

STATE OF MAINE DEPARTMENT OF TRANSPORTATION



CARIBOU AROOSTOOK COUNTY

STATE ROUTE 161

WIN 19813.00

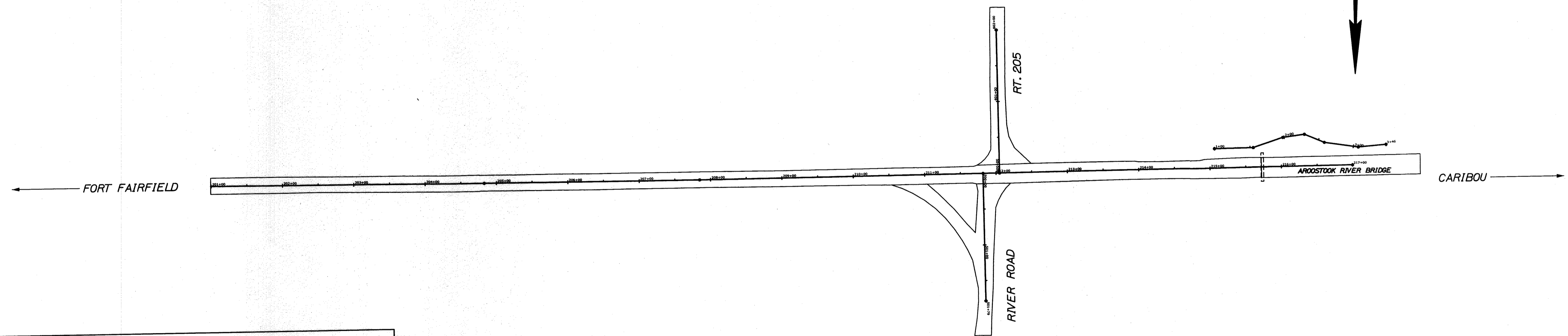
PROJECT LENGTH : 0.35 MILES
DRAINAGE IMPROVEMENTS

TRAFFIC DATA

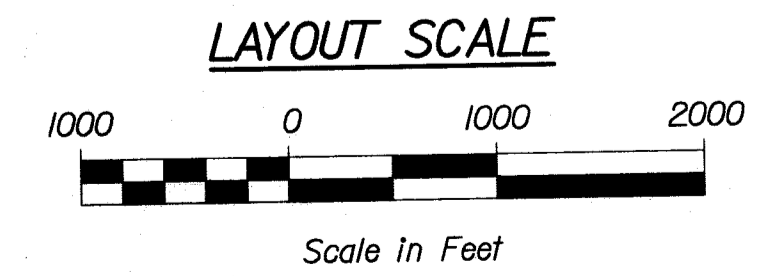
SECTION 2
SR 161 (FT. FAIRFIELD RD)
E/O US RTE. 1 @ BR #5572
CARIBOU

Current (2012) AADT	3200
Future (2024) AADT	3580
DHV - % of AADT	10%
Design Hour Volume	358
% Heavy Trucks (AADT)	5%
% Heavy Trucks (DHV)	2%
Directional Distribution (DHV)	52%
18 kip Equivalent P 2.0	80
18 kip Equivalent P 2.5	76
Design Speed (mph)	35
Functional Class:	MAJOR COLLECTOR

Description	Sheet No.
Title Sheet	1
Typical Sections & General Notes	2
Drainage Sheet & Estimated Quantities	3
Plan Sheets	4 - 5
Cross - Sections Mainline	6 - 15
Cross - Sections Channel	16 - 21



PLAN LEGEND	
Town, County, State	Centerline-Existing
Property Lines	Centerline-Proposed
R/W Lines-Existing	Travelway-Existing
R/W Lines-Proposed	Travelway-Proposed
Culvert-Existing	Railroad
Culvert-Proposed	Catch Basins
Manholes	Manholes
Proposed Underdrain	Proposed Underdrain
Proposed Ditch	Proposed Ditch
Existing Ditch	Existing Ditch
Utility Poles	Utility Poles
Fire Hydrants	Fire Hydrants
Existing Water Line	Existing Water Line
Existing San. Sewer	Existing San. Sewer
Existing San. Sewer Manhole	Existing San. Sewer Manhole
Guardrail-Existing	Guardrail-Existing
Guardrail-Proposed	Guardrail-Proposed
Guardrail-Cable, Other	Guardrail-Cable, Other

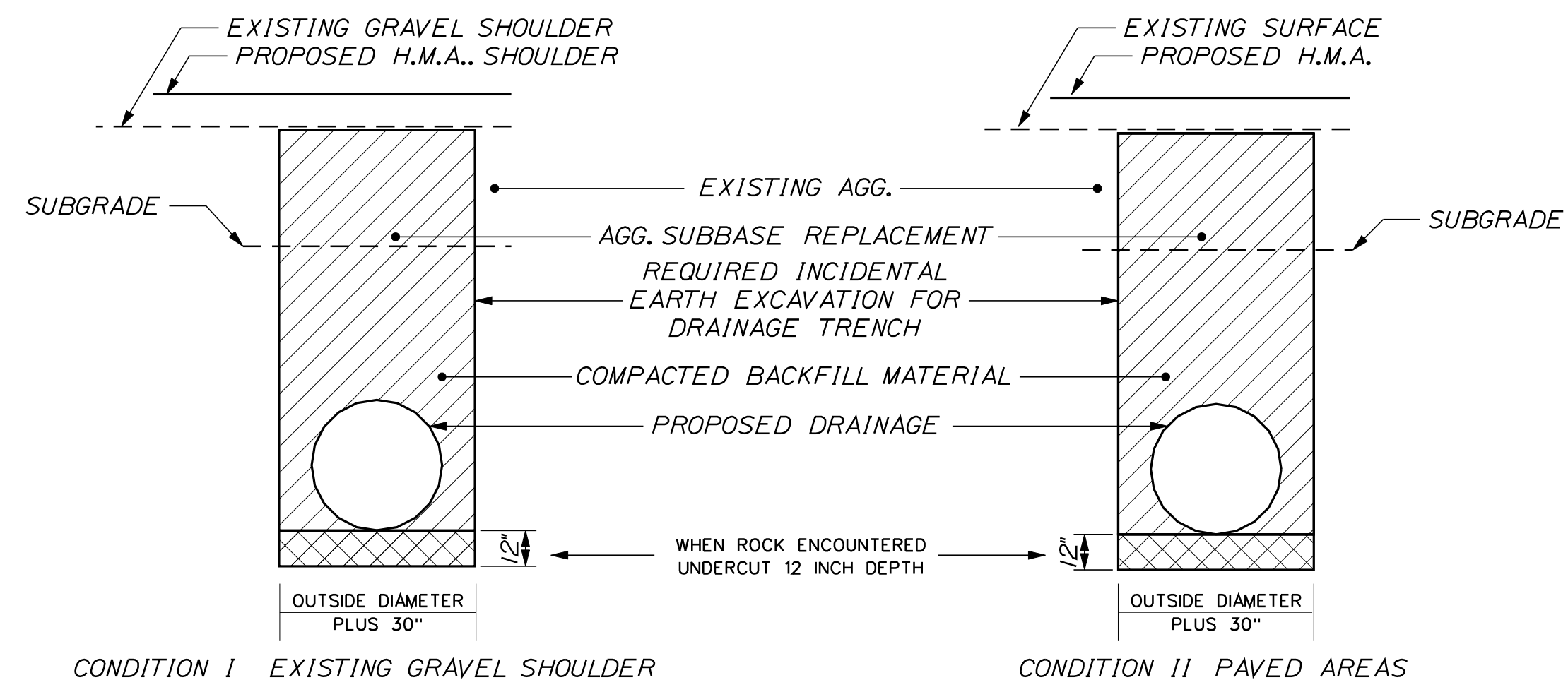


PROJECT LOCATION: BEGINNING 1200' EASTERLY OF INTERSECTION OF RT. 161 & RT. 205 . EXTENDING WESTERLY 600'
PROGRAM AREA: HIGHWAY PROGRAM
SCOPE OF WORK: DRAINAGE IMPROVEMENTS

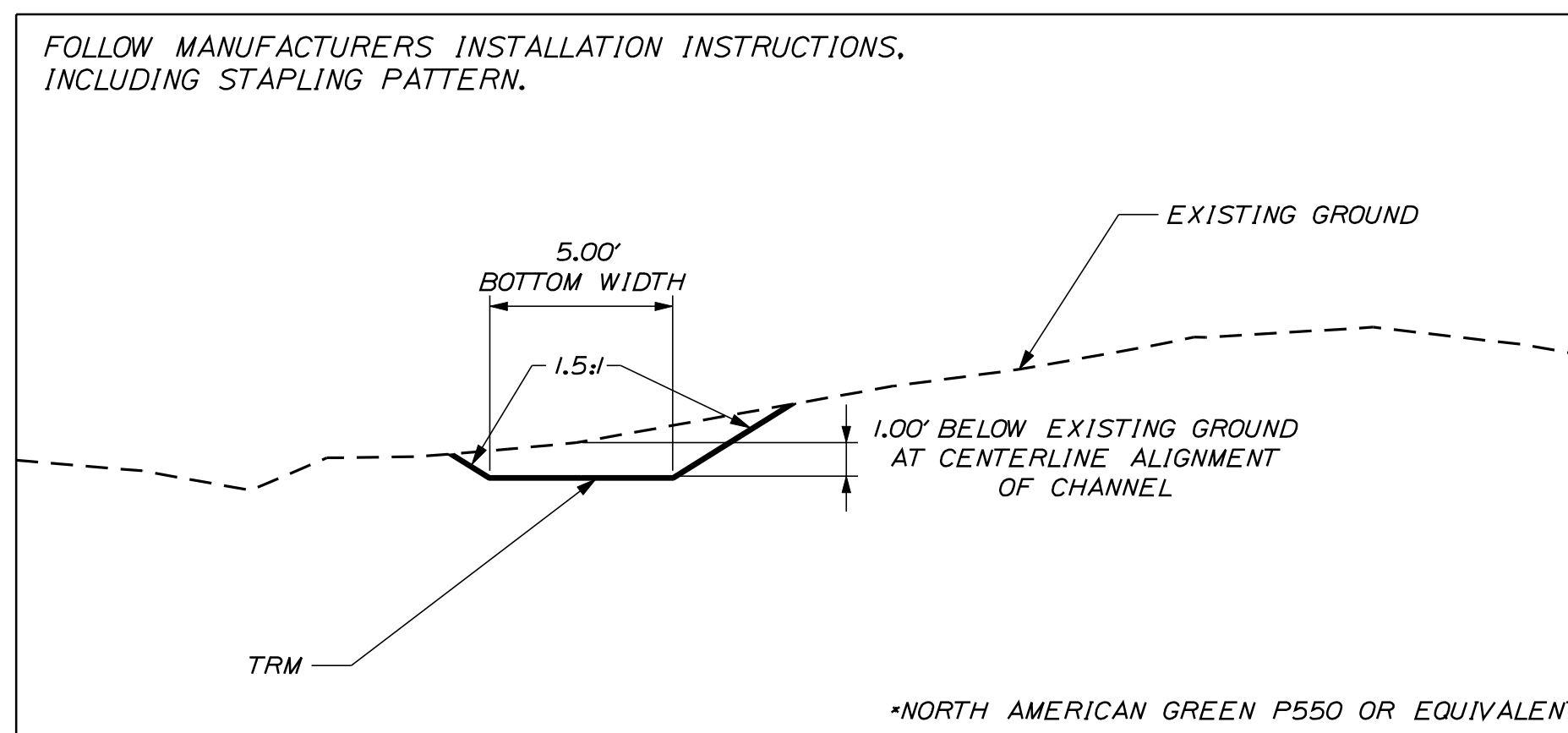
STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED: <i>[Signature]</i> COMMISSIONER: <i>[Signature]</i> CHIEF ENGINEER: <i>[Signature]</i>	DATE: 8/13/12
PROJECT INFORMATION	SIGNATURE: <i>[Signature]</i> P.E. NUMBER: 6640 DATE: 8/2/2012	DATE
PROGRAM	HIGHWAY	PROJECT COMPLETION DATE
PROJECT MANAGER	DESIGNER	PROJECT RESIDENT
CONSULTANT	CONTRACTOR	PROJECT COMPLETION DATE
STP-1981(300)X	WIN 19813.00	CARIBOU STATE ROUTE 161
TITLE SHEET		
SHEET NUMBER		
1		
OF 21		

Filename: ...\\001_Title_Intersection Work.dgn
Division: HIGHWAY
Username: ralph.wakeling
Date: 8/2/2012

