

APPENDIX A

STANDARD PLATES

507239 07/17/2000 02:35PM Page 212 of 277
Connie Joiner, Clerk & Recorder, Teller County, Colorado

APPENDIX A STANDARD PLATES

INDEX

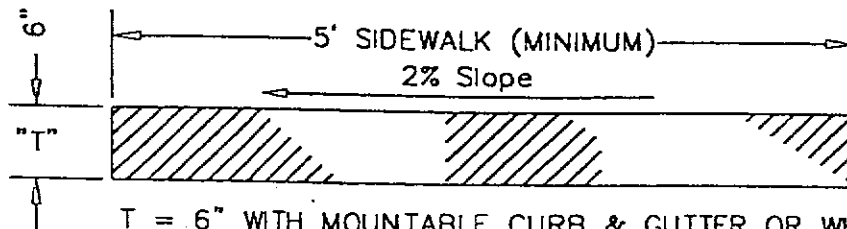
DRAWING	NO.
4" Mountable Curb, Gutter & Walk - Sidewalk & Construction Joints	SP.1
Curb, Gutter, Walk, Vertical Curb & Trench Drain	SP.2
Pedestrian Walkway Ramp & Step Details	SP.3
Curb, Gutter and Walk - Curb Cuts	SP.4
Driveway Returns Opposite Major Arterial Median Openings 5.0' Detached Walk	SP.5
Crosspans - Type 1	SP.6
Curb Ramps for Physically Handicapped	SP.7, SP.8, SP.9a, SP.9b
Curb Inlet - Type R	See CDOT "M" Standards
Inlet - Type C	See CDOT "M" Standards
Manhole Ring and Cover Adjustment	SP.12
Sidewalk Curb Chase	SP.13a, SP.13b
Range Box	SP.14a
Street Cross Sections	
-Notes	SP.15
-Urban Local	SP.16a
-Rural Local	SP.16b
-Urban Collector	SP.17a
-Rural Collector	SP.17b
-Minor Arterial (2 Lane - Urban Area)	SP.18a
-Minor Arterial (2 Lane - Rural Area)	SP.18b
-Minor Arterial (4 Lane - Urban Area)	SP.19a
-Minor Arterial (4 Lane - Rural Area)	SP.19b
Median Planter	SP.24, SP.25

**APPENDIX A
STANDARD PLATES (Contd.)**

INDEX

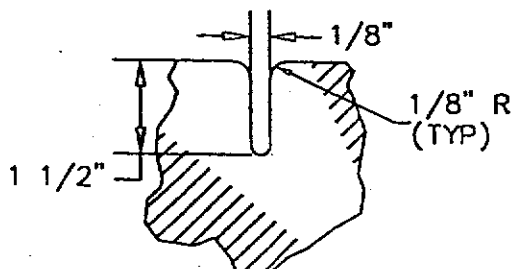
DRAWING	NO.
Warning Sign Placement	SP.26
Regulatory Sign Placement	SP.27
Street Sign Assembly	SP.28
Street Name Assembly Locations	SP.29
Typical Locations - Stop Signs and Yield Signs	SP.30
Sawed Joint and Expansion Joint	SP.31
Roadside Ditch Sections	SP.32a

STANDARD ATTACHED OR DETACHED WALK

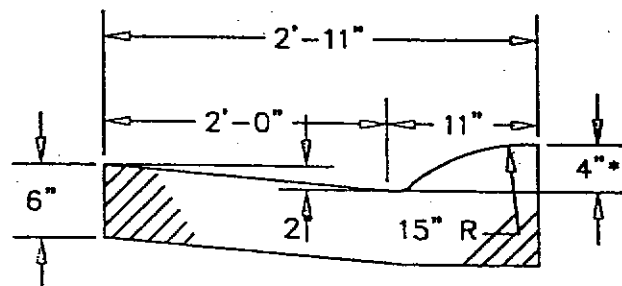


IF USED FOR PEDESTRIAN/BICYCLE COMBINED SIDEWALK WIDTH SHALL BE 8'.

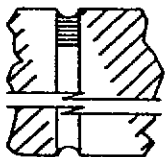
T = 6" WITH MOUNTABLE CURB & GUTTER OR WHERE VEHICLE TRAFFIC WILL CROSS THE SIDEWALK. IN AREAS WHERE VEHICLE TRAFFIC WILL NOT CROSS THE SIDEWALK "T" MAY BE 4".



CONTRACTION OR WEAKEN PLANE JOINT

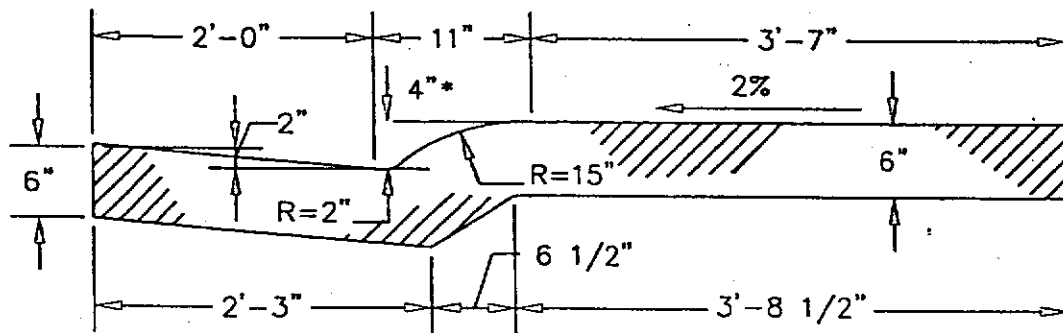


MOUNTABLE CURB AND GUTTER



EXPANSION JOINT (SEE SP31)

* FOR RURAL STREETS, THIS DIMENSION SHALL BE 5".



COMBINATION CURB, GUTTER AND SIDEWALK

ADOPTED
7/8/99

4" MOUNTABLE CURB, GUTTER & WALK
SIDEWALK & CONSTRUCTION JOINTS

Issued: _____

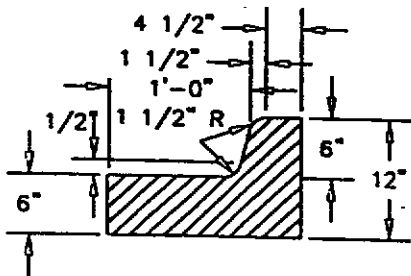
Revised: _____

Teller County

Drawing No.

SP1

MEDIAN CURB & GUTTER (SPILL)



PLEASE SEE SP. 37
TRENCH DRAIN DETAIL

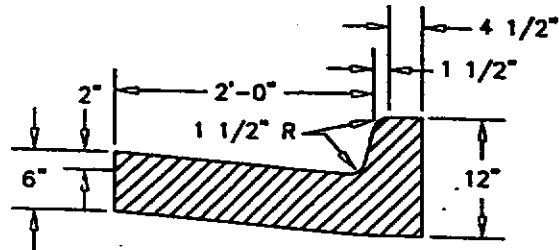
CLASS C FILTER MATERIAL
(NO CONCRETE SAND)

4" PERFORATED PVC DRAIN PIPE
(SEE NOTE 1)

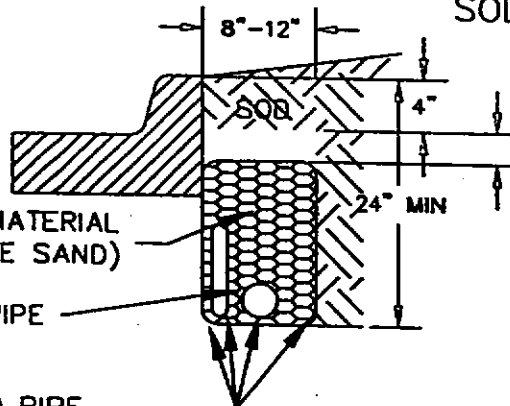
OR

EQUIVALENT OVAL PERFORATED PIPE
(EQUIV. OVAL PERF. PIPE MUST BE
ACCEPTED BY THE COUNTY ENGINEER
IN WRITING) (SEE NOTE 1)

VERTICAL CURB AND GUTTER



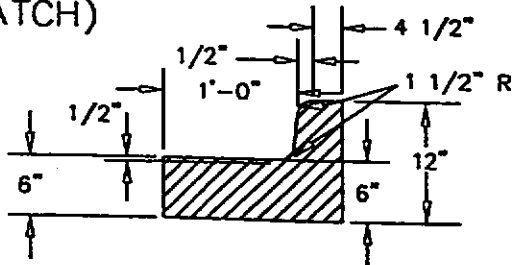
SOD



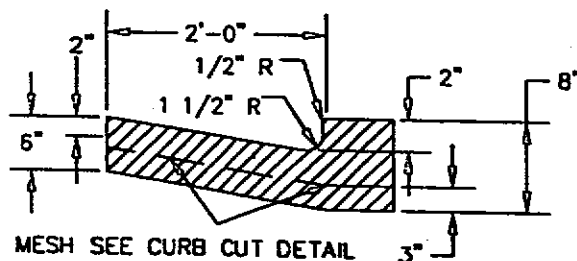
TO MAINTAIN THE
INTEGRITY OF THE
FILTER CLOTH, UP
TO 6" (MAX) OF
"SQUEEGEE" MAY BE
USED TO PREVENT
POP-UP SPRINKLER
HEADS FROM
PENETRATING THE
FILTER CLOTH.

MIRAFI 140N FILTER CLOTH OR EQUIVALENT.
FILTER CLOTH MUST WRAP BOTH THE PIPE
AND THE ENTIRE TRENCH.

MEDIAN CURB & GUTTER (CATCH)



TYPICAL CURB & GUTTER AT DRIVEWAY



MESH SEE CURB CUT DETAIL

NOTES:

1. The 4" (or equivalent oval) drain pipe will be connected to a store drainage system to create positive drainage runoff.
2. If a sidewalk is placed behind the curb but is not placed monolithically, a silicone base sealer must be applied between the sidewalk and the curb.

ADOPTED
7/8/99

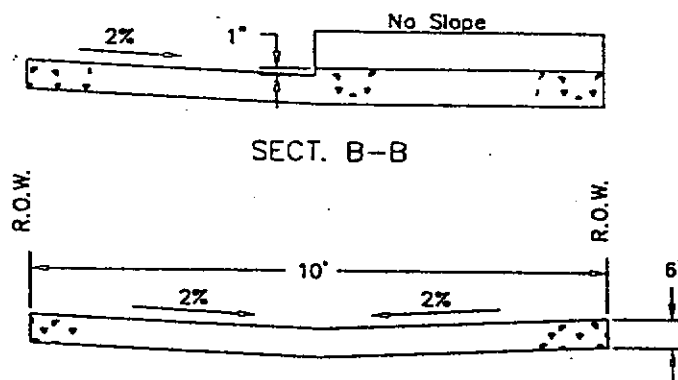
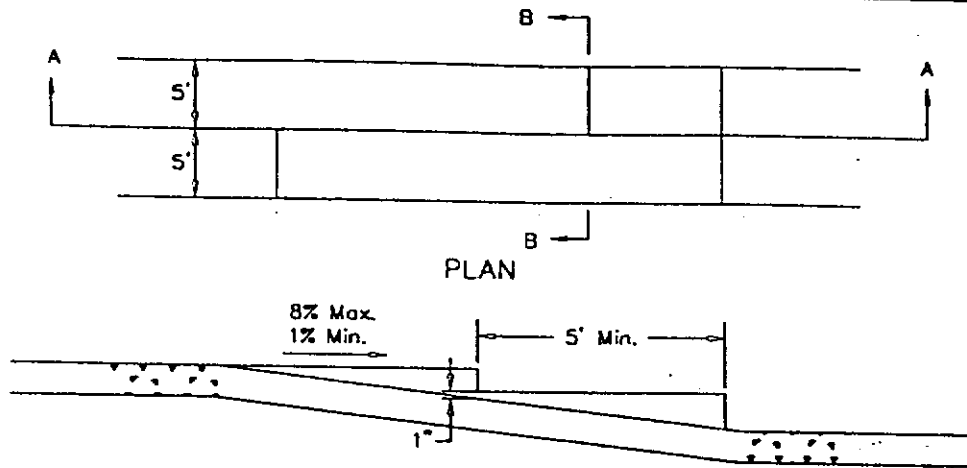
CURB, GUTTER, WALK, VERTICAL CURB,
& TRENCH DRAIN

Teller County

Issued: _____

Revised: _____

Drawing No.
SP2



NOTES:

1. The use of this pedestrian walkway will normally not be allowed on public walkways. It is intended to show how steps and handicap ramps will be used in conjunction with each other.
2. The concrete walkway shall be the full width of the tract.
3. The longitudinal slope shall not be less than 1% for terrain exceeding 6% but less than 18%. A combination of step and landing can be incorporated into the left side of the walkway (facing downhill) in such a manner as to match grade with existing terrain as closely as is possible. Grades in excess of 18% shall require a special design to be approved by the Douglas County Engineer.
4. The construction plans for the development shall include complete details for the walkway.
5. The walkway shall not be used for drainage overflow.
6. Contraction or weakened plain joint at 10' intervals and expansion joint per sidewalk construction.

ADOPTED
7/8/99

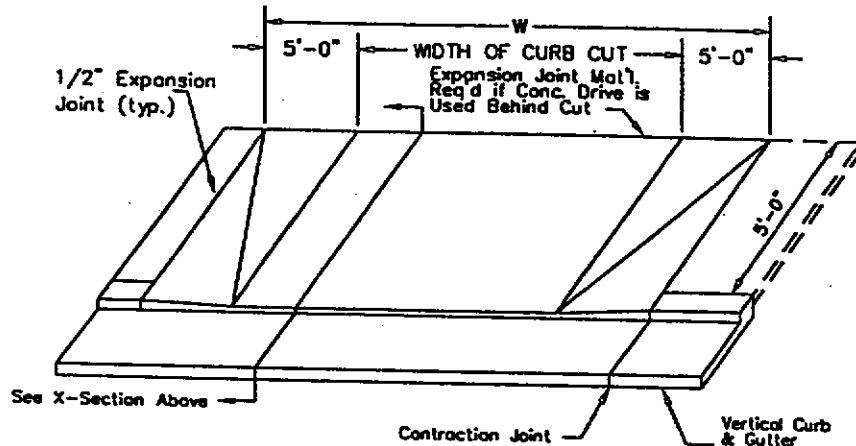
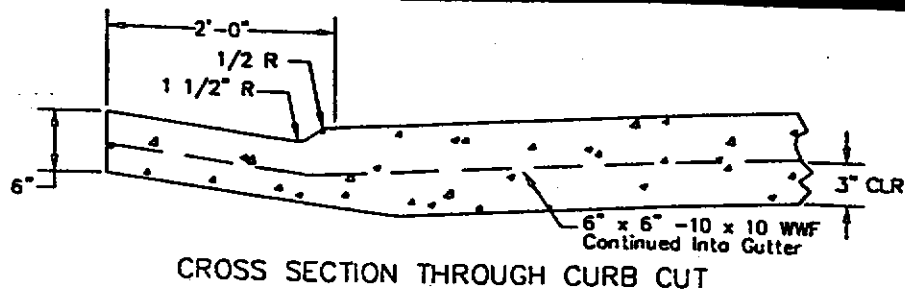
PEDESTRIAN WALKWAY
RAMP & STEP DETAILS

Teller County

Issued: _____

Revised: _____

Drawing No.
SP3



NOTES:

1. Back of curb cut extends to back of walk or back of bicycle path. If no walk is present extend back of curb cut to 5'0" behind flowline.
2. County shall approve location of curb cut before construction.

