



Local Government & Community Development Department

Punjab Cities Program Construction of SWM Parking Area in Jhang City

PC-I

Estimated Cost Million PKR 89.45

February 2023

Municipal Committee Jhang



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Punjab Cities Program

PC-I Form for Construction of SWM Parking Shed in Jhang City

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PC-I FORM
for
Construction of SWM Parking Area in Jhang City

Project Serial Number

Sector : **Local Government & Community Development Department**
Sub Sector: **Social**

1. Name of the project	Punjab Cities Program Construction of Parking Area in Jhang city	
2.Location	<p>Jhang city serves as headquarters of Jhang District, and is located in the central portion of the Punjab province. The city is situated at 72°-20' East and 31°-16' north at a distance of 92 km from Faisalabad, and 252 km from Lahore. The city is located on the east bank of Chenab River.</p> <p>Location map of the city is attached in Annexure-A</p>	
3. Authorities responsible for		
i- Sponsoring	Government of the Punjab (through World Bank funding)	
ii- Execution	Municipal Committee Jhang	
iii- Operation and Maintenance	Municipal Committee Jhang	
iv- Concerned Provincial Department	Local Government and Community Development Department Punjab	
4a. Plan Provision		
i. If the project is included in medium term/five year plan, specify actual allocation	Punjab Cities Program (PCP) is a World Bank funded Program with a total cost of USD 236.00 million and comprises of below mentioned components.	
	Total loan from World Bank	USD 200.00 million
	Component-1 Infrastructure development (PforR)	USD 180.00 million
	Component-2 Technical Assistance	USD 20.00 million
	MCs share (20% of PforR component) equivalent to:	USD 36.00 million
	Total Program cost	USD 236.00 million
	Component-2 i-e Technical Assistance component of Program costing USD 20.00 million is meant for management cost of the Program and	

	capacity building of MCs & Government Departments and is included in the medium term/ five-year plan and has been funded with allocation of PKR 1329.90 million as foreign component.
ii- If not included in the current plan, what warrants its inclusion and how it is now proposed to be accommodated	Not applicable
iii If the project is proposed to be financed out of block provision indicate.	The Project is being financed by World Bank as Donor along with 20% co-financing from the Program Units and is not proposed to be financed out of block allocation.
4b- Provision in the current year	PKR. 1329.90 million
5. Project objectives and its relationship with sector objectives	<p><u>Sector Objectives</u></p> <p>The sector objectives include:</p> <ol style="list-style-type: none"> 1. Provision of efficient and effective municipality services to the masses. 2. Community development through improving basic infrastructure. 3. Clean and green environment for better living standards. 4. Effective use of land through master planning of urban areas. 5. Social uplifting and cohesion through provision of public open spaces and play grounds. 6. Ease in mobility and communication. 7. Cost efficient Solid Waste Management through waste to energy initiatives. 8. Capacity building of Local Governments. 9. Efficient Road network to make areas easily accessible <p><u>Objectives of the Project</u></p> <p>The Punjab Cities Program aims at improvement of infrastructure of municipal services such as roads, cross roads, street lights, parks and parking shed for SWM machinery for improved communication and recreational facilities.</p> <p>Scope of the work for this particular project includes the construction of Parking shed for SWM Machinery.</p> <p>The Project has the following objectives;</p> <ol style="list-style-type: none"> 1. Provision of suitable parking area for the MC Vehicles.

	<ol style="list-style-type: none"> 2. Making MC self-sufficient in small repairs to the machinery & Equipment possessed by MC 3. Provision of a washing facilities for the vehicles 4. Effective protection to the vehicles against the solar radiation and Ultraviolet rays, rain, hail, wind, and dust. 5. Slowing down the deterioration of vehicles, therefore reducing the cost of maintenance. 6. Enhancement of the security of vehicles during non-working hours. 7. Better watch and ward of MC machinery and equipment and reduction of losses due to theft of equipment and spares. 8. Provision of better solid waste management service by protection of the machinery and equipment. <p>Hence, the objectives of the project are in line with the sector objectives at serial No-1, 2, 3 & 7 and the project forms integral part of the concerned sector.</p>
<p>6. Description, justification, technical parameters and technology transfer aspects</p>	
<p>i. Present Condition</p>	<p>As per PLGA-12019 Urban Local Governments (ULGs) are basically and wholly responsible for delivery of the municipal services with a service delivery level which should satisfy the consumers and citizen. Unfortunately, the prevalent conditions of the service delivery are not encouraging in the city.</p> <p>The major reason of unsatisfactory service delivery is the lack of proper maintenance of the municipal infrastructure in all sectors causing consumer dissatisfaction at one end and degradation of the infrastructure on the other end apart from very low revenue recovery as the consumers are reluctant to pay because of deteriorated service delivery.</p> <p>MC Jhang has some machinery and equipment which is already being used for collection and disposal of the solid waste. Under Punjab Cities Program modern, efficient and cost-effective machinery and equipment has been provided to MC Jhang for provision of better solid waste management facilities to the people of Jhang.</p> <p>At present, there is no appropriate parking space available with MC for the existing and newly procured machinery and equipment and dire need for parking area facility is being felt. Currently the solid waste machinery is being parked under open sky in various spaces available with MC. Absence of permanent parking space can cause machinery deterioration and compromise its safety that will lead to non-sustainability of solid waste management.</p>

ii. Description of the subproject-	The project comprises of construction of Parking Area for solid waste management and other machinery and equipment possessed by MC over an area of 11.43 kanals in the city. Detail of the components of Parking Area have been given in the table below.																				
iii Detail of civil works, equipment & machinery and other physical facilities	<p>The detail of Parking Shed for SWM Machinery to be constructed in the city, is given below: Location: Jhang City Road near Hilal-e-Ahmar Hospital</p> <table border="1" data-bbox="563 488 1457 1010"> <thead> <tr> <th data-bbox="563 488 643 577">S. N.</th> <th data-bbox="643 488 1457 577">Detail of works</th> </tr> </thead> <tbody> <tr> <td data-bbox="563 577 643 622">1</td> <td data-bbox="643 577 1457 622">Boundary wall and Entrance Gate</td> </tr> <tr> <td data-bbox="563 622 643 712">2</td> <td data-bbox="643 622 1457 712">Sheds for vehicles with Steel Columns and Aluzinc sheeting at the top</td> </tr> <tr> <td data-bbox="563 712 643 757">3</td> <td data-bbox="643 712 1457 757">Administrative Building</td> </tr> <tr> <td data-bbox="563 757 643 801">4</td> <td data-bbox="643 757 1457 801">Workshop with tool room and toilet</td> </tr> <tr> <td data-bbox="563 801 643 846">5</td> <td data-bbox="643 801 1457 846">Open Service Station</td> </tr> <tr> <td data-bbox="563 846 643 891">6</td> <td data-bbox="643 846 1457 891">Parking aprons</td> </tr> <tr> <td data-bbox="563 891 643 936">7</td> <td data-bbox="643 891 1457 936">Guard room</td> </tr> <tr> <td data-bbox="563 936 643 981">8</td> <td data-bbox="643 936 1457 981">Silt Holding Tank & Septic Tank</td> </tr> <tr> <td data-bbox="563 981 643 1010">9</td> <td data-bbox="643 981 1457 1010">External Water supply, Sewerage and Drainage system</td> </tr> </tbody> </table>	S. N.	Detail of works	1	Boundary wall and Entrance Gate	2	Sheds for vehicles with Steel Columns and Aluzinc sheeting at the top	3	Administrative Building	4	Workshop with tool room and toilet	5	Open Service Station	6	Parking aprons	7	Guard room	8	Silt Holding Tank & Septic Tank	9	External Water supply, Sewerage and Drainage system
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iv Indicate governess issues of the sector relevant to the project and strategy to resolve them	<ul style="list-style-type: none"> • MC Jhang is facing acute shortage of staff. The smooth sailing of the Punjab Cities Program can only be assured when the required staff is available with Unit. • The Repair and maintenance of the municipal services in not up to the mark in such Unit. Trainings will be imparted by PMDFC to the officers as well as the field staff under the Program but practicing the interventions and method/procedures learnt in these trainings is the actual requirement in which MCs are lacking at present. Hence inculcating the mind set for good repair and maintenance is the major requirement for improving the service delivery level. 																				

