STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Seventh Edition 2014 with 2015 Interim Revisions.

TRAFFIC DATA

Current (2016) AADT	8640
Future (2036) AADT	10370
DHV - % of AADT	10
Design Hour Volume	1037
Heavy Trucks (% of AADT)	10
Heavy Trucks (% of DHV)	8
Directional Distribution (% of DHV)	50
18 kip Equivalent P 2.0	952
18 kip Equivalent P 2.5	907
Design Speed (mph)	35

MATERIALS

1. Materials for construction shall be furnished as specified in the Project Special Provisions

LIST OF DRAWINGS

Title Sheet....1
Quantities & Notes....2
Temporary Traffic Plans....3-4
Cross Sections....5-12
Rock Slope Remediation Area Location Plans, North and South....13-14

PROSPECT
WALDO COUNTY
ROCK SLOPE REMEDIATION
US ROUTE 1 & STATE ROUTE 3
FEDERAL AID PROJECT No. NHPP-1879(200)
PROJECT LENGTH 0.150 mi.

UTILITIES

MaineDOT (Lighting)

MAINTENANCE OF TRAFFIC

Maintain two-way traffic on existing northbound travel lane using two 12 ft. lanes and a temporary lane located east of the existing northbound travel lane.

PROJECT LOCATION	Located along Rt. 1 & 3 in Prospect, beginning 1.67 miles northerly of Meadow Road and extending northerly 1.00 miles. Lat./Long. 44°33'38.5" N -69°48'24.6" W
PROGRAM AREA	Bridge
OUTLINE OF WORK	To remediate portions of the rock slope, located along westerly approach to the Penobscot Narrows Bridge, using a rock dowels, anchored wire mesh netting, wire rope (cable lashing) and scaling.

WIN 18792.00

NHPP-1879(200)

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED — DATE

COMMISSIONER: 6/15/16

CHIEF ENGINEER: 6-14-16

STATE OF MAINE — Michael Harry Wight — 8089 — LICENSED PROFESSIONAL ENGINEER

SIGNATURE 8089

P.E. NUMBER

DATE 6/13/2016 (Sheets 1 to 12)

PROJECT INFORMATION

PROGRAM	BRIDGE
PROJECT MANAGER	MICHAEL WIGHT
DESIGNER	WAYNE CHADBOURNE
CONSULTANT	HALEY & ALDRICH, INC.
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

PROSPECT
ROCK SLOPE REMEDIATION

TITLE SHEET

SHEET NUMBER 1 OF 14

Filename: \00\BRIDGE\MSTA\001_Title.dgn Division: BRIDGE Username: William.T.Rohman Date: 6/13/2016

ESTIMATED QUANTITIES

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.202	REMOVING PAVEMENT SURFACE	80	SY
203.20	COMMON EXCAVATION	41	CY
203.215	ROCK SCALING	48	HR
203.24	COMMON BORROW	10	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	28	CY
403.21041	HMA 9.5 MM POLYMER MODIFIED THIN LIFT SURFACE TREATMENT	260	T
403.211	HOT MIX ASPHALT (SHIMMING)	15	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	83	T
409.15	BITUMINOUS TACK COAT - APPLIED	154	G
504.9064	PULL TEST	12	EA
504.9081	ROCK DOWEL	800	LF
513.30	WIRE MESH FOR ROCK FALL PROTECTION	2500	SF
514.06	CURING BOX FOR CONCRETE CYLINDERS	1	EA
526.301	TEMPORARY CONCRETE BARRIER TYPE I (60 LF)	1	LS
527.34	WORK ZONE CRASH CUSHIONS	3	UN
613.319	EROSION CONTROL BLANKET	150	SY
615.07	LOAM	20	CY
618.141	SEEDING METHOD NUMBER 3	3	UN
619.12	MULCH	3	UN
619.14	EROSION CONTROL MIX	30	CY
620.60	SEPARATION GEOTEXTILE	610	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	3000	LF
627.75	WHITE OR YELLOW PAVEMENT & CURB MARKING	285	SF
627.76	TEMPORARY PAVEMENT MARKING LINE, WHITE OR YELLOW	1	LS
627.77	REMOVING PAVEMENT MARKINGS	1026	SF
627.811	TEMPORARY BI-DIRECTIONAL YELLOW DELINEATORS	50	EA
627.812	TEMP. BI-DIRECTIONAL WHITE DELINEATORS	50	EA
629.05	HAND LABOR, STRAIGHT TIME	40	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	40	HR
631.14	GRADER (INCLUDING OPERATOR)	10	HR
631.15	ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	20	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	20	HR
631.21	ROAD BROOM (INCLUDING OPERATORS AND HAULER)	20	HR
631.212	SMALL PAVEMENT GRINDER (INCLUDING OPERATOR)	20	HR
639.19	FIELD OFFICE TYPE B	1	EA
641.71	TRAFFIC SIGNAL MODIFICATION	1	LS
645.109	REMOVE AND SALVAGE HIGHWAY SIGNS	4	EA
652.312	TYPE III BARRICADE	6	EA
652.33	DRUM	50	EA
652.343	TEMPORARY MODULAR DELINEATOR CURB	220	LF
652.34	CONE	100	EA
652.35	CONSTRUCTION SIGNS	300	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	500	HR
652.41	PORTABLE CHANGEABLE MESSAGE SIGN	3	EA
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

1. Any clearing if needed will be as directed by the Resident. Payment for clearing will be considered incidental to related contract items.

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

3. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.

4. In areas where the Resident directs the Contractor not to excavate to the subgrade line shown on the plans, payment for removing existing pavement, grubbing, shaping, ditching, and compacting the existing subbase and layers of new subbase 6 inches or less thick will be made under appropriate equipment rental items.

5. Place loam 2 inches deep on all new or reconstructed sideslopes as shown on plans 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. 619.1401, Erosion Control Mix.

7. The existing rock cut plans and highway plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the construction of the rock cut and the highway. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the rock cut and roadway during its life span.

8. 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.

9. For easements, construction limits and right of way lines, refer to existing Right of Way Maps associated with PIN 79654.00.

10. Install rock slope remediation measures in accordance with Figures 1 through 10 and details SK-1 and SK-2 of the Contract Bid Book and Special Provisions 203, 504 and 513.

11. Any marking paint used on the rock slope shall non-permanent paint such as spray chalk paints or water based paints. The marking paint to be used shall be submitted to the Resident for approval. The Contractor shall minimize the use of marking paint on the rock slope to a maximum extent practicable.

12. The Contractor shall remove all rock debris from the entire ditch at the base on the rock slope, after all work on the rock slope has been completed. This includes rock fragments existing in the ditches before work starts and after completion of the work. This work will not be paid for directly, but will considered incidental to related contract items.

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

14. The existing right of way plans may be accessed at the MaineDOT web address.

15. Traffic island removal not including the granite curbing and signs will be paid for under Item No. 203.20, Common Excavation.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

WIN 18792.00

BRIDGE NO. BRIDGE PLANS

PROJ. MANAGER	M. Wight	BY	DATE
DESIGN-DETAILED	M. Wight	D. Sullivan	MAY 2016
CHECKED-REVIEWED	D. Show	----	----
DESIGN2-DETAILED2	----	----	----
DESIGN3-DETAILED3	----	----	----
REVISIONS 1	----		----
REVISIONS 2	----		----
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REVISIONS 4	----		----
FIELD CHANGES	----		----

