STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

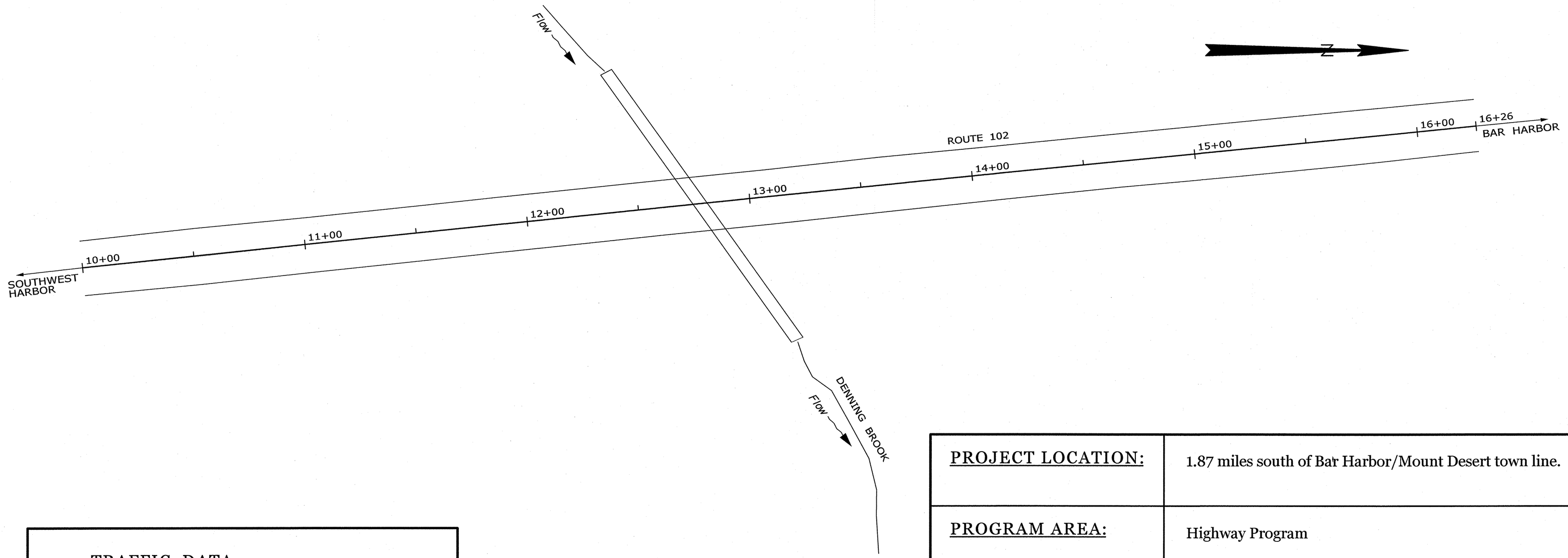
PLAN LEGEND

Town, County, State
Property Lines
R/W Lines-Existing
R/W Lines-Proposed
Culvert-Existing
Culvert Proposed
Curbing Existing Proposed
Type 1
Type 3
Type 5
Outline of Bodies of Water
Ledge
Buildings
Trees Conifer Deciduous
Tree Line
Clearing Limit Line CLL
Centerline-Existing
Centerline-Proposed 10+00
Travelway-Existing
Travelway-Proposed
Railroad
Catch Basins Existing Proposed
Manholes Existing Proposed
Proposed Underdrain
Proposed Ditch
Existing Ditch
Utility Poles Existing Proposed
Fire Hydrants Existing Proposed
Existing Water Line W
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

MOUNT DESERT
HANCOCK COUNTY
ROUTE 102
STATE PROJECT NO. 019337.00
PROJECT LENGTH: 0.01 MILES

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2
Estimated Quantities & Notes	3
Plan / Profile	4
Cross - Sections	5
Right of Way Map	6



TRAFFIC DATA

Current (2013) AADT 7320
Design Speed (mph) 55
Functional Class: ..... MAJOR COLLECTOR
Highway Corridor Priority: 3

PROJECT LOCATION:	1.87 miles south of Bar Harbor/Mount Desert town line.
PROGRAM AREA:	Highway Program
SCOPE OF WORK:	Large Culvert Rehabilitation, Invert Lining

WIN 019337.00 019337.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED
COMMISSIONER: DATE 5/6/16
CHIEF ENGINEER: 5-6-16