Width of Curb Opening (W).

Note: Curb openings of 30' or more must be constructed at radius curb return.

WIDTH OF CURB OPENING (From Table 13.1)

	RESIDENTIAL SF MF	SERVICE COMMERCIAL STATION	INDUSTRIAL
MAJOR ARTERIAL	IF ALLOWED UNDER 13.2.3.2.c. DESIGN AS COLLECTOR		
MINOR ARTERIAL	IF ALLOWED UNDER 13.2.3.2.c. DESIGN AS COLLECTOR		
MAJOR COLLECTOR	N/A 30-35	30-40	30-40
MINOR COLLECTOR	N/A 30-35	30-40	30-40
LOCAL	(**) 30-35	30-40	30-40

- NOTE: (1) Curb openings of 30' or more must be constructed as a radius curb return.
 (2) If a radius curb return is used, the width of the allowed driveway is measured by NOT counting the two (2) 20' radii, or in other words, it is measured at the throat extended to flowline.

** FOR SINGLE FAMILY RESIDENTIAL ACCESS TO LOCAL STREETS:
 LOCAL (URBAN - with curb-gutter-sidewalk) = 16' to 30'
 LOCAL (URBAN - without curb-gutter-sidewalk) = 20' to 30'
 LOCAL (RURAL) = 20' to 30'

ADOPTED
 7/8/99

CURB, GUTTER & WALK
 CURB CUTS

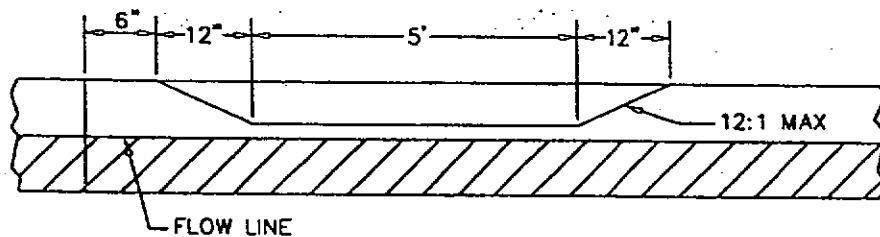
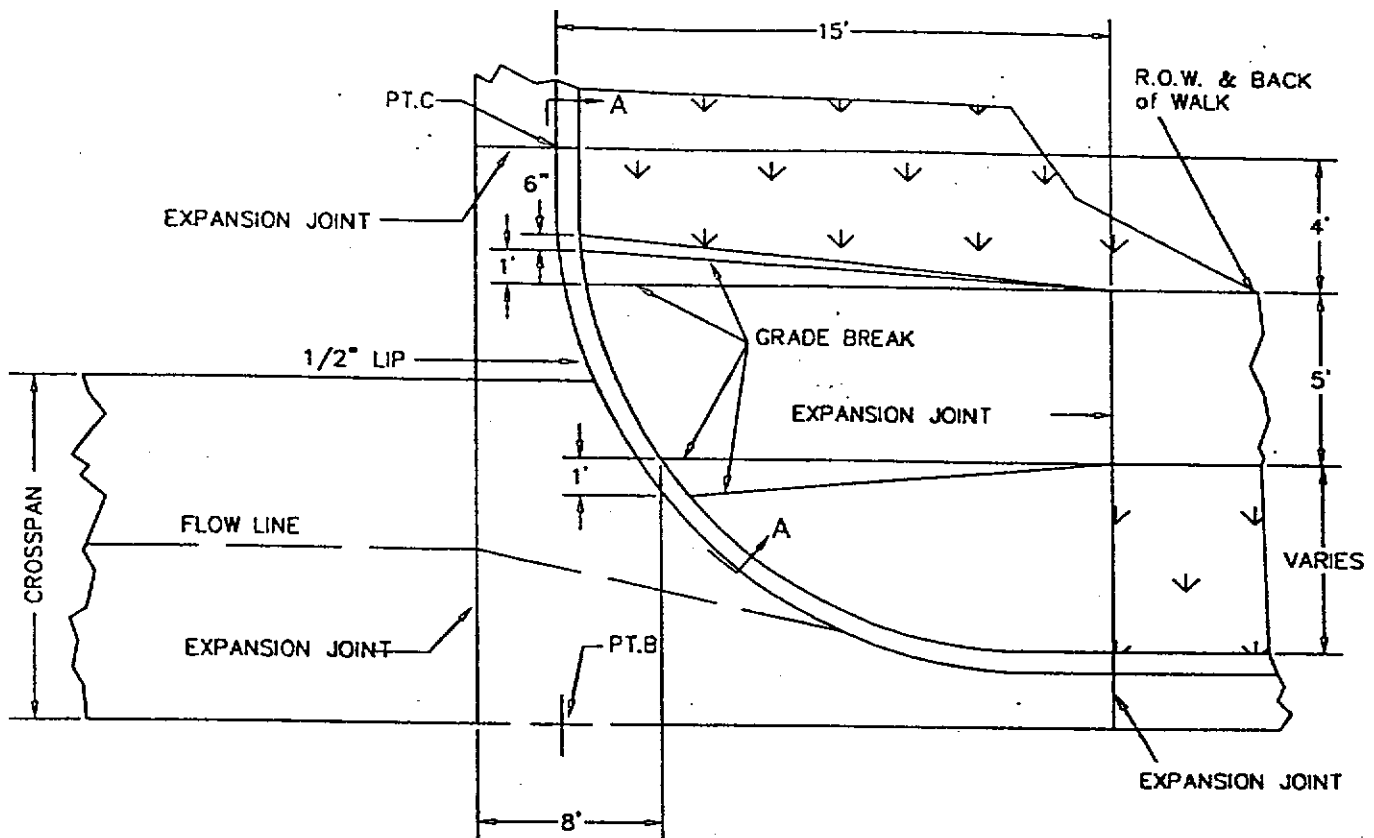
Teller County

Issued: _____

Revised: _____

Drawing No.

SP4



SECTION A-A

ADOPTED
7/8/99

DRIVEWAY RETURNS OPPOSITE MAJ. ART.
 MEDIAN OPENINGS 5.0' DETACHED WALK

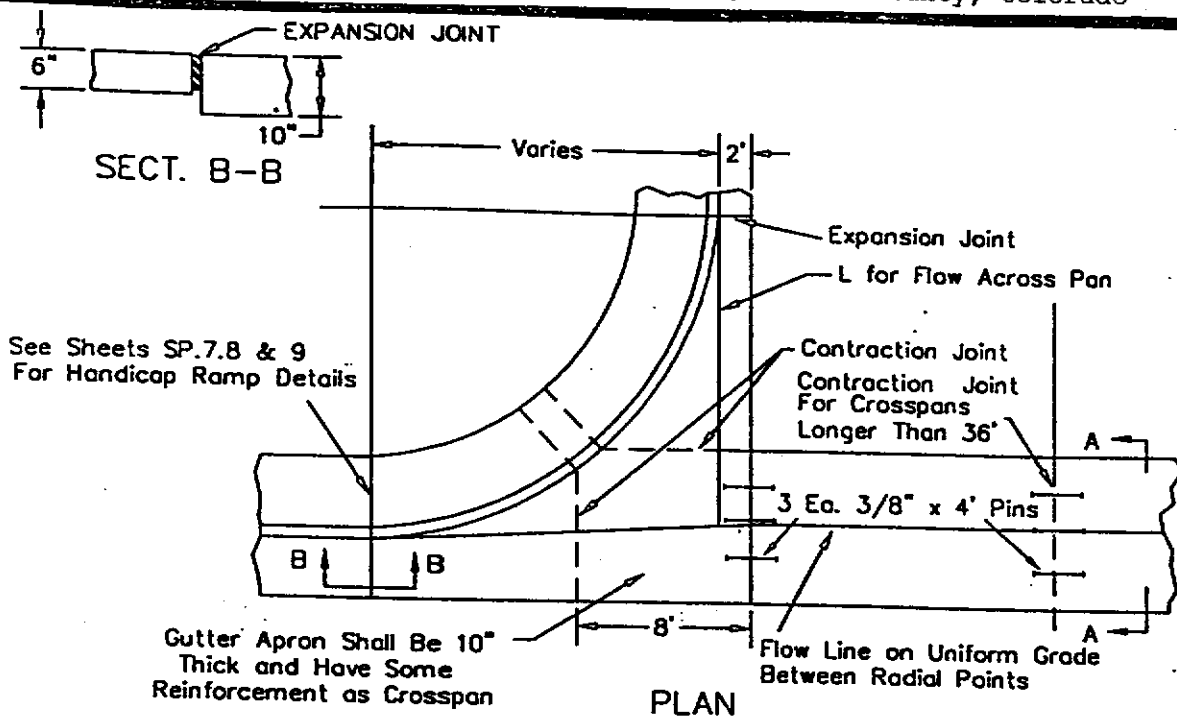
Teller County

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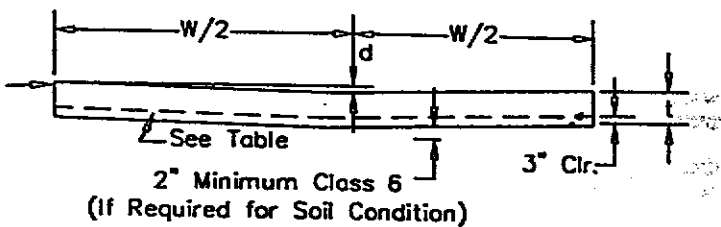
Revised: _____

Drawing No.

SP5



Crown Shall Be Transitioned Out Of the Street. See Section 4.3 of These Specifications. No Crown Exists at The Crosspan



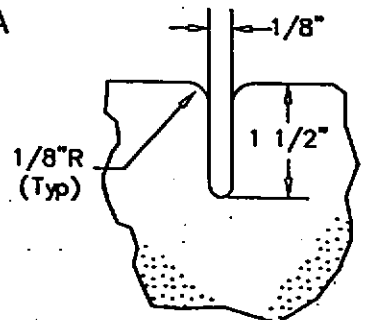
SECTION A-A

Width (W)	Depth (D)	Thickness (T)
6'	1-1/2"	8"
8'	2"	10"
10'	2-1/2"	10"

PAN LENGTH	WIRE MESH CALLED FOR	REPLACE WITH REBAR HAVING END AREA OF
36'	6x6 - 4.4	.10 Sq. In. Per Ft. (#4 @ 18" E.W.)
46'	6x6 - 2.2	.13 Sq. In. Per Ft. (#4 @ 18" E.W.)
64'	6x6 - 0.0	.20 Sq. In. Per Ft. (#4 @ 18" E.W.)
84'	6x6 - 2.2	.26 Sq. In. Per Ft. (#4 @ 18" E.W.)

NOTE:

Square returns and pans shall use wire mesh as shown in the table above. When wire mesh is not available, steel reinforcing bar may be substituted.



CONTRACTION OR WEAKENED PLANE JOINT

* 1/4 D if Templates Are Not Used

ADOPTED
7/8/99

CROSSPANS
TYPE 1

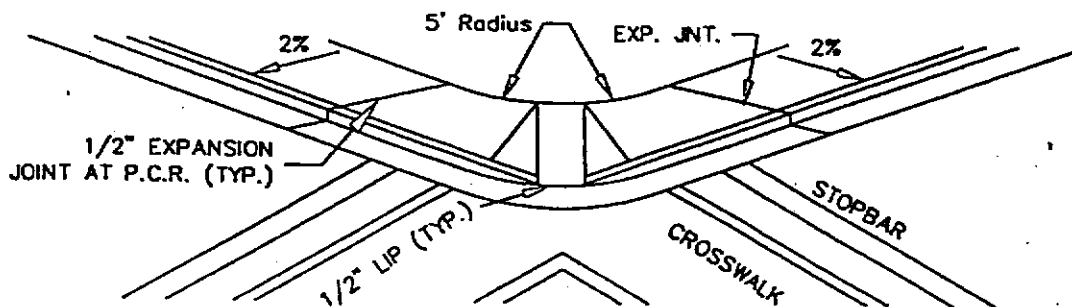
Teller County

Issued: _____

Revised: _____

Drawing No.
SP6

1. In accordance with CRS43-2-107(2), ramps shall be provided at all corners of street intersections where there is existing or proposed sidewalk and curb. Ramps shall also be provided at walk locations in mid-block in the vicinities of hospitals, medical centers, athletic stadiums, and at "T" intersections directly opposite either curb return.
2. All work shall be done in accordance with the standard specifications of Douglas County.
3. Sidewalks shall be ramped where a driveway curb is extended across the walk.
4. Details shown in this plan shall apply to all construction or reconstruction of streets, curbs or sidewalks.
5. Special designs are required when grades are over 4% or where the angle of the intersection is less than 75° or more than 105°.
6. In new construction, ramp and curb may be poured monolithically.
7. Ramp and wings shall be poured monolithically.
8. Minimum width of ramps shall be 4 feet and ramp slopes shall not be steeper than 12:1.
9. Maintain back of walk elevation at 2.0% above top of curve.
10. concrete for sidewalk ramps shall be Class "A".
11. Normal gutter flow line and profile shall be maintained through the ramp area.
12. Ramp surface shall have a coarse broom finish with striations perpendicular to the direction of ramp slope.
13. A 1/2" expansion joint shall be required where the concrete ramp joins any rigid pavement or structure.
14. Drainage structures shall not be placed in line with ramps, location of the ramp shall take precedence over location of the drainage structure, except where existing drainage structures are being utilized in the new construction.
15. All pavement marking shall be in accordance with the latest edition of the MUTCD for streets and highways.



