

"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"



VICE CHANCELLOR RESIDENCE TENDER DRAWINGS MARCH, 2022

DESIGN BY



NEW VISION ENGINEERING CONSULTANT

HEAD OFFICE:

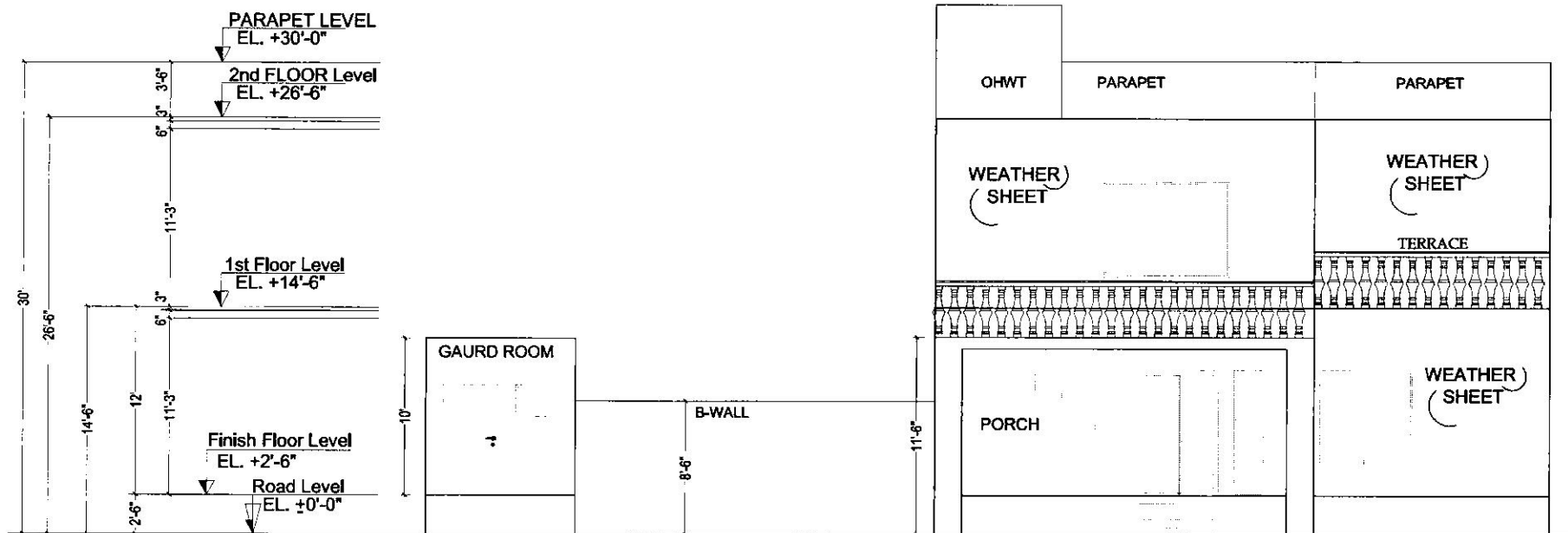
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REGIONAL OFFICE:

287-A Street # 06 Cavalry
Ground Cantt. Lahore.

Ph: +92-42-37250130,



E1 ELEVATION E1

ADDITION & REVISION				
NO.	DATE	DESCRIPTION	BY	CHK.

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PROJECT:		CLIENT:	
"PROVISION OF MISSING FACILITIES FOR THE SHAHH AYAZ UNIVERSITY SHIKARPUR"		SHAHH AYAZ UNIVERSITY SHIKARPUR	
FILE:	ELEVATION E-2	DESIGNED BY:	APPROVED BY:
		AS/AMM	DATE :
			MAR. 2020
		DRAWN BY:	SCALE:
		SUPV:	AS/AMM
SMD, INC.		AP-06	

STRUCTURAL NOTES

GENERAL TECHNICAL NOTES

- Figured dimensions are to be followed.
- Class "A" kiln burnt brick with minimum crushing strength of 2000 PSI should be used & joint at end should be sloppy. Vertical tooled joint at corners are prohibited.
- A steel G-60 deformed steel should be used in beams footings slabs and water retaining structures, in columns, for all diameters.
- All steel should be checked for its quality and placement DETAIL, as shown in drawings.
- Extra care is required for proper placement of top reinforcement at support sections and cantilevers.
- Dotted bars designate top reinforcement.
- Provide L-shaped end hooks for all bars at discontinuous ends in footings, walls, beams and slabs as shown in drawings.
- Lap length should be followed As except specified:-
 - 1" ϕ = 60"
 - 3/4" ϕ = 45"
 - 5/8" ϕ = 36"
 - 1/2" ϕ = 30"
 - 3/8" ϕ = 23"
- Provide 3/8" dia at 12" c/c as distribution steel if not shown in drawings.
- Minimum concrete cover.
 - Footing = 2"
 - Slabs = 3/4"
 - Beams = 1 1/2"
 - Columns = 1 1/2"
 - Water tank and retaining wall = 3/4"
 - Water/earth face or exposed to weather = 2"
 - Other faces = 1"
- All footing should be taken below the original Ground Level to achieve the minimum depth as shown in drawings. Footing should not be placed on uncompacted fill area.
- All drawings should be read in conjunction with Architectural Drawings.
- Contractor will co-ordinate all drawings such as architectural, structural, electrical, mechanical, water supply, drainage etc. before execution of work.
- Standard ACI 318, Astm C 33 and Astm A-615 use for structural concrete
- Fine modulus of fine aggregate varies from 2- 3.5mm
For concrete use 2.9- 3.2mm
For plaster use 2.2- 3.6mm

QUALITY OF CONCRETE

- FOOTINGS & RETAINING WALLS.
Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)

COLUMNS.

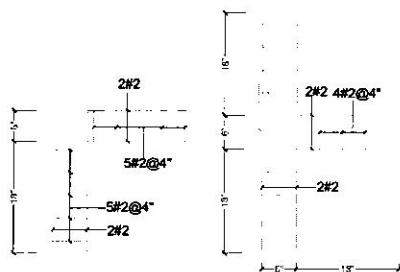
Minimum concrete compressive strength for 6"x12" cylinder to be 4000 psi at 28 days age. Concrete Nominal Mix to be 1:1 1/2:3 or more rich to provide specified strength

BEAMS, RIBS & SLABS.

- Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix to be 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)
- Use of plasticizers recommended to reduce the water cement ratio and increase workability of concrete.
- All concrete mixes to be used, should be got designed & approved before execution of work.
- Quality, size and gradation of aggregates (fine & coarse) as used during the mix design, should be strictly adhered with.
- The Design is in accordance with Seismic Zone 2A.

NOTES

- ALL LAYOUT DIMENSIONS AND F.FLOOR LEVELS TO BE AS PER ARCH DRAWING.
- PROVIDE PLINTH BEAM PB AT PLINTH LEVEL, WALL BEAMS AT SLAB LEVEL.
- PROVIDE #2 DOUBLE-LEG TIE BARS AT 12" CENTRES AT COMMON JOINT BETWEEN WALLS AND COLUMNS. THESE BARS SHOULD PASS INTO WALLS ON EACH SIDE OF COLUMNS.



