

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



LIVERMORE FALLS

ANDROSCOGGIN COUNTY

ROUTE 106

023133.00

PROJECT LENGTH : 0.06 MILES

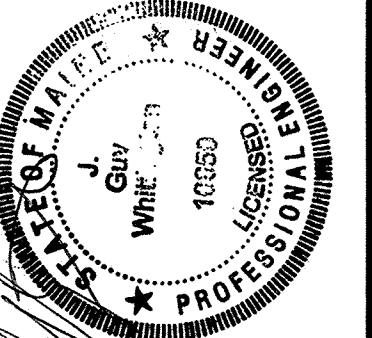
PLAN LEGEND

Town, County, State	Centerline-Existing	Centerline-Proposed
Property Lines	Travelway-Existing	Travelway-Proposed
R/W Lines-Existing	Railroad	
R/W Lines-Proposed	Catch Basins	Existing Proposed
Culvert-Existing	Manholes	Existing Proposed
Culvert Proposed	Proposed Underdrain	
Curbing Existing Proposed	Proposed Ditch	
Type 1	Existing Ditch	
Type 3	Utility Poles	Existing Proposed
Type 5	Fire Hydrants	Existing Proposed
Outline of Bodies of Water	Existing Water Line	
Boring	Existing San. Sewer	
Pavement Core	Existing San. Sewer Manhole	
Test Pit	Guardrail-Existing	
Probe	Guardrail-Proposed	
	Guardrail-Cable, Other	
	Exposed Bedrock	
	Buildings	
	Trees	Conifer Deciduous
	Tree Line	
	Clearing Limit Line	

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
	COMMISSIONER: [Signature]	11-15-18
	CHIEF ENGINEER: [Signature]	11-15-18



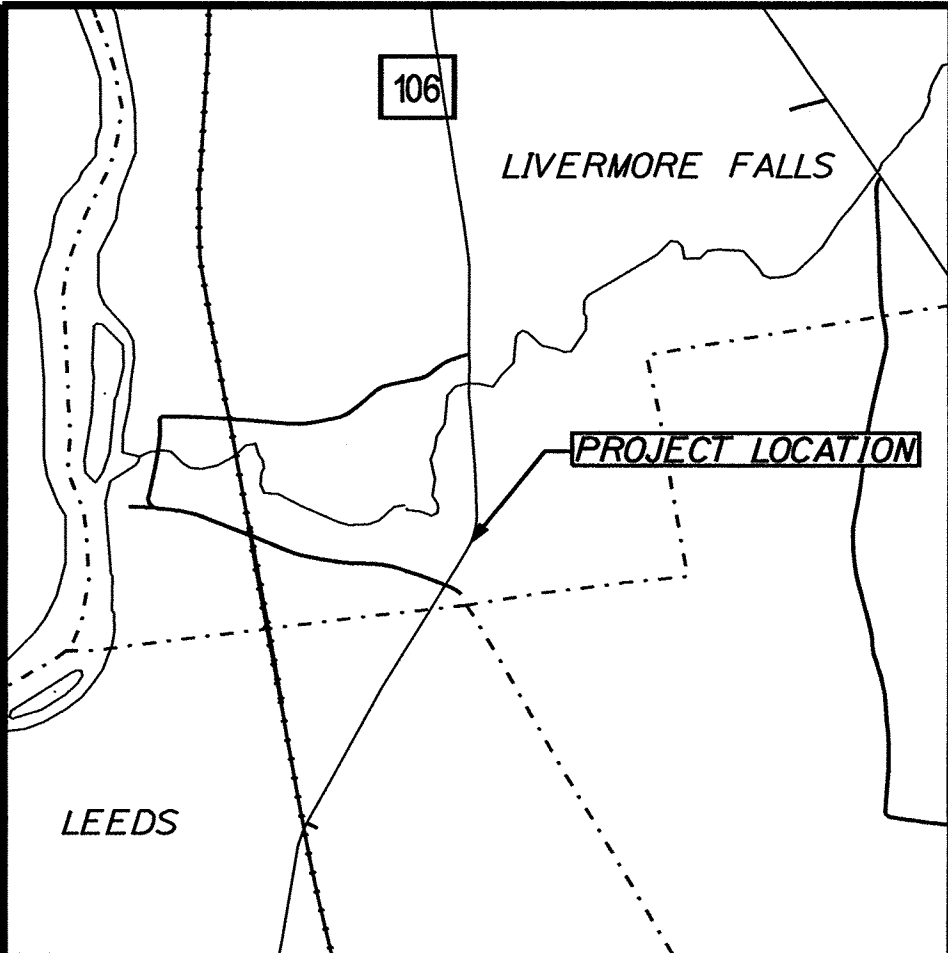
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PROJECT INFORMATION	PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
HIGHWAY PROGRAM	J.G. WHITTINSON	L. KANDIKO					

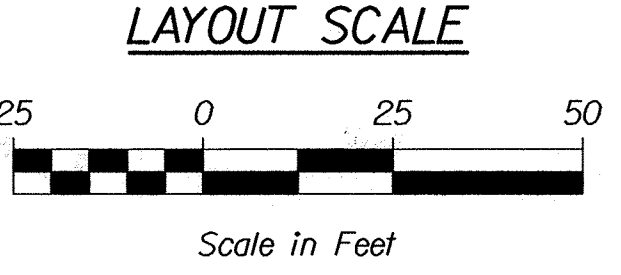
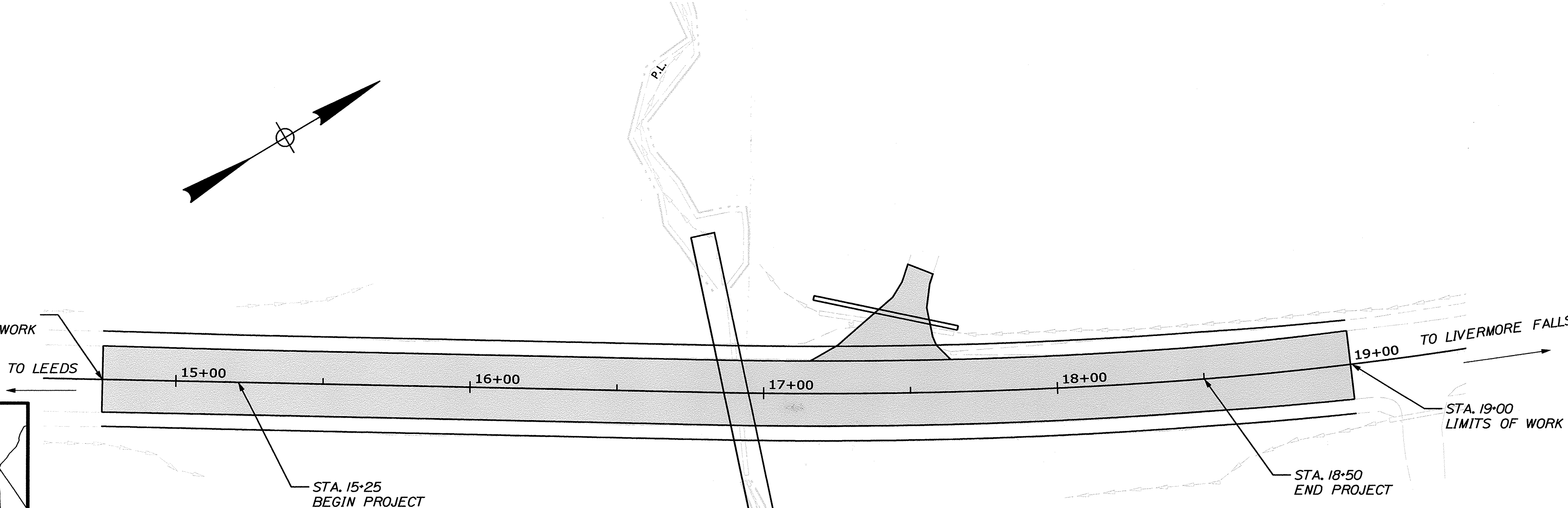
LIVERMORE FALLS ROUTE 106 TITLE SHEET

SHEET NUMBER
1
OF 18

WIN 23133.00 023133.00



Scale in Miles
LOCATION MAP



TRAFFIC DATA

Current (2019) AADT	1250
Future (2031) AADT	1330
DHV - % of AADT	11%
Design Hour Volume	146
% Heavy Trucks (AADT)	12%
Directional Distribution (DHV)	59%
Design Speed (mph)	50
Functional Class	MAJOR COLLECTOR
Corridor Priority	3

PROJECT LOCATION:	0.12 OF A MILE NORTH OF STRICKLAND LOOP ROAD CROSS CULVERT #: 123152
PROGRAM AREA:	PROJECT DEVELOPMENT
SCOPE OF WORK:	REHABILITATION - LARGE CULVERT REPLACEMENT

Date:11/18/2018

Username: lindsey.j.kondiko

Division: HIGHWAY

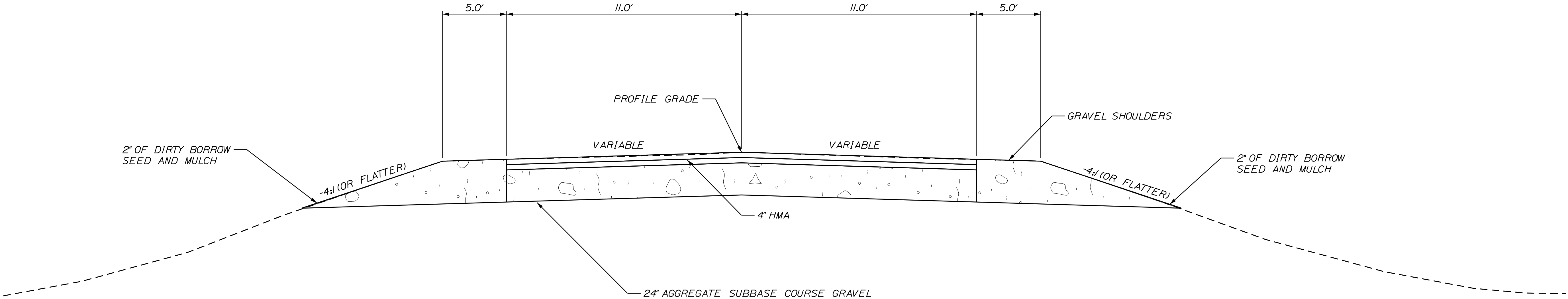
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GENERAL NOTES

