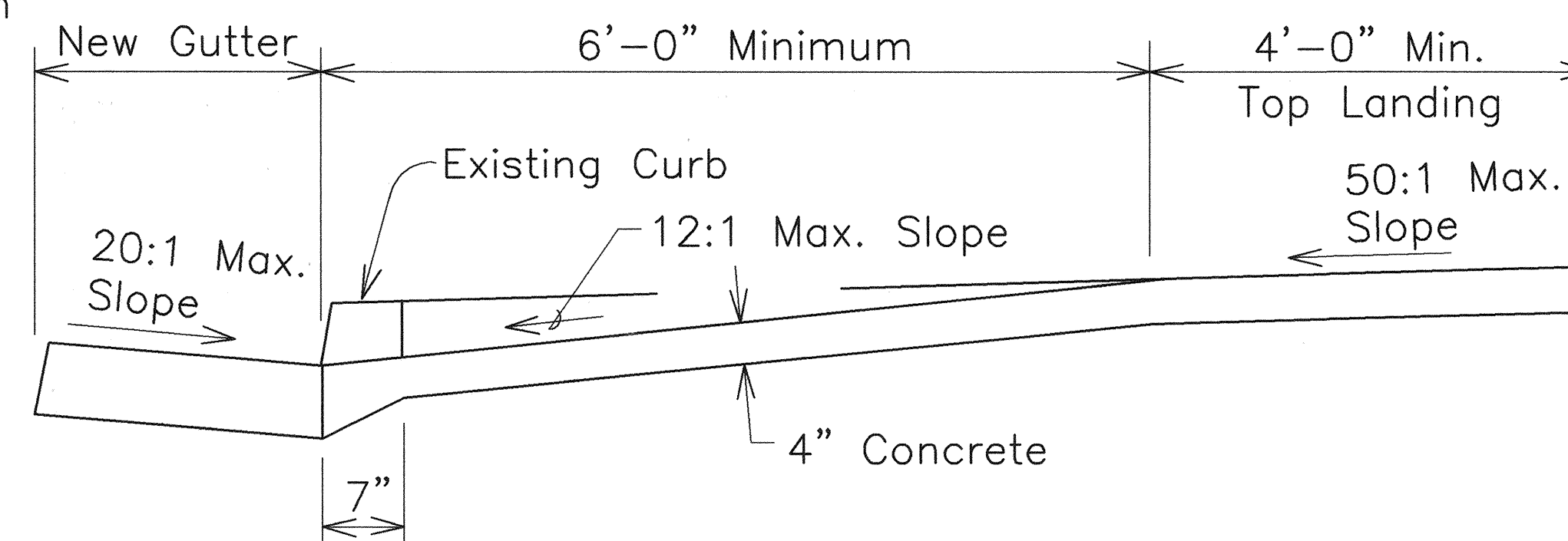
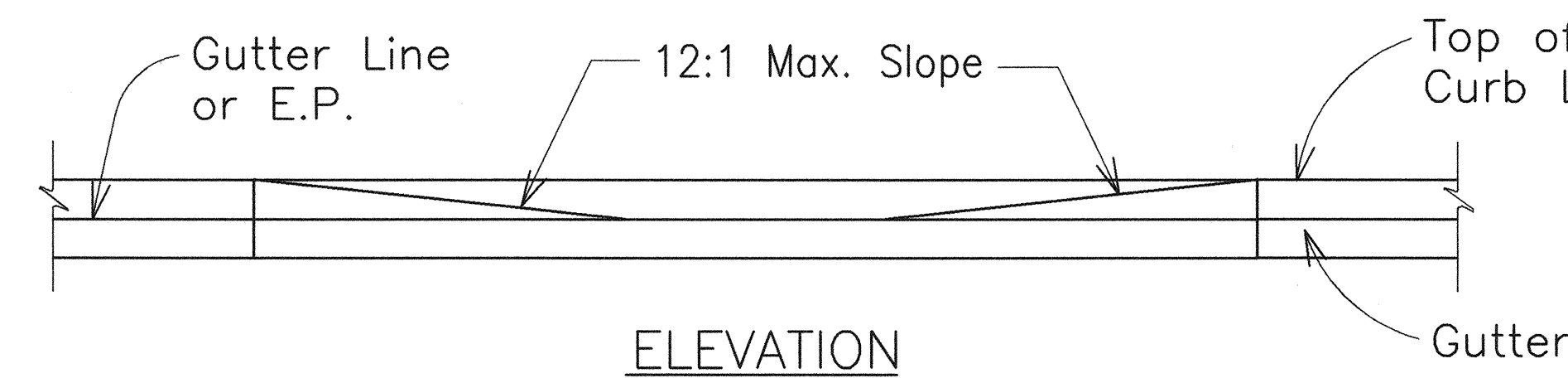
