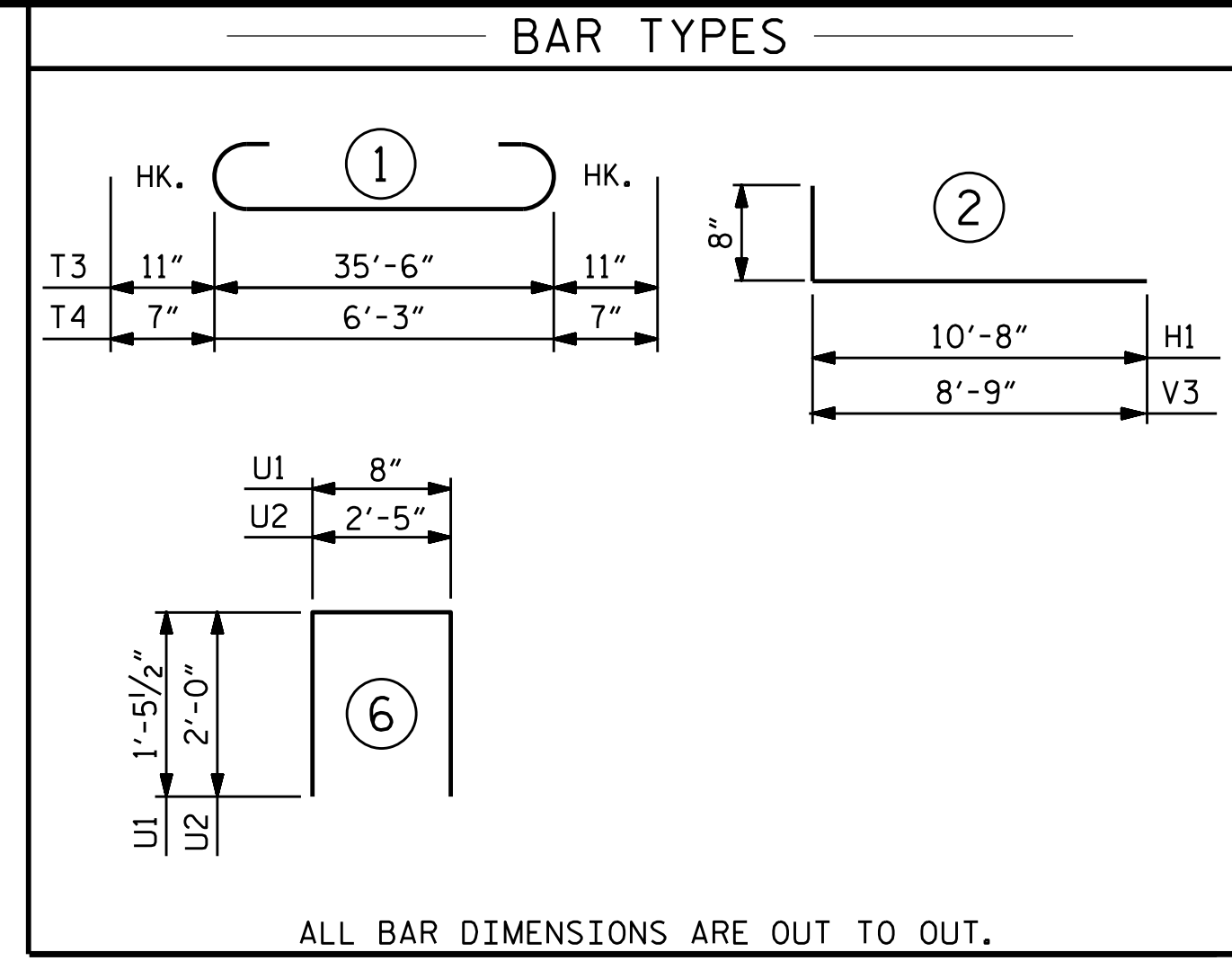
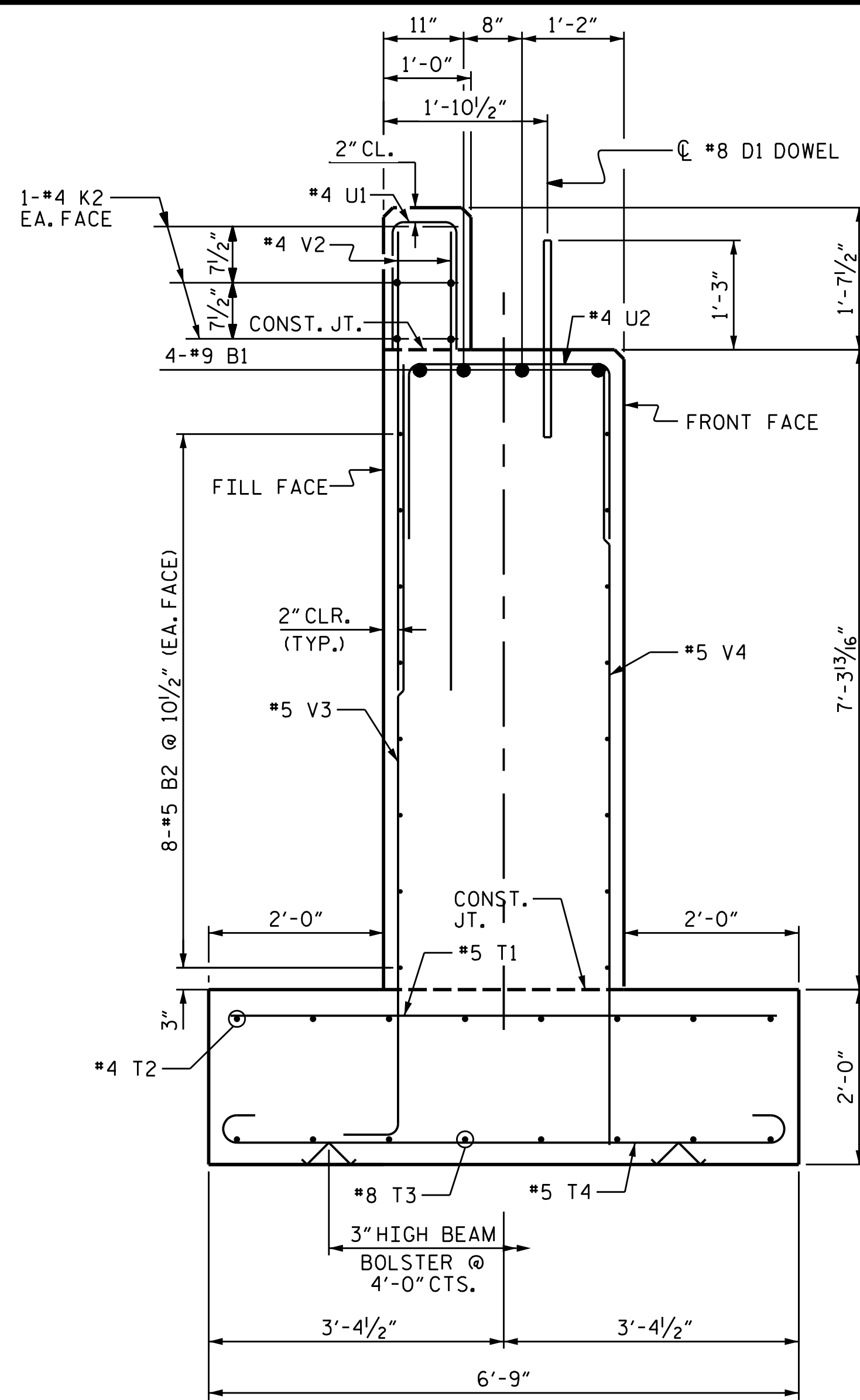
