OS-299 (7-08))		PUBLICATION:	
	6	TRANSMITTAL LETTER	Publication 72M June 2010 Edition Change No. 1	
	ylvania TRANSPORTATION		DATE:	
			June 10, 2013	
SUBJECT:				
	Stan	dards for Roadway Construction, RC 1 June 2010 Edition Change No. 1	LM-100M	
INFORMATI	ON AND SPEC	CIAL INSTRUCTIONS:		
Incorporate t Roadway Cor		visions into the June 2010 Edition of Publi	ication 72M (Standards for	
designs with Specifications	The updated Standard Drawings should be adopted as soon as possible on all new and existing designs without affecting any letting schedules and in conjunction with the current Publication 408 Specifications and Bridge Standards. PS&E submissions to Central Office after September 30, 2013 should use these new standards.			
The major revisions for each affected Standard Drawing are presented below. Since minor changes are not indicated, it is strongly advised that all recipients thoroughly examine the changes and revisions that have been incorporated.				
STANDARD	SHEET	DESCRIPTION OF CHANGES		
RC-28M	Sheet 1	Removed metric dimensions.		
		In Overlay Transition with Paving Notch Pavements detail, added vertical dimens bituminous or concrete pavement surface variable depth milling is incidental to the	ion to indicate milling of e, variable depth and that the	
RC-67M	General	Removed metric dimensions.		
		Updated Notes (numbers with circles aro below for additional information.	und them). See specific Sheets	
		Changed "LANDING" to "TURNING SPAC	Ε".	
		Added "SEE SHEET 8 FOR DETAILS" in m pedestrian pushbuttons are applicable.	nultiple locations where	
RC-67M	Sheet 1	Modified title from "TYPE 1 TYPICAL SEC AND TYPICAL SECTIONS".	TIONS" to "TYPE 1 CURB RAMPS	
		Modified Note 18 under Notes 1 and 2.		
		For Type 1 Curb Ramp detail, added "SE of side flares.	E NOTE 29 (TYP)" with callout	
		For Type 1, Section A-A detail:		

		*Removed premolded expansion joint filler between ramp length and landing.
		*Added "(SEE NOTE 22)" after "SURFACE OF CURB RAMP FLUSH WITH ROADWAY SURFACE".
		Revised Note 1 to include reference for Section 695.
		Revised Note 5 to indicate "SIDE FLARES" instead of "FLARED SIDE RAMPS".
		Added second sentence in Note 12 to see Sheet 9 for installations along curved surfaces.
		Revised Note 14 to say "PEDESTRIAN ACCESS ROUTE" instead of "PEDESTRIAN ACCESSIBLE ROUTE".
		Revised Note 17, first sentence to indicate an algebraic difference of 13.33% rather than 11.00%.
		Added fourth sentence in Note 22 to describe work at the joint between depressed curb and roadways.
		Modified Note 23 as follows:
		*Revised second sentence to read "AT 3:1 OR FLATTER" rather than "AT 3:1 MAXIMUM".
		*Revised third sentence to indicate "PEDESTRIAN PATH" instead of "PEDESTRIAN ACCESS ROUTE".
		Added Notes 27, 28, and 29.
RC-67M	Sheet 2	Modified title from "TYPE 1 CURB RAMPS" to "TYPE 1 AND TYPE 1A CURB RAMPS".
		For Type 1A Curb Ramp detail:
		*Replaced "8.33% MAX. SLOPE" for ramp slope with Note 4.
		*Relocated vertical pavement marking for crosswalk to appear on the left of "GRADE BREAK".
		Added Note 4.
		Modified Note 18.
RC-67M	Sheet 3	Modified title from "TYPE 2 AND TYPE 3 CURB RAMPS" to "TYPE 1A and TYPE 2 CURB RAMPS".
		Deleted Type 3 Curb Ramp detail.
		Added new Type 1A Curb Ramp detail with Assistant District Executive approval required if turning space is not entirely on sidewalk.
		For Type 2 Curb Ramp Section B-B detail, changed "SLOPED RAMP" to "SLOPED RAMP/CURB CHEEK WALL".
		Deleted Note 1.

		Added Note 3.
		Modified Notes 4 and 18.
RC-67M	Sheet 4	Added "AND TYPICAL ELEVATIONS" after "TYPE 4 CURB RAMPS" in title.
		For Type 4 Curb Ramp (Parallel) and Alternate Type 4A Curb Ramp (Parallel) details:
		*Replaced "8.33% MAX SLOPE" with Note 4.
		*Relocated pedestrian pushbutton farther away from ramp slope.
		For Alternate Type 4A Curb Ramp details:
		*Replaced "ROUNDED CONCRETE SURFACE" with "CONCRETE ROLLED FLARE".
		*Modified on the outside of one side of ramp to indicate "ALTERNATE GRADED FLARE, 3:1 OR FLATTER, SEE NOTE 23 ON SHEET 1".
		For Type 4/4A Curb Ramps with Shared Turning Space detail, replaced Note 4 with "8.33% MAX SLOPE".
		For Typical Elevations for Depressed Curbs details:
		*Changed "TYPE 4 CURBED FLARE TRANSITION" to "TYPE 4 CURB CHEEK WALL FLARES".
		*Changed "TYPE 4A NON-TRAVERSABLE ROLLED FLARE TRANSITION" to "TYPE 4A NON-TRAVERSABLE ROLLED FLARES".
		*Changed "COMBINATION TRANSITION" to "COMBINATION FLARES".
		*Added "(SEE NOTE 22, SHEET 1)" after "CURB FLUSH WITH ROAD SURFACE".
		Modified Notes 4 and 18.
RC-67M	Sheet 5	Removed "AND TYPICAL ELEVATIONS" from title.
		For Type 6 Curb Ramp Combination details, relocated the pedestrian pushbuttons to a location in the non-walk surface that is outside of the sidewalk width and curb.
		For Type 6 Curb Ramps with Shared Turning Space detail, moved pedestrian pushbuttons farther away from ramp slopes.
		Modified Notes 4 and 18.
RC-67M	Sheet 6	For Blended Transition detail:
		*Moved crosswalk pavement marking from within the detectable warning surface to the outside of the detectable warning surface.
		*Changed "PLAIN CEMENT CONCRETE" to "PLAIN CEMENT CONCRETE CURB".

		For Type A Typical Median or Island Access Opening with Curb Sides detail and Type B Typical Median or Island Access Opening with Flared Sides detail:
		*Deleted "FOR ALTERATIONS MAX EXTENT FEASIBLE 4'-0" MIN".
		*Added "/MOUNTABLE CURB (WHERE APPROPRIATE)" with "PLAIN CEMENT CONCRETE CURB" and "PLAIN CEMENT CONCRETE DEPRESSED CURB".
		*Revised dimension line for variable width of the median area to exclude the curb.
		Modified Notes 12 and 18.
RC-67M	Sheet 7	For Median or Island Curb Ramps detail and Alternate Small Island with Cut Through detail:
		*Added references to mountable curbs and concrete rolled flares.
		*Added width dimensions of 24" TYP, 12" MIN for concrete rolled flares.
		For Alternate Small Island with Cut Through detail, added Note 12 after "DETECTABLE WARNING SURFACE (TYP)".
		For Type 1 Single Curb Ramp detail, relocated Note 22 to indicate width from inside pedestrian crosswalk line to edge of travel lane.
		For Typical Detectable Warning Surface at Railroad Crossing detail:
		*Revised graphic to indicate distance of 6'-0" MIN to 15'-0" MAX from the center of the closest rail to the nearest edge of the detectable warning surface.
		*Added "OPTIONAL: 2" MAX CONCRETE BORDER AROUND DWS TO PROVIDE PROPER INSTALLATION".
		For Detail A detail:
		*Modified detectable warning surface to appear as a completely rectangular shape.
		*Relocated Note 22 to indicate width from inside pedestrian crosswalk line to edge of travel lane.
		Added Note 12.
		Modified Notes 18 and 22.
RC-67M	Sheet 8	Revised title from "PUSHBUTTONS / TRIANGULAR LANDING" to "PUSHBUTTONS, TRIANGULAR LEVEL AREA, CHANGE OF GRADE AND CROSS SLOPE TRANSITIONS".
		Deleted Pedestrian Pushbutton Detail detail.
		Deleted Pedestrian Push Button Dual Sign Mounting Detail Plan View detail.

		Added Ramp Cross Slope Transition to Match Roadway Profile Slope detail.
		For Recommended Pushbutton Locations details:
		*Moved pedestrian pushbuttons off the sidewalk and onto the non-walk surface.
		*Adjusted the dimension 10'-0" MAX to be measured from the front face of curb to the pedestrian pushbutton located in the non-walk surface.
		For Change of Grade Limitations detail:
		*Revised algebraic difference between roadway slope and curb ramp slope from 11.00% to 13.33% (2 locations).
		*Revised value that transition strip slope is not to exceed from 2.00% to 5.00%.
		*Deleted "8.33% MAX" before "RAMP SLOPE" to the left of the 24" minimum transition strip.
		*Deleted "5.00% MAX" after "ROADWAY SLOPE" to the right of the 24" minimum transition strip.
		For Triangular Level Area for Directional Ramps on Curb Returns detail, added Note 26 with pedestrian pushbutton.
		Deleted Note 27.
RC-67M	Sheet 9	For Detectable Warning Surface (DWS) on Curved Surfaces detail:
		*In top graphic (diagonal ramp), deleted Note 24.
		*Added bottom graphic with rectangular tile positioned on a skew relative to the 8.33% maximum slope.
		*In four lowest graphics, revised wording beside reference to Note 24 to indicate "GRADE BREAK TO BACK OF CURB", with one distance "LESS THAN 5'-0" " and three distances "GREATER THAN 5'-0" ".
		*In three lowest graphics, indicated whether detectable warning surface is a "SPECIAL ORDER RADIAL TILE" or a "RECTANGULAR TILE CUT TO FIT".
		For Detectable Warning Surface (DWS) on Type 1 Curb Ramp detail and Detectable Warning Surface (DWS) on Type 2 Curb Ramp detail, in lower right corner:
		*Deleted reference to Note 24.
		*Deleted 8" maximum dimension from one corner of DWS to face of curb.
		For Detectable Warning Surface Embedding Detail detail:
		*After "DETECTABLE WARNING SURFACE THICKNESS", added two sentences to embed wet set DWS tile only and to indicate surface applied DWS is not permitted.

