Northeastern Transportation and Wildlife Conference

Streamlining emergency coordination for engineering and the environment

Pre Planning the Event

9/12/2016

- New York State Department of Transportation
- New York State Department of Environmental Conservation
- Adirondack Park Agency
Hurricane Irene

Route 9N, Keene, NY
Saranac River Slope Failure

NYS Route 3, Riverview
NYSDOT Emergency Action Plan

• Governors Executive Order
  – E.O. #26 3/5/1999
  – All State Agencies shall use the National Interagency Incident Management System (NIIMS)
  – Incidents shall be managed using the Incident Command System

• NYSDOT Regional Incident reporting system
  – Low, Minor, < 30 min., Intermediate, 30 min. to 3 hours
  – Major (Level 1) Events that have a severe traffic impact or safety risk. Generally >3 hours duration.

• Defining the emergency
• Action Planning / Alternatives
• Notifications / Permitting
NYSDOT R7 ASSET MANAGEMENT

1252 Bridges (> 20’)
671 Large Culverts (5’ – 20’)
9142 Small Culverts (< 5’)
3500 Lane Miles Highways

Inspection cycles are subject to change based upon rating criteria.
To: New York State Department of Transportation

ENGINEERING INSTRUCTION

EI 10-016

Title: INSPECTION FLAGGING PROCEDURE FOR BRIDGES

Distribution:

☐ Manufacturers (18)  ☐ Surveyors (33)
☐ Local Govt. (31)  ☐ Consultants (34)
☐ Agencies (32)  ☐ Contractors (39)
☐ ____ ( )

Approved:

/s/Arthur P. Yannotti

Arthur P. Yannotti, P.E.
Acting Deputy Chief Engineer (Structures)

6/2/10

Date

ADMINISTRATIVE INFORMATION:

• Effective Date: This Engineering Instruction is effective from July 1, 2010.
• Superseded Issuances: None
• Disposition of Issued Materials: The attached procedure replaces Appendix I of the Bridge Inspection Manual.

PURPOSE: The purpose of this EI is to issue the revised Flagging Procedure for Bridges that resides as Appendix I of the Bridge Inspection Manual.

TECHNICAL INFORMATION:

• The flagging procedure is being revised to accommodate changes in practice and to incorporate electronic communication option.
• Changes Being Affected By This Issuance: Bridge Inspection Flagging Procedure
• There is no significant impact on cost.

IMPLEMENTATION:

• The Main Office Bridge Inspection Unit will replace the old Appendix I with the attached revised procedure and inform all relevant inspection personnel and bridge authorities in the New York State.

TRANSMITTED MATERIALS: Revised “Inspection Flagging Procedure for Bridges” (Appendix I of the Bridge Inspection Manual), dated July 1, 2010 is attached.

CONTACT: Direct questions regarding this issuance to Bridge Inspection Unit Supervisor of the Office of Structures at (518) 457-5498.
NYSDOT RED FLAG PROCEDURE

- Observation
- Prompt Interim Action
- Prepare Flagged Bridge Report
- Verbal Notification of Regional Bridge Engineer
- Verbal Notification of Responsible Party
- Decision on Prompt Interim Action Flags
- Flag Documentation

### Outstanding Flags (all bridges)

<table>
<thead>
<tr>
<th>Flag Type</th>
<th>Local</th>
<th>State</th>
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<tbody>
<tr>
<td>Red</td>
<td>0 Active (4 Inactive)</td>
<td>0 Active (2 inactive)</td>
</tr>
<tr>
<td>Yellow</td>
<td>23</td>
<td>15</td>
</tr>
<tr>
<td>Safety</td>
<td>18</td>
<td>3</td>
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### State Culvert Flags

<table>
<thead>
<tr>
<th>FLAG TYPE</th>
<th>January 2015</th>
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<tbody>
<tr>
<td>RED</td>
<td>1 Active 5 Inactive</td>
</tr>
<tr>
<td>YELLOW</td>
<td>20</td>
</tr>
<tr>
<td>SAFETY</td>
<td>22</td>
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</table>
“EMERGENCY DEFINITION”

