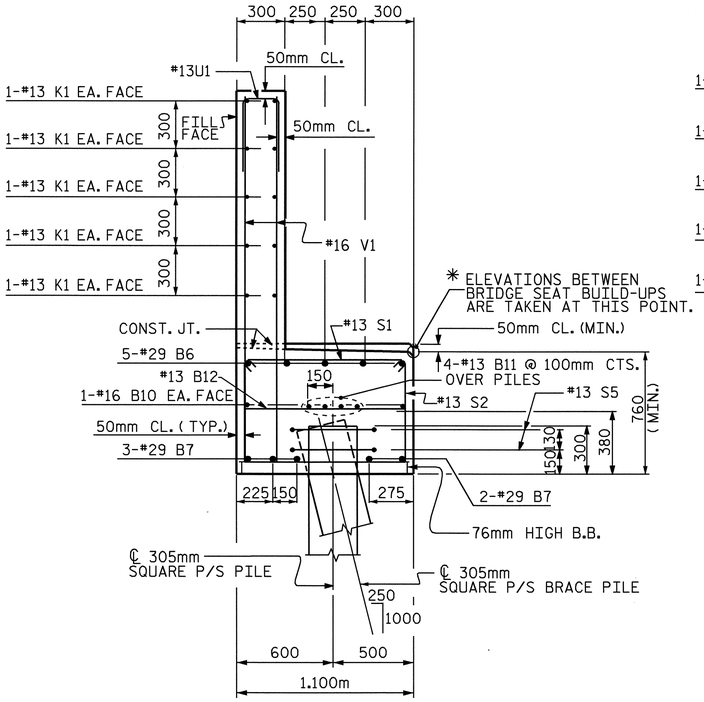
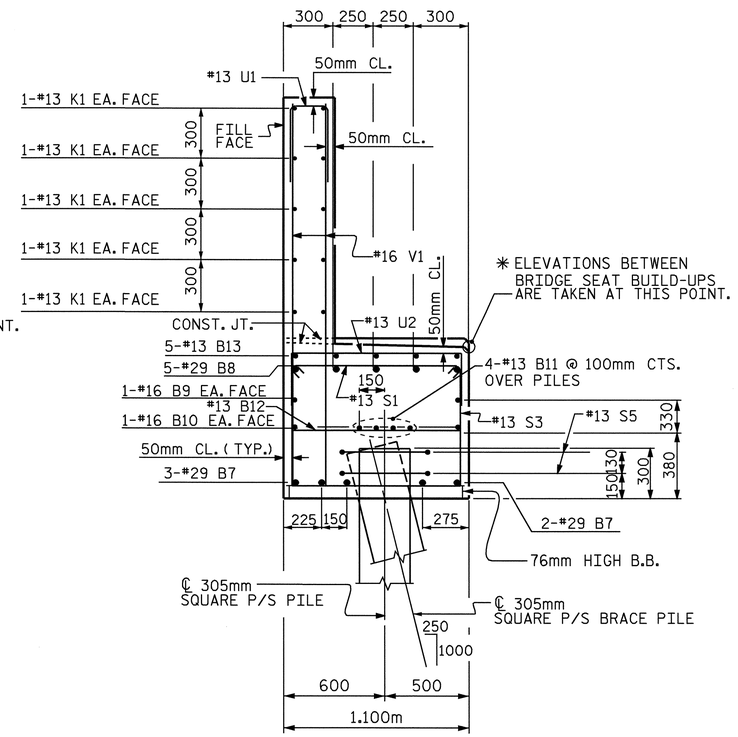
w:\SquadM\r-0513c\str3\srashidl\Microstation\r-513c03ebts.dgn
srashidl

