

STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION



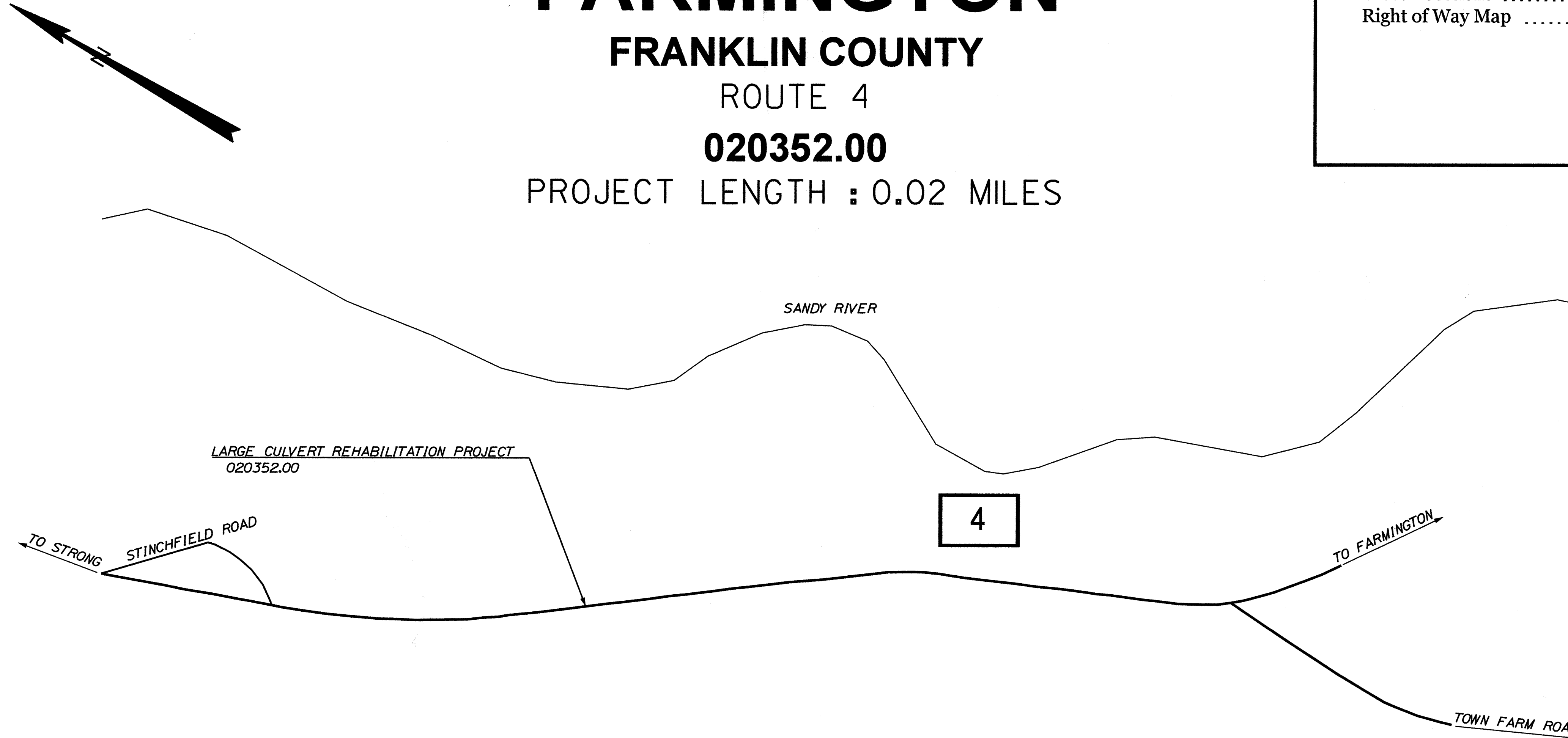
**FARMINGTON**

FRANKLIN COUNTY

ROUTE 4

**020352.00**

PROJECT LENGTH : 0.02 MILES



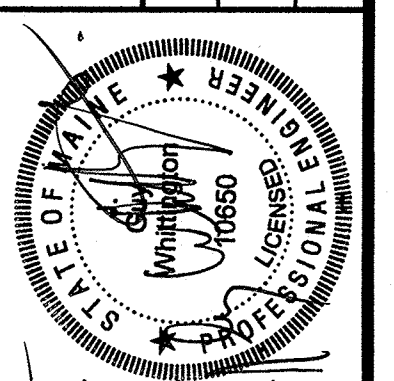
Description	Sheet No.
Title Sheet .....	1
Estimated Quantities/Construction Notes .....	2
Box Culvert Details .....	3
Plan / Profile .....	4
Cross - Sections .....	5-7
Right of Way Map .....	8

**TRAFFIC DATA**

Current (2017) AADT .....	3670
Future (2029) AADT .....	4110
DHV - % of AADT .....	10%
Design Hour Volume .....	411
% Heavy Trucks (AADT) .....	11%
% Heavy Trucks (DHV) .....	9%
Directional Distribution (DHV) ..	54%
18 kip Equivalent P 2.0 .....	313
18 kip Equivalent P 2.5 .....	298
Design Speed (mph) .....	50
Functional Class: .....	Minor Arterial
Corridor Priority: .....	2

<b>PROJECT LOCATION:</b>	Slope stabilization at large culvert in Farmington on Route 4, 0.75 miles North of intersection Route 4 and Town Farm Road, Mile Point 124.46.
<b>PROGRAM AREA:</b>	Highway Program
<b>SCOPE OF WORK:</b>	Large Culvert Rehabilitation

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED <i>[Signature]</i>	DATE 3/28/17
	COMMISSIONER <i>[Signature]</i>	3/28/17
	CHIEF ENGINEER <i>[Signature]</i>	3/28/17



<i>[Signature]</i>	SIGNATURE	10660
	P.E. NUMBER	3/16/17
	DATE	

PROJECT INFORMATION	
PROGRAM	HIGHWAY
PROJECT MANAGER	GUY WHITTINGTON
DESIGNER	S. KELLY
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

