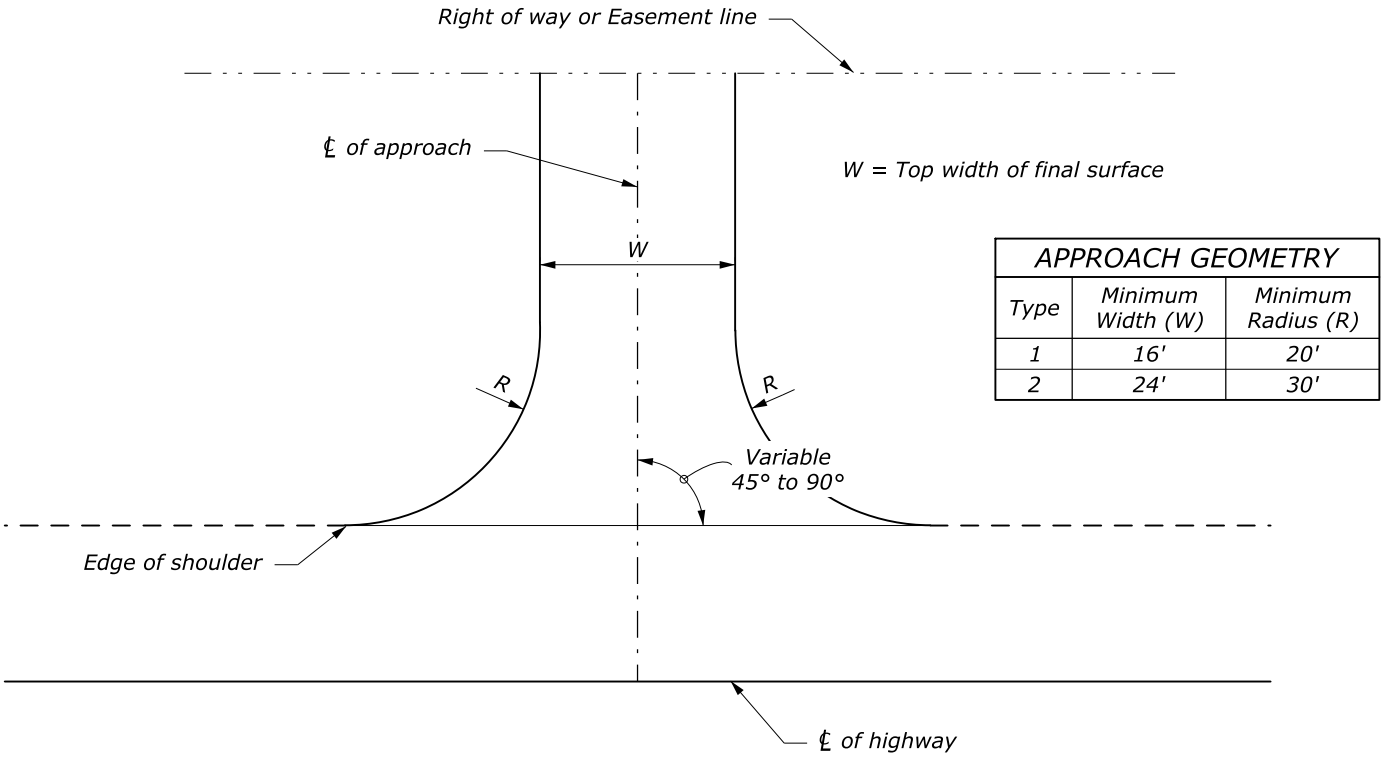


c:\myfiles\pw_production\dms43182\W200-50.dgn [USC]
20 July 2016 2:09 PM

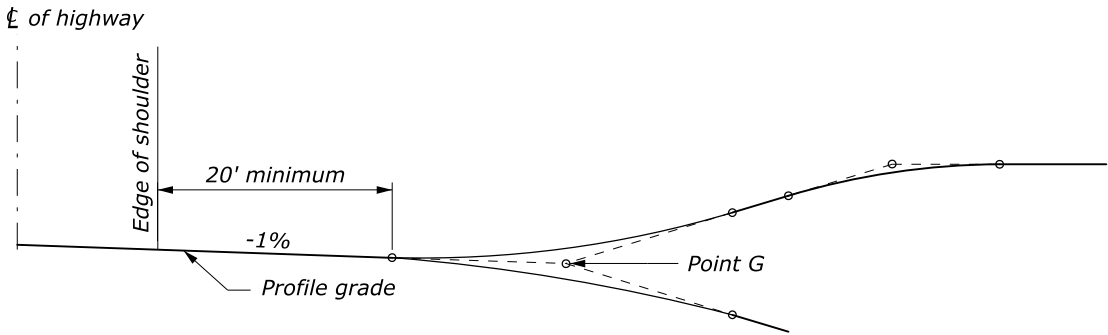
STATE	PROJECT	SHEET NUMBER

NOTE:

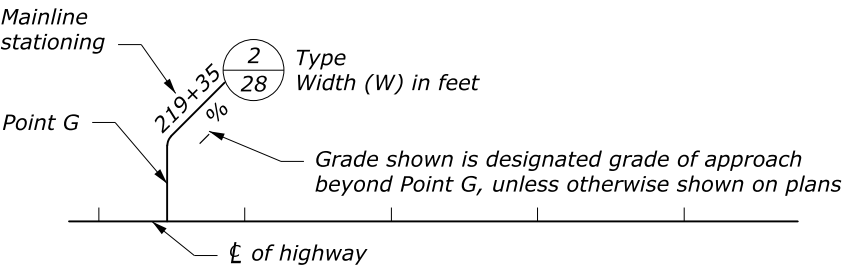
1. **GRADING REQUIREMENTS:** Construct side slopes of finish approaches compatible with adjacent roadway construction.
2. **PAVEMENT STRUCTURE REQUIREMENTS:** Extend the surface course to the right-of-way or easement line unless otherwise shown on the plans.
3. Finish approaches to commercial use public roads with same treatment as shown for the adjacent roadbed.
4. Finish other approaches with aggregate base. Provide a surface course of the same treatment as shown for the adjacent roadbed, but do not exceed 1½ inches depth.



