

**BOROUGH OF BANGOR  
COUNTY OF NORTHAMPTON  
COMMONWEALTH OF PENNSYLVANIA  
ORDINANCE NO. 990**

**AN ORDINANCE OF THE BOROUGH OF BANGOR, NORTHAMPTON  
COUNTY, PENNSYLVANIA, ESTABLISHING STANDARDS FOR THE  
CONSTRUCTION, REPLACEMENT AND MAINTENANCE OF SIDEWALK,  
CURB, DEPRESSED CURB (HANDICAP) RAMPS AND DEPRESSED  
DRIVEWAY CURB/APRON, AND PRESCRIBING PENALTIES FOR  
VIOLATION THEREOF, REPEALING ALL INCONSISTENT ORDINANCES  
AND ESTABLISHING AN EFFECTIVE DATE**

**NOW, THEREFORE**, it is hereby **ORDAINED** and **ENACTED** by the Borough Council of the Borough of Bangor, County of Northampton and Commonwealth of Pennsylvania, as follows:

**Section 1. Responsibility of property owner to construct concrete sidewalk, curb, depressed curb (handicap) ramps, and depressed driveway curb/aprons.**

- A. Every owner of property abutting upon any public street or alley, or any public right-of way, shall be required, after notice given as herein provided, to construct concrete sidewalk, curb, depressed curb ramps and depressed driveway curb/apron, or any of them, adjacent to their property or properties in accordance with the grade and line established or to be established by the Borough. Locations where existing conditions limit the ability to install sidewalks, partial or complete, may be exempted from installing sidewalks at the sole discretion of the Borough Council. Appropriate construction details must be submitted for review by the Borough. The cost of constructing said sidewalk, curb, depressed curb ramps and depressed driveway curb/apron, or any of them, shall be paid by the owner of the property affected.
- B. Further, it shall be the duty of property owners, as above, to install depressed curb ramps concrete ramps when constructing new curbing and sidewalk at a street intersection or when reconstructing both curbing and sidewalk at a street intersection. Depressed curb ramps shall be installed in accordance with the standards set forth herein.
- C. All improvements in the public right-of-way, or abutting upon any public street or alley, shall require approval of the Borough Manager, Code Enforcement Officer and/or their designee and the issuance of a work permit prior to the start of any work thereunder.

**Section 2. Responsibility of property owner to repair, replace or install concrete sidewalk, curb, depressed curb (handicap) ramps, and depressed driveway curb/aprons.**

- A. Whenever any sidewalk, curb, depressed curb ramps and depressed driveway curb/apron shall become out of repair or require replacement, or, if absent, require installation of same, it shall be the responsibility of the owner of such property or properties to repair, reconstruct or install sidewalk, curb, depressed curb ramps and depressed driveway curb/apron, as directed by the Borough Manager, Code Enforcement Officer and/or their designee. The property owner is hereby required and enjoined to repair the same with concrete or, in the alternative, with said materials with which said curb or sidewalk had been constructed if such alternative material shall be approved by the Borough Manager or Borough Engineer. Appropriate construction details must be submitted for review by the Borough. The cost of repairing, replacing and/or installing

said sidewalk, curb, depressed curb ramps and depressed driveway curb/apron, or any of them, shall be paid in each and every case by the owner of the property affected.

- B. In addition to the above requirements, prior to the property changing ownership by transfer from grantor to grantee by legal deed, it shall be the responsibility of the owner or owners of the property to make necessary repairs to sidewalk, curb, depressed curb ramps and depressed driveway curb/apron abutting a property in compliance with the provisions herein. The legal owner or owners of the property shall, prior to transfer of ownership of the property, notify the Borough of the pending sale and/or transfer of ownership in the property. The Borough Manager, Code Enforcement Officer or their designees, shall inspect the owners' sidewalk, curb, depressed curb ramps and depressed driveway curb/apron abutting upon any public street or alley, or right-of-way, to determine compliance with this Ordinance. It shall be the responsibility of the owner to bring the sidewalk, curb, depressed curb ramps and depressed driveway curb/aprons adjacent to and/or traversing the property into compliance with this Ordinance prior to the sale and/or transfer of the real estate. The owners shall obtain written verification from the Borough that said improvements are in compliance with the requirements herein prior to the sale and/or transfer of the property. The cost of repairing, replacing and/or constructing improvements, shall be paid in each and every case by the owner of the property affected.
- C. All improvements in the public right-of-way or abutting upon any public street or alley, shall require the issuance of a work permit prior to construction of improvements.
- D. In addition to applicable Borough codes and Ordinances, the 2009 International Property Maintenance Code and subsequent revisions, Section 302.2, Sidewalks and Driveways, shall be incorporated as if it were part of this Ordinance.

### **Section 3. Work permits; Inspection.**

- A. A work permit is required prior to the replacement of installation of any sidewalk, curb, depressed curb ramps and depressed driveway curb/apron that is located within the right-of-way, or abutting any street or alley, within the Borough of Bangor. The permit fee, and any associated inspection costs, shall be as established from time to time by resolution of the Borough Council and shall be paid to the Borough at the time that the permit is issued. The Borough Manager, or his/her designee, is hereby authorized to issue said permits and to collect the appropriate permit fee. A separate permit shall be required for each parcel. Permits are valid for a period of 30 days unless extended or renewed by the Borough Manager.
- B. All work performed under a work permit as set forth in this Ordinance is subject to inspection by the Borough Manager, Code Enforcement Officer or their designees.
  - 1. Preliminary – The owner, contractor or laborer, prior to placing any concrete, shall request an inspection of the concrete forms at least 24 hours in advance, during normal business hours. Permission to proceed will be granted if the work is in accordance with established lines, grades and applicable standards and specifications.
  - 2. Final – After concrete has been placed and finished in accordance with the standards and specifications herein, a final inspection will be conducted. If the work meets all specified requirements, the owner, contractor or laborer will be given final approval. All work not meeting specifications, standards and Ordinances as defined by the Borough Manager or Code Enforcement Officer is subject to removal. All costs associated with such removal shall be borne by the owner or their agent.

#### **Section 4. Construction specifications.**

All sidewalk, curb, depressed curb ramps and depressed driveway curb/aprons must be constructed in strict compliance with the standards and specifications of Commonwealth of Pennsylvania, Department of Transportation, Publication 408, as amended, Commonwealth of Pennsylvania, Department of Transportation, Publication 72M, Section RC-67, applicable American with Disabilities Act (ADA) regulations and as further depicted and set forth in Exhibits 1-15.

#### **Section 5. Special provisions; liability of property owner or their agent.**

- A. Where technically feasible, sidewalk, curb, depressed curb ramps and depressed driveway curb/aprons may be poured monolithically upon approval of the Borough Manager, Code Enforcement Officer, or their designee.
- B. Depressed curb ramps (handicap ramps) – When constructing new curbing and sidewalk at a street intersection or when reconstructing both curbing and sidewalk at a street intersection, depressed curb ramps shall be provided for in accordance with the Federal Highway Safety Act, as amended. The depressed curb ramps shall be installed in accordance with the latest design standards of the Pennsylvania Department of Transportation.
- C. It shall be the duty of every property owner or their agent who is grading, constructing, draining, paving or reconstructing the sidewalk, curb, depressed curb ramps and depressed driveway curb/apron, to maintain adequate guards, barriers and lights to prevent accidents, and such owner or their agent shall assume all risks and liability for all damages by reason of such work, and by reason of any failure to properly secure such area.
- D. Whenever any obstruction is made by either excavation or otherwise, under or across any part of any sidewalk for any purpose whatever, a safe and convenient passage shall be provided around or over the same for public travel, and the watercourses and drainage kept open for the free passage of surface waters.

#### **Section 6. Authority of Borough to do work; Emergency repairs.**

- A. In addition to the remedies vested herein to make repairs to sidewalks, the Borough shall have power to make emergency repairs to any sidewalks thereon where, in the opinion of the Borough Manager, Code Enforcement Officer and/or Borough Engineer, or their designee lawfully having charge of sidewalk repairs, determine a dangerous condition exists. Before any such repairs are made, a notice to make the necessary repairs shall be served upon the owner of record for said property, with notice providing the owner a timeframe to complete the required repairs. If the owner cannot be served within the County, the notice may be served by posting the same upon such premises.
- B. Should the property owner fail to complete the required repairs within the timeframe set forth in the notice, the Borough shall perform the corrective actions necessary to complete the required repairs. Upon completion of said work, the cost thereof, plus 10% additional for administration, together with all other applicable charges and expenses, shall be a charge against the owner of the property and a lien shall be placed against the property.

## **Section 7. Exceptions to curbing and sidewalk requirements.**

All sidewalk, curb, depressed curb ramps and depressed driveway curb/apron shall be installed in accordance with the requirements of the Ordinance. In the event that any property owner would desire to have an exception to these regulations, the property owner must appeal in writing to Borough Council listing the section of this article for which he/she wishes to have an exception and stating the reasons for the exception. Any exception to the regulations must be approved by the majority of Borough Council at a public Council meeting.

## **Section 8. Failure to comply and penalty provisions.**

- A. If any property owner fails to comply with any and all provisions of this Ordinance and/or fails to either construct new sidewalk, curb, depressed curb ramps and depressed driveway curb/apron, or any of these, or if any property owner fails to reconstruct or repair existing sidewalk, curb, depressed curb ramps and depressed driveway curb/apron, or any of these, with concrete, as specified elsewhere herein, within the timeframe set forth in the written notice from the Borough Manager, Code Enforcement Officer or their designees, or fails to notify the Borough of a pending sale and/or transfer of ownership in the property so that the Borough can inspect said sidewalk for compliance, and/or fails to make any or all repairs required pursuant to said inspection prior to sale and/or transfer of ownership of the real estate, he/she shall be guilty of a violation of this Ordinance.
- B. Any person or property owner violating any of the provisions of this Ordinance shall, upon conviction in a summary proceeding before a District Magistrate, be sentenced to pay a fine of not less than \$100.00 and no more than \$1,000.00 and costs of prosecution and, in default of payment of such fine and costs, to incarceration in the County prison for not more than 30 days. Each day that a violation of this Ordinance continues shall constitute a separate offence.

## **Section 9. Repealer**

Any Ordinance or part of an Ordinance conflicting with the provisions of this Ordinance shall be and the same is hereby repealed to the extent of such conflict; specifically repealing Ordinances:

#96, enacted  
#255, enacted  
#297, enacted  
#583, enacted  
#610, enacted  
#664, enacted  
#762, enacted  
#778, enacted

## **Section 10. Severability**

If any section, sub-section, provision, regulation, limitation, restriction, sentence, clause phrase or word in this Ordinance is declared by any reason to be illegal, unconstitutional, or invalid by any court of competent jurisdiction, such decision shall not affect or impair the validity of this Ordinance as a whole, or any other section, sub-section, provision, regulation, limitation, restriction, sentence, clause, phrase, word or remaining portion of this Ordinance. Borough Council hereby declares that it would have adopted this Ordinance and each section, sub-section, phrase and word thereof, irrespective of the fact that any one or more of the sections, sub-sections, provisions, regulations, limitations, restrictions, sentences, clauses, phrases or words may be declared illegal, unconstitutional or invalid.

**Section 11. Effective Date**

This Ordinance shall take effect immediately upon its adoption.

ORDAINED AND ENACTED into an Ordinance this 9<sup>th</sup> day of March, 2020.

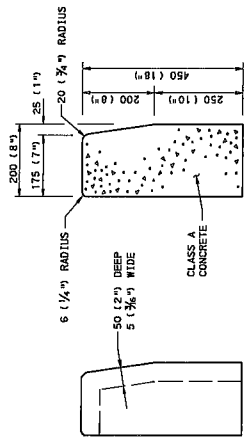
Borough Council of the Borough of Bangor

BY: James W Kresge  
James Kresge, President

ATTEST: Janelle Hauff  
Janelle Hauff, Secretary

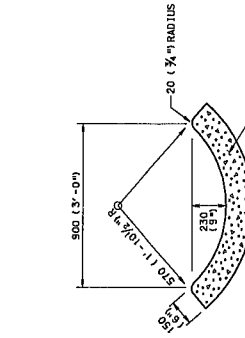
APPROVED by the Mayor this 13 day of March, 2020.

