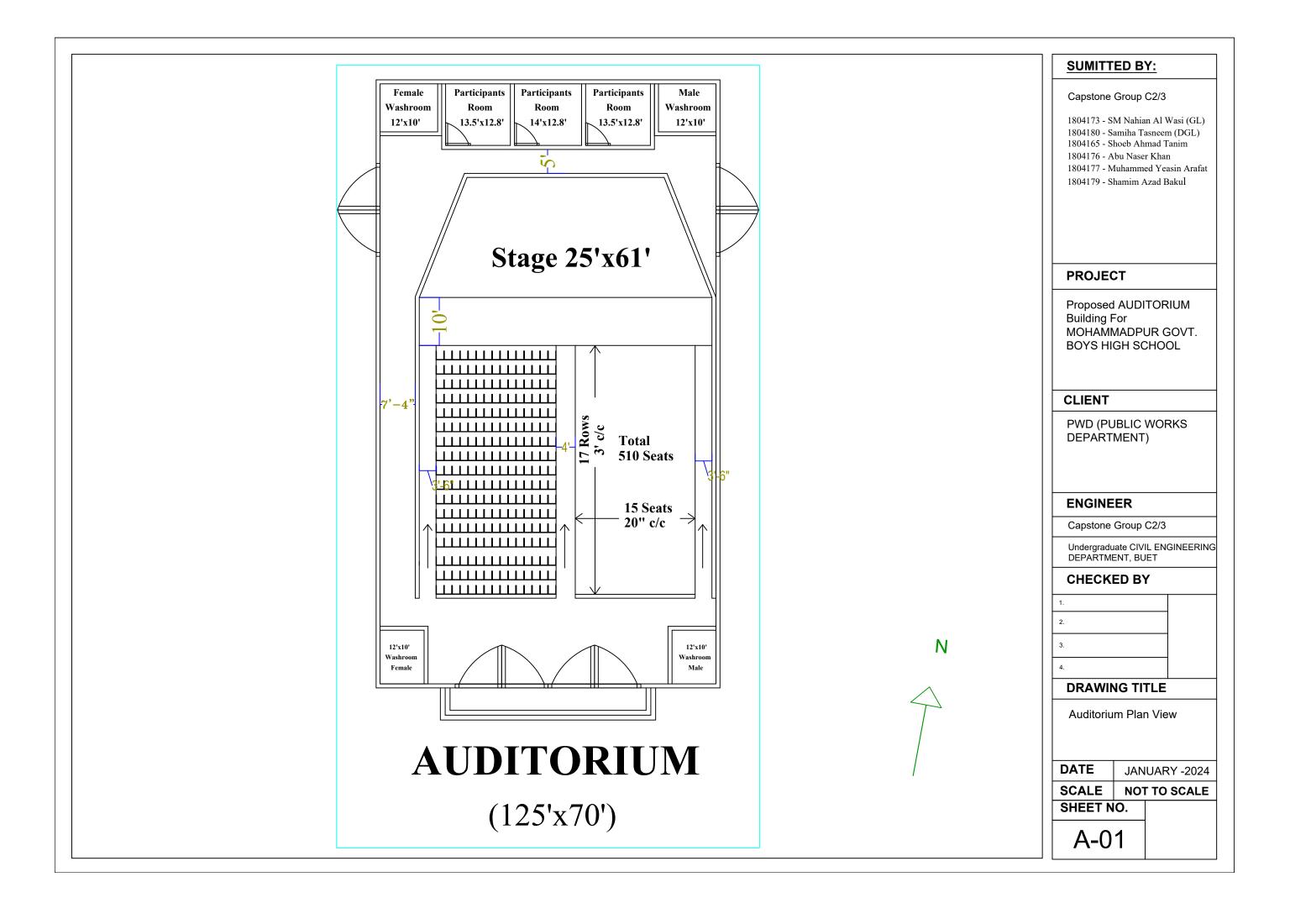
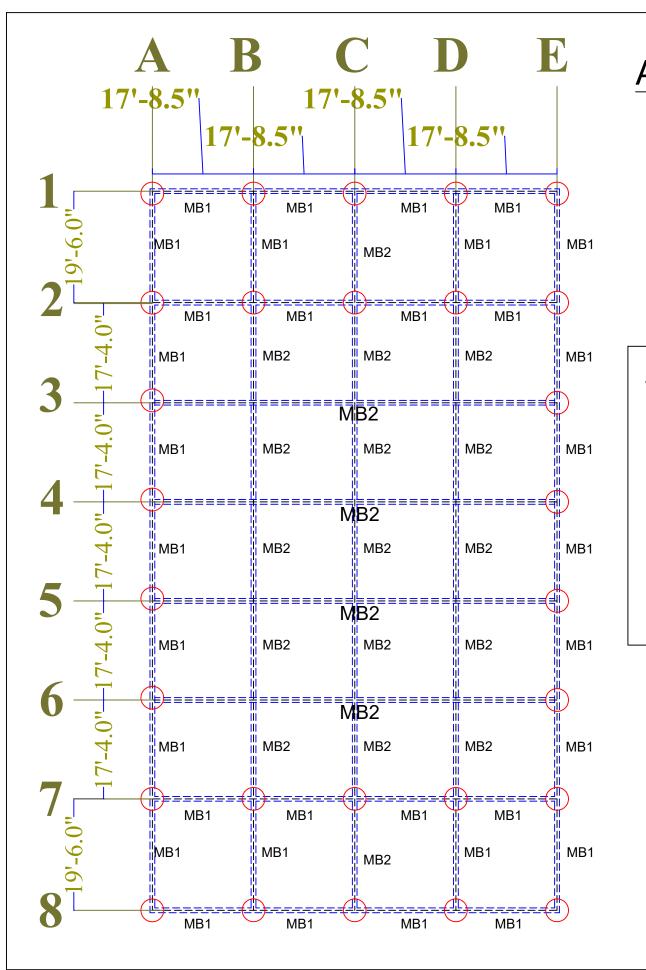
Mohammadpur Govt Boys High School Auditorium Building Structural Details





