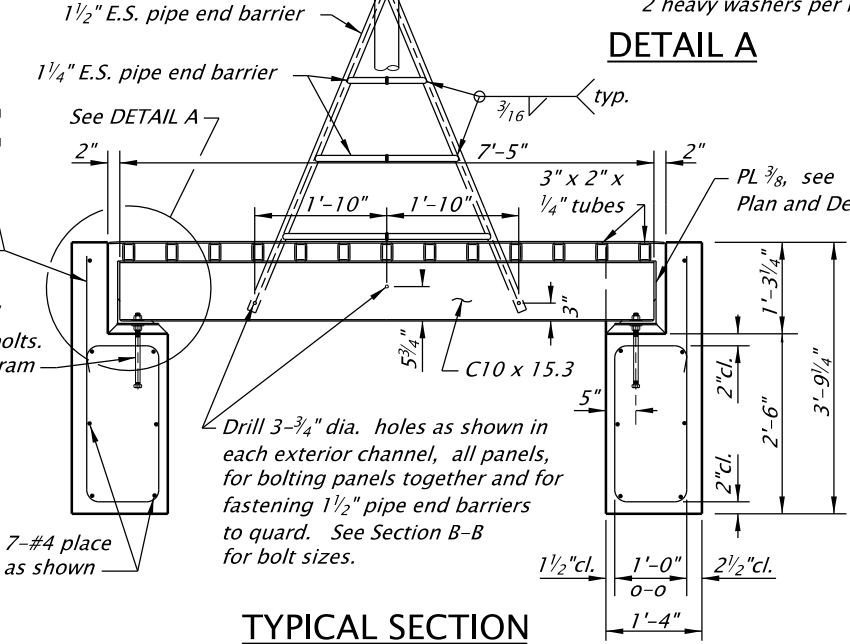
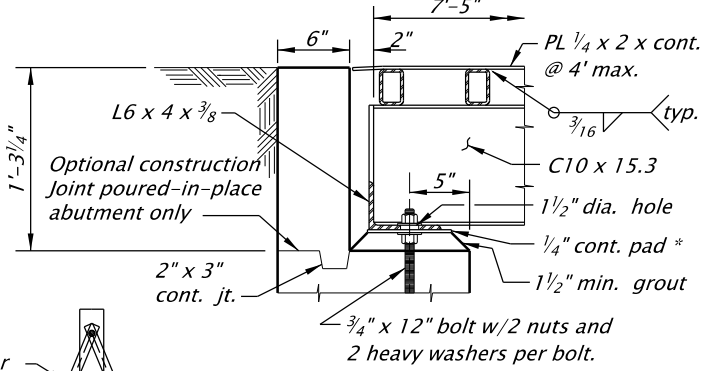
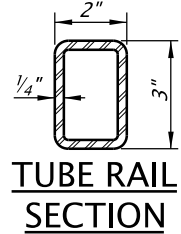
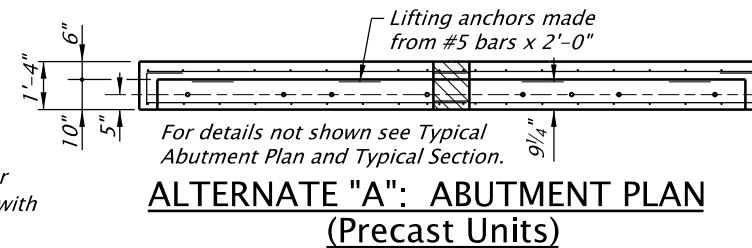
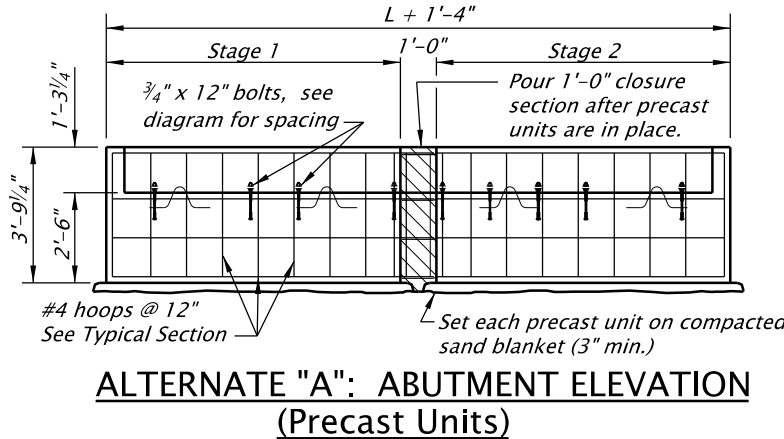
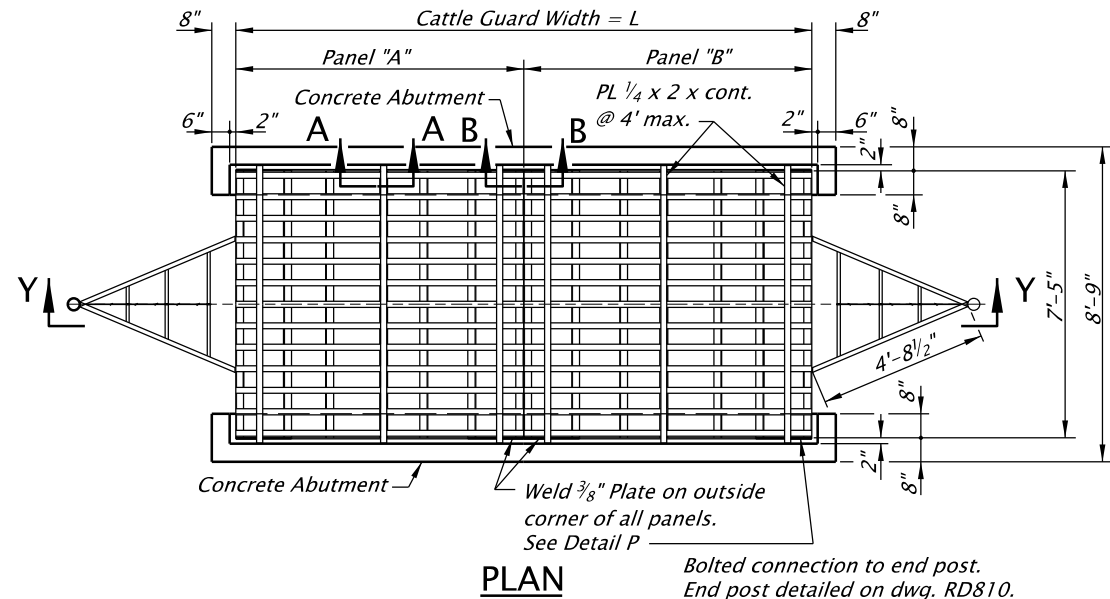
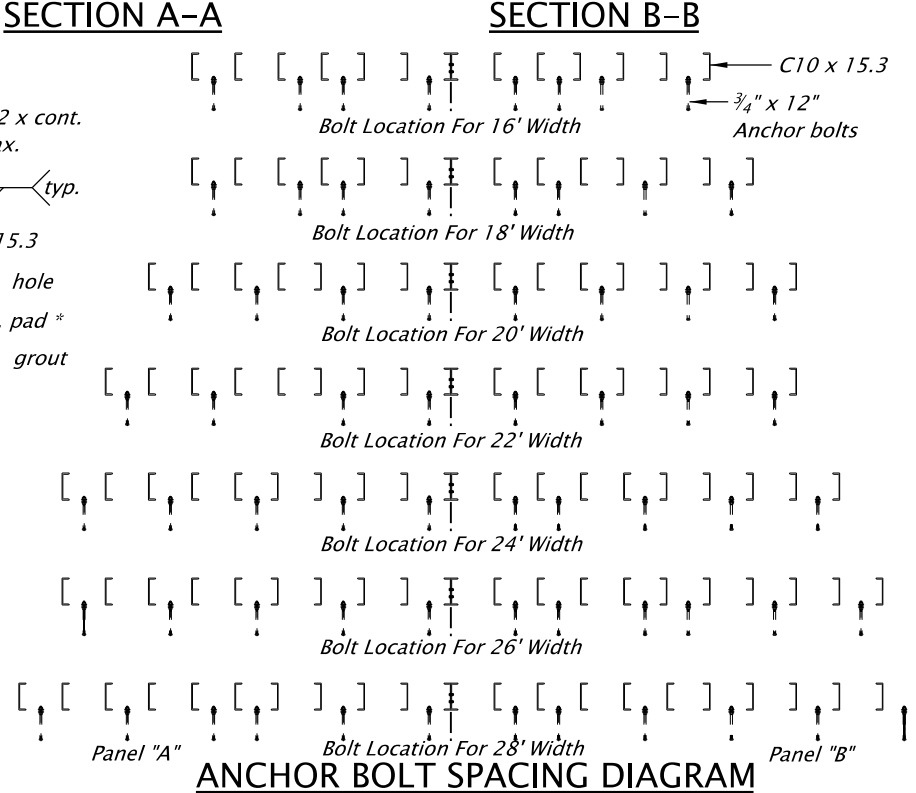
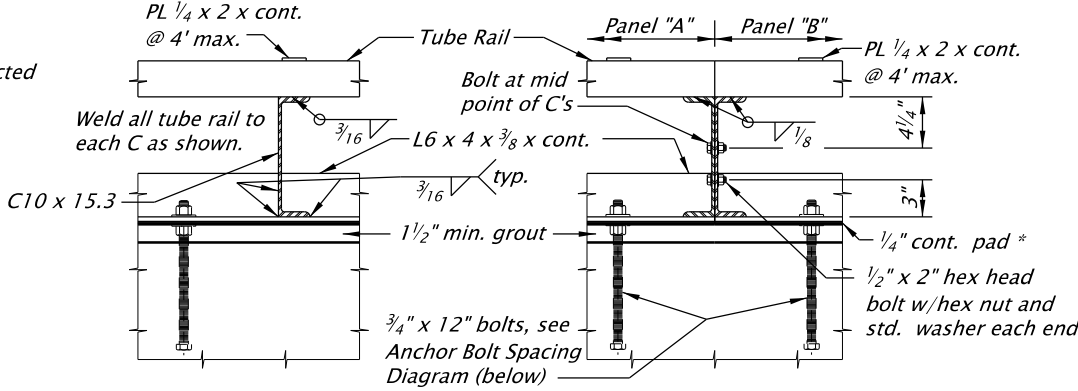


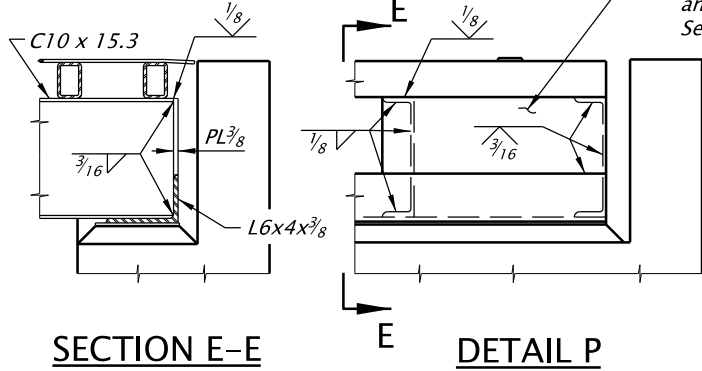
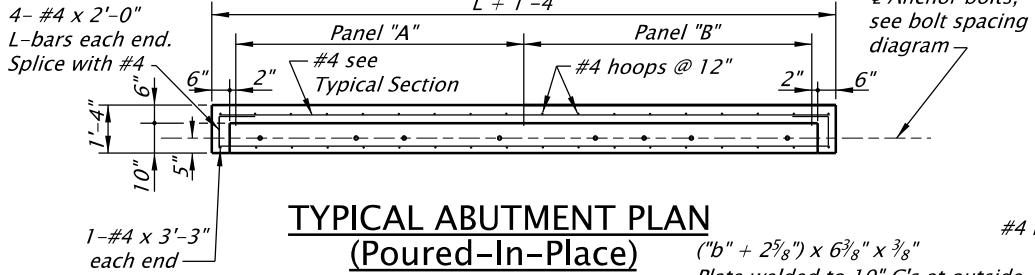
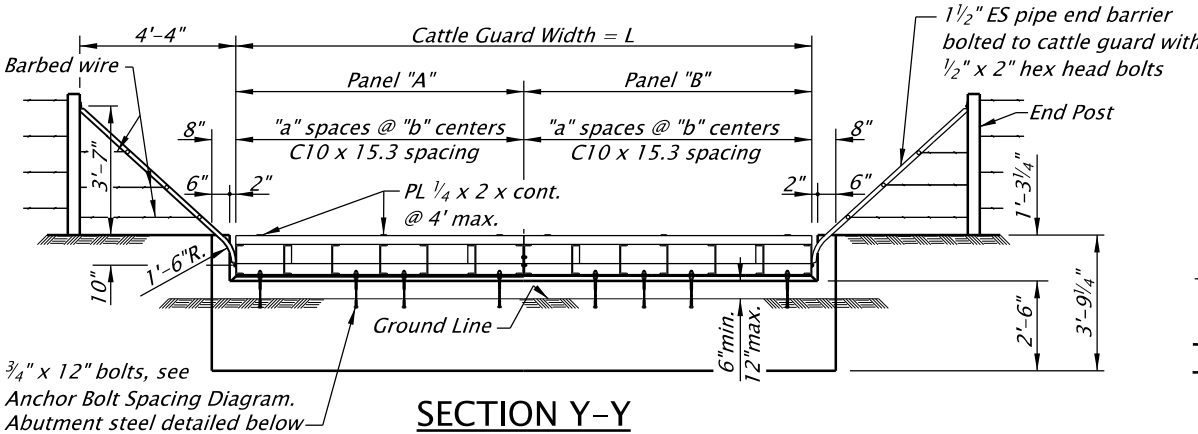


Note
