

PRIVATE SEWER MAIN IMPROVEMENT PLAN CHECKLIST

Date & Initial = OK
 Blank = DEFICIENT
 ----- = N/A

	EOW	Check	Verify
A GENERAL	-----	-----	-----
1. Initial engineers estimate of quantities and costs and initial plan checking fee paid: \$_____ (Per current City of El Cajon Fee Schedule)			
2. Final engineers estimate and final (difference in) plan checking fee paid/reimbursed: \$_____			
3. Size – Standard "D" sheet or equal.			
4. Signature & stamp of Registered Engineer Preparing Plans on all sheets			
5. Signature of Irr/Water Engr. (HELIX WATER DISTRICT) signature block on title sheet ONLY			
6. Title Block	-----	-----	-----
a. Signature Block for Public Works on title sheet ONLY			
b. City Dwg. No. and Job No.			
c. Related actions.			
d. Space for As-built signature.			
e. Job Title.			
f. "Record Map # _____, Printed in lower right hand margin.			
g. Add “ PRIVATE CONTRACT”			
7. Work to be done notes & symbols.			
a. Work to be done per Standard specifications and drawings and date accepted by Council.			
b. Symbols / Legends.			
c. General notes.	-----	-----	-----

8.	Bench Marks			
a.	Existing Bench Mark No. used with elevation on title sheet ONLY			
b.	New Bench Marks located per policy.			
9.	North arrows.			
10.	Scales: Engineering Scales only: (Plan 30, 20, 10; Profile 12, 6, 3)			
11.	Street names shown.			
12.	Indicate Sheet No. for intersecting streets.			
13a.	Key map – plans with 3 or more sheets.			
b.	Vicinity Map.			
B.	<u>PRIVATE SEWERS</u> (4.1)			
1.	Plan and Profile.			
2.	Assign manhole #'s (City staff to provide numbers).			
3.	Include distances to adjacent public sewer manholes.			
4.	Type, Size and grade – PVC only, 8" minimum, 0.4% minimum grade.			
5.	No curves horizontal or vertical.			
6.	Minimum cover 4' for sewer mains (deep enough to serve future connections; also see minimum lateral depth)			
7.	Concrete encasement & cradle. <4' and >14' (4.1.d)			
8.	Manhole at end of all sewers and at all grade breaks and angle points.			
9.	M.H. to M.H. maximum distance 300' unless more approved by P.W. Maintenance Manager.			
10.	Lengths and grades between manholes.			
11.	Trench cut-off wall – where grade of existing ground is 20% or more.			

12.	4" lateral to each lot with invert grade.			
13.	Minimum lateral depth 5' below top curb elevation @ property line.			
14.	Stub in M.H. for future extension - inv. elevation.			
15.	Adjust existing manholes to finish grade.			
16.	Extend or lower existing lateral or C.O.			
17.	Sewer & water separation min. 10'. Water line to be above sewer line.			
18.	Sewer manholes minimum 5-foot diameter (SM-02)			
Remarks				