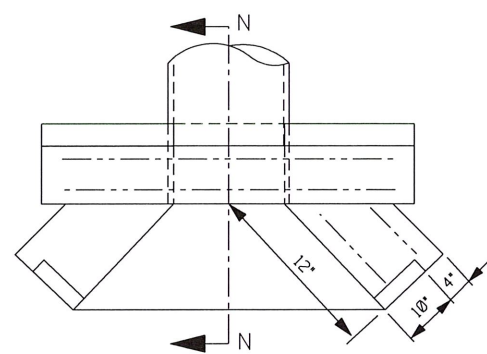
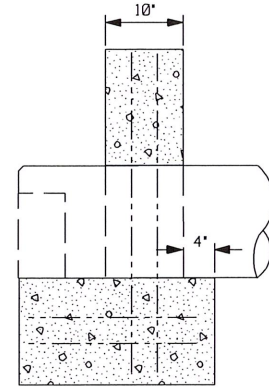


ELEVATION



PLAN

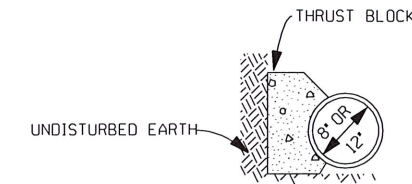
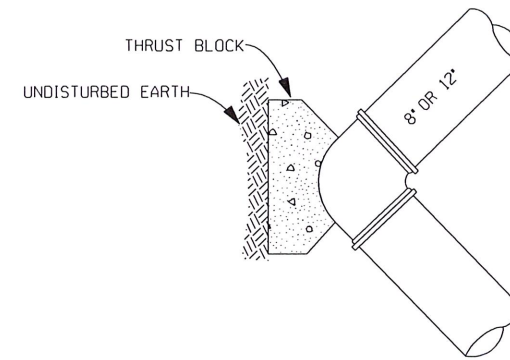


SECTION N-N

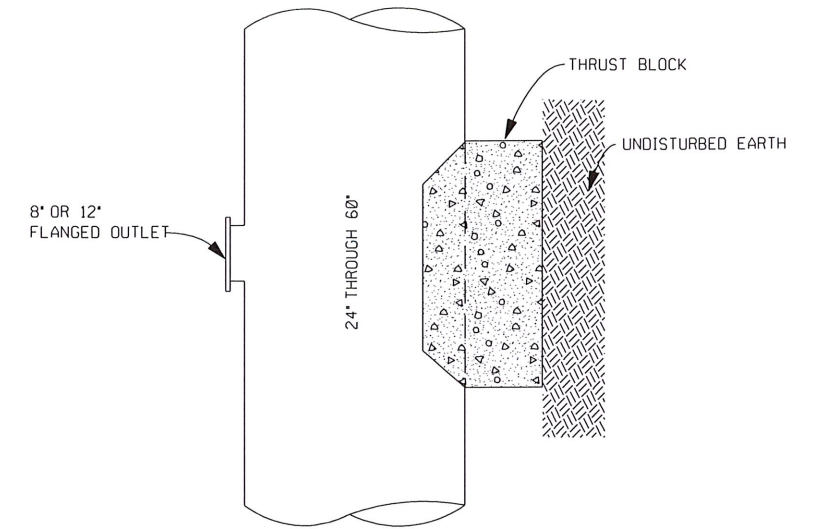
HEADWALL WITH 45<sup>33/64</sup> WINGS

QUANTITIES

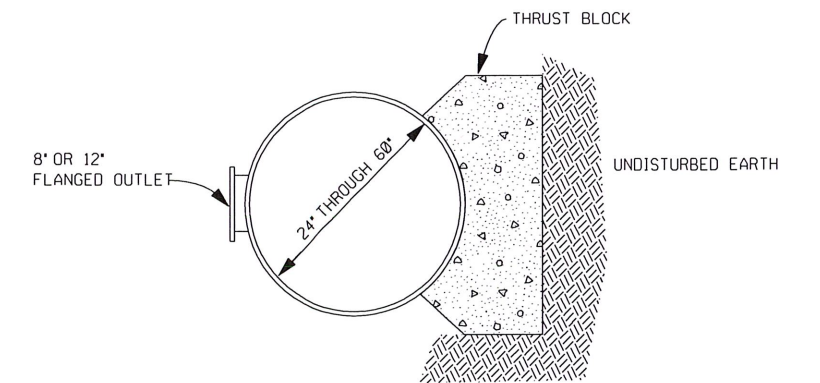
|                   |         |
|-------------------|---------|
| CLASS A CONCRETE  |         |
| WALL              | 5.6 CF  |
| FOOTING AND APRON | 7.4 CF  |
| TOTAL             | 13.0 CF |



