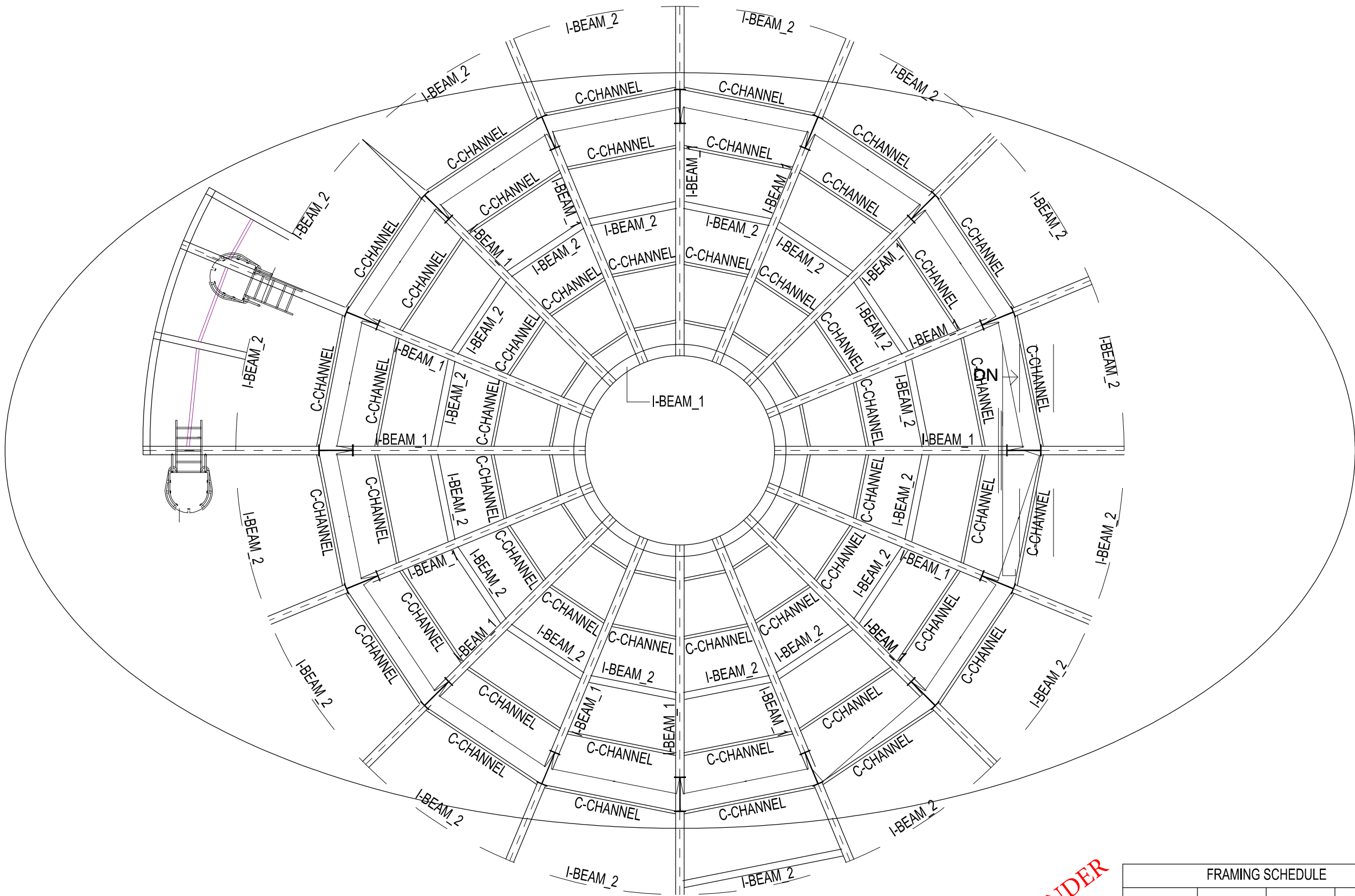




# ATCT CABIN FLOOR PLAN

ISSUE FOR TENDER

| FRAMING SCHEDULE |         |          |          |
|------------------|---------|----------|----------|
|                  | SIZE    | F        | W        |
| I- BEAM -1       | 400x150 | 150x21mm | 358x13mm |
| I- BEAM -2       | 300x125 | 125x12mm | 276x9mm  |
| C- CHANNEL       | C8x11.5 | -        | -        |

## NOTES:

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## CLIENT NAME



## MAIN CONSULTANT



## JV MEMBERS



## STRUCTURAL CONSULTANT



## MEP CONSULTANT

## Project Name

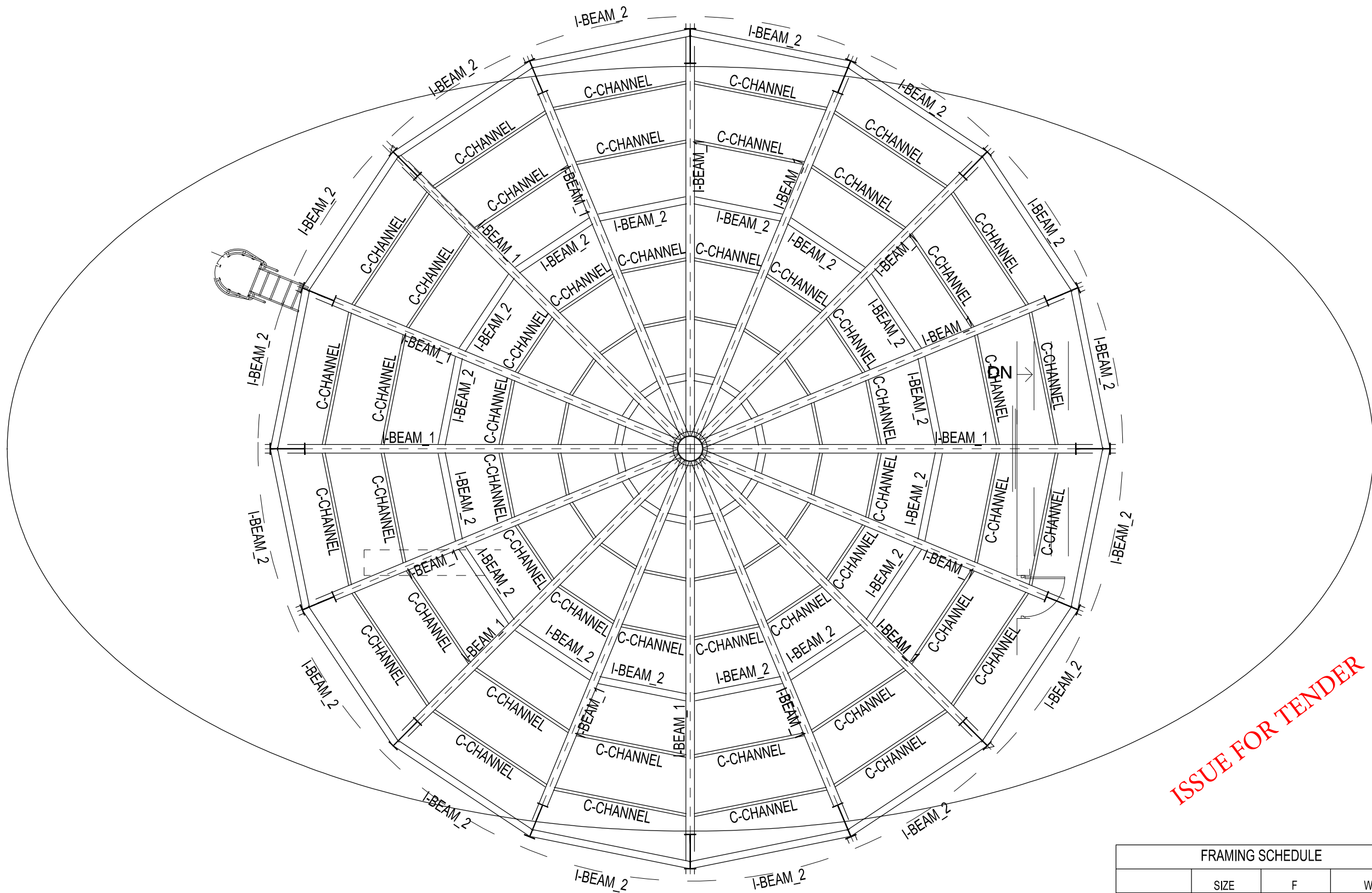
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

## Detailed Structural Design Drawings

## Sheet Name

ATC CABIN FLOOR PLAN

|             |                                    |
|-------------|------------------------------------|
| Date        | April, 2026                        |
| Scale       | NTS                                |
| Drawn by    | Engr. ABDULLAH JAVAID (Civil/5917) |
| Checked by  | Engr M. Aamir (Civil/10584)        |
| Approved by | Engr. Dr M- Rizwan                 |
| Drawing No. | S-26                               |



ATCT ROOF FRAMING PLAN

ISSUE FOR TENDER

| FRAMING SCHEDULE |         |          |          |
|------------------|---------|----------|----------|
|                  | SIZE    | F        | W        |
| I- BEAM -1       | 400x150 | 150x21mm | 358x13mm |
| I- BEAM -2       | 300x125 | 125x12mm | 276x9mm  |
| C- CHANNEL       | C8x11.5 | -        | -        |

**NOTES:**  
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**CLIENT NAME**



پاکستان ایئر پورٹس اتھارٹی

**MAIN CONSULTANT**



Anwar Ali Architects (Pvt.) Ltd.  
Consulting,Architects,Engineers  
Planners & Management Consultants  
06 HBFC BLOCK A FAISAL TOWN LAHORE

**JV MEMBERS**



**STRUCTURAL CONSULTANT**



**AR ENGINEERS**  
Architects, Structural, Earthquake Engineering, Geo Technical,  
Public Health, Highway, Electrical Design Solution.  
Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore.  
Ph: 042-35831906 03008813921, E-mail: arengineers786@gmail.com

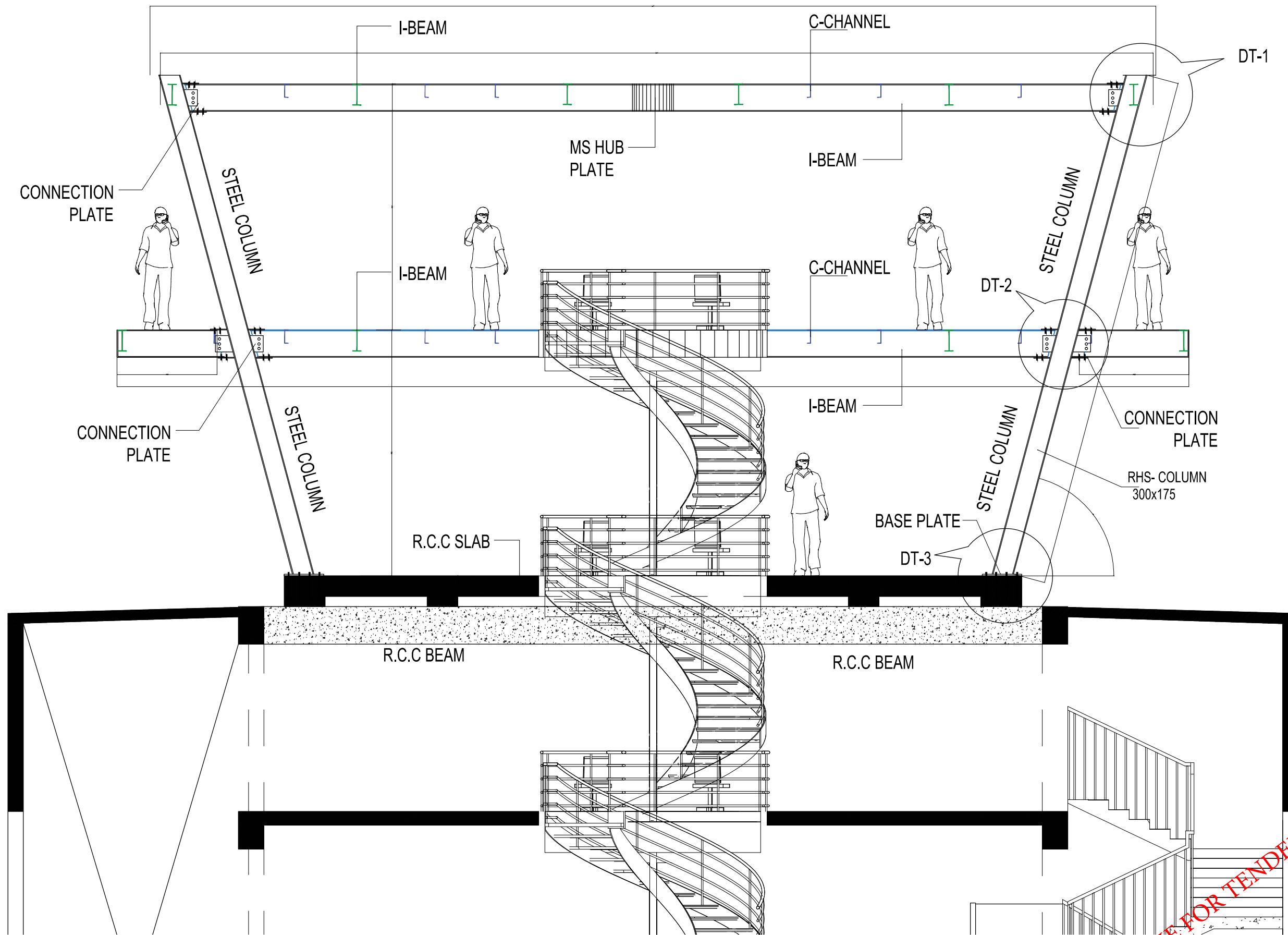
**MEP CONSULTANT**

**Project Name**

Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

**Detailed Structural Design Drawings**

| Sheet Name            |                                      |
|-----------------------|--------------------------------------|
| ATC ROOF FRAMING PLAN |                                      |
| Date                  | April, 2026                          |
| Scale                 | NTS                                  |
| Drawn by              | Engr. ABDULLAH JAVAID<br>(Civi/5917) |
| Checked by            | Engr M. Aamir<br>(Civi/10584)        |
| Approved by           | Engr. Dr M- Rizwan                   |
| Drawing No.           | S-27                                 |



TYP. ATCT STRUCTURE SECTION

ISSUE FOR TENDER

NOTES:

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CLIENT NAME



MAIN CONSULTANT



JV MEMBERS



STRUCTURAL CONSULTANT

AR ENGINEERS  
Architects, Structural, Earthquake Engineering, Geo Technical, Public Health, Highway, Electrical Design Solution.  
Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore.  
Ph: 042-35831906 03008813921, E-mail: arengineers786@gmail.com

MEP CONSULTANT

Project Name

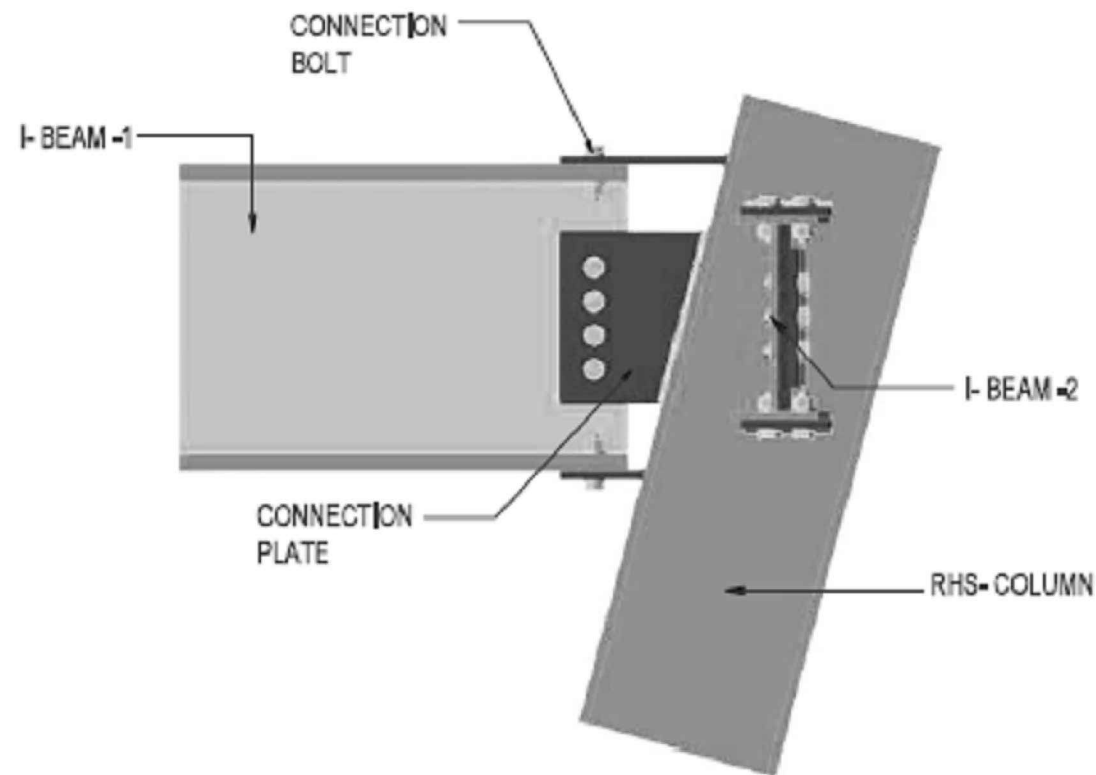
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