• The situation is an emergency based on the immediate protection of life, health, general welfare, property or natural resources. (6 NYCRR Part 621.12)

• An “emergency” is a situation which would result in an unacceptable hazard to life, a significant loss of property, or an immediate, unforeseen, and significant economic hardship if corrective action requiring a permit is not undertaken within a time period less than the normal time needed to process the application under standard procedures. (USACE)

• Regional “Finding of Emergency” by the Regional Director (NYSDOT)
UPA 621.12: Emergency authorizations

If prior notice is not possible, a state or local government agency may take immediate action, but must notify the Department's Regional Permit Administrator within 24 hours of taking action. The notification must provide the Department a basis on which to issue an Emergency Authorization.
UPA 621.12: Emergency authorizations

Prior to issuing an emergency authorization DEC must:

- Make a finding of emergency; “Presents an immediately threat to life, health, property, general welfare or natural resources.”
- Project will be carried out in a manner that will cause the least change, modification or adverse impact to life, health, property or natural resources
Adirondack Park Agency
Emergency Certifications

Criteria:

• An emergency exists or existed

• The emergency project is or was immediately necessary for protection of life or property

• The emergency project is or was limited to what is necessary to respond to the emergency
NYSDOT Offsite Resource Inventory

• Key Map
• Culvert Inspection
• Inspection flagging documentation
• Stream Stats
• USDA Soil survey
• Office
  – Section 7 threatened and endangered species
  – NYSDEC environmental viewer
• Wetland delineation – off site
• Condition photos
• USACE emergency procedures
• Emergency declaration
  – Internal
  – Regulatory
• Regulatory notifications (email, phone ect.)
NYSDOT Onsite Resource
Inventory/Analysis

- NYSDOT On site inspections - Culvert form
- Field site photos
- Wetland delineation
- Stream field sections
- Section 7 field screening / finding verification
- Section 106 field screening / finding verification
On site Questions:  

1. ☒ Yes ☐ No  Is water flowing thru the culvert?  If yes, water depth in culvert?  2”
2. Height of ordinary high water mark at the invert of the culvert?  18”
3. Slope of the waterway reach
   Above culvert: ☐ 0 - 1% ☑ 1-4% ☐ >4%
   Below culvert: ☐ 0 - 1% ☑ 1-4% ☐ >4%
4. General description of the bottom material
   In culvert: ☐ Unconsolidated  ☐ Stone  ☐ concrete  ☐ metal  ☐ Plastic
   Inlet: ☐ Unconsolidated  ☐ Stone  ☐ concrete  ☐ metal  ☐ Plastic
   Outlet: ☐ Unconsolidated  ☐ Stone  ☐ concrete  ☐ metal  ☐ Plastic
   Reach above: ☑ Unconsolidated native  ☐ native stone  ☐ manufactured stone
   Reach below: ☑ Unconsolidated native  ☐ native stone  ☐ manufactured stone
5. ☐ Yes ☒ No  Do natural or man-made barriers to fauna passage exist?
6. ☐ Yes ☒ No  Does a low flow path/channel exist thru the culvert?
7. ☐ narrower ☑ matched ☐ wider  What is the culvert width in relation to stream channel?
8. Is the presence or passage likely for;
   ☑ Yes ☐ No  Fish
   ☑ Yes ☐ No  Aquatic organisms
   ☑ Yes ☐ No  Other wildlife
9. ☒ Yes ☐ No  Is the culvert perched?  If yes, depth: ______
10. Do pools exist at the;
    ☐ Inlet  Depth: ______
        ☑ Outlet Depth 12”
        ☐ Upstream  Depth: ______
        ☐ Downstream Depth: ______
11. ☒ Yes ☐ No  Is vegetation shading the reach above or below the culvert?
12. ☒ Yes ☐ No  Will tree (>4” Dia.) removal be required?
13. ☒ Yes ☐ No  Is there connectivity to a NYSDEC wetland at the outlet and/or inlet?
14. ☒ Yes ☐ No  Is a wetland delineation required?
15. Adjacent land use;
   Above culvert: ☐ residential ☐ agricultural ☐ commercial ☐ natural ☑ wetland
   Below culvert: ☐ residential ☐ agricultural ☐ commercial ☑ natural ☐ wetland
16. ☑ Yes ☐ No  Is the culvert in alignment with the waterway?
17. ☒ Yes ☐ No*  Are invasive species present?
18. ☒ Yes ☐ No  Are there any indications of illicit discharges present?
19. ☒ Yes ☐ No  Is beaver activity affecting the culvert?
20. ☒ Yes ☐ No  Is a regulatory agency on-site review recommended?

