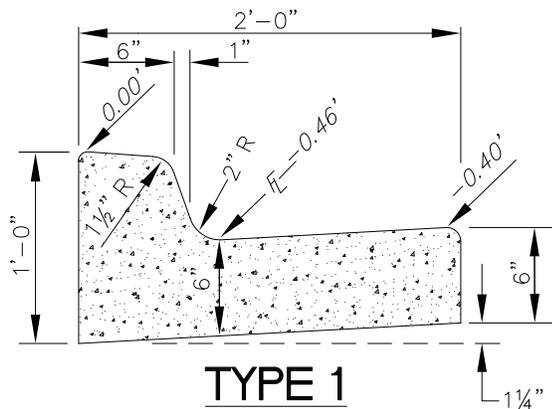
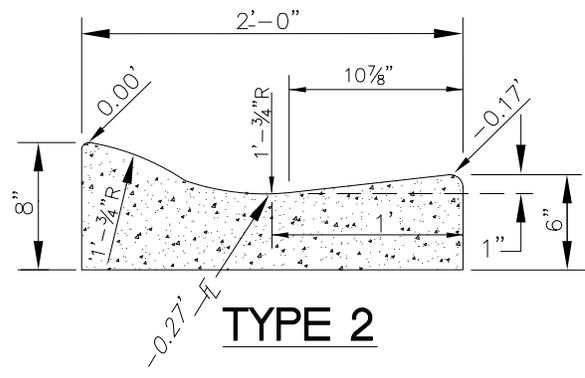


**STANDARD CONSTRUCTION SPECIFICATIONS  
MISCELLANEOUS  
DIVISION 30  
INDEX OF STANDARD DETAILS**

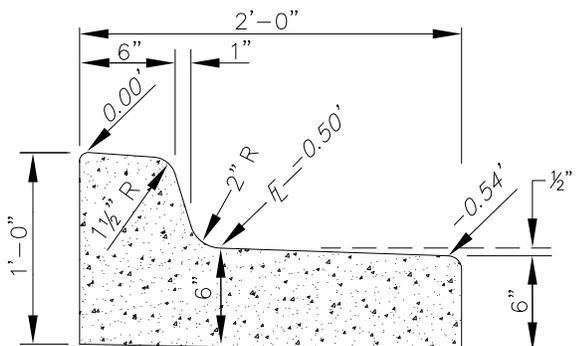
30-1	Curb and Gutter Cross Sections
30-2	Curb and Gutter Termination Transition
30-3	Typical Section - Valley Gutter
30-4	Typical Section - Median/Curb Nose
30-5	Steel Curb Facing
30-6	Driveway Curb-cut with Attached Sidewalk
30-7	Driveway Curb Return with Attached Sidewalk
30-8	Perpendicular Curb Ramp
30-9	Parallel Curb Ramp
30-10	Accessible (Type 1A/2A) Curb and Gutter Sections
30-11	Curb Ramp Clearances
30-12	Pedestrian Push Button Access (not used)
30-13	Curb Type Retaining Wall - 2' to 3'
30-14	Sidewalk Retaining Wall - 6" to 24"
30-15	Sidewalk Retaining Wall - 2' to 5'



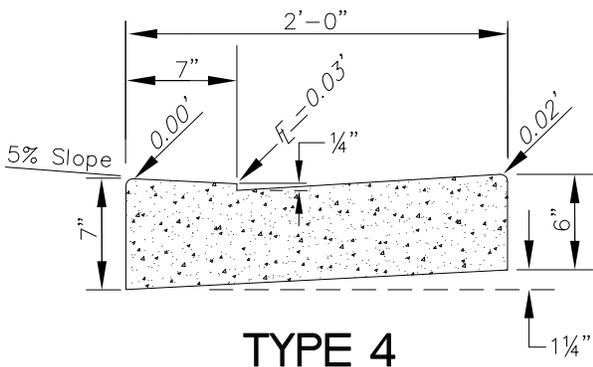
**TYPE 1**



**TYPE 2**

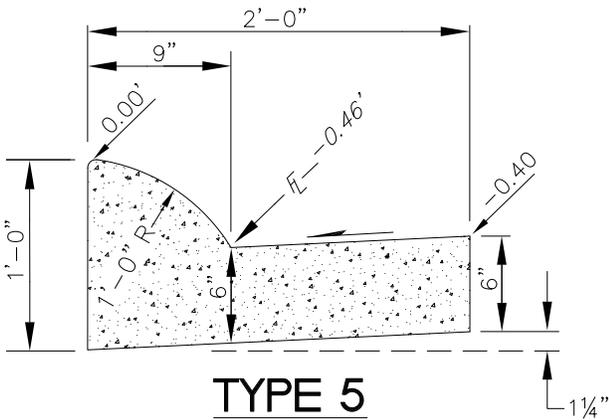


**TYPE 3**

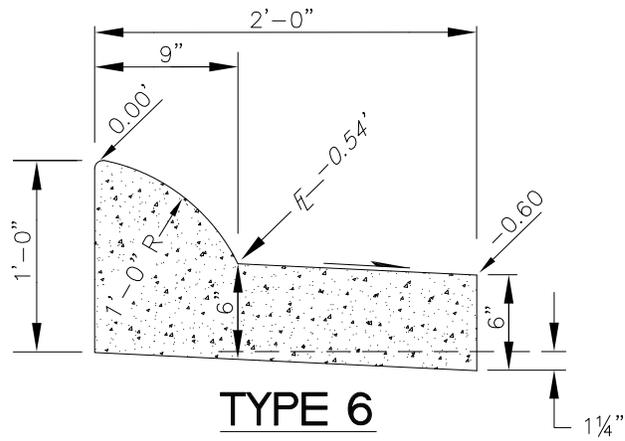


**TYPE 4**

(USED AT CURB CUTS)



**TYPE 5**



**TYPE 6**

NOTE:

TROWEL BOTH FRONT AND BACK EDGES OF THE CURB & GUTTER TO A RADIUS OF ONE-HALF (1/2) INCH.

