ENG-SF21021-R3-FDR.pdf Markup Summary



20(1)

20 (1)		
Animality 500 feet north of the Need Need Oreasing, channel at al DBHs sugment 323. Shadh, flow data consequenting to in the DBH sugment 324. Shadh, flow data consequenting to in the DBH sugment and the State of the DBH sugment and the DBH sugment and the State of the DBH sugment and RES sound for RESA, and Example Share.	Subject: Callout Page Index: 20 Date: 3/7/2022 12:33:25 PM Author: CDurham Color: Layer: Space: Page Label: 20	RAS model in appendix only shows 100-year for FEMA and DBPS flows.
22 (1)		
structed with Hing to 1 located a sheet pile check struct to 6400. The channel impresented proposed within Hings from the structure of the st	Subject: Callout Page Index: 22 Date: 3/7/2022 12:35:42 PM Author: CDurham Color: Layer: Space: Page Label: 22	Provide calculations for riprap stabilization in appendix
25 (1)		
• (WCCV): Runoff from this development will be use of the WCV and excess unknammed? Johanne permanent Extended Detection Bacin designed enal biotechnological and the second second permanent Extended Detection and the second permanent Extension and exclusion areas merciel BMPs, in constraint or commercial uses Network, a title specific; score water quility and en submitted and enclusion areas merciel BMPs, in quilt his perside and enclusion and enclusions and enclusion areas	Subject: Engineer Page Index: 25 Date: 2/16/2022 4:13:02 PM Author: dotprete Color: Layer: Space: Page Label: 25	add runoff reduction. Update proposed conditions text to include runoff reduction and exclusion areas
112 (1)		
8.54 19.22 11.33 1.66 Supervision [19.00] 5.46 6.60 14.23 4.00 Supervision [10.00] Will meet to subant division request for success vehiculty within secons ppr (ECM 3.51.2.4) Road with complexity (Characterian) Road within the complexity (Characterian)	Subject: Text Box Page Index: 112 Date: 3/7/2022 12:45:20 PM Author: CDurham Color: Layer: Space: Page Label: 112	Will need to submit deviation request for excess velocity within storm pipe (ECM 3.3.1.J.8)
133 (1)		
CDs blog slope at a 1255	Subject: Callout Page Index: 133 Date: 3/3/2022 5:21:30 PM Author: CDurham Color: Layer: Space: Page Label: 133	CD's show slope of trickle channel as 1.3%
135 (24)		



Subject: Polygon Page Index: 135 Date: 2/16/2022 9:34:40 AM Author: dotprete Color: Layer: Space: Page Label: [1] Model



Subject: Polygon Page Index: 135 Date: 2/16/2022 9:34:21 AM Author: dotprete Color: Layer: Space: Page Label: [1] Model



Subject: Polygon Page Index: 135 Date: 2/16/2022 9:34:35 AM Author: dotprete Color: Layer: Space: Page Label: [1] Model



Subject: Engineer Page Index: 135 Date: 2/16/2022 9:35:39 AM Author: dotprete Color: ■ Layer: Space: Page Label: [1] Model

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UIA



Subject: Engineer Page Index: 135 Date: 2/16/2022 10:13:37 AM Author: dotprete Color: ■ Layer: Space: Page Label: [1] Model

RPA



Subject: Polygon Page Index: 135 Date: 2/16/2022 10:12:06 AM Author: dotprete Color: Layer: Space: Page Label: [1] Model



Subject: Engineer Page Index: 135 Date: 2/16/2022 3:38:39 PM Author: dotprete Color: ■ Layer: Space: Page Label: [1] Model

Change color and add to legend. This area qualifies for Exclusion E - Large Lot Single Family (see PBMP Form)

......



Subject: Engineer Page Index: 135 Date: 2/16/2022 3:37:43 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model

Change color and add to legend. This area qualifies for Exclusion H - Stream Stabilization (see PBMP Form)



Subject: Polygon Page Index: 135 Date: 2/16/2022 3:36:00 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model

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Subject: Polygon Page Index: 135 Date: 2/16/2022 3:38:24 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model



Subject: Polygon Page Index: 135 Date: 2/16/2022 3:39:57 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model

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Provide calculations



Subject: Engineer Page Index: 135 Date: 2/16/2022 4:05:57 PM Author: dotprete Color: ■ Layer: Space: Page Label: [1] Model