Anchor bolts to be located midway between channels as shown in the above diagram. See chart at top of sheet for channel spacing.
* 1/4" cont. elastomeric pad

Cattle Guard Width	Size of Panels				Rails per Panel	Understructure Channels				Alternate "A" Abutment	
	"A" Length	"A" Width	"B" Length	"B" Width		Panel "A" a	Panel "A" b	Panel "B" a	Panel "B" b	Stage 1	Stage 2
L											
16'-0"	7'-5"	8'-0"	7'-5"	8'-0"	13	6	16"	6	16"	9'-4"	7'-0"
18'-0"	7'-5"	8'-4"	7'-5"	9'-8"	13	6	16 5/8"	7	16 5/8"	9'-8"	8'-8"
20'-0"	7'-5"	9'-4"	7'-5"	10'-8"	13	7	16"	8	16"	10'-8"	9'-8"
22'-0"	7'-5"	11'-0"	7'-5"	11'-0"	13	8	16 1/2"	8	16 1/2"	12'-4"	10'-0"
24'-0"	7'-5"	12'-0"	7'-5"	12'-0"	13	9	16"	9	16"	13'-4"	11'-0"
26'-0"	7'-5"	12'-4"	7'-5"	13'-8"	13	9	16 7/16"	10	16 7/16"	13'-8"	12'-8"
28'-0"	7'-5"	13'-4"	7'-5"	14'-8"	13	10	16"	11	16"	14'-8"	13'-8"



3/4" x 12" bolts, see Anchor Bolt Spacing Diagram. Abutment steel detailed below



Note
Provide all structural steel tubing to ASTM Specification A501 or A500 Grade B.
Provide all steel pipe to ASTM Specification A53 Type F.
Provide all structural carbon steel, except tubing pipe and bolts to ASTM Specification A36.
Provide all bolts to ASTM Specification A307.

<i>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user and should not be used without first consulting a Registered Professional Engineer.</i>	All materials shall be in accordance with the current Oregon Standard Specifications.		
	OREGON STANDARD DRAWINGS		
	CATTLE GUARD		
	2024		
	DATE	REVISION DESCRIPTION	
	-	-	
CALC. BOOK NO.	N/A	SDR DATE	20-APR-2018
			BR175