

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION



CORINNA
PENOBSCOT COUNTY
MULLIGAN STREAM BRIDGE
OVER
MULLIGAN STREAM
NOKOMIS ROAD
BRIDGE NO.: 6160
WIN 026476.00

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UTILITIES

Central Maine Power TDS of Maine	Consolidated Communications First Light
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TRAFFIC DATA

Current (2023) AADT	450
Future (2043) AADT	500
DHV - % of AADT	14
Design Hour Volume	67
Heavy Trucks (% of AADT)	8
Heavy Trucks (% of DHV)	12
Directional Distribution (% of DHV).....	72
18 kip Equivalent P 2.0.....	7
18 kip Equivalent P 2.5.....	7
Design Speed (mph).....	45

MAINTENANCE OF TRAFFIC

Full bridge closure. Traffic maintained via off-site detour.

SPECIFICATIONS

Design: Load and Resistance Factor Design per AASHTO LRFD Bridge Design Specifications, Tenth Edition 2024.

DESIGN LOADING

Live Load HL - 93 Modified for Strength I

HYDROLOGIC DATA

Headwater Elevation (Q100) 210 ft

MATERIALS

Concrete:
Precast Class "P"
All Other Class "A"

Reinforcing:
Plain Reinforcing Steel ASTM A615, Grade 60

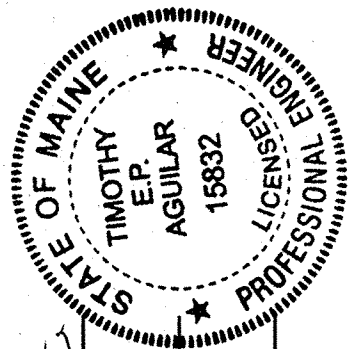
BASIC DESIGN STRESSES

Concrete:
Class "P" f'c = 5,000 psi
Class "A" f'c = 4,000 psi

Reinforcing:
Plain Reinforcing Steel 60,000 psi

PROJECT LOCATION	Mulligan Stream Bridge No. 6160 over Mulligan Stream. 0.66 of a mile northeast of Williams Drive. Lat. 44.903929, Long. -69.292816
PROGRAM AREA	Bridge Program
OUTLINE OF WORK	Bridge Replacement

STATE OF MAINE DEPARTMENT OF TRANSPORTATION	APPROVED	DATE
COMMISSIONER	CHIEF ENGINEER	6-23-26



SIGNATURE
15832
P.E. NUMBER
6/17/2026
DATE

PROJECT INFORMATION	BRIDGE	DORIAN TAYLOR	WILLIAM CASEY			
PROGRAM	PROJECT MANAGER	DESIGNER	CONSULTANT	PROJECT RESIDENT	CONTRACTOR	PROJECT COMPLETION DATE

MULLIGAN STREAM BRIDGE NO. 6160 CROSSING MULLIGAN STREAM CORINNA	TITLE SHEET
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SHEET NUMBER
1
OF 19

ESTIMATED QUANTITIES			
ITEM NO.	DESCRIPTION	QUANTITY	UNIT
202.202	REMOVING PAVEMENT SURFACE	740	SY
203.20	COMMON EXCAVATION	1000	CY
203.2318	DISPOSAL OF SPECIAL WASTE	10	TON
203.24	COMMON BORROW	25	CY
203.25	GRANULAR BORROW	106	CY
203.55	CULVERT BEDDING STONE	300	CY
206.061	STRUCTURAL EARTH EXCAVATION - DRAINAGE AND MINOR STRUCTURES, BELOW GRADE	150	CY
304.10	AGGREGATE SUBBASE COURSE - GRAVEL	1055	CY
403.208	12.5 MM HMA	170	TON
403.213	12.5 MM HMA BASE	175	TON
409.15	BITUMINOUS TACK COAT - APPLIED	75	GAL
508.13	SHEET WATERPROOFING MEMBRANE	(130 SY)	1 LS
511.07	COFFERDAM, Upstream	1	LS
511.07	COFFERDAM, Downstream	1	LS
515.21	PROTECTIVE COATING FOR CONCRETE SURFACES	(55 SY)	1 LS
526.301	PORTABLE CONCRETE BARRIER - TYPE 1	(80 LF)	1 LS
534.71	PRECAST CONCRETE BOX CULVERT	(170 CY)	1 LS
606.1301	31" W-BM GR, MID-WAY SPLICE-SGL FACED	438	LF
606.1305	31" W-BM GR, MD-WY SPLC FLARED TERM	4	EA
606.353	REFLECTORIZED FLEXIBLE GUARDRAIL MARKER	8	EA
610.08	PLAIN RIPRAP	350	CY
610.213	VOID-FILLED RIPRAP	69	CY
613.319	EROSION CONTROL BLANKET	224	SY
615.07	LOAM	90	CY
618.14	SEEDING METHOD NUMBER 2	14	UN
619.12	MULCH	14	UN
619.14	EROSION CONTROL MIX	170	CY
620.54	STABILIZATION/REINFORCEMENT GEOTEXTILE	515	SY
620.58	EROSION CONTROL GEOTEXTILE	489	SY
627.733	4" WHITE OR YELLOW PAINTED PAVEMENT MARKING LINE	1,575	LF
629.05	HAND LABOR, STRAIGHT TIME	100	HR
631.12	ALL PURPOSE EXCAVATOR (INCLUDING OPERATOR)	10	HR
631.14	GRADER (INCLUDING OPERATOR)	10	HR
631.15	ROLLER, EARTH AND BASE COURSE (INCLUDING OPERATOR)	10	HR
631.172	TRUCK - LARGE (INCLUDING OPERATOR)	10	HR
639.19	FIELD OFFICE TYPE B	1	EA
652.312	TYPE III BARRICADE	4	EA
652.33	DRUM	25	EA
652.34	CONE	50	EA
652.35	CONSTRUCTION SIGNS	800	SF
652.361	MAINTENANCE OF TRAFFIC CONTROL DEVICES	1	LS
652.38	FLAGGER	100	HR
656.75	TEMPORARY SOIL EROSION AND WATER POLLUTION CONTROL	1	LS
659.10	MOBILIZATION	1	LS

GENERAL CONSTRUCTION NOTES

1. For easements, construction limits, and right of way lines, refer to the Right of Way Map.
2. 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.
3. All utility facilities shall be adjusted by the respective utilities unless otherwise noted.
4. Existing signs within the Project limits shall be removed and reset as directed by the Resident. Payment for removal and reinstallation of existing signs will be considered incidental to the Contract. No separate payment will be made.
5. Do not excavate for Aggregate Subbase Course where existing material is suitable as determined by the Resident.
6. 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 inches or less thick will be made under appropriate equipment rental items.
7. Place riprap on sideslopes up to elevations as shown on the plans.
8. Place loam 2 inches deep on all new or reconstructed sideslopes or as directed by the Resident.
9. Erosion Control Mix may be substituted in those areas normally receiving loam and seed as directed by the Resident. Placement shall be in accordance with Standard Specifications Section 619, Mulch. Payment will be made under Pay Item 619.14, Erosion Control Mix.
10. Place a 24 inch wide strip of Erosion Control Blanket on the sideslopes along the top of the riprap.
11. A MASH compliant guardrail end treatment shall be installed concurrently with the placement of each section of beam guardrail.
12. Where it is apparent that runoff will cause continual erosion, 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. Payment will be made under the appropriate Contract items.
13. Protective Coating for Concrete Surfaces shall be applied to the following areas:

Concrete headwall, including to one foot inside the box;
Exposed tops of vertical walls and to one foot below the ground on the back side;
Exposed faces of vertical walls and to one foot inside the box.
14. All embankment material, except as otherwise shown, shall be Granular Borrow meeting the requirements of Standard Specification Subsection 703.19, Granular Borrow, Material for Underwater Backfill, with the additional requirement that the maximum particle size shall be limited to 4 inches.
15. Project information referred to below may be accessed at the followin MaineDOT web address: <https://www.maine.gov/dot/doing-business/bid-opportunities>
16. The existing bridge plans may be accessed at the MaineDOT web address. The plans are reproductions of the original drawings as prepared for the 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.
17. Geotechnical Design Report for the Replacement of Mulligan Stream Bridge, Corinna, Maine, Soils Report 2026-33, dated April 24, 2026, may be accessed at the MaineDOT web address.
18. Geotechnical information furnished or referred to in this plan set is for the use of the Bidders and the Contractor. No assurance is given that the information or interpretations will be representative of actual subsurface conditions at the construction site. MaineDOT will not be responsible for the Bidders' or 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 the boring locations.
19. 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.