PLAN OF BRICK WALL TIE FOR CORNER JOINT

PLAN OF BRICK WALL TIE FOR T-JOINT

REINFORCING STEEL

NO.	DESCRIPTION	UNIT	QTY
1	20mm dia. bars	M	1.00
2	16mm dia. bars	M	1.00
3	12mm dia. bars	M	1.00
4	8mm dia. bars	M	1.00
5	6mm dia. bars	M	1.00
6	4mm dia. bars	M	1.00
7	3mm dia. bars	M	1.00
8	2mm dia. bars	M	1.00
9	1mm dia. bars	M	1.00
10	0.5mm dia. bars	M	1.00
11	0.25mm dia. bars	M	1.00
12	0.125mm dia. bars	M	1.00
13	0.0625mm dia. bars	M	1.00
14	0.03125mm dia. bars	M	1.00
15	0.015625mm dia. bars	M	1.00
16	0.0078125mm dia. bars	M	1.00
17	0.00390625mm dia. bars	M	1.00
18	0.001953125mm dia. bars	M	1.00
19	0.0009765625mm dia. bars	M	1.00
20	0.00048828125mm dia. bars	M	1.00
21	0.000244140625mm dia. bars	M	1.00
22	0.0001220703125mm dia. bars	M	1.00
23	0.00006103515625mm dia. bars	M	1.00
24	0.000030517578125mm dia. bars	M	1.00
25	0.0000152587890625mm dia. bars	M	1.00
26	0.00000762939453125mm dia. bars	M	1.00
27	0.000003814697265625mm dia. bars	M	1.00
28	0.0000019073486328125mm dia. bars	M	1.00
29	0.00000095367431640625mm dia. bars	M	1.00
30	0.000000476837158203125mm dia. bars	M	1.00
31	0.0000002384185791015625mm dia. bars	M	1.00
32	0.00000011920928955078125mm dia. bars	M	1.00
33	0.000000059604644775390625mm dia. bars	M	1.00
34	0.0000000298023223876953125mm dia. bars	M	1.00
35	0.00000001490116119384765625mm dia. bars	M	1.00
36	0.000000007450580596923828125mm dia. bars	M	1.00
37	0.0000000037252902984619140625mm dia. bars	M	1.00
38	0.00000000186264514923095703125mm dia. bars	M	1.00
39	0.000000000931322574615478515625mm dia. bars	M	1.00
40	0.0000000004656612873077392578125mm dia. bars	M	1.00
41	0.00000000023283064365386962890625mm dia. bars	M	1.00
42	0.000000000116415321826934814453125mm dia. bars	M	1.00
43	0.0000000000582076609134674072265625mm dia. bars	M	1.00
44	0.00000000002910383045673370361328125mm dia. bars	M	1.00
45	0.000000000014551915228366851806640625mm dia. bars	M	1.00
46	0.0000000000072759576141834259033203125mm dia. bars	M	1.00
47	0.00000000000363797880709171295166015625mm dia. bars	M	1.00
48	0.000000000001818989403545856475830078125mm dia. bars	M	1.00
49	0.0000000000009094947017729282379150390625mm dia. bars	M	1.00
50	0.00000000000045474735088641191895751953125mm dia. bars	M	1.00



BAR SPACING IN BEAM

VERTICAL BAR SPACING

ENGINEER'S SIGNATURE
SEAL
DATE

APPROVED BY
SEAL
DATE

PROJECT NO.
SHEET NO.
DATE

GENERAL NOTES

"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"



GUEST HOUSE TENDER DRAWINGS MARCH, 2022

DESIGN BY



NEW VISION ENGINEERING CONSULTANT

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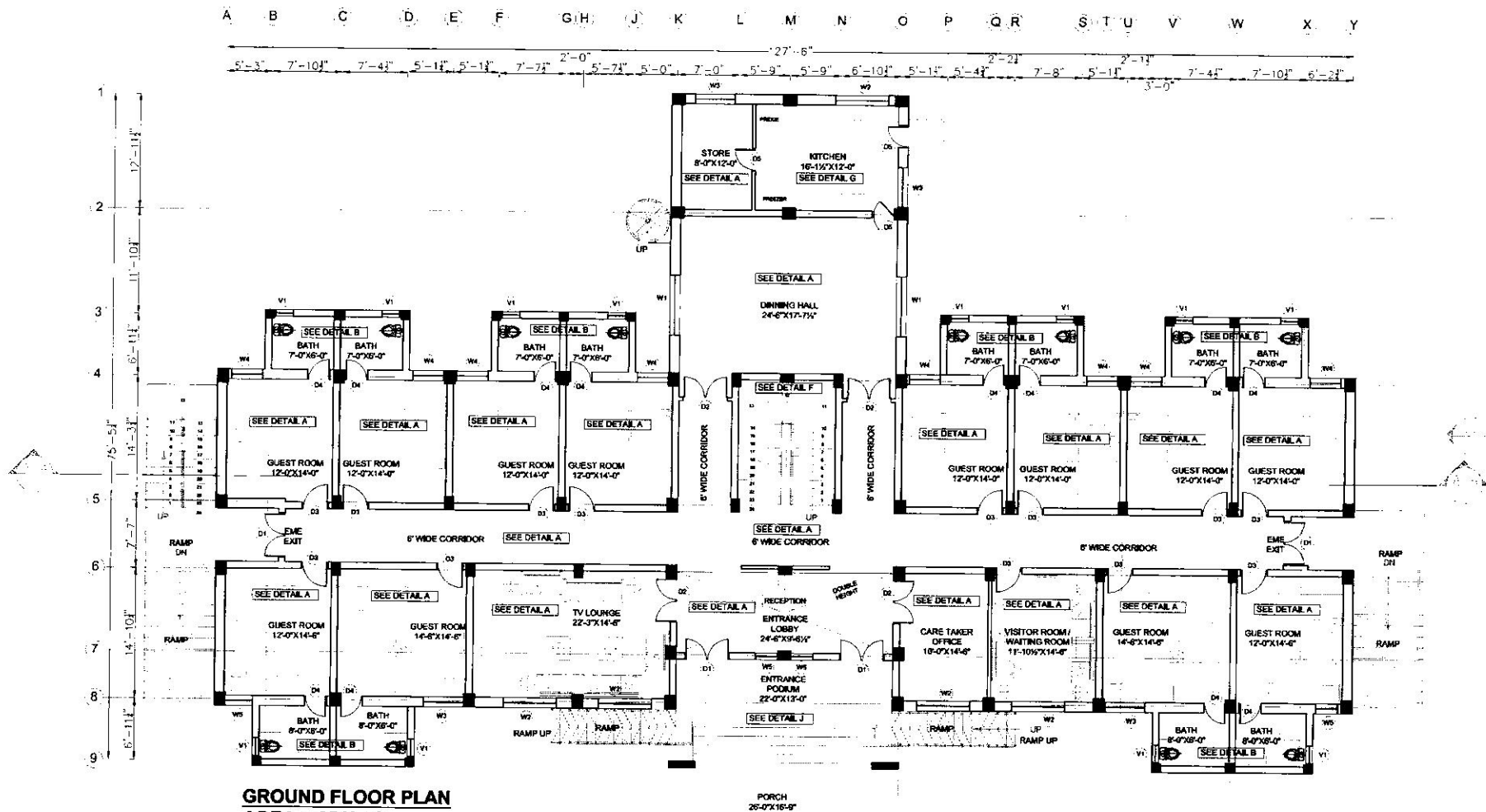
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ADDITION & REVISION				
NO.	DATE	BY	REVISION	APPROVED



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PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
 SHAIKH ATAZ UNIVERSITY SHIKARPUR"

TITLE:

GROUND FLOOR PLAN

CLIENT:

SHAIKH ATAZ UNIVERSITY SHIKARPUR

DESIGNED BY:

APPROVED BY:

DATE:

DRAWN BY:

JOB NO.

