Request 2 - SVT Integrals

$$\phi = -\frac{1}{2}h_{00} \tag{0.1}$$

$$B = \int d^3y D^{(3)}(\mathbf{x} - \mathbf{y}) \tilde{\nabla}_y^k \tilde{\nabla}_k^y h_{0k}$$

$$\tag{0.2}$$

$$B_i = \int d^3 y D^{(3)}(\mathbf{x} - \mathbf{y}) \left[\tilde{\nabla}_y^k \tilde{\nabla}_k^y h_{0i} - \tilde{\nabla}_i^y \tilde{\nabla}_y^k h_{0k} \right]$$

$$(0.3)$$

$$E_{i} = \int d^{3}y D^{(3)}(\mathbf{x} - \mathbf{y}) \int d^{3}z D^{(3)}(\mathbf{y} - \mathbf{z}) \left[\tilde{\nabla}_{z}^{k} \tilde{\nabla}_{z}^{z} \tilde{\nabla}_{z}^{j} h_{ij} - \tilde{\nabla}_{i}^{z} \tilde{\nabla}_{z}^{k} \tilde{\nabla}_{z}^{l} h_{kl} \right]$$
(0.4)