

## **Repair of Neskowin Creek Bridge at South Beach Road**

The South Beach Road Association and Proposal Rock Homeowners Association have contracted with OBEC Engineering (Eugene, OR) to design and install a structure that will protect the foundation on the east side of the South Beach Road bridge over Neskowin Creek. Erosion over the last several years has advanced beyond the pilings that support the bridge and has undercut the concrete fill that lies below the roadbed adjacent to the bridge. Because of fish passage concerns, repairing the bridge is not a simple procedure.

The OBEC proposal and contract are included on the following pages. Please note that OBEC estimates the final cost might increase by \$2,500 as a result of factoring a 5% inflation increase in construction costs. OBEC is responsible for designing the repair, obtaining the necessary permits, and overseeing the project. Local contractors will construct the protective structure. A standard bid procedure will be used to choose the contractor.

The South Beach Road Association and Proposal Rock Homeowners Association Boards approved moving forward with Tasks 1, 2, and 3 of the OBEC proposal. At the 2013 Annual Meeting SBRA members approved the permitting and environmental study necessary for the project, Task 3. The Board subsequently learned that the Army Corps of Engineers required a hydraulic analysis that includes a No-Rise Certification, Task 2. No-rise certification means that during the repair of the bridge water levels will not rise upstream. The hydraulic analysis also will guide the design of the protective structure.

The South Beach Road Association and the Proposal Rock Homeowners Association will share equally the cost of the bridge repair.

The schedule for the work is included on the page that follows the OBEC proposal.



OBEC Job No. 0755-0002.00

**SOUTH BEACH ROAD (NESKOWIN CREEK) BRIDGE  
SCOUR MITIGATION  
SOUTH BEACH ROAD ASSOCIATION  
AGREEMENT**

THIS AGREEMENT by and between the South Beach Road Association, hereinafter called the Owner, and OBEC Consulting Engineers, 920 Country Club Road, Suite 100B, Eugene, OR 97401, hereinafter called the Consultant.

Whereas the OWNER intends to have environmental and engineering services provided for scour mitigation of the South Beach Road (Neskowin Creek) Bridge.

Now, the OWNER and the CONSULTANT, for the considerations set forth hereinafter, agree as follows:

**SECTION I  
BASIC SERVICES OF THE CONSULTANT**

- A. General - The Consultant agrees to perform professional services in connection with the Project as hereinafter stated.
- B. Scope of Work and Estimated Fee for the *South Beach Road (Neskowin Creek) Bridge Scour Mitigation Proposal*.

**SECTION II  
THE OWNER'S RESPONSIBILITIES**

The Owner shall:

- A. Provide full information as to the requirements for the Project.
- B. Assist the Consultant by placing at his disposal all available information pertinent to the Project including previous reports, survey data, and any other data relative to design of the Project.
- C. Guarantee access to and make all provisions for the Consultant to enter upon public and private lands as required for the Consultant to perform his work under this Agreement.
- D. Examine all studies, reports, sketches, estimates, drawings, specifications, proposals, and other documents presented by the Consultant and shall render in writing decisions pertaining thereto within a reasonable time so as not to delay the work of the Consultant.
- E. Obtain approval of all governmental authorities having jurisdiction over the Project and such approval and consents from such other individuals or bodies as may be necessary for completion of the Project.



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**SECTION III  
PERIOD OF SERVICE**

- A. The contract shall expire, unless otherwise terminated or extended, on December 31, 2014.
- B. Delays attributable to or caused by one of the parties hereto amounting to 30 days or more affecting the completion of the work may be considered a cause for renegotiations or termination of this Agreement by the other party.

**SECTION IV  
PAYMENT TO THE CONSULTANT**

- A. Payments for Basic Services.
  - 1. The Owner shall pay the Consultant for Basic Services performed on a Time & Materials basis.
  - 2. Payments on account of said Basic Services described above shall be made according to the attached OBEC "2014 Salary Grade & Hourly Rates" spreadsheet.
  - 3. Payment shall be due within 30 days following receipt of invoice.