SCALE:

DRAWN BY:

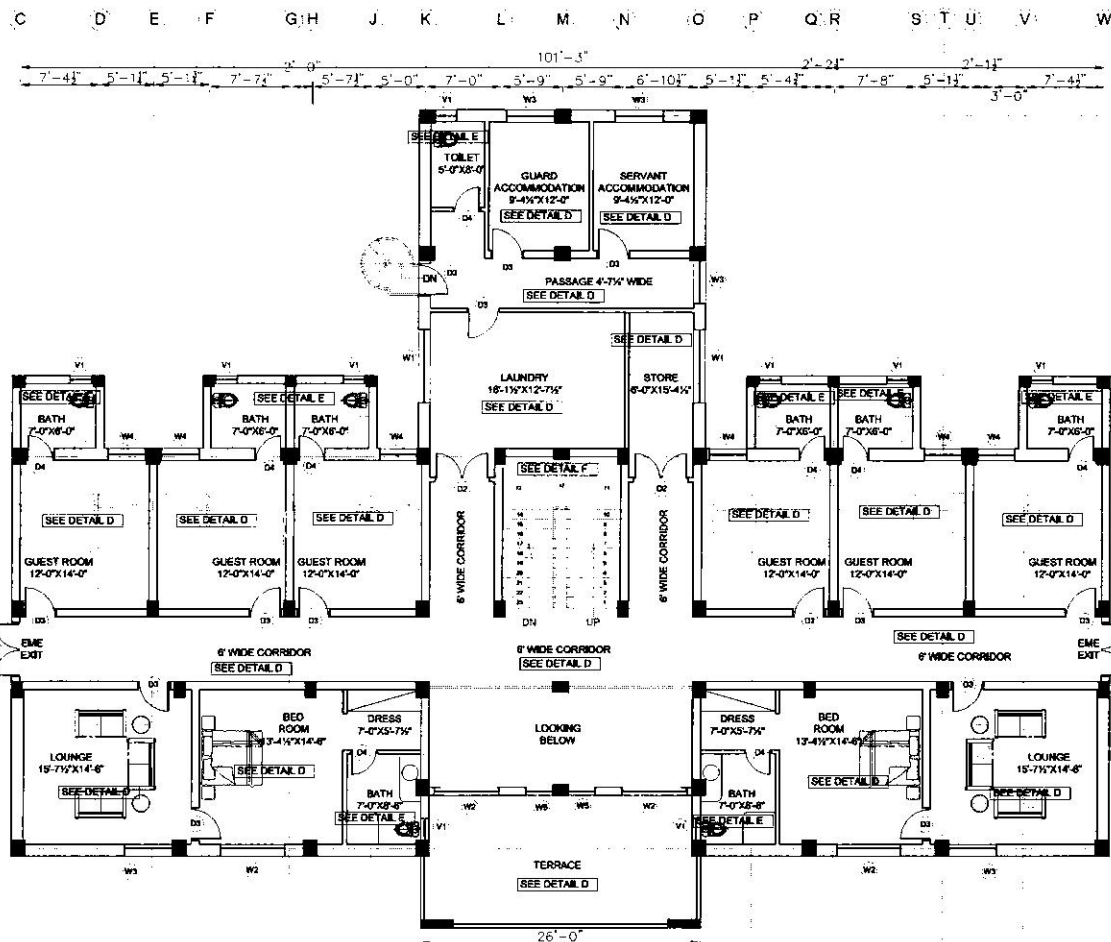
NO-01

DATE:

MAR, 2022

SCALE:

A.T.S



FIRST FLOOR PLAN
AREA = 4581 sft

ADDITION & REVISION				
NO.	DESCRIPTION	DATE	BY	CHKD.



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PROJECT:

**"PROVISION OF MISSING FACILITIES FOR THE
 SHAHJAHAT UNIVERSITY SIKRAPUR"**

FILE:

FIRST FLOOR PLAN

CLIENT:

SHAHJAHAT UNIVERSITY SIKRAPUR

DESIGNED BY:

APPROVED BY:

DATE: MAR, 2022

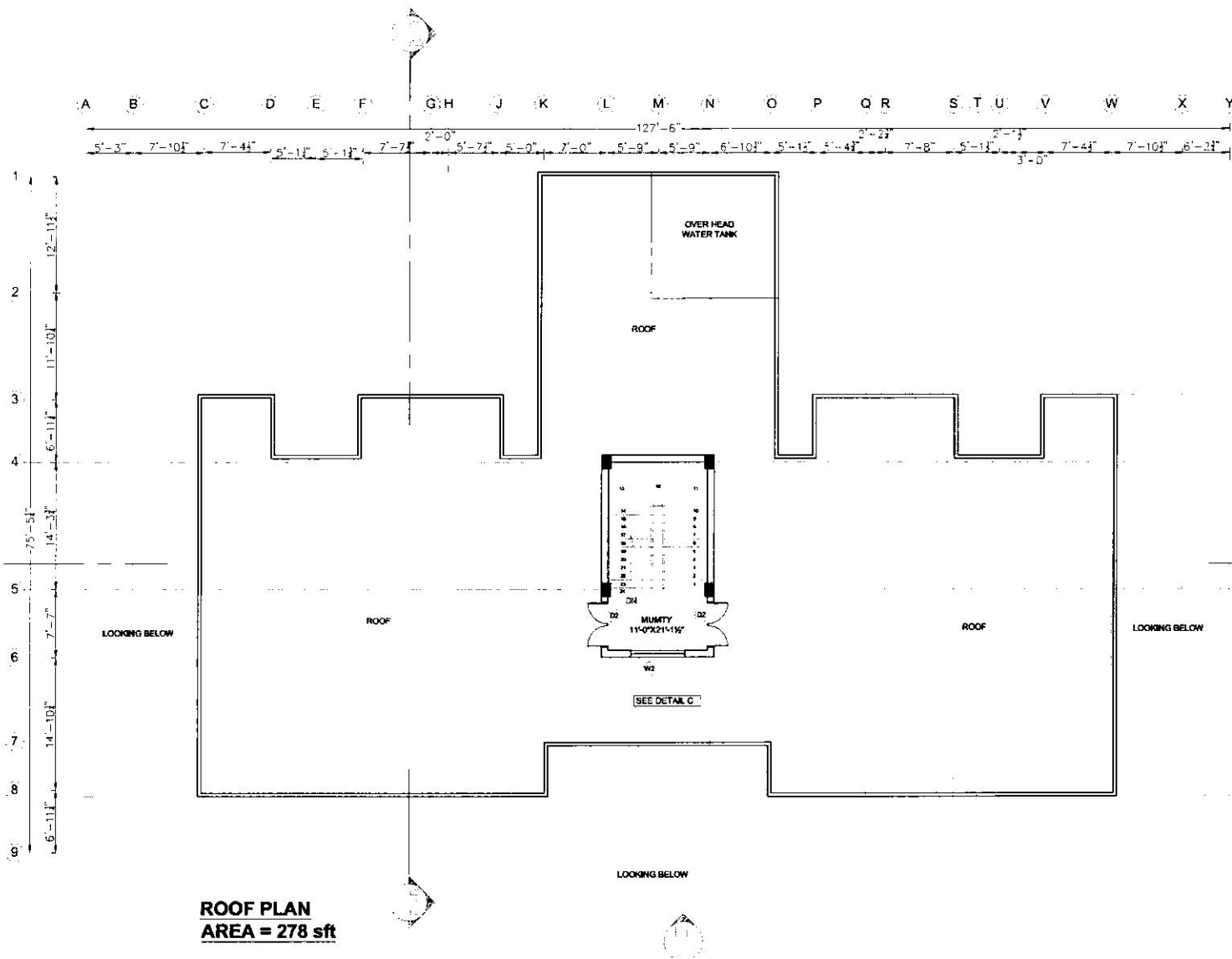
DRAWN BY:

SCALE:

1:1

DATE:

AP-02



ADDITION & REVISION					
NO.	DATE	DESCRIPTION	BY	CHKD	APPD

MEMO:



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PROJECT:

**"PROVISION OF MISSING FACILITIES FOR THE
SHAHAN AYAZ UNIVERSITY SHEIKHUPUR"**

TITLE:

ROOF PLAN

CLIENT:

SHAHAN AYAZ UNIVERSITY SHEIKHUPUR

DESIGNED BY:
ARSLAN

APPROVED BY:

DATE:
09/11/2022

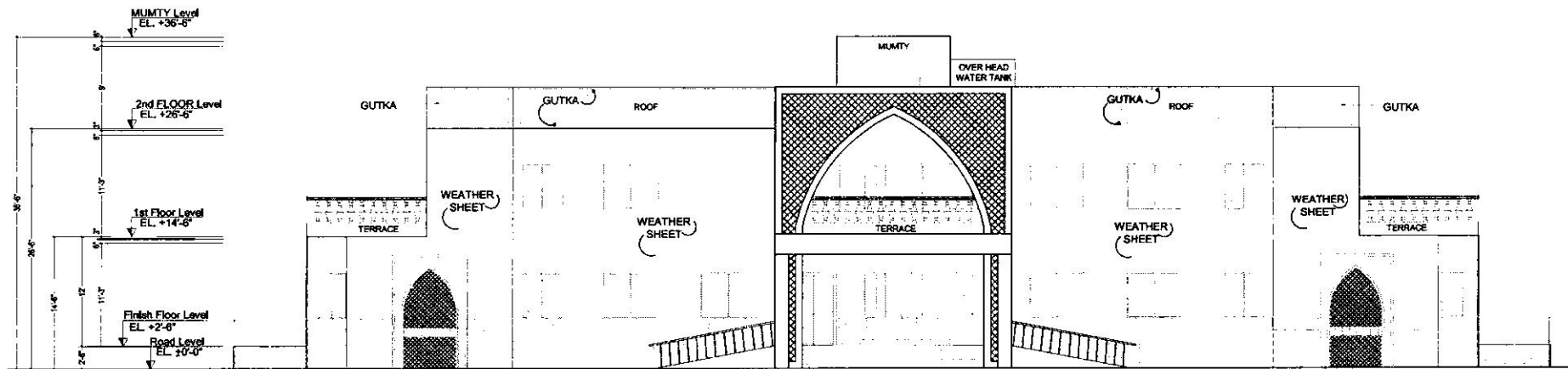
DRAWN BY:
SUFYAN

JOB NO.

SCALE:
1/8" = 1'-0"

DWG. NO.

AR-05



E1 ELEVATION E1

ADDITION & REVISION					
NO.	DATE	DESCRIPTION	BY	CHK.	APP.

DESIGNER:



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PROJECT:

"PROVISION OF MISSING FACILITIES FOR THE
SHAHN AIAZ UNIVERSITY SIKKARPUR"

TITLE:

ELEVATION E-1

CLIENT:

SHAHN AIAZ UNIVERSITY SIKKARPUR

DESIGNED BY: ALAMUDDIN	APPROVED BY:	DATE: MAY, 2022
DRAWN BY: BUTAM	JOB NO.:	SCALE: 1:1.5
CHK. NO.:	APPROVED:	



"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"



**EXTERNAL DEVELOPMENT
BOUNDARY WALL
TENDER DRAWINGS
APRIL, 2022**

DESIGN BY



NEW VISION ENGINEERING CONSULTANT

HEAD OFFICE:

Office No.B-6 Second Floor Masood Arcade
IJP Road Islamabad.

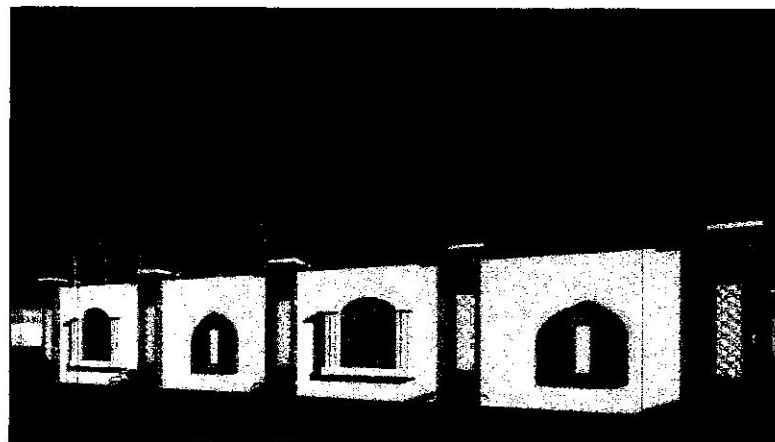
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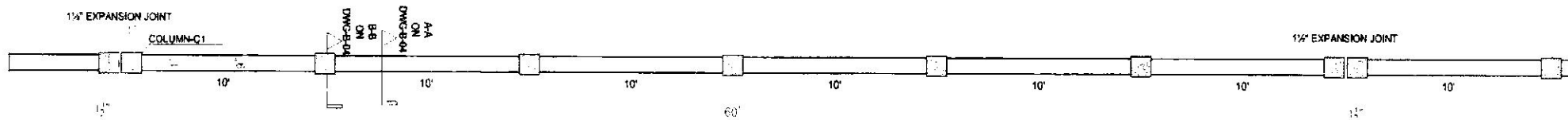
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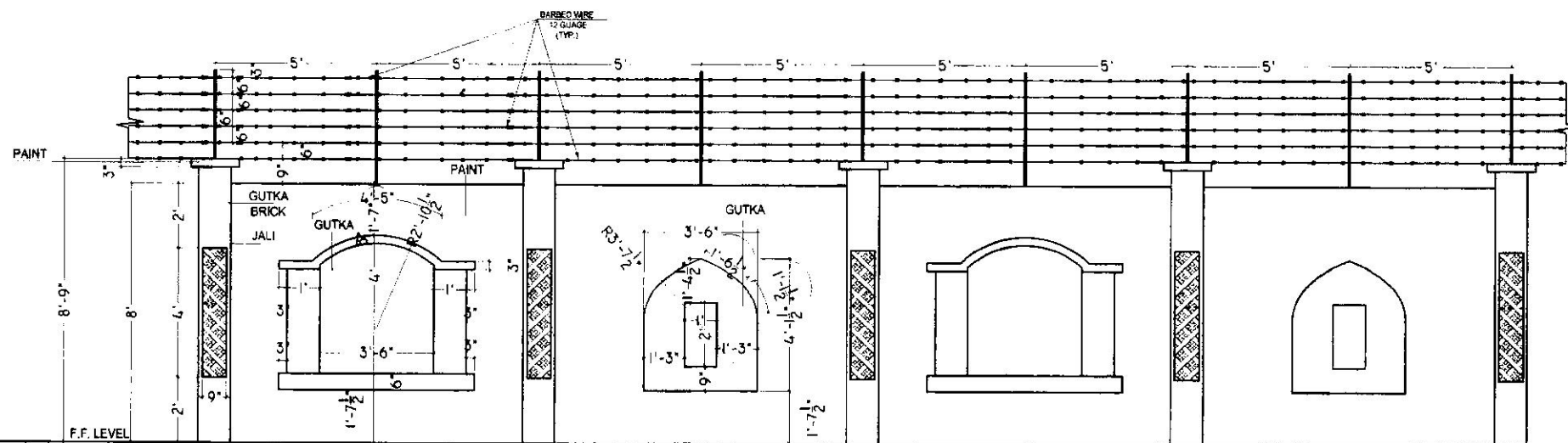
BOUNDARY WALL ALONG RUSTAM ROAD



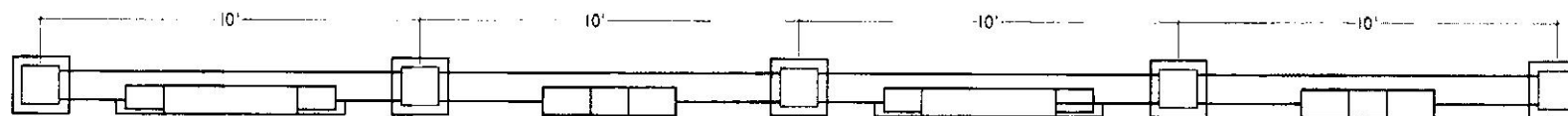
BOUNDARY WALL ALONG NATIONAL HIGHWAY



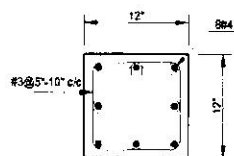
BOUNDARY WALL PLAN



BOUNDARY WALL ALONG NATIONAL HIGHWAY
FRONT ELEVATION



BOUNDARY WALL ALONG NATIONAL HIGHWAY



COLUMN (1)

[illegible]**NEW VISION ENGINEERING CONSULTANT**

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1990

"PROVISION OF MISSING FACILITIES FOR THE
SHAKH AYAZ UNIVERSITY SHIKARPUR"

**BOUNDARY WALL PLAN &
ELEVATION**

CAJ 44-275

— **1998** —

SHAKH AYAZ UNIVERSITY SHIKARPUR

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UNITED STATES DEPARTMENT OF JUSTICE

DRAWN BY:

ADYAN

DRG NO.

