

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



CARMEL
PENOBSCOT COUNTY
MCRR CROSSING BRIDGE
OVER
MAINE CENTRAL RAILROAD
ROUTE 2
FEDERAL AID PROJECT NO. BR-1562(200)X
PROJECT LENGTH 0.166 mi.
BRIDGE REPLACEMENT
BRIDGE NO. 2976

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UTILITIES

Central Maine Power Company
Fairpoint Communications

Time Warner Cable
Mid Maine Telecom

MAINTENANCE OF TRAFFIC

Maintain two - way traffic using a 2 lane temporary detour.

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Fourth Edition 2007 and Interim Specifications through 2009.

DESIGN LOADING

Live Load HL - 93 Modified

TRAFFIC DATA

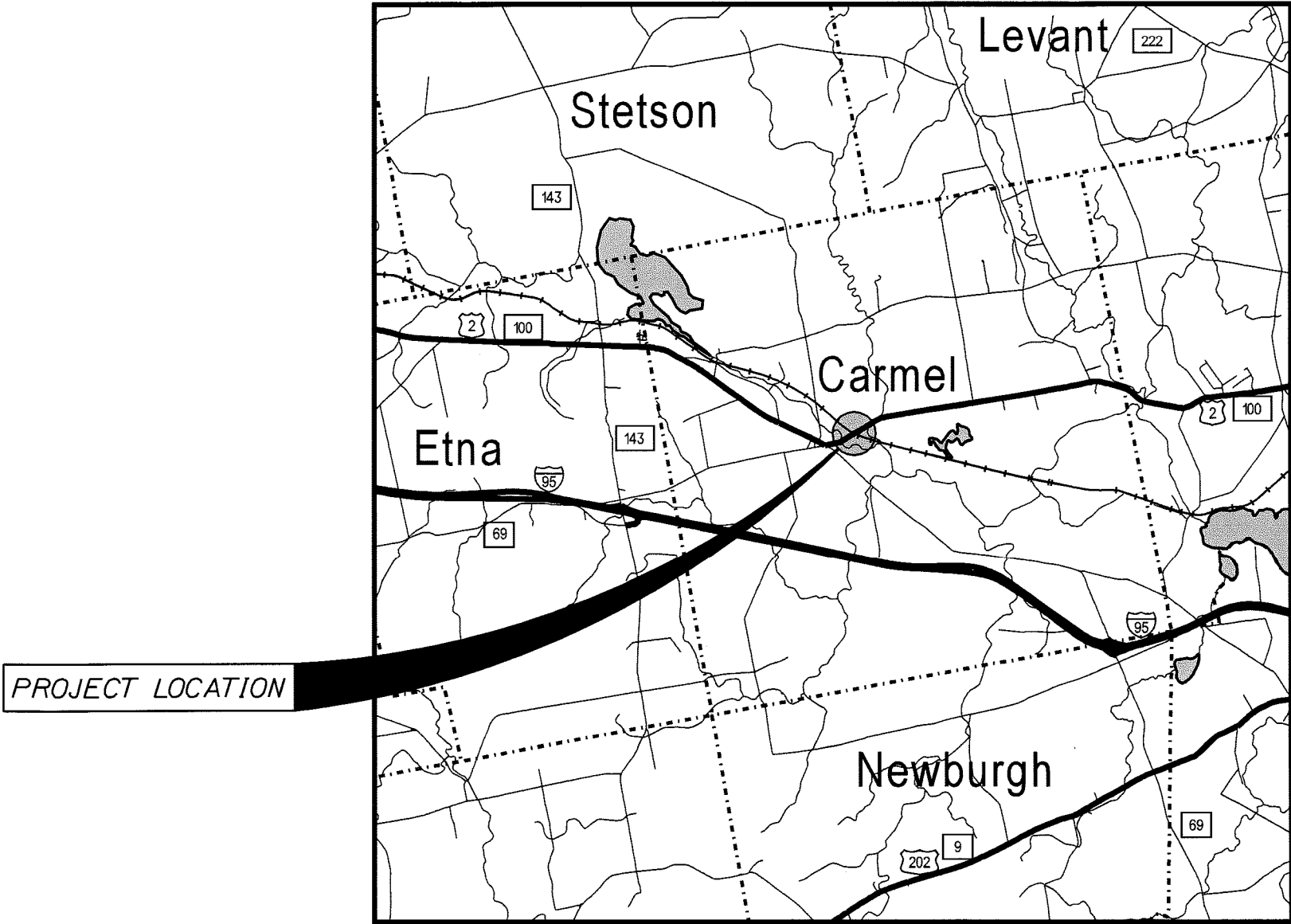
Current (2007) AADT	3540
Future (2027) AADT	4250
DHV - % of AADT	12
Design Hour Volume	510
Heavy Trucks (% of AADT)	12
Heavy Trucks (% of DHV)	8
Directional Distribution (% of DHV)	70
18 kip Equivalent P 2.0	478
18 kip Equivalent P 2.5	455
Design Speed (mph)	35

MATERIALS

Concrete:	
Barriers, Curbs, Sidewalks & Transition Barriers	Class "LP"
Precast	Class "P"
Fill	"Fill"
All Other	Class "A"
Reinforcing Steel	ASTM A 615/A 615M, Grade 60
Prestressing Strands	AASHTO 203 (ASTM A 416), Grade 270, Low Relaxation

BASIC DESIGN STRESSES

Concrete	f 'c = 4,350 psi
Precast Concrete	f 'c = 7,000 psi
	f 'ci = 5,000 psi
Reinforcing Steel	f y = 60,000 psi
Prestressing Strand	F μ = 270,000 psi



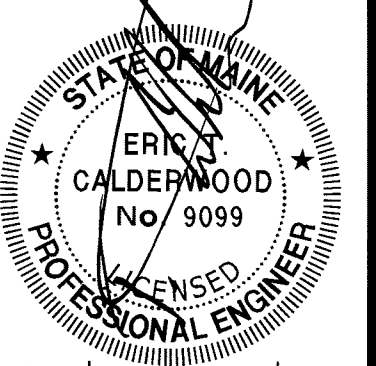
LOCATION MAP



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

APPROVED: [Signature]
COMMISSIONER: [Signature]
CHIEF ENGINEER: [Signature]

DATE: 9/1/10



SIGNATURE: [Signature]
P.E. NUMBER: [Blank]
DATE: [Blank]

PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE
Bridge Program Team North	S. Bodge & M. Wight	M. Wight	Calderwood Engineering	x	x	x

CARMEL
MCRR CROSSING BRIDGE

TITLE SHEET

SHEET NUMBER

1

OF 67

Date: 8/31/2010

Username: richard.nimon

Division: BRIDGE

Filename: \MSTA\001_Title_Sheet.dgn

PIN 15622.00

015622.00

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.15	REMOVE EXISTING CATCH BASINS	1	EA
202.19	REMOVE EXISTING BRIDGE (275 CY)	1	LS
203.20	COMMON EXCAVATION	14,325	CY
203.2318	DISPOSAL OF SPECIAL WASTE	100	T
203.24	COMMON BORROW	1,910	CY
203.25	GRANULAR BORROW	2,625	CY
206.07	STRUCTURAL ROCK EXC. - DR & MINOR SCTRUCTURES	5	CY
206.082	STRUCTURAL EARTH EXC. - MAJOR STRUCTURES	1165	CY
304.10	AGGR SUBB COURSE - GRAVEL	4,765	CY
403.207	HOT MIX ASPHALT 19MM HMA	1020	T
403.208	HOT MIX ASPHALT 12.5MM HMA SURFACE	800	T
403.209	HOT MIX ASPHALT 9.5 MM HMA (SIDEWALKS, DRIVES, INCIDENTALS)	40	T
403.213	HOT MIX ASPHALT 12.5MM HMA BASE	740	T
409.15	BITUMINOUS TACK COAT - APPLIED	55	G
502.219	STRUCTURAL CONCRETE ABUT & RET WALL (1130 CY)	1	LS
502.31	STRUCTURAL CONCRETE APPROACH SLAB (35 CY)	1	LS
502.49	STRUCTURAL CONCRETE CURBS & SW (8 CY)	1	LS
502.56	CONCRETE FILL	140	CY
503.12	REINFORCING STEEL, FAB & DEL	105,755	LB
503.13	REINFORCING STEEL, PLACING	105,755	LB
507.0831	STEEL BRIDGE RAILING, 4 BAR (97 LF)	1	LS
508.14	HIGH PERFORMANCE WATERPROOFING MEMBRANE (250 SY)	1	LS
510.10	SPEC. DETOUR _ 34' ROAD	1	LS
512.081	FRENCH DRAIN (268 LF)	1	LS
514.06	CURING BOX FOR CONC CYL	1	EA
515.20	PROT COAT FOR CONC SURFACES	96	SY
526.301	TEMPORARY CONCRETE BARRIER - TYPE 1 (170 LF)	1	LS
526.34	PERMANENT CONCRETE TRANSITION BARRIER	4	EA
527.34	WORK ZONE CRASH CUSHIONS	2	UN
535.60	PRESTRESSED STRUCTURAL CONC SLAB (130 CY)	1	LS
603.169	15' CULVERT PIPE OPTION III	20	LF
603.179	18' CULVERT PIPE OPTION III	420	LF
604.092	CATCH BASIN TYPE B1-C	1	EA
604.15	MANHOLE	1	EA
604.246	CATCH BASIN TYPE F5	1	EA
606.1721	BRIDGE TRANSITION - TYPE 1	4	EA
606.23	GUARDRAIL TYPE 3C - SINGLE RAIL	1200	LF
606.232	GUARDRAIL TYPE 3C - OVER 15' RADIUS	25	LF
606.265	TERMINAL END - SINGLE RAIL - GALV.	1	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
606.369	GUARDRAIL REMOVED AND STACKED	1240	LF
606.79	GUARDRAIL 350 FLARED TERMINAL	3	EA
607.15	DRIVE GATEWAY 16 FOOT - METAL	1	EA
607.19	CHAIN LINK FENCE - 8'	32	LF
609.31	CURB TYPE 3	135	LF
610.08	PLAIN RIPRAP	2	CY
613.319	EROSION CONTROL BLANKET	40	SY
615.0701	LOAM- PLAN QUANTITY	645	CY
618.1301	SEEDING METHOD #1- PLAN QUANTITY	2	UN
618.1401	SEEDING METHOD #2 - PLAN QUANTITY	15	UN
618.1411	SEEDING METHOD #3 - PLAN QUANTITY	88	UN
619.1201	MULCH - PLAN QUANTITY	103	UN
619.1401	EROSION CONTROL MIX	1290	CY
621.044	EVERGREEN TREES 6'-8' B&B GROUP B	3	EA
621.047	EVERGREEN TREES 8'-9' B&B GROUP B	2	EA
621.273	LG. DECIDUOUS TREES 2' -2 1/2' CAL. B&B GROUP A	5	EA
627.733	4" WHITE OR YELLOW PAINTED PAVE MARK LINE	3750	LF
627.76	TEMPORARY- WH OR YELL PYMT MARKING LINE	1	LS
629.05	HAND LABOR, STRAIGHT TIME	120	HR
631.12	ALL PURPOSE EXCAVATOR (INC OPERATOR)	40	HR
631.15	ROLLER EARTH BASE CRS. (INC OPERATOR)	40	HR
631.172	TRUCK-LARGE (INC OPERATOR)	80	HR
631.18	CHAIN SAW RENTAL (INC OPERATOR)	20	HR

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
639.18	FIELD OFFICE TYPE A	1	EA
652.31	TYPE I BARRICADE	8	EA
652.312	TYPE III BARRICADE	8	EA
652.33	DRUM	50	EA
652.34	CONE	100	EA
652.35	CONSTRUCTION SIGNS	244	SF
652.36	MAINTENANCE OF TRAFFIC CONTROL DEVICES	150	CD
652.38	FLAGGER	240	HR
656.75	TEMP. SOIL EROSION AND WATER POLL. CONTROL	1	LS
659.10	MOBILIZATION	1	LS
660.21	ON-THE-JOB TRAINING (BID)	1000	HR

GENERAL CONSTRUCTION NOTES

1. All Utility Facilities shall be adjusted by the respective Utilities unless otherwise noted.
2. For Easements, Construction Limits, and Right-Of-Way lines, refer to Right of Way Map.
3. During construction, the Road will be closed to Traffic for a time period specified in the Special Provisions.
4. Place a 2' wide strip of Temporary Erosion Control Blanket on the side slopes along the top of the Riprap, behind the Wing walls and Headwalls.
5. All Embankment Material, except as otherwise shown, placed below Elevation 160.0', shall be Granular Borrow meeting the requirements of Subsection 703.19, Material for Underwater Backfill.
6. The Clearing Limits as shown on the plans are approximate. The exact limits will be established in the field by the Resident. Payment for clearing will be considered incidental to Contract items.
7. Place Loom 2" deep on all side slopes.
8. Do not excavate for Aggregate Subbase Course where Existing Material is suitable as determined by the Resident.
9. In areas where the Resident directs the Contractor not to excavate to the Subgrade Line shown on the plans, payment for removing Existing Pavement, Grubbing, shaping, ditching, and compacting the Existing Subbase and layers of new Subbase 6" or less thick will be made under appropriate Equipment rental items.
10. Two Flexible Reflectorized Guardrail Markers shall be installed at each leading Guardrail End and one at each trailing Guardrail End.
11. An NCHRP350 compliant guardrail end treatment shall be installed concurrently with the placement of each section of Beam Guardrail.
12. Extended-use Erosion Control Blanket, Seeded Gutters, Riprap Downspouts, and other Gutters lined with Stone Ditch protection shall be constructed after Paving and Shoulder work is completed, where it is apparent that Runoff will cause continual Erosion. Payment will be made under appropriate Contract items.
13. Protective Coating for Concrete Surfaces shall be applied to the following areas:
All exposed Surfaces of Concrete Curbs and Sidewalks,
Fascia down to Drip Notch,
All exposed Surfaces of Concrete Transition Barriers
14. Project information referred to below may be accessed at the following MaineDot web address: <http://www.maine.gov/mdot/comprehensive-list-projects/project-information.php>.

The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for construction of the bridge. It is very unlikely that the plans will show any construction field changes or any alterations which may have been made to the bridge during its life span.

The Project geotechnical report titled: Geotechnical Design Report for the Replacement of: MCRR Crossing Bridge Route 2 and 100 over Maine Central Railroad Carmel Maine, MDOT Soils Report Number 2009-33, Nov. 25, 2009, may be accessed at the MaineDOT web address.

15. Geotechnical Information furnished or referred to in this plan set is for the Bidder's 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 interpretations of, or conclusions drawn from, the Geotechnical Information. The boring logs contained in the plan set present factual and interpretive subsurface information collected at discrete locations. Data provided may not be representative of the subsurface conditions between boring locations.

GENERAL CONSTRUCTION NOTES (cont.)

16. Quantities included for pay items measured and paid for by Lump Sum are estimated quantities and are provided by MaineDOT for informational purposes only. Lump Sum pay items will be paid for at the Contract Bid amount, with no addition or reduction in payment to the Contractor if the actual final quantities are different from the MaineDOT provided estimated quantities, except as follows:

a. If a Lump Sum pay item is eliminated, the requirements of Standard Specifications Section 109.2, Elimination of Items, will take precedence.

b. If other Contract Documents specifically allow a change in payment for a Lump Sum pay item, those requirements will be followed.

c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard specifications Section 109.7, Equitable Adjustments to Compensation.

17. The Contractor shall submit a Bridge Demolition Plan to the Resident at least 10 business days prior to the start of the demolition work. The plan shall outline the methods and equipment to be used to remove and dispose of all materials included in the existing bridge. No work related to removal of the bridge shall be undertaken by the Contractor until MaineDOT has reviewed the Bridge Demolition Plan for appropriateness and completeness. Payment for all work necessary for developing, submitting, and finalizing, the Demolition Plan will be considered incidental to the bridge removal pay item.

18. The existing bridge shall be removed by and become the property of the Contractor. The steel of the existing bridge are coated with a lead-based paint system. The Contractor is responsible for the containment, proper management, and disposal of all lead-contaminated hazardous waste generated by the process of demolishing the bridge. The Contractor is responsible for implementing appropriate OSHA mandated personal protection standards related to this process. Once the existing bridge is removed, the Contractor is solely responsible for the care, custody, and control of the components of the existing bridge and any hazardous waste generated as a result of the storage, recycling, or disposal of the bridge components, including lead coated steel. The Contactor shall recycle or reuse the steel in accordance with the Maine Department of Environmental Protection's "Maine Hazardous Waste Management Regulations," Chapter 850. A copy of this regulation is available at MaineDOT's offices on Child Street in Augusta. Payment for all labor, materials, equipment and other costs required to remove and dispose of the existing bridge will be considered incidental to the bridge removal pay item.

19. During a Phase I Environmental assessment of this project, coal ash was found to be present in the approximate upper 1 foot of the project area as shown and labeled on sheet 3. This material, if encountered, must be stockpiled on-site to be used as material behind the new bridge abutments. Any coal ash used in the embankment behind the proposed abutments shall be used outside the limits of structural excavation. The coal ash material needs to be stored on polyethylene sheets and covered by polyethylene sheeting until it is reused behind the bridge abutments. The Resident shall determine if the coal ash material is suitable for use as common borrow. If the material cannot be reused on site, the Contractor is responsible for obtaining all approvals or permits and any required analytical results for proper disposal at a licensed MDEP facility. The Contractor shall employ appropriate health and safety measures to protect its workers against hazards associated with working near coal ash impacted soils. If the Contractor encounters additional evidence of soil or groundwater contamination, the Contractor shall secure the excavation, stop work in the contaminated area, and immediately notify the Resident. The Resident shall contact the Hydrogeologist in MaineDOT's Environmental Office at 207-624-3100 and the Maine Department of Environmental Protection at 800-482-0777. Work may only continue with authorization from the Resident.

20. Erosion control mix may be substituted in those areas normally recieving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specification 619, Mulch. Payment will be made under Item 619.1401 Erosion Control Mix.



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

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PIN 15622.00
BRIDGE NO. 2976
BRIDGE PLANS

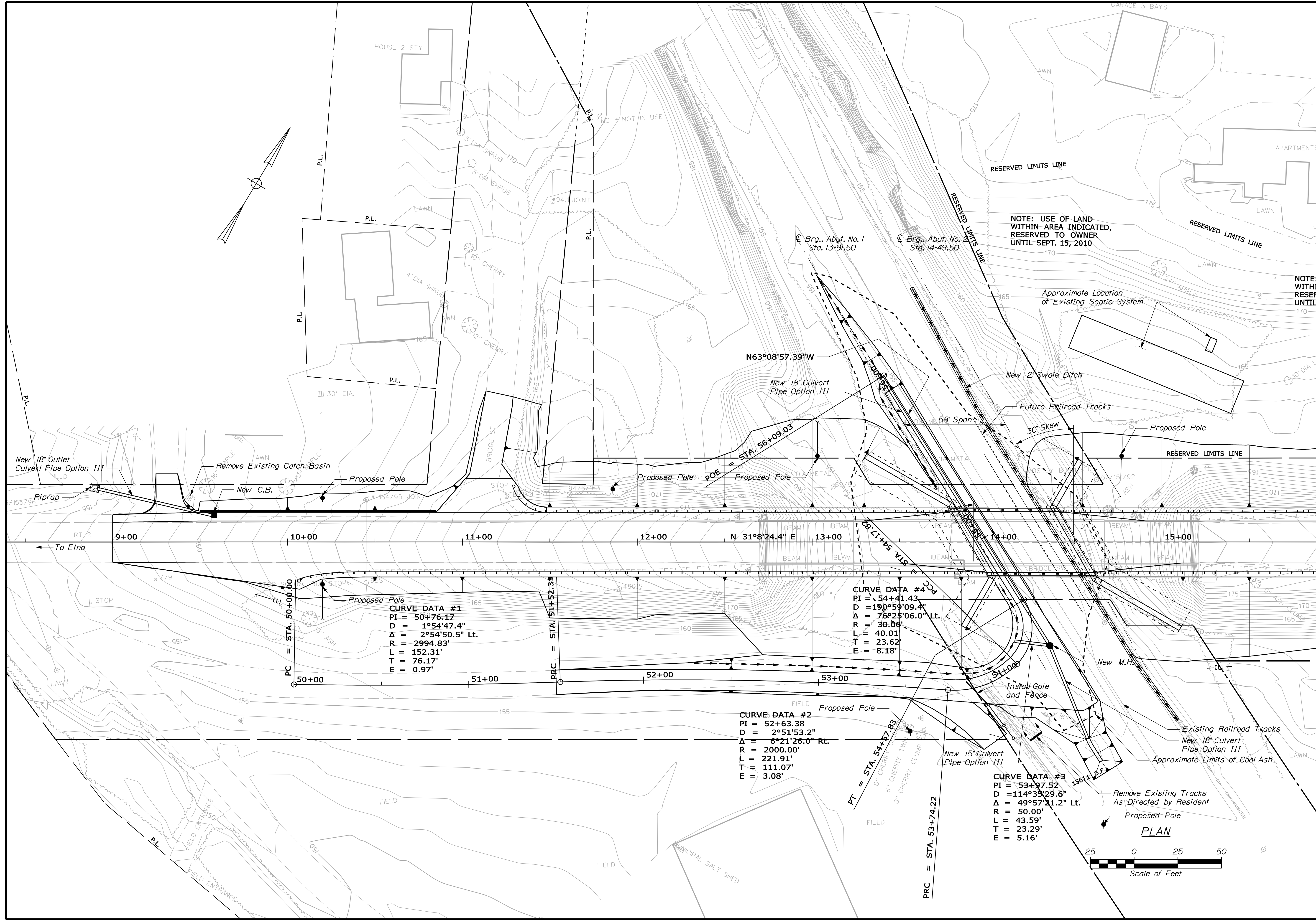
MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL
PENOBSCOT COUNTY

ESTIMATED QUANTITIES

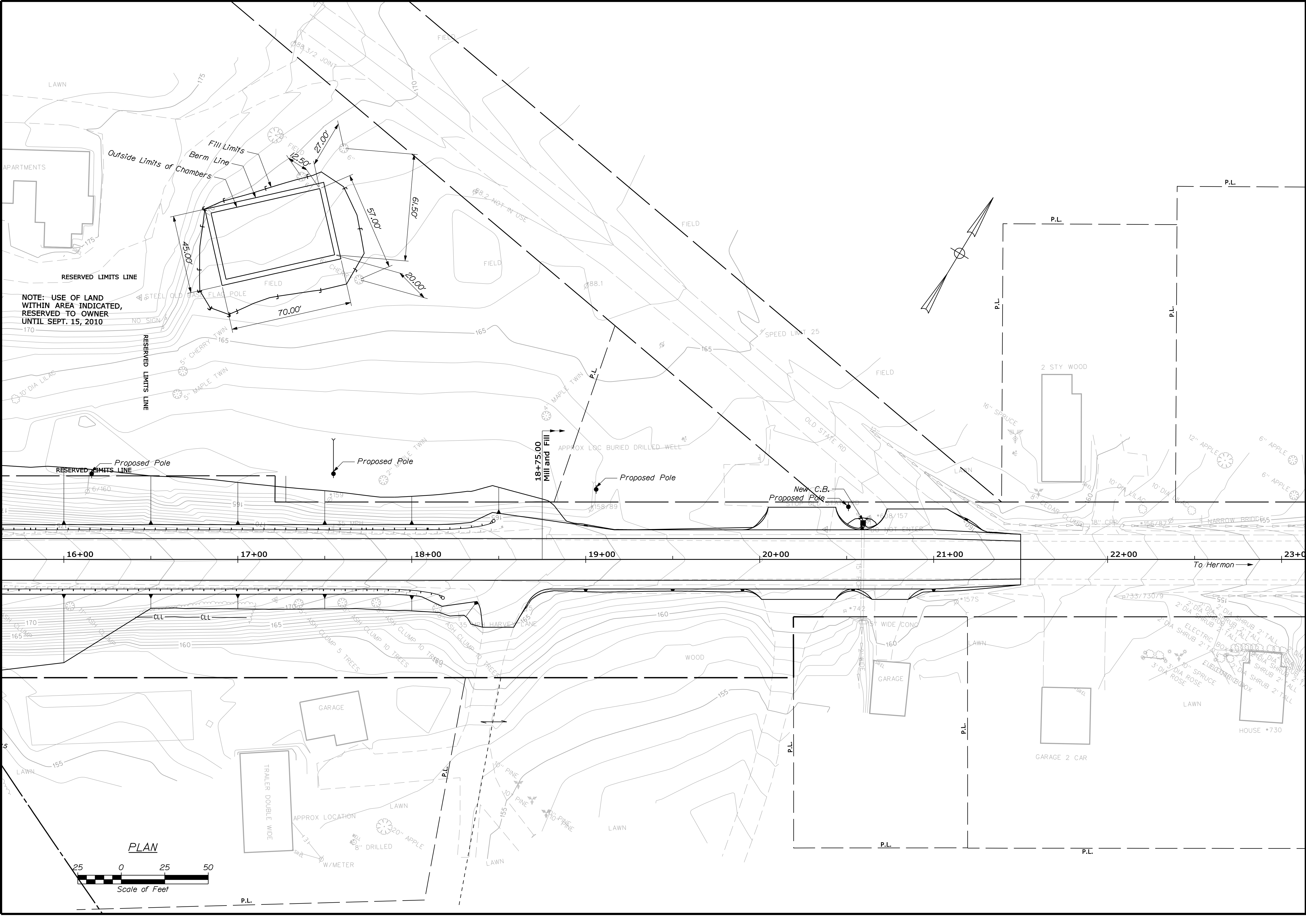
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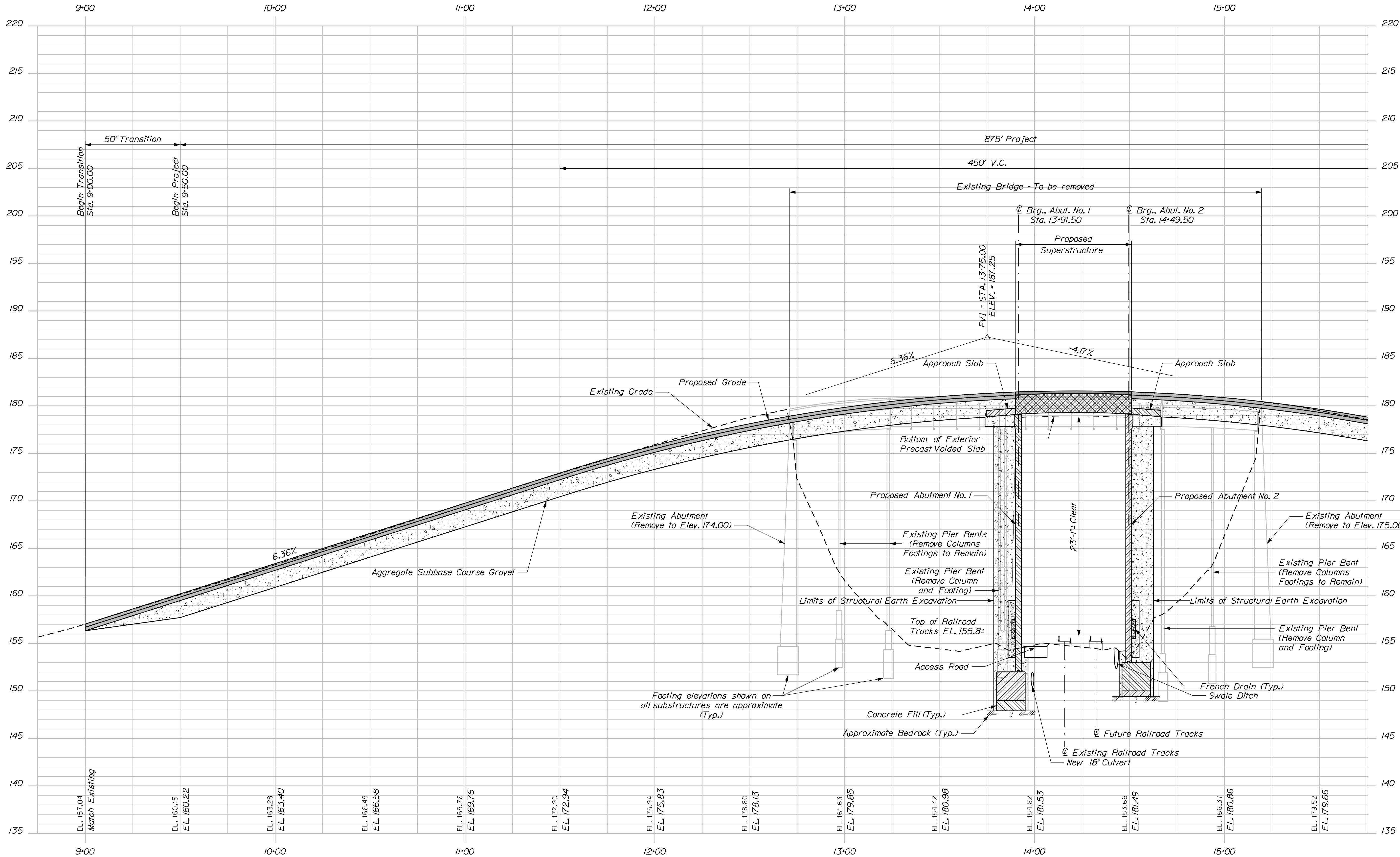
OF 67



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STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
015622.00		PIN 15622.00	
BRIDGE NO. 2976		BRIDGE PLANS	
MCCR CROSSING BRIDGE		PENOBSCOT COUNTY	
MAINE CENTRAL RAILROAD		CARMEL	
SHEET NUMBER		4	
OF 67		GENERAL PLAN	



PROFILE

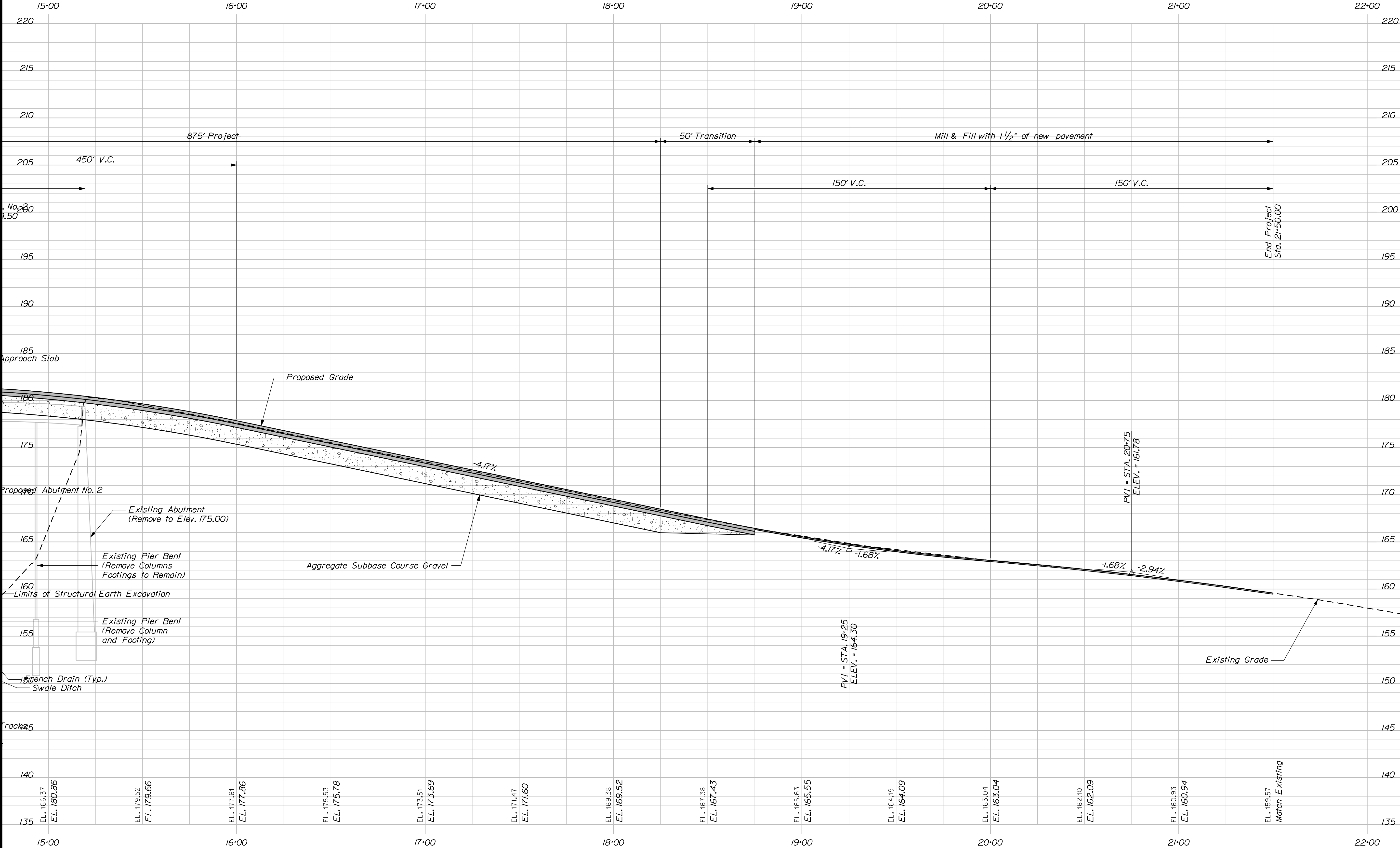
PROJ. MANAGER	BY	DATE	SIGNATURE
D. Anderson	R.J. NIMON	OCT 2009	
CHECKED-REVIEWED	DESIGNED-DETAILED	REVISIONS 1	REVISIONS 2
M. WIGHT			
REVISIONS 3	REVISIONS 4	FIELD CHANGES	

Date:9/9/2010

Username: richard.nimon

Division: BRIDGE

Filename: ... \MSTA\006_Profile_Route 2.dgn



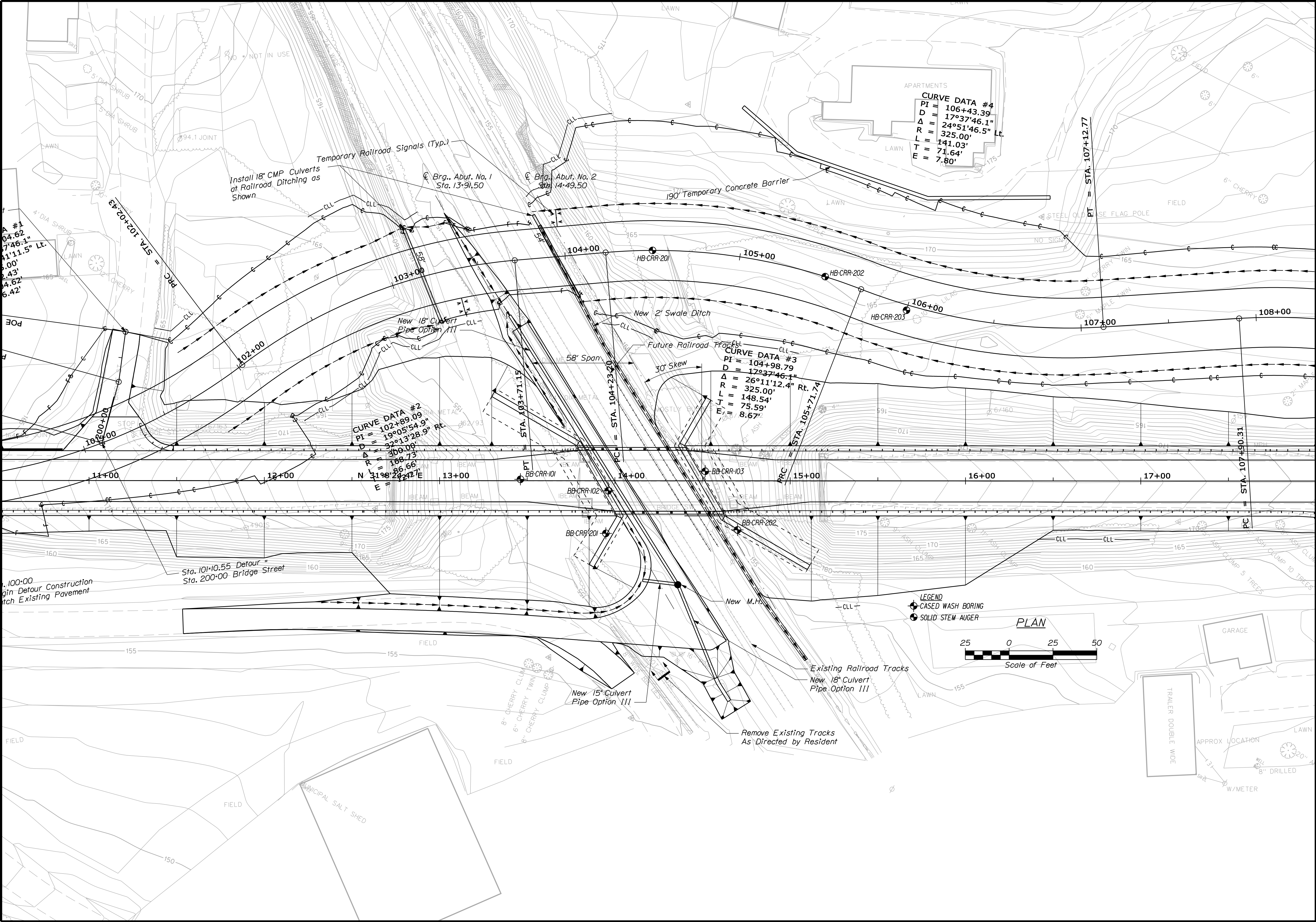
PROFILE

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	015622.00	
	PIN 15622.00	
	BRIDGE NO. 2976	
BRIDGE PLANS		

PROJ. MANAGER D. Anderson	BY R.J. NIMON	DATE OCT 2009
CHECKED-REVIEWED	SIGNATURE	
DESIGN-DETAILED	P.E. NUMBER	
REVISIONS 1		DATE
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY	PROFILE - ROUTE 2
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SHEET NUMBER
6
OF 67



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

015622.00

PIN 15622.00
BRIDGE NO. 2976

BRIDGE PLANS

PROJ. MANAGER	D. Anderson	BY	T. WHITE	DATE	OCT 2009
DESIGN-DETAILED	LL KRUSINSKI	DESIGNED		SIGNATURE	
CHECKED-REVIEWED		DESIGNED		P.E. NUMBER	
DESIGNS DETAILING		DESIGNED		DATE	
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL

