ADA DATA DICTIONARY DIAGRAMS

2nd Edition
December 2010

prepared by
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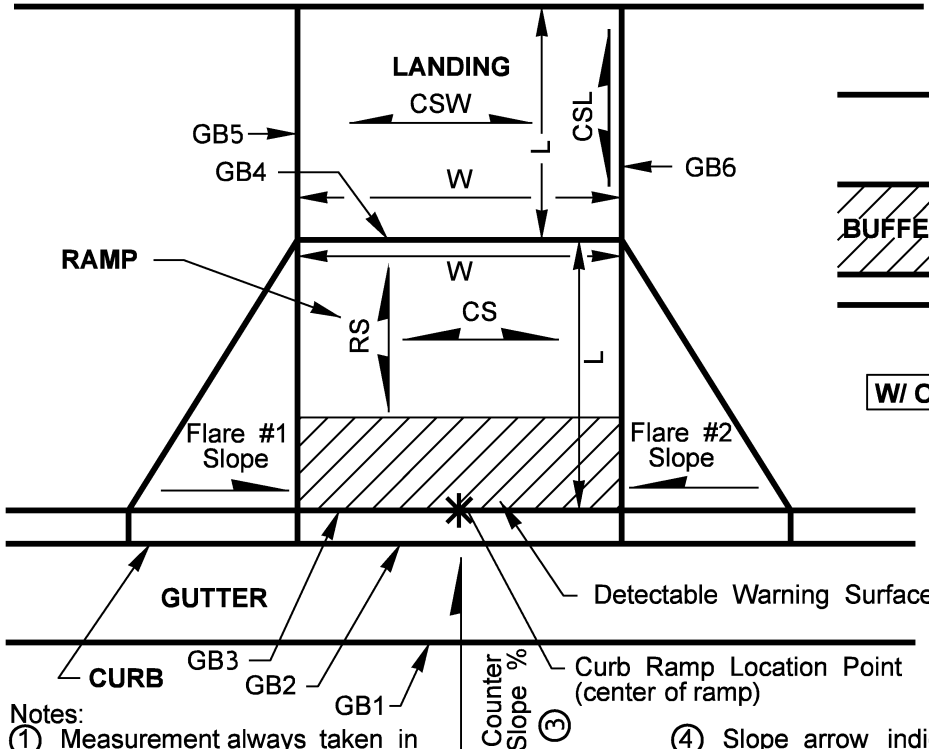
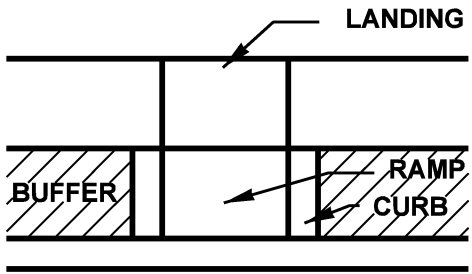
Washington State Department of Transportation





may also be w/ out flare when buffer present

W/ OUT FLARE/ WITH BUFFER

RS- Running Slope
CS- Cross Slope
CSW- Cross Slope Width
CSL- Cross Slope Length
GB- Grade Break
W- Width
L- Length

Notes:

① Measurement always taken in center of element, except where noted.

② Grade Breaks must be flush the entire width. Take worse case measurement for entire width.

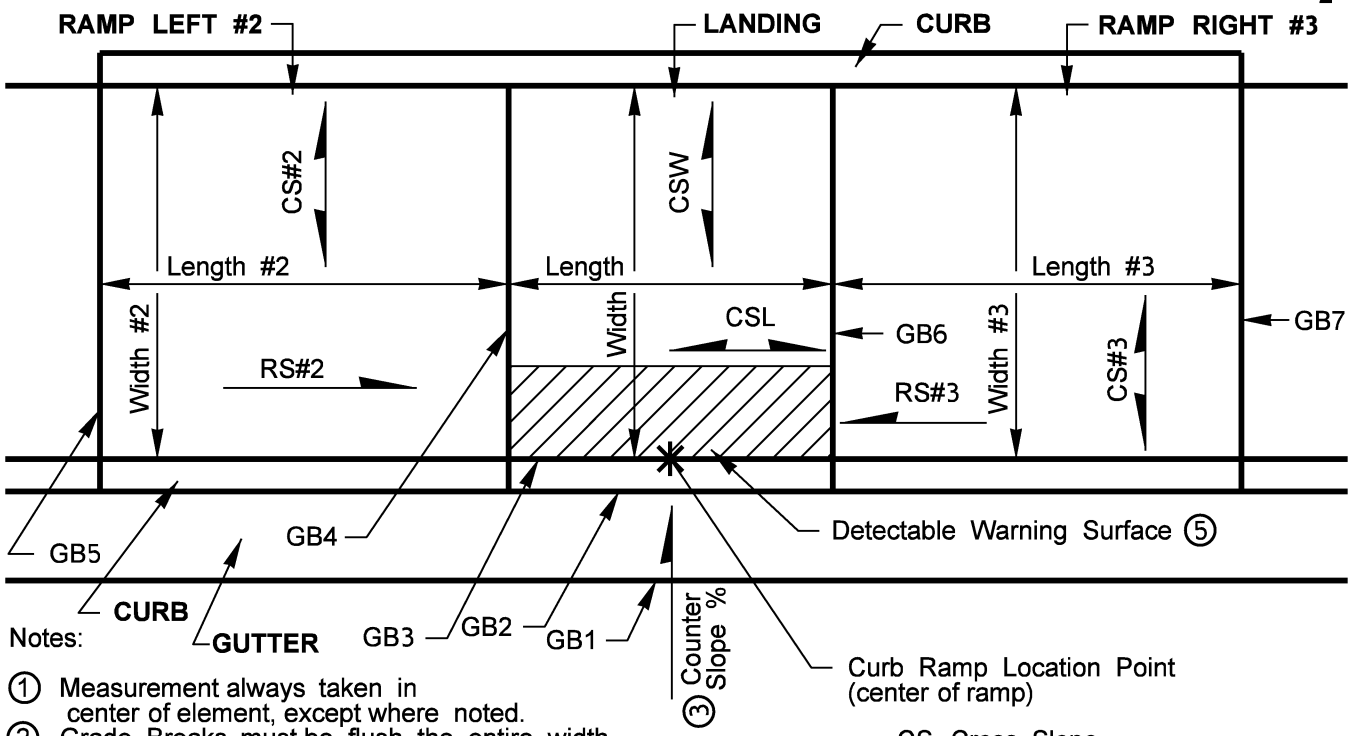
③ Counter Slopes are measured from face of curb to edge of gutter or 2 ft. max. from face of curb when gutter not present.

④ Slope arrow indicates positive read. If both directions shown just record value.

⑤ See Detectable Warning Surface detail.

⑥ Flare Slope measured parallel to curb.

PERPENDICULAR CURB RAMP



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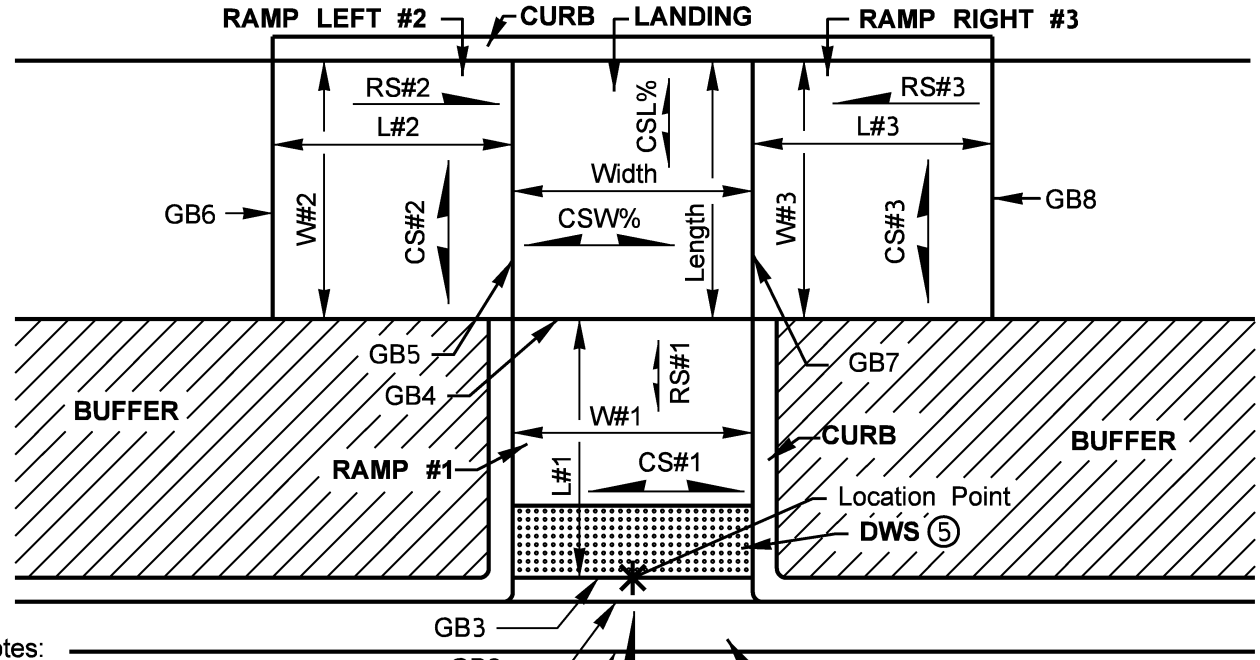
④ Slope arrow indicates positive read. If both directions shown just record value.
⑤ See Detectable Warning Surface detail.

CS- Cross Slope
CSW- Cross Slope Width
CSL- Cross Slope Length
GB- Grade Break
RS- Running Slope

PARALLEL CURB RAMP



Notes:

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③ Counter Slopes are measured from face of curb to edge of gutter or 2 ft. max. from face of curb when gutter not present.

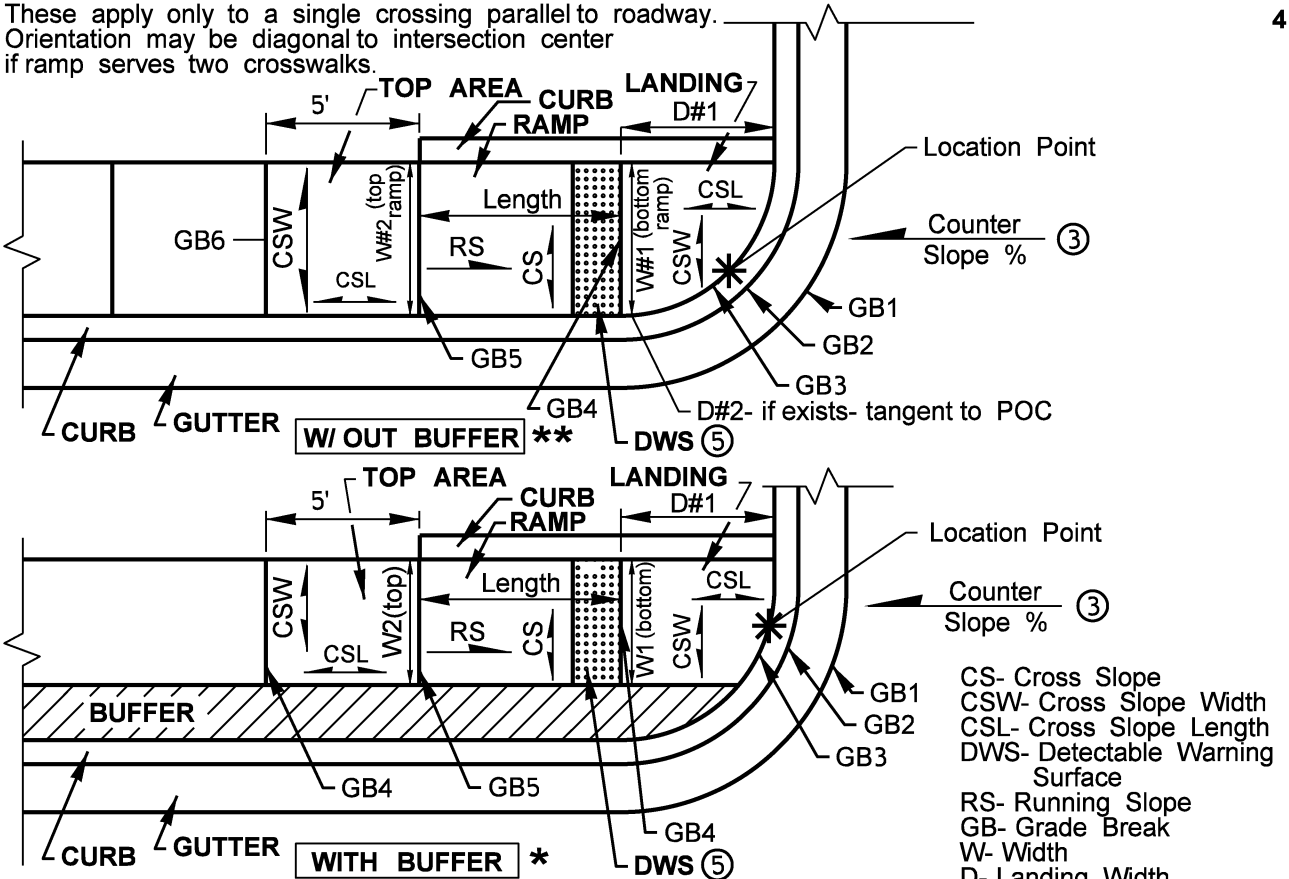
④ Slope arrow indicates positive read. If both directions shown, just record value.