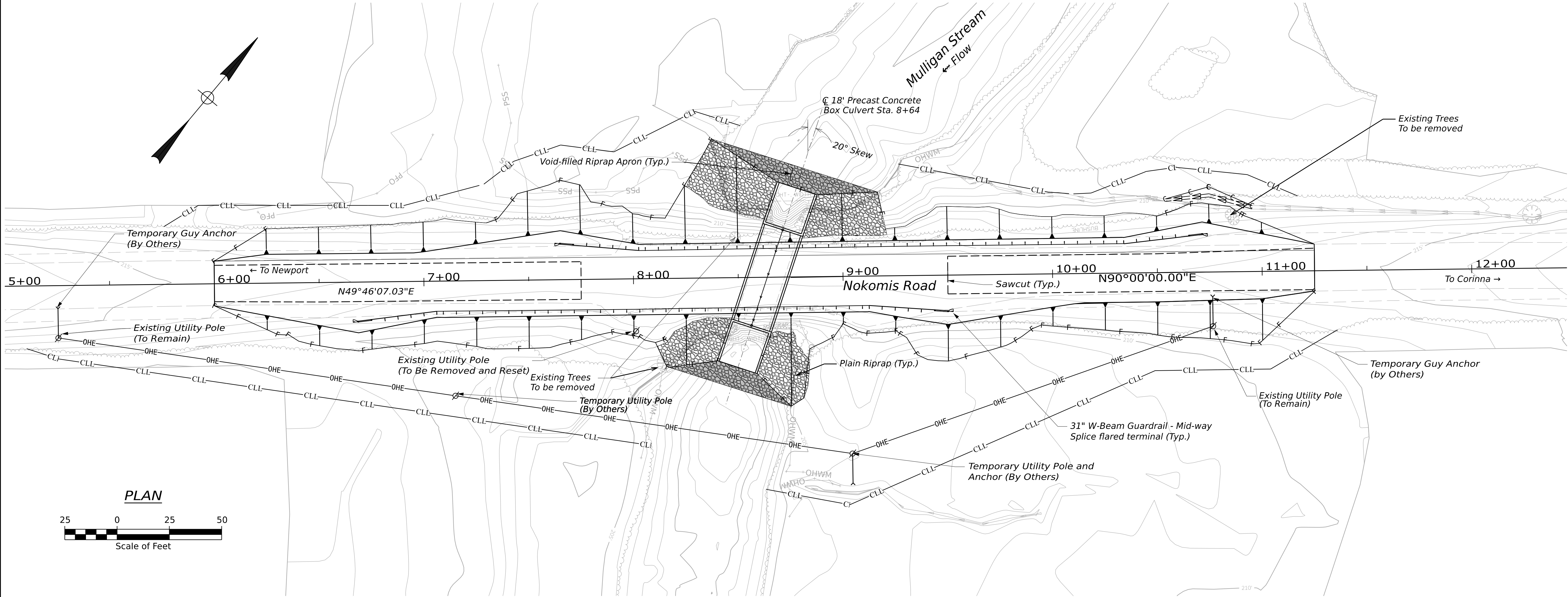
c. If a design change results in changes to estimated quantities for Lump Sum pay items, price adjustments will be made in accordance with Standard Specifications Section 109.7, Equitable Adjustments to Compensation and Time.

STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Federal Project No. 02647600
WIN 026476.00

MULLIGAN STREAM BRIDGE NO. 6160
CROSSING MULLIGAN STREAM
CORINNA

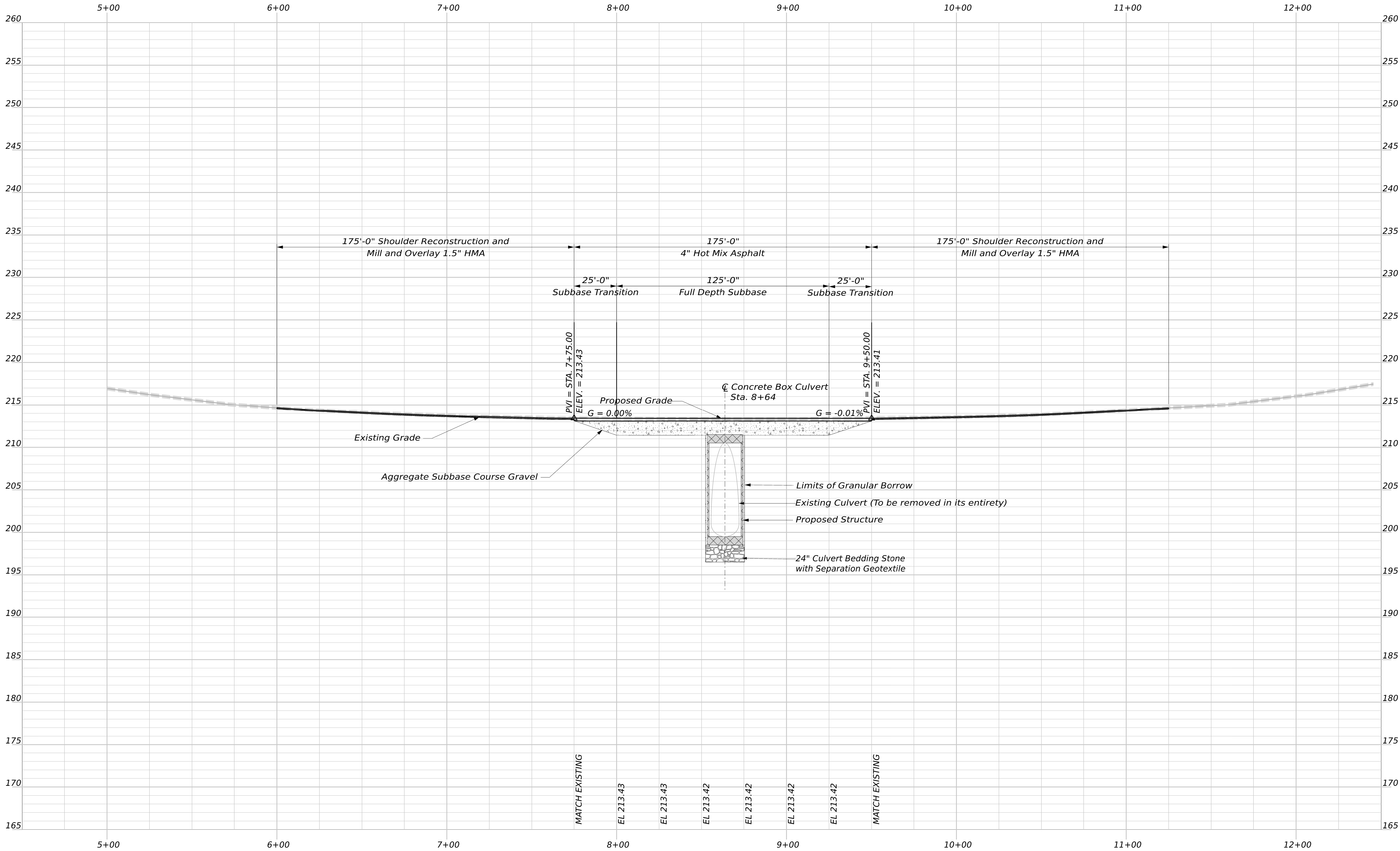
ESTIMATED QUANTITIES &
GENERAL CONSTRUCTION NOTES

SHEET NUMBER
2
OF 19



- NOTES**
- Guardrail posts that are located on top of the new box culvert shall be installed in accordance with Standard Detail 606(22), Guardrail Treatment Over Buried Structures.
 - Excess dredge material shall be used to fill the voids in riprap slopes below EL. 205, as directed by the Resident.

OF 19		SHEET NUMBER		CORINNA MULLIGAN STREAM BRIDGE		PROJ. MANAGER		D. TAYLOR		BY		DATE		STATE OF MAINE DEPARTMENT OF TRANSPORTATION	
		3				DESIGNER/DETAILED		W. CASEY						SIGNATURE	
						CHECKER/REVIEWED									
						DESIGN-2/DETAILED-2									
						DESIGN-3/DETAILED-3								P.E. NUMBER	
						REVISIONS: 1									
						REVISIONS: 2									
						REVISIONS: 3									
						REVISIONS: 4									
						FIELD CHANGES								DATE	
														WIN	
														BRIDGE NO. 6160	
														026476.00	
														BRIDGE PLANS	



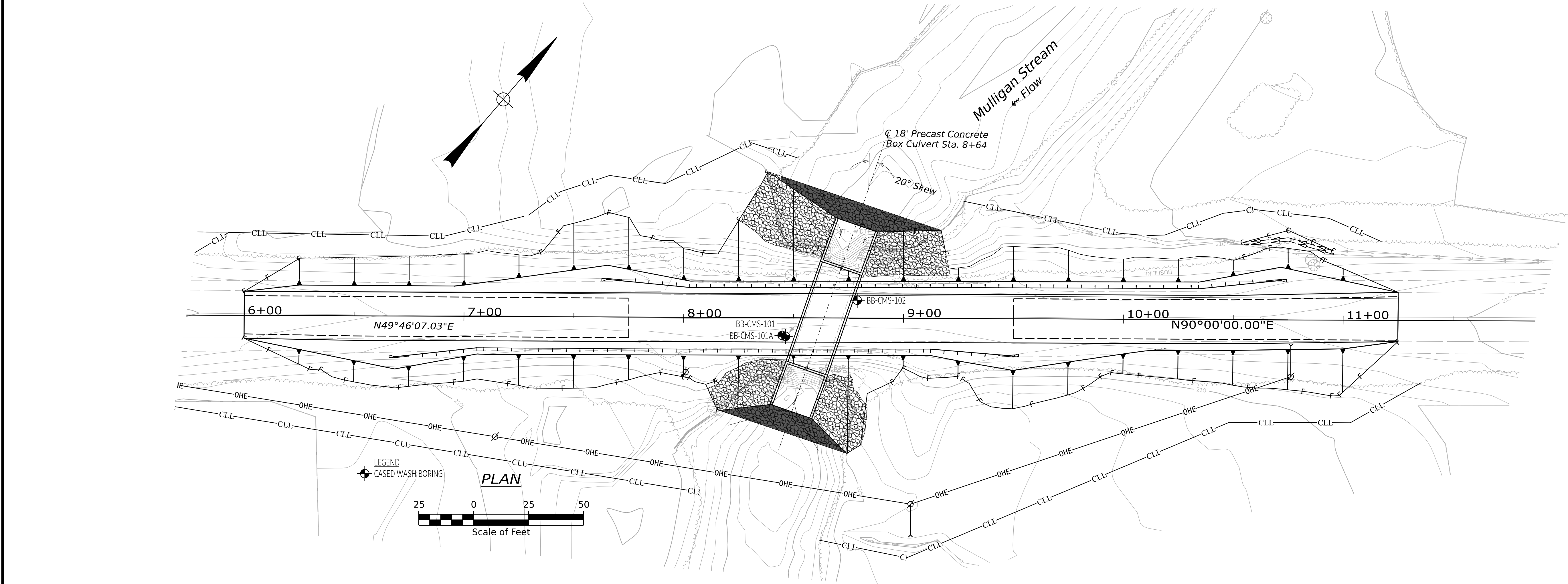
STATE OF MAINE DEPARTMENT OF TRANSPORTATION Federal Project No. 026476.00	SIGNATURE	
	P.E. NUMBER	
BRIDGE NO. 61.60 WIN 026476.00 BRIDGE PLANS	DATE	

