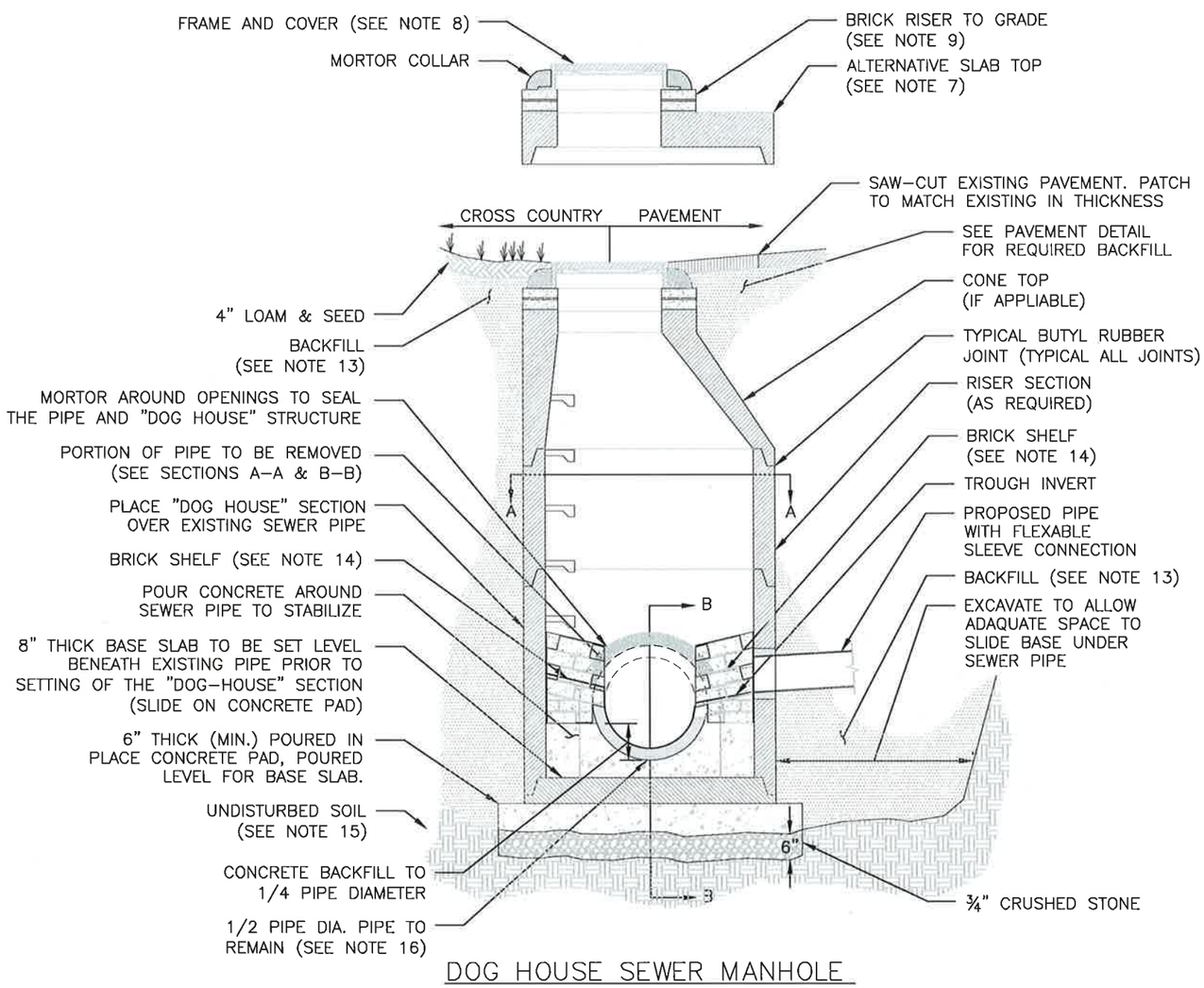
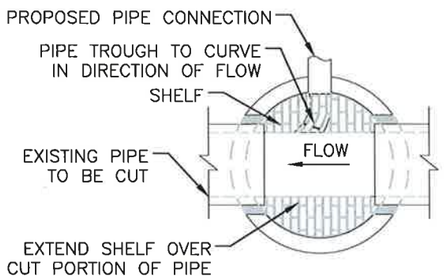
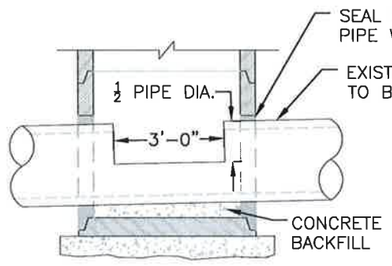


