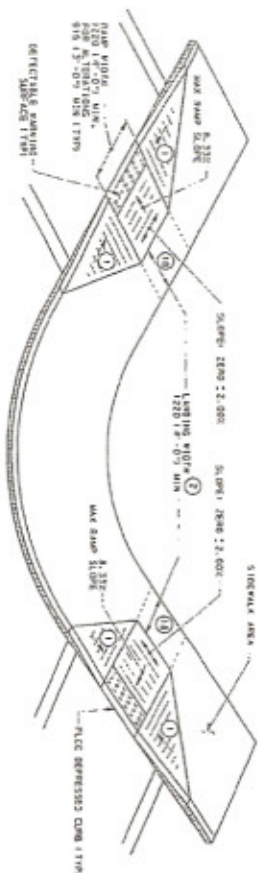


DESIGN SLOPES	MAX. SLOPES	RECOMMENDED SLOPES
1:1.5	1:1.5	1:1.5
1:2	1:2	1:2
1:2.5	1:2.5	1:2.5
1:3	1:3	1:3
1:4	1:4	1:4
1:5	1:5	1:5
1:6	1:6	1:6
1:7	1:7	1:7
1:8	1:8	1:8
1:9	1:9	1:9
1:10	1:10	1:10
1:12	1:12	1:12
1:15	1:15	1:15
1:20	1:20	1:20
1:25	1:25	1:25
1:30	1:30	1:30
1:40	1:40	1:40
1:50	1:50	1:50
1:60	1:60	1:60
1:75	1:75	1:75
1:100	1:100	1:100
1:125	1:125	1:125
1:150	1:150	1:150
1:200	1:200	1:200
1:250	1:250	1:250
1:300	1:300	1:300
1:400	1:400	1:400
1:500	1:500	1:500
1:600	1:600	1:600
1:750	1:750	1:750
1:1000	1:1000	1:1000
1:1250	1:1250	1:1250
1:1500	1:1500	1:1500
1:2000	1:2000	1:2000
1:2500	1:2500	1:2500
1:3000	1:3000	1:3000
1:4000	1:4000	1:4000
1:5000	1:5000	1:5000
1:6000	1:6000	1:6000
1:7500	1:7500	1:7500
1:10000	1:10000	1:10000
1:12500	1:12500	1:12500
1:15000	1:15000	1:15000
1:20000	1:20000	1:20000
1:25000	1:25000	1:25000
1:30000	1:30000	1:30000
1:40000	1:40000	1:40000
1:50000	1:50000	1:50000
1:60000	1:60000	1:60000
1:75000	1:75000	1:75000
1:100000	1:100000	1:100000
1:125000	1:125000	1:125000
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1:200000000	1:200000000	1:200000000
1:250000000	1:250000000	1:250000000
1:300000000	1:300000000	1:300000000
1:400000000	1:400000000	1:400000000
1:500000000	1:500000000	1:500000000

ING CURB HEIGHT	MAX ALLOWABLE RAISE SLIPFE	MAX FLARED
ANY OVER 16.3"	12.500	
ANY OVER 16.3"	10.000	
ANY OVER 8"	8.333	

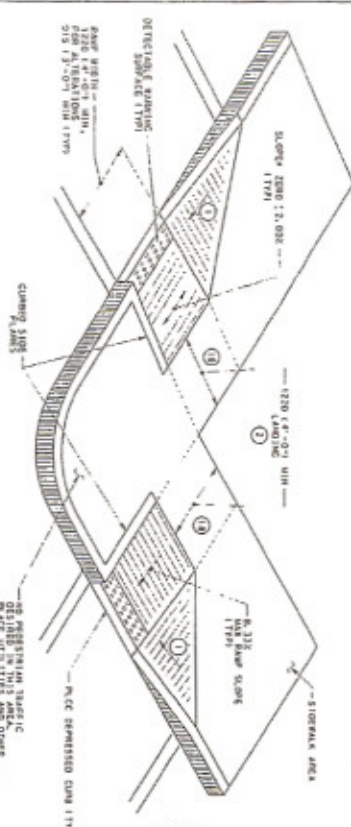
- [illegible]

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.	
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION BUREAU OF DESIGN	
CURB RAMPS AND SIDEWALKS	
NEW CONSTRUCTION OR ALTERATION DETAILS	
RECOMMENDED FOR MS, 1987, LITING CODE, "M-10" DIVISION (SEE DIV. 1) - PARTIAL OR OMISSION	RECOMMENDED FOR MS, 1987, SPT 1 OF 12 RC-67M

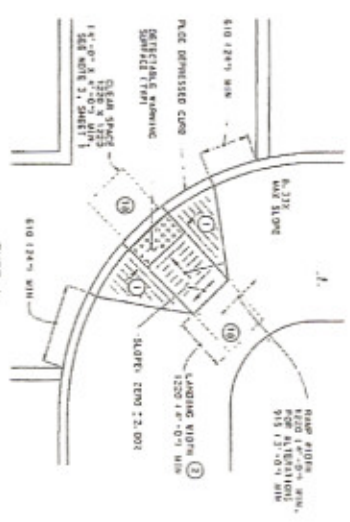


NOTE: IF SPACE IS LIMITED, IT MAY BE NECESSARY TO CONSIDER A SINGLE RAMP INSTALLATION DETAIL. THIS DETAIL IS NOT SHOWN HERE. THE DETAIL MUST NOT BE SUBJECT TO CROSS THE VERTICAL CURVE.

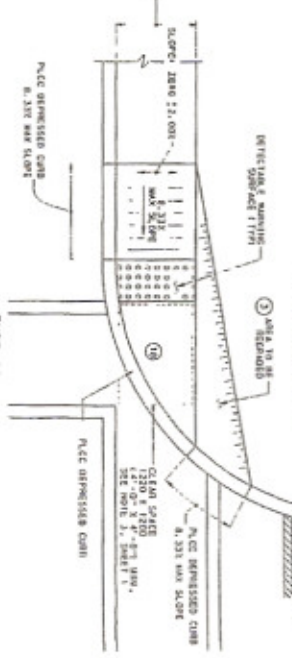
TYPE J
DOUBLE CURB RAMP
PREFERRED INSTALLATION



