SEE THIS EXAMPLE FOR: MGS LONG POSTS, MASH THRIE BEAM & BOX BEAM

GUARDRAIL

STATION		linear feet						each								REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL LONG POST		BOX BEAM GUARDRAIL 8 FT POSTS		MASH THRIE BEAM BRIDGE APPROACH SECTION		MASH W-BEAM TERMINAL SECTION		MASH BOX BEAM TERMINAL – MBEAT		GUARDRAIL END SECTION WIDENING #		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NEW RAIL																
393+68.35	397+02.73 B.E.				262.5				1		1				1	RP 7.423
395+93.35	397+02.73 B.E.			37.5				1		1						RP 7.446
397+40.73 B.E.	398+50.11				37.5				1		1					RP 7.476
397+40.73 B.E.	399+75.11			162.5				1		1				1		RP 7.476
439+85.77	449+07.45						828.0						2		1	RP 8.289
458+25.85	473+41.53						1,422.0						2		1	RP 8.684
461+23.21	467+05.61					486.0						2		1		RP 8.779
496+34.41	508+10.81					1,080.0						2		1		RP 9.555
536+76.01	544+55.05						684.0						2		1	RP 10.121
577+25.29	598+72.33						2,052.0						2		1	RP 10.913
606+95.77	616+72.81						882.0						2		1	RP 11.449
633+20.92	648+19.96						1,404.0						2		1	RP 11.949
665+74.33	676+23.37						954.0						2		1	RP 12.565
698+96.41	721+69.45						2,178.0						2		1	RP 13.216
737+55.95	747+88.33 B.E.				962.5				1		1				1	RP 14.018
747+16.45	747+88.33 B.E.							1		1						RP 14.092
748+48.33 B.E.	749+20.21								1		1					RP 14.092
748+48.33 B.E.	749+70.21			50.0				1		1				1		RP 14.134
829+61.31	836+95.69 B.E.			662.5	662.5			1	1	1	1				1	RP 15.660
837+55.69 B.E.	841+02.57				275.0				1		1					RP 15.870
837+55.69 B.E.	842+27.57			400.0				1		1				1		RP 15.870
1371+52.77	1373+24.65 B.E.				100.0				1		1				1	RP 25.946
1372+52.77	1373+24.65 B.E.							1		1						RP 25.946
1375+39.55 B.E.	1377+11.43			100.0				1		1				1		RP 25.946
REMOVE RAIL																
394+91.53	397+02.73 B.E.		211.2													
396+10.23	397+02.73 B.E.	92.5														
397+40.73 B.E.	398+40.73		100.0													
397+40.73 B.E.	399+61.45	220.7														
440+64.01	443+80.81		316.8													
445+39.21	449+08.81		369.6													
461+23.21	466+51.21	528.0														
461+49.61	473+42.89		1,193.3													
496+34.41	507+48.49	1,114.1														
537+36.97	544+55.05		718.1													
579+18.73	582+09.13		290.4													
588+42.73	598+72.33		1,029.6													
607+48.81	609+86.41		237.6													
612+76.81	616+72.81		396.0													
633+88.81	638+16.49		427.7													
641+06.89	648+19.69		712.8													
666+41.29	676+23.37		982.1													
700+78.57	704+00.65		322.1													
706+11.85	710+34.25		422.4													
716+15.05	721+69.45		554.4													
743+80.43	747+88.33 B.E.		407.9													
748+48.33 B.E.	749+04.83	56.5														
830+09.29	836+95.69 B.E.	686.4	686.4													
837+55.69 B.E.	840+46.09	290.4	290.4													
SUBTOTAL		2,988.6	9,668.7	1,412.5	2,300.0	1,566.0	10,404.0	8	7	8	7	4	16	6	12	
TOTAL		12,657		3,713		11,970		15		15		20		18		

ALL GUARDRAIL END SECTION WIDENING OCCURS ON THE ADVANCEMENT RUN OF RAIL

SEE THIS EXAMPLE FOR : BOX BEAM GUARDRAIL

GUARDRAIL

STATION		linear feet				each				REMARKS
		REMOVE GUARDRAIL		BOX BEAM GUARDRAIL		MASH BOX BEAM TERMINAL – MBEAT		BOX BEAM BRIDGE APPROACH SECTION TYPE __		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NEW RAIL										
476+31.51	480+54.05 BE				324		1		1	
479+55.51	480+54.05 BE					1		1		
481+25.95 BE	484+94.49				270		1		1	
481+25.95 BE	485+48.49			324		1		1		
517+53.50	518+52.04 BE						1		1	
517+53.50	518+52.04 BE					1		1		
519+23.95 BE	521+12.49				90		1		1	
519+23.95 BE	522+56.49			234		1		1		
REMOVE RAIL										
479+02.82	480+53.26		150.4							W-BEAM RAIL IN PLACE
479+49.68	480+53.08	103.4								W-BEAM RAIL IN PLACE
481+25.72	484+15.00		289.3							W-BEAM RAIL IN PLACE
481+25.94	484+15.00	289.1								W-BEAM RAIL IN PLACE
519+23.37	521+02.16		178.8							W-BEAM RAIL IN PLACE
519+22.89	521+01.68	178.8								W-BEAM RAIL IN PLACE
SUBTOTAL		571.3	618.5	558	684	4	4	4	4	
TOTAL		1,190		1,242		8		8		