		*Added note to indicate optional construction of a 2" maximum concrete border around DWS for providing proper installation and to see pedestrian pushbutton access areas detail on Sheet 14 for plan view details.
		Modified Note 24 to indicate 5'-0" instead of 60".
RC-67M	Sheet 10	For Transition to Existing Sidewalk Detail detail, added "MINIMUM" after "TAPER SIDEWALK AT A 2:1 RATE".
		For Detectable Warning Surface (DWS) Installation Detail detail:
		*Deleted the water vane (WV) within the proposed area for the sawcut.
		*Deleted the text "RELOCATE UTILITIES WHERE DWS WILL BE PLACED".
		Modified Notes 16 and 18.
RC-67M	Sheet 11	For Existing Curb Ramp Section (Vertical Drop at Road Surface) detail:
		*Deleted bituminous wedge at tie-in with roadway surface. *Modified Recommended Correction Note. *Added "ALTERNATE CORRECTION" above Note to grind curb.
RC-67M	Sheet 12	For Type 2, Type 2A, and Type 3 Driveway Apron details, changed "PEDESTRIAN PATH" to "PEDESTRIAN ACCESS ROUTE".
		Modified Note 4.
RC-67M	Sheet 13	Inserted sheet with new details of Driveway Aprons for Multiple Driveways (Type 5 and Type 5A).
RC-67M	Sheet 14	Added "AND AT PEDESTRIAN PUSHBUTTONS" in the title.
		In Section C-C detail, added text below dimension for "4'-0" MIN PAVED SHOULDER".
		Changed title of detail from "DWS PLACEMENT ON PAVED SHOULDERS WITH BARRIERS (SHARED USE SHOULDERS)" to "DWS PLACEMENT ON PAVED SHOULDERS DESIGNED AS A PEDESTRIAN ACCESS ROUTE (PAR)". Central Office ADA Coordinator approval is required.
		Added details for Pedestrian Pushbutton Access Areas and Pedestrian Pushbutton Behind Guide Rail.
		Added two photos with examples of DWS placement at pedestrian pushbuttons.
		Added Notes 19 and 28.
1		

Any comments or questions regarding the above revisions should be directed to the Highway Design and Technology Section, Highway Delivery Division, Bureau of Project Delivery.

CANCEL AND DESTROY THE FOLLOWING:

RC-28M June 1, 2010 RC-67M June 1, 2010

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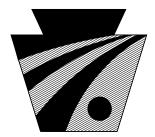
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pennsylvania DEPARTMENT OF TRANSPORTATION

DEPARTMENT OF TRANSPORTATION BUREAU OF PROJECT DELIVERY

STANDARDS FOR ROADWAY CONSTRUCTION SERIES RC-1M TO 100M

JUNE 2010 EDITION



PDT Pub #72M

STANDARD DRAWING NUMBER	DRAWING DATE	DESCRIPTION	STANDARD DRAWINGDRAWNUMBERDAT
EARTHWORK			FENCES AND CURBS
RC-11M(2 Sheets) RC-12M(2 Sheets) RC-13M PAVEMENTS_	JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010	CLASSIFICATION OF EARTHWORK CLASSIFICATION OF EARTHWORK FOR STRUCTURES BACKFILL AT STRUCTURES PAY LIMIT OF SUBBASE CONCRETE PAVEMENT JOINTS	RC-60M(3 Sheets) JUN. 1, 20 RC-61M JUN. 1, 20 RC-63M(2 Sheets) JUN. 1, 20 RC-64M JUN. 1, 20 RC-65M JUN. 1, 20 * RC-67M(14 Sheets)_ JUN. 10, 20
RC-22M(7 Sheets) RC-23M(3 Sheets) RC-24M(3 Sheets) RC-25M(4 Sheets)	JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010	BRIDGE APPROACH SLABS PAVEMENT RELIEF JOINT	EROSION AND SEDIMENTAT RC-70M_(3 Sheets)JUN. 1, 20
RC-27M(2 Sheets) * RC-28M RC-29M(3 Sheets) DRAINAGE_	JUN. 1, 2010 JUN.10, 2013 JUN. 1, 2010	PLAIN CONCRETE PAVEMENT OVERLAY TRANSITIONS AND PAVING NOTCHES BRIDGE ANTI-ICING SYSTEM APPROACH INSTALLATION	RC-71M(4 Sheets) JUN. 1, 20 RC-72M(7 Sheets) JUN. 1, 20 RC-73M(4 Sheets) JUN. 1, 20 RC-74M JUN. 1, 20 RC-75M JUN. 1, 20
	JUN. 1, 2010 JUN. 1, 2010		RC-76M JUN. 1, 20 RC-77M JUN. 1, 20 RC-78M(4 Sheets) JUN. 1, 20
RC-35M RC-36M RC-39M(6 Sheets) RC-40M RC-43M(5 Sheets)	JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010	DRAINAGE DIKE SPRING BOXES STANDARD MANHOLES SLOPE PROTECTION GABIONS INLET TOPS, GRATES AND FRAME	HIGHWAY LIGHTING RC-80M_(2 Sheets)_ JUN. 1, 20 RC-81M JUN. 1, 20 RC-82M_(2 Sheets)_ JUN. 1, 20 RC-83M_(2 Sheets)_ JUN. 1, 20 RC-84M_(2 Sheets)_ JUN. 1, 20
GUIDE RAIL AND ME		<u>R</u> GUIDE RAIL TRANSITION AT END OF STRUCTURE	ROADSIDE DEVELOPMENT AN
RC-52M(8 Sheets) RC-53M(2 Sheets) RC-54M(7 Sheets) RC-57M(6 Sheets)	JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010 JUN. 1, 2010	TYPE 2 STRONG POST GUIDE RAIL TYPE 2 WEAK POST GUIDE RAIL BARRIER PLACEMENT AT OBSTRUCTIONS CONCRETE MEDIAN BARRIER SINGLE FACE CONCRETE BARRIER	RC-91M(2 Sheets) JUN. 1, 20 RC-92M JUN. 1, 20
RC-59M (4 Sheets)	-		JUNE

TRUCTION

ING Е DESCRIPTION

- 010 ____RIGHT-OF-WAY FENCE
- 010 _____RIGHT-OF-WAY GATES AND REMOVABLE FENCE SECTIONS
- 010 ____ PERMANENT BARRICADES
- 010 ____CURBS AND GUTTERS
- 10 ____CONCRETE MOUNTABLE CURBS
- 013 ____CURB RAMPS AND SIDEWALKS

ION CONTROL

- 010 ____ PERIMETER CONTROL DEVICES
- D10 ____SEDIMENT BASIN AND SEDIMENT TRAP
- D10 ____ INLET AND OUTLET PROTECTION
- 010 ____ CHANNEL AND SLOPE PROTECTION
- D10 ____ TEMPORARY DIVERSIONS
- D10 ____DEWATERING DEVICES
- D10 ____STRAW BALE BARRIER
- 010 ____ROCK CONSTRUCTION ENTRANCE
-)10 ____SLOPE PROTECTION GEOCELL CELL AND GEOCELL SECTION DETAILS
- 010 ____HIGHWAY LIGHTING-FOUNDATIONS
- D10 ____HIGHWAY LIGHTING-JUNCTION BOXES-LIGHT DUTY
-)10 ____HIGHWAY LIGHTING-JUNCTION BOXES-HEAVY DUTY
- D10 ____HIGHWAY LIGHTING-LIGHTING POLE DETAILS
- D10 ____HIGHWAY LIGHTING-LIGHTING AND ELECTRICAL DETAILS

D PLANTING

010 ____BRACING AND PLANTING DETAILS D10 ____REMOVAL LIMITS OF TREE TRIMMING

, 2010 EDITION

★ SEE CHANGE #1 FOR JUNE 10, 2013 STANDARD REVISIONS

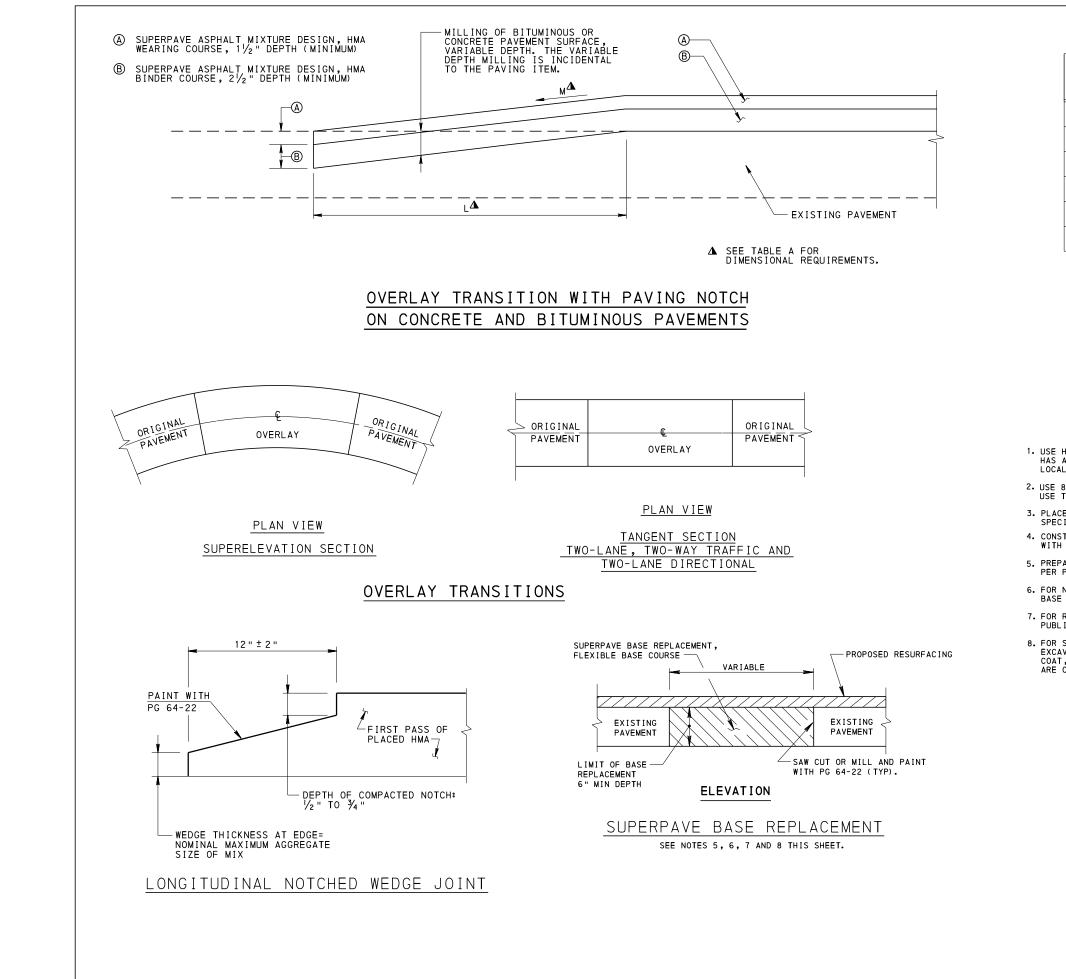


TABLE A

FUNCTIONAL CLASSIFICATION	SLOPE M (MAXIMUM)	PAVING NOTCH L (MINIMUM)
INTERSTATE AND OTHER LIMITED ACCESS FREEWAYS	0.17% (1" IN 50')	50′
ARTERIALS > 45 mph SEE NOTE 2.	0.28% (1" IN 30')	30′
ARTERIALS <u><</u> 45 mph SEE NOTE 2	0.33% (1" IN 25′)	25′
COLLECTORS AND LOCAL ROADS	0.33% (1" IN 25′)	25'
CROSS STREETS SEE NOTE 1	8.33% (1" IN 12")	1′
DRIVEWAYS	8.33% (1" IN 12")	NO NOTCH

<u>TABLE B</u>

NOMINAL MAXIMUM AGGREG	ATE SIZE
MIX	SIZE
SP9.5 (ID-2W, ID-2W H.D.)	3⁄8 "
SP12.5	1/ ₂ "
SP19 (ID-3B, ID-2B, ID-2B H.D.)	³ ⁄4 "

NOTES

 USE HIGHER APPROPRIATE CRITERIA IF A CROSS STREET HAS A FUNCTIONAL CLASSIFICATION OF COLLECTORS AND LOCAL ROADS OR HIGHER.

