STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

BYRON
OXFORD COUNTY
DUGWAY BRIDGE
OVER
BALDWIN BROOK
STATE ROUTE 17
FEDERAL AID PROJECT NO. 2355900
PROJECT LENGTH 0.083 mi.
BRIDGE NO. 2236

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Ninth Edition 2020.

DESIGN LOADING

Live Load .... HL - 93 Modified for Strength I

TRAFFIC DATA

Current (2019) AADT	420
Future (2039) AADT	460
DHV - % of AADT	17%
Design Hour Volume	78
Heavy Trucks (% of AADT)	12%
Heavy Trucks (% of DHV)	5%
Directional Distribution (% of DHV)	61%
18 kip Equivalent P 2.0	39
18 kip Equivalent P 2.5	37
Design Speed (mph)	45

HYDROLOGIC DATA

Drainage Area	1.6 sq mi
Design Discharge (Q50)	278 cfs
Check Discharge (Q100)	326 cfs
Headwater Elevation (Q1.1)	966.3 ft
Headwater Elevation (Q25)	967.7 ft
Headwater Elevation (Q50)	967.9 ft
Headwater Elevation (Q100)	968.2 ft
Discharge Velocity (Q1.1)	4.04 fps
Discharge Velocity (Q50)	8.27 fps
Discharge Velocity (Q100)	8.77 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

UTILITIES

Central Maine Power
Consolidated Communications of Northern New England

MAINTENANCE OF TRAFFIC

Maintain one lane of alternating one-way traffic using temporary stop signs and staged construction.

PROJECT LOCATION	Baldwin Brook 0.88 Miles North of Garland Pond Rd. Lat./Long. 44°44'9.09"N 70°39'34.10"W
PROGRAM AREA	Bridge
OUTLINE OF WORK	Large Culvert Replacement

WIN 23559.00

02355900

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED	DATE
COMMISSIONER:	4-15-21
CHIEF ENGINEER:	4-15-2021

STATE OF MAINE
MARK GRAY
No. 3997
LICENSED PROFESSIONAL ENGINEER

SIGNATURE
3997
P.E. NUMBER
4-9-2021
DATE

PROJECT INFORMATION

PROGRAM	BRIDGE
PROJECT MANAGER	M. WIGHT
DESIGNER	M. GRAY
CONSULTANT	N/A
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

BYRON
DUGWAY BRIDGE

TITLE SHEET

SHEET NUMBER
1
OF 26

Filename: \00\BRIDGE\MSTA\001_Title.dgn Division: BRIDGE Username: Richard.Moyer Date:4/8/2021

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.202	REMOVING PAVEMENT SURFACE	960	SY
203.20	COMMON EXCAVATION	870	CY
203.24	COMMON BORROW	20	CY
203.25	GRANULAR BORROW	610	CY
203.33	SPECIAL FILL	189	CY
206.061	STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	110	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	920	CY
403.208	HOT MIX ASPHALT 12.5 MM HMA SURFACE	135	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	208	T
409.15	BITUMINOUS TACK COAT - APPLIED	52	G
508.13	SHEET WATERPROOFING MEMBRANE (210 SY)	1	LS
511.07	COFFERDAM: UPSTREAM	1	LS
511.07	COFFERDAM: DOWNSTREAM	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES (43 SY)	1	LS
524.301	TEMPORARY STRUCTURAL SUPPORT	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE 1 (800 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	2	UN
534.71	PRECAST CONCRETE BOX CULVERT (288 SY)	1	LS
603.15	12 INCH CULVERT PIPE OPTION 1	40	LF
606.1301	31" W-BM GR, MID-WAY SPLICE-SGL FACED	303	LF
606.1303	31" W-BM GR, MID-WAY SPLICE-15' RAD AND LESS	75	LF
606.1305	31" W-BM GR, MID-WAY SPLICE FLARED TERMINAL	1	EA
606.1306	31" W-BM GR, MID-WAY SPLICE TANGENT TERMINAL	1	EA
606.1308	BURIED-IN-SLOPE GUARDRAIL END, MID-WAY SPLICE	1	EA
606.265	TERMINAL END - SINGLE RAIL - GALVANIZED STEEL	3	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	12	EA
610.08	PLAIN RIPRAP	28	CY
610.16	HEAVY RIPRAP	452	CY
610.210	STREAM CHANNEL ROCK	143	CY
610.212	STREAMBED ROCK FEATURES	30	CY
613.319	EROSION CONTROL BLANKET	159	SY
615.07	LOAM	47	CY
618.14	SEEDING METHOD NUMBER 2	8	UN
619.12	MULCH	8	UN
619.14	EROSION CONTROL MIX	109	CY
620.58	EROSION CONTROL GEOTEXTILE	597	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1200	LF
627.77	REMOVING PAVEMENT MARKINGS	534	SF
627.78	TEMPORARY 4 INCH PAINTED PAVEMENT MARKING LINE, WHITE OR YELLOW	1600	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.11	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	400	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	360	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	2	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

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. Minimize clearing on the East side of the road riverbank.

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

4. Stones which cannot be rolled or compacted into the surface of the shoulder shall be removed by hand raking. Payment for hand raking will be considered incidental to Item No. 304.10, Aggregate Subbase Course - Gravel.

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

6. 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.

7. Place a 24-in. wide strip of Temporary Erosion Control Blanket on the sideslopes along the top of the bank at the outside edge of the shoulder.

8. Protective Coating for Concrete Surfaces shall be applied to the following areas:

   On all concrete headwalls and box wall surfaces that are exposed and to limit lines, one foot beyond intersections of concrete surfaces with the ground.

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

10. 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. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

11. The hydrology and hydraulic reports 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.

12. The project geotechnical report titled: GEOTECHNICAL DESIGN REPORT For the Replacement of DUGWAY BRIDGE, STATE ROUTE 17 OVER BALDWIN BROOK, BYRON, MAINE, Soils Report 2020-40, October 26, 2020 may be accessed at the MaineDOT web address.

13. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or Contractor's interpretations of, or conclusions drawn from, the geotechnical information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between the boring locations.

14. 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.

15. The Contractor shall submit a Staged Construction Plan to the Resident at least 10 business days prior to the start of excavation or demolition work. The plan shall outline the geometry, materials and construction elements proposed to provide one-way passage for traffic. No work related to the removal of the bridge or closing of a lane shall be undertaken by the Contractor until MaineDOT has reviewed the Staged Construction Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting and finalizing the Plan will be considered incidental to other pay items.

16. Bidders and contractors should anticipate encountering boulders and cobbles in the excavations for the proposed box culvert.

17. Any existing cobbles or boulders greater than 12" in diameter protruding into the 12" thick bedding layer under the box shall be removed and backfilled with compacted granular borrow.

18. All embankment materials except as otherwise shown, shall meet the requirements of Subsection 703.19, Granular Borrow, Material for Underwater Backfill.

19. Removing and resetting the bollard at station 6+71.9± , 42.2± feet left shall not be paid for directly. Payment shall be considered incidental to related contract items.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS	R. MYERS	MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

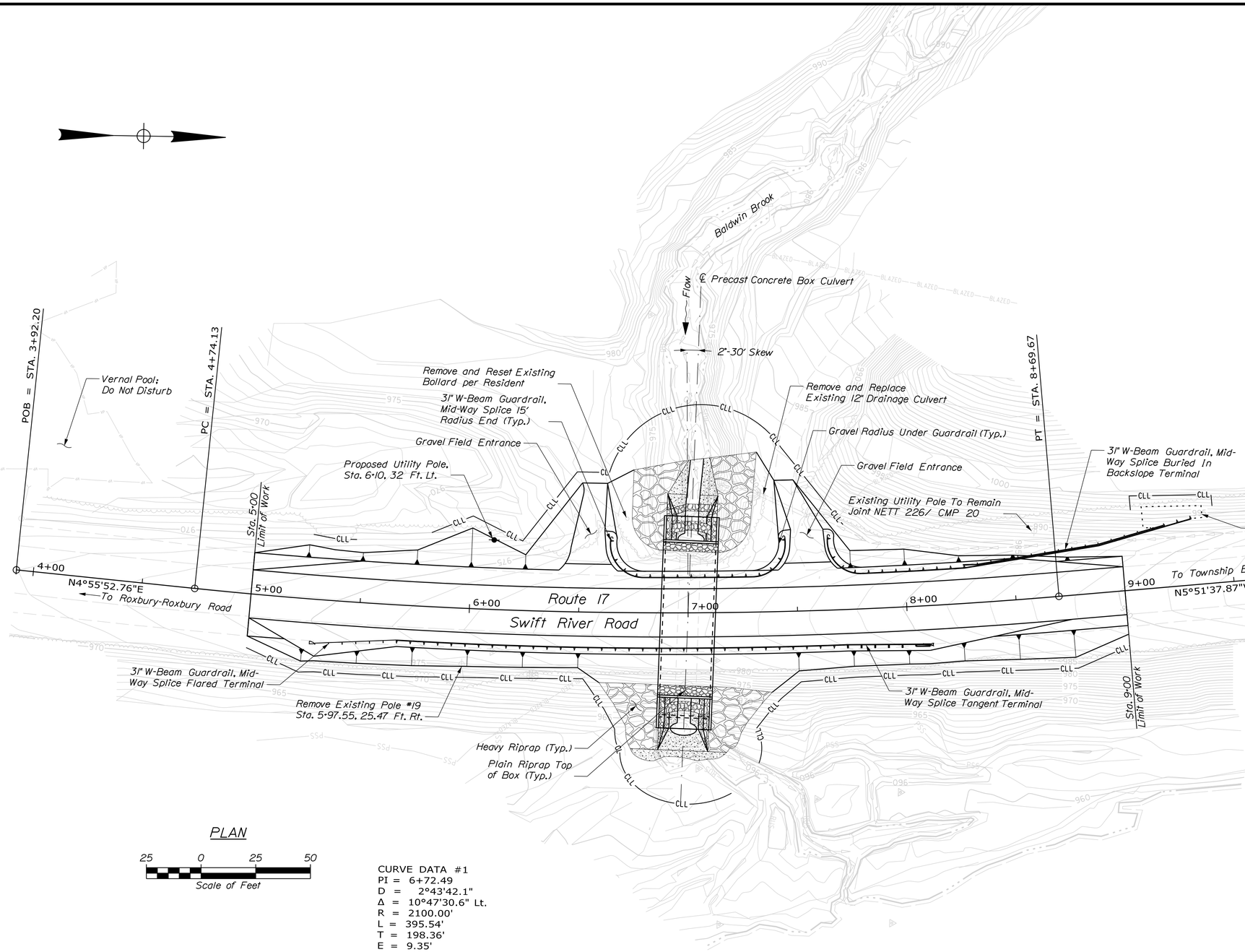
DUGWAY BRIDGE
BALDWIN BROOK
BYRON OXFORD COUNTY

ESTIMATED QUANTITIES &
GENERAL CONSTRUCTION NOTES

SHEET NUMBER

2

OF 26



PLAN

25 0 25 50

Scale of Feet

CURVE DATA #1
PI = 6+72.49
D = 2°43'42.1"
Δ = 10°47'30.6" Lt.
R = 2100.00'
L = 395.54'
T = 198.36'
E = 9.35'

NOTE:

Minimize clearing on east side of roadway riverbank. Protect existing riverbank vegetation where possible.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

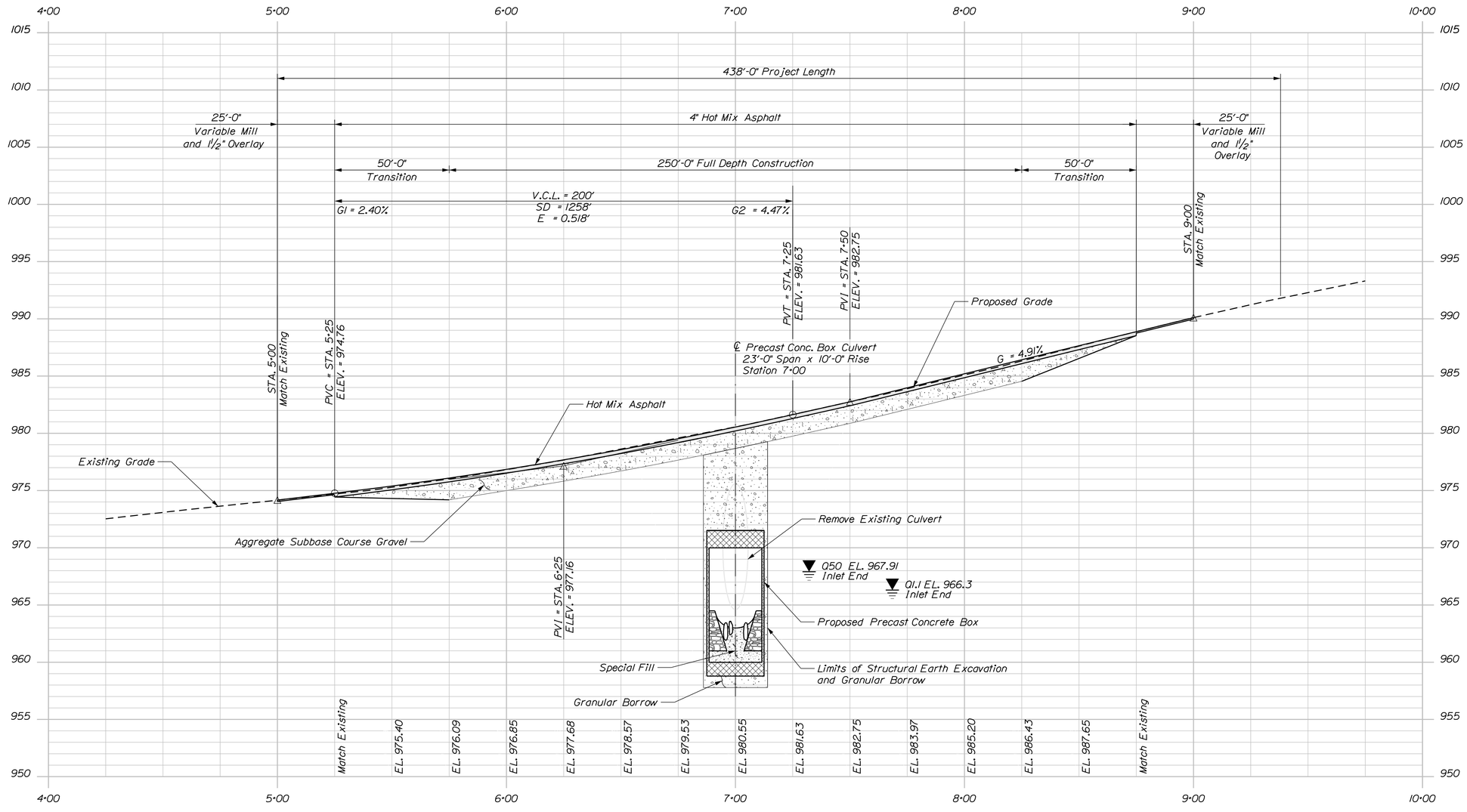
GENERAL PLAN

SHEET NUMBER

3

OF 26

Filename: ...\00\BRIDGE\MSTA\003_Plan.dgn Division: BRIDGE Username: Richard.Moyer Date:4/8/2021



PROFILE

Username: Richard.Moyer Date:4/8/2021

Division: BRIDGE

Filename: ...\00\BRIDGE\MSTA\004_Profile.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

