Sewer Plan Checklist Page 1 of 9



SEWER PLAN CHECKLIST

| PROJECT NAME PLAN CHECKER | DATE | |
|---------------------------|------|--|
|---------------------------|------|--|

| | | | 1 ST Check | 2 nd Check | 3 rd Check | Mylars | Comments |
|----|---|--|--------------------------|--------------------------|--------------------------|--------|---|
| I. | ALL SHEETS | | | | | | |
| | A. Medium | | | | | | |
| | 1. 24"x36 format | ' size Mylar film conforming to City | | | | | |
| | 2. No "stic | cky back", glued or taped on sections | | | | | |
| | photog | with waterproof ink or reproduced on raphic emulsion Mylar film, no Diazo or aphic copies | | | | | |
| | | the Engineer-of- Work, date of registration adjacent to signature | 4 | | | | |
| | | th the name, address and telephone the firm preparing the plans and date of | | | | | |
| | D. Consecutiv | ely numbered & the total number of | | | | | |
| | E. Lettered in lettering sn smaller tha | n a neat and legible style, no hand naller than 1/8" and no machine letter n 1/10" | | | | | |
| | | phase of development. Street name & n limits. See I.O. (N/A to title sheet) | | | | | Required for archive retrieval |
| | G. Confirm C and elevation | ity benchmark identification, location on noted | | | | | NMC to match Stantec and should be based on SB Co. OMC contact Ann Marie @ City |
| | H. Prepared to | o appropriate scale(s) | | | | | |
| | I. Scale note & bar scale | d. North arrow (oriented up or to right) | | | | | |
| | extent. Che | ard plans and details to maximum eck drawing for dimensions shown on w detail for non-std improvements | | | | | |

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| | | | 1 ST Check | 2 nd Check | 3 rd Check | Mylars | Comments |
| | K. | Note all reference drawings on plans | | | | | |
| | L. | Clearly designate between existing conditions (dashed) and work proposed (solid) | | | | | |
| | M. | No duplication of any section or detail designation | | | | | |
| | N. | Use City standard Title block per Std 6004 | | | | | |
| | O. | Title Block with "Water Improvement Plan & Profile" (top line); street name (2 nd line) and limits of construction "From <u>street intersection</u> to <u>street intersection</u> (or <u>XXX' N,S,E,W</u>)" (3 rd line) | | | | | Required for archive retrieval |
| | P. | Acceptance block// Recommended By: Louis Abi- Younes/Asst. City Engineer RCE 44485 Exp 3-31- 08. Accepted By: John P. Sullivan/City Engineer RCE 24079 Exp 12-31-07. (public facilities only) | | | | | |
| | Q. | All existing & proposed easements clearly shown. Clearly indicate private or public. (City min. width 15'). 20' on dead ends over 300' | | | | | 061019 Design Guidelines Sec 1.2 |
| | R. | Compare to Conditions of Approval & approved Tentative Map or Site Plan | | | | | |
| | S. | Review Master Plan Sewer Study for location & size | | | | | |
| II. | TIT | LE SHEET | | | | | |
| | A. | Heading centered at top of sheet "Sewer Improvement Plans forin City of Ontario" | | | | | |
| | B. | Consultant recommendation for acceptance block (public facilities only) | | | | | |
| | C. | Standard General Notes & construction notes provided. Construction notes match plans | | | | | |
| | D. | Additional notes are designated as "Special Notes" | | | | | |
| | E. | Confirm note 17 states stationing is per pipe CL | | | | | |
| | F. | Basis of bearing provided | | | | | |
| | G. | Index Map | | | | | |
| | | 1. Scale is 1" = 100' or 1" = 500' | | | | | |
| | | Sheet coverage shown | | | | | |