1. ALL CLEARING SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE. THE ACTUAL LINES FOR CLEARING SHALL BE ESTABLISHED IN THE FIELD BY THE CONTRACTOR AS INDICATED ON THE PLANS AND APPROVED BY THE RESIDENT.
2. DRIVEWAY FILL SIDE SLOPES SHALL BE THE SAME AS THE NON-GUARDRAIL FILL SLOPES UNLESS OTHERWISE NOTED ON THE PLANS.
3. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN ACCEPTABLE WASTE AREAS REVIEWED BY THE RESIDENT. GRADING, SEEDING AND MULCHING OF WASTE AREAS SHALL BE CONSIDERED INCIDENTAL.
4. RESIDENTIAL PAVED ENTRANCES SHALL BE CONSTRUCTED WITH: 2 INCHES HOT MIX ASPHALT AND 12 INCHES AGGREGATE SUBBASE COURSE - GRAVEL.
5. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES. FOR COMPARABLE CORRUGATED SIZES SEE THE DRAINAGE TABULATION.
6. 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.
7. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. PAYMENT FOR THIS WORK WILL BE MADE UNDER THE APPROPRIATE RENTAL ITEMS.
8. 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.
9. THE PROJECT GEOTECHNICAL REPORT TITLED GEOTECHNICAL DESIGN REPORT FOR THE REPLACEMENT OF CROSS CULVERT 123152, ROUTE 106, LIVERMORE FALLS, MAINE, SOILS REPORT 2018-17, DATE CAN BE ACCESSED AT THE MAINEDOT WEBSITE [HTTP://WWW.MAINE.GOV/MDOT/CONTRACTORS/](http://www.maine.gov/mdot/contractors/).
10. GEOTECHNICAL INFORMATION FURNISHED OR REFERRED TO IN THE BID DOCUMENTS IS FOR THE USE OF THE BIDDERS. NO ASSURANCE IS GIVEN THAT THE INFORMATION OR INTERPRETATIONS WILL BE REPRESENTATIVE OF THE ACTUAL SUBSURFACE CONDITIONS THROUGHOUT THE CONSTRUCTION SITE. MAINEDOT WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSION DRAWN FROM THE GEOTECHNICAL INFORMATION. THE BORING LOGS PROVIDED IN THE BID DOCUMENTS (IF ANY) PRESENT FACTUAL AND INTERPRETIVE SUBSURFACE INFORMATION COLLECTED AT DISCRETE LOCATIONS. DATA PROVIDED MAY NOT BE REPRESENTATIVE OF THE SUBSURFACE CONDITIONS BETWEEN BORING LOCATIONS.
11. AREAS REQUIRING FILL ON THE PROJECT WILL COME FROM SUITABLE EXCAVATION FROM EXCAVATION, DITCH AND INSLOPE OR EQUIPMENT RENTAL AREAS.
12. ESTIMATED QUANTITIES FOR REQUIRED STRUCTURAL EARTH EXCAVATION, DRAINAGE AND MINOR STRUCTURES ARE INFORMATIONAL ONLY AND REPRESENT THE APPROXIMATE MINIMUM QUANTITY REQUIRED TO INSTALL DRAINAGE STRUCTURES. ADDITIONAL EXCAVATION FOR THE CONTRACTOR'S CONVENIENCE OR TO COMPLY WITH BACKSLOPING REQUIREMENTS WILL NOT BE PAID FOR DIRECTLY BUT WILL BE CONSIDERED INCIDENTAL TO THE RELATED DRAINAGE ITEMS.
13. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT AND LAYOUT OF WORK BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.

CONSRUCTION NOTES

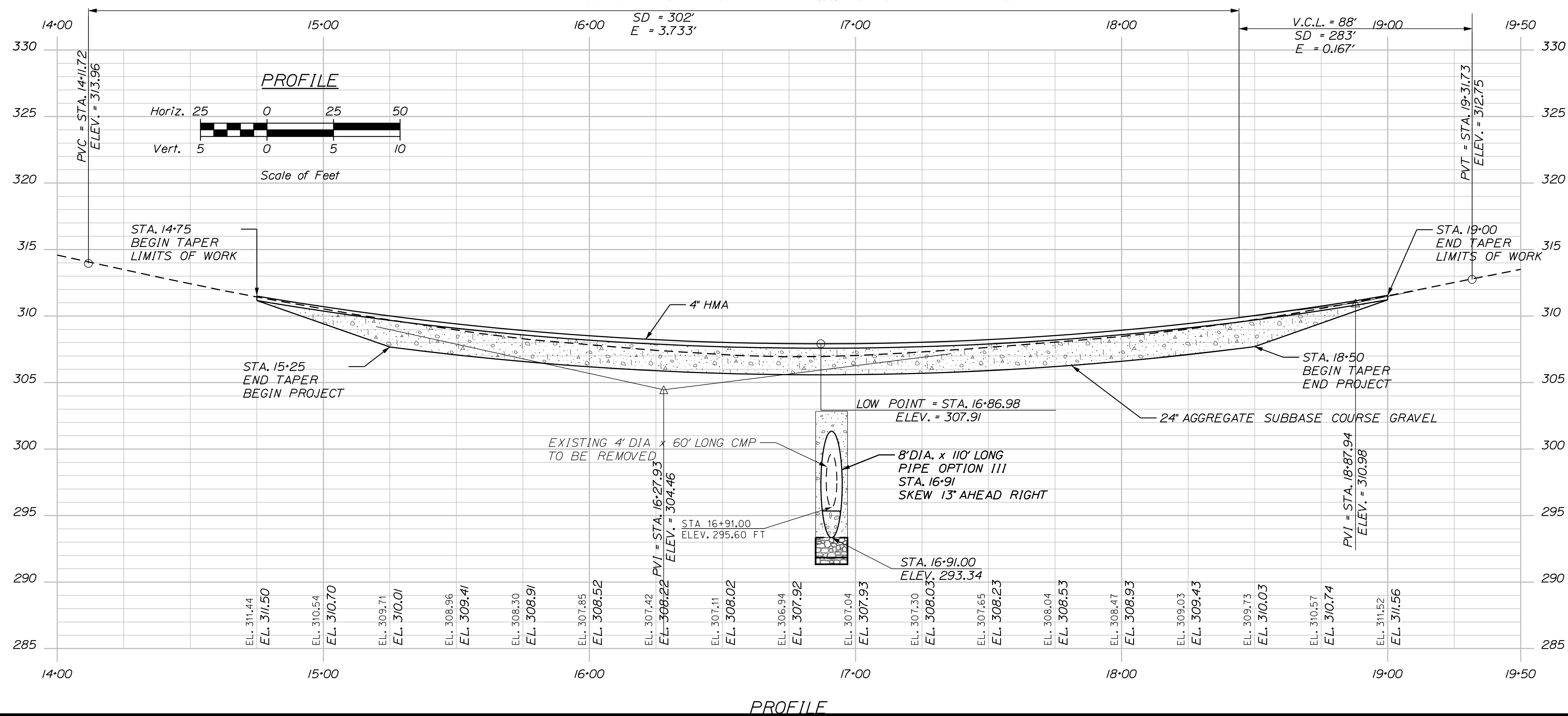
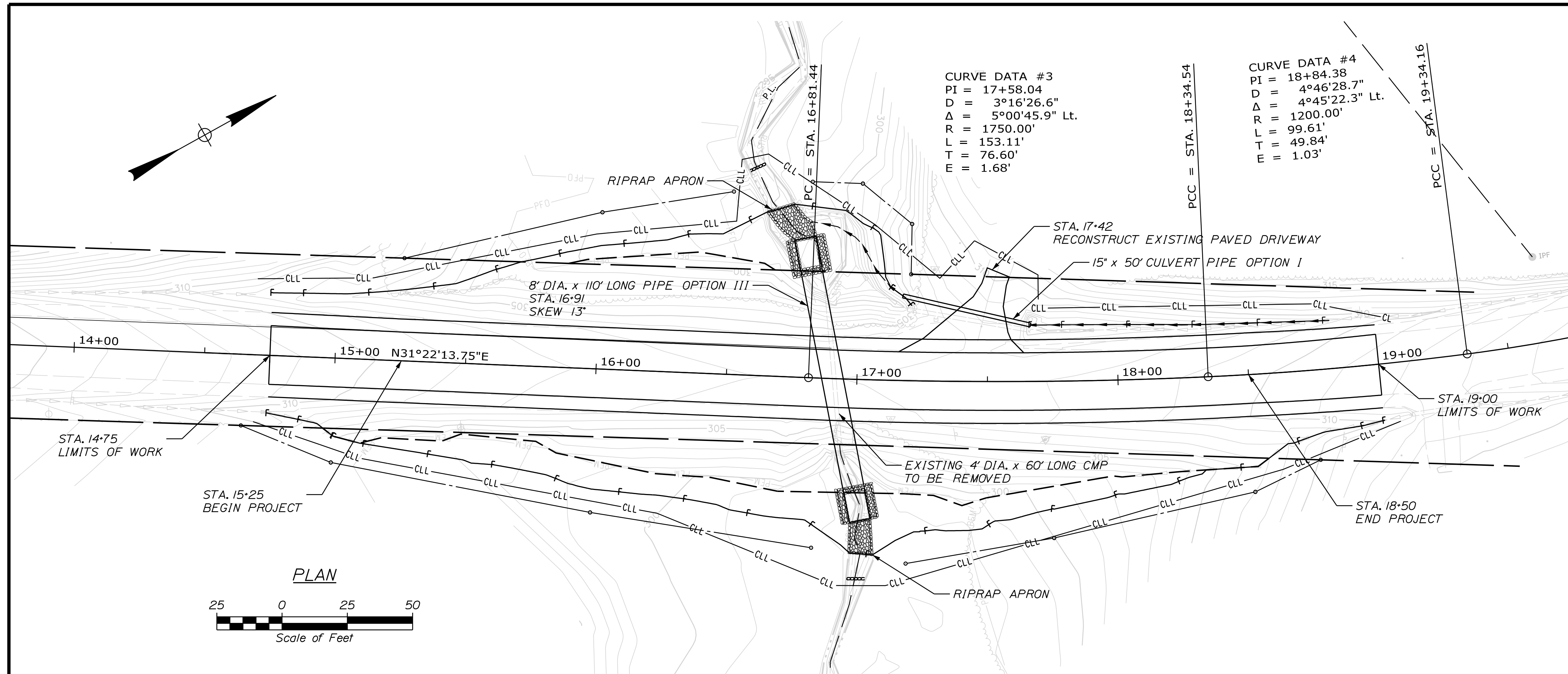
1. JOINTS BETWEEN EXISTING AND PROPOSED PAVEMENT SHALL BE SAW CUT. PAYMENT WILL BE CONSIDERED INCIDENTAL TO THE PAVING ITEMS.
2. DREDGE MATERIAL HAS BEEN CALCULATED TO BE APPROXIMATELY 70CY. THIS IS INCLUDED FOR ESTIMATION PURPOSES ONLY. THE CONTRACTOR SHALL REUSE THIS MATERIAL ON SITE. IT MAY BE USED IN THE SPECIAL FILL PROVIDED IT MEETS THE REQUIREMENTS OF SPECIAL PROVISION 203.33 - SPECIAL FILL. IF THE MATERIAL IS NOT SUITABLE FOR THIS USE, IT MAY BE USED IN PLACE OF DIRTY BORROW AS DIRECTED BY THE RESIDENT. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
3. DRAINAGE
 - 603.16 15" PIPE OPTION 1
 - STA. 17+17 LT - STA. 17+67 LT
4. NO HAY MULCH WILL BE USED ON THE PROJECT.