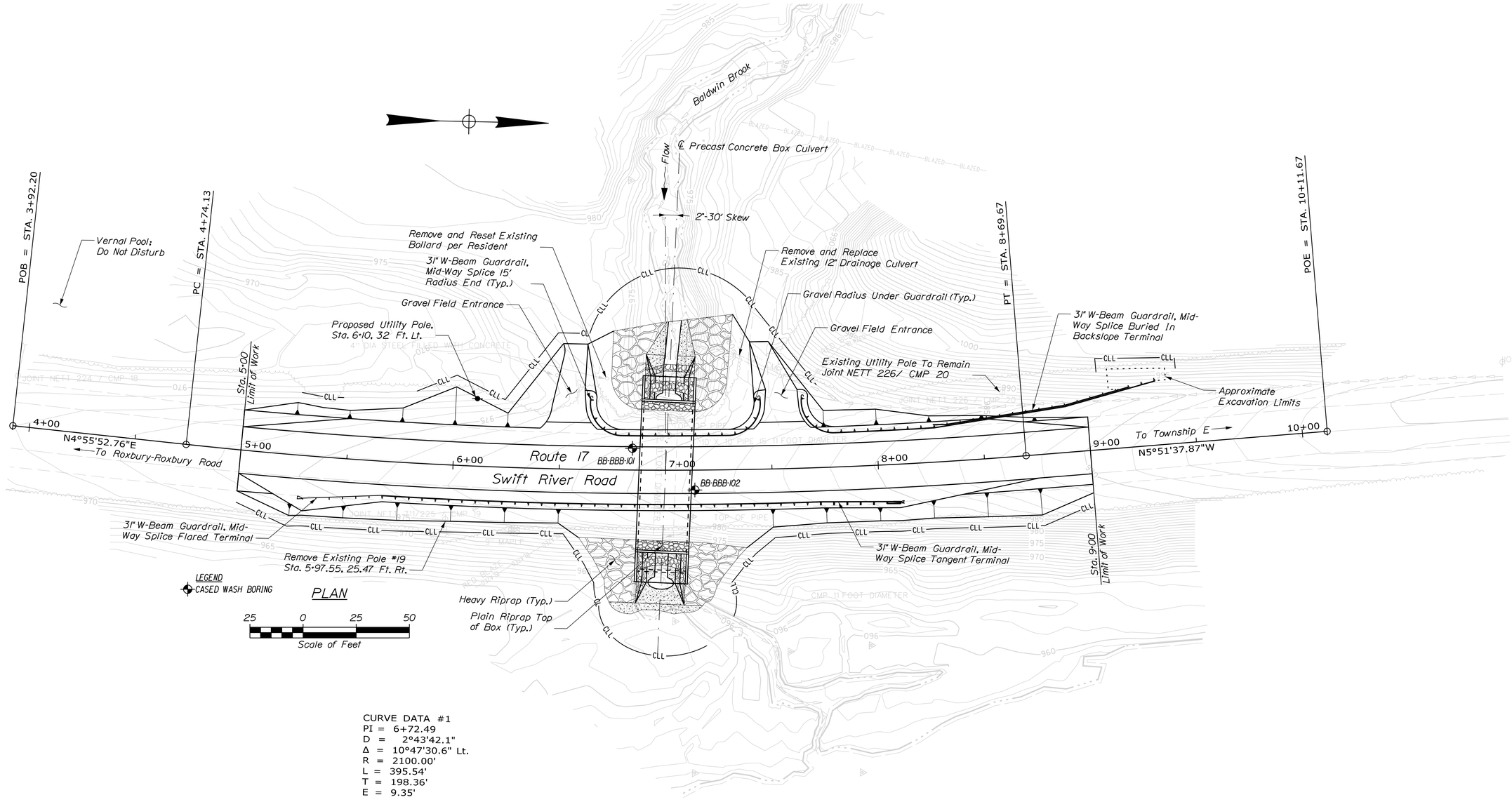
DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

PROFILE

SHEET NUMBER

4

OF 26



CURVE DATA #1
PI = 6+72.49
D = 2°43'42.1"
Δ = 10°47'30.6" Lt.
R = 2100.00'
L = 395.54'
T = 198.36'
E = 9.35'

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2355900

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

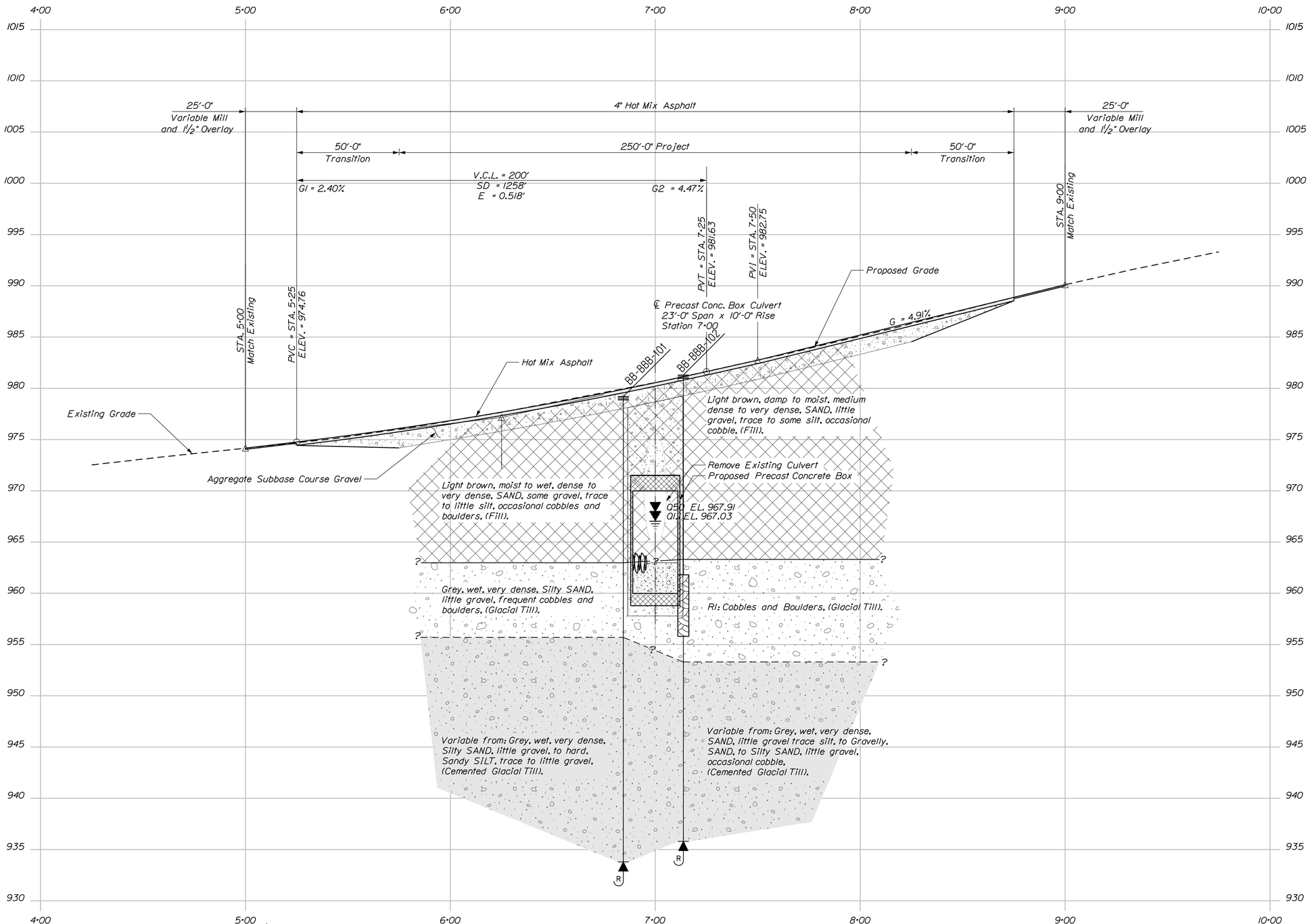
	BY	DATE	SIGNATURE
PROJ. MANAGER			
DESIGN-DETAILED	T. WHITE	SEP 2020	
CHECKED-REVIEWED	J.MANAHAN		P.E. NUMBER
DESIGN2-DETAILED2	J.MANAHAN		
DESIGN3-DETAILED3			
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

BORING LOCATION PLAN

SHEET NUMBER
5
OF 26

Filename: ...\00\GEOTECH\MSTA\005_BLP1.dgn Division: BRIDGE Username: Richard.Moyer Date:4/8/2021



LEGEND

Boring No.
Offset, if shown
Weathered Bedrock, if applicable
Pavement Thickness, if applicable
Approximate Top of Bedrock
RQD= Rock Quality Designation of Bedrock Core Sample
BOE= Bottom of Exploration
No Refusal
NR
Refusal
R

PROFILE

HORIZ 25 0 25 50
VERT 5 0 5 10
SCALE

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.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2355900

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

	BY	DATE
PROJ. MANAGER	----------	----------
DESIGN-DETAILED	----------	----------
CHECKED-REVIEWED	----------	----------
DESIGN2-DETAILED2	J.MANAHAN	T. WHITE
DESIGN3-DETAILED3	----------	----------
REVISIONS 1	----------	----------
REVISIONS 2	----------	----------
REVISIONS 3	----------	----------
REVISIONS 4	----------	----------
FIELD CHANGES	----------	----------

SIGNATURE

OCT 2020

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

INTERPRETIVE SUBSURFACE PROFILE

SHEET NUMBER

6

OF 26

Filename: ...\00\GEOTECH\MSTA\006_ISP1.dgn Division: BRIDGE Username: Richard.Moyer Date:4/8/2021

Username: Richard.Moyer Date:4/8/2021

Filename: ...\MSTA\007_BORING LOGS1.dgn Division: BRIDGE

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Dugway Bridge #2236 carries Route 17 over Baldwin Brook
Location: Byron, Maine

Boring No.: BB-BBB-101
WIN: 23559.00

Driller:	MaineDOT	Elevation (ft.): 979.2	Auger ID/OD: 5" Solid Stem
Operator:	Daggett/Niles	Datum: NAVD88	Sampler: Standard Split Spoon
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: 140#/30"
Date Start/Finish:	3/28/20191 08:30-15:00	Drilling Method: Cased Wash Boring	Core Barrel: N/A
Boring Location:	6+84.4, 10.2 ft Lt.	Casing ID/OD: HW & NW	Water Level*: None Observed
Hammer Efficiency Factor: 0.928		Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Cathead ☐	

Definitions:
D = Split Spoon Sample
ND = Unsuccessful Split Spoon Sample Attempt
U = Thin Wall Tube Sample
WU = Unsuccessful Thin Wall Tube Sample Attempt
V = Field Vane Shear Test. PP = Pocket Penetrometer WOR/C = Weight of Rods or Casing
WH = Weight of One Person
R = Rock Core Sample
SSA = Solid Stem Auger
HSA = Hollow Stem Auger
RC = Roller Cone
WOH = Weight of 140lb. Hammer
S_u = Peak/Remolded Field Vane Undrained Shear Strength (psf) $S_{u(lab)}$ = Lab Vane Undrained Shear Strength (psf)
q_p = Unconfined Compressive Strength (ksf)
N-uncorrected = Raw Field SPT N-value
Hammer Efficiency Factor = Rig Specific Annual Calibration Value
N_{60} = SPT N-uncorrected Corrected for Hammer Efficiency
N_{60} = Hammer Efficiency Factor/60%*N-uncorrected
T_v = Pocket Torvane Shear Strength (psf)
WC = Water Content, percent
LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows /6 in. Sheer Strength (psf) OR RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							SSA	978.8		4" HMA. 0.3	
5	10	24/24	5.00 - 7.00	18/35/40/44	75	116				Light brown, moist, very dense, SAND, some gravel, trace silt, occasional cobble. (Fill).	
10	20	24/17	10.00 - 12.00	12/15/16/15	31	48				Light brown, moist, dense, fine to coarse SAND, some gravel, little silt. (Fill).	GM337126 A-2-4, SM WC=6.6%
15	30	9.6/7	15.50 - 16.30	29/60|3.6")	---		OPEN			Set in HW Casing at 14.0 ft bgs. Boulder from 14.0-15.2 ft bgs. Roller Coned ahead to 15.2 ft bgs.	
								962.9		Brown, wet, very dense, fine to coarse SAND, some gravel, trace silt. (Fill). 16.3	GM337127 A-1-b, SW-SM WC=18.1%
										Cobble from 16.3-17.2 ft bgs. Roller Coned ahead to 20.0 ft bgs.	
20	40	21.6/18	20.00 - 21.80	5/5/35/50|3.6")	40	62				Grey, wet, very dense, Silty SAND, little gravel. (Glacial Till - Boulder and Cobble layer). Boulder from 21.0-22.4 ft bgs.	
								955.7		Cobble from 22.9-23.3 ft bgs. 23.5	
25	50	18/15	25.00 - 26.50	6/35/60	95	147				Grey, wet, very dense, Silty SAND, little gravel. (Cemented Glacial Till). Set in NW Casing at 25.0 ft bgs.	
30	60	18/17	30.00 - 31.50	28/43/54	97	150				Similar to above.	
35	70	12/12	35.00 - 36.00	33/50	---					Grey, wet, hard, fine sandy SILT, little gravel. (Cemented Glacial Till).	GM337128 A-4, SM WC=9.4%
40	80	18/18	40.00 - 41.50	19/29/50	79	122				Similar to above.	
45	90	4.8/0	45.00 - 45.40	50|4.8")	---			933.8		Bottom of Exploration at 45.4 feet below ground surface. Spoon REFUSAL 45.4	
50											

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.: BB-BBB-101

Maine Department of Transportation

Soil/Rock Exploration Log
US CUSTOMARY UNITS

Project: Dugway Bridge #2236 carries Route 17 over Baldwin Brook
Location: Byron, Maine

Boring No.: BB-BBB-102
WIN: 23559.00

Driller:	MaineDOT	Elevation (ft.): 981.3	Auger ID/OD: 5" Solid Stem
Operator:	Daggett/Niles	Datum: NAVD88	Sampler: Standard Split Spoon
Logged By:	B. Wilder	Rig Type: CME 45C	Hammer Wt./Fall: 140#/30"
Date Start/Finish:	3/27/20191 08:30-15:00	Drilling Method: Cased Wash Boring	Core Barrel: NQ-2"
Boring Location:	7+13.7, 9.3 ft Rt.	Casing ID/OD: NW	Water Level*: None Observed
Hammer Efficiency Factor: 0.928		Hammer Type: Automatic ☒ Hydraulic ☐ Rope & Cathead ☐	

Definitions:
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U = Thin Wall Tube Sample
WU = Unsuccessful Thin Wall Tube Sample Attempt
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q_p = Unconfined Compressive Strength (ksf)
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LL = Liquid Limit
PL = Plastic Limit
PI = Plasticity Index
G = Grain Size Analysis
C = Consolidation Test