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| | Sewer Plan Checklist | | | | | Page 3 of 9 |
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| | | 1 ST Check | 2 nd Check | 3 rd Check | Mylars | Comments |
| | 3. Located on Title Sheet | | | | | |
| | 4. Street Names shown | | | | | |
| | 5. Identify areas in the County | | | | | |
| | 6. Show sewer line, MHs with MH #s, & flow direction arrows on sewer line (info may be shown on larger "System Map" on sheet 2) | | | | | |
| F. | Vicinity Map | | | | | |
| | Orient north as on index map | | | | | |
| | 2. Arterial streets shown | | | | | |
| | Project location shown | | | | | |
| G. | Legend | | | | | |
| | Symbols per City standards per 6002-6003 | | | | • | |
| | Non-standard symbols and abbreviations used are listed and described | | | | | |
| Н. | All reference drawings are listed | | | | | |
| I. | Owners/Developers name and address shown | | | | | |
| J. | Separate written justification for deviations provided | | | | | |
| K. | Quantity estimates provided and broken out between public and private & per tract if multi-tract project (Private facilities are not to be included in cost estimate) | | | | | |
| L. | Underground service alert | | | | | |
| M. | Is there a fully completed "Legal Description of Property"? Match title report | | | | | |
| I. PL | AN VIEW | | | | | |
| A. | Plan View Shows | | | | | |
| | 1. Horizontal Scale 1"=40' | | | | | |
| | 2. Show only construction notes used on sheet | | | | | |
| | Lot lines, centerline, right-of-way lines, City limits adjacent to project match st imp & FM | | | | | |

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|-----|---|--------------------------|--------------------------|--------------------------|--------|----------|--|
| | | 1 ST Check | 2 nd Check | 3 rd Check | Mylars | Comments | |
| 4. | Approved name of street shown (when available) | | | | | | |
| 5. | Bearing and centerline curve data. | | | | | | |
| 6. | Show all driveways & water mains and laterals | | | | | | |
| 7. | Sewer constructed to sewer bdry w/in ROW | | | | | | |
| 8. | State whether the sewer system is "public" or "private" (property owner owned and maintained). The jurisdictional boundary must be clearly delineated. Public sewer to be in min 15' easement | | | | | | |
| 9. | Stationing to match existing plans. New stationing shall increase west to east or south to north, except where street ends in west of south cul-de-sac. | | | | | | |
| 10. | Identical stationing on consecutive sheets | | | | | | |
| 11. | Plan & profile views are to be aligned | | | | | | |
| 12. | Bearings & stationing of all street centerlines | | | | | | |
| 13. | Sewer constructed to boundary w/in ROW | | | | | | |
| 14. | Station @ begin & end of improvements & @ CL of D/W | | | | | | |
| 15. | Sewer station numbers xx+xx.xx, independent of street station. Show for all appurtenances (e.g., manholes, laterals, etc) along the path of the sewer line. Begin @ lowest MH & increase upstream | | | | | | |
| 16. | Section views of all pipelines crossing sewer mains should be in the profile view of the sewer main. | | | | | | |
| 17. | Terminal MH is required at the PL or City boundary w/in ROW | | | | | | |
| 18. | Drop manholes per Std 2002. | | | | | | |
| 19. | All sewer lines to terminate in MH. Including stub outs to future connections | | | | | | |
| 20. | Reverse horizontal curves are not allowed. | | | | | | |
| 21. | Show flow direction arrows on sewer line. | | | | | | |
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|---|----------------------------------|--------------------------|--------------------------|--------|----------|--|--|
| | 1 ST Check | 2 nd Check | 3 rd Check | Mylars | Comments | | |
| 22. Stationing of all structures and BC & EC of all curves | | | | | | | |
| 23. Slopes in excess of 45 degrees (50% slope) to the horizontal are not allowed. | | | | | | | |
| 24. Trees and buildings are not allowed over sewer easements. | | | | | | | |
| 25. Except in special cases, block walls are not allowed over sewer easements. | | | | | | | |
| 26. Topography shown per city std | | | | | | | |
| 27. Crossing (invert) elevations should be given when a sanitary sewer line crosses another pipeline. | | | | | | | |
| 28. Do sanitary sewer mains and laterals conform to City Standards (with respect to the following)? | | | | | | | |
| a) Min size for mains = 8" for interior streets & per master plans on perimeter streets SFR lat = 4" min; MFR & Com/Ind lat = 6" min (Std 2003) | | | | | | | |
| b) All mains and laterals shall be VCP | | | | | | | |
| c) Acceptable radius of curvature of pipeline layout (for main lines, allowable curvature dependent upon pipe size material: service laterals must be straight). | | | | | | | |
| d) Horizontal clear with other utilities (min 10' Otherwise protective casing or higher grade pipe material required). | | | | | | | |
| e) Vertical clearance with other utilities (min 1' w/out joints, sewer lines to be below all other pipelines) Add note "Center one length of pipe underneath the utility" per std 4001. | | | | | | | |
| f) Located per std 1302-1304. Other locations per city approval. | | | | | | | |
| Sewer stationing to conform with stationing of existing plans | | | | | | | |
| 30. Easements for sewer facilities 15' minimum. Additional 10' for each additional utility w/in the easement. | | | | | | | |

