CL BEAM 1 CL BEAM 2 CL BEAM 3 CL BEAM 4

EAST FACE

WEST FACE

TOP OF CAP

AS-BUILT REPAIR QUANTITY TABLE
BENT 149

CAP REPAIRS	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	3.0 SF	1.5 CF	SF	CF
EPOXY RESIN INJECTION	3.0 LF		LF	
COLUMN REPAIRS	ESTIMATE		ACTUAL	
SHOTCRETE REPAIRS	6.1 SF	3.1 CF	SF	CF
EPOXY RESIN INJECTION	– LF		LF	
PILE REPAIRS	ESTIMATE		ACTUAL	
FRP PROTECTIVE SYSTEM AWL	– SF		SF	
FRP PROTECTIVE SYSTEM BWL	302.5 SF		SF	

FOR CAP REPAIRS: VALUES IN CHART REPRESENT ESTIMATED REPAIR TOTALS
AFTER REMOVAL OF UNSOUND CONCRETE, MIN. OF 1"BEHIND REBAR AND MIN.
2"CL TO SAWCUT. SEE REPAIR DETAILS.

NOTES:

REPAIR LOCATIONS AND ESTIMATE OF QUANTITIES ARE GIVEN WITH THE
BEST INFORMATION AVAILABLE. IF ADDITIONAL REPAIRS NOT SHOWN ON THE
DRAWINGS ARE DEEMED NECESSARY BY THE ENGINEER THE CONTRACTOR SHALL
NOTE ON THE DRAWINGS THE APPROXIMATE LOCATION AND DESCRIPTION OF
THE REPAIRS AND ADJUST THE ACTUAL QUANTITIES ENTERED INTO THE
REPAIR QUANTITY TABLE.

FOR SHOTCRETE REPAIRS, SEE SPECIAL PROVISIONS.

FOR CONCRETE REPAIR DETAILS, SEE "TYPICAL CAP, COLUMN & UNDERDECK
REPAIR DETAILS" & "PILE CONCRETE RESTORATION DETAILS" SHEETS.

FOR FOOTING, COLUMN, AND STRUT REPAIR DETAILS, SEE "PILE FOOTING
RESTORATION" SHEET.

FOR PILE CONCRETE RESTORATION, SEE SPECIAL PROVISIONS.

FOR FRP PROTECTIVE SYSTEM, SEE SPECIAL PROVISIONS.