TRENCH DETAIL



TURF REINFORCEMENT MAT TYPICAL



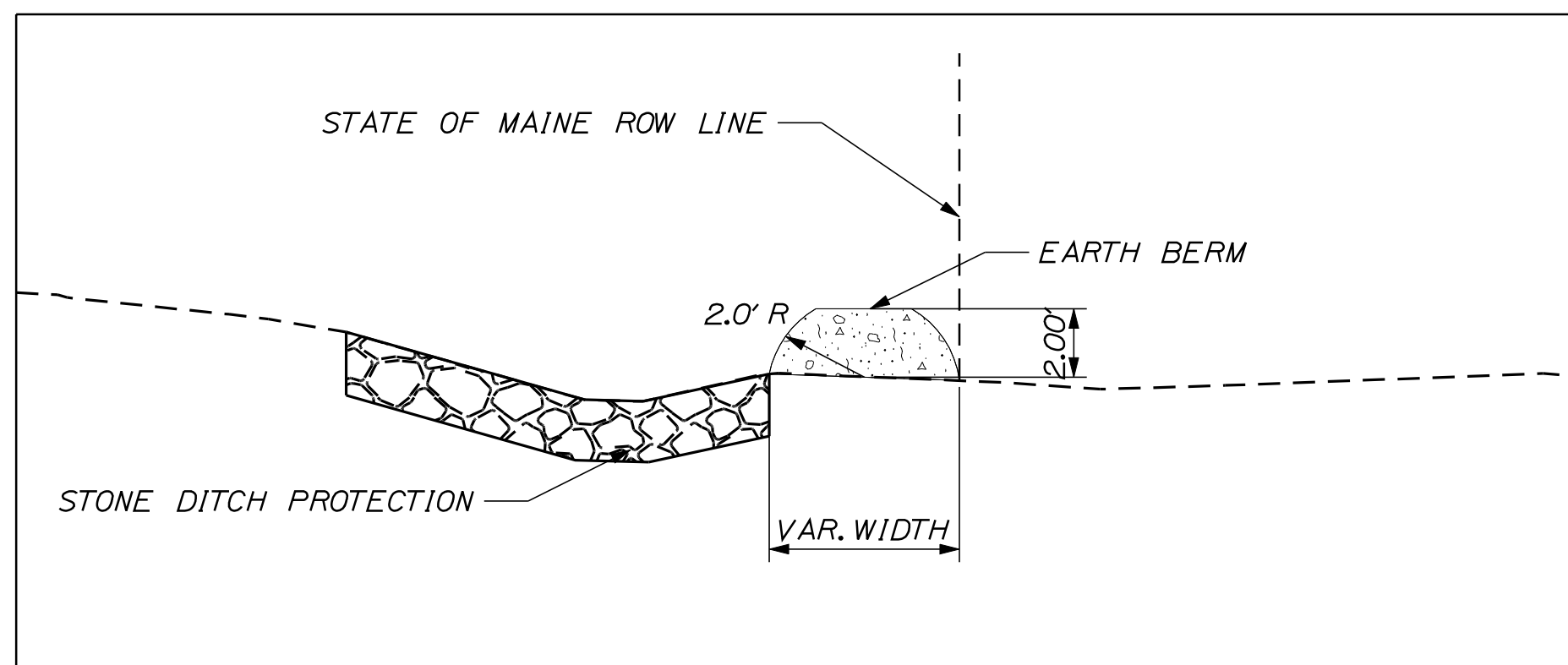
TRM NOTES

1. INSTALL ALONG BOTTOM OF CHANNEL AND ALONG SIDES KEYING IN AT THE TOP PER MANUFACTURERS REQUIREMENTS
2. TRM SHALL BE INSTALLED 4' UNDER RIPRAP APRON, BELOW EROSION CONTROL GEOTEXTILE TO PREVENT EROSION AT TRANSITION FROM RIPRAP APRON TO TRM MAT
3. TRM STAPLING PATTERN TO BE DETERMINED BY MANUFACTURER'S ENGINEERING REPRESENTATIVE OR MAINE DOT STORMWATER ENGINEER

TRENCH NOTES

1. PAYMENT FOR ALL EARTH EXCAVATION REQUIRED AND DENSE GRADED CRUSHED AGGREGATE SHALL BE INCIDENTAL TO THE PIPE [diagonal hatching] AREA SHOWN.
2. PAYMENT FOR ALL EXCAVATION OF ANY SLOPING OF TRENCHES REQUIRED FOR SAFETY REASONS AS WELL AS GRAVEL & HOT BITUMINOUS PAVEMENT MATERIALS REQUIRED BEYOND PAY LINES SHALL BE CONSIDERED INCIDENTAL TO PIPE ITEM.
3. ROCK EXCAVATION REQUIRED WITHIN THE AREAS SHOWN [diagonal hatching] & [cross-hatching] SHALL BE PAID FOR UNDER ITEM 203.21
4. DEPTHS OF GRAVEL & PAVEMENT LAYERS IN TRENCH TO BE THE SAME AS EXISTING.

EARTH BERM DETAIL



BERM NOTES

1. CONSTRUCT EARTH BERM FROM EDGE OF STONE DITCH PROTECTION TO ROW LINE, FROM STA. 202+88.50, RT TO STA. 203+72.78, RT AS DIRECTED BY THE RESIDENT
2. UTILIZE EXCESS COMMON EXCAVATION MATERIAL FOR BERM, AS DIRECTED BY THE RESIDENT

GENERAL NOTES

1. NO UTILITY INVOLVEMENT IS ANTICIPATED.
2. ALL WASTE MATERIAL NOT USED ON THE PROJECT SHALL BE DISPOSED OF OFF THE PROJECT IN WASTE AREAS ACCEPTED BY THE RESIDENT.
3. IF FOUNDATION MATERIAL IS REQUIRED UNDER CULVERTS, IT SHALL MEET THE REQUIREMENTS FOR GRANULAR BORROW - UNDERWATER BACKFILL AND WILL PAID FOR AS GRANULAR BORROW.
4. GRANULAR BORROW USED TO BACKFILL MUCK EXCAVATION OR IN LOW WET AREAS TO 1' ABOVE WATER LEVEL OR OLD GROUND SHALL MEET REQUIREMENTS FOR GRANULAR BORROW UNDERWATER BACKFILL.
5. THE FOLLOWING SHALL BE INCIDENTAL TO THE 603 ITEM(S):
 - A. ANY CUTTING OF EXISTING CULVERTS AND OR CONNECTORS NECESSARY TO INSTALL NEW CULVERT REPLACEMENTS OR EXTENSIONS
 - B. ALL PIPE EXCAVATION INCLUDING ANY CUTTING AND REMOVAL OF PAVEMENT
 - C. ALL DITCHING AT PIPE ENDS
 - D. FURNISHING, PLACING, GRADING, AND COMPACTING OF ANY NEW GRAVEL AND/OR FILL MATERIAL INCLUDING GRANULAR BORROW USED UNDER PIPES AND FOR TEMPORARY DETOURS TO MAINTAIN TRAFFIC DURING PIPE INSTALLATION (EXCAVATION IS ALSO INCIDENTAL).
 - E. GRANULAR BORROW UNDER THE PIPE SHALL MEET THE REQUIREMENTS FOR UNDERWATER BACKFILL
 - F. ALL WORK NECESSARY TO CONNECT TO EXISTING PIPES AND DRAINAGE STRUCTURES
 - G. FLOW LINES MAY BE CHANGED BY 1.5 FT
 - H. ANY NECESSARY CLEARING OF BRUSH AND NON-PAY TREES AT CULVERT ENDS
6. NO EXISTING DRAINAGE SHALL BE ABANDONED, REMOVED OR PLUGGED WITHOUT PRIOR APPROVAL OF THE RESIDENT.
7. INLETS AND OUTLETS OF ALL CULVERTS SHALL BE RIPRAPPED UNLESS OTHERWISE NOTED ON THE PLANS OR DIRECTED BY THE RESIDENT.
8. THE CULVERT SIZES SHOWN ON THE PLANS AND CROSS SECTIONS ARE FOR SMOOTHLINED PIPES ONLY.
9. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING MAILBOXES TO ENSURE THAT THE MAIL WILL BE DELIVERABLE. NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK; IT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
10. 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.
11. NO SEPARATE PAYMENT FOR SUPERINTENDENT OR FOREMAN WILL BE MADE FOR THE SUPERVISION OF EQUIPMENT BEING PAID FOR UNDER THE EQUIPMENT RENTAL ITEMS.
12. "UNDETERMINED LOCATIONS" SHALL BE DETERMINED BY THE RESIDENT.
13. STATIONS REFERENCED ARE APPROXIMATE.
14. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MAINE DEPARTMENT OF TRANSPORTATION'S BEST MANAGEMENT PRACTICES FOR EROSION CONTROL & SEDIMENT CONTROL, FEBRUARY, 2008.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

PROJ. MANAGER	ERNE MARTIN	BY	DATE
DESIGN-DETAILED	N. COLLINS		X
CHECKED-REVIEWED			
DESIGN-DETAILED			
DESIGN-DETAILED			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

CARIBOU
STATE ROUTE 161
TYPICAL SECTIONS
& GENERAL NOTES

SHEET NUMBER
2
OF 21

NOT TO SCALE

Filename: ... \002_Typical_intersection work.dgn Division: HIGHWAY Username: Raymond.demerchant Date: 8/10/2012

HIGHWAY PLANS
WIN
19813.00

DRAINAGE SHEET

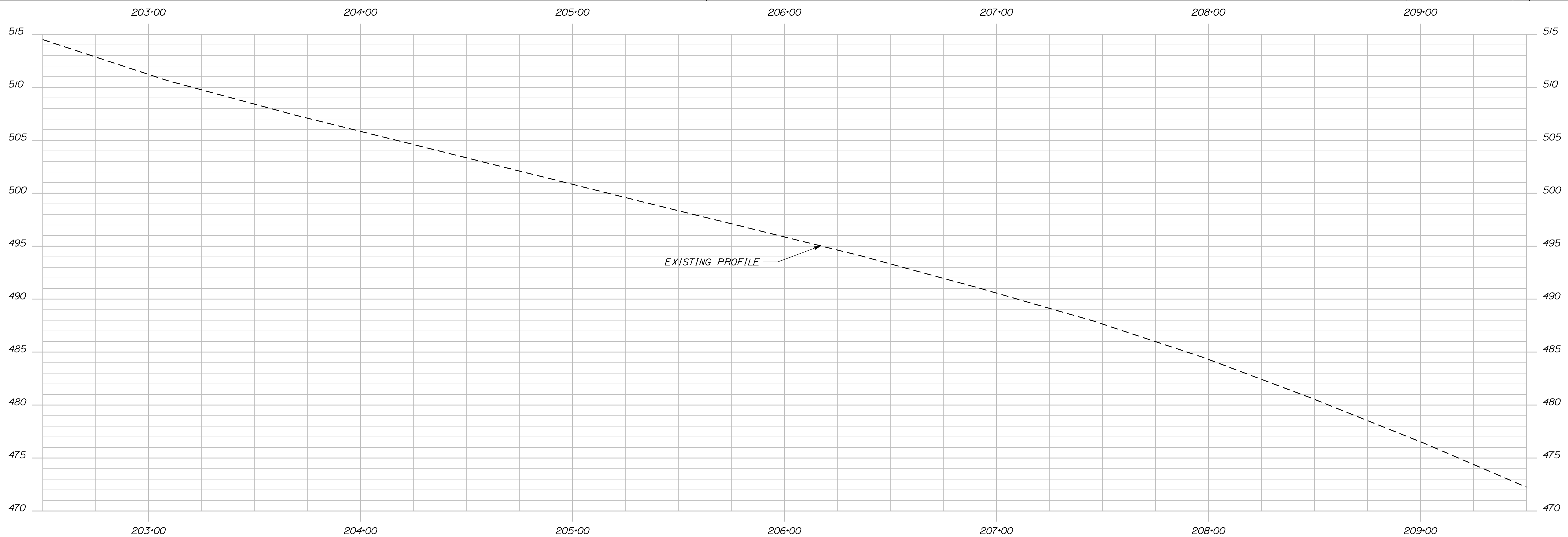
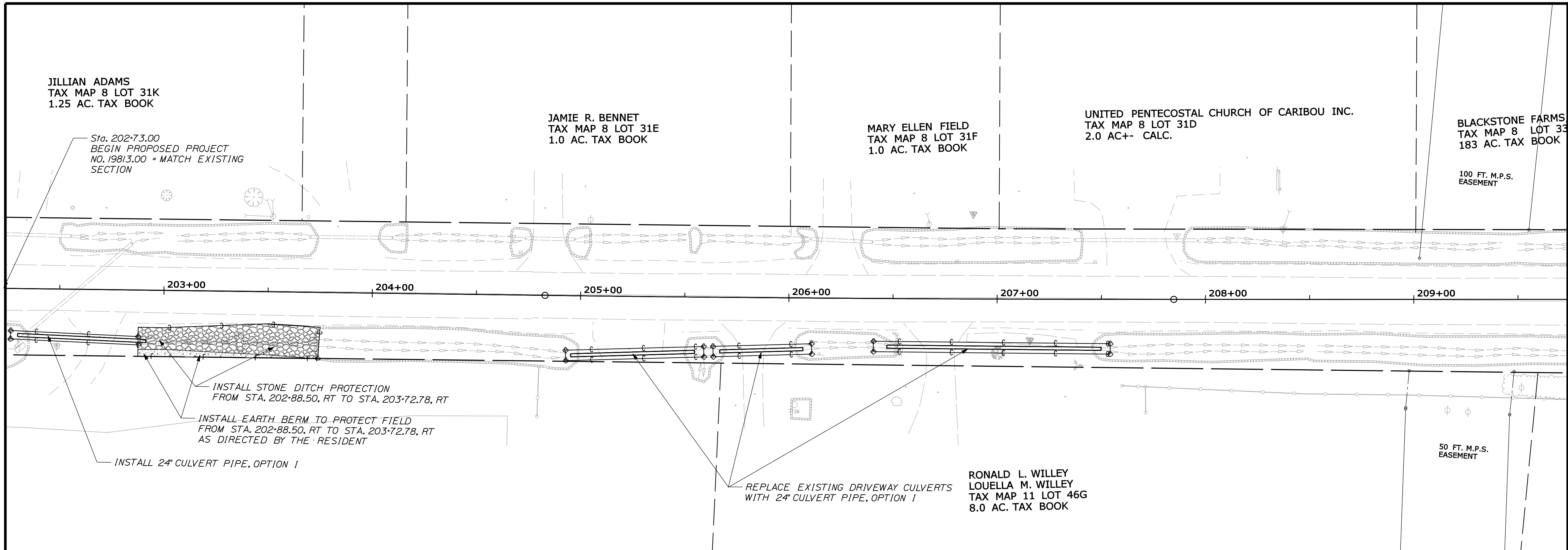
STATION	CULVERT PIPE								CATCH BASIN				BOX CULVERT			MH	UNDERDRAIN				ELBOWS, TEES, WYES AND INLET GRATE UNITS		REMARKS	
	CMP		OPTION I		OPTION III												TYPE B		TYPE C		DESCRIPTIONS			
	SIZE	LENGTH	SIZE	LENGTH	SMOOTHLINED		CORRUGATED		A1-C	B1-C	5' B1-C	E	F	WIDTH	HEIGHT	LENGTH	GAGE OR WALL THICKNESS	TYPE B LENGTH	OUTLET LENGTH	SMOOTHLINED SIZE	SMOOTHLINED LENGTH	CORRUGATED SIZE		CORRUGATED LENGTH
					SIZE	LENGTH	SIZE	LENGTH																
<i>Culvert Pipe</i>																								
<i>Sta. 202+30.00, 22.30' Rt to Sta. 202+91.50, 24.60' Rt</i>																								
<i>Sta. 204+95.55, 28.60' Rt to Sta. 205+55.00, 26.40' Rt</i>																								
<i>Sta. 205+67.00, 26.00' Rt to Sta. 206+06.90, 24.60' Rt</i>																								
<i>Sta. 206+47.00, 23.00' Rt to Sta. 207+50.00, 23.80' Rt</i>																								
<i>Sta. 211+30.00, 24.00' Lt to Sta. 211+50.00, 24.00' Lt (CB #1)</i>																								
<i>Sta. 211+50.00, 24.00' Lt (CB #1) to Sta. 213+30.00, 25.46' Lt (CB #2)</i>																								
<i>Sta. 213+30.00, 25.46' Lt (CB #2) to Sta. 215+61.20, 27.50' Lt</i>																								
<i>Catchbasins</i>																								
<i>CB #1: Sta. 211+50.00, 24.00' Lt</i>																								
<i>CB #2: Sta. 213+30.00, 25.46' Lt</i>																								