**SECTION V  
GENERAL CONSIDERATIONS**

- A. Termination

This Agreement may be terminated by either party by seven (7) days written notice in the event of substantial failure to perform in accordance with the terms hereof by the one party through no fault of the other party. If this Agreement is so terminated, the Consultant shall be paid in proportion to the work performed prior to the date of notice of termination.
- B. Ownership of Documents

All documents, including original drawings, estimates, specifications, field notes and data are and remain the property of the Consultant as instruments of service. The Owner may at his expense retain reproducible copies of drawings and copies of other documents, in consideration of which it is mutually agreed that the Owner will use them solely in connection with the Project, and not for the purpose of making subsequent extensions or enlargements thereto, save with the express written consent of the Consultant. Reuse for extensions of the Project, or for new projects, shall require permission of the Consultant and shall entitle him to further compensation at a rate to be agreed upon between Owner and Consultant.
- C. Arbitration

Arbitration of all questions in dispute under this Agreement shall be at the choice of either party and shall be in accordance with the rules of the American Arbitration Association. This Agreement shall be specifically enforceable under the prevailing arbitration law and judgment upon the award rendered may be entered in the court of the forum, state or federal, having jurisdiction. The decision of the arbitration shall be a condition precedent to the right of any legal action.

D. Indemnity

The Consultant shall save, hold harmless, and indemnify the Owner, its officers, agents, and employees, from all claims, suits or actions including attorney fees that result from or arise out of the negligent acts or willful misconduct of the Consultant in the performance of services under this contract.

The Consultant has not been retained, or compensated to direct, or supervise the Contractor's personnel; operate or have direct use of equipment; be responsible for construction means, methods, techniques, and procedures; be responsible for safety precautions on the project; or in any way infringe on the duties of the Contractor(s). The Contractor alone is responsible for the adequate performance in conforming with the intent of the Construction Contract involving all aspects of the project and for the acts or omissions of the Contractor's agents or employees.

E. Insurance

During the term of this contract, Consultant shall maintain in force at its own expense, each insurance noted below:

Worker's Compensation insurance in compliance with ORS 656.017.

Professional Liability insurance with a combined single limit or the equivalent of not less than \$2,000,000 with aggregate of \$2,000,000 each claim, incident or occurrence. This is to cover damages by error, omission or negligent acts related to the professional services provided under this contract.

General Liability insurance with a combined single limit or the equivalent of not less than \$1,000,000 with aggregate of \$2,000,000 each occurrence of Bodily Injury and Property Damage. It shall include contractual liability coverage for the indemnity provided under this contract.

Automobile Liability insurance with a combined single limit or the equivalent of not less than \$1,000,000 each accident for Bodily Injury and Property Damage.

Notice of cancellation or change. There shall be no cancellation, material change, reduction of limits or intent not to renew the insurance coverage(s) without 30 days written notice from Consultant or its insurer(s) to the Owner.

Certificates of Insurance. As evidence of the insurance coverages required by this contract, Consultant shall furnish acceptable insurance certificates to the Owner prior to initiation of work. The certificates will specify all Additional Insured.

F. Successors and Assigns

The Owner and the Consultant each binds himself and his partners, successors, executors, administrators, and assigns to the other party of this Agreement and to the partners, successors, executors, administrators, and assigns of such other party, in respect to all covenants of this Agreement; except as above, neither the Owner nor the Consultant shall assign, sublet, or transfer his interest in this Agreement without the written consent of the other. Nothing herein shall be construed as creating any personal liability on the part of any officer or agent of any public body which may be a party hereto.

The Owner and the Consultant mutually agree that his Agreement shall be subject to the following special provisions which together with the provisions hereof and the exhibits hereto represent the entire Agreement between the Owner and the Consultant.

Owner may increase or alter work to be done, and any changes occasioned thereby in amounts to be paid hereunder shall be agreed to in writing prior to the Consultant's performance of such work. The Consultant shall make no claim for extra work unless so agreed to. All work furnished hereunder shall at all times be subject to the approval of the Owner.