2. USE 85TH PERCENTILE SPEED, IF AVAILABLE. OTHERWISE, USE THE POSTED SPEED.

 PLACE EDGE FLUSH WITH EXISTING PAVEMENT AND SEAL AS SPECIFIED IN PUBLICATION 408, SECTION 409.3(K) 3.
 CONSTRUCT FLEXIBLE BASE REPLACEMENT IN ACCORDANCE WITH THE REQUIREMENTS OF PUBLICATION 408, SECTION 316.

5. PREPARE EXPOSED VERTICAL AND HORIZONTAL SURFACES AS PER PUBLICATION 408, SECTION 409.3(K).

6. FOR NON-OVERLAY APPLICATIONS, THE TOP 1¹/₂ " OF BASE REPLACEMENT WILL BE SUPERPAVE WEARING COURSE.

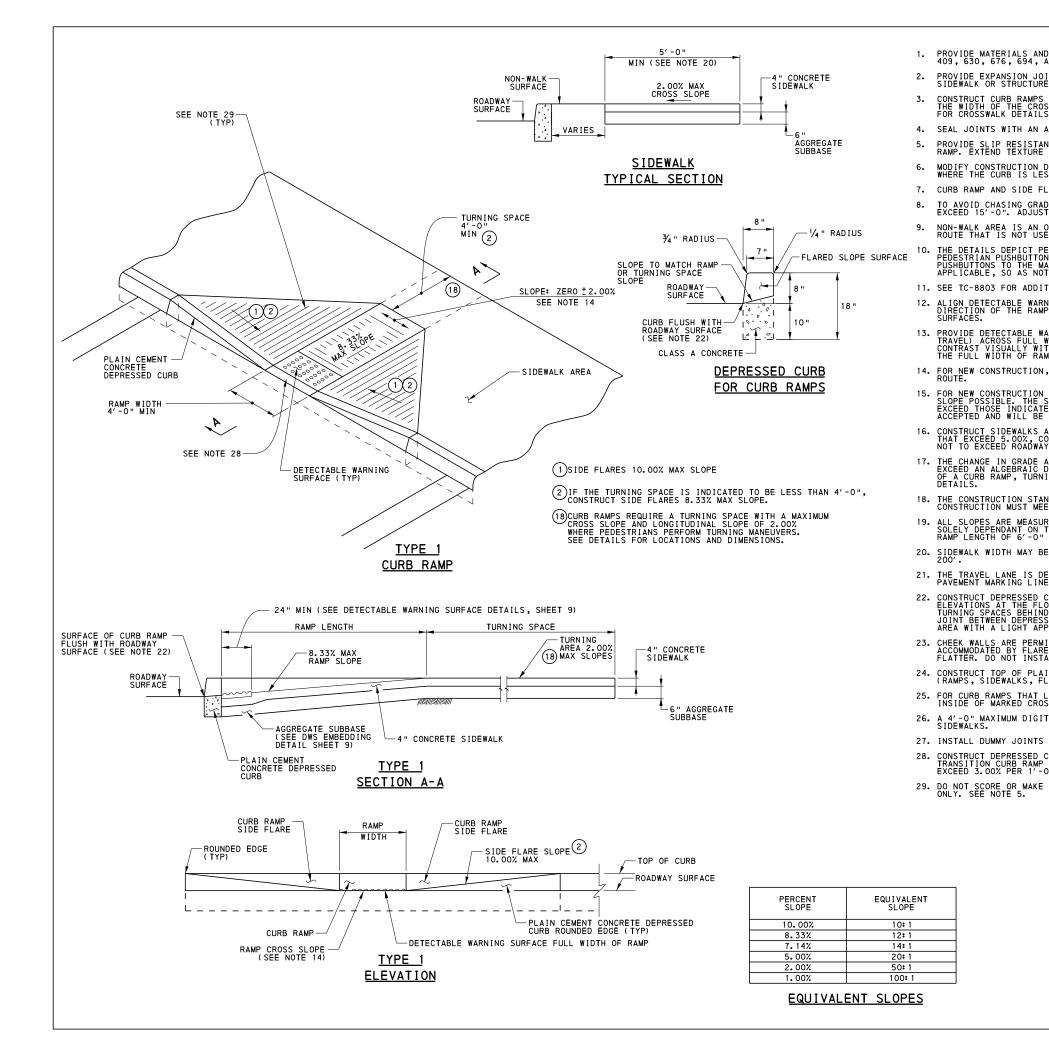
7. FOR RESTORATION OF RIGID PAVEMENT, REFER TO PUBLICATION 408, SECTION 516 AND RC-26M.

8. FOR SUPERPAVE BASE REPLACEMENT, SAW CUTTING, EXCAVATION, HAULING AND DISPOSAL, BITUMINOUS TACK COAT, BITUMINOUS MATERIAL, AND SEALING OF THE JOINTS ARE CONSIDERED AS INCIDENTAL.

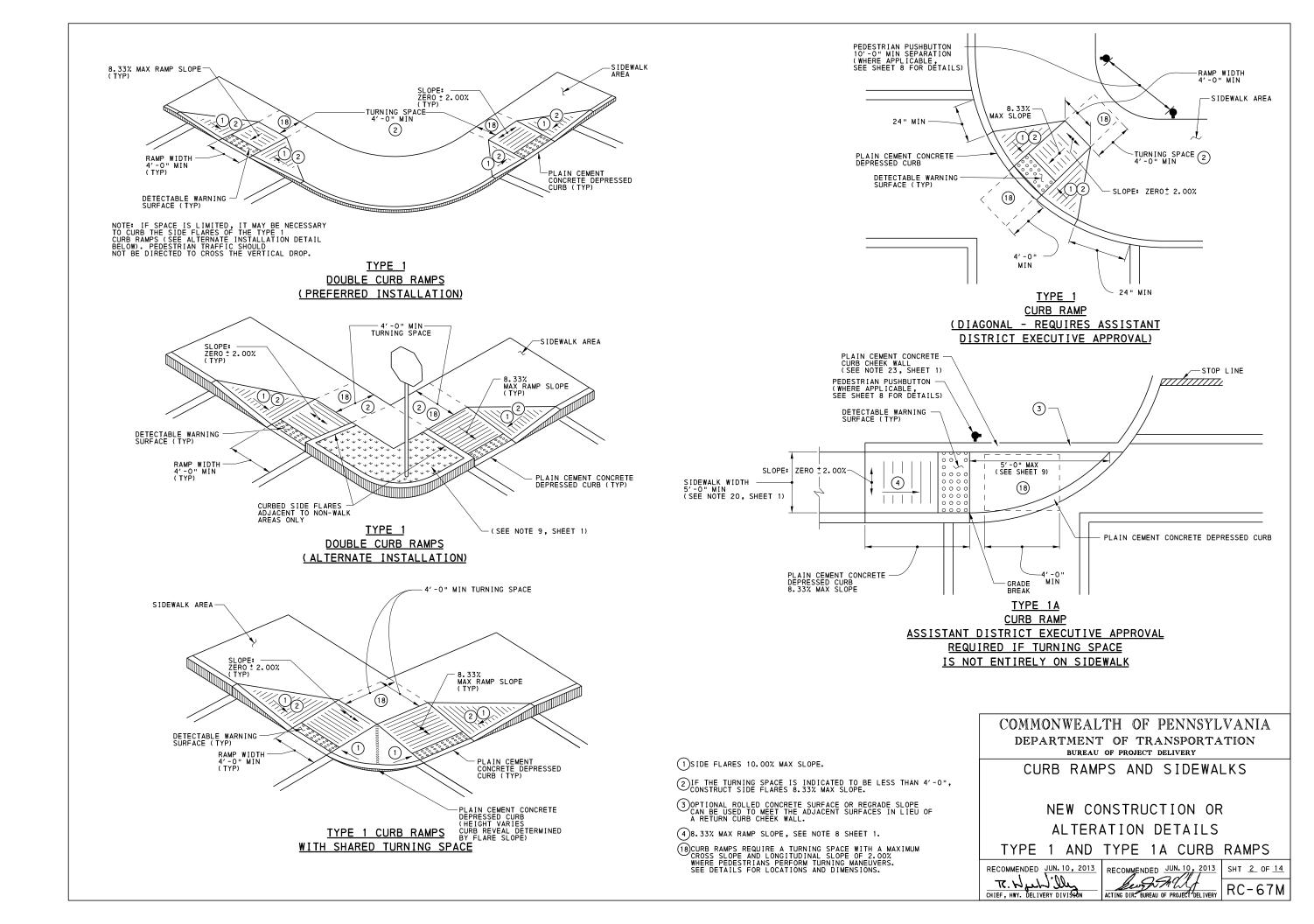
COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION bureau of project delivery