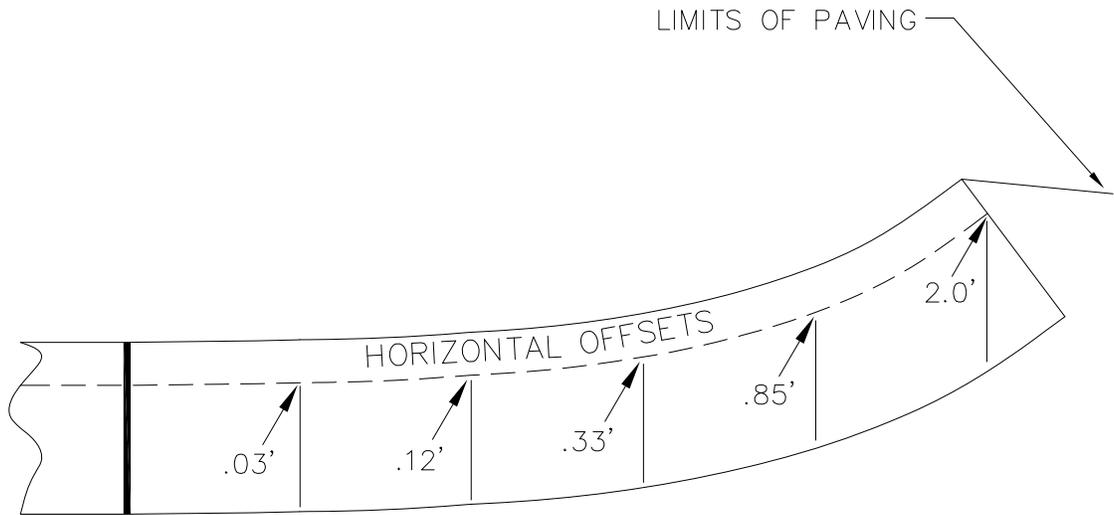
FILE.DWG



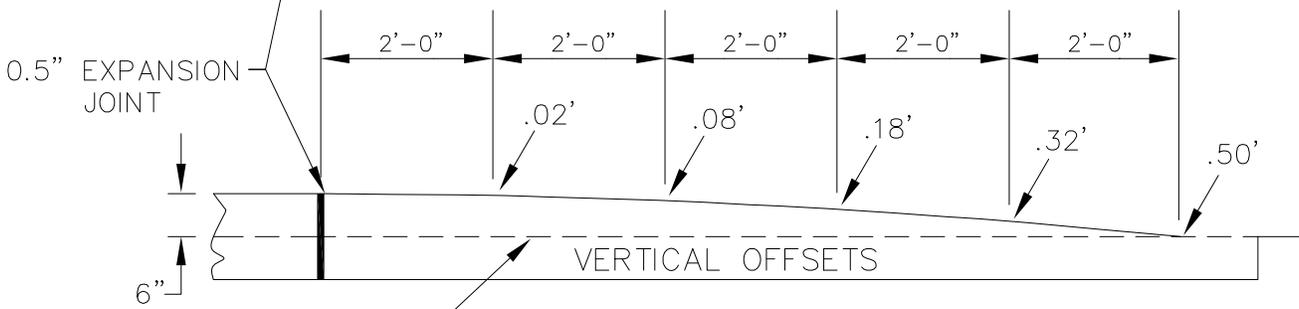
SCALE:  
NTS  
APPROVED:  
REVISED:  
4/12

**CURB AND GUTTER  
CROSS SECTIONS**

SECTION #  
30.02  
DETAIL #  
30-1



**PLAN**



**PROFILE**

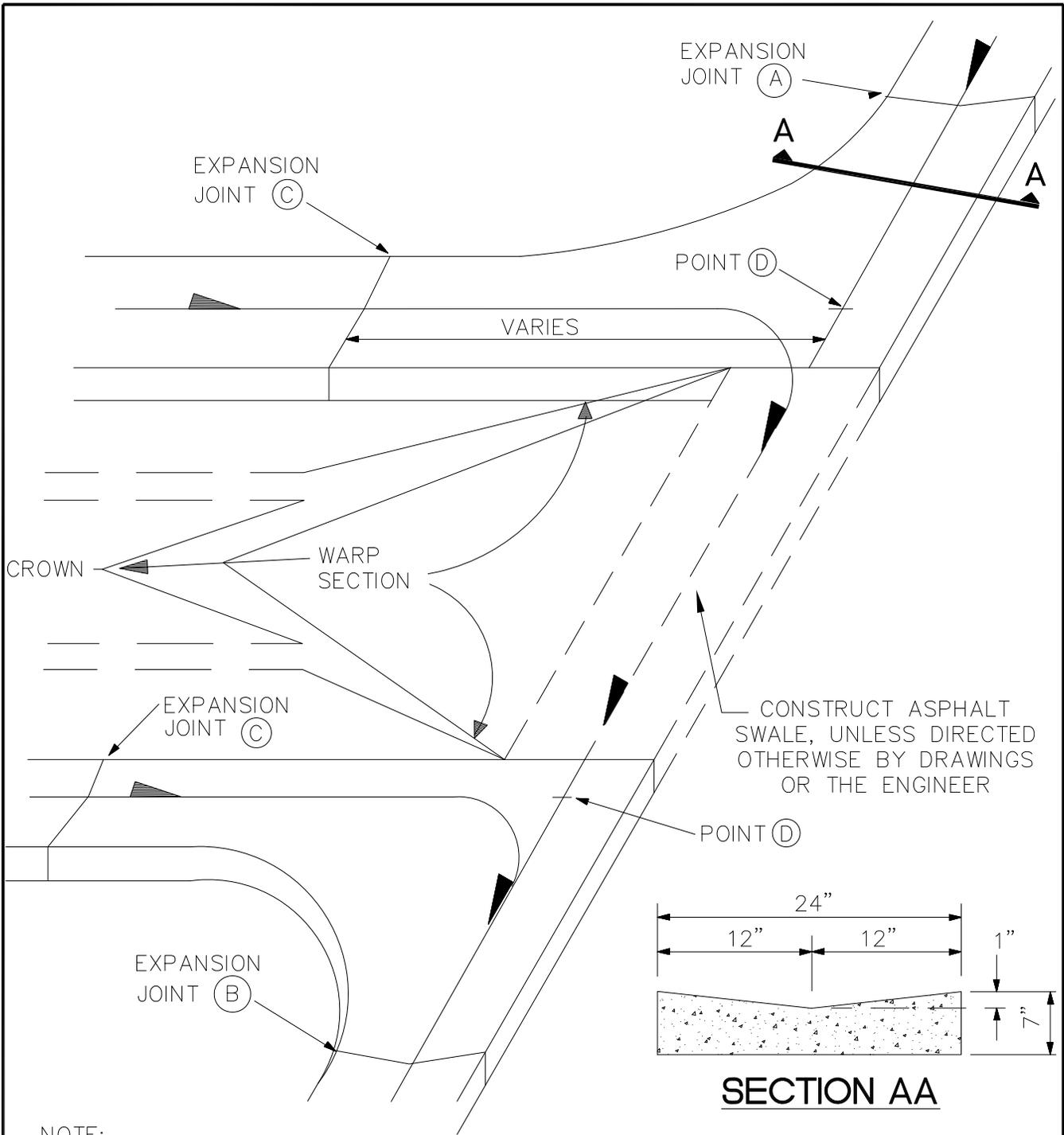
FILE.DWG



SCALE:  
NTS  
APPROVED:  
REVISED:  
4/12

**CURB AND GUTTER  
TERMINATION TRANSITION**

SECTION #  
30.02  
DETAIL #  
30-2



**NOTE:**

VALLEY GUTTER SHALL BE PAID PER LINEAR FOOT UNDER BID ITEM "VALLEY GUTTER". MEASURE LENGTHS ALONG THE STRAIGHT FLOW LINE FROM EXPANSION JOINTS "A" AND "B" TO POINT "D" AND ON BOTH SIDES FROM EXPANSION JOINT "C" TO THE POINT "D". THE STREET SECTION SHALL BE MEASURED FROM POINT "D" TO POINT "D". IF P.C.C., THE STREET SECTION SHALL BE INCLUDED UNDER BID ITEM "VALLEY GUTTER". IF ASPHALT, THE STREET SECTION COST SHALL BE INCLUDED UNDER THE APPROPRIATE PAVING BID ITEM.