Detailed Structural Design Drawings

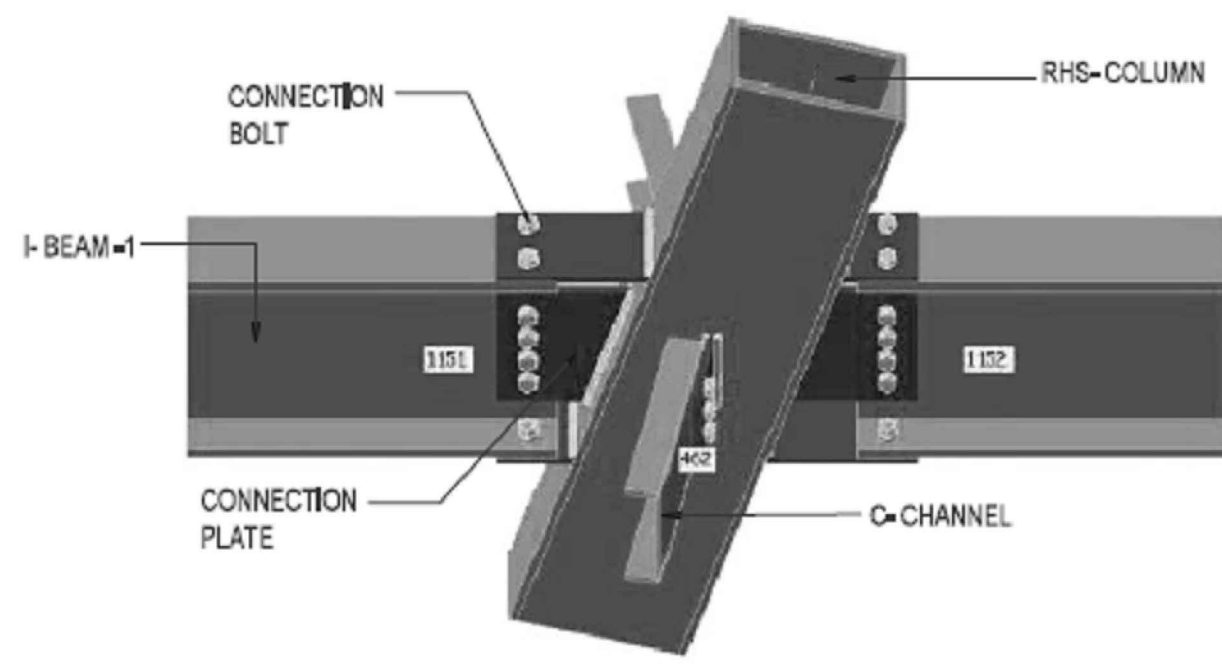
Sheet Name

ATCT STRUCTURE SECTION

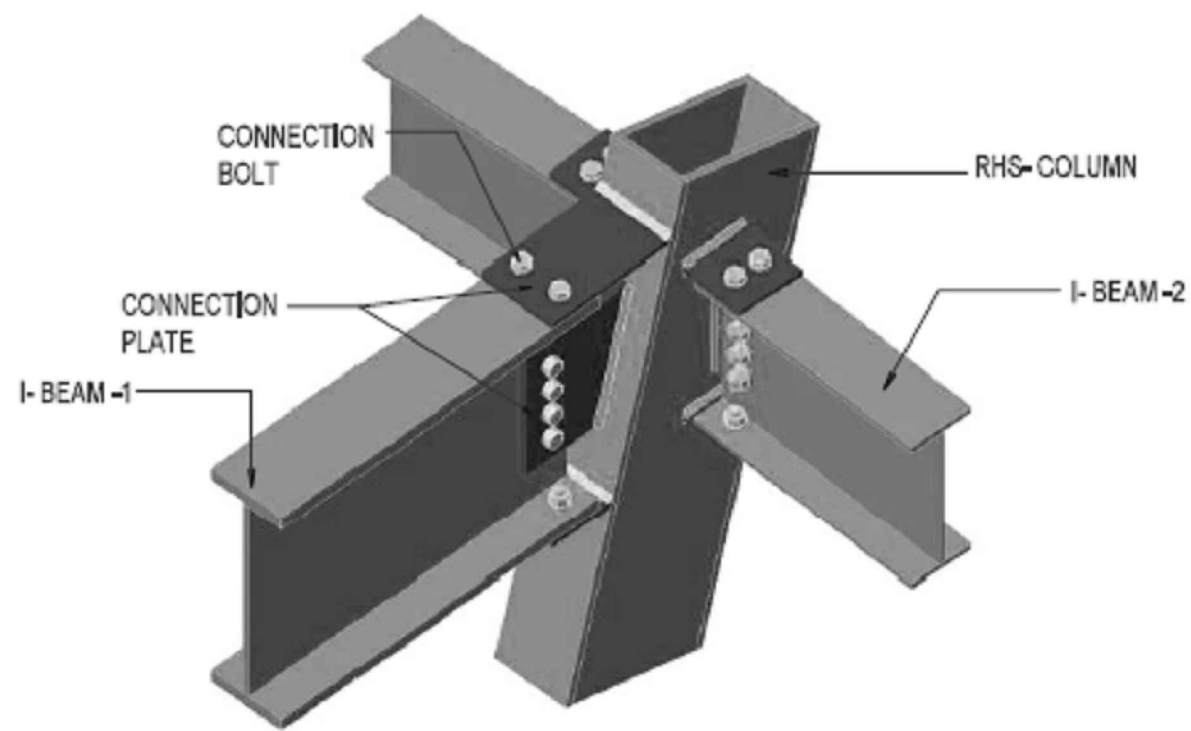
|             |                                   |
|-------------|-----------------------------------|
| Date        | April, 2026                       |
| Scale       | NTS                               |
| Drawn by    | Engr. ABDULLAH JAVAID (Civi/5917) |
| Checked by  | Engr M. Aamir (Civi/10584)        |
| Approved by | Engr. Dr M- Rizwan                |
| Drawing No. | S-28                              |



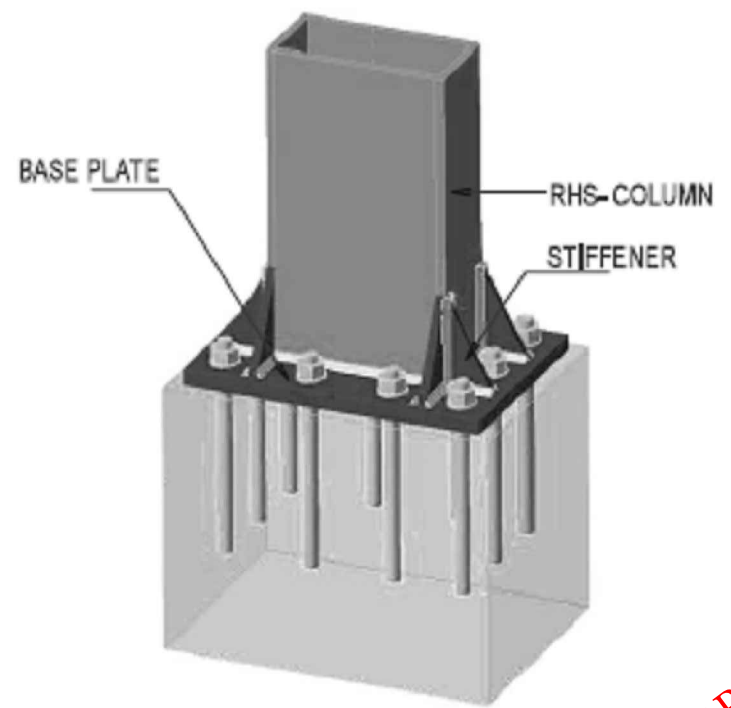
DETAIL-1 CONNECTION



DETAIL-2 CONNECTION



DETAIL-1 CONNECTION



DETAIL-3 BASE CONNECTION

## CONNECTIONS DETAIL

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**CLIENT NAME**

  
پاکستان ایئرپورٹس اتھارٹی

**MAIN CONSULTANT**

  
Anwar Ali Architects (Pvt.) Ltd.  
Consulting,Architects,Engineers  
Planners & Management Consultants  
06 HBFC BLOCK A FAISAL TOWN LAHORE

**JV MEMBERS**


**STRUCTURAL CONSULTANT**

  
AR ENGINEERS  
Architects, Structural, Earthquake Engineering, Geo Technical,  
Public Health, Highway, Electrical Design Solution.  
Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore.  
Ph: 042-35831906 03008813921, E-mail: arengineers786@gmail.com

**MEP CONSULTANT**

**Project Name**

Consultancy Services for  
New Air Traffic Control Tower  
(ATCT), Fire Station and Allied  
Facilities at Skardu  
International Airport

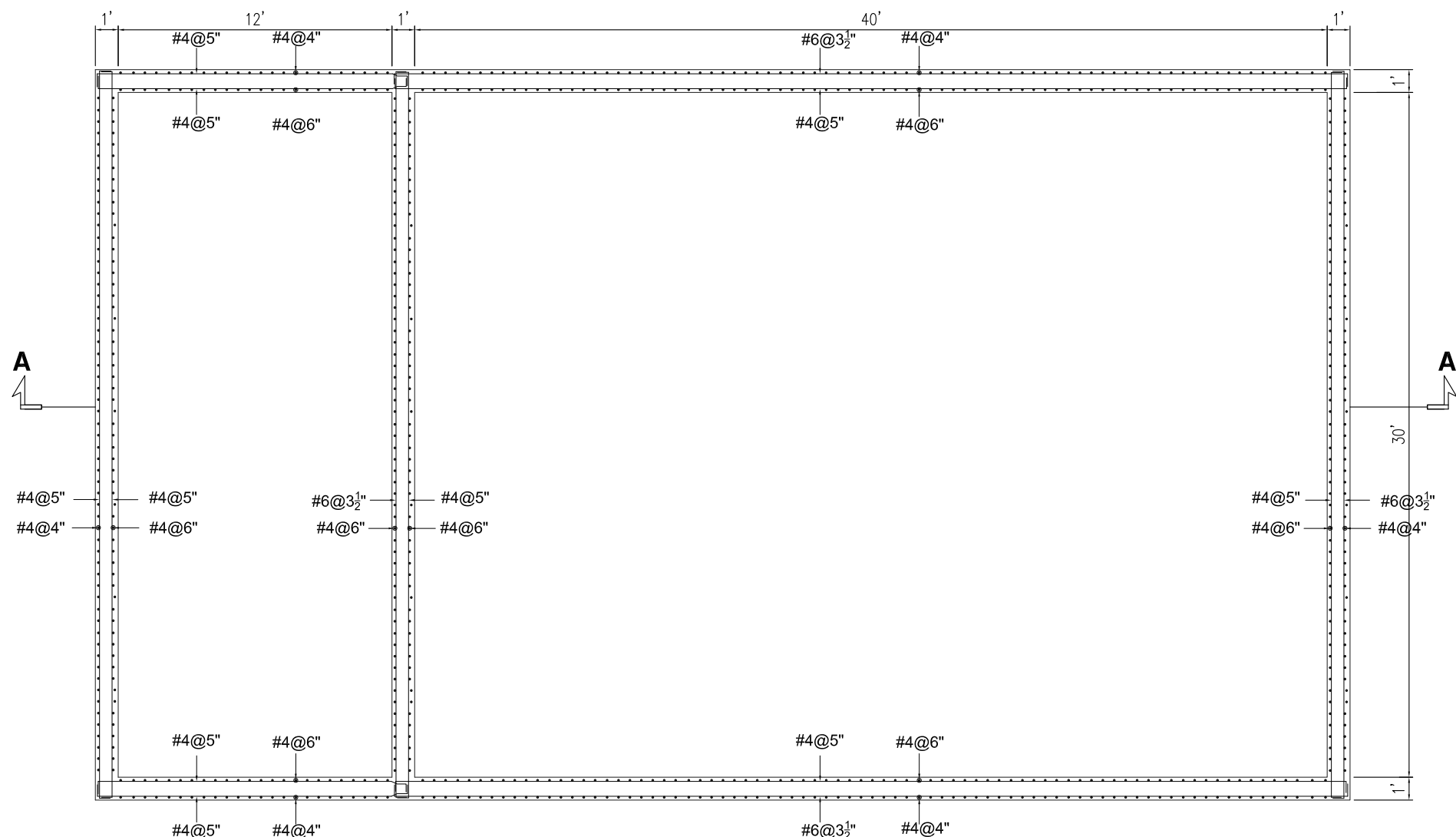
**Detailed Structural  
Design Drawings**

**Sheet Name**

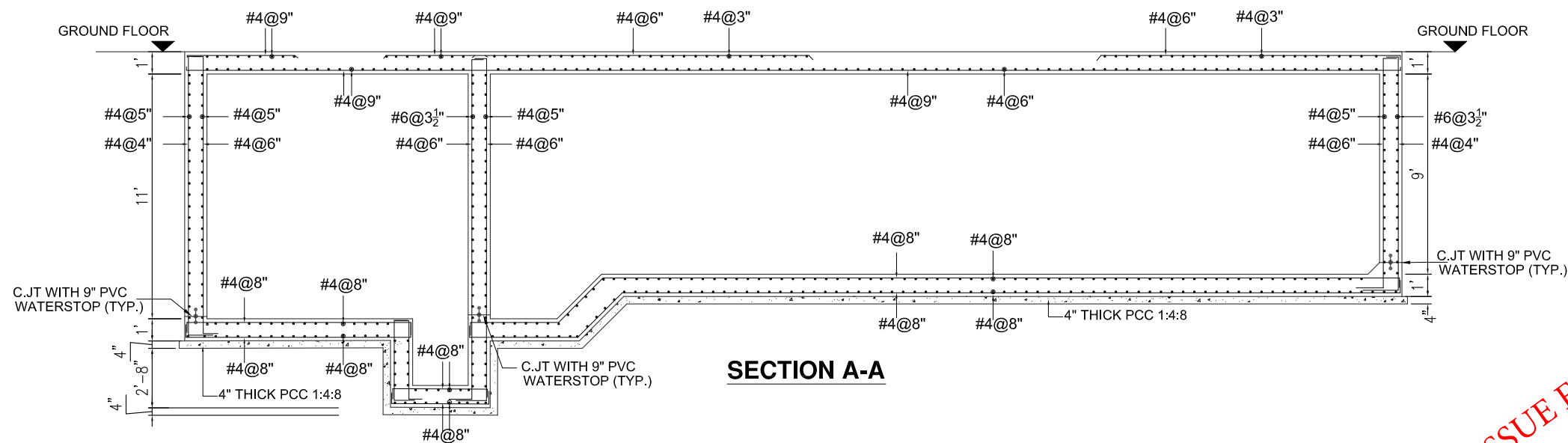
CONNECTIONS DETAIL

|             |                                      |
|-------------|--------------------------------------|
| Date        | April, 2026                          |
| Scale       | NTS                                  |
| Drawn by    | Engr. ABDULLAH JAVAID<br>(Civi/5917) |
| Checked by  | Engr M. Aamir<br>(Civi/10584)        |
| Approved by | Engr. Dr M- Rizwan                   |
| Drawing No. | S-29                                 |

