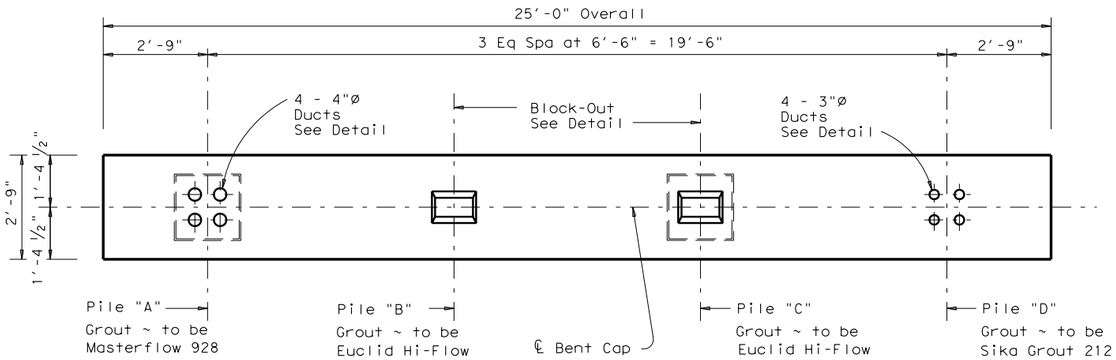
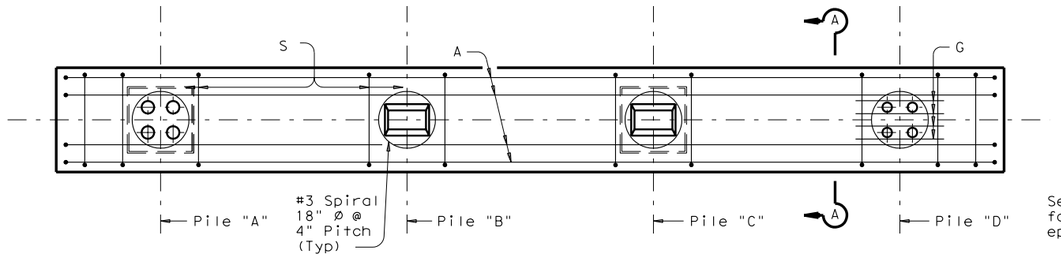
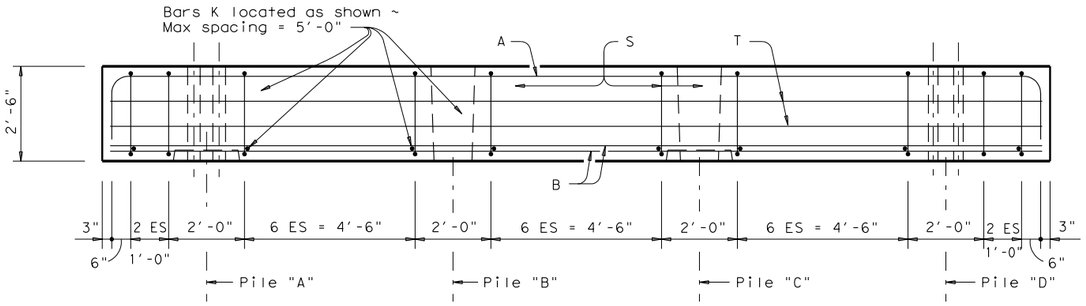


