SINGLE PRECAST CO VAR GILLETT

COR

0433022

DESIGN DATA

SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, 8th Edition.

<u>ADT</u>: 940 (Year 2020)

LOADING:

Live Load: HL93 Lateral live load surcharge: 2 ft earth or 72 psf Dead Load: Design fill: 2.6 ft at Sta 438+50 3.6 ft at Sta 674+27 Vertical earth pressure: 120 pcf Lateral earth pressure: 72 pcf

REINFORCED CONCRETE: Load and Resistance Factor Design -Class A Concrete $f'_c = 4000 \text{ psi}$ Reinforcing Steel $f_y = 60,000$ psi (Grade 60)

PRECAST CONCRETE: Load and Resistance Factor Design -Class A Concrete $f'_c = 5000 \text{ psi}$ Reinforcing Steel $f_y = 60,000$ psi (Grade 60)

APPROACH ROADWAY WIDTH: 36'-0"

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900.60000 CC	ONTRACTOR (QUALITY CONT	FROL (CONCRE	ETE)	LS	LUMP SUM		LUMP SUM		
						F			ROGRAM	
						REVIEW	D			0007 Sheet 1 of 4

4.01 I. Example

Section 4.01 I. Preliminary



GENERAL NOTES

- SPECIFICATIONS: WYDOT Standard Specifications for Road and Bridge Construction, 2010 Edition.
- DIMENSIONS: Longitudinal dimensions are along flow line. Slopes are vertical : horizontal.
- REINFORCING STEEL: Ensure reinforcing steel conforms to ASTM A 615 (Grade 60) for all bars, including ties and stirrups. Concrete cover to face of reinforcing steel is 2" unless noted. Dimensions for bent bars are out to out. Ensure bars marked with an asterisk (*) are coated. BAR MARKS

Straight Bars Bent Bars — Designation Size -🗩 Length Size – 508-3 4A2

PRECAST BOX CULVERTS: Design precast boxes for the loading specified. Ensure the title pages of the design computations and shop plans bear the seal and signature of a professional engineer.

The minimum concrete cover to the face of the main reinforcing steel is 1 1/2" and 1" to other reinforcing steel unless noted.

SLOPED END SECTIONS, PARAPETS, AND CUTOFF WALLS: The length of precast sloped end sections is included in the estimated quantity for the contract pay item Precast Box Culverts 8 x 8 ft.

Work necessary for the precast parapets and cutoff walls is incidental to the contract pay item Precast Box Culverts 8 x 8 ft.

JOINT SEALANT: Use joint sealant conforming to AASHTO M 198. Work necessary for the joint sealant is incidental to the contract pay item Precast Box Culverts 8 x 8 ft.

- EYEBOLTS: Use galvanized bar conforming to ASTM A 709 (Grade 36). Work necessary for the eyebolts is incidental to the contract pay item Class A Concrete.
- WEEP HOLE ASSEMBLIES: Work necessary for the weep hole assemblies is incidental to the contract pay item Class A Concrete.
- PREFORMED EXPANSION JOINT FILLER: Work necessary for the preformed expansion joint filler is incidental to the contract pay item Class A Concrete.
- REMOVAL OF RC BOX CULVERTS: At Sta 674+27, remove the existing double barrel 10'-0" x 10'-0" x 41'-0" reinforced concrete box culvert, Structure No. CHC.
- CULVERT EXCAVATION: The estimated quantity of culvert excavation at Sta 438+15 is 240 CY and is incidental to the contract pay item Precast Box Culverts 8 x 8 ft.

The estimated quantity of culvert excavation at Sta 674+27, including removal of the existing culvert and excavation for the new culvert, is 520 CY and is incidental to the contract pay item Removal of RC Box Culverts.

- EPOXY RESIN BONDING COMPOUND: At Sta 674+27, Clean the exposed ends of the precast culvert end sections and coat with epoxy resin bonding compound. If the bonding compound gels before concrete placement, remove by sandblasting and reapply. Use bonding compound conforming to Subsection 810.6, Epoxy Resin. Mix and apply in accordance with the manufacturer's recommendations. Work necessary for the epoxy resin bonding compound is incidental to the contract pay item Class A Concrete.
- BRIDGE OFFICE NOTIFICATION: The engineer will notify the State Bridge Engineer in writing within 14 calendar days after the existing culvert has been removed.

