	8 - #6	#3 @ 12"
0+81.00	24	15	8 - #6	#3 @ 12"
1+21.00	24	15	8 - #6	#3 @ 12"
1+61.00	24	15	8 - #5	#3 @ 12"
2+01.00	24	15	8 - #5	#3 @ 12"
2+41.00	24	15	8 - #5	#3 @ 12"
2+79.00	24	15	8 - #5	#3 @ 12"

* END CASING ASSUMES 4' Ø MH w/6" WALL THICKNESS (2.5' TOTAL)

** SEE SHEET 4A FOR APPROX. PIER LENGTHS



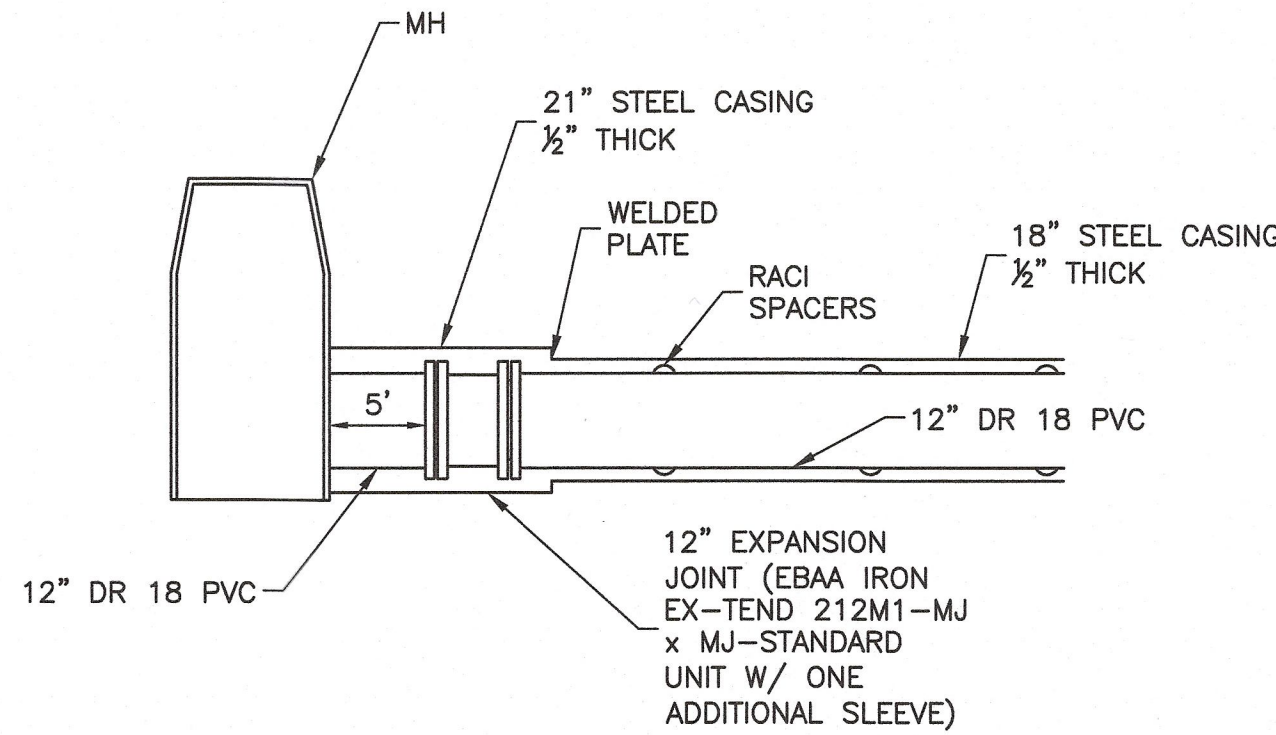
1 SANITARY SEWER AERIAL CROSSING PLAN & PROFILE
3/16"=1'-0"

SPECIFICATIONS

CONCRETE - NCTOG ITEM 702.2 - CLASS C
CONCRETE, 6-SACK MIX DESIGN, 4,000 PSI
AT 28 DAYS

STEEL CASING PIPE - NCTOG ITEM 501.9

DRILLED SHAFTS - NCTOG ITEM 702.7



3 EXPANSION JOINT DETAIL
N.T.S.

- NOTES:
1. ALL PIPE, PLATE, BAR AND STRUCTURAL STEEL TO BE ASTM A-36 OR BETTER.
 2. ALL BOLTS TO BE ASTM 307 & HOT-DIP GALVANIZED PER ASTM A153
 3. ALL WELDING WITH LOW HYDROGEN WELD RODS BY WELDERS WITH CURRENT CERTIFICATION PAPERS
 4. BOLTS SHALL BE TIGHTEN SNUGLY BUT SHALL ALLOW MOVEMENT ALONG PIPE LENGTH

RESPONSIBILITY FOR ADEQUACY OF DESIGN
IN REVIEWING AND RELEASING
PLANS FOR CONSTRUCTION, ASSUMES NO
RESPONSIBILITY FOR ADEQUACY OR ACCURACY
OF DESIGN.

CITY DATE

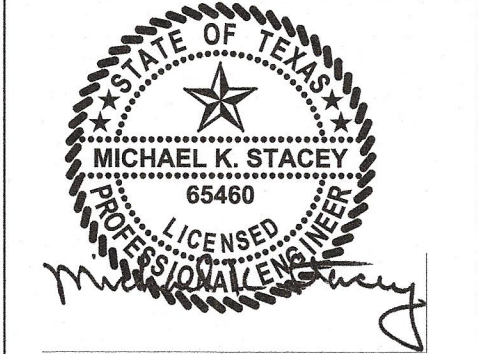
REVISED COLUMN VALUES
8/16/2018

Revision	Date	Description

Owner/Developer:
WHITTLE DEVELOPMENT
P.O. Box 369
Rockwall, Texas 75087
Phone 972.771-5253

Engineer:
FREEMAN-MILLICAN, INC.
ENGINEERS - ARCHITECTS - PLANNERS
12160 N. ABRAMS RD., SUITE 500 DALLAS, TX 75243 PH: 214.503.0565
WWW.FM-DALLAS.COM TEXAS ENGINEERING FIRM REGISTRATION F-2827

The Highlands
City of Rockwall, Rockwall County, Texas



THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY MICHAEL K. STACEY, P.E. NO. 65460 ON 10.03.2018

Sheet Title: AERIAL CROSSING DETAILS

Drawn By: FC CUNY	Checked By: FC CUNY
Date: 05-18	Project No.:
Scale:	Sheet No.: