



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION
AUGUSTA, MAINE 04333-0016

Janet T. Mills
GOVERNOR

Dale F. Doughty
COMMISSIONER

August 4, 2026
Subject: Highway Improvements
WIN:022643.00
Location: Livermore Falls
Amendment No. 1

Dear Sir/Ms.:

The following questions have been received:

Question: Please provide any available geotechnical data. Data does not appear to be included in specifications.

Response: See attached geotechnical data

Consider these changes and information prior to submitting your bid on **August 12, 2026.**

Sincerely,

A handwritten signature in blue ink that reads "George Macdougall".

George M. A. Macdougall P.E.
Contracts & Specifications Engineer



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No. **266798** Boring No./Sample No. **HB-LIFA-101/S1** Sample Description **GEOTECHNICAL (DISTURBED)** Sampled **6/3/2015** Received **6/5/2015**

Sample Type: **GEOTECHNICAL** Location: **ROADWAY** Station: **13+68** Offset, ft: **6.0** LT Dbfg, ft: **0.5-3.5**

WIN/Town **022643.00 - LIVERMORE FALLS** Sampler: **BRUCE WILDER**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	100.0
¾ in. [19.0 mm]	98.7
½ in. [12.5 mm]	94.1
⅜ in. [9.5 mm]	92.4
¼ in. [6.3 mm]	86.7
No. 4 [4.75 mm]	83.8
No. 10 [2.00 mm]	73.6
No. 20 [0.850 mm]	53.0
No. 40 [0.425 mm]	33.7
No. 60 [0.250 mm]	25.8
No. 100 [0.150 mm]	19.5
No. 200 [0.075 mm]	12.8
[mm]	
[mm]	
[mm]	
[mm]	
[mm]	
[mm]	

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	3.2

Consolidation (T 216)

Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear tons/ft²	Remold tons/ft²	U. Shear tons/ft²	Remold tons/ft²		

Comments:

POLE 31/8

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**

Date Reported: **6/11/2015**

Paper Copy: Lab File; Project File; Geotech File



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No. **266799** Boring No./Sample No. **HB-LIFA-101/S2** Sample Description **GEOTECHNICAL (DISTURBED)** Sampled **6/3/2015** Received **6/5/2015**

Sample Type: **GEOTECHNICAL** Location: **ROADWAY** Station: **13+68** Offset, ft: **6.0** LT Dbfg, ft: **3.5-5.0**

WIN/Town **022643.00 - LIVERMORE FALLS** Sampler: **BRUCE WILDER**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	100.0
½ in. [12.5 mm]	97.1
⅜ in. [9.5 mm]	94.0
¼ in. [6.3 mm]	88.8
No. 4 [4.75 mm]	84.7
No. 10 [2.00 mm]	72.6
No. 20 [0.850 mm]	59.6
No. 40 [0.425 mm]	48.5
No. 60 [0.250 mm]	41.5
No. 100 [0.150 mm]	33.8
No. 200 [0.075 mm]	21.5
[mm]	
[mm]	
[mm]	
[mm]	
[mm]	
[mm]	

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	6.5

Consolidation (T 216)

Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear tons/ft²	Remold tons/ft²	U. Shear tons/ft²	Remold tons/ft²		

Comments:

POLE 31/8

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**

Date Reported: **6/10/2015**

Paper Copy: Lab File; Project File; Geotech File



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No. **263370** Boring No./Sample No. **HB-LIFA-102/1B** Sample Description **GEOTECHNICAL (DISTURBED)** Sampled **6/3/2015** Received **6/6/2015**

Sample Type: **GEOTECHNICAL** Location: **ROADWAY** Station: **22+90** Offset, ft: **6.0** LT Dbfg, ft: **0.5-2.3**

WIN/Town **022643.00 - LIVERMORE FALLS** Sampler: **BRUCE WILDER**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	100.0
1 in. [25.0 mm]	97.7
¾ in. [19.0 mm]	96.9
½ in. [12.5 mm]	92.8
⅜ in. [9.5 mm]	88.1
¼ in. [6.3 mm]	81.5
No. 4 [4.75 mm]	78.6
No. 10 [2.00 mm]	69.8
No. 20 [0.850 mm]	59.4
No. 40 [0.425 mm]	46.1
No. 60 [0.250 mm]	33.7
No. 100 [0.150 mm]	24.1
No. 200 [0.075 mm]	14.2

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	3.5

Consolidation (T 216)

Trimming, Water Content, %

	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

TEN FEET SOUTH OF POLE #23. BUCKET SAMPLE

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**Date Reported: **6/11/2015**

Paper Copy: Lab File; Project File; Geotech File



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No. **263371** Boring No./Sample No. **HB-LIFA-104/2B** Sample Description **GEOTECHNICAL (DISTURBED)** Sampled **6/3/2015** Received **6/6/2015**

Sample Type: **GEOTECHNICAL** Location: **ROADWAY** Station: **41+98** Offset, ft: **7.0** RT Dbfg, ft: **0.5-1.4**

WIN/Town **022643.00 - LIVERMORE FALLS** Sampler: **BRUCE WILDER**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	100.0
1 in. [25.0 mm]	77.5
¾ in. [19.0 mm]	72.8
½ in. [12.5 mm]	66.5
⅜ in. [9.5 mm]	61.5
¼ in. [6.3 mm]	56.7
No. 4 [4.75 mm]	53.8
No. 10 [2.00 mm]	45.6
No. 20 [0.850 mm]	33.5
No. 40 [0.425 mm]	21.5
No. 60 [0.250 mm]	15.3
No. 100 [0.150 mm]	12.1
No. 200 [0.075 mm]	8.8

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	2.8

Consolidation (T 216)

Trimming, Water Content, %

	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

TEN FEET NORTH OF POLE 9. BUCKET SAMPLE

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**Date Reported: **6/11/2015**

Paper Copy: Lab File; Project File; Geotech File



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No. **266800** Boring No./Sample No. **HB-LIFA-104/S4** Sample Description **GEOTECHNICAL (DISTURBED)** Sampled **6/3/2015** Received **6/5/2015**

Sample Type: **GEOTECHNICAL** Location: **ROADWAY** Station: **41+98** Offset, ft: **7.0** RT Dbfg, ft: **1.4-5.0**

WIN/Town **022643.00 - LIVERMORE FALLS** Sampler: **BRUCE WILDER**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	100.0
½ in. [12.5 mm]	95.9
⅜ in. [9.5 mm]	93.3
¼ in. [6.3 mm]	89.0
No. 4 [4.75 mm]	84.8
No. 10 [2.00 mm]	72.4
No. 20 [0.850 mm]	61.9
No. 40 [0.425 mm]	51.7
No. 60 [0.250 mm]	45.0
No. 100 [0.150 mm]	37.1
No. 200 [0.075 mm]	21.2
[mm]	
[mm]	
[mm]	
[mm]	
[mm]	
[mm]	

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	7.7

Consolidation (T 216)

Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear tons/ft²	Remold tons/ft²	U. Shear tons/ft²	Remold tons/ft²		

Comments:

10 FEET NORTH OF POLE 9

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**

Date Reported: **6/10/2015**

Paper Copy: Lab File; Project File; Geotech File



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No.

