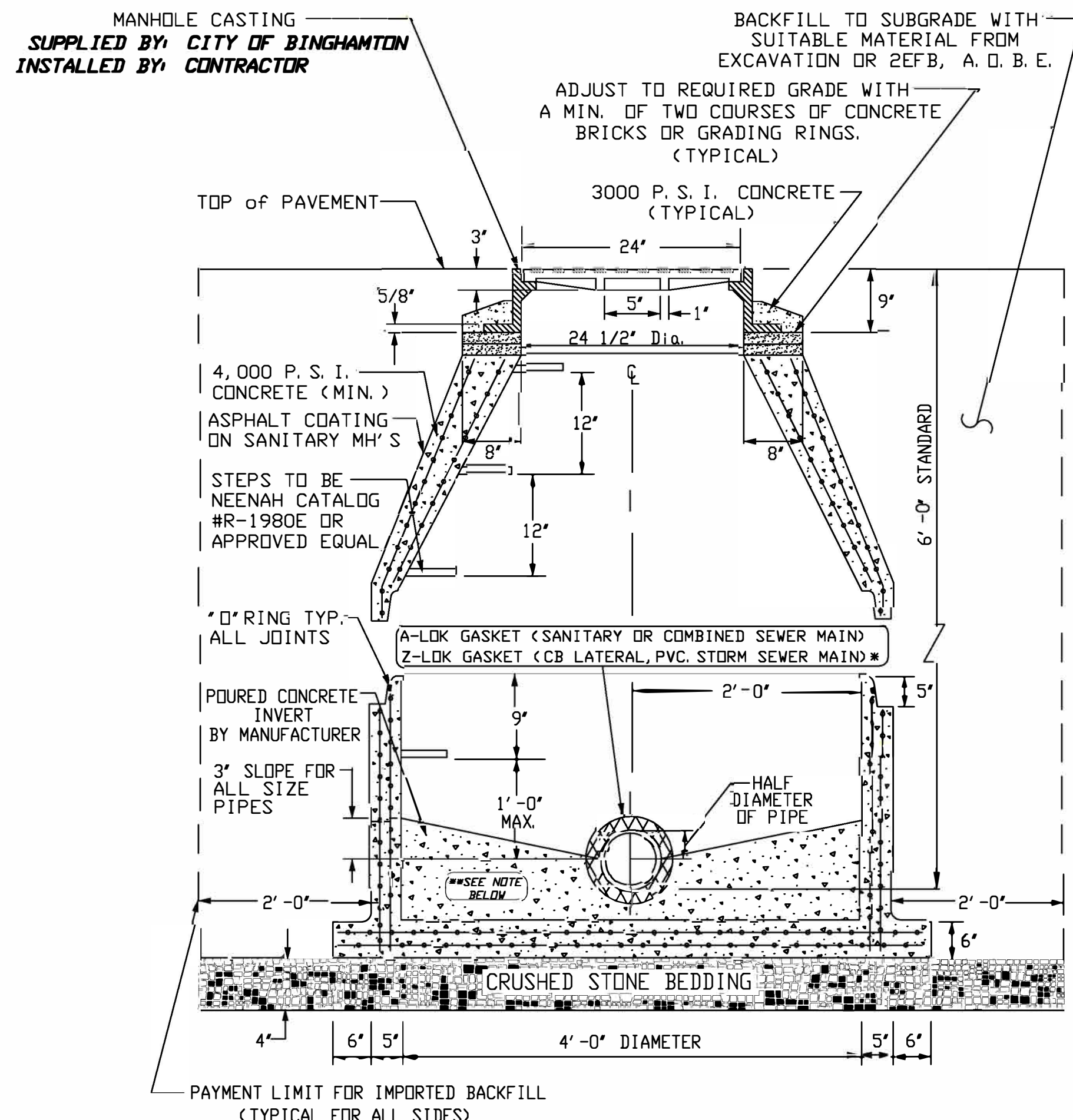


STANDARD MANHOLE FRAME & GRATE

TO BE SUPPLIED BY THE CITY OF BINGHAMTON

NEENAH CASTING R-1713, A. S. T. M. A48-83, CLASS 35
EJ GROUP 1020AGS - SANITARY, 1020A - STORM
(OR AN APPROVED EQUAL)
NOT TO SCALE