STATE OF MAINE John R. Dean 9094 LICENSED PROFESSIONAL ENGINEER

SIGNATURE
9094
P.E. NUMBER
5/5/16
DATE

PROJECT INFORMATION

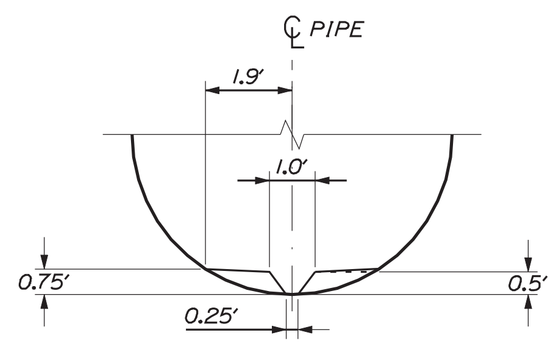
PROGRAM	HIGHWAY
PROJECT MANAGER	R. BARROWS
DESIGNER	J. MALMAN
CONSTRUCTION MANAGER	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

MOUNT DESERT
ROUTE 102

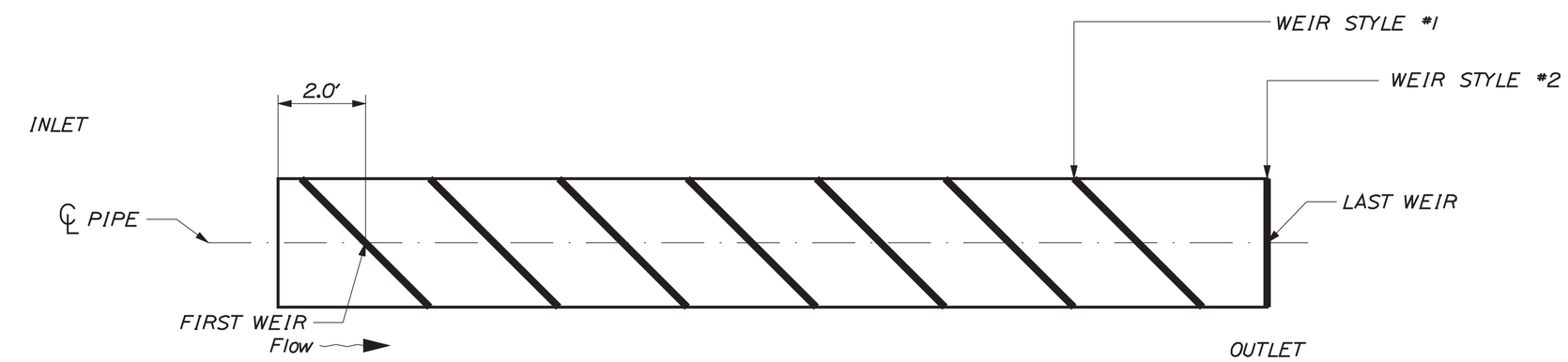
TITLE SHEET

SHEET NUMBER
1
OF 6

Filename: ...\highway\msta\001_Title_001.dgn Division: HIGHWAY Username: Randall.Barrows Date:5/5/2016



OUTLET WEIR STYLE #2

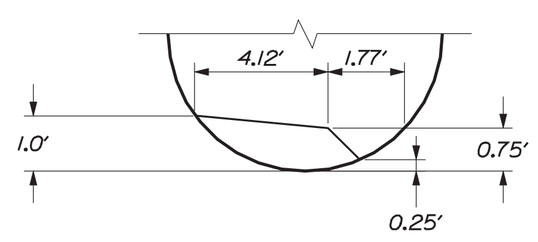


PLAN VIEW

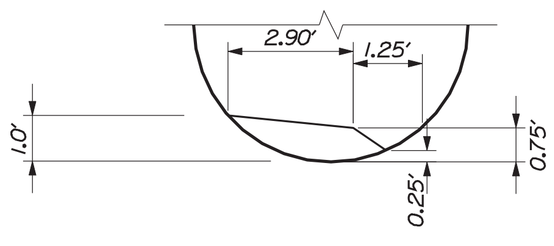
NOTES: VERTICAL INNER DIAMETER = 7.5'
HORIZONTAL INNER DIAMETER = 6.5'

