WF GIRDER DETAILS 1 OF 5

WF GIRDER DETAIL SHEETS 2 TO 5 ARE INTENDED TO BE USED AS IS WITHOUT NEED FOR MODIFICATION FOR MOST PROJECTS. PROJECT SPECIFIC GIRDER DETAILS ARE THEN LIMITED TO THE GIRDER SCHEDULE. WF GIRDER DETAIL SHEET 5 MAY BE OMMITTED IF TEMPORARY TOP STRANDS ARE NOT USED.

ZONE 1 IS INTENDED TO BE THE SPLITTING RESISTANCE ZONE DEFINED BY BDM 5.6.2.F.

ZONE 2 IS INTENDED TO BE THE CONFINEMENT REINFORCEMENT ZONE DEFINED BY BDM 5.6.2.G.

G1 STIRRUP HEIGHT “H1” IS GENERALLY THE GIRDER HEIGHT + 3" + “A” DIMENSION. HOWEVER, DESIGNERS SHALL CHECK “H1” FOR THE EFFECT OF VERTICAL CURVE AND INCREASE AS NECESSARY.

DIMENSIONS IN THE GIRDER SCHEDULE SHALL BE SHOWN TO THE NEAREST 1/8" EXCEPT THE “A” DIMENSION WHICH SHALL BE SHOWN TO THE NEAREST 1/4".

THE NUMBER OF HARPED STRANDS SHOULD NOT EXCEED HALF THE NUMBER OF STRAIGHT STRANDS UNLESS THE STRAIGHT STRAND PATTERN IS FULL.

NOTES TO DESIGNER:
1. WF GIRDER DETAIL SHEETS 2 TO 5 ARE INTENDED TO BE USED AS IS WITHOUT NEED FOR MODIFICATION FOR MOST PROJECTS. PROJECT SPECIFIC GIRDER DETAILS ARE THEN LIMITED TO THE GIRDER SCHEDULE. WF GIRDER DETAIL SHEET 5 MAY BE OMITTED IF TEMPORARY TOP STRANDS ARE NOT USED.

2. ZONE 1 IS INTENDED TO BE THE SPLITTING RESISTANCE ZONE DEFINED BY BDM 5.6.2.F. ZONE 2 IS INTENDED TO BE THE CONFINEMENT REINFORCEMENT ZONE DEFINED BY BDM 5.6.2.G.

3. G1 STIRRUP HEIGHT “H1” IS GENERALLY THE GIRDER HEIGHT + 3" + “A” DIMENSION. HOWEVER, DESIGNERS SHALL CHECK “H1” FOR THE EFFECT OF VERTICAL CURVE AND INCREASE AS NECESSARY.

4. DIMENSIONS IN THE GIRDER SCHEDULE SHALL BE SHOWN TO THE NEAREST 1/8" EXCEPT THE “A” DIMENSION WHICH SHALL BE SHOWN TO THE NEAREST 1/4".

5. THE NUMBER OF HARPED STRANDS SHOULD NOT EXCEED HALF THE NUMBER OF STRAIGHT STRANDS UNLESS THE STRAIGHT STRAND PATTERN IS FULL.

PLACE DETAIL ON BRIDGE DECK REINFORCEMENT PLAN.

SCREED SETTING DIMENSIONS
FOR DIMENSION “C” SEE GIRDER SCHEDULE

GIRDER NOTES
1. PLAN LENGTH SHALL BE INCREASED AS NECESSARY TO COMPENSATE FOR SHORTENING DUE TO PRESTRESS AND SHRINKAGE.

2. ALL PRETENSIONED AND TEMPORARY STRANDS SHALL BE G.Y. AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKE TO 202.5 KSI (43.9 KIPS PER STRAND).

Bridge and Structures Office
Washington State Department of Transportation

Standard Pretensioned Concrete Girder
WF Girders
Details 1 of 5