BY: BKA  
Brooke Kerzner, Mayor



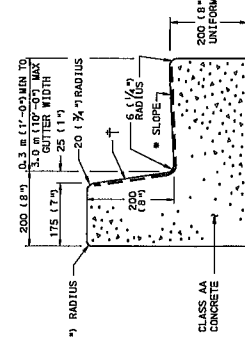
DETAIL A  
CONTRACTION JOINT

TYPICAL  
CROSS SECTION



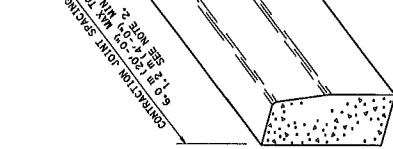
DETAIL B  
CONTRACTION JOINT

TYPICAL  
CROSS SECTION

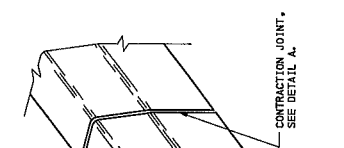


DETAIL C  
CONTRACTION JOINT

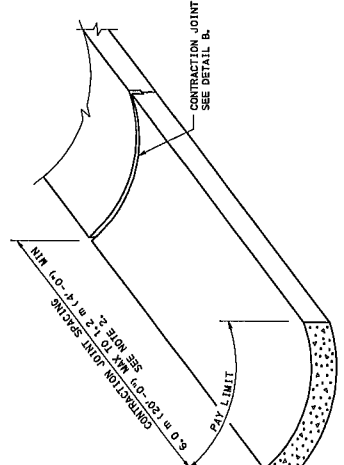
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CROSS SECTION



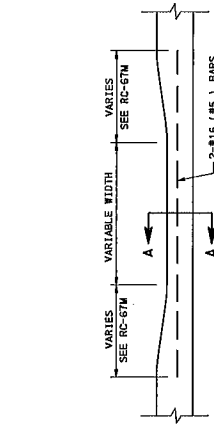
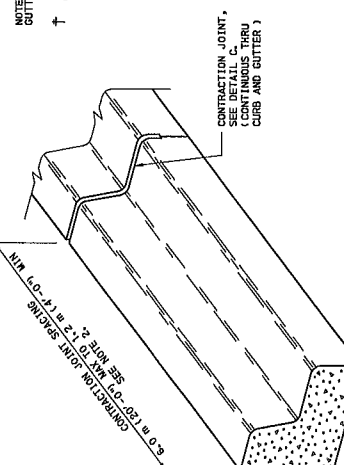
PLAIN CEMENT CONCRETE CURB



PLAIN CEMENT CONCRETE GUTTER

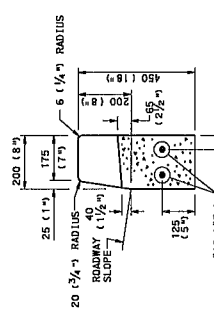


PLAIN CEMENT CONCRETE CURB GUTTER



ELEVATION VIEW

DEPRESSED CURB FOR DRIVEWAYS



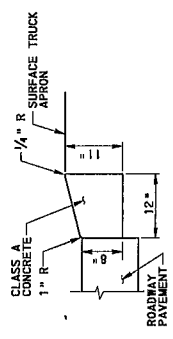
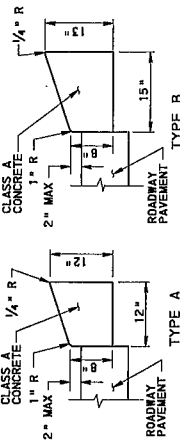
SECTION A-A

NOTES

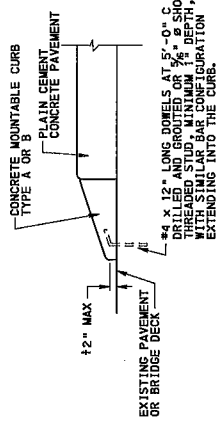
1. PROVIDE MATERIALS AND CONSTRUCTION DETAILS THE SAME AS FOR PLAIN CEMENT CONCRETE CURBS AND DEPRESSED CURBS, EXCEPT FOR THE CURB AND GUTTER. SEE SECTION 641 FOR PLAIN CEMENT CONCRETE CURB GUTTER.
2. SPACE CONTRACTION JOINTS IN UNIFORM LENGTHS OR SECTIONS.
3. PLACE 20 (3/4 inch) THICK PREMOULDED EXPANSION JOINT MATERIAL AT ALL CONTRACTION JOINTS. THE MATERIAL SHALL BE ADJACENT TO CURB OR TO CONFORM TO CROSS SECTIONAL AREA OF CURB.
4. TOP SURFACE OF PLAIN CEMENT CONCRETE CURB SLOPED TO BE TYPICAL AT END OF STRUCTURE.
5. WHERE CURBS ARE INSTALLED ADJACENT TO PARKING LANES A 150 (6 inch) HIGH CURB CAN BE UTILIZED WITH APPROVAL FROM THE LOCAL MUNICIPALITY.
6. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. U.S. CUSTOMARY UNITS IN ( ) PARENTHESES.

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF DESIGN

CURBS AND GUTTERS

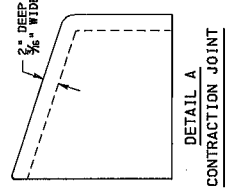


ROUNDABOUT TRUCK APRON CURB  
CONCRETE MOUNTABLE CURBS

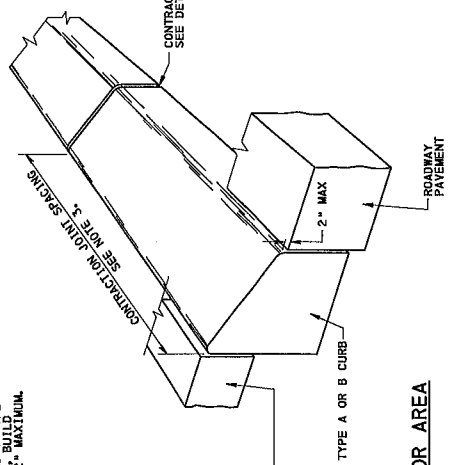


CONCRETE MOUNTABLE CURB ON EXISTING  
CONCRETE PAVEMENT AND BRIDGE DECKS

† PLANS MAY PROVIDE FOR A DEEPER FACE AT CURBS WHEN AN OVERMAN IS PLACED ON THE EXISTING PAVEMENT. HOWEVER, BUILD EXPOSED FINAL FACE OF CURB AT 2" MAXIMUM.



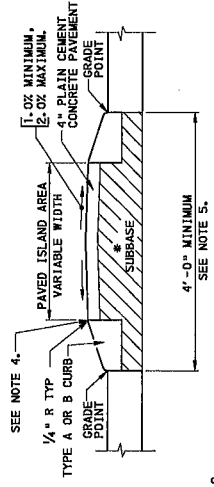
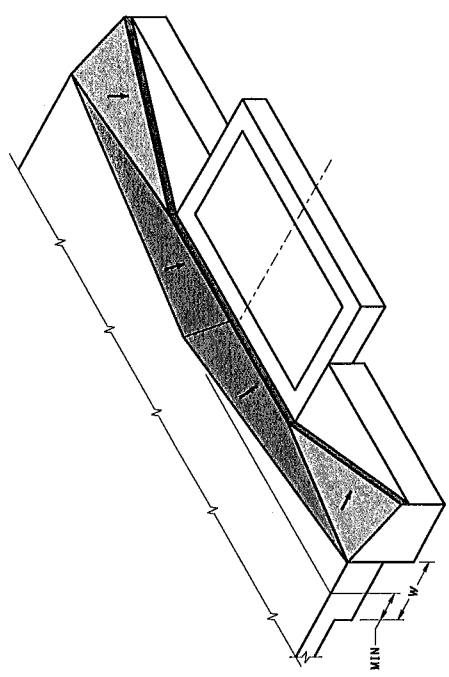
DETAIL A  
CONTRACTION JOINT



TYPICAL DIVISOR AREA

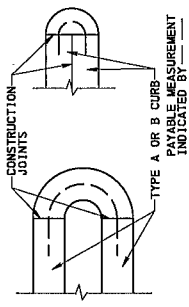
NOTES

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 408, SECTION 633.
2. INSTALL TYPE M INLET WITH CONCRETE MOUNTABLE CURBS AND LOCATE INLET AS SHOWN ON THE DRAWINGS. MAKE THE BACKSLOPE TRANSFERABLE IN THE AREA OF THE INLET AS INDICATED.
3. SPACE CONTRACTION JOINTS TO ALIGN WITH ADJACENT PAVEMENT SPECIFIED IN PUBLICATION 408, SECTION 501.31.D.
4. PLACE PREMOULDED EXPANSION JOINT FILLER MATERIAL 1/2" THICK OR POLYSTYRENE BOND BREAKER 1/4" THICK ADJACENT TO NEW OR EXISTING CURBS. PLAIN CEMENT CONCRETE PAVEMENTS OR ISLANDS WORK DAY. CUT MATERIAL TO CONFORM TO AREA ADJACENT TO THE CURB OR TO CONFORM TO CROSS SECTIONAL AREA OF CURB. SEAL ALL JOINTS AS SPECIFIED IN PUBLICATION 408, SECTION 705.4.
5. PROVIDE ELONGATED ISLANDS NOT LESS THAN 4'-0" WIDE AND SEVERELY LIMITED.



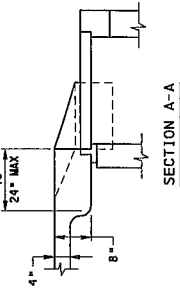
\* INCIDENTAL TO CONCRETE MOUNTABLE CURB.

TYPICAL CONSTRUCTION

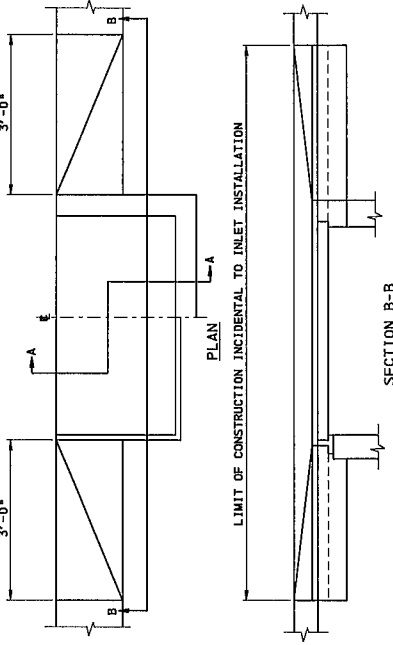


END DETAILS

CONSTRUCTION JOINTS  
PAYABLE MEASUREMENT INDICATED BY



SECTION A-A



PLAN

SECTION B-B

LIMIT OF CONSTRUCTION INCIDENTAL TO INLET INSTALLATION

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PROJECT DELIVERY

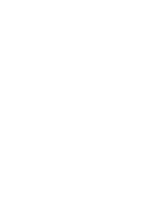
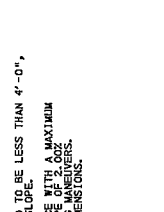
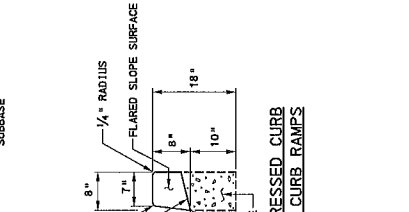
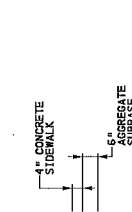
CONCRETE MOUNTABLE CURBS

