

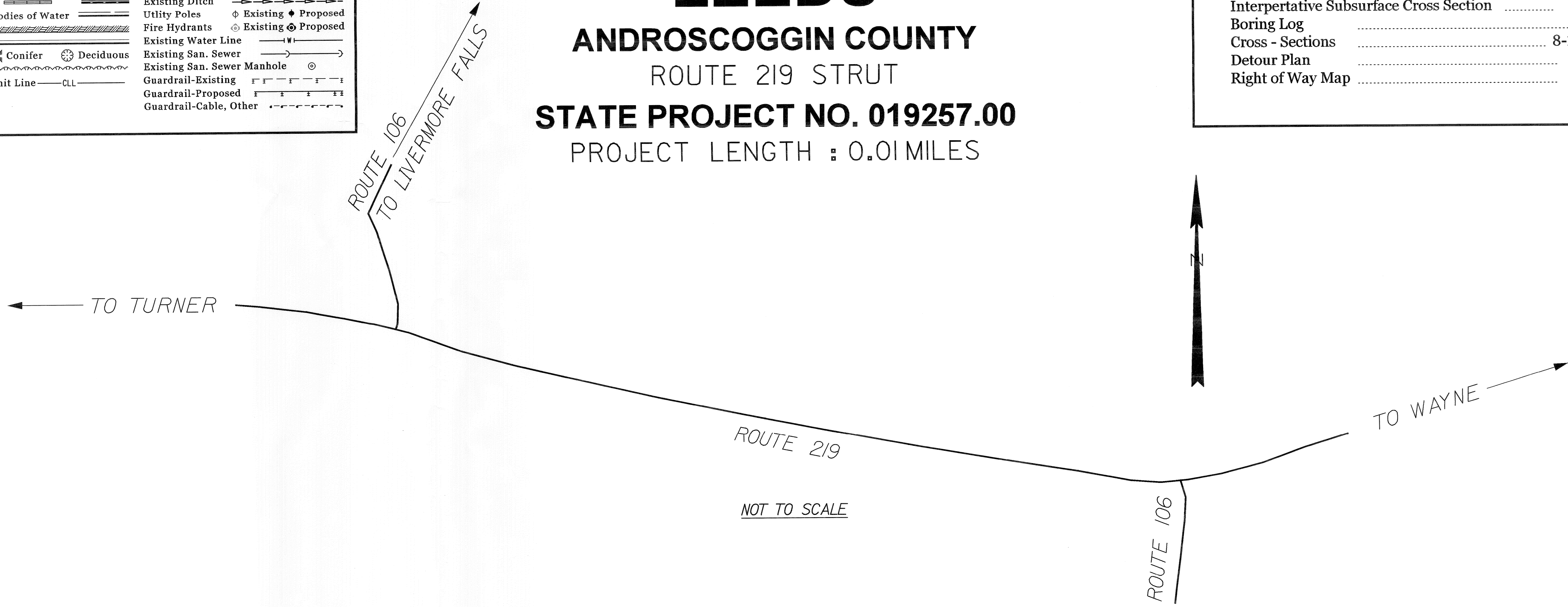
STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



LEEDS
ANDROSCOGGIN COUNTY
ROUTE 219 STRUT
STATE PROJECT NO. 019257.00
PROJECT LENGTH : 0.01 MILES

PLAN LEGEND	
Town, County, State	Centerline-Existing
Property Lines	Centerline-Proposed
R/W Lines-Existing	Travelway-Existing
R/W Lines-Proposed	Travelway-Proposed
Culvert-Existing	Railroad
Culvert Proposed	Catch Basins
Curbing Existing	Manholes
Curbing Proposed	Proposed Underdrain
Type 1	Proposed Ditch
Type 3	Existing Ditch
Type 5	Utility Poles
Outline of Bodies of Water	Fire Hydrants
Ledge	Existing Water Line
Buildings	Existing San. Sewer
Trees	Existing San. Sewer Manhole
Tree Line	Guardrail-Existing
Clearing Limit Line	Guardrail-Proposed
	Guardrail-Cable, Other

INDEX OF SHEETS	
Description	Sheet No.
Title Sheet	1
Typical Sections	2
Estimated Quantities	3
Plan	4
Profile	5
Interpretative Subsurface Cross Section	6
Boring Log	7
Cross - Sections	8-10
Detour Plan	11
Right of Way Map	12



TRAFFIC DATA
Current (2012) AADT 1820

PROJECT LOCATION:	LEEDS, RTE. 219 APPROXIMATELY 0.01 MILES WESTERLY OF THE THE EASTERN INTERSECTION OF RT 219/106.
PROGRAM AREA:	HIGHWAY
SCOPE OF WORK:	STRUT REPLACEMENT

