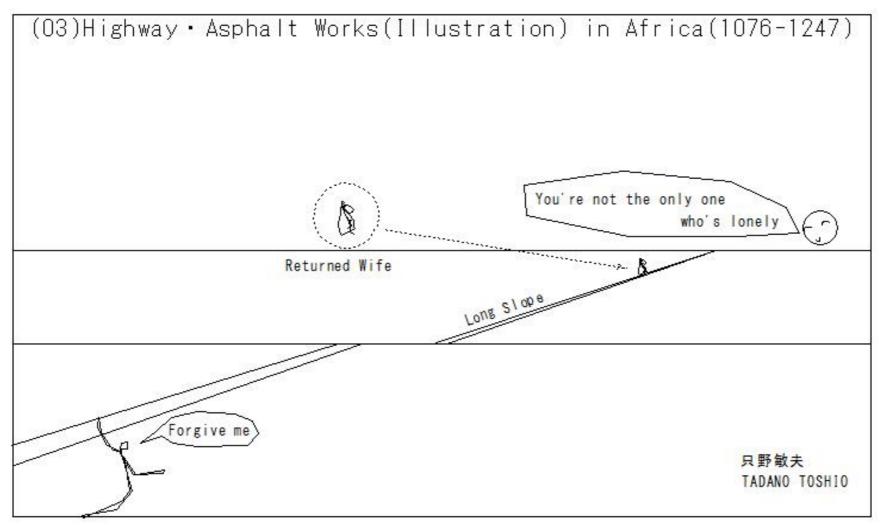
(03)Highway • Asphalt Works(Illustration) in Africa(1076-1247)



Reference 1 土木工学ハンドブック 土木学会編 Civil Engineering Handbook Edited by Japan Society of Civil Engineers 2 農業土木ハンドブック 農業土木学会編 Agricultural civil engineering handbook Japan Society of Agricultural Civil Engineers 3林業土木ハンドブック Forestry Civil Engineering Handbook 4 道路構造冷の解説と運用 (2003)Explanation and operation of road structure 5 応用地質用語集 Glossary of applied geological terms 6 実用英和対訳 土木用語辞典 Practical English-Japanese translation Dictionary of civil engineering terms 7 農業土木用語集 Glossary of agricultural civil engineering terms 8 土木施工用語集 Glossary of civil engineering construction terms 9 土木コンクリート用語集 Glossary of civil engineering and concrete terms 10 土木用語辞典 東京工学研究会編 Dictionary of civil engineering terms Edited by Tokyo Engineering Study Group 11 アスファルト混合物の知識(図解土木講座) Knowledge of asphalt mixture (illustrated civil engineering course) 12 日本道路協会:アスファルト舗装要綱 Japan Road Association: Asphalt pavement guidelines 13 図解 土質·基礎用語集 Illustrated Glossary of Soil Characteristics and Basic Terms 14 図解テキスト 土木一般 (1-5) Illustrated Text General civil engineering(1-5)

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只野敏夫 Tadano Toshio (H1076)Curve radius (H1077)Passenger car specifications table (H1078)Passenger car specifications table (H1079)Passenger car specifications table (H1080)Frequency of driving speed (H1081)Frequency of driving speed (H1082)Truck speed-gradient diagram (H1083)Truck speed-gradient diagram (H1084)Truck speed-gradient diagram (H1085)Travel distance-travel speed diagram (H1086)Traffic capacity - speed (H1087)Width-passing speed diagram (H1088)Width-passing speed diagram (H1089)Slow lane map (H1090)Sidewalk width - traffic volume map (H1091)Parking method diagram (H1092)Parking method diagram (H1093)Parking method diagram (H1094)Construction limit (H1095)Curved running diagram (H1096) Degree markings for curves (H1097) Curve radius - Super gradient (H1098) Curve length and intersection angle (H1099) Intersection Angle (H1100) Transition curve (H1101) Amount of transition (H1102) Curve radius - Length of Transition section (H1103) transition a single slope (H1104) widening (H1105) widening (H1106) compound curve (H1107) compound curve (H1108) compound curve (H1109) Climbing ability chart (H1110) Vertical curve

Curve radius Passenger car specifications table Passenger car specifications table Passenger car specifications table Frequency of driving speed Frequency of driving speed Truck speed-gradient diagram Truck speed-gradient diagram Truck speed-gradient diagram Travel distance-travel speed diagram Traffic capacity - speed Width-passing speed diagram Width-passing speed diagram Slow lane map Sidewalk width - traffic volume map Parking method diagram Parking method diagram Parking method diagram Construction limit Curved running diagram Degree markings for curves Curve radius - Super gradient Curve length and intersection angle Intersection Angle Transition curve Amount of transition Curve radius - Length of Transition section transition a single slope widenina widening compound curve compound curve compound curve Climbing ability chart Vertical curve

(H1111) Sight distance (visible distance) (H1112) Sight distance (visible distance) (H1113) Plane curves and sightlines (H1114) Longitudinal curves and viewing distances (H1115) sight distance (H1116) Intersection (H1117) Intersection (H1118) Intersection (H1119) Intersection (H1120) Intersection (H1121) Intersection (H1122) Intersection (H1123) Intersection (H1124) Earthwork (H1125) Earthwork (H1126) Earthwork (H1127) Drainage (H1128) Drainage (H1129) Drainage (H1130) Drainage (H1131) Drainage (H1132) Drainage (H1133) Drainage (H1134) Drainage (H1135) Drainage (H1136) Drainage (H1137) Drainage (H1138) Drainage (H1139) Retaining wall (H1140) Retaining wall (H1141) Retaining wall (H1142) Retaining wall (H1143) Retaining wall (H1144) Retaining wall

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(H1145) Retaining wall (H1146) Bituminous pavement (H1147) Bituminous pavement (H1148) Bituminous pavement (H1149) Bituminous pavement (H1150) Bituminous pavement (H1151) Bituminous pavement (H1152) Bituminous pavement (H1153) Concrete paving (H1154) Concrete paving (H1155) Concrete paving (H1156) Concrete paving (H1157) Concrete paving (H1158) Block paving (H1159) Block paving (H1160) Asphalt plant (H1161) Sign (H1162) Sign (H1163) Sign (H1164) Sign (H1165) Sign (H1166) Sign (H1167) Sign (H1168) Sign (H1169) Sign (H1170) Sign (H1171) Sign (H1172) Sign (H1173) Sign (H1174) Angle measurement (H1175) Angle measurement (H1176) Angle measurement (H1177) Angle measurement (H1178) Angle measurement

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(H1179) Angle measurement (H1180) Surveying curves (H1181) Surveying curves (H1182) Surveying curves (H1183) Surveying curves (H1184) Surveying curves (H1185) Surveying curves (H1186) Surveying curves (H1187) Surveying curves (H1188) Surveying curves (H1189) Surveying curves (H1190) Surveying curves (H1191) Surveying curves (H1192) Surveying curves (H1193) Surveying curves (H1194) Surveying curves (H1195) Surveying curves (H1196) Curved section widening (H1197) Widening of curved sections (H1198) Plane linear element (H1199) Transition curve (H1200) Longitudinal curve and sight distance (H1201) Ensuring horizontal visibility (H1202) Overtaking sight distance (H1203) Braking and stopping sight distance and minimum overtaking sight distance (H1204) Corner cutting of farm roads (H1205) Types and structures of pavement on farm roads (H1206) Types and structures of pavement on farm roads (H1207) Types and structures of pavement on farm roads (H1208) Types and structures of pavement on farm roads (H1209) Transition curve (H1210) Curvature diagram(curve band diagram) (H1211) Clothoid (H1212) Clothoid

Angle measurement Surveying curves Curved section widening Widening of curved sections Plane linear element Transition curve Longitudinal curve and sight distance Ensuring horizontal visibility Overtaking sight distance Braking and stopping sight distance Corner cutting of farm roads Types and structures of pavement Transition curve Curvature diagram(curve band diagram) Clothoid Clothoid

(H1213) Clothoid (H1214) deceleration line (H1215) Rigid paving (H1216) sight distance (H1217) sight distance (H1218) Shift (H1219) Slack (H1220) transition (H1221) Longitudinal line (H1222) simple curve (H1223) alignment of road (H1224) Reverse curve (H1225) Compound curve (H1226) curve band (H1227) method of deflection angle (H1228) speed change lane (H1229) route surveying (H1230) route surveying (H1231) route surveying (H1232) Cant, slope, superelevation (H1233) transition curve (H1234) intersection (H1235) horizontal visibility (H1236) longitudinal sight distance (H1237) Overtaking sight distance (H1238) Braking and stopping sight distance (H1239) vertical alignment (H1240) Horizontal alignment (H1241) Diamond-shaped interchange (H1242) Trumpet-shaped interchange (H1243) Incomplete cloverleaf-shaped interchange (H1244) Cloverleaf interchange (H1245) rotary type interchange (H1246) Y type interchange

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(H1247) mixing work on the way

mixing work on the way

(H1099) Intersection Angle (H1223) alignment of road (H1101) Amount of transition (H1174) Angle measurement (H1175) Angle measurement (H1176) Angle measurement (H1177) Angle measurement (H1178) Angle measurement (H1179) Angle measurement (H1160) Asphalt plant (H1146) Bituminous pavement (H1147) Bituminous pavement (H1148) Bituminous pavement (H1149) Bituminous pavement (H1150) Bituminous pavement (H1151) Bituminous pavement (H1152) Bituminous pavement (H1158) Block paving (H1159) Block paving (H1238) Braking and stopping sight distance (H1203) Braking and stopping sight distance and minimum overtaking sight distance (H1232) Cant, slope, superelevation (H1109) Climbing ability chart (H1211) Clothoid (H1212) Clothoid (H1213) Clothoid (H1106) compound curve (H1107) compound curve (H1108) compound curve (H1225) Compound curve (H1153) Concrete paving (H1154) Concrete paving (H1155) Concrete paving (H1156) Concrete paving (H1157) Concrete paving

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(H1094)Construction limit (H1204) Corner cutting of farm roads (H1210) Curvature diagram(curve band diagram) (H1226) curve band (H1098) Curve length and intersection angle (H1076)Curve radius (H1102) Curve radius - Length of Transition section (H1097) Curve radius - Super gradient (H1095)Curved running diagram (H1196) Curved section widening (H1214) deceleration line (H1096) Degree markings for curves (H1127) Drainage (H1128) Drainage (H1129) Drainage (H1130) Drainage (H1131) Drainage (H1132) Drainage (H1133) Drainage (H1134) Drainage (H1135) Drainage (H1136) Drainage (H1137) Drainage (H1138) Drainage (H1124) Earthwork (H1125) Earthwork (H1126) Earthwork (H1201) Ensuring horizontal visibility (H1080)Frequency of driving speed (H1081)Frequency of driving speed (H1240) Horizontal alignment (H1235) horizontal visibility (H1241) Diamond-shaped interchange (H1242) Trumpet-shaped interchange

Construction limit Corner cutting of farm roads Curvature diagram(curve band diagram) curve band Curve length and intersection angle Curve radius Curve radius - Length of Transition section Curve radius - Super gradient Curved running diagram Curved section widening deceleration line Degree markings for curves Drainage Earthwork Earthwork Earthwork Ensuring horizontal visibility Frequency of driving speed Frequency of driving speed Horizontal alignment horizontal visibility interchange interchange

(H1243) Incomplete cloverleaf-shaped interchange (H1244) Cloverleaf interchange (H1245) rotary type interchange (H1246) Y type interchange (H1116) Intersection (H1117) Intersection (H1118) Intersection (H1119) Intersection (H1120) Intersection (H1121) Intersection (H1122) Intersection (H1123) Intersection (H1234) intersection (H1200) Longitudinal curve and sight distance (H1114) Longitudinal curves and viewing distances (H1221) Longitudinal line (H1236) longitudinal sight distance (H1227) method of deflection angle (H1247) mixing work on the way (H1202) Overtaking sight distance (H1237) Overtaking sight distance (H1091)Parking method diagram (H1092)Parking method diagram (H1093)Parking method diagram (H1077)Passenger car specifications table (H1078)Passenger car specifications table (H1079)Passenger car specifications table (H1113) Plane curves and sightlines (H1198) Plane linear element (H1139) Retaining wall (H1140) Retaining wall (H1141) Retaining wall (H1142) Retaining wall (H1143) Retaining wall

interchange interchange interchange interchange Intersection Intersection Intersection Intersection Intersection Intersection Intersection Intersection intersection Longitudinal curve and sight distance Longitudinal curves and viewing distances Longitudinal line longitudinal sight distance method of deflection angle mixing work on the way Overtaking sight distance Overtaking sight distance Parking method diagram Parking method diagram Parking method diagram Passenger car specifications table Passenger car specifications table Passenger car specifications table Plane curves and sightlines Plane linear element Retaining wall Retaining wall Retaining wall Retaining wall Retaining wall

(H1144) Retaining wall (H1145) Retaining wall (H1224) Reverse curve (H1215) Rigid paving (H1229) route surveying (H1230) route surveying (H1231) route surveying (H1218) Shift (H1090)Sidewalk width - traffic volume map (H1115) sight distance (H1216) sight distance (H1217) sight distance (H1111) Sight distance (visible distance) (H1112) Sight distance (visible distance) (H1161) Sign (H1162) Sign (H1163) Sign (H1164) Sign (H1165) Sign (H1166) Sign (H1167) Sign (H1168) Sign (H1169) Sign (H1170) Sign (H1171) Sign (H1172) Sign (H1173) Sign (H1222) simple curve (H1219) Slack (H1089)Slow lane map (H1228) speed change lane (H1180) Surveying curves (H1181) Surveying curves (H1182) Surveying curves

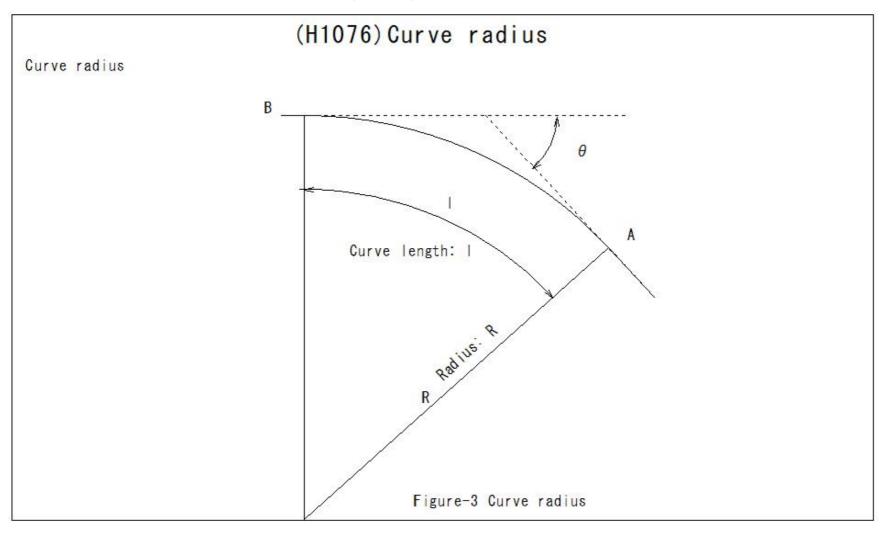
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(H1183) Surveying curves (H1184) Surveying curves (H1185) Surveying curves (H1186) Surveying curves (H1187) Surveying curves (H1188) Surveying curves (H1189) Surveying curves (H1190) Surveying curves (H1191) Surveying curves (H1192) Surveying curves (H1193) Surveying curves (H1194) Surveying curves (H1195) Surveying curves (H1086)Traffic capacity - speed (H1220) transition (H1103) transition a single slope (H1233) transition curve (H1199) Transition curve (H1209) Transition curve (H1100) Transition curve (H1085)Travel distance-travel speed diagram (H1082)Truck speed-gradient diagram (H1083)Truck speed-gradient diagram (H1084)Truck speed-gradient diagram (H1205) Types and structures of pavement on farm roads (H1206) Types and structures of pavement on farm roads (H1207) Types and structures of pavement on farm roads (H1208) Types and structures of pavement on farm roads (H1239) vertical alignment (H1110) Vertical curve (H1104) widening (H1105) widening (H1197) Widening of curved sections (H1087)Width-passing speed diagram

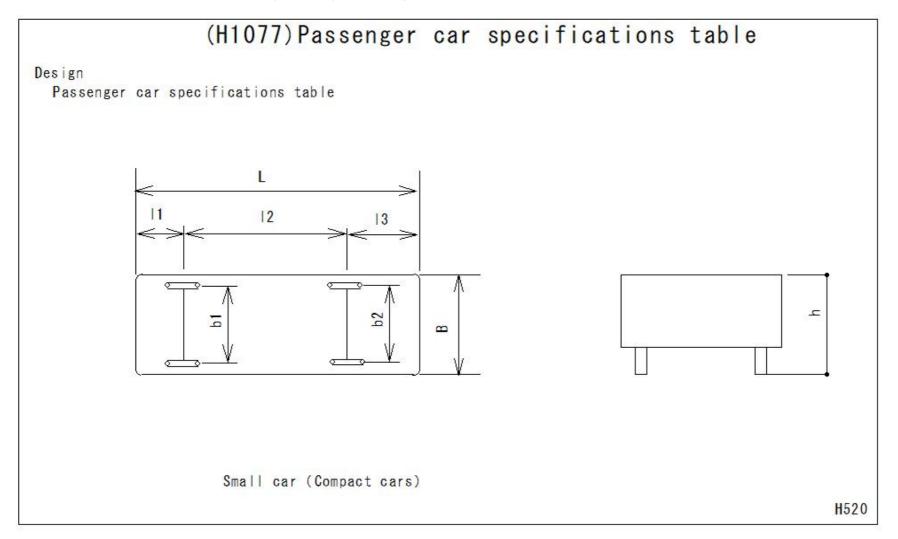
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(H1088)Width-passing speed diagram

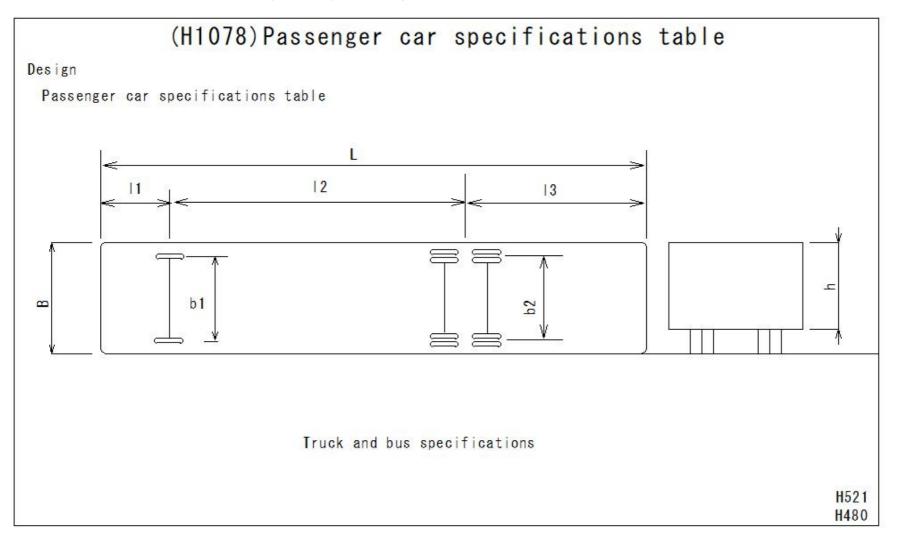
Width-passing speed diagram



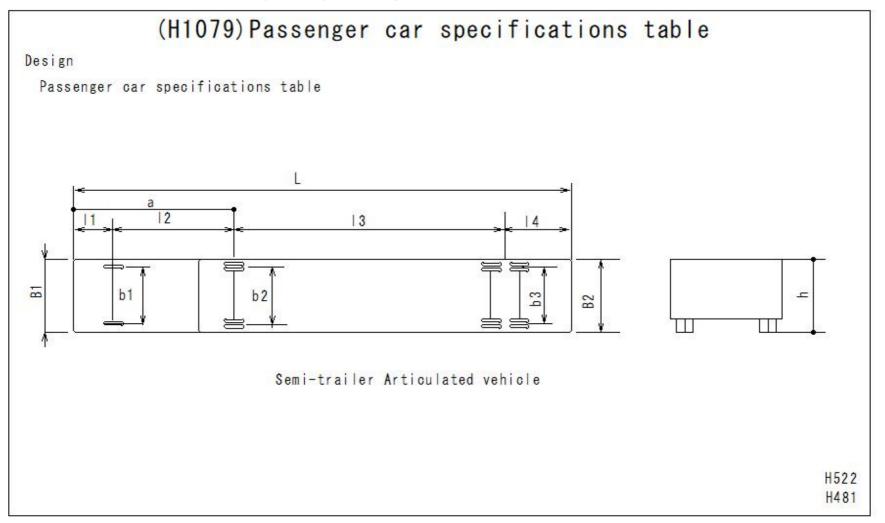
(H1077)Passenger car specifications table



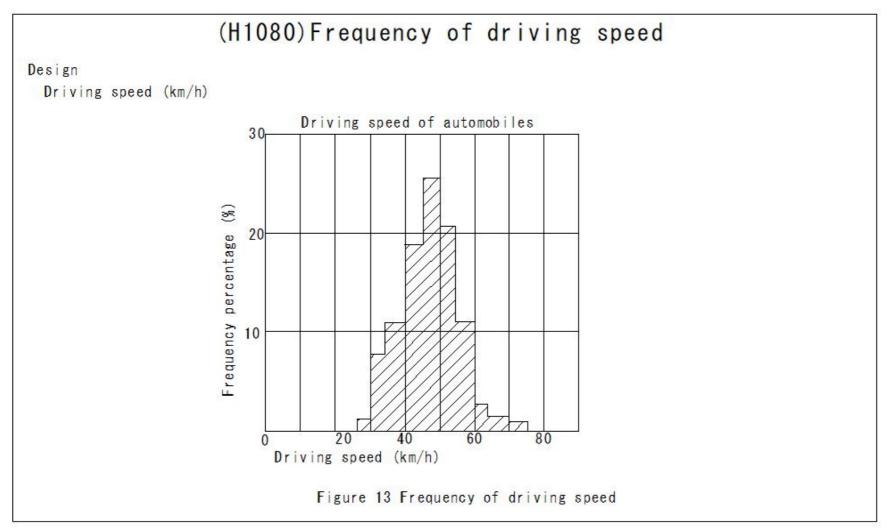
(H1078)Passenger car specifications table



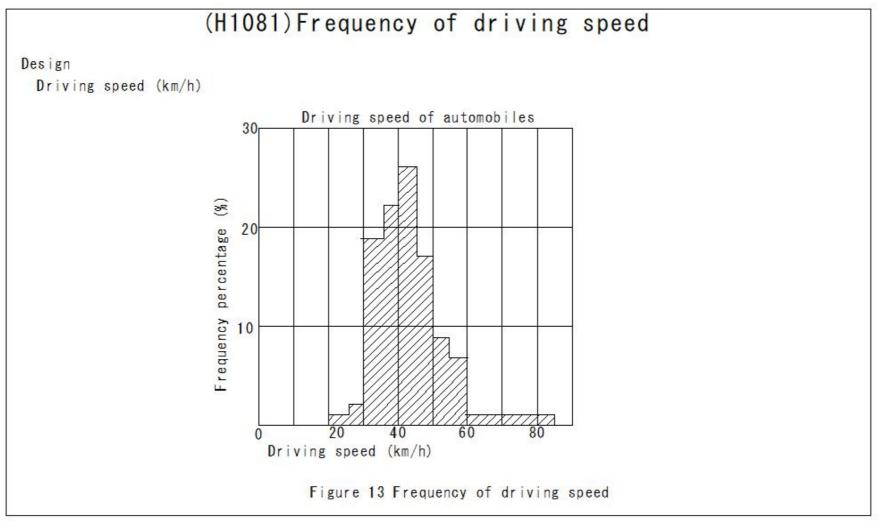
(H1079)Passenger car specifications table



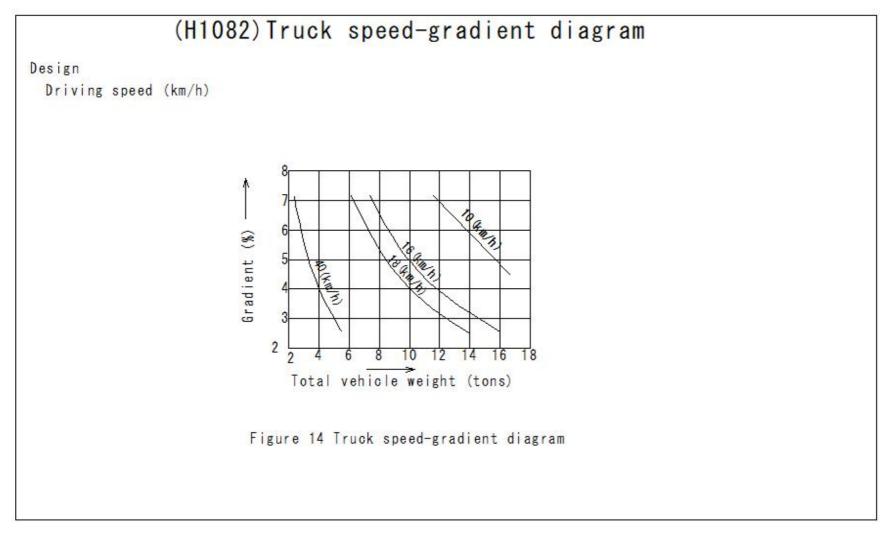
(H1080)Frequency of driving speed



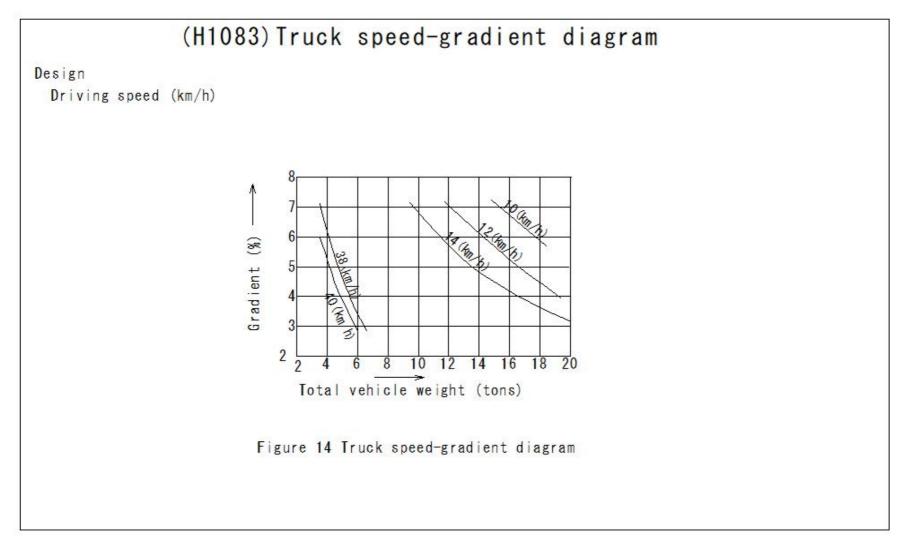
(H1081)Frequency of driving speed



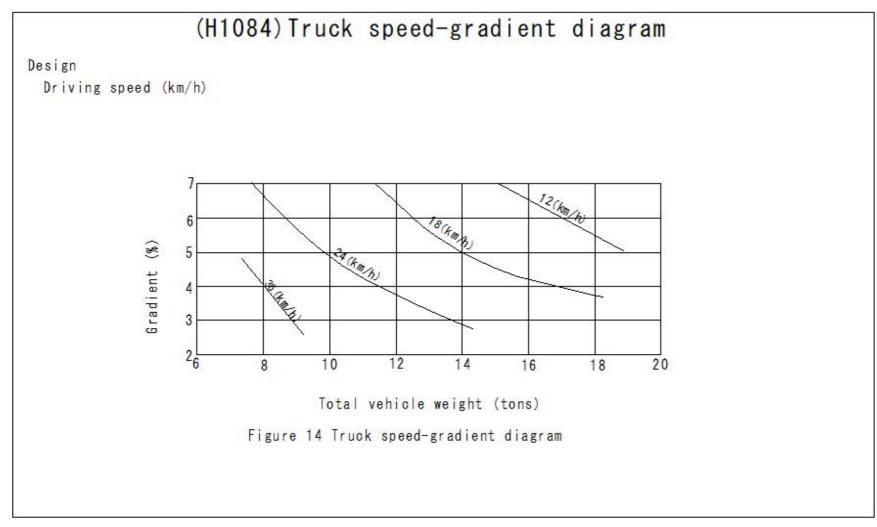
(H1082)Truck speed-gradient diagram



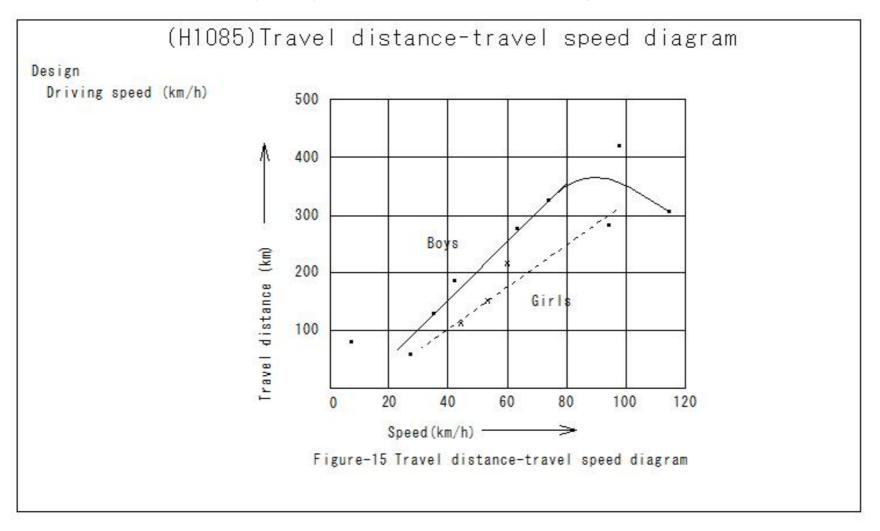
(H1083)Truck speed-gradient diagram



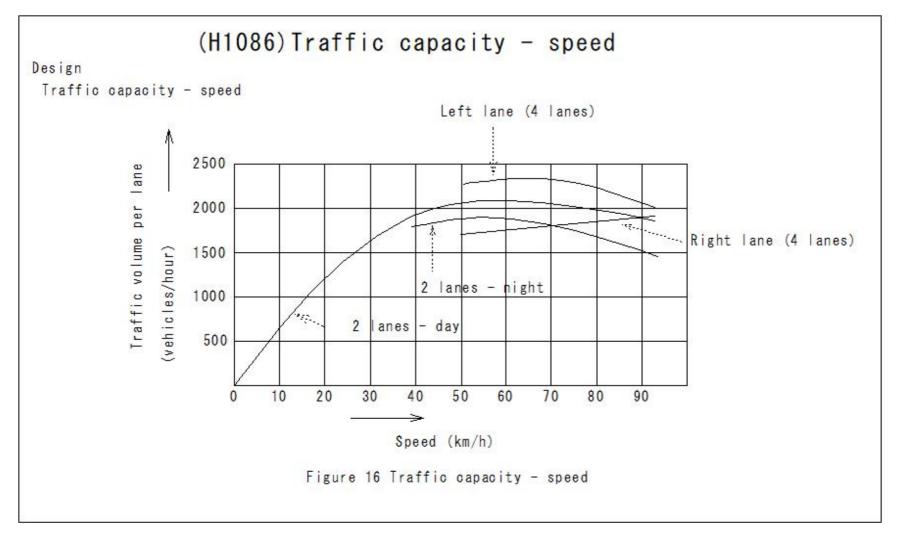
(H1084)Truck speed-aradient diaaram



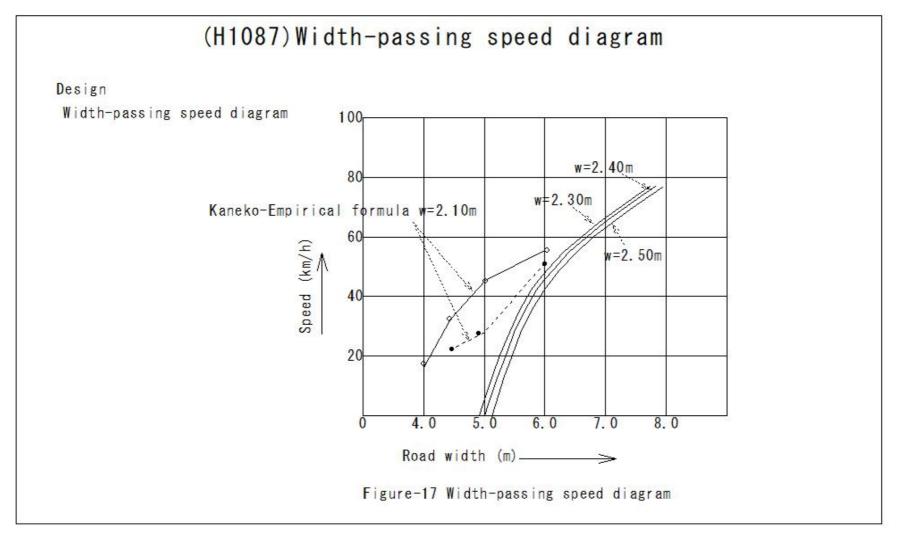
(H1085)Travel distance-travel speed diagram



