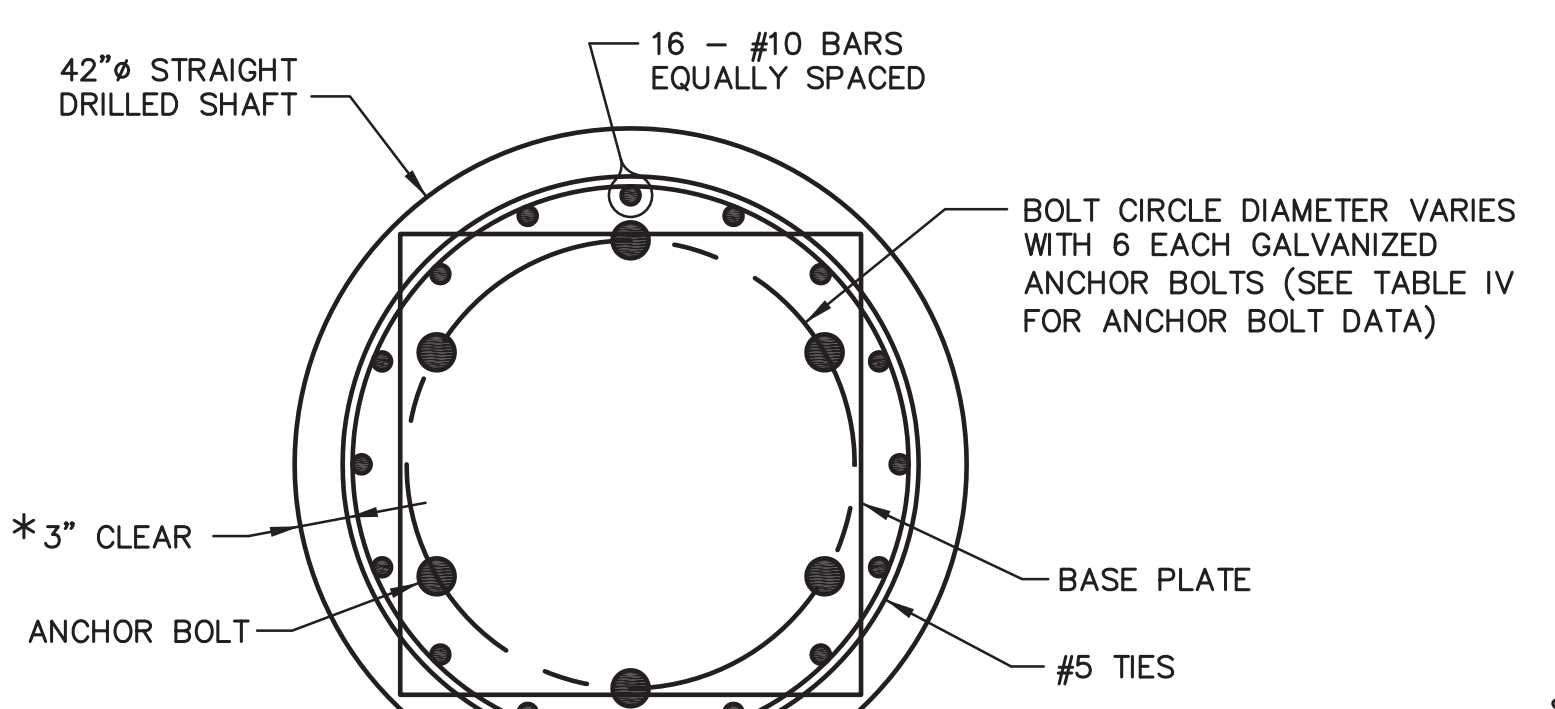
