

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Eighth Edition 2017.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2018) AADT 11,750
Future (2038) AADT 14,100
DHV - % of AADT 10
Design Hour Volume 1410
Heavy Trucks (% of AADT) 7
Heavy Trucks (% of DHV) 3
Directional Distribution (% of DHV) 67
18 kip Equivalent P 2.0 456
18 kip Equivalent P 2.5 434
Design Speed (mph) 50

HYDROLOGIC DATA

Drainage Area 4.70 sq mi
Design Discharge (Q50) 409.4 cfs
Check Discharge (Q100) 479.5 cfs
Headwater Elevation (Q1.1) 219.67 ft
Headwater Elevation (Q25) 222.02 ft
Headwater Elevation (Q50) 222.42 ft
Headwater Elevation (Q100) 222.86 ft
Discharge Velocity (Q1.1) 3.09 fps
Discharge Velocity (Q50) 8.55 fps
Discharge Velocity (Q100) 9.01 fps

MATERIALS

Concrete:
Precast Class "P"
All Other Class "A"
Reinforcing Steel ASTM A 615/A 615M, Grade 60

BASIC DESIGN STRESSES

Concrete f 'c = 4000 psi
Precast Concrete f 'c = 5000 psi
Reinforcing Steel f y = 60,000 psi

LIST OF DRAWINGS

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GORHAM
CUMBERLAND COUNTY
HIGGINS BRIDGE
OVER
DOUGLAS BROOK
STATE ROUTE 25 / OSSIPEE TRAIL EAST
PROJECT NO. 23899.00
PROJECT LENGTH 0.086 mi.
BRIDGE NO. 2370

UTILITIES

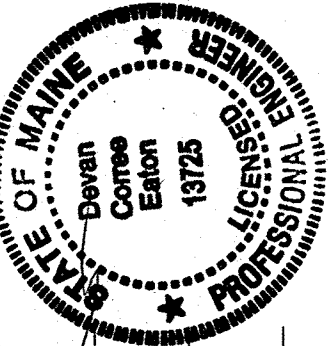
Central Maine Power Company Spectrum
Fairpoint Communications Town of Gorham (Fire)

MAINTENANCE OF TRAFFIC

Maintain alternating one - way traffic controlled by signals on a temporary on - site detour located to the south of Route 25.

PROJECT LOCATION	In Gorham, on State Route 25, Higgins Bridge (#2370) over Douglas Brook. Located 1.1 mile southeast of Dingley Springs Road Lat./Long. 43°42'30.1" N 70°30'34.6" W
PROGRAM AREA	Highway Bridges - Traditional
OUTLINE OF WORK	Bridge Culvert Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER	3/25/19
	CHIEF ENGINEER	3-20-19



SIGNATURE
13725
P.E. NUMBER
3/25/19
DATE

PROJECT INFORMATION	PROGRAM	BRIDGE PROGRAM
	PROJECT MANAGER	DEVAN EATON
	DESIGNER	DEVAN EATON
	CONSULTANT	N/A
	PROJECT RESIDENT	
	CONTRACTOR	
PROJECT COMPLETION DATE		

GORHAM HIGGINS BRIDGE	TITLE SHEET
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SHEET NUMBER
1
OF 16

Date:2/19/2019

Username: Devan.C.Eaton

Division: BRIDGE

Filename:\00\BRIDGE\WSTA\001_Title.dgn

WIN 023899.00

23899.00

[illegible]

GENERAL CONSTRUCTION NOTES

1. For easements, construction limits and right of way lines, refer to Right of Way Map.

2. The clearing limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.

3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.

4. All embankment material, except as otherwise shown shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill, with the additional requirement that maximum particle size be limited to 4 inches.

5. Place riprap on sideslopes up to EL. 223.00.

6. Bench existing fill slope soils in accordance with MaineDOT Standard Specification 203.09, Preparation of Embankment Area, where new fill slope extensions are constructed over existing slopes with grades greater than 2:1 (H:V).

7. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.

8. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Item No. 619.14, Erosion Control Mix.

9. Place a 24-in. wide strip of Extended-use Erosion Control Blanket on the sideslopes along the backside of the guardrail.

10. An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.

11. Project information referred to below may be accessed at the following
MaineDOT web address: <http://www.maine.gov/mdot/contractors/>

12. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the bridge. The plans do not show any construction field changes or any alterations which may have been made to the bridge during its life span.

13. The hydrologic report of the bridge site may be accessed at the MaineDOT web address. The hydrologic report is based on MaineDOT's interpretation of the information obtained for the subject site. No assurance is given that the information or the conclusions of the report will be representative of actual conditions at the time of construction.

14. The project geotechnical report titled: 'Geotechnical Design Report for the Higgins Bridge, State Route 25 Over Douglas Brook, Gorham, Maine, Soils Report No. 2018-53, may be accessed at the MaineDOT website.

15. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation.

16. To limit disturbance of the sensitive clay-silt subgrade and limit the risk of excavation bottom heave, the Contractor shall maintain the excavation so that the box culvert and bearing mat are constructed in the dry.

17. The soft to medium stiff clay-silt subgrade shall be excavated using a smooth edged bucket to minimize disturbance to the soil. The use of heavy equipment (i.e. equipment weighing more than a skid steer) on the clay/silt subgrade shall be prohibited. If the subgrade is disturbed, weakened, softened or otherwise rendered unacceptable to the Resident, the Contractor shall over excavate the disturbed subgrade one (1) foot and replace with compacted Granular Borrow to the subgrade level at the Contractor's expense.