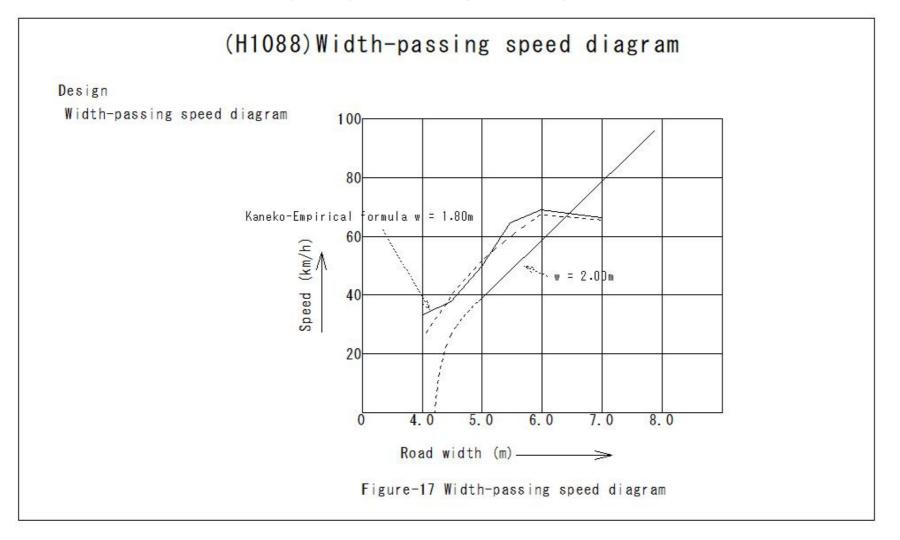
(H1086)Traffic capacity - speed



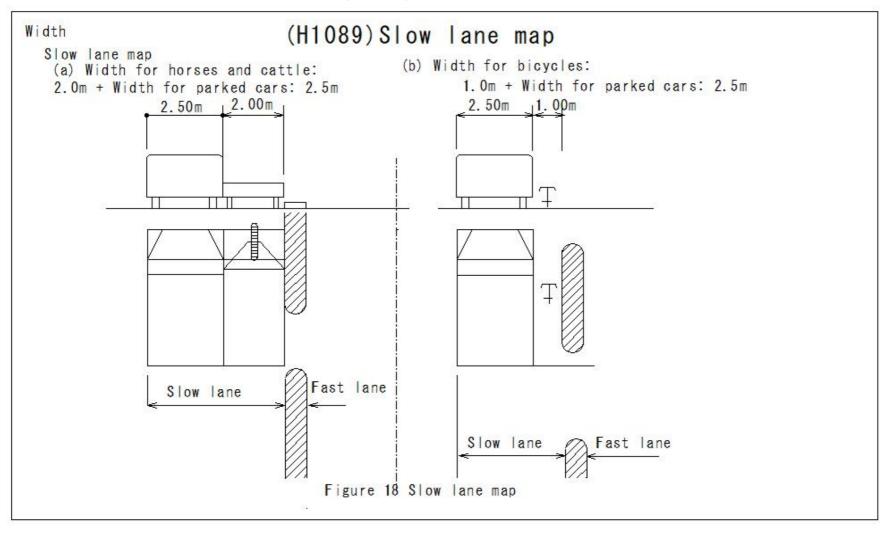
(H1087)Width-passing speed diagram



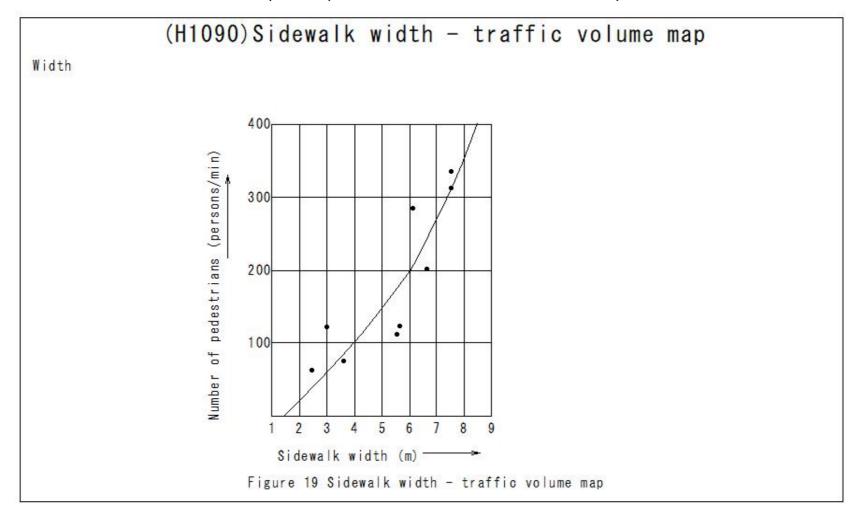
(H1088)Width-passing speed diagram



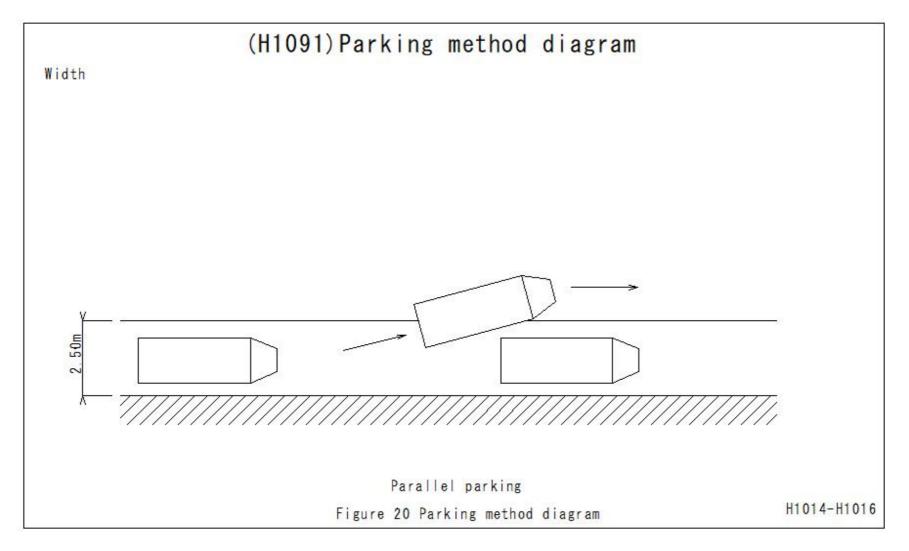
(H1089)Slow lane map



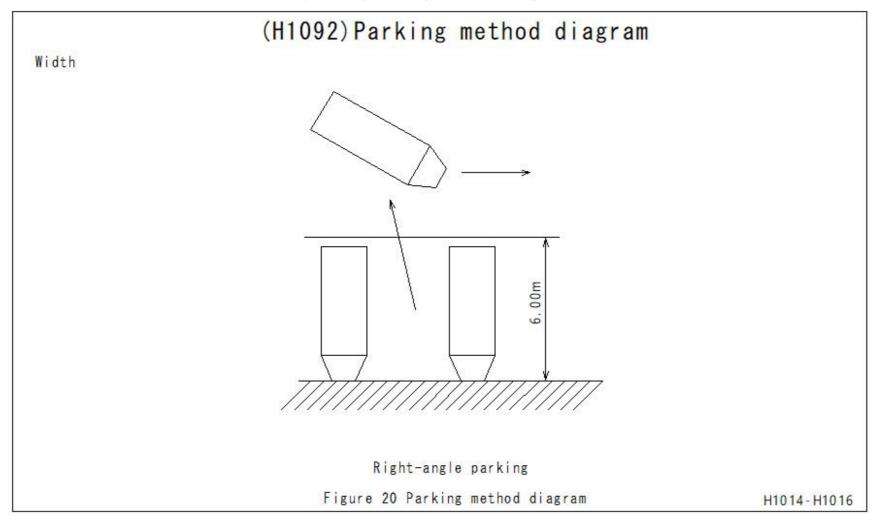
(H1090)Sidewalk width - traffic volume map



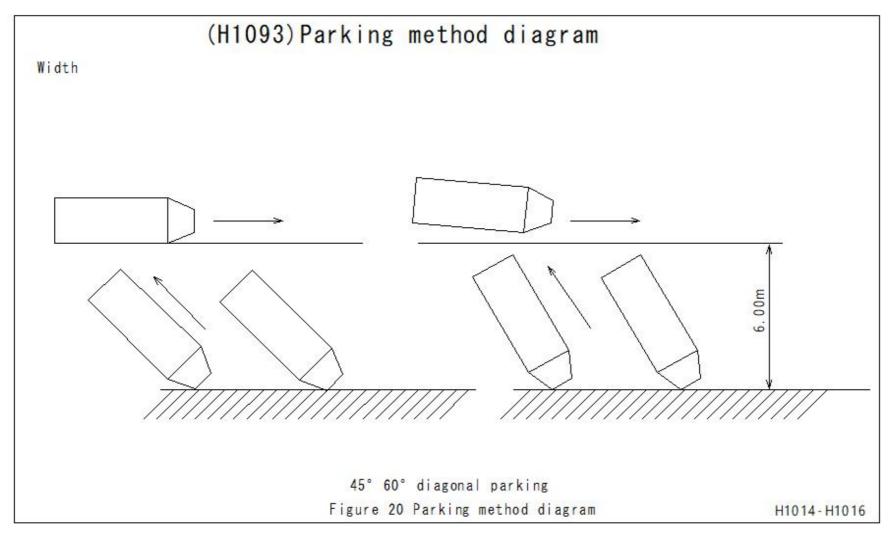
(H1091)Parking method diagram

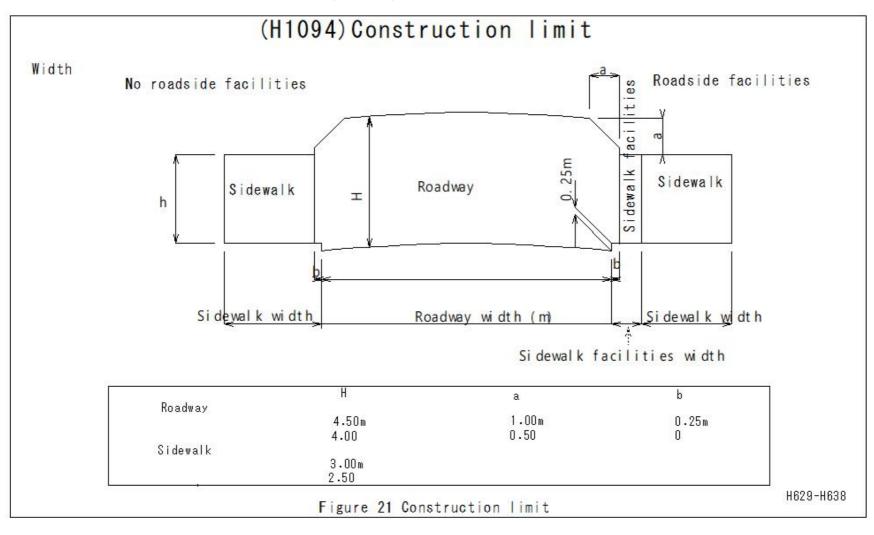


(H1092)Parking method diagram

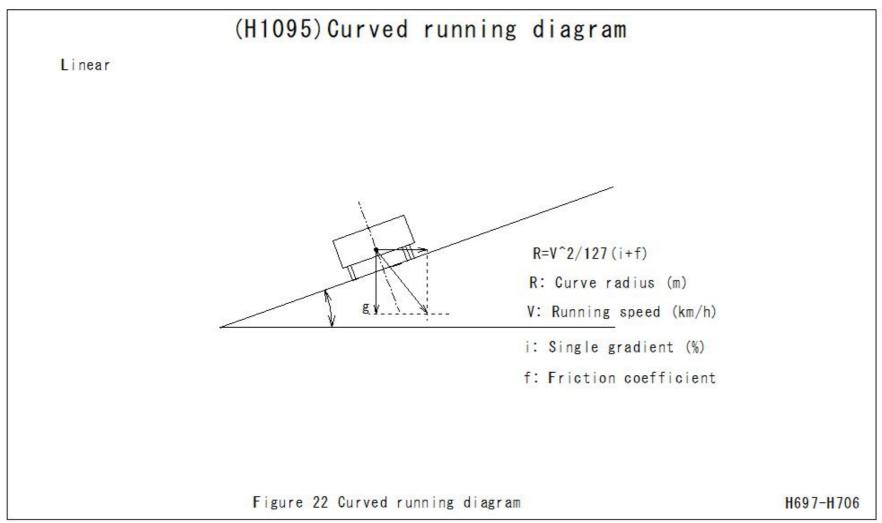


(H1093)Parking method diagram

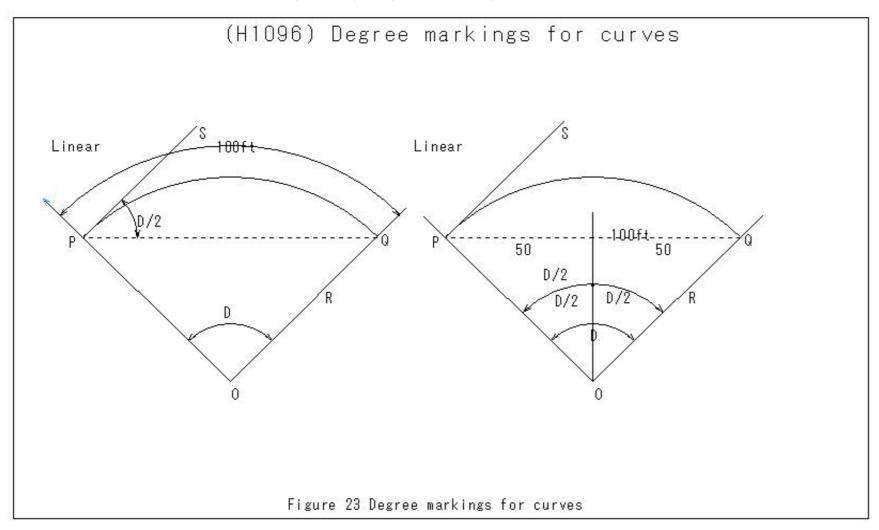




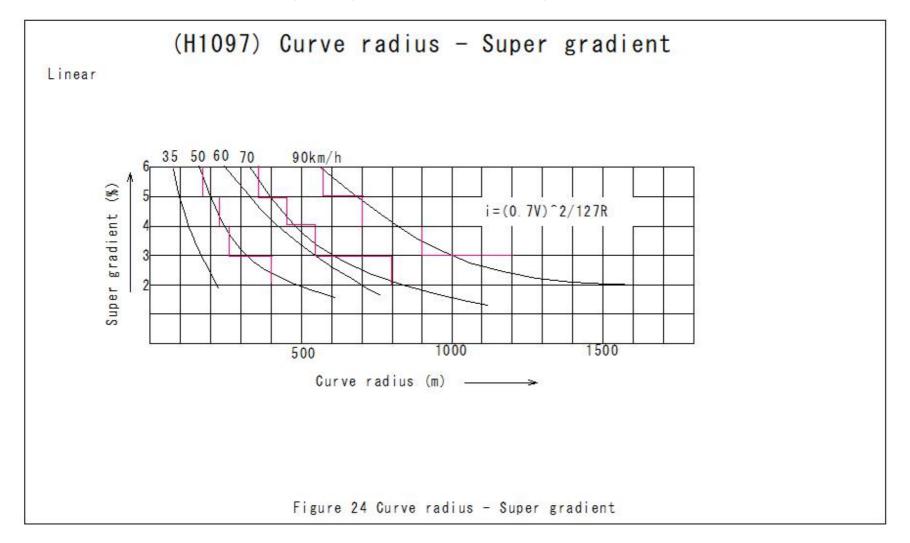
(H1095)Curved running diagram



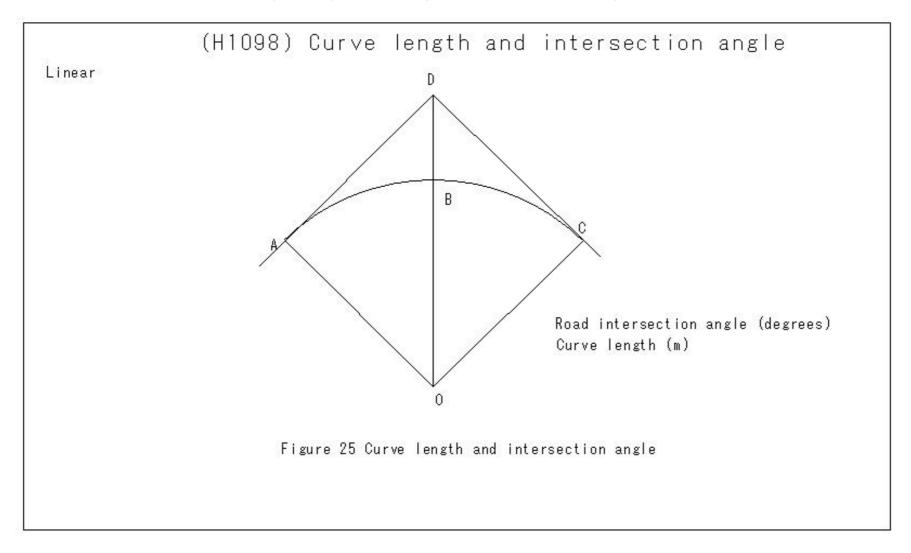
(H1096) Degree markings for curves

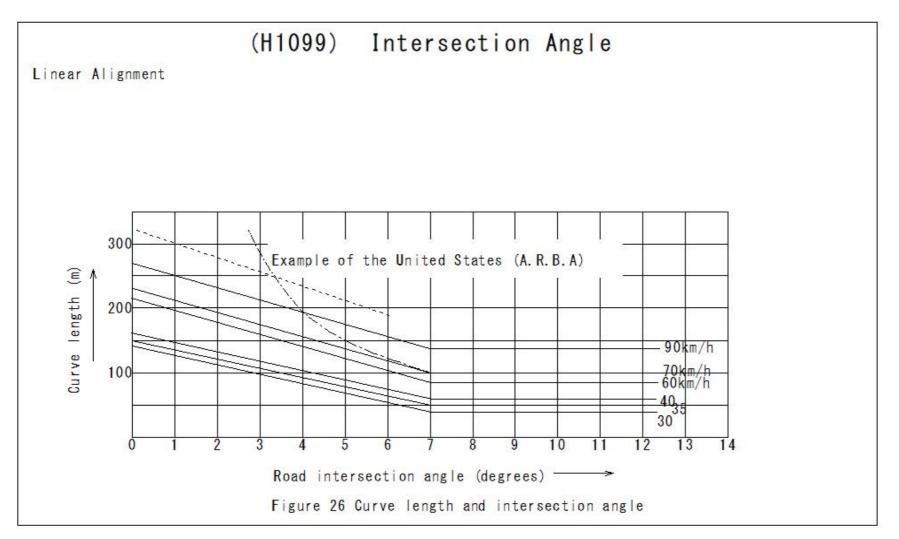


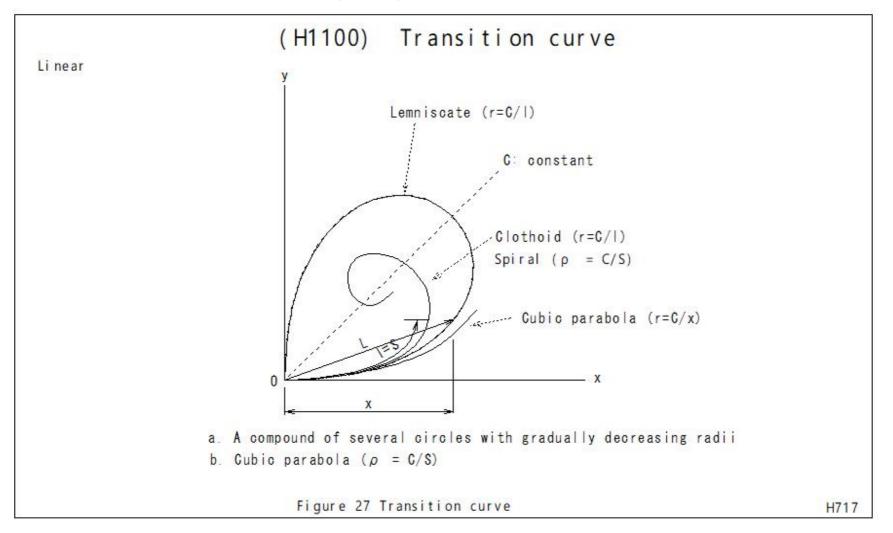
(H1097) Curve radius - Super gradient



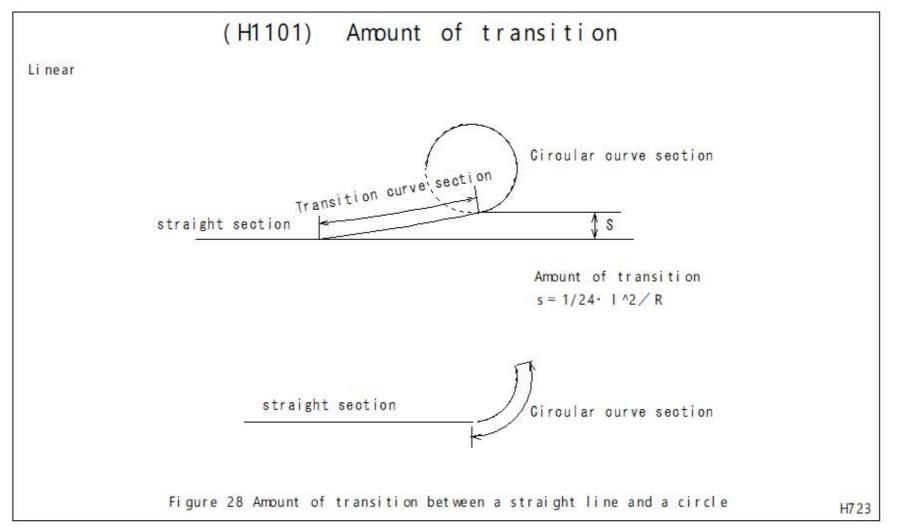
(H1098) Curve length and intersection angle

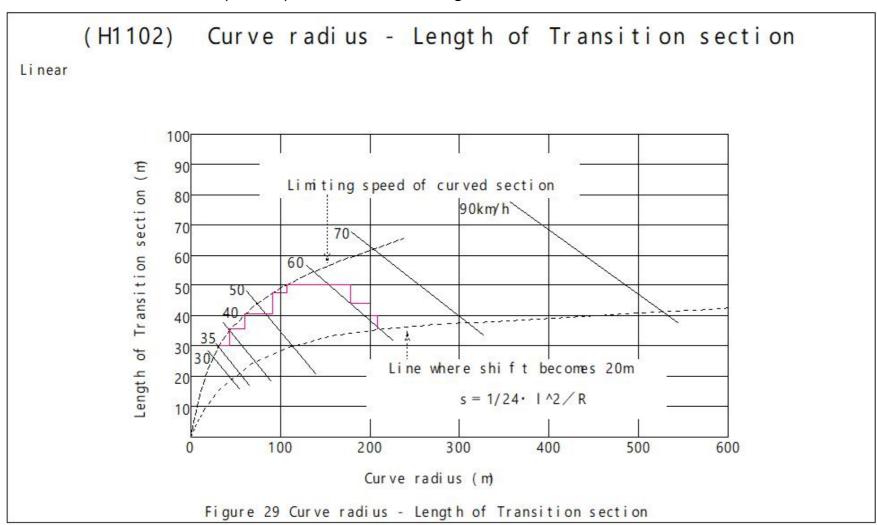






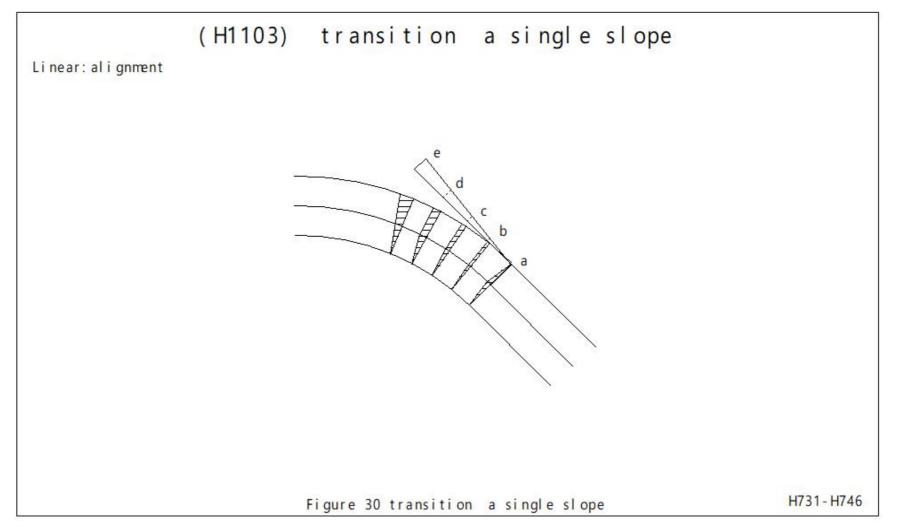
(H1101) Amount of transition

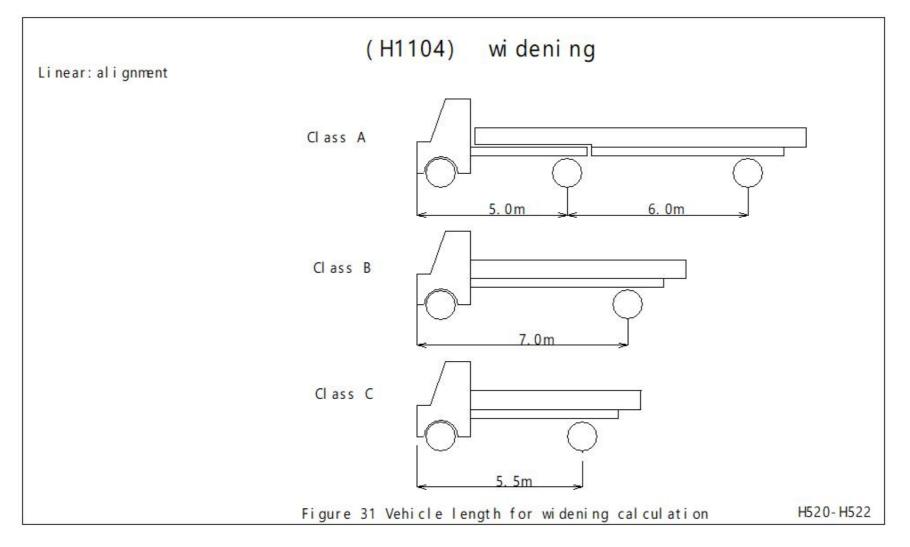


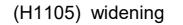


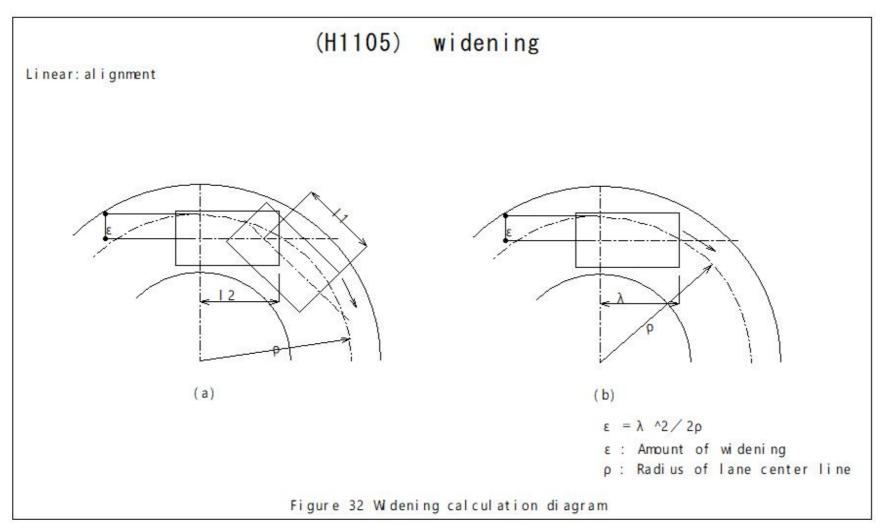
(H1102) Curve radius - Length of Transition section