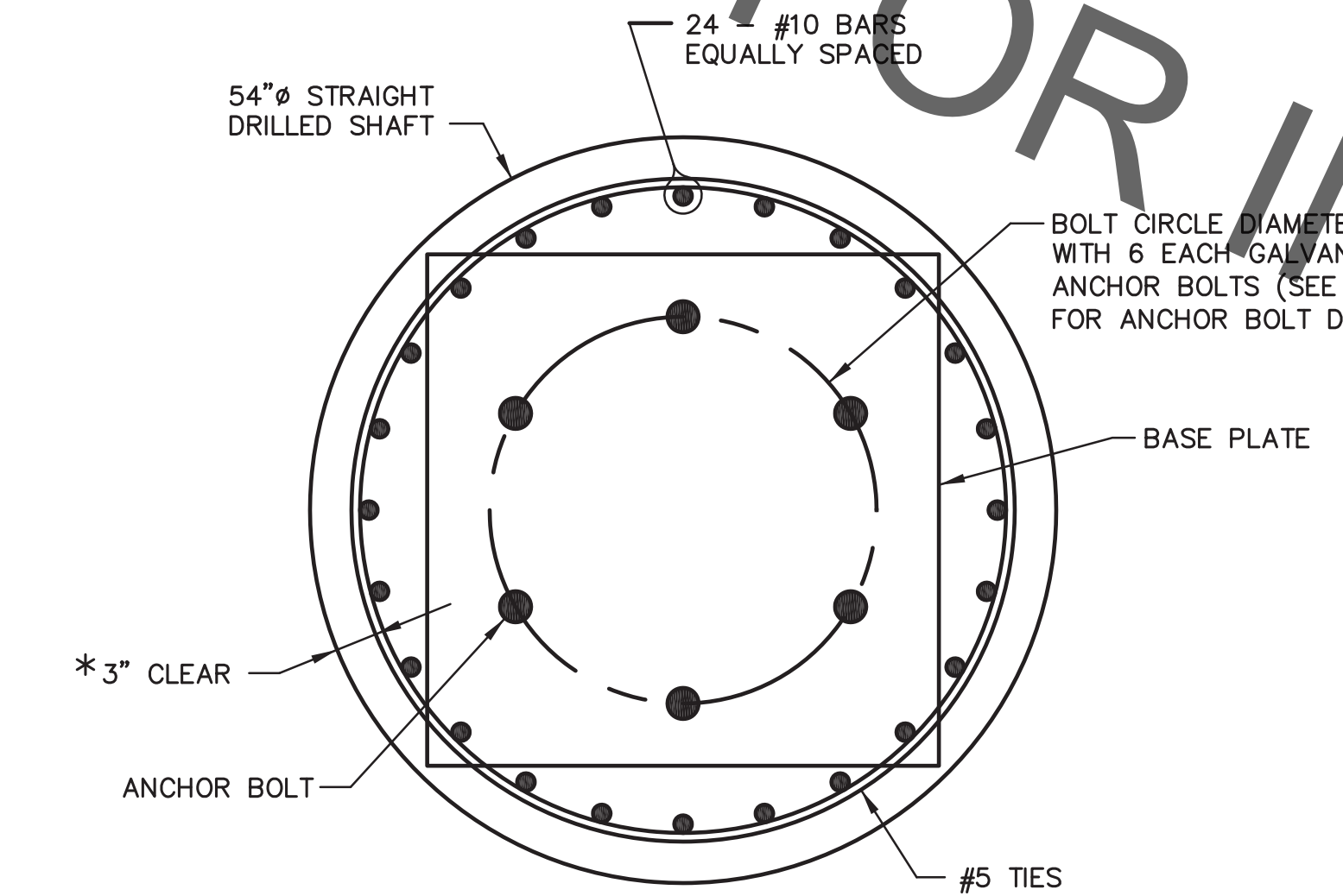