PROJ. MANAGER	BY	DATE
DESIGN-DETAILED	D. TAYLOR	
CHECKED-REVIEWED	W. CASEY	
DESIGN-DETAILED2		
DESIGN-DETAILED3		
REVISIONS 1		
REVISIONS 2		
REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

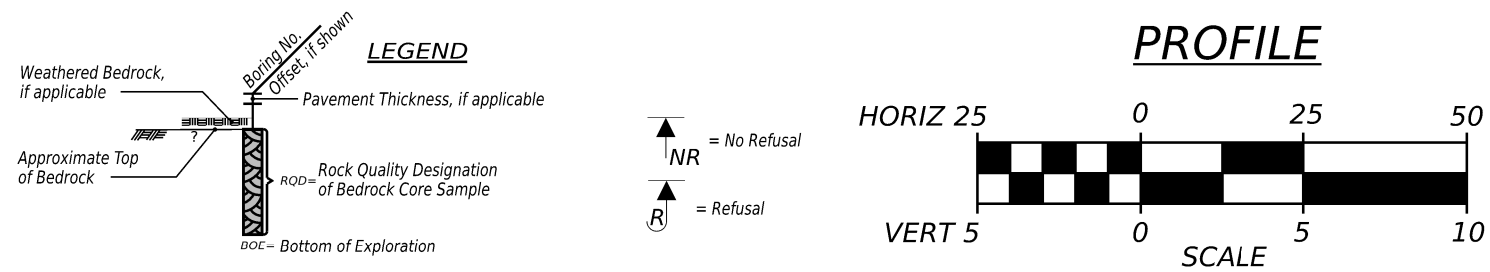
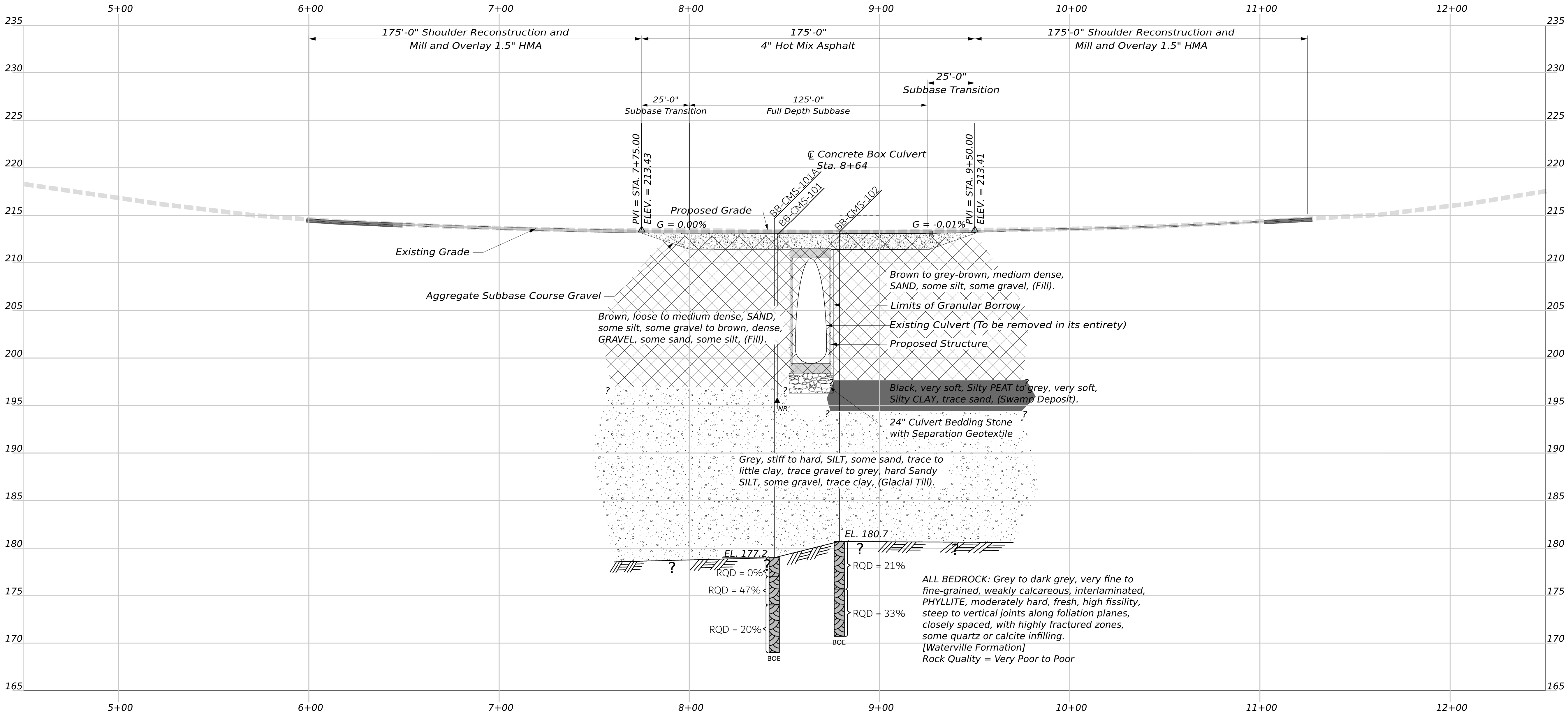
CORINNA
MULLIGAN STREAM BRIDGE

PROFILE

SHEET NUMBER
4
OF 19



MULLIGAN STREAM BRIDGE NO. 6160 CROSSING MULLIGAN STREAM CORINNA		PROJECT MANAGER		BY	DATE
BORING LOCATION PLAN		DESIGN-DETAILED			
		CHECKED-REVIEWED			
		DESIGN-DETAILED2		N. PUKAY	T. WHITE
		DESIGN-DETAILED3			APR 2026
		REVISIONS 1			
		REVISIONS 2			
		REVISIONS 3			
		REVISIONS 4			
		FIELD CHANGES			
				P.E. NUMBER	
				DATE	
SHEET NUMBER		WIN 26476.00			
5					
OF 19					



Note: This generalized interpretive soil profile is intended to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and have been developed by interpretations of widely spaced explorations and samples. Actual soil transitions may vary and are probably more erratic. For more specific information refer to the exploration logs.

Maine Department of Transportation										Project: Mulligan Stream Bridge Type M610		Boring No.: BB-CMS-101	
Soil/Rock Exploration Log										Corries Nekum's Road over			
US CUSTOMARY UNITS										Location: Corries, Maine		WIN: 26476.00	
Drillers: S.W. Cole				Elevation (ft.): 212.9				Auger ID/OD: 5" Split Stem					
Operator: Honsom/Mell				Datum: NAVD83				Samplers: Standard Split+ Spoon					
Logged By: N. Pukay				Rtg Type: DeepDr 0-50				Sampler Wt./Ft.: 140#/30"					
Date Start/Finish: 1/12/2024 09:00-09:50				Drilling Method: Casted Wash Boring				Core Barrels: N/A					
Boring Location: 8+46.2, 8-1 ft Rr.				Casing ID/OD: HW4.0"/4.5"				Water Level#: 7-0 ft bgs.					
Boring Efficiency Factor: 1.066				Hammer Type: Automatic B				Hydraulic: ☐ Pipe & Cathod: ☐					
Drillstring: 0 = Split Stem Suction 1 = Unconsolidated Split Stem Spoon Strainer 2 = 10" Split Stem Suction 3 = Unconsolidated Split Stem Spoon Strainer 4 = Off Road Drilling Rig 5 = Unconsolidated Split Stem Spoon Strainer				6 = Rock Core Suction 7 = Split Stem Suction 8 = Split Stem Suction 9 = Split Stem Suction 10 = Split Stem Suction 11 = Split Stem Suction 12 = Split Stem Suction 13 = Split Stem Suction 14 = Split Stem Suction 15 = Split Stem Suction 16 = Split Stem Suction 17 = Split Stem Suction 18 = Split Stem Suction 19 = Split Stem Suction 20 = Split Stem Suction 21 = Split Stem Suction 22 = Split Stem Suction 23 = Split Stem Suction 24 = Split Stem Suction 25 = Split Stem Suction 26 = Split Stem Suction 27 = Split Stem Suction 28 = Split Stem Suction 29 = Split Stem Suction 30 = Split Stem Suction 31 = Split Stem Suction 32 = Split Stem Suction 33 = Split Stem Suction 34 = Split Stem Suction 35 = Split Stem Suction 36 = Split Stem Suction 37 = Split Stem Suction 38 = Split 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Maine Department of Transportation