FARMINGTON  
ROUTE 4  
TITLE SHEET

SHEET NUMBER  
**1**  
OF 8

WIN 20352.00 020352.00

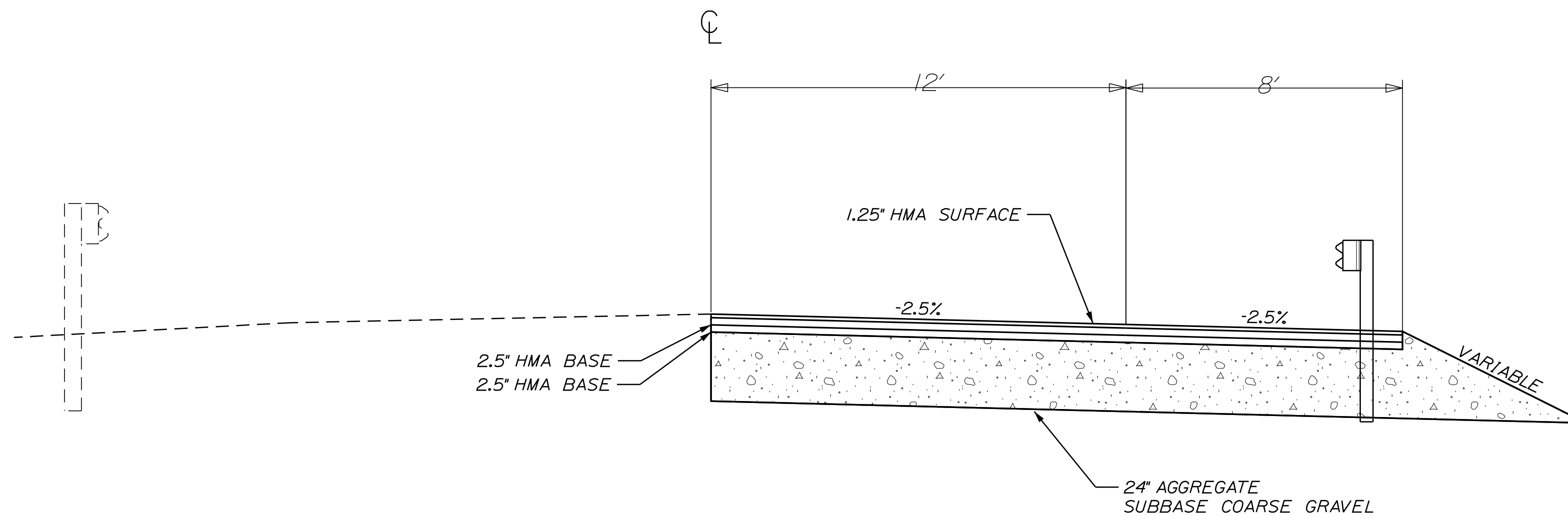
ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
203.20	COMMON EXCAVATION	160	CY
203.25	GRANULAR BORROW	200	CY
203.35	CRUSHED STONE FILL	15	CY
206.061	STRUCTURAL EARTH EXCAVATION-DRAINAGE & MINOR STRUCTURES	110	CY
206.07	STRUCTURAL ROCK EXCAVATION-DRAINAGE & MINOR STRUCTURES	10	CY
304.10	AGGREGATE SUBBASE COURSE-GRAVEL	150	CY
403.210	HOT MIX ASPHALT 9.5 MM SURFACE	20	T
403.213	HOT MIX ASPHALT 12.5 MM BASE	70	T
409.15	BITUMINOUS TACK COAT APPLIED	25	G
508.13	SHEET WATERPROOFING MEMBRANE	10	SY
511.07	COFFERDAM: DOWNSTREAM	1	LS
511.07	COFFERDAM: UPSTREAM	1	LS
518.80	CRACK REPAIR	30	LF
524.301	TEMPORARY STRUCTURAL SUPPORT	1	LS
526.301	TEMPORARY CONCRETE BARRIER TYPE I	250	LF
527.34	WORK ZONE CRASH CUSHIONS	2	UN
534.71	PRECAST CONCRETE BOX CULVERT	40	CY
606.23	GUARDRAIL TYPE 3C-SINGLE RAIL	180	LF
606.231	GUARDRAIL TYPE 3C-15 FOOT RADIUS AND LESS	60	LF
610.08	PLAIN RIPRAP	15	CY
613.319	EROSION CONTROL BLANKET	10	SY
618.14	SEEDING METHOD NUMBER 2 - PLAN QUANTITY	5	UN
619.12	MULCH - PLAN QUANTITY	5	UN
619.14	EROSION CONTROL MIX	50	CY
620.58	EROSION CONTROL GEOTEXTILE	15	SY
621.032	EVERGREEN TREES (4 FOOT - 5 FOOT) GROUP B	3	EA
621.038	EVERGREEN TREES (5 FOOT - 6 FOOT) GROUP B	4	EA
621.044	EVERGREEN TREES (6 FOOT - 8 FOOT) GROUP B	3	EA
621.255	LARGE DECIDUOUS TREES (8 FOOT - 10 FOOT) GROUP A	6	EA
621.552	DECIDUOUS SHRUBS (3 FOOT - 4 FOOT) GROUP A	5	EA
627.733	4 INCH WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	224	LF
629.05	HAND LABOR, STRAIGHT TIME	10	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.172	TRUCK-LARGE (INCLUDING OPERATOR)	10	HR
643.72	TEMPORARY TRAFFIC SIGNAL	1	LS
652.312	TYPE III BARRICADE	2	EA
652.33	DRUM	10	EA
652.34	CONE	30	EA
652.35	CONSTRUCTION SIGNS	200	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	45	CD
652.38	FLAGGER	50	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

### GENERAL CONSTRUCTION NOTES

- Any necessary cleaning of existing pavement prior to paving shall be incidental to the related paving items.
- No existing drainage shall be abandoned or plugged without prior approval of the Resident.
- Erosion Control Mix shall be placed to a nominal depth of 4" on the inslope.
- Any damage to the slopes caused by the Contractor's equipment, personnel, or operations 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.
- For easements, construction limits and right of way lines, refer to Right of Way Map.
- Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
- All embankment material, except as otherwise shown, placed below normal high water elev shall be Granular Borrow meeting the requirements of Subsection 703.19. Material for Underwater Backfill.
- The hydrologic report of the stream 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. The MaineDOT web address is <http://www.maine.gov/mdot/contractors/>.
- Saw cut joints shall be considered incidental to Item 203.20
- All waste material not used on the project shall be disposed of in acceptable waste areas reviewed by the Resident. Grading, seeding, and mulching of waste areas shall be considered incidental to 656 items.
- No separate payment for superintendent of foreman will be made for the supervision of equipment being paid for under the equipment rental items.
- All work shall be done in accordance with the Maine Department of Transportation's Best Management Practices for Erosion & Sedimentation Control, February 2008.
- Stations referenced in the construction notes are approximate.
- Stone 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 304.10 Aggregate Subbase Course - Gravel.
- All clearing necessary for this project has been completed. No clearing of any tree 3" or greater diameter breast high (DBH) will be permitted. Any clearing of trees less than 3" DBH shall be considered incidental to the contract.
- Removal of the existing stone drainage structure will be paid for under Item 206.0611.