AUDITORIUM Beam Layout

MB1 18"x22"

MB2 24"x34"

Beam

Concrete Mix -1:2:4 (f'c=28 days cylinder strength= 4000 psi) (to be determined by trial mix design) Slump= 1"-2" Clear Cover=1.5"

Steel

fy= 60000 psi deormed bar. Lap length as per BNBC code

N



SUMITTED BY:

Capstone Group C2/3

1804173 - SM Nahian Al Wasi (GL)

1804180 - Samiha Tasneem (DGL) 1804165 - Shoeb Ahmad Tanim

1804176 - Abu Naser Khan

1804177 - Muhammed Yeasin Arafat

1804179 - Shamim Azad Bakul

PROJECT

Proposed AUDITORIUM Building For MOHAMMADPUR GOVT. BOYS HIGH SCHOOL

CLIENT

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Capstone Group C2/3

Undergraduate CIVIL ENGINEERING DEPARTMENT, BUET

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DRAWING TITLE

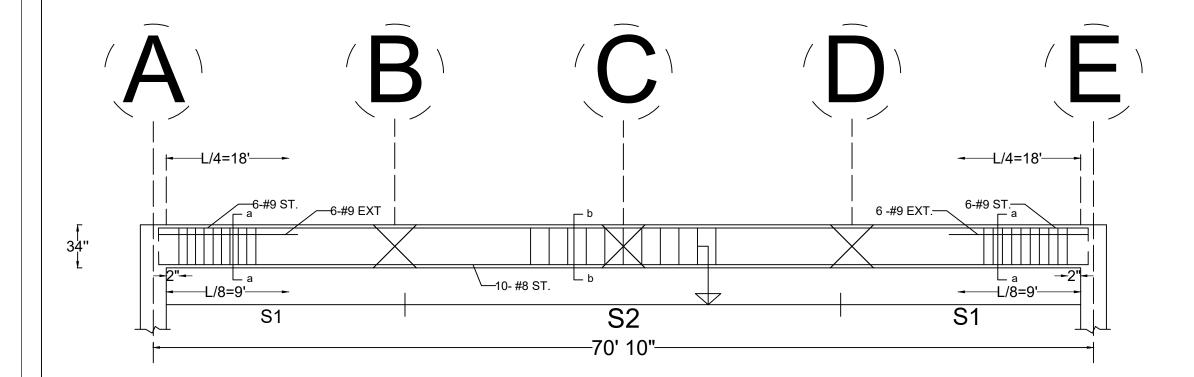
Beam Layout

DATE JANUARY -2024

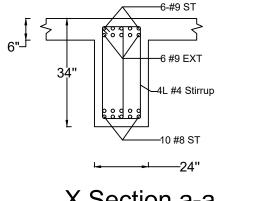
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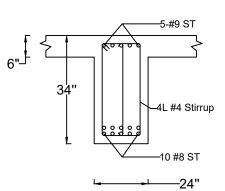
Typical Floor Roof Beam Reinforcement Details



