

Table LFM-3 (REVISED June 4, 2012; updates Table 10-12): Comparison of Proposed Action (4.8-Acre Minimal ROW Expansion) and 11-Acre ROW Expansion Option

Factor	Segment 1		Segment 2	
	11-Acre ROW Expansion Option	Proposed Action	11-Acre ROW Expansion Option	Proposed Action
Location, Design, and Appearance				
Length (miles)	1.0 (0.9 mile federal land)	1.0 (0.9 mile federal land)	0.5	0.5
New ROW Required (approx. acres)	5.8 acres	2.6 acres	5.2 acres	2.2 acres
Structure Height Range (feet) (Existing 330 Line Structure Height Ranges = 106-137 feet Segment 1; 68-81 feet Segment 2)	115-145	125-155	70-85	115-135
Environmental Resources				
Water Resources				
Waterbody crossings (number)	1 (Mansfield Hollow Lake)	1 (Mansfield Hollow Lake)	3 Natchaug River (S20-22); S20-23; S20-24	2 Natchaug River (S20-22); S20-24
Wetlands, Temporary Effects (acres)	0	0	0.4 acre	0.3 acre
Wetlands, Permanent Effects (fill) (acres)	0	0	< 0.1 acre	<0.1 acre
Vegetation				
Wetlands, Forested Vegetation Removal (acres)	<0.1 acre	0	2.5 acres	1.3 acres
Wetlands, Scrub-Shrub Vegetation Potentially Affected (acres)	0	0	0.8 acre	0.8 acre
Upland Forested Vegetation Removal (acres)	6.0 acres	3.7 acres	4.1 acres	2.1 acres
Upland Scrub-Shrub Vegetation Potentially Affected (acres)	2.6 acres	2.6 acres	1.4 acres	1.4 acres
Open Field Upland Vegetation Potentially Affected (acres)	1.6 acres	1.2 acres	0	0
Subtotal: Vegetation	10.2 acres	7.5 acres	8.8 acres	5.6 acres
Biological Resources				
Vernal Pools Potentially Affected	0	0	2 (CH-1-VP, CH-2-VP)	2 (CH-1-VP, CH-2-VP)
State-listed Species Habitat Traversed	1	1	1	1
Visual Resources				
Difference in existing and proposed structure heights (feet)	7 feet shorter to 24 feet taller	7 feet shorter to 43 feet taller	13 shorter to 13 feet taller	27 to 59 feet taller

Notes: Totals not exact due to rounding; acreages approximate based on preliminary survey information and may change based on final survey and easement agreement with USACE. Potential environmental effects are estimated based on preliminary locations of structures, work pads, and access roads, as well as on estimated vegetation removal limits and the use of standard-sized access roads and work pads. Vegetation types were determined by land use data and delineated wetland boundaries. Both the Proposed Action and the 11-Acre ROW Expansion Option impact analyses assume that the existing 330 Line is left in place; that the forested areas south of Line 330 (totaling approximately 3.5 acres) would not be affected; and that managed portions ROW north of the existing 330 Line would be affected by construction activities.

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Table LFM-4 (REVISED June 4, 2012): Summary of Environmental Impacts 4.8-Acre Minimal ROW Expansion

ENVIRONMENTAL FEATURE	POTENTIAL ENVIRONMENTAL EFFECTS, BY SEGMENT		TOTAL
	1	2	
Location, Design, and Appearance			
ROW Length (miles)	1.0 (0.9 federal property)	0.5	1.5
ROW Expansion Width (feet)	25	35	-
ROW Expansion (approximate acres)	2.6	2.2	4.8
Structure Height Range (feet)	125-155	115-135	
Environmental Resources			
Water Resources			
Waterbody Crossings (number)	1 span Mansfield Hollow Lake	2 Natchaug River (S20-22); S20-24; 1 temporary culvert (S20-24)	3 (2 spans, 1 temporary culvert)
Wetlands			
Number Affected	1 (W20-66, Mansfield Hollow Lake border, tree trimming or removal)	6 (W20-70, W20-72/73, W20-74, W20-75, W20-76, W20-77)	7
Wetlands, Temporary Effects (estimated acres)	0	0.8 acre	0.8 acre
Wetlands, Permanent Fill Effects (estimated acres)	0	<0.1 acre	<0.1 acre
Vegetation			
Forested Upland Vegetation Removal (Permanent)	3.7 acres	2.1 acres	5.8 acres
Forested Wetland Vegetation Removal (Permanent)	<0.1 acre	1.3 acres	1.3 acres
Scrub-shrub Upland Vegetation Potentially Affected	2.6 acres	1.4 acres	4.0 acres
Open Field Upland Vegetation Potentially Affected	1.2 acres	0	1.2 acres
Scrub-shrub Wetland Vegetation Potentially Affected	0	0.8 acre	0.8 acre
Biological Resources			
Vernal Pools Affected (number)	0	2 (CH-1-VP, CH-2-VP)	2
State-listed Species Habitat Traversed (number)	1	1	2
Land Uses			
Recreational Areas (linear miles traversed along ROW)			
• Mansfield Hollow State Park	0.8 mile	0	0.8 mile
• Mansfield Hollow WMA	0.1 mile	0.5 mile	0.6 mile
• Trails	3 Levee Trail, Red Trail (within Park) Nipmuck Trail East Branch (within WMA)	0	3
Visual Resources			
Structure Appearance	Monopoles with vertically-configured conductors; galvanized steel finish; 115-155 feet in height		

Notes to Table LFM-4 REVISED June 4, 2012:

1. Acreages and mileage estimated and may change based on final survey and easement agreement with the USACE.
2. The wetland bordering Mansfield Hollow Lake (Wetland W20-66, Segment 1) would be spanned. Trees in this wetland would be cut or trimmed to maintain clearance from conductors.
3. Potential environmental impacts presented in this table were estimated based on preliminary locations of structures, work pads, and access roads, as well as on estimated vegetation removal limits. It was assumed that the presently unmanaged forested areas south of the existing Line 330 (which include approximately 25 feet along the south side of the ROW in Segment 1 and 5 feet along the southern portion of the existing ROW in Segment 2) would remain in place and would not be affected by the construction Project. Further, it is assumed that the areas affected by construction would typically include the following:
 - Segment 1. Along this 0.9-mile segment, construction workspace of 85 feet in width (typical) is assumed to be required. This workspace includes the 25-foot-wide ROW expansion area, plus the 25-foot-wide area of unmanaged (generally forested) vegetation on the north side of the existing ROW and approximately 35 feet of shrubland within the existing CL&P ROW, north of the 330 Line conductors (for the purposes of this analysis, it was assumed that construction work space would extend up to 15 feet from the northern outside conductors on the 330 Line).
 - Segment 2. Along this 0.5-mile segment, construction workspace of 85 feet in width (typical) is assumed to be required. This workspace includes the 35-foot-wide ROW expansion area, plus the 5-foot-wide area of unmanaged (generally forested) vegetation on the north side of the existing ROW and approximately 45 feet of shrubland to the north of the existing 330 Line conductors (15 feet from the outside conductors).