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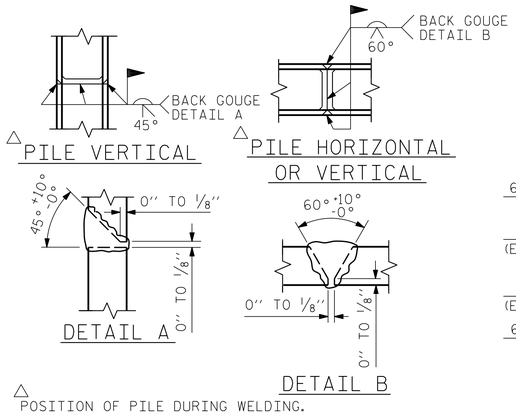
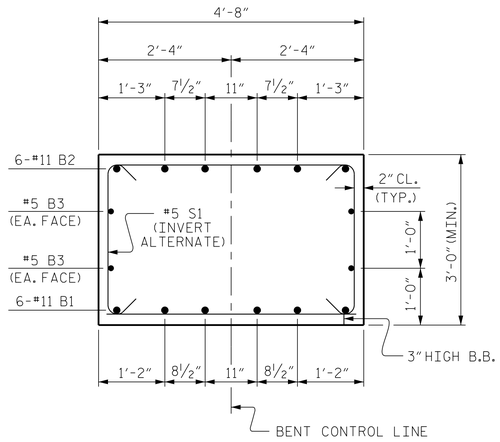
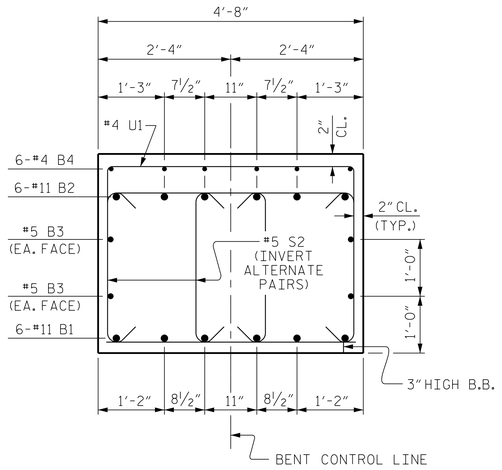


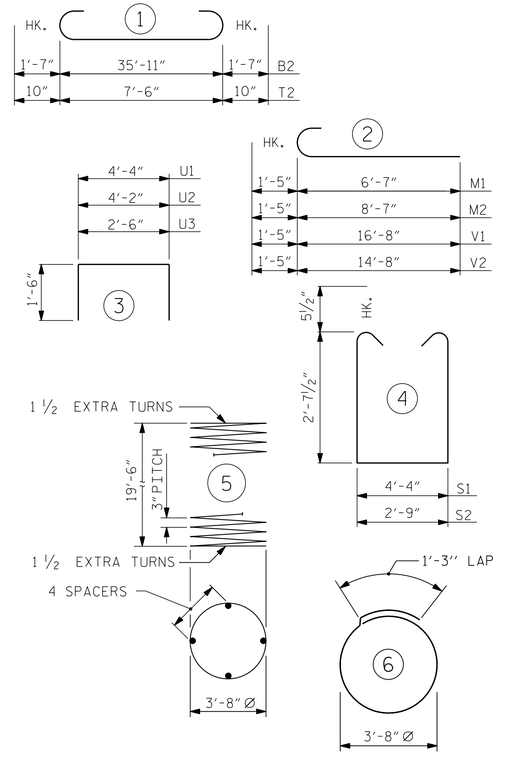
PILE SPLICE DETAILS



SECTION A-A



SECTION B-B



ALL BAR DIMENSIONS ARE OUT TO OUT.

BAR TYPES

BILL OF MATERIAL

BENT No. 1

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	6	#11	STR	36'-1"	1,150
B2	6	#11	1	39'-1"	1,246
B3	4	#5	STR	36'-1"	151
B4	6	#4	STR	15'-8"	63
M1	24	#10	2	8'-0"	826
M2	24	#10	2	10'-0"	1,033
S1	30	#5	4	10'-6"	329
S2	36	#5	4	8'-11"	335
S3	33	#5	6	12'-10"	442
T1	60	#6	STR	7'-6"	676
T2	108	#7	1	9'-2"	2,024
U1	43	#4	3	7'-4"	211
U2	6	#4	3	7'-2"	29
U3	10	#4	3	5'-6"	37
V1	24	#10	2	18'-1"	1,868
V2	24	#10	2	16'-1"	1,661

REINFORCING STEEL 12,081 LBS.

SP-1	3	**	5	920'-1"	2,879

SPIRAL COLUMN REINFORCING STEEL 2,879 LBS.

CLASS A CONCRETE BREAKDOWN

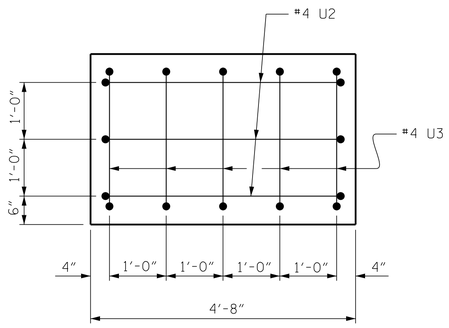
POUR #1 FOOTINGS	23.1 C.Y.
POUR #2 COLUMNS	26.9 C.Y.
POUR #3 CAP	19.8 C.Y.
TOTAL CLASS A CONCRETE	69.8 C.Y.