LONG SECTION OF FLOOR BEAM- MB2 24"x34"



X Section a-a MB2 24"x34"



X Section b-b MB2 24"x34"

S1 4 L #4 @6" c/c S2 4 L #4 @8" c/c

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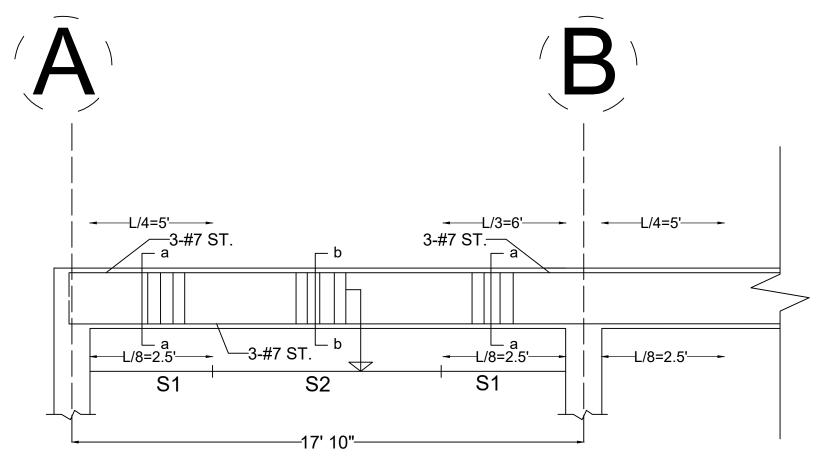
Beam Detailing

DATE JANUARY -2024

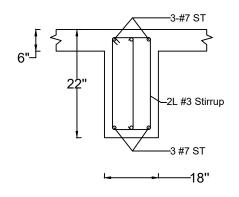
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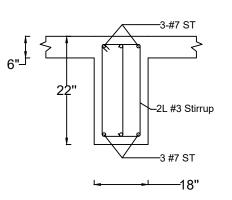
Typical Floor Roof Beam Reinforcement Details



LONG SECTION OF FLOOR BEAM- MB1 18"x22"



X Section a-a MB2 18"x22"



X Section b-b MB2 18"x22"

S1 2 L #3 @6" c/c S2 2 L #3 @8" c/c

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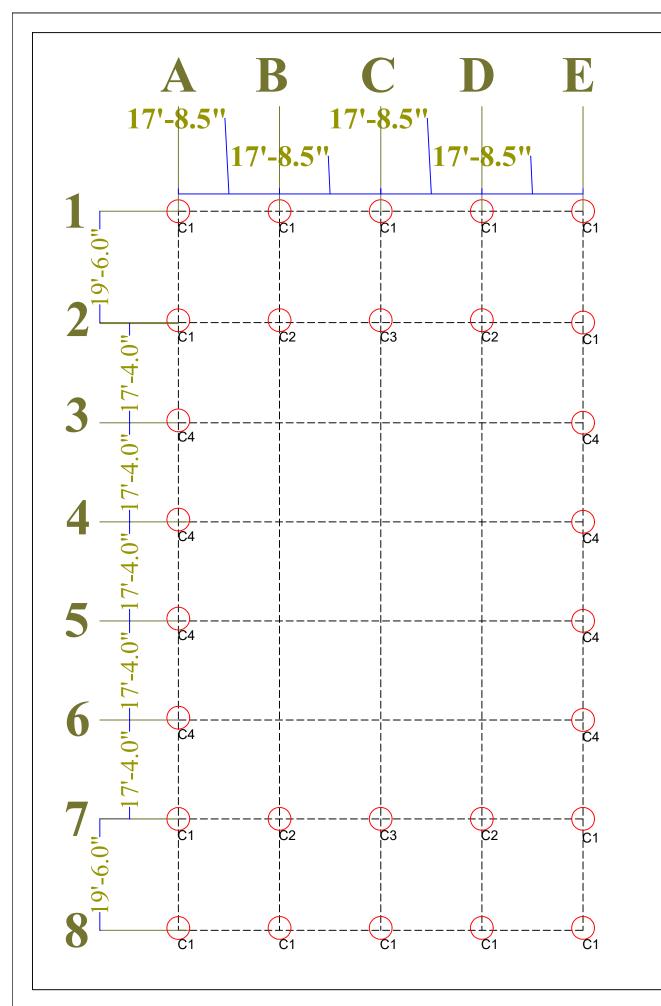
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Beam Detailing

