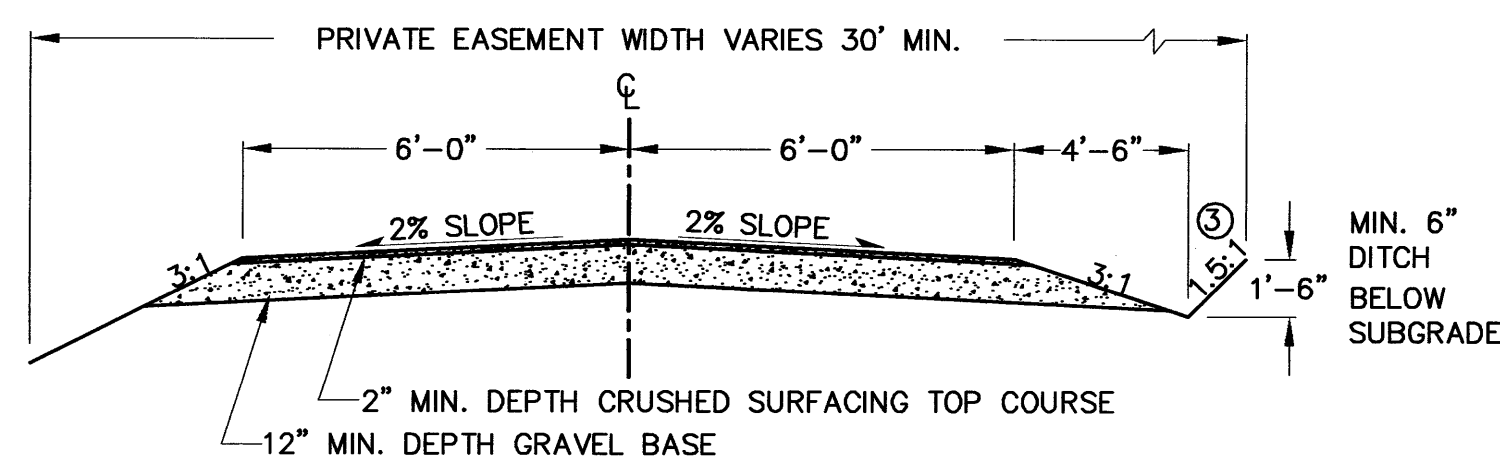


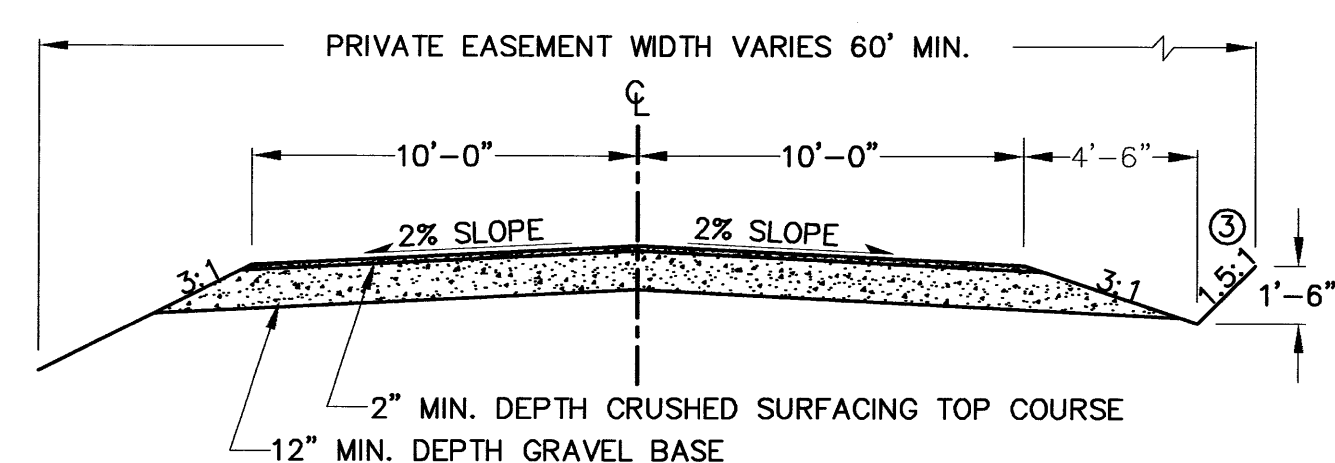
GRAYS HARBOR COUNTY MINIMUM ROAD STANDARDS

