

P.O. Box 142 Penn Laird, VA 22846 · (540) 908-1679 · www.VirginiaNutrientBank.com

February 17, 2017

Josh MacDonald, EIT Parker Design Group, Inc. 2122 Carolina Avenue, SW Roanoke, Virginia 24014

Re: Nutrient Credit Availability - Kennedy Shores Subdivision - Union Hall - Franklin County

Mr. MacDonald,

The Virginia Nutrient Bank (VNB) is pleased to reserve approximately <u>8.29±</u> pounds per year of phosphorus offsets (nutrient credits) for the Kennedy Shores Subdivision site plan project in the Union Hall area in Franklin County.

VNB has approval from the Virginia Department of Environmental Quality (VDEQ) for Nonpoint Source Offset Generation Certification. VNB is approved to transfer nutrient credits in accordance with the Chesapeake Bay Watershed Nutrient Credit Exchange Program (VA Code 62.1-44.19:14 et seq). These offsets are also transferable in accordance with the Virginia stormwater offset program (VA Code 62.1-44.15:35) and the Virginia Soil and Water Conservation Board's Guidance Document on Stormwater Nonpoint Nutrient Offsets approved on July 23, 2009, to those regulator entities qualifying for nutrient offsets.

VNB is brokering the Glade Hill Nutrient Bank (12 digit HUC: 030101010802, Pigg River-Powder Mill Creek) within the Roanoke River Basin located in Franklin County that is approved to generate roughly 58 pounds of phosphorus reduction and roughly 276 pounds of nitrogen reduction per year by the DEQ. Upon final approval and closing, VNB will retire 8.29± pounds of phosphorus credits and corresponding nitrogen credits from the Glade Hill Nutrient Bank in accordance with the Nutrient Offset Certification regulations.

Respectfully, Virginia Nutrient Bank, LLC

And by Man

Nathan W. Blackwell, PE 540-908-1679 Owner - Conservation Director

parker PDESIGN GROUP

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Roanoke, VA 24014
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ENGINEERING | SURVEYING | STORMWATER SERVICES

February 17, 2017

Franklin County Planning Department 1255 Franklin Street, Suite 103 Rocky Mount, VA 24151

Re: No-Rise Certification Letter – Kennedy Shores Site Plan PDG WO #16-0047 Plan #15517

To whom it may concern:

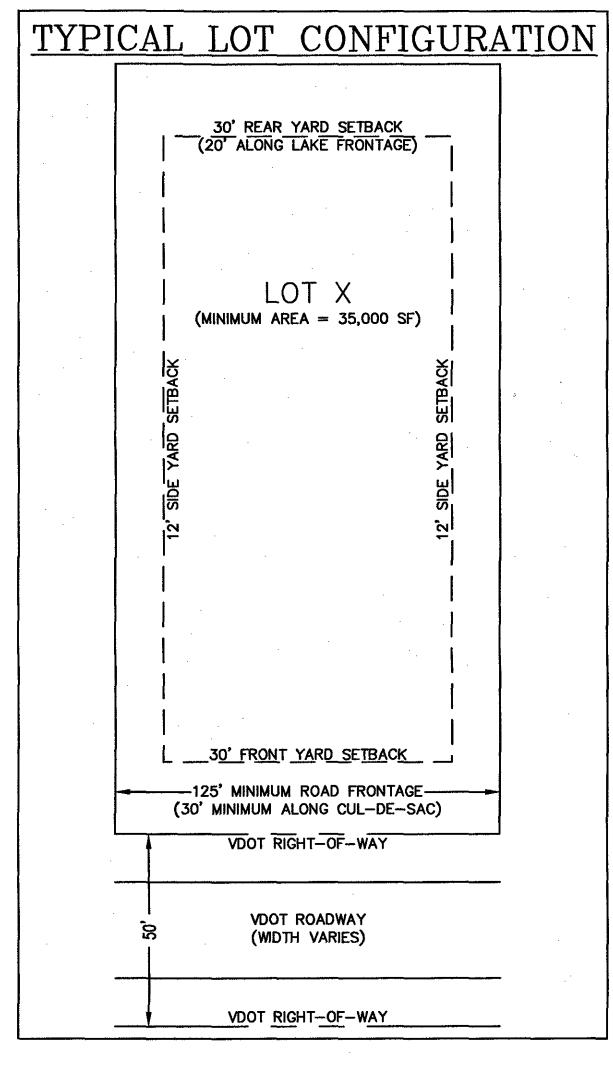
As part of the Kennedy Shores Site Plan, stormwater outfall channels are being directed to Smith Mountain Lake. With a floodplain elevation of 802.70, this letter certifies that no fill will be placed below the 802.70, and that no rise of the floodplain elevation at Smith Mountain Lake will occur.