SEE THIS EXAMPLE FOR: MGS, IRT AND MASH

GUARDRAIL

STATION		linear feet						each						REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL - LONG POSTS*		MGS INTERSECTING ROADWAY TERMINAL SECTION		MASH W-BEAM TERMINAL SECTION		MGS ONE-WAY DEPARTURE TERMINAL SECTION		BRIDGE APPROACH SECTION TYPE 1		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
NH-G FUNDED														
NEW RAIL														
297+63.97	342+45.99			4,453.1 #				1						CONNECT TO EXISTING GUARDRAIL
370+51.79	383+75.49			1,290.6 #						1				CONNECT TO EXISTING GUARDRAIL
420+71.01	440+93.61			2,003.1 #				1						CONNECT TO EXISTING GUARDRAIL
448+05.59	470+55.66			2,203.1 #				1						CONNECT TO EXISTING GUARDRAIL
475+75.67	498+08.28			2,162.5				2						
506+86.75	527+13.19			1,987.5				1		1				
532+58.13	547+69.24			1,462.5				1		1				
551+23.04	555+57.10			390.6 #				1						CONNECT TO EXISTING GUARDRAIL
554+10.60	561+49.99				687.5				2					
557+82.04	561+94.50			378.1 #				1						CONNECT TO EXISTING GUARDRAIL
568+75.90	649+61.85				8,065.6 #		62.5						1	RADIUS = 24.0'
649+80.82	672+30.95				2,200.0		50.0		1					RADIUS = 16.0'
														ANCHOR SECTION ANGLED 80° FROM MAINLINE
674+83.51	682+85.74				737.5				2					
REMOVE RAIL														
297+55.37	342+45.99	4,496.3												
370+59.89	383+75.49	1,295.2												
420+65.74	440+93.61	2,042.8												
448+05.59	470+57.27	2,239.2												
475+64.97	498+19.17	2,253.5												
506+86.75	527+26.60	2,048.0												
532+52.46	547+69.24	1,515.2												
551+22.29	555+57.10	425.6												
554+00.01	561+61.24		778.5											
557+82.04	562+04.71	422.9												
568+75.90	649+63.53		8,128.9											
649+81.11	672+46.15		2,286.8											
674+72.72	682+96.63		828.1											
SUBTOTAL		16,738.7	12,022.3	15,940.5	11,690.6	~	112.5	9	5	3	~	~	1	
100% STATE FUNDED														
NEW RAIL														
878+47.08	895+30.30				1,612.5				2					
SUBTOTAL		~	~	~	1,612.5	~	~	~	2	~	~	~	~	
TOTAL		28,761		29,244		113		16		3		1		

* USE 8.0' STEEL POSTS ONLY

\# INCLUDES 28.1' MGS TO METAL GUARDRAIL TRANSITION

SEE THIS EXAMPLE FOR: MGS, ROCKFALL BARRIER WALL, HIGH-TENSION CABLE RAIL, MGS ONE-WAY DEP. TERM. SEC.