Depth (ft.)	Sample No.	Pen./Rec. (in.)	Sample Depth (ft.)	Blows /6 in. Sheer Strength (psf) OR RQD (%)	N-uncorrected	N_{60}	Casing Blows	Elevation (ft.)	Graphic Log	Visual Description and Remarks	Laboratory Testing Results/ AASHTO and Unified Class
0							SSA	981.0		4" HMA. 0.3	
5	10	24/19	5.00 - 7.00	14/30/30/15	60	93				Light brown, damp, very dense, fine to coarse SAND, some silt, little gravel, occasional cobble (Fill).	GM337129 A-2-4, SM WC=6.8%
10	20	24/18	10.50 - 12.50	7/9/21/18	30	46				Cobble from 10.0-10.5 ft bgs. Light brown, moist, dense, fine to coarse SAND, little gravel, trace silt, occasional cobble. (Fill).	
15	30	24/8	15.00 - 17.00	4/5/13/13	18	28	16				
							22				
							17	963.3		18.0	
							113			Similar to above except medium dense. (Fill).	
20	R1	72/50	19.50 - 25.50				028 OPEN			028 blows for 0.1 ft. Boulder from 19.1-20.5 ft bgs. R1: Cobbles and Boulder. (Glacial Till - Cobble and Boulder Layer). R1: Core Times (min:sec) 19.5-20.5 ft (3:00) 20.5-21.5 ft (1:00) 21.5-22.5 ft (0:45) 22.5-23.5 ft (1:21) 23.5-24.5 ft (1:04) 24.5-25.5 ft (0:50)	
25											
								953.3		28.0	
30	40	8.4/8.4	30.00 - 30.70	46/50|2.4")	---					Grey, wet, very dense, Silty fine to coarse SAND, little gravel, occasional cobble. (Cemented Glacial Till).	
35	50	18/16	35.00 - 36.50	38/42/53	95	147				Grey, wet, very dense, fine to coarse SAND, some gravel, trace silt, (Cemented Glacial Till).	GM337130 A-1-b, SW WC=13.9%
40	60	12/9	40.00 - 41.00	37/75	---					Grey, moist, very dense, Gravelly, fine to coarse SAND, occasional cobble, (Cemented Glacial Till).	
45	70	6/6	45.00 - 45.50	70	---			935.8		Similar to above. 45.5 Bottom of Exploration at 45.5 feet below ground surface. Spoon REFUSAL	
50											

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.: BB-BBB-102

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

2355900

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

		BY	DATE
PROJ. MANAGER	----------	----------	----------
DESIGN-DETAILED	----------	----------	----------
CHECKED-REVIEWED	----------	----------	----------
DESIGN2-DETAILED2	J.MANAHAN	T.WHITE	NOV 2020
DESIGN3-DETAILED3	----------	----------	----------
REVISIONS 1	----------	----------	----------
REVISIONS 2	----------	----------	----------
REVISIONS 3	----------	----------	----------
REVISIONS 4	----------	----------	----------
FIELD CHANGES	----------	----------	----------

SIGNATURE

P.E. NUMBER

DATE

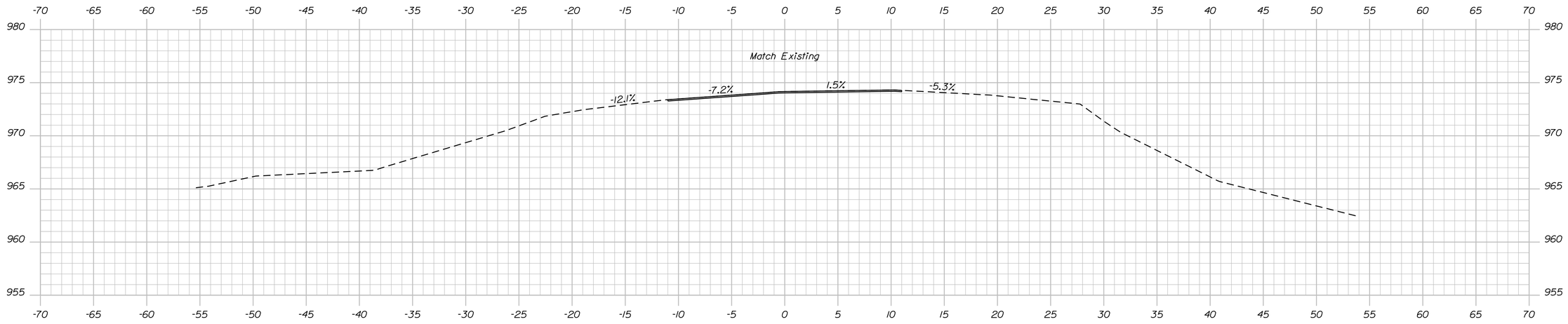
DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

BORING LOGS

SHEET NUMBER

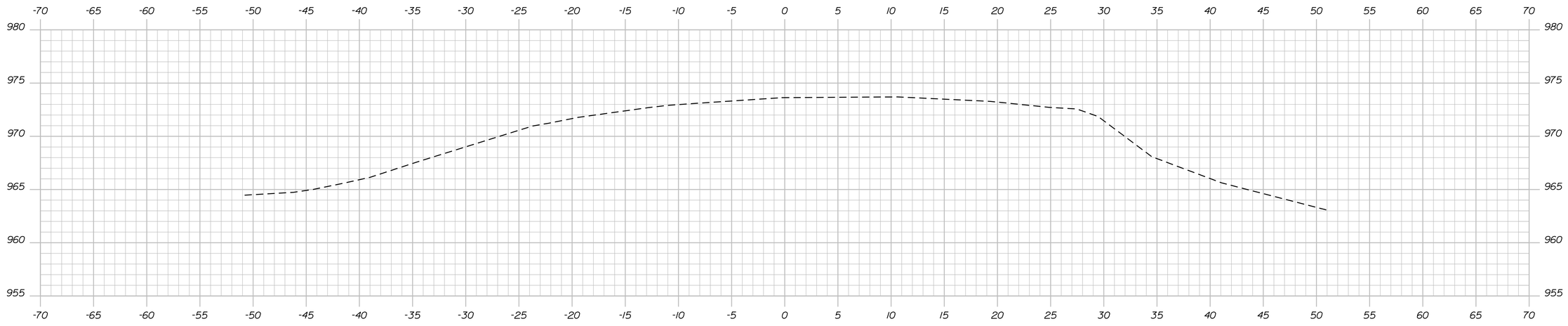
7

OF 26

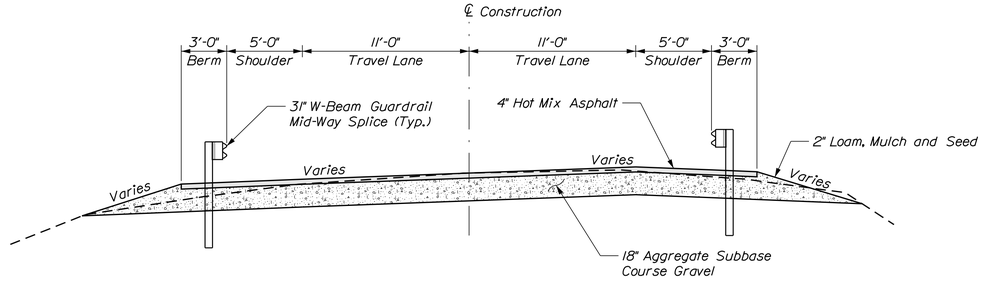


5+00.00

Begin Variable Mill and Overlay 1.5" Thick



4+75.00



TYPICAL APPROACH SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
BYRON OXFORD COUNTY

CROSS SECTIONS

SHEET NUMBER

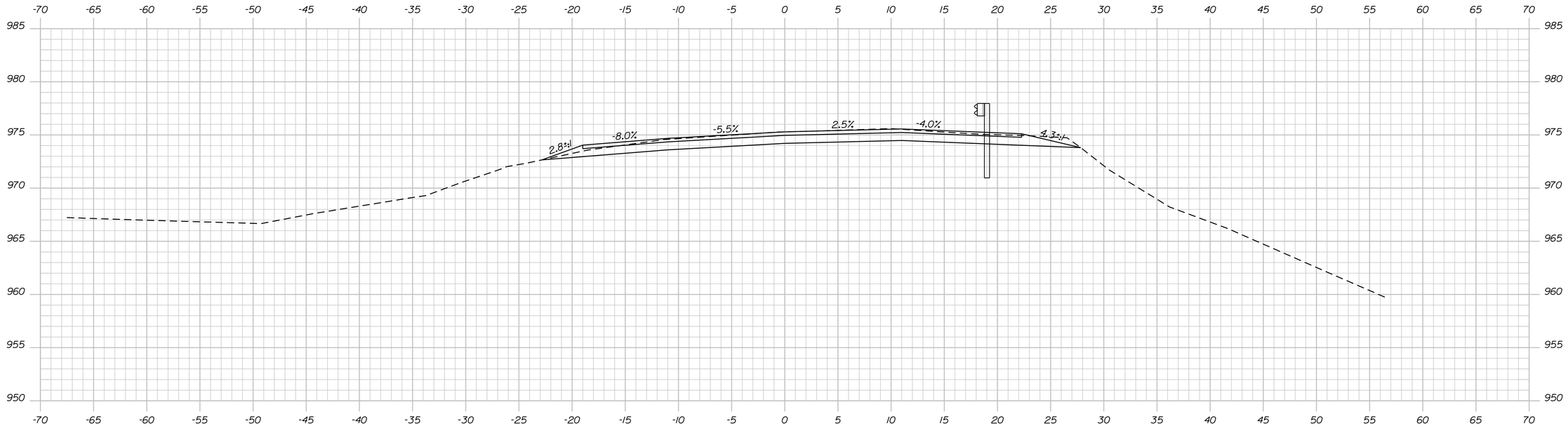
8

OF 26

Sta. 4+50.00 to Sta. 5+00.00

Username: Richard.Moyer Date:4/8/2021

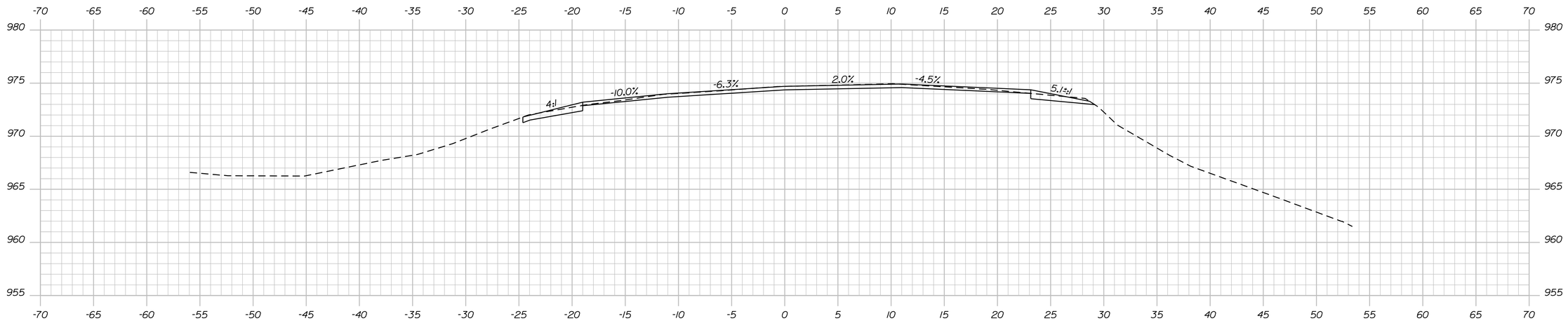
Filename: ...\MSTA\008_XSECT_4+50_001.dgn Division: BRIDGE



5+50.00

Sta. 5+30.1±, 20.0± Ft. Rt. to Sta. 5+67.7±, 16.0 Ft. Rt.
Install 31" W-Beam Guardrail; Mid-Way Splice Flared Terminal

Sta. 5+67.7±, 16.0± Ft. Rt. to Sta. 7+72.5±, 16.0 Ft. Rt.
Install 206.25 LF of 31" W-Beam Guardrail; Mid-Way Splice



5+25.00
End Variable Mill and Overlay 1.5" Thick
Begin Transition

Sta. 5+25.00 to Sta. 5+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS	R. MAYER	MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
BYRON OXFORD COUNTY

CROSS SECTIONS

SHEET NUMBER

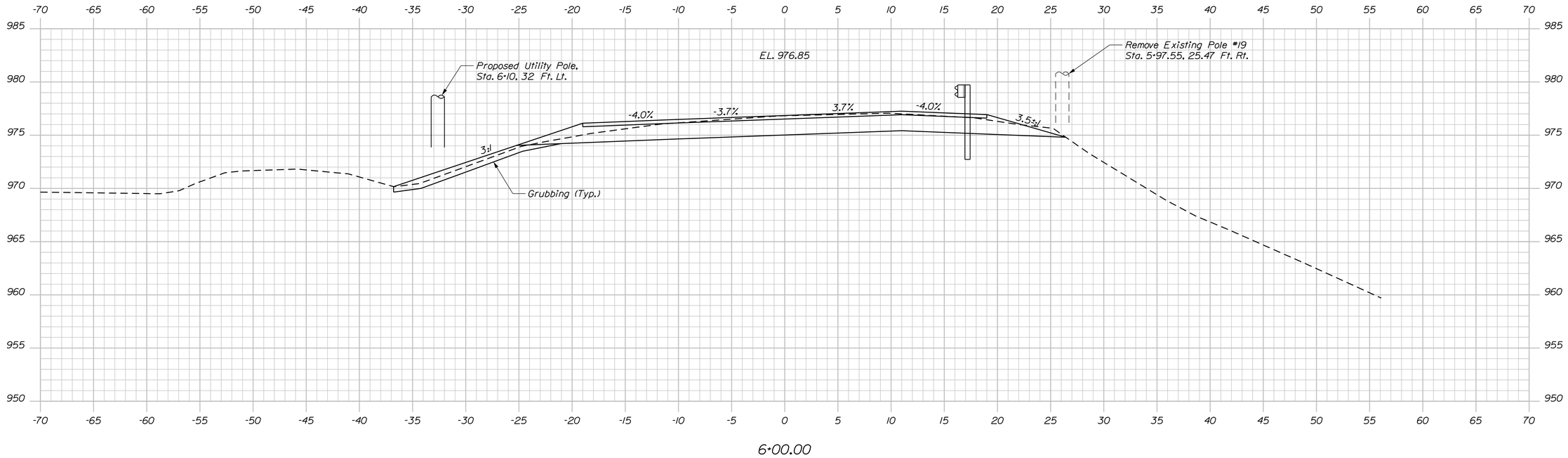
9

OF 26

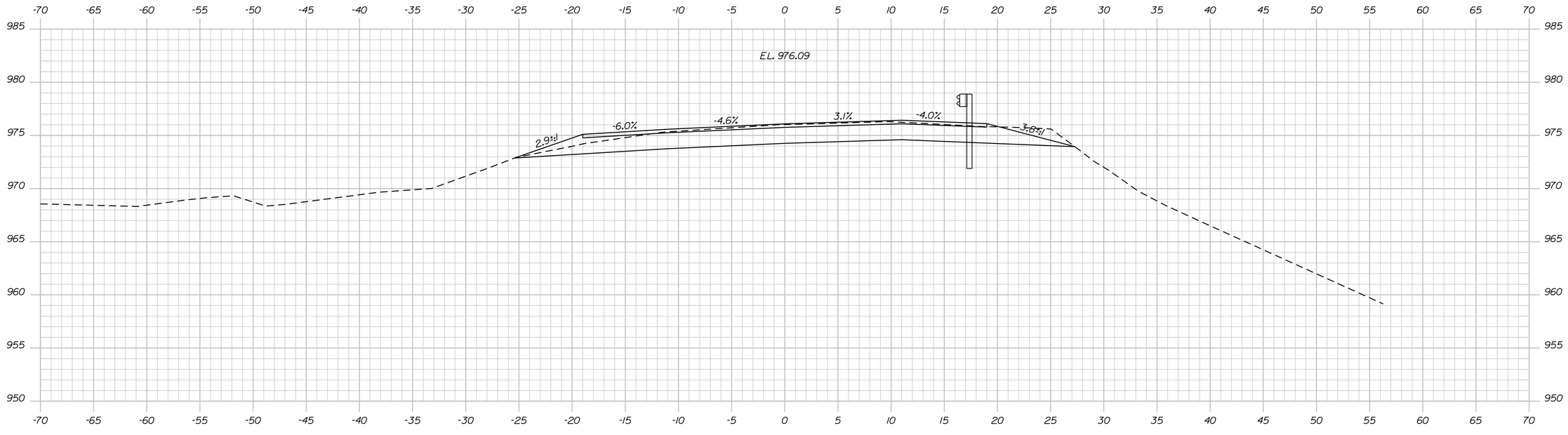
Username: Richard.Mayer Date:4/8/2021

Division: BRIDGE

Filename: ...\MSTA\009_XSECT_5+25_002.dgn



6+00.00



5+75.00

End Transition/Begin Full-Depth Construction

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS	MAR 2021	SIGNATURE
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			P.E. NUMBER
REVISIONS 1			DATE
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

