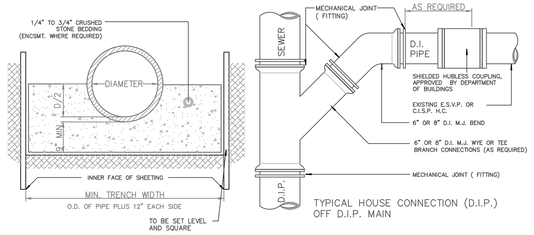
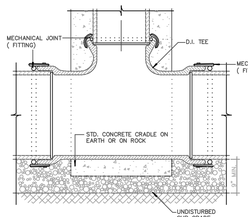
DUCTILE IRON PIPE

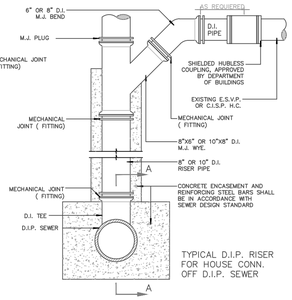
STANDARD FOR DUCTILE IRON PIPE
ALTERNATE



TYPICAL HOUSE CONNECTION (D.I.P.)
OFF D.I.P. MAIN



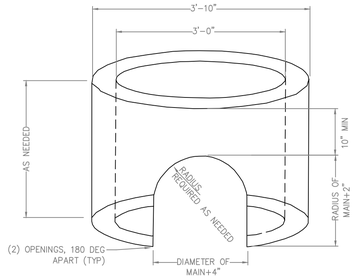
SECTION A–A



TYPICAL D.I.P. RISER
FOR HOUSE CONN.
OFF D.I.P. SEWER

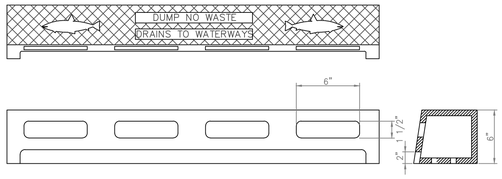
NOTES:
1– THIS ALTERNATE WILL BE PERMITTED ONLY WHEN SO STATED IN THE SPECIFICATIONS.
2– MATERIAL: THE DUCTILE IRON PIPE SHALL BE ED-42-10 GRADE AND CLASS 56. UNLESS OTHERWISE SPECIFIED.
3– JOINTS:
A– ALL JOINTS FOR DUCTILE IRON PIPE SEWER SHALL BE "PUSH-ON" JOINT TYPE, EXCEPT AS NOTED ABOVE FOR SPUR AND RISER.
B– JOINTS SHALL BE MADE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS FOR ASSEMBLING THE TYPE OF JOINT FURNISHED.
C– FITTINGS SHALL BE DUCTILE IRON OR GRAY IRON (250 PSI) MECHANICAL JOINTS IN ACCORDANCE WITH THE LATEST REVISIONS OF ANSI/AWWA C 110/A21.10 AND ANSI/AWWA C111/A21.11.
4– LEVELING BLOCKS ARE NOT PERMITTED.

TYPICAL DETAILS 36" DIA. EXTENSION TO BE USED OVER WATER MAIN VALVES, CAST IRON "SKIRT" AND FRAME AND COVER TO GRADE

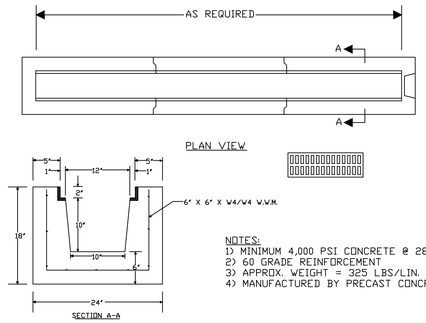


NOTE:
1) CONCRETE STRENGTH, Fc=5,000 PSI
2) REINFORCEMENT SHALL CONFORM TO ASTM A185 SPECIFICATIONS
3) H-20 LIVE LOAD DESIGN

STANDARD FOR NON MOUNTABLE CURB TYPES TYPE "N"