APPROACHES FOR UNCURBED HIGHWAYS
TYPE 1 AND TYPE 2



APPROACH PROFILE



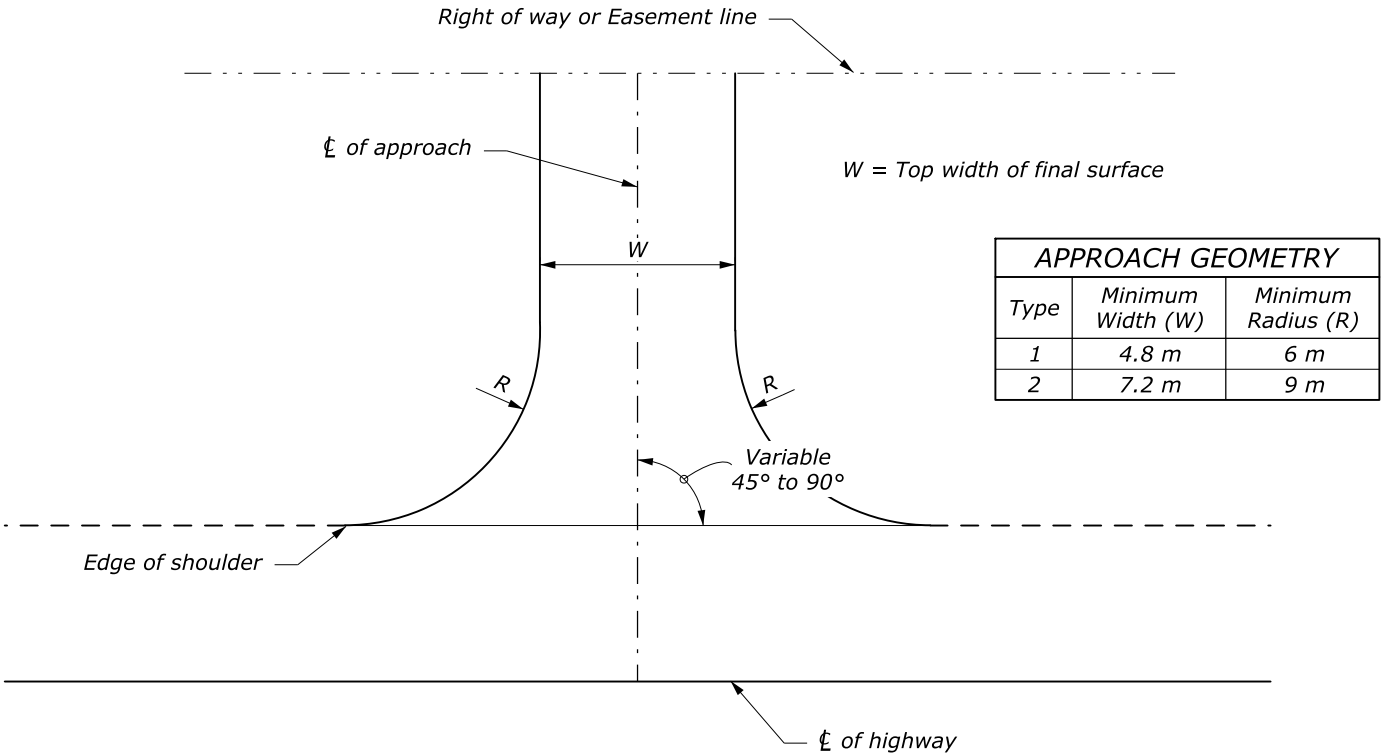
ROAD APPROACH LOCATIONS
ON PLAN SHEETS

NO SCALE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION WESTERN FEDERAL LANDS HIGHWAY DIVISION	
U.S. CUSTOMARY DETAIL	
IDAHO ROAD APPROACH	
DETAIL APPROVED FOR USE 3/2003	DETAIL
REVISED: DRAFT: 11/2014	W200-50

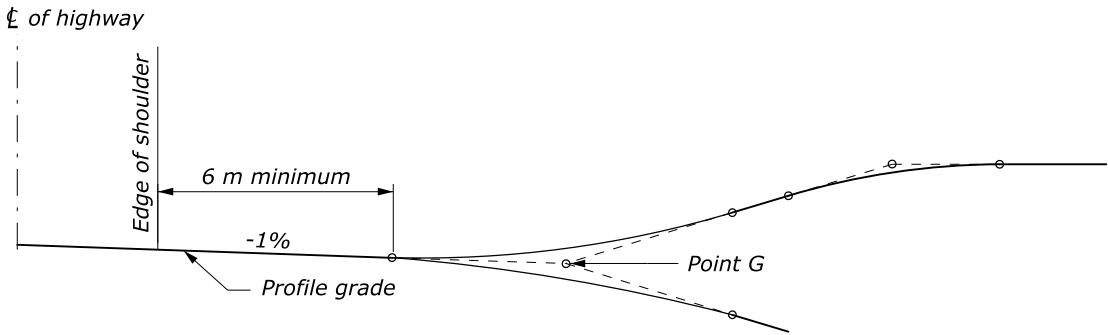
NOTE:

- 1. GRADING REQUIREMENTS: Construct side slopes of finish approaches compatible with adjacent roadway construction.
- 2. PAVEMENT STRUCTURE REQUIREMENTS: Extend the surface course to the right-of-way or easement line unless otherwise shown on the plans.
- 3. Finish approaches to commercial use public roads with same treatment as shown for the adjacent roadbed.
- 4. Finish other approaches with aggregate base. Provide a surface course of the same treatment as shown for the adjacent roadbed, but do not exceed 40 mm depth.
- 5. Dimensions without units are millimeters.

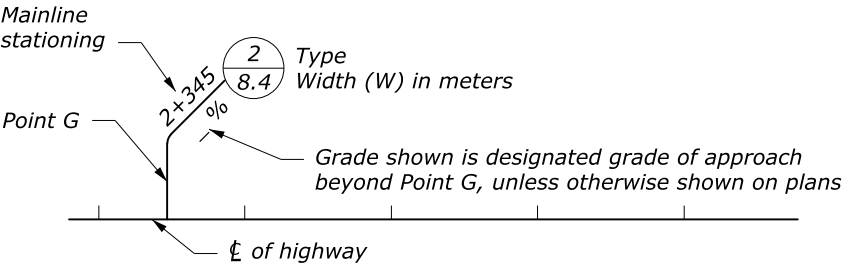


APPROACH GEOMETRY		
Type	Minimum Width (W)	Minimum Radius (R)
1	4.8 m	6 m
2	7.2 m	9 m