SIGNATURE

P.E. NUMBER

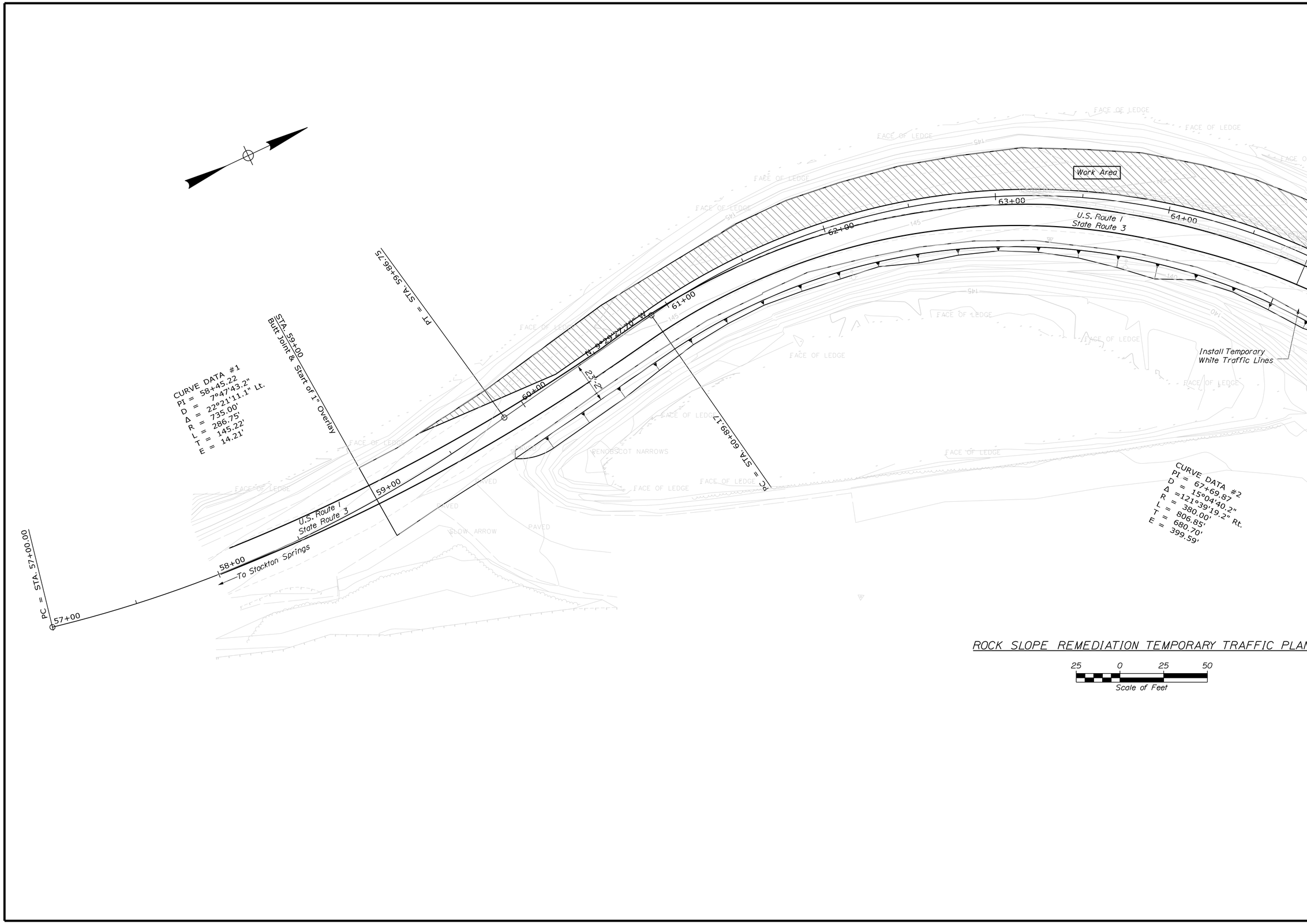
DATE

PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

ESTIMATED QUANTITIES

SHEET NUMBER
2
OF 14

Filename: ...\BRIDGE\MSTA\002_Estimate.dgn Division: BRIDGE Username: William.T.Rohman Date:6/23/2016



ROCK SLOPE REMEDIATION TEMPORARY TRAFFIC PLAN

25 0 25 50
Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

BRIDGE NO. WIN 18792.00 BRIDGE PLANS

PROJ. MANAGER	M. Wight	BY	DATE
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FIELD CHANGES			

SIGNATURE

P.E. NUMBER

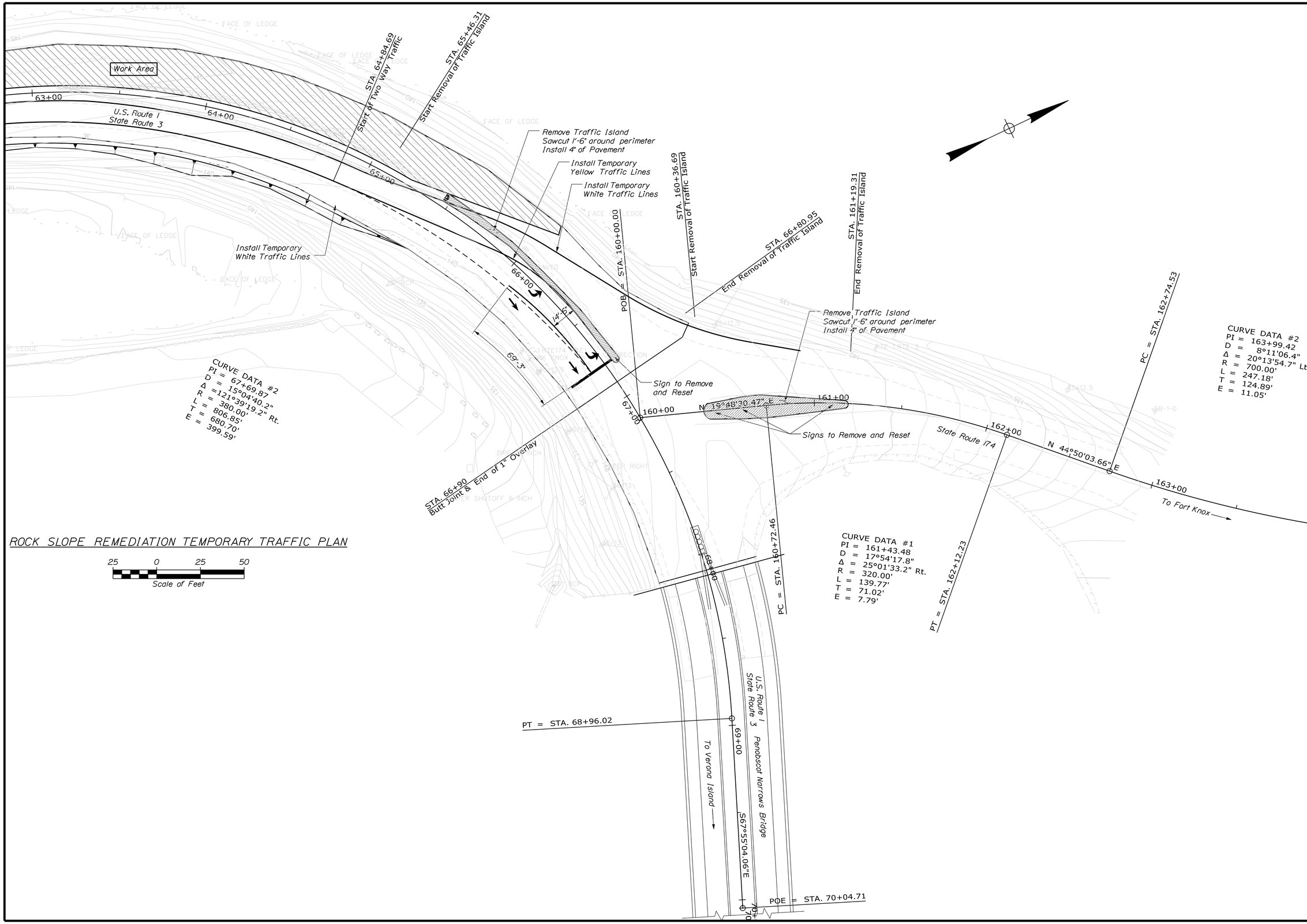
DATE

PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

TEMPORARY TRAFFIC PLAN

SHEET NUMBER
3
OF 14

Filename: ...\MSTA\003_BDPlan_Rock_Stabl.dgn Division: BRIDGE Username: William.T.Rohman Date:6/13/2016



ROCK SLOPE REMEDIATION TEMPORARY TRAFFIC PLAN

25 0 25 50
Scale of Feet

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

BRIDGE NO. WIN 18792.00 BRIDGE PLANS

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SIGNATURE

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PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

