



MAY VARY DEPENDING ON FIELD CONDITIONS PER ENGINEER.

GROUTED RIP RAP IN ACCORDANCE WITH ODOT SPECIFICATIONS IN THE CITY SUPPLEMENT.

SIZE D	A	B	C	E	W	C.Y. CONC.
12"	1'-0"	2'-0"	1'-0"	2'-0"	5'-0"	1.0
15"	1'-0"	2'-3"	1'-0"	2'-3"	6'-0"	1.5
18"	1'-0"	2'-6"	1'-0"	2'-6"	7'-0"	2.1
21"	1'-0"	2'-10"	1'-1"	2'-10"	8'-0"	3.2
24"	1'-0"	3'-1"	1'-1"	3'-1"	9'-0"	4.1
30" & OVER - SPECIAL DESIGN						

CITY OF CINCINNATI
METROPOLITAN SEWER DISTRICT
STORMWATER MANAGEMENT UTILITY

**TYPICAL
HEADWALL**

NO SCALE
APPROVED

[Signature]
SMU CHIEF ENGINEER

AUGUST, 2014

ACC. NO. 49030