

# MILLER CONSTRUCTION, INC.

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## TRANSMITTAL

TO: Kristin M. Higgins, PE Project Manager Vermont Agency of Transportation	DATE	PROJECT NO.
	7/7/2014	Barnard ER BRF 0241 (39)

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WE ENCLOSE THE FOLLOWING:

\_\_\_\_\_ UNDER SEPARATE COVER WE ARE SENDING THE FOLLOWING

COPIES	NUMBER	DESCRIPTION	CODE
1		Schedule Narrative - Rev 6 - July	H
1		Schedule Dated 07/07/14	H

CODE:

A FOR INITIAL APPROVAL

B FOR FINAL APPROVAL

C APPROVED AS NOTED-RESUBMISSION REQUIRED

D APPROVED AS NOTED-RESUBMISSION NOT REQUIRED

E DISAPPROVED-RESUBMIT

F QUOTATION REQUESTED

G APPROVED

H FOR APPROVAL

I AS REQUESTED OR REQUIRED

J FOR USE IN ERECTION

K LETTER FOLLOWS

L FOR FIELD CHECK

M FOR YOUR USE

BY: \_\_\_\_\_

*Paul J. Miller*



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07/07/14

## **Barnard ER BRF 0241 (39) – Schedule Narrative – Revision 6**

### Project Overview:

The Barnard ER BRF 0241 (39) Project involves the replacement of Bridge 25 with related approach and channel work. The project location is in the Town of Barnard, VT on Vermont Route 12, beginning at Mile Post 7.0195 and ending at Mile Post 7.0535. The new structure will be approximately 88 feet in length with 97 feet of roadway work.

The intent of the Project is to have the bridge closure period (BCP) be as short a duration as possible. The allowable BCP is 28 consecutive calendar days. During the BCP, work will be allowed on the bridge 24 hours per day, 7 days per week, including holiday periods.

The Contract Completion Date is August 29, 2014. The BCP shall begin on or after June 20, 2014.

### Monthly Updates:

Work performed during the previous Monthly Period is as follows:

- Removal of Temporary Bridge
- Partial Removal of Structure
- Excavation
- Piling Installation
- Installation of Precast Abutments
- Stone Fill
- Submission of CPM Schedule Update: July

### Schedule:

The Miller Construction, Inc. approach in preparing the Preliminary Project Baseline Schedule is to sequence activities as logically and efficiently as possible. All activities comprise of basic bridge building concepts with finish-start relationships.

### Pre-Construction:

Pre-Construction activities included the submission and subsequent approval of all required submittals. There are (12) twelve required submittals for the project and status of each is as follows:

- CPM Schedule Software Request – Approved
- Bearing Device Assembly – Approved
- Rail Box Beam – Approved
- CPM Schedule – Approved
- Precast Structure Design – Approved
- EPSC Plan – Approved
- Reinforcing Steel – Approved



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Traffic Control Plan – Approved  
HPC Rapid Set Mix – Approved  
Piling Information / WEAP – Approved  
Lighting Plan – Approved  
Precast Structure Erection Plan – Approved

Pre-Construction activities also included the procurement of material. The status of material with significant lead time is as follows:

Bearing Device Assembly – Stockpiled at Jobsite  
Piling – Installed  
Bridge & Approach Rail – Stockpiled at F.R. Lafayette  
Level II Reinforcing Steel – Stockpiled at Miller Construction, Inc.  
Precast Concrete – Installed & Stockpiled at J.P. Carrara & Sons, Inc.

A potential conflict that exists is the cost of stockpiling material. Due to the short duration of the project, material must be on hand well before the start of construction. Because stockpile payments are not allowed for items with Contract bid amount less than \$25,000, several items (Piling, Bearing Device Assembly, Reinforcing Steel, and certain Rail Items) must be paid for up front by Miller Construction Inc. with no payment for said items being received until the months of July and August. Additionally, no Raw Material Stockpile Payment or exception to the 75% Cap on Stockpiled Materials has been authorized for the project.

Pre-Construction activities also include the submission and subsequent approval of all proposed subcontracts. Currently, all anticipated subcontracts for the project have been submitted and approved.

## Closure:

Remaining closure activities include the Installation of the NEXT Beams and subsequent work. All work up to, and including the membrane, base course of pavement on the approaches, and line striping targets is required to open the bridge to two-way traffic.

One potential conflict that exists is weather. As with any project, it is possible to experience conditions to include, but not limited to, extreme heat, rain, flood, and wind. The contract states that that the BCP is absolutely fixed and will not be changed for any Act of God, omission, improper action, direction of the Engineer, or any other reason unless done so by the Secretary and only under extreme conditions as determined by the Secretary. Every effort shall be made to work though extreme conditions in a safe and productive manner.

## Post-Closure:

Post-Closure activities include the removal of the detour signage and traffic control devices, demobilization, and subsequent removal of the Engineer's Trailer.