FILE.DWG



SCALE:  
NTS

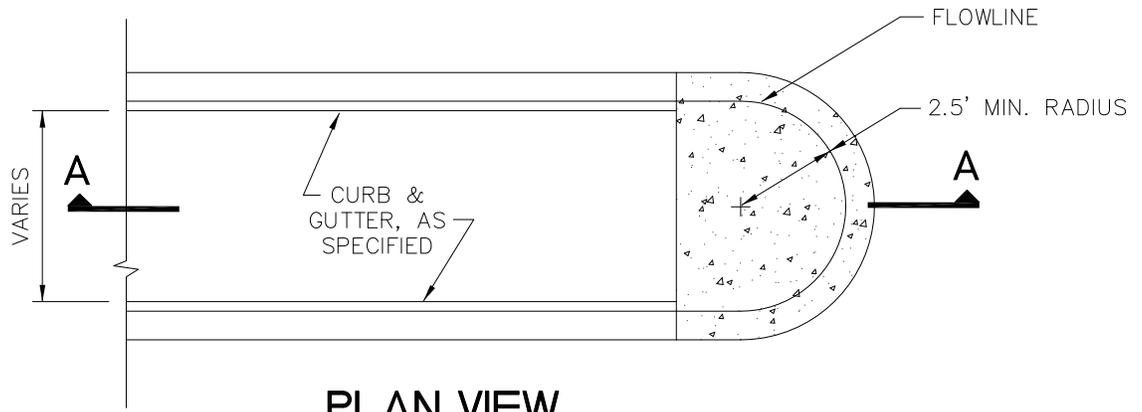
APPROVED:

REVISED:  
4/12

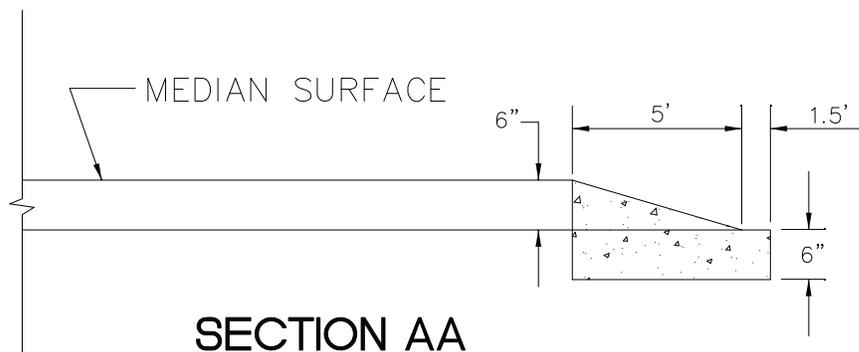
# TYPICAL SECTION VALLEY GUTTER

SECTION #  
30.02

DETAIL #  
30-3



**PLAN VIEW**



**SECTION AA**

NOTE:

PAINT MEDIAN AND CURB NOSE WITH YELLOW TRAFFIC PAINT, THE PAINT SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CURB NOSE".



SCALE:  
NTS

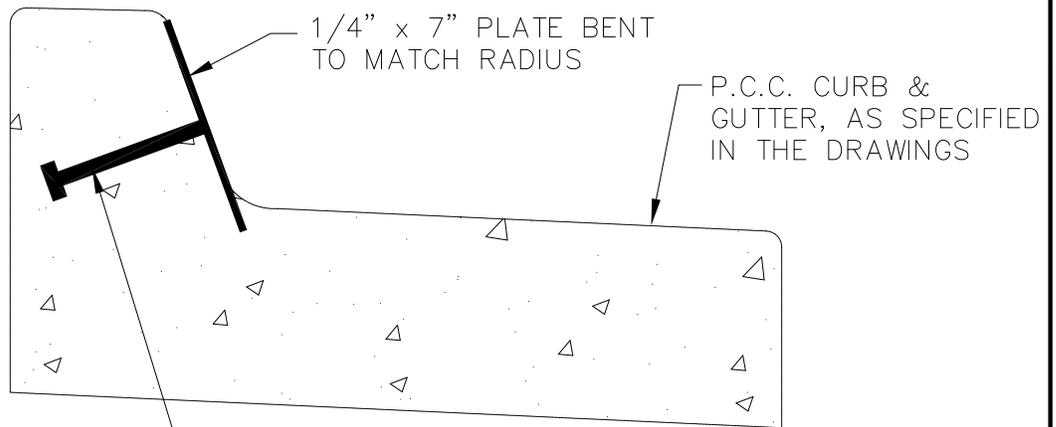
APPROVED:

REVISED:  
4/12

**TYPICAL SECTION  
MEDIAN/CURB NOSE**

SECTION #  
30.02

DETAIL #  
30-4



1/2"Ø STUDS @ 12" O.C.

NOTES:

1. BEND LEADING AND TRAILING EDGES 90° AND EMBED IN CONCRETE 1" MINIMUM.
2. STEEL CURB FACING SHALL BE INSTALLED ONLY IN LOCATIONS WHERE THERE IS A CURVILINEAR TRANSITION TO THE CURB FACE SUCH AS IN A CURB BULB OR TRANSIT PULL-OUT.



SCALE:  
NTS

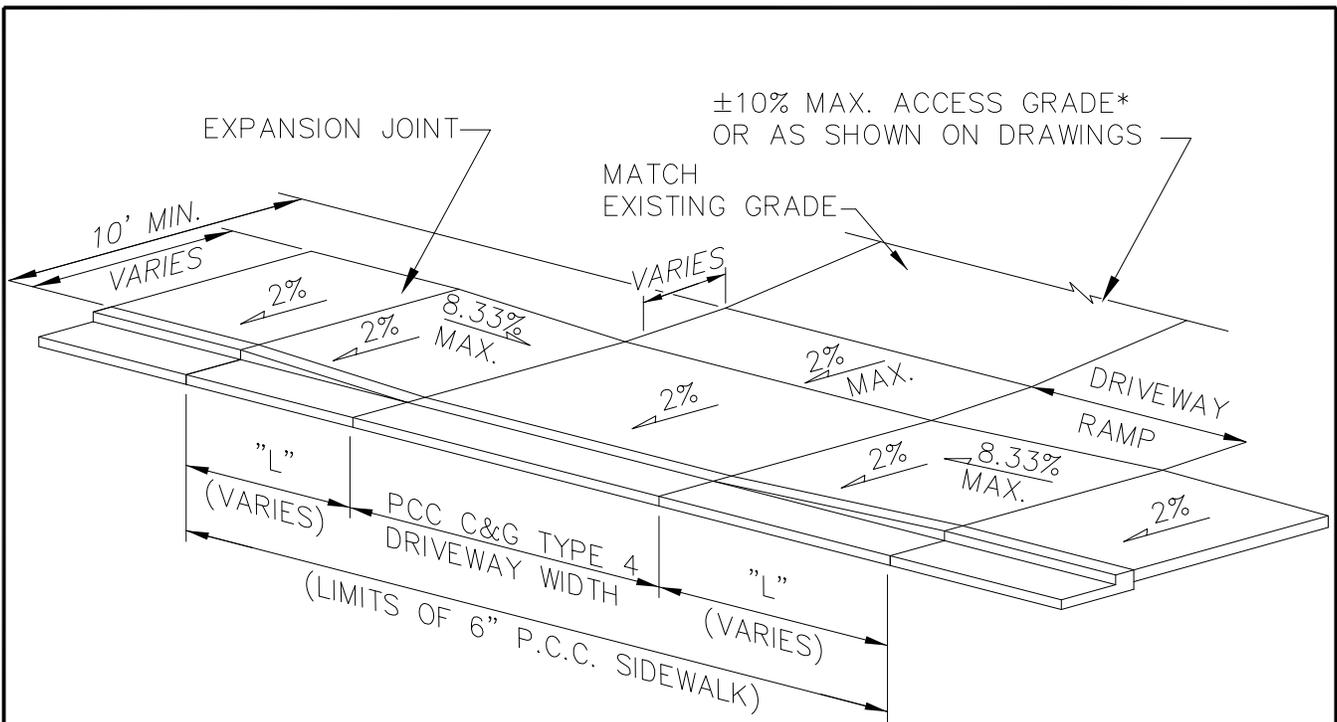
APPROVED:

REVISED:  
4/12

## STEEL CURB FACING

SECTION #  
30.02

DETAIL #  
30-5



**TYPICAL DRIVEWAY ENTRANCE  
(WITH ATTACHED SIDEWALK)**

DRIVEWAY RAMP RUNNING SLOPE TABLE		
STREET RUNNING SLOPE	MINIMUM UPHILL RAMP LENGTH "L"	MINIMUM DOWNHILL RAMP LENGTH "L"
0.0% TO 0.5%	6.0'	6.0'
> 0.5% TO 1.6%	7.0'	6.0'
> 1.6% TO 2.4%	8.0'	5.0'
> 2.4% TO 3.1%	9.0'	5.0'
> 3.1% TO 3.6%	10.0'	5.0'
> 3.6% TO 4.0%	11.0'	4.0'
> 4.0% TO 4.4%	12.0'	4.0'
> 4.4% TO 4.7%	13.0'	4.0'
> 4.7% TO 5.0%	14.0'	4.0'
> 5.0%	15.0'	4.0'

\* MAXIMUM ALGEBRAIC DIFFERENCE IS 8% ON COMMERCIAL/INDUSTRIAL DRIVEWAYS.

FILE.DWG



SCALE:  
NTS

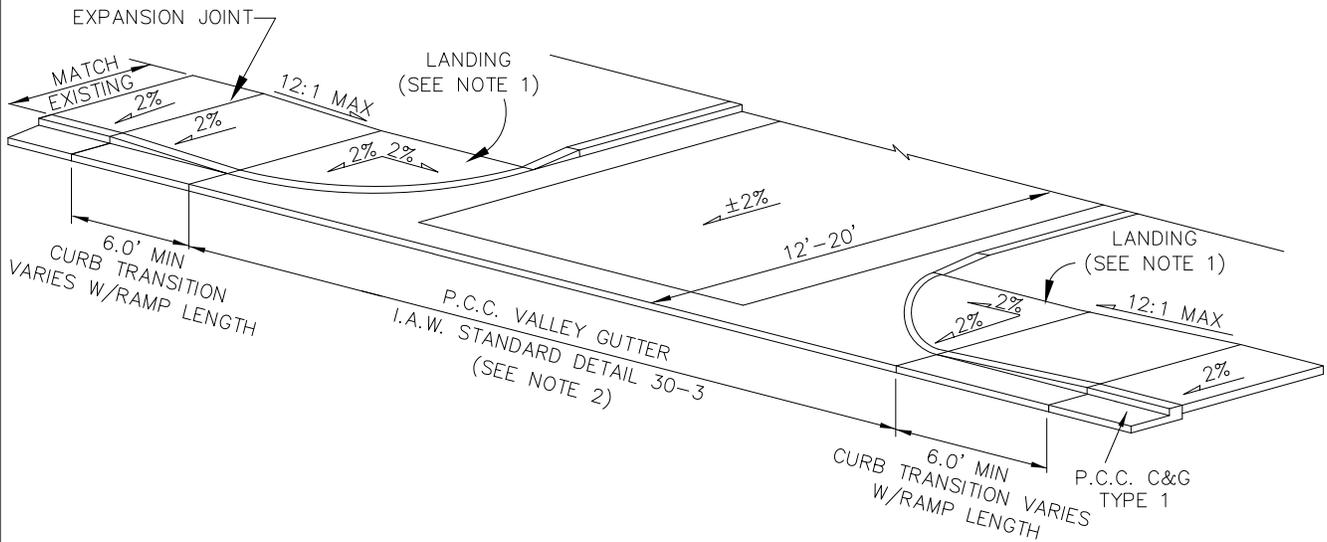
APPROVED:

REVISED:  
4/12

**DRIVEWAY CURB-CUT  
WITH ATTACHED  
SIDEWALK**

SECTION #  
30.03

DETAIL #  
30-6



NOTES:

1. SIZE LANDING TO MEET ADA REQUIREMENTS.
2. P.C.C. VALLEY GUTTER TO BE CONSTRUCTED ON COMMERCIAL/INDUSTRIAL STREETS, ARTERIALS, AND COLLECTORS. ASPHALT CONCRETE SWALES TO BE CONSTRUCTED ON LOCAL OR RESIDENTIAL ROADWAYS. CONTRACTOR TO DEPRESS LIPS OF GUTTER TO ENSURE ADEQUATE DRAINAGE.