WIN 019257.00

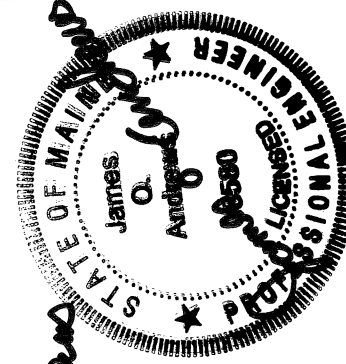
LEEDS
ROUTE 219 STRUT
TITLE SHEET

SHEET NUMBER

1

OF 12

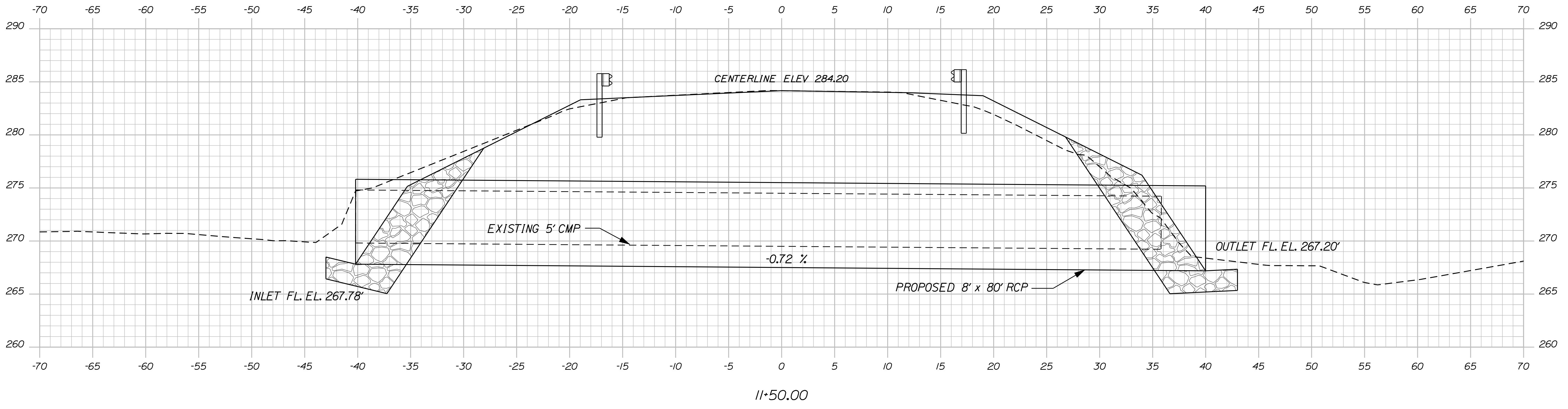
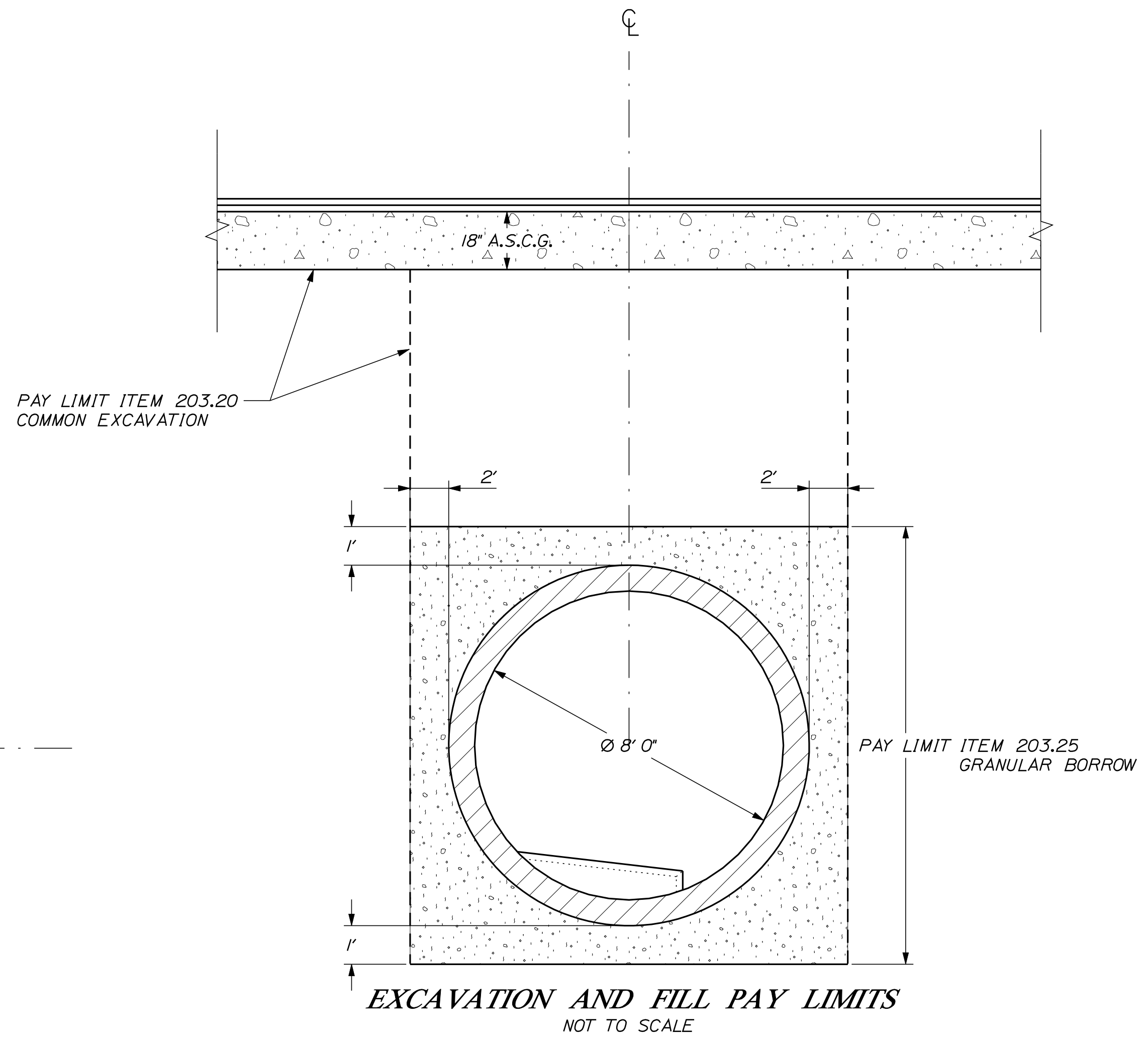
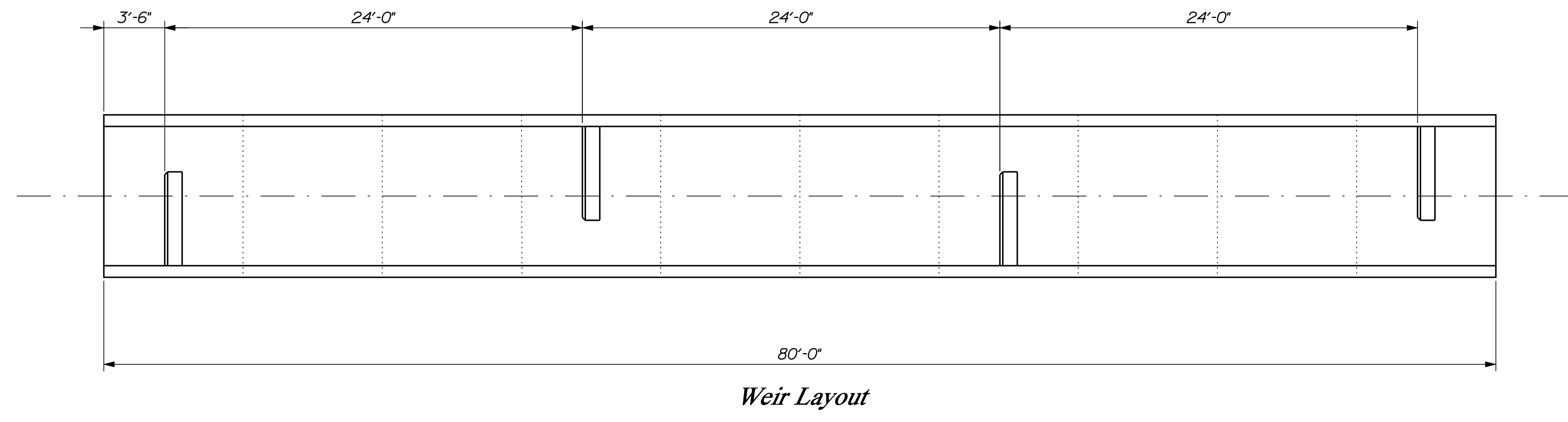
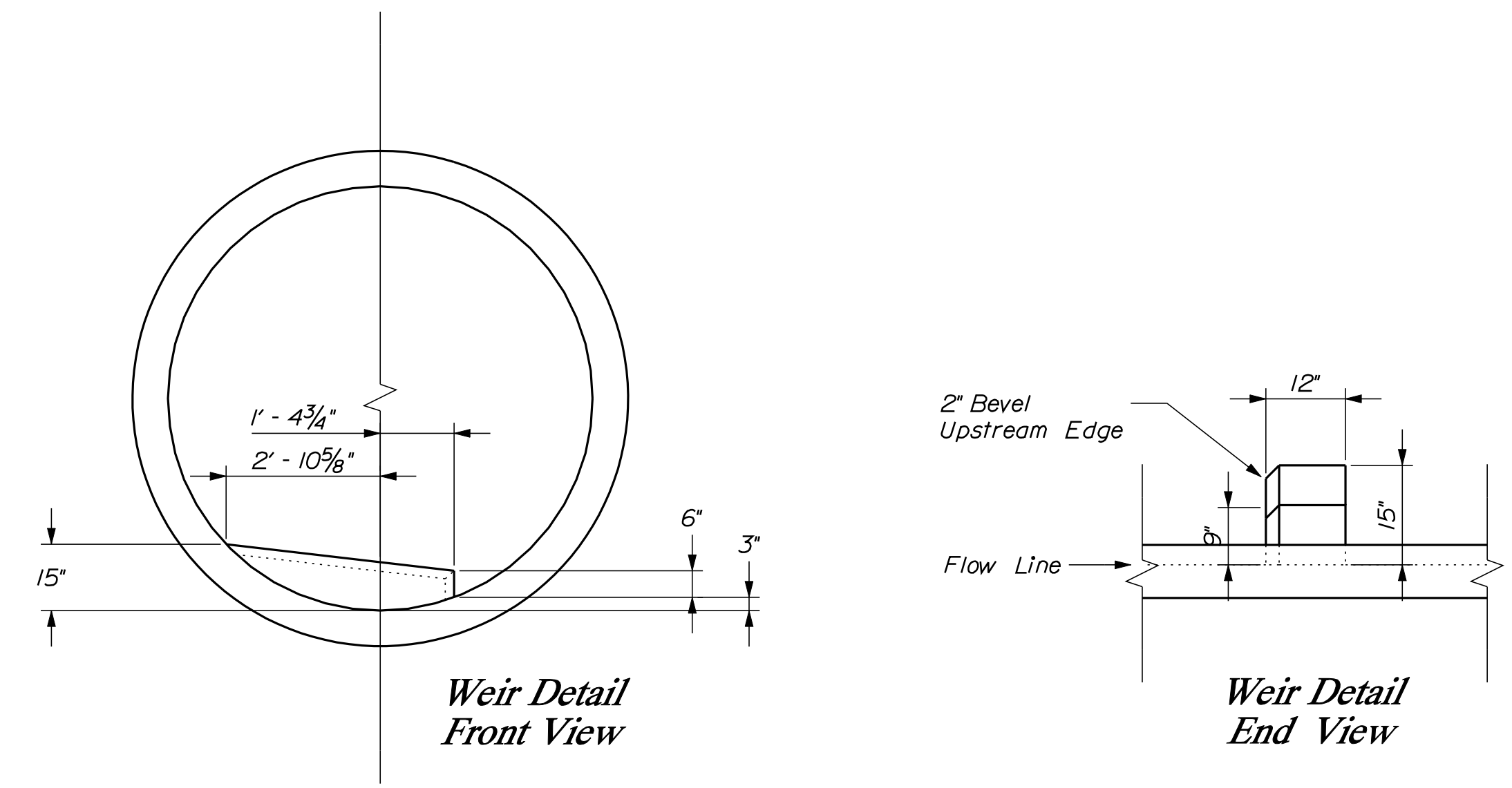
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
APPROVED	DATE
<i>[Signature]</i>	10/26/12
COMMISSIONER:	
CHIEF ENGINEER:	