APPROACHES FOR UNCURBED HIGHWAYS
TYPE 1 AND TYPE 2



APPROACH PROFILE

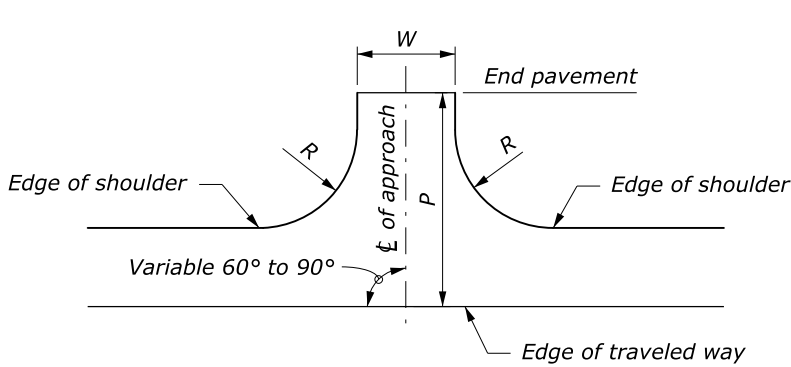


ROAD APPROACH LOCATIONS
ON PLAN SHEETS

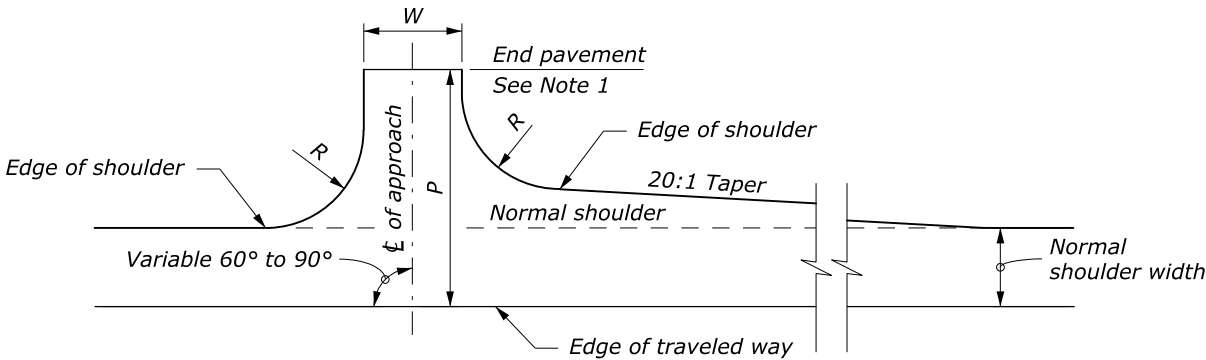
NO SCALE

NOTE:

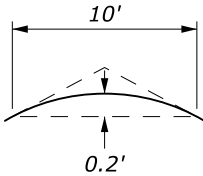
1. Finish Type 3 approaches to public roads (county, state and municipalities) and commercial use public or private roads with the same pavement structure as shown for the adjacent roadbed.
2. Finish other approaches with untreated base. Provide a wearing surface of the same treatment as shown for the adjacent roadbed, but limit the depth to 1½" maximum.
3. Construct side slope ratio and degree of finish of approaches compatible with adjacent roadway construction.



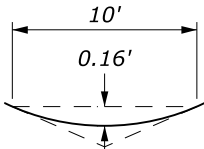
TYPES 1 & 2



TYPE 3

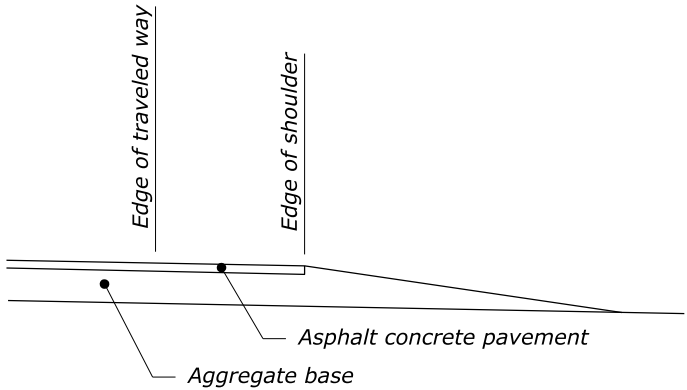


MAXIMUM CREST

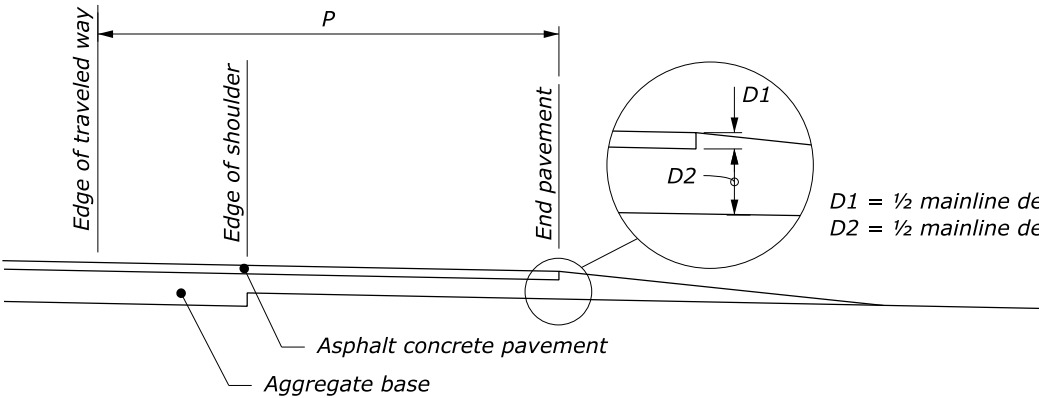


MAXIMUM SAG

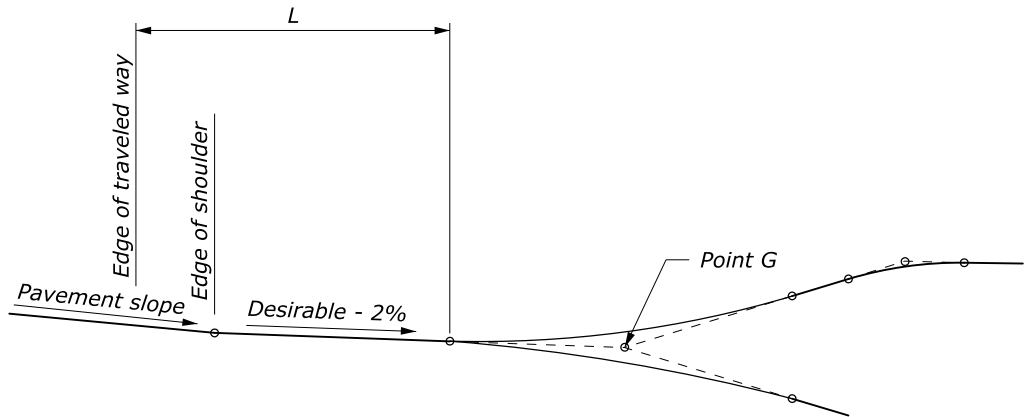
Where approach grades meet without vertical curves, limit the maximum algebraic difference to 8% on crests and 12% on sags.