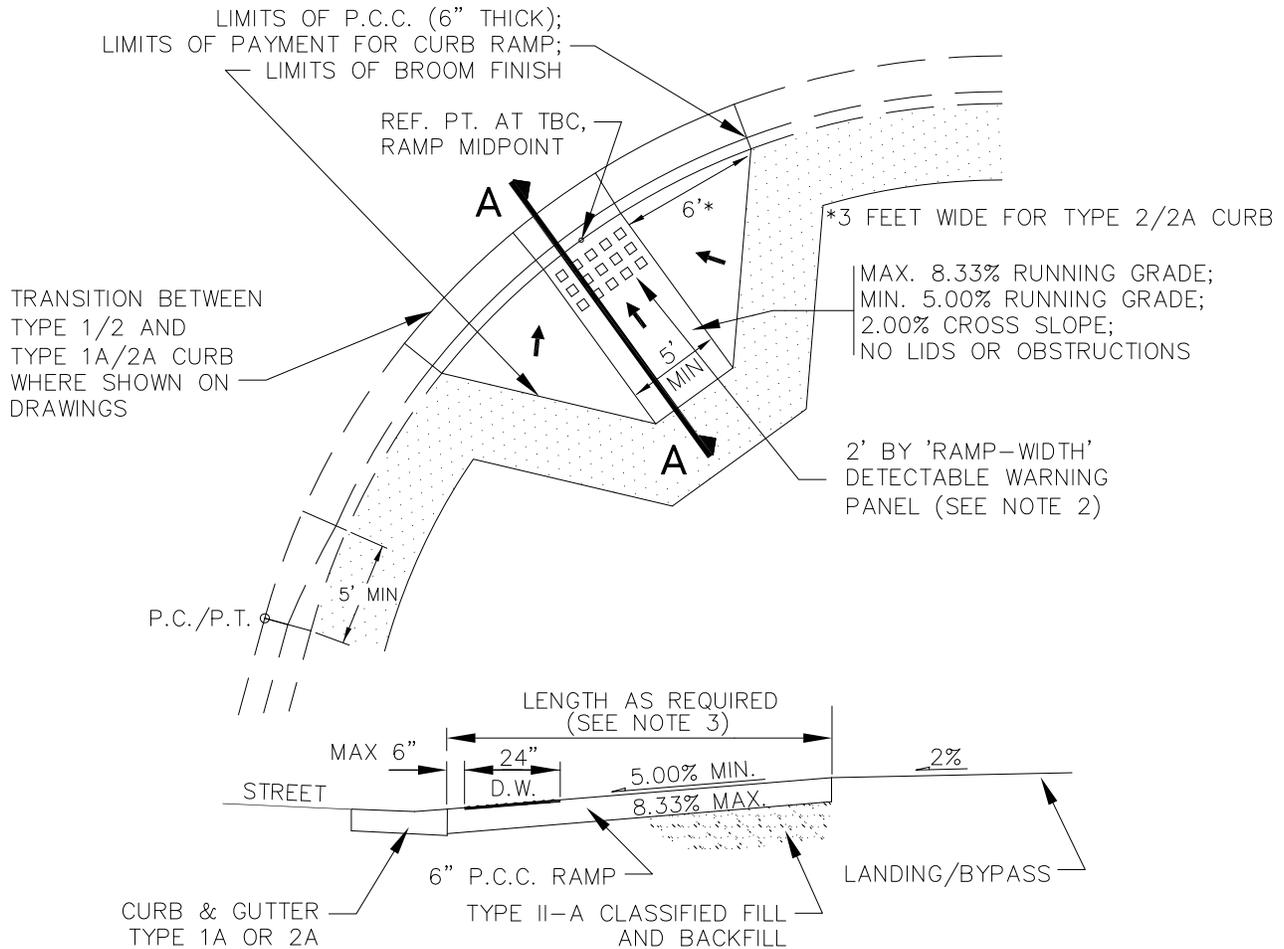
FILE.DWG



SCALE:  
NTS  
APPROVED:  
REVISED:  
4/12

**DRIVEWAY CURB RETURN  
WITH ATTACHED  
SIDEWALK**

SECTION #  
30.03  
DETAIL #  
30-7



### SECTION AA

**NOTES:**

1. CONSTRUCT PERPENDICULAR RAMPS AND FLARES WITH A BROOM FINISH PARALLEL TO THE CURB.
2. INSTALL DETECTABLE WARNING PANELS (D.W.) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH SURROUNDING CONCRETE. NO LIP IS ALLOWED AT THE EDGE OF THE DETECTABLE WARNINGS.
3. RAMP LENGTH REQUIRED FOR A TYPICAL SIDEWALK IS 8.0' FOR A TYPE 1/1A CURB, AND 4.0' FOR A TYPE 2/2A CURB. LENGTH VARIES FOR SIDEWALKS WITH DETACHED AND/OR INDEPENDENT GRADES. SEE DRAWINGS FOR NON-STANDARD RAMP LENGTHS.
4. TRIM OUTSIDE EDGES AND JOINTS OF RAMP AND FLARES WITH ONE-QUARTER INCH (1/4") RADIUS EDGING TOOL.
5. SEE DRAWINGS FOR REFERENCE POINT STATION AND OFFSET.
6. WHEN NO CONNECTING SIDEWALK, THE BY-PASS MUST CONTINUE AROUND THE RAMP BEFORE TERMINATING IN SIDE STREET.

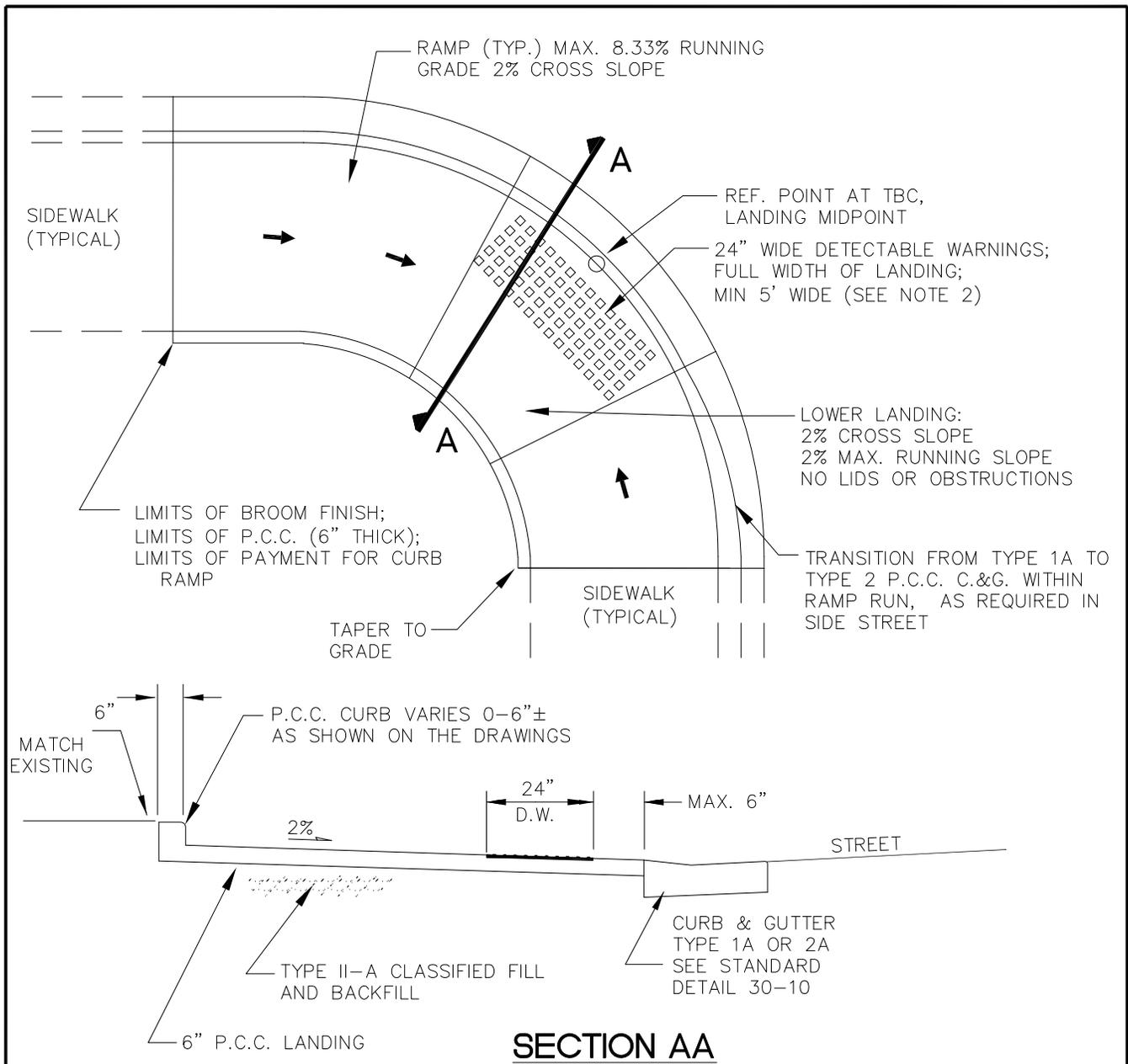
FILE.DWG



SCALE:  
NTS  
  
APPROVED:  
  
  
REVISED:  
4/12

## PERPENDICULAR CURB RAMP

SECTION #  
30.04  
  
DETAIL #  
30-8



**SECTION AA**

NOTES:

1. RAMP LENGTHS AND REFERENCE POINT STATION AND OFFSET SHALL BE AS SHOWN ON DRAWINGS.
2. INSTALL DETECTABLE WARNINGS (D.W.) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. NO LIP IS ALLOWED AT THE EDGE OF THE DETECTABLE WARNINGS.
3. CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH PERPENDICULAR TO CURB.