TEMPORARY TRAFFIC PLAN

SHEET NUMBER
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OF 14

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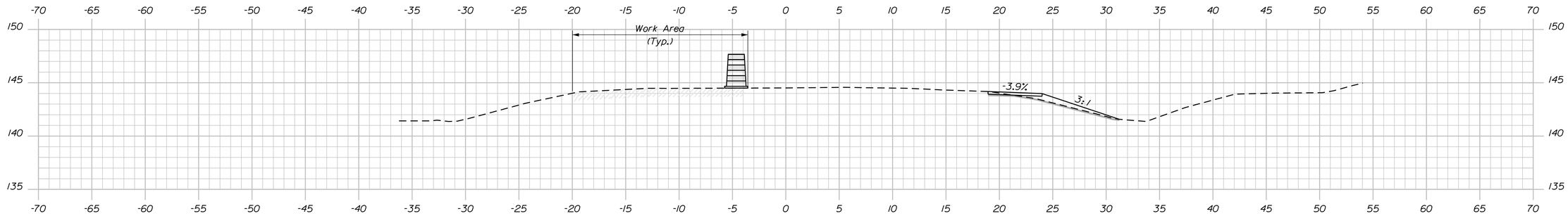

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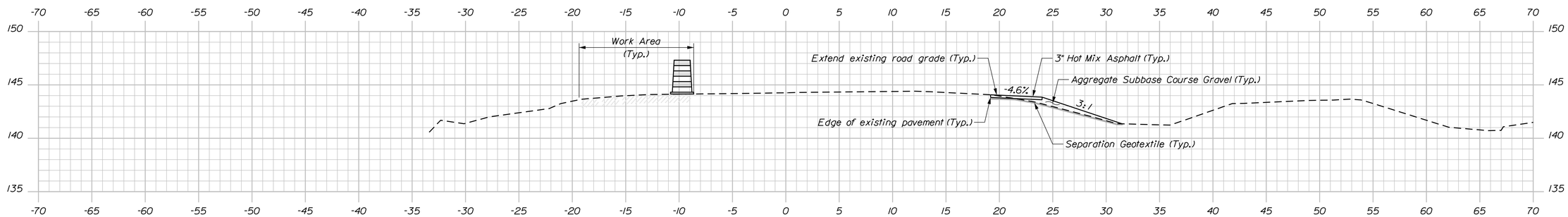

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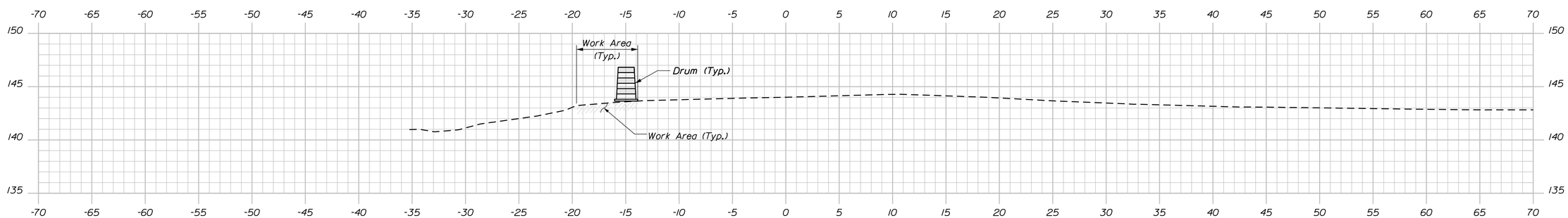

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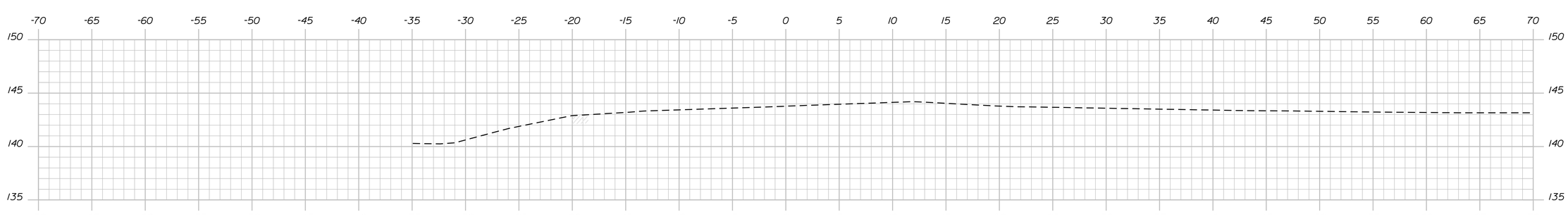

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Sta. 59+50.00 to Sta. 60+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

BRIDGE NO. WIN 18792.00 BRIDGE PLANS

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SIGNATURE

P.E. NUMBER

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PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

CROSS SECTIONS

SHEET NUMBER
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OF 14

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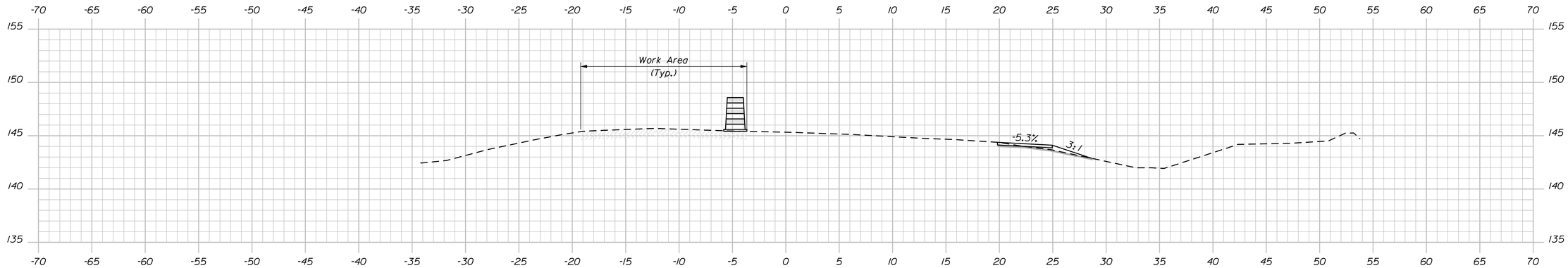

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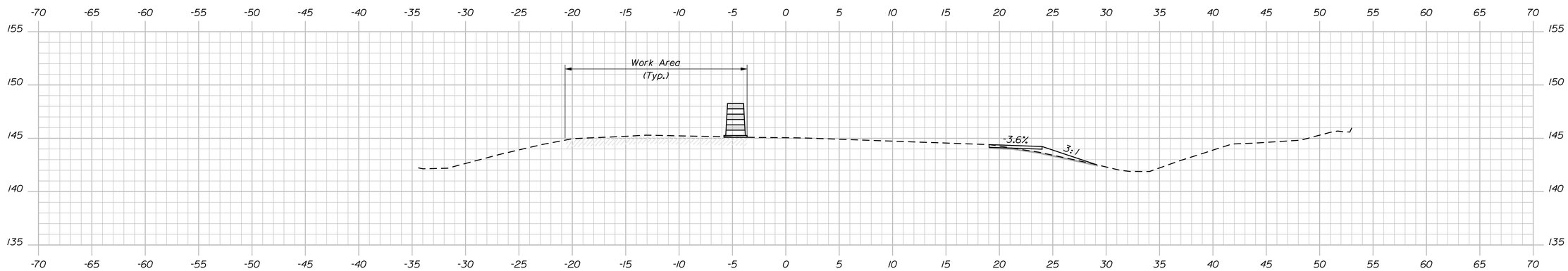

