STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

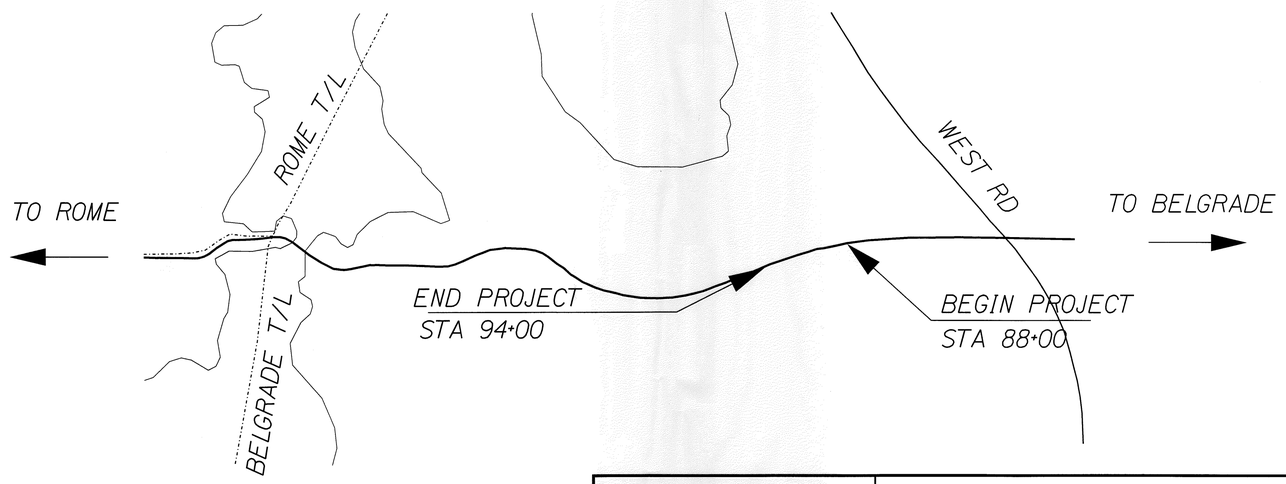
PLAN LEGEND

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
Existing San. Sewer
Existing San. Sewer Manhole
Guardrail-Existing
Guardrail-Proposed
Guardrail-Cable, Other

BELGRADE
KENNEBEC COUNTY
CASTLE ISLAND ROAD
STATE PROJECT 019265.00
PROJECT LENGTH : 0.11 MILES

INDEX OF SHEETS

Description	Sheet No.
Title Sheet	1
Typical Sections	2
Estimated Quantities	3
Construction Notes	3
Plan / Profile	4
Cross - Sections	5-8
Detour Plan	9
Right of Way Map	10



TRAFFIC DATA

Current (2012) AADT 1592
Design Speed (mph) 45
Functional Class: .....Minor Collector

PROJECT LOCATION:	CASTLE ISLAND ROAD 0.40 MILES EAST OF THE BELGRADE / ROME TOWN LINE
PROGRAM AREA:	CRITICAL INFRASTRUCTURE PROGRAM REGION 2
SCOPE OF WORK:	STRUT REPLACEMENT

WIN 019265.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED — DATE 1/15/13
COMMISSIONER:
CHIEF ENGINEER: 1/15/13

PROJECT INFORMATION
PROGRAM: HIGHWAY
PROJECT MANAGER: SHAWN SMITH
DESIGNER: DEAN ROWLANDS
CONSULTANT:
PROJECT RESIDENT:
CONTRACTOR:
PROJECT COMPLETION DATE:

SIGNATURE 8580
P.E. NUMBER
1-9-13
DATE

BELGRADE
CASTLE ISLAND ROAD
TITLE SHEET

SHEET NUMBER
1
OF 10

Filename: ...\00\HIGHWAY\MSTA\001_Title.dgn Division: HIGHWAY Username: randall.barrows Date:1/7/2013

NOTE:

1. THE PAVEMENT, BASE AND SUBBASE DEPTHS AS SHOWN ON THE PLANS ARE INTENDED TO BE NOMINAL.

2. WHEN SUPERELEVATION EXCEEDS THE SLOPE OF THE LOW SIDE SHOULDER, THE LOW SIDE SHOULDER SHALL HAVE THE SAME SLOPE AS THE TRAVELWAY.

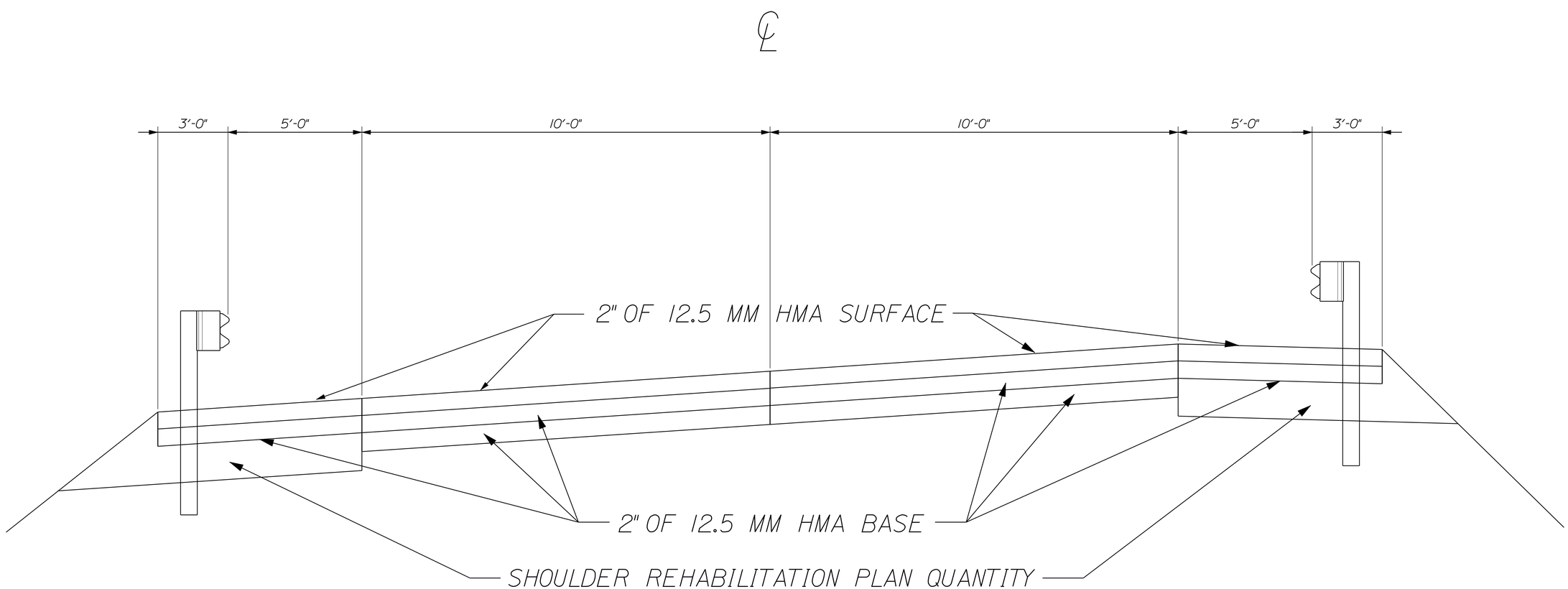
3. CROWNS FOR BOTH NORMAL AND SUPERELEVATION SECTIONS FOR ALL COURSES OF SUBBASE AND PAVEMENT SHALL BE STRAIGHT.

4. THE GRAVEL QUANTITY CALCULATION IS BASED ON A 2" LOAM OR DIRTY BORROW DEPTH. THE ACTUAL DEPTH MAY VARY. SEE THE GENERAL NOTES.