TYPE J
DOUBLE CURB RAMP
ALTERNATE INSTALLATION



TYPE J
CURB RAMP
(DIAGONAL)
REQUIRES APPROVAL
SEE NOTE 3, SHEET 1



TYPE JA
CURB RAMP
(DIAGONAL)
REQUIRES APPROVAL
SEE NOTE 3, SHEET 1

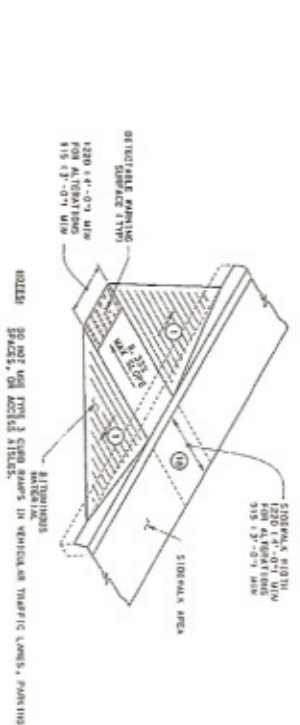
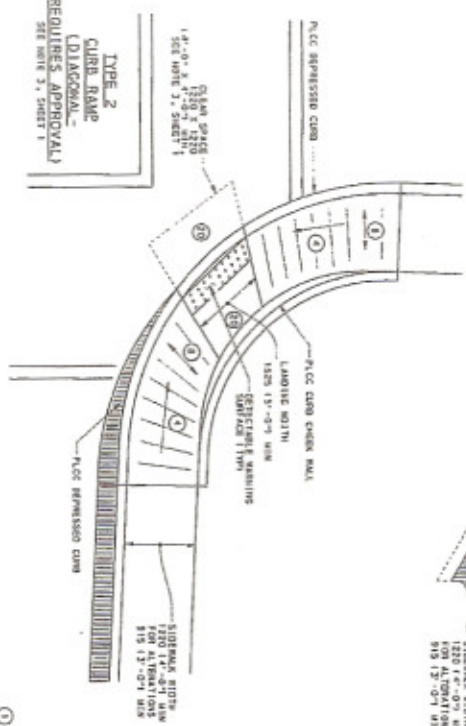
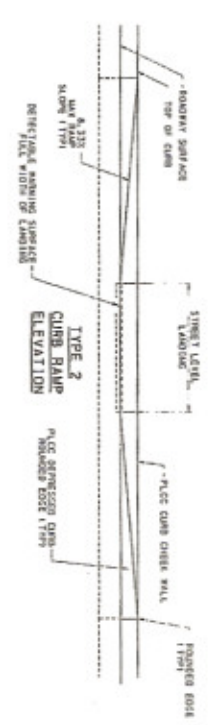
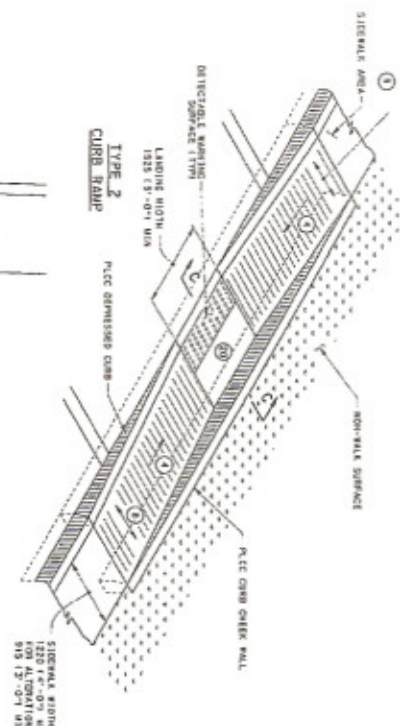
- 1 SIDE PLANKS 10.000 MAX SLOPE
- 2 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 3 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 4 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 5 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 6 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 7 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 8 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 9 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 10 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
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- 12 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
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- 14 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 15 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 16 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 17 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 18 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 19 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.
- 20 SIDE PLANKS 6.325 MAX SLOPE 1220 14'-4"11.

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF DESIGN

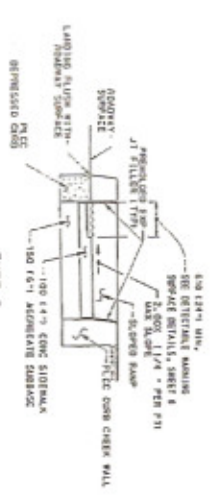
CURB RAMP
NEW CONSTRUCTION OR
ALTERATION DETAILS
TYPE 1 CURB RAMP

RECOMMENDED 11/11/2017 RECOMMENDED 11/11/2017
RC-67M



TYPE 2
CURB RAMP
(DIAGONAL)
REQUIRE APPROVAL
SEE NOTE 3, SHEET 1

TYPE 3
CURB RAMP
(BUILT-UP FOR ALTERATIONS ONLY)
SEE NOTE 11, SHEET 1



- 1 SIDE WALKS 10.00% MAX SLOPE
- 2 150 (1'-0") MIN. CURE
- 3 150 (1'-0") MIN. CURE
- 4 150 (1'-0") MIN. CURE
- 5 150 (1'-0") MIN. CURE
- 6 150 (1'-0") MIN. CURE
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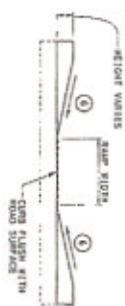
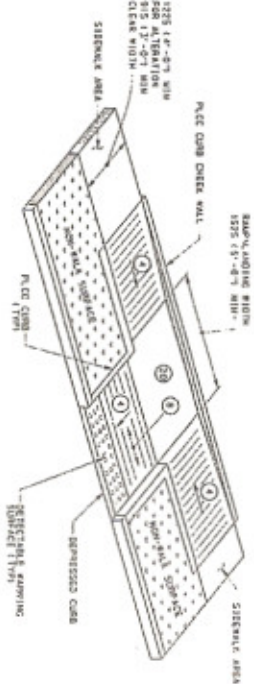
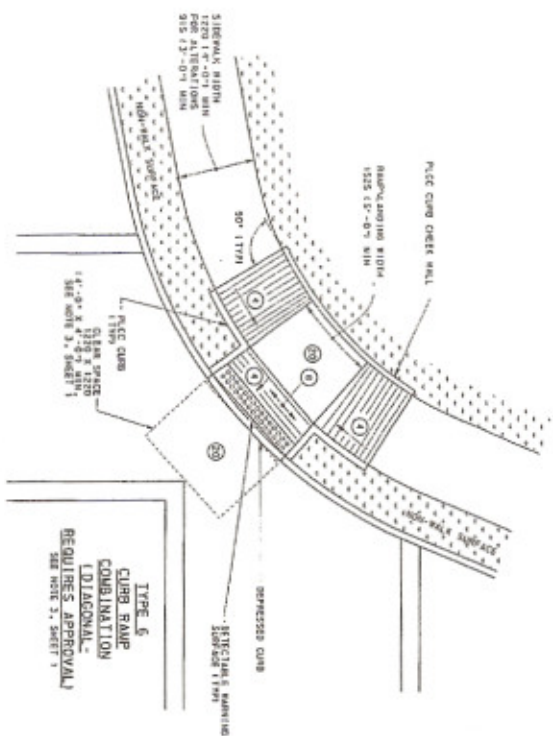
NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF DESIGN