ISOMETRIC VIEW

ADOPTED
7/8/99

CURB RAMPS FOR
PHYSICALLY HANDICAPPED

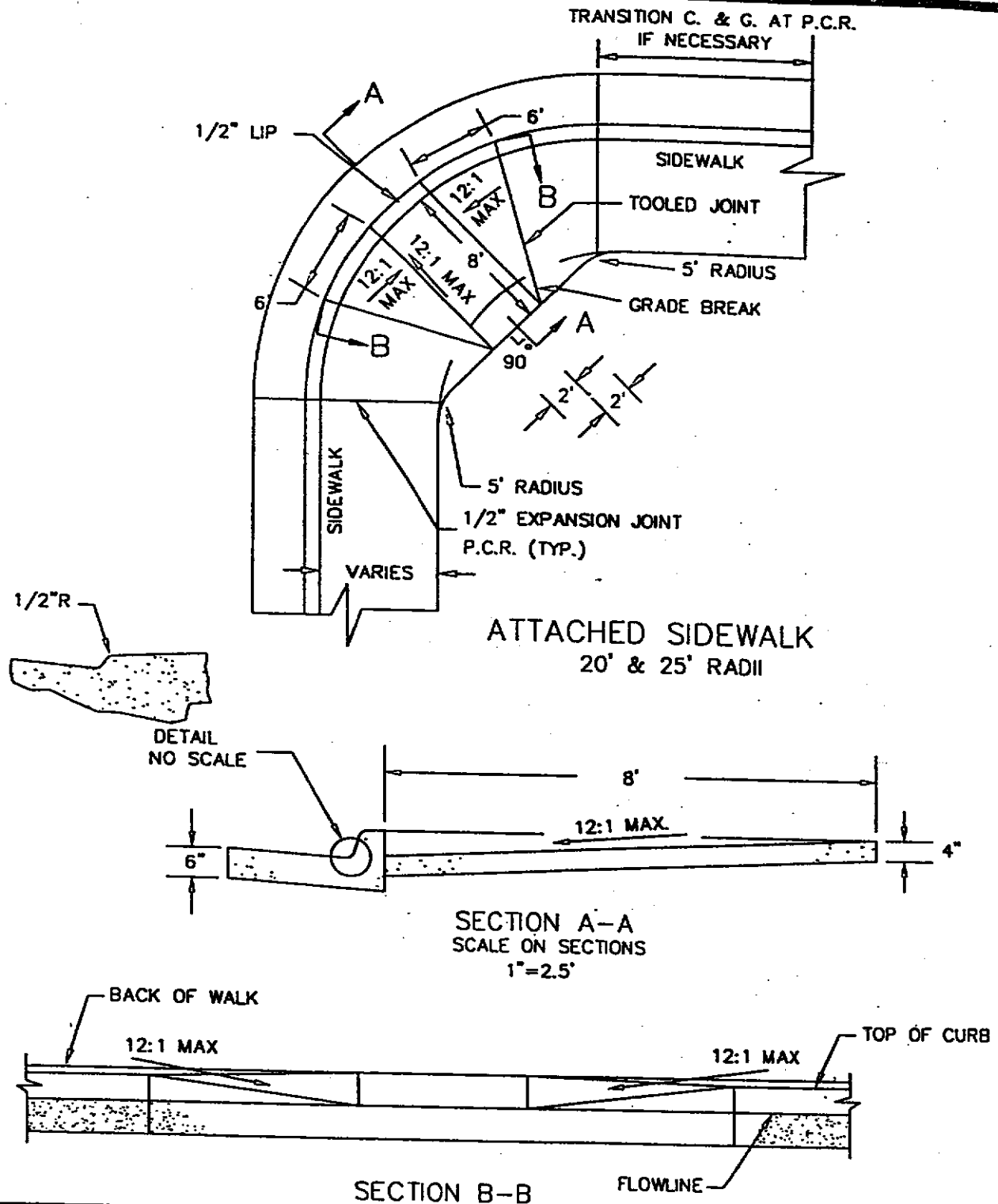
Teller County

Issued: _____

Revised: _____

Drawing No.

SP7



ADOPTED
7/8/99

CURB RAMPS FOR
PHYSICALLY HANDICAPPED

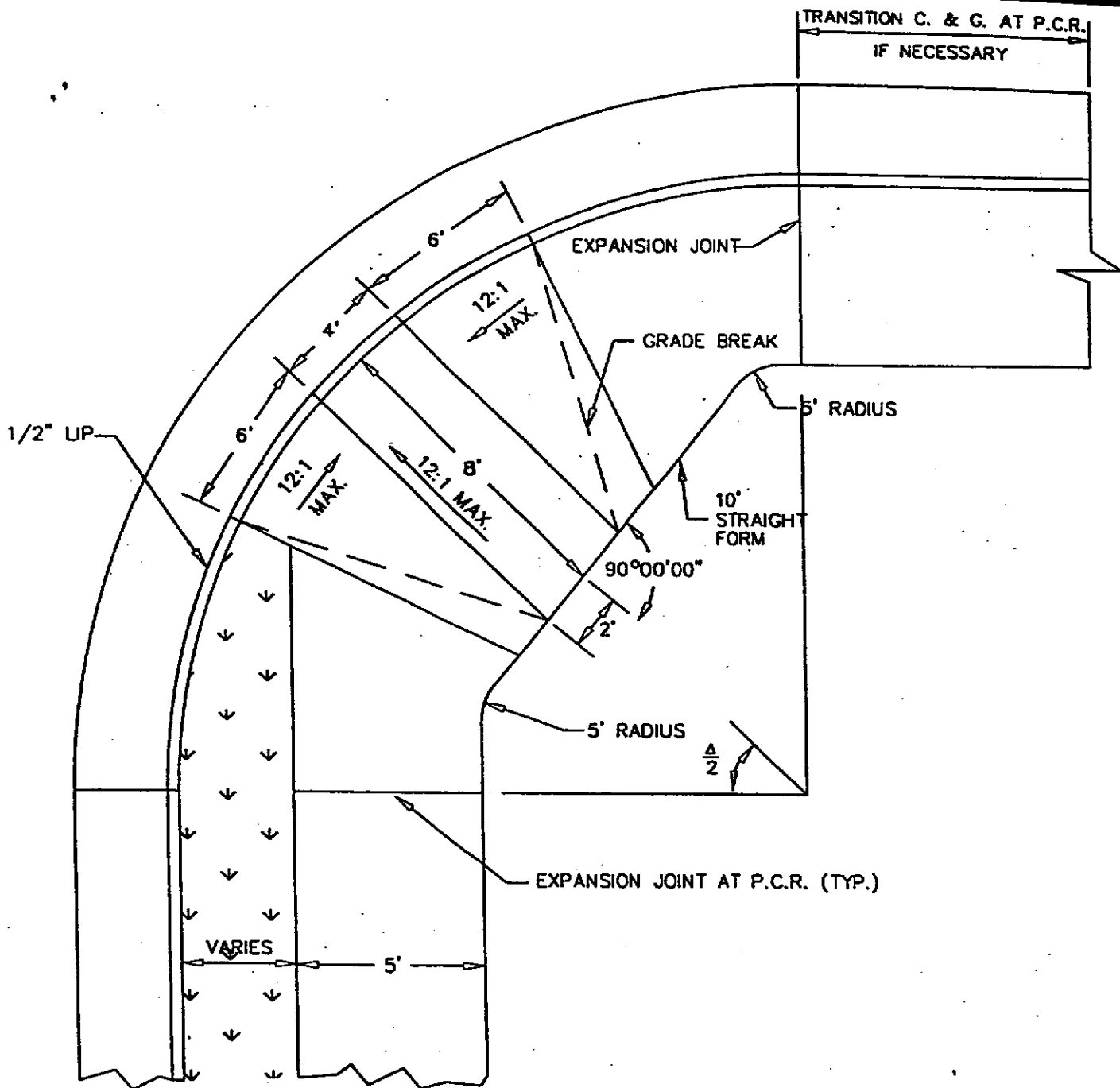
Teller County

Issued: _____

Revised: _____

Drawing No.

SP8



DETACHED WALK TO ATTACHED WALK
25' RADIUS OR GREATER

ADOPTED
7/8/99

CURB RAMPS FOR
PHYSICALLY HANDICAPPED

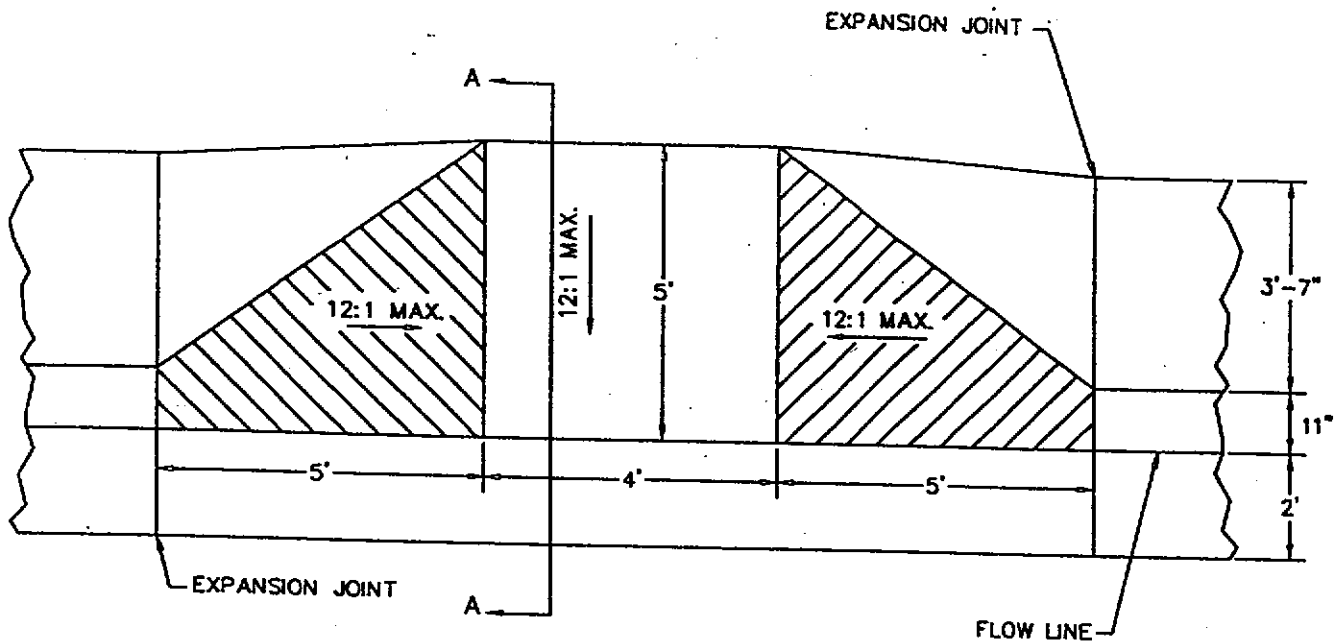
Teller County

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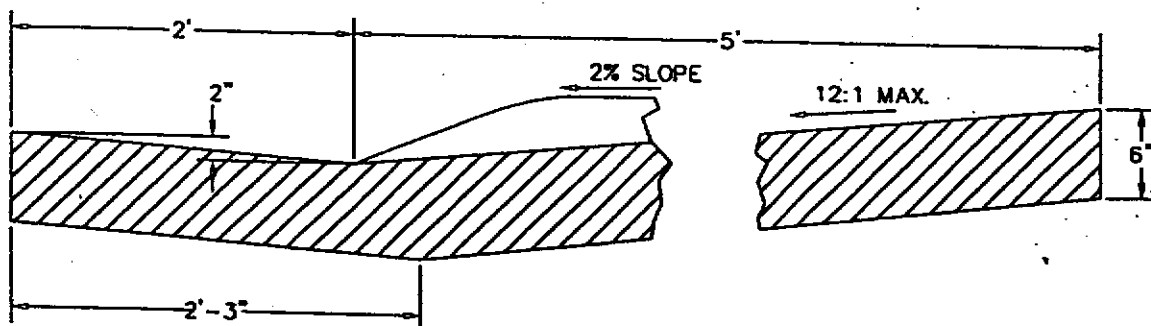
Revised: _____

Drawing No.

SP9a



NOTE:
FOR LOCAL (36' FL/FL) STREETS ONLY.



SECTION A-A

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7/8/99

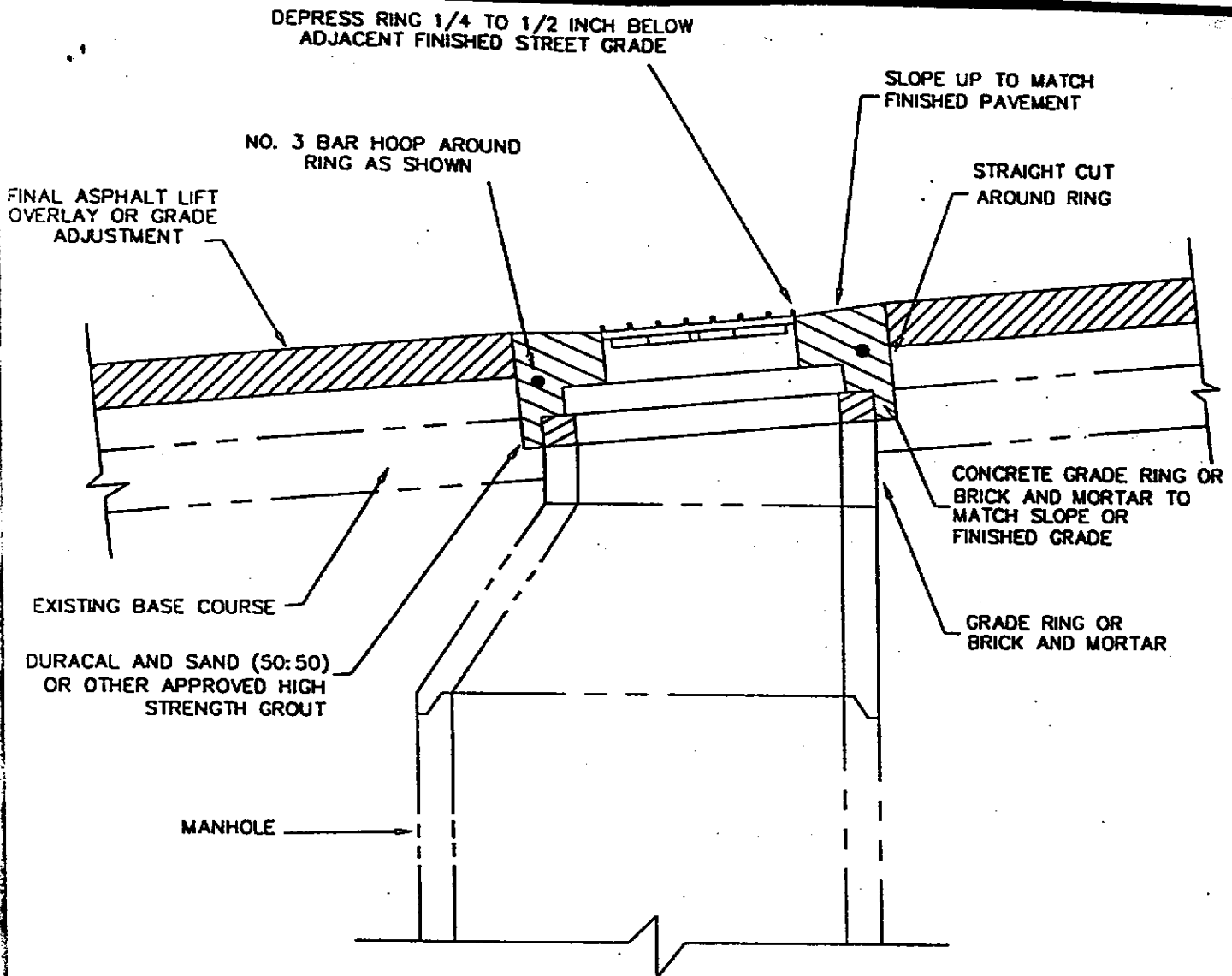
MID-BLOCK RAMP FOR PHYSICALLY HANDICAPPED ON LOCAL STREETS

Issued: _____

Revised: _____

Teller County

Drawing No.
SP9b



NOTES:

ADEQUATE BARRICADES SHALL BE PLACED AND MAINTAINED UNTIL THE COLLAR ATTAINS A COMPRESSIVE STRENGTH OF 3000PSI.

DURACAL GROUT SHALL BE A MIXTURE OF 100 LBS. DURACAL, 26 LBS. WATER (3.12 GAL.), AND 100 LBS. OF SAND CONFORMING TO ASTM C-35.

MANHOLES SHALL NOT BE LOCATED IN CROSSPANS OR GUTTERS.