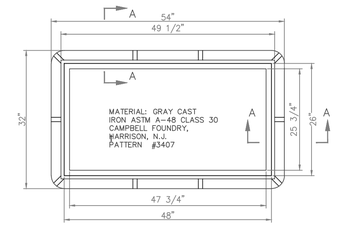
STANDARD FOR PRECAST CONCRETE TRENCH DRAINS



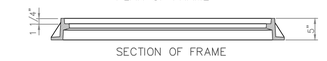
NOTES:
1) MINIMUM 4,000 PSI CONCRETE @ 28 DAYS
2) 60 GRADE REINFORCEMENT
3) APPROX. WEIGHT = 325 LBS/LIN. FT.
4) MANUFACTURED BY PRECAST CONCRETE OR EQUAL

STANDARD CAST IRON FRAME FOR CATCH BASINS AND INLETS WITHOUT CURB PIECE

(TO BE USED WITH TYPE 2)

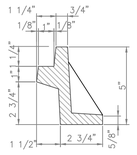


PLAN OF FRAME

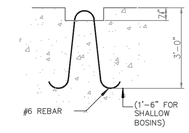


SECTION OF FRAME

STANDARD CATCH BASIN
LIFTING HOOK DETAIL

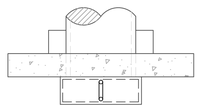


SECTION A–A



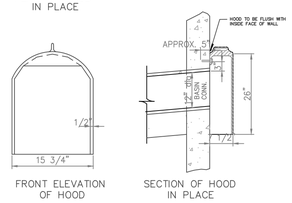
(N.T.S.)
PROVIDE 4 LIFTING HOOKS PER BASIN AT MIDPOINT OF EACH WALL.

STANDARD CAST IRON HOOD AND STAINLESS STEEL HOOKS FOR CATCH BASINS



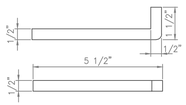
PLAN OF HOOD
IN PLACE

MATERIAL FOR HOOD:
GRAY CAST IRON
ASTM A-48 CLASS 30
AS MANUFACTURED BY
CAMPBELL FOUNDRY,
HARRISON, NJ
PATTERN #2563



FRONT ELEVATION
OF HOOD

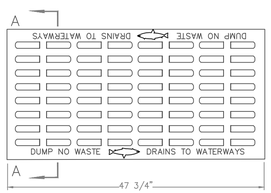
SECTION OF HOOD
IN PLACE



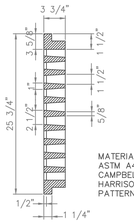
DETAIL OF HOOK FOR HOOD
(2 REQUIRED)

MATERIAL FOR HOOK:
STAINLESS STEEL
1/2 IN. SQUARE BAR
STOCK, 18-8 STAINLESS
STEEL TYPE 303 ASTM
A-582

STANDARD FOR CAST IRON GRATING



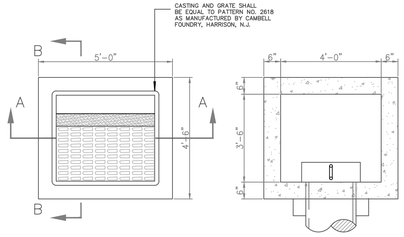
PLAN OF GRATING



MATERIAL: GRAY CAST IRON
ASTM A48-83 CLASS 30 B
CAMPBELL FOUNDRY,
HARRISON, N.J.
PATTERN #2618

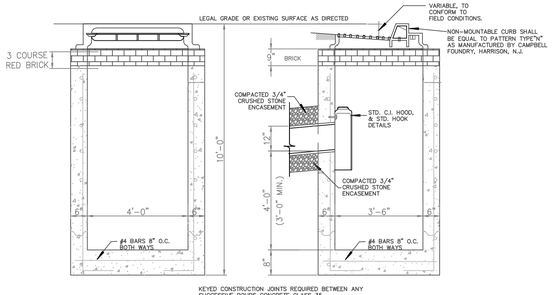
SECTION A–A

STANDARD PRECAST CONCRETE CATCH BASIN WITH CURB PIECE (TYPE 1)



PLAN VIEW
(WITH CASTING)

