

CITY OF PALM COAST

FINAL LOT GRADING & DRAINAGE CERTIFICATION

- This Final Lot Grading & Drainage Certification Form is to be used in conjunction with building permits issued for one- and two-family dwellings only.
- This Certification Form to be completed by a Florida licensed professional engineer only.
- This Certification Form consists of three parts 1.) A checklist which is part of this Form with each item to be initialed by the professional engineer affirming the Final Lot Grading & Drainage complies with the standard referenced; 2.) A blank page (supplied as necessary) to be completed by the professional engineer noting and describing any discrepancies between the City approved Lot Grading & Drainage Plan and the Final Lot Grading & Drainage Certification along with commentary and engineering design, if necessary, and; 3.) The Final Lot Grading & Drainage Plan that graphically documents and illustrates the "as-built" lot grading and drainage conditions at completion of the home, after all site improvements and landscaping including installation of sod is completed.
- This Certification Form shall be completed in its entirety and shall not be altered or revised in any manner.
- Incomplete, altered and / or revised forms will not be accepted by the City.

Date:		Address:		
Permit	No	Lot:	Block:	
site	rint name) ineer, certify construction of all stormwater, lot gradir improvements and landscaping including instal ding & Drainage Certification.			
stateme occurre this lot. similar propert details propert	respond to each of the following statements below been initialed with a "No". attach an explanation detailined and its effect, if any, on the intended performance of the discrepancy, change or deviation has no effect language. If the discrepancy, change or deviation are y, provide a detailed explanation of the discrepancy, of the engineering design solutions installed or constructed in conformance with the profession.	ing the discrepancy, cha of the stormwater gradi- ct, then provide a staten ffects the original design change or deviation tha structed to eliminate its end ad was inspected by the	nge or deviation ng and drainage nent indicating "r n and or any adja at occurred and in effect on the adja	that design for no effect" or acent nclude acent
1.	This certification is accompanied by an As-Built Fin Plan dated (date must be within certification).			No
2.	The As-Built Final Lot Grading & Drainage Plan wa installation of landscaping including sod.	s prepared after	Yes	No

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	3.	The final lot grading and drainage for this lot was completed in substantial conformance with the City approved Site Plan. Note: if the response to this statement is "No", provide a detailed response describing the discrepancy, change or deviation and provide a supporting engineering design as necessary. Cloud or otherwise graphically identify the area where the discrepancy, change or deviation occurred on the Final Lot Grading & Drainage Plan.	Yes	_ No
Γh	e As	-Built Final Lot Grading & Drainage Plan complies with the following:		
	4.	On-site, third order, easily identifiable benchmark referenced to the 1988 NAVD (e.g. fire hydrant, nail in power pole) is shown. <i>Note: pavement nails may be accepted if preferred locations are not available on site.</i>	Yes	_ No
	5.	FFE for house shown and within 0.20 feet of the FFE shown on the City approved Grading & Drainage Plan.	Yes	_ No
	6.	FFE for garage shown and within 0.20 feet of the FFE shown on the City approved Grading & Drainage Plan.	Yes	_ No
	7.	FFE of garage floor shown and not less than 4 inches (0.333 ft.) lower than FFE of house.	Yes	_ No
	8.	Garage floor slope shown and provided with positive slope towards vehicle entrance.	Yes	_ No
	9.	FFE of all exterior attached concrete slabs (e.g. porches, patios, lanai's, exterior door landings, sidewalks [those located within 10 feet of the foundation] and similar) shown and are not less than 4 inches (0.333 ft.) lower than the FFE of the house. <i>Unattached pads solely for the purpose of supporting AC, LPG and pool equipment are exempt.</i>	Yes	_No
	10.	All exterior attached or unattached concrete slabs and other impervious surfaces directly adjacent and /or within 10 feet of the foundation slopes shown and are sloped 2% minimum. Note: Unattached pads solely for the purpose of supporting AC, LPG and pool equipment are exempt.	Yes	_ No
	11.	Finished grade elevations (at each corner and at 20-foot intervals are shown along each side of house) directly adjacent to building envelope and are 4 inches (0.333 ft.) lower than FFE of house [block] or 6 inches (0.5 ft.) lower than house FFE [wood frame].	Yes	_ No
	12.	Finished grade slopes (at each corner and at 20-foot intervals along each side of house) are shown and are a minimum of 5% in first 10 feet perpendicular to foundation. Note: Where lot lines, walls, slopes or other physical barriers prohibit 6 inches of fall within 10 feet, drains or swales shall be constructed to ensure drainage away from the structure. Swales, drains and other conveyances must be shown on the Final Lot Grading & Drainage Plan and any physical conveyance structures must be designed by the professional engineer completing this Final Lot Grading & Drainage Certification and documented on a separate sheet.	Yes	_ No
	13.	FFE of houses on adjacent lots (left and right side) are shown and are within 0.20 feet of the FFE shown on the City approved Grading & Drainage Plan. Note: If adjacent lots are vacant, then FFE of nearest lots are shown.	Yes	_ No