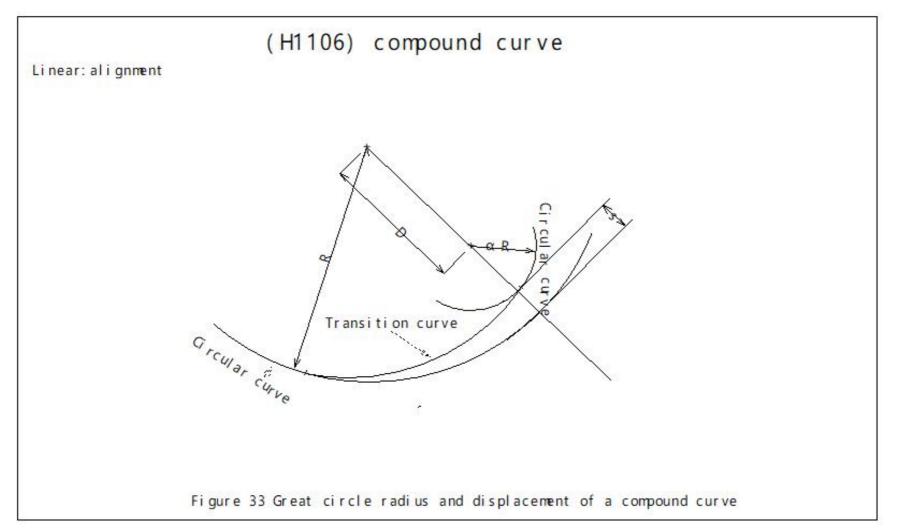
(H1103) transition a single slope

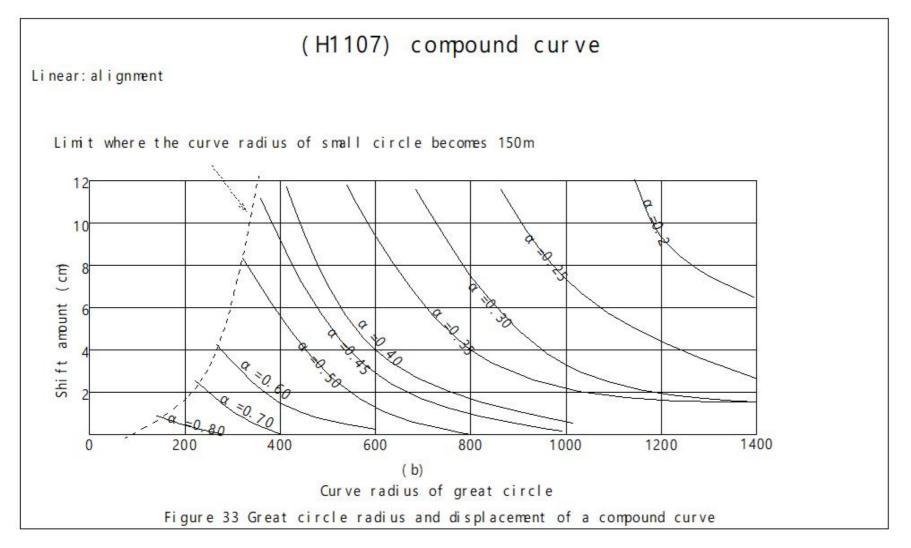


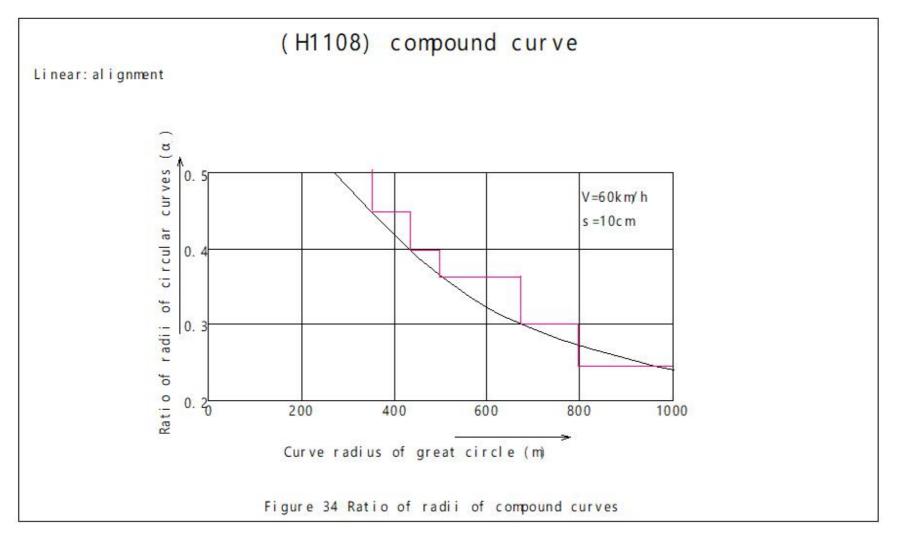


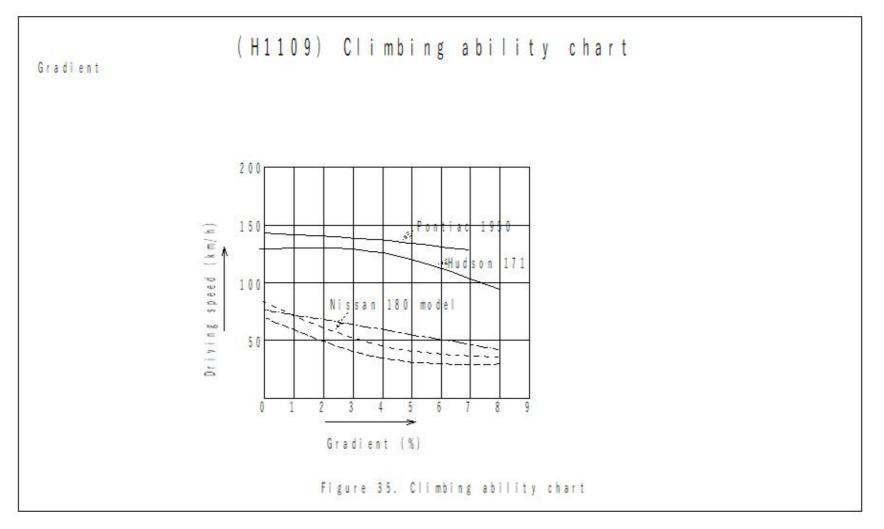




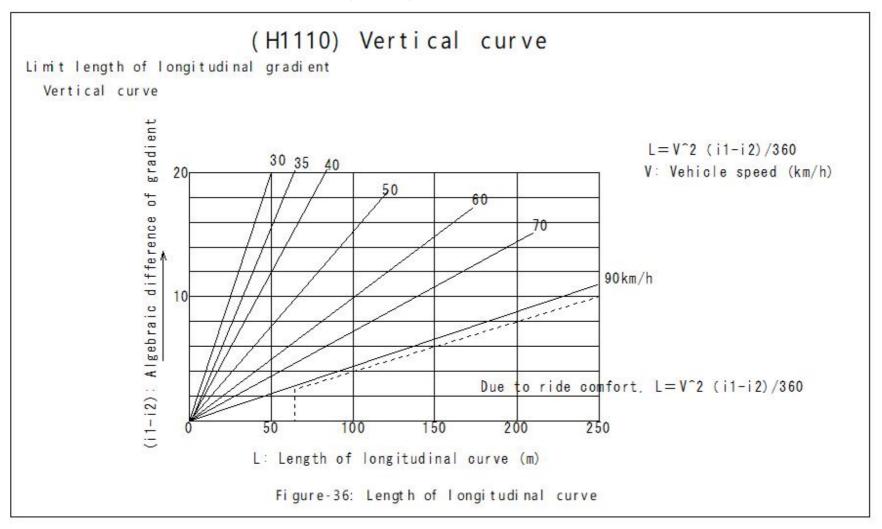




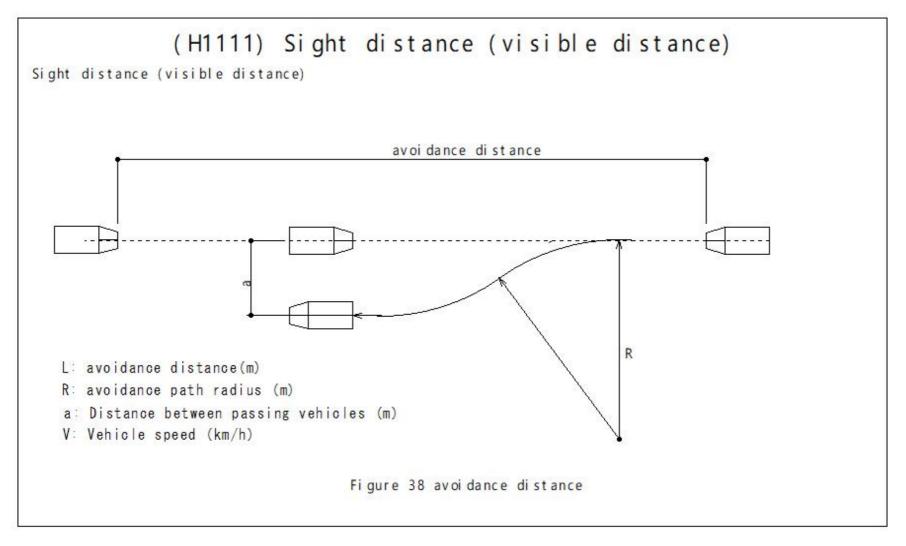




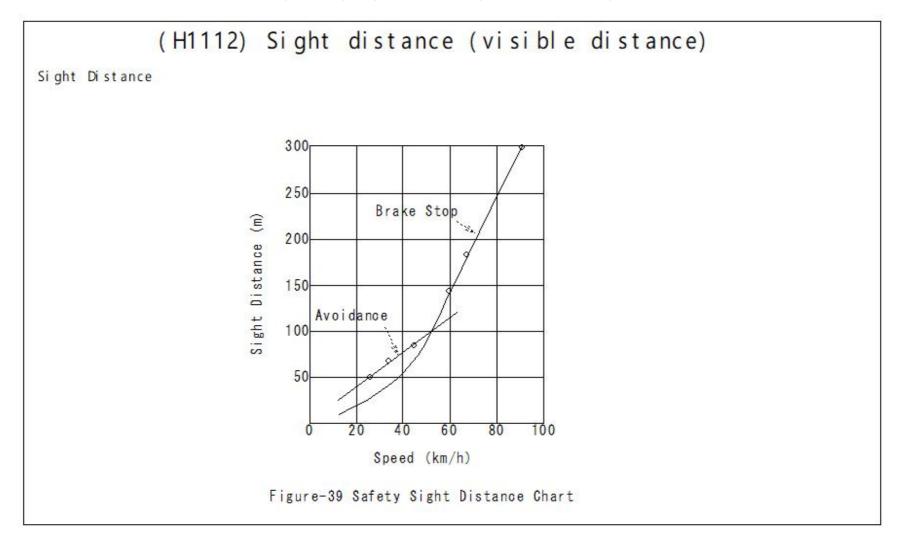




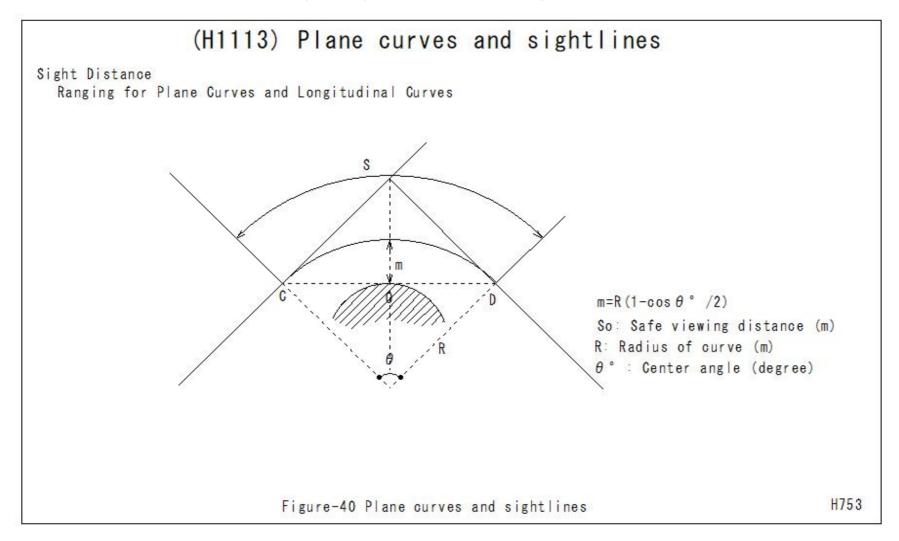
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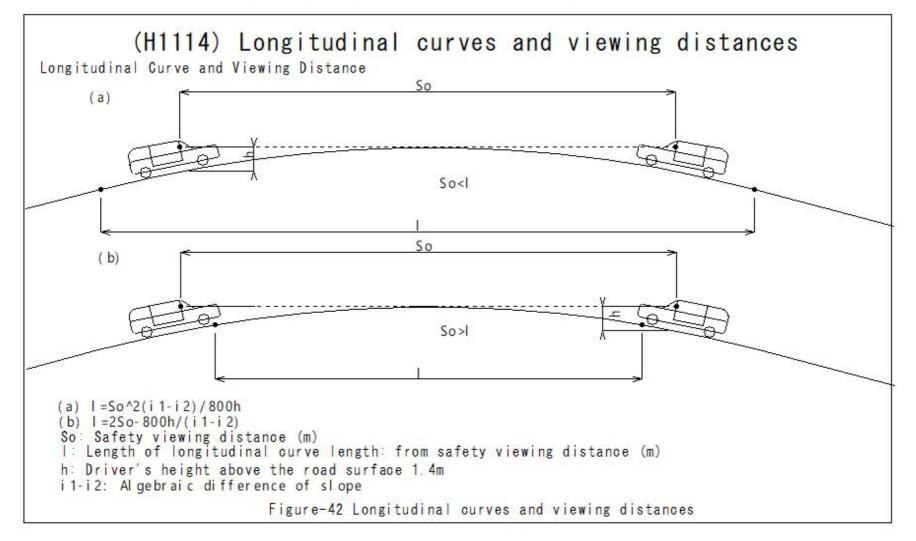
(H1112) Sight distance (visible distance)

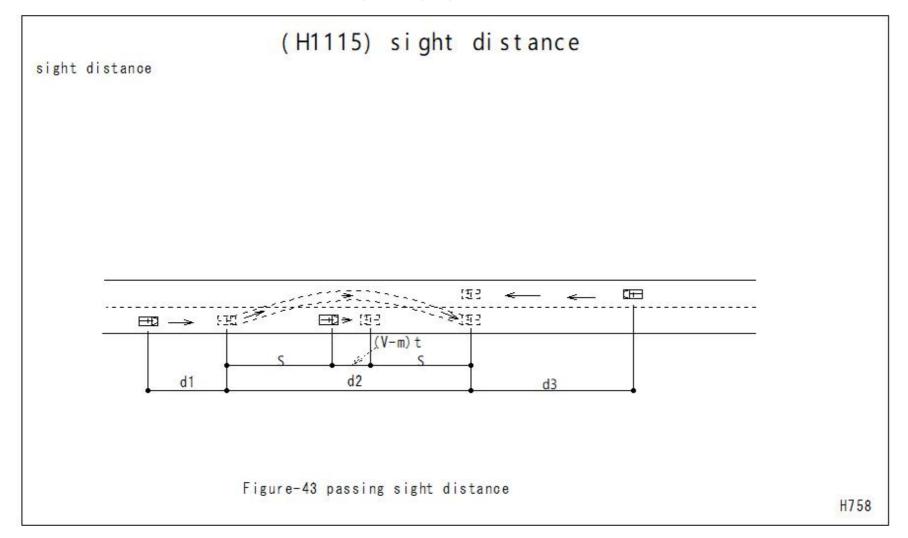


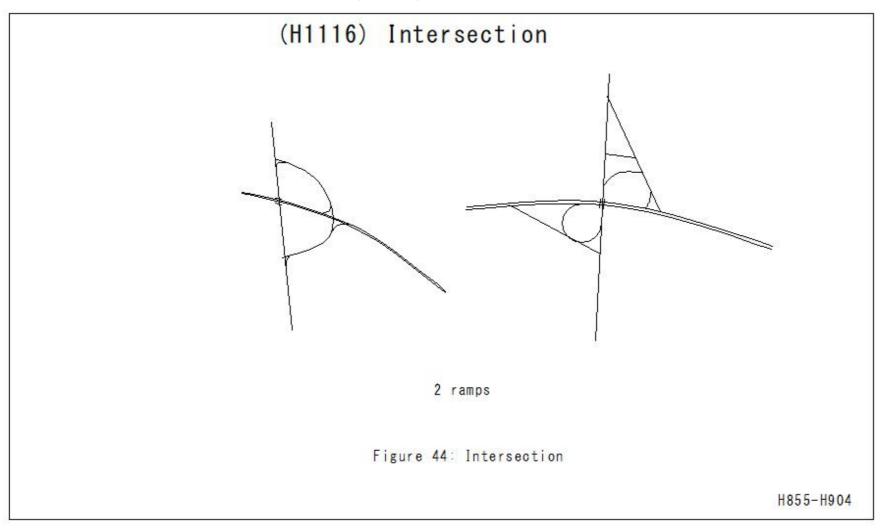
(H1113) Plane curves and sightlines

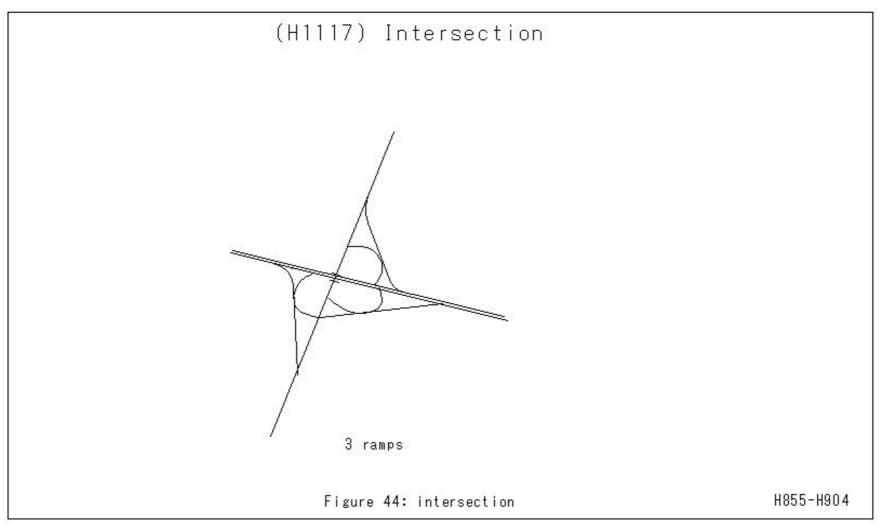


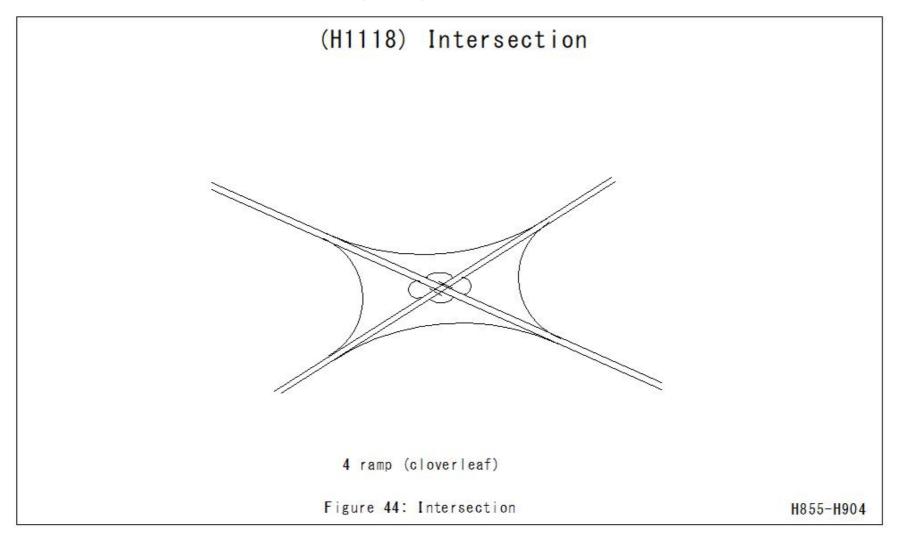
(H1114) Longitudinal curves and viewing distances

