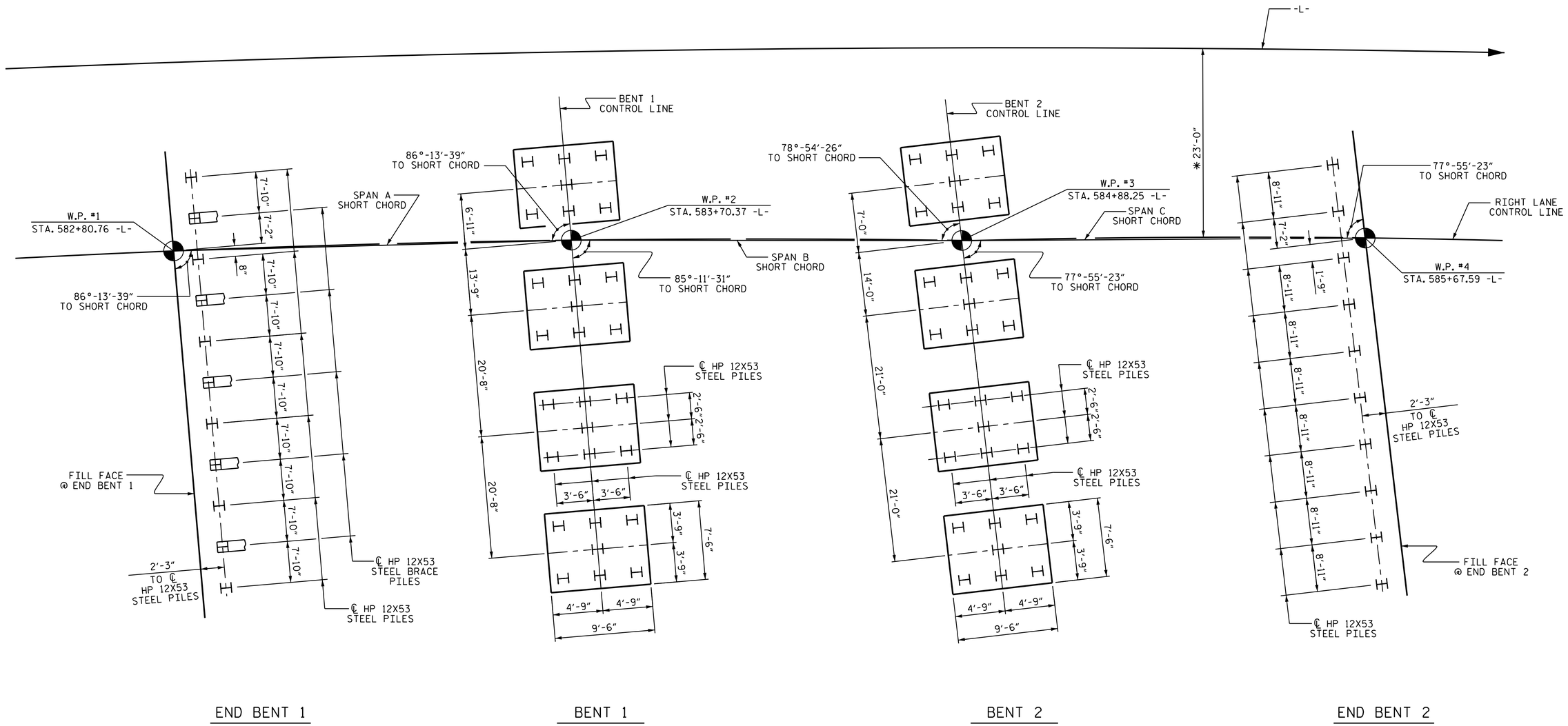

FOUNDATION LAYOUT

END BENT BRACE PILES ARE BATTERED 3:12.
DIMENSIONS & PILE LAYOUT ARE TYPICAL FOR EACH FOOTING.

✱ RADIAL DIMENSION

PROJECT NO. U-2579B
FORSYTH COUNTY
STATION: 584+36.24 -L-

SHEET 2 OF 4

NOTES

FOR PILES, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

OBSERVE A 2 MONTH WAITING PERIOD AFTER CONSTRUCTING THE EMBANKMENT TO WITHIN 2 FT. OF FINISHED GRADE BEFORE BEGINNING END BENT CONSTRUCTION AT END BENT 1 AND 2.

PILES AT END BENT 1 AND END BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 120 TONS PER PILE.

DRIVE PILES AT END BENT 1 AND END BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

PILES AT BENT 1 AND BENT 2 ARE DESIGNED FOR A FACTORED RESISTANCE OF 120 TONS PER PILE.

DRIVE PILES AT BENT 1 AND BENT 2 TO A REQUIRED DRIVING RESISTANCE OF 200 TONS PER PILE.

STEEL H-PILE POINTS ARE REQUIRED FOR STEEL H-PILES AT BENT 2 AND END BENT 2. FOR STEEL PILE POINTS, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

TESTING PILES WITH THE PDA DURING DRIVING, RESTRIKING OR REDRIVING MAY BE REQUIRED. THE ENGINEER WILL DETERMINE THE NEED FOR PDA TESTING. FOR PDA TESTING, SEE SECTION 450 OF THE STANDARD SPECIFICATIONS.

IT HAS BEEN ESTIMATED THAT A HAMMER WITH AN EQUIVALENT RATED ENERGY IN THE RANGE OF 60,000 FT-LBS PER BLOW WILL BE REQUIRED TO DRIVE PILES AT ALL 4 BENTS. THIS ESTIMATED ENERGY RANGE DOES NOT RELEASE THE CONTRACTOR FROM PROVIDING DRIVING EQUIPMENT IN ACCORDANCE WITH SUBARTICLE 450-3(d)(2) OF THE STANDARD SPECIFICATIONS.

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: Vipul A. Patel
1C157DE15D4844A...
8/1/2014

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

GENERAL DRAWING

FOR BRIDGE OVER PISGAH CHURCH ROAD, NORFOLK SOUTHERN RAILROAD AND WEST MOUNTAIN ROAD ON WINSTON SALEM NORTHERN BELTWAY BETWEEN US 158 AND US 421 (RIGHT LANE)

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-180
1			3			TOTAL SHEETS
2			4			707

STR. #6

DRAWN BY : J.P. MCCARTHA DATE : 2/13/14
CHECKED BY : R.P. PATEL DATE : 2/21/14
DESIGN ENGINEER OF RECORD: H.A. LOCKLEAR DATE : 5/29/14

30-JUL-2014 12:58
R:\Structures\Plans\Str06\U2579B_SD_GD_06.dgn
lsutton