ADOPTED
7/8/99

MANHOLE RING AND COVER
ADJUSTMENT

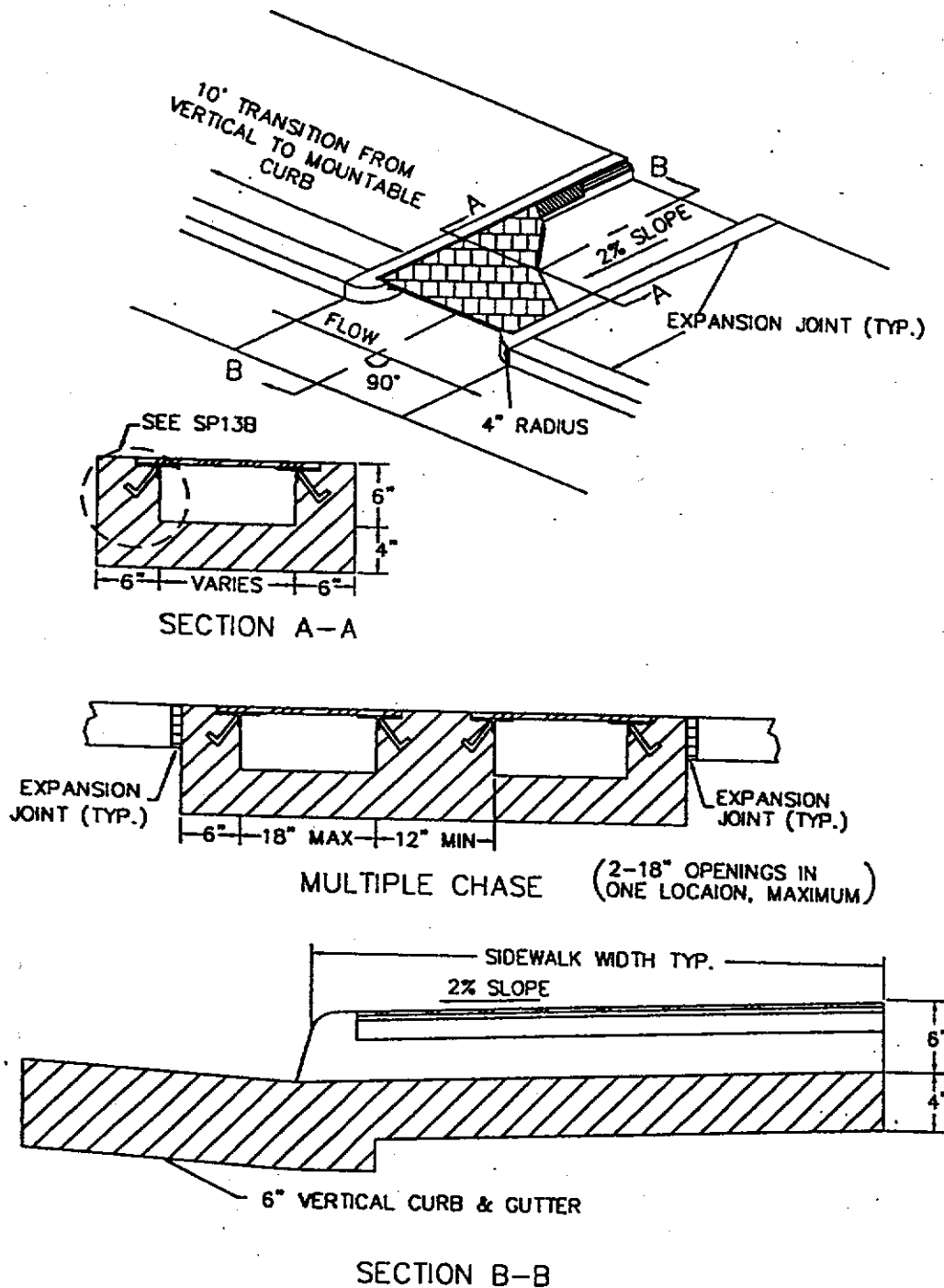
Teller County

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Revised: _____

Drawing No.

SP12



ADOPTED
7/8/99

SIDEWALK CURB CHASE

Teller County

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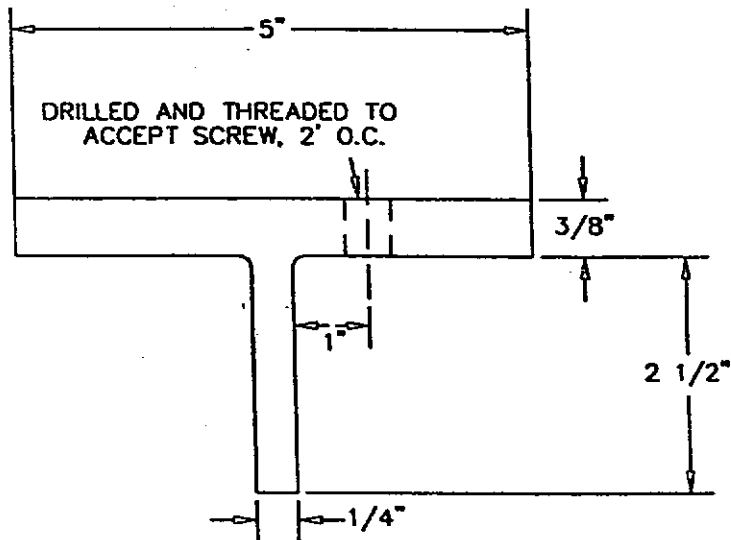
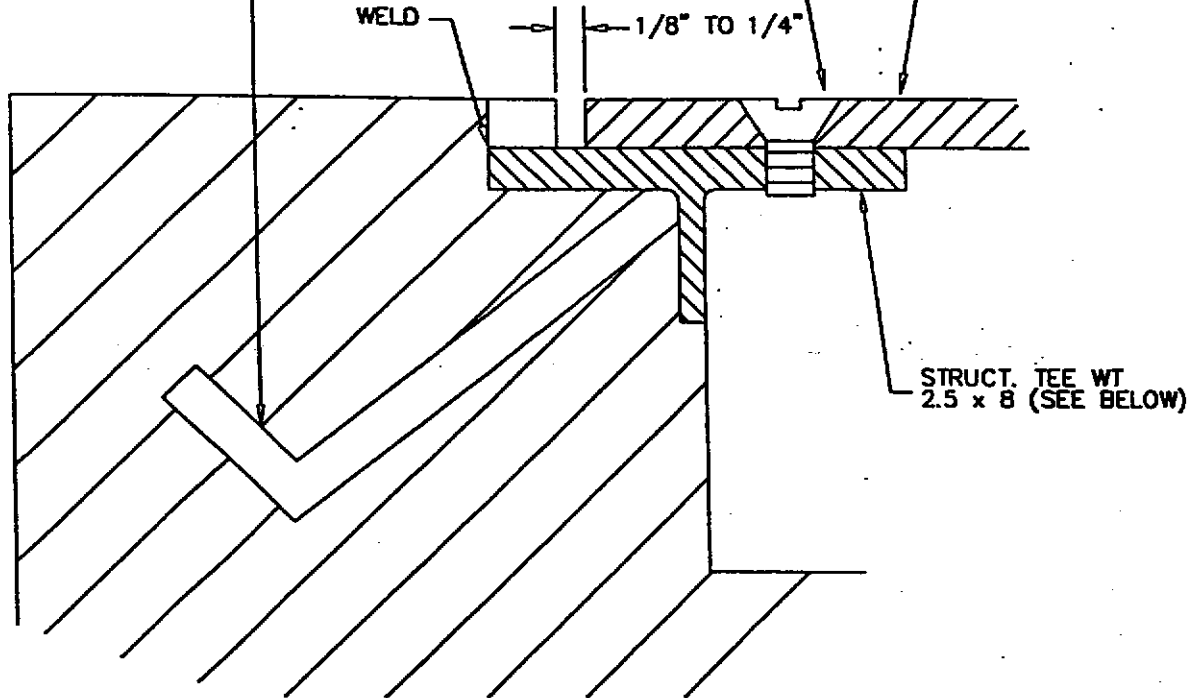
Revised: _____

Drawing No.
SP13a

#3 BAR 6" LONG WELDED
 TO STRUCT. TEE AT 18"
 O.C. EACH SIDE (1/2"
 ANCHOR BOLT MAY BE USED)

1/2" x 1" SCREW
 (SEE NOTE 1)

ELECTRO-GALVANIZED
 NON-SLIP RAISED PATTERN
 STEEL TREAD PLATE. (FOR
 THICKNESS SEE CHART BELOW)



WIDTH OF OPENING	THREAD PLATE THICKNESS
6"	3/8"
6"-12"	1/2"
12"-18"	5/8"

NOTES:

1. STARHEAD SCREW BRASS OR
 ELECTRO-GALVANIZED FINISH
 (RECESS HEAD)

ADOPTED
 7/8/99

SIDEWALK CURB CHASE

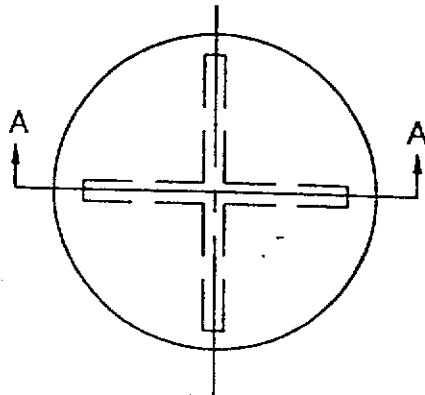
Teller County

Issued: _____

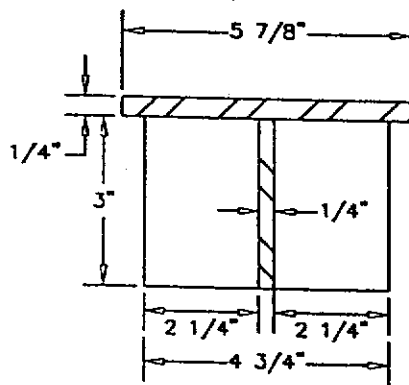
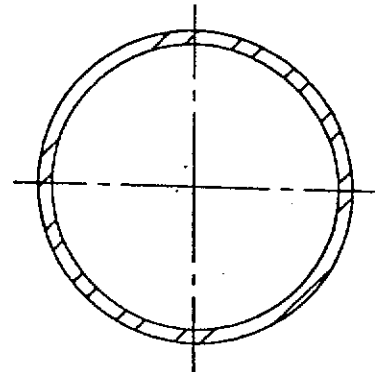
Revised: _____

Drawing No.

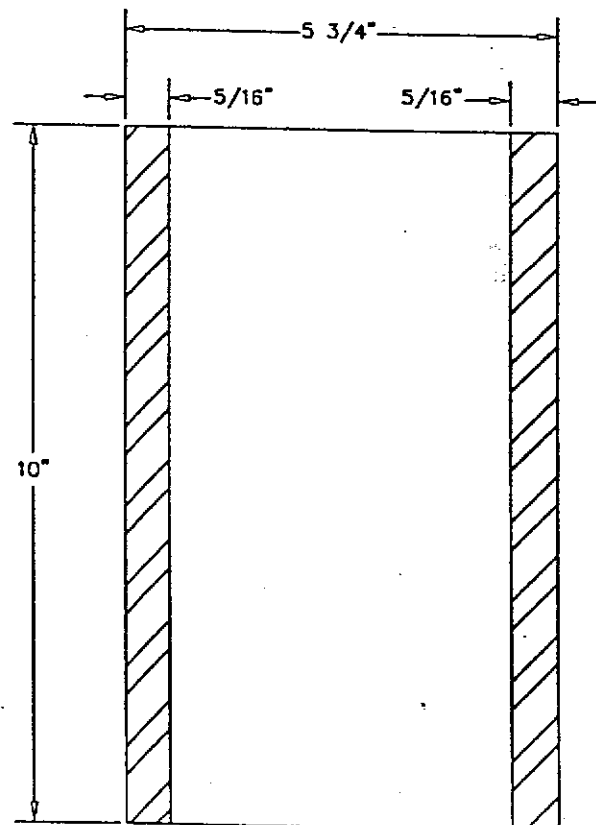
SP13b



TOP



SECTION A-A



NOTE:

TOP OF BOX SHALL BE DEPRESSED
1/4" TO 1/2" BELOW ADJACENT FINISHED
STREET GRADE.

LETTERS SHALL BE NOT LESS THAN
5/8" HIGH & RAISED 1/8" ABOVE SURFACE.

ALL FILLETS & ROUNDS RADII = 1/8".

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7/8/99

RANGE BOX

Teller County

Issued: _____

Revised: _____

Drawing No.

SP14a

The following notes are applicable to all roadway sections identified on the following pages (local, minor collector, major collector, minor arterial and major arterial), unless modifications are approved in writing by the Road and Bridge Director.

NOTES:

1. Gutters shall be at lease 6" thick.
2. All combination curb, gutter and sidewalks to be 6" thick (min.). Sidewalks with vertical curb and gutter may be 4" thick.
3. Total pavement thickness to be determined by pavement design procedures in Section 5.4.
4. Placement, moisture and density control for subgrade, subbase and surfacing materials shall be in conformance with the requirements of Chapter 8 of the Roadway Design and Construction Standards.
5. Non-landscaped median islands shall be covered with an acceptable impermeable surface.
6. Arterial right turn accel/decel lanes can be eliminated, with inclusion of appropriate tapers, if the distance between intersecting streets and/or curb cuts is 1/2 mile or greater.
7. Legend
 - P = Parking Allowed
 - NP = No Parking Allowed
 - ↑ = Laneage

ADOPTED
7/8/99

NOTES

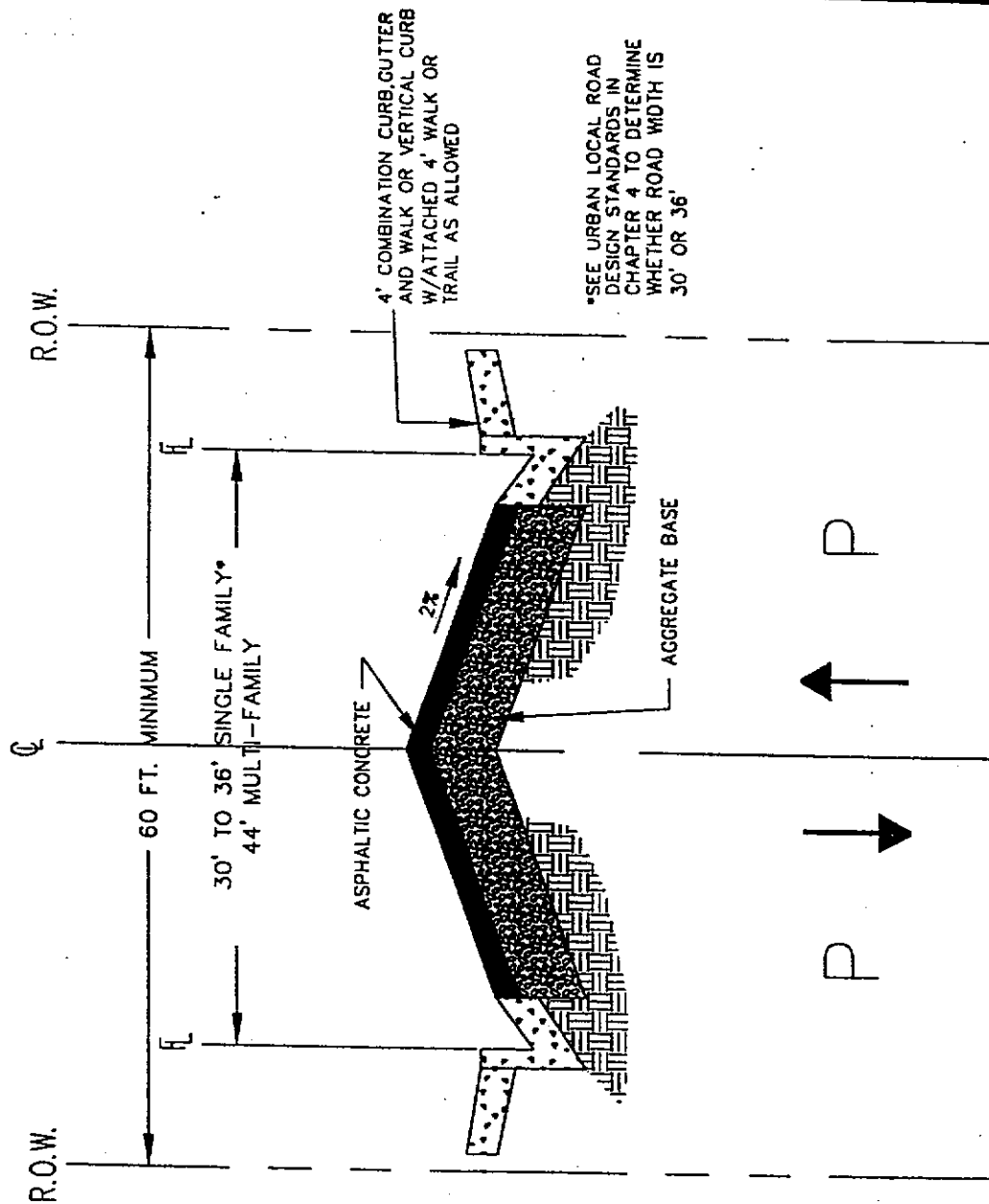
Teller County

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Revised: _____

Drawing No.