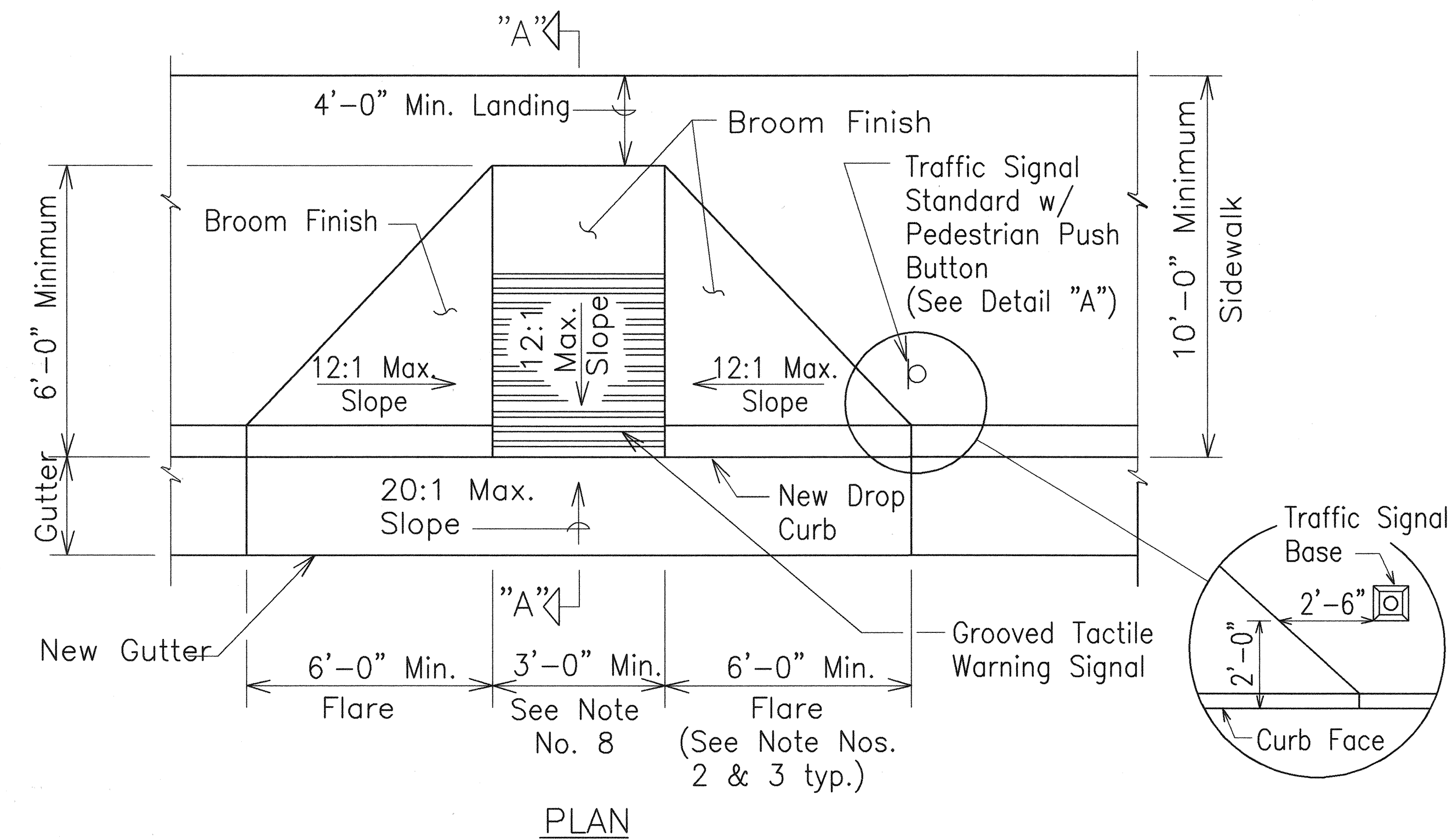
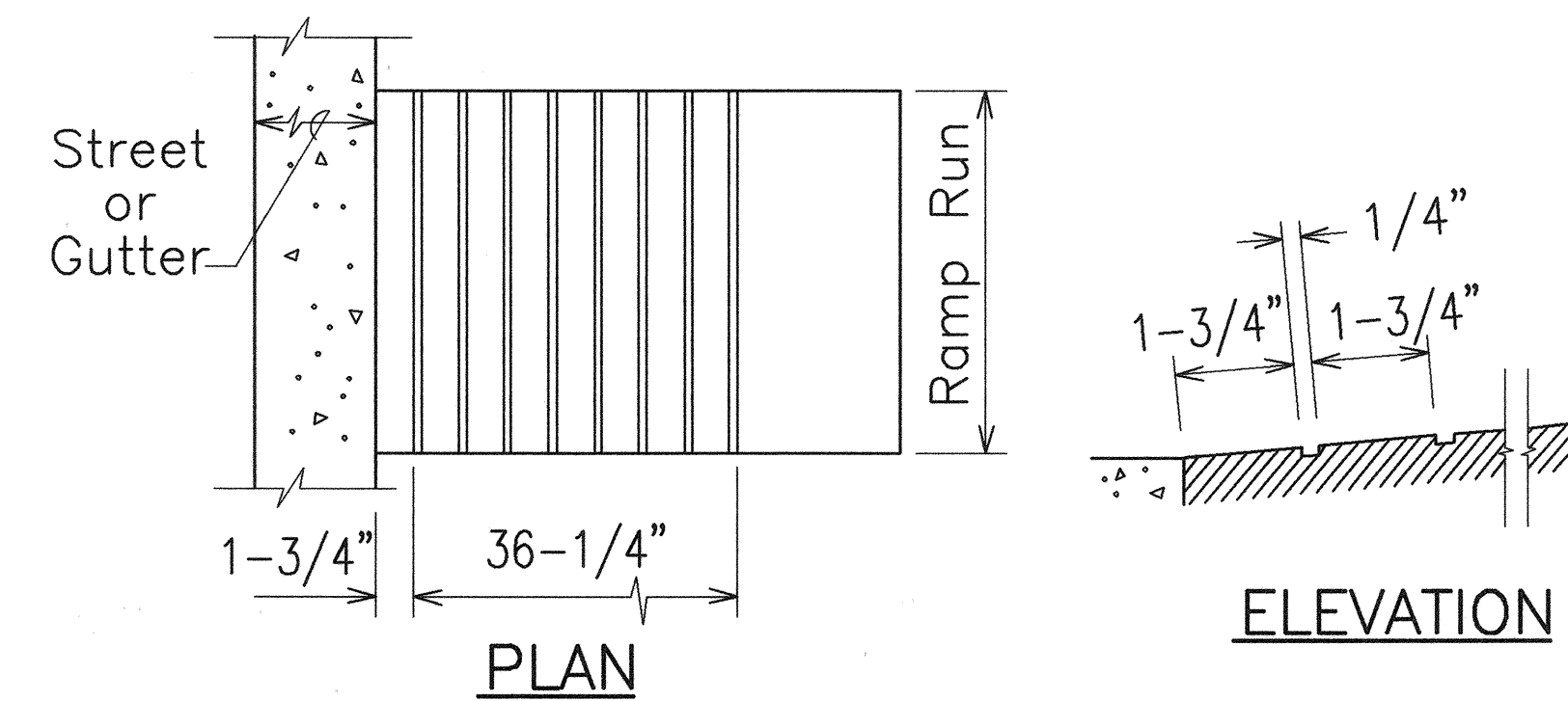