CURB RAMPS AND SIDEWALKS

NEW CONSTRUCTION OR
ALTERATION DETAILS
TYPE 2 AND TYPE 3 CURB RAMPS

REVISIONS: 03/21/2001
REVISIONS: 03/21/2001
SHEET 3 OF 12
RC-67M



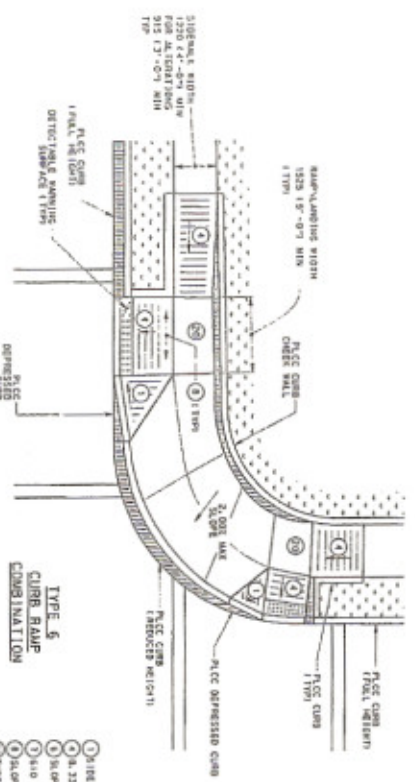
TYPICAL ELEVATIONS
FOR DEPRESSED CURBS

COMBINATION
TRANSITION

VERTICAL
TRANSITION

FLARED
TRANSITION

ROLLED
TRANSITION



- ① SIDE PLANTS TO ONE MAX SLOPE
- ② 3.225 MAX SLOPE
- ③ SLOPE VARIATION SEE RAMP DETAILS
- ④ 1520 (5'-0") MIN SLOPE TRANSITION
- ⑤ 1520 (5'-0") MIN SLOPE TRANSITION
- ⑥ 1520 (5'-0") MIN SLOPE TRANSITION
- ⑦ 1520 (5'-0") MIN SLOPE TRANSITION
- ⑧ 1520 (5'-0") MIN SLOPE TRANSITION
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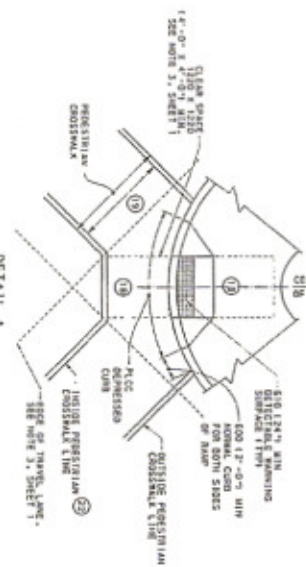
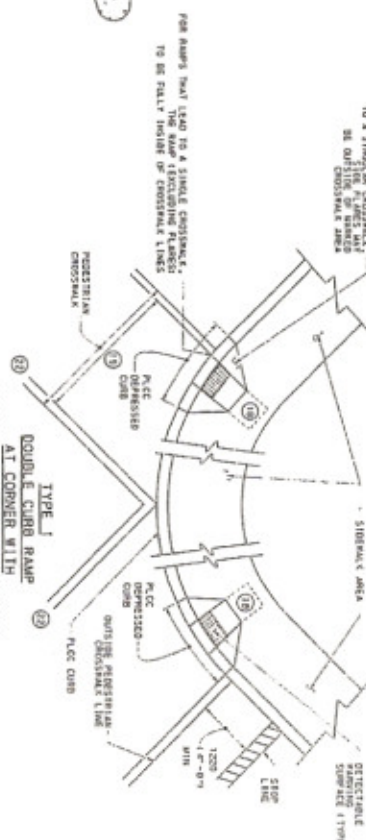
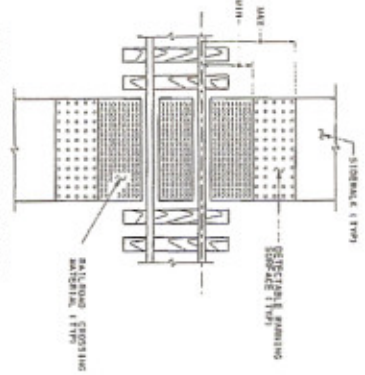
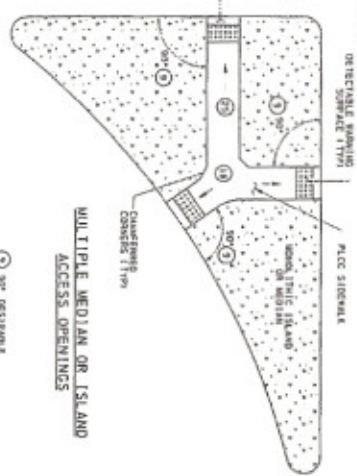
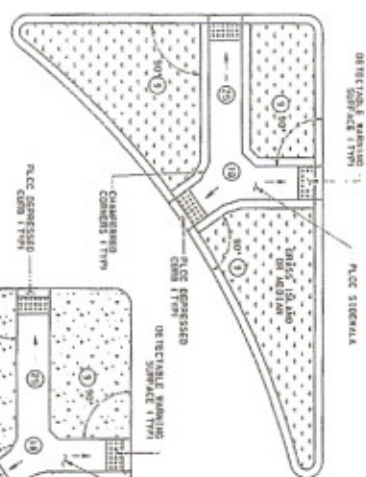
TYPE 6
CURB RAMP
COMBINATION

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES
MUST BE USED ON PLANS. METRIC AND
ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF DESIGN

CURB RAMPS AND SIDEWALKS
NEW CONSTRUCTION OR
ALTERATION DETAILS
TYPE 6 CURB RAMPS
AND TYPICAL ELEVATIONS

RECOMMENDED MAY 20, 2002	RECOMMENDED MAY 20, 2002	SHEET 3 OF 12
ACTIVE CHAIR, INT. OR DISSEMINATION DIV., BUREAU OF DESIGN	RC-67M	

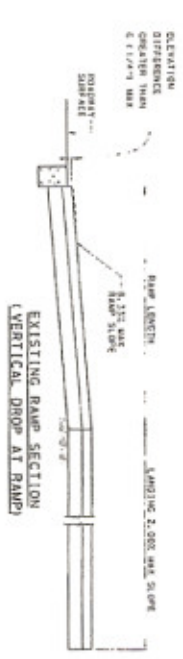


DETAIL A
CLEAR SPACE
AT CROSSWALK MARKINGS
PLAN
SEE NOTE 3, SHEET 1

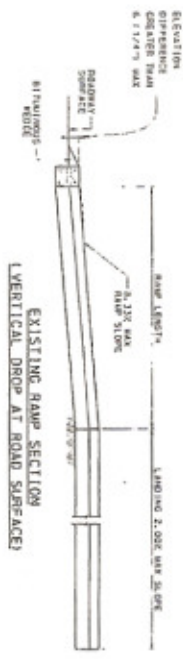
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
CROSSWALK MARKINGS
NEW CONSTRUCTION OR
ALTERATION DETAILS
RC-67M

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES
MAY BE USED ON PLANS. METRIC AND
ENGLISH VALUES SHOWN MAY NOT BE MIXED.

