PROPOSED CONTRACTORS CONSTRUCTION STEPS

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The following is an assumed time table for the "Erosion Prevention and Sediment Control Plans" as presented in the preceeding plan sheets.

Critical Path Operations

1. Build new turnaround area to relocate existing turnaround so work can start at South Burlington Abutment.
2. Relocate sewer main on Colchester side so work can start on Colchester abutment. Representatives of NECR will have installed sleeve under tracks for sewer line.
3. In order to maintain two-way traffic through the project, as defined in the project special provisions, the contractor will only have room enough to construct the fills and sub-base wide enough to place the left curb.
4. After traffic is moved to the new fills and the new bridge, then the fills on both sides of river can be completed, and sidewalks constructed, and street lights placed inside the green strip. Also, the existing arch bridge can then be removed, turnout & parking area completed, and overlook built.

>> Spring and Summer of 2005 <<

1. Erect Project Signs
2. Install project demarcation fence (PDF)
3. Install erosion prevention and sediment control items
   - ... Silt fence
   - ... Stone check dams and inlet protection units
4. Construct small staging areas with vehicle tracking pad

South Burlington Side of Winooski River

1. Dual operations 1
   Station 10+100 Left - Construct turnaround area as needed for temporary turnaround
   - ... Strip over burden
   - ... Drill, blast, and remove ledge
   - ... Install drainage and place crushed stone to sub-grade
   - ... Shape swales, place top soil, shape, seed, fertilize and mulch
   - ... Pave turnaround area

   Start placement of closed drainage at 10+320 left
   - ... Maintain traffic on Lime Kiln Road
   - ... Strip over burden, excavate pipe, backfill, grade, temporary seed, fertilize and mulch
   - ... Continue installing all closed drainage and pave over all cuts within existing Lime Kiln Road and use stone check dams.

2. Dual operations 2 - Once turnaround is built and in use
   Station 10+310 and 10+330 - New abutment and pier footings for arch
   - ... Strip over burden making sure not to let material enter river
   - ... Drive piles at abutment and drill, blast, and remove ledge for arch footings
   - ... Form and place concrete for arch footings
   - ... Form and place concrete for abutment footings and stems
   - ... Continue placing all closed drainage
   - ... Install new stone check dams and maintain all as needed

   .. Place fill to sub-base and then place sub-base of crushed gravel to sub-grade
   Shape fill slopes, top soil, seed, fertilize and mulch
   Fill on left side is restricted to just behind roadway left curb in order to maintain traffic on existing Lime Kiln Road. However, this temporary slope must still be shaped, seeded, fertilized and mulched. Use erosion matting on all slopes greater than 1 on 3.

Colchester Side of Winooski River

1. Station 10+410 Right - Construct relocation of sewer main
   - ... Remove only existing tree stumps as needed and start excavation for new sewer line at manhole S2 near tracks.
   - ... Continue installing sewer main towards Sta 10+455
   - ... Install temporary sewer line to existing manhole at Sta 10+460 left
   - ... Install sewer line in sleeve under tracks, build manholes at S1 and tap into existing sewer line.
   - ... Switch sewer over to new line

2. Station 10+422 Right - Construct bottom drainage
   - ... Excavate and place stone fill at outlet
   - ... Place bottom system pipe to existing Lime Kiln Road, add temporary inlet pan, and inlet protection unit.

3. Multi-Operations 1 – New abutment and pier footings for arch
   Station 10+370 - Pier footings for arch
   - ... Strip over burden making sure not to let material enter river
   - ... Drill, blast, and remove ledge for arch footings
   - ... Form and place concrete for arch footings

   Station 10+400 – New abutment (only after sewer line has switched over)
   - ... Strip over burden, remove tree stumps as needed
   - ... Excavate for MSE wall footing
   - ... Form and pour MSE wall footing
   - ... Install MSE wall units and backfill with selected gravel fill up to bottom of new abutment footing.
   - ... Form abutment footing and place concrete footing
   - ... Form stems and place rebar & concrete
   - ... Backfill to bridge seat with selected granular fill

   Place fill to sub-grade
   - ... Construct temporary ditch on left side of new fill at right edge of existing Lime Kiln Road, and line with stone.
   - ... Shape fill slopes, place top soil seed, fertilize and mulch slopes. Use erosion matting on all slopes greater than 1 on 3.
   - ... Fill on left side is restricted to just behind roadway left curb in order to maintain traffic on existing Lime Kiln Road. However, this temporary slope must still be shaped, seeded, fertilized and mulched. Place erosion matting on all slopes greater than 1 on 3.
   - ... Once fill slope reaches sub-base, place crushed stone material up to sub-grade