⑤ See Detectable Warning Surface detail.

RS- Running Slope
CS- Cross Slope
W- Width
L- Length
GB- Grade Break
DWS- Detectable Warning Surface

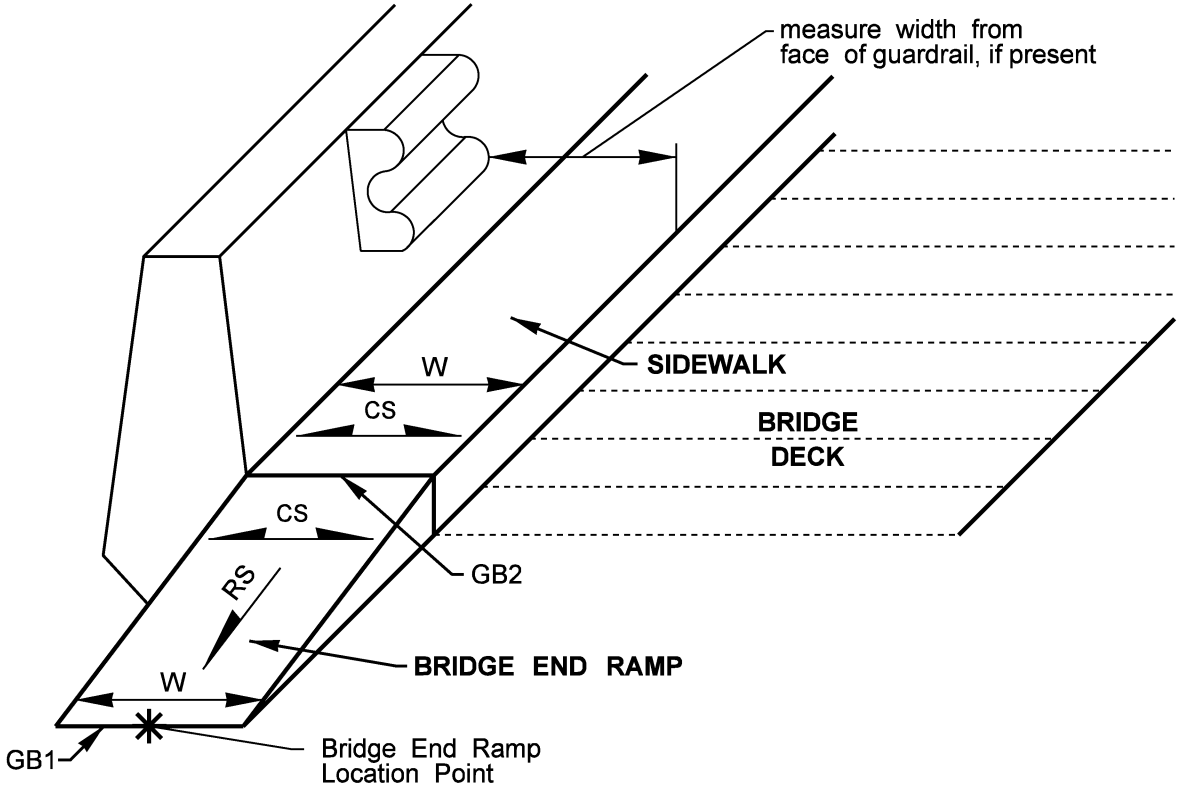
COMBINATION CURB RAMP

* These apply only to a single crossing parallel to roadway.
** Orientation may be diagonal to intersection center if ramp serves two crosswalks.

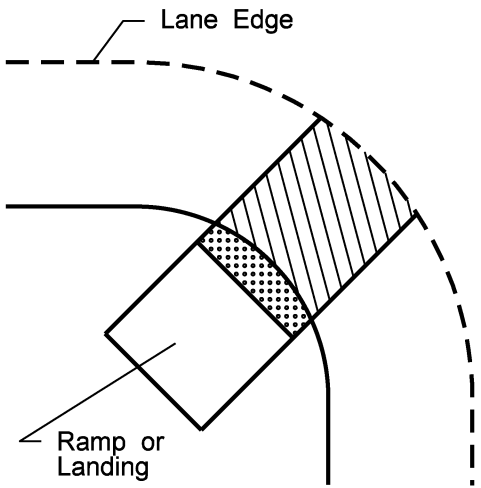


CS- Cross Slope
CSW- Cross Slope Width
CSL- Cross Slope Length
DWS- Detectable Warning Surface
RS- Running Slope
GB- Grade Break
W- Width
D- Landing Width

PARALLEL CURB RAMP-One Direction

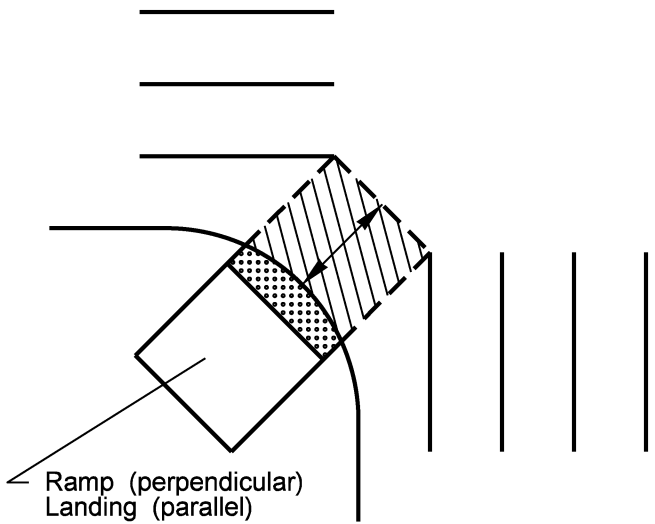


SIDEWALK ON BRIDGE/BRIDGE END RAMP



Un-marked Crosswalk
outside travelled way

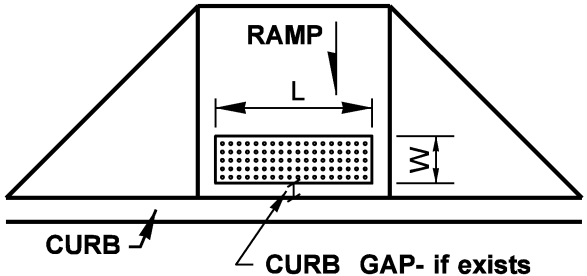
Measure Clear Space from center of ramp/landing face of curb ⊥, area within crosswalk or outside travelled way.

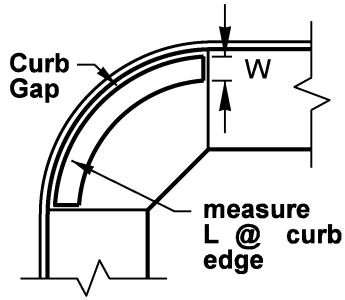


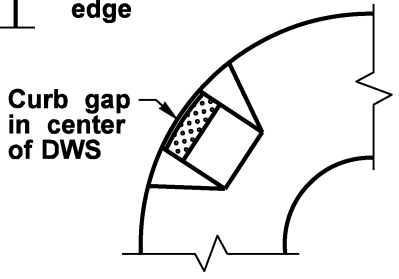
Marked Crosswalk

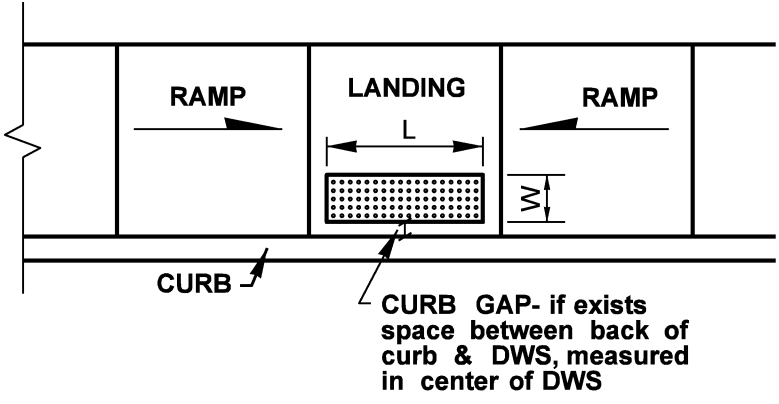
* serves two crosswalks and points toward center of intersection

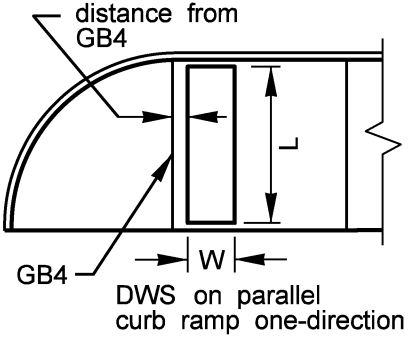
DIAGONAL CURB RAMP*- Clear Space



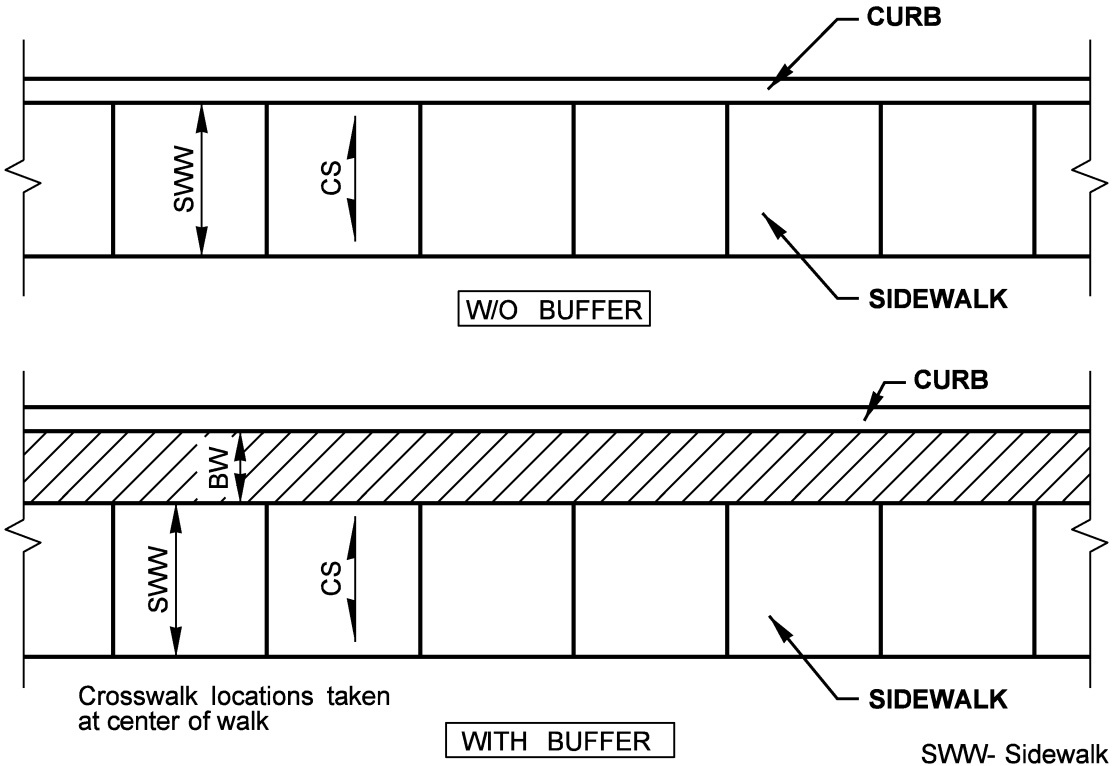






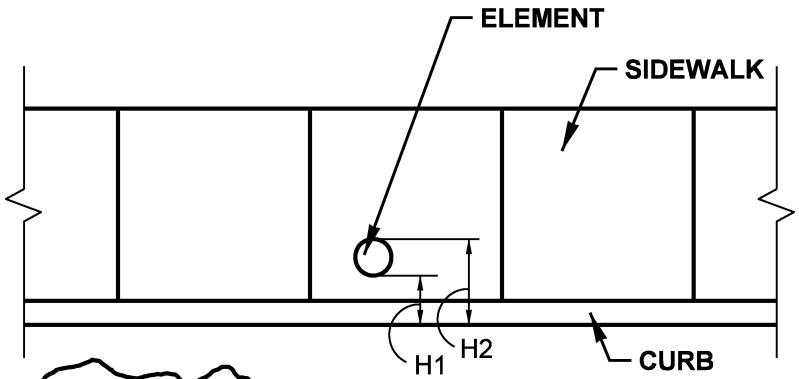


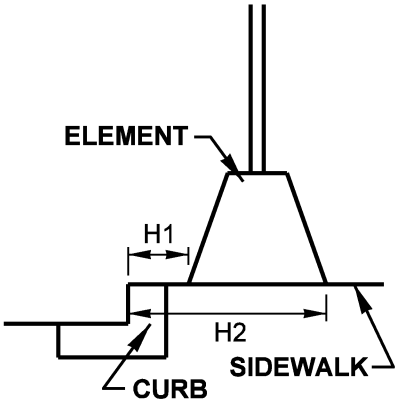
DWS- Detectable Warning Surface

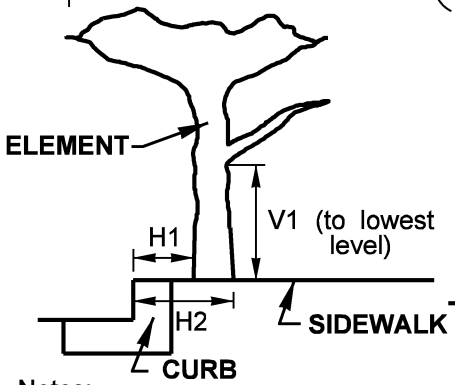


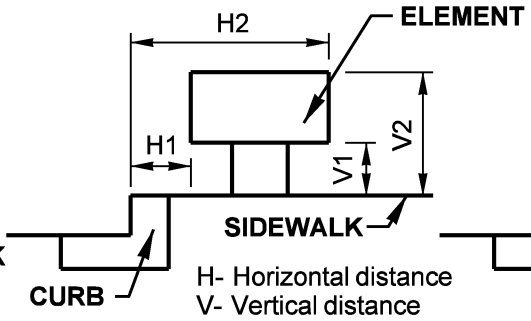
SWW- Sidewalk Width
BW- Buffer Width
CS- Cross Slope