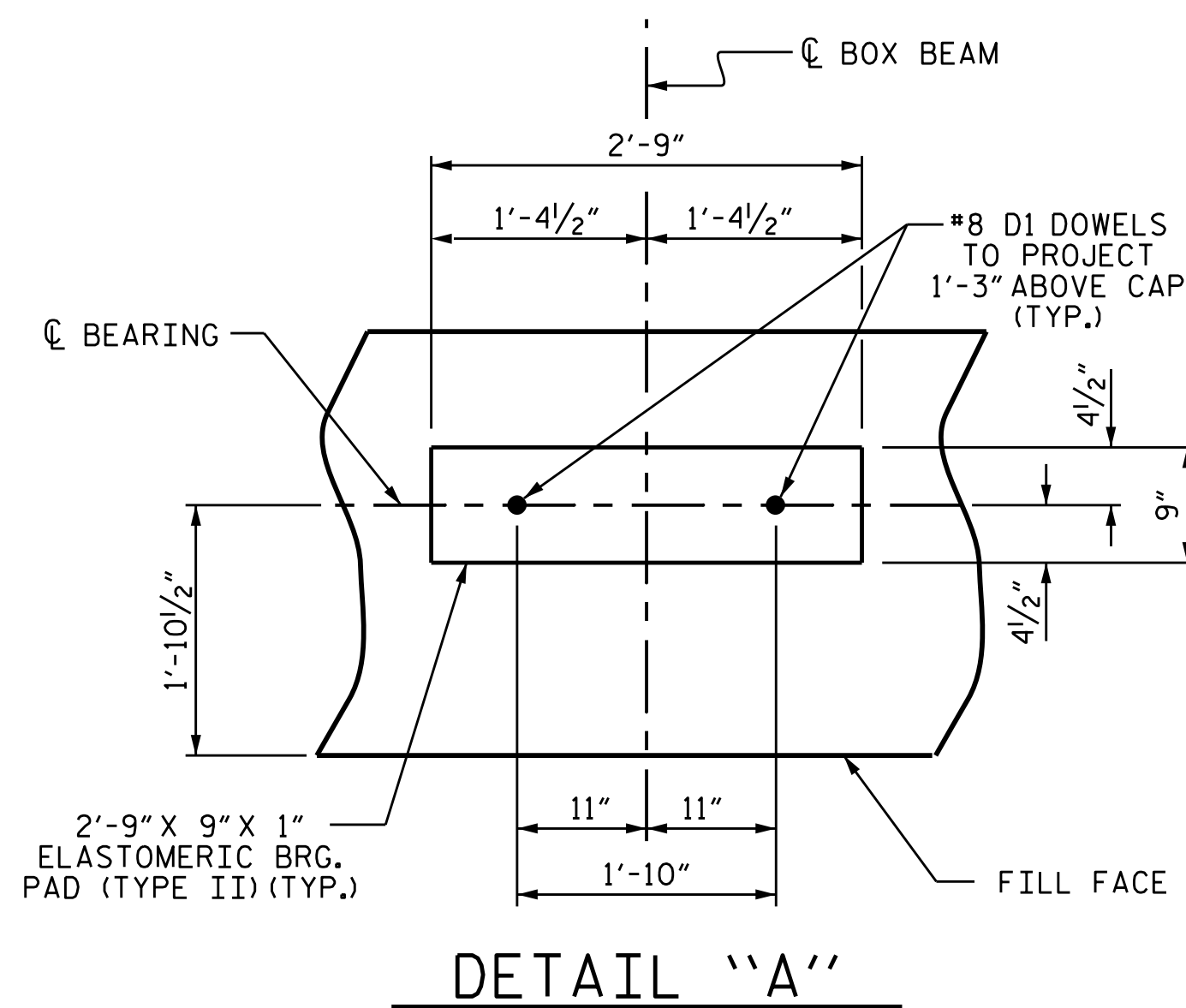