CROSS SECTIONS

SHEET NUMBER

10

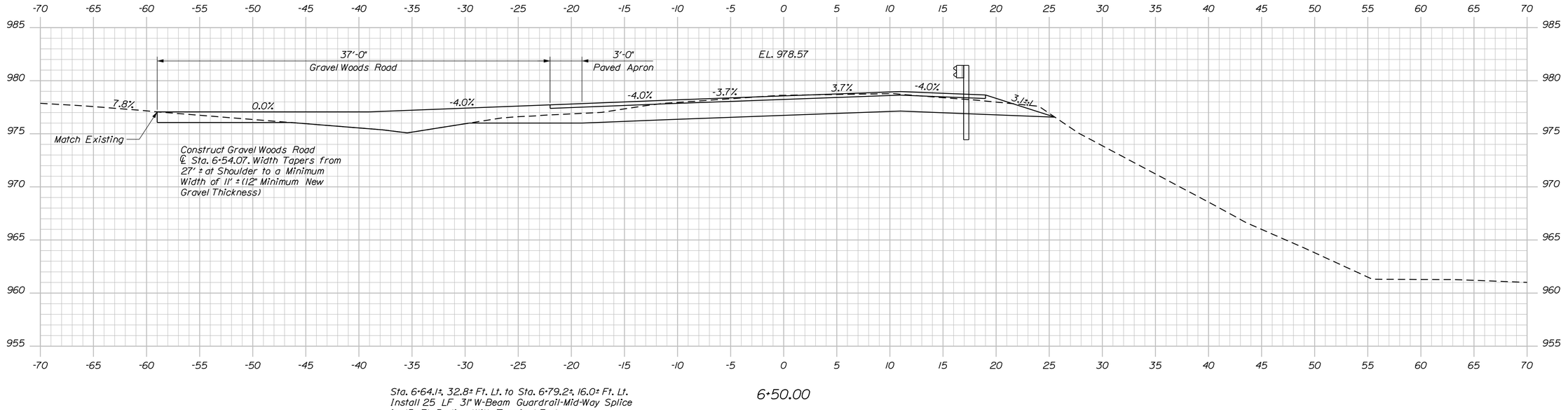
OF 26

Sta. 5+75.00 to Sta. 6+00.00

Username: Richard.Moyer Date:4/8/2021

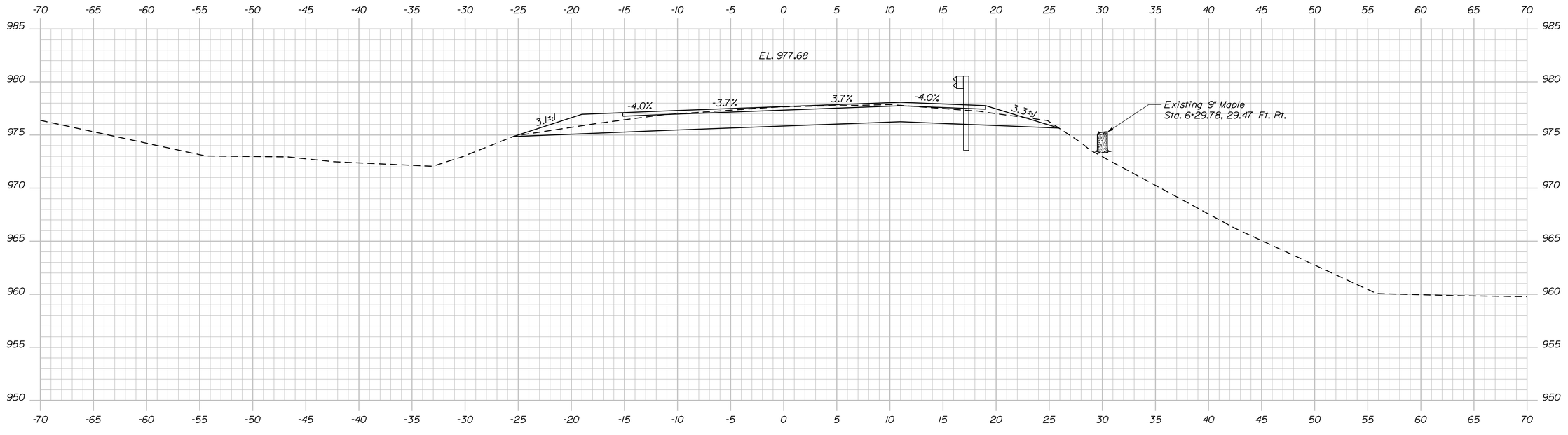
Division: BRIDGE

Filename: ...\MSTA\010_XSECT_5+75_003.dgn



Sta. 6+64.1±, 32.8± Ft. Lt. to Sta. 6+79.2±, 16.0± Ft. Lt.
Install 25 LF 31" W-Beam Guardrail-Mid-Way Splice
in 15 Ft. Radius With Terminal End

6+50.00



6+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		
DESIGN-DETAILED	M. GRAY	BY	DATE
CHECKED-REVIEWED	R. MYERS	R. MAYER	APR 2019
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	MAR 2021
DESIGN3-DETAILED3			APR 2019
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
BYRON OXFORD COUNTY

CROSS SECTIONS

SHEET NUMBER

11

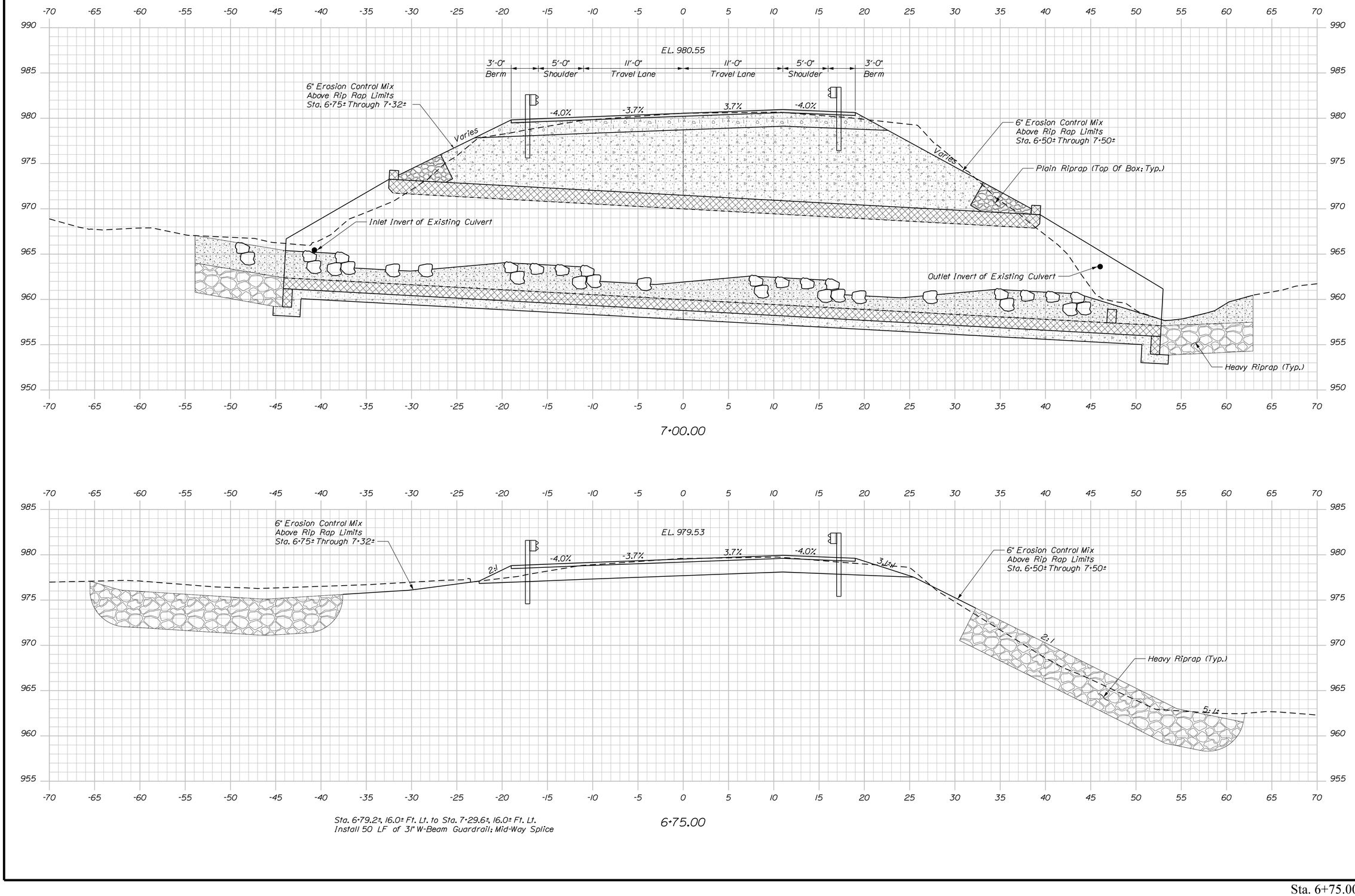
OF 26

Sta. 6+25.00 to Sta. 6+50.00

Username: Richard.Moyer Date:4/8/2021

Division: BRIDGE

Filename: ...\MSTA\011_XSECT_6+25_004.dgn



Sta. 6+79.2±, 16.0± Ft. Lt. to Sta. 7+29.6±, 16.0± Ft. Lt.
Install 50 LF of 31" W-Beam Guardrail; Mid-Way Splice

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE PLANS

BRIDGE NO. 2236

PROJ. MANAGER	M. WIGHT	DATE	
DESIGN-DETAILED	M. GRAY	BY	R. MAYER
CHECKED-REVIEWED	R. MYERS	DATE	APR 2019
DESIGN2-DETAILED2	J. MANAHAN	BY	T. WHITE
DESIGN3-DETAILED3		DATE	APR 2019
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
BYRON OXFORD COUNTY

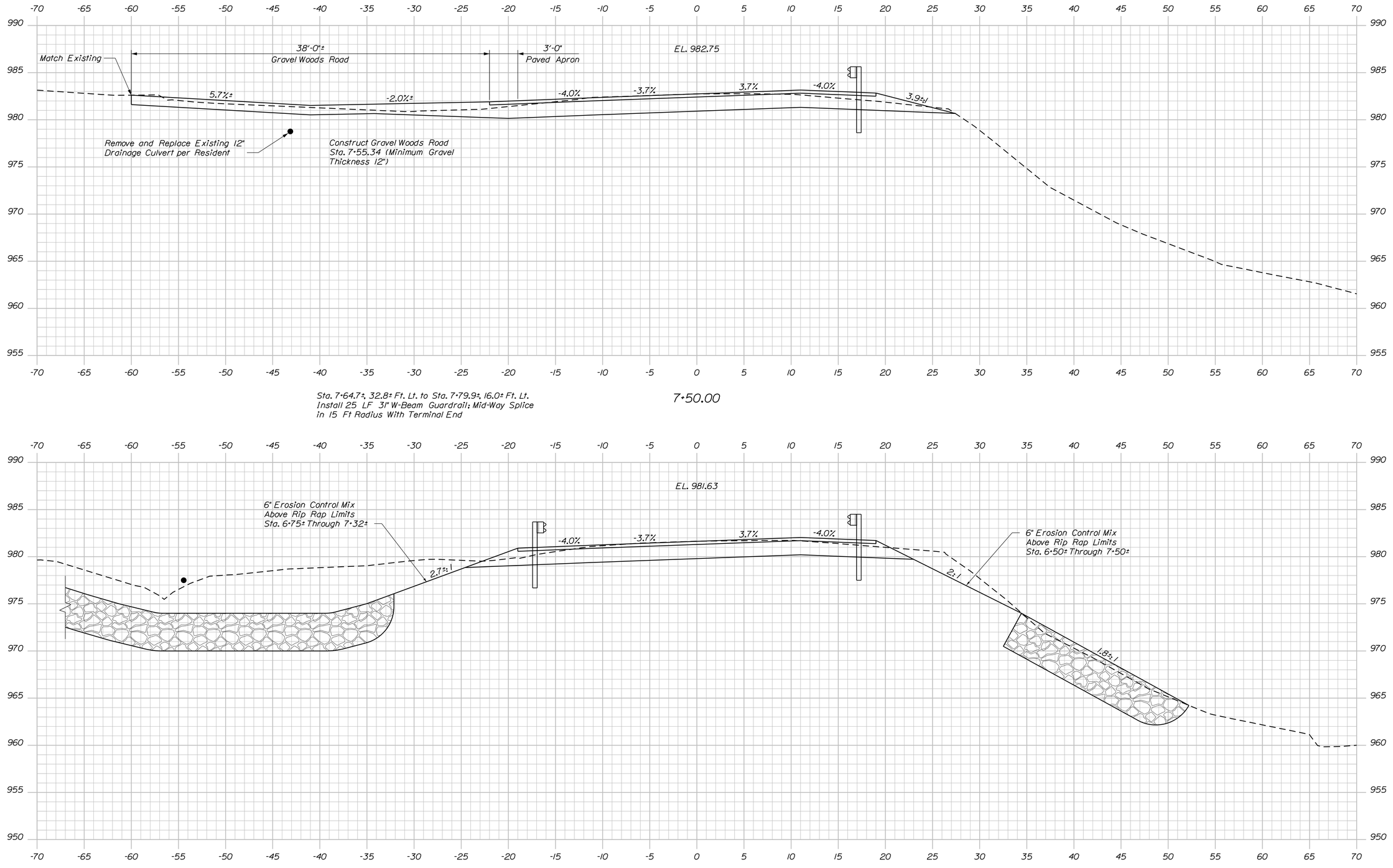
CROSS SECTIONS

SHEET NUMBER

12

OF 26

Sta. 6+75.00 to Sta. 7+00.00



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		
DESIGN-DETAILED	M. GRAY	BY	DATE
CHECKED-REVIEWED	R. MYERS	R. MAYER	APR 2019
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	MAR 2021
DESIGN3-DETAILED3			APR 2019
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

