Page 1 of 7 Issue Date: October 22, 2013 Effective Date: March 7, 2014 Case No.: 13-04-7033P LOMR-APP



Federal Emergency Management Agency

Washington, D.C. 20472

LETTER OF MAP REVISION **DETERMINATION DOCUMENT**

	COMMUNITY AND REVISION	INFORMATION	PROJECT DESCRIPTION	BASIS OF REQUEST			
COMMUNITY	Seminole County Florida (Unincorporated Areas)		NO PROJECT	BASE MAP CHANGES FLOODWAY HYDRAULIC ANALYSIS HYDROLOGIC ANALYSIS NEW TOPOGRAPHIC DATA			
	COMMUNITY NO.: 120289						
IDENTIFIER	Winter Park Chain of Lakes		APPROXIMATE LATITUDE & LONGITUDE: 28.631, -81.325 SOURCE: USGS QUADRANGLE DATUM: NAD 83				
	ANNOTATED MAPPING EN	ICLOSURES	ANNOTATED STUDY ENCLOSURES				
TYPE: FIRM*	NO.: 12117C0165F	DATE: September 28, 2007	7 DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT:September 2 PROFILE(S): 20P FLOODWAY DATA TABLE: 5 SUMMARY OF DISCHARGES TABLE: 3				

FLOODING SOURCE(S) & REVISED REACH(ES)

See Page 2 for Additional Flooding Sources

Stream A No. 2 - from the boundary between Seminole and Orange Counties to approximately 280 feet upstream

Howell Creek - from the confluence with Lake Howell to the county boundary between Seminole and Orange Counties

SUMMARY OF REVISIONS						
Effective Flooding	Revised Flooding	Increases	Decreases			
Zone A	Zone A	YES	YES			
Zone AE	Zone AE	YES	YES			
Zone X (unshaded)	Zone X (shaded)	YES	YES			
Floodway	Floodway	YES	YES			
	Effective Flooding Zone A Zone AE Zone X (unshaded)	Effective Flooding Zone A Zone AE Zone X (unshaded) Revised Flooding Zone A Zone A Zone AE Zone X (shaded)	Effective Flooding Revised Flooding Increases Zone A Zone A YES Zone AE Zone AE YES Zone X (unshaded) Zone X (shaded) YES			

* BFEs - Base Flood Elevations

DETERMINATION

This document provides the determination from the Department of Homeland Security's Federal Emergency Management Agency (FEMA) regarding a request for a Letter of Map Revision (LOMR) for the area described above. Using the information submitted, we have determined that a revision to the flood hazards depicted in the Flood Insurance Study (FIS) report and/or National Flood Insurance Program (NFIP) map is warranted. This document revises the effective NFIP map, as indicated in the attached documentation. Please use the enclosed annotated map panels revised by this LOMR for floodplain management purposes and for all flood insurance policies and renewals in your community.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

Enclosures reflect changes to flooding sources affected by this revision.

* FIRM - Flood Insurance Rate Map; ** FBFM - Flood Boundary and Floodway Map; *** FHBM - Flood Hazard Boundary Map

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http://www.fema.gov/nfip.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER FLOODING SOURCES AFFECTED BY THIS REVISION

FLOODING SOURCE(S) & REVISED REACH(ES)

Howell Creek - from the confluence with Lake Howell to the boundary between Seminole and Orange Counties

	SUMMARY OF REVISIONS Effective Flooding Revised Flooding Increases Decreases					
Flooding Source	Effective Flooding	Revised Flooding	Increases	Decreases		
Howell Creek	BFEs*	BFEs	YES	NONE		
* BFEs - Base Flood Elevations						

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the

LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at

Luis Rodriguez, P.E., Chief Engineering Management Branch Federal Insurance and Mitigation Administration

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

OTHER COMMUNITIES AFFECTED BY THIS REVISION

CID Number:	120179	Name:	Orange County, Florida
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AF	FFECTED MAP PANELS		AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
		September 25, 2009 September 25, 2009	DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 25, 2009 PROFILE(S): 21P FLOODWAY DATA TABLE: 7 SUMMARY OF DISCHARGES TABLE: 4 STILLWATER ELEVATION TABLE: 5

CID Number: 120184 Name: City of Maitland, Florida

			•	,
	AFFECTED MAP	PANELS		AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM* TYPE: FIRM*	NO.: 12095C0165F NO.: 12095C0255F		September 25, 2009 September 25, 2009	DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 25, 2009 PROFILE(S): 21P, 42P, 68P FLOODWAY DATA TABLE: 7 SUMMARY OF DISCHARGES TABLE: 4 STILLWATER ELEVATION TABLE: 5

