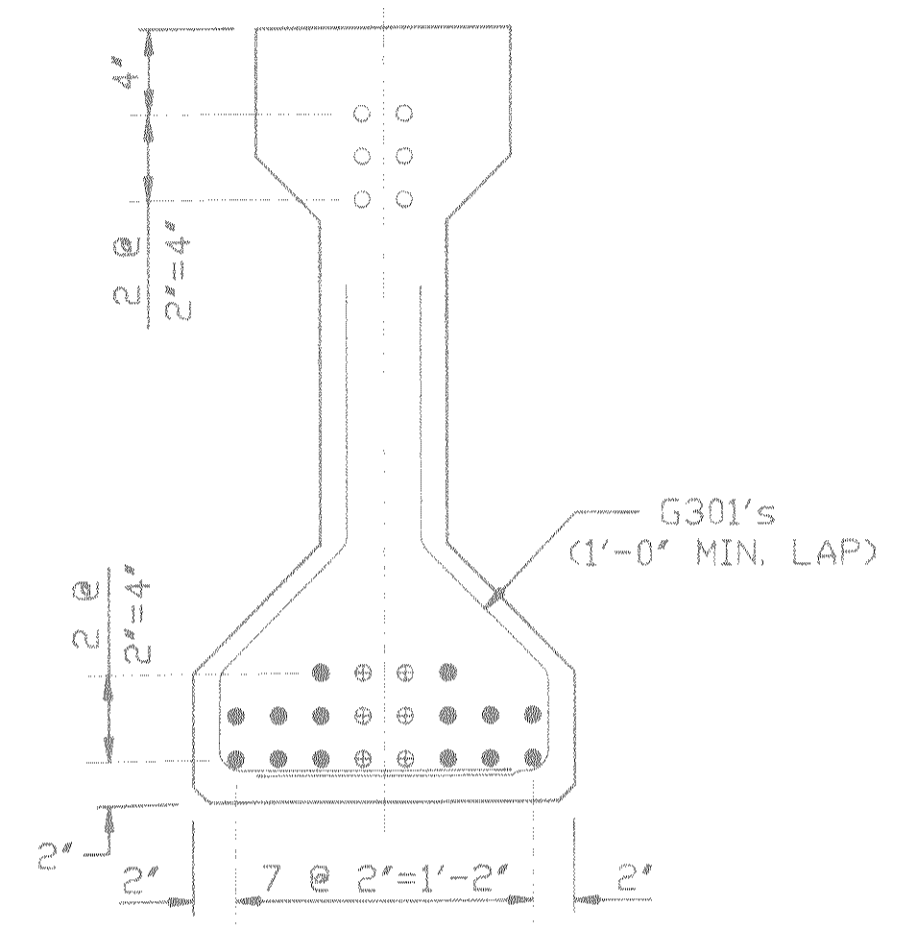


36 INCH GIRDER ELEVATION & SECTION

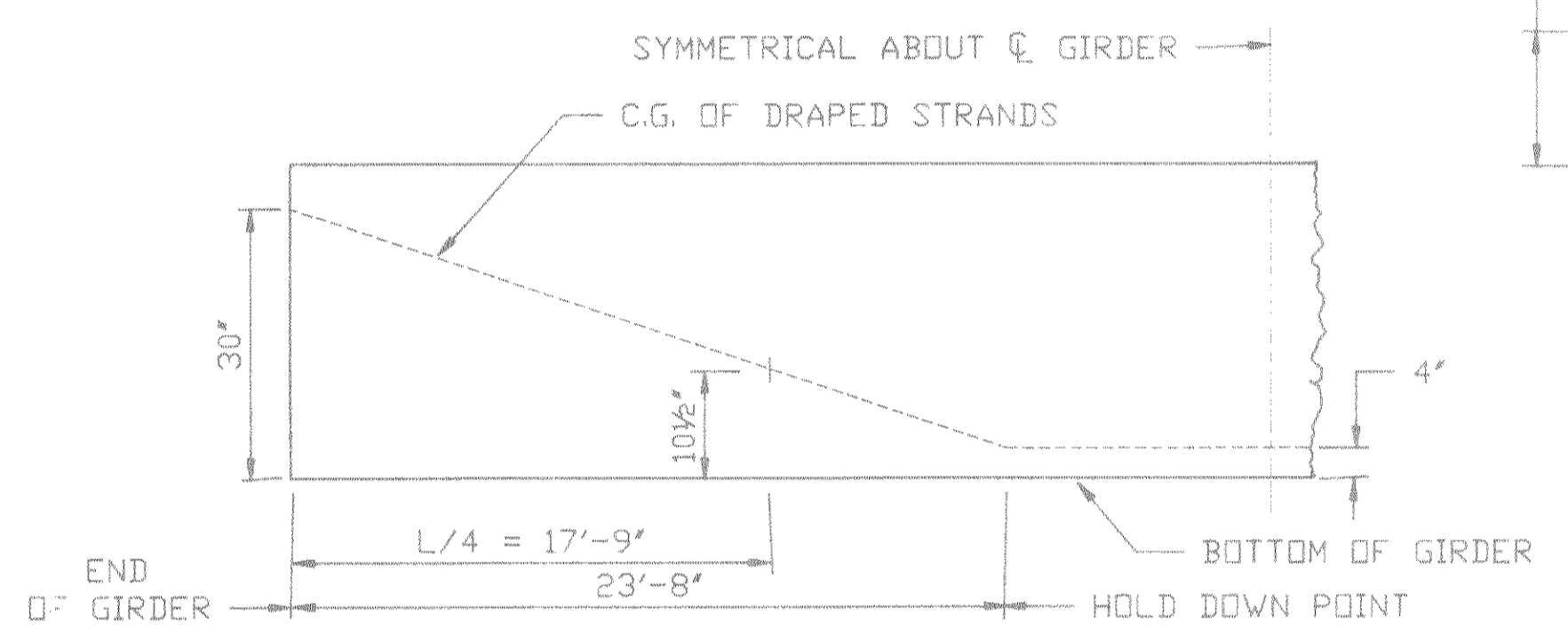
GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSLEY FOR BONDING TO THE SLAB, EXCEPT OUTSIDE 2' TO BE TROWEL FINISHED.
 THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTION.
 ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN. THE STIRRUP SPACING SHOWN IN 'ELEVATION' IS MAXIMUM, THE LOCATIONS USED SHALL BE SHOWN IN THE SHOP DRAWINGS.
 PRESTRESSING STRANDS SHALL BE 1/2" DIA, 7 WIRE, LOW RELAXATION STRAND WITH AN ULTIMATE TENSILE STRENGTH OF 270,000 PSI.
 EACH OF THE 20 PRESTRESSING STRANDS SHOWN SHALL BE JACKED TO AN EQUIVALENT STRESS OF 208,000 PSI FOR A TOTAL INITIAL PRESTRESS FORCE (P_{jack}) OF 637 KIPS.
 THE GIRDER CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (F_{ci}) OF 5000 PSI AT THE TIME OF PRESTRESS APPLICATION.
 DATA SHOWN IN THE 'DEFLECTION DATA' IS THEORETICAL AND MAY VARY WITH CONCRETE STRENGTH, VARIABLE PRESTRESS CONDITIONS AND PRESTRESS LOSSES...
 TO DETERMINE THE HAUNCH THICKNESS (t) SUBTRACT THE TOP OF GIRDER ELEVATION AND SLAB THICKNESS FROM AND ADD THE 'DEADLOAD DEFLECTION' TO THE DESIRED TOP OF SLAB ELEVATION.
 IF A 1 1/4" MINIMUM HAUNCH THICKNESS (t) CANNOT BE MAINTAINED, THE PROFILE GRADE MAY BE REVISED BY THE ENGINEER AT THE CONTRACTORS OPTION. THE PLAN SLAB THICKNESS SHALL BE HELD. THE MAXIMUM HAUNCH THICKNESS (t) SHALL BE 3'.