**IN WITNESS WHEREOF** the parties hereto have made and executed this Agreement the day and year below written.

South Beach Road Association (SBRA)

\_\_\_\_\_  
William H. Busch, South Beach Road Association

\_\_\_\_\_  
P.O. Box 354

\_\_\_\_\_  
Neskowin, OR 97149

Date: \_\_\_\_\_

OBEC Consulting Engineers

  
\_\_\_\_\_  
Guy N. Halanson, Vice President

\_\_\_\_\_  
920 Country Club Road, Suite 100B

\_\_\_\_\_  
Eugene, OR 97401

Date: 7-28-14



EUGENE, OR  
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[www.obec.com](http://www.obec.com)

July 29, 2014

South Beach Road Association  
c/o Mr. William H. Busch  
P.O. Box 354  
Neskowin, Oregon 97149

Re: South Beach Road (Neskowin Creek) Bridge  
Scour Mitigation Proposal  
OBEC Statement of Work and Budget  
OBEC Job No. P755-0002

Dear Bill:

OBEC Consulting Engineers is pleased to submit this proposal to you, as the designated representative of the South Beach Road Association (SBRA), to provide environmental and engineering services for scour mitigation of the South Beach Road (Neskowin Creek) Bridge. Our services will assist the SBRA in obtaining the necessary permits and permit figures so the SBRA can bid and construct the necessary scour mitigation to protect the bridge. OBEC proposes to perform the work described in the tasks below.

## **STATEMENT OF WORK**

### **Task 1 – Project Coordination**

Consultant shall coordinate with the SBRA and OBEC staff to manage all tasks and deliverables.

Consultant shall:

- Manage and direct OBEC staff
- Communicate and liaise with the SBRA
- Develop and maintain project delivery schedule

*Deliverables:*

- Invoices on a monthly basis
- Project delivery schedule

*Schedule:*

- Invoices during the normal billing cycle
- Project schedule within (2) weeks following notice to proceed (NTP)

## **Task 2 – Hydraulic Analysis and No-Rise Certification**

OBEC shall provide hydraulic analysis and a no-rise certification for the bridge site. A site assessment will be conducted to assess scour conditions, tidal influence, and lateral channel stability.

Consultant shall obtain current Neskowin Creek hydraulic model from the Federal Emergency Management Agency (FEMA) library. Consultant shall collect survey data of Neskowin Creek to create cross-section data for hydraulic analysis. The data will be tied to survey control to compare tidal data and current hydraulic model to OBEC's data prior to performing hydraulic analysis.

Hydraulic analysis and hydraulic modeling will be conducted to determine the no-rise result for FEMA floodplain permitting and scour protection design. Scour depth will be determined based on this modeling and analysis. A brief hydraulic technical memorandum and no-rise certification will be provided for SBRA's use in securing the FEMA floodplain permit.

### *Assumptions:*

- It is assumed that one trip to the bridge will be made to collect survey data, consisting of seven (7) cross sections (three [3] upstream and four [4] downstream).
- It is anticipated that a maximum of four (4) hydraulic models (a duplicate run of the Flood Insurance Study data; a duplicate effective model; a corrected effective model, as needed; and a proposed model) will be created to show a no-rise condition on Neskowin Creek.
- Scour analysis will be based upon Federal Highway Administration's Hydraulic Engineering Circular No. 18 – Evaluating Scour at Bridges.
- Hydraulic analysis shall be performed in accordance with the ODOT Hydraulics Manual, FEMA regulations and any local regulations.

### *Deliverables:*

- Stamped No-Rise Memorandum and supporting calculations
- No-Rise Certificate

### *Schedule:*

- To be determined based on the schedule produced in Task 1.

## **Task 3 – Permits**

OBEC shall provide environmental permitting and documentation for the project area. The SBRA will be the named permit holder and OBEC will involve the SBRA during the permit development process.

Consultant shall:

- Organize and attend one (1) on-site pre-application meeting with representatives from the permitting agencies.
- Flag the ordinary high water (OHW) elevation of the creek and incorporate that boundary into the base map of the project for use in permitting.
- Prepare and submit the Department of State Lands (DSL) and United States Army Corps of Engineers (USACE) Joint Permit Application (JPA) for placement and construction of the bridge abutment scour protection.
- Prepare and submit the Oregon Department of Fish and Wildlife (ODFW) Fish Passage Plan for this project.
- Prepare and submit the documentation necessary to utilize the USACE's Standard Local Operating Procedure for Endangered Species (SLOPES) Programmatic Biological Opinion for potential impacts to endangered fish that may result from this project.
- Coordinate and communicate with permitting agency staff before, during, and after submittal of permit applications.

