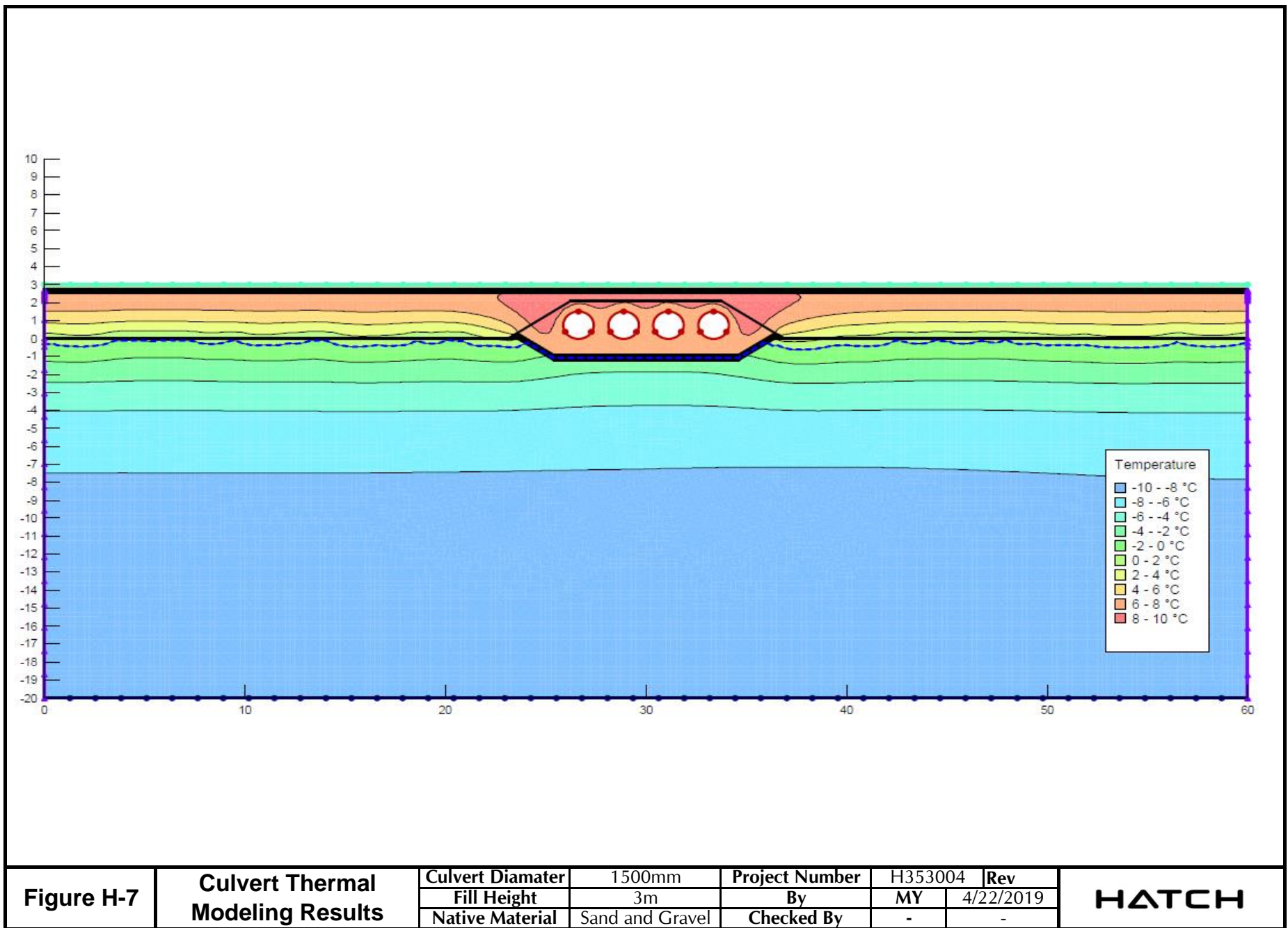


Figure H-7

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	2.7m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH



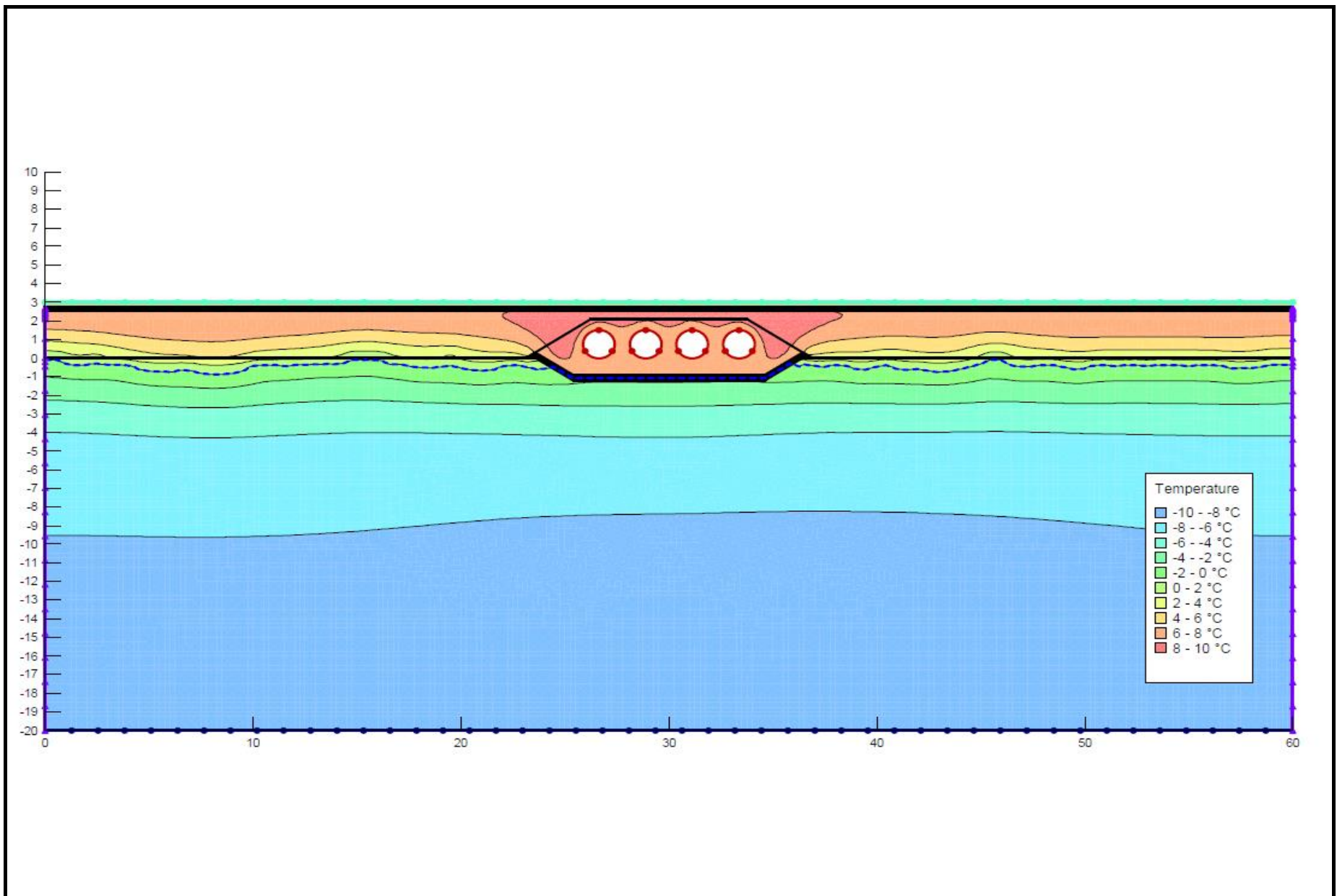
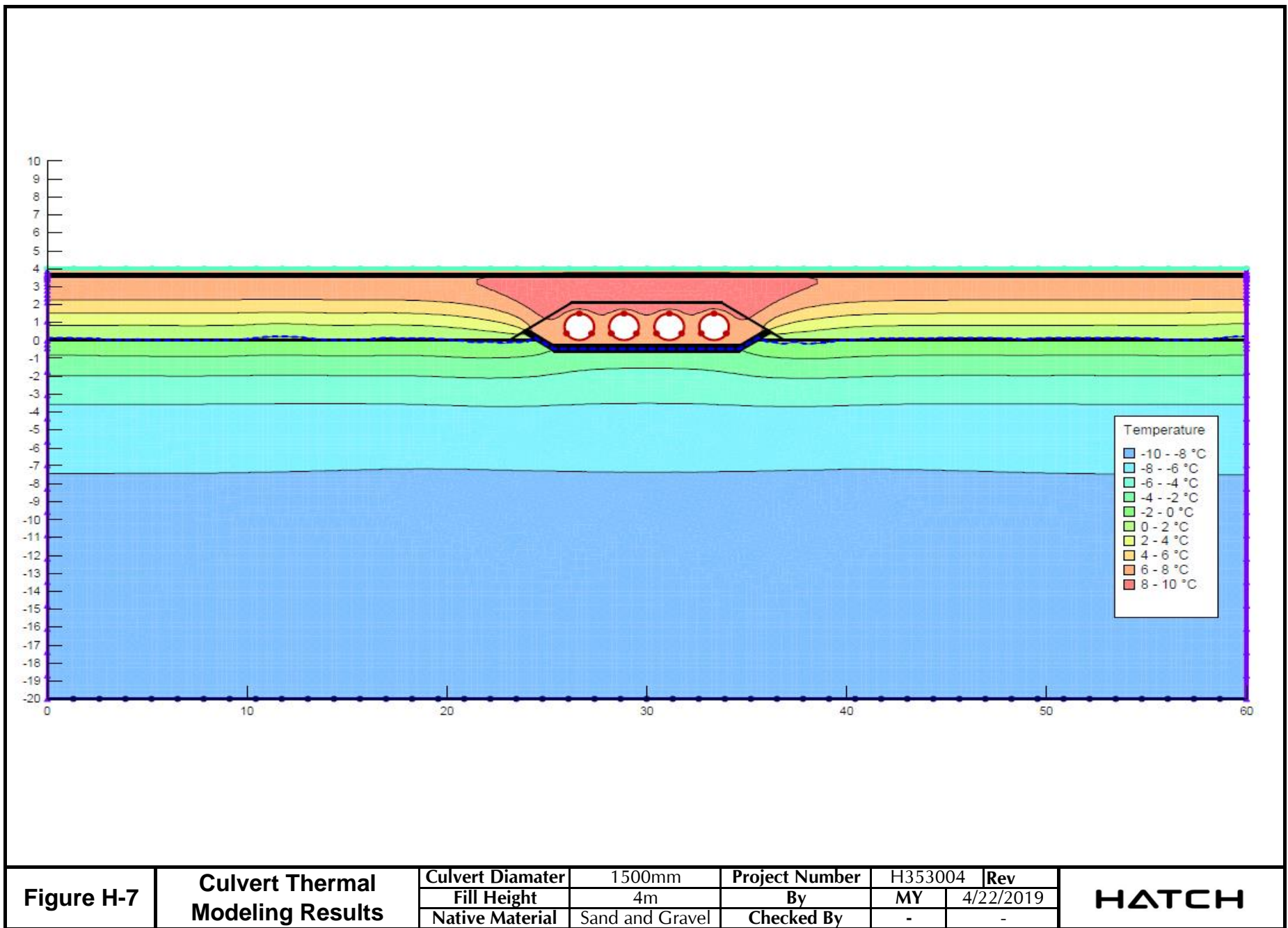


Figure H-7

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	3m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH



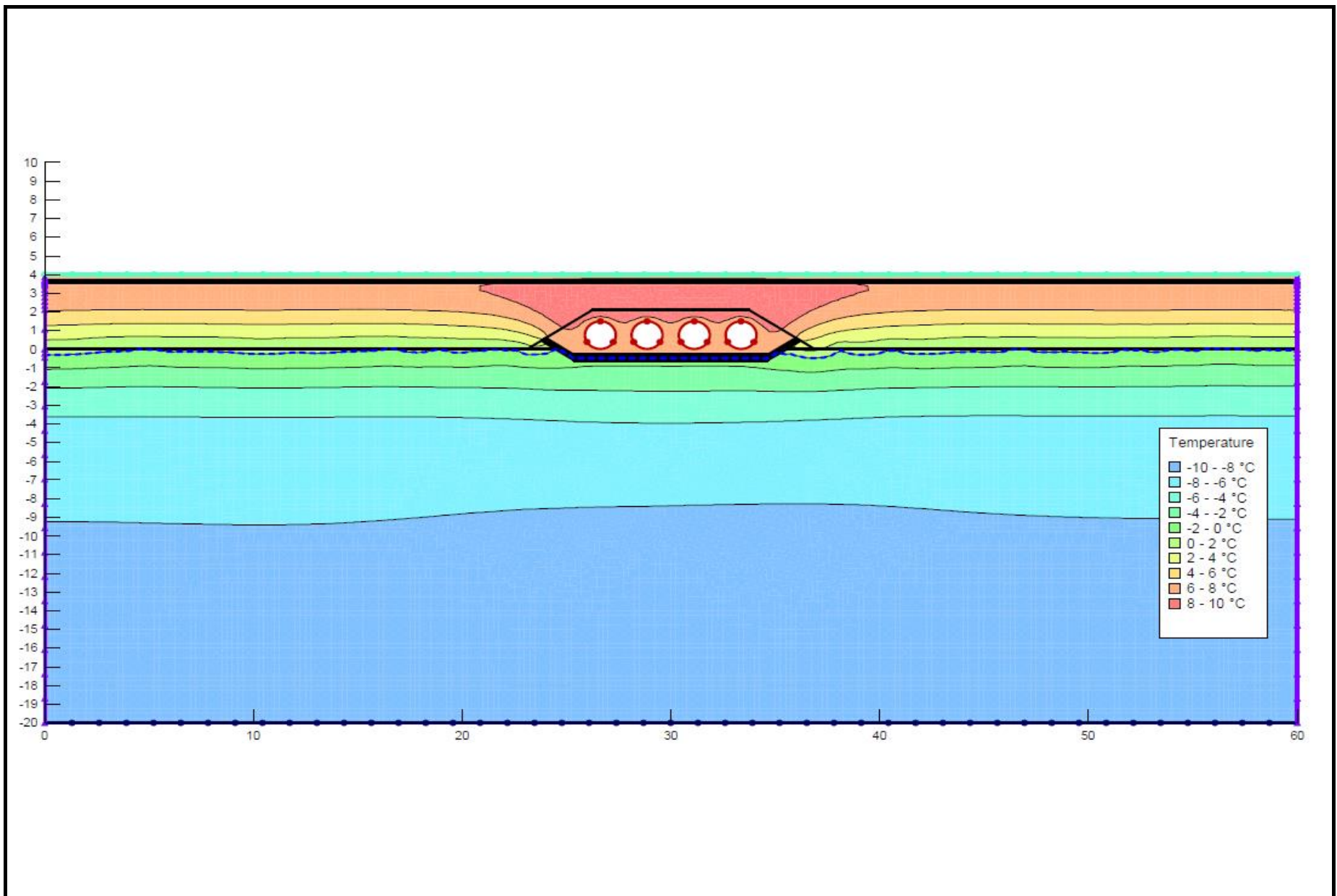


Figure H-7

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	4m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