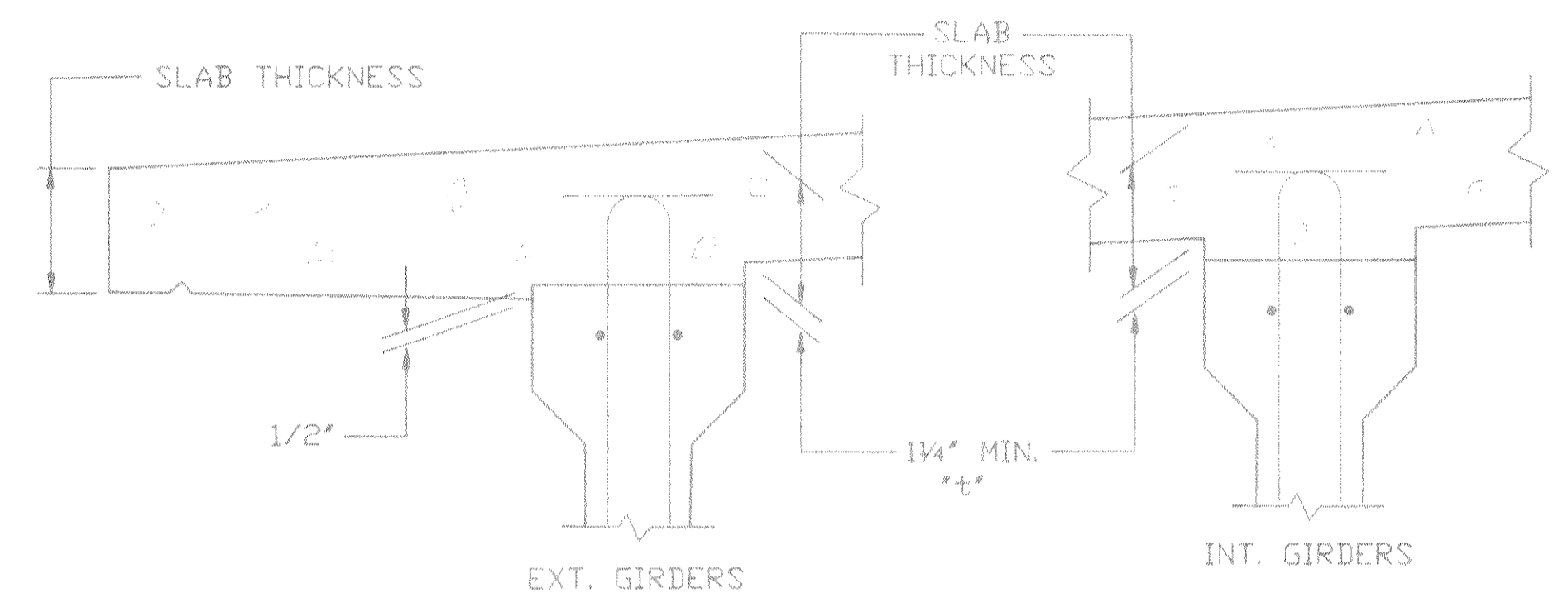


PRESTRESSING STRAND PATTERN

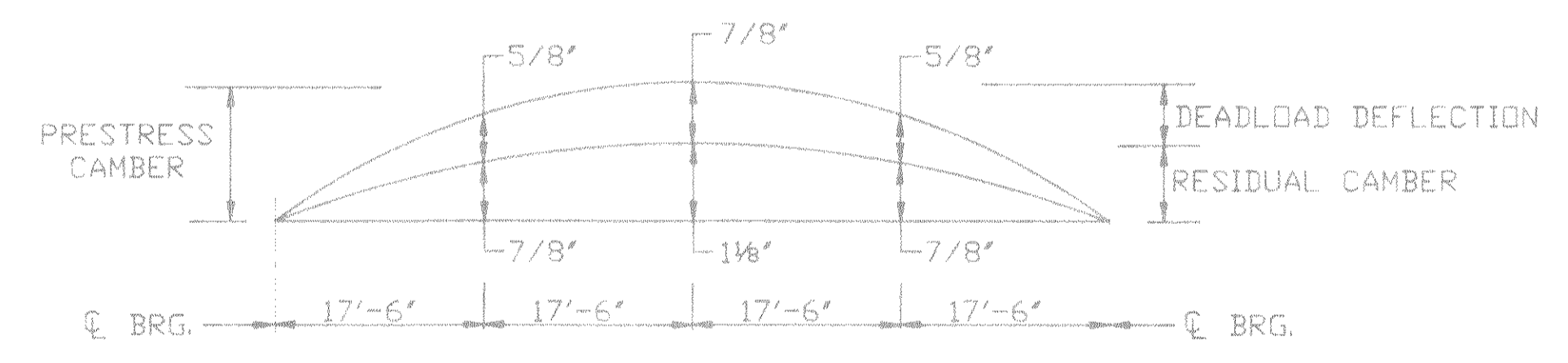
- STRAIGHT STRANDS
- DRAPED STRANDS (@ ENDS)
- ⊙ DRAPED STRANDS (NEAR MIDSPAN)



