

* The discharge point of all flared end sections shall be protected by rip rap or other approved means.

** Rip rap shown at flared end sections will be evaluated in the field by the Engineer, Contractor, and City Inspectors after installation for effectiveness and field modified, if necessary to reduce erosion on and off site.

MSD Type 5 Rock Blanket (% By Weight Passing)

Sieve	Maximum	Minimum
12 inch	90	70
6 inch	30	10
1/2 inch	5	0

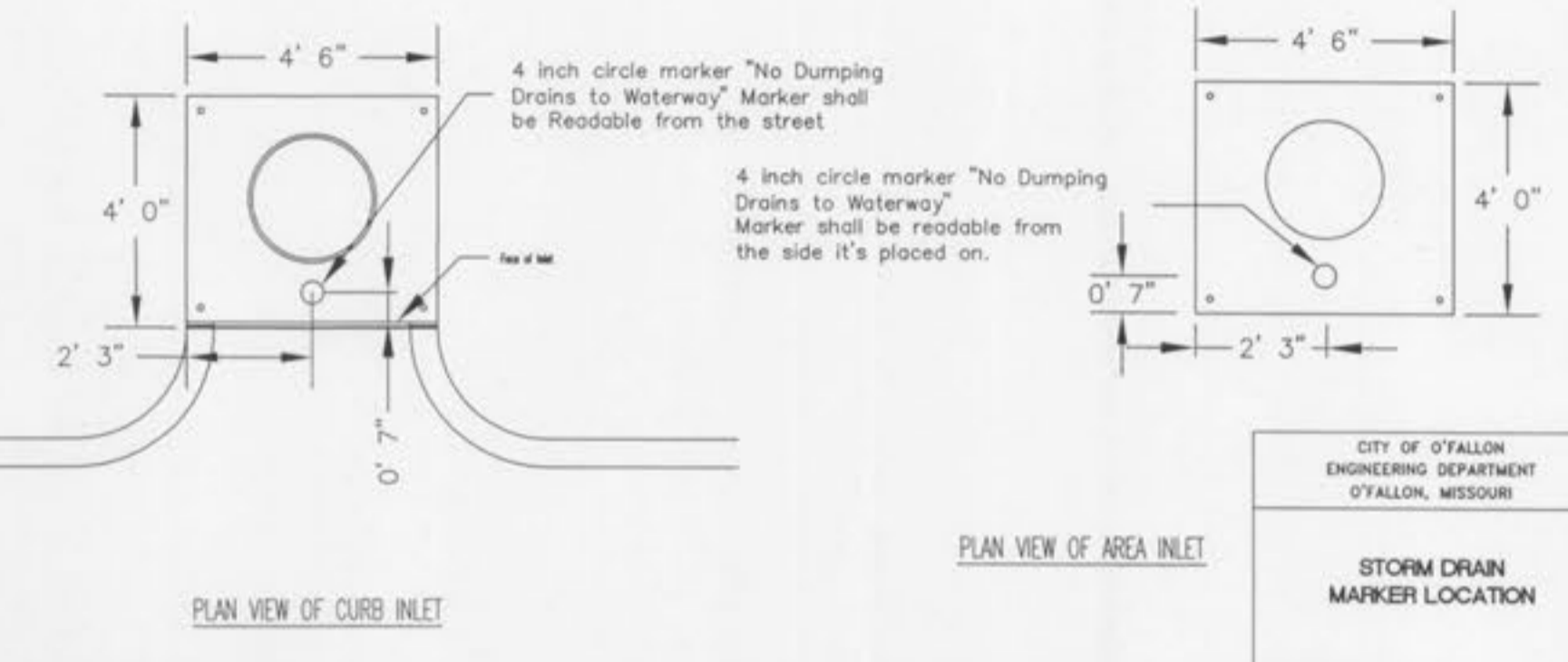
- NOTE:
- To be used of intake and discharge end of pipe. Grade of Rock Blanket to be adjusted accordingly.
 - Woven Geotextile Fabric required under Rock Blanket.

