

Cumberland County
Penn Township
Beetem Road



Before: Existing 4' concrete pipe was undersized and frequently caused water to overtop the paved road.

After: A 12' bottomless box culvert was installed and large rocks were selectively placed along the previously eroded bank. In addition to the new crossing, the project also included 500' of base repair and 8000' of underdrain. Disturbed sections of pavement were replaced as part of the project.



2018 Calendar The Center for Dirt & Gravel Roads

*Images submitted by PA Conservation Districts for the Center's 2017 photo contest.

Jefferson County
Warsaw Township
Crawford Road



BEFORE

Before: The existing metal stream culvert was severely undersized causing large erosion issues. Road drainage was poor with most of the road draining directly to the stream at the crossing.

After: A bankfull width “squash” or elliptical pipe was installed. The project also included road fill, several new ditch culverts and underdrain.



AFTER

January 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1 New Year's Day	2	3	4	5	6
7	8	9	10	11	12	13
14	15 Martin Luther King, Jr.	16	17 PACD/SCC WINTER MEETING <i>Toftrees Golf Resort & Conference Center</i> <i>State College, PA</i>	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

[illegible]



Before: Existing stream crossing consisted of twin 2' diameter metal pipes for a stream with an 18' bankfull width. Frequent flooding resulted in the installation of a second double pipe crossing about 30 yards down the road. All structures were in various states of failure.

After: An 18' arch pipe with a metal bottom was installed at the main crossing. The secondary channel was left in place, but was elevated so it will only engage in extremely high flow events. In-stream structures were used to align the stream flow, control the grade of the stream, and provide fish habitat. This project significantly improved the road and opened up over 8 miles of new trout habitat.



Cambria County
Summerhill Township
Lecks Road



February 2018

NOTES:

[illegible]

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
					Groundhog Day	
4	5	6	7	8	9	10
11	12	13	14	15	16	17
	Lincoln's Birthday		Ash Wednesday Valentine's Day			
18	19	20	21	22	23	24
	Presidents' Day			Washington's Birthday		
25	26	27	28			

Indiana County
Rayne Township
Tanoma Road

Before: The bank between the road and the creek has historically been unstable and continuously collapsed. The log vein in the stream was installed in a prior effort to stabilize the toe of the slope.



After: The township utilized a contractor to install soil nails and stabilize the bank. The finished project addresses erosion where the road and stream meet and provides a stable platform for needed guiderails. The township also installed underdrain in the ditch along the cut slope to keep spring water from saturating the road base.



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
Daylight Savings					St. Patrick's Day	
18	19	20	21	22	23	24
Spring 102/105 Technical Training—Basic/ Refresher						
Ramada Conference Center, State College, PA						
25	26	27	28	29	30	31
			BUTLER/ ALLEGHENY COUNTY ESM Training			
			DoubleTree by Hilton Hotel Pittsburgh— Cranberry—Mars, PA			
Palm Sunday					Good Friday	

[illegible]



BEFORE



Before: The existing 8' metal squash pipe in the 16' bankfull channel was 50% undersized. The result was stream bed and bank erosion, and restricted aquatic organism passage. In addition, the bottom of the pipe was gone and the crossing was not structurally sound.

Snyder County
Chapman Township
Arnold Road

After: A bottomless box culvert was installed in the channel. Total installation time was approximately one week. The final cost was around \$80,000.



AFTER

April 2018

NOTES:

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4	5	6	7
Easter Sunday						
8	9	10	11	12	13	14
			Spring 102/105 Technical Training— Topic –Based <i>Ramada Conference Center—State College, PA</i>			
15	16	17	18	19	20	21
		LANCASTER COUNTY ESM Training <i>DoubleTree Resort by Hilton Hotel Lancaster—Lancaster , PA</i>				
22	23	24	25	26	27	28
PA State Association of Township Supervisors Annual Conference <i>Hershey Lodge—Hershey, PA</i>						
Earth Day						
29	30					

Allegheny County
South Fayette Township
Sygan Road

Before: An existing 4' concrete pipe was installed to handle a 16' bankfull channel on this paved road. The result was erosion and frequent flooding issues.

After: The concrete pipe was replaced with a 16' aluminum box culvert. Rock lining was installed where erosion threatened the bank near the crossing.