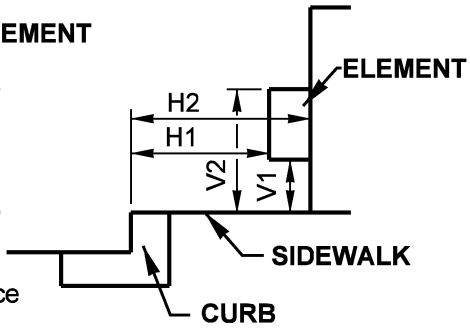
SIDEWALK ADJACENT





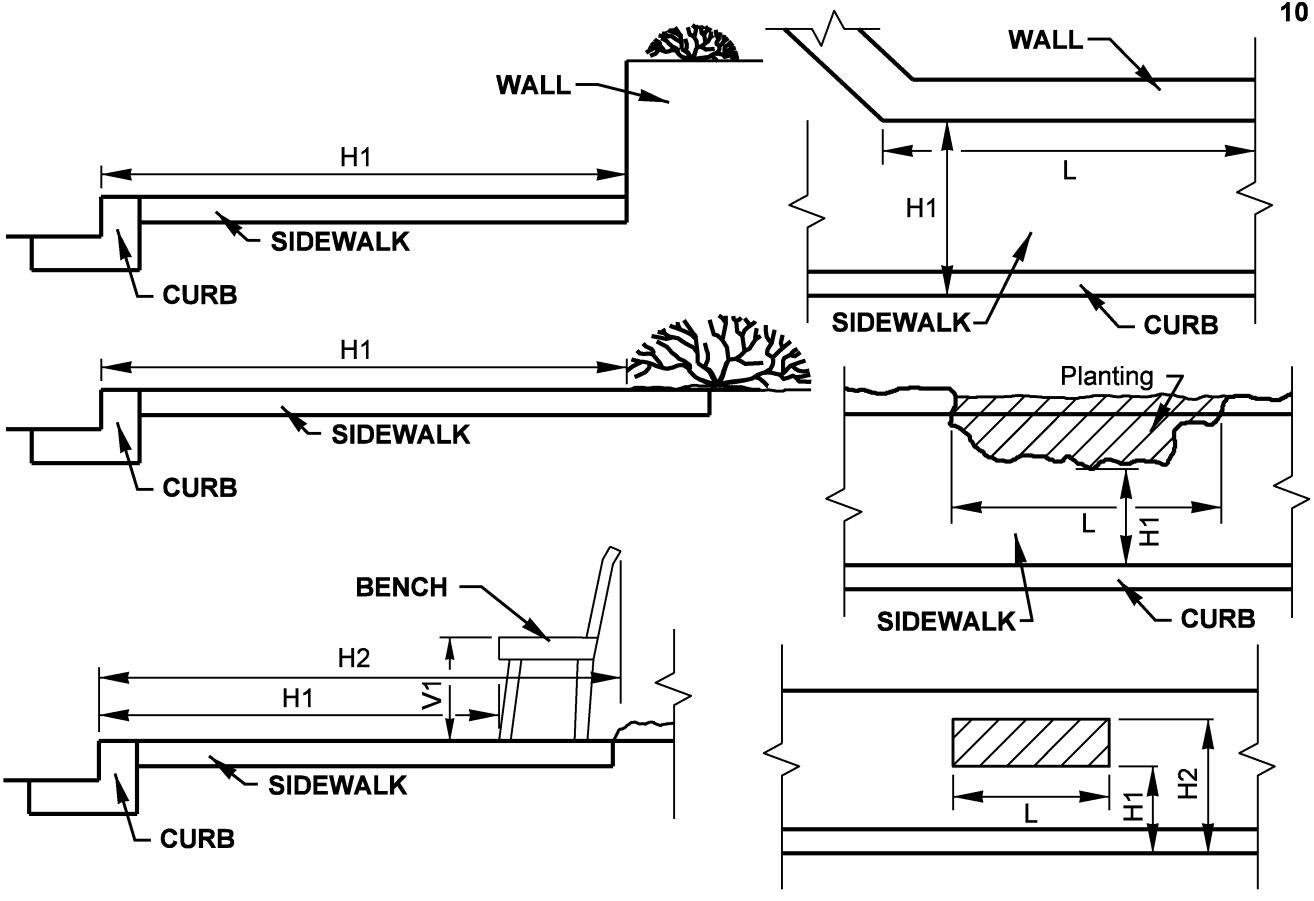




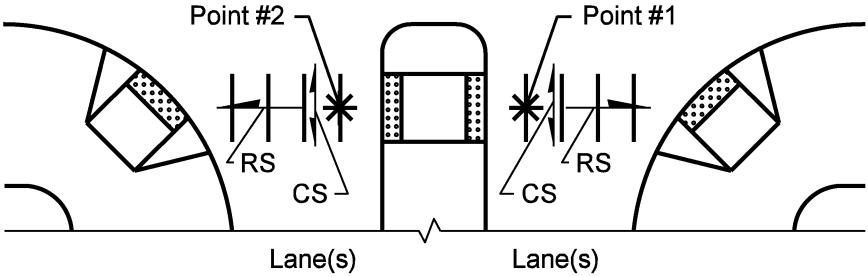


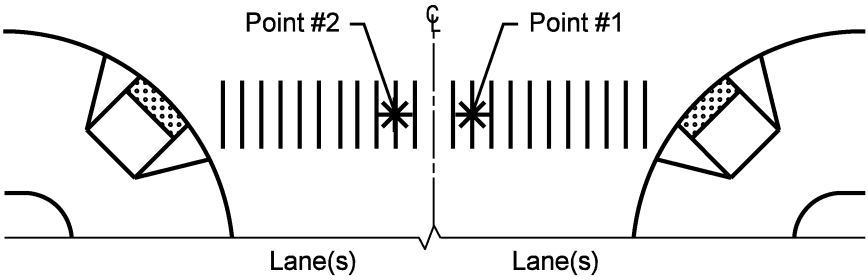
Notes:
① Horizontal measurement from face of curb.
② Vertical distance measured from surface of sidewalk.
③ Obstruction may be a temporarily placed object such as a sign board, parked car or garbage can.

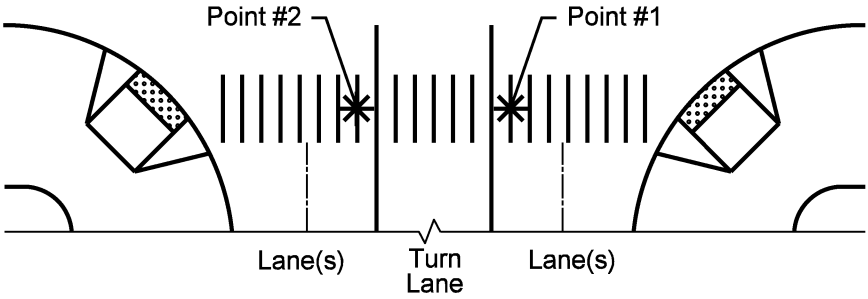
OBSTRUCTION



OBSTRUCTIONS



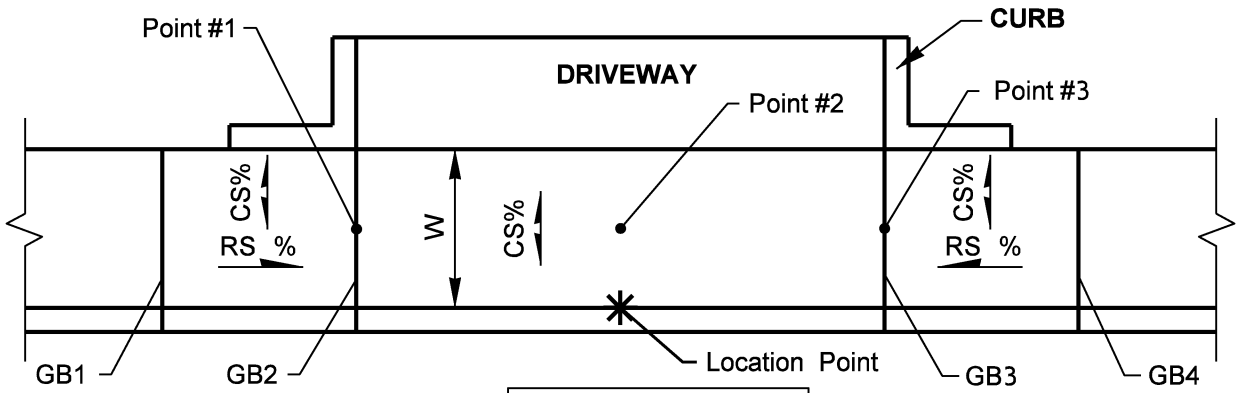




Notes:
1) Points 1 & 2 best taken in center of lane to avoid wheel ruts.
2) RS & CS taken at points #1 & #2.
3) Measurements taken in middle of crosswalk- marked or unmarked.

✱ Location of RS & CS. No GPS at these locations.

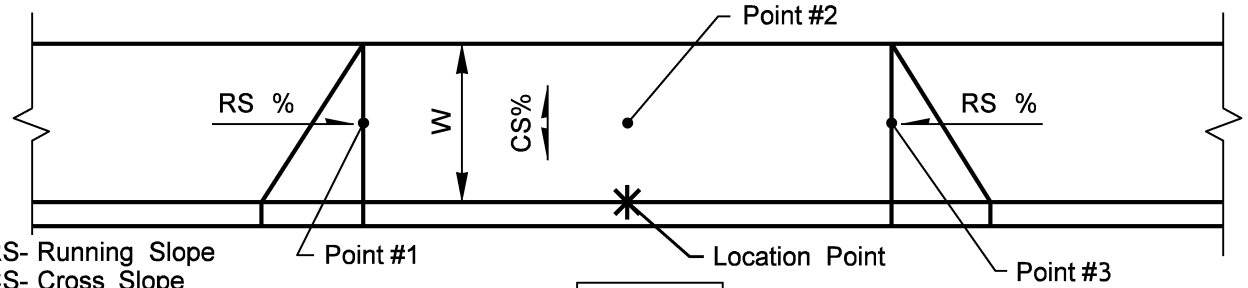
CROSSWALK



PARALLEL ACCESS

Notes:

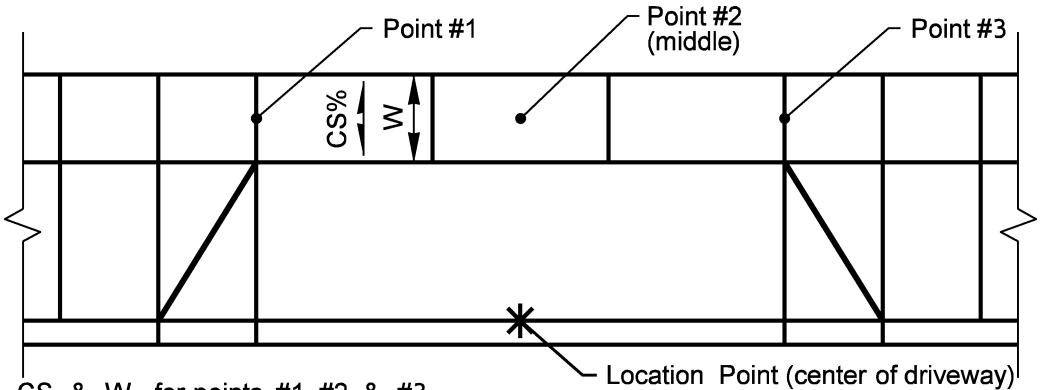
① Measure CS & W for points #1, #2, & #3 of driveway.
② RS shall be taken as shown for points 1 & 3 of no PAR of flare area.
③ On No PAR, project points #1 & #3 from where flare intercepts driveway approach and 3' from back of sidewalk.



RS- Running Slope
CS- Cross Slope
W- Width
PAR- Pedestrian Accessible Route
GB- Grade Break

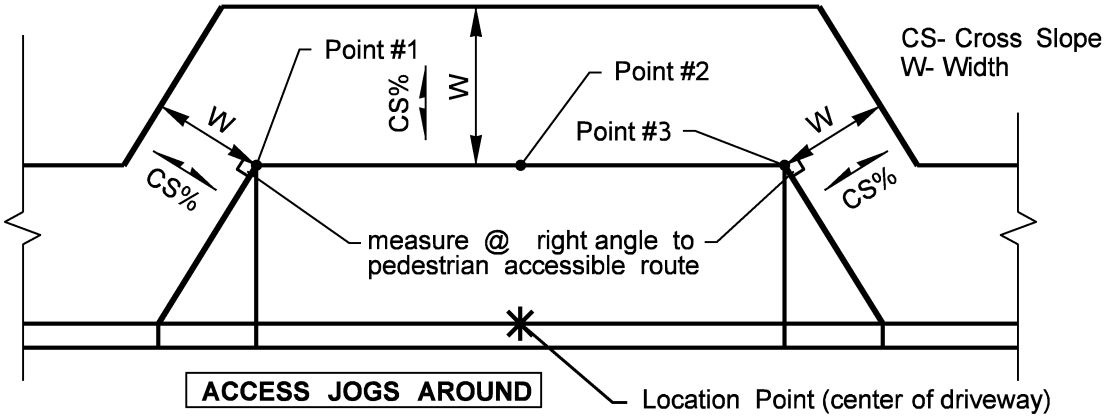
NO PAR

DRIVEWAYS



Notes:
1) Measure CS & W for points #1, #2, & #3.
2) Project points 1 & 3 from where drive flare intercepts driveway approach.