CITY OF O'FALLON
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O'FALLON, MISSOURI

CLASS A UNDERDRAINS

* The City of O'Fallon must be provided with a symbol/medallion for review and approval prior to installation. Contact the City if any information is needed.

Size	Style	Adhesive	Message (Part #)
3 7/8" TO 4"	Crystal Cap or Standard Style	Epoxy	No Dumping Drains to Waterway

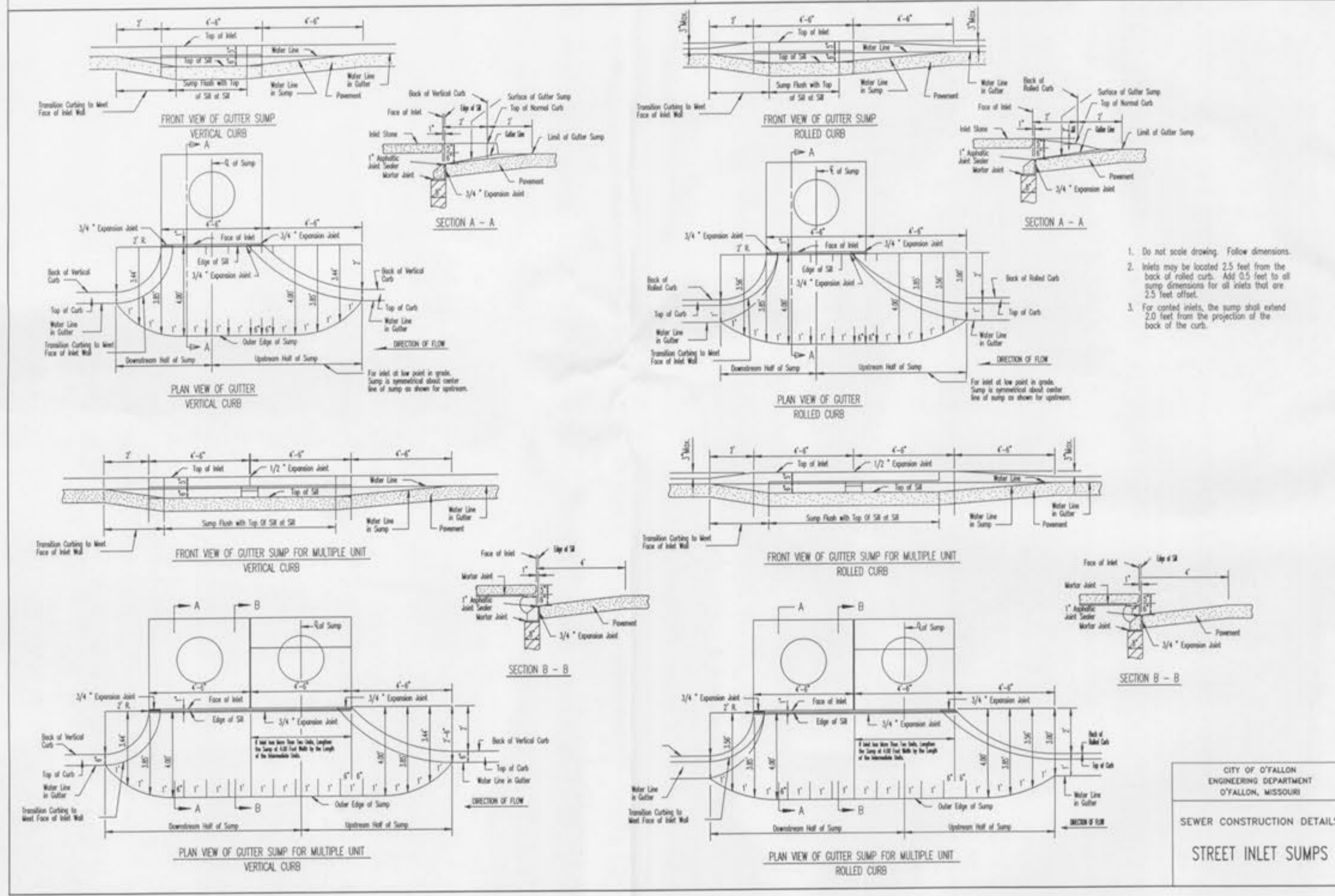


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SEWER CONSTRUCTION DETAILS
FLARED END SECTION (INLET/OUTLET PROTECTION)

