

12 22 22

Updated Town of Union Vale A215 Figure 1 – Street Specifications

Requirement*	Collector Road	Commercial Street	Subdivision Street – Public or Private
Right-of-way (Feet)	60	60	50
Clearing width (Feet)	60	60	50
Grading Width (Feet)	60	60	36
Pavement	20	20	20
Shoulder Width (Feet)**	4	5	3
Storm Drains	Yes	Yes	Yes
Compacted Gravel Foundation Course (inches thick)	12	12	12
Base Course Asphalt (inches thick)	4	5	3
Fine Course Asphalt (inches thick)	2.5	2.5	2
Berms	Asphaltic berms shall be provided if required by Town		
Shoulder Treatment	12-inch gravel base and 5 inches of either Item 4 or crushed stone, compacted		
Sidewalks	If required by town		
Monuments	Yes	Yes	Yes
Street Name Signs	Yes	Yes	Yes

Notes

- All requirements stated are minimum requirements except where otherwise stated.
- Where asphaltic berms are not provided, otherwise none required.

Updated Town of Union Vale A215 Figure 1A – Street Specifications: Summary of Subdivision Street Specifications

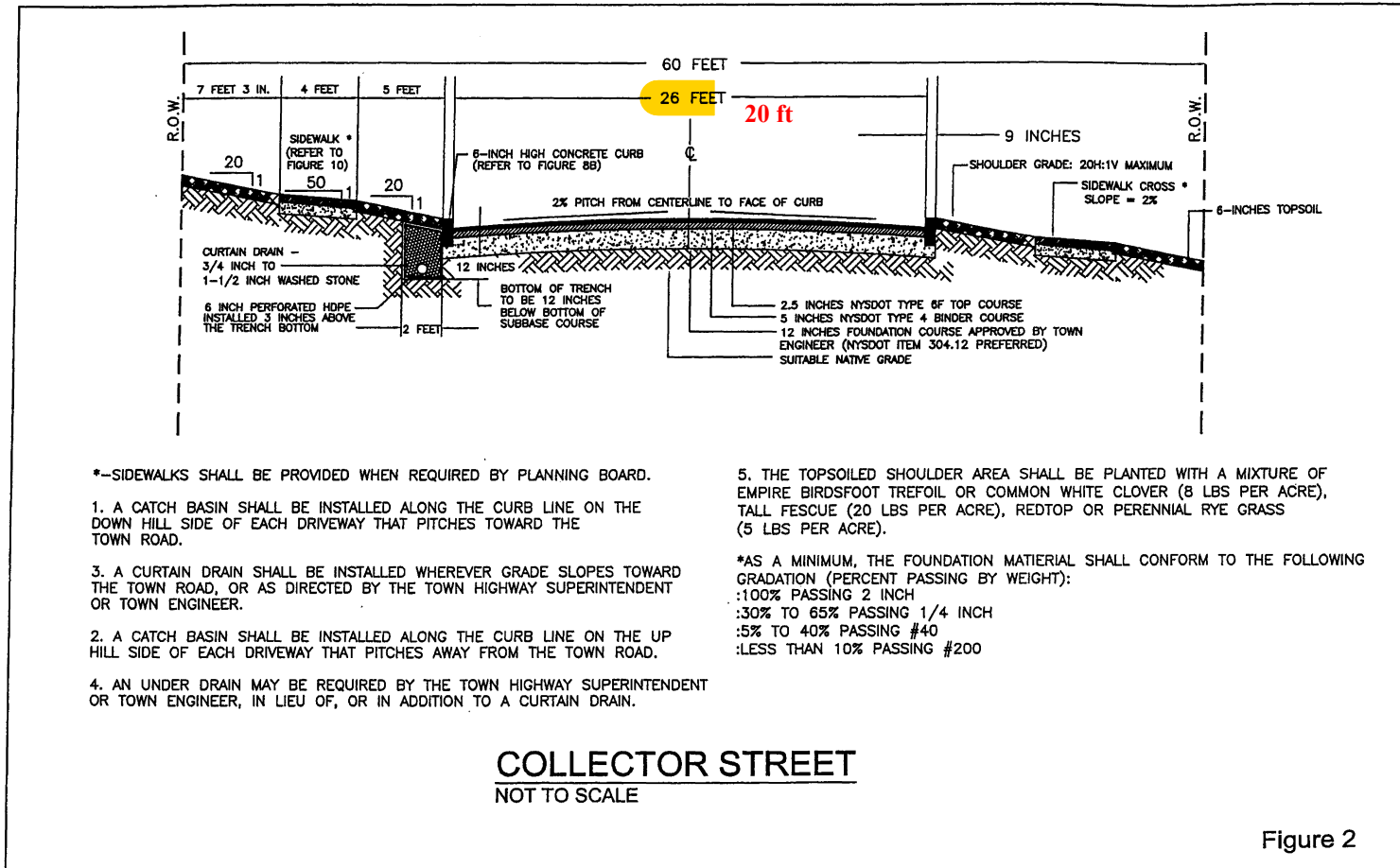
Type	Specifications
Right-of-way Width	45 feet maximum
Clearing Width	45 feet maximum
Grading Width	32 feet minimum
Pavement Width	20 feet with or without berms
Shoulder Width	3 feet minimum each if curbs or berms are not provided
Storm Drains	As required by Planning Board
Foundation Course (mechanically compacted gravel)	12 inches minimum
Pavement Base Course*	3 inches asphalt concrete

A215 Figure 1 and 1 A.

Wearing Surface*	2 inches asphalt concrete
Shoulder Treatment	12-inch grave base and 5-inches of either Item 4 or crushed stone compacted
Berms	Asphaltic berms shall be provided if required by the Planning Board
Sidewalk/Pedestrianways	As required by Planning Board
Monuments	As required by Planning Board
Road Name Signs	As required by Planning Board

Notes:

- Final subdivision street surface of 6 inches additional graded gravel may substitute for pavement base course ((3 inches) or asphalt concrete) and waring surface (2 inches of asphalt concrete) in the case of a conservation subdivision of 500 or more acres within the R-225 District that may be authorized by the Town Board and Planning Board pursuant to 280-a of the Town Law. This substitution shall not apply, however, where the subdivision street grade exceeds 8% at any location or within 150 feet and uphill of the right-of-way of the intersecting public highway.



*--SIDEWALKS SHALL BE PROVIDED WHEN REQUIRED BY PLANNING BOARD.

1. A CATCH BASIN SHALL BE INSTALLED ALONG THE CURB LINE ON THE DOWN HILL SIDE OF EACH DRIVEWAY THAT PITCHES TOWARD THE TOWN ROAD.
2. A CATCH BASIN SHALL BE INSTALLED ALONG THE CURB LINE ON THE UP HILL SIDE OF EACH DRIVEWAY THAT PITCHES AWAY FROM THE TOWN ROAD.
3. A CURTAIN DRAIN SHALL BE INSTALLED WHEREVER GRADE SLOPES TOWARD THE TOWN ROAD, OR AS DIRECTED BY THE TOWN HIGHWAY SUPERINTENDENT OR TOWN ENGINEER.
4. AN UNDER DRAIN MAY BE REQUIRED BY THE TOWN HIGHWAY SUPERINTENDENT OR TOWN ENGINEER, IN LIEU OF, OR IN ADDITION TO A CURTAIN DRAIN.

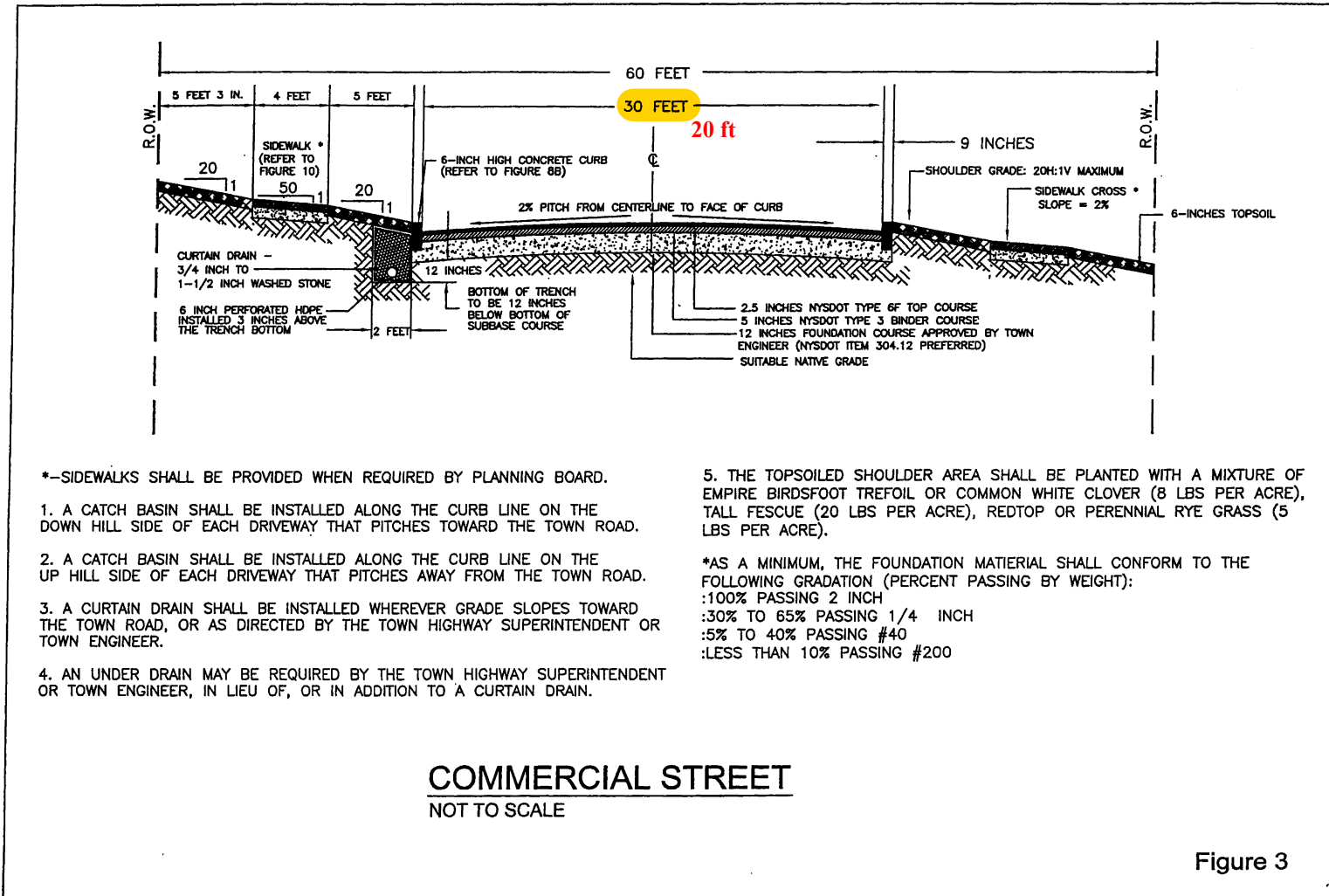
5. THE TOPSOILED SHOULDER AREA SHALL BE PLANTED WITH A MIXTURE OF EMPIRE BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER (8 LBS PER ACRE), TALL FESCUE (20 LBS PER ACRE), REDTOP OR PERENNIAL RYE GRASS (5 LBS PER ACRE).

