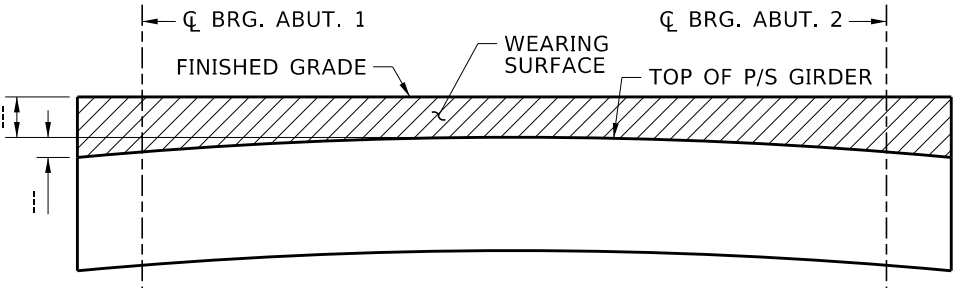


DEFLECTION DATA - INCHES						
LOCATION	ΔP PRESTRESS	ΔG GIRDER	$\Sigma \Delta$ * $\Delta P + \Delta G$	$\Delta 1^{**}$ $1.55 \Delta P + 165 \Delta G$	ΔS NON COMP. DL	$\Delta 2$ $\Delta S + \Delta C$
	↑	↓	↑	↑	↓	↓

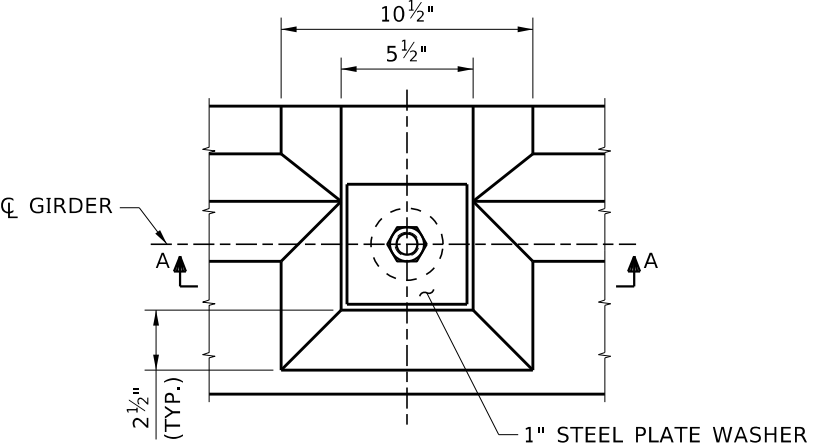
- CONSTRUCTION SEQUENCE**
1. SET SLABS.
 2. TENSION TIE RODS.
 3. GROUT 4"Ø VERTICAL DOWEL HOLE AT THE ABUTMENT.
 4. WELD 1¼" ROD AT WELD TIE LOCATIONS.
 5. GROUT KEYWAY.

- NOTES**
1. PROVIDE 7/8"Ø ASTM A449 HIGH STRENGTH TIE RODS.
 2. PROVIDE AN INITIAL MINIMUM TENSION OF 39,250 LBS. FOR THE RODS.
 3. MEASURE BOLT TENSION BY THE USE OF DIRECT TENSION INDICATORS. PROVIDE D.T.I. THAT CONFORM TO ASTM F959 AND HARDENED STEEL WASHERS THAT CONFORM TO ASTM F436.
 4. PROVIDE BEARING PLATES THAT CONFORM TO ASTM A36.
 5. PROVIDE NUTS THAT CONFORM TO ASTM A563 GRADE DH.
 6. HOT DIP GALVANIZE TIE RODS, NUTS, WASHERS AND BEARING PLATES AFTER FABRICATION. APPLY AN ANTIGALLING LUBRICANT TO THE THREADS BEFORE TENSIONING THE TIE RODS.