DATE JANUARY -2024
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SHEET NO.



AUDITORIUM Column Layout

C1 18" Circular

C2 20" Circular

C3 24" Circular

C4 36" Circular

N



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ENGINEER

Capstone Group C2/3

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Column Layout

DATE JANUARY -2024
SCALE NOT TO SCALE

SHEET NO.

SCHEDULE OF COLUMN

COL.	Below Plinth.	Plinth To Rooftop
C1 circular column 18" dia	18" dia 3" CC 8 #8 bar #3 spiral tie bar @2" cc	18" dia 3" CC 8 #8 bar #3 spiral tie bar @2" cc
C2 circular column 20" dia	20" dia 3" CC 8 #8 bar #3 spiral tie bar @2" cc	20" dia 1.5" CC 8 #8 bar #3 spiral tie bar @2" cc
C3 circular column 24" dia	24" dia 3" CC 12 #8 bar #3 spiral tie bar @2" cc	24" dia 1.5" CC 12 #8 bar #3 spiral tie bar @2" cc
C4 circular column 36" dia	36" dia 3" CC 18 #9 bar #3 spiral tie bar @2.25" cc	36" dia 1.5" CC 18 #9 bar #3 spiral tie bar @2.25" cc

Column

Concrete Mix -1:2:4 (f'c=28 days cylinder strength= 4000 psi) (to be determined by trial mix design) Slump= 1"-2" Clear Cover= 3" & 1.5"

Steel

fy= 60000 psi deormed bar. Lap length as per BNBC code

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PROJECT

Proposed AUDITORIUM Building For MOHAMMADPUR GOVT. BOYS HIGH SCHOOL

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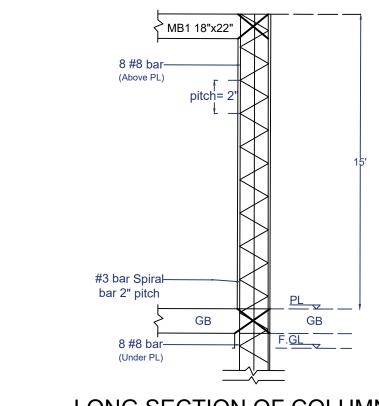
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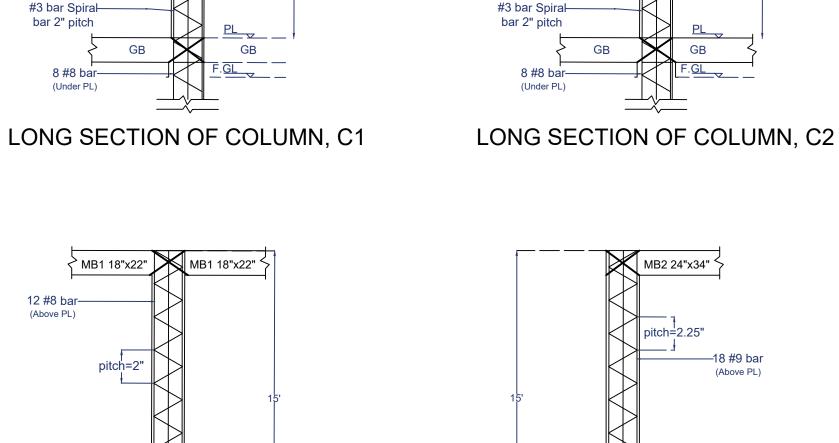
Column Detailing

DATE JANUARY -2024

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SHEET NO.