Drainage Area --Structure Slope Description of Cha Drift Potential ---Ordinary High Wat Headwater Elevat

Outlet Velocity --Design Frequency Design Discharge Review Discharge Source of Dischar Method of Analysis Flood of Record

WYDOT Plans: Sheet No. Sta 674+27 Bridge Drwg No. 2208 ----- 1 of 1 Supplementary Specifications: SS-100K Adjustment for Structural Steel SS-500G Structural Concrete with Quality Control and Quality Acceptance

Standard Plans: 206-1A

Wyo. Proj.	0433022 P533034	
Sheet	of	Sheets

STREAM DATA - STA 674+27

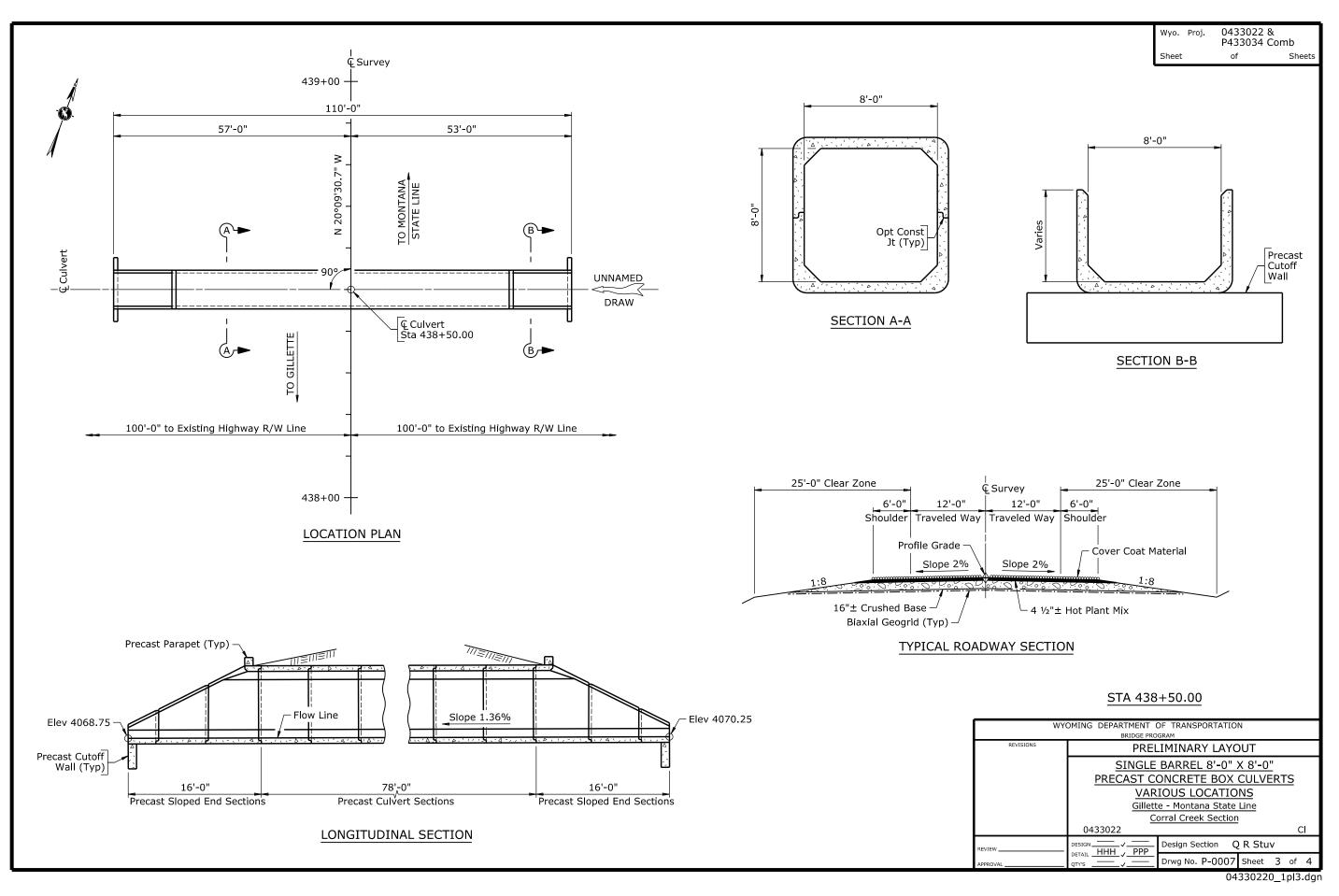
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REFERENCES