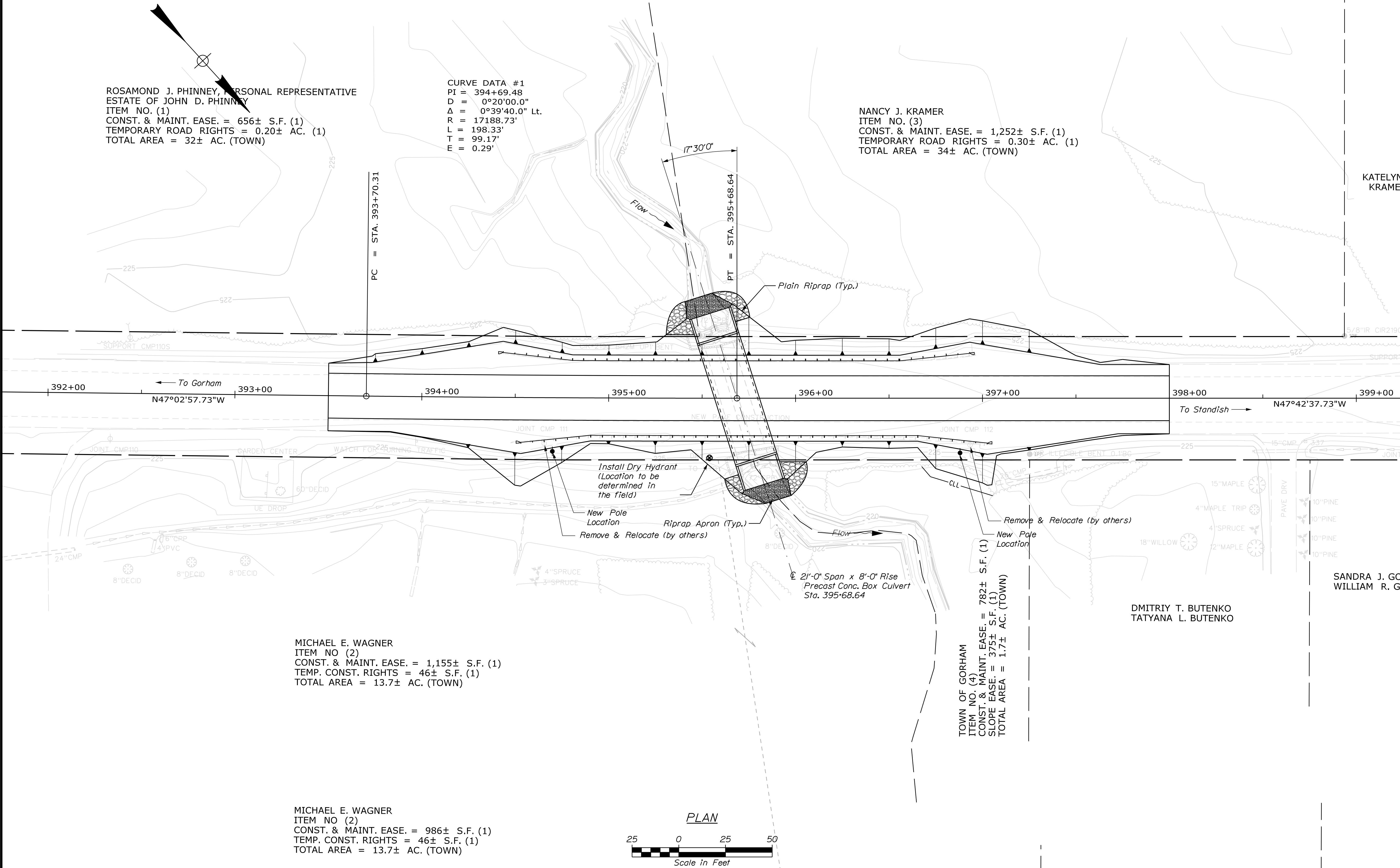
18. Stabilization/reinforcement geotextile shall be hand-deployed onto the prepared soil subgrade prior to installing the geogrid-reinforced crushed stone mat. The Stabilization/Reinforcement Geotextile shall meet MaineDOT Standard Specification 722.01. Adjoining sections of the stabilization geotextile shall be overlapped by a minimum of 2 feet.

19. Crushed stone bedding placed under the box culvert shall be placed in lifts between 8 inches and 12 inches thick loose measure and each lift shall be compacted with a minimum of 4 passes with a vibratory plate compactor. Include one lift of crushed stone bedding beneath geogrid.

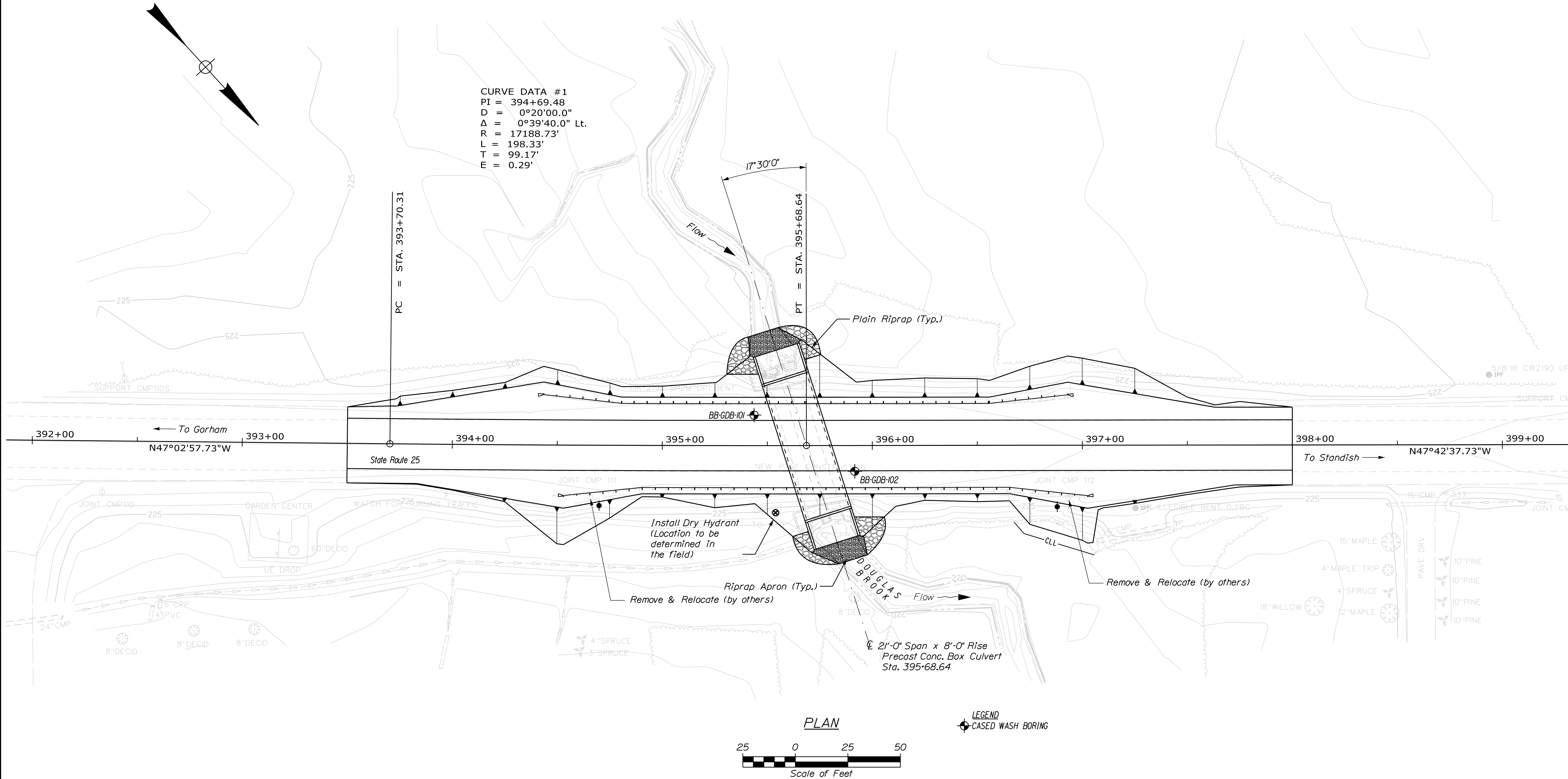
20. The contractor shall fill the bottom of the precast concrete box culvert with special fill varying from 2 feet to 2.5 feet. All material and labor will be incidental to Pay Item No. 203.33, Special Fill.

21. The hydraulic opening required for the Special Detour shall be greater than or equal to the current in place hydraulic opening.