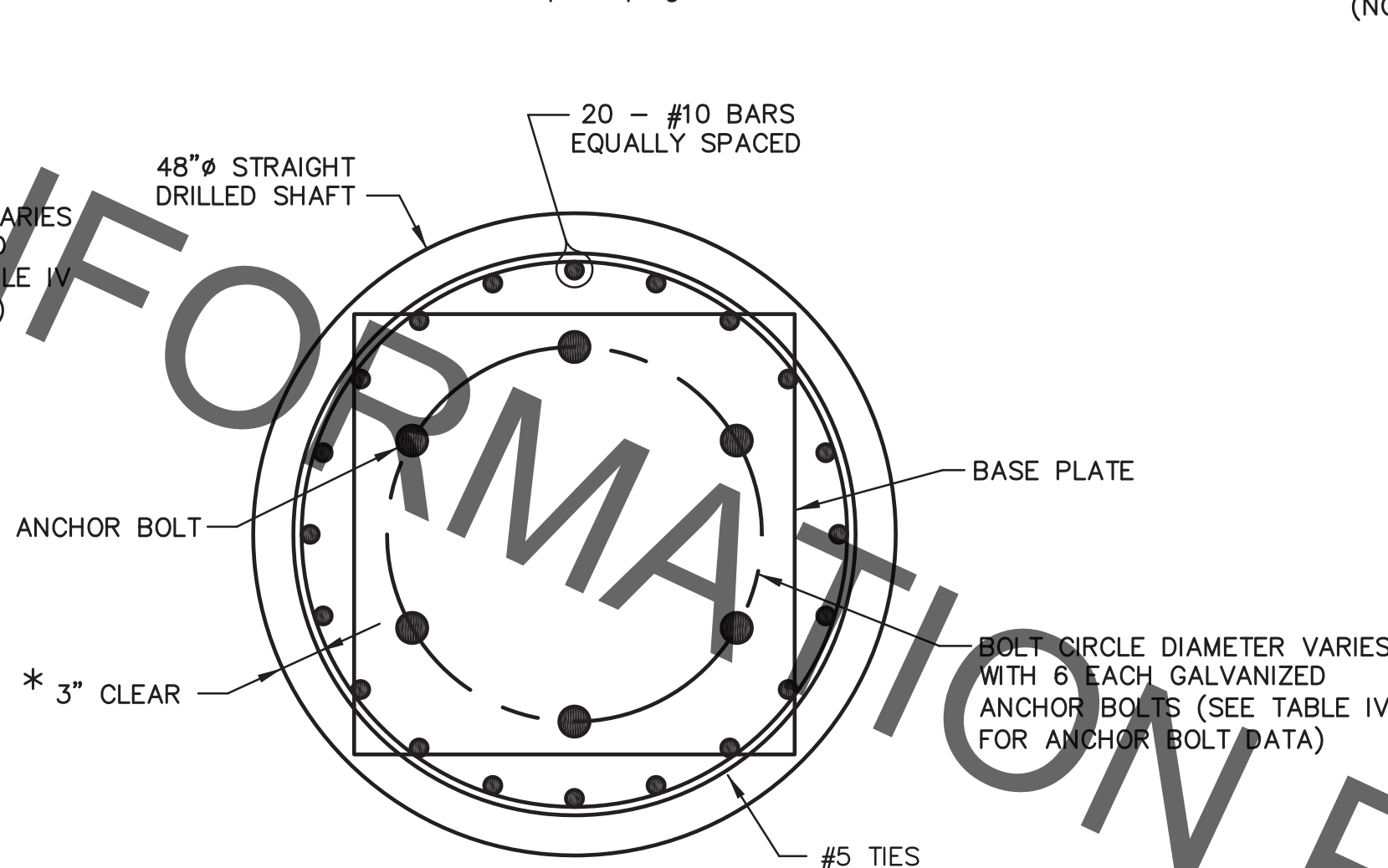
SECTION "A-A"
36" DRILLED SHAFT
1" = 1'-0"