HP 12 X 53 STEEL PILES
NO: 27 LIN. FT.= 1,755

FOUNDATION EXCAVATION LUMP SUM

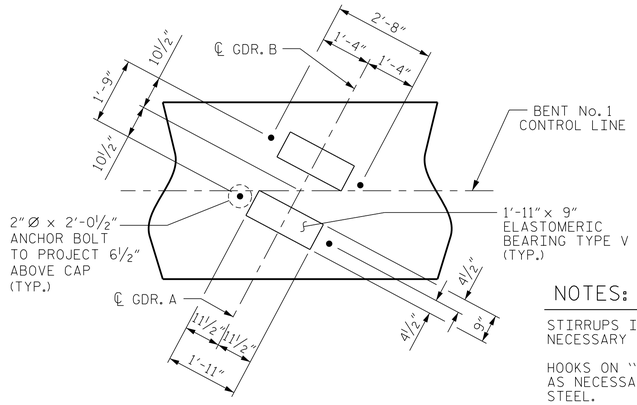
PILE DRIVING EQUIPMENT SETUP FOR HP 12 X 53 STEEL PILES 27 EA.

** THE SP-1 SPIRAL REINFORCING STEEL SHALL BE W31 OR D-31 COLD DRAWN WIRE OR #5 PLAIN OR DEFORMED BAR.



END OF CAP VIEW

(TYP. EA. END)



DETAIL ''A''

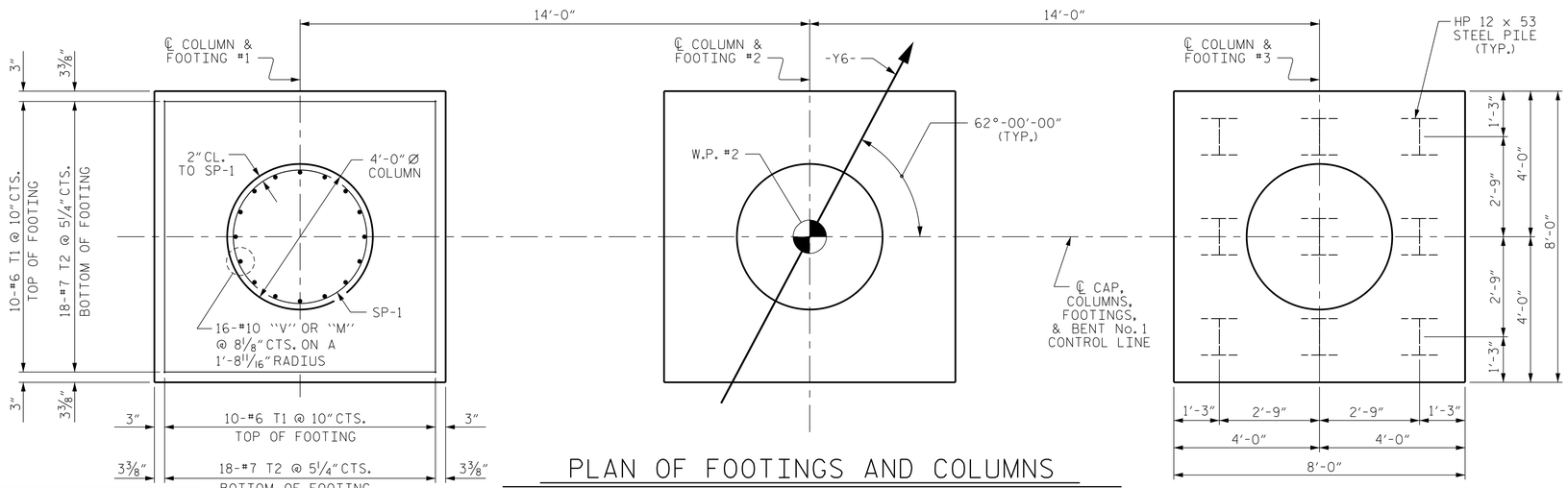
(TYP. EACH GIRDER)

NOTES:

STIRRUPS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR ANCHOR BOLTS.

HOOKS ON ''V'' BARS MAY BE TURNED AS NECESSARY FOR PLACING REINFORCING STEEL.

LONGITUDINAL COLUMN REINFORCING STEEL SHALL BE SPLICED USING MECHANICAL BUTT SPLICES. NO LAP SPLICES ALLOWED. MECHANICAL BUTT SPLICES SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND SUBMITTED FOR APPROVAL. ADJACENT SPLICES SHALL BE STAGGERED AT 2'-0". NO EXTRA PAYMENT WILL BE MADE FOR USING MECHANICAL BUTT SPLICES OR MODIFYING BAR LENGTHS. THE COST WILL BE INCIDENTAL TO REINFORCING STEEL.



PLAN OF FOOTINGS AND COLUMNS

PILE PLACEMENT, REINFORCING STEEL, DIMENSIONS AND DETAILS ARE TYPICAL FOR EACH FOOTING AND COLUMN.

PROJECT NO. I-5987B
ROBESON COUNTY
STATION: 30+28.11 -Y6-

SHEET 2 OF 2

ENGINEER OF RECORD
3/24/2022
NORTH CAROLINA PROFESSIONAL SEAL 37400 ENGINEER GREGORY M. GILLAND
Docusigned by: Gregory M. Gilland

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 8107
LICENSE NO. F-0377

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

BENT No. 1

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S8-22
1			3			TOTAL SHEETS
2			4			28

DRAWN BY : D. HODGE DATE : 9/21
CHECKED BY : G. GILLAND DATE : 10/21

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

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