TREATMENT FOR CONCRETE MOUNTABLE CURBS AT INLETS

RECOMMENDED DEC. 17, 2019  
9/10/2019  
RECOMMENDED DEC. 17, 2019  
SHT. 1 OF 1  
RC-65M

**NOTES**

1. PROVIDE MATERIALS AND CONSTRUCTION MEETING THE REQUIREMENTS OF PUBLICATION 409, SECTIONS 350, 409, 630, 676, 684, AND 685.
2. PROVIDE EXPANSION JOINT MATERIAL 3/4" THICK WHERE CURB RAMP JOINS ANY FLASD PAVEMENT, SIDEWALK OR STRUCTURE WITH THE TOP OF JOINT FILLER FLUSH WITH ADJACENT CONCRETE SURFACE.
3. CONSTRUCT CURB RAMPS WITH A MINIMUM 4'-0" X 4'-0" CLEAR SPACE BEYOND THE CURB FLARE WITHIN THE CROSSWALK DETAILS.
4. SEAL JOINTS WITH AN APPROVED SEALING MATERIAL.
5. PROVIDE SLIP RESISTANT TEXTURE ON CURB RAMP BY CURSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP. EXTEND TEXTURE THE FULL WIDTH AND LENGTH OF THE CURB RAMP INCLUDING SIDE FLARES.
6. MODIFY CONSTRUCTION DETAILS TO ADAPT DIMENSIONS TO EXISTING CURB HEIGHTS WHERE THE CURB IS LESS THAN THE STANDARD 8" HEIGHT.
7. CURB RAMP AND SIDE FLARE LENGTHS ARE VARIABLE AND BASED ON CURB HEIGHT AND THE SIDEWALK SLOPE. TO AVOID CHASING GRADE INDEFINITELY WHEN TRAVERSING THE HEIGHT OF CURB, RAMP LENGTH NOT TO EXCEED 15'-0". ADJUST RAMP SLOPE AS NECESSARY TO PROVIDE ACCESS TO THE PEDESTRIAN ACCESS ROUTE THAT IS NOT USED BY THE PEDESTRIAN FOR ACCESS.
8. NON-WALK AREAS ARE UNSTRUCTURED OR GRASS/NOV-PAVED AREA ADJACENT TO THE PEDESTRIAN ACCESS ROUTE. PEDESTRIAN ACCESS ROUTES FOR ALL TRAVEL PROJECTS. PROVIDE ACCESS TO EXISTING PEDESTRIAN PUSHBUTTONS TO THE MAXIMUM EXTENT FEASIBLE. INSTALL PEDESTRIAN PUSHBUTTON STUB POLES, WHERE APPLICABLE, SO AS NOT TO OBSCURE PEDESTRIAN ORIENTATIONS.
9. SEE 10-8003 FOR ADDITIONAL PEDESTRIAN PUSHBUTTON DETAILS NOT SHOWN.
10. ALL DETAIL MARKING SURFACES TRIMMED DOWN ON A SQUARE GRID AND FINISHED WITH A FINISH TO MATCH ROADWAY SURFACE.
11. PROVIDE DETECTABLE MARKING SURFACE ON 2" MAXIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS FULL WIDTH OF RAMP AT THE GRADE BREAK NEAR STREET EDGE. PROVIDE DETAIL MARKING SURFACE ON 2" MAXIMUM IN THE DIRECTION OF PEDESTRIAN TRAVEL ACROSS FULL WIDTH OF RAMP ADJACENT WALKWAY SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT FOR THE FULL WIDTH OF RAMP.
12. FOR NEW CONSTRUCTION, DO NOT EXCEED 2.00% CROSS SLOPE ON THE CURB RAMP OR PEDESTRIAN ACCESS ROUTE.
13. FOR NEW CONSTRUCTION AND ALTERATIONS, CONSTRUCT CURB RAMP AND FLARE SLOPES WITH THE FLATTEST SLOPE POSSIBLE. THE SLOPES INDICATED IN THE DETAILS SHOW THE MAX SLOPE ALLOWABLE. SLOPES THAT ARE SHARPER THAN INDICATED IN THE DETAILS, ON CONTRACT DOCUMENTS AS APPLICABLE, WILL NOT BE ACCEPTED AND WILL BE RECONSTRUCTED.
14. CONSTRUCT SIDEWALKS AT A LONGITUDINAL SLOPE NOT TO EXCEED 5.00% FOR ROADWAY PROFILE SLOPES THAT EXCEED 5.00%. A CONSTRUCT PARALLEL SIDEWALKS ADJACENT TO ROADWAY AT A LONGITUDINAL SLOPE NOT TO EXCEED 5.00%.
15. THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJACENT ROAD SURFACE IS NOT TO EXCEED AN ALGEBRAIC DIFFERENCE OF 19.33% (THE CENTER SLOPE OF THE BUTTER OR ROAD AT THE FOOT OF A CURB RAMP, TURNING SPACE OR BLENDED TRANSITION IS NOT TO EXCEED 5.00%. SEE SHEET 8 FOR DETAILS).
16. THE CONSTRUCTION STANDARDS DEPICTED ARE MOST APPROPRIATE FOR NEW CONSTRUCTION. ALL CONSTRUCTION MUST MEET THE STANDARDS CONTAINED HEREIN UNLESS OTHERWISE NOTED OR INDICATED.
17. ALL CURB RAMPS REQUIRE A TURNING SPACE OF 4'-0" MINIMUM. THE TURNING SPACE OF THE RAMP IS NOT TO BE LESS THAN 4'-0".
18. CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% FOR ALL TRAVEL PROJECTS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.
19. SIDEWALK WIDTH MAY BE REDUCED TO 4'-0", WHEN PASSING AREAS 5'-0" X 5'-0" ARE PROVIDED EVERY 200'.
20. PRE-IDENT MARKING IS REQUIRED BY THE OUTSIDE EDGE OF THE SIDEWALK. THE MARKING IS TO BE WHITE AT THE POINT OF THE CURB RAMP. THE MARKING IS TO BE WHITE AT THE POINT OF THE CURB RAMP. THE MARKING IS TO BE WHITE AT THE POINT OF THE CURB RAMP.
21. CONSTRUCT DEPRESSIONED CURB FOR CURB RAMPS FLUSH TO ADJACENT ROADWAY. GRADE OF ROAD ELEVATIONS AT THE POINT OF THE CURB RAMP TO BE MAINTAINED TO PREVENT FLOODING. FOR LEVEL TURNING SPACES, DEPRESSIONED CURBS AND ROADWAYS, REMOVE EXCESS JOINT SEALER AND COVER THE SEALED AREA WITH A LIGHT APPLICATION OF DRY SAND.
22. CHECK WALLS ARE PERMITTED WHEN ADJACENT TO NON-WALK AREAS OR SIDEWALK AREAS THAT DO NOT INTERFERE WITH PEDESTRIAN PATH. DO NOT INSTALL CHECK WALLS THAT INTERFERE WITH THE PEDESTRIAN PATH.
23. CONSTRUCT TOP OF PLAIN CEMENT CONCRETE DEPRESSIONED CURB TO BE FLUSH WITH ADJACENT SURFACES (RAMPS, SIDEWALKS, FLARES).
24. FOR CURB RAMPS THAT LEAD TO A SINGLE CROSSWALK, THE RAMP (EXCLUDING FLARES) TO BE FULLY INSIDE OF MARKED CROSSWALK LINES. SEE SHEET 7 FOR DETAILS.
25. A 4'-0" MAXIMUM DIGITAL DISPLAY LEVEL WILL BE USED TO VERIFY THE SLOPES OF CURB RAMPS AND SIDEWALKS.
26. INSTALL DUMMY JOINTS WHERE RAMPS, TURNING SPACES, FLARES, AND SIDEWALKS ADJUT.
27. CONSTRUCT DEPRESSIONED CURB SLOPE TO MATCH ROADWAY PROFILE AND HAVE A FLUSH CONNECTION TRANSITION TO ROADWAY PROFILE. DO NOT EXCEED 5.00% PER 1'-0" CROSS SLOPE RATE OF CHANGE WHEN TRANSITIONING TO ROADWAY PROFILE.
28. DO NOT SCORE OR MAKE GROOVES ON SLOPED SURFACES. LINES SHOWN ON DETAILS ARE FOR ILLUSTRATION ONLY. SEE NOTE 5.
29. THE DEPRESSIONED CURB MAY BE PLACED MONOLITHICALLY WITH OTHER CEMENT CONCRETE SIDEWALK.



PERCENT SLOPE	EQUIVALENT SLOPE
10.00%	10:1
8.33%	12:1
7.14%	14:1
5.00%	20:1
1.00%	100:1

EQUIVALENT SLOPES

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF TRANSPORTATION**  
 BUREAU OF PROJECT DELIVERY

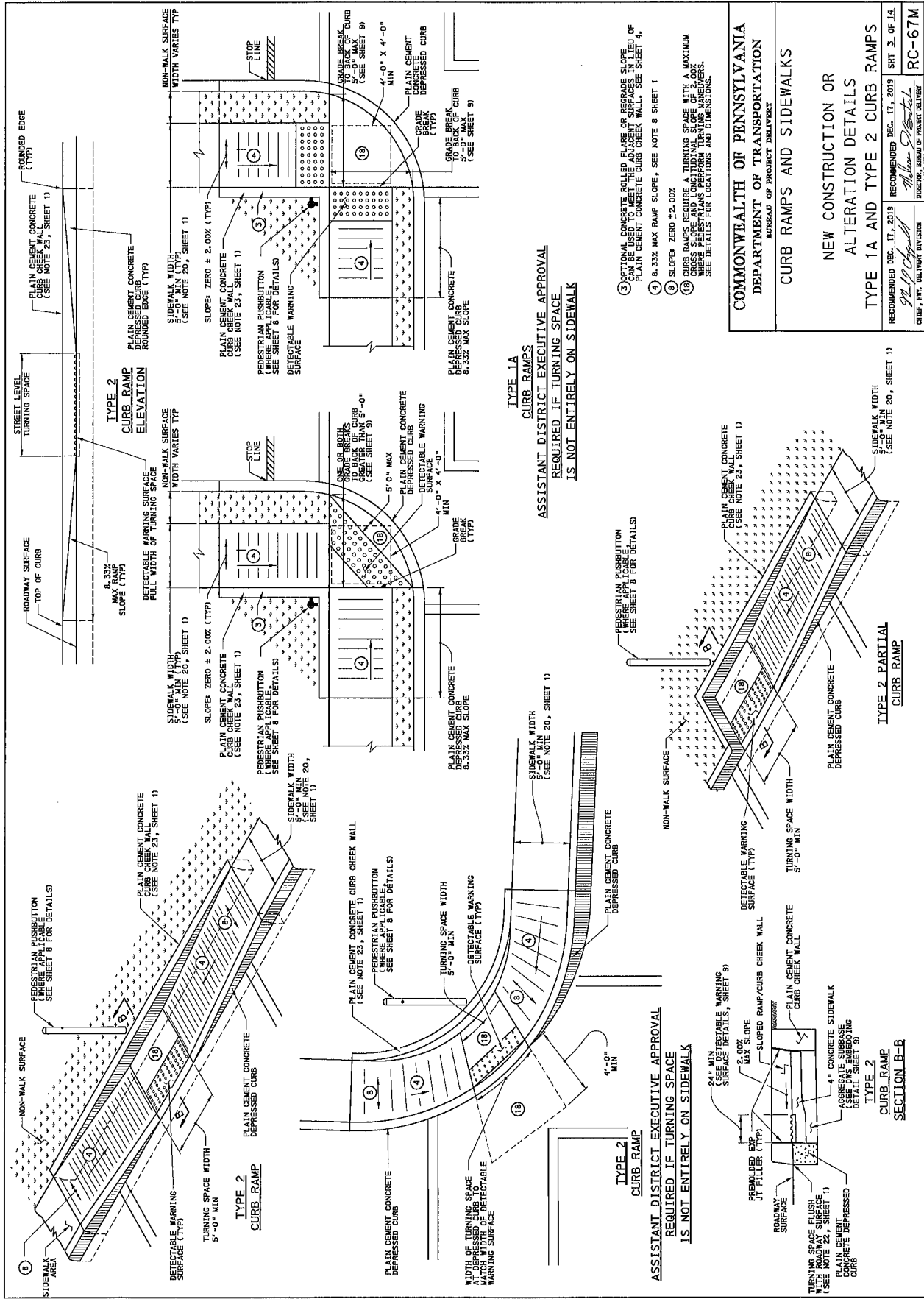
**CURB RAMPS AND SIDEWALKS**  
 NEW CONSTRUCTION OR ALTERATION DETAILS  
 TYPE 1 CURB RAMPS AND TYPICAL SECTIONS

RECOMMENDED DEC. 17, 2019  
 SHEET 1 OF 14  
 RC-67M

9711 Chappell  
 CHIEF, INT. DELIVERY DIVISION

RECOMMENDED DEC. 17, 2019  
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**TYPE 1A  
CURB RAMP  
ASSISTANT DISTRICT EXECUTIVE APPROVAL  
REQUIRED IF TURNING SPACE  
IS NOT ENTIRELY ON SIDEWALK**

- ③ OPTIONAL CONCRETE ROLLED PLANE OR REGRADE SLOPE WITH PLAIN CEMENT CONCRETE CURB CHEEK WALL. SEE SHEET 4.
- ④ 0.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1
- ⑥ SLOPE: ZERO ±2.00%
- ⑧ CURB RAMP REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS PEDESTRIAN PERFORATION CURB CHEEK WALL. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.