FOR SUBDIVISIONS & NEW DEVELOPMENT – MOBILE HOME, RV PARKS, & BINDING SITE PLANS

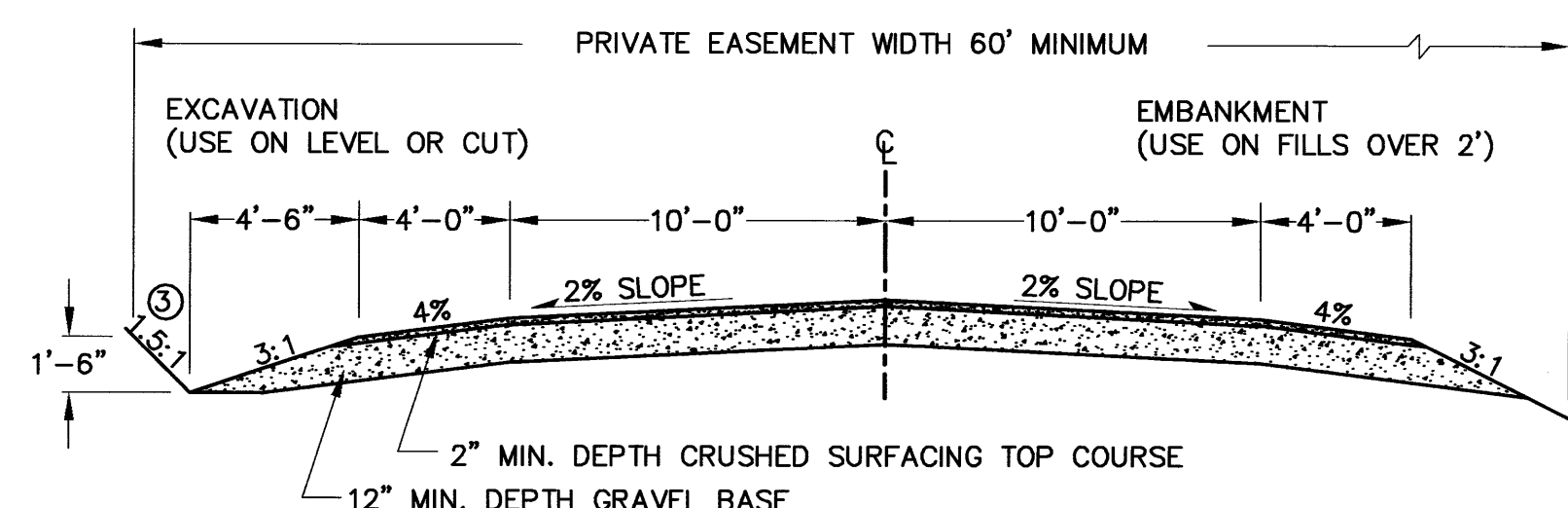
PRIVATE ROADS



PRIVATE ROADWAY SECTION A
TO BE USED ONE TO TWO LOTS



PRIVATE ROADWAY SECTION B



PRIVATE ROADWAY SECTION C

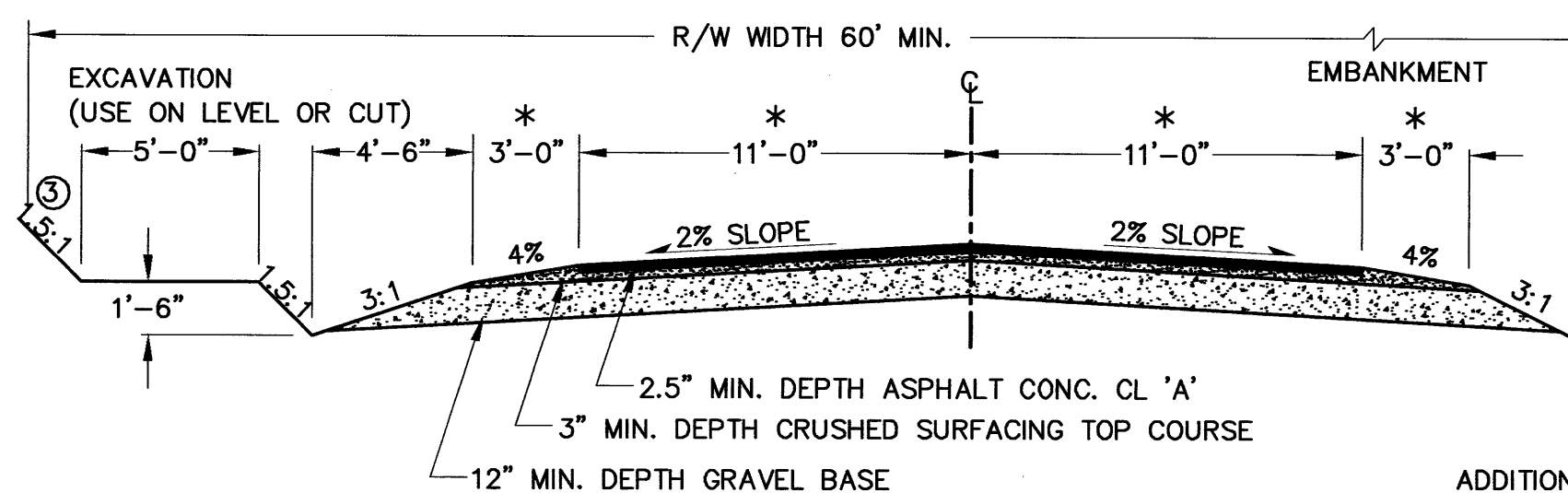
PRIVATE ROAD STANDARDS FOR RESIDENTIAL USE ONLY

