

-NEENAH R-1772 TYPE "B" LID OR EQUAL WITH "WATER" AND "VILLAGE OF LANSING" TO BE CAST IN LID

-FINISHED GRADE

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-PREFORMED NON-HARDENING BUTYL MASTIC

-RETAINER GLAND

- PRECAST INTEGRAL

SEE NOTE 5

--- CA--11

--- 6"(150MM)

PRECAST

APPLY A CONTINUOUS LAYER OF NON-HARDENING, PREFORMED BUTYL MASTIC MATERIAL

102B TO EACH JOINT.

FINISHED GRADE ACTUAL TRENCH BACKFILL WITH FXCAVATED MATERIAL EXCEPT WHERE GRANULAR MATERIAL IS REQUIRED (CA-6) ANGLE OF REPOSE AS CALCULATED BY OSHA FOR SLOPING EXCAVATIONS IN VARIOUS TYPES OF SOIL (AVG. SOIL 1:1 SLOPE). NOTE THAT PORTABLE TRENCH BOXES OR SLIDING TRENCH SHIELDS MAY BE USED IN LIEU OF SLOPING. PROVIDE UNIFORM PIPE SUPPORT: USE CROSS TRENCHES EXCAVATED 2"(50MM) WIDER THAN BELL. OR, SEAT PIPE IN UNIFORM GRANULAR BEDDING MIN 4"(200MM) CA-11 BEDDING WHEN CONDITIONS WARRANT - ROCKY SOIL - TO PROVIDE PIPE SUPPORT IF ENCOUNTERED, REMOVE UNSUITABLE MATERIAL AND REPLACE WITH GRANULAR MATERIAL AS DIRECTED BY THE CITY ENGINEER. TRENCH WIDTH SHALL BE THE MINIMUM REQUIRED IN ORDER TO COMPLY WITH OSHA SAFETY STANDARDS. WATERMAIN EMBEDMENT DETAIL N.T.S.

12" 12" MIN. MIN.

> NOTE: ONE LENGTH OF POLYETHYLENE TUBE FOR EACH LENGTH OF PIPE, OVERLAPPED AT JOINT,

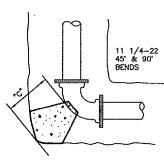


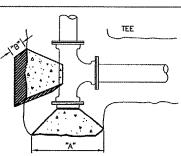




TAKE UP SLACK IN THE TUBE ALONG THE BARREL OF THE PIPE FOLD EXCESS POLY-ETHYLENE BACK OVER THE TOP OF THE PIPE

NOTE: REPAIR ALL SMALL RIPS, TEARS OR

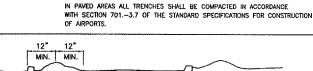




NOTES:

- 1. ALL BENDS, TEES, PLUGS, FITTINGS OR OTHER SIGNIFICANT CHANGES SHALL BE BRACED WITH POURED CONCRETE THRUST BLOCKS AS SHOWN ON THIS DETAIL.
- 3. ALL B & C DIMENSIONS TO BE AS REQUIRED
- 4. ALL POURED CONCRETE SHALL, BE 3500 P.S.I.
- INSTALL PLUGS AT ALL RUNS OR BRANCHES DISCONTINUED FOR FUTURE SERVICE.
- 6. WHEN POURING AGAINST PLUGS AND BLIND FLANGES, SET A PIECE OF 3 MIL PLASTIC AGAINST FITTINGS

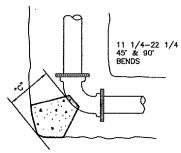
SIZE	90, BEND			45° BEND			22-1/2' BEND			11-1/4° BEND			TEE OR PLUG		
	A	₿	С	Α	В	С	Α	8	С	Α	В	С	Α	8	С
6"	2'~3"	1'-2"	8"	1'3"	1'~2"	8*	0'-8"	1'-2"	8* -	0'~6"	1'~2"	7"	1'-8"	1'2"	8"
8"	3'-7"	1'-4"	9"	2'-3"	1'-4"	9"	1'-4"	1'4"	9"	0'-7"	1'-4"	8"	3'-2"	1'~4"	9*
10"	5'~0"	1'-6"	10"	2'-8"	1'~6"	10"	1'-5"	1"-6"	10"	0'-8"	1'~6"	8"	3'-6"	1'-6"	10"
12"	5'-10"	1'-10'	1'-0"	3'-2"	1'-10"	11"	1'-10"	1'-8"	11"	0'-8"	1'-8"	8*	4'2"	1'-0"	1'-10"