APPROVED BY

24

JOHN NO

100

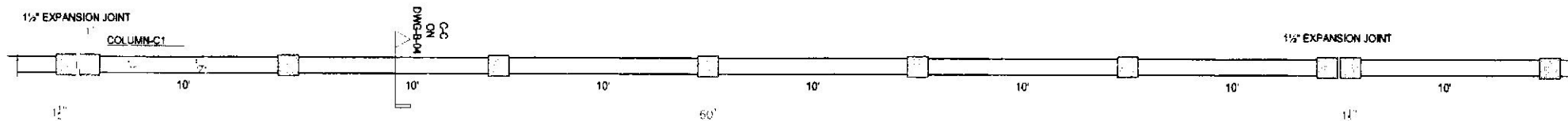
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DATE: FEB 2022

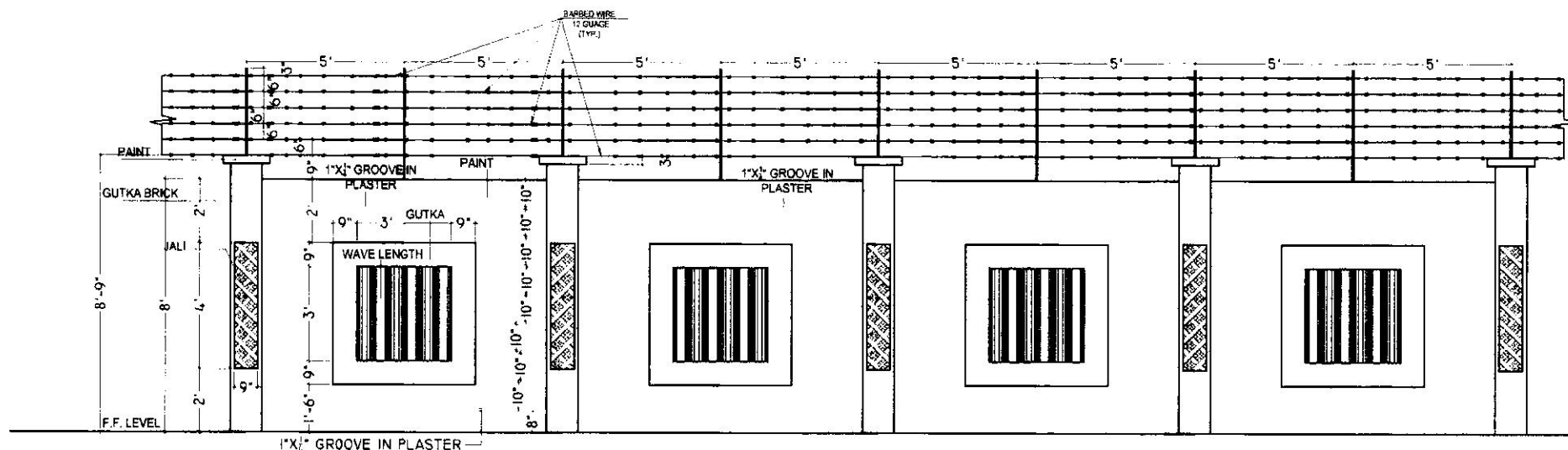
1. *Journal of the American Medical Association*, 1997; 277: 1033-1037.

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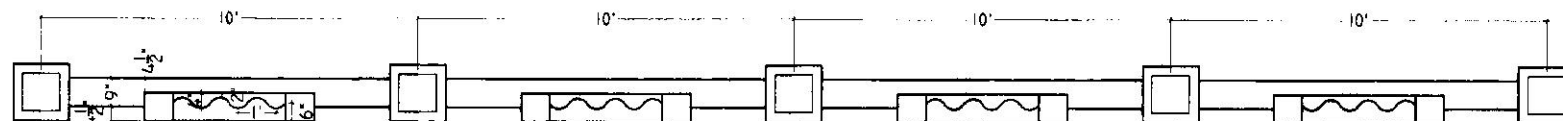
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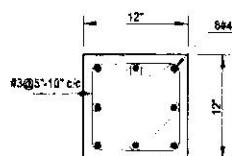
BOUNDARY WALL PLAN



**BOUNDARY WALL ALONG RUSTAM ROAD
FRONT ELEVATION**



**BOUNDARY WALL ALONG RUSTAM ROAD
PLAN**



COLUMN (1)

ADDITION & REVISION	
NO.	DATE



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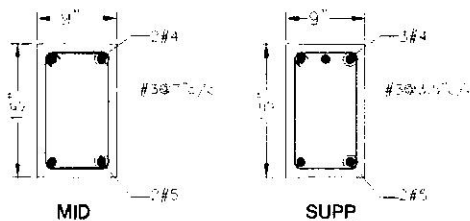
Ph: +92-51-4848375, Fax: +92-51-4848375

Email: newvisionec@yahoo.com

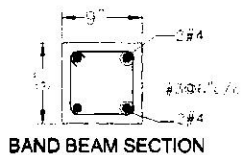
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PROJECT		CLIENT	
"PROVISION OF MISSING FACILITIES FOR THE SHAKH AYAZ UNIVERSITY SHIKARPUR"		SHAKH AYAZ UNIVERSITY SHIKARPUR	
TITLE BOUNDARY WALL PLAN & ELEVATION	DESIGNED BY: M. K. HAN	APPROVED BY:	DATE FEB. 2022
	DRAWN BY: ASAD	JOB NO.	SCALE: N.T.S
	CAD DRAWING	DWG NO.	BD-03