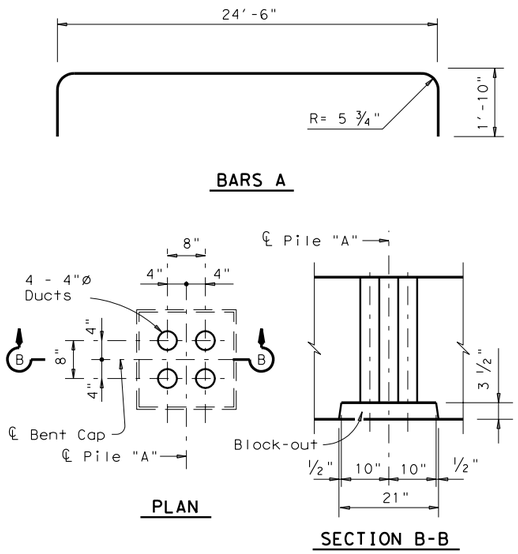
PLAN



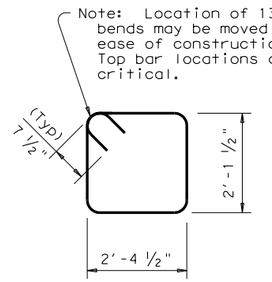
REINFORCING PLAN



ELEVATION



BARS A

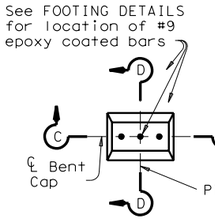


BARS S

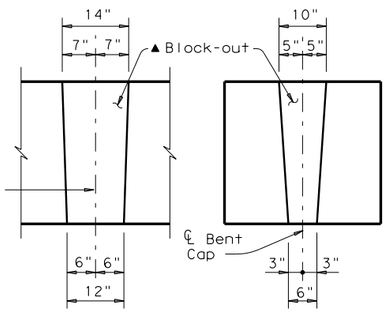
PLAN

SECTION B-B

PILE "A" DETAIL



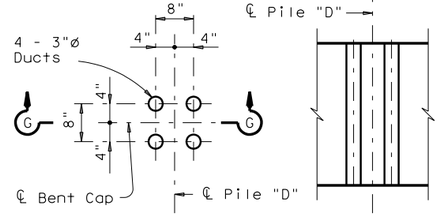
PLAN



SECTION C-C

SECTION D-D

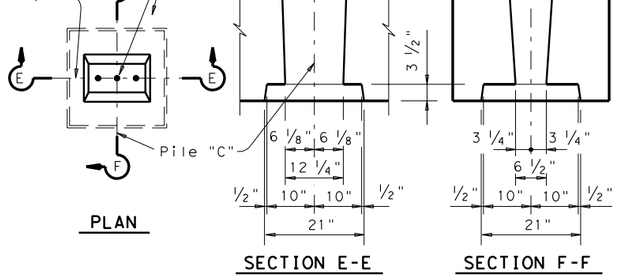
PILE "B" DETAIL



PLAN

SECTION G-G

PILE "D" DETAIL



PLAN

SECTION E-E

SECTION F-F

PILE "C" DETAIL

GENERAL NOTES:

Special Loading for Bridge Research.

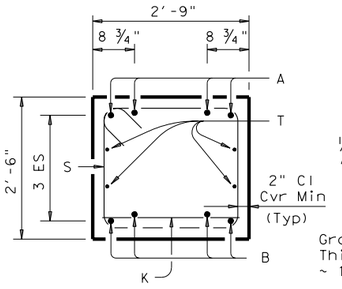
Steel Plate shall be A36.

Threaded rod shall meet the requirements of alloy steel anchor bolts in accordance with the Item "Anchor Bolts" and ASTM 193 B7 or ASTM A687.

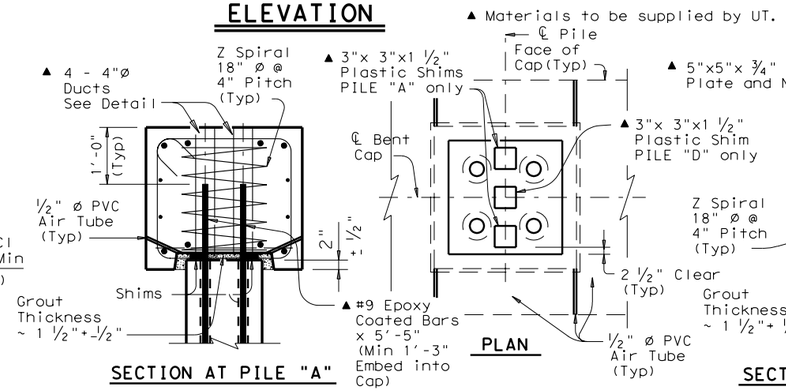
All ducts shall be rigid metal ducts and shall meet the requirements of the Item "Prestressing", subsection 426.3(4)(a), "Post-tensioning Tendons, Grouted" for rigid metal ducts.