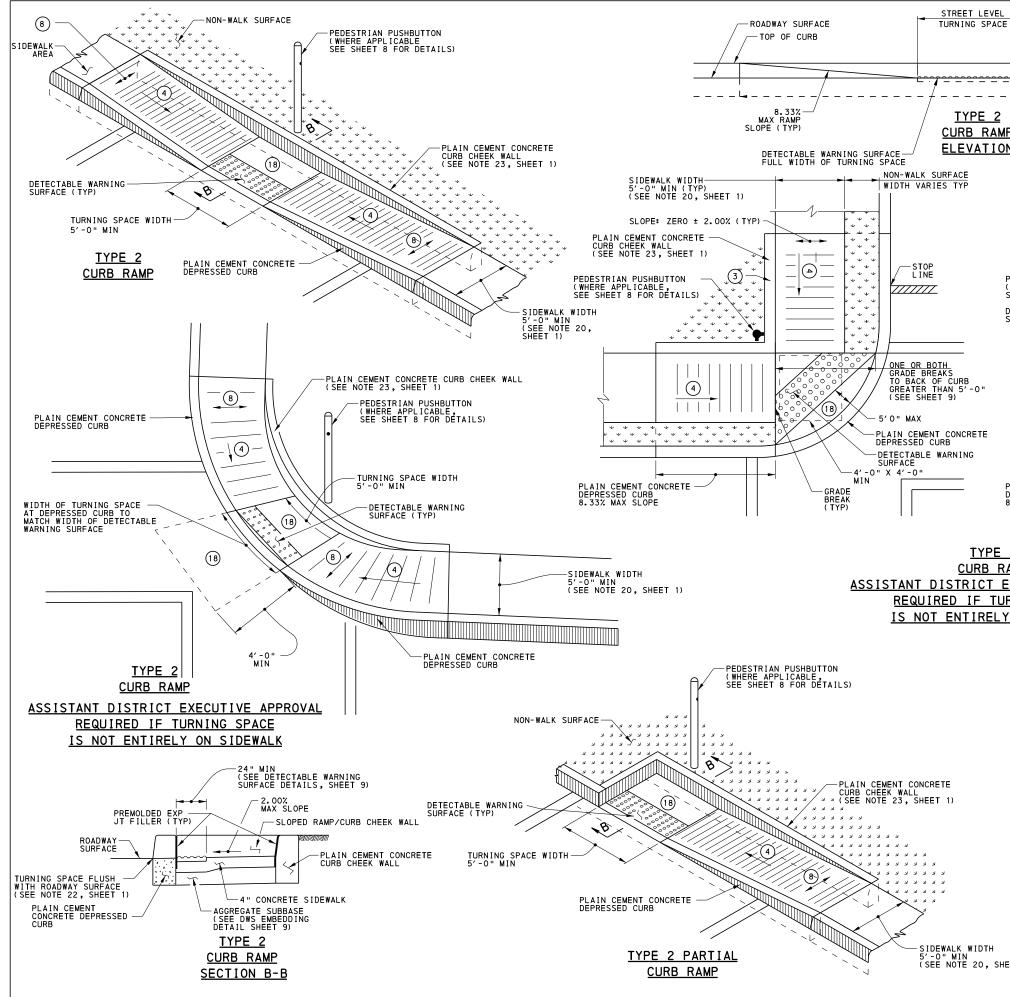
OVERLAY TRANSITIONS AND PAVING NOTCHES

RECOMMENDED JUN. 10, 2013	RECOMMENDED JUN. 10, 2013	SHT <u>1</u> OF <u>1</u>
	ACTING DIR, BUREAU OF PROJECT DELIVERY	RC-28M

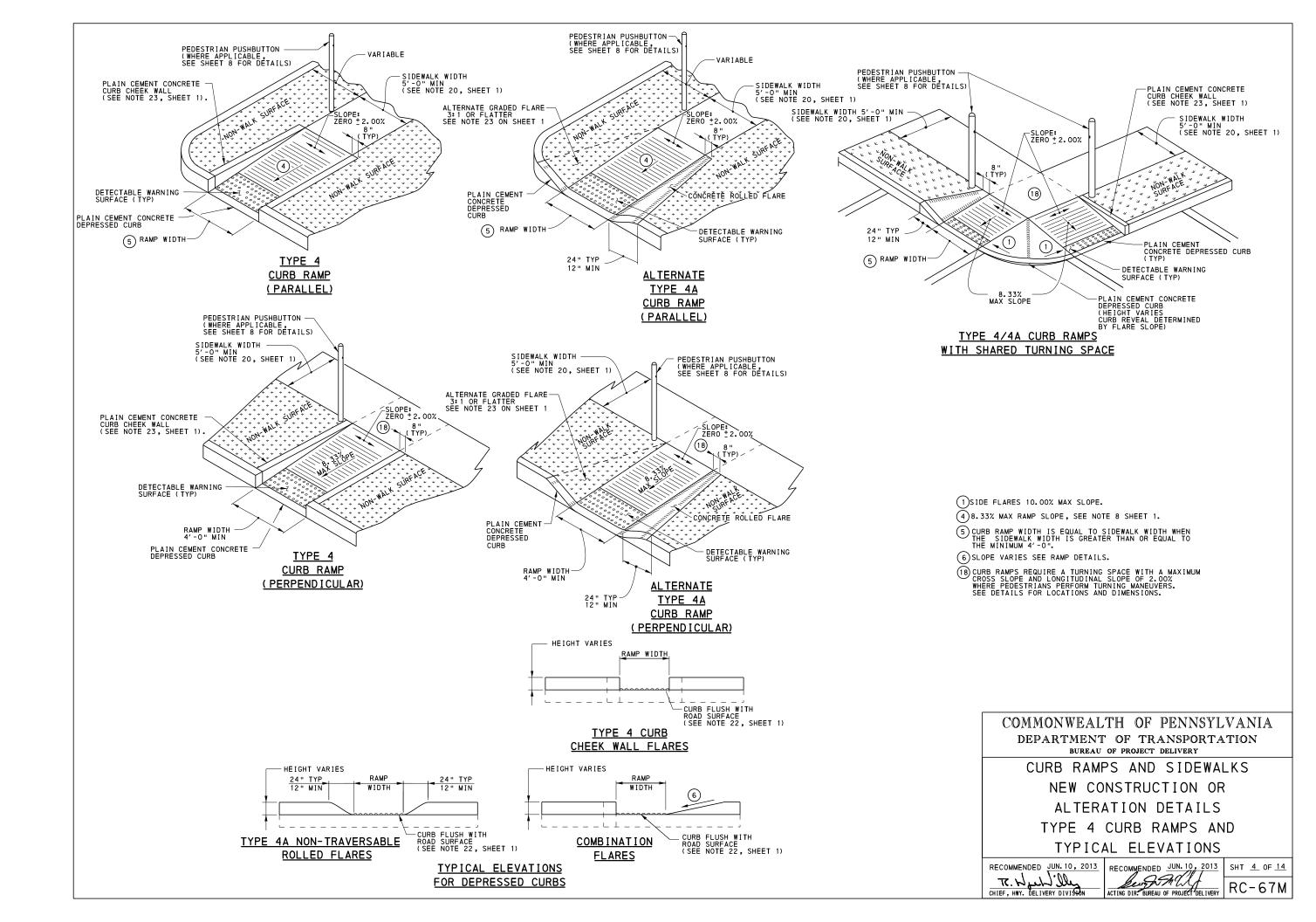


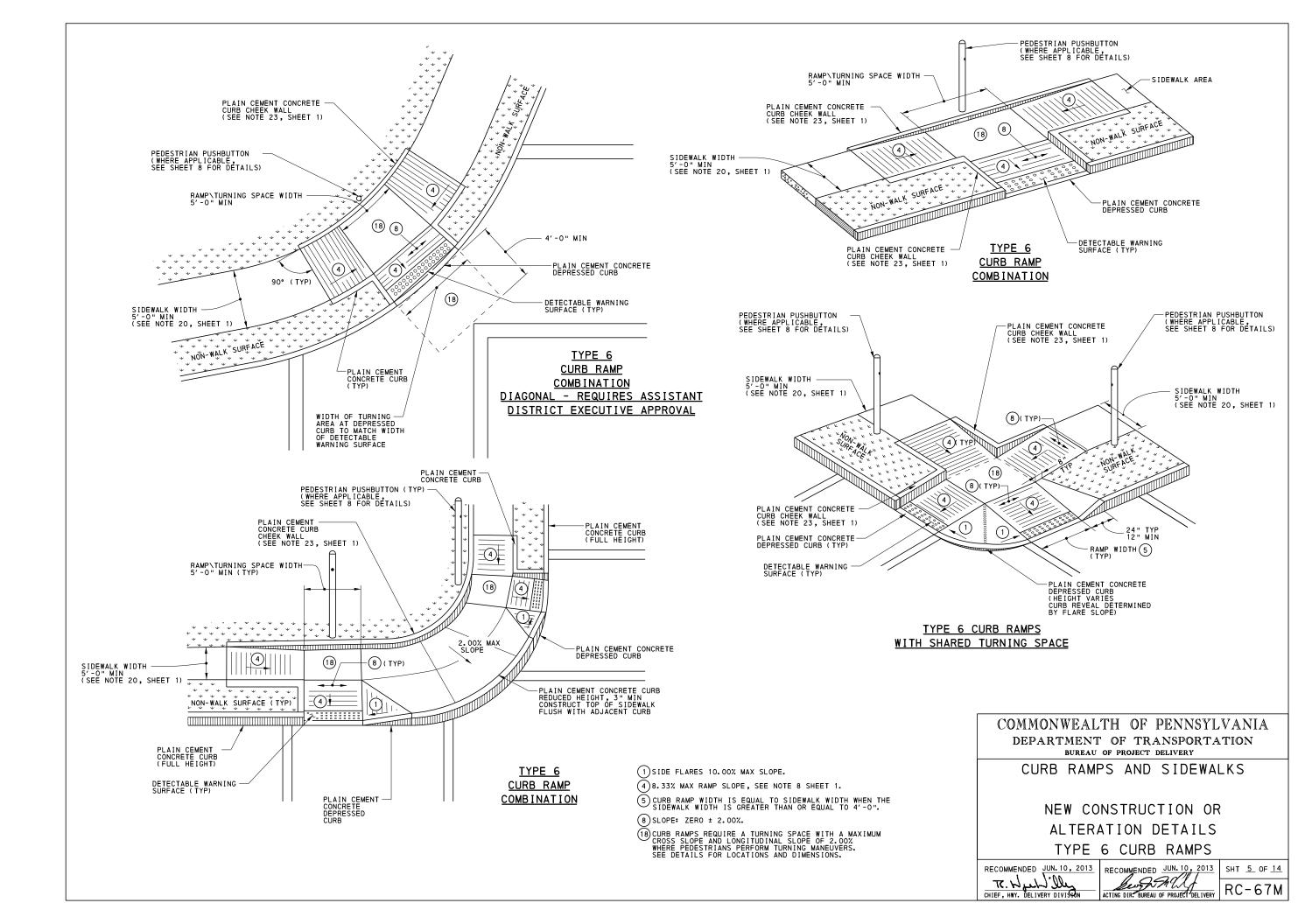
	<u>NOTES</u>		
AND 695.	CTION MEETING THE REQUIREME		
	$IAL \frac{1}{2}$ " THICK WHERE CURB RAN TOP OF JOINT FILLER FLUSH		
WITH A MI SWALK AND	INIMUM 4'-O" X 4'-O" CLEAR WHOLLY OUTSIDE THE PARALL	SPACE BEYOND THE CURB FACE EL VEHICLE TRAVEL LANE. SE	, WITHIN E SHEET 7
	SEALING MATERIAL.		
	ON CURB RAMP BY COARSE BE WIDTH AND LENGTH OF THE CL		SLOPE OF THE ARES.
SS THAN TH) ADAPT DIMENSIONS TO EXIST HE STANDARD 8" HEIGHT. FHS ARE VARIABLE AND BASED		
	NITELY WHEN TRAVERSING THE DPE AS NEEDED TO PROVIDE AC		
BSTRUCTED) OR GRASS/NON-PAVED AREA A PEDESTRIAN FOR ACCESS.		
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	EXCEED 2.00% CROSS SLOPE ON		
	RATIONS, CONSTRUCT CURB RAN DICATED IN THE DETAILS SHOW DETAILS, OR CONTRACT DOCUN JCTED.		
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DARDS DEF	PICTED ARE MOST APPROPRIATE	FOR NEW CONSTRUCTION. ALL LESS OTHERWISE NOTED OR DI	RECTED.
RED WITH F THE HEIGHT FOR A 12:	RESPECT TO A LEVEL PLANE. T f of curb. (for example, a i slope.	HEREFORE, THE LENGTH OF RA 6" CURB DOES NOT NECESSARI	AMP IS NOT ILY MEAN A
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TTED WHEN S or grad All cheek	N ADJACENT TO NON-WALK AREA DING. GRADE GRASS AREAS OR WALLS THAT INTERSECT THE F	NS OR ELEVATION DIFFERENCES OTHER NON-WALK AREAS AT 3 PEDESTRIAN PATH.	S CANNOT BE 1 OR
ARES).	CONCRETE DEPRESSED CURB TO		
	SINGLE CROSSWALK, THE RAME NES. SEE SHEET 7 FOR DETAIL		
	AY LEVEL WILL BE USED TO VE		RAMPS AND
	MPS, TURNING SPACES, FLARES		N. DO NOT
GROOVES (TO MATCH ROADWAY PROFILE DPE TO MATCH ROADWAY PROFIL SLOPE RATE OF CHANGE WHEN T	RANSITIONING TO ROADWAY PF	
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	=	OF TRANSPORTA	TION
	CURB RAM		_KS
	NEW CO	NSTRUCTION OR	
	ALTER	ATION DETAILS	
	TYPE 1	CURB RAMPS AN	ID
	TYPI	CAL SECTIONS	
	RECOMMENDED JUN. 10, 2013	RECOMMENDED JUN. 10, 2013	SHT <u>1</u> OF <u>14</u>
	CHIEF, HWY. DELIVERY DIVISION	ACTING DIR. BUREAU OF PROJECT DELIVERY	RC-67M

