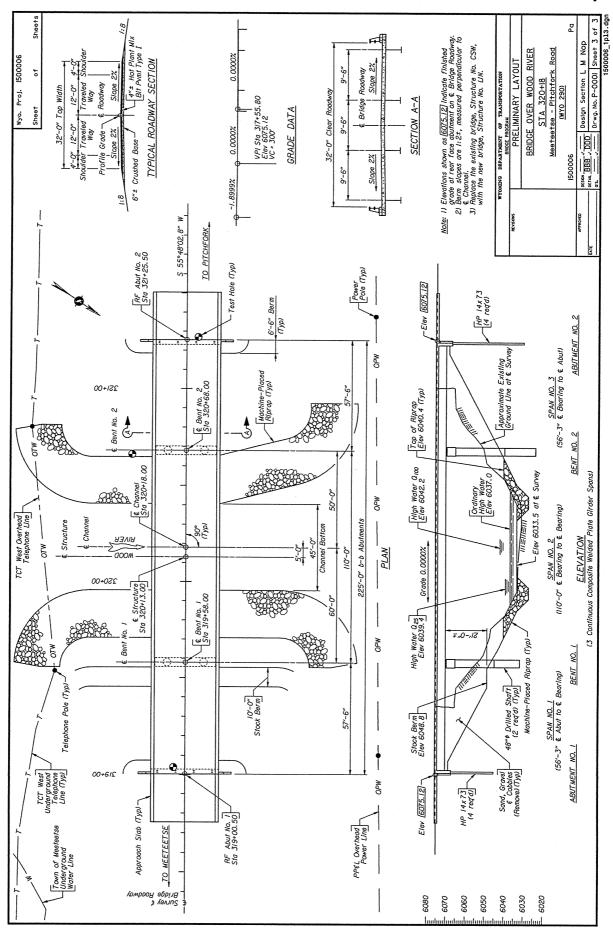


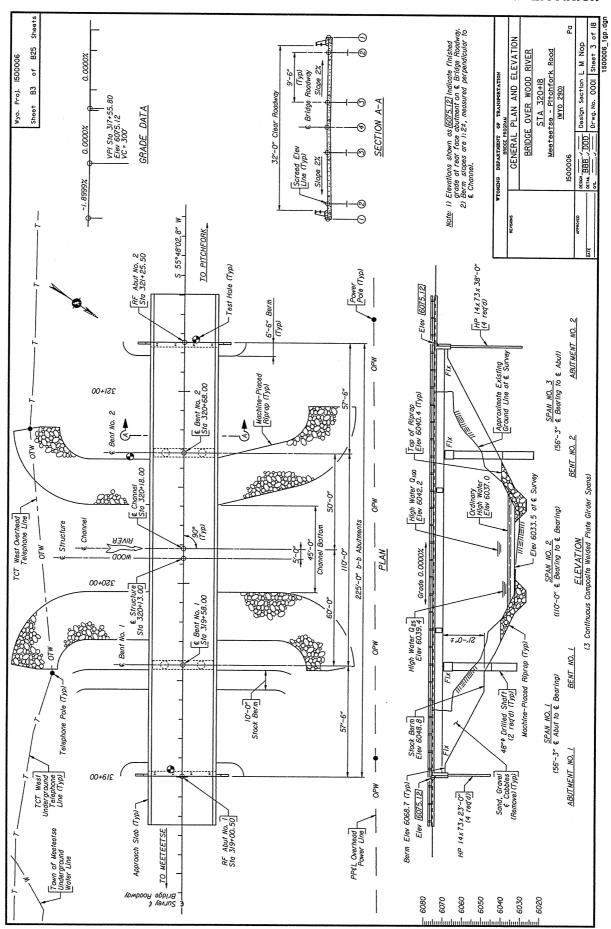
OVER WOOD RIVER	STA 320+18 MEETEETSE - PITCHFORK ROAD		PARK COUNTY	DESIGN DATA	<u>SPECIFICATIONS:</u> AASHTO's Standard Specifications for Highway Bridges, ITth Edition	<u>ADT</u> : 260 (Year 2020)	<u>LOADING</u> : HS25. Future wearing surface 18 psf. Stay-in-place forms 15 psf.	REINFORCED CONCRETE: Load Factor Design -	Closes A contrarter f_0 = 3 foot pol Closes B Contrater f_0 = 3 foot pol ReInforcing Steet f_y = 60,000 pst (Grade 60)	Γ_{f} = 40,000 psi lorade 40) $STRUCTURAL\ STEEL$: Load Factor Design – F_{V} = 50,000 psi (Grade 50W)	APPROACH ROADWAY WIDTH: 32-0"	DAILLED SHAFTS: Allowable Stress -	Bents (Per drilled shaft) Total Load = X T	Bearing X T Friction = X T		PILE LUADS: Allowable Stress – Abutments, X T per pile	BEARING LOADS: Bents =	Service Dead Load = X kips Service Ine Inel Park				SI RUCI UNE NO. LIN, RM 6.04 SFC 22 TARN RIDIW	מבס בבי וומנו	WYOMENG DEPARTMENT OF TRANSPORTATION BRIDGE PROGRAM	surroux .	APPROVED DESIGN CHEFF	out Orwg. No. P-000 Sheet of 3
WOO	320 + 18 ITCHFC	(WYO 290)	PRELIMINARY										TAL ESTIMATE			П	SOM					T	Т	SUM CY			
OVER	STA TSE - P	(WY)	PRELI									CODE 11-CSW	UNIT TOTAL	\parallel	25.6	H	FT LUMP SUM	F7 E4	FT	SY	Ċ) 	MOS AMA ST		MUS LUMP SUM	F7 F7	
BRIDGE	MEETEE		1500006	INDEX OF DRAWINGS	Sheet No.		+ to y	Log Double 3 mare Abutment Defalls7 Bent Defalls8				ESTIMATED QUANTITIES -	ITEM	REMOVAL OF STEEL BRIDGES	GEOTEXTILE, EROSION CONTROL	GEOTEXTILE, EMB AND RETAINING WALL	BRIDGE RAILING	PREDRILLED HOLES		REINFORCED CONC APPROACH SLABS	יונד	MACHINE-PLACED RIPRAP ELASTOMERIC COMP JOINT SEAL	CLASS A CONCRETE	CLASS B CONCRETE	REINFORCING STEEL (COATED)	UNDERDRAIN PIPE (PERF) 6 IN UNDERDRAIN PIPE (NON-PERF) 6 IN	
				INDEX O	Drawing: Title Sheet	General Mores	Substitution Layou Riprop Defalls	Loy bon my shear Abutment Defalls Bent Defalls	Superstructure Details	Stab Detaits — — — — — — — — — — — — — — — — — — —			ITEM NO.	202.03210	277.01010	217.01030	503.01000	504.04000	504.11473	507.01000	507.01100	512.06000	5/3.00005	5/3.000/5	514,00025	605,10006	

