

05-2016
det3345.dgn

DET3345

GIRDER SCHEDULE

Girder Type	Number Required	Span Number	Span Length ctr.-ctr. Bearings along Girder $\mathcal{C}$	Concrete Strength @ 28 Days, ksi	Concrete Strength @ Release, ksi	Initial Tension per Strand, kips	Number of Strands per Girder, "N"	Deflected Strands per girder, "DS"	Figure Number for Strand Pattern	Girder End	Pin Required	End Block	Diaphragm Angle ϕ	Variable Dimensions							Stirrup Spacing			Strands Tubed		Girder Weight, kips	Estimated Midspan Deflection, in.					Est. Shortening 2 weeks after Release, in.
														"A"	"B"	"C"	"D"	"E"	"F"	"G"	"a" spaces	"b" spaces	"e"	"f"	"g"		Upward at Release	Upward 3 months after Release	Down Due to Non-Comp. Dead Load	Down Due to Comp. Dead Load		
										Bk																						
										Ahd																						
										Bk																						
										Ahd																						
										Bk																						
										Ahd																						
										Bk																						
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										Bk																						
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										Bk																						
										Ahd																						

FIGURE 1

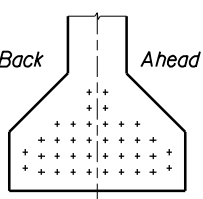


FIGURE 2

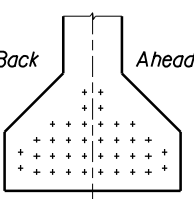
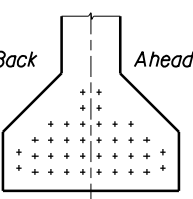


FIGURE 3



"N"

"DS"

"yc"

"lc"

Back

Ahead

Back

Ahead

Back

Ahead

"ye"

"le"

Dimensions shown in table are horizontal dimensions. Correct finished length of girder $\mathcal{C}$ to $\mathcal{C}$ of bearing (dimension "B") for variation due to grade. Allowance to be provided by fabricator for elastic shortening, creep, and shrinkage. The designations Bk and Ahd refer to back and ahead on station.

Note:

Transport members in accordance with Section 00550.49 of the Standard Specifications for Highway Construction. Place members no less than ----- days after casting.

Note:

For temporary diaphragm beam details, see Dwg. BR350

NOTE TO DESIGNER

Remove note if 7 day transport and placement is okay without placement restrictions.

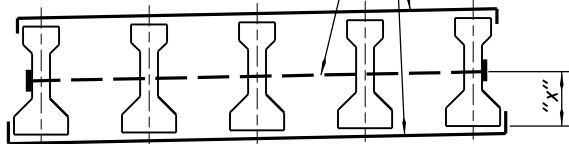
(Alternate A)

One cable restraint at each Beam D.

After restraint is removed, fill hole with concrete and finish flush with surface of girder-exterior girders only.

(Alternate B)

Cable restraints top and bottom at each Beam D.

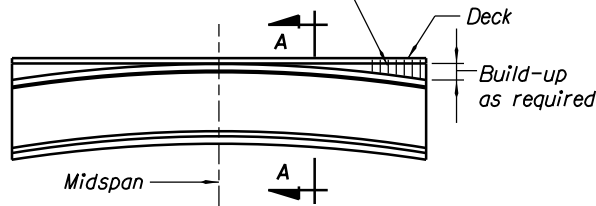


GIRDER RESTRAINT DIAGRAM

Note:

Snug fit prestressed girders against forms prior to diaphragm pour. Keep restraints in place a minimum of two days after completion of diaphragm pour.

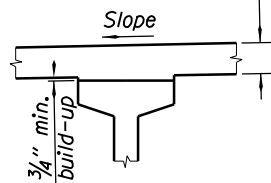
When the girder build-up exceeds 3" and/or the girder stirrups extend less than 2" into the deck, add #4 stirrup extensions. Place stirrup extensions at each girder stirrup and tie to the girder stirrup. Where girder stirrup spacing is 6" or less, place stirrup extensions @ 12" max.



Ensure girder are soffits shall be on level grade prior to prestressing. Use build-up over girders to compensate for the difference between deck elevation and girder camber.

BUILD - UP DECK DETAIL

Minimum deck thickness. This dimension assumes girder fabrication and erection will meet the required deck elevations. In case of variations, lower girder to meet corrected elevation.



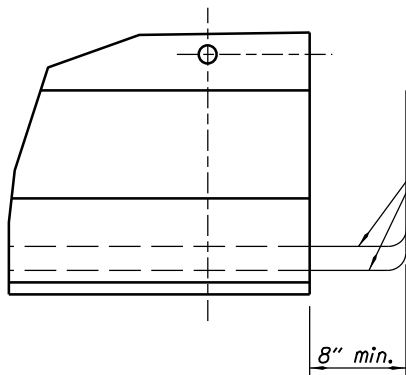
SECTION A-A

NOTE TO DESIGNER

Design girders using 3/4" min. build-up over girders.

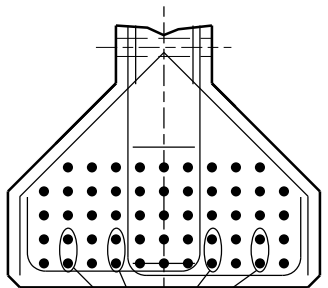
NOTE TO DESIGNER

Modify dimensions and locations of extended strands as required by the design.



PARTIAL END ELEVATION

Extend --- strands, --- " long. Bend strands as shown after forms are removed.



PARTIAL END VIEW

Extended strands w/90° hook

STRAND EXTENSION DETAIL

The selection and use of this detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a Registered Professional Engineer.



OREGON DEPARTMENT OF TRANSPORTATION
TECHNICAL SERVICES
DETAILS

AASHTO GIRDER
SCHEDULE AND
MISCELLANEOUS DETAILS

DETAIL NO.

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