RECOMMENDED SIZE 12, 2007
RECOMMENDED SIZE 12, 2007
SHEET 2 OF 12
RC-67M



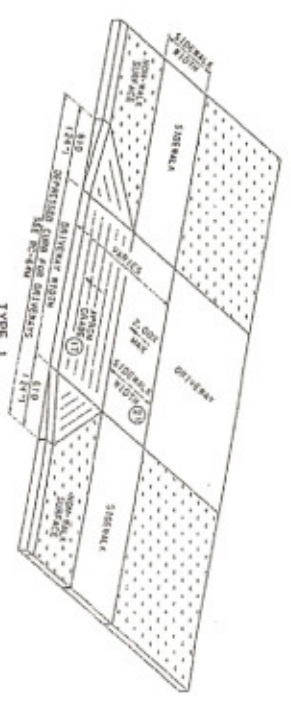
RECOMMENDED CONNECTION
OPTION 1: REMOVE EXISTING RAMP AND RECONSTRUCT AT 8.332 MAX
PARTIAL RAMP RECONSTRUCTION DETAIL.
OPTION 2: RECONSTRUCT THE EXISTING RAMP WITH LANDINGS, SEE TOP, RAMP
RECONSTRUCTION DETAIL.



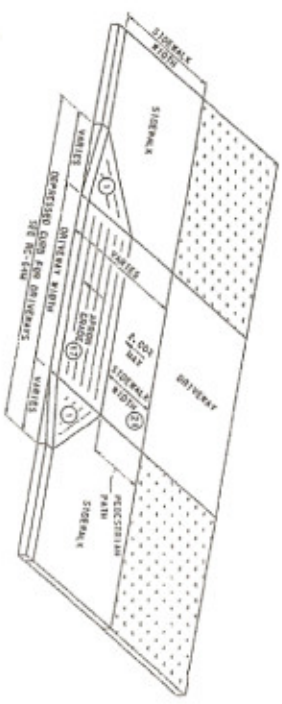
RECOMMENDED CONNECTION
RAMP RECONSTRUCTION DETAIL AT 8.332 MAX
PARTIAL RAMP RECONSTRUCTION DETAIL.
OPTION 2: RECONSTRUCT THE EXISTING RAMP WITH LANDINGS, SEE TOP, RAMP
RECONSTRUCTION DETAIL.



RECOMMENDED CONNECTION
RAMP RECONSTRUCTION DETAIL AT 8.332 MAX
PARTIAL RAMP RECONSTRUCTION DETAIL.



TYPE J
DRIVEWAY APRON



TYPE I A
DRIVEWAY APRON

DRIVEWAY APRONS ON A RAMP SIDEWALK CONNECTION
SHOULD BE DETAIL TO INCLUDE LEVEL LANDING.

- ① SIDE PLATES 18.000 MAX RAMP
- ② RAMP CHANGING TO GRADE BETWEEN ROAD
SURFACE AND DRIVEWAY
- ③ RAMP AND SIDEWALK CONNECTION
FOR ALTERNATION 10/10/10 12/10 14'-0"
- ④ MINIMUM SIDEWALK WIDTH 11'-0"

NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES
MAY BE USED ON PLANS. METRIC AND ENGLISH
ENGLISH VALUES SHOWN MAY NOT BE MIXED.
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
CURB RAMPS AND SIDEWALKS
ALTERATION DETAILS
AND DRIVEWAY APRONS

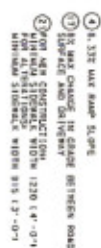
RECOMMENDED 315 11. 2002	RECOMMENDED 315 11. 2002	SHEET 10 OF 12
DATE: 01/11/11	DATE: 01/11/11	RC-67M



REALITY: DRIVEWAY CLOSURES FORCE PEDESTRIANS AND OTHER TRAFFIC TO FIND ALTERNATE ROUTES. THERE IS NO WAY TO PROVIDE A LEVEL LANDING FOR ALL PEDESTRIANS. DRIVEWAY CLOSURES ARE NOT AS EFFECTIVE AS OTHER METHODS. DRIVEWAY CLOSURES CAN BE USED TO REDUCE TRAFFIC TO RECOGNIZE TWO STOPS (INSTEAD OF A LEVEL CROSSING).



TYPE 4
DRIVEWAY APRON



NOTE: EITHER ALL METRIC OR ALL ENGLISH VALUES MUST BE USED ON PLANS. METRIC AND ENGLISH VALUES SHOWN MAY NOT BE MIXED.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF GENERAL COUNSEL