*AS A MINIMUM, THE FOUNDATION MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION (PERCENT PASSING BY WEIGHT):

- :100% PASSING 2 INCH
- :30% TO 65% PASSING 1/4 INCH
- :5% TO 40% PASSING #40
- :LESS THAN 10% PASSING #200

Figure 2

Figure 2



*-SIDEWALKS SHALL BE PROVIDED WHEN REQUIRED BY PLANNING BOARD.

1. A CATCH BASIN SHALL BE INSTALLED ALONG THE CURB LINE ON THE DOWN HILL SIDE OF EACH DRIVEWAY THAT PITCHES TOWARD THE TOWN ROAD.
2. A CATCH BASIN SHALL BE INSTALLED ALONG THE CURB LINE ON THE UP HILL SIDE OF EACH DRIVEWAY THAT PITCHES AWAY FROM THE TOWN ROAD.
3. A CURTAIN DRAIN SHALL BE INSTALLED WHEREVER GRADE SLOPES TOWARD THE TOWN ROAD, OR AS DIRECTED BY THE TOWN HIGHWAY SUPERINTENDENT OR TOWN ENGINEER.
4. AN UNDER DRAIN MAY BE REQUIRED BY THE TOWN HIGHWAY SUPERINTENDENT OR TOWN ENGINEER, IN LIEU OF, OR IN ADDITION TO A CURTAIN DRAIN.

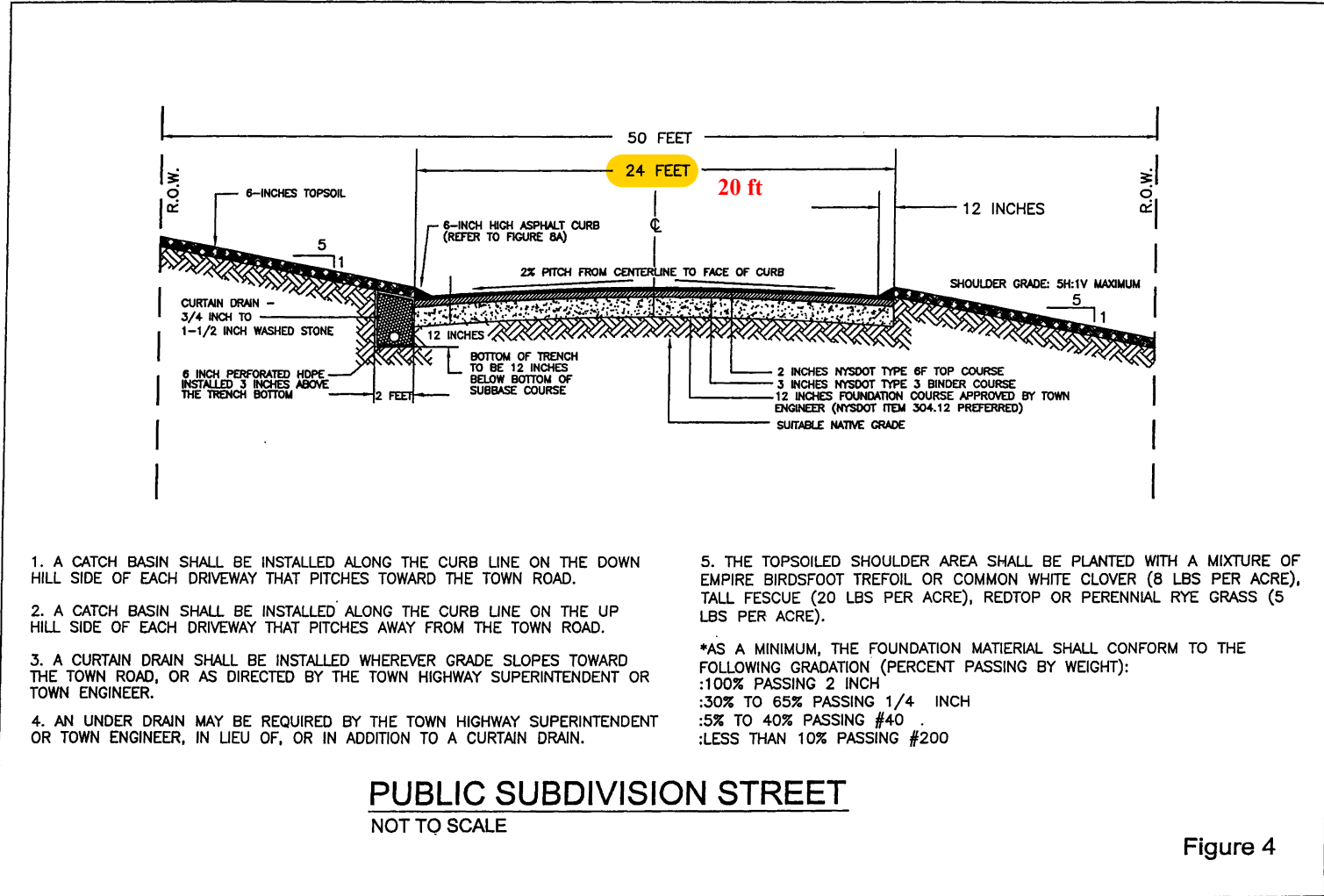
5. THE TOPSOILED SHOULDER AREA SHALL BE PLANTED WITH A MIXTURE OF EMPIRE BIRDSFOOT TREFOIL OR COMMON WHITE CLOVER (8 LBS PER ACRE), TALL FESCUE (20 LBS PER ACRE), REDTOP OR PERENNIAL RYE GRASS (5 LBS PER ACRE).

*AS A MINIMUM, THE FOUNDATION MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION (PERCENT PASSING BY WEIGHT):
 :100% PASSING 2 INCH
 :30% TO 65% PASSING 1/4 INCH
 :5% TO 40% PASSING #40
 :LESS THAN 10% PASSING #200

COMMERCIAL STREET
 NOT TO SCALE

Figure 3

Figure 3



1. A CATCH BASIN SHALL BE INSTALLED ALONG THE CURB LINE ON THE DOWN HILL SIDE OF EACH DRIVEWAY THAT PITCHES TOWARD THE TOWN ROAD.
2. A CATCH BASIN SHALL BE INSTALLED ALONG THE CURB LINE ON THE UP HILL SIDE OF EACH DRIVEWAY THAT PITCHES AWAY FROM THE TOWN ROAD.
3. A CURTAIN DRAIN SHALL BE INSTALLED WHEREVER GRADE SLOPES TOWARD THE TOWN ROAD, OR AS DIRECTED BY THE TOWN HIGHWAY SUPERINTENDENT OR TOWN ENGINEER.
4. AN UNDER DRAIN MAY BE REQUIRED BY THE TOWN HIGHWAY SUPERINTENDENT OR TOWN ENGINEER, IN LIEU OF, OR IN ADDITION TO A CURTAIN DRAIN.

5. THE TOPSOILED SHOULDER AREA SHALL BE PLANTED WITH A MIXTURE OF EMPIRE BIRDSFOOT TREFLOIL OR COMMON WHITE CLOVER (8 LBS PER ACRE), TALL FESCUE (20 LBS PER ACRE), REDTOP OR PERENNIAL RYE GRASS (5 LBS PER ACRE).

*AS A MINIMUM, THE FOUNDATION MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION (PERCENT PASSING BY WEIGHT):
 :100% PASSING 2 INCH
 :30% TO 65% PASSING 1/4 INCH
 :5% TO 40% PASSING #40
 :LESS THAN 10% PASSING #200