ISSUE FOR TENDER



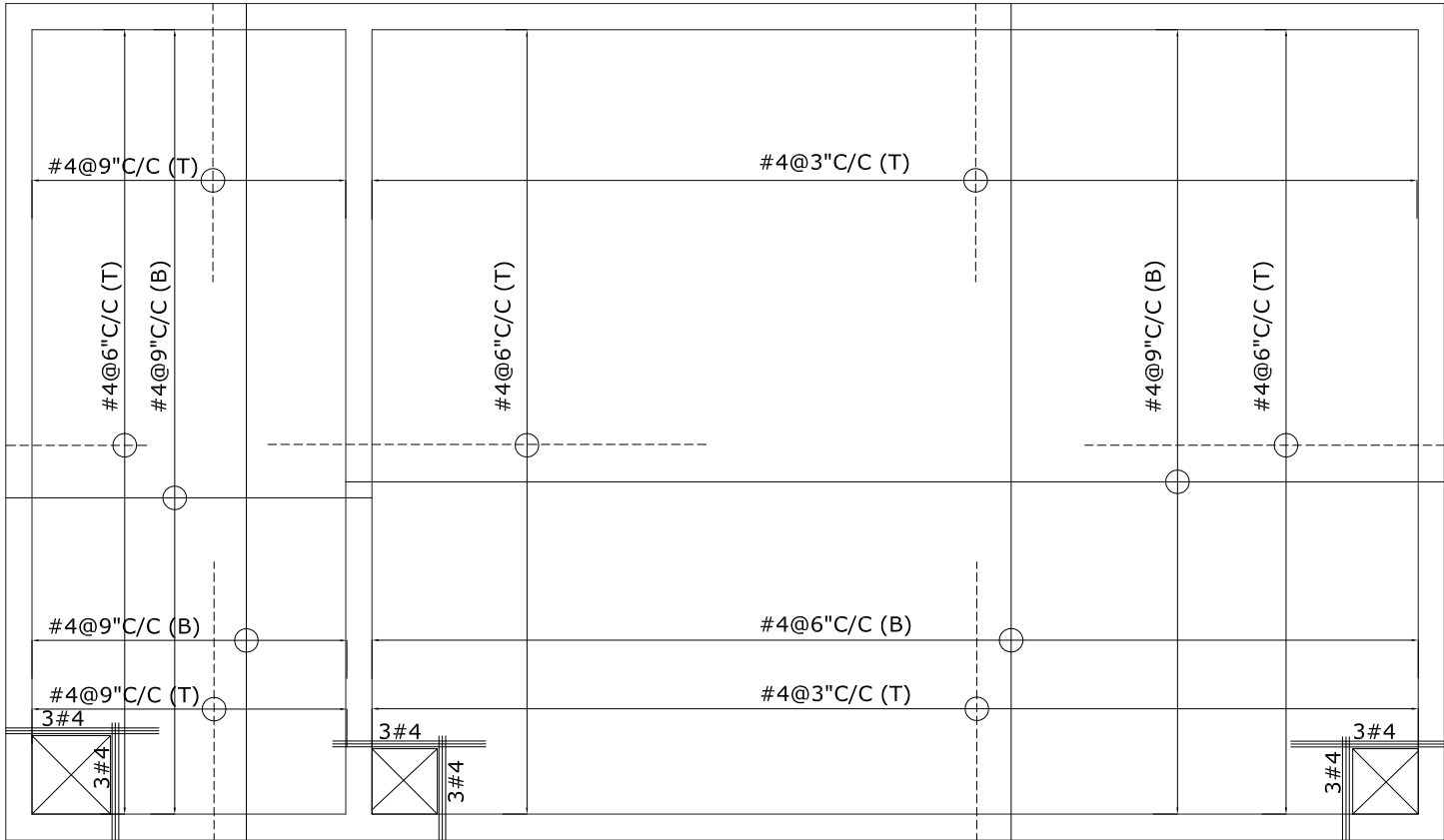
REINFORCEMENT PLAN OF  
UNDER GROUND WATER TANK FOR FIRE FIGHTING



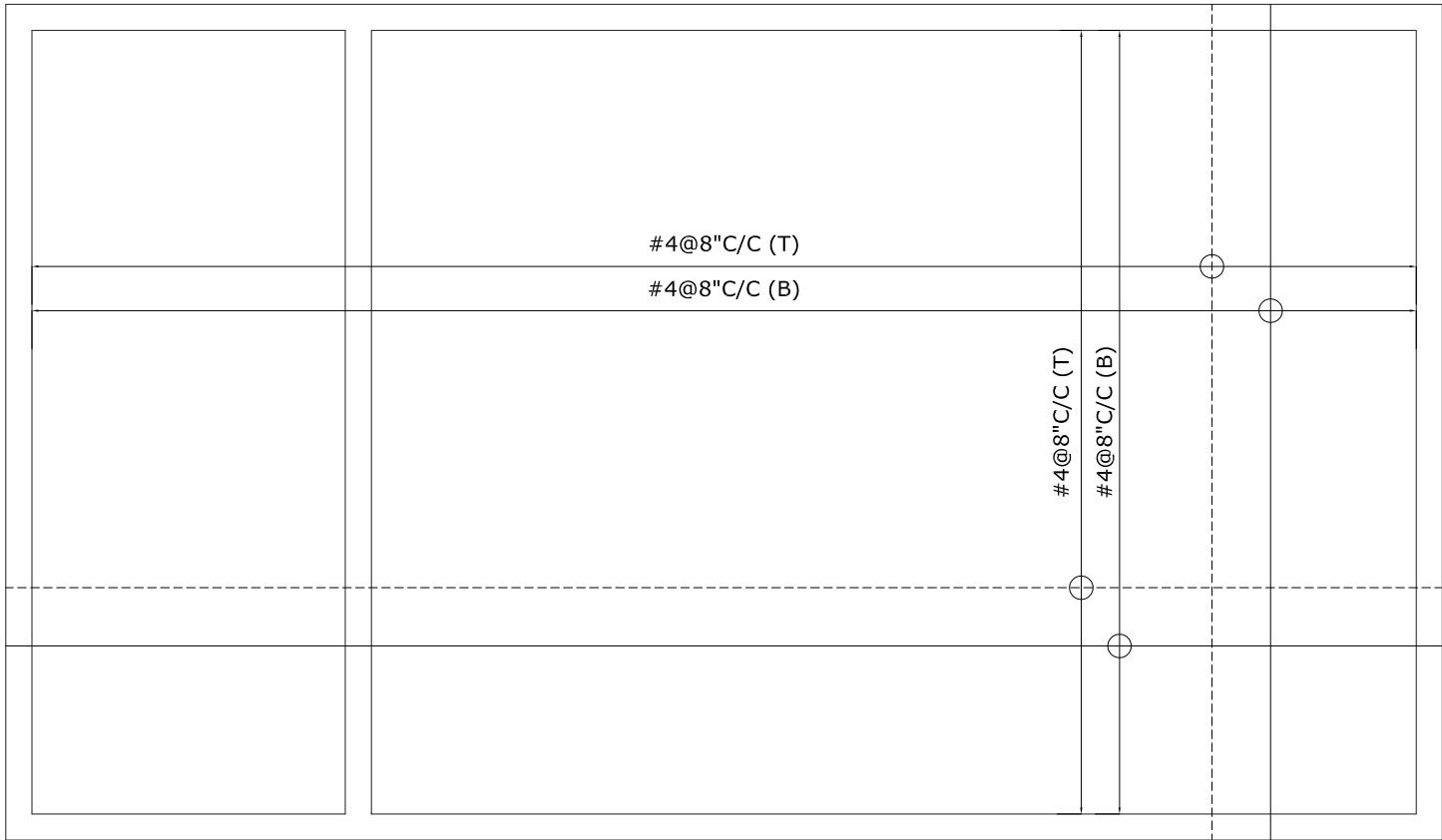
SECTION A-A

ISSUE FOR TENDER

|                                                                                                                                                                                                                                                                            |                                     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
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| <b>CLIENT NAME</b>                                                                                                                                                                                                                                                         |                                     |
|                                                                                                                                                                                                                                                                            |                                     |
| <b>MAIN CONSULTANT</b>                                                                                                                                                                                                                                                     |                                     |
|                                                                                                                                                                                                                                                                            |                                     |
| <b>JV MEMBERS</b>                                                                                                                                                                                                                                                          |                                     |
|                                                                                                                                                                                                                                                                            |                                     |
| <b>STRUCTURAL CONSULTANT</b>                                                                                                                                                                                                                                               |                                     |
|                                                                                                                                                                                                                                                                            |                                     |
| <b>MEP CONSULTANT</b>                                                                                                                                                                                                                                                      |                                     |
| <b>Project Name</b>                                                                                                                                                                                                                                                        |                                     |
| Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport                                                                                                                                          |                                     |
| <b>Detailed Structural Design Drawings</b>                                                                                                                                                                                                                                 |                                     |
| <b>Sheet Name</b>                                                                                                                                                                                                                                                          |                                     |
| FIRE FIGHTING WATER TANK                                                                                                                                                                                                                                                   |                                     |
| Date                                                                                                                                                                                                                                                                       | April, 2026                         |
| Scale                                                                                                                                                                                                                                                                      | NTS                                 |
| Drawn by                                                                                                                                                                                                                                                                   | Engr. ABDULLAH JAVAID (Civil/59178) |
| Checked by                                                                                                                                                                                                                                                                 | Engr M. Aamir (Civil/10584)         |
| Approved by                                                                                                                                                                                                                                                                | Engr. Dr M- Rizwan                  |
| Drawing No.                                                                                                                                                                                                                                                                | S-30                                |



TOP SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 12"

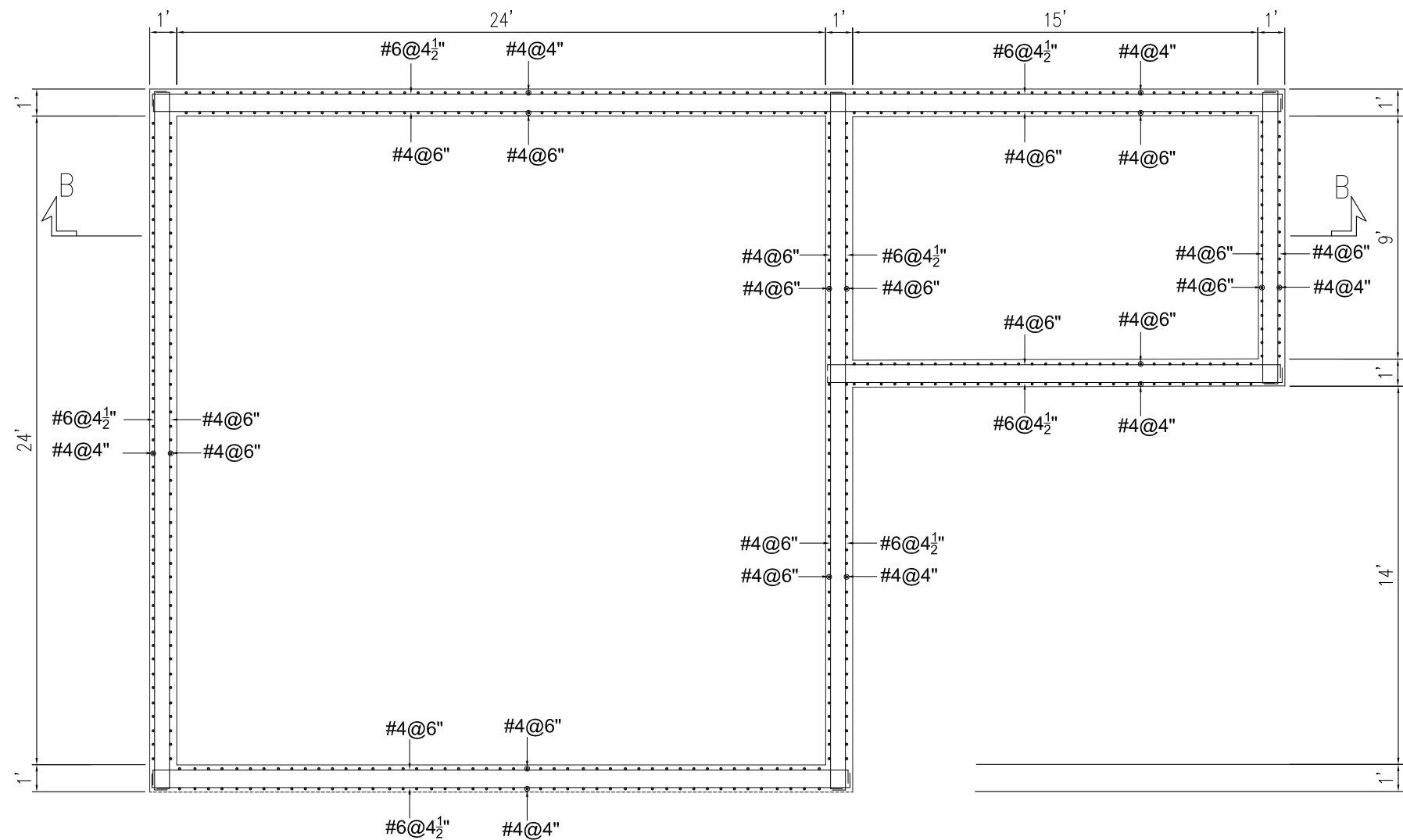


BASE SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 12"

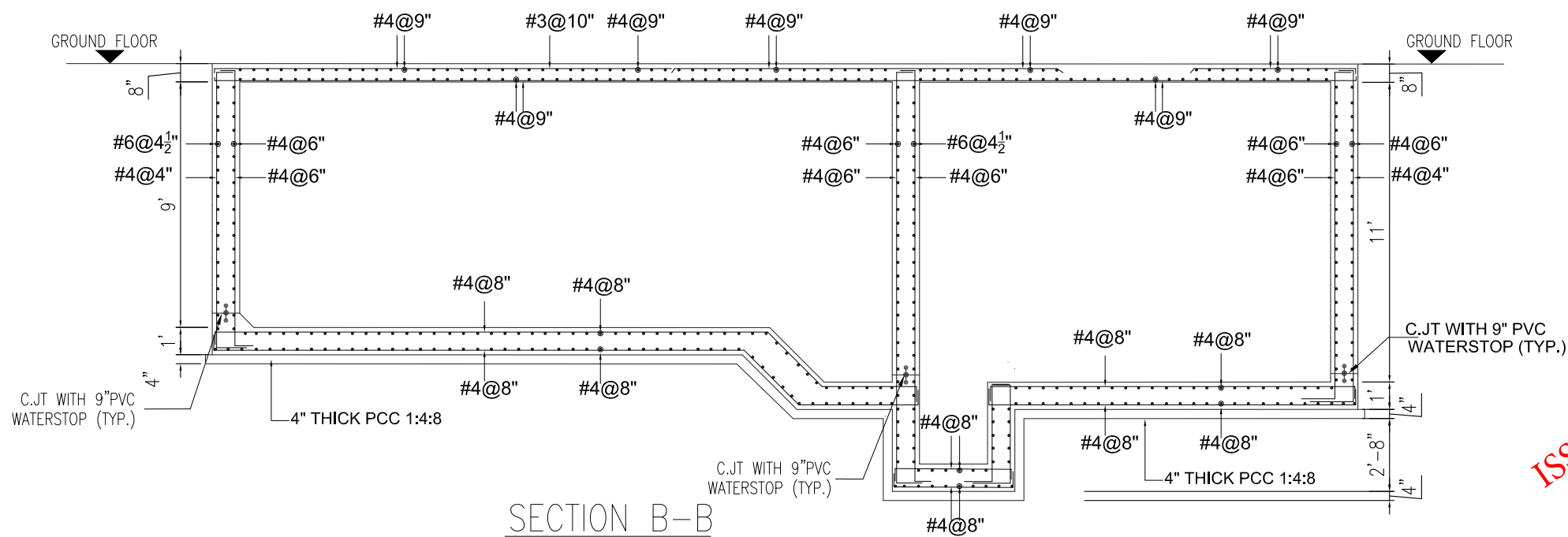
NOTE:  
-PROVIDE #3 @ 10" C/C DISTRIBUTION STEEL  
WITH TOP (NEGATIVE) REINFORCEMENT OF ALL SLABS  
-PROVIDE 3#6 BARS WITH BOTTOM REINFORCEMENT UNDER  
THE WALLS IF CONSTRUCTED DIRECTLY ON SLAB  
-ALT BOTTOM STEEL IS CURTAILED AT L/8 AND TOP STEEL IS CUT  
AT L/3 OF THE SPAN  
-CONSIDER CONTINUOUS AND DIS-CONTINUOUS EDGES WHILE  
LAYING TOP STEEL BARS  
-FOR DIS-CONTINUOUS EDGE, BEND THE END OF BARS WITHIN  
SLAB THICKNESS  
-FOR POSITIVE REINFORCEMENT, PLACE BARS ALONG LONGER SPAN  
ON TOP OF BARS PLACED ALONG SHORTER SPAN  
-BEAMS POSITIONS MAY BE ADJUSTED AS PER ARCHITECTURAL  
REQUIREMENT WITHOUT CHANGING BEAM COLUMN FRAME  
-BOTTOM BARS ARE REPRESENTED BY (B) AND TOP BARS BY (T)

ISSUE FOR TENDER

|                                                                                                                                                                                                                                                                                                                                                                              |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
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| <b>CLIENT NAME</b>                                                                                                                                                                                                                                                                                                                                                           |                                        |
|                                                                                                                                                                                                                                                                                           |                                        |
| <b>MAIN CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <br>Anwar Ali Architects (Pvt.) Ltd.<br>Consulting,Architects,Engineers<br>Planners & Management Consultants<br>66 HBFC BLOCK A FAISAL TOWN LAHORE                                                                                                                                        |                                        |
| <b>JV MEMBERS</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
| <br>                                                                                                                                                                                                  |                                        |
| <b>STRUCTURAL CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                 |                                        |
| <br>AR ENGINEERS<br>Architects, Stuctural, Earthquake Engineering, Geo Technical,<br>Public Health, Highway, Electrical Design Solution.<br>Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore.<br>Ph: 042-35831906 03008813921, E-mail: arengineers786@gmail.com |                                        |
| <b>MEP CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                        |                                        |
|                                                                                                                                                                                                                                                                                                                                                                              |                                        |
| <b>Project Name</b>                                                                                                                                                                                                                                                                                                                                                          |                                        |
| Consultancy Services for<br>New Air Traffic Control Tower<br>(ATCT), Fire Station and Allied<br>Facilities at Skardu<br>International Airport                                                                                                                                                                                                                                |                                        |
| <b>Detailed Structural<br/>Design Drawings</b>                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Sheet Name</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
| <b>FIRE FIGHTING WATER TANK</b>                                                                                                                                                                                                                                                                                                                                              |                                        |
| Date                                                                                                                                                                                                                                                                                                                                                                         | April, 2026                            |
| Scale                                                                                                                                                                                                                                                                                                                                                                        | NTS                                    |
| Drawn by                                                                                                                                                                                                                                                                                                                                                                     | Engr. ABDULLAH JAVAID<br>(Civil/59178) |
| Checked by                                                                                                                                                                                                                                                                                                                                                                   | Engr M. Aamir<br>(Civil/10584)         |
| Approved by                                                                                                                                                                                                                                                                                                                                                                  | Engr. Dr M- Rizwan                     |
| Drawing No.                                                                                                                                                                                                                                                                                                                                                                  | S-31                                   |



REINFORCEMENT PLAN  
UNDER GROUND WATER TANK



ISSUE FOR TENDER

#### NOTES:

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#### CLIENT NAME



#### MAIN CONSULTANT



#### JV MEMBERS



#### STRUCTURAL CONSULTANT



#### MEP CONSULTANT

#### Project Name

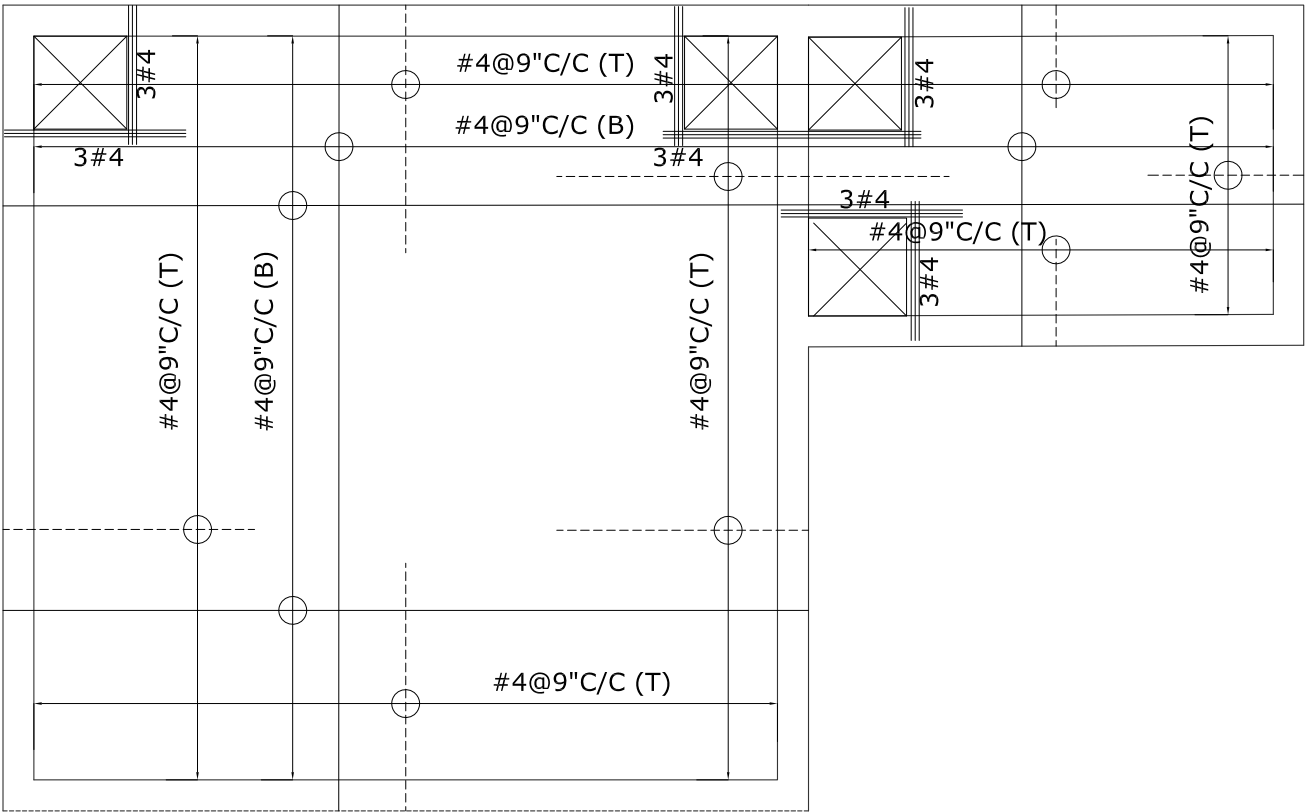
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

#### Detailed Structural Design Drawings

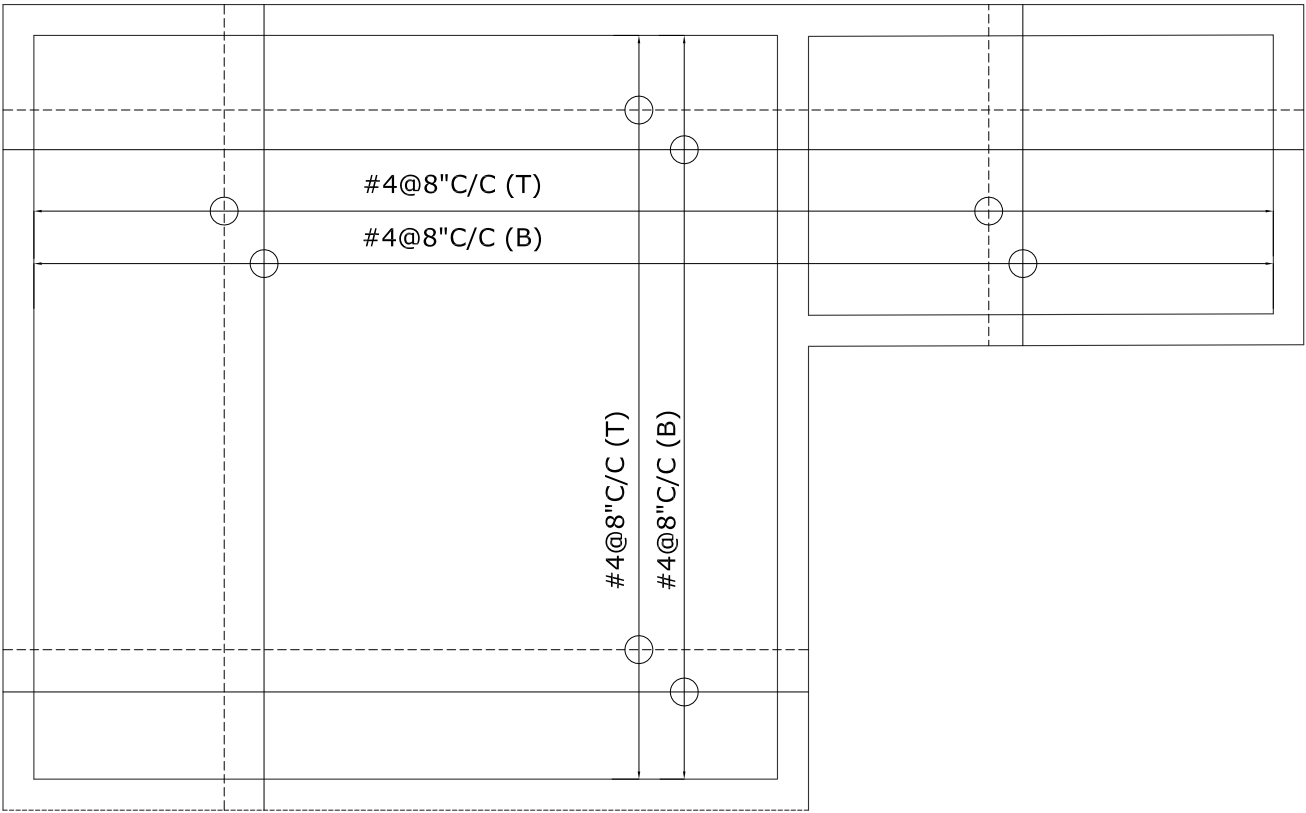
#### Sheet Name

UNDER GROUND WATER TANK

|             |                                     |
|-------------|-------------------------------------|
| Date        | April, 2026                         |
| Scale       | NTS                                 |
| Drawn by    | Engr. ABDULLAH JAVAID (Civil/59178) |
| Checked by  | Engr M. Aamir (Civil/10584)         |
| Approved by | Engr. Dr M- Rizwan                  |
| Drawing No. | S-32                                |