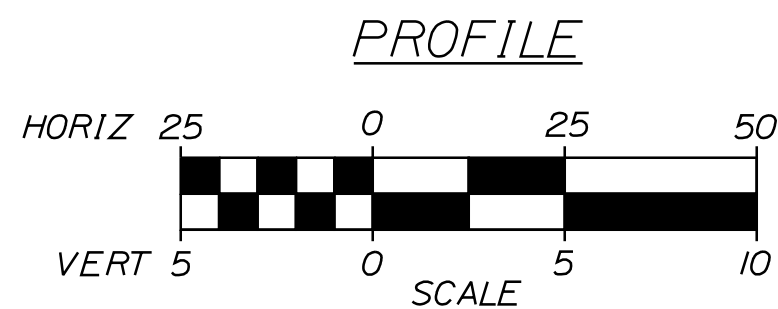
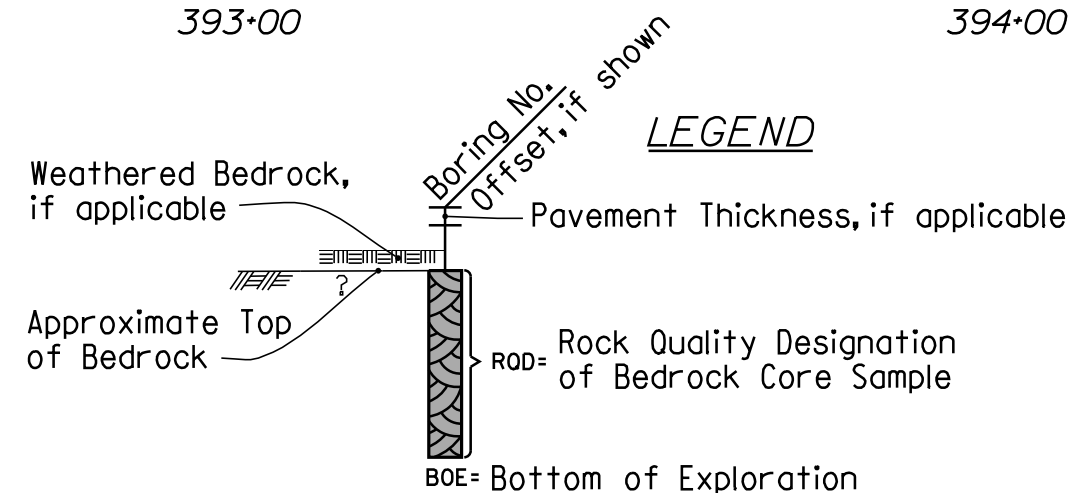
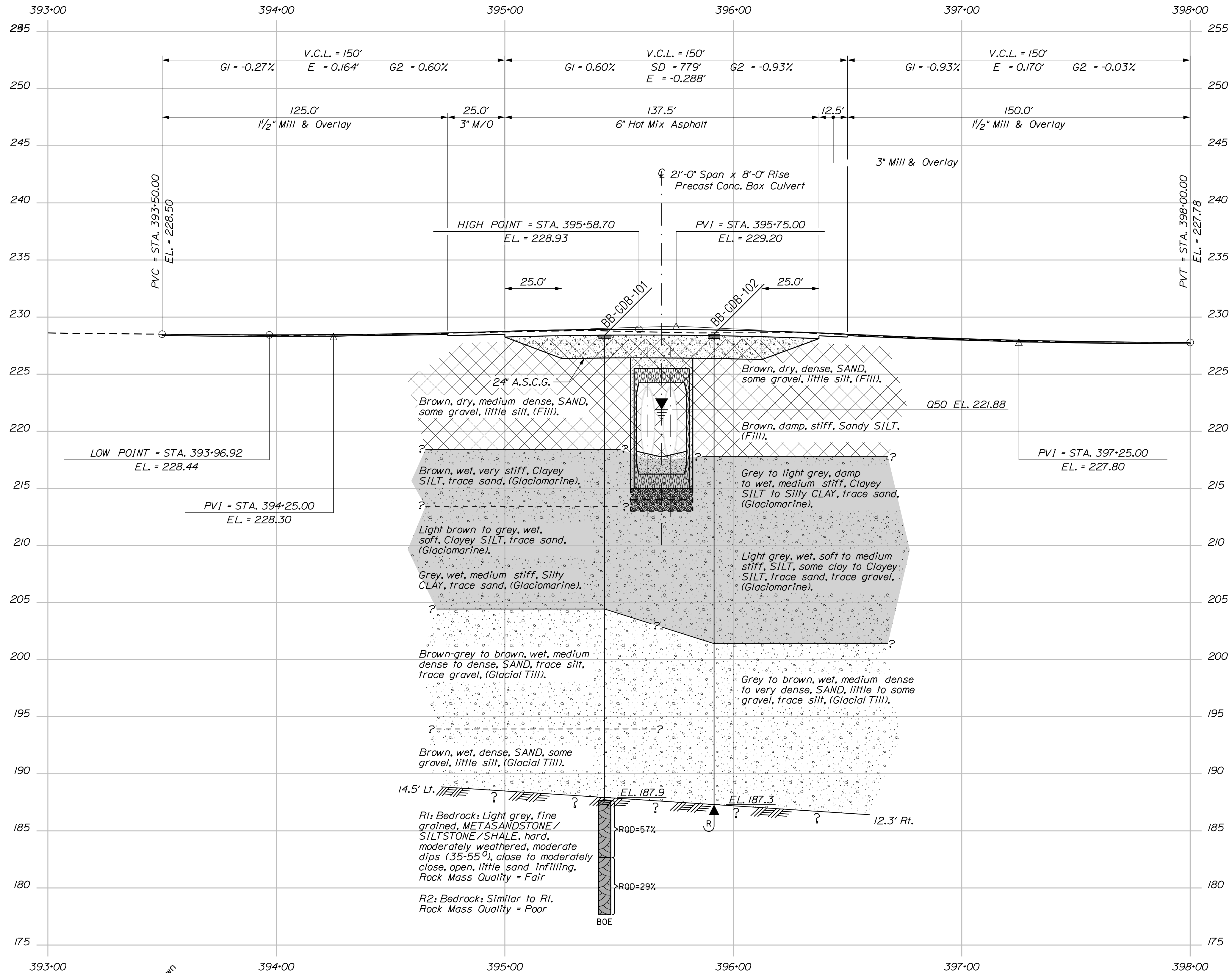
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	ESTIMATED QUANTITIES & GENERAL CONSTRUCTION NOTES				CHECKED-REVIEWED G. Gustafson SIGNATURE	
	DESIGN2-DETAILED2 DESIGN3-DETAILED3				P.E. NUMBER	
	REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES				DATE	