ESTIMATED QUANTITIES

Item No.	Item Description	Unit	Quantity
203.20	Common Excavation	CY	50
203.21	Rock Excavation	CY	25
203.25	Granular Borrow	CY	25
203.2312	Health and Safety Plan	LS	1
203.333	Disposal of Special Excavation	T	25
403.102	Hot Mix Asphalt-Special Areas	T	20
603.19	24-Inch Culvert Pipe-Opt. I	LF	422
603.179	18-Inch Culvert Pipe-Opt. III	LF	260
604.092	Catch Basin Type B1-C	EA	2
610.08	Plain Riprap	CY	15
610.18	Stone Ditch Protection	CY	65
613.40	Turf Reinforcement Mat	SY	85
615.07	Loam	CY	10
618.13	Seeding Method Num. 1	UN	1
619.12	Mulch	UN	1
620.58	Erosion Control Geotextile	SY	150
629.05	Hand Labor, Straight Time	HR	10
631.10	Air Compressor (Inc. Operator)	HR	5
631.11	Air Tool (Inc. Operator)	HR	5
631.12	All Purpose Excavator (Inc. Operator)	HR	10
631.172	Truck-Large (Inc. Operator)	HR	10
652.33	Drum	EA	10
652.34	Cone	EA	25
652.35	Construction Signs	SF	200
652.36	Maint of Traffic Contr Devices	CD	47
652.38	Flagger	HR	250
656.75	Temp Soil Erosion & Water Pollution Cont Plan	LS	1
659.10	Mobilization	LS	1

Filename: ... \003_Drainage_intersection_work.dgn Division: HIGHWAY Username: Raymond.demarchant Date: 8/17/2012

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		WIN 19813.00		HIGHWAY PLANS	
PROJ. MANAGER	ERNE MARTIN	BY		DATE		SIGNATURE	
CHECKED-REVIEWED	N. COLLINS					P.E. NUMBER	
DESIGN DETAILED						DATE	
DESIGN DETAILED							
REVISIONS 1							
REVISIONS 2							
REVISIONS 3							
REVISIONS 4							
FIELD CHANGES							
CARIBOU STATE ROUTE 161				DRAINAGE SHEET & ESTIMATED QUANTITIES			
SHEET NUMBER				3			
				OF 21			

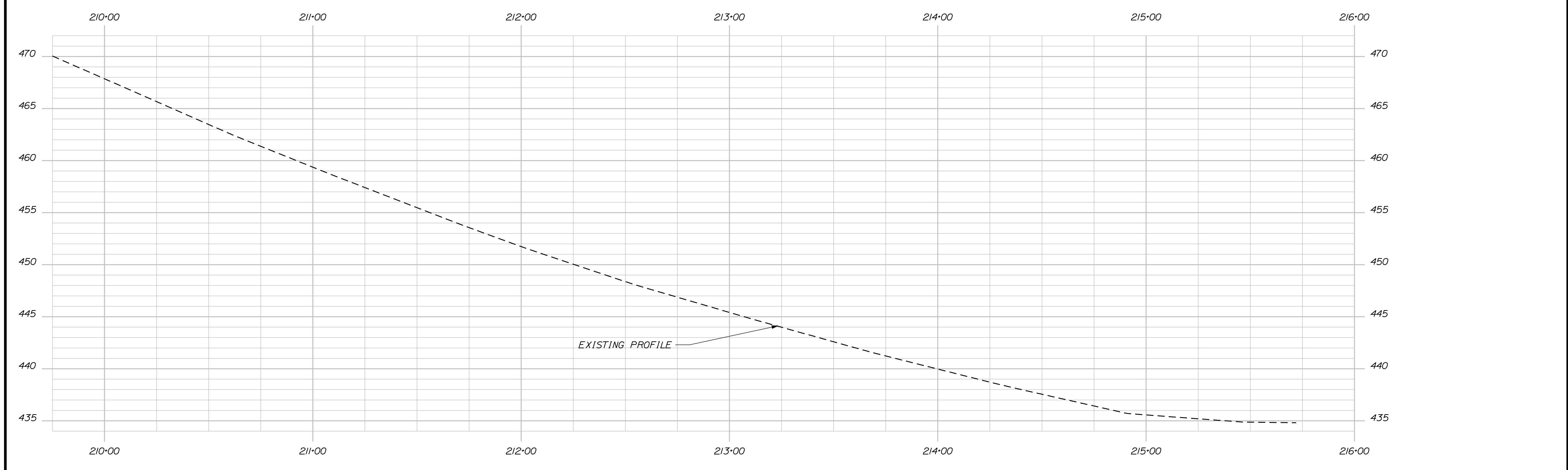
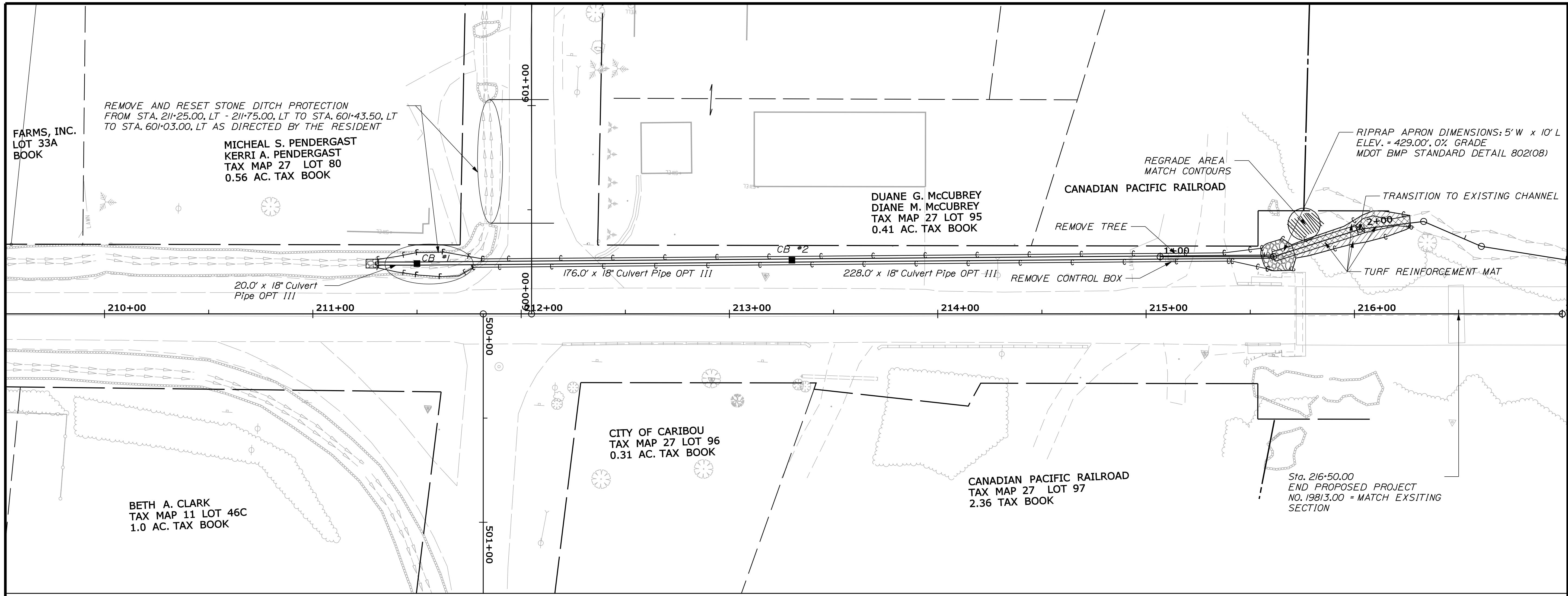


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DESIGN-DETAILED	DESIGNER	DATE	
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REVISIONS 3	DATE		
REVISIONS 4	DATE		
FIELD CHANGES	DATE		
CARIBOU STATE ROUTE 161		PLANS	
SHEET NUMBER		4	
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Username: Raymond.demarchant Date: 8/10/2012