Subject: Engineer Page Index: 135 Date: 2/16/2022 3:40:48 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model

RPA



Subject: Polygon Page Index: 135 Date: 2/16/2022 3:43:00 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model



Subject: Engineer Page Index: 135 Date: 2/16/2022 3:41:26 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model

RPA



Subject: Engineer Page Index: 135 Date: 2/16/2022 3:43:44 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model

This area should be pink for runoff reduction. Provide calculations

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Subject: Polygon Page Index: 135 Date: 2/16/2022 3:43:09 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model



Subject: Line Page Index: 135 Date: 2/16/2022 4:01:35 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model



Subject: Line Page Index: 135 Date: 2/16/2022 4:01:49 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model

REAL TRANS OF TRANSPORT	Subject: Line Page Index: 135 Date: 2/16/2022 4:01:54 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model	
AFEA TREATED IN DRIVING PERMINIST FORD 2 FACITY AFEA TREATED IN TRAVE OUTREATED IN TRAVERSITY OUTREATED IN TRAVERSITY AFEA TREATED IN TRAVERSITY	Subject: Line Page Index: 135 Date: 2/16/2022 4:02:14 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model	
Adds. TREAT D & D Schnol Adds. TREAT D & D School Adds. TREAT Proto 2 School Adds. Add School 2 School Add School 2 School 2 School 2 School 2 School Add School 2 School	Subject: Line Page Index: 135 Date: 2/16/2022 4:02:17 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model	
AREA TRACIED IN DESTING PERMANENT FORD 2 FACULTY AREA OLICIANTED TO HAVE OLICIANTED TO HAVE OLICIANTED TO HAVE OLIVIENTE HAVE AREA TRACING AND THE AREA BOOM TO AND THE AREA BOOM TO AND THE AREA TO AND THE AREA TO AND THE A	Subject: Line Page Index: 135 Date: 2/16/2022 4:02:21 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model	
Areas of runoff reduction water quality treatment	Subject: Engineer Page Index: 135 Date: 2/16/2022 4:03:52 PM Author: dotprete Color: Layer: Space: Page Label: [1] Model	Areas of runoff reduction water quality treatment

136 (8)



Subject: Engineer Page Index: 136 Date: 2/16/2022 9:15:22 AM Author: dotprete Color: ■ Layer: Space: Page Label: 136

provide a figure showing all proposed UIA and RPA areas to be utilized for runoff reduction. All RPA areas will need to be within a no build/drainage easement and discussed in the maintenance agreement and O&M Manual. Unresolved.

	Subject: Engineer Page Index: 136 Date: 2/16/2022 3:45:40 PM Author: dotprete Color: ■ Layer: Space: Page Label: 136	Please show on figure 60' interface (i.e. drainage way) See WQ Treatment Plan markups
	Subject: Engineer Page Index: 136 Date: 2/16/2022 3:46:31 PM Author: dotprete Color: ■ Layer: Space: Page Label: 136	houses (for large lots >2.5ac) and yards do not need to be included in calculations
	Subject: Engineer Page Index: 136 Date: 2/16/2022 3:31:45 PM Author: dotprete Color: ■ Layer: Space: Page Label: 136	break up into two roadway sections
Note, all RPA areas should be within a drainage or no build easement.	Subject: Engineer Page Index: 136 Date: 2/16/2022 3:52:34 PM Author: dotprete Color: Layer: Space: Page Label: 136	Note. all RPA areas should be within a drainage or no build easement.
	Subject: Line Page Index: 136 Date: 2/16/2022 3:47:17 PM Author: dotprete Color: Layer: Space: Page Label: 136	
Band Phalacing Shart, 4. 1.6. Desker (b) Vigourable Duck Image: Display to the state of the st	Subject: Line Page Index: 136 Date: 2/16/2022 3:47:21 PM Author: dotprete Color: Layer: Space: Page Label: 136	

The second secon

137 (2)

Subject: Engineer Page Index: 136 Date: 2/16/2022 3:52:20 PM Author: dotprete Color: ■ Layer: Space: Page Label: 136

Subject: Engineer

Date: 2/16/2022 3:48:31 PM

Page Index: 137

Author: dotprete Color: Layer: Space:

Page Label: 137

to reduce the no build easement areas on private property, only 60% of the WQCV needs to be treated to meet runoff reduction standards.

Lots 6, 8, and 9 are part of Exclusion E and do not need runoff reduction calculations.