* For this screening reed canary grass is not considered invasive

Photos:  See next page for locations.  Date:
Reviewer’s:  __John Falge__  Date:  _12/9/2015_  Weather:  ________________
REGULATORY COMPLIANCE

• USACE Compliance Certification
• NYSDEC Compliance Certification
• FEMA Documentation
• Adirondack Park Agency
262924 Emergency Culvert Replacement Case Study

- **12/1/2015** Culvert Inspection
  - Red Flag Determination
- **NYSDOT Regional Incident reporting system**
  - Major (Level 1) Events that have a severe traffic impact or safety risk.
  - Notifications
- **12/9/2015** On Site Environmental Resource Inventory and Analysis
  - Alternative Analysis / Engineering Design
- **12/11/2015** Environmental Permitting - Regulatory Coordination
  - LEPDA determination
  - Initial submission to NYSDEC – USACE
  - USACE PCN concurrence 12/17/2015
  - NYSDEC Blanket Water Quality Certification
- In Water construction begins
- **12/21/2015** Project Complete
- **12/23/2015** Regulatory Certifications
REGULATORY COORDINATION
Environmental Inventory and Analysis

• U.S. ARMY Corps of Engineers
• NYSDEC Region 5, Ray Brook
• U.S. Fish & Wildlife Service, Section 7
• SHPO / Section 106
• USDA NRCS
Figure 1 At the culvert looking SW toward NYS Rt.11. Note the Great Chazy River at right side of photo.

Figure 2 Outlet photo showing raccoon tracks.
Figure 3 Outlet channel looking west from culvert. Small pool at the outlet. Typical section taken near the top of the photo.

Figure 4 at the outlet of the culvert looking up toward the road surface. 15’ +/- cover over the culvert.
D262924 Emergency Culvert Replacement

Figure 5 From roadway looking E at Rt.11 and stream inlet.

Figure 6 Road signage location Note upstream wetland.
Figure 7 Outlet location showing signs of structural failure and flow channel width of 5” +/- . Note no native material in the pipe.

Figure 8 Upstream section location where the channel was measured.
D262924 Emergency Culvert Replacement

Figure 9 Outlet flow at the end section

Figure 10 Adjacent downstream property
Figure 10 From road looking W. Note Great Chazy river at the top of the photo.

Figure 11 Upstream looking E from road. Wetland and associated stream channel. NYS Rt. 11 embankment to the right.
CONSTRUCTION EMERGENCY CONTRACT

Contract Notes
Plans
Specifications
Certifications
CONSTRUCTION NOTES

Special Note

Notifications - Environmental EMERGENCY AUTHORIZATIONS

Uniform Procedures Act - 6NYCRR Part 621.12

This note applies to emergency work that may involve environmental resources such as waterways, wetlands, endangered species, historic properties, cultural resources, forest preserve, scenic vistas, and “critical environment areas”.

