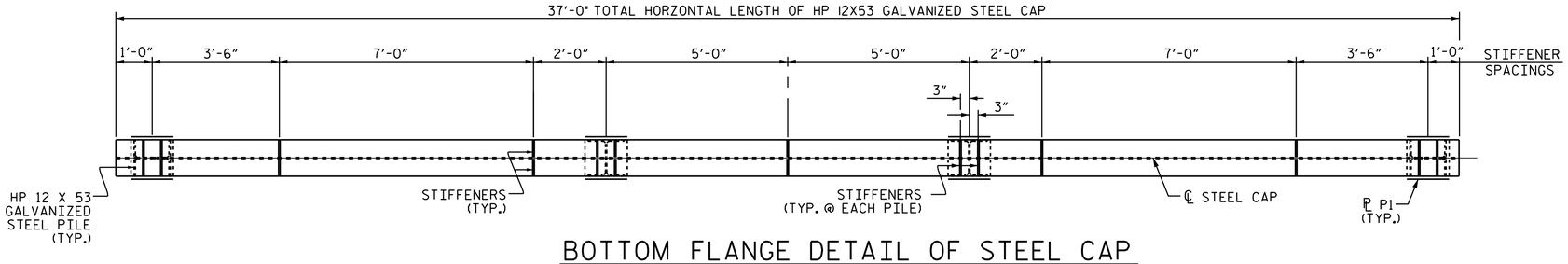
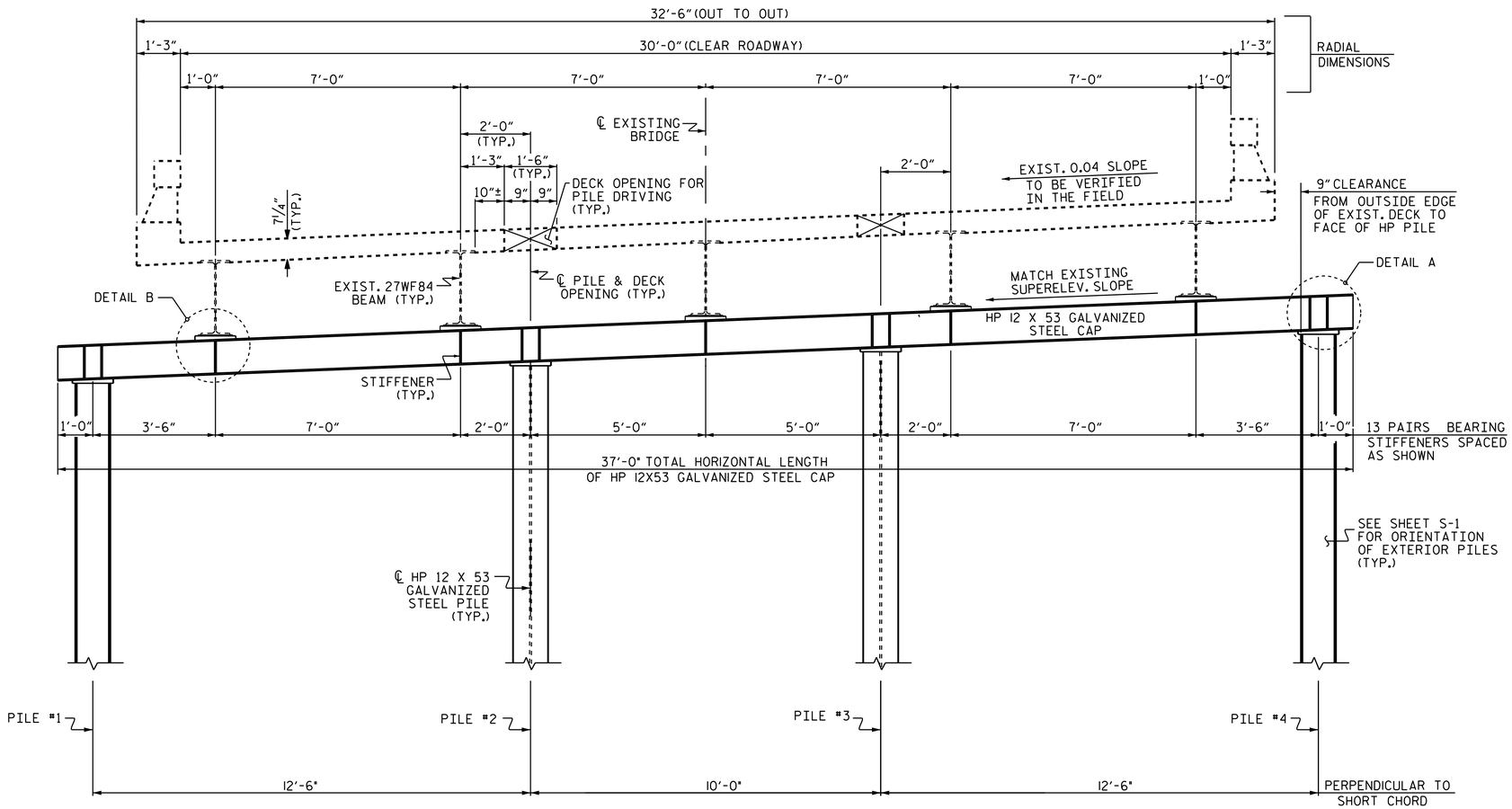