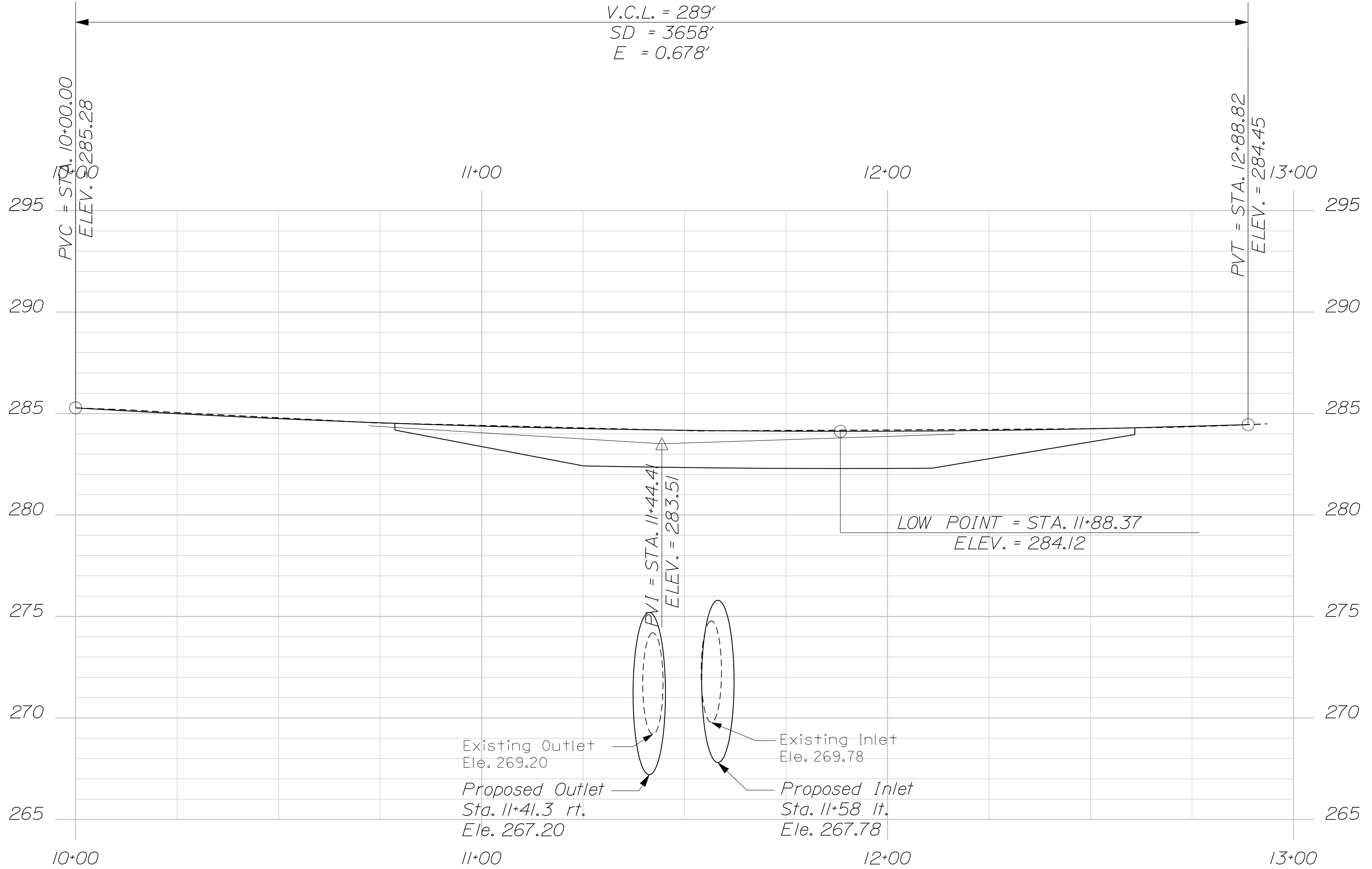
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SIGNATURE	
8580	
P.E. NUMBER	
10/22/12	
DATE	