Emergencies dictate a prompt response to events that immediately threaten life, health, property or natural resources. The environmental regulatory agencies recognize that emergency situations develop that the Department of Transportation (DOT) has an obligation to ameliorate as an emergency site condition. Under these circumstances, regulatory agencies can expedite project review and issuance of Emergency Authorization (EA) decisions. Part 621 of the N.Y.S. Environmental Conservation law, also provides for immediate action by state government agencies, but requires the DOT to notify the regulators as follows: (see table 1.1 for environmental regulators by County)

Within 24 hours of taking action.

Additional information from the DOT no later than 24 hours after the initial notification. This additional information must be sufficient to provide the Regulatory Agency a basis on which to concur or make an EA. EA’s can only be issued for a period of up to 30 days and renewed for up to an additional 30 day period. Project continuation beyond that 60 day period can only be accomplished by submitting a completed application for and receiving a regular permit. If necessary, the regulators can summarily order a suspension of work if no EA has been granted or it finds the emergency finding no longer applies. Regulators may order remedial work as written in the EA.
The Department of Transportation shall:

1. Make a written "Finding of Emergency" stating why the immediate action is needed (generally speaking an emergency declaration by the Federal government, N.Y.S. or a local government fulfills this criterion, although the DOT can make their own finding).

2. Make the Regulatory notifications and provide the required information within the time frames stated above.

3. Approve materials, techniques and methodologies for construction activities to be carried out in a manner which causes the least change, modification or adverse impact to life, property or natural resources.

4. After stabilizing the emergency site, proceed under conditions to assure compliance with the EA or other regulatory standards normally applicable absent the emergency.

The contractor shall:

Verify notification of environmental agencies.

1. Provide DOT staff supporting permit documentation for proposed construction activities that may affect environmental resources, including, but not limited to, schedules, materials, access, and construction techniques.

2. Pay for any permits, licenses or fees that are required to perform the work. (ie. Hauling permits, dumping permits, permits for borrow pits, surplus material areas, staging areas, equipment storage areas, batch plants or any ancillary facilities beyond the project boundaries. etc.)
Aquatic Life Passage

Low flow passage

• 7Q2
• Fishx
• Backwatering
Aquatic Life Passage

<table>
<thead>
<tr>
<th>Water Depth Inside Culvert (ft)</th>
<th>Existing 72° CMP</th>
<th>Proposed 60° CMP with Rock Weir</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Distance from Inlet</td>
<td>Distance from Inlet</td>
</tr>
<tr>
<td>Low Flow = 0.08 cfs (from DEC)</td>
<td>0</td>
<td>0.309</td>
</tr>
<tr>
<td>Median Flow = 0.91 cfs (from DEC)</td>
<td>0</td>
<td>0.43</td>
</tr>
<tr>
<td>Q2 = 33.20 cfs</td>
<td>1.783</td>
<td>39.542</td>
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<td>Q50 = 92.60 cfs</td>
<td>2.981</td>
<td>49.093</td>
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<tr>
<td>Q1.00 = 106.00 cfs</td>
<td>3.224</td>
<td>43.679</td>
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</table>
CONSTRUCTION

• Accelerated project design and plans
• Environmental resource protection
• Hydraulic alternative analysis
Region 7 - Watertown
New York State Department of Transportation

SEQR - Construction Consistency Certification

The work proposed shall be reviewed under 6 NYCRR Part 4 of the New York State Environmental Quality Review Act (SEQR). The proposed actions to be undertaken as part of the project have been determined to be major in nature and classified as exempt, excluded or Type II actions. After engineering and environmental analysis the proposed work has been determined not to have a significant effect on the environment.

The action will be reviewed for its impact on natural resources and to determine the potential for environmental resources. Information on the locations of environmental resources can be found at www.nydot.state.ny.us/environmental/EnvironmentalQualityReview.

The action has been reviewed by the New York State Department of Transportation Environmental Staff. Upon site review, if the proposed work has the potential to impact environmental resources, the SEQR determination may need to change and additional reviews, and for regulatory permits issued. The thresholds noted below MUST NOT be exceeded to maintain the proper environmental determinations.