TYPICAL SECTION
NOT TO SCALE

NOT TO SCALE

LIVERMORE FALLS ROUTE 106		PROJ. MANAGER J. G. WHITTINGTON		BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
		DESIGN-DETAILED	L. KANDIKO					
		CHECKED-REVIEWED						
		DESIGN-DETAILED	C. RUSSELL	T. WHITE	MAR 2018			
GENERAL NOTES, CONSTRUCTION NOTES, & TYPICAL SECTIONS		DESIGN-DETAILED	C. RUSSELL	T. WHITE	MAR 2018	SIGNATURE		
		DESIGN-DETAILED	C. RUSSELL	T. WHITE	MAR 2018		P.E. NUMBER	
		DESIGN-DETAILED	C. RUSSELL	T. WHITE	MAR 2018			
		DESIGN-DETAILED	C. RUSSELL	T. WHITE	MAR 2018			DATE
		DESIGN-DETAILED	C. RUSSELL	T. WHITE	MAR 2018			
SHEET NUMBER 2 OF 18		REVISIONS 1				WIN WIN 23133.00 HIGHWAY PLANS		
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		REVISIONS 4						
		FIELD CHANGES						



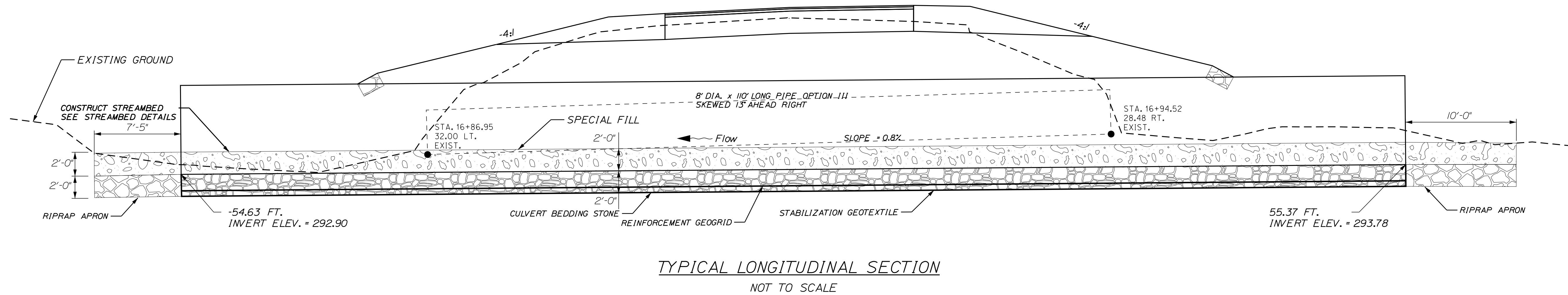
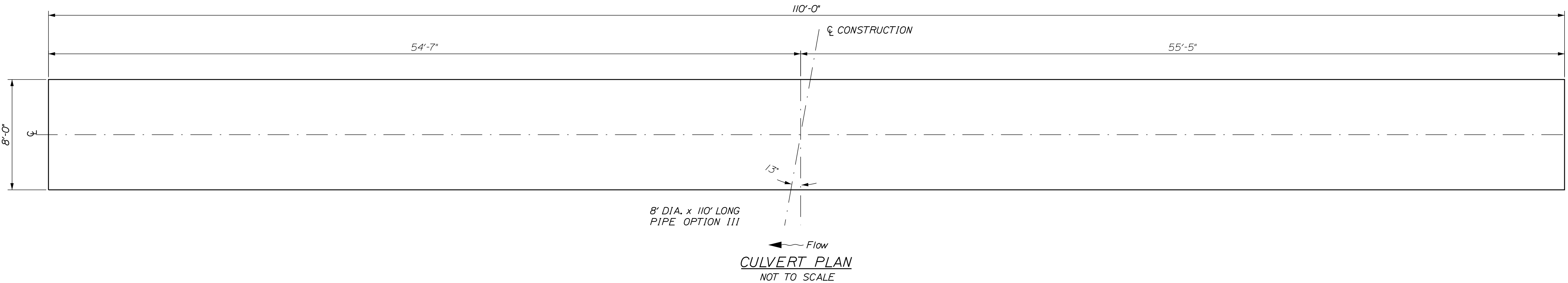
PROJ. MANAGER J. G. WHITTINGTON	BY	DATE
DESIGN-DETAILED	L. KANDINO	
CHECKED-REVIEWED		
DESIGN2-DETAILED2	T. WHITE	MAR 2018
DESIGN3-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
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P.E. NUMBER		
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LIVERMORE FALLS
 ROUTE 106
 PLANS

SHEET NUMBER

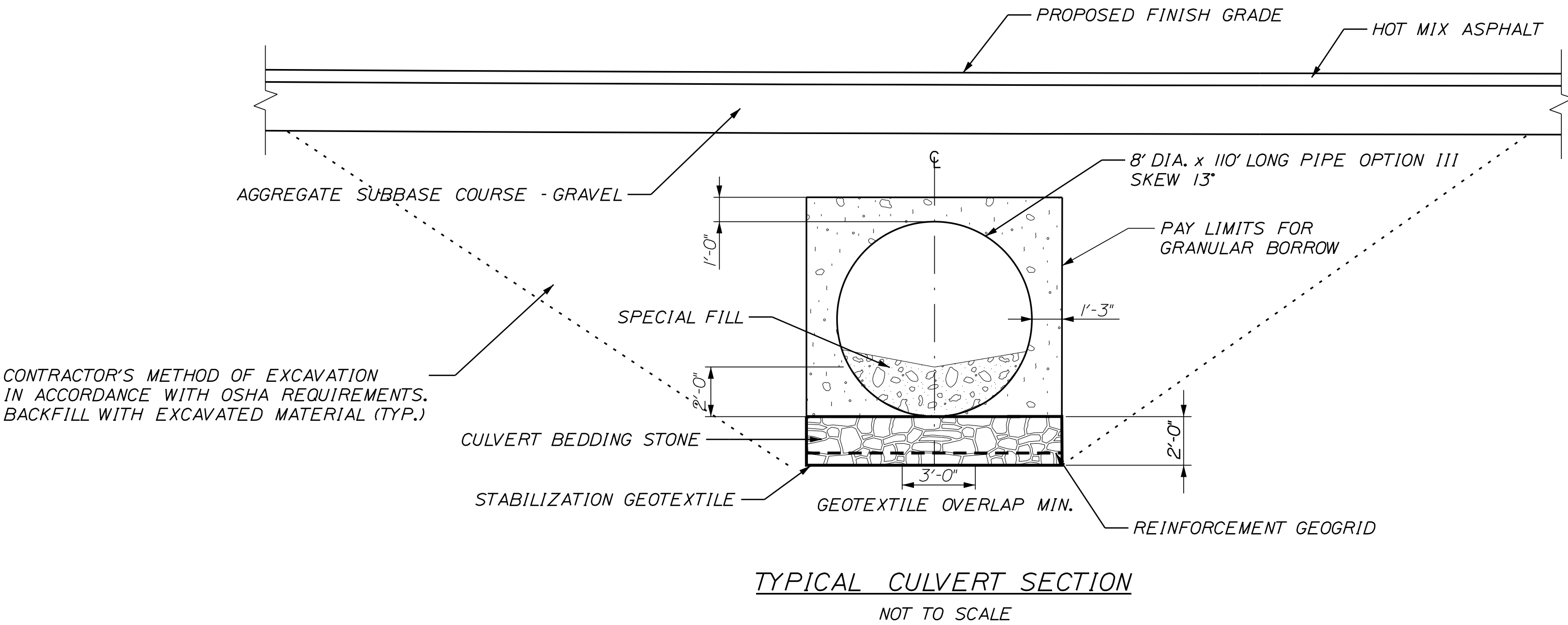
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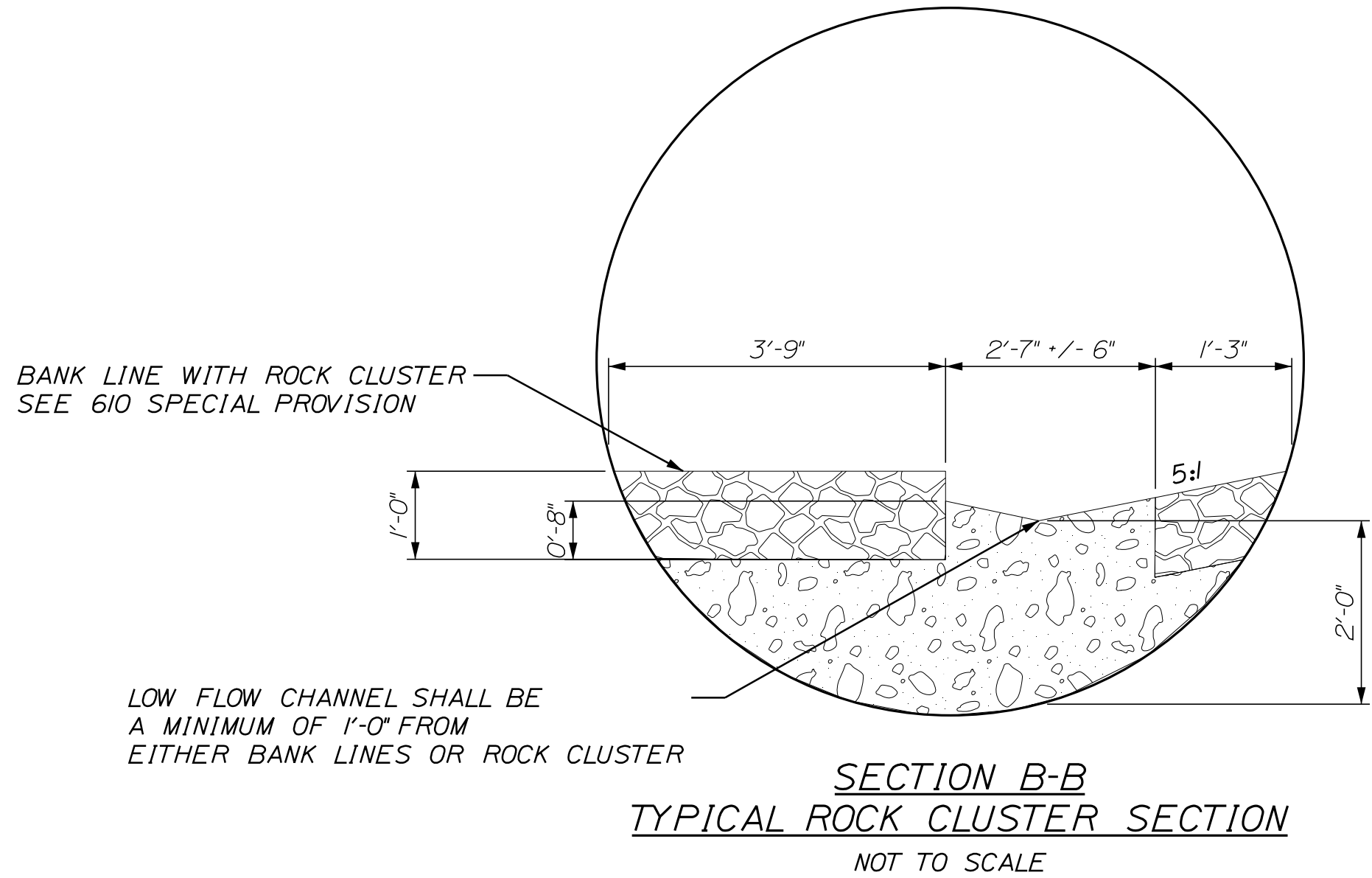
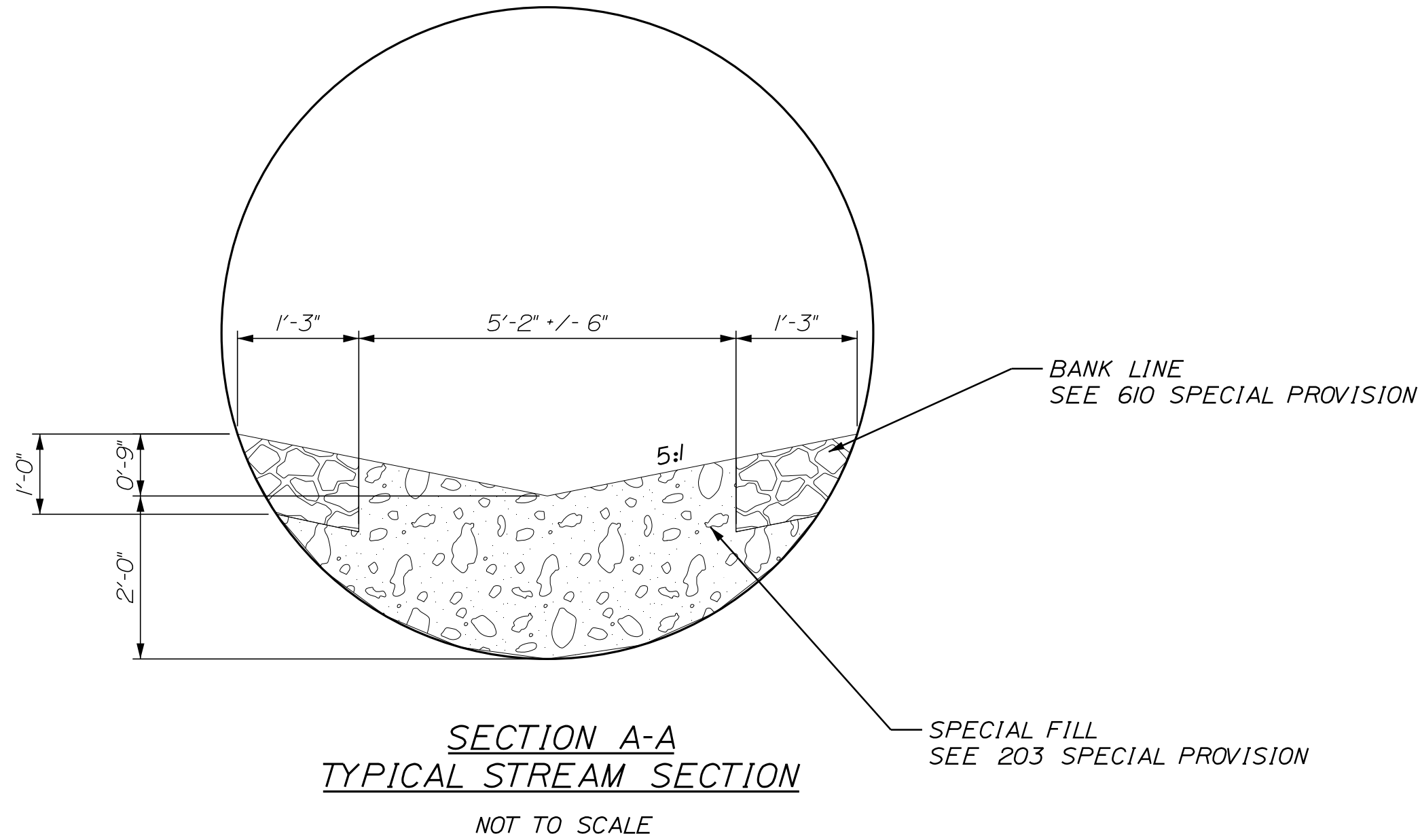
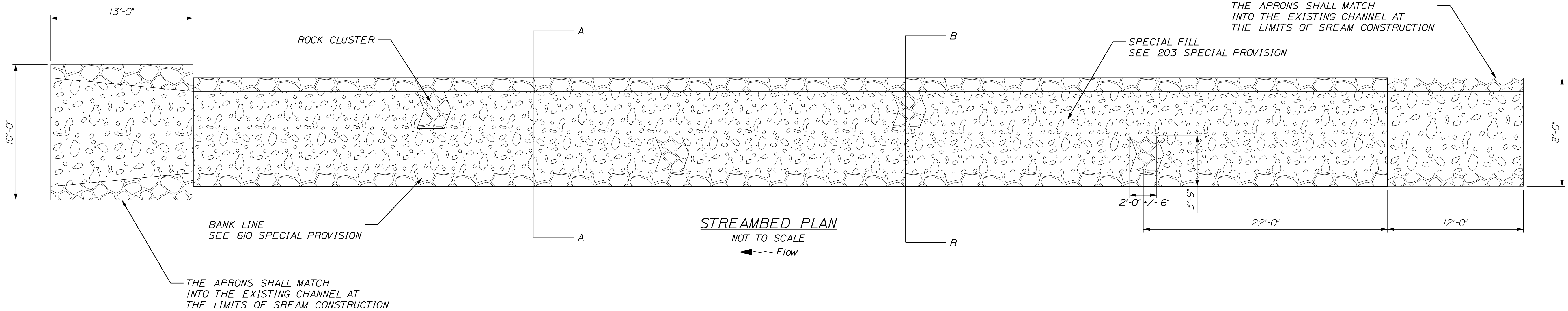