PROJECT INFORMATION	
PROGRAM	
PROJECT MANAGER	
DESIGNER	
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

Filename: ... \00\highway\msto\002_Xsect.dgn Division: HIGHWAY Username: randell.borrows Date: 10/30/2012



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
019257.00		WIN 019257.00	
HIGHWAY PLANS			
PROJ. MANAGER	BY	DATE	SIGNATURE
CHECKED/REVIEWED	T. WHITE	MAY 2012	
DESIGN DETAILER	K. BRESKIN		
DESIGN DETAILER			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES		DATE	
LEEDS		ROUTE 219 STRUT	
CULVERT DETAILS		SHEET NUMBER	
2		OF 12	



PROFILE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
019257.00
PIN 019257.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE
CHECKED-REVIEWED	T. WHITE	MAY 2012
DESIGN DETAILED	K. BRESKIN	
DESIGN DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

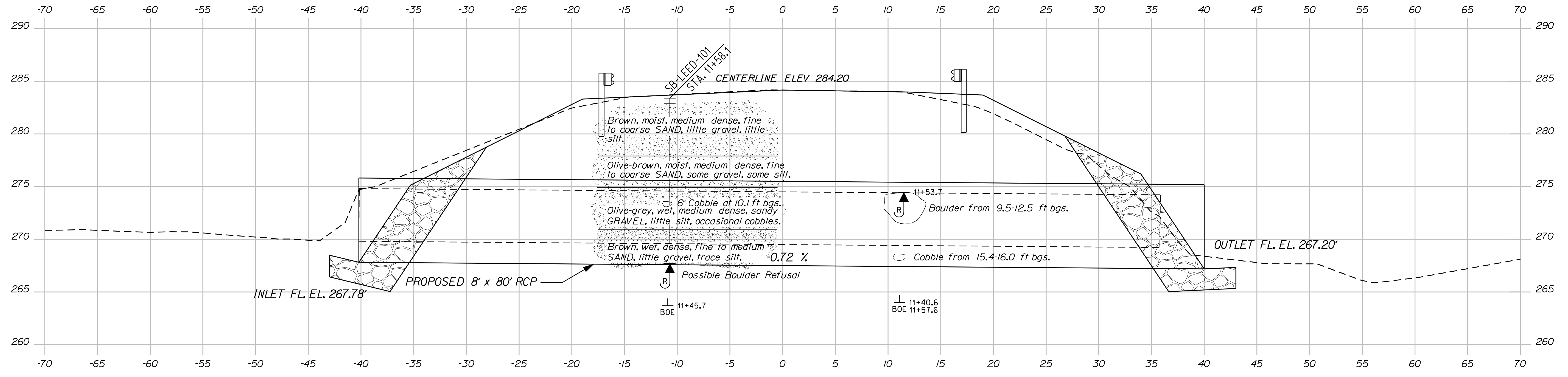
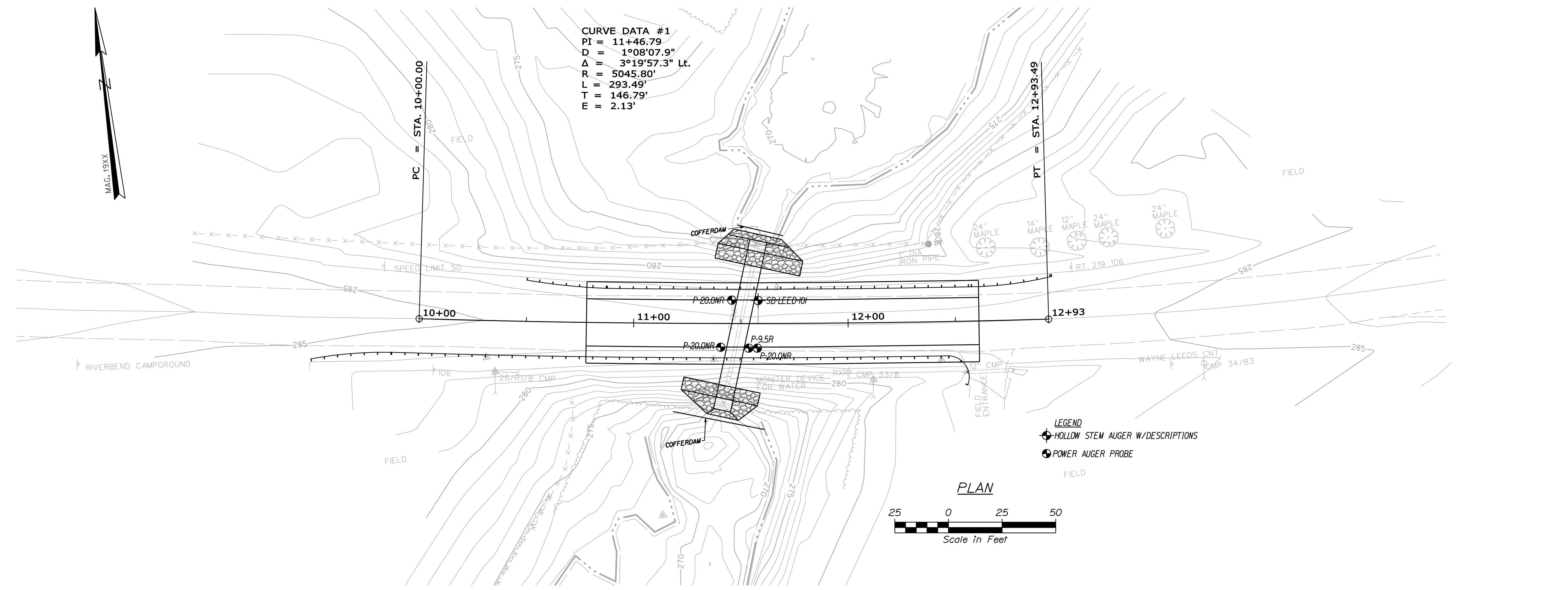
LEEDS
ROUTE 219
PROFILE

SHEET NUMBER
5
OF 12

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN DETAILED					
CHECKED/REVIEWED					
DESIGN DETAILED	T. WHITE	MAY 2012			
DESIGN DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

LEEDS
ROUTE 219 STRUT
GEOPLAN & INTERPRETIVE
SUBSURFACE CROSS SECTION

CURVE DATA #1
 PI = 11+46.79
 D = 1°08'07.9"
 Δ = 3°19'57.3" Lt.
 R = 5045.80'
 L = 293.49'
 T = 146.79'
 E = 2.13'



Note: This generalized interpretive soil cross section is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