Subject: Line Page Index: 137 Date: 2/16/2022 3:50:26 PM Author: dotprete Color: Layer: Space: Page Label: 137

138 (2)



Subject: Engineer Page Index: 138 Date: 2/16/2022 3:50:12 PM Author: dotprete Color: ■ Layer: Space: Page Label: 138

In reduces the no build assement interaction of private property, only 60% of the WCCV needs to be traded to meet running fractions and markets. Subject: Engineer Page Index: 138 Date: 2/16/2022 3:51:57 PM Author: dotprete Color: ■ Layer: Space: Page Label: 138 add a columns for basins W and V

to reduce the no build easement areas on private property, only 60% of the WQCV needs to be treated to meet runoff reduction standards.

139 (1)



Subject: Engineer Page Index: 139 Date: 2/16/2022 3:55:04 PM Author: dotprete Color: ■ Layer: Space: Page Label: 139

As long as the area ID is by basin, all calculations can be shown on 1 sheet, with a separate column for each basin

154 (1)		
Storage Include calculations for T-batfle in forebay	Subject: Text Box Page Index: 154 Date: 3/3/2022 5:23:04 PM Author: CDurham Color: Layer: Space: Page Label: 154	Include calculations for T-baffle in forebay
160 (2)		
Include design for calculation for accept of rights for lands protection	Subject: Text Box Page Index: 160 Date: 3/7/2022 8:32:27 AM Author: CDurham Color: Layer: Space: Page Label: 160	Include design for calculation for sizing of riprap for bank protection
Include design for secondary bypass channel for wetands and discusts in report	Subject: Text Box Page Index: 160 Date: 3/7/2022 8:32:34 AM Author: CDurham Color: Layer: Space: Page Label: 160	Include design for secondary bypass channel for wetlands and discuss in report
161 (6)		
	Subject: Highlight Page Index: 161 Date: 3/8/2022 5:41:52 PM Author: CDurham Color: Layer: Space: Page Label: [1] CHANNEL STATIONS	
	Subject: Callout Page Index: 161 Date: 3/7/2022 8:56:01 AM Author: CDurham Color: Layer: Space: Page Label: [1] CHANNEL STATIONS	Missing proposed check structure
Protocol and the second s	Subject: Callout Page Index: 161 Date: 3/7/2022 9:43:03 AM Author: CDurham Color: Layer: Space: Page Label: [1] CHANNEL STATIONS	Per CD's, this structure no longer being constructed



Subject: Highlight Page Index: 161 Date: 3/8/2022 5:41:52 PM Author: CDurham Color: Layer: Space: Page Label: [1] CHANNEL STATIONS



Subject: Callout Page Index: 161 Date: 3/7/2022 9:44:24 AM Author: CDurham Color: Layer: Space: Page Label: [1] CHANNEL STATIONS

Per CD's location of proposed check structure



Subject: Text Box Page Index: 161 Date: 3/7/2022 9:47:22 AM Author: CDurham Color: Layer: Space: Page Label: [1] CHANNEL STATIONS

Provide centerline profile of channel

203 (1)



Subject: Callout Page Index: 203 Date: 3/7/2022 10:23:06 AM Author: CDurham Color: Layer: Space: Page Label: [1] Layout1

Flow does not match plan or text - revise accordingly

204 (4)



Subject: Callout Page Index: 204 Date: 3/7/2022 10:35:40 AM Author: CDurham Color: Layer: Space: Page Label: [1] Layout1

Provide calculations in appendix for sizing rocks/riprap in check dams

Label riprap protection



Subject: Callout Page Index: 204 Date: 3/7/2022 10:36:19 AM Author: CDurham Color: Layer: Space: Page Label: [1] Layout1



Subject: Callout Page Index: 204 Date: 3/7/2022 10:45:13 AM Author: CDurham Color: Layer: Space: Page Label: [1] Layout1

Show FEMA Base flood elevations



Subject: Text Box Page Index: 204 Date: 3/7/2022 10:47:12 AM Author: CDurham Color: Layer: Space: Page Label: [1] Layout1

205 (1)



Subject: Text Box Page Index: 205 Date: 3/7/2022 10:48:55 AM Author: CDurham Color: Layer: Space: Page Label: [1] Layout2 Indicate whether all proposed storm facilities are private or public

Indicate whether all proposed storm facilities are private or public