FIRST WEIR SET 2' FROM INLET
6 WEIRS SET EQUIDISTANT BETWEEN FIRST WEIR AND LAST WEIR
LAST WEIR SET AT OUTLET

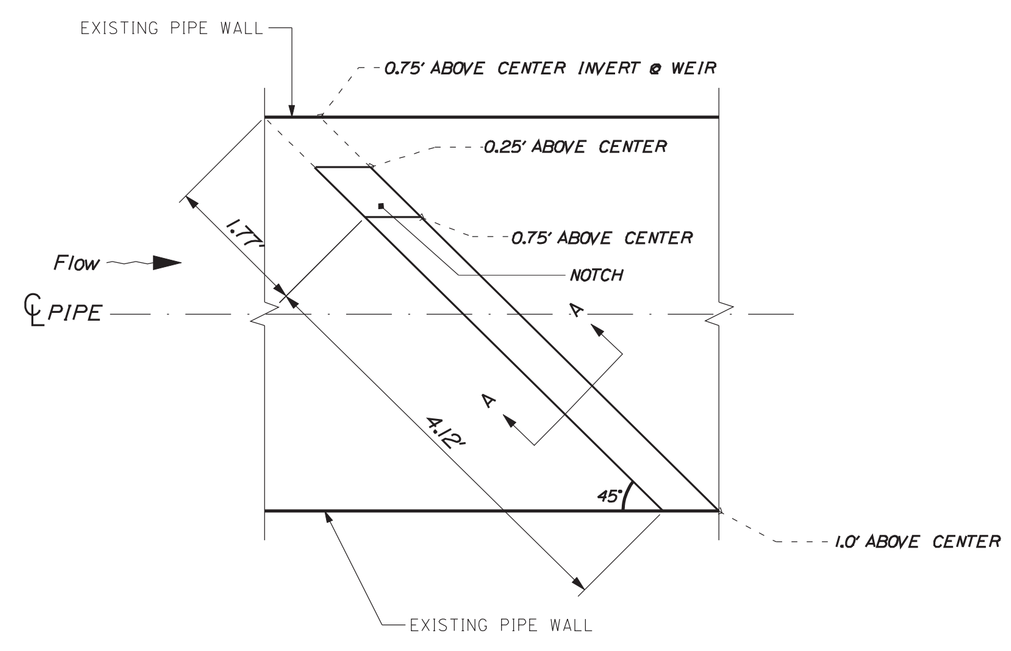
INVERT LINE SHALL EXTEND VERTICALLY UP CULVERT WALLS AS REQUIRED TO ADEQUATELY PROVIDE CONNECTION BETWEEN THE INVERT LINE AND THE CULVERT. THIS IS ESTIMATED AT 2.5-3' BASED UPON FIELD EXAMINATION.



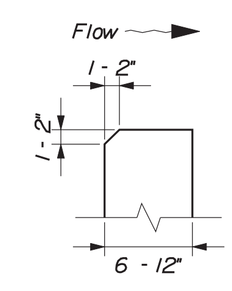
WEIR STYLE #1
TRUE FRONT (LT TO RT WEIR) VIEW
45 DEGREE SKEW CUT THRU PIPE



WEIR STYLE #1
PROJECTED FRONT VIEW
(CRT) TO PIPE AXIS



PLAN VIEW OF WEIR STYLE #1



SECTION A - A

NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019337.00

WIN 019337.00

HIGHWAY PLANS

PROJ. MANAGER	R. BARROWS	BY	DATE
DESIGN-DETAILED	J. MALMAN		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

MOUNT DESERT
ROUTE 102

TYPICAL SECTIONS

SHEET NUMBER
2
OF 6

Filename: ...\mslo\002_Typical_002.dgn Division: HIGHWAY Username: Randall.Barrows Date:5/5/2016

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
509.73	COMPOSITE INVERT LINING	1	L.S.
511.07	COFFERDAM - UPSTREAM	1	L.S.
511.07	COFFERDAM DOWNSTREAM	1	L.S.
610.08	PLAIN RIP RAP	20	C.Y.
620.58	EROSION CONTROL GEOTEXTILE	20	S.Y.
652.33	DRUM	10	EA.
652.34	CONE	30	EA.
652.35	CONSTRUCTION SIGNS	226	S.F.
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	21	C.D.
652.38	FLAGGER	40	HR.
652.75	TEMPORARY SOIL EROSION & WATER POLLUTION CONTROL	1	L.S.
652.10	MOBILIZATION	1	L.S.