# CURB RAMP NOTES:

1. The New Gutter fronting the curb ramps shall not exceed a slope of 20:1 maximum. Areas without a gutter shall be handled on a case by case basis in order to meet the 20:1 maximum slope requirement.
2. The New Gutter fronting the 6'-0" minimum flares on both sides of the New Curb Ramps shall have a transition slope from 20:1 maximum to the existing gutter slope
3. When the curb exceeds the standard 6" height, the side flares and ramp may be greater than 6'-0" in order to meet the 12:1 maximum slope requirement.
4. Curb Ramps shall be reinforced if adjacent sidewalks are reinforced.
5. The Contractor shall use the Edge of Pavement (E.P.) fronting the new curb ramp or gutter as the control elevation when constructing the New Curb Ramp or Curb Ramp with gutter.
6. For Type "B" & Type "E" Curb Ramps, New Standard Curb shall be 12" wide when installing Type I Traffic Signal Standard (TSS) or Pedestrian Push Button Pedestal (PPB). Where Type II or Type III TSS or Highway Light Pole is utilized, the width of the New Standard Curb shall be determined by the Engineer. For sidewalk less than 4'-0" (excluding curb), an Engineer approved 3'-0" wide minimum curb ramp shall be installed.
7. The width of the curb ramp including curbs shall match the width of the sidewalk. When the sidewalk width is less than 4'-0", an Engineer approved, modified sidewalk with a minimum 3'-0" wide curb ramp excluding curbs shall be installed.
8. The width of the curb ramp run shall be increased to 10'-0" at areas with high pedestrian traffic and as directed by the Engineer or shown on the plans.
9. A minimum 3'-0" wide by 5'-0" long (excluding curbs) flat, stable paved surface with a cross slope of 50:1 or flatter shall be provided for a parallel approach to the pedestrian push button.
10. The pedestrian push button shall meet current American with Disabilities Act (ADA) Accessibility Guidelines and will be subject to Engineer's approval.
11. All Pullboxes shall be installed within the sidewalk/unpaved area or as directed by the Engineer. Pullboxes shall not be installed within the curb ramp (including flares), except in areas where the slope is 50:1 or greater and not affecting the tactile warning lines.
12. Nowhere shall the cross slope of an accessible route (along sidewalks and throughout curbamps) exceed 2%.

