Grading & Drainage

Goodyear

REVIEW #

BY | DATE

NUMBER	ITEMS	NOT REQ'D	NOT DONE	SATISFIED	Location in Standards
	Cover Sheet				
1	RID Signature Block (Signed & Sealed)	☐	☐	☐	0.2.3, 2.3.2(C), 2.6.12, 2.13.2
	Detail or Notes Sheet (second sheet in set)				
2	COG General Notes for G&D				0.4.3, 2.11.1(H)
3	Grading Details & Typical Sections	☐	☐	☐	2.6.14, 2.11.4(B), 2.11.5(A.1), 4.1.4(G), 4.1.9(B.4), G-3206
4	Lot grading detail (lots shall be 1% min to street, show detail)	☐	☐	☐	3.2.1(C.1), 3.2.1(C.2), G-3570
	Plan Sheets				
5	Scale 1=40 minimum				2.11.1(L)
6	No Grading outside of property lines without an easement (show limits of grading)	☐	☐	☐	0.4.3(D), 2.11.5(B.8)
7	No adverse Impacts to adjacent properties	☐	☐	☐	1.5.2(A), 3.3.2(A), 3.3.3(C)
8	Centerline & CL Stations shown	☐	☐	☐	4.1.1(E.2), 4.2.5(B.2.c.7)
9	Grade breaks shown	☐	☐	☐	2.11.5(B.5), 2.11.6(B.1.d)
10	Slopes shown on streets	☐	☐	☐	2.11.6(B.1.d)
11	Slopes, 4:1 max, no slope >6:1 <10' from road or sidewalk or in R/W	☐	☐	☐	0.4.3(I), 1.4.3, 3.2.1(A.4), 3.3.6(C.2.b), G-3206
12	Drainage ways, SD & Channels shall be in easements/tracts or R/W	☐	☐	☐	3.3.2(F), 9.1.3(D.12), Sub Reg 15-3-7(C)
13	Sufficient Adjacent Topo & Land info	☐	☐	☐	2.11.5(B.2), 3.2.4(A.2)
14	Label or notes describing all existing features to be removed	☐	☐	☐	1.1.1(D)
15	Elevations at rear lot corners shown	☐	☐	☐	2.11.5(B.2.d)
16	Outfall elevations shown	☐	☐	☐	3.3.6(C.5)
17	Existing Irrigation facilities which are to remain in right-of-way must be tiled	☐	☐	☐	4.1.2(C.4)
18	FF & pad elevation shown	☐	☐	☐	0.4.2((M), 2.11.2(S), 10.1.2(F.5)
19	FF is 18" over outfall of site	☐	☐	☐	0.4.2(B), 3.2.1(B.3)

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20	FF is 12" over high water elevation in basins, streets, or channels	☐	☐	☐	3.2.1(B.3), 3.3.6(A.1.b.1)
21	Vertical drops of 2' or more require safety railing (headwalls, sidewalks, retwalls)	☐	☐	☐	4.1.5(B.3)
22	Walls between lots or alleys not to exceed 6' in height. Ret Walls 6' max height. 12' max wall face. 6' max facing public view	☐	☐	☐	3.2.1(D), 4.1.5(B.2.b), 8.1.6(A)
23	Ret walls are required between lots that have an elev difference of more than 1'. Add note to plans: Retaining walls are for reference only. All Retaining walls must be submitted to Building Safety approval and inspection	☐	☐	☐	0.4.12(D), 3.2.1(C.4), 3.2.1(D), 4.1.5(B.2.b)
	Channels				
24	If Channel changes in direction of > 45 degrees then run-up calcs will be req'd	☐	☐	☐	3.3.7(D.5)
25	Provide a 8' wide maintenance roadway at channels for drainage easements	☐	☐	☐	3.3.4(B.3)
26	Check channel max velocity is < scour velocity of soils or provide protection	☐	☐	☐	3.3.5(C.3)
27	Show HWE at channel structures	☐	☐	☐	3.3.2(E), 3.3.4(B.2)
28	Flowline of culverts must be > 0.5' above natural wash or show how the capacity is reduced	☐	☐	☐	3.3.7(C)
29	No embankments/ berms to be used for impounding storm water	☐	☐	☐	3.3.6(D.2)
30	Maintenance of channel shall be stated on plat & Grading & Drainage Plans	☐	☐	☐	3.2.3(A.6), 3.3.5(C.4.b)
31	Show flow rate of natural washes or manmade channels	☐	☐	☐	3.2.3(A.7)
	Retention Basins				
32	100% of the 100 yr 6 hr storm retained on-site	☐	☐	☐	1.5.2(A), 3.2.1(A.2)
33	3 foot deep max	☐	☐	☐	3.3.6(C.1.d), 3.3.6(C.1.e)
34	4:1 slopes max	☐	☐	☐	0.4.3(I), 3.2.1(A.4), 3.3.6(C.2.b.2)
35	6:1 near pedestrian access	☐	☐	☐	0.4.3(I), 3.2.1(A.4), 3.3.6(C.2.b.1)
36	10:1 slope 10' from street & 1.5 max depth	☐	☐	☐	0.4.3(I), 3.3.6(C.1.c)

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37	0.5% min bottom slope towards the discharge points	☐	☐	☐	3.3.6(C.2.a)
38	Freeboard 12" off-site, 6" on-site	☐	☐	☐	3.3.6(A.1.b)
39	Freeboard elev. contour shall be @ least 4' horizontally from any building or public roadway.				3.3.6(C.7.c)
40	First Flush Separation (first ½" rain)	☐	☐	☐	3.1.3(C), 3.3.6(G.2), 3.3.6(I)
41	No retention within R/W, PUE, or easements	☐	☐	☐	0.4.3(I), 3.3.6(C.1.a), 3.3.6(C.7.a), G-3206
42	No retention/detention in parking lots of multi family developments	☐	☐	☐	3.3.6(C.4.a)
43	No retention in the Fire Lane				3.3.6(C.4.6)
44	Basin 1' deep or less than 1,000 cy can allow the use of an Eng floor/trench option (Include Geotech report in the drainage report)	☐	☐	☐	3.3.6(C.8.c.2)
	Internal Items				
1	Review General Plan Review Checklist	☐	☐	☐	0.1.1, 0.3.1, 1.3.2, 2.6.4(C), 2.6.10, 2.6.16
2	SWPPP included with plan set & NOI submitted (if > than 1 acre disturbed, see SWPPP checklist)	☐	☐	☐	0.3.5, 0.3.6, 0.4.4, 0.4.5, 2.6.15(C), 2.8.2(D), 3.2.2.(E.1.e.1), 3.3.2(A)
3	Drainage Report Submitted (see checklist)	☐	☐	☐	0.3.2, 3.2.2
4	Does site comply with Master Drainage Plan	☐	☐	☐	3.2.2 (D.2)
5	G&D plans are combined with Paving plans (see paving checklist)	☐	☐	☐	0.3.13
6	Drywells shown (see Drywell checklist)	☐	☐	☐	0.3.7, 3.6.(H.1)
7	Storm Drain shown (see storm drain checklist)	☐	☐	☐	0.3.8
8	All parking, maneuvering areas, driveways & fire lanes must be dust proof	☐	☐	☐	2.11.2(S), Ordinance No. 8A (08-3748) 08-1108
9	Blasting Site needs Fire Dept Permit (separate permit from Building Safety)	☐	☐	☐	Fire Department "Site Permit Application" 2.11.2(S)
10	Industrial Sites that have Fuel Tanks needs Fire Dept Permit (separate permit from Building Safety)	☐	☐	☐	Fire Department "Site Permit Application" 2.11.2(S)