All contract items may not be complete at the time of releasing traffic onto Route 12. Such



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remaining items include, but are not limited to, final pavement, line striping, and site reclamation. If required, such work shall be performed with full time, certified flaggers and the schedule adjusted accordingly.

## Resources:

One crew has been working extended hours over a seven-day workweek during the BCP. At this time, no night work is anticipated, but it shall be implemented should it be deemed necessary.

Crew fatigue is a major concern for the project. Safety and productivity are continually monitored and crew adjustments may need to be made accordingly.

## Duration Justification:

Forming of the Backwalls exceeds the 12 Hr. task limit during the BCP. Formwork around the NEXT Beam stems account for the long duration. All efforts shall be made to prefabricate forms in order to expedite the activity.

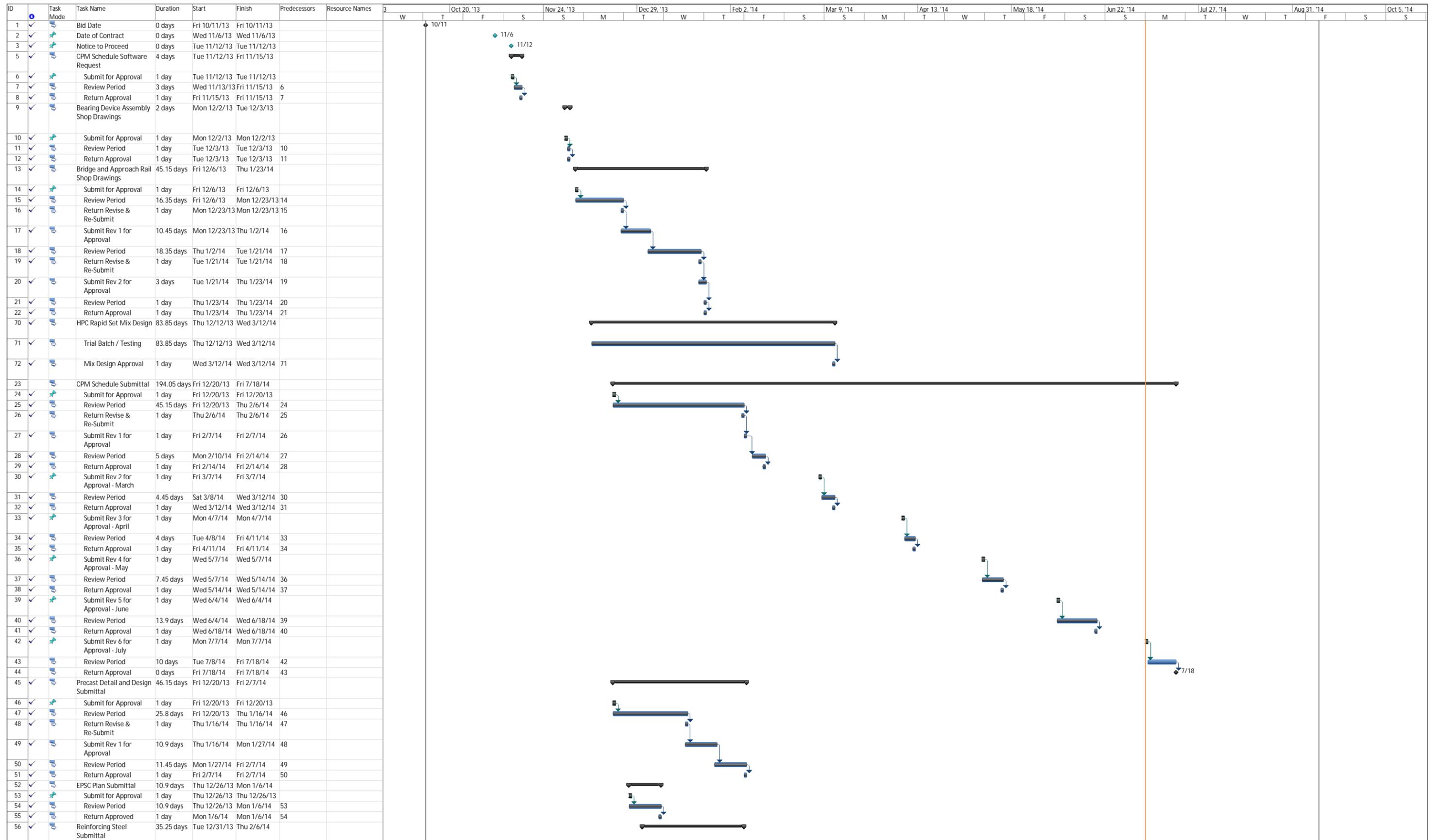
## Critical Path:

The Critical Path task bars are colored red, and Critical Path items highlighted yellow.

