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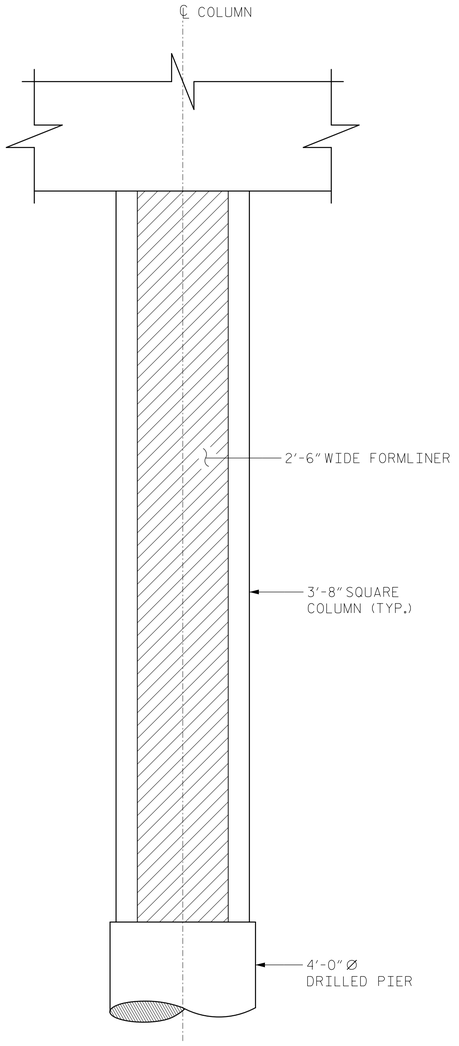


ELEVATION

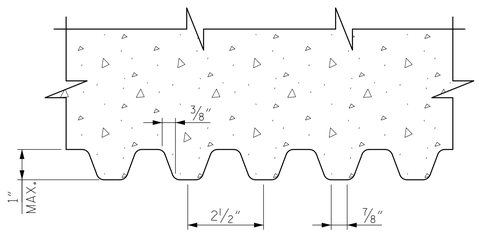
FORMLINER NOTES:

FOR ARCHITECHTURAL CONCRETE SURFACE TREATMENT, SEE SPECIAL PROVISIONS.

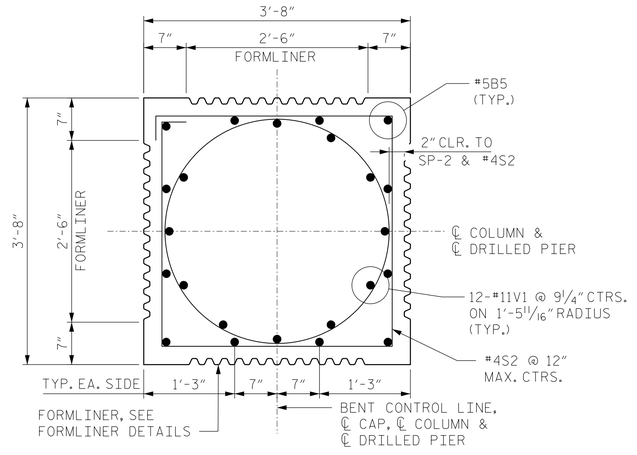
FORMLINER SHALL BE A 1" DEEP FRACTURED FIN CHEVRON PATTERN WITH FINS AT 2½" ON CENTER, ⅞" FINS, ⅞" VALLEY, AND ⅜" DRAFT.

FORMLINER PATTERN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

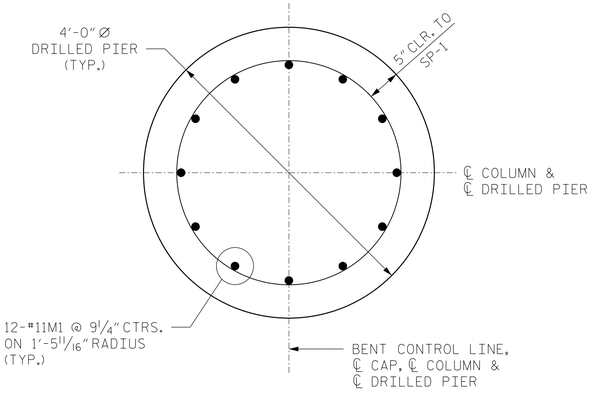
FORMWORK SHALL COMPLY WITH SECTION 420-3 OF THE STANDARD SPECIFICATIONS.



