



# STORMWATER INFRASTRUCTURE

COMMUNITY RESPONSIBILITY

# EAST MAIN STREET AUGUST 13<sup>TH</sup>, 2013

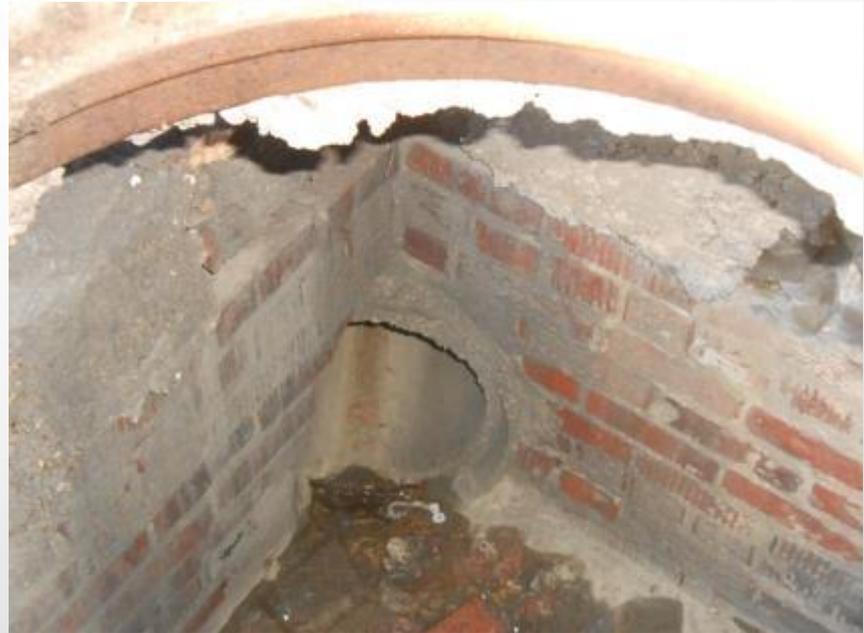


# EAST MAIN STREET AUGUST 13, 2013



# EAST MAIN STREET – INLET 366

NEAR 133 EAST MAIN STREET  
24" DIAMETER INFLOW PIPE ,  
15" DIAMETER OUTFLOW PIPE



# EAST MAIN STREET – MANHOLE 78

BETWEEN HAINES AND CENTER  
STREETS

UTILITIES CROSSING THROUGH  
MANHOLES

PHOTO LOOKING INTO  
MANHOLE 78 FROM STREET  
LEVEL.



# EAST MAIN STREET BLOCKAGE

JUST WEST OF ACADEMY STREET

INTERNAL PIPE PHOTO LOOKING  
UPSTREAM FROM INLET 66

UTILITY CROSSING THROUGH  
PIPE WITH DEBRIS

ACCUMULATION. NO METHOD  
OF ACCESS FOR DEBRIS  
REMOVAL



# PIPE PROTRUSION DOWNSTREAM OF MH1-D

HDPE FROM EAST; CMP FROM  
WEST



# SANITARY SEWER CROSSING STORM CHANNEL

SANITARY SEWER MAIN  
CROSSING STONE STORM  
CHANNEL AT EAST END OF KELLS  
AVENUE TO BE ADDRESSED BY  
SANITARY SEWER PROJECT



# JULIE LANE – END SECTION 69

VEGETATION AND YARD WASTE  
BLOCKING THE OUTLET.



# PAPER MILL ROAD CULVERT

THE EXISTING CORRUGATED  
METAL PIPE IS PARTIALLY  
BLOCKED BY SEDIMENT AND PIPE  
FRAGMENTS. THE PIPE  
CONDITION IS SEVERELY  
DETERIORATED.



# TIMBERLINE CULVERT

TIMBER CREEK CULVERT IS  
UNDERSIZED CAUSING THE  
ROAD TO OVERTOP DURING  
HEAVY RAINFALL



# RIDGEWOOD GLEN STORMWATER POND

THE EMBANKMENT FOR THIS POND FAILED IN 2013 DUE TO FAILURE OF THE OUTFALL PIPE THROUGH THE EMBANKMENT. THERE ARE SEVERAL HOUSES WHICH FRONT CREEK BEND DRIVE IMMEDIATELY DOWNSTREAM FROM THE FAILING EMBANKMENT.



THE EXISTING CORRUGATED  
METAL PIPE SECTION THROUGH  
THE POND EMBANKMENT WAS  
REPLACED WITH REINFORCED  
CONCRETE IN THE FALL OF 2013.



# RIDGEWOOD GLEN STORMWATER POND

A VIEW OF THE  
RECONSTRUCTED STORMWATER  
EMBANKMENT AFTER PROJECT  
COMPLETION. THIS PROJECT  
COST APPROXIMATELY \$75,000