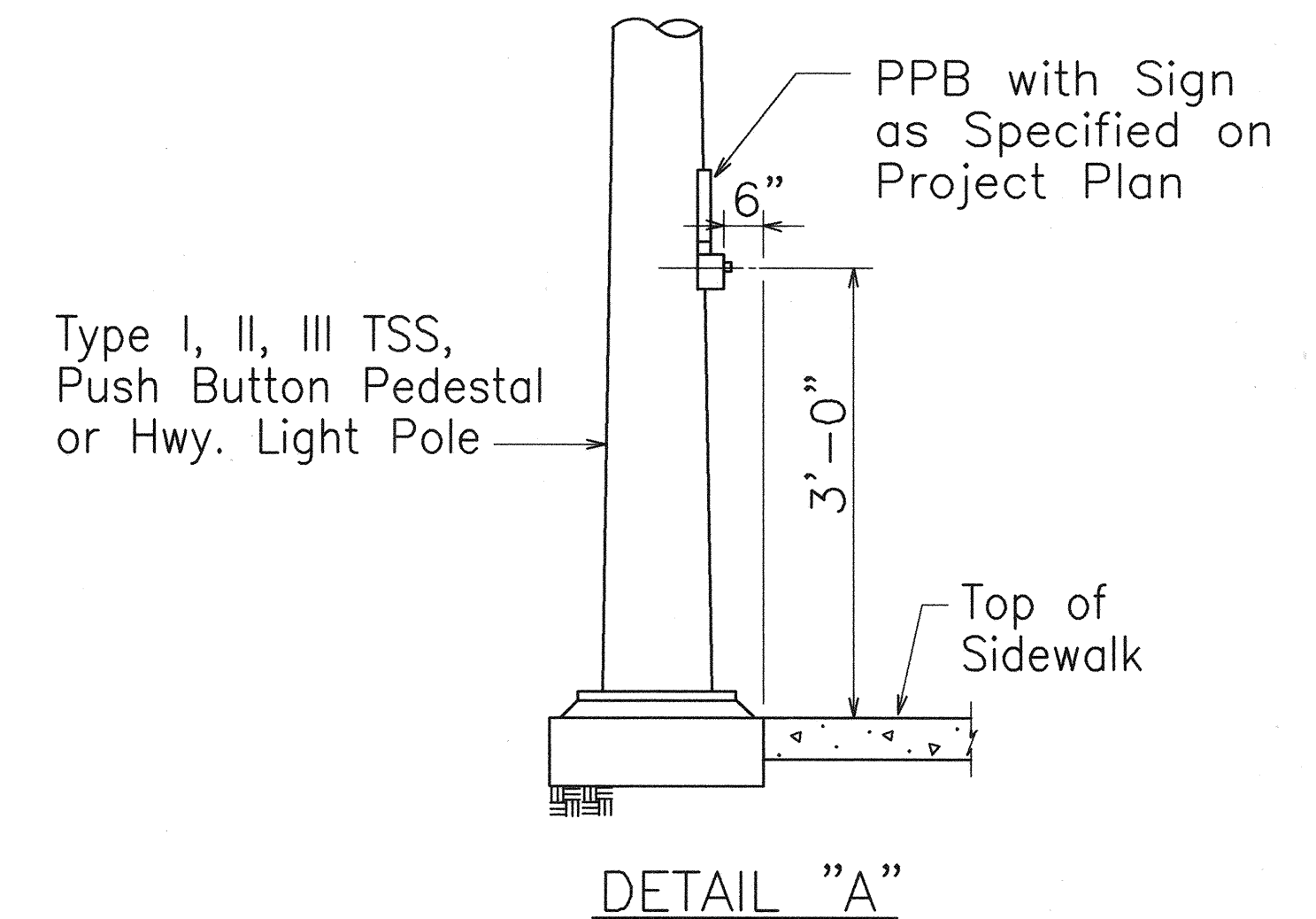


## CURB RAMP - TYPE "A" SIDEWALK WIDTH 10'-0" OR GREATER



## GROOVED TACTILE WARNING SIGNAL

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-032-1(6)	2000	17	53



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

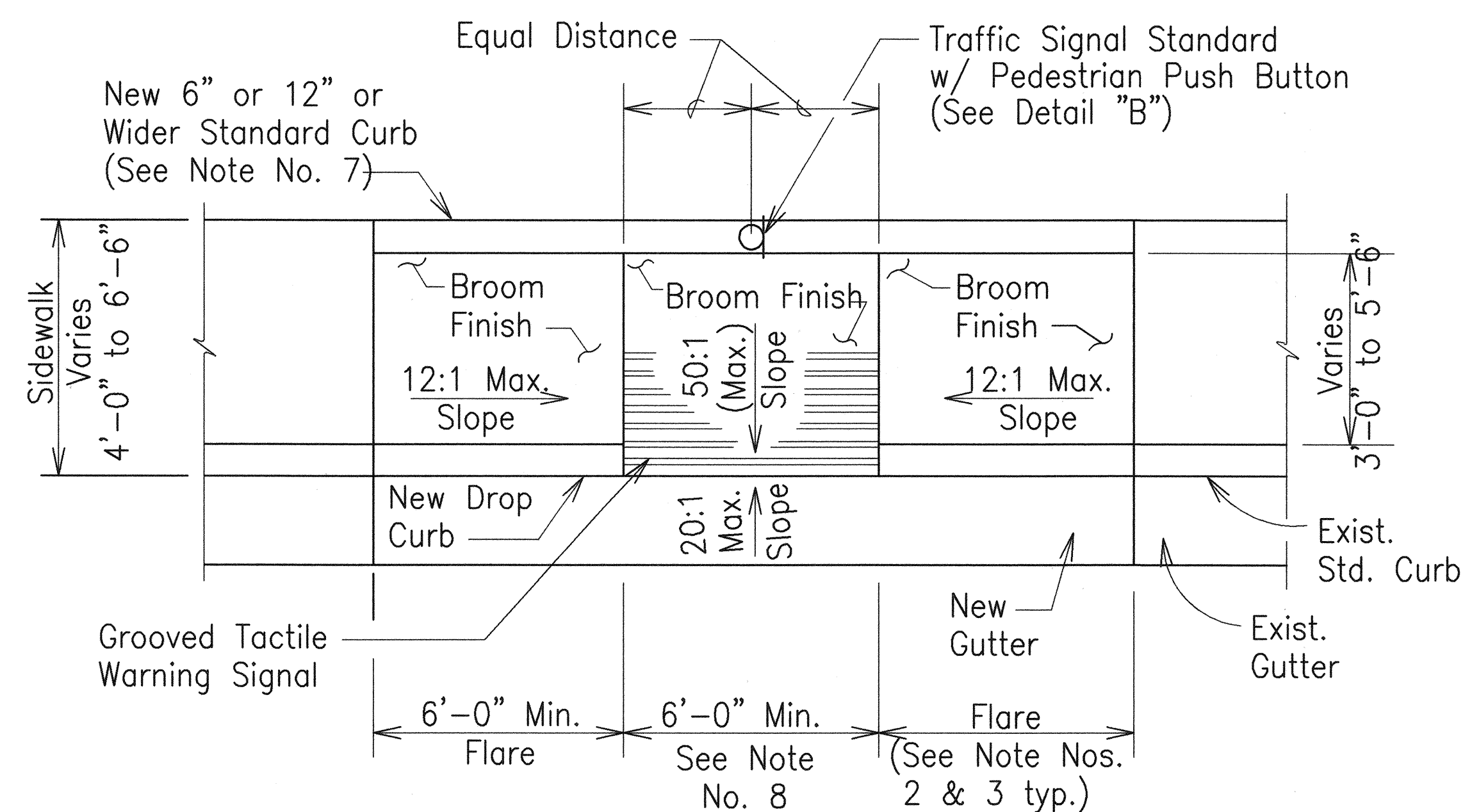
**CURB RAMP DETAIL**

KAAHUMANU AVENUE  
TRAFFIC SIGNAL MODERNIZATION  
HIGH STREET TO WHARF STREET  
FEDERAL AID PROJECT NO. NH-STP-032-1(6)

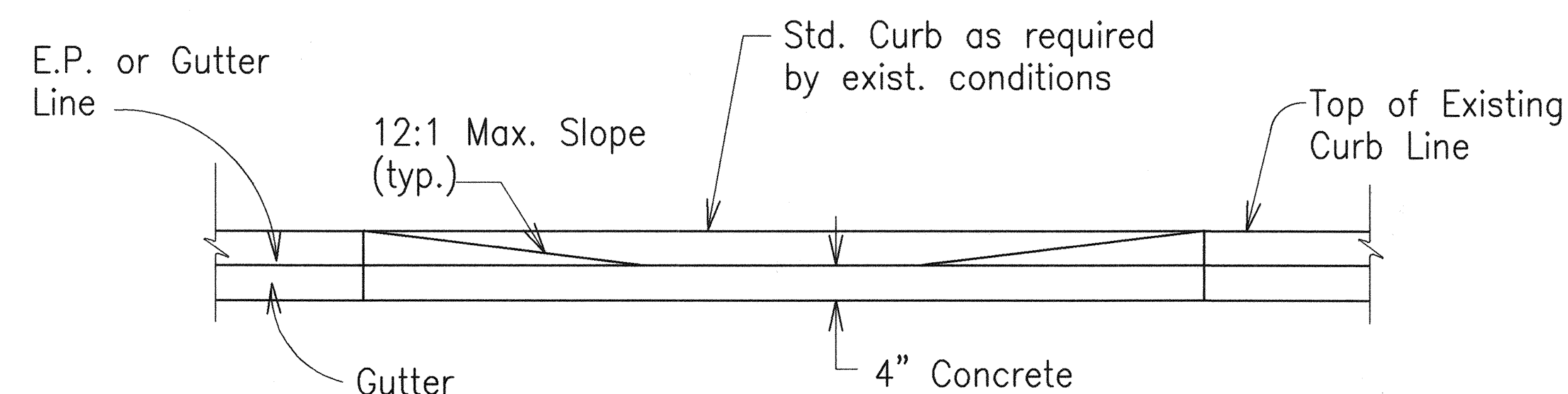
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SHEET No. 1 OF 3 SHEETS