Division: HIGHWAY

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

WIN
19813.00
HIGHWAY PLANS

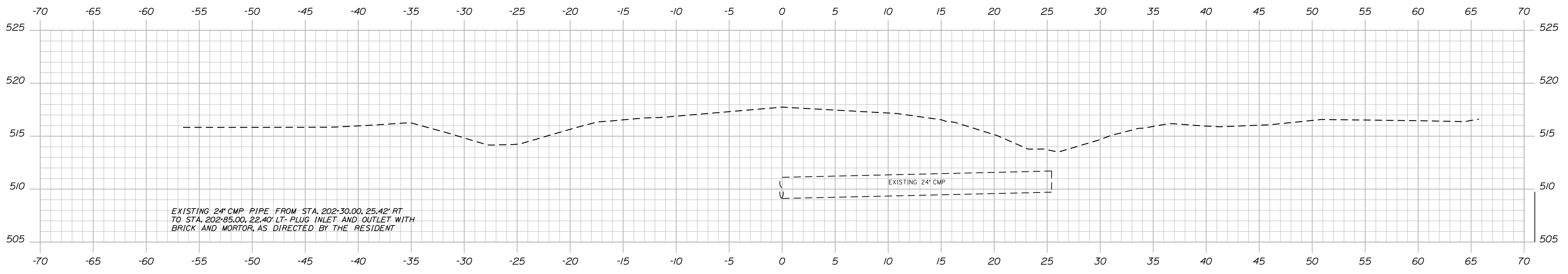
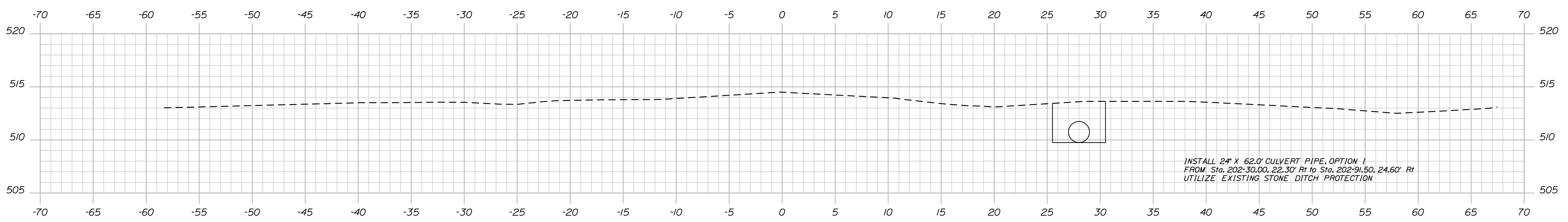
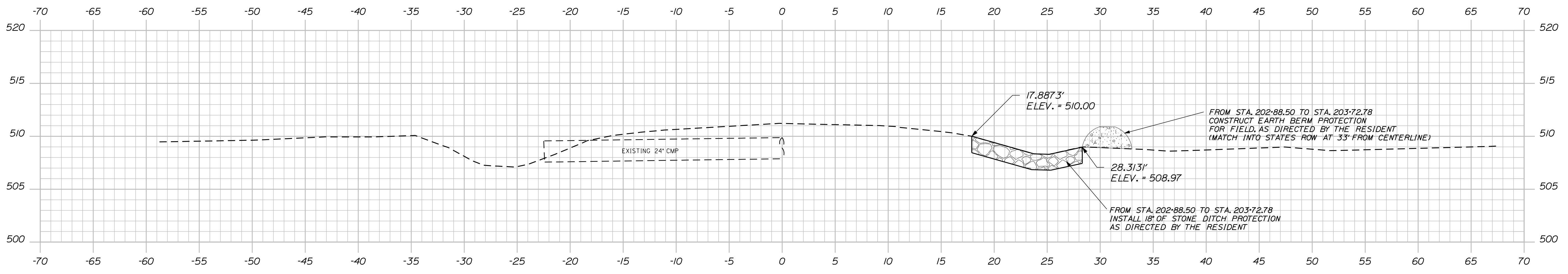
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REVISIONS 2	DESIGNER	DATE	SIGNATURE
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FIELD CHANGES	DESIGNER	DATE	SIGNATURE

CARIBOU
STATE ROUTE 161
PLANS

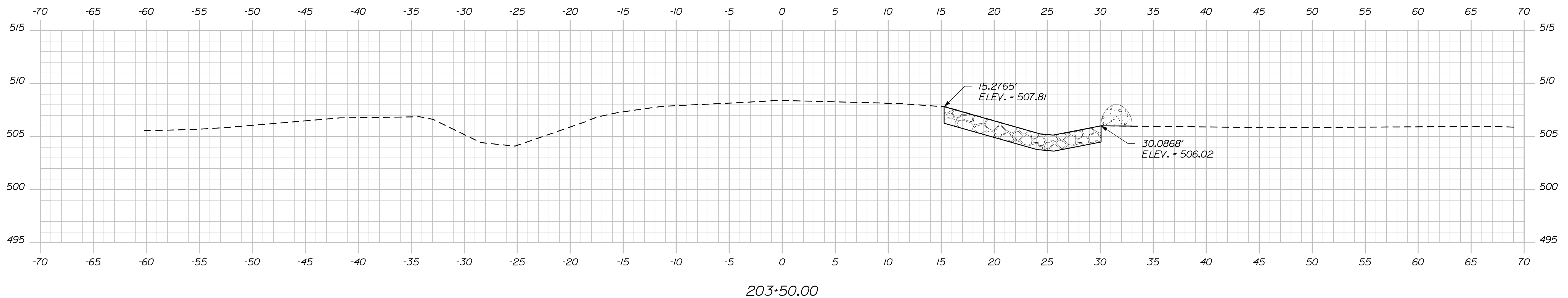
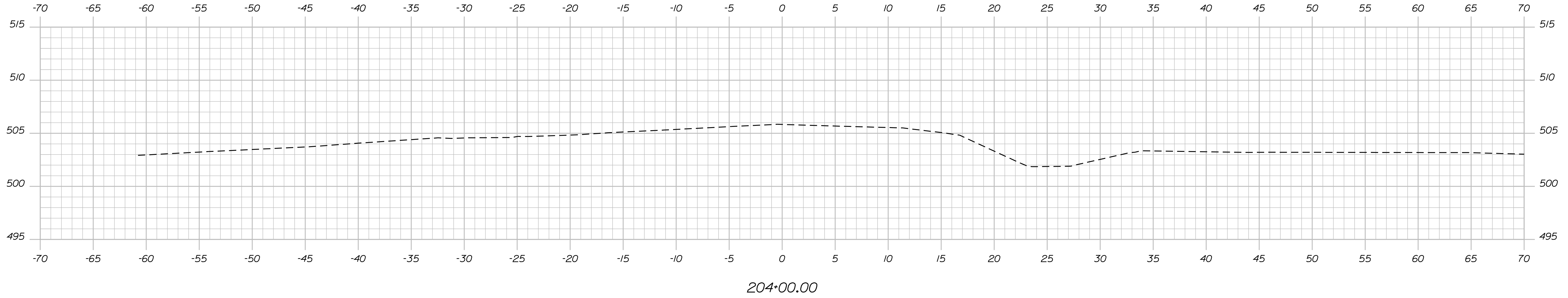
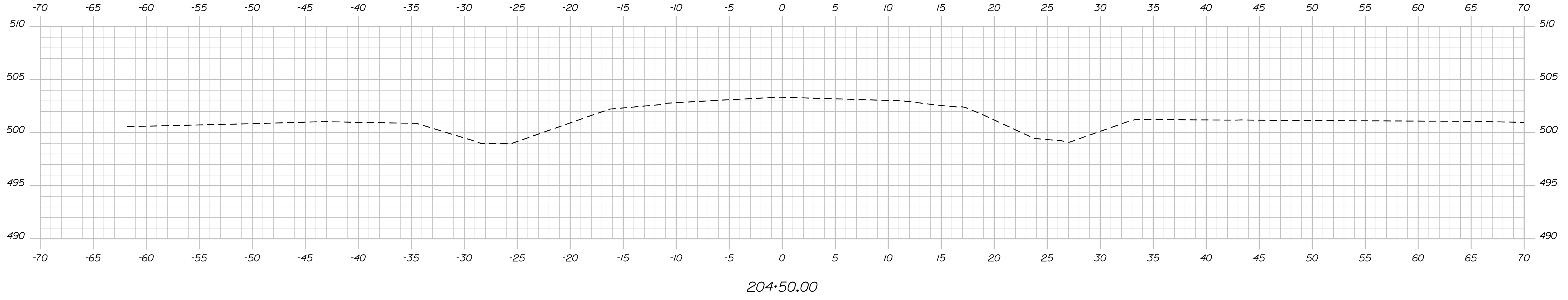
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OF 21

Username: Raymond.demarchant Date: 8/10/2012

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STATE OF MAINE DEPARTMENT OF TRANSPORTATION		WIN 19813.00 HIGHWAY PLANS
CARIBOU STATE ROUTE 161	CROSS SECTIONS	
SHEET NUMBER 6 OF 21		
PROJ. MANAGER	BY	DATE
DESIGN DETAILED	DESIGNER	DATE
CHECKED/REVIEWED	CHECKER	DATE
DESIGN DETAILED	DESIGNER	DATE
DESIGN DETAILED	DESIGNER	DATE
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REVISIONS 2	REVISIONS 2	REVISIONS 2
REVISIONS 3	REVISIONS 3	REVISIONS 3
REVISIONS 4	REVISIONS 4	REVISIONS 4
FIELD CHANGES	FIELD CHANGES	FIELD CHANGES
SIGNATURE	P.E. NUMBER	DATE



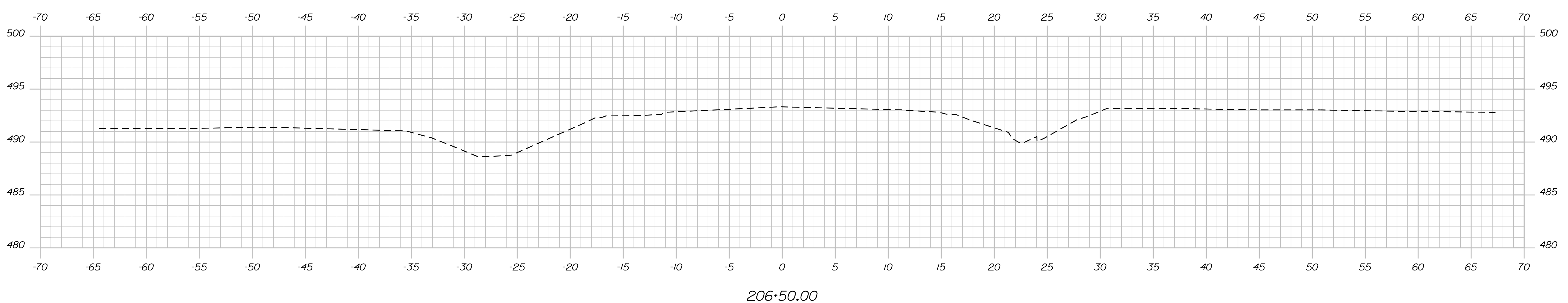
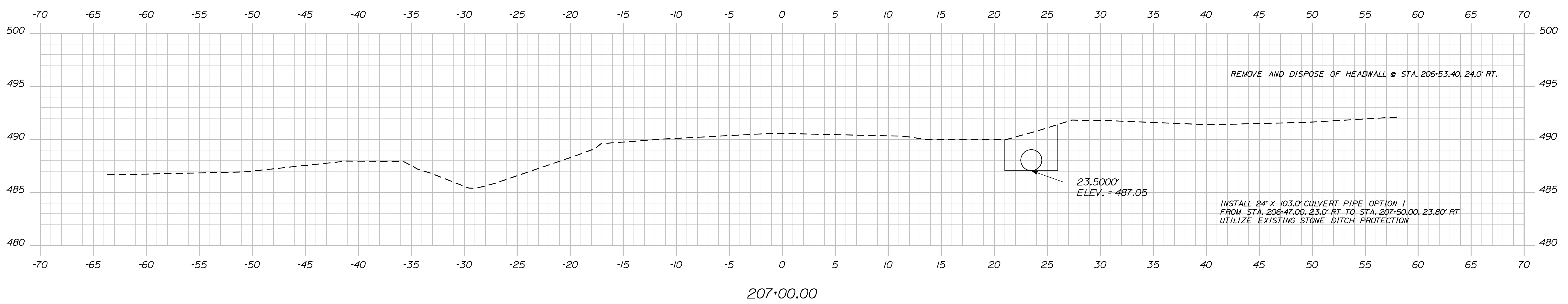
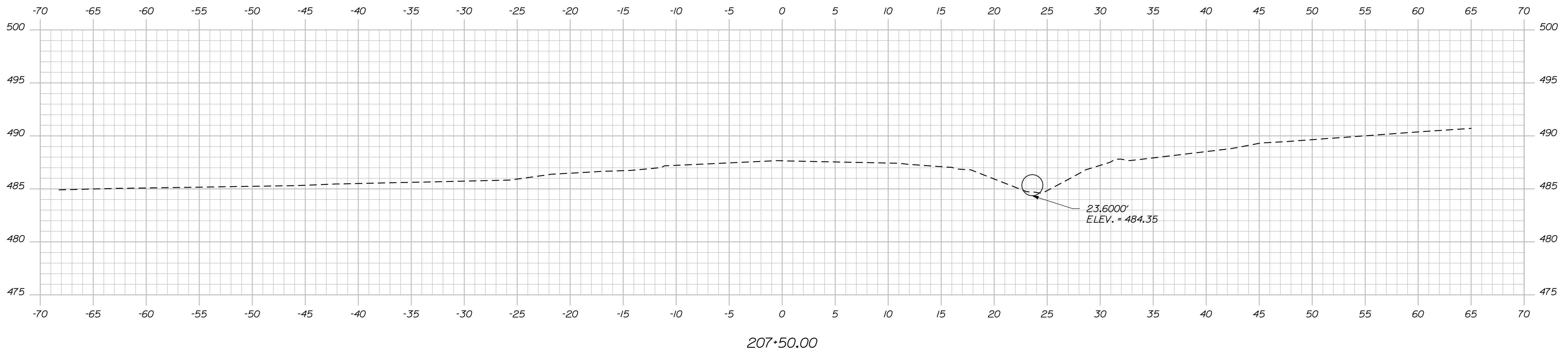
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REVISIONS 3	REVISIONS 3	REVISIONS 3	REVISIONS 3
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FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES

CARIBOU
STATE ROUTE 161
CROSS SECTIONS

SHEET NUMBER
7
OF 21

Username: Raymond.demarchant Date: 8/10/2012

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

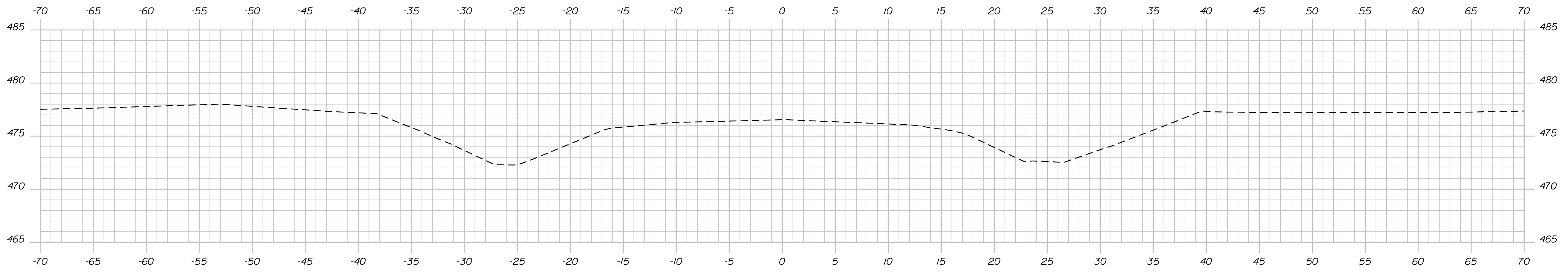
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CHECKED/REVIEWED	DESIGNER	DATE
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FIELD CHANGES	DESIGNER	DATE

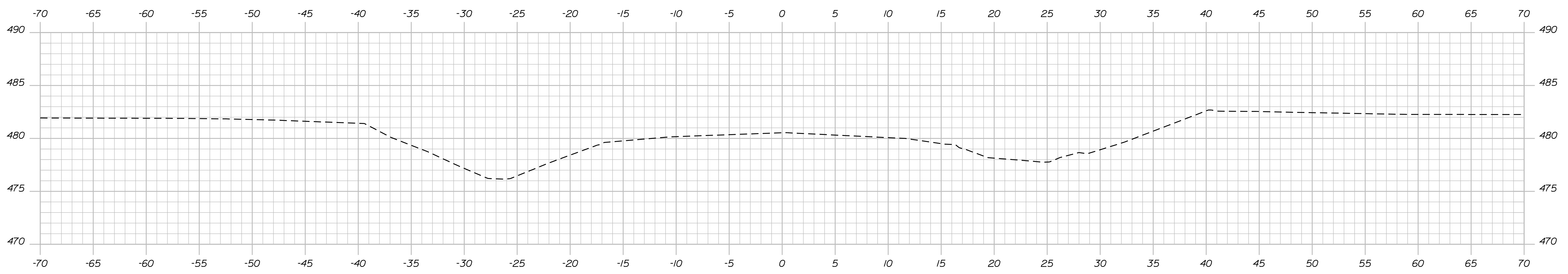
CARIBOU
STATE ROUTE 161
CROSS SECTIONS

SHEET NUMBER
9
OF 21

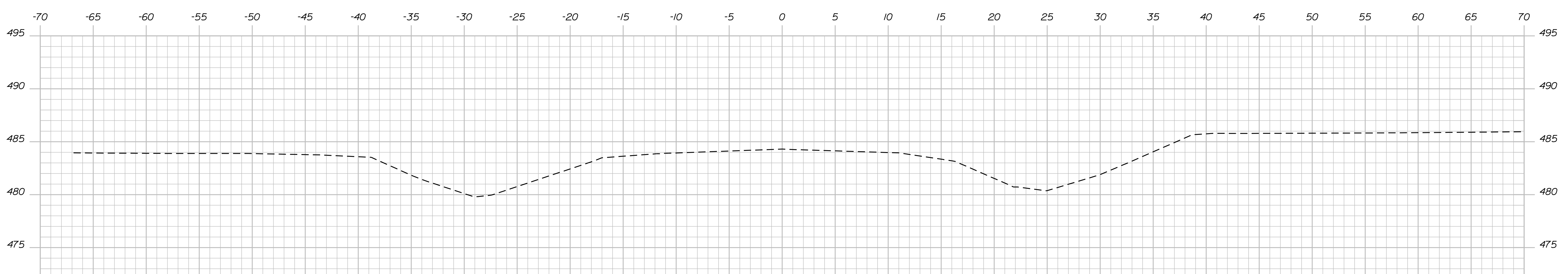
WIN
19813.00
HIGHWAY PLANS



209+00.00



208+50.00



208+00.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

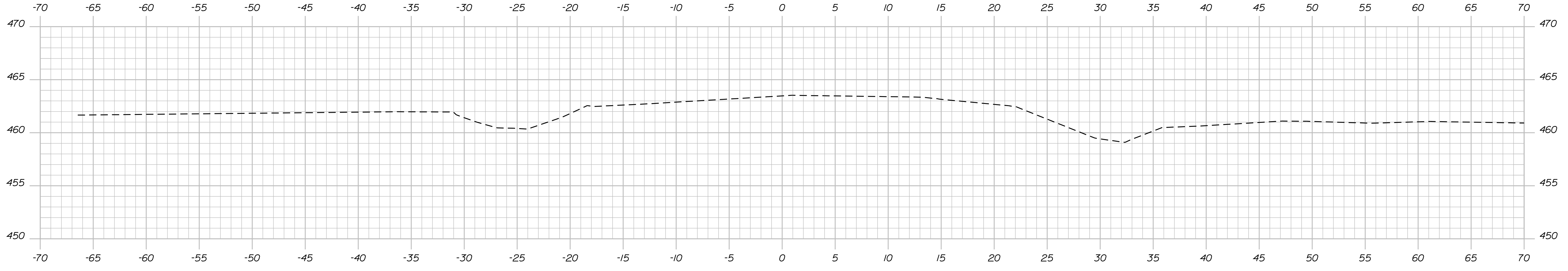
CARIBOU
STATE ROUTE 161
CROSS SECTIONS

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	DESIGNER	DATE
CHECKED-REVIEWED	DESIGNER	DATE
DESIGN-DETAILED	DESIGNER	DATE
DESIGN-DETAILED	DESIGNER	DATE
REVISIONS 1	DESIGNER	DATE
REVISIONS 2	DESIGNER	DATE
REVISIONS 3	DESIGNER	DATE
REVISIONS 4	DESIGNER	DATE
FIELD CHANGES	DESIGNER	DATE

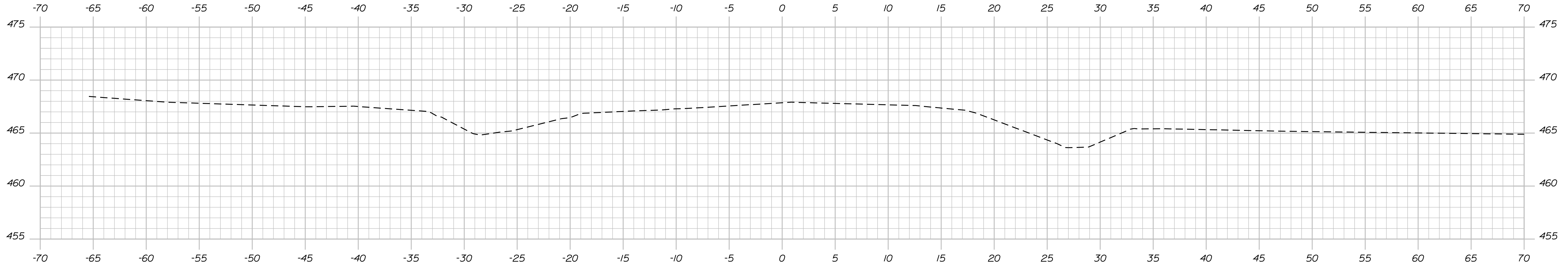
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WIN
19813.00
HIGHWAY PLANS

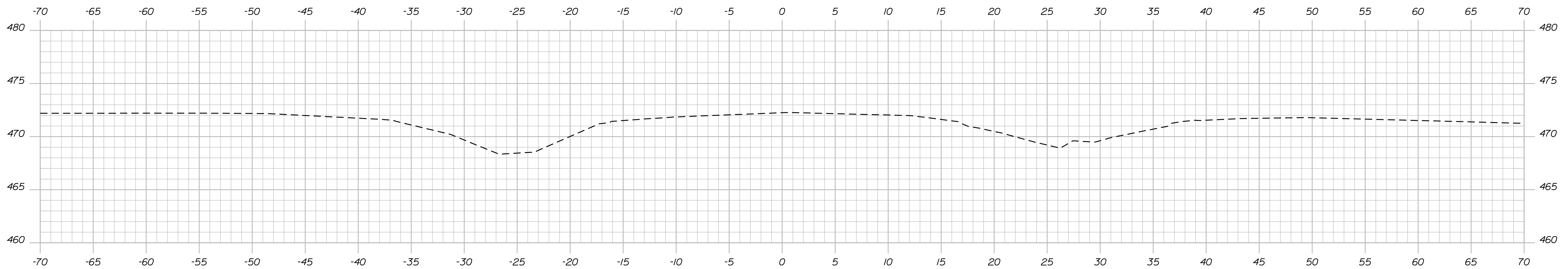
SHEET NUMBER
10
OF 21



210+50.00



210+00.00



209+50.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1981(300)X
WIN
19813.00
HIGHWAY PLANS

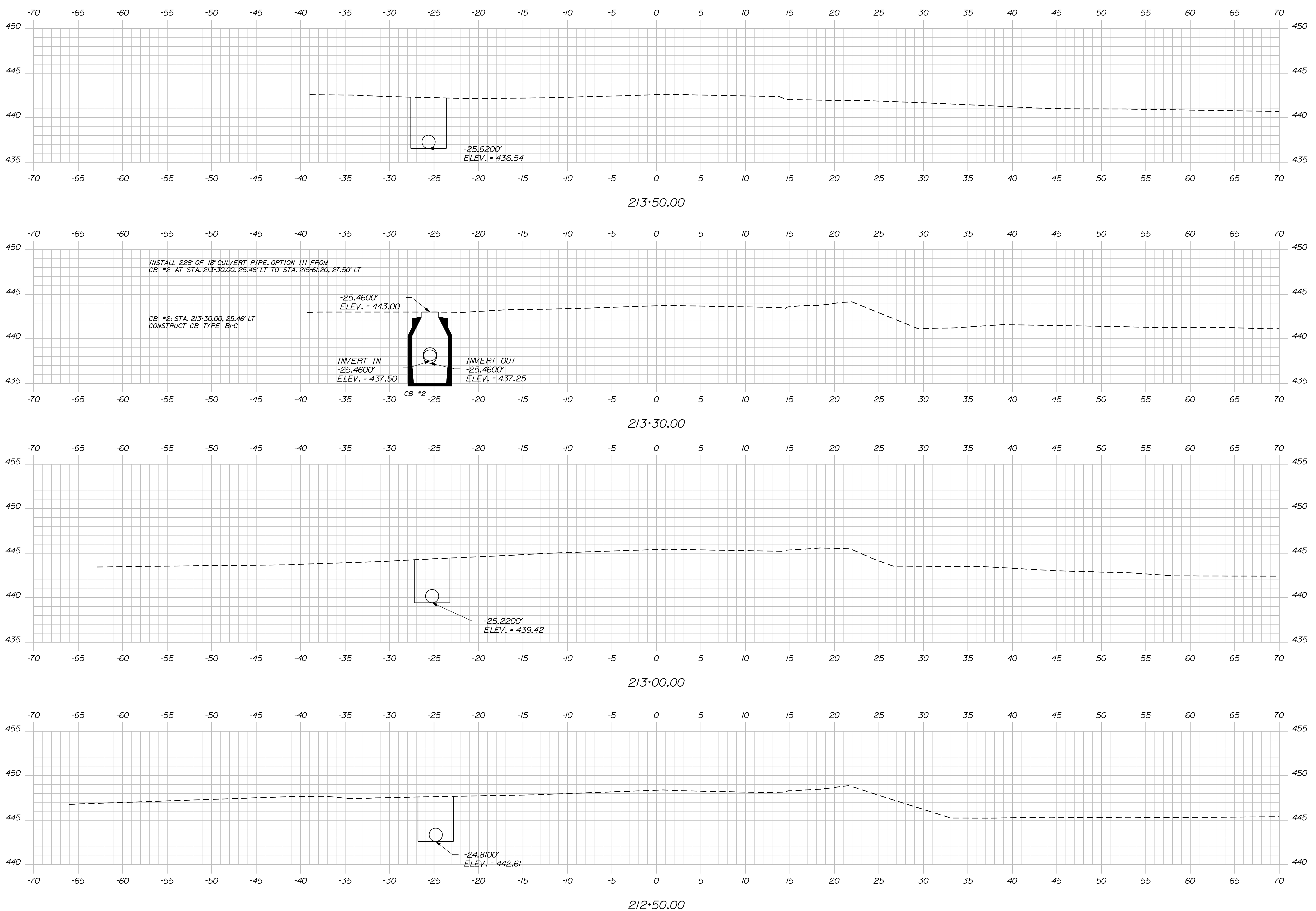
PROJ. MANAGER	DESIGN DETAILED	CHECKED-REVIEWED	BY	DATE
\$PROJECTMGR\$	\$DESIGNER\$	\$CHECKER\$	\$BY\$	\$DATE\$
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DESIGN DETAILED	DESIGNER 2	DESIGN DETAILED	DESIGNER 3	DATE
DESIGN DETAILED	DESIGNER 3	DESIGN DETAILED	DESIGNER 4	DATE
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DESIGN DETAILED	DESIGNER 14	DESIGN DETAILED	DESIGNER 15	DATE
DESIGN DETAILED	DESIGNER 15	DESIGN DETAILED	DESIGNER 16	DATE
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CARIBOU
STATE ROUTE 161
CROSS SECTIONS