PENOBSCOT COUNTY

BORING LOCATION PLAN

SHEET NUMBER

7

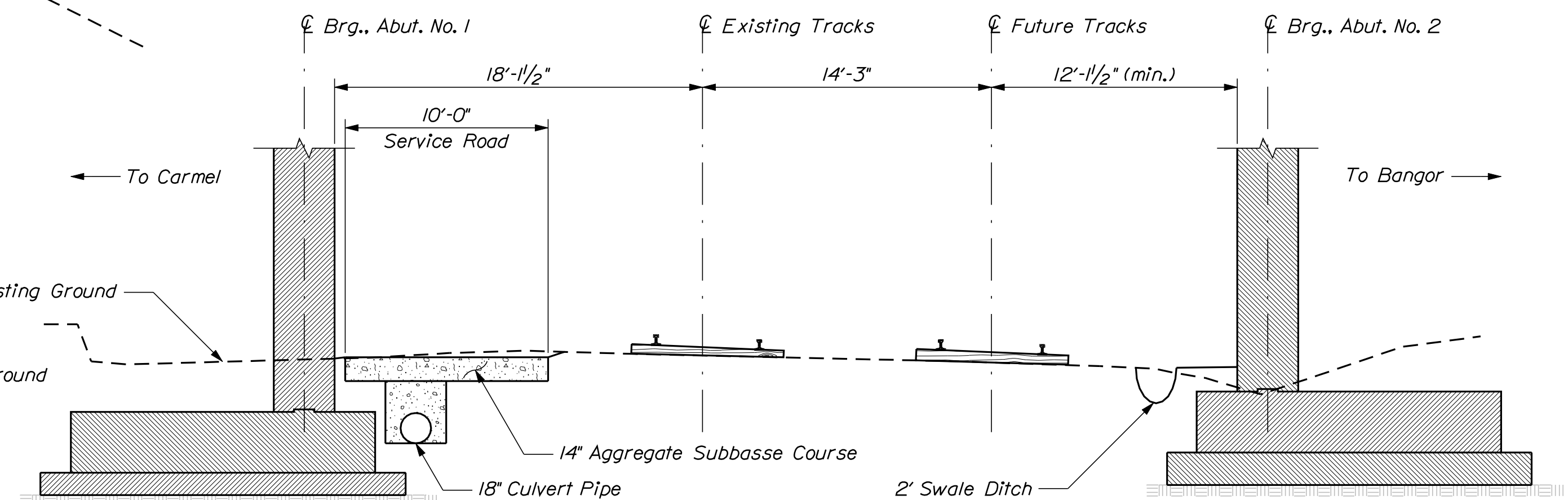
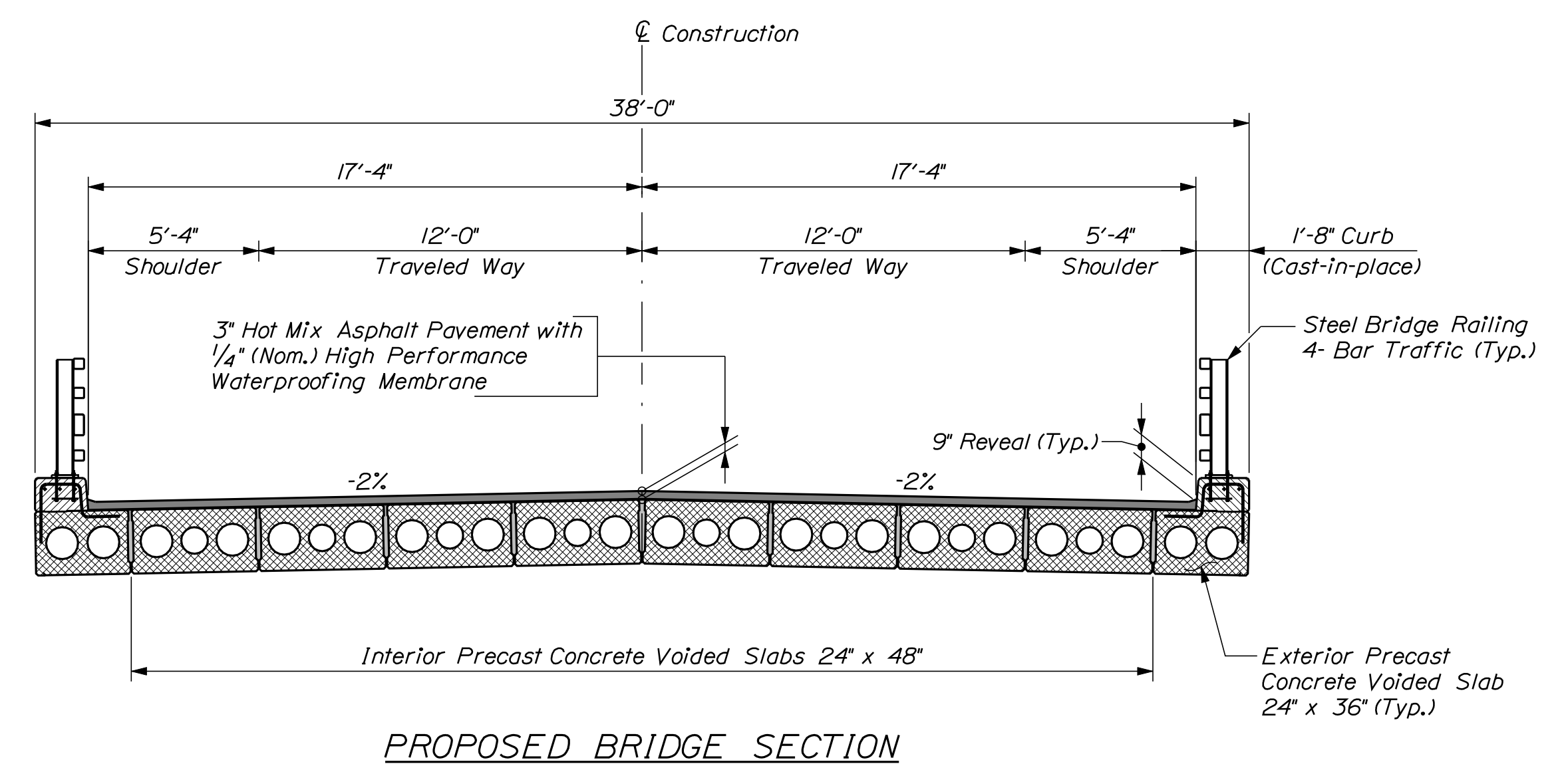
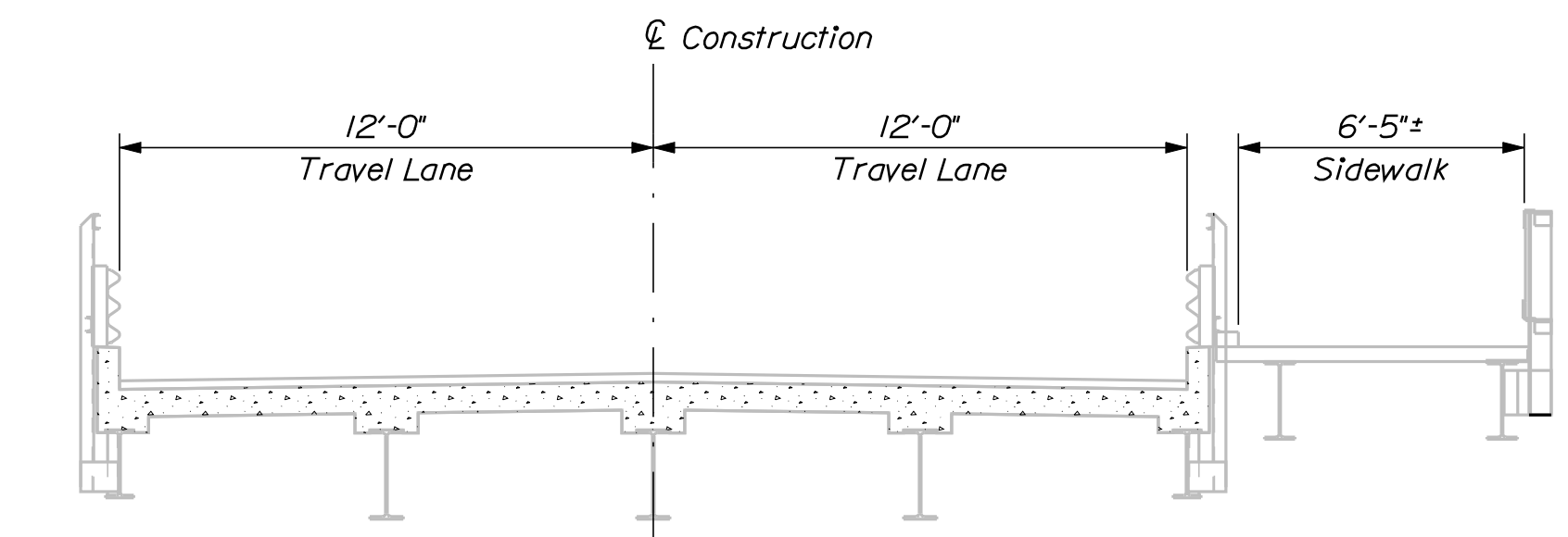
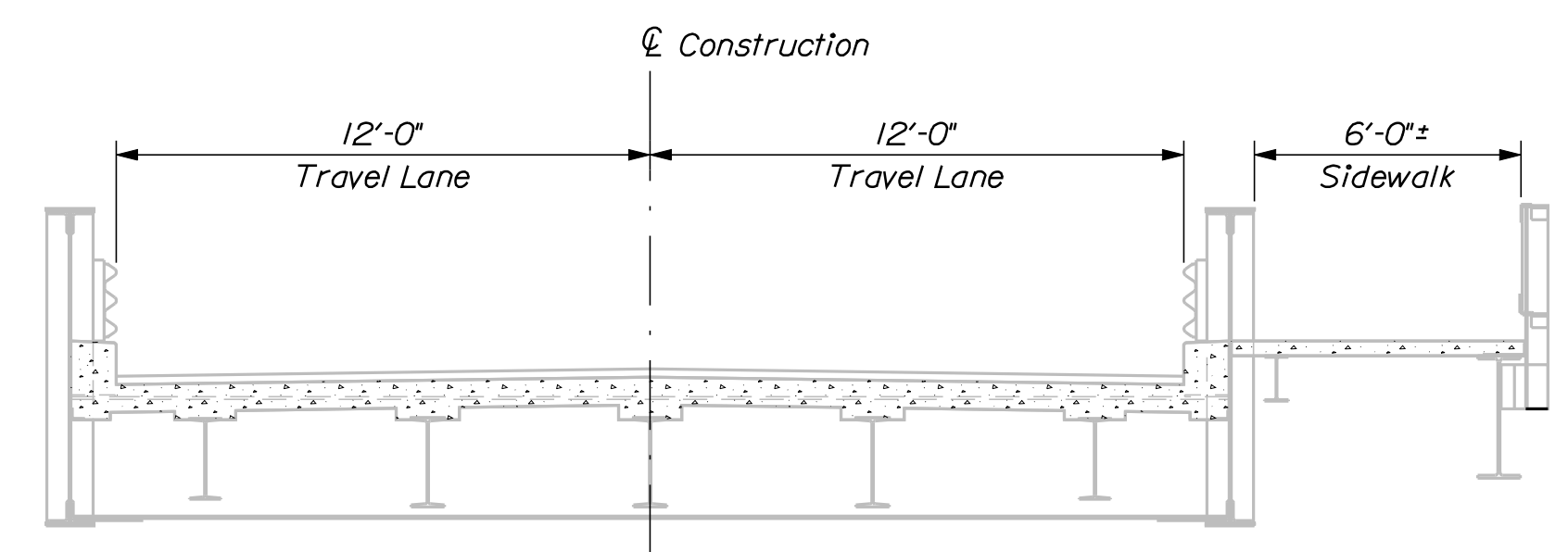
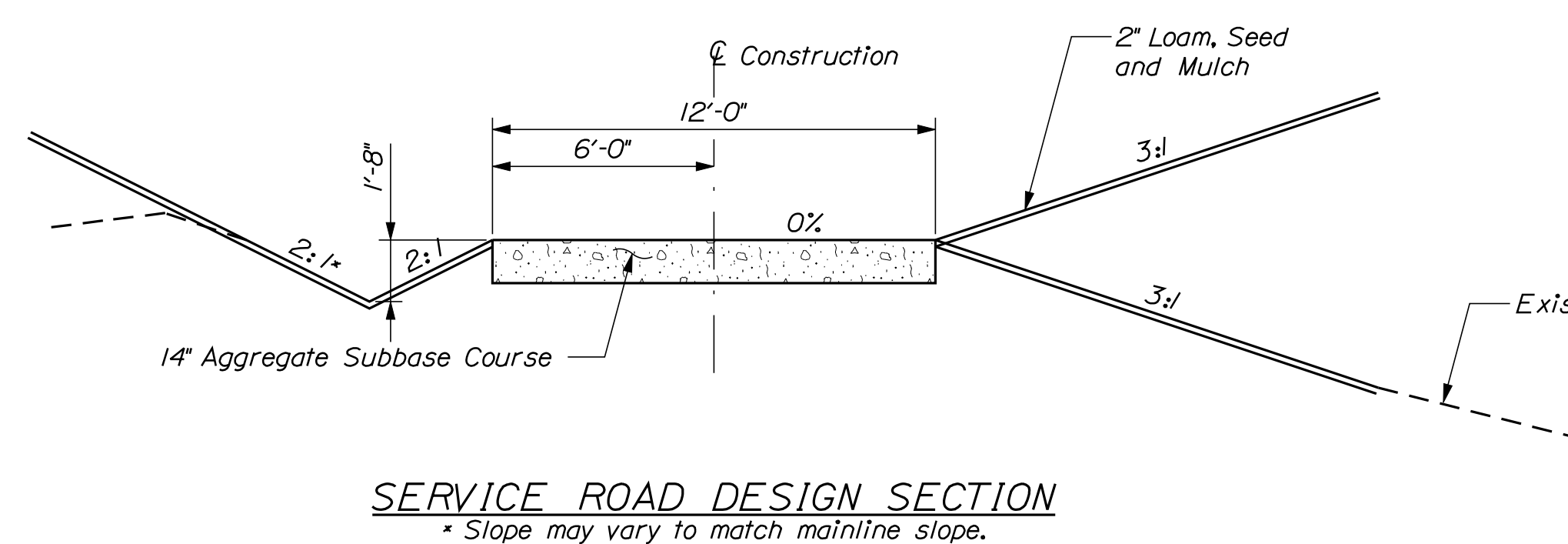
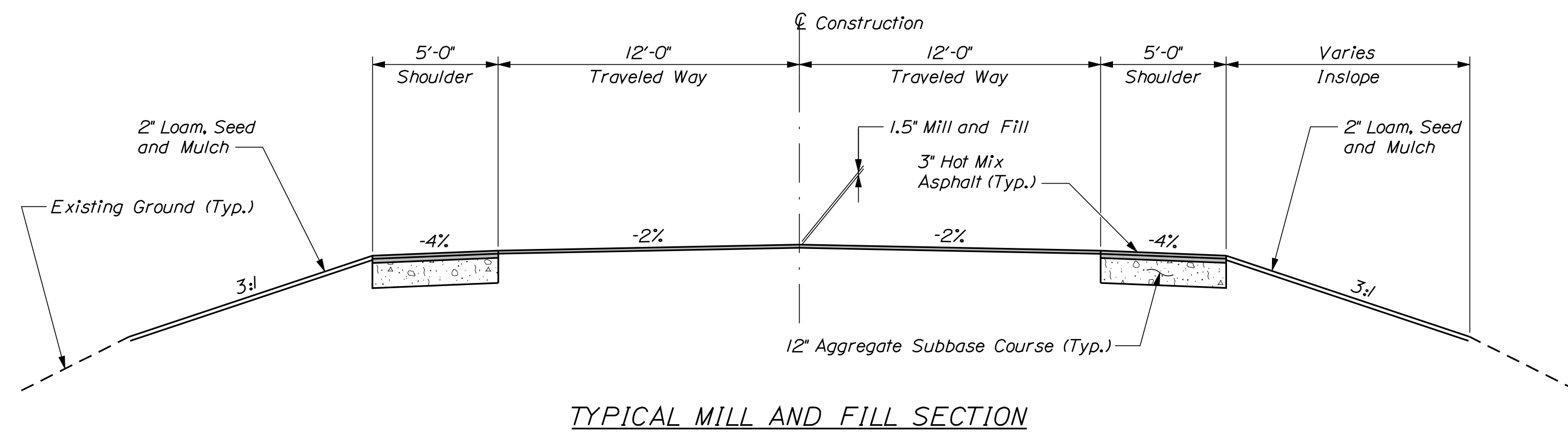
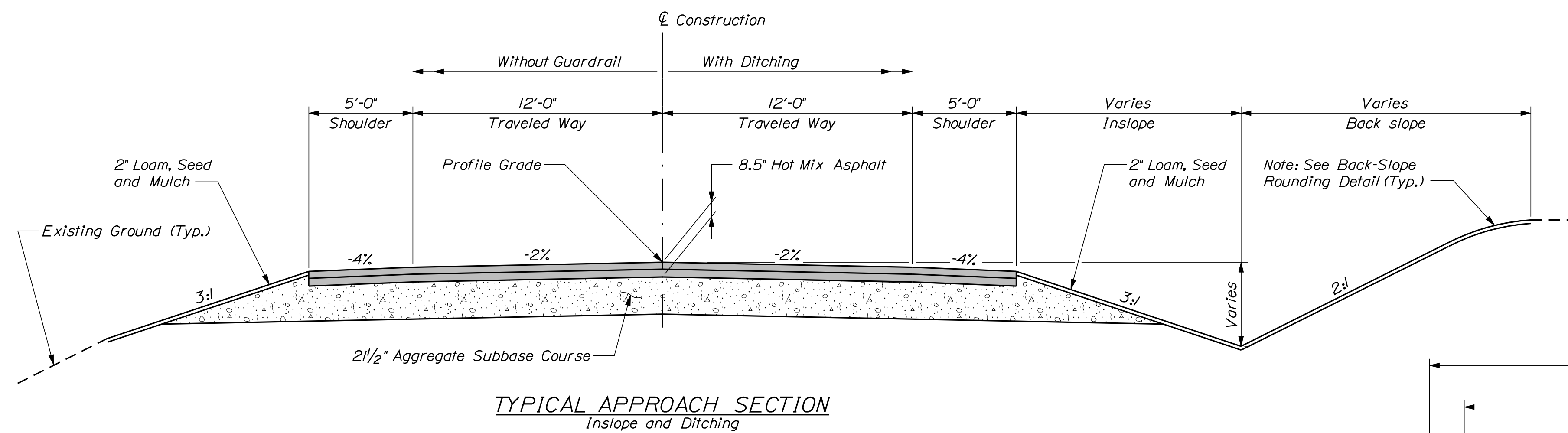
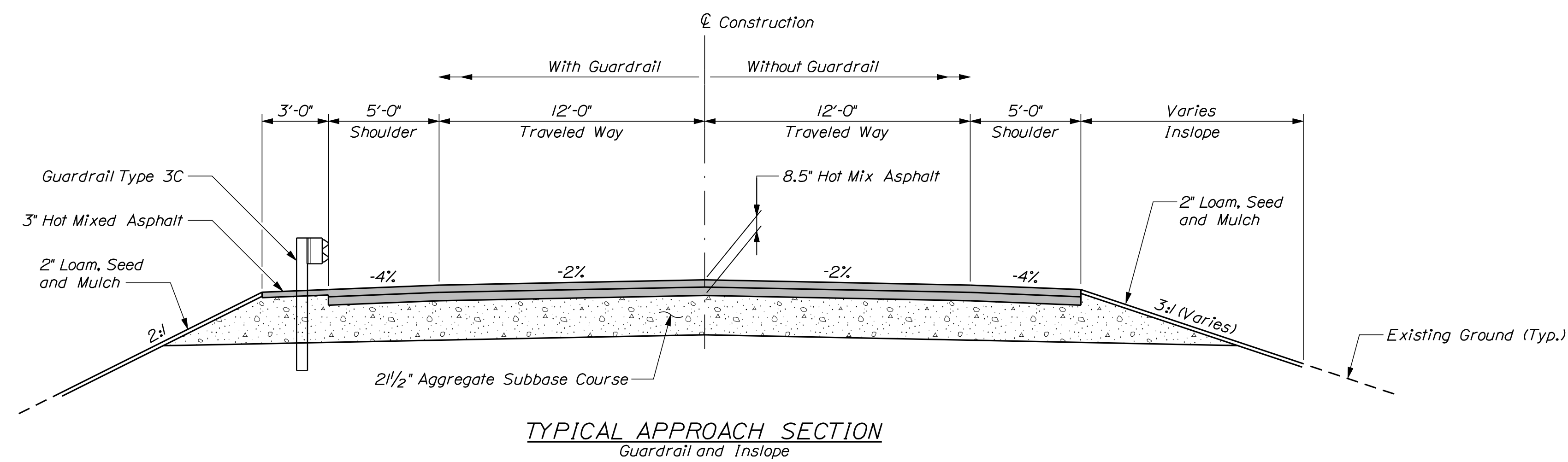
OF 67

Maine Department of Transportation										Project: MCR Crossing Bridge #2976		Boring No.: BB-CRR-101	
Soil/Rock Exploration Log										Carrying Routes 2/100 over Maine		Location: Carmel, Maine	
US CUSTOMARY UNITS										PIN: 15622-00			
Driller:		MainDOT			Elevation (ft.):		154.5		Auger ID/OD:		5" Solid Stem		
Operator:		E. Giguere/C. Giles			Datum:		NAVD 88		Sampler:		Standard Split Spoon		
Logged By:		L. Krusinski			Rig Type:		CME 45C		Hammer Wt./Fall:		140#/30"		
Date Start/Finish:		6/10/08-6/10/08			Drilling Method:		Cased Wash Boring		Core Barrel:		NO-2"		
Boring Location:		13486.1, 0.81 Lt.			Casing ID/OD:		HW		Water Level:		None Observed		
Hammer Efficiency Factor: 0.77										Hammer Type:		Automatic (S) Hydraulic () Rope & Cathead ()	
Definitions S = Split Spoon Sample SS = Split Stem Auger HA = Hollow Stem Auger W = Wash Auger U = Unconfined Compressive Strength Test LL = Liquid Limit PL = Plastic Limit PI = Plasticity Index MR = Moisture Ratio MC = Moisture Content RSD = Rock Mass Rating R1 = Rock Mass Rating R2 = Rock Mass Rating R3 = Rock Mass Rating R4 = Rock Mass Rating R5 = Rock Mass Rating R6 = Rock Mass Rating R7 = Rock Mass Rating R8 = Rock Mass Rating R9 = Rock Mass Rating R10 = Rock Mass Rating R11 = Rock Mass Rating R12 = Rock Mass Rating R13 = Rock Mass Rating R14 = Rock Mass Rating R15 = Rock Mass Rating R16 = Rock Mass Rating R17 = Rock Mass Rating R18 = Rock Mass Rating R19 = Rock Mass Rating R20 = Rock Mass Rating R21 = Rock Mass Rating R22 = Rock Mass Rating R23 = Rock Mass Rating R24 = Rock Mass Rating R25 = Rock Mass Rating R26 = Rock Mass Rating R27 = Rock Mass Rating R28 = Rock Mass Rating R29 = Rock Mass Rating R30 = Rock Mass Rating R31 = Rock Mass Rating R32 = Rock Mass Rating R33 = Rock Mass Rating R34 = Rock Mass Rating R35 = Rock Mass Rating R36 = Rock Mass Rating R37 = Rock Mass Rating R38 = Rock Mass Rating R39 = Rock Mass Rating R40 = Rock Mass Rating R41 = Rock Mass Rating R42 = Rock Mass Rating R43 = Rock Mass Rating R44 = Rock Mass Rating R45 = Rock Mass Rating R46 = Rock Mass Rating R47 = Rock Mass Rating R48 = Rock Mass Rating R49 = Rock Mass Rating R50 = Rock Mass Rating R51 = Rock Mass Rating R52 = Rock Mass Rating R53 = Rock Mass Rating R54 = Rock Mass Rating R55 = Rock Mass Rating R56 = Rock Mass Rating R57 = Rock Mass Rating R58 = Rock Mass Rating R59 = Rock Mass Rating R60 = Rock Mass Rating R61 = Rock Mass Rating R62 = Rock Mass Rating R63 = Rock Mass Rating R64 = Rock Mass Rating R65 = Rock Mass Rating R66 = Rock Mass Rating R67 = Rock Mass Rating R68 = Rock Mass Rating R69 = Rock Mass Rating R70 = Rock Mass Rating R71 = Rock Mass Rating R72 = Rock Mass Rating R73 = Rock Mass Rating R74 = Rock Mass Rating R75 = Rock Mass Rating R76 = Rock Mass Rating R77 = Rock Mass Rating R78 = Rock Mass Rating R79 = Rock Mass Rating R80 = Rock Mass Rating R81 = Rock Mass Rating R82 = Rock Mass Rating R83 = Rock Mass Rating R84 = Rock Mass Rating R85 = Rock Mass Rating R86 = Rock Mass Rating R87 = Rock Mass Rating R88 = Rock Mass Rating R89 = Rock Mass Rating R90 = Rock Mass Rating R91 = Rock Mass Rating R92 = Rock Mass Rating R93 = Rock Mass Rating R94 = Rock Mass Rating R95 = Rock Mass Rating R96 = Rock Mass Rating R97 = Rock Mass Rating R98 = Rock Mass Rating R99 = Rock Mass Rating R100 = Rock Mass Rating													
Sample Information													
Depth (ft.)		Sample No.		Pen./Rec. (in)		Sample Depth (ft.)		Blow (6 in. in. Strength) or RSD (%)		Uncorrected		Corrected	
4		10		24/24		0.00 - 2.00		2/2/3/3		5		6	
5		20/AB		24/24		4.00 - 6.00		2/5/13/10		18		23	
10		R1		60/60		9.30 - 14.30		RSD = 80%					
Visual Description and Remarks													
Black-orange, dry, loose, coarse SAND trace of brick fragments (upper 12-inches), grading to dark brown, damp, medium SAND, some silt, (F111).													
(20/AB) 4.0-5.2' bgs. Yellowish-brown, moist, very stiff, SILT, some clay, trace fine sand, trace fine gravel, layered, nonplastic, (overconsolidated), weathered (Vassalboro Formation).													
(20/AB) 5.2-6.0' bgs. Reddish-brown, medium dense, weathered angular rock fragments, fine to medium gravel in a matrix of moist, very stiff, silt, medium to coarse sand, stained, weathered, (weathered glacial till).													
PP1 = 2500 paf PP2 = 2500 paf D18 blow 40' 0.8" Observed Ahead to 9.3' bgs.													
Top of Bedrock at Elev. 145.2'. R1 Bedrock Gray-green, fine-grained, calcareous metasedimentary GREENSCHIST, moderately hard, slight weathering, rust staining and some wear, steeply dipping, very close intimate bedding, (Vassalboro Formation), Rock Mass Quality: Good.													
R1 Core Times (min/sec): 6.3-10.3' (1510) 10.3-11.3' (6145) 11.3-12.3' (5100) 12.3-13.3' (1345) 13.3-14.3' (1200) 100% Recovery													
Bottom of Exploration at 14.30 feet below ground surface.													
Stratification lines represent approximate boundaries between soil types; transitions may be gradual. * Water level readings have been made at times and under conditions stated. Groundwater fluctuations may occur due to conditions other than those present at the time measurements were made.													
Page 1 of 1 Boring No.: BB-CRR-101													

Maine Department of Transportation										Boring No.: BB-CRR-102	
Soil/Rock Exploration Log										Project: MCR Crossing Bridge #2976	
US CUSTOMARY UNITS										Carrying Routes 2/100 over Maine	
										Location: Carmel, Maine	
										PIN: 15622-00	
Driller:		MainDOT		Elevation (ft.):		154.5		Auger ID/OD:		5" Solid Stem	
Operator:		E. Giguere/C. Giles		Datum:		NAVD 88		Sampler:		Standard Split Spoon	
Logged By:		L. Krusinski		Rig Type:		CME 45C		Hammer Wt./Fall:		140#/30"	
Date Start/Finish:		6/9/08-10/4/08		Drilling Method:		Cased Wash Boring		Core Barrel:		NO-2"	
Boring Location:		13486.1, 5.7 Rt.		Casing ID/OD:		HW		Water Level:		3.0' bgs.	
Hammer Efficiency Factor: 0.77				Hammer Type:		Automatic (S) Hydraulic () Rope & Cathead ()					
Definitions											
S = Split Spoon Sample				R = Rock Core Sample				L = Lith Test (Lab Test Shear Strength Test)			
U = Unconfined Split Spoon Sample Strength				SA = Split Spoon Sample				WC = Water Content, percent			
H = Horizontal Split Spoon Sample				HA = Horizontal Sample				LL = Liquid Limit			
B = Borehole Sample				BQ = Borehole Sample				UC = Unconfined Compressive Strength Test			
L = Laboratory Test (Lab Test Shear Strength)				LW = Laboratory Test (Lab Test Shear Strength)				PL = Plastic Limit			
P = Pocket Penetration Test				PWT = Weight of Test Specimen				PI = Plasticity Index			
M = Moisture Ratio				MWT = Moisture of Test Specimen				C = Coefficient of Consolidation			
MWT = Moisture of Test Specimen				MWT = Moisture of Test Specimen				C = Coefficient of Consolidation			
Sample Information											
Depth (ft.)	Sample No.	Pen./Rec. (in)	Sample Depth (ft.)	Blow (6 in. in. Strength) or RSD (%)	Uncorrected	Corrected	Grain Size	Visual Description and Remarks	Laboratory Testing Results/ASHTO and Unified Class		
4	10	24/24	0.00 - 2.00	2/4/4/8	8	10	SSA	Block, damp, loose, silty, fine SAND, little medium to coarse sand, trace fine gravel, trace cinders, slag, organics, (F111).			
5	20	24/24	2.00 - 4.00	3/4/9/14	13	17		Light brown, mottled, medium dense, SAND, some silt, some weathered slate fragments and fine gravel, little clay, blocky (weathered fine-grained glacial till).	GW20013 A-1-b, SM WC=15.4%		
10	30/AB	24/22	4.00 - 6.00	6/30/40/27	10	90	42	(20/AB) 4.0-4.6' bgs. Yellowish-brown, wet, hard, fine angular gravelly SILT, some clay, some staining, little coarse angular sand, (weathered fine-grained glacial till).			
15	R1	60/60	6.40 - 11.60	RSD = 94%			NO-2	Top of Bedrock at Elev. 147.1'. R1 Bedrock Gray-green, fine-grained, metasedimentary, calcareous GREENSCHIST, moderately hard, slight weathering, (irregular or foliation, oxidized staining on breaks, no infilling, (Vassalboro Formation), Rock Mass Quality: Excellent.			
20	R2	60/60	11.60 - 16.60	RSD = 62%			NO-2	R1 Core Times (min/sec): 6.3-10.3' (1510) 10.3-11.3' (6145) 11.3-12.3' (5100) 12.3-13.3' (1345) 13.3-14.3' (1200) 100% Recovery			
25								Bottom of Exploration at 16.60 feet below ground surface.			
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Maine Department of Transportation										Boring No.: BB-CRR-103	
Soil/Rock Exploration Log											
US CUSTOMARY UNITS											
Driller:		MainDOT		Elevation (ft.):		154.5		Auger ID/OD:		5" Solid Stem	
Operator:		E. Giguere/C. Giles		Date:		NAVD 88		Sampler:		Standard Split Spoon	
Logged By:		L. Krusinski		Rig Type:		CME 45C		Hammer Wt./Fall:		140#/30"	
Date Start/Finish:		6/9/08-12/00-16/00		Drilling Method:		Cased Wash Boring		Core Barrel:		NO-2"	
Boring Location:		1451.5, 5.4 Lt.		Casing ID/OD:		HW		Water Level:		4.0' bgs.	
Hammer Efficiency Factor: 0.77				Hammer Type:		Automatic (S) Hydraulic () Rope & Cathead ()					
Definitions: S = Solid Stem Sample SS = Split Spoon Sample H = Hollow Stem Auger HWA = Hollow											

Maine Department of Transportation										Boring No.: BB-CRR-201	
Soil/Rock Exploration Log										Project: MCR Crossing Bridge #2976	
US CUSTOMARY UNITS										Location: Carmel, Maine	
Driller: MainDOT				Elevation (ft.): 154.5		Auger ID/OD: 5" Solid Stem		PIN: 15622-00			
Operator: E. Giguere/Wright				Datum: NAVD 88		Sampler: Standard Split Spoon					
Logged By: B. Wilder				Rig Type: CME 45C		Hammer Wt./Fall: 140#/30"					
Date Start/Finish: 8/27/09-07/30-10/00				Drilling Method: Cased Wash Boring		Core Barrel: NO-2"					
Boring Location: 13495.30-0 ft.				Casing ID/OD: HW		Water Level: 3.3' bgs.					
Hammer Efficiency Factor: 0.84				Hammer Type: Automatic (S) Hydraulic () Rope & Cathead ()							
Definitions											
S = Split Stem Sample R = Rock Core Sample T = Test Tube Shear Strength Test W = Water Content, percent											
SS = Split Stem Super SA = Split Stem Super UC = Unconfined Compressive Strength Test LL = Liquid Limit											
SSA = Split Stem Super SW = Split Stem Super PL = Plastic Limit											
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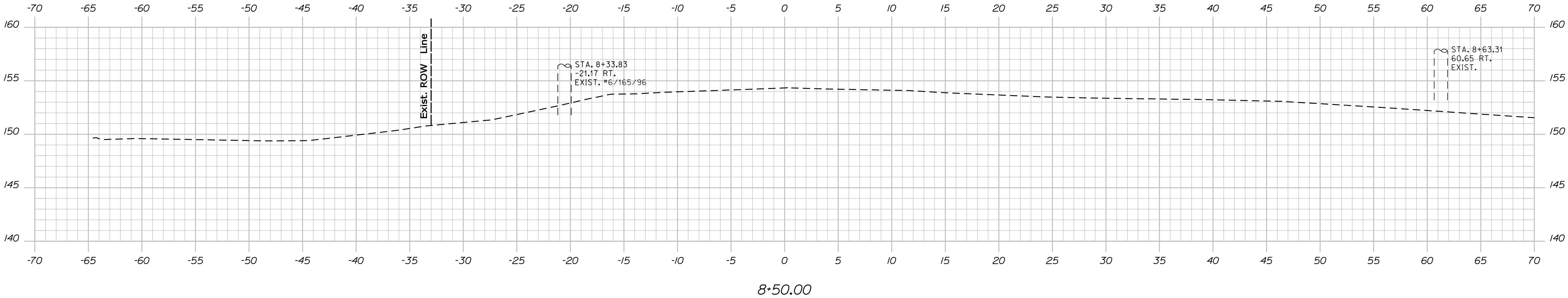
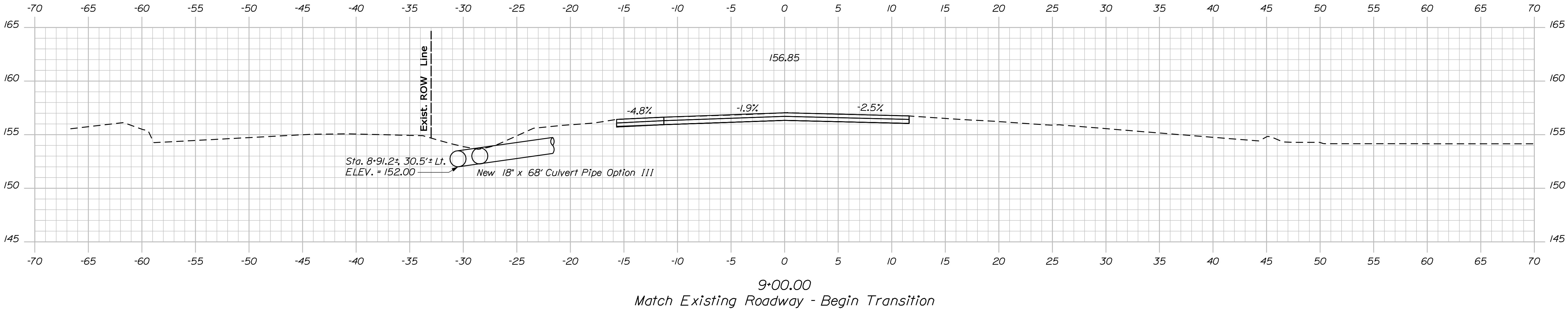
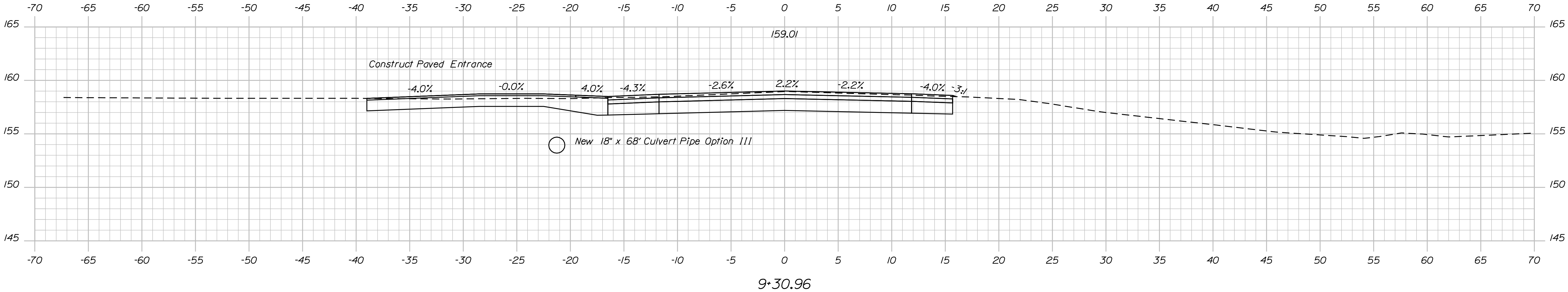


Date:8/31/2010

Username: richard.nimon

Division: BRIDGE

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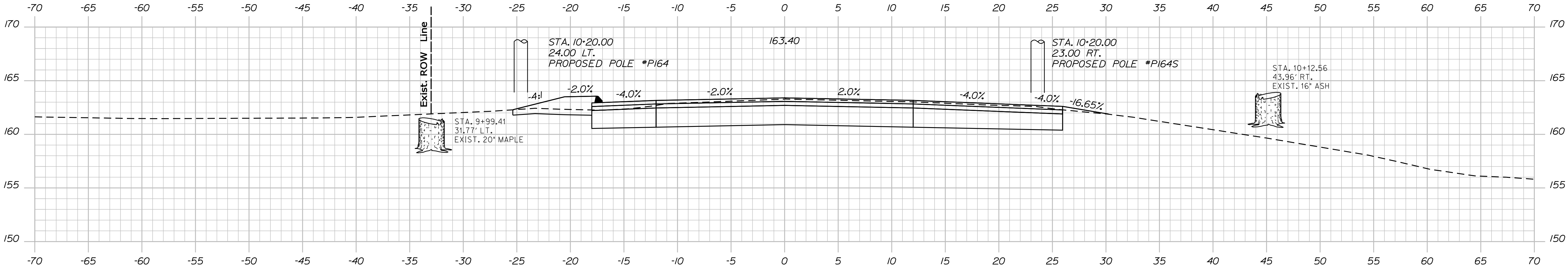
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					MAINLINE CROSS SECTIONS					DESIGN-DETAILED		M. WIGHT	SIGNATURE		
										CHECKED-REVIEWED					
										DESIGN2-DETAILED2					
					DESIGN3-DETAILED3					P.E. NUMBER		015622.00			
					REVISIONS 1										
					REVISIONS 2										
					REVISIONS 3										
					REVISIONS 4					DATE		BRIDGE NO. 2876 PIN 15622.00 BRIDGE PLANS			
					FIELD CHANGES										

Date:8/31/2010

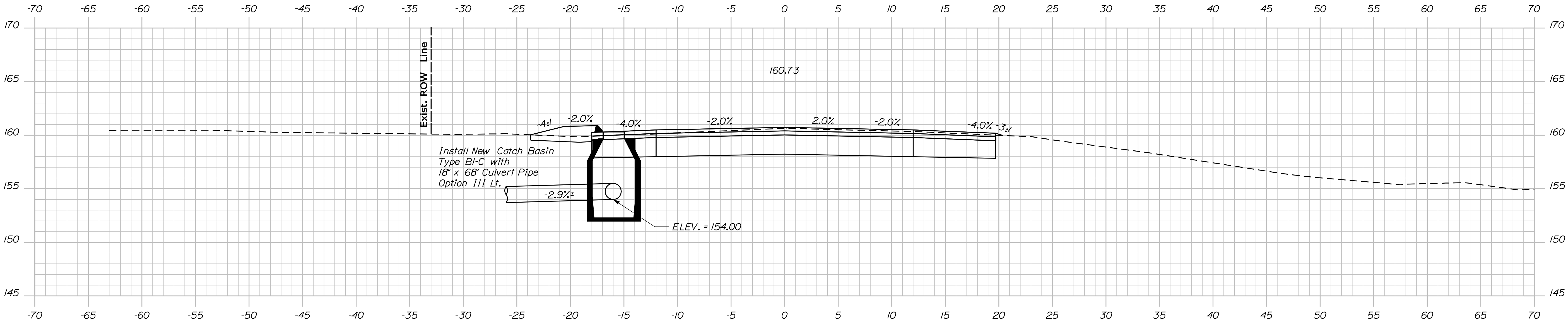
Username: richard.nimon

Division: BRIDGE

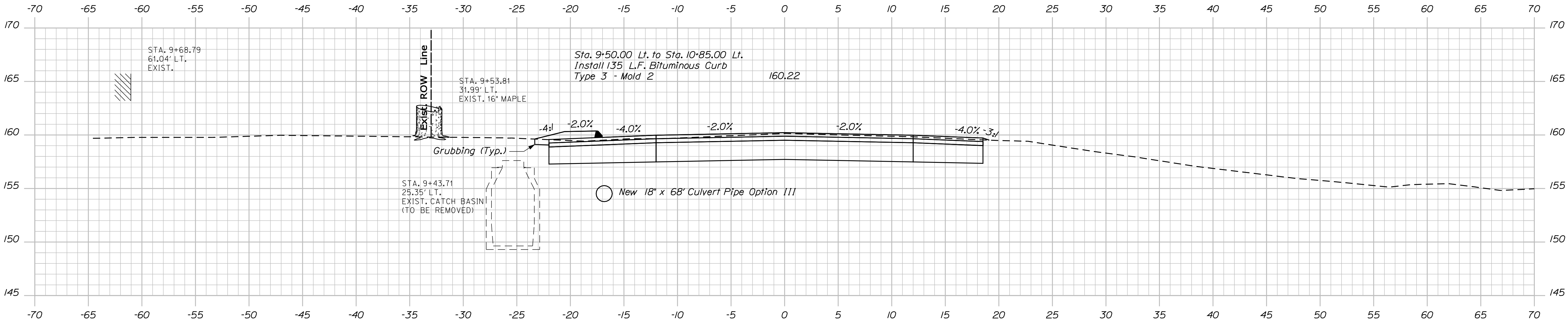
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10+00.00



9+58.00



9+50.00

End Transition - Begin Project

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

015622.00

PIN 15622.00
BRIDGE NO. 2876

BRIDGE PLANS

PROJECT INFORMATION

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL
PENOBSCOT COUNTY

DESIGN-DETAILED
CHECKED-REVIEWED
DESIGN-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

BY
R.J. NIMON

DATE
OCT 2009

SIGNATURE

P.E. NUMBER

DATE

SHEET NUMBER

12

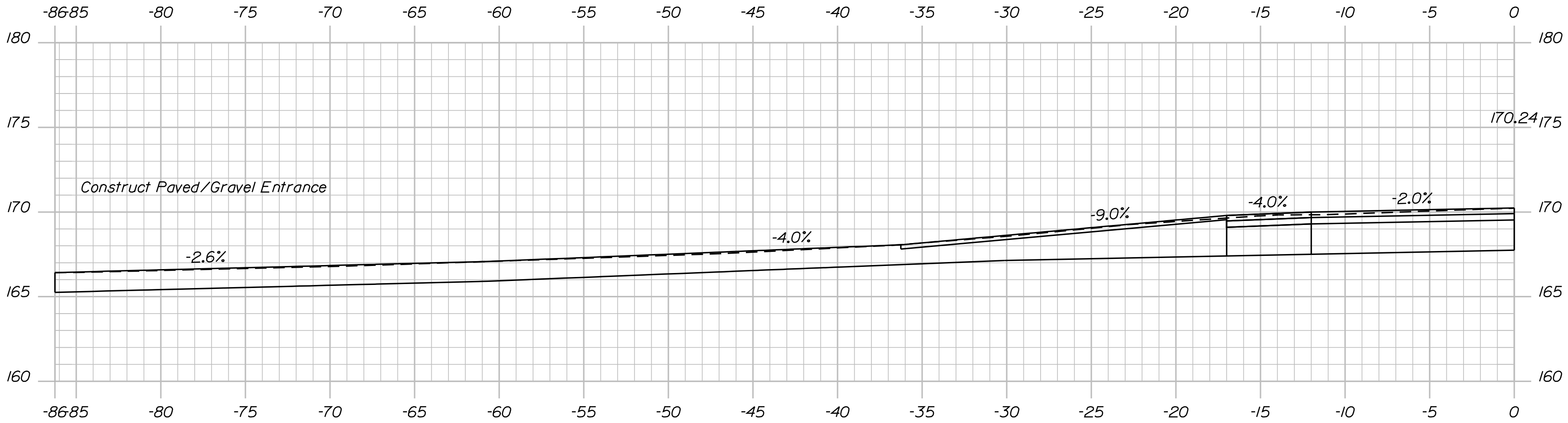
OF 67

Date:8/31/2010

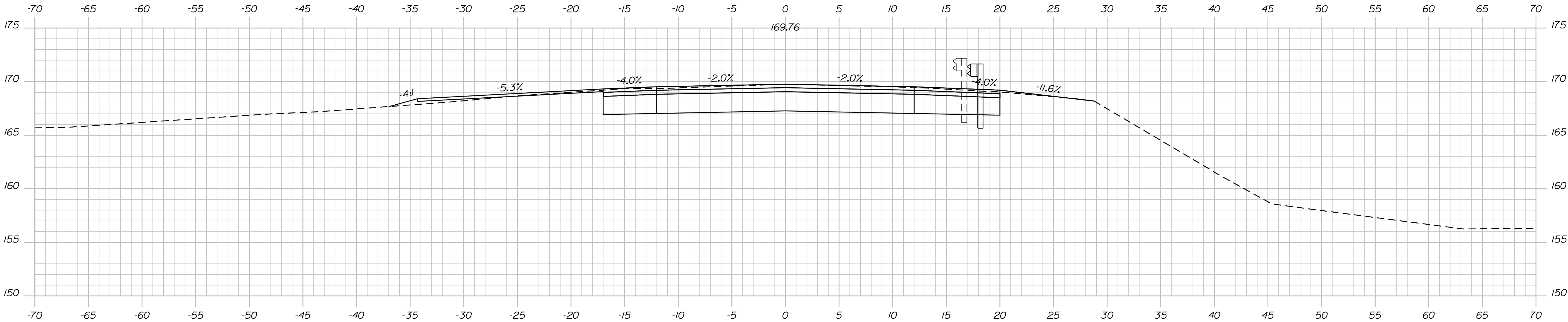
Username: richard.nimon

Division: BRIDGE

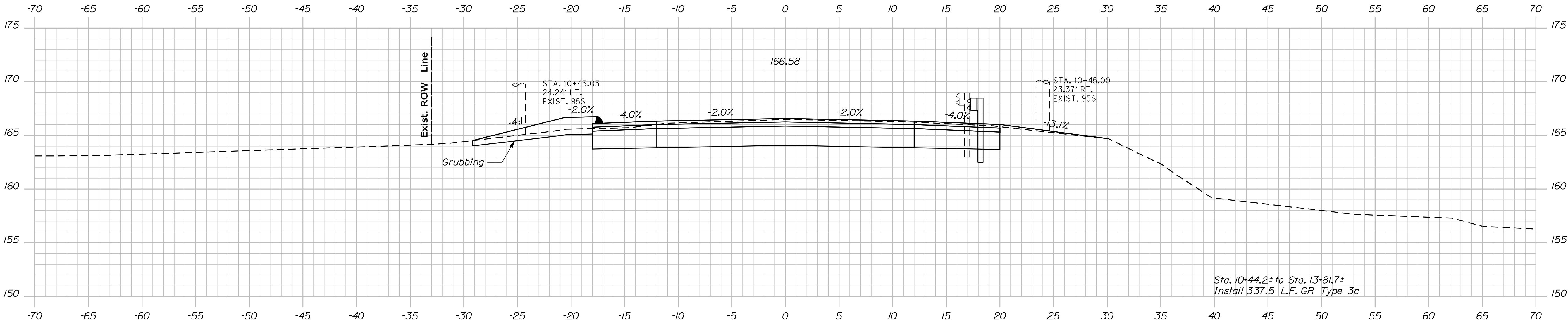
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11+07.50



11+00.00

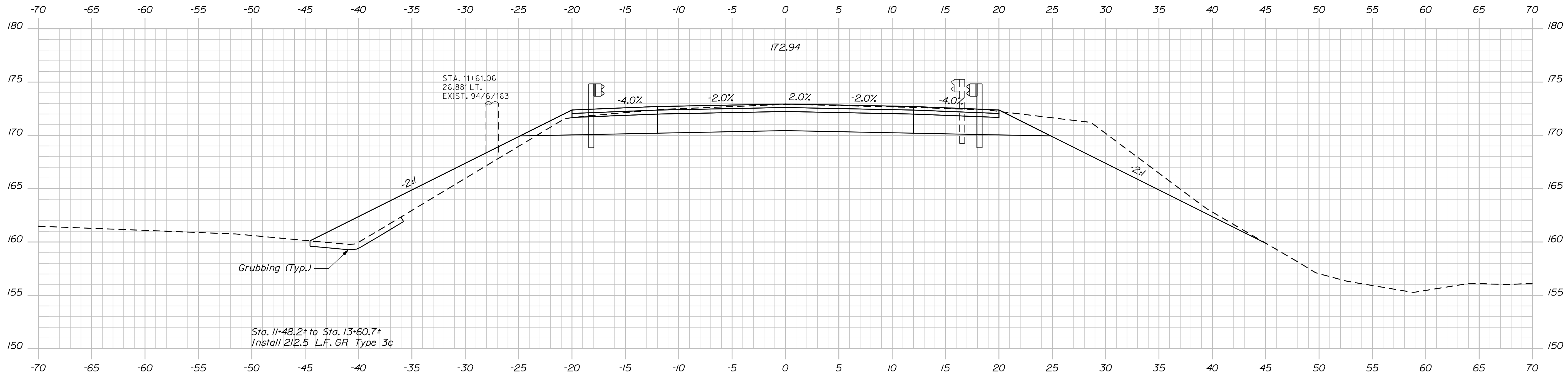


10+50.00

Sta. 10+44.2+ to Sta. 13+81.7+
Install 337.5 L.F. GR Type 3c
Sta. 10+07.1+ to Sta. 10+44.2+
Install GR 350 Fared Terminal

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	015622.00		PIN 15622.00		BRIDGE NO. 2876	BRIDGE PLANS
	SIGNATURE		P.E. NUMBER		DATE	
	BY R.J. NIMON		DATE OCT 2009			
MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY		SHEET NUMBER 13 OF 67				

Filename: ... \msta\014_XSECT_11+50_004.dgn



Sta. 11+48.2 to Sta. 13+60.7
Install 2/2.5 L.F. GR Type 3c

50 -45 -40 -35

Sta. 11+29.2, 30.7 to Sta. 11+48.2
Install 25 L.F. GR Type 3c @ 20' Radius
with a Terminal End

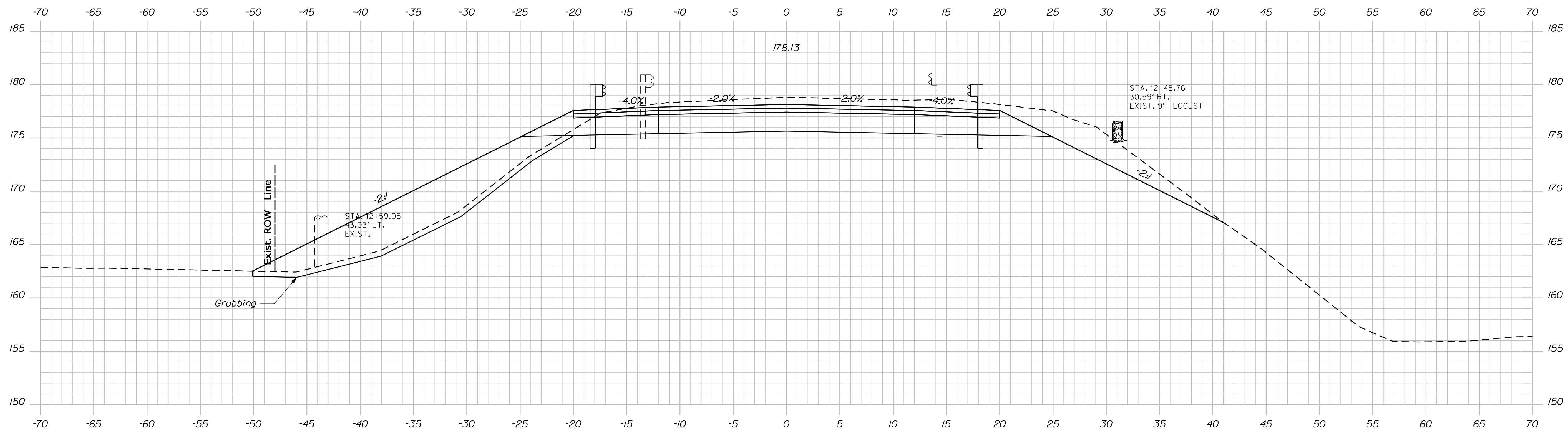
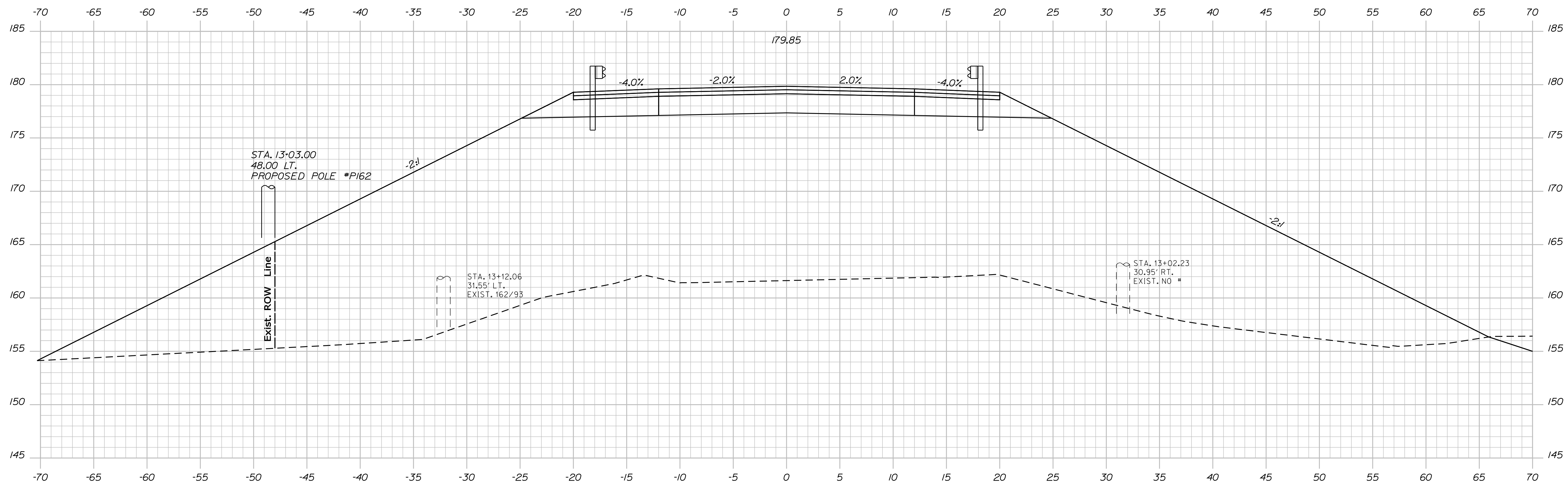
MCRR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL PENOBSCOT COUNTY
MAINLINE CROSS SECTIONS

