

## Hypothetical Example of Construction Cost Estimate for 40-mile 345 kV Transmission Line

### FOR NYISO ESPWG DISCUSSION PURPOSES ONLY

1. This cost estimate is for a conceptual proposal to install approximately 40-mile, 345 kV transmission line.
2. The cost estimate of the hypothetical line installation is \$121.4M that includes 200 feet expansion of existing right of way.
3. The cost of the project represents approximately \$3.04M/mile.
4. The proposal involves:
  - Construction of a new 40 mile 345 kV transmission line with 2 conductors per phase of 1192 ACSR (\$84.0M)
  - 200 feet of ROW expansion on existing 345 kV transmission corridor (\$34.0M)
  - Two 345 kV circuit breakers (\$3.4M) to terminate the new line.

<b>ESTIMATE</b>					
<b>Work Segment</b>	<b>Labor</b>	<b>Material</b>	<b>Project Totals</b>	<b>Capital Portion</b>	<b>Manhours</b>
Structure Work	\$11,560,000	\$25,651,296	\$37,211,296	\$37,211,296	85000
Wire Work	\$13,480,000		\$13,480,000	\$13,480,000	98000
Foundation Work	\$6,975,000	\$730,275	\$7,705,275	\$7,705,275	59250
Misc Support Services	\$8,000,266		\$8,000,266	\$8,000,266	
TLS Staff	\$4,275,000		\$4,275,000	\$4,275,000	
Engineering	\$2,437,500		\$2,437,500	\$2,437,500	
Overhead			\$10,459,567	\$10,459,567	
<b>TOTAL</b>			<b>\$83,568,904</b>	<b>\$83,568,904</b>	<b>242,250</b>
<b>VARIANCE</b>					
<b>ROUNDED ESTIMATE</b>			<b>\$84,000,000</b>	<b>\$84,000,000</b>	

Figure 1. 345 kV line construction estimate breakdown.