STREET SPECIFICATIONS
Figure 4

Figure 4

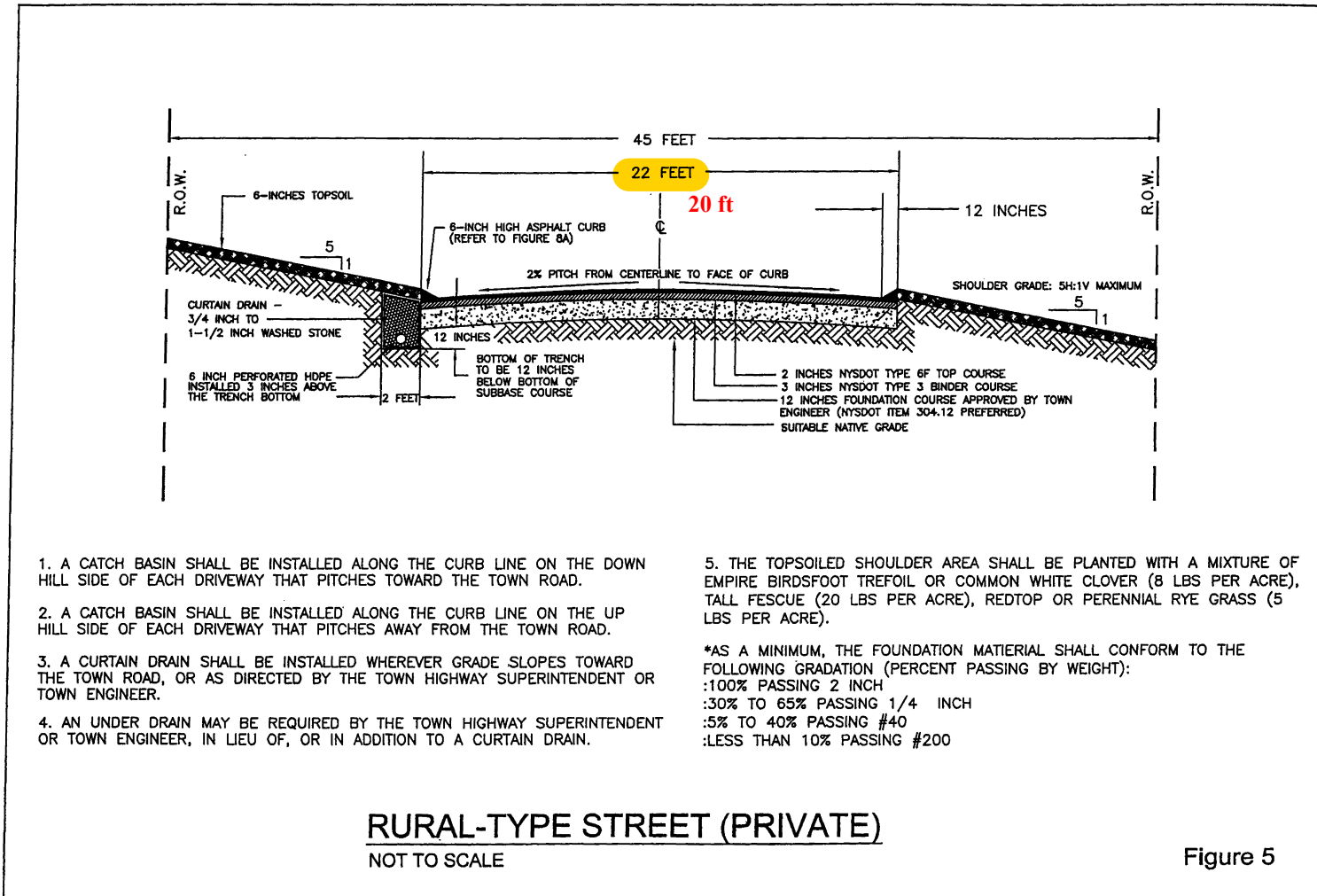
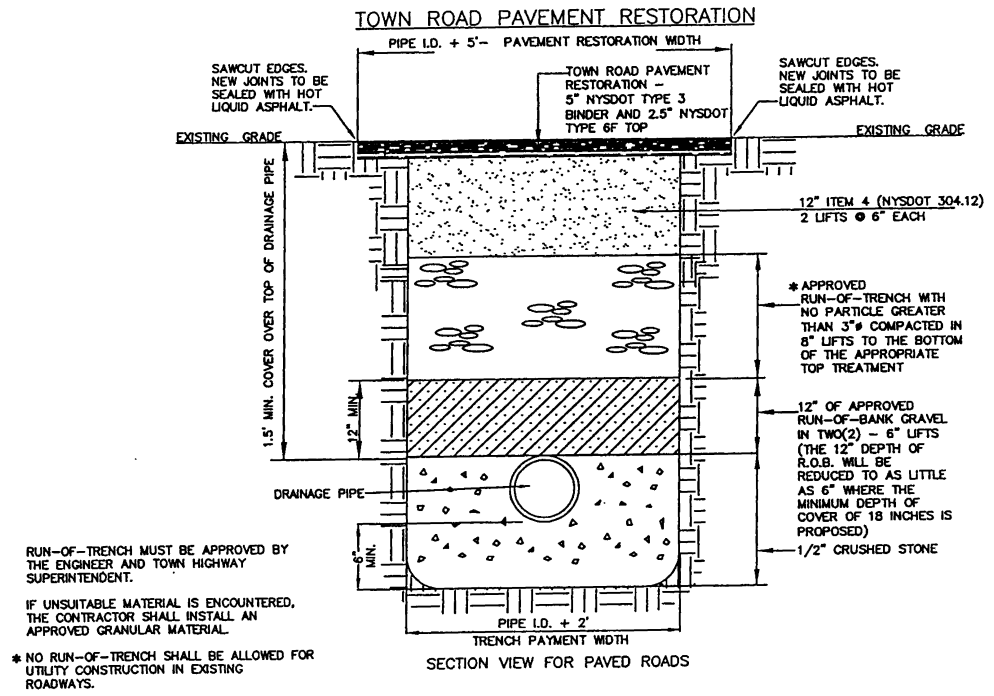


Figure 5

Figure 5

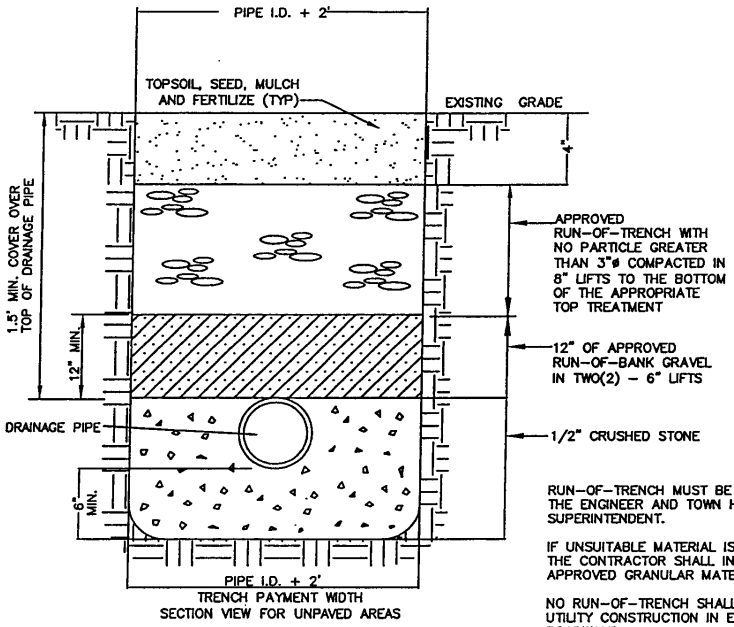
Figure 6A



TYPICAL STORM SEWER TRENCH & PIPE DETAIL
NOT TO SCALE

Figure 6A

Figure 6B



RUN-OF-TRENCH MUST BE APPROVED BY THE ENGINEER AND TOWN HIGHWAY SUPERINTENDENT.

IF UNSUITABLE MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL INSTALL AN APPROVED GRANULAR MATERIAL.

NO RUN-OF-TRENCH SHALL BE ALLOWED FOR UTILITY CONSTRUCTION IN EXISTING ROADWAYS.

TYPICAL STORM SEWER TRENCH & PIPE DETAIL
IN LANDSCAPE AREAS
 NOT TO SCALE

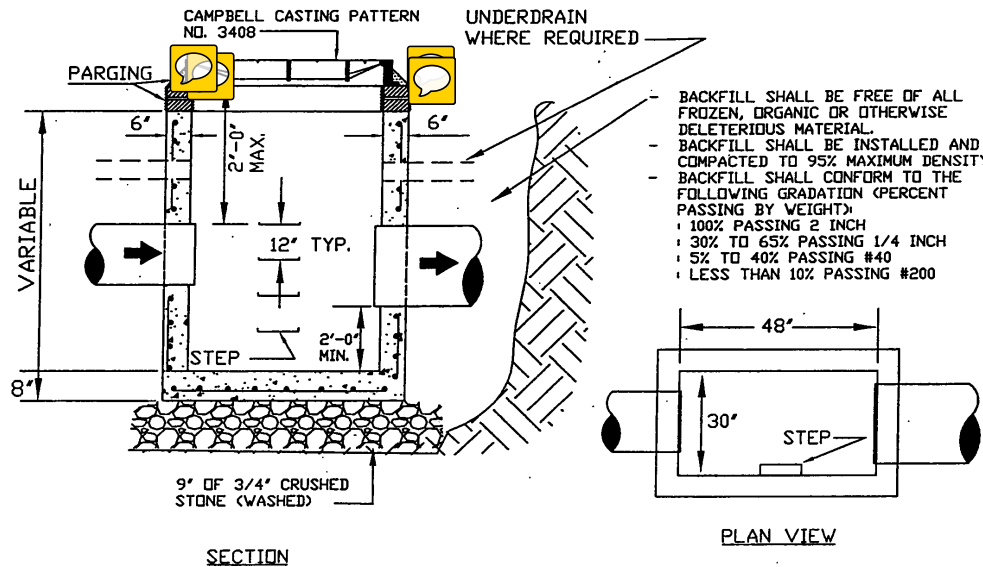
Figure 6B

Figure 7

Sticky notes point to risers. Pre-cast concrete risers only.

NOTES:

1. BASE & RISER SECTIONS SHALL BE PRECAST & MONOLITHICALLY POURED. THE CONCRETE SHALL BE 4,000 PSI AT TIME OF DELIVERY AND THE STRUCTURE SHALL BE CERTIFIED BY MANUFACTURER AS SUITABLE FOR H-20 LOADING.
2. ALL BASINS SHALL HAVE 2'-0" MINIMUM SUMPS.
3. WHERE GROUNDWATER ELEVATION REQUIRES ANTI-BUOYANCY MEASURES, CALCULATIONS SHALL BE SUBMITTED TO THE TOWN ENGINEER TO DEMONSTRATE THAT FLOTATION WILL NOT OCCUR.
4. LADDER RUNGS CONFORMING TO THE LATEST N.Y.S.D.O.T. SPECIFICATIONS.
5. ALL PIPES SHALL BE LAID OR CUT FLUSH WITH THE INSIDE OF THE BASIN WALL & SHALL BE FIRMLY PARGED IN PLACE, BOTH INSIDE AND OUTSIDE.
6. THE TOP OF PIPES SHALL BE SET AT THE SAME ELEVATION WHERE THE INLET PIPE IS A SMALLER DIAMETER THAN THE OUTLET PIPE.
7. THE CAST IRON FRAME & GRATE SHALL BE BROUGHT TO GRADE TO MATCH BOTH CROWN OF ROAD & SLOPE OF ROAD. A MAX OF TWO (2) CONCRETE BRICKS OR ONE (1) 6" SOLID BLOCK WILL BE PERMITTED, PARGED INSIDE & OUTSIDE.



- BACKFILL SHALL BE FREE OF ALL FROZEN, ORGANIC OR OTHERWISE DELETERIOUS MATERIAL.
- BACKFILL SHALL BE INSTALLED AND COMPACTED TO 95% MAXIMUM DENSITY
- BACKFILL SHALL CONFORM TO THE FOLLOWING GRADATION (PERCENT PASSING BY WEIGHT):
 - 100% PASSING 2 INCH
 - 30% TO 65% PASSING 1/4 INCH
 - 5% TO 40% PASSING #40
 - LESS THAN 10% PASSING #200

PRECAST CONCRETE CATCH BASIN

NOT TO SCALE

Any catch basin risers have to be pre-cast.
No block or brick. Pre-cast risers only.

