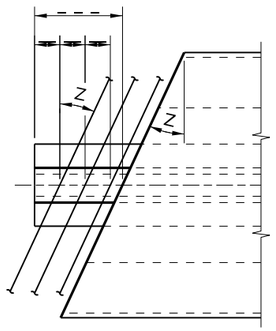
DEFLECTION DATA ~ INCHES							
LOCATION	ΔP PRESTRESS	ΔG GIRDER	Σ Δ * ΔP + ΔG	ΔC CURB	Δ1 ** 1.55 ΔP + 1.65(ΔG+ΔC)	ΔD	Δ2 ΔD + ΔWS

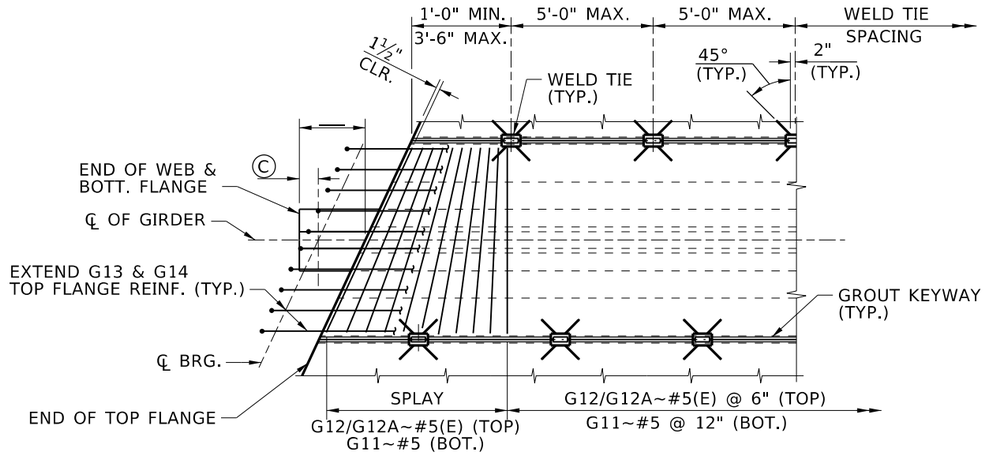
* ESTIMATED DEFLECTION OF PRESTRESSED GIRDER AT RELEASE

** ESTIMATED DEFLECTION OF PRESTRESSED GIRDER AT ERECTION. GIRDER ERECTION ASSUMED TO OCCUR WITHIN 60 TO 90 DAYS AFTER GIRDER FABRICATION



PLAN

3/16"=1'-0"

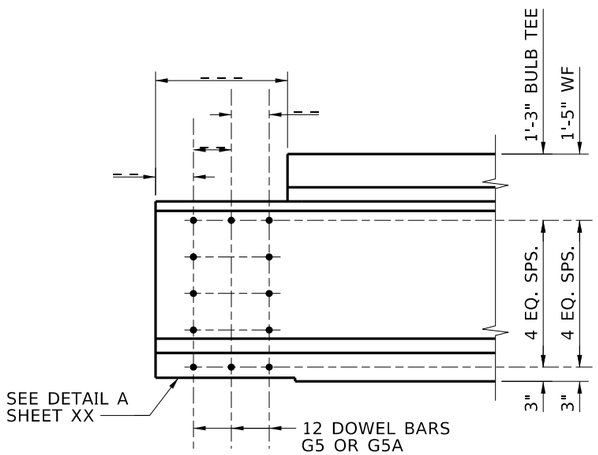


GIRDER PLAN

3/16"=1'-0"

NOTES:

1. OMIT WELD TIES ON EXTERIOR EDGE OF EXTERIOR GIRDER.
2. STRANDS NOT SHOWN.

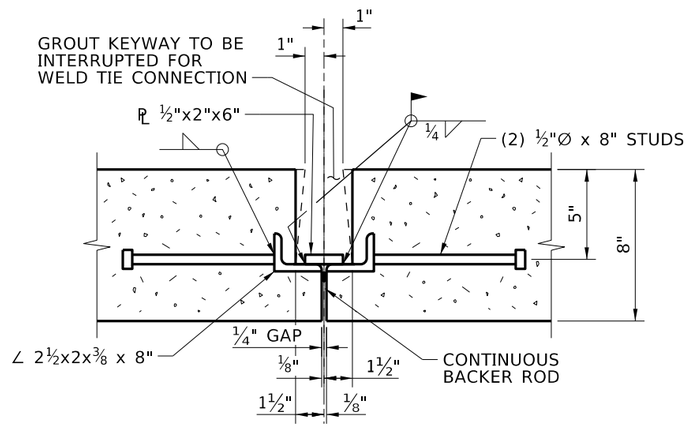


ELEVATION

TYPE B

GIRDER END DETAILS

3/8"=1'-0"