Boring No./Sample No.

Sample Description

Sampled

Received

263349

HB-LIFA-105/S5

GEOTECHNICAL (DISTURBED)

6/3/2015

6/6/2015

Sample Type: **GEOTECHNICAL**

Location: **ROADWAY**

Station: 49+88

Offset, ft: **6.0**

LT Dbfg, ft: 0.54-1.4

WIN/Town **022643.00 - LIVERMORE FALLS**

Sampler: **BRUCE WILDER**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	100.0
⅜ in. [9.5 mm]	98.3
¼ in. [6.3 mm]	91.6
No. 4 [4.75 mm]	87.3
No. 10 [2.00 mm]	75.3
No. 20 [0.850 mm]	64.6
No. 40 [0.425 mm]	55.5
No. 60 [0.250 mm]	48.7
No. 100 [0.150 mm]	40.9
No. 200 [0.075 mm]	29.3

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	17.1

Consolidation (T 216)

Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

POLE 2

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**

Date Reported: **6/10/2015**

Paper Copy: Lab File; Project File; Geotech File



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No. **263350** Boring No./Sample No. **HB-LIFA-105/S6** Sample Description **GEOTECHNICAL (DISTURBED)** Sampled **6/3/2015** Received **6/6/2015**

Sample Type: **GEOTECHNICAL** Location: **ROADWAY** Station: **49+88** Offset, ft: **6.0** LT Dbfg, ft: **1.4-5.0**

WIN/Town **022643.00 - LIVERMORE FALLS** Sampler: **KAREN GROSS**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	
¾ in. [19.0 mm]	
½ in. [12.5 mm]	
⅜ in. [9.5 mm]	
¼ in. [6.3 mm]	
No. 4 [4.75 mm]	100.0
No. 10 [2.00 mm]	99.9
No. 20 [0.850 mm]	99.1
No. 40 [0.425 mm]	96.8
No. 60 [0.250 mm]	95.8
No. 100 [0.150 mm]	92.4
No. 200 [0.075 mm]	58.3

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	22.5

Consolidation (T 216)

Trimming, Water Content, %

	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

POLE 2

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**

Date Reported: **6/10/2015**

Paper Copy: Lab File; Project File; Geotech File



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No.

Boring No./Sample No.

Sample Description

Sampled

Received

263368

HB-LIFA-106/S7

GEOTECHNICAL (DISTURBED)

6/3/2015

6/6/2015

Sample Type: **GEOTECHNICAL** Location: **ROADWAY** Station: **60+00** Offset, ft: **14.0** RT Dbfg, ft: **0.33-1.7**

WIN/Town **022643.00 - LIVERMORE FALLS**

Sampler: **KAREN GROSS**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	100.0
¾ in. [19.0 mm]	95.4
½ in. [12.5 mm]	88.4
⅜ in. [9.5 mm]	82.6
¼ in. [6.3 mm]	76.0
No. 4 [4.75 mm]	71.6
No. 10 [2.00 mm]	60.1
No. 20 [0.850 mm]	43.4
No. 40 [0.425 mm]	24.5
No. 60 [0.250 mm]	16.3
No. 100 [0.150 mm]	11.3
No. 200 [0.075 mm]	7.0

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	1.9

Consolidation (T 216)

Trimmings, Water Content, %					
	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

WATER DISTRICT

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**

Date Reported: **6/10/2015**

Paper Copy: Lab File; Project File; Geotech File



GEOTECHNICAL TEST REPORT

Central Laboratory

SAMPLE INFORMATION

Reference No. **263369** Boring No./Sample No. **HB-LIFA-106/S8** Sample Description **GEOTECHNICAL (DISTURBED)** Sampled **6/3/2015** Received **6/5/2015**

Sample Type: **GEOTECHNICAL** Location: **ROADWAY** Station: **60+00** Offset, ft: **14.0** RT Dbfg, ft: **1.7-5.0**

WIN/Town **022643.00 - LIVERMORE FALLS** Sampler: **BRUCE WILDER**

TEST RESULTS

Sieve Analysis (T 27, T 11)

Wash Method

Procedure A

SIEVE SIZE U.S. [SI]	% Passing
3 in. [75.0 mm]	
1 in. [25.0 mm]	100.0
¾ in. [19.0 mm]	98.0
½ in. [12.5 mm]	96.9
⅜ in. [9.5 mm]	95.7
¼ in. [6.3 mm]	94.5
No. 4 [4.75 mm]	93.9
No. 10 [2.00 mm]	92.5
No. 20 [0.850 mm]	89.0
No. 40 [0.425 mm]	83.6
No. 60 [0.250 mm]	76.2
No. 100 [0.150 mm]	39.9
No. 200 [0.075 mm]	11.5

Miscellaneous Tests

Liquid Limit @ 25 blows (T 89), %	
Plastic Limit (T 90), %	
Plasticity Index (T 90), %	
Specific Gravity, Corrected to 20°C (T 100)	
Loss on Ignition, % (T 267)	
Water Content (T 265), %	5.3

Consolidation (T 216)

Trimming, Water Content, %

	Initial	Final		Void Ratio	% Strain
Water Content, %			Pmin		
Dry Density, lbs/ft³			Pp		
Void Ratio			Pmax		
Saturation, %			Cc/C'c		

Vane Shear Test on Shelby Tubes (Maine DOT)

Depth taken in tube, ft	3 In.		6 In.		Water Content, %	Description of Material Sampled at the Various Tube Depths
	U. Shear	Remold	U. Shear	Remold		
	tons/ft²	tons/ft²	tons/ft²	tons/ft²		

Comments:

WATER DISTRICT

AUTHORIZATION AND DISTRIBUTION

Reported by: **GREGORY LIDSTONE**

Date Reported: **6/10/2015**

Paper Copy: Lab File; Project File; Geotech File

Town(s): Livermore Falls **Work Number:** 22643.00

Classification of these soil samples is in accordance with AASHTO Classification System M-145-40. This classification is followed by the "Frost Susceptibility Rating" from zero (non-frost susceptible) to Class IV (highly frost susceptible). The "Frost Susceptibility Rating" is based upon the MaineDOT and Corps of Engineers Classification Systems.