Maine Department of Transportation Soil/Rock Exploration Log US CUSTOMARY UNITS		Project: Route 219 Strut Location: Leeds, Maine	Boring No.: SB-LEED-101																																																																														
Driller: MaineDOT	Elevation (ft.): 283.4	Auger ID/OD: 2.25/6.25"	WIN: 19257.00																																																																														
Operator: Giguere/Giles/Daggett	Datum: NAVD88	Sampler: Standard Split Spoon																																																																															
Logged By: B. Wilder	Rig Type: CME 45C	Hammer Mt./Fall: 140#/30"																																																																															
Date Start/Finish: 5/17/12: 08:30-12:00	Drilling Method: Hollow Stem Auger	Core Barrel: N/A																																																																															
Boring Location: 11+58.1, 10.7 ft Lt.	Casing ID/OD: N/A	Water Level*: None Observed																																																																															
Hammer Efficiency Factor: 0.84	Hammer Type: Automatic <input checked="" type="checkbox"/> Hydraulic <input type="checkbox"/> Rope & Cathead <input type="checkbox"/>																																																																																
<small> Definitions: D = Split Spoon Sample, MD = Unsuccessful Split Spoon Sample attempt, U = Thin Wall Tube Sample, MU = Unsuccessful Thin Wall Tube Sample attempt, V = In situ Vane Shear Test, MV = Unsuccessful In situ Vane Shear Test attempt. R = Rock Core Sample, SSA = Split Stem Auger, HSA = Hollow Stem Auger, RC = Roller Cone, W = weight of 140lb. hammer, WLL = weight of one blow. S_u = In situ Field Vane Shear Strength (psf), T_v = Pocket Torque Shear Strength (psf), q_u = Unconfined Compressive Strength (ksf), N_{uncorrected} = Raw field SPT N-value, Hammer Efficiency Factor = Annual Calibration Value, N₅₀ = SPT N_{uncorrected} corrected for hammer efficiency G, G = Grain Size Analysis, N_{50c} = Hammer Efficiency Factor/105%_{uncorrected}, C = Consolidation Test. S_{u(Lab)} = Lab Vane Shear Strength (psf), WC = water content, percent, LL = Liquid Limit, PL = Plastic Limit, PI = Plasticity Index. </small>																																																																																	
<table border="1"> <thead> <tr> <th rowspan="2">Depth (ft.)</th> <th colspan="6">Sample Information</th> <th rowspan="2">Graphic Log</th> <th rowspan="2">Visual Description and Remarks</th> <th rowspan="2">Laboratory Testing Results / AASHTO Unified Class</th> </tr> <tr> <th>Sample No.</th> <th>Pen./Rec. (in.)</th> <th>Sample Depth (ft.)</th> <th>Blows (1/6 in. Strength or Rod (1'))</th> <th>N_{uncorrected}</th> <th>N₅₀</th> <th>Casing Blows</th> <th>Elevation (ft.)</th> </tr> </thead> <tbody> <tr> <td>0</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>6.5" PAVEMENT.</td> <td></td> </tr> <tr> <td>10</td> <td>24/5</td> <td>1.00 - 3.00</td> <td>5/6/7/12</td> <td>13</td> <td>18</td> <td></td> <td>282.86</td> <td>Brown, moist, medium dense, fine to coarse SAND, little gravel, little silt.</td> <td>G0264056 A-1-b, SM WC=5.1%</td> </tr> <tr> <td>5</td> <td>24/17</td> <td>5.00 - 7.00</td> <td>5/7/8/9</td> <td>15</td> <td>21</td> <td></td> <td>277.90</td> <td>Olive-brown, moist, medium dense, fine to coarse SAND, some gravel, some silt.</td> <td>G0264057 A-2-4, SM WC=10.0%</td> </tr> <tr> <td>10</td> <td>24/14</td> <td>10.00 - 12.00</td> <td>6/11/11/13</td> <td>22</td> <td>31</td> <td></td> <td>270.90</td> <td>Olive-grey, wet, medium dense, sandy GRAVEL, little silt, occasional cobbles.</td> <td>G0264058 A-1-b, GM WC=17.9%</td> </tr> <tr> <td>15</td> <td>8.4/8</td> <td>15.00 - 15.70</td> <td>20/30(2.4")</td> <td>---</td> <td></td> <td></td> <td>267.70</td> <td>Brown, wet, dense, fine to medium SAND, little gravel, trace silt.</td> <td></td> </tr> <tr> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>Bottom of Exploration at 15.70 feet below ground surface. POSSIBLE BOULDER REFUSAL</td> <td></td> </tr> </tbody> </table>				Depth (ft.)	Sample Information						Graphic Log	Visual Description and Remarks	Laboratory Testing Results / AASHTO Unified Class	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows (1/6 in. Strength or Rod (1'))	N _{uncorrected}	N ₅₀	Casing Blows	Elevation (ft.)	0								6.5" PAVEMENT.		10	24/5	1.00 - 3.00	5/6/7/12	13	18		282.86	Brown, moist, medium dense, fine to coarse SAND, little gravel, little silt.	G0264056 A-1-b, SM WC=5.1%	5	24/17	5.00 - 7.00	5/7/8/9	15	21		277.90	Olive-brown, moist, medium dense, fine to coarse SAND, some gravel, some silt.	G0264057 A-2-4, SM WC=10.0%	10	24/14	10.00 - 12.00	6/11/11/13	22	31		270.90	Olive-grey, wet, medium dense, sandy GRAVEL, little silt, occasional cobbles.	G0264058 A-1-b, GM WC=17.9%	15	8.4/8	15.00 - 15.70	20/30(2.4")	---			267.70	Brown, wet, dense, fine to medium SAND, little gravel, trace silt.		20								Bottom of Exploration at 15.70 feet below ground surface. POSSIBLE BOULDER REFUSAL	
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Remarks: Stratification lines represent approximate boundaries between soil types; transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.																																																																																	
			Page 1 of 1 Boring No.: SB-LEED-101																																																																														

State of Maine - Department of Transportation						
Power Auger Probe Summary Sheet						
Town(s): Leeds			Work Number: 19257.00			
Station (Feet)	Offset (Feet)	Weathered Rock (Feet)	Refusal (Feet)	No Refusal (Feet)	Water Depth (Ft.)	Comments / Date
11+45.7	10.9 Lt.			20.0		Similar soils and depth to SB-LEED-101
						6" Cobble at 10.1 ft bgs.
11+40.6	11.1 Rt.			20.0		Similar soils and depth to SB-LEED-101.
11+53.7	11.5 Rt.		9.5			9.5-12.5 ft bgs solid drilling, Boulder.
11+57.6	11.5 Rt.			20.0		Cobble from 15.4-16.0 ft bgs.