8" OR 12" 90<sup>33/64</sup> BEND

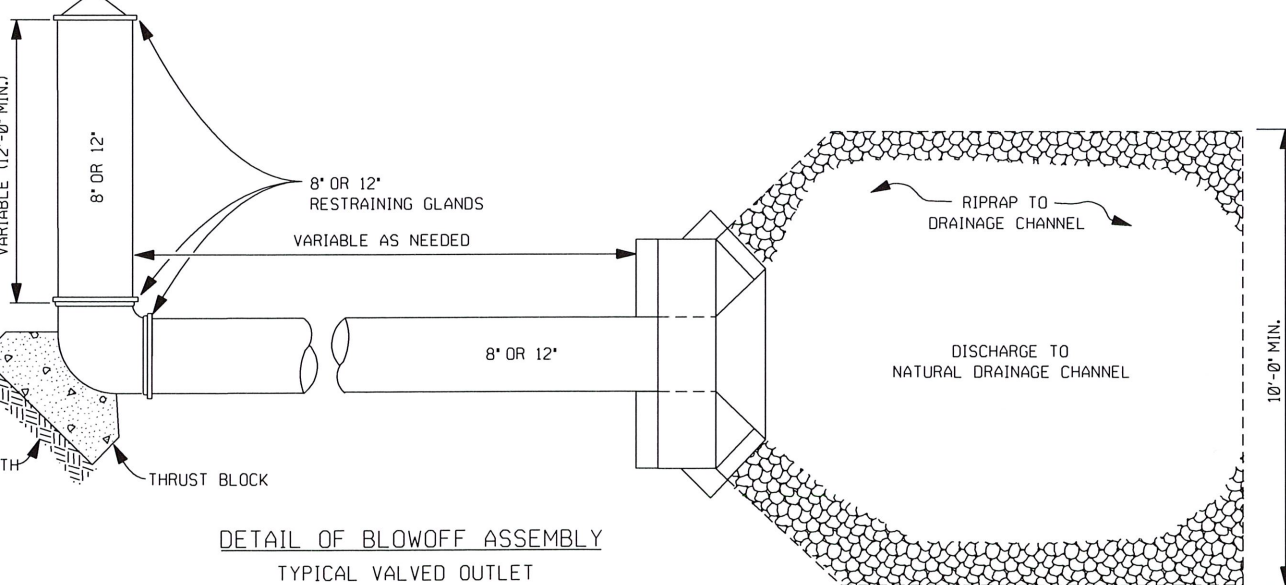
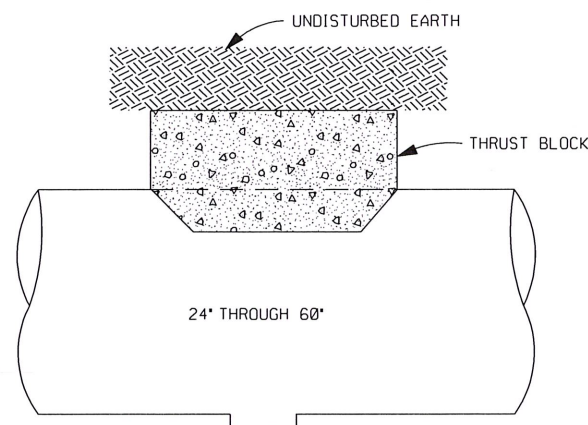


PLAN



ELEVATION

8" OR 12" FLANGED OUTLET  
THRUST BLOCK DETAILS  
TYPICAL



DETAIL OF BLOWOFF ASSEMBLY  
TYPICAL VALVED OUTLET

NOTE:

FOR RIPRAP:

1. STONE SHALL BE QUARRY-RUN STONE FREE FROM OVERBURDEN SPOIL AND NO PIECE SHALL WEIGH MORE THAN 500 POUNDS. AT LEAST 40 PERCENT OF ANY SHIPMENT SHALL CONSIST OF STONES WEIGHING 100 POUNDS OR MORE.
2. STONE SHALL BE GRADED SO AS TO PRODUCE A REASONABLY WELL GRADED MASS OF STONE WITH THE MINIMUM PRACTICABLE PERCENTAGE OF VOIDS. HEADWALL STRUCTURE SHALL BE CONSTRUCTED AT AN ELEVATION LOWER THAN THE MAIN LINE.
3. THE FLANGED OUTLET ON THE MAIN LINE SHALL BE INCLUDED AS PART OF THE BLOWOFF ASSEMBLY.

PATH NAME: /E1/PARTS/STD/DGN.STDS/329-4IN-8IN-BLOWOFF.DGN LFM 05/02/2012

| REVISION | BY | DATE |
|----------|----|------|
|          |    |      |
|          |    |      |
|          |    |      |

*[Signature]*  
CITY ENGINEER

*[Signature]*  
DESIGN MANAGER

CITY OF TULSA, OKLAHOMA  
ENGINEERING SERVICES DEPARTMENT

STANDARD 8" AND 12"  
BLOWOFF ASSEMBLY

DATE: MARCH 2022

STD. 329