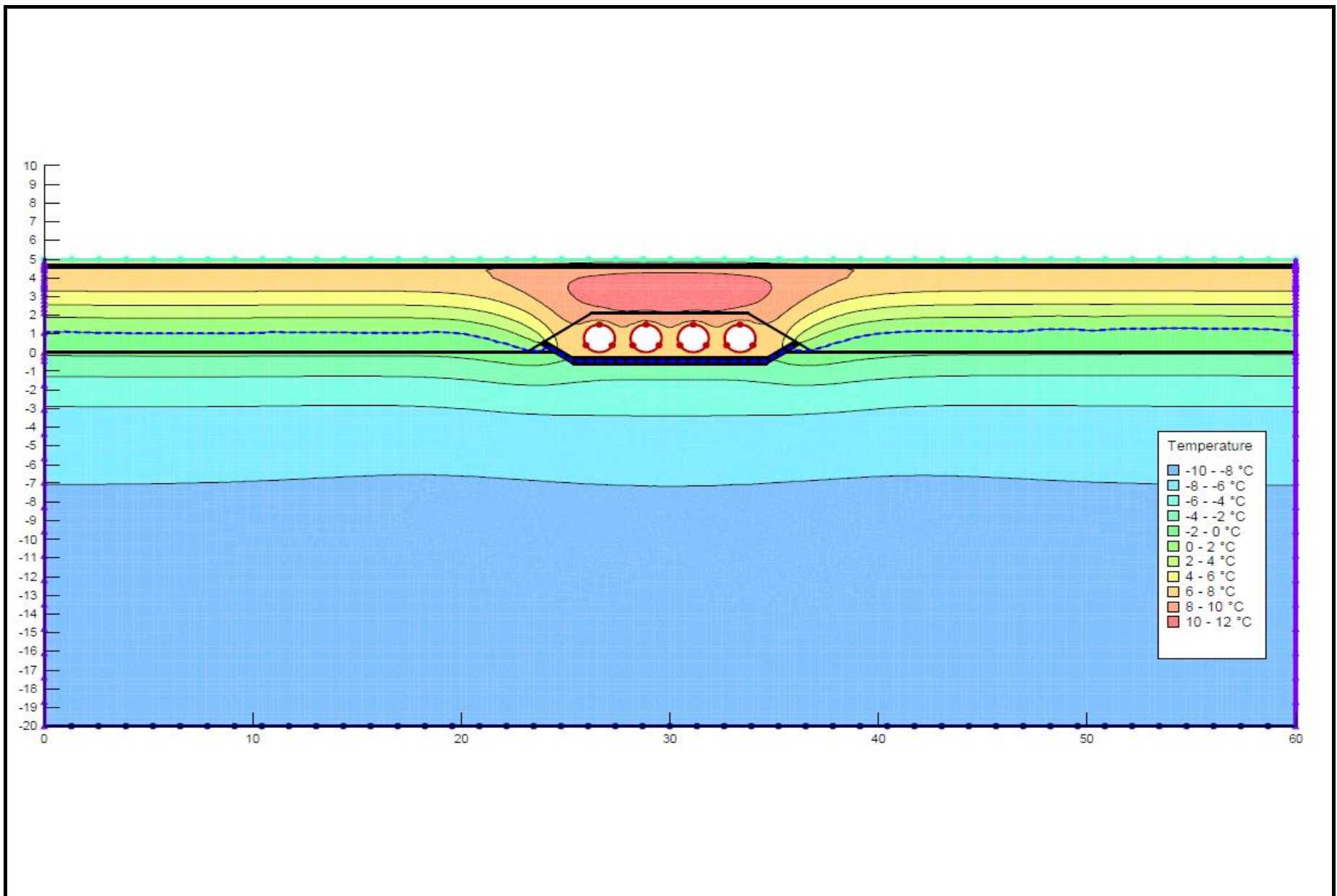


Figure H-7

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	5m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

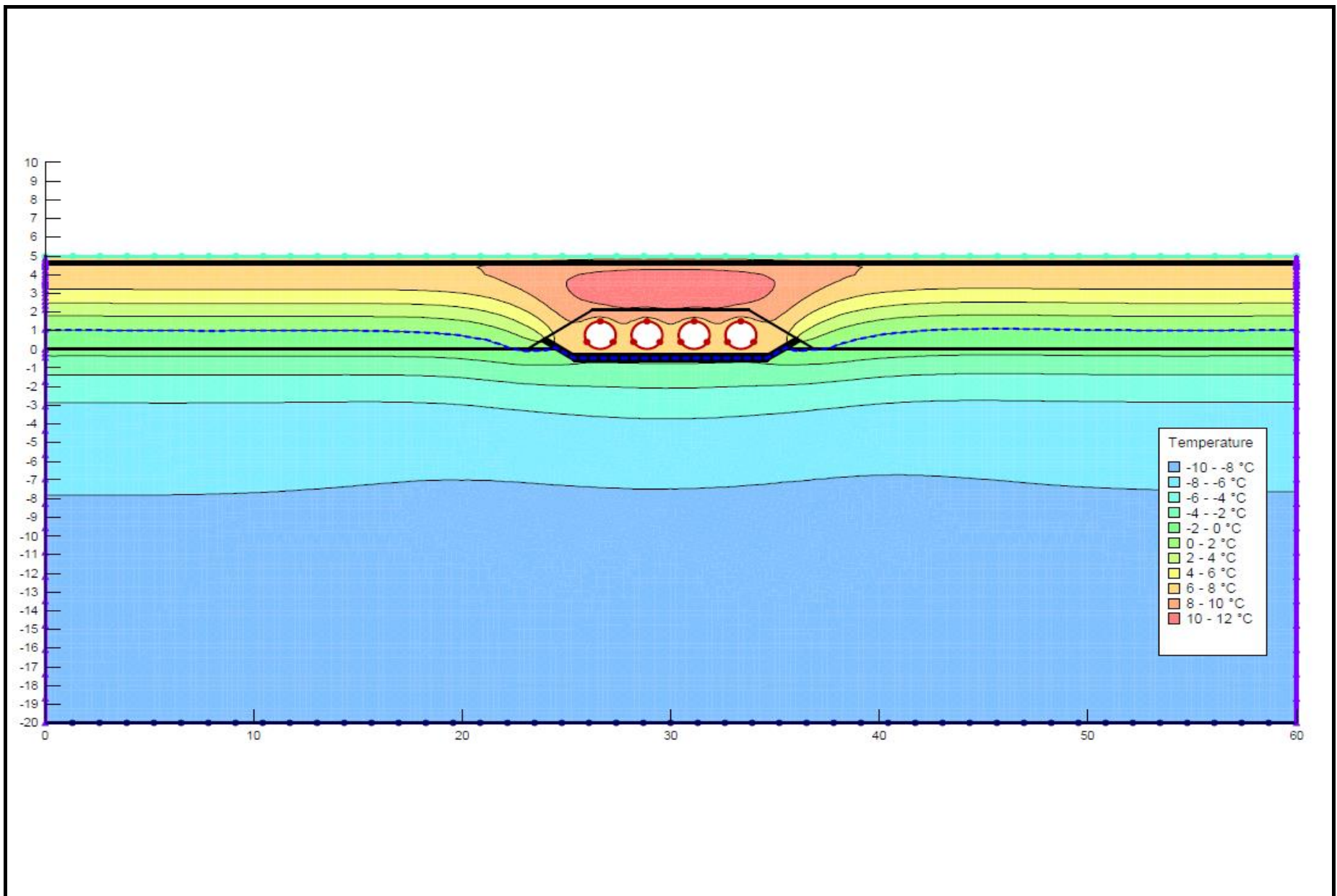
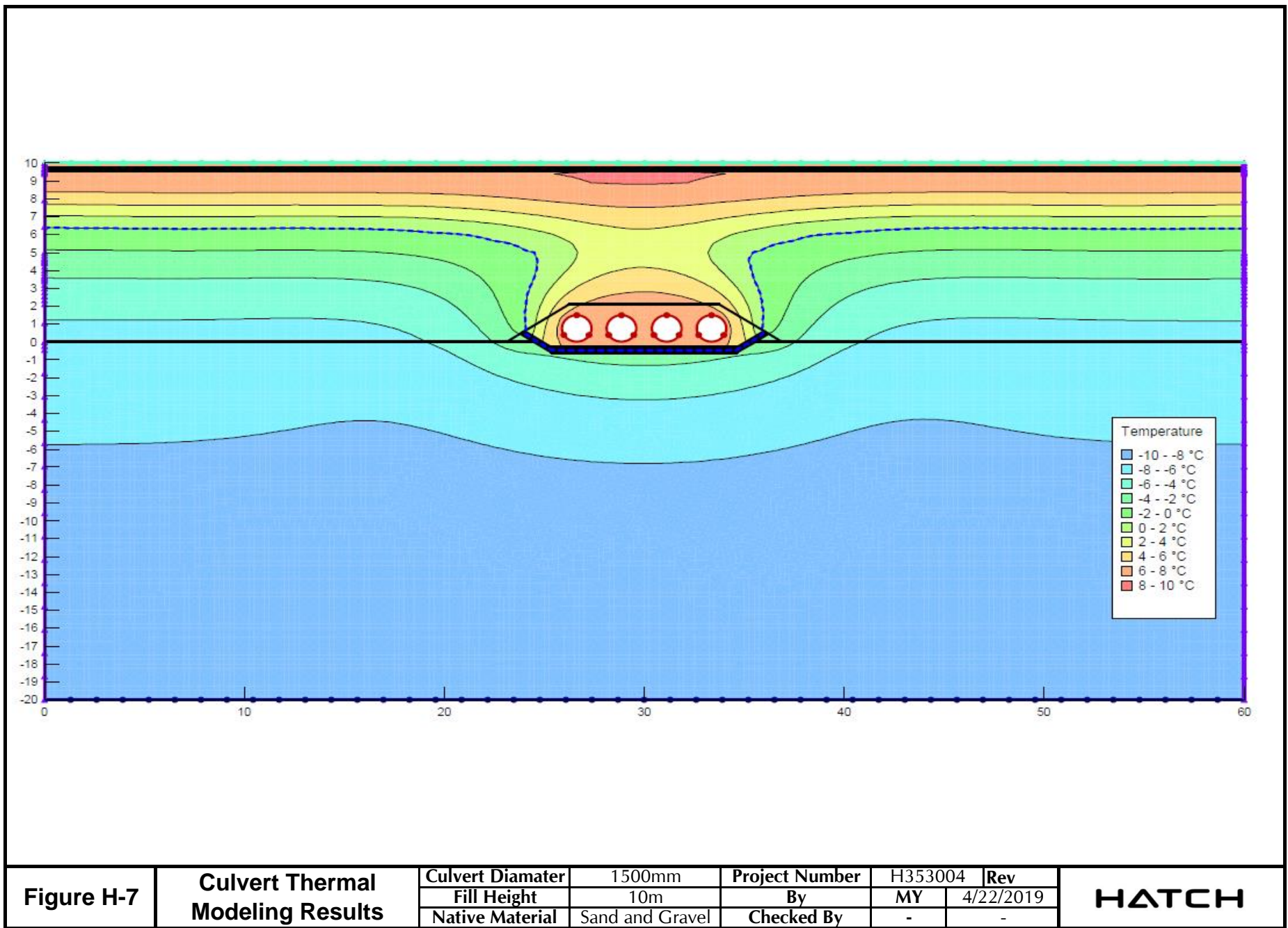


Figure H-7

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	5m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH



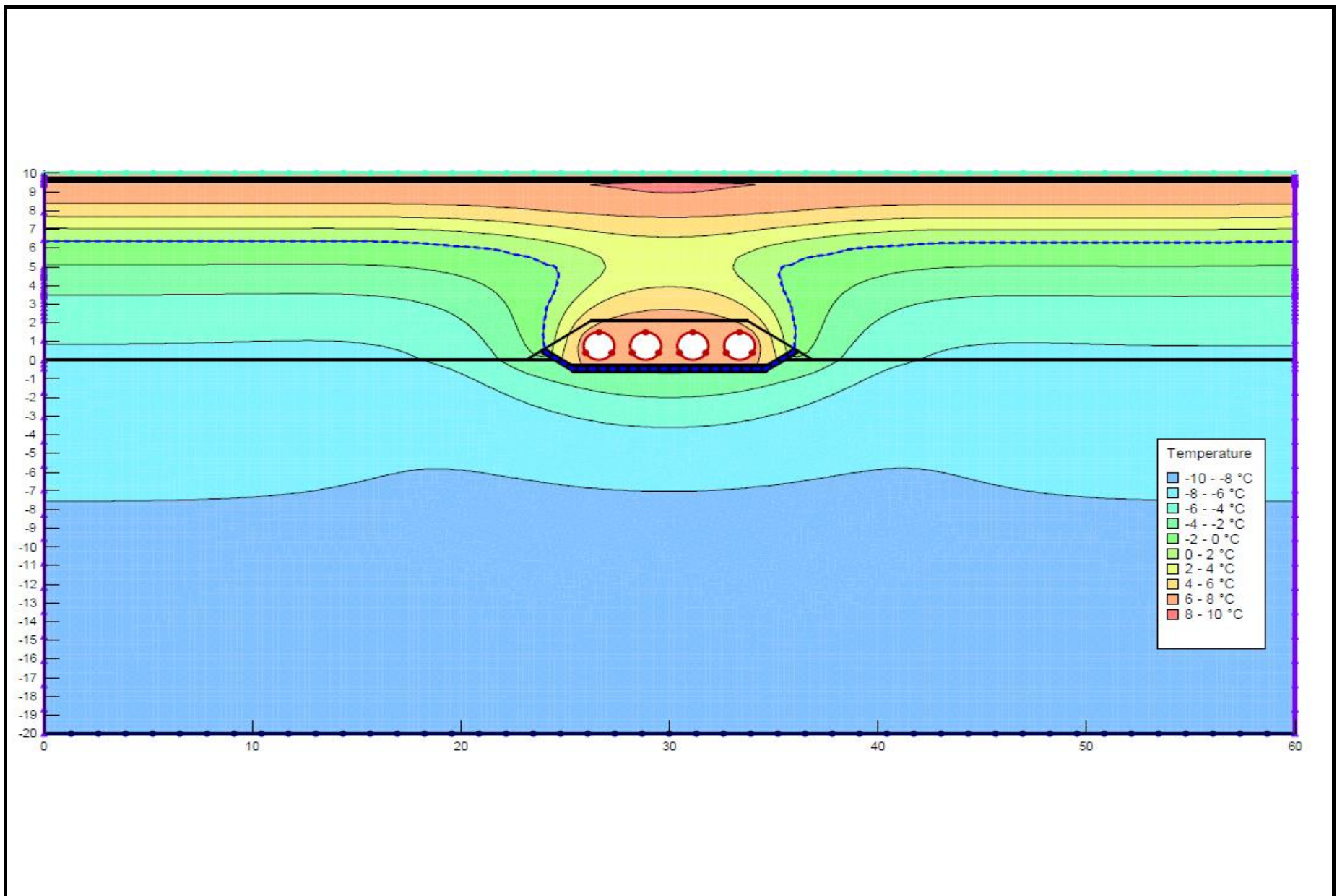


Figure H-7

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	10m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