<p>7- Capital Cost of Project</p>	<p>The summary of the works included in the project is given below;</p> <table border="1" data-bbox="560 282 1469 1496"> <thead> <tr> <th data-bbox="560 282 675 412">S. No</th> <th data-bbox="675 282 1286 412">Item of works</th> <th data-bbox="1286 282 1469 412">Cost (PKR million)</th> </tr> </thead> <tbody> <tr><td data-bbox="560 412 675 461">1</td><td data-bbox="675 412 1286 461">Admin Block</td><td data-bbox="1286 412 1469 461">6.362</td></tr> <tr><td data-bbox="560 461 675 510">2</td><td data-bbox="675 461 1286 510">Guard Room</td><td data-bbox="1286 461 1469 510">0.501</td></tr> <tr><td data-bbox="560 510 675 560">3</td><td data-bbox="675 510 1286 560">Workshop</td><td data-bbox="1286 510 1469 560">3.669</td></tr> <tr><td data-bbox="560 560 675 609">4</td><td data-bbox="675 560 1286 609">Parking Shed (Size 105' X 32')(2 Nos.)</td><td data-bbox="1286 560 1469 609">24.637</td></tr> <tr><td data-bbox="560 609 675 658">5</td><td data-bbox="675 609 1286 658">Parking Shed (Size 60' X 32')</td><td data-bbox="1286 609 1469 658">7.119</td></tr> <tr><td data-bbox="560 658 675 707">6</td><td data-bbox="675 658 1286 707">Parking Shed (Size 108' X 16')(2 Nos.)</td><td data-bbox="1286 658 1469 707">11.450</td></tr> <tr><td data-bbox="560 707 675 757">7</td><td data-bbox="675 707 1286 757">Washing Pit</td><td data-bbox="1286 707 1469 757">1.878</td></tr> <tr><td data-bbox="560 757 675 851">8</td><td data-bbox="675 757 1286 851">External Work (Boundary Wall + Tuff Paver + Lawn)</td><td data-bbox="1286 757 1469 851">17.567</td></tr> <tr><td data-bbox="560 851 675 900">9</td><td data-bbox="675 851 1286 900">Ejector Pump</td><td data-bbox="1286 851 1469 900">0.266</td></tr> <tr><td data-bbox="560 900 675 949">10</td><td data-bbox="675 900 1286 949">External Water Supply System</td><td data-bbox="1286 900 1469 949">0.727</td></tr> <tr><td data-bbox="560 949 675 999">11</td><td data-bbox="675 949 1286 999">External Sewerage System</td><td data-bbox="1286 949 1469 999">0.788</td></tr> <tr><td data-bbox="560 999 675 1048">12</td><td data-bbox="675 999 1286 1048">Septic Tank</td><td data-bbox="1286 999 1469 1048">0.168</td></tr> <tr><td data-bbox="560 1048 675 1097">13</td><td data-bbox="675 1048 1286 1097">Drainage System</td><td data-bbox="1286 1048 1469 1097">0.284</td></tr> <tr><td data-bbox="560 1097 675 1146">14</td><td data-bbox="675 1097 1286 1146">Silt Holding Tank</td><td data-bbox="1286 1097 1469 1146">0.225</td></tr> <tr><td data-bbox="560 1146 675 1196">15</td><td data-bbox="675 1146 1286 1196">External Electrical Work</td><td data-bbox="1286 1146 1469 1196">3.400</td></tr> <tr><td data-bbox="560 1196 675 1245">16</td><td data-bbox="675 1196 1286 1245">Environmental and Social Mitigation Cost</td><td data-bbox="1286 1196 1469 1245">0.112</td></tr> <tr><td data-bbox="560 1245 675 1294"></td><td data-bbox="675 1245 1286 1294" style="text-align: right;">Total cost</td><td data-bbox="1286 1245 1469 1294">79.162</td></tr> <tr><td data-bbox="560 1294 675 1344"></td><td data-bbox="675 1294 1286 1344">Contingencies @2%</td><td data-bbox="1286 1294 1469 1344">1.583</td></tr> <tr><td data-bbox="560 1344 675 1393"></td><td data-bbox="675 1344 1286 1393">Punjab Sales Tax @5%</td><td data-bbox="1286 1344 1469 1393">3.958</td></tr> <tr><td data-bbox="560 1393 675 1442"></td><td data-bbox="675 1393 1286 1442">Price Escalation @6%</td><td data-bbox="1286 1393 1469 1442">4.74</td></tr> <tr><td data-bbox="560 1442 675 1496"></td><td data-bbox="675 1442 1286 1496" style="text-align: right;">Grand Total</td><td data-bbox="1286 1442 1469 1496">89.45</td></tr> <tr><td colspan="3" data-bbox="560 1496 1469 1547" style="text-align: center;">See Annexure-B for details</td></tr> </tbody> </table>	S. No	Item of works	Cost (PKR million)	1	Admin Block	6.362	2	Guard Room	0.501	3	Workshop	3.669	4	Parking Shed (Size 105' X 32')(2 Nos.)	24.637	5	Parking Shed (Size 60' X 32')	7.119	6	Parking Shed (Size 108' X 16')(2 Nos.)	11.450	7	Washing Pit	1.878	8	External Work (Boundary Wall + Tuff Paver + Lawn)	17.567	9	Ejector Pump	0.266	10	External Water Supply System	0.727	11	External Sewerage System	0.788	12	Septic Tank	0.168	13	Drainage System	0.284	14	Silt Holding Tank	0.225	15	External Electrical Work	3.400	16	Environmental and Social Mitigation Cost	0.112		Total cost	79.162		Contingencies @2%	1.583		Punjab Sales Tax @5%	3.958		Price Escalation @6%	4.74		Grand Total	89.45	See Annexure-B for details		
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<p>i- Indicate date of estimation of the project cost</p>	<p>The project estimates have been framed during the month of February, 2023</p>																																																																					
<p>ii- Basis of determining the estimates be provided.</p>	<p>The cost estimates have been framed on the basis of bill of quantities actually required at site and unit rates from the Market Rate System (MRS) issued by the Government of Punjab (District Jhang 1st Bi-Annual of year 2023). For items not available in the MRS, the same have been analyzed as per prevailing market rates.</p>																																																																					

iii- Provide year wise estimation of physical activities	Physical phasing of the project is included in the following table:			
	S. #	Item of works	Year 2022-2023	
	1	Boundary wall and Entrance Gate	100%	
	2	Sheds for vehicles with Steel Columns and Aluzinc sheeting at the top	100%	
	3	Administrative Building	100%	
	4	Workshop with tool room and toilet	100%	
	5	Open Service Station	100%	
	6	Parking aprons	100%	
	7	Guard room	100%	
	8	Silt Holding Tank & Septic Tank	100%	
9	External Water supply, Sewerage and Drainage system	100%		
iv- Phasing of capital cost on the basis of each item of work.	Phasing of capital cost of the project is included in the following table: (All figures are in million rupees)			
	S. #	Items of Shed	Total cost (Million Rs)	Year 2022-2023 (Million Rs)
	1	Admin Block	6.362	6.362
	2	Guard Room	0.501	0.501
	3	Workshop	3.669	3.669
	4	Parking Shed (Size 105' X 32') (2 Nos.)	24.637	24.637
	5	Parking Shed (Size 60' X 32')	7.119	7.119
	6	Parking Shed (Size 108' X 16') (2 Nos.)	11.450	11.450
	7	Washing Pit	1.878	1.878
	8	External Work (Boundary Wall + Tuff Paver + Lawn)	17.567	17.567
	9	Ejector Pump	0.266	0.266
	10	External Water Supply System	0.727	0.727
	11	External Sewerage System	0.788	0.788
	12	Septic Tank	0.168	0.168
	13	Drainage System	0.284	0.284
	14	Silt Holding Tank	0.225	0.225
	15	External Electrical Work	3.400	3.400
16	Environmental & Social Mitigation Cost	0.112	0.112	

		PST, contingencies and Price Escalation	10.29	10.29
		Total	89.45	89.45
8-Annual recurrent cost after completion of the project and source of financing	Cost in Million = Rs. 1.091 (See details in Annexure-1)			
9- Demand & Supply Analysis	Existing supply level			
i- Existing Capacity of services	<ul style="list-style-type: none"> • There is no existing parking facility for the SWM machinery. Resultantly the vehicles are parked at open spaces with no protection. • MC Jhang is unable to protect the solid waste transportation and other MC vehicles because of non-availability of appropriate parking area. 			
ii- Projected Demand for 10 years	<p>The Parking area is required to park and protect the solid waste transportation and other MC vehicles.</p> <ul style="list-style-type: none"> •The influence and value of parking spaces in planning for livable communities is very essential. Parking space is more than a necessary element of larger residential or commercial uses; it merits consideration as a distinct land use that affects travel behavior and the environment. The provision of parking lots reduces the congestion on streets and roads and improves traffic flow. District Jhang lacks parking space for the SWM Machinery which are therefore parked in open or rental spaces. The proposal is to construct a parking shed for SWM machinery to accommodate a total of 46 vehicles. •The municipal services require radical improvement to enhance the efficiency of the service to increase service delivery to a satisfactory level. •Many shortcomings, problems and bottlenecks have been observed in the present situation which could not be addressed by MC due to funding constraints and now have been proposed to be addressed by the construction of the municipal services infrastructure. 			
iii- Capacity of other similar projects being implemented in public/private sector	No other project of this nature is being implemented in public as well as private sector because of funding constrains in the Unit.			
iv- Supply and Demand gaps	As explained above there is no parking area in Jhang City for solid waste transportation and other MC vehicles. So there is a large gap between the supply and demand.			