CID Number: 120186 Name: City of Orlando, Florida

AFFECTED MAP PANELS	AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
TYPE: FIRM* NO.: 12095C0255F DATE: September 25, 2009	DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 25, 2009 PROFILE(S): 43P FLOODWAY DATA TABLE: 7 SUMMARY OF DISCHARGES TABLE: 4 STILLWATER ELEVATION TABLE: 5

CID Number: 120188 **Name:** City of Winter Park, Florida

AFFECTED MAP PANE	LS	AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT
	TE: September 25, 2009 TE: September 25, 2009	DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 25, 2009 PROFILE(S): 43P, 21P FLOODWAY DATA TABLE: 7 SUMMARY OF DISCHARGES TABLE: 4 STILLWATER ELEVATION TABLE: 5

CID Number: 120291 Name: City of Casselberry, Florida

AFFECTED MAP PANELS AFFECTED PORTIONS OF THE FLOOD INSURANCE STUDY REPORT

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

TYPE: FIRM* NO.: 12117C0165F DATE: September 28, 2007

DATE OF EFFECTIVE FLOOD INSURANCE STUDY REPORT: September 28, 2007

PROFILE(S): 20P

FLOODWAY DATA TABLE: 5

SUMMARY OF DISCHARGES TABLE: 3

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.



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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

COMMUNITY INFORMATION

APPLICABLE NFIP REGULATIONS/COMMUNITY OBLIGATION

We have made this determination pursuant to Section 206 of the Flood Disaster Protection Act of 1973 (P.L. 93-234) and in accordance with the National Flood Insurance Act of 1968, as amended (Title XIII of the Housing and Urban Development Act of 1968, P.L. 90-448), 42 U.S.C. 4001-4128, and 44 CFR Part 65. Pursuant to Section 1361 of the National Flood Insurance Act of 1968, as amended, communities participating in the NFIP are required to adopt and enforce floodplain management regulations that meet or exceed NFIP criteria. These criteria, including adoption of the FIS report and FIRM, and the modifications made by this LOMR, are the minimum requirements for continued NFIP participation and do not supersede more stringent State/Commonwealth or local requirements to which the regulations apply.

We provide the floodway designation to your community as a tool to regulate floodplain development. Therefore, the floodway revision we have described in this letter, while acceptable to us, must also be acceptable to your community and adopted by appropriate community action, as specified in Paragraph 60.3(d) of the NFIP regulations.

COMMUNITY REMINDERS

We based this determination on the 1-percent-annual-chance discharges computed in the submitted hydrologic model. Future development of projects upstream could cause increased discharges, which could cause increased flood hazards. A comprehensive restudy of your community's flood hazards would consider the cumulative effects of development on discharges and could, therefore, indicate that greater flood hazards exist in this area.

Your community must regulate all proposed floodplain development and ensure that permits required by Federal and/or State/Commonwealth law have been obtained. State/Commonwealth or community officials, based on knowledge of local conditions and in the interest of safety, may set higher standards for construction or may limit development in floodplain areas. If your State/Commonwealth or community has adopted more restrictive or comprehensive floodplain management criteria, those criteria take precedence over the minimum NFIP requirements.

We will not print and distribute this LOMR to primary users, such as local insurance agents or mortgage lenders; instead, the community will serve as a repository for the new data. We encourage you to disseminate the information in this LOMR by preparing a news release for publication in your community's newspaper that describes the revision and explains how your community will provide the data and help interpret the NFIP maps. In that way, interested persons, such as property owners, insurance agents, and mortgage lenders, can benefit from the information.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.



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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

We have designated a Consultation Coordination Officer (CCO) to assist your community. The CCO will be the primary liaison between your community and FEMA. For information regarding your CCO, please contact:

Mr. Brad Loar
Director, Mitigation Division
Federal Emergency Management Agency, Region IV
Koger Center - Rutgers Building, 3003 Chamblee Tucker Road
Atlanta, GA 30341
(770) 220-5400

STATUS OF THE COMMUNITY NFIP MAPS

We will not physically revise and republish the FIRM and FIS report for your community to reflect the modifications made by this LOMR at this time. When changes to the previously cited FIRM panels and FIS report warrant physical revision and republication in the future, we will incorporate the modifications made by this LOMR at that time.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

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LETTER OF MAP REVISION DETERMINATION DOCUMENT (CONTINUED)

PUBLIC NOTIFICATION OF REVISION

A notice of changes will be published in the Federal Register. This information also will be published in your local newspaper on or about the dates listed below and through FEMA's Flood Hazard Mapping website at https://www.floodmaps.fema.gov/fhm/Scripts/bfe main.asp.

LOCAL NEWSPAPER Name: The Orlando Sentinel

Dates: October 31, 2013 and November 7, 2013

Within 90 days of the second publication in the local newspaper, a citizen may request that we reconsider this determination. Any request for reconsideration must be based on scientific or technical data. Therefore, this letter will be effective only after the 90-day appeal period has elapsed and we have resolved any appeals that we receive during this appeal period. Until this LOMR is effective, the revised BFEs presented in this LOMR may be changed.