5. THE ALGEBRAIC DIFFERENCE BETWEEN THE SHOULDER AND TRAVEWAY CROSS SLOPES "ROLLOVER" SHALL NOT EXCEED 8%.

6. THE STATIONING SHOWN UNDER EACH TYPICAL IS APPROXIMATE.

CULVERT REPLACEMENT W/ GUARDRAIL



NOT TO SCALE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019265.00

PIN
019265.00

HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	B. Estes	D. Rowlands	
CHECKED-REVIEWED	------	------	------
DESIGN2-DETAILED2	------	------	------
DESIGN3-DETAILED3	------	------	------
REVISIONS 1	------	------	------
REVISIONS 2	------	------	------
REVISIONS 3	------	------	------
REVISIONS 4	------	------	------
FIELD CHANGES	------	------	------

SIGNATURE

P.E. NUMBER

DATE

BELGRADE
CASTLE ISLAND ROAD

TYPICAL SECTIONS

SHEET NUMBER
2
OF 10

Filename: ...\highway\rnsta\002_Typical.dgn Division: HIGHWAY Username: randall.barrows Date:8/1/2012

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203.242	DIRTY BORROW	5	CY
204.41	REHAB OF EXISTING SHOULDER	30	SY
403.208	HOT MIX ASPHALT 12.5 MM SURFACE	48	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	80	T
409.15	TACK COAT APPLIED	5.0	GAL
504.07	CONCRETE PIPE TIES (GROUP)	4	GRP
511.07	COFFERDAM UPSTREAM	1	LS
511.07	COFFERDAM DOWNSTREAM	1	LS
527.303	ENERGY ABSORBING SYSTEM (ET-PLUS)	4	EA
603.47	60" RCP CLASS IV	100	LF
606.23	GR TY 3C - SINGLE RAIL	275	LF
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.08	PLAIN RIPRAP	20	CY
618.1401	SEEDING METHOD # 2 - PLAN QUANTITY	0.5	UN
619.1201	MULCH - PLAN QUANTITY	0.5	UN
620.58	EROSION CONTROL GEOTEXTILE	40	SY
652.33	DRUM	10	EA
652.34	CONE	30	EA
652.35	CONSTRUCTION SIGNS	186	SF
652.36	MAINT OF TRAFFIC CONTROL DEVICES	21	CD
652.38	FLAGGER	100	MH
656.75	TEMP. SOIL EROSION AND WATER POLLUTION CONTROL PLAN	1	LS
659.10	MOBILIZATION	1	LS

GENERAL NOTES

1. All waste material not used on the project shall be disposed of in acceptable waste areas.
2. If foundation material is required under culverts, it shall meet the requirements for granular borrow - underwater backfill and will be incidental to the pipe.
3. The following shall be incidental to the 603 item:
   a. Any cutting of existing culverts and or connectors necessary to install new culvert replacements or extensions.
   b. All pipe excavations including any cutting and removal of pavement.
   c. Furnishing, placing, grading, and compacting of any new gravel and/or fill material. This also includes Granular Borrow used under pipes and for temporary detours to maintain traffic during pipe installation. Excavation of maintenance or traffic material is also incidental.
   d. Granular Borrow under the pipe shall meet the requirements for Underwater Backfill and will be incidental to the pipe.
4. Dirty borrow has been estimated for all disturbed slope areas other than lawn areas. Actual placement of the dirty borrow shall be as noted on the plans or designated by the Resident.
5. Dirty borrow shall be placed to a nomimal depth of 2 inches unless otherwise noted or directed.
6. Any damage to the slopes caused by the contractor's equipment, personel, 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.
7. Stations referenced are approximate.
8. All work shall be done in accordance with the Maine Department of Transportation's Best Management Practices for Erosion & Sedimentation Control, February, 2008.

CONSTRUCTION NOTES

AREAS AND STATIONS AS DIRECTED ON PLANS

203.242 DIRTY BORROW

TO BE USED ON SLOPE OUTSIDE RIP RAP AREAS

204.41 REHAB EXISTING SHOULDER PLAN QUANTITY

STA 90+05 to 91+75 LT
STA 90+38 to 93+33 RT

403.208 12.5MM HOT MIX ASPHALT

TO BE USED AS SURFACE AT A 2" DEPTH OR AS DIRECTED BY RESIDENT AND AS SHOWN ON PLANS

504.07 CONCRETE PIPE TIES

TO BE USED AT LAST TWO JOINTS ON BOTH ENDS OF THE PIPE.

511.07 COFFERDAM

UPSTREAM 1 LS
DOWNSTREAM 1 LS

527.303 ENERGY ABSORBING SYSTEM (ET-PLUS)

STA 90+15 to STA 90+52.5 LT
STA 91+27.5 to 91+65 LT
STA 90+48 to STA 90+85.5 RT
STA 92+85.5 to 93+23 RT

603.47 60" RCP CLASS IV

STA 91+22 SKEWED

606.23 GUARDRAIL TYPE 3C - SINGLE RAIL

SIDE	START STATION	END STATION	LENGTH
LT.	90+52.5	91+27.5	75.0'
RT.	90+85.5	92+85.5	200.0'

606.353 REFLECTORIZED FLEXABLE G.R. MARKER

SIDE	STATION
LT.	90+15
LT.	90+52.5
LT.	91+27.5
LT.	91+65
RT.	90+48
RT.	90+85.5
RT	92+85.5
RT	93+23

610.08 PLAIN RIP RAP

STA 90+86 LT

STA 91+48 RT

618.1401 SEEDING METHOD #2 -PLAN QUANTITY

SEEDING CAN BE DONE BY HAND

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019265.00

PIN 019265.00

HIGHWAY PLANS

			DATE
PROJ. MANAGER	SHAWN SMITH	BY	
DESIGN-DETAILED	B. Estes	D. Rowlands	----
CHECKED-REVIEWED	----	----	----
DESIGN2-DETAILED2	----	----	----
DESIGN3-DETAILED3	----	----	----
REVISIONS 1	----		----
REVISIONS 2	----		----
REVISIONS 3	----		----
REVISIONS 4	----		----
FIELD CHANGES	----		----

SIGNATURE

P.E. NUMBER

DATE

BELGRADE
CASTLE ISLAND ROAD

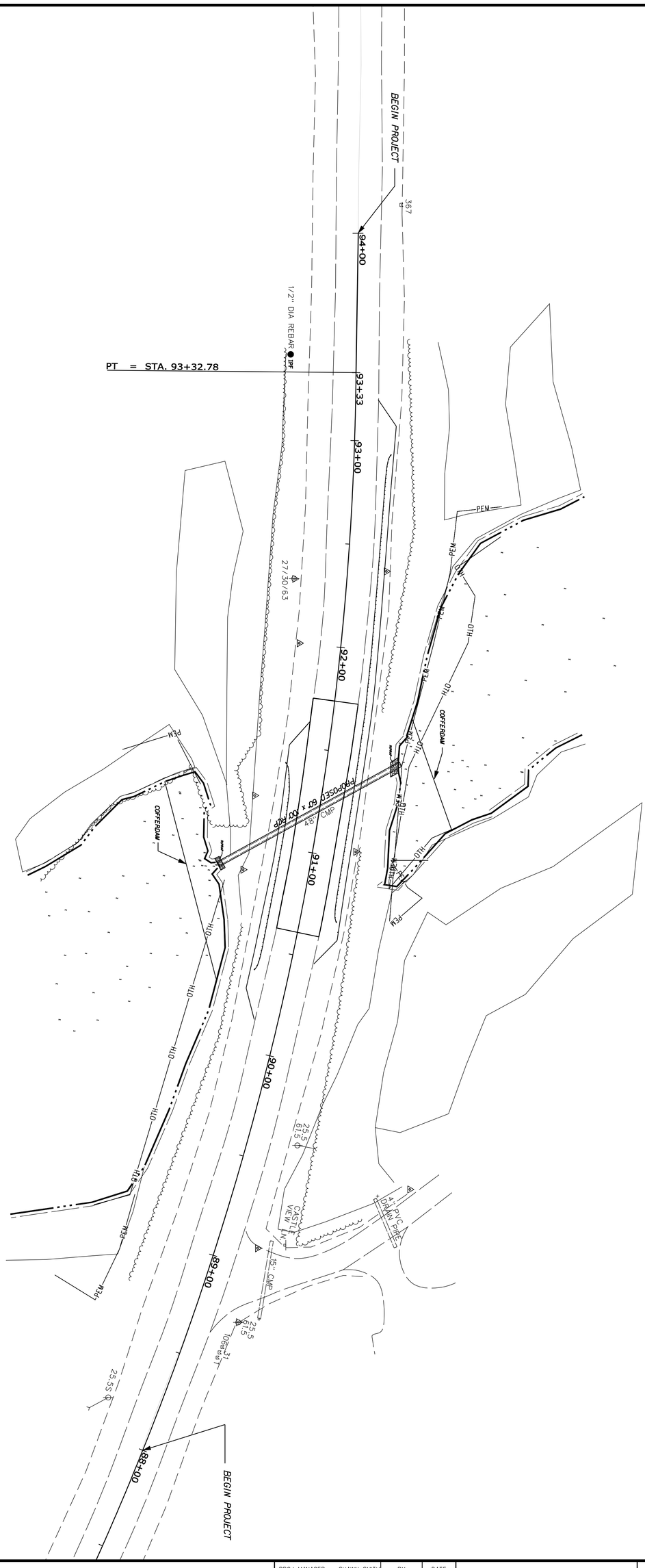
ESTIMATED QUANTITIES

SHEET NUMBER

3

OF 10

Filename: ...\highway\rnsta\003_Estimate.dgn Division: HIGHWAY Username: randall.barrows Date:8/1/2012