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		23899.00		WIN		023899.00		BRIDGE NO. 2370		BRIDGE PLANS	
HIGGINS BRIDGE		DOUGLAS BROOK		CUMBERLAND COUNTY		GORHAM		PRELIMINARY PLAN		SHEET NUMBER		3	
DATE		BY		SIGNATURE		P.E. NUMBER		DATE		FIELD CHANGES		OF 16	
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DESIGN-DETAILED		D. Eaton		G. Gustafson		REVISIONS 16		REVISIONS 17		REVISIONS 18		REVISIONS 19	
DESIGN-DETAILED		D. Eaton		G. Gustafson		REVISIONS 20		REVISIONS 21		REVISIONS 22		REVISIONS 23	
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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		SIGNATURE	
		P.E. NUMBER	
		DATE	
PROJECT MANAGER DEVON C. EATON		BY D. DAMREN	
CHECKED D. EATON		DATE JUN 2018	
DESIGNED T. WHITE		P.E. NUMBER	
REVISIONS 1		DATE	
REVISIONS 2		DATE	
REVISIONS 3		DATE	
REVISIONS 4		DATE	
FIELD CHANGES		DATE	
HIGGINS BRIDGE DOUGLAS BROOK CUMBERLAND COUNTY GORHAM		BORING LOCATION PLAN	
SHEET NUMBER 5		BRIDGE NO. 2370 WIN 023899.00 BRIDGE PLANS	
OF 16		23899.00	



Note: This generalized interpretive soil profile 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 and bedrock transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

PROJ. MANAGER	DEVON EATON	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
CHECKED-DETAILED	D. Eaton	D. Dornen	JUN 2018			
DESIGN-DETAILED	A. VANBISKIRK	T. WHITE				
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

Stratification lines represent approximate boundaries between soil types; transitions may be gradual.	Page 1 of 1
* 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.	Boring No.: BB-GDB-101

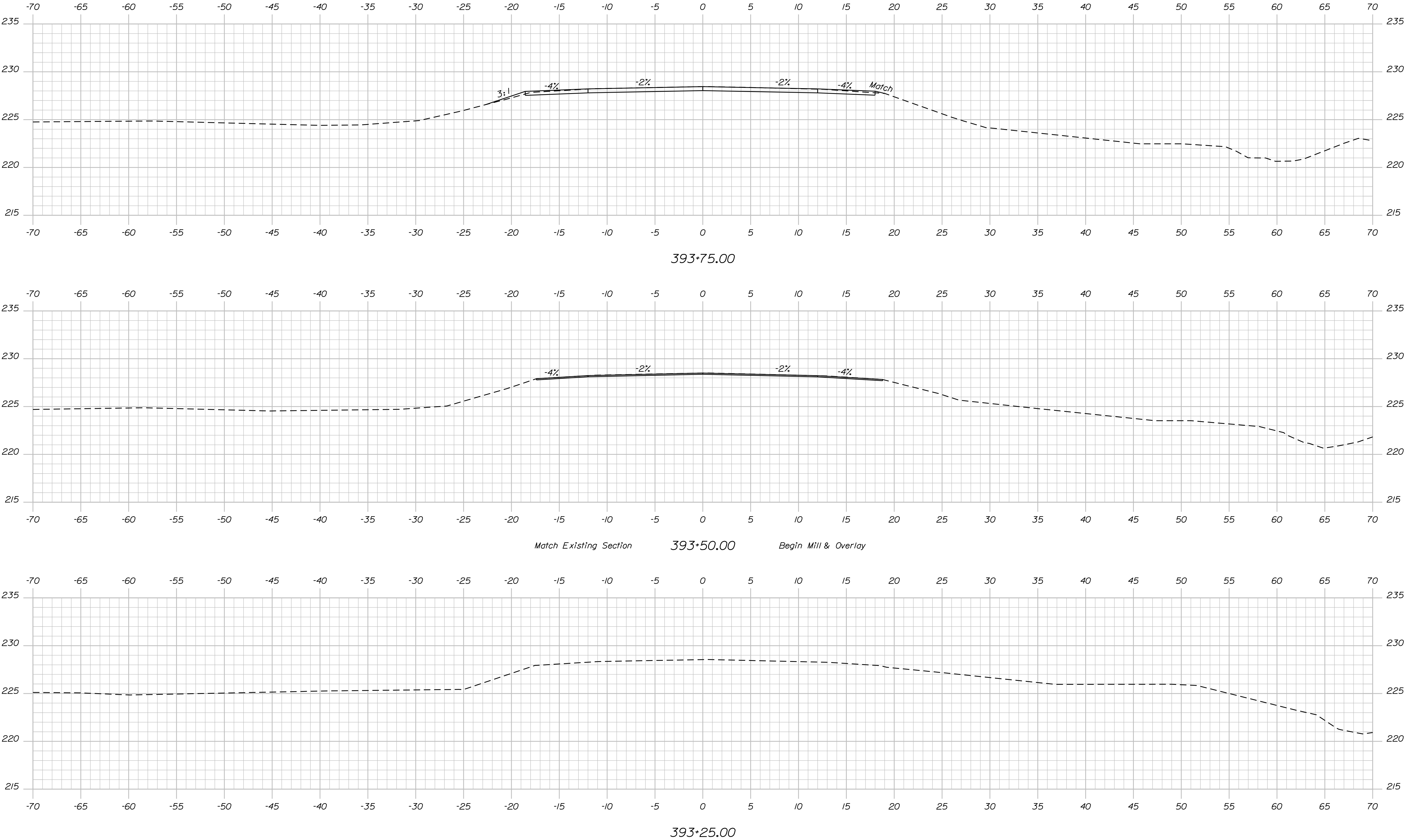
Stratification lines represent approximate boundaries between soil type; transitions may be gradual.	Page 1 of 1
* Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.	Boring No.: BB-GDB-102

Date:3/12/2019

Username: Devon.C.Eaton

Division: BRIDGE

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	SIGNATURE	
	23899.00	
	WIN	023899.00
BRIDGE NO. 2370		BRIDGE PLANS

PROJ. MANAGER	DEVON EATON	BY	DATE
CHECKED-REVIEWED	D. DORRAN	D. DORRAN	JAN 2019
DESIGN-DETAILED	G. GUSTAFSON	M. CRICHTON	
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