<p>v-Designed capacity and output of the project</p>	<p>1)-Table showing details of the parking area is given below:</p> <table border="1" data-bbox="576 277 1477 618"> <thead> <tr> <th rowspan="2">Location</th> <th rowspan="2">Components</th> <th rowspan="2">No. of Sheds</th> <th colspan="2">Area</th> </tr> <tr> <th>Total area</th> <th>Shed area & Nos.</th> </tr> </thead> <tbody> <tr> <td>Jhang City Road near Hilal-e-Ahmar Hospital</td> <td>As listed in section-7</td> <td>05</td> <td>11.43 Kanals</td> <td>2 Nos. = 105'x32' 2 Nos. = 108'x16' 1 No. = 60'x32'</td> </tr> </tbody> </table> <p>2)-Parking shed is designed for 28-year life. 3)-This Parking shed is designed for 36 vehicles of SWM Machinery.</p>	Location	Components	No. of Sheds	Area		Total area	Shed area & Nos.	Jhang City Road near Hilal-e-Ahmar Hospital	As listed in section-7	05	11.43 Kanals	2 Nos. = 105'x32' 2 Nos. = 108'x16' 1 No. = 60'x32'
Location	Components				No. of Sheds	Area							
		Total area	Shed area & Nos.										
Jhang City Road near Hilal-e-Ahmar Hospital	As listed in section-7	05	11.43 Kanals	2 Nos. = 105'x32' 2 Nos. = 108'x16' 1 No. = 60'x32'									
<p>10. Financial Plan Sources of financing <u>Debt</u> a) Indicate the local and foreign debt Loan</p>	<p>Below given loan for the Punjab Cities Program has been funded by World Bank for 16 PCP cities in Punjab.</p> <table border="1" data-bbox="560 875 1477 1261"> <tr> <td>Total loan to Government of Pakistan/Punjab</td> <td>USD 200 million</td> </tr> <tr> <td>Component-1 for Infrastructure Development</td> <td>USD 180 million</td> </tr> <tr> <td>Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.</td> <td>USD 20 million</td> </tr> <tr> <td>20% share of Municipalities is equivalent to</td> <td>USD 36 million</td> </tr> <tr> <td>Total funds available for Infrastructure Development</td> <td>USD 216 million</td> </tr> <tr> <td colspan="2">This project will be funded under this financing.</td> </tr> </table>	Total loan to Government of Pakistan/Punjab	USD 200 million	Component-1 for Infrastructure Development	USD 180 million	Component-2 for Investment Project Financing For capacity building of MCs & three Govt. organization and program management.	USD 20 million	20% share of Municipalities is equivalent to	USD 36 million	Total funds available for Infrastructure Development	USD 216 million	This project will be funded under this financing.	
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This project will be funded under this financing.													
<p>b) Equity</p>	<p>A. Loan/grant to MC The amount of loan converted to grant to MC Jhang will be Rs. 71.56 million. The financing of the project will be as give n below:</p> <table border="1" data-bbox="587 1447 1477 1659"> <tr> <td>Grant to MC Jhang from World Bank (80% of cost of PC-I)</td> <td>PKR 71.56 million</td> </tr> <tr> <td>20% Co-finance by MC</td> <td>PKR 17.89 million</td> </tr> <tr> <td>Total cost of project</td> <td>PKR 89.45 million</td> </tr> </table> <p>B. Project Cost =Rs. 89.45 million</p> <p>*The loan is from World Bank to Government of Pakistan/Punjab which will trickle down to MC Jhang as grant.</p>	Grant to MC Jhang from World Bank (80% of cost of PC-I)	PKR 71.56 million	20% Co-finance by MC	PKR 17.89 million	Total cost of project	PKR 89.45 million						
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20% Co-finance by MC	PKR 17.89 million												
Total cost of project	PKR 89.45 million												
<p>c) Grants</p>	<p>No grant is being given by Government of Punjab out of ADP funds. The World Bank loan to Government of Pakistan/Punjab will trickle down as grant to MC from Government of Punjab.</p>												

d) Weighted cost of capital	Nil
11-Project benefits and analysis	
i.Financial: Income to the project with assumption	<ul style="list-style-type: none"> • No income will be generated from the project and hence the Financial Analysis is not required. • It is a social sector project and the capital cost of the project is not intended to be recovered. MC will meet the cost of repair and maintenance out of its own resources. The project economic analysis is given as Annexure-C.
ii.Social benefits to the target group	<p>The completion of the project will result in:</p> <ul style="list-style-type: none"> • Provision of suitable parking area for the MC Vehicles. • Making MC self-sufficient in small repairs to the machinery & Equipment possessed by MC • Provision of a washing facilities for the vehicles • Effective protection to the vehicles against the solar radiation and Ultraviolet rays, rain, hail, wind, and dust. • Slowing down the deterioration of vehicles, therefore reducing the cost of maintenance. • Enhancement of the security of vehicles during non-working hours. • Better watch and ward of MC machinery and equipment and reduction of losses due to theft of equipment and spares. • Provision of better solid waste management service by protection of the machinery and equipment.
iii.Environmental Impact negative/positive	<p>Primary and secondary data has been collected and used to assess the environmental impacts of the proposed Parking Area. Site visit was conducted to the project area for the proposed works and to assess the baseline in order to evaluate whether there are any key receptors that will need to be considered during the project works to prevent any long term and irreversible impacts. The activities to be conducted under the project were screened for potential impacts at the design/pre-construction, construction and operation phases of the Parking Sheds. This ‘activity wise’ screening enabled to obtain a clear picture of the expected level of impacts resulting from the different activities and helped identify required mitigation measures to mitigate them to within acceptable limits as per the guidelines provided by the World Bank in the form of Environment and Social Management Framework. However, the impacts will be temporary and there will be no negative impacts after completion of the project, rather, during the operation phase of the Parking Sheds, mostly positive impacts are expected. To facilitate the selection of an optimal solution and for the inclusion of Safe Operating Procedures for Construction workers/labors; assessment indicators or an Environmental Screening Checklist has been developed</p>

	<p>which is attached as Annexure E (A) of this PC-1. The checklist focuses on Environmental Issues and social concerns and ensure that all environmental and social dimensions are adequately considered. Based on the remarks of the screening checklist, Environment and Social Management Plans (ESMPs) does not need to be prepared. However, the necessary cost for Environment Health and Safety of Workers has been incorporated in the PC-1. The Environment, Health and Safety SOPs for labor/workers are provided as Annexure E (B).</p>												
<p>iv. Quantifiable project outputs</p>	<p>The quantifiable project outputs have been given above in Sr. No-9 (V). The social benefits to the citizen have been described at Sr. No-11(ii).</p>												
<p>v. Unit cost analysis</p>	<p>A) Capital Unit Cost The unit cost analysis is produced below;</p> <table border="1" data-bbox="571 701 1481 835"> <tr> <td>Project capital cost</td> <td>PKR 89.45 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>450,330 persons</td> </tr> <tr> <td>Unit capital cost per capita</td> <td>PKR 198</td> </tr> </table> <p>B)-Unit R&M cost:</p> <table border="1" data-bbox="571 920 1481 1055"> <tr> <td>Annual R&M cost</td> <td>PKR 1,091,624</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>450,330 persons</td> </tr> <tr> <td>Unit R&M cost per capita</td> <td>PKR 2.42</td> </tr> </table>	Project capital cost	PKR 89.45 million	Population of the city in year 2023	450,330 persons	Unit capital cost per capita	PKR 198	Annual R&M cost	PKR 1,091,624	Population of the city in year 2023	450,330 persons	Unit R&M cost per capita	PKR 2.42
Project capital cost	PKR 89.45 million												
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Annual R&M cost	PKR 1,091,624												
Population of the city in year 2023	450,330 persons												
Unit R&M cost per capita	PKR 2.42												
<p>vi. Employment generation (direct and indirect)</p>	<p><u>Employment Analysis</u> Direct Employment</p> <p>a) Planning and Design of projects The planning and design of the project has been entrusted to local consultants (JERS Consultancy) who have appointed staff and experts in Structural designing and related disciplines along with their support staff. The consultants will also appoint their staff for resident supervision of the project to verify and certify the items of works to be executed under this PC-I.</p> <p>b) Execution of the Project</p> <p>a) PMDFC PMDFC has the project monitoring and supervisory role and the company has enough experts and staff to complete this assignment. PMDFC has already deployed under mentioned staff for these projects:</p> <ul style="list-style-type: none"> • Civil Engineers • Accounts, administration and audit personnel • Urban planners • GIS experts • Support staff like computer operators, vehicle drivers, office boys and guards. • Procurement experts • Communication experts 												

	<p>items of works included in these estimates /PC-I will be certified by these consultants.</p> <p>iv. Execution of the project</p> <ul style="list-style-type: none"> • The project will be executed by MC Jhang and supervised by the Consultants appointed by PMDFC in resident supervision mode. The technical staff & experts in PMDFC will oversee, coordinate and collaborate in the project planning, design and implementation through their experts in head office located in Lahore and regional offices. The reporting of progress to LG & CDD & World bank and troubleshooting will also be responsibility of PMDFC. • MO (I&S) of the MC has been designated as Project Manager /Engineer in Charge of the project. The supervision of the works will also be carried out by these municipal officers along with their support engineering staff. All supervisory staff is available with MC. • The procurement of works and goods will be done by Procurement Committee of Jhang Unit as per PPRA Rules. <p>v. Verification of quantities included in PC-Is and Resident Supervision of the works by consultants</p> <p>The works will be supervised by Supervision Consultants in resident supervision mode by assuring the quantity and quality of works. The consultants will verify the items of work and their quantities contained in the PC-Is and cost estimates initially and then the quantities and quality of works included in the contractor claims at the stage of payments. Payments will be made by the MC after these contractor claims have been entered in the measurement books by the Project Manager/Engineer in Charge and pre audited as per LG Works Rules.</p>
<p>ii)The manpower requirements by skills during execution and operation of the project and;</p> <p>The job description, qualification, experience, age and salary of each post</p>	<p>a) PMDFC experts and staff</p> <p>For rendering assistance in implementation of infrastructure projects in 16 MCs, PMDFC has the experts and staff in the required fields. In order to facilitate the Program Units, three regional offices have been established by PMDFC at Gujranwala, Faisalabad and Multan/Khanewal.</p> <p>b) Resident Supervision Consultants</p> <p>The project will be supervised by consultants. The tentative staff to be employed/deployed by the consultants for the certification of quantities of works and resident supervision of the project is given below:</p>