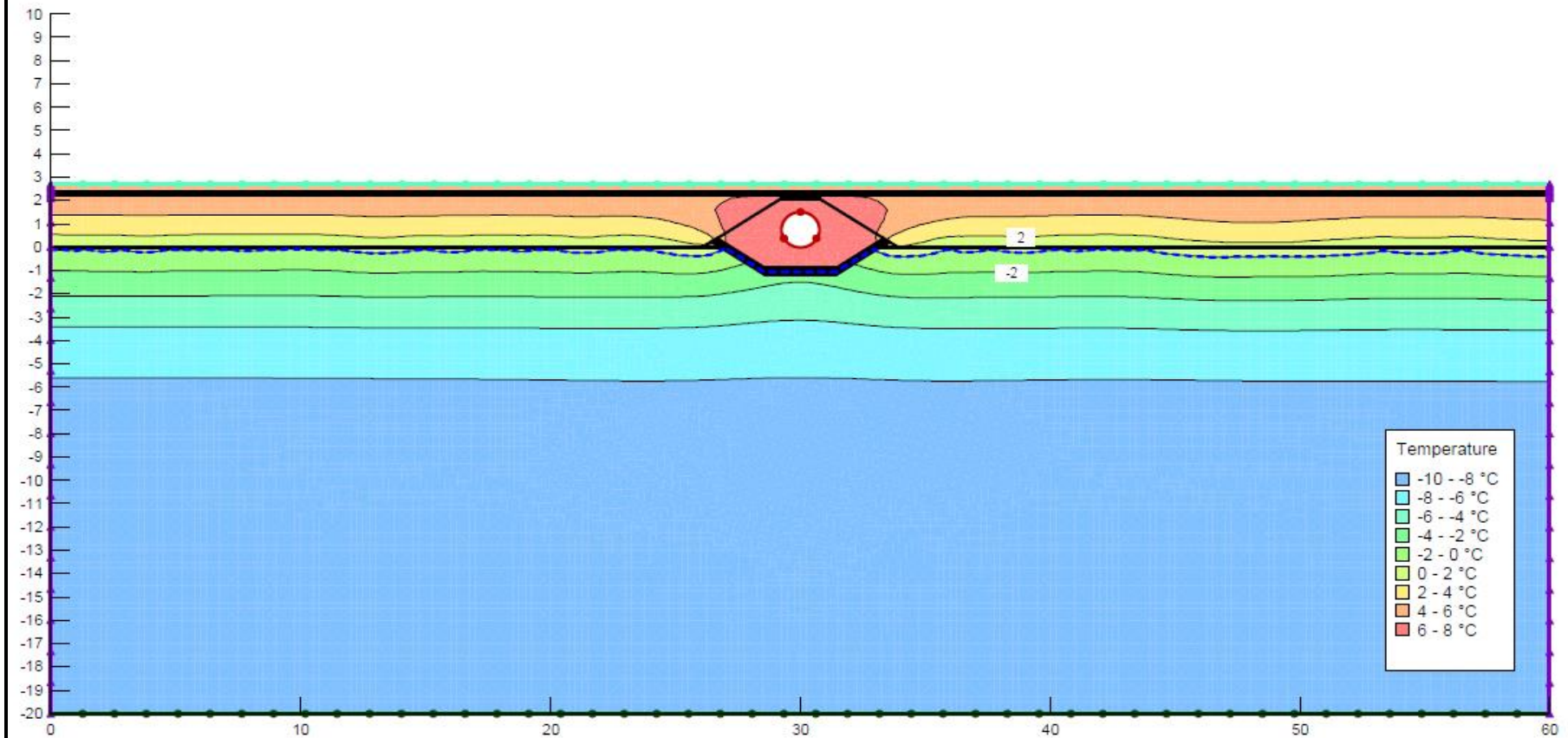


Figure H-8

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	2.7m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

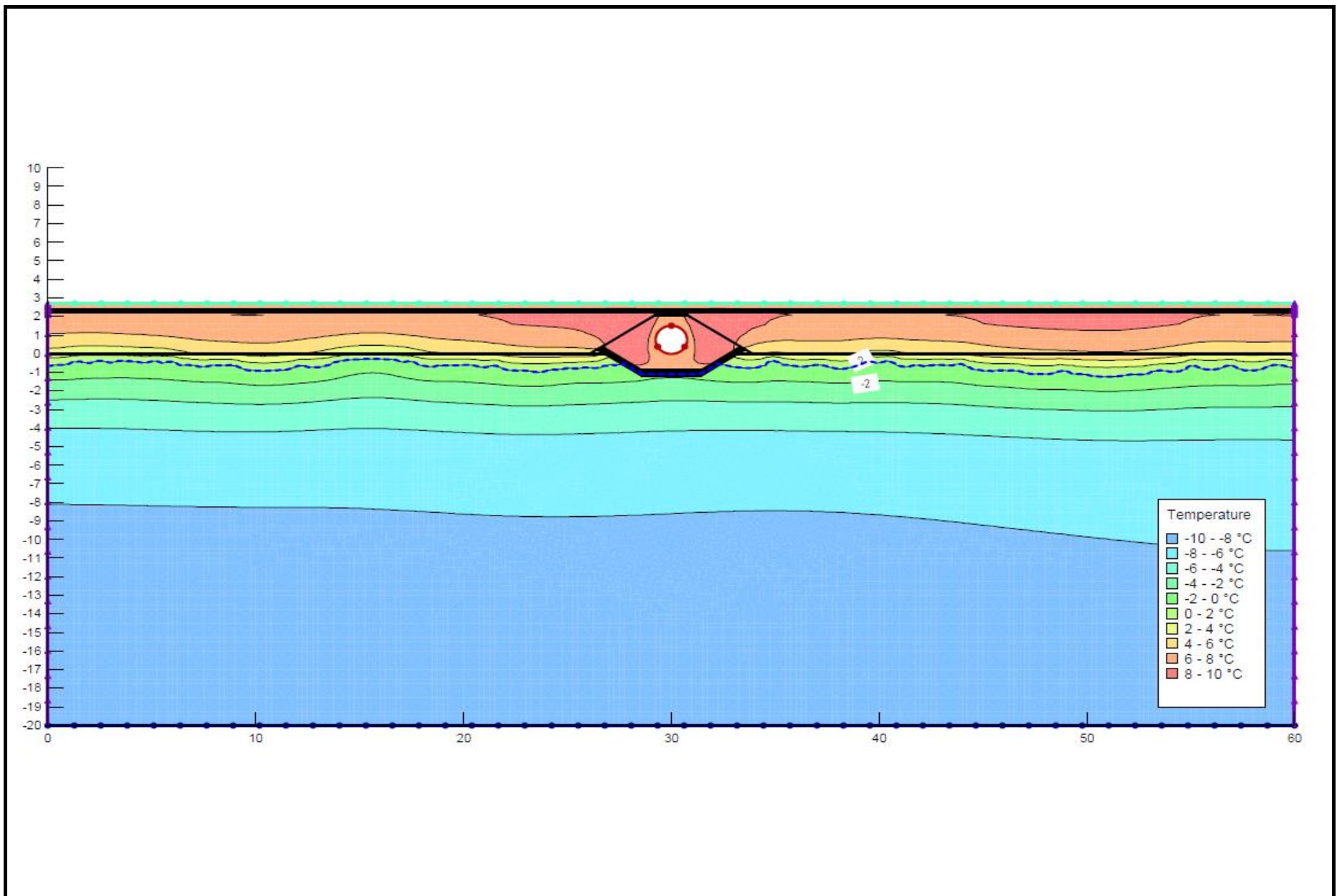


Figure H-8

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	2.7m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

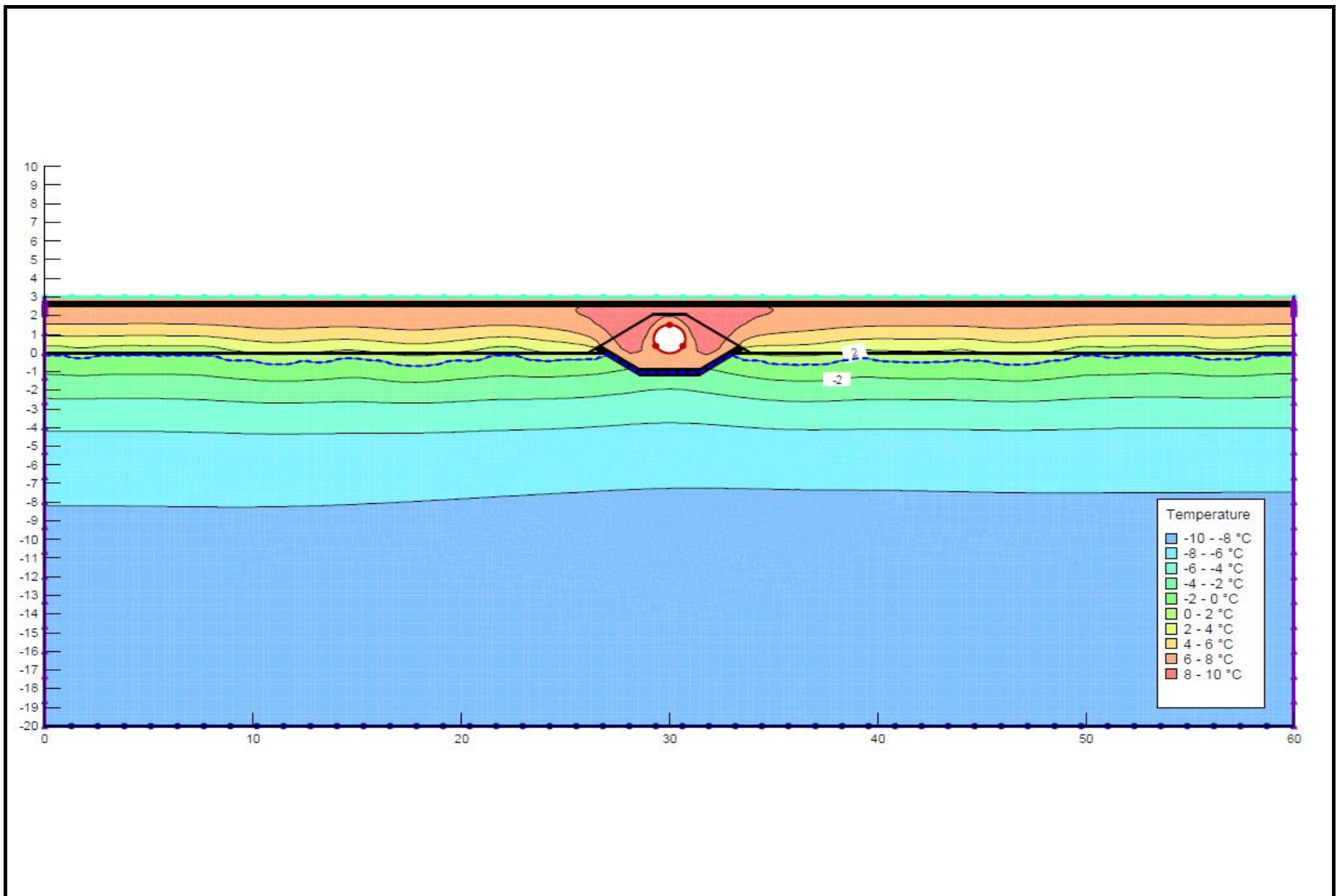


Figure H-8

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	3m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

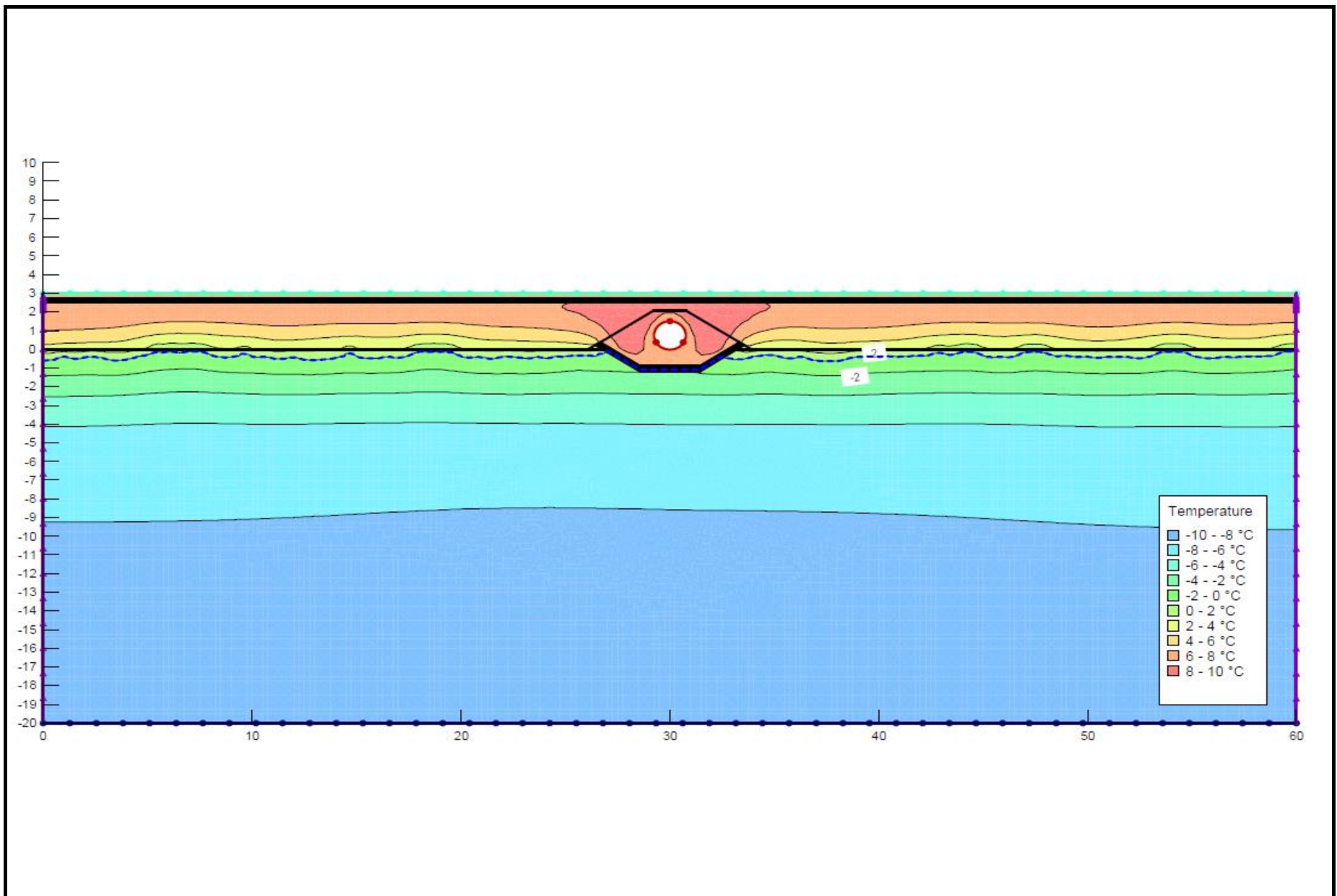


Figure H-8

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	3m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