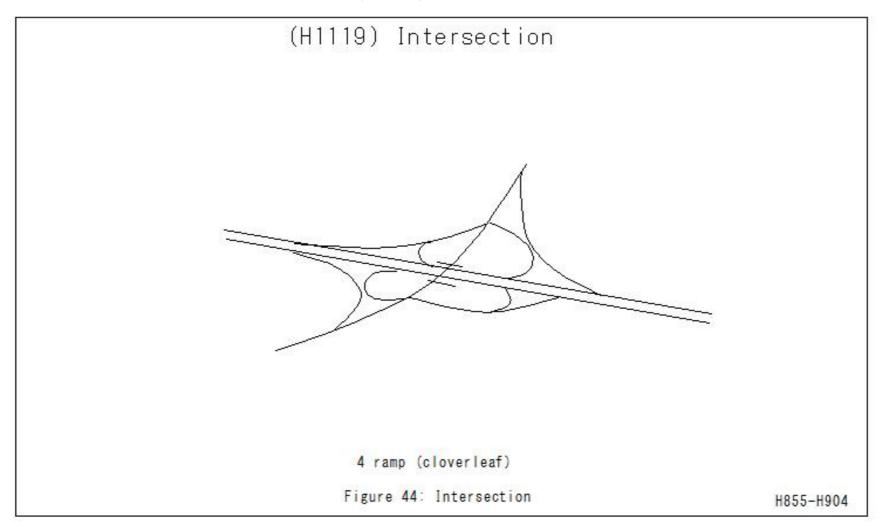


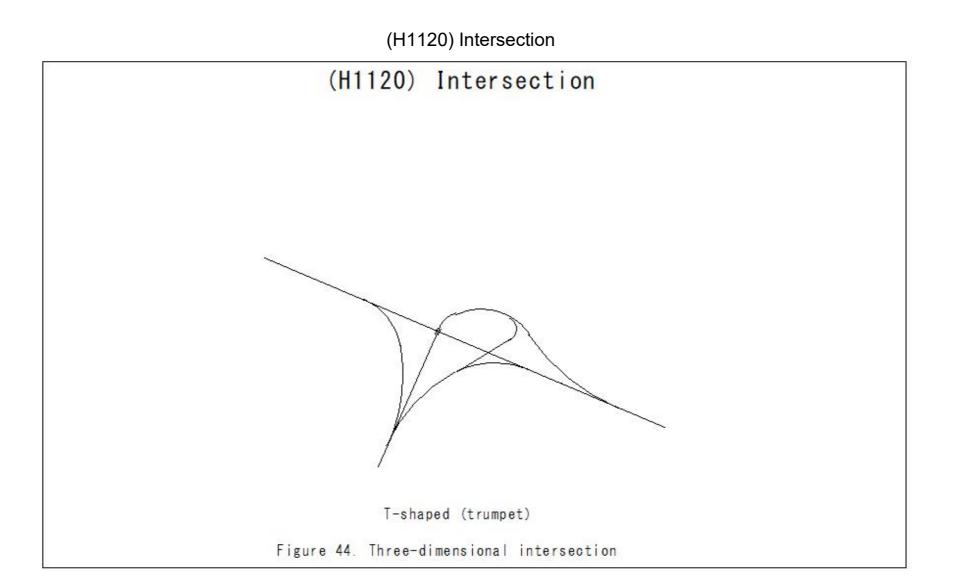




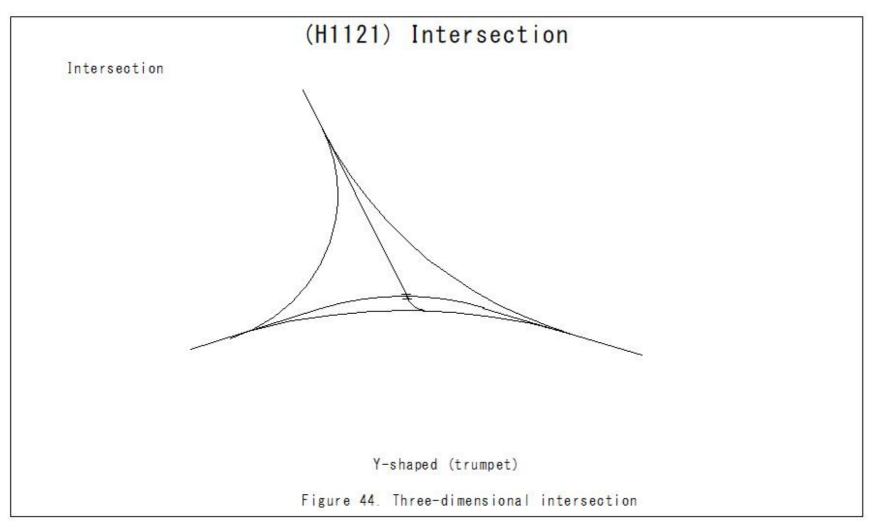


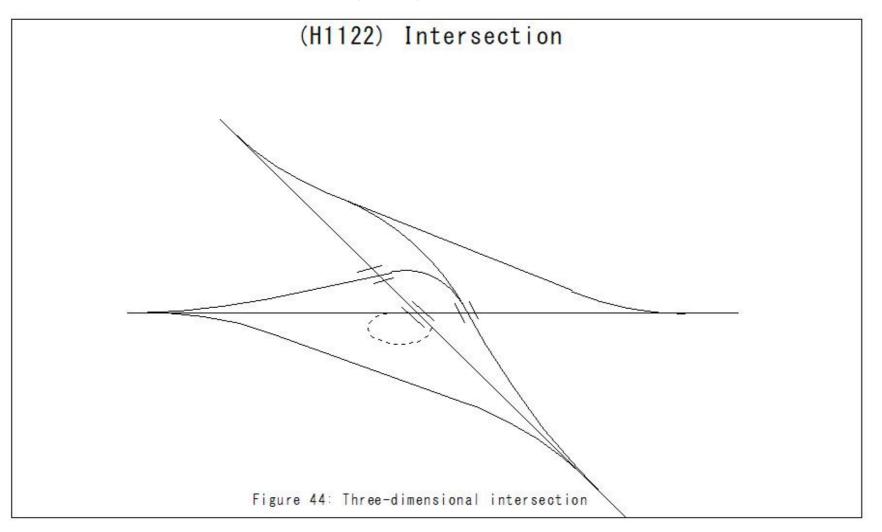




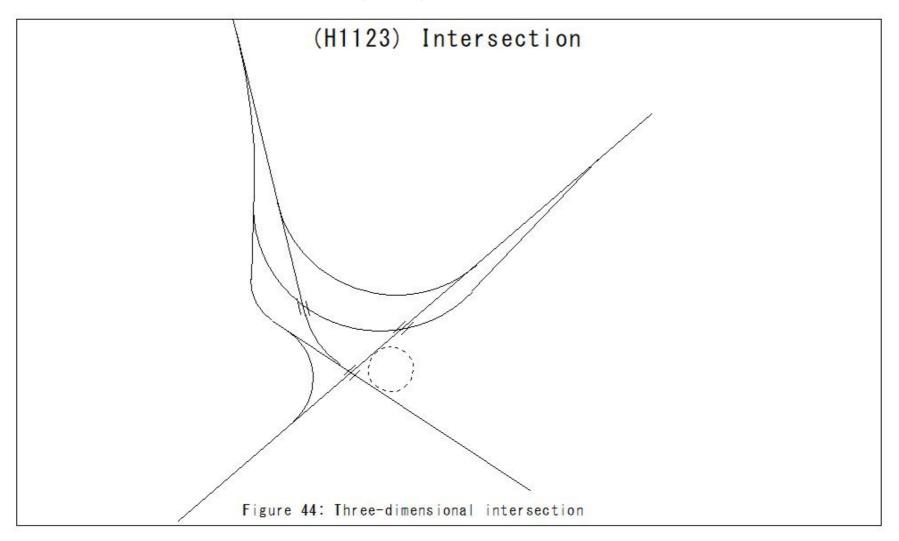


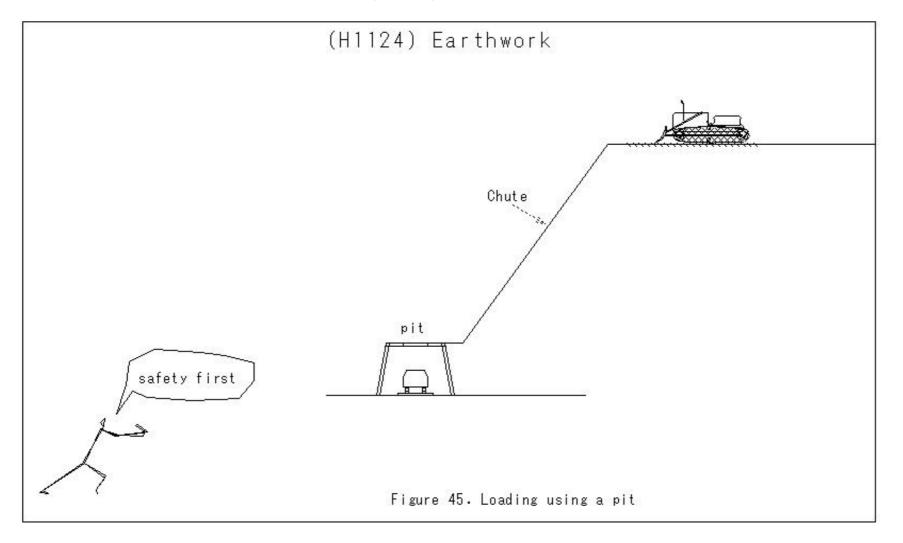


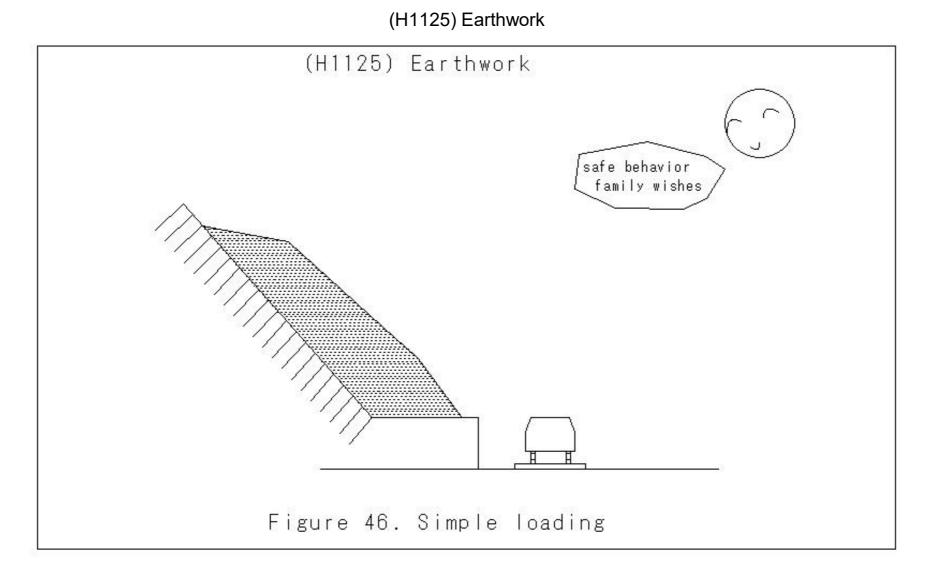


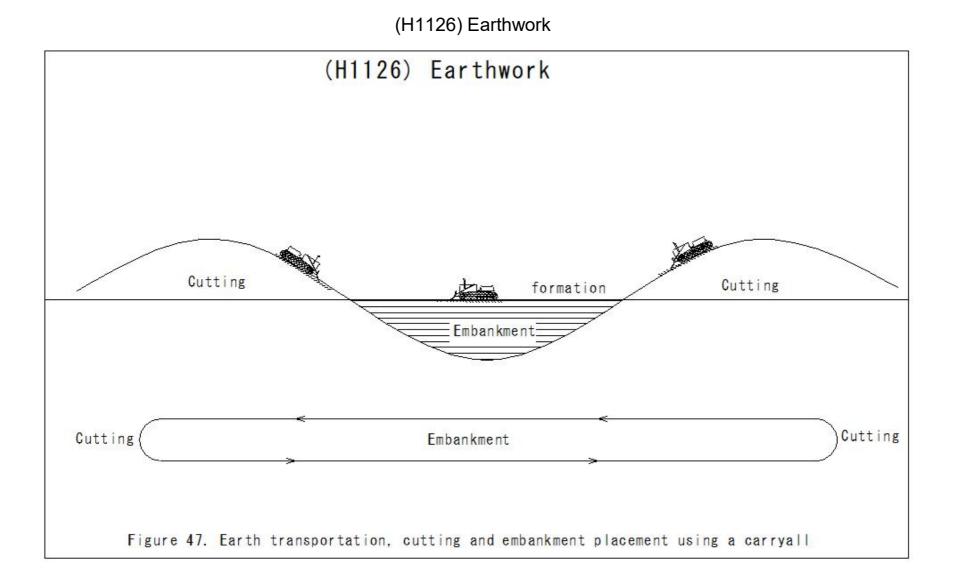


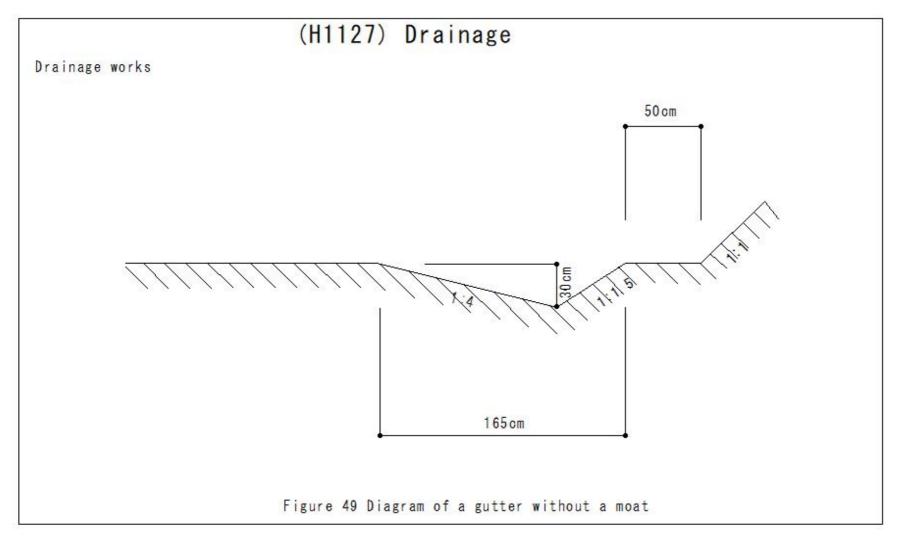
(H1123) Intersection

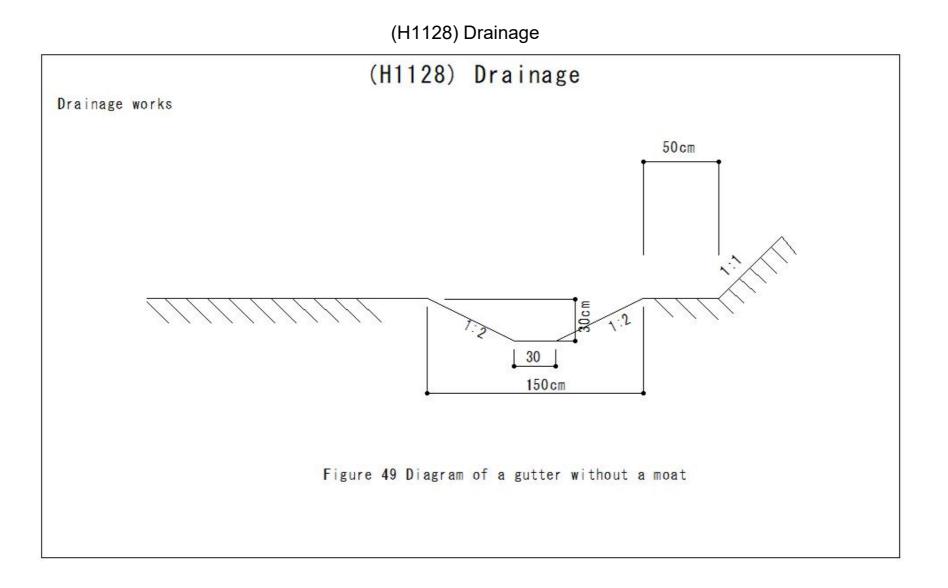




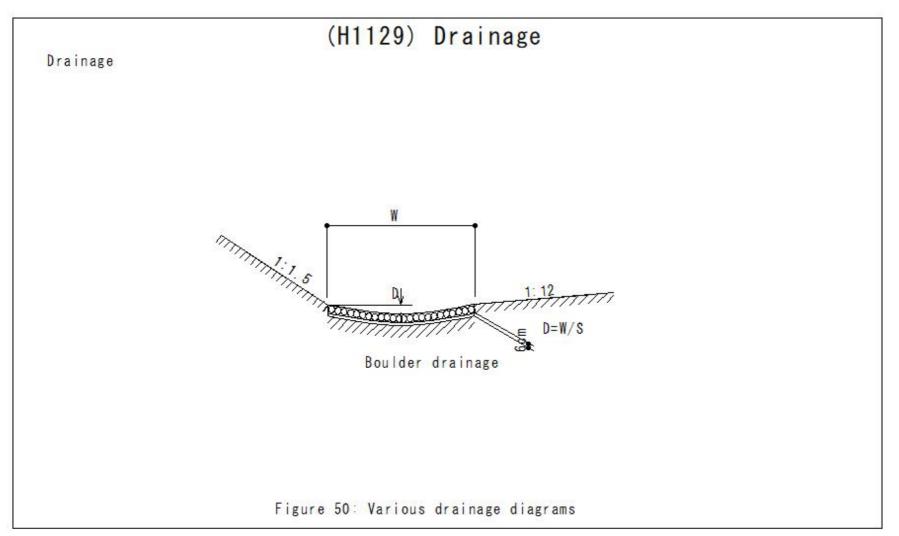


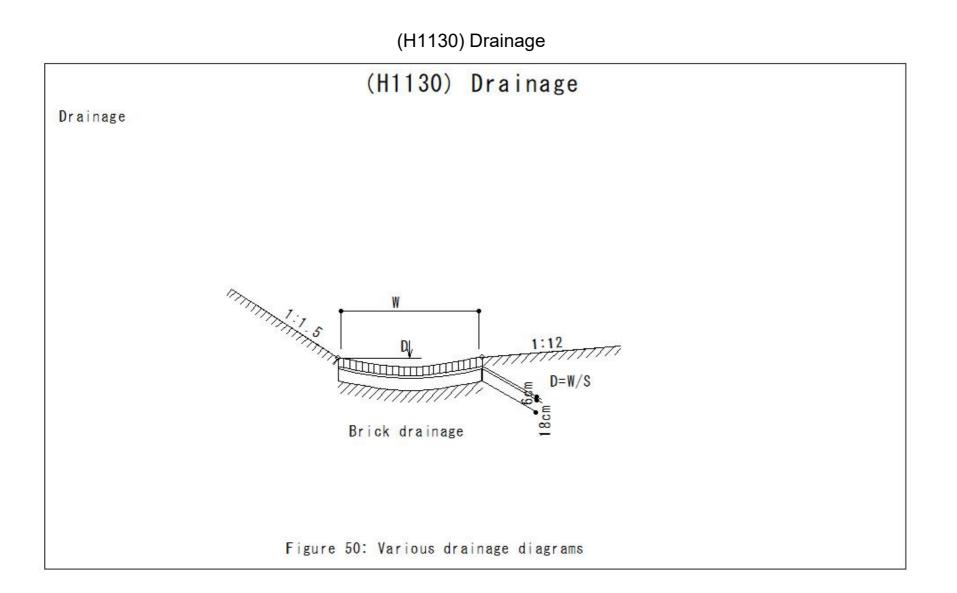


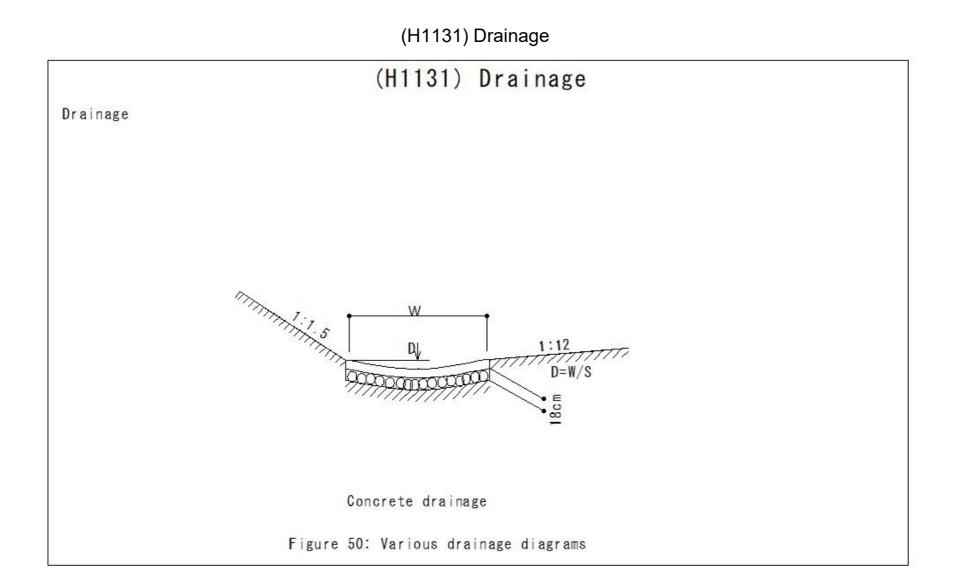


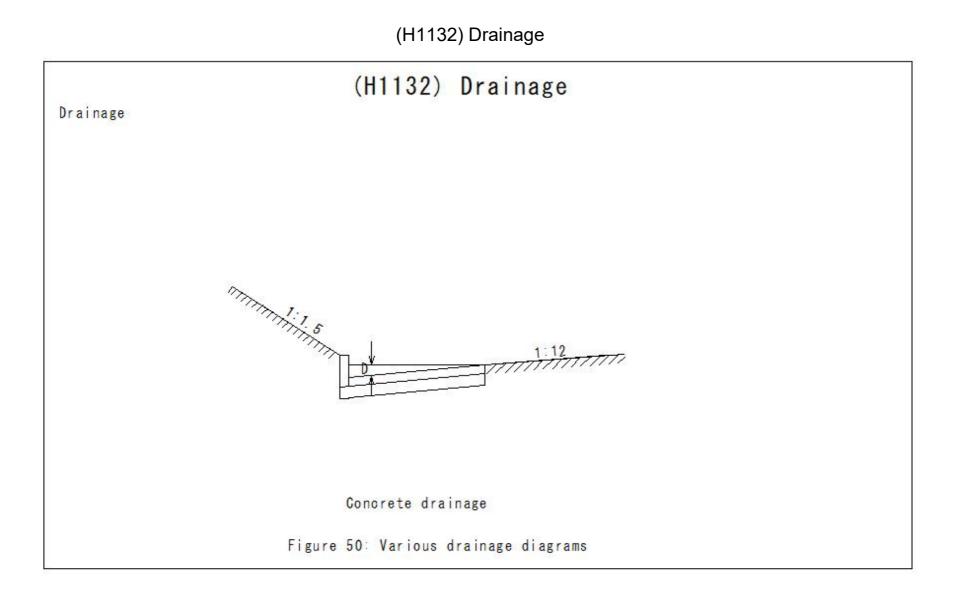




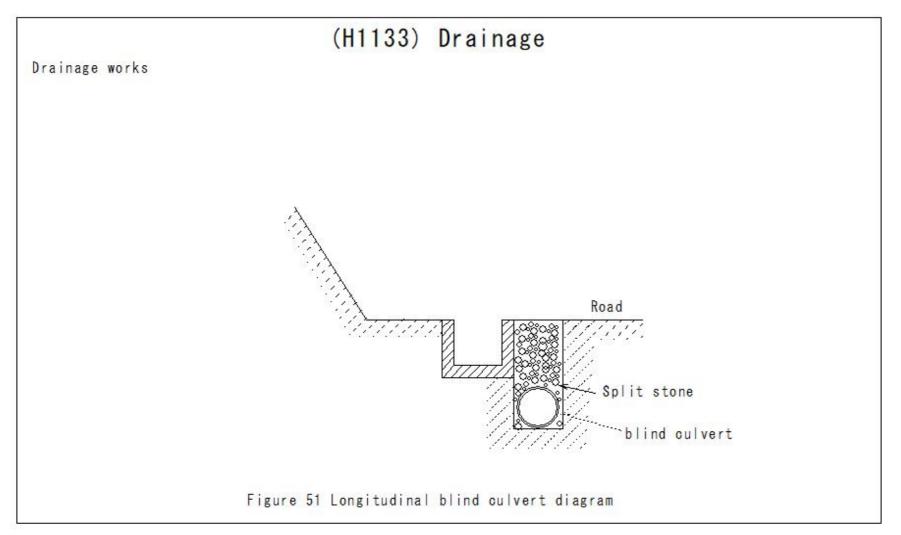




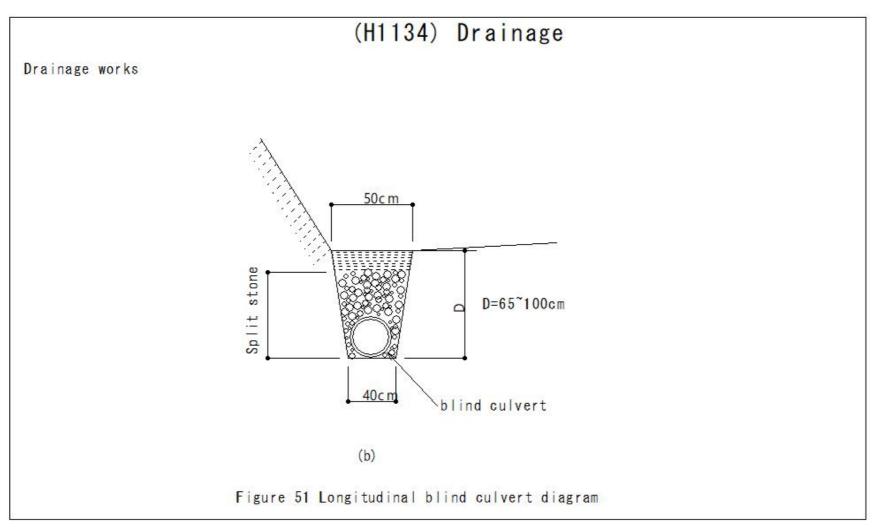


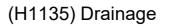


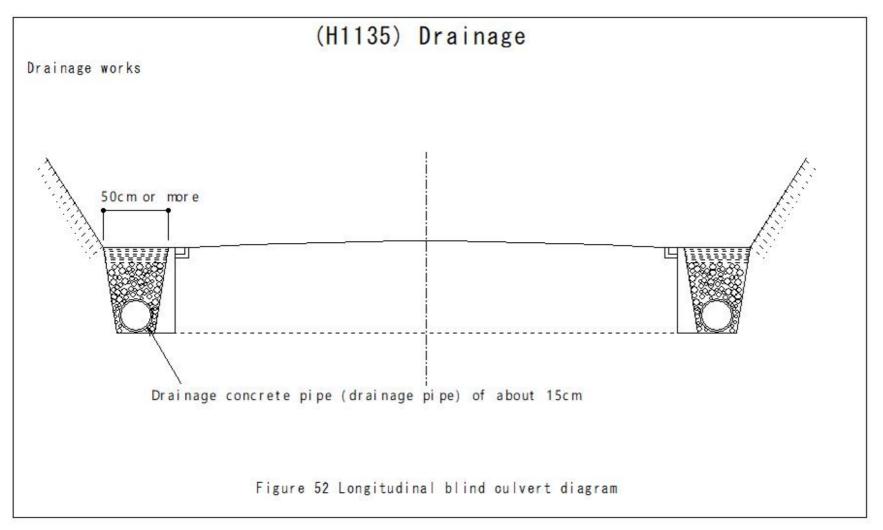


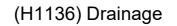


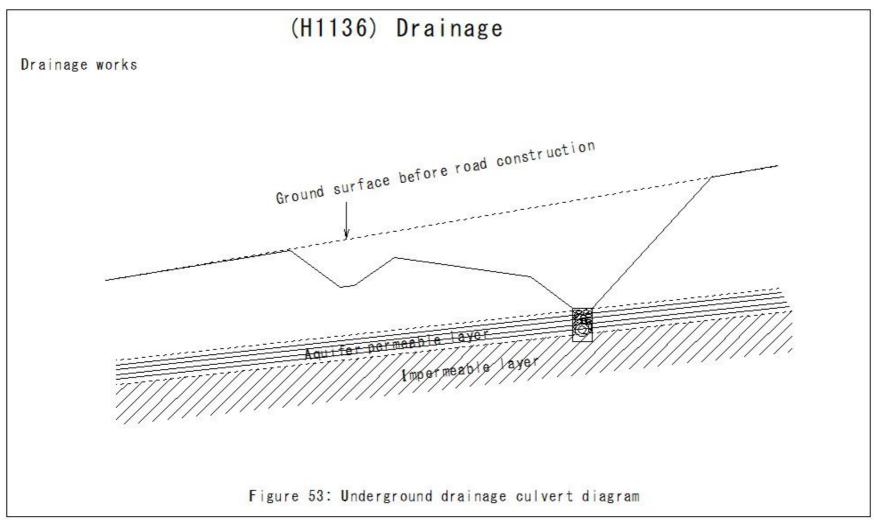




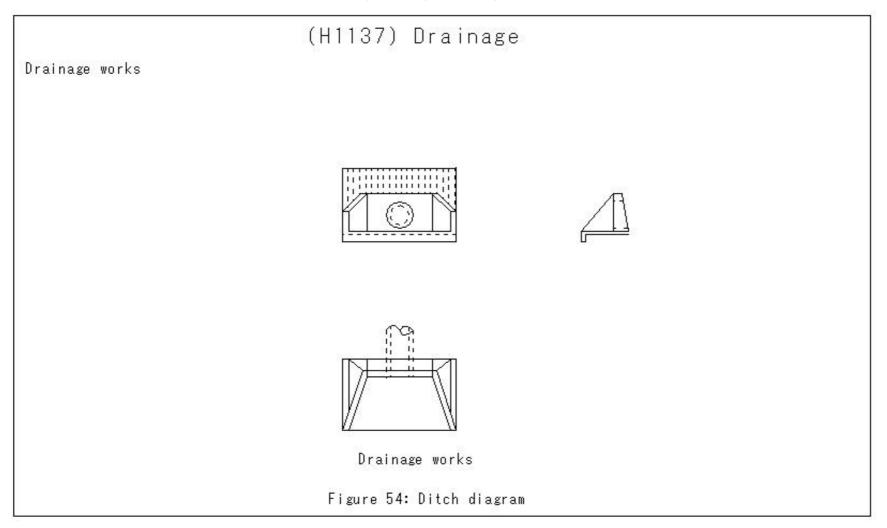


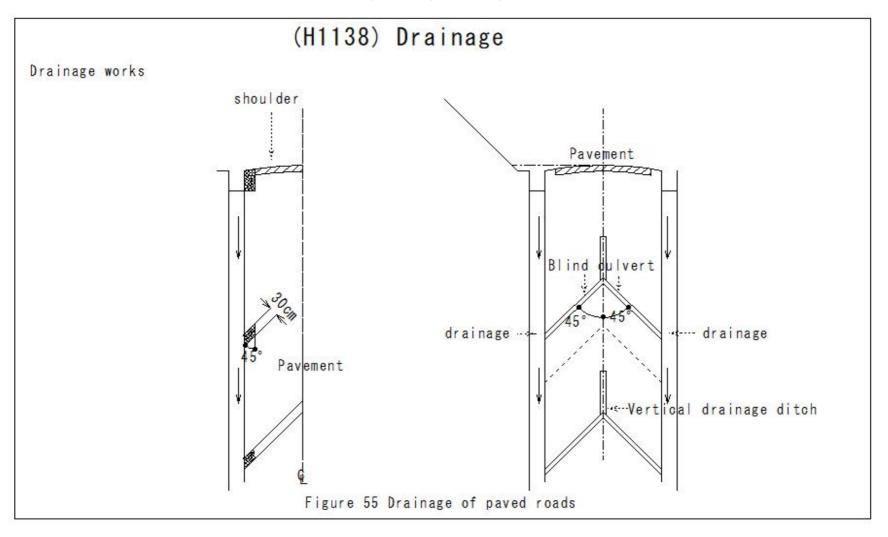


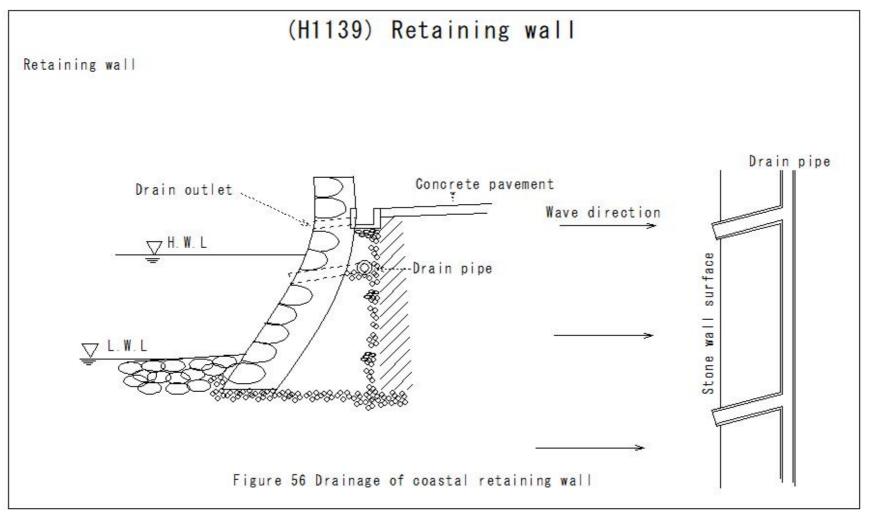


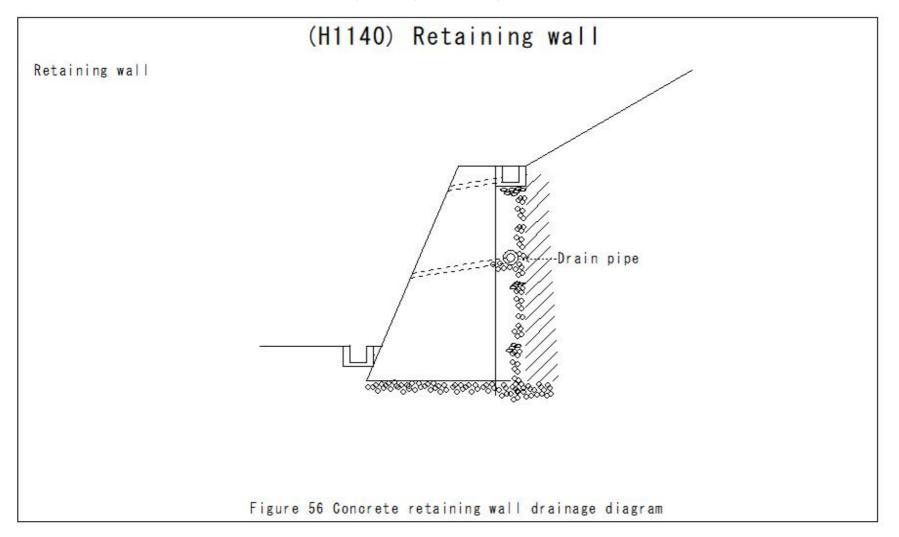


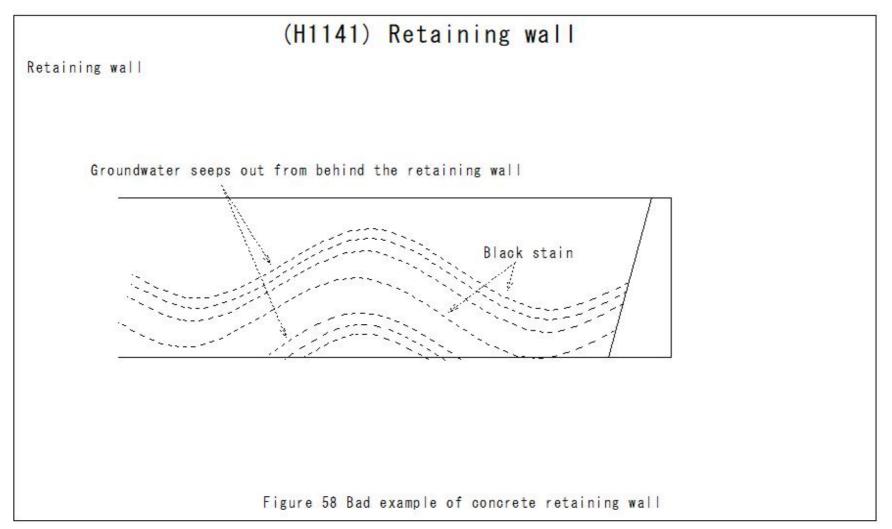
(H1137) Drainage

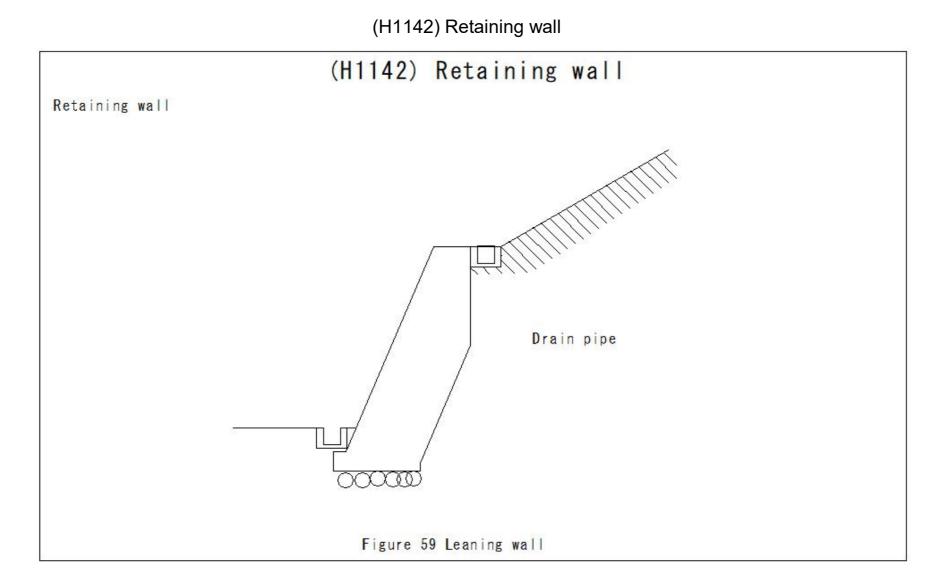


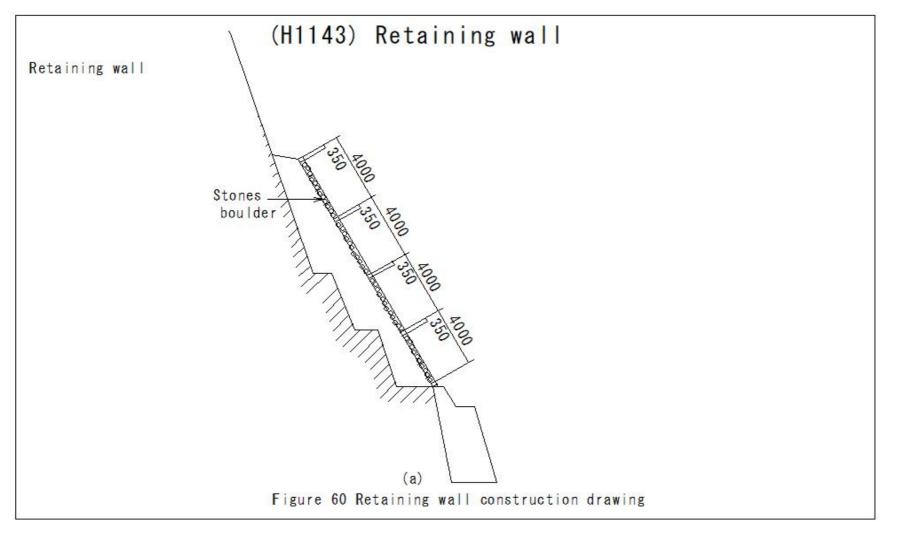


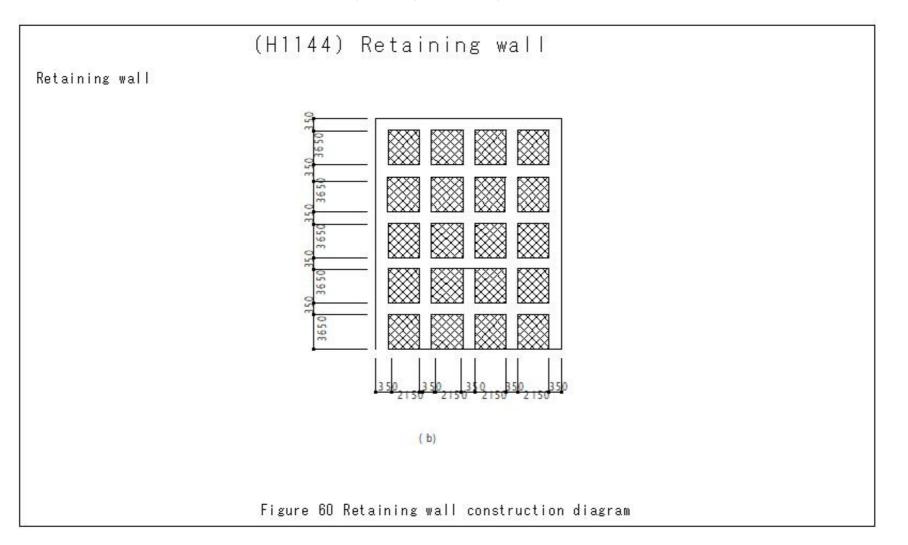


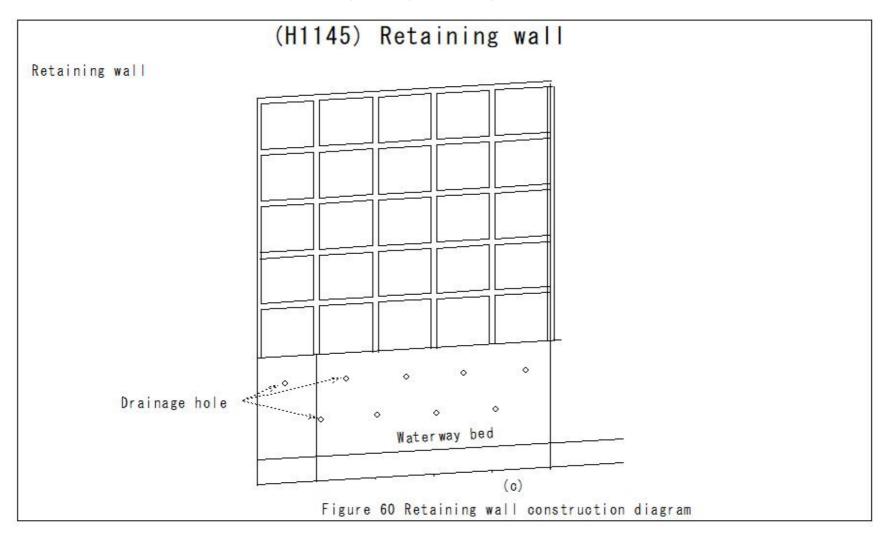