SHEET NUMBER 4 OF 10	BELGRADE CASTLE ISLAND ROAD	PROJ. MANAGER SHAWN SMITH	BY	DATE
		DESIGN-DETAILED B. Estes	D. Rowlands	
		CHECKED-REVIEWED		
		DESIGN2-DETAILED2		
		DESIGN3-DETAILED3		
		REVISIONS 1		
		REVISIONS 2		
		REVISIONS 3		
		REVISIONS 4		
		FIELD CHANGES		
	PLANS			

SIGNATURE

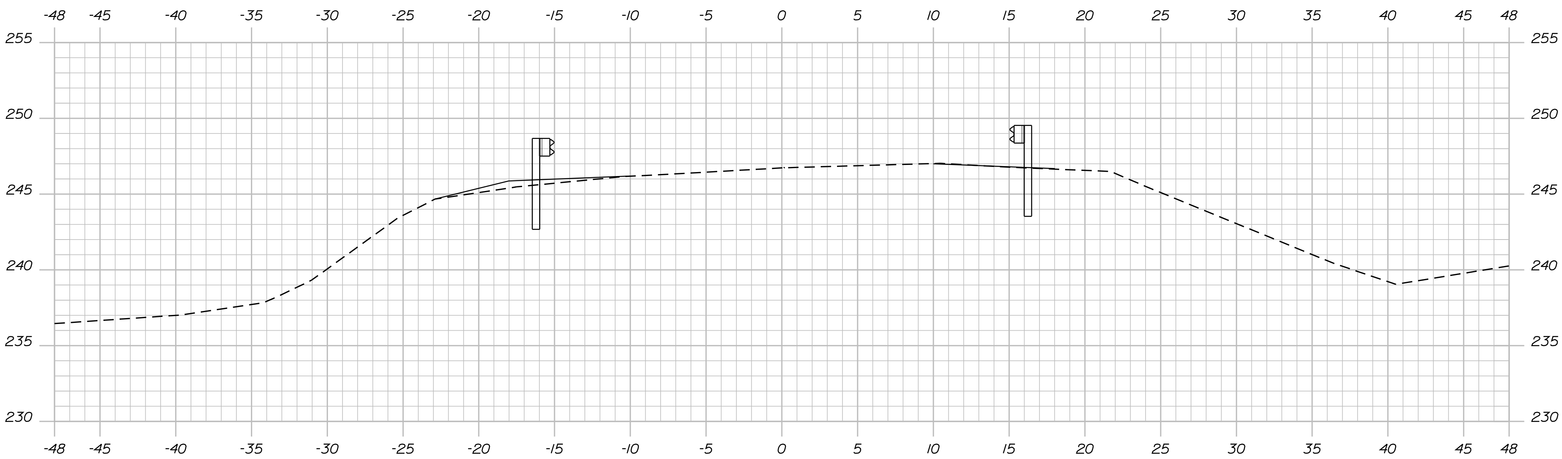
P.E. NUMBER

DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

019265.00

PIN 019265.00 HIGHWAY PLANS



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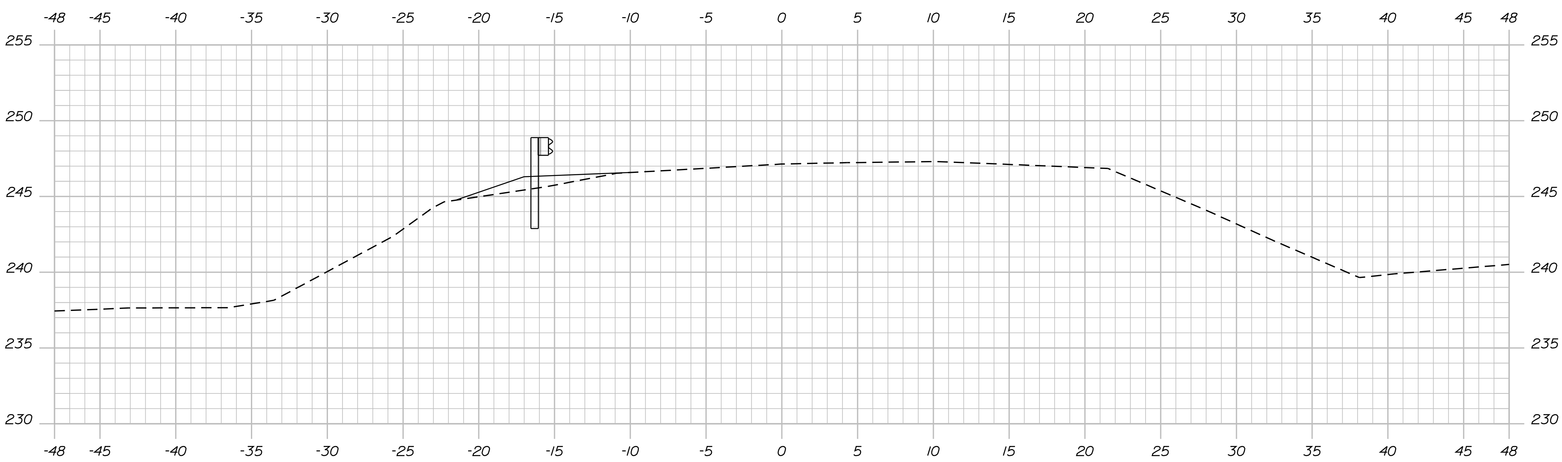

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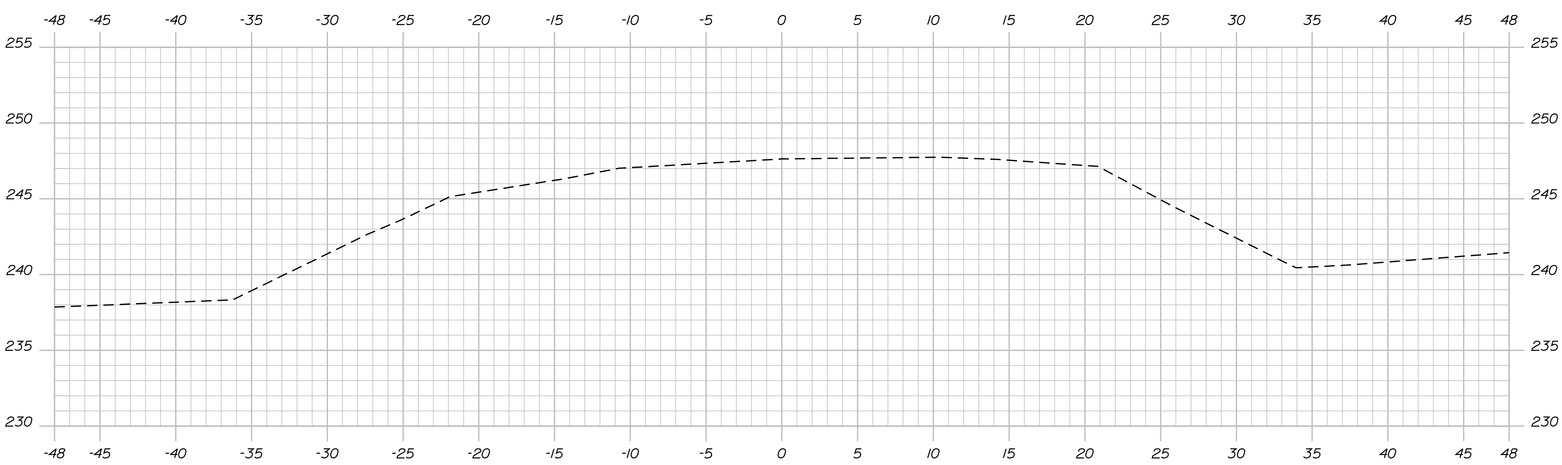