Culvert and Trench Excavation

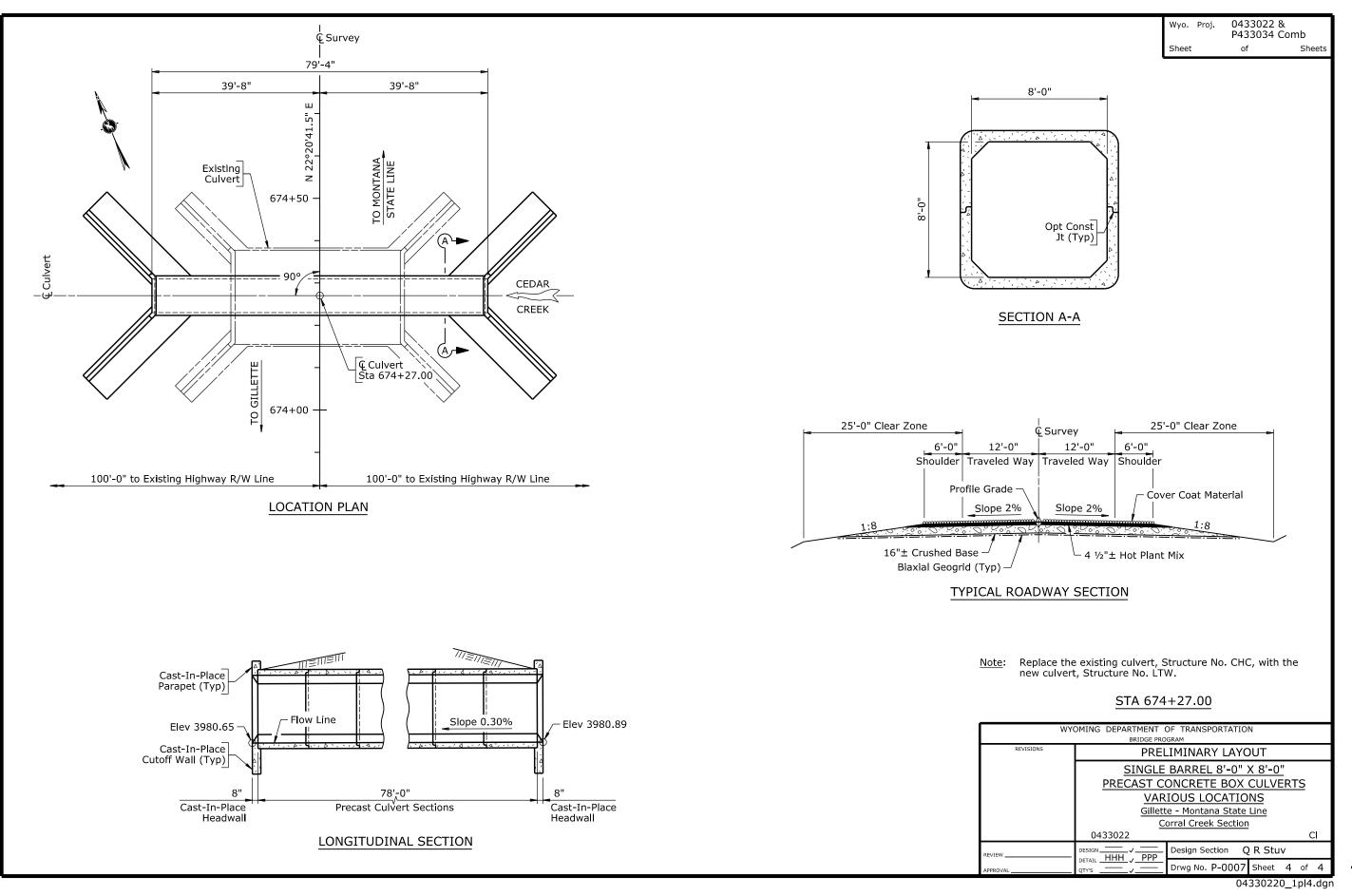
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VISIONS	PRELIMINARY GENERAL NOTES								
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		Drwg No. P-000)7 Sheet 2	of 4					
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4.01 - Example