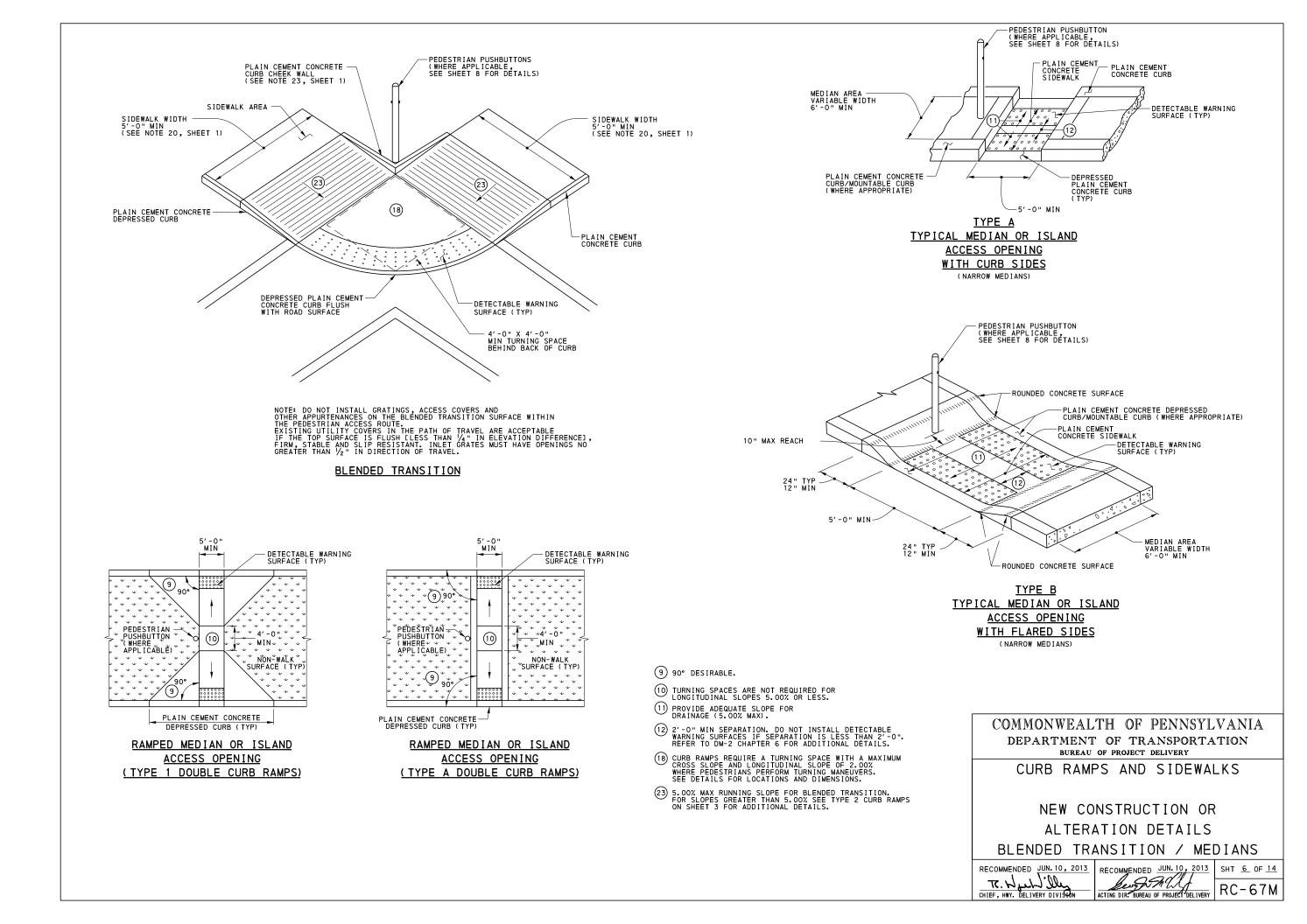


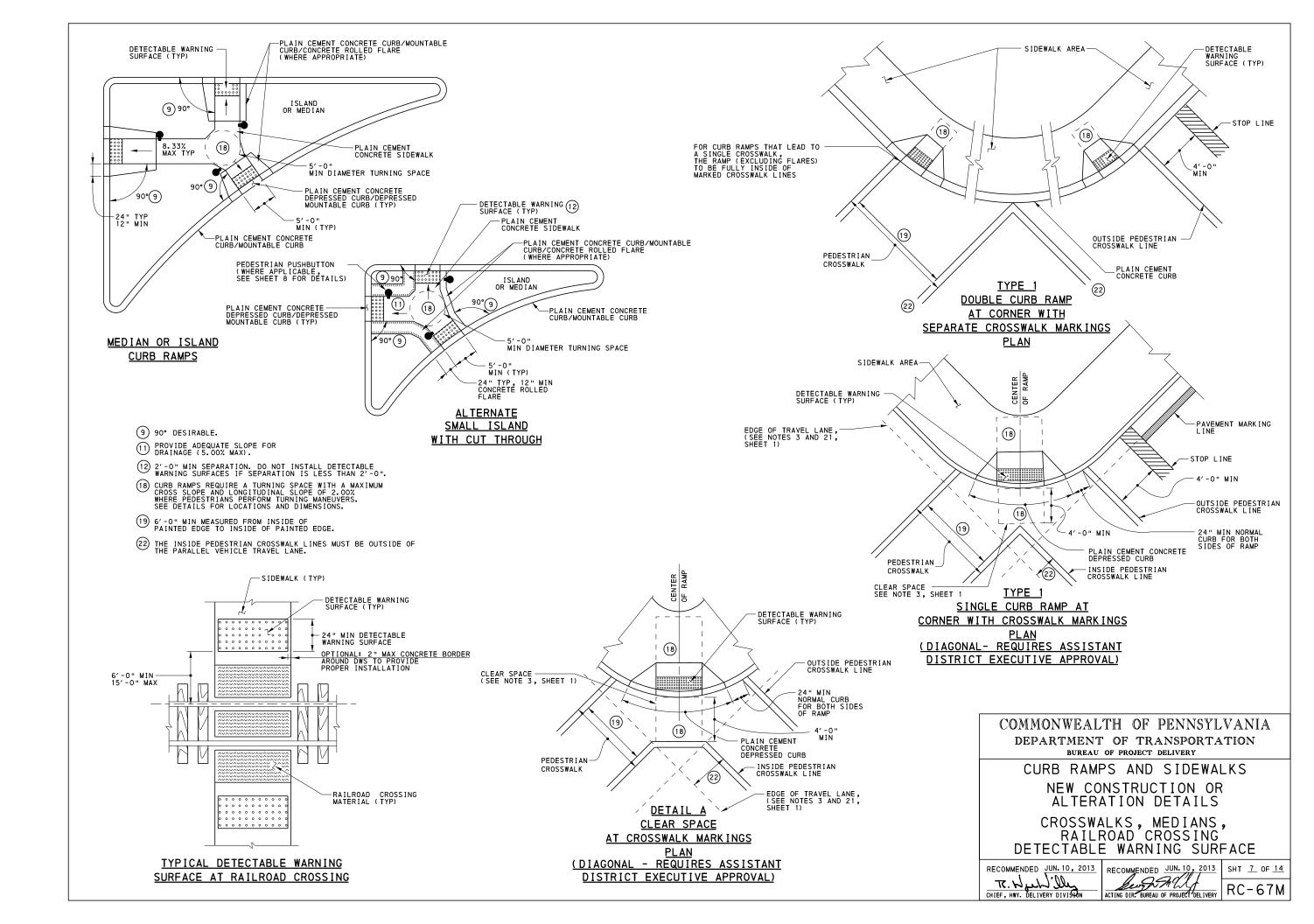


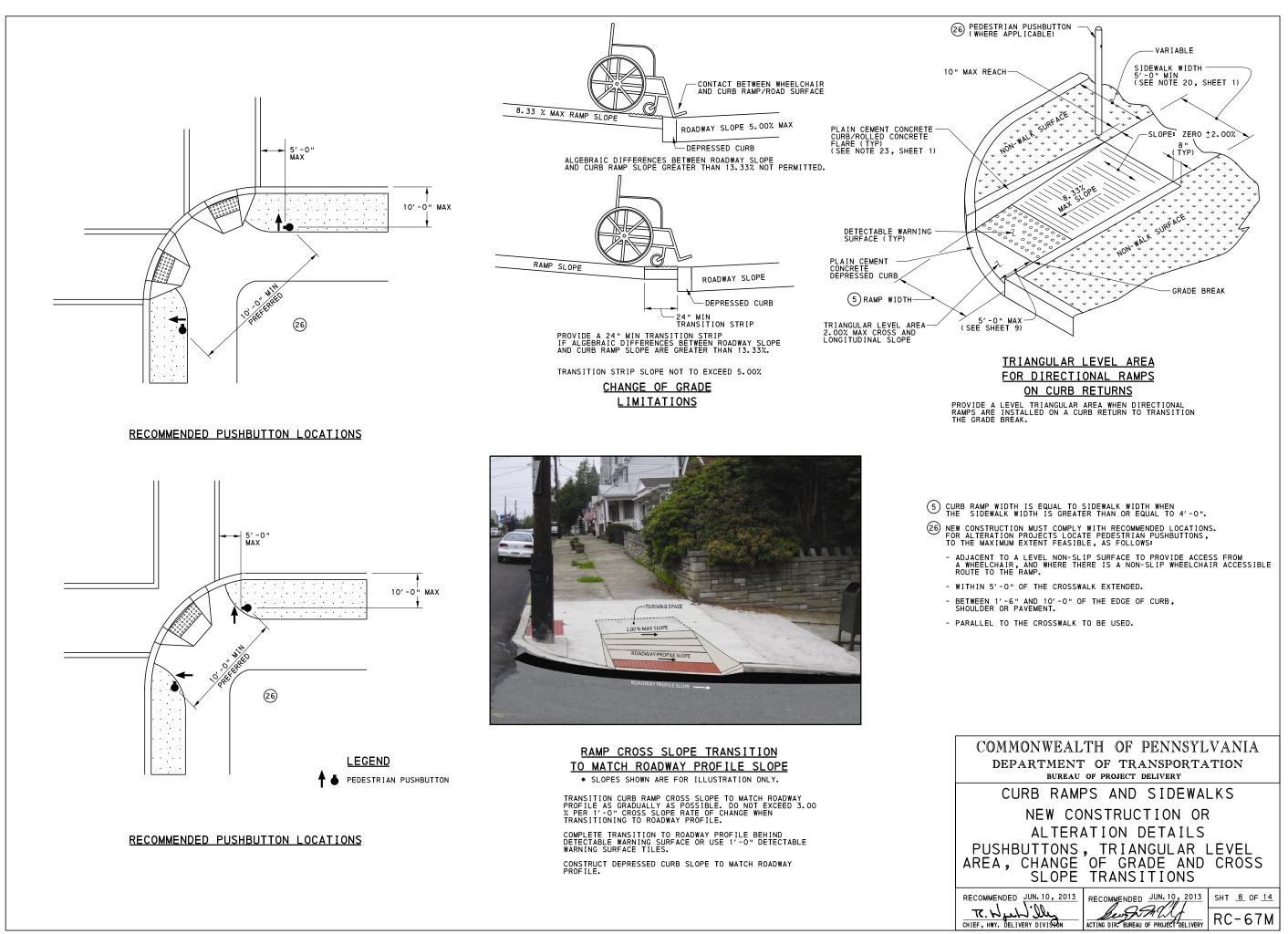
L E	PLAIN CEMENT CONCRETE CURB CHEEK WALL (SEE NOTE 23, SHEET 1)		
DEPF DEPF			
	IDED EDGE (TYP)		
	SIDEWALK WIDTH 5'-0" MIN (TYP) (SEE NOTE 20, SHEET 1)		
CURB	SLOPE: ZERO ± 2.00% (TYP)		
(WHERE AF SEE SHEET	IN PUSHBUTTON		
, , , , , , , , , , , , , , , , , , ,	Image: Constraint of the second se		
GRADE CONCRETE BREAK DEPRESSED CURB PLAIN CEMENT CONCRETE GRADE BREAK DEPRESSED CURB TO BACK OF CURB 5'-0" MAX Stope (SEE SHEET 9) (SEE SHEET 9)			
JRNING	<u>IVE APPROVAL</u> <u>SPACE_</u> IDEWALK		
	 (3) OPTIONAL CONCRETE ROLLED FLARE OR REGRADE SLOPE CAN BE USED TO MEET THE ADJACENT SURFACES IN LIEU OF PLAIN CEMENT CONCRETE CURB CHEEK WALL. SEE SHEET 4. (4) 8.33% MAX RAMP SLOPE, SEE NOTE 8 SHEET 1 (8) SLOPE: ZERO ±2.00% (18) CURB RAMPS 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. 		
	COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF TRANSPORTATION		
	BUREAU OF PROJECT DELIVERY CURB RAMPS AND SIDEWALKS		
	NEW CONSTRUCTION OR ALTERATION DETAILS		
HEET 1)	TYPE 1A AND TYPE 2 CURB RAMPS RECOMMENDED JUN. 10, 2013 RECOMMENDED JUN. 10, 2013 SHT 3 OF 14 TC. W JUN. 10, 2013 RECOMMENDED JUN. 10, 2013 SHT 3 OF 14 CHIEF, HWY. DELIVERY DIVISION RC-67M		