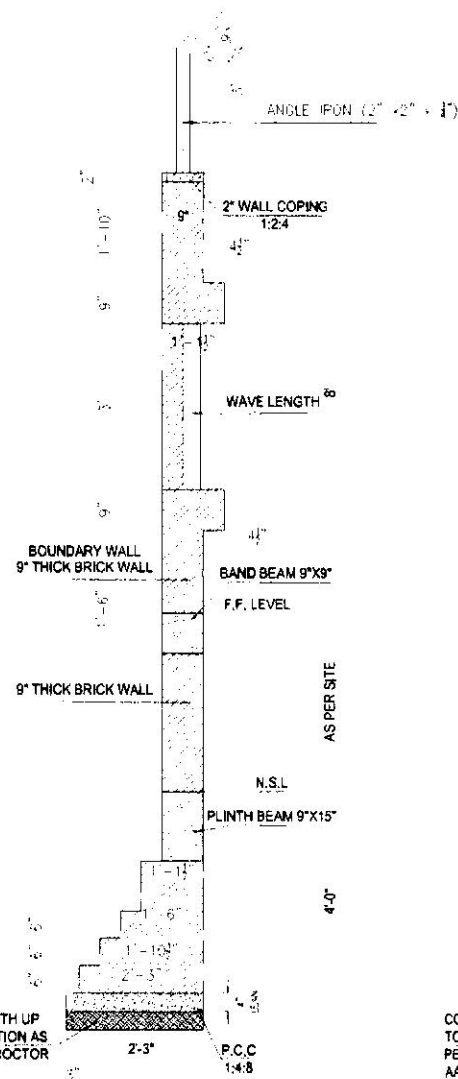


PLINTH BEAM SECTION



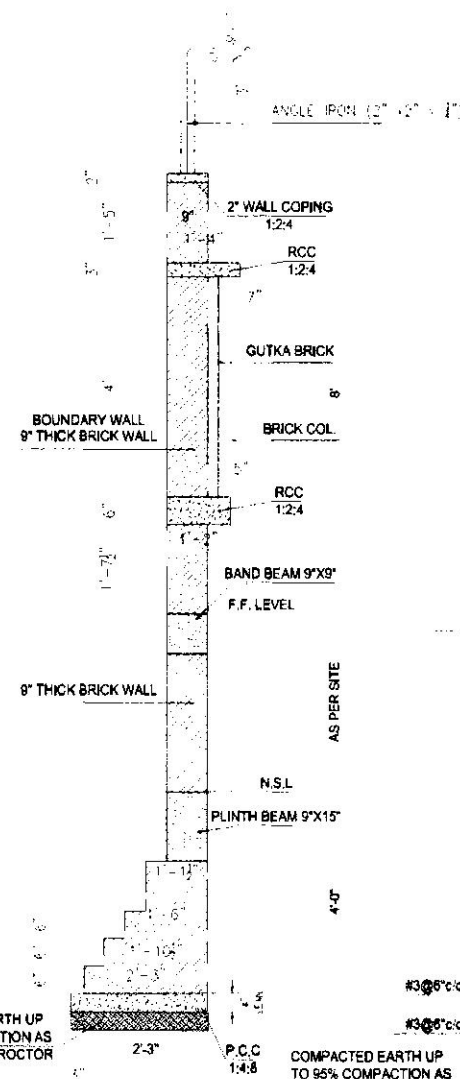
COMPACTED EARTH UP TO 95% COMPACTION AS PER MODIFIED PROCTOR AASHTO

FOUNDATION DETAILS OF BOUNDARY WALL SECTION C-C



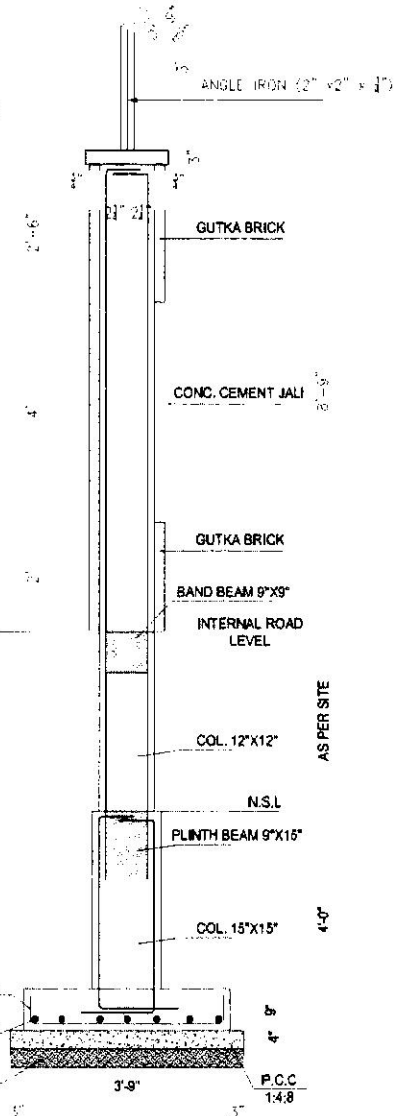
COMPACTED EARTH UP TO 95% COMPACTION AS PER MODIFIED PROCTOR AASHTO

FOUNDATION DETAILS OF BOUNDARY WALL SECTION A-A



COMPACTED EARTH UP TO 95% COMPACTION AS PER MODIFIED PROCTOR AASHTO

FOUNDATION DETAILS OF BOUNDARY WALL COLUMN SECTION B-B



NO.	DESCRIPTION	DATE
1	ADDITION & REVISION	
2		
3		
4		
5		



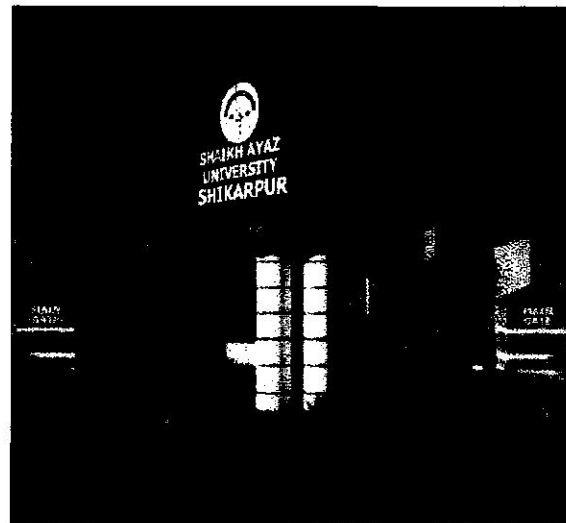
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 Ph: +92-42-97280130

PROJECT:	"PROVISION OF MISSING FACILITIES FOR THE SHAKH AYAZ UNIVERSITY SHIKARPUR"
TITLE:	BOUNDARY WALL DETAIL
CAD DRAWING:	

DESIGNED BY:	APPROVED BY:	DATE:
DRAWN BY:	CHECKED BY:	SCALE:
DWG. NO:	REV. NO:	REV. DATE:



"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"



**EXTERNAL DEVELOPMENT
MAIN GATE
TENDER DRAWINGS
APRIL, 2022**

DESIGN BY



NEW VISION ENGINEERING CONSULTANT

HEAD OFFICE:

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IJP Road Islamabad.

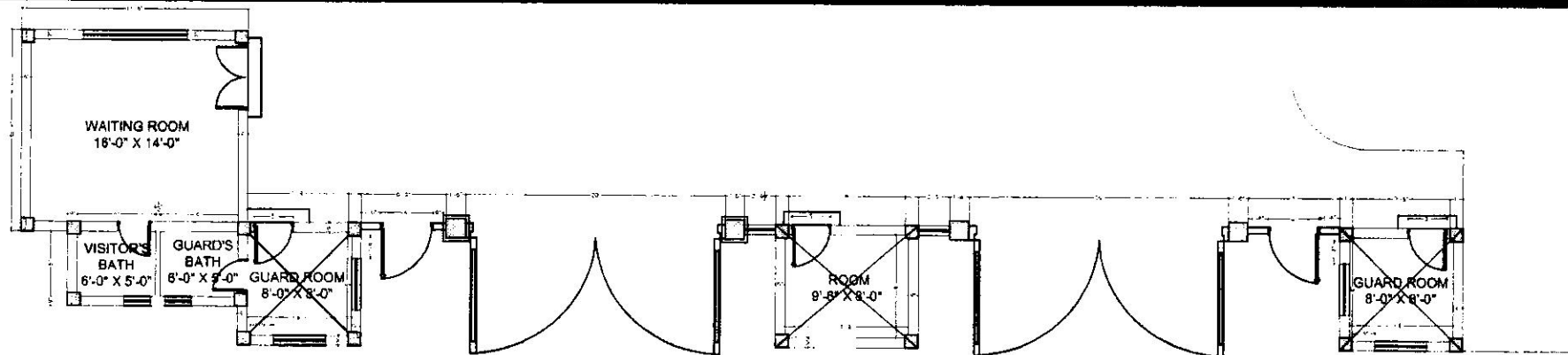
Ph: +92-51-4848375, Fax: +92-51-4848375

Email: newvisionec@yahoo.com

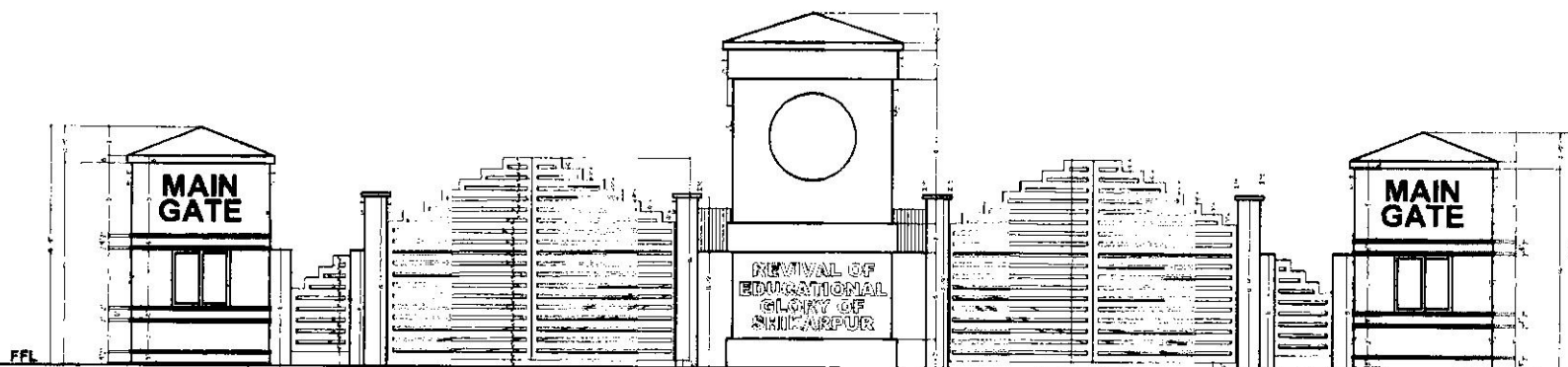
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Ph: +92-42-37250130