CULVERT NOTES

1. THE CULVERT SHALL BE LINED WITH 2 FEET OF SPECIAL FILL IN ACCORDANCE WITH SPECIAL PROVISION 203.
2. CONSTRUCTION, HANDLING AND ASSEMBLY OF THE PIPE SHALL BE IN ACCORDANCE WITH MAINEDOT STANDARD SPECIFICATION 603, SPECIAL PROVISION 603 AND THE MANUFACTURER'S SPECIFICALTIONS AS APPLICABLE.
3. THE PIPE SHALL BE BEDDED ON A 2' THICK GEOTEXTILE WRAPPED, GEOGRID REINFORCED CRUSHED STONE MAT. PAYMENT WILL BE MADE UNDER THE APPROPRIATE CONTRACT ITEMS.
4. BEDDING MATERIAL SHALL MEET THE REQUIREMENTS OF STANDARD SPECIFICATION 203.55 - CRUSHED BEDDING STONE.
5. STABILIZATION GEOTEXTILE SHALL BE LAPPED A MINIMUM OF 3'.
6. VOIDS IN RIPRAP APRON SHALL BE FILLED WITH SPECIAL FILL, WATER-IN AND TAMPED.
7. THE FURNISHING AND PLACING OF BACKFILL MATERIAL BETWEEN THE GRANULAR BORROW PAY LIMIT AND THE NORMAL SUBGRADE LINE WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL TO THE WORK. BACKFILL MATERIAL SHALL BE FROM SUITABLE EXCAVATION WITHIN THE PROJECT LIMITS, AS DIRECTED BY THE RESIDENT.

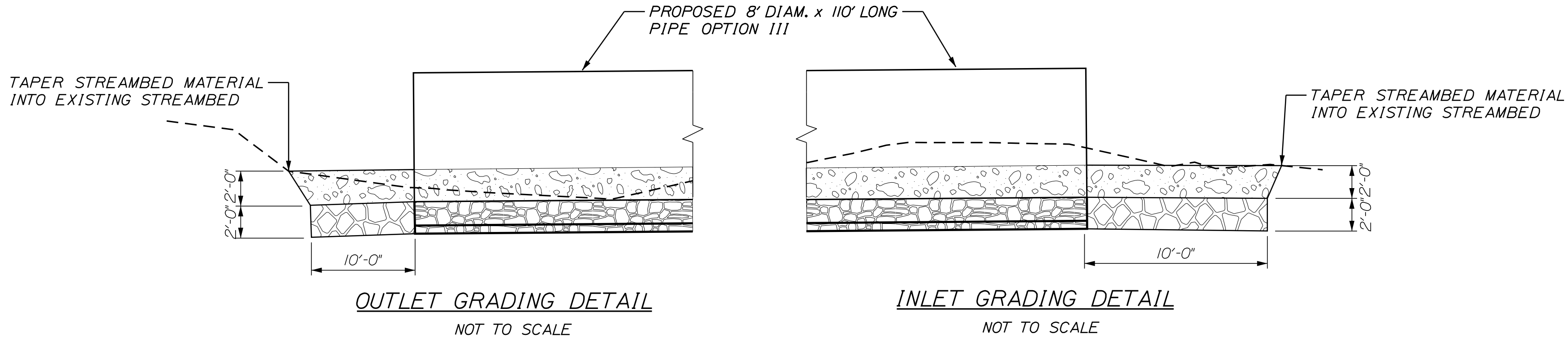


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LIVERMORE FALLS		ROUTE 106		CULVERT DETAILS		SHEET NUMBER		4	
PROJ. MANAGER J. G. WHITTINGTON		BY		DATE		SIGNATURE		P.E. NUMBER	
DESIGNED-DETAILED L. KANDIKO		CHECKED-REVIEWED T. WHITE		DESIGNED-DETAILED C. RUSSELL		REVISIONS 1		REVISIONS 2	
REVISIONS 3		REVISIONS 4		FIELD CHANGES		DATE		DATE	
OF 18									

