TABLE 27-24

ARCHULETA COUNTY

PRECIPITATION (INCHES/HOUR)

FOR THE PAGOSA SPRINGS AREA

107 DEGREES WEST, 37.25 DEGREES NORTH

Reference: Precipitation - Frequency Atlas of the United States, Volume III - Colorado (NOAA Atlas); National Oceanic and Atmospheric Administration (NOAA); 1973

	DURATION									
	5-MIN	10-MIN	15-MIN	30-MIN	1-HOUR	2-HOUR	3-HOUR	6-HOUR	12-HOUR	24-HOUR
FREQUENCY	5	10	15	30	60	120	180	360	720	1480
2-YEAR STORM	2.30	1.79	1.51	1.05	0.66	0.39	0.28	0.17	0.10	0.06
5-YEAR STORM	3.31	2.57	2.17	1.50	0.95	0.55	0.40	0.23	0.14	0.08
10-YEAR STORM	4.00	3.11	2.62	1.82	1.15	0.67	0.49	0.28	0.16	0.09
25-YEAR STORM	4.87	3.78	3.19	2.21	1.40	0.80	0.58	0.33	0.20	0.12
50-YEAR STORM	5.92	4.59	3.88	2.69	1.70	0.97	0.70	0.40	0.23	0.13
100-YEAR STORM	6.79	5.27	4.45	3.08	1.95	1.09	0.77	0.46	0.25	0.15

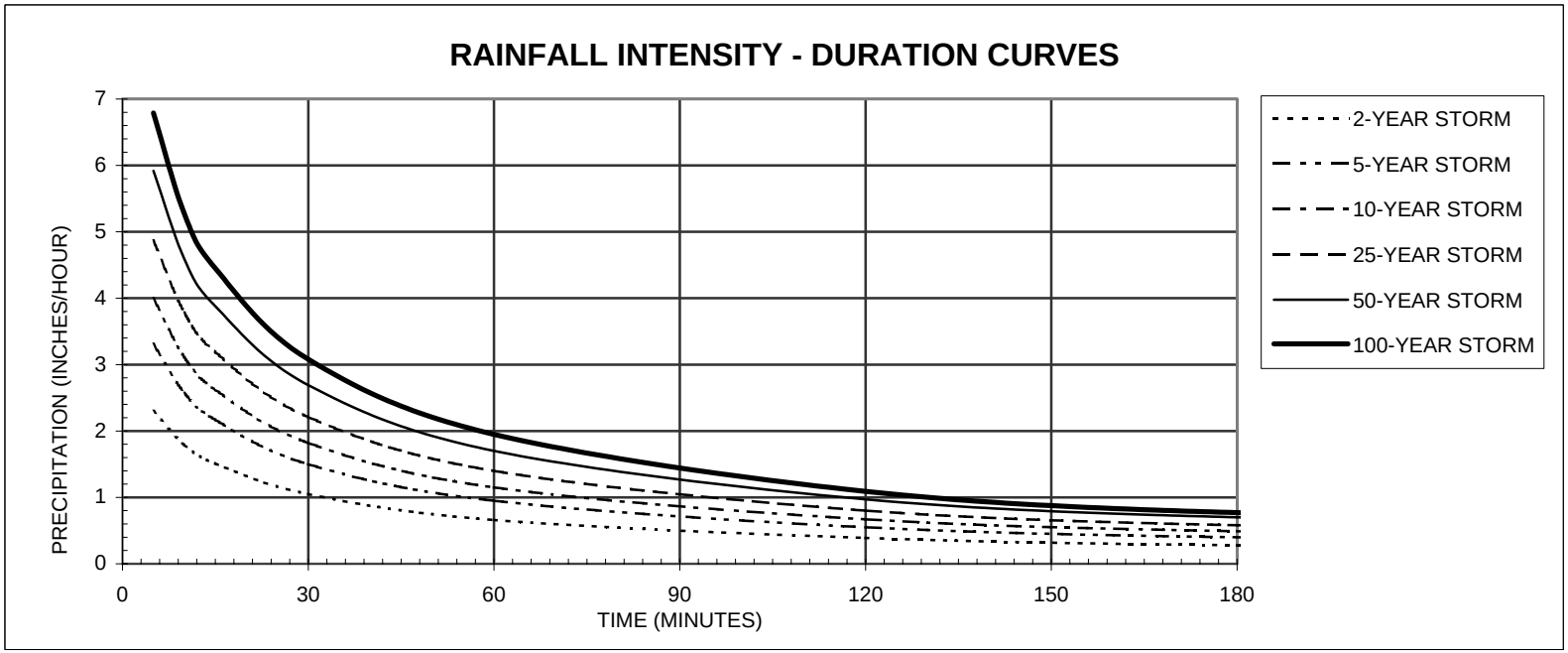


FIGURE 27-1

TYPICAL CROSS-SECTION OF FOUR LANE ARTERIAL STATUS ROAD

(Minimum Requirements)

MINIMUM RIGHT-OF-WAY 100 FEET

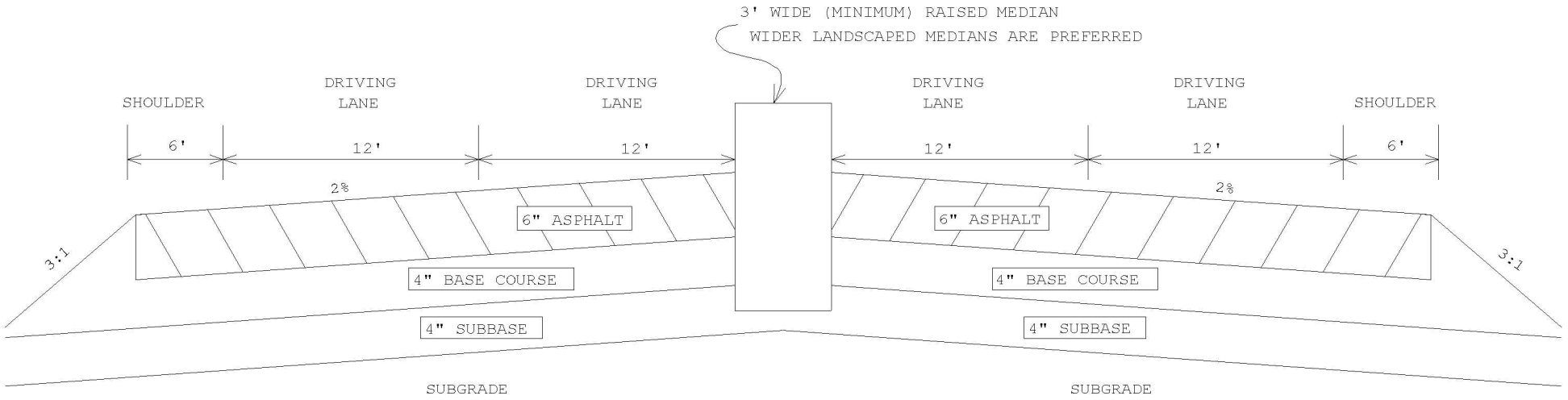


FIGURE 27-2

TYPICAL CROSS-SECTION OF A TWO LANE ARTERIAL STATUS ROAD

(Minimum Requirements)

MINIMUM RIGHT-OF-WAY 100 FEET

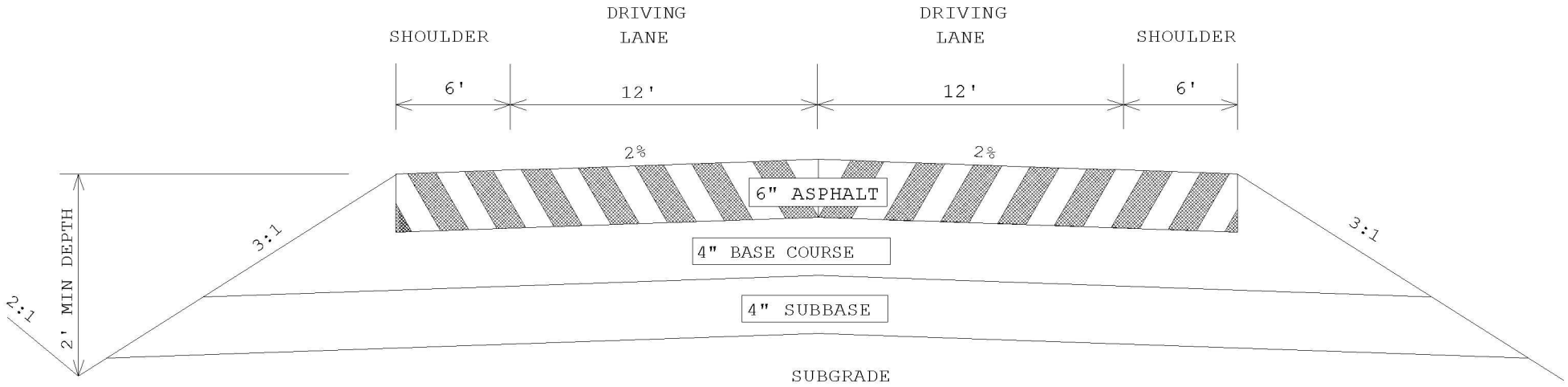


FIGURE 27-3

TYPICAL CROSS-SECTION OF A COLLECTOR STATUS ROAD

(Minimum Requirements)