FILE.DWG



SCALE:  
NTS

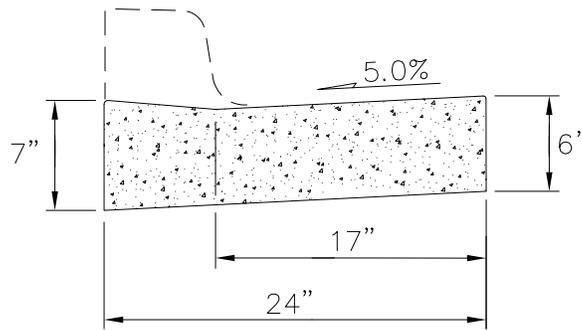
APPROVED:

REVISED:  
4/12

**PARALLEL CURB  
RAMP**

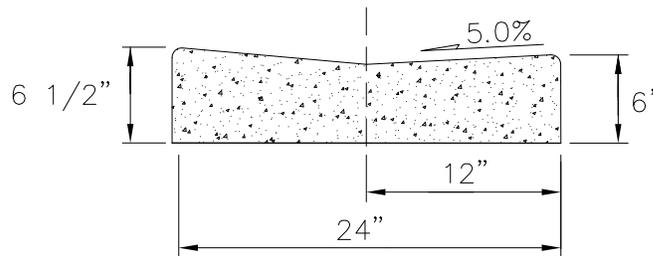
SECTION #  
30.04

DETAIL #  
30-9



**P.C.C. CURB AND GUTTER  
TYPE 1A**

(FOR USE IN CURB RAMPS)



**P.C.C. CURB AND GUTTER  
TYPE 2A**

(FOR USE IN CURB RAMPS)

NOTES:

1. TRANSITION CURBS TO MAINTAIN CONSTANT FLOWLINE ACROSS CURB RAMP AND AROUND CURB RETURN PER THE DRAWINGS.



SCALE:  
NTS

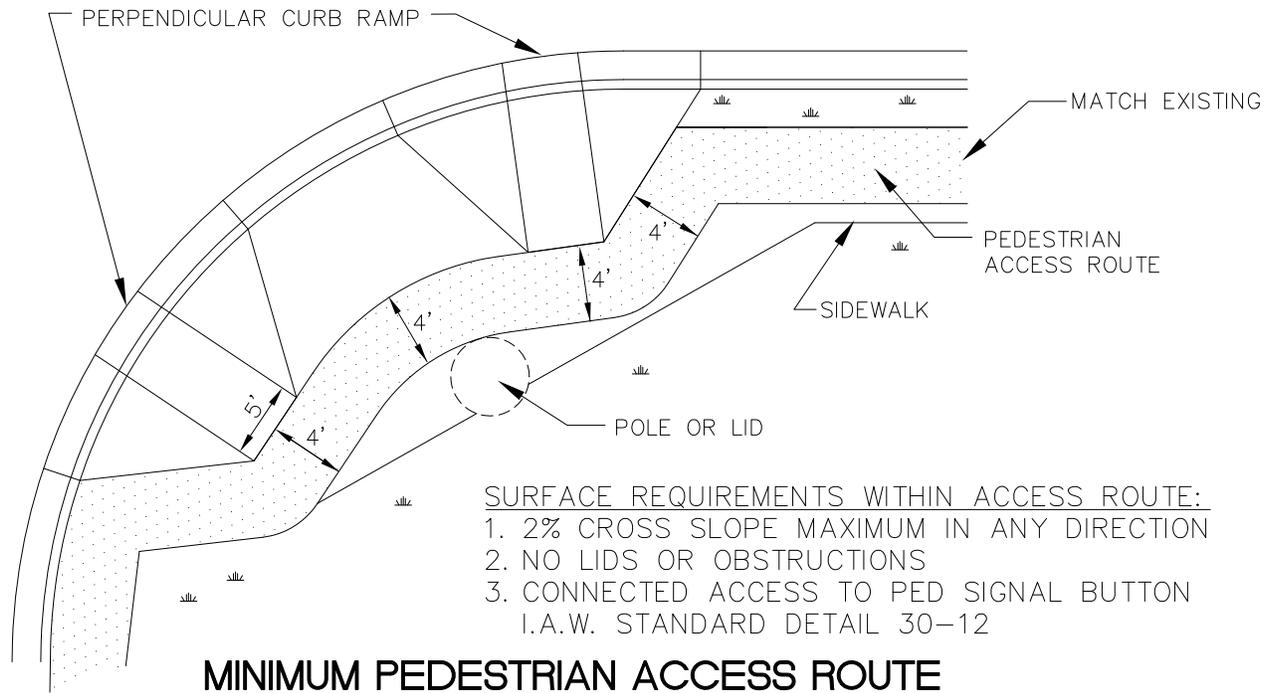
APPROVED:

REVISED:  
4/12

**ACCESSIBLE (TYPE 1A/2A)  
CURB AND GUTTER  
SECTIONS**

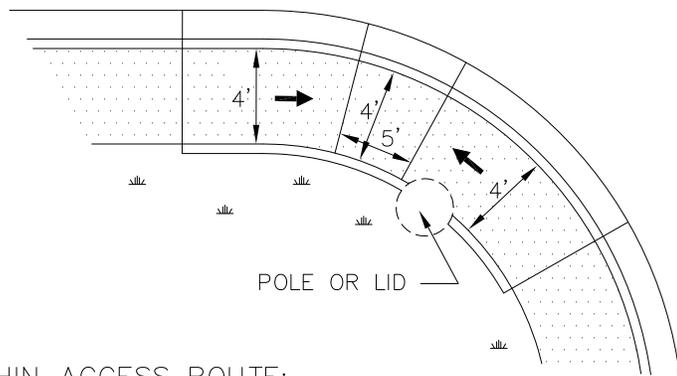
SECTION #  
30.04

DETAIL #  
30-10



SURFACE REQUIREMENTS WITHIN ACCESS ROUTE:  
 1. 2% CROSS SLOPE MAXIMUM IN ANY DIRECTION  
 2. NO LIDS OR OBSTRUCTIONS  
 3. CONNECTED ACCESS TO PED SIGNAL BUTTON  
 I.A.W. STANDARD DETAIL 30-12

**MINIMUM PEDESTRIAN ACCESS ROUTE  
 AROUND PERPENDICULAR CURB RAMPS**



SURFACE REQUIREMENTS WITHIN ACCESS ROUTE:  
 1. 2% CROSS SLOPE MAXIMUM IN ANY DIRECTION  
 2. NO LIDS OR OBSTRUCTIONS  
 3. CONNECTED ACCESS TO PED SIGNAL BUTTON  
 I.A.W. STANDARD DETAIL 30-12

