

CATCH BASINS & INLETS

A. CONSTRUCTION:

- 1) INLETS AND CATCH BASINS MAY BE CAST-IN-PLACE OR PRE-CAST CONCRETE. CAST-IN-PLACE CONCRETE SHALL BE CLASS C. REINFORCED PRE-CAST CONCRETE SHALL BE AS SPECIFIED.
- 2) MINIMUM WALL THICKNESS OF CAST-IN-PLACE INLETS AND BASINS SHALL BE 8". MINIMUM WALL THICKNESS OF PRE-CAST INLETS AND BASINS SHALL BE 6".
- 3) MINIMUM THICKNESS FOR BASES OF INLETS AND BASINS SHALL BE 6", CAST-IN-PLACE AND PRE-CAST.
- 4) CATCHBASINS & INLETS WITH PRE-CAST CONCRETE BASES SHALL BE PLACED ON A COMPACTED GRAVEL BED OF NO. 57 AGGREGATE, HAVING A MINIMUM THICKNESS OF 3".
- 5) BRICK AND CONCRETE BLOCK ARE NOT PERMITTED MATERIALS FOR THE CONSTRUCTION OR MODIFICATION OF INLETS AND CATCH BASINS. USE CONCRETE ADJUSTMENT RINGS OR EJ INFRA-RISERS.
- 6) FRAMES SHALL BE SET EVEN AND FLUSH WITH THE INTERIOR WALLS OF THE INLETS AND BASINS.
- 7) DOUBLE INLETS SHALL BE LOCATED AT ALL SAG VERTICAL CURVES. UNDERDRAINS SHALL DRAIN TO THE SIDES, SOLID PIPE SHALL BE PROVIDED A MINIMUM OF 10' FROM THE WALLS, OR AS DIRECTED BY THE CITY ENGINEER.
- 8) INVERTS SHALL BE FORMED IN ALL INLET AND BASIN STRUCTURES TO PROVIDE POSITIVE FLOW. USE CLASS C CONCRETE TO FORM INVERTS.
- 9) ALL PIPING THROUGH CATCHBASIN WALLS SHALL BE SEALED WITH A CLASS C CONCRETE COLLAR A MIN. OF 6" THICK.

B. CASTINGS:

- 1) APPROVED FRAMES/GRATES FOR BASINS AND INLETS ARE SHOWN BELOW:

STRUCTURE TYPE	EJ			NEENAH		
	FRAME	GRATE	BACK	FRAME	GRATE	CURB BOX
SINGLE CURB INLET (MOD. NO. 3A CB)	7035	M4 M5	T1	R-3246-CL	TYPE V TYPE R	R-3295
DOUBLE CURB INLET (MOD. NO. 3 CB)	7036	M4 M5	T1	R-3246-CL-2 RH R-3246-CL-2 LH	TYPE V TYPE R	R-3295
2-2-A CATCH BASIN (w/ ANGLE FRAME)	5110	M3 (SINUSOIDAL)	X	R-4899	R-4859, TYPE S	X
2-2-B CATCH BASIN IN PAVEMENT	5370	M3 (SINUSOIDAL)	X	R-4810	R-4826, TYPE A	X
2-2-B CATCH BASIN NON-PAVED AREAS	5110	M3 (SINUSOIDAL)	X	R-4899	R-4859, TYPE S	X
FLAT SINGLE INLET, 2'x3', IN PAVEMENT	5245	M1	X	R-3406	TYPE C	X

- 2) ALL GRATES WITHIN THE PAVEMENT SHALL BE BICYCLE-SAFE AND SET CORRECTLY WITH THE DIRECTION OF WATER FLOW.
- 3) THE FRAME AND GRATE SHALL BE FITTED AND FINISHED TO PROVIDE A FIRM AND EVEN SEAT IN THE FRAME.
- 4) BASINS AND INLETS SHALL BE PLACED TRUE TO LINE AND GRADE, PER PLAN.
- 5) THE FRAMES AND GRATES SHALL BE FITTED, MATCHED AND MARKED PRIOR TO DELIVERY TO THE PROJECT.
- 6) ANY SUBSTITUTIONS OF EQUAL QUALITY AND DIMENSIONS SHALL FIRST BE APPROVED BY THE CITY ENGINEER PRIOR TO PROCUREMENT.
- 7) ALL FRAMES AND GRATES SHALL BE COATED WITH A WATERBASED BITUMINOUS COATING, OR EQUAL AND SHALL MEET OR EXCEED AASHTO M306.
- 8) ALL CASTINGS SHALL HAVE THE WORDS "DUMP NO WASTE" AND "DRAINS TO WATERWAY" ALONG WITH A FISH LOGO CAST INTO THE GRATE AND/OR CURB BOX.

C. PAYMENT:

- 1) THE PAVEMENT BLOCK-OUT SHALL BE PLACED AFTER THE CASTING HAS BEEN SET, BUT WILL BE PAID FOR AS THOUGH PART OF THE PAVEMENT.
- 2) NO DEDUCTION SHALL BE MADE IN QUANTITIES OF PAVEMENT BECAUSE OF THE CASTING.

NOTE 1: THIS DETAIL IS VALID ONLY WHEN USED AS PRESENTED HERE, WITHOUT CHANGES, AND IN CONJUNCTION WITH ANY GENERAL NOTES AND/OR OTHER DETAILS WHICH MAY APPLY. ANY CHANGES TO THIS DETAIL SHALL FIRST BE SUBMITTED TO AND APPROVED BY THE CITY ENGINEER.

NOTE 2: BEFORE ANY EXCAVATING, CALL THE FOLLOWING NUMBERS AT LEAST 48 HOURS IN ADVANCE: O.U.P.S. @ (800) 362-2764 AND O.A.G.P.U.P.S. @ (800) 925-0988.

City of Wooster : Division of Engineering

538 N. Market Street Wooster, Ohio 44691
Phone: (330) 263-5236 Fax: (330) 263-5283

Roger Kobilarcsik, P.E.
City Engineer

NO.	DATE	REVISION	7	6/08/05	ADDED B. 7 & 8
1	12/29/00	NOTE A. 9) ADDED	8	9/30/06	REVISED TABLE
2	7/16/01	FRAME/GRATE TABLE REV.	9	10/31/08	ADDED AASHTO M306
3	10/02/01	REV. EJIW CURB BACK NO.	10	7/8/10	REV. NOTE B.3
4	3/1/02	REV. FRAME/GRATE TABLE	11	7/1/12	REV. NOTE A.5, A.7
5	3/29/02	REV. NOTE 9.)	12	01/06/14	REV. NOTE A.4
6	3/06/03	REV. GRATE TABLE			

GENERAL NOTES CATCH BASINS & INLETS

CAD FILE: ENGINEERING STANDARDS\GN-7.DWG				SHEET:	
DRWN BY: RM	APPRVD BY: EPO	ISSUE DATE: 11/08/00	SCALE: NONE		

GN-7.0