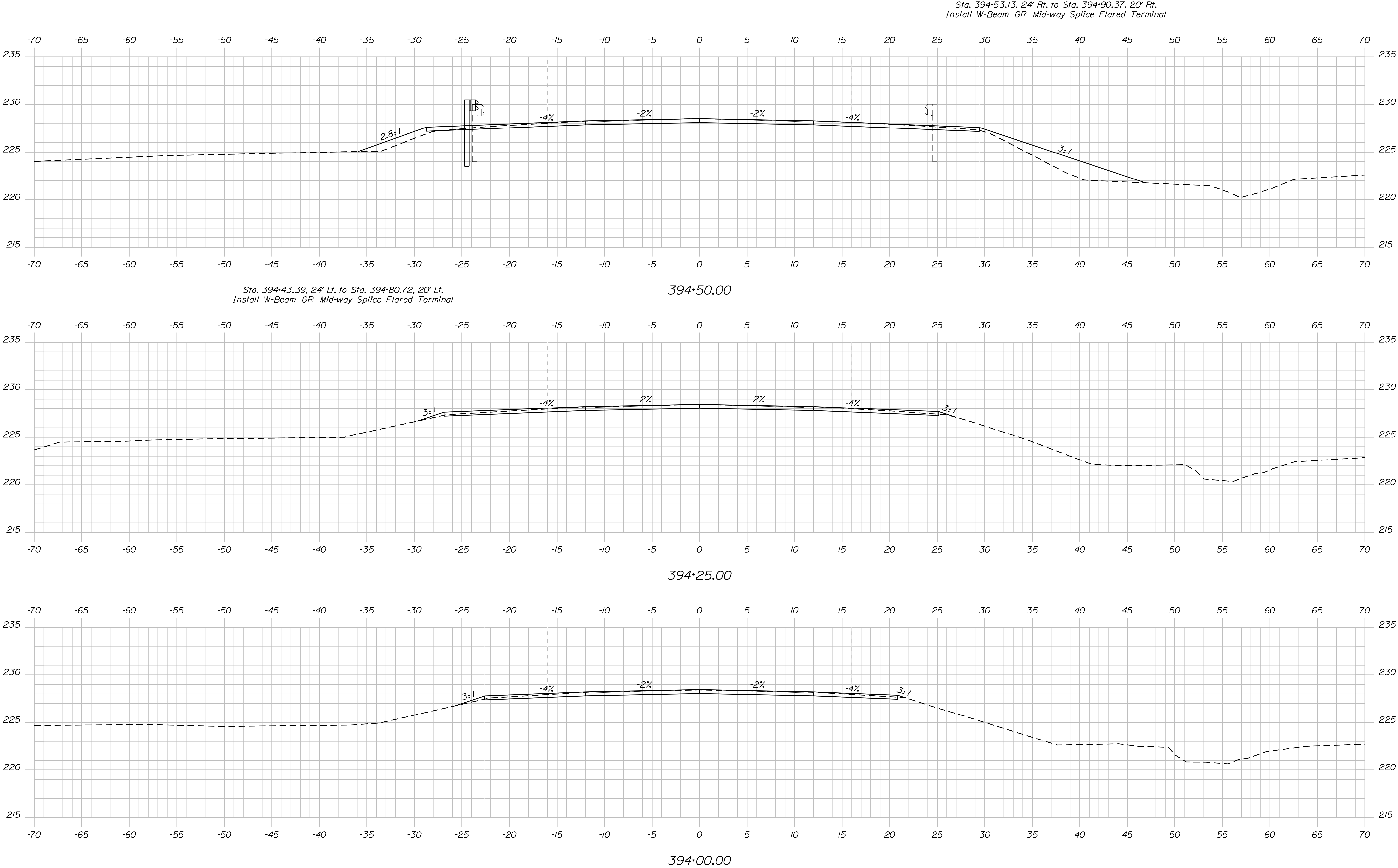
HIGGINS BRIDGE DOUGLAS BROOK CUMBERLAND COUNTY	CROSS SECTIONS
GORHAM	

SHEET NUMBER
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OF 16

Date:3/12/2019

Username: Devon.C.Eaton

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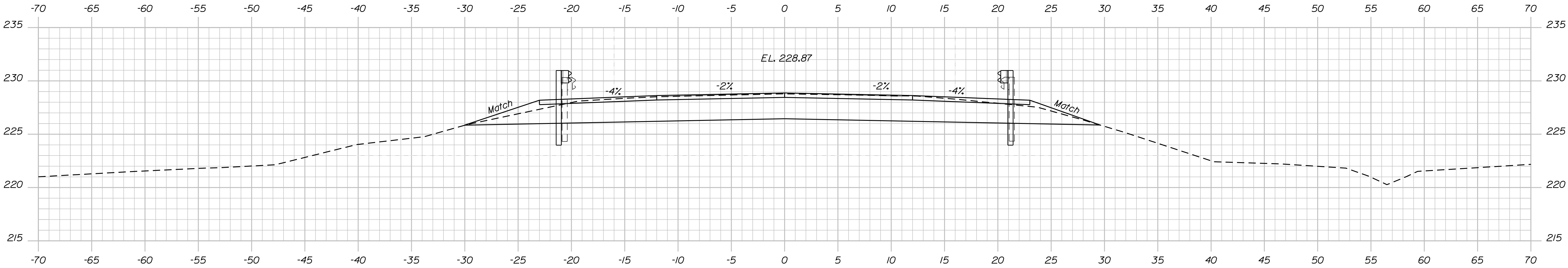
HIGGINS BRIDGE DOUGLAS BROOK GORHAM CUMBERLAND COUNTY					PROJ. MANAGER D. Eaton CHECKED-REVIEWED G.Gustafson DESIGN2-DETAILED2 DESIGN3-DETAILED3	DEVON EATON D. Eaton M.Critchlow	DATE JAN 2019	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
CROSS SECTIONS					REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	P.E. NUMBER DATE		23899.00 WIN 023899.00		
SHEET NUMBER					BRIDGE NO. 2370				BRIDGE PLANS	

Date:3/12/2019

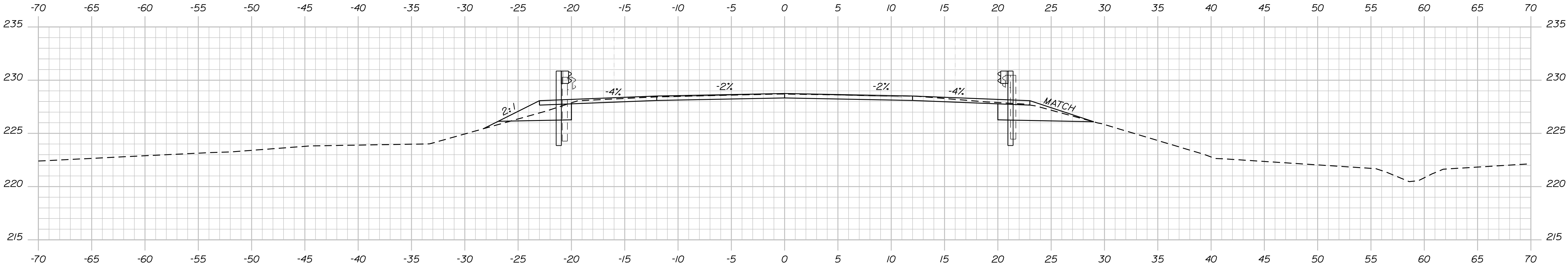
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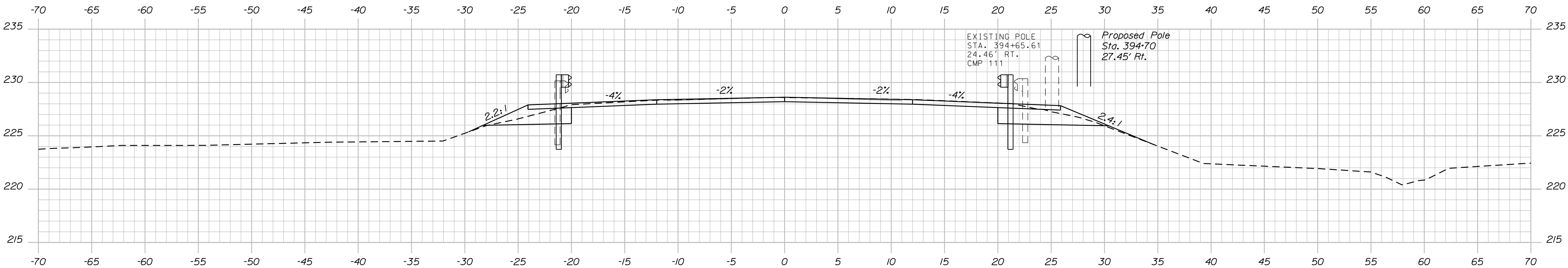