Figure 7

Figure 8A

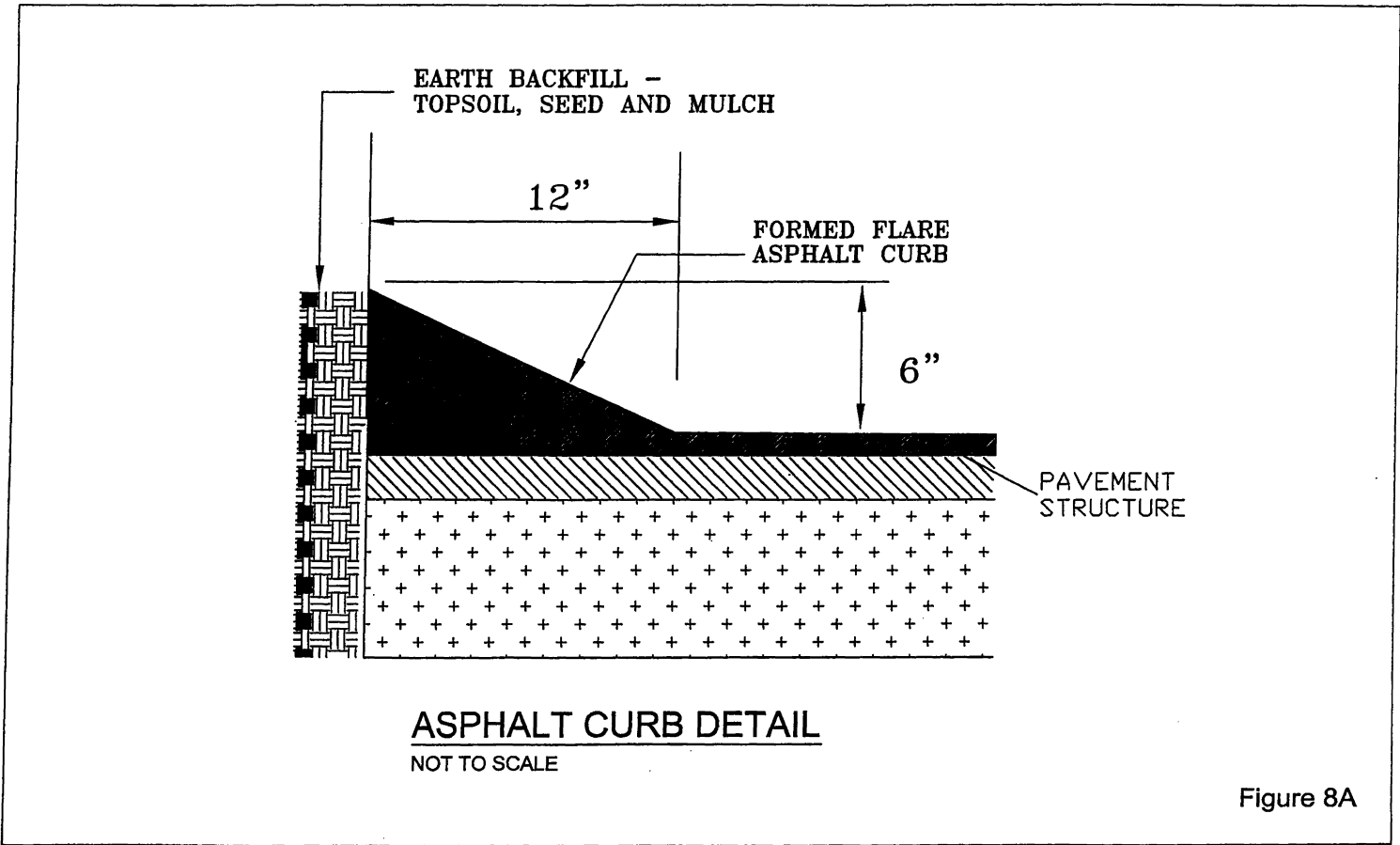
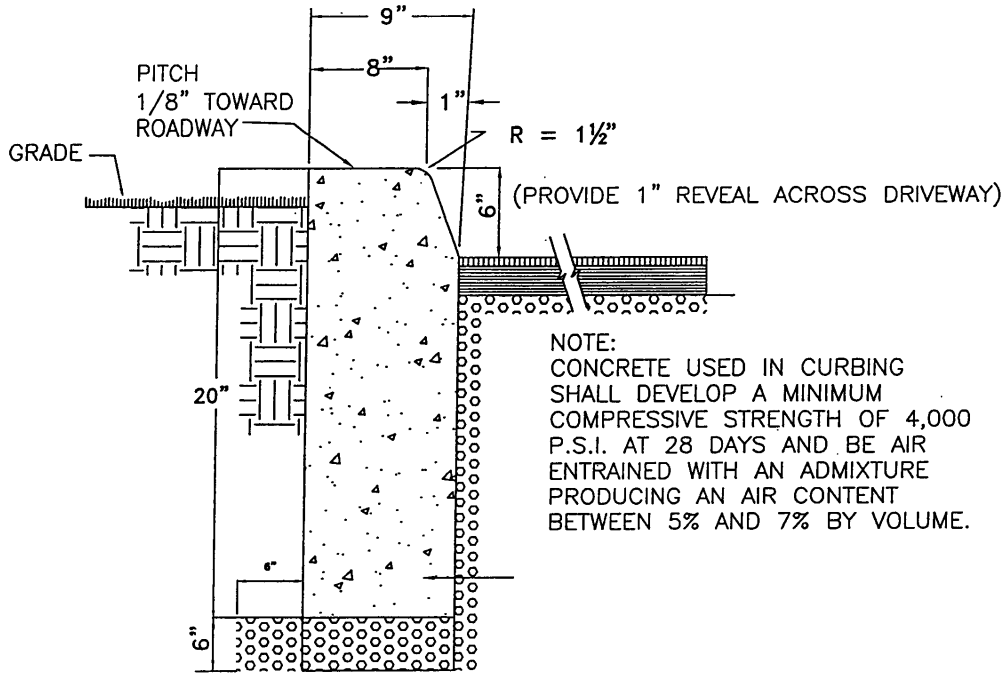


