



STREET IMPROVEMENT PLAN CHECKLIST

PROJECT NAME _____ PLAN CHECKER _____ DATE _____

	1 ST Check	2 nd Check	3 rd Check	Final Bond	Comments
I. ALL SHEETS					
A. 24" by 36" size bond copy					
B. Signed by the Engineer-of-Work					
C. Show the name, address and telephone number of the firm preparing the plans and date of preparation					
D. Consecutively numbered and the total number of sheets					
E. Arial Narrow font type, no letter smaller than .10 inch					
F. Name and phase of development. Street names and construction station limits					
G. Correct City benchmark identification, location and elevation noted					
H. Show scale and bar scale					
I. Use standard details to maximum extent. Check drawings for dimensions shown on plans. (Do not place City standard details on plans)					
J. Title block with "Street Improvement Plan and Profile" (top line), street names (2nd line), and limits of construction "From street intersection to XXX' N,S,E,W" (3rd line). (Do not reference to street stationing)					
K. Acceptance block for Assistant City Engineer recommendation and City Engineer acceptance per city std. 6004					
L. Show all existing and proposed easements. Clearly indicate public or private					
M. Typical construction note #1 language to be shown on all Street Improvement Plans: "Construct ___ inches AC over ___ inches CAB minimum (see General Note #18)"					

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N. Verify with street master plan					
O. Compare to Conditions of Approval and Approved Tentative Map					
P. Submit drawings to IEUA for review if improvements are proposed above their facilities.					
II. TITLE SHEET					
A. Heading "Street Improvement Plan for ____ in City of Ontario"					
B. Consultant recommendation for acceptance block					
C. Standard general notes and construction notes provided. Construction notes match plans					
D. Basis of bearing provided					
E. Index Map					
1. Located on sheet 2					
2. Scale between 1" = 100' and 1" = 500'					
3. Sheet coverage shown					
4. Street Names shown					
5. Limits of proposed improvement					
6. Screen all unnecessary information					
F. Vicinity Map					
1. Located on title sheet					
2. Orient north					
3. Show master plan street					
4. Project boundary street shown					
G. Legend					
1. Symbols per city std 6002 and 6003					
2. All symbols and abbreviations used are listed and described only					
H. Underground service alert information at bottom left corner					
I. Owners/Developers name and address shown					

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J. Quantity estimates provided and broken down between public and private improvement					
III. STREET IMPROVEMENT PLANS					
A. Plan View shows:					
1. North arrow generally up or to the right					
2. Horizontal scale 1" = 40' for new street 1" = 20' for existing street					
3. Lot Lines, frontage distances and lot numbers same as on record map					
4. Show property and boundary lines					
5. Identify and label area located in county or adjoining city					
6. Show street name					
7. Provide table for bearing and centerline curve data					
8. Show stationing and radial bearings on centerline of driveways and curb inlets in horizontal curve					
9. Stations along the centerline to match existing					
10. New stationing to increase W to E or S to N					
11. Dimension and Label					
a. Existing and proposed right-of-way lines					
b. Right-of-way to centerline					
c. Curb to curb					
d. Curb to centerline					
e. Centerline street to centerline all utilities					
f. Sidewalk per city standard					
g. Curb and gutter per city standard					
h. Existing and proposed utilities					
12. Stations at beginning, end or change in improvements					
13. Stations for BC, EC, BCR and ECR					

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14. Intersecting street centerline stations					
15. If more than one sheet, match line station, elevation and sheet reference number					
16. Existing improvements:					
a. Use ghosted line or dashed					
b. Elevations shown with parenthesis					
c. Reference drawing numbers provided					
d. Adjacent driveways and improvements on both sides of street					
e. Sidewalk					
f. Curb and gutter					
g. Topo shown if adjacent is not being graded only					
h. Existing surface & subsurface utilities, structures in right-of-way					
i. Show and call out manholes and water valves to be adjusted to grade in construction note					
j. Show existing structures, trees, plants, shrubs and contours within 50 feet of the public right-of-way					
17. Solid lines for proposed improvements					
18. Notes for joining to existing improvements with elevations in parentheses					
19. Construction notes with standard drawings called out on each sheet. Only construction notes applied to the sheet are shown					
20. Details for improvements that are not per city standard drawing					
21. Grind and overlay min of 5 feet width and .15 foot thickness @ matching edge of pavement					
22. Limits of work for new paving, old paving, overlay and removal					
23. Curve data for knuckles and cul-de-sacs per city standards					