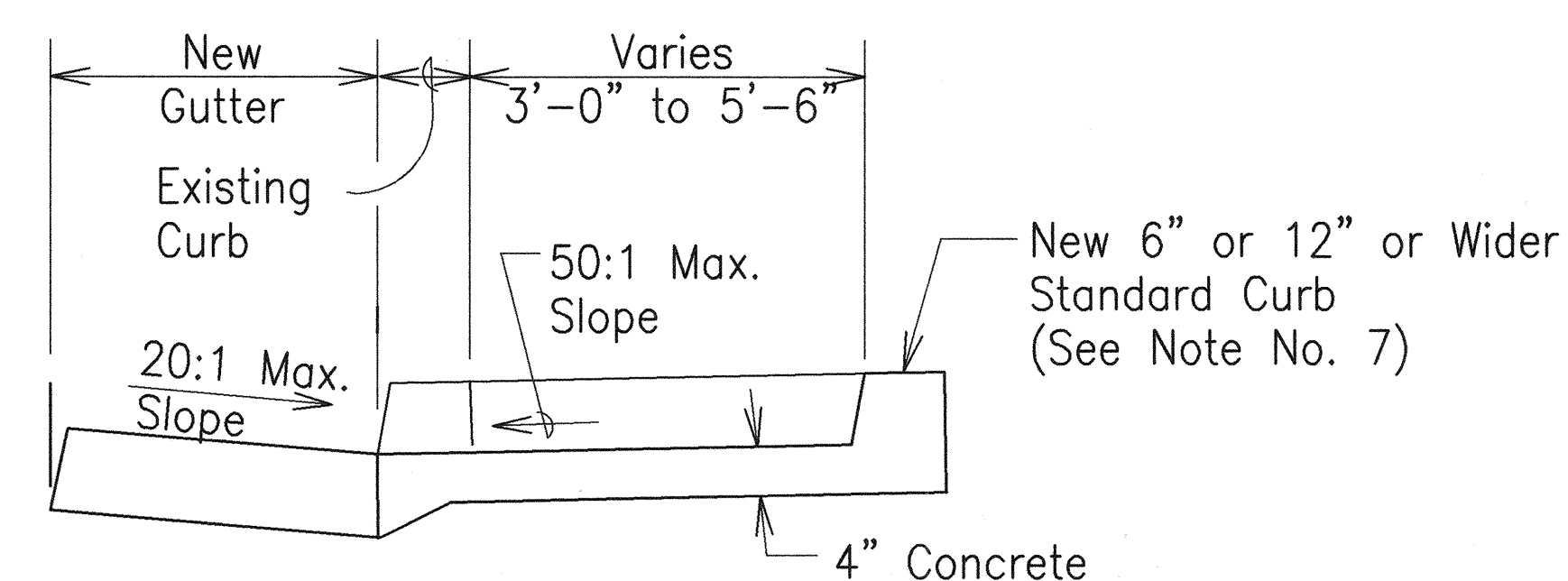
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HAWAII	HAW.	NH-STP-032-1(6)	2000	18	53