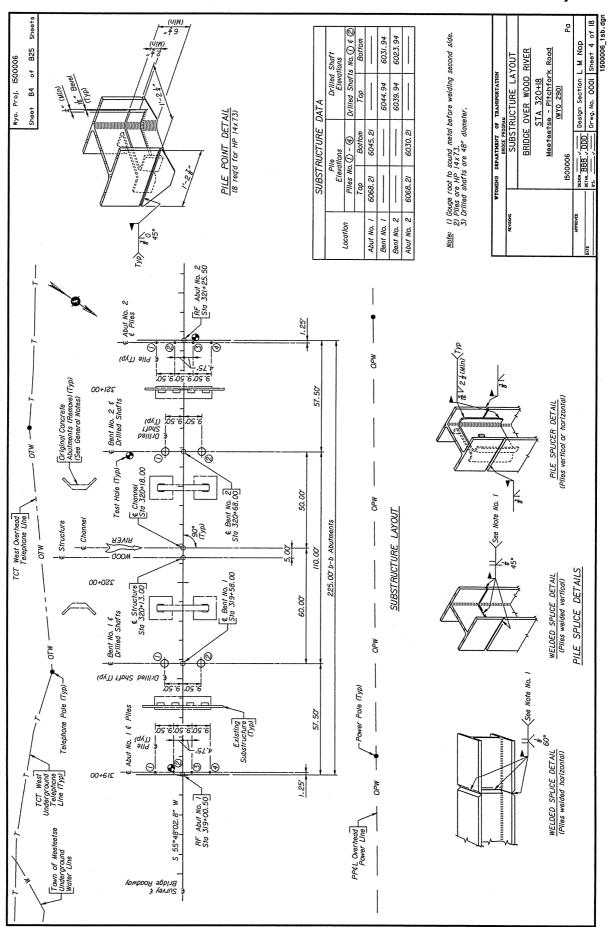
1500006 1012.dar		
APPROVED SECRET CCC - FFF Design Section L M Nop		
Pd 9000051		pay item Structural Steel.
Meeteetse - Pitchfork Road		threaded rod conforms to M. A. 307, grade C or ASTM F. 1554, grade 36. Work necessary for the anchorace system is incidental to the contract
BRIDGE OVER WOOD RIVER		by deforming the steel through application of pressure, and not by any
PRELIMINARY GENERAL		is may be swedge bolts or threaded rod. Ensure swedge bolts form to ASTM A 709 (Grade 36). Fosure the swedges are produced
		Use anchor bolts compatible with the adhesive product. Prepare holes and set anchor bolts as recommended by the manufacturer. Anchor
		ACIVO Flus/AC.3. Flus as manucatured by Fowers Fasteners, Inc. Sure-Anchor I (J-51) as manufactured by Dayron Superior FRE CAZI Epoxy Anchor as manufactured by Hilli, Inc. HT HT 150 System as manufactured by Hilli, Inc.
		BRIDGE BEARING ANCHOR BOLTS: Use one of the following adhesive analysis systems for estiling anahor bolts: Epox Anahoring Systems as manufactured by Covert Operations Epox Anahoring Systems as manufactured by Covert Operations System as manufactured by TTW Ransest/Red Head
	BRIDGE_OFFICE_NOTIFICATION: The engineer will notify the State Bridge Engineer in writing within 4 colendar days after the existing structure has been removed and again within 14 calendar days after the new structure has been opened to traffic.	<u>EXEBOLIS</u> : Use galvanized bar conforming to ASTM A 709 (Grade 36). Work necessary for the eyebolts is incidental to the contract pay them class B Concrete.
	forms and obtaining bankers, including form defrection. Do not extend the vertical legs of support angles post the bottom of the bottom reinforcing steel mat or use these legs to support the reinforcing steel.	ELASTOWERIC COMP. JOINT. SEAL: Provide one of the following products: CV-40X0 as manufactured by The D.S. Brown Co. WJ-400 as manufactured by Watson Bowman Acne Corp.
Method of AnalysisHEC-RAS and WSP Flood History5080 ofs (Rear 1953)	STAY-IN-PLACE FORMS: Stoy-in-place stab forms may be used for construction of the deek. Do not exceed 15 ps from the weight of the construction of additional constructions.	STEEL PILING: Use steel piling conforming to ASTM A 709 (Grade 50).
Lesign Uscharge 4 ₂₅ ————————————————————————————————————	<u>PILE POINTS</u> : Fit the piles with pile points unless predrilled holes are used.	ruoriculari uperutuals un competea, ensure competea un accordance with Steps Byrucular Spainfall Council Surface Preparation Seccification (SSPC-SP 6).
Constricted Velocity $Q_{2s} =$	PREDRILLED HOLES: If any pile falls to achieve the bottom of pile elevations shown, predrill the remaining plies to the elevations shown. The estimated quantity of predrilled holes is aclouded from the bottom of abutment cap to the bottom elevation of each pile.	Category Major Steel Bridges (CBR). Ensure steel components of the deck drain system conform to ASTM A 709 (Grade 50W) minimum and ASTM A 53 (Grade A or B). After
Ordinary High Water Elevation	An adequate seal between the casing and bedrock may notbe possible and pouring concrete under water should be anticipated. The presence of very dense gravel and cobble lenses may result in difficult drilling.	STRUCTURAL STEEL: Ensure structural steel conforms to ASTM A 709 (Grade 50H) unless noted. Ensure steel fabricators supplying structural commonents are nearlifled under the AISC Duritly Certification Procum.
Channel Stope	Bants are on drilled shafts founded in bedrock. Casing will be necessory to prevent counts of the granular materials and to controlgroundwater.	Size Length Size Designation 5/22 - Designation
1 1	EQUNDATIONS: Abutments are on steel piles driven to refusal in bedrook.	Straight Bars Bent Bars
STREAM DATA	DRY EXCAVATION: The estimated quantity of dry excavation is calculated below finished grade to the limits shown at approach slabs and below existing ground line at abutments.	REINFORCING_STEEL: Concrete cover to face of reinfarcing steel is 2" unless noted. Dinensions for bent bars are out to out. Ensure bars marked with an asterisk (*) are coated.
Bridge Drwg No. 2727	MISCELLANGEOUS REMOVAL: Work necessary to remove and dispose of the car bodies along the river bank adjacent to the existing bents is incidental to the contract pay frem Machine-Placed Riprap.	CONCRETE: Use class A concrete in the deck. Use class B concrete made with type II Wyaming modified cement at all other locations.
Automatically End-Weided Studs	<u>REMOVAL OF STEEL BRIDGES</u> : Remove the existing three span 165'-6"x 27'-0" steel girder bridge, Structure No. CSW.	
Supplementary Specifications: SS-500B Welder Qualification Rev 12-7-04 SS-500C Bridge Bearing Correllion Rev 7-9-04 CC-CC Advanced on the April 1997 Apri	HAZARDOUS MATERIALS. The paint system on the steel components of the existing structure contains materials including lead and chromium which are hazardous if ingested, inhaled, or otherwise absorbed.	SPECIFICATIONS: WYDOT Standard Specifications for Road and Bridge Construction, 2003 Edition DIMENSIONS: Londinulised dimensions for the substructure are holizoital
REFERENCES	NOTES	GENERAL NOTES
Wyo. Proj. I500006 Sheet of Sheets		
1 1500008		