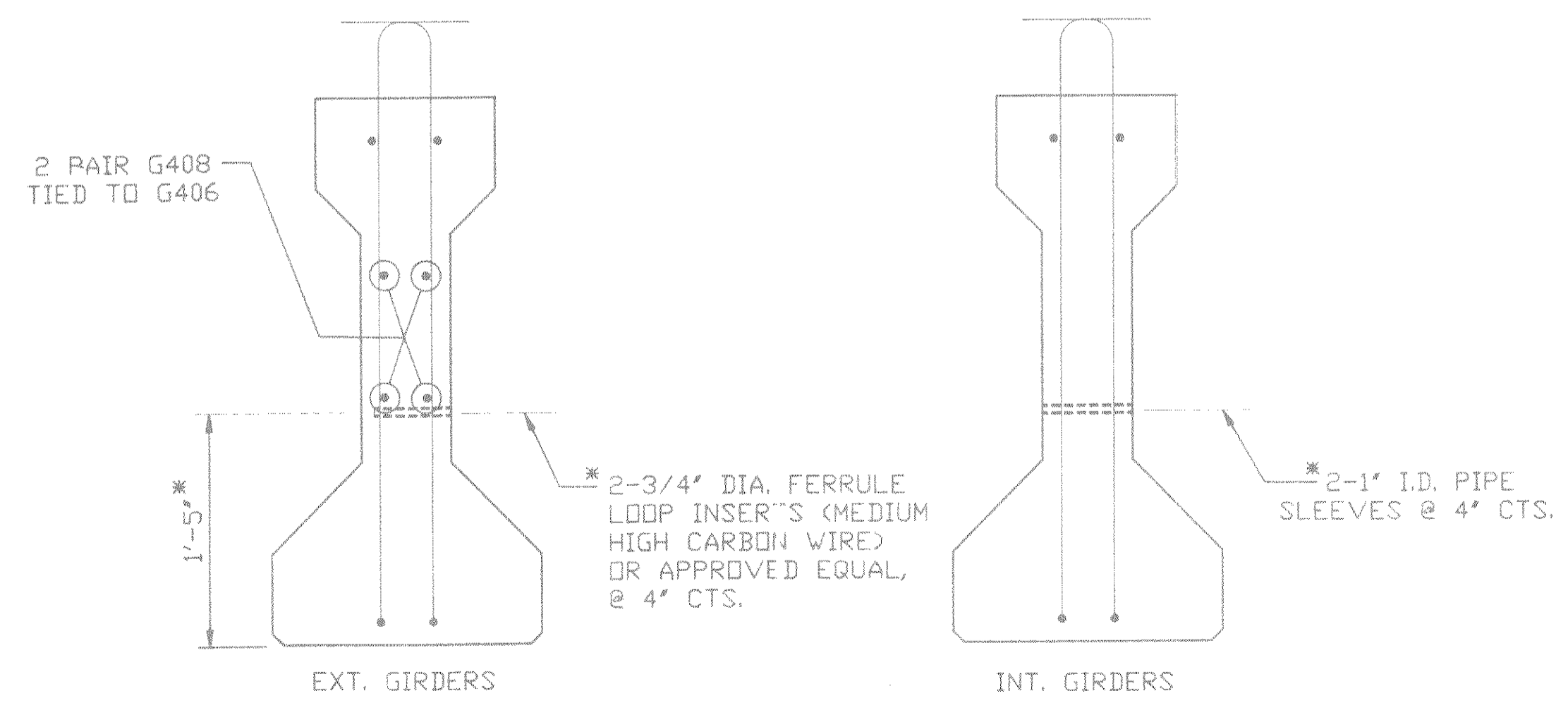
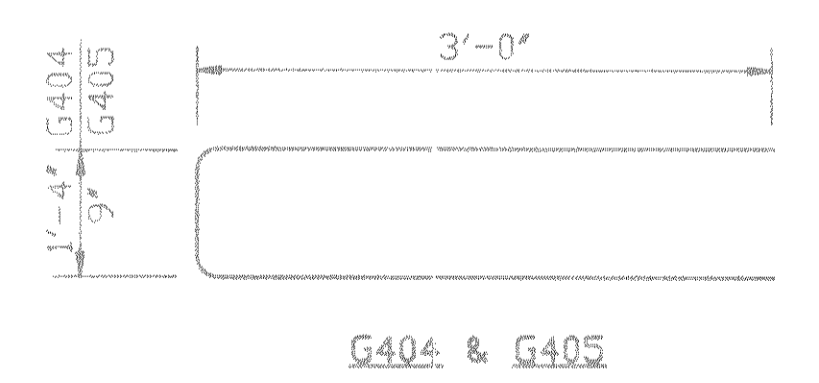
DRAPED STRAND PROFILE