   Continue placing all closed drainage and sewer line in roadway fill as fill rises
   - ... Install stone check dams and inlet project units as warranted

4. Review and make sure all slopes are prepared for winter on both sides of the river
   - ... Install erosion matting on slopes that do not have good grass cover for the winter

Bridge Construction – Both sides over Winooski River

>> Summer and Fall 2006 <<

1. Once arch footings have cured on both sides of the river, construct arches
   - ... Place form work, reinforcing steel, and pour arch masonry
   - ... Place form work, reinforcing steel, and pour arch pier columns
   - ... Place form work, reinforcing steel, and pour pier caps
   - ... Place precast box beams and precast slabs

2. Bridge Construction continued
   - ... Place reinforcing steel and pour deck
   - ... Form and pour sidewalk and curb
   - ... Form and pour approach slabs
   - ... Form and pour concrete bridge railing
   - ... Place bridge membrane
   - ... Attach new VT Gas lines to bridge
3. Approach work on both sides of Winooski River
   - ... Complete all top drainage and sewer line connections
   - ... Complete placement of crushed gravel to grade and construct all drives
   - ... Pour concrete curbs
   - ... Install guard rail posts
   - ... Pour bridge railing, cure, strip railing
   - ... Install VT Gas line behind guard rail on Colchester side
   - ... Shape material behind guard rail, seed, fertilize, & mulch

>> Late Summer or Early Fall of 2006 <<

1. Switch traffic over to new bridge
2. Start removing existing arch bridge
   - ... Install temporary enclosure to prevent material from falling into river or on to railroad tracks.
   - ... Remove pavement, superstructure deck, and pier caps & columns
3. Review and make sure all slopes are prepared for winter on both sides of the river
   - ... Install erosion matting on slopes that do not have good grass cover for the winter

>> Spring and Summer of 2007 <<

1. Relocate check dams and construct ditch on left side of Colchester
2. Remove arches and enclosures
3. Install lighting on bridge
4. Complete placement of fill on left side of approaches, both sides of river, to sub-base
   - ... Place crushed stone material up to grade
   - ... Place street lighting conduit
   - ... Form and pour sidewalk
   - ... Install street lights
   - ... Install guardrail on left side
   - ... Remove temporary concrete barrier
5. Excavate for lookout, form and pour walls, pour slab and railing
6. Shape fill slopes, seed, fertilize and place erosion matting as fill slopes are installed
7. Complete turnaround and parking area
   - ... pave, mark lines, and install signs
8. Install historic plaque near overlook
9. Remove staging areas, cover, seed, fertilizer, and mulch
10. Install erosion matting on slopes that do not have good grass cover for the winter
11. Remove stone check dams and inlet protection units if good grass cover exists
12. Remove project signs

NOTES:

1. **THE USE OF NAMES ARE GENERIC, AND ARE NOT TO BE TAKEN AS CONTRACT PAY ITEMS.**

2. **THE CONSTRUCTION STEPS OUTLINED ABOVE WERE PREPARED FOR PERMITTING PURPOSES ONLY. THE CONTRACTOR SHALL SUBMIT THEIR OWN PROPOSED CONSTRUCTION SEQUENCING AS PART OF THEIR EPSC PLAN. ALL COSTS SHALL BE INCLUDED UNDER ITEM 652.10, EROSION PREVENTION AND SEDIMENT CONTROL PLAN.**

3. **ALL DISTURBED SLOPES SHALL BE SEEDED AND MULCHED BY SEPTEMBER 15. ANY DISTURBED AREAS OR SLOPES THAT HAVE NOT ESTABLISHED GOOD GRASS COVER BY OCTOBER 15 SHALL BE COVERED WITH EROSION MATTING.**

PROJECT NAME:	COLCHESTER-SOUTH BURLINGTON
PROJECT NUMBER:	BRM 5600(6) S
FILE NAME: sdl39epsc.dgn	PLOT DATE: 4-25-05
PROJECT LEADER: Farnsworth	DRAWN BY: Weeber
DESIGNED BY: STR6	CHECKED BY: Farnsworth
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