End Transition 395+25.00 Begin Full Depth Construction



End Mill & Overlay 395+00.00 Begin Transition

Sta. 394+90.37, 20' Rt. to Sta. 396+65.27, 20' Rt.
Install 175 L.F. W-Beam GR Mid-way Splice



Sta. 394+80.72, 20' Lt. to Sta. 396+55.83, 20' Lt.
Install 175 L.F. W-Beam GR Mid-way Splice

394+75.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	23899.00	
	WIN	023899.00
	BRIDGE NO. 2370	

PROJ. MANAGER	BY	DATE	SIGNATURE
CHECKED-REVIEWED	D. Eaton	JAN 2019	P.E. NUMBER
DESIGN-DETAILED	M. Critchlow		DATE
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HIGGINS BRIDGE DOUGLAS BROOK CUMBERLAND COUNTY	CROSS SECTIONS
GORHAM	

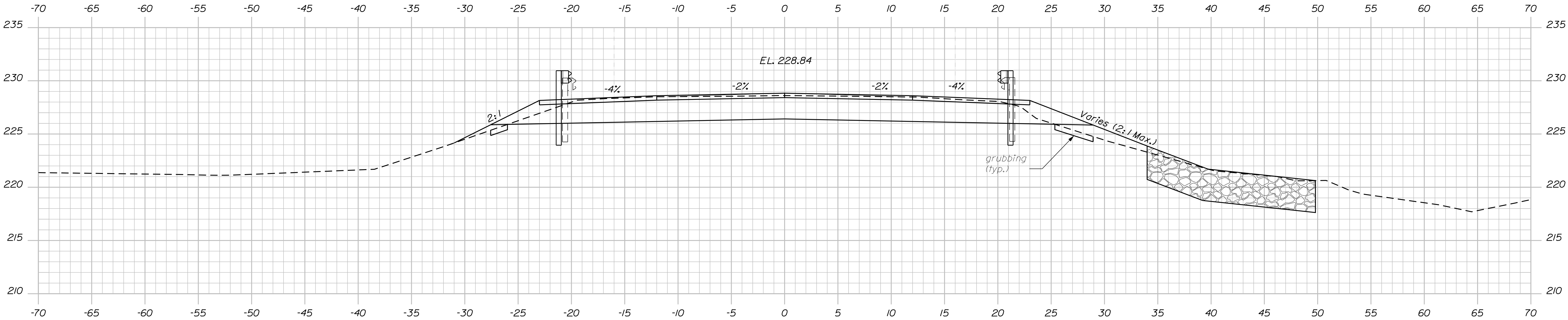
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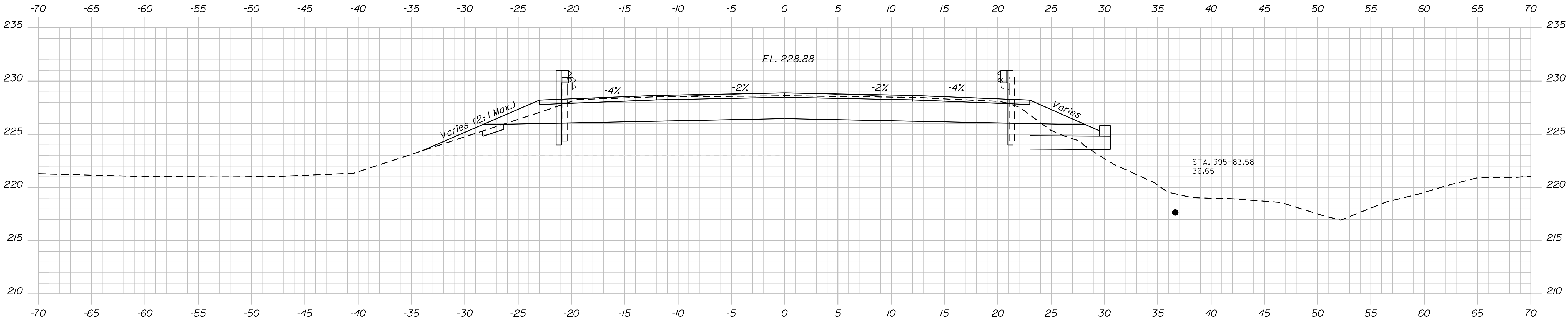
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Division: BRIDGE

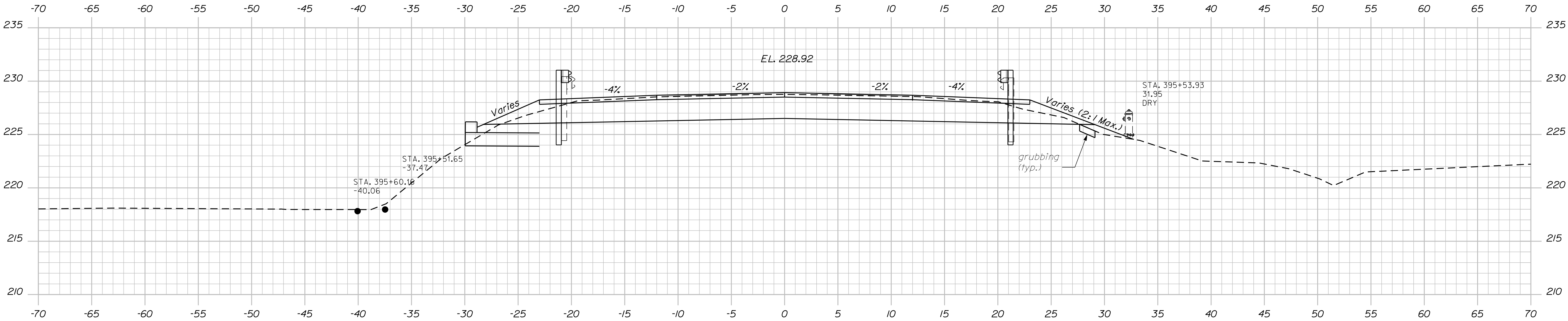
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396+00.00



395+87.50



395+50.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
	23899.00	
	WIN	023899.00
BRIDGE NO. 2370		
BRIDGE PLANS		

PROJ. MANAGER DEVON EATON	BY D. DAMREN	DATE JAN 2019	SIGNATURE
CHECKED-REVIEWED G. GUSTAFSON	M. CRITCHLOW		P.E. NUMBER
DESIGN-DETAILED			DATE
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