TOP SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 8"

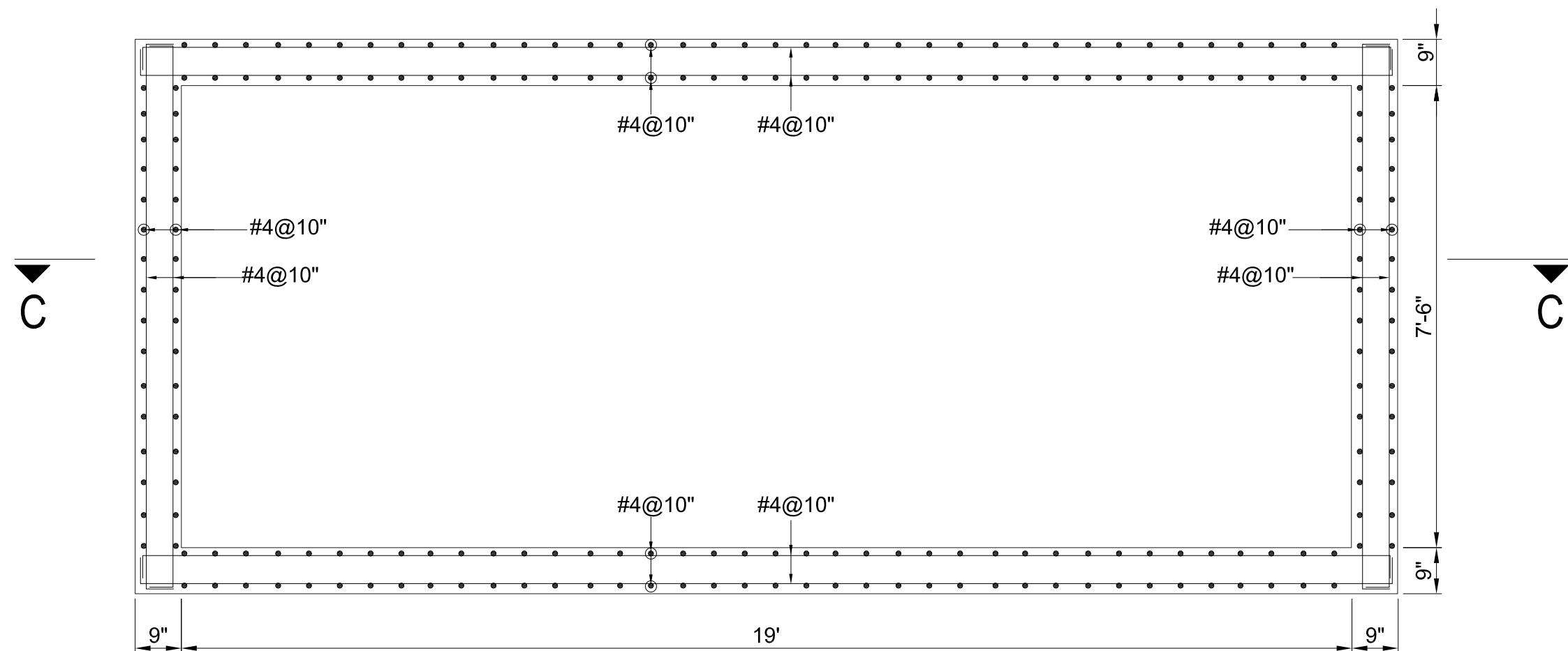


BASE SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 12"

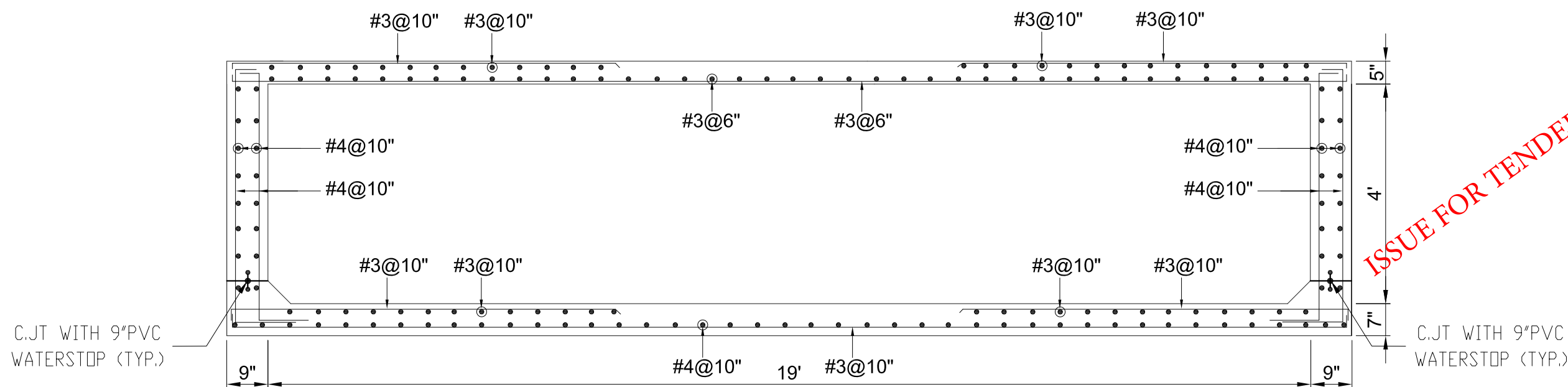
NOTE:  
-PROVIDE #3 @ 10" C/C DISTRIBUTION STEEL  
WITH TOP (NEGATIVE) REINFORCEMENT OF ALL SLABS  
-PROVIDE 3#6 BARS WITH BOTTOM REINFORCEMENT UNDER  
THE WALLS IF CONSTRUCTED DIRECTLY ON SLAB  
-ALT BOTTOM STEEL IS CURTAILED AT L/8 AND TOP STEEL IS CUT  
AT L/3 OF THE SPAN  
-CONSIDER CONTINUOUS AND DIS-CONTINUOUS EDGES WHILE  
LAYING TOP STEEL BARS  
-FOR DIS-CONTINUOUS EDGE, BEND THE END OF BARS WITHIN  
SLAB THICKNESS  
-FOR POSITIVE REINFORCEMENT, PLACE BARS ALONG LONGER SPAN  
ON TOP OF BARS PLACED ALONG SHORTER SPAN  
-BEAMS POSITIONS MAY BE ADJUSTED AS PER ARCHITECTURAL  
REQUIREMENT WITHOUT CHANGING BEAM COLUMN FRAME  
-BOTTOM BARS ARE REPRESENTED BY (B) AND TOP BARS BY (T)

ISSUE FOR TENDER

|                                                                                                                                                                                                                                                                                                                                                                               |                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
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| <b>CLIENT NAME</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
|                                                                                                                                                                                                                                                                                            |                                        |
| <b>MAIN CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                        |                                        |
| <br>Anwar Ali Architects (Pvt.) Ltd.<br>Consulting,Architects,Engineers<br>Planners & Management Consultants<br>06 HBFC BLOCK A FAISAL TOWN LAHORE                                                                                                                                         |                                        |
| <b>JV MEMBERS</b>                                                                                                                                                                                                                                                                                                                                                             |                                        |
| <br>                                                                                                                                                                                                   |                                        |
| <b>STRUCTURAL CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                  |                                        |
| <br>AR ENGINEERS<br>Architects, Structural, Earthquake Engineering, Geo Technical,<br>Public Health, Highway, Electrical Design Solution.<br>Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore.<br>Ph: 042-35831906 03008813921, E-mail: arengineers786@gmail.com |                                        |
| <b>MEP CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                         |                                        |
| <b>Project Name</b>                                                                                                                                                                                                                                                                                                                                                           |                                        |
| Consultancy Services for<br>New Air Traffic Control Tower<br>(ATCT), Fire Station and Allied<br>Facilities at Skardu<br>International Airport                                                                                                                                                                                                                                 |                                        |
| <b>Detailed Structural<br/>Design Drawings</b>                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Sheet Name<br/>UNDER GROUND<br/>WATER TANK</b>                                                                                                                                                                                                                                                                                                                             |                                        |
| Date                                                                                                                                                                                                                                                                                                                                                                          | April, 2026                            |
| Scale                                                                                                                                                                                                                                                                                                                                                                         | NTS                                    |
| Drawn by                                                                                                                                                                                                                                                                                                                                                                      | Engr. ABDULLAH JAVAID<br>(Civil/59178) |
| Checked by                                                                                                                                                                                                                                                                                                                                                                    | Engr M. Aamir<br>(Civil/10584)         |
| Approved by                                                                                                                                                                                                                                                                                                                                                                   | Engr. Dr M- Rizwan                     |
| Drawing No.                                                                                                                                                                                                                                                                                                                                                                   | S-33                                   |



REINFORCEMENT PLAN  
OVERHEAD WATER TANK



SECTION AT C-C

#### NOTES:

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#### CLIENT NAME



#### MAIN CONSULTANT



#### JV MEMBERS



#### STRUCTURAL CONSULTANT



#### MEP CONSULTANT

#### Project Name

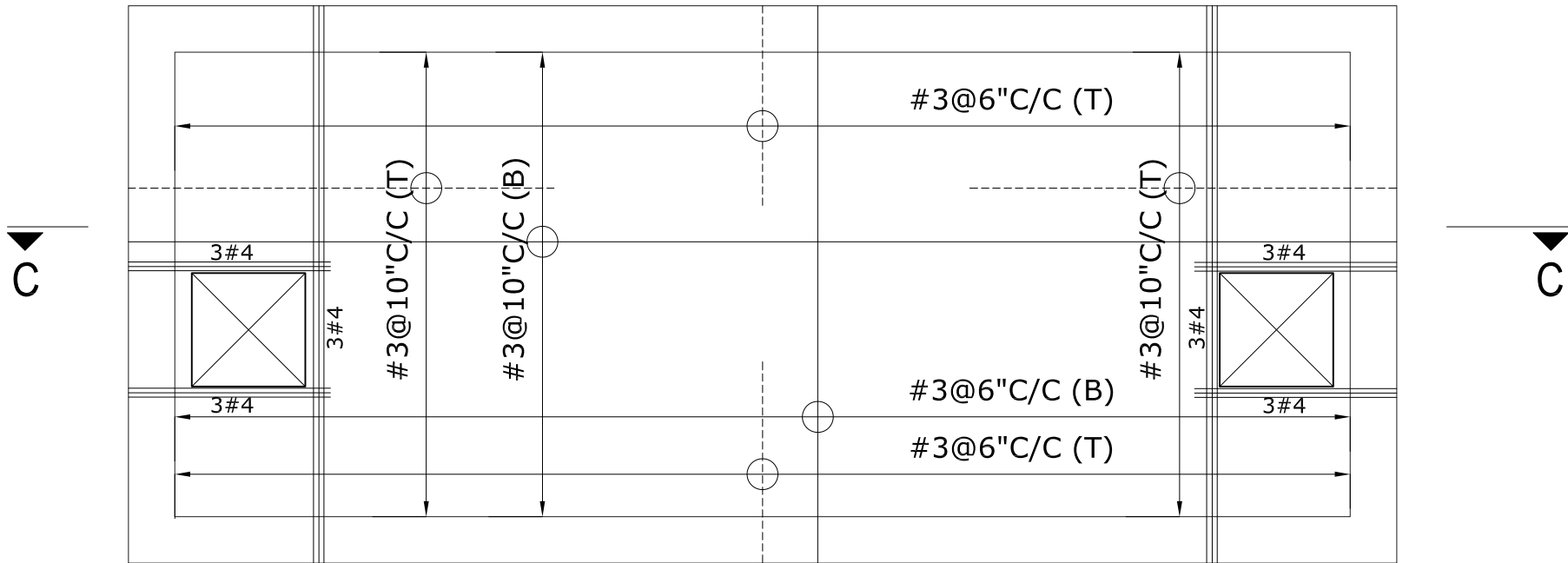
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

#### Detailed Structural Design Drawings

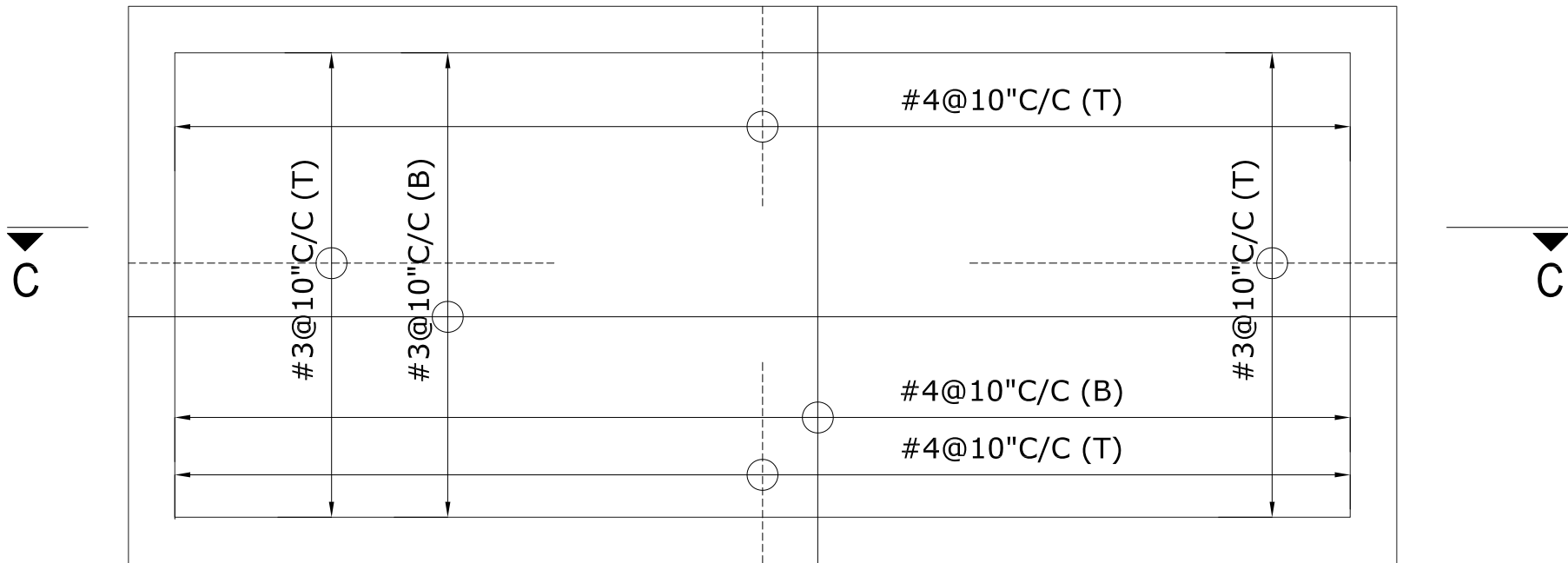
#### Sheet Name

#### OVER HEAD WATER TANK

|             |                                     |
|-------------|-------------------------------------|
| Date        | April, 2026                         |
| Scale       | NTS                                 |
| Drawn by    | Engr. ABDULLAH JAVAID (Civil/59178) |
| Checked by  | Engr M. Aamir (Civil/10584)         |
| Approved by | Engr. Dr M- Rizwan                  |
| Drawing No. | S-34                                |



TOP SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 5"

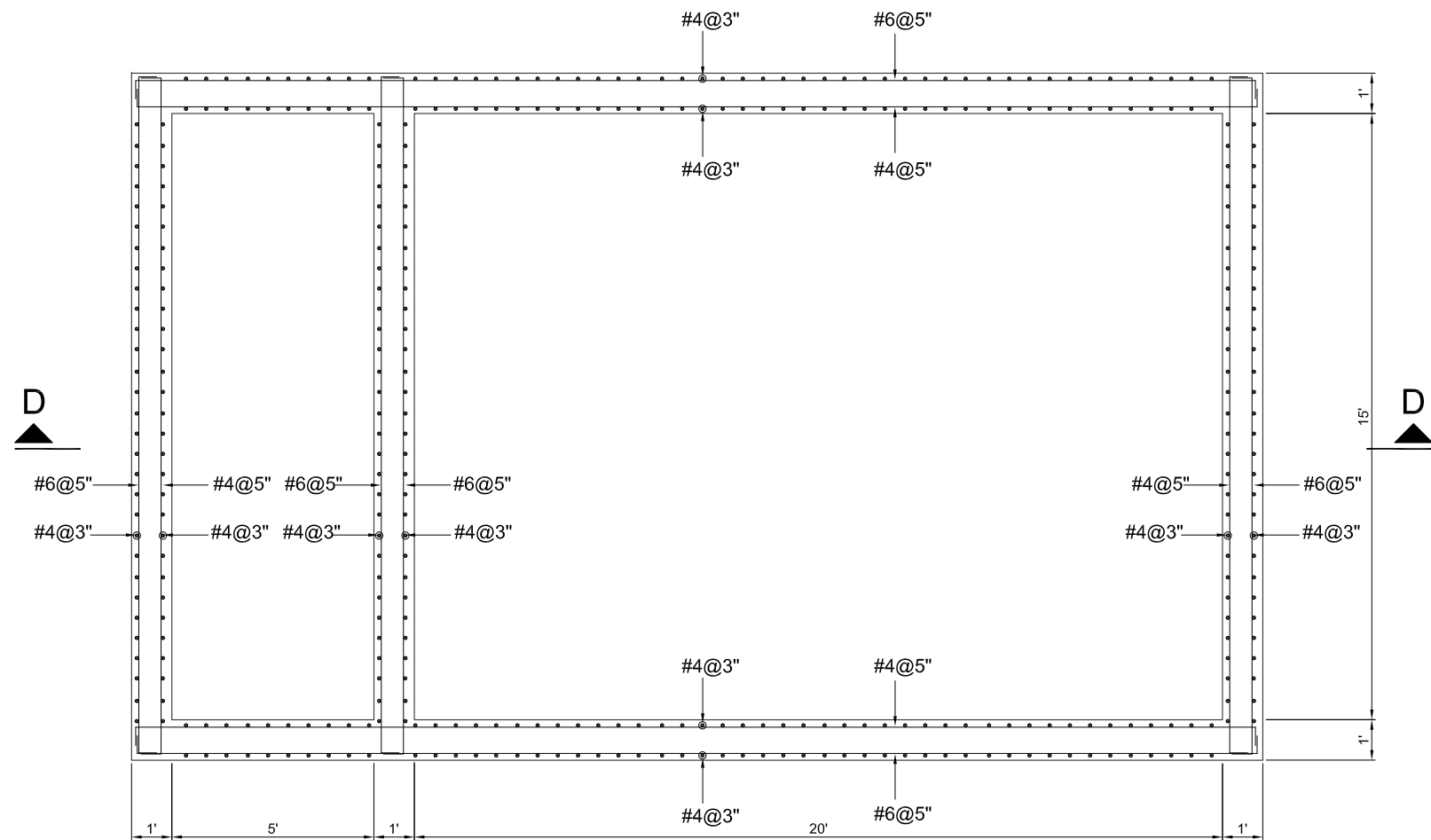


BASE SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 7"