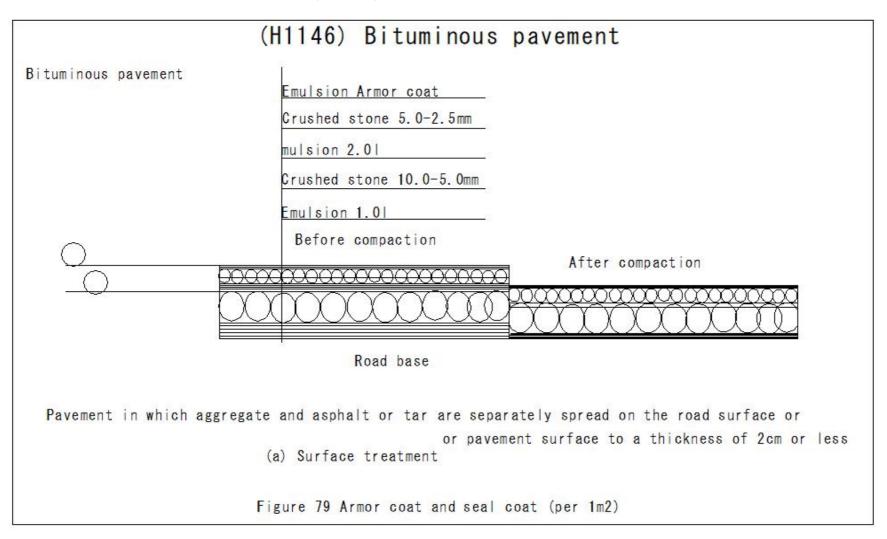




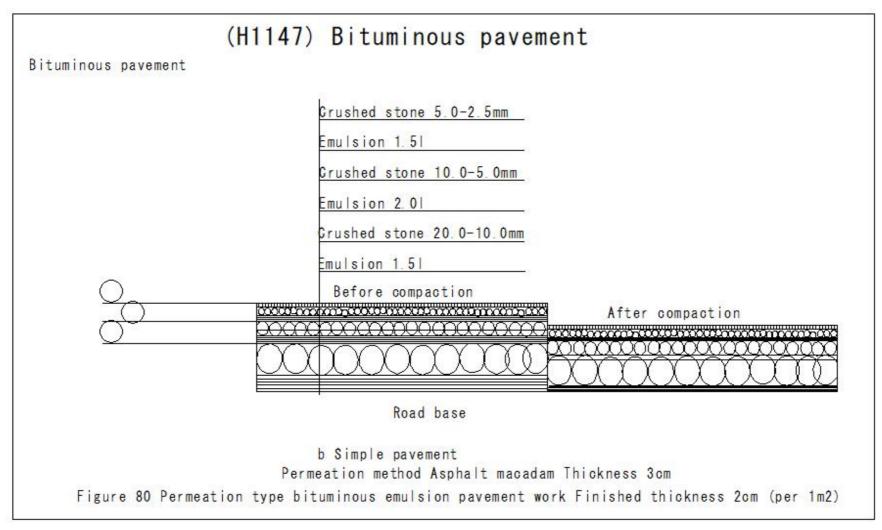




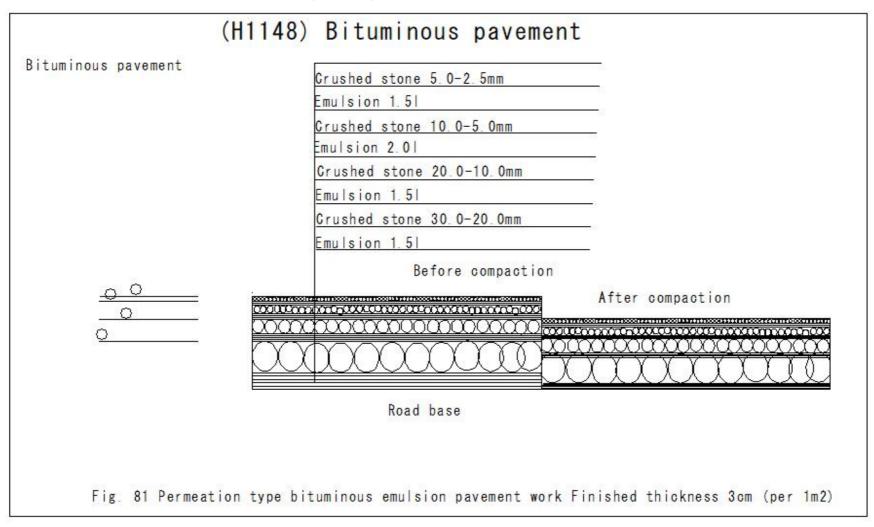
(H1146) Bituminous pavement



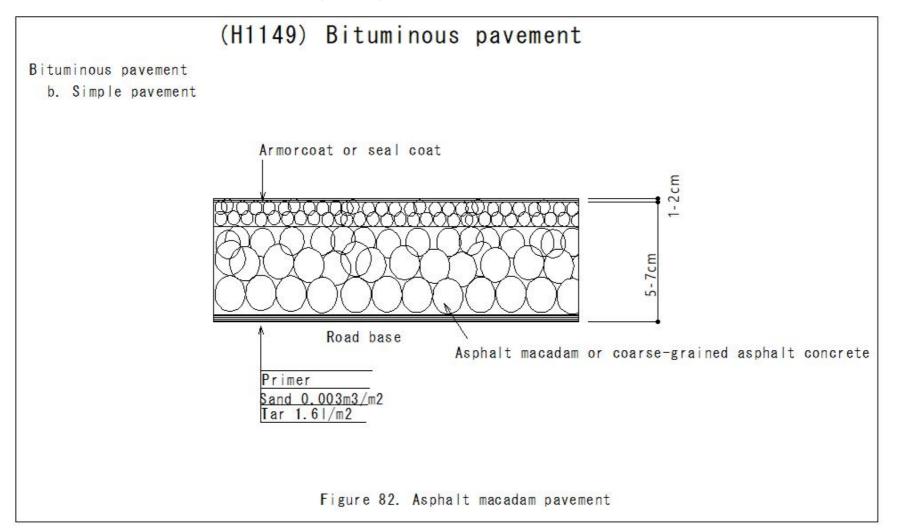
(H1147) Bituminous pavement



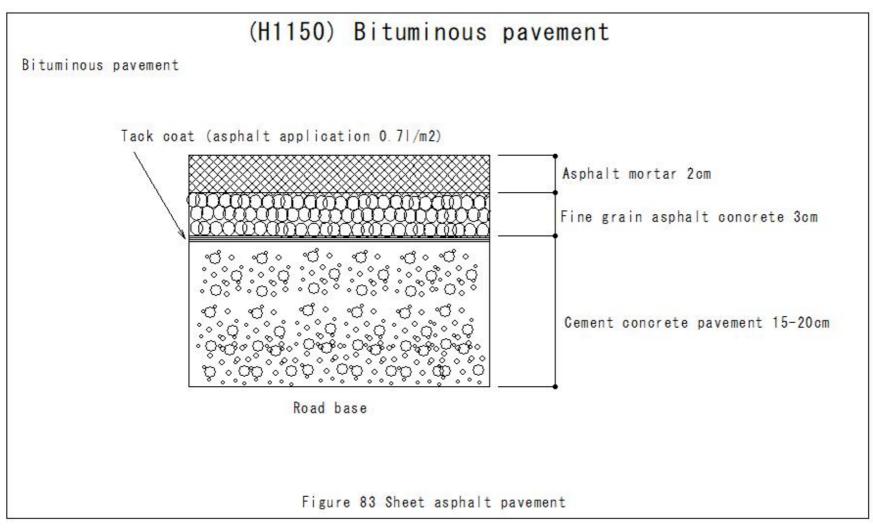
(H1148) Bituminous pavement



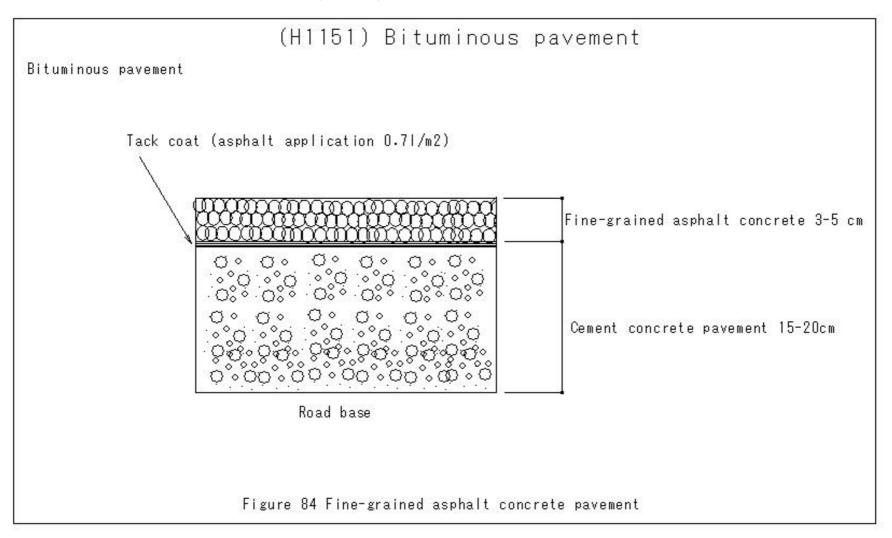
(H1149) Bituminous pavement



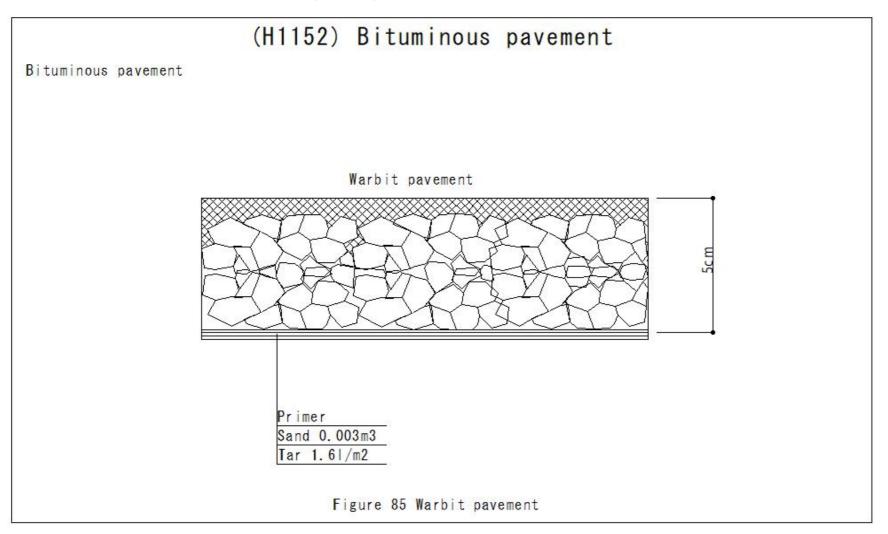
(H1150) Bituminous pavement



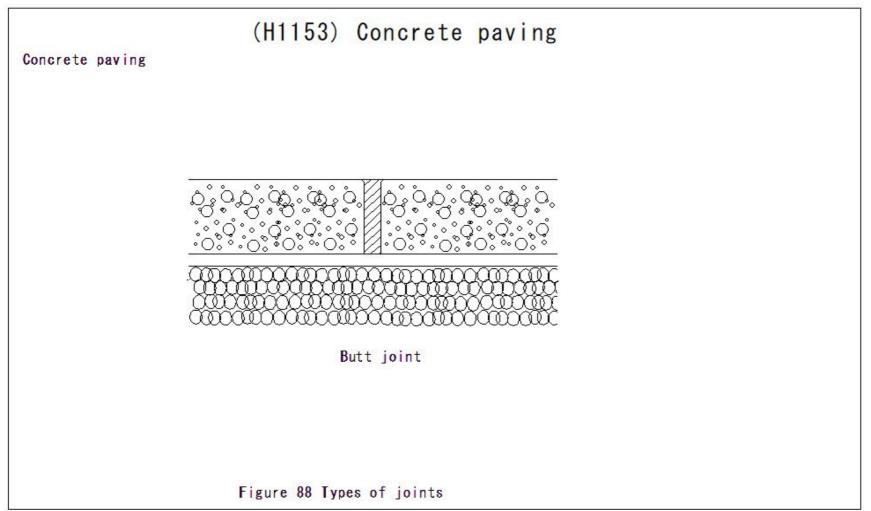
(H1151) Bituminous pavement



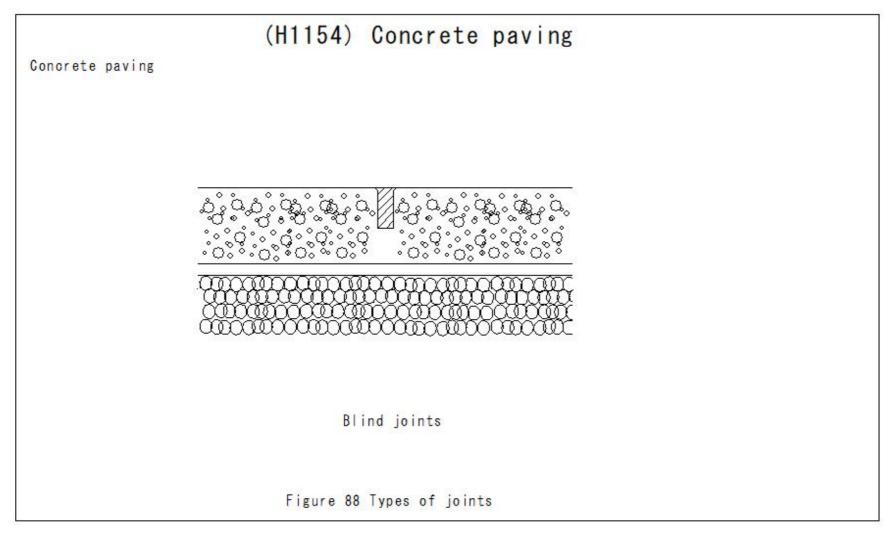
(H1152) Bituminous pavement



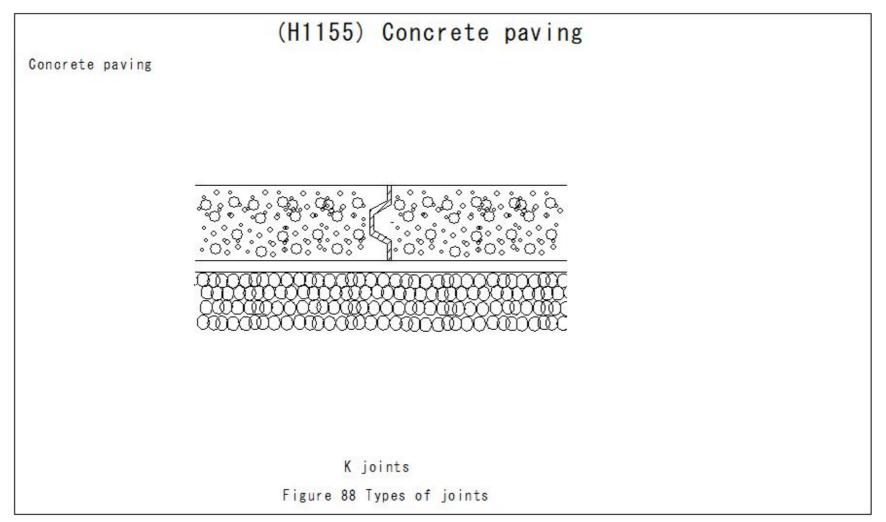
(H1153) Concrete paving

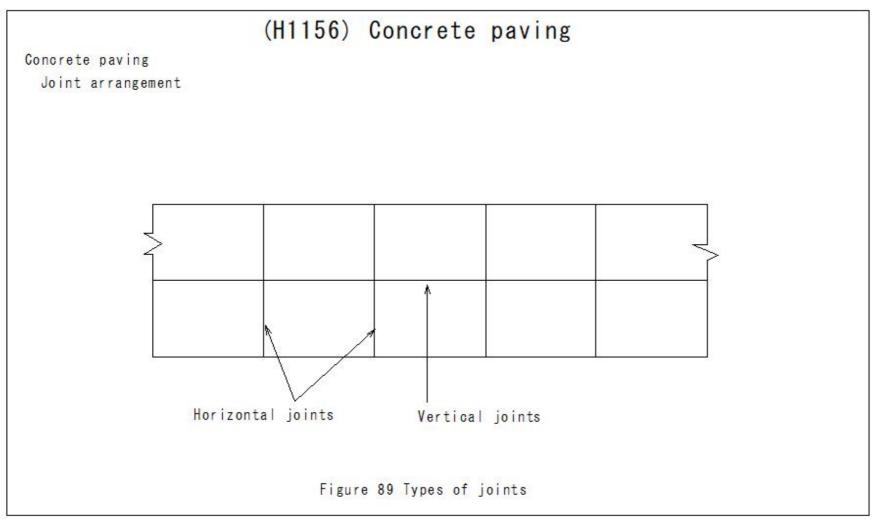


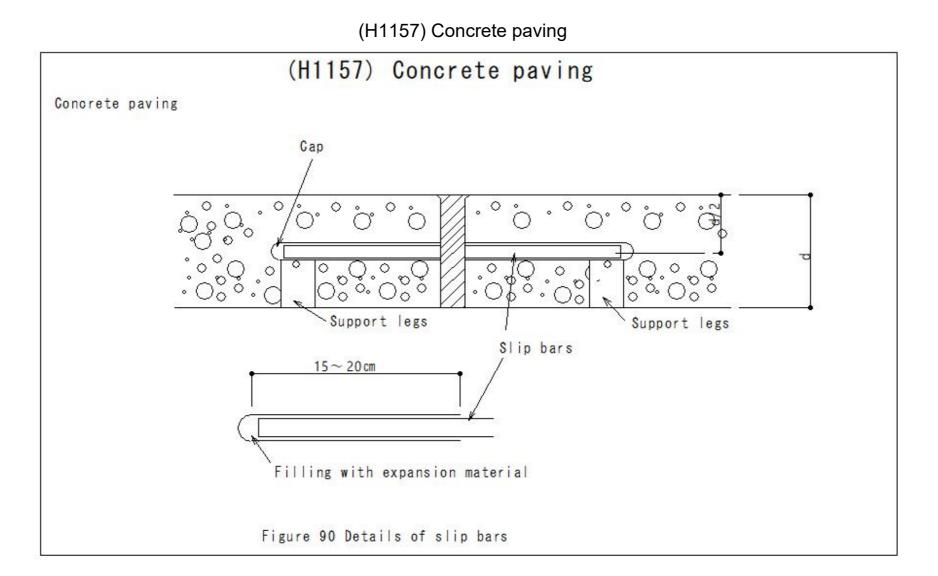
(H1154) Concrete paving

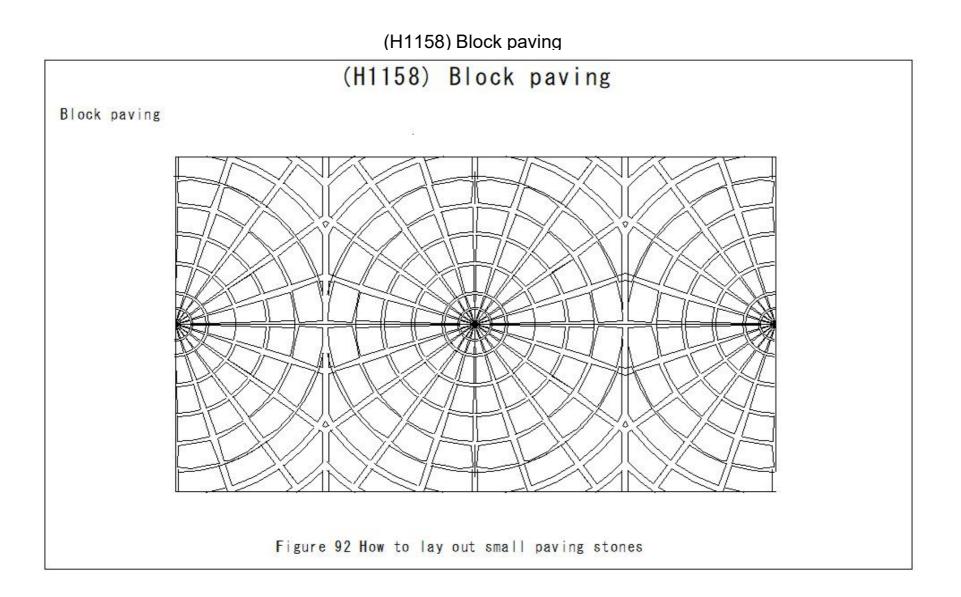


(H1155) Concrete paving

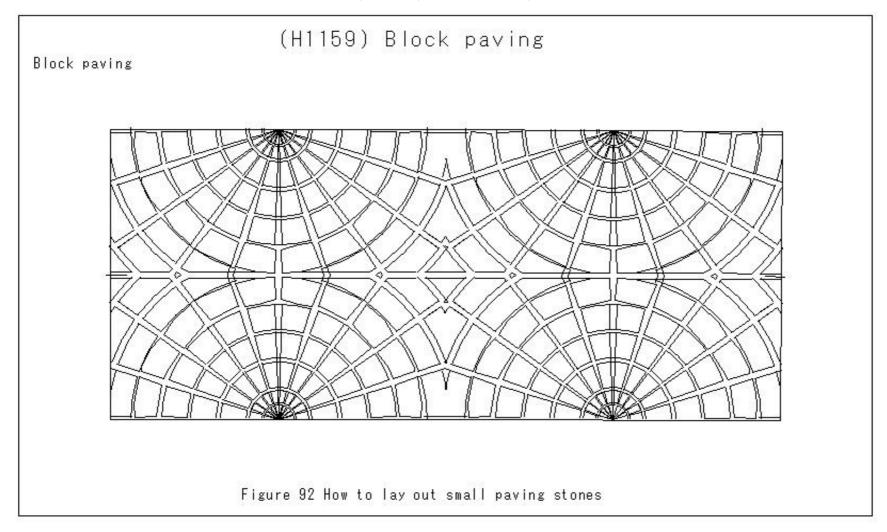




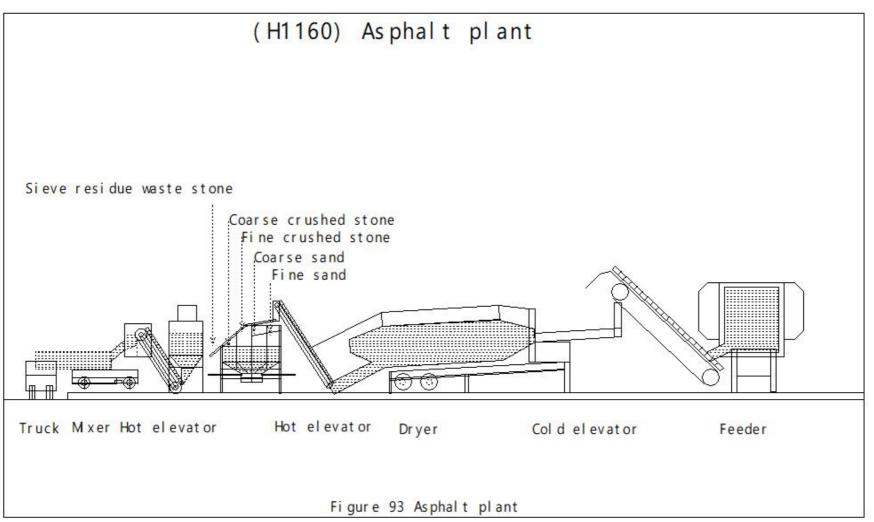




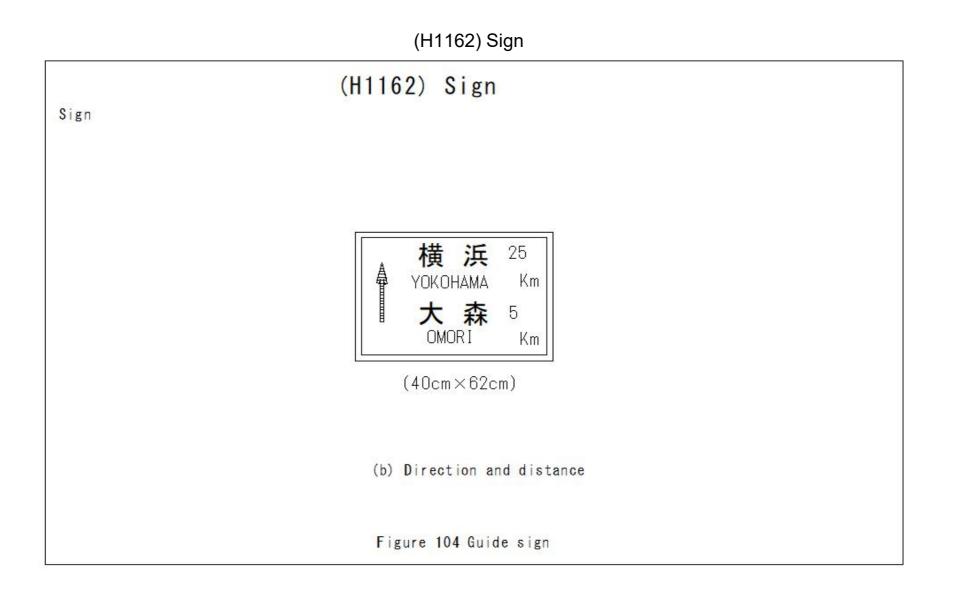
(H1159) Block paving



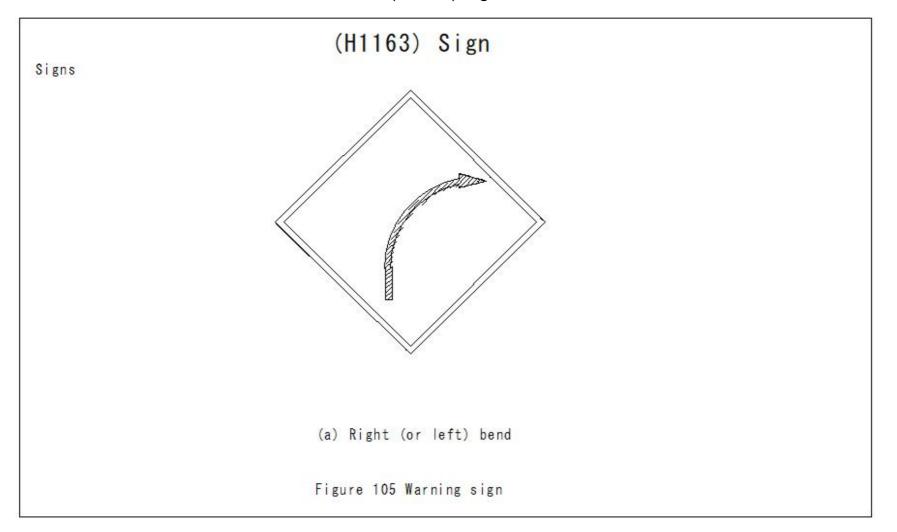


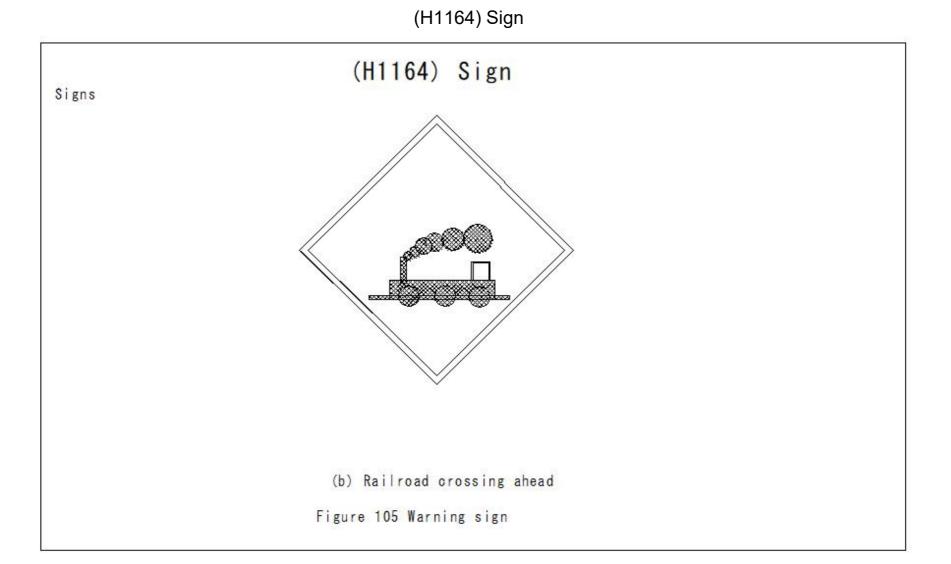


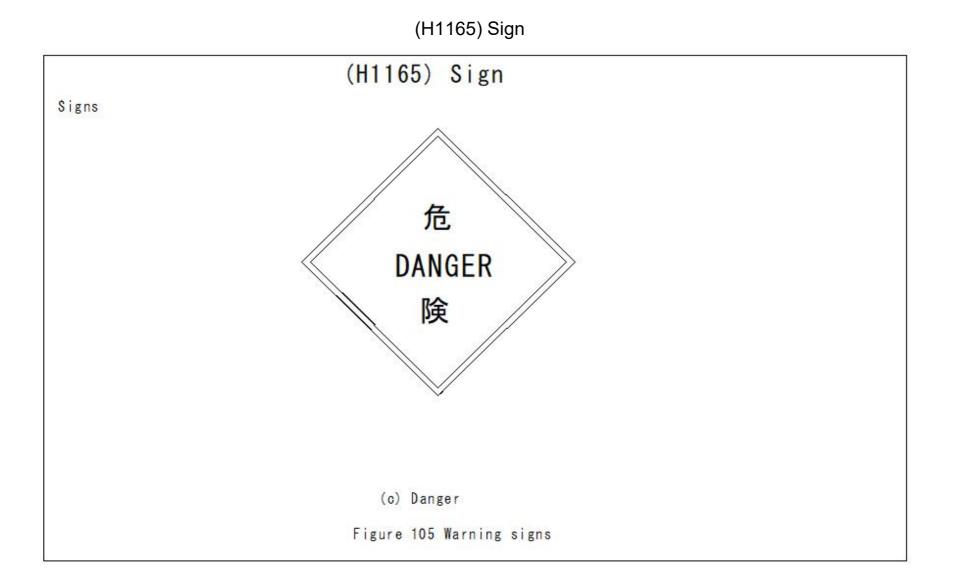
(H1161) Sign (H1161) Sign Sign 熱 海 17 ATAMI km 沼 津 NUMAZU 18 km  $40 \, \text{cm} \times 80 \, \text{cm}$ 20cm 20cm (a) Direction and distance Figure 104 Guide sign