HIGGINS BRIDGE DOUGLAS BROOK CUMBERLAND COUNTY	GORHAM	CROSS SECTIONS

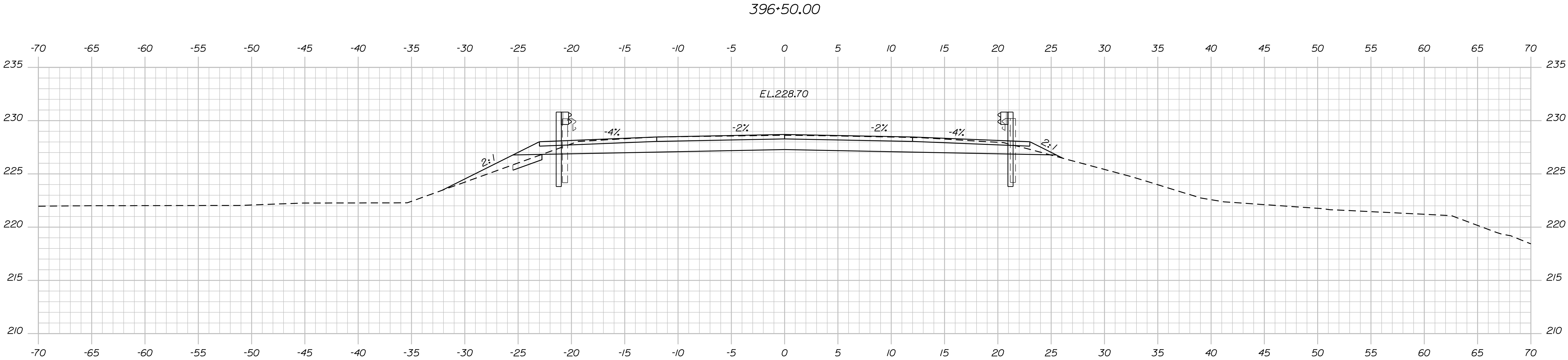
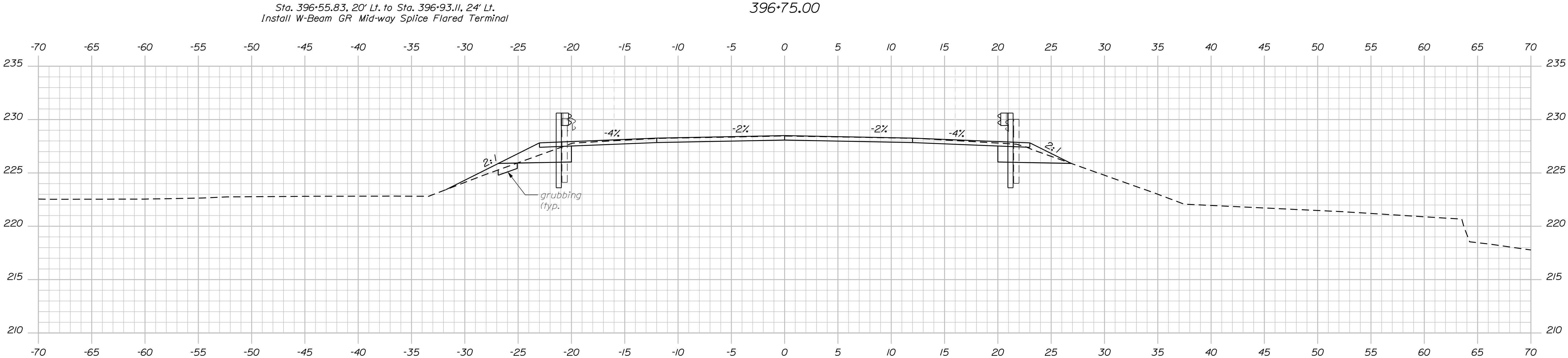
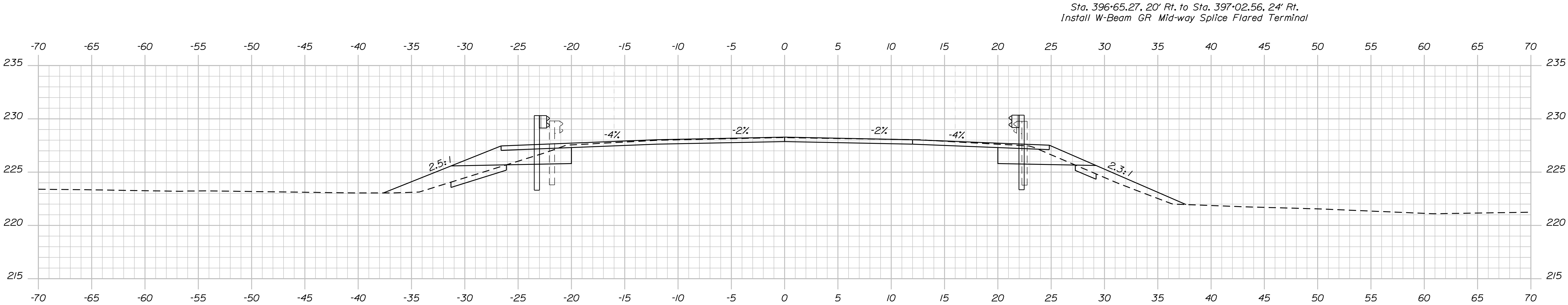
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OF 16	

Date:3/12/2019

Username: Devon.C.Eaton

Division: BRIDGE

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	23899.00		BRIDGE PLANS	
	WIN		023899.00	
	BRIDGE NO. 2370			

HIGGINS BRIDGE DOUGLAS BROOK CUMBERLAND COUNTY GORHAM	PROJ. MANAGER	DEVON EATON	DATE	
	CHECKED-REVIEWED	D. DORRAN G. GUSTAFSON	BY	SIGNATURE
	DESIGN-DETAILED			P.E. NUMBER
	REVISIONS 1			DATE
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