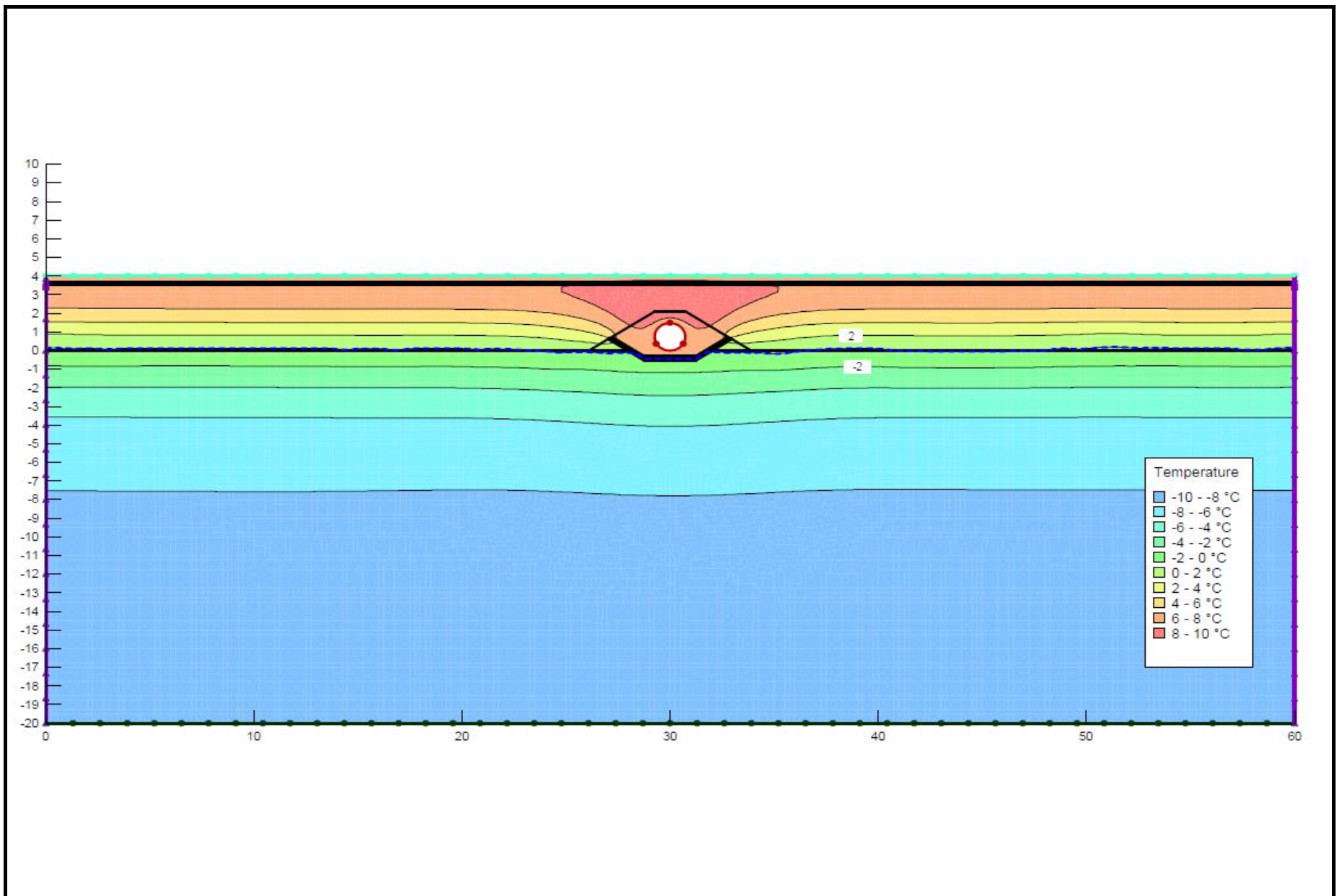


Figure H-8

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	4m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

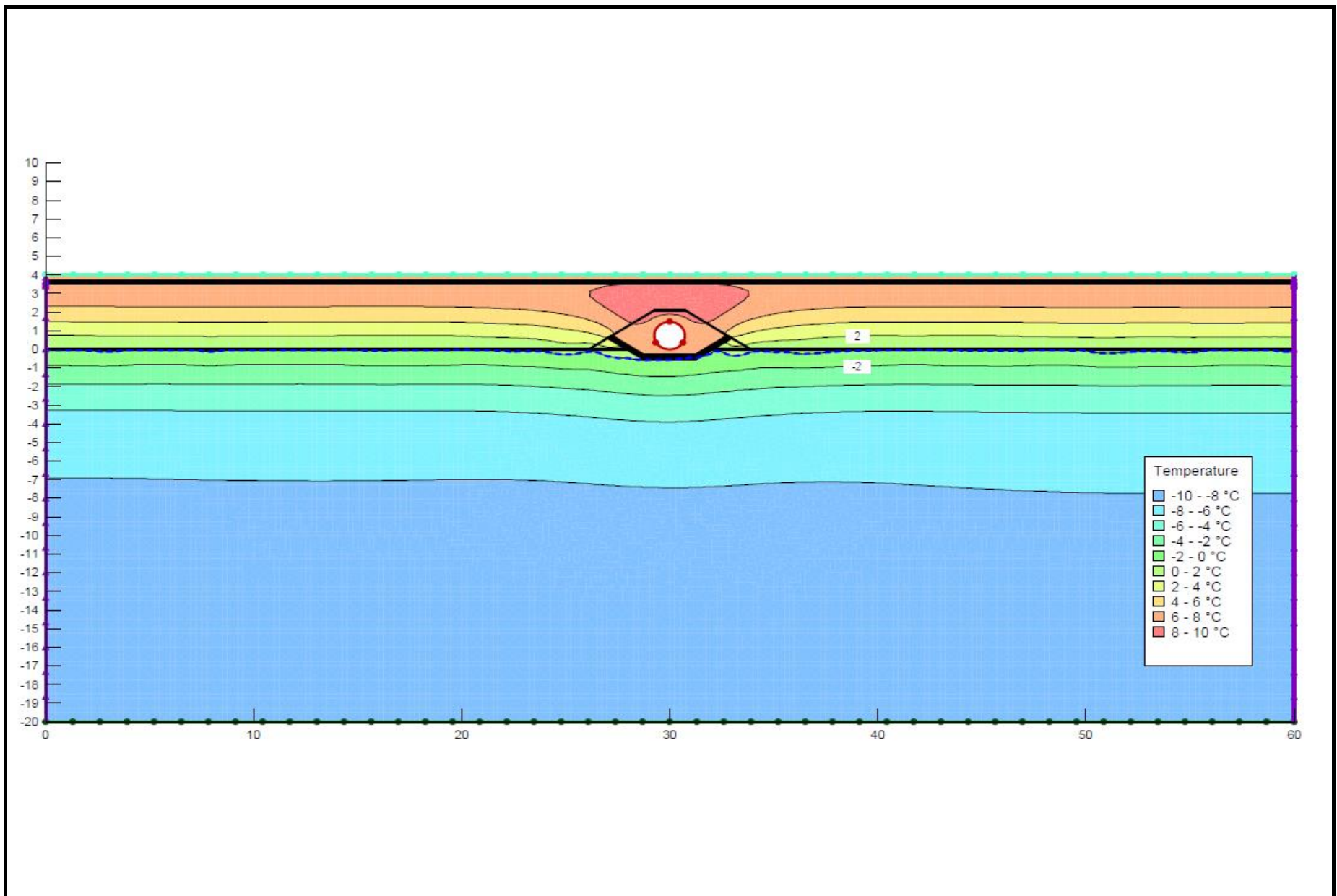


Figure H-8

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	4m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

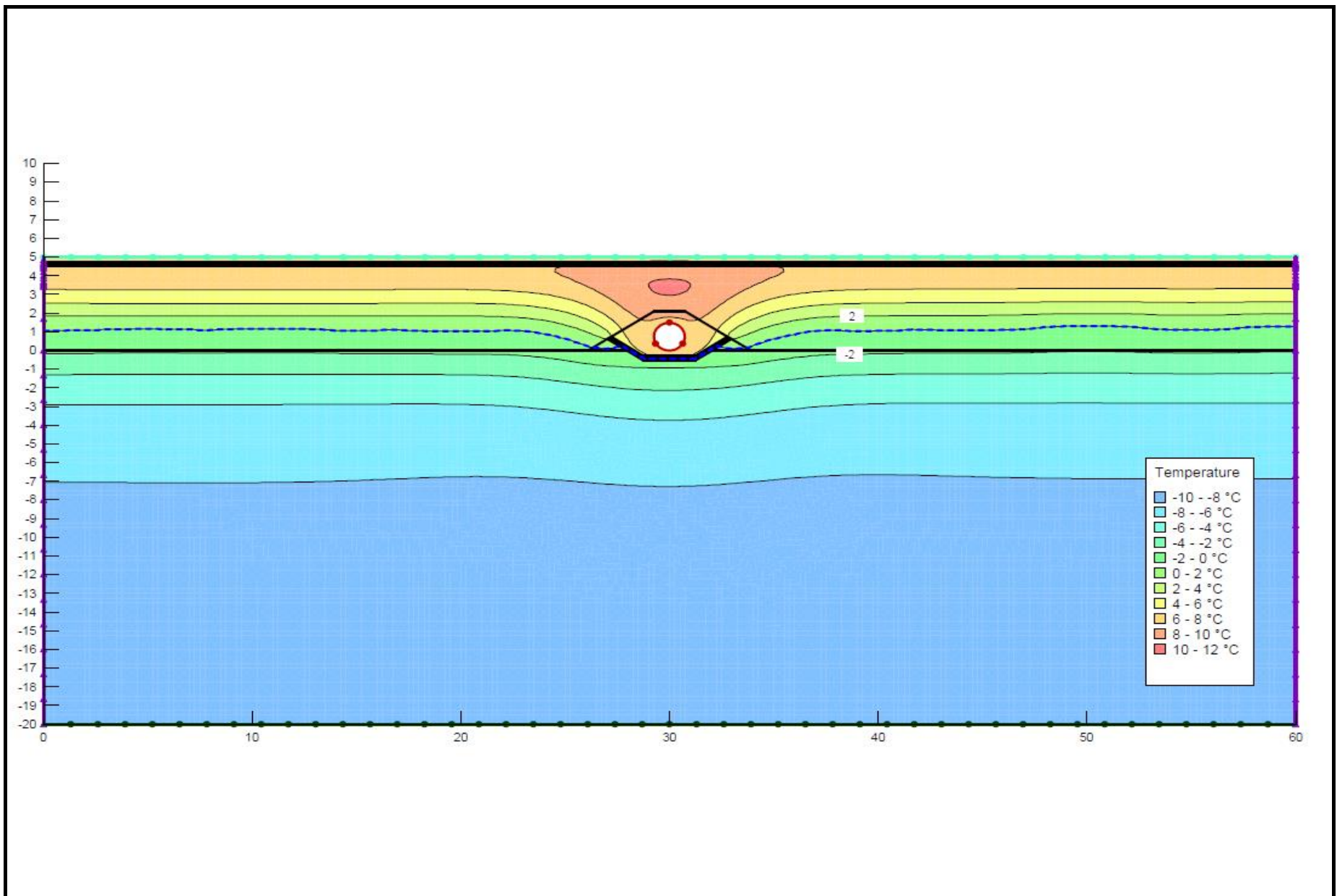


Figure H-8

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	5m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