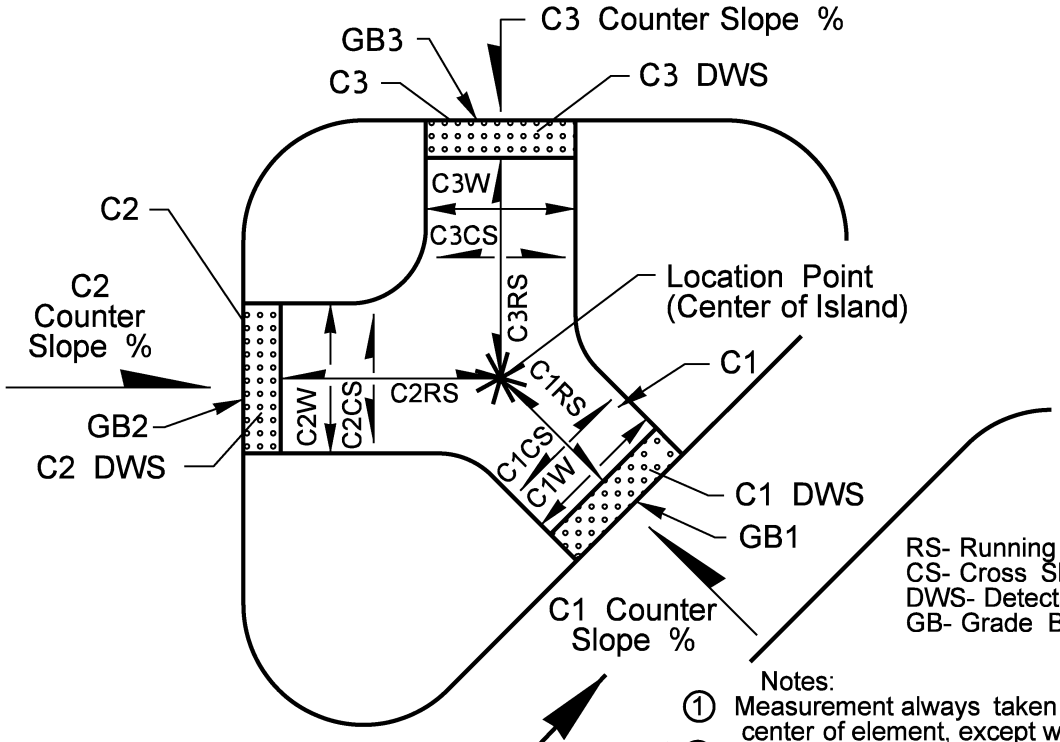
ACCESS ACROSS



CS- Cross Slope
W- Width

ACCESS JOGS AROUND

DRIVEWAYS

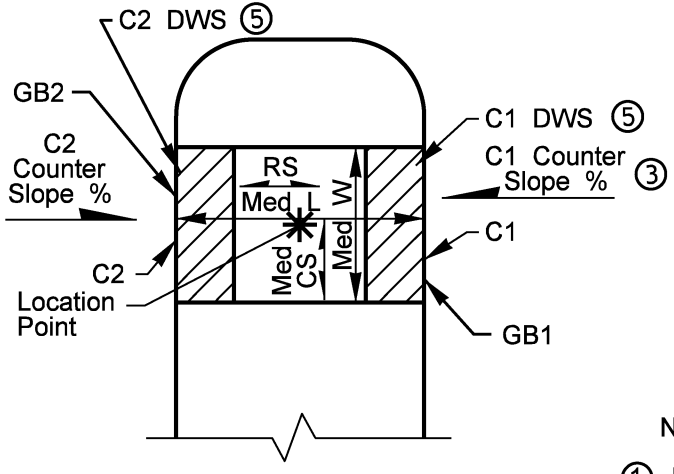


RS- Running Slope
CS- Cross Slope
DWS- Detectable Warning Surface
GB- Grade Break

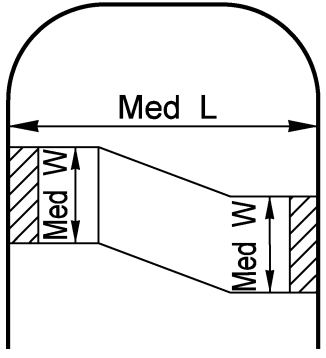
ISLAND PASS THRU

Notes:

1. Measurement always taken in center of element, except where noted.
2. Grade Breaks must be flush the entire width. Take worse case measurement for entire width.
3. Counter Slopes are measured from face of curb to edge of gutter or 2 ft. max. from face of curb when gutter not present.
4. Slope arrow indicates positive read. If both directions shown just record value.
5. See Detectable Warning Surface detail.



If median pass through jogs, the length is measured across median



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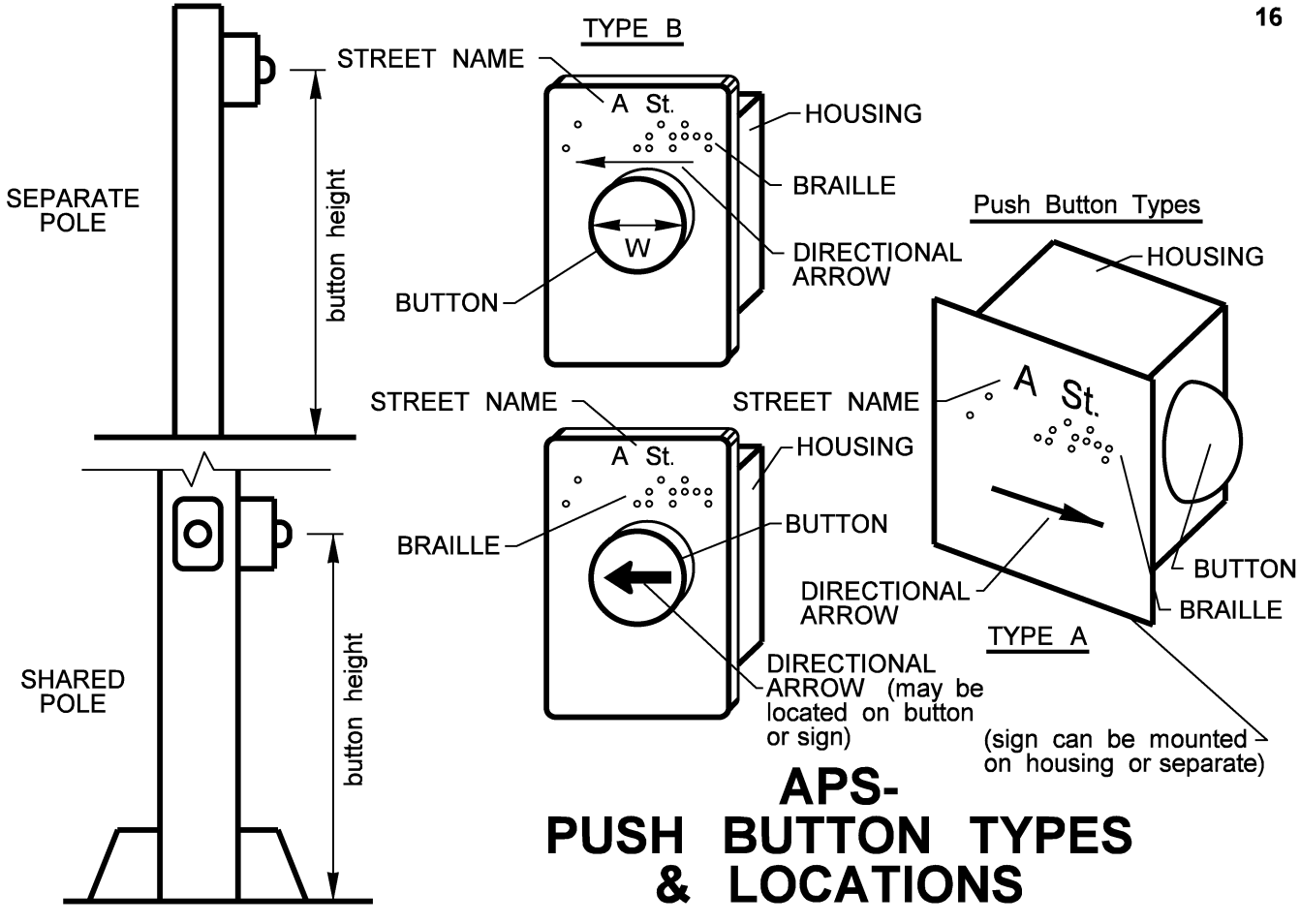
⑤ See Detectable Warning Surface detail.

MEDIAN PASS THRU



APS- PUSH BUTTON TYPES & LOCATIONS

APS Push Button - Type A

APS Push Button - Type B

APS Push Button - Type C

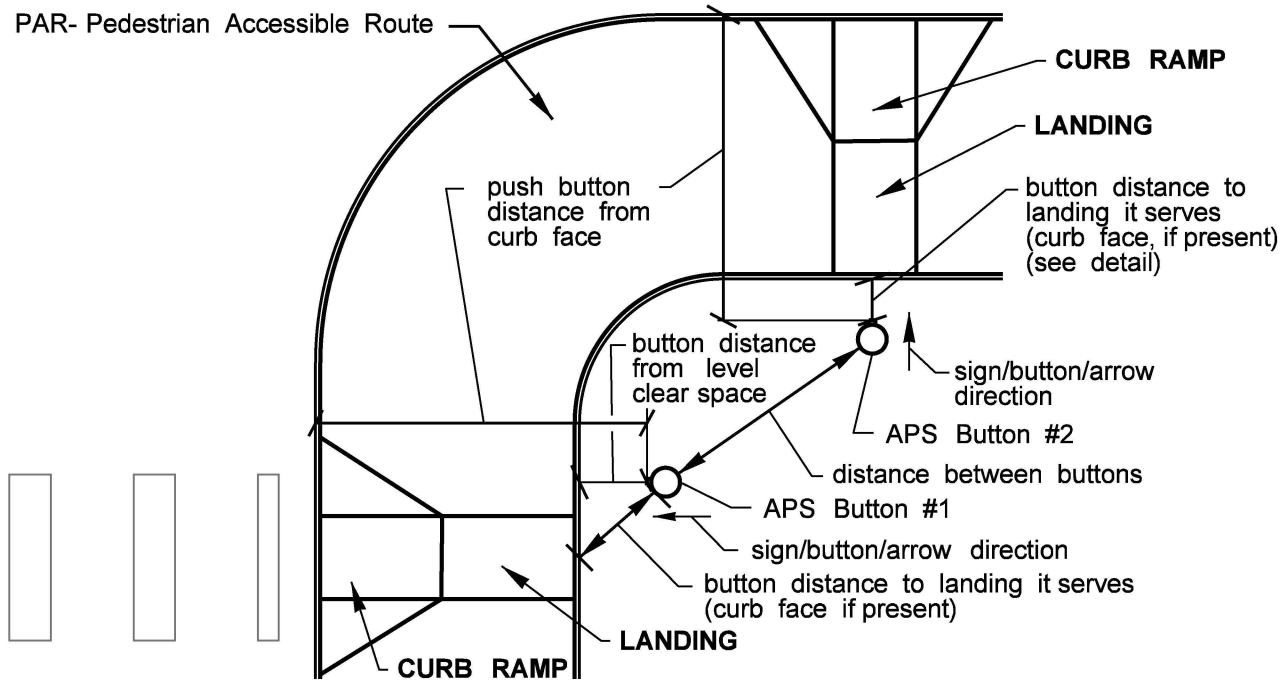
APS Push Button - Type D

APS Push Button - Type E

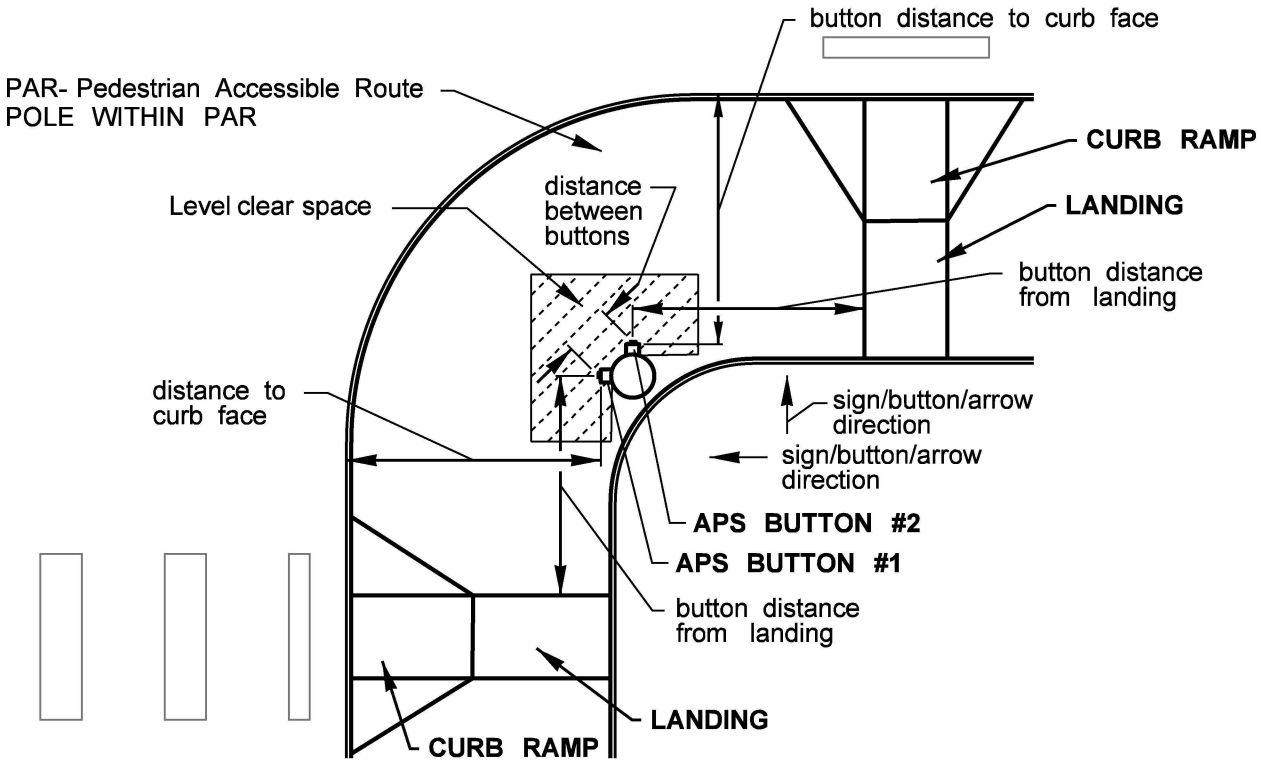
APS Push Button - Type F

Notes:

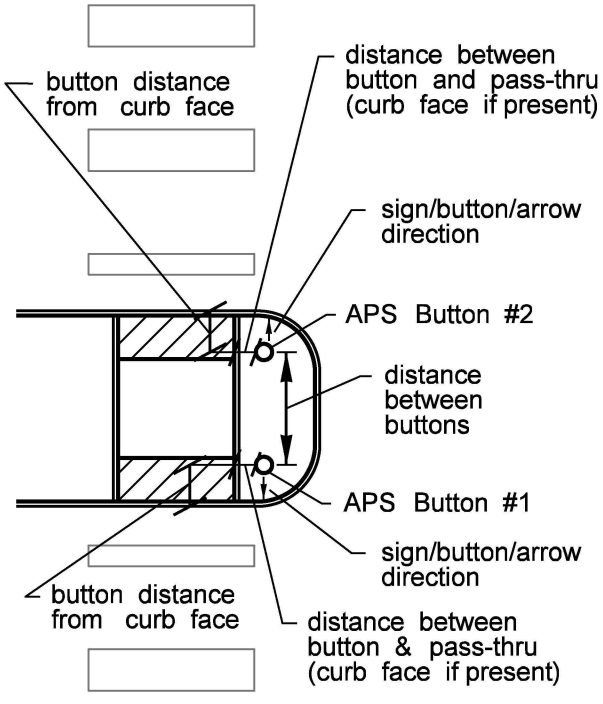
① Distances are measured from the button center.



APS- PUSH BUTTON LOCATION- SEPARATE POLE

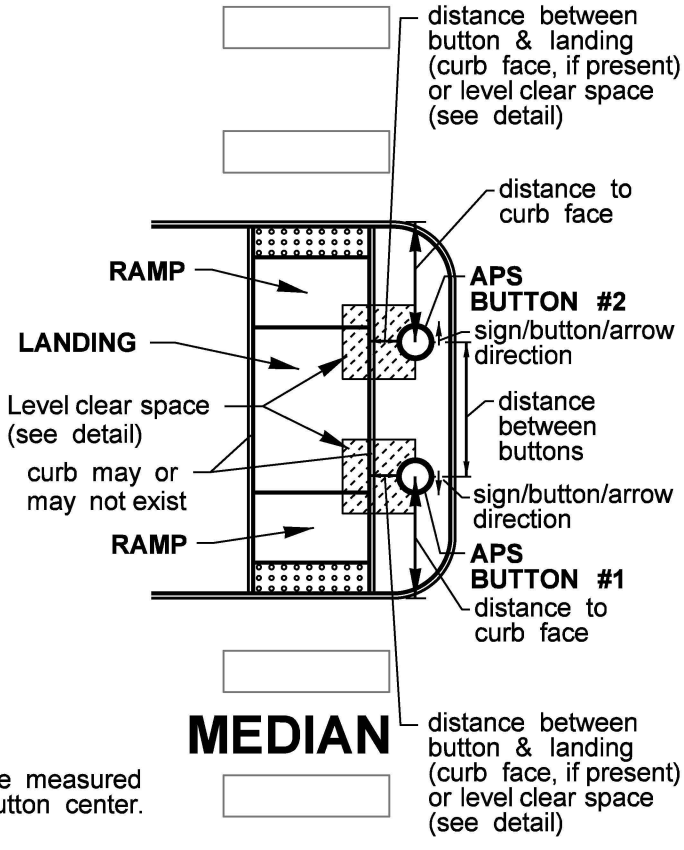


APS- PUSH BUTTON LOCATION- SHARED POLE

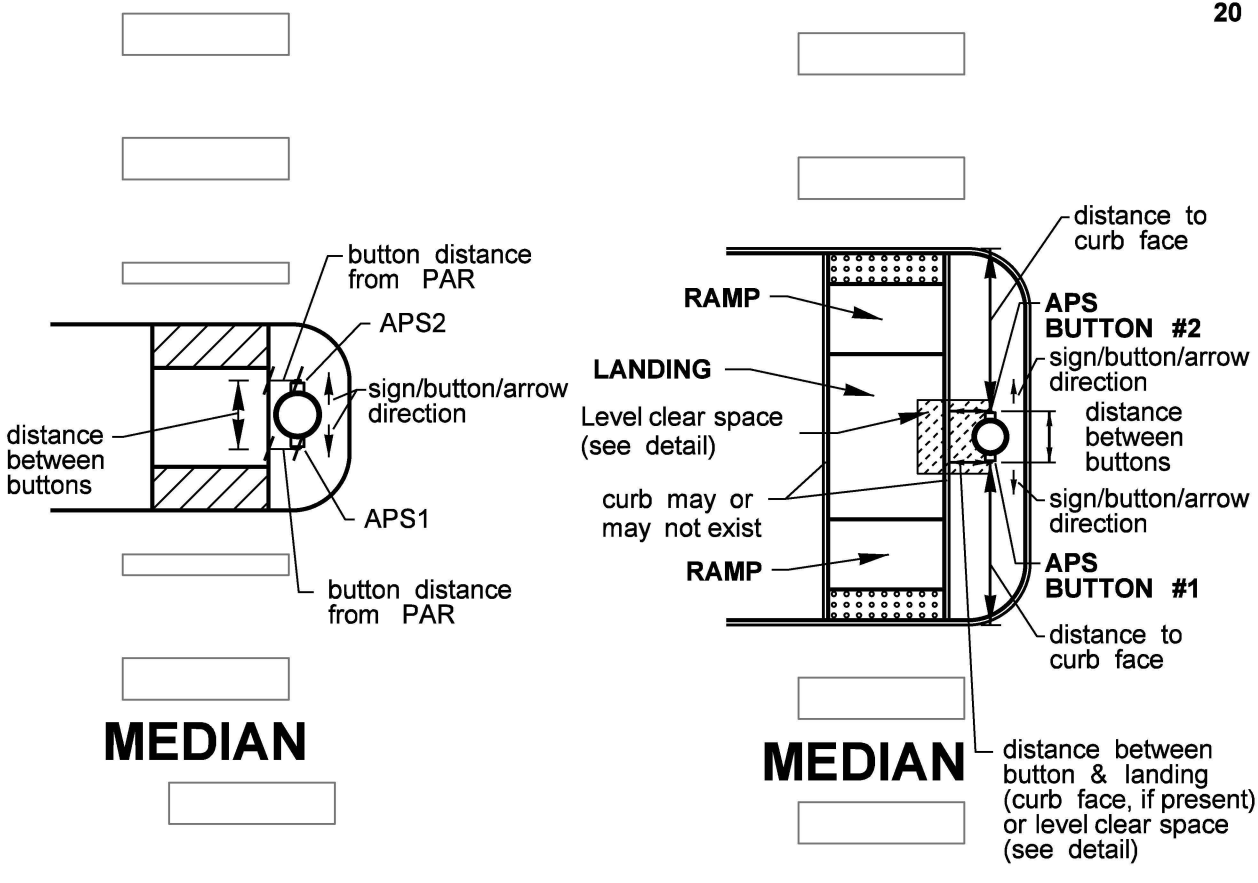


Notes:

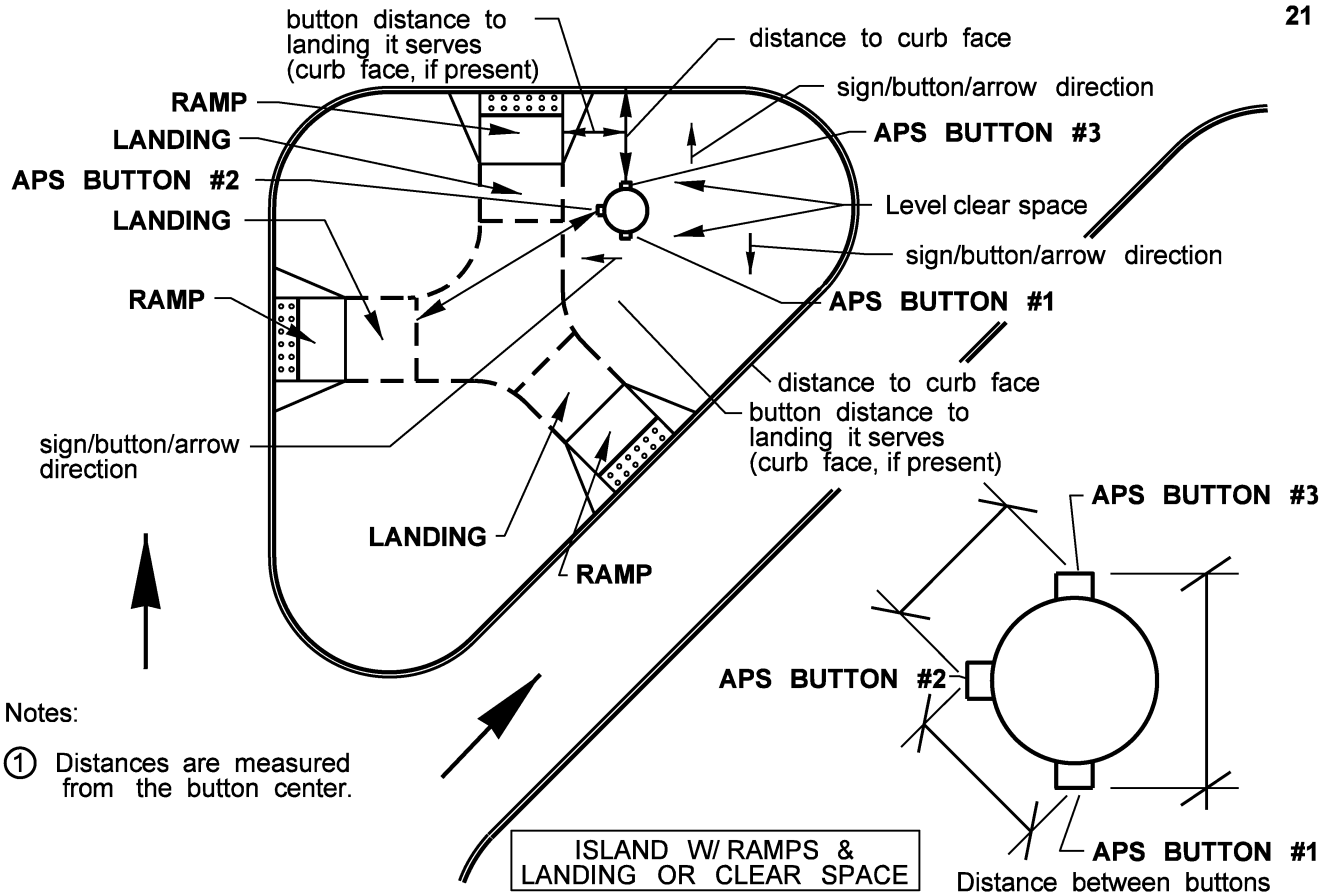
① Distances are measured from the button center.