SHEET NUMBER
11
OF 21

Username: Raymond.demarchant Date: 8/10/2012

Filename: ... \013_Xsect_intersection drainage_212-50 to 60.dwg



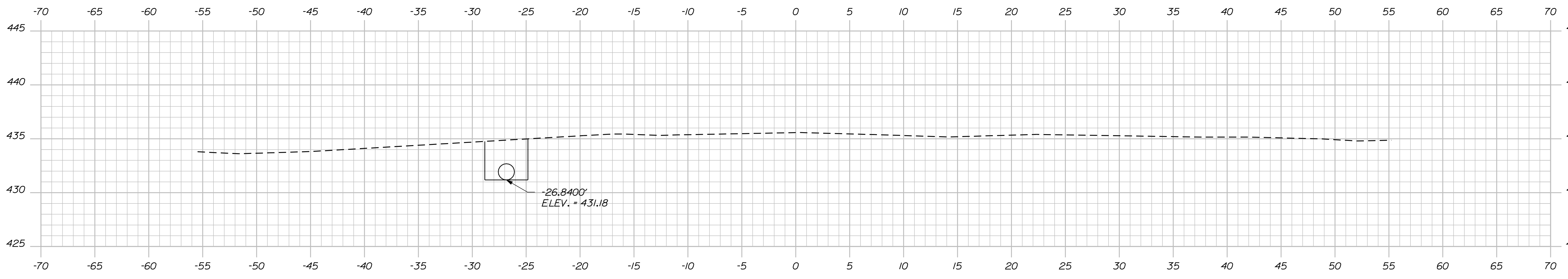
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STP-1981(300)X	
WIN 19813.00	
HIGHWAY PLANS	
CARIBOU STATE ROUTE 161	CROSS SECTIONS
SHEET NUMBER	
13	
OF 21	

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	DESIGNER	DATE
CHECKED-REVIEWED	CHECKER	DATE
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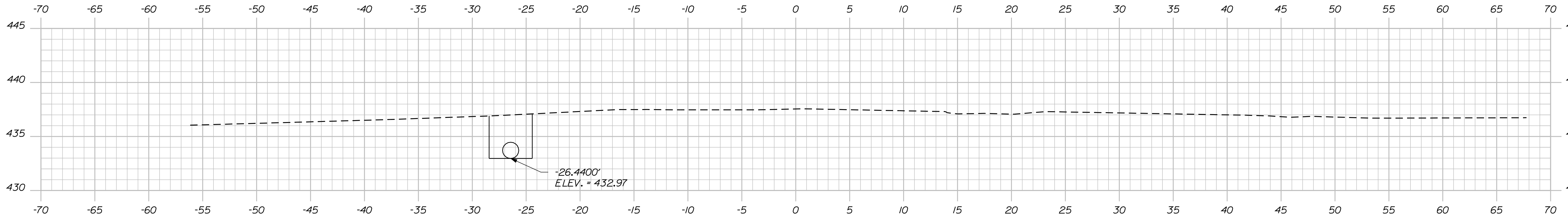
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DATE	DATE

Username: Raymond.demarchant Date: 8/10/2012

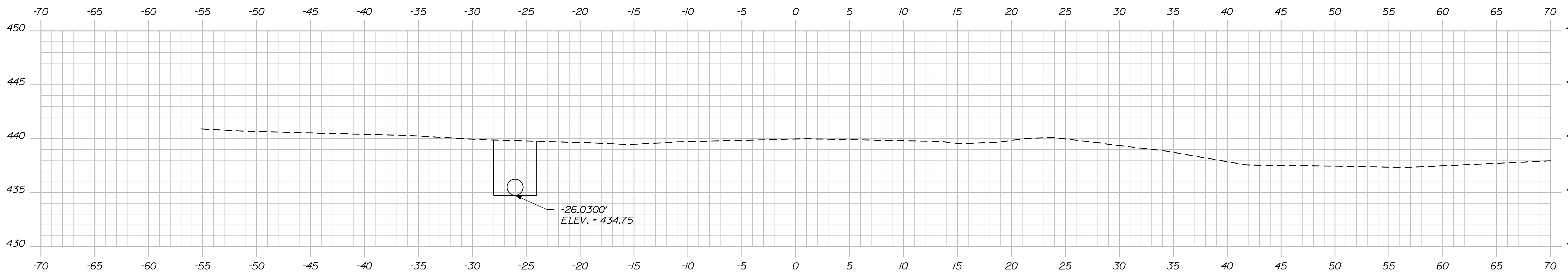
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215+00.00



214+50.00



214+00.00

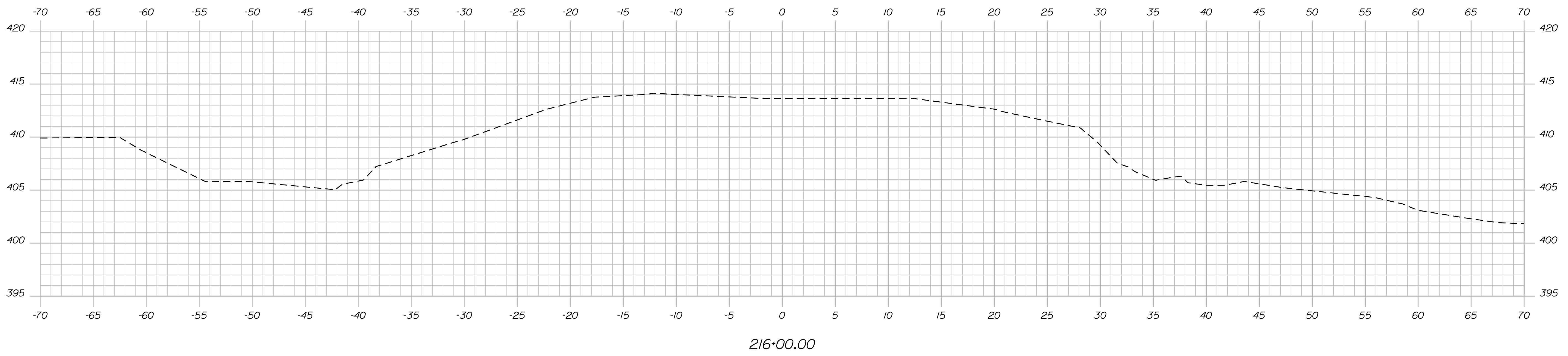
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HIGHWAY PLANS

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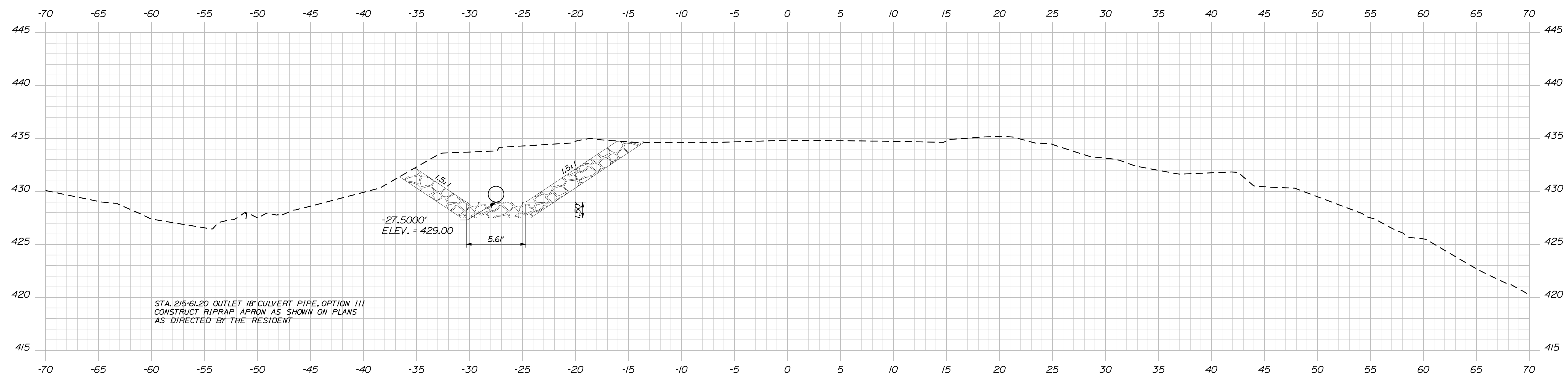
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STATE ROUTE 161
CROSS SECTIONS

SHEET NUMBER
14
OF 21

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 Username: Raymond.demarchant

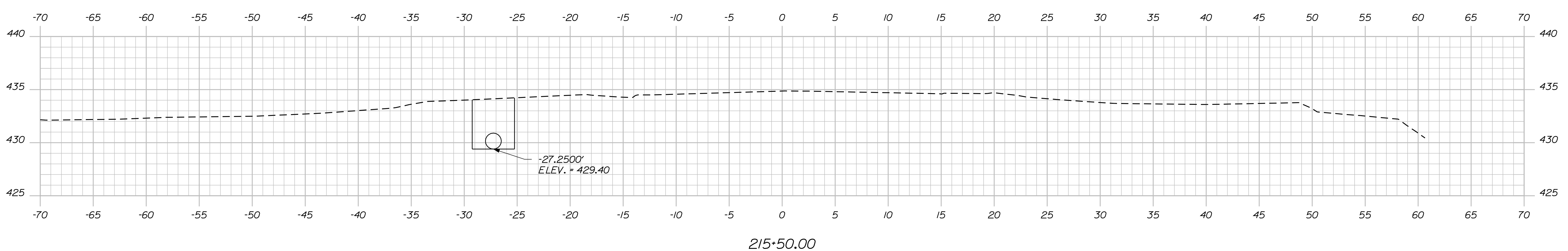


216+00.00



STA. 215+61.20 OUTLET 18" CULVERT PIPE, OPTION III
 CONSTRUCT RIPRAP APRON AS SHOWN ON PLANS
 AS DIRECTED BY THE RESIDENT