### GEOTECHNICAL NOTES

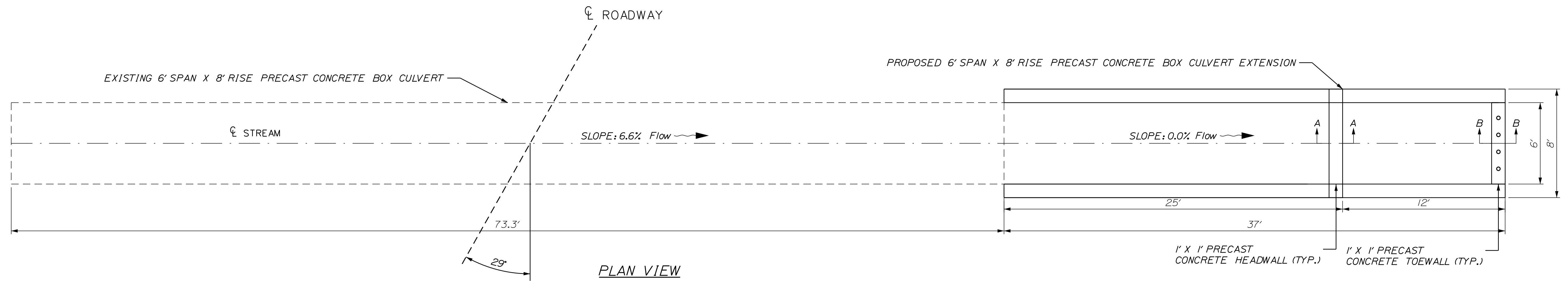
- The Geotechnical Report For This Project, GEOTECHNICAL DESIGN REPORT FOR THE EXTENSION OF STATE ROUTE 4 LARGE CULVERT FARMINGTON, MAINE, MAINE DOT Soils Report 2016-02 may be accessed at the MaineDOT website.
- Geotechnical information referenced in this plan set is for the Bidders' and Contractor's use. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the time of construction. The Department shall not be responsible for the Bidder's and Contractor's interpretation of, or conclusions drawn from, the geotechnical information. The Boring Logs contained in the Geotechnical Report present interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between boring locations.
- Where new embankment fills are placed on existing slopes steeper than 2H:1V and as shown on the plans, the existing slope shall be continuously benched as per Standard Specification 203.09 and OSHA requirements for excavation.
- Cobbles and boulders larger than 6 inches encountered at subgrade shall be removed. Holes below subgrade that result from their removal shall be backfilled with native soil and compacted. Payment will be incidental to Item 203.20.
- The entire embankment, including the areas beyond the 1.5H:1V line extending from the finished shoulder, shall be compacted.
- The bedrock will vary in nature, slope and degree of fracturing. The presence of bedrock at the bearing elevation has been estimated based on the boring information. Actual bedrock elevations will vary.
- The bedrock surface shall be cleaned of all weathered or fractured rock or loose soil.
- Where the bedrock surface slope exceeds 4H:1V the bedrock surface shall be benched in level steps or made less steep than 4H:1V.
- Bedrock that protrudes above the bearing elevation shall be removed. Payment for bedrock removal will be made under Item No. 206.07 - Structural Rock Excavation - Drainage and Minor Structures.