**TYPE 2  
CURB RAMP  
ASSISTANT DISTRICT EXECUTIVE APPROVAL  
REQUIRED IF TURNING SPACE  
IS NOT ENTIRELY ON SIDEWALK**

- ② 24" MIN (SEE DETECTABLE WARNING SURFACE DETAILS, SHEET 9)
- ③ SLOPED RAMP/CURB CHEEK WALL
- ④ CONCRETE SIDEWALK
- ⑤ AGGREGATE SUBBASE (SEE DIMS EMERGING DETAIL SHEET 9)
- ⑥ PLAIN CEMENT CONCRETE DEPRESSURED CURB
- ⑦ PLAIN CEMENT CONCRETE CURB CHEEK WALL
- ⑧ PLAIN CEMENT CONCRETE DEPRESSURED CURB
- ⑨ PLAIN CEMENT CONCRETE DEPRESSURED CURB
- ⑩ PLAIN CEMENT CONCRETE DEPRESSURED CURB
- ⑪ PLAIN CEMENT CONCRETE DEPRESSURED CURB
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**DEPARTMENT OF TRANSPORTATION**  
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**CURB RAMPS AND SIDEWALKS**

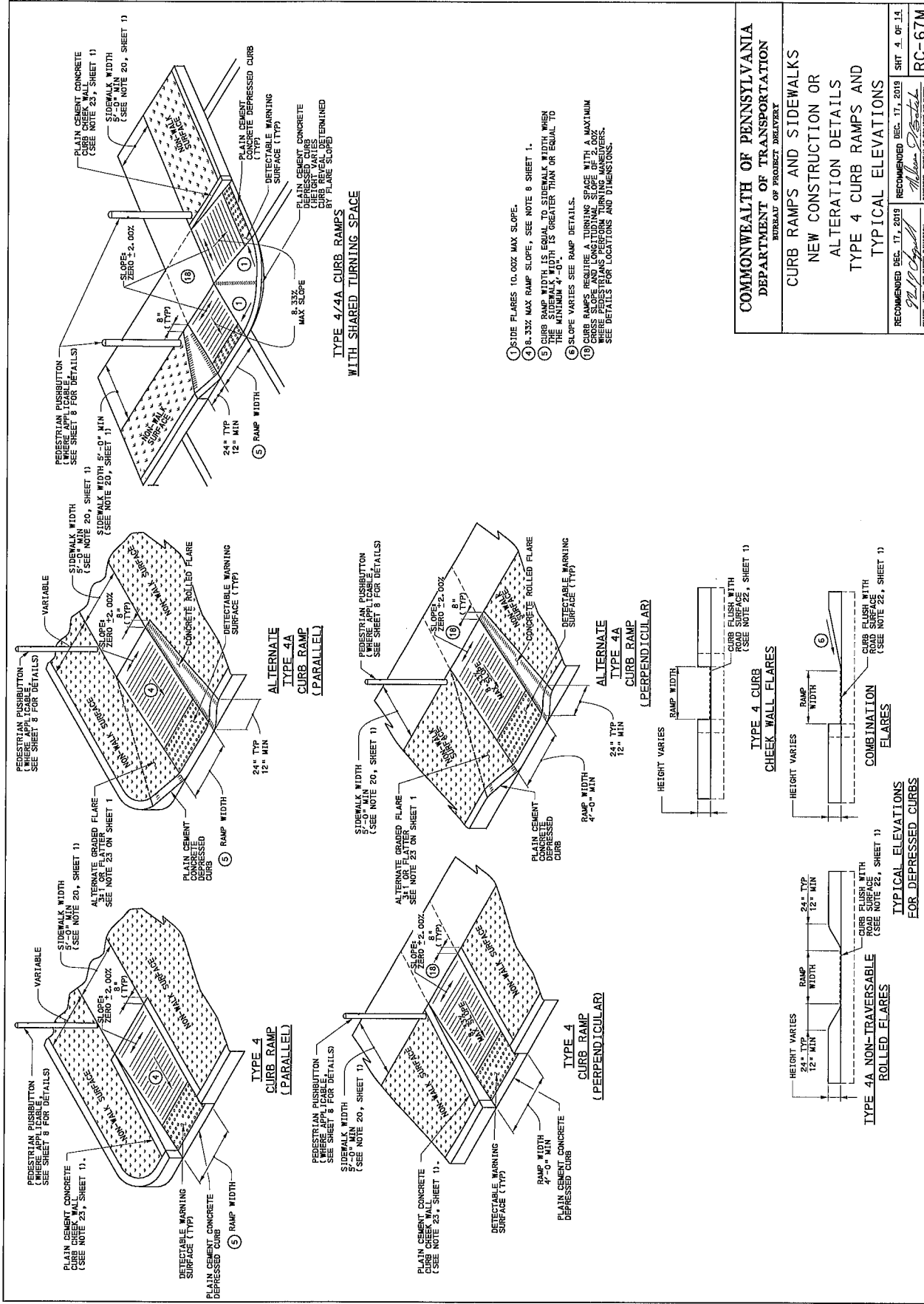
NEW CONSTRUCTION OR ALTERATION DETAILS  
 TYPE 1A AND TYPE 2 CURB RAMPS

RECOMMENDED DEC. 17, 2019 | SHEET 3 OF 14  
*J.P. [Signature]*  
 CHIEF, INT. DELIVERY DIVISION

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*M. [Signature]*  
 DIRECTOR, BUREAU OF PROJECT DELIVERY

**RC-67M**

**TYPE 2 PARTIAL  
CURB RAMP**



**TYPE 4/4A CURB RAMP WITH SHARED TURNING SPACE**

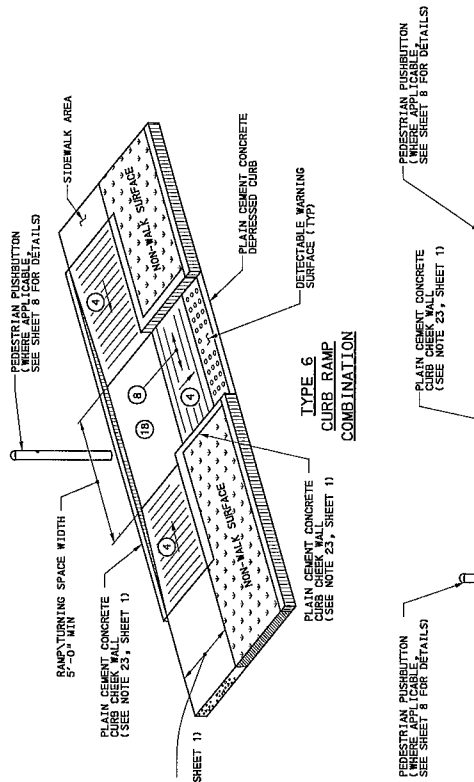
- 1) SIDE FLARES 10.00% MAX SLOPE.
- 4) 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1.
- 5) CURB RAMP WIDTH IS EQUAL TO DEPRESSURE WIDTH, WHEN THE SIDEWALK WIDTH IS GREATER THAN OR EQUAL TO THE MINIMUM 4'-0".
- 6) SLOPE VARIES SEE RAMP DETAILS.
- 8) CURB RAMP REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% FOR MINIMUM TURNING DIMENSIONS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.

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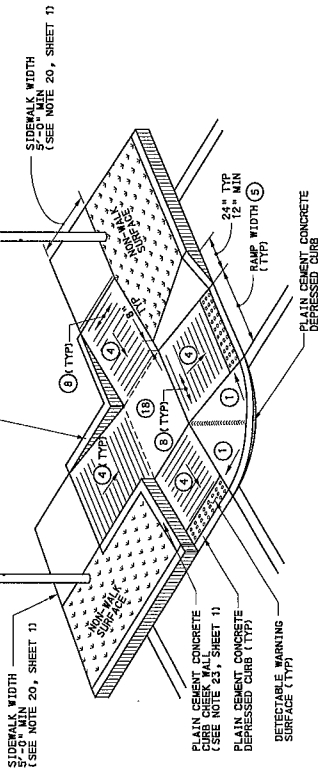
**CURB RAMPS AND SIDEWALKS**  
 NEW CONSTRUCTION OR  
 ALTERATION DETAILS  
 TYPE 4 CURB RAMPS AND  
 TYPICAL ELEVATIONS

RECOMMENDED DEC. 17, 2019  
 RECOMMENDED DEC. 17, 2019  
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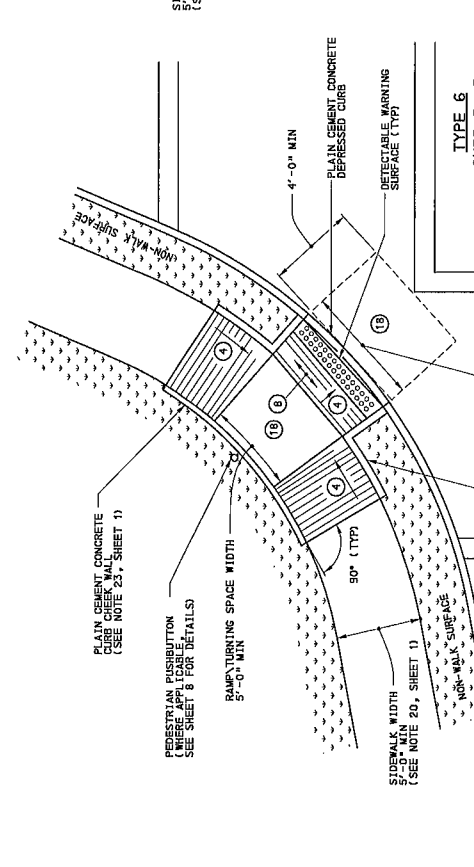
*M. J. O'Connell*  
 DIRECTOR, BUREAU OF PROJECT DELIVERY



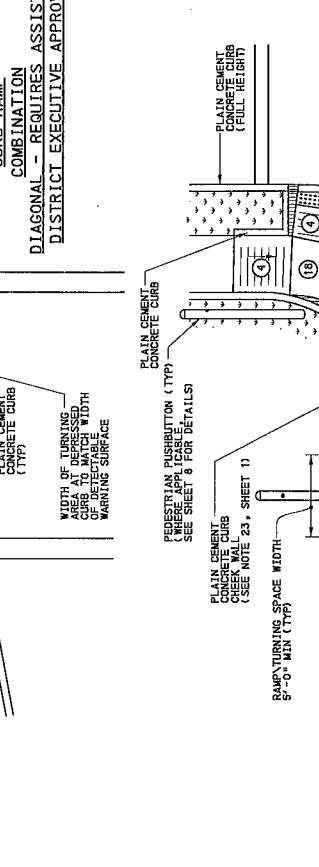
**TYPE 6 CURB RAMP COMBINATION**  
 DIAGONAL - REQUIRES ASSISTANT DISTRICT EXECUTIVE APPROVAL