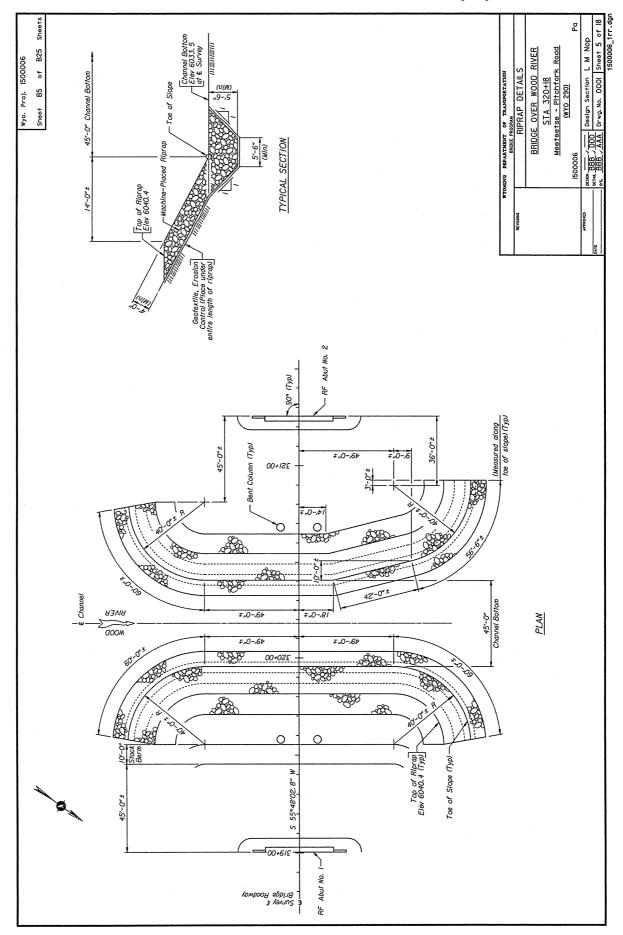
	Wyo. Proj. 15000
BRIDGE OVER WOOD RIVER	DD RIVER
STA 320 + 18	
MEETEETSE - PITCHFORK	ORK ROAD
(WYO 290)	
1500006	PARK COUNTY
INDEX OF DRAWINGS	DESIGN DATA
Drawing: Title Sheet	SPECIFICATIONS: AASHTO's Standard Specifications for Highway Bridges, ITth Edition
	ADT: 260 (Year 2020)
1	10.000 DC95 Entering analysis and the control of th
	LUALINGS 115.25. FUTURE WEATING SULFACE 18 PSF. STOY-IN-PLACE TOTMS 15 PSF.
1 1	REINFORCED CONCRETE: Load Factor Design -
	Class A Cultrete C = J130 psi Class B Concrete f C = 3250 psi Reinforcing Steef f C = 60,000 psi (Grade 60)
1 1 1 1 1 1 1 1	$f_y^2 = 40,000 \text{ ps} (6 \text{rade } 40)$
1 1	STRUCTURAL STEEL: Load Factor Design – $F_{y}=50,000$ psi (Grade 50N)
	APPROACH ROADWAY WIDTH: 32"-0"
ESTIMATED QUANTITIES - CODE 11-CSW	DRILLED SHAFTS: Allowable Stress -
ITEM NO. ITEM OUNIT TOTAL ESTIMATE	Bents (Per drilled shaft) Total Lord = 24 57 T
REMOVAL OF STEEL BRIDGES EA	Bearing = 24 T Friction = 0.57 T
GEOTEXTILE. EROSION CONTROL	
GEOTEXTILE, EMB AND RETAINING WALL SY 1590	PILE LOADS: Allowable Stress – Abutments, 63 T per pile
501.000 STRUCTURAL STEEL LS LUMP SUM 182,200 LB	and rad a particular.
PREDRILLED HOLES FT	CCARING LUALUS: Bellis - Service Dead Load = 85.80 klps
PILE SPLICES EA	Service Live Load = 67.23 kips
STEEL PILING HP 14 X /3 DRILLED SHAFT FOUNDATIONS 48 in	
REINFORCED CONC APPROACH SLABS	
BRIDGE APPROACH BACKFILL CY	CONTRACTOR AND
51. COOKO ELASTONERIC COMP JOHN SEAL FT 733	SI RUCI URE NO. LIN, RM 6.04
CLASS A CONCRETE LS LUMP SUM	350 26, 146N, KIUIW
CLASS B CONCRETE LUMP SUM	WYOMING DEPARTMENT OF TRANSPORTATION BROCE PROGRAM
514.000/5 REINFORCING STEEL LS LUMP SUM 22,940 LB ST4 00005 REINFORCING STEEL LS LUMP SUM 22,940 LB	RETIGENS
UNDERDRAIN PIPE (PERF) 6 In FT 70	CINDRAFT CONTRACTOR CO
UNDERDRAIN PIPE (NON-PERF) 6 In	CESSON BBB VDDD
	os Drwg. No. 000I
	1500006_1ts.dgn

