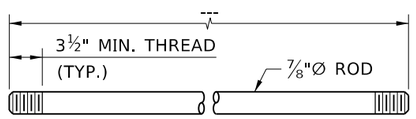
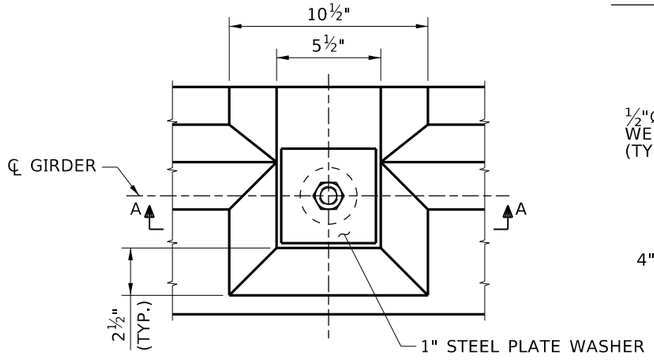
DEFLECTION DATA - INCHES						
LOCATION	ΔP PRESTRESS ↑	ΔG GIRDER ↓	ΣΔ * ΔP + ΔG ↑	Δ 1** 1.55 ΔP + 165 ΔG ↑	ΔS NON COMP. DL ↓	Δ2 ΔS + ΔC ↓

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

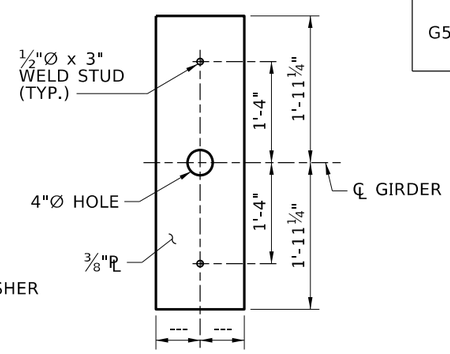


FURNISH TIE RODS WITH 2 HEAVY HEX NUTS, 2 WASHERS & 2 - 5" x 5" x 1" PLATES

TIE ROD DETAIL
¾" = 1'-0"



DETAIL 1
(INTERIOR GIRDER BLOCKOUT DETAIL)
1½" = 1'-0"
USE DETAIL 1 ONLY WHEN TIE ROD ENDS AT AN INTERIOR GIRDER



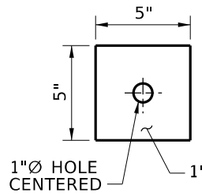
GIRDER BEARING PLATE
½" = 1'-0"

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.

REINFORCEMENT DIAGRAM
AASHTO M31 GRADE 60 TYPE S

MARK	SIZE	GRADE	SKETCH
G1A*	#4(E)	60	VAR. 3'-5" VAR.
G1B*	#4(E)	60	VAR. 3'-5" VAR.
G2	#4(E)	60	Ⓐ - 4"
G3*	#4(E)	60	VAR. 2'-3"
G4*	#4(E)	60	2'-3" 3'-4" 2'-3"
G5*	#4(E)	60	2'-3" 2½" RAD. 6"

BEND DETAILS IN ACCORDANCE WITH LATEST ACI STANDARD PRACTICE.
* STIRRUP AND TIE HOOK BEND DIMENSIONS. STIRRUPS AND TIES MUST HAVE A MINIMUM 1" COVER OUTSIDE OF BARS.



STEEL PLATE WASHER DETAIL
1½" = 1'-0"

NOTES
1. PROVIDE ⅞"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.

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.

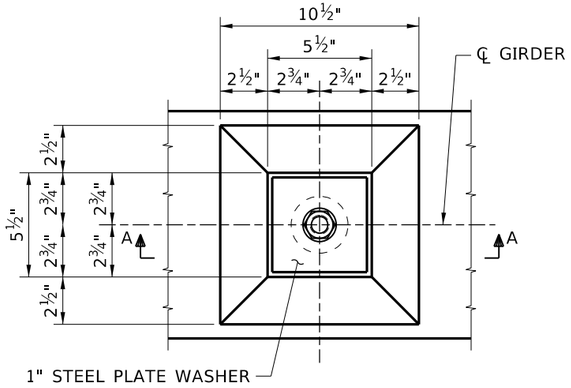
SHOP DRAWINGS
12. PROVIDE SHOP DRAWING DETAILS THAT CONFORM TO CURRENT AASHTO SPECIFICATIONS. SHOW DETENSIONING SEQUENCE AND GIRDER LIFT POINTS ON SHOP DRAWINGS.
13. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH 506.03 AND 105.02.
14. KEEP THE PRESTRESSED SLAB IN A FLAT POSITION (TOP SURFACE UPWARDS) DURING 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.

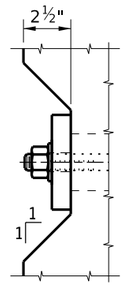
STRAND
19. DESIGN BASED UPON 0.6" DIA. AASHTO M203 LOW RELAXATION STRAND.

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.

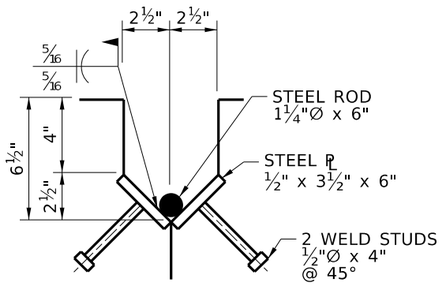
BASIS OF PAYMENT
21. PRESTRESSING CONCRETE MEMBERS IS INCIDENTAL TO PRECAST AND PRESTRESSED PAY ITEMS IN 502.



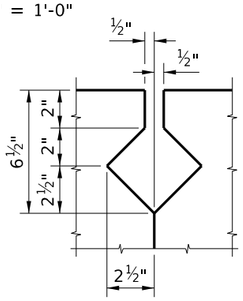
DETAIL 2
(EXTERIOR GIRDER BLOCKOUT DETAIL)
1½" = 1'-0"



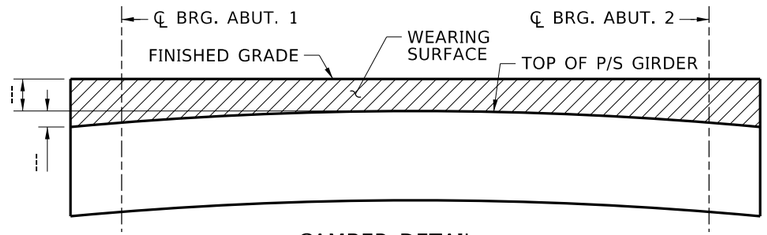
SECTION A-A
1½" = 1'-0"



WELD TIE DETAIL
1½" = 1'-0"



KEYWAY DETAIL
1½" = 1'-0"



CAMBER DETAIL
⅜" = 1'-0"

REVISIONS				DESIGNED	SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY	IDAHO TRANSPORTATION DEPARTMENT	ENGLISH	TYPICAL PRESTRESSED SLAB 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_5G.DGN			OFF SYSTEM AND LOCAL ROADS BRIDGE LRFD DESIGN MANUAL B5.5G	COUNTY / KEY NO.
				DWG. CHECKED	DRAWING DATE: DEC 2024	APPROVED BY: BRIDGE ENGINEER MICHAEL T. JOHNSON DATE:			BRIDGE DWG. NO. / SHEET OF
				CORRECTIONS					