

Last revised on : 6/9/2016

SR FILE NO. SHEET

5.6-A6-1

GIRDER SCHEDULE

SPAN	GIRDER	GIRDER SERIES	TOP FLANGE WIDTH W	PLAN LENGTH (ALONG GIRDER GRADE) (SEE GIRDER NOTE 1)	GIRDER END DETAILS						MIN. CONC. COMP. STRENGTH		NUMBER OF STRANDS (SEE GIRDER NOTE 2)		LOCATION OF C.G. STRANDS			STRAIGHT STRANDS TO EXTEND		MIDSPAN VERTICAL DEFLECTION D		REINFORCEMENT DETAILS						SHIPPING AND HANDLING DETAILS										
					END 1 TYPE	END 2 TYPE	Ld	θ1	θ2	P1	P2	@ 28-DAYS F/C (KSI)	@ RELEASE F/C (KSI)	STRAIGHT	HARPED	E	Fℓ	Fo	END 1	END 2	LOWER BOUND @ 40 DAYS	UPPER BOUND @ 120 DAYS	ZONE 1		ZONE 2		ZONE 3		L	L1	L2	K _θ MINIMUM SHIPPING SUPPORT ROTATIONAL SPRING CONSTANT	W _{CC} MINIMUM SHIPPING SUPPORT CNTR.-TO-CNTR. WHEEL SPACING					
																							SPACING	LENGTH	SPACING	LENGTH	SPACING	LENGTH										
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NOTES TO DESIGNER:

1. WF DECK GIRDER DETAIL SHEETS 2 TO 4 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.
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. 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".
4. THE NUMBER OF HARPED STRANDS SHOULD NOT EXCEED HALF THE NUMBER OF STRAIGHT STRANDS UNLESS THE STRAIGHT STRAND PATTERN IS FULL.
5. MINIMUM WIDTH "W" SHALL BE 5'-0" TO ALLOW FOR INSPECTION ACCESS. MAXIMUM WIDTH "W" SHALL BE 8'-0".
6. ENSURE HARPED STRANDS EXIT GIRDER END BELOW BLOCKOUT FOR END TYPE B.
7. GIRDER END SKEW IS LIMITED TO 30°.
8. IT IS ASSUMED THAT THE FINAL PROFILE GRADE IS PROVIDED BY VARYING THE OVERLAY THICKNESS. INSTEAD, THE DESIGNER COULD ADD A "GIRDER FLANGE THICKENING" DETAIL TO ACCOUNT FOR PROFILE GRADE AND PRESTRESSING CAMBER EFFECTS.

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 0.6"Ø AASHTO M203 GRADE 270 LOW RELAXATION STRANDS, JACKED TO 202.5 KSI.
3. STRUCTURAL STEEL SHAPES AND ASSEMBLIES SHALL BE ASTM A36. THEY SHALL BE PAINTED WITH A PRIMER COAT IN ACCORDANCE WITH STD. SPEC. 6-07.3(9). WELD TIES SHALL BE PAINTED WITH A FIELD PRIMER COAT OF AN ORGANIC ZINC PAINT AFTER FIELD WELDING.

Bridge Design Engr.		M:\STANDARDS\Girders\WFDG\WFDG GIRDER DETAILS 1 OF 4.MAN												REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS		
Supervisor															10	WASH.				
Designed By															JOB NUMBER					
Checked By																				
Detailed By																				
Bridge Projects Engr.																				
Prelim. Plan By																				
Architect/Specialist	DATE	REVISION	BY	APP'D																

BRIDGE
AND
STRUCTURES
OFFICE



**STANDARD
PRESTRESSED CONCRETE GIRDERS**

WF DECK GIRDER
DETAILS 1 OF 4

BRIDGE SHEET NO.

SHEET

OF

SHEETS