MINIMUM RIGHT-OF-WAY 80 FEET

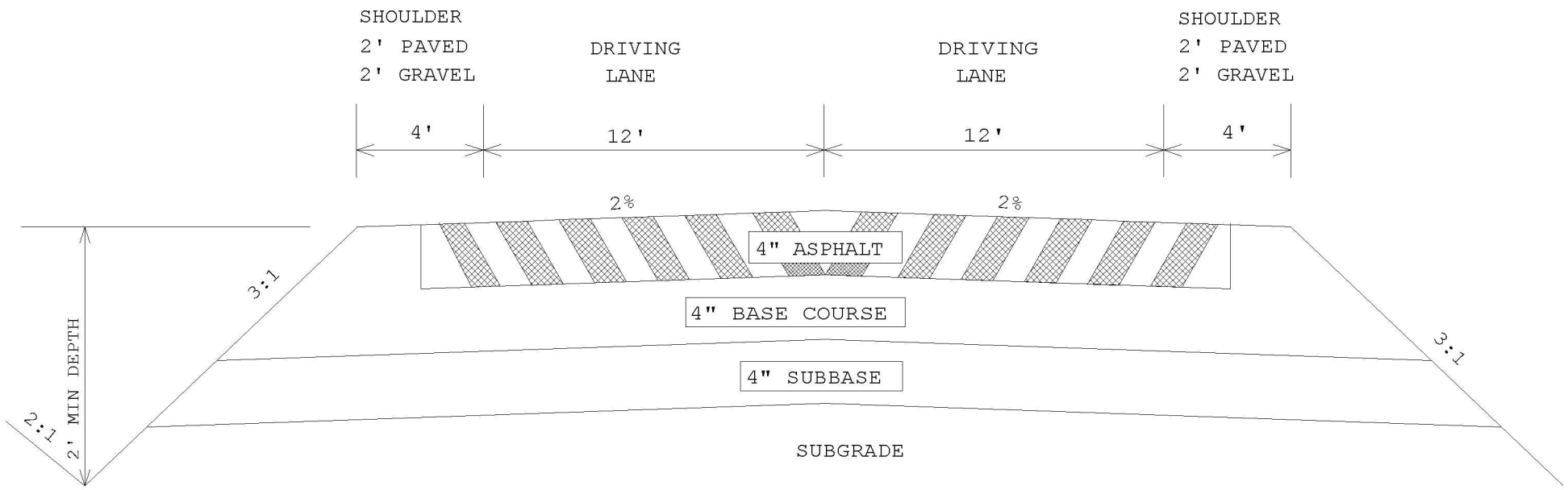


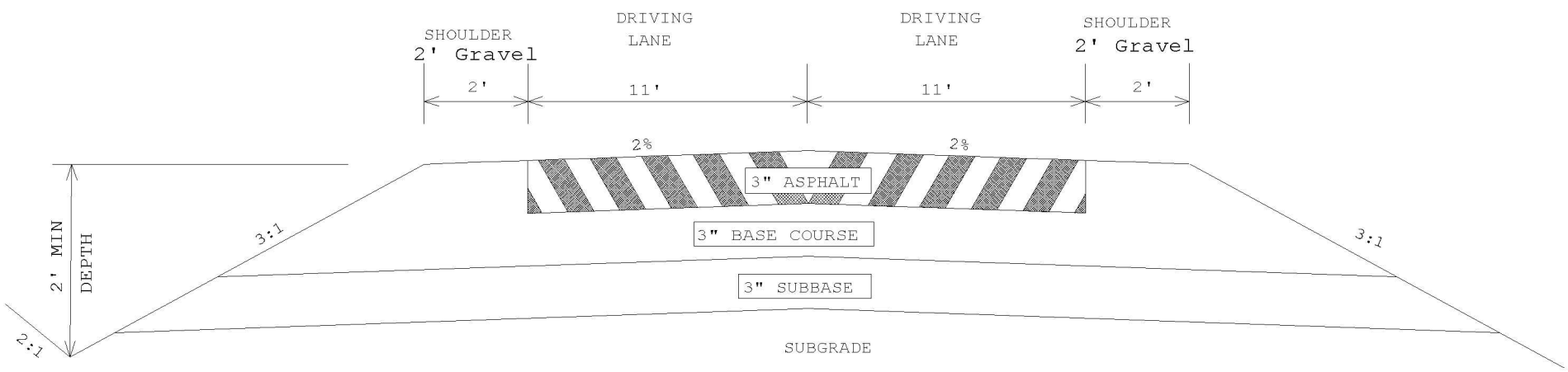
FIGURE 27-4

TYPICAL CROSS-SECTION FOR A LOCAL ACCESS STATUS ROAD

(Minimum Requirements)

MINIMUM RIGHT-OF-WAY 60 FEET

PAVED



GRAVEL

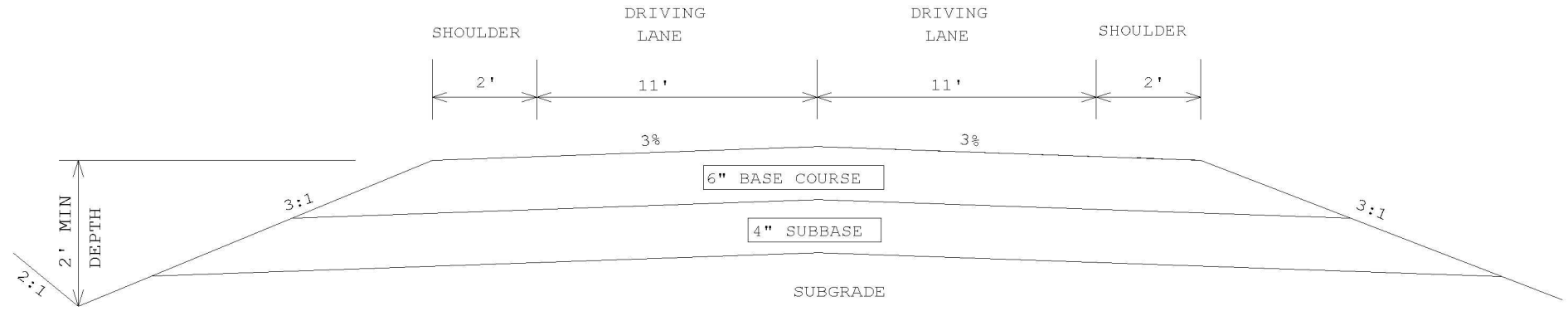


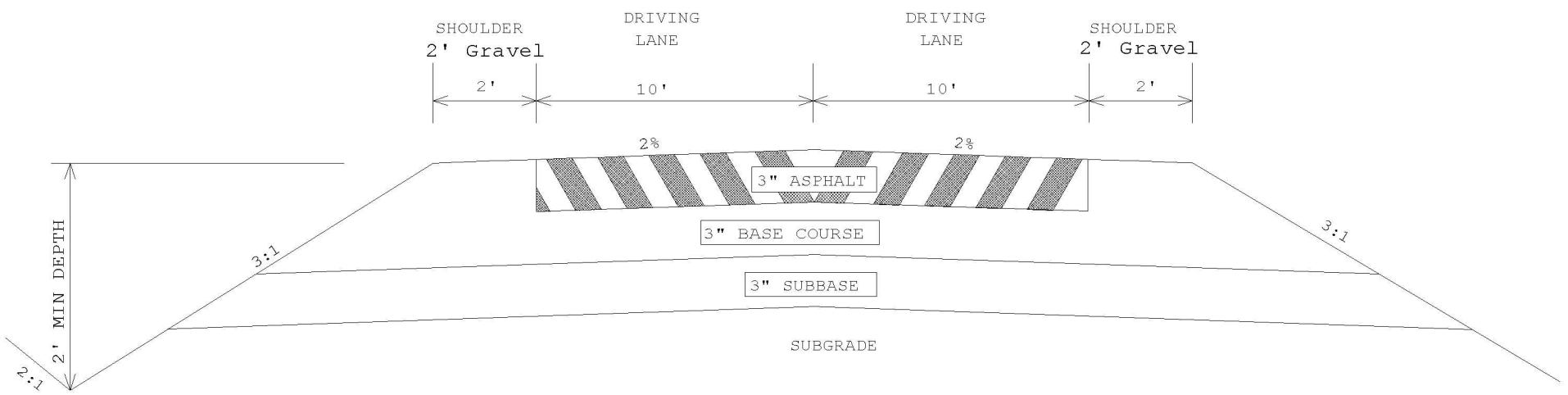
FIGURE 27-5

TYPICAL CROSS-SECTIONS FOR LOW VOLUME STATUS ROADS

(Minimum Requirements)