SHEET NUMBER

14

OF 67

Sta. 11+50.00 to Sta. 12+00.00



Date: 8/31/2010

Username: richard.nimon

Division: BRIDGE

Filename: ... \msta\015_XSECT_12+50_005.dgn

STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

015622.00

622

BRIDGE NO. 2976

BRIDGE PLANS

SIGNATURE

P.E. NUMBER

DATE _____

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PROJ. MANAGER

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD

PENOBSCOT COUNTY

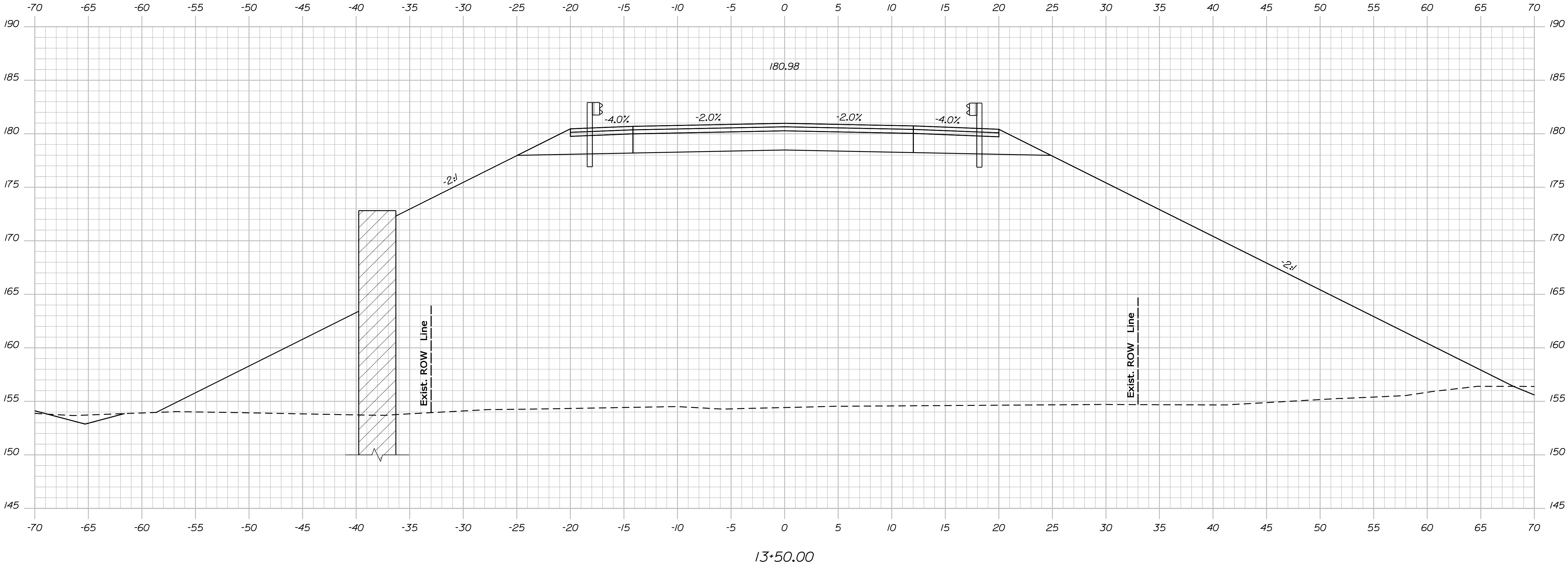
MAINLINE CROSS SECTIONS

SHEET NUMBER

15

OF 67

Sta. 12+50.00 to Sta. 13+00.00



BY	STATE OF MAINE	
	DEPARTMENT OF TRANSPORTATION	
	015622.00	
BRIDGE NO. 2976	PIN	15622.00
	BRIDGE PLANS	

PROJ. MANAGER	D. Anderson		DATE
DESIGN-DETAILED	M. WIGHT	R.J. NIXON	OCT 2009
CHECKED-REVIEWED			
DESIGN-DETAILED			
DESIGNS DET AILED			
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REVISIONS 1			
REVISIONS 2			
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REVISIONS 4			
FIELD CHANGES			

MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL	PENOBSCOT COUNTY	
	MAINLINE CROSS SECTIONS	

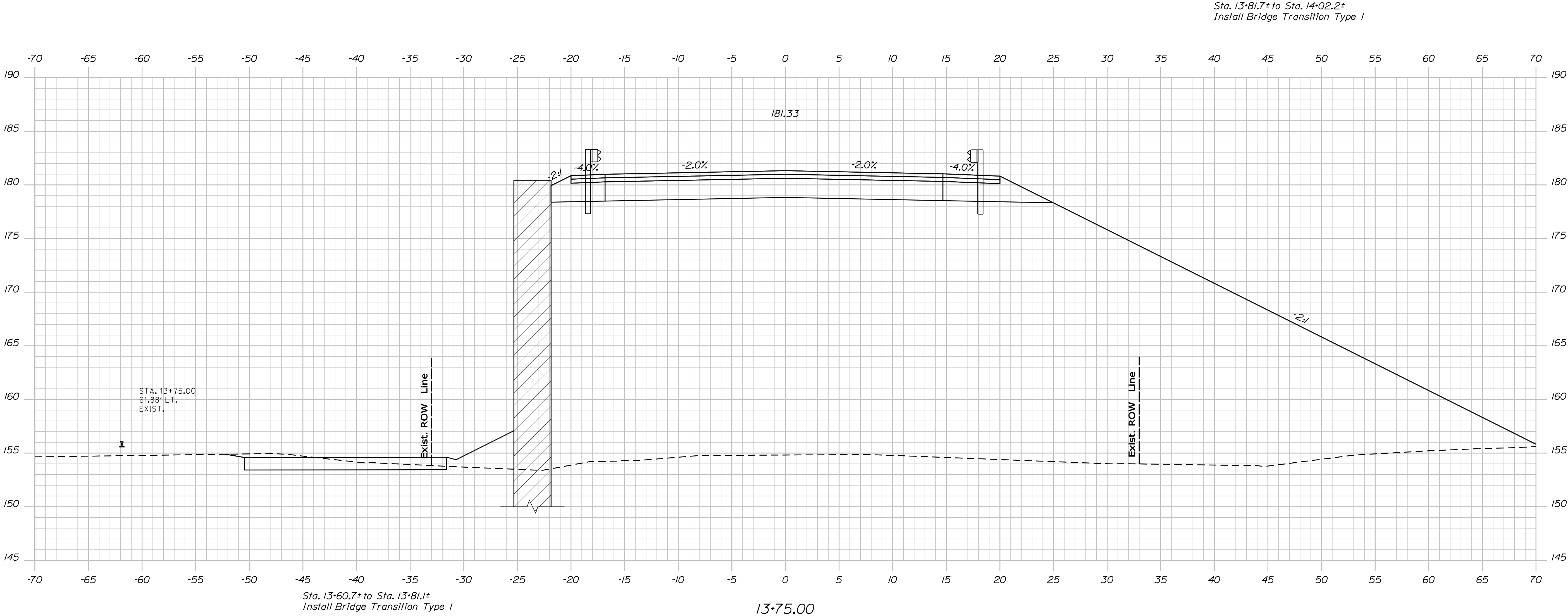
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16	
OF 67	

Date:8/31/2010

Username: richard.nimon

Division: BRIDGE

Filename: ... \msta\017_XSECT_13+75_007.dgn



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	D. Anderson	BY	R.J. NIMON	DATE	OCT 2009
DESIGN-DETAILED	M. WIGHT	CHECKED-REVIEWED		SIGNATURE	
DESIGNS-DETAILED		DESIGNS-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 1		DATE	
REVISIONS 2		REVISIONS 2			
REVISIONS 3		REVISIONS 3			
REVISIONS 4		REVISIONS 4			
FIELD CHANGES					

MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
CARMEL	
PENOBSCOT COUNTY	
MAINLINE CROSS SECTIONS	

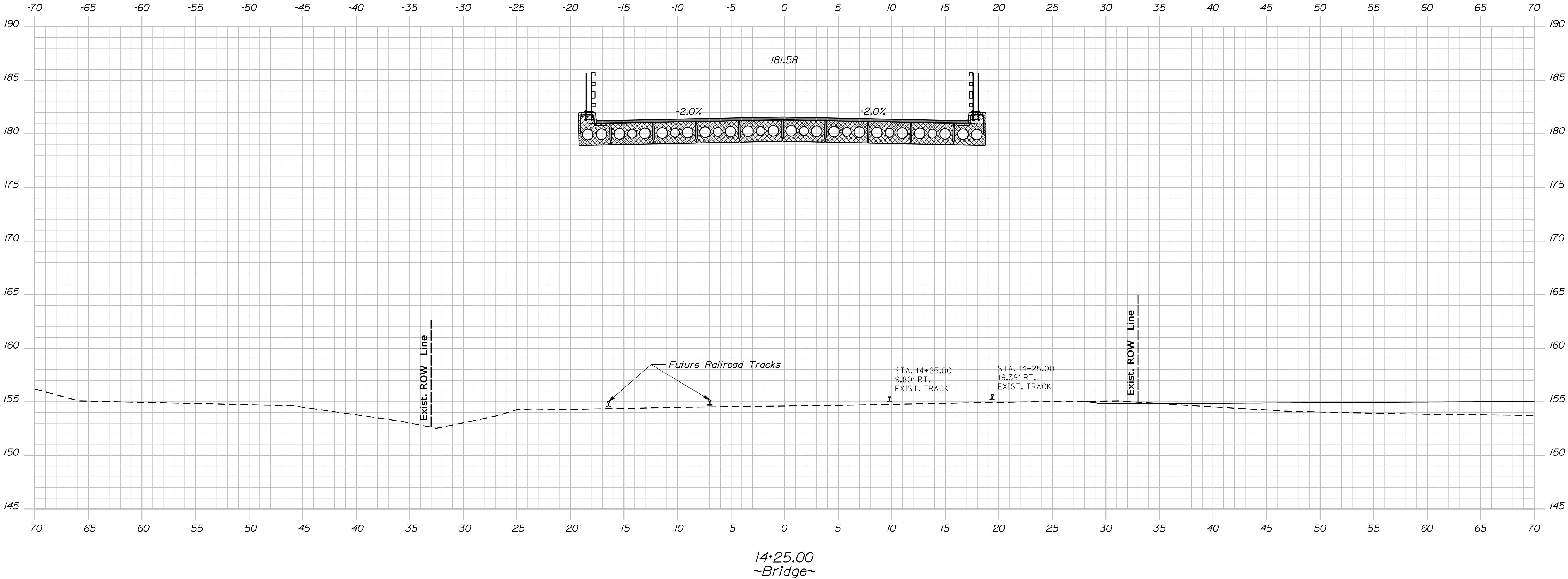
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OF 67

Date:8/31/2010

Username: richard.nimon

Division: BRIDGE

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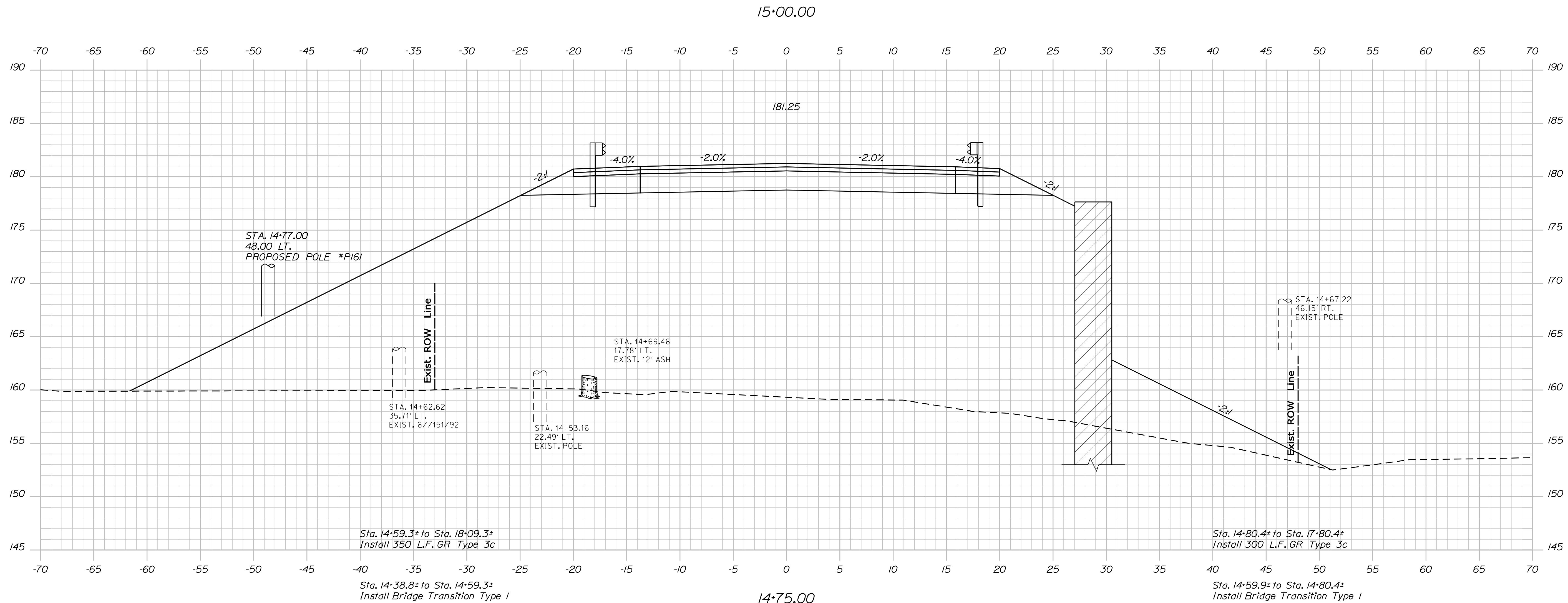
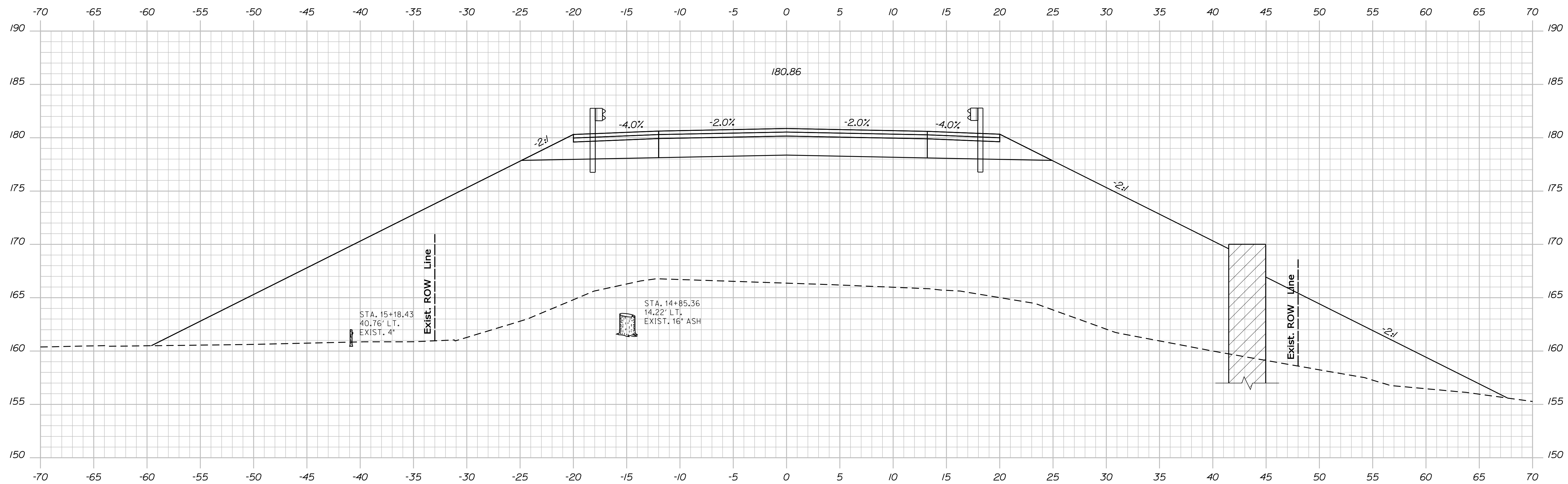


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
015622.00
BRIDGE NO. 2976
PIN 15622.00
BRIDGE PLANS

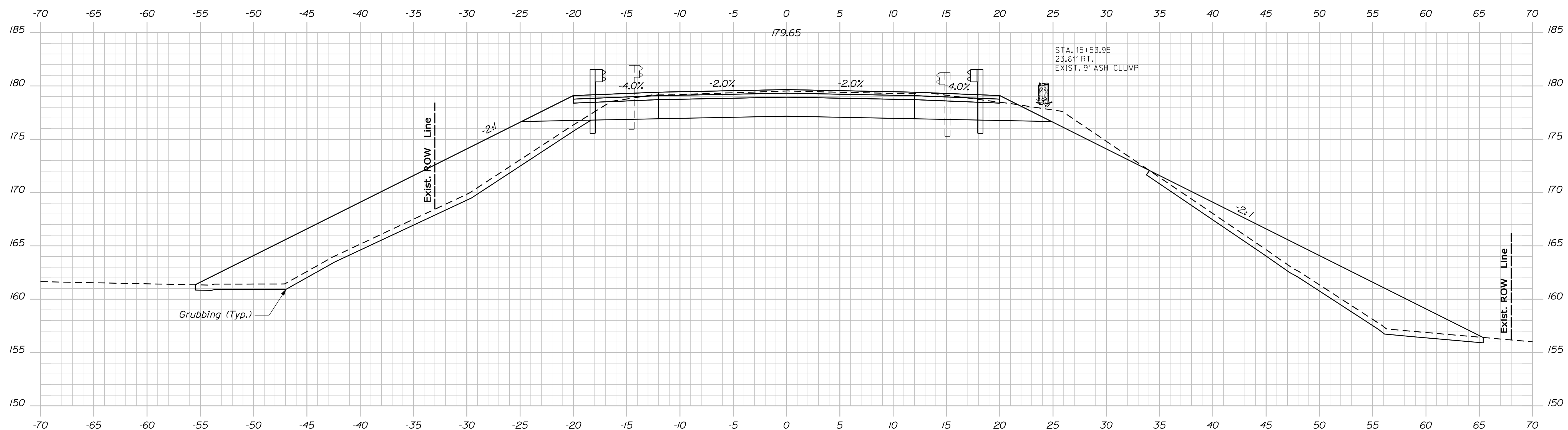
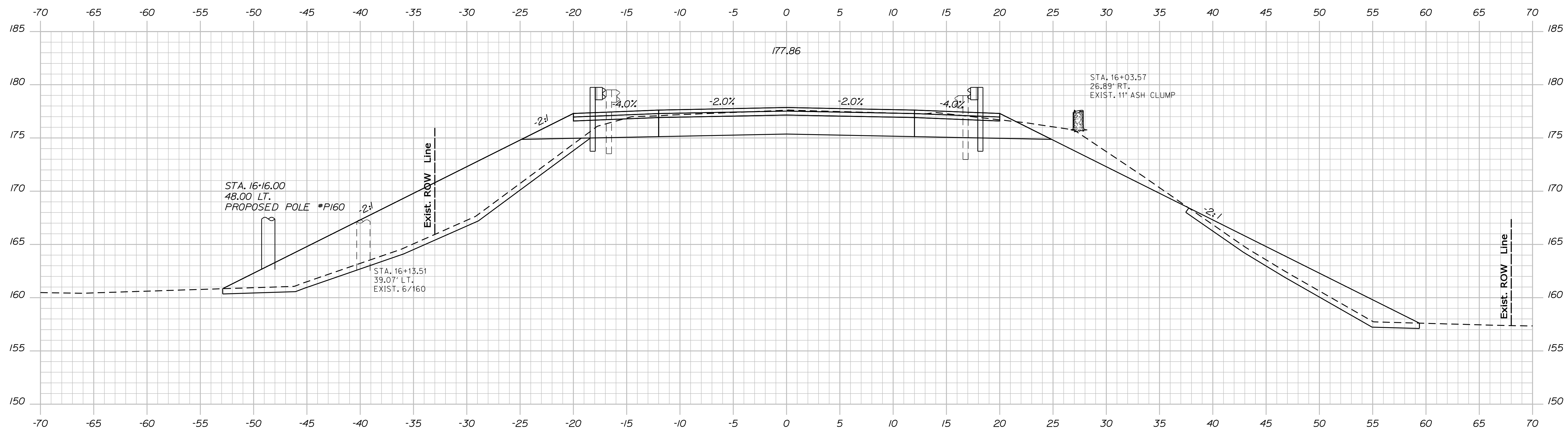
PROJ. MANAGER	D. Anderson	BY	R.J. NIMON	DATE	OCT 2009
DESIGN-DETAILED	M. WIGHT	CHECKED-REVIEWED		SIGNATURE	
DESIGN-DETAILED		DESIGN-DETAILED		P.E. NUMBER	
REVISIONS 1		REVISIONS 2		DATE	
REVISIONS 3		REVISIONS 4			
FIELD CHANGES					

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL
PENOBSCOT COUNTY
MAINLINE CROSS SECTIONS

SHEET NUMBER
18
OF 67



SHEET NUMBER <div style="font-size: 48pt; text-align: center;">19</div>	MCRR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY			PROJ. MANAGER D. Anderson DESIGN-DETAILED M. WIGHT CHECKED-REVIEWED R.J. NIMON DESIGN2-DETAILED2 DESIGN3-DETAILED3 REVISIONS 1 REVISIONS 2 REVISIONS 3 REVISIONS 4 FIELD CHANGES	BY DATE OCT 2009	STATE OF MAINE DEPARTMENT OF TRANSPORTATION 015622.00 PIN 15622.00 BRIDGE NO. 2976 BRIDGE PLANS
				SIGNATURE		
				P.E. NUMBER		
				DATE		



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
BRIDGE NO. 2076	PIN 15622.00
015622.00	
BRIDGE PLANS	

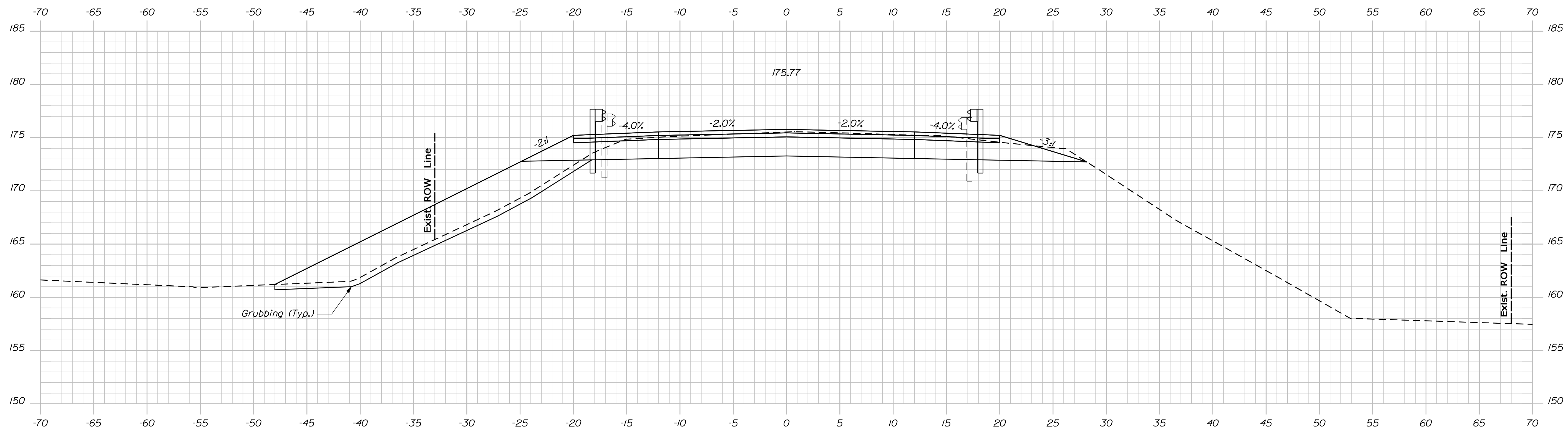
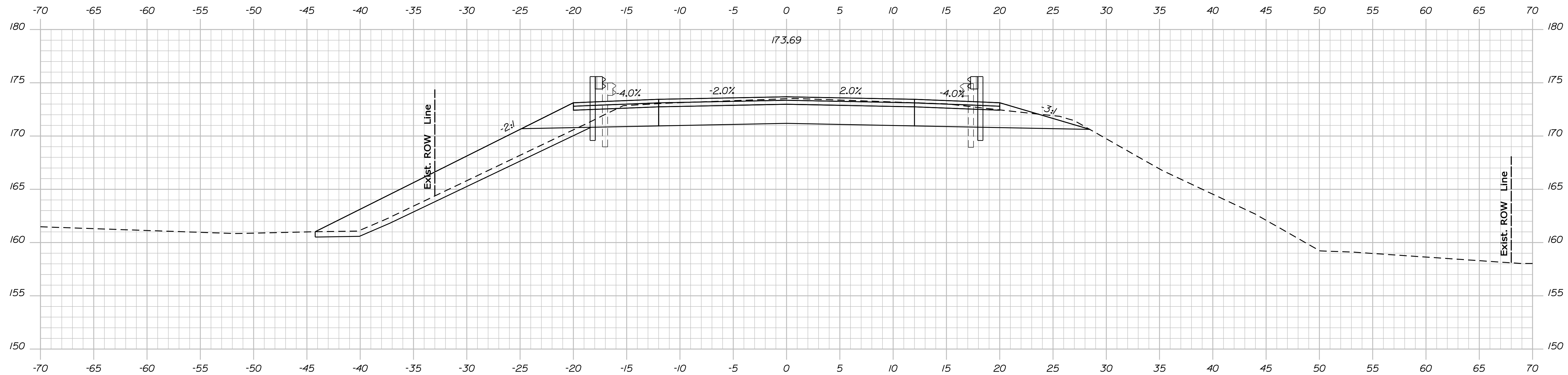
PROJ. MANAGER	D. Anderson	BY	DATE
DESIGN-DETAILED	M. WIGHT	R.J. NIMON	OCT 2009
CHECKED-REVIEWED			
DESIGN2-DETAILED2			
DESIGN3-DETAILED3			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SIGNATURE			
P.E. NUMBER			
DATE			

<p>MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY</p>	<p>MAINLINE CROSS SECTIONS</p>
--	--------------------------------

SHEET NUMBER

20

OF 67



Sta. 16+50.00 to Sta. 17+00.00

Date: 8/31/2010

Username: richard.nimon

Division: BRIDGE

Filename: ... \msta\021_XSECT_16*50_011.dgn

BRIDGE NO. 2976	PIN	BRIDGE PLANS
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015622.00		

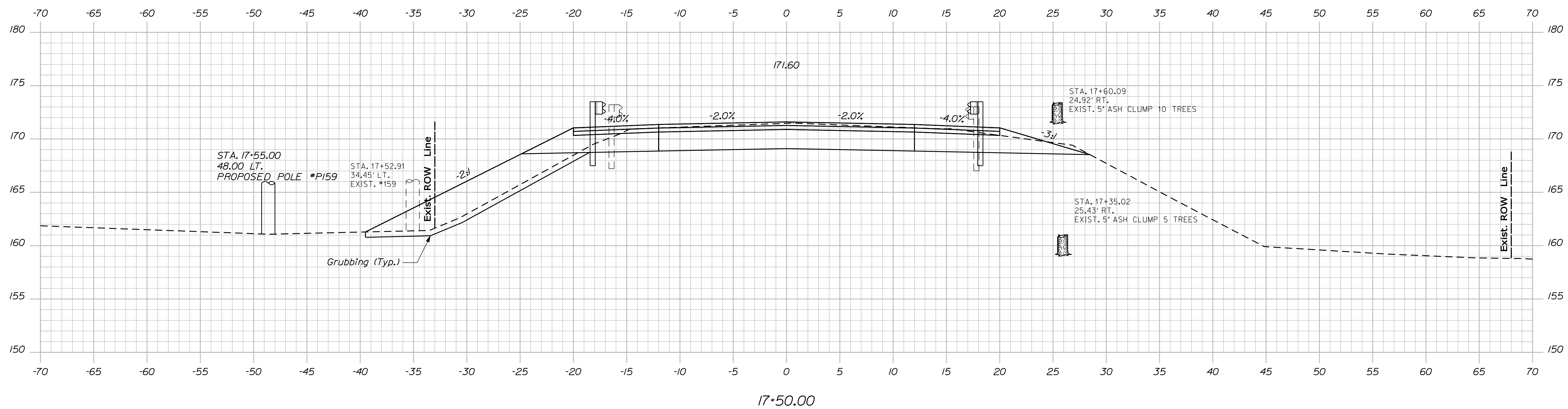
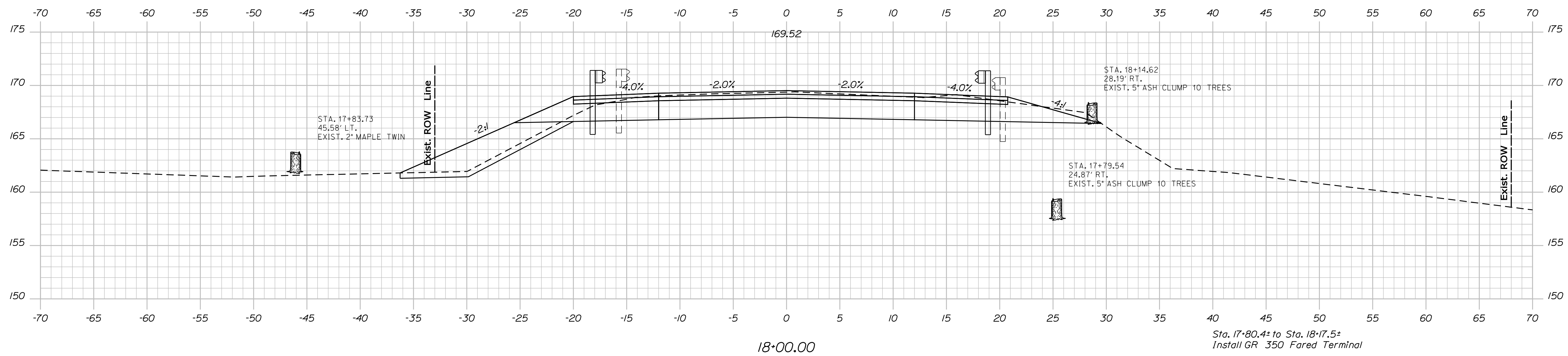
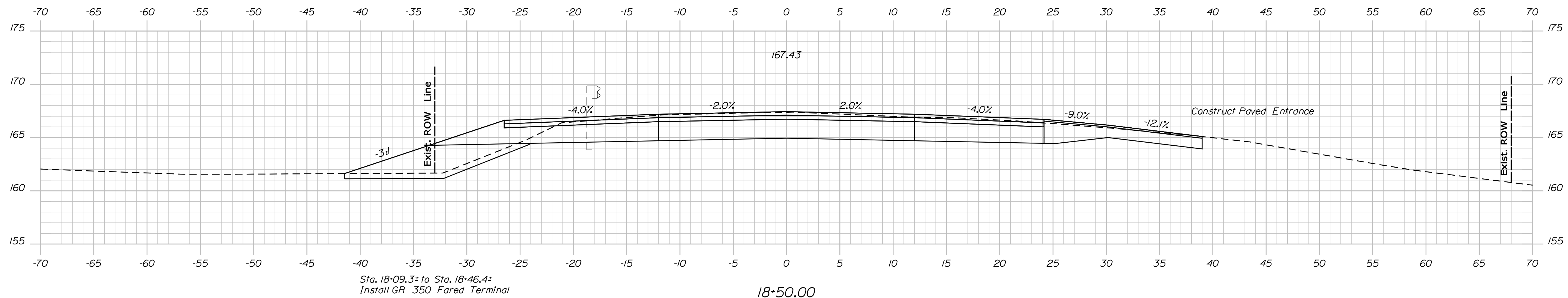
PROJ. MANAGER	D. Anderson	BY	DATE
DESIGN-DETAILED	M. WIGHT	R.J. MINION	OCT 2009
CHECKED-REVIEWED			
DESIGN-DETAILED02			
DESIGN-DETAILED03			
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			
SIGNATURE			
P.E. NUMBER			
DATE			

MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY
MAINLINE CROSS SECTIONS

SHEET NUMBER

21

OF 67



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	D. ANDERSON	BY	DATE
CHECKED/REVIEWED	M. WIGHT	R.J. NIXON	OCT 2009
SIGNATURE			
P.E. NUMBER			
DATE			

MCRR CROSSING BRIDGE
 MAINE CENTRAL RAILROAD
 CARMEL PENOBSCOT COUNTY

MAINLINE CROSS SECTIONS

SHEET NUMBER

22

OF 67

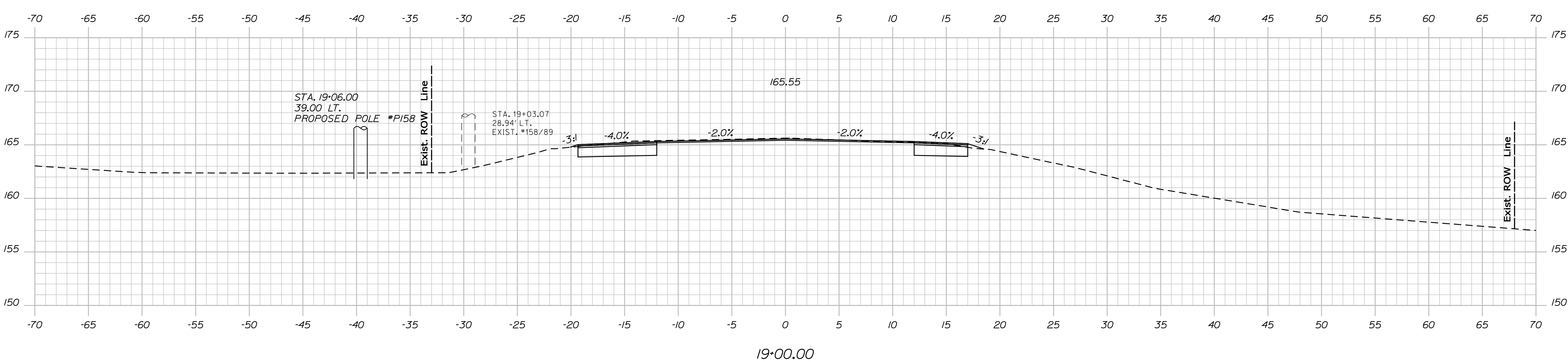
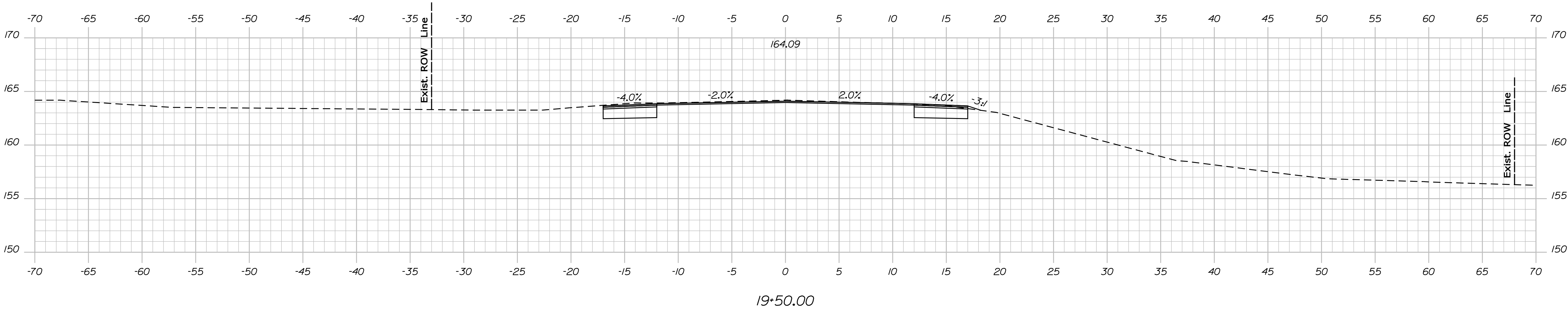
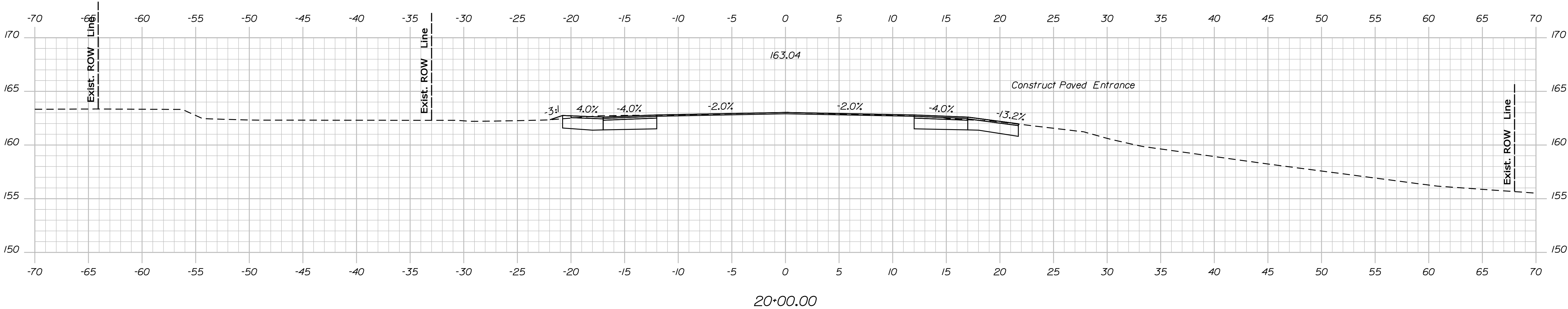
Sta. 17+50.00 to Sta. 18+50.00

Date:8/31/2010

Username: richard.nimon

Division: BRIDGE

Filename: ... \msta\023_XSECT_19-00_013.dgn



18+75.00
End Full Construction - Begin Mill & Fill

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2876	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	BY	DATE
D. Anderson	R.J. NIMON	OCT 2009
CHECKED-REVIEWED	SIGNATURE	
DESIGN-DETAILED	P.E. NUMBER	
DESIGNS DETAILLED	DATE	
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
CARMEL	
PENOBSCOT COUNTY	
MAINLINE CROSS SECTIONS	

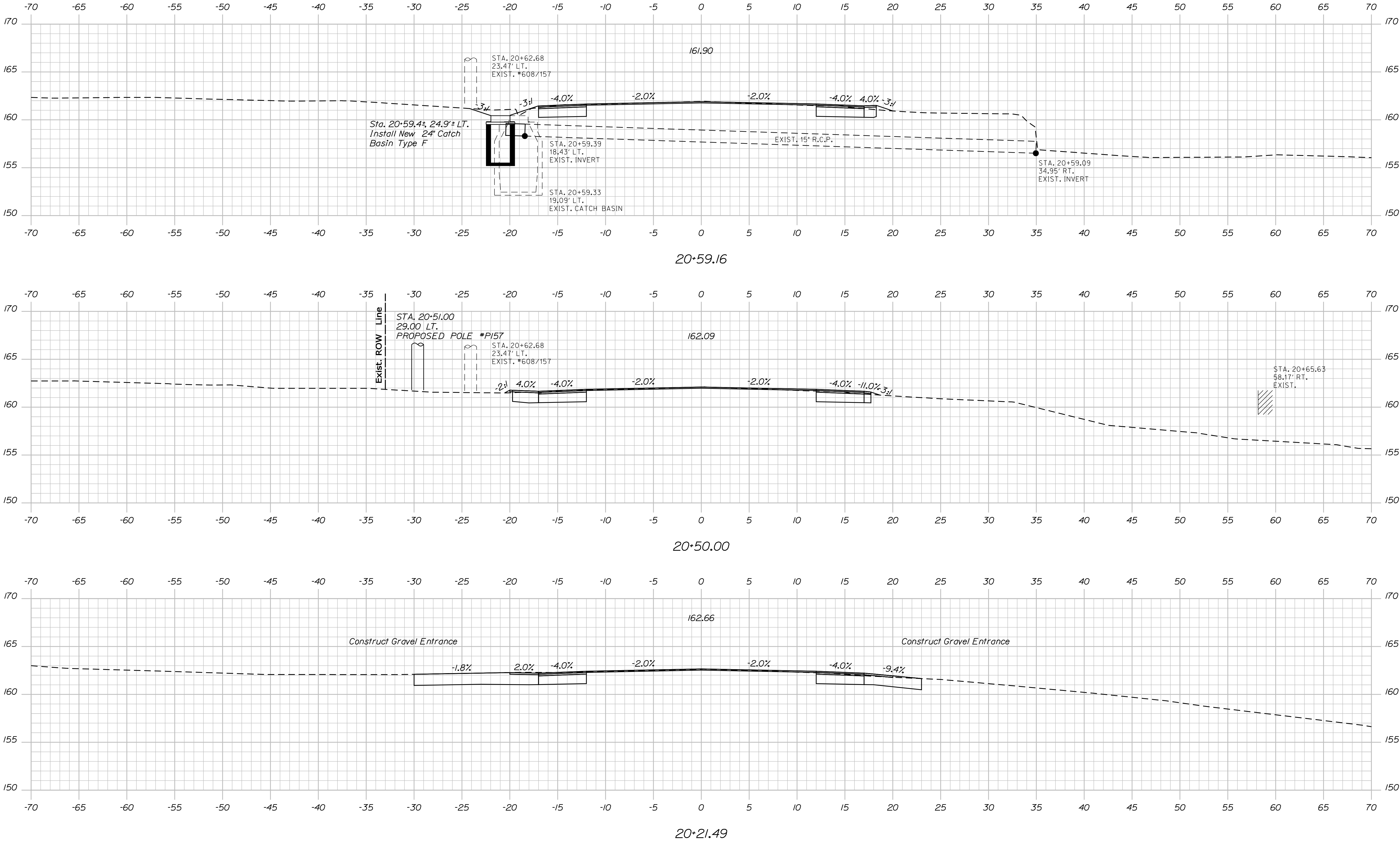
SHEET NUMBER
23
OF 67

Date:8/31/2010

Username: richard.nimon

Division: BRIDGE

Filename: ... \msta\024_XSECT_20+21.014.dgn



SHEET NUMBER		24		OF 67	
MCCR CROSSING BRIDGE		MAINE CENTRAL RAILROAD		PENOBSCOT COUNTY	
CARMEL		CROSS SECTIONS		FIELD CHANGES	
PROJ. MANAGER		BY		DATE	
DESIGNED-DETAILED		R.J. NIMON		OCT 2009	
CHECKED-REVIEWED				SIGNATURE	
DESIGNED-DETAILED				P.E. NUMBER	
DESIGNED-DETAILED				DATE	
REVISIONS 1					
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					
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BRIDGE NO. 2976		PIN		15622.00	
BRIDGE PLANS					

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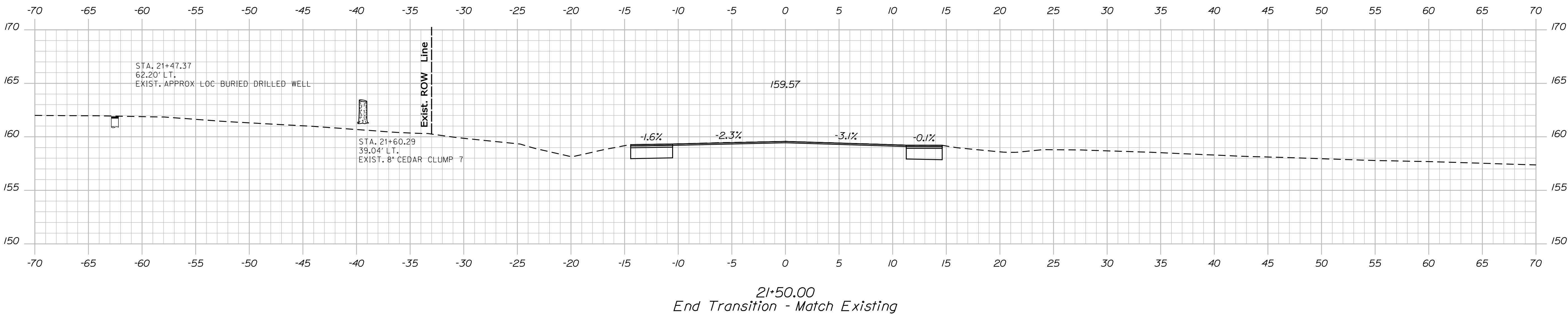
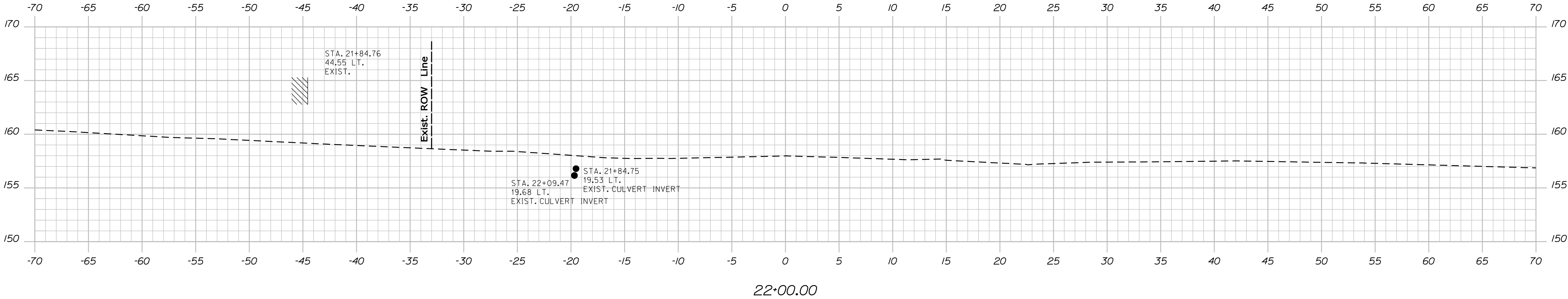
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Division: BRIDGE