S #	Personnel	Nos	Qualification
1	Chief Resident Engineer/Team Leader	01	BSc;/BE in Civil engineering from HEC approved University with minimum 20 years' professional experience and 5 years' experience on similar assignment or MSC; Civil Engineering/Public Health Engineering/Environmental Engineering with Bachelor in Civil Engineering and minimum 15 years, experience, with 5 years on similar assignments on urban planning, designing and construction supervision assignment.
2	Assistant Resident Engineer	01	Bachelor Degree in Civil engineering with minimum 8 years' experience in site supervision and execution for projects of similar nature
3	Site Inspectors	01	DAE in Civil with minimum 10 years' experience in site supervision for projects of similar nature
4	Environment Specialist	01	Required Qualification and Experience 16 years of education in Environmental Sciences/Environmental Engineering from a HEC recognized university; Demonstrated experience of 05 years dealing with environment and social management and implementation ,preferably in WB funded projects; have sound knowledge of local laws/policies on environmental management, Environmental policies and procedures of WB and their compliance in field including monitoring and supervision of site-specific ESMMPs and EHS practices during projects execution and implementation.
5	Social Safeguards/Resettlement Specialist	01	Required Qualification and Experience 16 years of education in Sociology or Anthropology from a HEC recognized university; Demonstrated experience of at-least 05 years in dealing with social management and implementation, preferably in WB funded projects; have sound knowledge of local laws/policies and WB resettlement, social safeguards and gender policies and compliance of social safeguards and resettlement and abbreviated resettlement plans in infrastructure development projects.
<p>c) Contractor's Technical staff, skilled & non skilled labor The contractors will employ the supervisory technical staff and skilled & non skilled labor for execution of works. The works will be supervised by experienced Engineers and sub engineers and the number of slots for engineers and skilled and non-skilled will depend upon the type and quantity of work and its period of completion.</p> <p>d) Repair & maintenance of the project MC has its own regular staff which has been deployed for repair and maintenance of the municipal services infrastructure. However, it has been observed that the existing staff is not adequate to repair and</p>			

	<p>maintain the services in a manner which can give good service delivery. Hence it is proposed to;</p> <ul style="list-style-type: none"> • Fill up the presently vacant slots • Recruit additional staff as per need of the infrastructure after obtaining the sanctions from the competent authorities.
14-Additional projects /decisions required to optimize the investment being undertaken	<p>1) Shortage & frequent transfers of Provincially appointed staff MC is facing shortage in provincially appointed and locally appointed cadres. This will seriously affect the pace of progress of the program and the implementation of the infrastructure projects may be delayed. Provincial Government should fill up the vacant staff immediately for optimizing the investments in MC.</p> <p>2) Repair & Maintenance (R&M) staff The R&M staff is also deficient and this is adversely affecting the service delivery level. Number of slots are vacant but MC is not allowed to recruit the persons to fill these slots due to ban on recruitments.</p> <p>Further the sanctioned strength of the field staff is much lesser than the actual requirement because with the increase in population and extension of services, additionally required staff has not been sanctioned by the competent authorities.</p> <p>Both of the above issues need to be addressed for optimal utilization of the investments and giving targeted benefits to the resident population of these cities.</p>
15-Certificate	Certified that the project proposal has been prepared on the basis of guidelines provided by the Planning Commission for the preparation of PC-I for social sectors projects.

Prepared by	JERS Consultancy (Pvt) Ltd	Stamp & Signatures	
Checked by	Municipal Officer (Infrastructure) MC Jhang	Stamp & Signatures	
	Chief Officer MC Jhang	Stamp & Signatures	
Forwarded by	Administrator MC Jhang	Stamp & Signatures	
Vetted by	Senior Program Officer (PMDFC)	Stamp & Signatures	

Annexure-1

Annual Recurrent Cost

Annual Recurrent Cost after Completion of the Project

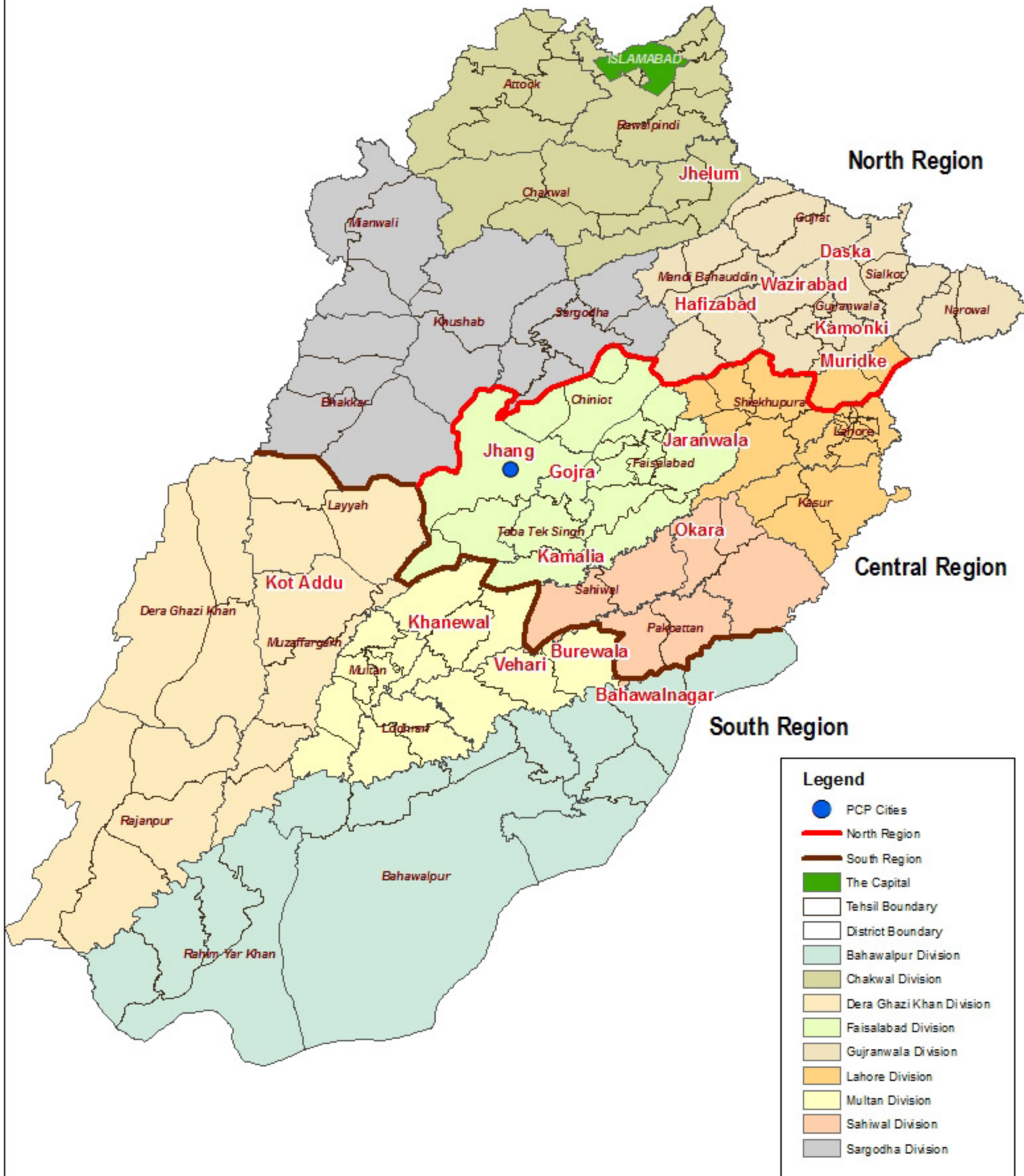
Cost Category	Cost Breakup	Cost per Annum
Annual Maintenance Cost of The Civil Works	1% of Project Cost = 0.01*(79,162,434)	791,624
Annual Manpower Cost of One Guard	Rs. 25,000/month	300,000
Total cost per Annum (Rs.)		1,091,624

Annexure-A

Location Map

Location Map (Punjab Cities Program)