MINIMUM RIGHT-OF-WAY 50 FEET

PAVED



GRAVEL

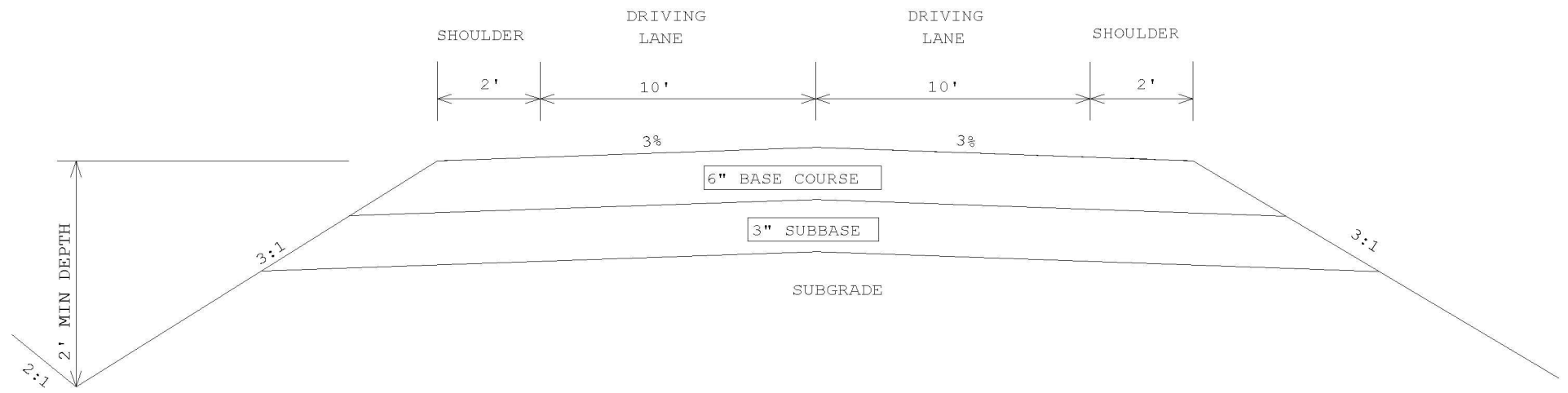


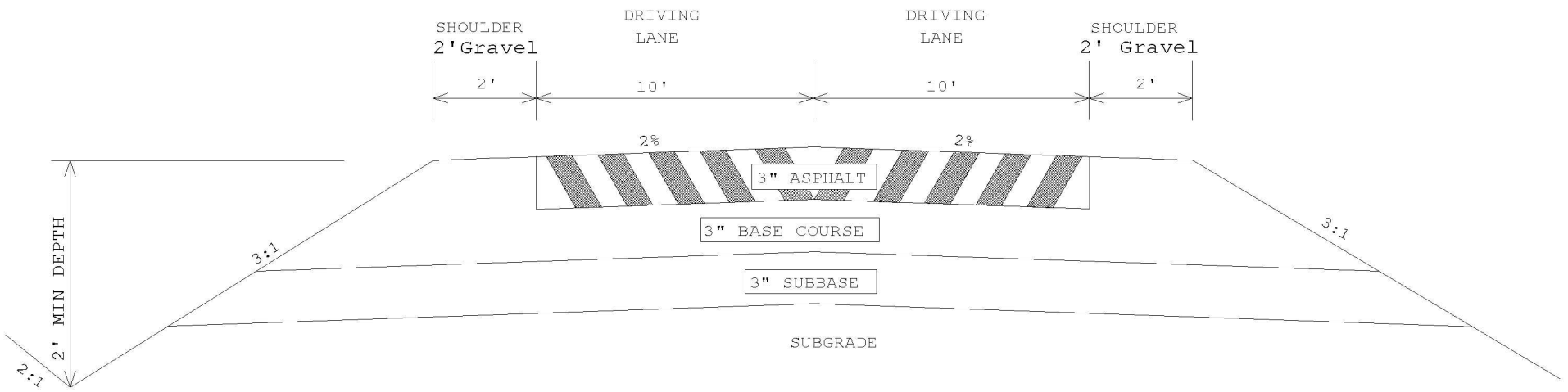
FIGURE 27-6

TYPICAL CROSS-SECTION FOR A PRIMITIVE STATUS ROAD

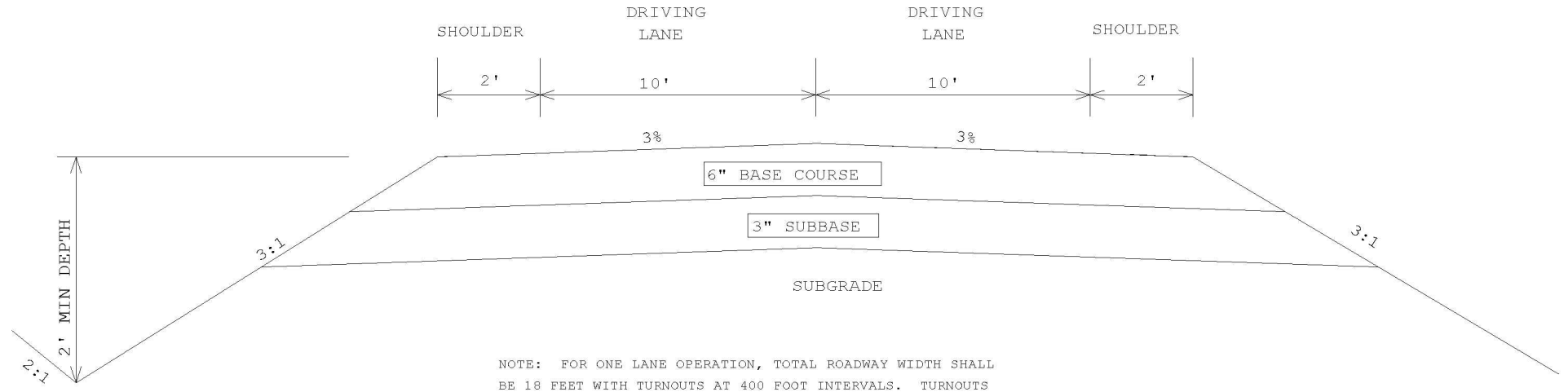
(Minimum Requirements)

MINIMUM RIGHT-OF-WAY 40 FEET

PAVED



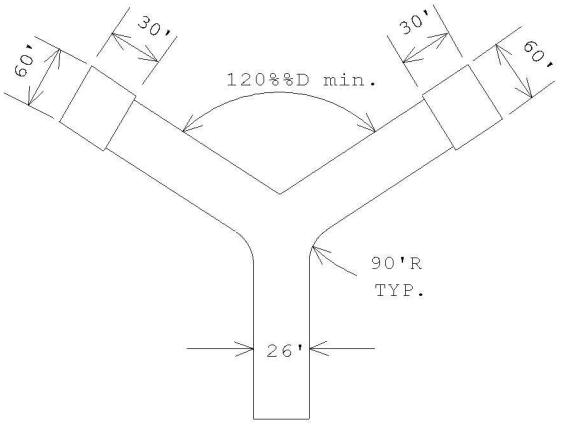
GRAVEL

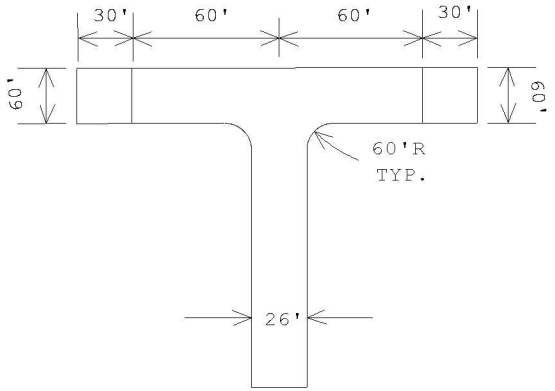


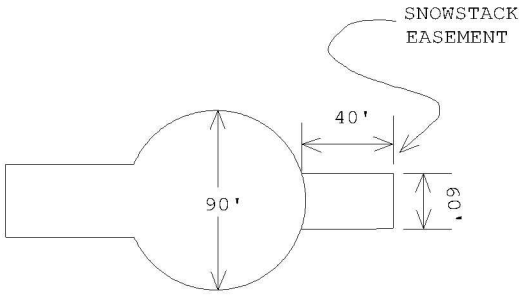
NOTE: FOR ONE LANE OPERATION, TOTAL ROADWAY WIDTH SHALL BE 18 FEET WITH TURNOUTS AT 400 FOOT INTERVALS. TURNOUTS SHALL BE AT LEAST 8 FEET WIDE AND 30 FEET LONG.

