STANDARD

DRAWINGS

SOUTHWEST OHIO ENGINEERING ASSOCIATION

PARTICIPATING

CITY	OF	CENTERVILLE
CITY	OF	EATON
CITY	OF	ENGLEWOOD
CITY	OF	FAIRBORN
CITY	OF	GREENVILLE
CITY	OF	LEBANON
CITY	OF	MASON
CITY	CF	MIAMISBURG
CITY	OF	MORAINE

MUNICIPALITIES

CITY	OF	OA	KWC	OD	
CITY	OF	SID	NEY		
CITY	OF	TR	ENTO	N	
CITY	OF	TR	OTW	DÓC	
CITY	OF	VAI	NDAL	.IA	
CITY	OF	WIL	MIN	GTON	
MONT	GON	ERY	' CO	UNTY	ENGINEER
VILLA	GE	OF	BRC	OKVI	LLE
VILLA	GE	OF	PHI	LIPS	BURG

PREPARED BY KRAFT - SHAW - WEISS & ASSOCIATES CONSULTING ENGINEERS DATTON OHIO MARCH, 1976



PLAN VIEWS

SECTIONS



T VEWA OUAL -78



KSWA OTOT - 76

neer hij de kaarde de k



KSWA 01058-76

300-15



Drywell Specs:

• #2 Stone required for general backfill

Adjusting	COVER	COVER	HEIGHT	FITS WITH USF
Ring USF NO.	DIAMETER	THICKNESS	ADJUSTMENT	RING NO.
2330	22 w	2	2	240, 310, 355, 420, 465, 485
2332	31 b	1	2	651, 652
2333	31 b	1	3	651, 652
2334	23 1	1	1	571, 664, 668, 669
2335	23 1	1	2	571, 664, 668, 669
2336	23 w	1	2	170, 195, 360, 385, 630
2337	23 2	1	1	361
2339	22 w	2	2	240, 310, 355, 420, 465, 485
2340	23 w	1	1	170, 195, 360, 385, 630
2341	25 w	1	2	152, 153
2342	25 e		2	480
2343	25 w	1	1	152, 153
2344	22 w	2	4	240, 310, 355, 420, 465, 485
2347	23 1	2	1	715
* 1" ADJRING-32	22 w	2	1	240, 310, 355, 420, 465, 485
* 1" ADJRING-33A	23 w	1	1	170, 195, 360, 385, 630



0

 \bigcirc

 \bigcirc

 \bigcirc







GUARDRAIL BOLT (For Post and Splice Bolts)				
L	T min.	Bolt Use		
22″ andard Rail)	A.//	Type MGS: WP/WB PB		
34″ arrier Rail)	4″	туре моз. т / то, то		
14″	4″	Type MGS: SP/WB, PB		
11/4 "	1 ¹ /8 "	Splice Bolt		
= Wood Post = Steel Post	WB = PB = ,	Wood Blockou† Plastic Blockou†		
ger Bolt may be needed for round Wood t larger than 8″ dia.				







Break

Point

8:1 max

Slope

Break

Point

VIIAVAS

Long

Post

ج.

Post or od Post

Steel 3") Woc

' (+/- 3") 7½' (+/-

ò

 \bigcirc

 \bigcirc

 \bigcirc

 \bigcirc

1 I.

1 1

POSTS: The Standard Post Length is 6'-0" (+3",-0" tolerance). Wood Posts are permitted instead of Standard Steel Posts per CMS 710.11. **POST EMBEDMENT DEPTH:** Standard embedment depth is 3'-4" minimum. Do not drive posts located over a culvert with less than 4'-3" of

472

Flange

width

3.94″

3.94"

3.94″

3.94″

NOTES

21/2" dia.

SIDE

Flange

thickness

0.193″

0.215"

0.193"

0.215″

cover; instead set in drilled or dug holes. Where site constraints prohibit the post from being placed at least one foot in front of the slope break point, use longer posts as shown in the Guardrail Post Length and Position Detail. The face of the rail may not be beyond the slope break point.

SPECIAL POST MOUNTINGS: Install posts located over a drainage inlet or structure with a cover of less than 3'-4" as shown in the FOOTING ANCHOR Detail.

ANCHORS: Holes shall comply with CMS 510. Use non-shrink, nonmetallic grout per CMS 705.20.

PROTECTIVE COATING: In lieu of the complying with CMS 710.06, coat expansion shields, anchors and concrete insert anchor assemblies embedded in concrete in accordance with ASTM A 153 or be of stainless steel. Any bolts screwed into these devices shall meet CMS 710.06.

PAYMENT: Payment for standard guardrail is measured in feet as Item 606 - Guardrail, Type MGS. Runs with longer posts should be paid as Item 606 - Guardrail, Type MGS With Long Posts, also measured in feet. All costs associated with special post mountings are included in the unit price bid of Item 606 Guardrail of the type specified in the plans.



71/2 "

0

Wəb

thickness

0.170"

0.170″

0.170″

0.170″

GUARDRAIL POST LENGTH AND POSITION



STRUT AND TOKE ASSEMBLT

	TATION 7-19-2013 DATE
rad. 35° 50 35° 50	state of ohio department of transport Michael Blime administrator
\searrow	stds. ENGINEER M. Ruppe
	OFFICE OF ROADWAY ENGINEERING
× ES MGS-1.1 DATED 1-18-2013	STANDARD ROADWAY CONSTRUCTION DRAWING MIDWEST GUARDRAIL SYSTEM GUARDRAIL DETAILS (Misc. Components)
THIS DRAWING REPLAC	scd NUMBER MGS-1.1
	3 3