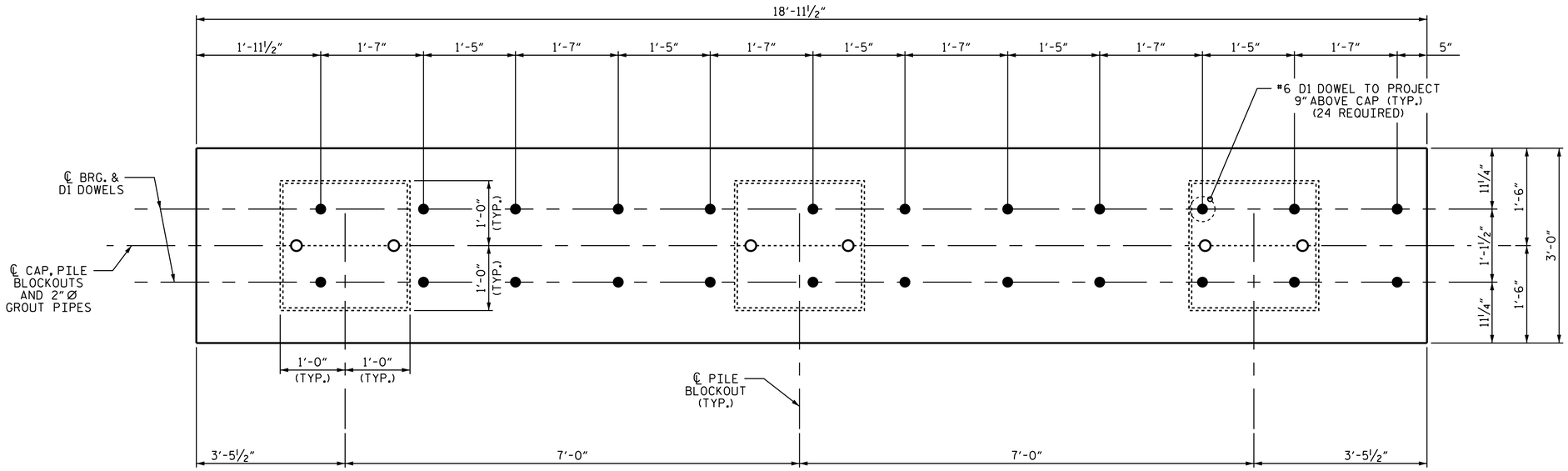
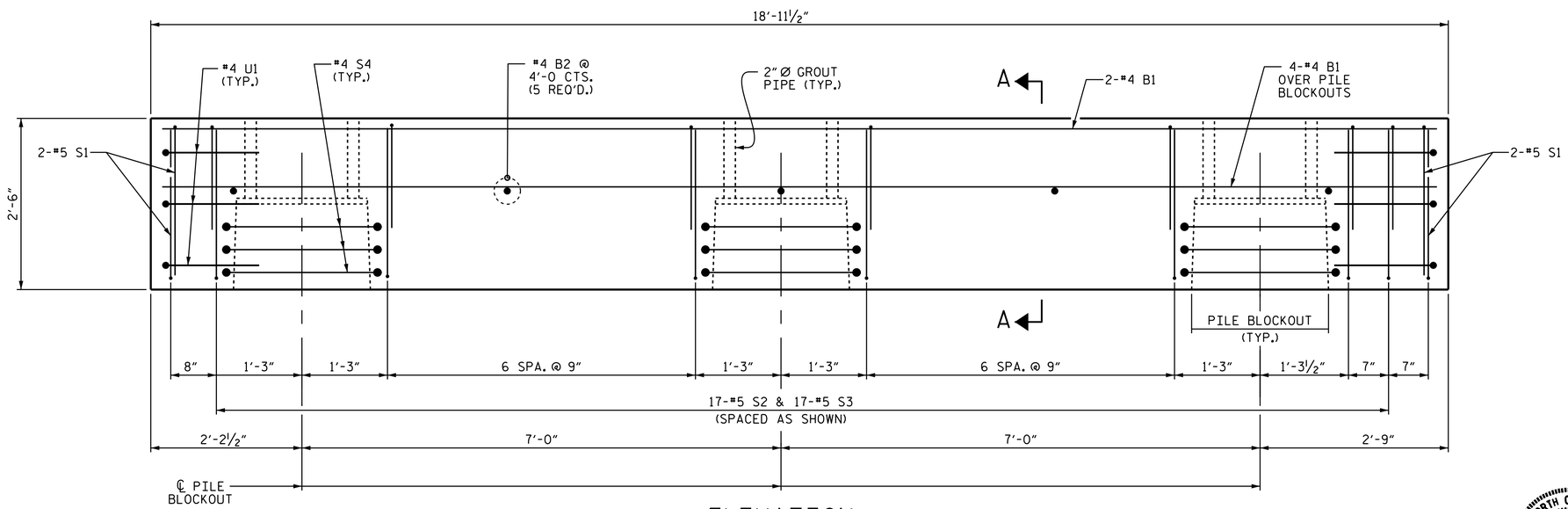


PLAN

(FOR PILE BLOCKOUT DETAILS, SEE SHEET 4 OF 4)



ELEVATION

(#6 D1 DOWELS NOT SHOWN FOR CLARITY)
FOR SECTION A-A, SEE SHEET 5 OF 5.

BILL OF MATERIAL
FOR ONE PIECE B-01

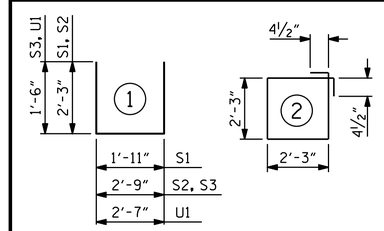
BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#4	STR	18'-7"	74
B2	5	#4	STR	2'-8"	9
D1	24	#6	STR	1'-6"	54
S1	8	#5	1	6'-5"	54
S2	17	#5	1	7'-3"	129
S3	17	#5	1	5'-9"	102
S4	9	#4	2	9'-9"	59
U1	6	#4	1	5'-7"	22

REINFORCING STEEL 503 LBS

4000 PSI PRESTRESSED CONCRETE 4.7 C.Y.
PILE BLOCKOUT GROUT ▲ 0.4 C.Y.

0.6"Ø L.R. STRANDS No. 12

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT.

▲ GROUT DISPLACED BY THE 16" PRESTRESSED CONCRETE PILES HAS BEEN DEDUCTED FROM THE GROUT QUANTITY.

GRADE 270 STRANDS	
	0.6"Ø L.R.
AREA (SQUARE INCHES)	0.217
ULTIMATE STRENGTH (LBS. PER STRAND)	58,600
APPLIED PRESTRESS (LBS. PER STRAND)	43,950

PROJECT NO. B-5124
NASH COUNTY
STATION: 36+88.50 -L-

SHEET 3 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE
PRESTRESSED PIECE B-01
ALTERNATE 1

NORTH CAROLINA PROFESSIONAL SEAL 025516 ENGINEER EMILY E. MURRAY
3/9/2015
DocuSigned by: Emily Murray
CAEB97AEDC5B4E0...

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-39C
1			3			TOTAL SHEETS
2			4			71

DRAWN BY : M. A. ALLEN DATE : 3/15
CHECKED BY : E. E. MURRAY DATE : 3/15

09-MAR-2015 07:55
R:\Structures\FinalPlans\DocuSign Setup\402_005_B-5124_SMU_S2-0.dgn
nruffin

STR. #2