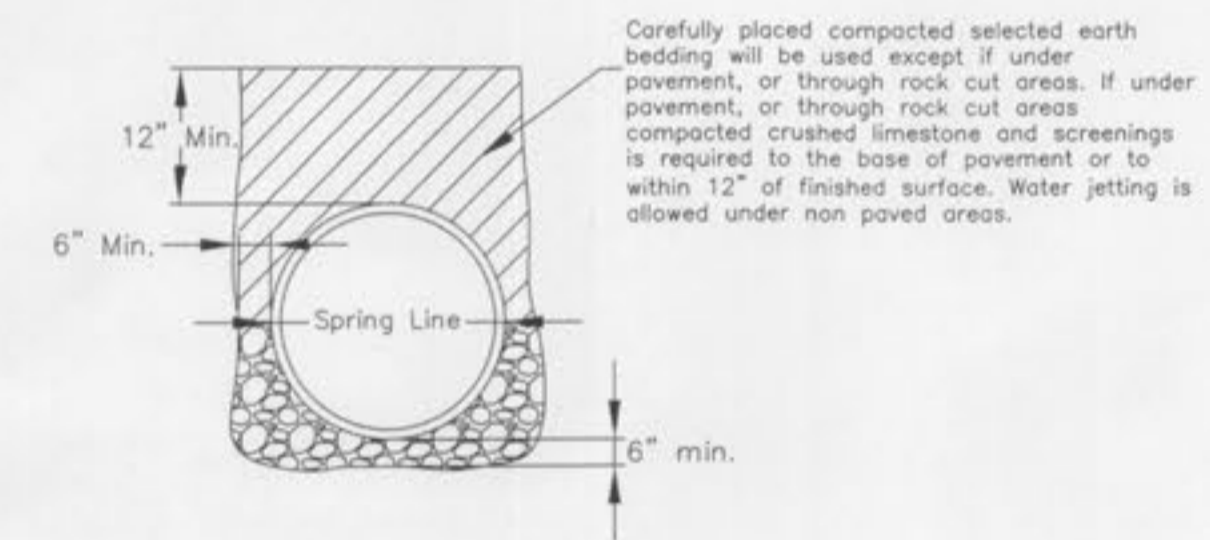
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ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

STORM DRAIN MARKER LOCATION



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ENGINEERING DEPARTMENT
O'FALLON, MISSOURI

SEWER CONSTRUCTION DETAILS
STREET INLET SUMPS



- Do not scale drawing. Follow dimensions.
- Inlets may be located 2.5 feet from the back of rolled curb. Add 0.5 feet to all sump dimensions for all inlets that are 2.5 feet offset.
- For canted inlets, the sump shall extend 2.5 feet from the projection of the back of the curb.

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O'FALLON, MISSOURI

TRANCH DETAIL

* All other Storm or Sanitary Sewer Details will be by M.S.D. 2007 Standards and Specifications.

Comment
CITY COMMENTS

Missouri Office
5030 Center Rd.
St. Louis, Missouri 63128
Telephone: (314) 887-8913
Fax: (314) 843-1718

Engineered By: **DOERING ENGINEERING Inc.**
CIVIL ENGINEERING • PLANNING • SURVEYING

Seal

STATE OF MISSOURI
MARK DOERING
ENGINEER
NUMBER E-23059
3/26/12

MARK DOERING
CIVIL ENGINEER E-23059
3/26/12
MO. CORPORATE
LICENSE NO. 001347
IL. CORPORATE
LICENSE NO. 184.003035

GOLDEN CORRAL
BRAMBLETT ROAD
O'FALLON, MO 63366
DETAILS

Date: 12/15/11
Project Number: 11063
File Name: 11063 CD
Drawn By: JAB
Check By: MAD
Sheet
C12B