CROSS SECTIONS

SHEET NUMBER

13

OF 26

Sta. 7+25.00 to Sta. 7+50.00

Username: Richard.Moyer Date:4/8/2021

Division: BRIDGE

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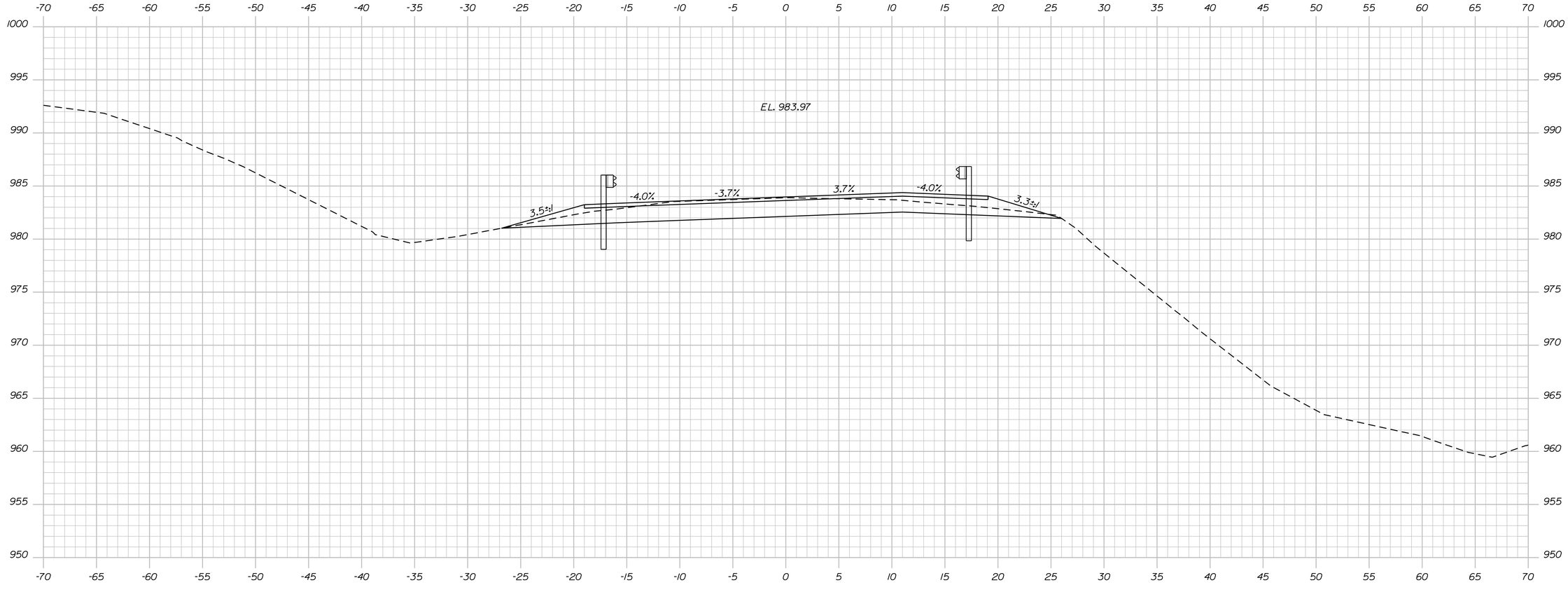


Sta. 7+79.9±, 16.0± Ft. Lt. to Sta. 8+27.3±, 16.0± Ft. Lt.
Install 46.875 LF of 31" W-Beam Guardrail; Mid-Way Splice

7+75.00

Sta. 7+71.9±, 16.0± Ft. Rt. to Sta. 8+10.2±, 17.6± Ft. Rt.
Install 31" W-Beam Guardrail; Mid-Way Splice Tangent Terminal

Username: Richard.Moyer Date:4/8/2021
Division: BRIDGE
Filename: ...\MSTA\014_XSECT_7+75_007.dgn

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

CROSS SECTIONS

SHEET NUMBER

14

OF 26

Sta. 8+00.00 to Sta. 8+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

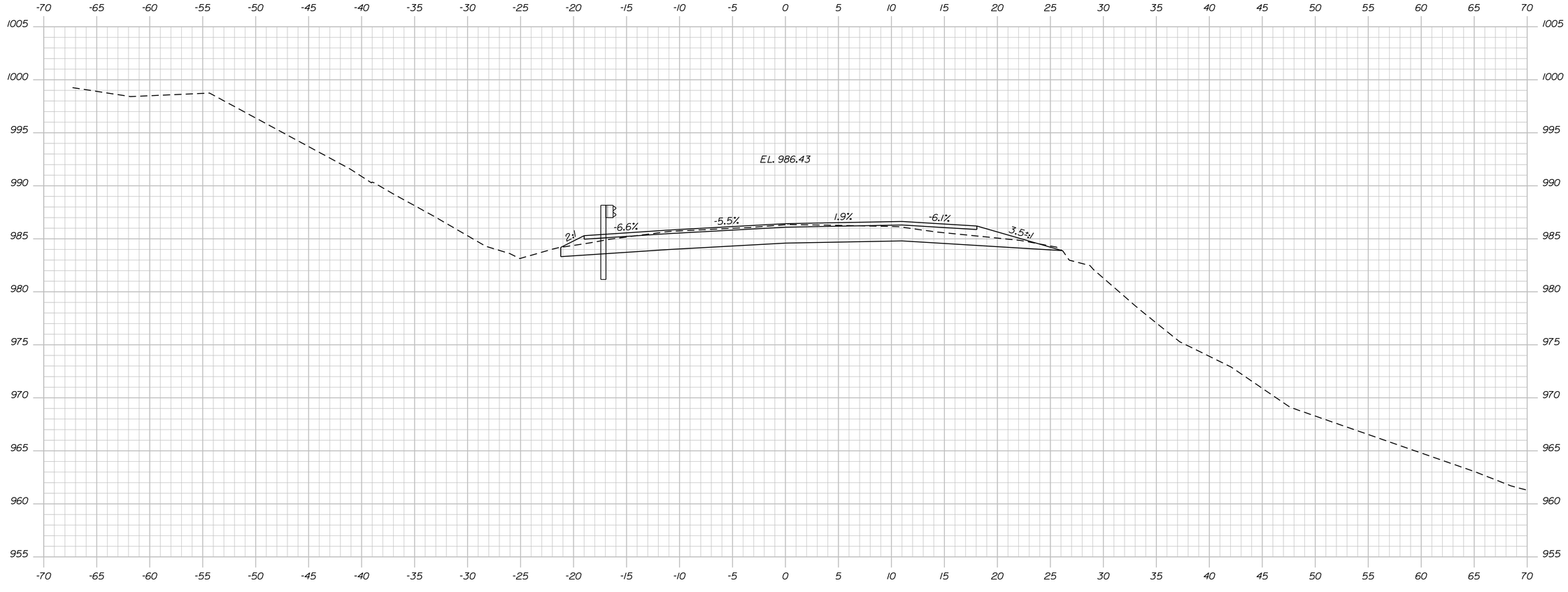
CROSS SECTIONS

SHEET NUMBER

15

OF 26

Filename: ...\MSTA\015_XSECT_8+00_008.dgn Division: BRIDGE Username: Richard.Moyer Date:4/8/2021



Sta. 8+27.3, 16.0' Ft. Lt. to Sta. 9+32.9, 30.0 Ft. Lt.
Install 31" W-Beam Guardrail; Mid-Way Splice Buried-In-Backslope Terminal

8+25.00
End Full-Depth Construction/Begin Transition

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		
DESIGN-DETAILED	M. GRAY	BY	APR 2019
CHECKED-REVIEWED	R. MYERS	R. MAYER	MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

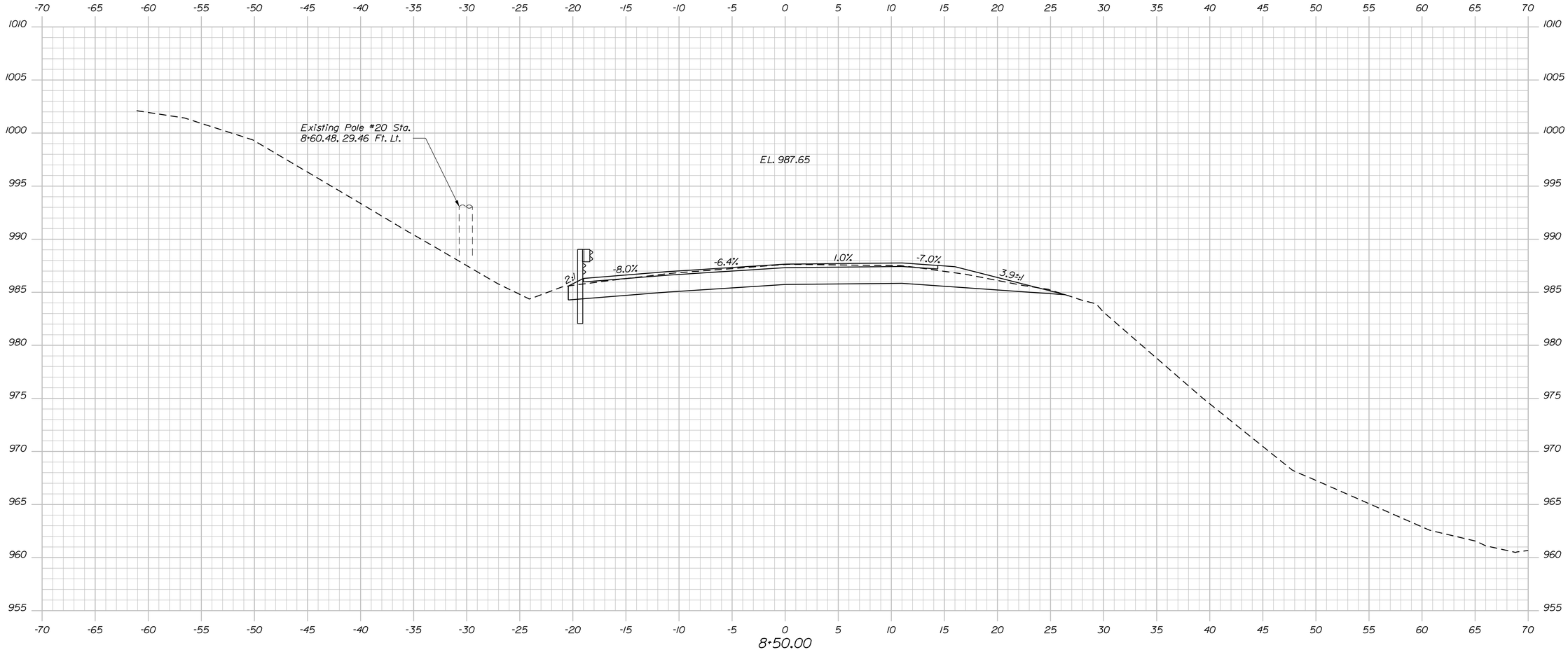
DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