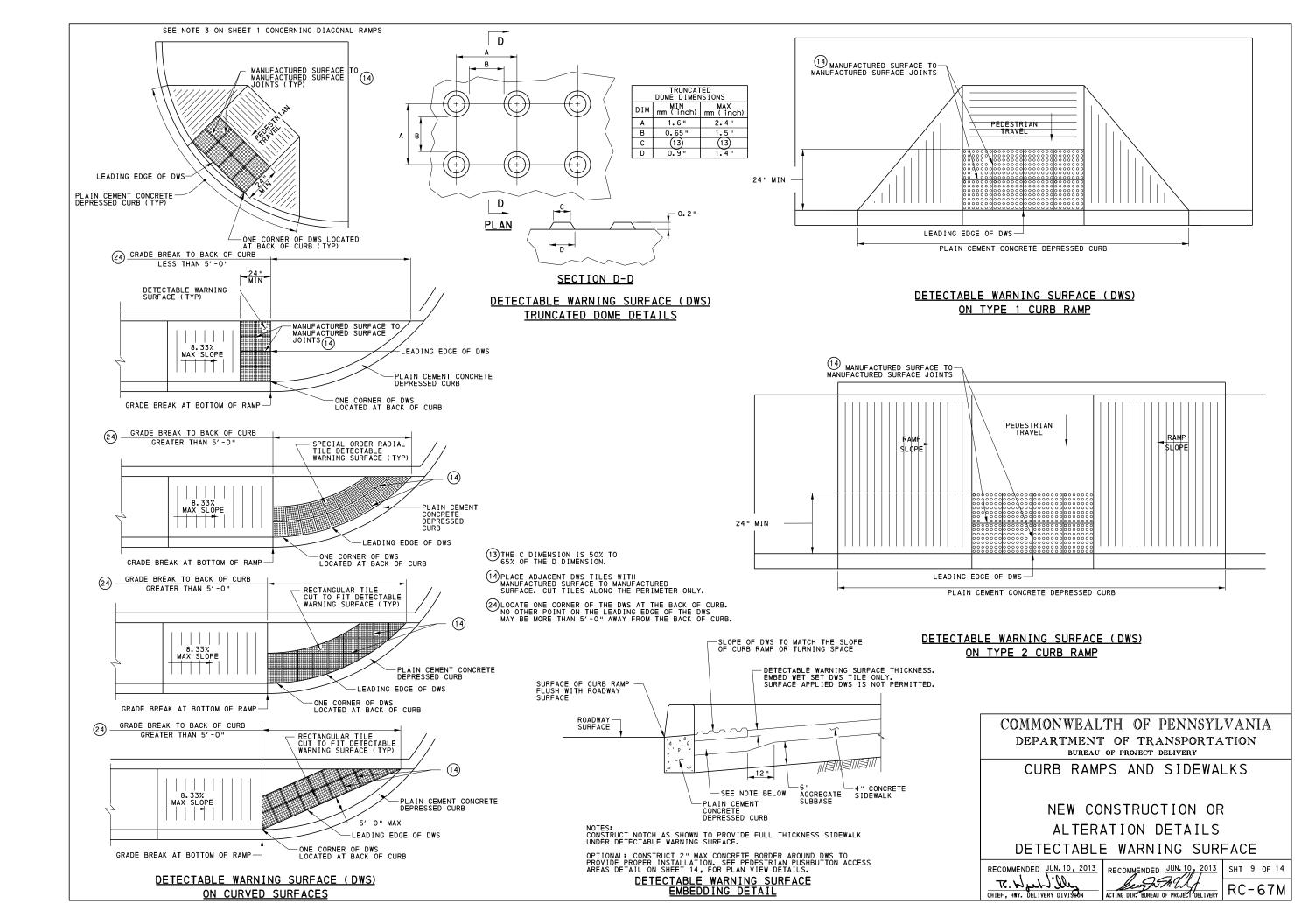


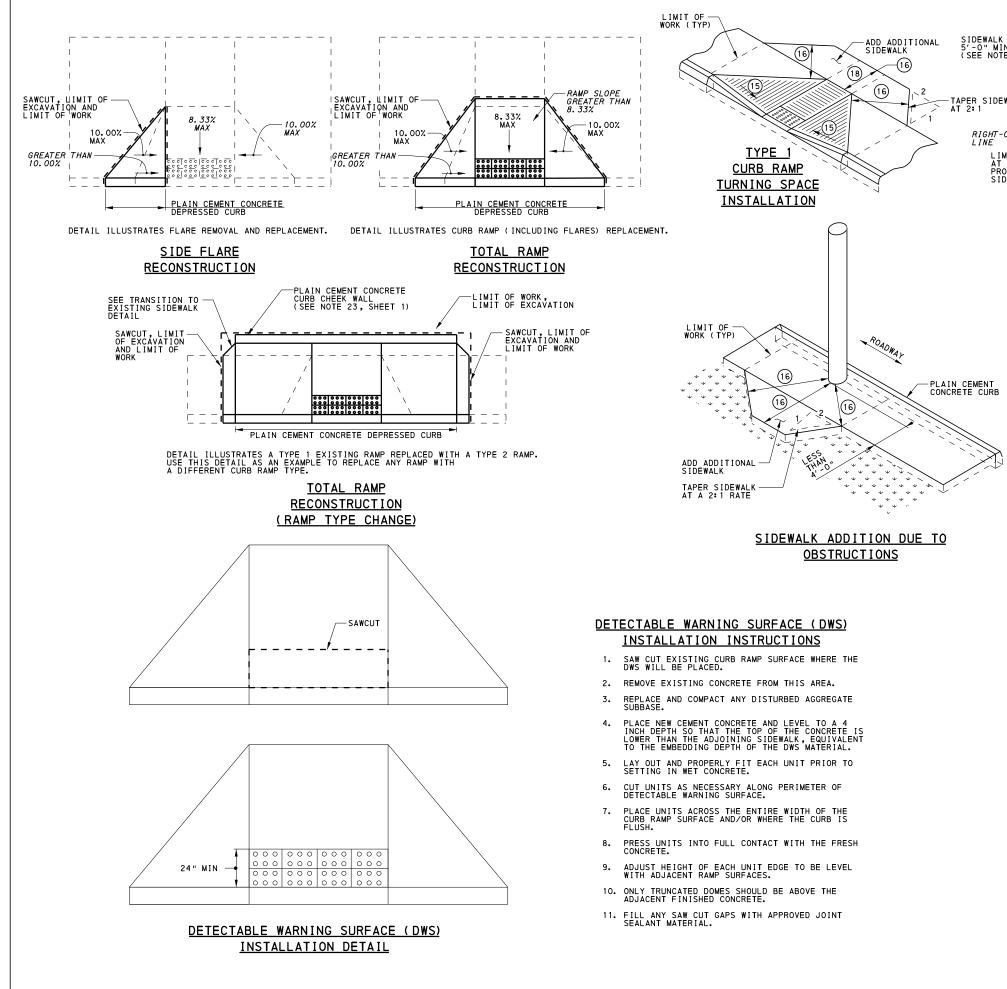




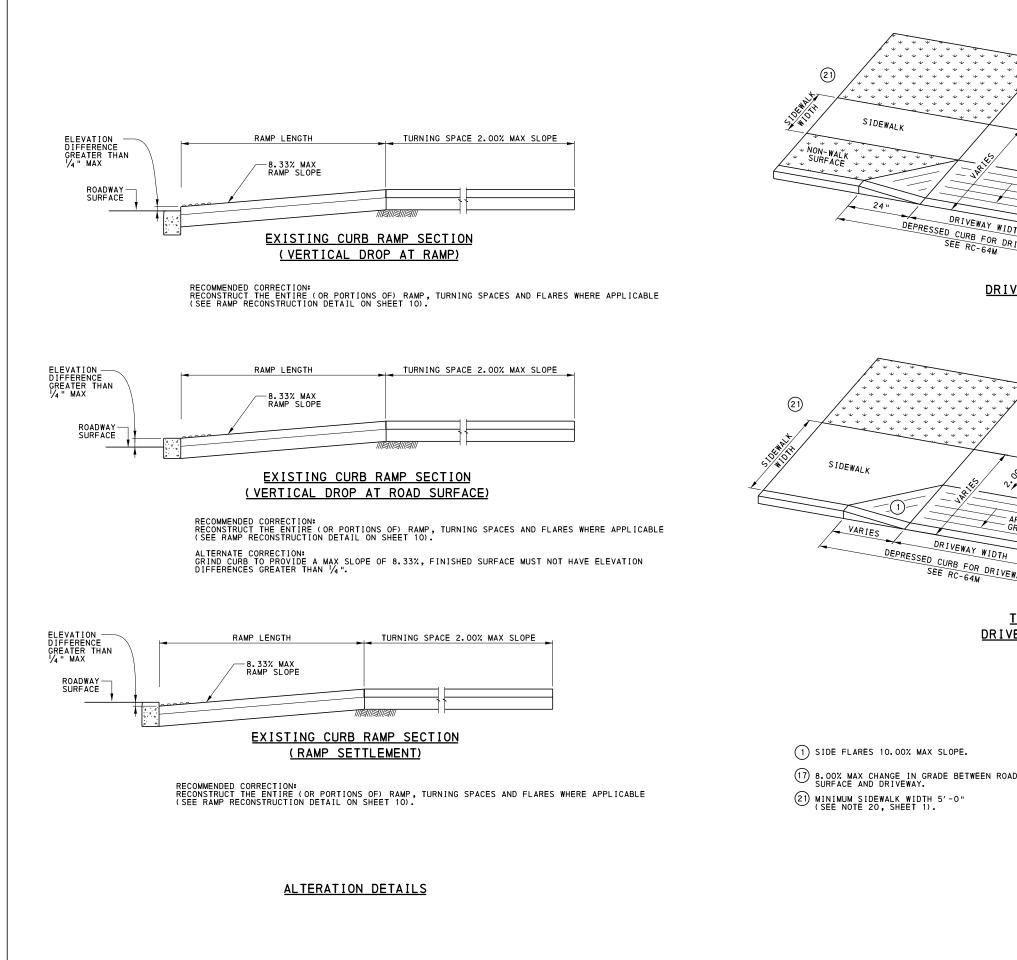




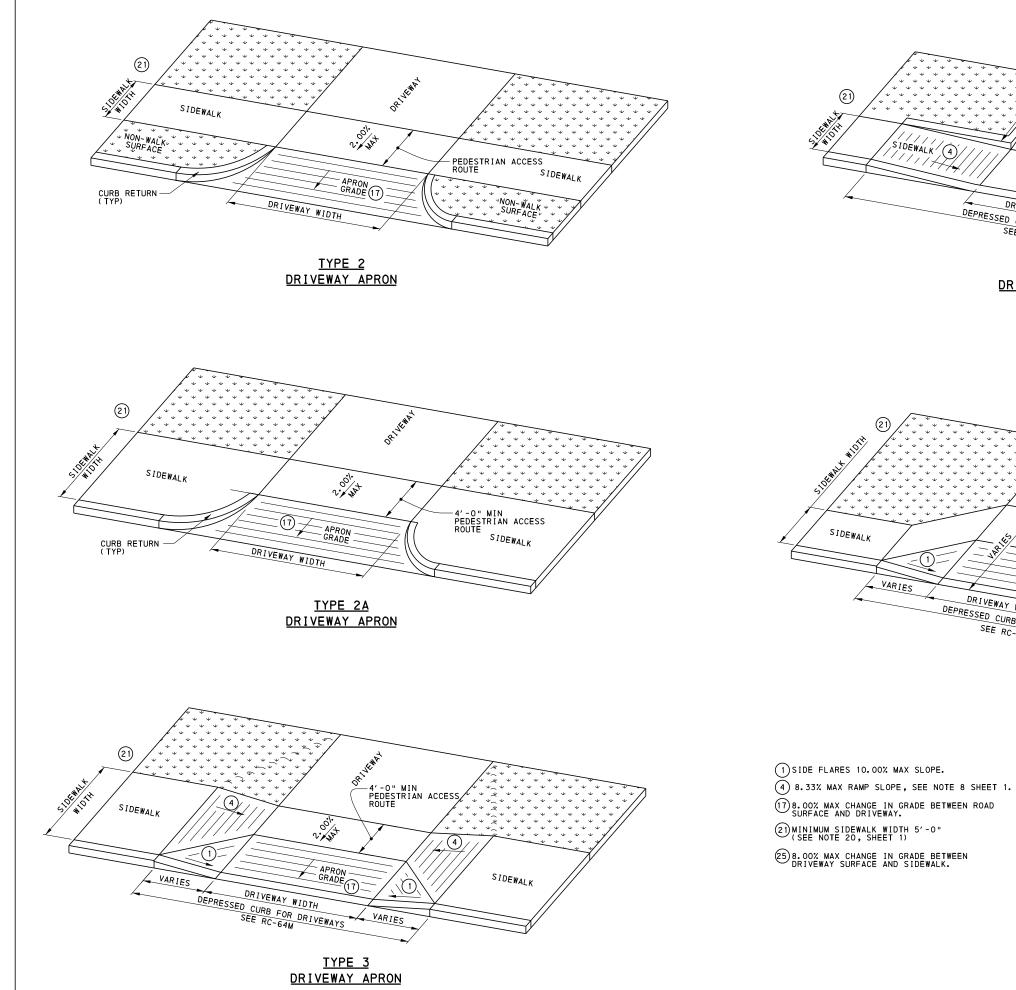




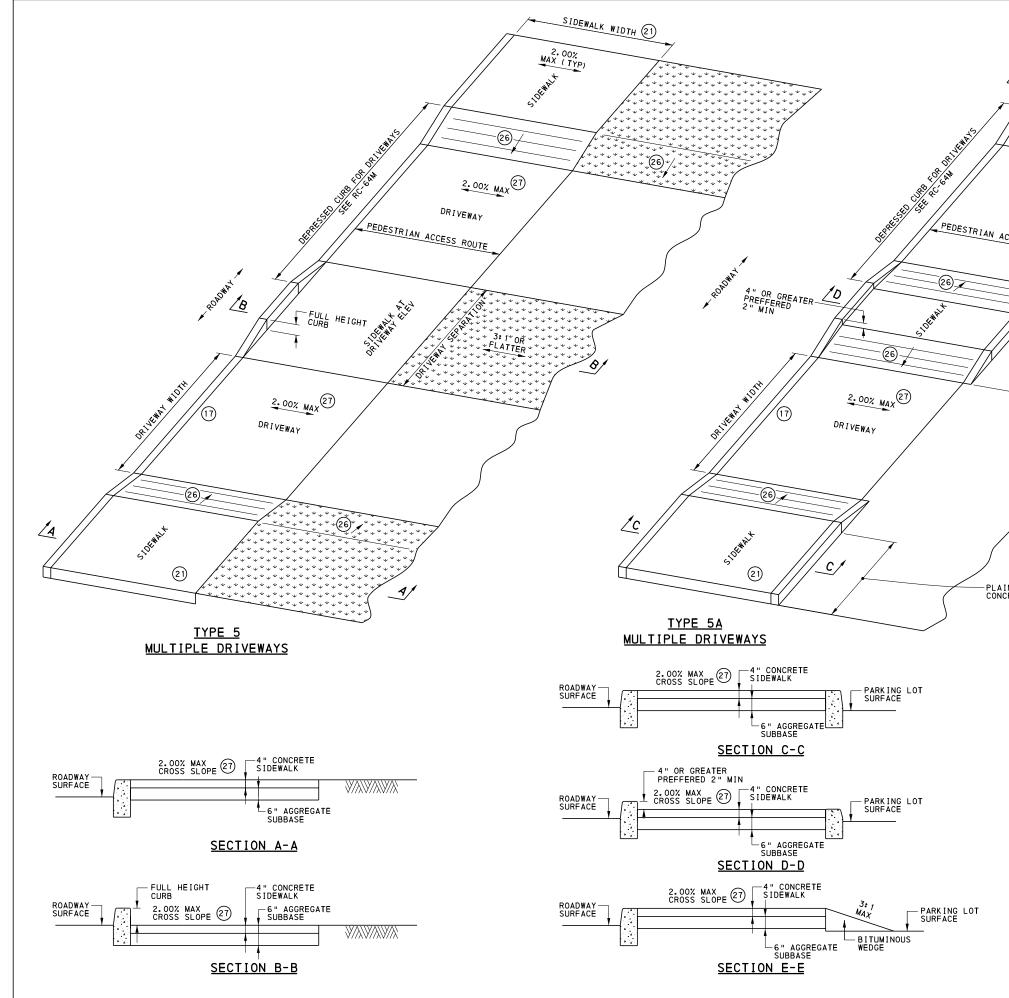
(WIDTH —	St Ope	PRO	
IN TE 20, SHE	ET 1)	PROPOSED SIDE WALK ROADWAY	
,		TANSITION * ROADWAY	
EWALK 🤺	EV SLOPE: VARIES		*
-OF-WAY-			ING SIDEWALA AIN CEMALA NGRETEMENT
			NG SIDEWALK NIN CEMENT BRETE
MIT OF WO	IRANSI		
DEWALK	TRANST TION		
	TAPER SIDEWALK		EXISTING WIDTH VARIES
	AT A 2:1 RATE MINIMUM		NSION JOINT
		<u>N TO EXISTING</u> LK DETAIL	
	* MINIMUM SLOPE TRANSITIO PROPOSED SIDEWALK CROSS CROSS SLOPE AT THE LOCA TO BE DETERMINED BY THE DELTA % SLOPE X 0.5'.	N LENGTH BASED ON THE DIFF SLOPE AND EXISTING SIDEWA TION OF TIE IN. THIS MININ FOLLOWING FORMULA:	ERENCE OF ILK IUM LENGTH
	THE MINIMUM WIDTH TRANS FOLLOWING FORMULA: CHANGE IN WIDTH X 2.	ITION SHALL BE CALCULATED	USING THE
	DEPENDING ON WHICH IS L EITHER THE SLOPE TRANS WILL CONTROL THE LENGTH	ONGEST, ITION OR WIDTH TRANSITION OF SIDEWALK TRANSITION.	