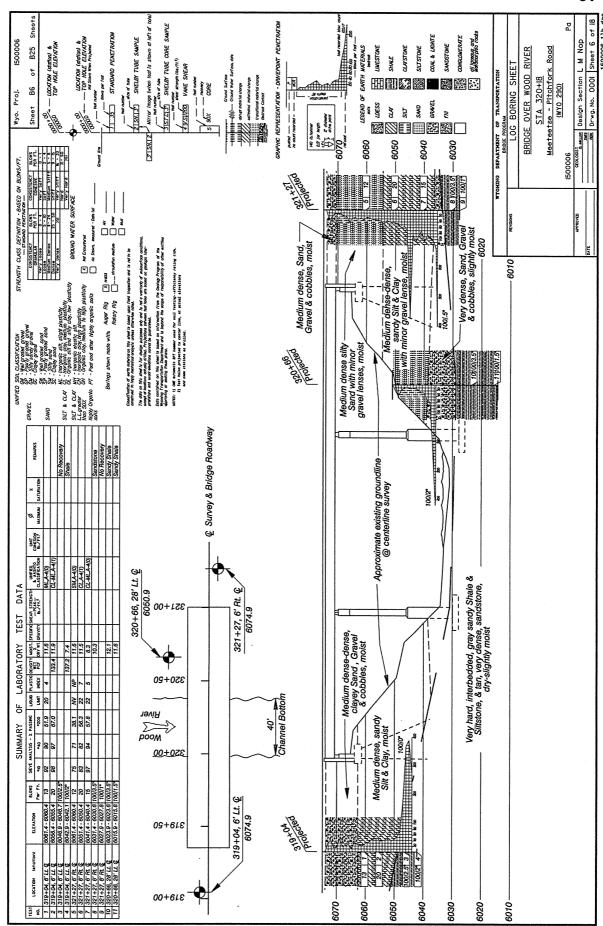
0 10 2 1981 C 1000 :00: 60 10		
bit orange of the base of the		
1500006		pay item Structural Steel.
Meetsetse - Pitchfork Road (WYO 290)		Work necessary for the anchorage system is incidental to the contract
STA 320+18		method such as grinding or cuiting that removes material. Ensure threaded rod conforms to M A 307, grade C or ASTM F 1554, grade 36.
BRIDGE OVER WOOD RIVER		by deforming the steel through application of pressure, and not by any
GENERAL NOTE		bolts may be swedge bolts or threaded rod. Ensure swedge bolts conform to ASTM A 709 (Grade 36). Ensure the swedges are produced
BROCE PROGRAM		and set anchor bolts as recommended by the manufacturer. Anchor
WTOMING DEPARTMENT OF TRANSPORTATION		
		Sure-Andror 1 (J-5)) as manufactured by Layton Superior HSE 2421 Epoxy Adhesive Anchor as manufactured by Hilli, Inc. HIT MY 160 Surfam as manufactured by Hilli Inc.
		Epoxy Anchoring Systems as monutractured by Covert Operations Epoxon System as monufactured by ITW Ramset/Red Head ACIOO Plus/ACS.5 Plus as manufactured by Powers Fasteners, Inc.
		BRIDGE BEARING ANCHOR BOLTS: Use one of the following anchorage systems for setting anchor bolts:
	BRIDGE OFFICE NOTIFICATION: The engineer will notify the State Bridge Engineer in writing within 14 calendar days after the existing structure has been removed and again within 14 calendar days after the new structure has been opened to traffic.	<u>EYEBOLTS</u> : Use galvanized bar conforming to ASTM A 709 (Grade 36). Work necessary for the eyebolts is incidental to the contract pay them Class B Concrete.
	To miss the doubled externed in the first state of the bottom in the vertical legs of support angles post the bottom of the bottom reinforcing steel and or use these legs to support the reinforcing steel.	ELASTOMERIC COMP. JOINT SEAL: Provide one of the following products: CV-4000 as anonifrontured by The D.S. Brown CO.W4000 as anonifrontured by Watson Bowmon Asme Corp.
Journal of Analysis	STAY-IN-PLACE FORMS: Stoy-in-place slab forms may be used for construction of the deck. Do not exceed 15 psf for the weight of the	STEEL PILING: Use steel piling conforming to ASTM A 709 (Grade 50).
Design Discharge Q ₂₅ 3056 ofs Review Discharge Q ₁₀₀ 4290 ofs	<u>PILE POINTS</u> : Fit the piles with pile points unless predrilled holes are used.	Tabrication obsertations are completed, ensure components are prepared in accordance with Steel Structures Pointing Council Surface Preparation Countification No. 6 Commercial Part Changa (SCE)—CE 61
Constricted Velocity 0 ₆₅₅	shown, predrii the famoining plies to the elevations shown. The estimated quantify of predrilled holes is calculated from the bottom of abument op to the bottom elevation of each pile.	Ensure steel components of the deck drain system conform to ASTM A 709 (Grade 50W) minimum and ASTM A 53 (Grade A or B). After
High Water Elevation Q_{25}	PREDRILLED HOLES. If any pile fails to achieve the bottom of pile elevations	components are certified under the AISC Quality Certification Program, Category Major Steel Bridges (CBR).
Headwater Elevation Q _{2s}	and pouring concrete under water should be anticipated. The presence of very dense gravel and cobble lenses may result in difficult drilling.	STRUCTURAL STEEL: Ensure structural steel conforms to ASTM A 709 (Grade 50W) unless noted. Ensure steel fabricators supplying structural
Ordinary High Water Elevation	to prevent caving of the granular materials and to controlgroundwater. An adequate seal between the casing and bedrock may notbe possible	508-3' 4A2'
Channel Slope 1.41% Description of Channel Material Sand, gravel and cobbles	Bents are on drilled shafts founded in bedrock. Casing will be necessary	Size
In vs U 861	EQUNDATIONS: Abutments are on steel piles driven to refusal in bedrock.	Straight Bars BAR MARKS Bent Bars
STREAM DATA	DRY EXCAVATION: The estimated quantity of dry excavation is calculated below finished grade to the limits shown at approach slabs and below existing ground line at abutments.	REINFORCING STEEL: Concrete cover to face of reinforcing steel is 2" unless nated. Dimensions for bent bars are out to out. Ensure bars marked with an asterisk (*) are coated.
Bridge Drwg No. 2/22	MISCELLANEOUS REMOVAL: Work necessary to remove and dispose of the car bodies along the river bank adjacent to the existing bents is incidental to the contract pay item Machine-Placed Riprap.	<u>CONCRETE</u> : Use class A concrete in the deck. Use class B concrete made with type II Wyoming modified cement at all other locations.
Automatically End-Welded Studs	REMOVAL OF STEEL BRIDGES: Remove the existing three span 165'-6"x 27'-0" steel girder bridge, Structure No. CSN.	<u>Comparations</u> to design the property of the superioral or the instantial of an including and include no correction for grade. Longitudinal dimensions for the superstructure are along grade unless noted. Slopes are vertical in harizontal.
Supplementary Specifications: SS-500B Weder Qualification Rev I2-7-04 SS-500E Bridge Bearing Correction Rev Z-5-04	HAZARDOUS MATERIALS: The point system on the steel components of the existing structure contains materials including lead and chromium which are hazardous if ingested, inhaled, or otherwise absorbed.	SPECIFICATIONS: WYDOT Standard Specifications for Road and Bridge Construction, 2003 Edition
REFERENCES	NOTES	GENERAL NOTES
Sheet B2 of B25 Sheets		
3000031 1579 AVW		