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

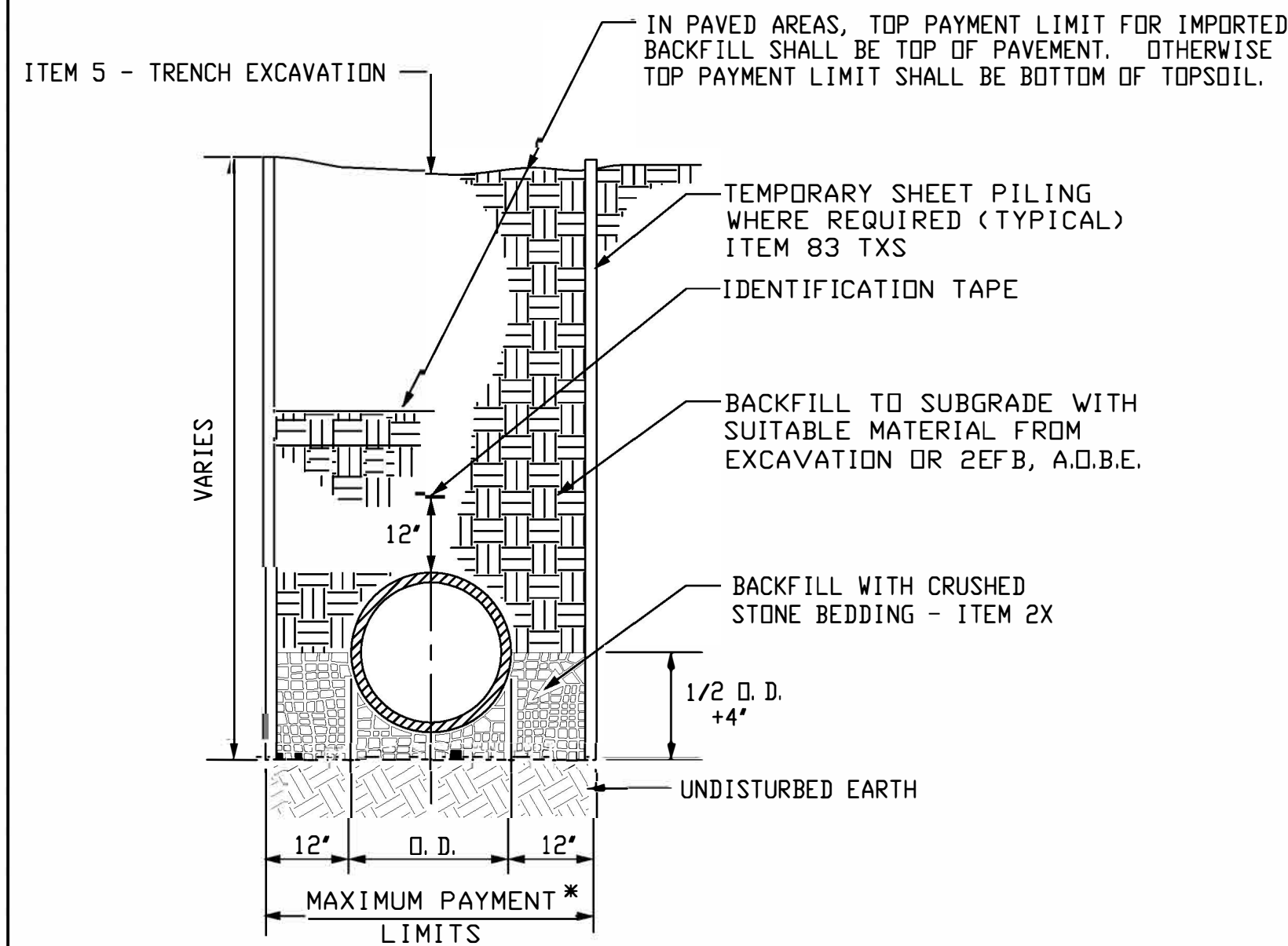
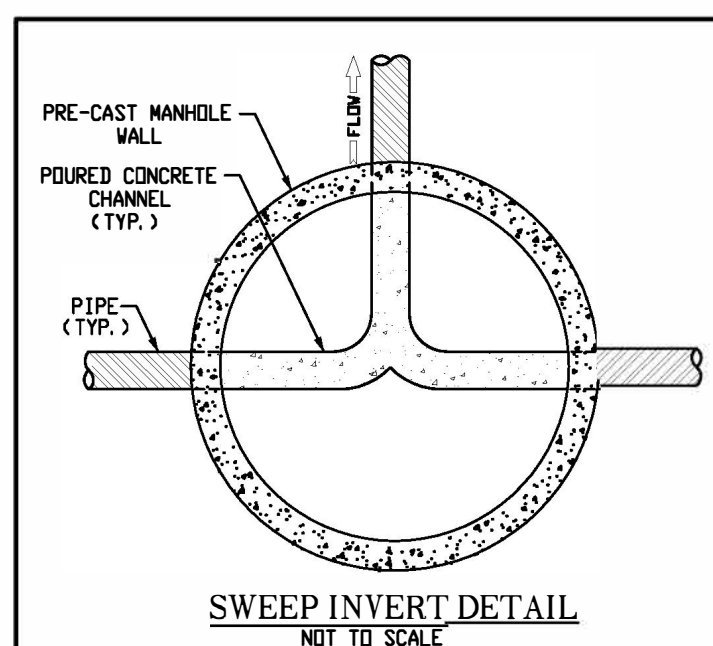