CURB RAMPS AND SIDEWALKS

DRIVEWAY APRONS

RC-67M	REC'D 11 APR 12
ACTIVE TOILET, WET, SA DIVISION	REC'D 11 APR 12
ACTIVE TOILET, WET, SA DIVISION	REC'D 11 APR 12

ADA Design Check List

ADA Feature or Curb Ramp Asset Management Number

Designer: _____ (Print Name) Date: _____

- ☐ Identify where pedestrian access is required
- ☐ Identify need for crosswalks and stopbar locations
- ☐ Curb ramp provided at all desired crosswalks. One curb ramp at each crossing direction (as feasible)
- ☐ 2.00% max. curb ramp and sidewalk cross-slope maintained in direction of pedestrian traffic
- ☐ 2.00% max. slope all directions where pedestrian makes a turning maneuver
- ☐ 5.00% max. longitudinal slope maintained in direction of pedestrian traffic (roadway pitch)
- ☐ 8.33% max. curb ramp slope.
- ☐ 8.33% max. flare slope in pedestrian path (10% max. for alterations with a 4'-0" landing)
- ☐ Curb ramps installed at 90° to the face of curb (or maximum extent feasible)
- ☐ Identify utility locations crossing pedestrian pathways.
- ☐ Utility box covers installed away from curb ramp surface to maximum extent feasible
- ☐ Utility box covers at grade in the path of travel are flush and surface is firm, stable, and slip resistant
- ☐ Utility, signal, & light poles, fire hydrants, sign posts, pull boxes, other street furniture, etc. located away from the curb ramp to the maximum extent feasible.
- ☐ Min. 36" (48" desirable) unobstructed, continuous, clear width maintained
- ☐ Wheelchair passing areas of 60" x 60" provided every 200' for sidewalk widths less than 5'
- ☐ Depressed curb is flush with roadway and bottom of curb ramp or landing. (no lip)
- ☐ Adequate drainage provided to prevent ponding at bottom of curb ramp
- ☐ 48" x 48" clear space provided within crosswalk marking and out of travel lanes for diagonal curb ramp locations.
- ☐ Curb ramp surface areas are firm, stable and slip resistant.
- ☐ Grate openings or walkway surface gaps less than 1/2" wide measured in the direction of ped. traffic
- ☐ 24" (min) DWS strip installed for full width of ramp or to nearest 1 foot increment
- ☐ DWS domes arranged parallel to direction of pedestrian traffic.
- ☐ One corner of DWS within 8" of face of curb, other leading edge no more than 60" from face of curb
- ☐ DWS field (not dome top) is flush with adjacent curb ramp surface. DWS surface is slip resistant.
- ☐ DWS creates a dark-on-light or light-on-dark visual contrast to adjacent pavement.
- ☐ Ped buttons located 10'-0" min apart
- ☐ Ped buttons located 5'-0" max from crosswalk line, 10'-0" from face of curb
- ☐ Ped button perpendicular to path of travel and sign face located parallel to path of travel
- ☐ Technically Infeasible Report Forms need to be completed and filed with project documents.

ADA Construction Inspection Check List

Curb Ramp Asset Management Number

(check list to supplant the field form)

CI Inspector: _____ (Print Name) Date: _____

- ☐ 2.00% max. curb ramp and sidewalk cross slope maintained in direction of pedestrian traffic
- ☐ 2.00% max. slope all directions where pedestrian makes a turning maneuver
- ☐ 5.00% max. longitudinal slope maintained in direction of pedestrian traffic (roadway pitch)
- ☐ 8.33% max. curb ramp slope.
- ☐ 8.33% max. flare slope in pedestrian path (10% max. for alterations with a 4'-0" landing)
- ☐ Curb ramps installed at 90° to the face of curb (or max. extent feasible)
- ☐ Curb ramps provided at all crosswalk locations
- ☐ All utility covers installed away from curb ramp surface to maximum extent feasible
- ☐ Utility poles, fire hydrants, light poles, signal poles, sign posts, pull boxes, etc. installed away from curb ramp surface to maximum extent feasible
- ☐ Utility box covers in the pathway are flush with sidewalk and surface is firm, stable and slip resistant
- ☐ Min. 36" (48" desirable) unobstructed, continuous, clear width maintained
- ☐ Depressed curb is flush with roadway and bottom of curb ramp or landing. (no lip)
- ☐ Adequate drainage provided. No ponding of water at bottom of ramp anticipated.
- ☐ 48" x 48" clear space provided within crosswalk marking and out of travel lanes for diagonal curb ramp locations.
- ☐ Curb ramp surface is firm, stable and slip resistant
- ☐ Grate openings or walkway surface gaps less than 1/2" wide measured in the direction of ped. traffic
- ☐ 24" (min) DWS strip installed for full width of ramp or to nearest 1 foot increment
- ☐ DWS domes arranged parallel to direction of pedestrian traffic
- ☐ One corner of DWS within 8" of face of curb, leading edge no more than 60" from face of curb
- ☐ DWS field (not top of dome) is flush with adj. ramp surface. DWS surface is slip resistant.
- ☐ DWS creates a dark-on-light or light-on-dark visual contrast to adjacent pavement
- ☐ Ped buttons located 10'-0" min apart
- ☐ Ped buttons located 5'-0" max from crosswalk line, 10'-0" from face of curb
- ☐ Ped button perpendicular to path of travel and sign face located parallel to path of travel
- ☐ Technically Infeasible Report Form needs to be completed and filed w/ project documents

ADA Technically Infeasible Form

General Information

General Description of Project:

Overlay project from SR 0000 to SR 0000. ADT is 10,000 vehicles per day. Pedestrian traffic is present and project contains multiple trip generators within the limit of work

*District: 08

*County: Adams

*Twshp/Boro: Gettysburg Boro

Submitted By: J Redding

*Submitter Company: Greenhome & O'Mara Inc

Street Address 5000 Ritter Road Ste 102

City State Zip Mechanicsburg Pa 17320

Telephone 717-691-3355

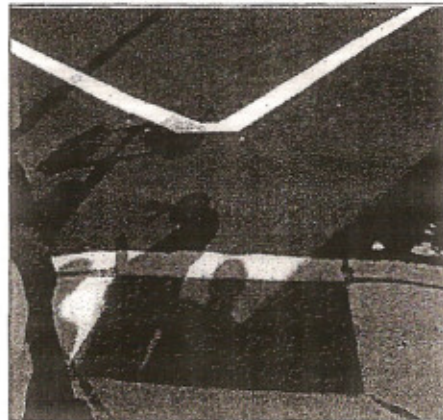
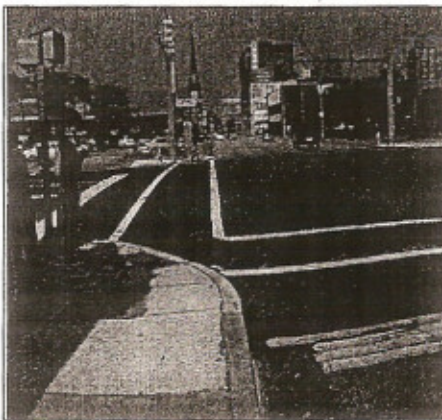
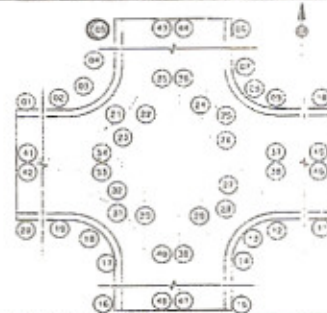
*Date Submitted: December 3, 2007

Investigated design alternatives	Why alternative was not selected
1.) Separate curb ramps	Utilities limit placement
2.) Reduce radi at return	Sidewalk width to narrow and R/W not available
3.)	

Alternative selected and description of what requirement is not met

Diagonal ramp, landing is not totally outside of travel lanes.