APS- PUSH BUTTON LOCATION- SEPARATE POLE



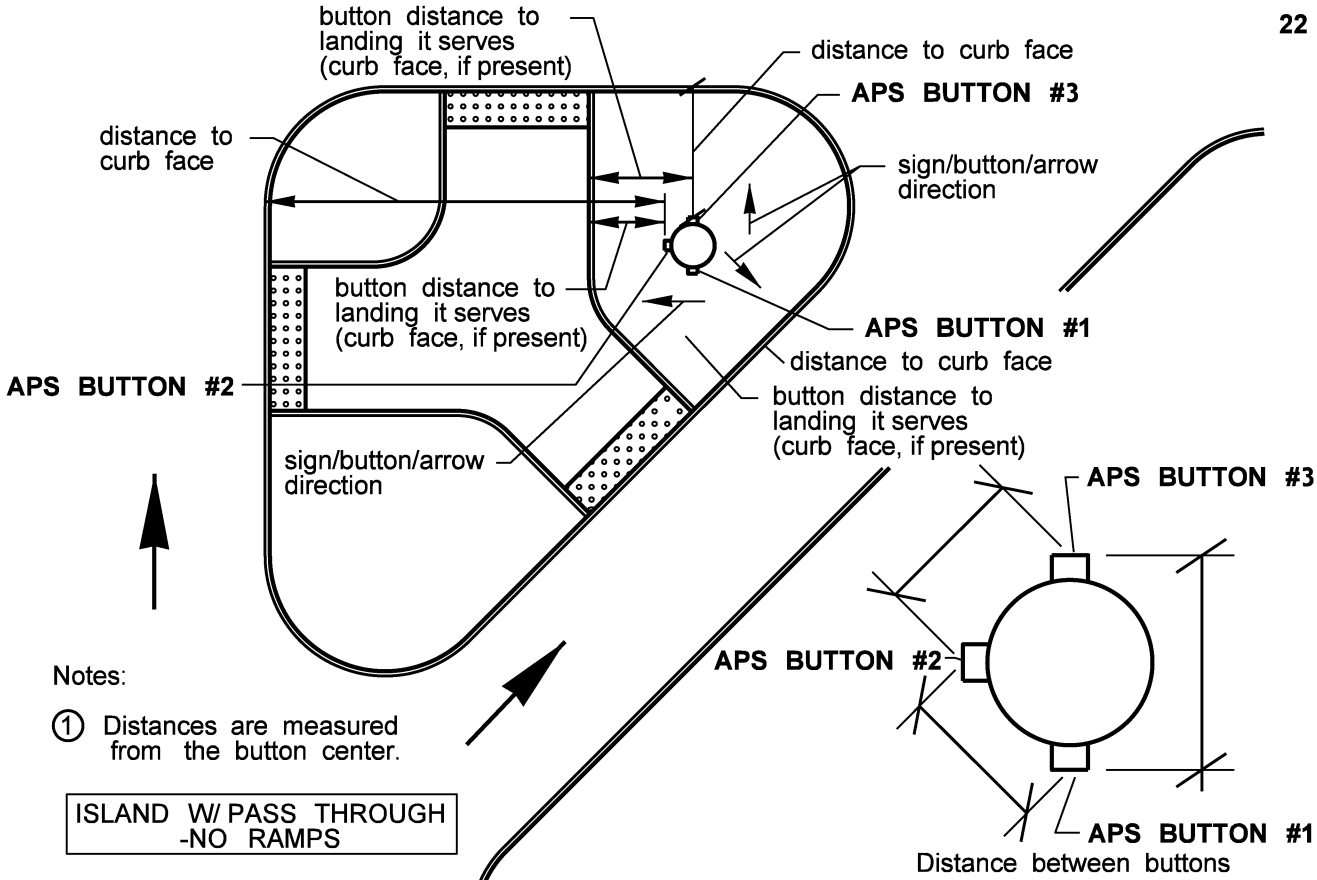
APS- PUSH BUTTON LOCATION- SHARED POLES



Notes:

① Distances are measured from the button center.

APS- BUTTON- SHARED POLE

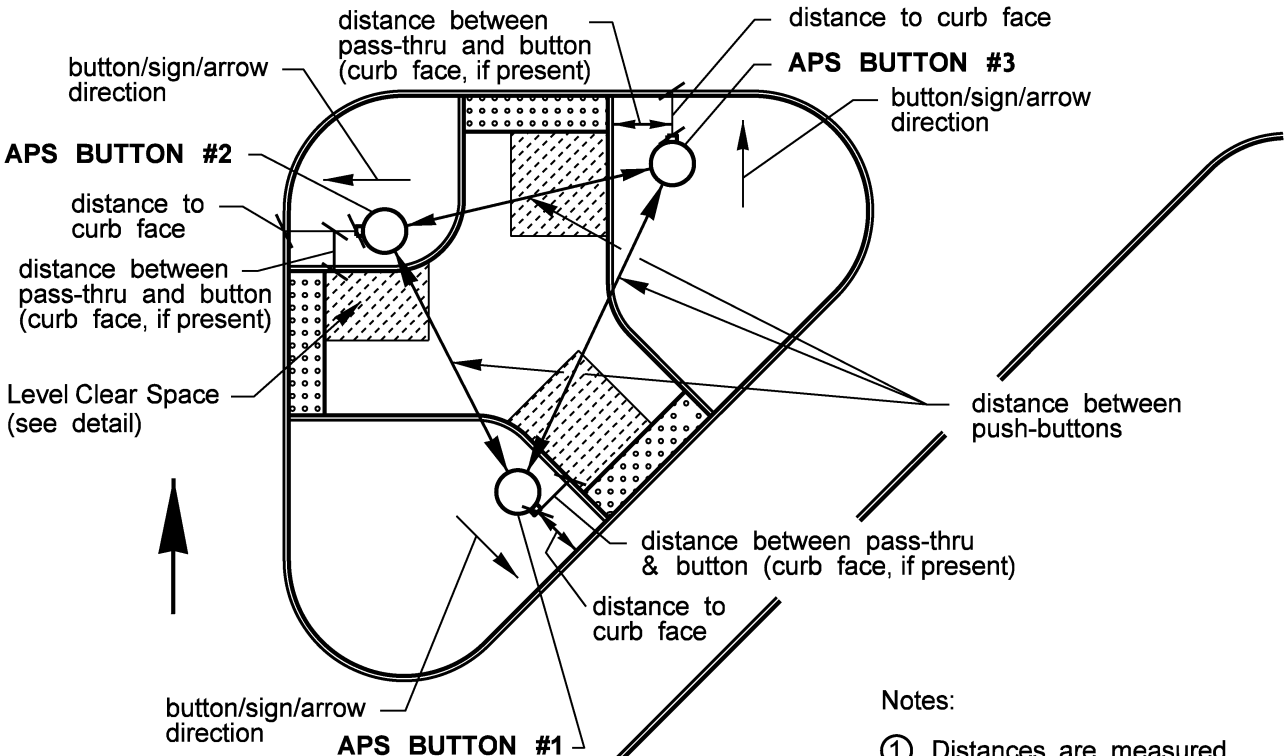


Notes:

① Distances are measured from the button center.

ISLAND W/ PASS THROUGH -NO RAMPS

APS- BUTTON - SHARED POLE

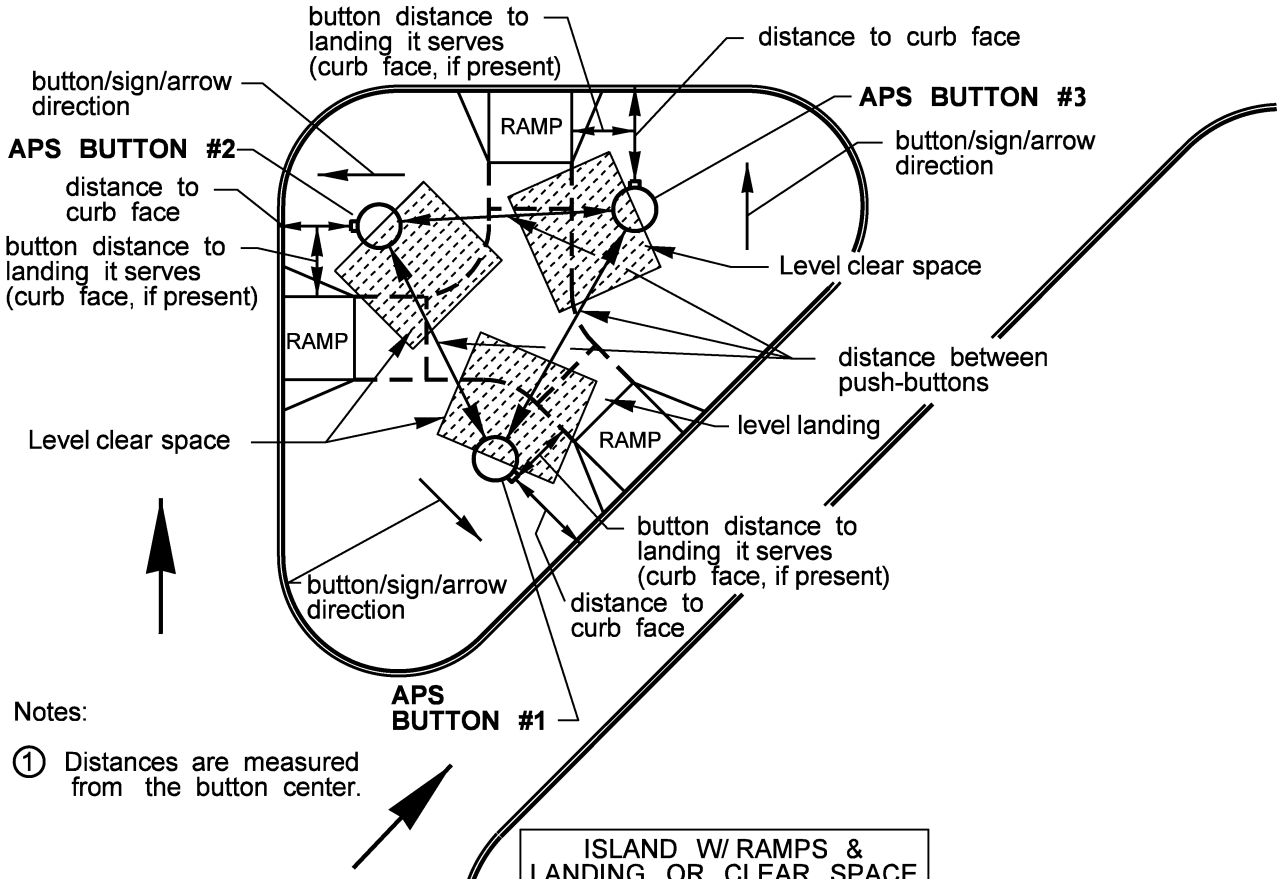


Notes:

① Distances are measured from the button center.

ISLAND W/ PASS THROUGH
-NO RAMPS

APS- BUTTON - SEPARATE POLES



Notes:

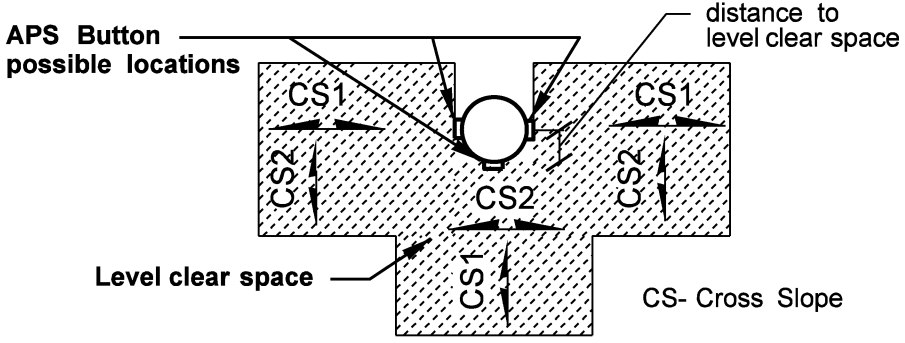
① Distances are measured from the button center.

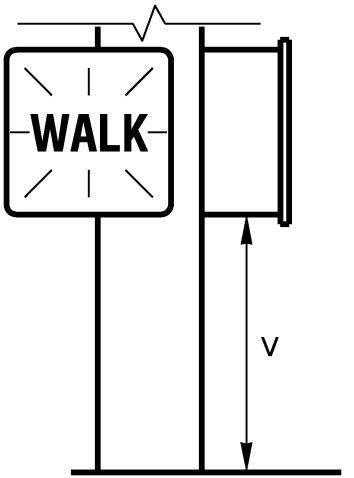
ISLAND W/ RAMPS & LANDING OR CLEAR SPACE

APS- BUTTON- SEPARATE POLES

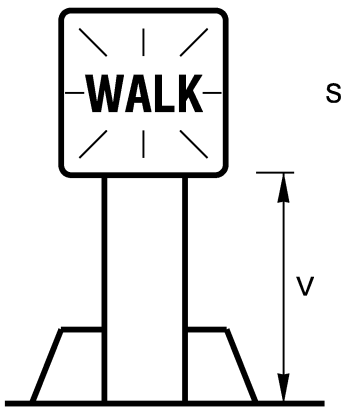
APS Clear Space

① If button is more than 24 inches from the landing edge, measure 2-1/2 ft. x 4 ft. max. level clear space
② Cross slope of the clear space shall be taken 2 feet from button in each direction
③ Slope arrow indicates positive read. If both directions are shown just record value.