STANDARD MANHOLE - ITEM 202
CONCENTRIC MANHOLE
NOT TO SCALE

- * NOTE: Z-LOK 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).

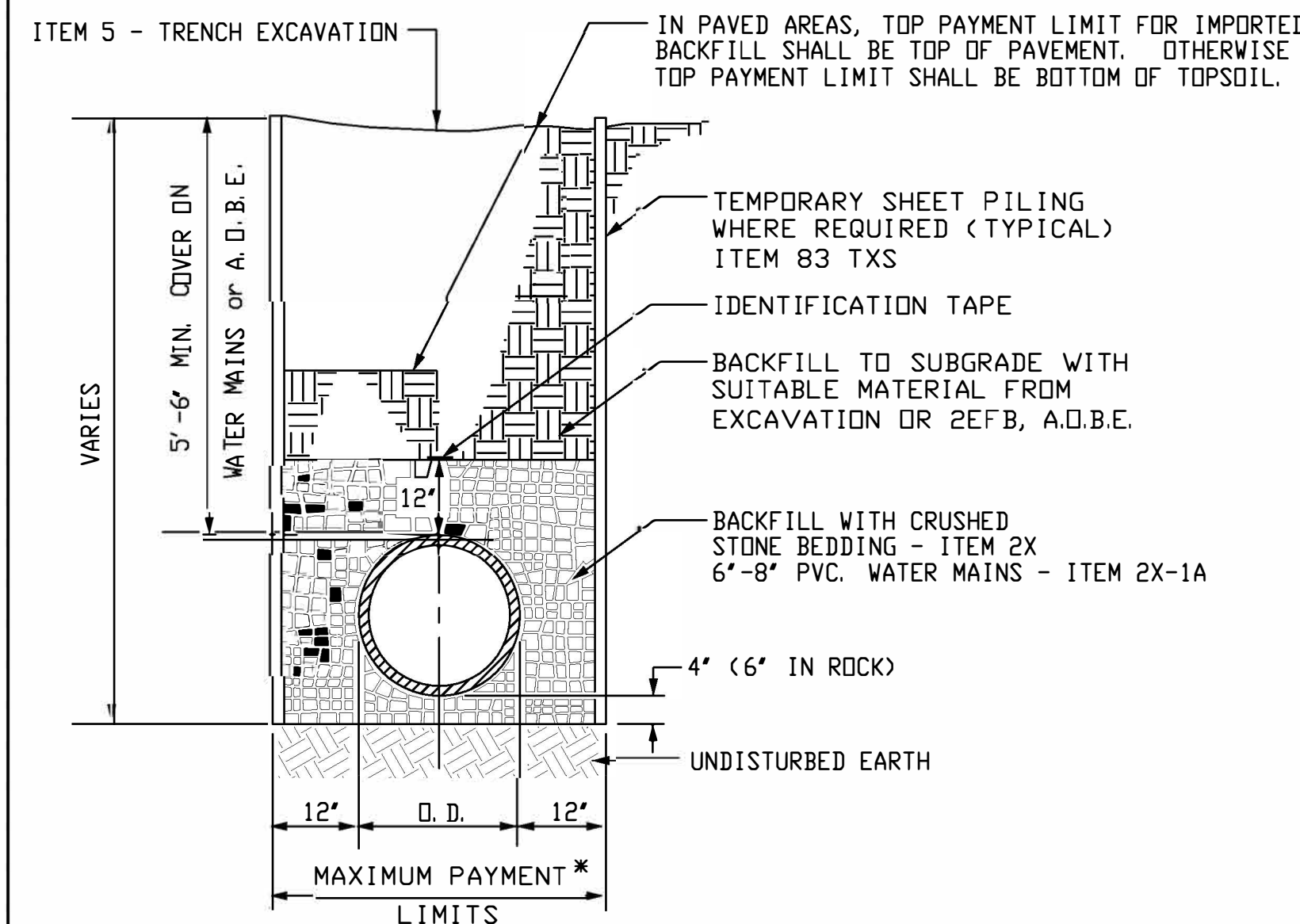
NOTES:

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.

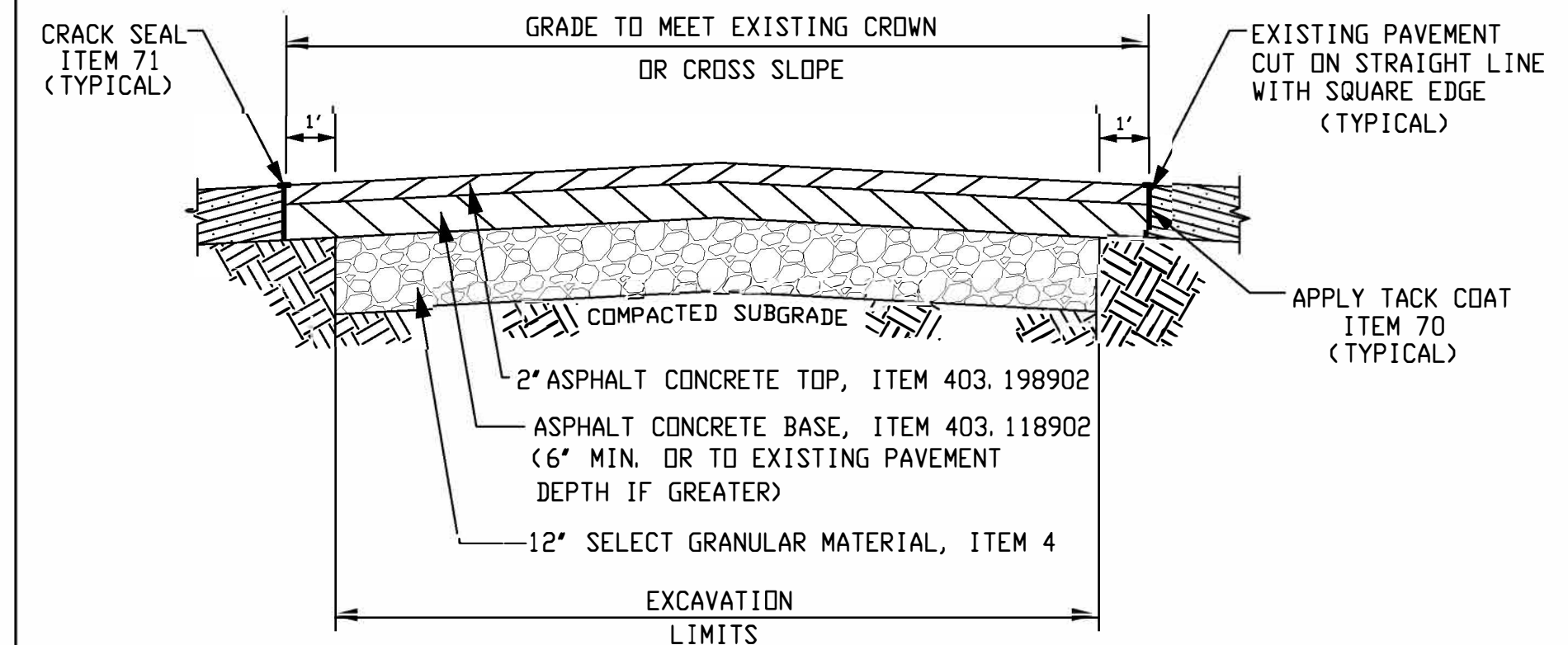


DETAIL
EXCAVATION AND BACKFILL
FOR PIPES 24" DIA. AND OVER
NOT TO SCALE

* 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.