Thresholds

1. No acquisition of any occupied building.
2. No significant changes in water volume, vehicle miles, or travel patterns or access.
3. No temporary or permanent changes to land use or geology of local government bodies.
4. No physical alteration to an existing single-family building or any bridge listed on the Department's historic bridge survey.
5. No more than one structural alteration or adverse effect upon any property, public facility or environmental resource of significance including but not limited to:

   Environmental Resources Screened
   - Wetlands (APA, USACE, NYSDEN)
   - Flood Plain areas
   - Prime or unique agricultural land
   - Lakes, rivers, streams and other water resources
   - Water supply resources
   - Wild, scenic and recreational rivers
   - Forest preserves
   - Rare, Endangered or Threatened wildlife species
   - Work within a designated critical environmental area
   - Subsurface work in proximity to existing or historic gas stations, spills, direct and hazardous waste
   - Visual Quality

If project actions are proposed that exceed any of the above thresholds, relative to the resources screened, additional information for reclassification and regulatory processing will be necessary. The contractor shall be responsible for supplying supplemental information for the proposed work, materials, timing or methodology necessary to meet regulatory requirements prior to commencement of work. Demands or extra costs associated with additional permits or approvals shall be the responsibility of the contractor.

At proposed, we certify the above determination is consistent with the SEQR laws, rules and regulations of the New York State.

Environmental Review
12-15-2015
Date
Signature

Environmental Reviewer: John M. Page
Construction Environmental Coordinator

Construction Review
12-15-2015
Date
Signature

Construction: Gary McKenzie
Regional Construction Engineer
CONSTRUCTION
EMERGENCY CONTRACT

D262924, Reale Construction Inc.
Tom Maroun, Engineer In Charge
STARTUP

- Traffic Controls (Closure)
- Material storage and stockpiling
- Mobilization
COFFERDAMS – MAINTAINING FLOWS

- Inlet
- Outlet
- Cofferdam
EXCAVATION / PIPE PLACEMENT
PIPE INSTALLATION

Existing 72” x 44” Arch
Replacement
84” Round
Corrugated Metal Pipe

Embedded 16” +/-
SITE RESTORATION
Aquatic Life Passage

USGS NY WSC Streamflow Estimation Tool (NYSET)

Summary Report by: ion  Date: 8/13/15

Reference streamgage: 04275500  Ausable River near Au Sable Forks, NY
Correlation coefficient: 0.90
Distance from ungaged site: 18.38

<table>
<thead>
<tr>
<th>Basin characteristics</th>
<th>Ungaged site</th>
<th>Reference streamgage</th>
<th>Range*</th>
<th>Units</th>
<th>Percent different from reference gage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drainage area</td>
<td>1.57</td>
<td>445.00</td>
<td>3.14-4.780</td>
<td>miles squared</td>
<td>-99.05</td>
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<tr>
<td>Mean annual runoff, 1951 - 1980</td>
<td>18.10</td>
<td>20.80</td>
<td>11.6-37.4</td>
<td>inches</td>
<td>-12.98</td>
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<td>Percent of basin underlain by hydrologic soils group A</td>
<td>5.00</td>
<td>13.50</td>
<td>0.52-51.9</td>
<td>percent</td>
<td>-5.50</td>
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<tr>
<td>Percent of basin underlain by hydrologic soils group B</td>
<td>2.00</td>
<td>11.00</td>
<td>1.16-69.6</td>
<td>percent</td>
<td>-9.00</td>
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<tr>
<td>Slope of lower half of channel</td>
<td>52.00</td>
<td>53.90</td>
<td>1.56-152</td>
<td>feet/mile</td>
<td>-3.53</td>
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<tr>
<td>Percent of basin above 1200 ft sea level</td>
<td>100.00</td>
<td>80.20</td>
<td>0.00-100</td>
<td>percent</td>
<td>19.80</td>
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<td>Mean May precipitation, 1971 - 2000</td>
<td>3.30</td>
<td>3.70</td>
<td>3.15-5.68</td>
<td>inches</td>
<td>-10.81</td>
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<td>Mean July precipitation, 1971 - 2000</td>
<td>4.07</td>
<td>4.24</td>
<td>3.20-5.26</td>
<td>inches</td>
<td>-4.01</td>
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<td>Mean Summer precipitation, 1971 - 2000</td>
<td>12.80</td>
<td>12.90</td>
<td>10.48-15.51</td>
<td>inches</td>
<td>-0.78</td>
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<td>Maximum June temperature, 1971 - 2000</td>
<td>73.20</td>
<td>71.00</td>
<td>68.6-78.8</td>
<td>degrees Fahrenheit</td>
<td>1.81</td>
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<td>X location of basin centroid</td>
<td>579814.80</td>
<td>592992.13</td>
<td>-</td>
<td>UTM meters</td>
<td>-</td>
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<tr>
<td>Y location of basin centroid</td>
<td>493232.60</td>
<td>490618.75</td>
<td>-</td>
<td>UTM meters</td>
<td>-</td>
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<tr>
<td>X location of basin outlet</td>
<td>579705.00</td>
<td>607980.57</td>
<td>-</td>
<td>UTM meters</td>
<td>-</td>
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<tr>
<td>Y location of basin outlet</td>
<td>493195.00</td>
<td>492294.52</td>
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<td>UTM meters</td>
<td>-</td>
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</table>

