108-8A STEEL BEAM GUARDRAIL AT CONCRETE BARRIER OR BRIDGE END POST 1 See Standards for list of materials. Refer to BA-200, BA-201, BA-202, BA-205, BA-250, SI-172, SI-173 and SI-211. Bid Items (1) Delineators and Object Markers Layout Lengths End Terminal Delineator Object Marker Barrier Flared for End Anchor Steel Beam Location Station Transition Adapter Remarks (VT1) (VF) (VT2) (ET) Bolted Guardrail Standard Cable Type Type 1 Type 3 Section Type 2 Connection Terminal White OM-3L OM-3R BA-202 BA-201 BA-200 BA-205 BA-206 BA-210 No. Station Offset 1063+60.24 -58.71 40.630 0.00 125.00

108-8C

108-33

04-16-13

STEEL BEAM GUARDRAIL FOR SIDE OBSTACLE (ONE-WAY PROTECTION)

Lane(s) to which the obstacle is adjacent.
See Standards for list of materials.

Refer to BA-200, BA-201, BA-203, BA-205, BA-206, BA-252, SI-172, SI-173, and SI-211

			Loc	cation						Layout	Lengths					Delineator	's and Obj	<u>ect Marke</u>	ers			Bid Items	(2)		
		(1) L	Side						Approa	ch Side (A		Traili	ng Side			Delineator	Ob	ject Mar	ker			End T	erminal		
No	ction	raffic (utside ledian	Station	Offset	O _L	D_0	ET	VT2 _A	VF _A	VT1 _A	VT1 _T	EA	Culvert Spanning	Туре	Type 1	Type 2	Ту	pe 3	Steel Beam Guardrail	W-Beam End Anchor	Standard	Flared for Cable Connection	Adapter	Remarks
	ے ا	'						Terminal					9.375'			White		OM-3L	OM-3R	BA-200	BA-203	BA-205	BA-206	BA-210	
	Di	b of	ő #			FT	FT	LF	LF	LF	LF	LF	LF			No.	No.	No.	No.	LF	No.	No.	No.	No.	
	1 W	В	0	1122+76.20	79.9	4.0	2.6	50.0	28.13	0.00	12.50	15.63	9.375							50.0	1	1			

108-9A 04-20-10 HIGH TENSION CABLE GUARDRAIL 1)Lane(s) to which the installation is adjacent. Refer to BA-351 Location Dimensions Bid Items Protection Offset Direction Approach Obstacle Trailing End Length Remarks of 1 Station Side Anchor D_{θ} $(C_A + C_O + C_T)$ Traffic FT 1139+65 98.5 2 | See B Sheets for Shoulder Details 2.0 171.0 445.8 715.2

TEMPORARY BARRIER RAIL

Refer to BA-400 and BA-401

* Not a bid item. Anchorage requirements are based on TBR locations shown in the plans. TBR alignments that vary from what is shown in the plans may result in additional TBR sections requiring anchorage.

			Length	(Selec	t Une)	Anchored*	1		
No.	No. Station to Station			Steel	Concrete	Anchor eu	Remarks		
			LF	BA-400	BA-401	(Y/N)			
1	1071+22	1075+38	421.4		X	N			
2	1068+68	1084+69	1586.9		X	N			
3	1106+40	1139+80	3340.5		X	N			
4	1116+72	1141+04	2431.7		X	N			

108-30 04-16-13 CRASH CUSHIONS Lane(s) to which the installation is adjacent. ② Complete this section when using the Temporary Crash Cushion bid item and Earthwork is needed for Sand Barrel placement. Refer to BA-500 1 Spare Parts Kit Sand Barrel Details (2) Crash Cushion (Select One)* Earthwork* (Select One)* Obstacle Width Excavation Class 10 Temporary Redirective V ent Use ary Use Location No. Side Obstacle Description Remarks Station Dir of Length Length Length Length Length EXISTING STEELBEAM GAURDRAIL WB 1067+57 I T 2.00 1071+22.02 RT 2 EB 6.50 6.50 17.00 TEMPORARY BARRIER RAIL 2.80 17.00 40.0 2.00 17.00 17.00 17.00 6.50 6.50 6.50 6.50 6.50 6.50 TEMPORARY BARRIER RAIL WB 1084+68.65 RT 2.00 2.80 17.00 40.0 40.0 4 1106+39.69 RT 1141+03.65 RT 2.80 17.00 17.00 EB TEMPORARY BARRIER RATI 2.00 TEMPORARY BARRIER RAIL 2.00

			108-13A		
			08-01-08		
	SAFE	TY CLOS	URES		
Refer t	o Section 25	18 of the Star	ndard Specifications		
Station	Closur	e Type	Remarks		
Station	Road Qty.	Hazard Qty.	Reliidi K3		
1091+13	1		South Rest Area		
1067+04	1		EB off Ramp		
1128+22	1		North Rest Area		
1124+55	1		WB off Ramp		
21078+15	1		105th St. at Wendover Rd.		

ENGLISH CITIES OF WAUKEE AND WEST DES MOINES Design Team | Wind MICHAEL | DALLAS COUNTY Project Number IMN-080-3(175)119-0E-25 | Sheet Number C.18