**TYPE 6 CURB RAMP WITH SHARED TURNING SPACE**



**TYPE 6 CURB RAMP COMBINATION**



**TYPE 6 CURB RAMP COMBINATION**

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**DEPARTMENT OF TRANSPORTATION**  
 BUREAU OF PROJECT DELIVERY

**CURB RAMPS AND SIDEWALKS**

**NEW CONSTRUCTION OR ALTERATION DETAILS**  
**TYPE 6 CURB RAMPS**

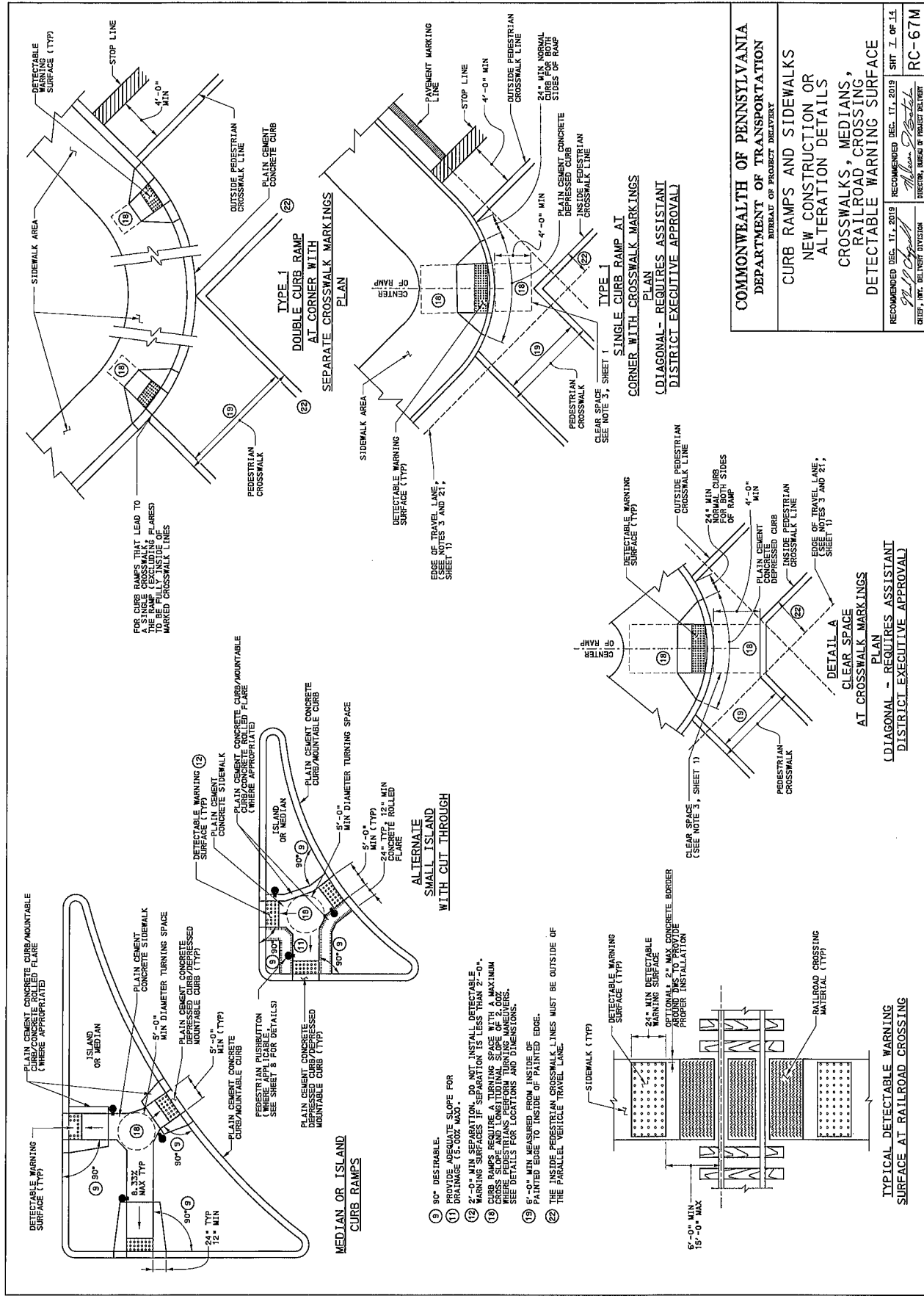
RECOMMENDED DEC. 17, 2019  
*9217 C. O'Connell*  
 CHIEF, INT. DELIVERY DIVISION

RECOMMENDED DEC. 17, 2019  
*William J. Breda*  
 DIRECTOR, BUREAU OF PROJECT DELIVERY

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 RC-67M

- ① SIDE FLARES 10.00% MAX SLOPE.
- ② 1:33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1.
- ③ CURB RAMP WIDTH IS EQUAL TO SIDEWALK WIDTH WHEN THE SIDEWALK WIDTH IS GREATER THAN OR EQUAL TO 4'-0".
- ④ SLOPE ZERO ± 2.00%.
- ⑤ CURB RAMPS REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE FEASIBLE FOR TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.





- 8 PROVIDE ADEQUATE SLOPE FOR DRAINAGE (5.00% MAX).
- 9 8'-0" MIN SEPARATION. DO NOT INSTALL DETECTABLE CURB RAMP OVER A TRAVEL LANE.
- 10 CURB RAMP REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% (SEE DETAILS FOR LOCATIONS AND DIMENSIONS).
- 11 8'-0" MIN TURNING SPACE FOR 90° TURNING.
- 12 8'-0" MIN TURNING SPACE FOR 90° TURNING.
- 13 THE INSIDE PEDESTRIAN TRAVEL LINES MUST BE OUTSIDE OF THE PARALLEL VEHICLE TRAVEL LANE.

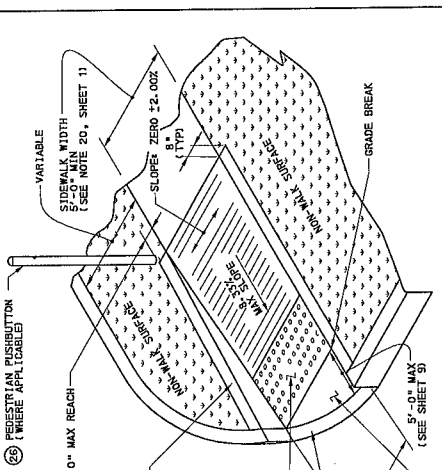
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 DEPARTMENT OF TRANSPORTATION  
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**CURB RAMPS AND SIDEWALKS**  
 NEW CONSTRUCTION OR ALTERATION DETAILS  
 CROSSWALKS, MEDIANS, RAILROAD CROSSING  
 DETECTABLE WARNING SURFACE

RECOMMENDED REG. 17, 2019  
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 CHIEF, INT. DELIVERY DIVISION

RECOMMENDED REG. 17, 2019  
*M. J. Dwyer*  
 DIRECTOR, BUREAU OF PROJECT DELIVERY

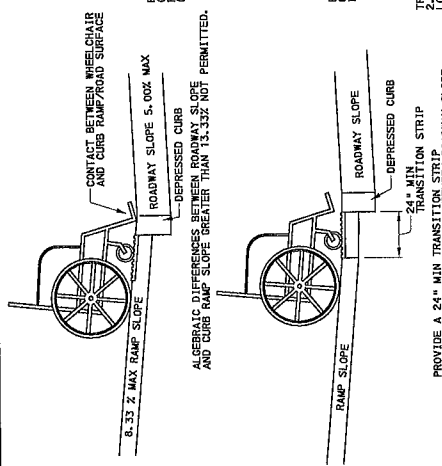
SHT. 1 OF 14  
 RC-67M



**TRIANGULAR LEVEL AREA FOR DIRECTIONAL RAMP ON CURB RETURNS**

PROVIDE A LEVEL TRIANGULAR AREA WHEN DIRECTIONAL RAMP IS BREAKED ON A CURB RETURN TO TRANSITION THE GRADE BREAK.

- ⑤ RAMP WIDTH IS EQUAL TO SIDEWALK WIDTH WHEN THE SIDEWALK WIDTH IS GREATER THAN OR EQUAL TO 4'-0\"/>
- ⑥ NEW CONSTRUCTION MUST COMPLY WITH RECOMMENDED LOCATIONS. FOR ALTERATION PROJECTS, LOCATE PEDESTRIAN PUSHBUTTONS TO THE MAXIMUM EXTENT FEASIBLE, AS FOLLOWS:
  - ADJACENT TO A LEVEL NON-SLIP SURFACE TO PROVIDE ACCESS FROM ROUTE TO THE RAMP.
  - WITHIN 5'-0\"/>
  - SIDEWALK OR PAVEMENT - 0\"/>
  - PARALLEL TO THE CROSSWALK TO BE USED.



PROVIDE A 24\"/>

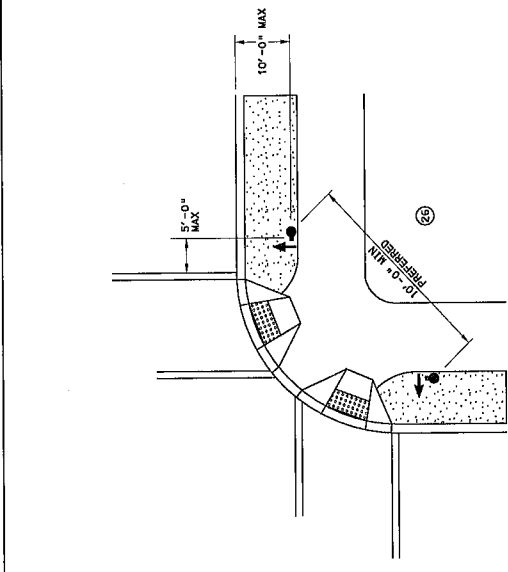
**LIMITATIONS**

CHANGE OF GRADE  
TRANSITION STRIP SLOPE NOT TO EXCEED 5.00%

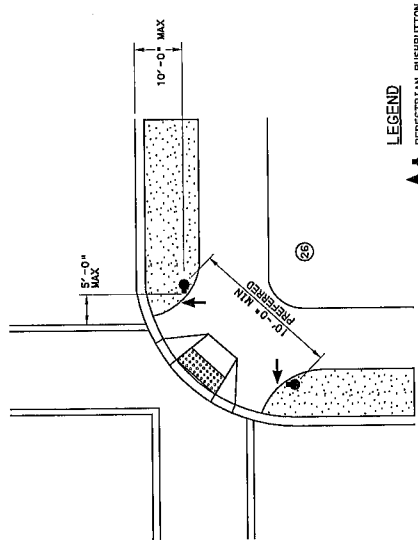


**RAMP CROSS SLOPE TRANSITION TO MATCH ROADWAY PROFILE SLOPE**

■ SLOPES SHOWN ARE FOR ILLUSTRATION ONLY.  
TRANSITION CURB RAMP CROSS SLOPE TO MATCH ROADWAY PROFILE SLOPE. USE 1\"/>



**RECOMMENDED PUSHBUTTON LOCATIONS**



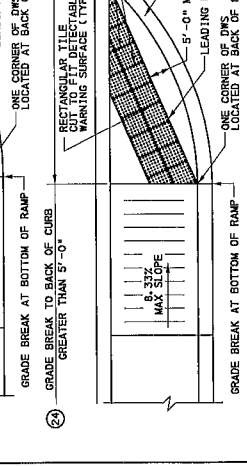
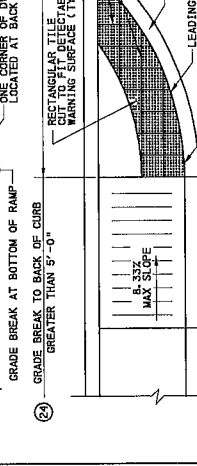
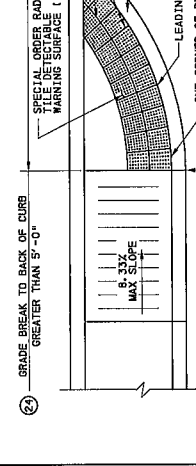
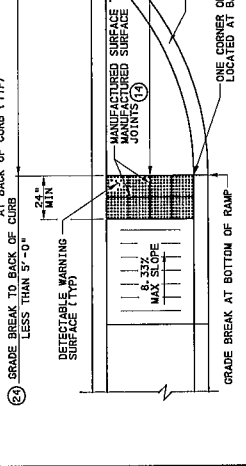
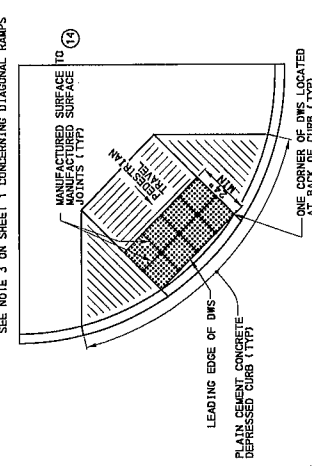
LEGEND  
↑ ● PEDESTRIAN PUSHBUTTON