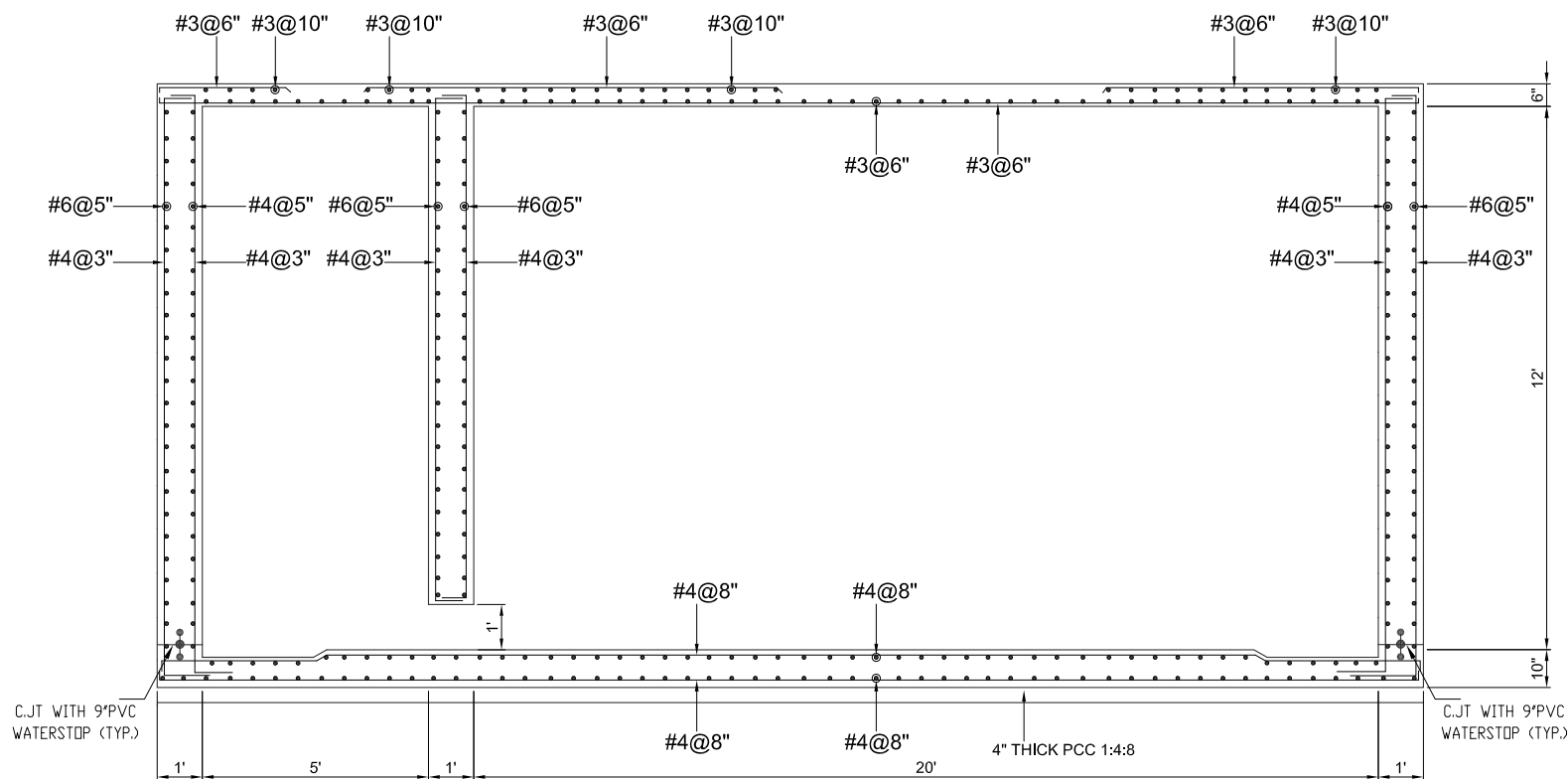
NOTE:  
-PROVIDE #3 @ 10" C/C DISTRIBUTION STEEL  
WITH TOP (NEGATIVE) REINFORCEMENT OF ALL SLABS  
-PROVIDE #6 BARS WITH BOTTOM REINFORCEMENT UNDER  
THE WALLS IF CONSTRUCTED DIRECTLY ON SLAB  
-ALT BOTTOM STEEL IS CURTAILED AT L/8 AND TOP STEEL IS CUT  
AT L/3 OF THE SPAN  
-CONSIDER CONTINUOUS AND DIS-CONTINUOUS EDGES WHILE  
LAYING TOP STEEL BARS  
-FOR DIS-CONTINUOUS EDGE, BEND THE END OF BARS WITHIN  
SLAB THICKNESS  
-FOR POSITIVE REINFORCEMENT, PLACE BARS ALONG LONGER SPAN  
ON TOP OF BARS PLACED ALONG SHORTER SPAN  
-BEAMS POSITIONS MAY BE ADJUSTED AS PER ARCHITECTURAL  
REQUIREMENT WITHOUT CHANGING BEAM COLUMN FRAME  
-BOTTOM BARS ARE REPRESENTED BY (B) AND TOP BARS BY (T)

ISSUE FOR TENDER

|                                                                                                                                                                                                                                                                                                                                                                              |                                        |
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| <b>CLIENT NAME</b>                                                                                                                                                                                                                                                                                                                                                           |                                        |
|                                                                                                                                                                                                                                                                                           |                                        |
| <b>MAIN CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <br>Anwar Ali Architects (Pvt.) Ltd.<br>Consulting,Architects,Engineers<br>Planners & Management Consultants<br>66 HBFC BLOCK A FAISAL TOWN LAHORE                                                                                                                                        |                                        |
| <b>JV MEMBERS</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
| <br>                                                                                                                                                                                                  |                                        |
| <b>STRUCTURAL CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                 |                                        |
| <br>AR ENGINEERS<br>Architects, Structural, Earthquake Engineering, Geo Technical,<br>Public Health, Highway, Electrical Design Solution.<br>Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore.<br>Ph: 042-35831906 03008813921, E-mail: arengineers78@gmail.com |                                        |
| <b>MEP CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                        |                                        |
|                                                                                                                                                                                                                                                                                                                                                                              |                                        |
| <b>Project Name</b>                                                                                                                                                                                                                                                                                                                                                          |                                        |
| Consultancy Services for<br>New Air Traffic Control Tower<br>(ATCT), Fire Station and Allied<br>Facilities at Skardu<br>International Airport                                                                                                                                                                                                                                |                                        |
| <b>Detailed Structural<br/>Design Drawings</b>                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Sheet Name</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
| <b>OVER HEAD WATER TANK</b>                                                                                                                                                                                                                                                                                                                                                  |                                        |
| Date                                                                                                                                                                                                                                                                                                                                                                         | April, 2026                            |
| Scale                                                                                                                                                                                                                                                                                                                                                                        | NTS                                    |
| Drawn by                                                                                                                                                                                                                                                                                                                                                                     | Engr. ABDULLAH JAVAID<br>(Civil/59178) |
| Checked by                                                                                                                                                                                                                                                                                                                                                                   | Engr M. Aamir<br>(Civil/10584)         |
| Approved by                                                                                                                                                                                                                                                                                                                                                                  | Engr. Dr M- Rizwan                     |
| Drawing No.                                                                                                                                                                                                                                                                                                                                                                  | S-35                                   |



REINFORCEMENT PLAN  
RAIN WATER HARVESTING TANK



SECTION D-D

ISSUE FOR TENDER

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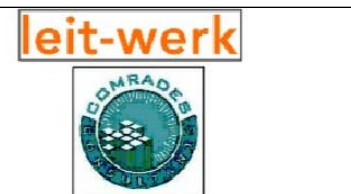
CLIENT NAME



MAIN CONSULTANT



JV MEMBERS



STRUCTURAL CONSULTANT



MEP CONSULTANT

Project Name

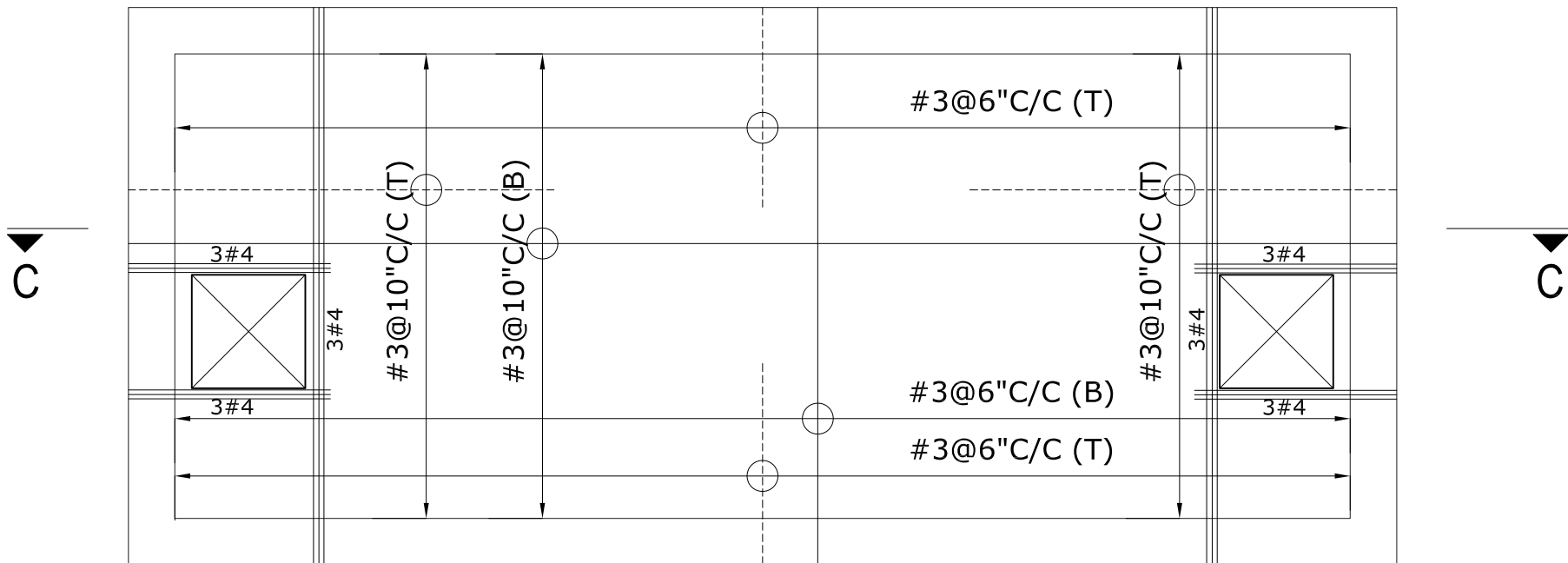
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

Detailed Structural Design Drawings

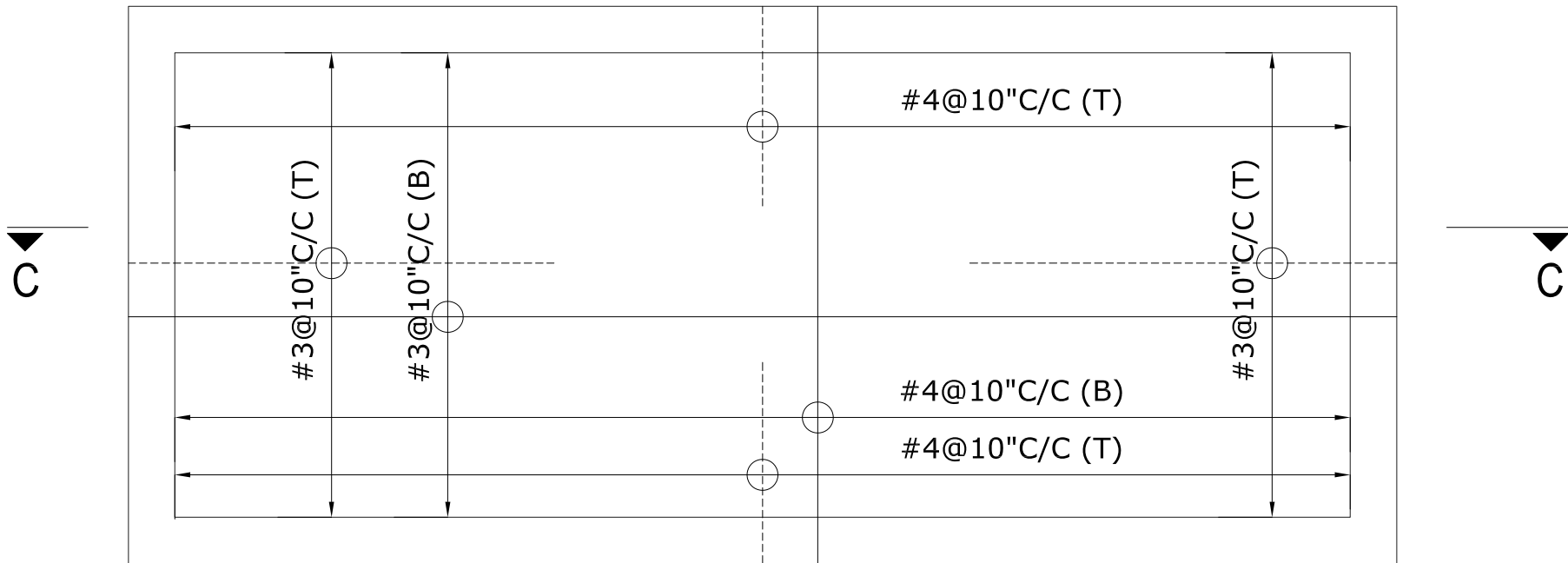
Sheet Name

RAIN WATER HARVEST TANK

|             |                                     |
|-------------|-------------------------------------|
| Date        | April, 2026                         |
| Scale       | NTS                                 |
| Drawn by    | Engr. ABDULLAH JAVAID (Civil/59178) |
| Checked by  | Engr M. Aamir (Civil/10584)         |
| Approved by | Engr. Dr M- Rizwan                  |
| Drawing No. | S-36                                |



TOP SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 5"

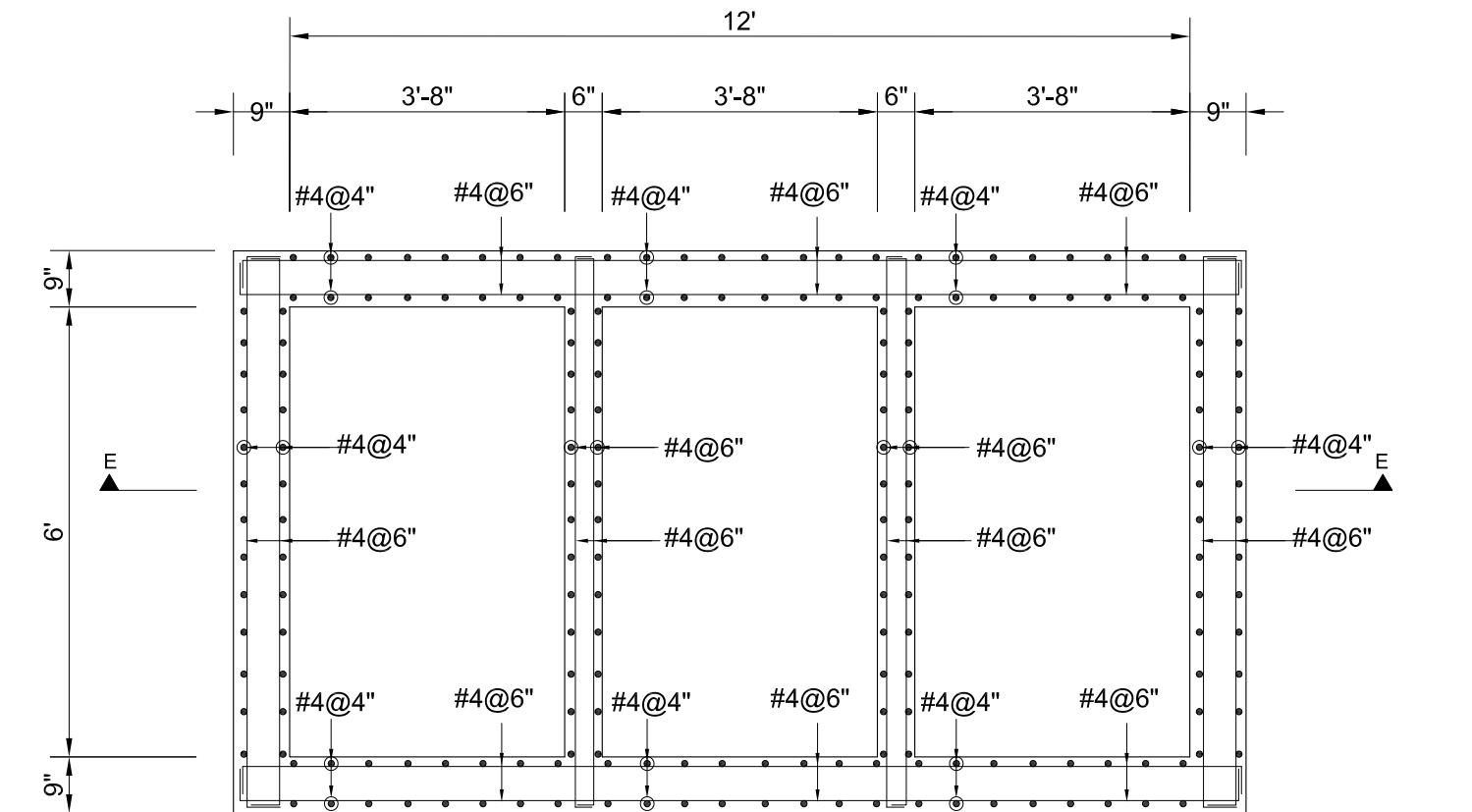


BASE SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 7"