Section 4.01 - Preliminary



4.01 - Example

Section 4.01 - Preliminary

SINGLE PRECAST CC VAR] GILLETT COR

0433022

DESIGN DATA

SPECIFICATIONS: AASHTO LRFD Bridge Design Specifications, 8th Edition.

<u>ADT</u>: 940 (Year 2020)

LOADING:

Live Load: HL93 Lateral live load surcharge: 2 ft earth or 72 psf

Dead Load: Design fill: 2.6 ft at Sta 438+50 3.6 ft at Sta 674+27 Vertical earth pressure: 120 pcf Lateral earth pressure: 72 pcf

REINFORCED CONCRETE: Load and Resistance Factor Design -Class A Concrete $f'_c = 4000 \text{ psi}$ Reinforcing Steel $f_y = 60,000$ psi (Grade 60)

PRECAST CONCRETE: Load and Resistance Factor Design -Class A Concrete $f'_c = 5000 \text{ psi}$ Reinforcing Steel $f_y = 60,000$ psi (Grade 60)

APPROACH ROADWAY WIDTH: 36'-0"

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Section 4.02 1 General Notes



GENERAL NOTES

- SPECIFICATIONS: WYDOT Standard Specifications for Road and Bridge Construction, 2010 Edition.
- DIMENSIONS: Longitudinal dimensions are along flow line. Slopes are vertical : horizontal.
- REINFORCING STEEL: Ensure reinforcing steel conforms to ASTM A 615 (Grade 60) for all bars, including ties and stirrups. Concrete cover to face of reinforcing steel is 2" unless noted. Dimensions for bent bars are out to out. Ensure bars marked with an asterisk (*) are coated.

BAR MARKS



- PRECAST BOX CULVERTS: Design precast boxes for the loading specified. Ensure the title pages of the design computations and shop plans bear the seal and signature of a professional engineer.
 - The minimum concrete cover to the face of the main reinforcing steel is 1 1/2" and 1" to other reinforcing steel unless noted.
- SLOPED END SECTIONS, PARAPETS, AND CUTOFF WALLS: The length of precast sloped end sections is included in the estimated quantity for the contract pay item Precast Box Culverts 8 x 8 ft.
 - Work necessary for the precast parapets and cutoff walls is incidental to the contract pay item Precast Box Culverts 8 x 8 ft.
- JOINT SEALANT: Use joint sealant conforming to AASHTO M 198. Work necessary for the joint sealant is incidental to the contract pay item Precast Box Culverts 8 x 8 ft.

- EYEBOLTS: Use galvanized bar conforming to ASTM A 709 (Grade 36). Work necessary for the eyebolts is incidental to the contract pay item Class A Concrete.
- WEEP HOLE ASSEMBLIES: Work necessary for the weep hole assemblies is incidental to the contract pay item Class A Concrete.
- PREFORMED EXPANSION JOINT FILLER: Work necessary for the preformed expansion joint filler is incidental to the contract pay item Class A Concrete.
- REMOVAL OF RC BOX CULVERTS: At Sta 674+27, remove the existing double barrel 10'-0" x 10'-0" x 41'-0" reinforced concrete box culvert, Structure No. CHC.
- CULVERT EXCAVATION: The estimated quantity of culvert excavation at Sta 438+15 is 240 CY and is incidental to the contract pay item Precast Box Culverts 8 x 8 ft.

The estimated quantity of culvert excavation at Sta 674+27, including removal of the existing culvert and excavation for the new culvert, is 520 CY and is incidental to the contract pay item Removal of RC Box Culverts.