**RECOMMENDED PUSHBUTTON LOCATIONS**

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**DEPARTMENT OF TRANSPORTATION**  
 BOARD OF PROJECT DELIVERY  
**CURB RAMPS AND SIDEWALKS**  
 NEW CONSTRUCTION OR ALTERATION DETAILS  
 PUSHBUTTONS, TRIANGULAR LEVEL AREA, CHANGE OF GRADE AND CROSS SLOPE TRANSITIONS

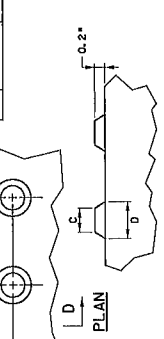
RECOMMENDED DEC. 17, 2019  
 STAFF, TRN, DELIVERY DIVISION  
 PROJECT DIVISION  
 DIRECTOR, BOARD OF PROJECT DELIVERY  
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SEE NOTE 3 ON SHEET 1 CONCERNING DIAGONAL RAMPS

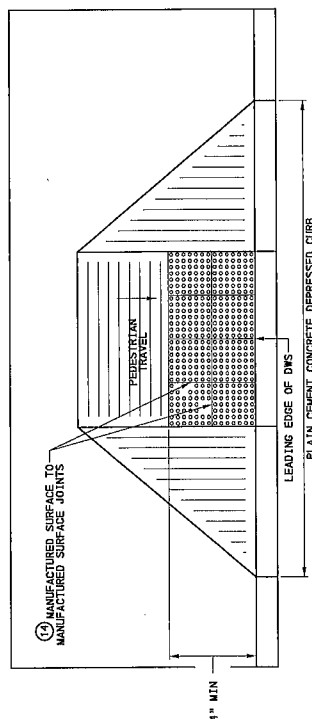


DETECTABLE WARNING SURFACE (DWS) ON CURVED SURFACES

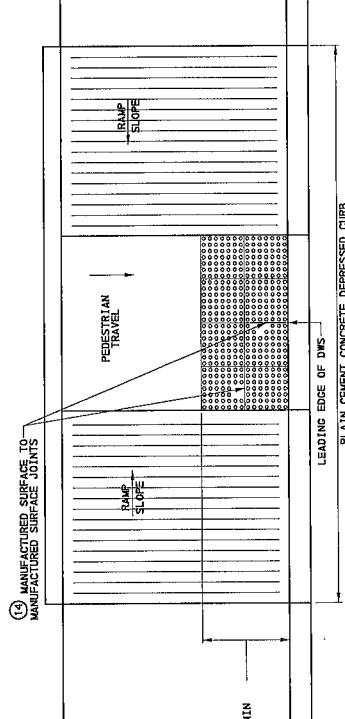
TRUNCATED DOME DIMENSIONS		
DIM	mm (Inch)	mm (Inch)
A	1.6"	2.4"
B	0.65"	1.5"
C	(13)	(13)
D	0.3"	1.4"



SECTION D-D  
DETECTABLE WARNING SURFACE (DWS) TRUNCATED DOME DETAILS

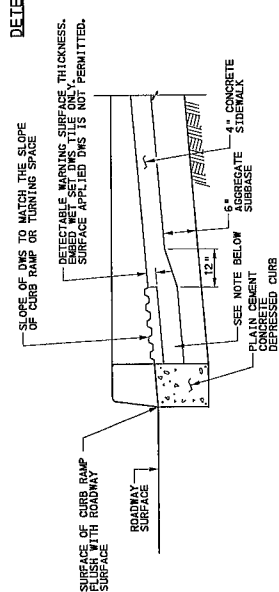


DETECTABLE WARNING SURFACE (DWS) ON TYPE 1 CURB RAMP



DETECTABLE WARNING SURFACE (DWS) ON TYPE 2 CURB RAMP

- (13) THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.
- (14) PLACE ADJACENT DWS TILES WITH MANUFACTURED SURFACE TO MANUFACTURED SURFACE CUT TILES ALONG THE PERIMETER ONLY.
- (24) LOCATE ONE CORNER OF THE DWS AT THE BACK OF CURB. LOCATIONS OF OTHER CORNERS MAY BE MADE THAN 5'-0" AWAY FROM THE BACK OF CURB.



NOTES:  
 1. SUBJECT NOTCH AS SHOWN TO PROVIDE FULL THICKNESS SIDEWALK UNDER DETECTABLE WARNING SURFACE.  
 2. MAX CONCRETE BORDER AROUND DWS TO PROVIDE PROPER INSTALLATION OF PEDESTRIAN SURFACE DISTRIBUTION ACCESS ARCS DETAIL TO BE SHOWN AT THE DETAIL.  
 DETECTABLE WARNING SURFACE EMBEDDING DETAIL

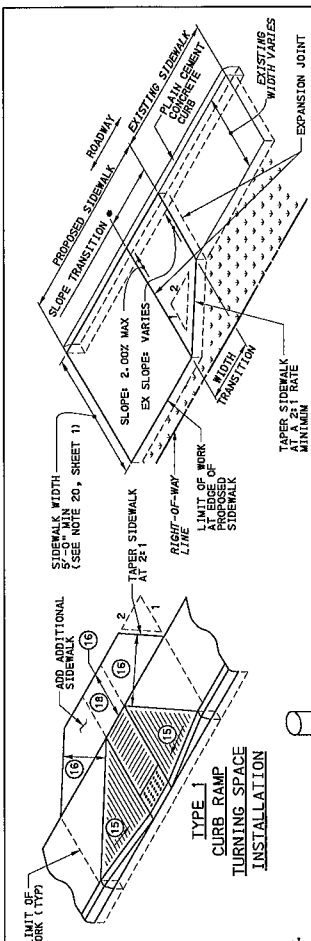
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CURB RAMPS AND SIDEWALKS

NEW CONSTRUCTION OR ALTERATION DETAILS  
 DETECTABLE WARNING SURFACE

RECOMMENDED DEC. 17, 2019 SHRT 3L OF 14  
 2/10/2020  
 M. J. [Signature]  
 PROJECT MANAGER

RC-67M



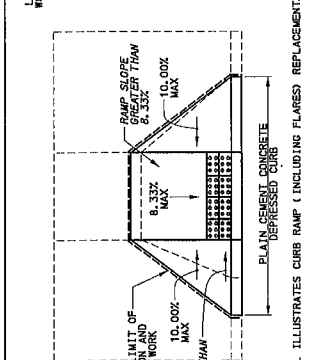
**TRANSITION TO EXISTING SIDEWALK DETAIL**

MINIMUM SLOPE TRANSITION LENGTH BASED ON THE DIFFERENCE OF PROPOSED SIDEWALK CROSS SLOPE AND EXISTING SIDEWALK CROSS SLOPE. MINIMUM LENGTH TO BE DETERMINED BY THE FOLLOWING FORMULA:  
 $\Delta X \text{ SLOPE} \times 0.5'$

THE MINIMUM WIDTH TRANSITION SHALL BE CALCULATED USING THE CHANGE IN WIDTH  $\times 2$ .

DEPENDS ON WHICH IS LONGEST, EITHER THE SLOPE TRANSITION OR WIDTH TRANSITION.

TRANSITION AREAS SERVE AS TEMPORARY CONNECTIONS TO THE REMAINING PORTION OF EXISTING SIDEWALKS. INCLUDE REMOVING THE TRANSITION AREA AND CONSTRUCTING A FULLY COMPLIANT SIDEWALK.



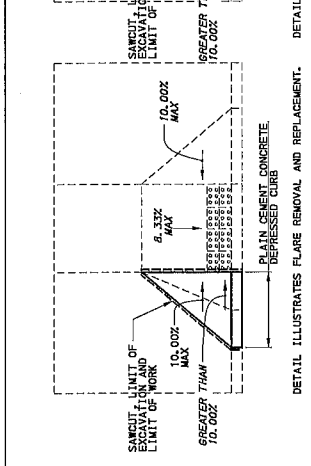
**TRANSITION TO EXISTING SIDEWALK DETAIL**

MINIMUM SLOPE TRANSITION LENGTH BASED ON THE DIFFERENCE OF PROPOSED SIDEWALK CROSS SLOPE AND EXISTING SIDEWALK CROSS SLOPE. MINIMUM LENGTH TO BE DETERMINED BY THE FOLLOWING FORMULA:  
 $\Delta X \text{ SLOPE} \times 0.5'$

THE MINIMUM WIDTH TRANSITION SHALL BE CALCULATED USING THE CHANGE IN WIDTH  $\times 2$ .

DEPENDS ON WHICH IS LONGEST, EITHER THE SLOPE TRANSITION OR WIDTH TRANSITION.

TRANSITION AREAS SERVE AS TEMPORARY CONNECTIONS TO THE REMAINING PORTION OF EXISTING SIDEWALKS. INCLUDE REMOVING THE TRANSITION AREA AND CONSTRUCTING A FULLY COMPLIANT SIDEWALK.



**SIDE FLARE RECONSTRUCTION**

DETAIL ILLUSTRATES FLARE REMOVAL AND REPLACEMENT.

**TOTAL RAMP RECONSTRUCTION**

DETAIL ILLUSTRATES CURB RAMP (INCLUDING FLARES) REPLACEMENT.

PLAIN CEMENT CONCRETE DEPRESSIONED CURB

RAMP SLOPE GREATER THAN 8.33% MAX

10.00% MAX

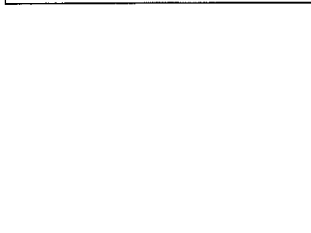
10.00% MAX

10.00% MAX

LIMIT OF WORK

SAWCUT + LIMIT OF EXCAVATION AND LIMIT OF WORK

PLAIN CEMENT CONCRETE DEPRESSIONED CURB

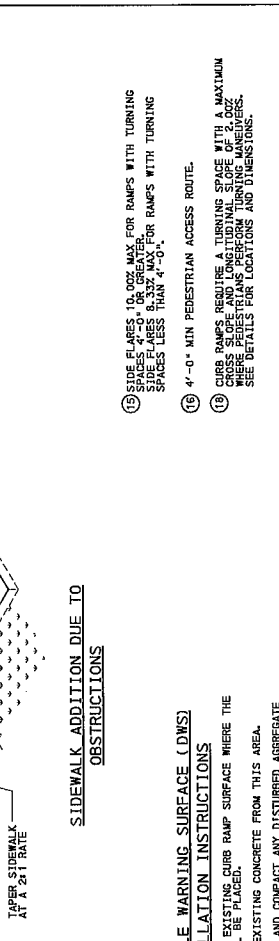


**TOTAL RAMP RECONSTRUCTION (RAMP TYPE CHANGE)**

DETAIL ILLUSTRATES A TYPE 1 EXISTING RAMP BEING REPLACED WITH A TYPE 2 RAMP. USE THIS DETAIL AS AN EXAMPLE TO REPLACE ANY RAMP WITH A DIFFERENT CURB RAMP TYPE.