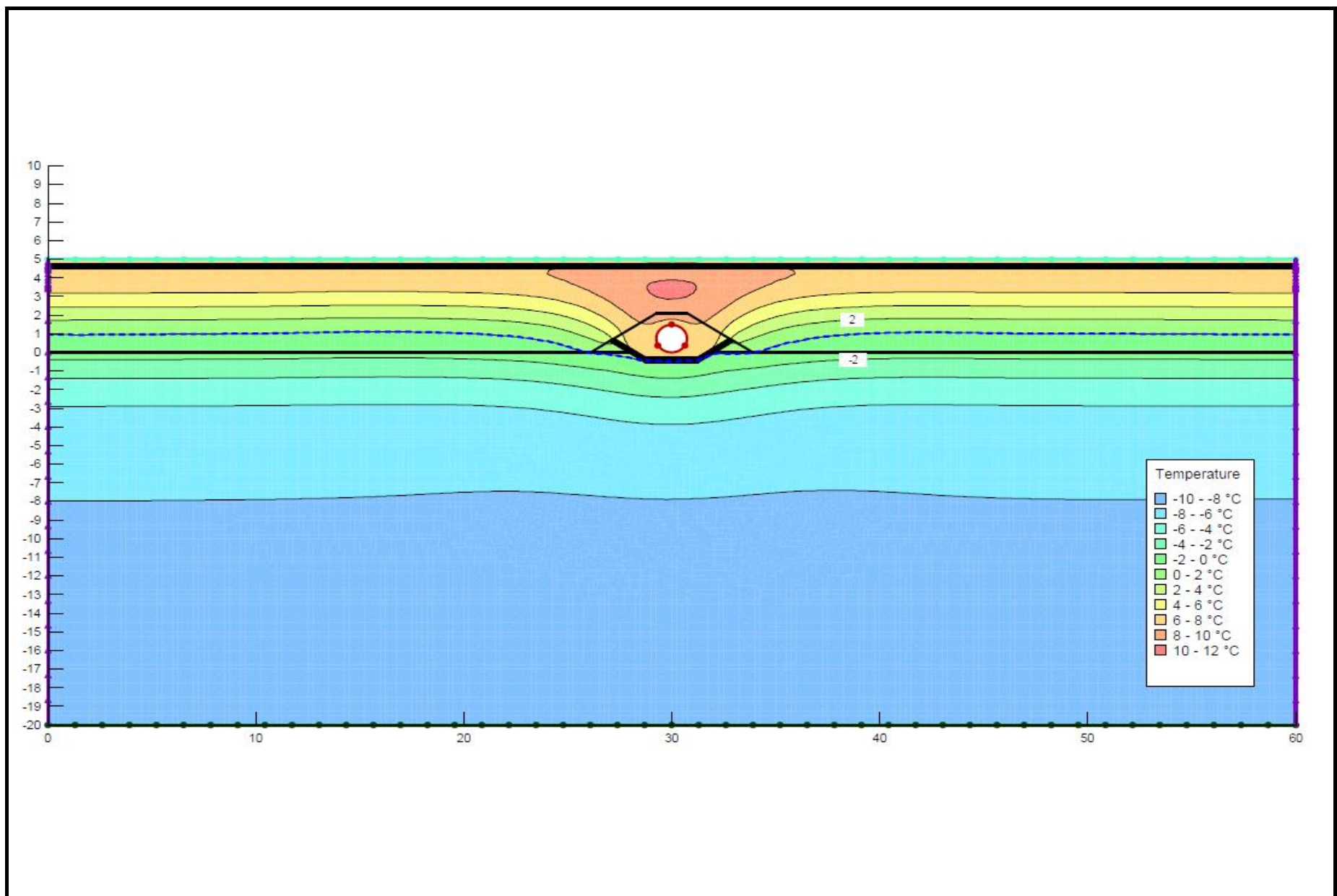


Figure H-8	Culvert Thermal Modeling Results	Culvert Diameter	1500mm	Project Number	H353004	Rev	HATCH
		Fill Height	5m	By	MY	4/22/2019	
		Native Material	Silt	Checked By	-	-	

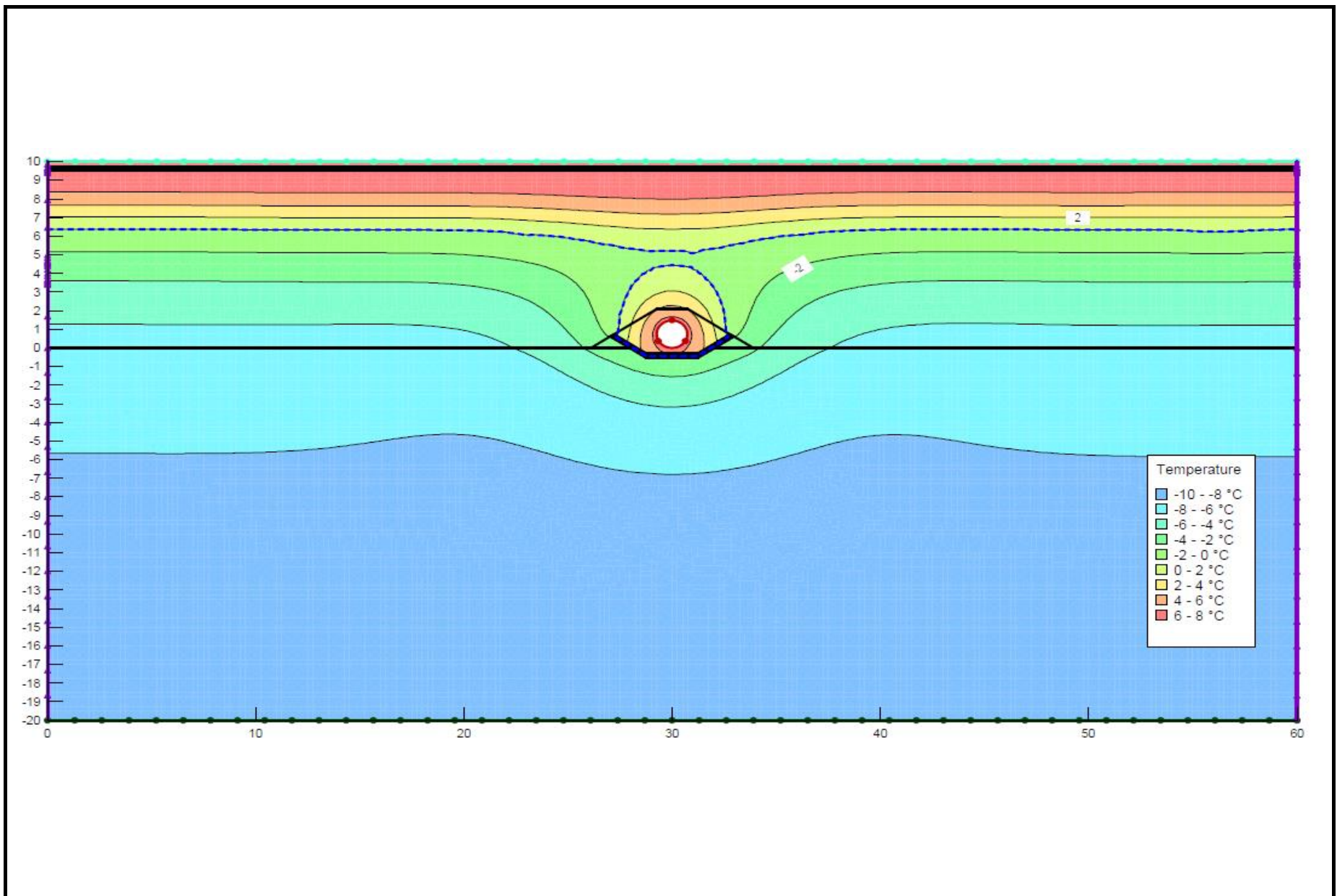


Figure H-8	Culvert Thermal Modeling Results	Culvert Diamater	1500mm	Project Number	H353004	Rev	HATCH
		Fill Height	10m	By	MY	4/22/2019	
		Native Material	Sand and Gravel	Checked By	-	-	

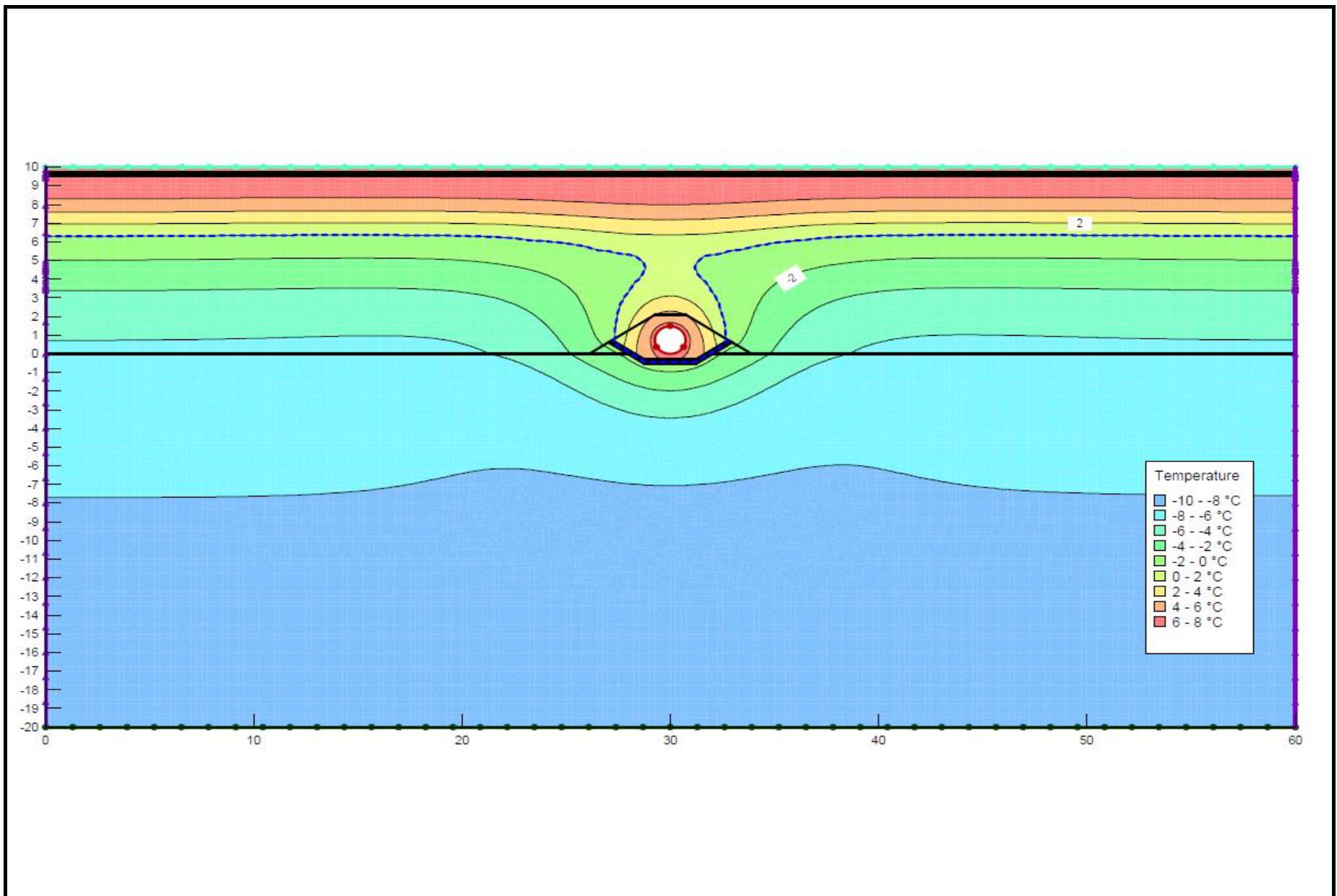


Figure H-8

**Culvert Thermal
Modeling Results**

Culvert Diameter	1500mm	Project Number	H353004	Rev	
Fill Height	10m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

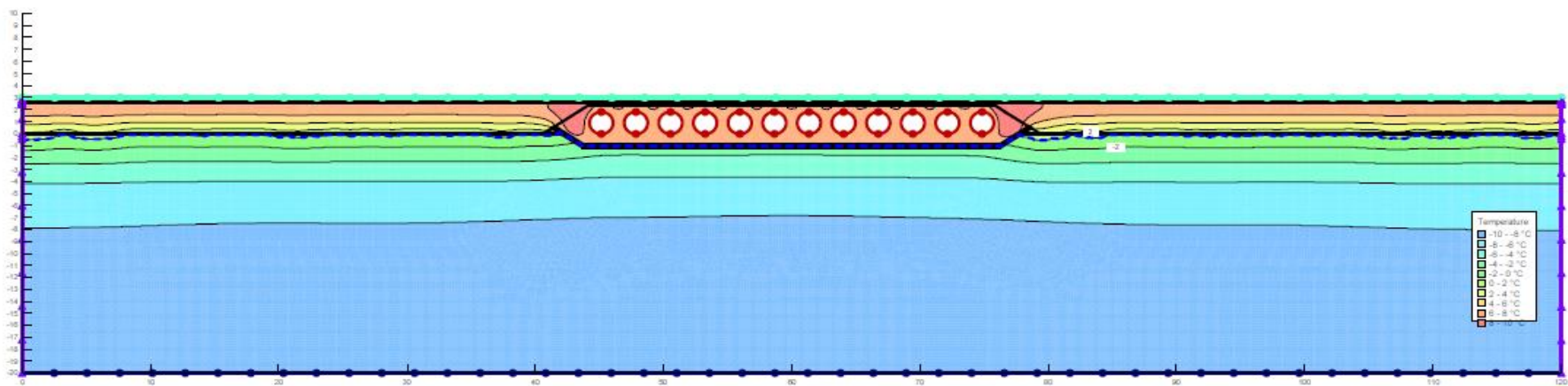


Figure H-9

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	3m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

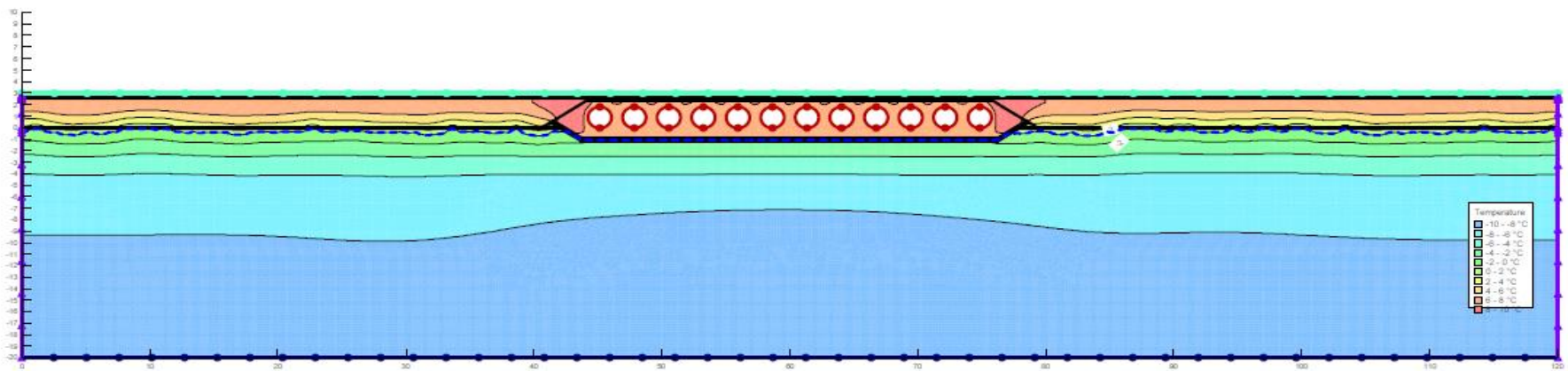


Figure H-9

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	3m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