CONSTRUCTION NOTES

ITEM 509.73 - COMPOSITE INVERT LINING

This item shall include all work and materials necessary to complete the invert lining. This includes, but is not limited to, dewatering and cleaning the existing culvert, furnishing and installing the invert liner according to Special Provision 502 Culvert Invert Lining. The fabrication and installation of the weirs inside the pipe per the typical shall be incidental to Item 509.73.

All work necessary to access the inlet and outlet of the pipe location will be incidental to Item 509.73. Upon completion of invert lining the culvert, the contractor will restore all slope areas disturbed to the satisfaction of the Maine DOT.

Composite invert lining shall have a roughened surface in order to facilitate fish passage.

WIN 19337.00 Sta. 12+75 = 147 +/- LF Invert Line

ITEM 511.07 - COFFERDAM

After constructing one rock weir, the cofferdams shall be breached in order to determine the impact of the weir. This work shall be completed in the presence of a MaineDOT designated Environmental official. If it is determined that a second weir is needed, the cofferdam shall be repaired in order to allow its construction. The breaching of the cofferdam is incidental to the Cofferdam items.

ITEM 610.08 - PLAIN RIP RAP

This item shall be used to create rock weirs per the plans. The rock weir locations shall be field determined in the presence of a MaineDOT designated Environmental official.

GENERAL NOTES

1. The Contractor will perform field measurements before fabrication to ensure the invert liner will fit the current pipe conditions.

2. All waste material not used on the project shall be disposed of off the project in waste areas reviewed by the Resident.

3. Any damage to the slopes caused by the Contractor's equipment, personnel, or operation shall be repaired to the satisfaction of the Resident. All work, equipment and materials required to make repairs shall be at the contractor's expense.

4. The following shall be incidental to Item 509.73.
a. Any cutting of existing culverts and or connectors necessary to install invert liner.
b. All ditching at pipe ends.
c. Furnishing, placing, grading, and compacting of any new gravel and/or fill material in order to bring failing slope at inlet and outlet to rip rap grade.
d. All work necessary to install invert liner including cleaning the existing culvert.
e. Any necessary clearing of brush and small trees at culvert ends.

5. "Undetermined Locations" shall be determined by the Resident.

6. Stations referenced are approximate.

7. Dredge Material (See MaineDOT Standard Specification 101.2) is regulated as a Special Waste. Fifty cubic yards or less of Dredge Material Beneficially used in the area adjacent to and draining into the dredged water body is exempt from Beneficial Use Permits. The Contractor shall ensure that Dredge Material is placed into the fill areas specified by the MaineDOT. No more than fifty cubic yards (38 cubic meters) of Dredge Material may be excavated without authorization from the Resident. Any Dredge Material not Beneficially Used (excess Dredge Material) shall be disposed of at a landfill licensed by the Maine Department of Environmental Protection to accept Special Waste. The Contractor shall be responsible for making all necessary arrangements for dewatering and proper disposal of the Dredge Material, including any additional laboratory testing, in accordance with the landfill's license. The Contractor shall provide documentation to the Resident that any such Dredge Material was disposed of as specified.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019337.00