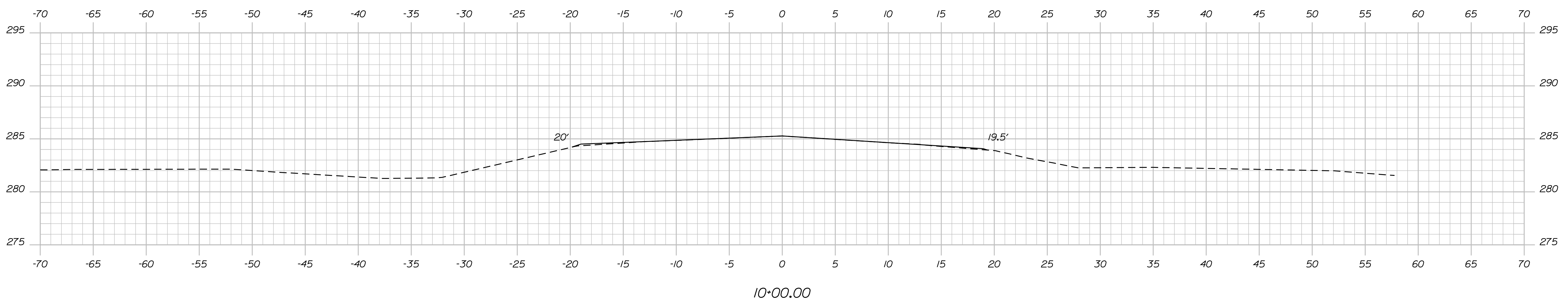
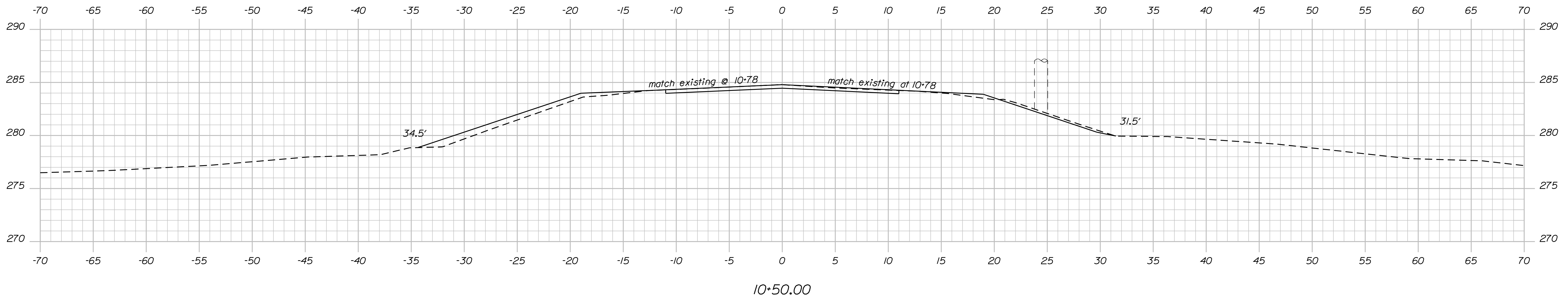
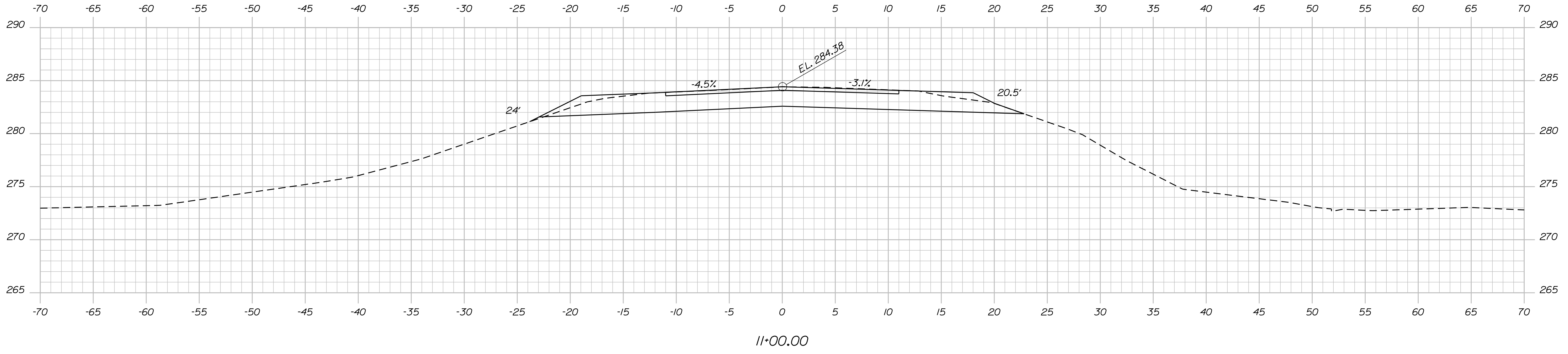
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LEEDS		ROUTE 219 STRUT	
BORING LOGS		SHEET NUMBER	
BY: T. WHITE		DATE: MAY 2012	
SIGNATURE		P.E. NUMBER	
DATE		FIELD CHANGES	
WIN		HIGHWAY PLANS	
19257.00		7	
		OF 12	

Date: 10/30/2012

Username: randall.barrrows

Division: HIGHWAY

Filename: ... \msta\008_Xsect_10+00_001.dgn



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
019257.00
PIN 019257.00
HIGHWAY PLANS

SIGNATURE
P.E. NUMBER
DATE

PROJ. MANAGER	BY	DATE
DESIGN DETAILED		
CHECKED-REVIEWED	T. WHITE	MAY 2012
DESIGN DETAILED	K. BRESKIN	
DESIGN DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

LEEDS
ROUTE 219 STRUT
CROSS SECTIONS

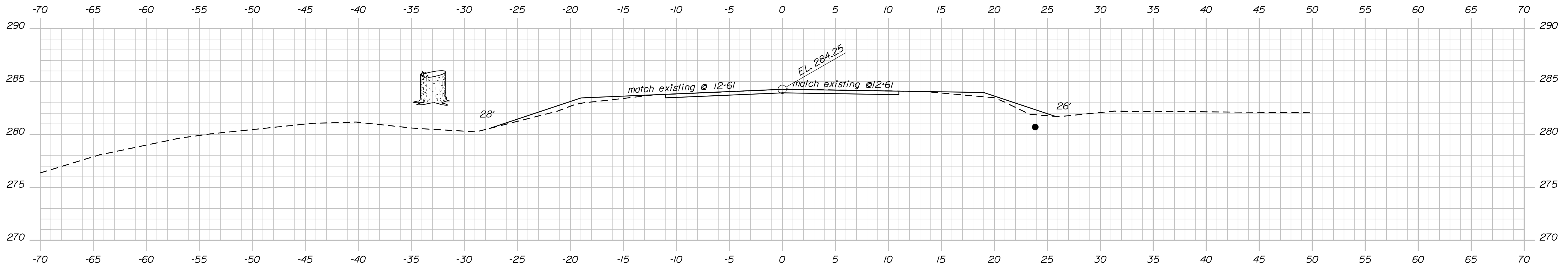
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OF 12