Soil/Bank Exploration Log

US CUSTOMARY UNITS

Project: Multi-lane Stream Bridge #1650

Corries Mountain Road over

Location: Carthage, Maine

Boring No.: BB-CMS-102

WIN: 26476.00

Driller: S.W. Cole

Operator: Hanscom/Wall

Lead By: M. Pukay

Date Start/Finish: 1/11/2024 09:00-13:15

Boring Location: B+78.9, B+0 ft LxL

Elevation (ft.): 211.2

Datum: NAVD88

R/T Type: Deadfall 8-50

Drilling Method: Cased Wash Boring

Casing ID/OD: H#4.0"/4.5"

Auger ID/OD: 5" Solid Stem

Samplers: Standard Split Spoon

Hammer Wt./Fall: 140#/30"

Core Barrel: NB-2"

Water Level#: 7.0 ft bgs.

Hammer Efficiency Factor: 1.066

Hammer Type: Automatic B

Hydraulic

Reap & Cathead

Soil/Bank Sample

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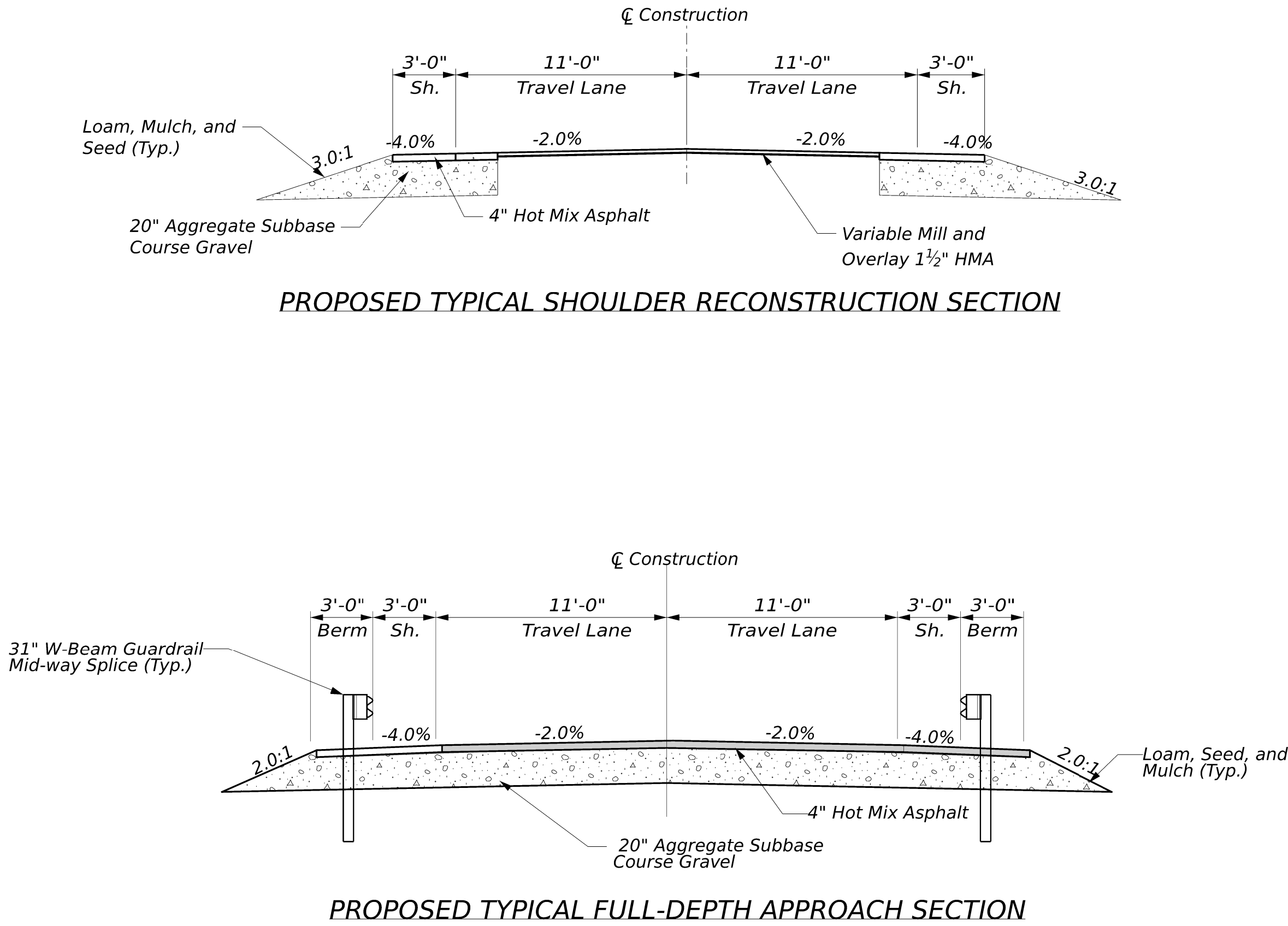
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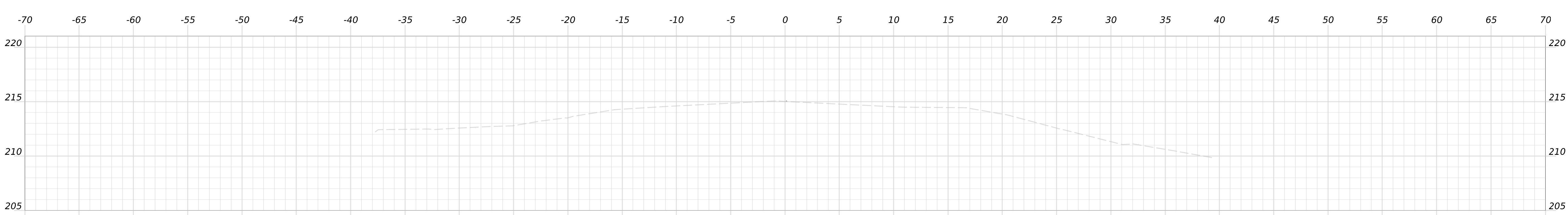
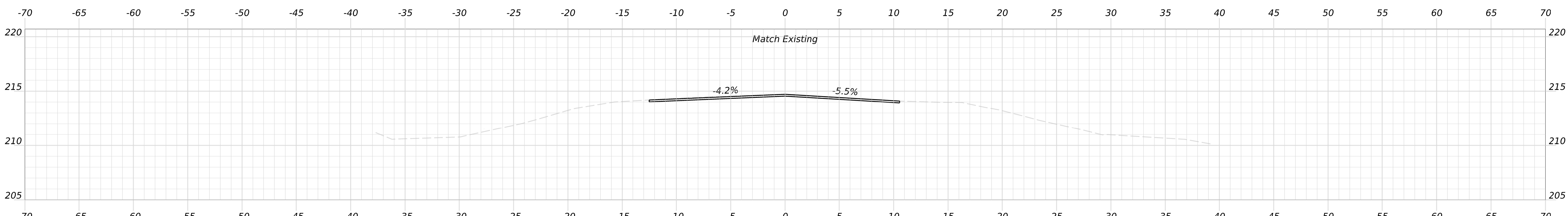
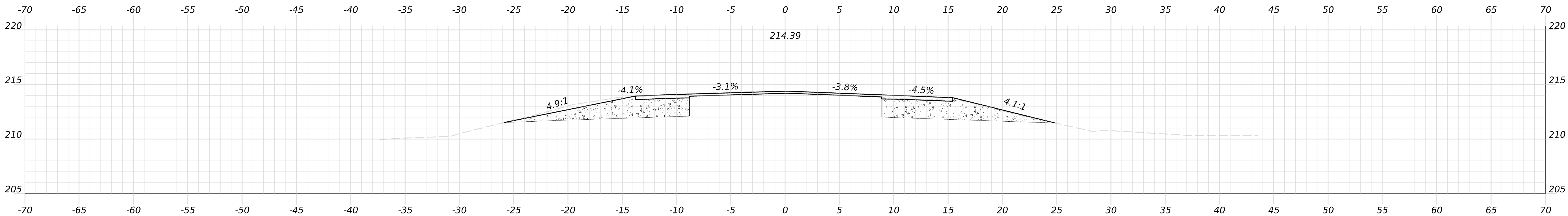
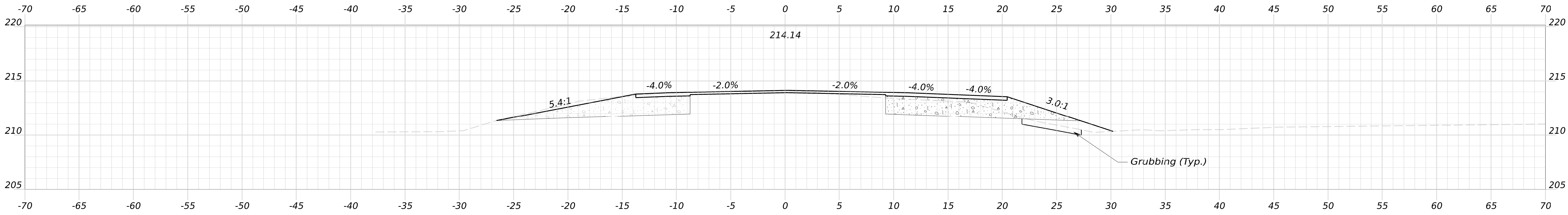
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PROJ. MANAGER	D. TAYLOR	BY	DATE
CHECKED-REVIEWED	W. CASEY		
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REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
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FIELD CHANGES			