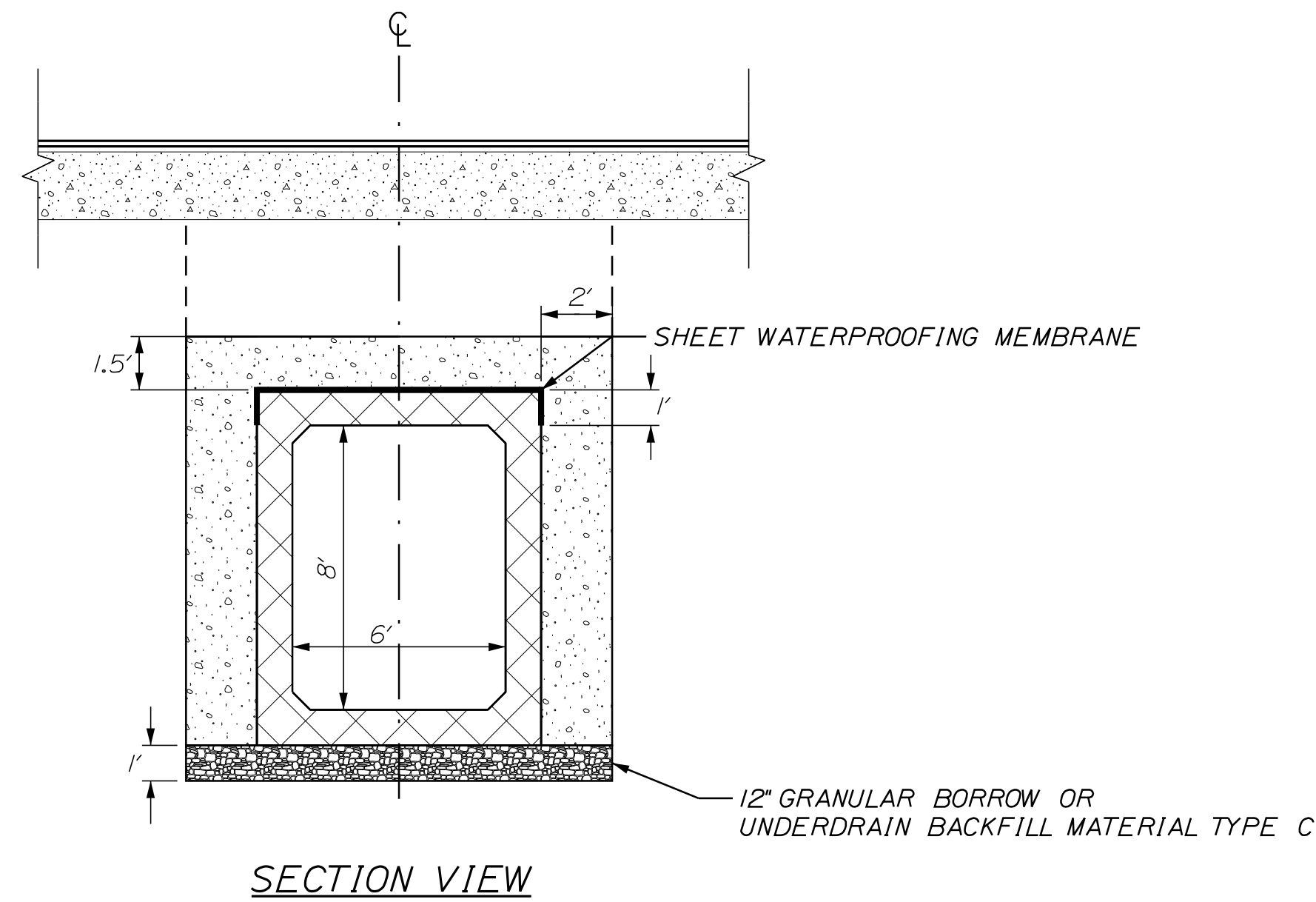
TYPICAL FULL CONSTRUCTION SECTION

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	020352.00	WIN	20352.00	HIGHWAY PLANS
DATE	BY	WHITTINGTON	L.KANDIKO	SIGNATURE
DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	DESIGN-DETAILED	P.E. NUMBER
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	DATE
FIELD CHANGES				