FIGURE 27-7

HAMMERHEAD AND CUL-DE-SAC DESIGNS







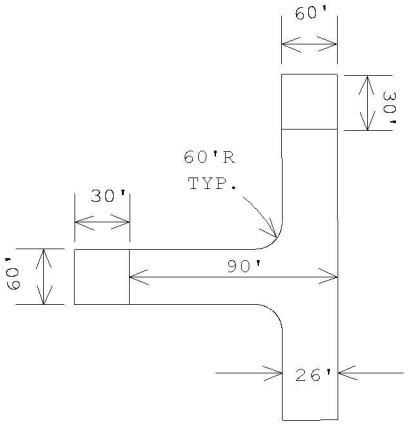


FIGURE 27-8

SIGHT DISTANCE TRIANGLE

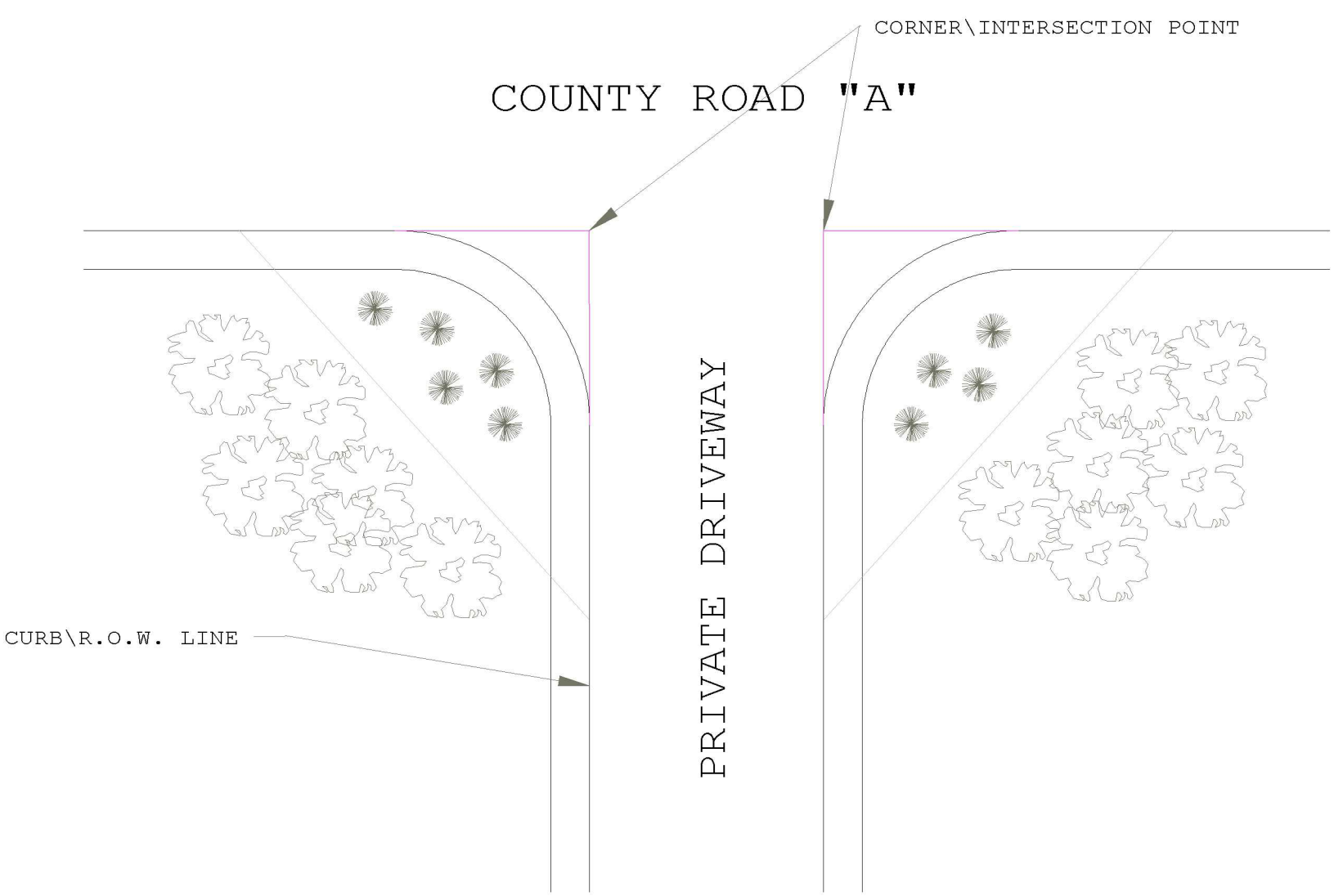


FIGURE 27-9

SIGHT DISTANCE TRIANGLE (RIGHT-OF-WAY VARIES)