Milestone Dates are as follows:

10/11/13 Bid Date  
11/06/13 Date of Contract  
11/12/13 Notice to Proceed  
02/19/14 Pre-Construction Meeting  
06/20/14 Begin BCP  
07/09/14 Superstructure Set  
07/18/14 End BCP  
08/28/14 Project Completion

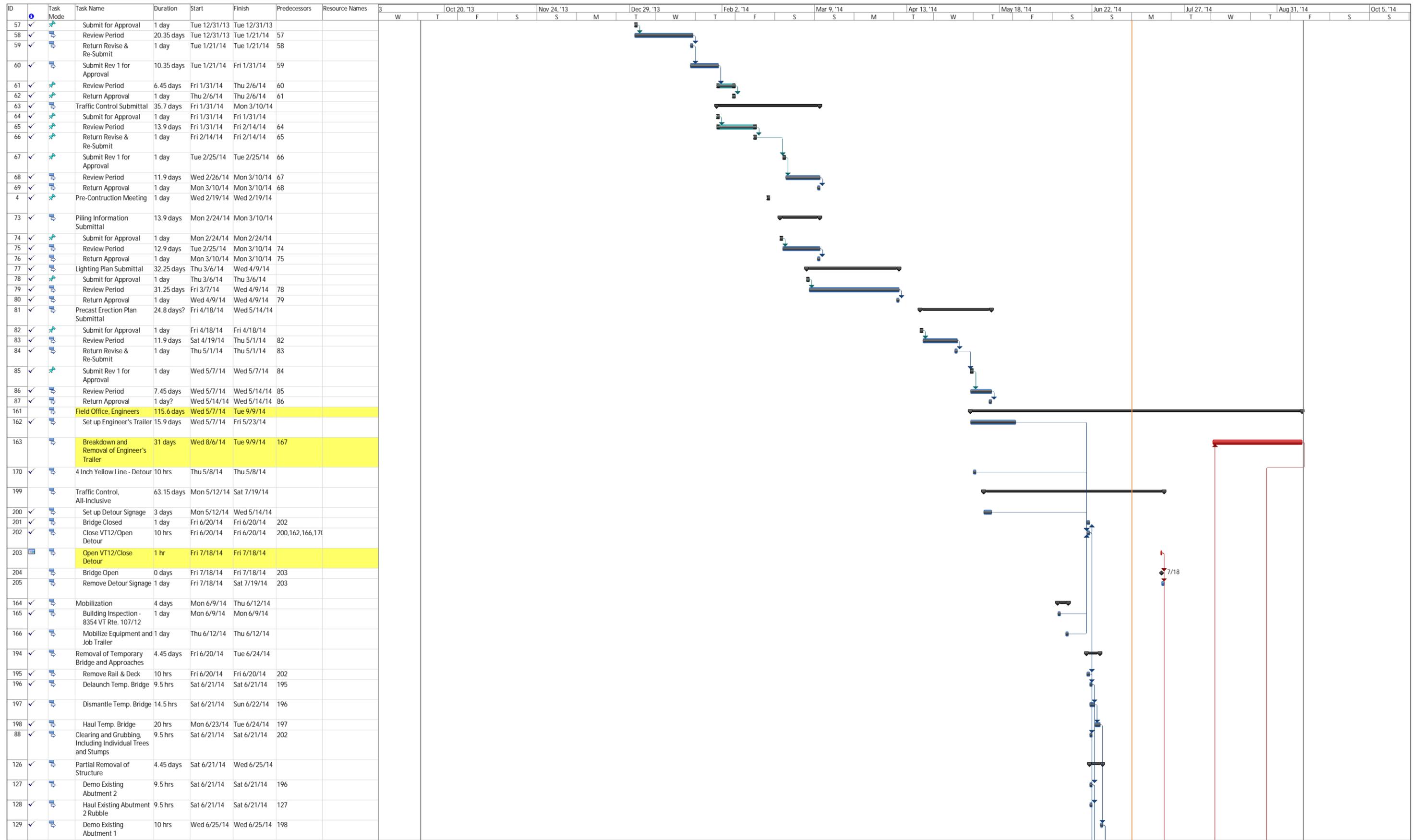
BCP duration is 28 consecutive calendar days.



Project: Barnard ER BRF 0241 (39) Date: Mon 7/7/14

Task Split

█ Milestone    ◆ Project Summary    █ External Milestone    ◆ Inactive Milestone    ◇ Manual Task    █ Manual Summary Rollup    ▬ Start-only    █ Deadline    + Critical Split  
⋯ Summary    ▬ External Tasks    █ Inactive Task    ▬ Inactive Summary    ▬ Duration-only    ▬ Manual Summary    ▬ Finish-only    █ Critical    █ Progress    ⋯



Project: Barnard ER BR# 0241 (39)	Task	Milestone	Project Summary	External Milestone	Inactive Milestone	Manual Task	Manual Summary Rollup	Start-only	Deadline	Critical Split
Date: Mon 7/7/14	Split	Summary	External Tasks	Inactive Task	Inactive Summary	Duration-only	Manual Summary	Finish-only	Critical	Progress