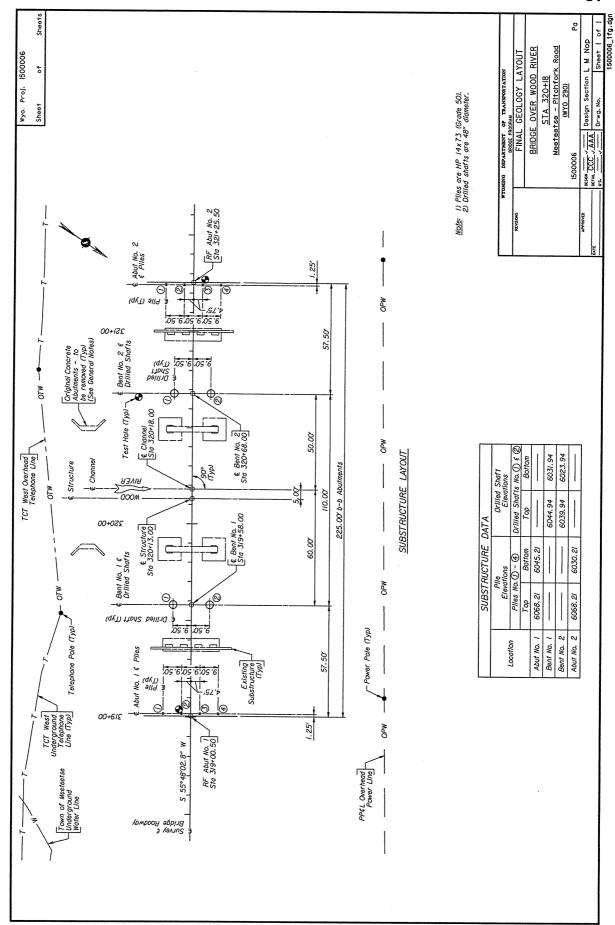


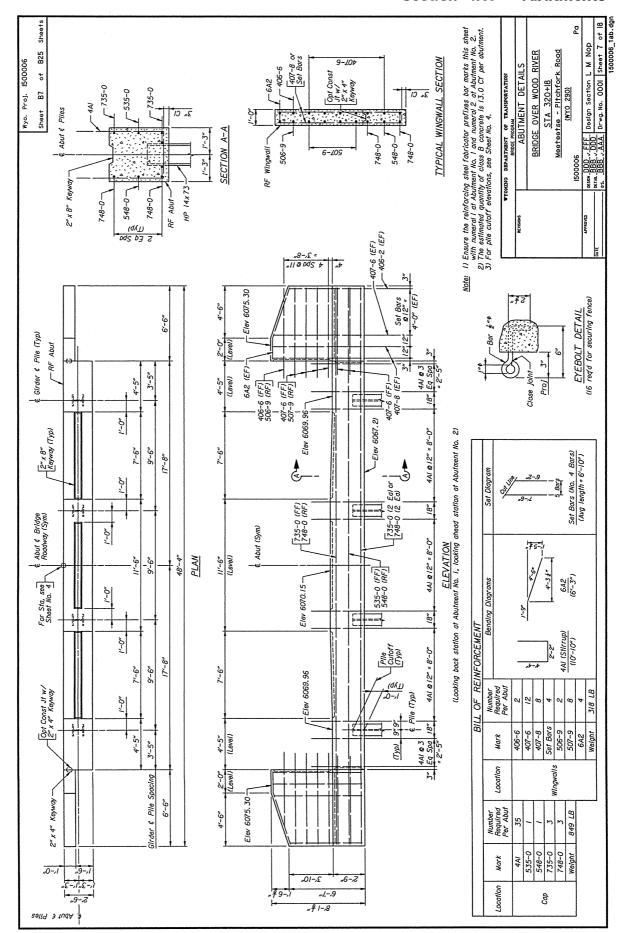


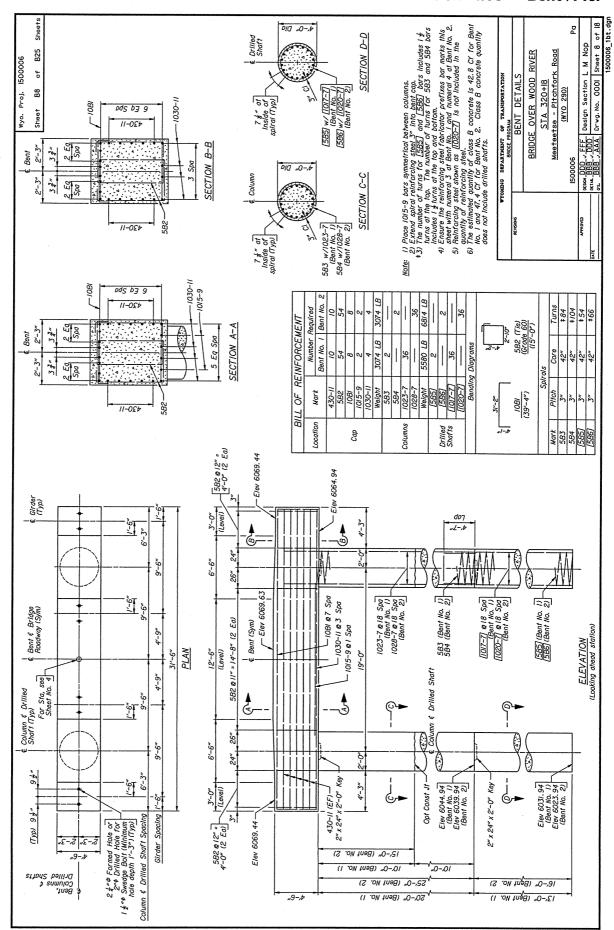
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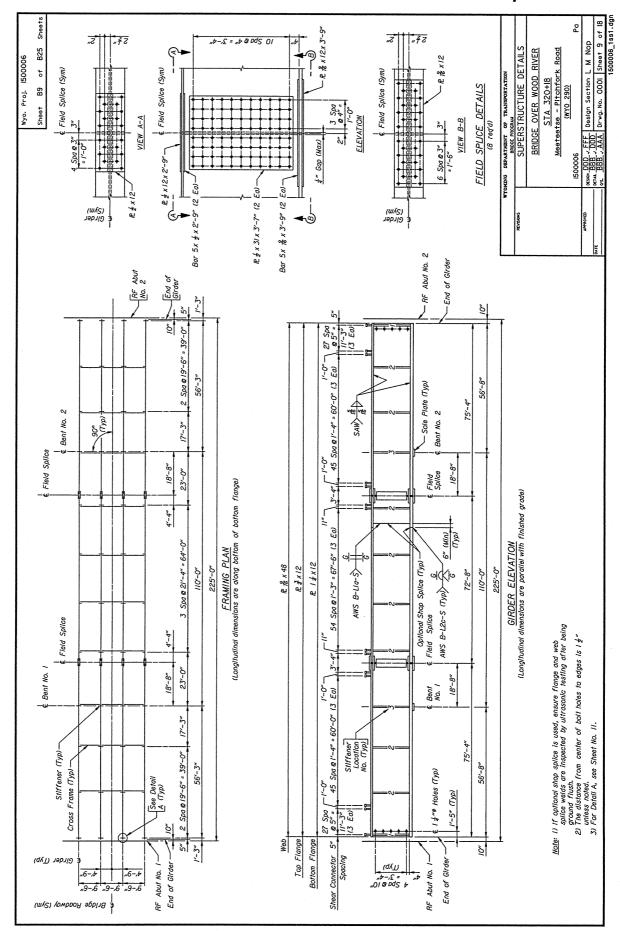