PLAN

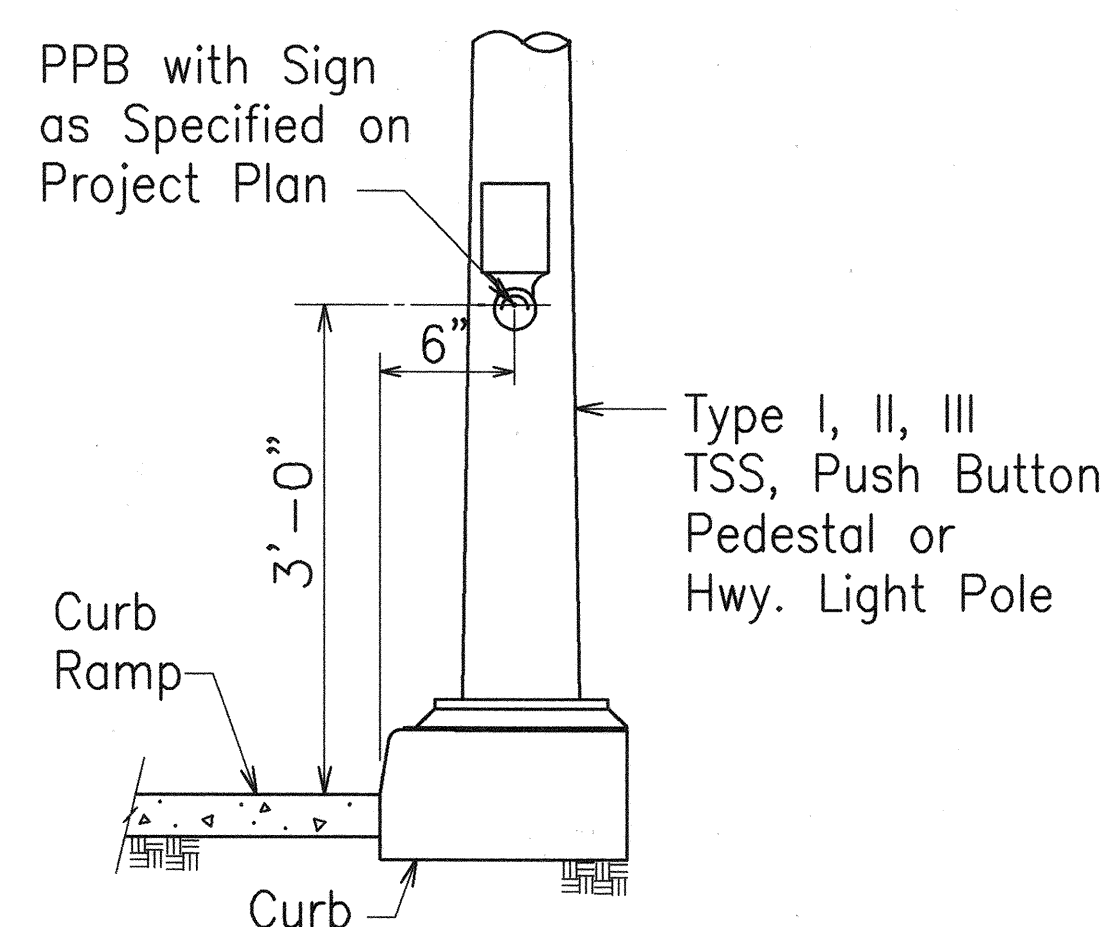


ELEVATION

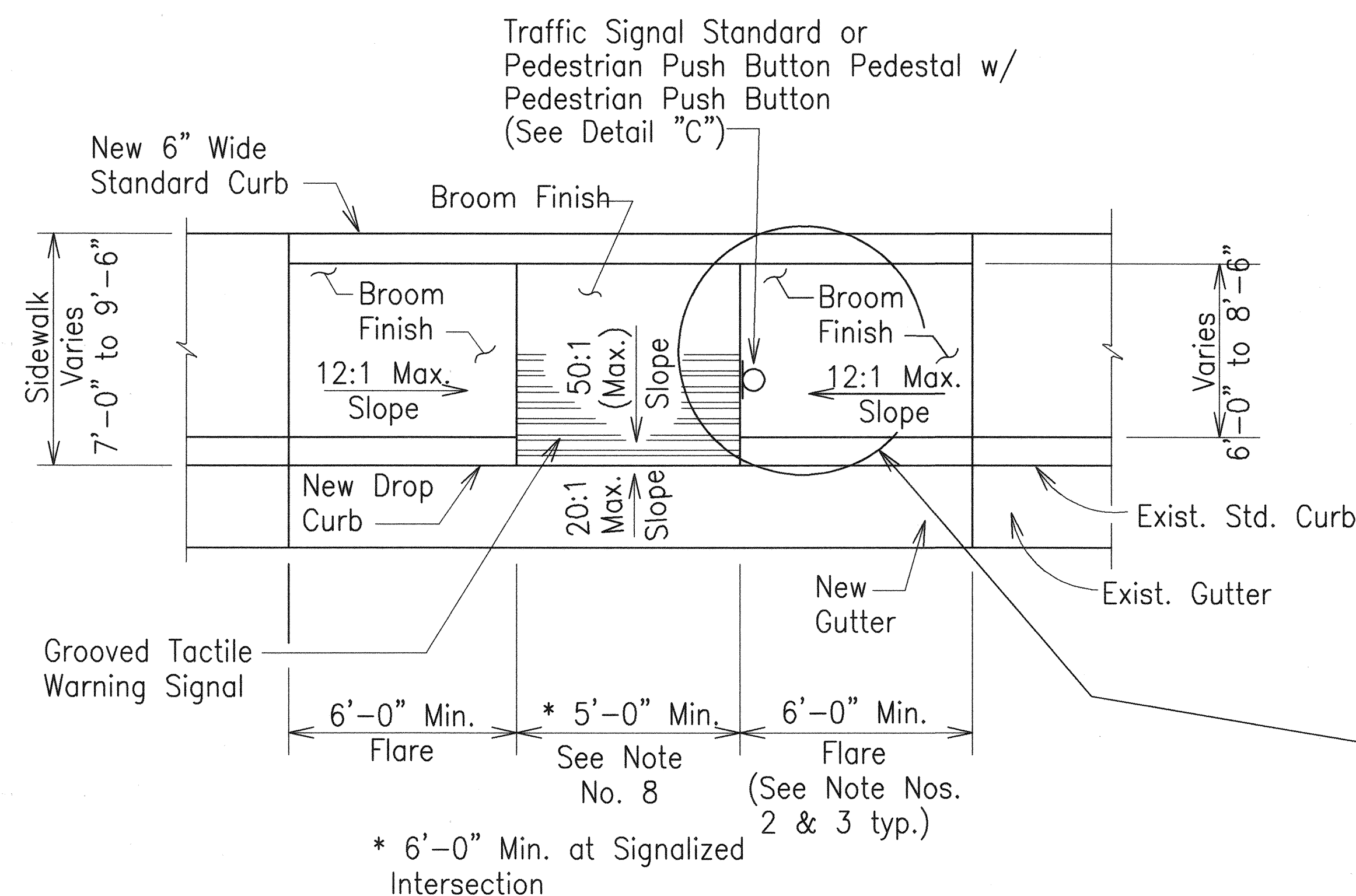


TYPICAL SECTION

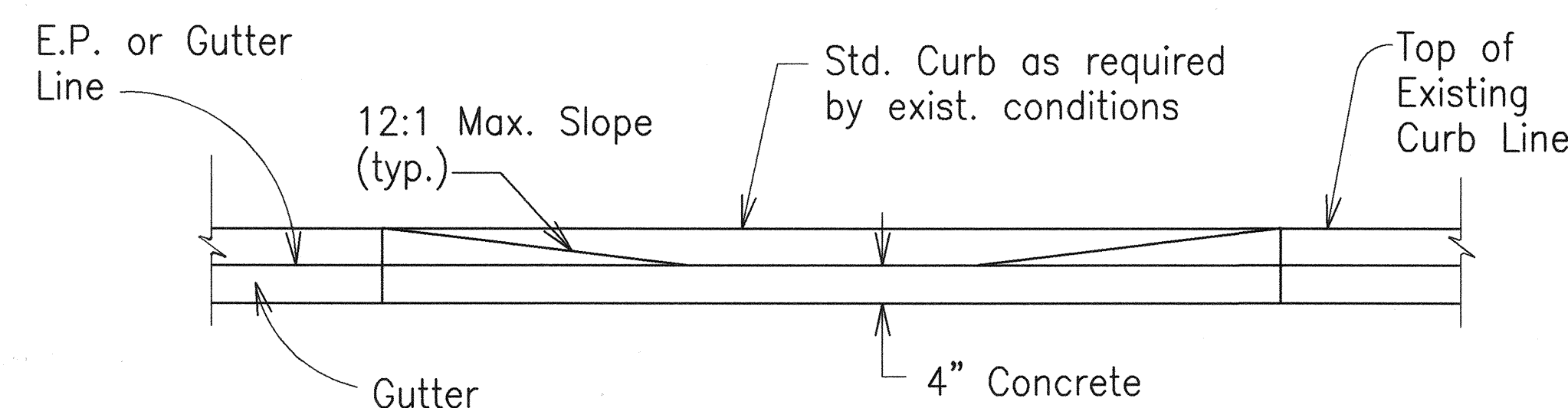
**CURB RAMP - TYPE "B"**  
SIDEWALK WIDTH 4'-0" OR GREATER  
BUT LESS THAN 7'-0" WIDTH  
(FOR EXISTING SIDEWALK ONLY)