SECTION "A-A"
42" DRILLED SHAFT
1" = 1'-0"

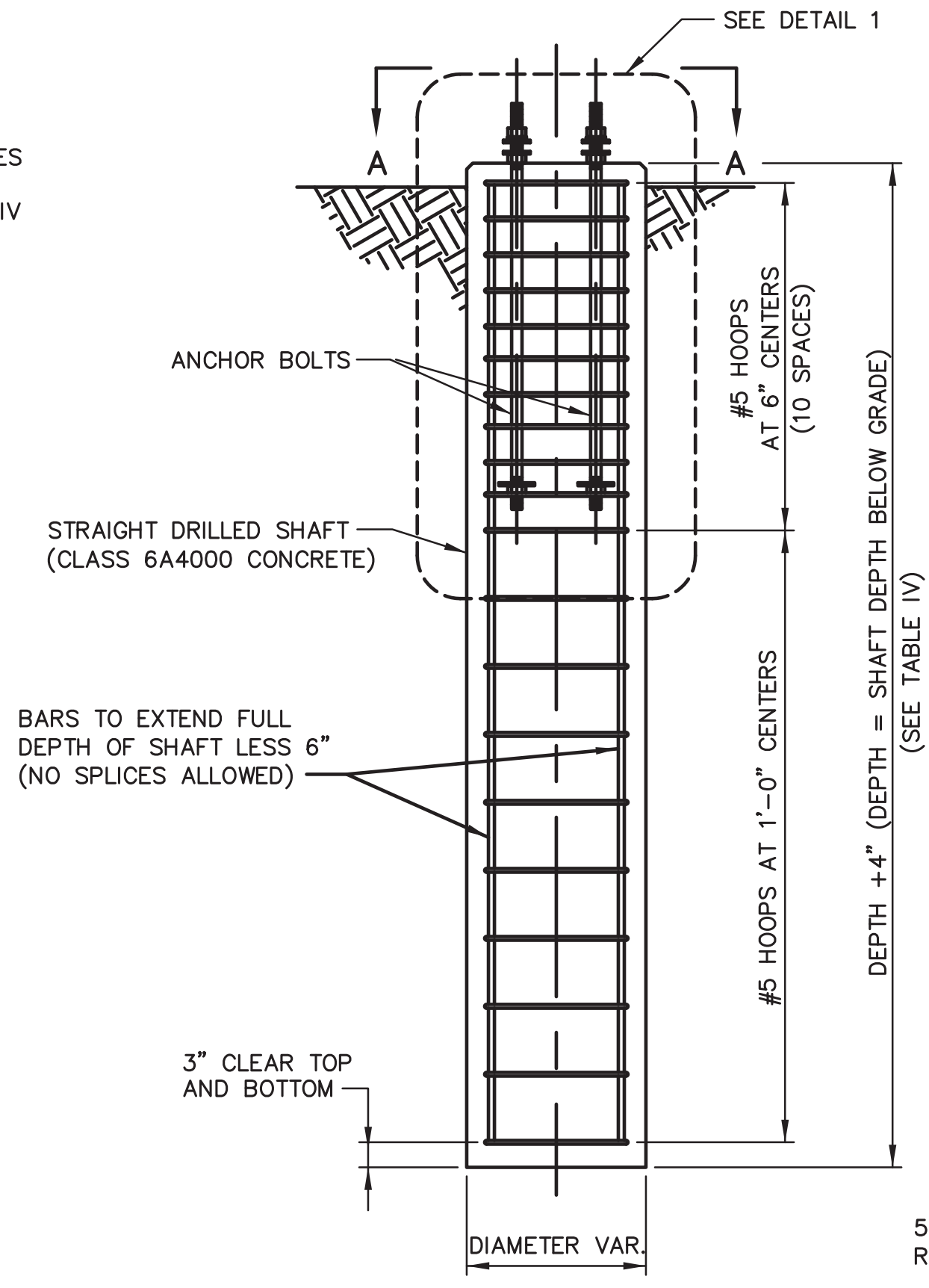


SECTION "A-A"
54" DRILLED SHAFT
1" = 1'-0"