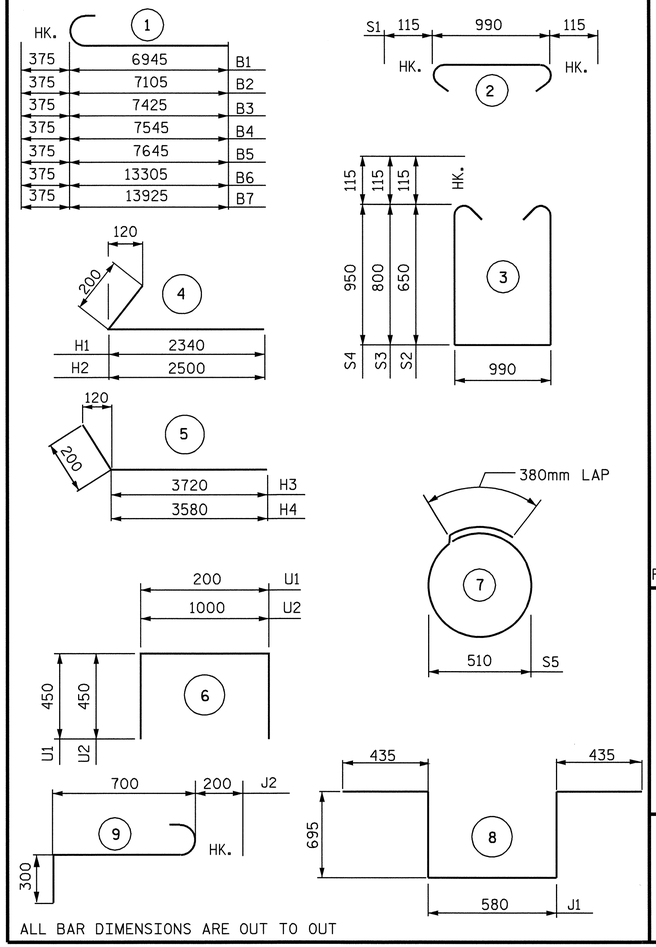


SECTION A-A



SECTION B-B

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

END BENT 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	1	29	1	7320	37
B2	1	29	1	7480	38
B3	1	29	1	7800	39
B4	1	29	1	7920	40
B5	1	29	1	8020	41
B6	5	29	1	13680	346
B7	10	29	1	14300	724
B8	5	29	STR	11040	279
B9	2	16	STR	14380	45
B10	4	16	STR	13440	83
B11	16	13	STR	7060	112
B12	26	13	STR	1000	26
B13	15	13	STR	1100	16
H1	10	16	4	2540	39
H2	10	16	4	2700	42
H3	11	16	5	3920	67
H4	11	16	5	3780	65
J1	1	19	8	2840	6
J2	3	19	9	1200	8
K1	40	13	STR	7060	281
K2	8	13	STR	1080	9
S1	84	13	2	1220	102
S2	33	13	3	2520	83
S3	28	13	3	2820	78
S4	23	13	3	3120	71
S5	30	13	7	2000	60
U1	79	13	6	1100	86
U2	9	13	6	1900	17
V1	158	16	STR	2220	544
V2	24	16	STR	2600	97
V3	32	16	STR	3000	149

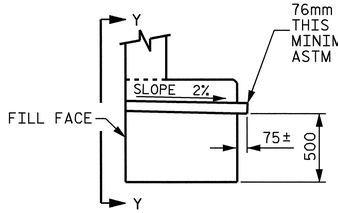
REINFORCING STEEL kg 3630

CLASS A CONCRETE BREAKDOWN

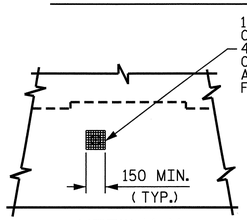
POUR 1 (CAP AND LOWER PORTION OF WINGS)	m^3	29.8
POUR 2 (BACKWALL AND UPPER PORTION OF WINGS)	m^3	17.0
TOTAL	m^3	46.8

305mm SQUARE PRESTRESSED CONCRETE PILES

NO. 16 METERS 288.0



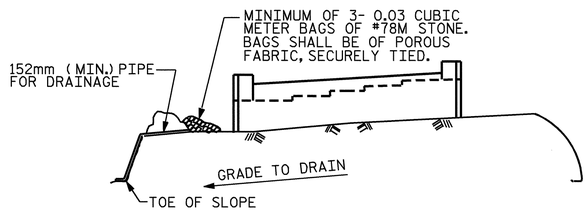
SECTION THRU CAP



VIEW Y-Y

NOTE: NO SEPARATE PAYMENT WILL BE MADE FOR FURNISHING AND INSTALLING THE PVC PIPE DRAINS, HARDWARE CLOTH AND FASTENERS. THE ENTIRE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT CONTRACT PRICE BID FOR THE SEVERAL PAY ITEMS.

PIPE DRAIN DETAILS



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

PROJECT NO. R-513C

ROBESON COUNTY

STATION: 277+68.339 -L-

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

END BENT 1

NORTH CAROLINA PROFESSIONAL SEAL 11259 ENGINEER DAVID R. ANDERSON
3/22/04

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-153
1			3			TOTAL SHEETS
2			4			312

DRAWN BY : S. M. RASHIDI DATE : 9/28/01
CHECKED BY : K. P. SEDAI DATE : 8/09/02

STR. #3