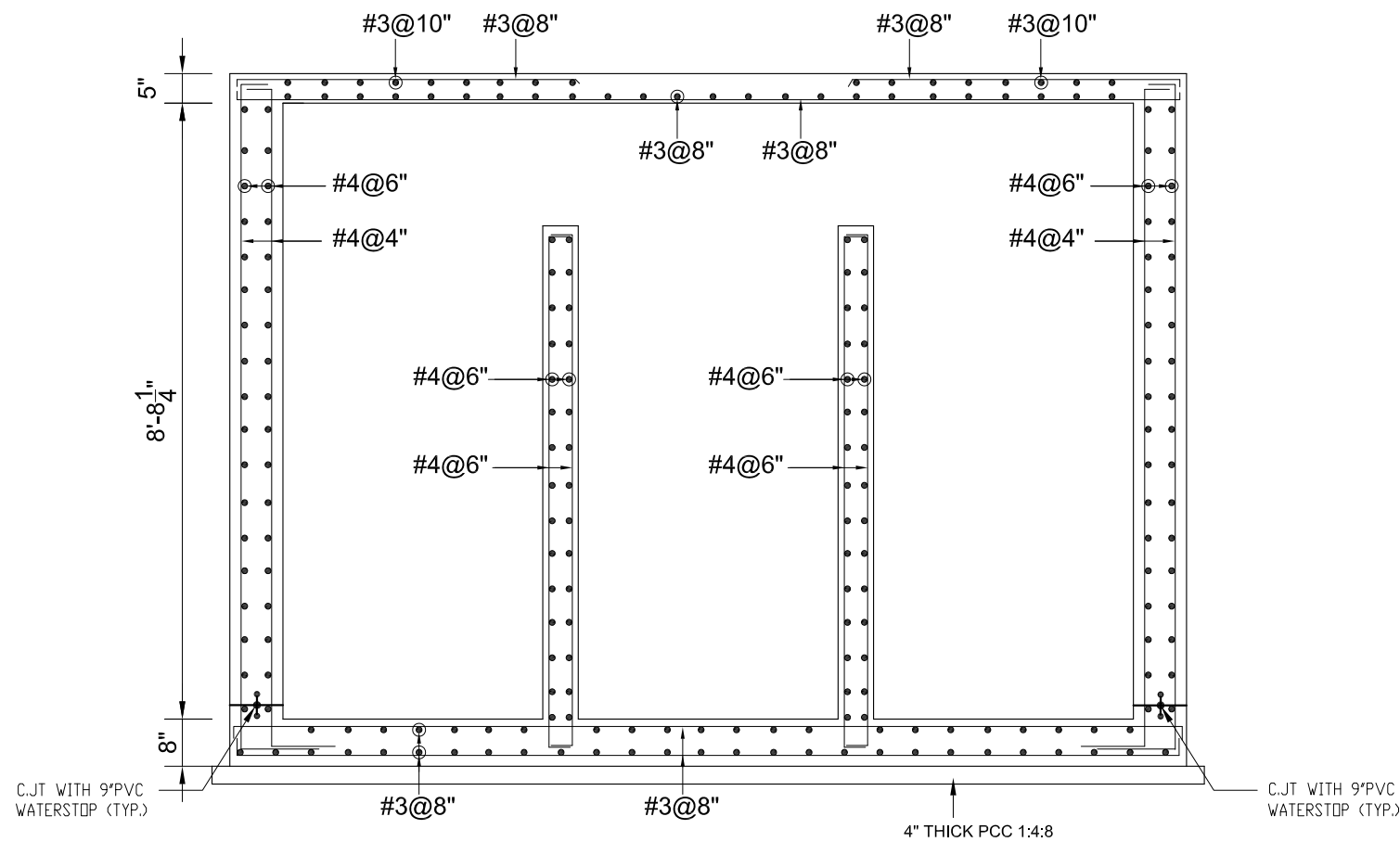
NOTE:  
-PROVIDE #3 @ 10" C/C DISTRIBUTION STEEL  
WITH TOP (NEGATIVE) REINFORCEMENT OF ALL SLABS  
-PROVIDE #6 BARS WITH BOTTOM REINFORCEMENT UNDER  
THE WALLS IF CONSTRUCTED DIRECTLY ON SLAB  
-ALT BOTTOM STEEL IS CURTAILED AT L/8 AND TOP STEEL IS CUT  
AT L/3 OF THE SPAN  
-CONSIDER CONTINUOUS AND DIS-CONTINUOUS EDGES WHILE  
LAYING TOP STEEL BARS  
-FOR DIS-CONTINUOUS EDGE, BEND THE END OF BARS WITHIN  
SLAB THICKNESS  
-FOR POSITIVE REINFORCEMENT, PLACE BARS ALONG LONGER SPAN  
ON TOP OF BARS PLACED ALONG SHORTER SPAN  
-BEAMS POSITIONS MAY BE ADJUSTED AS PER ARCHITECTURAL  
REQUIREMENT WITHOUT CHANGING BEAM COLUMN FRAME  
-BOTTOM BARS ARE REPRESENTED BY (B) AND TOP BARS BY (T)

ISSUE FOR TENDER

|                                                                                                                                                                                                                                                                                                                                                                              |                                        |
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| <b>CLIENT NAME</b>                                                                                                                                                                                                                                                                                                                                                           |                                        |
|                                                                                                                                                                                                                                                                                           |                                        |
| <b>MAIN CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                       |                                        |
| <br>Anwar Ali Architects (Pvt.) Ltd.<br>Consulting,Architects,Engineers<br>Planners & Management Consultants<br>66 HBFC BLOCK A FAISAL TOWN LAHORE                                                                                                                                        |                                        |
| <b>JV MEMBERS</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
| <br>                                                                                                                                                                                                  |                                        |
| <b>STRUCTURAL CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                 |                                        |
| <br>AR ENGINEERS<br>Architects, Structural, Earthquake Engineering, Geo Technical,<br>Public Health, Highway, Electrical Design Solution.<br>Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore.<br>Ph: 042-35831906 03008813921, E-mail: arengineers78@gmail.com |                                        |
| <b>MEP CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                        |                                        |
|                                                                                                                                                                                                                                                                                                                                                                              |                                        |
| <b>Project Name</b>                                                                                                                                                                                                                                                                                                                                                          |                                        |
| Consultancy Services for<br>New Air Traffic Control Tower<br>(ATCT), Fire Station and Allied<br>Facilities at Skardu<br>International Airport                                                                                                                                                                                                                                |                                        |
| <b>Detailed Structural<br/>Design Drawings</b>                                                                                                                                                                                                                                                                                                                               |                                        |
| <b>Sheet Name</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
| <b>RAIN WATER HARVEST TANK</b>                                                                                                                                                                                                                                                                                                                                               |                                        |
| Date                                                                                                                                                                                                                                                                                                                                                                         | April, 2026                            |
| Scale                                                                                                                                                                                                                                                                                                                                                                        | NTS                                    |
| Drawn by                                                                                                                                                                                                                                                                                                                                                                     | Engr. ABDULLAH JAVAID<br>(Civil/59178) |
| Checked by                                                                                                                                                                                                                                                                                                                                                                   | Engr M. Aamir<br>(Civil/10584)         |
| Approved by                                                                                                                                                                                                                                                                                                                                                                  | Engr. Dr M- Rizwan                     |
| Drawing No.                                                                                                                                                                                                                                                                                                                                                                  | S-37                                   |



REINFORCEMENT PLAN  
SEPTIC TANK



SECTION E-E

ISSUE FOR TENDER

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CLIENT NAME



MAIN CONSULTANT



JV MEMBERS



STRUCTURAL CONSULTANT



MEP CONSULTANT

Project Name

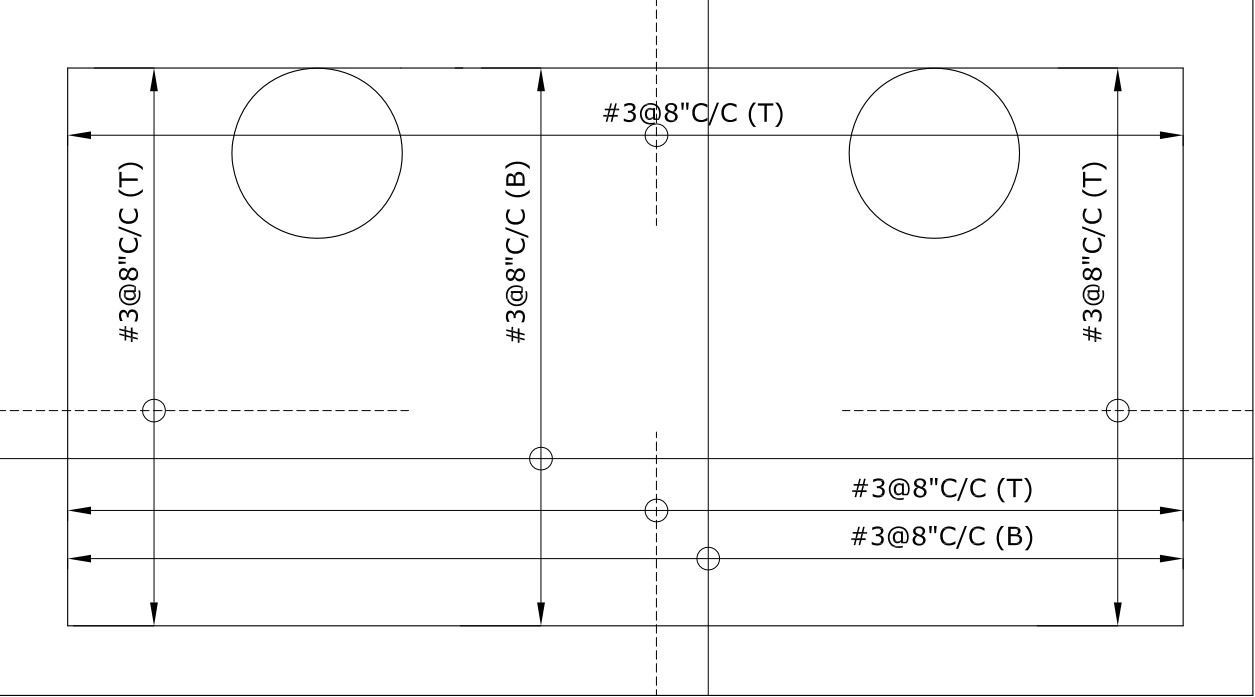
Consultancy Services for New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

Detailed Structural  
Design Drawings

Sheet Name

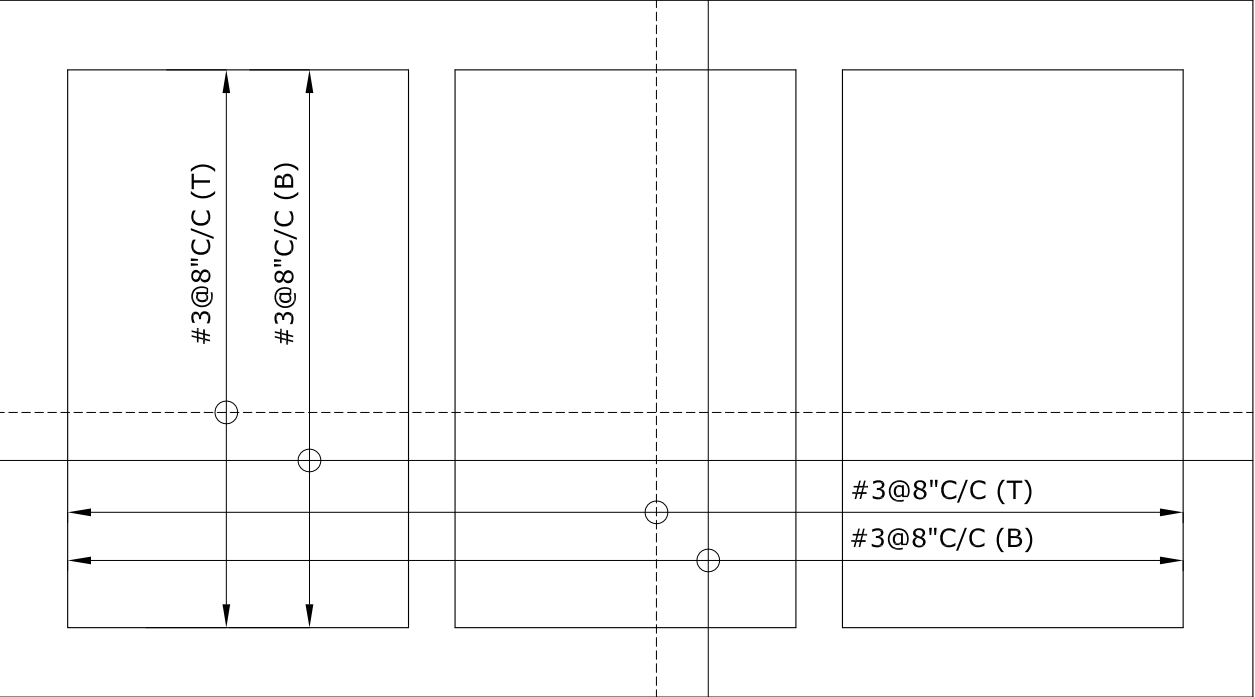
SEPTIC TANK

|             |                                        |
|-------------|----------------------------------------|
| Date        | April, 2026                            |
| Scale       | NTS                                    |
| Drawn by    | Engr. ABDULLAH JAVAID<br>(Civil/59178) |
| Checked by  | Engr M. Aamir<br>(Civil/10584)         |
| Approved by | Engr. Dr M- Rizwan                     |
| Drawing No. | S-38                                   |



TOP SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 5"

Note:  
Provide extra 3-#4 bars  
around manholes



BOTTOM SLAB REINFORCEMENT PLAN  
SLAB THICKNESS = 8"

NOTE:  
-PROVIDE #3 @ 10" C/C DISTRIBUTION STEEL  
WITH TOP (NEGATIVE) REINFORCEMENT OF ALL SLABS  
-PROVIDE 3#6 BARS WITH BOTTOM REINFORCEMENT UNDER  
THE WALLS IF CONSTRUCTED DIRECTLY ON SLAB  
-ALT BOTTOM STEEL IS CURTAILED AT L/8 AND TOP STEEL IS CUT  
AT L/3 OF THE SPAN  
-CONSIDER CONTINUOUS AND DIS-CONTINUOUS EDGES WHILE  
LAYING TOP STEEL BARS  
-FOR DIS-CONTINUOUS EDGE, BEND THE END OF BARS WITHIN  
SLAB THICKNESS  
-FOR POSITIVE REINFORCEMENT, PLACE BARS ALONG LONGER SPAN  
ON TOP OF BARS PLACED ALONG SHORTER SPAN  
-BEAMS POSITIONS MAY BE ADJUSTED AS PER ARCHITECTURAL  
REQUIREMENT WITHOUT CHANGING BEAM COLUMN FRAME  
-BOTTOM BARS ARE REPRESENTED BY (B) AND TOP BARS BY (T)

ISSUE FOR TENDER

|                                                                                                                                                                                                                                                                                                                                                                               |                                        |
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| <b>CLIENT NAME</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
|                                                                                                                                                                                                                                                                                            |                                        |
| <b>MAIN CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                        |                                        |
| <br>Anwar Ali Architects (Pvt.) Ltd.<br>Consulting,Architects,Engineers<br>Planners & Management Consultants<br>66 HBFC BLOCK A FAISAL TOWN LAHORE                                                                                                                                         |                                        |
| <b>JV MEMBERS</b>                                                                                                                                                                                                                                                                                                                                                             |                                        |
| <br>                                                                                                                                                                                                   |                                        |
| <b>STRUCTURAL CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                  |                                        |
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| <b>MEP CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                         |                                        |
| <b>Project Name</b>                                                                                                                                                                                                                                                                                                                                                           |                                        |
| Consultancy Services for<br>New Air Traffic Control Tower<br>(ATCT), Fire Station and Allied<br>Facilities at Skardu<br>International Airport                                                                                                                                                                                                                                 |                                        |
| <b>Detailed Structural<br/>Design Drawings</b>                                                                                                                                                                                                                                                                                                                                |                                        |
| <b>Sheet Name</b>                                                                                                                                                                                                                                                                                                                                                             |                                        |
| <b>SEPTIC TANK</b>                                                                                                                                                                                                                                                                                                                                                            |                                        |
| Date                                                                                                                                                                                                                                                                                                                                                                          | April, 2026                            |
| Scale                                                                                                                                                                                                                                                                                                                                                                         | NTS                                    |
| Drawn by                                                                                                                                                                                                                                                                                                                                                                      | Engr. ABDULLAH JAVAID<br>(Civil/59178) |
| Checked by                                                                                                                                                                                                                                                                                                                                                                    | Engr M. Aamir<br>(Civil/10584)         |
| Approved by                                                                                                                                                                                                                                                                                                                                                                   | Engr. Dr M- Rizwan                     |
| Drawing No.                                                                                                                                                                                                                                                                                                                                                                   | S-39                                   |

STRUCTURAL GENERAL NOTES

1. COORDINATION

- ALL WORK SHALL CONFORM TO MINIMUM STANDARDS OF UNIFORM BUILDING CODE-97 AND ACI-318-08
- DESIGN LOADS ARE IN ACCORDANCE WITH UBC 97 AND ASCE-7
- EVERY REASONABLE EFFORTS HAS BEEN MADE TO BOUND STRUCTURAL SPECIFICATIONS. SHOULD THERE BE ANY DESCREPANCIES, THE CONTRACTOR SHALL REQUEST A CLARIFICATION IN WRITING FROM THE ENGINEER
- ALL STRUCTURAL DRAWING SHOULD BE READ IN CONJUNCTION WITH ARCHITECTURAL AND OTHER RELEVANT DRAWINGS.
- STRUCTURAL DRAWINGS WILL GOVERN THE SIZE & LOCATION OF THE STRUCTURAL COMPONENTS OVER OTHER DRAWINGS

2. GENERAL

- THE CONTRACTOR SHALL REVIEW DRAWINGS AND DETERMINE THAT DIMENSIONS ARE COORDINATED BETWEEN ARCHITECTURAL AND, STRUCTURAL DRAWINGS PRIOR TO FABRICATION OR START OF CONSTRUCTION.
- NO STRUCTURAL MEMBER SHALL BE CUT, NOTCHED OR OTHERWISE REDUCED IN STRENGTH.
- THE CONTRACTOR SHALL COORDINATE ARCHITECTURAL & OTHER MECHANICAL, AND ELECTRICAL DRAWINGS FOR ANCHORED,EMBEDDED AND SUPPORTED ITEMS WHICH AFFECT THE STRUCTURAL DRAWINGS AND NOTIFY THE EGINEER OF ANY DISCREPANCY.
- ALL SECTIONS AND DETAILS WILL BE AS PER DETAILS GIVEN ON RESPECTIVE DRAWINGS. IN CASE OF ANY PROBELM IN UNDERSTANDING OF DETAILS CONTRACTOR SHOULD IMMEDIATELY REFER TO THE ENGINEER.
- ANY CONFLICTS BETWEEN THE SPECIFICATIONS AND DESIGN DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR BEFORE GOING FOR PURCHASE OF MATERIAL WILL ENSURE THAT THE SPECIFICATIONS HAVE BEEN UNDERSTOOD AND COMPARED WITH DRAWINGS. ANY DISCREPANCY WILL BE REPORTED TO ENGINEER BEFORE ACTUALLY GOING FOR PURCHASE