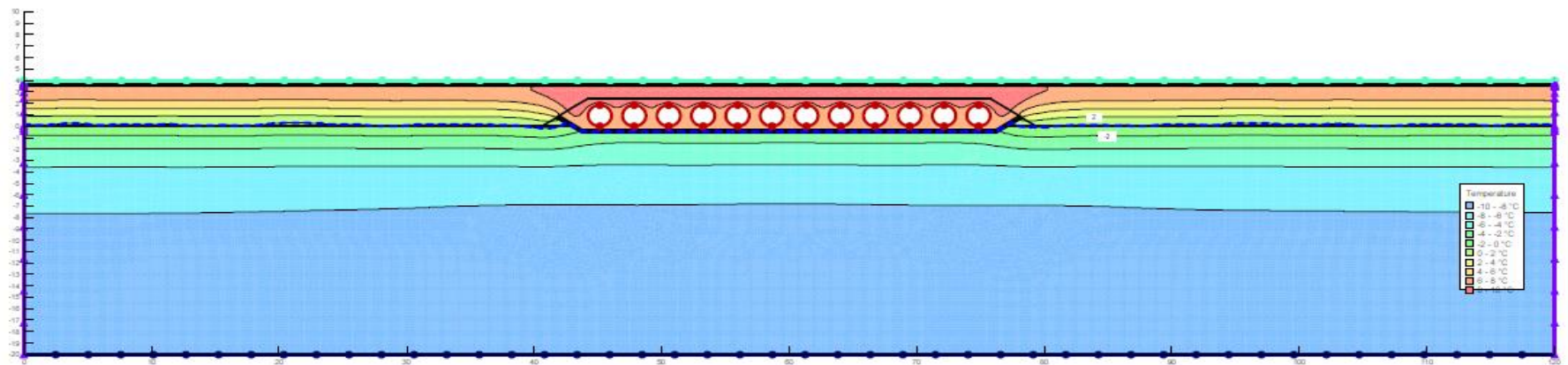


Figure H-9

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	4m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

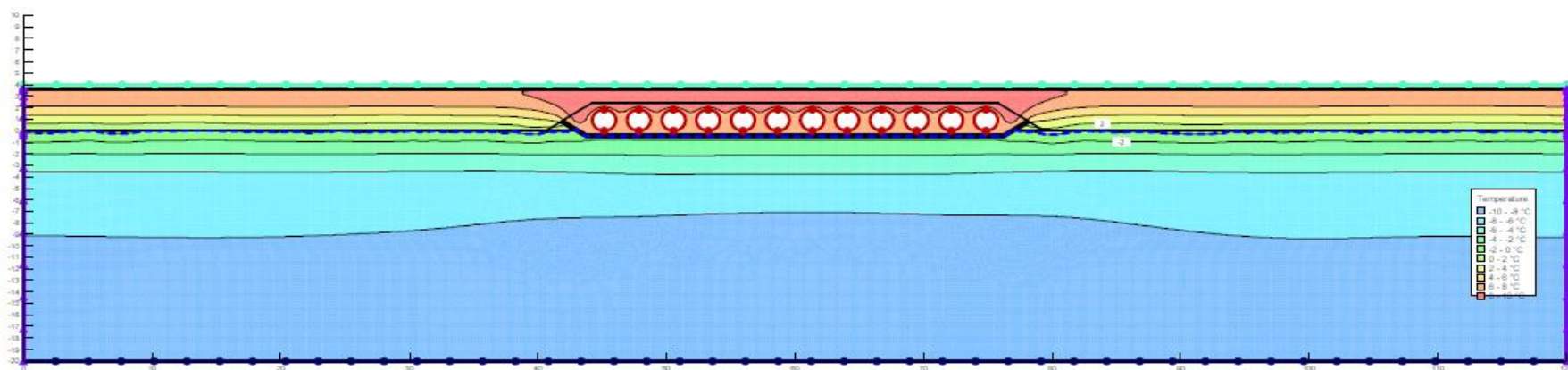


Figure H-9

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	4m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

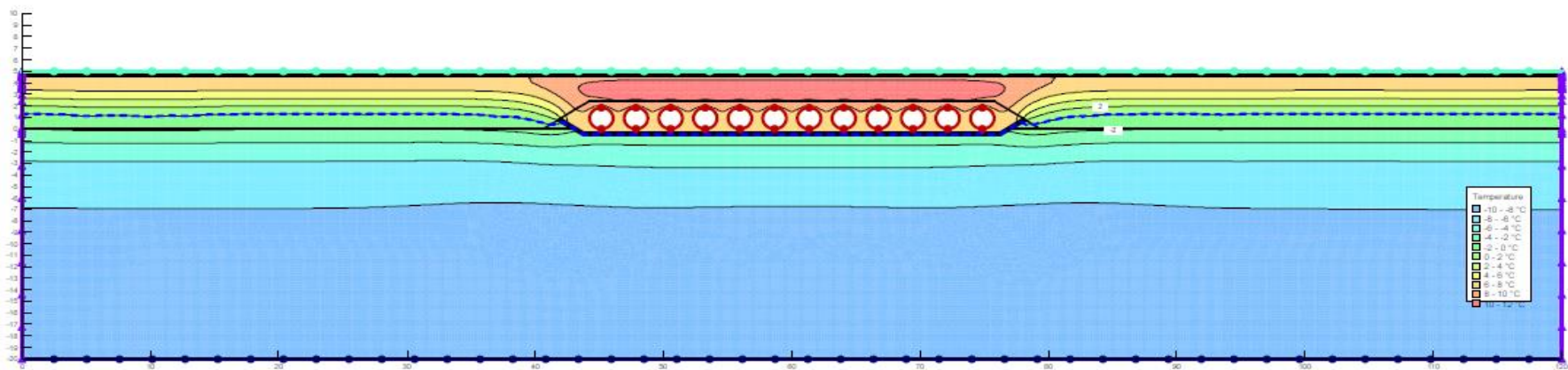


Figure H-9

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	5m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

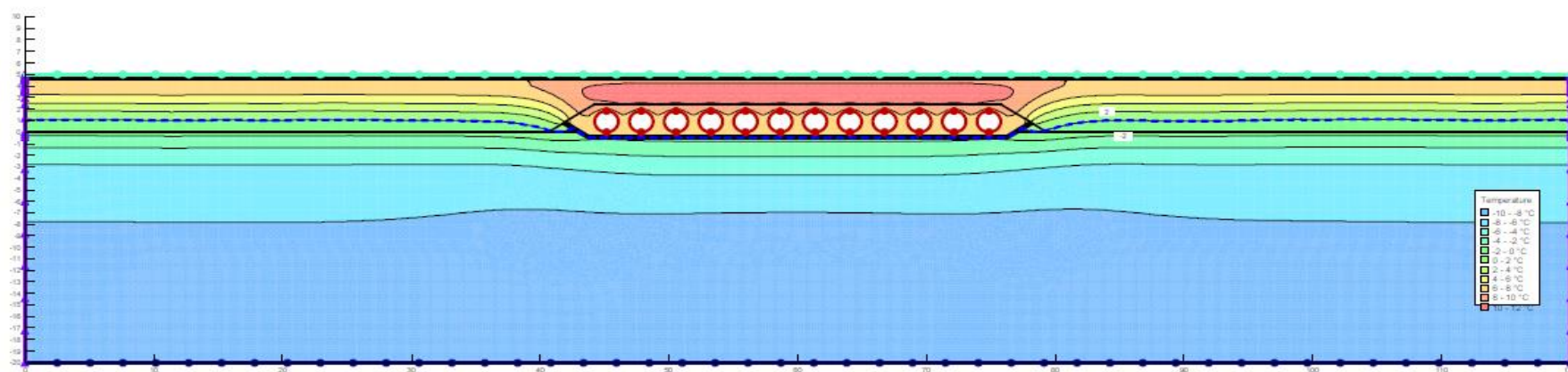


Figure H-9

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	5m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

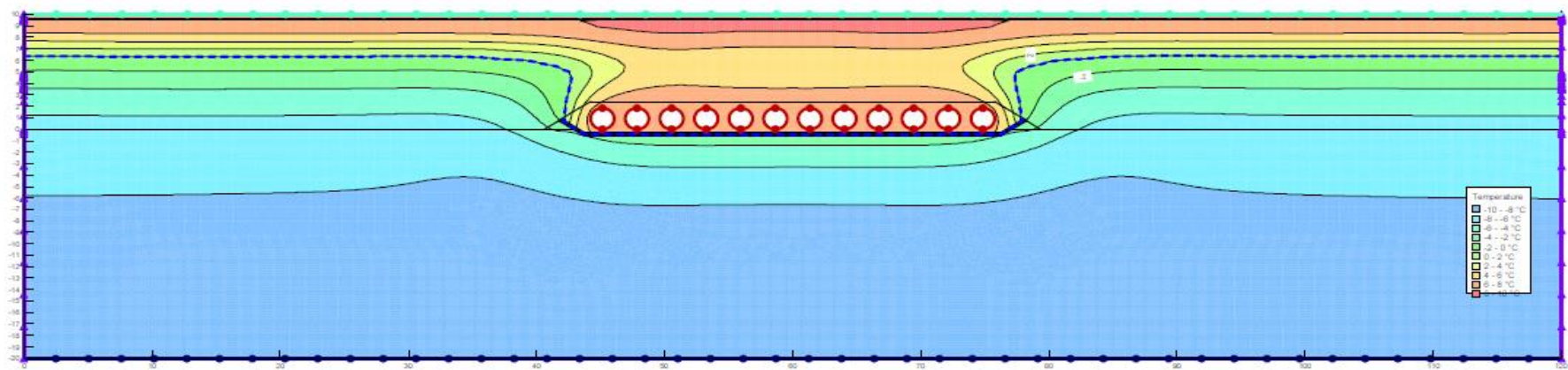


Figure H-9

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	10m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

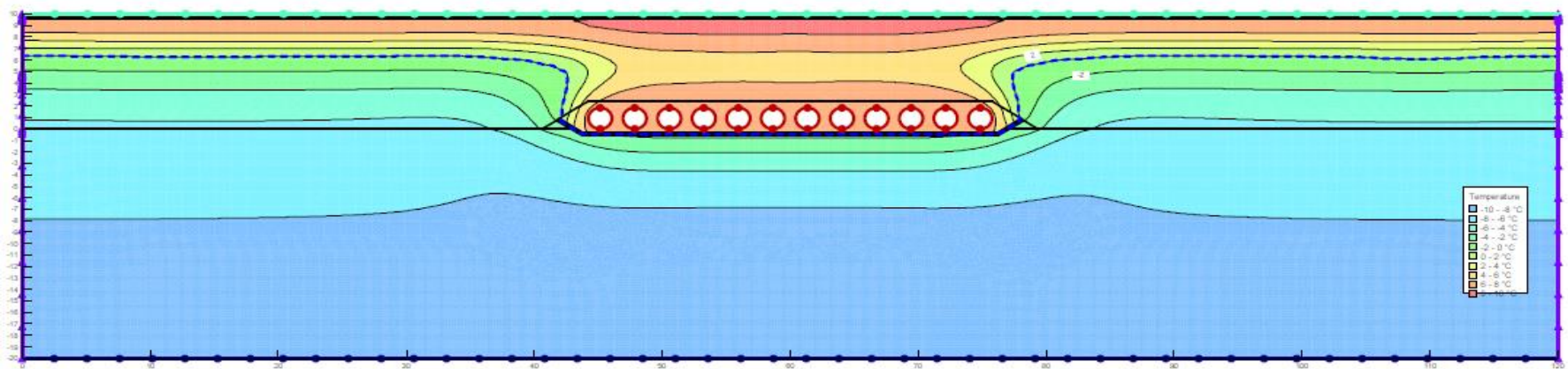


Figure H-9

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	10m	By	MY	4/22/2019	
Native Material	Silt	Checked By	-	-	

HATCH

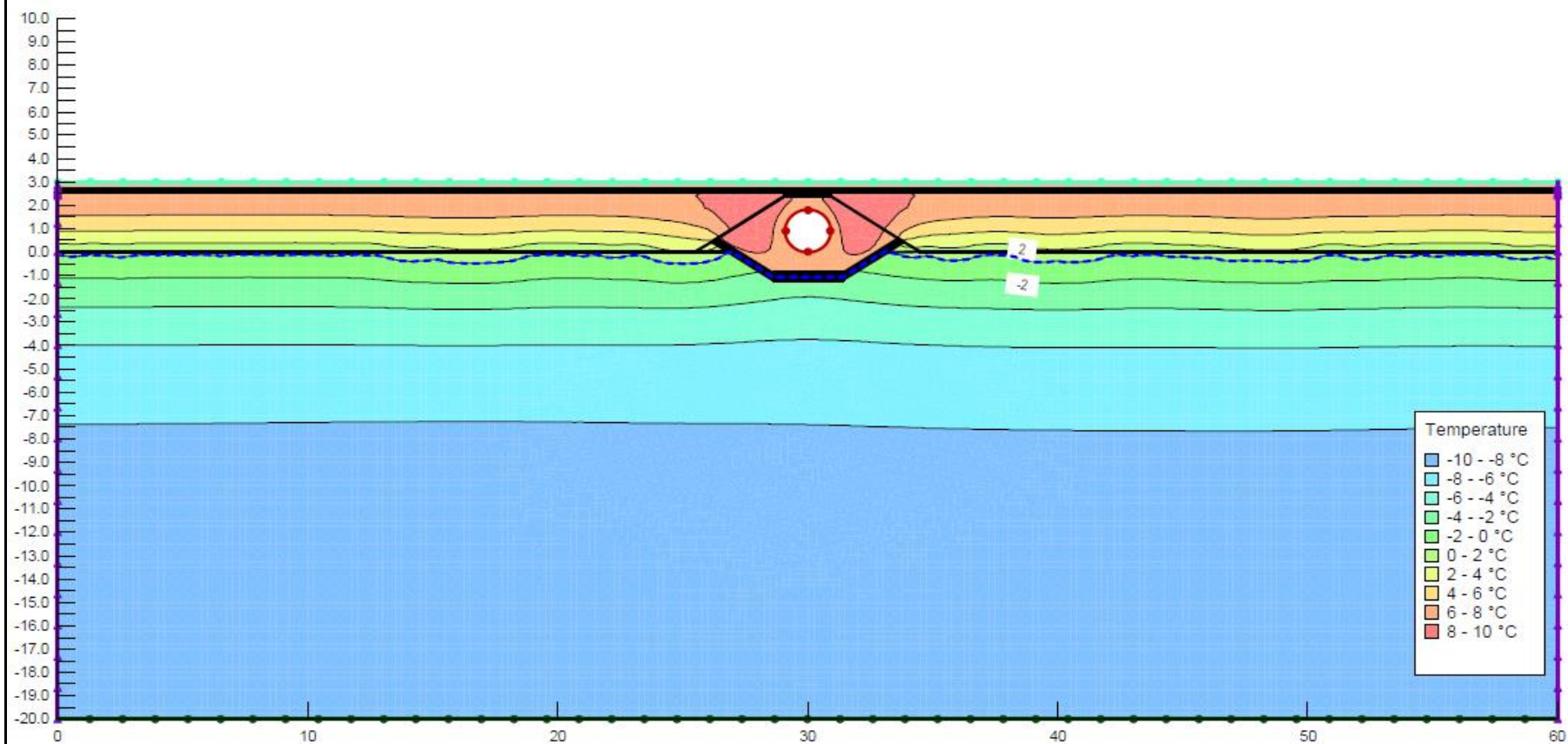


Figure H-10

**Culvert Thermal
Modeling Results**

Culvert Diameter	1800mm	Project Number	H353004	Rev	
Fill Height	3m	By	MY	4/22/2019	
Native Material	Sand and Gravel	Checked By	-	-	