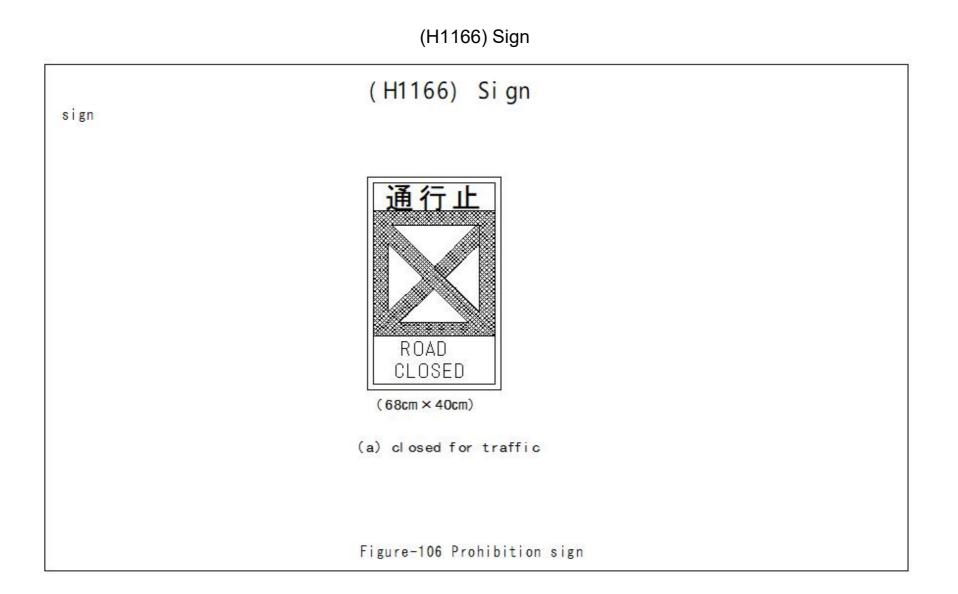


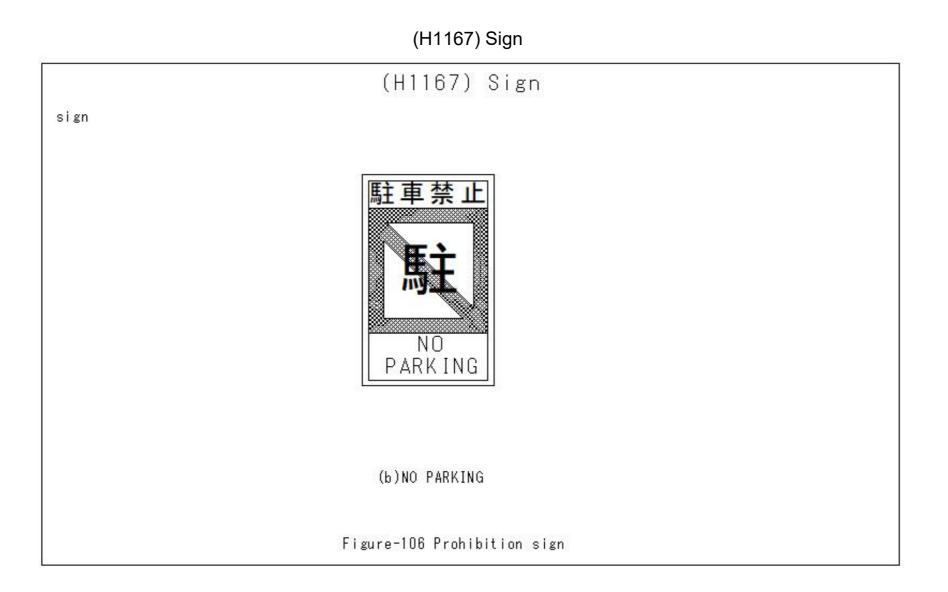
(H1163) Sign

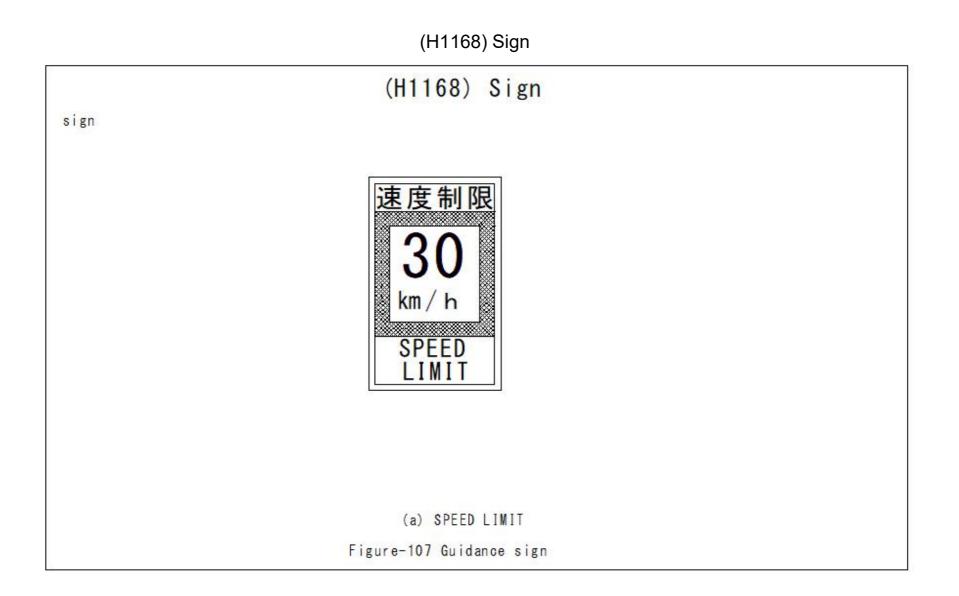


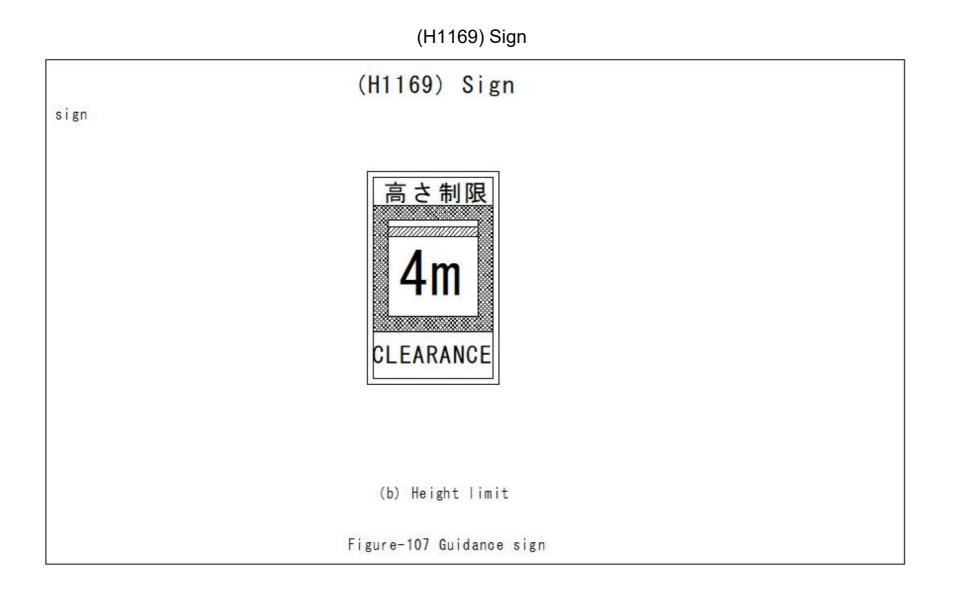


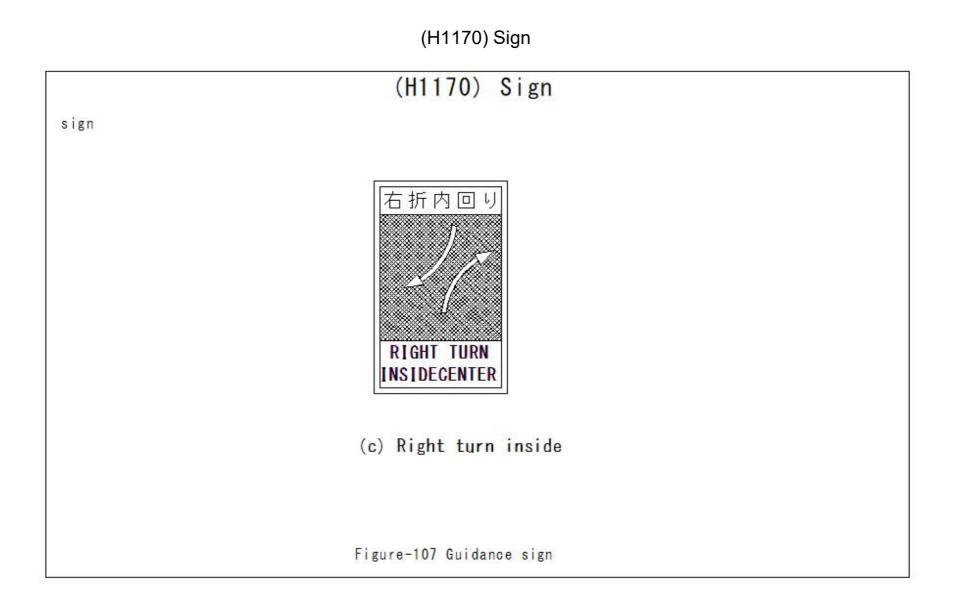


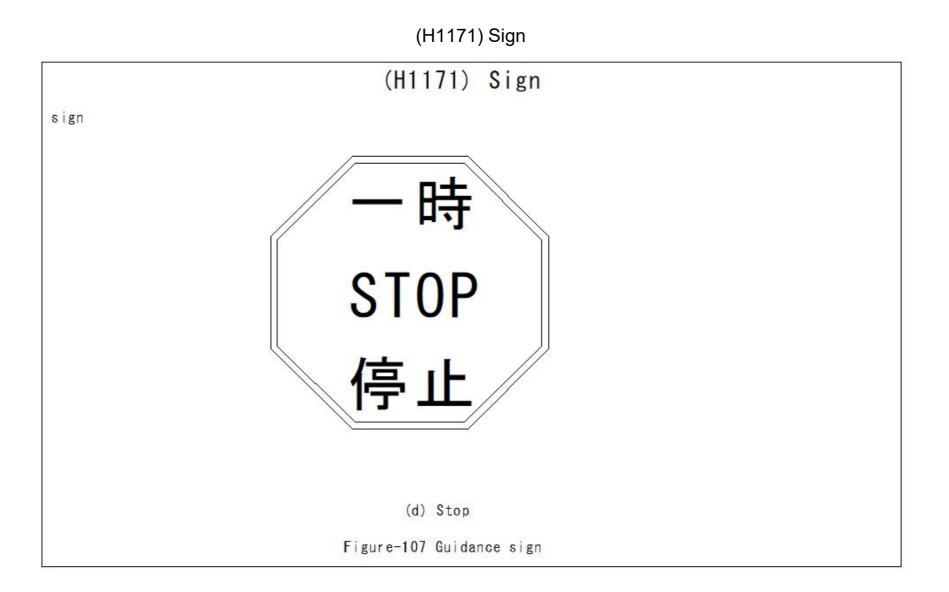




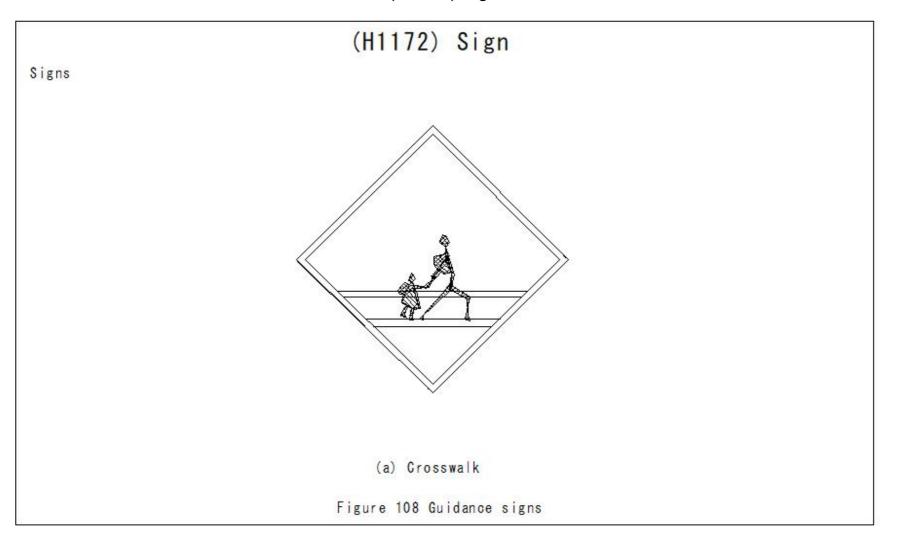


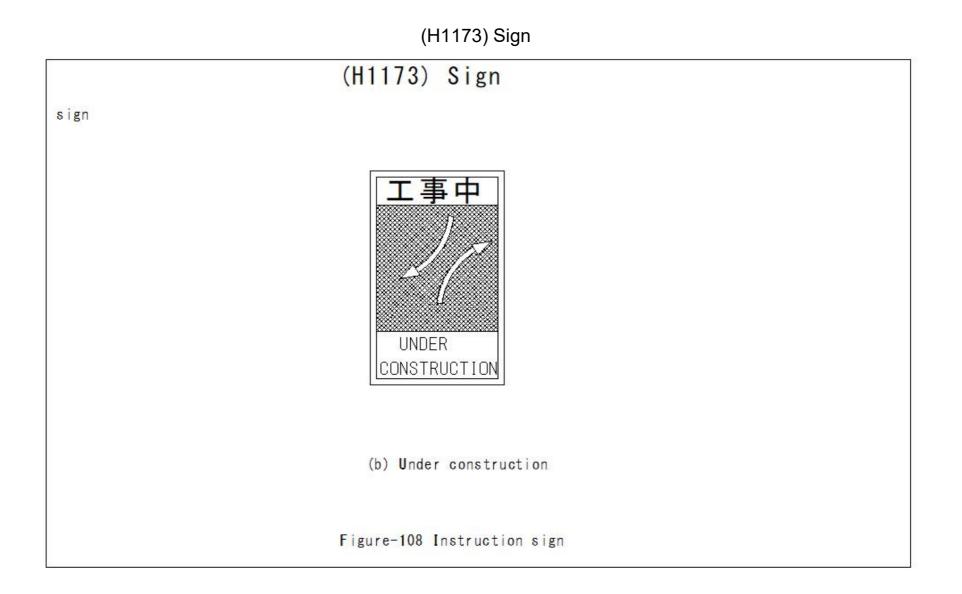


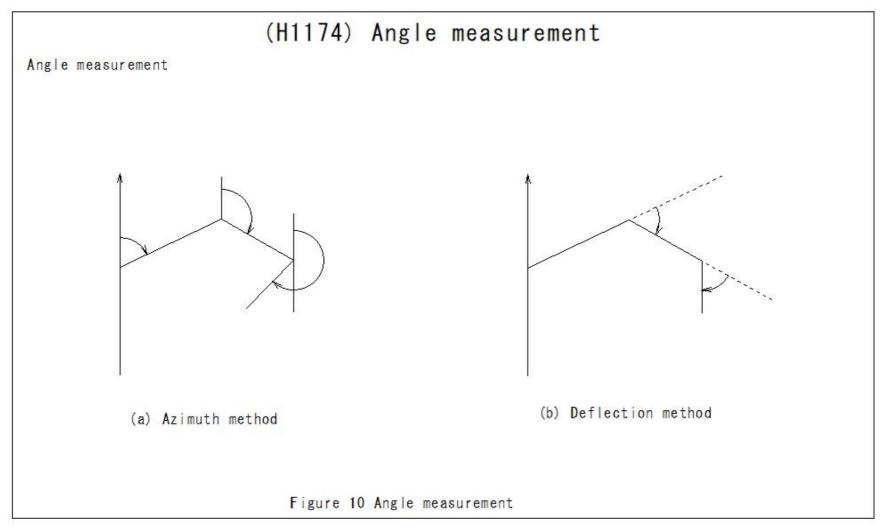




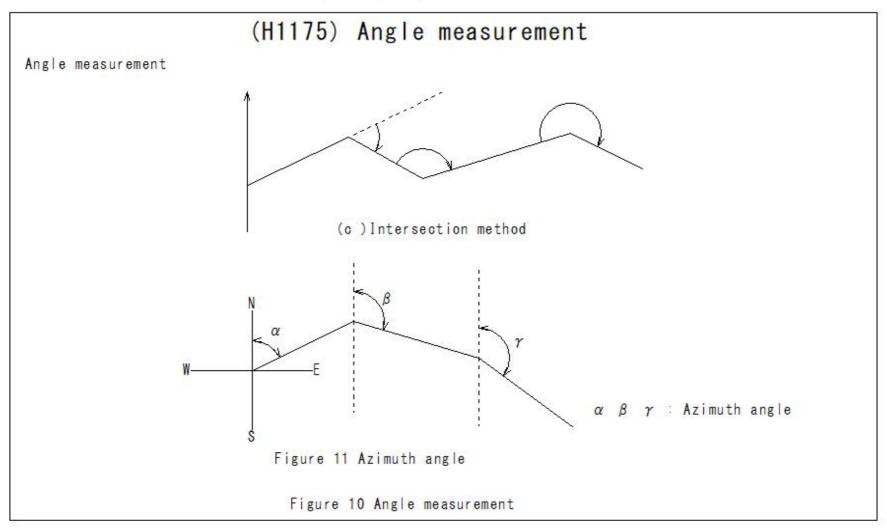
(H1172) Sign



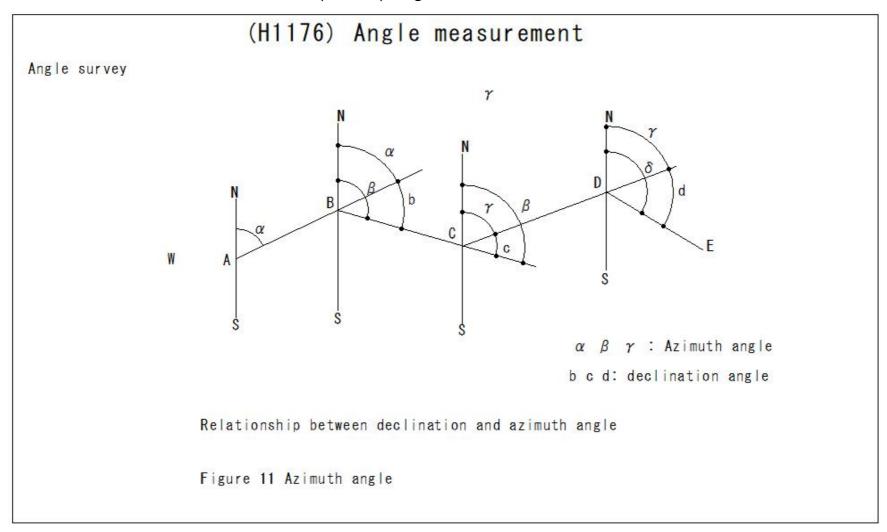




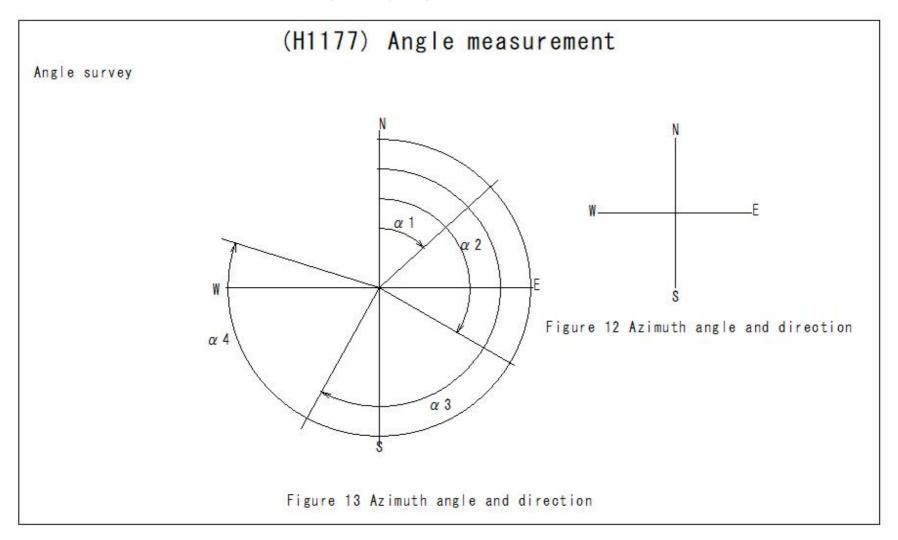
(H1175) Angle measurement



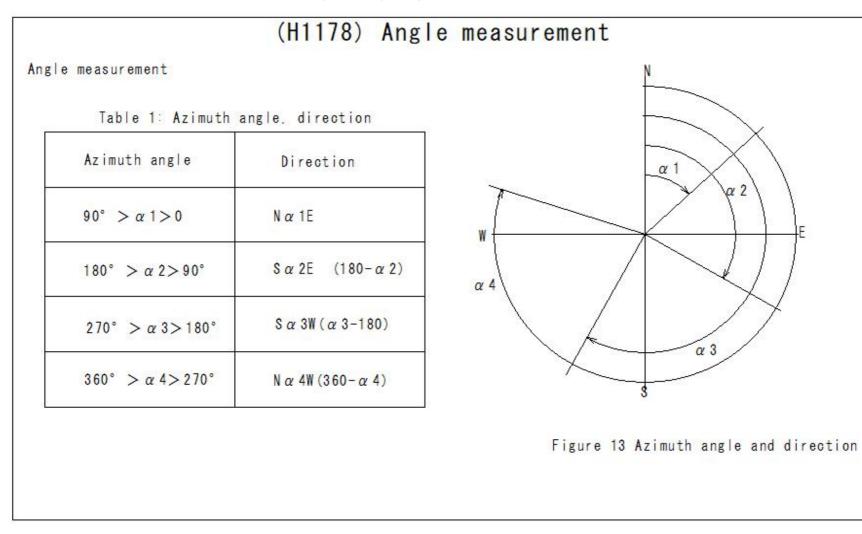
(H1176) Angle measurement

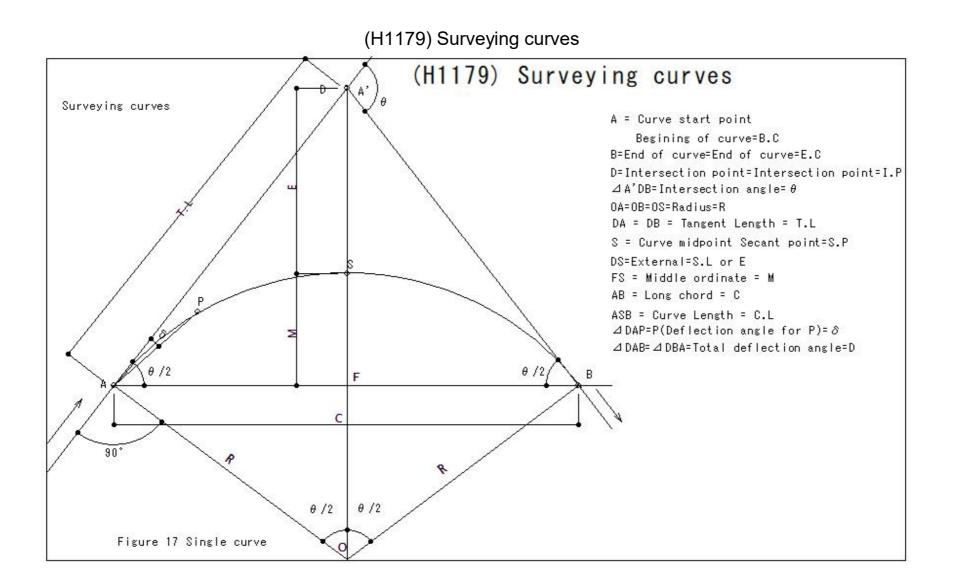


(H1177) Angle measurement

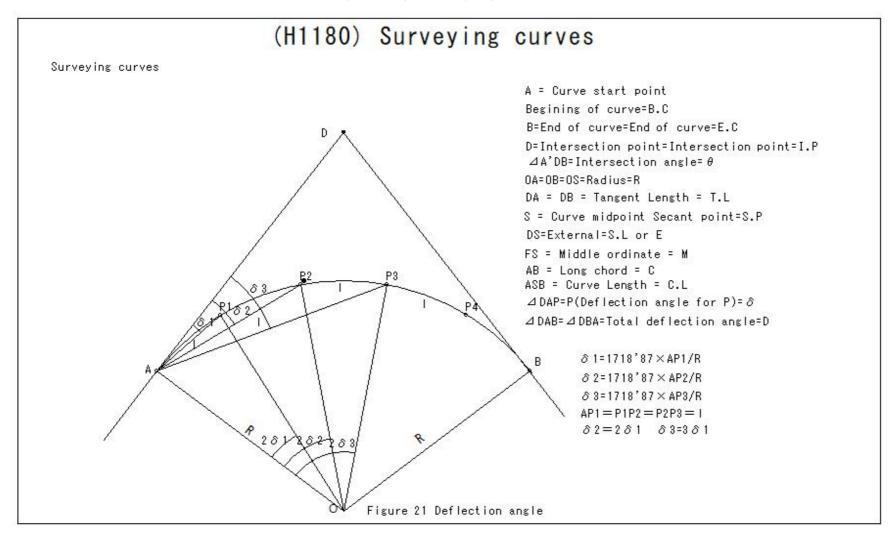


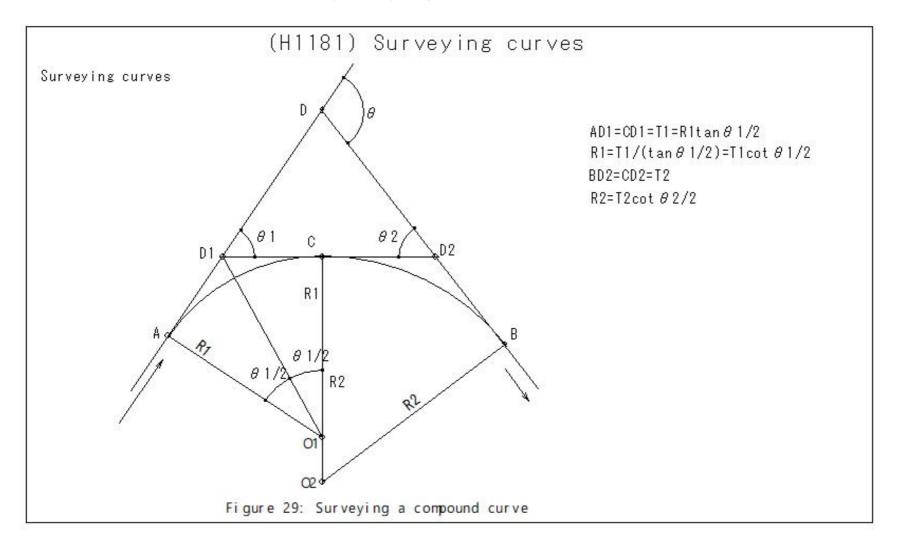
(H1178) Angle measurement



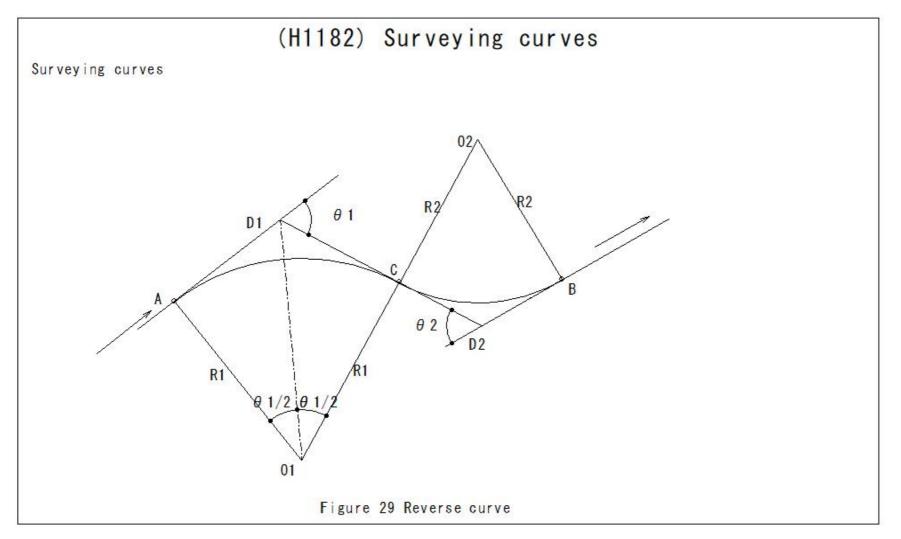


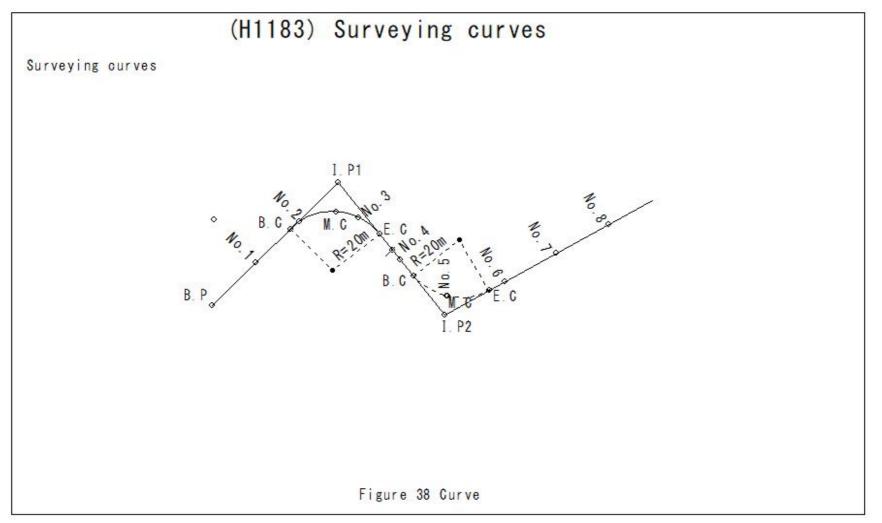
(H1180) Surveying curves

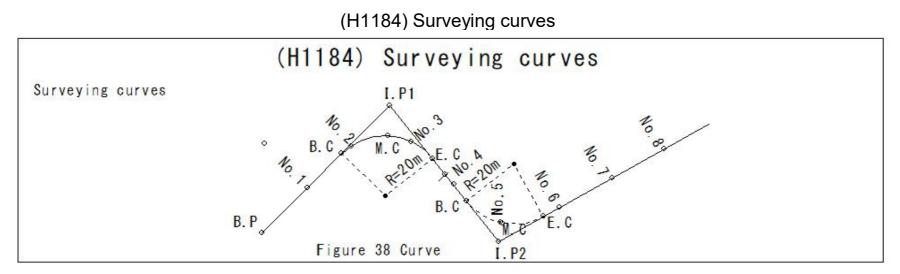




(H1182) Surveying curves



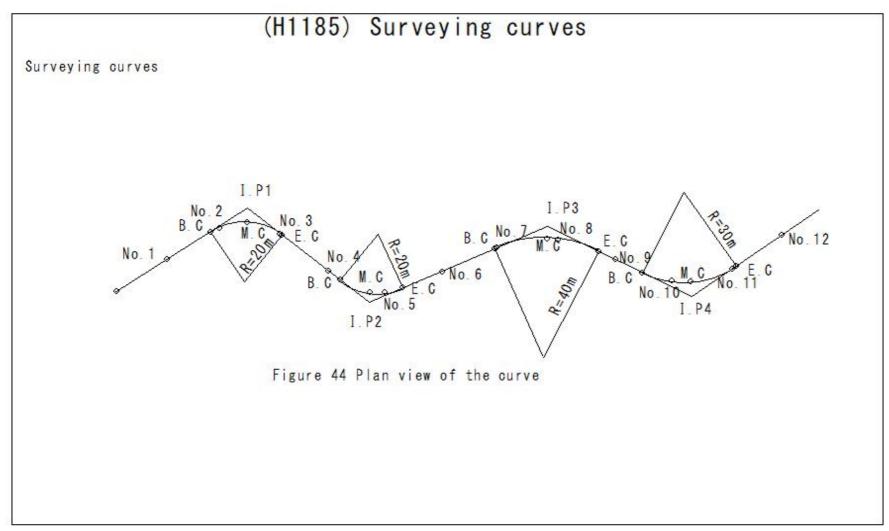




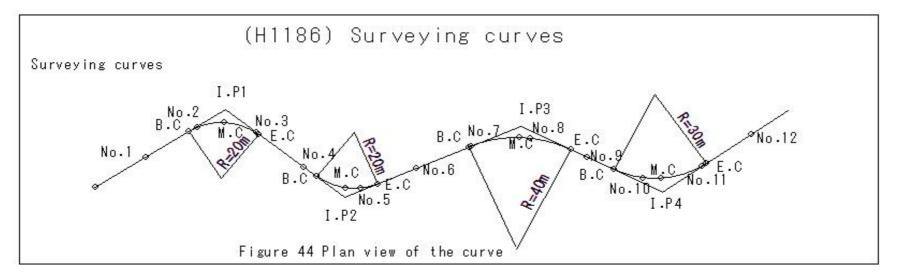
Stations

Station (I.P)	Horizontal Distance (H.D)	Azimuth (B.A)	Intersectio n (I.A)	Radius (R)	Tangent length (T.L)	secant length (S.L)	Curve length (C.L)	types	Distance	additional distances
B.P								B.P		
								No.1		
								B.C		
								No.2		
I.P1								M.C		
								No.3		
								E.C		
								No.4		
								B.C		
								No.5		
IP2								M.C		
								E.C		
								No.6		

(H1185) Surveying curves

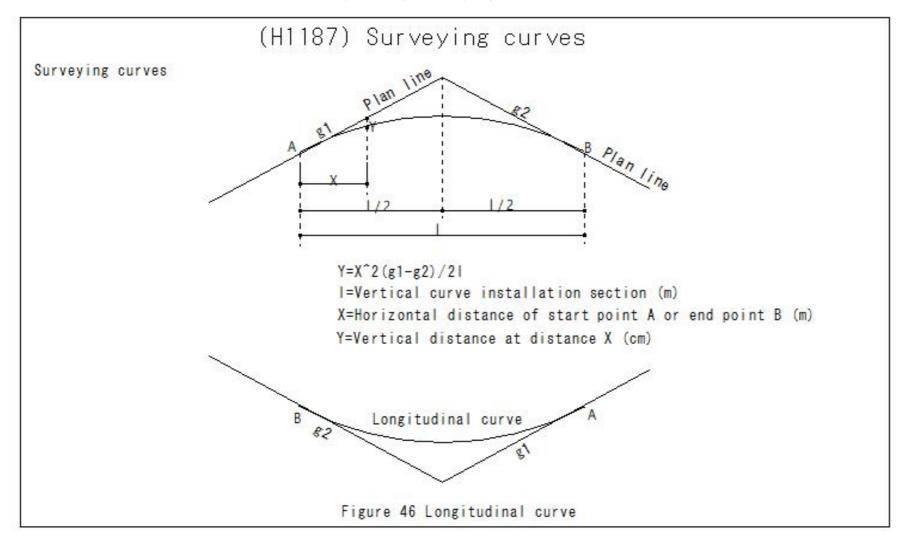


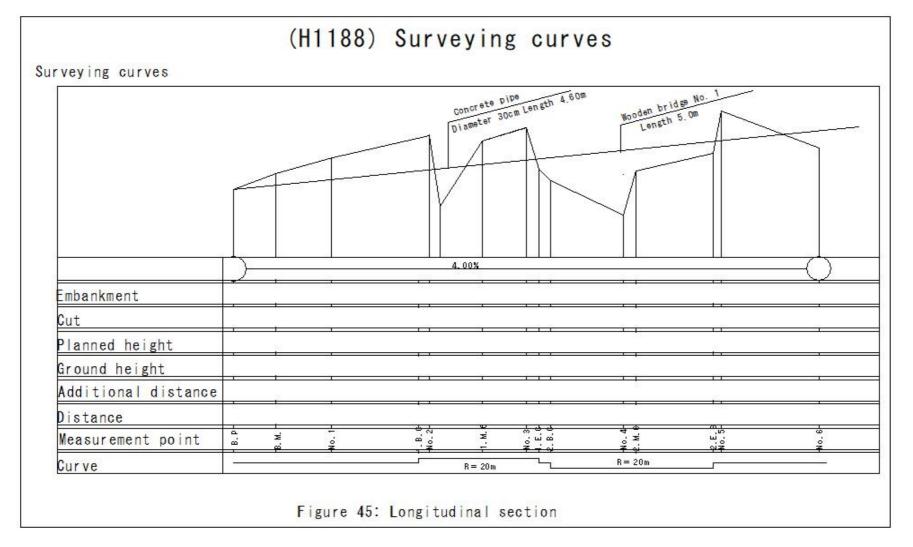
(H1186) Surveying curves

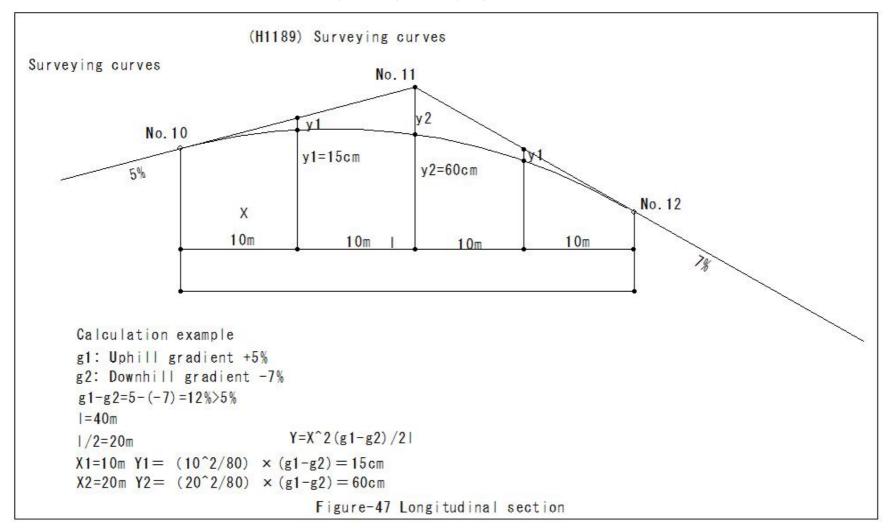


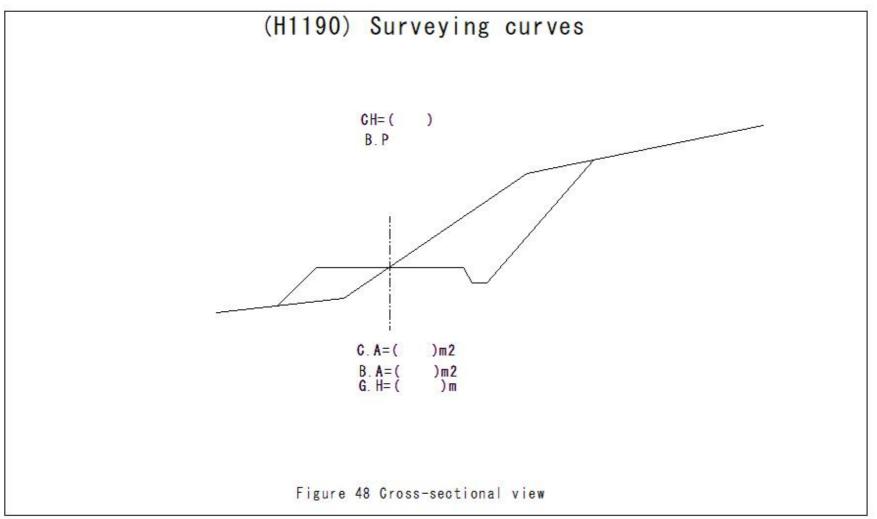
Curve Table
-------------

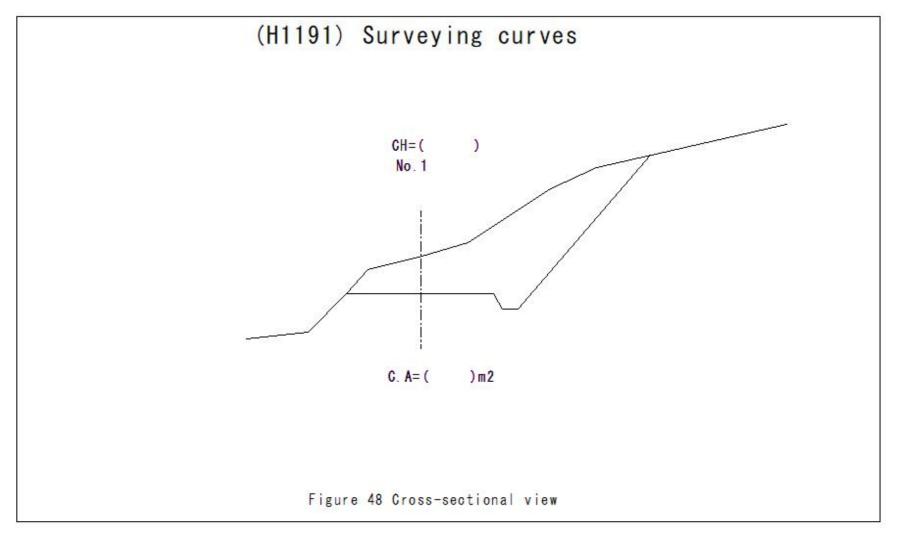
Station (I.P)	Horizonta I Distance (H.D)	Azimuth	Intersecti on (I.A)	Radius (R)	Tangent length (T.L)	secant length (S.L)	curve length (C.L)
I.P1							
I.P2							
I.P3							
I.P4							
I.P5							

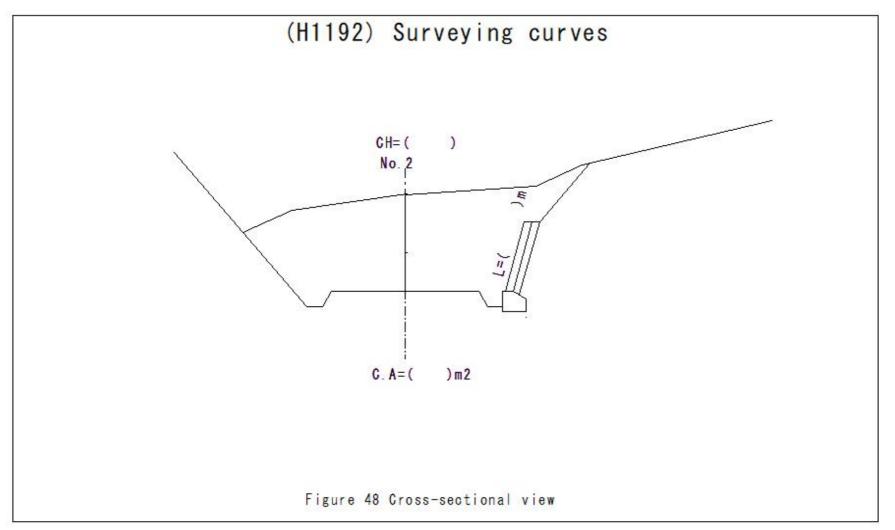


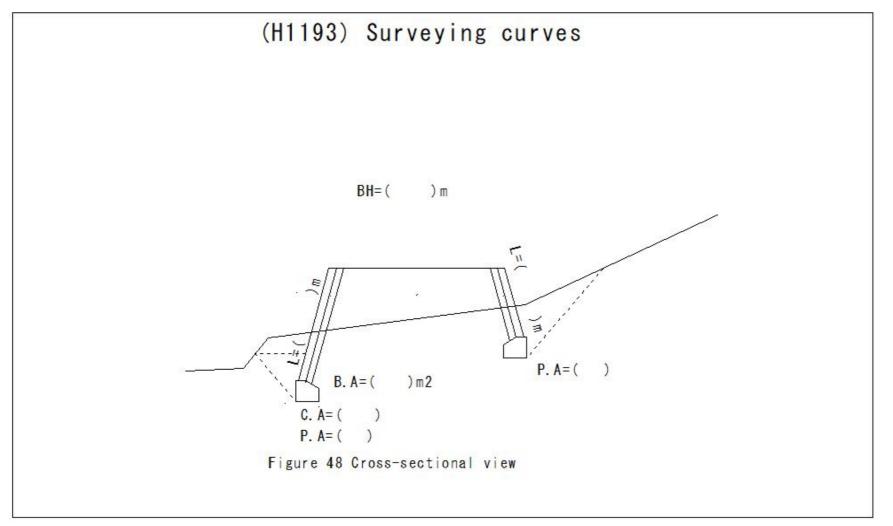


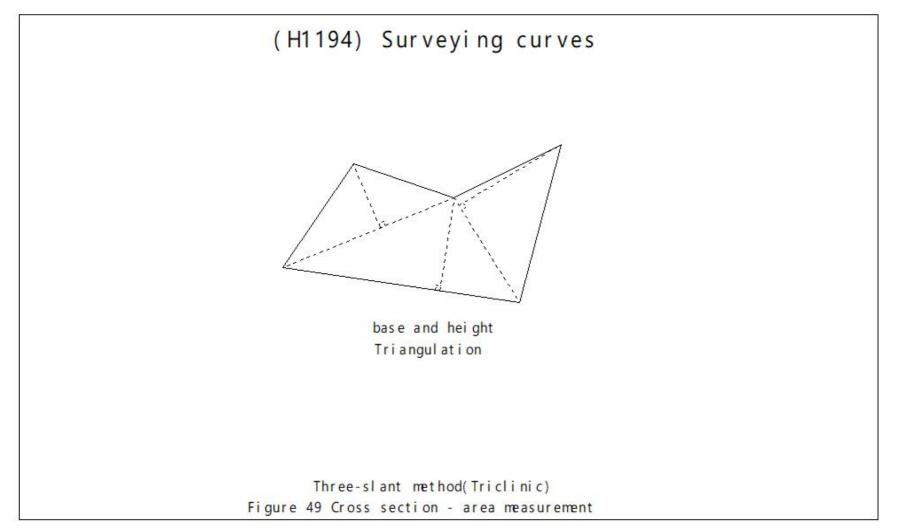


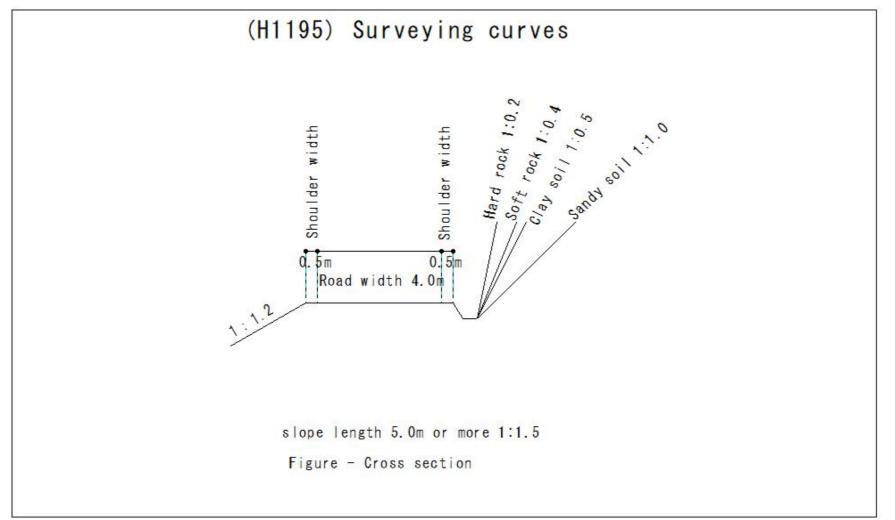




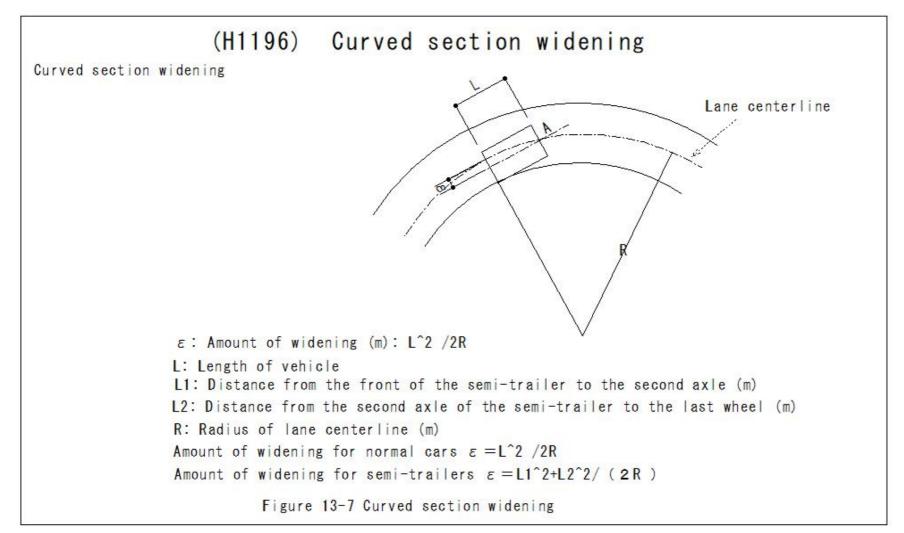








(H1196) Curved section widening



## (H1197) Curved section widening

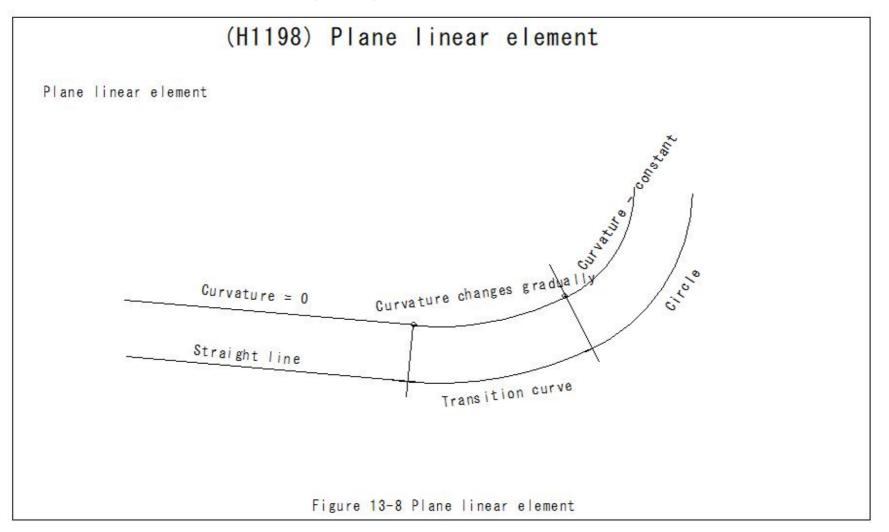
(H1197) Widening of curved sections

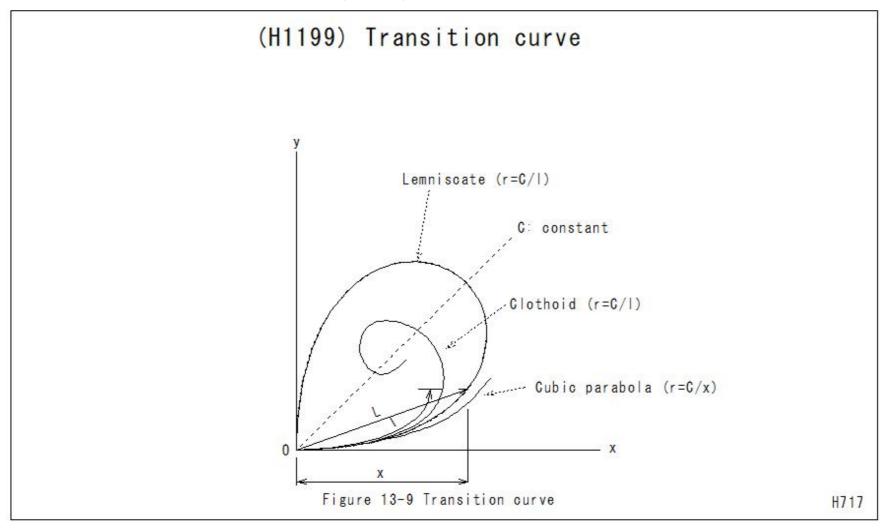
## Farm roads

## Table 13-9 Widening of curved sections

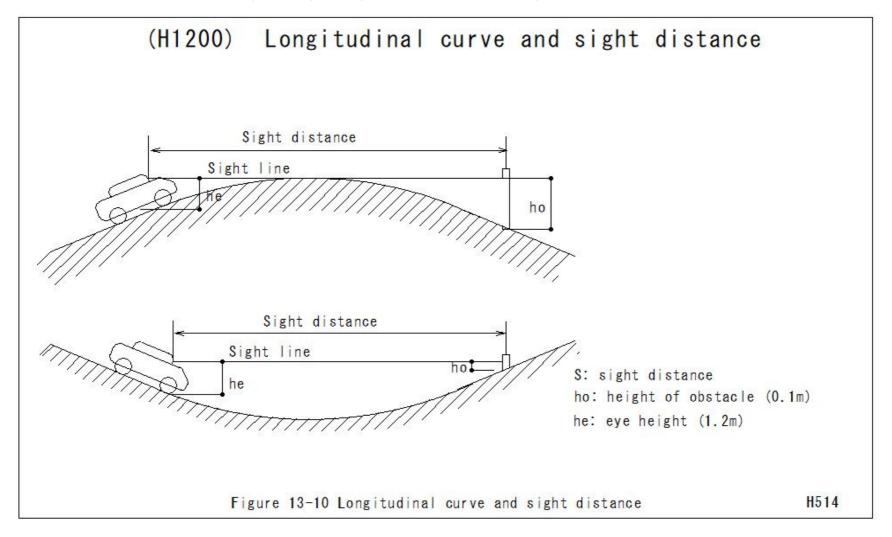
Curve radius (m)	Width per lane (m)
100 or more but less than 150	0.25
55 or more but less than 100	0.5
40 or more but less than 55	0.75
30 or more but less than 40	1
25 or more but less than 30	1.25
20 or more but less than 25	1.5
18 or more but less than 20	1.75
15 or more but less than 18	2