CROSS SECTIONS

SHEET NUMBER

16

OF 26



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

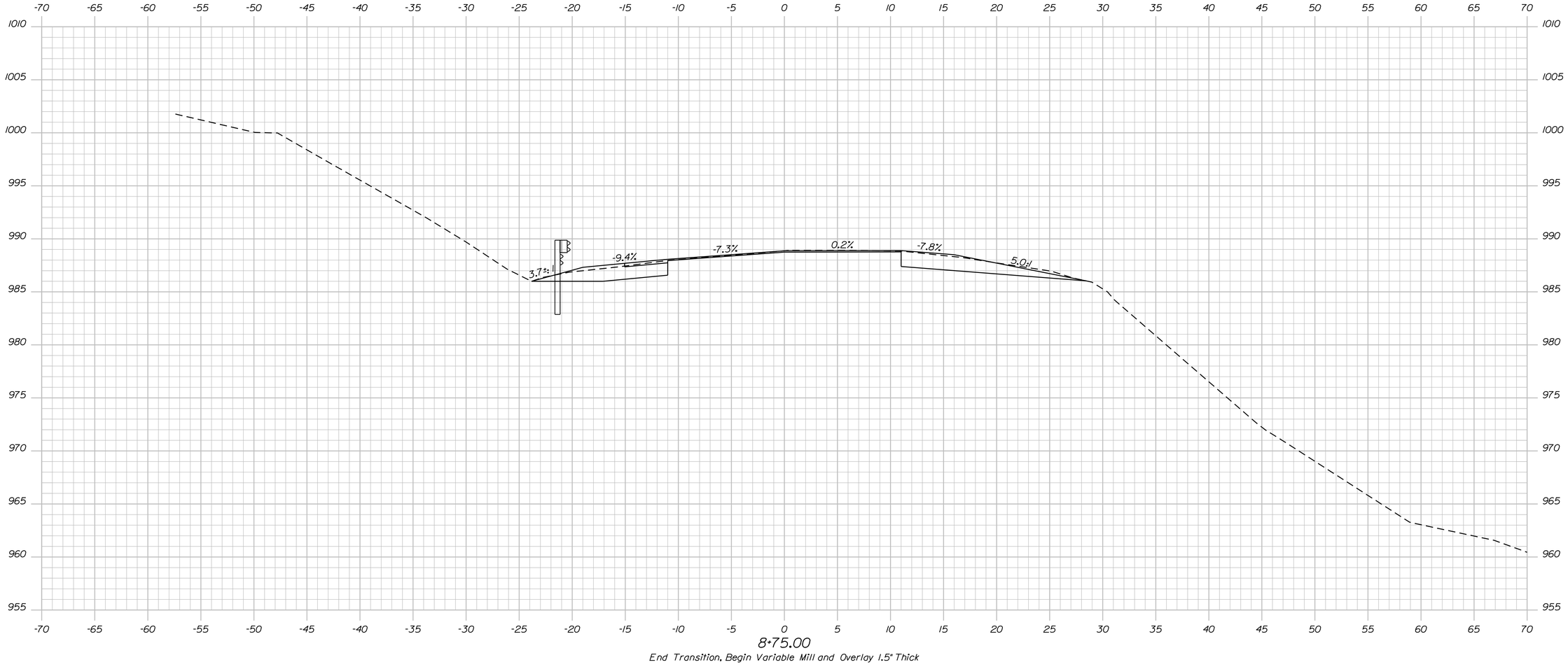
CROSS SECTIONS

SHEET NUMBER

17

OF 26

Sta. 8+50.00 to Sta. 8+50.00



Sta. 8+75.00 to Sta. 8+75.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

CROSS SECTIONS

SHEET NUMBER

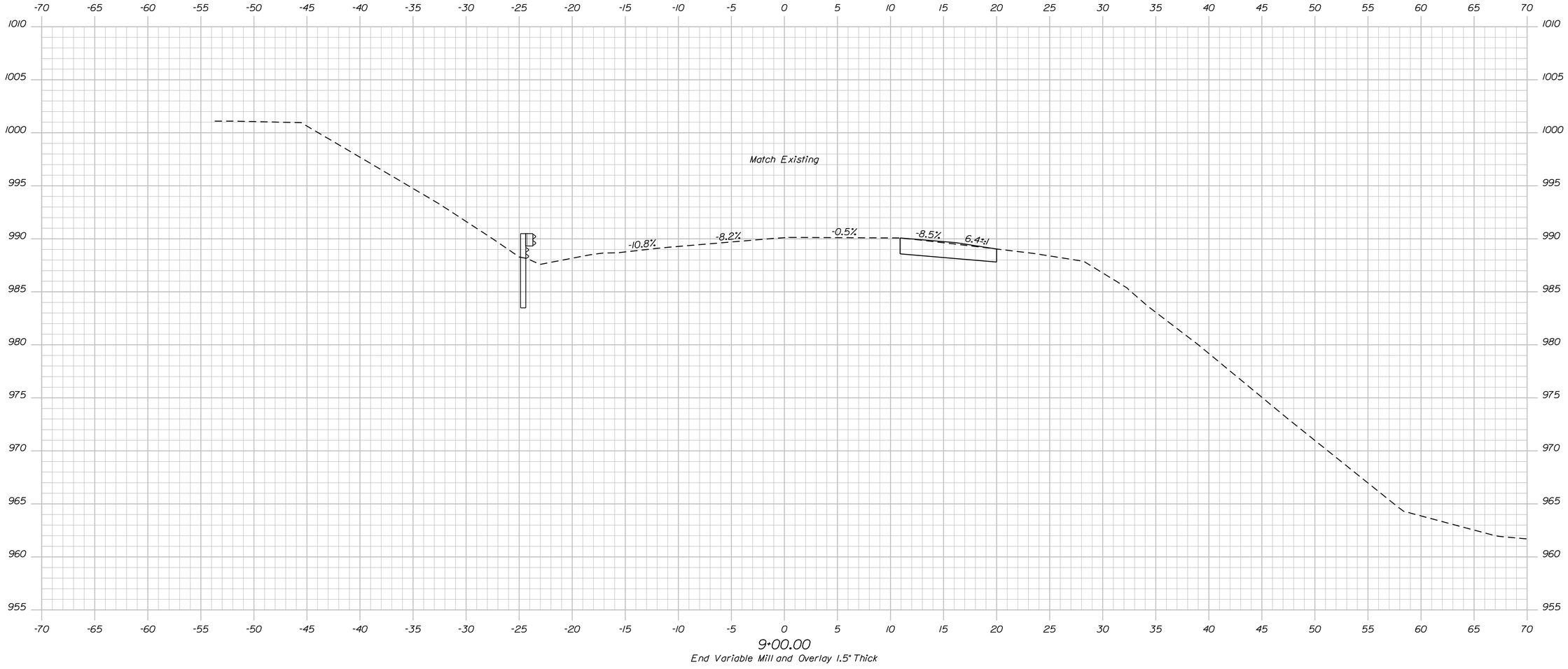
18

OF 26

Username: Richard.Moyer Date:4/8/2021

Division: BRIDGE

Filename: ...\MSTA\018_XSECT_8+75_011.dgn



9+00.00
End Variable Mill and Overlay 1.5" Thick

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

CROSS SECTIONS

SHEET NUMBER

19

OF 26

Sta. 9+00.00 to Sta. 9+00.00

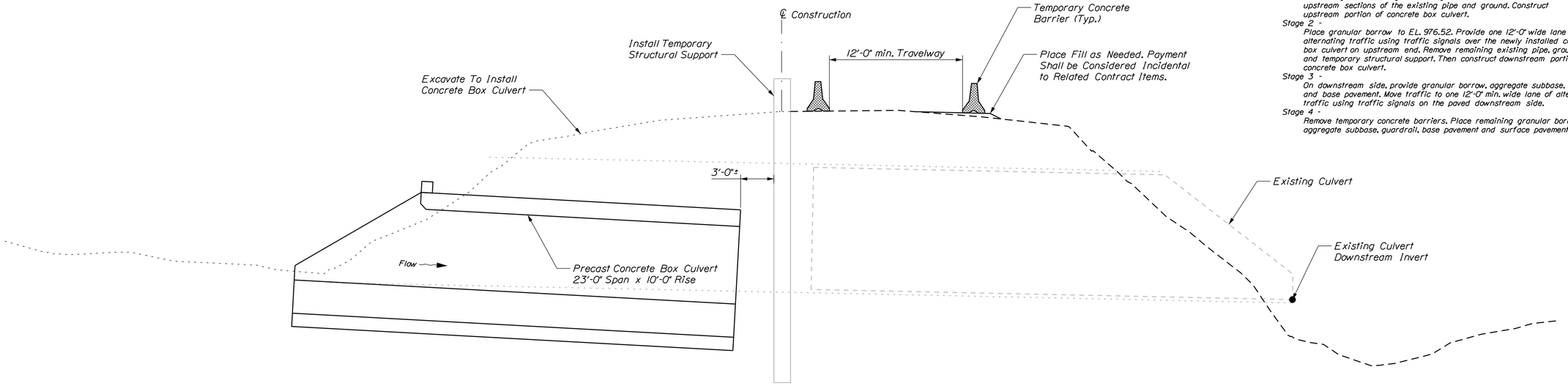
STAGED CONSTRUCTION NOTES:

Stage 1 -
Install temporary structural support. Maintain one 12'-0" min. wide lane of alternating traffic using traffic signals on downstream side. Remove the upstream sections of the existing pipe and ground. Construct upstream portion of concrete box culvert.

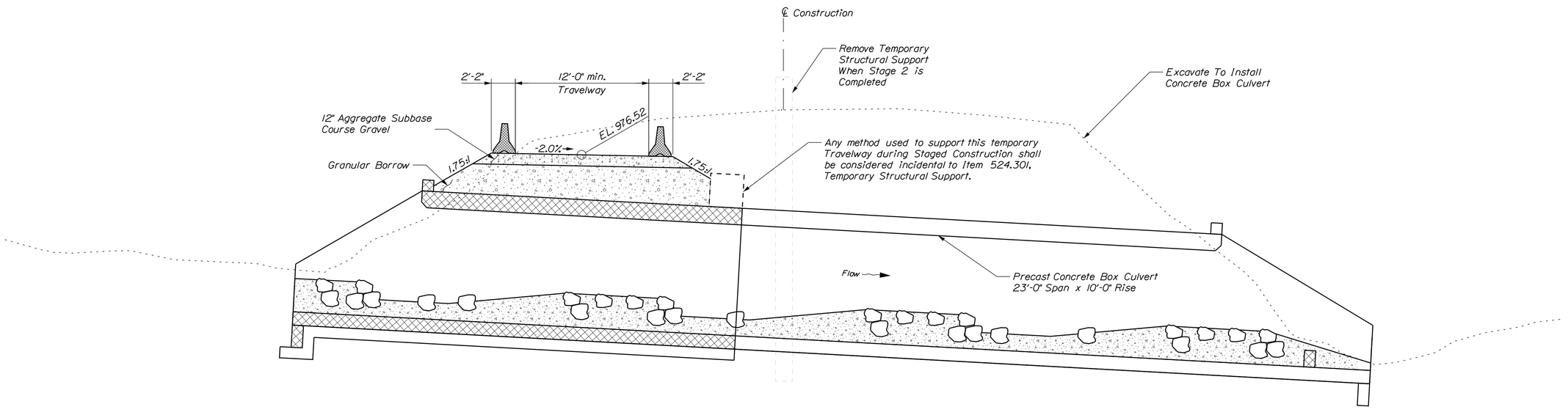
Stage 2 -
Place granular borrow to EL. 976.52. Provide one 12'-0" wide lane of alternating traffic using traffic signals over the newly installed concrete box culvert on upstream end. Remove remaining existing pipe, ground, and temporary structural support. Then construct downstream portion of concrete box culvert.

Stage 3 -
On downstream side, provide granular borrow, aggregate subbase, guardrail, and base pavement. Move traffic to one 12'-0" min. wide lane of alternating traffic using traffic signals on the paved downstream side.

Stage 4 -
Remove temporary concrete barriers. Place remaining granular borrow, aggregate subbase, guardrail, base pavement and surface pavement.



STAGE NO. 1



STAGE NO. 2

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE PLANS

BRIDGE NO. 2236

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS	R. MAYER	MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

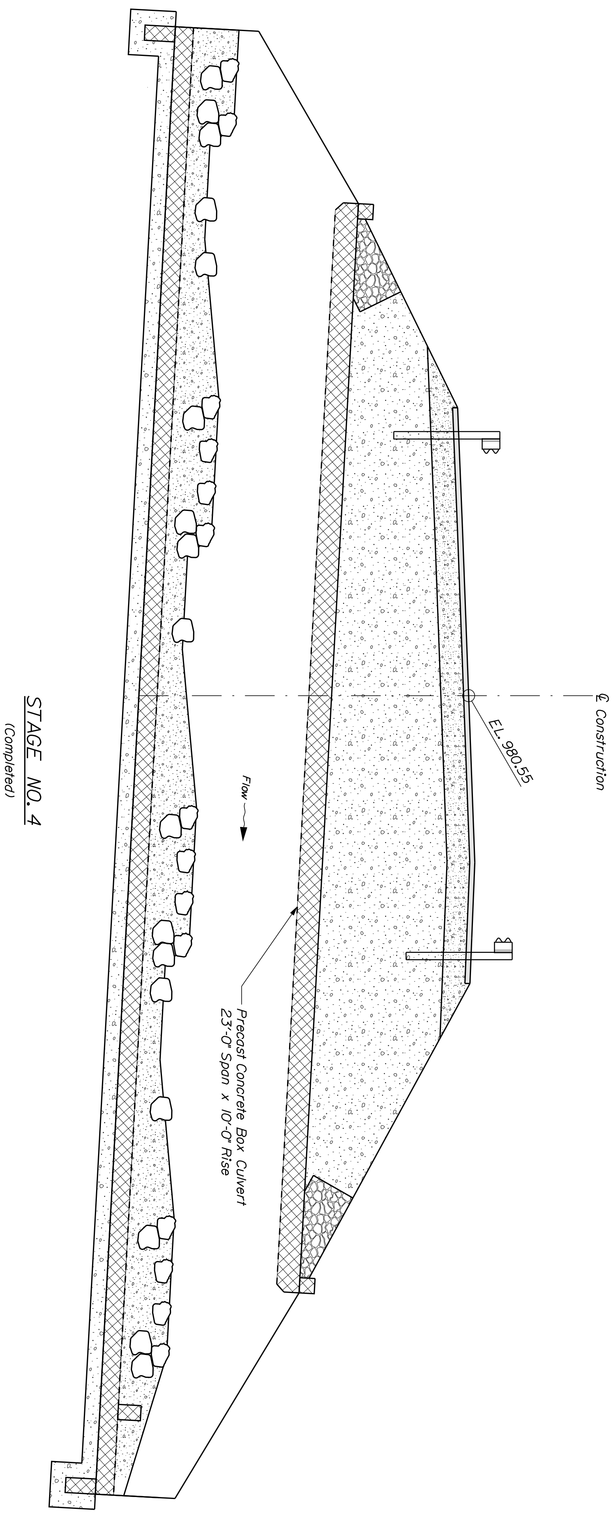
DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

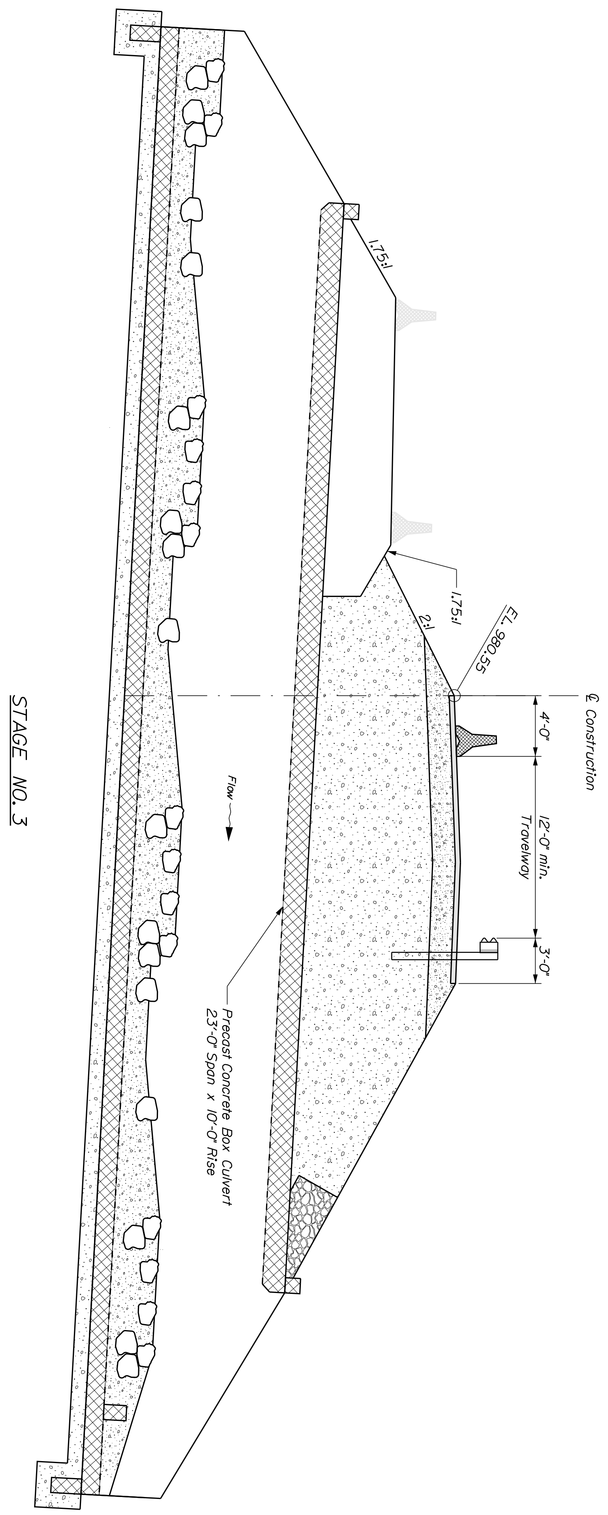
STAGED CONSTRUCTION, SHEET 1 OF 2

SHEET NUMBER

20

OF 26





DUGWAY BRIDGE
BALDWIN BROOK
BYRON OXFORD COUNTY

STAGED CONSTRUCTION,
SHEET 2 OF 2

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T.WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

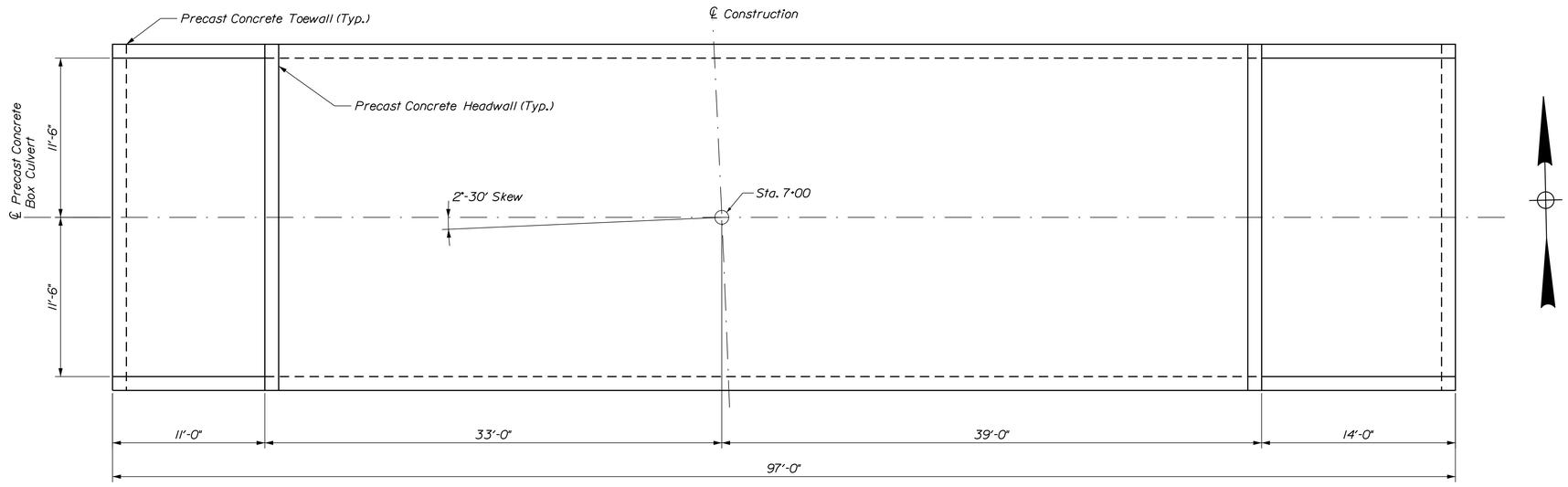
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