PI = Plasticity Index as determined by AASHTO 90-96 and/or ASTM D4318-98

Geol. WILDER Town LIVERMORE FALLS Date 6-3-15 Page 1
 Crew GILES Proj. No. 22643.00 Weather Clear
DABBECE Line 204 Rods
GILES Rods 5/8" 1" Hammer 35# 55#

STATION & G.W.T.	OFFSET & DEPTH			TEST & BLOWS OR SAMPLE #	REMARKS SOIL CONSISTENCY OR DENSITY, COLOR & TYPE
	LT.	E	RT.		
HB-LIFA-101					SSA
	6'				e Pole # 31/2
	0	-	6"		P = PAVEMENT
	6"	-	3.5	(1)	Brown, Damp, F-C SAND Some GRAVEL, Trace - Little Silt, Occ. Cobble
	3.5	-	5.0	(2)	lt. Brown, Damp, F-C SAND, Some Silt, Little Gravel 5.0 NO REF.
HB-LIFA-102					12" AUGER SSA
	10'				10' South of Pole # 23
	0	-	6"		P
	6"	-	2.3	1B	Brown, Damp F-C SAND Some GRAVEL, Little Silt Occ. Cobble
	2.3	-	5.0	(3)	lt. Brown, Moist, F-m SAND, Little Silt 5.0 NO REF.

Geol. WILDER Town LIVERMORE FALLS Date 6-3-15 Page 2
 Crew GILES Proj. No. 22643.00 Weather Clear
DABBECE Line 204 Rods
GILES Rods 5/8" 1" Hammer 35# 55#

STATION & G.W.T.	OFFSET & DEPTH			TEST & BLOWS OR SAMPLE #	REMARKS SOIL CONSISTENCY OR DENSITY, COLOR & TYPE
	LT.	E	RT.		
HB-LIFA-103					e Pole # 23/30
	0	-	8"		P
	8"	-	2.4		Similar to 1B
			2.4		REF.
HB-LIFA-104					12" AUGER
			7'		10' North of Pole # 9
	0	-	6"		P
	6"	-	1.4	2B	Brown, Damp GRAVELLY F-C SAND, Little Silt Occ. Cobble
	1.4	-	5.0	(4)	lt. Brown, Damp, F-C SAND, Little GRAVEL, Little Silt 5.0 NO REF.

Date <u>6-3-15</u>	Page
Weather <u>Clear</u>	<u>3-3</u>
mmmer	
35#	55#

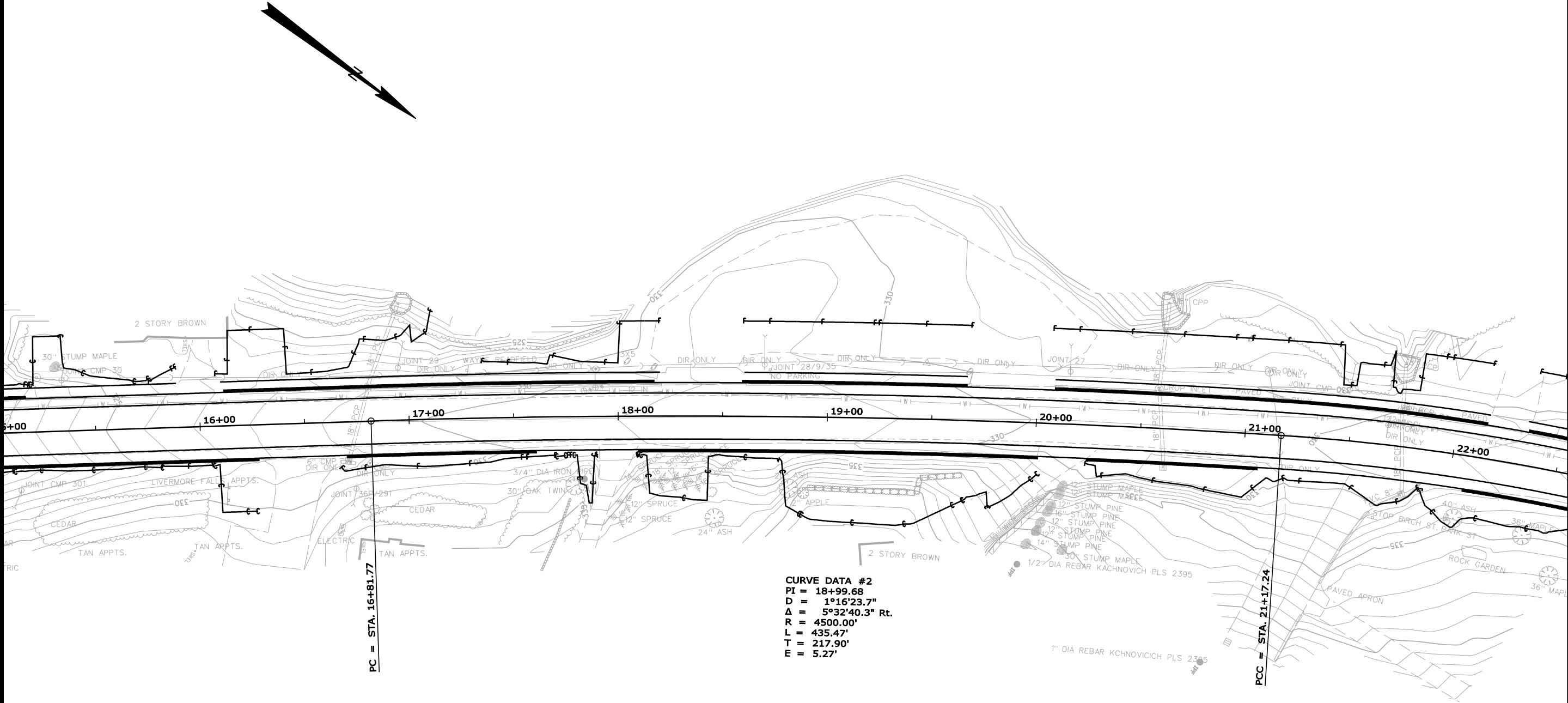
STATION & G.W.T.	OFFSET & DEPTH			TEST & BLOWS OR SAMPLE #	REMARKS SOIL CONSISTENCY OR DENSITY, COLOR & TYPE
	LT.	¢	RT.		
AB-LIFA-105					
	6'				e Ble # 2
	0	-	6 1/2'		P
	6 1/2'	-	1.4 (5)		Black Moist F.C SAND, Little Gravel Some Silt
	1.4	-	5.0 (6)		lt. Brown, wet, F-m SAND. Trace Silt
					0.45 Gas odor 5.0 water
AB-LIFA-106					
			14'		IN Front of WATER Dist.
	0	-	4 1/2'		
	4 1/2'	-	1.7 (7)		Brown, Damp Gravelly F-C SAND, T. Silt
	1.7	-	5.0 8		Gold, moist, F-m SAND Trace Silt.
					5.0 No gas