PLAIN CEMENT CONCRETE DEPRESSIONED CURB

SAWCUT

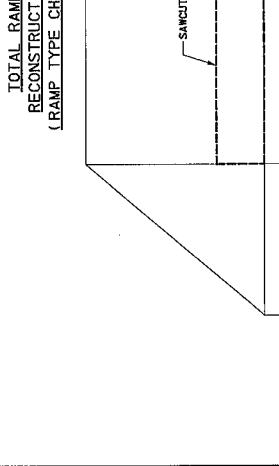


**DETECTABLE WARNING SURFACE (DWS) INSTALLATION DETAIL**

PLAIN CEMENT CONCRETE DEPRESSIONED CURB

SAWCUT

24" MIN

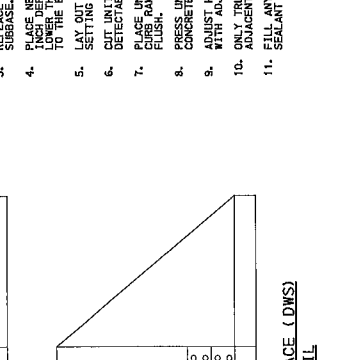


**DETECTABLE WARNING SURFACE (DWS) RECONSTRUCTION**

PLAIN CEMENT CONCRETE DEPRESSIONED CURB

SAWCUT

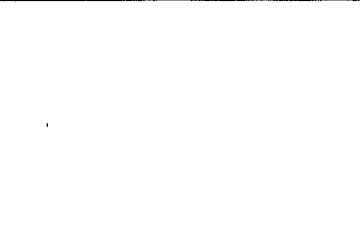
- DETECTABLE WARNING SURFACE (DWS) INSTALLATION INSTRUCTIONS**
1. SAW CUT EXISTING CURB RAMP SURFACE WHERE THE DWS WILL BE PLACED.
  2. REMOVE EXISTING CONCRETE FROM THIS AREA.
  3. SUBGRADE AND COMPACT ANY DISTURBED AGGREGATE.
  4. PLACE NEW CEMENT CONCRETE AND LEVEL TO A 4 INCH DEPTH SO THAT THE TOP OF THE CONCRETE IS LOWER THAN THE ADJACENT SIDEWALK MATERIAL TO THE BARS PARALLEL TO EACH UNIT PRIOR TO SETTING IN NEW CONCRETE.
  5. CUT UNITS AS NECESSARY ALONG PERIMETER OF DETECTABLE WARNING SURFACE.
  6. PLACE UNITS ACROSS THE ENTIRE WIDTH OF THE CURB RAMP SURFACE AND/OR WHERE THE CURB IS FLUSH.
  7. PRESS UNITS INTO FULL CONTACT WITH THE FRESH CONCRETE.
  8. FINISH TOP SURFACE OF EACH UNIT EDGE TO BE LEVEL WITH ADJACENT RAMP SURFACES.
  9. ONLY TRANSCURED JOINTS SHOULD BE ABOVE THE ADJACENT FINISHED CONCRETE.
  10. FILL ANY SAW CUT GAPS WITH APPROVED JOINT SEALANT MATERIAL.



**DETECTABLE WARNING SURFACE (DWS) RECONSTRUCTION**

PLAIN CEMENT CONCRETE DEPRESSIONED CURB

SAWCUT



**DETECTABLE WARNING SURFACE (DWS) RECONSTRUCTION**

PLAIN CEMENT CONCRETE DEPRESSIONED CURB

SAWCUT

**SIDEWALK ADDITION DUE TO OBSTRUCTIONS**

15. SIDE FLARES 10.00% MAX FOR RAMP WITH TURNING SPACES 4'-0" OR GREATER. SIDE FLARES 9.33% MAX FOR RAMP WITH TURNING SPACES LESS THAN 4'-0".
16. 4'-0" MIN PEDESTRIAN ACCESS ROUTE.
17. CURB RAMP REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SECTION FROM TURNING ANGLE TO CENTER. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.

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**CURB RAMPS AND SIDEWALKS**

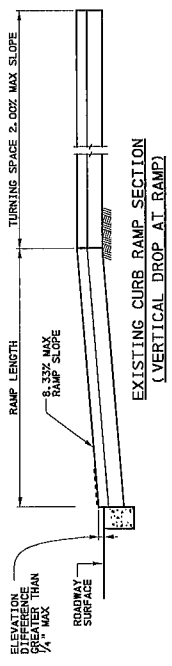
**ALTERATION DETAILS**

RECOMMENDED DEC. 17, 2019  
 9/10/2019  
 M. J. [Signature]  
 CHIEF, WPA, DELIVERY DIVISION

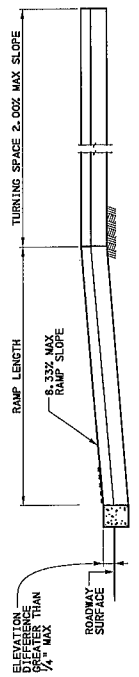
RECOMMENDED DEC. 17, 2019  
 M. J. [Signature]  
 CHIEF, BUREAU OF PROJECT DELIVERY

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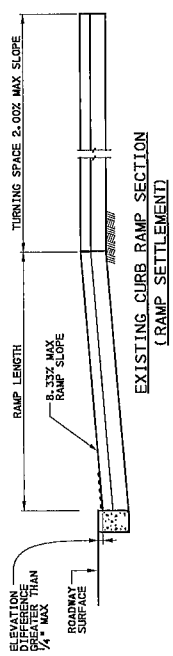




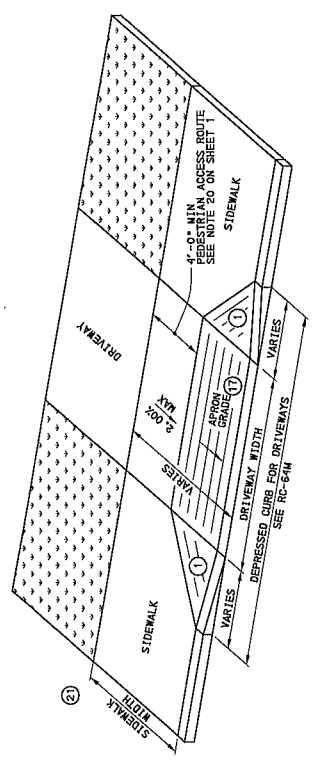
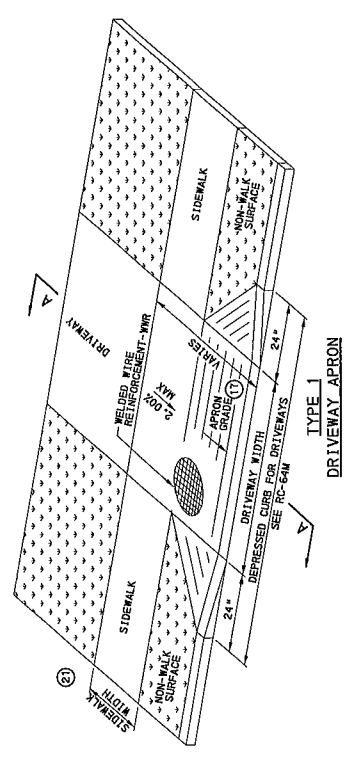
RECOMMENDED CORRECTION: RECONSTRUCT THE ENTIRE RAMP, TURNING SPACES AND FLARES WHERE APPLICABLE (SEE RAMP RECONSTRUCTION DETAIL ON SHEET 10).



RECOMMENDED CORRECTION: RECONSTRUCT THE ENTIRE RAMP, TURNING SPACES AND FLARES WHERE APPLICABLE (SEE RAMP RECONSTRUCTION DETAIL ON SHEET 10).  
ALTERNATE CORRECTION: MAX SLOPE OF 0.33%, FINISHED SURFACE MUST NOT HAVE ELEVATION DIFFERENCES GREATER THAN 1/4".

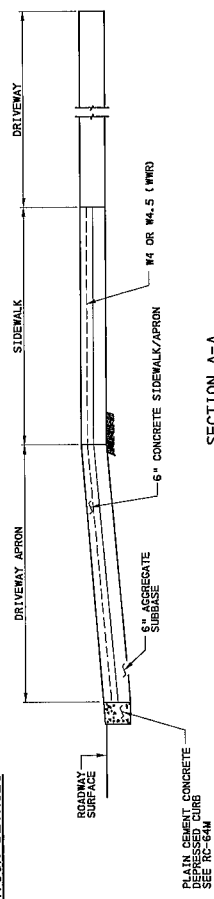


RECOMMENDED CORRECTION: RECONSTRUCT THE ENTIRE RAMP, TURNING SPACES AND FLARES WHERE APPLICABLE (SEE RAMP RECONSTRUCTION DETAIL ON SHEET 10).



- ① SIDE FLARES 10.00% MAX SLOPE.
- ② 0.02% MAX SLOPE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY APRON.
- ③ MINIMUM SIDEWALK WIDTH, 5'-0" (SEE NOTE 20, SHEET 11).

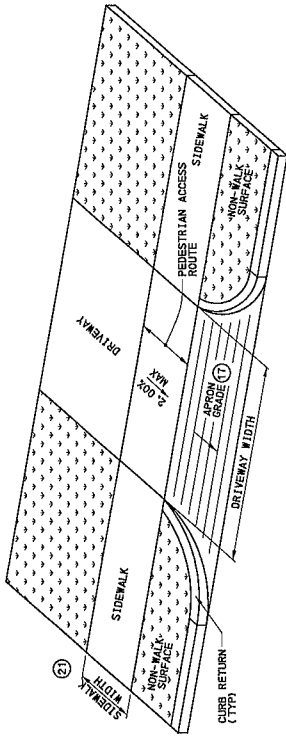
ALTERATION DETAILS



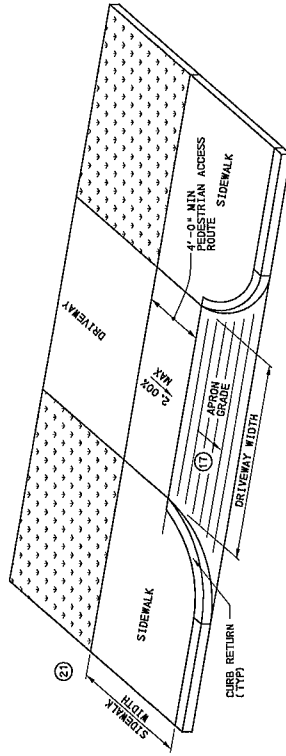
COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PROJECT DELIVERY

CURB RAMPS AND SIDEWALKS

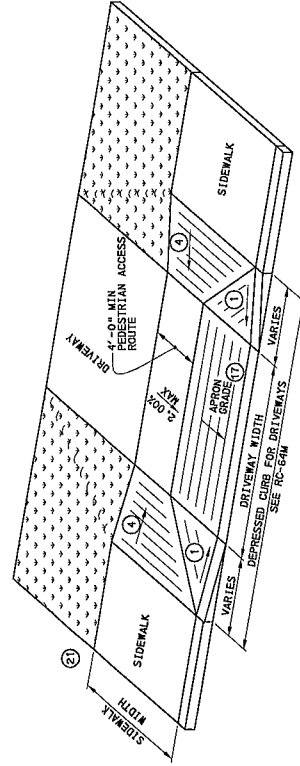
ALTERATION DETAILS  
AND DRIVEWAY APRONS



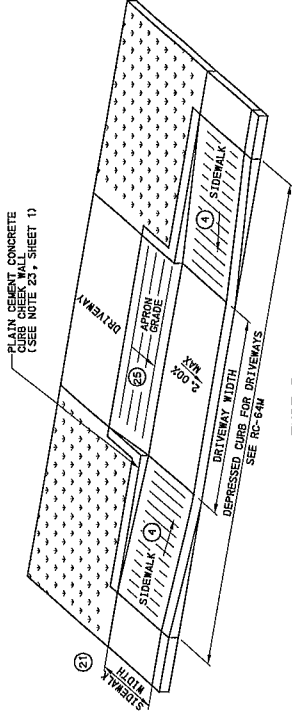
TYPE 2  
DRIVEWAY APRON



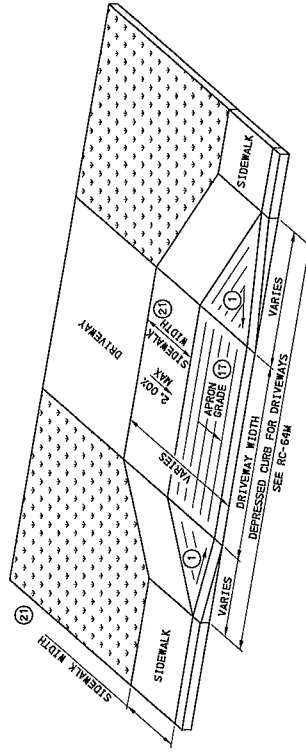
TYPE 2A  
DRIVEWAY APRON



TYPE 3  
DRIVEWAY APRON



TYPE 3A  
DRIVEWAY APRON



TYPE 4  
DRIVEWAY APRON

- ① SIDE FLARES 10.00Z MAX SLOPE.
- ② MIN. 4" MAX RAMP SLOPE, SEE NOTE 8 SHEET 1.
- ③ 8.00Z MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY.
- ④ MINIMUM SIDEWALK WIDTH 5'-0" (SEE NOTE 26, SHEET 1).
- ⑤ 8.00Z MAX CHANGE IN GRADE BETWEEN DRIVEWAY SURFACE AND SIDEWALK.