FORMLINER DETAIL

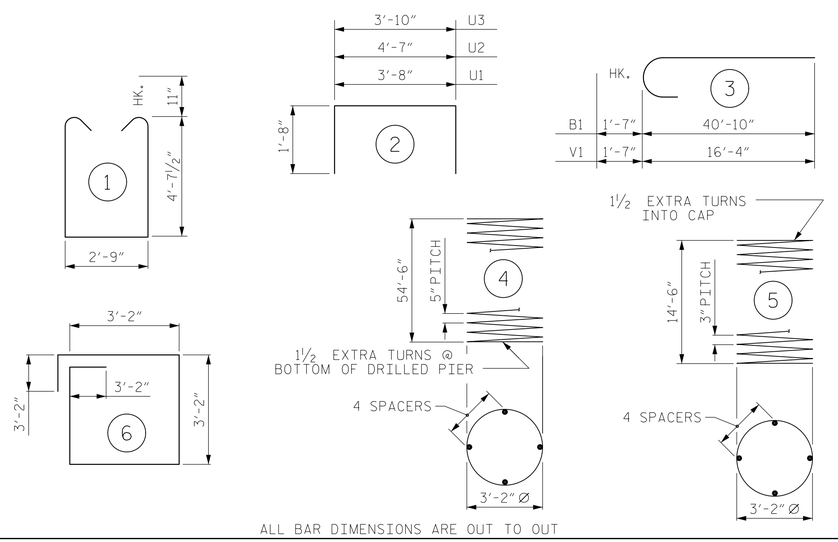


SECTION C-C



SECTION D-D

BAR TYPES



ALL BAR DIMENSIONS ARE OUT TO OUT

BILL OF MATERIAL

FOR ONE BENT

BAR	NO.	SIZE	TYPE	LENGTH	WEIGHT
B1	16	#11	3	42'-5"	3,606
B2	16	#11	STR	38'-11"	3,308
B3	16	#5	STR	35'-6"	592
B4	8	#5	STR	31'-5"	262
B5	48	#5	STR	13'-11"	697
M1	96	#11	STR	36'-6"	18,617
S1	182	#6	1	13'-10"	3,782
S2	60	#4	6	13'-4"	534
U1	10	#4	2	7'-0"	47
U2	8	#4	2	7'-11"	42
U3	73	#4	2	7'-2"	349
V1	48	#11	3	17'-11"	4,592

REINFORCING STEEL (FOR ONE BENT) 36,428 LBS.

SP-1	4	*	4	1317'-4"	5,496
SP-2	4	**	5	588'-10"	1,573

SPIRAL COLUMN REINFORCING STEEL (FOR ONE BENT) 7,069 LBS.

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

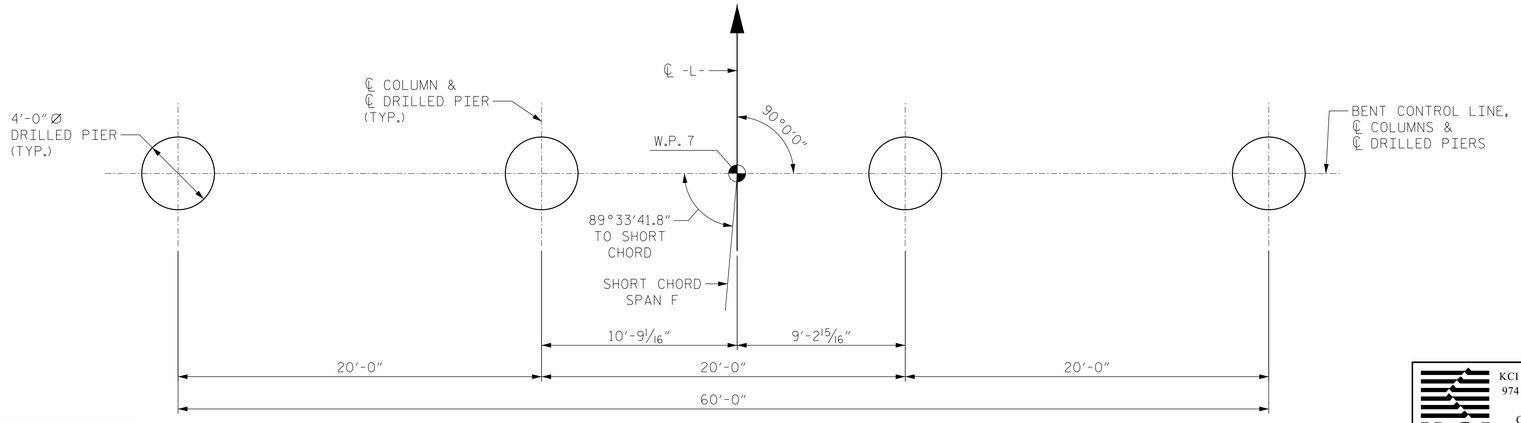
** THE SP-2 SPIRAL REINFORCING STEEL SHALL BE W20 OR D-20 COLD DRAWN WIRE OR #4 PLAIN OR DEFORMED BAR

CLASS A CONCRETE BREAKDOWN (FOR ONE BENT)

POUR #2 (COLUMNS)	28.4 C.Y.
POUR #3 (CAP)	55.6 C.Y.
TOTAL CLASS A CONCRETE	84.0 C.Y.

DRILLED PIERS: (FOR ONE BENT)

DRILLED PIER CONCRETE	
POUR #1 (DRILLED PIERS)	102.4 C.Y.
4'-0" Ø DRILLED PIER NOT IN SOIL	89 LIN. FT.
4'-0" Ø DRILLED PIER IN SOIL	131 LIN. FT.
CSL TUBES	904 LIN. FT.



PLAN OF DRILLED PIERS

PROJECT NO. U-5008

MECKLENBURG COUNTY

STATION: 20+45.05 -L- P.O.T. = 14+54.24 -Y4- P.O.T.

SHEET 3 OF 3

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

BENT 6 DETAILS

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-72
1			3			SHEETS
2			4			78

DRAWN BY : D.L.KEENER DATE : OCT. 2014
CHECKED BY : J.C.MEDLIN DATE : OCT. 2014

KCI ASSOCIATES OF NC, P.A.
9741 SOUTHERN PINE BLVD
SUITE J
CHARLOTTE, NC 28273
704-499-9452
NC LICENSE No. C-0764

NORTH CAROLINA PROFESSIONAL SEAL 032954 ENGINEER JARED C. MEDLIN
DocuSigned by: Jared C. Medlin 2/19/2015

2/18/2015 Y:\Drawings\2011 DWGS\B11-11 Sugar Creek Rd - NCDOT\Structures\RFC\SH72_U-5008_SD_B6-03.dgn DJD