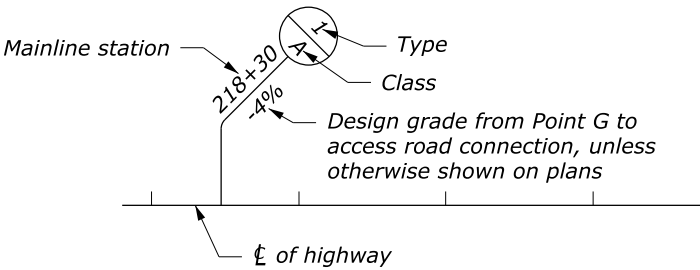
TYPE 1 APPROACH
(UNPAVED)



TYPE 2 APPROACH



APPROACH PROFILE



ROAD APPROACH SYMBOL

ROAD APPROACHES					
TYPE	CLASS	W	R	L (min.)	P
		Dimensions in Feet			
Single Owner Use					
1	A	16	16	16	N/A
2 or 3	A	16	16	16	16
2 or 3	B	20	16	16	16
Two-Way Multiple Use					
2 or 3	C	26	16	to R/W	to R/W
2 or 3	D	32	30	to R/W	to R/W
Public Road Approach					
3	E	32	55	55	55

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION

U.S. CUSTOMARY DETAIL

OREGON
ROAD APPROACH

DETAIL APPROVED FOR USE 12/2002

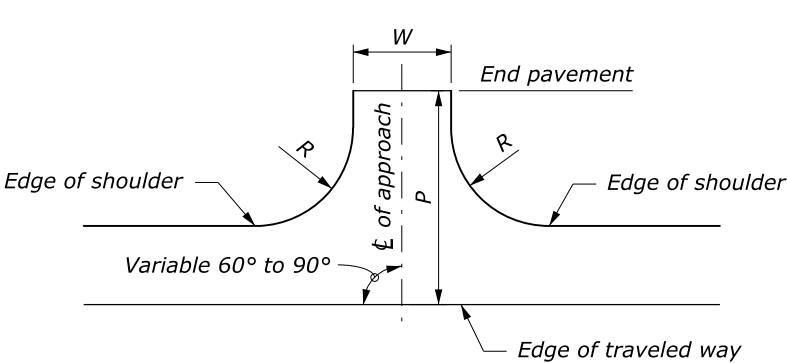
REVISED:
DRAFT: 11/2014

DETAIL
W200-70

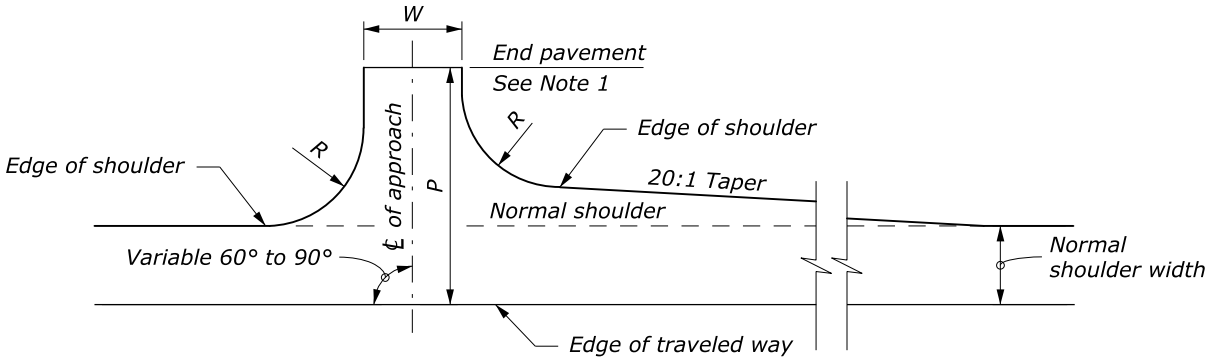
NO SCALE

NOTE:

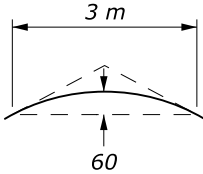
1. Finish Type 3 approaches to public roads (county, state and municipalities) and commercial use public or private roads with the same pavement structure as shown for the adjacent roadbed.
2. Finish other approaches with untreated base. Provide a wearing surface of the same treatment as shown for the adjacent roadbed, but limit the depth to 38 mm maximum.
3. Construct side slope ratio and degree of finish of approaches compatible with adjacent roadway construction.
4. Dimensions without units are millimeters.



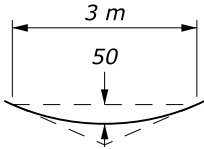
TYPES 1 & 2



TYPE 3

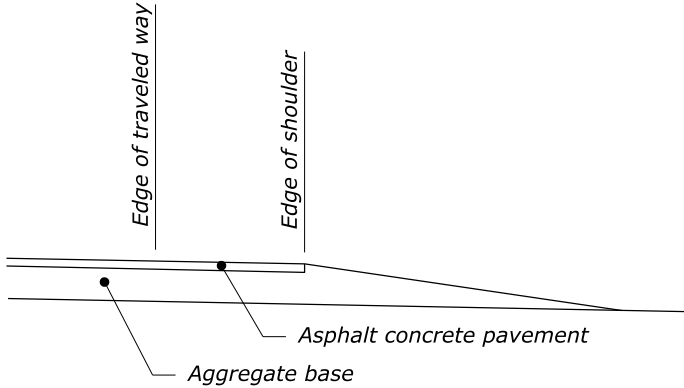


MAXIMUM CREST

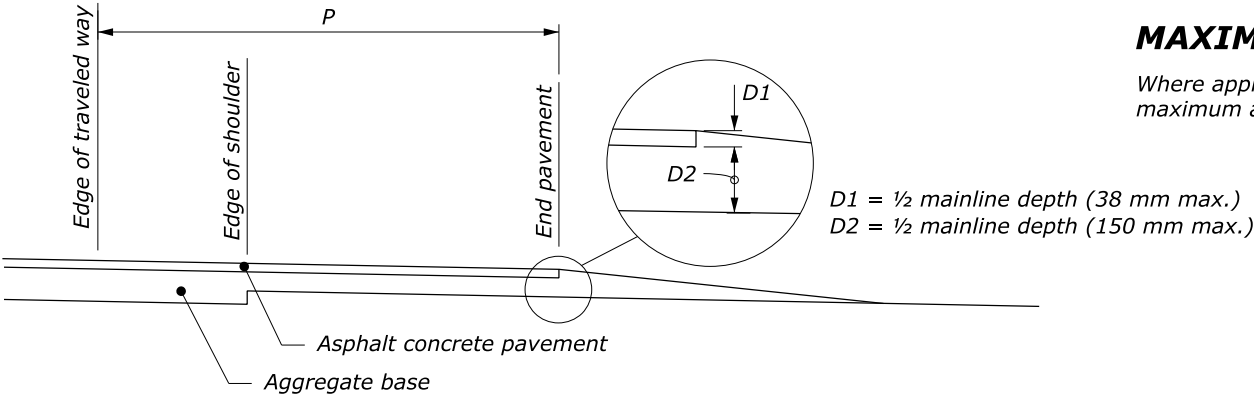


MAXIMUM SAG

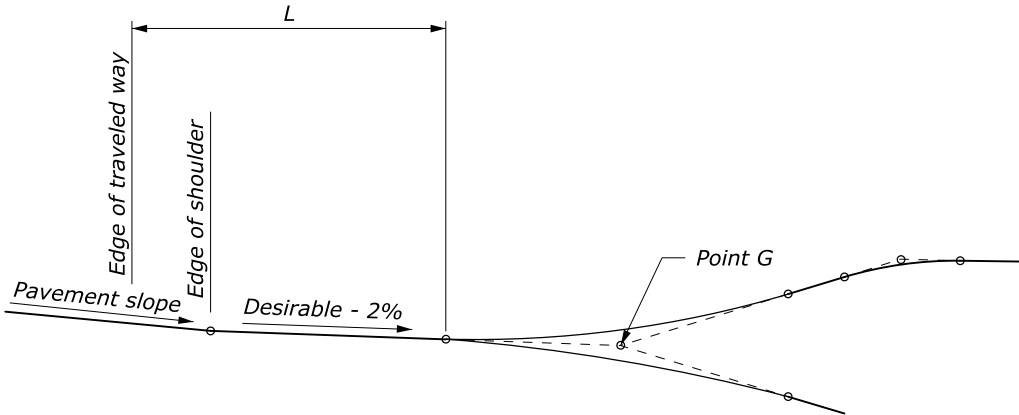
Where approach grades meet without vertical curves, limit the maximum algebraic difference to 8% on crests and 12% on sags.