TYPICAL WELD TIE

1½"=1'-0"

NOTES

DOWELS

1. PROVIDE DOWELS BY ANY OF THE FOLLOWING METHODS:
   a. PROVIDE COIL ROD INSERTS AND THREADED DOWELS, IF THE ULTIMATE STRENGTH OF THE INSERT IS IN ACCORDANCE WITH THE FOLLOWING:

BAR SIZE	MINIMUM ULTIMATE TENSION CAPACITY (LBS.)
#4	12,000
#5	18,600
#6	26,400

   b. 1½"Ø HOLES MAY BE PROVIDED DURING FABRICATION AND DOWELS GROUTED IN PLACE AFTER DELIVERY TO THE JOB SITE.
2. PLACE DOWELS PARALLEL TO ℄ BEARING.

SHOP DRAWINGS

3. PROVIDE SHOP DRAWING DETAILS THAT CONFORM TO CURRENT AASHTO SPECIFICATIONS. SHOW DETENSIONING SEQUENCE AND LIFT POINTS ON THE SHOP DRAWINGS.
4. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH 506.03 AND 105.02.
5. LATERALLY RESTRAIN THE GIRDER IN AN UPRIGHT POSITION DURING TRANSPORTATION AND ERECTION. SHOW THE METHOD OF LATERAL RESTRAINT ON THE SHOP DRAWINGS.

MISCELLANEOUS GIRDER DETAILS

6. PROVIDE GIRDERS WITH ENDS THAT ARE PLUMB WHEN SET TO GRADE.
7. DIMENSION Ⓐ IN THE PRESTRESSED GIRDERS SCHEDULE TABLE IS A HORIZONTAL DIMENSION. CORRECT THE FINISHED GIRDER LENGTH FOR GRADE AND PROVIDE AN ALLOWANCE FOR BEAM SHORTENING.
8. BLOCK OUT TOP FLANGE OF BULB TEE AND WF GIRDERS TO ALLOW PLACEMENT OF CONCRETE FOR THE END DIAPHRAGMS.
9. IF THE TOP FLANGE OVERHANG IS USED FOR SUPPORT OF CURB FORMS, APPROVAL OF THE METHOD TO BE USED IS REQUIRED BEFORE CASTING OF THE GIRDERS. SHOW THE METHOD OF CURB FORM SUPPORT ON SHOP DRAWINGS.
10. FABRICATE IN ACCORDANCE WITH 506.

CONCRETE

11. PROVIDE CONCRETE THAT CONFORMS TO 502 EXCEPT THAT ENTRAINED AIR WILL BE 5% ± 1%.

STRAND

12. DESIGN BASED UPON 0.6" DIA. AASHTO M203 LOW RELAXATION STRAND.

DEFLECTION DATA

13. Δ1 INCLUDES THE CURB IF THE CURB IS CAST BEFORE GIRDER ERECTION.
14. ΔD INCLUDES OTHER NON-COMPOSITE LOADS; INTER. DIAPH., METAL RAILING, & PLANT-MIX PAVEMENT.

GIRDER SHIPPING

15. DO NOT SHIP PRESTRESSED CONCRETE MEMBERS UNTIL TESTS ON CONCRETE CYLINDERS MANUFACTURED FROM THE SAME CONCRETE AND CURED UNDER THE SAME CONDITIONS AS THE GIRDERS INDICATE THAT THE CONCRETE OF THE PARTICULAR MEMBER HAS ATTAINED A COMPRESSIVE STRENGTH EQUAL TO THE SPECIFIED DESIGN 28 DAY COMPRESSIVE STRENGTH.

BASIS OF PAYMENT

16. PRESTRESSING CONCRETE MEMBERS IS INCIDENTAL TO THE PRECAST AND PRESTRESSED PAY ITEMS IN 502.

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	ENGLISH	PRESTRESSED DECK GIRDER DETAILS	BRIDGE PLANS
NO.	DATE	BY	DESCRIPTION	DESIGN CHECKED	CADD FILE NAME	YOUR Safety→YOUR Mobility→YOUR Economic Opportunity	PROJECT NO.		BRIDGE KEY NO.
				DETAILED	Standards/Bridge Standard Drawings/ B05_4C.DGN			OFF SYSTEM AND LOCAL ROADS BRIDGE LRFD DESIGN MANUAL, B5.4C	COUNTY / KEY NO.
				DWG. CHECKED					BRIDGE DWG. NO. / SHEET OF
				CORRECTIONS	DRAWING DATE: OCT 2023	APPROVED BY: BRIDGE ENGINEER MICHAEL T. JOHNSON DATE:			