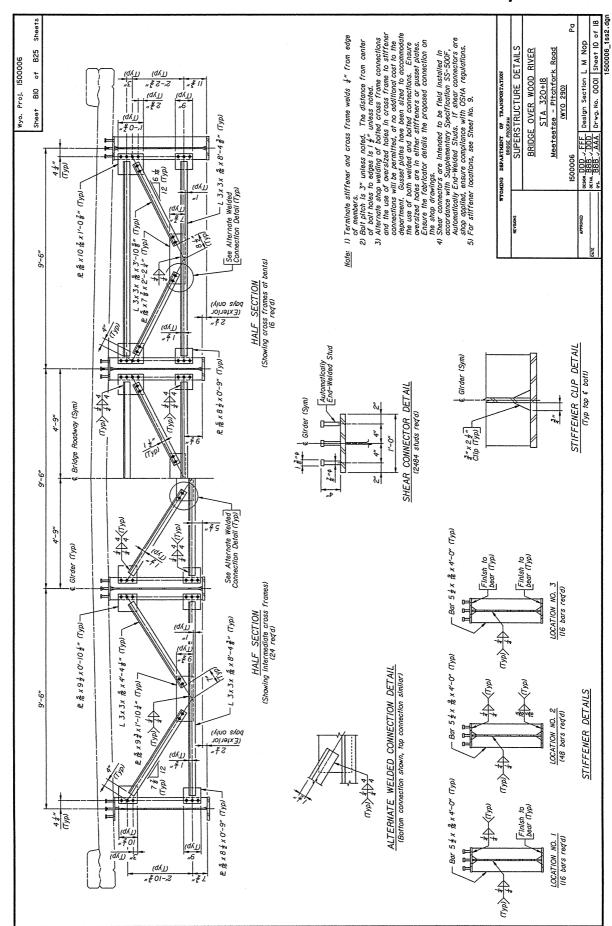


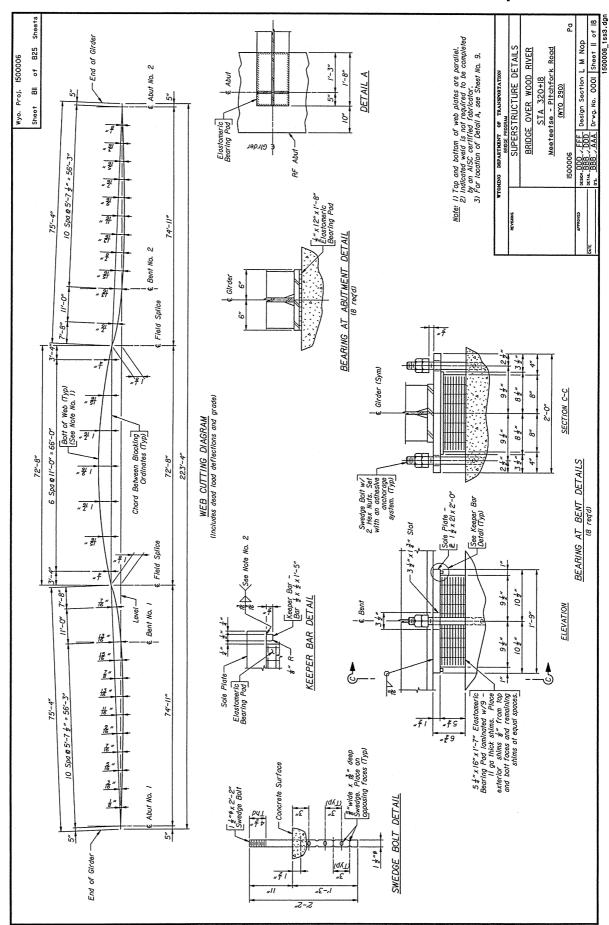


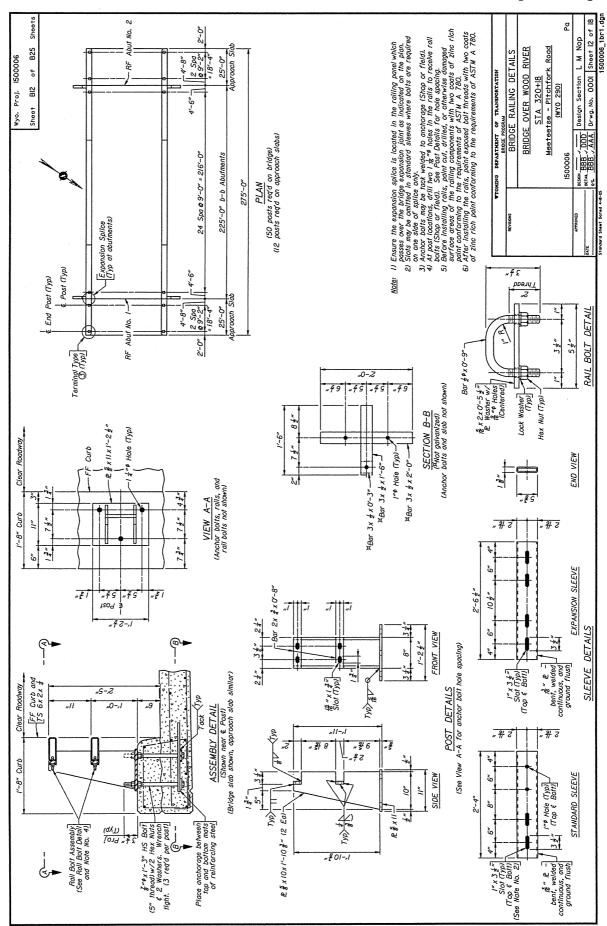