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

015622.00

BRIDGE NO. 2876
PIN 15622.00

BRIDGE PLANS

PROJ. MANAGER
D. Anderson

CHECKED-REVIEWED
M. WIGHT

DESIGN-DETAILED
R.J. NIMON

REVISIONS 1

REVISIONS 2

REVISIONS 3

REVISIONS 4

FIELD CHANGES

DATE
OCT 2009

BY
R.J. NIMON

SIGNATURE

P.E. NUMBER

DATE

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL
PENOBSCOT COUNTY

MAINLINE CROSS SECTIONS

SHEET NUMBER

26

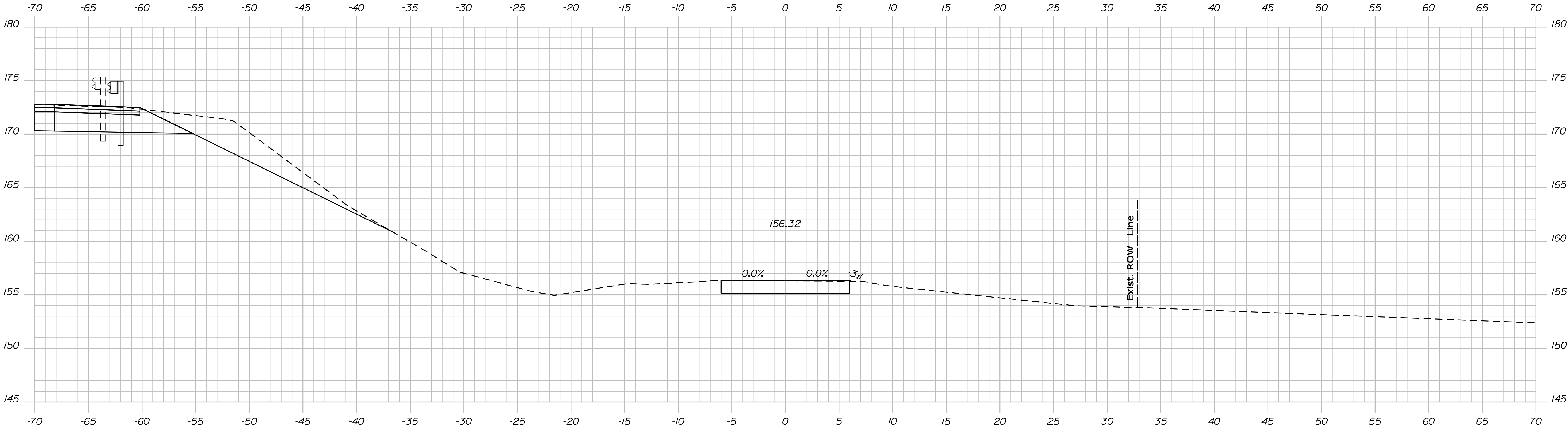
OF 67

Sta. 21+50.00 to Sta. 22+00.00

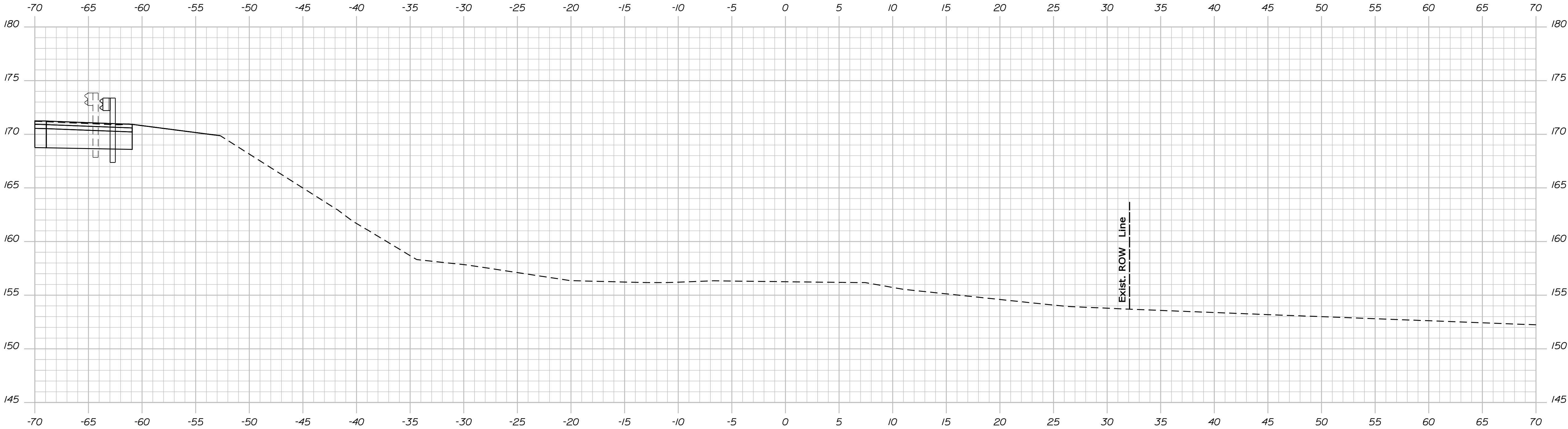
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Date:8/31/2010

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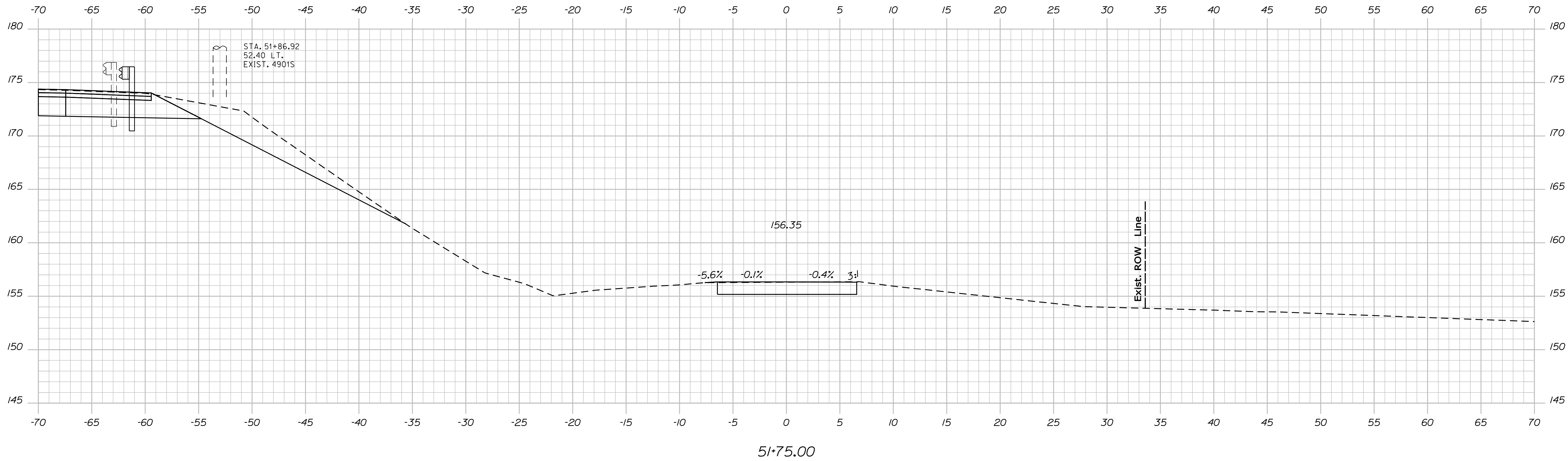


51+50.00
Match Existing - Begin Project



51+25.00

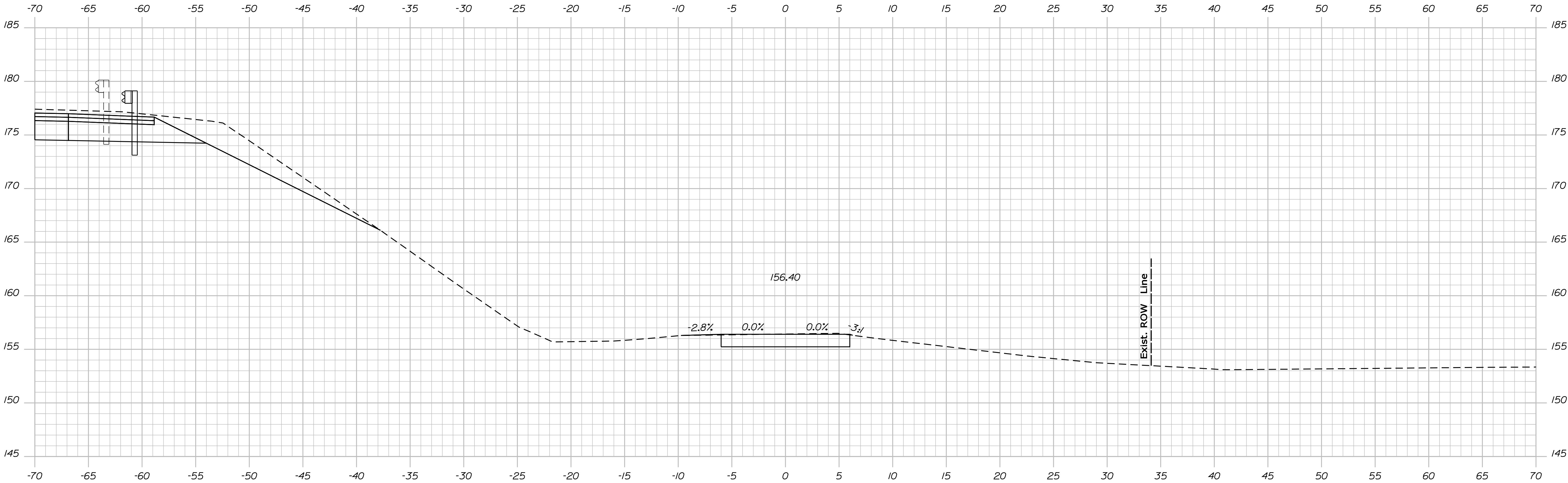
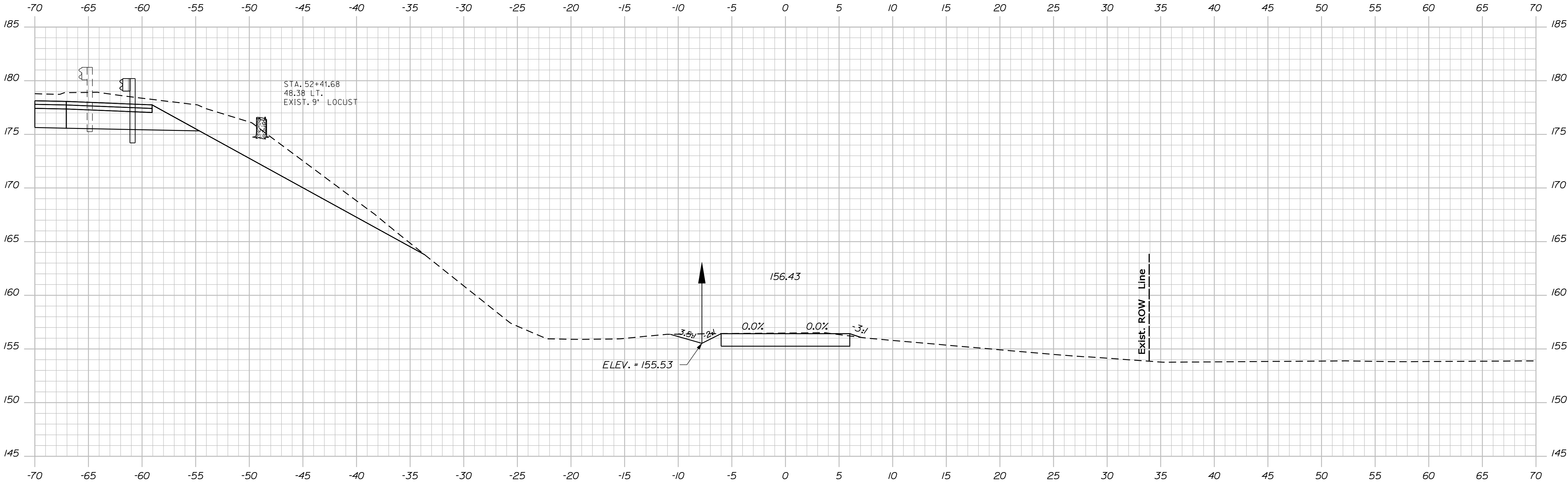
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	SIGNATURE		P.E. NUMBER		DATE
	BY R.J. NIMON		DATE OCT 2009		
MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY					
SERVICE ROAD CROSS SECTIONS					
SHEET NUMBER 27 OF 67					



Date: 8/31/2010

Username: richard.nimon

Filename: ... \029_Xsect_Access_Road_52+25_003.Brigsion: BRIDGE



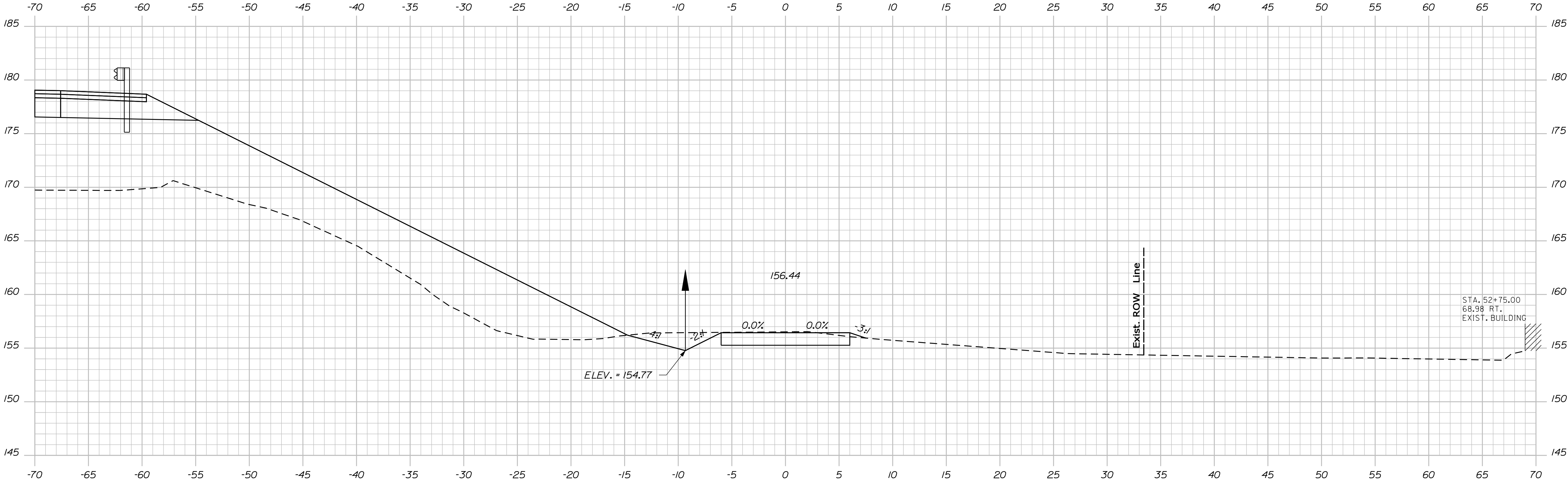
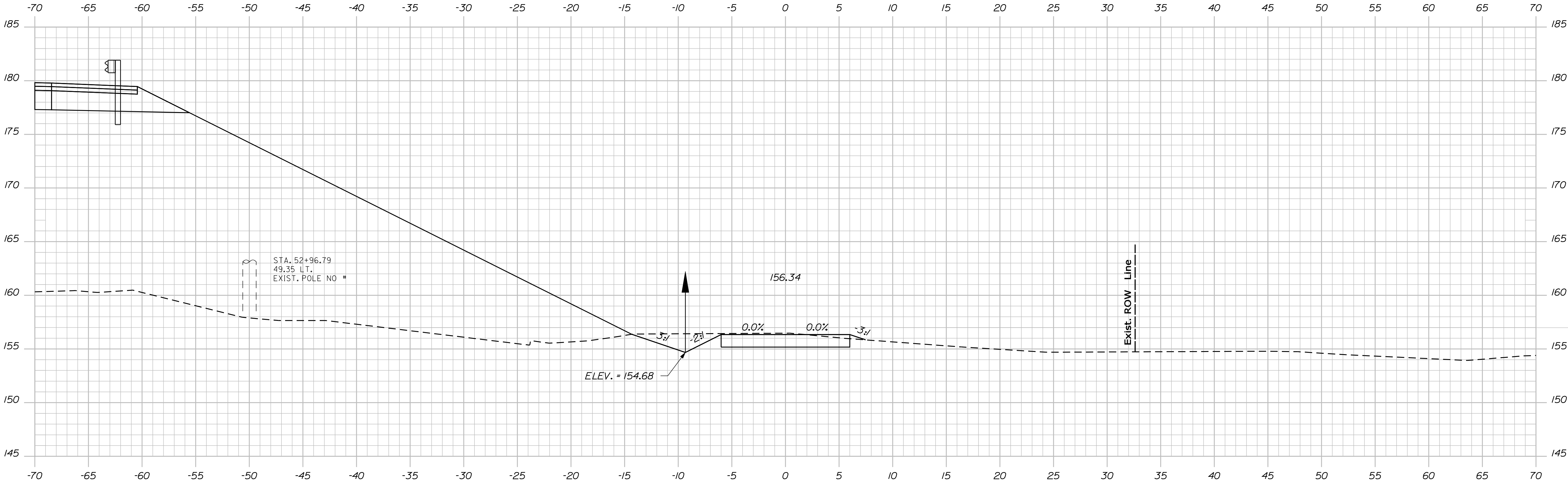
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PENOBSCOT COUNTY		SERVICE ROAD CROSS SECTIONS		SHEET NUMBER	
BY		DATE		SIGNATURE	
D. Anderson		OCT 2009		P.E. NUMBER	
M. WIGHT				DATE	
DESIGN-DETAILED		DESIGN-REVIEWED		REVISIONS 1	
DESIGN-DETAILED		DESIGN-REVIEWED		REVISIONS 2	
DESIGN-DETAILED		DESIGN-REVIEWED		REVISIONS 3	
DESIGN-DETAILED		DESIGN-REVIEWED		REVISIONS 4	
DESIGN-DETAILED		DESIGN-REVIEWED		FIELD CHANGES	
29		OF 67		BRIDGE NO. 2876	
PIN		15622.00		BRIDGE PLANS	

Date: 8/31/2010

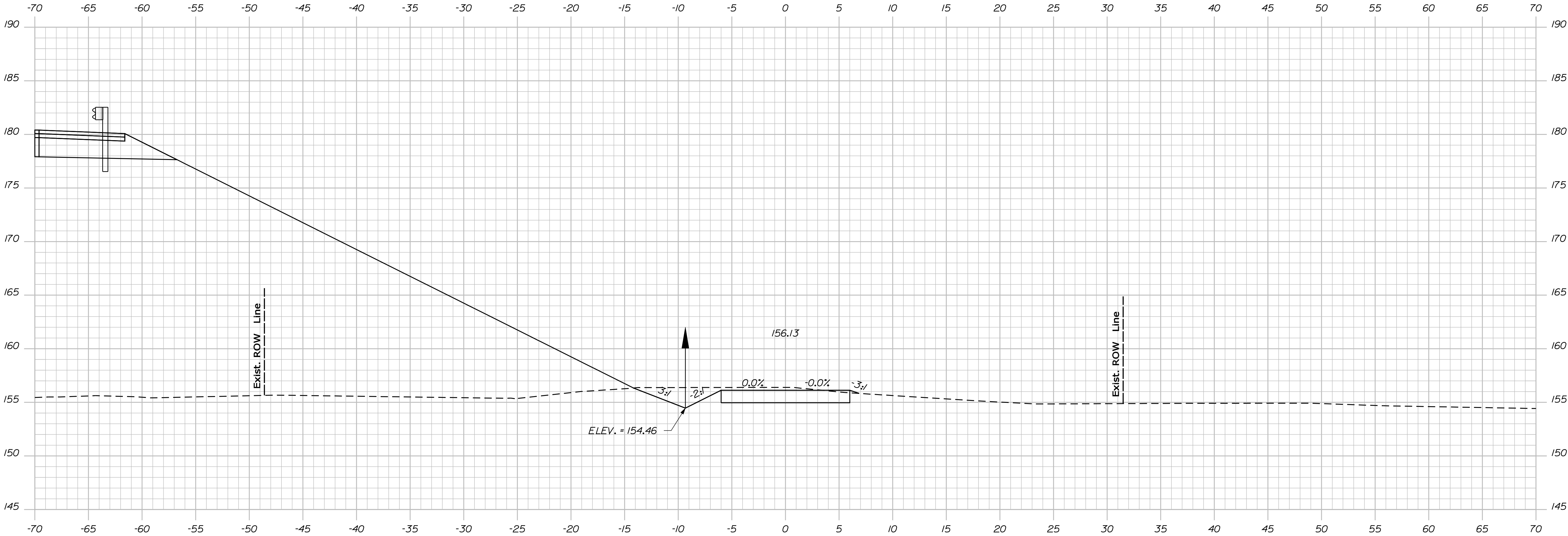
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Division: BRIDGE



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		015622.00		PIN		BRIDGE NO. 2876		15622.00		BRIDGE PLANS	
MCCR CROSSING BRIDGE		MAINE CENTRAL RAILROAD		PENOBSCOT COUNTY		CARMEL		SERVICE ROAD CROSS SECTIONS		SHEET NUMBER		30	
PROJ. MANAGER		CHECKED-REVIEWED		DESIGN-DETAILED		REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4	
D. Anderson		M. WIGHT											
BY		DATE		SIGNATURE		P.E. NUMBER		DATE					
R.J. NIMON		OCT 2009											
FIELD CHANGES													
OF 67													



53+25.00

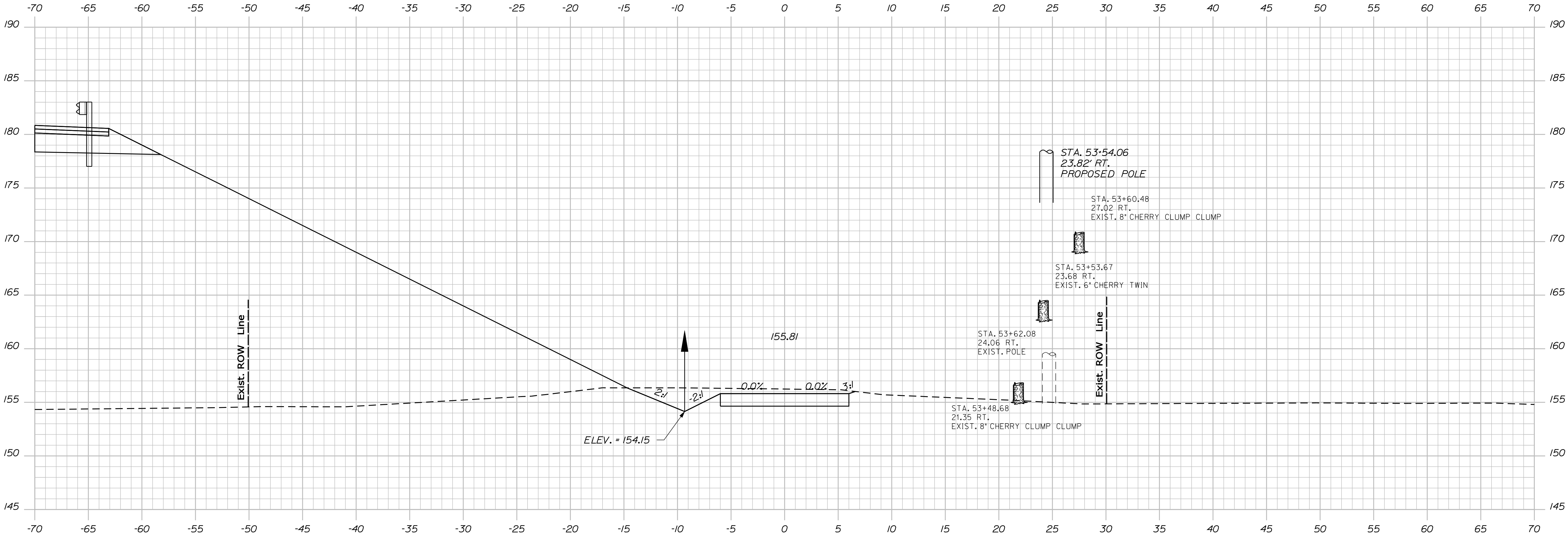
Sta. 53+25.00 to Sta. 53+25.00

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
015622.00
BRIDGE NO. 2976
PIN 15622.00
BRIDGE PLANS

PROJ. MANAGER	D. Anderson	BY		DATE	
DESIGN-DETAILED	M. WIGHT		R.J. NIMON	OCT 2009	
CHECKED-REVIEWED					SIGNATURE
DESIGN-DETAILED					P.E. NUMBER
REVISIONS 1					DATE
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
PENOBSCOT COUNTY
CARMEL
SERVICE ROAD CROSS SECTIONS

SHEET NUMBER
31
OF 67

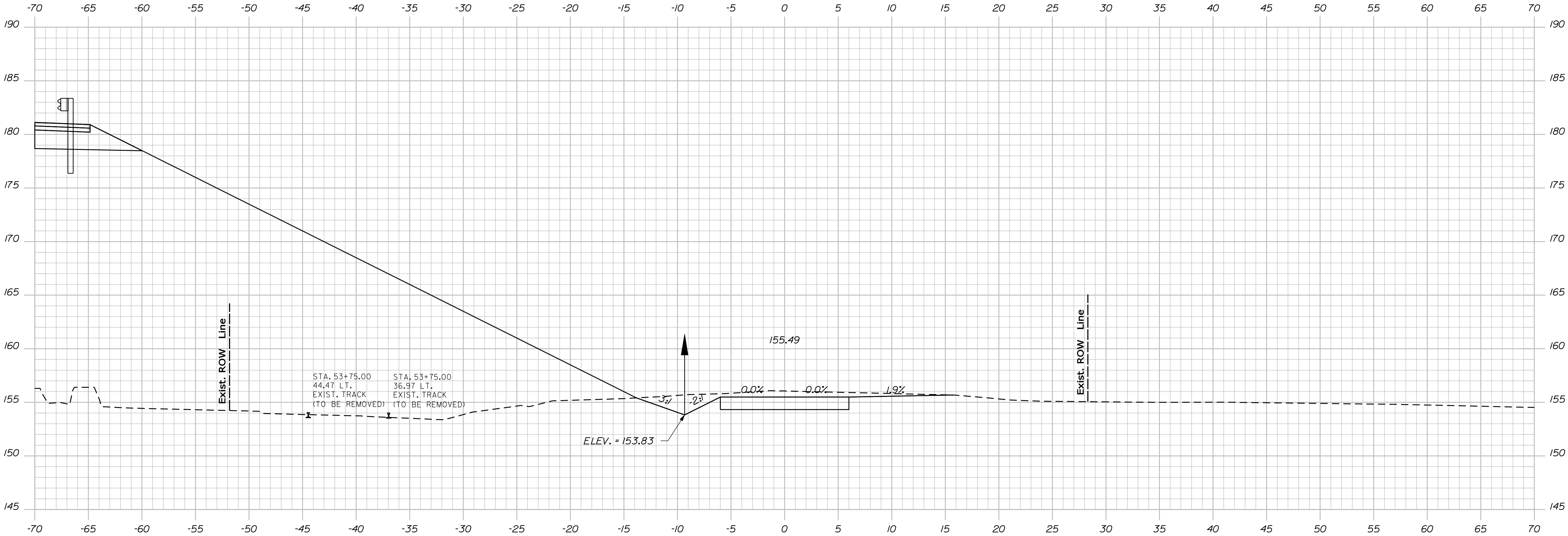


STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
015622.00
PIN 15622.00
BRIDGE NO. 2976
BRIDGE PLANS

PROJ. MANAGER	BY	DATE
D. Anderson	R.J. NIMON	OCT 2009
CHECKED-DETAILED	M. WIGHT	
CHECKED-REVIEWED		
DESIGN-DETAILED		
DESIGN-REVIEWED		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
PENOBSCOT COUNTY
CARMEL
SERVICE ROAD CROSS SECTIONS

SHEET NUMBER
32
OF 67



53+75.00

Sta. 53+75.00 to Sta. 53+75.00

STATE OF MAINE		
DEPARTMENT OF TRANSPORTATION		
015622.00		
BRIDGE NO. 2976	PIN	15622.00
BRIDGE PLANS		

PROJ. MANAGER	D. Anderson	BY		DATE	
DESIGN-DETAILED	M. WIGHT		R.J. NIMON	OCT 2009	
CHECKED-REVIEWED					SIGNATURE
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REVISIONS 1					DATE
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FIELD CHANGES					

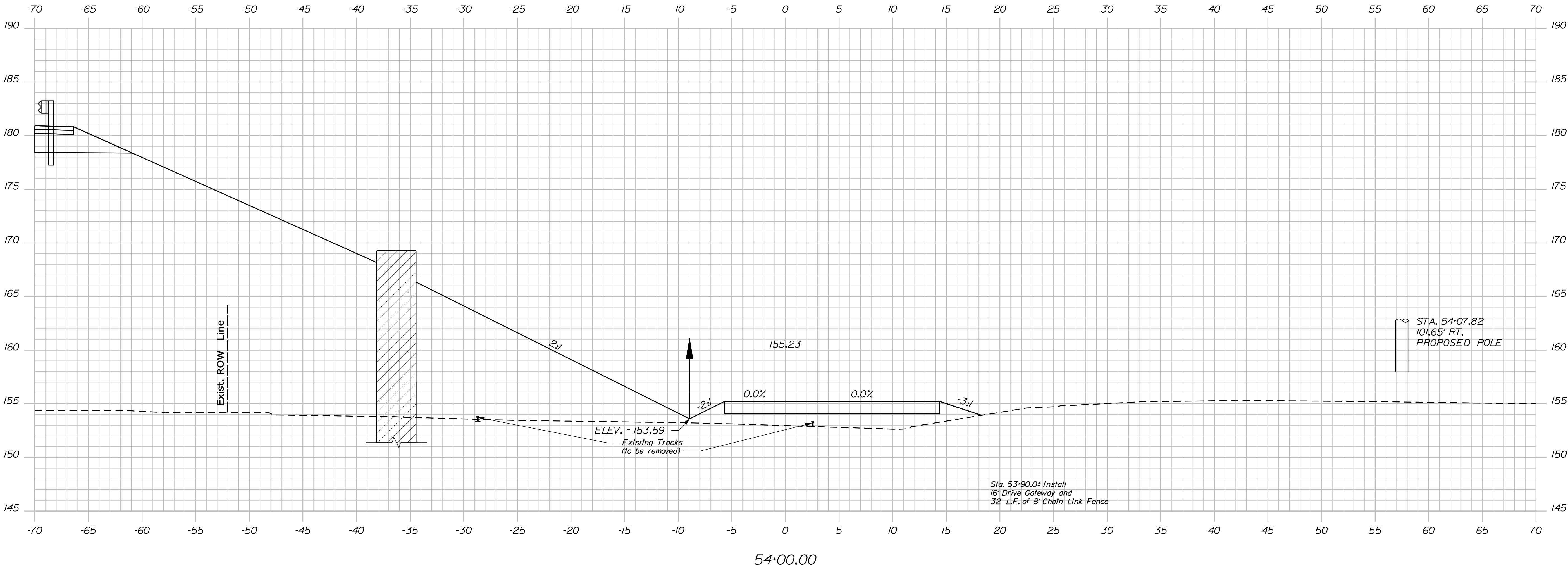
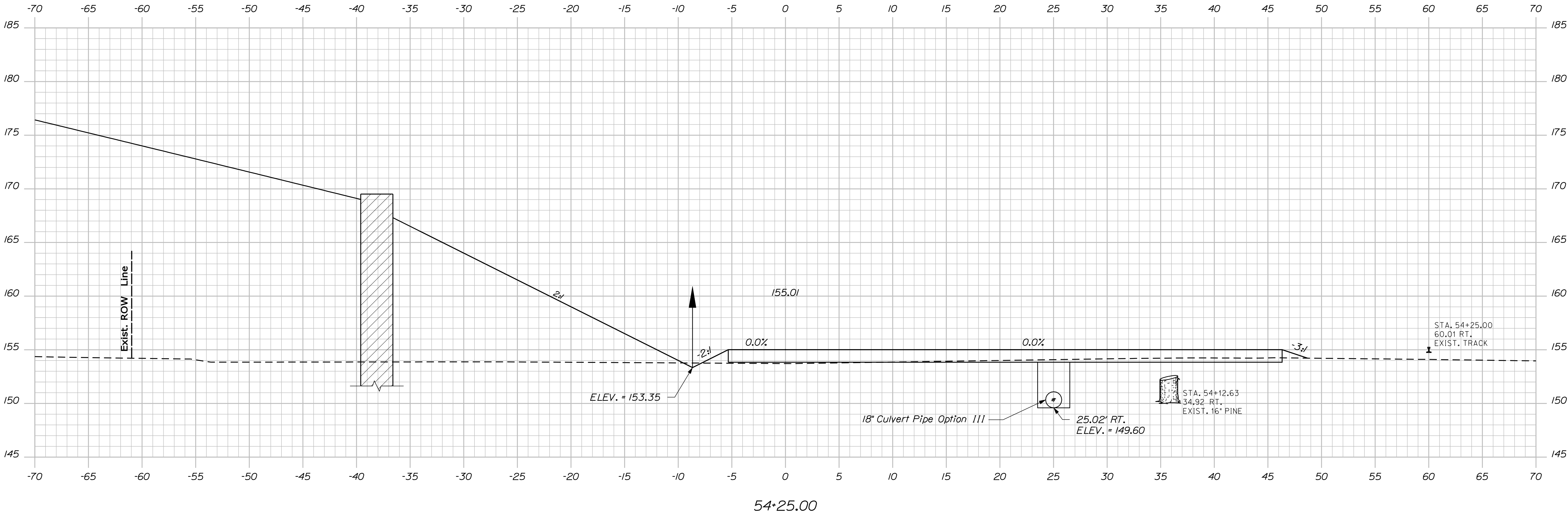
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MAINE CENTRAL RAILROAD
PENOBSCOT COUNTY
CARMEL
SERVICE ROAD CROSS SECTIONS

SHEET NUMBER
33
OF 67

Date: 8/31/2010

Username: richard.nimon

Filename: ... \034_Xsect_Access_Road_54+00_008.dgn
 Division: BRIDGE



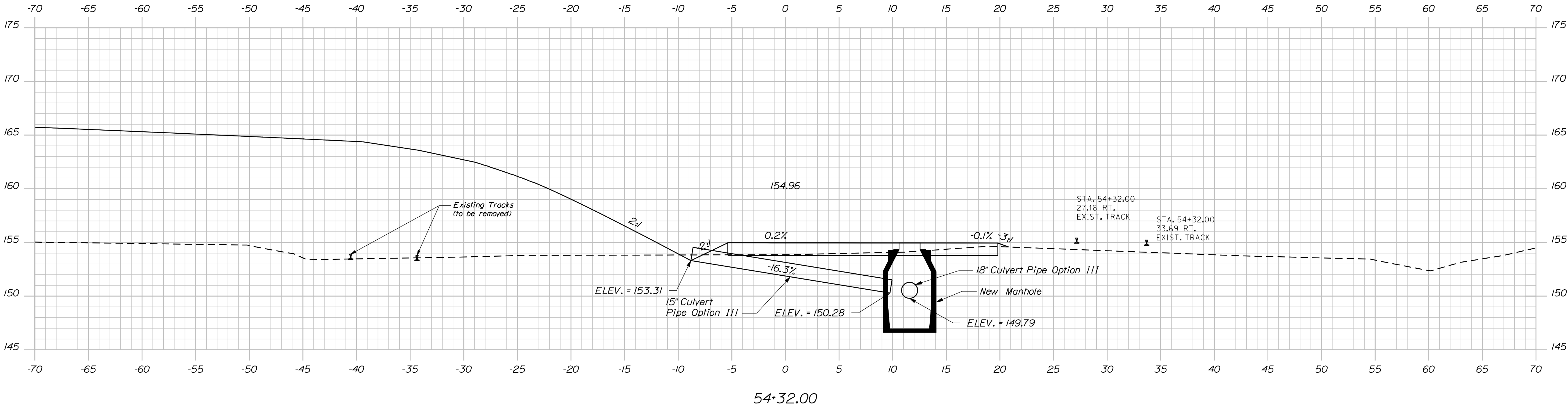
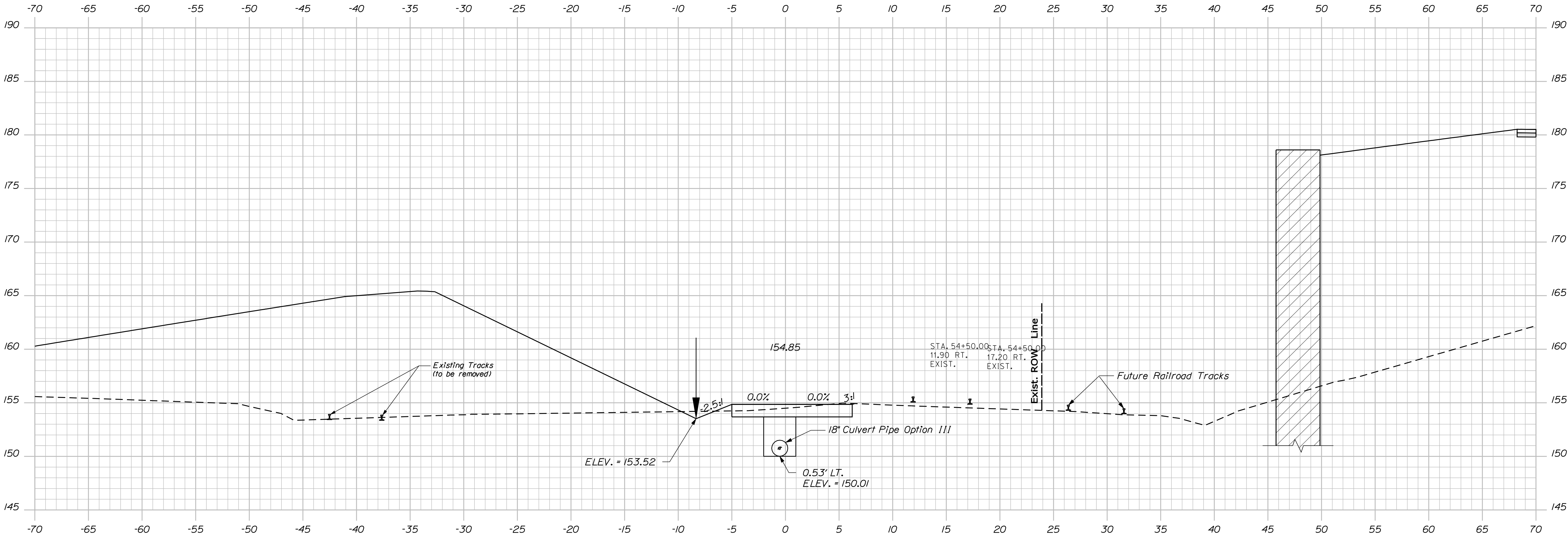
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34				DEPARTMENT OF TRANSPORTATION			
OF 67				015622.00			
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MAINE CENTRAL RAILROAD				PIN			
CARMEL PENOBSCOT COUNTY				15622.00			
SERVICE ROAD CROSS SECTIONS				BRIDGE PLANS			
PROJ. MANAGER		D. Anderson		BY		DATE	
DESIGN-DETAILED		M. WIGHT		R.J. NIMON		OCT 2009	
CHECKED-REVIEWED						SIGNATURE	
DESIGN-DETAILED							
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REVISIONS 1							
REVISIONS 2							
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REVISIONS 4							
FIELD CHANGES							

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Division: BRIDGE

Username: richard.nimon

Date: 9/1/2010



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
015622.00

BRIDGE NO. 2976
PIN
15622.00
BRIDGE PLANS

PROJ. MANAGER
D. Anderson

CHECKED-REVIEWED
M. WIGHT

DESIGN-DETAILED
R. J. NIMON

DATE
OCT 2009

BY

SIGNATURE

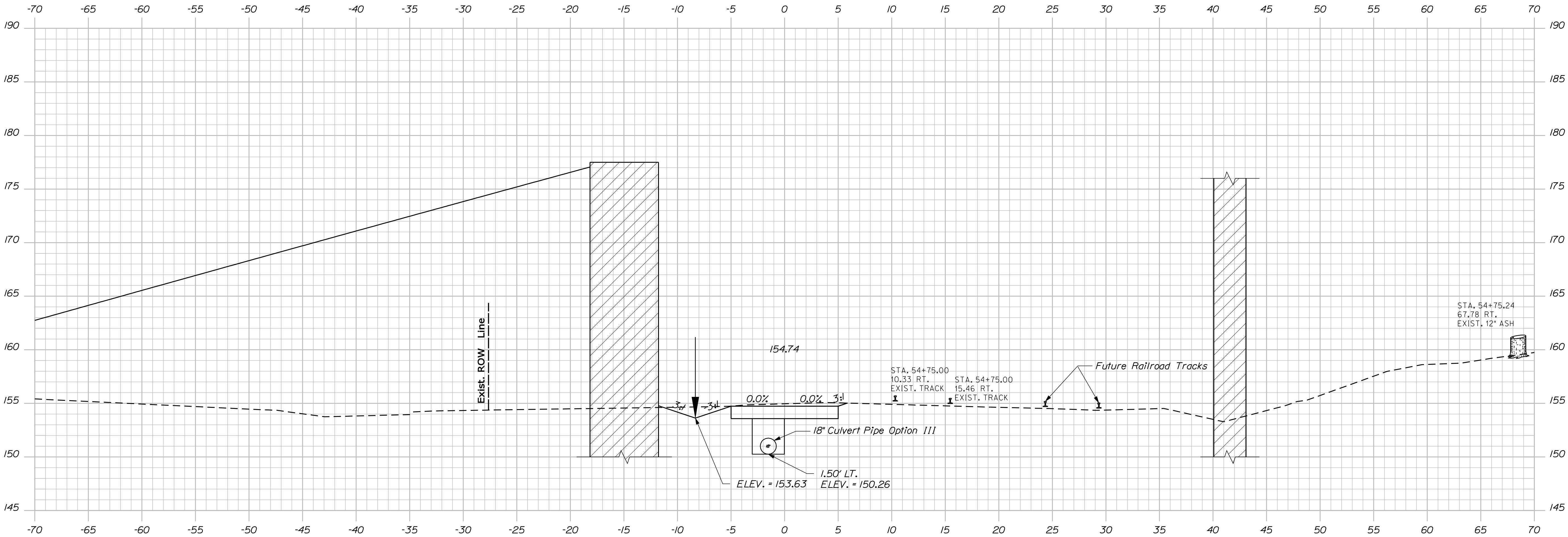
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DATE

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL
PENOBSCOT COUNTY

SHEET NUMBER
35
OF 67

SERVICE ROAD CROSS SECTIONS



54+75.00

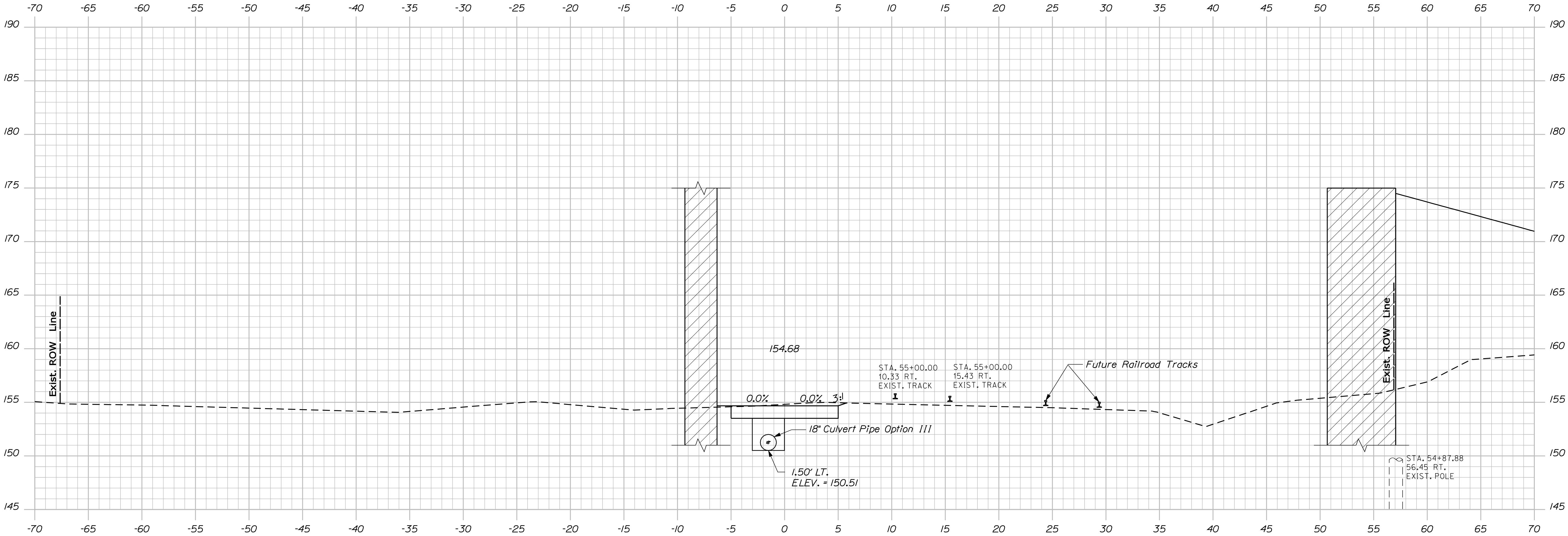
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STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	BY	DATE
D. Anderson	R.J. NIMON	OCT 2009
CHECKED-REVIEWED	M. WIGHT	SIGNATURE
DESIGN-DETAILED		P.E. NUMBER
DESIGN-DETAILED		DATE
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
PENOBSCOT COUNTY	
CARMEL	
SERVICE ROAD CROSS SECTIONS	