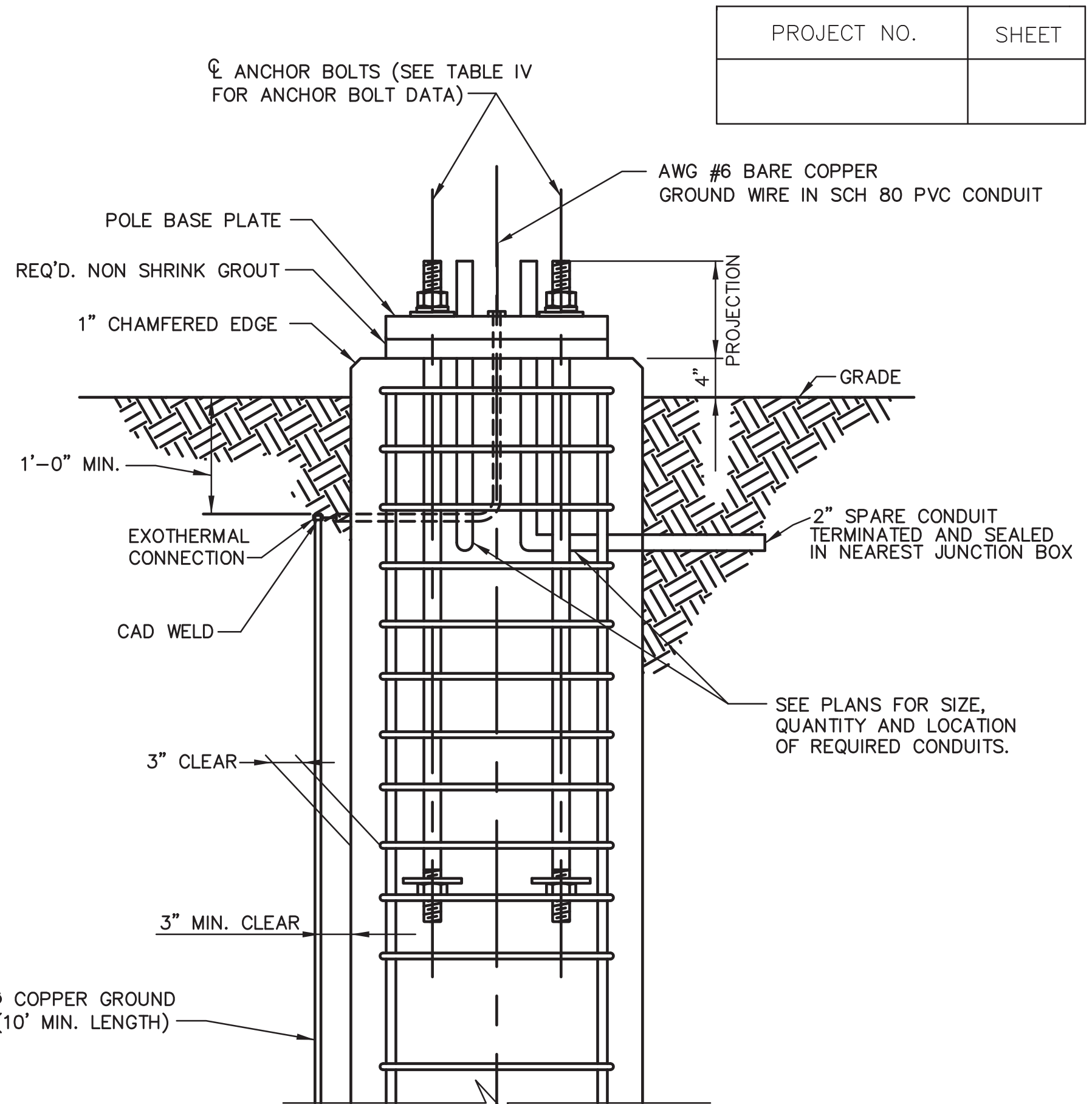
SECTION "A-A"
48" DRILLED SHAFT
1" = 1'-0"

* CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING A STANDOFF SYSTEM TO ENSURE THAT CLEARANCE AROUND REINFORCING STEEL CAGE IS MAINTAINED AT ALL TIMES. SYSTEM MUST BE APPROVED BY THE ENGINEER PRIOR TO DRILLING OF SHAFT.

