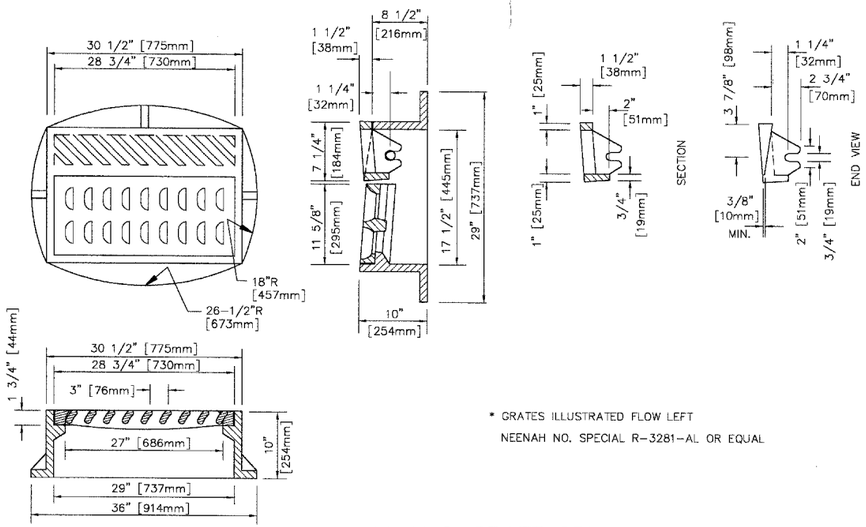
F.A.P. ROUTE	COUNTY SECTION 99-00243-00-PV	COUNTY	TOTAL SHTS.	SH
336	CONTRACT NO. 83782	KANE	268	1
SPECIAL DETAILS				
F.H.W.A. REG.5	ILLINOIS	PROJECT F-0336(0		

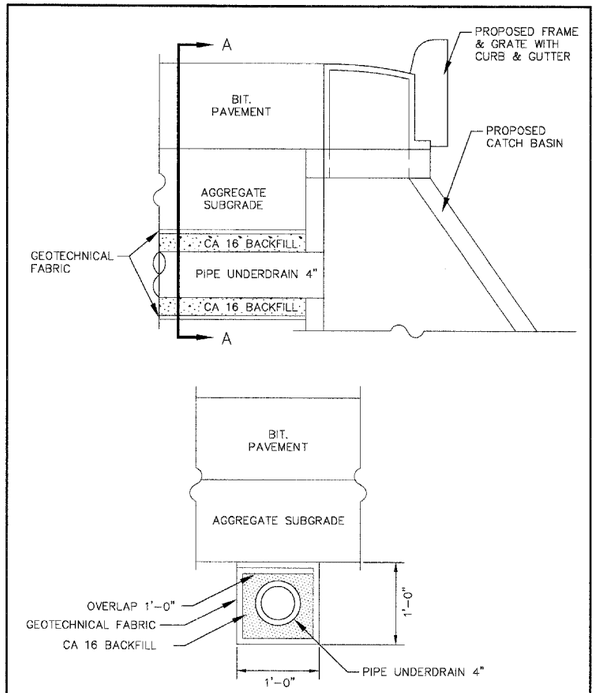


* GRATES ILLUSTRATED FLOW LEFT

NEENAH NO. SPECIAL R-3281-AL OR EQUAL

FRAME & GRATE SPL

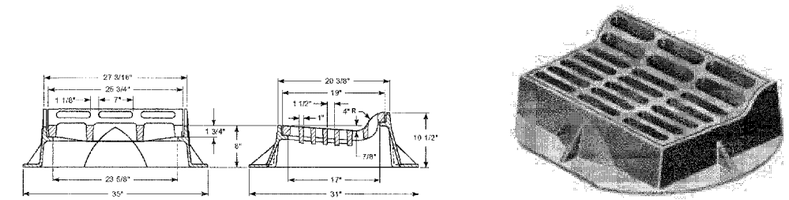
(N.T.S.)



SECTION A-A

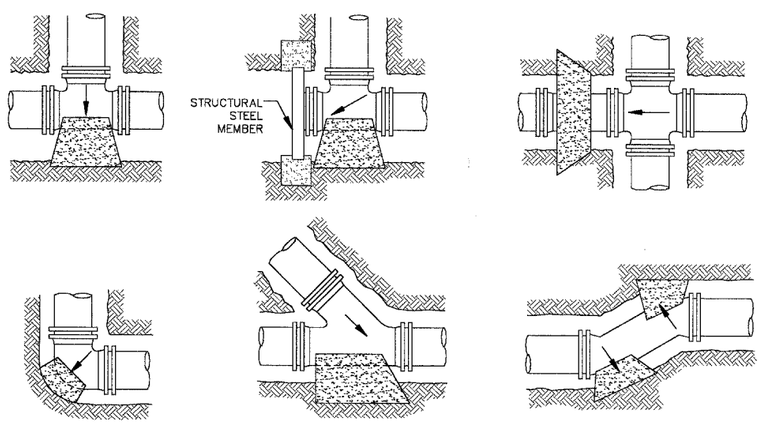
PIPE UNDERDRAIN, 4" DETAIL

(N.T.S.)

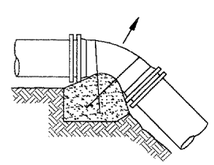


FRAME & GRATE SPL 1

(N.T.S.)



BEARING AREA IN SQ. FT. [SQ. METERS]					
PIPE SIZE	TEE/PLUG	90°	45°	22 1/2°	11 1/4°
6"	4"	2"	1"	1"	1"
8"	6"	4"	3"	1"	1"
10"	7"	5"	3"	2"	1"
12"	8"	6"	4"	3"	2"
14"	12"	9"	6"	4"	3"
16"	15"	12"	7"	5"	3"
18"	18"	15"	9"	5"	4"
24"	40"	30"	15"	10"	5"



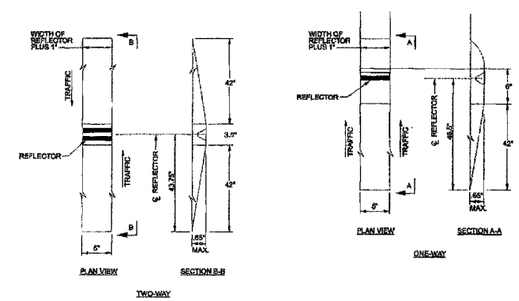
ALL BLOCKING SHALL BE POURED CONCRETE AGAINST UNDISTURBED EARTH.

ALL BENDS OR ELBOWS GREATER THAN 11-1/4° SHALL HAVE THRUST BLOCKING

ALTERNATIVELY, "MEGA-LUG" JOINT RESTRAINTS CAN BE USED WITH APPROVAL OF THE ENGINEER.

THRUST BLOCK INSTALLATION

(N.T.S.)



GENERAL NOTES:

1. Installation shall conform to IDOT Highway Standard 781001-02 (or latest) for marker placement.
2. IDOT Standard 781001-02 shall be modified to reflect recessed pavement markers instead of raised pavement markers.

RECESSED REFLECTIVE PAVEMENT MARKERS

INSTALLATION NOTES:

1. Saw cut to dimensions shown.
2. Sawcut areas to be dry and free of material that adversely affects the adhesive bond.
3. Install the reflector with an approved two-component epoxy adhesive. Epoxy should not obscure or block the lens.
4. Install top of reflector ½ to ¾ inch below the pavement surface.

TYPICAL RECESSED REFLECTIVE PAVEMENT MARKERS

STANDARD KC-781001-03