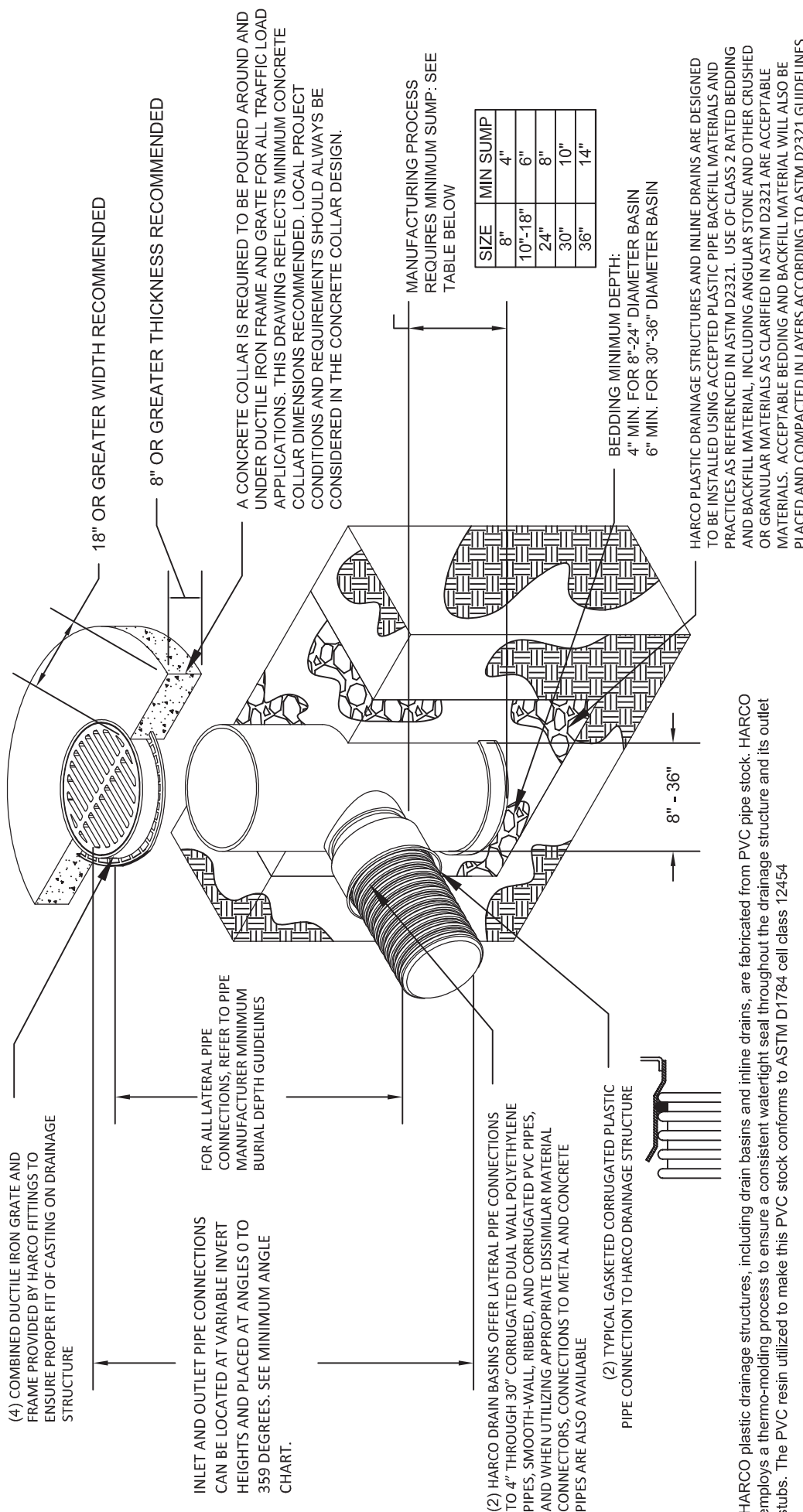


# HARCO DRAIN BASIN STANDARD DETAIL



(4) COMBINED DUCTILE IRON GRATE AND FRAME PROVIDED BY HARCO FITTINGS TO ENSURE PROPER FIT OF CASTING ON DRAINAGE STRUCTURE

INLET AND OUTLET PIPE CONNECTIONS CAN BE LOCATED AT VARIABLE INVERT HEIGHTS AND PLACED AT ANGLES 0 TO 359 DEGREES. SEE MINIMUM ANGLE CHART.

