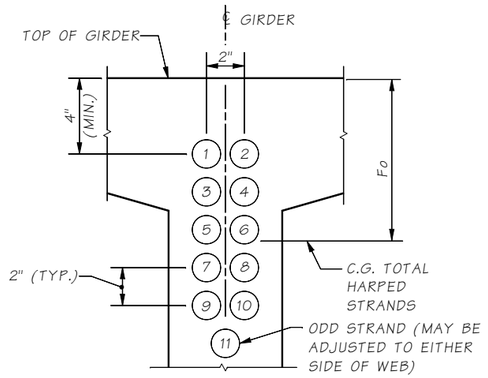
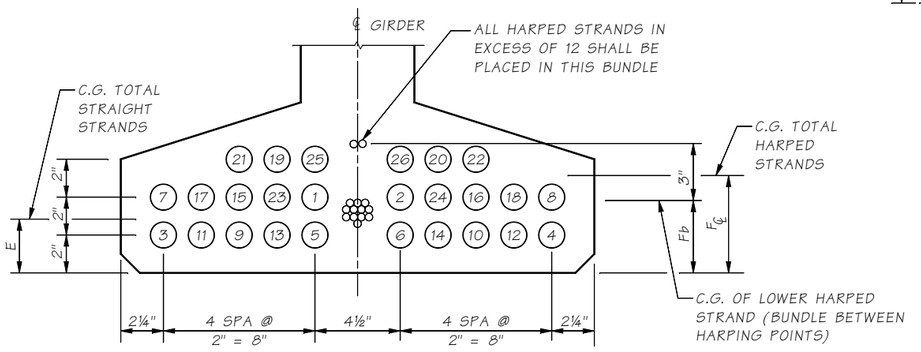


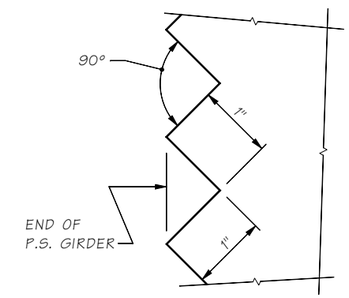
STRAND PATTERN AT GIRDER END

HARPED STRAND LOCATION SEQUENCE SHALL BE AS SHOWN (1), (2) ETC.



STRAND PATTERN AT ℄ SPAN

STRAIGHT STRAND LOCATION SEQUENCE SHALL BE AS SHOWN (1), (2) ETC.