SP 15



ADOPTED
7/8/99

URBAN LOCAL
ROAD SECTION

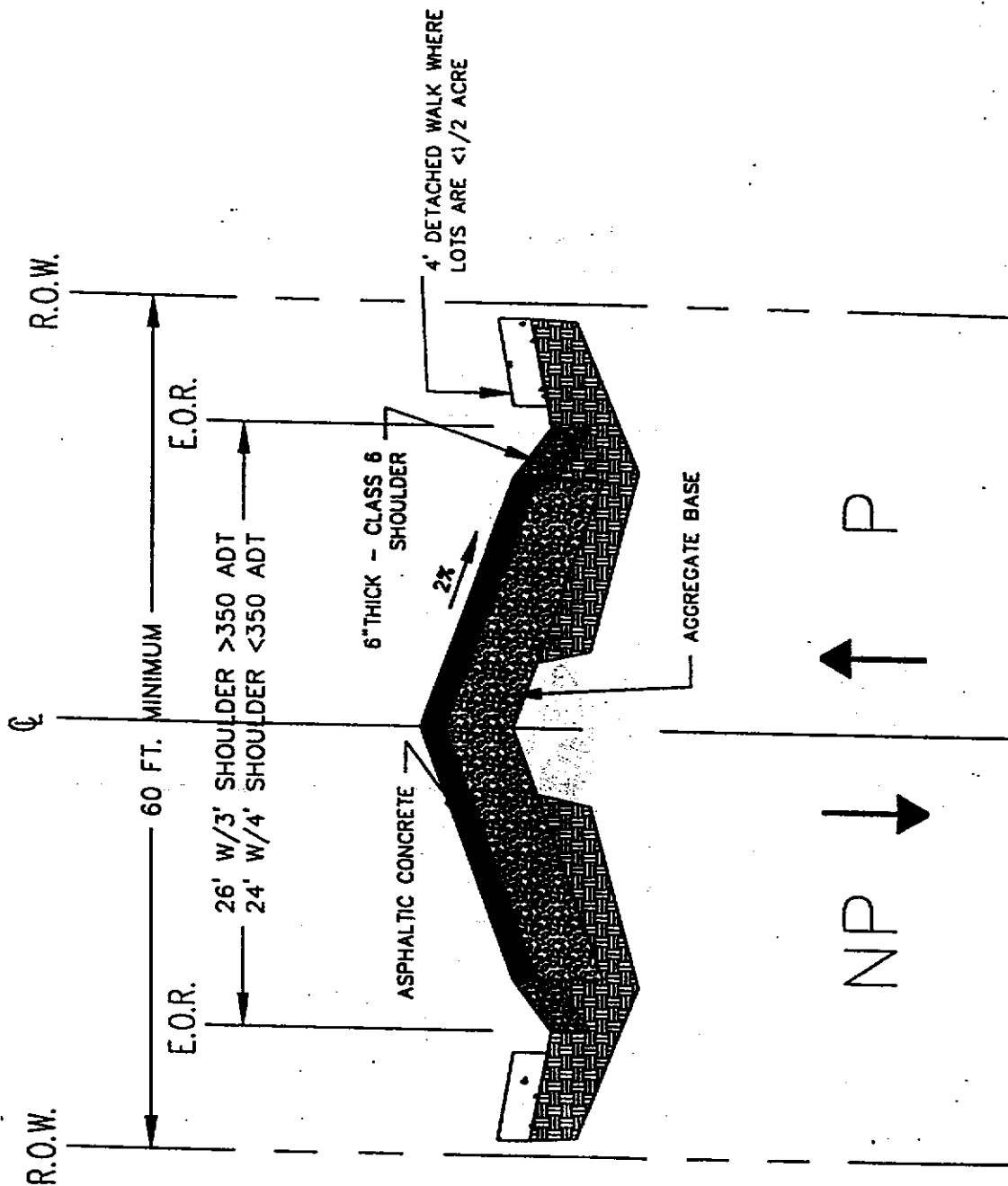
Teller County

Issued: _____

Revised: _____

Drawing No.

SP 16a



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7/8/99

RURAL LOCAL
ROAD SECTION

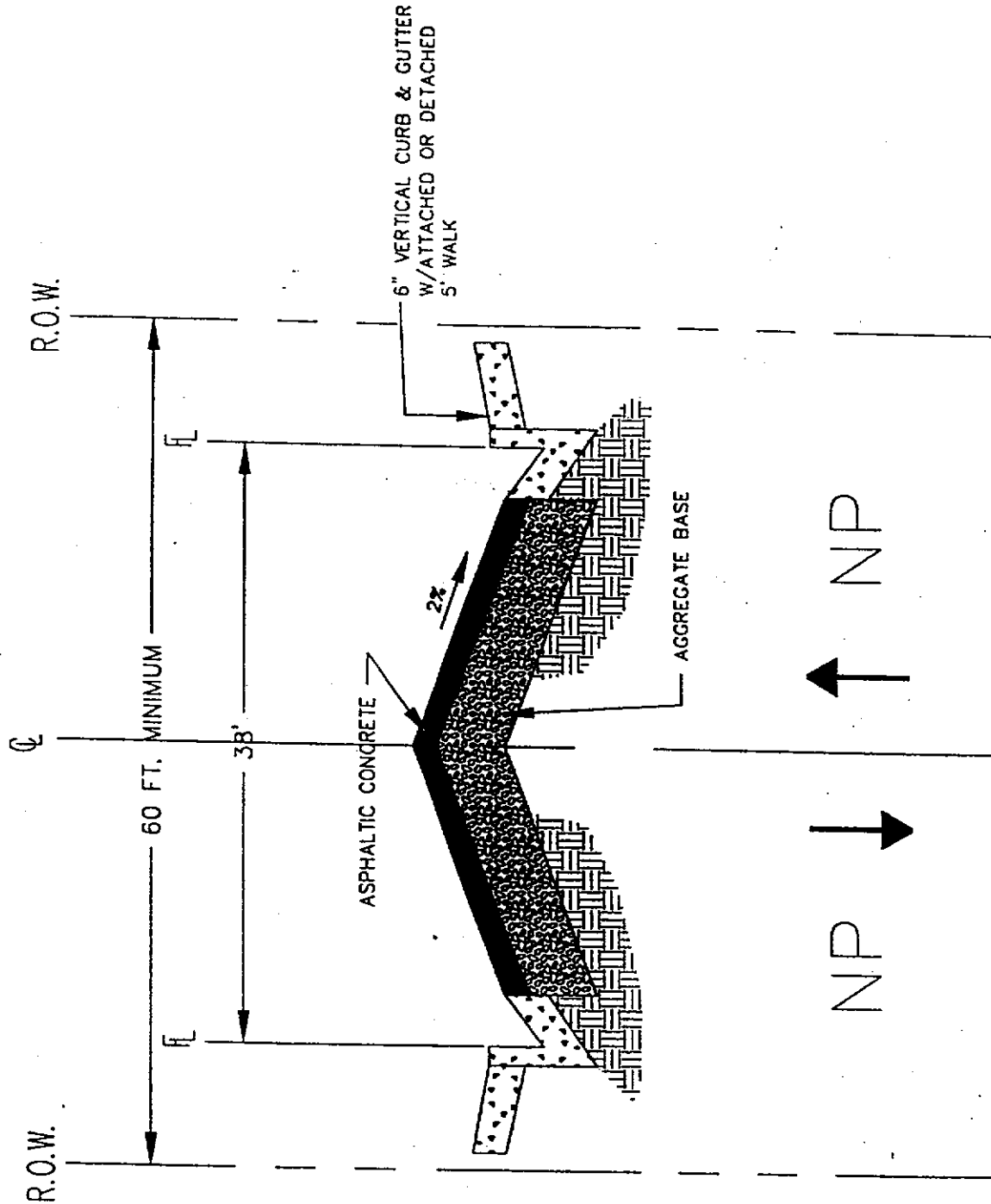
Teller County

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Revised: _____

Drawing No.

SP 16b



ADOPTED
7/8/99

URBAN COLECTOR
ROAD SECTION

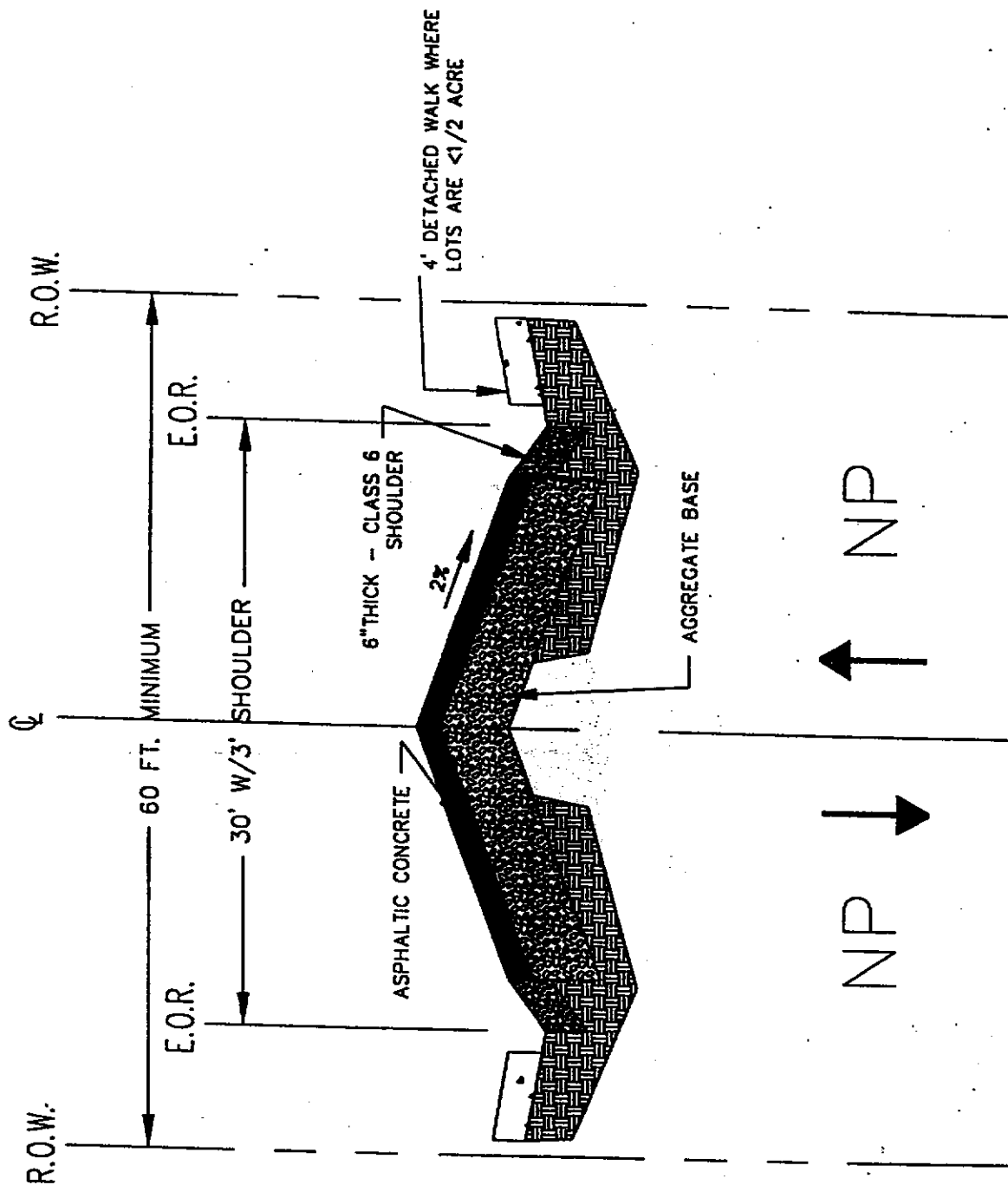
Teller County

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Revised: _____

Drawing No.

SP 17a



ADOPTED
7/8/99

RURAL COLLECTOR
ROAD SECTION

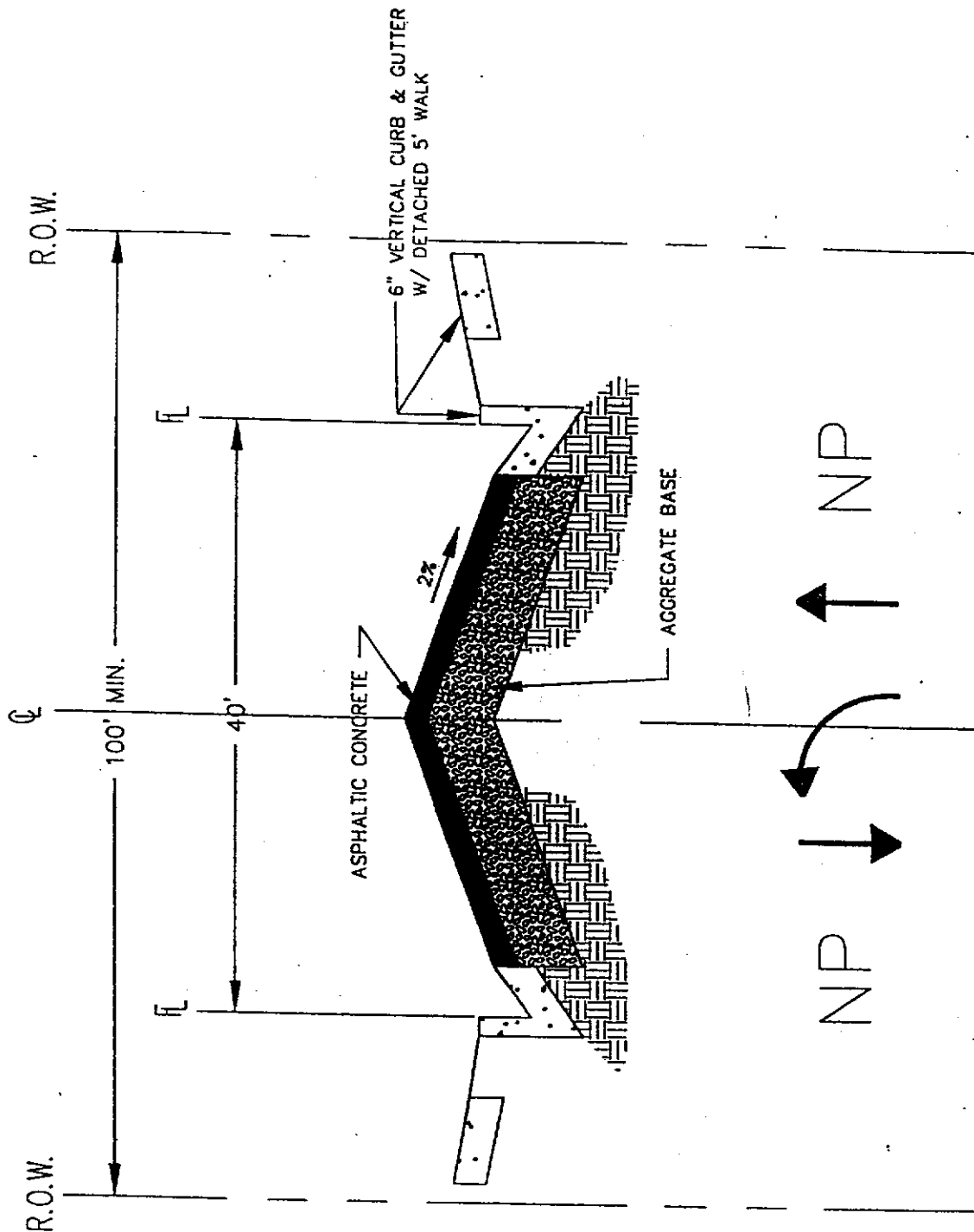
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Drawing No.