DETAIL "B"

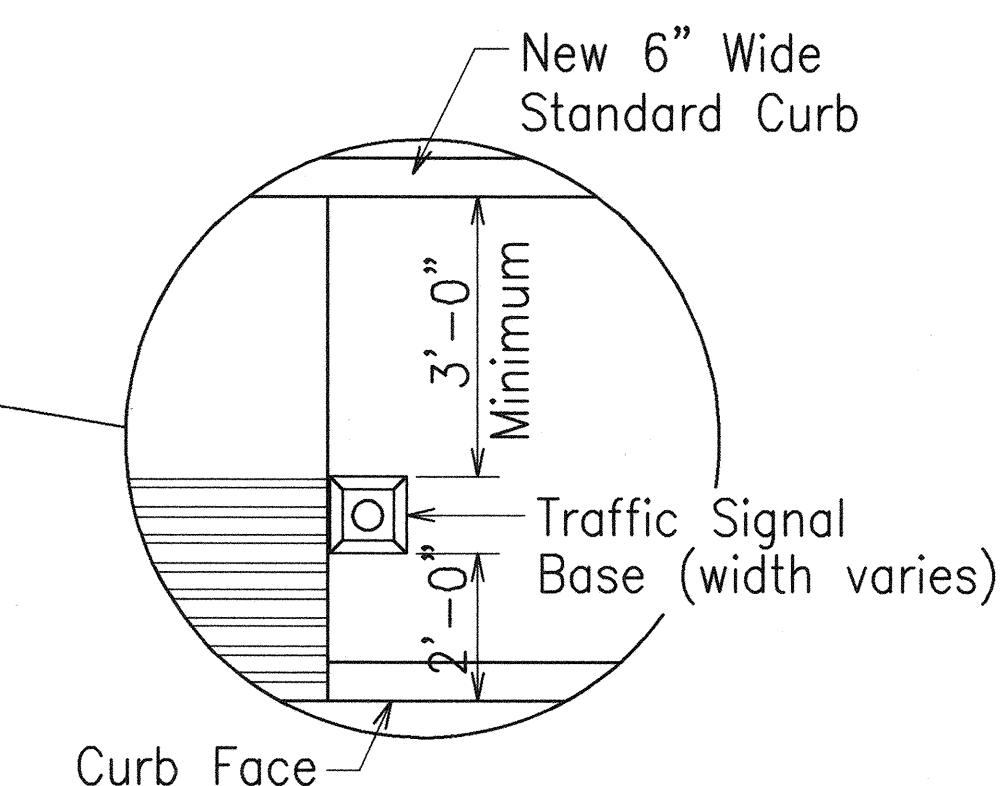


PLAN

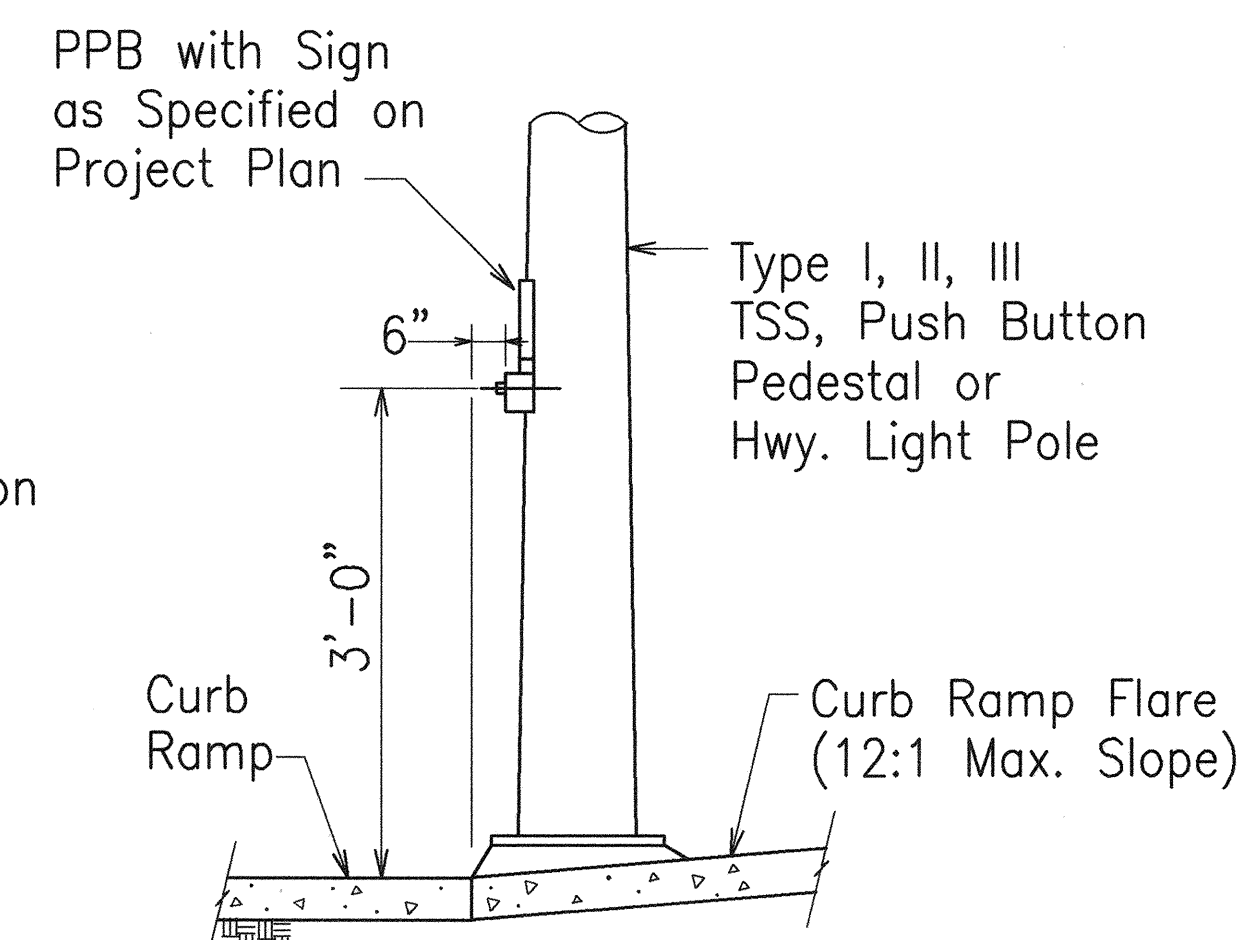


ELEVATION

**CURB RAMP - TYPE "B" MODIFIED**  
SIDEWALK WIDTH 7'-0" OR GREATER  
BUT LESS THAN 10'-0" WIDTH



TYPICAL SECTION

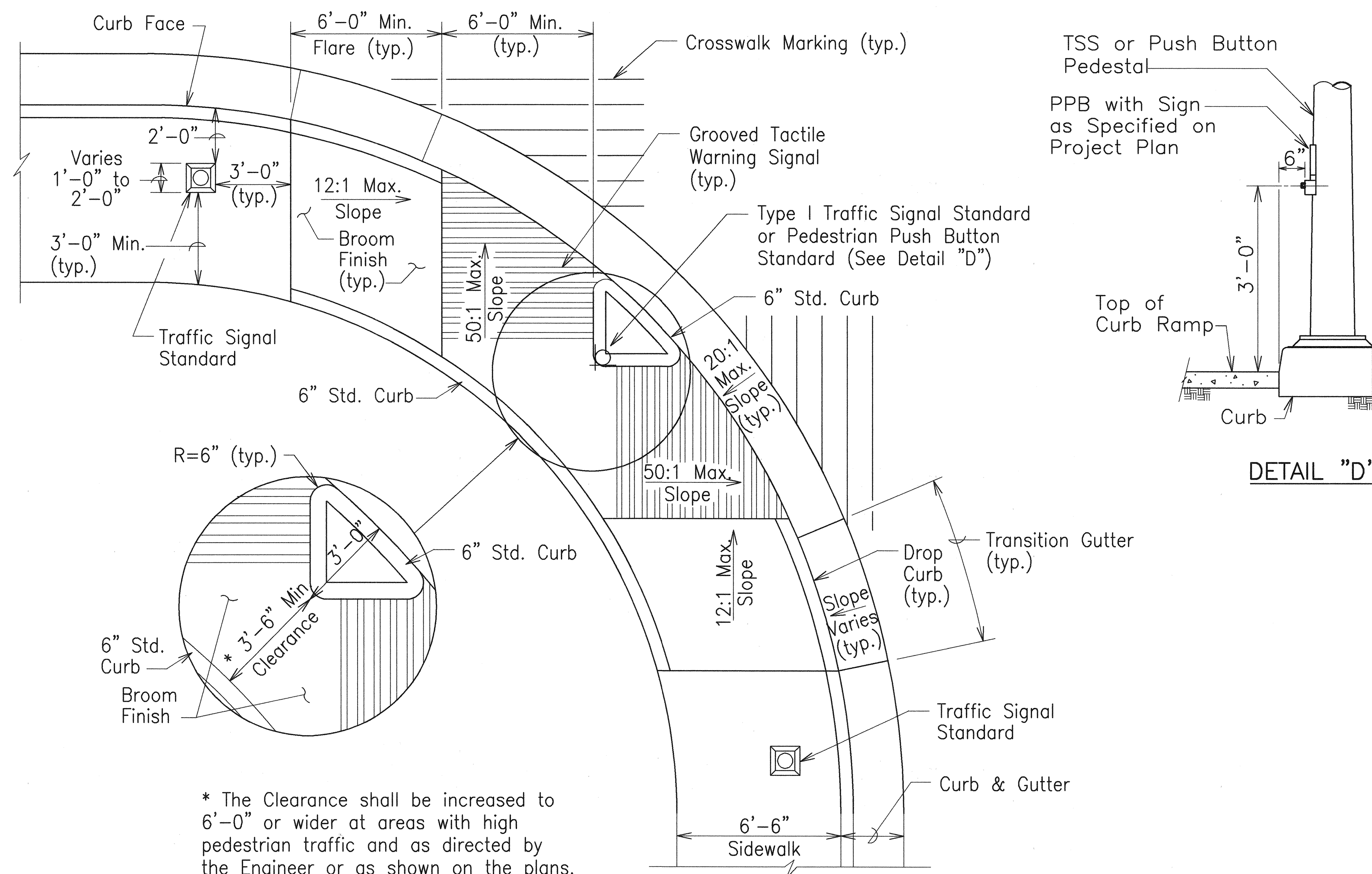


DETAIL "C"

STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION
<b>CURB RAMP DETAIL</b>
KAAHUMANU AVENUE TRAFFIC SIGNAL MODERNIZATION HIGH STREET TO WHARF STREET FEDERAL AID PROJECT NO. NH-STP-032-1(6)
SCALE: AS NOTED DATE: AUG. 1999
SHEET No. 2 OF 3 SHEETS



FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	NH-STP-032-1(6)	2000	19	53



**CURB RAMP - TYPE "E"**  
 SIDEWALK WIDTH 6'-6" OR GREATER  
 EXCLUDING CURB  
 (FOR EXISTING SIDEWALK ONLY)

STATE OF HAWAII  
 DEPARTMENT OF TRANSPORTATION  
 HIGHWAYS DIVISION

**CURB RAMP DETAIL**

KAAHUMANU AVENUE  
 TRAFFIC SIGNAL MODERNIZATION  
 HIGH STREET TO WHARF STREET  
 FEDERAL AID PROJECT NO. NH-STP-032-1(6)

SCALE: AS NOTED      DATE: AUG. 1999

SHEET No. 3 OF 3 SHEETS