# RIDGEWOOD GLEN STORMWATER POND

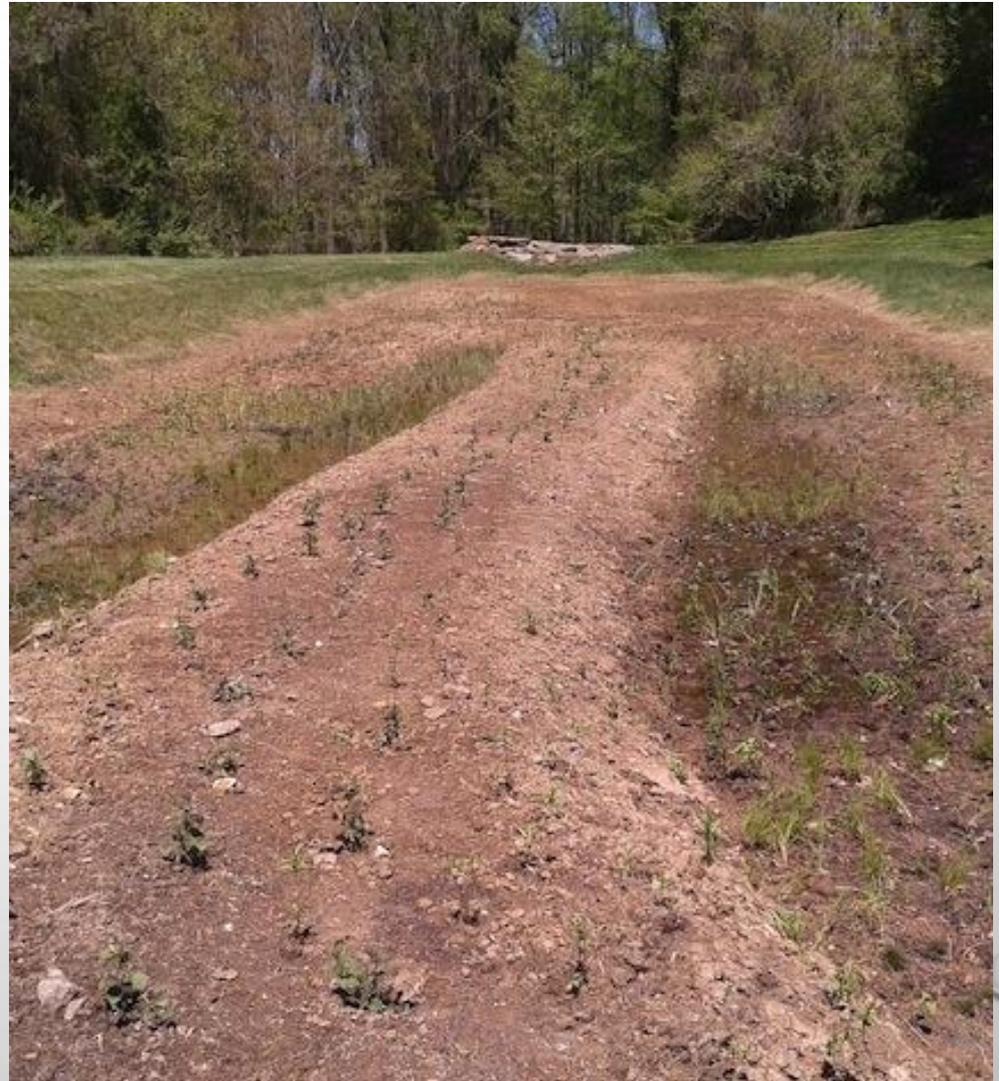
GRADING AND SURFACE  
RESTORATION FOLLOWING  
PROJECT COMPLETION.

THIS IS ONE OF MANY  
CORRUGATED METAL POND  
OUTFALL PIPES WHICH WILL  
NEED TO BE REPLACED WITHIN  
THE NEXT 10 YEARS



# BEFORE PICTURES

OF THE STORM  
RETROFIT PROJECT  
AT HUNT OF  
LOUVIERS



# AFTER PICTURES

A VARIETY OF  
FAUNA WERE  
USED INCLUDING  
LOCAL PLANTS



# AFTER PICTURES

A VARIETY OF  
FAUNA WERE  
USED INCLUDING  
LOCAL PLANTS



# CASHO MILL ROAD AT BARKSDALE ESTATES

EROSION OF PEDESTRIAN  
WALKWAY FROM STORMWATER  
RUNOFF CAUSING A  
HAZARDOUS CONDITION.



# CASHO MILL ROAD AT BARKSDALE ESTATES

ANOTHER ANGLE SHOWING  
THE UNDERMINED WALKWAY



# CHRYSLER AVE AND SHULL DR 8/13/13

SEVERE FLOODING EXPERIENCED  
IN DEVON PLACE DURING THE  
MORNING STORM OF AUGUST  
13<sup>TH</sup>, 2013.



**CHRYSLER AVE  
AND SHULL DR  
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# CHRYSLER AVE AND SHULL DR - 8/13/13

SHULL DRIVE LOOKING NORTH  
FROM THE INTERSECTION WITH  
LEEDS LANE FOLLOWING THE  
STORM ON AUGUST 13<sup>TH</sup>, 2013



# EAST MAIN STREET-8/13/13

WATER GUSHED OUT OF THIS  
MANHOLE ON EAST MAIN  
STREET NEAR THE NEWARK  
LIBRARY. THE GUSHING WATER  
INDICATES THAT THE SEWER  
SYSTEM COULD NOT PROPERLY  
HANDLE THE RAINFALL



# ACADEMY STREET – 1/31/14

LARGER PIPE IMPEDING THE  
FLOW OF THE DRAINAGE PIPE



# RODNEY UNDERPASS 8/13/13

THIS PHOTO WAS TAKEN AFTER  
THE RAINFALL BUT STILL SHOWS  
THE EXTENT OF THE FLOODING  
IN THE RODNEY UNDERPASS



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