HATCH

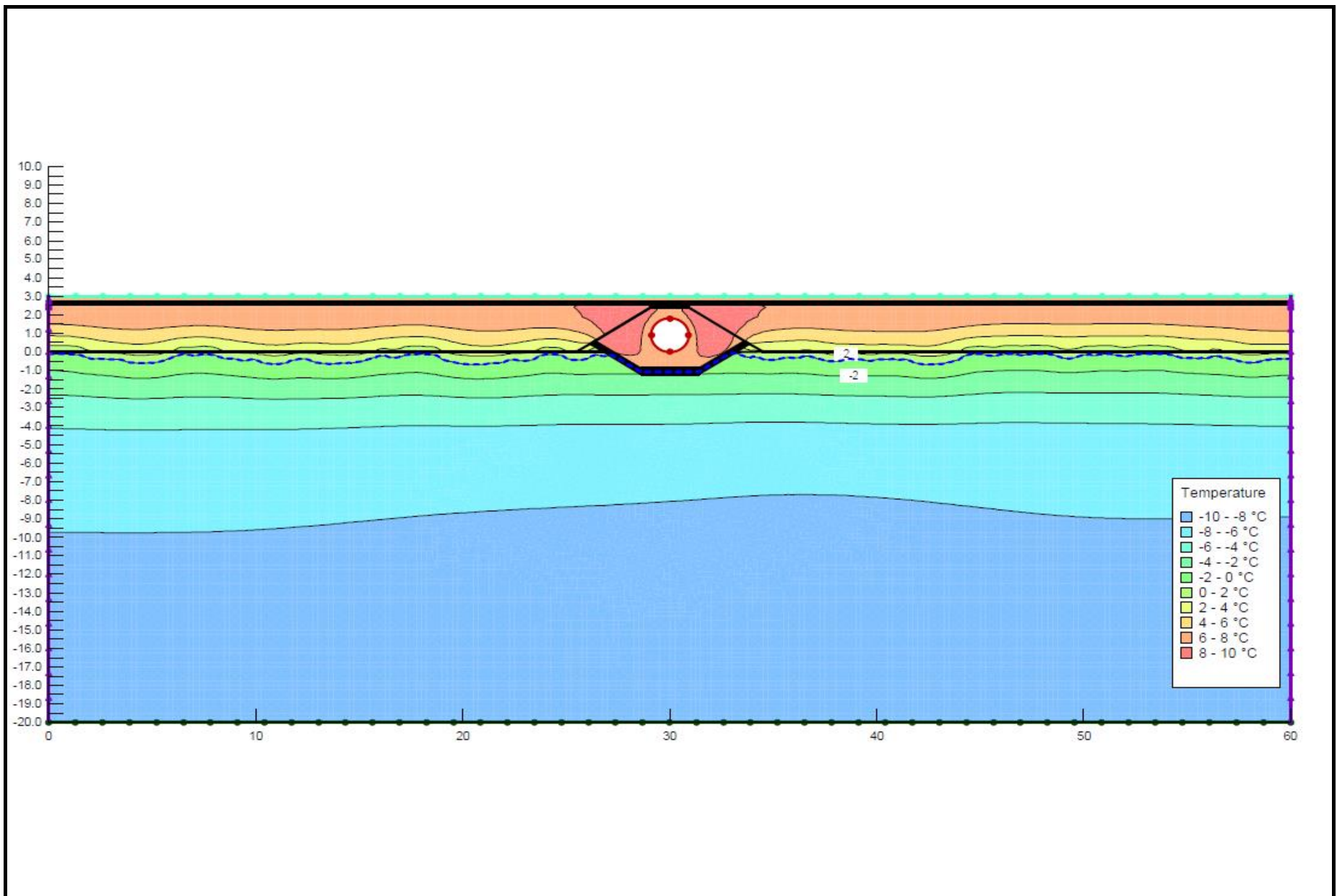


Figure H-10	Culvert Thermal Modeling Results	Culvert Diamater	1800mm	Project Number	H353004	Rev	HATCH
		Fill Height	3m	By	MY	4/22/2019	
		Native Material	Silt	Checked By	-	-	

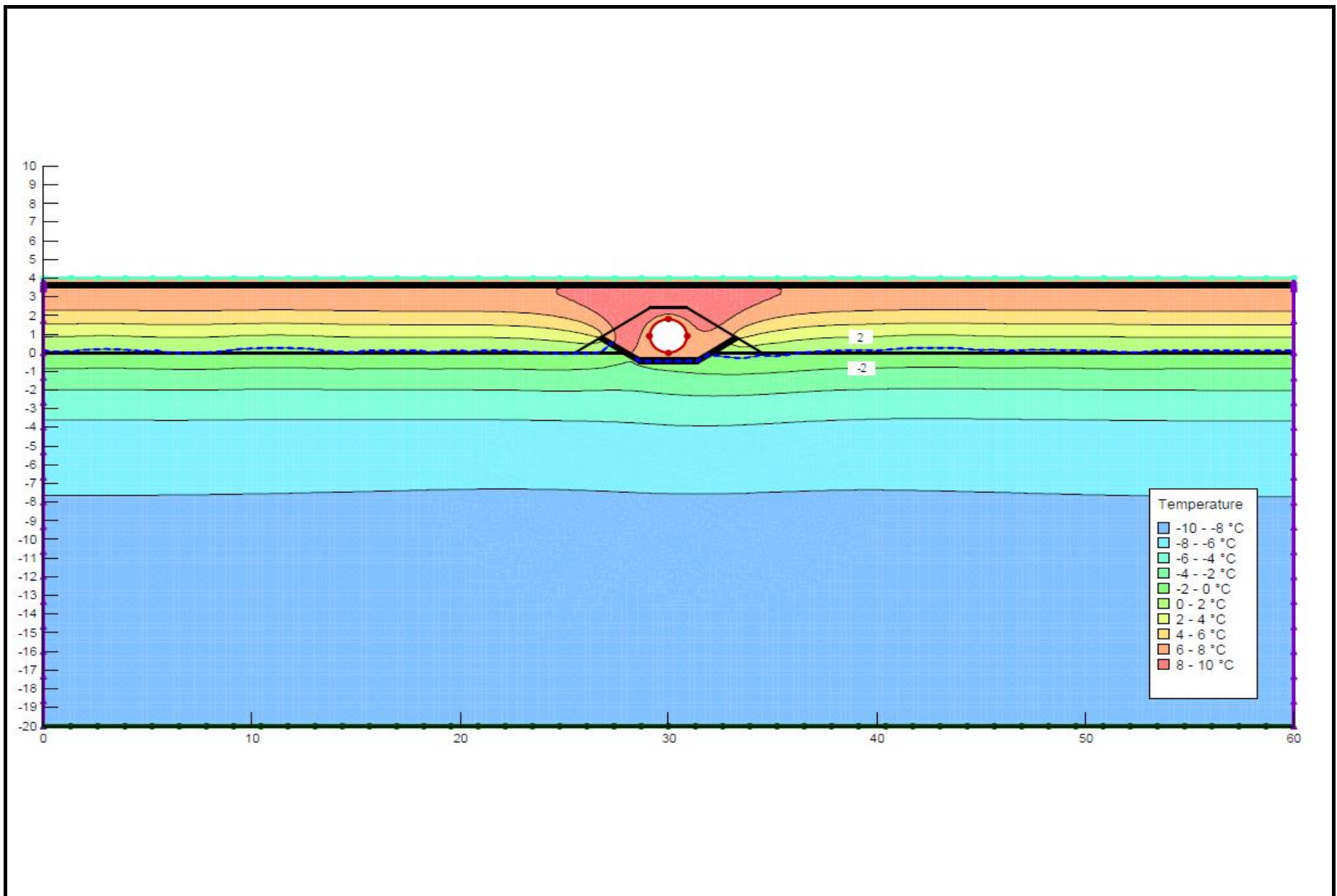


Figure H-10	Culvert Thermal Modeling Results	Culvert Diameter	1800mm	Project Number	H353004	Rev	HATCH
		Fill Height	4m	By	MY	4/22/2019	
		Native Material	Sand and Gravel	Checked By	-	-	

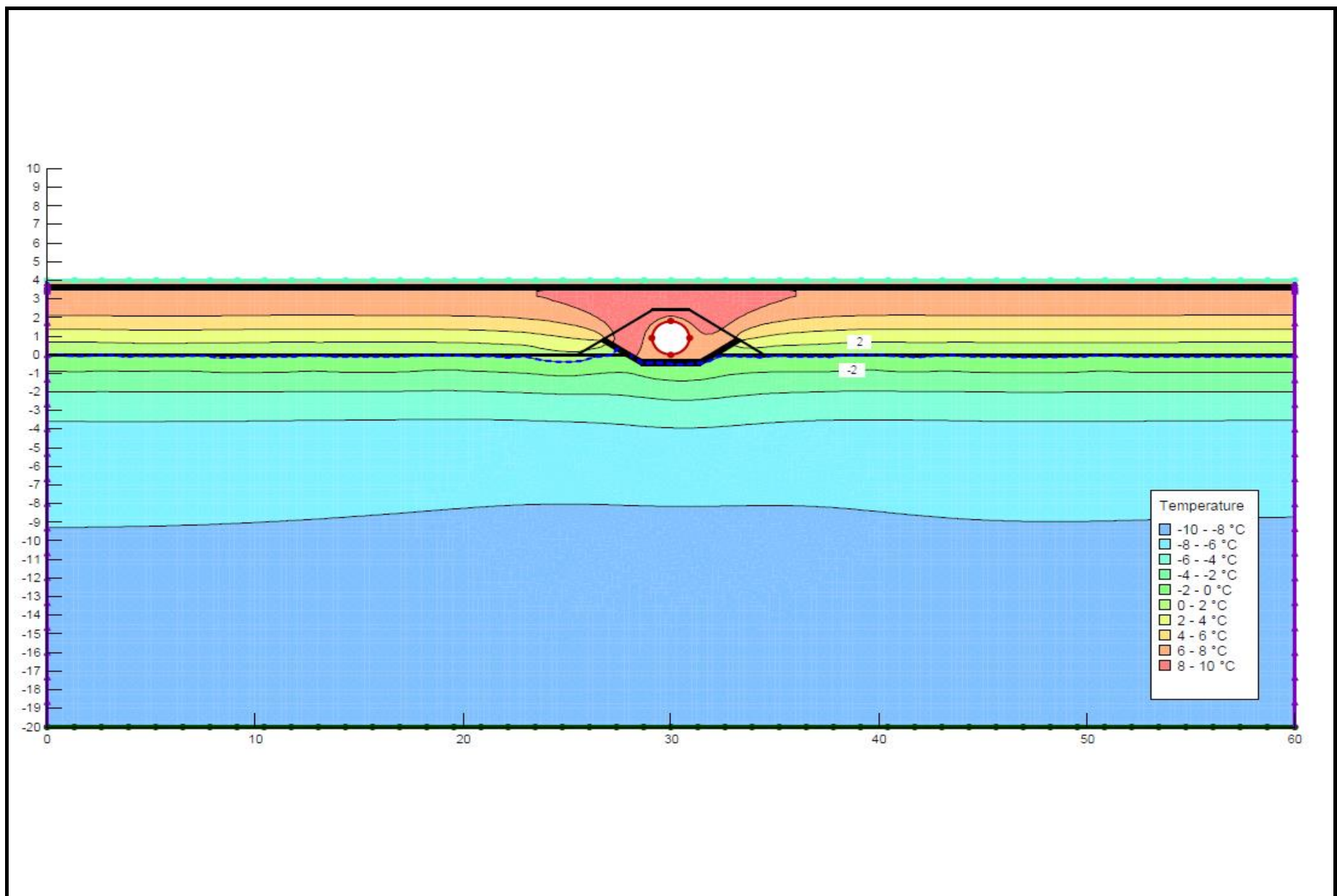


Figure H-10	Culvert Thermal Modeling Results	Culvert Diameter	1800mm	Project Number	H353004	Rev	HATCH
		Fill Height	4m	By	MY	4/22/2019	
		Native Material	Silt	Checked By	-	-	