(H1198) Plane linear element

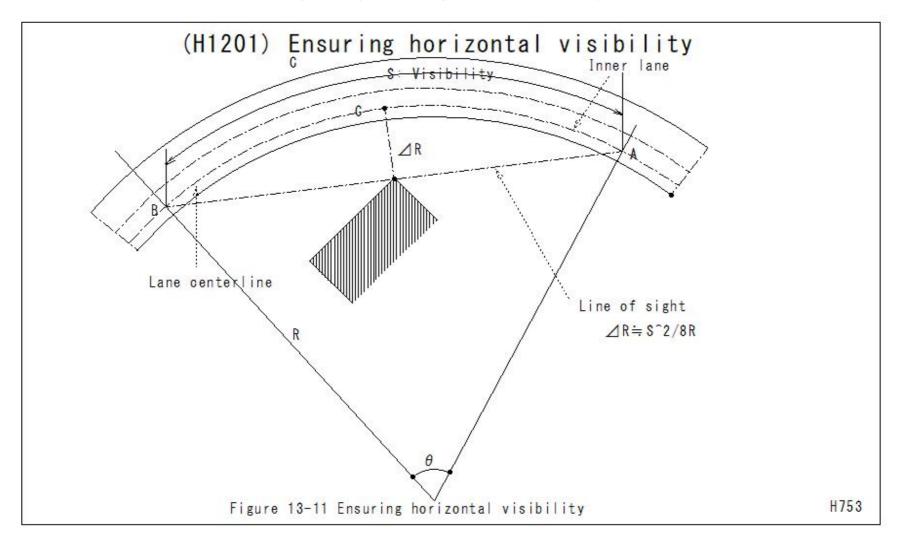


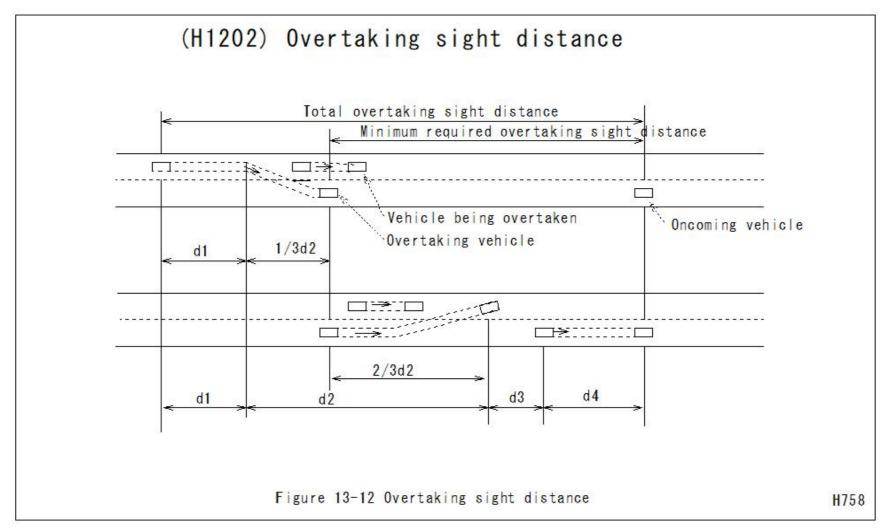


(H1200) Longitudinal curve and sight distance



(H1201) Ensuring horizontal visibility

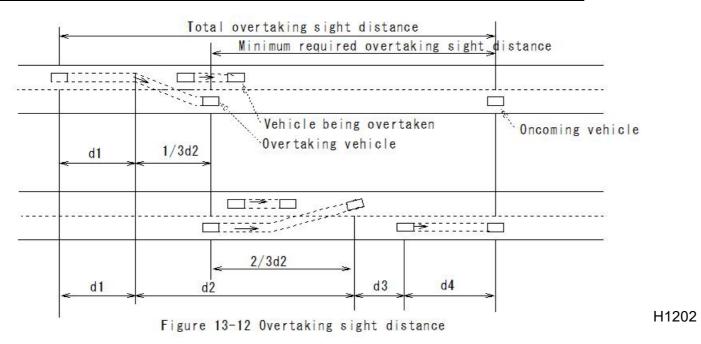




(H1203) Braking and stopping sight distance and minimum overtaking sight distance

Design speed	Braking and stoppin	ig sight distance (m)	Minimum overtaking sight	
(km/h)	1 lane road, green	2 lanes road	distance 2/3d2+d3+d4 (m)	
50		55	200	
40	80	40	150	
30	60	30	100	
20	40	20	70	

Table 13-17 Braking and stopping sight distance and minimum overtaking sight distance



(H1204) Corner cutting of farm roads

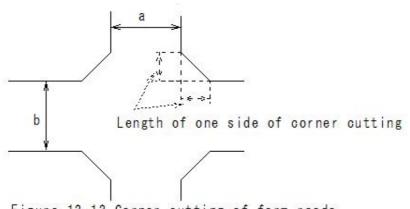
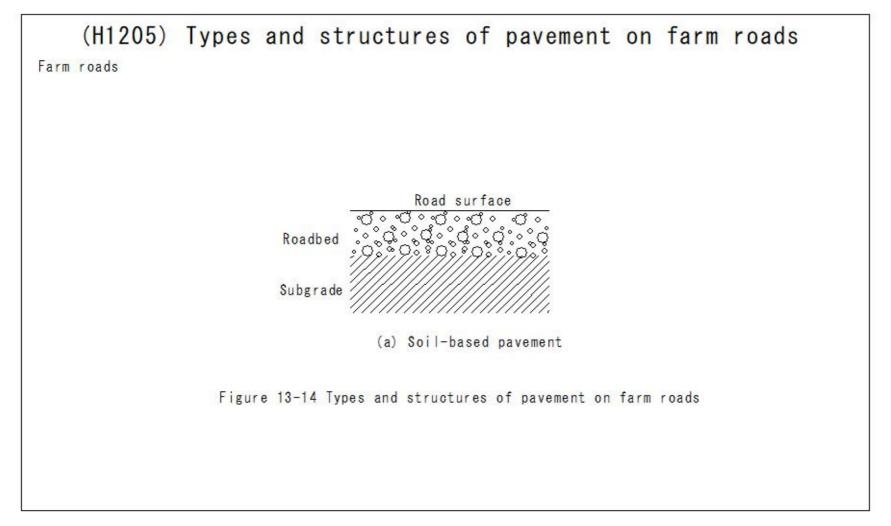


Figure 13-13 Corner cutting of farm roads

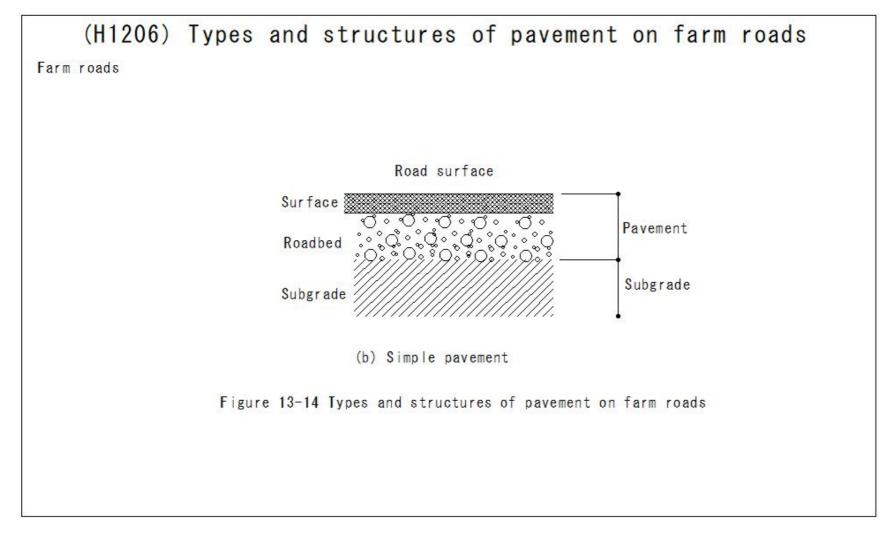
Table 13-18 Length of one s	side of corner cutting
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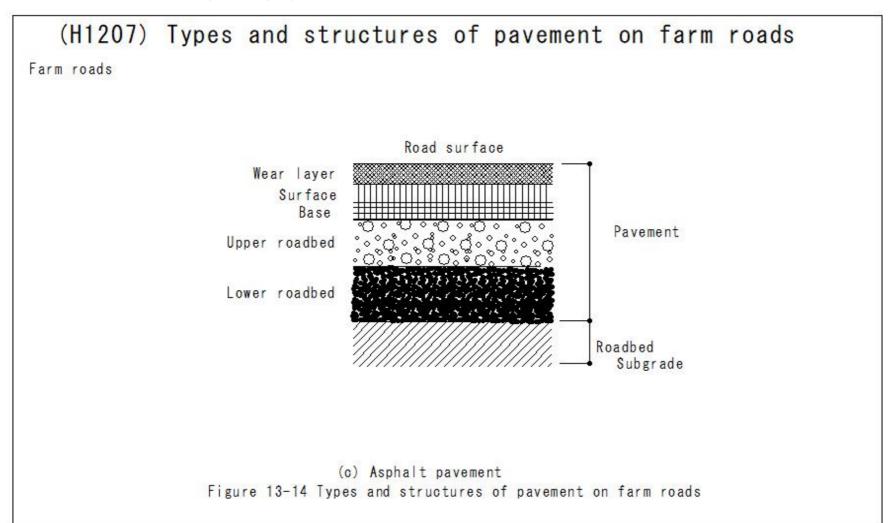
Road w	idth of intersecting	а			
road (m)		3	4	5	
	3	2.0	1.5	1.0	
b	4	1.5	1.0	0.5	
	5	1.0	0.5	0.0	

(H1205) Types and structures of pavement on farm roads



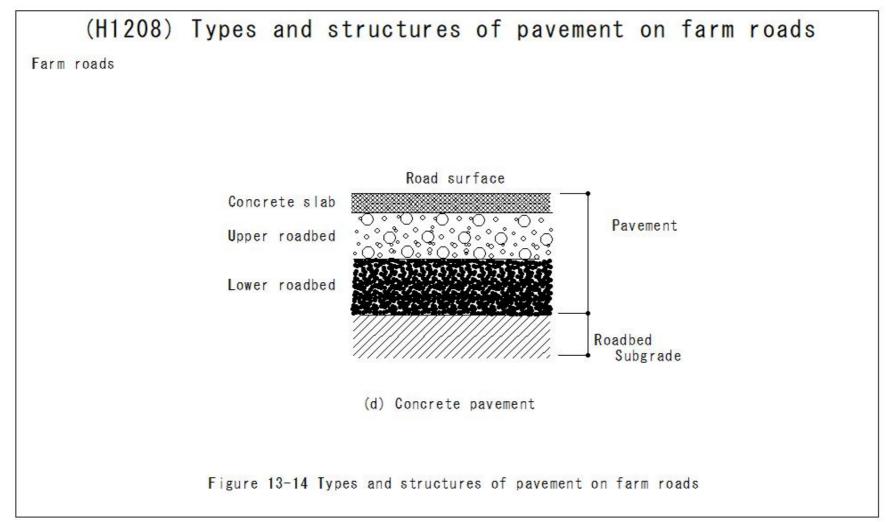
(H1206) Types and structures of pavement on farm roads

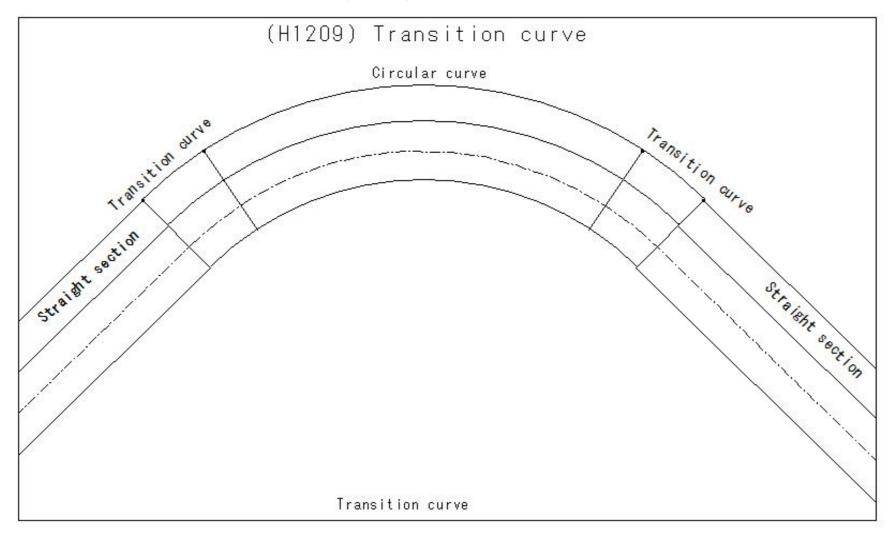




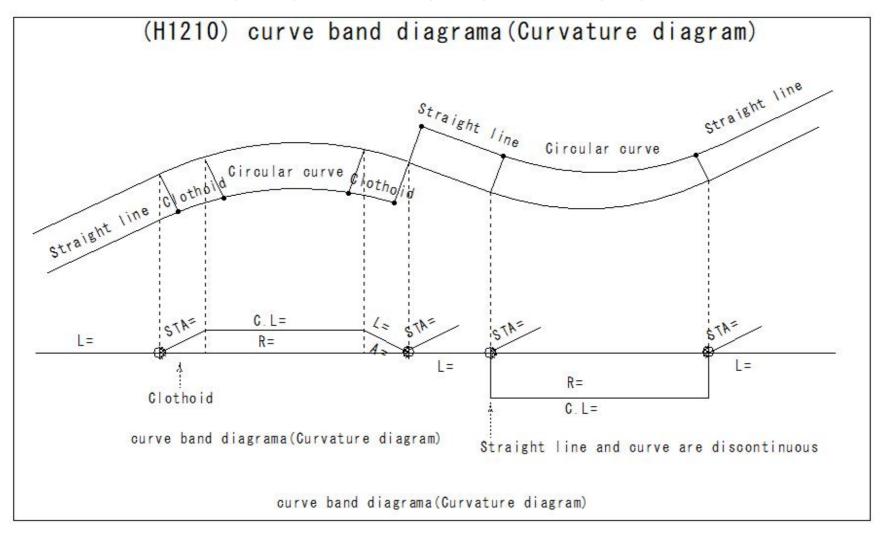
(H1207) Types and structures of pavement on farm roads

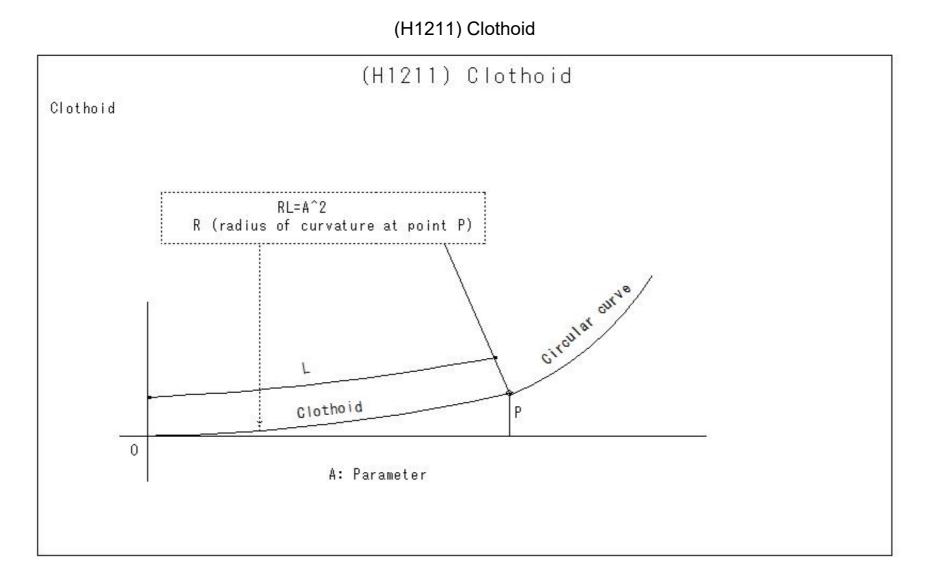
(H1208) Types and structures of pavement on farm roads

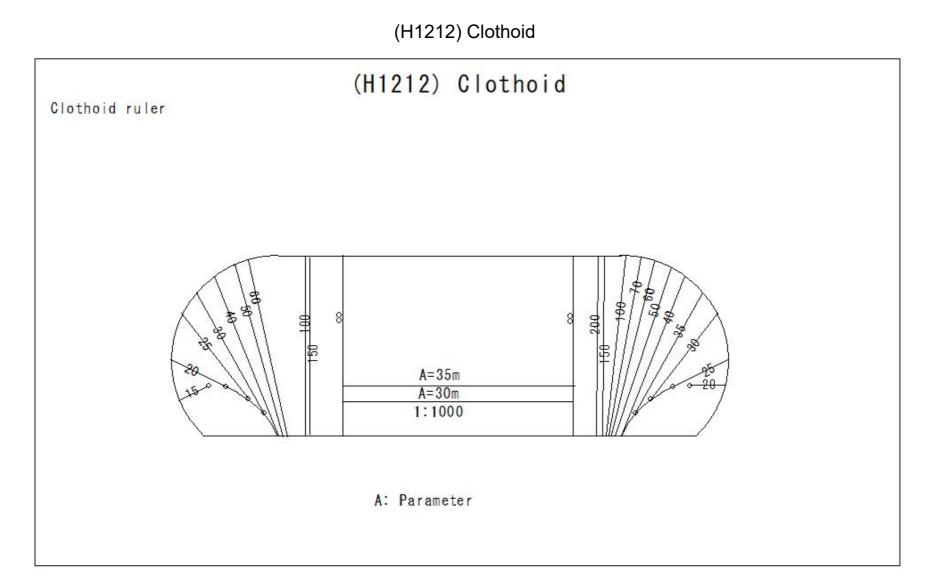


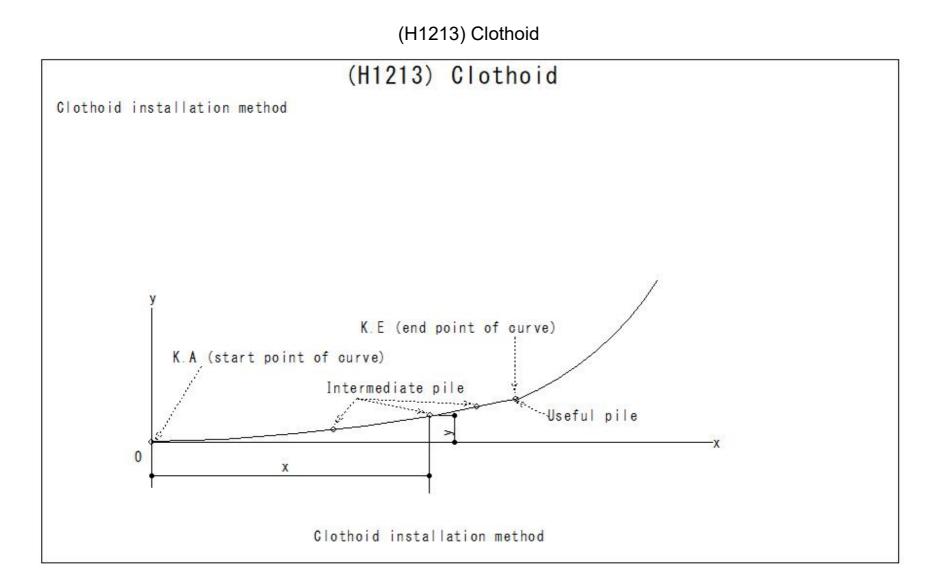


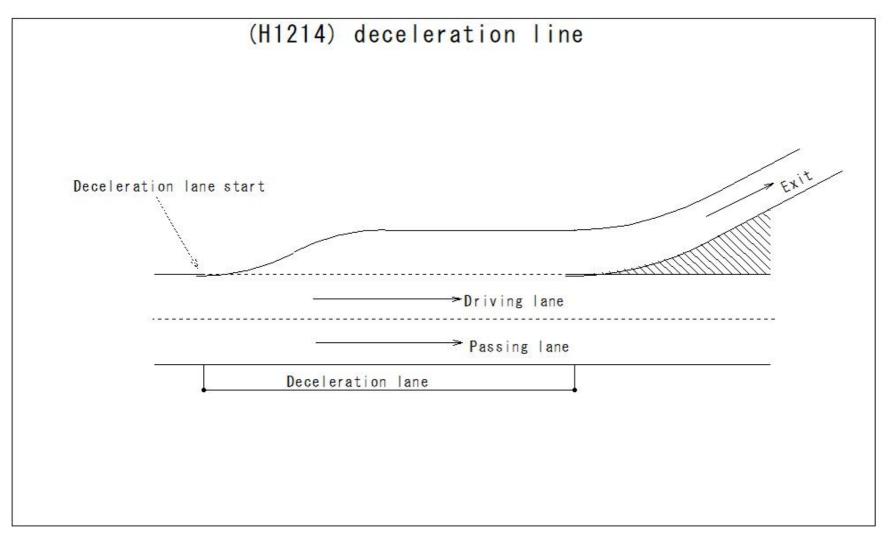
(H1210) curve band diagrama(Curvature diagram)