PARCELS SERVED ⑤	MIN. EASEMENT WIDTH	ROADWAY SECTION	MAX. GRADE	MIN. SIGHT DISTANCE	MIN. DESIGN SPEED	STRUCTURAL CAPACITY	CUL-DE-SAC ②	CURVATURE MINIMUM (RADIUS)
1-2	30'	A	14% ④	125'	20 MPH	HS-20	NO ①	100'
3-9	60'	B	14% ④	125'	20 MPH	HS-20	YES	100'
10-20	60'	C	12%	150'	25 MPH	HS-20	YES	150'
21-50	60'	C	12%	150'	25 MPH	HS-20	YES	200'

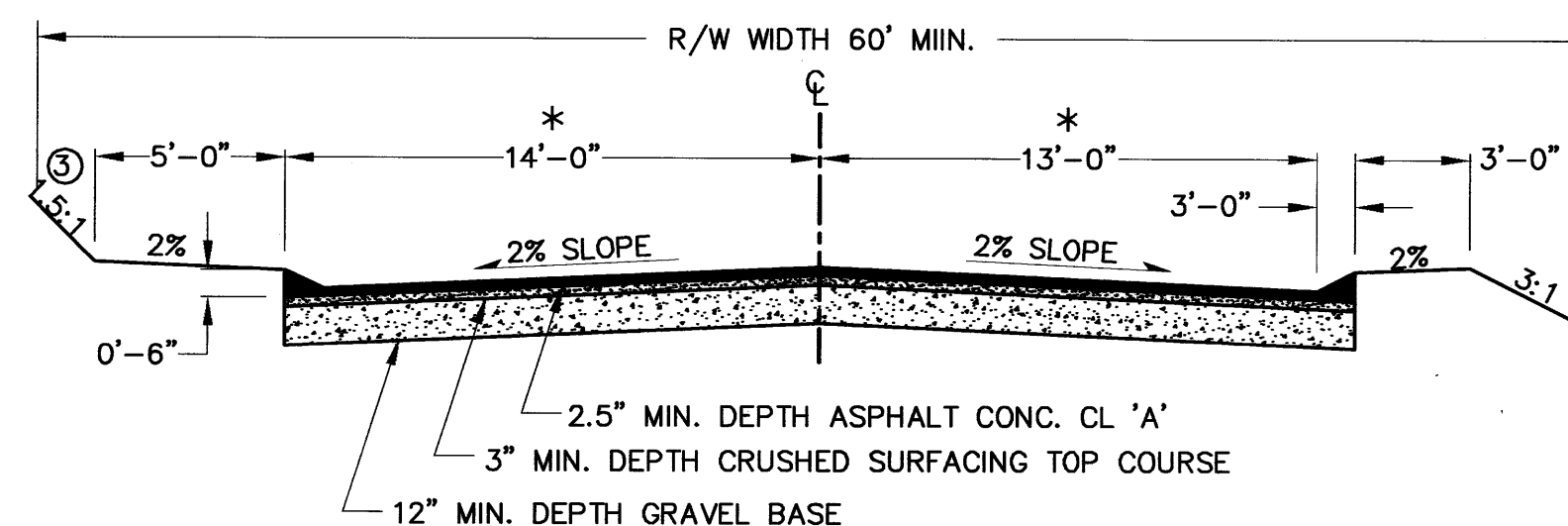
ABOVE DEPENDING ON TRAFFIC PROJECTIONS – SEE PUBLIC ROAD STANDARDS.
DESIGN LIFE 20 YEARS

