

**Butte County Public Works
Land Development Division
Parcel Map Checklist**

5-MATH. ACCURACY

- | | | | | |
|----|--|-------|--|-------|
| A. | BOUNDARY RESOLUTION | _____ | | _____ |
| B. | ORIGINAL R/W DEED CLOSURES | _____ | | _____ |
| C. | TOTAL AREA CLOSURE | _____ | | _____ |
| D. | LOT CLOSURE AND AREA EACH LOT
(GROSS/NET AREAS) | _____ | | _____ |
| E. | AREA OF ROADS | _____ | | _____ |
| F. | CLOSURE WITHIN TOLERANCE | _____ | | _____ |
| G. | OTHER | _____ | | _____ |

Date Completed: _____

Signed By: _____

**Butte County Public Works
Land Development Division
Subdivision Map Checklist**

5-MATH. ACCURACY

- | | | | | |
|----|--|-------|--|-------|
| A. | BOUNDARY RESOLUTION | _____ | | _____ |
| B. | ORIGINAL R/W DEED CLOSURES | _____ | | _____ |
| C. | TOTAL AREA CLOSURE | _____ | | _____ |
| D. | LOT CLOSURE AND AREA EACH LOT
(GROSS/NET AREAS) | _____ | | _____ |
| E. | AREA OF ROADS | _____ | | _____ |
| F. | CLOSURE WITHIN TOLERANCE | _____ | | _____ |
| G. | OTHER | _____ | | _____ |

Date Completed: _____

Signed By: _____

Butte County Public Works Land Development Division Improvement Plan Checklist

Checked by: _____

Approved by: _____

	NEED		COMMENTS
	OK	INFO	
IMPROVEMENT PLANS			
24" x 36" or 22" x 34" plan and profile sheets.			
Name of developer, scale, north arrow, lot numbers, easement and property lines.			
Single plan and profile paper-preferred scale 20' to the inch horizontal and 4' to the inch vertical or approved alternative.			
Civil Engineer's signature and license number and seal.			
Approval block for County Engineer.			
Reference to County and Caltrans standards and any drawings that apply.			
Check entire development boundary for adequate storm discharge and pickup points. Particular care taken with street profiles at subdivision boundary where streets will be extended in future.			
Show plan and profile of all storm drainage facilities, including length, type, size, typical section and slope-also existing ground profiles and invert elevations at structures, etc.			
Show complete detailed drawings of all drainage facilities, such as headwalls or endwalls, retaining walls, junction boxes, swales, ditches, ect. Structural calculations may be required for complicated structures.			
Check for minimum cover of all drainage lines. See Appendix ____.			
All necessary easements shown on plans, deeded or dedicated on maps.			
Where steep grades exist, special inlets should be designed for adequate pickup with no overshooting.			
When allowed, provide a 0.4% minimum slope on valley gutters and indicate flow line elevations at flow line intersections.			
Provide sub-drains and filter materials in locations having excessive ground water-check for compliance with onsite wastewater system setback requirements.			
Show typical cross section of all streets. Include curb and gutter, sidewalk, drainage conduits, existing utilities, proposed utilities, pavement section and any other improvements within public R/W.			
Show property lines, easements, and lot numbers along street.			
On plan, show curb lines, drainage facilities, sanitary sewers, water lines, and other structures, sidewalks, details of sidewalk at returns and pedestrian improvements.			
Show street Right-of-Way widths.			
Show curve data (radius, delta, length, radial bearings).			
Show stationing at 100 feet intervals, at all B.C. and E.C. points in plan-at B.V.C., P.V.I. and E.V.C. points, and at grade breaks in profile.			
Show flow line curb elevations at curb return points, maximum 25' intervals at intermediate points around returns, grade breaks and at vertical curves.			

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	NEED		COMMENTS
	OK	INFO	
Show centerline grades and elevations at intersections, vertical and horizontal curves and grade breaks.			
Check curb returns for smooth curves in profile, insure drainage flows will work.			
Show existing ground and finished grade centerlines profiles.			
Show adequate vertical curve data-vertical curves required where difference in grade exceeds 1.0% in urban area, 2% in rural roads.			
Profiles of minor streets subordinated to the crown of major street.			
Show established permanent bench mark in area-datum based upon Butte County/USGS.			
Where improvements are made within existing improved streets or plans vary from typical section, show sufficient cross sections and profiles to assure proper conformance with existing improvements.			
Where improvements are made within City or State R/W, approval block and signature necessary.			
Butte County Fire Department approval block and signature required if fire protection system required. System must be shown on plans.			
Check proposed improvements for conformance with existing improvements on adjacent property with respect to elevation, grade and width of sidewalks, pavements, etc. Reference any approved plans in area.			
Show locations and type of all street signs, monuments, barricades, street lights, fire hydrants and postal units.			
Show storm drain, sewer, water and other utilities facilities in plan and profiles. Include necessary thrust block details.			
Typical trench to show bedding and backfill for water and storm drain systems.			
Pedestrian ramps at all returns where curb and gutter is installed.			
Street lights, location, type and size (I.e. 70 W HPS , 100W HPS, etc.)			
Location of street legends, pavement marking and striping and materials to be used (I.e. traffic paint, thermoplastic, buttons, etc.)			
<u>GRADING PLANS</u>			
Show all cut and fill slopes.			
Show original contours, finish contours and spot elevations throughout.			
Finished grade elevation shown at lot corners, grade breaks, house pads and along boundary of development.			
Direction of storm drainage flow on finished lots, gutters, conduits, ditches, etc.			
Locate and detail and necessary retaining walls, diversion structures, berms, and BMPs (Best Management Practice).			
Check periphery of subdivision for drainage conflicts and downstream effect.			
Plans stamped and signed by Registered Civil Engineer.			

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	NEED		COMMENTS
	OK	INFO	
<u>Drainage Map and Calculations</u>			
Hydrologic and hydraulic calculations based on accepted engineering practices method in tabular form, covering ultimate development of any contributing watershed area and extension of in-tract improvements to the subdivision boundary.			
Head loss calculations at all drainage structures where necessary.			
Drainage map must show the boundary of all tributary areas, including off-site.			
Location of all catch basins, curb inlets, valley gutters, junction boxes and other drainage structures.			
Slope of curb and gutter and drainage ditches.			
Location , size and slope of all drainage conduits, ditches, channels, detention facilities, etc.			
Letter of approval from proper authority or drainage release before increasing or redirecting drainage upon downstream properties. (These letters must cover all affected properties.)			
Location and design of all detention/retention facilities.			
Plans and calculations stamped and signed by a Registered Civil Engineer.			
Leach trench and/or detention facility location, design calculations, plans, details, EHD permits for plans.			
<u>Engineer's Cost Estimate</u>			
Submitted for purposes of establishing plan check fees and inspection deposit, based as a minimum on approved County unit prices.			
Should include all street construction items, filling and grading, all drainage items, street name signs, pavement marking and striping, monuments and all other construction items necessary to produce completed development project.			

Date Reviewed: _____

Signed By: _____