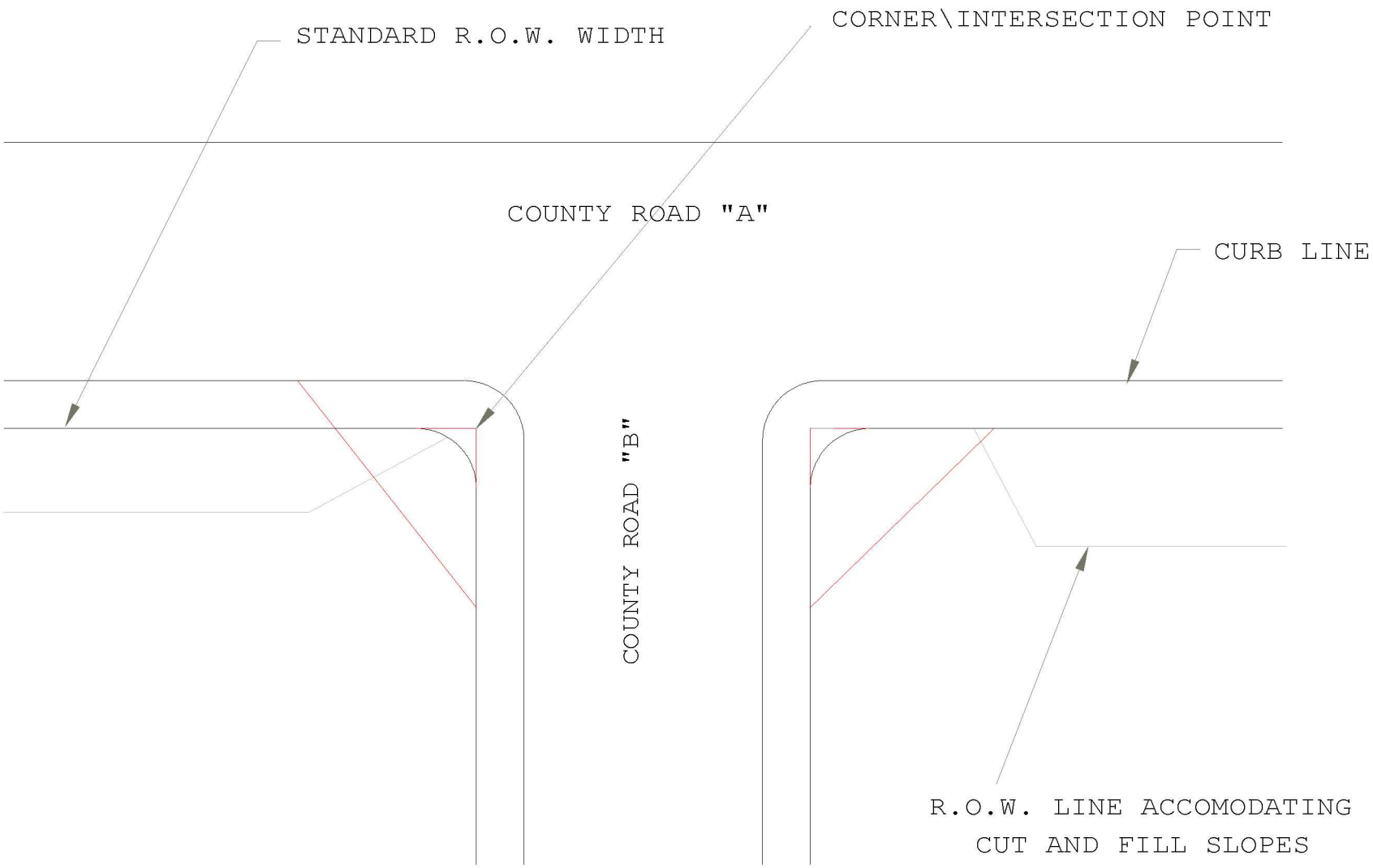


FIGURE 27-10

EXAMPLES OF TYPICAL SIGHT DISTANCE TRIANGLES

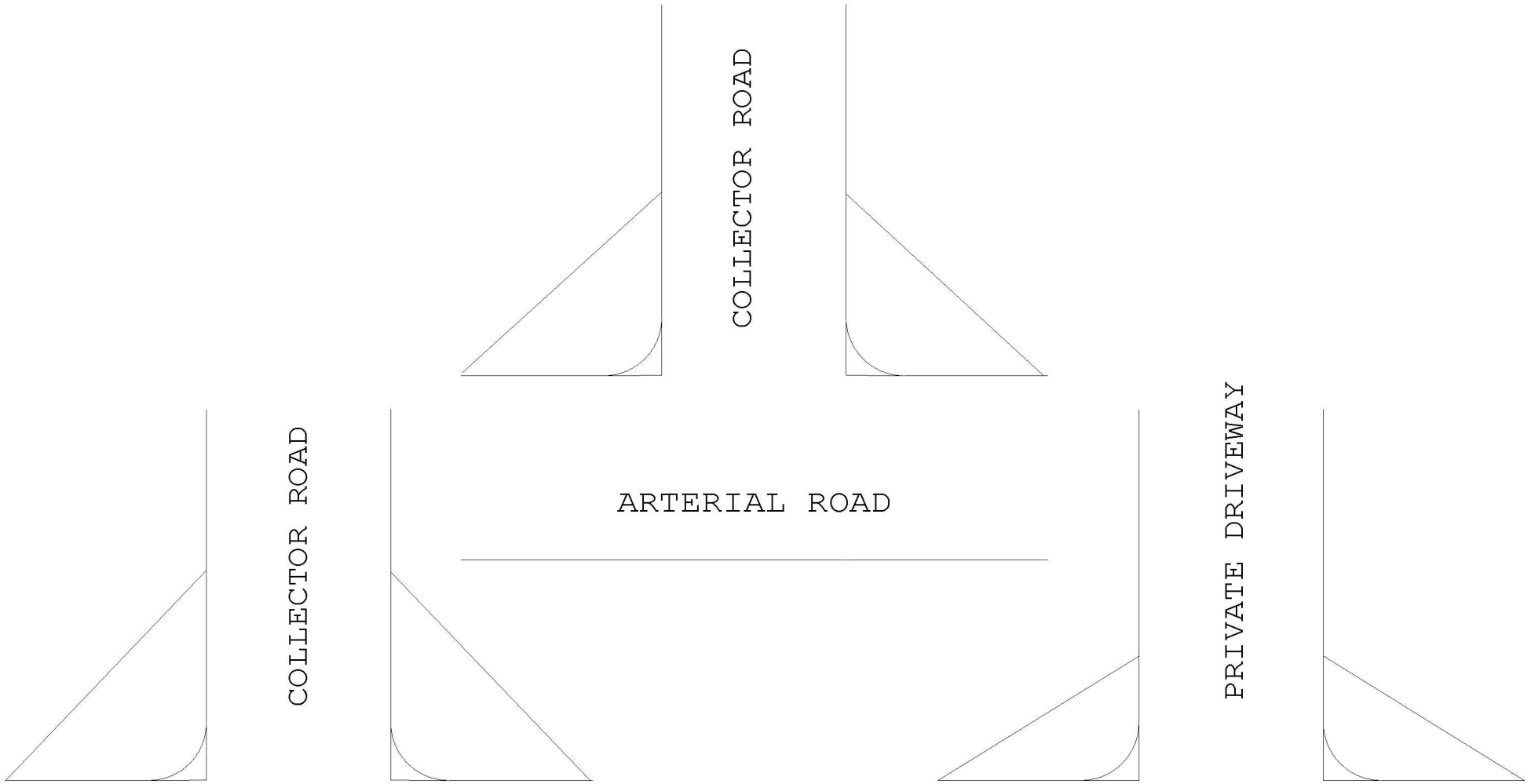


FIGURE 27-11

VISUAL CLEARANCE AREA

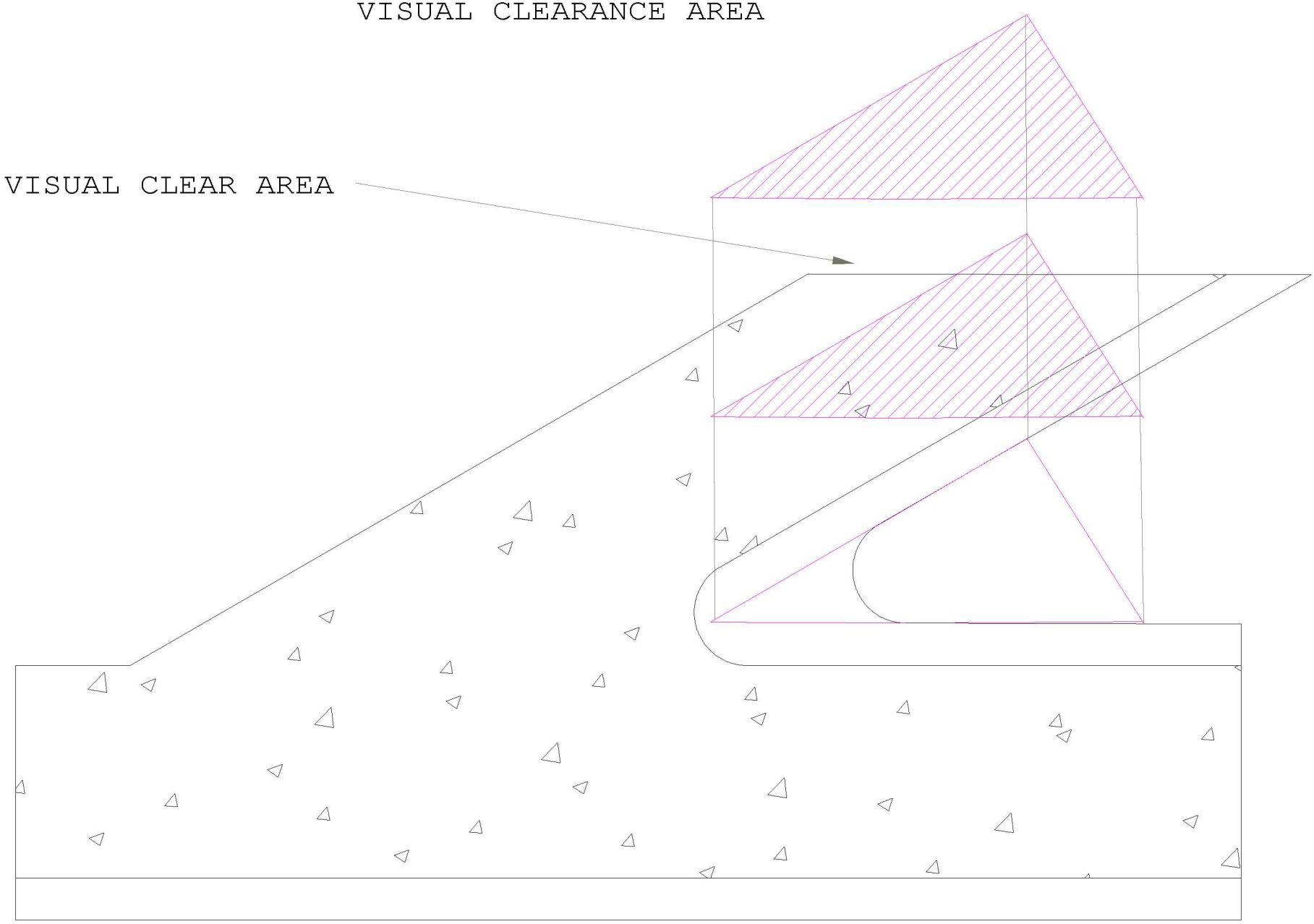


Figure 27-12

INDEMNIFICATION AGREEMENT

THIS AGREEMENT, made this ____ day of _____, 200_, between Archuleta County, Colorado, acting by and through its Board of County Commissioners, whose address is PO Box 1507, Pagosa Springs, CO 81147 hereinafter referred to as "Grantor") and _____ as owner of _____, Archuleta County, Colorado (hereinafter referred to as "Grantee").

In consideration of the granting of a _____, mutual promises and covenants herein made, the parties hereto agree as follows:

1. Grantee aggress to indemnify and hold Grantor, its agents, and employees harmless from all loss, cost, and damage incurred to the property located at _____.
2. Grantee agrees to indemnify and hold Grantor, its agents, and employees harmless from all loss, cost, damage, and claims for personal injuries or property damage arising from all maintenance, snow removal, and general use of _____ by Archuleta County and the public.
3. The terms of this Waiver Agreement shall be binding upon and insure to the benefit of both parties hereto, their respective heirs, executors, administrators, successors, and assigns.

IN WITNESS WHEREOF, the parties have executed this Indemnification Agreement as of the day and year first written above.

ATTEST:

_____
June Madrid, County Clerk

GRANTOR:
BOARD OF COUNTY COMMISSIONERS
ARCHULETA COUNTY, COLORADO

By: _____
Mamie Lynch, Chair

GRANTEE:

_____
Type grantee's name

FIGURE 27-13

DRIVEWAY\INTERSECTION SPACING

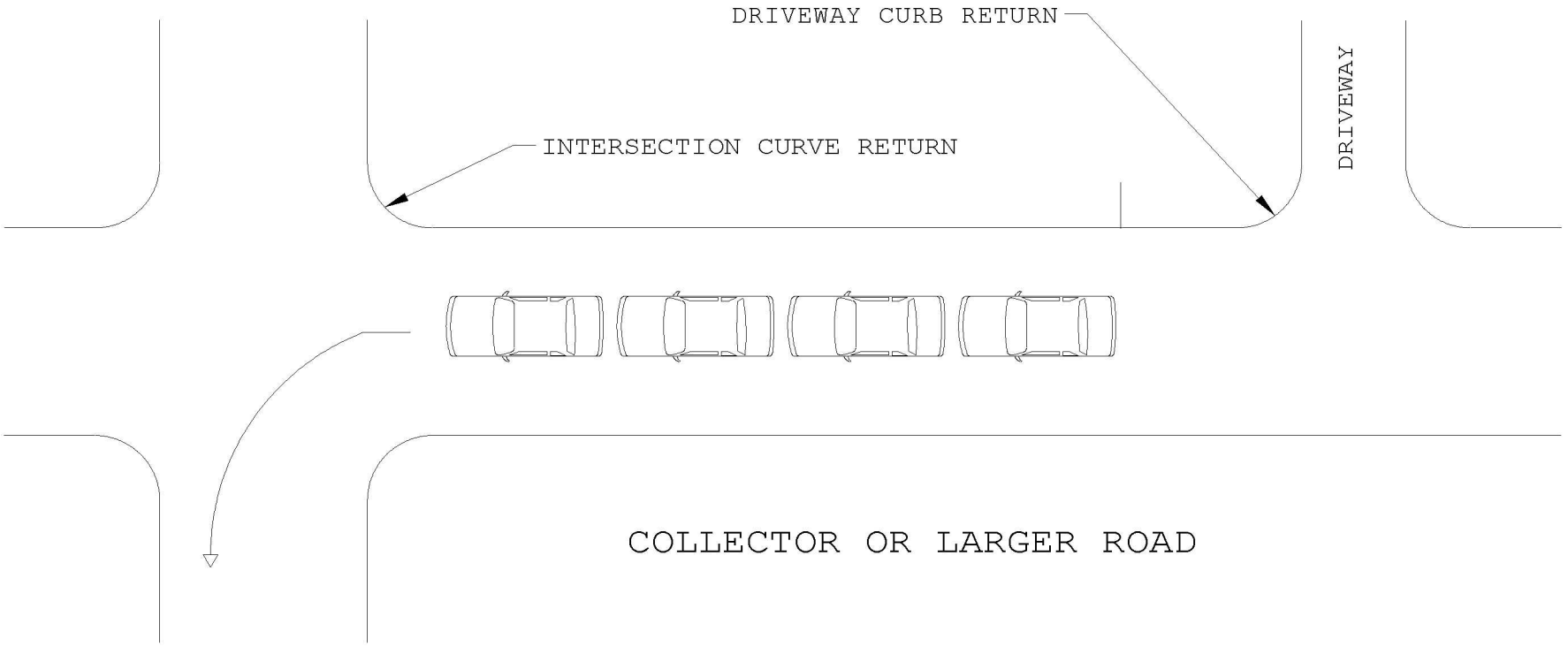
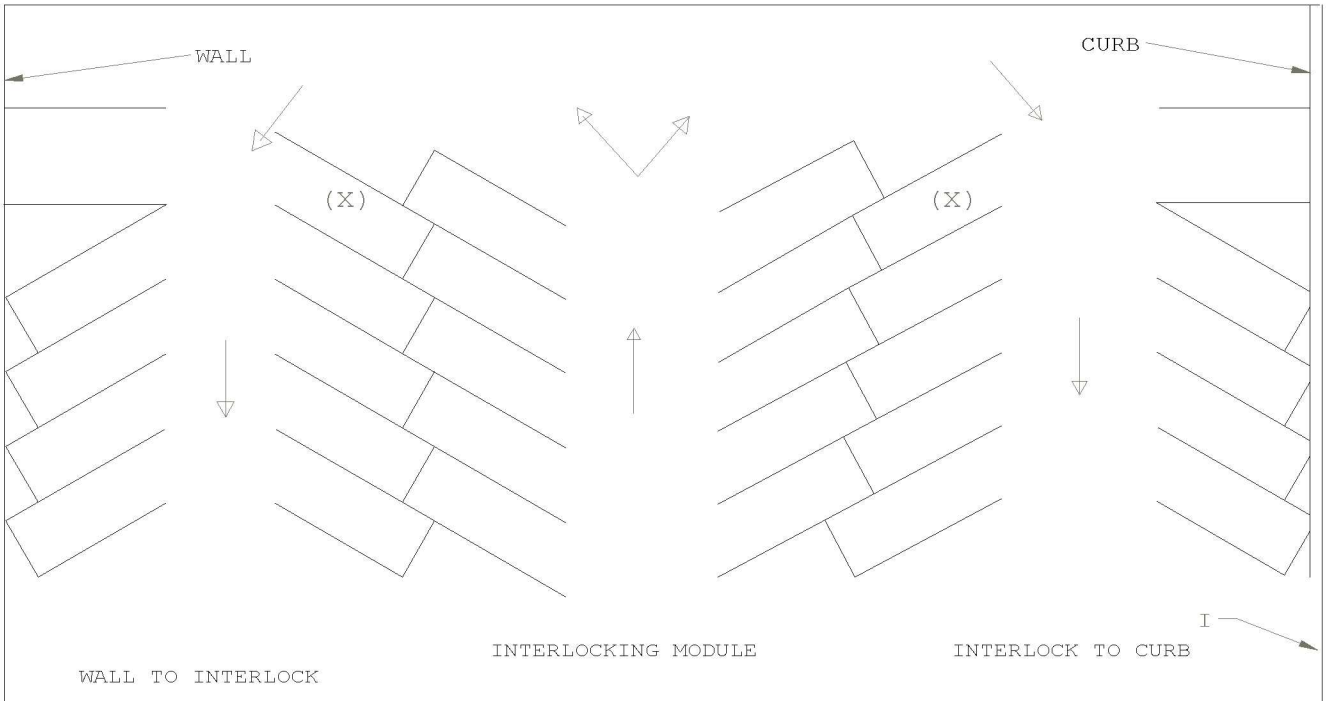


FIGURE 27-14

PARKING LAYOUT DIMENSIONS FOR 9 FT. X 18.5 FT STALLS AT VARIOUS ANGLES

PARKING DESIGNER TO CHECK FOR RECENT LEGISLATION FOR ADA STANDARDS FOR ACCESSIBLE DESIGN



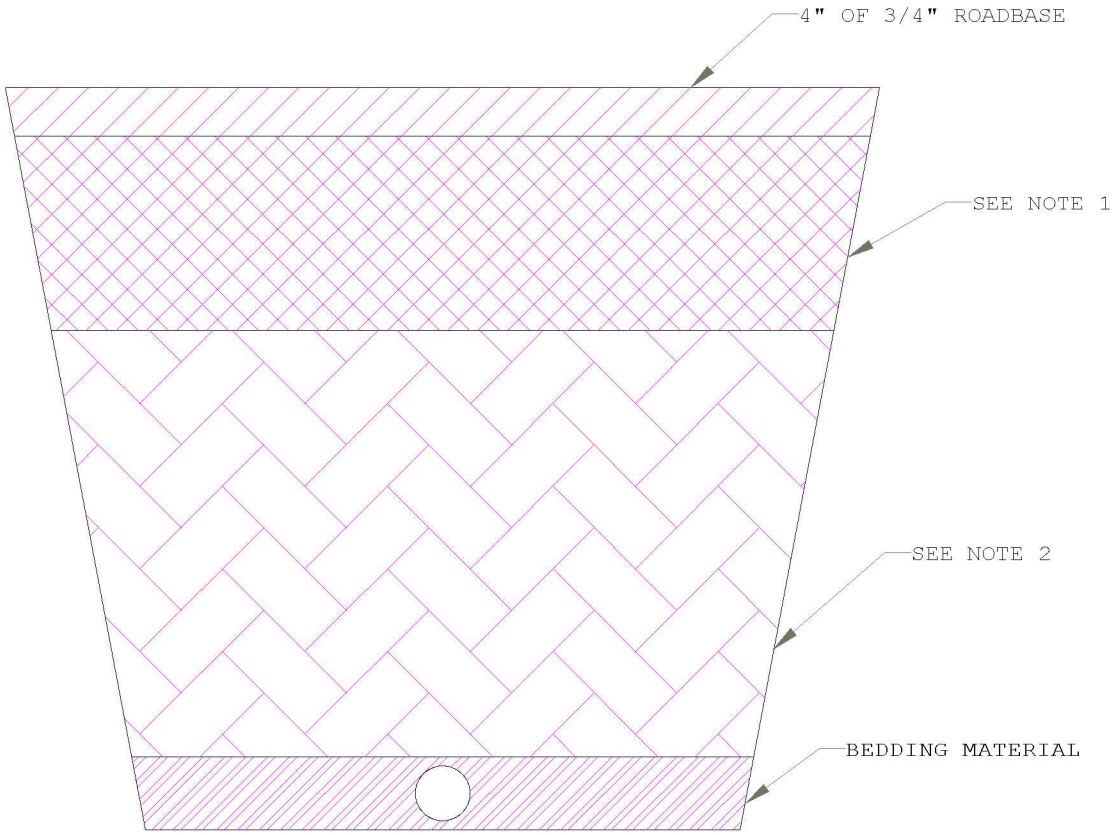
X = STALL NOT ACCESSABLE IN CERTAIN LAYOUTS

DIMENSION	ON DIAGRAM	ANGLE			
		45°	60°	75°	90°
Stall Width, parallel to aisle	A	12.7	10.4	9.3	9.0
Stall length of line	B	25.0	22.0	20.0	18.5
Stall depth to wall	C	17.5	19.0	19.5	18.5
Aisle width between stall lines	D	12.0	16.0	23.0	26.0
Stall depth, interlock	E	15.3	17.5	18.8	18.5
Module, wall to interlock	F	44.8	52.5	61.3	63.0
Module, interlocking	G	42.6	51.0	61.0	63.0
Module, interlock to curb face	H	42.8	50.2	58.8	60.5
Bumper overhang (typical)	I	2.0	2.3	2.5	2.5
offset	J	6.3	2.7	0.5	0.0
Setback	K	11.0	8.3	5.0	0.0
Cross aisle, one way	L	14.0	14.0	14.0	14.0
Cross aisle, two way	L	24.0	24.0	24.0	24.0

FIGURE 27-15

MINIMUM REQUIREMENTS FOR ROAD-CUT BACKFILL

-- GRAVEL ROADS --



NOTE: IF EXCAVATED DEPTH OF TRENCH IS LESS THAN 36" THEN
3/4" ROAD BASE MAY BE SUBSTITUTED IN ZONE "B"

