LONGIT, STIFFENER BAR SHEAR CONNECTOR (5" X ½" MIN.) GIVE SHEAR CONNECTOR SPACING MIN. SIZE: 12" X $\frac{3}{4}$ " FOR WEB DEPTHS < 66" 14" X $\frac{3}{4}$ " FOR WEB DEPTHS > 66" MIN WEB DEPTH = = = SEE TABLE OF FILLET STIFFS. WELD SIZES (5" X ½" MIN.) %6" MIN. WEB P/L IS OFTEN COST EFFECTIVE TO THICKEN THE WEB TO OMIT MOST TRANSVERSE STIFFENERS J 6" AT ABUT END OF GIRDER - INVESTIGATE THE POSSIBLE NEED OF CUTTING THE END OF GIRDER WEB VERT. ON STEEP GRADES. (PLACE BRG. STIFFENERS VERT. IF END OF GIRDER IS CUT VERT.) (INT. STIFFENERS TO BE PLACED NORMAL TO TOP FLANGE.)

NOTE: USE THREE FIELD WELDED

PART GIRDER ELEVATION

½" DIA. X 5" LONG ⊖STUDS EQUALLY SPACED WITH A MIN. OF 1½" CL. FROM THE FLANGE EDGE. STUDS SHALL NOT BE PLACED TOP OF SLAB 2 EQ. SPA

OUSE DIFFERENT LENGTH STUDS IF 2½ " MIN. CLEARANCE OR 2" EXTENSION CRITERIA IS VIOLATED.

SHEAR CONN. **DETAILS**

SEE "STIFF. & CONN. STIFF. TO WEB/FLANGE CONN.

SEE DETAIL A

CONNECTION STIFF. DETAILS

STIFFENE

5∕₁₆" MAX.

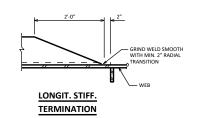
- GRIND FLG. TOE

DETAIL A

CONNECTION STIFFENER DETAIL @ TENSION FLANGE

WELDS" DETAIL

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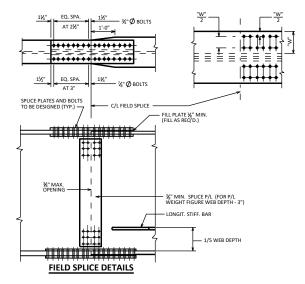
BRG. STIFF. DETAILS

TYP. AT ABUT. & PIER

SEE "STIFF. & CONN. STIFF. TO WEB/FLANGE CONN.

MILL TO BEAR

WELDS" DETAIL



NOTES

OPTIONAL WELDED SHOP SPLICES MAY BE USED FOR ALL FLANGE AND WEB PLATES OVER 60'-0" LONG. IF USED, THE LOCATION OF THE SPLICE SHALL BE SHOWN ON SHOP DRAWINGS AND WILL BE SUBJECT TO THE APPROVAL OF THE STRUCTURES

OPTIONAL FLANGE BUTT SPLICE. A FLANGE PLATE OF THE LARGER SIZE MAY BE FURNISHED FULL LENGTH, BUT PAY WEIGHT SHALL BE BASED ON SECTIONS AS DETAILED. IF A PERMANENT HOLD DOWN DEVICE IS USED AT THE ABUTMENT, THEN THE BUTT SPLICE SHALL NOT BE OPTIONAL

PRIOR TO STEEL BLAST, ALL FLAME CLIT EDGES OF PLATE THAT ARE TO BE PAINTED. SHALL BE GROUND OR PLANET OF DEMOVE THE HARDENED SURFACE CAUSE BY THE FLAME, AND CORNERS CHAMFERED $\frac{1}{16}$ " MINIMUM.

- TOP FLANGE TENSION ZONE. FIELD WELDING PROHIBITED IN TOP FLANGE TENSION ZONE AREAS, EXCEPT SHEAR CONNECTORS.
- BOTTOM FLANGE TENSION ZONE. FIELD WELDING PROHIBITED IN BOTTOM FLANGE TENSION ZONE AREAS.

DESIGNER NOTES

BASE REAM SEAT ELEVATIONS AT ABUTMENT ON THICKER ELANGE AND DETAIL SHIM PLATES TO ACCOMMODATED THINNER FLANGE

AT EXTERIOR GIRDERS PLACE INTERMEDIATE TRANSVERSE STIFFENERS ON INTERIOR FACE OF GIRDER. PLACE LONGITUDINAL STIFFENERS ON THE OUTSIDE FACE.

AT INTERIOR GIRDERS PLACE INTERMEDIATE TRANSVERSE STIFFENERS ON ONE SIDE OF GIRDER AND LONGITUDINAL STIFFENERS ON THE OPPOSITE SIDE OF GIRDER. KEEP INTERMEDIATE STIFFENERS ON ONE SIDE WHEN LONGITUDINAL STIFFENERS ARE NOT REQUIRED.

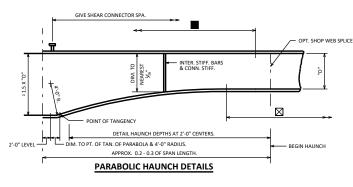
AVOID USE OF LONGITUDINAL STIFFENERS IF PRACTICAL BY THICKENING WEB. WHERE LONGITUDINAL STIFFENERS ARE USED, RUN THEM CONTINUOUS WITHOUT BREAKS AT CONNECTION STIFFENERS

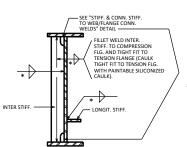
AT EXTERIOR GIRDER PLACE INTERMEDIATE STIFFENERS ALONG ENTIRE LENGTH OF GIRDER AT A MAX. SPACING EQUAL TO 1.5 X THE DEPTH OF WEB. SPACE FOLIALLY BETWEEN DIAPHRAGM CONNECTION STIFFENER. THIS WEB. SPACE EQUALIT BETWEEN DIAPHRAGM CONNECTIONS TIFFENER. THE REQUIREMENT IS NECESSARY TO SUPPORT THE FALSEWORK FOR THE SLAB OVERHANG AND MAY BE DISREGARDED IF THE SLAB OVERHANG, MEASURED FROM C/L WEB, IS 1"-6" OR LESS OR ANY OF THE FOLLOWING CRITERIA ARE SATISFIED:

- ...WEB THICKNESS > $\frac{1}{6}$ " AND WEB DEPTH < 48" ...WEB THICKNESS > $\frac{1}{1}$ 6" AND WEB DEPTH < 60" ...WEB THICKNESS > $\frac{3}{4}$ " AND WEB DEPTH < 66"

SEE STANDARD 40.07 FOR CONNECTING ANY NEW STIFFENERS TO EXISTING GIRDERS.

SHOW THE TENSION ZONES ON THE PLANS.





INTERMEDIATE & LONGITUDINAL STIFF. DETAILS (ALL GIRDERS)

TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	MIN. SIZE OF FILLET WELD
TO ½" INCLUSIVE	₹16"
OVER ½" TO ¾"	1∕4"
OVER ¾" TO 1½"	∆ 5½"
OVER 1½"	∆ ¾"

★FYCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△ MIN. PASS SIZE IS ¾6"



* CONN. STIFF. INT. STIFF. & BRG. STIFF

> STIFF. & CONN. STIFF. TO WEB/FLANGE CONN. WELDS

∠
√
8" MIN., ½" MAX. TYP.

PLATE GIRDER DETAILS



APPROVED: Laura Shadewald 1-24