TABLE OF ESTIMATED QUANTITIES

Bar	No.	Size	Length	Weight
A	4	#11	28'- 2"	599
B	4	#11	24'- 8"	524
G	4	# 3	2'- 4"	4
K	8	# 4	2'- 5"	13
S	27	# 6	10'- 3"	416
T	4	# 5	24'- 8"	101
Z	4	# 3	66'- 4"	100
Reinforcing Steel			Lb	1,757
Class "C" Concrete			CY	6.3

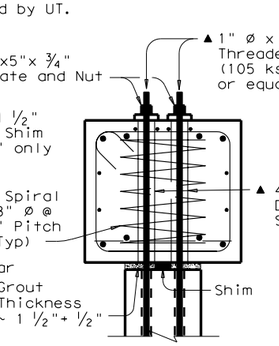


SECTION A-A



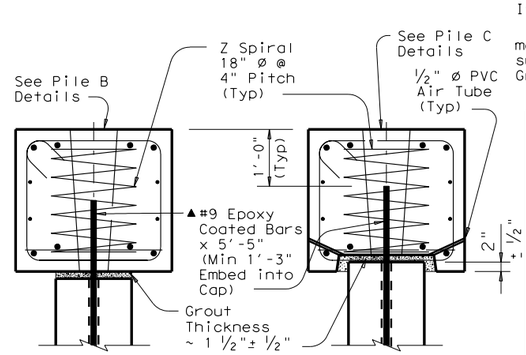
SECTION AT PILE "A"

PLAN



SECTION AT PILE "D"

SHIM DETAILS FOR PILES A & D



SECTION AT PILE "B"

SECTION AT PILE "C"

DETAILS FOR PILES B & C

SHEET 1 OF 2

Texas Department of Transportation
Design Division (Bridge)

PRECAST BENT CAP SQUARE PILE (COLUMN)

FILE: research.dgn	DN: EM	CK: CAT	DW: LW	CK: TxDOT
©TxDOT	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY	CONTROL	SECT	JOB	HIGHWAY

LEVELS DISPLAYED
1 2 4 5 6 7 8 9 10 11 12 13 14 15 16
17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32
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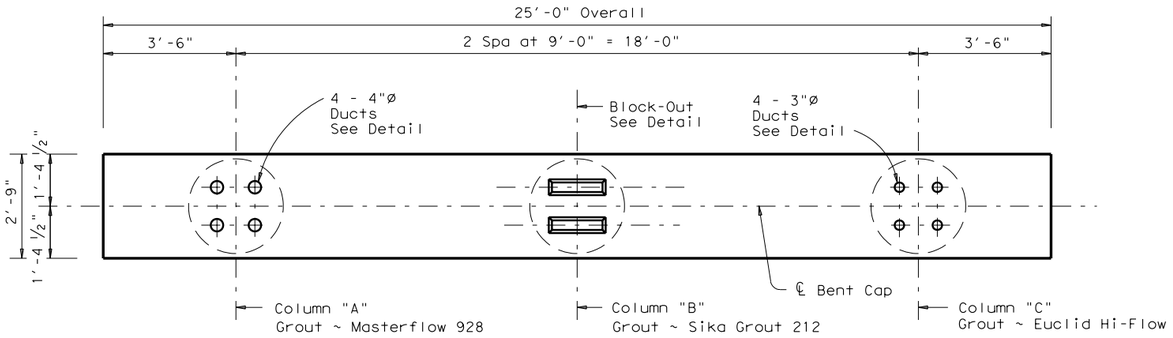
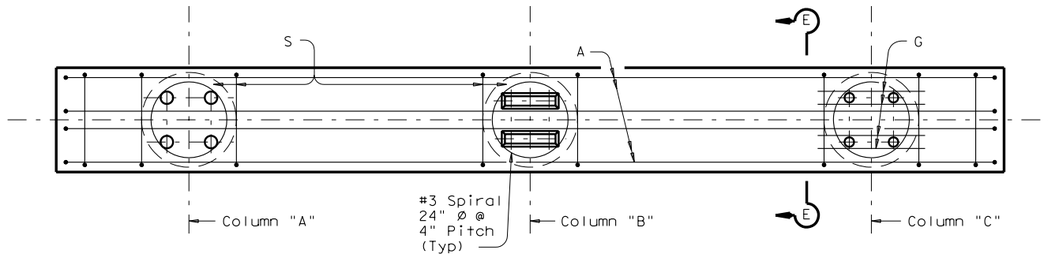