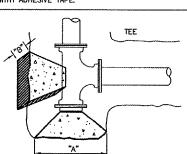


SEVERAL LOCATIONS ALONG THE PIPE BARREL (APPROX

POLYETHYLENE ENCASEMENT

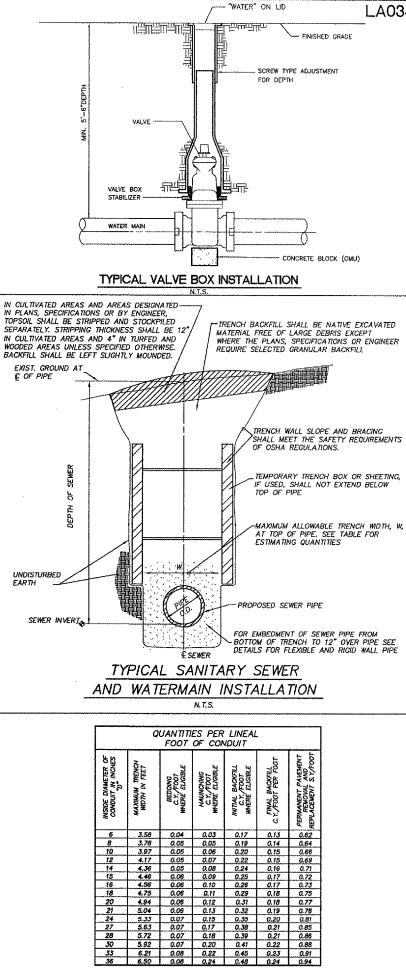
OTHER TUBE DAMAGE WITH ADHESIVE TAPE.





THRUST BLOCK DETAIL

- 2. DIMENSIONS A, B, C APPLY TO ALL BEND CONDITIONS SHOWN.
- TO REACH UNDISTURBED EARTH BUT NOT LESS THAN LISTED ON THRUST BLOCK TABLE.
- TO KEEP CONCRETE OFF BOLTS.



LA034 FILE: waterdtl.dwg UPDATE BY: jobse SURVEY BOOK # XREF DWG: XREF DWG: DATE: Fri 3/26/04 2:56pm

PATH: K:\0329702\sheets\

REVISIONS BY DATE

THIS BAR IS EQUAL TO 2" AT FULL SCALE (34X22).

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DESIGN BY ARM DRAWN BY: JRO CHECKED BY: ARM APPROVED BY: DATE: 03/04/05 JOB No: 03297-02

IL PROJECT: IGQ-3329 A.I.P. PROJECT: 3-17-0121-B21

SHEET 26 OF 50 SHEETS

BASED ON STANDARD DRAWING NO. 2 OF THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS.

TABLE OF QUANTITIES FOR ESTIMATING PURPOSES

TAPPING VALVE AND VAULT

SOLID PRECAST CONC. BLOCK

CONCRETE SUPPORT

(.609M)

5'(1.52M)

N.T.S.

1) NO MORE THAN 12"(300MM) OF ADJUSTING RINGS MAY BE USED: HOWEVER NO MORE THAN ONE 2"(50MM) ADJUSTING RING OR TWO RINGS IN TOTAL MAY BE USED.

2) VALVE SHALL ALIGN WITH THE CENTER OF VAULT OPENINGS.

3) CONES SHALL BE ECCENTRIC.

4) WHEN ADJUSTMENTS ARE NECESSARY, THEY WILL BE PERFORMED WITH A MAXIMUM OF TWO (2) PRECAST CONCRETE RINGS SET IN A BED OF PREFORMED NON-HARDENING MASTIC (SS-102B OR APPROVED EQUAL) TO A MAXIMUM HEIGHT OF 12"(300MM).

(ONE 2"(50MM) RING MAX.)

5) TYLER OR MUELLER CLASS 350 MECHANICAL JOINT WITH MEGALUGS OR EQUAL.
6) TAPPING SLEEVES SHALL BE HEAVY-DUTY STAINLESS STEEL BY MUELLER OR EQUAL.

PRECAST ADJ. RING

TAPPING SLEEVE SEE NOTE 6