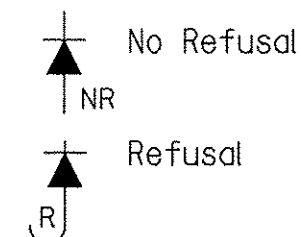
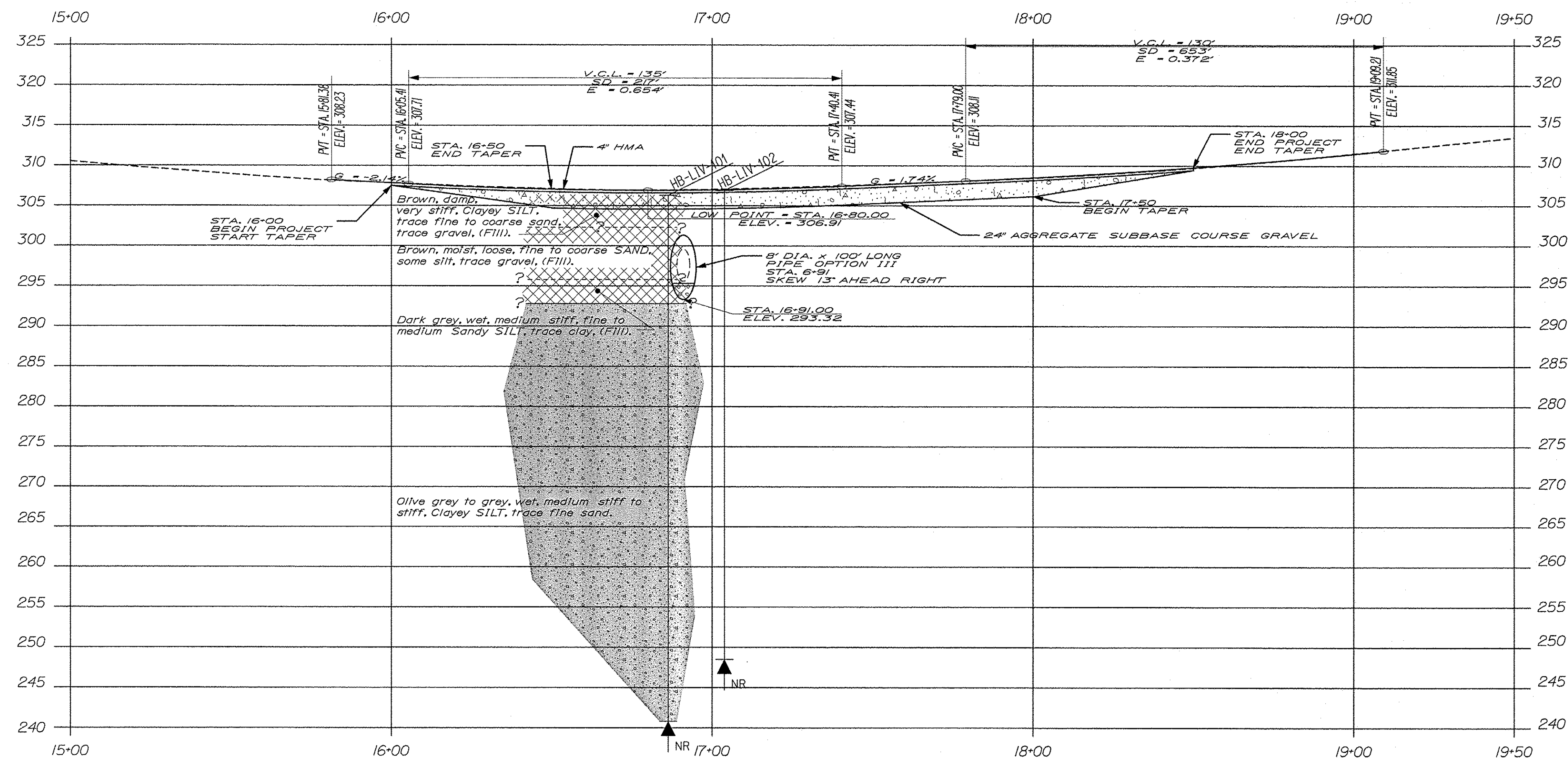


STREAMBED NOTES

- 1.BANK LINES SHALL BE CONSTRUCTED IN ACCORDANCE TO SPECIAL PROVISION 610 - STREAM CHANNEL ROCK
- 2.SPECIAL FILL SHALL BE CONSTRUCTED IN ACCORDANCE TO SPECIAL PROVISION 203 - SPECIAL FILL
- 3.SPECIAL FILL SHALL BE PLACED IN THE CULVERT SO AS TO NOT DAMAGE THE CULVERT. ANY DAMAGE SHALL BE REPAIRED TO THE SATISFACTION OF THE RESIDENT AT THE CONTRACTOR'S EXPENSE.
- 4.THE CONTRACTOR SHALL RELEASE THE COFFERDAMS IN A MANNER SO AS TO NOT DAMAGE OR MOVE THE STREAMBED MATERIAL. ANY DAMAGE SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- 5.PAYMENT FOR ANY NECESSARY GRADING AT THE INLET OR OUTLET WILL BE CONSIDERED INCIDENTAL TO ITEM 203 - SPECIAL FILL.
- 6.DIMENSIONS WITHOUT TOLERANCES ARE INTENDED TO BE NOMINAL.NO FINE GRADING OF THE STREAMBED WILL BE REQUIRED.



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		023133.00		WIN 23133.00		HIGHWAY PLANS	
LIVERMORE FALLS		ROUTE 106		SHEET NUMBER		5		OF 18	
STREAMBED DETAILS		PROJ. MANAGER J. G. WHITTINGTON		BY		DATE		SIGNATURE	
		DESIGN-DETAILED L. KANDIKO		T. WHITE		MAR 2018		P.E. NUMBER	
		DESIGN-REVIEWED C. RUSSELL						DATE	
		DESIGN-DETAILED							
		REVISIONS 1							
		REVISIONS 2							
		REVISIONS 3							
		REVISIONS 4							
		FIELD CHANGES							



PROFILE

SCALE

Vertical Scale has been reduced by $\frac{1}{2}$ its original.

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.

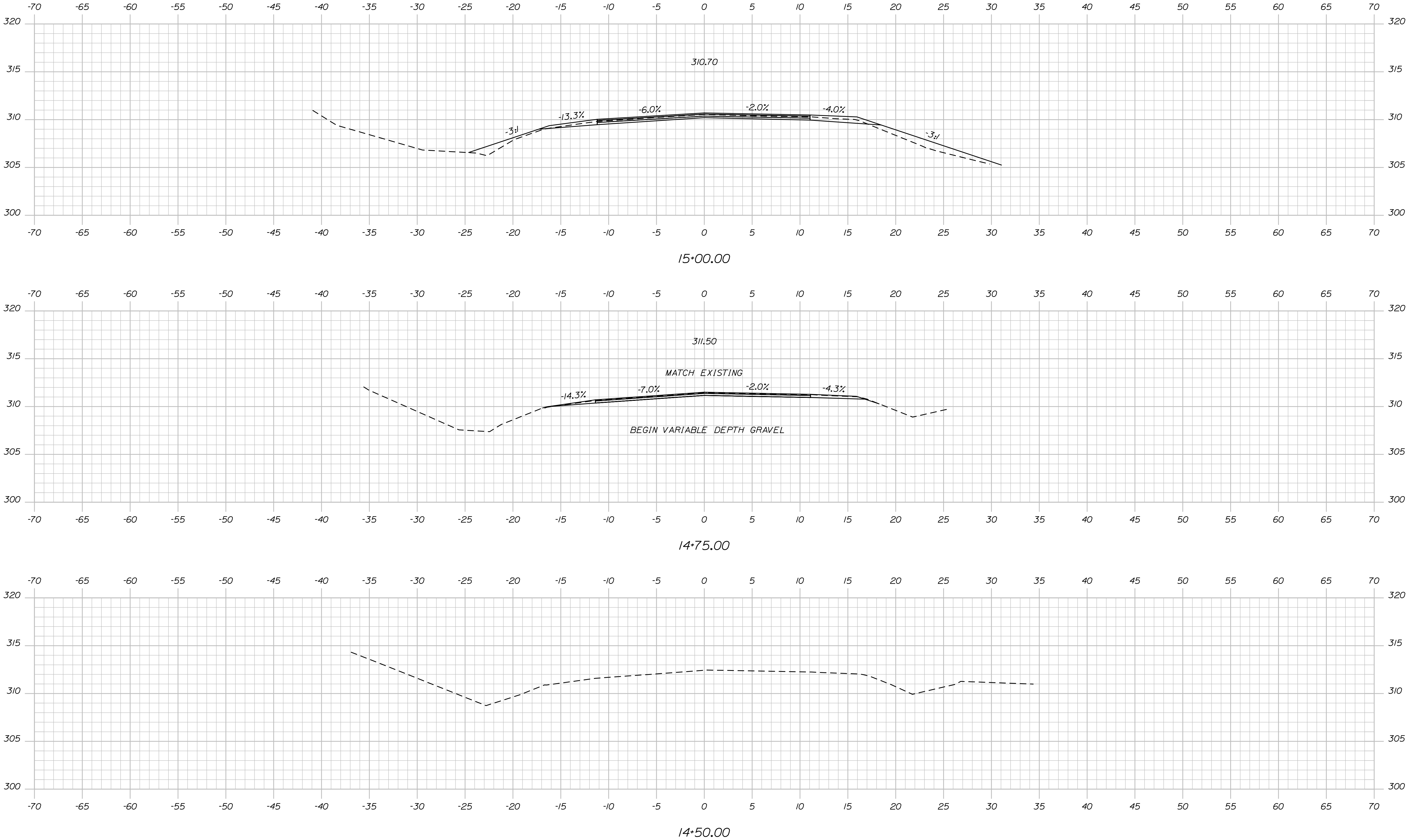
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Date:11/8/2018

Username: lindsey.j.kondiko

Division: HIGHWAY

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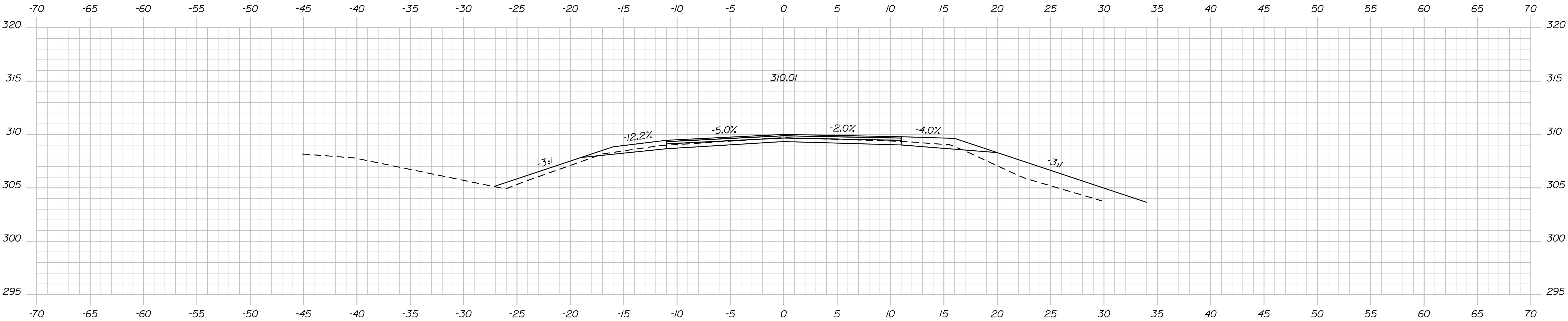
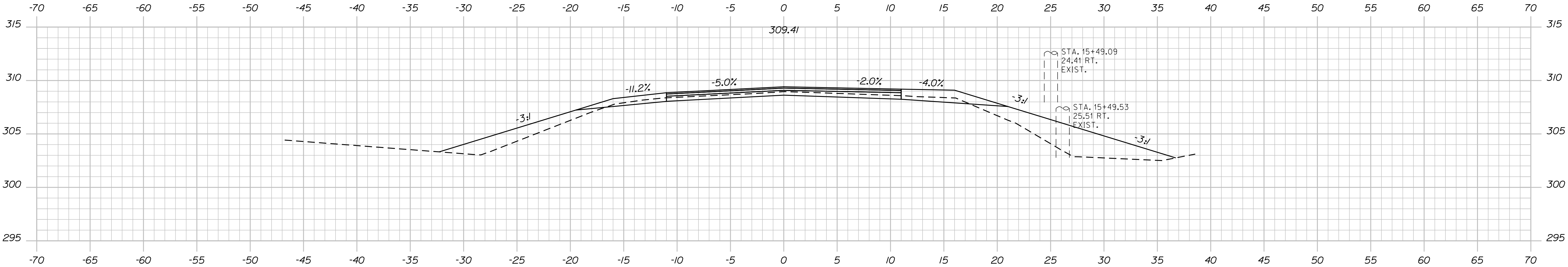
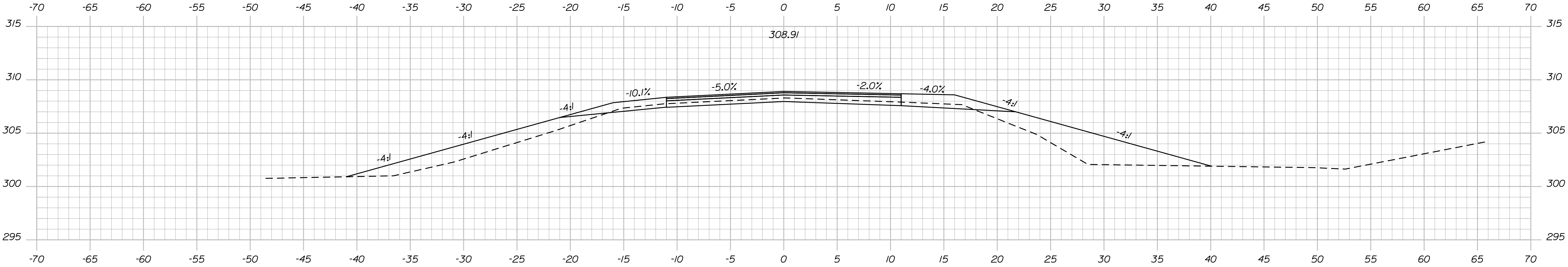
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		T. WHITE					
		C. RUSSELL					
PROJ. MANAGER J. G. WHITTINGTON		BY		DATE		FIELD CHANGES	
DESIGN-DETAILED L. KANDIKO							
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Date:11/8/2018