SHEET NUMBER
36
OF 67



55+00.00

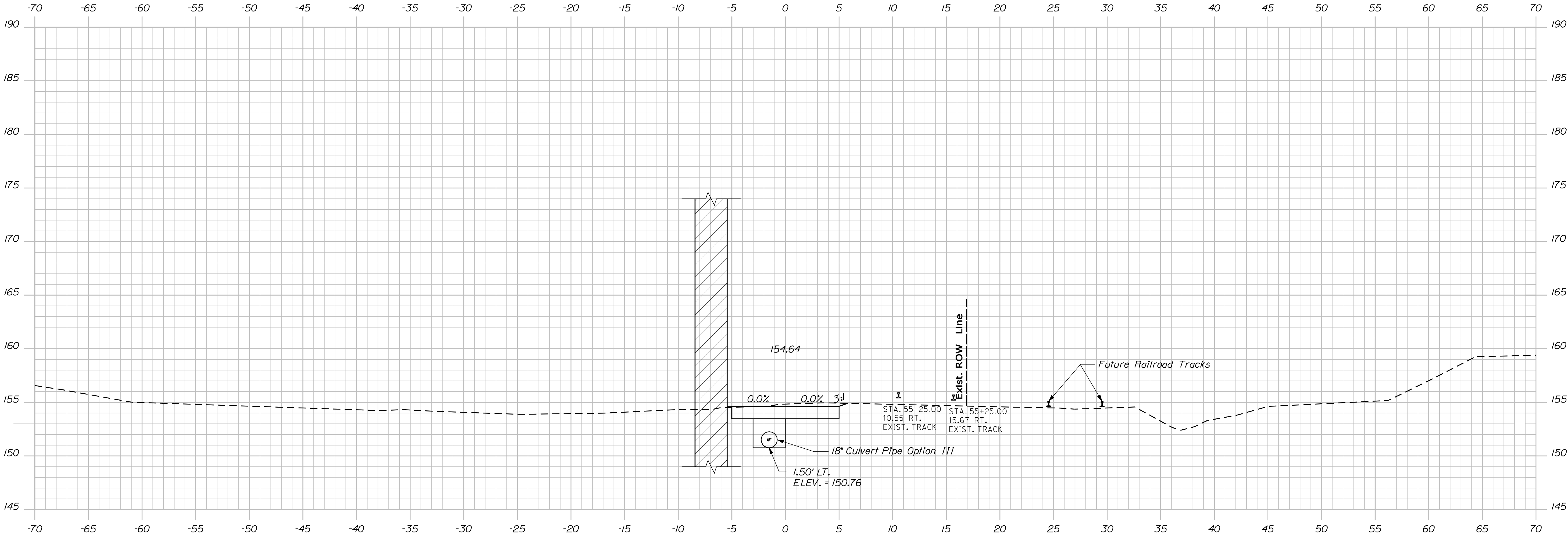
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STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	D. Anderson	BY		DATE	
CHECKED-DETAILED	M. WIGHT		R.J. NIMON	OCT 2009	SIGNATURE
DESIGN-DETAILED					P.E. NUMBER
REVISIONS 1					DATE
REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
PENOBSCOT COUNTY	
CARMEL	
SERVICE ROAD CROSS SECTIONS	

SHEET NUMBER
37
OF 67



55+25.00

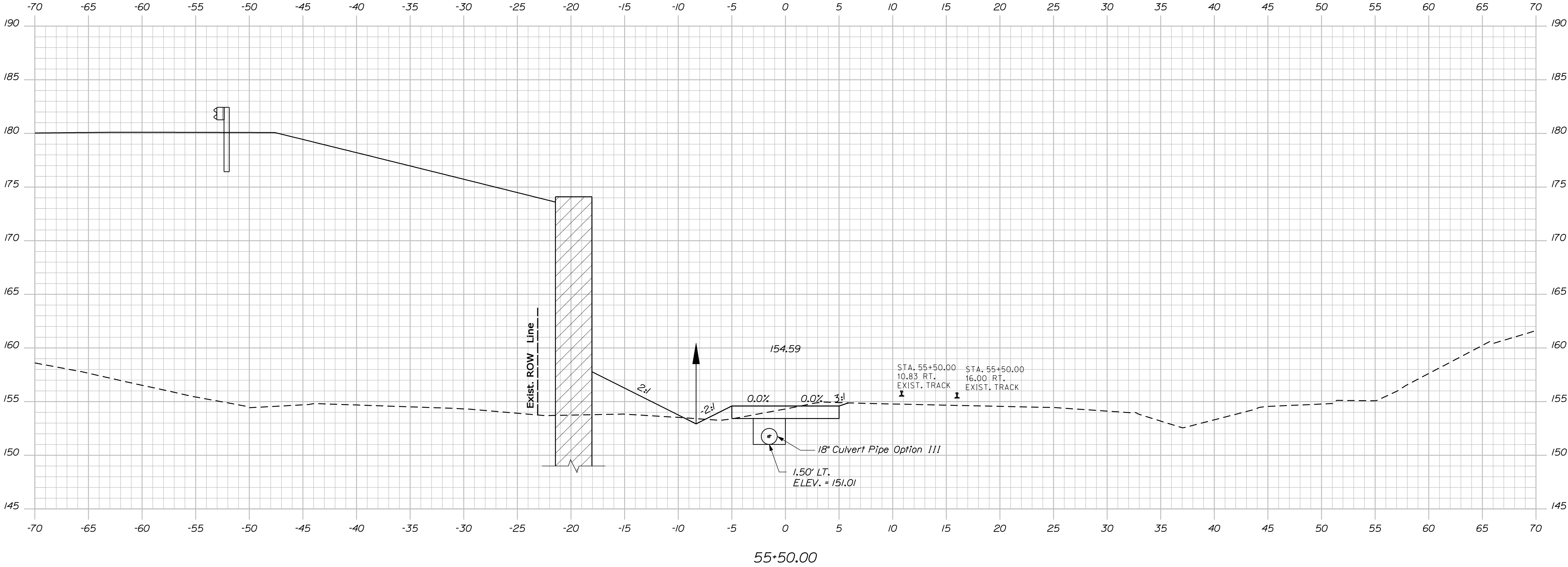
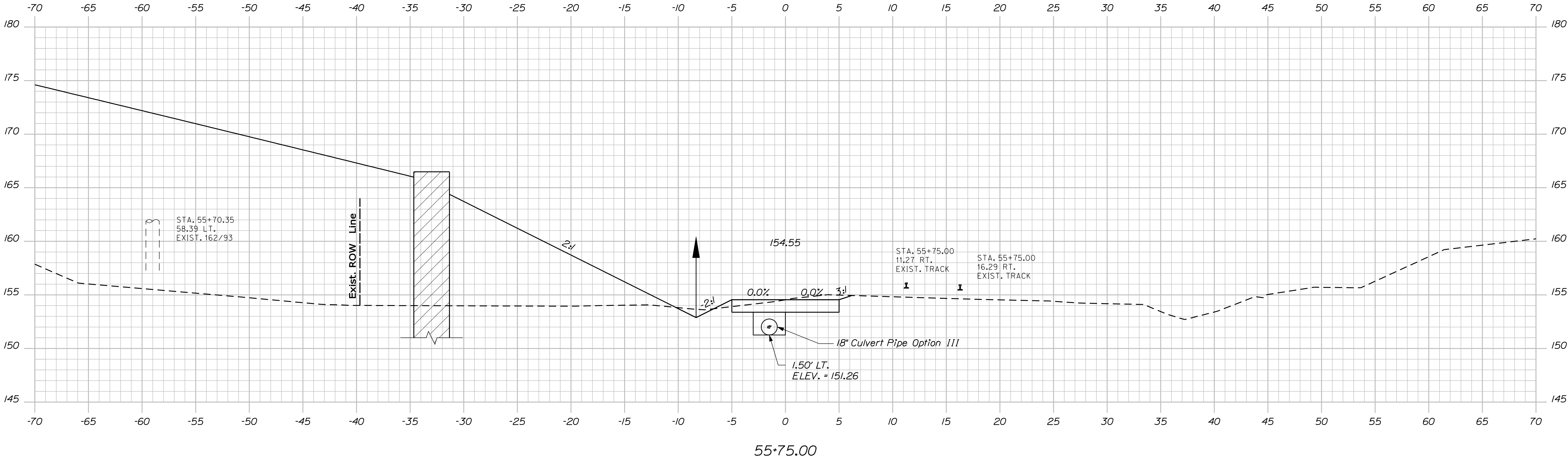
Sta. 55+25.00 to Sta. 55+25.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	D. Anderson	BY	R.J. NMON	DATE	OCT 2009
DESIGN-DETAILED	M. WIGHT	SIGNATURE			
CHECKED-REVIEWED					
DESIGN-DETAILED02		P.E. NUMBER			
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REVISIONS 1		DATE			
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REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					

MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
PENOBSCOT COUNTY	
CARMEL	
SERVICE ROAD CROSS SECTIONS	

SHEET NUMBER
38
OF 67



STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

015622.00

PIN
15622.00

BRIDGE NO. 2976

BRIDGE PLANS

MCCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL
PENOBSCOT COUNTY

SHEET NUMBER
39
OF 67

PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE
D. Anderson	M. WIGHT	R. J. NIMON		OCT 2009
DESIGN-DETAILED				
REVISIONS 1				
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FIELD CHANGES				

SIGNATURE

P.E. NUMBER

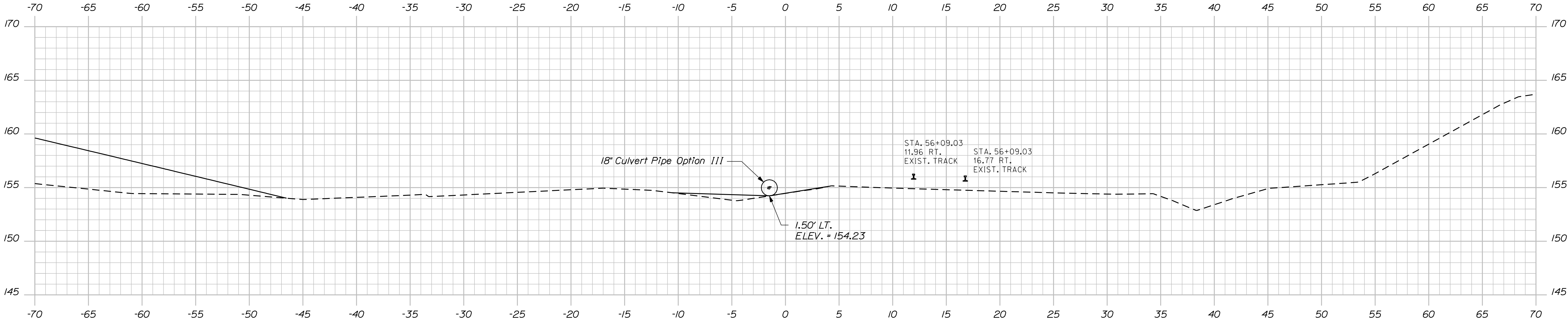
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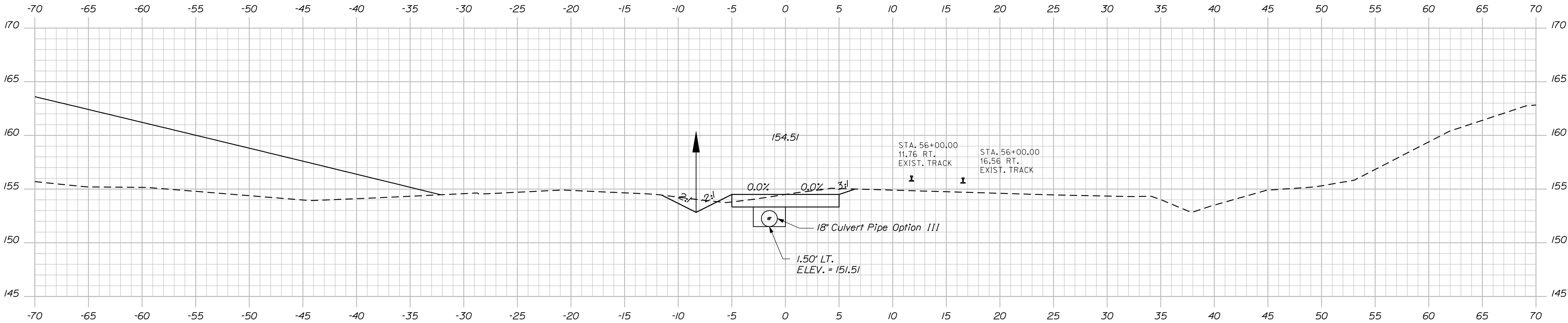
Date:8/31/2010

Username: richard.nimon

Filename: ... \040_Xsect_Access_Road_56+00_014.dgnDivision: BRIDGE



56+09.03



56+00.00
End Project

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

SIGNATURE	
P.E. NUMBER	
DATE	
BY	DATE
R.J. NIMON	OCT 2009
DESIGNED BY	DATE
CHECKED BY	DATE
DESIGNED BY	DATE
REVISIONS 1	DATE
REVISIONS 2	DATE
REVISIONS 3	DATE
REVISIONS 4	DATE
FIELD CHANGES	

MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
PENOBSCOT COUNTY	
CARMEL	
SERVICE ROAD CROSS SECTIONS	

SHEET NUMBER	
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OF 67	

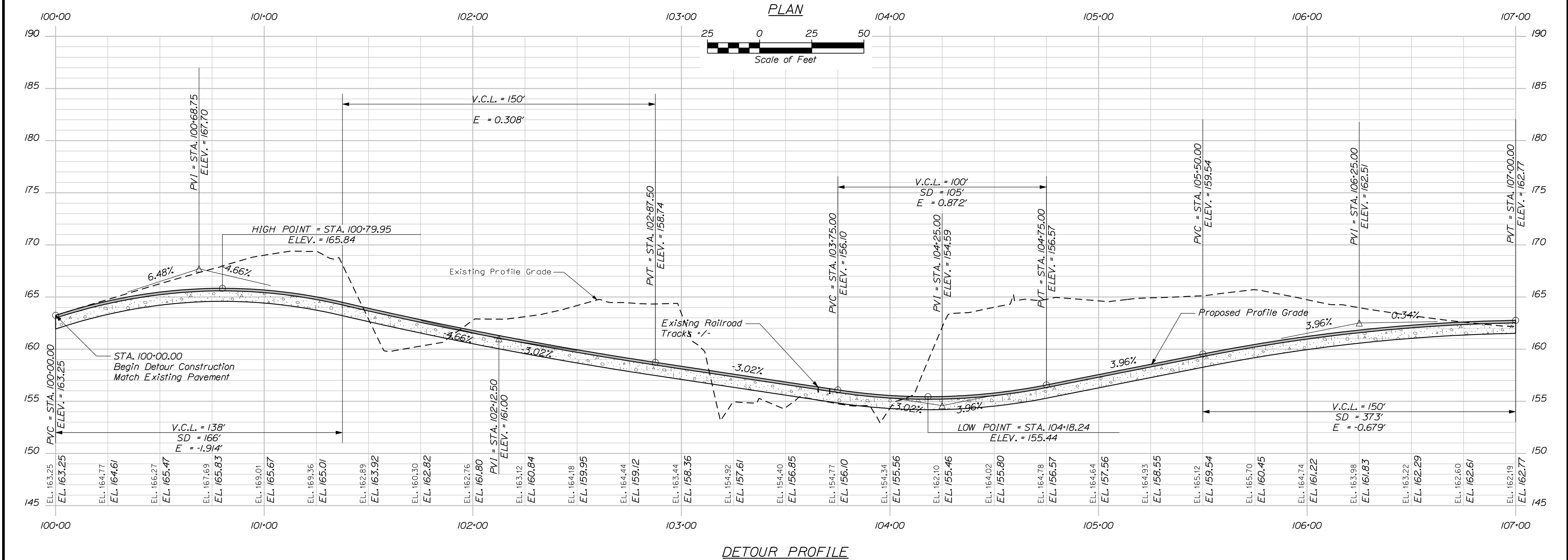
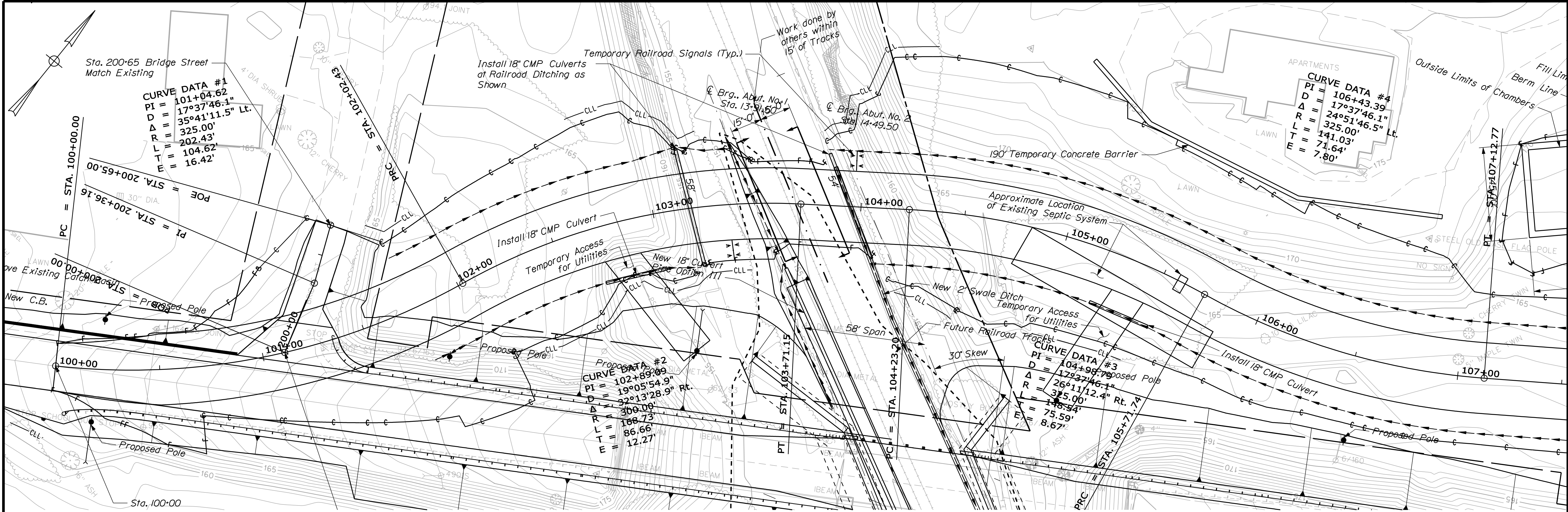
Sta. 56+00.00 to Sta. 56+09.03

Date: 8/31/2010

Username: richard.nimon

Division: BRIDGE

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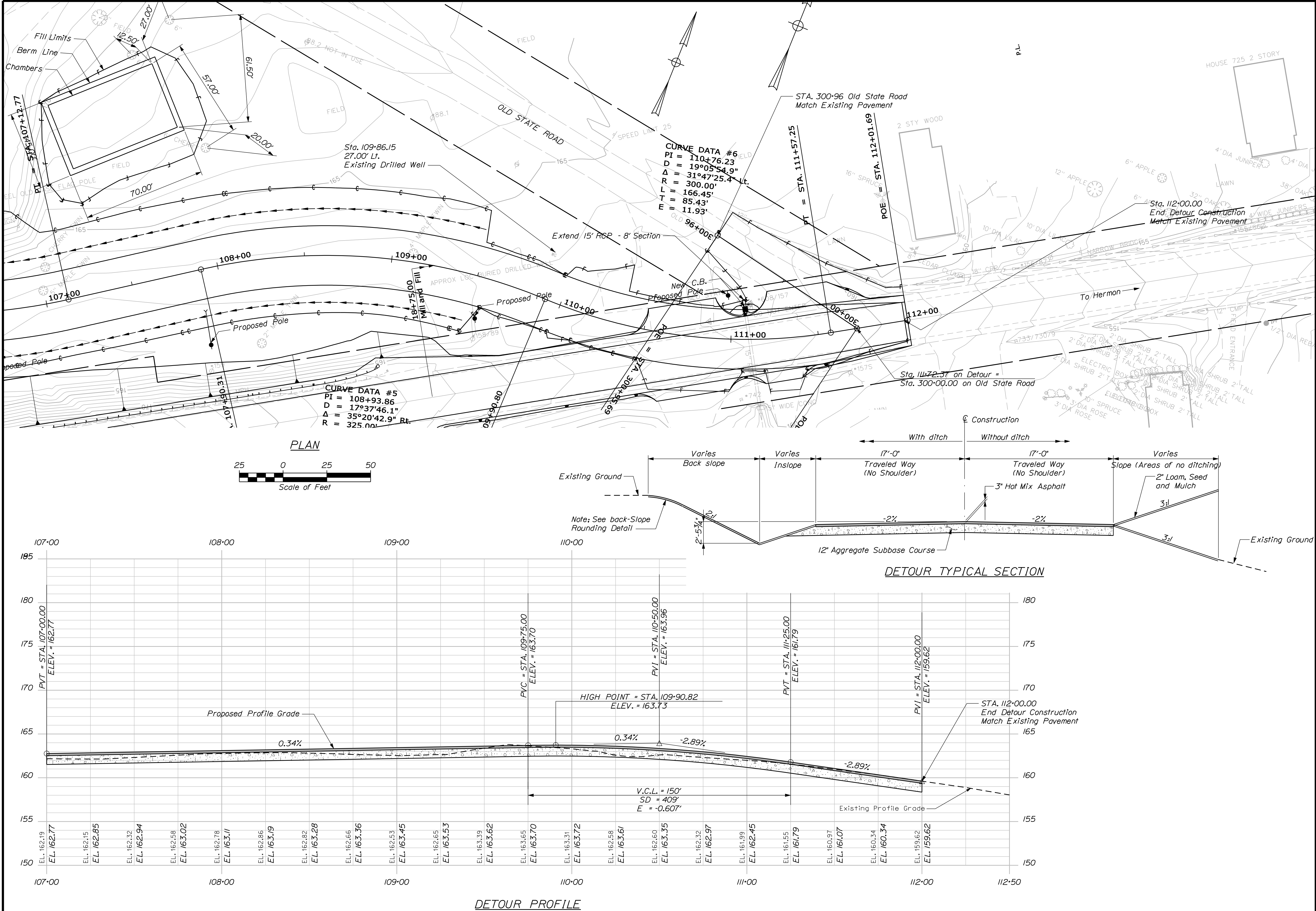
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		015622.00		PIN 15622.00		BRIDGE NO. 2976		BRIDGE PLANS	
MCCR CROSSING BRIDGE		CARMEL		PENOBSCOT COUNTY		DETOUR PLAN AND PROFILE		SHEET NUMBER		41	
PROJ. MANAGER		D. ANDERSON		BY		DATE		SIGNATURE		P.E. NUMBER	
DESIGN-DETAILED		M. WIGHT		R.J. NIMON		OCT 2009					
CHECKED-REVIEWED											
DESIGNS-DETAILED											
REVISIONS 1											
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REVISIONS 3											
REVISIONS 4											
FIELD CHANGES											

Date:8/31/2010

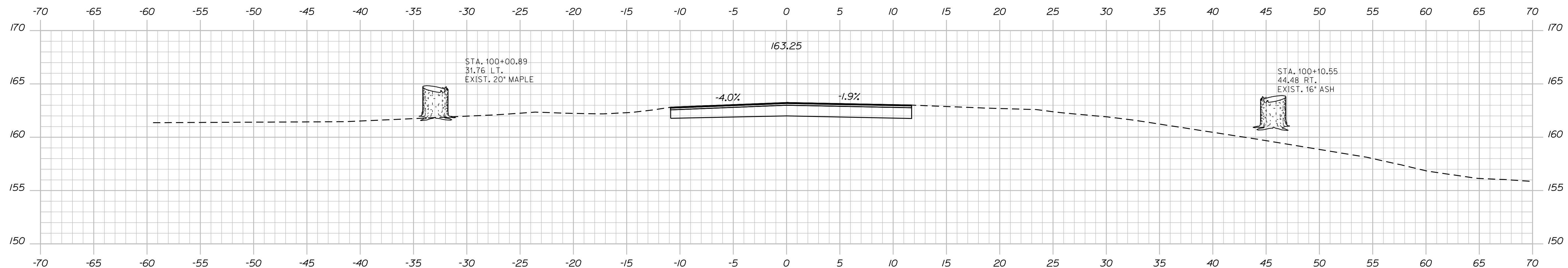
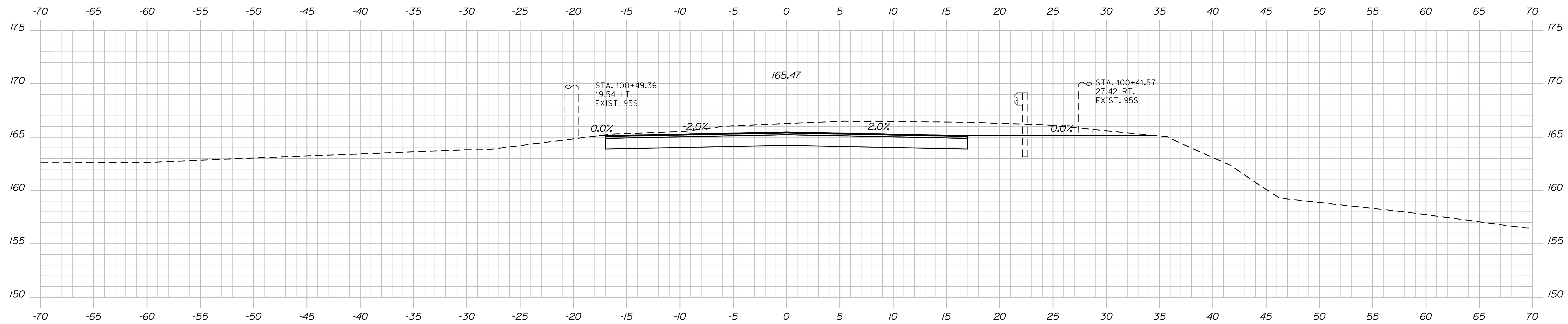
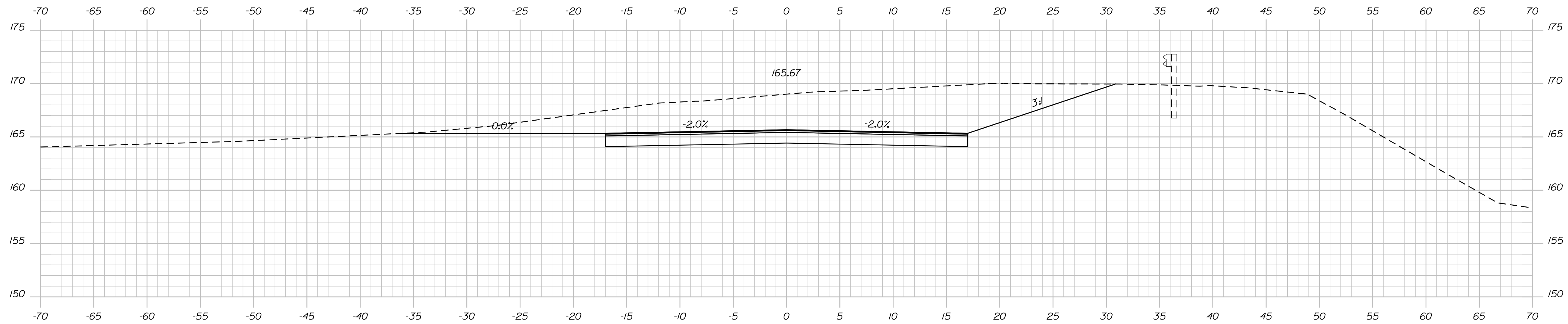
Username: richard.nimon

Division: BRIDGE

Filename: ... \msta\042_Bridge Detour2.dgn



STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		015622.00		PIN 15622.00		BRIDGE NO. 2976		BRIDGE PLANS	
MCCR CROSSING BRIDGE		CARMEL		PENOBSCOT COUNTY		DETOUR PLAN AND PROFILE		SHEET NUMBER		42	
MAINE CENTRAL RAILROAD		DETOUR PLAN AND PROFILE		SIGNATURE		P.E. NUMBER		DATE			
PROJ. MANAGER		BY		DATE							
DESIGN-DETAILED		M. WIGHT		OCT 2009							
CHECKED-REVIEWED											
DESIGN-DETAILED											
REVISIONS 1											
REVISIONS 2											
REVISIONS 3											
REVISIONS 4											
FIELD CHANGES											



STATE OF MAINE

DEPARTMENT OF TRANSPORTATION

015622.00

PIN

FIN
15622.00

BRIDGE NO. 2976

BRIDGE PLANS

SIGNATURE

P.F. NUMBER

DATE _____

DATE	OCT 2009
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BY

Anderson	5
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DESIGN-DETAIL

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MCRR CROSSING BRIDGE

MAINE CROSSING BRIDGE
MAINE CENTRAL RAILROAD

CARMEL MARINE CENTRAL PEN

CARMEL

DETOUR CROSS SECTIONS

SHEET NUMBER

43

OF 67

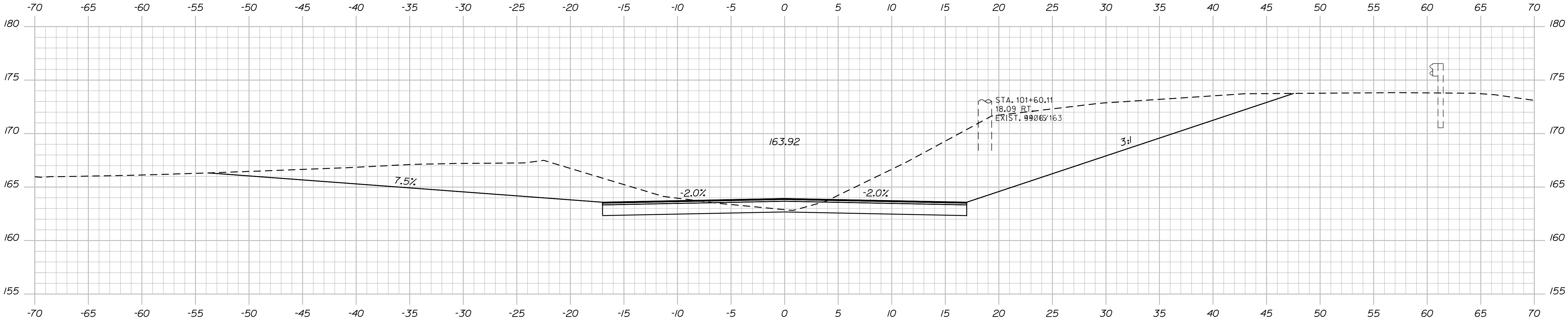
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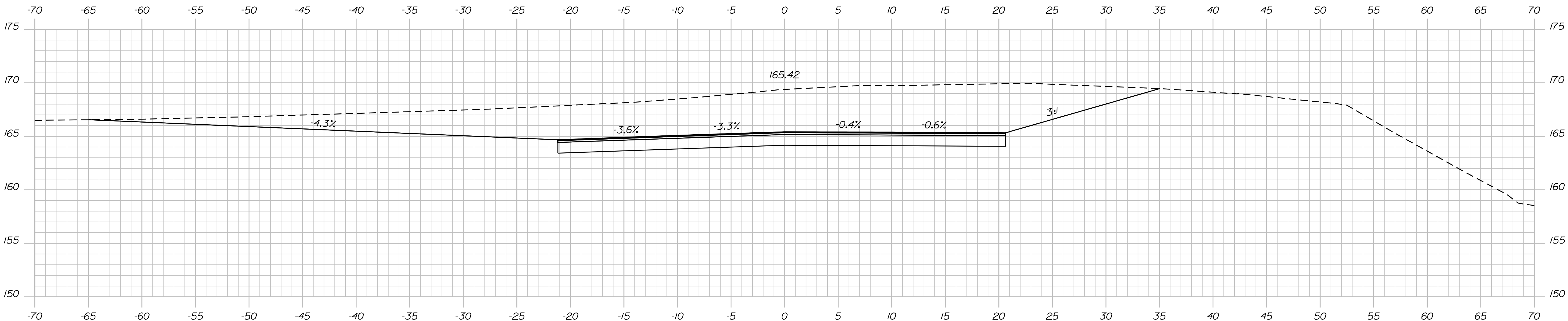
Username: richard.nimon

Division: BRIDGE

Filename: ... \044_Xsect_Detour_101+12_002.dgn



101+50.00



101+12.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

SIGNATURE	
P.E. NUMBER	
DATE	
PROJ. MANAGER	BY
DESIGN-DETAILED	DATE
CHECKED-REVIEWED	R.J. NIMON
DESIGN-DETAILED	OCT 2009
REVISIONS 1	
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REVISIONS 3	
REVISIONS 4	
FIELD CHANGES	

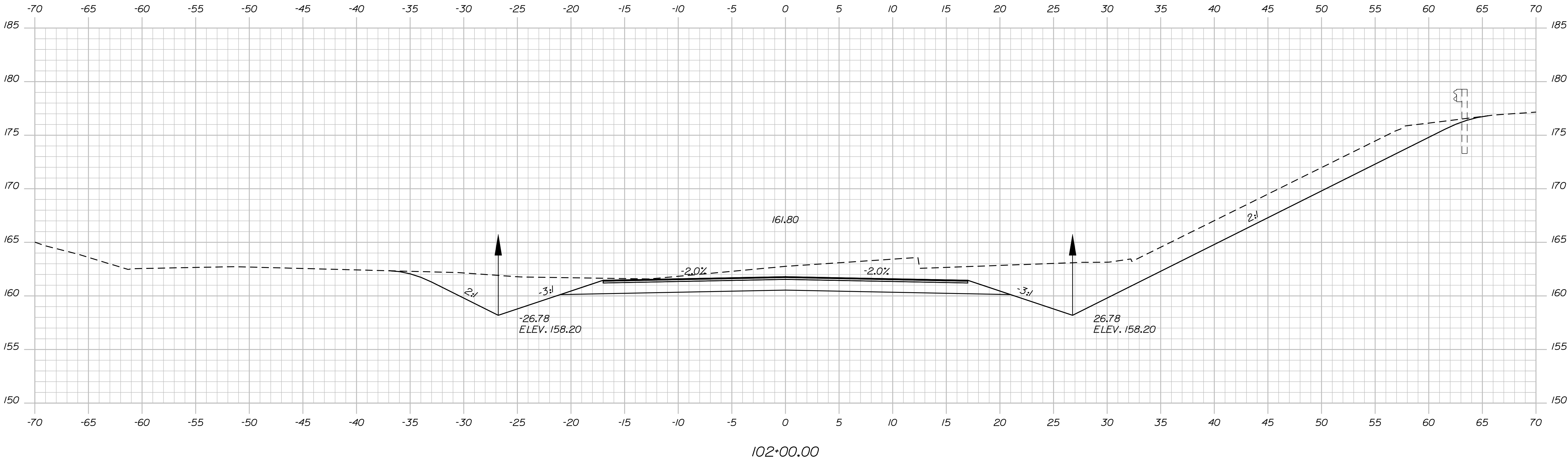
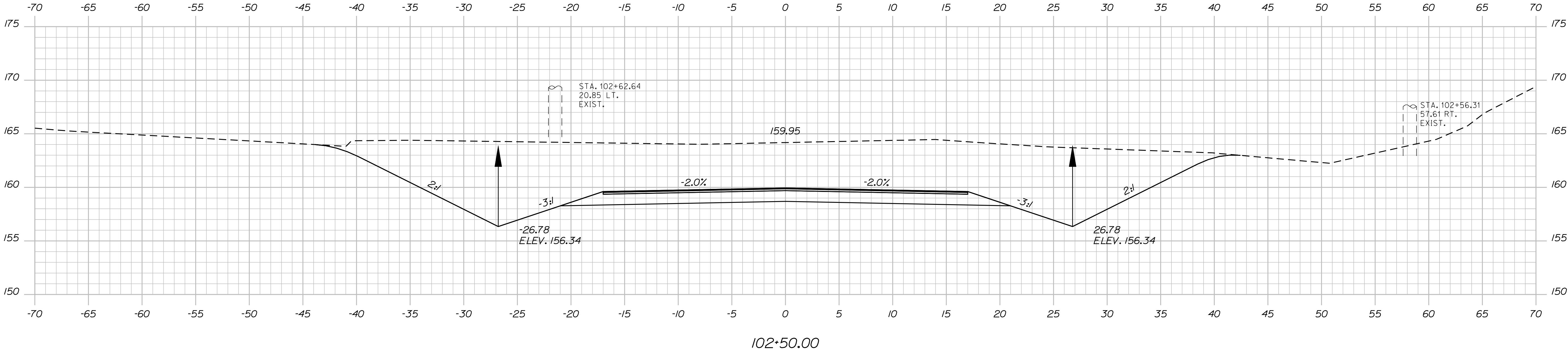
MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
CARMEL	
PENOBSCOT COUNTY	
DETOUR CROSS SECTIONS	

SHEET NUMBER	
44	
OF 67	

Date: 8/31/2010

Username: richard.nimon

Filename: ... \045_Xsect_Detour_102+00_003.dgn Division: BRIDGE



STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	BY	DATE
D. Anderson	R.J. NIMON	OCT 2009
CHECKED-REVIEWED	M. WIGHT	
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DESIGN-DETAILED		
REVISIONS 1		
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FIELD CHANGES		

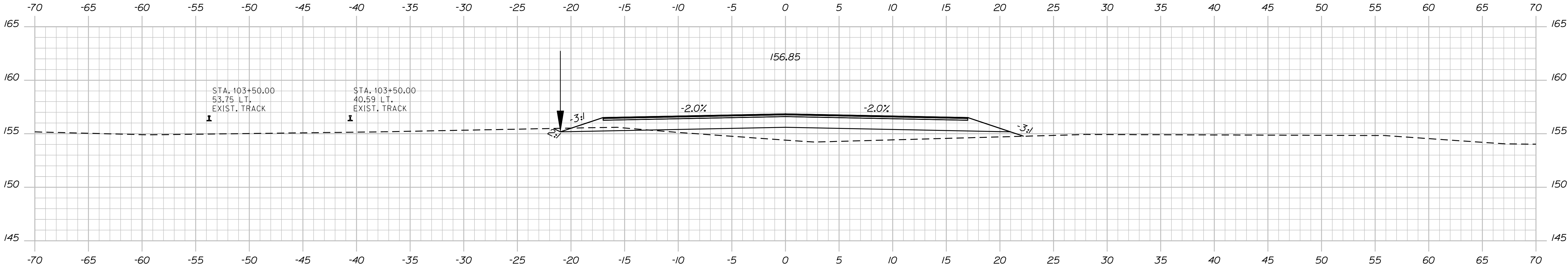
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MAINE CENTRAL RAILROAD	
PENOBSCOT COUNTY	
CARMEL	
DETOUR CROSS SECTIONS	

SHEET NUMBER
45
OF 67

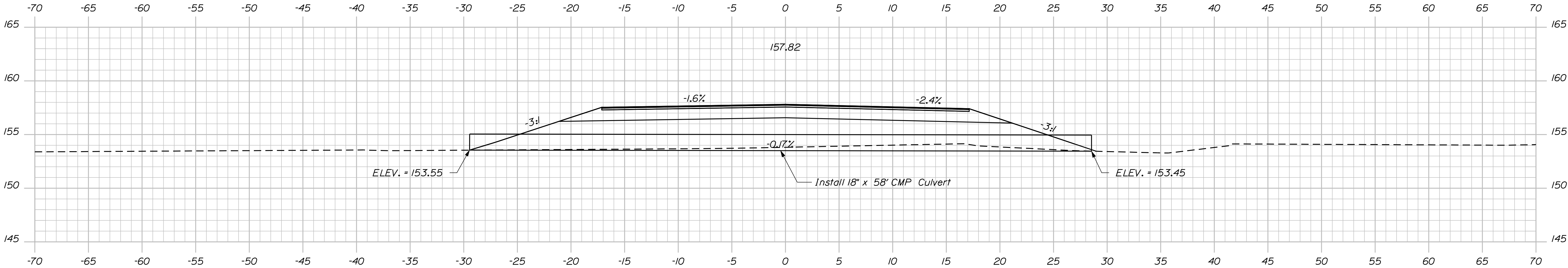
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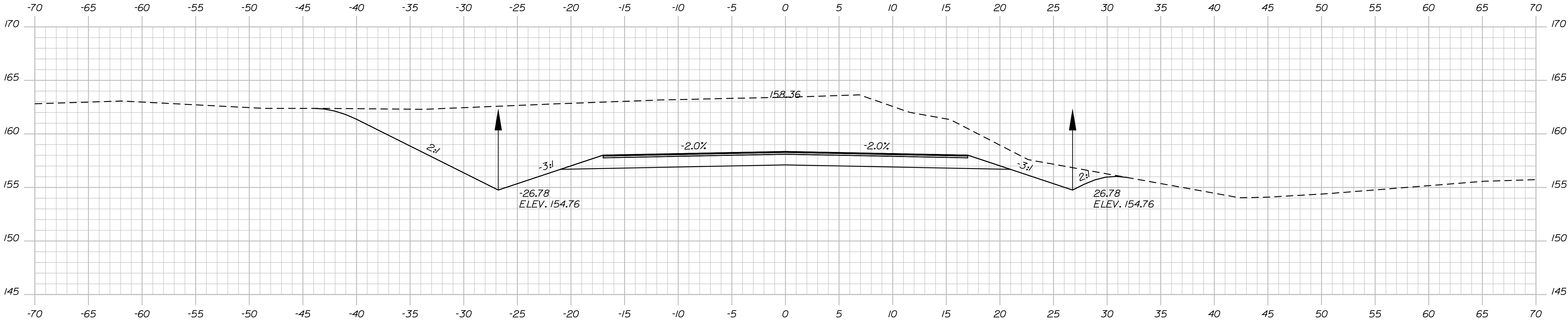
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103+50.00



103+17.95



103+00.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
PIN	15622.00
BRIDGE NO. 2976	BRIDGE PLANS

PROJ. MANAGER	BY	DATE
D. Anderson	R.J. NIMON	OCT 2009
CHECKED-REVIEWED	SIGNATURE	
DESIGN-DETAILED	P.E. NUMBER	
REVISIONS 1	DATE	
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FIELD CHANGES		

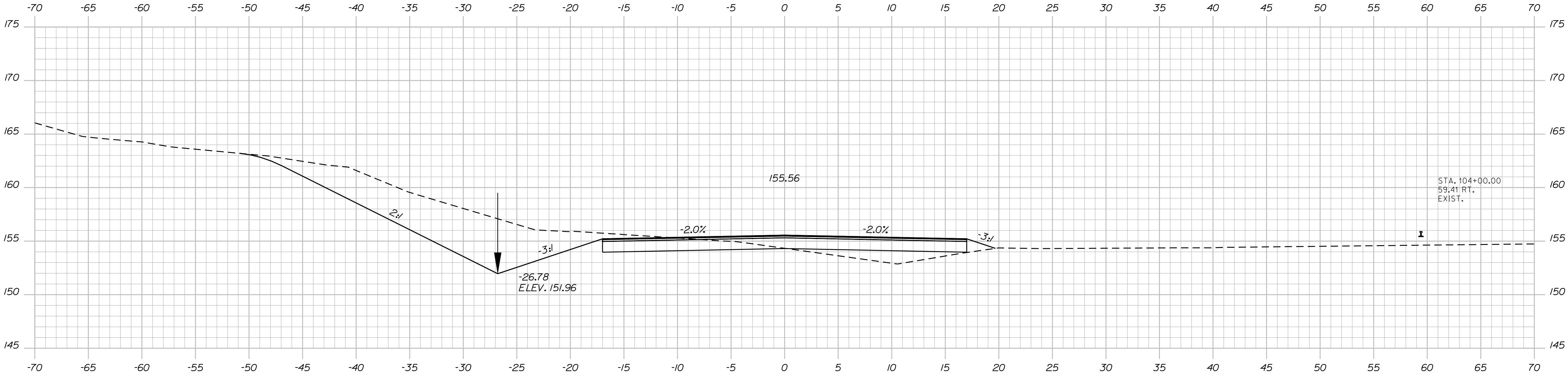
MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
CARMEL	
PENOBSCOT COUNTY	
DETOUR CROSS SECTIONS	

SHEET NUMBER
46
OF 67

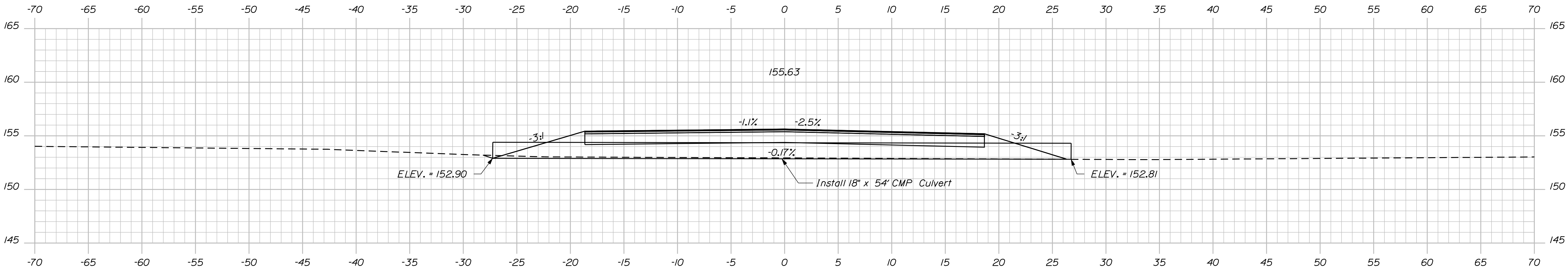
Date:8/31/2010

Username: richard.nimon

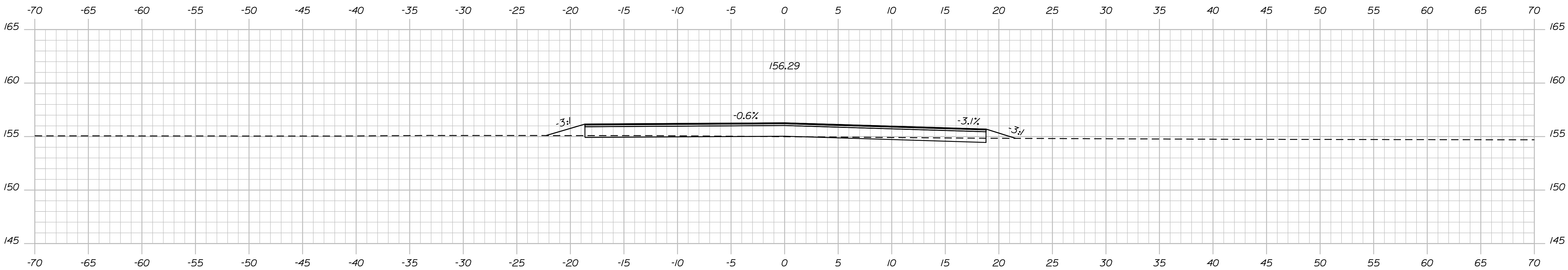
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104+00.00