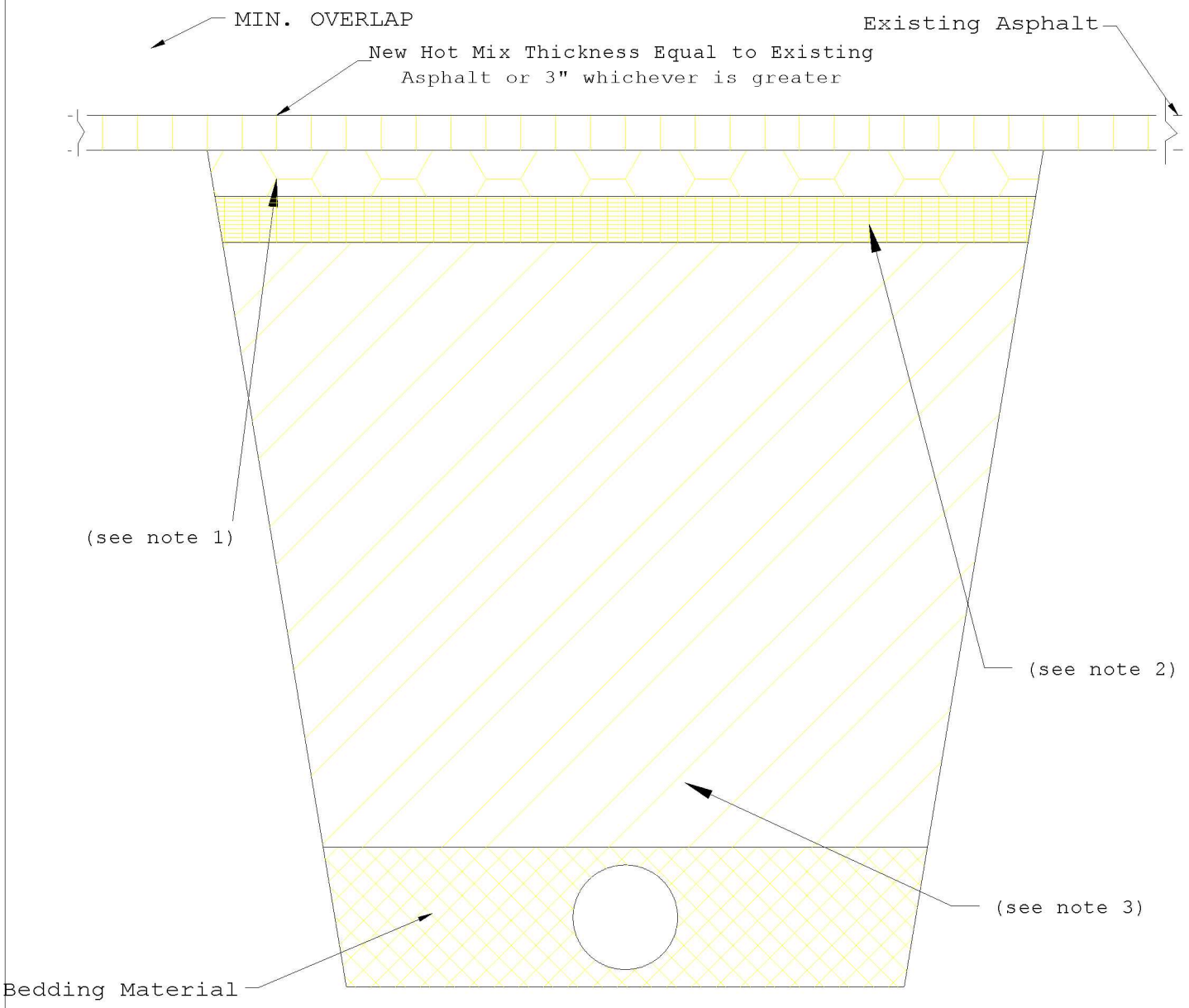
NOTE 1: 24" DEEP 1 1/2" CRUSHED ROCK OR 1 1/2" ROAD BASE
COMPACTED IN 1.0' LIFTS TO 95% MODIFIED PROCTOR

NOTE 2: NATIVE EXCAVATED MATERIAL IF APPROVED BY INSPECTOR
COMPACT IN 1.0' LIFTS TO 90% MODIFIED PROCTOR
FLOWABLE CONCRETE BACKFILL IS AN ACCEPTABLE ALTERNATIVE FOR EMERGENCY REPAIRS

FIGURE 27-16

MINIMUM REQUIREMENTS FOR ROAD-CUT BACKFILL

ASPHALT ROADS



COMPACT ALL MATERIALS IN MAXIMUM 1.0' LIFTS TO 90% MODIFIED PROCTOR

Note 1 - 4" of 3\4" Road Base

Note 2 - 4" of 1 1\2" Road Base

Note 3 - Dredge Rock or Bank Run Material
Having a size Range of 8" max and less than
10% minus 200

Flowable Concrete Backfill is an Acceptable Alternative for Emergency Repairs

FIGURE 27-17

ACCEPTABLE CULVERT BEDDING MATERIAL

BACKFILL - EXCAVATED MATERIAL

COVER MATERIAL - BANK RUN SAND OR CRUSHED BANK RUN GRAVEL CONFORMING TO THE FOLLOWING REQUIREMENTS:

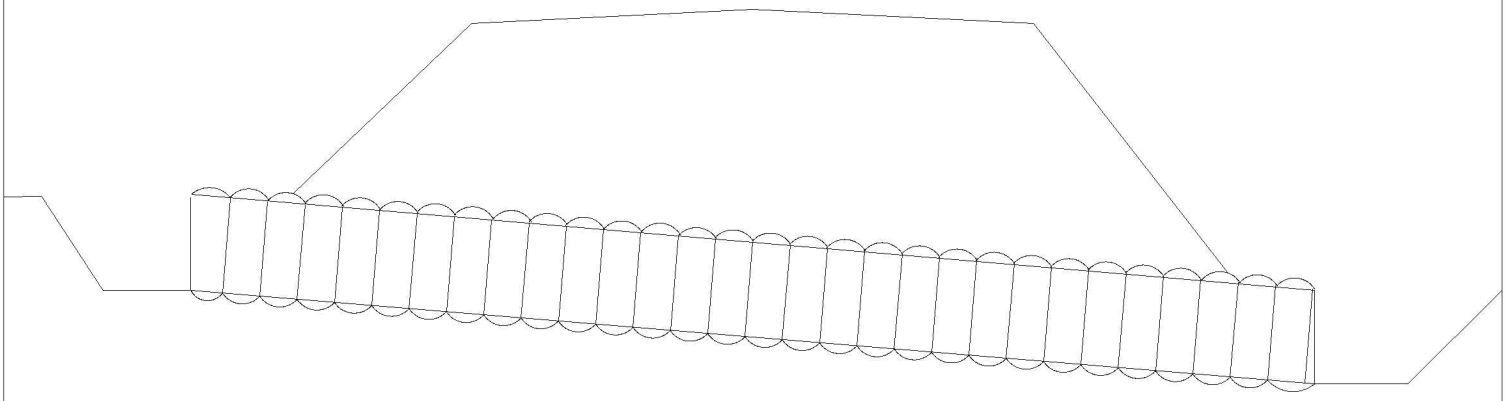
SIEVE SIZE	%PASSING
3"	100
3\4"	85-100
NO. 4	15-35
NO. 200	2-10

FLOWABLE CONCRETE BACKFILL IS AN ACCEPTABLE ALTERNATIVE FOR EMERGENCY REPAIRS

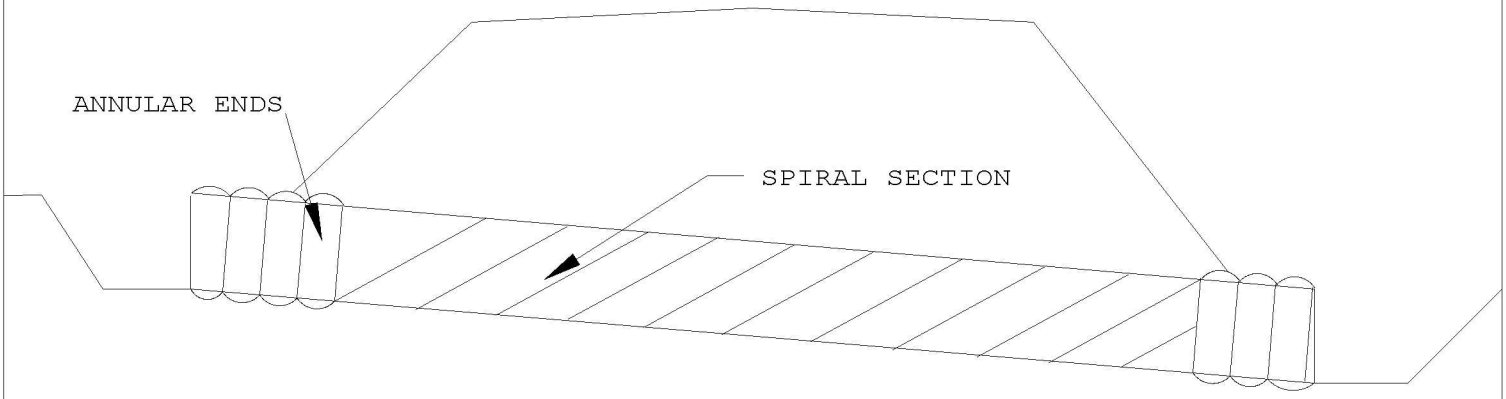
BEDDING MATERIAL - CRUSHED ROCK (MINIMUM 3\4")