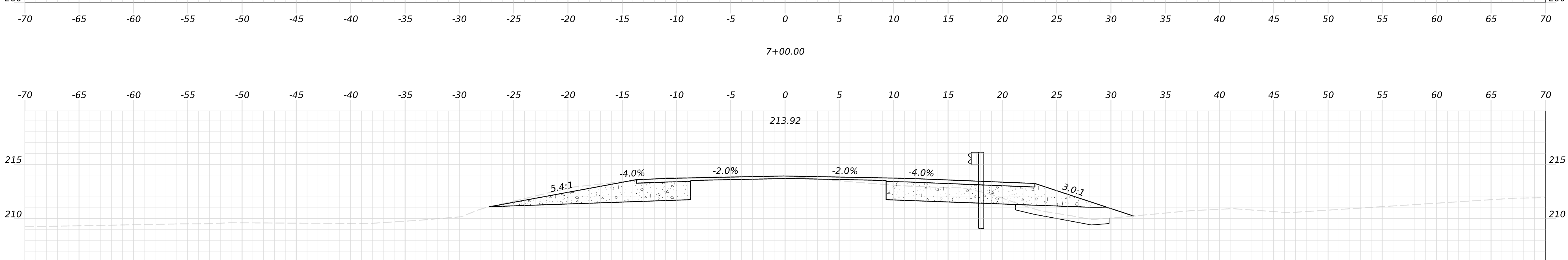
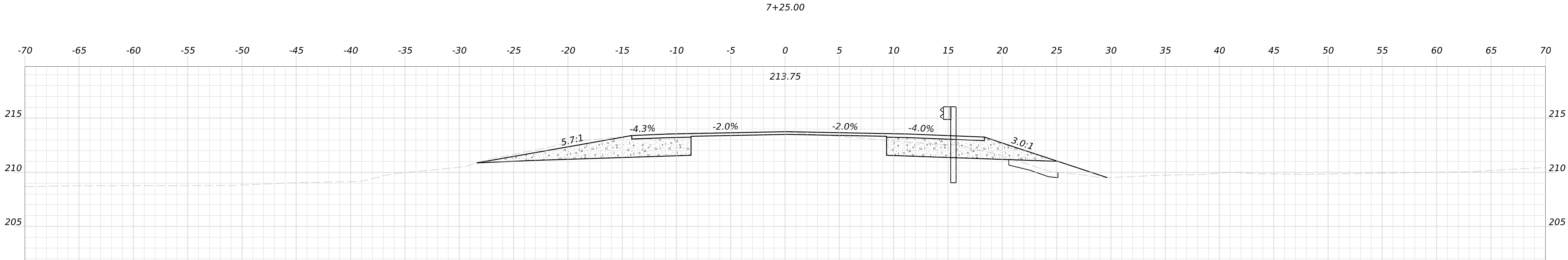
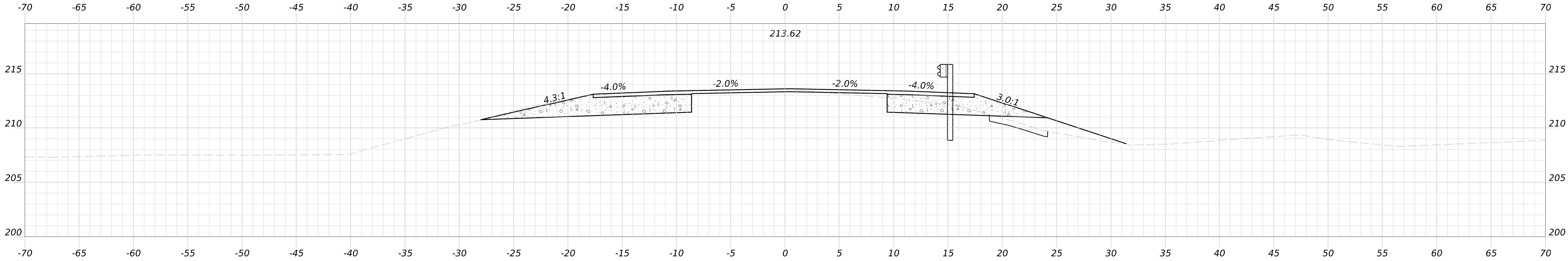
CORINNA
MULLIGAN STREAM BRIDGE
ROADWAY TYPICAL SECTIONS



PROJ. MANAGER	D. TAYLOR	BY	DATE
DESIGN-DETAILED	W. CASEY		
CHECKED-REVIEWED			SIGNATURE
DESIGN-DETAILED2			P.E. NUMBER
DESIGN-DETAILED3			DATE
REVISIONS 1			
REVISIONS 2			
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

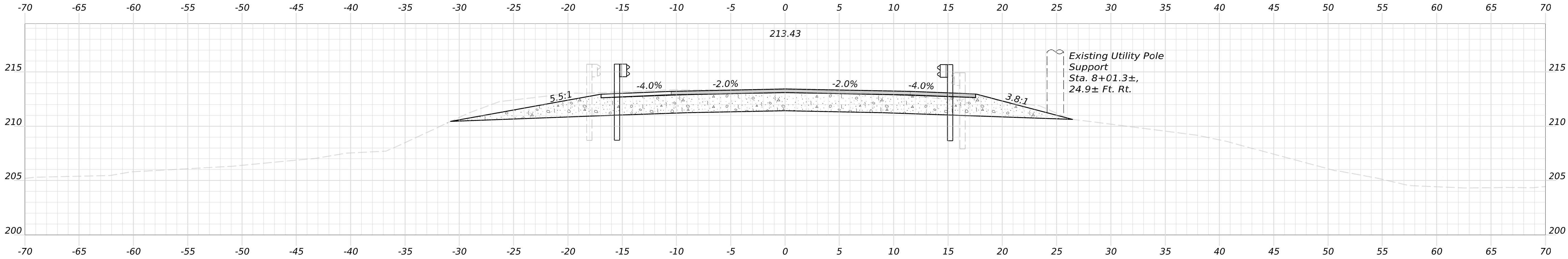
CORINNA
MULLIGAN STREAM BRIDGE

CROSS SECTIONS

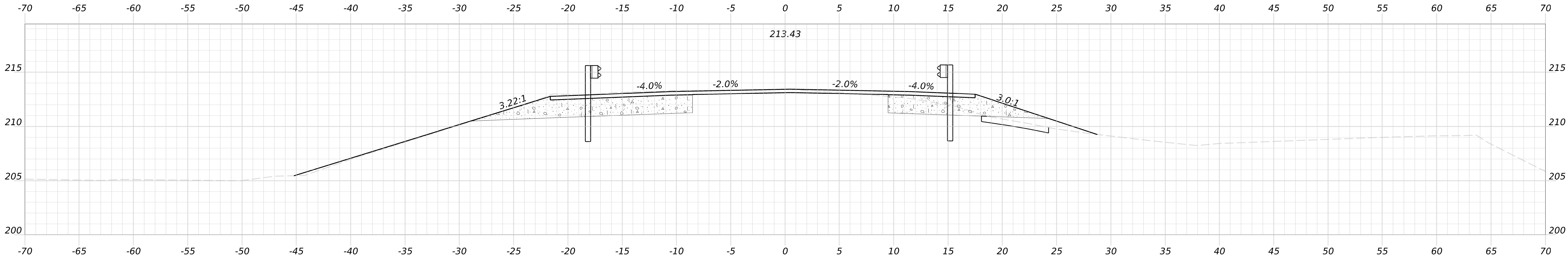


PROJ. MANAGER	CHECKED-REVIEWED	DESIGNED-DETAILED	BY	DATE
D. TAYLOR	W. CASEY			
DESIGNED-DETAILED	DESIGNED-DETAILED	DESIGNED-DETAILED		
REVISIONS 1	REVISIONS 2	REVISIONS 3		
REVISIONS 4	REVISIONS 5	REVISIONS 6		
FIELD CHANGES				