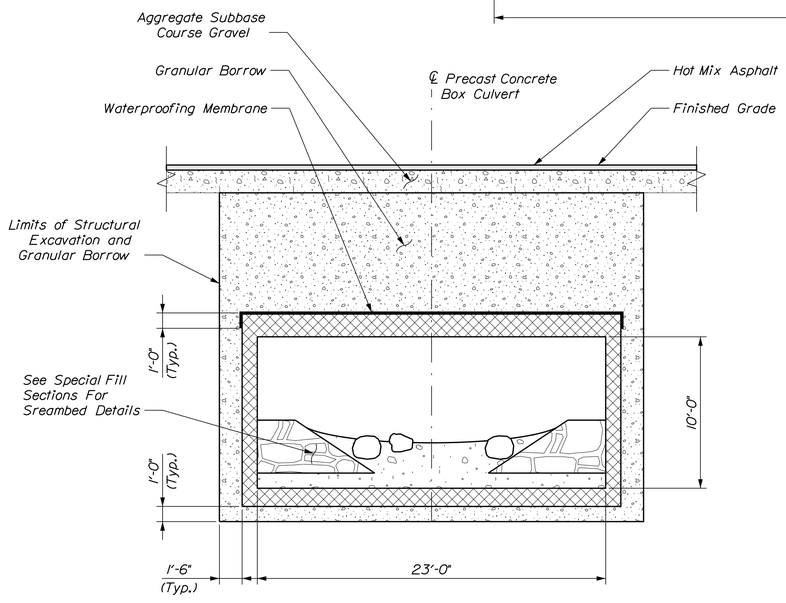
023559.00

BRIDGE NO. 2236 WIN 23559.00 BRIDGE PLANS

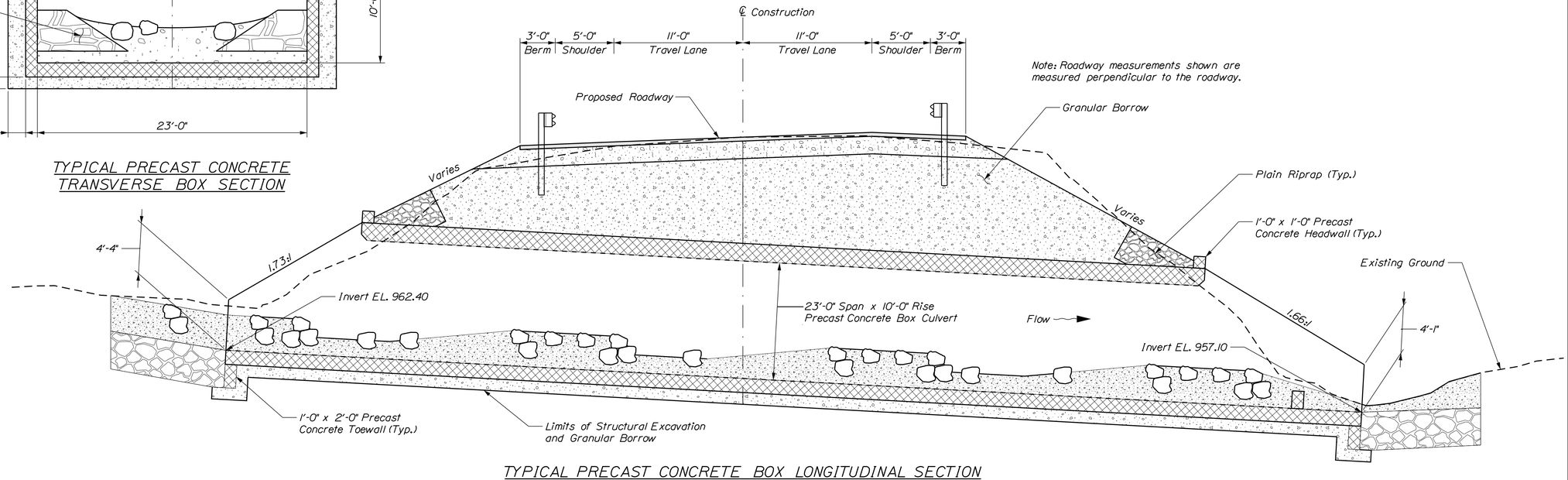
SHEET NUMBER 21 OF 26



PRECAST CONCRETE BOX PLAN



TYPICAL PRECAST CONCRETE TRANSVERSE BOX SECTION



TYPICAL PRECAST CONCRETE BOX LONGITUDINAL SECTION

Section Along ℄ of Concrete Box at Sta. 7+00 Skewed 2.5° Ahead on Left

PRECAST CONCRETE BOX NOTES

1. The precast units shall be designed to carry construction loadings with a minimum fill cover of 18 inches over the top of the units.

2. The construction, handling, and assembly of the precast units shall be in accordance with Special Provisions Section 534, Precast Structural Concrete, and with the manufacturer's specifications as applicable.

3. Install standard membrane waterproofing over the top and to 12 inches down the exterior sides of the precast units.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT		
DESIGN-DETAILED	M. GRAY	BY	R. MAYER
CHECKED-REVIEWED	R. MYERS	DATE	APR 2019
DESIGN2-DETAILED2	J. MANAHAN	BY	T. WHITE
DESIGN3-DETAILED3		DATE	APR 2019
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
BYRON — OXFORD COUNTY

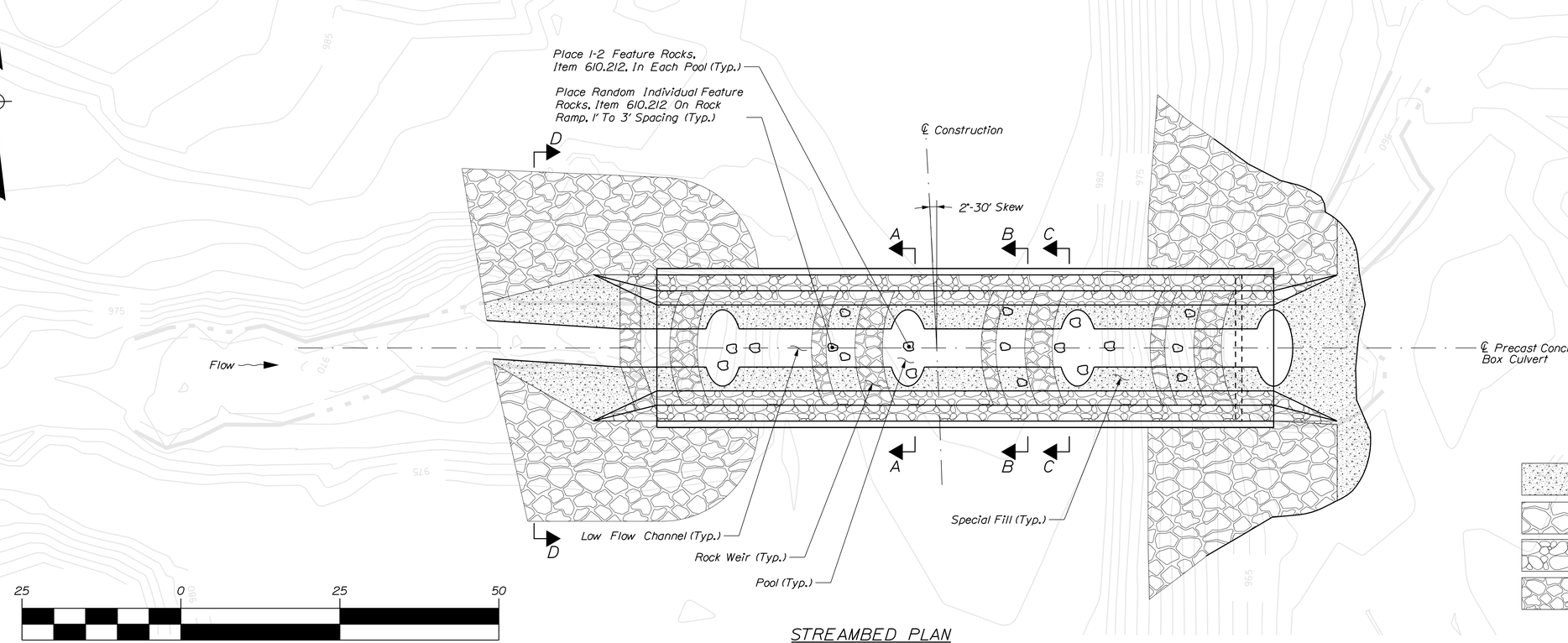
PRECAST BOX DETAILS

SHEET NUMBER

22

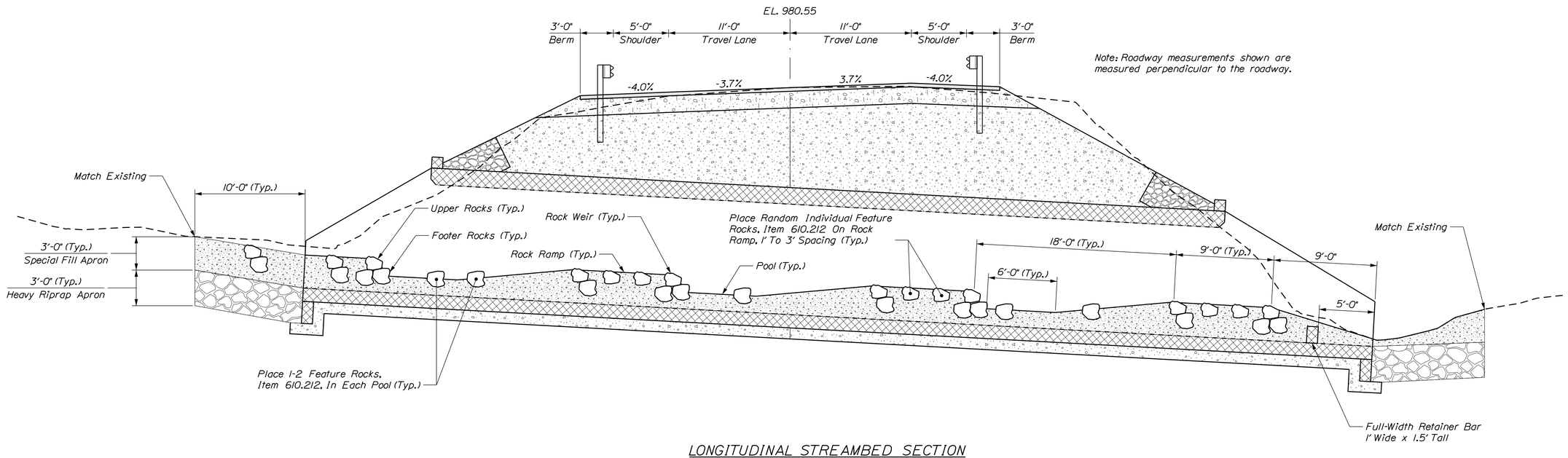
OF 26

Filename: ...\BRIDGE\MSTA\022_Btypical.dgn Division: BRIDGE Username: Richard.Mayer Date:4/8/2021



STREAMBED PLAN

(See Additional Sections Of The Box For Constructing The Invert Of The Box)



LONGITUDINAL STREAMBED SECTION

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T. WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

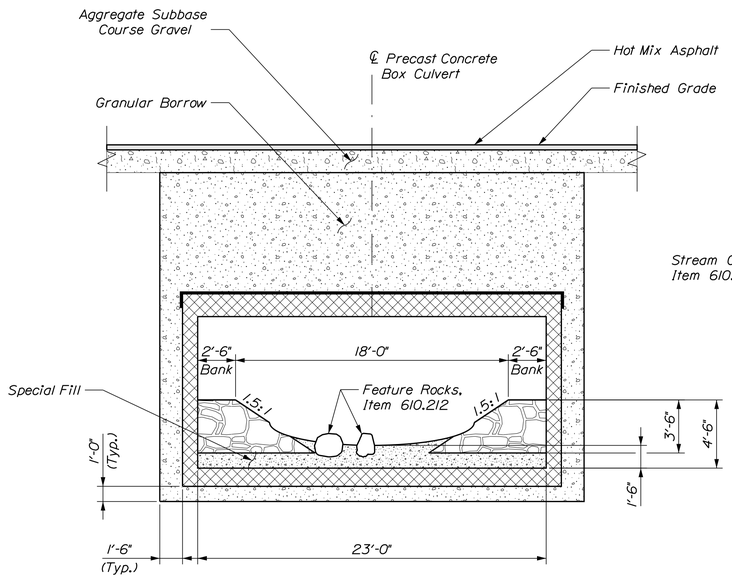
DUGWAY BRIDGE
BALDWIN BROOK
OXFORD COUNTY
BYRON