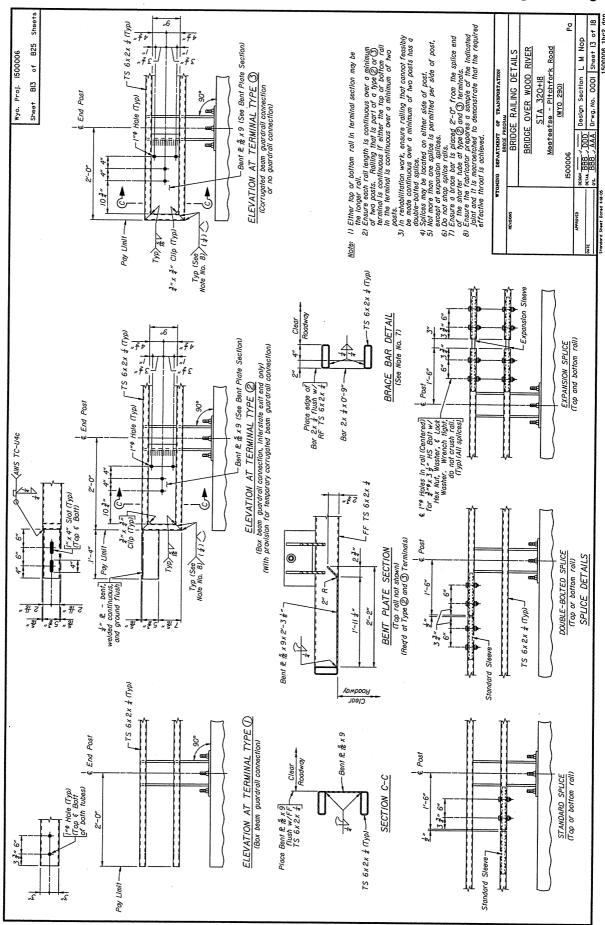


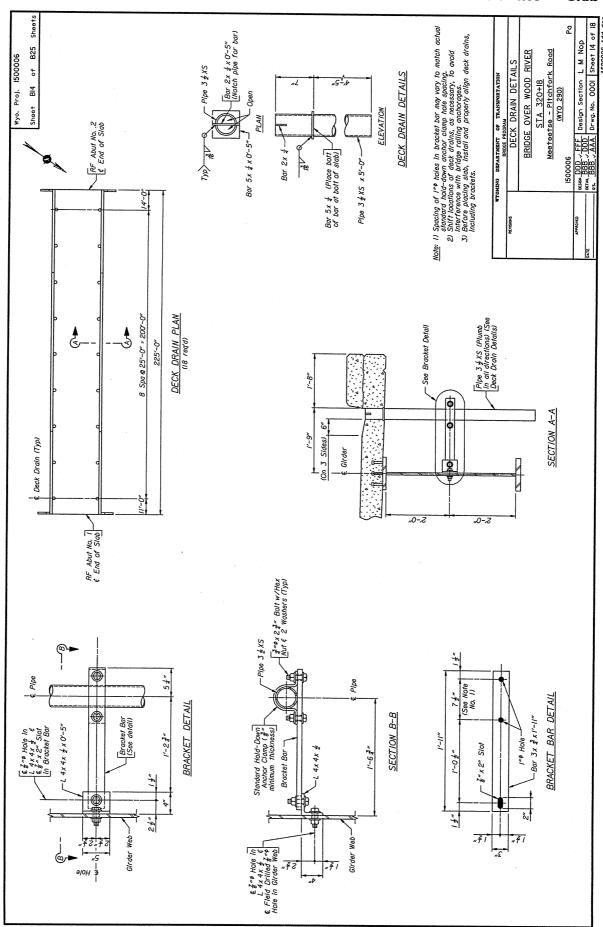


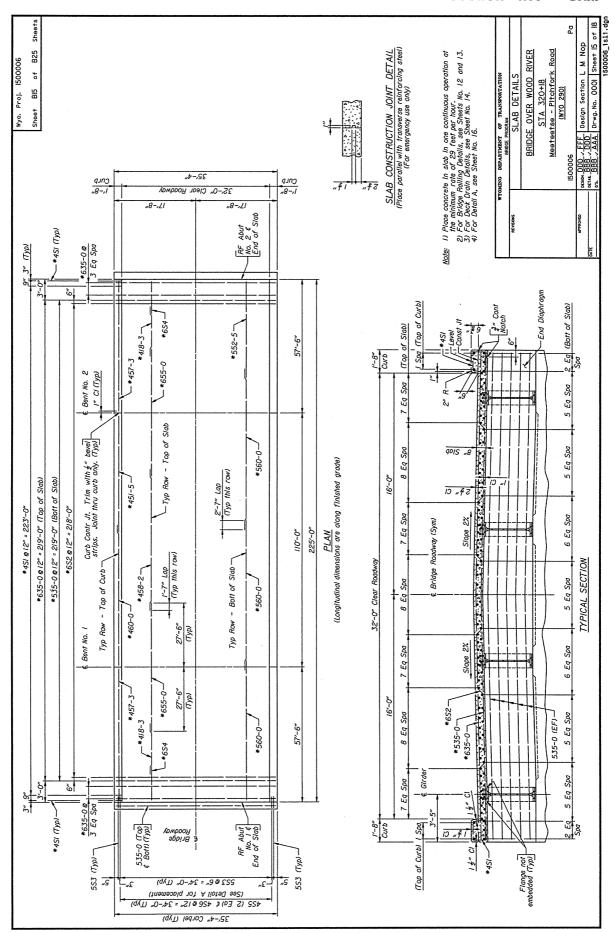


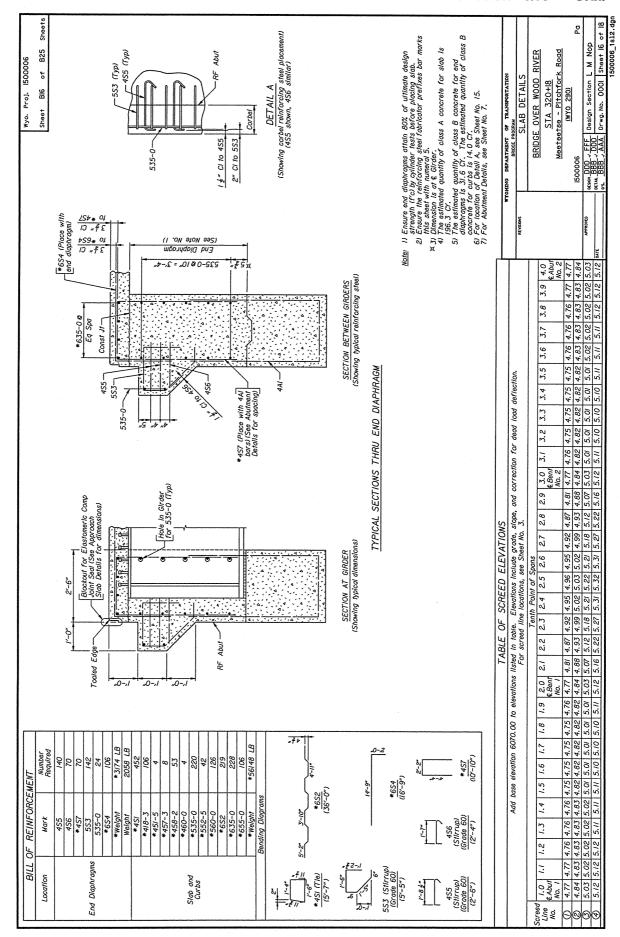