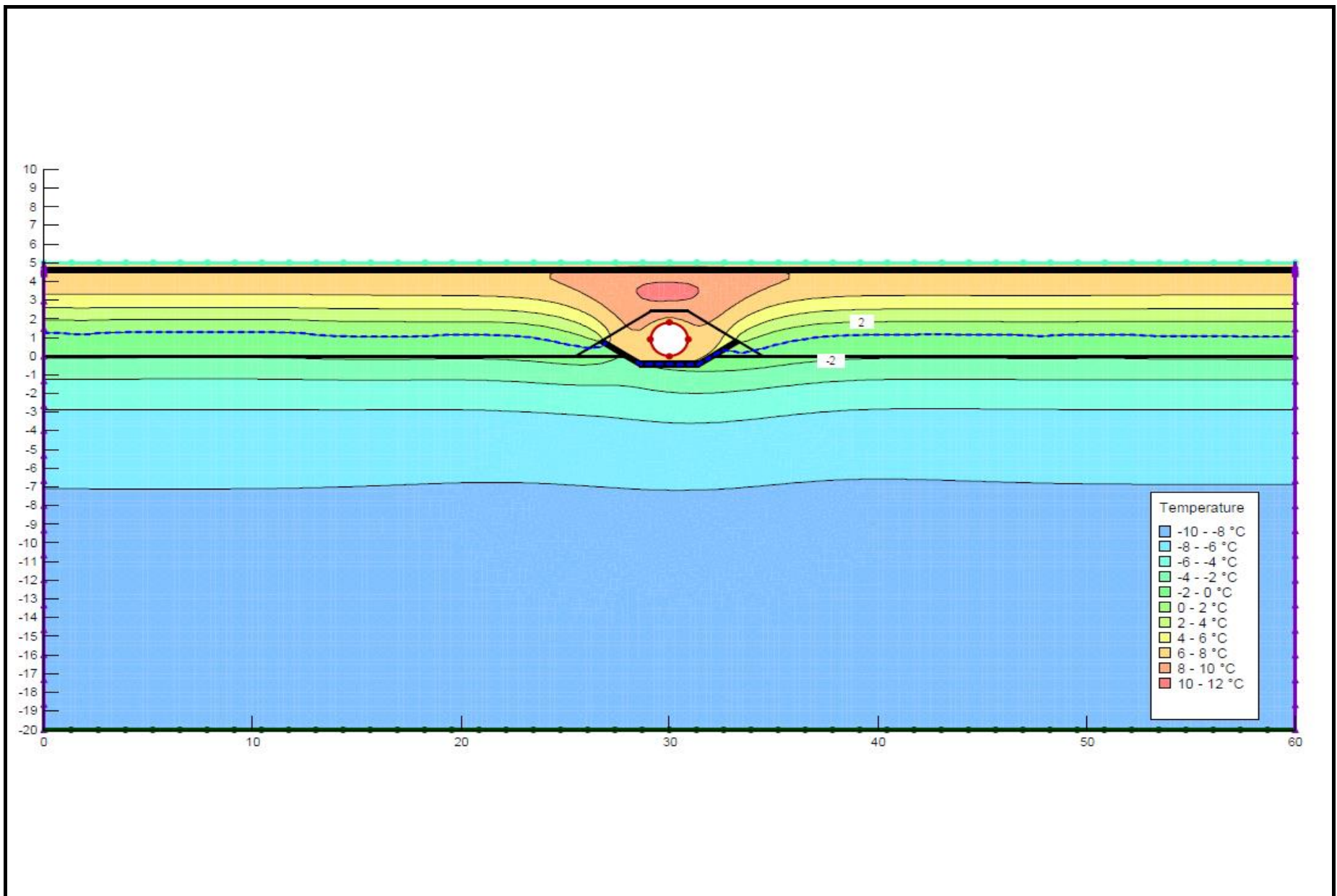


Figure H-10	Culvert Thermal Modeling Results	Culvert Diameter	1800mm	Project Number	H353004	Rev	HATCH
		Fill Height	5m	By	MY	4/22/2019	
		Native Material	Sand and Gravel	Checked By	-	-	

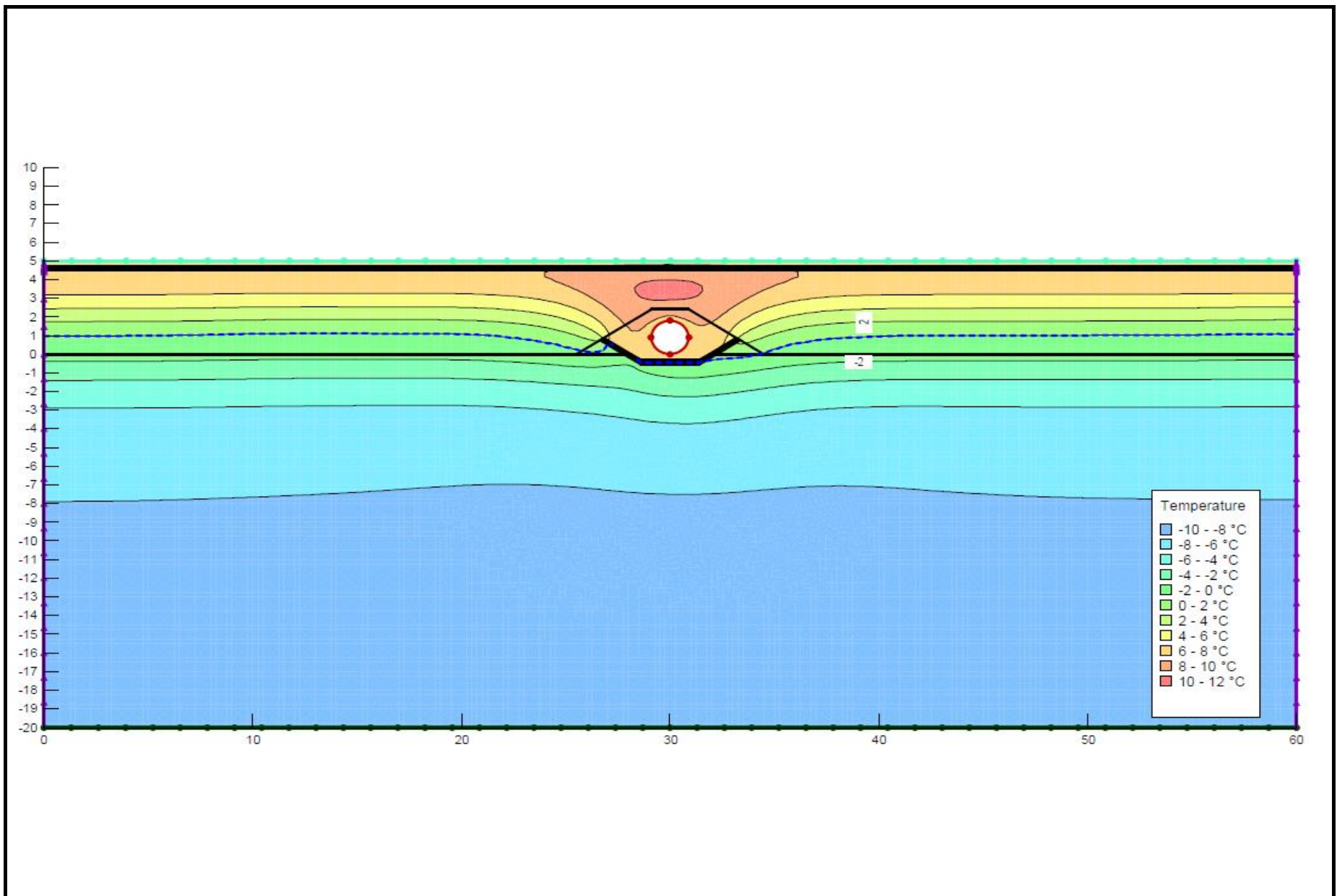


Figure H-10	Culvert Thermal Modeling Results	Culvert Diameter	1800mm	Project Number	H353004	Rev	HATCH
		Fill Height	5m	By	MY	4/22/2019	
		Native Material	Silt	Checked By	-	-	

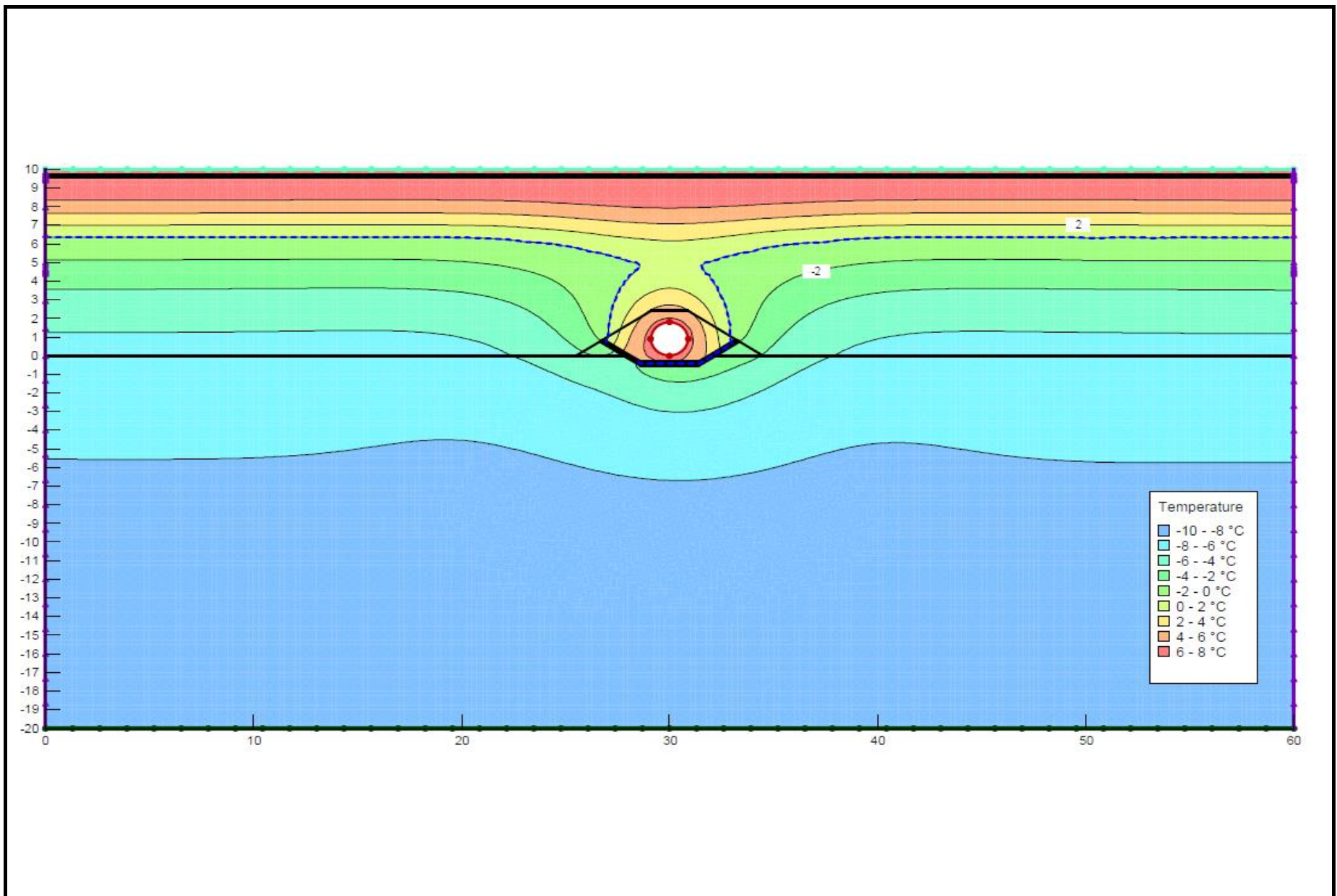


Figure H-10	Culvert Thermal Modeling Results	Culvert Diameter	1800mm	Project Number	H353004	Rev	HATCH
		Fill Height	10m	By	MY	4/22/2019	
		Native Material	Sand and Gravel	Checked By	-	-	

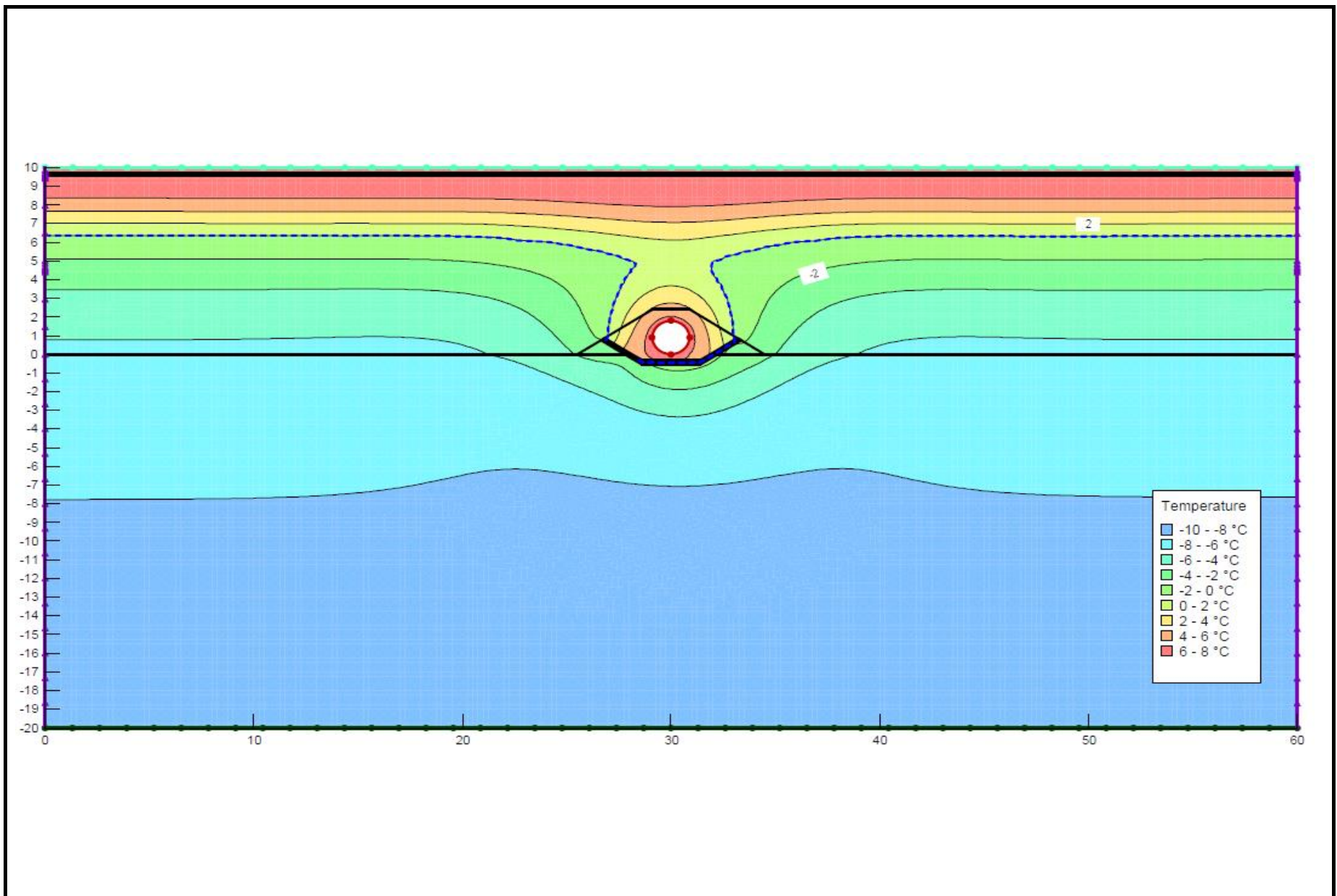


Figure H-10	Culvert Thermal Modeling Results	Culvert Diameter	1800mm	Project Number	H353004	Rev	HATCH
		Fill Height	10m	By	MY	4/22/2019	
		Native Material	Silt	Checked By	-	-	