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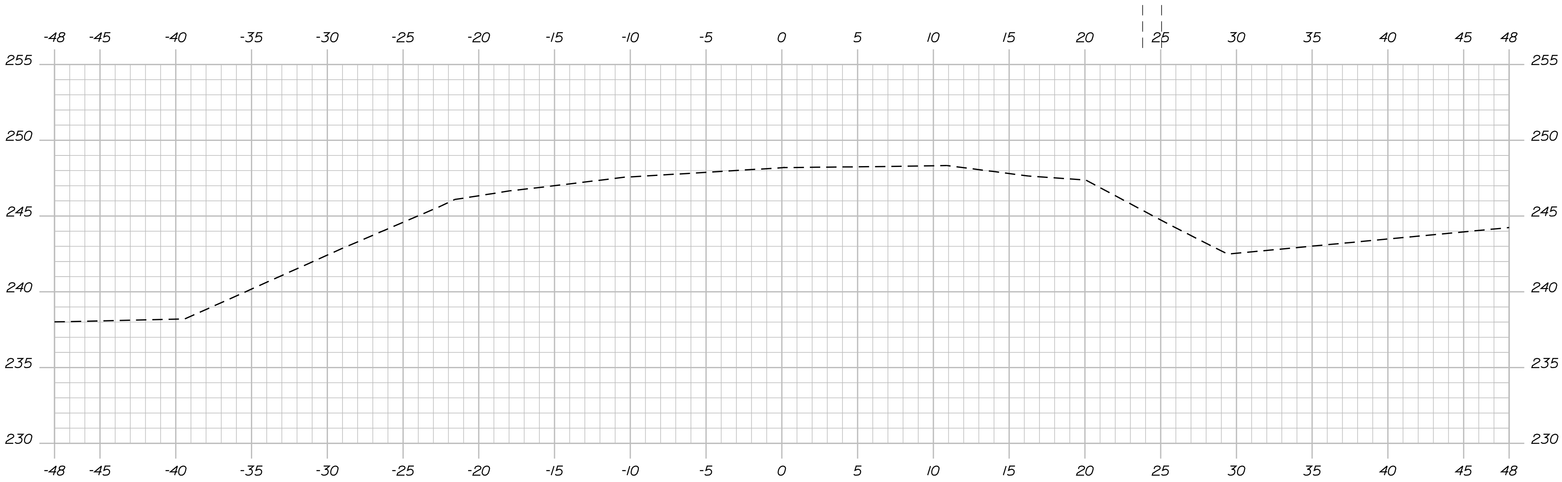


89+75.00

Sta. 89+75.00 to Sta. 90+50.00

SHEET NUMBER 5 OF 10

BELGRADE
CASTLE ISLAND

CROSS SECTIONS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	DEAN FORLANDS		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

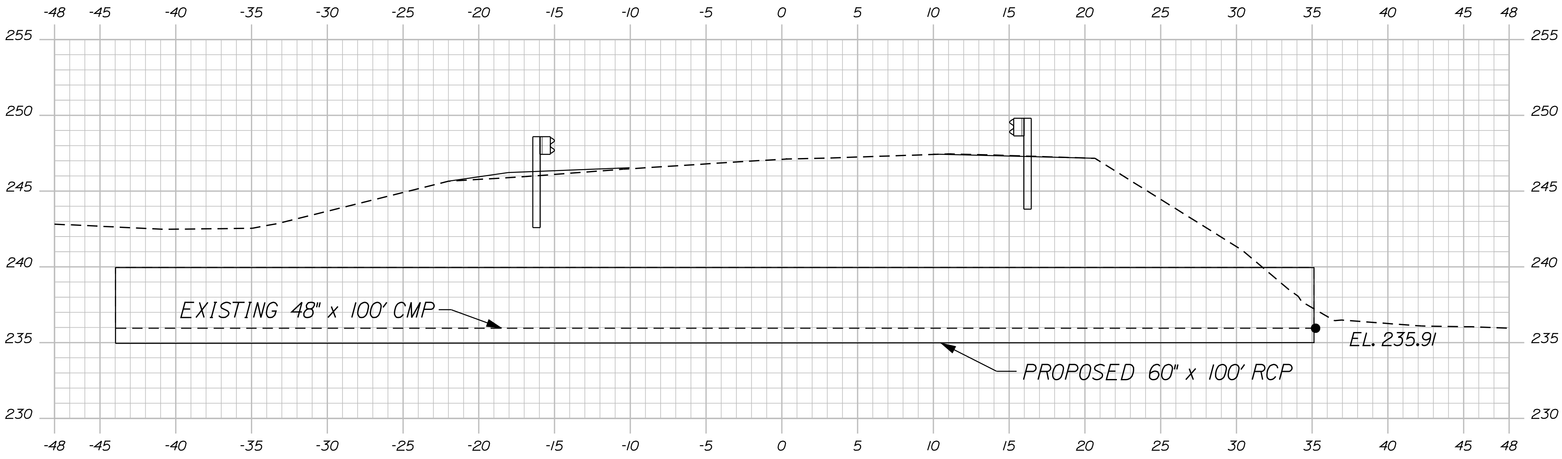
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

19265.00

WIN
19265.00

HIGHWAY PLANS



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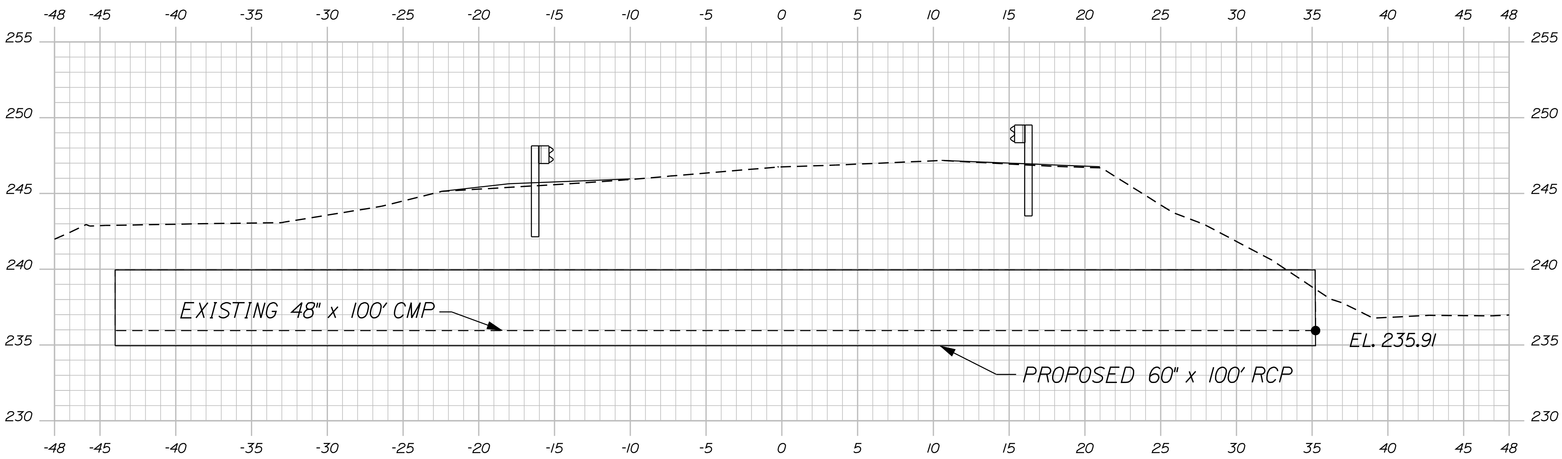