Username: lindsey.j.kondiko

Division: HIGHWAY

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PROJ. MANAGER	J. G. WHITTINGTON	BY	DATE
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LIVERMORE FALLS

ROUTE 106

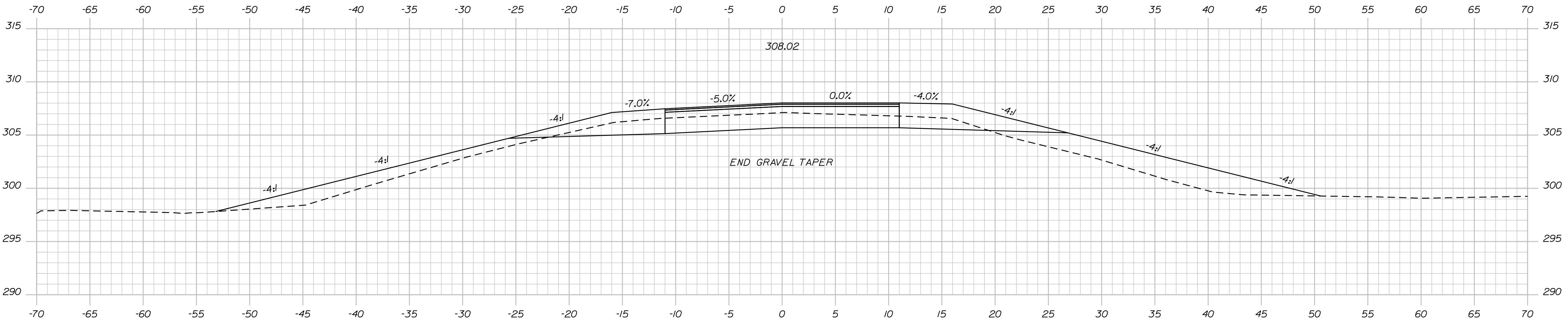
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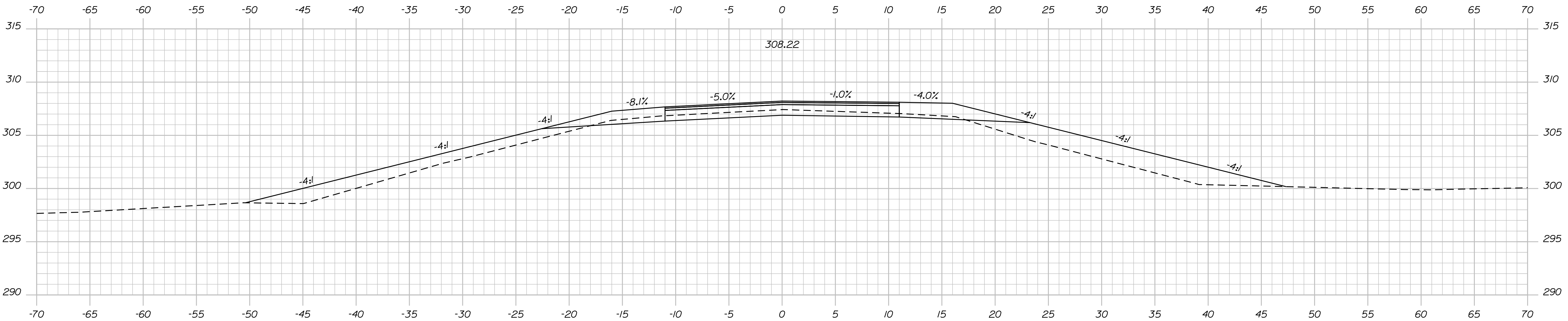
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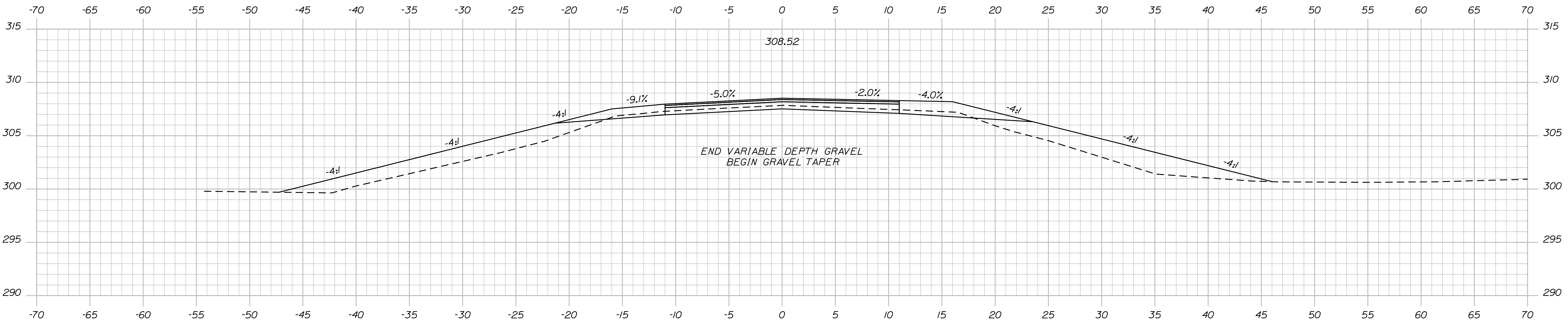
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16+50.00



16+25.00



16+00.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
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	WIN	HIGHWAY PLANS

PROJ. MANAGER J. G. WHITTINGTON	BY	DATE	SIGNATURE
CHECKED-REVIEWED L. KANDIKO			
DESIGNED-DETAILER C. RUSSELL		MAR 2018	
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FIELD CHANGES			

LIVERMORE FALLS ROUTE 106	CROSS SECTIONS

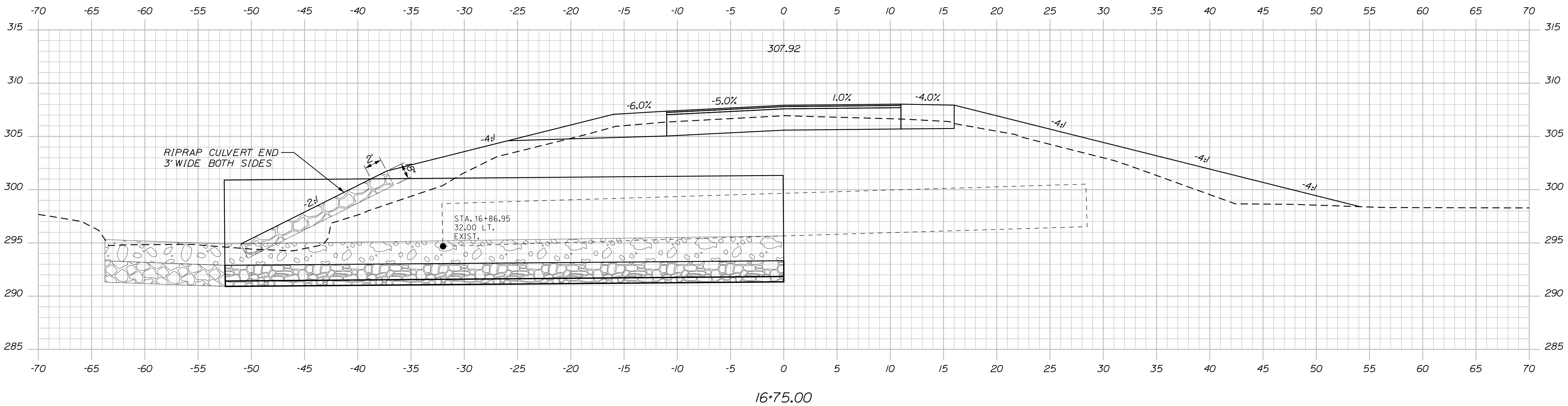
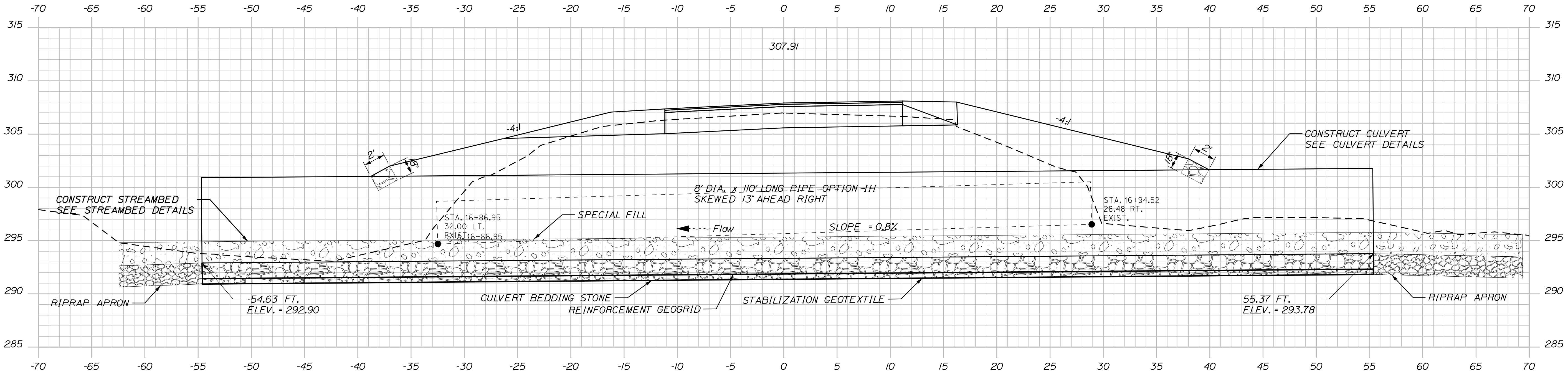
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OF 18