SP 17b



ADOPTED
7/8/99

MINOR ARTERIAL
(2 LANE - URBAN AREA)

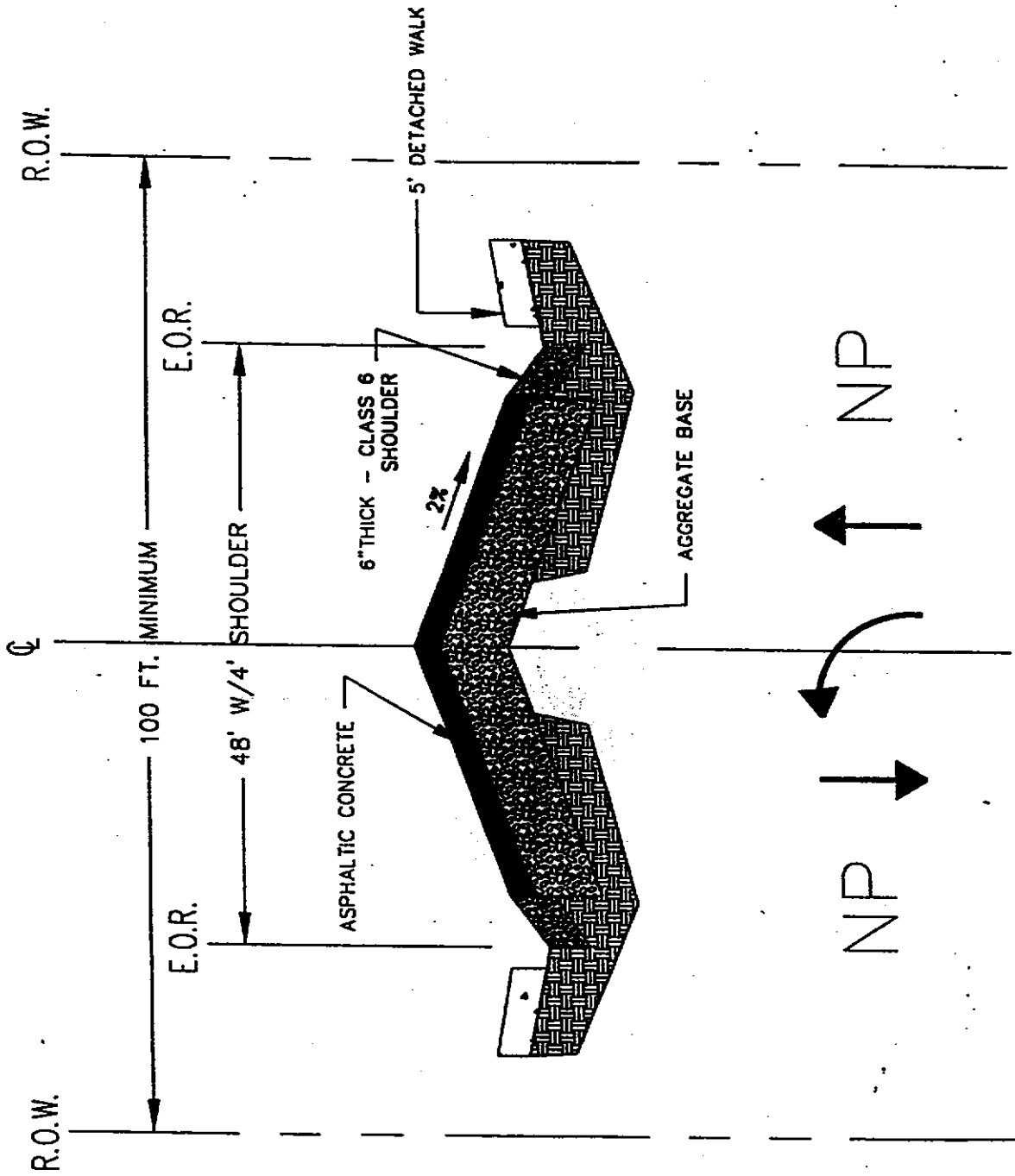
Teller County

Issued: _____

Revised: _____

Drawing No.

SP 18a



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7/8/99

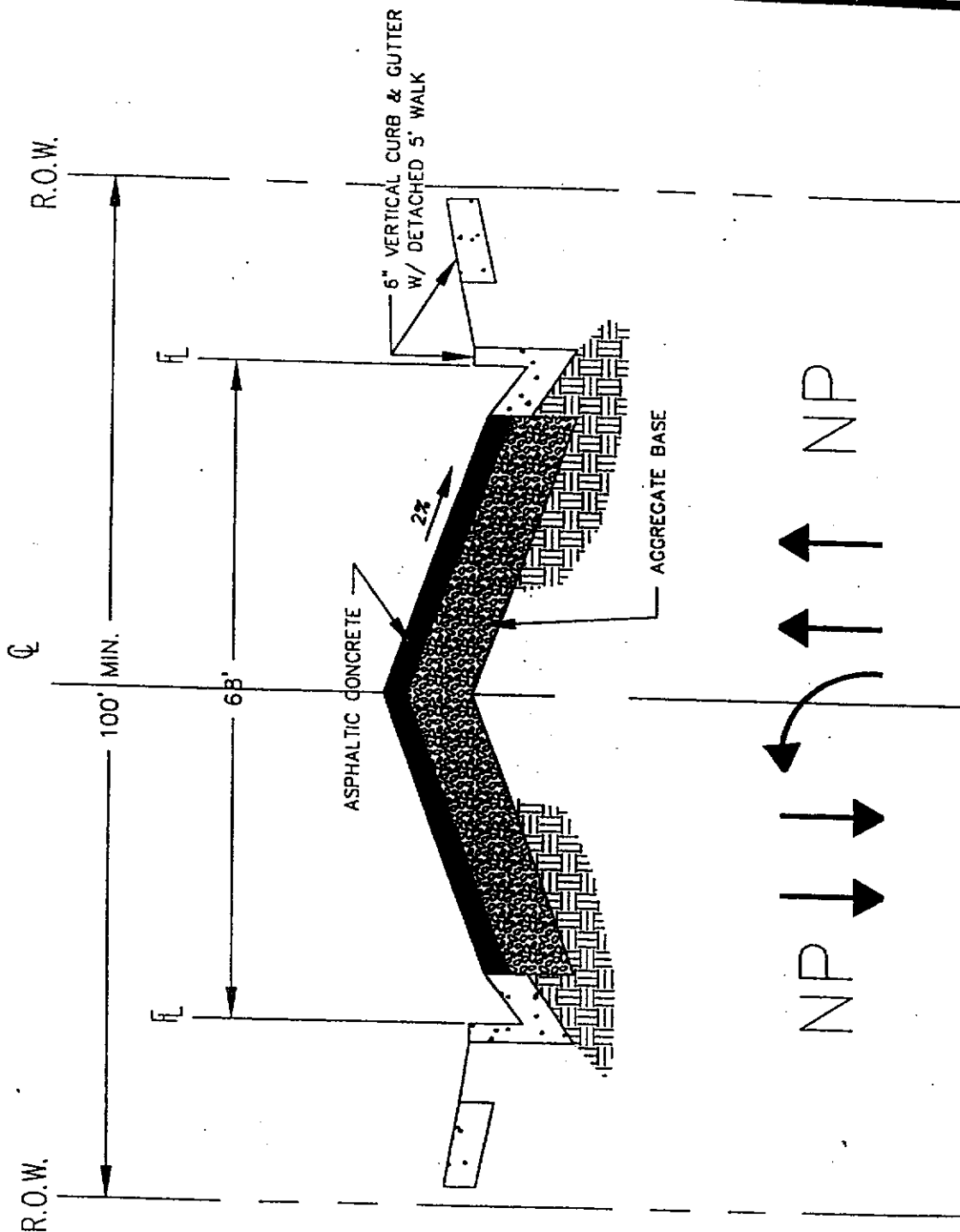
MINOR ARTERIAL
(2 LANE - RURAL AREA)

Teller County

Issued: _____

Revised: _____

Drawing No.
SP 18b



NP ↑ ↑ NP
 ↓ ↓

ADOPTED
 7/8/99

MINOR ARTERIAL
 (4 LANE - URBAN AREA)

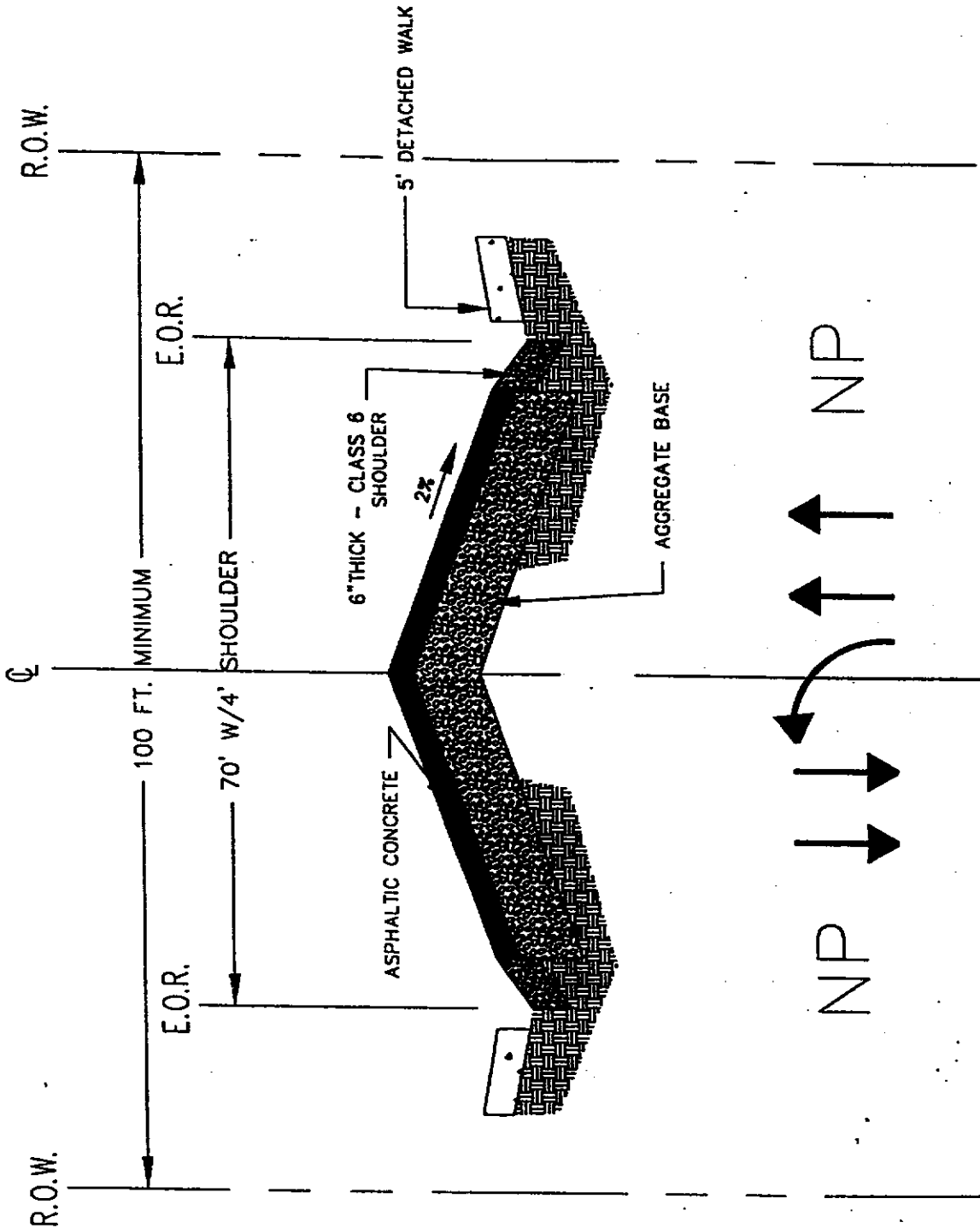
Teller County

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Revised: _____

Drawing No.