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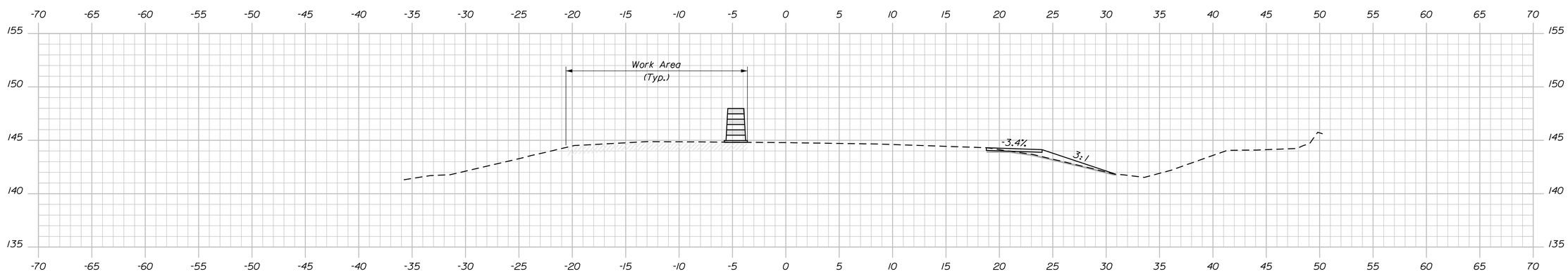

60+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

WIN 18792.00

BRIDGE NO. BRIDGE PLANS

SIGNATURE

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FIELD CHANGES			

PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

CROSS SECTIONS

SHEET NUMBER

6

OF 14

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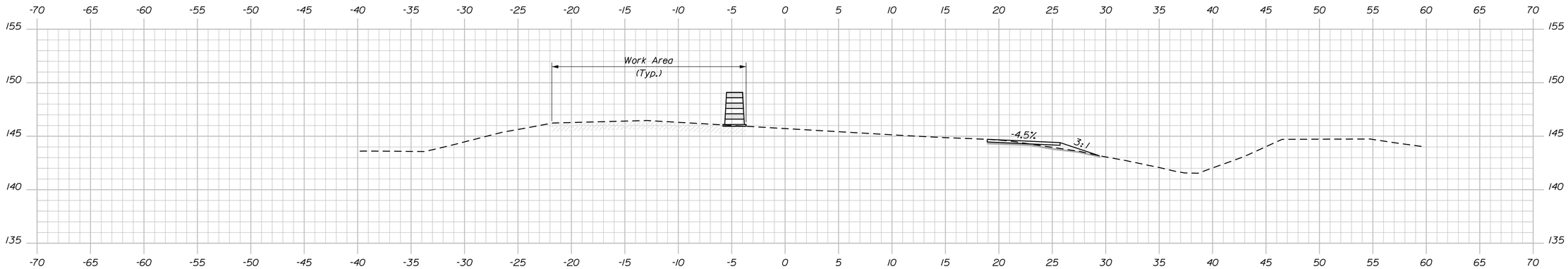

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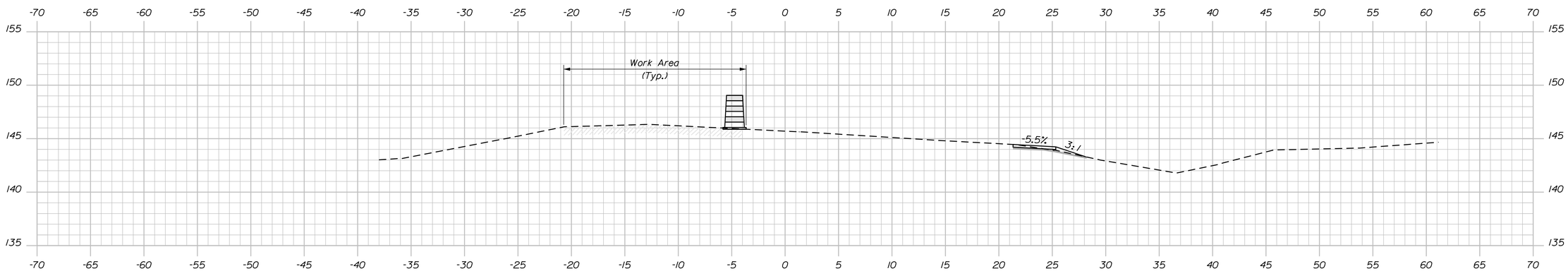

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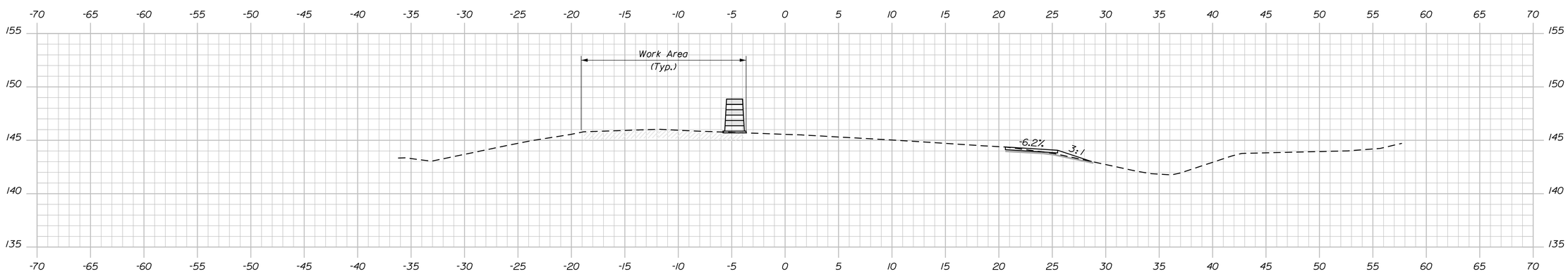

61+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

WIN 18792.00

BRIDGE NO. BRIDGE PLANS

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FIELD CHANGES			

PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

CROSS SECTIONS

SHEET NUMBER

7

OF 14

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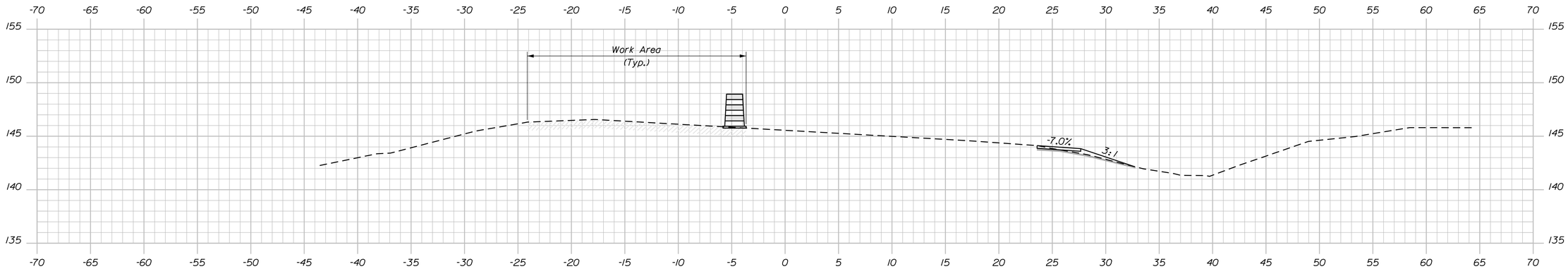

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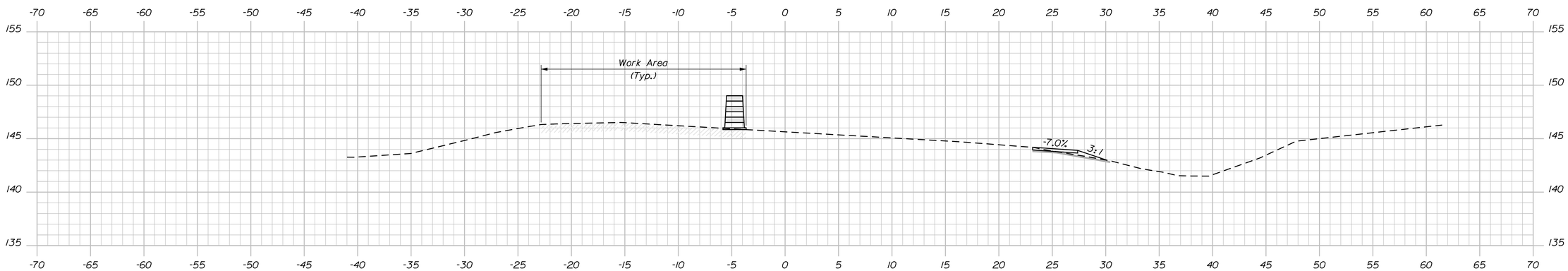