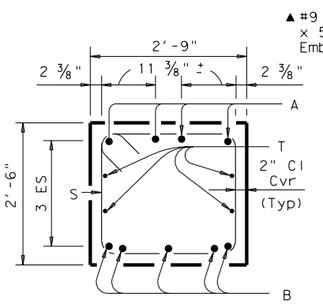
PLAN



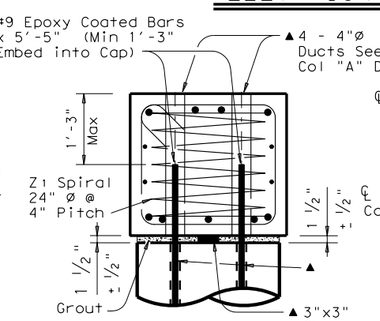
REINFORCING PLAN

▲ Materials to be supplied by UT.

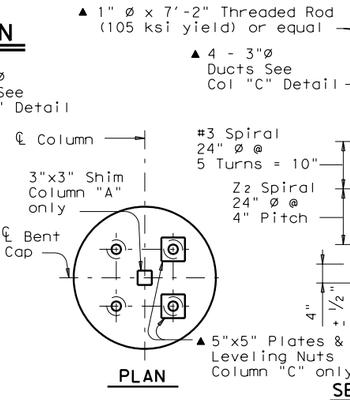
ELEVATION



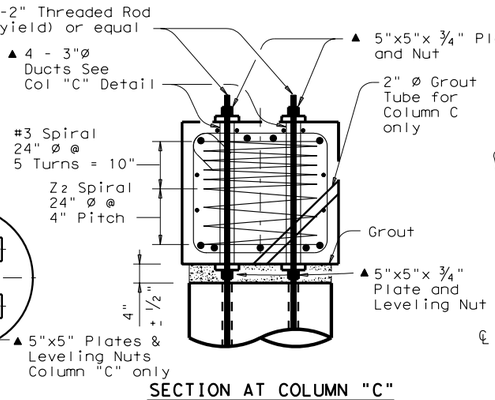
SECTION E-E



SECTION AT COLUMN "A"

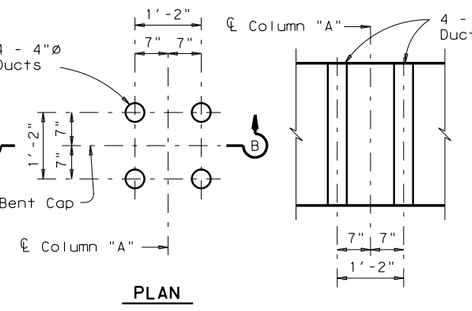


PLAN



SECTION AT COLUMN "C"