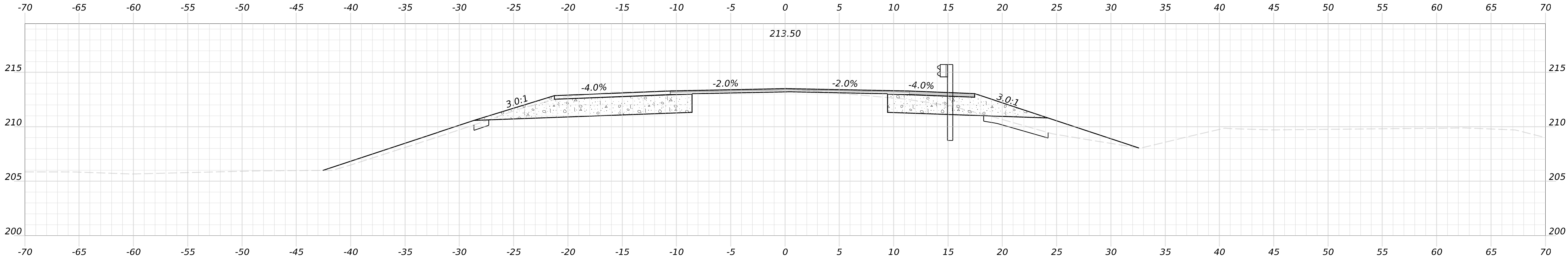
CORINNA
MULLIGAN STREAM BRIDGE
CROSS SECTIONS



8+00.00
End Subbase Transition
Begin Full Depth Construction



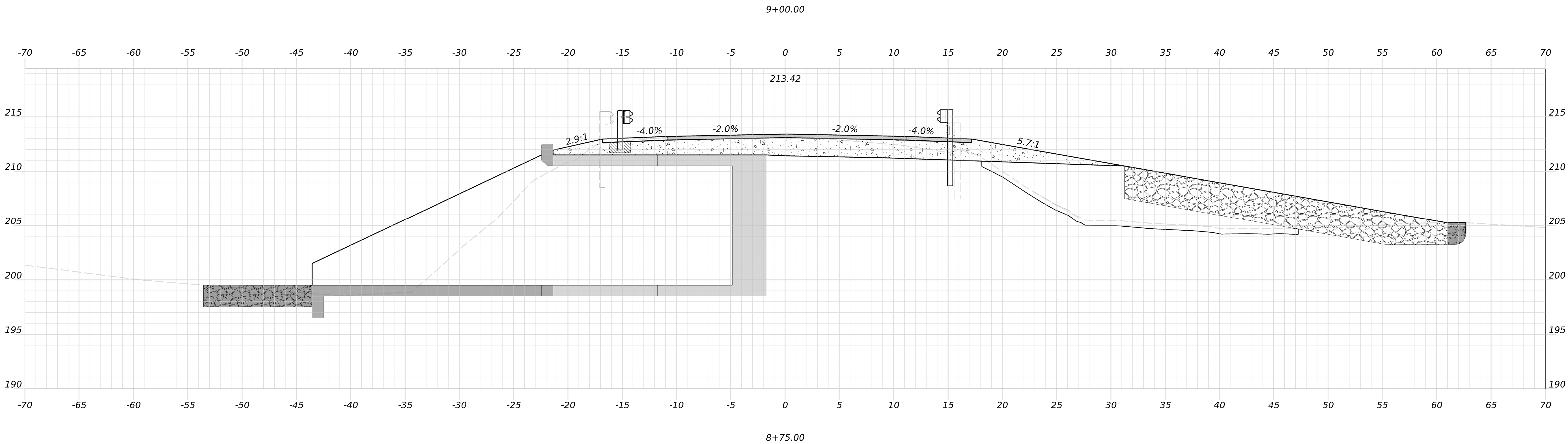
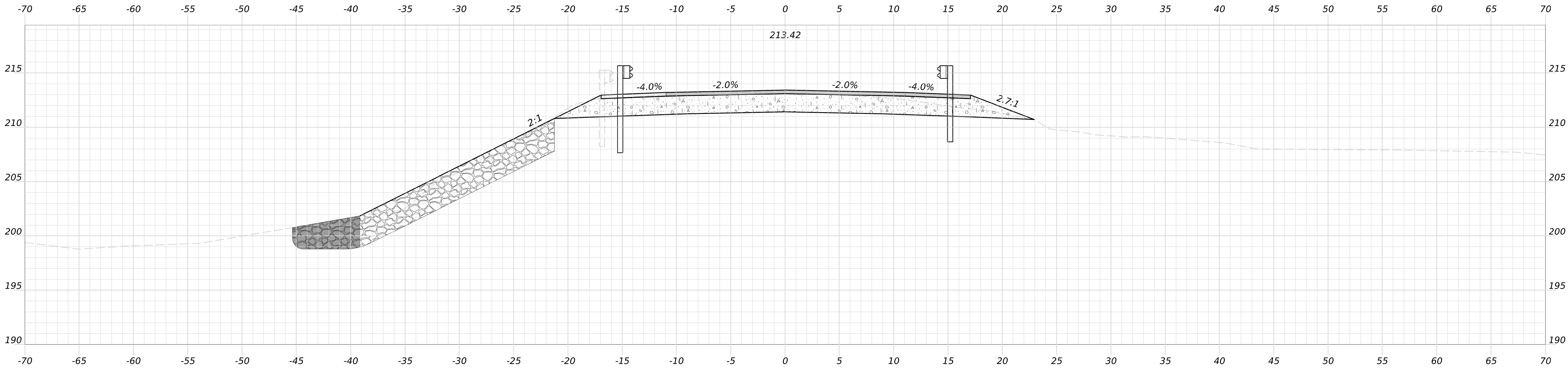
7+75.00
End Variable Mill and Overlay
Begin Subbase Transition and 4" HMA



7+50.00

PROJ. MANAGER	CHECKED-REVIEWED	DESIGNED-DETAILED	DATE
D. TAYLOR	W. CASEY		

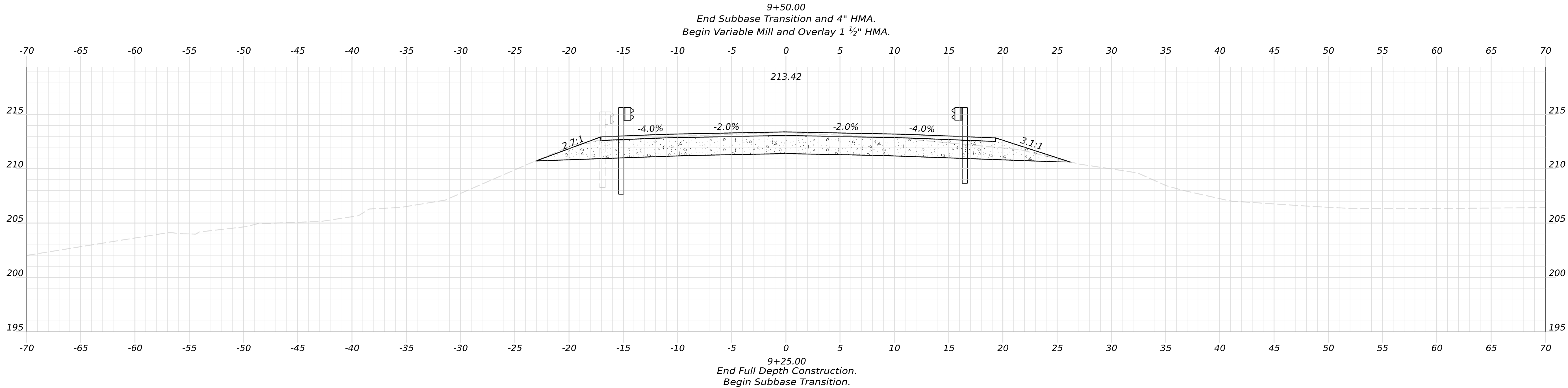
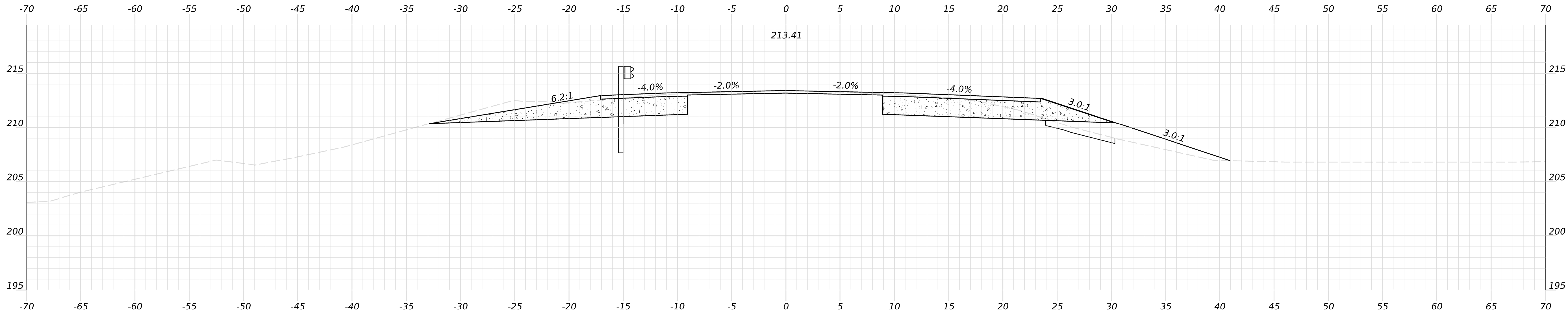
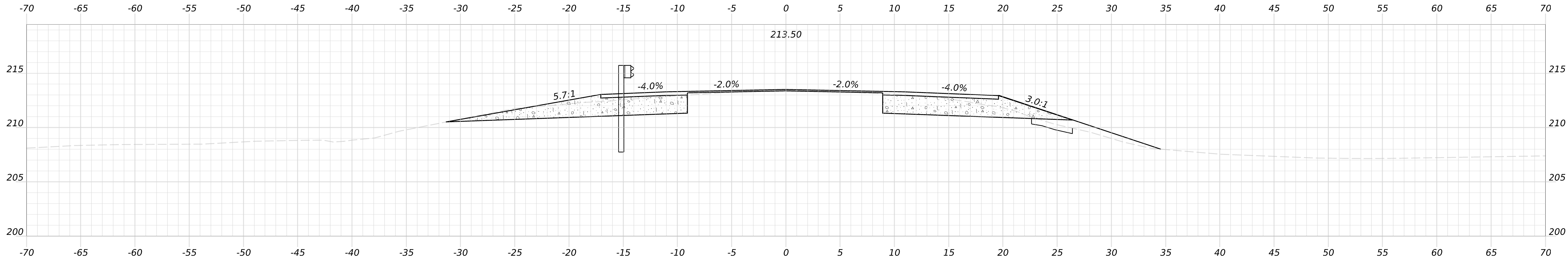
CORINNA
MULLAGAN STREAM BRIDGE
CROSS SECTIONS



