

STANDARD MANHOLE FRAME & GRATE

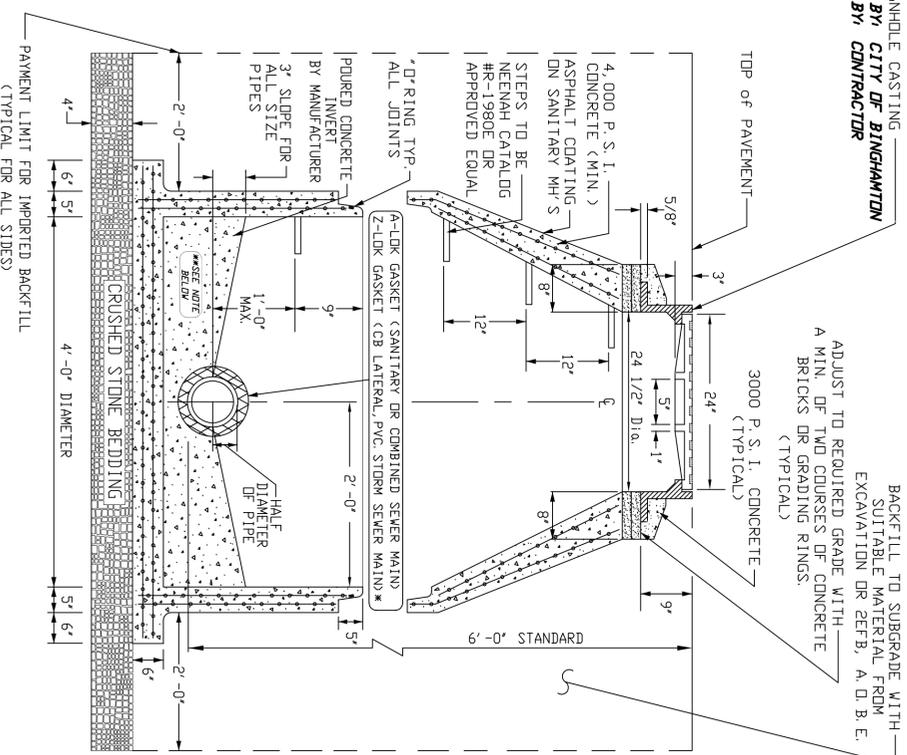
TO BE SUPPLIED BY THE CITY OF BINGHAMTON

NEENAH CASTING R-1713, A. S. T. M. A48-83, CLASS 35
 EU GROUP 1020AGS - SANITARY, 1020A - STORM
 (OR AN APPROVED EQUAL)

NOT TO SCALE

- STORM LID: SOLID PLATEN, TYPE C, REG. SEAT, G1 GLASS 35,
 1 OPEN PICK HOLE, LETTERED "STORM SEWER"
 SANITARY LID: SOLID PLATEN, TYPE B, T-SEAL, 2 F PK, AC,
 G1 GLASS 35, LETTERED "SANITARY SEWER"

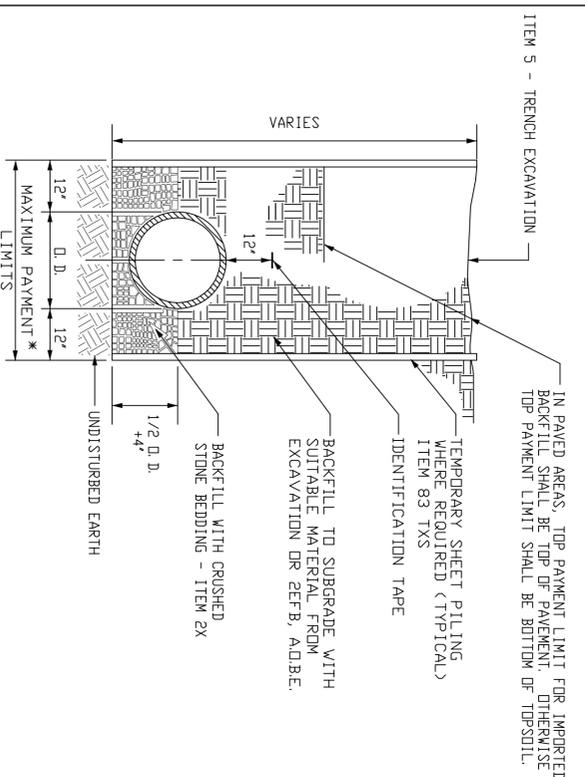
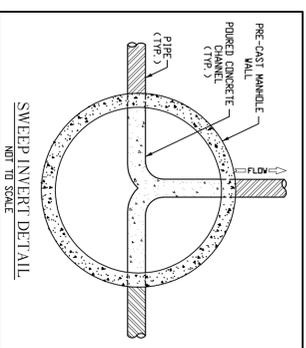
MANHOLE CASTING
SUPPLIED BY CITY OF BINGHAMTON
INSTALLED BY CONTRACTOR



STANDARD MANHOLE - ITEM 202
 CONCENTRIC MANHOLE
 NOT TO SCALE

- * NOTE: Z-LINK GASKETS MAY BE OMITTED IF CONNECTIONS ARE MODIFIED (SEE SPECIFICATIONS).
 ** NOTE: SANITARY SEWER MANHOLES SHALL BE PROVIDED BY MANUFACTURER WITH A POURED CONCRETE INVERT. CHANGES IN PIPE DIRECTION (GREATER THAN OR LESS THAN 180°) SHALL HAVE A POURED CONCRETE SWEEP INVERT (SEE DETAIL).

- NOTES:
 1. PRECAST REINFORCED CONCRETE UNITS SHALL CONFORM TO THE REQUIREMENTS OF A. S. T. M. DESIGNATIONS C-478-78a, PRECAST CONCRETE MANHOLE RISERS AND TOPS.
 2. ALL PRECAST UNITS SHALL BE SET ON A MINIMUM OF 4" CRUSHED STONE BEDDING.

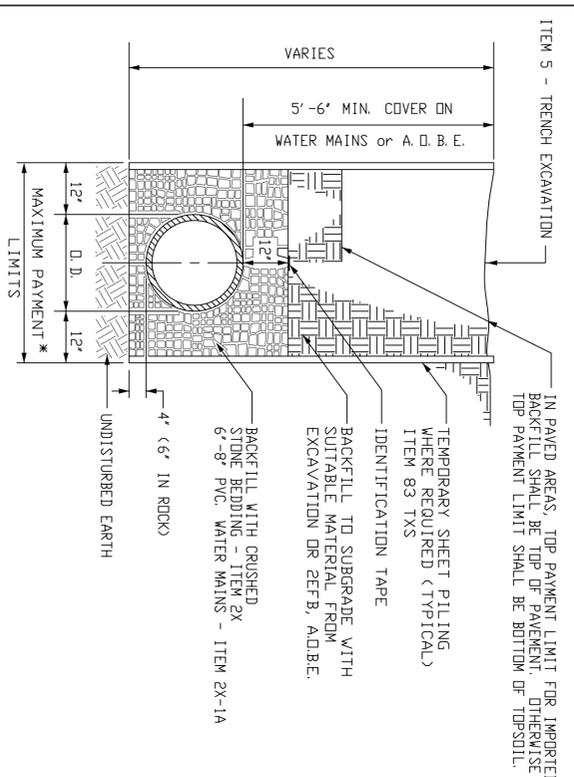


DETAIL

EXCAVATION AND BACKFILL FOR PIPES 24" DIA. AND OVER

NOT TO SCALE

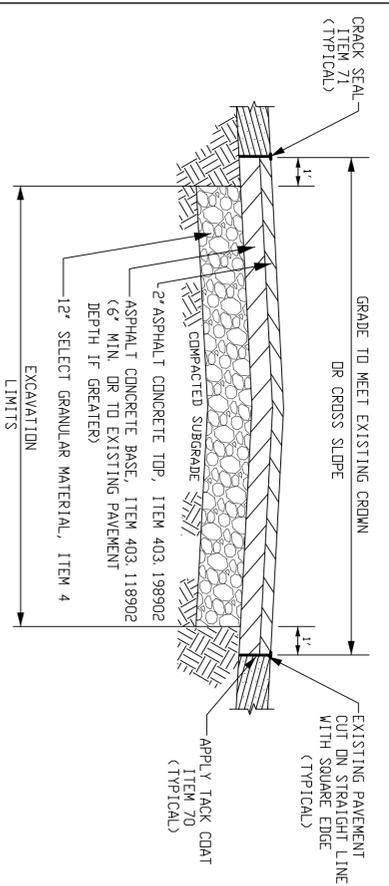
* MAXIMUM PAYMENT LIMIT:
 WHERE USE OF DRAG SHIELD IS REQUIRED TO MEET SAFETY STANDARDS DUE TO DEPTH OF PIPE OR SOIL CONDITIONS, THEN MAXIMUM LIMIT IS TO BE THE OUTSIDE WIDTH OF SHIELD. QUANTITIES TO BE COMPUTED ON THAT WIDTH AS MEASURED BY THE ENGINEER. CONTRACTOR SHALL UTILIZE SMALLEST WIDTH SHIELD THAT IS FEASIBLE.
NO PAYMENT FOR DRAG SHIELD USED BY CONTRACTORS.



DETAIL

EXCAVATION AND BACKFILL FOR PIPES UNDER 24" DIA. AND ALL WATER MAINS

NOT TO SCALE

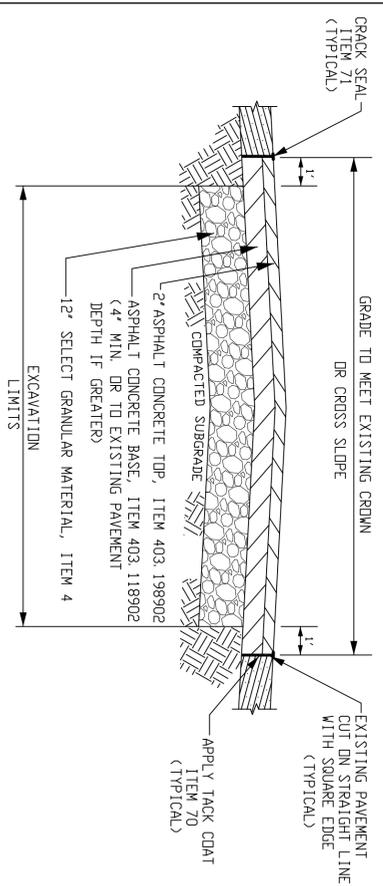


DETAIL

PAVEMENT RESTORATION FOR TRENCH EXCAVATIONS

NOT TO SCALE

PAVEMENT RESTORATION NOTE
 CONTRACTOR SHALL PROVIDE A SMOOTH PAVEMENT FINISH THAT BLENDS INTO THE EXISTING PAVEMENT TO THE SATISFACTION OF THE ENGINEER.



DETAIL

PAVEMENT RESTORATION FOR TRENCH EXCAVATIONS

NOT TO SCALE

MANHOLE, EXCAVATION & RESTORATION STANDARD DETAILS	
DESIGNED: C.O.B.	DATE: MARCH 2004
DRAWN: W.A.R.	CHECKED: D.J.F.
REV. 3/09 PAV'T. RESTORATION NOTE	REV. 3/04 ADD ITEMS 4, 8 & 25FB
REV. 2/08 MH. CASTING SUPPLY NOTE	REV. 6/07 ADD CONC. SWEEP NOTE
REV. 3/04 ADD ITEMS 4, 8 & 25FB	REV. 3/04 ADD ITEMS 4, 8 & 25FB
SCALE: NOTED	SCALE: NOTED
SHEET: 2 OF 8	SHEET: 2 OF 8
DRAWING NO. 2017	
	
Richard C. David, Mayor DEPARTMENT OF ENGINEERING	