WIN 019337.00

HIGHWAY PLANS

		BY	DATE
PROJ. MANAGER	R. BARROWS		
DESIGN-DETAILED	J. MALMAN		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

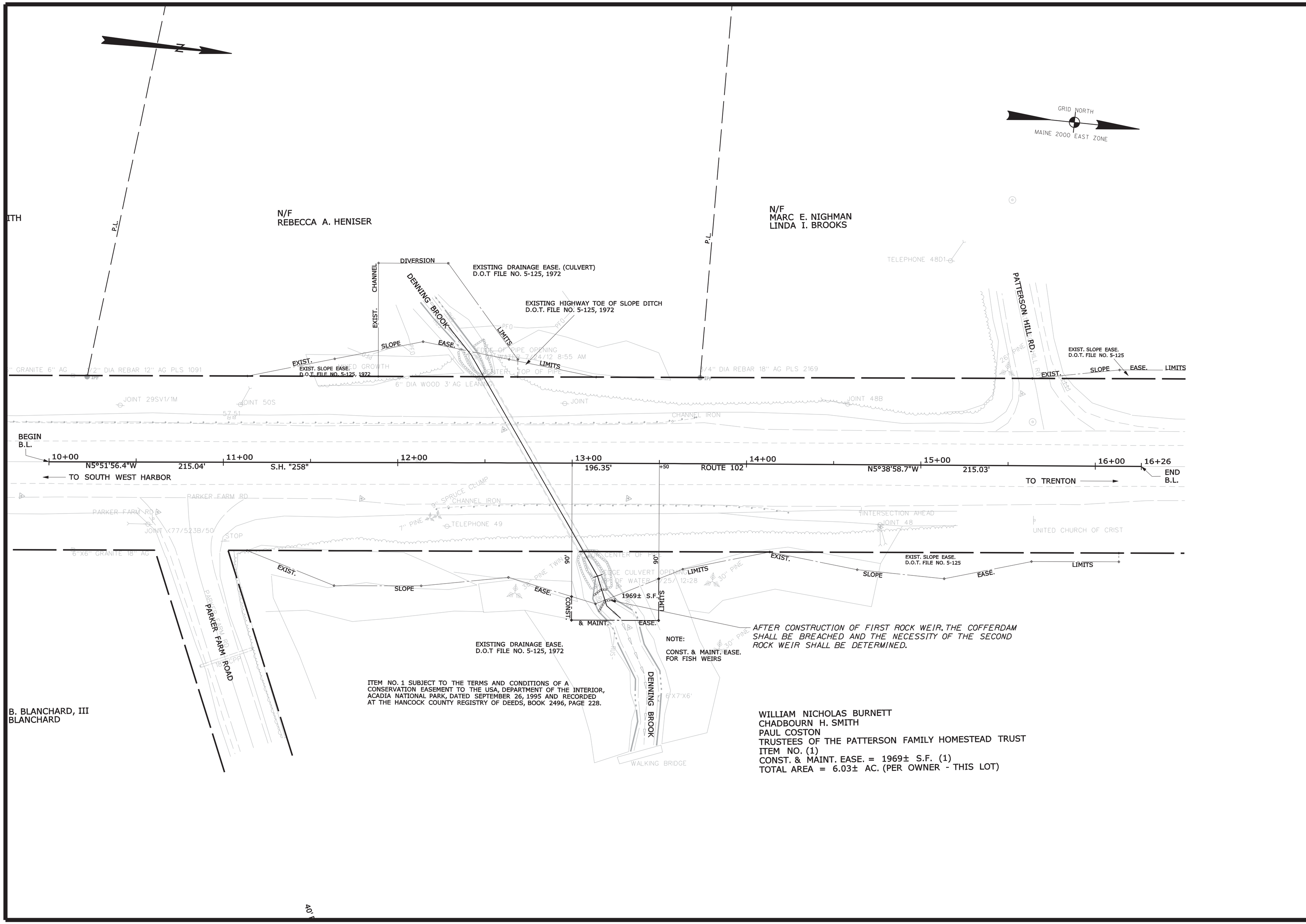
DATE

MOUNT DESERT
ROUTE 102

ESTIMATED QTY & NOTES

SHEET NUMBER
3
OF 6

Filename: ...\msta\003_Estimate_003.dgn Division: HIGHWAY Username: Randall.Barrows Date:5/5/2016



STA. 10+00.00 TO STA. 16+26.42

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019337.00

WIN 019337.00

HIGHWAY PLANS

	BY	DATE
PROJ. MANAGER	R. BARROWS	
DESIGN-DETAILED	J. MALMAN	
CHECKED-REVIEWED		
DESIGN2-DETAILED2		
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