☐ Street Address of Site Street Address _____ City _____ Zip _____ (Area) - Phone _____ Number _____	☒ Intersection *SR North 0003 _____ *SR South 0002 _____ *SR East 0003 _____ *SR West 0002 _____ *Location # 05 _____
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ADE Approval Status ☐ Approved District ADE Design ☐ Denied	ADA Coordinator Approval Status ☐ Approved ADA Coordinator, Christopher Drda, P.E. ☐ Denied Consultant Agreement Section 400 North Street, 7th Floor Harrisburg, PA 17120-0094
TIF #: TIF-08-Adams-Gettysburg Boro-Greenhome & O'Mara Inc-05-0003-0002-0003-0002-39419	

(all fields marked with * provide data for TIF #)

ITEM 9695-2001 (9695-0001) SIDEWALK DETECTABLE WARNING SURFACES, CAST IRON; ITEM 9695-2002 (9695-2002) SIDEWALK DETECTABLE WARNING SURFACES, POLYMER CONCRETE; ITEM 9695-2003 (9695-0003) SIDEWALK DETECTABLE WARNING SURFACES, POLYMER COMPOSITE

Instructions for Usage: For use on all new construction or alteration projects where American's with Disability Act (ADA) pedestrian accessibility using curb ramps is required. Use in accordance with letter dated April 18, 2007. The materials: cast iron, polymer concrete, and polymer composite should be listed as alternates to each other.

For projects let after June 22, 2007.

695.1 DESCRIPTION – This work is furnishing all material, equipment, tools, and labor required for the placement and installation of detectable warning surfaces on cement concrete sidewalk curb ramps and other designated surfaces in order to provide a tactile warning for pedestrians with visual impairments under the provisions of the Americans with Disabilities Act (ADA).

695.2 MATERIAL –

(a) Detectable Warning Surfaces (DWS). Provide a DWS product from a manufacturer listed in Bulletin 15 and meeting the requirements of the Americans with Disabilities Act Accessibility Guidelines (ADAAG). Provide certification as specified in Section 106.03(b)3 that the DWS meets the following ADAAG criteria:

- **General.** Detectable warning surface with the surface comprised of truncated domes. Dome size and spacing as specified and as indicated on Standard Drawing RC-67M.
- **Surface.** Slip resistant.
- **Contrast.** Provide a DWS color, as approved by the Representative, that contrasts visually with adjacent walking surfaces either light-on-dark or dark-on-light.

(b) Other Material.

- **Class A Cement Concrete** – Section 704
- **Subbase** – Section 350
- **Joint Sealant Material** – Section 705.4(a), (b), or (c)

695.3 CONSTRUCTION –

(a) **General.** Provide a copy of the DWS manufacturer's written installation instructions.

(b) **New Construction.** Coordinate this work with the requirements for new Cement Concrete Sidewalks, Section 676. Follow DWS manufacturer's instructions for a cast-in-place installation at the locations indicated and in accordance with the requirements of Standard Drawing RC-67M for the designated curb ramp type or other designated surface.

(c) **Alteration or Retrofit Construction.** Saw cut and remove the entire depth of existing concrete from the area where the DWS will be placed. Replace any removed or disturbed aggregate subbase and compact before placing new concrete.

Place new cement concrete and follow the DWS manufacturer's installation instructions for a cast-in-place installation.

Fill any saw cut gaps with approved joint sealant material. Fill any gaps around the DWS edge installation with the joint material if necessary.

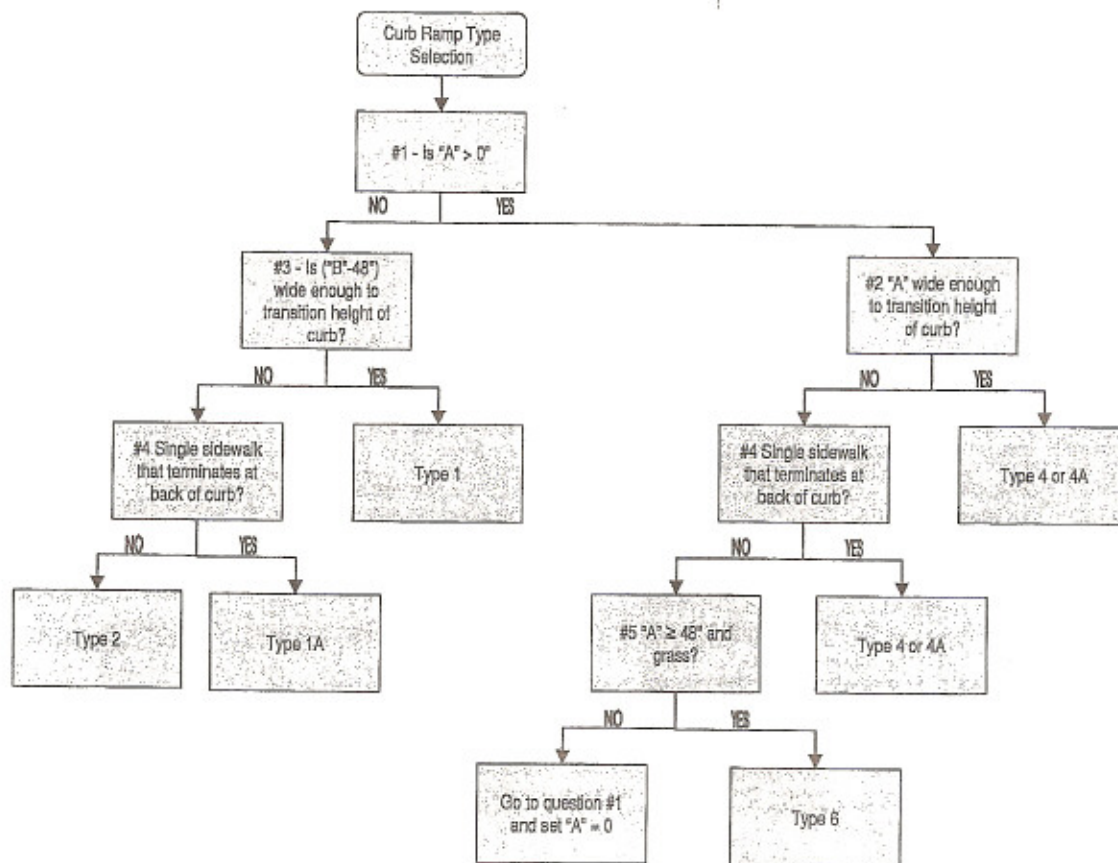
(d) **Protection.** Protect the new sidewalk and DWS surface from pedestrian traffic until the adjoining cement concrete surfaces have properly cured and work is complete at the curb ramp location. Clean the DWS surface using a method recommended by the manufacturer.

