

# Portland East Side CSO Tunnel

The Portland East Side CSO Tunnel (22 feet dia. X 6 miles long) (6.7 m x 9.6 km) is the largest of all Portland's projects. Final design was completed and shaft construction began in 2006, with scheduled completion by 2011. Seven shafts (49-60 feet dia. and 110-165 feet deep) are built to connect existing overflow pipes to the East Side CSO Tunnel and provide above-ground access. The tunnels will reduce 94% of the CSO after completion.

Shurjoint was specified by the (JV) contractors, Kiewit-Bilfinger-Berger (KBB). The tunnel boring machine (TBM) started boring in May 2007. 1,100 pieces of 14" #R-88 Ring-Joint couplings were used to construct the 350 psi (.500"/12.7 mm wall) coarse slurry discharge. 1,100 - 16" #R-88 couplings will connect the Clean Slurry (Bentonite) piping which lubricates the TBM face.



7 shafts (49 feet-60 feet in diameter (15 m-18 m) x 110 feet-165 feet deep (34 m-50 m) to be built



Eastside Combined Sewer Overflow Tunnel Boring Project – Portland, Oregon, USA

## location

Portland, Oregon, USA



## year

2011

## application

CSO (Combined Sewer Overflow)

## productline

VSH Shurjoint

## architect

Industry

# Portland East Side CSO Tunnel



14 #R-88 Couplings for Coarse (abrasive) Slurry outflow

## location

Portland, Oregon, USA



## year

2011

## application

CSO (Combined Sewer Overflow)

## productline

VSH Shurjoint

## architect

Industry