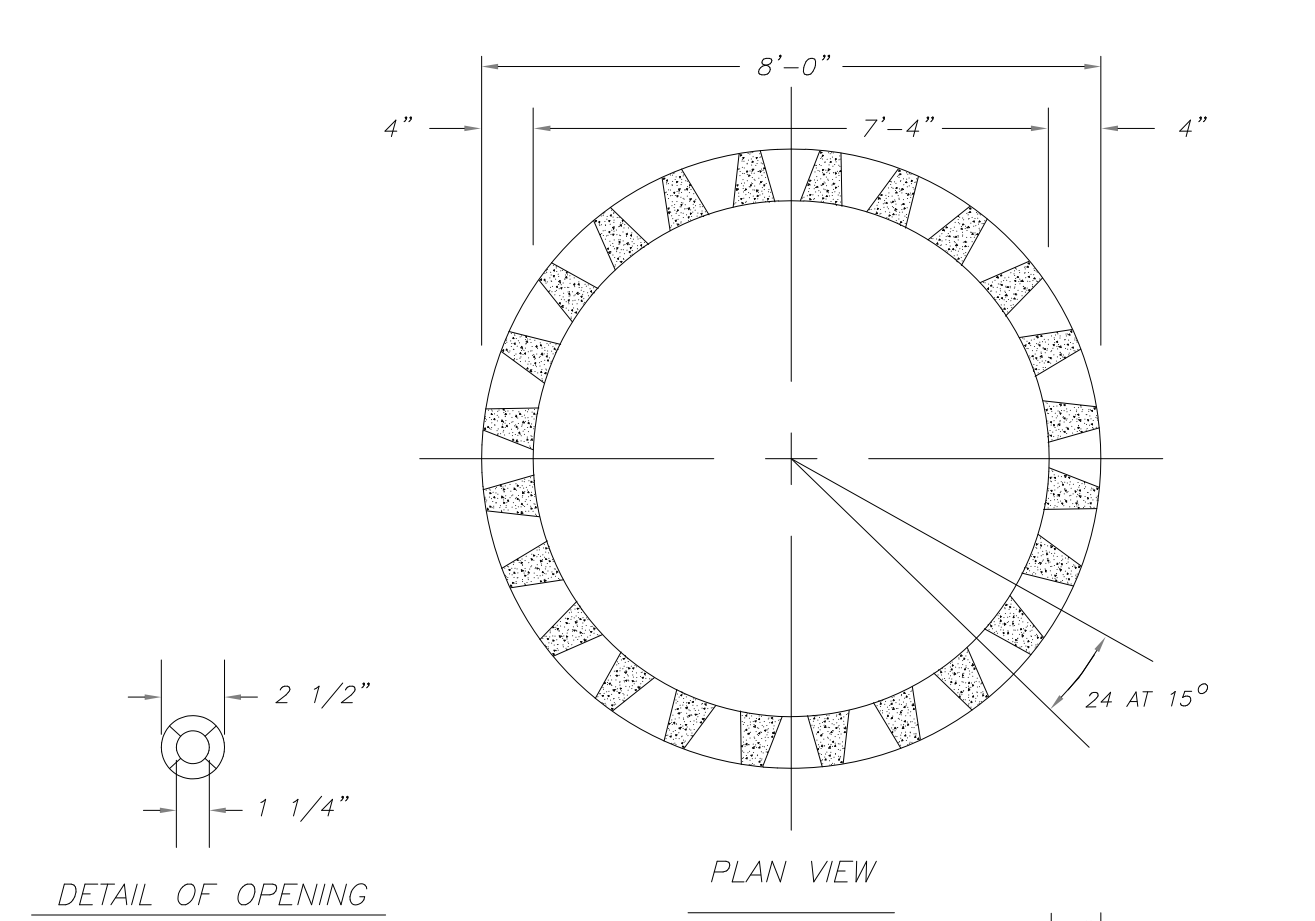


- NOTES:
- SOIL CLASSES AS DEFINED IN ASTM D 2487 AND D 2321.
 - PIPE BEDDING FOR STORM SEWERS SHALL BE CLASS 1 EMBEDMENT MATERIAL OR CLASS 2 OR 3 EMBEDMENT MATERIAL COMPACTED TO 90% STANDARD PROCTOR DENSITY.
 - PIPE BEDDING FOR WATERMAIN SHALL BE CLASS 1 EMBEDMENT MATERIAL OR SAND.
 - PARTICLE SIZE IN THE EMBEDMENT ZONE SHALL NOT EXCEED 2"
 - WHERE UNSUITABLE MATERIAL IS ENCOUNTERED IN TRENCH BOTTOM, UNDERCUT TO SUITABLE MATERIAL.
 - PIPE BEDDING AND BACKFILL IS TO BE IN ACCORDANCE WITH PIPE MANUFACTURER'S INSTALLATION GUIDES AND REQUIREMENTS.