STREAMBED PLAN AND LONGITUDINAL SECTION

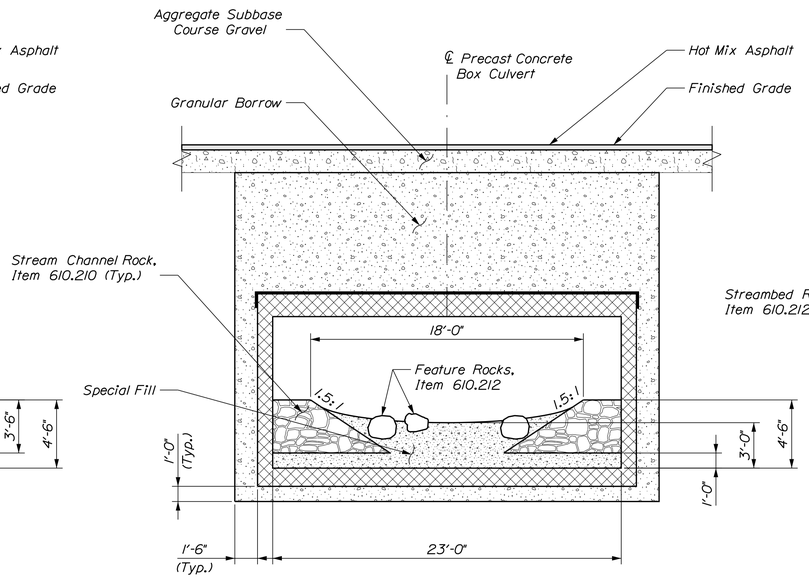
SHEET NUMBER

23

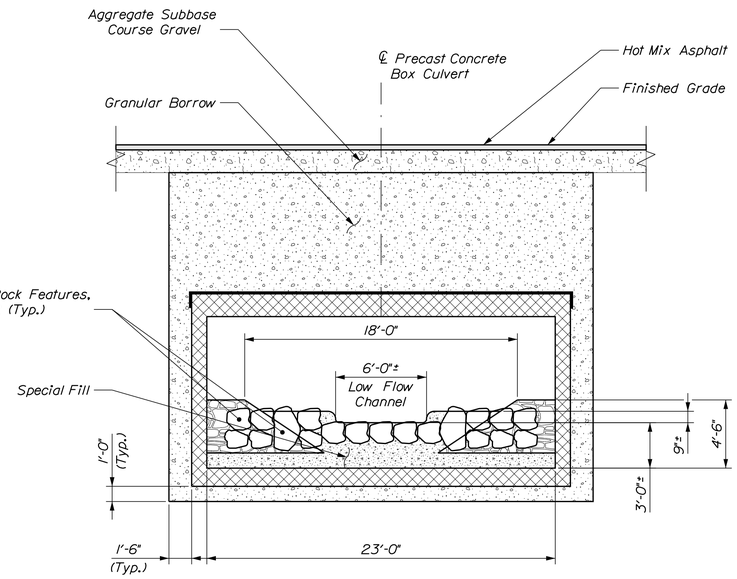
OF 26



TYPICAL LARGE POOL SECTION A-A



TYPICAL RAMP SECTION B-B



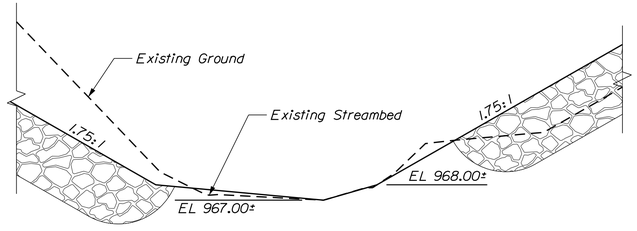
TYPICAL ROCK WEIR SECTION C-C

ROCK WEIR NOTES

1. Place Stones to Form Low Flow Channel with Minimum Depth as Shown.

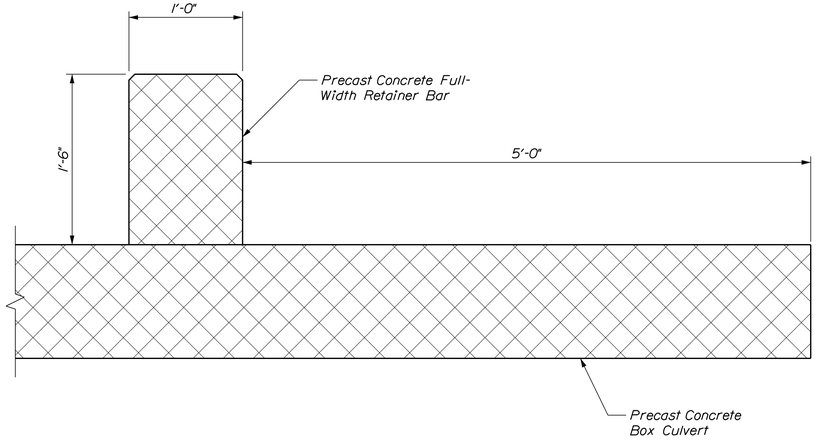
2. Maintain Effective Low Flow Opening Width of 6ft Min Between Rocks.

3. Key Rock Weir Stones Into Banklines.

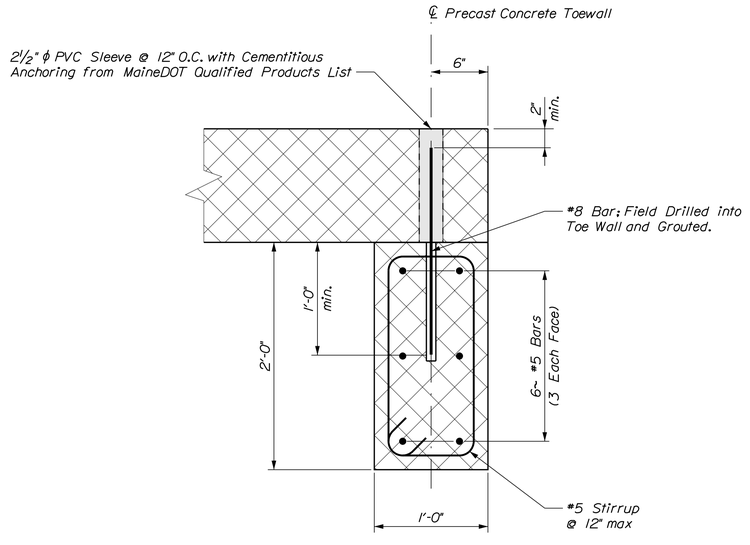


STREAMBED SECTION D-D

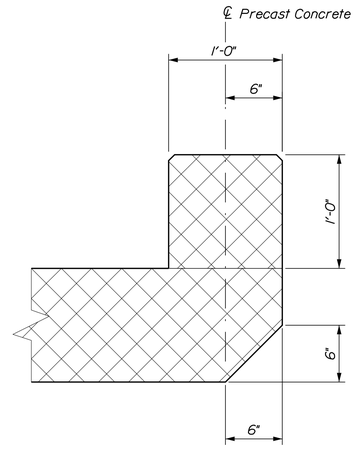
Looking Downstream



PRECAST CONCRETE FULL-WIDTH RETAINER BAR DETAIL



PRECAST CONCRETE TOEWALL DETAIL



PRECAST CONCRETE HEADWALL DETAIL

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

WIN 23559.00

BRIDGE NO. 2236

BRIDGE PLANS

		DATE
PROJ. MANAGER	M. WIGHT	
DESIGN-DETAILED	M. GRAY	APR 2019
CHECKED-REVIEWED	R. MYERS	MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	APR 2019
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

BY: M. GRAY, R. MAYER, T. WHITE

SIGNATURE

P.E. NUMBER

DATE

DUGWAY BRIDGE
BALDWIN BROOK
BYRON OXFORD COUNTY

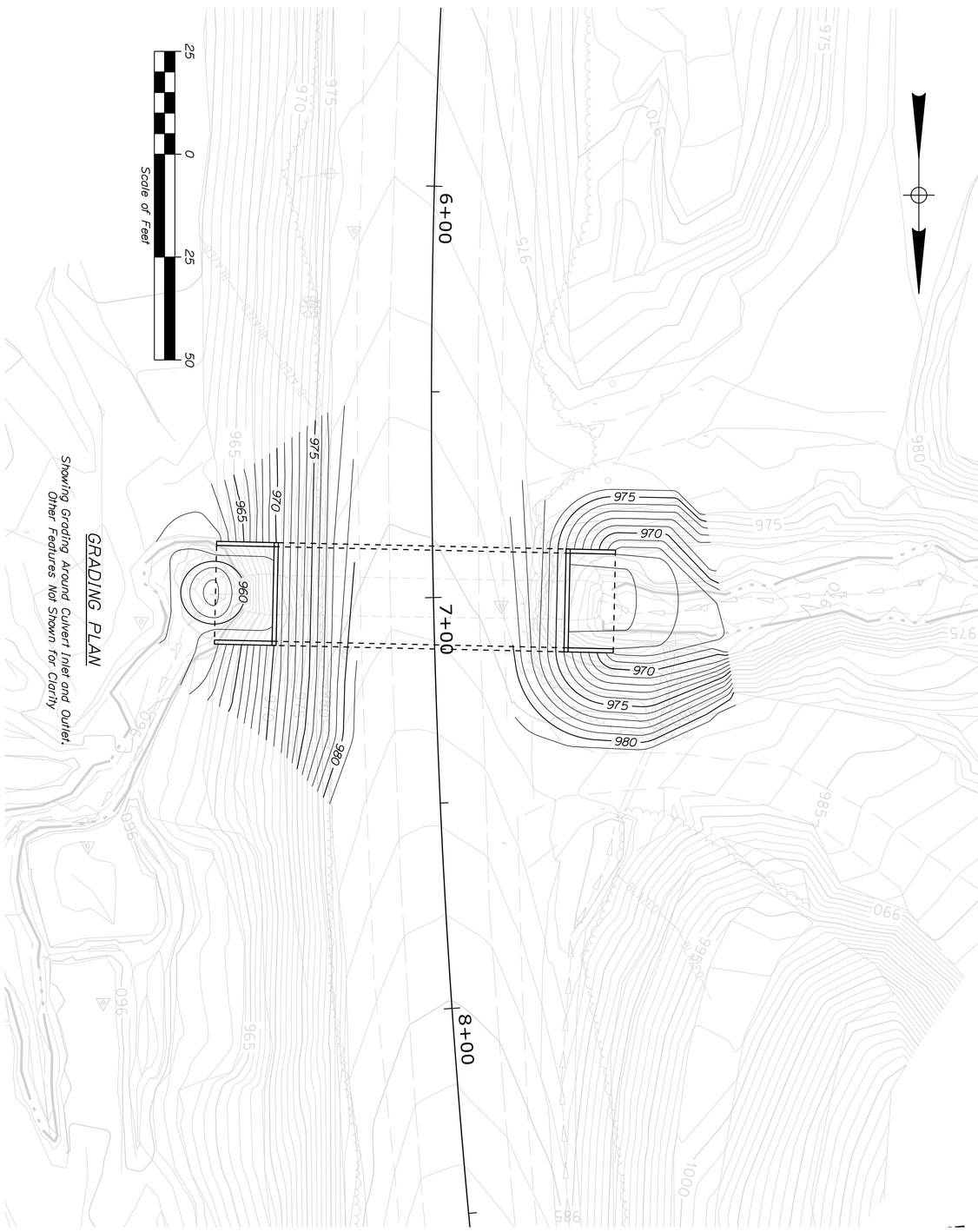
TYPICAL SECTIONS

SHEET NUMBER

24

OF 26

Filename: ...\024_BtypicaL_SpecialFill_Sections.dgn Division: BRIDGE Username: Richard.Mayer Date:4/8/2021



GRADING PLAN

Showing Grading Around Culvert Inlet and Outlet. Other Features Not Shown for Clarity

SHEET NUMBER 25 OF 26

DUGWAY BRIDGE
BALDWIN BROOK
BYRON OXFORD COUNTY

GRADING PLAN

PROJ. MANAGER	M. WIGHT	BY	DATE
DESIGN-DETAILED	M. GRAY	R. MAYER	APR 2019
CHECKED-REVIEWED	R. MYERS		MAR 2021
DESIGN2-DETAILED2	J. MANAHAN	T.WHITE	APR 2019
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

023559.00

BRIDGE NO. 2236 WIN 23559.00 BRIDGE PLANS

PLAN LEGEND

Town, County, State		New R/W Along Existing R/W		Existing	Proposed	Existing	Proposed
Approx. Property Lines — P.L. —		Building		Sanitary Sewer		Traveled Way	
Existing Right of Way		Clearing Limit Line		Telephone Line		Ditch	
Limits of Wrought Portion — L.O.W.P. —		Trees Conifer / Deciduous		Electric Line		Catch Basin	
Control Of Access — C.O.A. —		Tree Line	Bush Line	Water Line		Manhole	
New Right of Way		Water Edge		Underdrain Line		Sewer Manhole	
New Easement		Ledge	Rock/Boulder / Flag Pole	Gas Line		Utility Pole	
New Temporary Rights		Fence CHAIN LINK	BARB WIRE / STOCKADE	Guardrail		Fire Hydrant	
New R/W Within Existing R/W		Sign	Well / Mailbox	Culvert		Curbing	

Cut Line C—C—C Fill Line F—F—F
Stonewall Retaining Wall
Baseline 10+00 11+00 12+00
Monument Traverse Point
Iron Rod Found ● IRF Pipe Found ● IPF
Replacement Pin Set

THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.

25 0 25 50 75 100
Scale of Feet

STATE OF MAINE REGISTRY OF DEEDS

COUNTY _____
RECEIVED _____, _____
at _____h _____m _____M and
recorded in Plan Bk _____, Pg. _____
Attest: _____
REGISTER

CURVE DATA #1
PI = 6+72.49
D = 2°43'42.1"
Δ = 10°47'30.6" Lt.
R = 2100.00'
L = 395.54'
T = 198.36'
E = 9.35'

GRID NORTH
NAD 83(2011) - MAINE 2000 WEST ZONE
NAVD 88
COMBINED FACTOR 0.99994372

BALDWIN BROOK

POB = STA. 3+92.20
PC = STA. 4+74.13
POE = STA. 10+11.67
PT = STA. 8+69.67

LOCATION OF STATE HIGHWAY "180" PRIOR TO 1964 PRESUMED DISCONTINUED BY ABANDONMENT

APPROXIMATE LOCATION BYPASS PUMPING PIPE

COFFERDAM

RIGHT OF WAY TO BAYROOT LLC O.C.R.D. BOOK 3654 PAGE 258
RIGHT OF ACCESS TO FRANKLIN GAMMON O.C.R.D. BOOK 1865 PAGE 154

RIGHT OF ACCESS TO CHRISTOPHER C. POLAND SHERI L. POLAND O.C.R.D. BOOK 5442 PAGE 245
RIGHT OF WAY TO S P FORESTS L.L.C. O.C.R.D. BOOK 3654 PAGE 288

URSA MAJOR, LLC
ITEM NO. (1)
CONST. & MAINT. EASE. = 0.13± AC. (1)
TEMP. CONST. RIGHTS = 0.13± AC. (1)
TOTAL AREA = VAST ACREAGE

BAYROOT LLC
ITEM NO. (3)
CONST. & MAINT. EASE. = 189± S.F. (1)
TEMP. CONST. RIGHTS = 0.07± AC. (1)
TOTAL AREA = 70± AC. (PER TAX MAP - BOTH SIDES ROAD)

URSA MAJOR, LLC
ITEM NO. (2)
CONST. & MAINT. EASE. = 27± S.F. (1)
TEMP. CONST. RIGHTS = 343± S.F. (1)
TOTAL AREA = VAST ACREAGE

BAYROOT LLC
ITEM NO. (4)
CONST. & MAINT. EASE. = 0.11± AC. (1)
TEMP. CONST. RIGHTS = 1860± S.F. (1)
TOTAL AREA = 70± AC. (PER TAX MAP - BOTH SIDES ROAD)

TO ROXBURY
BEGIN B.L. N4°55'52.8"E 81.93'
4+00 5+00 6+00 7+00 8+00
395.54'
ROUTE 17 SWIFT RIVER ROAD STATE HIGHWAY "180"
9+00 10+00
N5°51'37.9"W 142.00'
END B.L.
TO TOWNSHIP D

TEMP. CONST. LIMITS
TEMP. RIGHTS FOR UTILITIES
CONST. & MAINT. EASE. LIMITS
CLL
0.13± AC.
0.07± AC.
0.11± AC.
27± S.F.
343± S.F.
1860± S.F.
PRECAST CONCRETE BOX CULVERT
CMP 11 FOOT DIAMETER
JOINT NETT 224 / CMP 18
JOINT NETT 226 / CMP 20
JOINT NETT 211/225 / CMP 19

EXISTING RIGHT OF WAY REFERENCES

S.H.C. FILE NO. 9-147, APRIL 1964

OXFORD COUNTY COMMISSIONERS RECORDS
VOLUME 3 PAGE 142
1849, 4 RODS WIDE

OXFORD COUNTY COMMISSIONERS RECORDS
VOLUME 6 PAGE 269
1872, ALTERATION NO WIDTH

OXFORD COUNTY COMMISSIONERS RECORDS
VOLUME 9 PAGE 23
1895, ALTERATION NO WIDTH

DUGWAY BRIDGE
OVER
BALDWIN BROOK

BRIDGE NO. 2236 WIN 023559.00

REVISIONS NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE
		COND.	3/22/21	5592	585

BRUCE A. VAN NOTE
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "180"
ROUTE 17 SWIFT RIVER ROAD
BYRON OXFORD COUNTY
FEDERAL AID PROJECT NO. 2355900

DECEMBER 2020	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 9-413
SCALE 1" = 25'	SHEET 1 OF 1	

SHEET NUMBER
26
OF 26

ITEM	CHECKED	TECH
EXISTING CONDITION PLAN	PNS	PNS
FINAL RIGHT OF WAY		
AREAS		

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016 - 207-624-3460
BYRON
RIGHT OF WAY MAP

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: BRIDGE Username: Richard.Moyer Date:4/8/2021