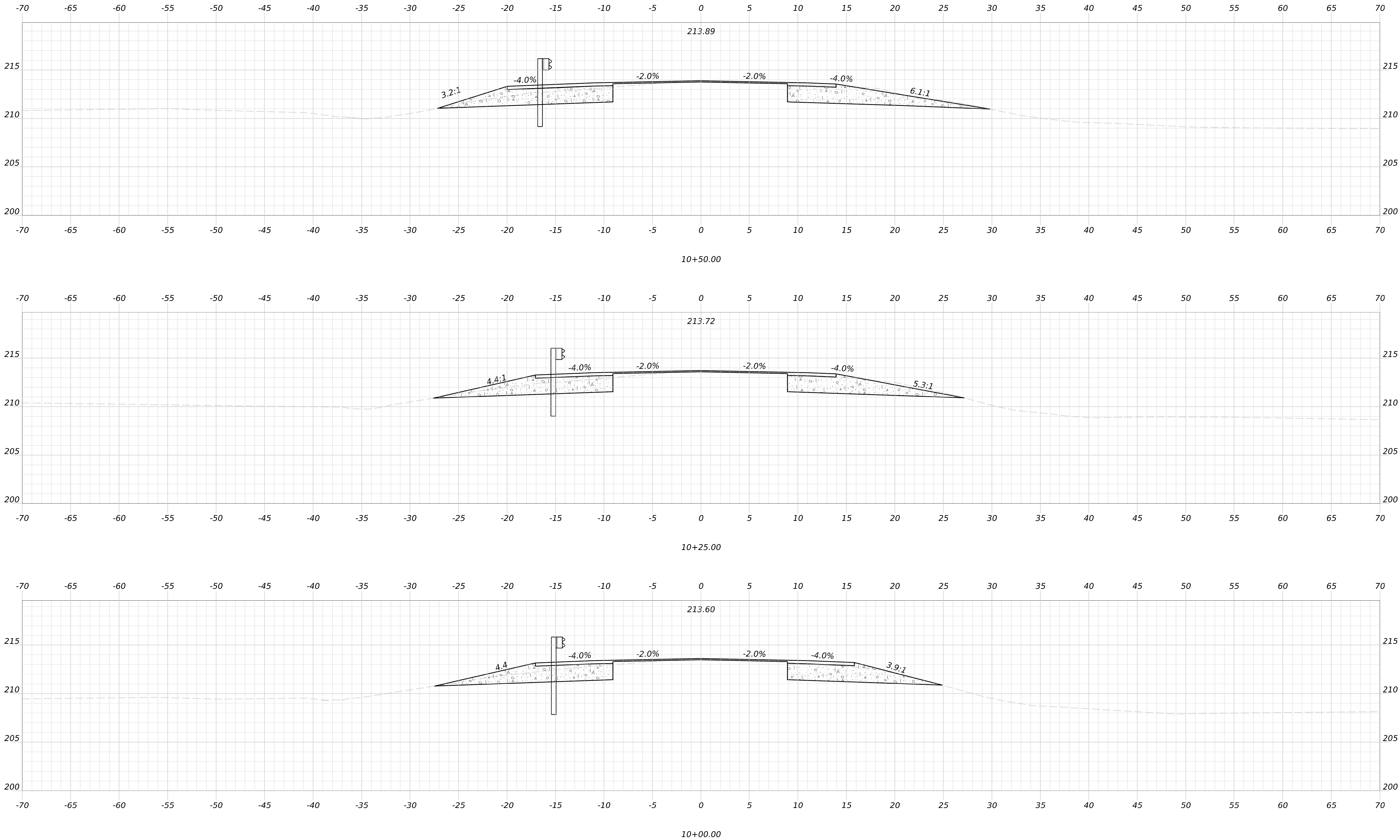
PROJ. MANAGER	CHECKED-REVIEWED	BY	DATE
D. TAYLOR	W. CASEY		
DESIGNED-DETAILED	DESIGNED-DETAILED		SIGNATURE
DESIGNED-DETAILED	DESIGNED-DETAILED		P.E. NUMBER
REVISIONS 1	REVISIONS 2		DATE
REVISIONS 3	REVISIONS 4		
FIELD CHANGES			

CORINNA
MULLIGAN STREAM BRIDGE

CROSS SECTIONS



PROJ. MANAGER	DESIGNED	CHECKED	DATE	BY	DATE
D. TAYLOR	W. CASEY				
DESIGNED-REVIEWED	CHECKED-REVIEWED	SIGNATURE			
DESIGNED-REVIEWED	CHECKED-REVIEWED	P.E. NUMBER			
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REVISIONS 1	REVISIONS 2				
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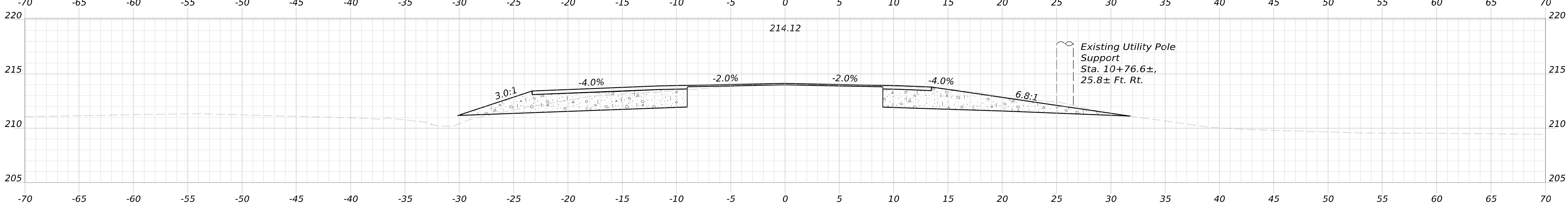
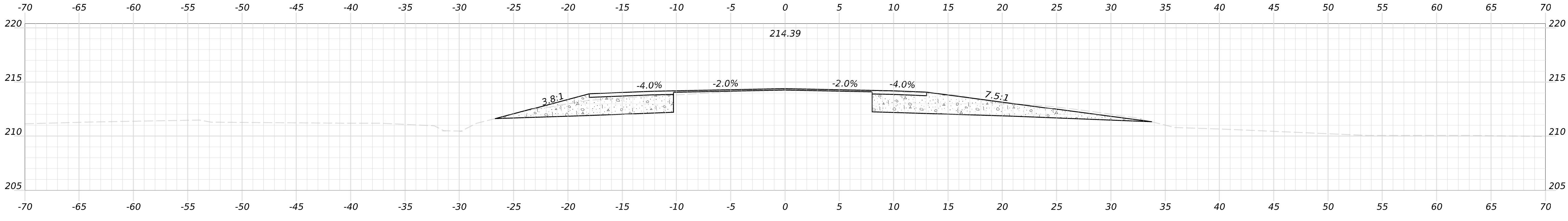
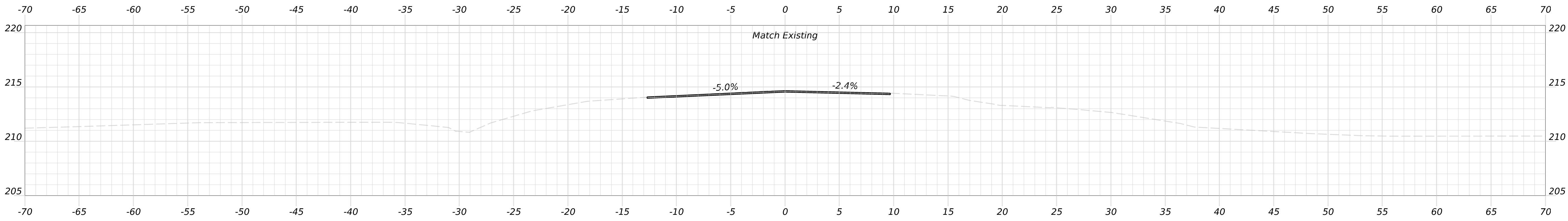
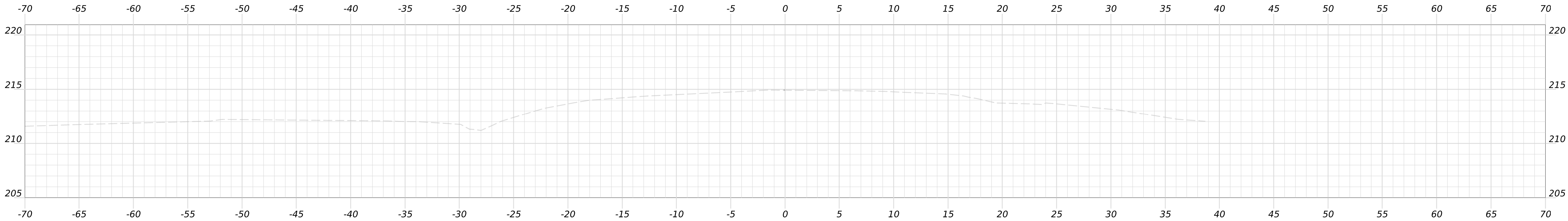
STATE OF MAINE DEPARTMENT OF TRANSPORTATION Federal Project No. 2647600	SIGNATURE	
	P.E. NUMBER	
	BRIDGE NO.	WIN 026476.00
BRIDGE PLANS		