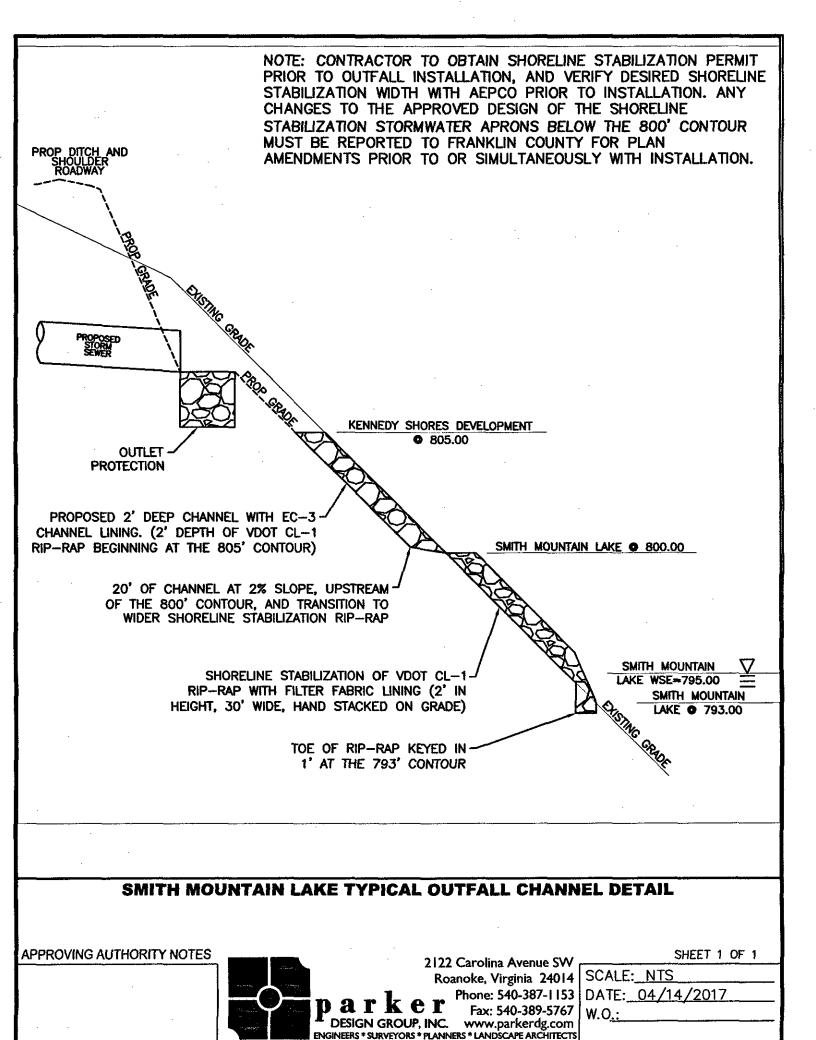
Sincerely,

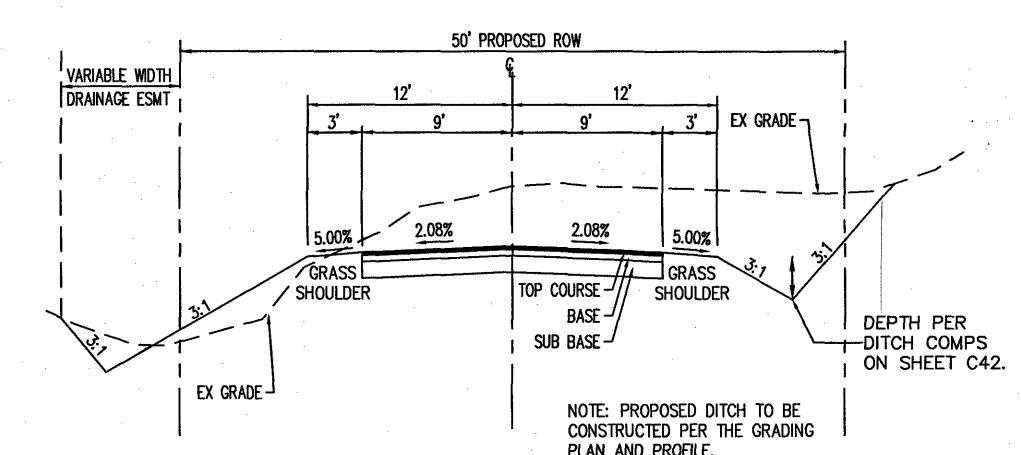
Parker Design Group

Sim Water

Simon L. Rutrough, P.E. Project Engineer



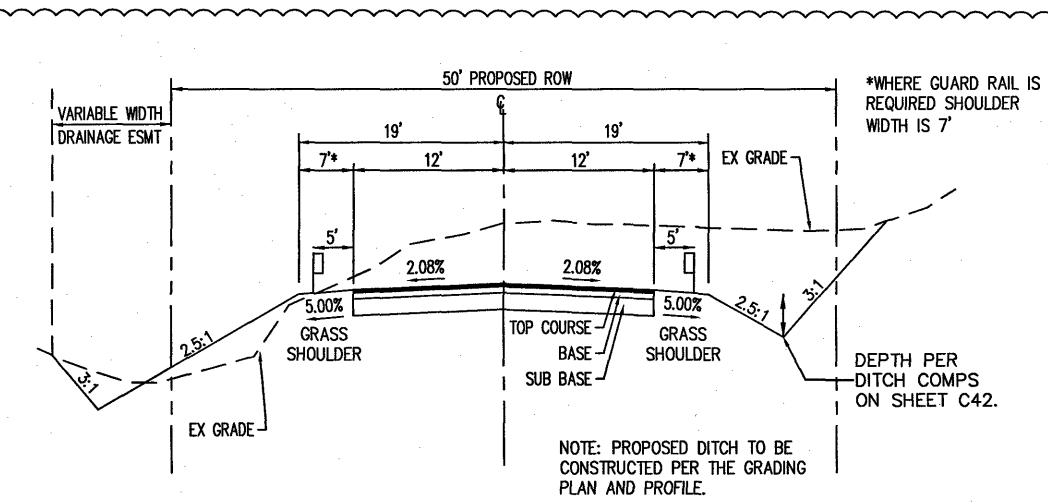




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STREET NAME	VPD	DESIGN SPEED	ROADWAY CLASSIFICATION	TOP COURSE	INTERMEDIATE COURSE	BASE	
JFK BOULEVARD 15+50 — END	180	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21-A	
CONGRESSIONAL WAY 12+00 - 14+00	340	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21—A	
CONGRESSIONAL WAY 17+25 — END	340	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21-A	
KENNEDY PLACE	60	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8* 21-A	
HYANNIS POINT	390	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21-A	
PENNSYLVANIA AVENUE	80	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21-A	
CAROLINE COURT	160	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21-A	

NOTE: PAVEMENT SECTION IS BASED ON A CBR VALUE OF 6. FINAL PAVEMENT SECTION TO BE DETERMINED BY FIELD RUN CBR TESTS. CONTRACTOR TO USE PROPOSED PAVEMENT SECTIONS FOR BIDDING PURPOSES AT THEIR OWN RISK.

TYPICAL PUBLIC ROAD CROSS-SECTION (NOT TO SCALE)