- EPOXY RESIN BONDING COMPOUND: At Sta 674+27, Clean the exposed ends of the precast culvert end sections and coat with epoxy resin bonding compound. If the bonding compound gels before concrete placement, remove by sandblasting and reapply. Use bonding compound conforming to Subsection 810.6, Epoxy Resin. Mix and apply in accordance with the manufacturer's recommendations. Work necessary for the epoxy resin bonding compound is incidental to the contract pay item Class A Concrete.
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Drainage Area --Structure Slope Description of Cha Drift Potential ---Ordinary High Wat Headwater Elevat

Outlet Velocity --Design Frequency Design Discharge Review Discharge Source of Dischar Method of Analysis Flood of Record

WYDOT Plans: Sta 674+27 Bridge Drwg No. 2208 ----- 1 of 1 Supplementary Specifications: SS-100K Adjustment for Structural Steel SS-500G Structural Concrete with Quality Control and Quality Acceptance

Standard Plans: 206-1A

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STREAM DATA - STA 674+27

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Q ₁₀₀	3992.5 ft
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/	
Q ₂₅	655 cfs
e Q ₁₀₀	1290 cfs
ge ¹⁰⁰ Floodflow Characteristi	cs of Wyoming Streams
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	Unknown

REFERENCES

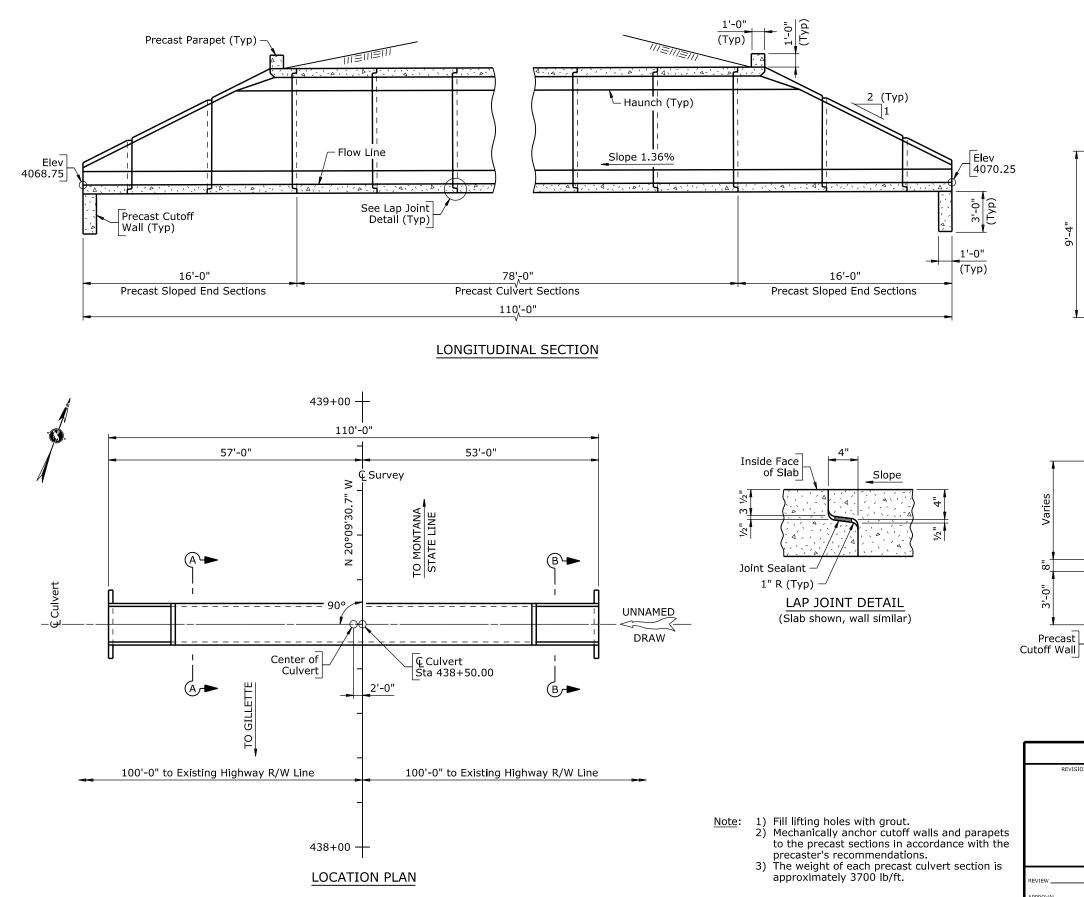
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Culvert and Trench Excavation