FARMINGTON  
ROUTE 4  
ESTIMATED QUANTITIES, TYPICAL, &  
GENERAL CONSTRUCTION NOTES

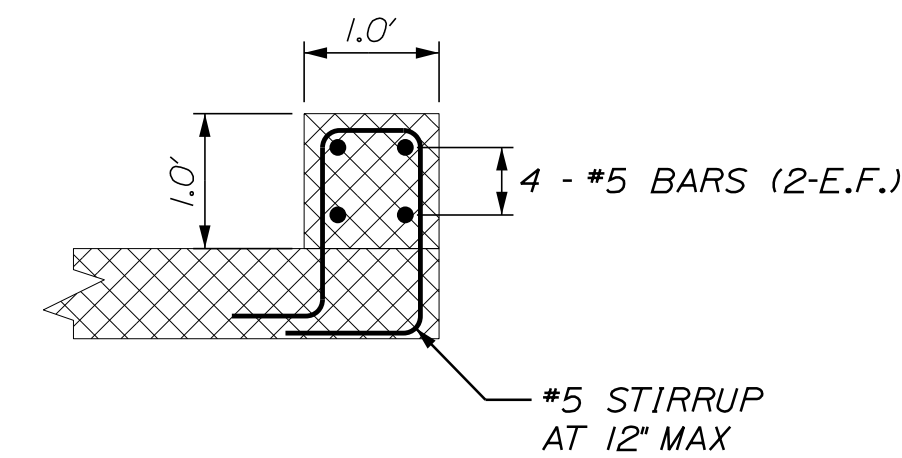


PLAN VIEW

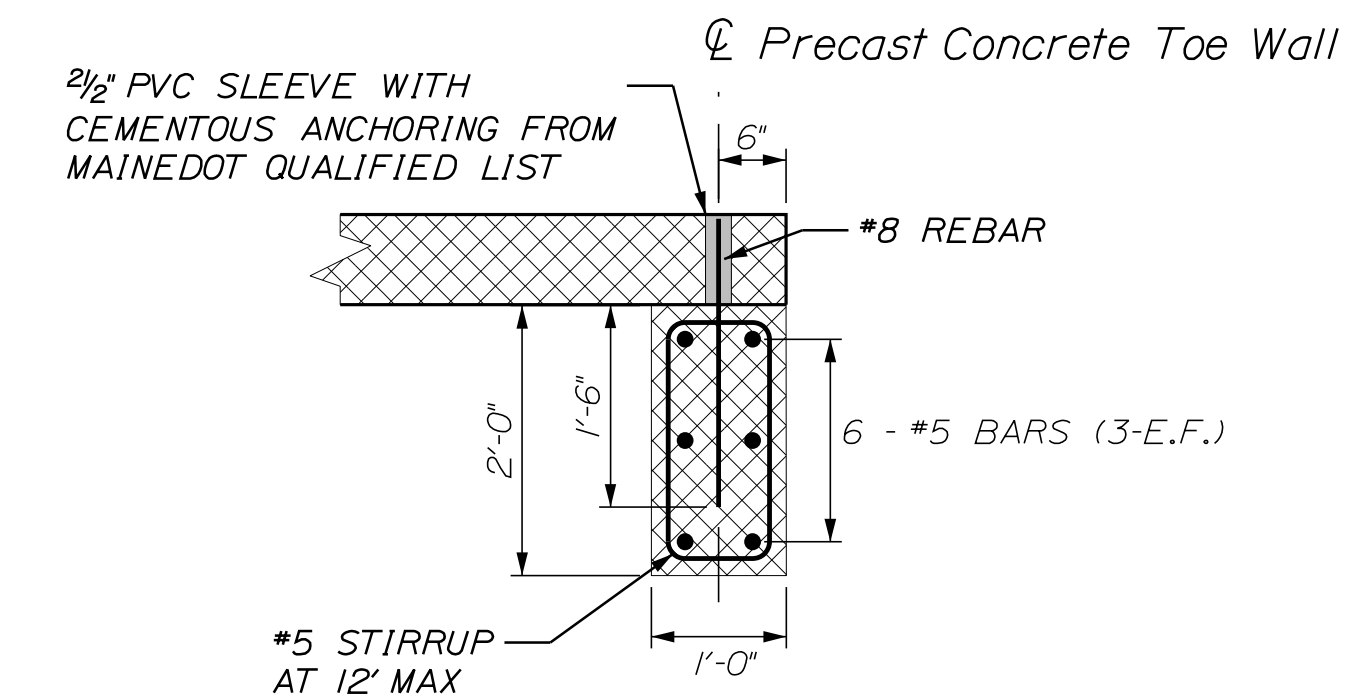


SECTION VIEW

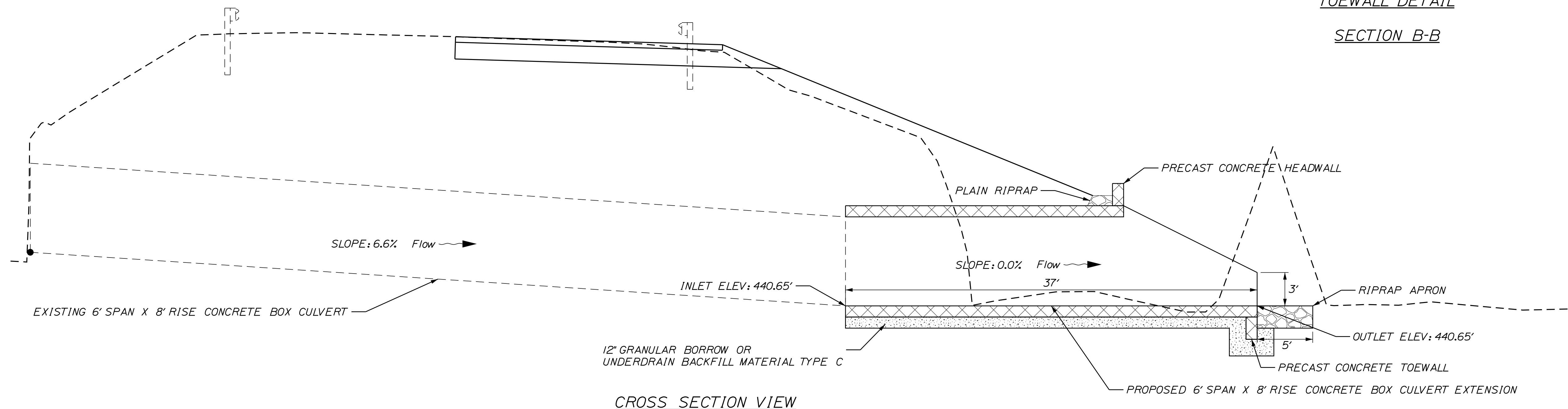
- PRECAST CONCRETE BOX NOTES**
1. THE PRECAST UNIT SHALL BE DESIGNED TO CARRY CONSTRUCTION LOADING WITH A MINIMUM FILL COVER OF 18 INCHES OVER THE TOP OF THE UNITS.
  2. THE CONSTRUCTION, HANDLING AND ASSEMBLY OF THE PRECAST UNITS SHALL BE IN ACCORDANCE WITH STANDARD SPECIFICATION, SECTION 534, PRECAST STRUCTURAL CONCRETE, AND WITH THE MANUFACTURER'S SPECIFICATIONS AS APPLICABLE.
  3. INSTALL SHEET WATERPROOFING MEMBRANE OVER THE TOP AND 12 INCHES DOWN THE EXTERIOR SIDES OF THE PRECAST UNITS.
  4. THE MECHANICAL CONNECTION BETWEEN THE EXISTING BOX CULVERT ENDS AND THE PROPOSED BOX CULVERT EXTENSIONS SHALL BE DESIGNED BY THE CONTRACTOR AND THE SUPPLIER AND SUBMITTED TO THE DEPARTMENT FOR REVIEW AND ACCEPTANCE. MECHANICAL CONNECTION SHALL BE CONSIDERED INCIDENTAL TO ITEM NO. 534.75 - EXTENSION OF EXISTING BOX CULVERT.



HEADWALL DETAIL SECTION A-A



TOEWALL DETAIL SECTION B-B



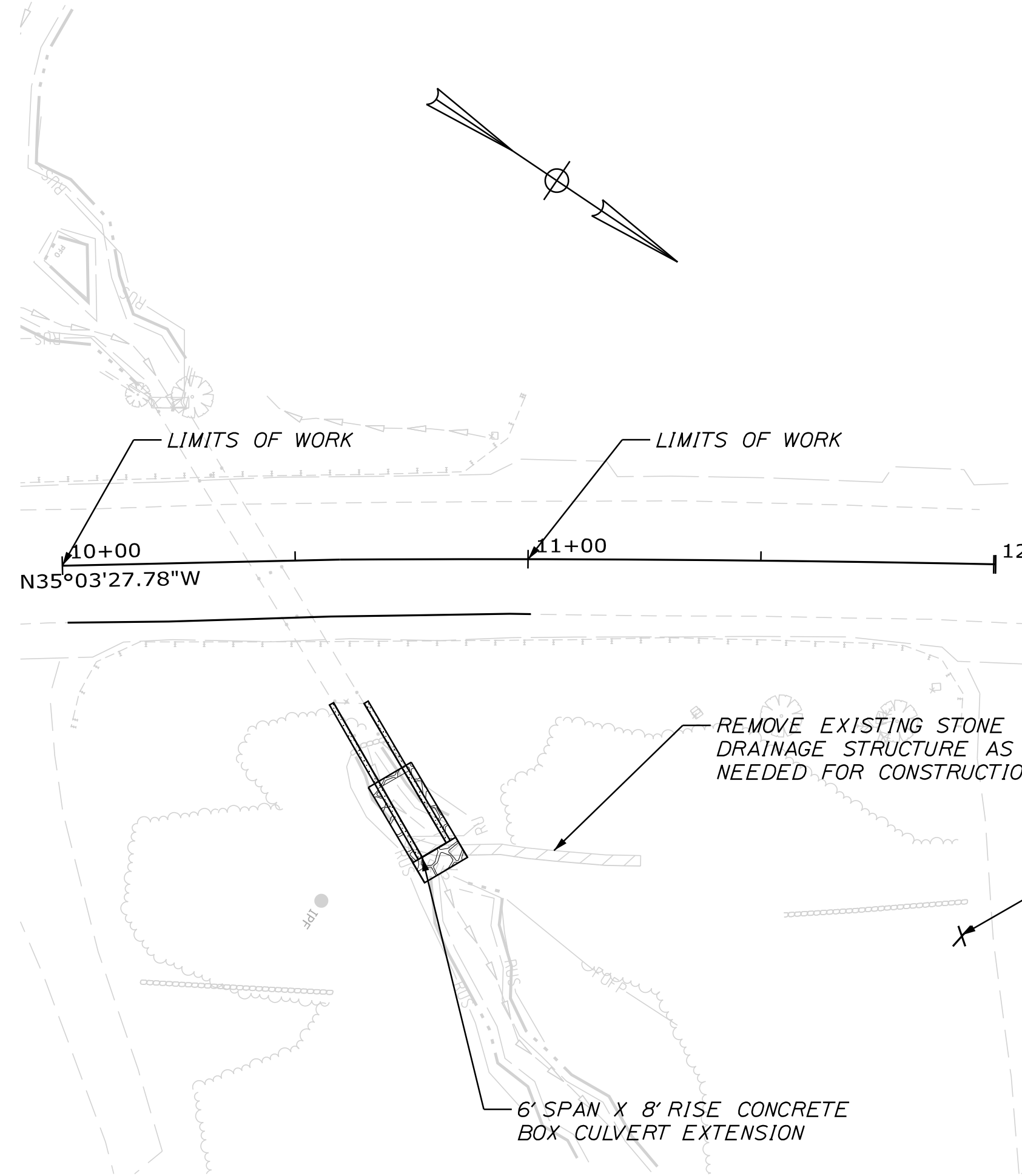
CROSS SECTION VIEW

STATE OF MAINE  
 DEPARTMENT OF TRANSPORTATION  
 020352.00  
 WIN  
 20352.00  
 HIGHWAY PLANS

PROJ. MANAGER	WHITTINGTON	DATE	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGN DETAILED	L. KANDIKO						
CHECKED/REVIEWED							
DESIGN DETAILED							
DESIGN DETAILED							
REVISIONS 1							
REVISIONS 2							
REVISIONS 3							
REVISIONS 4							
FIELD CHANGES							