FIGURE 27-18

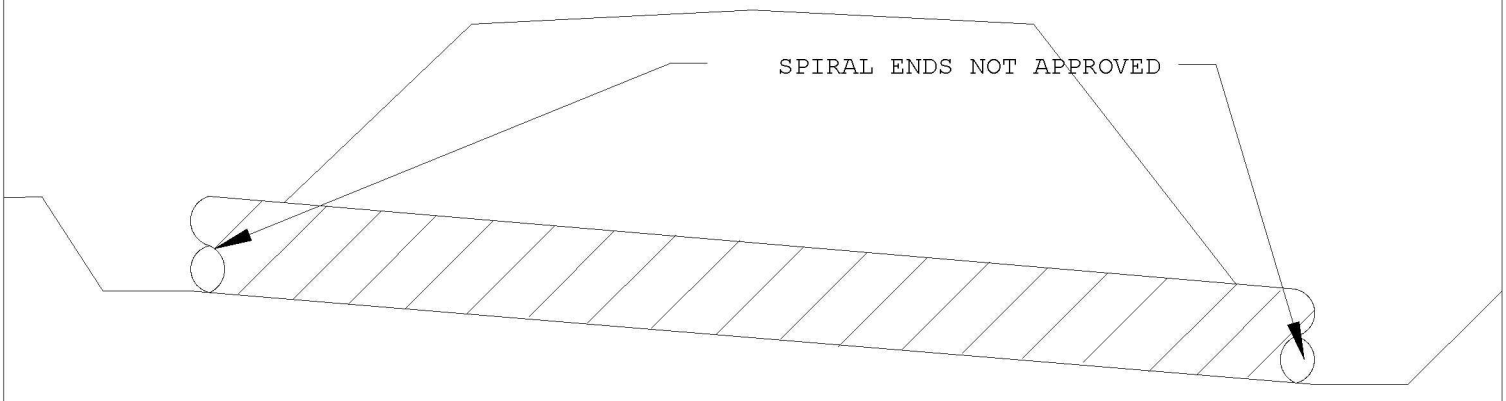
EXAMPLES OF TYPICAL CULVERT APPLICATION



ACCEPTABLE ANNULAR CULVERT



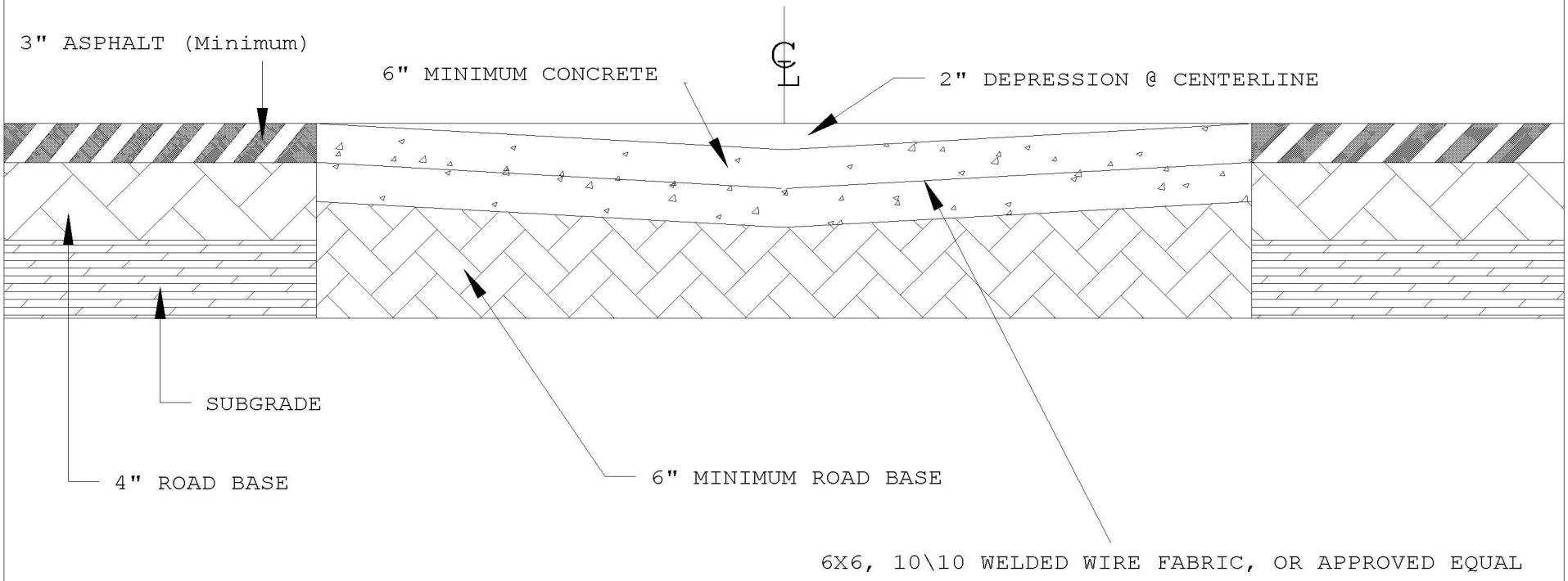
ACCEPTABLE SPIRAL CULVERT WITH ANNULAR ENDS

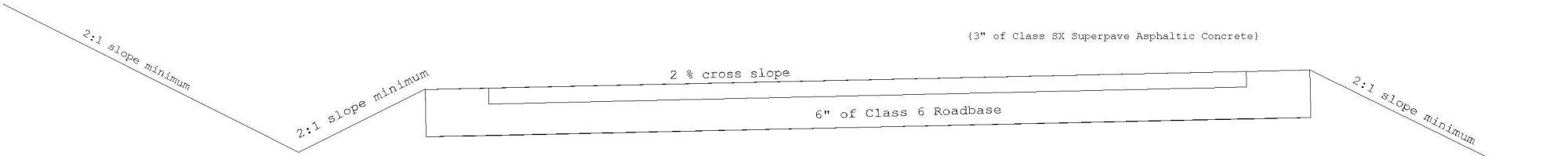


UNACCEPTABLE SPIRAL CULVERT

FIGURE 27-19

TYPICAL DRAINAGE PAN DETAIL




2:1 slope minimum
2:1 slope minimum
{3" of Class SX Superpave Asphaltic Concrete}
2 % cross slope
6" of Class 6 Roadbase
2:1 slope minimum

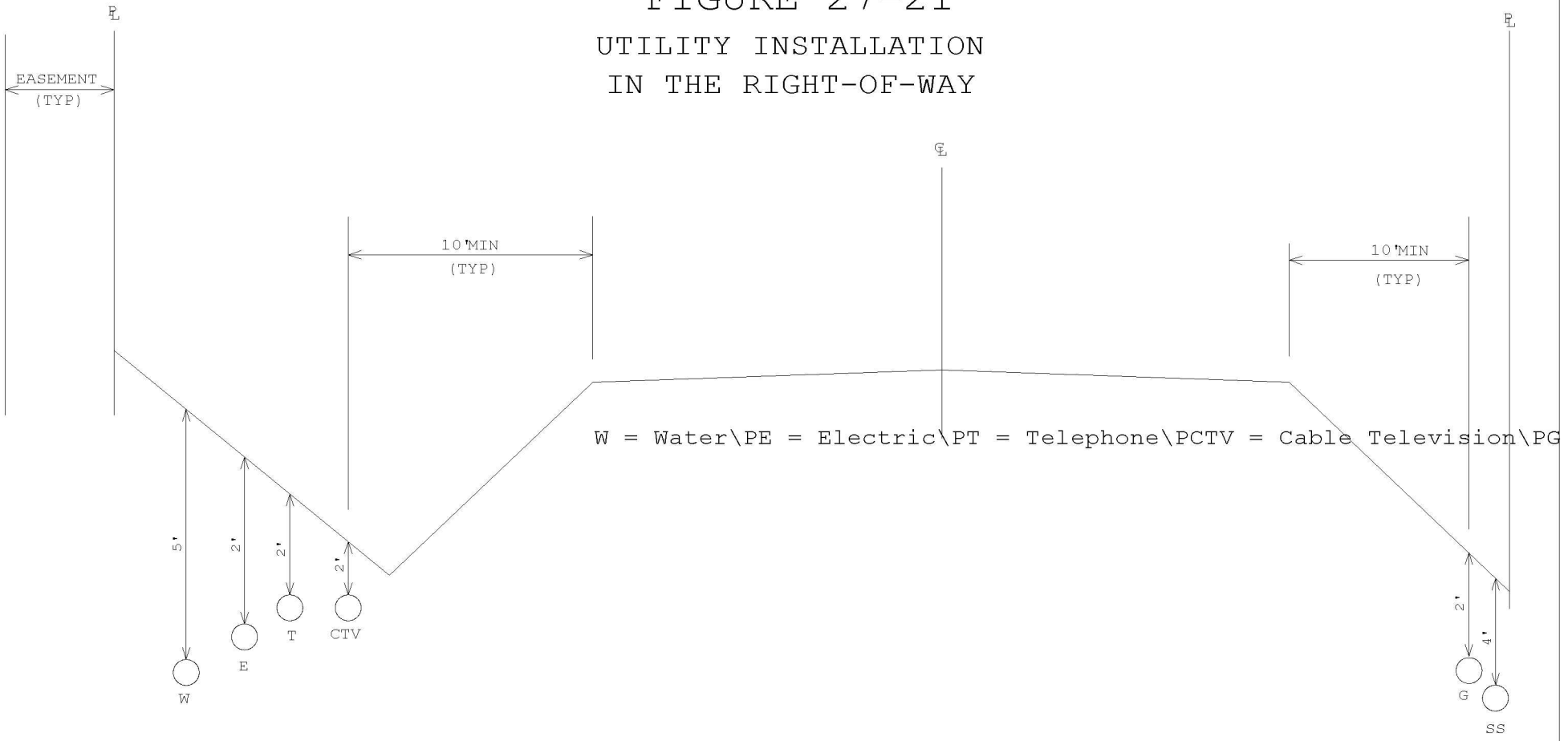
Not To Scale


LIGHT_7


LIGHT_5

FIGURE 27-21

UTILITY INSTALLATION
IN THE RIGHT-OF-WAY



NOTES:\P1. For utilities inside easements, the same minimum horizontal and vertical depth of bury shall be