Figure 8A

Figure 8B



CONCRETE CURB DETAIL
NOT TO SCALE

Figure 8B

Figure 9

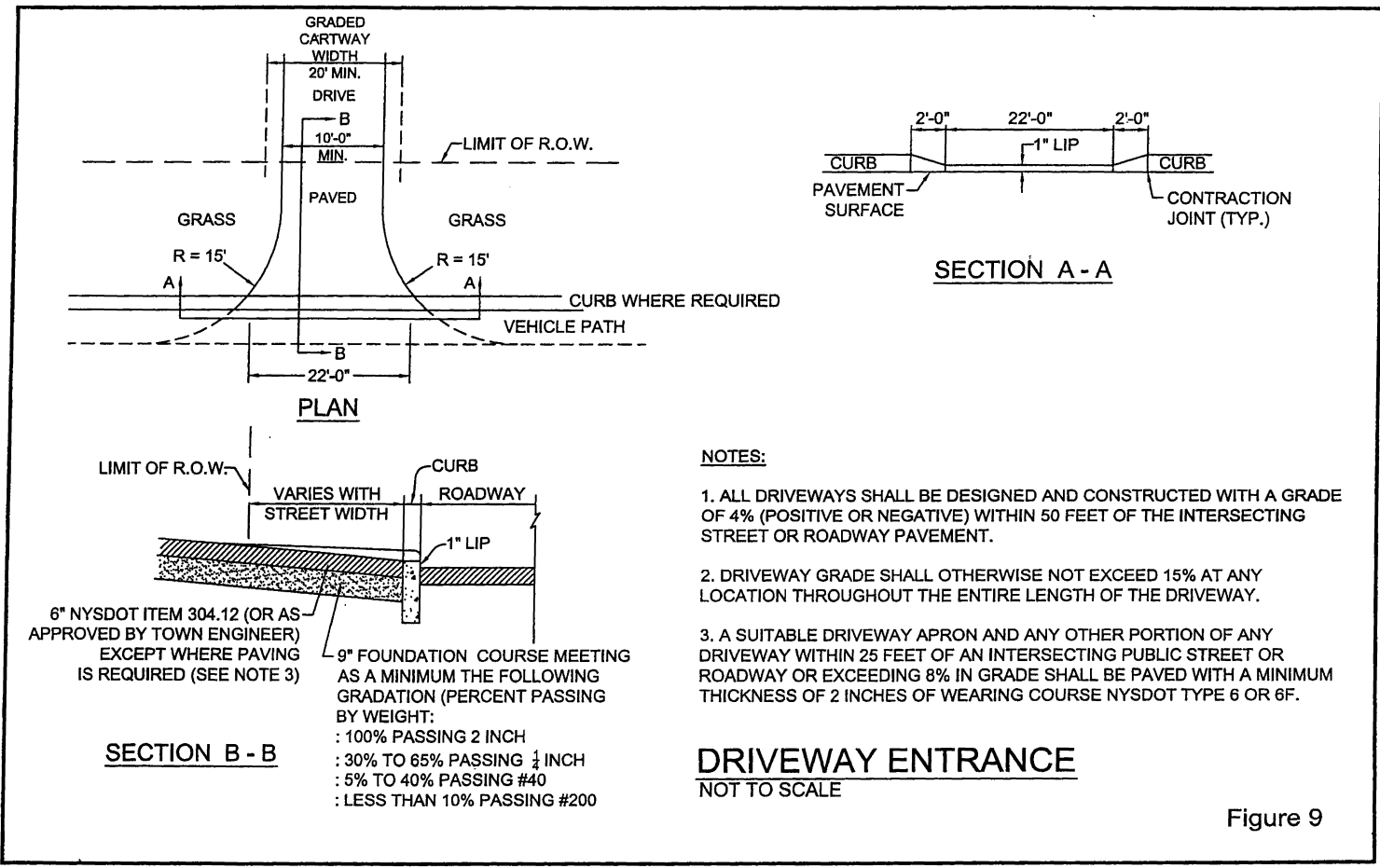


Figure 9

Figure 10

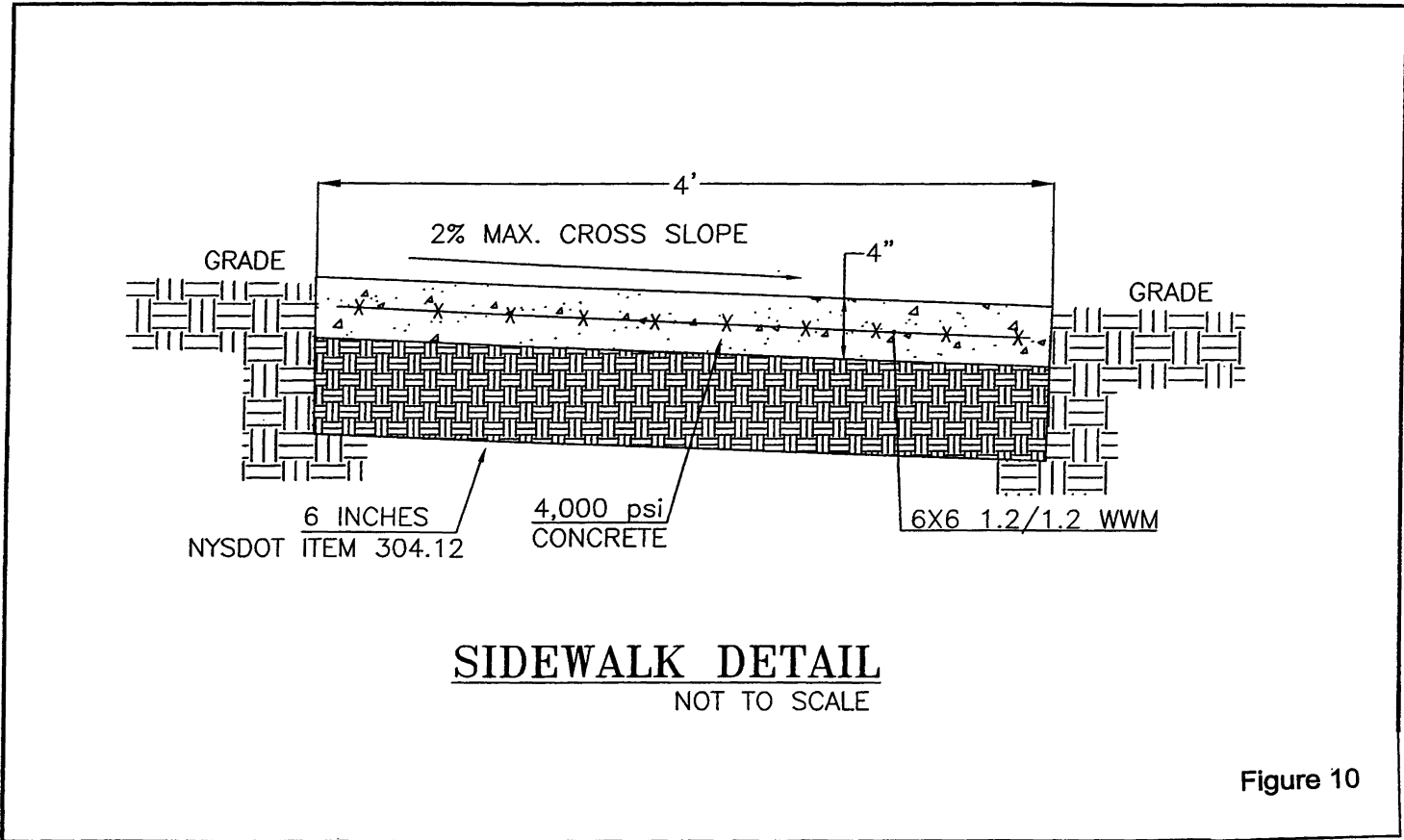


Figure 10