SHARED POLE



SEPARATE POLE

WORD

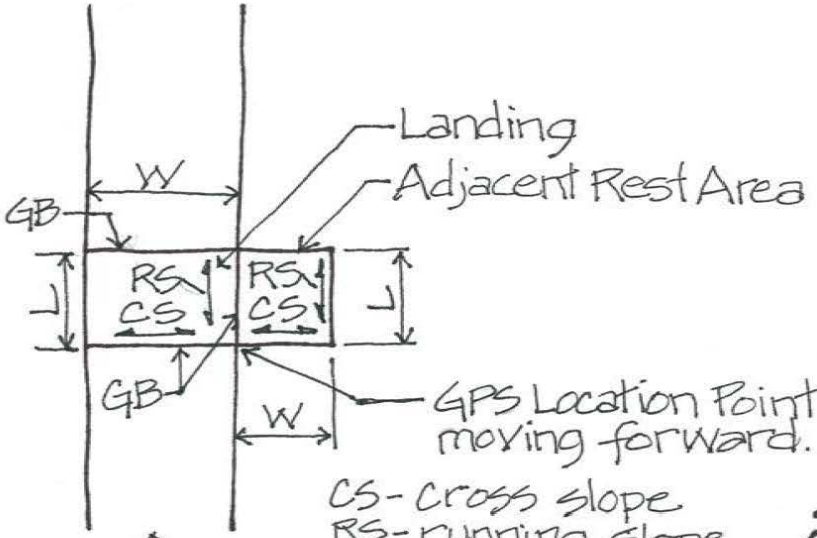
WORD

SYMBOL

SYMBOL

COUNT-DOWN

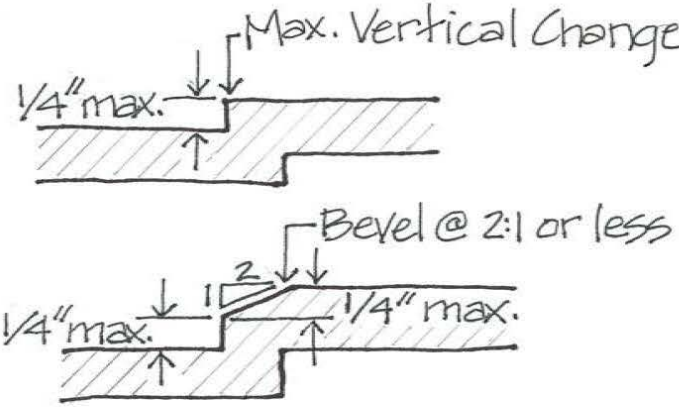
APS-
SIGNAL TYPE & LOCATION



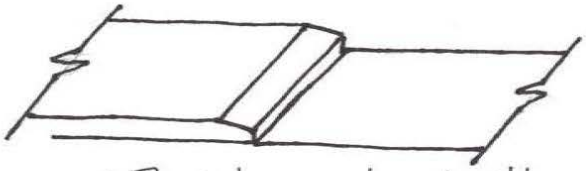
CS - cross slope
RS - running slope
W - width
L - length
GB grade break

ADJACENT REST AREA

for Shared Use Paths.



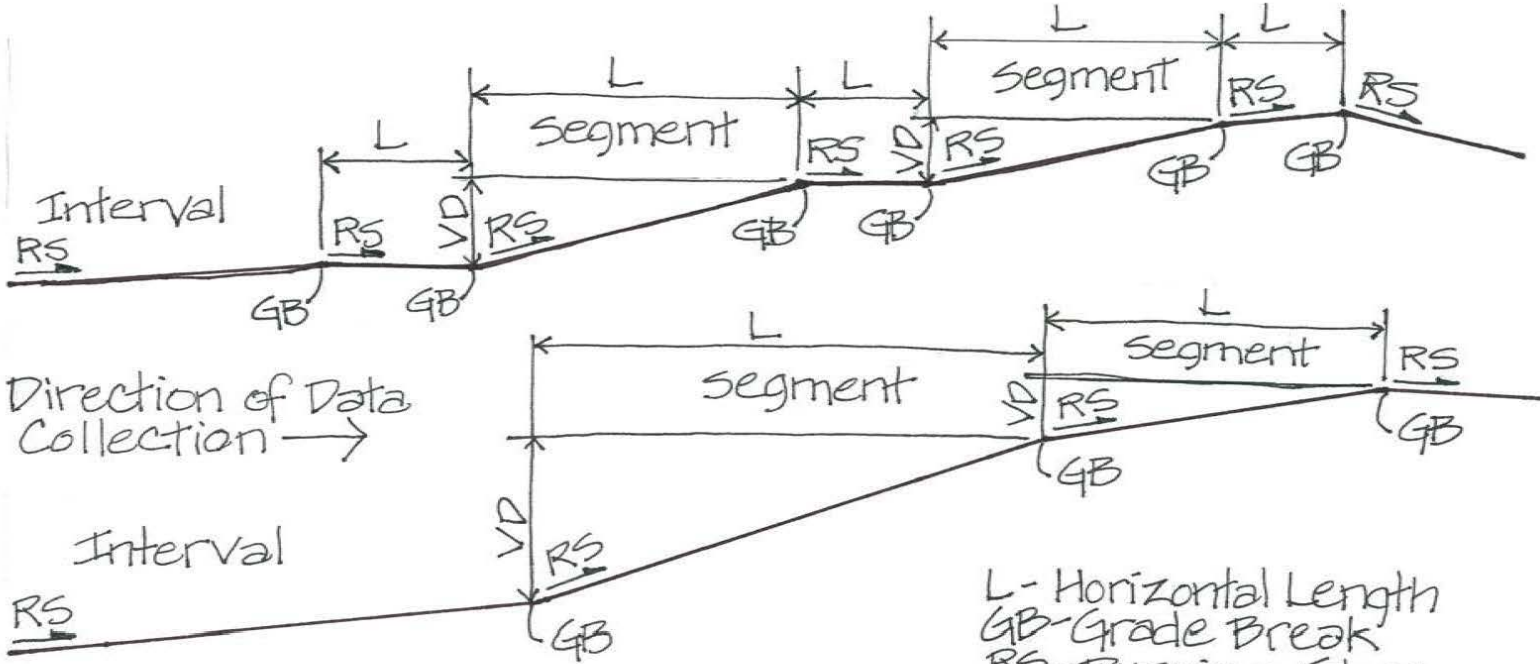
* V measured at worse case above 1/4".



* Bevel can be built out from or ground off slab.

SURFACE DISCONTINUITY

for all Pedestrian Accessible Routes



L - Horizontal Length
GB - Grade Break
RS - Running Slope
VD - Vertical Distance

NOTES:

- If path RS ≤ 5%, measure at 50 foot intervals.
- If path RS > 5%, measure as segments ≤ 25 feet.
- VD is measured only when segment RS > 5%
- Horizontal length is measured level between GB line.
- Measure RS just past GB and in direction of data collection.

SHARED USE PATH

Bike/Pedestrian Paths.

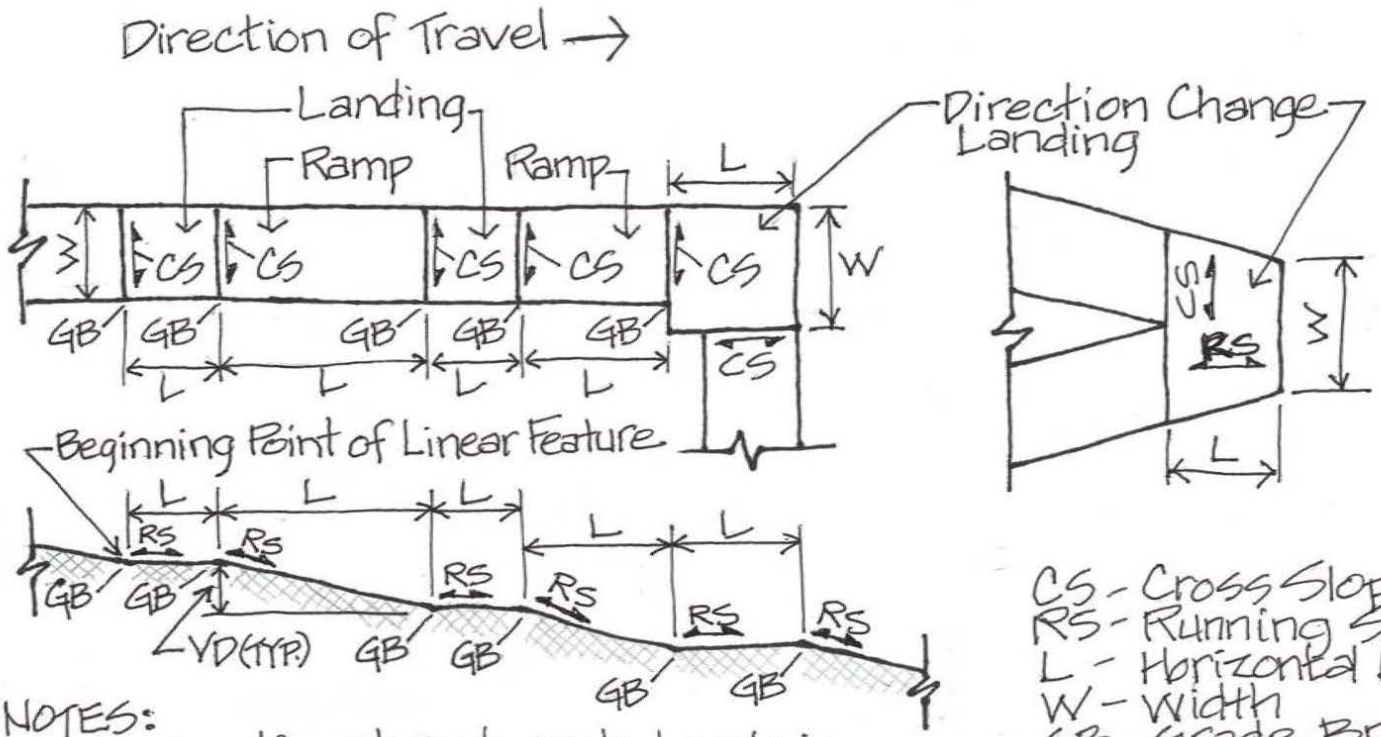
NOTES:

- Intervals do not exceed 5% RS. Measure every 50 feet.
- Segment is where RS > 5%
- At first GB, go back 5' to begin first segment to capture if landing is present
- Segment Landing ≤ 2.0%
- Measure CS & RS just beyond GB.
- Measure VD for segment where RS > 5%
- Measure RS in direction of data collection.

W - Width
L - horizontal length
CS - cross slope
RS - running slope
GB - grade break
VD - vertical distance
P1 - beginning point of segment
P2 - ending point of segment

INDEPENDANT WALKWAY

within sites or where a sidewalk separates to independent horizontal & vertical alignment.



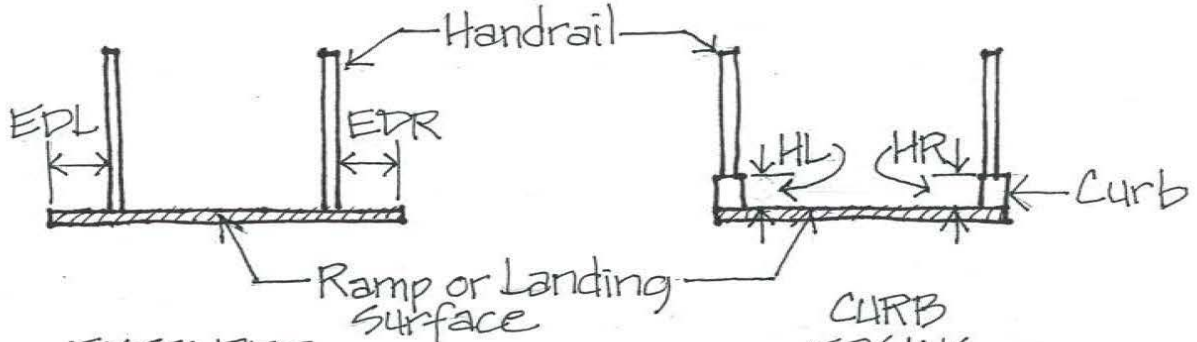
CS - Cross Slope
RS - Running Slope
L - Horizontal Length
W - Width
GB - Grade Break
VD - Vertical Distance

NOTES:

- GPS Location at each grade break in middle of sidewalk.
- Measurements of CS & RS to be taken just beyond the GB.
- VD measured for all ramp runs.
- Ramp is >5% RS.
- GB must be flush the entire width. If not, take greatest vertical measurement along GB line.
- Measure RS in direction of data collection.

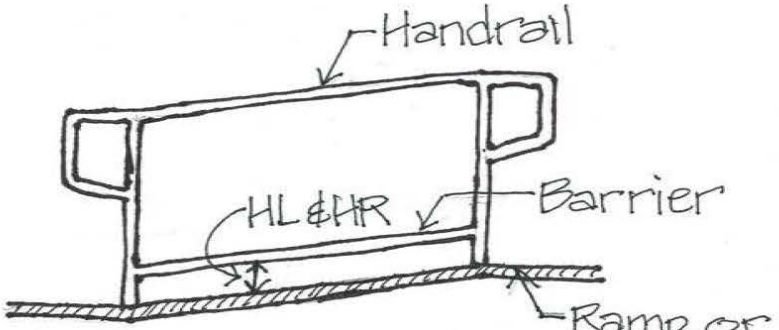
SITE/FACILITY* RAMP

*sites such as Rest Areas, Park & Rides. Also access to ped over/under Crossings.



EXTENDED SURFACE EDGING

CURB EDGING



BARRIER EDGING

HL - Curb or Barrier height from ramp or landing surface, left side.

HR - Curb or Barrier height, right side.

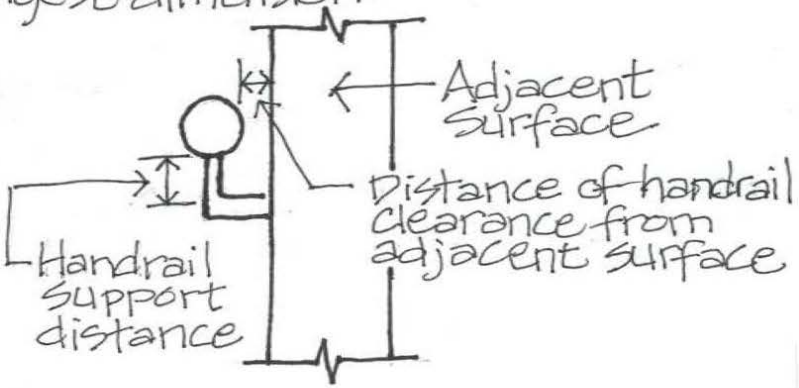
EDL - Extended surface distance from handrail, left side.