FOR FRP PROTECTIVE SYSTEM DETAILS AND UNDERWATER MORTAR REPAIRS,
SEE "PILE FRP PROTECTIVE SYSTEM DETAILS" SHEET.
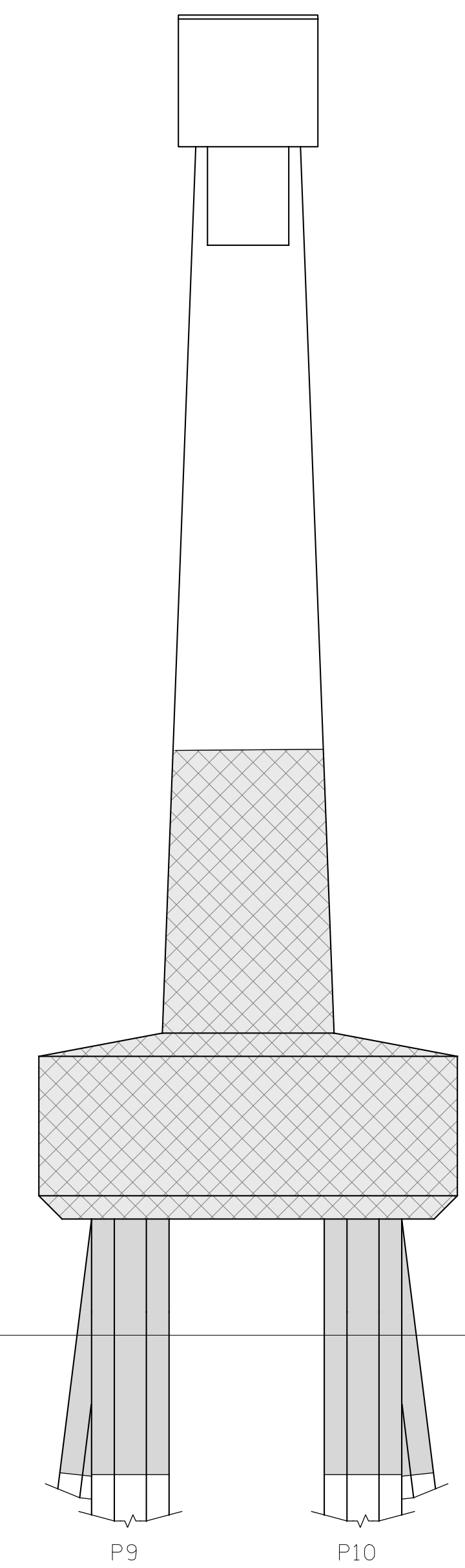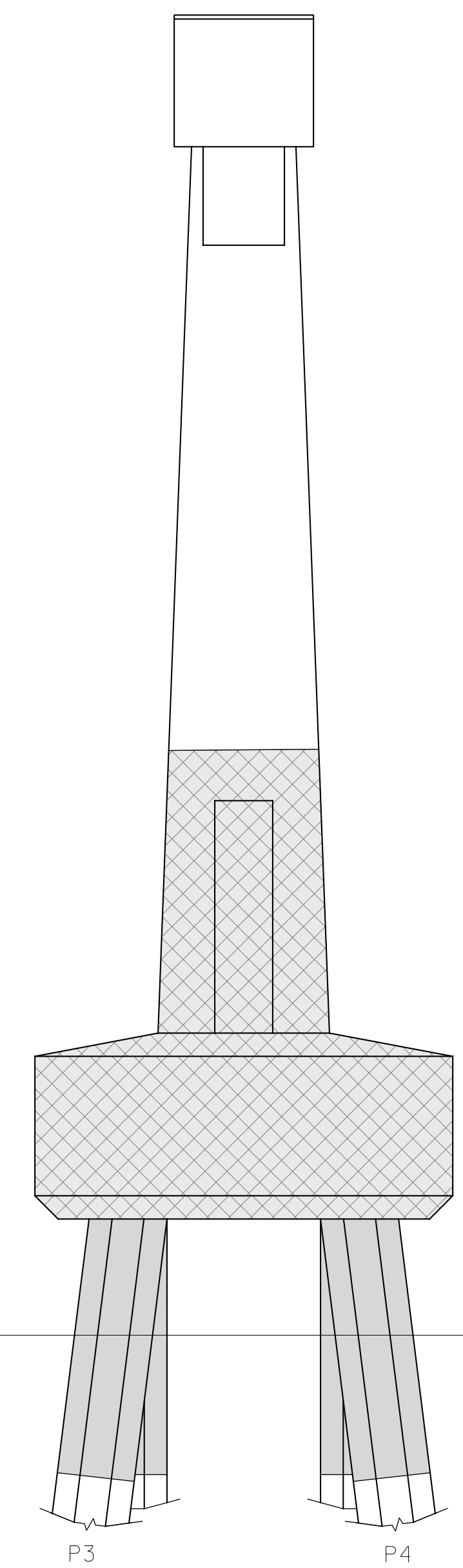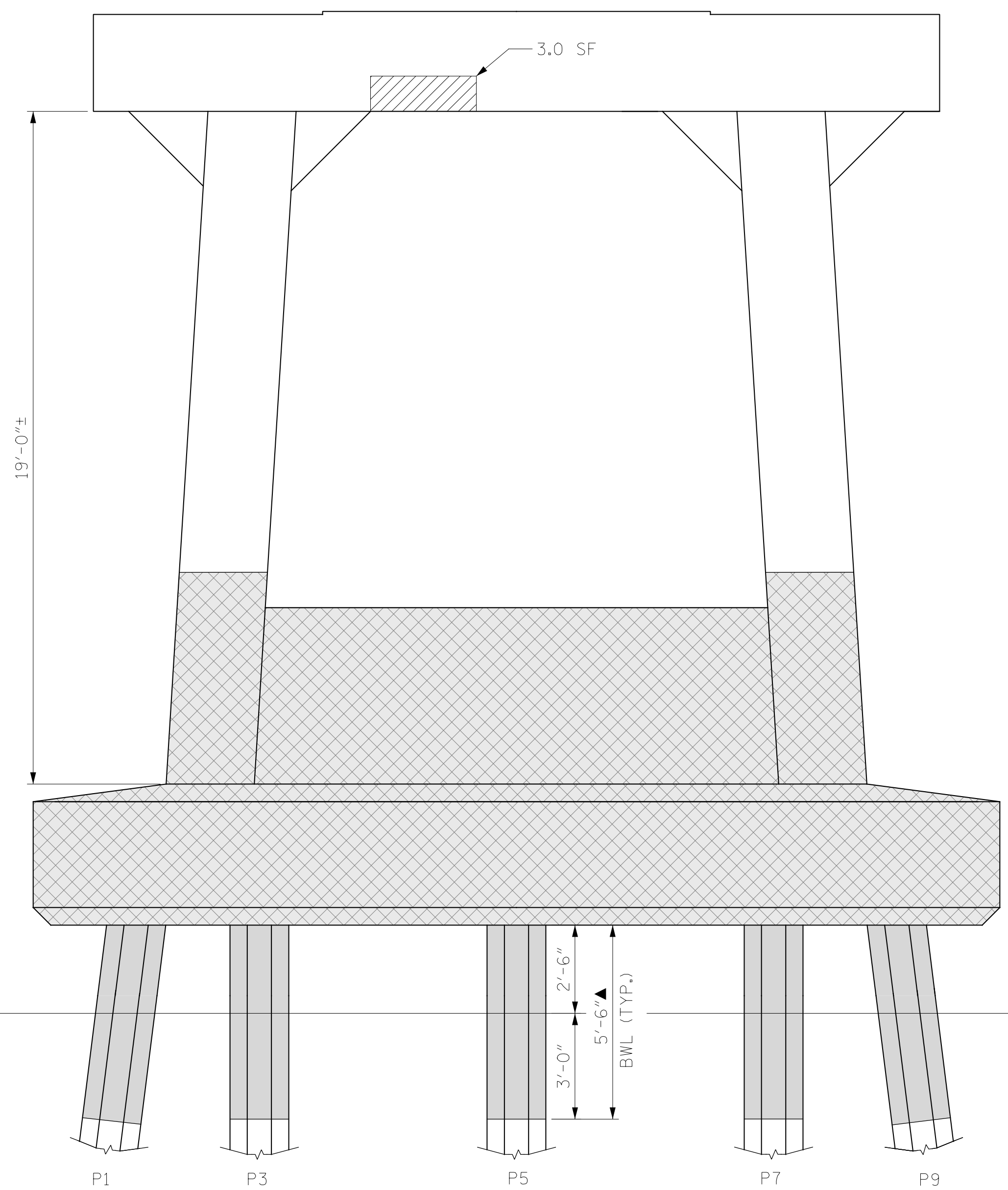
ERI – EPOXY RESIN INJECTION