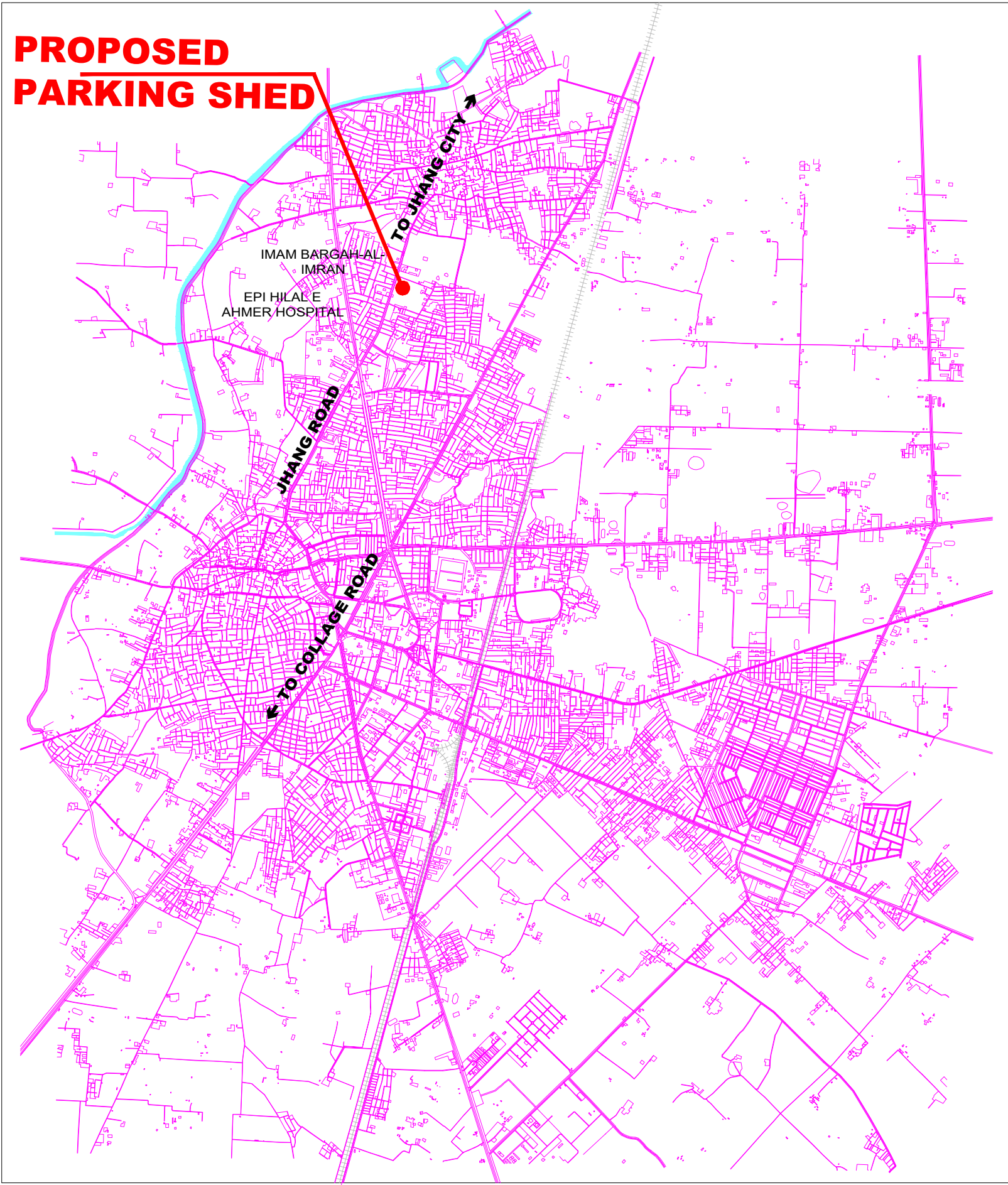
ANNEXURE - A



0 45 90 180 Kilometers



PROPOSED PARKING SHED



CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 19

DRAWING TITLE:
PROJECT KEY PLAN (JHANG)

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
SADAT WALEED
 DATE:
Oct,2022

DRAWING NO:
PS-01
 SCALE:
UNIT=FEET
1"=600'
 SHEET:
-
 JOB NO:
488-01

Annexure-B

Cost Estimate



Punjab Municipal Development Fund Company

**Consultancy Services for Detailed Design of Infrastructure
sub-projects (Parking Sheds, Parks, Roads, Chowks, etc.)
and Resident Supervision in 16 Cities of Punjab**

Construction of SWM Parking Area

MC Jhang

Detailed Cost Estimate

February 2023



JERS CONSULTANCY (PVT) LTD
(Formerly Jers Engineering Consultants)

24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)

Tel: +92 42 35113123, +92 42 35113124

Fax: +92 42 35113125

E-mail: info@jers.com.pk, mail@jers.com.pk

Web: <http://www.jers2pm.pk>



**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

SWM PARKING AREA (JHANG)

SUMMARY

Sr. No.	Description	Amount (Rs)
1	ADMIN BLOCK	
i	Civil Work	5,752,498
ii	Plumbing Work	346,483
iii	Electrical Work	263,367
2	GUARD ROOM	
i	Civil Work	456,530
ii	Plumbing Work	6,540
iii	Electrical Work	38,928
3	WORK SHOP	
i	Civil Work	3,477,285
ii	Plumbing Work	55,275
iii	Electrical Work	137,236
4	PARKING SHED (SIZE 105' x 32') (2 Nos.)	
i	Civil Work	24,275,924
ii	Electrical Work	362,014
5	PARKING SHED (SIZE 60' x 32')	
i	Civil Work	7,022,414
ii	Electrical Work	97,377
6	PARKING SHED (SIZE 108' x 16') (2 Nos.)	
i	Civil Work	11,211,650
ii	Electrical Work	238,449
7	WASHING PIT	1,878,498
8	EXTERNAL WORK (BOUNDARY WALL + TUFF PVER)	17,567,764
9	EJECTOR PUMP	266,725
10	EXTERNAL WATER SUPPLY	727,608
11	EXTERNAL SEWERAGE SYSTEM	788,811
12	SEPTIC TANK	168,503
13	DRAINAGE SYSTEM	284,193

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

SWM PARKING AREA (JHANG)

SUMMARY

Sr. No.	Description	Amount (Rs)
14	SILT HOLDING TANK	225,268
15	EXTERNAL ELECTRICAL WORK	3,400,669
16	ENVIRONMENTAL MITIGATION COST	112,425
	Total Rs.	79,162,434
	Contingencies @ 2%	1,583,249
	PRA Charges @ 5%	3,958,122
	Price Escalation @ 6%	4,749,746
	Total Amount. Rs.	89,453,551

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	2.85	11,658.25	33,226
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	4,347.66	9.90	43,042
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	4.75	29,723.50	141,187
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:-				
		Cement, sand mortar:- Ratio 1:5	100 Cft	22.91	29,928.60	685,664
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	4.35	9,240.05	40,194
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	5.80	6,900.05	40,020

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	25.51	32,331.00	824,764
		Concrete Work				
8	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	922.86	583.25	538,258
		Steel Work.				
9	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	26.38	31,946.30	842,743
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	14.20	2,982.00	42,344
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	4.69	9,768.00	45,812
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	2.37	38,723.50	91,775

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Porcelain Tile				
13	10/42/c	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		c) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	978.00	225.65	220,686
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	82.50	310.10	25,583
		Ceramic Tile				
15	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1:2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	442.00	255.50	112,931
16	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	1,208.75	310.10	374,833

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Marble				
17	10/47	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.				
		i) China Verona	Sft	83.75	496.95	41,620
		Slab Plaster				
18	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	14.20	3,963.30	56,279
		Cement Plaster				
19	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	49.91	4,650.85	232,124
		Pointing				
20	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100 Sft	19.80	3,776.40	74,773
21	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	19.80	822.00	16,276
		Distempering				
22	11/23	Distempering:-				
		iii) three coats	100 Sft	64.11	1,446.35	92,725
		Wooden Door				
23	12/52	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	Per Sft	241.50	795.70	192,162

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
24	25/51	Providing and fixing all types of partly fixed and partly openable glazed anodised/ powder coated aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge	Sft	68.00	1,549.35	105,356
		Formica Sheet				
25	Rate Analysis	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.	Sft	87.50	75.11	6,572
26	12/17	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge				
		(ii) 10.50 " wide	Sft	105.00	660.45	69,347
27	12/28	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.				
		b) Deodar wood	Sft	40.10	844.45	33,866
28	12/53	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	Rft	35.00	79.75	2,791
29	12/58	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.				
		b) Deodar wood architrave	Sft	30.00	100.50	3,015

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Lock				
30	12/22	Providing and fixing, approved quality mortice lock.	Each	14.00	774.00	10,836
		Paint				
31	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	4.83	1,460.05	7,052
		ii)Two coat	100 Sft	4.83	841.65	4,065
		Aluminium Window				
32	25/52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	Per Sft	145.00	1,336.55	193,800
		Roof Insulation				
33	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	16.15	11,779.95	190,246
		Roof Insulation				
34	9/45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, closed cell type structure) i/c cutting and placing in position. complete in all respect.				
		c) 2" thick	100 Sft	16.15	12,039.60	194,440
		Roof Insulation				
35	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		ii) 500 gauge (.005" thick)	Per Sft	3,230.00	8.65	27,940

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

ADMIN BLOCK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Khurras				
36	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	905.23	1,810
		Bottom Khuras				
37	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	2.00	1,900.60	3,801
38	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)	Cft	1,470.83	60.20	88,541
		Total Rs.				5,752,498