4. REINFORCED CONCRETE

- CONCRETE WORK SHALL CONFORM TO ACI 301 SPECIFCATION FOR STRUCTURAL CONCRTE FOR BUILDING (LATEST EDITION).
- STRUCTURAL DESIGN IS BASED ON THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE OF AMERICAN CONCRETE INSTITUTS (ACI 318-05).
- NO CONCRETING SHALL BE CARRIED OUT UNTIL PERMISSION IS GIVEN IN WRITING.
- CONCRETE SHALL HAVE A MINIMUM CYLINDRICAL COMPRESSIVE STRENGTH AT 28 DAYS AS FOLLOWS:

|                                                                                                                                             |                                                         |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------|
| RCC (1 : 1.5 : 3)                                                                                                                           | COLUMNS, LIFT WALLS, BEAMS & WATER RETAINING STRUCTURES | 4500 (f <sub>c</sub> ) |
| RCC (1 : 2 : 4)                                                                                                                             | SLABS, AND REMAINING MEMBERS                            | 3000 (f <sub>c</sub> ) |
| PCC (1 : 4 : 8)                                                                                                                             | WHERE SPECIFIED UNDER STRUCTURES                        | 1000 (f <sub>c</sub> ) |
| SPECIAL PROVISION:<br>APPROPRIATE TYPE OF PLASTICIZER, AS APPROVED BY SITE ENGINEER, CAN BE USED UP TO A QUANTITY OF 2% BY WEIGHT OF CEMENT |                                                         |                        |

- THE RATIOS MENTIONED ARE THE QUANTITIES SUFFICIENT FOR ACQUIRING REQUIRED STRENGTH. HOWEVER, THE ACTUAL QUANTTTIES WILL BE FINALIZED THROUGH MIX DESIGN, WHICH WILL BE CARRIED OUT AT CONTRACTORS COST. THE RESULTS WILL BE PRESENTED TO THE ENGINEER AT SITE WHO WILL COLLECT SAMPLES AND GET THE STRENGTH CONFIRMATION FROM HIS SOURCE AT CONTRACTORS COST.
- ALL DESIGN DETAIL, MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH RELEVANT ACl, ASTM, UBC CODES AND STANDARDS.
- ALL NON LOAD BEARING MASONARY WALLS SHALL BE PLACED AFTER THE REMOVAL OF FORM WORK.
- ALL SLABS WILL BE CAST MONOLITHIC WITH THEIR BEAMS AND OVER HANGS. HOWEVER, PARAPET WALLS AND ALL NON STRUCTURAL MEMBERS CAN BE CAST SUBSEQUENTLY. IN SUCH CASE STRENGTH GAIN OF PRIMARY COMPONENTS WILL BE ASCERTAINED.

5. REINFORCEMENT

1. REINFORCEMENT STEEL SHALL BE OF LOW ALLOY STEEL AS PER ASTM A615 HAVING MINIMUM YIELD STRENGTH OF 60,000 PSI. HOWEVER STIRRUPS CAN BE OF 40,000 PSI YIELD STRENGTH. FABRICATED STEEL BEAMS SHALL BE OF 36 KSI

2. TOP REINFORCEMENT BARS OF BEAMS TO BE CURTAILED AS SHOWN/REQUIRED.

3. ALL LAPS OF THE REINFORCEMENT SHOULD BE PROVIDED OUTSIDE HINGE ZONE

4. ALL REINFORCING STEEL SHALL BE ACCURATELY LOCATED IN THE FORMS AND HELD FIRMLY IN PLACE BEFORE & DURING THE PLACEMENT OF CONCRETE, BY MEANS OF WIRES AND SUPPORTS ADEQUATE TO PREVENT DISPLACEMENT DURING THE COURSE OF CONSTRUCTION.

5. MAINTAIN MINIMUM CONCRETE COVERAGE FOR REINFORCING STEEL AS FOLLOWS UNLESS OTHERWISE NOTED IN DRAWING.

| CLASS-C          | SLABS & FOOTINGS |
|------------------|------------------|
| COLUMNS          | = 1.5 inch       |
| BEAMS            | = 1.5 inch       |
| SLABS            | = 3/4 inch       |
| WALLS FRONT FACE | = 1 inch         |
| WALLS EARTH FACE | = 2 inch         |

6. SHUTTERING/ FORM WORK

- SHUTTERING FOR ALL PROJECTIONS SHALL BE INSTALLED AND REMOVED ALONG WITH SLAB. THE TYPE OF SHUTTERING WILL ALSO BE SAME AS FOR MAIN SLAB
- LOAD BEARING MASONARY WALLS SHALL BE BUILT BEFORE PLACING OF FORM WORK FOR SLAB / ROOF SLAB.

7. CONCRETE CONSTRUCTION

- ALL STRUCTURE SURFACES, AGAINST WHICH EARTH IS TO FILLED MAY BE COATED WITH TWO COATS OF HOT BITUMEN OF 10/20 GRADE AT THE RATE OF OF 0.4 lbs /Sft /coat. OTHER TREATMENTS AS PER DRAWINGS AND INSTRUCTION OF THE SITE ENGINEER SHALL ALSO BE EMPLOYED
- BEFORE CASTING OF ANY STRUCTURAL MEMBER. THE CONTRACTOR SHALL ENSURE THAT ALL EMBEDDED ITEM FOR ELECTRICAL, MECHANICAL, HVAC, PLUMBING STRUCTURAL STEEL AND OTHER WORKS ARE PROPERLY LOCATED AND FIRMLY SECURED IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE TO GET ALL EMBEDDED ITEMS CHECKED BY SITE ENGINEER BEFORE CASTING.

8. PARTITION WALLS

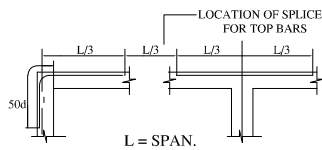
- THE PARTITION WALLS WILL CONSTRUCTED AS PER DRAWINGS. THE PARTITION WALLS WILL CONTAIN REINFORCEMENT WHERE SPECIFIED.

9. LOAD BEARING WALLS

- GENERALLY THE STRUCTURE HAS BEEN DESIGNED AS FRAME STRUCTURE. BUT WHERE LOAD BEARING WALLS HAVE BEEN SPECIFIED THESE WILL BE INSTALLED BEFORE THE INSTALLATION OF SHUTTERING. THE SPECIFICATION OF BEARING WALLS WILL BE STRICTLY FOLLOW.

10. LAP SPLICE

- SCHEDULE "I" APPLIES FOR THE FOLLOWING TYPES OF BARS,
  - BOTTOM HORIZONTAL BARS OF BEAMS AND WALLS.
  - TOP HORIZONTAL BARS OF SLABS 14" OR LESS IN DEPTH.
  - VERTICAL BARS.
- SCHEDULE "II" APPLIES FOR THE FOLLOWING TYPES OF BARS,
  - TOP HORIZONTAL BARS OF BEAMS.
  - TOP HORIZONTAL BARS OF SLABS GREATER THAN 14" DEEP.
  - ALL HORIZONTAL WALL REINFORCEMENT (EXCEPT BOTTOM BARS).
- ALL LAP SPLICES SHALL BE WIRED IN CONTACT.
- ALL LAP SPLICES SHALL BE CLASS B" U.N.O. IN CONTACT.
- ALL SPLICES OF WALL AND SLAB REINFORCEMENT SHALL BE STAGGERED AS NORMAL PRACTICE.
- THE LAP SPLICE LENGH FOR BIGGER BAR BE USED WHEN SPLICING TWO DIFFERENT SIZE BARS.
- ADJUSTMENT (S) TO GIVEN LAP LENGTHS.
- LAP LENGTHS GIVEN ARE FOR A CONCRETE COMPRESSIVE STRENGTH, f<sub>c</sub>, OF 3000 PSI & 3750 PSI NOTIFY ENGINEER FOR OTHER STRENGTHS
- IF REINFORCING IS SPECIFIED AS EPOXY COATED INCREASE LENGTHS BY 50%
- IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE LENGTHS BY 30%
- LAP LENGTHS SCHEDULE ASSUMES:
  - A. CLEAR COVER IS GREATER THAN BAR DIAMETER.
  - B. CLEAR SPACING BETWEEN BAR IS GREATER THAN 2 BAR DIAMETERS.
  - C.TRANSVERSE REINFORCEMENT INDEX, K<sub>tr</sub>,IS ZERO.
- IF EITHER CONDITION A OR B IS NOT MET, FOR A GIVEN BAR, INCREASE THE SCHEDULED LAP LENGTH BY 50%
- LAP LENGTH SCHEDULED ARE FOR Gr 60 REINFORCEMENT (f<sub>y</sub> = 60 k.s.i.).
  - (A) FOR BOTTOM BARS. LOCATE SPLICES OVER SUPPORTS UNO.
  - (B) TOP BARS, LOCATE SPLICES AT MID-SPAN. OR WITHIN CENTER



- ALL REINFORCING BARS TO BE FABRICATED AS PER THE BENDING SCHEDULES PREPARED BY THE CONTRACTOR AND CHECKED BY ENGINEER.
- THE ADDITIONAL QUANTITY OF STEEL AT LOCATION OF LAP SHALL NOT BE CONSIDERED SEPARATE FOR PAYMENT.
- IN CASE MINIMUM REQUIREMENT OF LAP IS NOT MET THE FIXED STEEL WILL BE REPLACED BY CORRECTED LENGTH AND SIZE AT THE COST OF CONTRACTOR.

NOTE:  
THE DESIGN PRESENTED HERE IS BASED ON THE SOIL REPORT AND DATA PROVIDED BY CLIENT. THE ACCURACY OF WHICH IS ENTIRE RESPONSIBILITY OF CLIENT.

EARTHQUAKE ZONE AS PER BUILDING CODE OF PAKISTAN 3

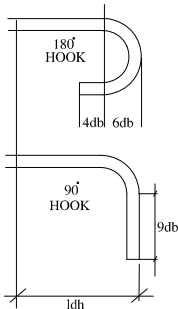
| SPLICE                   |            |            |         |         | LENGTHS                |            |            |         |         |
|--------------------------|------------|------------|---------|---------|------------------------|------------|------------|---------|---------|
| SCHEDULE I - BOTTOM BARS |            |            |         |         | SCHEDULE II - TOP BARS |            |            |         |         |
| f' c                     | 3000 p.s.i | 4500 p.s.i |         |         | f' c                   | 3000 p.s.i | 4500 p.s.i |         |         |
| BAR SIZE                 | CLASS A    | CLASS B    | CLASS A | CLASS B | BAR SIZE               | CLASS A    | CLASS B    | CLASS A | CLASS B |
| #3                       | 17"        | 22"        | 15"     | 20"     | #3                     | 22"        | 28"        | 20"     | 25"     |
| #4                       | 22"        | 29"        | 20"     | 26"     | #4                     | 29"        | 37"        | 26"     | 34"     |
| #5                       | 28"        | 36"        | 25"     | 32"     | #5                     | 36"        | 47"        | 32"     | 42"     |
| #6                       | 33"        | 43"        | 30"     | 39"     | #6                     | 43"        | 56"        | 39"     | 50"     |
| #7                       | 48"        | 63"        | 43"     | 56"     | #7                     | 63"        | 81"        | 56"     | 73"     |
| #8                       | 55"        | 72"        | 49"     | 64"     | #8                     | 72"        | 93"        | 64"     | 83"     |
| #9                       | 62"        | 81"        | 56"     | 72"     | #9                     | 81"        | 105"       | 72"     | 94"     |
| #10                      | 70"        | 91"        | 62"     | 80"     | #10                    | 91"        | 118"       | 80"     | 104"    |
| #11                      | 78"        | 101"       | 68"     | 88"     | #11                    | 101"       | 131"       | 88"     | 114"    |

SCHEDULE III - DEVELOPMENT LENGTH

| BAR DIA | F' c | 3000 PSI    |          | 4500 PSI    |          |
|---------|------|-------------|----------|-------------|----------|
|         |      | BOTTOM BARS | TOP BARS | BOTTOM BARS | TOP BARS |
| 3       | -    | 17          | 22       | 15          | 20       |
| 4       | -    | 22          | 29       | 20          | 26       |
| 5       | -    | 28          | 36       | 25          | 32       |
| 6       | -    | 33          | 43       | 30          | 39       |
| 7       | -    | 48          | 63       | 43          | 56       |
| 8       | -    | 55          | 72       | 49          | 64       |
| 9       | -    | 62          | 81       | 56          | 72       |
| 10      | -    | 69          | 90       | 62          | 80       |
| 11      | -    | 76          | 98       | 68          | 88       |

| BAR DIA | HOOKS |       |      |       |       |      |
|---------|-------|-------|------|-------|-------|------|
|         | 180°  |       |      | 90°   |       |      |
|         | ldh   | round | extn | ldh*  | ldh   | extn |
| 3       | 6.75  | 2.25  | 2.5  | 5.75  | 5.75  | 4.5  |
| 4       | 8.75  | 3     | 2.5  | 7.75  | 7.75  | 6    |
| 5       | 11    | 3.75  | 2.5  | 9.75  | 9.75  | 7.5  |
| 6       | 13.25 | 4.5   | 3    | 11.5  | 11.5  | 9    |
| 7       | 15.5  | 5.25  | 3.5  | 13.5  | 13.5  | 10.5 |
| 8       | 17.5  | 6     | 4    | 15.5  | 15.5  | 12   |
| 9       | 19.75 | 6.75  | 4.5  | 17.25 | 17.25 | 13.5 |

ldh\* = when cover is not less then 2.5 inches



GENERAL NOTES  
INSTRUCTIONS TO CONTRACTOR

NOTES:

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Detailed Architectural  
Design Drawings

CLIENT NAME

MAIN CONSULTANT



JV MEMBERS

STRUCTURAL CONSULTANT



MEP CONSULTANT

Project Name

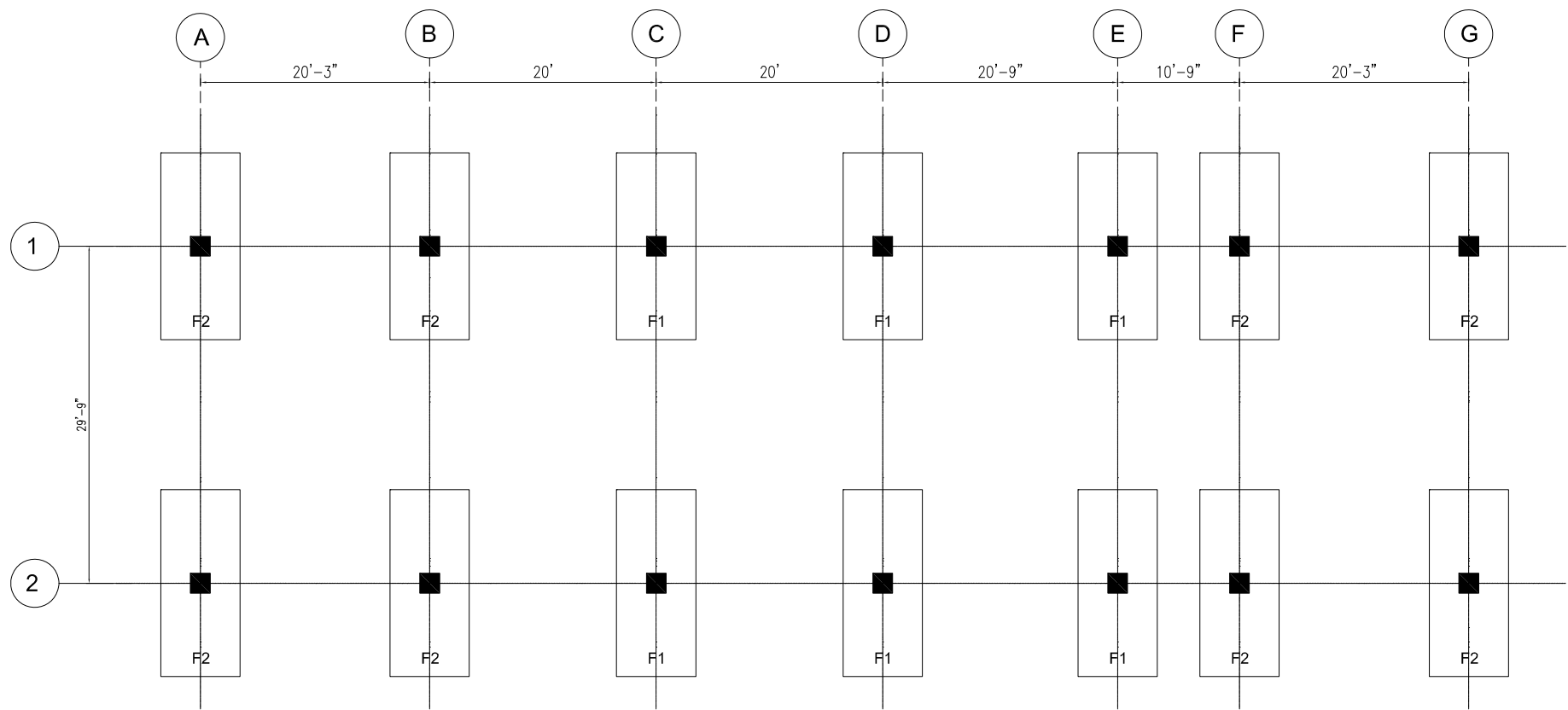
Consultancy Services for the Preparation of Detailed Design, Procurement Support and Construction Supervision of New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