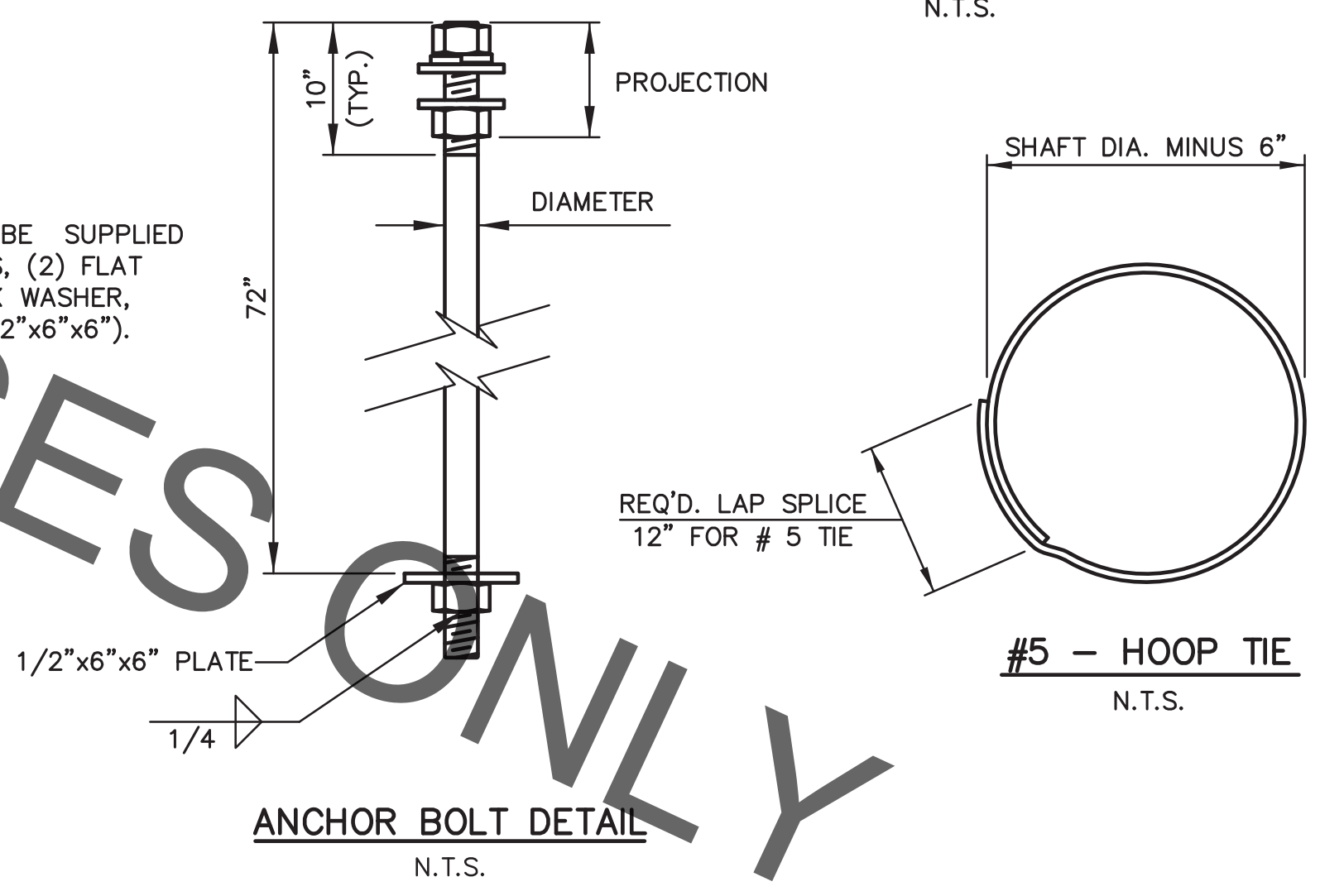


ELEVATION OF DRILLED SHAFT FOUNDATION
N.T.S.

NOTE: COMPLETE REINFORCEMENT NOT SHOWN FOR CLARITY



DETAIL 1
N.T.S.



ANCHOR BOLT DETAIL
N.T.S.

TABLE III - REQUIRED FOUNDATION DESIGN GROUPS FOR SPAN WIRE COMBINATIONS

SECONDARY SPAN LENGTH (ft.)	PRIMARY SPAN LENGTH (ft.)										
		75	85	95	105	115	125	135	145	155	165
		A	B	B	C	C	D	D	E	E	F
75		A	B	B	C	C	D	D	E	E	F
85			B	C	C	D	D	E	E	F	F
95				C	D	D	E	E	F	F	G
105					D	E	E	F	F	G	G
115						E	F	F	G	G	H
125							F	G	G	H	H
135								G	H	H	I
145									H	I	I
155										I	J
165											J

TABLE III NOTES:

- ENTER THE TABLE USING THE PRIMARY AND SECONDARY SPAN LENGTHS WHICH ARE EQUAL TO OR GREATER THAN THE REQUIRED SPAN LENGTHS.
- DETERMINE THE REQUIRED FOUNDATION DESIGN GROUP.
- SEE TABLE IV FOR REQUIRED ANCHOR BOLTS AND DRILLED SHAFT DIAMETER AND DEPTH.