This determination is based on the flood data presently available. The enclosed documents provide additional information regarding this determination. If you have any questions about this document, please contact the FEMA Map Information eXchange toll free at 1-877-336-2627 (1-877-FEMA MAP) or by letter addressed to the LOMC Clearinghouse, 847 South Pickett Street, Alexandria, VA 22304-4605. Additional Information about the NFIP is available on our website at http://www.fema.gov/nfip.

TABLE 3. SUMMARY OF DISCHARGES - continued

	DRAINAGE	PEAK DISCHARGES (cfs)				
FLOODING SOURCE AND LOCATION	AREA (sq. mi.)	10-percent	2-percent	1-percent	0.2-percent	
GRASSY LAKE DRAINAGE CHANNEL						
TO TRIPLET LAKE						
At Sunset Drive	1.6	93	145	179	289	
At U.S. Route 17-92	1.4	28	41	46	56	
HOWELLCREEK						
At Lake Jesup	27.2	2,080	4,630	6,420	12,140	
At State Route 419	26.4	2,030	4,500	6,240	11,750	
At Cross Section G	23.5	680	1,410	2,110	3,880	
At Lake Howell	30.4	538	990	945	1,540	
LITTLE ECONLOCKHATCHEE RIVER	"					
At Lockwood Road	*	3,250	*	6,440	*	
At State Route 520	*	4,760	*	8,520	*	
At Orange County boundary	*	4,720	*	8,360	*	
LITTLE HOWELL CREEK						
At mouth	2.4	450	1,150	1,370	3,110	
LITTLE WEKIVA RIVER						
At State Route 434	33.8	920	1,500	1,800	2,580	
At Montgomery Road	31.1	780	1,280	1,520	2,070	
At CSX Transportation	27.6	700	1,140	1,370	1,830	
	25.4					
At State Route 431		550	880	1,050	1,610	
SIX MILE CREEK	4.5					
At Lake Jesup		430	780	950	1,530	
SIX MILE CREEK TRIBUTARY	2.4					
At mouth		230	480	560	820	

^{*} Data not available

Revised Data

REVISED TO REFLECT LOMR EFFECTIVE: March 7, 2014

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FLOODING	SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD88)			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE	
Howell Creek									
A B C D E F G H I J K L	3,960 5,200 7,250 9,600 13,200 15,600 19,000 19,450 24,800 27,100 31,250 36,400	600 314 239 158 108 67 131 200 85 57 65 222	2,600 1,195 1,938 1,520 597 380 950 610 400 450 520 610	1.1 5.4 3.2 1.5 3.8 6.0 2.4 3.4 2.2 2.7 2.3 2.0	8.7 13.4 15.7 17.6 18.2 24.3 30.8 31.6 42.4 42.6 50.7 55.5	8.5 ² 13.4 15.7 17.6 18.2 24.3 30.8 31.6 42.4 42.6 50.7 55.5	8.9 14.1 16.5 18.2 18.8 24.8 31.8 32.5 42.6 43.4 50.8 55.5	0.4 0.7 0.8 0.6 0.5 1.0 0.9 0.2 0.8 0.1 0.0	
O*			Revised Data						

REVISED TO REFLECT LOMR

EFFECTIVE: March 7, 2014

FEDERAL EMERGENCY MANAGEMENT AGENCY

SEMINOLE COUNTY, FL AND INCORPORATED AREAS **FLOODWAY DATA**

HOWELL CREEK

TABLE

¹ Feet above mouth ² Elevation computed without consideration of backwater effects from Lake Jesup

^{*} Data revised based on a Link-Node model

FLOODING SOURCE FLOODWAY ¹			Y ¹	BASE FLOOD WATER SURFACE ELEVATION (FEET NAVD)					
NODES	LINK	DISTANCE ²	WIDTH (FEET)	PEAK FLOW (CFS)	VELOCTIY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY	WITH FLOODWAY	INCREASE
Howell	Creek								
M		50,075				56.6	56.6	56.7	0.1
	M-N		104	950	4.6				
Ν		50,489				59.5	59.5	59.5	0.0
0		50,889				60.2	60.2	60.2	0.0
	O-P		125	940	4.3				
Р		51,365				61.7	61.7	61.8	0.1
¹ Values re	present max	kimun along link					REV	ISED TO	

² Feet above mouth

Revised Data/

REFLECT LOMR

EFFECTIVE: March 7, 2014

TABLE

FEDERAL EMERGENCY MANAGEMENT AGENCY

SEMINOLE COUNTY, FL AND INCORPORATED AREAS **FLOODWAY DATA**

HOWELL CREEK