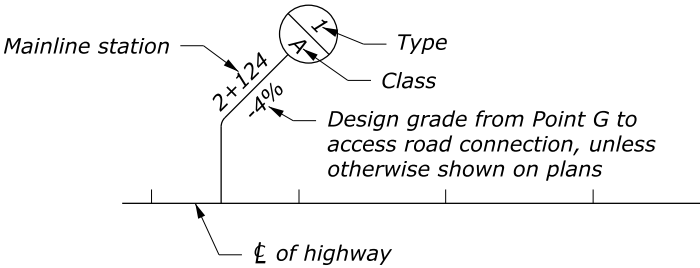
TYPE 1 APPROACH
(UNPAVED)



TYPE 2 APPROACH



APPROACH PROFILE



ROAD APPROACH SYMBOL

ROAD APPROACHES					
TYPE	CLASS	W	R	L (min.)	P
		Dimensions in Meters			
Single Owner Use					
1	A	4.8	4.8	4.8	N/A
2 or 3	A	4.8	4.8	4.8	4.8
2 or 3	B	6.0	4.8	4.8	4.8
Two-Way Multiple Use					
2 or 3	C	7.8	4.8	to R/W	to R/W
2 or 3	D	9.6	9.0	to R/W	to R/W
Public Road Approach					
3	E	9.6	16.5	16.5	16.5