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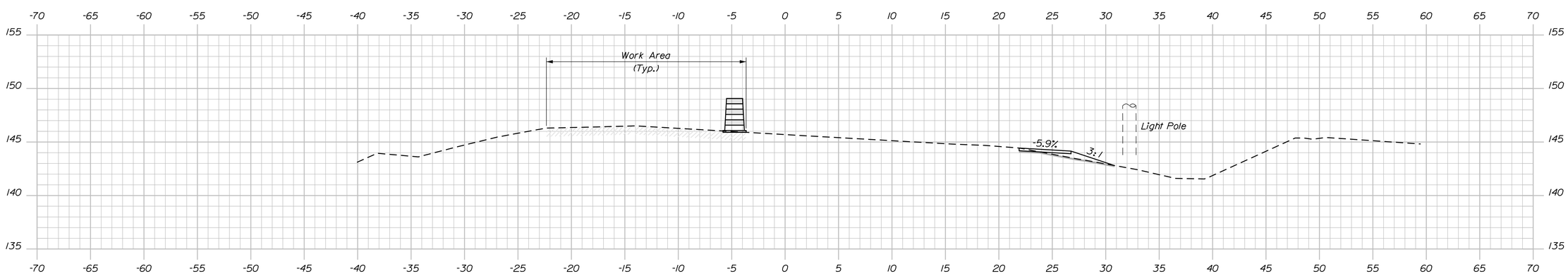

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

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FIELD CHANGES			

PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

CROSS SECTIONS

SHEET NUMBER

8

OF 14

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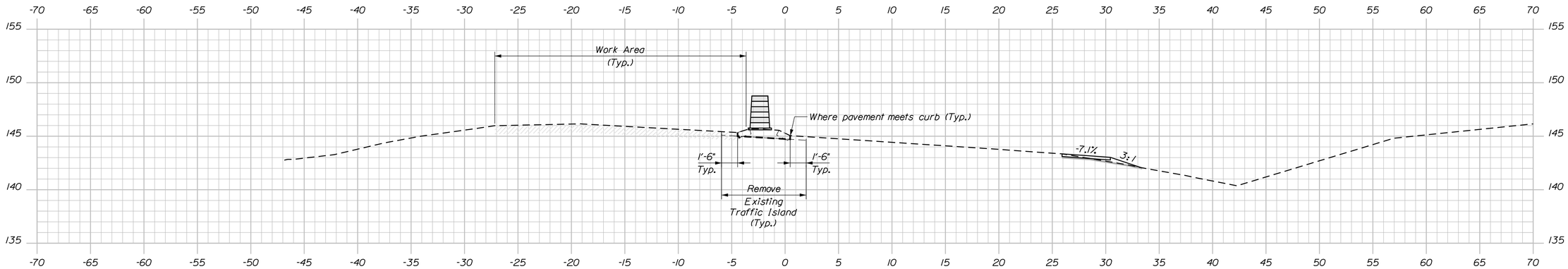

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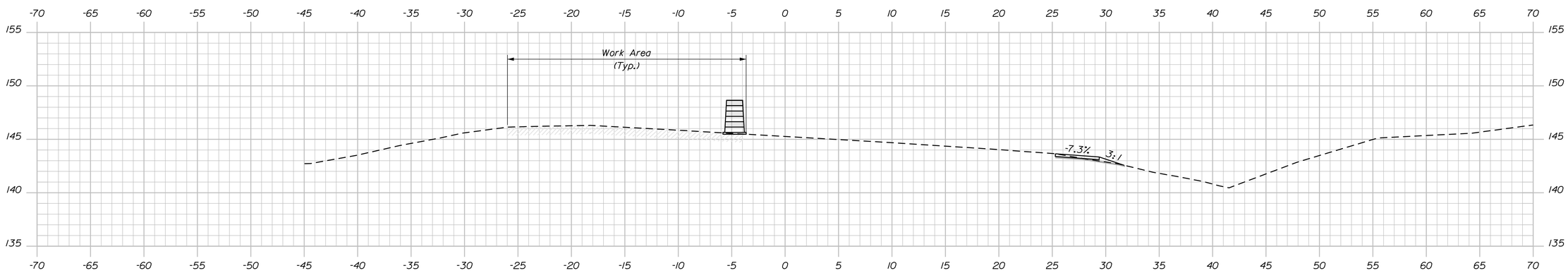

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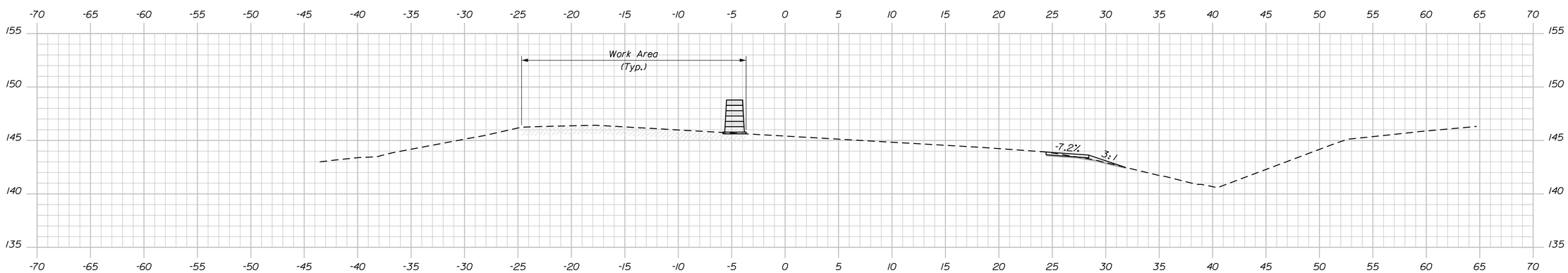

62+75.00

STATE OF MAINE
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NHPP-1879(200)

WIN 18792.00

BRIDGE NO. BRIDGE PLANS

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FIELD CHANGES			

PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

CROSS SECTIONS

SHEET NUMBER

9

OF 14

Sta. 62+75.00 to Sta. 63+25.00

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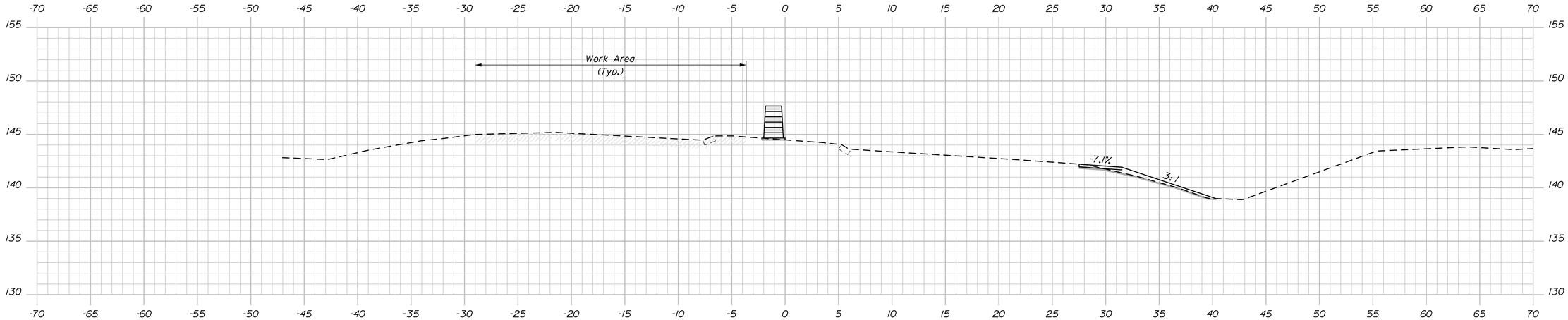

