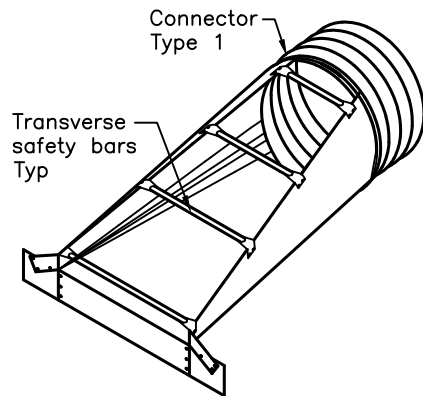
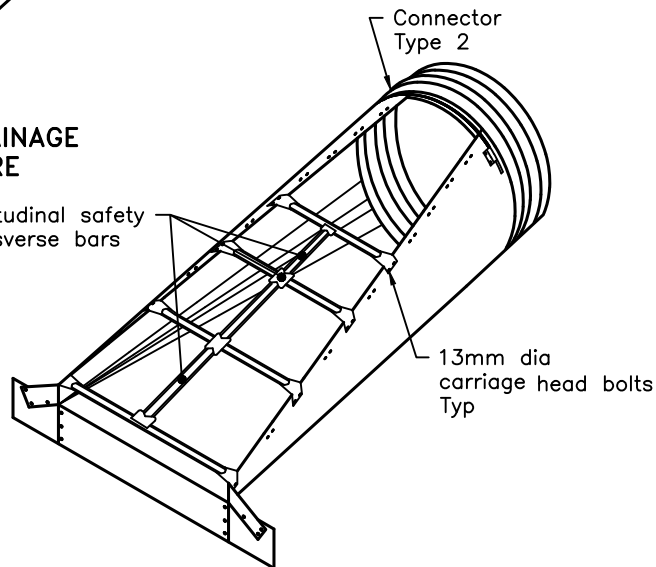


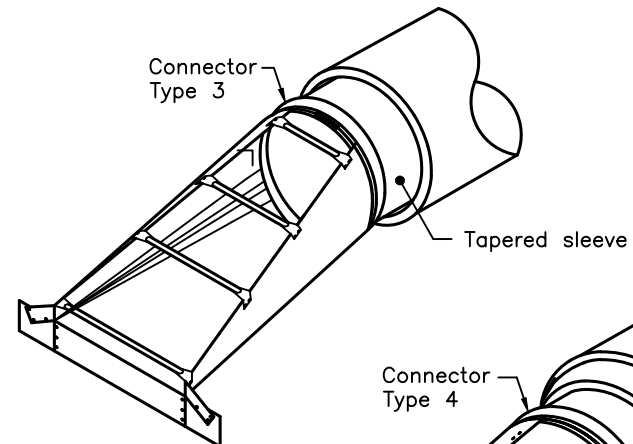


**PARALLEL DRAINAGE
STRUCTURE**

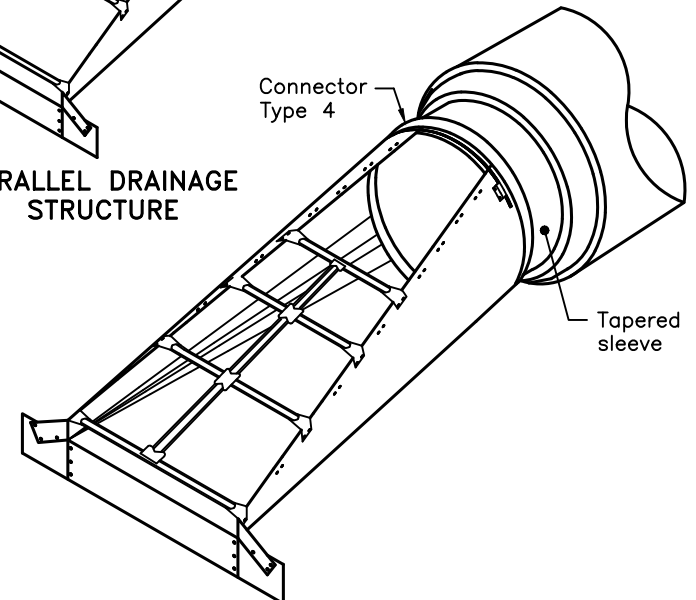
Optional longitudinal safety
bar with transverse bars
Note 1
Typ



**CROSS DRAINAGE STRUCTURE
CIRCULAR AND ARCHED CORRUGATED PIPES**



**PARALLEL DRAINAGE
STRUCTURE**



**CROSS DRAINAGE STRUCTURE
CIRCULAR SMOOTH WALLED
AND ELLIPTICAL PIPES
Concrete Pipe Shown**

NOTES:

1 Longitudinal safety bar required only when span is greater than 750mm.
When the open span of any cross drainage structure is less than 750mm,

no longitudinal safety bars are required. Longitudinal bars shall be welded to the transverse bars to make a single piece structure.

A This OPSD shall be read in conjunction with OPSD 801.040, 801.042, and 801.043.

ONTARIO PROVINCIAL STANDARD DRAWING

**CULVERT AND SEWER
SAFETY SLOPE END TREATMENT
ASSEMBLY DETAILS**

Nov 2024 Rev 4



OPSD 801.041