*Streamflow estimates may not be valid if value for ungaged site is outside of this range

Streamflow statistics for ungaged site, 1961 - 2010, in cubic feet per second

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<tr>
<th>Month</th>
<th>Mean daily streamflow</th>
<th>Median daily streamflow</th>
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<tbody>
<tr>
<td>January</td>
<td>1.91</td>
<td>0.91</td>
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<tr>
<td>February</td>
<td>0.91</td>
<td>0.91</td>
</tr>
<tr>
<td>March</td>
<td>2.22</td>
<td>2.22</td>
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<tr>
<td>April</td>
<td>5.96</td>
<td>5.96</td>
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<tr>
<td>May</td>
<td>4.65</td>
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<tr>
<td>June</td>
<td>1.64</td>
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<tr>
<td>July</td>
<td>0.73</td>
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<td>August</td>
<td>0.65</td>
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<tr>
<td>September</td>
<td>0.77</td>
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<tr>
<td>October</td>
<td>1.42</td>
<td>1.42</td>
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<tr>
<td>November</td>
<td>1.95</td>
<td>1.95</td>
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<tr>
<td>December</td>
<td>1.43</td>
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Embedded 16” +/-
INLET RESTORATION
OUTLET RESTORATION
SITE COMPLETE - OUTLET
SLOPE PROTECTIONS
ROADWAY RESTORATION
REGULATORY COMPLETION Notifications