215+61.20



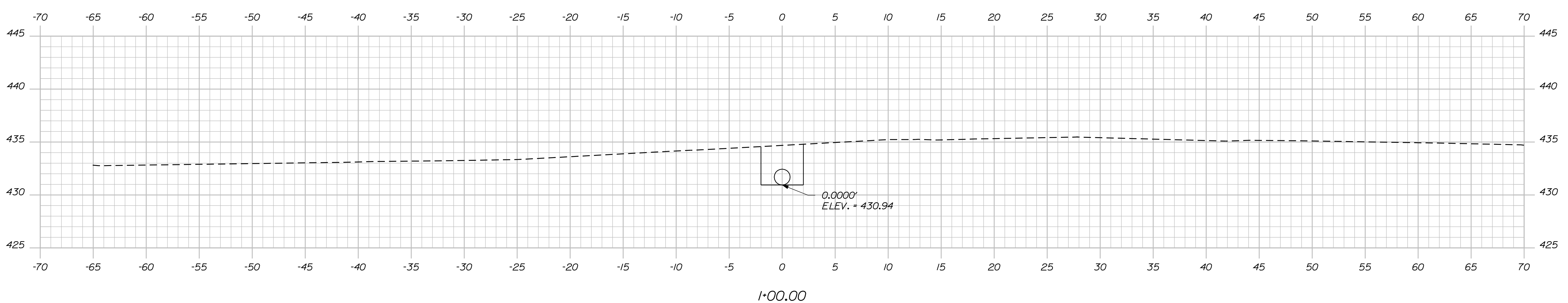
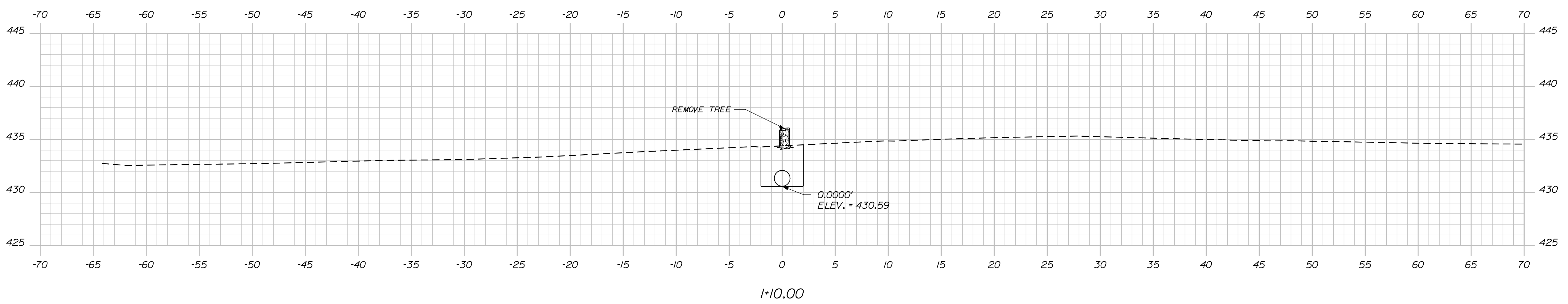
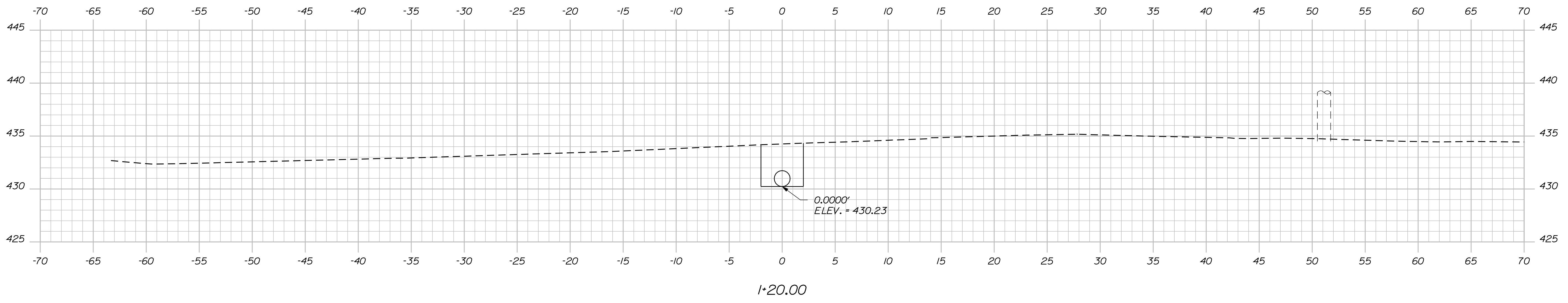
215+50.00

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STP-1981(300)X	
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HIGHWAY PLANS	

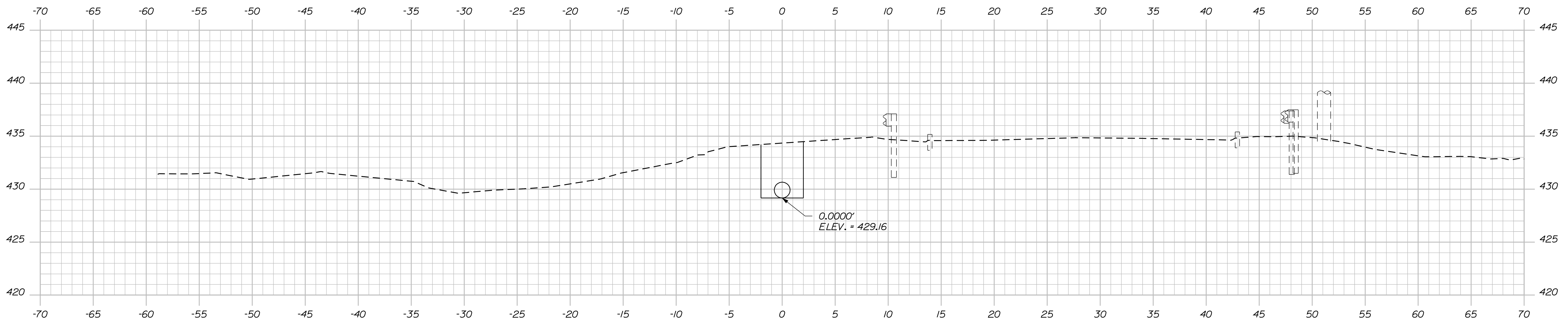
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CHECKED-REVIEWED	CHECKER	DATE
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REVISIONS 1	REVISION	DATE
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CARIBOU STATE ROUTE 161 CROSS SECTIONS

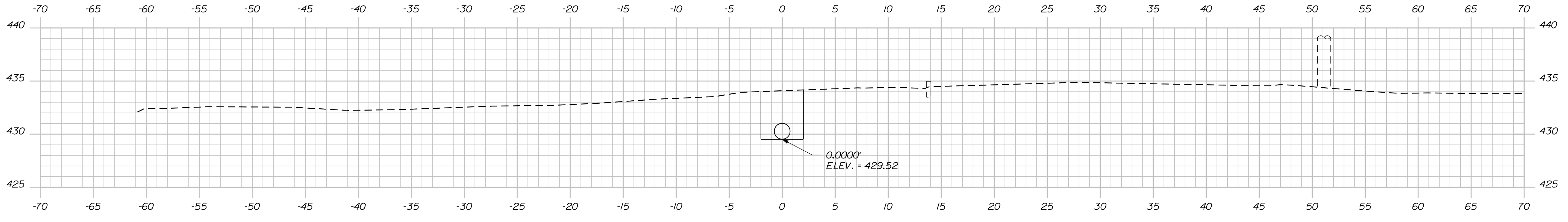
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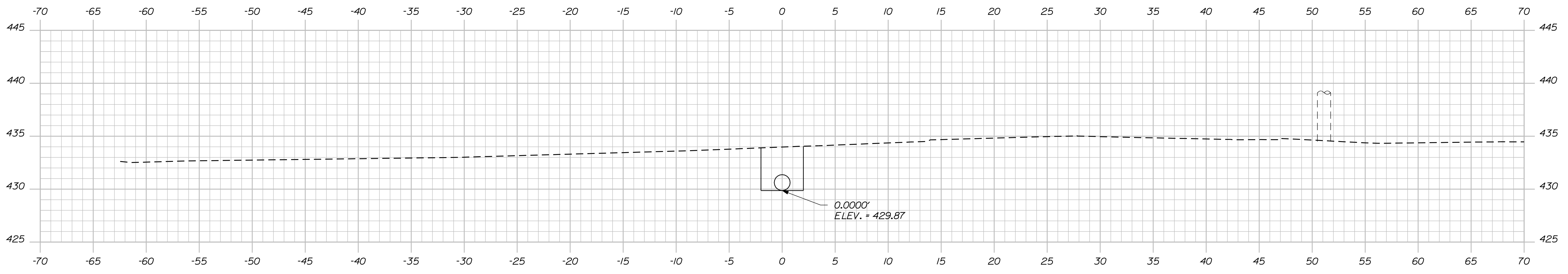
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FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES
CARIBOU STATE ROUTE 161 CROSS SECTIONS			
SHEET NUMBER 16 OF 21			



1+50.00



1+40.00



1+30.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1981(300)X
WIN
19813.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE
CHECKED-REVIEWED	DESIGNER	DATE
DESIGN DET AILED	DESIGNER	DATE
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REVISIONS 1	REVISIONS 1	DATE
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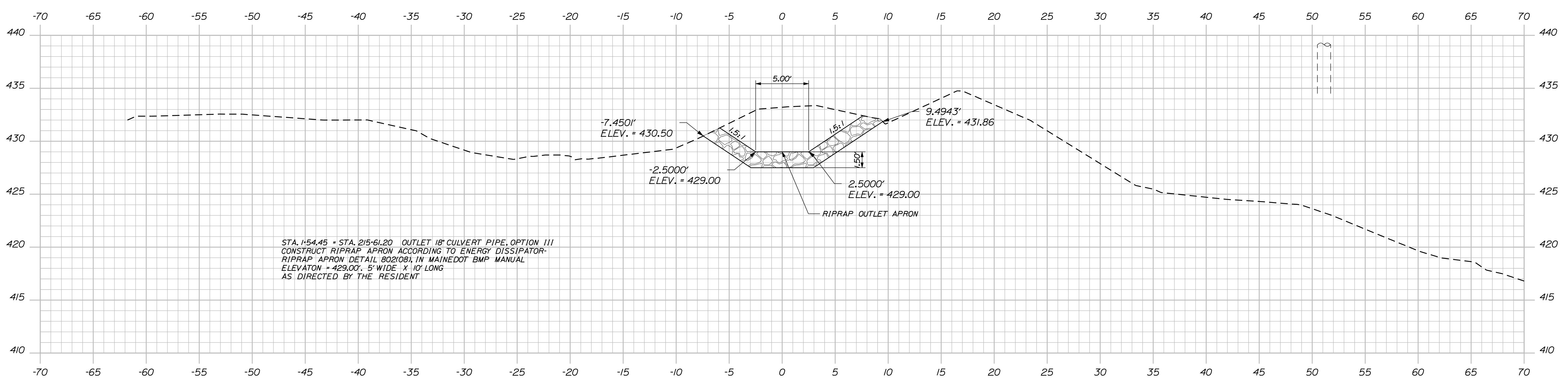
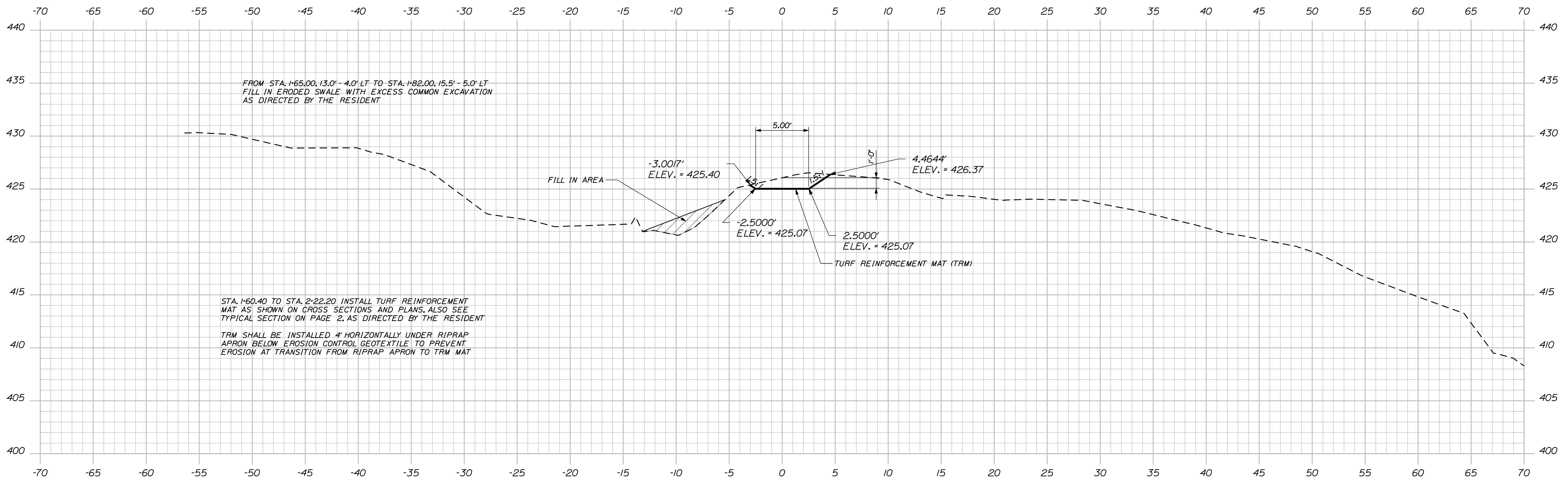
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CARIBOU
STATE ROUTE 161
CROSS SECTIONS