BOTTOM FLANGE DETAIL OF STEEL CAP



ELEVATION

3 CRUTCH BENTS REQUIRED.
PILE ORIENTATION AS SHOWN.

NOTES

STEEL AND CONNECTOR PLATES SHALL BE AASHTO M270 GRADE 36 OR APPROVED EQUAL.

GALVANIZE ALL PILES, BEAMS, PLATES, AND STIFFENERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL DETERMINE THE PILE CUTOFFS IN THE FIELD.

BILL OF MATERIAL

FOR THREE CRUTCH BENTS

MEMBER	LENGTH OR SIZE	NO.	TOTAL LENGTH	WEIGHT (LBS.)
HP 12x53 CAP	37'-0"	3	111'-0"	5,883
STIFFENER	1/2" X 11" X 6"	78		730
BEARING ℗ P1	1" X 1'-2" X 1'-2"	27		1,502
TOTAL WEIGHT STRUCTURAL STEEL				8,115

* SHIM PACK OF VARIOUS THICKNESSES

HP 12X53 GALVANIZED STEEL PILES

CRUTCH BENT 1:	NO. 4	LIN. FT. = 240
CRUTCH BENT 2:	NO. 4	LIN. FT. = 200
CRUTCH BENT 3:	NO. 4	LIN. FT. = 240
TOTAL:	NO. 12	LIN. FT. = 680

* THE CONTRACTOR SHALL NOTE:

BILL OF MATERIAL DOES NOT INCLUDE THE WEIGHT OF THE SHIM PLATES.

THE CONTRACTOR SHALL PROVIDE APPROPRIATE SHIM PLATES AS REQUIRED TO PROVIDE A TIGHT FIT.

THE COST OF THE SHIM PLATES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR STRUCTURAL STEEL.

NORTH CAROLINA PROFESSIONAL SEAL 16301 ENGINEER TING HSILING FANG

DocuSigned by: Ting H. Fang
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12/19/2014

PROJECT NO. B-5127
HOKE COUNTY
BRIDGE NO. 100
SHEET 3 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STEEL CRUTCH BENT DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-3
1			3			TOTAL SHEETS
2			4			4

DRAWN BY : T. H. FANG DATE : 10/13/14
CHECKED BY : S. WANCE DATE : 11/05/14
DESIGN ENGINEER OF RECORD: T. H. FANG DATE : 11/07/14

19-DEC-2014 12:23
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