STAMSKI AND MCNARY, INC.
1000 Main Street
Acton, Massachusetts 01720
(978) 263-8585
FAX (978) 263-9883

WILLIAM F. MCNARY, P.L.S.
JOSEPH MARCH, P.E., P.L.S.

September 21, 2011

Acton Conservation Commission
472 Main Street
Acton, MA 01720

RE: 263-265 Great Road
ANRAD

Dear Members of the Commission,

In response to questions raised during the site walk for the referenced project we offer the following:

The delineated area is an isolated Vegetated Wetland under the definition of wetland in the Wetland Bylaw under section F3.15 1). Data forms are attached.

The depression does not hold ¼ acre feet of water, therefore it does not qualify as Isolated Land Subject to Flooding under 310 CMR 10.57(2)(b) (see attached calculations).

Since the area does not border on any water body it is not Bordering Vegetated Wetland under 310 CMR 10.55.

The area is not a certified Vernal Pool and there is no evidence that it meets the criteria established in the Guidelines for Certification of Vernal Pool Habitat published by the Massachusetts Division of Fisheries and Wildlife. Furthermore, the owners of the property, upon which the confined basin exists, have not and do not grant permission for any such evaluation.

Please do not hesitate to call with any additional questions.

Respectfully,

Stamski and McNary, Inc.

George Dimakarakos, P.E.

DEP Bordering Vegetated Wetland (310 CMR 10.55) Delineation Field Data Form

Applicant: _____ Prepared by: B & C Associates Inc. Project location: 263 & 265 Great Road, Acton DEP File #: _____

Check all that apply:

☐ Vegetation alone presumed adequate to delineate BVW boundary: fill out Section I only

■ Vegetation and other indicators of hydrology used to delineate BVW boundary: fill out Sections I and II

☐ Method other than dominance test used (attach additional information)

Section I. Vegetation Observation Plot Number: 1 Transect Number: A Date of Delineation: 9/19/11

A. Sample Layer and Plant Species (by common/scientific name)			B. Percent Cover (or basal area)	C. Percent Dominance	D. Dominant Plant (yes or no)	E. Wetland Indicator Category *	
Herbaceous:	Sensitive Fern	*Onoclea sensibilis*	10.5	19%	Yes	FACW	*
	Royal Fern	*Osmunda regalis*	10.5	19%	Yes	OBL	*
	Upright Woodsorrell	*Oxalis stricta*	10.5	19%	Yes	UPL	
	Swamp Dewberry	*Rubus hispidus*	10.5	19%	Yes	FACW	*
	Upland Grasses	*Graminae sp.*	3.0	6%	No	UPL	
	Bugleweed	*Lycopus virginicus*	3.0	6%	No	OBL	*
	Woodbine	*Parthenocissus quinquefolia*	3.0	6%	No	FACU	
	Meadow Spikemoss	*Selaginella apoda*	3.0/54.0	6%	No	FACW	*
Shrubs:	European Buckthorn	*Rhamnus frangula*	10.5	54%	Yes	FAC	*
	Tartarian Honeysuckle	*Lonicera tatarica*	3.0	15%	No	FACU+	
	Old Field Raspberry	*Rubus alumnus*	3.0	15%	No	FACU-	
	Multiflora Rose	*Rosa multiflora*	3.0/19.5	15%	No	FACU	
Saplings:	None						
Lianas:	Oriental Bittersweet	*Celastrus orbiculatus*	20.5	60%	Yes	UPL	
	New England Grape	*Vitis novae-angliae*	10.5	31%	Yes	NI	
	Woodbine	*Parthenocissus quinquefolia*	3.0/34.0	9%	No	FACU	
Overstory:	Red Maple	*Acer rubrum*	2044.8	98%	Yes	FAC	*
	American Elm	*Ulmus americana*	32.9/2077.7	2%	No	FACW-	*

* Use an asterisk to mark wetland indicator plants: plant species listed in the Wetlands Protection Act (MGL c.131, s.40); plants in the genus *Sphagnum*; plants listed as FAC, FAC+, FACW-, FACW, FACW+, or OBL; or plants with physiological or morphological adaptations. If any plants are identified as wetland indicator plants due to physiological or morphological adaptations, describe the adaptation next to the asterisk.

Vegetation conclusion:

Number of dominant wetland indicator plants: 5 Number of dominant non-wetland Indicator plant: 2

Is the number of dominant wetland plants equal to or greater than the number of dominant non-wetland plants? YES

Section II. Indicators of Hydrology
Hydric Soil Interpretation

1. Soil Survey

Is there a published soil survey for this site? YES

title/date: Middlesex County 2/26/2010

map number: 1

soil type mapped: Hinckley loamy sand

hydric soil inclusions:

Are field observations consistent with soil survey? YES

Remarks:

2. Soil Description

Horizon	Depth	Matrix Color	Mottles Color
A	0-10″	10 YR 2/2	
B	10-17″	10 YR 4/3	

Remarks: Sample located within lowest elevation of depression which is approximately 35-40′ from flag A-4

3. Other:

Conclusion: Is soil hydric? NO

Other Indicators of Hydrology: (check all that apply and describe)

☐ Site inundated: _____

■ Depth to free water in observation hole: 16″

■ Depth to soil saturation in observation hole: 0″

☐ Water marks: _____

☐ Drift lines: _____

☐ Sediment deposits: _____

☐ Drainage patterns in BVW: _____

☐ Oxidized rhizospheres: _____

■ Water-stained leaves: _____

☐ Recorded data (stream. lake. or tidal gauge; aerial photo; other): _____

☐ Other: _____

Vegetation and Hydrology Conclusion

	Yes	No
Number of wetland indicator plants ≥ number of non-wetland indicator plants	■	☐
Wetland hydrology present: hydric soil present	☐	■
other indicators of hydrology present	■	☐
Sample location is in a BVW	☐	■