Date:11/8/2018

Username: lindsey.j.kondiko

Division: HIGHWAY

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DATE	BY	PROJ. MANAGER	CHECKED	DESIGNED	REVISIONS	FIELD CHANGES
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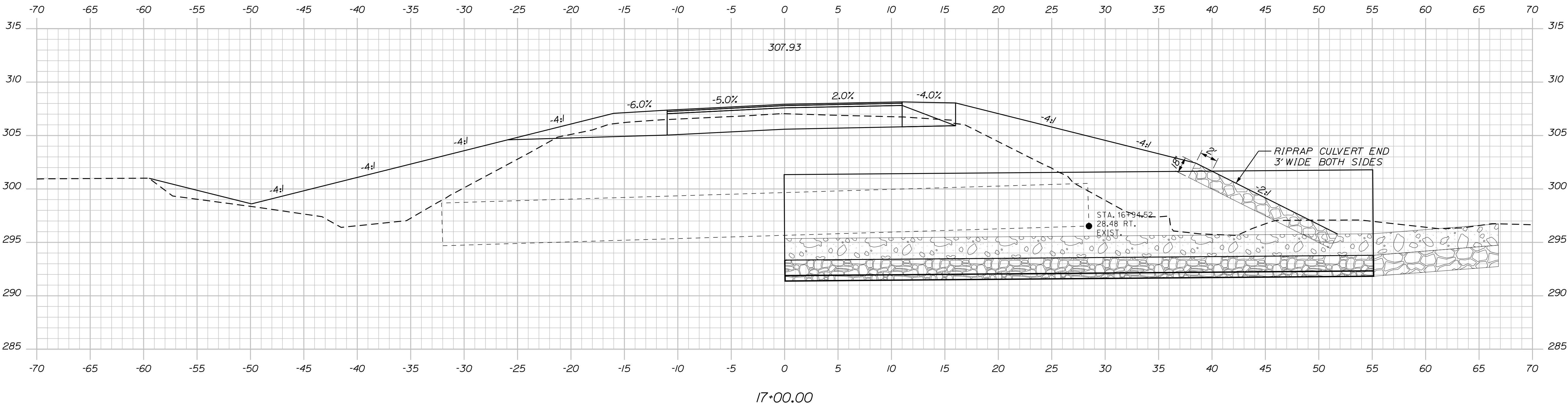
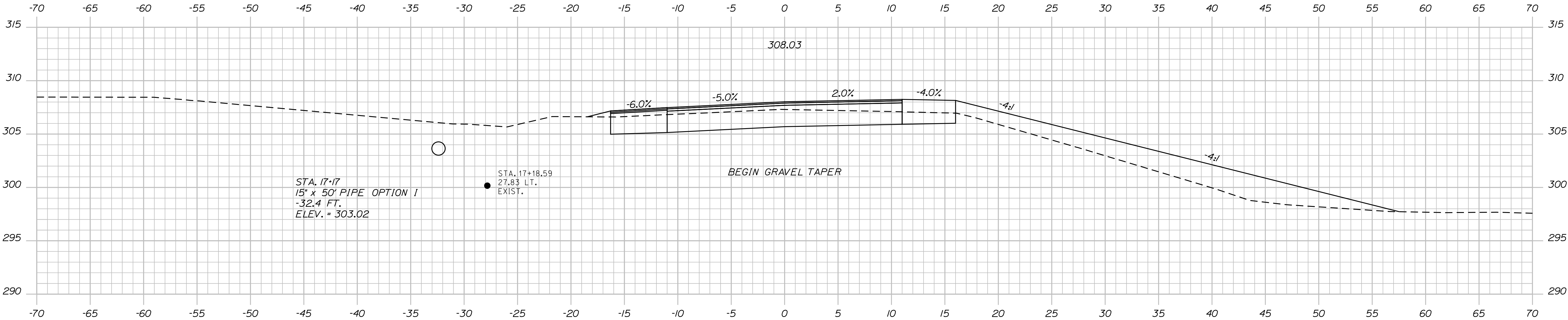
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Date:11/8/2018

Username: lindsey.j.kondiko

Division: HIGHWAY

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
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	WIN	WIN 23133.00

PROJ. MANAGER J. G. WHITTINGTON	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
CHECKED-REVIEWED	L. KANDIKO				
DESIGNED-DETAILED	C. RUSSELL	MAR 2008			
DESIGNED-DETAILED					
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FIELD CHANGES					

LIVERMORE FALLS ROUTE 106	CROSS SECTIONS
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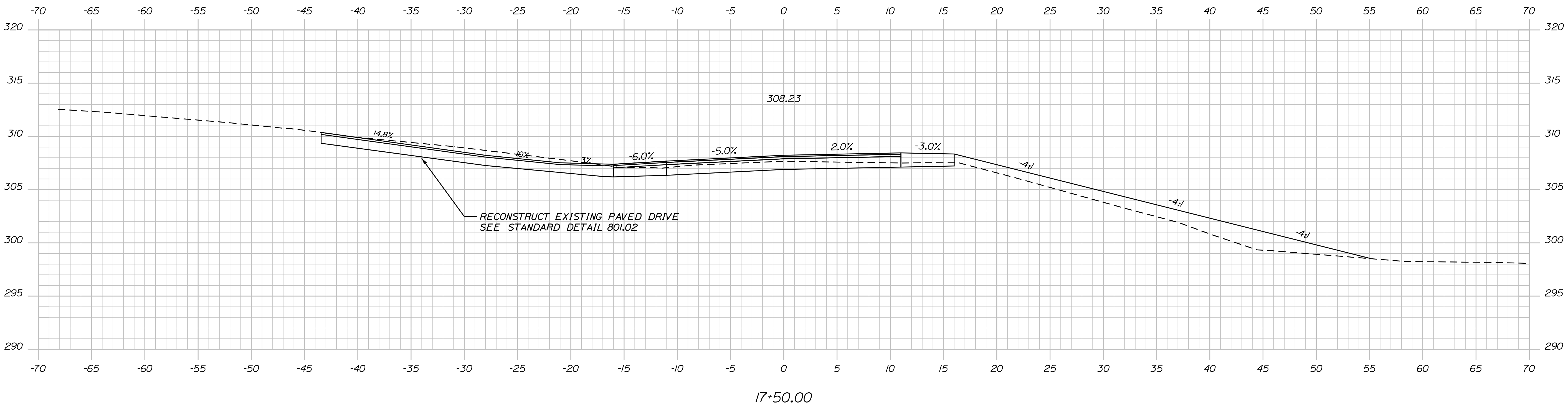
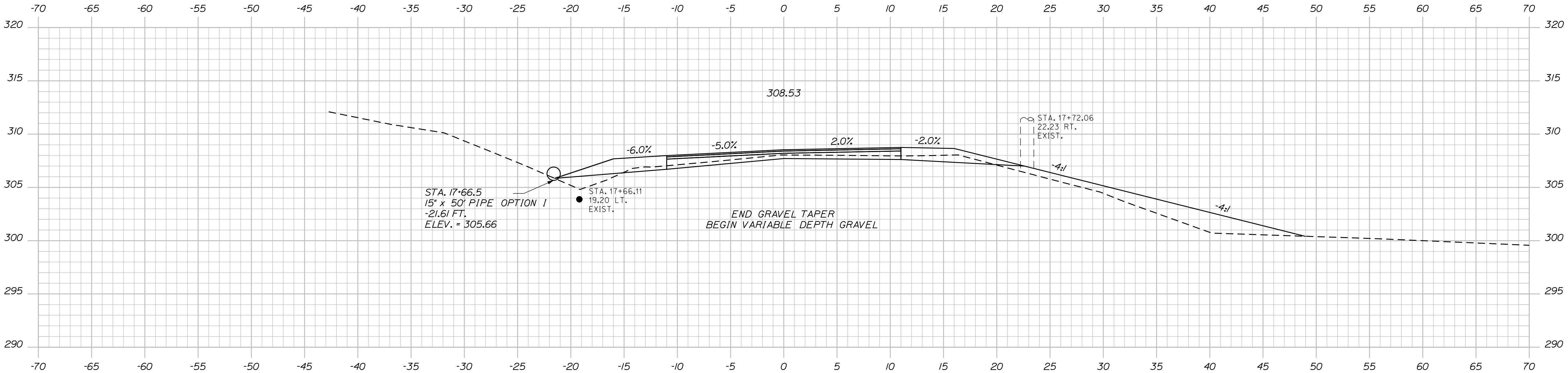
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Date:11/8/2018