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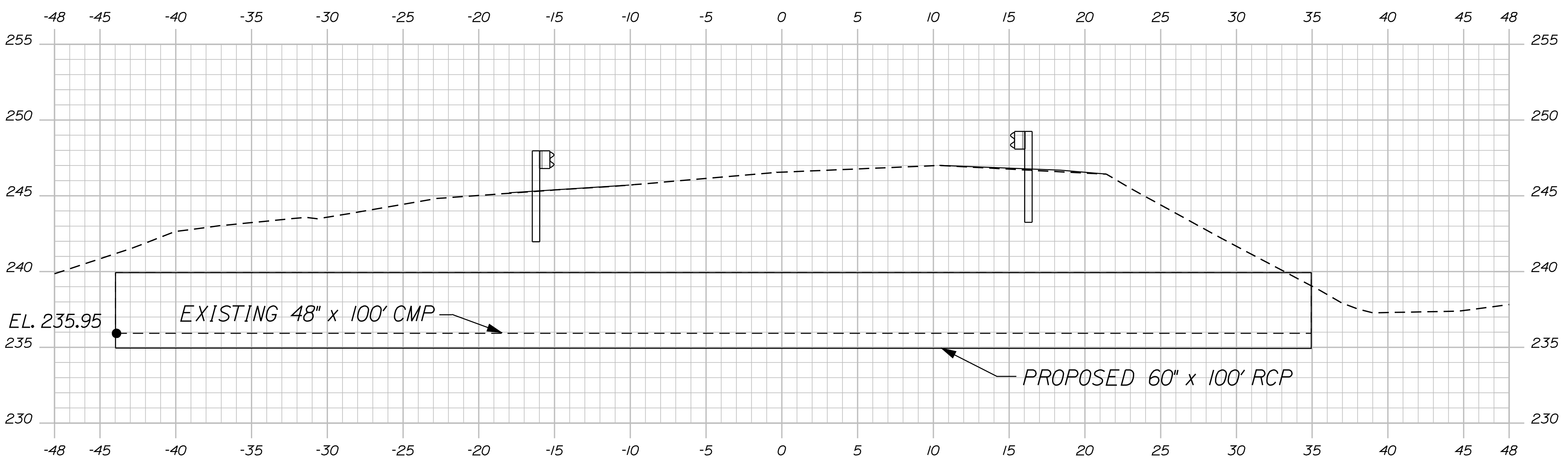

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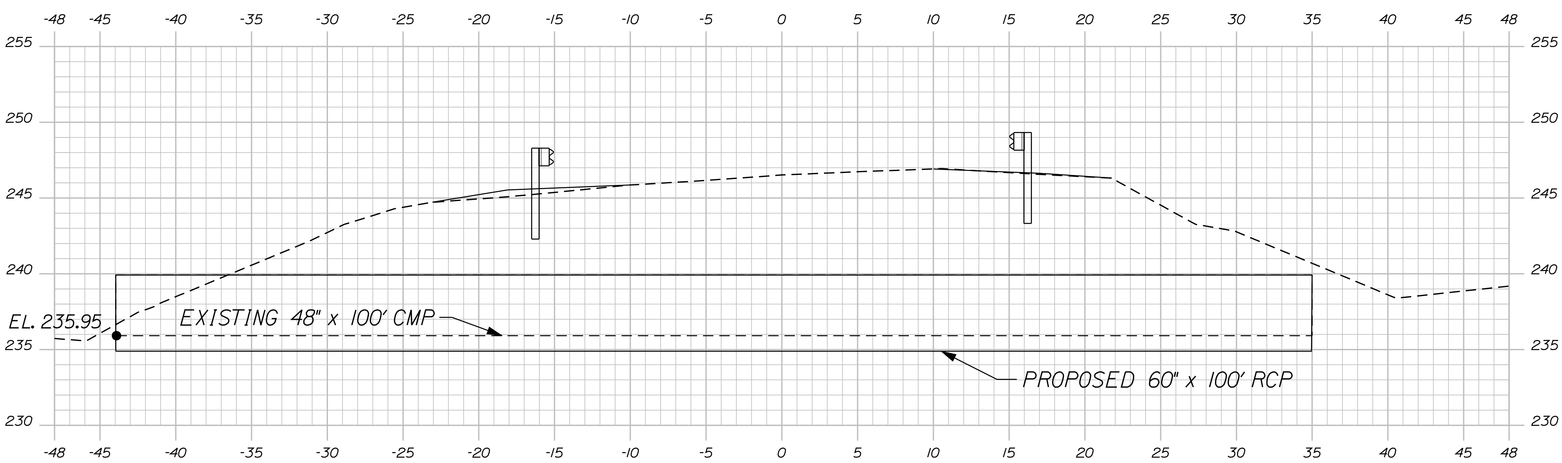


90+75.00

Sta. 90+75.00 to Sta. 91+50.00

SHEET NUMBER 6 OF 10

BELGRADE
CASTLE ISLAND

CROSS SECTIONS

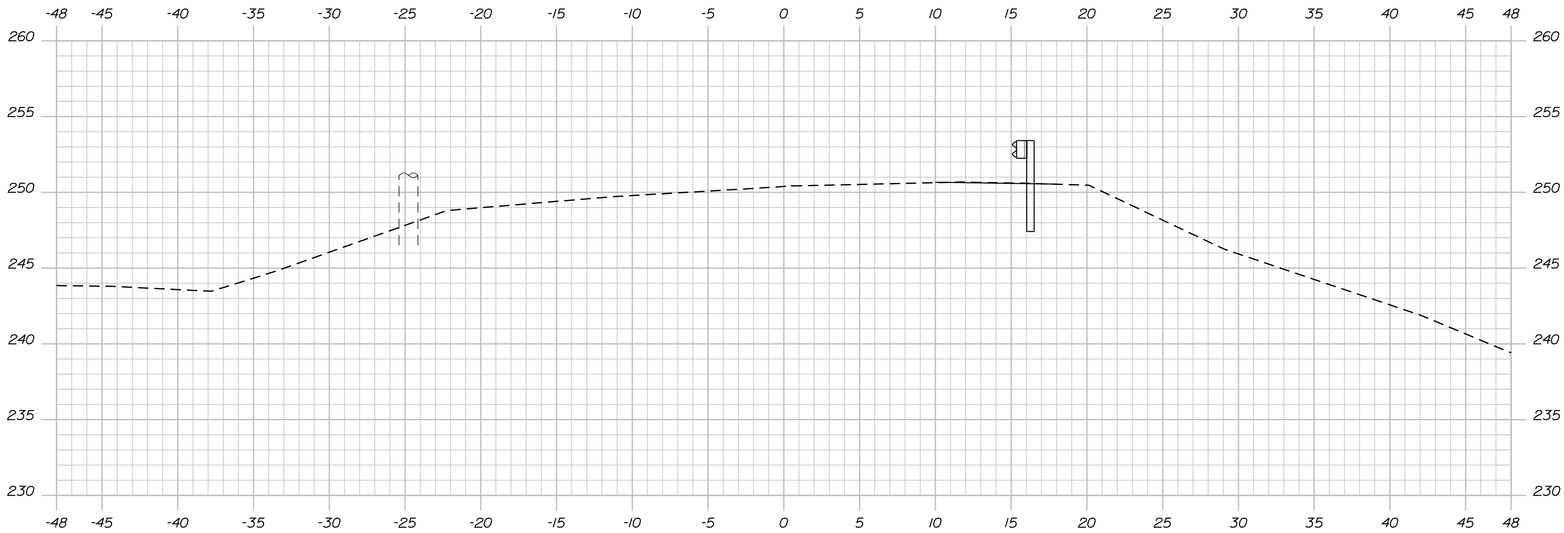
PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	DEAN FORLANDS		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE
P.E. NUMBER
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

19265.00

WIN 19265.00 HIGHWAY PLANS



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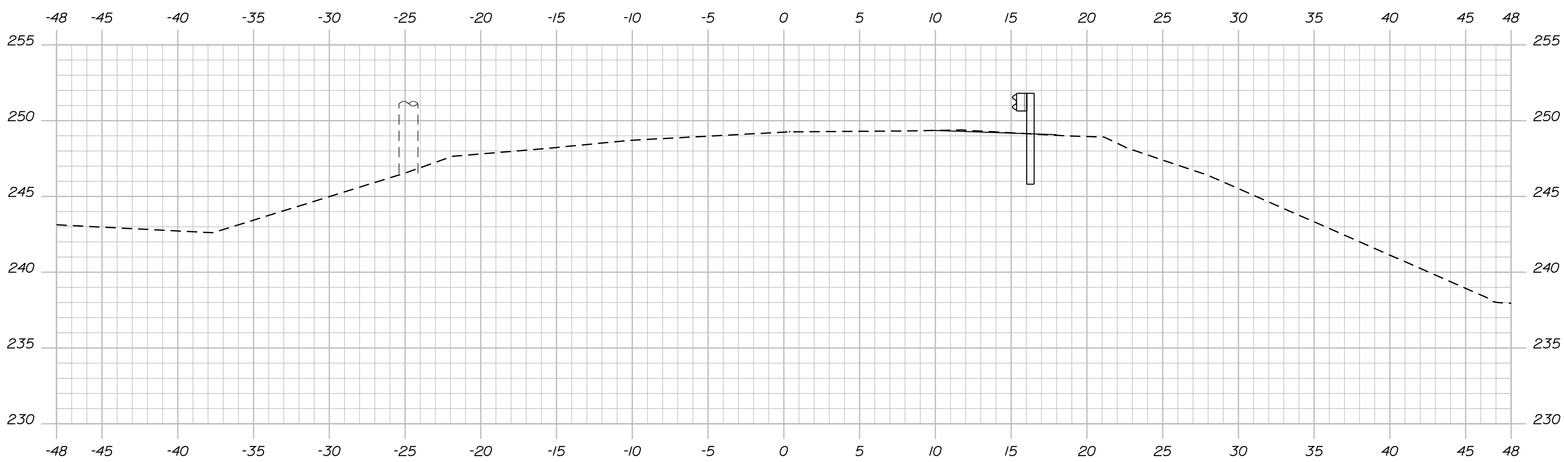