Submit this form with the Request for Determination of Applicability or Notice of Intent

STAMSKI AND McNARY, INC.
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JOB 4810

SHEET NO. _____ OF _____

CALCULATED BY GD DATE 9/21/11

CHECKED BY _____ DATE _____

SCALE _____

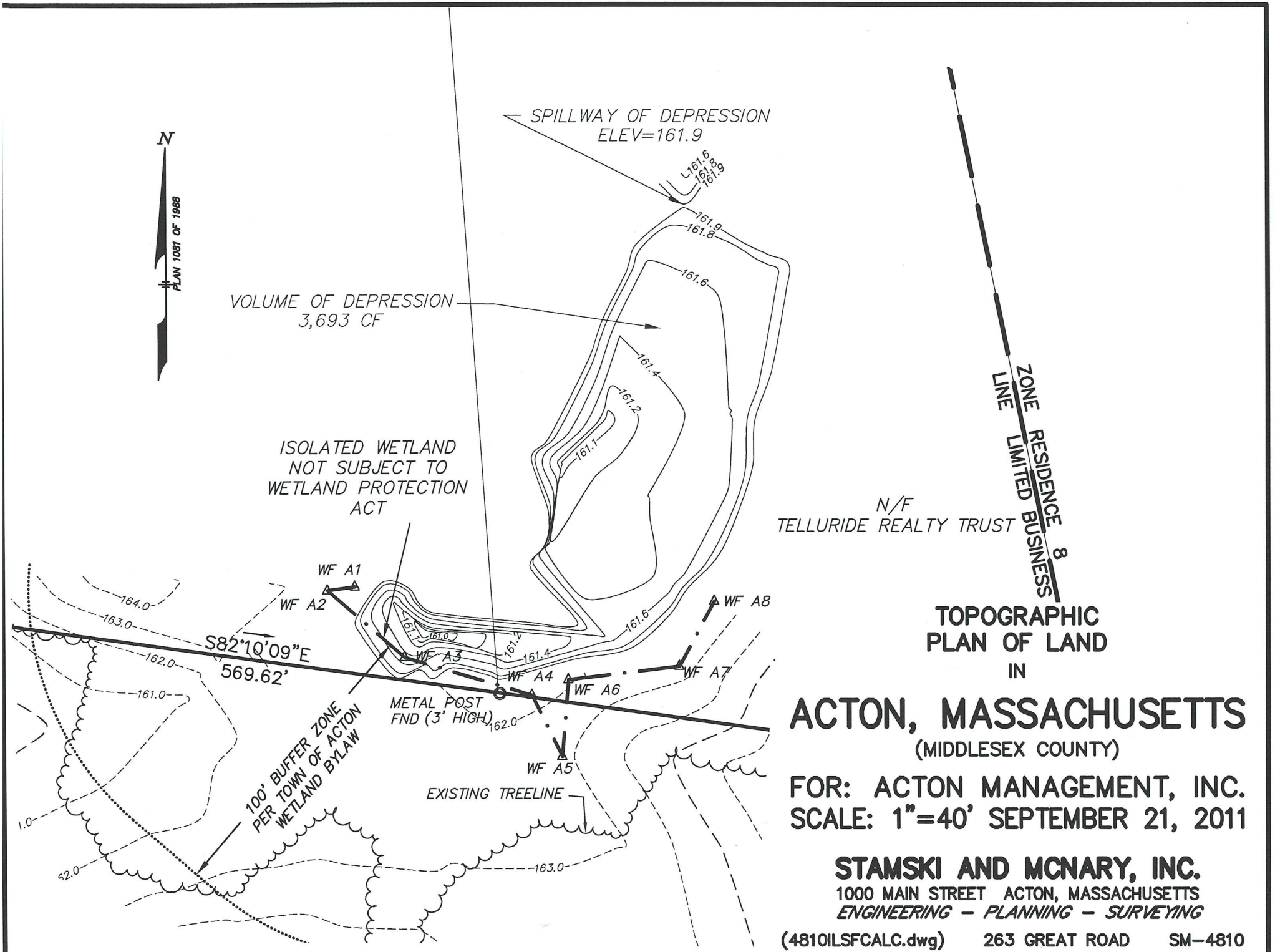
ILSF CALCULATION

263-265 GREAT RD., ACTON, MA

ELEV	CONT. AREA (SF)	ΔV (FT)	CUM. VOL (CF)
160.9	0		
		0.1	1
161.0	29		
		0.1	11
161.1	182		
		0.1	48
161.2	773		
		0.2	374
161.4	2,971		
		0.2	913
161.6	6,163		
		0.2	1,458
161.8	8,418		
		0.1	888
161.9	9,339		Σ = 3,693 CF

¼ Ac. FT = 10,890 CF > 3,693 CF

∴ THIS AREA IS NOT I.L.S.F.



TOPOGRAPHIC PLAN OF LAND

IN

ACTON, MASSACHUSETTS

(MIDDLESEX COUNTY)

FOR: ACTON MANAGEMENT, INC.

SCALE: 1"=40' SEPTEMBER 21, 2011

STAMSKI AND MCNARY, INC.

1000 MAIN STREET ACTON, MASSACHUSETTS

ENGINEERING – PLANNING – SURVEYING

(4810ILSFCALC.dwg) 263 GREAT ROAD SM–4810