BAGGED STONE AND PIPE SHALL BE PLACED IMMEDIATELY AFTER COMPLETION OF END BENT EXCAVATION. PIPE MAY BE EITHER CONCRETE, CORRUGATED STEEL, CORRUGATED ALUMINUM ALLOY, OR CORRUGATED PLASTIC. PERFORATED PIPE WILL NOT BE ALLOWED.

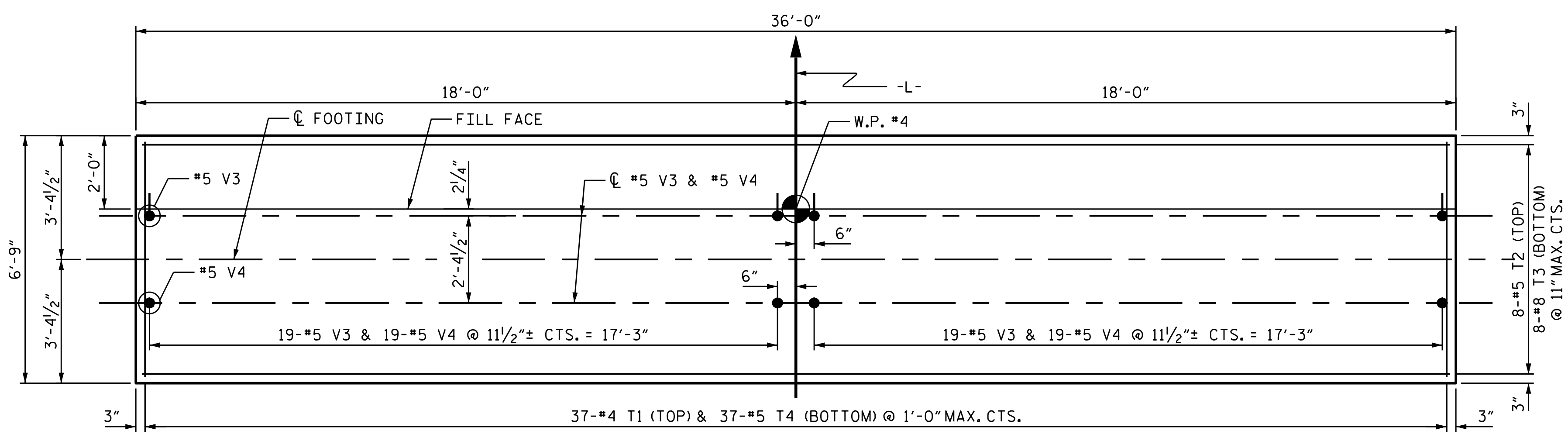
BAGGED STONE SHALL REMAIN IN PLACE UNTIL THE ENGINEER DIRECTS THAT IT BE REMOVED. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF SILT ACCUMULATIONS AT BAGGED STONE WHEN SO DIRECTED BY THE ENGINEER. BAGS SHALL BE REMOVED AND REPLACED WHENEVER THE ENGINEER DETERMINES THAT THEY HAVE DETERIORATED AND LOST THEIR EFFECTIVENESS.