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24. Horizontal alignment tangents between curves shall be based on the Caltrans Highway Design Manual					
25. Intersections:					
a. City Traffic and Transportation Design Guidelines					
b. Intersection angle no less than 80 degrees					
26. Roadway tapers shall be provided as required by the CA MUTCD					
27. 2"X6" redwood header @ edge of pavements or 5 foot paving of 4 inches over native soil minimum					
28. Barricades at all dead end streets per city stds. 1310 and 1311					
29. TC and FL elevations at BCR and ECR					
30. Label high point and low point for grade breaks and transitions					
31. Curb return and property line corner cut-back at all intersections per city standard					
32. Curb return data table					
33. FL elevations of cross gutter					
34. If cut and fill beyond tract boundaries and at dead end street, show slope easement. Maximum slope allowed 3:1					
35. Transition between different standard curbs					
36. Wheelchair ramps at all curb returns per city standards					
37. 10' by 10' grid provided for major intersections					
38. Minimum 0.5% slope on centerline					
39. Minimum 0.6% slope in cul de sac and knuckle flow line					

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40. Verify right-of-way for all proposed improvements					
41. ¼ point elevations for knuckle per city standard drawing					
42. Straight grade cross gutter					
43. Station drainage swale transitions. Show typical cross sections					
44. Provide secondary outlet for sump condition					
45. Show sleeve for future irrigation and traffic					
46. 8 inch curb height (6 inch curb height allowed for local street in NMC)					
47. Minimum 5 feet for catch basin width					
48. Residential driveway access II for knuckle and cul de sac per city std. 1205					
49. Splitter islands approaching where crosswalks pass through shall be constructed of 4 inch PCC minimum					
50. Splitter islands greater than 6-feet wide a minimum of 3-feet of truncated domes shall be included to delineate the roadway from the island					
51. Identify parties responsible for relocation, removal or undergrounding of utilities					
B. Profile View shows:					
1. Horizontal scale same as plan view. Plan and profile must align					
2. Vertical scale at 1" = 4' for new street 1" = 2' for existing street					
3. Show three line profile. Label profile of existing and proposed of street centerline and top of curb					
4. Names and centerline stationing of intersecting streets					

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5. Elevation at both ends of each street					
6. 100' stationing at bottom of profile					
7. Existing ground at proposed curb line					
8. For pavement transition, show existing edge of pavement elevations every 50 feet					
9. Show joining line of proposed to existing pavement with existing elevations and grades in parenthesis					
10. Existing finish surface at centerline through street intersection					
11. Indicate length of curb return. Show true length of horizontal curves. Show ¼ delta points on returns with elevations					
12. Grade lines, + and -, minimum 0.5%					
13. Station and elevation at grade brake, maximum of 1.0%					
14. Vertical curves where grade brake greater than 1.0%:					
a. Length per Caltrans Standards					
b. Station and elevation at beginning and end of all curb returns, vertical curves, horizontal curves, transition sections, grade breaks, beginning and ending of improvements					
c. Tangent grades and PI station and elevation					
15. If curbs have variable height, show TC and FL and flowline grade					
16. Extension of profile 200 feet minimum beyond improvements					
17. If more than one sheet, match line station, elevation and sheet reference number					
18. Interim improvement to match existing					

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19. Plan and profile elevations match					
20. Sufficient elevations shown to verify "grade to drain" areas work					
21. Minimum centerline grade is 0.50%. Cul de sac and knuckle shall have 0.60% minimum flow line grade					
C. Section shows:					
1. Label private street					
2. Sections looking up station and show all existing, future and proposed improvements, include right-of-way					
3. Typical section per city standard					
4. Street station limit for each section					
5. Cross slope computed to 0.02 foot above lip of gutter and is between 2% minimum and 4% maximum where matching existing pavement					
6. If cross slopes vary, show range of slopes					
7. Label right-of-way, P.U.E. centerline and offset crown (if applicable)					
8. If streets are bounded by undeveloped land, show daylight line of existing and future right-of-way					
9. Cross sections every 50 feet of existing streets					
10. TI per city standard					
11. Profile matches typical section					
12. 5 foot wide sidewalk per city standards					
13. Show 3:1 cut/fill to daylight at right-of-way					
D. Improvement plans conform to Conditions of Approval					
E. Improvement plans consistent with grading plan and final map and other existing plans					

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F. Compare design to existing plans					

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