WY	WYOMING DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM								
VISIONS	GENERAL NOTES								
	SINGLE	BARREL 8'-0"	<u>X 8'-0</u> "						
	PRECAST CO	ONCRETE BOX	CULVERTS						
	VAR	IOUS LOCATIC	<u>DNS</u>						
	<u>Gillett</u>	e - Montana State	Line						
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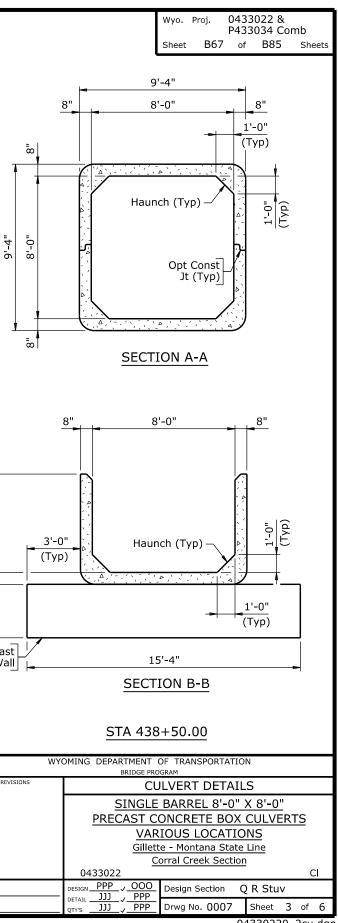
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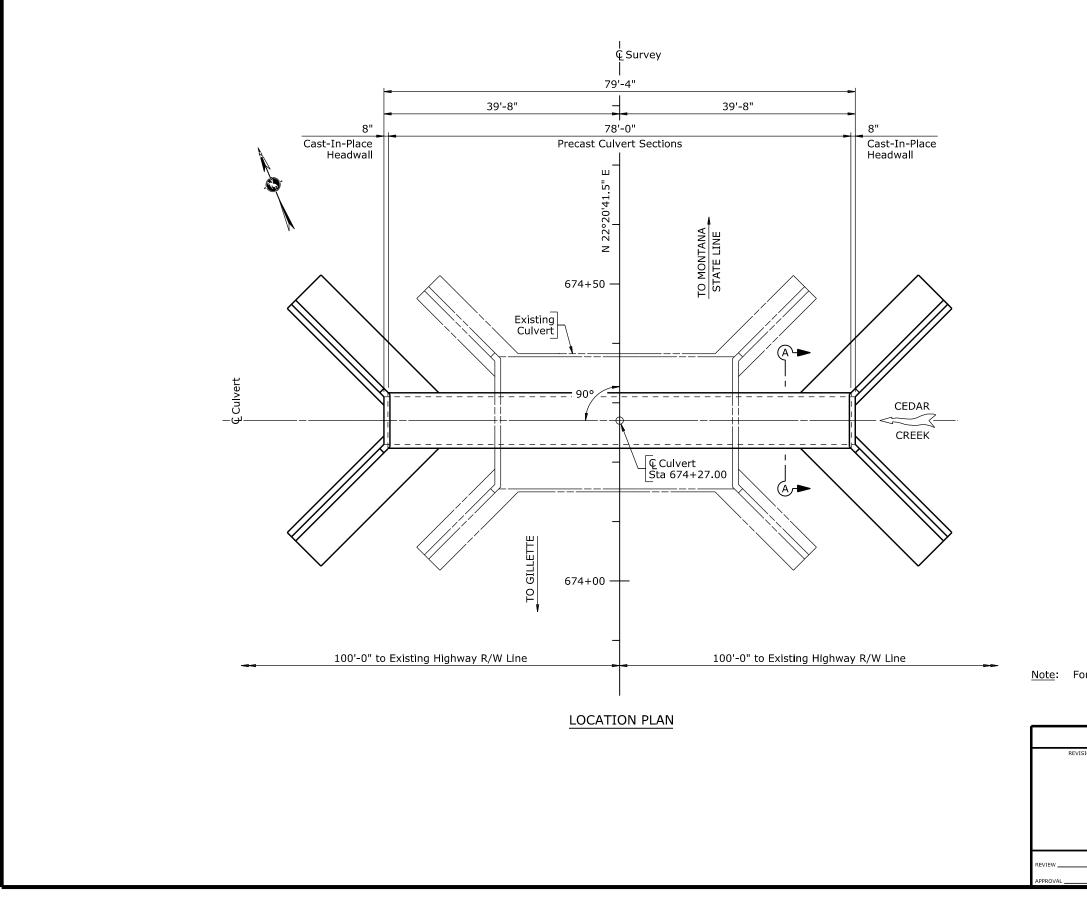
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S ection 4 н J I Culverts