Username: lindsey.j.kondiko

Division: HIGHWAY

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PROJ. MANAGER	DATE	BY	DATE	SIGNATURE
J. G. WHITTINGTON				
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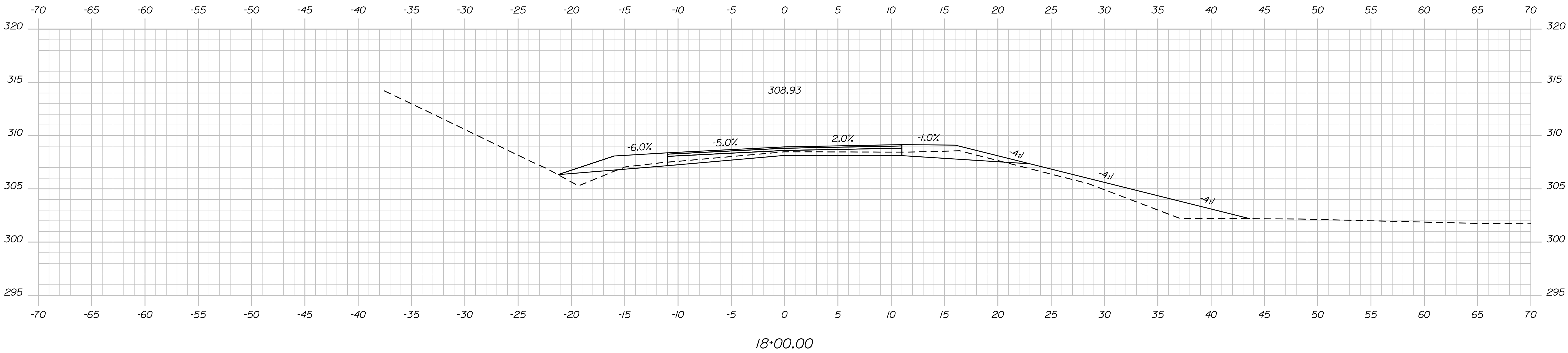
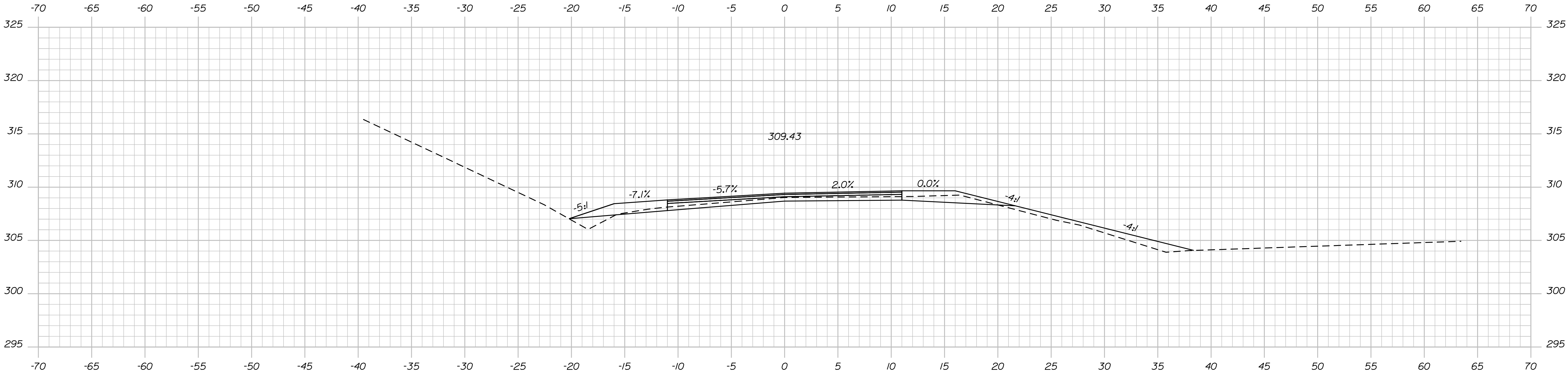
LIVERMORE FALLS
ROUTE 106
CROSS SECTIONS

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Division: HIGHWAY

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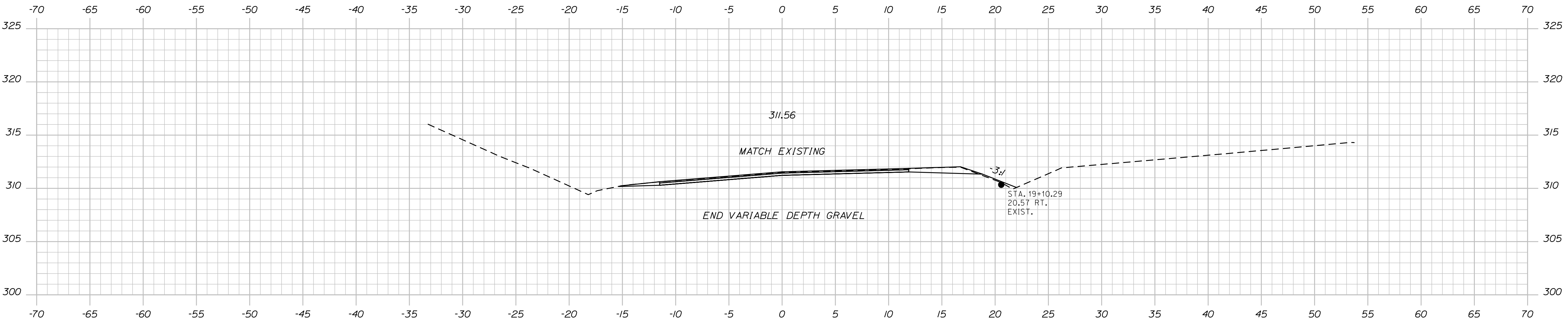


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HIGHWAY PLANS		

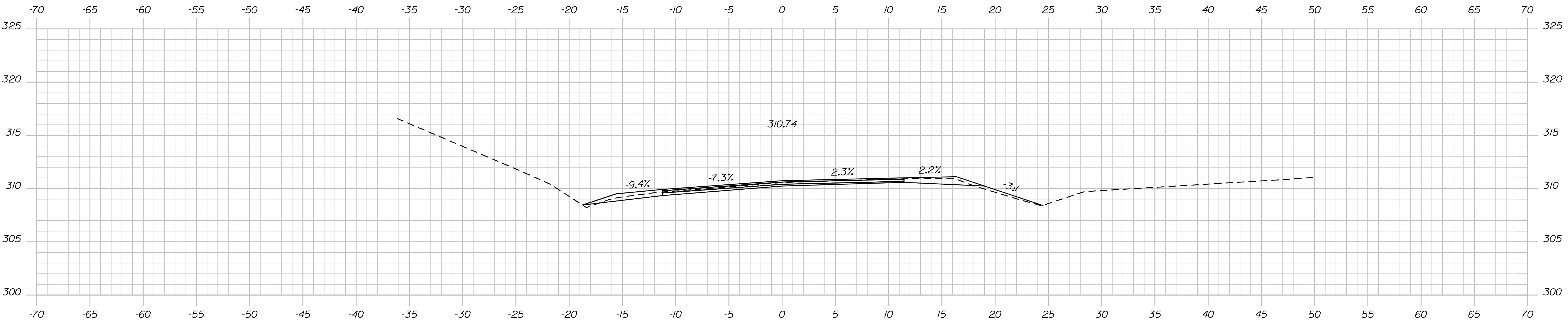
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REVISIONS 4			
FIELD CHANGES			

LIVERMORE FALLS ROUTE 106	CROSS SECTIONS

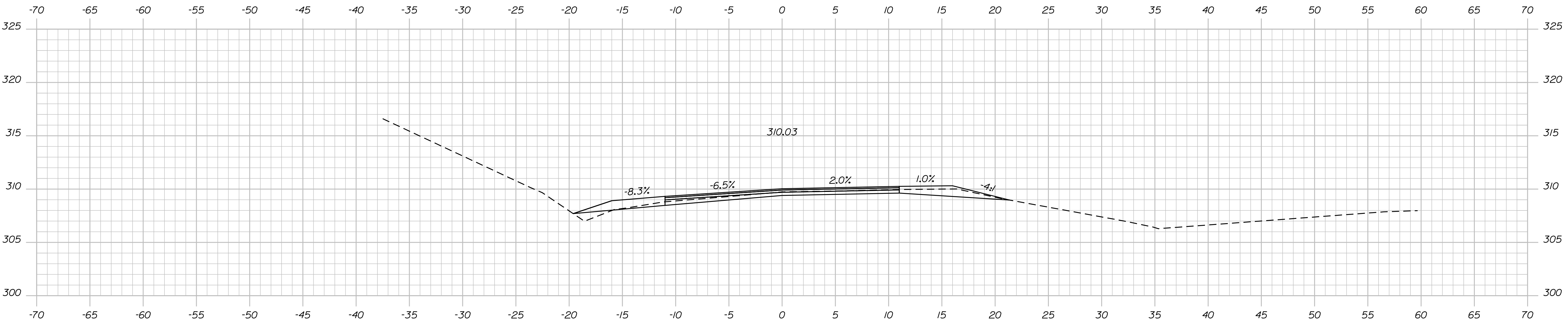
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OF 18



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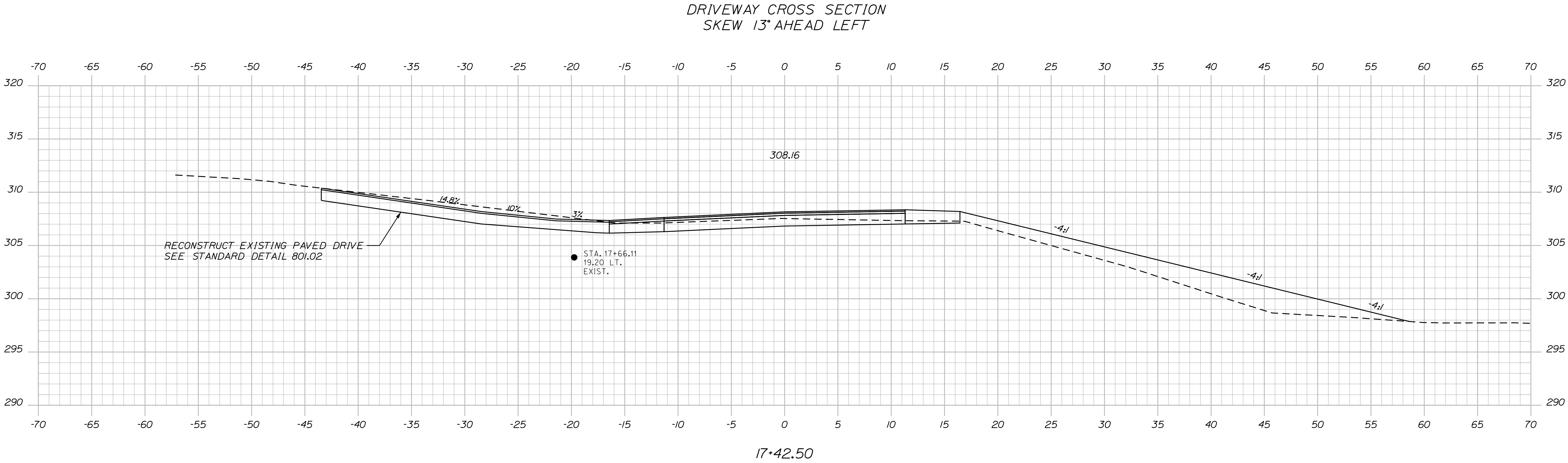


18+75.00



18+50.00

PROJ. MANAGER	J. G. WHITTINGTON	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
CHECKED-REVIEWED	L. KANDIKO	T. WHITE	MAR 2018			
DESIGNED-DETAILED	C. RUSSELL					
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						



LIVERMORE FALLS ROUTE 106					PROJ. MANAGER J. G. WHITTINGTON		BY	DATE	STATE OF MAINE DEPARTMENT OF TRANSPORTATION		
					DESIGNED-REVIEWED L. KANDIKO						
					DESIGN2-DETAILED2 C. RUSSELL	T. WHITE	MAR 2018		SIGNATURE	023133.00	
					DESIGN3-DETAILED3				P.E. NUMBER		
CROSS SECTIONS					REVISIONS 1				DATE	WIN WIN 23133.00	HIGHWAY PLANS
					REVISIONS 2						
					REVISIONS 3						
					REVISIONS 4						
FIELD CHANGES											

LIVERMORE FALLS
ROUTE 106

CROSS SECTIONS

SHEET NUMBER
17
OF 18

Sta. 17+42.50 to Sta. 17+42.50

Date:11/8/2018

Username: lindsey.j.kondiko

Division: HIGHWAY

Filename: ...\\000\\HIGHWAY\\MSTA018_ROW.dgn