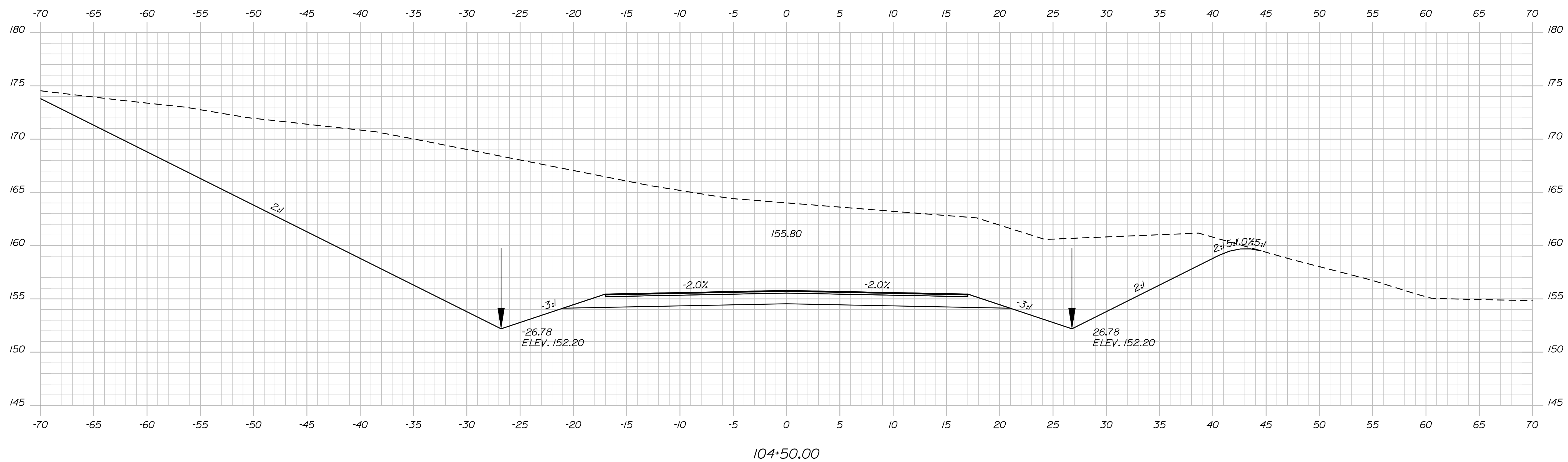
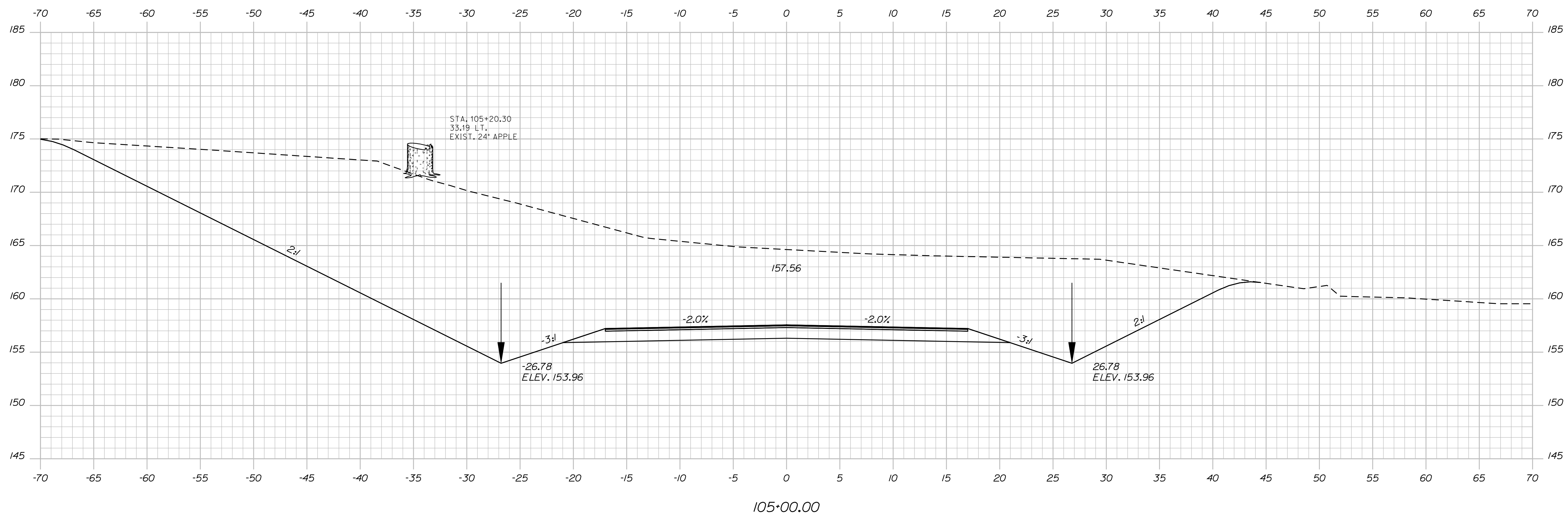


103+95.20



103+68.72

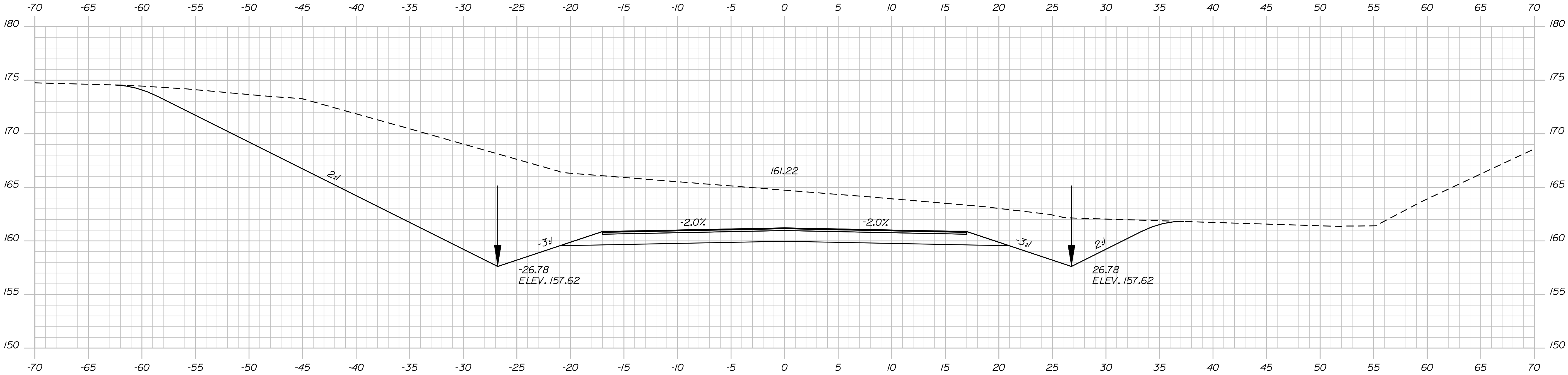
MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY					PROJ. MANAGER D. Anderson M. WIGHT		BY R.J. NIMON	DATE OCT 2009	STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
DETOUR CROSS SECTIONS					CHECKED-DETAILED		SIGNATURE		015622.00	
					CHECKED-REVIEWED					
					DESIGN2-DETAILED2					
					DESIGN3-DETAILED3					
					REVISIONS 1		P.E. NUMBER		BRIDGE NO. 2976 PIN 15622.00 BRIDGE PLANS	
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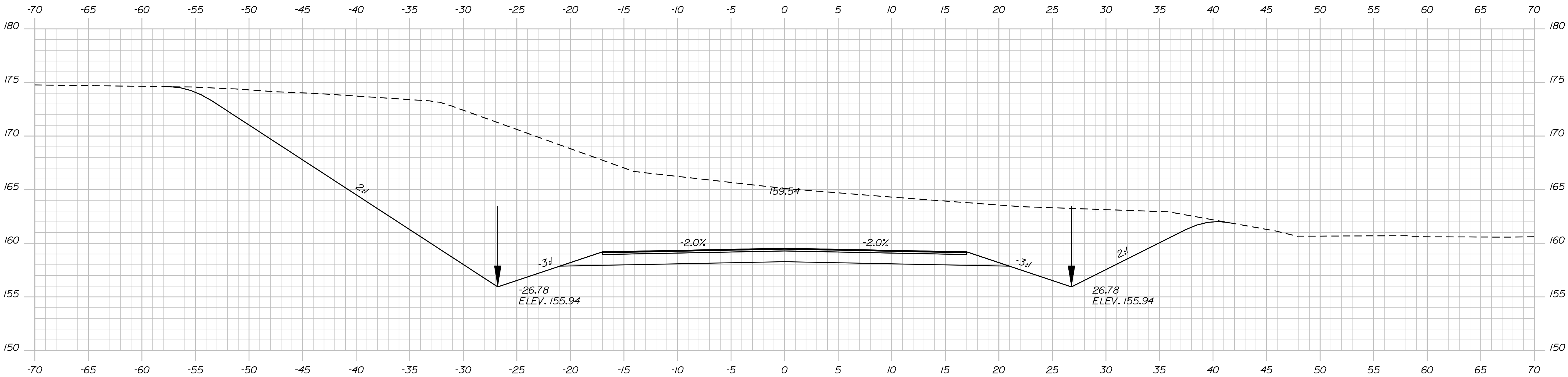
Date: 8/31/2010

Username: richard.nimon

Filename: ... \049_Xsect_Detour_105+50_007.dgn Division: BRIDGE



106+00.00



105+50.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	D. Anderson	BY	DATE
DESIGN-DETAILED	M. WIGHT	R.J. NIMON	OCT 2009
CHECKED-REVIEWED	SIGNATURE		
DESIGN-DETAILED	P.E. NUMBER		
DESIGNS DET AILED	DATE		
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REVISIONS 4			
FIELD CHANGES			

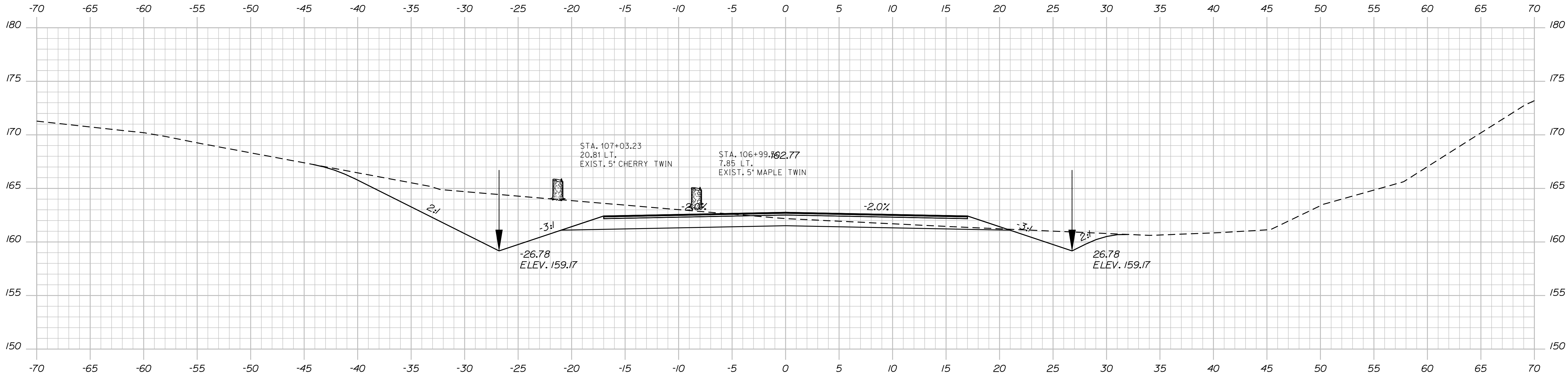
MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
PENOBSCOT COUNTY	
CARMEL	
DETOUR CROSS SECTIONS	

SHEET NUMBER
49
OF 67

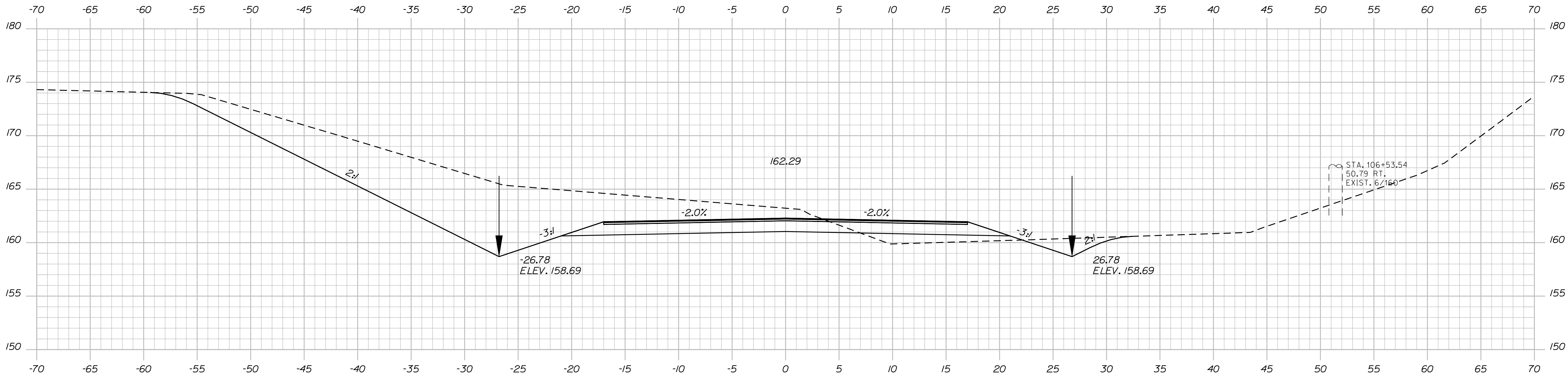
Date:8/31/2010

Username: richard.nimon

Filename: ... \050_Xsect_Detour_106-50_008.dgn Division: BRIDGE



107+00.00



106+50.00

STATE OF MAINE	
DEPARTMENT OF TRANSPORTATION	
015622.00	
BRIDGE NO. 2976	PIN 15622.00
BRIDGE PLANS	

PROJ. MANAGER	D. Anderson	BY	DATE
DESIGN-DETAILED	M. WIGHT	R.J. NIMON	OCT 2009
CHECKED-REVIEWED	SIGNATURE		
DESIGN-DETAILED	P.E. NUMBER		
DESIGNS DET AILED	DATE		
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

MCCR CROSSING BRIDGE	
MAINE CENTRAL RAILROAD	
PENOBSCOT COUNTY	
CARMEL	
DETOUR CROSS SECTIONS	

SHEET NUMBER
50
OF 67

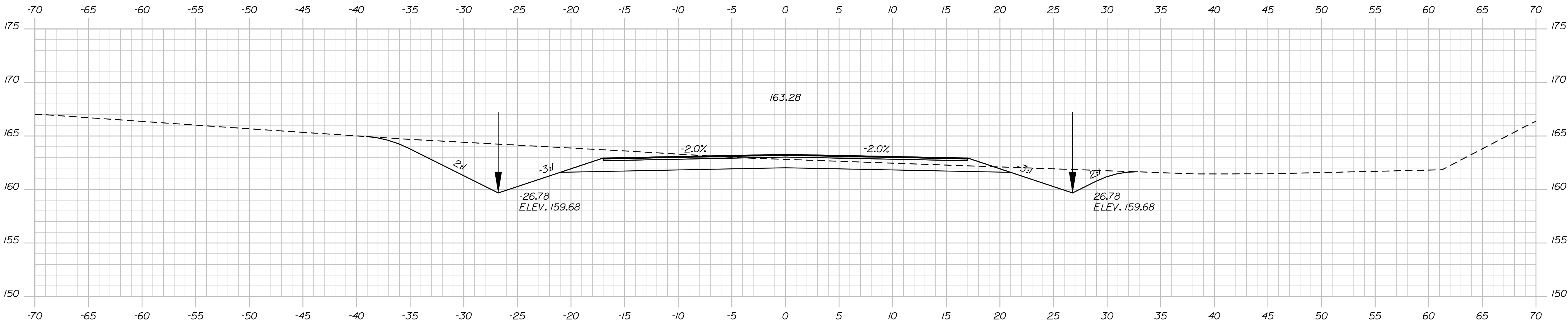
Sta. 106+50.00 to Sta. 107+00.00

Date:8/31/2010

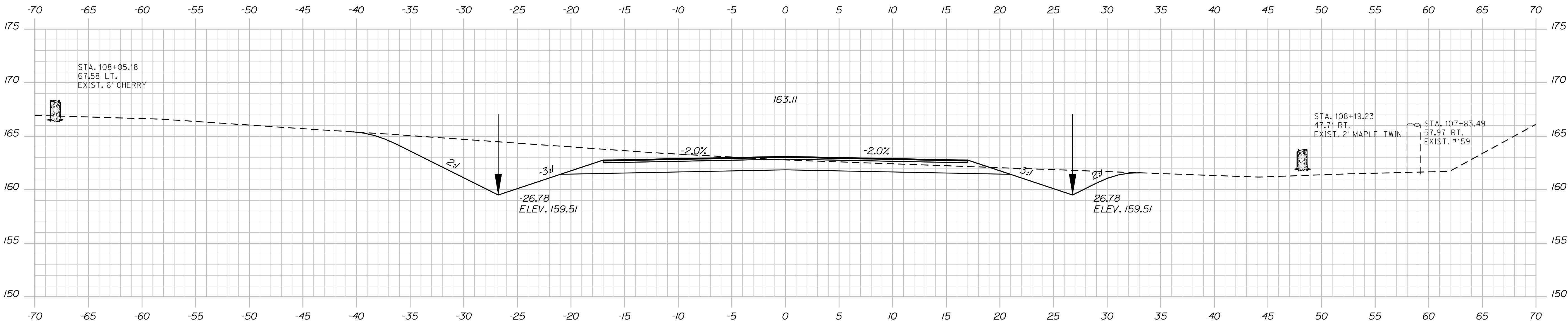
Username: richard.nimon

Division: BRIDGE

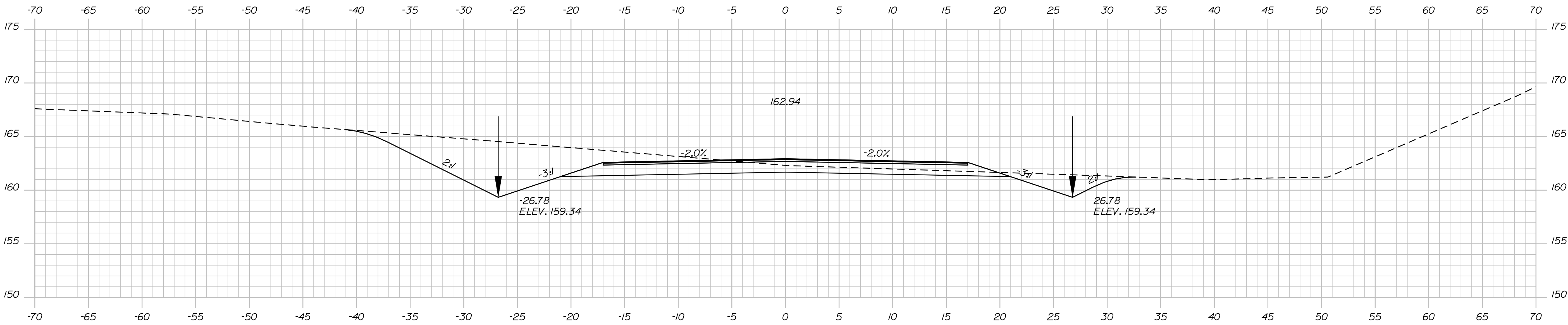
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108+50.00



108+00.00



107+50.00

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	015622.00	
	PIN	15622.00
	BRIDGE NO. 2976	BRIDGE PLANS

PROJ. MANAGER	BY	DATE
D. Anderson	R.J. NIMON	OCT 2009
CHECKED-REVIEWED	M. WIGHT	
DESIGN-DETAILED		
DESIGN-DETAILED		
REVISIONS 1		
REVISIONS 2		
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FIELD CHANGES		

MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY	DETOUR CROSS SECTIONS

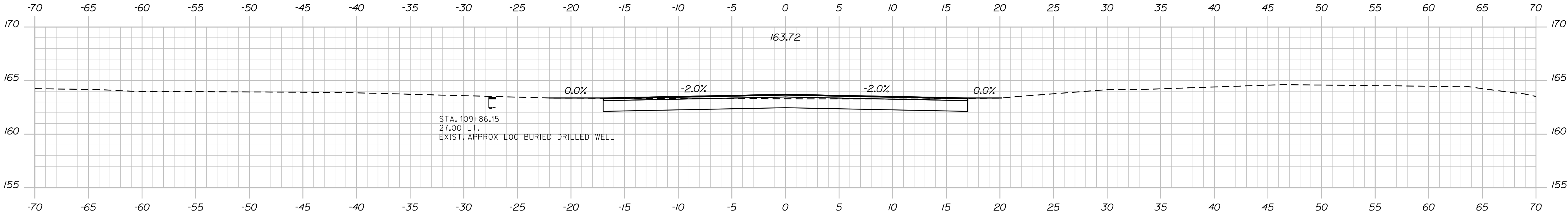
SHEET NUMBER
51
OF 67

Date:8/31/2010

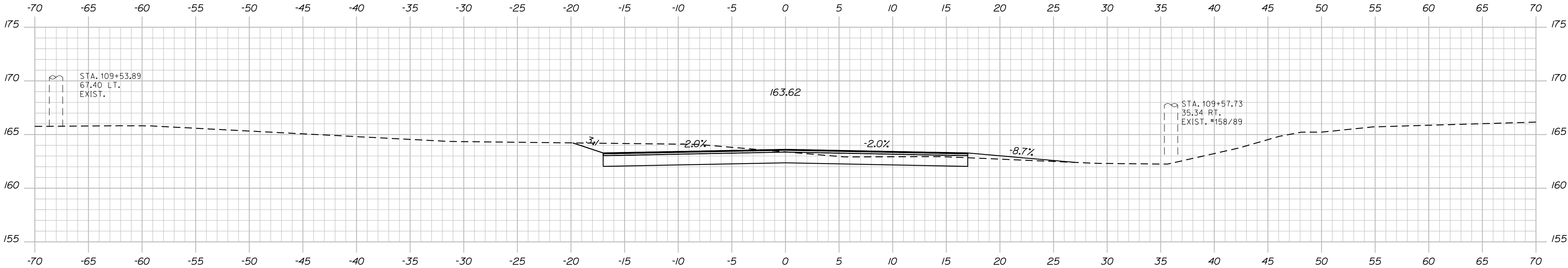
Username: richard.nimon

Division: BRIDGE

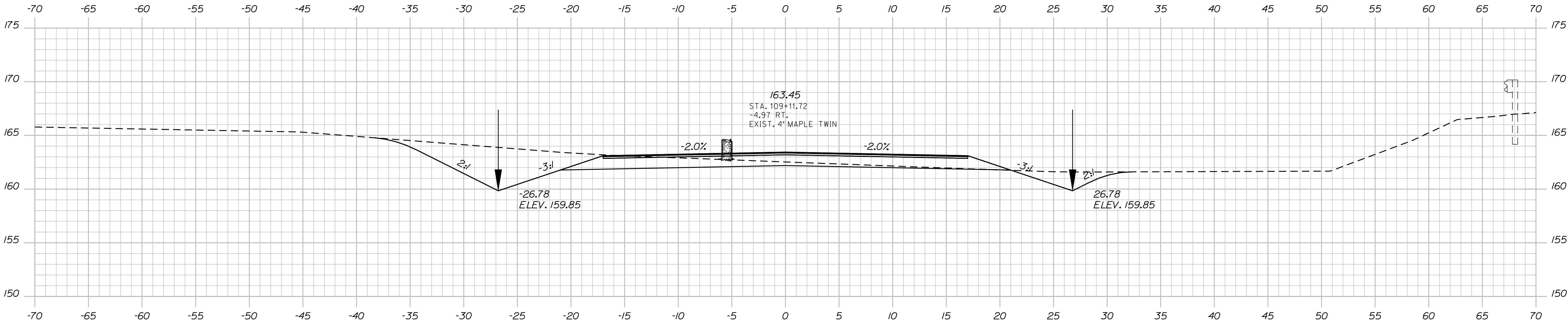
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110+00.00



109+50.00



109+00.00

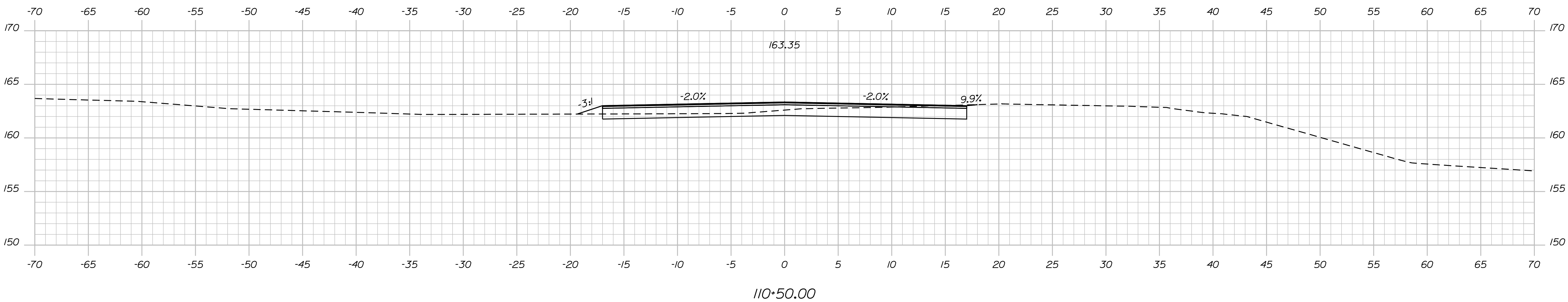
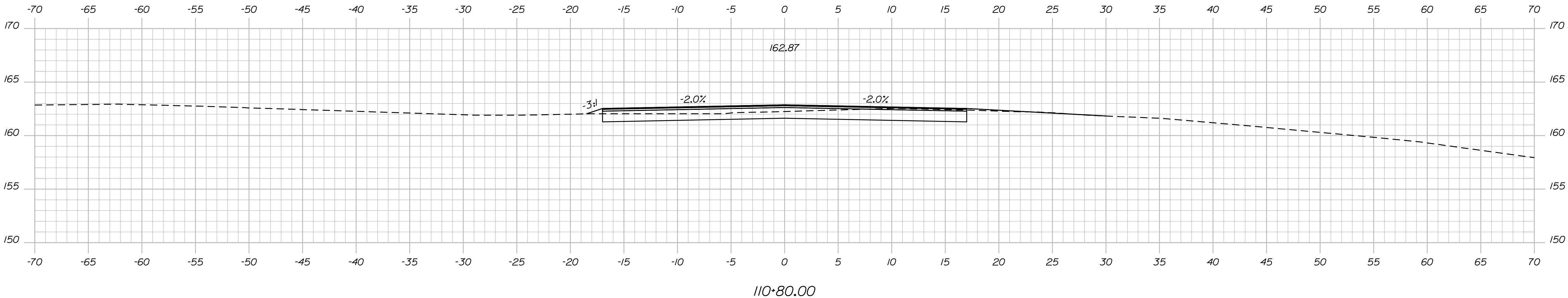
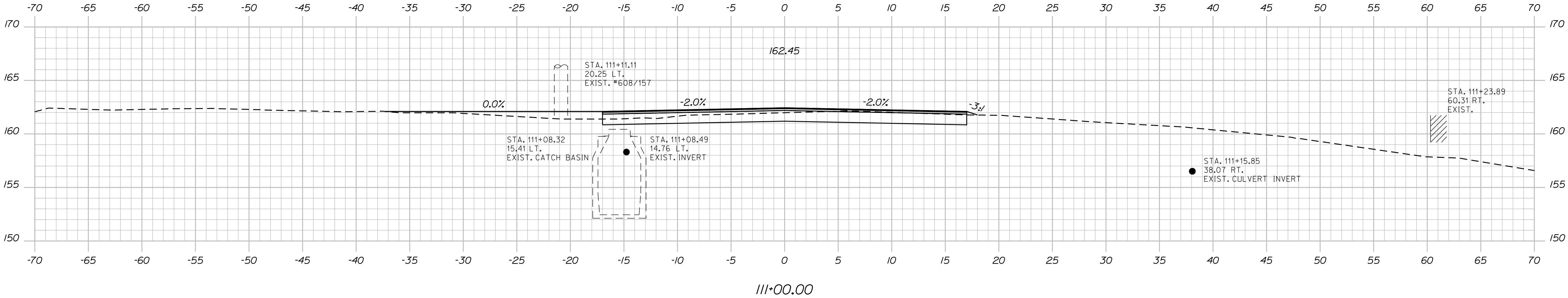
STATE OF MAINE		DEPARTMENT OF TRANSPORTATION	
015622.00		PIN 15622.00	
BRIDGE NO. 2876		BRIDGE PLANS	
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MAINE CENTRAL RAILROAD		52	
CARMEL		OF 67	
PENOBSCOT COUNTY		DETOUR CROSS SECTIONS	
PROJ. MANAGER	D. Anderson	BY	R. J. NIMON
CHECKED-REVIEWED	M. WIGHT	DATE	OCT 2009
DESIGN-DETAILED		SIGNATURE	
REVISIONS 1		P.E. NUMBER	
REVISIONS 2		DATE	
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

Date:8/31/2010

Username: richard.nimon

Division: BRIDGE

Filename: ... \0533_xsect_Detour_110+50_011.dgn



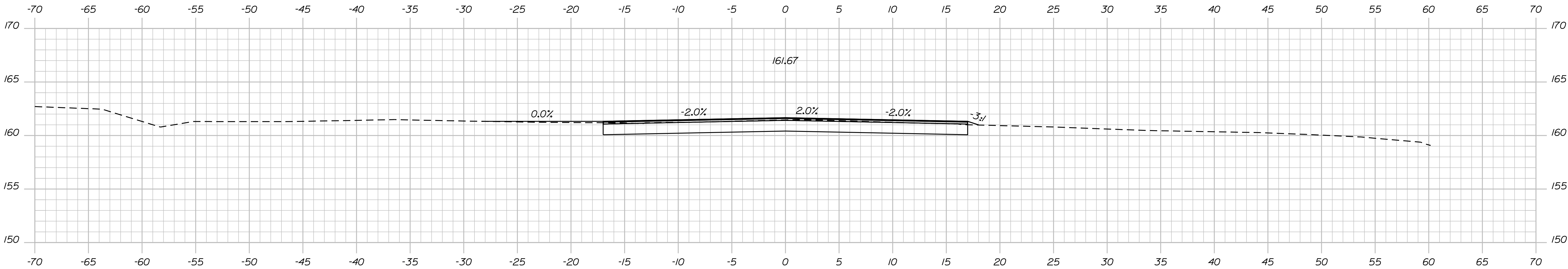
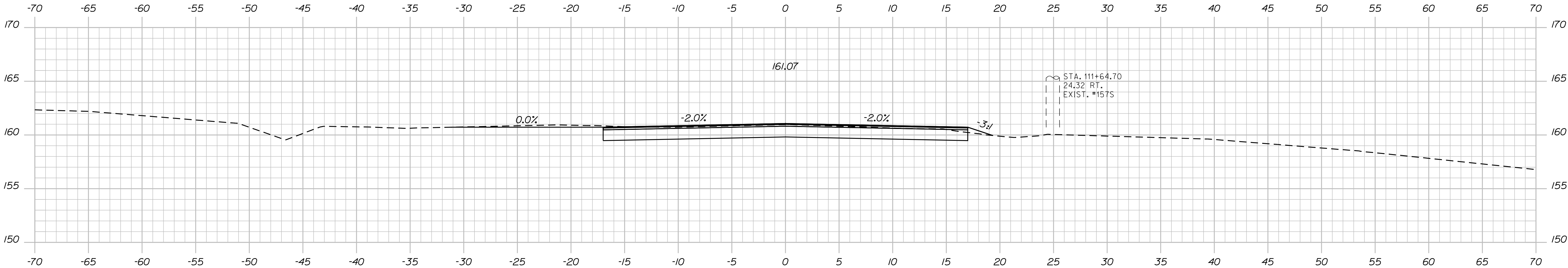
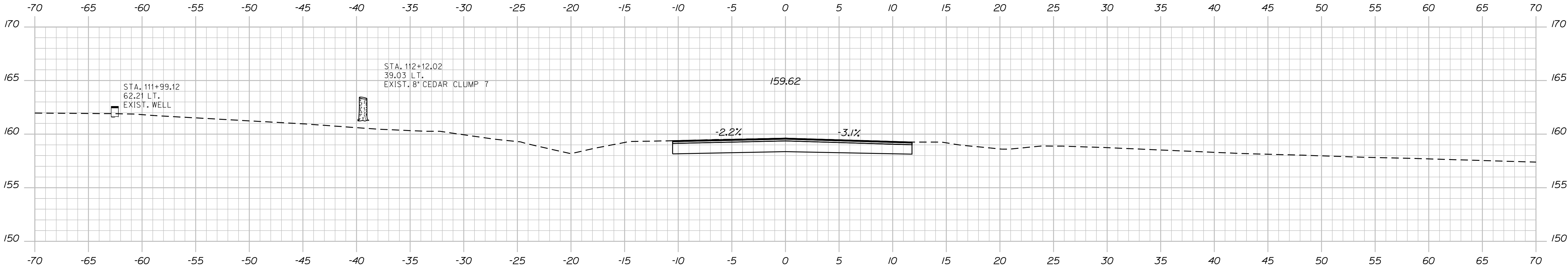
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53		OF 67		SIGNATURE		P.E. NUMBER		DATE		FIELD CHANGES	
PROJ. MANAGER		BY		DATE		DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED	
D. Anderson		R.J. Nimon		OCT 2009		M. Wight		M. Wight		M. Wight	
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		REVISIONS 5		REVISIONS 6	
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Date:8/31/2010

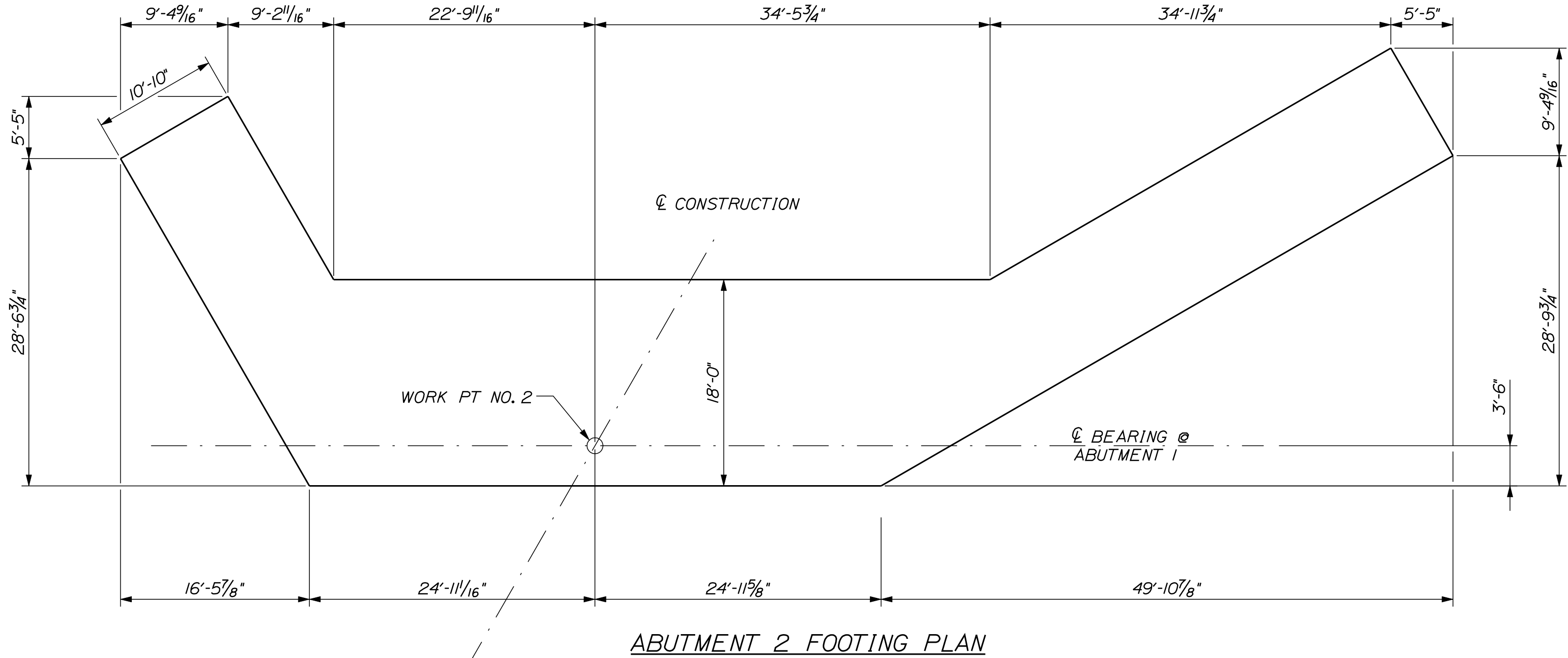
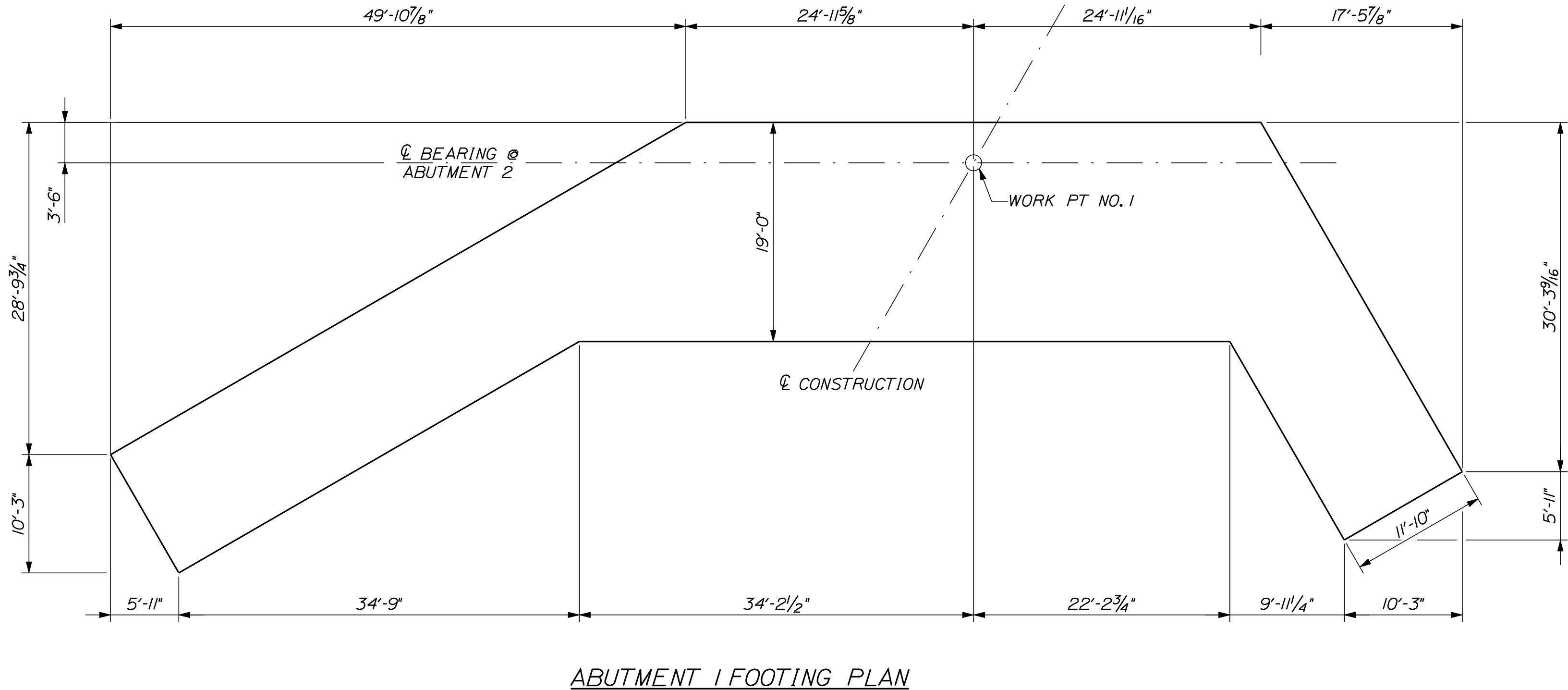
Username: richard.nimon

Division: BRIDGE

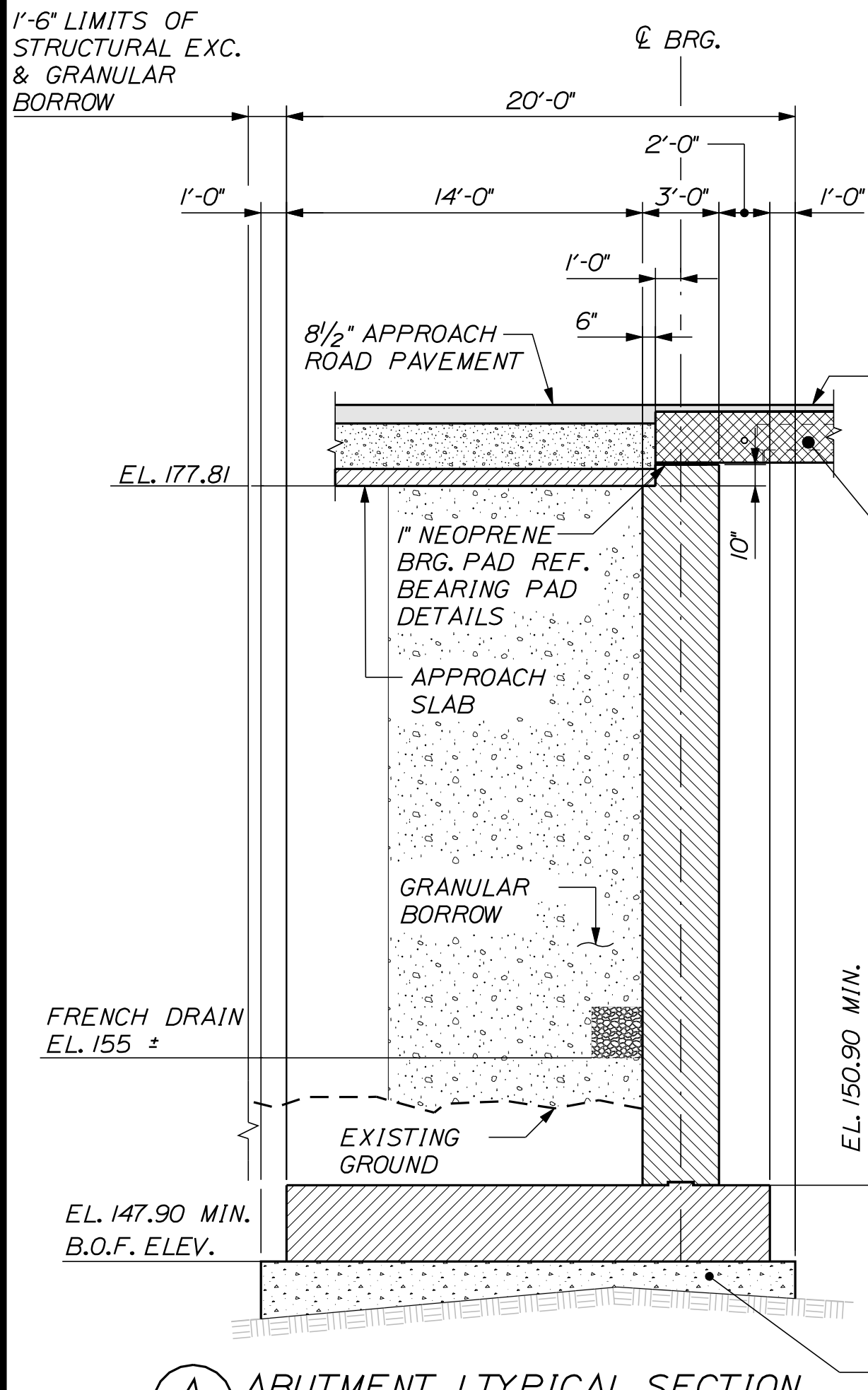
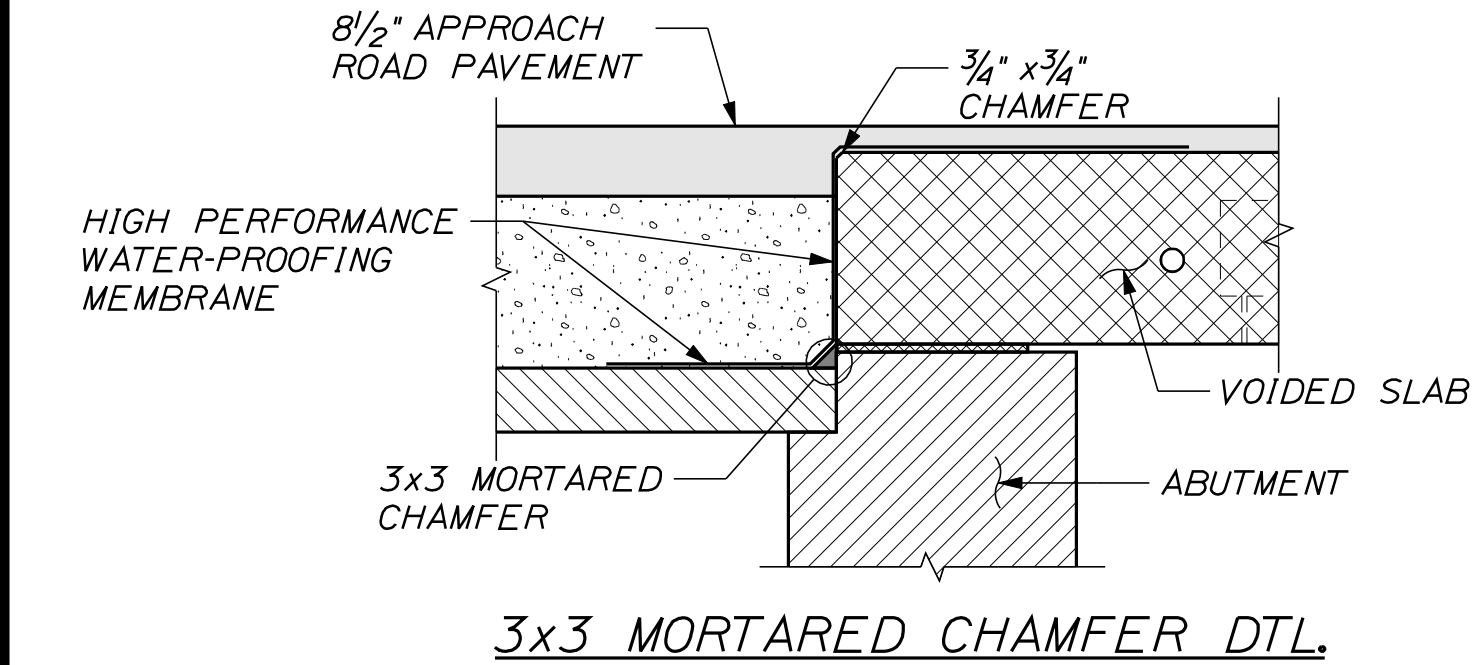
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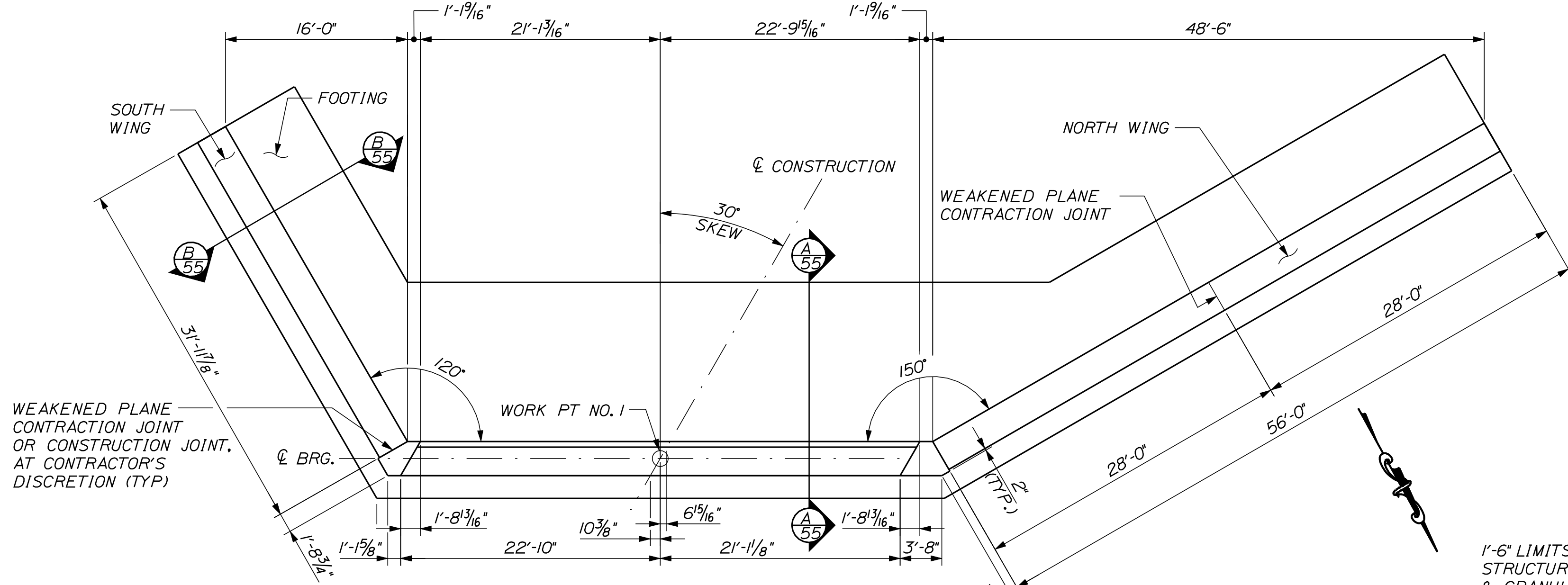
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MCCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY DETOUR CROSS SECTIONS						PROJ. MANAGER	D. Anderson	BY	R.J. Nimon	DATE	OCT 2009
						CHECKED-REVIEWED	M. WIGHT				SIGNATURE
						DESIGN-DETAILED					P.E. NUMBER
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REVISIONS 4											
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SHEET NUMBER						54					
						OF 67					