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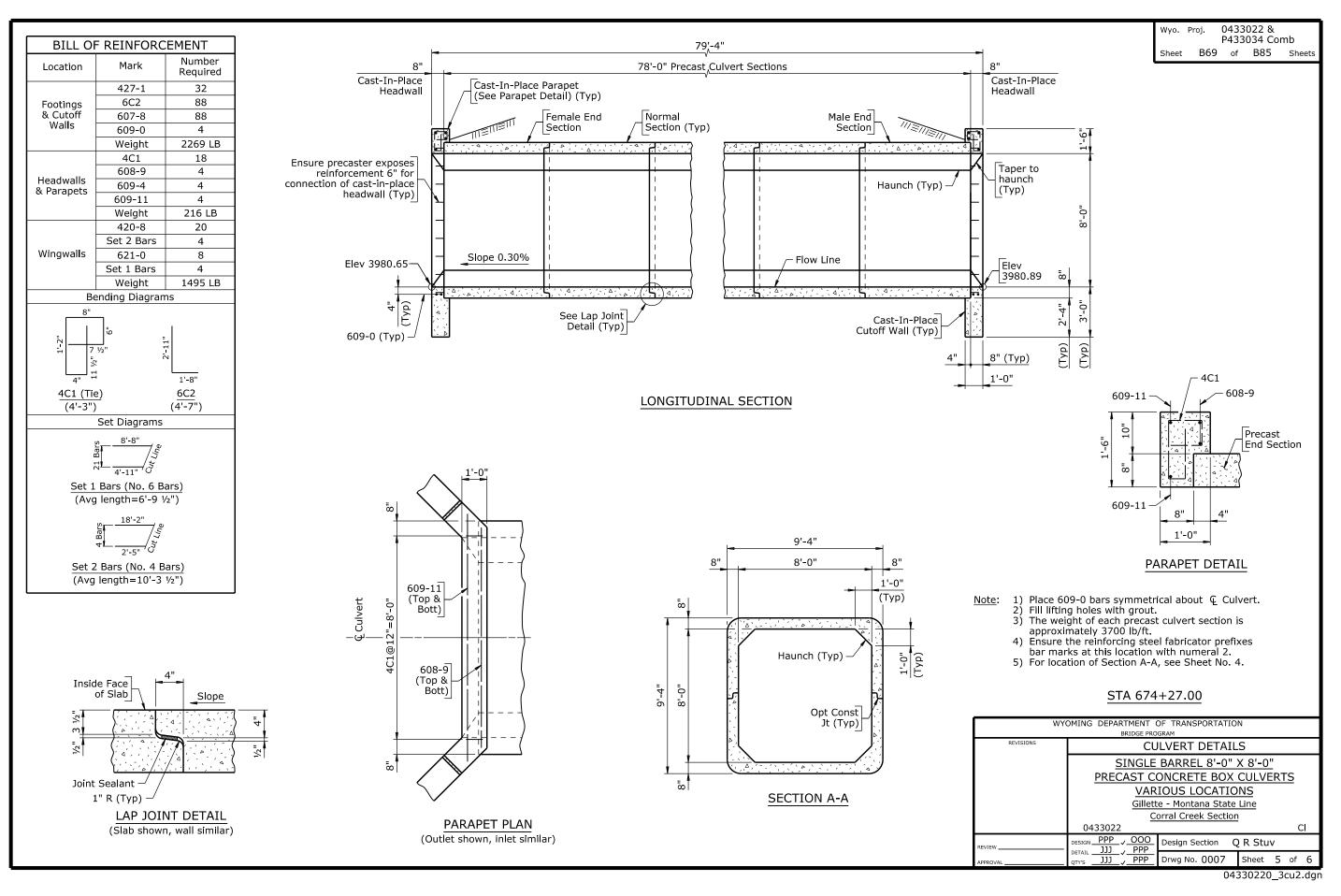