Date _____
Weather _____
Hammer 35# 55#

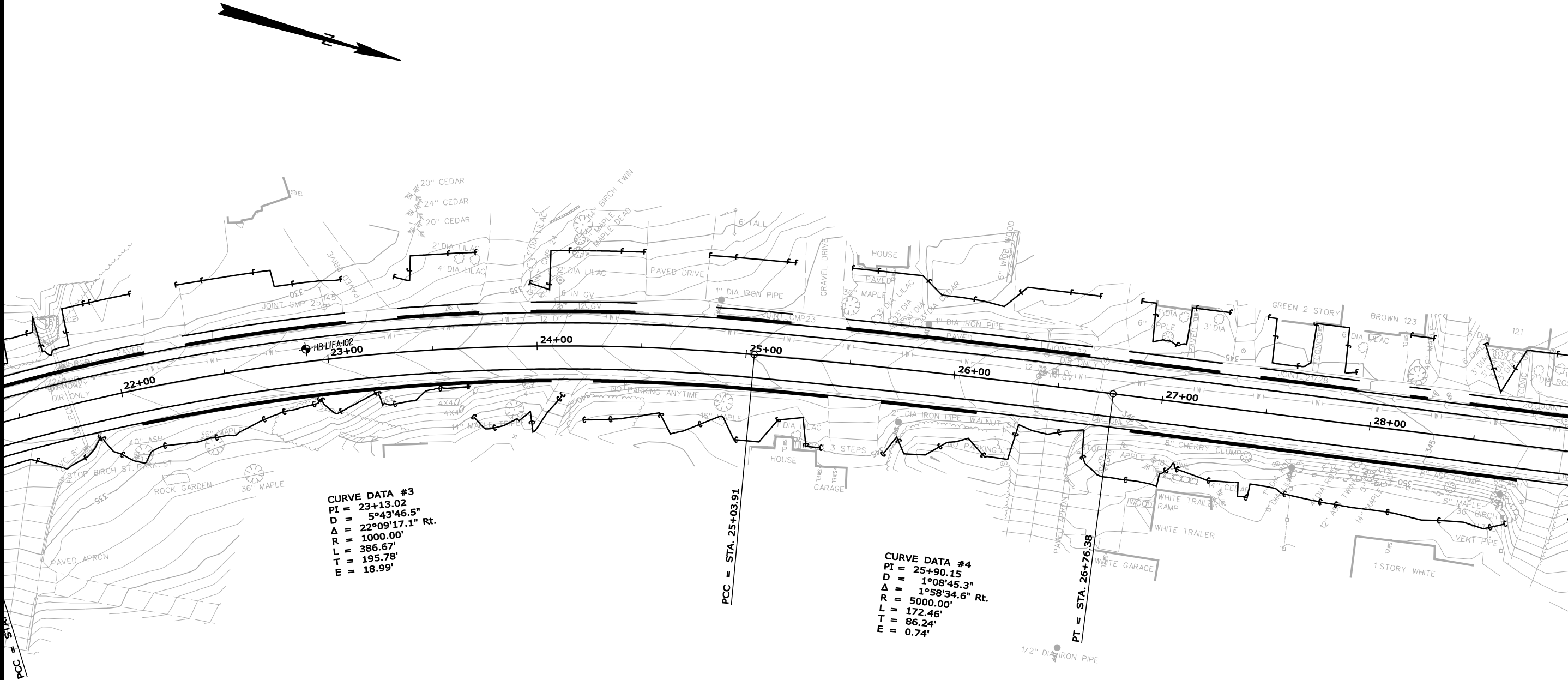
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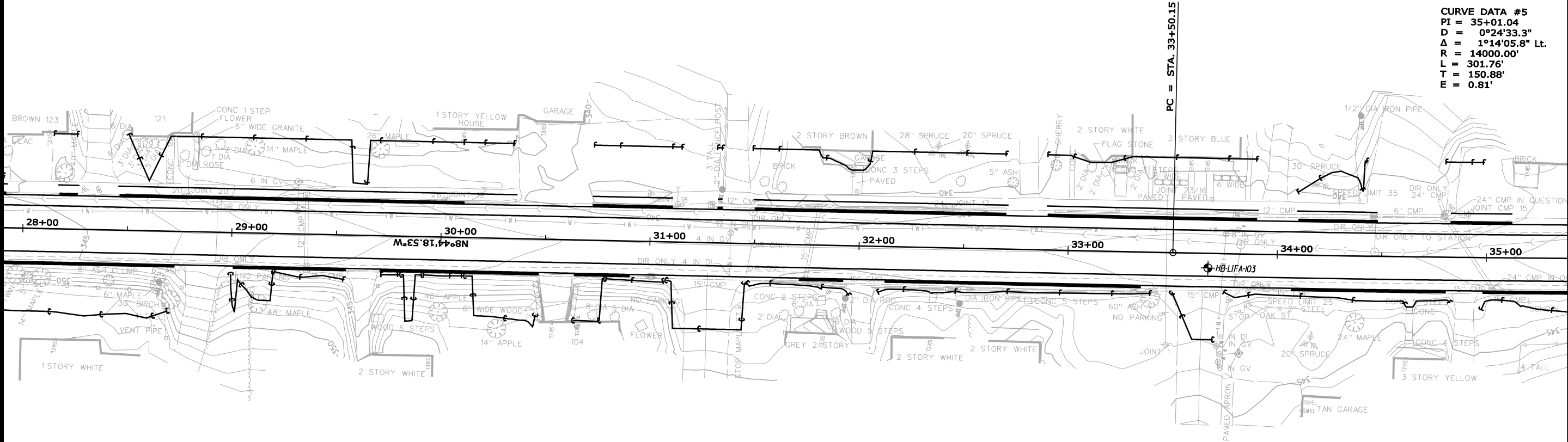
SHEET NUMBER	1	OF 10	LIVERMORE FALLS ROUTE 17		PROJ. MANAGER		BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION
			DESIGN-DETAILED CHECKED-REVIEWED DESIGN2-DETAILED2 DESIGN3-DETAILED3 REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		T. WHITE	MAY 2017			
							SIGNATURE		NHPP-2264(300)
							P.E. NUMBER		
			GEOPLANS				DATE		WIN 22643.00 HIGHWAY PLANS