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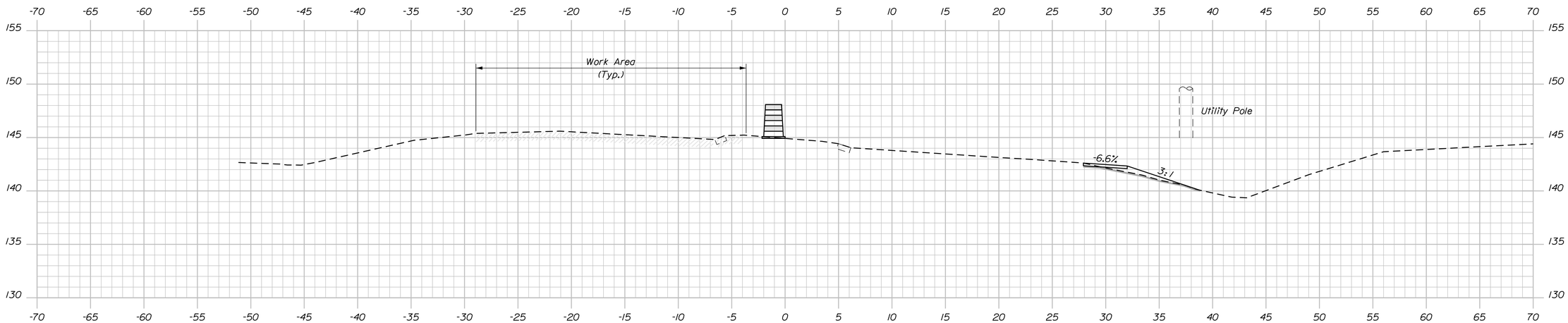

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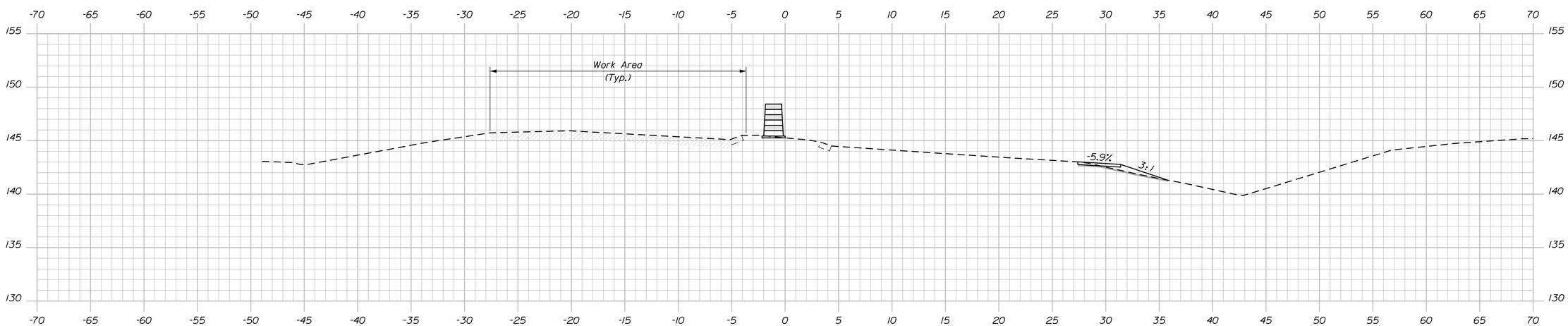

63+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

WIN 18792.00

BRIDGE NO. BRIDGE PLANS

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PROJ. MANAGER	M. Wight		
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PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

CROSS SECTIONS

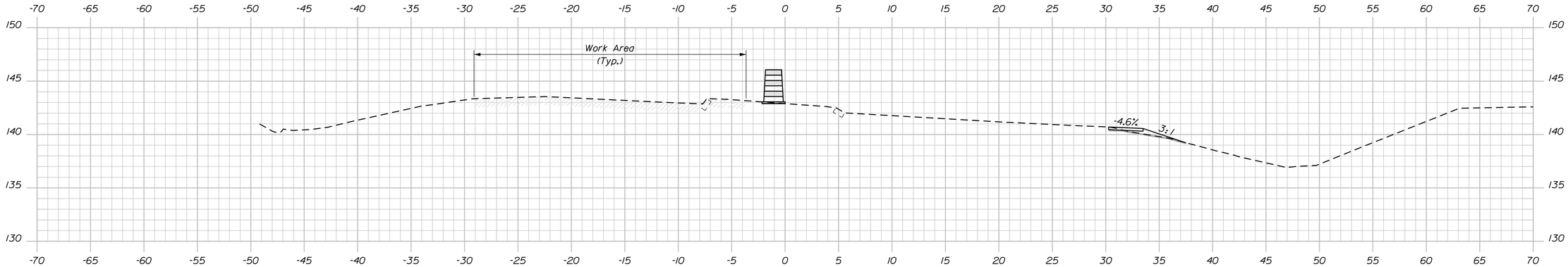
SHEET NUMBER

10

OF 14

Sta. 63+50.00 to Sta. 64+00.00

Filename: ...\MSTA\010_XSECT_63+50_006.dgn Division: BRIDGE Username: William.T.Rohman Date:6/13/2016



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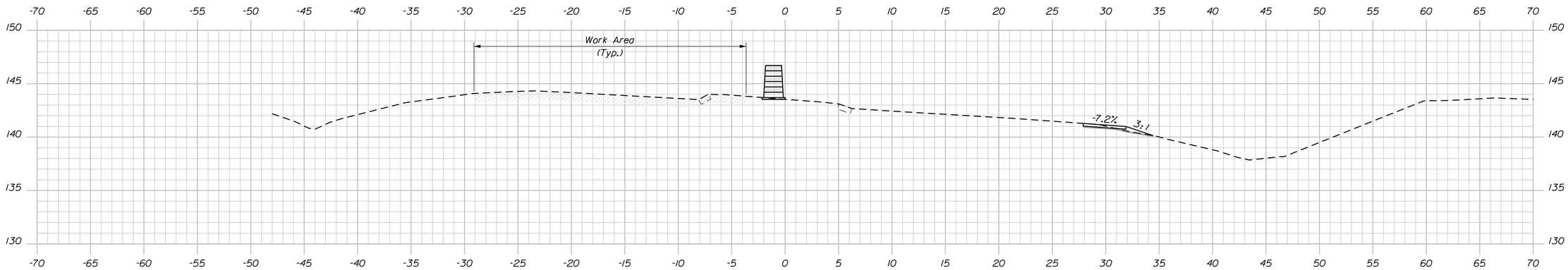

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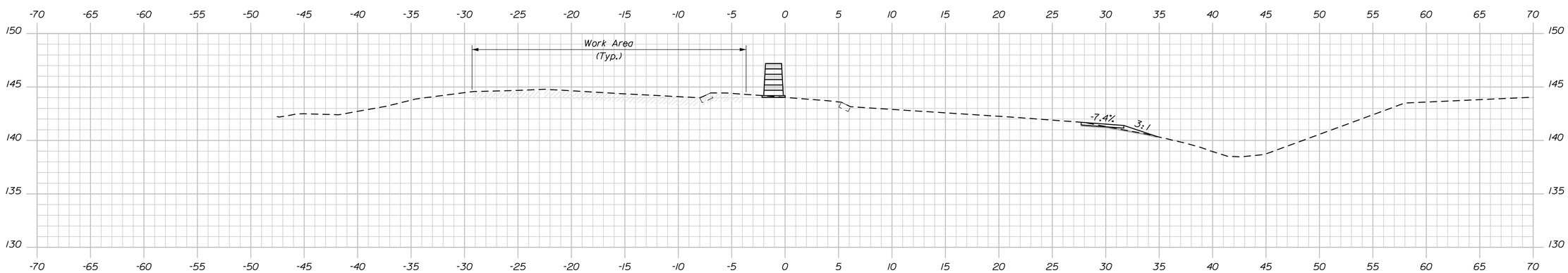


64+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

WIN 18792.00

BRIDGE NO. BRIDGE PLANS

SIGNATURE

P.E. NUMBER

DATE

		BY	DATE
PROJ. MANAGER	M. Wight	M. Wight	
DESIGN-DETAILED	M. Wight	D. Sullivan	MAY 2016
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