*Assumptions:*

- The SBRA will be the named permit holder.
- All permit fees will be paid by the SBRA.
- OHW will be marked prior to collecting survey data in Task 2.
- Access 200 feet upstream and downstream will be allowed for channel width measurements.
- Only one (1) site visit with regulatory personnel will be needed and all other agency coordination will occur via phone or email.
- No wetlands are present and no compensatory mitigation will be required.
- The project will meet the stream simulation design or large-scale crossing requirements of the ODFW fish passage plan.
- The project will meet the conditions of SLOPES, and no individual biological assessment is necessary. Additionally, it is assumed that no other endangered species besides fish are present within or near the project area.
- Conceptual planting plan and sketches for the construction limits will be included in the JPA. One stamped plan sheet will be included in the JPA.
- An Endangered Species Act (ESA) No-Effect Memorandum will not be required by the USACE.
- The SBRA will perform the permit closeout.

*Deliverables:*

- One (1) complete JPA package including the required figures submitted to the DSL and USACE.
- One (1) Fish Passage Plan submitted to ODFW.
- One (1) SLOPES Compliance Report submitted to the USACE.

*Schedule:*

- To be determined based on the schedule prepared under Task 1.



**Task C4 Construction Phase Services [CONTINGENCY]**

***Release of this contingency task is at the discretion of the SBRA. Contingency Task 4 will only be performed upon the written approval (email acceptable) of the SBRA.***

OBEC will provide limited services during construction of the project. OBEC will travel to the bridge site to provide construction staking to define the toe of the riprap revetment. After the stakes and reference points are set, preserving the stakes becomes the responsibility of the SBRA and/or Construction Contractor (CC).

*Assumptions:*

- It is assumed the SBRA will monitor all construction activities to correct any construction activities that deviate from the anticipated activities described in the permits.

*Deliverables:*

- Construction staking

We propose to perform the work on a time-and-materials basis using OBEC's 2014 hourly rates, for a base task (Task 1 through 3) cost not to exceed \$27,042 and a contingency task cost of \$3,313. The approximate breakdown of effort by task is included in this proposal, along with OBEC's Salary Grade and Hourly Rates for each classification.

For budgeting purposes, the fee estimate also includes an estimate of construction costs with contingencies.

We hope that this proposal provides you with the information you require at this time. We look forward to working with you on this project.

Sincerely,

A handwritten signature in black ink, appearing to read "Austin Bloom". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Austin Bloom  
Environmental Division Manager | Project Manager

ARB

Enclosures

TASK	Roadway Division Manager	Project Engineer 4	Enviro. Team Lead	Enviro. Spec.	Senior Project Surveyor	Survey Tech. 3	Senior CADD Tech	Const. Division Manager	Asti. Project Manager	Admin. Assl. 3	TOTAL TASK HOURS	TOTAL TASK AMOUNT
Task 1   Project Coordination	4		4					4		8	20	\$2,184
Task 2   Hydraulic Analysis and No-Rise Certification	2	60	1			12		1	12	2	90	\$10,890
Task 3   Permits		14	20	90			8		8	2	142	\$13,674
Task 4   Construction Phase Services - CONTINGENCY			4		10	10		2	4		30	\$3,166
<b>TOTAL HOURS</b>	<b>6</b>	<b>74</b>	<b>29</b>	<b>90</b>	<b>10</b>	<b>22</b>	<b>8</b>	<b>7</b>	<b>24</b>	<b>12</b>	<b>282</b>	
<b>2013 HOURLY RATES</b>	\$168.00	\$128.00	\$99.00	\$90.00	\$114.00	\$86.00	\$86.00	\$141.00	\$122.00	\$69.00		
<b>TOTAL LABOR ESTIMATE</b>	\$1,008	\$9,472	\$2,871	\$8,100	\$1,140	\$1,892	\$688	\$987	\$2,928	\$828		

<b>TOTAL OBEC LABOR</b>	\$	26,748.00
<b>TOTAL OBEC EXPENSES</b>	\$	294.00
<b>TOTAL CONTINGENCY LABOR</b>	\$	3,166.00
<b>TOTAL CONTINGENCY EXPENSES</b>	\$	147.00
<b>TOTAL ESTIMATE INCLUDING CONTINGENCIES</b>	\$	30,355.00
<b>ESTIMATE FOR CONSTRUCTION</b>	\$	45,000.00
<b>CONSTRUCTION CONTINGENCIES @ 10%</b>	\$	4,500.00
<b>TOTAL PROJECT COST</b>	\$	79,855.00