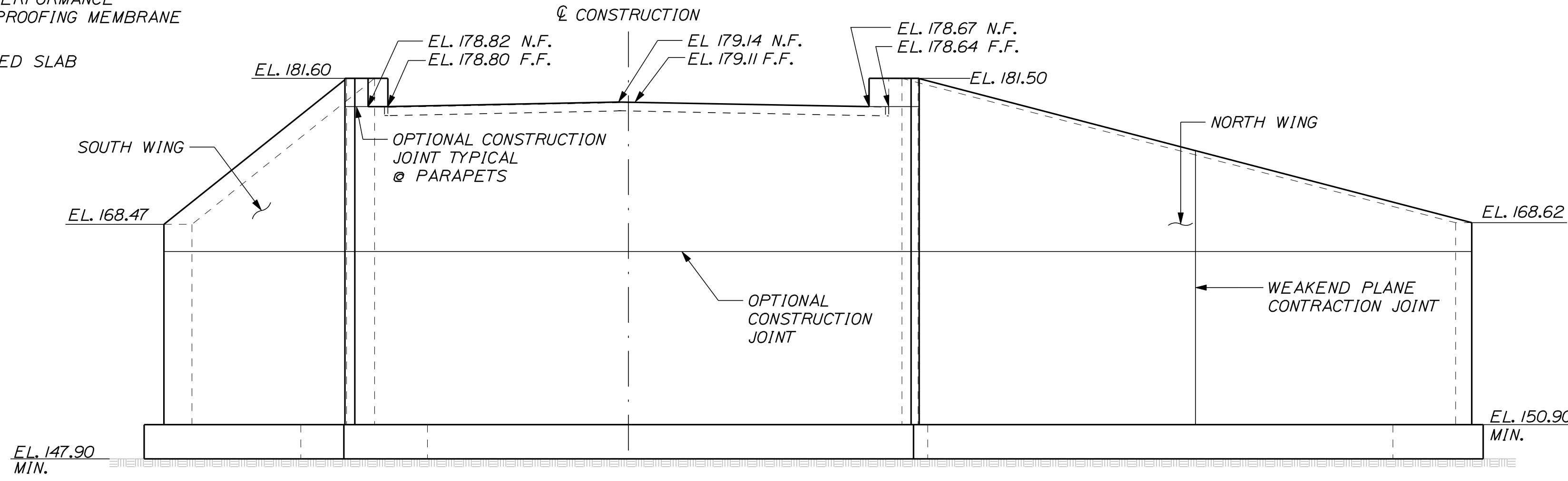
MCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY	STATE OF MAINE DEPARTMENT OF TRANSPORTATION			
	015622.00			
	BRIDGE NO. 2976 PIN 15622.00			
FOOTING DIMENSION DETAILS	SHEET NUMBER		BRIDGE PLANS	
	55		OF 67	



A
55
ABUTMENT I TYPICAL SECTION



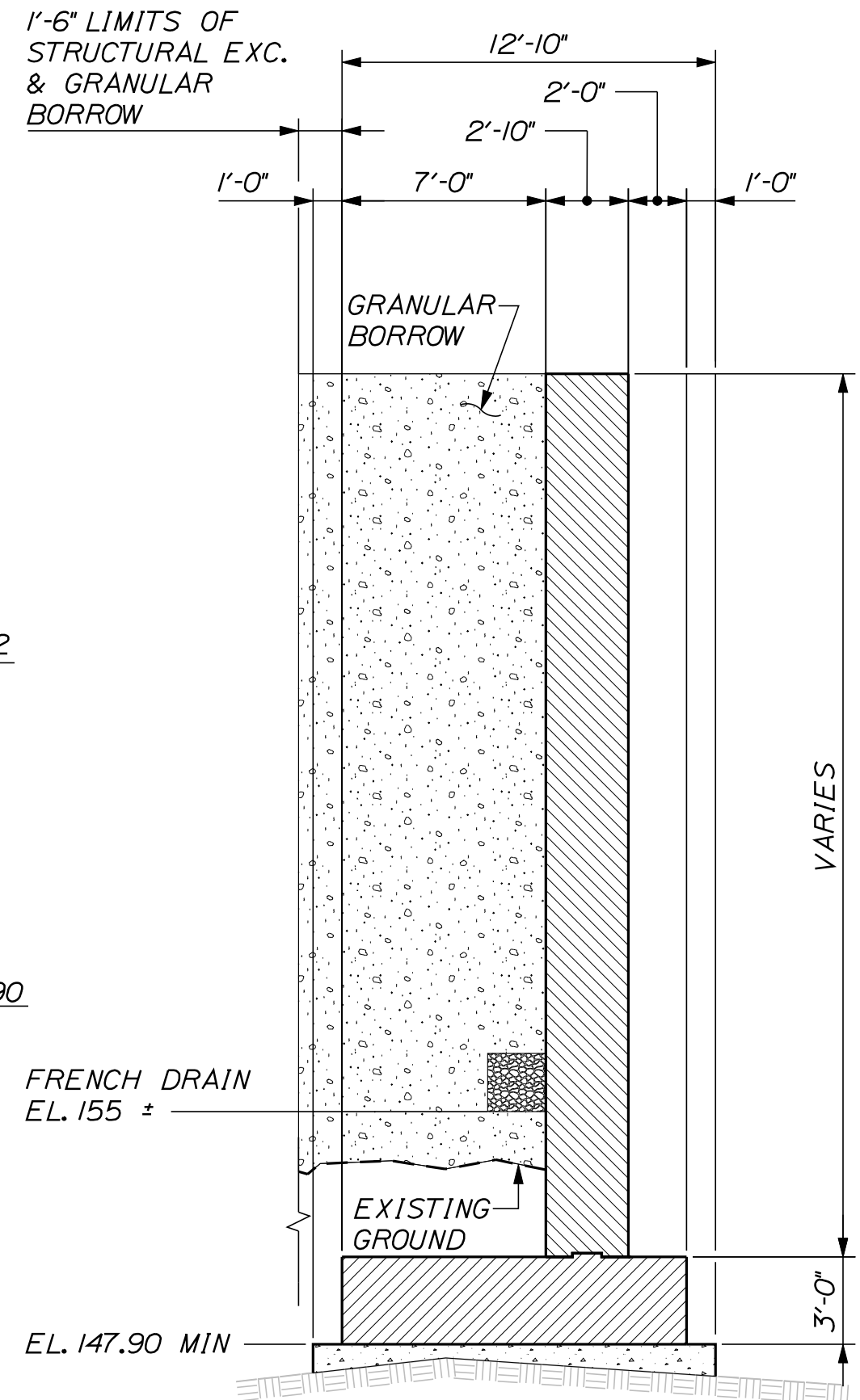
ABUTMENT I PLAN



ABUTMENT I ELEVATION
(Fill Concrete Not Shown)

ABUTMENT NOTES

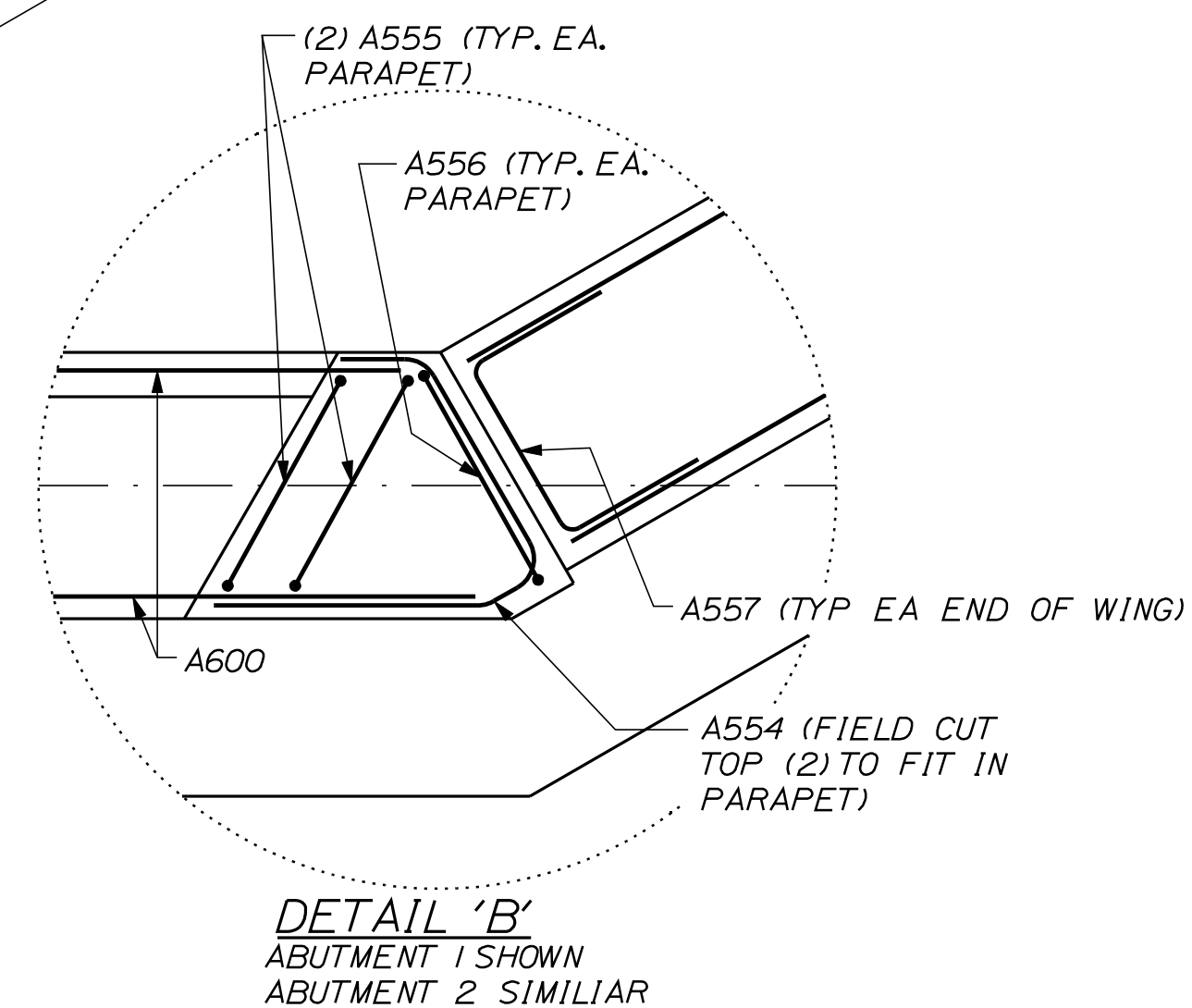
1. Reinforcing Steel shall have 2" cover in the Walls and 3" cover in the Footings unless otherwise noted.
2. Cover Joints in accordance with Standard Detail 502(01) where Waterstops are not required.
3. Place 4" diameter Drains in Breastwall and Wings at 10' maximum spacing. Exact location to be determined by the Resident.
4. Construct French Drains behind the Abutments and Wings in accordance with Standard Specification Section 512, French Drains.
5. Structural Earth Excavation, Abutments and Retaining Walls will be required to bedrock, cleaning bedrock of loose friable material as required will be considered incidental to Structural Earth Excavation, use of equipment other than standard excavation equipment for this will not be required.
6. Abutments, Wings, and their Footings shall be backfilled with Granular Borrow. Pay limits will be the Structural Excavation Limits in cut areas and a vertical plane located 10' behind the Walls in fill areas.
7. Maximum calculated footing pressure is 7.08 tons/ft²
8. Fill Concrete may be placed in a thickness up to 3' should bedrock elevations be below those anticipated here. Contact Designer if variable bedrock depth exceeds 3' below the bottom of Footing elevation as shown on these plans.
9. Bedrock elevations are expected to vary and the elevation of the top of the footing may be raised to accommodate bedrock elevations. Vertical reinforcing bars within the top of the breastwall may be cut to accommodate a higher constructed footing elevation. Modification of reinforcing steel is expected to be required to accommodate ledge elevations and payment for such modifications shall be considered incidental to related contract items, no separate payment shall be made.
10. Abutment concrete or Fill Concrete shall be placed on bedrock cleaned of all loose material and soil. Where bedrock slope exceeds 6h:1v the bedrock surface shall be benched to create level steps or be made completely level, as directed in the field by the Engineer. The Bedrock bearing surface beneath the near face of the footing shall be approximately level for 3' minimum as measured perpendicular to the face of the wall.

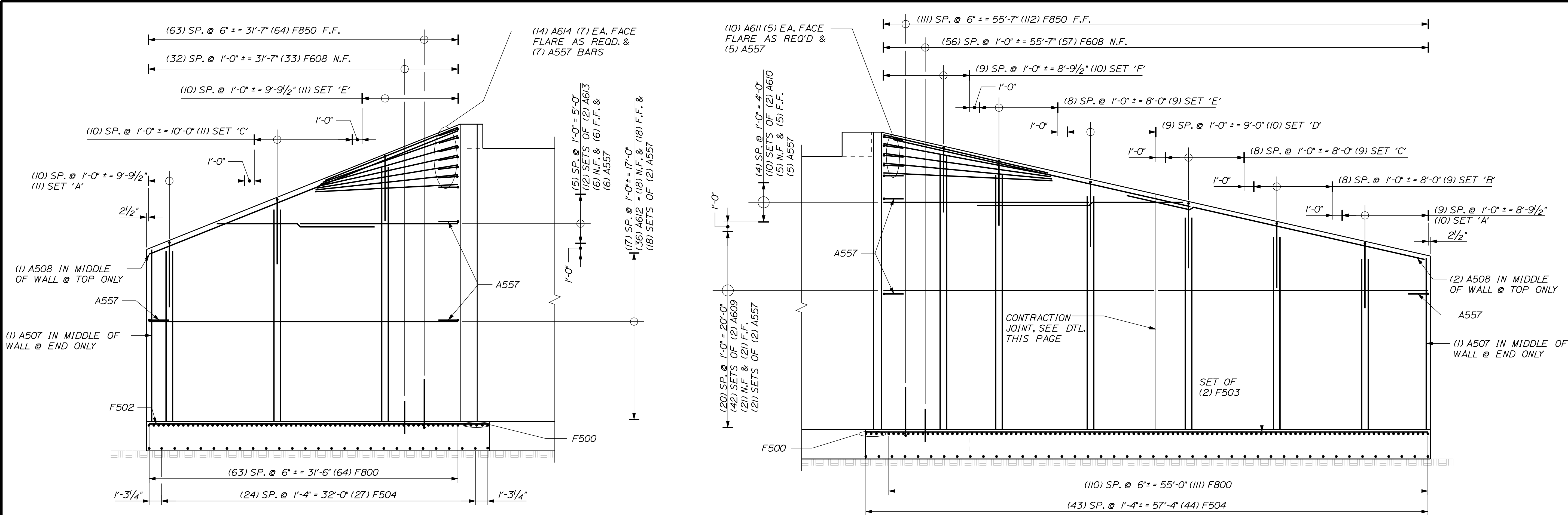


B
55
TYPICAL ABUTMENT I WING WALL SECTION

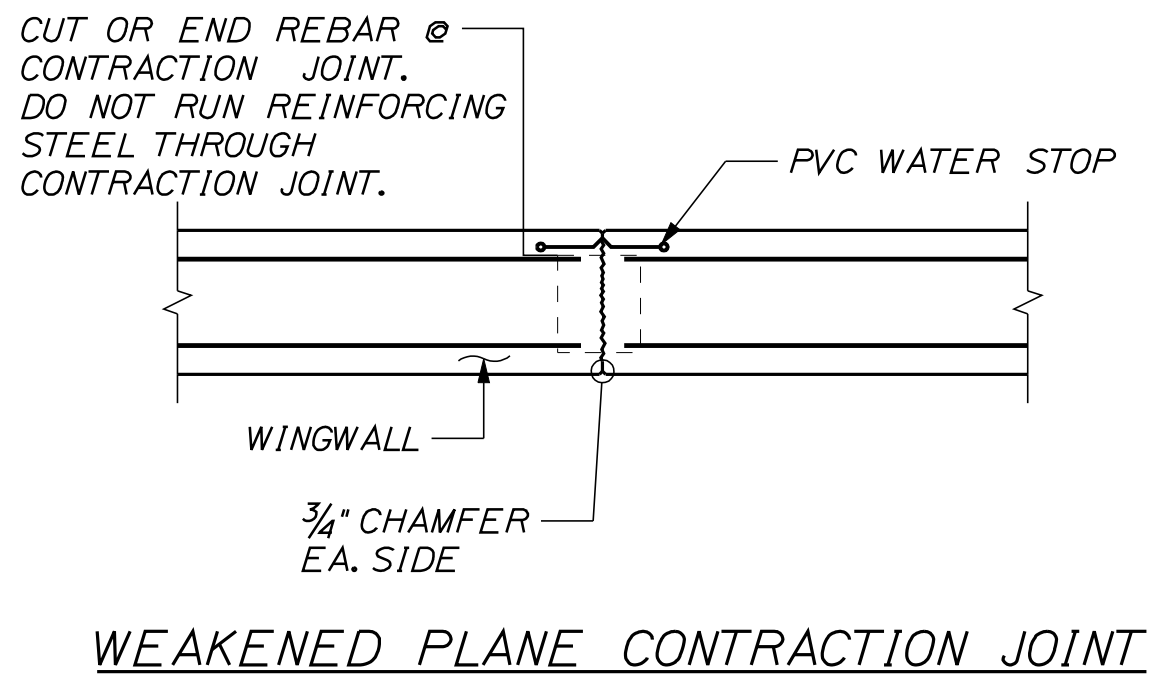
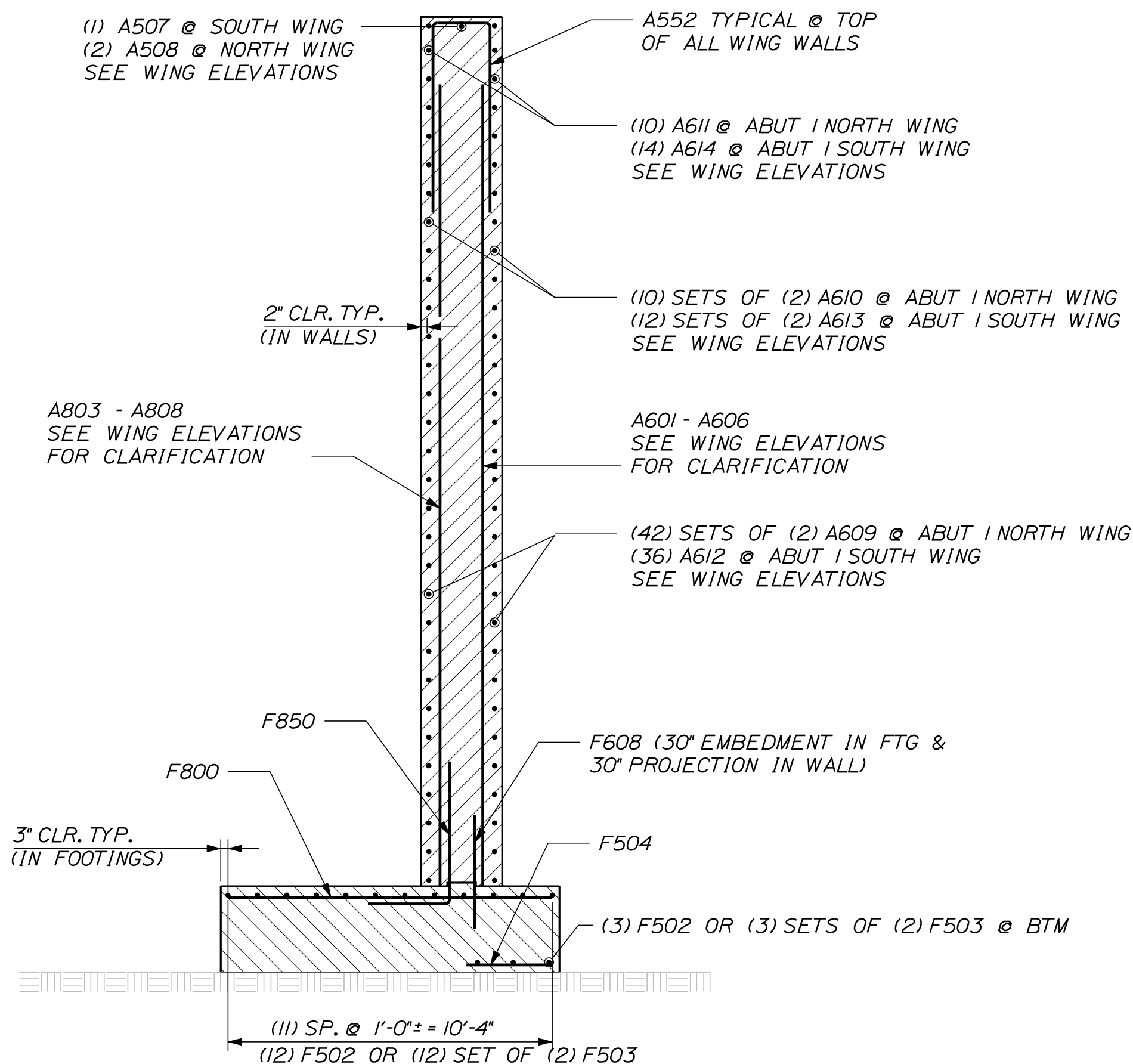
DATE	BY	PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGNS-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
Jan 2010	JH	D. Anderson	LOCK	ETC						
Feb 2010	ETC									
SIGNATURE										
P.E. NUMBER										
DATE										





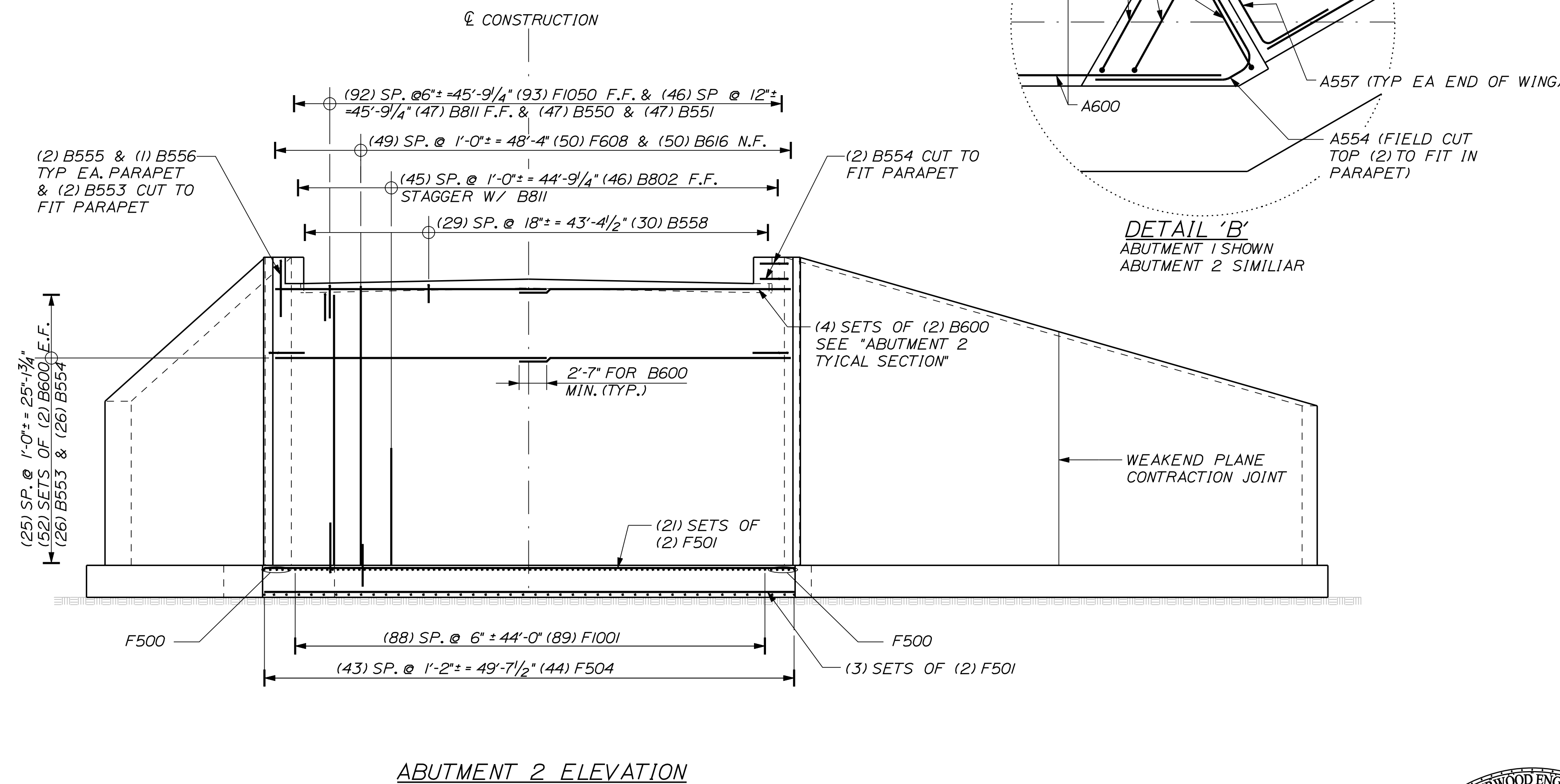


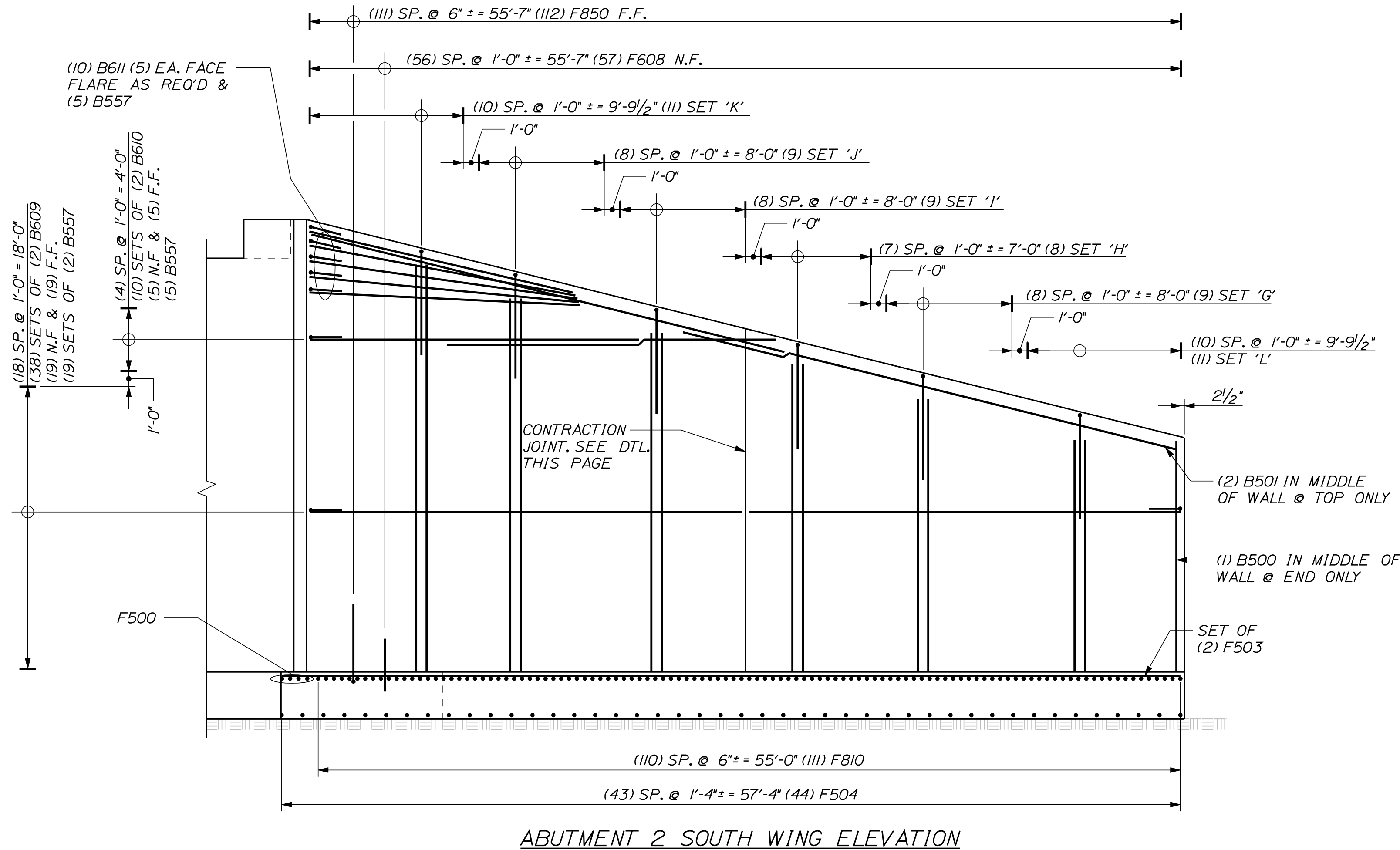
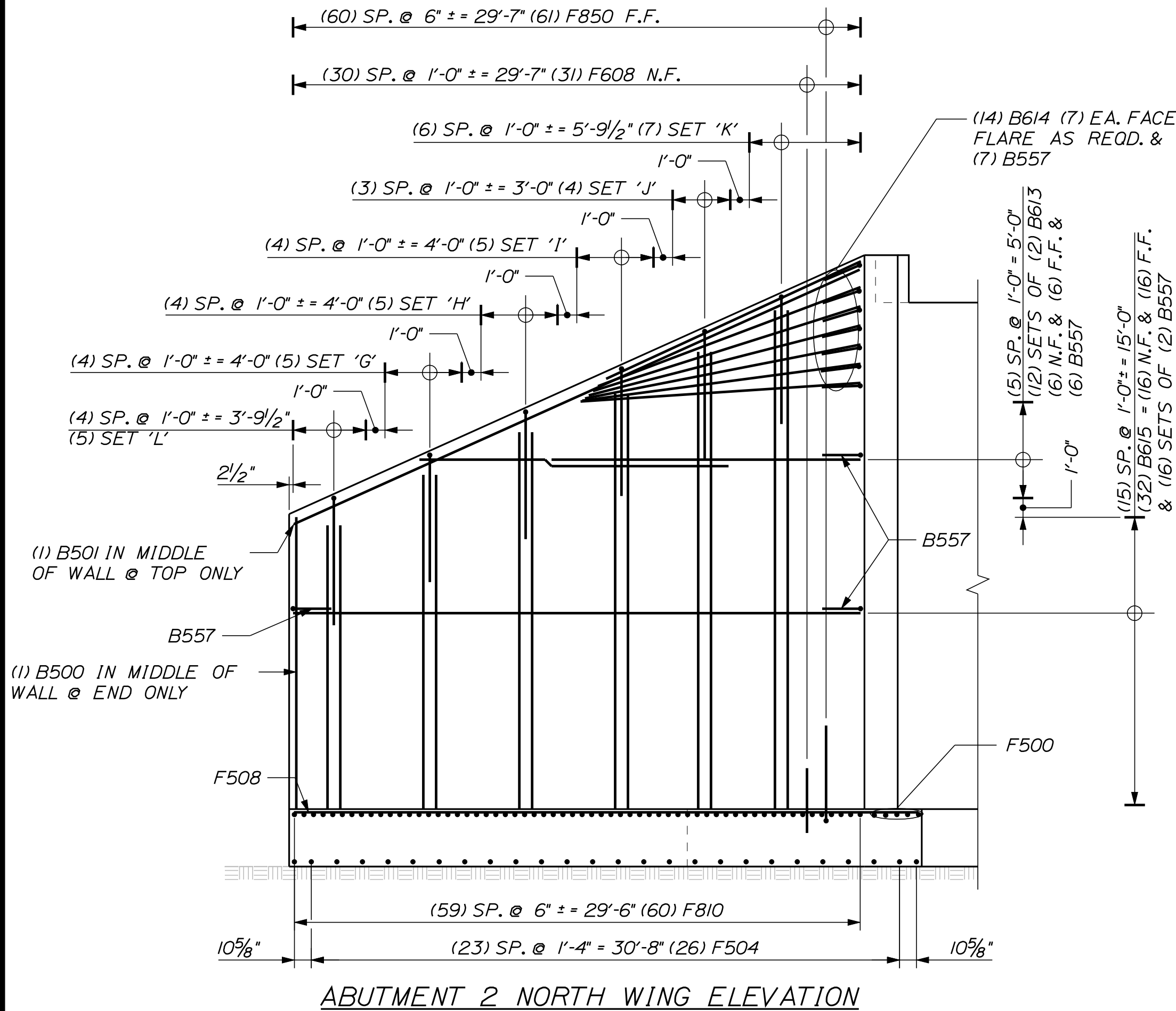
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SET B = (1) A602 N.F., (1) A804 F.F., & (1) A552
SET C = (1) A603 N.F., (1) A805 F.F., & (1) A552
SET D = (1) A604 N.F., (1) A806 F.F., & (1) A552
SET E = (1) A605 N.F., (1) A807 F.F., & (1) A552
SET F = (1) A606 N.F., (1) A808 F.F., & (1) A552



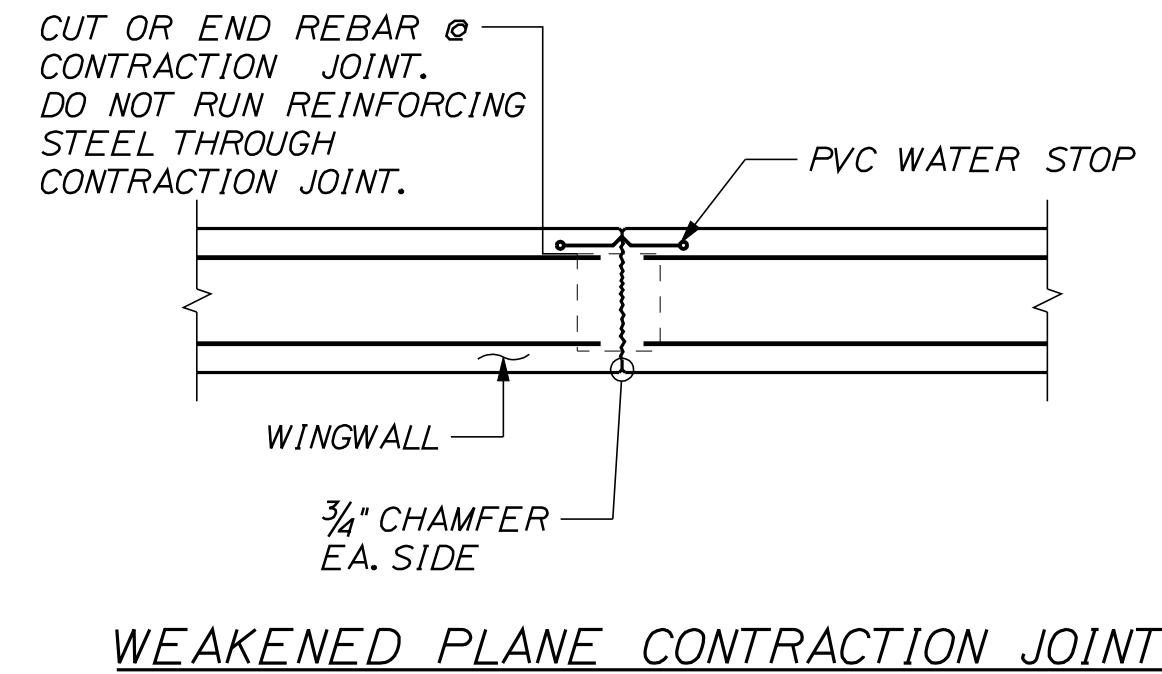
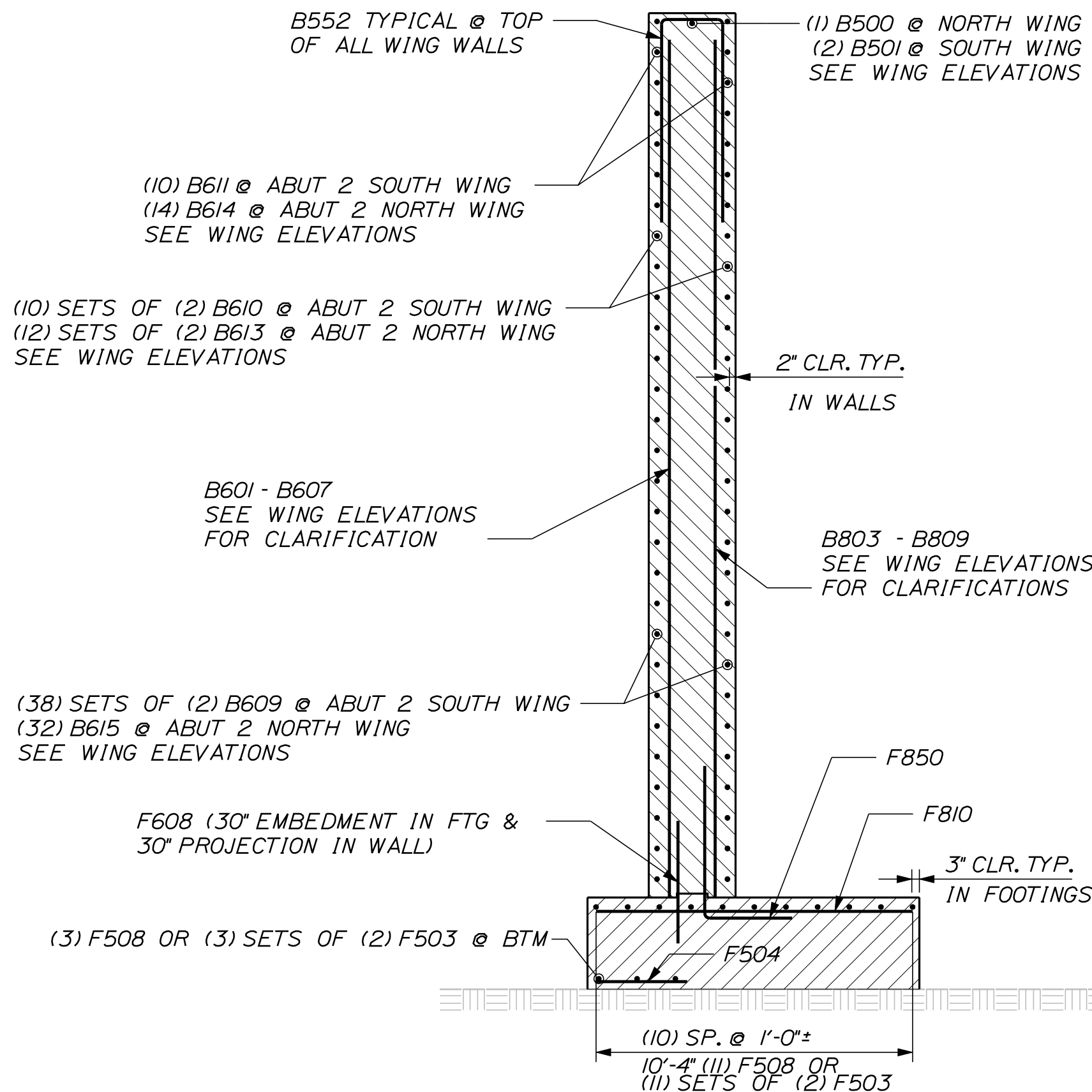
STATE OF MAINE DEPARTMENT OF TRANSPORTATION				015622.00				PIN 15622.00				BRIDGE NO. 2076				BRIDGE PLANS			
MCR CROSSING BRIDGE MAINE CENTRAL RAILROAD CARMEL PENOBSCOT COUNTY				ABUTMENT 1 REINFORCING				SHEET NUMBER				58				OF 67			
PROJ. MANAGER D. Anderson				DESIGN-DETAILED LOCK				DESIGN-DETAILED LOCK				DESIGN-DETAILED LOCK				DESIGN-DETAILED LOCK			
BY JH				DATE Jan 2010				BY ETC				DATE Feb 2010				BY ETC			
SIGNATURE				P.E. NUMBER				DATE				FIELD CHANGES				REVISIONS 1			
																REVISIONS 2			
																REVISIONS 3			
																REVISIONS 4			

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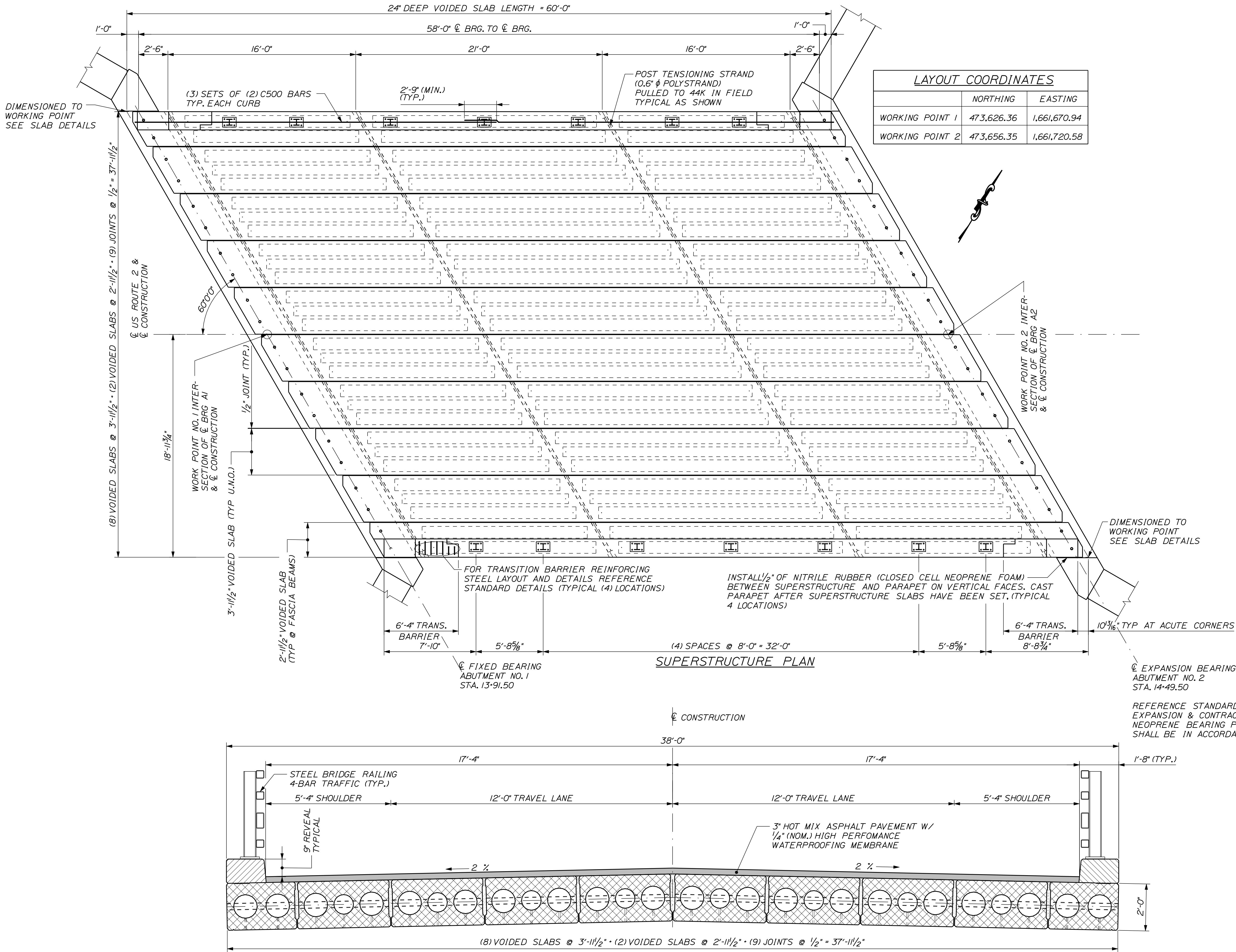