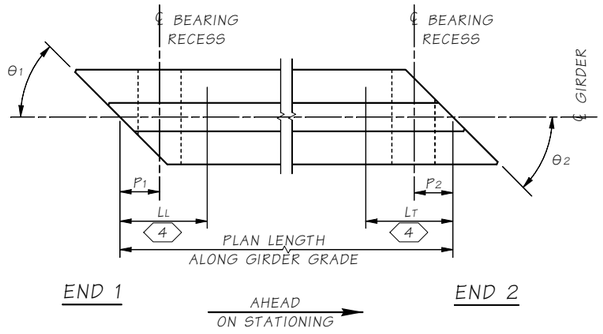


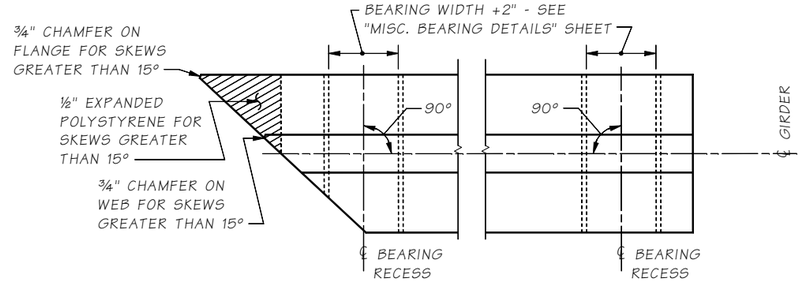
SAWTOOTH DETAILS

3

GIRDER SCHEDULE

DIMENSION "A" AT ℄ BEARINGS =														BASED ON GIRDER DEFLECTION = "D" AT TIME OF SLAB PLACEMENT (120 DAYS)											
												MIN. CONC. COMP. STRENGTH		HARPED		STRAIGHT		LOCATION OF C.G. STRANDS							
SPAN	GIRDER	END 1 TYPE	END 2 TYPE	L	LL	LT	θ1 (DEG.)	θ2 (DEG.)	P1	P2	PLAN LENGTH (ALONG GIRDER GRADE)	@ FINAL F'C (KSI)	@ RELEASE F'CI (KSI)	NO. OF STRANDS	JACKING FORCE (KIPS)	NO. OF STRANDS	JACKING FORCE (KIPS)	E	F℄	Fb	Fo	C	D @ 40 DAYS	D @ 120 DAYS	Ld
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

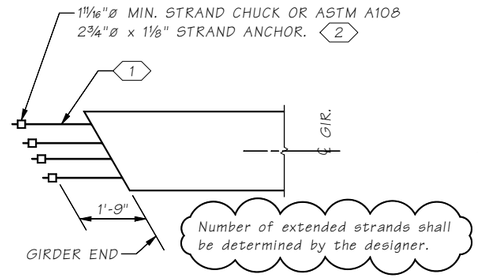




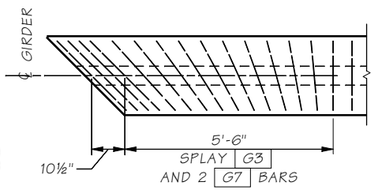
PLAN
BEARING RECESS AND BOTTOM FLANGE SPALL PROTECTION

NOTE:
Dimensions shall be shown in Imperial units to the nearest 1/8th inch.

The number of harped strands should not exceed ½ of the number of straight strands.

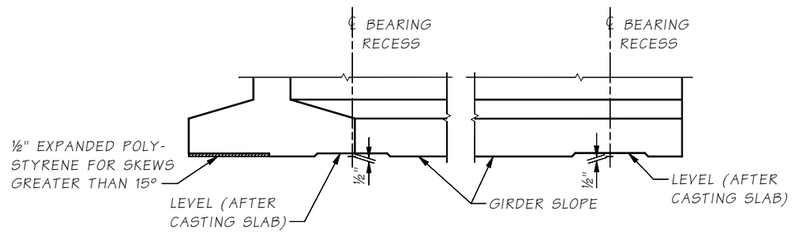


STRAND EXTENSION DETAIL



TRANSVERSE REINFORCING SKEWED ENDS

ONLY TRANSVERSE REINF. SHOWN



ELEVATION

NOTES:

1. EXTEND STRAIGHT STRANDS (3) THROUGH (6) AT END HEAD ON STATION. EXTEND STRAIGHT STRANDS (7) THROUGH (10) AT END BACK ON STATION.
2. ANCHOR STRAND WITH WEDGES BEFORE GIRDER ERECTION. VERIFY WEDGES ARE SEATED TIGHTLY IMMEDIATELY BEFORE PLACING DIAPHRAGM CONCRETE.
3. SAWTEETH ARE FULL WIDTH - USE SAWTOOTH KEYS FROM BOTTOM OF BOTTOM FLANGE TO BOTTOM OF LOWEST HARPED STRAND AS WELL AS TOP FLANGE ADJACENT TO HARPED STRANDS AS SHOWN IN VIEW B - GIRDER DETAILS 1 OF 2.
4. LL AND LT ARE SHIPPING SUPPORT LOCATIONS AT LEADING AND TRAILING ENDS, RESPECTIVELY.

Bridge Design Engr.	M:\STANDARDS\Girders\W\W50G\W50G2.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

Washington State Department of Transportation

STANDARD PRESTRESSED CONCRETE GIRDERS

W50G GIRDER DETAILS 2 OF 2

BRIDGE SHEET NO.

SHEET OF SHEETS

Last revised: 07/07/2020

SR JOB NO. SHEET

5.6-A3-4

Tue Jul 07 12:51:50 2020