DR#2
N.T.S.
03/24

PIPE BEDDING & BACKFILL DETAIL



SPECIFICATIONS				
RING HEIGHT	LEACH AREA	VOLUME C. F.	VOLUME GALLONS	APPROX. WEIGHT
5'-0"	126	210	1,572	4,500

DR#2
N.T.S.
09/24

8' X 5' DRYWELL DETAIL

LEGEND:

RL PROPOSED 6" PVC ROOF LEADER PER STORM DRAIN DETAILS.

RECHARGE NOTES:

- RECHARGE TRENCHES ARE TO BE LOCATED A MINIMUM OF 8 FEET FROM THE FOUNDATION WITH AN INVERT 1 FOOT LOWER THAN THE BASEMENT FLOOR
- THE SYSTEM COLLECTS AND RECHARGES THE CLEAN RUNOFF FROM THE ROOF. IN THE EVENT THAT THE SYSTEM FAILS AND NO LONGER RECHARGES WATER, THE SYSTEM WILL OVERFLOW OUT OF THE WYE FITTING IN THE ROOF LEADER. RUNOFF WILL THEN FLOW ACROSS THE LAWN AREA WHICH IS STABILIZED WITH GRASS OR OTHER GROUND COVER. THERE SHOULD BE NO CATASTROPHIC FAILURE THAT WOULD CAUSE DAMAGING EROSION DURING NORMAL STORM EVENTS.

RUNOFF CALCULATIONS:
12,880.82 SF (PROPOSED COVERAGE)

0.50 INCH/ 2 HOUR STORM

12,880.82 SF X 0.50 IN X 1 FT/12 INCHES = 536.70 CF REQUIRED

2 PROPOSED DRYWELL = 2 X 1572 GAL = 3144 GAL
2 PROPOSED DRYWELL = 2 X 210 CF = 420 CF

PROPOSED STONE RING & BASE

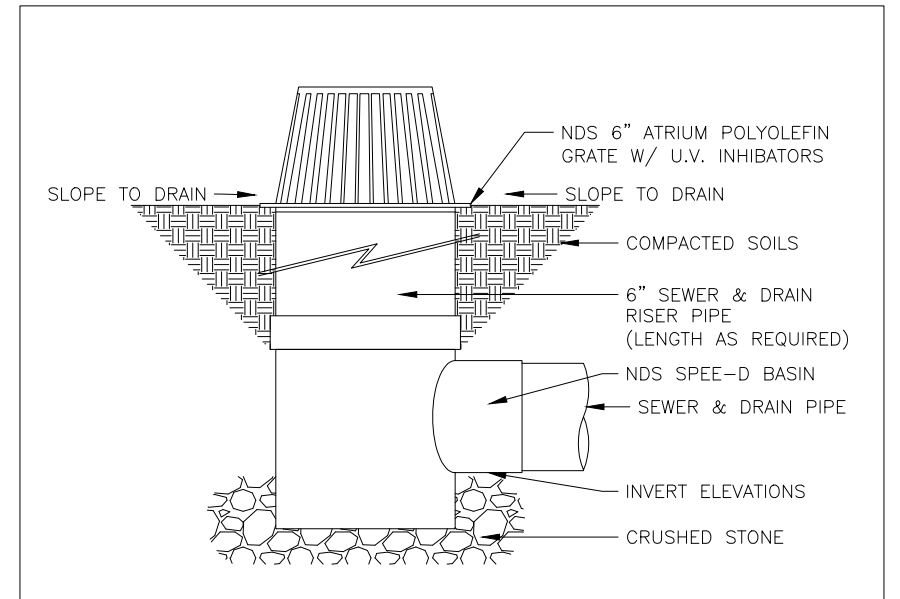
STONE ANNULAR RING VOLUME = $\pi \times (6 \text{ FEET}^2 - 4 \text{ FEET}^2) \times 5 \text{ FEET}$
STONE ANNULAR RING VOLUME = 314.15 CF

STONE BASE AREA = $\pi \times 6 \text{ FEET}^2 = 113.09 \text{ SQ FT}$
STONE BASE VOLUME = 113.09 SQ FT X 0.5 FT = 56.54 CF