GUARDRAIL

STATION		linear feet								each								REMARKS
		REMOVE GUARDRAIL		MGS GUARDRAIL		ROCKFALL BARRIER RAIL #		HIGH-TENSION CABLE RAIL		MASH W-BEAM TERMINAL SECTION		MGS ONE-WAY DEPARTURE TERMINAL SECTION		GUARDRAIL END SECTION WIDENING		BRIDGE APPROACH SECTION TYPE 1		
FROM	TO	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	LEFT	RIGHT	
1247+82.00	1286+94.50		3,912.5															NB RIGHT; INCL. OTS & ONE-WAY DEPART.
1247+82.00	1286+94.50				3,850.0						1		1					NORTHBOUND RIGHT
1247+79.00	1259+43.00	1,150.0																SB LEFT; INCL. OTS, ROCKFALL RAIL & ONE-WAY DEPART.
1247+79.00	1259+43.00			287.5		800				1		1						SOUTHBOUND LEFT
1267+72.00	1318+47.00	5,075.0																SB LEFT; INCL. OTS, ROCKFALL RAIL & ONE-WAY DEPART.
1267+72.00	1318+47.00			4,212.5		800				1		1						SOUTHBOUND LEFT
1304+89.50	1308+14.50		325.0															NB RIGHT; INCL. OTS & ONE-WAY DEPART.
1304+89.50	1308+14.50				262.5						1		1					NORTHBOUND RIGHT
1345+44.60																		
1346+91.60 BK	1346+89.10 AH																	
	1349+22.10	375.0																SB LEFT; INCL. OTS & ONE-WAY DEPART.
1345+44.60																		
1346+91.60 BK	1346+89.10 AH																	
	1349+22.10			312.5						1		1						SOUTHBOUND LEFT
1378+71.00	1384+33.50 BE		562.5															NB RIGHT; INCL. OTS & BAS
1378+74.10	1384+33.50 BE				& 490.6						1						1	NORTHBOUND RIGHT
1379+08.50	1384+33.50 BE	525.0																SB LEFT; INCL. ONE-WAY DEPART.
1379+11.60	1384+33.50 BE			& 515.6								1						SOUTHBOUND LEFT
1385+66.50 BE	1391+16.50		550.0															NB RIGHT; INCL. ONE-WAY DEPART.
1385+66.50 BE	1391+19.60				& 540.6								1					NORTHBOUND RIGHT
1385+66.50 BE	1392+54.00	687.5																SB LEFT; INCL. OTS & BAS
1385+66.50 BE	1392+54.00			612.5						1						1		SOUTHBOUND LEFT
1395+82.00	1403+07.00	725.0																SB LEFT; INCL. OTS & ONE-WAY DEPART.
1395+82.00	1403+07.00			662.5						1		1						SOUTHBOUND LEFT
1397+80.50	1406+18.00		837.5															NB RIGHT; INCL. OTS, ROCKFALL RAIL & ONE-WAY DEPART.
1397+80.50	1406+55.50				150.0		625				2				1			NORTHBOUND RIGHT
1409+70.30																		
1411+59.30 BK	1411+74.00 AH																	
	1412+35.00 BE		250.0															NB RIGHT; INCL. OTS & BAS
1409+73.40																		
1411+59.30 BK	1411+74.00 AH																	
	1412+35.00 BE				& 178.1						1						1	NORTHBOUND RIGHT
1411+59.30 BK	1411+74.00 AH																	
1410+07.50	1411+45.00 BE	137.5																SB LEFT; INCL. ONE-WAY DEPART.
1411+59.30 BK	1411+74.00 AH																	
1410+10.60	1411+45.00 BE			& 65.6						1				1		1		SOUTHBOUND LEFT
1413+47.00 BE	1415+97.00	250.0																SB LEFT; INCL. OTS & BAS
1413+47.00 BE	1416+00.10			& 178.1						1						1		SOUTHBOUND LEFT
1414+30.00 BE	1415+33.10				& 28.1						1				1		1	NORTHBOUND RIGHT
1420+38.50	1427+01.00		662.5															NB RIGHT; INCL. OTS & BAS
1420+41.60	1427+01.00				& 590.6						1						1	NORTHBOUND RIGHT
1426+01.00	1427+01.00	100.0																SB LEFT; INCL. ONE-WAY DEPART.
1426+04.10	1427+01.00			& 28.1						1				1		1		SOUTHBOUND LEFT
1427+99.10	1428+99.10		100.0															NB RIGHT; INCL. ONE-WAY DEPART.
1428+02.20	1428+99.10				& 28.1						1				1		1	NORTHBOUND RIGHT
1428+03.00	1430+53.00	250.0																SB LEFT; INCL. OTS & BAS
1428+06.10	1430+53.00			& 178.1						1						1		SOUTHBOUND LEFT
1435+65.00	1438+15.00 BE		250.0															NB RIGHT; INCL. OTS & BAS
1435+68.10	1438+15.00 BE				& 178.1						1						1	NORTHBOUND RIGHT
1437+38.10	1438+35.00 BE				& 28.1						1				1		1	SOUTHBOUND RIGHT
1437+58.10	1438+55.00 BE			& 28.1						1				1		1		SOUTHBOUND LEFT
1440+01.00 BE	1441+04.10				& 28.1						1				1		1	NORTHBOUND RIGHT
1440+11.00 BE	1441+11.00	100.0																NB LEFT; INCL. ONE-WAY DEPART.
1440+11.00 BE	1441+14.10			& 28.1						1				1		1		NORTHBOUND LEFT
1440+77.00 BE	1443+27.00		250.0															SB RIGHT; INCL. OTS & BAS
1440+77.00 BE	1443+30.10				& 178.1						1						1	SOUTHBOUND RIGHT
1441+15.00 BE	1443+65.00	250.0																SB LEFT; INCL. OTS & BAS
1441+15.00 BE	1443+68.10			& 178.1						1						1		SOUTHBOUND LEFT
1452+63.50	1455+26.00 BE	262.5																NB LEFT; INCL. OTS & BAS
1452+66.60	1455+26.00 BE			& 190.6						1						1		NORTHBOUND LEFT
1452+90.00	1454+40.00 BE	150.0																SB LEFT; INCL. ONE-WAY DEPART.
1452+93.10	1454+40.00 BE			& 78.1						1				1		1		SOUTHBOUND LEFT
MEDIAN CROSSOVER																		
RP 163.572								300.0										
SUBTOTAL		10,037.5	7,700.0	7,556.0	6,531.0	1,600	625	300.0	~	14	13	5	3	5	5	10	9	
TOTAL		17,738		14,087		2,225		300		27		8		10		19		

 # SEE DETAIL
& INCLUDES MGS TO METAL GUARDRAIL TRANSITION