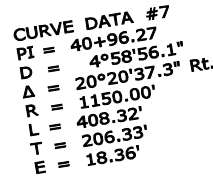
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	NHP-2264(300)		MAY 2017
WIN 22643.00 HIGHWAY PLANS	P.E. NUMBER		DATE
	22643.00		
LIVERMORE FALLS ROUTE 17		GEOPLANS	
SHEET NUMBER		2	
OF 10			



STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE		BY	DATE
	P.E. NUMBER			
NHP-2264(300)		WIN		22643.00
HIGHWAY PLANS				
LIVERMORE FALLS ROUTE 17		GEOPLANS		
SHEET NUMBER		3		
OF 10				



PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN-DETAILED					
CHECKED-REVIEWED					
DESIGN DETAILER	T. WHITE	MAY 2017			
DESIGN DETAILER					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					



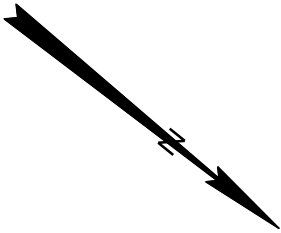


SIGNATURE	P.E. NUMBER	DATE
T. WHITE		MAY 2017

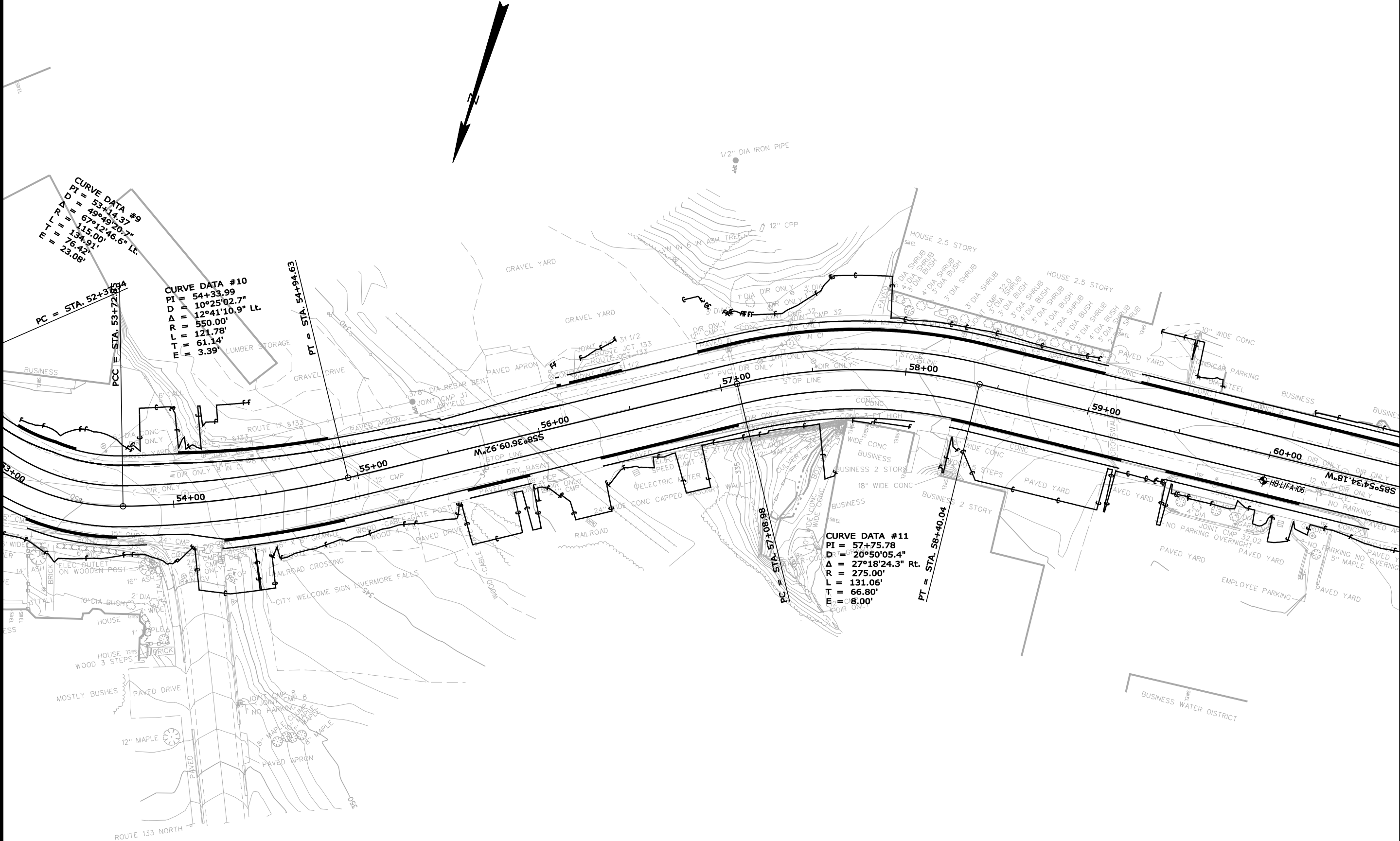
PROJ. MANAGER	BY	DATE
CHECKED-DETAILED		
DESIGNED-DETAILED	K. GROSS	
DESIGNED-DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

LIVERMORE FALLS
ROUTE 17

GEOPLANS



LIVERMORE FALLS ROUTE 17	PROJ. MANAGER CHECKED-REVISED		BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION NHPP-2264(300)
	DESIGN-DETAILED DESIGN2-DETAILED2 DESIGN3-DETAILED3 REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES		I. WHITE	MAY 2017	
7 OF 10	GEOPLANS		WIN 22643.00 HIGHWAY PLANS		