695.4 MEASUREMENT AND PAYMENT – Square Meter (Square Foot)

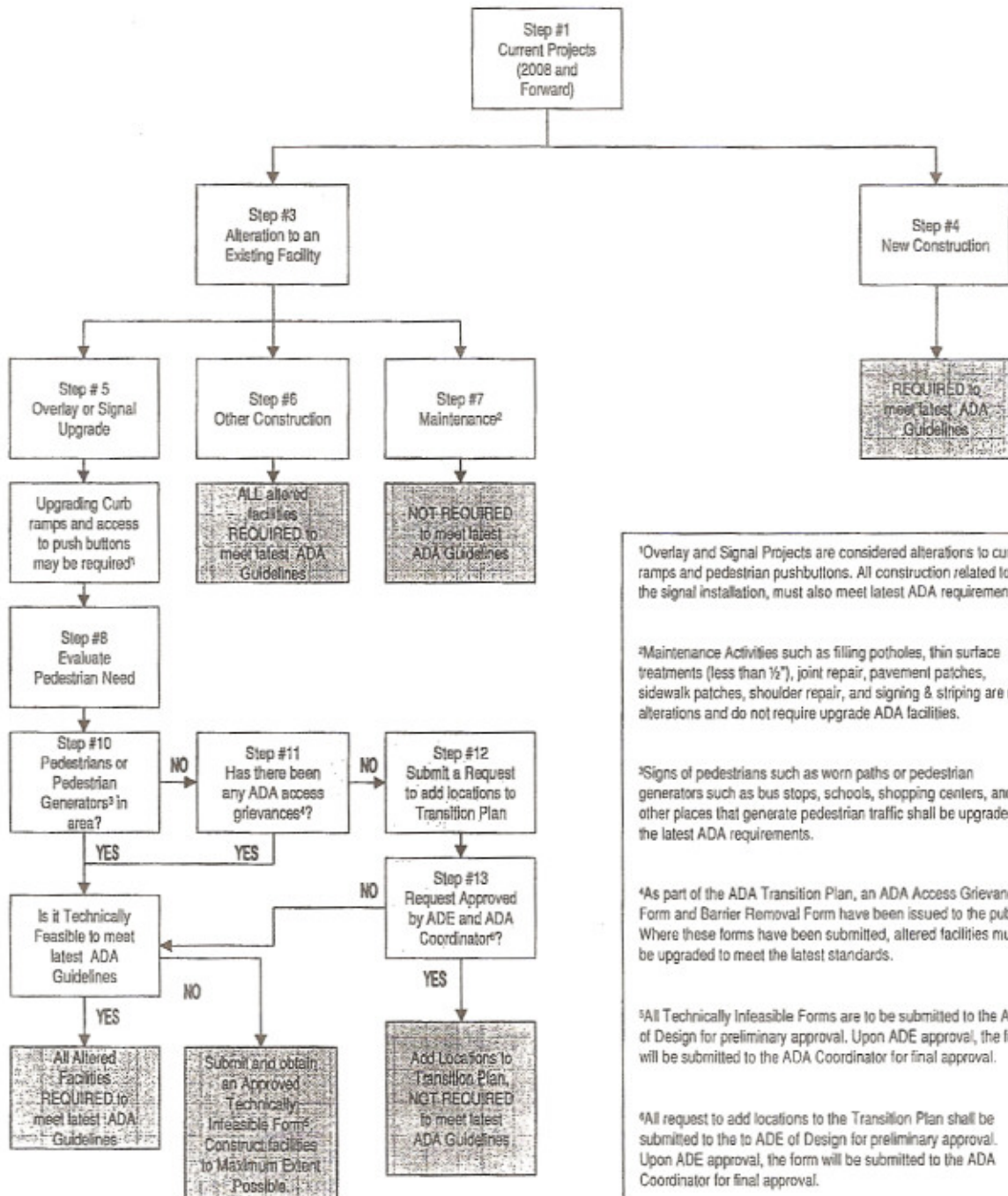
Curb Ramp Selection Work Flow

"A" - Distance from back of curb to face of sidewalk or distance from back of curb to pedestrian path.

"B" - Distance from back of curb to back of sidewalk.



Determining Level of ADA Accommodations



¹Overlay and Signal Projects are considered alterations to curb ramps and pedestrian pushbuttons. All construction related to the signal installation, must also meet latest ADA requirements.

²Maintenance Activities such as filling potholes, thin surface treatments (less than 1/2"), joint repair, pavement patches, sidewalk patches, shoulder repair, and signing & striping are not alterations and do not require upgrade ADA facilities.