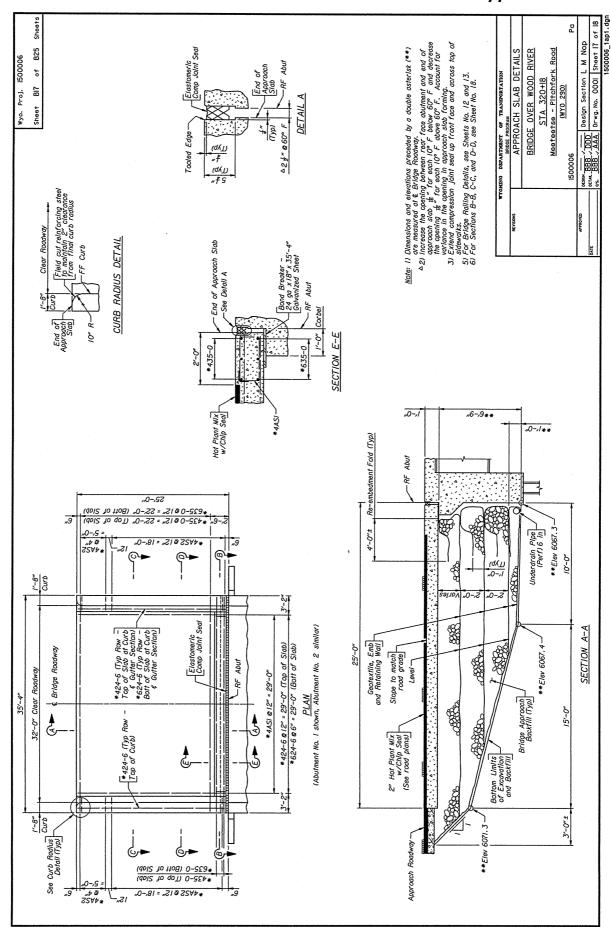


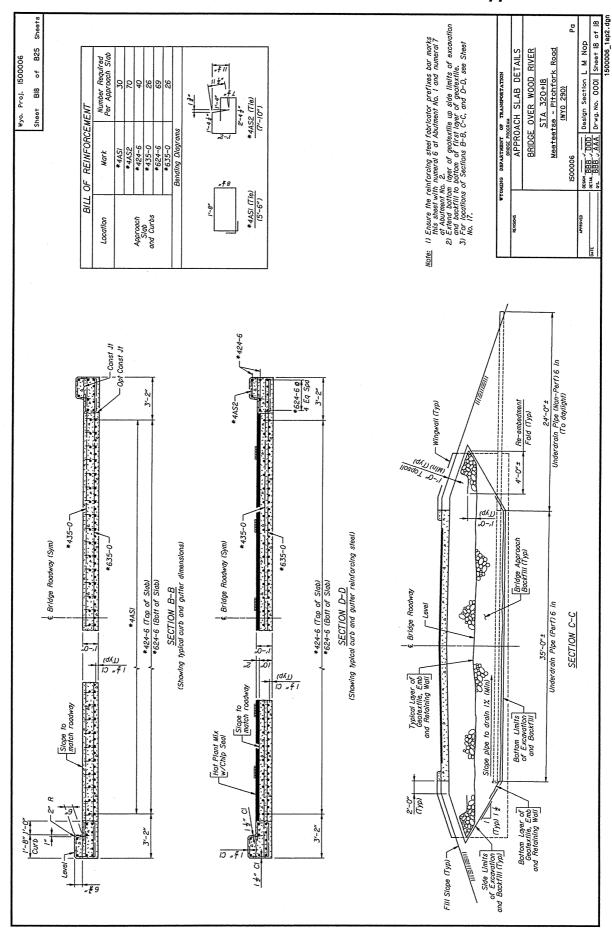












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