**MINIMUM PEDESTRIAN ACCESS ROUTE  
 THROUGH PARALLEL RAMPS**

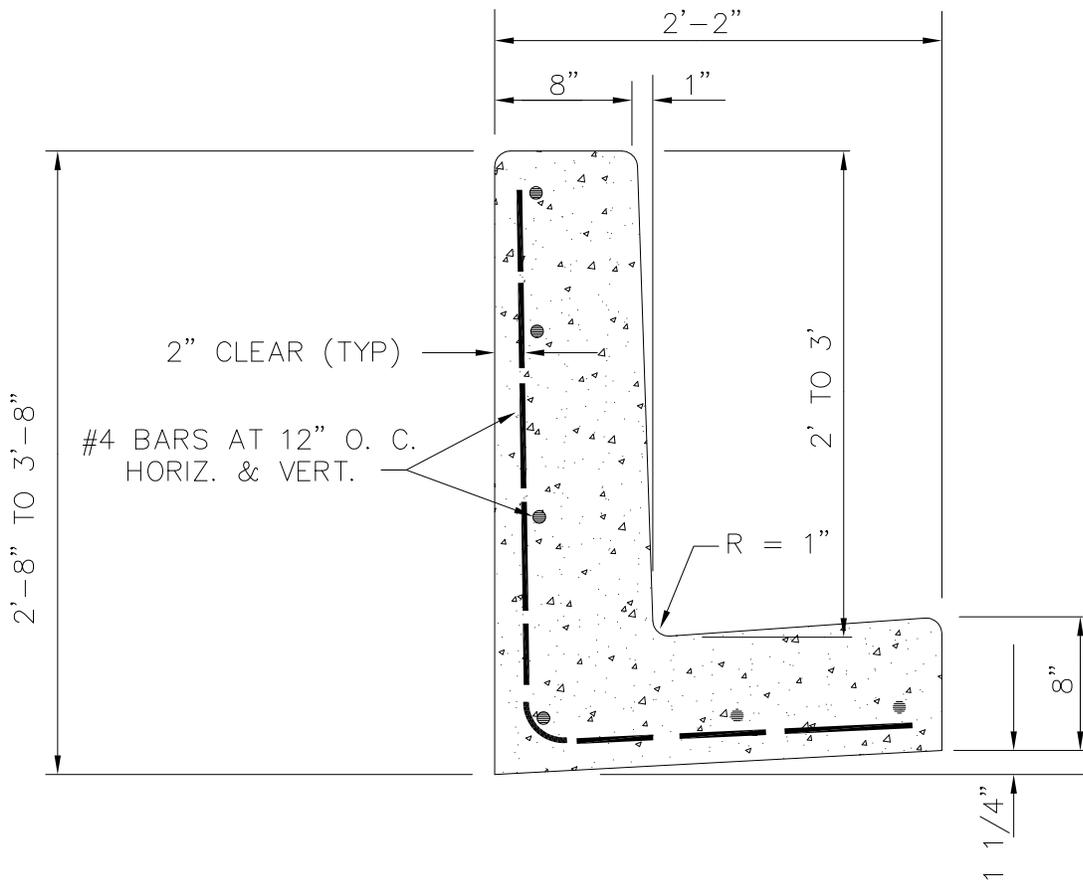


SCALE:  
 NTS  
 APPROVED:  
 REVISED:  
 4/12

**CURB RAMP  
 CLEARANCES**

SECTION #  
 30.04  
 DETAIL #  
 30-11

FILE.DWG



NOTE:  
PROVIDE 3/4" CHAMFER AT ALL OUTSIDE EDGES.