SP 19a



ADOPTED
7/8/99

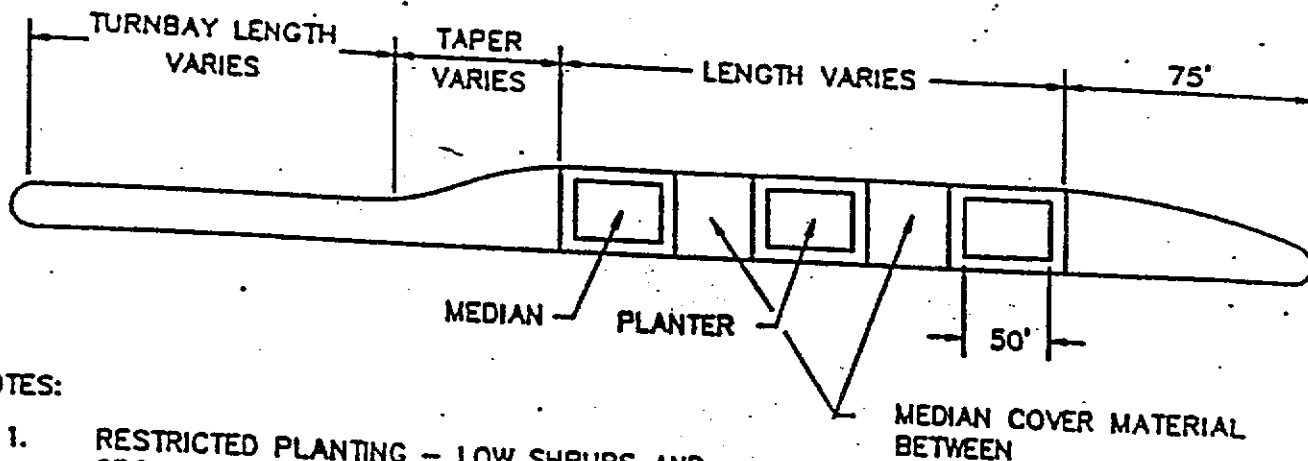
MINOR ARTERIAL
(4 LANE - RURAL AREA)

Teller County

Issued: _____

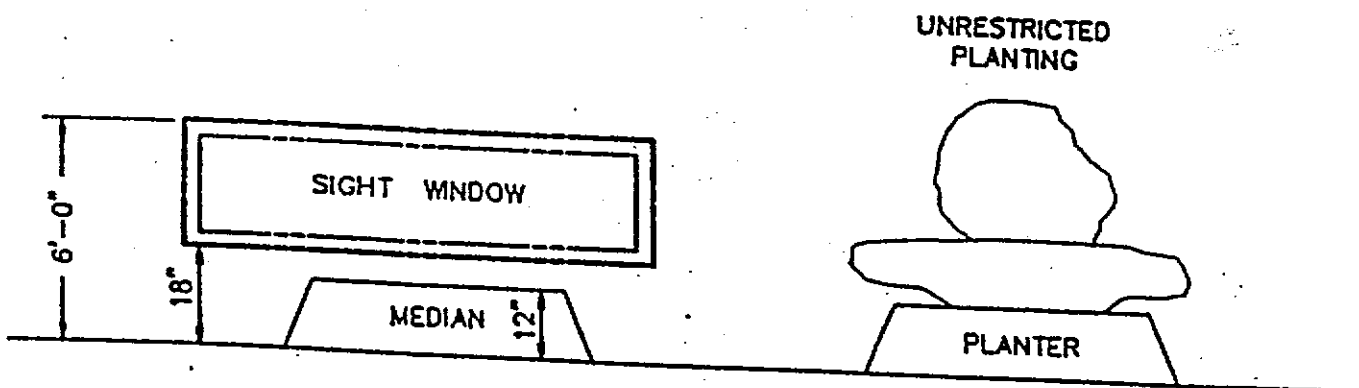
Revised: _____

Drawing No.
SP 19b

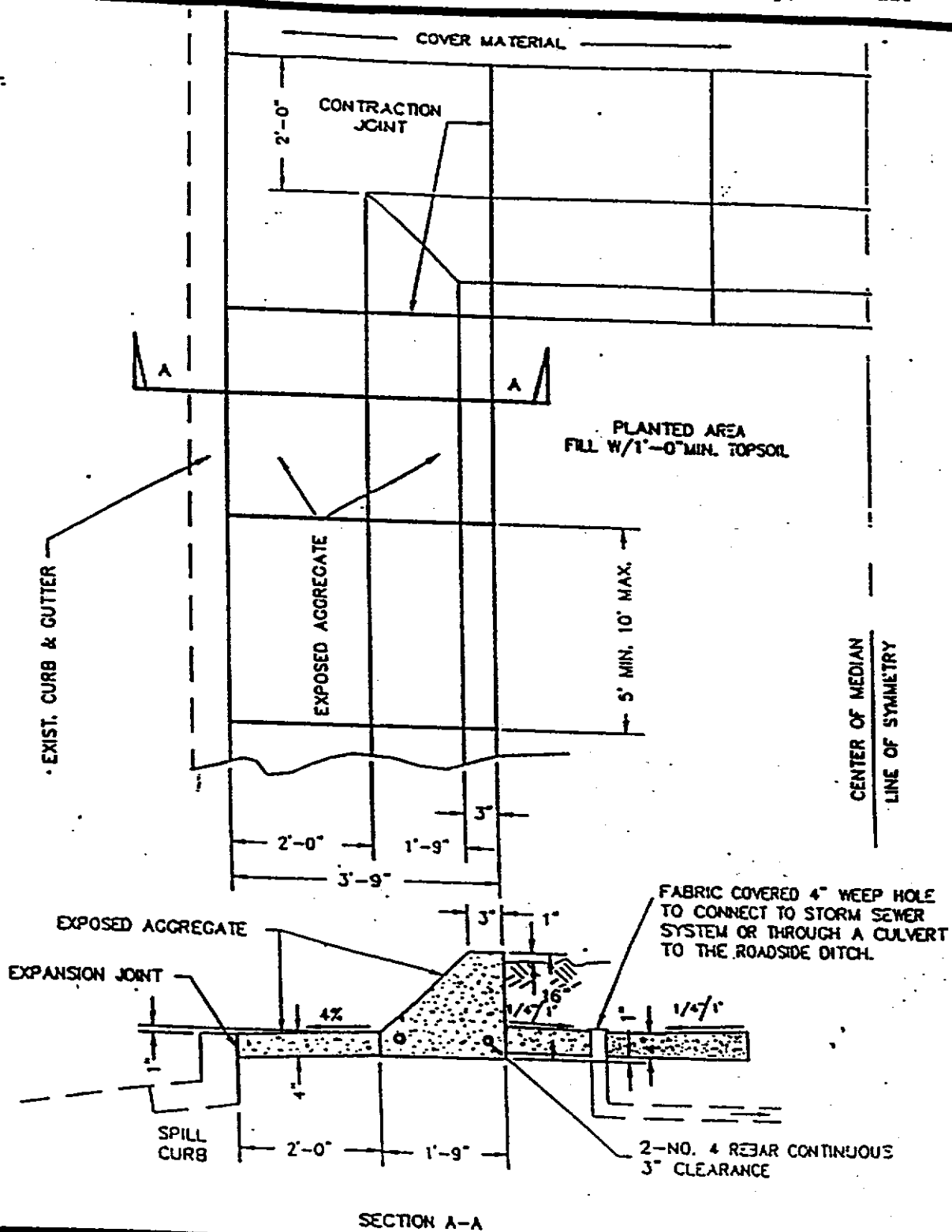


NOTES:

1. RESTRICTED PLANTING - LOW SHRUBS AND GROUND COVER
2. PLANTERS SHALL BE 50' LONG.
3. PLANTERS SHALL BE SPACED TO PROVIDE SAFE SIGHT DISTANCE.



ADOPTED 7/8/99	MEDIAN PLANTER	Issued: _____
	Teller County	Revised: _____
		Drawing No. SP 24



MEDIAN PLANTER

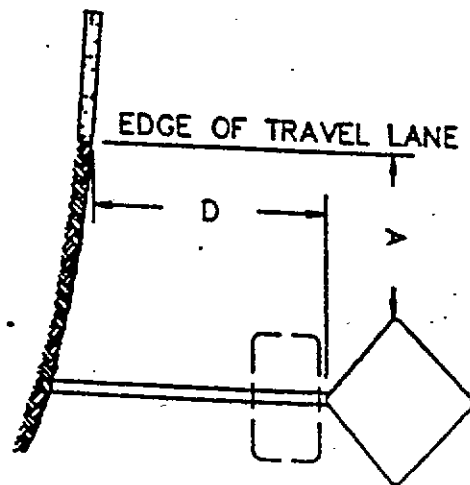
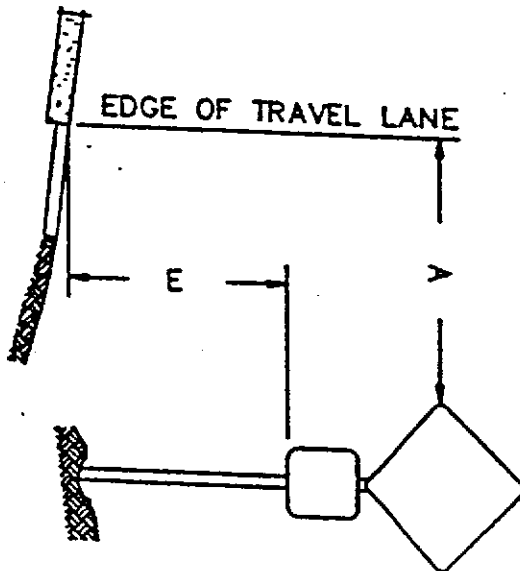
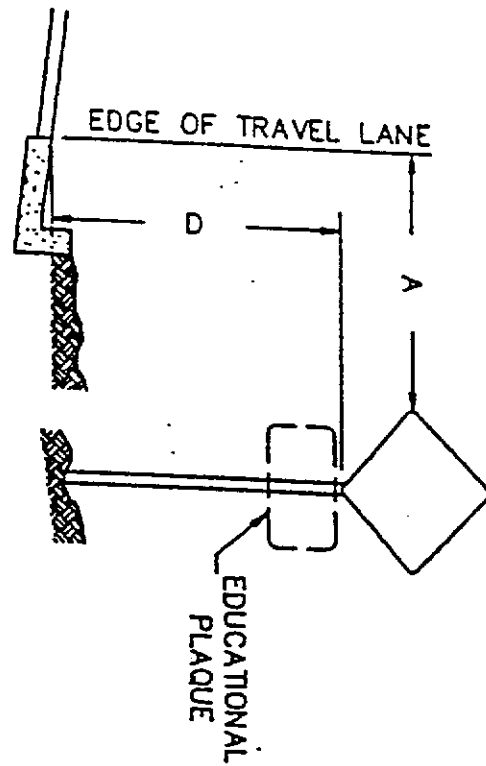
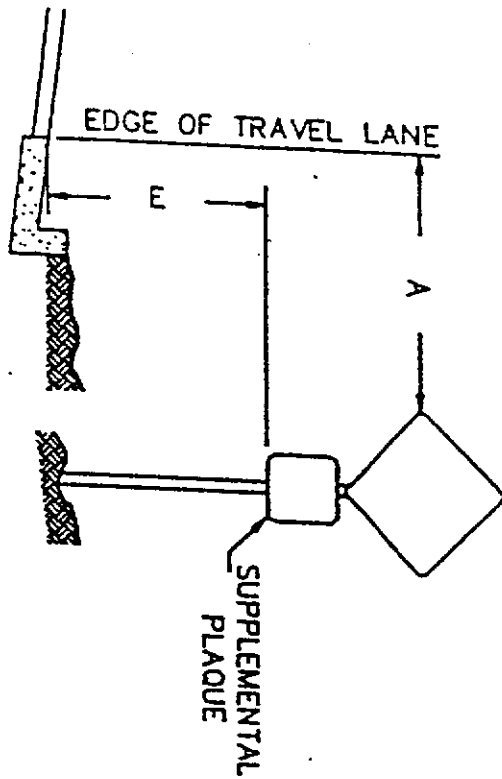
Issued: _____

Revised: _____

Drawing No.

ADOPTED
7/8/99

TELLER COUNTY



WARNING SIGN PLACEMENT

ADOPTED
7/8/99

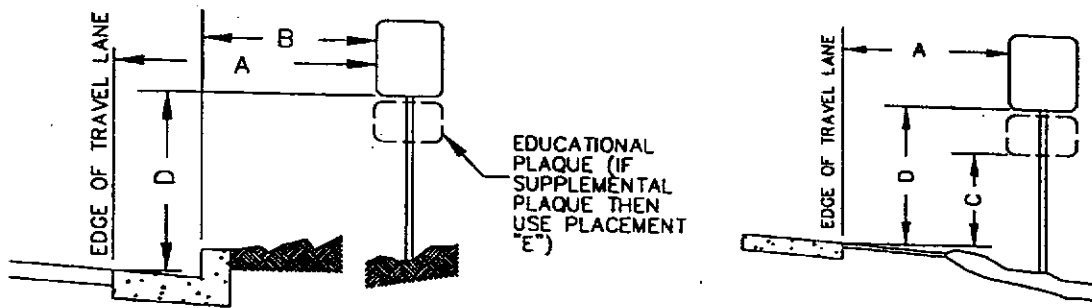
Teller County

Issued: _____

Revised: _____

Drawing No.

SP 26



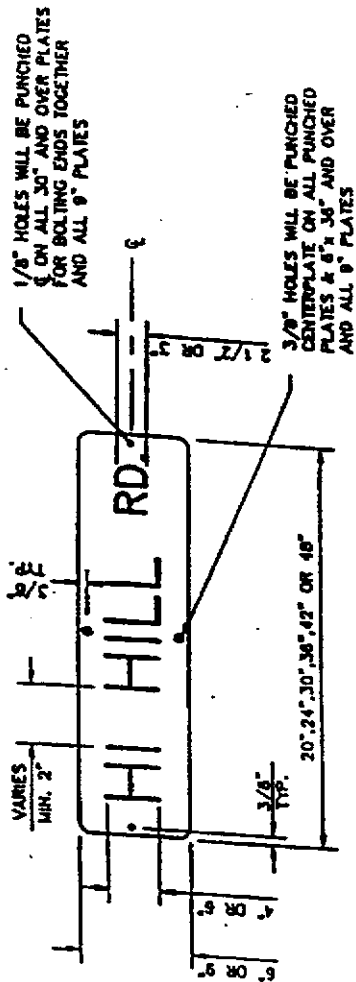
REGULATORY SIGN PLACEMENT

LATERAL PLACEMENT					
	KEY	LOCAL STREETS		COLLECTORS & ARTERIALS	
		MINIMUM	NORMAL	MINIMUM	NORMAL
RURAL	A	12'-0"	12'-0"	12'-0"	12'-0"
URBAN	B	1'-0"	2'-0"	1'-0"	2'-0"

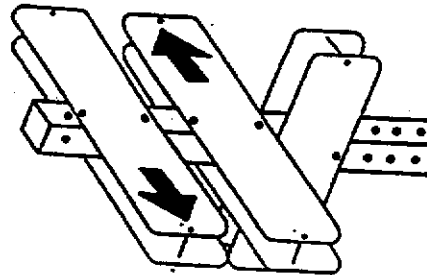
VERTICAL PLACEMENT (MINIMUM)				
KEY	URBAN		RURAL	
	WITH SIDEWALKS	W/OUT SIDEWALKS	WITH SIDEWALKS	W/OUT SIDEWALKS
C	6'-0"	6'-0"	6'-0"	6'-0"
D	7'-0"	7'-0"	7'-0"	7'-0"
E	6'-0"	6'-0"	6'-0"	6'-0"

* A CLEARANCE OF 1 FOOT FROM THE CURB FACE IS PERMISSIBLE WHERE SIDEWALK WIDTH IS LIMITED OR WHERE EXISTING POLES ARE CLOSE TO THE CURB.

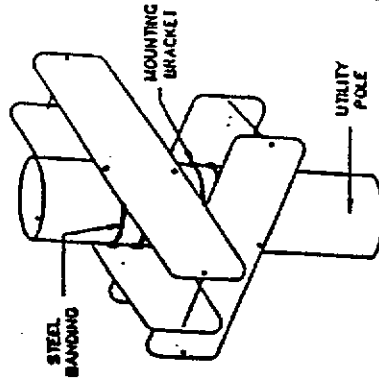
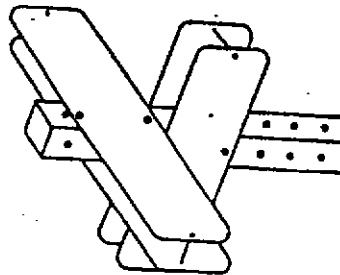
ADOPTED 7/8/99	REGULATORY SIGN PLACEMENT	Issued: _____
	Teller County	Revised: _____
		Drawing No. SP.27



DETAIL 2



DETAIL 3



STREET SIGN ASSEMBLY
 ON UTILITY POLE WHERE
 ALLOWED BY UTILITY

ADOPTED
 7/8/99

STREET SIGN ASSEMBLY

Teller County

Issued: _____

Revised: _____

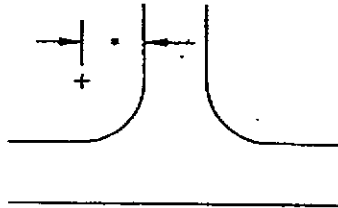
Drawing No.

