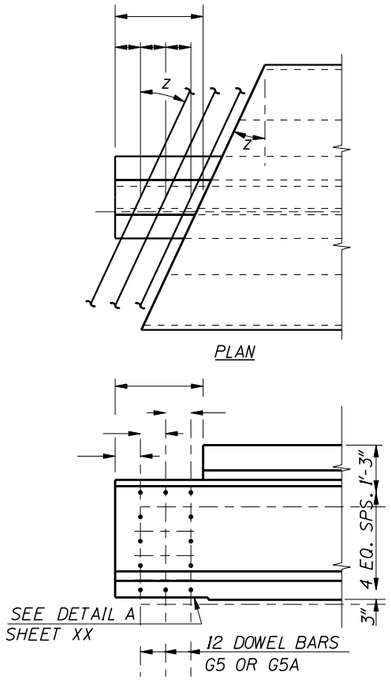
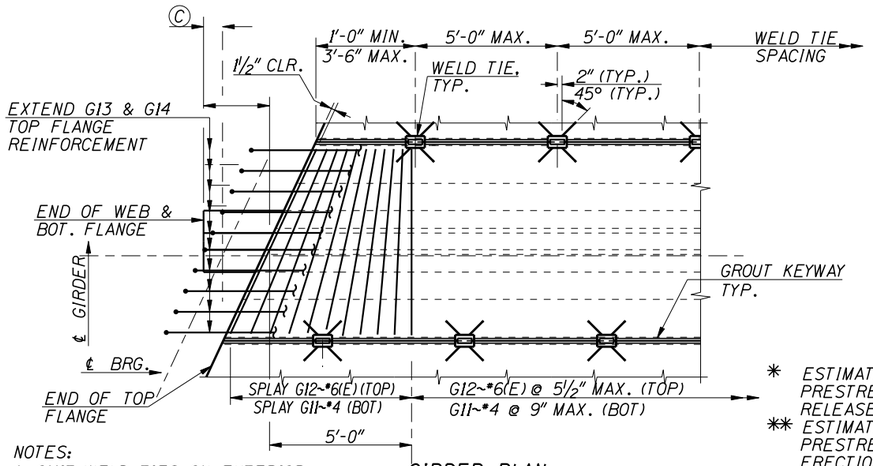


TYPE B

END DIAPHRAGM DOWEL DETAILS

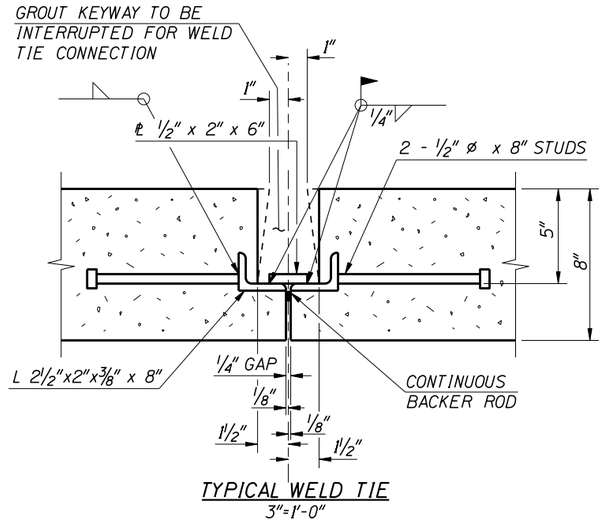
1/2"=1'-0"



GIRDER PLAN

3/8"=1'-0"

NOTES:
1. OMIT WELD TIES ON EXTERIOR EDGE OF EXTERIOR GIRDERS.
2. STRANDS NOT SHOWN.



TYPICAL WELD TIE

3"=1'-0"

* 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

NOTES

LOSSES

1. GIRDERS DESIGNED USING IMMEDIATE PRESTRESS LOSSES OF psi AND FINAL TOTAL PRESTRESS LOSSES OF psi.

DOWELS

2. DOWELS MAY BE PROVIDED BY ANY OF THE FOLLOWING METHODS:
   a. CAST IN PLACE AS SHOWN.
   b. COIL ROD INSERTS AND THREADED DOWELS MAY BE PROVIDED, 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

   c. 1 1/2" ø HOLES MAY BE PROVIDED DURING FABRICATION AND DOWELS GROUTED IN PLACE AFTER DELIVERY TO THE JOB SITE.
3. DOWELS SHALL BE PLACED PARALLEL TO ℄ BEARING.

SHOP DRAWINGS

4. SHOP DRAWING DETAILS SHALL CONFORM TO CURRENT AASHTO SPECIFICATIONS. DETENSIONING SEQUENCE AND GIRDER LIFT POINTS SHALL BE SHOWN ON SHOP DRAWINGS.
5. DURING TRANSPORTATION AND ERECTION, THE GIRDER SHALL BE LATERALLY RESTRAINED UNTIL TEMPORARY BRACING IS ERECTED. THE METHOD OF LATERAL RESTRAINT SHALL BE SHOWN ON THE SHOP DRAWINGS.

MISCELLANEOUS GIRDER DETAILS

6. END OF GIRDERS SHALL BE PLUMB WHEN GIRDERS ARE SET TO GRADE.
7. DIMENSION Ⓐ IN TABLE IS A HORIZONTAL DIMENSION. FINISHED LENGTH OF GIRDER SHALL BE CORRECTED FOR GRADE AND ALLOWANCE MADE FOR BEAM SHORTENING.
8. TOP FLANGE OF BULB TEE GIRDERS SHALL BE BLOCKED OUT TO ALLOW PLACEMENT OF CONCRETE FOR THE END DIAPHRAGMS.
9. IF THE TOP FLANGE OVERHANG IS TO BE USED FOR SUPPORT OF CURB FORMS, APPROVAL BY THE ENGINEER OF THE METHOD TO BE USED WILL BE REQUIRED PRIOR TO CASTING OF THE BEAMS. THE METHOD OF CURB FORM SUPPORT SHALL BE SHOWN ON SHOP DRAWINGS.

CONCRETE

10. CONCRETE SHALL CONFORM TO SECTION 502 EXCEPT THAT ENTRAINED AIR SHALL BE 5%± 1%.

DEFLECTION DATA ~ INCHES

LOCATION	ΔP PRESTRESS	ΔG GIRDER	Σ Δ* ΔP + ΔG	ΔC CURB	Δ1** 1.55 ΔP+1.65(ΔG+ ΔC)	ΔF CROSS-FRAME	ΔR METAL RAIL	ΔWS WEARING SURFACE	Δ2 ΔF+ ΔR+ΔWS

REVISIONS			
NO.	DATE	BY	DESCRIPTION
△			
△			
△			
△			
△			

DESIGNED
DESIGN CHECKED
DETAILED
DWG. CHECKED
CORRECTIONS

SCALES SHOWN ARE FOR 34" X 22" PRINTS ONLY

CADD FILE NO. \prj00000\bridge\ b05_4c.dgn

DRAWING DATE: JUNE 2006

ORIGINAL SIGNED BY:

DATE SIGNED: DATE

ORIGINAL STORED AT ITD BRIDGE SECTION

IDAHO TRANSPORTATION DEPARTMENT

English

PROJECT NO.

PRESTRESSED DECK BULB TEE GIRDER DETAILS

BRIDGE PLANS

BRIDGE LRFD MANUAL, PAGE B5.4C

COUNTY | KEY NO.

BRIDGE DRAWING NO. | SHEET OF