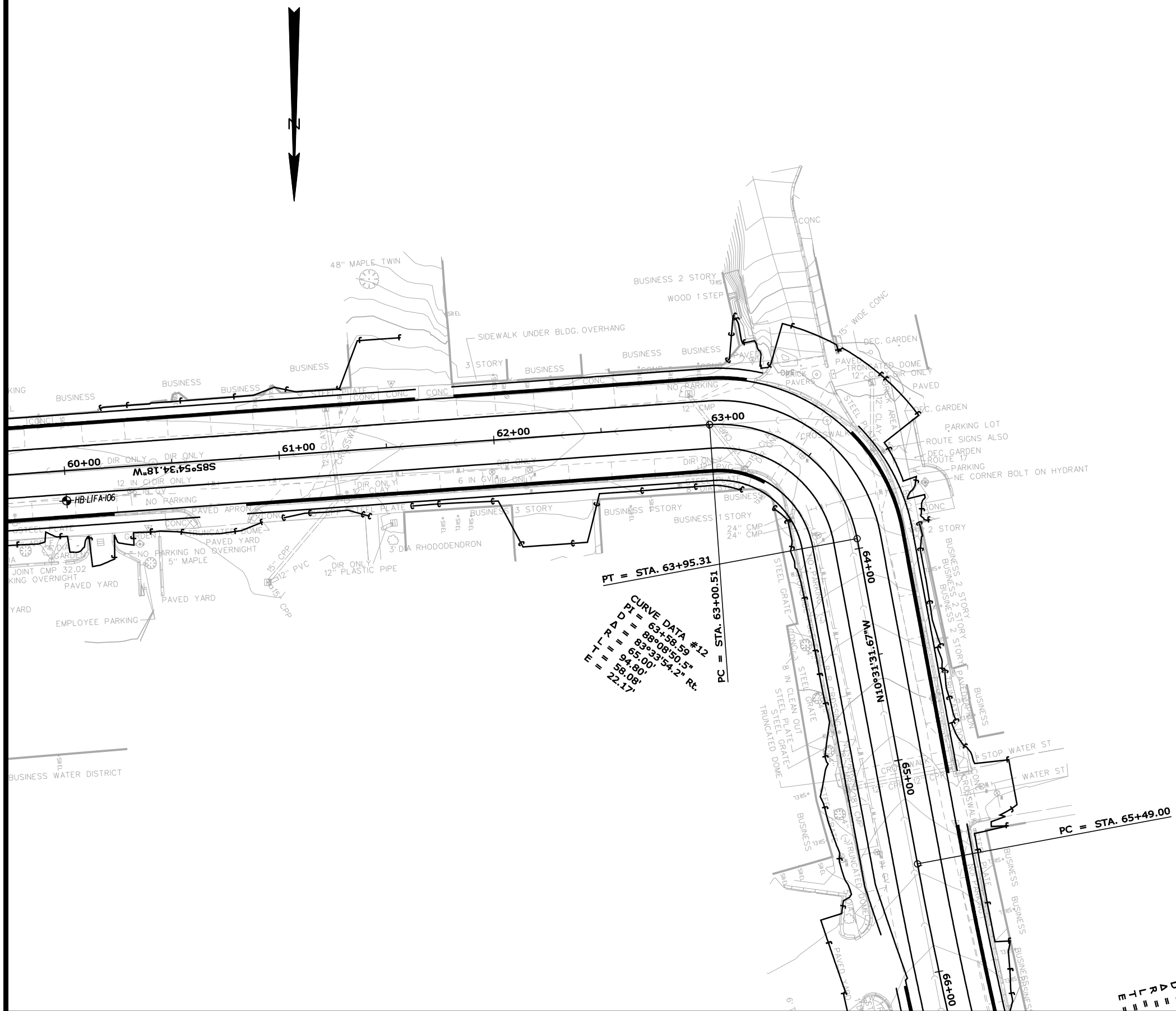


LIVERMORE FALLS ROUTE 17		PROJ. MANAGER		BY	DATE	STATE OF MAINE	
		DESIGN-DETAILED	CHECKED-REVIEWED			DEPARTMENT OF TRANSPORTATION	
GEOPLANS		DESIGN2-DETAILED2	K.GROSS	T.WHITE	MAY 2017	SIGNATURE	
		DESIGN3-DETAILED3				P.E. NUMBER	
		REVISIONS 1				DATE	
		REVISIONS 2					
		REVISIONS 3					
		REVISIONS 4				WIN	
		FIELD CHANGES				22643.00	
						HIGHWAY PLANS	