	OF THE PEDESTRIAN ACCES THE REMAINING PORTION O REMOVING THE TRANSITION	AS TEMPORARY CONNECTIONS S ROUTE. FUTURE IMPROVEMEN F EXISTING SIDEWALK SHALL AREA AND CONSTRUCTING A F	ITS TO INCLUDE ULLY
N I	COMPLIANT SIDEWALK.		
		% MAX FOR RAMPS WITH TURNI REATER.	
	SIDE FLARES 8.33% SPACES LESS THAN	REATER. MAX FOR RAMPS WITH TURNIN 4'-0".	6
	(16) 4'-0" MIN PEDESTF	RIAN ACCESS ROUTE.	
	(18) CURB RAMPS REQUID CROSS SLOPE AND L	RE A TURNING SPACE WITH A ONGITUDINAL SLOPE OF 2.000 S PERFORM TURNING MANEUVER LOCATIONS AND DIMENSIONS.	MAXIMUM %
	WHERE PEDESTRIANS SEE DETAILS FOR L	S PERFORM TURNING MANEUVER	S.
	COMMONWEAL	TH OF PENNSYL	VANIA
		OF TRANSPORTA	
		OF PROJECT DELIVERY	VC
	LOKD KAMP	S AND SIDEWAL	_N3
		ATION DETAILS	
		ATION DETAILS	
	RECOMMENDED JUN.10, 2013	RECOMMENDED JUN. 10, 2013	SHT 10 OF 14
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	CHIEF, HWY. DELIVERY DIVISION	ACTING DIR. BUREAU OF PROJECT DELIVERY	RC-67M