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION
WESTERN FEDERAL LANDS HIGHWAY DIVISION

METRIC DETAIL

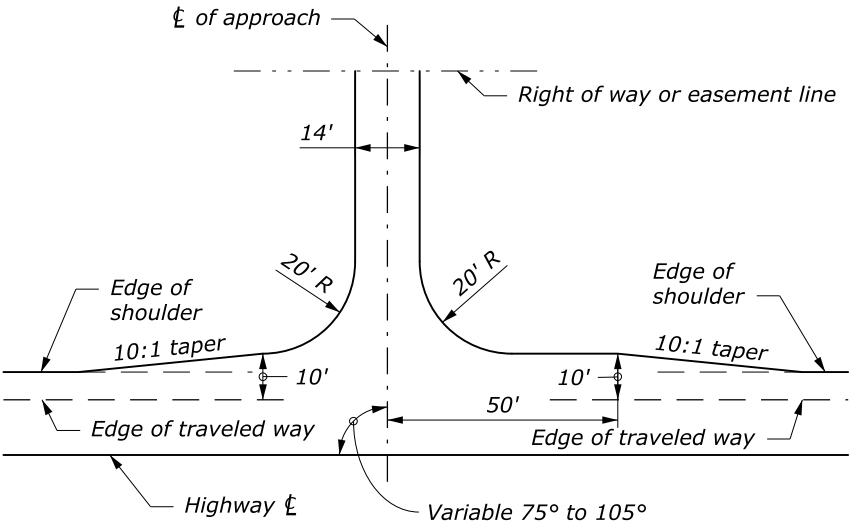
OREGON
ROAD APPROACH

DETAIL APPROVED FOR USE 12/2002

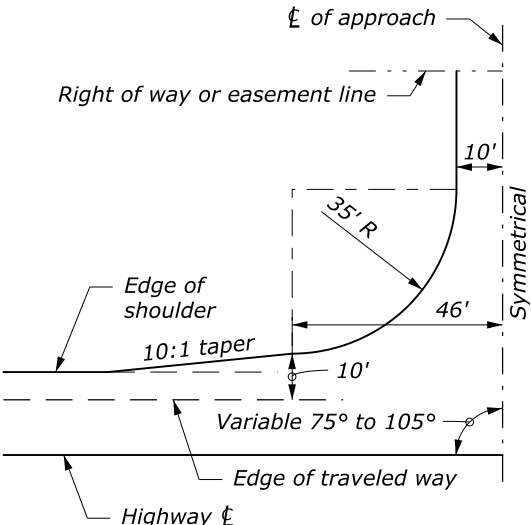
REVISED:
DRAFT: 11/2014

DETAIL
MW200-70

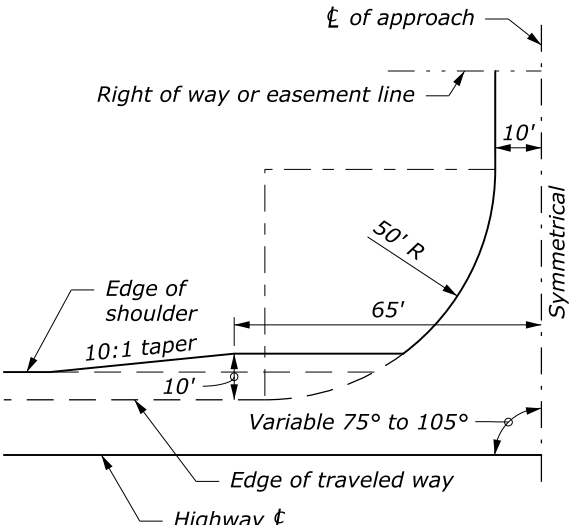
NO SCALE



PLAN OF TYPE A APPROACH



PLAN OF TYPE B APPROACH

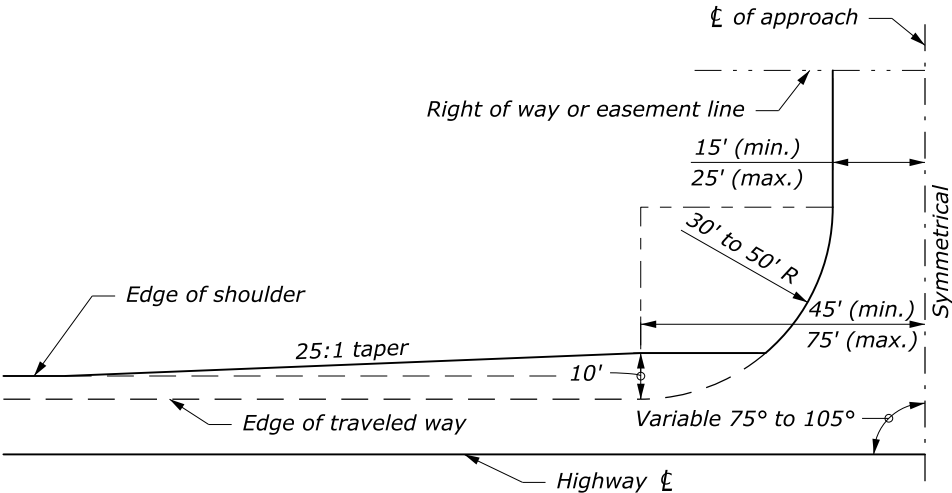


PLAN OF TYPE C APPROACH

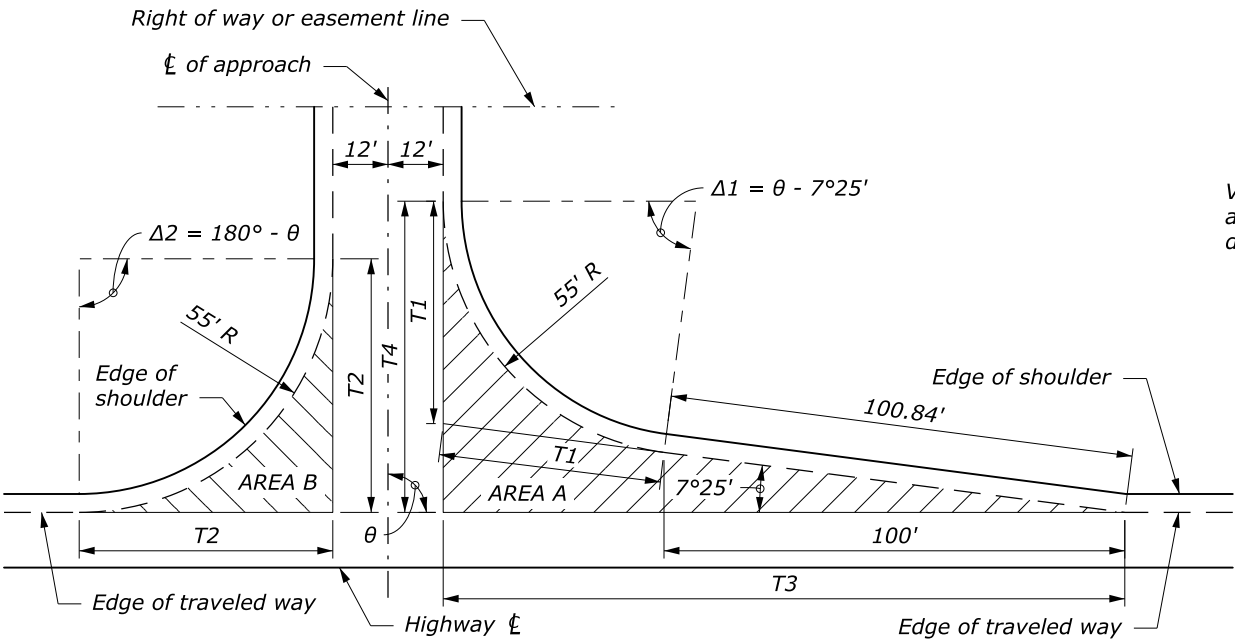
NOTE:

1. Continue approach radius as required if connection to existing alignment of new approach is at an angle.
2. Finish type D and M approaches with the same treatment as shown for the adjacent roadbed.
3. Finish other approaches with the same treatment as shown on the adjacent roadbed, except that the surface course shall not exceed 1½ inch depth.
4. Extend paving to the right-of-way or easement line unless otherwise shown on the plans.
5. Construct side slope ratios and finish approaches compatible with the adjacent roadway construction.

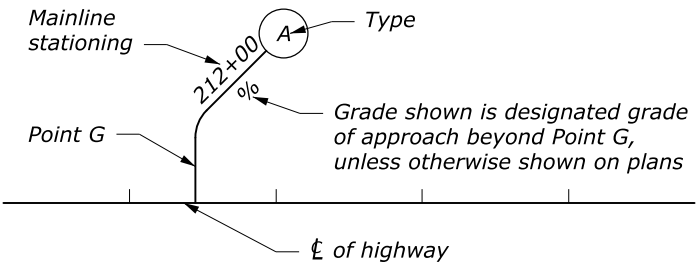
TYPE M INTERSECTION DATA								
SKEW θ	Δ1	Δ2	T1 ft	T2 ft	T3 ft	T4 ft	Area A sqyd	Area B sqyd
75°	67°35"	105°	36.81	71.68	131.74	55.20	157	130
76°	68°35"	104°	37.51	70.40	132.74	55.91	160	125
77°	69°35"	103°	38.21	69.14	133.75	56.64	163	120
78°	70°35"	102°	38.93	67.92	134.77	57.38	166	116
79°	71°35"	101°	39.66	66.72	135.80	58.13	169	111
80°	72°35"	100°	40.39	65.55	136.84	58.90	173	107
81°	73°35"	99°	41.13	64.40	137.89	59.69	176	103
82°	74°35"	98°	41.89	63.27	138.95	60.49	179	99
83°	75°35"	97°	42.65	62.17	140.02	61.31	183	95
84°	76°35"	96°	43.42	61.08	141.10	62.15	187	92
85°	77°35"	95°	44.21	60.02	142.20	63.00	191	88
86°	78°35"	94°	45.00	58.98	143.31	63.88	194	85
87°	79°35"	93°	45.81	57.96	144.44	64.77	198	81
88°	80°35"	92°	46.63	56.95	145.57	65.68	203	78
89°	81°35"	91°	47.46	55.97	146.73	66.61	207	75
90°	82°35"	90°	48.30	55.00	147.90	67.56	211	72
91°	83°35"	89°	49.16	54.05	149.09	68.53	216	69
92°	84°35"	88°	50.03	53.11	150.29	69.52	220	66
93°	85°35"	87°	50.92	52.19	151.52	70.53	225	64
94°	86°35"	86°	51.81	51.29	152.76	71.57	230	61
95°	87°35"	85°	52.73	50.40	154.02	72.63	235	59
96°	88°35"	84°	53.66	49.52	155.30	73.71	240	56
97°	89°35"	83°	54.60	48.66	156.61	74.82	245	54
98°	90°35"	82°	55.56	47.81	157.94	75.95	251	52
99°	91°35"	81°	56.54	46.97	159.29	77.11	257	49
100°	92°35"	80°	57.54	46.15	160.66	78.30	263	47
101°	93°35"	79°	58.55	45.34	162.06	79.51	269	45
102°	94°35"	78°	59.59	44.54	163.49	80.76	275	43
103°	95°35"	77°	60.64	43.75	164.94	82.03	281	42
104°	96°35"	76°	61.71	42.97	166.43	83.34	288	40
105°	97°35"	75°	62.81	42.20	167.94	84.68	295	38