- ① CUL-DE-SAC OR TURNAROUND REQUIRED ON ALL DEAD END ROADS 500' OR LONGER WITH NO INTERVENING INTERSECTIONS. THE TURNAROUND SHALL HAVE A MINIMUM TURNING RADIUS OF THIRTY-FIVE (35) FEET AND A "T" INTERSECTION WITH A MINIMUM SEVENTY-FIVE (75) FOOT ROAD SECTION PERPENDICULAR TO THE MAIN ROAD.
- ② CUL-DE-SAC, MINIMUM DRIVING SURFACE RADIUS SHALL BE 35'. MINIMUM EASEMENT RADIUS SHALL BE 50'.
- ③ CUT SLOPES STEEPER THAN 1.5:1 REQUIRE AN ENGINEERING REPORT AND ANALYSIS.
- ④ GRADES OVER 12% SHALL HAVE PAVED SURFACE.
- ⑤ TOTAL PARCELS OR RESIDENCES SERVED (PLAT PLUS ADJACENT PARCELS).

PUBLIC ROADS & PRIVATE ROADS SERVING OVER 100 PARCELS



PUBLIC ROADWAY SECTION D

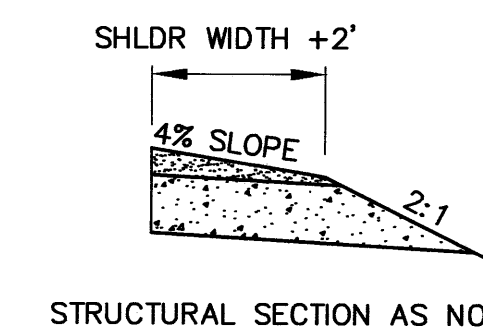


THICKENED EDGE SECTION E
(ALTERNATE FOR GRADES OVER 4% WITH ADT OF LESS THAN 2000)

* SEE CHART FOR MINIMUM PAVEMENT & ROADWAY WIDTHS FOR DESIGN CAPACITY REQUIRED.

PUBLIC ROAD SUBDIVISION STANDARDS FOR PUBLIC SUBDIVISION ROADS OR PRIVATE ROADS SERVING OVER 100 PARCELS				
ADT	CURRENT	UNDER 400	400-2000	ABOVE 2000
DHV	15 YRS HENCE		100-200	200-400
MINIMUM RADIUS (FT)	LEVEL	465	760	760
	ROLLING	250	465	465
	MOUNTAINOUS	250	250	250
MIN. STOPPING SIGHT DISTANCE (FT)	LEVEL	305	425	425
	ROLLING	200	305	305
	MOUNTAINOUS	200	200	200
DESIGN SPEED (MPH)	LEVEL	40	50	50
	ROLLING	30	40	40
	MOUNTAINOUS	30	30	30
NEW BRIDGES	WIDTH (CURB-CURB FT)	28	34	40
	DESIGN LOAD (AASHTD)	HS-20	HS-20	HS-20
	VERTICAL CLEARANCE (FT)	16.5	16.5	16.5
MIN. PAVEMENT WIDTH (FT)		22	22	24
ROADWAY WIDTH ③ (FT)		28	34	40
NUMBER OF LANES		2	2	2
RIGHT-OF-WAY WIDTH (FT)		60	60	ADEQUATE

1. MAXIMUM SUPERELEVATION RATE SHALL BE 8%.
2. ALL BRIDGES TO MEET STATE AND AASHTO STANDARDS.
3. FOR GUARDRAIL INSTALLATION, WIDTH OF SHOULDER TO BE ADDITIONAL TWO FEET. GEOMETRIC DESIGN STANDARDS FOR OVER 400 DHV SHALL BE DETERMINED FROM THE RESULTS OF AN ENGINEERING STUDY BASED ON AASHTO OR OTHER ACCEPTABLE STANDARDS.
4. DESIGN LIFE – BRIDGES AND CULVERTS 50 YEARS, PAVEMENT 20 YEARS.
5. MAXIMUM GRADE SHALL BE 12%.



DETAIL A

SHOULDER WIDENING FOR GUARDRAIL OR HAZARD PROTECTION FOR SECTION B & C AS REQUIRED.
GUARDRAIL SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE STANDARDS.

NOTES

ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH STATE OF WASHINGTON, DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT ADDITION.