ABUTMENT 2 WING WALL SETS KEY
SET G = (1) B601 N.F., (1) B803 F.F., & (1) B552
SET H = (1) B602 N.F., (1) B804 F.F., & (1) B552
SET I = (1) B603 N.F., (1) B805 F.F., & (1) B552
SET J = (1) B604 N.F., (1) B806 F.F., & (1) B552
SET K = (1) B605 N.F., (1) B807 F.F., & (1) B552
SET L = (1) B607 N.F., (1) B809 F.F., & (1) B552



DATE	BY	PROJ. MANAGER	DESIGN-DETAILED	CHECKED-REVIEWED	DESIGN-DETAILED	REVISIONS 1	REVISIONS 2	REVISIONS 3	REVISIONS 4	FIELD CHANGES
Jan 2010	JH	D. Anderson	LOCK	ETC						
Feb 2010	ETC									
SIGNATURE										
P.E. NUMBER										
DATE										





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

015622.00

PIN 15622.00
BRIDGE NO. 2976

BRIDGE PLANS

MCR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL
PENOBSCOT COUNTY

SUPERSTRUCTURE DETAILS

PROJ. MANAGER
DESIGN-DETAILED
CHECKED-REVIEWED
DESIGNS-DETAILED
REVISIONS 1
REVISIONS 2
REVISIONS 3
REVISIONS 4
FIELD CHANGES

BY
JH
ETC

DATE
Jan 2010
Feb 2010

SIGNATURE

P.E. NUMBER

DATE

SHEET NUMBER

62

OF 67



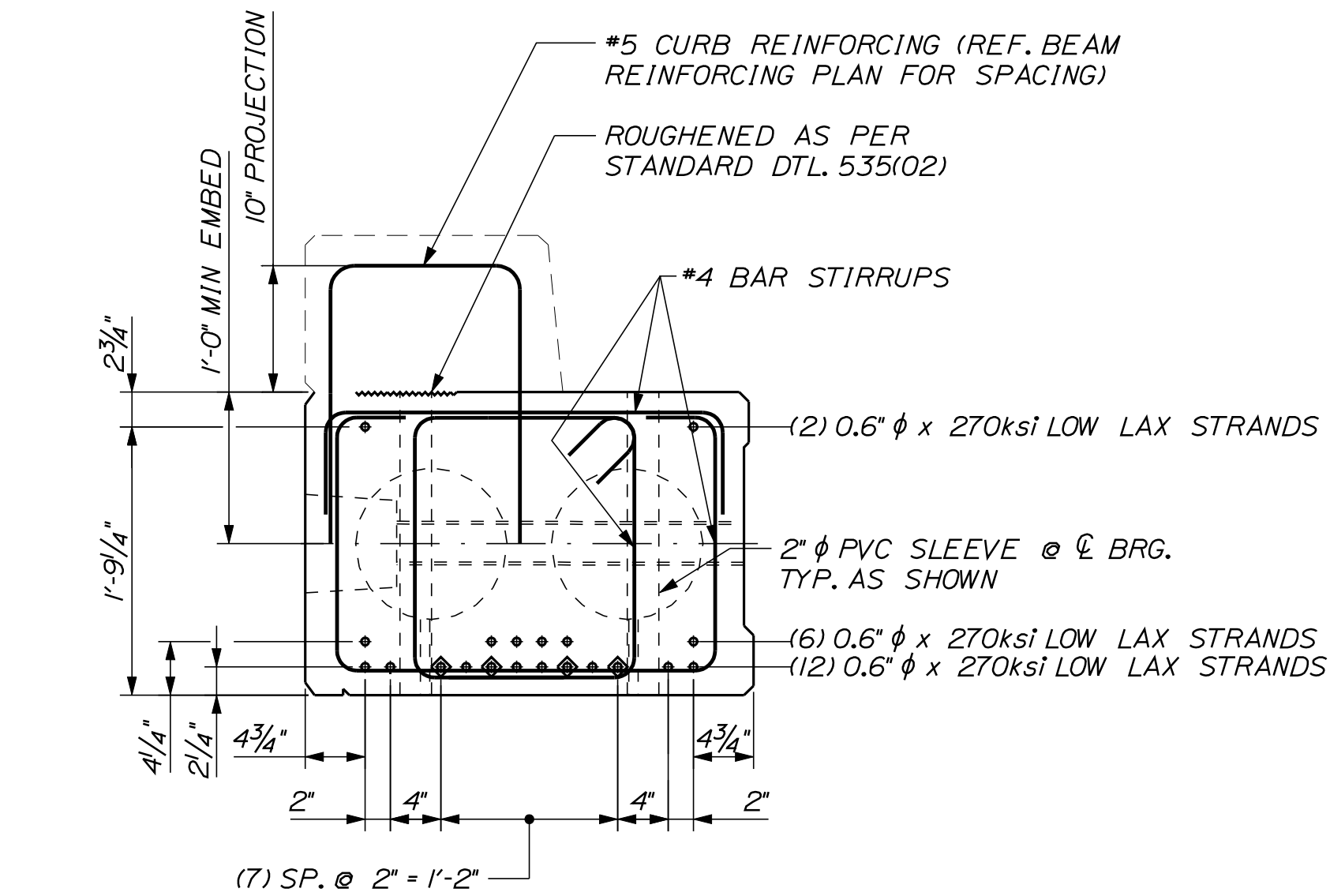
DETAIL 'A'

Date:8/31/2010

Username: richard.nimon

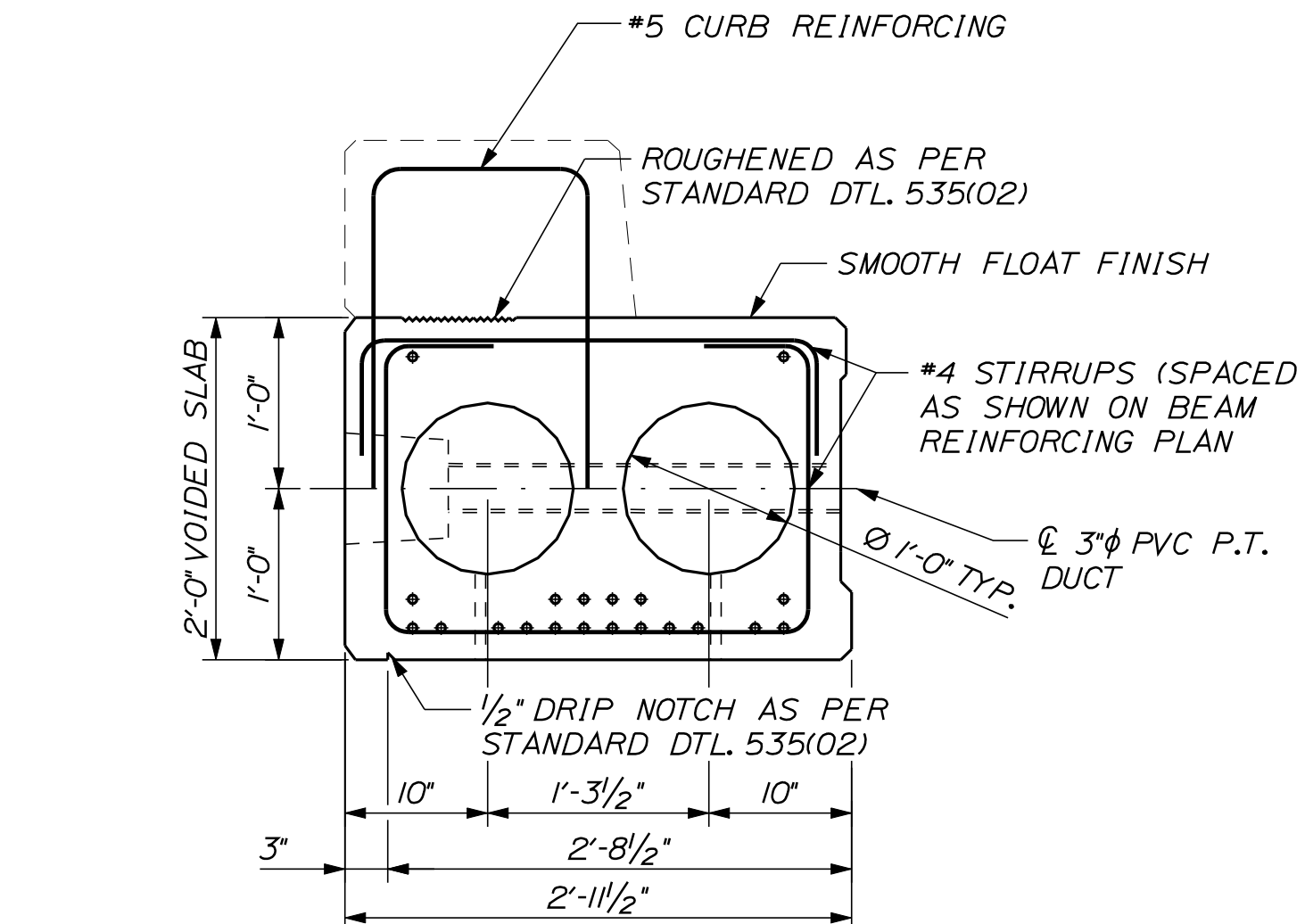
Division: BRIDGE

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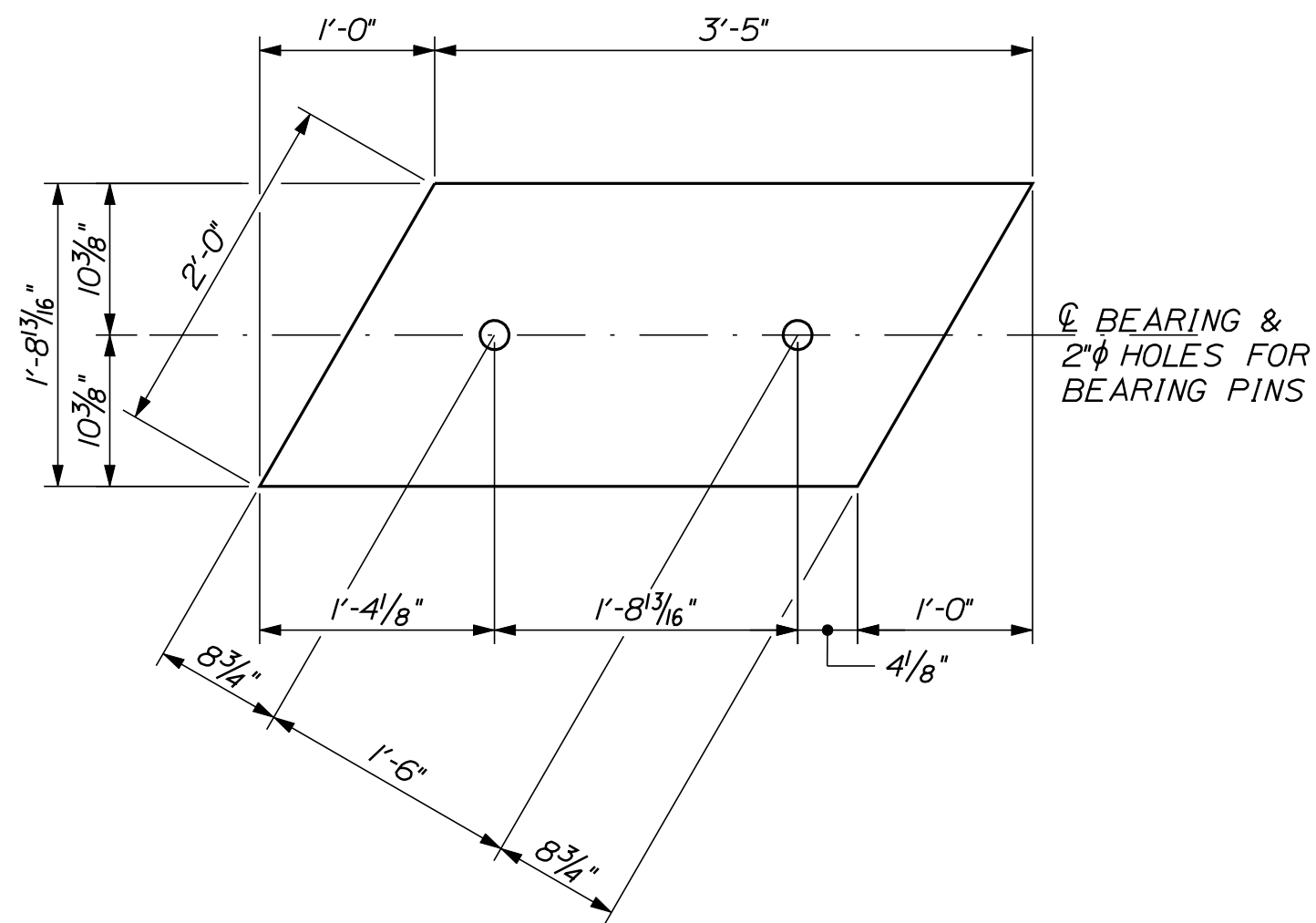


- * DENOTES 0.6" ϕ STRAIGHT STRAND
- ◆ DENOTES 0.6" ϕ STRAIGHT STRAND DEBONDED 5'-0"

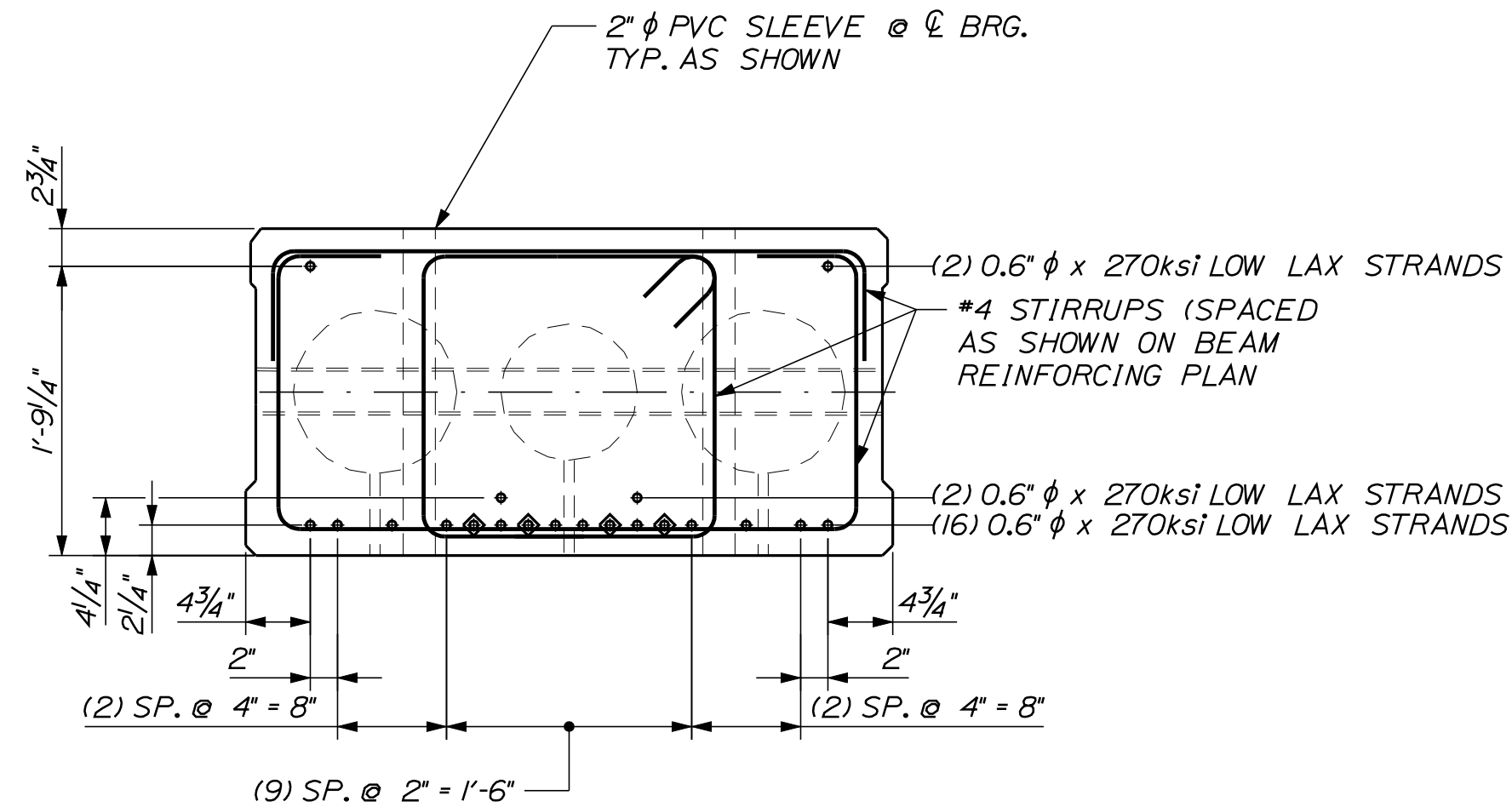
REINFORCING SECTION @ END BLOCK 3' VOIDED SLAB
(SET 'B' STIRRUP SET SHOWN SET 'A' STIRRUPS SIMILAR, ADJUSTED TO FIT ACUTE CORNER COPE)



REINFORCING SECTION @ MID SPAN 3' VOIDED SLAB

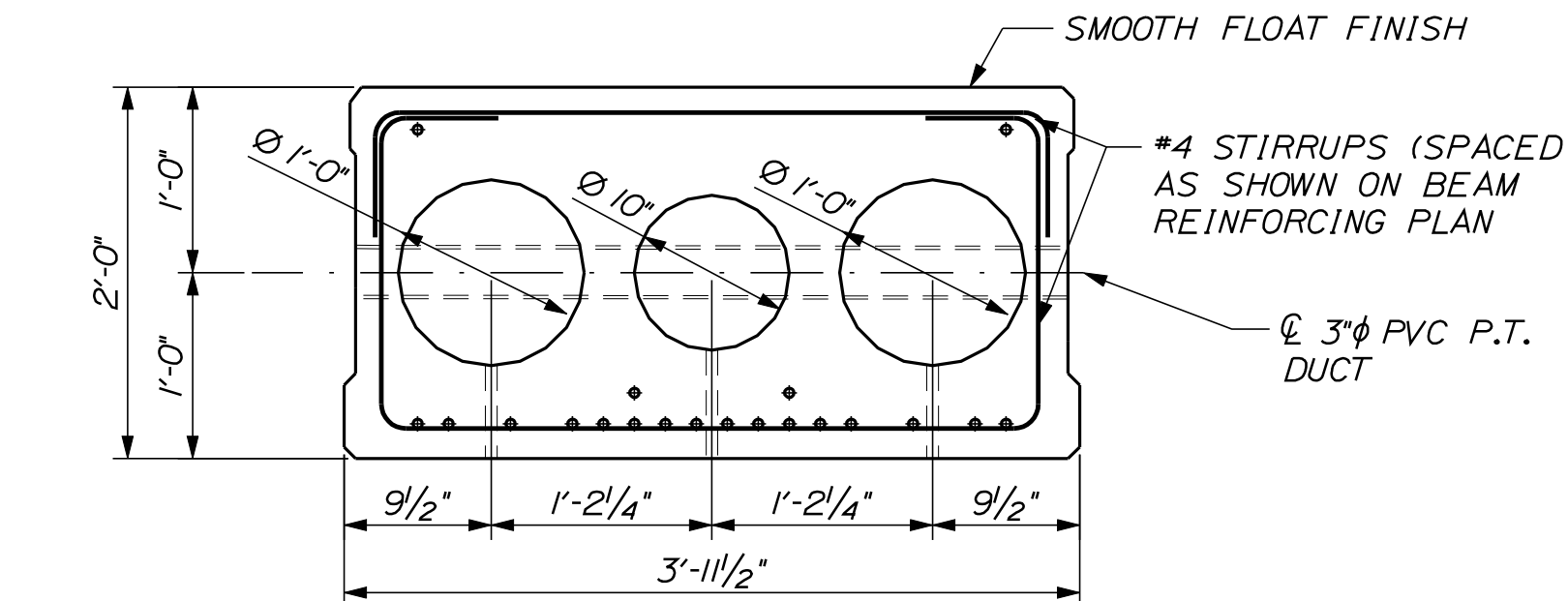


1" NEOPRENE BEARING PAD FOR FASCIA SLABS
(4) REQUIRED

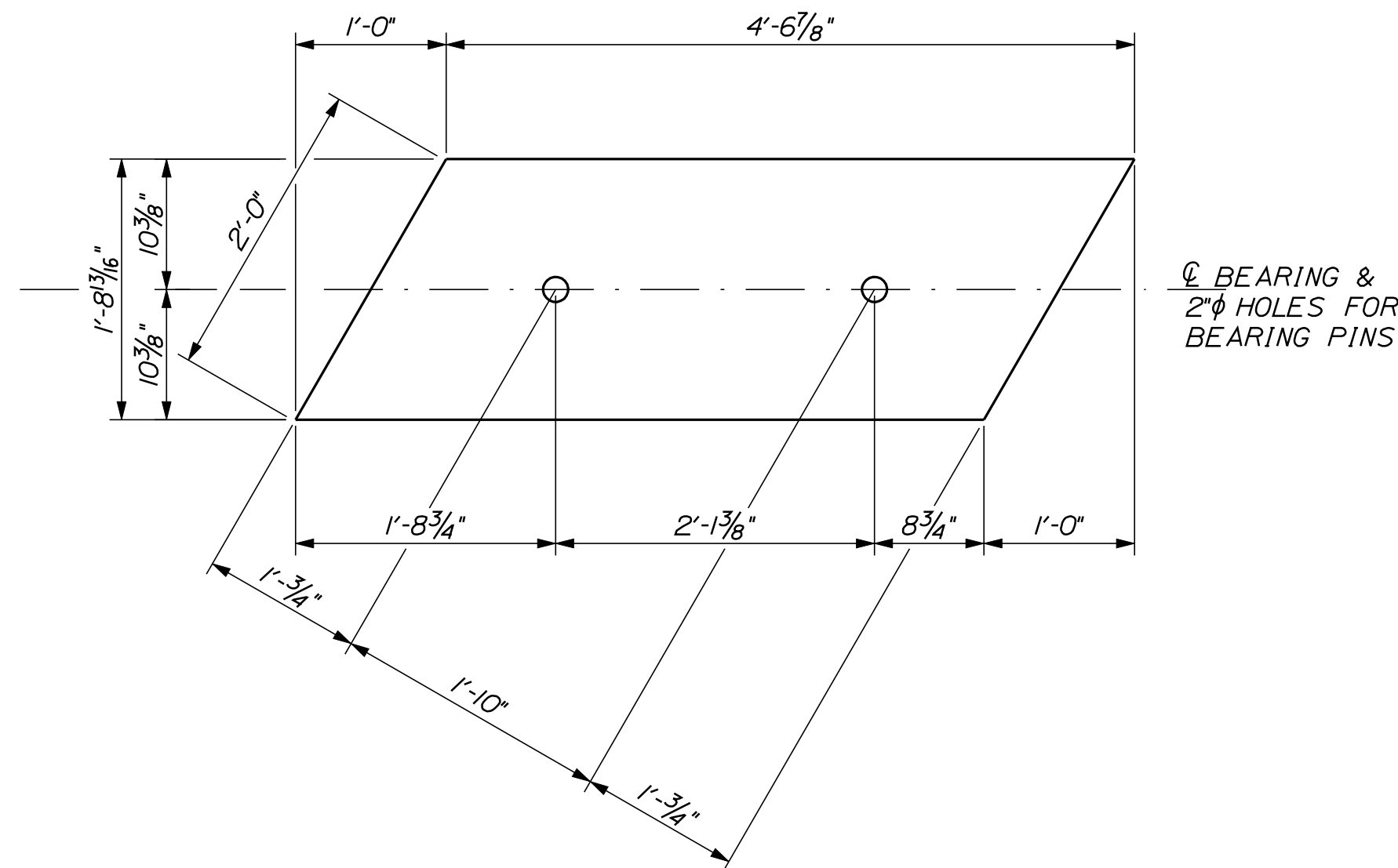


- * DENOTES 0.6" ϕ STRAIGHT STRAND
- ◆ DENOTES 0.6" ϕ STRAIGHT STRAND DEBONDED 5'-0"

REINFORCING SECTION @ END BLOCK 4' VOIDED SLAB
(SET 'D' STIRRUP SET SHOWN SET 'C' STIRRUPS SIMILAR, ADJUSTED TO FIT ACUTE CORNER COPE)



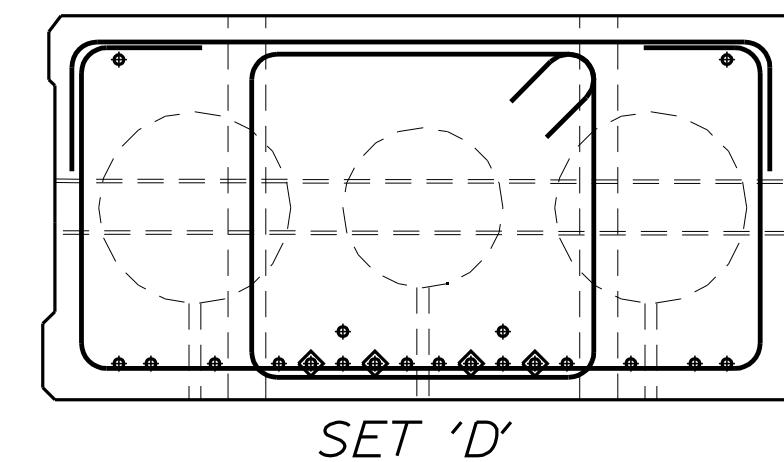
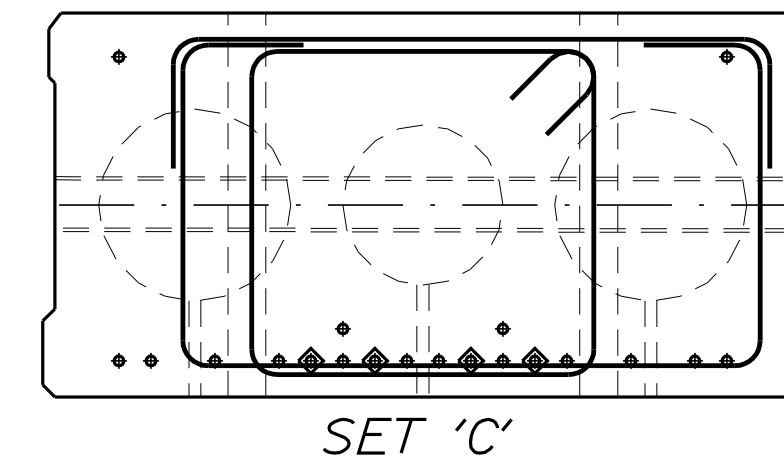
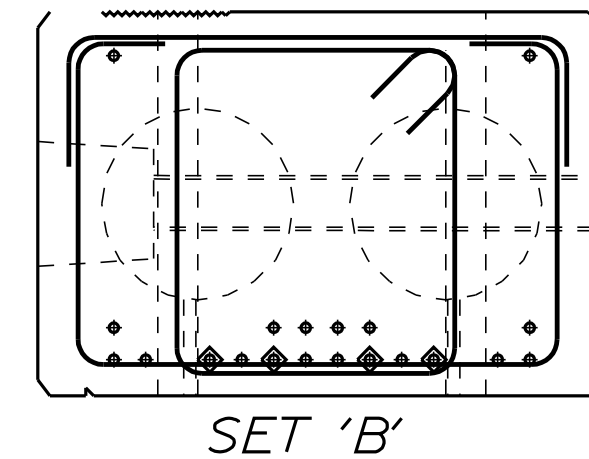
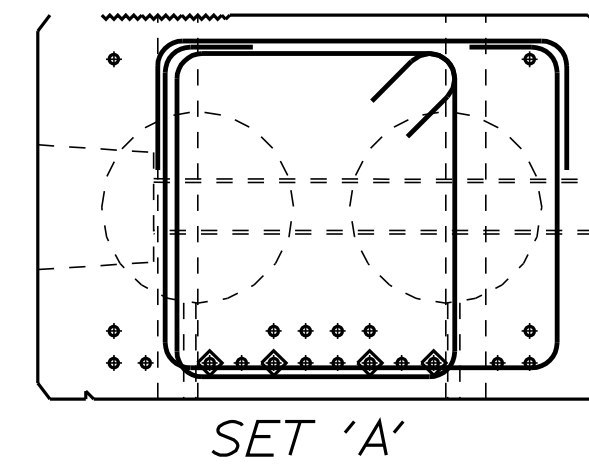
REINFORCING SECTION @ MID SPAN 4' VOIDED SLAB



1" NEOPRENE BEARING PAD FOR INTERIOR SLABS
(16) REQUIRED

PRECAST CONCRETE SUPERSTRUCTURE NOTES

- Initial Force = 44 kips per prestressing strand.
- The top surface of the prestressed beams shall be a smooth float finish to facilitate installation of waterproofing membrane directly to the top of the voided slab beams.
- The drilling of holes in the prestressed beams and the use of power actuated tools on the beams will not be permitted.
- Neoprene pads shall be either polychloroprene or natural polyisoprene of 50 \pm 5 Shore A durometer hardness, and shall conform to the requirements of Division 2, Section 18.2 of AASHTO Standard Specifications for Highway Bridges. Neoprene pads will not be paid for directly, but will be considered incidental to related Contract items. Neoprene pads are to be 1" thick as shown on this sheet.
- Install a 1" diameter nonmetallic void drain in the bottom of each void at both ends.
- Reinforcing steel shall have 2" minimum cover unless otherwise noted.
- Post Tensioning shall be covered by a seamless polypropylene sheath, with corrosion inhibiting grease between the strands and sheath, for the full length of the strand except at the anchorage location.
- Slight adjustment of reinforcing spacing to clear post tensioning ducts and anchorage blockouts is expected to be required.

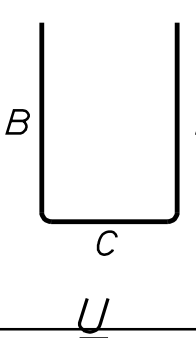
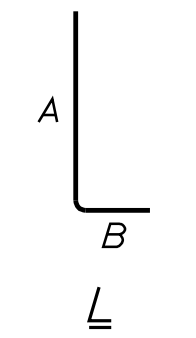


STATE OF MAINE		DEPARTMENT OF TRANSPORTATION		015622.00		PIN 15622.00		BRIDGE NO. 2076		BRIDGE PLANS	
MCR CROSSING BRIDGE		MAINE CENTRAL RAILROAD		CARMEL		PENOBSCOT COUNTY		VOIDED SLAB SECTIONS		SHEET NUMBER	
64		OF 67		DATE		P.E. NUMBER		SIGNATURE		DATE	
BY		DATE		DESIGN-DETAILED		CHECKED-REVIEWED		DESIGN-DETAILED		CHECKED-REVIEWED	
D. Anderson		J.H. ETC		J.H. ETC		J.H. ETC		J.H. ETC		J.H. ETC	
LOCK		JUN 2010		JUN 2010		JUN 2010		JUN 2010		JUN 2010	
E.T.C.		FEB 2010		FEB 2010		FEB 2010		FEB 2010		FEB 2010	
REVISIONS 1		REVISIONS 2		REVISIONS 3		REVISIONS 4		REVISIONS 5		REVISIONS 6	
FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES		FIELD CHANGES	

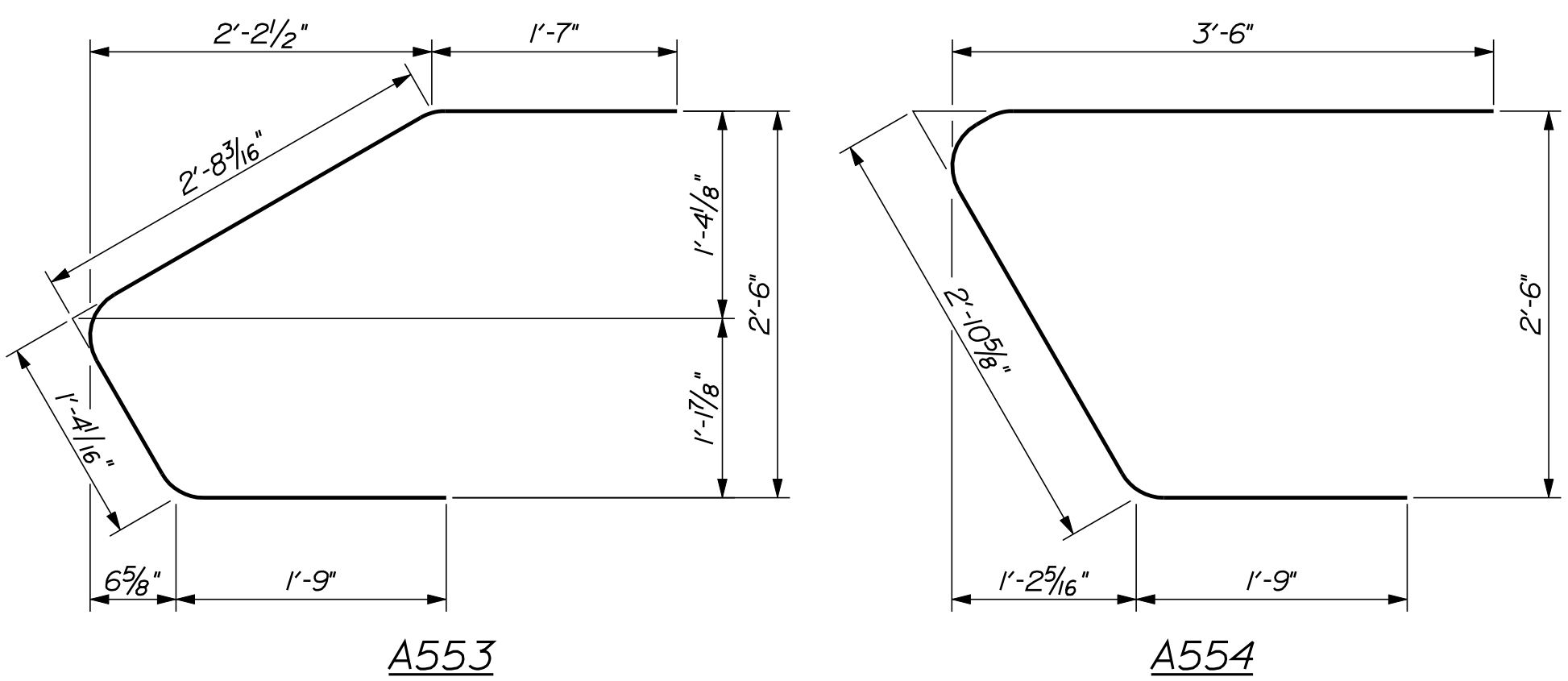


STRAIGHT BARS			
MARK	QTY.	LENGTH	LOCATION
A505	59	27'-8"	VERTICAL STEEL IN FRONT OF BREASTWALL @ ABUT.1
A506	132	25'-3"	HORIZONTAL STEEL IN BREASTWALL @ ABUTMENT 1
A507	2	17'-6"	ADDITIONAL VERTICAL STEEL @ THE ENDS OF WINGWALLS (MIDDLE OF WALL)
A508	3	33'11"	ADDITIONAL HORIZONTAL STEEL @ THE TOP OF WINGWALLS (MIDDLE OF WALL)
A600	8	25'-5½"	ADDITIONAL HORIZONTAL STEEL UNDER BRIDGE SEAT @ ABUTMENT 1
A601	21	17'-5"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.1 (PART OF "SET A")
A602	9	19'-7¾"	VERTICAL FRONT BAR IN NORTH WINGWALL @ ABUT.1 (PART OF "SET B")
A603	20	21'-7¾"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.1 (PART OF "SET C")
A604	10	23'-10"	VERTICAL FRONT BAR IN NORTH WINGWALL @ ABUT.1 (PART OF "SET D")
A605	20	26'-0"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.1 (PART OF "SET E")
A606	10	28'-0"	VERTICAL FRONT BAR IN NORTH WINGWALL @ ABUT.1 (PART OF "SET F")
A609	84	27'-7"	HORIZONTAL BARS IN NORTH WINGWALL @ ABUT.1
A610	20	21'-0"	HORIZONTAL BARS IN NORTH WINGWALL @ ABUT.1
A611	10	17'-3⅞"	HORIZONTAL BARS IN NORTH WINGWALL @ ABUT.1 (FLARED)
A612	36	31'-7"	HORIZONTAL BARS IN SOUTH WINGWALL @ ABUT.1
A613	24	16'-1¼"	HORIZONTAL BARS IN SOUTH WINGWALL @ ABUT.1
A614	14	14'-7½"	HORIZONTAL BARS IN SOUTH WINGWALL @ ABUT.1 (FLARED)
A801	56	26'-10"	VERTICAL BARS IN BACK OF BREASTWALL @ ABUT.1 (LAP W/ F1050)
A802	55	11'-0"	VERTICAL BARS IN BACK OF BREASTWALL @ ABUT.1 (LAP W/ F1050)
A803	21	17'-5"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.1 (PART OF "SET A")
A804	9	19'-7¾"	VERTICAL BACK BAR IN NORTH WINGWALL @ ABUT.1 (PART OF "SET B")
A805	20	21'-7¾"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.1 (PART OF "SET C")
A806	10	23'-10"	VERTICAL BACK BAR IN NORTH WINGWALL @ ABUT.1 (PART OF "SET D")
A807	20	26'-0"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.1 (PART OF "SET E")
A808	10	28'-0"	VERTICAL BACK BAR IN NORTH WINGWALL @ ABUT.1 (PART OF "SET F")
B500	2	14'-9"	ADDITIONAL VERTICAL STEEL @ THE ENDS OF WINGWALLS (MIDDLE OF WALL)
B501	3	32'-4"	ADDITIONAL HORIZONTAL STEEL @ THE TOP OF WINGWALLS (MIDDLE OF WALL)
B600	112	25'-5½"	HORIZONTAL STEEL IN BREASTWALL @ ABUT.2 & UNDER BRIDGE SEAT
B601	14	17'-5"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.2 (PART OF "SET G")
B602	13	19'-7¾"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.2 (PART OF "SET H")
B603	14	21'-7¾"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.2 (PART OF "SET I")
B604	13	23'-10"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.2 (PART OF "SET J")
B605	18	26'-0"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.2 (PART OF "SET K")
B607	16	14'-9½"	VERTICAL FRONT BAR IN WINGWALLS @ ABUT.2 (PART OF "SET L")
B609	76	27'-7"	HORIZONTAL BARS IN SOUTH WING @ ABUTMENT 2
B610	20	21'-0"	HORIZONTAL BARS IN SOUTH WING @ ABUTMENT 2
B611	10	17'-3⅞"	HORIZONTAL BARS IN SOUTH WING @ ABUTMENT 2 (FLARED)
B613	24	16'-1¼"	HORIZONTAL BARS IN NORTH WING @ ABUTMENT 2
B614	14	14'-7½"	HORIZONTAL BARS IN NORTH WING @ ABUTMENT 2 (FLARED)
B615	32	29'-7"	HORIZONTAL BARS @ ABUT.2 NORTH WING
B616	50	26'-2¼"	VERTICAL STEEL IN FRONT OF BREASTWALL @ ABUTMENT 2
B802	46	11'-0"	VERTICAL BARS IN BACK OF BREASTWALLS @ ABUT.2 (LAP W/ F1050)
B803	14	17'-5"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.2 (PART OF "SET G")
B804	13	19'-7¾"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.2 (PART OF "SET H")
B805	14	21'-7¾"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.2 (PART OF "SET I")
B806	13	23'-10"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.2 (PART OF "SET J")
B807	38	26'-0"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.2 (PART OF "SET K")
B809	16	14'-9½"	VERTICAL BACK BAR IN WINGWALLS @ ABUT.2 (PART OF "SET L")
B811	47	25'-4¼"	VERTICAL BARS IN BACK OF BREASTWALLS @ ABUT.2 (LAP W/ F1050)

STRAIGHT BARS			
MARK	QTY.	LENGTH	LOCATION
F500	34	8'-4"	TOP TRANSVERSE STEEL IN FOOTINGS @ ABUT.1&2 (FLARED AS NECESSARY)
F501	98	25'-11"	TOP LONGITUDINAL STEEL IN FOOTINGS @ ABUT.1&2
F502	15	34'-7"	TOP LONGITUDINAL STEEL IN FOOTING @ ABUT.1 SOUTH WING
F503	58	29'-9"	TOP LONGITUDINAL STEEL IN FOOTING @ ABUT.1 NORTH WING & ABUT.2 SOUTH WING
F504	229	3'-0"	BOTTOM TRANSVERSE STEEL IN ALL FOOTINGS @ ABUT.1&2
F507	59	5'-0"	VERTICAL BAR BETWEEN FOOTING AND BREASTWALL @ ABUT 1 (LAP W/ A505)
F508	14	32'-7"	TOP LONGITUDINAL STEEL IN FOOTING @ ABUT.2 NORTH WING
F608	228	5'-0"	VERTICAL BAR BTWN FOOTINGS AND WALLS @ ABUT.1&2 (LAP W/ B616 & SETS A-L)
F800	175	11'-4"	TOP TRANSVERSE IN WING FOOTINGS @ ABUT.1
F810	171	10'-4"	TOP TRANSVERSE IN WING FOOTINGS @ ABUT.2
F1000	107	18'-6"	TOP TRANSVERSE IN BREASTWALL FOOTING @ ABUT.1
F1001	89	17'-6"	TOP TRANSVERSE IN BREASTWALL FOOTING @ ABUT.2



BENT BARS														
MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	I	LOCATION	
A550	56	8'-1½"	U		3'-1"	2'-1"	3'-1"						BREASTWALL STIRRUP @ ABUT.1 (LAP W/ A505)	
A551	56	3'-5¼"	L	2'-6"	1'-0"								L-BAR @ BACK OF BREASTWALLS @ ABUT.1 (LAP W/ A550 & A801)	
A552	90	15'- 6½"	U		6'-7½"	2'-5"	6'-7½"						WINGWALL STIRRUP @ ABUT.1 (PART OF SETS A-F)	
A553	33	7'- 2"	SEE SKETCH THIS SHEET										END OF BREASTWALL AT CONTROL OR CONST. JT.	
A554	33	7'- 10½"	SEE SKETCH THIS SHEET										END OF BREASTWALL AT CONTROL OR CONST. JT.	
A555	4	10'-6"	U		3'-10"	2'-11½"	3'-10"						TOP OF PARAPET REINFORCING	
A556	2	10'-½"	U		3'-10"	2'-6"	3'-10"						TOP OF PARAPET REINFORCING	
A557	101	6'-2½"	U		2'-0"	2'-4"	2'-0"						END OF WINGWALLS & @ WING CONSTRUCTION OR CONTROL JT.	
A558	30	2'-9¼"	L	1'-10"	1'-0"								L-BAR BETWEEN APPROACH SLAB & ABUMENT 1	
B550	47	8'-1½"	U		3'-1"	2'-1"	3'-1"						BREASTWALL STIRRUP @ ABUT.2 (LAP W/ B616)	
B551	47	3'-5¼"	L	2'-6"	1'-0"								L-BAR @ BACK OF BREASTWALLS @ ABUT.2 (LAP W/ B550 & B811)	
B552	88	15'- 6½"	U		6'-7½"	2'-5"	6'-7½"						WINGWALL STIRRUP @ ABUT.2 (PART OF SETS G-L)	
B553	26	7'- 2"	SEE SKETCH THIS SHEET										END OF BREASTWALL AT CONTROL OR CONST. JT.	
B554	26	7'- 10½"	SEE SKETCH THIS SHEET										END OF BREASTWALL AT CONTROL OR CONST. JT.	
B555	4	10'-6"	U		3'-10"	2'-11½"	3'-10"						TOP OF PARAPET REINFORCING	
B556	2	10'-½"	U		3'-10"	2'-6"	3'-10"						TOP OF PARAPET REINFORCING	
B557	101	6'-2½"	U		2'-0"	2'-4"	2'-0"						END OF WINGWALLS & @ WING CONSTRUCTION OR CONTROL JT.	
B558	30	2'-9¼"	L	1'-10"	1'-0"								L-BAR BETWEEN APPROACH SLAB & ABUMENT 2	
F850	349	7'-9¾"	L	5'-0"	2'-10¼"								L-BAR BTWN BACK OF WING WALLS & FOOTINGS @ ABUT.1&2	
F1050	204	9'-1¾"	L	4'-8"	4'-8"								L-BAR BTWN BACK OF BREASTWALLS & FOOTINGS @ ABUT.1&2	
MARK	QTY.	LENGTH	TYPE	A	B	C	D	E	F	G	H	I	LOCATION	



All dimensions are out-to-out of bar.
Bending details and hooks shall conform to the recommendations of the current revision of ACI Standard 318.
Reinforcing Bar: ASTM A615, Grade 60

GENERAL NOTES

1. The first two digits following the letter(s) of the mark indicate the size of the bar:

Mark "A502" = bar size #5
Mark "P801" = bar size #8
Mark "S650" = bar size #6

2. Each crank bar, Type B, may be replaced by two (2) straight bars (one top and one bottom) of the same bar size as the crank bar. Payment in either case shall be based on crank bars as schedule on the plans

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION

015622.00

PIN
15622.00

BRIDGE NO. 2976

BRIDGE PLANS

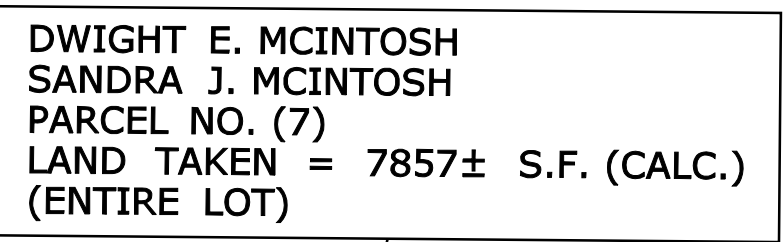
MCRR CROSSING BRIDGE
MAINE CENTRAL RAILROAD
CARMEL
PENOBSCOT COUNTY


REBAR SCHEDULE

SHEET NUMBER

65

OF 67



REVISIONS				PLAN FILED IN PLAN BOOK PAGE COUNTY RECORD						<div>DAVID A. COLE COMMISSIONER KENNETH L. SWEENEY CHIEF ENGINEER DATE</div> <div></div>	STATE HIGHWAY "221"		
NO.	DATE	DESCRIPTION	BY	NO.	GRANTOR	INSTRUMENT	DATE	BOOK	PAGE		U.S. ROUTE 2		
1	07/28/10	REVISED RAILROAD R/W LINES AND NEW HIGHWAY BOUNDARY LINE AND DISTANCES AFFECTING PARCELS 2, 3, 4, 5, 6	BDM			COND.	7/12/10	12188	233		CARMEL PENOBSCOT COUNTY		
											FEDERAL AID PROJECT NO. BR-1562(200)X		
										MAY 2010			
										SCALE 1" = 25'			
										RIGHT-OF-WAY MAP			
										SHEET 2 OF 2			
										D.O.T. FILE NO. 10-463			