- USACE District Offices
- NYSDOT Operations
- NYSDEC Regulatory Office
- Adirondack Park Agency
<table>
<thead>
<tr>
<th>Agency</th>
<th>Coverage</th>
<th>Name</th>
<th>Title</th>
<th>Phone</th>
<th>Cell</th>
<th>Fax</th>
<th>Email</th>
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<tr>
<td>NYS Department of Environmental Conservation Region 6, Watertown</td>
<td>Lewis St. Lawrence</td>
<td>Larry Ambeau</td>
<td>Regional Permit Administrator Deputy</td>
<td>315-785-2247</td>
<td></td>
<td>315-785-2242</td>
<td><a href="mailto:Lawrence.ambeau@dec.ny.gov">Lawrence.ambeau@dec.ny.gov</a></td>
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<td></td>
<td></td>
<td>Tom Voss</td>
<td>Regional Permit Administrator</td>
<td>315-785-2249</td>
<td></td>
<td>315-785-2242</td>
<td><a href="mailto:Thomas.voss@dec.ny.gov">Thomas.voss@dec.ny.gov</a></td>
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<tr>
<td></td>
<td></td>
<td>Jessica Hart</td>
<td>Environmental Analyst</td>
<td>315-785-2246</td>
<td></td>
<td>315-785-2242</td>
<td><a href="mailto:Jessica.hart@dec.ny.gov">Jessica.hart@dec.ny.gov</a></td>
</tr>
<tr>
<td>U.S. Army Corps of Engineers – Buffalo District</td>
<td>Lewis St. Lawrence</td>
<td>Bridget Brown</td>
<td>Team Leader</td>
<td>315-255-8090</td>
<td></td>
<td>315-273-2055</td>
<td><a href="mailto:Bridget.brown@usace.army.mil">Bridget.brown@usace.army.mil</a></td>
</tr>
<tr>
<td>Adirondack Park Agency (Inside Park)</td>
<td>Lewis, Clinton St. Lawrence</td>
<td>Tom Saehrig</td>
<td>Environmental Project Review Specialist</td>
<td>518-891-4050</td>
<td></td>
<td>518-891-3938</td>
<td><a href="mailto:thomas.saehrig@apa.ny.gov">thomas.saehrig@apa.ny.gov</a></td>
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<tr>
<td></td>
<td></td>
<td>Richard Weber</td>
<td>Deputy Director of Regulatory Programs</td>
<td>518-891-4050</td>
<td></td>
<td>518-891-3938</td>
<td><a href="mailto:Richard.weber@apa.ny.gov">Richard.weber@apa.ny.gov</a></td>
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<tr>
<td>NYS Department of Environmental Conservation Region 5, Ray Brook</td>
<td>Franklin Clinton</td>
<td>Marc Migliore</td>
<td>Regional Permit Administrator Deputy</td>
<td>518-897-1238</td>
<td></td>
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<td></td>
<td>Erin Burns</td>
<td>Regional Permit Administrator</td>
<td>518-897-1234</td>
<td></td>
<td>518-897-1394</td>
<td><a href="mailto:Erin.burns@dec.ny.gov">Erin.burns@dec.ny.gov</a></td>
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<td></td>
<td></td>
<td>Erin Donhauser</td>
<td>Environmental Analyst</td>
<td>518-897-1234</td>
<td></td>
<td>518-897-1394</td>
<td>Erin.donhauser</td>
</tr>
<tr>
<td>U.S. Army Corps of Engineers – N.Y. District</td>
<td></td>
<td>Christine DeLorier</td>
<td>NYSDOT Project Manager</td>
<td>518-273-7420</td>
<td></td>
<td>518-273-2055</td>
<td><a href="mailto:Christine.delorier@usa.army.mil">Christine.delorier@usa.army.mil</a></td>
</tr>
<tr>
<td>NYSDOT Construction</td>
<td>Project EIC</td>
<td>Gary McKinney</td>
<td>Regional Construction Engineer</td>
<td>315-785-2329</td>
<td>315-399-6478</td>
<td>315-785-2483</td>
<td><a href="mailto:gary.mckinney@dot.ny.gov">gary.mckinney@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT Construction</td>
<td>All</td>
<td>Jeff Carpenter</td>
<td>Construction Supervisor</td>
<td>315-785-2307</td>
<td>315-778-2483</td>
<td>315-785-2483</td>
<td><a href="mailto:Jeff.carpenter@dot.ny.gov">Jeff.carpenter@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT Construction</td>
<td>All</td>