NO CONSTRUCTION SHALL COMMENCE PRIOR TO APPROVAL OF PLANS AND PROFILE SHEETS BY THE COUNTY ENGINEER. ALL WORK SHALL BE UNDER THE SUPERVISION OF THE COUNTY ENGINEER.

PARKING – THESE SECTIONS DO NOT PROVIDE FOR ON-ROAD PARKING. IF PROPOSED, ADEQUATE ADDITIONAL WIDTH SHALL BE REQUIRED.

ROAD NAMES – ALL ROAD NAMES MUST BE APPROVED BY GRAYS HARBOR COUNTY.

SIGNING – ALL SIGNING SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

CUL-DE-SACS – WHEN REQUIRED, TURNAROUNDS SHALL BE PLACED AT THE END OF EACH ROAD, WITH A 50 FOOT MINIMUM RADIUS RIGHT-OF-WAY & 35' RADIUS SURFACE PROVIDED.

DRAINAGE – NO SURFACE RUNOFF SHALL BE DIVERTED ONTO THE ROADWAY RIGHT-OF-WAYS. A SEPARATE EASEMENT WILL BE PROVIDED. CULVERTS CROSSING ROADWAYS SHALL BE A MINIMUM OF 18" IN DIAMETER, AND 12" MINIMUM DEPTH OF COVER.

ALL DRAINAGE SHALL BE IN ACCORDANCE WITH AN APPROVED DRAINAGE PLAN.

OBSTRUCTIONS – OTHER THAN WARNING AND PROTECTION, ALL DEVICES SHALL BE PLACED A MINIMUM OF 10 FEET FROM THE ROAD SHOULDER.

ENGINEERING AND PLANS – ALL PLANS REQUIRING PUBLIC ROAD STANDARDS, AND OTHERS DESIGNATED BY THE COUNTY, SHALL BE PREPARED BY A LICENSED CIVIL ENGINEER IN THE STATE OF WASHINGTON. REVIEW AND APPROVAL REQUIRED BY COUNTY ROAD ENGINEER.

INDUSTRIAL OR COMMERCIAL USE SUBDIVISIONS REQUIRE PUBLIC ROAD STANDARDS. ALL NEW ROADS WITHIN PUBLIC RIGHTS-OF-WAY SHALL BE CONSTRUCTED TO THE PUBLIC ROAD STANDARD.

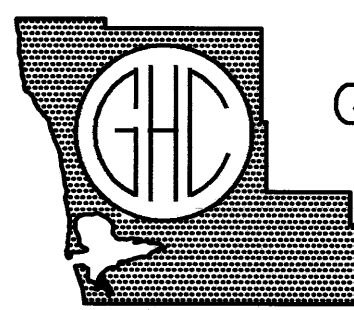
GRAVEL BASE THICKNESS MAY BE REDUCED AT THE REQUEST OF THE DEVELOPER'S ENGINEER. SUCH REQUESTS MUST BE ACCOMPANIED BY AN ENGINEERING REPORT AND ANALYSIS, DEMONSTRATING THE STRUCTURAL ADEQUACY OF THE PROPOSED ROAD SECTION. CONSTRUCTION OF SUCH A MODIFIED SECTION MAY NOT BEGIN UNTIL THE COUNTY ENGINEER HAS REVIEWED THE SUPPORTING ANALYSIS AND ISSUED A WRITTEN NOTICE.

INTERSECTIONS SHALL BE BUILT IN ACCORDANCE WITH THE APPROPRIATE CITY, COUNTY, OR STATE STANDARDS. CONNECTIONS TO PUBLIC ROADS REQUIRE ADDITIONAL SEPARATE PERMITS.

ADOPTED THIS 4th DAY OF December, 2006
GRAYS HARBOR COUNTY RESOLUTION #ORD. 354

NO	DATE	BY	APPR	REVISIONS

DEPARTMENT OF PUBLIC SERVICES
DIVISION OF ENGINEERING & CONSTRUCTION



GRAYS HARBOR COUNTY
MONTESANO, WASHINGTON

DSGN: RDE	DRN: LKG	CHKD: FJB
RECOMMENDED:	DATE: 12/18/06	
<i>F. Paul Burtis</i> DIRECTOR OF PUBLIC SERVICES		
APPROVED:	DATE: 12/18/06	
<i>Bob Bevelacqua</i> CHAIRMAN, BOARD OF COUNTY COMMISSIONERS		

MINIMUM ROAD STANDARDS

PROJ. NO:	
ACAD CREF #	RDSTND1
SCALE:	AS SHOWN
SHEET:	1 OF 1