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14.	FFE of house is a minimum of 12 inches (1.0 feet) higher than crown of road.	Yes	_ No
	FFE of house is not more than 10 inches (0.833 ft.) higher or lower than the lowest adjacent (left or right) house FFE. Finished grade elevations provided on a 20-foot grid inside property lines. Note: Grid must provide sufficient grade shots to establish the drainage pattern and direction of flows – additional grade elevation shots may be required at the discretion of the City.	Yes	
17.	Finished grade elevation high points are clearly noted.	Yes	 No
18.	Finished grade elevations provided at 20-foot intervals on adjacent lots at 10 foot off-sets from the common side property lines.	Yes	_No
19.	All hard surface elevations are expressed to the nearest 0.01 ft.	Yes	_ No
20.	All ground surface elevations are expressed to the nearest 0.1 ft.	Yes	_ No
21.	Finished grade elevations of the front property line match the edge of pavement elevations.	Yes	_ No
22.	The road centerline and edge of pavement elevations for all roadways adjacent to all property lines are shown at the 9, 12 and 3 o'clock positions.	Yes	_ No
23.	The lot has a minimum of 0.50 feet of fall in the drainage patterns from the rear property line to front yard swale.	Yes	_ No
24.	The Final Lot Grading & Drainage Plan is provided with stormwater / drainage flow / directional indicators at sufficient intervals to indicate actual flow of drainage including drainage away from / perpendicular to structure on all sides, drainage from structure to rear yard swale, drainage from rear property line and / or rear yard berm towards rear yard swale, side yard berms toward rear and side yard swales, drainage along the side yards, drainage from front yard and indicating all drainage reaches its intended outfall – the front yard swale for A drainage lots and rear yard outfall for B drainage lots.	Yes	_ No
25.	There are no slopes anywhere on the lot that exceed 4:1.	Yes	_ No
26.	All slopes that adjoin adjacent developed lots do not exceed 4:1 or are provided with a common swale or match existing grades.	Yes	_ No
27.	All slopes that adjoin adjacent undeveloped lots do not exceed 2:1 or are provided with a common swale or match existing grades.	Yes	_ No
28.	The elevation of the top of slope of all swales along property lines are a minimum of 0.30 feet higher than the toe of the slope.	Yes	_ No
29.	Inverts of driveway culvert pipes of adjacent (left and right) properties and any other drainage features within 100 feet of the property lines.	Yes	_ No
30.	Driveway widths at the property line is shown (minimum 10 feet) and at edge of pavement (minimum 16 feet) is shown.	Yes	_ No
31.	The distance from the edge of the driveway flare at the edge of pavement to the centerline of an intersection where the driveway is on the same side of the road street as the stop sign is a minimum of 65 feet and is shown.	Yes	No

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		No structures including flatwork (e.g. pa pads encroach into any utility, drainage	· · · ·	Yes	_No
		No structures on the lot interfere with the	e performance of the lot grading	Yes	No
		The tolerance of the final swale elevatio Swale Plan is within plus or minus 0.10		Yes	 _No
		The swale and culvert have positive slo as indicated on the City approved Swale		Yes	_No
	á	The driveway culvert pipe is set within the approved Swale Plan and is not sloped drainage flow and is not sloped more the drainage flow.	against the intended direction of	Yes	_ No
Engine	ering	Certification			
Check	One ((1)			
	At the time of the inspection by the undersigned professional engineer below, the finished grade elevations and slopes, drainage flows and patterns and completed final lot grading on this lot is in substantial conformance with the stormwater grading and drainage design shown on the City approved Grading & Drainage Plan for this lot. It is my professional judgement, as completed at the time of inspection, the grading and drainage of this lot will function as intended in the approved Grading & Drainage Plan for this lot and will have no adverse effect on adjacent lots.				
	At the time of inspection by the undersigned professional engineer below, the finished grade elevations and slopes, drainage flows and patterns and completed final lot grading on this lot is in general conformance with the stormwater grading and drainage design shown on the City approved Grading & Drainage Plan for this lot with the exceptions noted. It is my professional judgement, as completed at the time of inspection, the grading and drainage of this lot including the exceptions noted, will function as intended in the approved Grading & Drainage Plan for this lot and will have no adverse effect on adjacent lots.				
undersi belief, a	gned and in	professional engineer below, and base	ned in Section 471.005(7), F.S., have been d upon the professional engineer's knowled ed procedures consistent with the applicab pressed or implied.	dge, inform	ation and
			Name (print): Email: Phone: Company:		

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