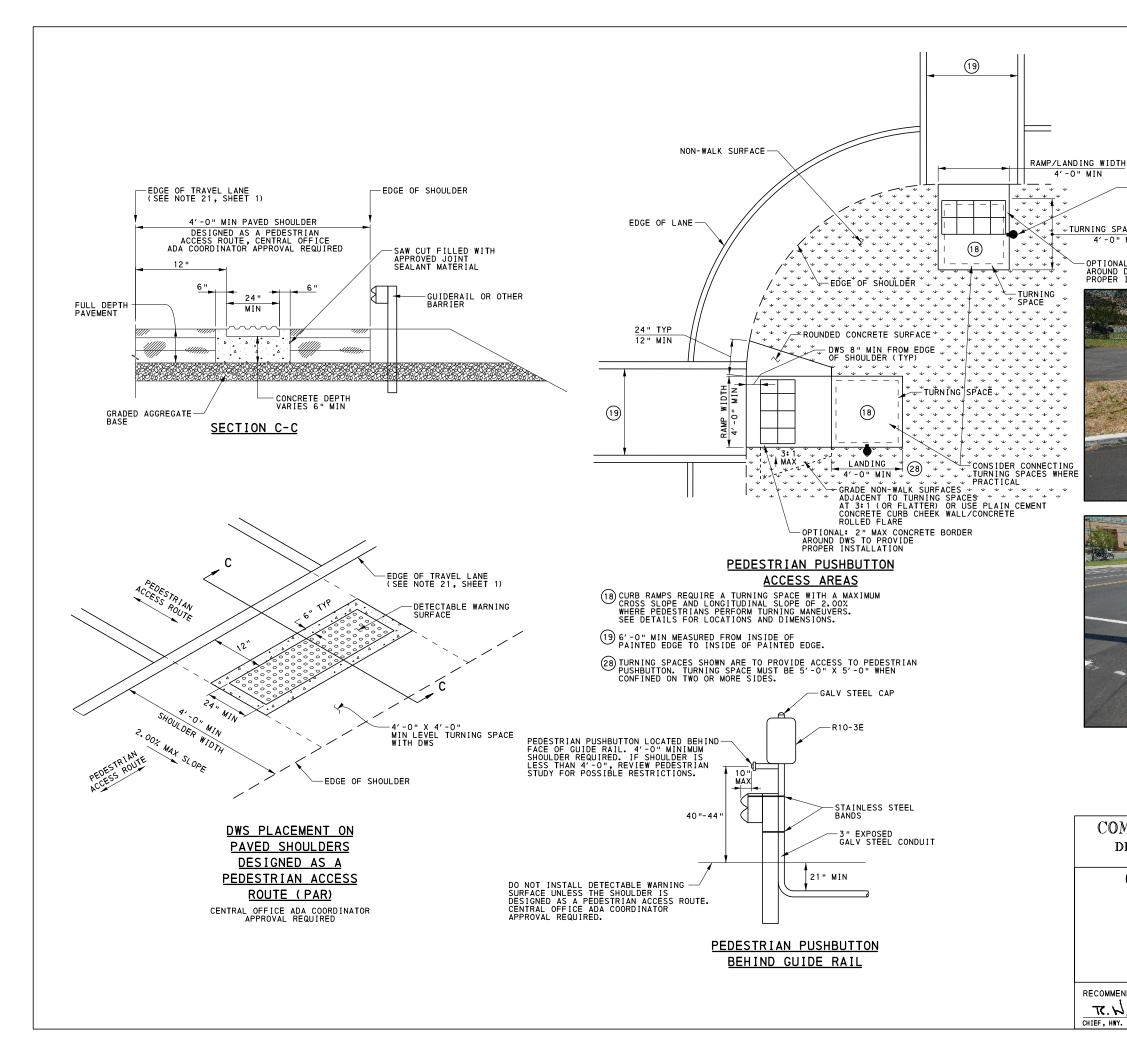
	Schutzer
- i	
2.001	
	SIDEWALK
APRON GRADE	
WIDTH	17) SURFACE
DRIVEWAYS	
<u>TYPE</u>	
RIVEWAY	APRON
* *	
* *	ap ⁴
	Relief
2: what	
	4'-O" MIN PEDESTRIAN ACCESS ROUTE SEE NOTE 20 ON SHEET 1
APRON GRADE	
	SIDEWALK
IVEWAYS	VARIES
TYPE	
IVEWAY	APRON
ROAD	COMMONWEALTH OF PENNSYLVANIA
	DEPARTMENT OF TRANSPORTATION
	BUREAU OF PROJECT DELIVERY
	CURB RAMPS AND SIDEWALKS
	ALTERATION DETAILS
	AND DRIVEWAY APRONS
-	
	RECOMMENDED JUN. 10, 2013 RECOMMENDED JUN. 10, 2013 SHT 11 OF 14 DC C74
	CHIEF, HWY. DELIVERY DIVISION ACTING DIR. BUREAU OF PROJECT DELIVERY RC-67M



	PLAIN CEMENT CONCRE	TE	
	CURB CHEEK WALL (SEE NOTE 23, SHEET	1)	
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* * * /	BRITHA		
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*///	Q4.		*
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	APRON GRADE	· · · · · · · · · · · · · · · · · · ·	· • //
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	0 ⁰¹ ++	* * * * * * *	
		4)/////////////////////////////////////	
DRIVEWAY	WIDTH	4) SIDEWALK	
CURB FOR			
EE RC-64N	DRIVEWAYS		
TYPE	<u> </u>		
TVEWA	<u>Y APRON</u>		
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	Site and street		
APF	RON		
WIDTH		SIDEWALK	
WIDTH			
RB FOR DR C-64M	IVEWAYS		
-64M			
	<u>TYPE 4</u>		
DRIVI	EWAY APRON		
•	[
	COMMONWEAL	TH OF PENNSYL	VANIA
		C OF TRANSPORTA	
			I IVIN
	I BUKEAU	OF PROJECT DELIVERY	
	CURB RAM	PS AND SIDEWA	_KS
	CURB RAM	PS AND SIDEWAU	_KS
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	DRIV	'EWAY APRONS	
			_KS
	DRIV	'EWAY APRONS	



	SIDEWALK W	Цртн (21)	
	2.00%. MAX (TYP)		
<u>[</u> []			
-#-	Sidemet		
//	-26		
2.0	0% MAX 27	- ALTERNATE SIDEWALK TO PARKING LOT TRANSITION	
DRIVEWA	x /		
CCESS ROU	re		
	7	<u> </u>	
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H			
// -			
		DRIVEWAY SEPARATI	ON, EMENT
	A CO	CONCRETE CURB	
	or or other		
	\int		
IN CEMENT CRETE CURE	17 8.00% MAX SURFACE A	CHANGE IN GRADE BETWEEN R ND DRIVEWAY. IDEWALK WIDTH 5(-0"	DAD
		IDEWALK WIDTH 5'-0" 20, SHEET 1). E LESS THAN 5.00% PREFERRE , SEE NOTE 8 SHEET 1.	ο,
	\sim	SITIVE DRAINAGE.	
COMMONWEALTH OF PENNSYLVANIA			
DEPARTMENT OF TRANSPORTATION BUREAU OF PROJECT DELIVERY			
		PS AND SIDEWA	LKS
DRIVEWAY APRONS			
	RECOMMENDED JUN. 10, 2013	RECOMMENDED JUN. 10, 2013	SHT <u>13</u> OF <u>14</u>
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	COMMONWEALTH OF PENNSYLVANIA
	DEPARTMENT OF TRANSPORTATION bureau of project delivery
	CURB RAMPS AND SIDEWALKS
	DWS PLACEMENT ON
	PAVED SHOULDERS AND AT
	PEDESTRIAN PUSHBUTTONS
·	RECOMMENDED JUN. 10, 2013 RECOMMENDED JUN. 10, 2013 SHT 14 OF 14
	TT. Nyewilly CHIEF, HWY. DELIVERY DIVISION ACTING DIR. BUREAU OF PROJECT DELIVERY RC-67M

PEDESTRIAN PUSHBUTTON (WHERE APPLICABLE, SEE SHEET 8 FOR DETAILS)

OPTIONAL: 2" MAX CONCRETE BORDER AROUND DWS TO PROVIDE PROPER INSTALLATION

TURNING SPACE LENGTH

4'-0" MIN