<td>Kevin LaJueett</td>
<td>Construction Supervisor</td>
<td>315-785-2332</td>
<td>315-778-2555</td>
<td>315-785-2483</td>
<td><a href="mailto:Kevin.lajueett@dot.ny.gov">Kevin.lajueett@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT Construction</td>
<td>All</td>
<td>John Falge</td>
<td>CEC - Environmental</td>
<td>315-785-2343</td>
<td>315-778-2211</td>
<td>315-785-2315</td>
<td><a href="mailto:john.falge@dot.ny.gov">john.falge@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT Maintenance</td>
<td>All</td>
<td>Rick Hunkins</td>
<td>Maintenance Engineer</td>
<td>315-782-4473</td>
<td>315-412-3386</td>
<td>315-788-0971</td>
<td><a href="mailto:rick.hunkins@dot.ny.gov">rick.hunkins@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT 7-1</td>
<td>Clinton</td>
<td>Val Basil</td>
<td>Resident Engineer</td>
<td>518-563-2020</td>
<td>518-944-7602</td>
<td>518-561-7315</td>
<td><a href="mailto:val.basil@dot.ny.gov">val.basil@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT 7-2</td>
<td>Franklin</td>
<td>Rob Haynes</td>
<td>Resident Engineer</td>
<td>518-483-0770</td>
<td>518-810-1013</td>
<td>518-483-8074</td>
<td><a href="mailto:rob.haynes@dot.ny.gov">rob.haynes@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT 7-3</td>
<td>Jefferson</td>
<td>Matt Bush</td>
<td>Resident Engineer</td>
<td>315-785-9317</td>
<td>315-276-5535</td>
<td>315-785-5635</td>
<td><a href="mailto:Matt.bush@dot.ny.gov">Matt.bush@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT 7-4</td>
<td>Lewis</td>
<td>Ken Bibbins</td>
<td>Resident Engineer</td>
<td>315-376-3523</td>
<td>315-214-9565</td>
<td>315-376-8478</td>
<td><a href="mailto:Ken.bibbins@dot.ny.gov">Ken.bibbins@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT 7-5</td>
<td>St. Lawrence</td>
<td>Ernie Olin</td>
<td>Resident Engineer</td>
<td>315-265-2320</td>
<td>315-323-8222</td>
<td>315-268-0512</td>
<td><a href="mailto:ernest.olin@dot.ny.gov">ernest.olin@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT Maintenance</td>
<td>All</td>
<td>Jim Ayers</td>
<td>MEC – Environmental</td>
<td>315-785-2318</td>
<td>315-276-5166</td>
<td>315-785-2320</td>
<td><a href="mailto:james.ayers@dot.ny.gov">james.ayers@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT Region 7</td>
<td>All</td>
<td>Robert Peck</td>
<td>Environmental Manager</td>
<td>315-785-2350</td>
<td>315-778-3458</td>
<td>315-785-2576</td>
<td><a href="mailto:robert.peck@dot.ny.gov">robert.peck@dot.ny.gov</a></td>
</tr>
<tr>
<td>NYSDOT Region 7</td>
<td>All</td>
<td>Dennis Pawlicki</td>
<td>Regional Emergency Manager</td>
<td>315-785-2316</td>
<td>315-783-5336</td>
<td>315-785-2314</td>
<td><a href="mailto:Dennis.pawlicki@dot.ny.gov">Dennis.pawlicki@dot.ny.gov</a></td>
</tr>
</tbody>
</table>
QUESTIONS ??

JOHN FALGE
Environmental Specialist II
Construction Environmental Coordinator

NYSDOT Region 7
317 Washington St.
Watertown, NY 13601
(315) 785-2343
262924 Emergency Culvert Replacement Case Study

- **12/1/2015** Culvert Inspection
  - Red Flag Determination
- **NYSDOT Regional Incident reporting system**
  - Major (Level 1) Events that have a severe traffic impact or safety risk.
  - Notifications
- **12/9/2015** On Site Environmental Resource Inventory and Analysis
  - Alternative Analysis / Engineering Design
- **12/11/2015** Environmental Permitting - Regulatory Coordination
  - LEPDA determination
  - Initial submission to NYSDEC – USACE
  - USACE PCN concurrence 12/17/2015
  - NYSDEC Blanket Water Quality Certification

- In Water construction begins
- **12/21/2015** Project Complete
- **12/23/2015** Regulatory Certifications