STREET NAME	VPD	DESIGN SPEED	ROADWAY CLASSIFICATION	TOP COURSE	INTERMEDIATE COURSE	BASE
JFK BOULEVARD 10+00 - 15+50	530	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21-/
CONGRESSIONAL WAY 10+00 - 12+00	530	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21-4
CONGRESSIONAL WAY 14+00 - 17+25	530	25 MPH	SUBDIVISION DITCH AND SHOULDER (SSAR)	1.5" SM-9.5A	3" IM-19.0A	8" 21 <i>-</i> /

NOTE: PAVEMENT SECTION IS BASED ON A CBR VALUE OF 6. FINAL PAVEMENT SECTION TO BE DETERMINED BY FIELD RUN CBR TESTS. CONTRACTOR TO USE PROPOSED PAVEMENT SECTIONS FOR BIDDING PURPOSES AT THEIR OWN RISK.

TYPICAL ROAD CROSS SECTION WITH GUARD RAIL PROVIDED

(NOT TO SCALE)

FR #2



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SHELDON R. BOWER Lic. No. 039439 A. 08/25/2017

Y SHORES
MENT PLAN
Tax # 0510001500

KENNEDY SHO Subdivision Development

REVISIONS:

2/10/2017 - 1ST SUB COMME

3/21/2017 - 2ND SUB COMME

4/14/2017 - 3RD SUB COMME

6/23/2017 - FIELD REVISIOI

7/6/2017 - FIELD REVISIOI

8/4/2017 - FIELD REVISIOI

8/9/2017 - FIELD REVISIOI

8/25/2017 - FIELD REVISION

DESIGNED BY: JMM/SRB
DRAWN BY: JMM/JLK
CHECKED BY: SRB

DATE:

6 JANUARY, 2017
SHEET TITLE:
SITE DETAILS

SCALE: AS SHOWN SHEET NO.

C02