SHEET NUMBER
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OF 21

Username: Raymond.demarchant Date: 8/10/2012

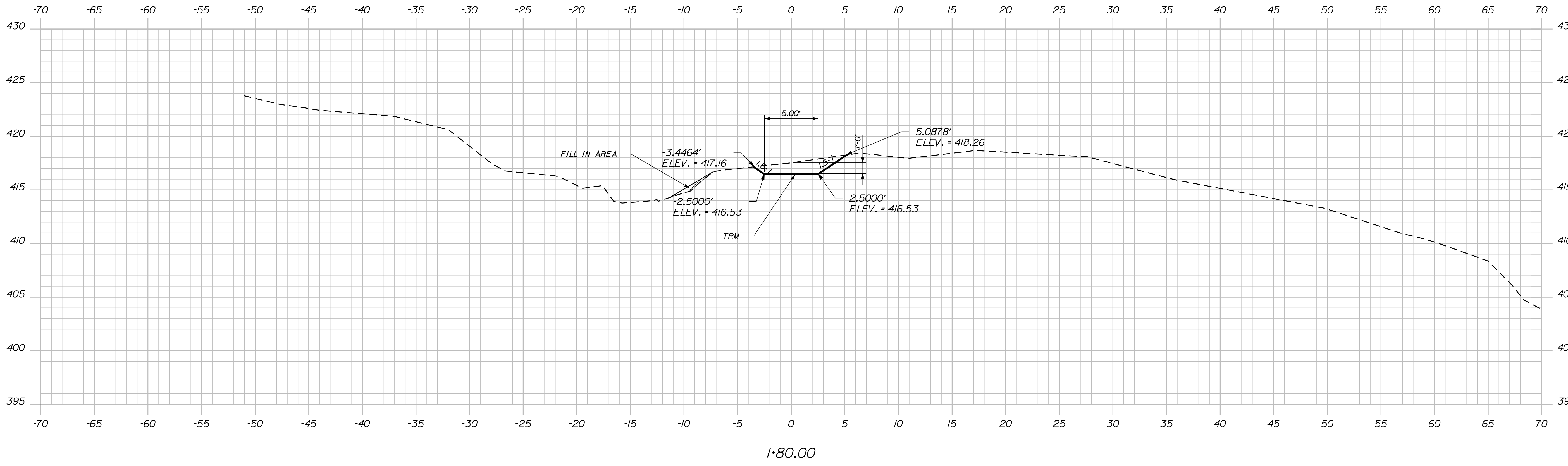
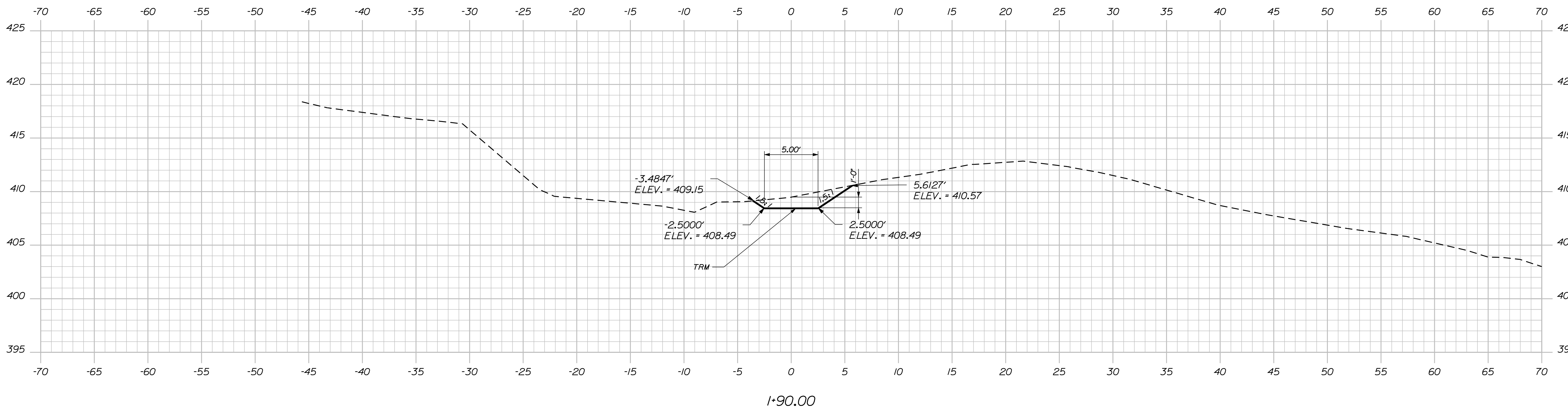
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STP-1981(300)X		WIN	
19813.00		HIGHWAY PLANS	
PROJ. MANAGER	DESIGNER	CHECKED	DATE
DESIGNED	DRAWN	DATE	DATE
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4
FIELD CHANGES	FIELD CHANGES	FIELD CHANGES	FIELD CHANGES
SIGNATURE		P.E. NUMBER	
DATE		DATE	
CARIBOU STATE ROUTE 161 CROSS SECTIONS			
SHEET NUMBER			
18			
OF 21			

Username: Raymond.demarchant Date: 8/10/2012

Filename: ... \019_Xsect_bridge_channel_1+80_004.dbf Division: HIGHWAY



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1981(300)X
WIN
19813.00
HIGHWAY PLANS

PROJ. MANAGER	DESIGNER	CHECKED	DATE
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PROJ. MANAGER 2	DESIGNER 2	CHECKED 2	DATE 2
PROJ. MANAGER 3	DESIGNER 3	CHECKED 3	DATE 3
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SIGNATURE
P.E. NUMBER
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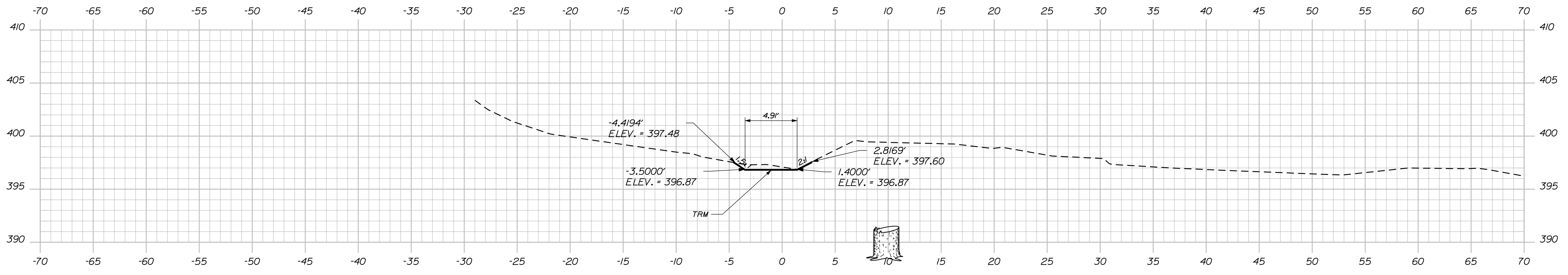
CARIBOU
STATE ROUTE 161
CROSS SECTIONS

SHEET NUMBER
19
OF 21

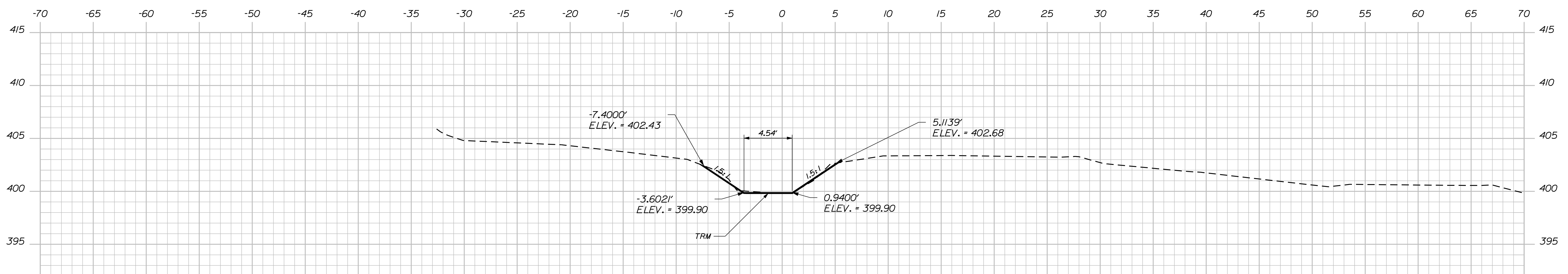
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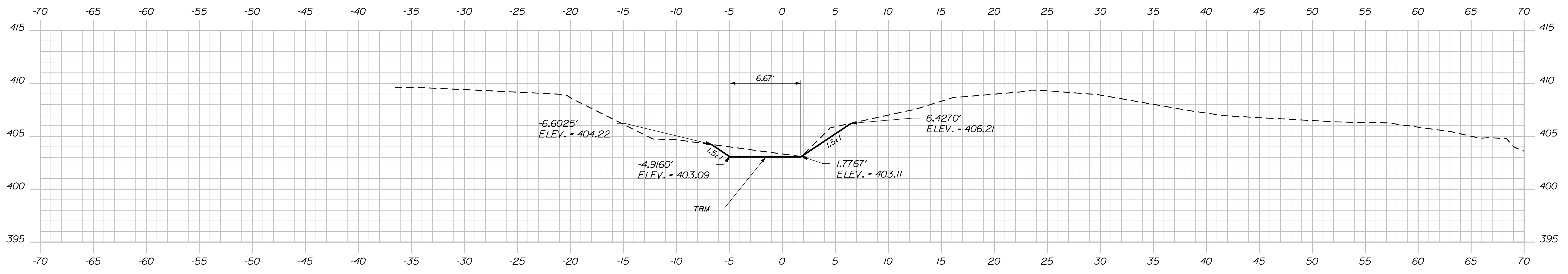
STA. 2+22.20 = END TURF REINFORCEMENT MAT TREATMENT AS DIRECTED BY THE RESIDENT



2*20.00

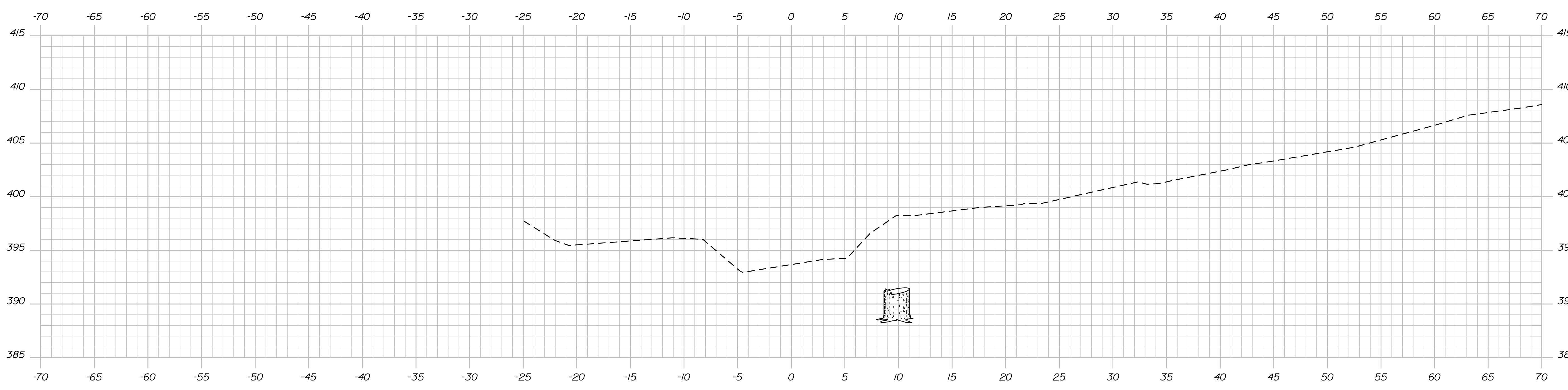
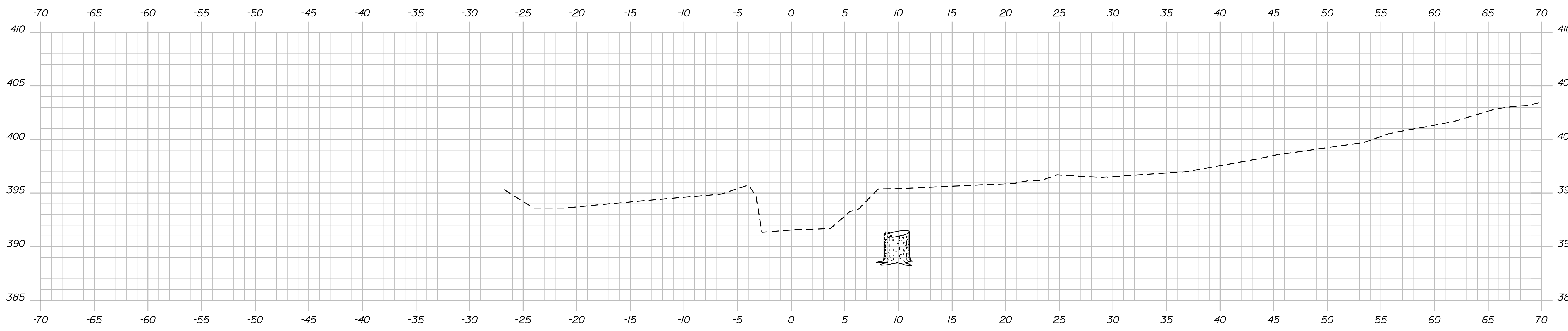


2*10.00



2*00.00

STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
STP-1981(300)X		WIN 19813.00	
HIGHWAY PLANS			
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DESIGNED	DRAWN	DATE	
REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4
FIELD CHANGES			
SIGNATURE		P.E. NUMBER	
DATE			
CARIBOU STATE ROUTE 161			
CROSS SECTIONS			
SHEET NUMBER			
20			
OF 21			



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
STP-1981(300)X
WIN
19813.00
HIGHWAY PLANS

PROJ. MANAGER	BY	DATE	SIGNATURE
DESIGN DETAILED	DESIGNER	DATE	
CHECKED-REVIEWED	CHECKER	DATE	
DESIGN DETAILED	DESIGNER	DATE	
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REVISIONS 1	---	---	
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REVISIONS 4	---	---	
FIELD CHANGES	---	---	

CARIBOU
STATE ROUTE 161
CROSS SECTIONS

SHEET NUMBER
21
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