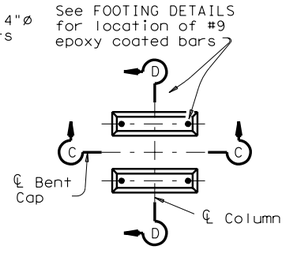
SHIM DETAILS FOR COLUMN A & C



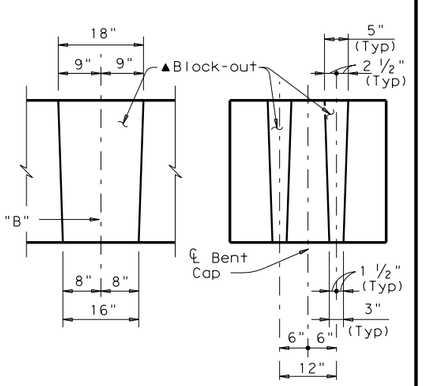
PLAN

SECTION B-B

COLUMN "A" DETAIL

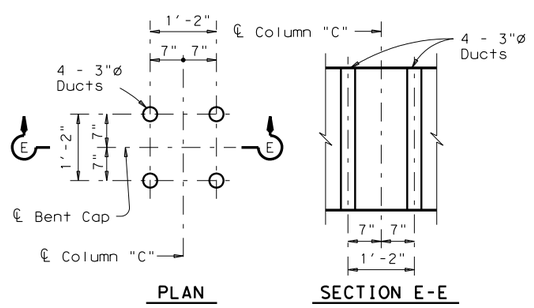


PLAN



SECTION C-C

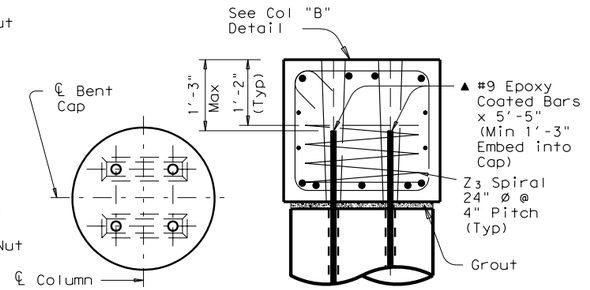
SECTION D-D



PLAN

SECTION E-E

COLUMN "C" DETAIL

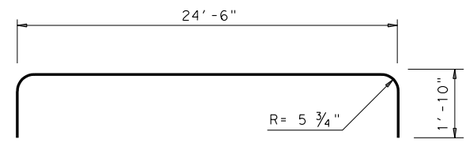


PLAN

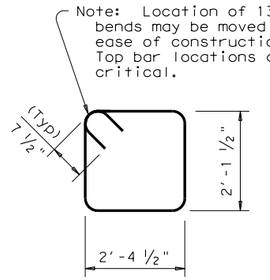
SECTION AT COLUMN "B"

DETAILS FOR COLUMN B

Note: Location of 135° bends may be moved for ease of construction. Top bar locations are critical.



BARS A



BARS S

TABLE OF ESTIMATED QUANTITIES

Bar	No.	Size	Length	Weight
A	4	#11	28'- 2"	599
B	5	#11	24'- 8"	655
G	4	# 4	2'-10"	8
S	30	# 6	10'- 3"	462
T	4	# 5	24'- 8"	101
Z_1	1	# 3	88'- 3"	33
Z_2	1	# 3	113'- 5"	43
Z_3	1	# 3	50'- 5"	19
Reinforcing Steel			Lb	1,920
Class "C" Concrete			CY	6.3

GENERAL NOTES:

Special Loading for Bridge Research.

Steel Plate shall be A36.

Threaded rod shall meet the requirements of alloy steel anchor bolts in accordance with the Item "Anchor Bolts" and ASTM 193 B7 or ASTM A687.

All ducts shall be rigid metal ducts and shall meet the requirements of the Item "Prestressing", subsection 426.3(4)(a), "Post-tensioning Tendons, Grouted" for rigid metal ducts.

SHEET 1 OF 2

Texas Department of Transportation
Design Division (Bridge)

PRECAST BENT CAP ROUND COLUMN

FILE: research.dgn	DN: EM	CK: CAT	DW: LW	CK: TxDOT
©TxDOT	DISTRICT	FEDERAL AID PROJECT		SHEET
REVISIONS				
	COUNTY	CONTROL	SECT	JOB	HIGHWAY

LEVELS DISPLAYED
1|2|4|5|6|7|8|9|10|11|12|13|14|15|16
17|18|19|20|21|22|32|42|52|62|72|82|92|93|03|13|23
33|43|53|63|73|83|94|04|14|24|34|44|54|64|74|84
95|05|15|25|35|45|55|65|75|85|96|06|16|26|36

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