TOTAL STONE = 370.69 CF
STONE VOID = 40%

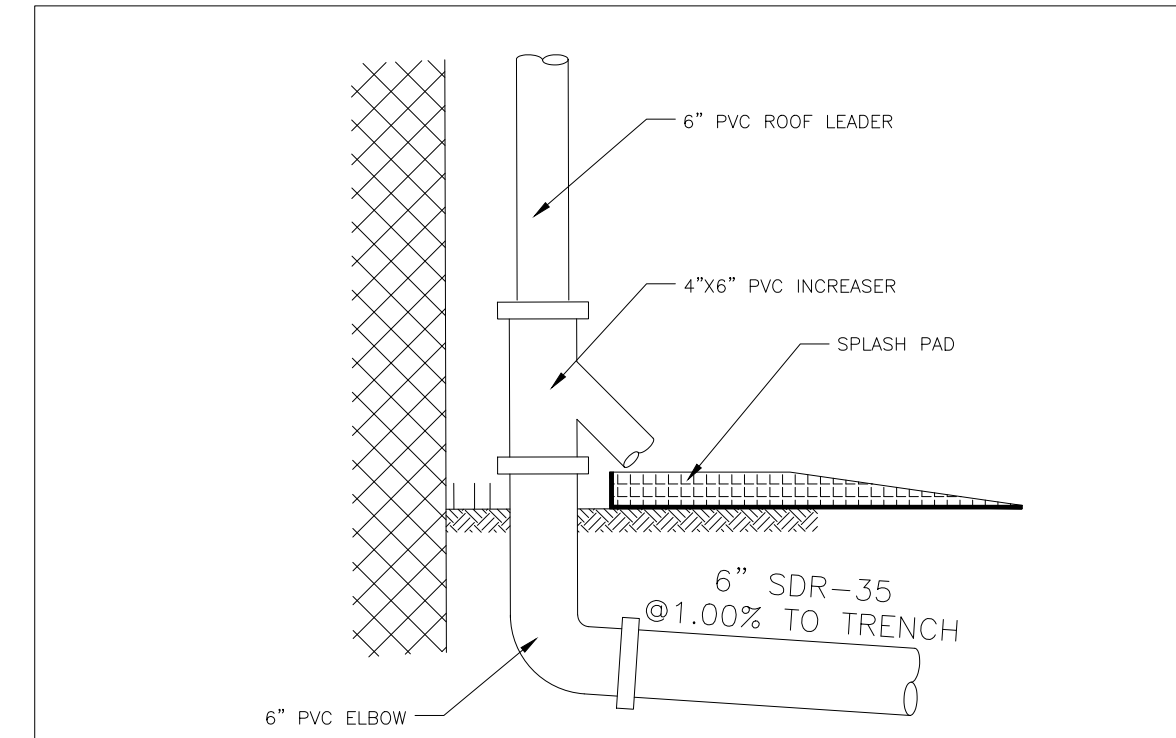
TOTAL DETENTION VOLUME = DRYWELLS + STONE VOID
TOTAL DETENTION VOLUME = 420 CF + 370.69 CF X 0.40
TOTAL DETENTION VOLUME = 564.28 CF

PROVIDED > REQUIRED



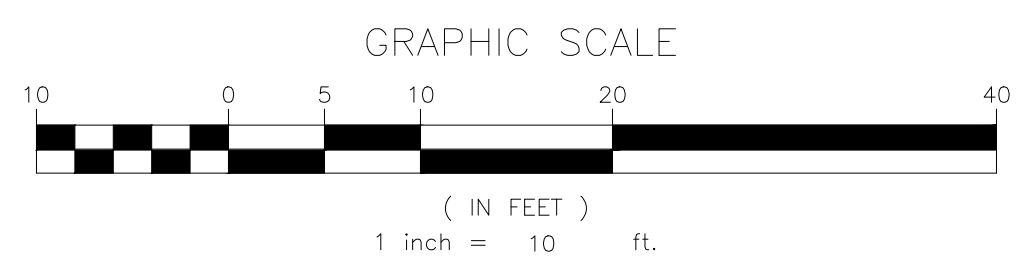
CD# 26
N.T.S.
05/24

ATRIUM GRATE WITH SPEE-D BASIN



CD#6
N.T.S.
03/24

ROOF LEADER DETAIL



NO.	REVISION	DATE	DR/CK

JOSIP MEDIC, PE

379 BROOKFIELD DR.
JACKSON, NJ 08527
LIC. 103757
NY 845-666-0155
NJ 732-523-2289
E-MAIL INFO@TERRANVC.COM

JOSIP MEDIC, P.E. LIC. 103757 DATE **11/08/2024**

DRAINAGE PLAN

DESIGN BY: TB
DRAWN BY: JCS
CHECKED BY: JM

10-12 SAN ANTONIO
10-12 SAN ANTONIO CIRCLE, SOUTH BLOOMING GROVE.
ORANGE COUNTY, NEW YORK 10950
SBL 215-3-48 & 49

DRAWING NUMBER: **04** OF **07**
SCALE: 1"=20'
FILE NO.: 24231
DATE: 09/18/2024