▨ – FRP PROTECTIVE SYSTEM

▨ – SHOTCRETE REPAIRS

▨ – PILE FOOTING RESTORATION

▲ FRP PROTECTIVE SYSTEM BELOW
WATERLINE MAY INCLUDE
APPROVED UNDERWATER MORTAR
REPAIRS

3.0 SF

19'-0"±

2'-6"
3'-0"
5'-6" ▲
BWL (TYP.)

P1   P3   P5   P7   P9

ELEVATION
WEST FACE

BENT 149
(AWL = ABOVE WATERLINE)
(BWL = BELOW WATERLINE)

INTERIOR VIEW
SOUTH FACE COL.1

P3   P4

END VIEW
SOUTH FACE COL.2

P9   P10

APPROX.
NORMAL
WATER
SURFACE

PROJECT NO. ___HB-0017___

___DARE___ COUNTY

BRIDGE NO. ___270009___

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BENT 149
WEST FACE

DRAWN BY : ___T. HARTLEY___ DATE : _2/2019_
CHECKED BY : ___J. FARNHAM___ DATE : _5/2019_

GANNETT FLEMING
One Glenwood Avenue
Suite 900
Raleigh, NC 27603
(919) 420-7660
NC Lic. No. F-0270

DocuSigned by:
Eric B. Nelson Jr 7/14/2022
ACB8082119D74CD...

NORTH CAROLINA
PROFESSIONAL
ENGINEER
SEAL
020208
ERIC B. NELSON JR.

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-235
1			3			TOTAL SHEETS
2			4			355