**2014 Salary Grade & Hourly Rates**

<u>Personnel Classification</u>		<u>Personnel Classification</u>	
Principal/Chief Engineer	\$199		
<b><u>Design</u></b>		<b><u>Construction</u></b>	
Division Manager/Sr. Project Manager	\$168	Division Manager/Project Manager	\$141
Project Manager	\$157	Construction Group Manager	\$130
Sr. Specifications Engineer	\$144	Assistant Project Manager	\$122
Sr. Project Engineer	\$144	Sr. Engineering Technician	\$119
Project Engineer 4	\$128	Field Engineer 3	\$114
Project Engineer 3	\$114	Engineering Technician 3	\$92
Sr. Roadway/Bridge Designer	\$108	Field Engineer 2	\$90
Utility Coordinator	\$101	Engineering Technician 2	\$78
CAD Manager	\$101	Engineering Technician 1	\$70
Specifications Technician	\$101		
Environmental Team Lead	\$99	<b><u>Administration</u></b>	
Bridge/Roadway Designer	\$90	Director Financial Operations	\$181
Environmental Specialist	\$90	Project Coordinator	\$119
Sr. CAD Technician	\$86	Contract Administrator	\$113
CAD Technician 2	\$70	IT Manager	\$99
CAD Technician 1	\$55	Project Controller	\$99
Engineering Intern	\$55	Administrative Team Lead	\$92
		Sr. IT Specialist 3	\$92
<b><u>Surveying</u></b>		Staff Accountant/Project Accountant	\$92
Division Manager/Project Manager	\$141	Administrative Assistant 3	\$69
Sr. Project Surveyor	\$114	Branch Office Administrator	\$69
Project Surveyor	\$96	IT Specialist 2	\$69
Survey Technician 3	\$86	Accounting Specialist 3	\$58
Survey Technician 2	\$70	Accounting Specialist 2	\$58
Survey Technician 1	\$55	Secretary 2	\$58
Survey/Field Intern	\$55	Receptionist 1	\$55

**Travel/Reimbursable Expenses:**

Mileage: ODOT Current Rate  
 Reimbursable job costs will be invoiced at cost.

**Equipment Charges:**

Special equipment @ direct rental cost

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1111 Main Street, Suite 401, Vancouver, Washington 98660-2987