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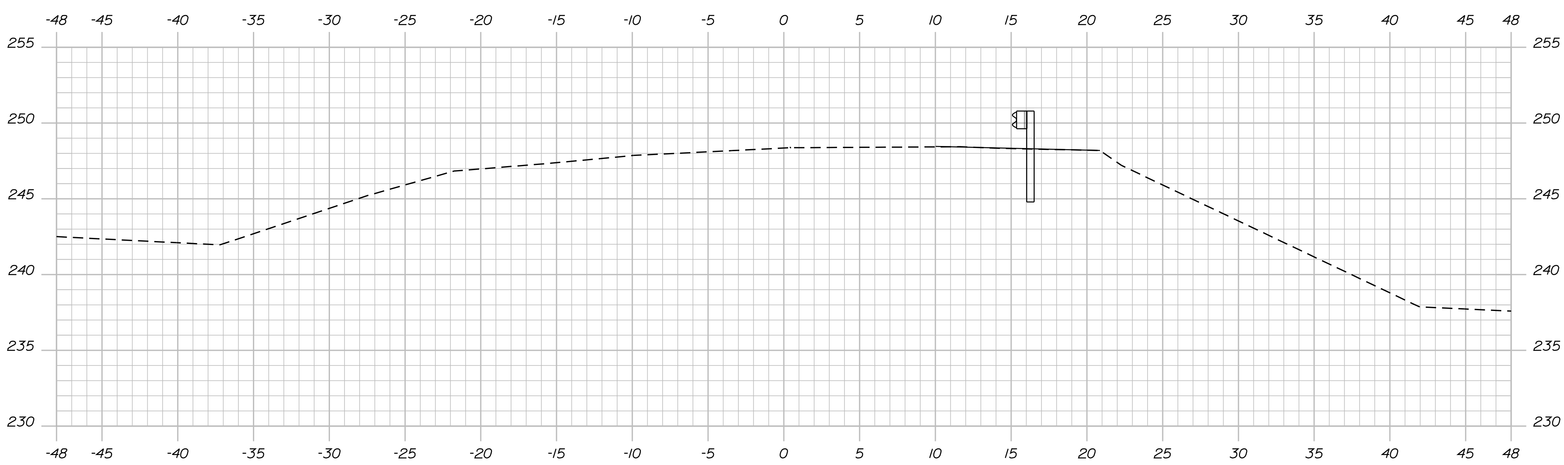

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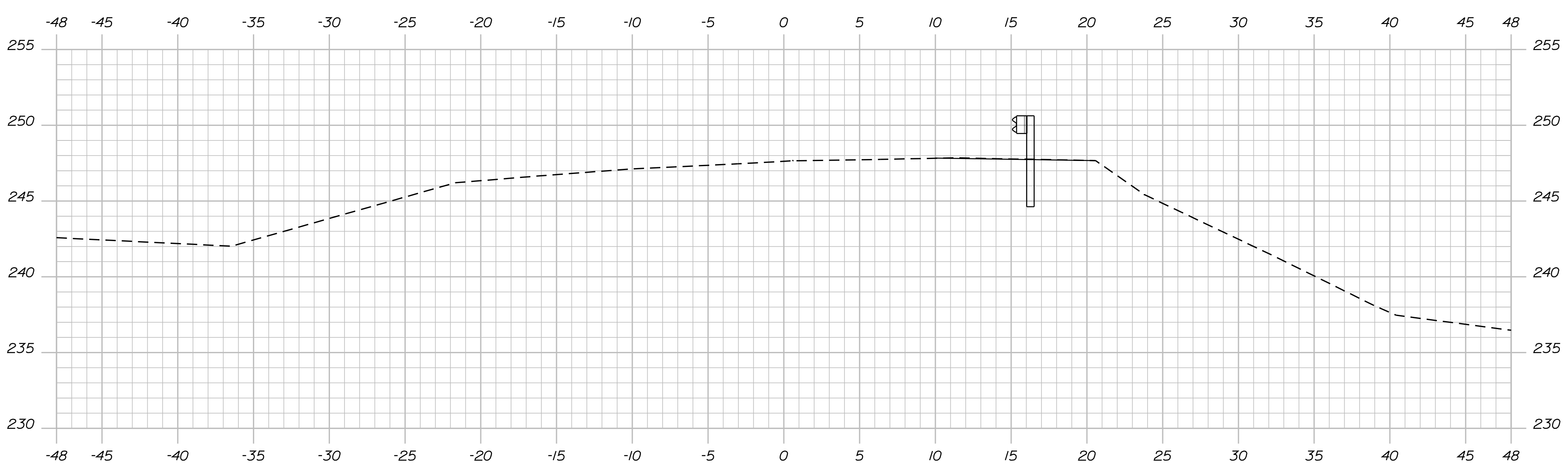


91+75.00

Sta. 91+75.00 to Sta. 92+50.00

SHEET NUMBER 7 OF 10

BELGRADE
CASTLE ISLAND

CROSS SECTIONS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	DEAN FORLANDS		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

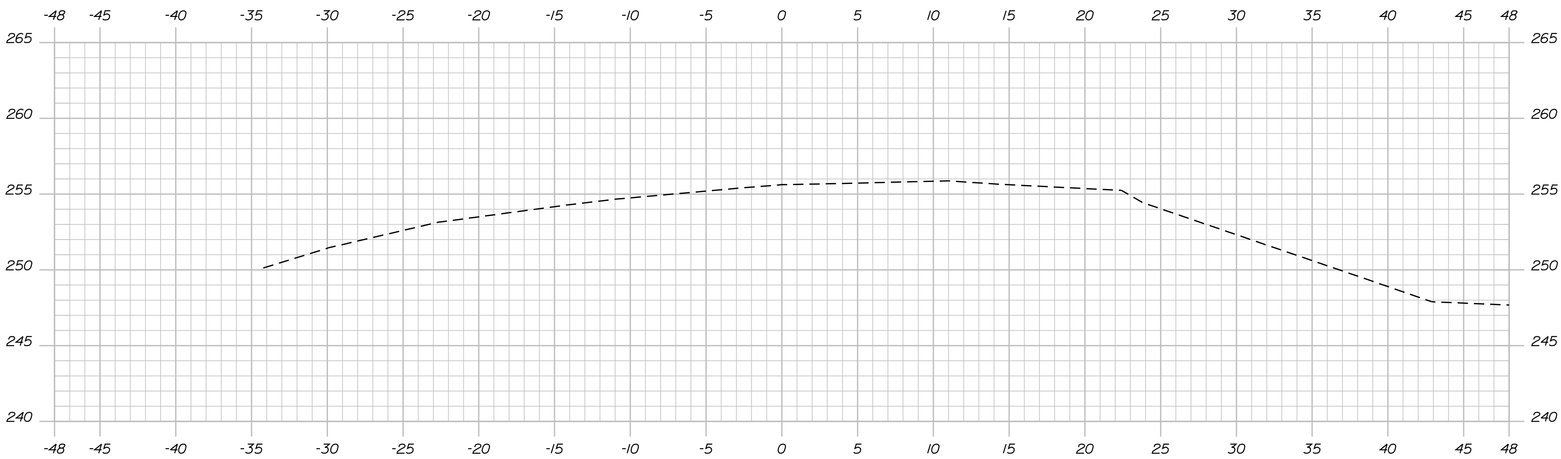
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