**SAU MAIN GATE
PLAN**



**SAU MAIN GATE
FRONT ELEVATION**

ADDITION & REVISION	
NO.	DATE



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PROJECT		CLIENT	
"PROVISION OF MISSING FACILITIES FOR THE SHAHK AYAZ UNIVERSITY SHIKARPUR"		SHAHK AYAZ UNIVERSITY SHIKARPUR	
TITLE	MAIN GATE PLAN AND ELEVATION	DESIGNED BY	DATE
		DRAWN BY	SCALE
		CHECKED BY	DATE
		APPROVED BY	DATE
			SCALE
			DATE
			DATE



"PROVISION OF MISSING FACILITIES FOR THE SHAIKH AYAZ UNIVERSITY SHIKARPUR"



**EXTERNAL DEVELOPMENT
MOUNMENT
TENDER DRAWINGS
APRIL, 2022**

DESIGN BY



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HEAD OFFICE:

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Cavalry Ground ,Lahore

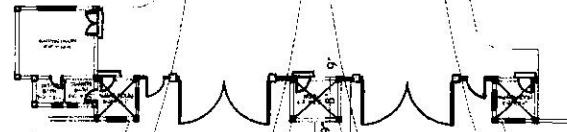
Ph: +92-42-37250130

ENT.

EXT.



97'-9 1/2"
108'-3 1/2"
56'-11"
56'-11"
37'-0 1/2"



ADDITION & REVISION	
NO.	DATE

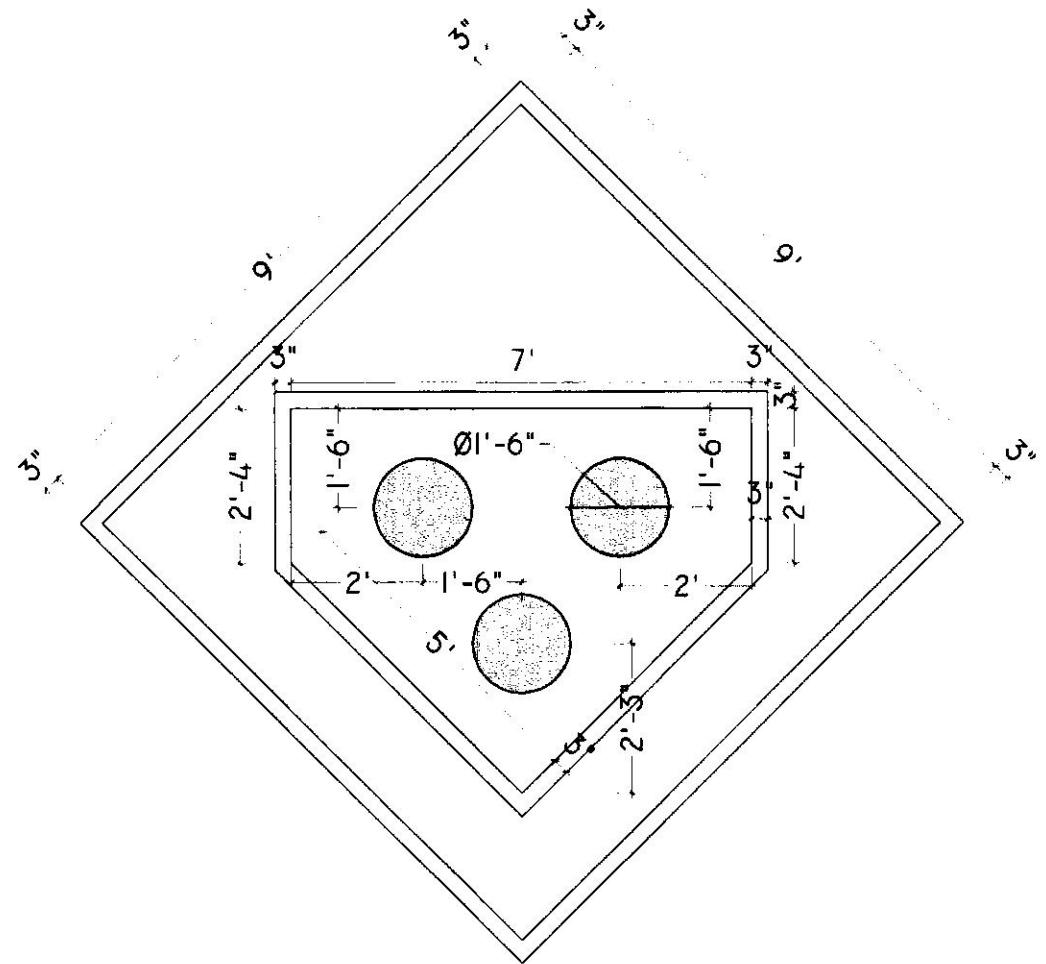
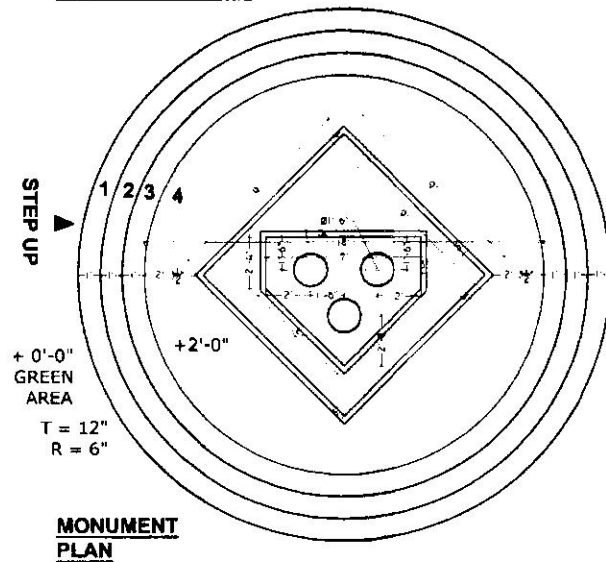
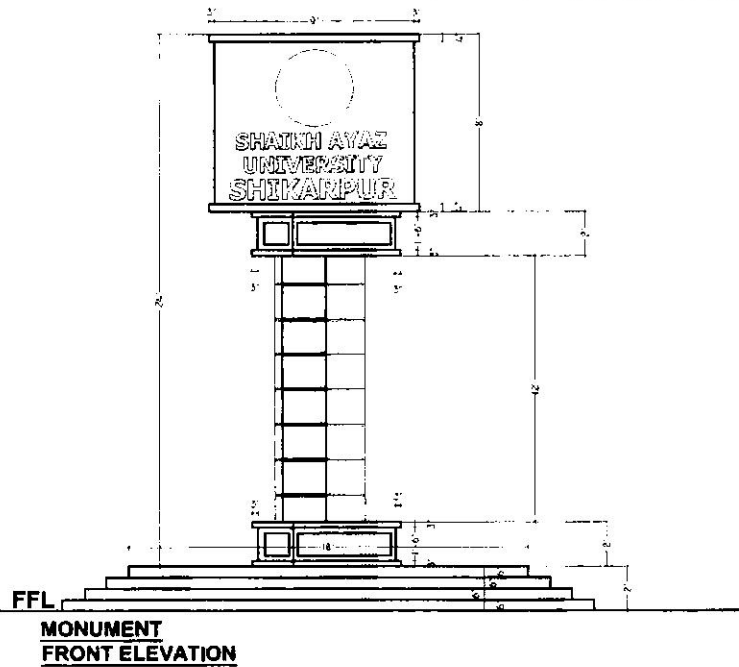