PLAN VIEW
(WITHOUT CASTING)

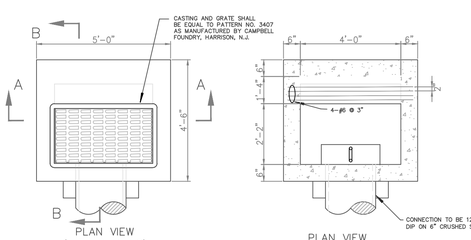


SECTION A–A

SECTION B–B

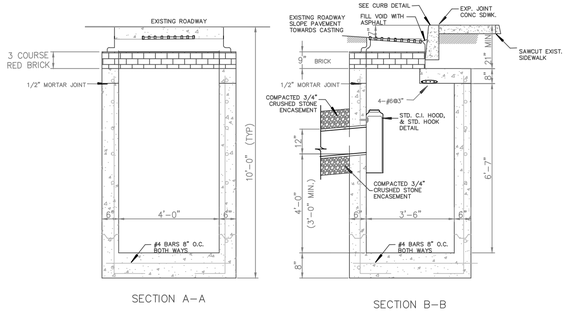
NOTE:
1. LOCATION OF CURB SHALL BE SHOWN AS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. LOCATION AND ANGLE OF BASIN CONNECTION MAY BE VARIED TO SUIT FIELD CONDITIONS.
3. KEYED CONSTRUCTION JOINTS ARE REQUIRED BETWEEN ANY SUCCESSIVE POURS.
4. THE MINIMUM DROP FROM BASIN TO SEWER SHALL BE 6".
5. SOLID RED BRICK ONLY USED FOR THE RISER OVER THE PRECAST SLAB

STANDARD PRECAST CONCRETE CATCH BASIN WITHOUT CURB PIECE (TYPE 2)



PLAN VIEW
(WITH CASTING)

PLAN VIEW
(WITHOUT CASTING)

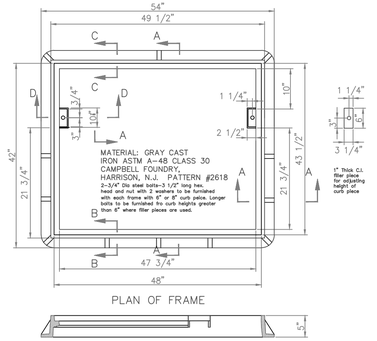


SECTION A–A

SECTION B–B

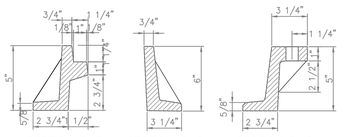
NOTE:
1. LOCATION OF CURB SHALL BE AS SHOWN UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. LOCATION AND ANGLE OF BASIN CONNECTION MAY BE VARIED TO SUIT FIELD CONDITIONS.
3. KEYED CONSTRUCTION JOINTS ARE REQUIRED BETWEEN ANY SUCCESSIVE POURS.
4. THE MINIMUM DROP FROM BASIN TO SEWER SHALL BE 6".
5. SOLID RED BRICK ONLY USED FOR THE RISER OVER THE PRECAST SLAB

STANDARD CAST IRON FRAME FOR CATCH BASINS AND INLETS WITH TYPE "N" CURB PIECE



PLAN OF FRAME

SECTION A–A OF FRAME



SECTION B–B

SECTION C–C

SECTION D–D

IN CHARGE OF: JM
MADE BY: DM
CHECKED BY: JM

UNAUTHORIZED ALTERATION OR ADDITIONS TO THIS MAP IS A VIOLATION OF SECTION 7209 SUB-SECTION 2, OF THE STATE EDUCATION LAW.

CITY OF NEW ROCHELLE
DEPARTMENT OF PUBLIC WORKS

STANDARD DETAILS FOR CONSTRUCTION

PROJECT NUMBER	CONTRACT NUMBER
SHEET NO. 2 OF 3	
SCALE: NTS DATE: 06/02/2016	
DRAWING NO.	REV. NO. 0

S:\Engineering\Marina D\AutoCad\City of New Rochelle Standard Details