SIGNATURE

P.E. NUMBER

DATE

MOUNT DESERT
ROUTE 102

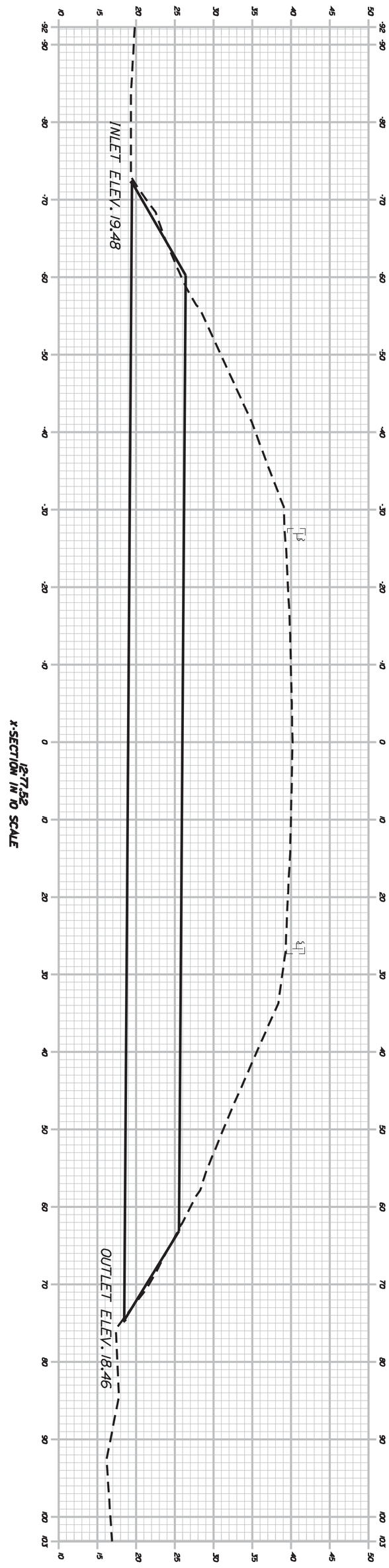
PLANS

SHEET NUMBER

4

OF 6

Filename: ...\msla\004_HDPLAN_004.DGN Division: HIGHWAY Username: Randall.Barrows Date:5/5/2016