FILE.DWG

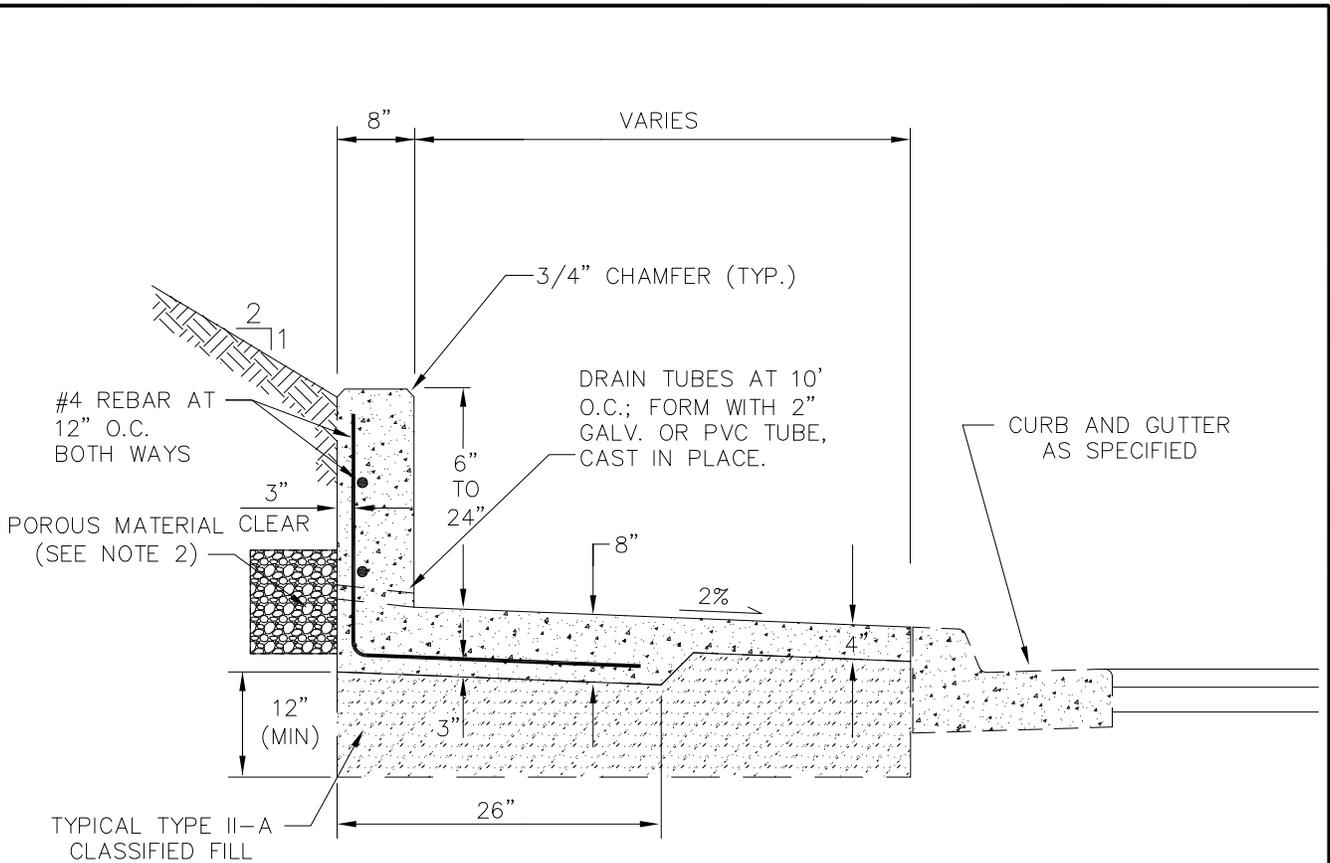


SCALE:  
NTS  
APPROVED:  
REVISED:  
4/12

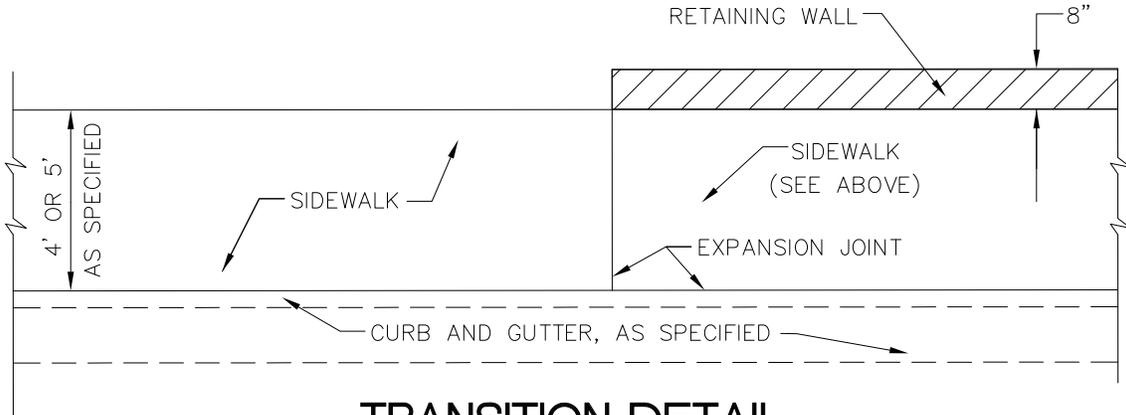
## CURB TYPE RETAINING WALL 2' TO 3'

SECTION #  
30.05

DETAIL #  
30-13



## SIDEWALK RETAINING WALL



## TRANSITION DETAIL (PLAN VIEW)

### NOTES:

1. STANDARD CURB AND GUTTER SECTION NOT INCLUDED IN UNIT BID PRICE FOR RETAINING WALL.
2. PLACE ONE CUBIC FOOT OF POROUS BACKFILL MATERIAL AROUND WEEP HOLE AS SHOWN.
3. PROVIDE 3/4" CHAMFER AT ALL OUTSIDE EDGES.



SCALE:  
NTS

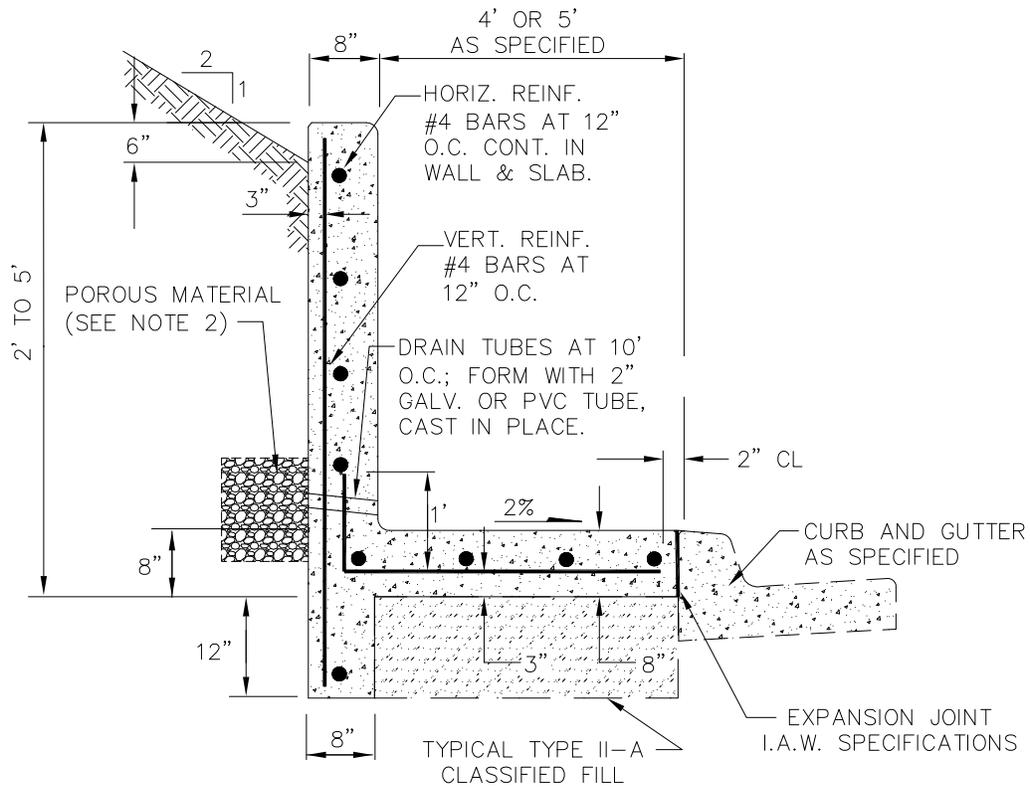
APPROVED:

REVISED:  
4/12

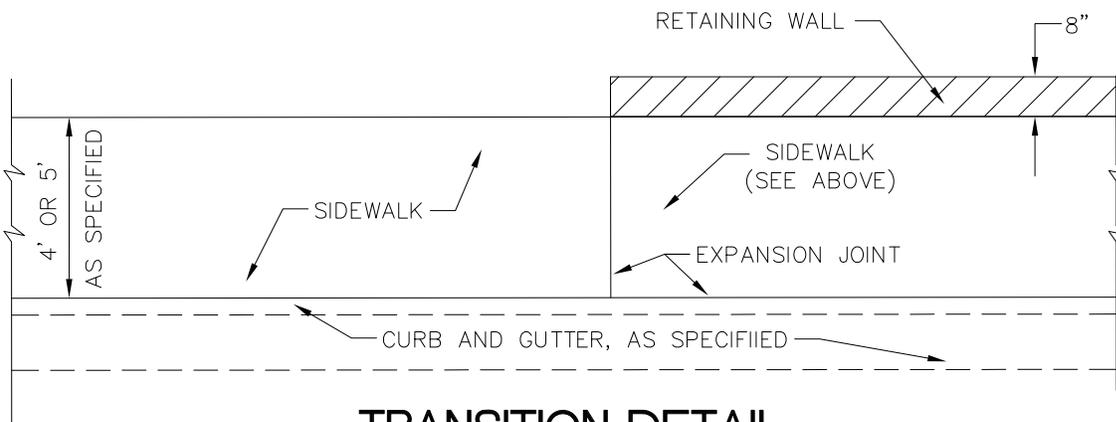
## SIDEWALK RETAINING WALL 6" TO 24"

SECTION #  
30.05

DETAIL #  
30-14



## SIDEWALK RETAINING WALL



## TRANSITION DETAIL (PLAN VIEW)

**NOTES:**

1. STANDARD CURB AND GUTTER SECTION NOT INCLUDED IN UNIT BID PRICE FOR RETAINING WALL.
2. PLACE ONE CUBIC FOOT OF POROUS BACKFILL MATERIAL AROUND WEEP HOLE AS SHOWN.
3. PROVIDE 3/4" CHAMFER AT ALL OUTSIDE EDGES.



SCALE:  
NTS  
APPROVED:  
REVISED:  
4/12

# SIDEWALK RETAINING WALL 2' TO 5'

SECTION #  
30.05

DETAIL #  
30-15