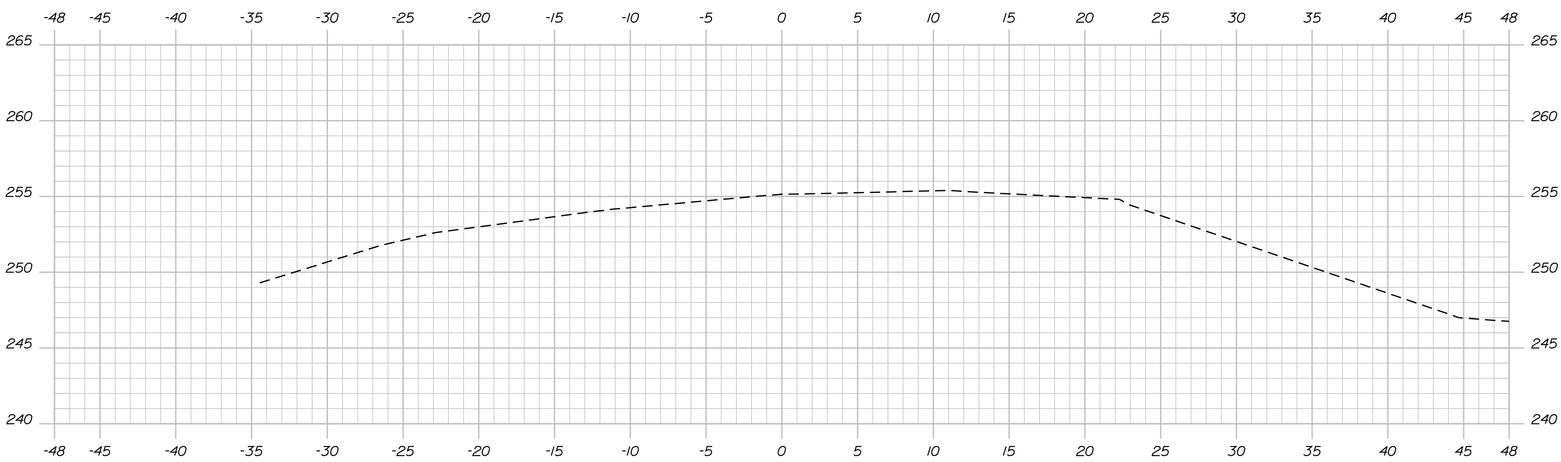
19265.00

WIN
19265.00

HIGHWAY PLANS



93+32.78



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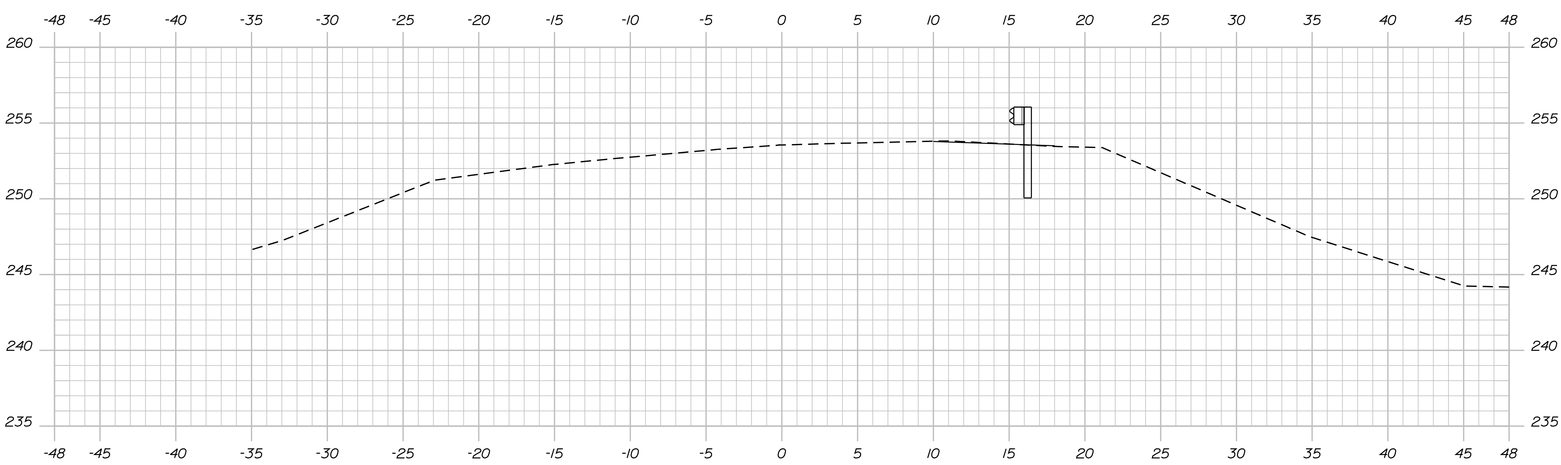

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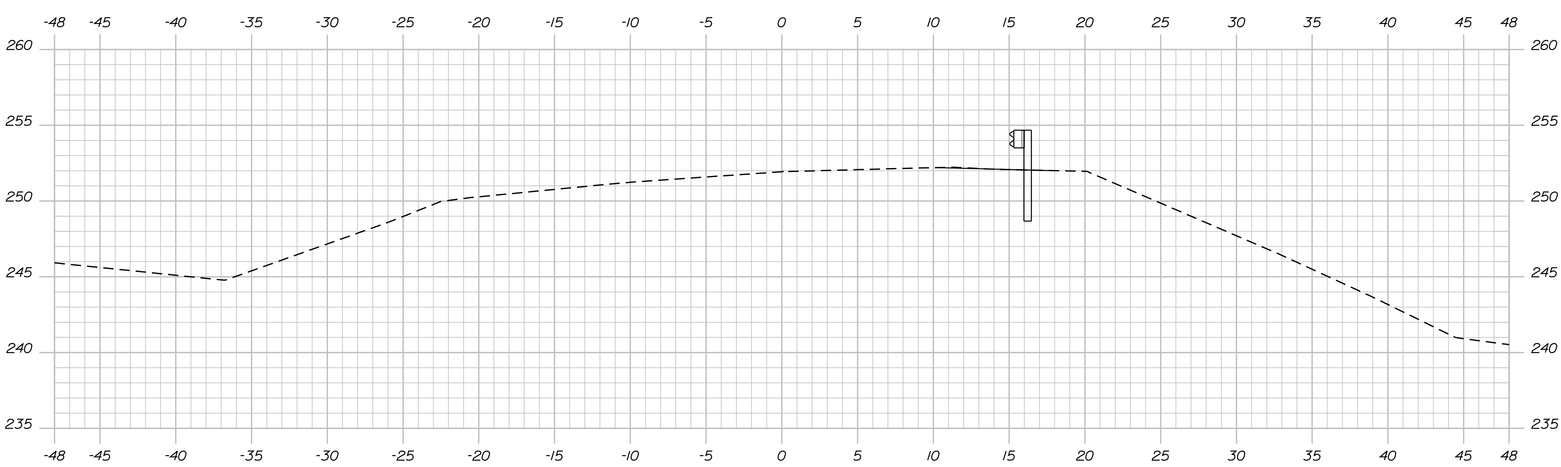


92+75.00

Sta. 92+75.00 to Sta. 93+32.78

SHEET NUMBER 8 OF 10

BELGRADE
CASTLE ISLAND

CROSS SECTIONS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	DEAN FORLANDS		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