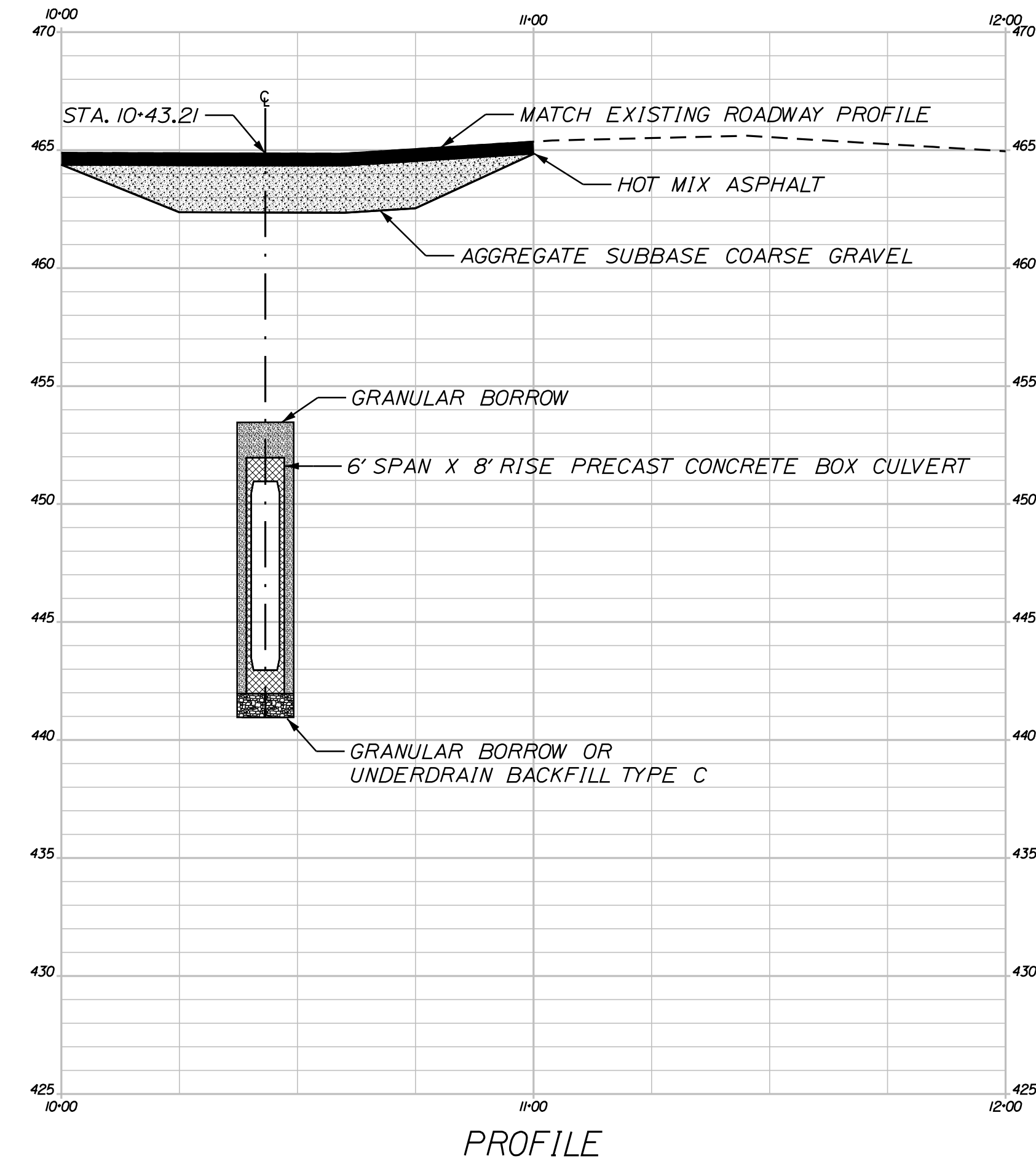
FARMINGTON  
 ROUTE 4  
 BOX CULVERT DETAILS

SHEET NUMBER  
 3  
 OF 8



LOCATION OF TREE PLANTINGS TO BE DETERMINED IN THE FIELD BY THE RESIDENT/MAINEDOT LANDSCAPE PERSONNEL

REMOVED STONES TO BE PILED APPROXIMATELY IN THIS LOCATION - COORDINATE WITH THE RESIDENT  
- PAYMENT FOR STONE RELOCATION TO BE INCIDENTAL TO CULVERT ITEMS