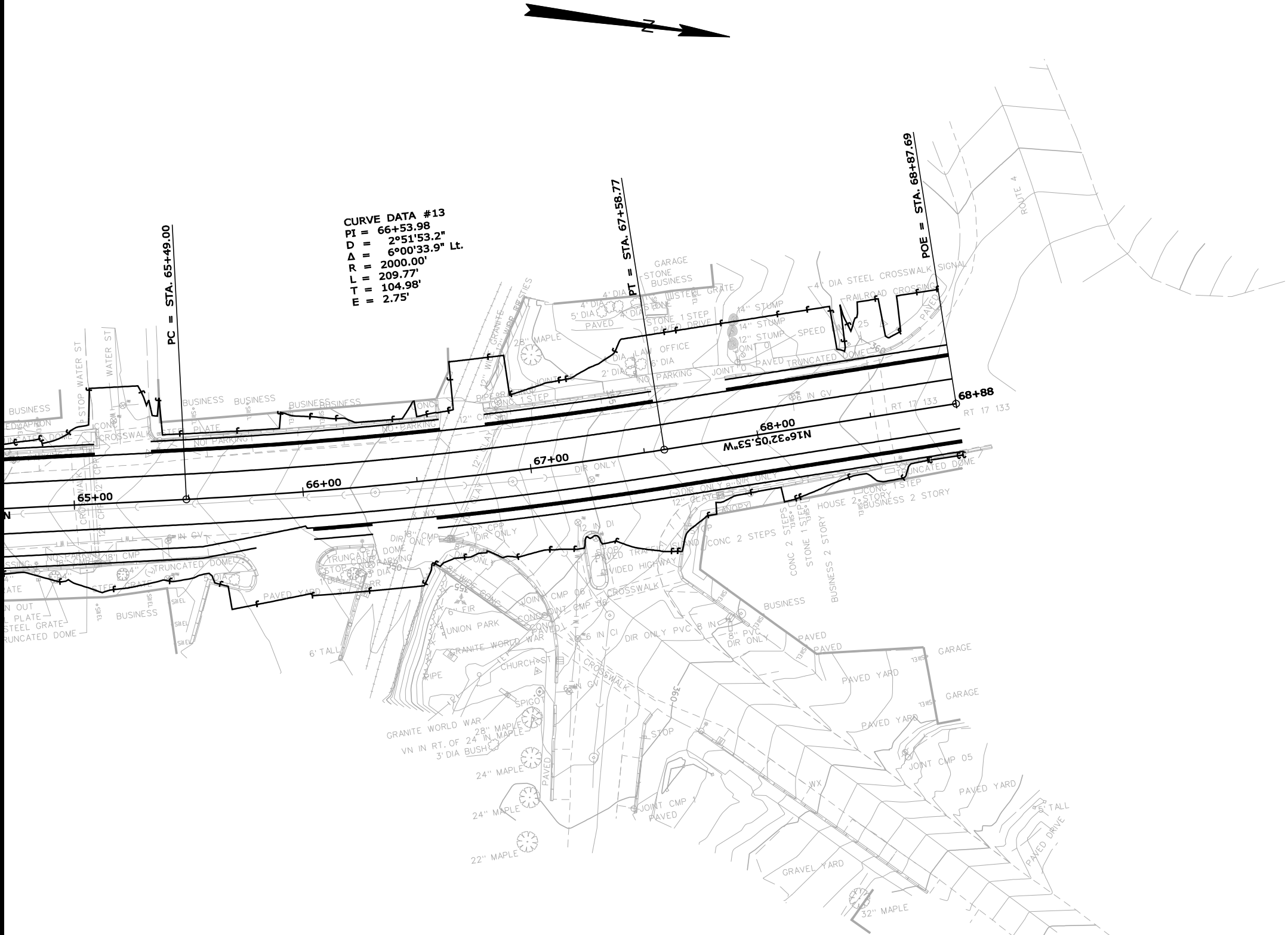
OF 10

SHEET NUMBER

8

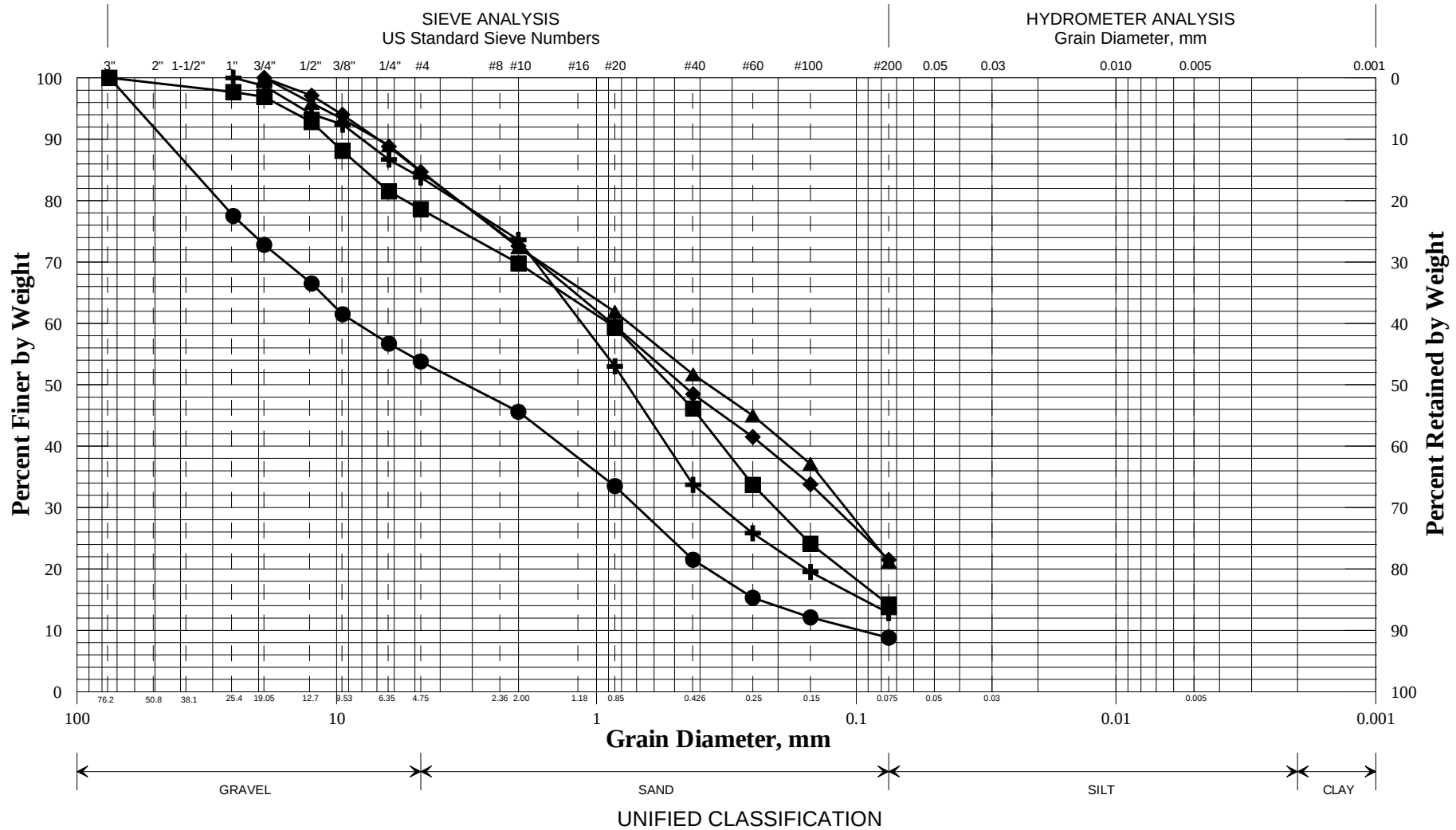


LIVERMORE FALLS ROUTE 17		SHEET NUMBER		9		OF 10	
GEOPLANS							
PROJ. MANAGER		BY		DATE		STATE OF MAINE DEPARTMENT OF TRANSPORTATION NHPP-2264(300) WIN 22643.00 HIGHWAY PLANS	
DESIGN-DETAILED							
CHECKED-REVIEWED				SIGNATURE			
DESIGN2-DETAILED		K. GROSS		MAY 2017			
DESIGN3-DETAILED				P.E. NUMBER			
REVISIONS 1							
REVISIONS 2							
REVISIONS 3							
REVISIONS 4						DATE	
FIELD CHANGES							



