



Desilva Gates - Flatiron, JV
PO Box 619
Willits, CA 95490
Phone: (707) 459-1630
Fax: (707) 459-1653

March 5, 2014

Letter No. 00182

Caltrans
Contract 01-262004
300 East Hill Road
Willits, CA 95490

ATTENTION: Geoffrey T. Wright

Reference: Job 2087 – Highway 101 Willits Bypass
Caltrans – Contract: 01-262004

Subject: Corrections to Caltrans' Notice of Violation

Dear Mr. Wright,

We recently received a courtesy copy of the Notice Of Violation (NOV) dated 2/26/14 that you received from the State Water Board. As we discussed in our meeting on 2/28/14 regarding this issue, please find the attached pictures of the corrective measures installed since our meeting which correspond with the pictures in the NOV. Immediately after the storm referenced in the NOV we took action to mobilize crews in order to install, maintain and repair any Best Management Practice measures (BMP's) which were noted as deficient by our Water Pollution Control Manager (QPCM).

We have worked continuously since we were aware of these deficiencies in order to mitigate the issues listed therein, including working large crews through this past weekend and working overtime as required to prepare for forecasted rain events. We have also had several meetings with your staff in the office and the field in an extensive effort to improve our BMP systems.

Attached you will find a photo log of the corrections we've implemented at the locations depicted in the photos included in the NOV. As stated previously, assuming conditions were safe to do so, we've worked tirelessly in order to improve our site conditions with regards to any and all temporary SWPPP measures.

Please do not hesitate to contact me if you have any questions, comments or require any additional information. Thank you for your time and attention to this matter.

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Sincerely,
Desilva Gates - Flatiron, JV



Nick Reker
Project Manager

Cc: Job 2087 File
Read File
Benicia

NOV Attachment A Photo 1



Corrective Actions:

- Covered eroded slopes and DSA with Temporary Plastic Cover
- Placed filter fabric and ¼ ton RipRap over sediment at toe of stream bank
- Improved site drainage with ¾ " drain rock berms at the top of Bridge Number 10-0129 RL Abutments and culvert road to divert water off the road and into overside drains
- Blew straw on Bridge Number 10-0129 RL Southern Abutments for additional erosion protection
- Two overside drains installed to drain Bridge Number 10-0129 RL Southern Abutments
- Replaced overside drain under roadway to aid in draining the road

Future Actions:

- Stabilize South Haehl Creek banks with ¼ ton RipRap (scheduled 3/4/14)
- Repair erosion damage on slopes and install erosion control mat, fiber rolls, and seed when conditions allow

During Rain: Daily Total 2.28"



Corrective Action Photo 1A: Top of Bridge Number 10-0129 RL Northbound Abutment 1 with a $\frac{3}{4}$ " gravel berm to divert water into drain under road and straw to cover DSA



Corrective Action Photo 1B: View from top of Bridge Number 10-0129 RL Northbound Abutment 1. Looking north into South Haehl Creek and the culvert crossing

After Rain:



Corrective Action Photo 1C: Looking southwest at the culvert crossing and Bridge Number 10-0129 RL with filter fabric and ¼ ton RSP stabilizing the toe of slope



Corrective Action Photo 1D: DSA was stabilized with blown straw at the top of Bridge Number 10-0129 RL Northbound Abutment 1



Corrective Action Photo 1E: Crew installing ¼ ton RipRap slope stabilization along eastern bank of the culvert crossing. Looking southwest at the culvert crossing and Bridge Number 10-0129 RL



Corrective Action Photo 1F: Looking south at the culvert crossing and Bridge Number 10-0129 RL

NOV Attachment A Photo 2



Corrective Actions:

- Secured pipe inlet to provide proper drainage
- Pumping and Trucking all outlet water to the Willits Wastewater Treatment Plant to eliminate the sediment discharging into South Haehl Creek from this location
- Stabilize roadway ditches draining into the South Haehl Creek basins

Future Actions

- Operations planned to install rock berm around field inlet (scheduled 3/7/14) and slope when conditions allow for equipment access
- Repair erosion damage on slopes and install Straw and Tack when conditions allow



Corrective Action Photo 2A: Pumping water out of the Haehl Creek Interchange basins at the H-Line and winter access road intersection



Corrective Action Photo 2B: Stabilized ditches along the winter access road at the South Haehl Creek Interchange

NOV Attachment A Photo 3



Corrective actions:

- ¾" gravel berms installed to direct water off slope
- Overside drain installed to drain Bridge Number 10-0129 RL Southbound Abutment 1
- RSP was placed as an energy dissipater in the drainage below the erosion control mat

Future Actions:

- Complete the RSP installation (scheduled 3/6/14)
- Repair erosion damage on slopes and install erosion control mat, fiber rolls, and seed when conditions allow



Corrective Action Photo 3A: Looking south at the southbound Bridge Number 10-0129 RL Abutment 1.