FOR ALL LATERAL PIPE CONNECTIONS, REFER TO PIPE MANUFACTURER'S MINIMUM BURIAL DEPTH GUIDELINES

(2) HARCO DRAIN BASINS OFFERS LATERAL PIPE CONNECTIONS TO 4" THROUGH 30" CORRUGATED DUAL WALL POLYETHYLENE PIPES, SMOOTH-WALL, RIBBED, AND CORRUGATED PVC PIPES, AND WHEN UTILIZING APPROPRIATE DISSIMILAR MATERIAL CONNECTORS, CONNECTIONS TO METAL AND CONCRETE PIPES ARE ALSO AVAILABLE

(2) TYPICAL GASKETED CORRUGATED PLASTIC PIPE CONNECTION TO HARCO DRAINAGE STRUCTURE

MANUFACTURING PROCESS REQUIRES MINIMUM SUMP: SEE TABLE BELOW

SIZE	MIN SUMP
8"	4"
10"-18"	6"
24"	8"
30"	10"
36"	14"

BEDDING MINIMUM DEPTH:  
4" MIN. FOR 8"-24" DIAMETER BASIN  
6" MIN. FOR 30"-36" DIAMETER BASIN

HARCO PLASTIC DRAINAGE STRUCTURES AND INLINE DRAINS ARE DESIGNED TO BE INSTALLED USING ACCEPTED PLASTIC PIPE BACKFILL MATERIALS AND PRACTICES AS REFERENCED IN ASTM D2321. USE OF CLASS 2 RATED BEDDING AND BACKFILL MATERIAL, INCLUDING ANGULAR STONE AND OTHER CRUSHED OR GRANULAR MATERIALS AS CLARIFIED IN ASTM D2321 ARE ACCEPTABLE MATERIALS. ACCEPTABLE BEDDING AND BACKFILL MATERIAL WILL ALSO BE PLACED AND COMPACTED IN LAYERS ACCORDING TO ASTM D2321 GUIDELINES.

1 HARCO plastic drainage structures, including drain basins and inline drains, are fabricated from PVC pipe stock. HARCO employs a thermo-molding process to ensure a consistent watertight seal throughout the drainage structure and its outlet stubs. The PVC resin utilized to make this PVC stock conforms to ASTM D1784 cell class 12454

2 The outlet stubs for HARCO plastic drainage structures are also manufactured from PVC pipe stock utilizing thermo-molding process to ensure a tight pipe-to-structure fit, so that when utilizing the appropriate pipe gaskets, the pipe-to-structure connection meets or exceeds the pressure requirements of the ASTM D3212 standard for pipe connections of plastic drainage pipe and sewer pipe using flexible elastomeric seals. These pipe gaskets must meet ASTM F477 requirements.

3 Riser pipe extensions are required for drain basins taller than 84" due to shipping restrictions, and are available for convenient in-the-field drain basin height adjustments.

4 HARCO grates, covers, and frames shall be constructed of ductile iron meeting ASTM A536 Grade 80-55-06. 12" through 36" round and square hinged standard grates and solid covers meet H25 load rating. 12" through 24" round and square hinged pedestrian grates meet H10 load rating. Traffic family and Curb Inlet 2'x2' and 2'x3' grates meet H25 load rating. 8" and 10" grates and solid covers are one-piece drop-in castings designed for light duty load applications. All domed grates are not load rated.



THE HARRINGTON CORPORATION

TITLE	DRAIN BASIN STANDARD DETAIL	DWG NO	2013-001	REV	001
SCALE	N/A	DATE	2-23-17		
TOL		DWN BY	JBF	CKD BY	JP
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