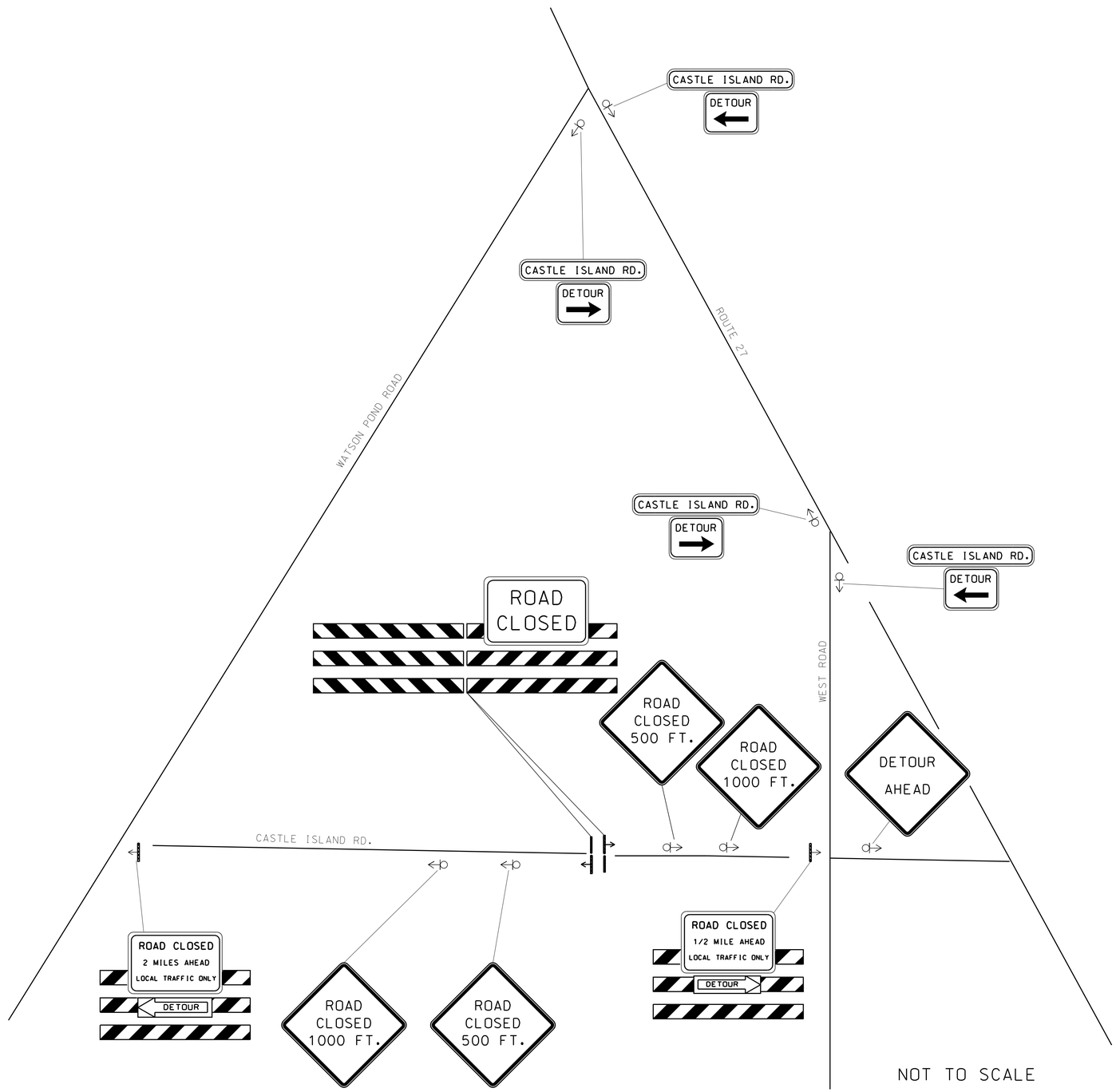
DATE

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

19265.00

WIN
19265.00

HIGHWAY PLANS



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

STATE PROJECT NO. 19265.00

WIN
019265.00

HIGHWAY PLANS

PROJ. MANAGER	SHAWN SMITH	BY	DATE
DESIGN-DETAILED	DEAN ROLLINGS		
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

SIGNATURE

P.E. NUMBER

DATE

BELGRADE
CASTLE ISLAND ROAD

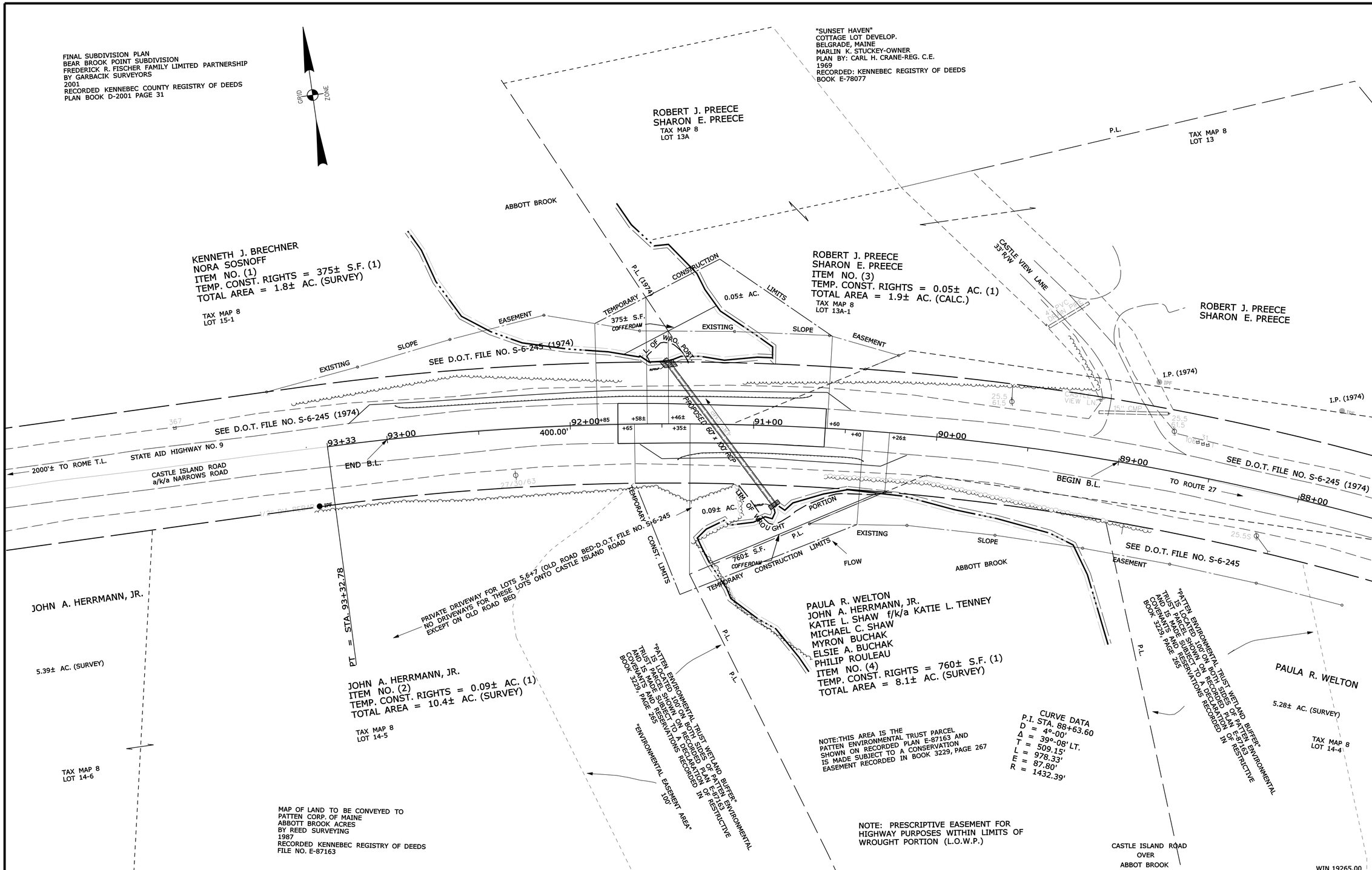
PLANS

SHEET NUMBER

9

OF 10

Filename: ...\msta\009_DetourPlan.dgn Division: HIGHWAY Username: randall.barrows Date:8/1/2012



SYMBOLS

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

ITEM	TECH	CHECKED
BASE MAP		
EXIST. R/W	D.W.B.	
PROP. LINES	D.W.B.	
AREAS	D.W.B.	P.N.S.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
16 STATE HOUSE STATION - AUGUSTA, ME 04333-0016

BELGRADE
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
KENNETH L. SWEENEY
CHIEF ENGINEER
DATE

STATE AID HIGHWAY NO. 9
CASTLE ISLAND ROAD a/k/a NARROWS ROAD
BELGRADE KENNEBEC COUNTY
STATE PROJECT NO. 019265.00

JUNE 2012	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 6-X
SCALE 1" = 25'	SHEET 1 OF 1	

SHEET NUMBER
10
OF 10

Filename: ...\00\ROW\MSTA\001_RWPLAN1.dgn Division: HIGHWAY Username: randall.barrows Date:8/1/2012