DOG HOUSE SEWER MANHOLE



SECTION A-A



SECTION B-B

1. DROP-OVER MANHOLE SHALL BE SUPPLIED BY MICHIE CORP., OR EQUAL.
2. REINFORCING STEEL SHALL CONFORM TO THE LATEST ASTM SPECIFICATION: 0.12 SQ.IN./LINEAR FT. AND 0.12 SQ.IN. (BOTH WAYS) BASE BOTTOM WITH THE ENTIRE STRUCTURE MEETING OR EXCEEDING H-20 LOADING.
3. CONCRETE COMPRESSIVE STRENGTH - 4000 PSI MINIMUM.
4. TYPICAL SECTION JOINT SHALL BE SEALED WITH BUTYL RUBBER AND SHALL CONFORM TO ASTM C443 SPEC. AND FED SPEC. SS-S-210A.
5. SANITARY MANHOLE DESIGN SPECIFICATIONS SHALL CONFORM TO THE LATEST ASTM C478 SPEC. FOR "PRECAST REINFORCED CONCRETE MANHOLE SECTIONS".
6. ALL PIPING SHALL BE SEALED WITH NEOPRENE BOOT AT THE SEWER MANHOLE/PIPE PENETRATIONS.
7. ALTERNATIVE TOP SLAB IS TO BE STEEL REINFORCED TO MEET OR EXCEED H-20 LOADING.
8. FRAME AND COVER SHALL BE HEAVY DUTY WITH A MINIMUM INSIDE CLEARANCE OF 30" (NORTH AMERICAN FOUNDRY), SUCH AS THE NEENAH R-1754-A OR EQUAL. THE COVER SHALL HAVE THE WORD "SEWER" IN 3-INCH LETTERS CAST INTO THE TOP SURFACE.
9. FRAME IS TO BE ADJUSTED TO GRADE WITH A MINIMUM OF TWO (2) COURSES OF BRICK AND A MAX OF 12" AND SECURED IN PLACE WITH MORTAR.
10. THE 48" DIAMETER MANHOLE SHALL BE RESTRICTED TO PIPES OF 24" IN DIAMETER OR LESS.
11. ALL STRUCTURES SHALL CONFORM TO NHDOT STANDARDS.
12. IF REQUIRED BY THE MUNICIPALITY, STRUCTURES SHALL HAVE STAINLESS STEEL OR PLASTIC COVERED STEEL OR PLASTIC MANHOLE STEPS IN ACCORDANCE WITH NHDES REGULATION Env-Wq 704.10(L).
13. BACK FILL MATERIAL SHALL BE 3" MINUS AND SHALL BE COMPACTED IN 12" LIFTS.
14. <u>INVERTS AND SHELVES:</u> MANHOLES SHALL HAVE A BRICK PAVED SHELF AND INVERT CONSTRUCTED TO CONFORM TO THE SIZE OF PIPE AND FLOW. SHELVES SHALL BE CONSTRUCTED TO THE ELEVATION OF THE HIGHEST PIPE CROWN AND SLOPED TO DRAIN TOWARD THE FLOWING THROUGH CHANNEL. UNDERLAYMENT OF INVERT AND SHELF SHALL CONSIST OF BRICK MASONRY. INVERTS AND SHELVES SHALL BE PLACED AFTER TESTING.
15. MANHOLE STRUCTURE SHALL BE PLACED ON UNDISTURBED SOIL HAVING ADEQUATE BEARING CAPACITY TO PREVENT SETTLING OF THE MANHOLE.
16. SUPPORT SEWER PIPE FROM ABOVE WITH SLINGS DURING ALL PHASES OF CONSTRUCTION. REMOVE SLINGS AFTER CONCRETE BACKFILL WITHIN THE STRUCTURE HAS CURED.

DRAWN BY:	D.K.P.
CHECKED BY:	R.L.
APPROVED BY:	R.L.
SCALE:	AS SHOWN
DATE:	FEB. 2013

TOWN OF MILFORD, NEW HAMPSHIRE
DESIGN SPECIFICATIONS

DOG HOUSE SEWER MANHOLE DETAILS AND NOTES

REV.	DESCRIPTION	DATE

FIGURE: S-XX B