Sheet Name

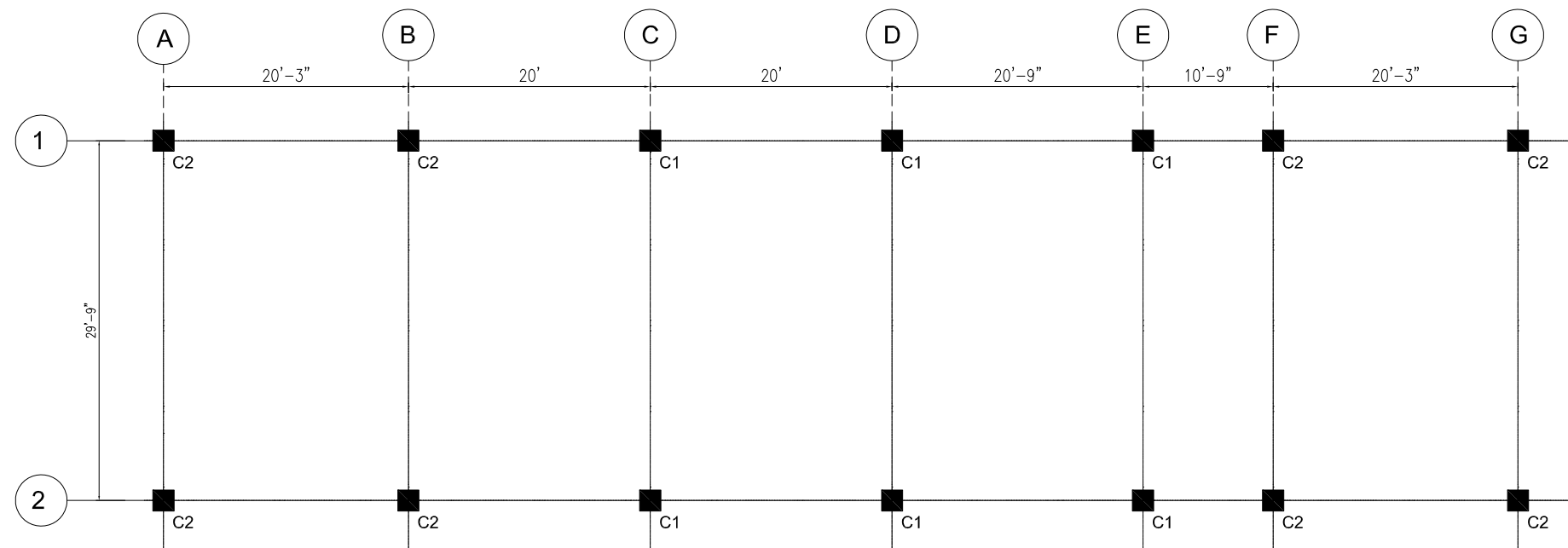
GENERAL NOTES

|             |                    |
|-------------|--------------------|
| Date        | November, 2025     |
| Scale       | NTS                |
| Drawn by    | Abdullah           |
| Checked by  | Engr M. Aamir      |
| Approved by | Engr. Ur M- Rizwan |
| Drawing No. | S-01U              |

ISSUE FOR TENDER



FOUNDATIONS & PILES LAYOUT PLAN



COLUMNS LAYOUT PLAN

ISSUE FOR TENDER

#### NOTES:

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#### Detailed Architectural Design Drawings

#### CLIENT NAME

#### MAIN CONSULTANT



#### JV MEMBERS

#### STRUCTURAL CONSULTANT



#### MEP CONSULTANT

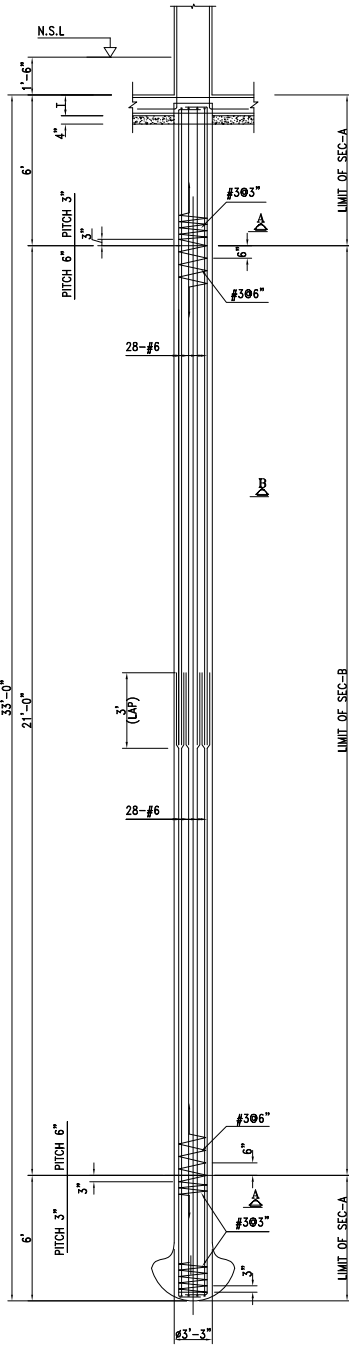
#### Project Name

Consultancy Services for the Preparation of Detailed Design, Procurement Support and Construction Supervision of New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

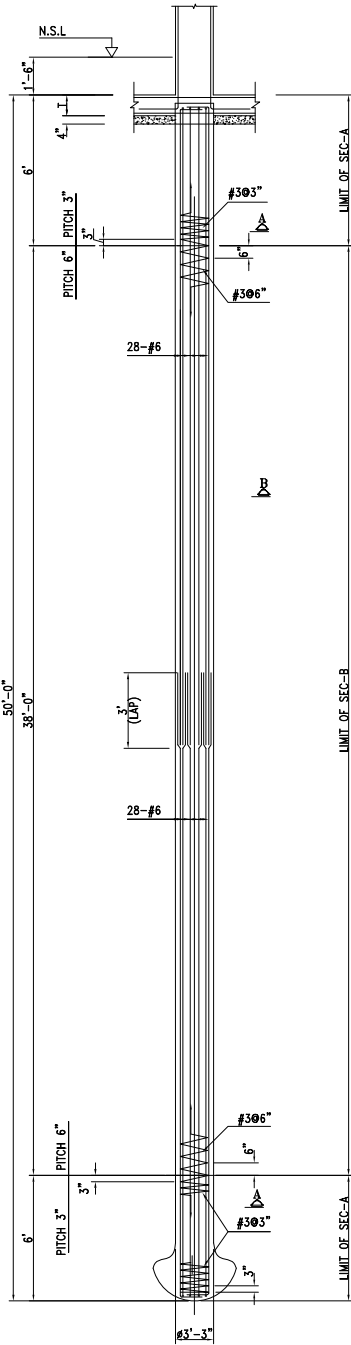
#### Sheet Name

PILES, FOUNDATIONS, COLUMNS LAYOUT PLAN

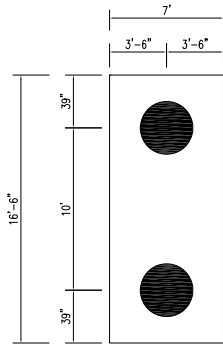
|             |                    |
|-------------|--------------------|
| Date        | November, 2025     |
| Scale       | NTS                |
| Drawn by    | Abdullah           |
| Checked by  | Engr M. Aamir      |
| Approved by | Engr. Dr M- Rizwan |
| Drawing No. | S-02U              |



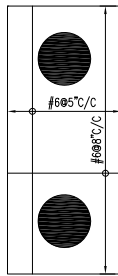
TYP SEC OF PILE  
FOUNDATION F2



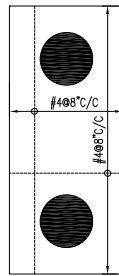
TYP SEC OF PILE  
FOUNDATION F1



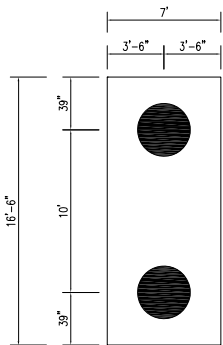
FOUNDATION F1 PILES  
LAYOUT PLAN  
SLAB THICKNESS = 24"



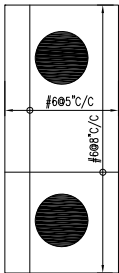
FOUNDATION F1 BOTTOM  
REINFORCEMENT PLAN  
SLAB THICKNESS = 24"



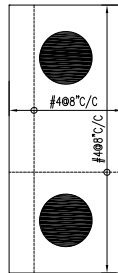
FOUNDATION F1 TOP  
REINFORCEMENT PLAN  
SLAB THICKNESS = 24"



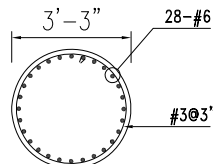
FOUNDATION F2 PILES  
LAYOUT PLAN  
SLAB THICKNESS = 18"



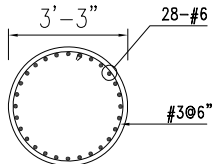
FOUNDATION F2 BOTTOM  
REINFORCEMENT PLAN  
SLAB THICKNESS = 18"



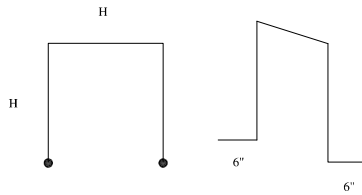
FOUNDATION F2 TOP  
REINFORCEMENT PLAN  
SLAB THICKNESS = 18"



SECTION A-A



SECTION B-B



IN ORDER TO SUPPORT NEGATIVE REINFORCEMENT MESH,  
PROVIDE TIES USING #4 BARS AT 2' SPACING.

## NOTES:

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## Detailed Architectural Design Drawings

## CLIENT NAME

## MAIN CONSULTANT



## JV MEMBERS

## STRUCTURAL CONSULTANT



## MEP CONSULTANT

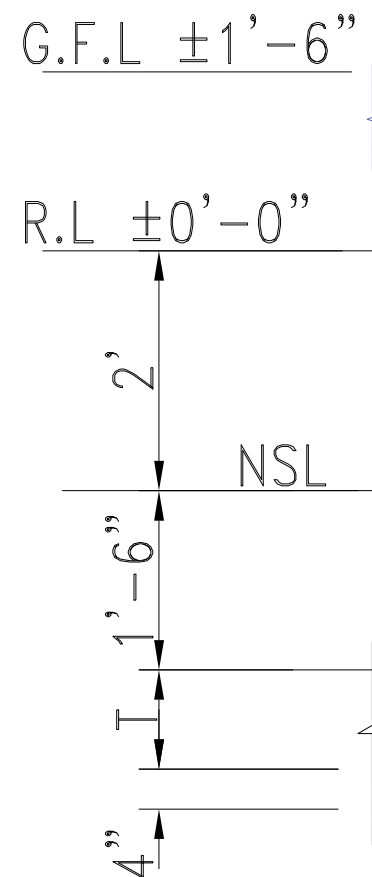
## Project Name

Consultancy Services for the Preparation of Detailed Design, Procurement Support and Construction Supervision of New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport

## Sheet Name

PILES, FOUNDATIONS, DETAIL

|             |                    |
|-------------|--------------------|
| Date        | November, 2025     |
| Scale       | NTS                |
| Drawn by    | Abdullah           |
| Checked by  | Engr M. Aamir      |
| Approved by | Engr. Dr M- Rizwan |
| Drawing No. | S-03U              |



|                  |        |        |        |        |        |        |   |   |   |
|------------------|--------|--------|--------|--------|--------|--------|---|---|---|
| S<br>C           | C<br>□ | H<br>L | E<br>U | D<br>M | U<br>N | L<br>S | E | □ | F |
| FLOOR'S          | COL. 1 | COL. 2 |        |        |        |        |   |   |   |
| UP TO<br>GF SLAB |        |        |        |        |        |        |   |   |   |

ISSUE FOR TENDER

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## Detailed Architectural Design Drawings

**CLIENT NAME**

## MAIN CONSULTANT



## JV MEMBERS

## STRUCTURAL CONSULTANT



## MEP CONSULTANT

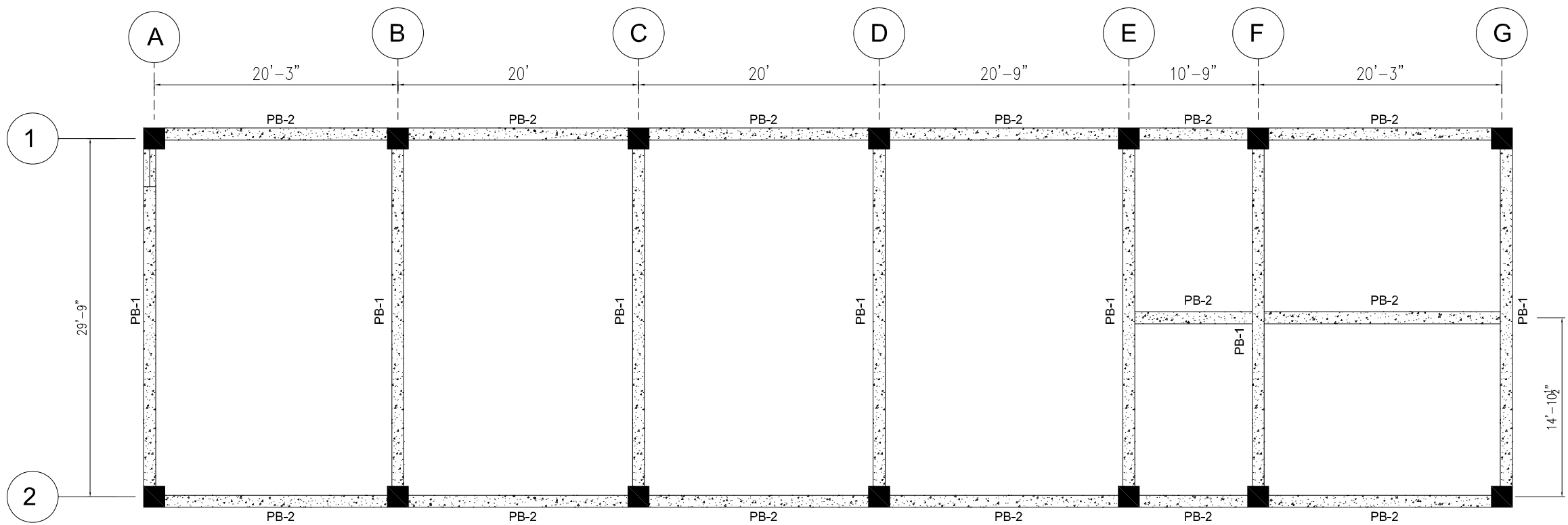
## Project Name

**Consultancy Services for the Preparation of Detailed Design, Procurement Support and Construction Supervision of New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport**

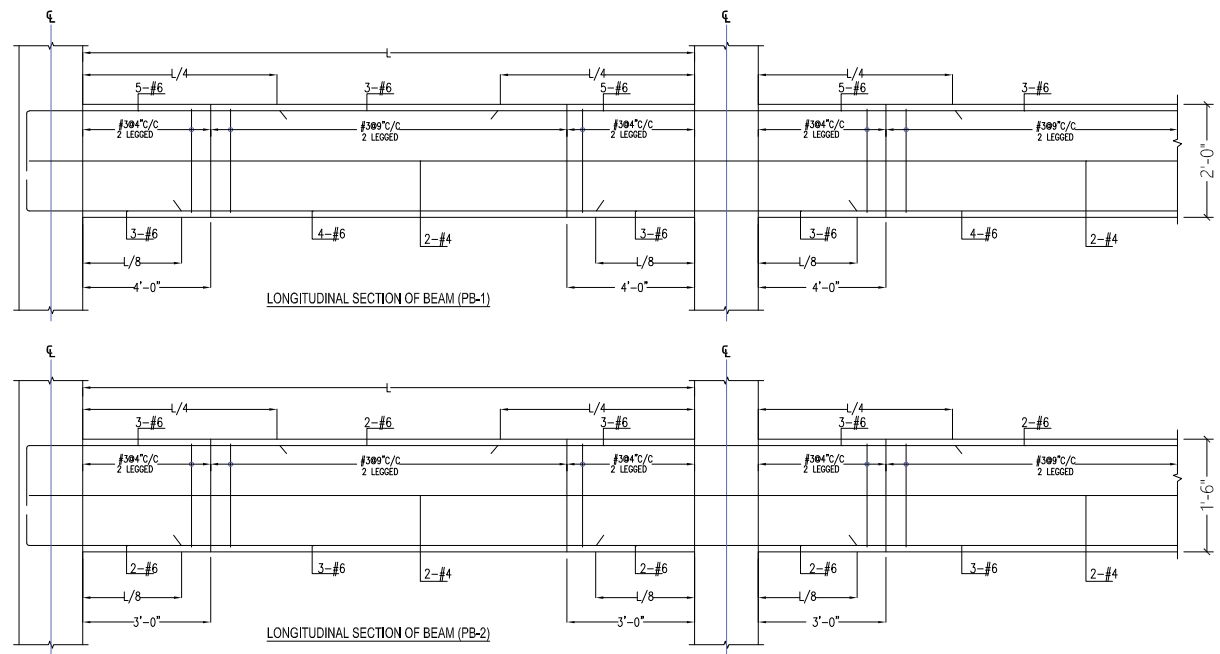
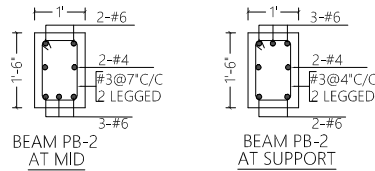
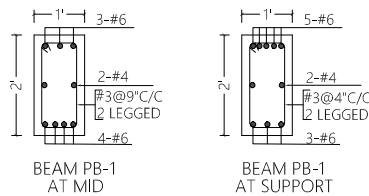
## Sheet Name

COLUMNS & FOUND. DETAIL

|             |                    |
|-------------|--------------------|
| Date        | November, 2025     |
| Scale       | NTS                |
| Drawn by    | Abdullah           |
| Checked by  | Engr M. Aamir      |
| Approved by | Engr. Dr M- Rizwan |
| Drawing No. | S-04 U             |



PLINTH BEAMS LAYOUT PLAN



ISSUE FOR TENDER

|                                                                                                                                                                                                                                                                                                                                                                                   |                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
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| <b>Detailed Architectural Design Drawings</b>                                                                                                                                                                                                                                                                                                                                     |                    |
| <b>CLIENT NAME</b>                                                                                                                                                                                                                                                                                                                                                                |                    |
| <b>MAIN CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                            |                    |
| <br>Anwar Ali Architects (Pvt.) Ltd.<br>Consulting Architects,Engineers<br>Planners & Management Consultants<br>06 HBF C BLOCK A FAISAL TOWN LAHORE                                                                                                                                            |                    |
| <b>JV MEMBERS</b>                                                                                                                                                                                                                                                                                                                                                                 |                    |
| <b>STRUCTURAL CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                      |                    |
| <br><b>AR ENGINEERS</b><br>Architects, Structural, Earthquake Engineering, Geo Technical, Public Health, Highway, Electrical Design Solution.<br>Office # 4, 2nd Floor,Sultana Arcade Firdous Market, Gulberg-III, Lahore.<br>Ph: 042-35831906 03008813921, E-mail: arengineers786@gmail.com |                    |
| <b>MEP CONSULTANT</b>                                                                                                                                                                                                                                                                                                                                                             |                    |
| <b>Project Name</b>                                                                                                                                                                                                                                                                                                                                                               |                    |
| Consultancy Services for the Preparation of Detailed Design, Procurement Support and Construction Supervision of New Air Traffic Control Tower (ATCT), Fire Station and Allied Facilities at Skardu International Airport                                                                                                                                                         |                    |
| <b>Sheet Name</b>                                                                                                                                                                                                                                                                                                                                                                 |                    |
| PLINTH BEAMS DETAIL                                                                                                                                                                                                                                                                                                                                                               |                    |
| Date                                                                                                                                                                                                                                                                                                                                                                              | November, 2025     |
| Scale                                                                                                                                                                                                                                                                                                                                                                             | NTS                |
| Drawn by                                                                                                                                                                                                                                                                                                                                                                          | Abdullah           |
| Checked by                                                                                                                                                                                                                                                                                                                                                                        | Engr M. Aamir      |
| Approved by                                                                                                                                                                                                                                                                                                                                                                       | Engr. Dr M- Rizwan |
| Drawing No.                                                                                                                                                                                                                                                                                                                                                                       | S-05 U             |