NO SEPARATE PAYMENT WILL BE MADE FOR THIS WORK AND THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

TEMPORARY DRAINAGE AT END BENT



BILL OF MATERIAL FOR END BENT 2					
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	4	#9	STR	35'-6"	483
B2	16	#5	STR	35'-6"	592
D1	20	#8	STR	2'-3"	120
H1	84	#5	2	11'-4"	993
K1	12	#4	STR	2'-11"	23
K2	12	#4	STR	19'-1"	153
T1	37	#4	STR	6'-3"	154
T2	8	#5	STR	35'-6"	296
T3	8	#8	1	37'-4"	797
T4	37	#5	1	7'-5"	286
U1	30	#4	6	3'-7"	72
U2	38	#4	6	6'-5"	163
V1	60	#5	STR	10'-5"	652
V2	60	#4	STR	5'-3"	210
V3	38	#5	2	9'-5"	373
V4	38	#5	STR	8'-9"	347
REINFORCING STEEL (FOR END BENT 2)					5714 LBS.
CLASS A CONCRETE BREAKDOWN (FOR END BENT 2)					
POUR #1 FOOTING					18.0 C.Y.
POUR #2 STEM & LOWER PART OF WINGS					26.8 C.Y.
POUR #3 BACKWALL & UPPER PART OF WINGS					5.2 C.Y.
TOTAL CLASS A CONCRETE					50.0 C.Y.
FOUNDATION EXCAVATION					LUMP SUM



PLAN OF FOOTING

(END BENT No. 2)

DRAWN BY : J.M. KEPICH DATE : 02/16
 CHECKED BY : L.M. SAMPLES DATE : 04/16
 DESIGN ENGINEER OF RECORD : L.M. SAMPLES DATE : 05/16

ms consultants, inc.
 920 Main Campus Drive
 Suite 430
 Raleigh, NC 27606
 NC License Number : C-3239

DocuSigned by:
 Lisa M. Samples
 5663D099A9B449C.
 10/14/2016

NORTH CAROLINA PROFESSIONAL ENGINEER
 SEAL 037031
 LISA M. SAMPLES

PROJECT NO. B-5398
 BURKE COUNTY
 STATION: 16+45.00 -L-
 SHEET 3 OF 3

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 SUBSTRUCTURE
 END BENT No. 2

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SHEET NO. S-22				
TOTAL SHEETS 24				