PROJ. MANAGER	DESIGN-Detailed	CHECKED-Reviewed	BY	DATE
D. TAYLOR	W. CASEY			
DESIGN-Detailed	DESIGN-Detailed	DESIGN-Detailed		
REVISIONS 1	REVISIONS 2	REVISIONS 3		
REVISIONS 4	FIELD CHANGES			

CORINNA
MULLIGAN STREAM BRIDGE

CROSS SECTIONS

SHEET NUMBER
15
OF 19



PROJ. MANAGER	CHECKED-REVIEWED	DESIGNED-DETAILED	BY	DATE
D. TAYLOR	W. CASEY			
DESIGNED-REVIEWED	DESIGNED-DETAILED	DESIGNED-DETAILED		
REVISIONS 1	REVISIONS 2	REVISIONS 3		
REVISIONS 4	FIELD CHANGES			

CORINNA
MULLIGAN STREAM BRIDGE

CROSS SECTIONS

1. The precast units shall be designed to carry construction loadings with a minimum fill cover of 18 inches at the roadway centerline and 12 inches at edge of pavement over the top of the units.
2. A split "clamshell" style culvert is acceptable for this project.
3. In accordance with Standard Specification Subsection 534.04, Precast Structural Concrete, the Contractor shall submit design calculations for the precast structure to the Department for review. The calculations shall demonstrate that the factored bearing pressures at the Strength Limit and Service Limit States do not exceed the factored geotechnical bearing resistances provided in the project Geotechnical Design Report.
4. The Contractor shall maintain the excavation so that the box culvert and culvert bedding layer are installed in-the-dry. Groundwater shall be controlled by pumping from sumps or other dewatering systems selected by the Contractor. Cofferdams may be required to divert flow away from the excavation during construction.
5. It is anticipated that a Swamp Deposit will be encountered below the culvert bearing elevation and extend up to 2 feet below the bottom of the culvert bedding layer.

6. The box culvert will bear on a 2-foot thick layer of Underdrain Backfill Material, Type C (Culvert Bedding Stone) separated from the native material on the bottom and sides by Stabilization/Reinforcement Geotextile. Prior to placing the Stabilization/Reinforcement Geotextile and culvert bedding material, all unsuitable clay, silt or organics from the Swamp Deposit shall be removed and replaced with Underdrain Backfill Material, Type C.
7. The native soil subgrade shall be excavated using a smooth-edged bucket and to avoid disturbance of the subgrade. The contractor shall not operate heavy equipment over the excavated subgrade to minimize subgrade disturbance. Limit vibration-induced disturbance to the saturated subgrade. If the subgrade is disturbed, weakened, or overexcavated, the Contractor shall excavate the disturbed material and replace with compacted Underdrain Backfill Material, Type C, to the subgrade level at the Contractor's expense.
8. The Stabilization/Reinforcement Geotextile shall be deployed onto the prepared subgrade prior to installing the culvert bedding material. Adjoining sections of the geotextile shall be overlapped by a minimum of 2 feet. The culvert bedding material shall be placed in maximum 6-inch-thick lifts and each lift compacted with several passes of a walk-behind roller or large plate compactor.



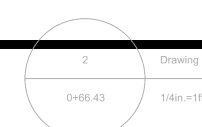
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CHECKED/REVIEWED					
DESIGN2-DETAILED2					
DESIGN3-DETAILED3					
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REVISIONS 2					
REVISIONS 3					
REVISIONS 4					
FIELD CHANGES					
SIGNATURE					
P.E. NUMBER					
DATE					
BRIDGE NO. 6160		WIN		BRIDGE PLANS	
Federal Project No. 2647600		026076.00			

CORINNA MULLIGAN STREAM BRIDGE CULVERT SECTIONS

SHEET NUMBER

17

OF 19



1

ROAD CLOSED

TYPE III BARRICADE

2

ROAD CLOSED
0.70 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

3

ROAD CLOSED
0.70 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

4

ROAD CLOSED
0.70 MILES AHEAD
LOCAL TRAFFIC ONLY

TYPE III BARRICADE

5

ROAD CLOSED
500 FT

6

ROAD CLOSED
1000 FT

7

DETOUR AHEAD

8

Nokomis Rd
DETOUR
↑

9

Nokomis Rd
DETOUR
→

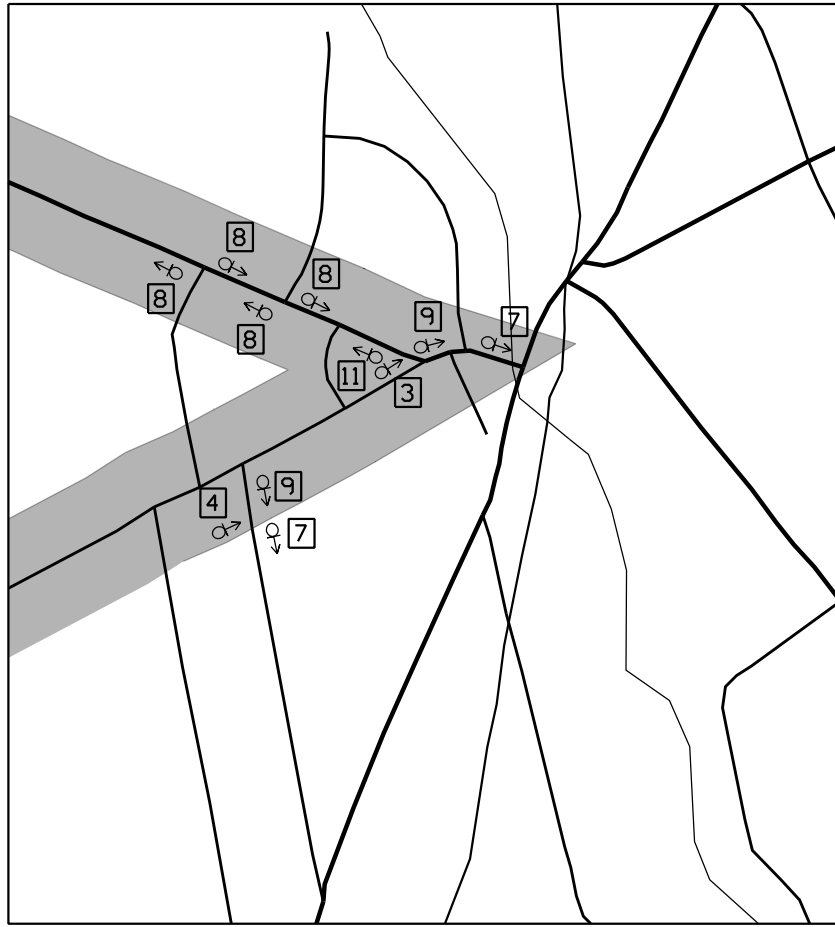
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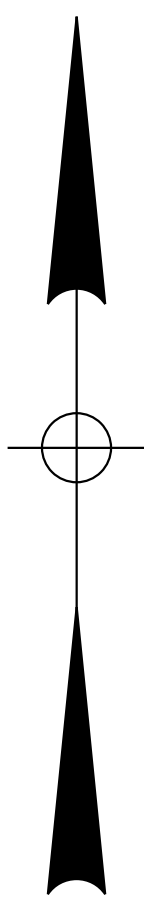
Nokomis Rd
DETOUR
←

11

Nokomis Rd
END DETOUR

INTERSECTION DETAIL





STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
Federal Project No. 2647600
WIN 026476.00
BRIDGE NO. 6160
BRIDGE PLANS

CORINNA
MULLIGN STREAM BRIDGE
OFF-SITE DETOUR MAP

SHEET NUMBER
18
OF 19

PROJ. MANAGER	D. TAYLOR	BY	DATE	SIGNATURE	P.E. NUMBER	DATE
DESIGNED/DETAILED						
CHECKED/REVIEWED	W. CASEY					
DESIGNED-DETAILED2						
DESIGNED-DETAILED3						
REVISIONS 1						
REVISIONS 2						
REVISIONS 3						
REVISIONS 4						
FIELD CHANGES						

Filename: C:\Users\William.Casey\State of Maine\MaineDOT Work - 26476_00\BRIDGE\Detour Plan 2_REV1.dgn