Corrective Action Photo 3B: Looking south at the Bridge Number 10-0129 RL southern abutments

During Rain: Daily Total 2.28"



Corrective Action Photo 3C: View from above the southbound Bridge Number 10-0129 RL Abutment 1 at the culvert crossing and South Haehl Creek

NOV Attachment A Photo 4



Corrective Actions:

- Temporary Plastic Cover installed to stabilize the toe of the slope
- Check dams and drainage inlet cleaned out of sediment
- Improved drainage from access road to prevent further erosion
- Check dams installed on road

Future Actions:

- Maintain plastic cover until construction season at toe of slope
- Repair erosion damage on slopes and install Straw and Tack when conditions allow



Corrective Action Photo 4A: DSA was stabilized with straw and plastic cover has been installed to convey water along the toe of slope to the drainage inlet. Looking north along Highway 101 at the base of the U1-Line



Corrective Action Photo 4B: Looking north along Highway 101 at the base of the U1-Line near the inlet for Drainage System 7

During Rain: Daily Total 0.39"



Corrective Action Photo 4C: Looking north along Highway 101 at the base of the U1-Line



Corrective Action Photo 4D: Looking west at the inlet to Drainage System 7 at the base of the U1-Line

NOV Attachment A Photo 5



Corrective Actions:

- Covered eroded slopes with Temporary Plastic Cover
- Covered V-Ditch with Plastic Cover and replaced check dams
- Improved site drainage with 4 overside drains with gravel berm to drain U2-line of Highway runoff and stormwater
- Blew straw on above the U2-Slope

Future Action:

- Repair erosion damage on slopes and install Straw and Tack when conditions allow



Corrective Action Photo 5A: Looking south at the U2-Line near the inlet to Drainage System 23



Corrective Action Photo 5B: Looking North along the U2-Line at the inlet to Drainage System 23



Corrective Action Photo 5C: Looking south along the U2-Line



Corrective Action Photo 5D: Straw blown to cover DSA above the U2-Line

During Rain: Daily Total 0.69"



Corrective Action Photo 5E: Looking west at the U2-Line near the inlet to Drainage System 23

NOV Attachment A Photo 6



Corrective Actions:

- Cleaned sediment out of check dams and drainage inlet
- Stabilized DSA with filter fabric and 3-6" drainage rock



Corrective Action Photo 6A: Drainage inlet has been stabilized with 3-6" drain rock, filter fabric and gravel bags. Looking south along Highway 101 at the base of the U1-Line



Corrective Action Photo 6B: Looking north along Highway 101 at the base of the U1-Line



Corrective Action Photo 6C: Crew installing the filter fabric prior to the 3-6" rock installation. Looking north along Highway 101 at the base of the U1-Line

During Rain: Daily Total 2.28"



Corrective Action Photo 6D: Drainage inlet has been stabilized with 3-6" drain rock, filter fabric and gravel bags. Looking south along Highway 101 at the base of the U1-Line during the rain

NOV Attachment A Photo 7



Corrective actions:

- Installed drainage pipe to drain the H-Line
- Improved site drainage with $\frac{3}{4}$ " drain rock berms along road side to direct water into basin.
- Lined roadside with plastic cover and gravel bag check dams
- Covered slope with Temporary Plastic Cover
- Replaced check dams and removed sediment

Future Actions:

- Repair erosion damage on slopes and install Erosion control mat, fiber rolls, and seed when conditions allow



Corrective Action Photo 7A: Pictured is the same location in the NOV Attachment A Photo 7 with a ¾" gravel berm, temporary plastic cover and a drainage pipe installed. Looking north from the intersection of the H-Line and the winter access road at the South Haehl Interchange



Corrective Action Photo 7C: Looking west at the H-Line with gravel berms and plastic cover conveying water off the road

During Rain: Daily Total 2.28"



Corrective Action Photo 7C: Looking north from the intersection of the H-Line and the winter access road at the South Haehl Interchange

NOV Attachment A Photo 8



Actions Taken

- Improved site drainage with $\frac{3}{4}$ " drain rock berms at the top of Bridge Number 10-0129 RL Abutments and culvert road to divert water off the road and into overside drains
- Blew straw on Bridge Number 10-0129 RL Southern Abutments for additional erosion protection
- Two overside drains installed to drain Bridge Number 10-0129 RL Southern Abutments
- Replaced overside drain under roadway to aid in draining the road

Current Actions:

- Stabilize South Haehl Creek banks with $\frac{1}{4}$ ton RipRap
- Repair erosion damage on slopes and install Erosion control mat, fiber rolls, and seed when conditions allow

During Rain: Daily Total 0.39"



Corrective Action Photo 8A: Looking south at the culvert crossing winter access road at the South Haehl creek. Please refer to Corrective Action Photo 1A and 1D for further corrections

NOV Attachment A Photo 9



Corrective Action:

- Pump out stormwater from basins and trucking to Willits Wastewater Treatment Plant to minimize / eliminate discharge at this location and D.S. 23
- RSP repositioned
- Gravel bag check dam place at location water bypassing RSP

Future Action:

- Modify RSP drainage with equipment when conditions allow
- Repair erosion damage on slopes and install Erosion control mat, fiber rolls, and seed when conditions allow

During Rain: Daily Total 2.28"



Corrective Action Photo 9A: Looking west along South Haehl Creek at Drainage System 27. RSP has been repositioned and a gravel bag berm has been installed to eliminate water bypassing the drainage



Corrective Action Photo 9B: Pumping water out of the Haehl Creek Interchange basins at the H-Line and winter access road intersection

Additional Measures:

- Bridge 10-0157 Abutments covered with Plastic Cover
- Additional overside drains and check dams installed on the subgrade
- Blew straw on exposed DSA project wide
- Willow wattles installed at Drainage System 51



Additional Corrective Action Photo 1: Plastic cover at Bridge 10-0157 Abutment 1



Additional Corrective Action Photo 2: Looking south at the AN-Line with gravel bars and gravel bag check dams. Photo at Station 36+40



Additional Corrective Action Photo 3: Straw blown to cover DSA at Drainage System 37



Additional Corrective Action Photo 4: Willow Wattles installed at Drainage System 51 at Baechtel Creek