CROSS SECTIONS

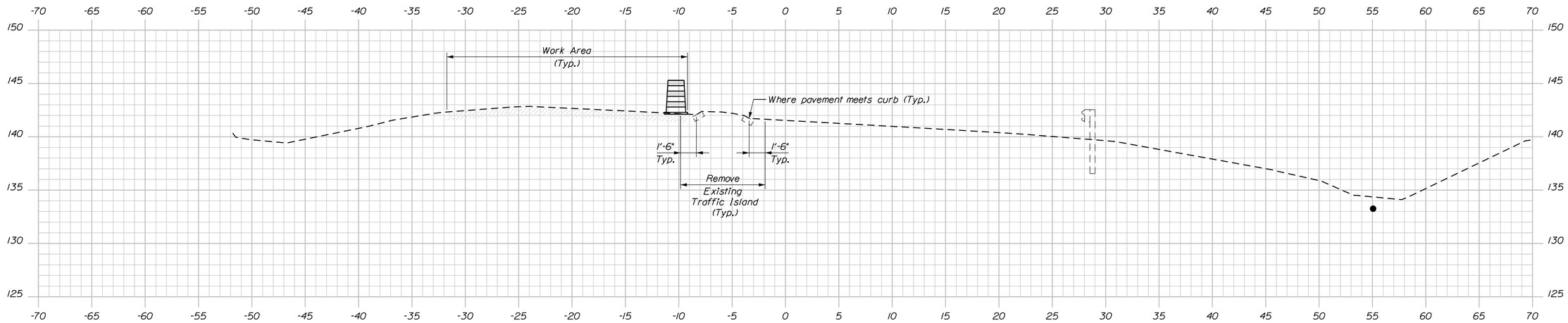
SHEET NUMBER

11

OF 14

Sta. 64+25.00 to Sta. 64+75.00

Filename: ...\MSTA\011_XSECT_64+25_007.dgn Division: BRIDGE Username: William.T.Rohman Date:6/13/2016



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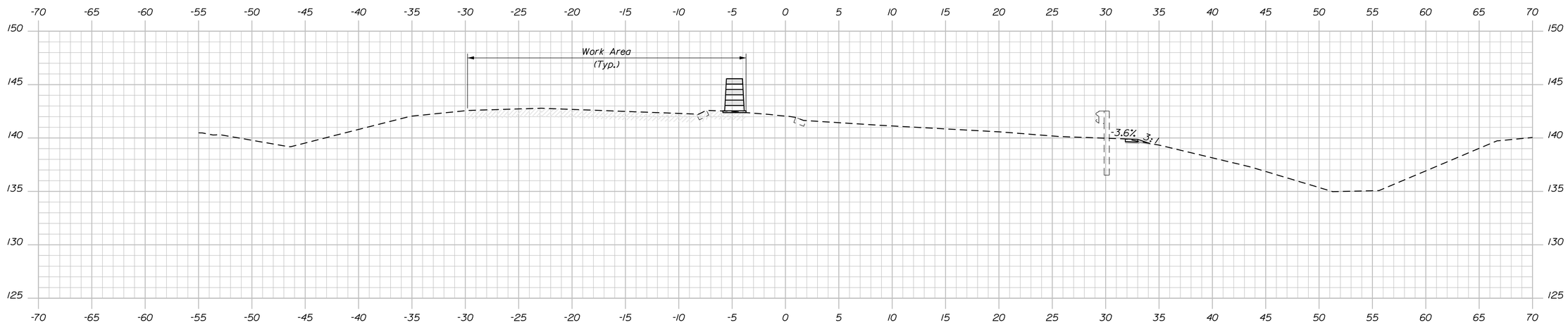

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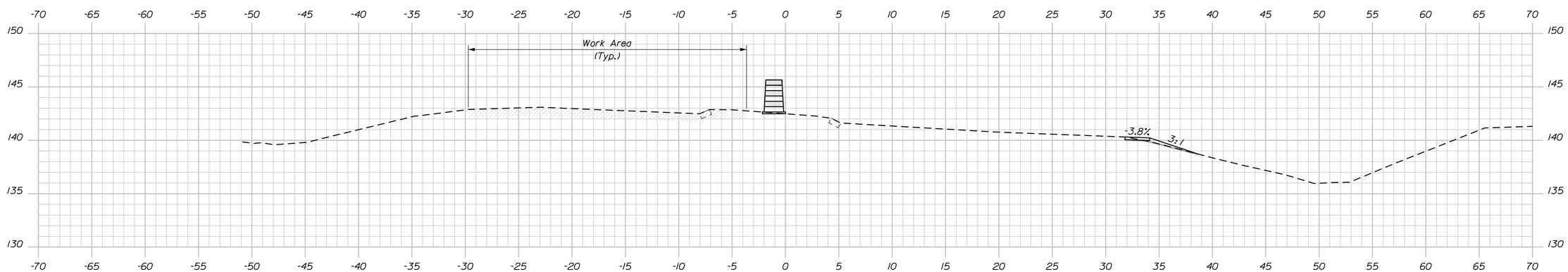


65+00.00

Sta. 65+00.00 to Sta. 65+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

WIN 18792.00

BRIDGE NO.

BRIDGE PLANS

		BY	DATE
PROJ. MANAGER	M. Wight		
DESIGN-DETAILED	M. Wight	D. Sullivan	MAY 2016
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

PROSPECT
ROCK SLOPE REMEDIATION
PROSPECT WALDO COUNTY

CROSS SECTIONS

SHEET NUMBER
12
OF 14

Filename: ...\MSTA\012_XSECT_65+00_008.dgn Division: BRIDGE Username: William.T.Rohman Date:6/13/2016

LEGEND:

◇ Designation approximate location and extent/limits of rock slope remediation area

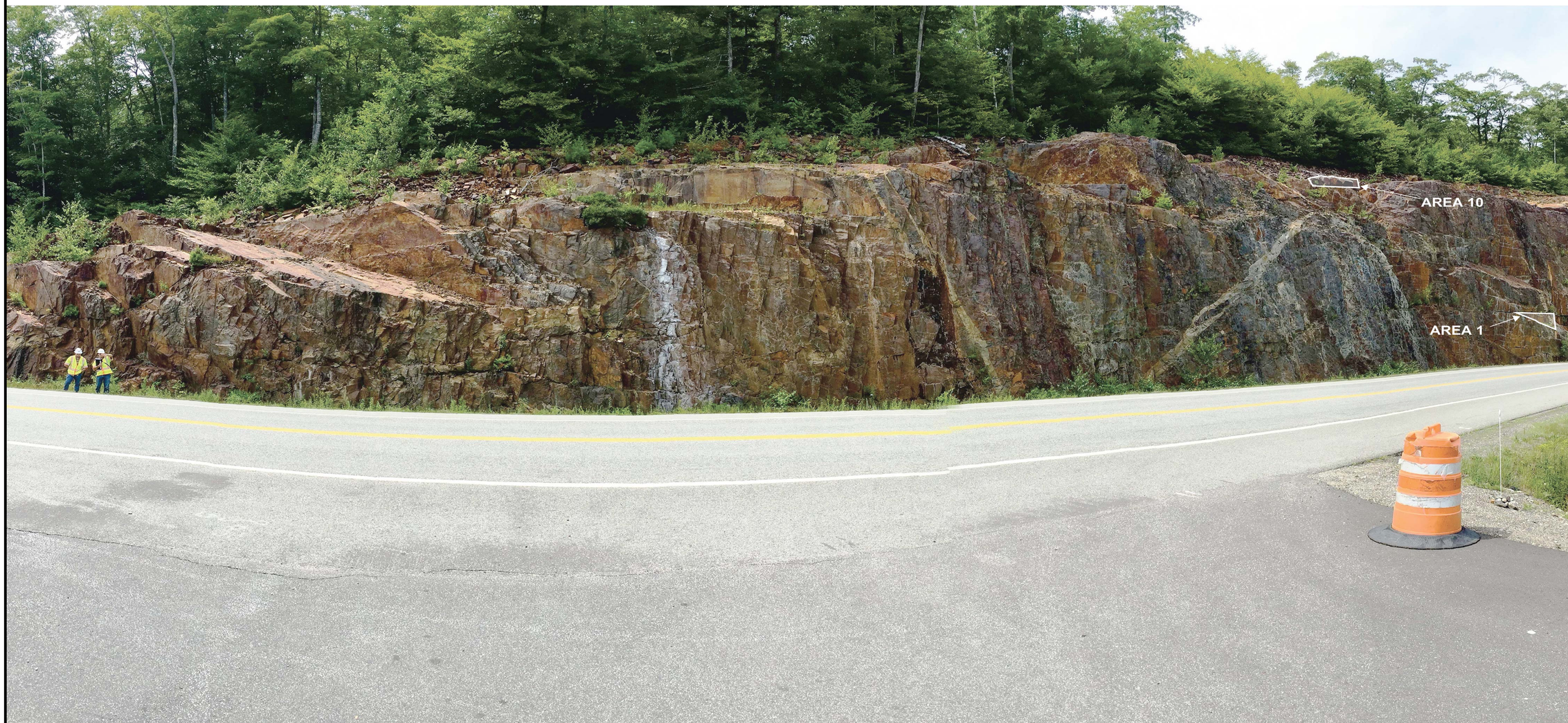
NOTES:

1. The digital panoramic photograph shown was taken on 29 July 2015 and may not represent current site and/or rock slope conditions. The digital panoramic photograph shown is distorted and is not to scale.

2. This plan is intended to be printed and viewed in color.

3. This plan is intended to show the relative limits of individual rock slope remediation areas. Refer to Figures 1 through 10 in the Contract Bid Book for more detailed rock slope remediation area specific photographs.

4. Refer to the Special Provisions, Figures 1 through 10, SK-1 and SK-2 in the Contract Bid Book for additional information on specific rock slope remediation measures.



HALEY ALDRICH

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

BRIDGE NO. WIN 18792.00

BRIDGE PLANS

STATE OF MAINE
WAYNE A. CHADBOURNE
No. 10620
PROFESSIONAL ENGINEER
LICENSED

PROJ. MANAGER	M. Wight	BY	DATE
DESIGN-DETAILED	M. Wight	D. Sullivan	MAY 2016
CHECKED-REVIEWED	D. Shaw	----	----
DESIGN2-DETAILED2	----	----	----
DESIGN3-DETAILED3	----	----	----
REVISIONS 1	----	----	----
REVISIONS 2	----	----	----
REVISIONS 3	----	----	----
REVISIONS 4	----	----	----
FIELD CHANGES	----	----	----

SIGNATURE
10620
P.E. NUMBER
6/13/2016
DATE

PROSPECT
ROCK SLOPE REMEDIATION
WALDO COUNTY

PROSPECT
ROCK SLOPE REMEDIATION
AREA LOCATION PLAN SOUTH

SHEET NUMBER
13
OF 14

Filename: ...\013_Abutment_Rock_Slope.dgn Division: BRIDGE Username: William.T.Rohman Date:6/13/2016

LEGEND:

◇ Designation approximate location and extent/limits of rock slope remediation area

NOTES:

1. The digital panoramic photograph shown was taken on 29 July 2015 and may not represent current site and/or rock slope conditions. The digital panoramic photograph shown is distorted and is not to scale.

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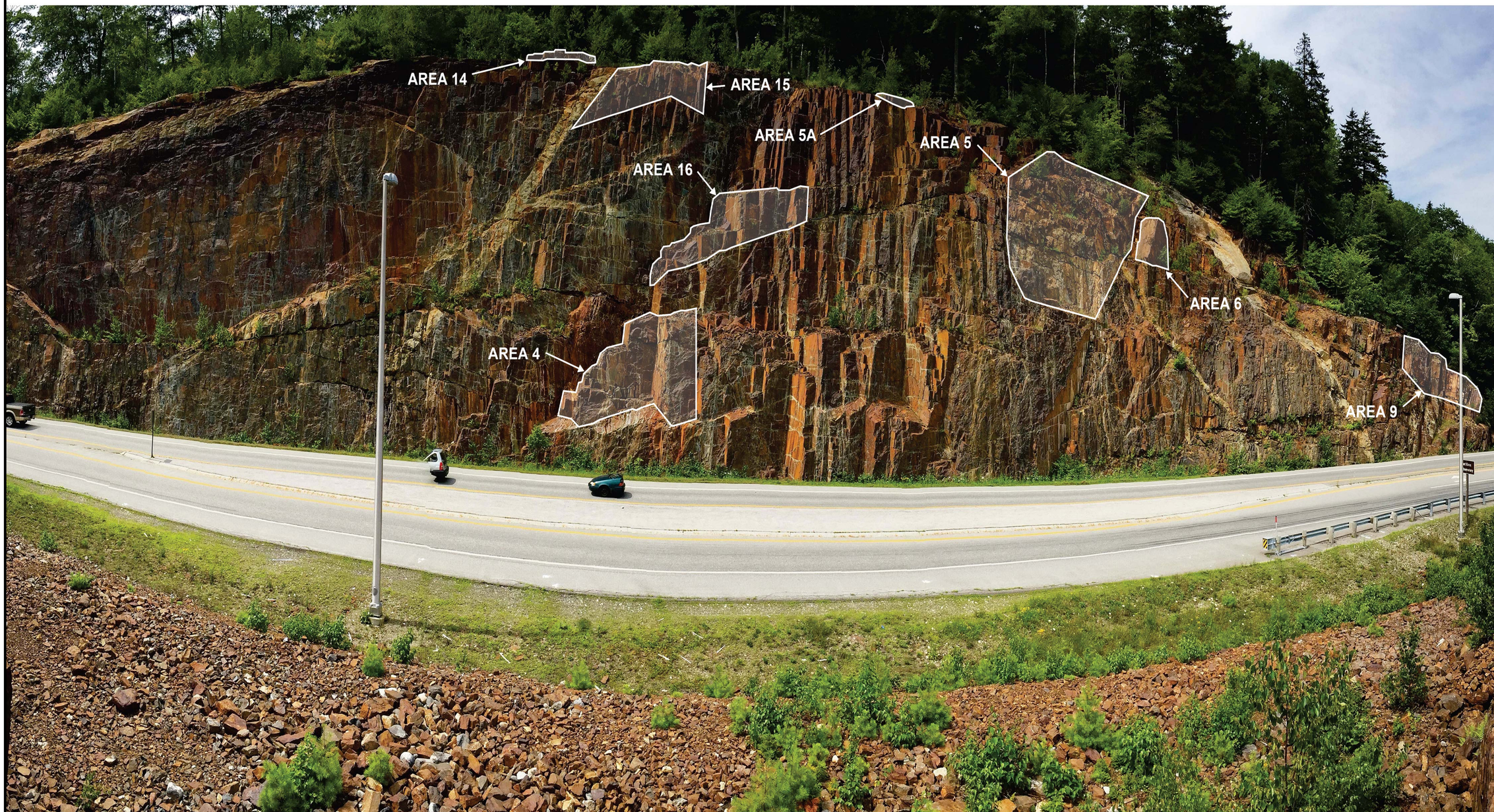

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

NHPP-1879(200)

BRIDGE NO. WIN 18792.00 BRIDGE PLANS

STATE OF MAINE WAYNE A. CHADBOURNE No. 10620 LICENSED PROFESSIONAL ENGINEER

PROJ. MANAGER	M. Wight	BY	DATE
DESIGN-DETAILED	M. Wight	D. Sullivan	MAY 2016
CHECKED-REVIEWED	D. Shaw	----	----
DESIGN2-DETAILED2	----	----	----
DESIGN3-DETAILED3	----	----	----
REVISIONS 1	----	----	----
REVISIONS 2	----	----	----
REVISIONS 3	----	----	----
REVISIONS 4	----	----	----
FIELD CHANGES	----	----	----

SIGNATURE
10620
P.E. NUMBER
6/15/2016
DATE

PROSPECT
ROCK SLOPE REMEDIATION
WALDO COUNTY

ROCK SLOPE REMEDIATION AREA LOCATION PLAN NORTH

HALEY ALDRICH

SHEET NUMBER
14
OF 14

Filename: ...\014_Abutment_Rock_Slope.dgn Division: BRIDGE Username: William.T.Rohman Date:6/13/2016