LONG SECTION OF COLUMN, C3

GB

F.<u>GL</u>

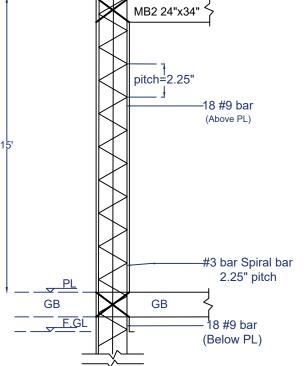
GB

#3 bar Spiral

bar 2" pitch

12 #8 bar

(Under PL)



MB1 18"x22"

GB

MB1 18"x22"

pitch=2"

8 #8 bar

(Above PL)

LONG SECTION OF COLUMN, C4

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PROJECT

Proposed AUDITORIUM **Building For** MOHAMMADPUR GOVT. **BOYS HIGH SCHOOL**

CLIENT

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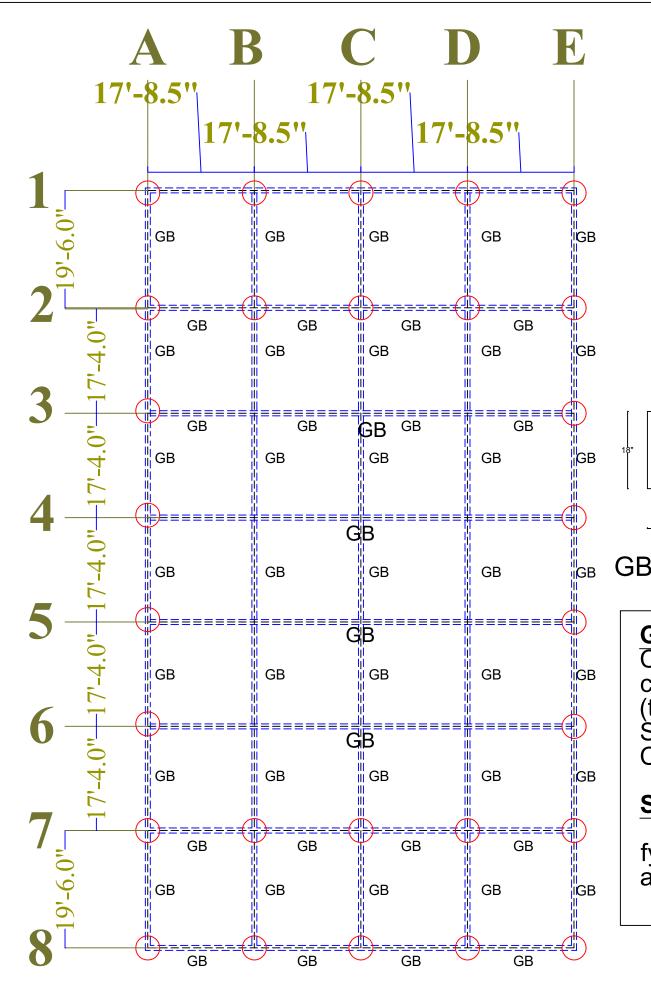
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Column Detailing

DATE JANUARY -2024

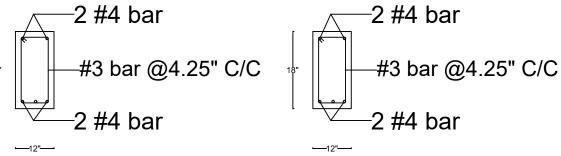
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SHEET NO.



AUDITORIUM Grade Beam Layout and Detail

GB 12"x18"



GB (Mid Section)

GB (Support Section)

Grade Beam

Concrete Mix -1:2:4 (f'c=28 days cylinder strength= 4000 psi) (to be determined by trial mix design) Slump= 1"-2" Clear Cover=1.5"