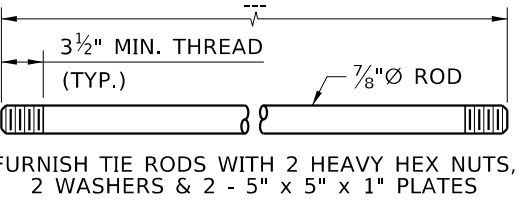
* ESTIMATED DEFLECTION OF PRESTRESSED GIRDER AT RELEASE
 ** ESTIMATED DEFLECTION OF PRESTRESSED GIRDER AT ERECTION



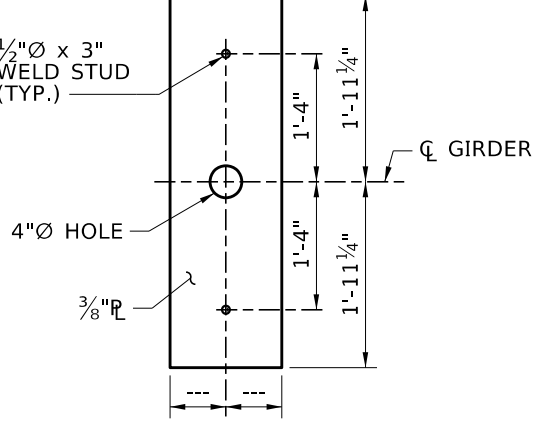
CAMBER DETAIL
3/8" = 1'-0"



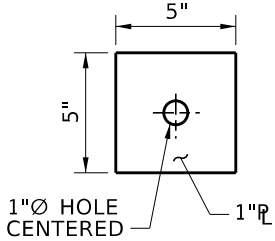
DETAIL A
(INTERIOR GIRDER BLOCKOUT DETAIL)
1 1/2" = 1'-0"
USE DETAIL A ONLY WHEN TIE ROD ENDS AT AN INTERIOR GIRDER



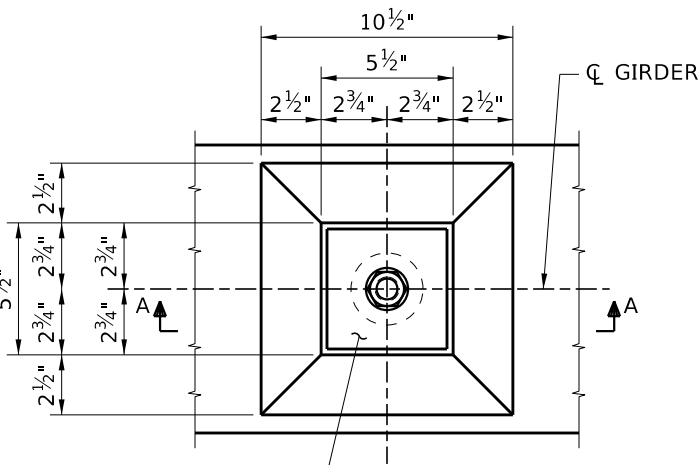
TIE ROD DETAIL
3/4" = 1'-0"



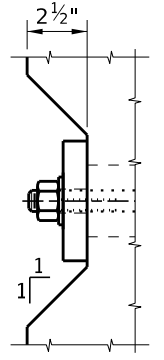
GIRDER BEARING PLATE
1/2" = 1'-0"



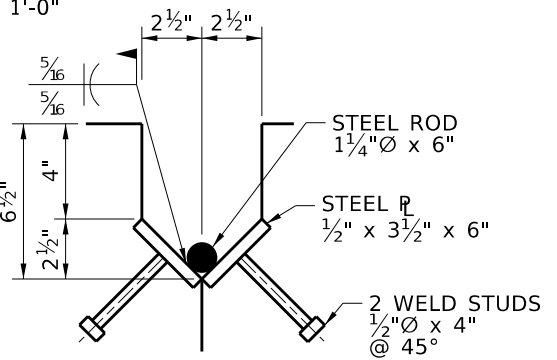
STEEL PLATE WASHER DETAIL
1 1/2" = 1'-0"



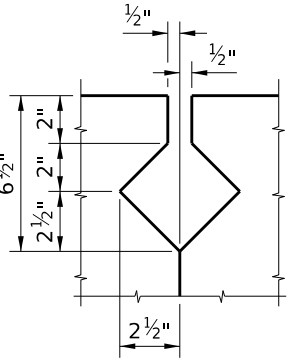
DETAIL B
(EXTERIOR GIRDER BLOCKOUT DETAIL)
1 1/2" = 1'-0"