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| | | 1 ST Check | 2 nd Check | 3 rd Check | Mylars | Comments | | |
| 31. | Show easement limits & course. Easement not to be centered on lot lines | | | | | | | |
| 32. | Sewer laterals to conform to std 2003 | | | | | | | |
| 33. | Each building should have at least one (1) separate lateral coming off the main line. | | | | | | | |
| 34. | Sewer laterals cannot run across an adjacent property line (except under certain hardship cases, such as "landlocked" properties). | | | | | | | |
| 35. | Sewer laterals cannot come off of the other sewer laterals. | | | | | | | |
| 36. | No laterals opposite each other. Min 2' separation | | | | | | | |
| 37. | Sewer laterals are to extend to the property line and be stationed | | | | | | | |
| 38. | All plan sheets to have house lateral location block (design station & as-built station) | | | | | | | |
| 39. | Show all water laterals. Min separation is 5' | | | | | | | |
| 40. | Show all ex pipes, irr lines, structures, etc in ROW or adj to ROW that might affect design | | | | | | | |
| 41. | On single family residences, sewer laterals and water service laterals must be at least 5 feet apart. | | | | | | | |
| 42. | A sampling manhole is required when a common sewer lateral has branches going to more than one building. A manhole is required at each junction point, along with an easement around the common lateral and manhole (s). | | | | | | | |
| 43. | If a sewer lateral serves one building only, a manhole should be installed at the property line. | | | | | | | |
| 44. | Show, label, & dimension all existing or proposed st lt, FH, and underground utilities | | | | | | | |
| 45. | Show existing, proposed & future ROW & improvements widths. Should conform to street plans | | | | | | | |
| 46. | All existing sewer facilities should be completely and correctly shown | | | | | | | |

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| | 1 ST Check | 2 nd Check | 3 rd Check | Mylars | Comments |
| 47. All existing and proposed points of connection to existing facilities to be correctly depicted. | | | | | |
| 48. All proposed sewer facilities should be in conformance with all applicable Water Districts Master Plans. | | | | | |
| 49. Residential sewer laterals must have backflow prevention devices if the nearest upstream manhole rim elevation is higher than the pad elevation. | | | | | |
| 50. Maximum MH spacing is 350' | | | | | |
| 51. Where lateral size is 8" or larger, connection is to be at MH | | | | | |
| 52. Lot lines, frontage distance, & lot #s to match map | | | | | |
| 53. Show detail of rechannelizing of bottom of existing MH where required | | | | | |
| 54. No sewer is to pass under buildings | | | | | |
| Profile View shows: | | | | | |
| Horizontal scale same as plan view 1"=40' | | | | | |
| 2. Vertical scale at 1" = 4' (new); 1" = 2' (existing) | | | | | |
| 3. Label all profiles | | | | | |
| 4. Names & CL stationing of intersecting streets | | | | | |
| Label & show connection to existing sewer w/ elevation & grade. Denote existing in () | | | | | |
| 6. Datum elevation at both ends of each street | | | | | |
| 7. 100' stationing at bottom of profile | | | | | |
| 8. Show finished street surface on top of sewer | | | | | |
| Show existing street surface on top of sewer | | | | | |
| 10. Names & centerline stations of existing street | | | | | |
| Label and show stations and elevations at end of sewer and at sewer crossings; rim and inverts of manhole and cleanouts | | | | | |

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| 1 ST Check | 2 nd Check | 3 rd Check | Mylars | Comments |
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| | | | | |
| | | | | Current conflict between 061019 Design Guidelines Sec 3.3 (7.5') & Std Dwg 1302-1304 (10'). Verbal direction from City is 7' |
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| | - | · - | | 1 ST 2 nd 3 rd Mylars |

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| 1 ST | 2 nd | 3 rd | Mylars | Comments |
|-----------------|--------------------------|--------------------------|--------|----------|
| Check | 2 nd Check | 3 rd Check | | |
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