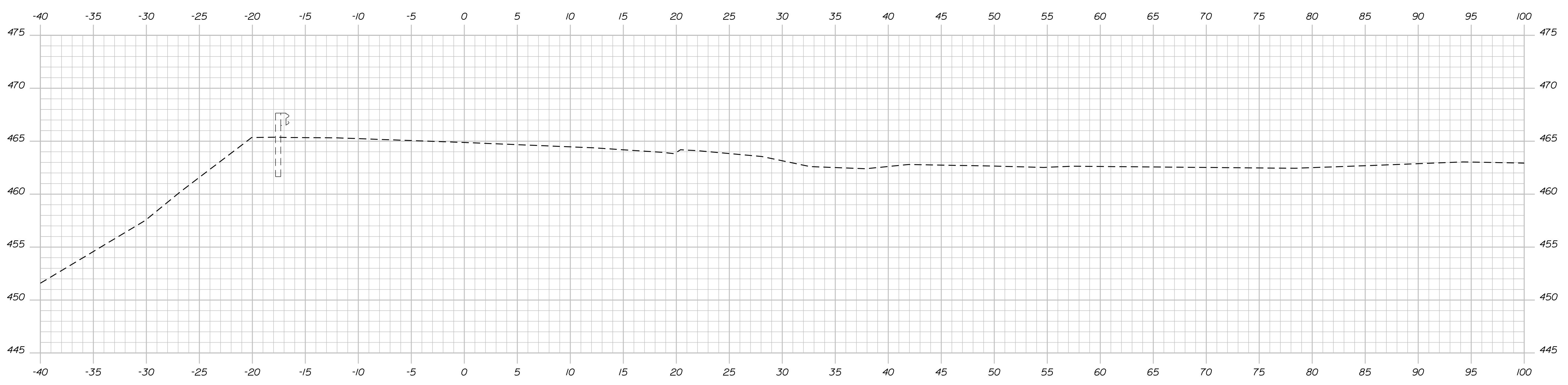
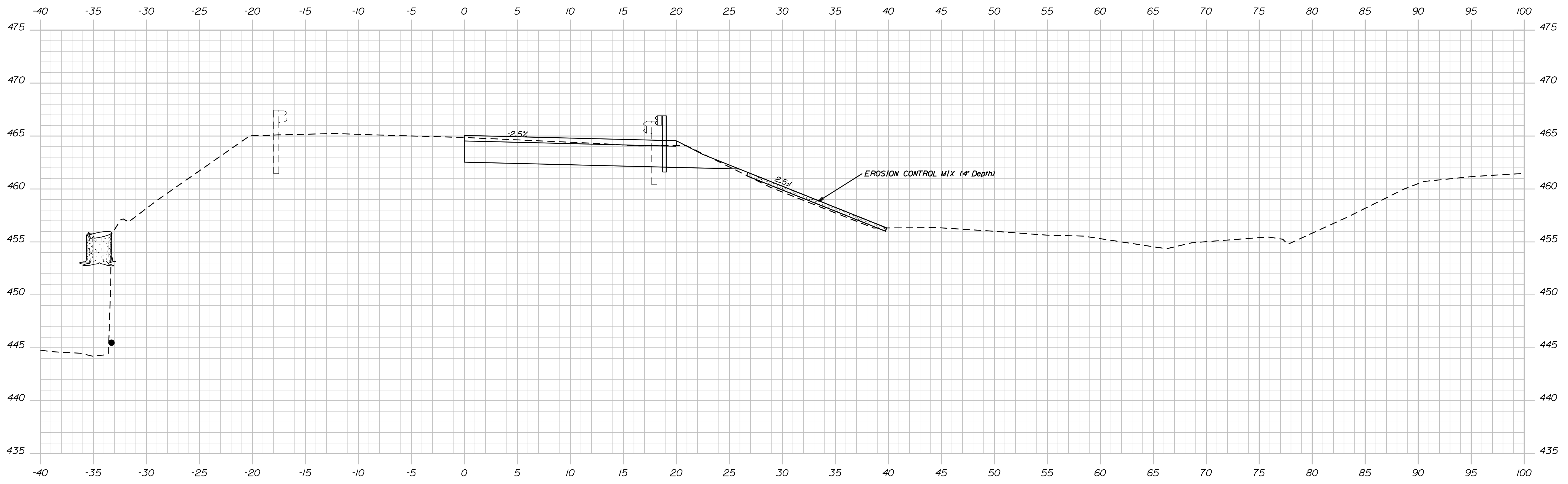
STATE OF MAINE  
DEPARTMENT OF TRANSPORTATION  
020352.00  
WIN  
20352.00  
HIGHWAY PLANS

PROJ. MANAGER/WHITTINGTON	BY	DATE
DESIGN DETAILED L.KANDIKO		
CHECKED/REVIEWED		
DESIGN DETAILED		
DESIGN DETAILED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

FARMINGTON  
ROUTE 4  
PLAN & PROFILE

SHEET NUMBER  
**4**  
OF 8

Filename: ... \00\HIGHWAY\MSTA005\_Xsect.dgn Division: HIGHWAY Username: Lindsey.J.Kandiko Date: 3/22/2017



STATE OF MAINE DEPARTMENT OF TRANSPORTATION		020352.00	WIN 20352.00	HIGHWAY PLANS
FARMINGTON ROUTE 4		CROSS SECTIONS		
SHEET NUMBER		5		
OF 8		OF 8		

PROJ. MANAGER	WHITTINGTON	DATE	BY	DATE
DESIGN DETAILED	L. KANDIKO			
CHECKED-REVIEWED	L. KANDIKO			
DESIGN DETAILED	K. MAGUIRE			
DESIGN DETAILED				
REVISIONS 1				
REVISIONS 2				
REVISIONS 3				
REVISIONS 4				
FIELD CHANGES				