Date: 10/30/2012

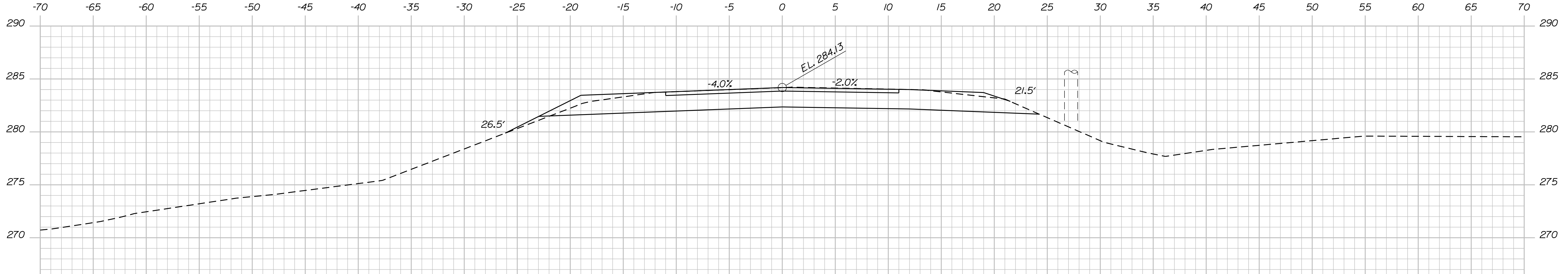
Username: randall.borrows

Division: HIGHWAY

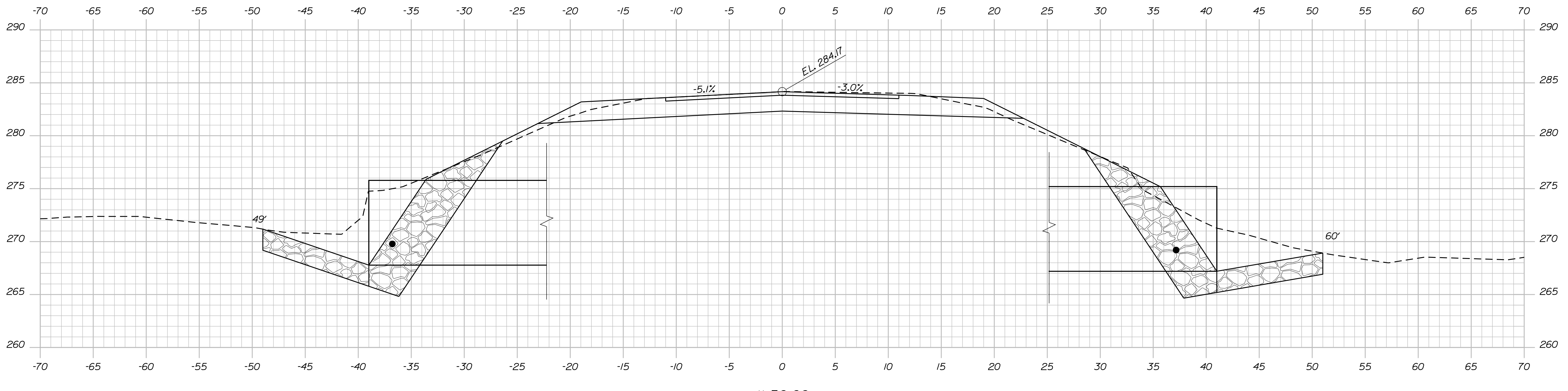
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12+50.00



12+00.00



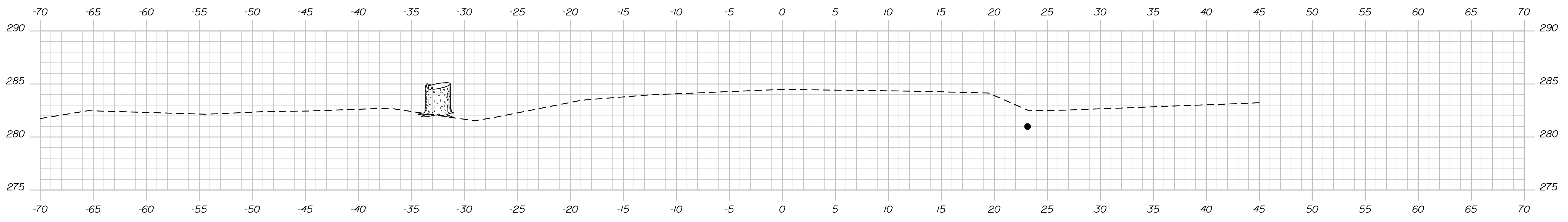
11+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
019257.00
PIN 019257.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN DETAILED					
CHECKED-REVIEWED	T. WHITE	MAY 2012			
DESIGNS DETAILED	K. BRESKIN				
DESIGNS DETAILED					
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

