



**RIPRAP SIZE & APRON DIMENSION**

PIPE SIZE (inch)	VELOCITY < 5 FPS				VELOCITY < 10 FPS			
	ROCK SIZE (inch)	APRON DIM (inch)	ROCK SIZE (inch)	APRON DIM (inch)	ROCK SIZE (inch)	APRON DIM (inch)	ROCK SIZE (inch)	APRON DIM (inch)
12	5	9	15	12	5	9	15	18
15	5	9	15	14	5	9	15	18
18-24	5	9	15	16	9	14	24	20
27-30	9	15	18	9	14	24	22	
36-42	14	24	22	12	18	27	26	
48-54	14	24	26	12	18	27	30	
60-66	12	18	27	34	15	24	30	38
72-84	15	24	30	42	15	24	30	46
96	18	27	30	50	18	27	30	54

dia - NOMINAL DIAMETER  
 dmax - MAXIMUM DIAMETER  
 T - THICKNESS  
 L - LENGTH

**PROJECT TITLE**  
IMPROVEMENT PLANS  
THE VILLAGES AT  
MONTRACHET  
DETAILS

**PICKETT, RAY & SILVER INC**  
CIVIL ENGINEERING, LAND SURVEYING,  
AND NATURAL RESOURCES SERVICES  
St. Peters, MO 63376  
22 Richmond Center Court  
St. Peters, MO 63376  
Phone (636) 397-1211 Fax (636) 397-1104  
www.prsinc.com 1-800-708-3918

**ENGINEER'S AUTHENTICATION**  
THE RESPONSIBILITY FOR PROFESSIONAL ENGINEERING LIABILITY ON THIS PROJECT IS HEREBY LIMITED TO THE SET OF PLANS AUTHENTICATED BY THE SEAL, SIGNATURE, AND DATE HEREON ATTACHED. RESPONSIBILITY IS DISCLAIMED FOR ALL OTHER ENGINEERING PLANS PROVIDED IN THIS PROJECT AND SPECIFICALLY EXCLUDES REVISIONS AFTER THIS DATE UNLESS REAUTHENTICATED.  
PICKETT, RAY & SILVER, INC. MO LICENSE #000035  
KARL ANTHONY SCHOENIKE  
PROFESSIONAL ENGINEER  
NO. 2003015039  
ELECTRONIC SEAL  
01-25-16  
KARL A. SCHOENIKE, P.E.  
PROFESSIONAL ENGINEER LICENSE 2003015039

**Developer / Owner Information**  
MONTRACHET DEVELOPMENT LLC  
218 Chesterfield Towne Centre  
Chesterfield, Missouri 63005  
Phone: 636-530-6900

**P+Z No.** 15-15.01  
**City No.** 15-742-SP  
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**CITY OF O'FALLON  
ENGINEERING DEPARTMENT  
O'FALLON, MISSOURI**

**TEMPORARY OUTLET  
PIPE DISCHARGE  
PROTECTION**

City of O'Fallon Standard Subdivision Notes and Details - June 2010

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DCSD APPROVED 11/30/15 PERMIT NUMBER 2015-2-005 CITY OF O'FALLON APPROVED 01/25/16 PWS# #2 APPROVED 12/30/15