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Office wall 9" Thick Wall	1	250.00	3.00	3.00	2,250.00	Cft
	Center wall 4-1/2" Thick Wall	1	80.00	2.50	3.00	600.00	Cft
					Total	2,850.00	Cft
					Total	2.85	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Office wall 9" Thick Wall	1	250.00	9.00		2,250.00	Sft
	Center wall 4-1/2" Thick Wall	1	80.00	8.50		680.00	Sft
	Floor	1	52.75	26.88		1,417.66	Sft
					Total	4,347.66	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Office wall 9" Thick Wall	1	250.00	3.00	0.50	375.00	Cft
	Center wall 4-1/2" Thick Wall	1	80.00	2.50	0.50	100.00	Cft
					Total	475.00	Cft
					Total	4.75	%Cft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						
	Office wall 9" Thick Wall						
	Step - 1	1	250.00	2.250	0.50	281.25	Cft
	Step - 2	1	250.00	1.875	0.50	234.38	Cft
	Step - 3	1	250.00	1.500	0.50	187.50	Cft
	Step - 4	1	250.00	1.125	0.50	140.63	Cft
	Step - 5	1	250.00	0.750	5.00	937.50	Cft
	Center wall 4-1/2" Thick Wall						
	Step - 1	1	80.00	1.875	0.50	75.00	Cft
	Step - 2	1	80.00	1.500	0.50	60.00	Cft
	Step - 3	1	80.00	1.125	0.50	45.00	Cft
	Step - 4	1	80.00	0.750	5.50	330.00	Cft
					Total	2,291.25	Cft
					Total	22.91	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Office wall 9" Thick Wall	2	250.00	0.75		375.00	Sft
	Center wall 4-1/2" Thick Wall	1	80.00	0.75		60.00	Sft
					Total	435.00	Sft
					Total	4.35	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Office wall 9" Thick Wall	1	250.00		2.00	500.00	Sft
	Center wall 4-1/2" Thick Wall	1	80.00		1.00	80.00	Sft
					Total	580.00	Sft
					Total	5.80	%Sft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Office wall 9" Thick Wall	1	250.00	0.75	11.00	2,062.50	Cft
	Center wall 4-1/2" Thick Wall	1	80.00	0.75	11.00	660.00	Cft
	Parapet Wall	1	165.00	0.38	2.50	154.69	Cft
	Entrance step	2	10.00	1.00	0.75	15.00	Cft
	D/d Doors and Window						
	D-1	-3	3.50	0.75	7.00	(55.13)	Cft
	D-2	-3	3.00	0.75	7.00	(47.25)	Cft
	D-3	-1	2.50	0.75	7.00	(13.13)	Cft
	D-4	-7	2.50	0.75	5.00	(65.63)	Cft
	DW-1	-1	8.00	0.75	8.50	(51.00)	Cft
	W-1	-3	6.00	0.75	4.00	(54.00)	Cft
	W-2	-1	5.00	0.75	4.00	(15.00)	Cft
	W-3	-2	3.00	0.75	3.50	(15.75)	Cft
	V-1	-8	2.00	0.75	2.00	(24.00)	Cft
						Total	2,551.31 Cft
						Total	25.51 %Cft
	Concrete Work						
8	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	1,625.00	1.00	0.50	812.50	Cft
	Kitchen slab and Record room	1	25.00	2.00	0.50	25.00	Cft
	CB-1	1	50.00	0.75	0.75	28.13	Cft
	Doors and window Lintels						
	D-1	3	4.50	0.38	0.75	3.80	Cft
	D-2	33	4.00	0.75	0.75	6.75	Cft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	D-3	1	3.50	0.38	0.75	0.98	Cft
	D-4	7	3.50	0.38	0.75	6.89	Cft
	DW-1	1	10.00	0.75	0.75	5.63	Cft
	W-1	3	7.00	0.75	0.75	11.81	Cft
	W-2	1	6.00	0.75	0.75	3.38	Cft
	W-3	2	4.00	0.75	0.75	4.50	Cft
	V-1	8	3.00	0.75	0.75	13.50	Cft
						Total	922.86
							Cft
	Steel Work.						
9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)					922.86	Cft
	Top Slab & lintel @ 6 lbs / Cft		6.00		=	5,537.16	lbs/cft
				Total	=	5,537.16	lbs/cft
				Total	=	2,512.32	Kg.
				Add 5% Wastage.	=	125.62	Kg.
				Total	=	2,638	Kg
						Total	26.38
							%kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	1,420.00	1.00	1.00	1,420.00	Cft
					Total	1,420.00	Cft
						Total	14.20
							%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	1,420.00	1.00	0.33	468.60	Cft
					Total	468.60	Cft
						Total	4.69
							%Cft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Floor	1	1,420.00	1.00	0.17	236.67	Cft
						Total	2.37 %Cft
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	c) (Non-Skid Chequered Tiles) 300mmx300mm	1	978.00	1.00		978.00	Sft
						Total	978.00 Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	250.00	1.00	0.33	82.50	Sft
						Total	82.50 Sft
	Ceramic Tile						
15	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	442.00	1.00		442.00	Sft
						Total	442.00 Sft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
16	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over 1/2" thick (1:2) cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"						
	Washroom	10	5.50		5.00	275.00	Sft
		10	3.00		5.00	150.00	Sft
	Washroom	2	6.375		5.00	63.75	Sft
		2	5.00		5.00	50.00	Sft
	Changing Room	4	4.00		5.00	80.00	Sft
		4	4.75		5.00	95.00	Sft
	Lockers Area	2	9.50		5.00	95.00	Sft
		1	100.00		5.00	500.00	Sft
	D/d						
	D-3	-1	2.50		5.00	(12.50)	Sft
	D-4	-7	2.50		5.00	(87.50)	Sft
						Total	1,208.75
							Sft
	Marble						
17	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.						
	i) China Verona						
	W-1	3	6.00	0.75		13.50	Sft
	W-2	1	5.00	0.75		3.75	Sft
	W-3	2	3.00	0.75		4.50	Sft
	V-1	8	2.00	0.75		12.00	Sft
	Kitchen	1	25.00	2.00		50.00	Sft
						Total	83.75
							Sft
	Slab Plaster						
18	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	1,420.00	1.00		1,420.00	Sft
						Total	14.20
							%Sft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Cement Plaster						
19	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Office wall 9" Thick Wall	2	250.00		11.00	5,500.00	Sft
	Center wall 4-1/2" Thick Wall	2	80.00		11.00	1,760.00	Sft
	D/d outer wall	-1	165.00		11.00	(1,815.00)	Sft
	D/d Doors and Window						
	D-1	-3	3.50		7.00	(73.50)	Sft
	D-2	-3	3.00		7.00	(63.00)	Sft
	D-3	-1	2.50		7.00	(17.50)	Sft
	D-4	-7	2.50		5.00	(87.50)	Sft
	DW-1	-1	8.00		8.50	(68.00)	Sft
	W-1	-3	6.00		4.00	(72.00)	Sft
	W-2	-1	5.00		4.00	(20.00)	Sft
	W-3	-2	3.00		3.50	(21.00)	Sft
	V-1	-8	2.00		2.00	(32.00)	Sft
					Total	4,990.50	Sft
					Total	49.91	%Sft
	Pointing						
20	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2						
	Outer Walls	1	165.00		12.00	1,980.00	Sft
					Total	19.80	%Sft
21	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.				Total	19.80	%Sft
	Distempering						
22	Distempering:- iii) three coats						
	Office wall 9" Thick Wall	2	250.00		11.00	5,500.00	Sft
	Center wall 4-1/2" Thick Wall	2	80.00		11.00	1,760.00	Sft
	D/d outer wall	-1	165.00		11.00	(1,815.00)	Sft
	Slab	1	1,420.00	1.00		1,420.00	Sft
	D/d Doors and Window						
	D-1	-3	3.50		7.00	(73.50)	Sft
	D-2	-3	3.00		7.00	(63.00)	Sft
	D-3	-1	2.50		7.00	(17.50)	Sft
	D-4	-7	2.50		5.00	(87.50)	Sft
	DW-1	-1	8.00		8.50	(68.00)	Sft

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SUPERVISION IN 16 CITIES OF PUNJAB

ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	W-1	-3	6.00		4.00	(72.00)	Sft
	W-2	-1	5.00		4.00	(20.00)	Sft
	W-3	-2	3.00		3.50	(21.00)	Sft
	V-1	-8	2.00		2.00	(32.00)	Sft
					Total	6,410.50	Sft
					Total	64.11	%Sft
	Wooden Door						
23	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.						
	D-1	3	3.50		7.00	73.50	Sft
	D-2	3	3.00		7.00	63.00	Sft
	D-3	1	2.50		7.00	17.50	Sft
	D-4	7	2.50		5.00	87.50	Sft
					Total	241.50	Sft
24	Providing and fixing all types of partly fixed and partly openable glazed anodised/ powder coated aluminium doors, using delux section of M/s Al-Cop or Pakistan Cables, having chowkat frame of size 40 x 100 mm (1½" x 4") and leaf frame of 60x40mm (2½"x1½") wide sections including the cost of ¼" (5 mm) thick imported tinted glass with aluminium triangular gola and rubber gasket to support the glass and leaf edging, using approved standard fittings, locks, 3" (75 mm) wide long handles etc., and hardware any required as approved by the engineer in-charge						
	DW-1	1	8.00		8.50	68.00	Sft

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ADMIN BLOCK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Formica Sheet						
25	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.						
	D-4	7	2.50		5.00	87.50	Sft
26	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge						
	(ii) 10.50 " wide						
	D-1	3	17.50	0.875		45.94	Sft
	D-2	3	17.00	0.875		44.63	Sft
	D-3	1	16.50	0.875		14.44	Sft
					Total	105.00	Sft
27	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.						
	b) Deodar wood						
	D-4	7	12.50	0.46		40.10	Sft
					Total	40.10	Sft
28	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	14	2.50			35.00	Rft
29	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.						
	b) Deodar wood architrave						
	D-1	3	17.50	0.25		13.13	Sft
	D-2	3	17.00	0.25		12.75	Sft
	D-3	1	16.50	0.25		4.13	Sft
					Total	30.00	Sft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Lock						
30	Providing and fixing, approved quality mortice lock.	14				14.00	Each
	Paint						
31	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Two coat				Total	4.83	Sft
	Aluminium Window						
32	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge						
	W-1	3	6.00		4.00	72.00	Sft
	W-2	1	5.00		4.00	20.00	Sft
	W-3	2	3.00		3.50	21.00	Sft
	V-1	8	2.00		2.00	32.00	Sft
					Total	145.00	Sft
	Roof Insulation						
33	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.						
	Roof area	1	1,615.00	1.00		1,615.00	Sft
					Total	1,615.00	Sft
					Total	16.15	%Sft
34	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	3,230.00	Sft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Khurras						
35	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	2				2.00	Each
	Bottom Khuras						
36	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	2				2.00	Each