Figure 11A

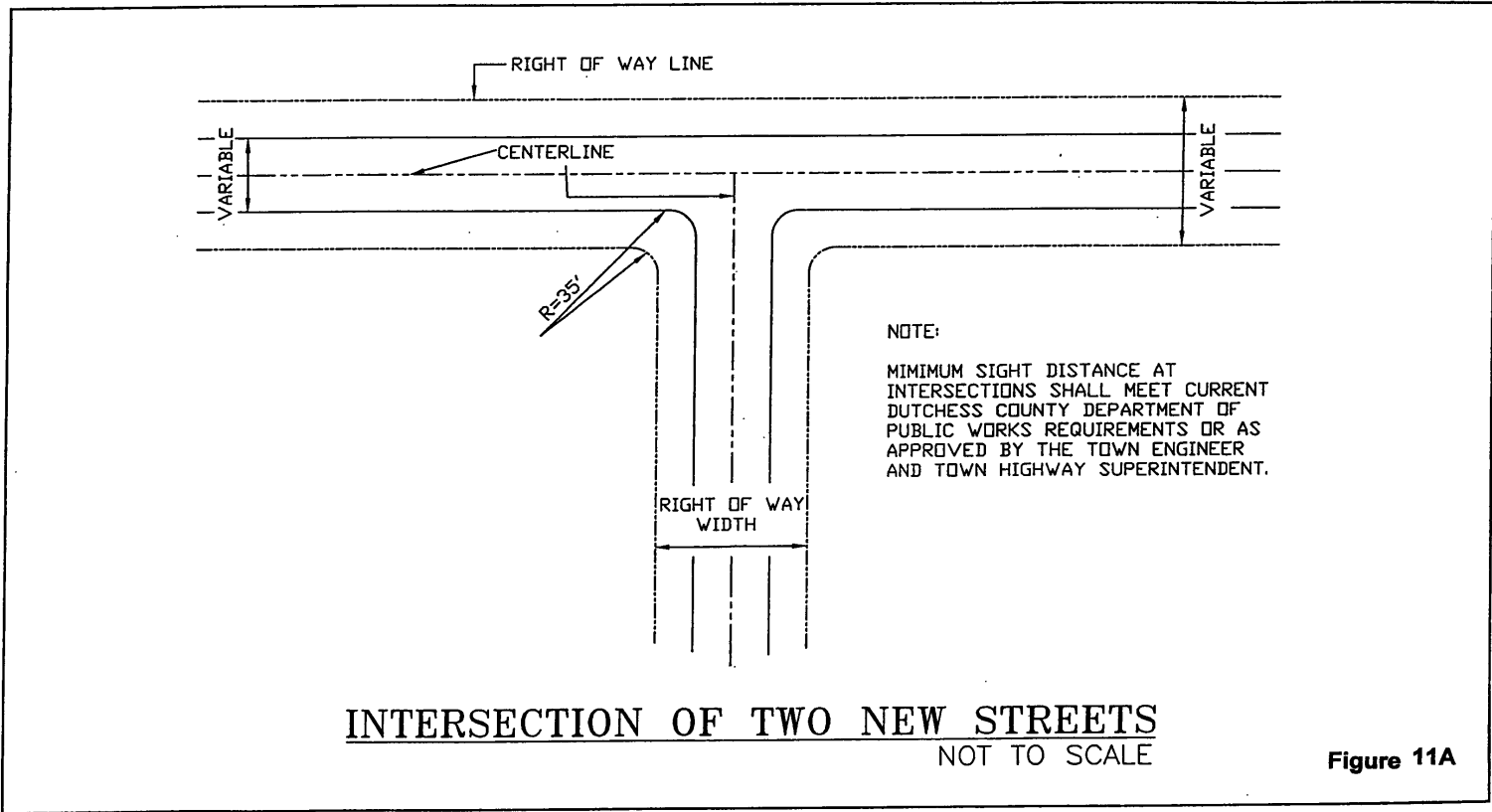


Figure 11B

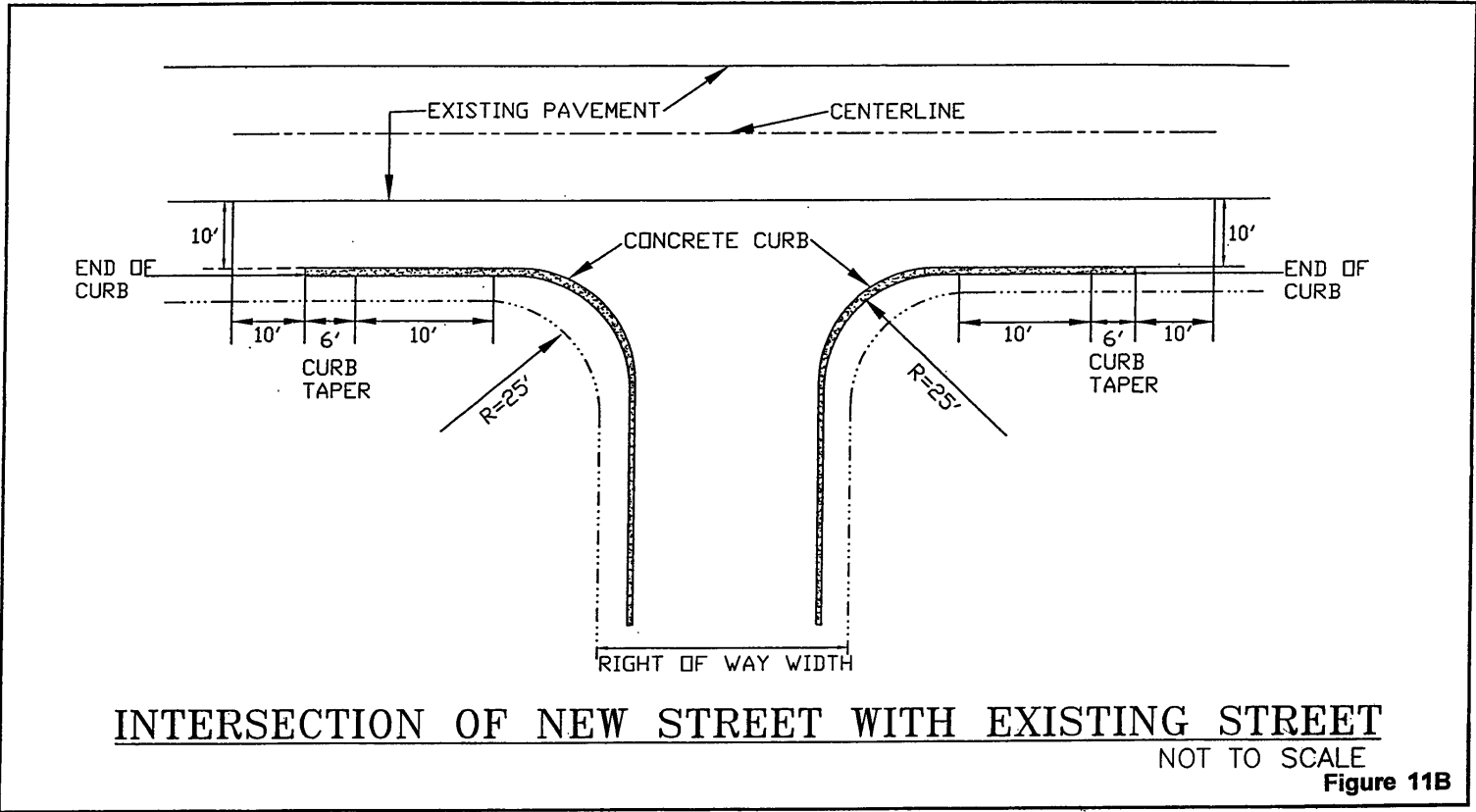


Figure 12A

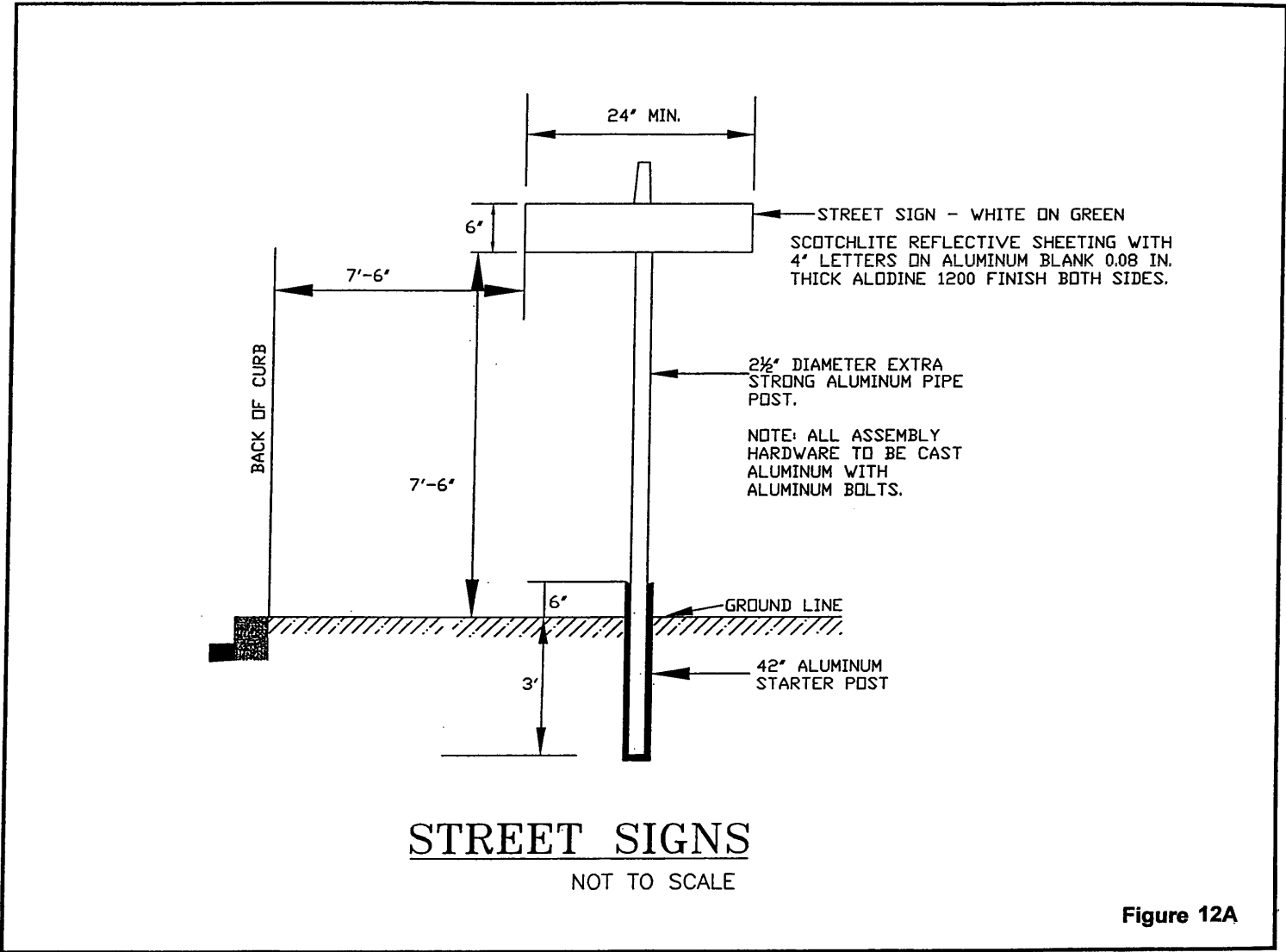
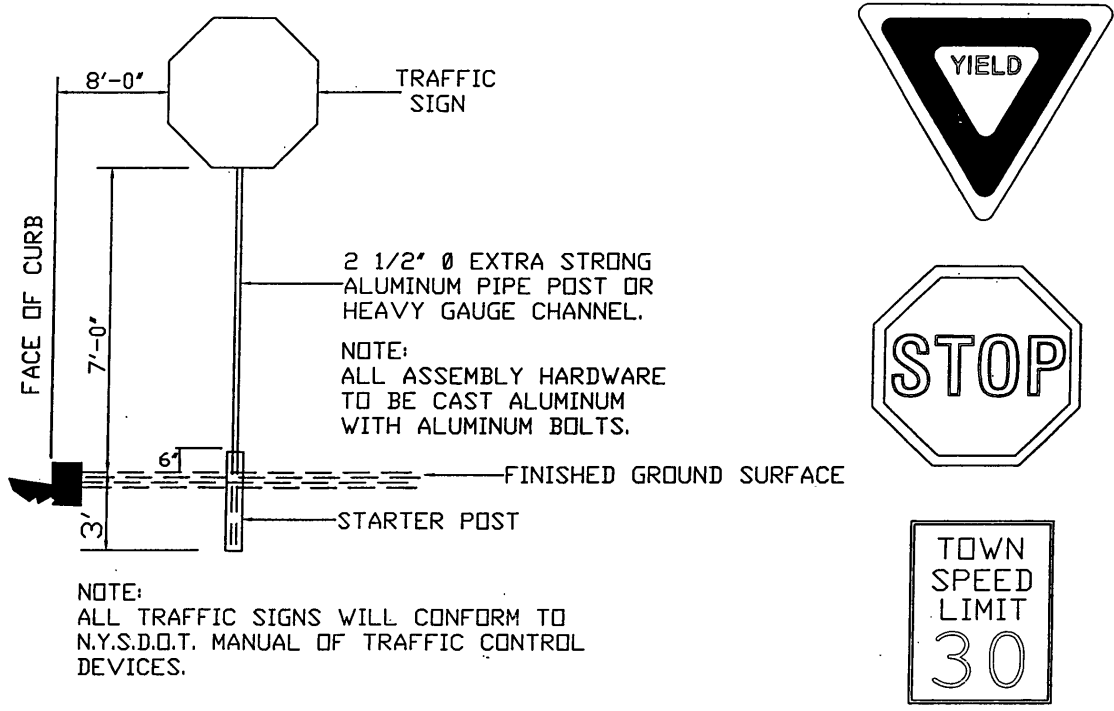