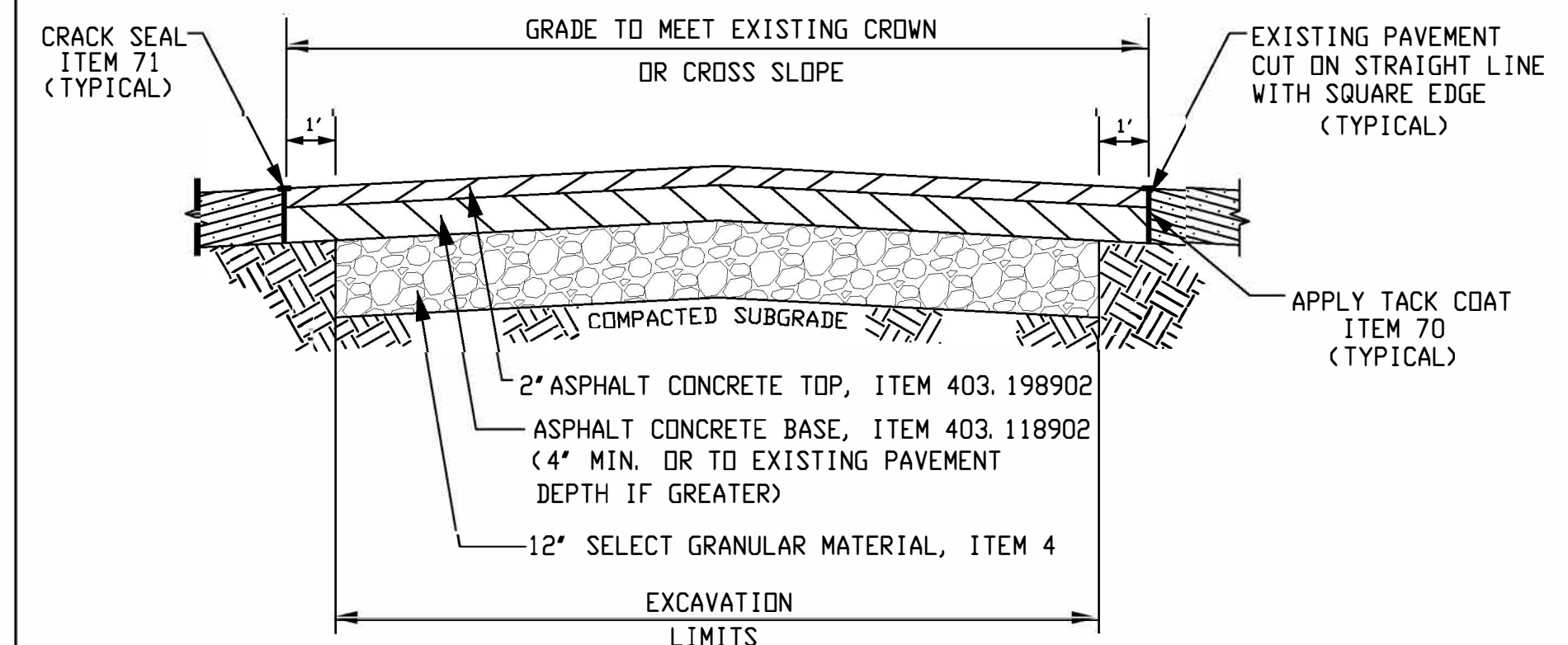
DETAIL
EXCAVATION AND BACKFILL
FOR PIPES UNDER 24" DIA.
AND ALL WATER MAINS
NOT TO SCALE



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

- REV. 3/09 PAV'T. RESTORATION NOTE W.A.R.
- REV. 2/08 MH. CASTING SUPPLY NOTE W.A.R.
- REV. 6/07 ADD CONC. SWEEP NOTE W.A.R.
- REV. 3/04 ADD ITEMS 4, & 2EFB W.A.R.

DATE: _____ REVISION: _____

MANHOLE, EXCAVATION & RESTORATION
STANDARD DETAILS

DESIGNED: C.O.B.	 DEPARTMENT OF ENGINEERING
DRAWN: W.A.R.	
CHECKED: D.J.F.	
DATE: MARCH 2004	
SCALE: NOTED	
SHEET: 2 OF 8	DRAWING NO. 2017