PROJ. MANAGER	R. BARROWS	BY	DATE
DESIGN-DETAILED	J. MAILMAN		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

MOUNT DESERT ROUTE 102

CROSS SECTIONS

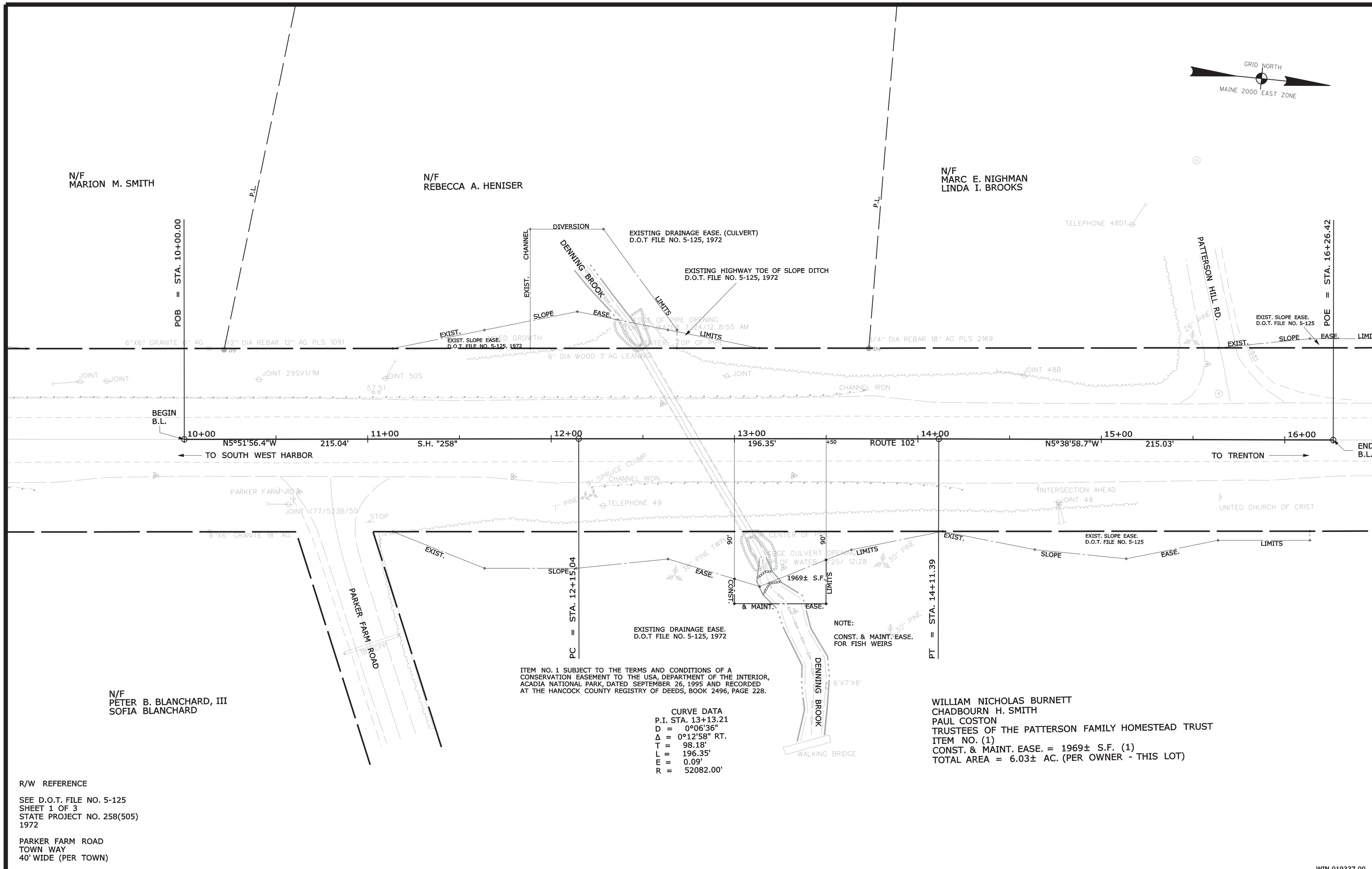
SHEET NUMBER 5 OF 6

Sta. 12+77.52 to Sta. 12+77.52

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019337.00

WIN
019337.00



ITEM NO. 1 SUBJECT TO THE TERMS AND CONDITIONS OF A CONSERVATION EASEMENT TO THE USA, DEPARTMENT OF THE INTERIOR, ACADIA NATIONAL PARK, DATED SEPTEMBER 26, 1995 AND RECORDED AT THE HANCOCK COUNTY REGISTRY OF DEEDS, BOOK 2496, PAGE 228.

CURVE DATA
P.I. STA. 13+13.21
D = 0°06'36"
Δ = 0°12'58" RT.
T = 98.18'
L = 196.35'
E = 0.09'
R = 52082.00'

WILLIAM NICHOLAS BURNETT
CHADBOURN H. SMITH
PAUL COSTON
TRUSTEES OF THE PATTERSON FAMILY HOMESTEAD TRUST
ITEM NO. (1)
CONST. & MAINT. EASE. = 1969± S.F. (1)
TOTAL AREA = 6.03± AC. (PER OWNER - THIS LOT)

R/W REFERENCE

SEE D.O.T. FILE NO. 5-125
SHEET 1 OF 3
STATE PROJECT NO. 258(505)
1972

PARKER FARM ROAD
TOWN WAY
40' WIDE (PER TOWN)

WIN 019337.00

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.

SYMBOLS
- IP or ● IPF (IRON PIPE or PIN FOUND)
- ☐ S.T. (SEPTIC TANK)
- ⊡ (ROW MONUMENT)
- ⊡ (TRAVERSE POINT)
- W WATER LINE
- G GAS LINE
- E ELECTRIC LINE
- T TELEPHONE LINE
- SEWER LINE
- WELL (WELL)
- GRADING LIMIT LINE
- CONSTRUCTION LIMIT LINE
- PROPERTY LINE PL
- LIMITS OF WROUGHT PORTION (L.O.W.P.)
- EXISTING RIGHT OF WAY
- NEW RIGHT OF WAY
- NEW ROW WITHIN EXIST. ROW
- CONTROL OF ACCESS

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	VDP	
PROP. LINES	BDM	
AREAS	BDM	

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016
MOUNT DESERT
RIGHT OF WAY MAP

REVISIONS			
NO.	DATE	DESCRIPTION	BY

PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD

NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE

DAVID BERNHARDT
COMMISSIONER
JOYCE NOEL TAYLOR
CHIEF ENGINEER
DATE

STATE HIGHWAY "258"
ROUTE 102
MOUNT DESERT HANCOCK COUNTY
STATE PROJECT NO. 19337.00

JULY 2013 | RIGHT-OF-WAY MAP | D.O.T. FILE NO. 5-295
SCALE 1" = 25' | SHEET 1 OF 1

SHEET NUMBER
1
OF 1

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: HIGHWAY Username: Randall.Barrows Date:5/5/2016