Figure 12B



TRAFFIC SIGNS

NOT TO SCALE

Figure 12B

Figure 13

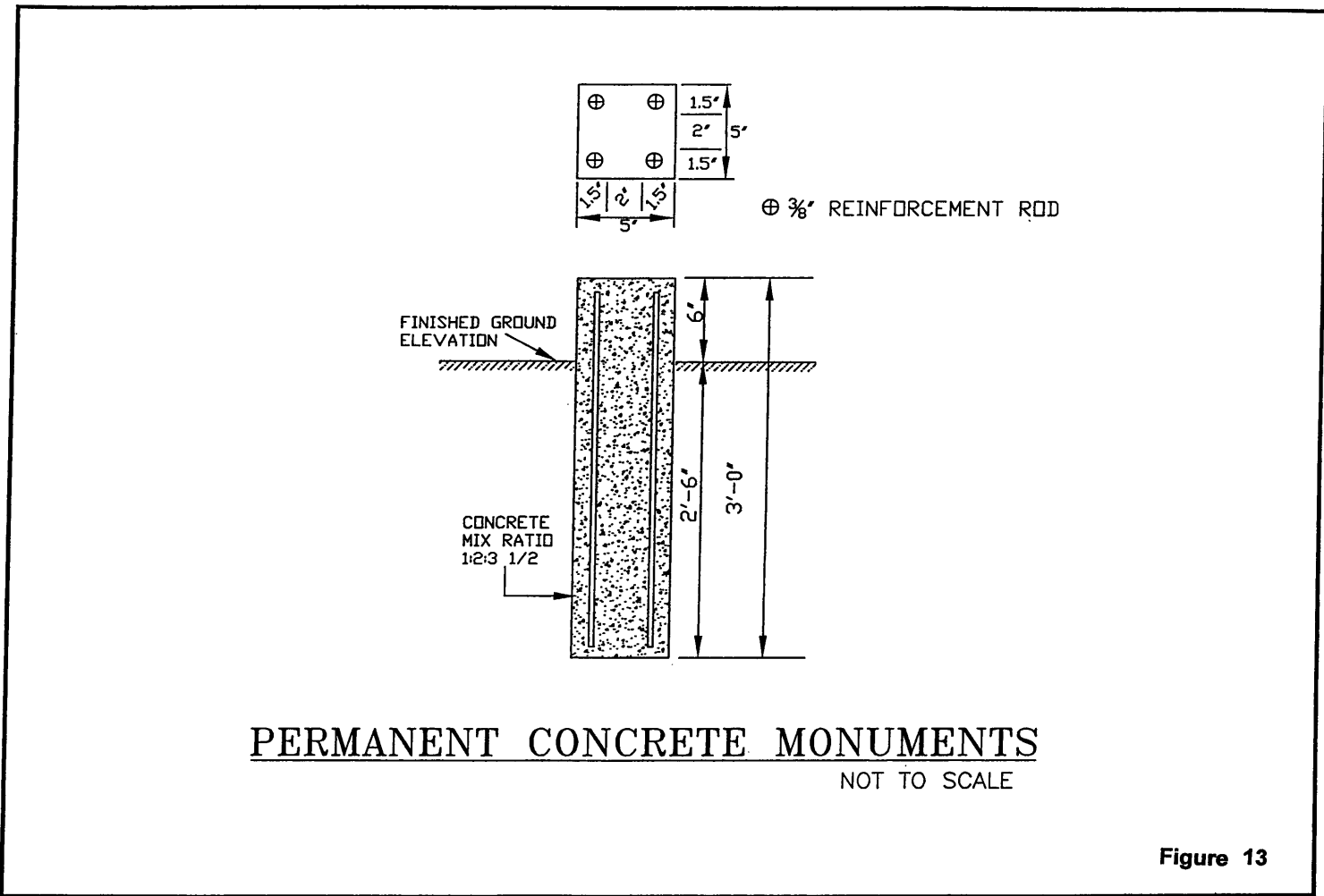


Figure 13

Figure 14

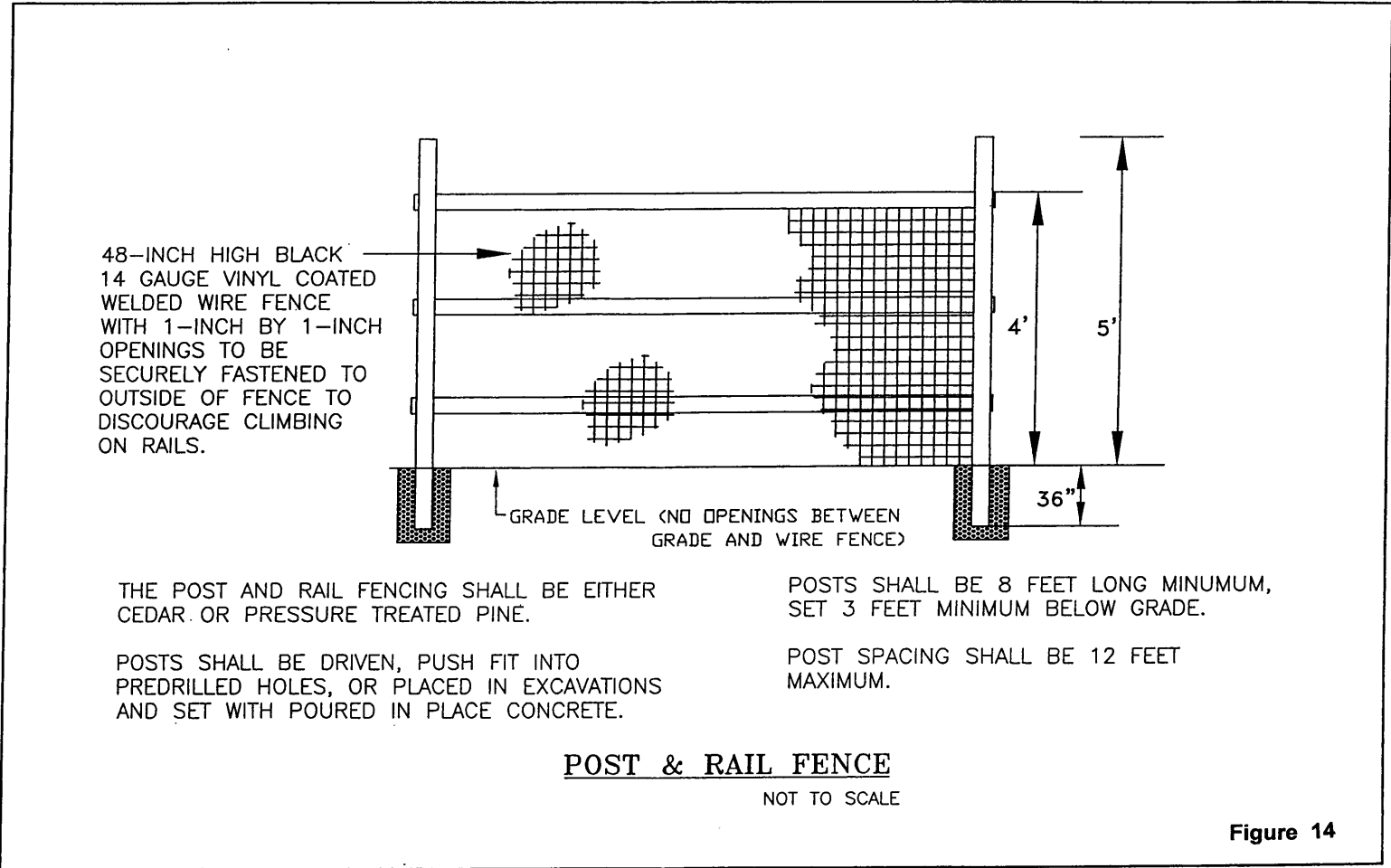


Figure 14

Figure 15

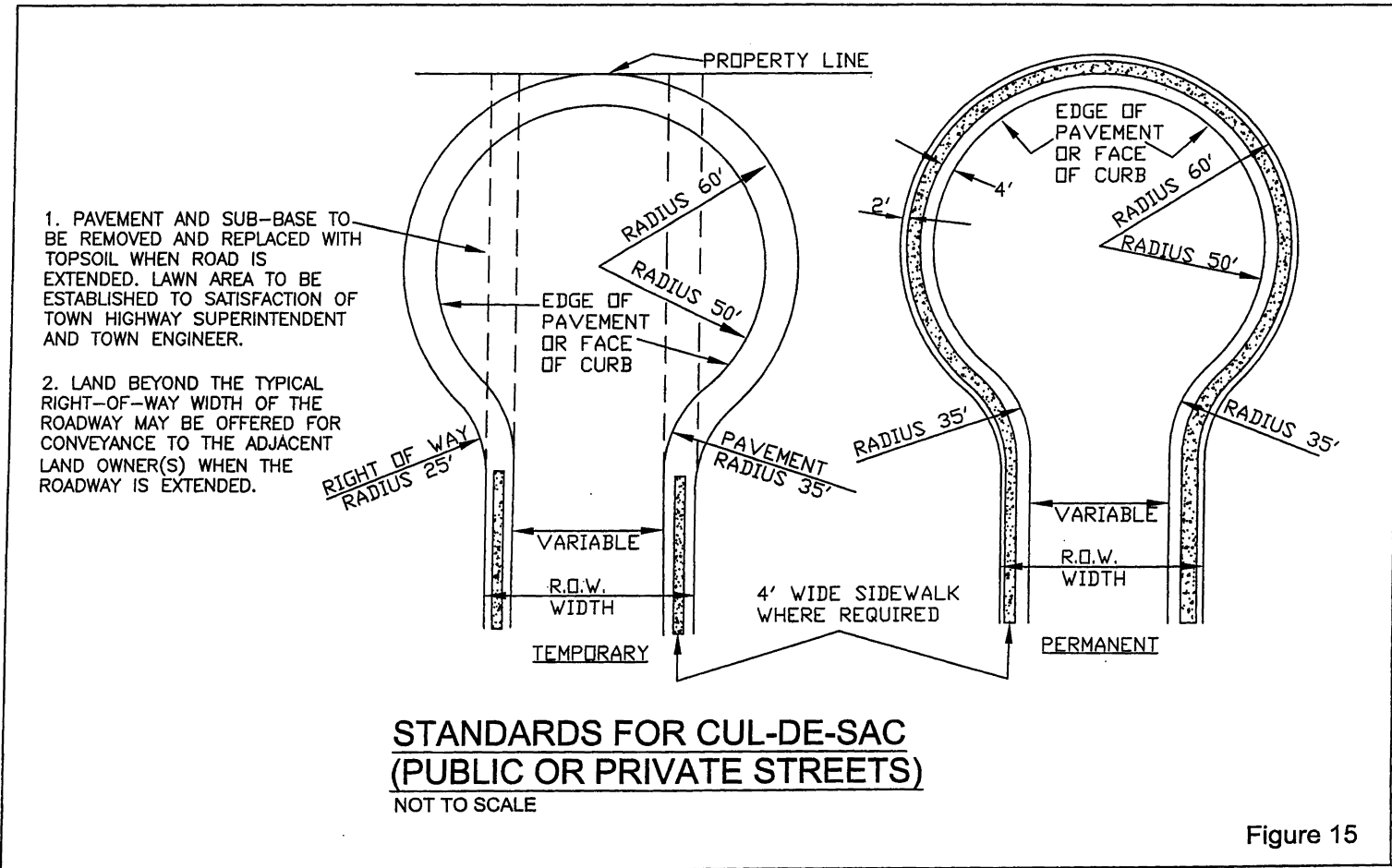


Figure 15

Figure 16

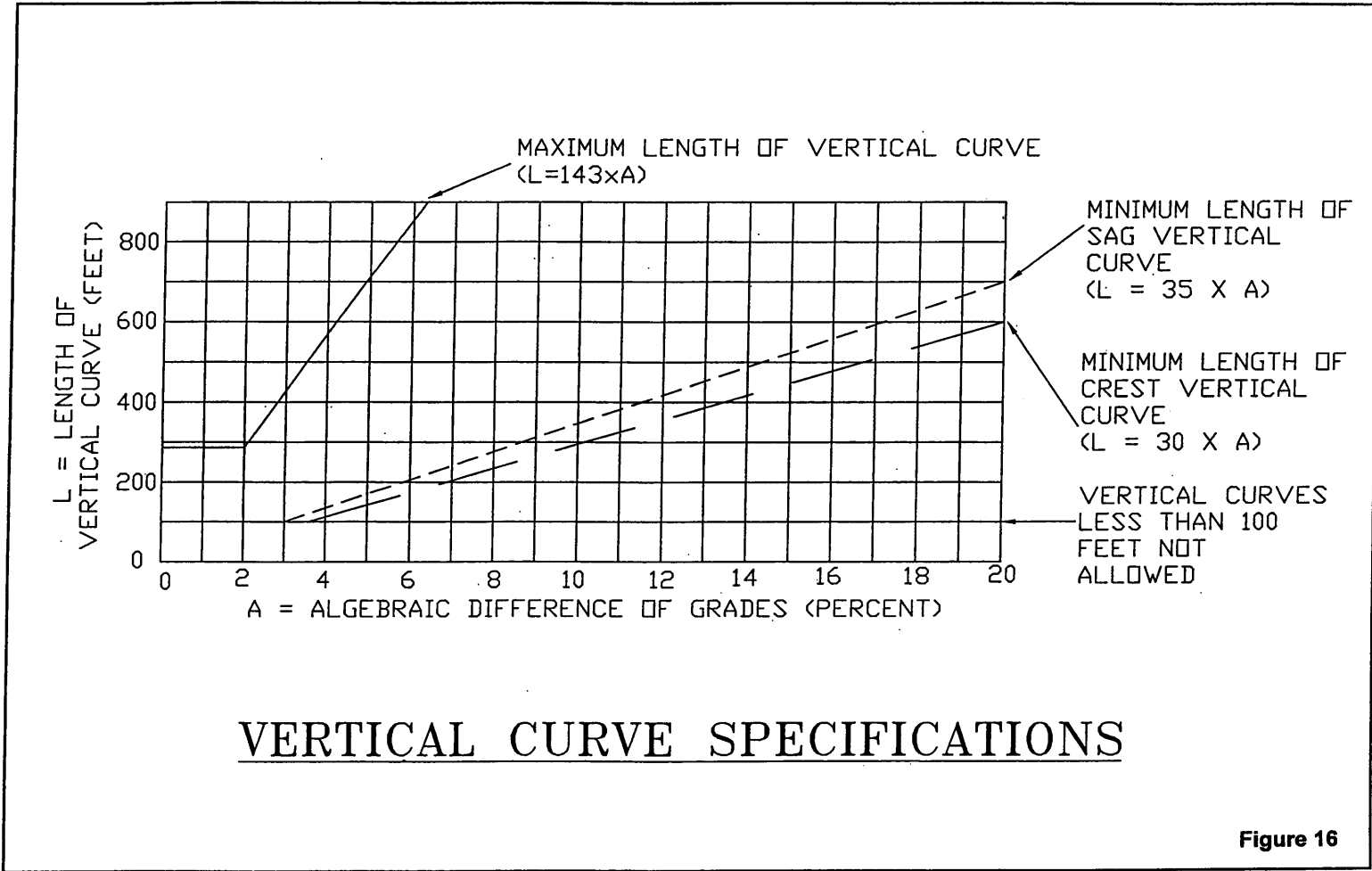
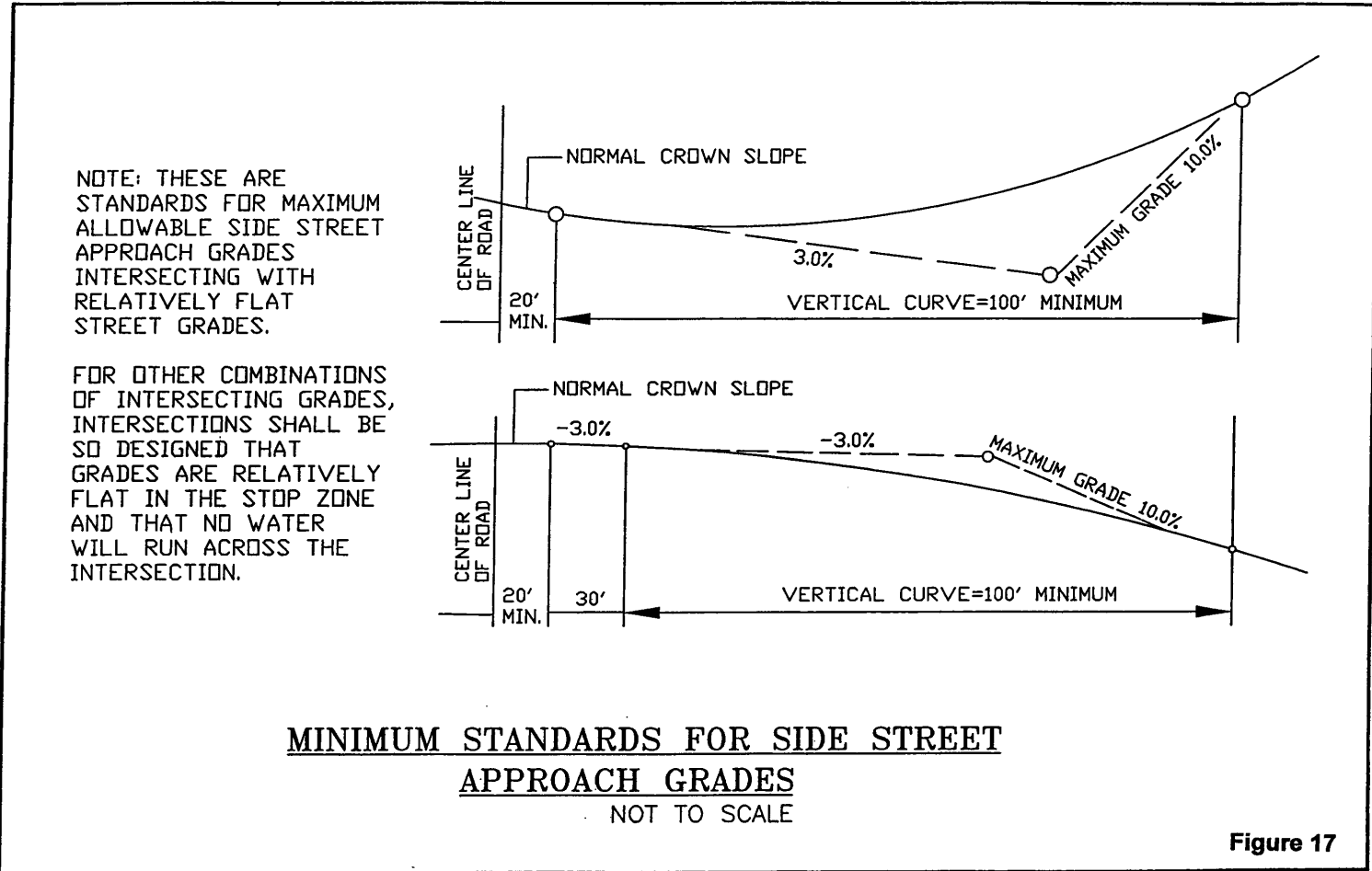


Figure 16

Figure 17



STREET SPECIFICATIONS

Figure 18

GUIDE RAILING NOTES

NOTES:

1. ALL MATERIALS SHALL CONFORM TO NEW YORK STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS No. 710-20, "CORRUGATED BEAM GUIDE RAIL AND MEDIAN BARRIER".
2. RAIL INSTALLATION SHALL NOT BE TERMINATED WITHIN 50 FEET OF A STATE ROAD OR COUNTY ROAD, EXCEPT AT STRUCTURES OR ANCHORAGE UNITS. AT EACH ANCHORAGE UNIT THE CONCRETE ANCHOR SHALL BE SELECTED TO FIT THE ACTUAL TOPOGRAPHY.
3. THE TOP OF THE RAIL SHALL BE 32 INCHES ABOVE THE GROUND, EXCEPT AT ANCHORAGE UNITS.
4. MAXIMUM POST SPACING SHALL BE IN ACCORDANCE WITH THE TABLE BELOW.