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DETAILED COST ESTIMATE

ADMIN BLOCK

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Indian W.C				
1	19-4-i	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.				
		i) white	Each	3.00	2,461.85	7,386
2	19-3	Providing and fitting one piece European Coupled set of Water Closet (WC) and flushing Cistern of PORTA brand (full size) i/c the cost of CP/rubber connection, thimble, normal seat cover and rawal bolts complete in all respects as approved and directed by the Engineer Incharge.	Each	2.00	35,817.00	71,634
3	19-13-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc.				
		i) white	Each	3.00	3,061.65	9,185
4	19-7-i	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	5.00	6,160.50	30,803
5	19-8	Providing and fixing stainless steel sink with drain board, size 120x60 cm (48"x24") including bracket set, waste pipe and waste coupling.	Each	1.00	7,747.55	7,748
6	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	6.00	2,477.00	14,862
7	19-16	Providing and fixing, chromium plated soap dish.	Each	5.00	538.60	2,693
8	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	5.00	800.30	4,002
9	19-27	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	5.00	1,081.60	5,408
10	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	15.00	1,081.60	16,224
11	19-34-i	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:-				

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ADMIN BLOCK

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		i) 10x5 cm (4"x2")	Each	8.00	670.20	5,362
12	19-36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	2.00	1,178.75	2,358
13	19-35-ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	10.00	323.25	3,233
		PPRC Pipe				
14	23-47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular/Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(i) (1/2") 20 mm	Rft	50.00	48.75	2,438
		(ii) (3/4") 25 mm	Rft	70.00	67.15	4,701
		(iii) (1") 32 mm	Rft	25.00	107.65	2,691
		(iv) (1-1/4") 40 mm	Rft	25.00	162.05	4,051
		G.I Pipe on Roof				
15	23-23	Providing, laying, cutting, jointing, testing and disinfecting G.I. pipeline in trenches, with socket joints, using G.I. pipes of B.S.S. 1387-1967 complete in all respects, with specials and valves.				
		iii) Heavy Quality b) 3/4" i/d (20 mm) 3.25mm thick	Rft	75.00	279.15	20,936
		Valve				
16	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	2.00	1,545.60	3,091
		iii) 1" dia	Each	2.00	1,809.60	3,619

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ADMIN BLOCK

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		uPVC Pipe				
17	19-47	Providing, fixing, testing and commissioning of μ -PVC (Unplasticized polyvinyl Chloride)Nikasi /waste pipe make of dadex/Popular/Beta/BBJ plain/socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio)including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge				
		Type (SDR 41/SN-4)				
		(iii) 2"(60 mm)	Rft	20.00	89.25	1,785
		(v) 4"(110 mm)	Rft	100.00	218.00	21,800
		(vi) 6"(160 mm)	Rft	10.00	422.55	4,226
		HDPE Tank				
18	19/51	Providing and hoisting vertical /horizontal type storage tank of required capacity made of rotationally molded from (HDPE), double ply polyethelene of approved manufacturer i/c cost of making connection for inlet/outlet pipe, float valve i/c all cost of specials & labour complete in all respect as approved and directed by the Engineer Incharge.	P.Gln	500	117.30	58,650
		Total Rs. (A)				308,882
		Non-Schedule Item				
19	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	2.00	18,800.57	37,601
		Total Rs. (B)				37,601
		Total Amount Rs. (A + B)				346,483

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DETAILED COST ESTIMATE

ADMIN BLOCK

ELECTRICAL WORKS

Sr. No.	2nd Bi-Annual-2022 (July to Dec) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	500.00	86.40	43,200
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	320.00	101.60	32,512
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	950.00	27.85	26,458
4	C-24/10a.ii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	340.00	23.70	8,058
5	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	260.00	44.05	11,453
6	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	14.00	296.00	4,144
7	C-24/14-ii	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (7"x4")	Each	2.00	409.95	820

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ADMIN BLOCK

ELECTRICAL WORKS

Sr. No.	2nd Bi-Annual-2022 (July to Dec) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	16.00	96.95	1,551
9	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	18.00	167.75	3,020
10	C-24/43-	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete				
	C-24/43-i	Double rod (80 watts) with two chokes and 2 starters.	Each	20.00	2,579.25	51,585
	C-24/43-ii	Single rod (40 watts) with one choke and one starter.	Each	15	1,444.20	21,663
11	C-24/102/a	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas /G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
		(a) Plastic body (ii) 12 " dia	Each	5.00	3,380.85	16,904
		Sub Total (A)				221,367
12	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	6.00	7,000.00	42,000
		Sub Total (B)				42,000
		Sub Total (A+B)				263,367

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GUARD ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.32	11,658.25	3,731
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	169.00	9.90	1,673
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.53	29,723.50	15,753
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	2.49	29,928.60	74,522
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	0.53	9,240.05	4,897
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm) 47	100 Sft	0.70	6,900.05	4,830

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GUARD ROOM

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	2.59	32,331.00	83,737
		Concrete Work				
8	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	53.28	583.25	31,076
		Steel Work.				
9	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	1.71	31,946.30	54,628
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	0.64	2,982.00	1,908
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	0.21	9,768.00	2,051

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	0.11	38,723.50	4,260
		Porcelain Tile				
13	10/42/d	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		d) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	64.00	225.65	14,442
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	10.56	310.10	3,275
		Slab Plaster				
15	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	0.64	3,963.30	2,537
		Cement Plaster				
16	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	2.80	4,650.85	13,022
		Pointing				
17	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100 Sft	4.56	3,776.40	17,220
18	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	4.56	822.00	3,748

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Distempering				
19	11/23	Distempering:- iii) three coats	100 Sft	3.44	1,446.35	4,975
		Steel Door				
20	25/62	P/F Iron door comprising of specified leaves made of 1-1/4"x1- 1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge.				
		(i) Single Leaf	Per Sft	24.50	1,030.85	25,256
21	12/17	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed / welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge				
		(ii) 10.50 " wide	Sft	15.31	660.45	10,113
		Aluminium Window				
22	25/52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	Per Sft	32.00	1,336.55	42,770

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Marble				
23	10/47	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortar i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.				
		i) China Verona	Sft	6.00	496.95	2,982
		Roof Insulation				
24	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	0.90	11,779.95	10,602
25	9/45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, closed cell type structure) i/c cutting and placing in position. complete in all respect.				
		c) 2" thick	100 Sft	0.90	12,039.60	10,836
26	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		ii) 500 gauge (.005" thick)	Per Sft	90.00	8.65	779
		Khurras				
27	9/15	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	905.30	905
		Bottom Khurras				
28	9/16	Bottom Khurras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	1.00	1,900.60	1,901

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
29	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)	Cft	106.80	75.85	8,100
		Total Amount Rs.				456,530

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Room wall	1	35.00	3.00	3.00	315.00	Cft
					Total	315.00	Cft
					Total	0.32	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Room wall	1	35.00	3.00		105.00	Sft
	Floor	1	8.00	8.00		64.00	Sft
					Total	169.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Room wall	1	35.00	3.00	0.50	52.50	Cft
					Total	52.50	Cft
					Total	0.53	%Cft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Room wall						
	Step - 1	1	35.00	2.250	0.50	39.38	Cft
	Step - 2	1	35.00	1.875	0.50	32.81	Cft
	Step - 3	1	35.00	1.500	0.50	26.25	Cft
	Step - 4	1	35.00	1.125	0.50	19.69	Cft
	Step - 5	1	35.00	0.750	5.00	131.25	Cft
					Total	249.38	Cft
					Total	2.49	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Room wall	2	35.00	0.75		52.50	Sft
					Total	52.50	Sft
					Total	0.53	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Room wall	1	35.00		2.00	70.00	Sft
					Total	70.00	Sft
					Total	0.70	%Sft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Room wall	1	35.00	0.75	10.50	275.63	Cft
	Parapet Wall	1	35.00	0.38	1.50	19.69	Cft
	Entrance step	2	4.00	1.00	0.75	6.00	Cft
	D/d Doors and Window						
	D-1	-1	3.50	0.75	7.00	(18.38)	Cft
	W-1	-2	4.00	0.75	4.00	(24.00)	Cft
					Total	258.94	Cft
					Total	2.59	%Cft
	Concrete Work						
8	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	9.50	9.50	0.50	45.13	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.75	0.75	2.53	Cft
	W-1	2	5.00	0.75	0.75	5.63	Cft
					Total	53.28	Cft

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Steel Work.						
9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)					53.28	Cft
	Top Slab & lintel @ 6.75 lbs / Cft		6.75		=	359.65	lbs/cft
				Total	=	359.65	lbs/cft
				Total	=	163.18	Kg.
				Add 5% Wastage.	=	8.16	Kg.
				Total	=	171	Kg
						Total	1.71 %kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	8.00	8.00	1.00	64.00	Cft
					Total	64.00	Cft
					Total	0.64	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	8.00	8.00	0.33	21.12	Cft
					Total	21.12	Cft
					Total	0.21	%Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Floor	1	8.00	8.00	0.17	10.67	Cft
					Total	0.11	%Cft

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	d) (Non-Skid Chequered Tiles) 300mmx300mm	1	8.00	8.00		64.00	Sft
						Total	64.00 Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	32.00		0.33	10.56	Sft
						Total	10.56 Sft
	Slab Plaster						
15	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	8.00	8.00		64.00	Sft
						Total	0.64 %Sft
	Cement Plaster						
16	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Guard Room	2	8.00		10.50	168.00	Sft
		2	8.00		10.50	168.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	W-1	-2	4.00		4.00	(32.00)	Sft
						Total	279.50 Sft
						Total	2.80 %Sft