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PROJECT		CLIENT	
"PROVISION OF MISSING FACILITIES FOR THE SHAHK AYAZ UNIVERSITY SHIKARPUR"		SHAHK AYAZ UNIVERSITY SHIKARPUR	
DESIGNED BY:	APPROVED BY:	DATE	MARCH, 2022
DRAWN BY:	FOR NO:	SCALE:	N.T.S
ADWAN			
CAD NUMBER:			



ADDITION & REVISION	
NO.	DATE



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PROJECT		CLIENT	
"PROVISION OF MISSING FACILITIES FOR THE SHAH KHAN AYAZ UNIVERSITY SHIKARPUR"		SHAH KHAN AYAZ UNIVERSITY SHIKARPUR	
DESIGNED BY:	APPROVED BY:	DATE	MARCH, 2022
DRAWN BY:	JOB NO.	SCALE	N.T.S
CAD NUMBER	ORIG. NO.	N/A	

STRUCTURAL NOTES

GENERAL TECHNICAL NOTES

- Figured dimensions are to be followed.
- Class "A" kiln burnt brick with minimum crushing strength of 2000 PSI should be used & joint at end should be sloppy. Vertical toothed joint at corners are prohibited.
- A steel G-60 deformed steel should be used in beams footing slabs and water retaining structures, in columns, for all diameters.
- All steel should be checked for its quality and placement DETAIL as shown in drawings.
- Extra care is required for proper placement of top reinforcement at support sections and cantilevers.
- Dotted bars designate top reinforcement.
- Provide L-shaped end hooks for all bars at discontinuous ends in footings, walls, beams and slabs as shown in drawings.
- Lap length should be followed As except specified:-
 - 1" ϕ = 60"
 - 3/4" ϕ = 45"
 - 5/8" ϕ = 36"
 - 1/2" ϕ = 30"
 - 3/8" ϕ = 23"
- Provide 3/8" dia at 12" c/c as distribution steel if not shown in drawings.
- Minimum concrete cover,
 - Footing = 2"
 - Slabs = 3/4" i- Water/earth face or exposed to weather = 2"
 - Beams = 1 1/2"
 - Columns = 1 1/2" ii- Other faces = 1"
- All footing should be taken below the original Ground Level to achieve the minimum depth as shown in drawings. Footing should not be placed on uncompacted fill area.
- All drawings should be read in conjunction with Architectural Drawings.
- Contractor will co-ordinate all drawings such as architectural, structural, electrical, mechanical, water supply, drainage etc; before execution of work.
- Standard ACI 318, Astm C 33 and Astm A-615 use for structural concrete
- Fine modulus of fine aggregate varies from 2- 3.5mm For concrete use 2.9- 3.2mm For plaster use 2.2- 3.6mm

QUALITY OF CONCRETE

- FOOTINGS & RETAINING WALLS.**
Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)

2. COLUMNS.

Minimum concrete compressive strength for 6"x12" cylinder to be 4000 psi at 28 days age. Concrete Nominal Mix to be 1:1 1/2:3 or more rich to provide specified strength

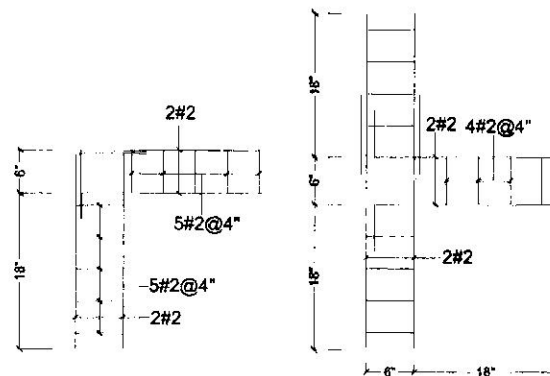
3. BEAMS, RIBS & SLABS.

Minimum concrete compressive strength for 6"x12" cylinder to be 3000 psi at 28 days age. Concrete Nominal Mix to be 1:2:4 or more rich to provide specified strength (Equivalent 6"x6"x6" cube strength 3750 psi)

- Use of plasticizers recommended to reduce the water cement ratio and increase workability of concrete.
- All concrete mixes to be used, should be got designed & approved before execution of work.
- Quality, size and gradation of aggregates (fine & coarse) as used during the mix design, should be strictly adhered with.
- The Design is in accordance with Seismic Zone 2A.

NOTES

- ALL LAYOUT DIMENSIONS AND F.FLOOR LEVELS TO BE AS PER ARCH DRAWING.
- PROVIDE PLINTH BEAM PB AT PLINTH LEVEL, WALL BEAMS AT SLAB LEVEL.
- PROVIDE #2 DOUBLE-LEG TIE BARS AT 12" CENTRES AT COMMON JOINT BETWEEN WALLS AND COLUMNS. THESE BARS SHOULD PASS INTO WALLS ON EACH SIDE OF COLUMNS.

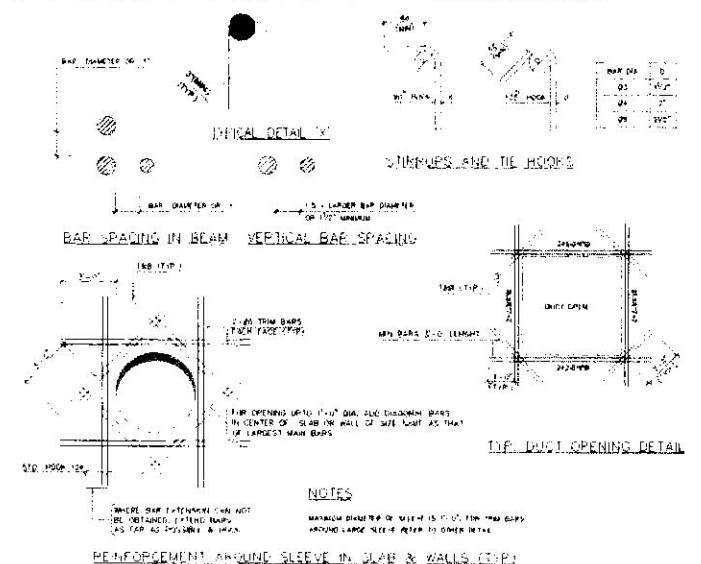


PLAN OF BRICK WALL TIE FOR CORNER JOINT

PLAN OF BRICK WALL TIE FOR T-JOINT

REINFORCING STEEL

REINFORCING STEEL $f_y = 60,000$ psi			
BAR NO.	BAR DIA (IN.)	DEVELOPMENT LENGTH (INCH) IN TENSION $f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	17"	18"
#4	0.500	21"	18"
#5	0.625	26"	24"
#6	0.750	33"	29"
#7	0.875	40"	35"
#8	1.000	48"	42"
DEVELOPMENT LENGTH (INCH) IN COMPRESSION			
BAR NO.	BAR DIA (IN.)	$f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	8"	8"
#4	0.500	11"	10"
#5	0.625	14"	12"
#6	0.750	17"	15"
#7	0.875	20"	17"
#8	1.000	25"	20"
SPICE LENGTH (INCH) IN TENSION			
BAR NO.	BAR DIA (IN.)	$f_c = 3000$ psi	$f_c = 4000$ psi
#3	0.375	28"	26"
#4	0.500	36"	30"
#5	0.625	45"	38"
#6	0.750	54"	46"
#7	0.875	63"	54"
#8	1.000	72"	62"



NOTES

WHERE BAR EXTENSION CAN NOT BE OBTAINED, EXTRA BARS AS FAR AS POSSIBLE SHOULD BE USED.
MAXIMUM DIAMETER OF SLEEVE IS 12" FOR 12" DIA BARS. AROUND LARGE SLEEVE REFER TO OTHER DETAIL.

NO.	REVISION



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"PROVISION OF MISSING FACILITIES FOR THE SHARAH AYAZ UNIVERSITY SHIKARPUR"

NO.	REVISION

CLIENT:	SHARAH AYAZ UNIVERSITY SHIKARPUR
DESIGNED BY:	APPROVED BY:
DATE:	DATE:
SCALE:	SCALE:
NO.	NO.
NO.	NO.