Steel

fy= 60000 psi deormed bar. Lap length as per BNBC code

N

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PROJECT

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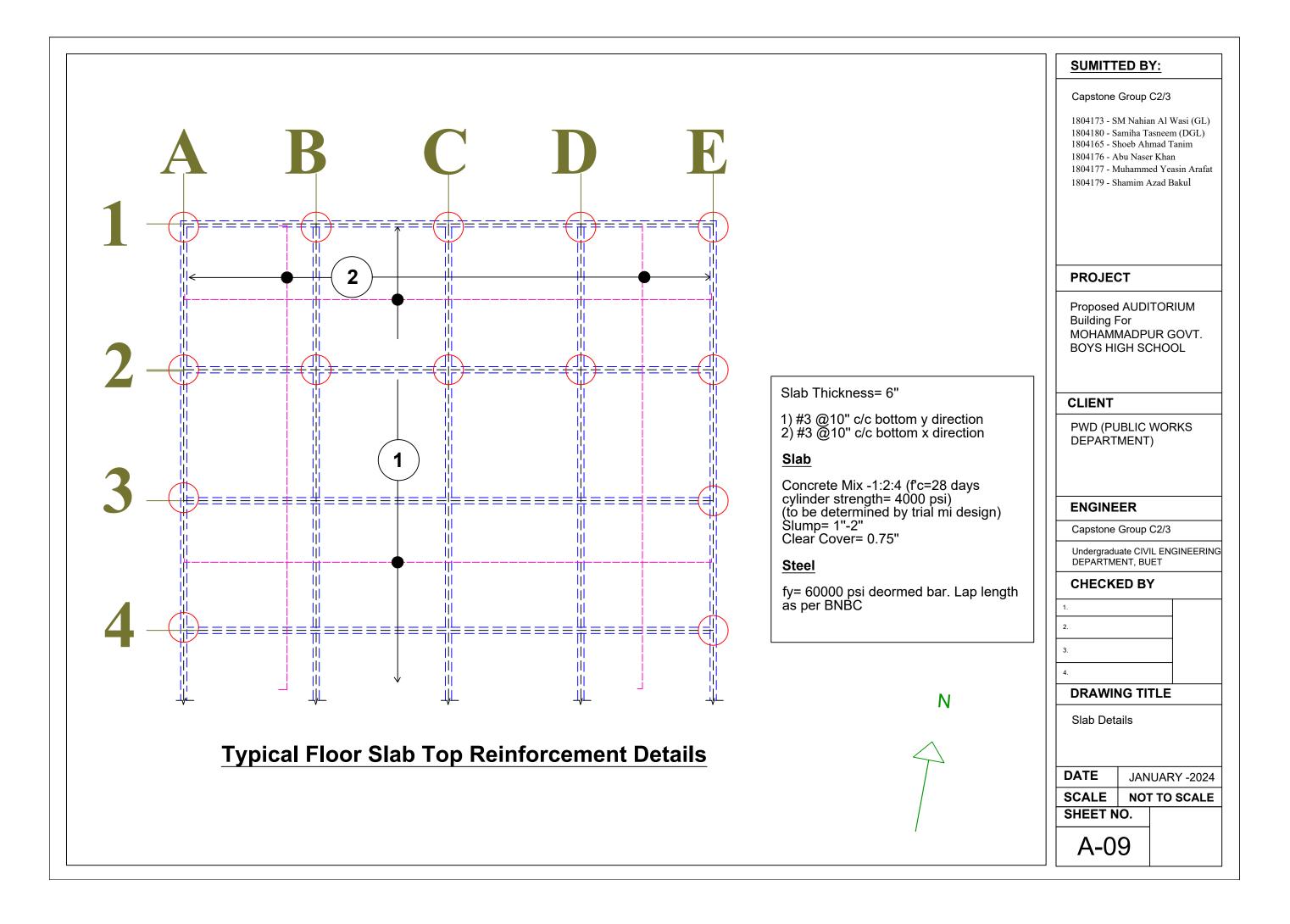
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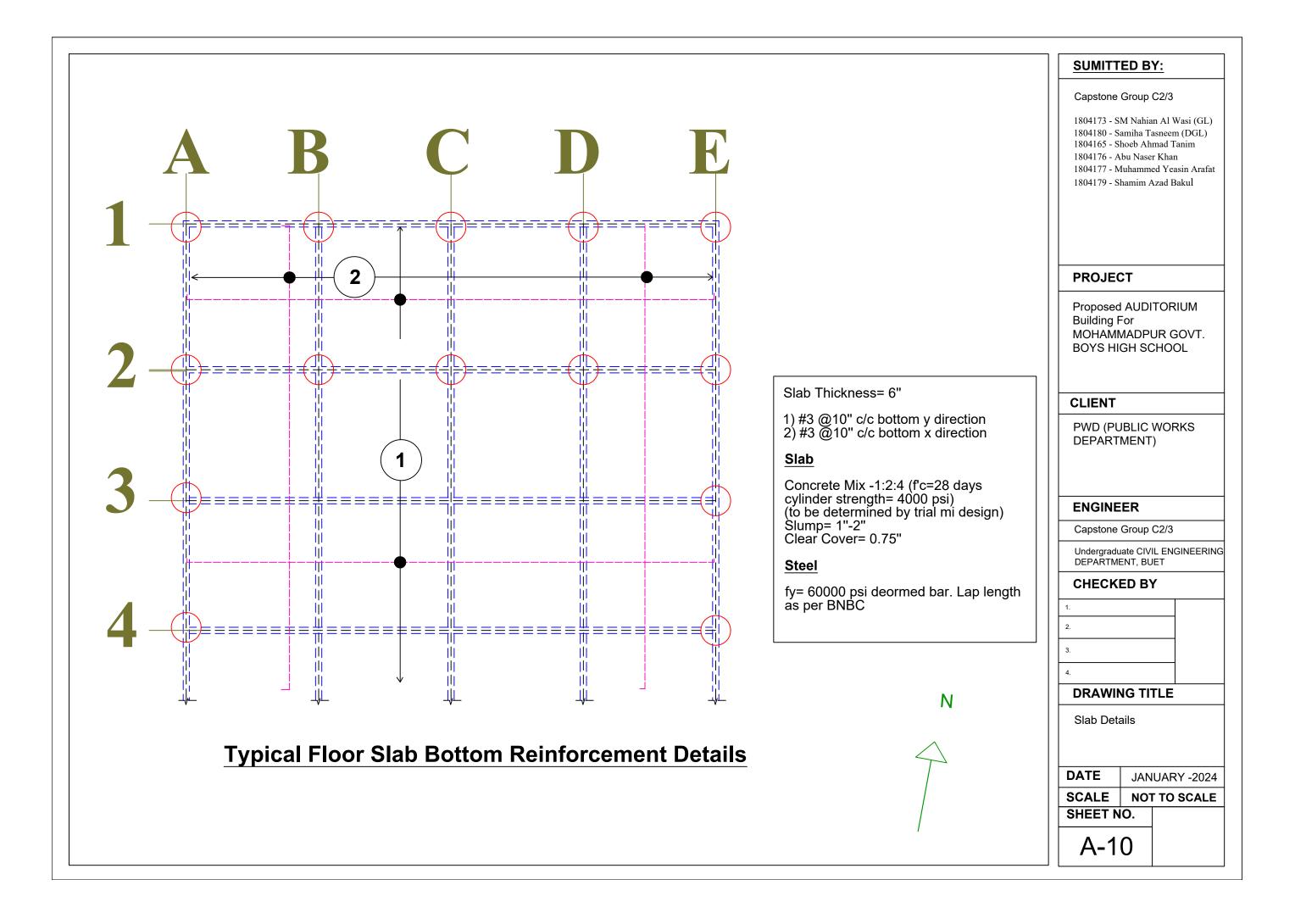
Grade Beam Layout and Detail

DATE JANUARY -2024

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SHEET NO.





17'-8.5" 17'-8.5" 17'-8.5" 17'-8.5" **IFA-01** IFA-01 IFA-01 IFA-01 IFA_t01 **IFA-01** IFA-02 IFA-03 IFA-02 IFA-04 **IFA-04** IFA-04 IFA-04 IFA-04 IFA-04 IFA-04 **IFA-04 IFA-01** IFA-01 **IFA-03 IFA-02 IFA-02 IFA-01 IFA-01 IFA-01 IFA-01 IFA-01**

AUDITORIUM Foundation Layout

IFA-01 2'x4'

IFA-02 4'x5'

IFA-03 6'x6'

IFA-04 4'x6'

Beam

Concrete Mix -1:2:4 (f'c=28 days cylinder strength= 4000 psi) (to be determined by trial mix design) Slump= 1"-2" Clear Cover=1.5"

Steel

fy= 60000 psi deormed bar. Lap length as per BNBC code

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DRAWING TITLE

Footing Layout

DATE JANUARY -2024

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SHEET NO.