May 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
		1	2	3	4	5
6	7	8	9	10	11	12
			CUMBERLAND COUNTY ESM Training <i>Premiere Event LLC—Shippensburg, PA</i>			
13	14	15	16	17	18	19
Mother's Day						
20	21	22	23	24	25	26
		SOMERSET COUNTY ESM Training <i>Seven Springs Mountain Resort—Champion, PA</i>				
27	28	29	30	31		
	Memorial Day					

NOTES:

[illegible]



Hendricks Road—Red Hill Borough—Montgomery County



Hedgehog Lane—Foster Township—McKean County

June 2018

NOTES:

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

-

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
					1	2
3	4	5	6	7	8	9
			POTTER COUNTY ESM Training <i>Coudersport Golf Club—Coudersport, PA</i>			
10	11	12	13	14	15	16
			SCHUYLKILL COUNTY ESM Training <i>The Lodge at Sharp Mountain—Pottsville, PA</i>			
				Flag Day		
17	18	19	20	21	22	23
Father's Day						
24	25	26	27	28	29	30



BEFORE

AFTER

Creek Road—Creek Licking Township—Fulton County



BEFORE

AFTER

Bear Mountain Road—Ekland Township—Sullivan County

July 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
1	2	3	4 Independence Day	5	6	7
8	9	10	11 VENANGO COUNTY ESM Training Cross Creek Golf Course & Con. Center—Titusville, PA	12	13	14
15	16	17	18	19	20	21
NACD Northeast Regional Meeting & PACD/SCC Joint Annual Conference Double tree Resort by Hilton Hotel, Lancaster, PA						
22	23	24	25	26	27	28
29	30	31				

NOTES:

[illegible]



BEFORE



BEFORE



AFTER



AFTER

Pine Swamp Road—Cleveland Township—Columbia County

Kessler Avenue—Mt. Jewett Borough—McKean County

August 2018

NOTES:

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
			1	2	3	4
			MONTGOMERY COUNTY ESM Training			
			Hilton Garden Inn—Oaks, PA			
5	6	7	8	9	10	11
12	13	14	15	16	17	18
		Ag Progress Days				
		Pennsylvania Furnace, PA				
19	20	21	22	23	24	25
		WAYNE COUNTY ESM Training				
		Ladore Retreat & Conference Center—Waymart, PA				
26	27	28	29	30	31	

Sayre, PA

Research Update
& CIG Project

Luau Award Banquet

Infiltration
Practices

SCC Policy/ Planning
Workgroup Update

Municipal Bidding
& Contracting

GIS Training

Post-Project
Maintenance

Taking Better
Project Photos

Outside the Box
Practices

Bud Byron Award

Admin Training

West Loop

Bradford County

East Loop

September 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3 Labor Day	4	5	6	7	8
9 Grandparents Day	10	11 Patriot Day	12	13	14	15
16	17	2018 ANNUAL MAINTENANCE WORKSHOP— INDIANA COUNTY Kovalchick Convention Center— Indiana, PA			21 Rosh Hashanah	22
23	24	25	26	27	28	29
30 Yom Kippur						

NOTES:

[illegible]



BEFORE



AFTER

South Hess Road—Thompson Township—Fulton County



BEFORE



AFTER

Team Road—McCalmont Township—Jefferson County

October 2018

NOTES:

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
	1	2	3	4	5	6
		BEDFORD/ FULTON COUNTY ESM Training <i>Forbes Road Conference Center—Breezewood, PA</i>				
7	8	9	10	11	12	13
	Columbus Day					
14	15	16	17	18	19	20
			LYCOMING COUNTY ESM Training <i>Holiday Inn Williamsport—Williamsport, PA</i>			
21	22	23	24	25	26	27
28	29	30	30	31		
				Halloween		



BEFORE



AFTER

Reller Road — Salford Township — Montgomery County



BEFORE



AFTER

Cold Spring Road — Dickinson Township — Cumberland County

November 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
				1	2	3
4	5	6	7	8	9	10
		CLEARFIELD COUNTY ESM Training				
Daylight Savings		Election Day				
11	12	13	14	15	16	17
Veterans Day						
18	19	20	21	22	23	24
				Thanksgiving Day		
25	26	27	28	29	30	

NOTES:

[illegible]



Skymount Lake — Marl Borough Township — Montgomery County

December 2018

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4	5	6	7	8
	Hanukkah				Pearl Harbor	
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
	Christmas Eve					
30	31					
	New Year's Eve	Christmas Day				

NOTES:

[illegible]