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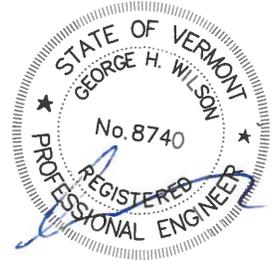
# J. A. McDONALD, INC.

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## CLARENDOMN BRO 1443 (48)

### TEMPORARY RELOCATION of STREAM PLAN



The temporary relocation of Clarendon River will be required to reconstruct the stream/river channel as shown in the contract documents. Construction activities associated with channel reconstruction include installation of diversion barrier, removal of existing substructure, unclassified channel excavation, stone fill, special provision stream bed material.... This work will be completed in phases to allow for uninterrupted stream flow and permit excavation and installation of stone fills within a confined/isolated area.

In-stream construction is restricted to the period from July 1<sup>st</sup> through Oct. 1<sup>st</sup>. In-stream work will be limited to this period and scheduled for periods of low flow. Extended weather forecast will be consulted prior to in-stream construction to ensure a period of little or no precipitation is forecasted. In-stream activities will be suspended if an unanticipated storm event produces flows which exceed twice the average daily flow.

Prior to construction activities on the above referenced project, JA McDonald will install perimeter erosion control measures/devices as shown in the ESPC Plan. Barrier fence will be installed to delineate environmental sensitive areas to ensure these areas are not disturbed.

#### PHASE I

Subsequent to the removal of the existing bridge superstructure, the Clarendon River will be diverted/channeled to the northern portion of the channel. A diversion barrier consisting of poly lined traffic barriers/sandbags will be installed as shown in the Phase I plan. Substructure removal, unclassified channel excavation will be disposed of at an approved off-site waste area, some of the excavations will also be used to supplement the stream bedding material. Stone fill and stream bed material will be placed to elevations/limits shown in the contract documents. Following placement of the channel material the reconstructed channel will be slowly "wetted" to minimize the effects of the initial sediment pulse.

#### PHASE II

In this phase the Clarendon River will be diverted/channeled to the previously Phase I reconstructed channel on the south side. The diversion barrier used in Phase I will be relocated as shown in the Phase II plan. Substructure removal, unclassified channel excavation, stone fill and stream bed material will be constructed to elevations/limits shown in the contract documents. Following placement of the channel material the reconstructed channel will be slowly "wetted" to minimize the effects of the initial sediment pulse.

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## CLARENDOMN BRO 1443 (48)

### TEMPORARY RELOCATION of STREAM PLAN Sequencing/Phases

#### Pre-Construction

- Submit & Obtain Approval of Temporary Relocation of Stream Plan
- Submit & Obtain Approval of Erosion Protection Sediment Control Plan
- Submit US Army Corp Work Start Notification Form
- On-Site Preconstruction Conference with River Management Engineer (Jaron Borg)
- Submit Off-Site Activity Report for Staging, Stockpile, Waste & Borrow Sites

#### Pre-Phased Construction

- Install Construction Approach Signage
- Install EPSC Perimeter Controls
  - Install Demarcation/Barrier Fence
  - Install Silt Fence
  - Install Vehicle Tracking Pads
- Inspect & Clean/Repair Equipment for Soil/Vegetation , Hydraulic/Fuel Leaks
- Ensure Equipment and Material availability
- Monitor Weather Forecast for inclement conditions
- Maintain EPSC measures installed
- Remove existing bridge super/substructure

#### Phase I Temporary Relocation of Stream/Stream Bed Reconstruction

- Monitor Weather Forecast for inclement conditions
- Maintain EPSC measures install in Pre-Phased Construction
- Install Water Diversion Barrier
- Unclassified Channel Excavation/Substructure Removal
- Install Stone Fill and Special Provision Stream Bed Material
- Install Grubbing Material above OHW, Seed and Mulch

#### Phase II Temporary Relocation of Stream/Stream Bed Reconstruction

- Monitor Weather Forecast for inclement conditions
- Maintain EPSC measures install in Pre-Phased & Phase I Construction
- Reset Water Diversion Barrier
- Unclassified Channel Excavation/Substructure Removal
- Install Stone Fill and Special Provision Stream Bed Material
- Install Grubbing Material above OHW, Seed and Mulch