5. REFER TO MOST CURRENT VERSION OF NYSDOT W-BEAM (MOD.) GUIDE RAILING COMPONENTS FOR ALL DIMENSIONS AND SPECIFICATIONS.

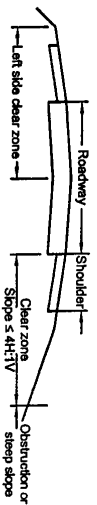
POST SPACING TABLE

RADIUS OF CURVATURE	POST SPACING
MORE THAN 220'	12-6"
220' TO 111'	6-3"
111' TO 76'	4-2"
76' TO 50'	3-1/2"
LESS THAN 50'	USE NOT RECOMMENDED

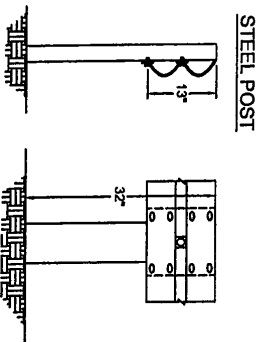
Desired clear zone width by road class

Road type	Desired clear zone width
Low volume road (ADT < 400 vehicles per day)	6.5 ft
Local road (ADT > 400 vehicles per day)	7 - 10 feet

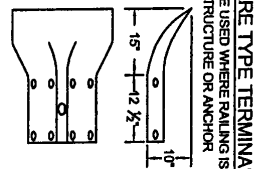
*ADT = Average Daily Traffic



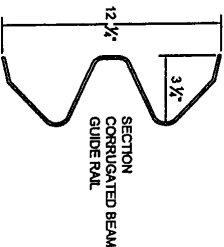
CORRUGATED BEAM GUIDE RAIL



STEEL POST



FLARE TYPE TERMINAL TO BE USED WHERE RAILING IS ATTACHED TO STRUCTURE OR ANCHOR



SECTION CORRUGATED BEAM GUIDE RAIL

TERMINAL SECTION WITH CONCRETE ANCHORE

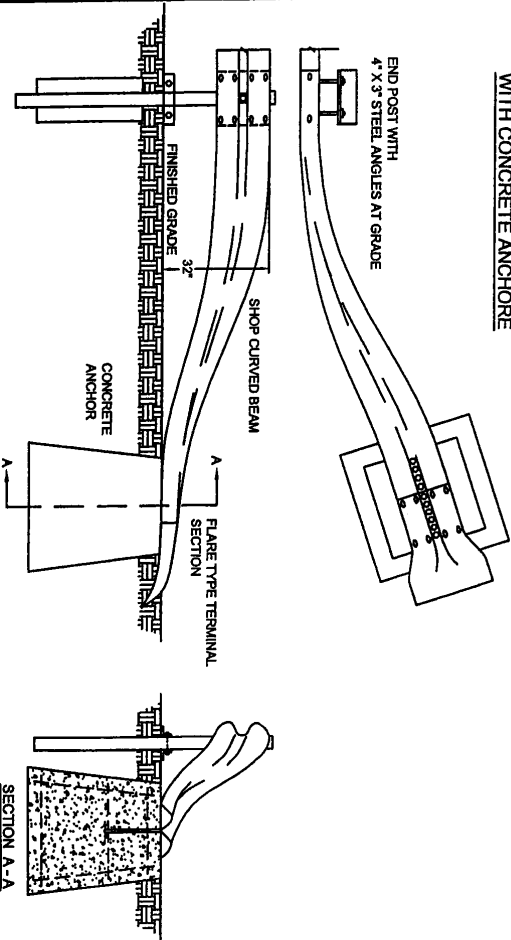


Figure 18