SECTION A-A
1 1/2" = 1'-0"



WELD TIE DETAIL
1 1/2" = 1'-0"



KEYWAY DETAIL
1 1/2" = 1'-0"

- CONCRETE**
7. PROVIDE CONCRETE STRENGTH AS SHOWN ON THE PLANS.
 8. PROVIDE CONCRETE THAT CONFORM TO 502 EXCEPT THAT ENTRAINED AIR WILL BE 5% ±1%. SELF CONSOLIDATING CONCRETE MAY BE USED IN ACCORDANCE WITH 502.
- GROUT**
9. PROVIDE GROUT THAT CONFORM TO TYPE "B", CLASS I NON-METALLIC NON-SHRINK AS SPECIFIED IN 705.02.
 10. SANDBLAST, CLEAN, AND GROUT LEVEL WITH SURROUNDING GIRDER SURFACES, KEYWAYS AND BLOCKOUTS. PROVIDE A BACKER ROD AS A SEAL FOR THE GROUT.
 11. NO VEHICULAR TRAFFIC ALLOWED ON THE STRUCTURE UNTIL THE GROUT HAS ATTAINED A MINIMUM STRENGTH OF 4,000 PSI.

- SHOP DRAWINGS**
12. PROVIDE SHOP DRAWING DETAILS THAT CONFORM TO CURRENT AASHTO SPECIFICATIONS. SHOW DETENSIONING SEQUENCE AND GIRDER LIFT POINTS ON SHOP DRAWINGS.
 13. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH 506.03 AND 105.02.
 14. KEEP THE PRESTRESSED SLAB IN A FLAT POSITION (TOP SURFACE UPWARDS) DURING TRANSPORTATION AND ERECTION AND LIFT ONLY BY MEANS OF THE LIFTING DEVICES PROVIDED. SUBMIT THE PROVISION FOR SUPPORT POINTS TO BE USED DURING TRANSPORTATION TO THE JOB SITE FOR APPROVAL.

- MISCELLANEOUS GIRDER DETAILS**
15. DIMENSIONS ARE HORIZONTAL DIMENSIONS. CORRECT THE FINISHED SLAB LENGTH FOR GRADE AND PROVIDE AN ALLOWANCE FOR BEAM SHORTENING.
 16. FABRICATE IN ACCORDANCE WITH 506.
 17. FINISH THE TOP SURFACE OF THE SLAB IN ACCORDANCE WITH 502.03, PART I, PARAGRAPH 3d.
 18. SLAB ERECTION ASSUMED TO OCCUR 60-90 DAYS AFTER SLAB FABRICATION.

- STRAND**
19. DESIGN BASED UPON 0.6" DIA. AASHTO M203 LOW RELAXATION STRAND.
- GIRDER SHIPPING**
20. 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**
21. PRESTRESSING CONCRETE MEMBERS IS INCIDENTAL TO PRECAST AND PRESTRESSED PAY ITEMS IN 502.

REVISIONS			
NO.	DATE	BY	DESCRIPTION
▲			
▲			
▲			
▲			

DESIGNED
DESIGN CHECKED
DETAILED
DWG. CHECKED
CORRECTIONS

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY
 CADD FILE NAME
 Standards/Bridge Standard Drawings/B05_5G.DGN
 DRAWING DATE:
 OCT 2023

IDAHO TRANSPORTATION DEPARTMENT

YOUR Safety→YOUR Mobility→YOUR Economic Opportunity

APPROVED BY: BRIDGE ENGINEER **MICHAEL T. JOHNSON** DATE: _____

ENGLISH
 PROJECT NO.

TYPICAL PRESTRESSED SLAB DETAILS

OFF SYSTEM AND LOCAL ROADS
 BRIDGE LRFD DESIGN MANUAL, B5.5G

BRIDGE PLANS	
BRIDGE KEY NO.	
COUNTY	KEY NO.
BRIDGE DWG. NO.	SHEET OF