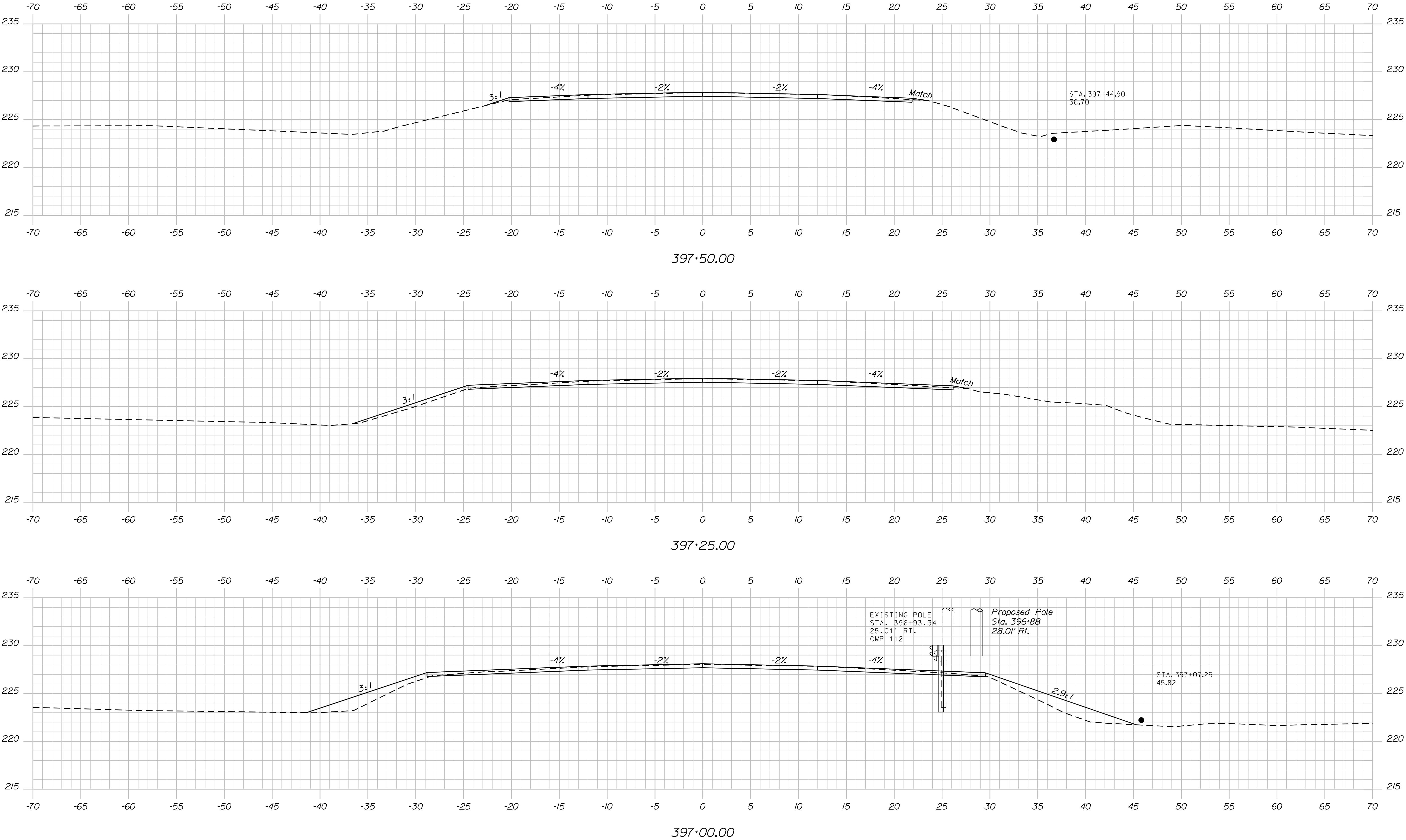
SHEET NUMBER
12
OF 16

Date:3/12/2019

Username: Devon.C.Eaton

Division: BRIDGE

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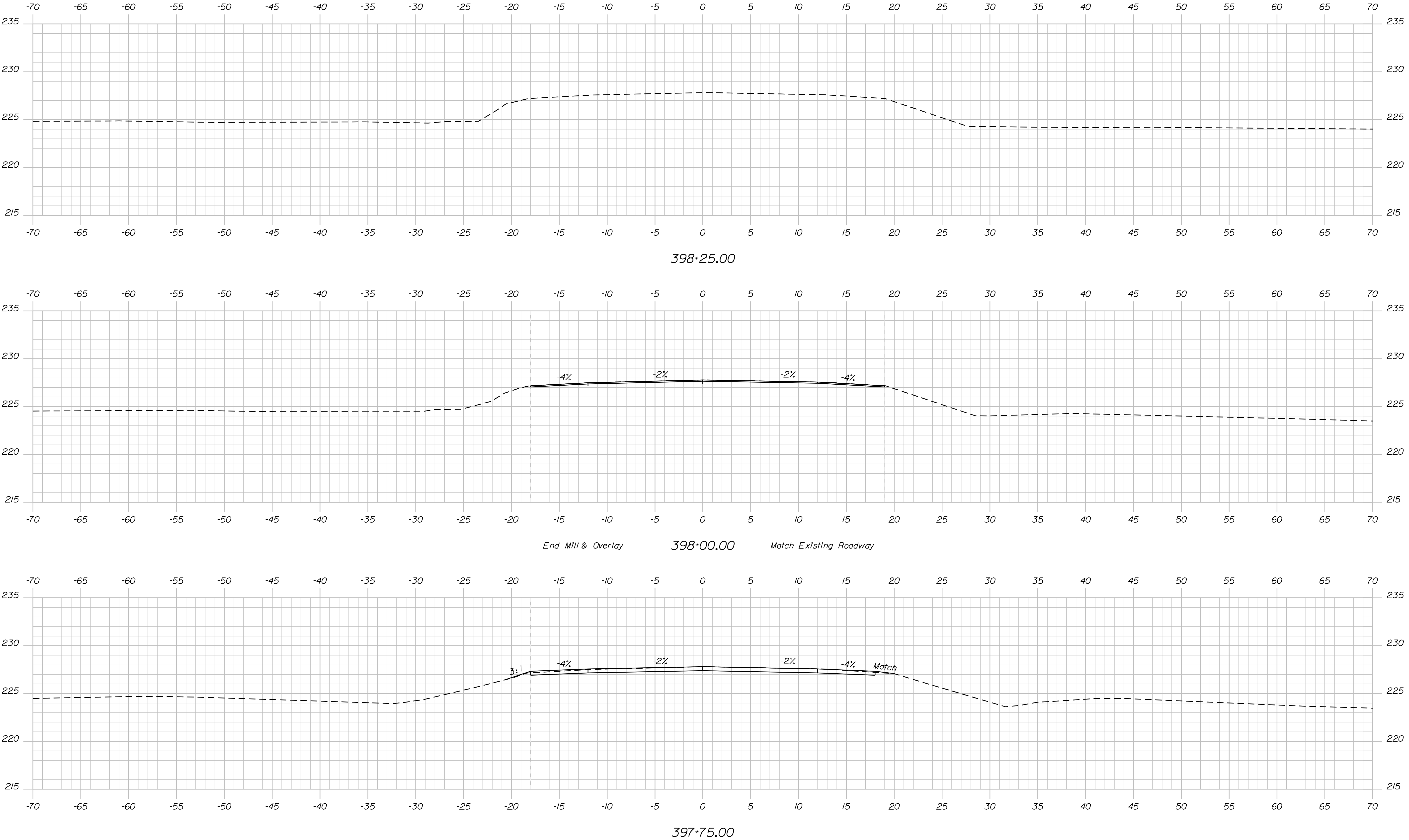


STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
HIGGINS BRIDGE		CUMBERLAND COUNTY	
DOUGLAS BROOK		CROSS SECTIONS	
GORHAM		SHEET NUMBER	
		23899.00	
		WIN	
		023899.00	
		BRIDGE NO. 2370	
		BRIDGE PLANS	
DATE		SIGNATURE	
BY		P.E. NUMBER	
PROJ. MANAGER		DATE	
DESIGN-DETAILED		JAN 2019	
CHECKED-REVIEWED		M.C. Cricklow	
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Date: 3/12/2019

Username: Devon.C.Eaton

Filename: ... \MSTAO14_Xsect_397+75_007.dgn Division: BRIDGE



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		SIGNATURE	
		P.E. NUMBER	
		DATE	
23899.00		WIN	
BRIDGE NO. 2370		023899.00	
BRIDGE PLANS			

HIGGINS BRIDGE DOUGLAS BROOK CUMBERLAND COUNTY		CROSS SECTIONS	
GORHAM			

SHEET NUMBER	
14	
OF 16	

Date: 3/12/2019

Username: Devon.C.Eaton

Division: BRIDGE

Filename: ... \00\ROW\MSTA\016_RWP\PLAN1.dgn