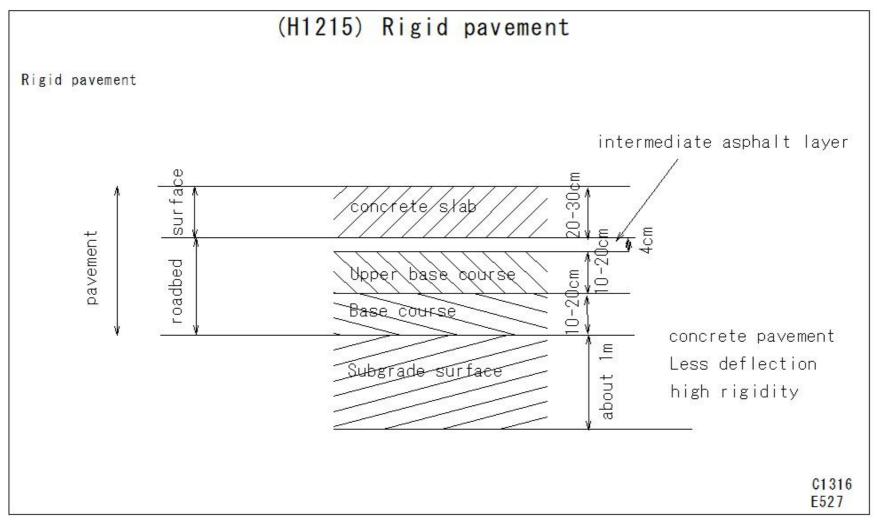




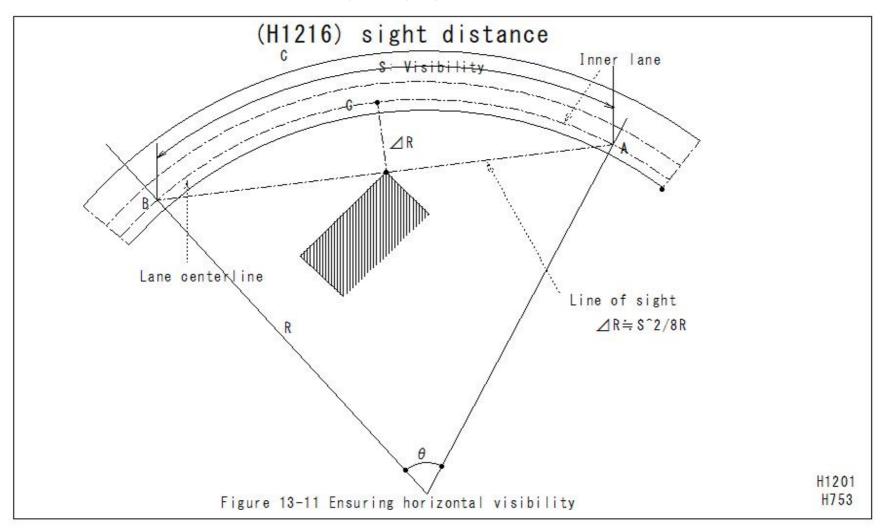


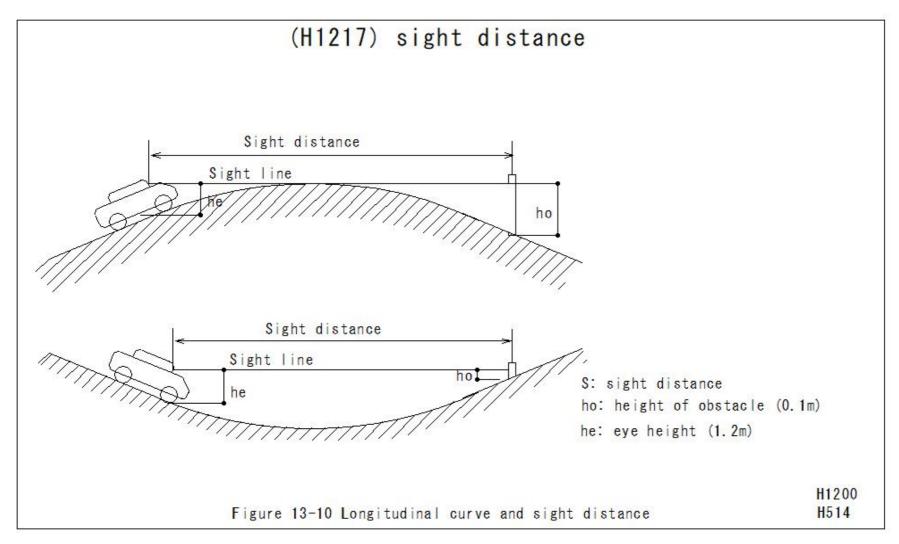


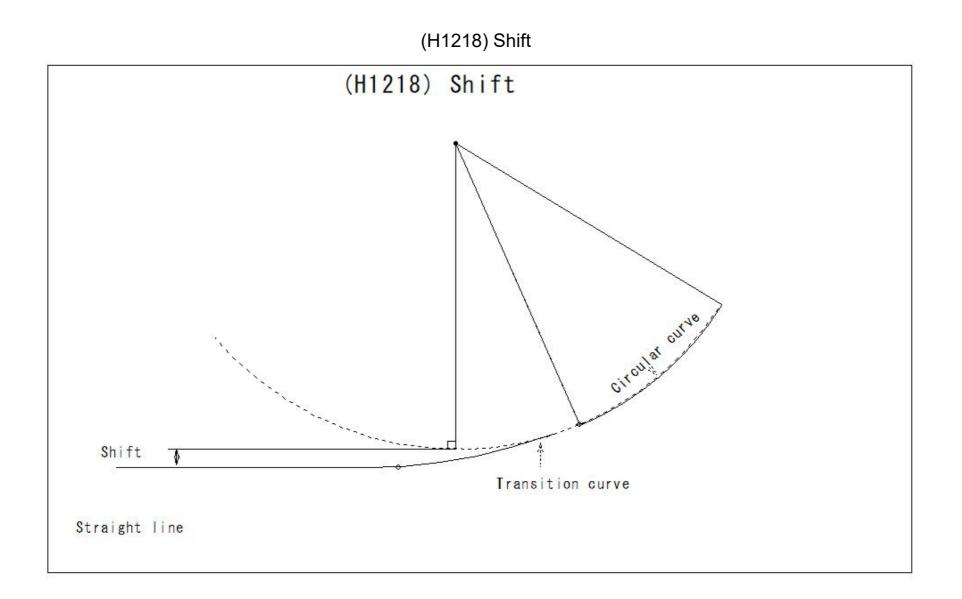


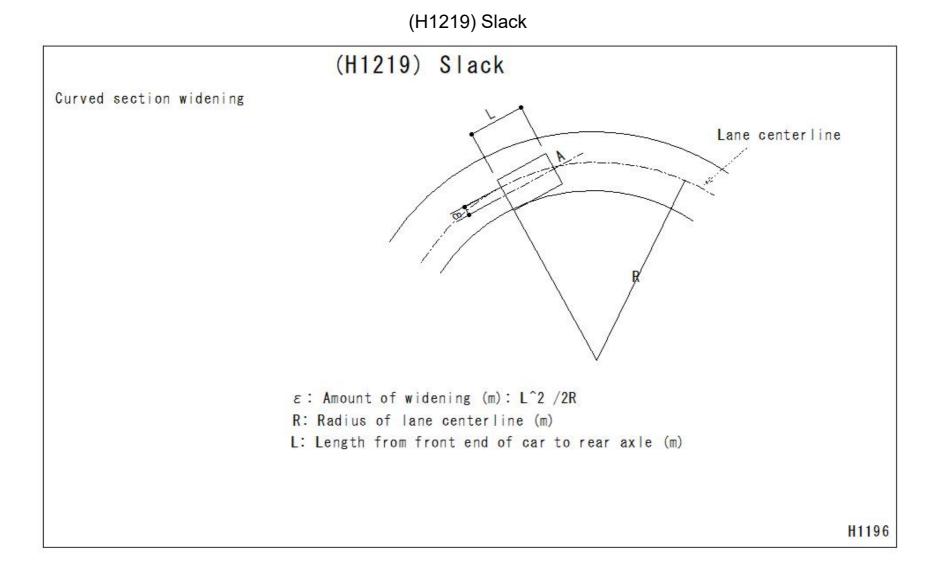


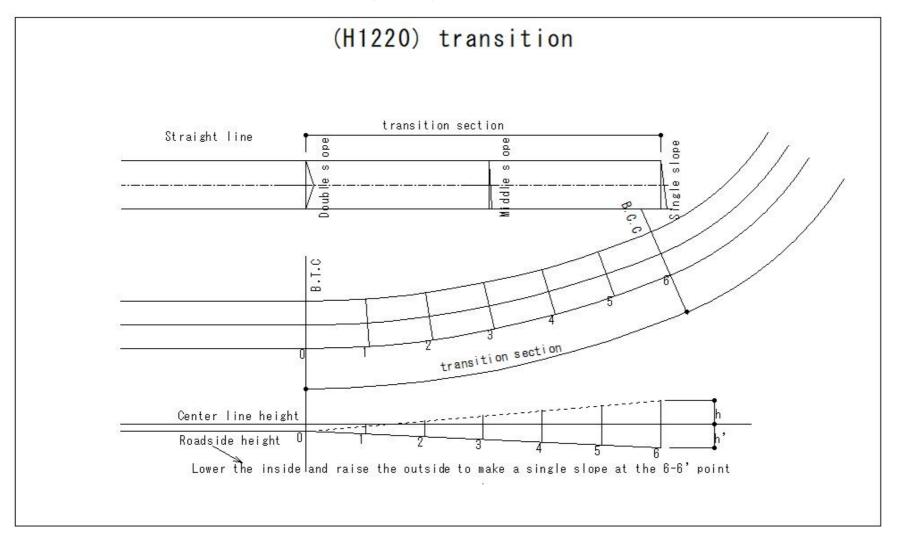
(H1216) sight distance

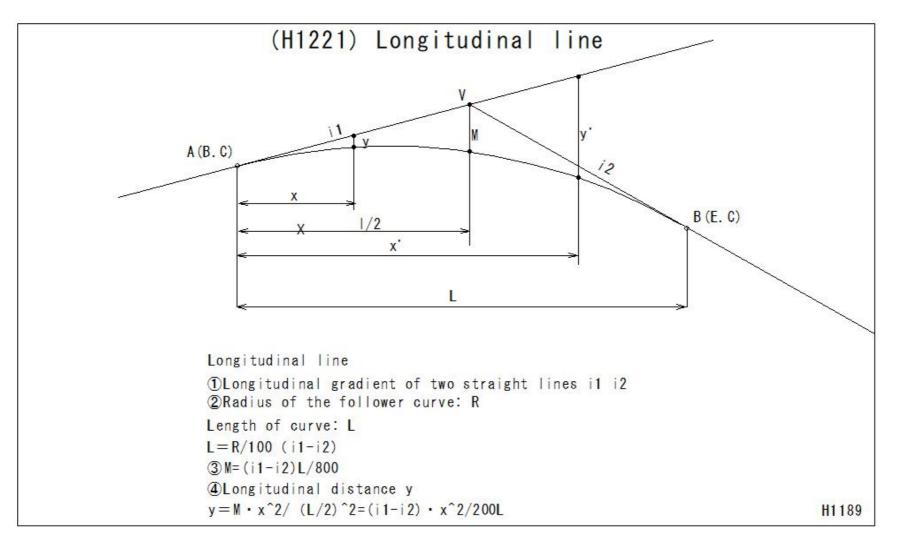


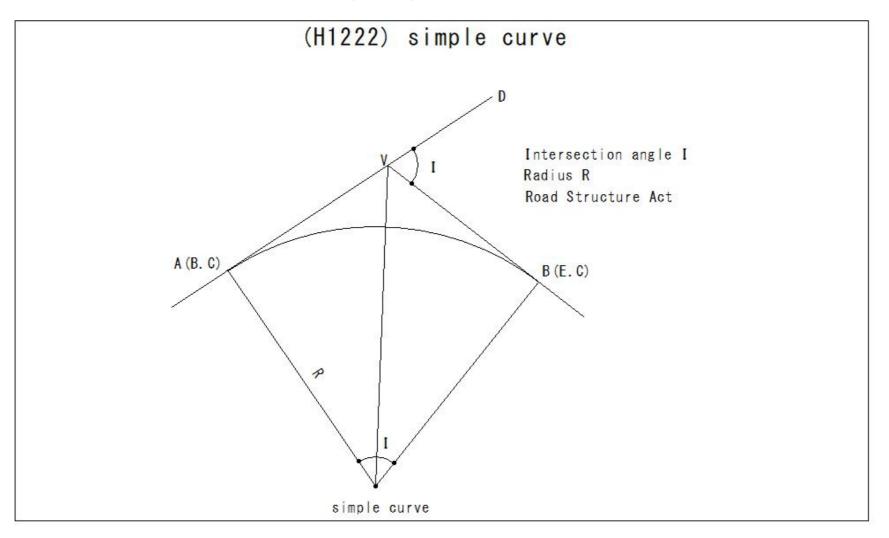


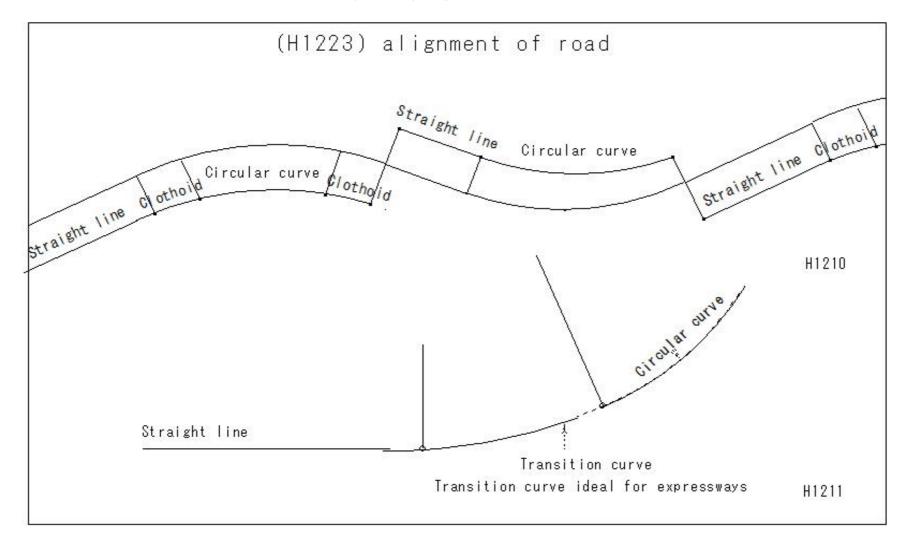




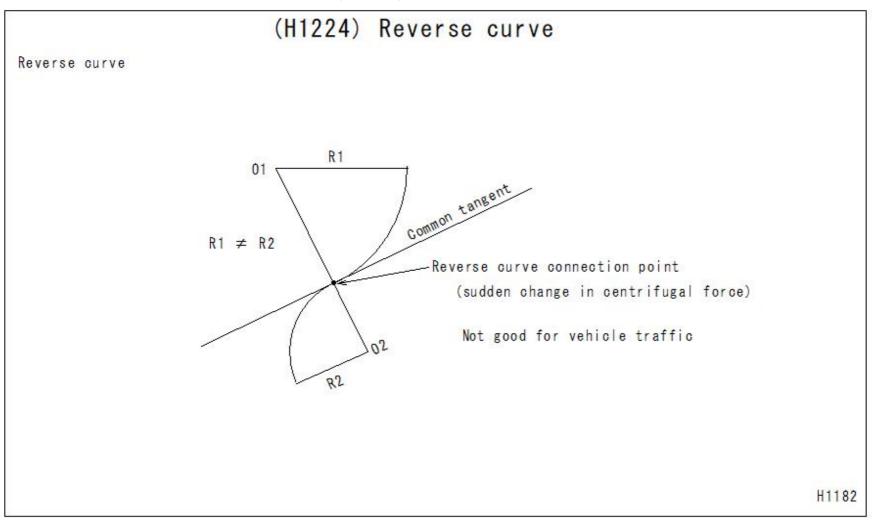


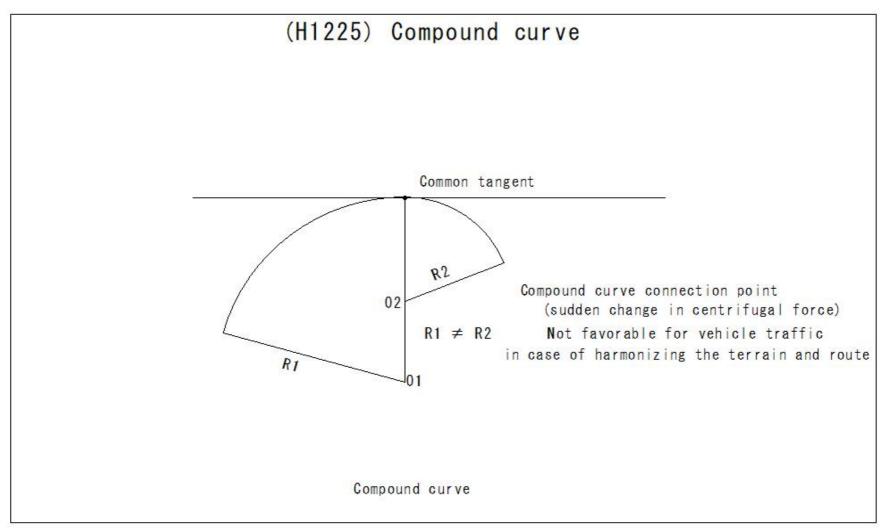


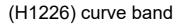


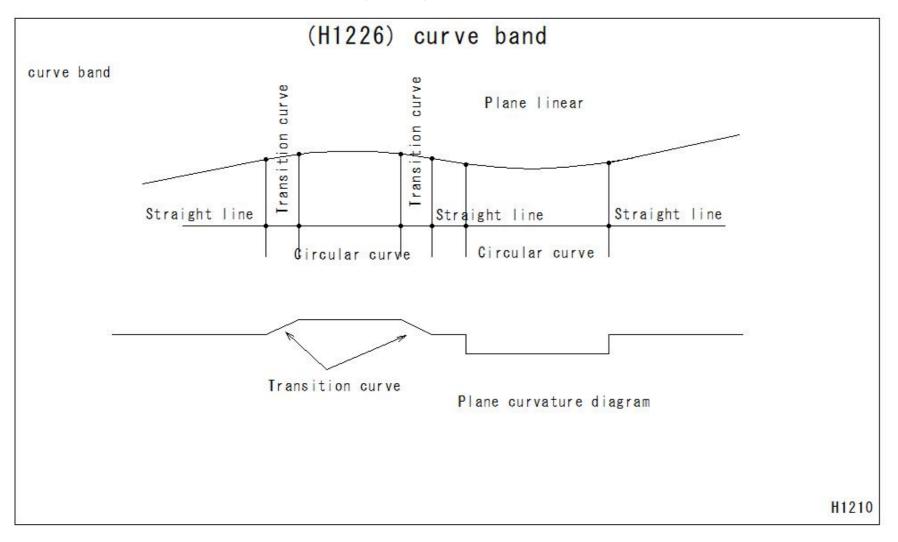




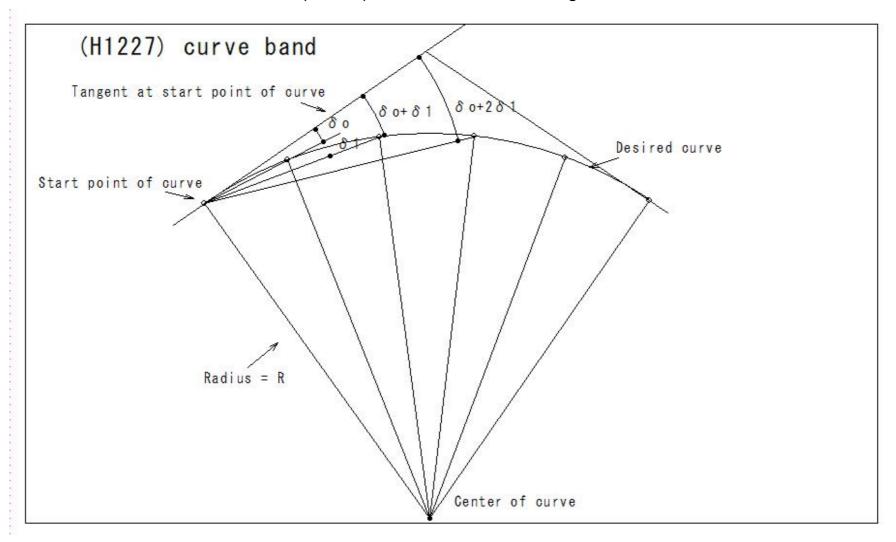




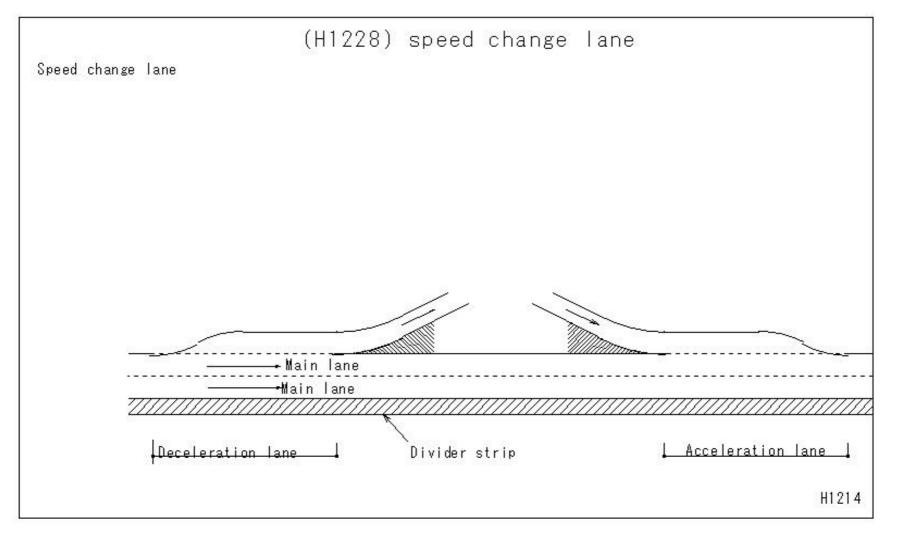


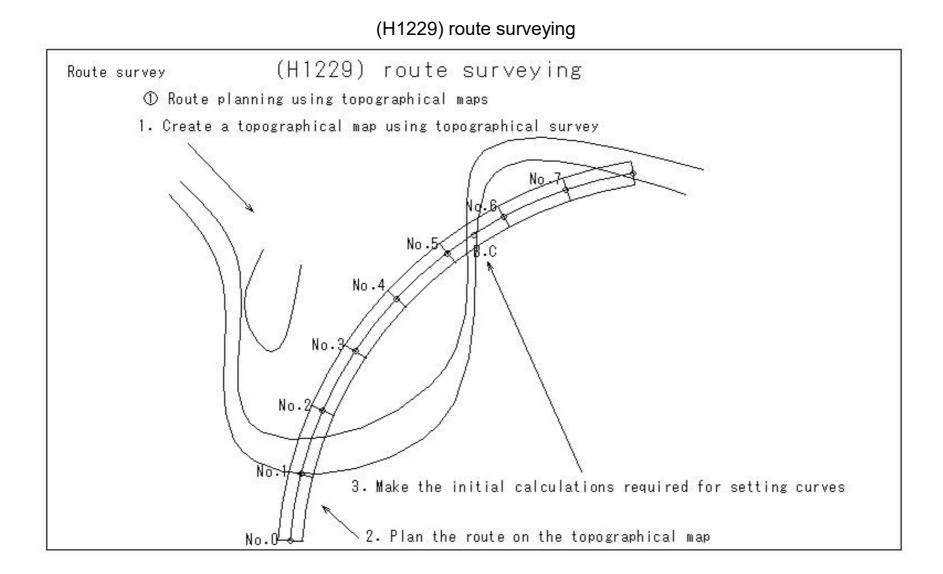


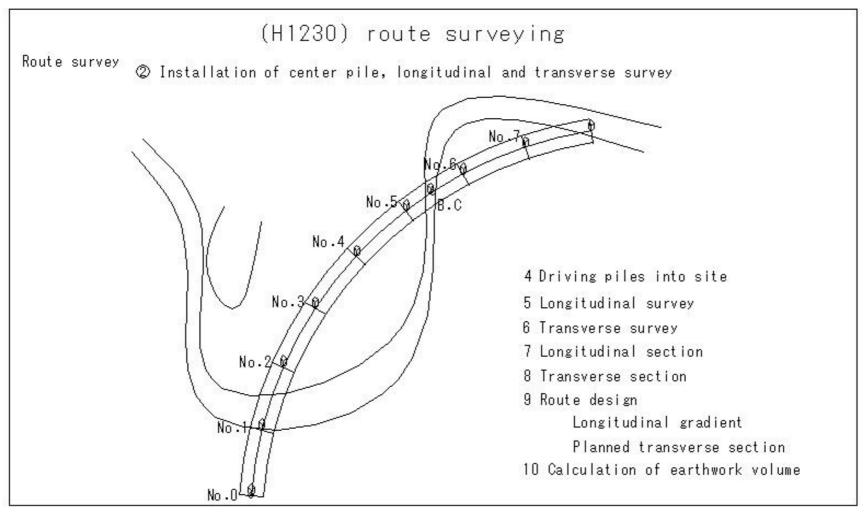
(H1227) method of deflection angle

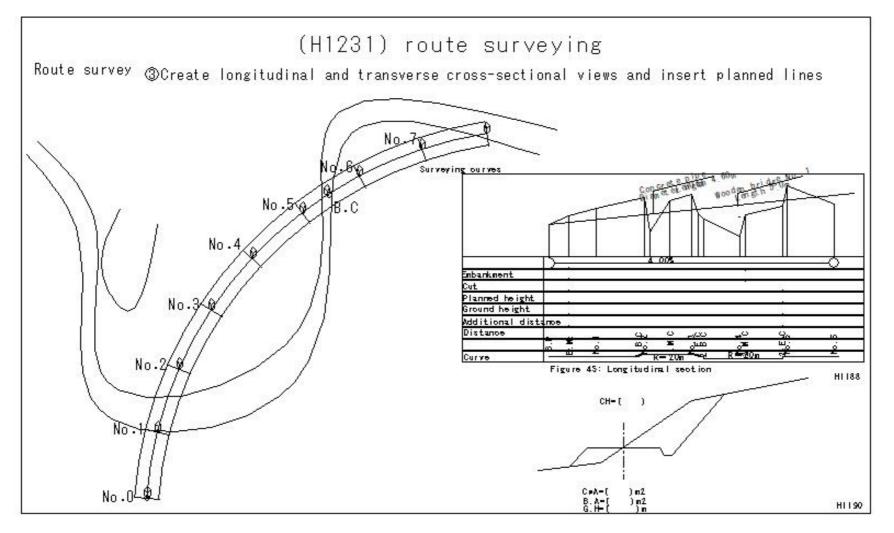


(H1228) Speed change lane

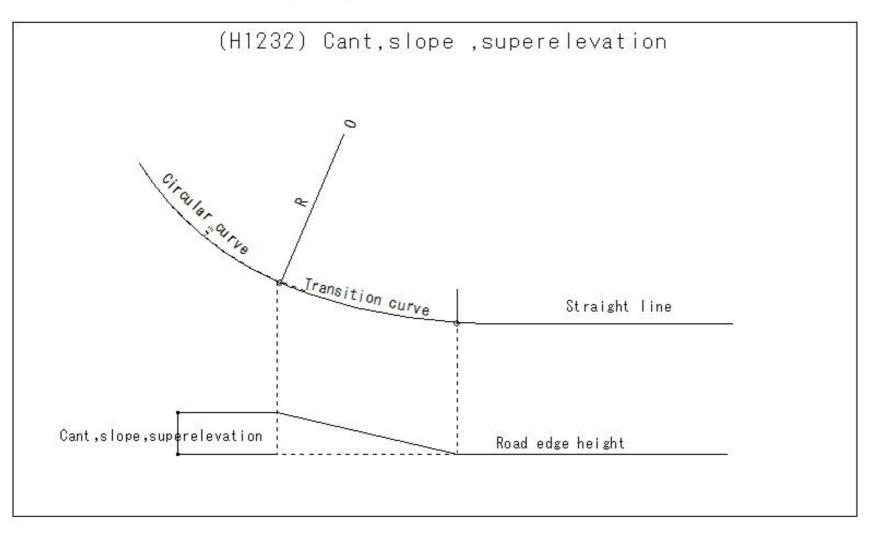




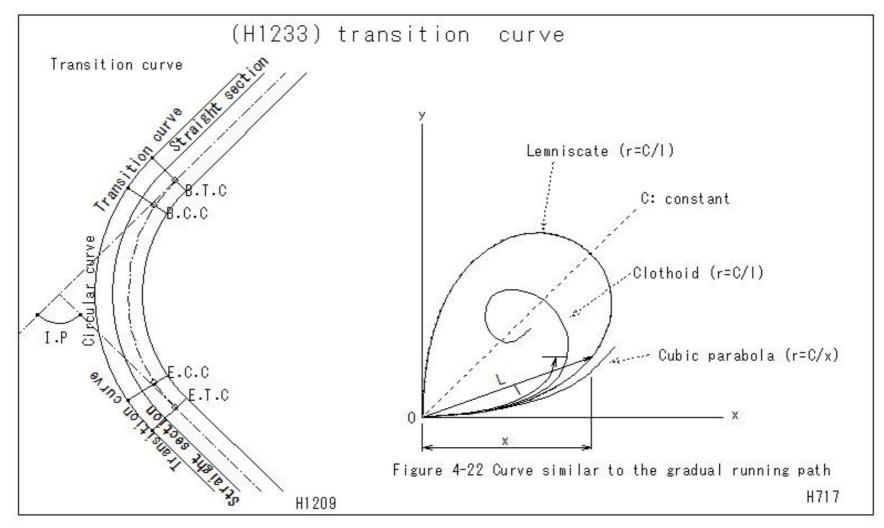


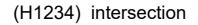


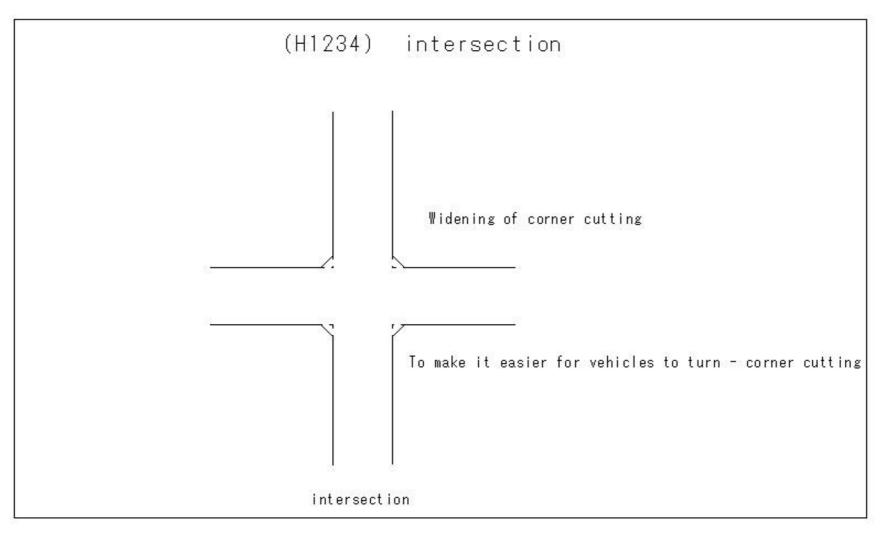
(H1232) Cant, slope , superelevation



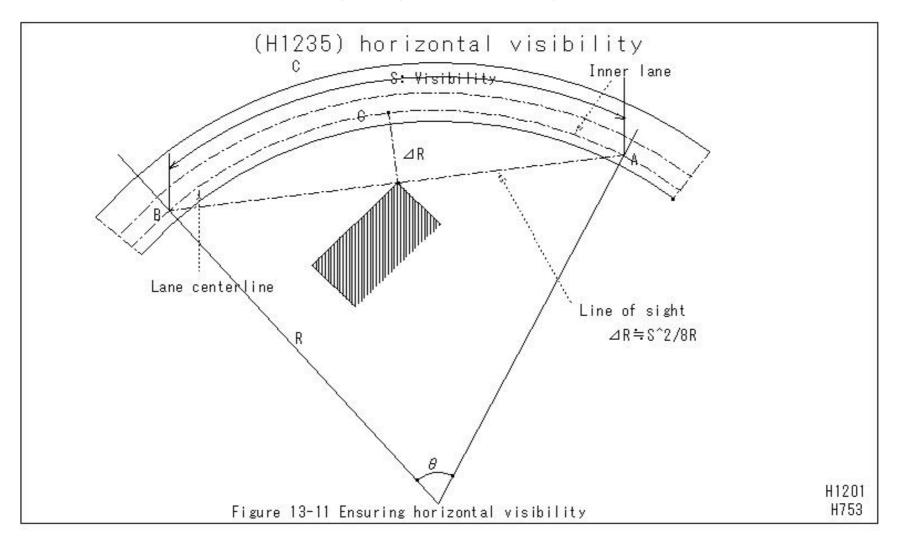




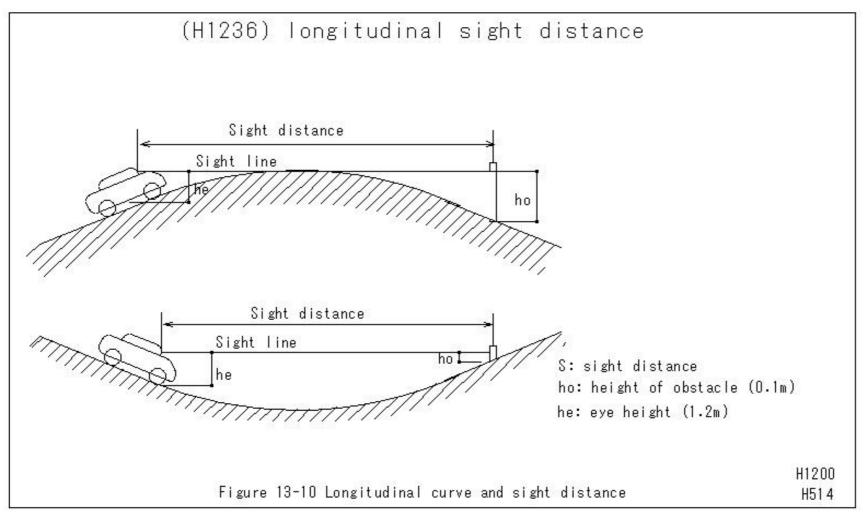




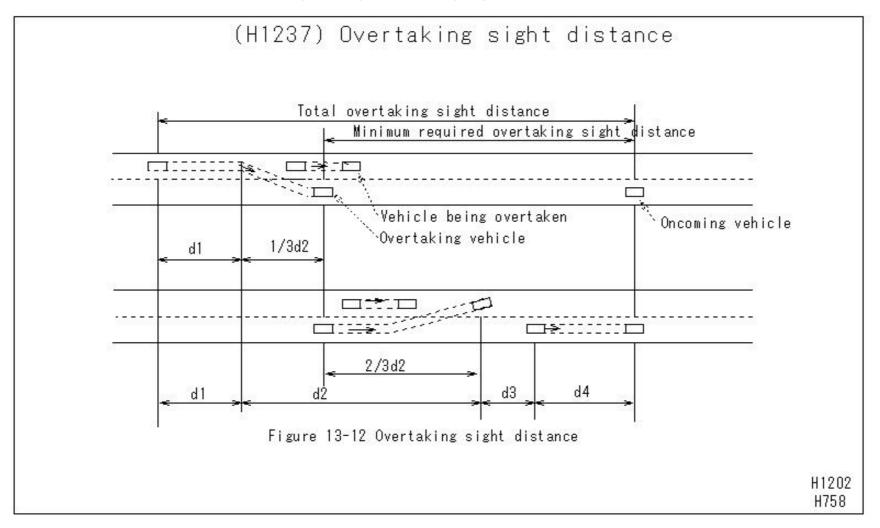
(H1235) horizontal visibility



(H1236) longitudinal sight distance



(H1237) Overtaking sight distance



## (H1238) Braking and stopping sight distance

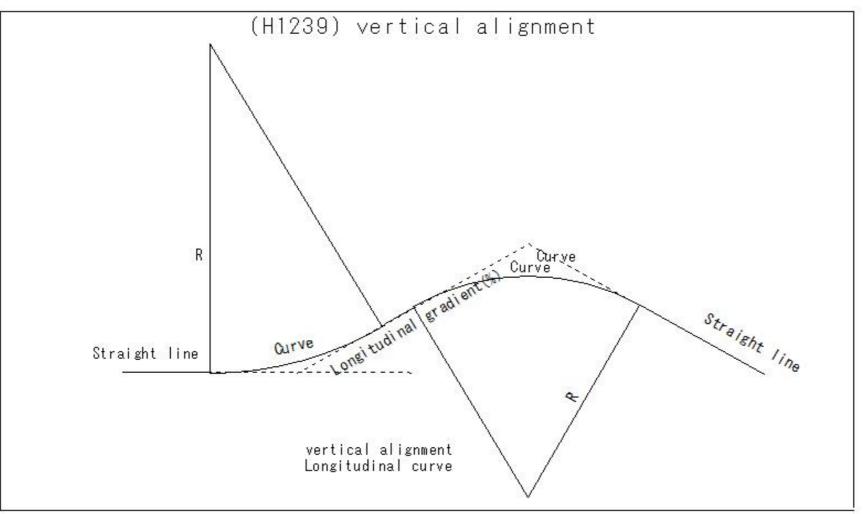
(H1238) Braking and stopping sight distance

Braking and stopping	sight distance a	and minimum overtaking sight distance

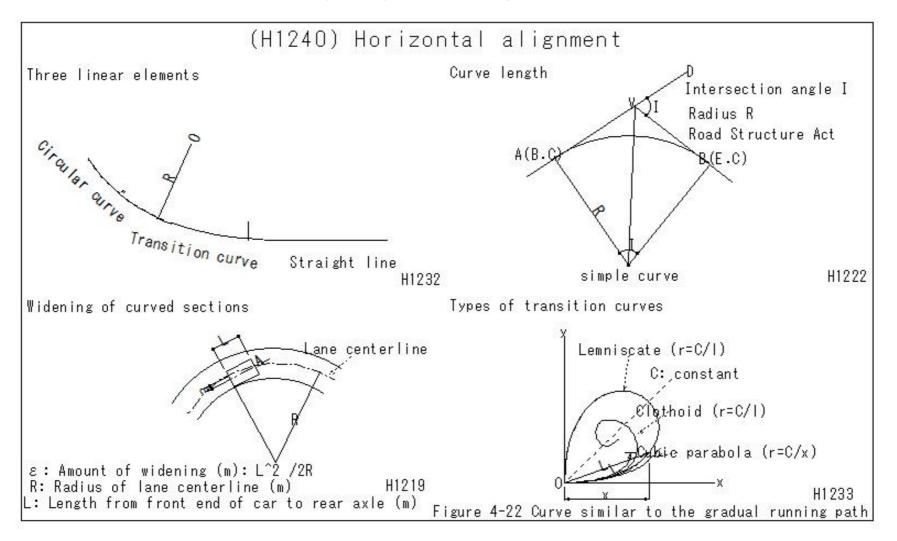
Design speed	Sight distance for braking and stopping (m)		Minimum overtaking sight
(km/h)	For one lane	For two lanes	distance (m)
50	-	55	200
40	80	40	150
30	60	30	100
20	40	20	70

Length of vertical curve (unit: meters)			
Design speed (km/h)	Length of vertical curve (m)		
50	40		
40	35		
30	25		
20	20		

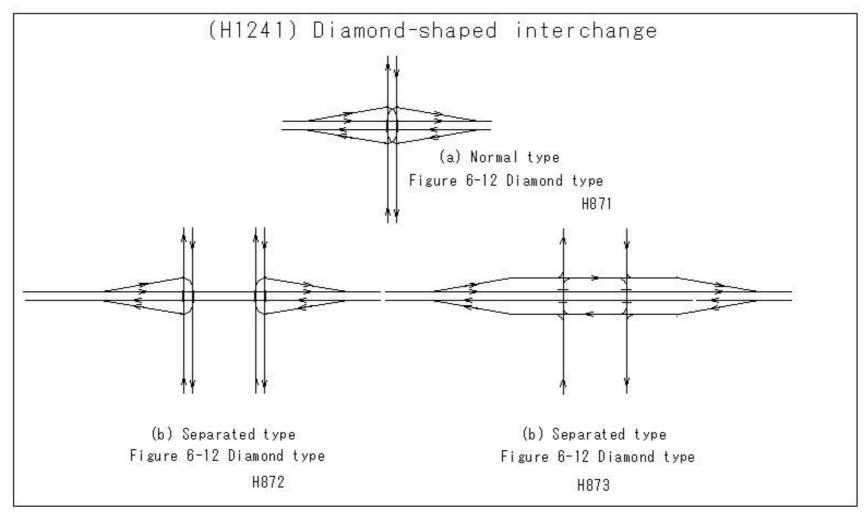




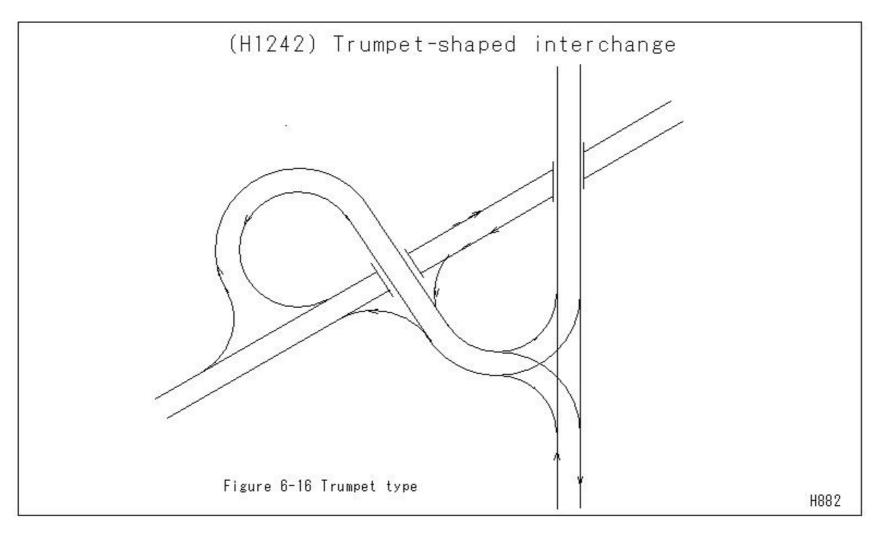
(H1240) Horizontal alignment



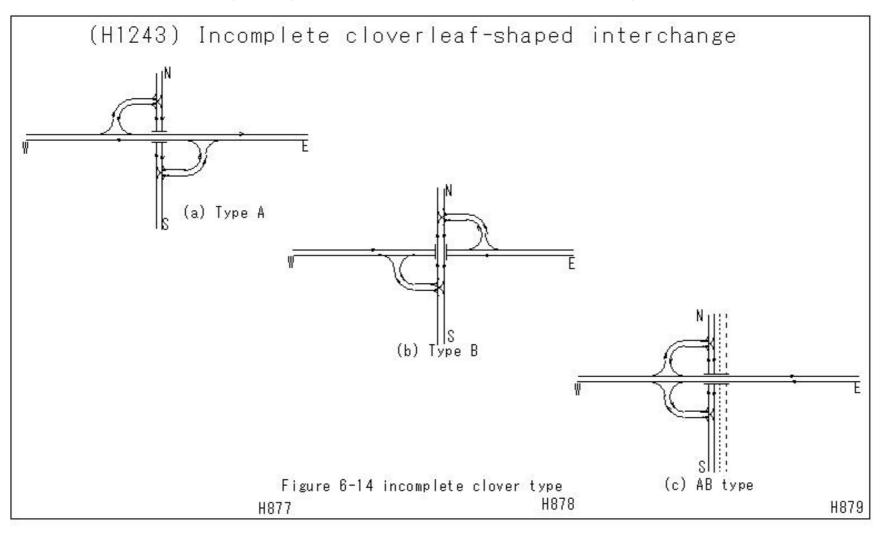
## (H1241) Diamond-shaped interchange



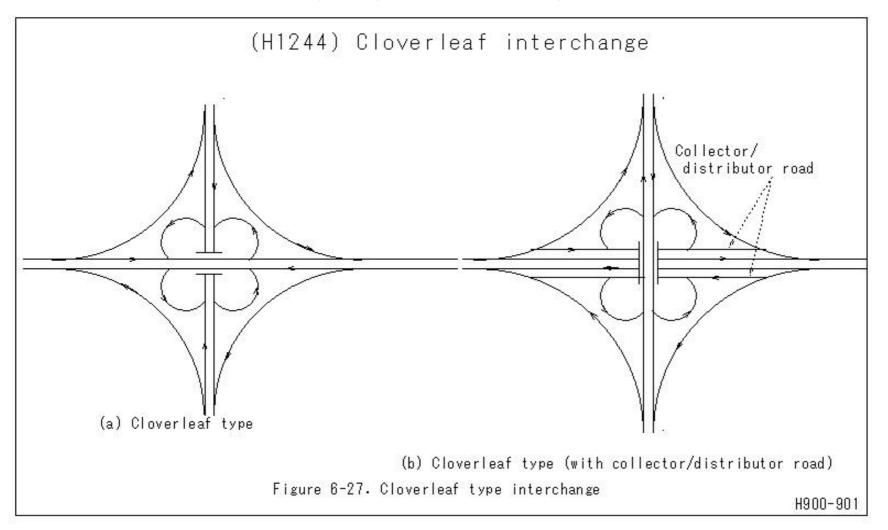
(H1242) Trumpet-shaped interchange



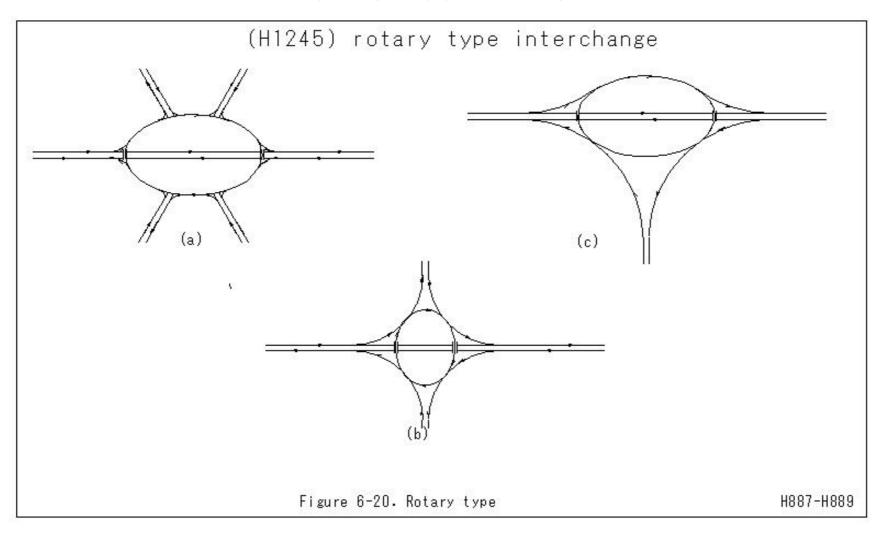
(H1243) Incomplete cloverleaf-shaped interchange



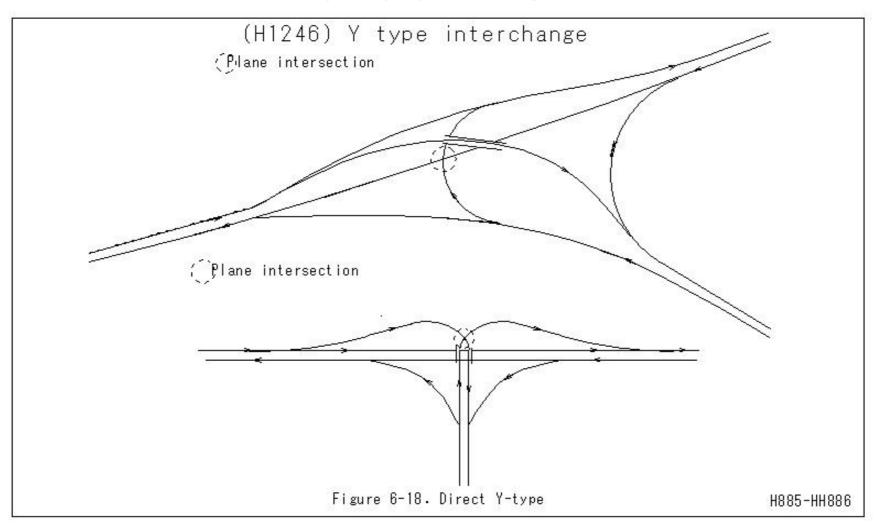
(H1244) Cloverleaf interchange



(H1245) rotary type interchange



(H1246) Y type interchange



(H1247) mixing work on the way