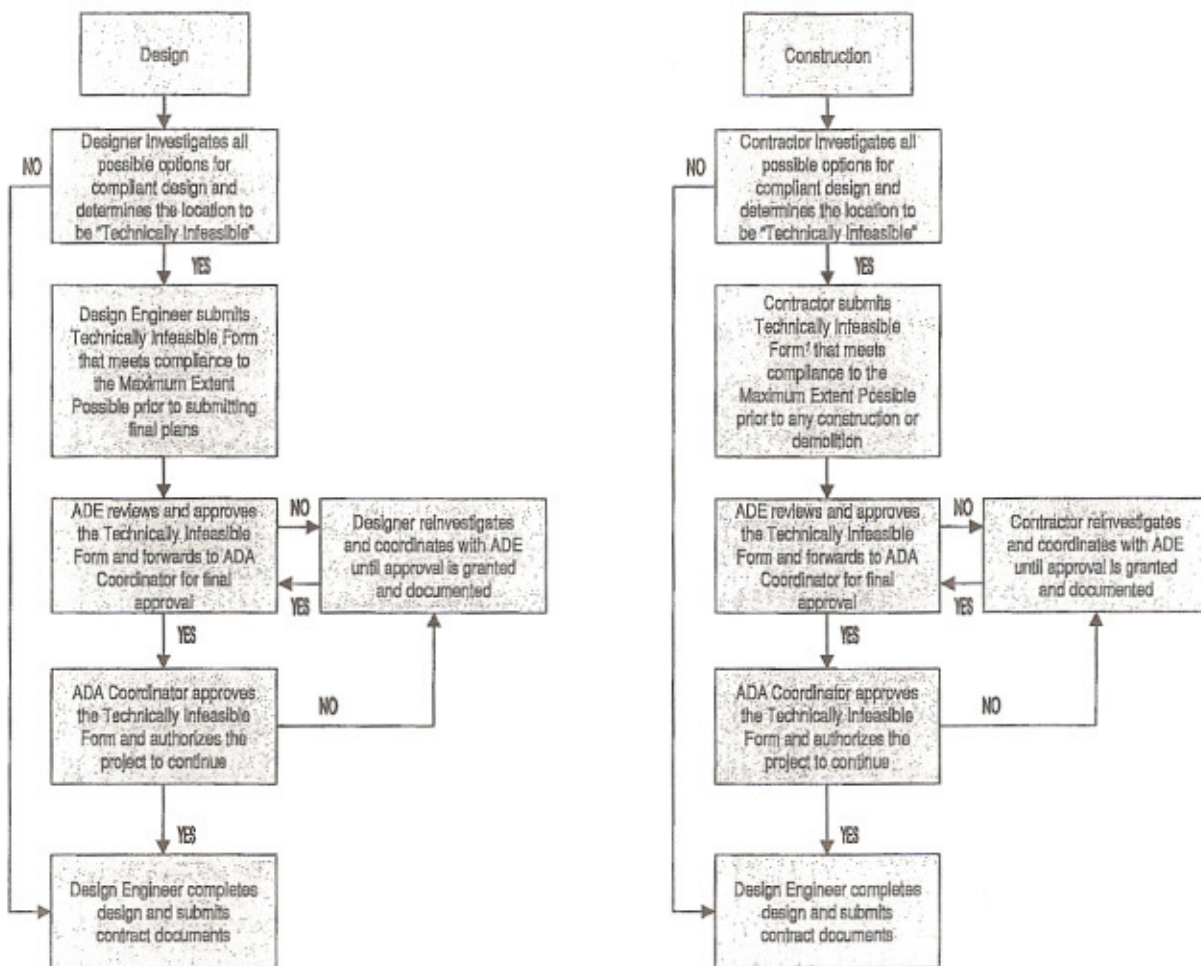
³Signs of pedestrians such as worn paths or pedestrian generators such as bus stops, schools, shopping centers, and other places that generate pedestrian traffic shall be upgraded to the latest ADA requirements.

⁴As part of the ADA Transition Plan, an ADA Access Grievance Form and Barrier Removal Form have been issued to the public. Where these forms have been submitted, altered facilities must be upgraded to meet the latest standards.

⁵All Technically Infeasible Forms are to be submitted to the ADE of Design for preliminary approval. Upon ADE approval, the form will be submitted to the ADA Coordinator for final approval.

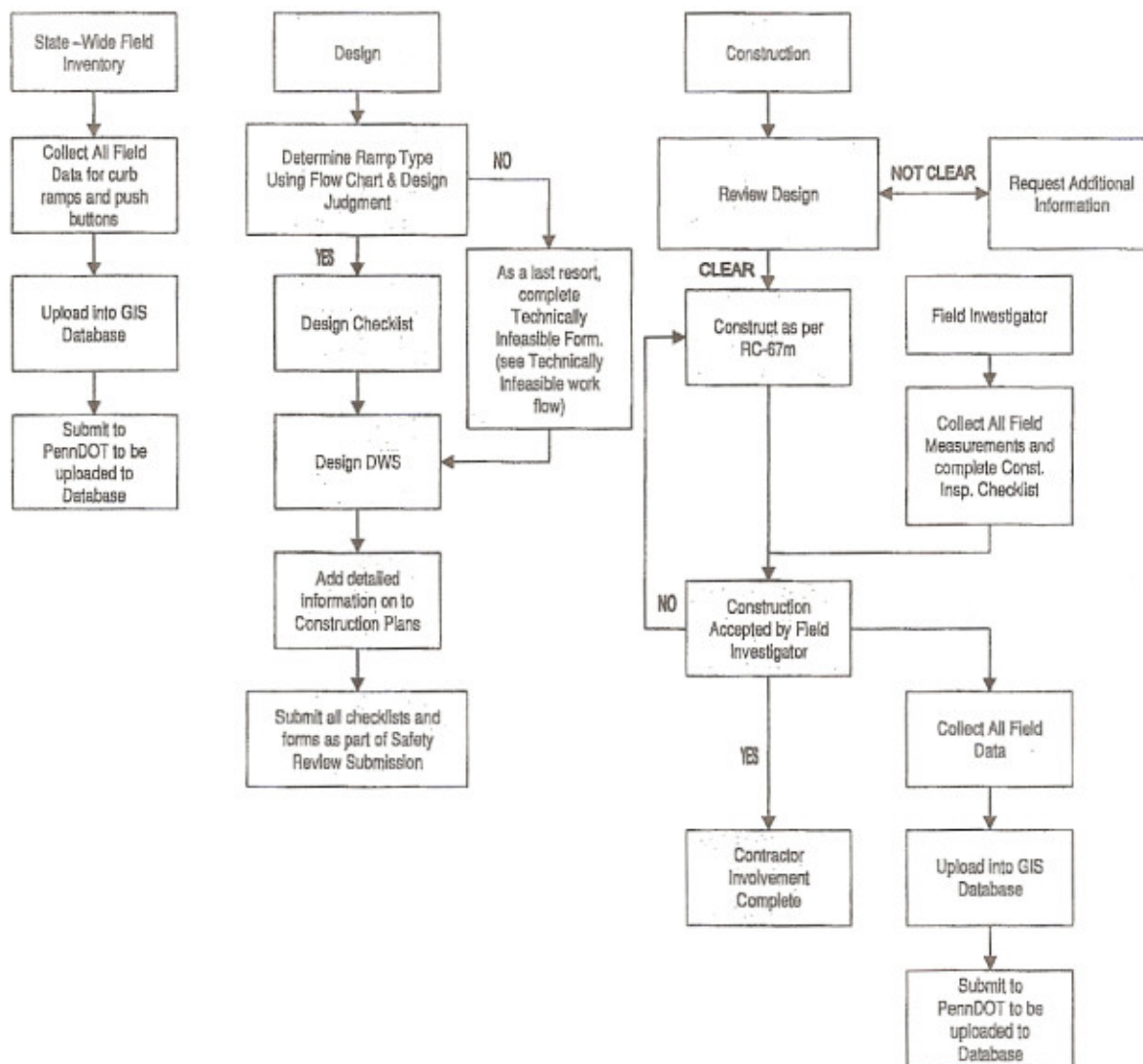
⁶All request to add locations to the Transition Plan shall be submitted to the ADE of Design for preliminary approval. Upon ADE approval, the form will be submitted to the ADA Coordinator for final approval.

Technically Infeasible Work Flow



*Contractor may also submit an RFI. For this scenario, the designer may need to complete the Technically Infeasible Form.

Curb Ramp Asset Management Work Flow



PennDOT/Municipality Course of Action