South Beach Road (Neskowin Creek) Bridge  
Design Schedule

ID	Task Name	Duration	Start	Finish	4																																																		
					Aug '14				Sep '14				Oct '14				Nov '14				Dec '14				Jan '15				Feb '15				Mar '15				Apr '15				May '15				Jun '15				Jul '15				Aug '15		
					E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E	E	B	M	E			
1	<b>South Beach Road (Neskowin Creek) Bridge</b>	<b>290 days</b>	<b>Wed 8/6/14</b>	<b>Tue 9/15/15</b>	[Gantt bar from 8/6/14 to 9/15/15]																																																		
2	Notice to Proceed	0 days	Wed 8/6/14	Wed 8/6/14	[Milestone diamond at 8/6]																																																		
3	<b>Project Management</b>	<b>290 days</b>	<b>Wed 8/6/14</b>	<b>Tue 9/15/15</b>	[Gantt bar from 8/6/14 to 9/15/15]																																																		
4	General Project Management	290 days	Wed 8/6/14	Tue 9/15/15	[Gantt bar from 8/6/14 to 9/15/15]																																																		
5	<b>Surveying</b>	<b>14 days</b>	<b>Fri 8/29/14</b>	<b>Wed 9/17/14</b>	[Gantt bar from 8/29/14 to 9/17/14]																																																		
6	Field Survey, Control, Topo, Post Processing	14 days	Fri 8/29/14	Wed 9/17/14	[Gantt bar from 8/29/14 to 9/17/14]																																																		
7	<b>Design and Hydraulic Engineering Phase</b>	<b>185 days</b>	<b>Thu 9/18/14</b>	<b>Thu 6/4/15</b>	[Gantt bar from 9/18/14 to 6/4/15]																																																		
8	Hydraulic Analysis and Riprap Design	30 days	Thu 9/18/14	Wed 10/29/14	[Gantt bar from 9/18/14 to 10/29/14]																																																		
9	Prepare No-Rise Memo and Calculations	30 days	Thu 10/30/14	Wed 12/10/14	[Gantt bar from 10/30/14 to 12/10/14]																																																		
10	Internal QA/QC of Hydraulic Memo, Riprap Design, and No-Rise	7 days	Thu 12/11/14	Fri 12/19/14	[Gantt bar from 12/11/14 to 12/19/14]																																																		
11	Submit Riprap Design, Hydraulic Memo and No-Rise Cert to Client	0 days	Fri 12/19/14	Fri 12/19/14	[Milestone diamond at 12/19]																																																		
12	Client Review and OBEC Revisions	14 days	Mon 12/22/14	Thu 1/8/15	[Gantt bar from 12/22/14 to 1/8/15]																																																		
13	Submit Final Design, Hydraulic Memo, and No-Rise to Client	0 days	Fri 1/9/15	Fri 1/9/15	[Milestone diamond at 1/9]																																																		
14	Neskowin HOA Prepare Floodplain Permit Application	14 days	Fri 1/9/15	Wed 1/28/15	[Gantt bar from 1/9/15 to 1/28/15]																																																		
15	Neskowin HOA Submit Floodplain and No-Rise Application to County Planning	0 days	Wed 1/28/15	Wed 1/28/15	[Milestone diamond at 1/28]																																																		
16	County Review of Floodplain Application	90 days	Thu 1/29/15	Wed 6/3/15	[Gantt bar from 1/29/15 to 6/3/15]																																																		
17	County Issuance of Floodplain Permit	0 days	Thu 6/4/15	Thu 6/4/15	[Milestone diamond at 6/4]																																																		
18	<b>Permitting Phase</b>	<b>147 days</b>	<b>Thu 10/30/14</b>	<b>Fri 5/22/15</b>	[Gantt bar from 10/30/14 to 5/22/15]																																																		
19	Prepare All Permit Applications and Environmental Documents	30 days	Thu 10/30/14	Wed 12/10/14	[Gantt bar from 10/30/14 to 12/10/14]																																																		
20	Internal QA/QC of Permit Applications	7 days	Thu 12/11/14	Fri 12/19/14	[Gantt bar from 12/11/14 to 12/19/14]																																																		
21	Submit Permit Applications to Client	0 days	Mon 12/22/14	Mon 12/22/14	[Milestone diamond at 12/22]																																																		
22	Neskowin HOA Review of Permits and Gather Signatures	14 days	Fri 12/26/14	Wed 1/14/15	[Gantt bar from 12/26/14 to 1/14/15]																																																		
23	Submit Permit Applications to Agencies	0 days	Thu 1/15/15	Thu 1/15/15	[Milestone diamond at 1/15]																																																		
24	Agency Review of Permit Applications	90 days	Fri 1/16/15	Thu 5/21/15	[Gantt bar from 1/16/15 to 5/21/15]																																																		
25	All Permits Received	0 days	Fri 5/22/15	Fri 5/22/15	[Milestone diamond at 5/22]																																																		
26	<b>Construction Phase</b>	<b>82 days</b>	<b>Mon 5/25/15</b>	<b>Tue 9/15/15</b>	[Gantt bar from 5/25/15 to 9/15/15]																																																		
27	Bid Let Preparation	14 days	Mon 5/25/15	Thu 6/11/15	[Gantt bar from 5/25/15 to 6/11/15]																																																		
28	Bid Let	0 days	Fri 6/12/15	Fri 6/12/15	[Milestone diamond at 6/12]																																																		
29	Contractor Bidding, Review, and Award	21 days	Mon 6/15/15	Mon 7/13/15	[Gantt bar from 6/15/15 to 7/13/15]																																																		
30	Construction Notice-to-Proceed	0 days	Tue 7/14/15	Tue 7/14/15	[Milestone diamond at 7/14]																																																		
31	Mobilization	15 days	Wed 7/15/15	Tue 8/4/15	[Gantt bar from 7/15/15 to 8/4/15]																																																		
32	Construction	30 days	Wed 8/5/15	Tue 9/15/15	[Gantt bar from 8/5/15 to 9/15/15]																																																		