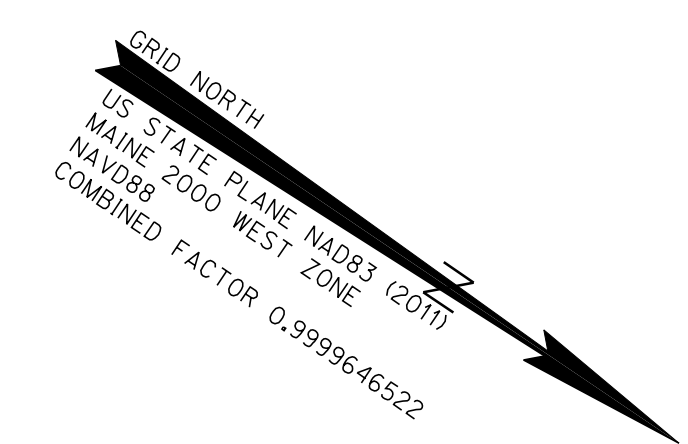
  

SIGNATURE	P.E. NUMBER
DATE	DATE



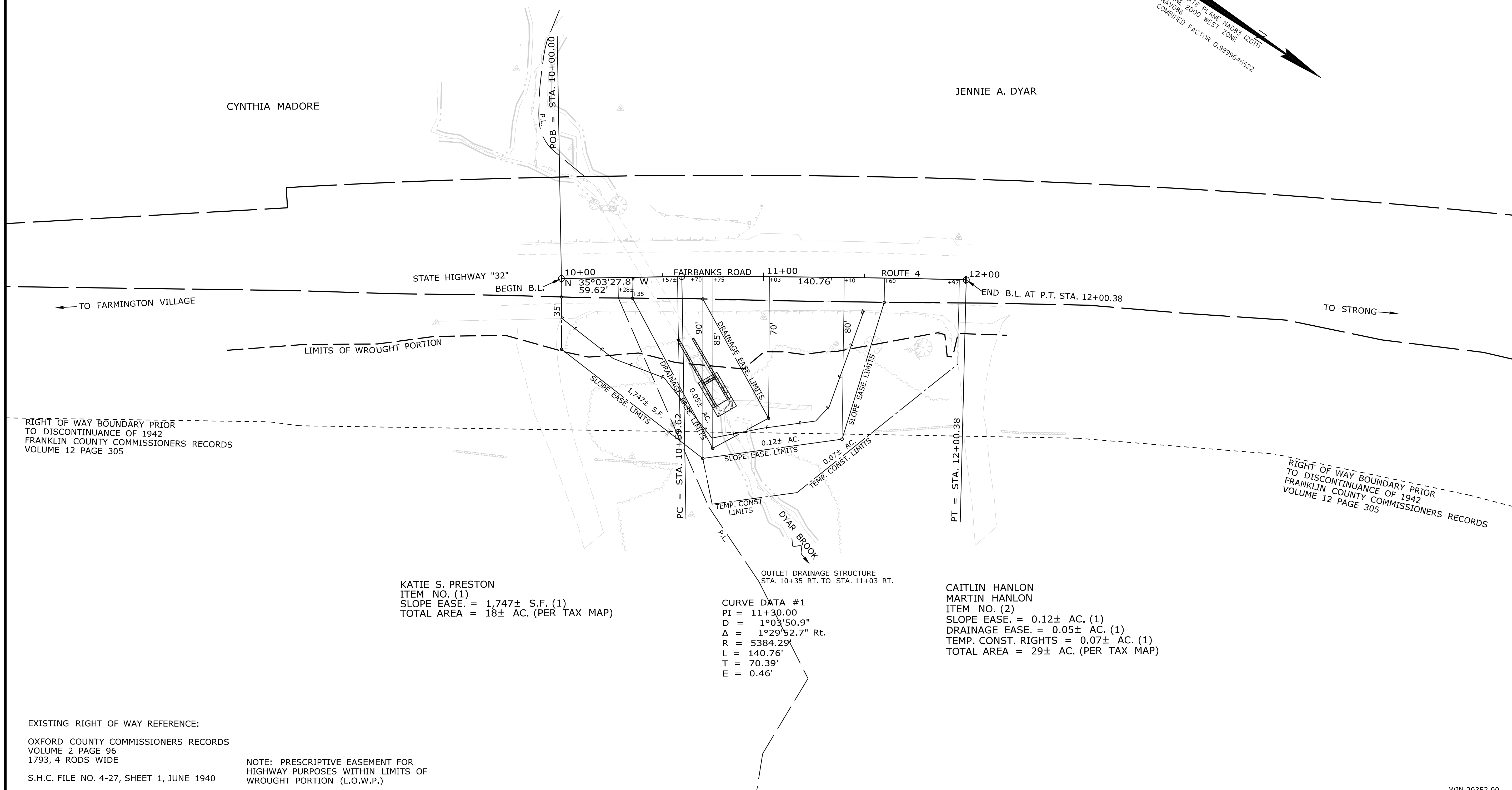


THIS PLAN WAS PREPARED IN CONNECTION WITH THE DEPARTMENT'S ACQUISITION OF REAL PROPERTY FOR TRANSPORTATION PURPOSES. IT CANNOT BE USED TO ESTABLISH LEGAL BOUNDARIES BETWEEN ABUTTING PROPERTY OWNERS.



CYNTHIA MADORE

JENNIE A. DYAR



RIGHT OF WAY BOUNDARY PRIOR TO DISCONTINUANCE OF 1942 FRANKLIN COUNTY COMMISSIONERS RECORDS VOLUME 12 PAGE 305

RIGHT OF WAY BOUNDARY PRIOR TO DISCONTINUANCE OF 1942 FRANKLIN COUNTY COMMISSIONERS RECORDS VOLUME 12 PAGE 305

KATIE S. PRESTON  
ITEM NO. (1)  
SLOPE EASE. = 1,747± S.F. (1)  
TOTAL AREA = 18± AC. (PER TAX MAP)

CURVE DATA #1  
PI = 11+30.00  
D = 1°03'50.9"  
Δ = 1°29'52.7" Rt.  
R = 5384.29'  
L = 140.76'  
T = 70.39'  
E = 0.46'

CAITLIN HANLON  
MARTIN HANLON  
ITEM NO. (2)  
SLOPE EASE. = 0.12± AC. (1)  
DRAINAGE EASE. = 0.05± AC. (1)  
TEMP. CONST. RIGHTS = 0.07± AC. (1)  
TOTAL AREA = 29± AC. (PER TAX MAP)

EXISTING RIGHT OF WAY REFERENCE:  
OXFORD COUNTY COMMISSIONERS RECORDS  
VOLUME 2 PAGE 96  
1793, 4 RODS WIDE  
S.H.C. FILE NO. 4-27, SHEET 1, JUNE 1940

NOTE: PRESCRIPTIVE EASEMENT FOR HIGHWAY PURPOSES WITHIN LIMITS OF WROUGHT PORTION (L.O.W.P.)

**SYMBOLS**

○	(WELL)
—	GRAVING 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
●	PI or BIP (IRON PIPE or PIN FOUND)
□	S.T. (SEPTIC TANK)
△	TRAVEL POINT
—	WATER LINE
—	GAS LINE
—	ELECTRIC LINE
—	TELEPHONE LINE
—	SEWER LINE

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

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

WIN 20352.00

REVISIONS				PLAN FILED IN PLAN BOOK				PAGE COUNTY RECORD				DAVID BERNHARDT COMMISSIONER	STATE HIGHWAY "32"			SHEET NUMBER			
NO.	DATE	DESCRIPTION	BY	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE	NO.	GRANTOR		INSTRUMENT	DATE	BOOK		PAGE	FAIRBANKS ROAD ROUTE 4	FRANKLIN COUNTY
						COND.	2/28/17	3893	266							STATE PROJECT NO. 020352.00			OF 8
																DECEMBER 2014	RIGHT-OF-WAY MAP	D.O.T. FILE NO. 4-XXX	
																SCALE 1" = 25'	SHEET 1 OF 1		

Filename: ... \HIGHWAY\MSTA\008\_RWPLAN1.dgn  
 Division: HIGHWAY  
 Username: Lindsey.J.Kandiko  
 Date: 3/22/2017