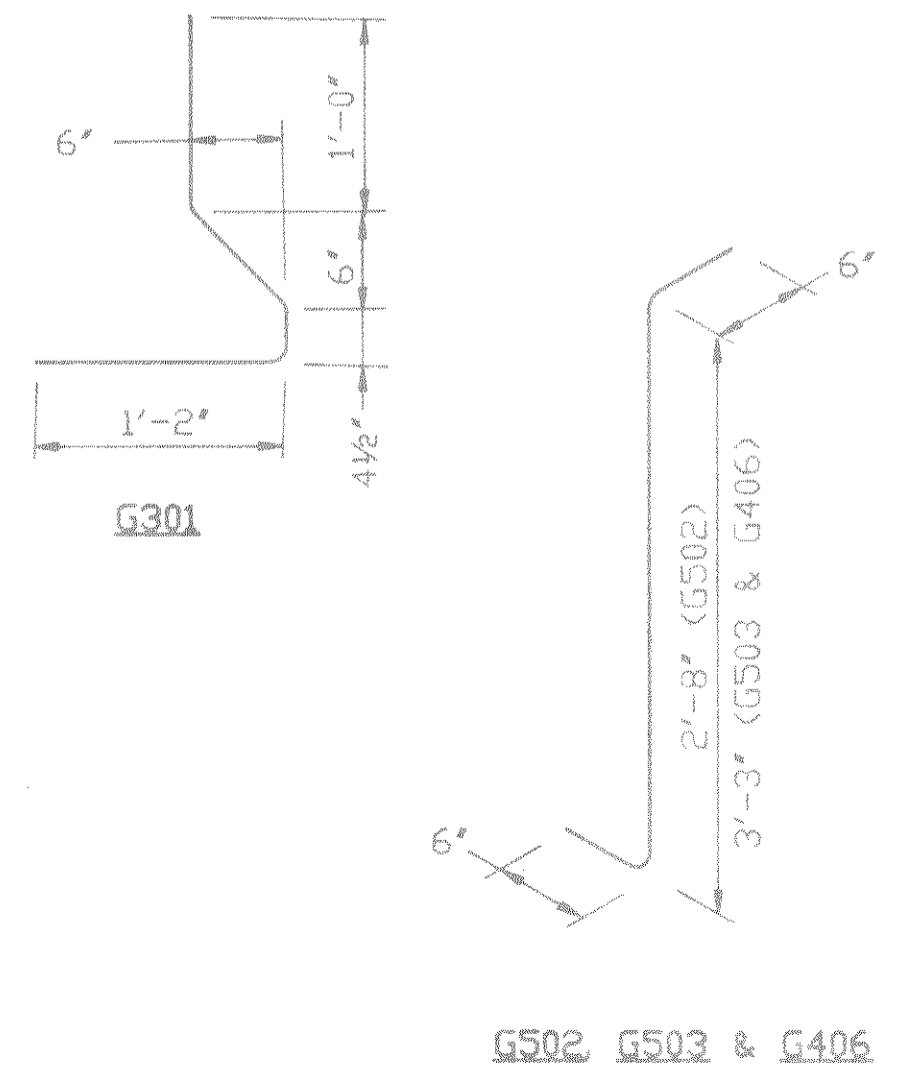
SLAB HAUNCH DETAIL



DEFLECTION DATA



DIAPHRAGM INSERT DETAILS
 * CONCRETE DIAPHRAGM ALTERNATE



G502, G503 & G406

BAR LIST

MARK	SHAPE	NO.	LENGTH	WEIGHT	LOCATION
G301	└	24	3'-2"	29 LBS.	END CONFINEMENT
G502	└	12	3'-7"	45	END STIRRUPS
G503	└	24	4'-2"	104	END STIRRUPS
G404	└	2	7'-3"	10	END CONFINEMENT, BOTTOM
G405	└	2	6'-8"	9	END CONFINEMENT, TOP
G406	└	72	4'-2"	200	CENTER STIRRUPS
G407	└	6	24'-6"	98	LONGITUDINAL, TOP
G408	└	4	2'-6"	7	DIAPHRAGM INSERTS ***

*** EXTERIOR GIRDERS ONLY.

No.	Date	Revision	By
BECHER-HOPPE Inc. ENGINEERS, ARCHITECTS, PLANNERS 330 Fourth Street Wausau, WI. 54402			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-35-104			
Const. Spec.:	WI. 1989	Drawn By:	DGK
Plans Checked:			
PRESTRESSED GIRDER DETAILS		SHEET 4 of 7 X82697	

S-GIRDER.DWG