



NOTES

1. LONGITUDINAL INSTALLATIONS ARE NOT PERMITTED UNDER THE ROADWAY.
2. AS-BUILT LOGS SHALL BE PROVIDED FOR EACH INSTALLATION INDICATING PRODUCT DIAMETER(S), REAMER DIAMETER, BORE LENGTH AND DEPTH OBTAINED AT 5 FOOT INTERVALS FOR CROSSINGS AND AT 10 FOOT INTERVALS ELSEWHERE.
3. DRILLING FLUIDS SHALL CONSIST OF A BENTONITE AND WATER MIXTURE. ANY ADDITIVES SHALL BE APPROVED BY THE ENGINEER AND MUST BE CHEMICALLY INERT, BIODEGRADABLE, AND NON-TOXIC. PETROLEUM-BASED OR DETERGENT ADDITIVES ARE NOT PERMITTED.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO UNDERSTAND AND UTILIZE DRILLING FLUID TECHNOLOGY PROPERLY, INCLUDING TO FORM THE BORE HOLE WITHOUT SURFACE HEAVING, AND WITH LITTLE OR NO FLUID PENETRATION AT THE SURFACE.
5. FINAL BORE HOLE SIZE SHALL BE GRADUALLY ENLARGED USING SEVERAL (ONE OR MORE) PRE-REAMING PASSES, PRIOR TO THE FINAL PULLBACK OF THE PRODUCT PIPES.

PRODUCT DIAMETER	MAX REAMER DIAMETER
LESS THAN 6"	PRODUCT + 2"
8" TO 24"	PRODUCT x 1.5
24" AND LARGER	PRODUCT + 12" MAX

HORIZONTAL DIRECTIONAL DRILLING		
 <p>Public Works Department San Juan County</p>	2015.06.30	STANDARD PLAN 330
RACHEL E. DIETZMAN, PE COUNTY ENGINEER		