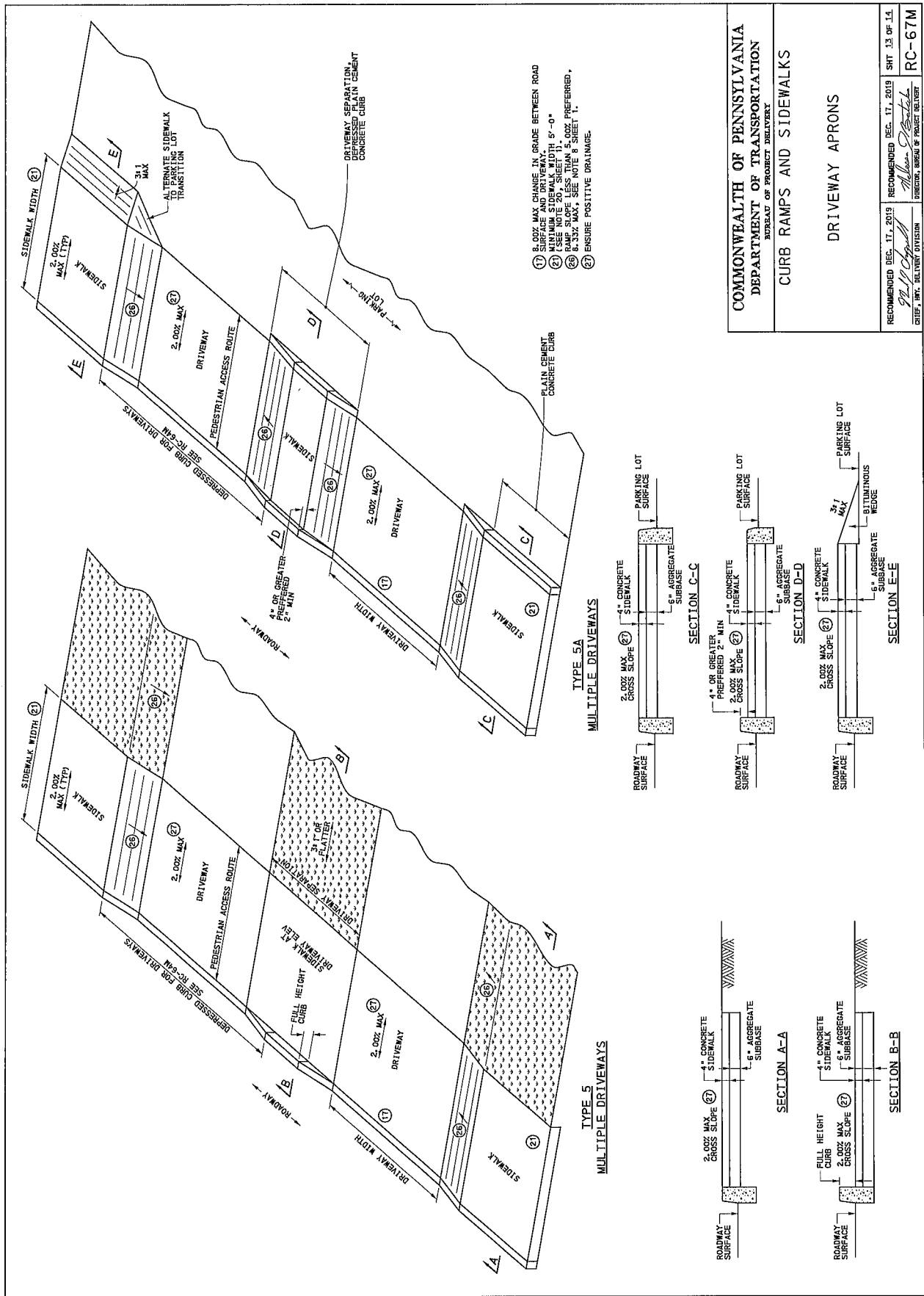
COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PROJECT DELIVERY

CURB RAMPS AND SIDEWALKS

DRIVEWAY APRONS

RECOMMENDED DEC. 17, 2019  
RECOMMENDED DEC. 17, 2019  
SHT 12 OF 14  
RC-67M

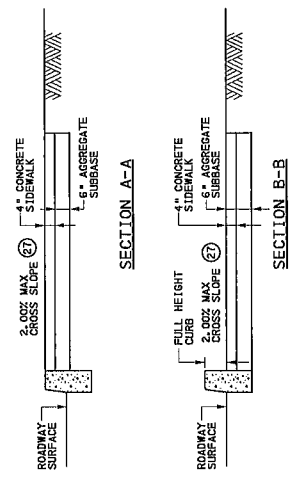
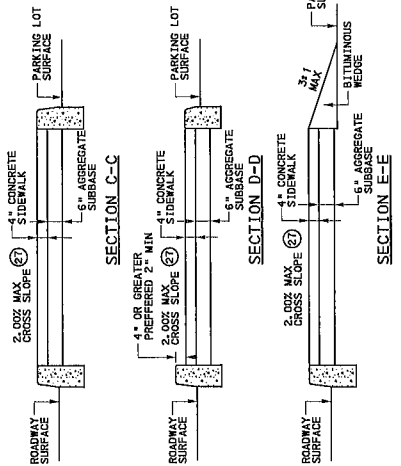
CHIEF, INT. DELIVERY DIVISION  
M. J. Chappell  
M. J. Chappell  
REVISION, BUREAU OF PROJECT DELIVERY

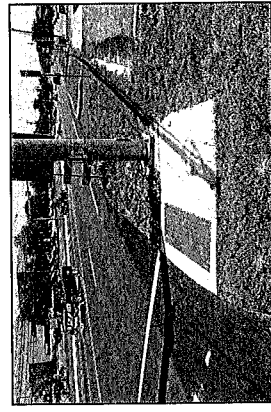
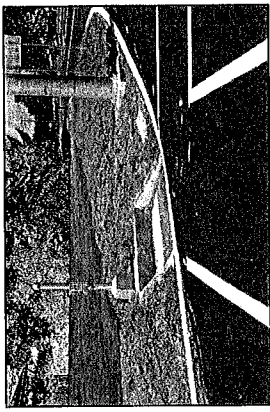
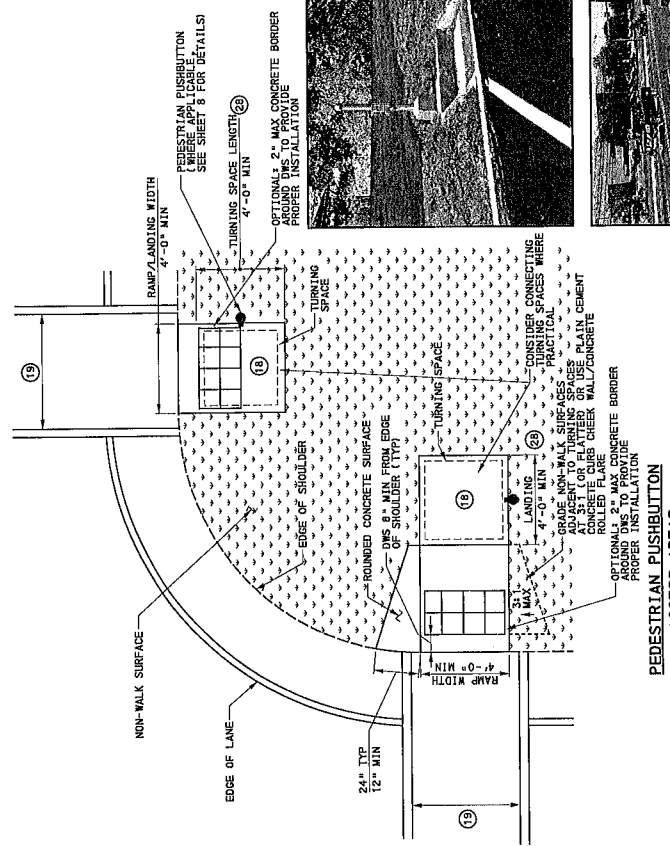


- (17) 8.00Z MAX CHANGE IN GRADE BETWEEN ROAD SURFACE AND DRIVEWAY. SEE NOTE 20, SHEET 11, 9'-0"
- (21) SIDEWALK WIDTH SHALL BE 2.00Z MAX. SEE NOTE 20, SHEET 11, 9'-0"
- (22) RAMP SLOPE LESS THAN 5.00Z PREFERRED, 6.33Z MAX. SEE NOTE 8 SHEET 11.
- (27) ENSURE POSITIVE DRAINAGE.

**TYPE 5A  
MULTIPLE DRIVEWAYS**

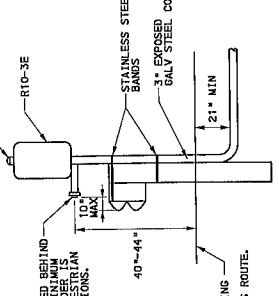
**TYPE 5  
MULTIPLE DRIVEWAYS**





**PEDESTRIAN PUSHBUTTON ACCESS AREAS**

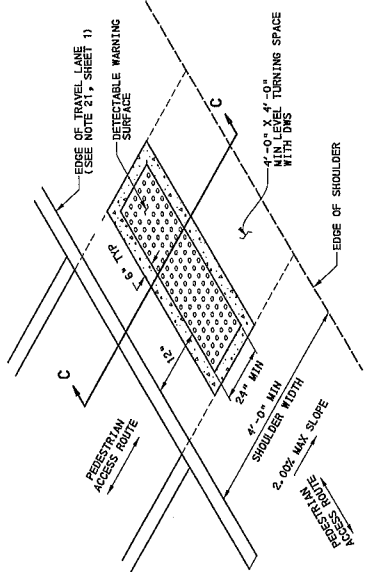
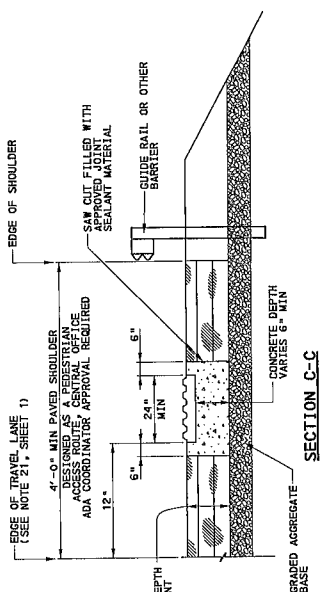
- 19 CURB RAMP REQUIRE A TURNING SPACE WITH A MAXIMUM CROSS SLOPE AND LONGITUDINAL SLOPE OF 2.00% WHERE PEDESTRIANS PERFORM TURNING MANEUVERS. SEE DETAILS FOR LOCATIONS AND DIMENSIONS.
- 20 6'-0" MIN MEASURED FROM INSIDE OF PAINTED EDGE TO INSIDE OF PEDESTRIAN PUSHBUTTON TO PROVIDE ACCESS TO PEDESTRIAN COMPANIES ON TWO OR MORE SIDES.



PEDESTRIAN PUSHBUTTON LOCATED BEHIND SHOULDER UNLESS THE SHOULDER IS LESS THAN 4'-0\"/>

DO NOT INSTALL DETECTABLE WARNING SURFACE UNLESS THE SHOULDER IS CENTRAL OFFICE ADA COORDINATOR APPROVAL REQUIRED.

**PEDESTRIAN PUSHBUTTON BEHIND GUIDE RAIL**



**DWS PLACEMENT ON PAVED SHOULDERS DESIGNED AS A PEDESTRIAN ACCESS ROUTE (PAR)**  
CENTRAL OFFICE ADA COORDINATOR APPROVAL REQUIRED

**COMMONWEALTH OF PENNSYLVANIA**  
DEPARTMENT OF TRANSPORTATION  
BUREAU OF PROJECT DELIVERY

**CURB RAMP AND SIDEWALKS**  
**DWS PLACEMENT ON PAVED SHOULDERS AND AT PEDESTRIAN PUSHBUTTONS**