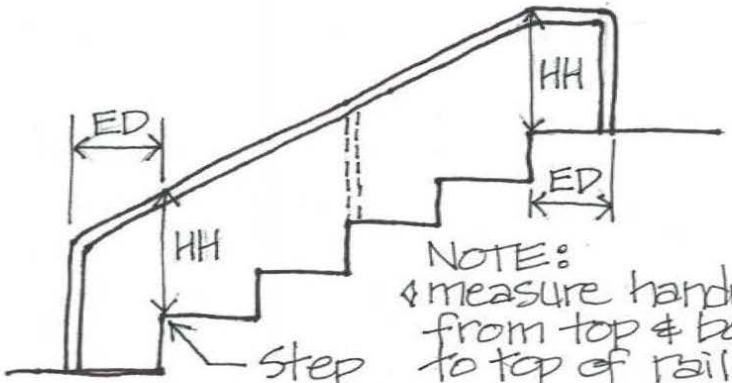
EDR - Extended surface distance from handrail, right side.

EDGE PROTECTION

NOTE:
- Circular - measure diameter
- non-Circular - measure perimeter and longest dimension

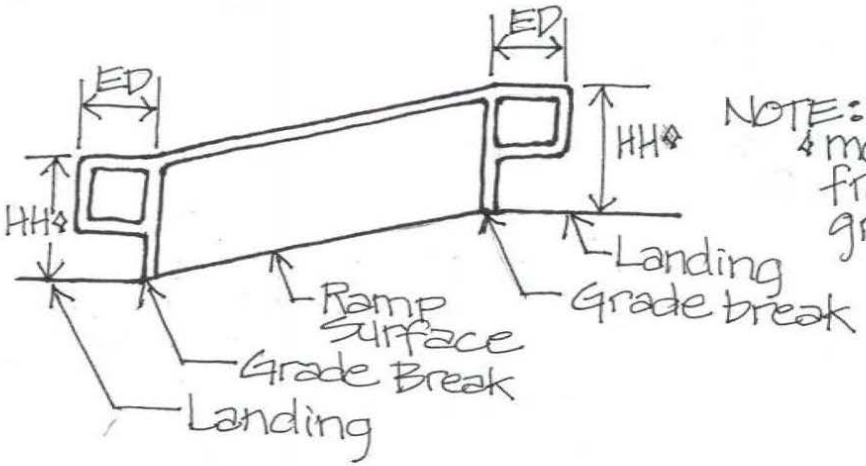
HANDRAIL STYLE





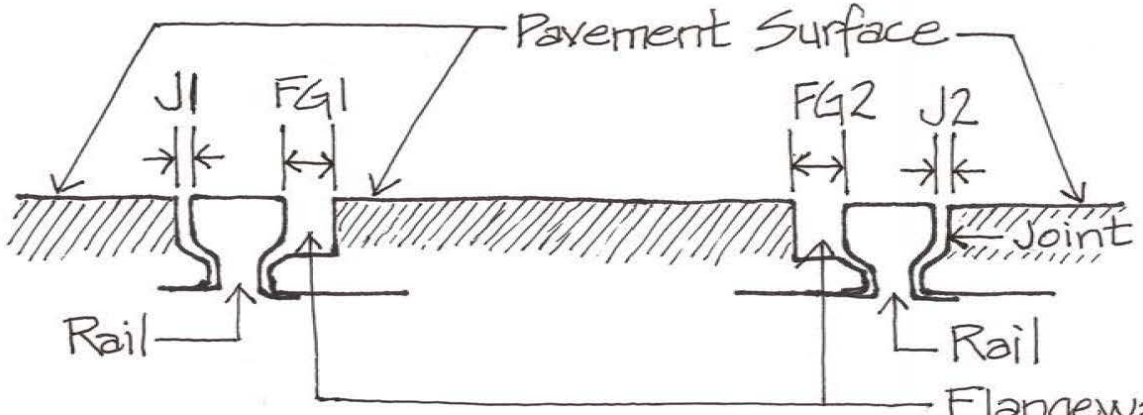
NOTE:
- measure handrail height from top & bottom step nose to top of rail.

HH - Handrail Height
ED - Extension Distance

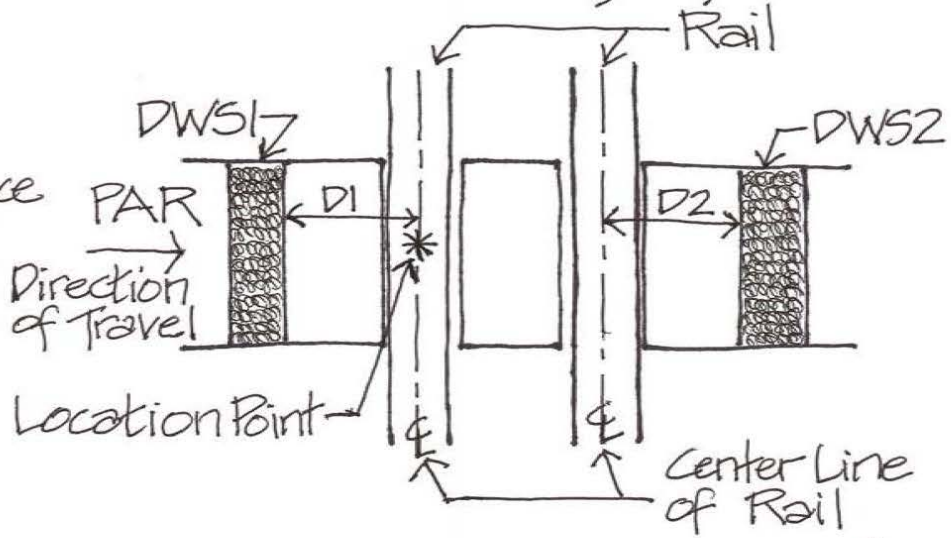


NOTE:
- measure handrail height from top & bottom ramp grade break to top of rail

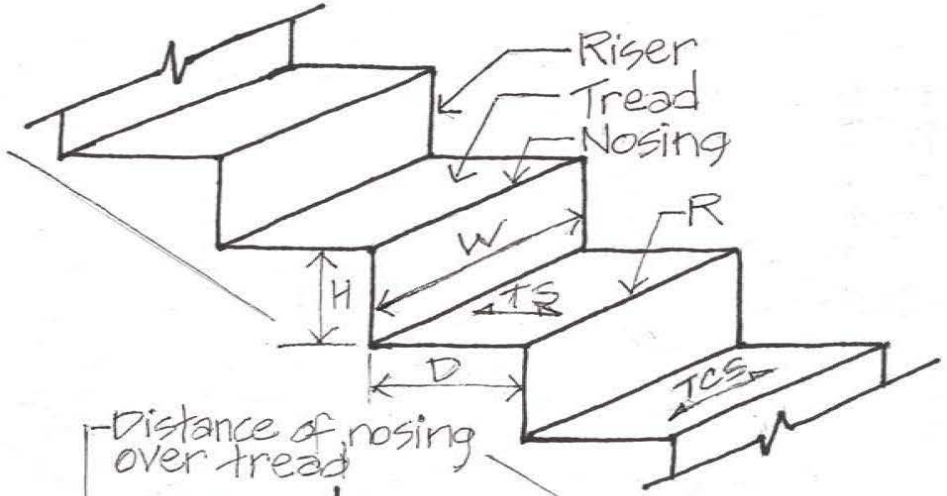
HANDRAILS



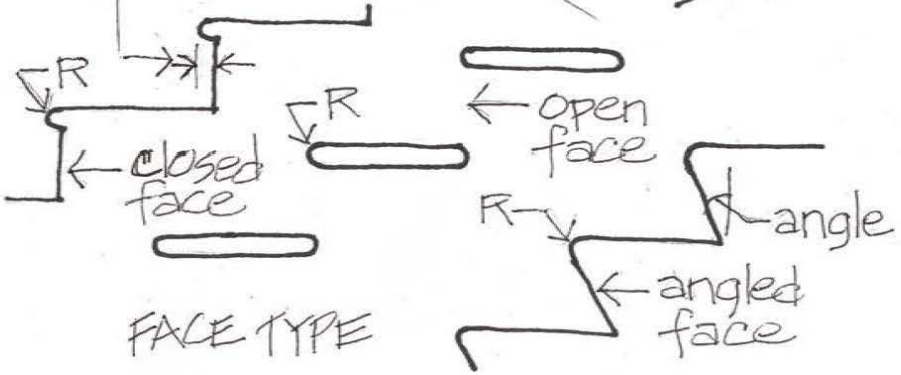
J - Joint
FG - Flangeway Gap
DWS - Detectable Warning Surface
PAR - Pedestrian Accessible Route
D - Distance between DWS and Center of Rail



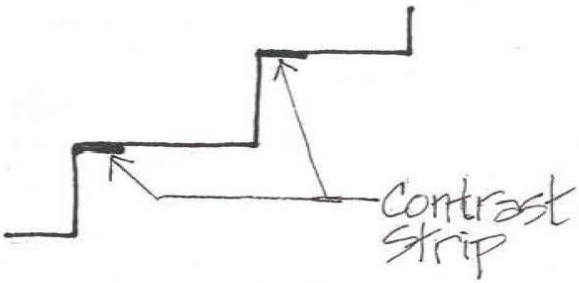
RAIL ROAD CROSSING



H - Riser Height
D - Tread Depth
W - Tread Width
R - Nose Radius
TS - Tread Slope
TCS - Tread Cross Slope



FACE TYPE

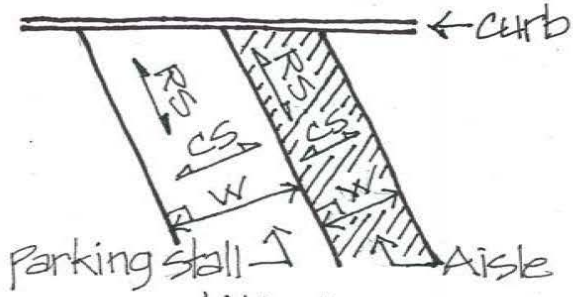


NOTES:

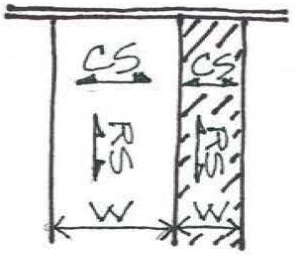
- Take measurements at top and bottom steps.
- If more than 10 steps, take measurements of an additional step in the middle.

STAIRS

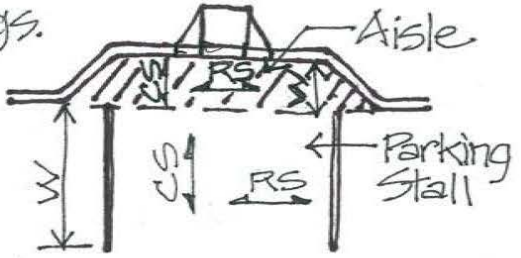
NOTE: ◊ measure W from center of pavement markings.



ANGLE



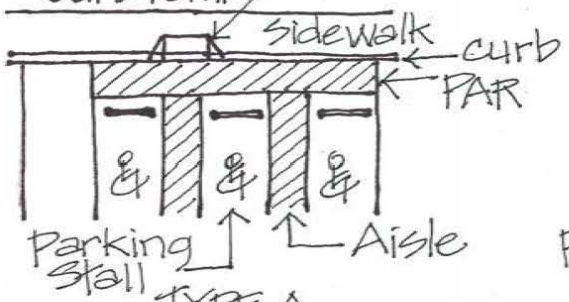
PERPENDICULAR



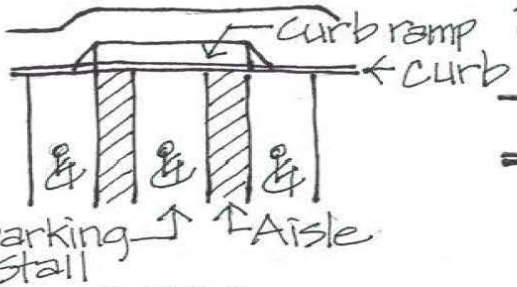
PARALLEL/LOADING ZONE

W - Width
CS - Cross slope
RS - Running slope
PAR - Pedestrian accessible route

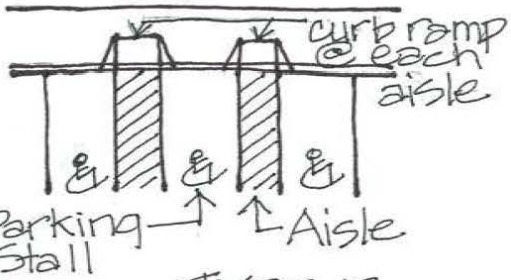
PARKING STALL TYPES



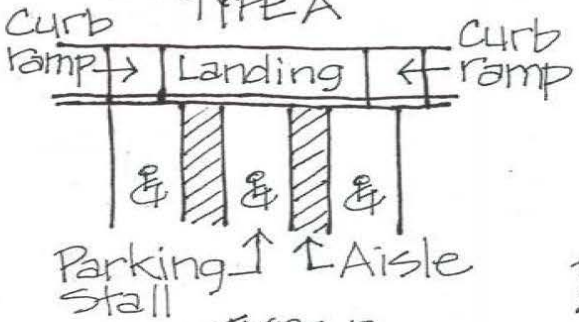
TYPE A



TYPE C



TYPE E



TYPE B

TYPE D

TYPES OF AISLE CONNECTION TO PAR

PARKING STALLS