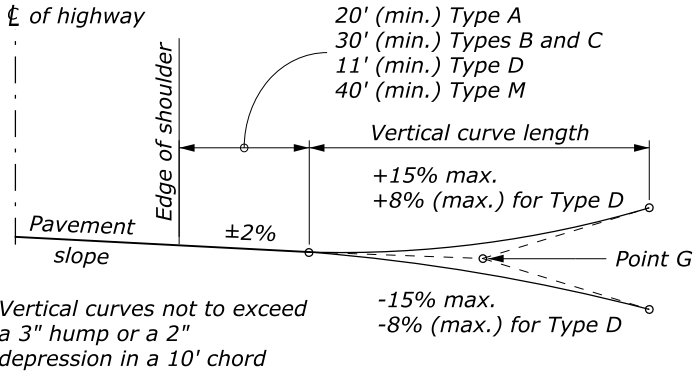
PLAN OF TYPE D APPROACH



PLAN OF TYPE M APPROACH

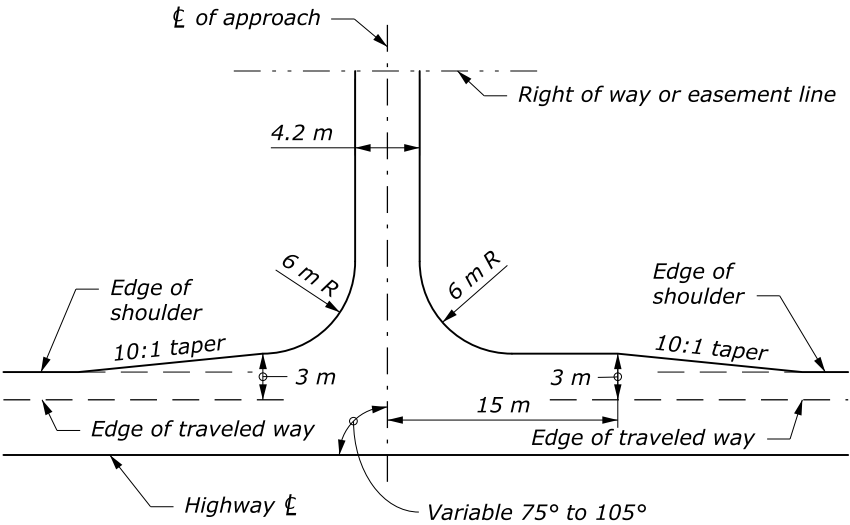


ROAD APPROACH LOCATIONS ON PLAN SHEETS

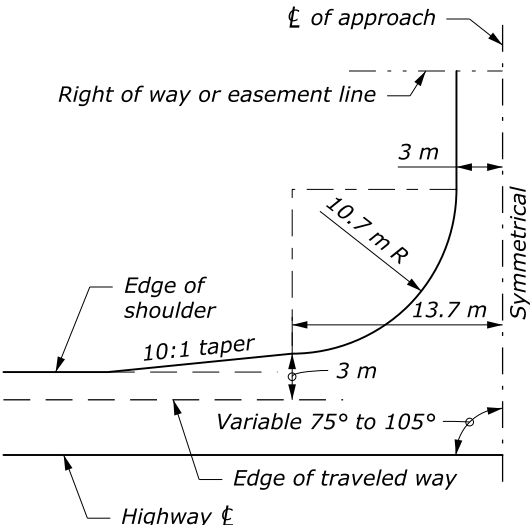


PROFILE OF TYPE A, B, C, D, M APPROACHES

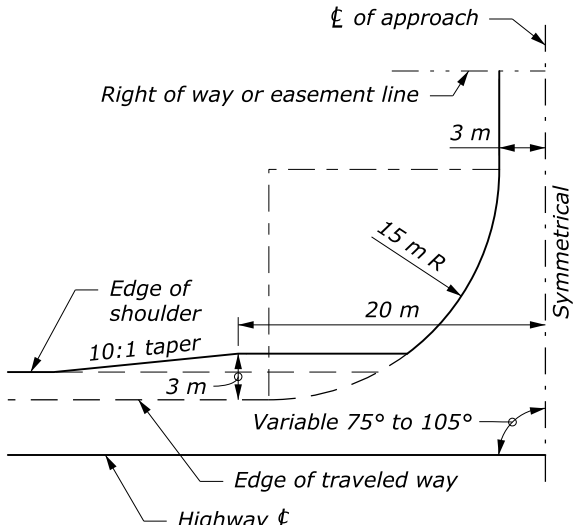
NO SCALE



PLAN OF TYPE A APPROACH



PLAN OF TYPE B APPROACH

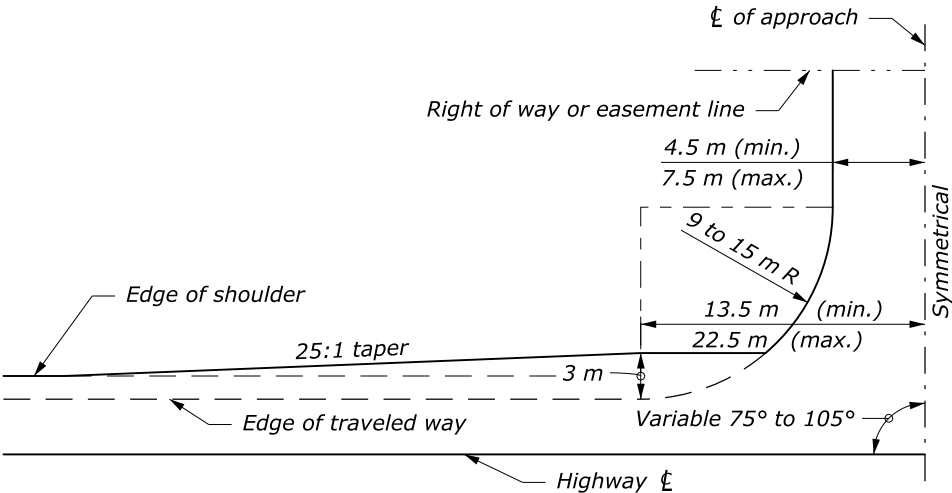


PLAN OF TYPE C APPROACH

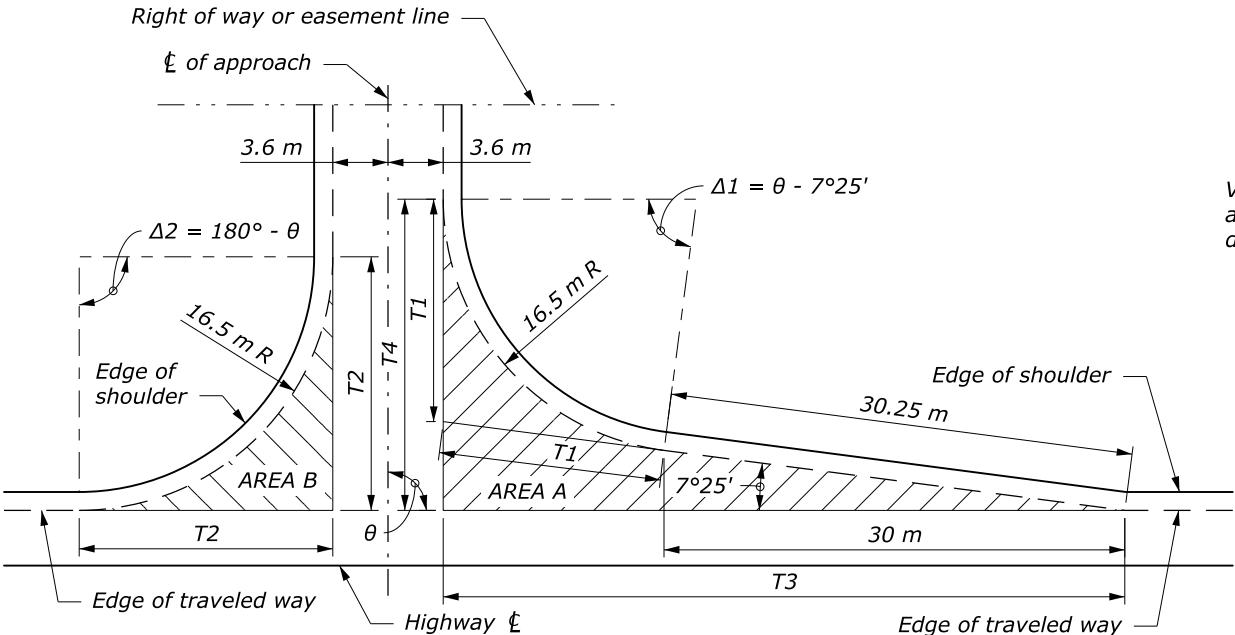
NOTE:

1. Continue approach radius as required if connection to existing alignment of new approach is at an angle.
2. Finish type D and M approaches with the same treatment as shown for the adjacent roadbed.
3. Finish other approaches with the same treatment as shown on the adjacent roadbed, except that the surface course shall not exceed 40 mm in depth.
4. Extend paving to the right-of-way or easement line unless otherwise shown on the plans.
5. Construct side slope ratios and finish approaches compatible with the adjacent roadway construction.
6. Dimensions without units are millimeters.

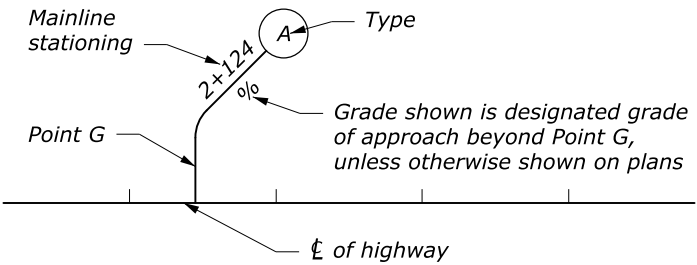
TYPE M INTERSECTION DATA								
SKEW θ	Δ1	Δ2	T1 m	T2 m	T3 m	T4 m	Area A m2	Area B m2
75°	67°35"	105°	11.04	21.50	39.52	16.56	127	105
76°	68°35"	104°	11.25	21.12	39.82	16.77	129	101
77°	69°35"	103°	11.46	20.74	40.13	16.99	132	98
78°	70°35"	102°	11.68	20.38	40.43	17.21	134	94
79°	71°35"	101°	11.90	20.02	40.74	17.44	137	90
80°	72°35"	100°	12.12	19.66	41.05	17.67	140	87
81°	73°35"	99°	12.34	19.32	41.37	17.91	143	84