4.1 N I. Example

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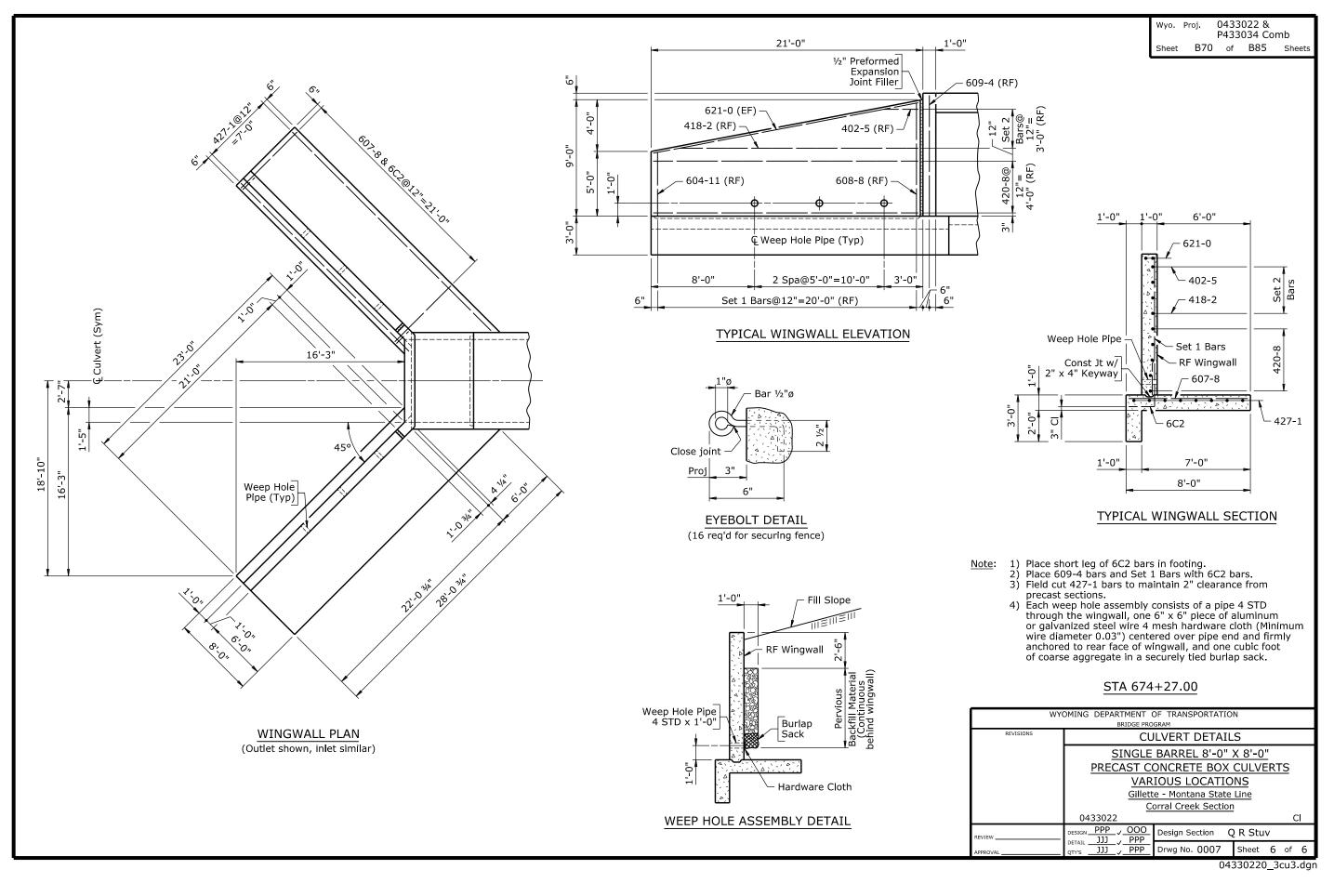
Section 4.17 I Culverts

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4.17 - Example

Section 4.17 - Culverts



4.17 - Example

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