

Greenman-Pedersen, Inc.

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Project:	D214922 NYSTA over Mohawk St Bridge Replacement		
Sheet No:	61	of	173
Calculated By:	DT	Date:	12/3/2024
Checked By:	SCM	Date:	12/3/2024
Total:	16,300	EA	

Item: 556.03

Stud Shear Connectors for Bridges

Units: EA

Section 550 - Structures

Description:

Shear studs placed at 6 inch spacing from 0.58 to 74.84 on each girder . 4 studs per row.

From STEEL GIRDER DETAILS 1

Calculations:

Number of interior girders =	16	Start Studs =	0.5 ft.
Number of fascia girders =	4	End Studs =	101.5 ft.
Number of rows on interior girder =	203	Spacing =	0.5 ft.
Number of rows on fascia girder =	203	# of Spaces =	202 spaces
Studs per Interior girder =	812		
Studs per fascia girder =	812		

Number of interior girder studs =	12,992
Number of fascia girder studs =	3,248

Total number of west approach studs = 16,240

Item Total: 16,240 EA

Say: 16,300 EA