DESIGN NOTES

DESIGN SPECIFICATIONS

"AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" XX EDITION AND (MONTH)(YEAR) ITD BRIDGE DESIGN LRFD MANUAL, AND AASHTO/AWS "BRIDGE WELDING CODE" D1.5.

DESIGN PROCEDURES

DECK DESIGNED USING EMPIRICAL METHOD. RAILING IN ACCORDANCE WITH MASH TL-x.

DESIGN SPEED IS mph.

ABUTMENT/PIER DESIGNED TO RESIST THE VEHICULAR COLLISION FORCE.

PROPRIETARY COMPUTER SOFTWARE PROGRAMS USED TO FACILITATE THE DESIGN:

NAME	VERSION	RELEASE DATE	NAME	VERSION	RELEASE DATE

DESIGN LOADS

PERMANENT LOADS

DC	UNIT WEIGHT OF REINFORCED CONCRETE	0,150 kcf		
	UNIT WEIGHT OF STRUCTURAL STEEL	0.490 kcf		
	METAL DECK FORMS			
DW	INITIAL WEARING SURFACE			
	FUTURE WEARING SURFACE	0.028 ksf		
	UTILITIES	xxx klf/GIRDER		
	FUTURE UTILITIES	xxx klf/GIRDER		
EV	UNIT WEIGHT OF SOIL	xxx kcf		
EH	ACTIVE PRESSURE	xxx kcf		
	AT REST PRESSURE	xxx kcf		
TRANSIENT LOADS				
LL	HL-93 INCLUDING PAIR OF DESIGN TANDEMS IN ACCORD	DANCE WITH		
	"AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" ARTICLE 3.6.1.3			
IM	DYNAMIC ALLOWANCE APPLIED TO TRUCK & TANDEM			

	"AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS" ARTICLE	3.6.1.3
IM	DYNAMIC ALLOWANCE APPLIED TO TRUCK & TANDEM	
LS	LIVE LOAD SURCHARGE AT ABUTMENT	xxx feet
	LIVE LOAD SURCHARGE AT WINGWALL	xxx feet
TU	UNIFORM TEMPERATURE RANGE	30° F TO 120° F
	BASE SETTING TEMPERATURE	60° F
EXTREME	EVENT LOADS	
EQ	SITE CLASS.	X
	ACCELERATION COEFFICIENT S _{D1}	0.xx g
	SEISMIC PERFORMANCE ZONE	X
CT	VEHICULAR COLLISION FORCE	600 k
IC	ICE CRUSHING STRENGTH	xxx ksf
CT	ACCELERATION COEFFICIENT S _{D1} SEISMIC PERFORMANCE ZONE VEHICULAR COLLISION FORCE	0.xx 600

REVISIONS			REVISIONS	DESIGNED	SCALES SHOWN
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED	ARE FOR 11" X 17" PRINTS ONLY
K				DETAILED	CADD FILE NAME
Ķ					Standards/Bridge Standard Drawings/
À				DWG. CHECKED	B17_1B.DGN
À				CORRECTIONS	DRAWING DATE:
IΔ					OCT 2023



PROVED BY: KIDGE ENGINEER MICHAEL T. JOHNSON DATE: PROJECT NO.

DESIGN AND GENERAL NOTES - SHEET 1

BRIDGE PLANS

WEATHERING STEEL GIRDER BRIDGE BRIDGE LRFD DESIGN MANUAL, B17.1B BRIDGE KEY NO.

COUNTY KEY NO.

BRIDGE DWG. NO. SHEET

GENERAL NOTES

MATERIALS, CONSTRUCTION AND WORKMANSHIP IN ACCORDANCE WITH THE STATE OF IDAHO TRANSPORTATION DEPARTMENT, "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION", 2023 EDITION, THE PROJECT PLANS, AND SPECIAL PROVISIONS.

MATERIALS

TI EI TII TES				
CONCRETE:	DECK SLAB AND PARAPET - CLASS 40AF	f'c=	4.00	ksi
	ABUTMENTS AND WINGWALLS - CLASS 40A	f'c=	4.00	ksi
METAL REINFOR	RCEMENT: AASHTO M31, GRADE 60 TYPE S	fy=	60.00	ksi
STRUCTURAL ST	TEEL: ASTM A709 GRADE 50W	fy=	50.00	ksi
	BASE METAL & WELD METAL CHARPY V-NOTCH TEMPERATURE ZONE:	3.		

HIGH STRENGTH BOLTS: ASTM F3125 GRADE A325 TYPE 3

CARBON STEEL BOLTS: ASTM A307

PLAN DIMENSIONS AND ELEVATIONS

BEVEL EXPOSED EDGES OF CONCRETE 34 " UNLESS NOTED OTHERWISE. DIMENSIONS TO REINFORCING STEEL ARE TO CENTERLINE OF BAR UNLESS NOTED OTHERWISE. PROVIDE 2" CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING BAR, UNLESS SHOWN OTHERWISE ON THE DRAWINGS. PROVIDE REINFORCING STEEL SPLICE LENGTHS IN ACCORDANCE WITH AASHTO SPECIFICATIONS.

CONSTRUCTION

EPOXY-COATED REINFORCEMENT IS DESIGNATED BY AN (E) AFTER THE BAR MARK.

GLASS FIBER REINFORCED POLYMER REINFORCEMENT IS DESIGNATED BY A (G) AFTER THE BAR MARK.

PROVIDE CONSTRUCTION JOINTS ONLY AT THE LOCATIONS SHOWN ON THE PLANS OR AS APPROVED.

PERMANENT METAL DECK SLAB FORMS MAY BE USED AT CONTRACTOR'S OPTION.

PROTECT SURFACES OF THE SUBSTRUCTURE EXCEPT WINGWALLS EXPOSED ON THE COMPLETED

STRUCTURE TO PREVENT STAINING WITH PLASTIC SHEETS OR OTHER APPROVED METHODS UNTIL DECK

PLACEMENT IS COMPLETED AND GIRDERS ARE BLAST CLEANED.

PROVIDE WELDS IN ACCORDANCE WITH AASHTO/AWS D1.5 AND INTERIM REVISIONS.

ELEVATIONS ARE BASED ON NAVD 88 DATUM.

INCIDENTAL ITEMS

WORK NECESSARY TO FULFILL THE CONTRACT THAT IS NOT MEASURED OR PAID FOR SEPARATELY.