LEEDS
ROUTE 219 STRUT
CROSS SECTIONS

SHEET NUMBER
9
OF 12



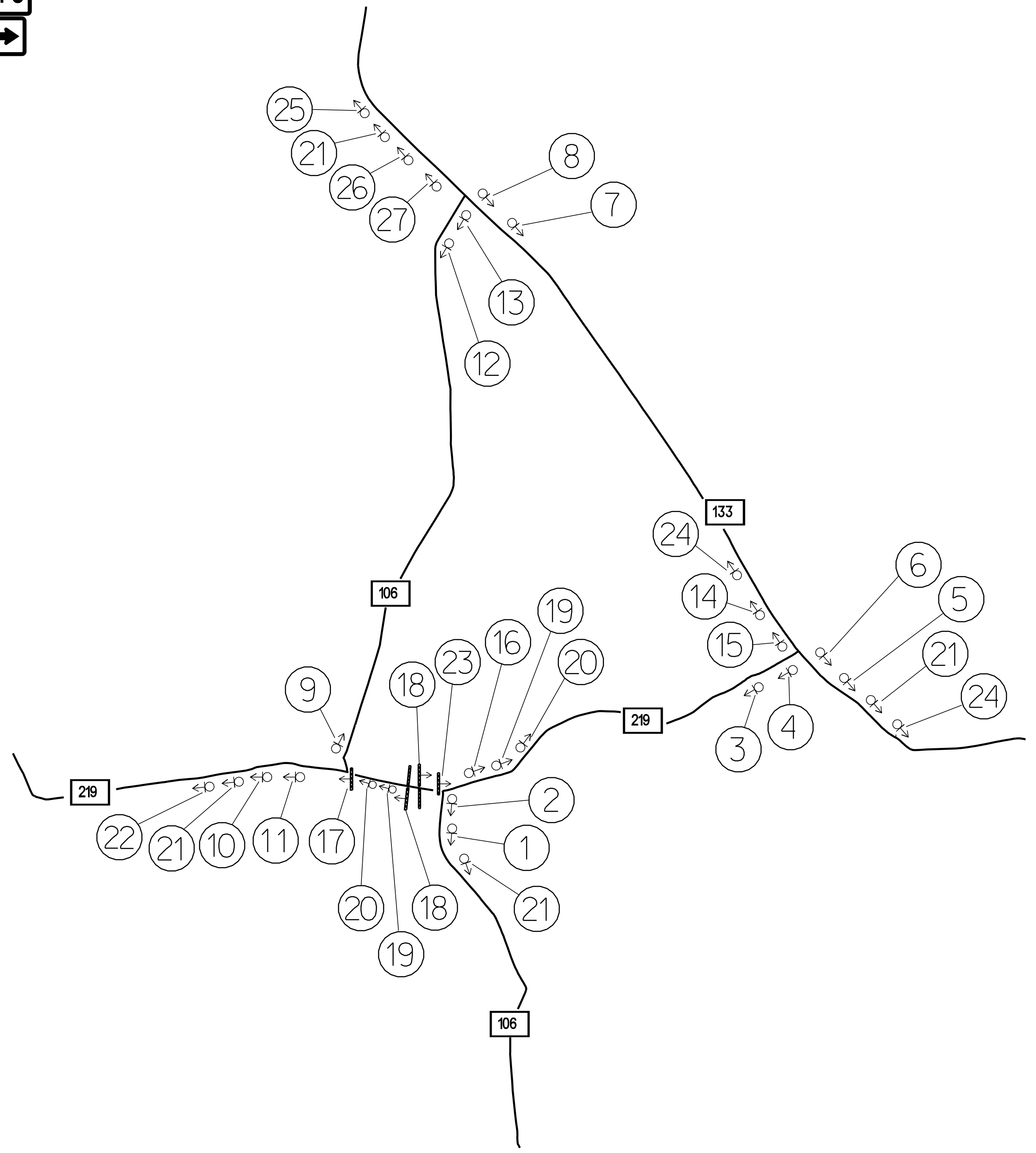
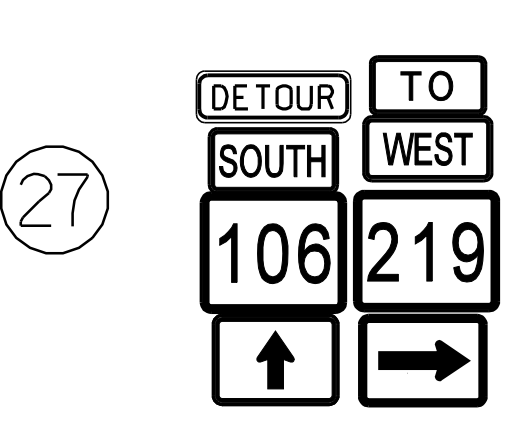
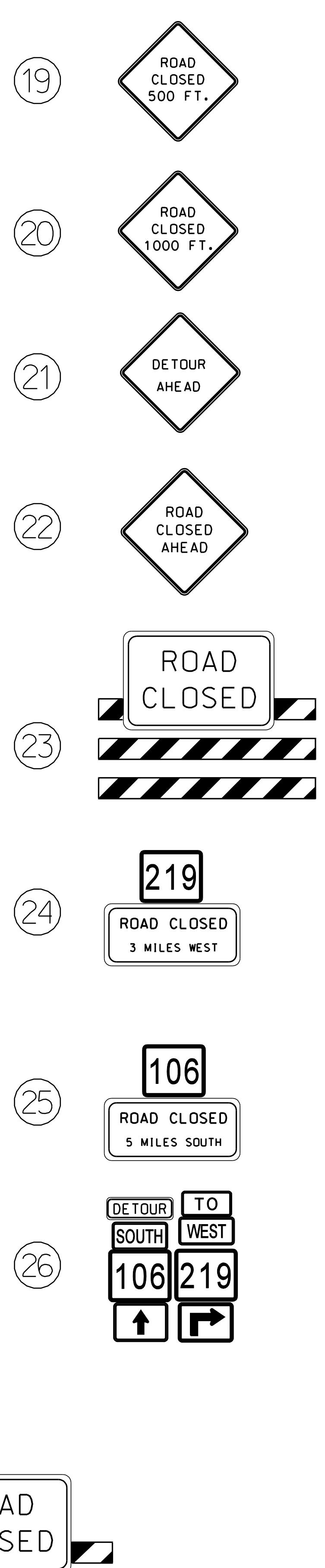
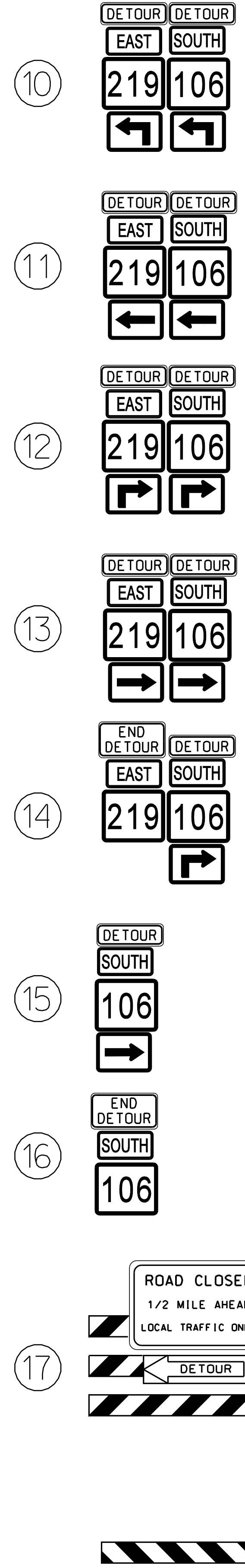
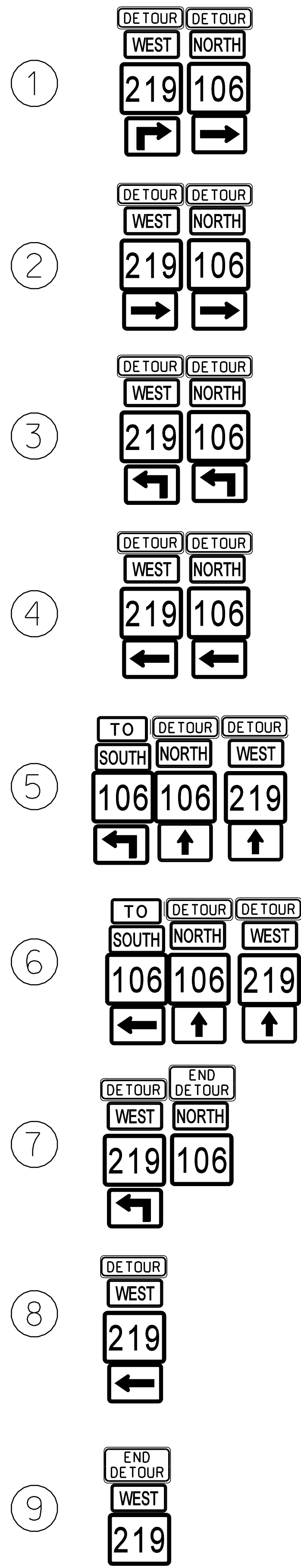
12+93.49

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
019257.00	
PIN	019257.00
HIGHWAY PLANS	

PROJ. MANAGER	BY	DATE
DESIGN DETAILED		
CHECKED/REVIEWED		
DESIGNS DETAILED	K. BRESKIN	T. WHITE
DESIGNS DETAILED		MAY 2012
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

LEEDS	SIGNATURE
ROUTE 219 STRUT	P. E. NUMBER
CROSS SECTIONS	DATE

SHEET NUMBER
10
OF 12



General Notes

- 1) Other signs may be needed as directed by the Resident.
- 2) Cover all conflicting route and destination signs.

NOT TO SCALE