TABLE IV - DRILLED SHAFT AND ANCHOR BOLT SIZE (STRAIN POLE FOUNDATIONS)

FOUNDATION DESIGN GROUP	MAXIMUM DESIGN MOMENT AT BASE OF POLE (FOOT-KIPS)	MINIMUM REQUIRED DEFLECTION RATE OF POLE 25' ABOVE BASE (INCHES/100 lbs.)	BOLT CIRCLE DIAMETER (INCHES)	BOLT DIAMETER (INCHES)	MINIMUM PROJECTION (INCHES)	AREA 1		AREA 2		AREA 3		AREA 4	
						SHAFT DIAMETER (INCHES)	SHAFT DEPTH (FEET)	SHAFT DIAMETER (INCHES)	SHAFT DEPTH (FEET)	SHAFT DIAMETER (INCHES)	SHAFT DEPTH (FEET)	SHAFT DIAMETER (INCHES)	SHAFT DEPTH (FEET)
A	155.00	0.050	24	1.75	7	42	20	36	18	36	17	36	17
B	165.00	0.050	24	1.75	7	42	20	36	19	36	17	36	17
C	175.00	0.050	24	1.75	7	48	20	36	19	36	17	36	18
D	185.00	0.050	24	2.00	8	48	20	36	19	42	17	36	18
E	195.00	0.050	24	2.00	8	54	20	36	19	42	17	36	18
F	205.00	0.030	28	2.00	8	54	20	42	19	42	18	42	17
G	215.00	0.030	28	2.00	8	SPECIAL DESIGN REQUIRED		42	19	42	18	42	18
H	225.00	0.030	28	2.00	8	SPECIAL DESIGN REQUIRED		42	19	42	18	42	18
I	235.00	0.030	28	2.00	8	SPECIAL DESIGN REQUIRED		48	18	42	18	42	18
J	245.00	0.030	28	2.00	8	SPECIAL DESIGN REQUIRED		48	18	48	18	48	18

TABLE IV NOTES:

- SEE SHEET 1 OF 4 FOR LOCATION AND DESCRIPTION OF SOIL PROFILE AREAS.
- SITE SPECIFIC SOIL BORINGS AND FOUNDATION DESIGN ARE REQUIRED FOR THE DRILLED SHAFTS INDICATED AS "SPECIAL DESIGN REQUIRED".
- SOILS IN AREAS 3 AND 4 ARE VARIABLE AND ONLY LIMITED DATA IS AVAILABLE. CIRCLES IN AREAS 3 AND 4 ON SHEET 1 OF 4 DENOTE AREAS IN WHICH SHALLOW SANDS ARE KNOWN. A SITE SPECIFIC SPT BORING OR CPT SOUNDING SHOULD BE MADE IN AREAS 3 AND 4 TO DETERMINE IF SHALLOW SANDS WILL BE ENCOUNTERED, IN WHICH CASE, SITE SPECIFIC DESIGN OF FOUNDATIONS WILL BE REQUIRED.

THOMAS A. STEPHENS
Professional Engineer
2/16/2013

STANDARD PLAN NO. 906-04	DATED DECEMBER 3, 2008	SHEET NO. 4 OF 4
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SIGNAL POLE FOUNDATION DETAILS (STRAIN POLES)

ENGINEERING DIVISION DEPARTMENT OF PUBLIC WORKS CITY OF BATON ROUGE & PARISH OF EAST BATON ROUGE			
DESIGNED H. THOM	DRAWN D.F. HEBERT	CHECKED H. THOM	APPROVED T. STEPHENS

DATE	DESCRIPTION	BY
	REVISIONS	