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		SIGNATURE P.E. NUMBER DATE			
NHP-2264(300)					
WIN					
22643.00					
HIGHWAY PLANS					
LIVERMORE FALLS ROUTE 17		GEOPLANS			
SHEET NUMBER					
10					
OF 10					

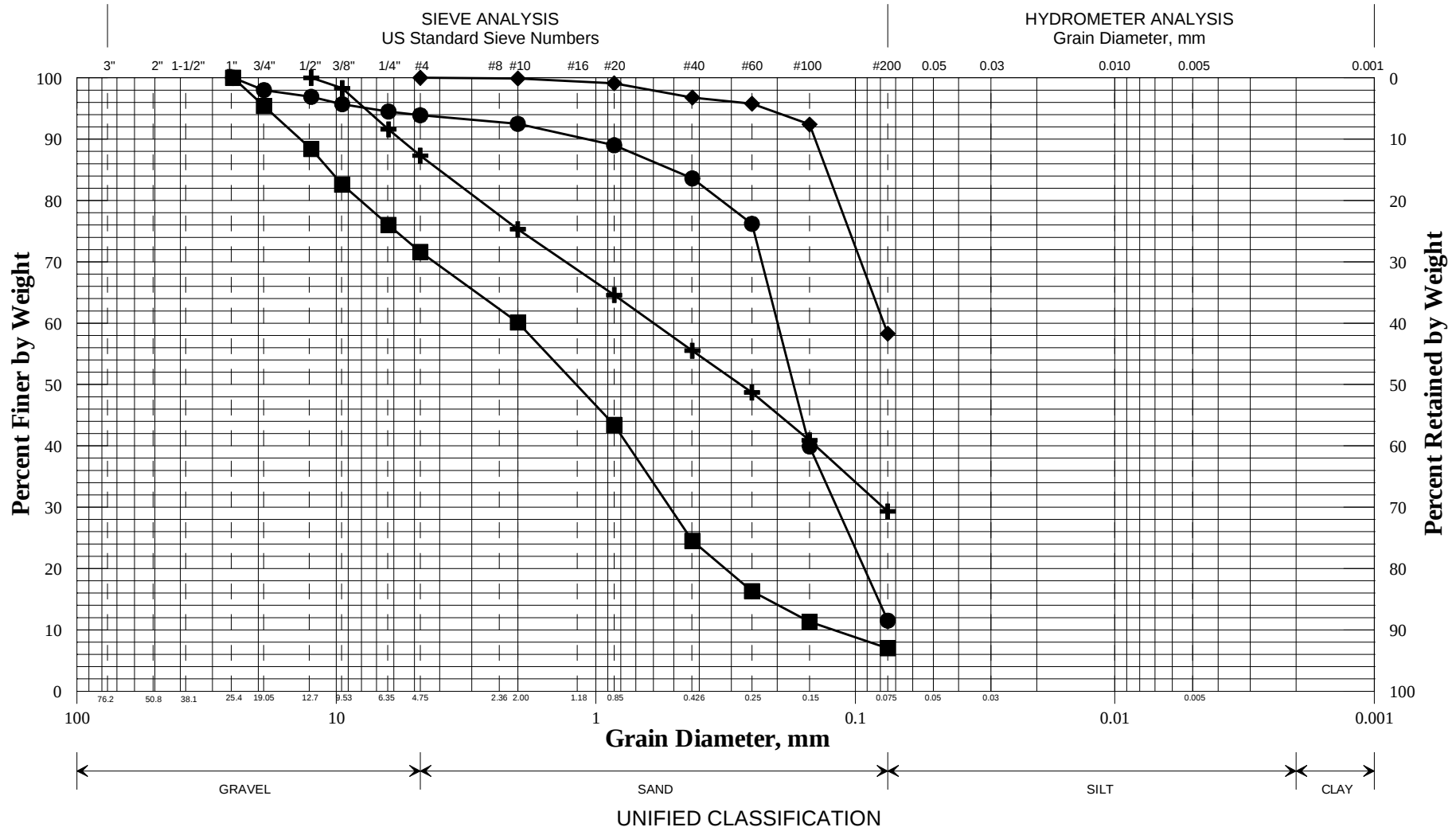
State of Maine Department of Transportation
GRAIN SIZE DISTRIBUTION CURVE



	Boring/Sample No.	Station	Offset, ft	Depth, ft	Description	W, %	LL	PL	PI
+	HB-LIFA-101/S1	13+68	6.0 LT	0.5-3.5	SAND, little gravel, little silt.	3.2			
◆	HB-LIFA-101/S2	13+68	6.0 LT	3.5-5.0	SAND, some silt, little gravel.	6.5			
■	HB-LIFA-102/1B	22+90	6.0 LT	0.5-2.3	SAND, little gravel, little silt.	3.5			
●	HB-LIFA-104/2B	41+98	7.0 RT	0.5-1.4	Sandy GRAVEL, trace silt.	2.8			
▲	HB-LIFA-104/S4	41+98	7.0 RT	1.4-5.0	SAND, some silt, little gravel.	7.7			
×									

WIN
022643.00
Town
Livermore Falls
Reported by/Date
WHITE, TERRY A 6/17/2015

State of Maine Department of Transportation
GRAIN SIZE DISTRIBUTION CURVE



	Boring/Sample No.	Station	Offset, ft	Depth, ft	Description	W, %	LL	PL	PI
+	HB-LIFA-105/S5	49+88	6.0 LT	0.54-1.4	SAND, some silt, little gravel.	17.1			
◆	HB-LIFA-105/S6	49+88	6.0 LT	1.4-5.0	Sandy SILT.	22.5			
■	HB-LIFA-106/S7	60+00	14.0 RT	0.33-1.7	SAND, some gravel, trace silt.	1.9			
●	HB-LIFA-106/S8	60+00	14.0 RT	1.7-5.0	SAND, little silt, trace gravel.	5.3			
▲									
×									

WIN	
022643.00	
Town	
Livermore Falls	
Reported by/Date	
WHITE, TERRY A	6/17/2015