SP.28

NOTE:

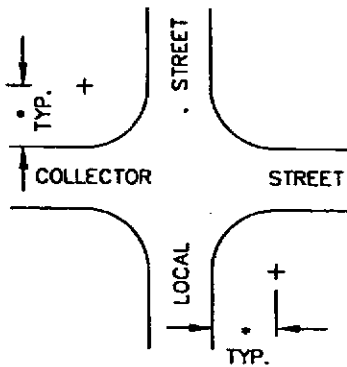
- SEE SECTION 4.13.5 OF THESE STANDARDS FOR DISTANCE

T-INTERSECTION



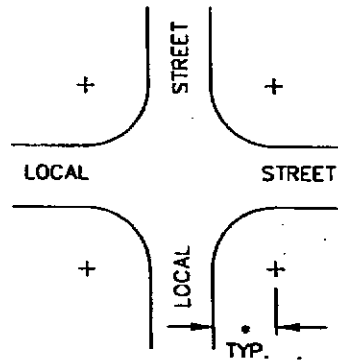
ASSEMBLY MUST BE PLACED AT THIS LOCATION

LOCAL-COLLECTOR STREET INTERSECTION



ASSEMBLY SHALL BE LOCATED AT BOTH LOCATIONS.

LOCAL-LOCAL STREET INTERSECTION



ASSEMBLY SHALL BE LOCATED AT ANY TWO OF THESE LOCATIONS, LOCATED DIAGONALLY ACROSS FROM EACH OTHER.

ADOPTED
7/8/99

STREET NAME
ASSEMBLY LOCATIONS

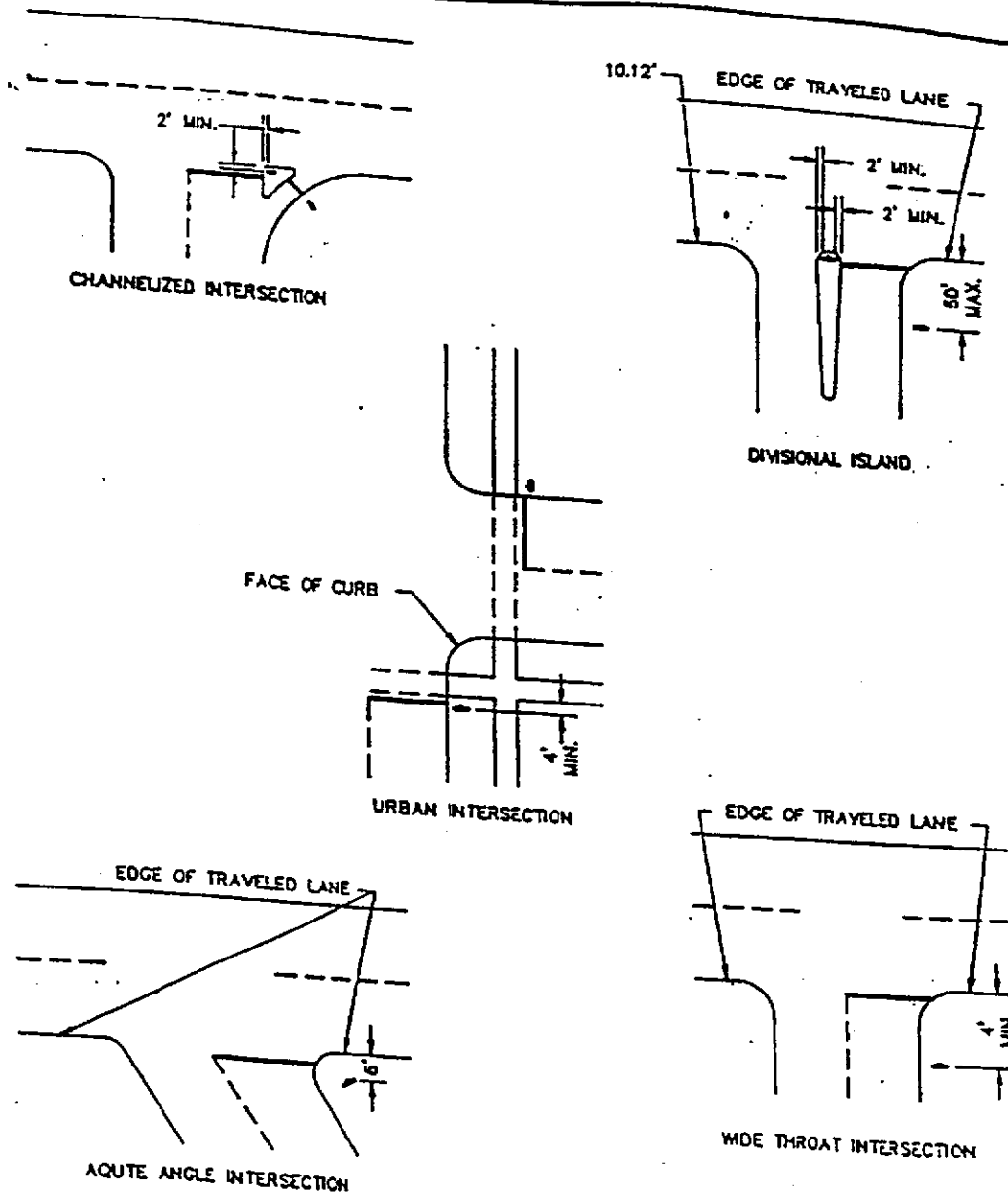
Teller County

Issued: _____

Revised: _____

Drawing No.

SP.29



ADOPTED
7/8/99

TYPICAL LOCATIONS-STOP SIGNS
AND YIELD SIGNS

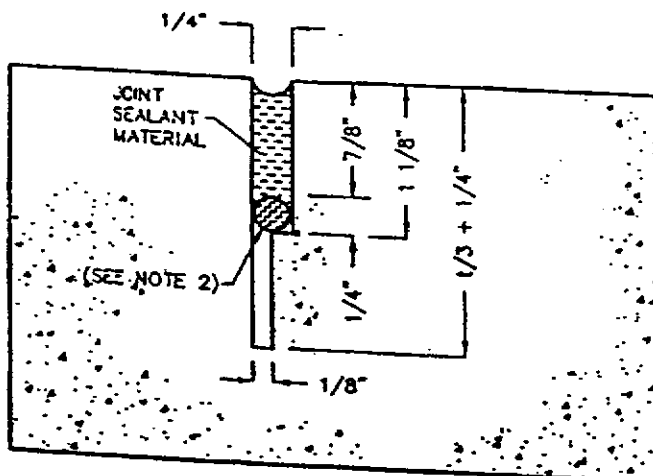
Teller County

Issued: _____

Revised: _____

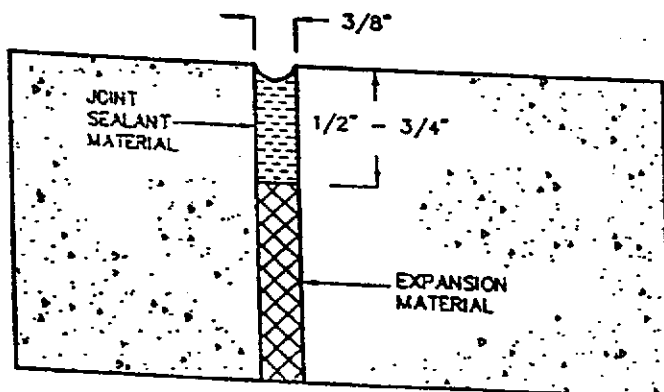
Drawing No.
SP 20

SAWED JOINT



NOTE:
 WASH & BLOW OUT WITH FORCED AIR UNTIL
 DRY BEFORE APPLYING SEALANT MATERIAL

EXPANSION JOINT



NOTE:
 1. JOINT SEALANT MATERIAL MUST MEET ASTM 3406.
 2. NYLON ROPE OR OPEN CEL POLYURETHANE STRAND.

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 7/8/99

SAWED JOINT
 AND EXPANSION JOINT

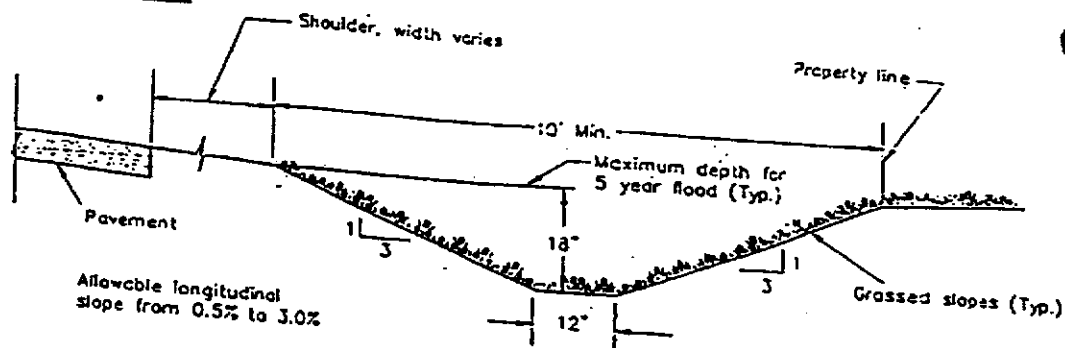
Teller County

Issued: _____

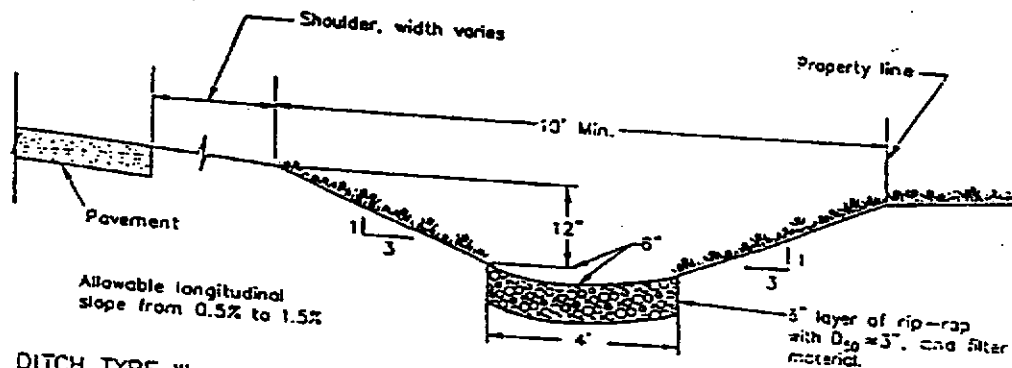
Revised: 7-95

Drawing No
 SP.31

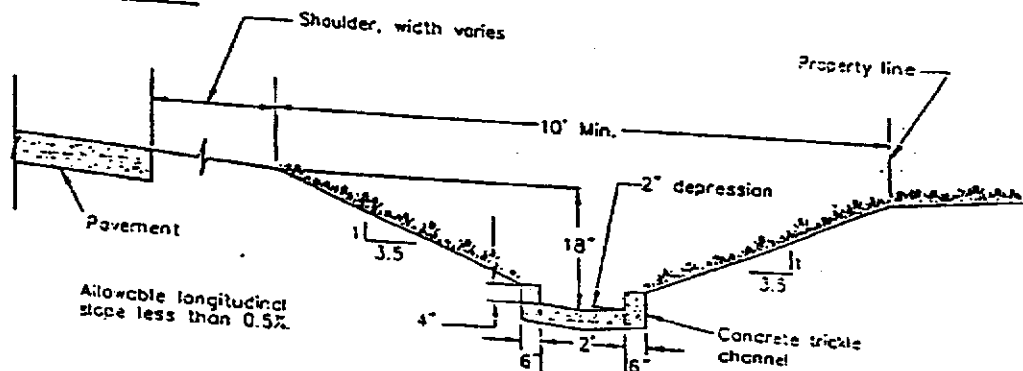
DITCH TYPE I



DITCH TYPE II



DITCH TYPE III



ADOPTED
 7/8/99

ROADSIDE DITCH SECTIONS

Teller County

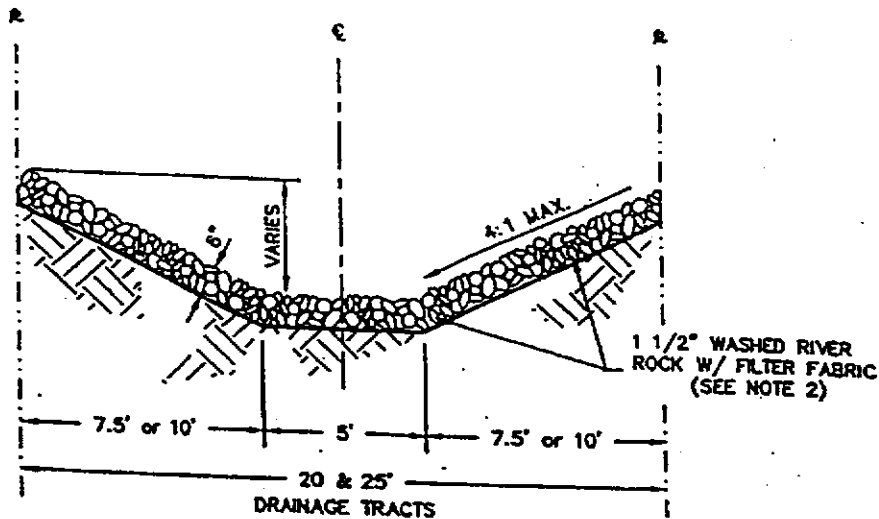
Issued: _____

Revised: _____

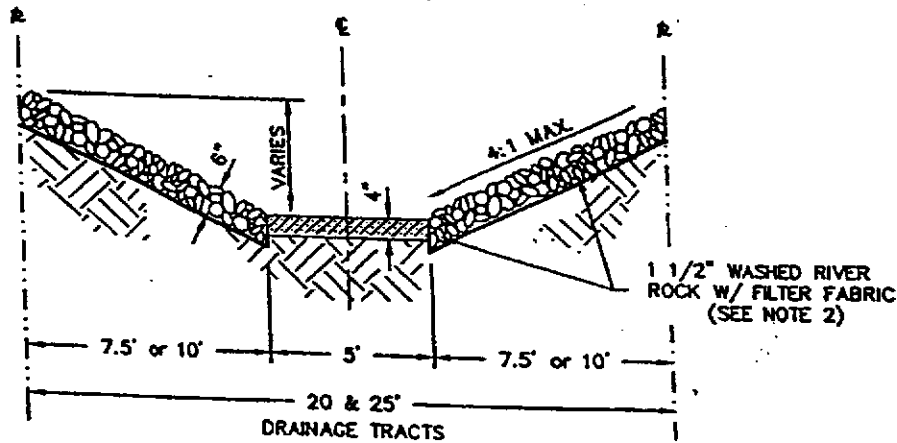
Drawing No.

CP 32a

TYPICAL CROSS SECTION



CROSS SECTION WITH OPTIONAL SIDEWALK (SEE NOTE BELOW)



- NOTES:
1. OPTIONAL 4" CONCRETE SIDEWALK MAY BE USED ONLY WITH THE DISTRICT'S APPROVAL.
 2. FILTER FABRIC IS TARABOND #1112-12-4 OR EQUIVALENT.
 3. LONGITUDINAL SLOPE SPECIFICATION, MIN. 2% MAX. 25%.

ADOPTED
7/8/99

EMERGENCY OVERFLOW CHANNEL
(IN DRAINAGE TRACT)

Teller County

Issued: _____

Revised: 7-95

Drawing No.
SP32b