82°	74°35"	98°	12.57	18.98	41.68	18.15	145	80
83°	75°35"	97°	12.79	18.65	42.01	18.39	148	77
84°	76°35"	96°	13.03	18.33	42.33	18.64	151	74
85°	77°35"	95°	13.26	18.01	42.66	18.90	154	71
86°	78°35"	94°	13.50	17.69	42.99	19.16	157	69
87°	79°35"	93°	13.74	17.39	43.33	19.43	161	66
88°	80°35"	92°	13.99	17.09	43.67	19.70	164	63
89°	81°35"	91°	14.24	16.79	44.02	19.98	168	61
90°	82°35"	90°	14.49	16.50	44.37	20.27	171	58
91°	83°35"	89°	14.75	16.21	44.73	20.56	175	56
92°	84°35"	88°	15.01	15.93	45.09	20.86	178	54
93°	85°35"	87°	15.27	15.66	45.45	21.16	182	52
94°	86°35"	86°	15.54	15.39	45.83	21.47	186	50
95°	87°35"	85°	15.82	15.12	46.21	21.79	190	48
96°	88°35"	84°	16.10	14.86	46.59	22.11	195	46
97°	89°35"	83°	16.38	14.60	46.98	22.45	199	44
98°	90°35"	82°	16.67	14.34	47.38	22.79	203	42
99°	91°35"	81°	16.96	14.09	47.79	23.13	208	40
100°	92°35"	80°	17.26	13.85	48.20	23.49	213	38
101°	93°35"	79°	17.57	13.60	48.62	23.85	218	37
102°	94°35"	78°	17.88	13.36	49.05	24.23	223	35
103°	95°35"	77°	18.19	13.12	49.48	24.61	228	34
104°	96°35"	76°	18.51	12.89	49.93	25.00	233	32
105°	97°35"	75°	18.84	12.66	50.38	25.40	239	31



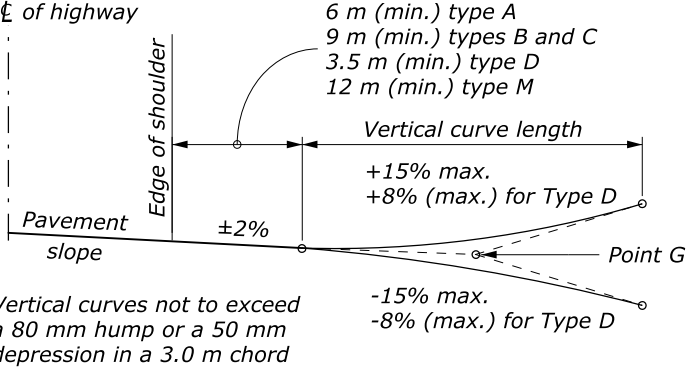
PLAN OF TYPE D APPROACH



PLAN OF TYPE M APPROACH



ROAD APPROACH LOCATIONS ON PLAN SHEETS



PROFILE OF TYPE A, B, C, D, M APPROACHES

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION WESTERN FEDERAL LANDS HIGHWAY DIVISION	
METRIC DETAIL	
WASHINGTON ROAD APPROACH	
DETAIL APPROVED FOR USE 2/2004	DETAIL
REVISED: DRAFT: 11/2014	MW200-80

NO SCALE