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Pointing						
17	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2						
	Outer Walls	1	38.00		12.00	456.00	Sft
					Total	456.00	Sft
					Total	4.56	%Sft
18	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	4.56	%Sft
	Distempering						
19	Distempering:-						
	iii) three coats						
	Guard Room						
		2	8.00		10.50	168.00	Sft
		2	8.00		10.50	168.00	Sft
	Ceiling	1	8.00	8.00		64.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	W-1	-2	4.00		4.00	(32.00)	Sft
					Total	343.50	Sft
					Total	3.44	%Sft
	Wooden Door						
20	P/F Iron door comprising of specified leaves made of 1-1/4"x1- 1/4"x3/16" MS angle iron for leaf frame, diagonal and horizontal braces duly welded with MS. sheet 18-SWG i/c the cost of sliding bolt, tower bolt and painting 3-coats but excluding the cost of Chowkat complete in all respect as approved and directed by the Engineer incharge.						
	D-1	1	3.50		7.00	24.50	Sft
					Total	24.50	Sft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
21	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed / welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge						
	(ii) 10.50 " wide	1	17.50	0.875		15.31	Sft
					Total	15.31	Sft
	Aluminium Window						
22	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge						
	W-1	2	4.00		4.00	32.00	Sft
					Total	32.00	Sft
	Marble						
23	Providing and laying 3/4" thick full width Prepolished Marble slab for Vanities / Shelves / Treads/Window Cills , having Uniform texture (Spotless) with adhesive bond over 3/4" thick (1:2) cement sand mortor i/c the cost of matching sealer complete in all respects as approved and directed by the Engineer Incharge.						
	i) China Verona	2	4.00	0.75		6.00	Sft

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Roof Insulation						
24	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.						
	Roof area	1	9.50	9.50		90.25	Sft
					Total	90.25	Sft
					Total	0.90	%Sft

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GUARD ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
25	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)					Total	90.00
							Sft
	Khurras						
26	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each
	Bottom Khuras						
27	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	1				1.00	Each

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DETAILED COST ESTIMATE

GUARD ROOM

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		uPVC Pipe				
1	19-47	Providing, fixing, testing and commissioning of μ -PVC (Unplasticized polyvinyl Chloride)Nikasi /waste pipe make of dadex/Popular/Beta/BBJ plain/socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio)including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge				
		Type (SDR 41/SN-4)				
		(v) 4"(110 mm)	Rft	30.00	218.00	6,540
		Cost of 1 No.				6,540.00

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GUARD ROOM						
ELECTRICAL WORKS						
Sr. No.	2nd Bi-Annual-2022 (July to Dec) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		Scheduled Items (A)				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	150.00	86.40	12,960
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	50.00	101.60	5,080
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	150.00	27.85	4,178
4	C-24/10a.ii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	50.00	23.70	1,185
	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)		100.00	44.05	4,405
5	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	1.00	296.00	296
6	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	1.00	96.95	97
7	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	5.00	167.75	839
8	C-24/43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete				
	ii	Single rod (40 watts) with one choke and one starter.	Each	2.00	1,444.20	2,888
		Sub Total (A)				31,928
9	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	1.00	7,000.00	7,000
		Sub Total (B)				7,000
		Sub Total (A+B)				38,928

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.49	11,658.25	5,713
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	606.75	9.90	6,007
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.81	29,723.50	24,076
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:-				
		Cement, sand mortar:- Ratio 1:5	100 Cft	3.90	29,928.60	116,722
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	0.77	9,240.05	7,115
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	1.03	6,900.05	7,107

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	4.71	32,331.00	152,279
		Concrete Work				
8	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	80.58	583.25	46,997
		Steel Work.				
9	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	2.30	31,946.30	73,476
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	1.10	2,982.00	3,280
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	0.36	9,768.00	3,516
		Plain Cement Concrete				
12	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		Ratio 1: 2: 4	100 Cft	0.18	38,723.50	6,970

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Porcelain Tile				
13	10/42/c	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		c) (Non-Skid Chequered Tiles) 300mmx300mm	Per Sft	110.44	225.65	24,921
14	10/43/a	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.				
		a) Full body Glazed Tile				
		(i) 400 mm x 400 mm	Per Sft	14.52	310.10	4,503
		Ceramic Tile				
15	10/24	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	17.00	255.50	4,344
16	10/25	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.				
		i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	Per Sft	70.00	310.10	21,707

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CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Slab Plaster				
17	11/10/b	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)	100 Sft	1.10	3,963.30	4,360
		Cement Plaster				
18	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	6.45	4,650.85	29,998
		Pointing				
19	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	5.64	3,776.40	21,299
20	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	5.64	822.00	4,636
		Distempering				
21	11/23	Distempering:- iii) three coats	100 Sft	12.72	1,446.35	18,398
		Wooden Door				
22	12/52	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.	Per Sft	42.00	795.70	33,419
		Formica Sheet				
23	Rate Analysis	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.	Sft	17.50	75.11	1,314

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
24	12/17	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge				
		(ii) 10.50 " wide	Sft	15.31	660.45	10,113
25	12/28	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.				
		b) Deodar wood	Sft	7.56	844.45	6,386
26	12/53	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	Rft	5.00	79.75	399
27	12/58	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.				
		b) Deodar wood architrave	Sft	4.38	100.50	440
		Lock				
28	12/22	Providing and fixing, approved quality mortice lock.	Each	2.00	774.00	1,548
		Paint				
29	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	0.84	1,460.05	1,226
		ii)Two coat	100 Sft	0.84	841.65	707

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DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Aluminium Window				
30	25/52	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge	Per Sft	20.00	1,336.55	26,731
		Roof Insulation				
31	9/5	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.	100 Sft	1.46	11,779.95	17,199
		Roof Insulation				
32	9/45	Providing and Laying Insulation material of Extruded Polystyrene XPS in Rigid Insulation / Foam Board on roof or walls, Density 32-38Kg/M, compressive strength 250-400 kpa, R-value 5 per inch thickness and water absorption (1% by volume, closed cell type structure) i/c cutting and placing in position. complete in all respect.				
		c) 2" thick	100 Sft	1.46	12,039.60	17,578
		Roof Insulation				
33	26/37/ii	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.				
		ii) 500 gauge (.005" thick)	Per Sft	292.00	8.65	2,526
		Khurras				
34	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	2.00	905.23	1,810
		Bottom Khuras				
35	9/16	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	Each	2.00	1,900.60	3,801

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DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Shed				
		Excavation				
36	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	1.86	11,658.25	21,684
		Anti-Termite				
37	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	818.00	9.90	8,098
		Plain Cement Concrete				
38	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	1.16	29,723.50	34,479
		Concrete Work				
39	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(2) Type C (nominal mix 1: 2: 4) 70	P.Cft	540.98	473.85	256,341

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
40	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	30.93	31,946.30	988,099
		Brick work in Foundation				
41	7/4/i	Pacca brick work in foundation and plinth in:-				
		Cement, sand mortar:- Ratio 1:5	100 Cft	4.80	29,928.60	143,657
		Cement Plaster				
42	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:-				
		3/4" (20 mm) thick	100 Sft	2.03	4,650.85	9,441
		Sand Filling				
43	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	4.80	2,982.00	14,314
		Sub Base Course				
44	18/3/a/ (ii) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	1.58	16,138.95	25,500

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WORK SHOP

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
45	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	1.58	21,253.90	33,581
		Tuff Paver				
46	10/41	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)				
		c) 80-mm thick	Per Sft	480.00	197.4	94,752
47	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)	Cft	749.50	60.20	45,118
		Parking Shed				
48	N.S	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	480.00	2,270.00	1,089,600
		72 Total Rs.				3,477,285

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Office wall 9" Thick Wall	1	47.00	3.00	3.00	423.00	Cft
	Center wall 4-1/2" Thick Wall	1	8.63	2.50	3.00	64.69	Cft
					Total	487.69	Cft
					Total	0.49	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Office wall 9" Thick Wall	1	47.00	9.00		423.00	Sft
	Center wall 4-1/2" Thick Wall	1	8.63	8.50		73.31	Sft
	Floor	1	7.75	14.25		110.44	Sft
					Total	606.75	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Office wall 9" Thick Wall	1	47.00	3.00	0.50	70.50	Cft
	Center wall 4-1/2" Thick Wall	1	8.63	2.50	0.50	10.78	Cft
					Total	81.28	Cft
					Total	0.81	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Office wall 9" Thick Wall						
	Step - 1	1	47.00	2.250	0.50	52.88	Cft
	Step - 2	1	47.00	1.875	0.50	44.06	Cft
	Step - 3	1	47.00	1.500	0.50	35.25	Cft
	Step - 4	1	47.00	1.125	0.50	26.44	Cft
	Step - 5	1	47.00	0.750	5.00	176.25	Cft
	Center wall 4-1/2" Thick Wall						
	Step - 1	1	8.63	1.875	0.50	8.09	Cft
	Step - 2	1	8.63	1.500	0.50	6.47	Cft
	Step - 3	1	8.63	1.125	0.50	4.85	Cft
	Step - 4	1	8.63	0.750	5.50	35.58	Cft
					Total	389.86	Cft
					Total	3.90	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Office wall 9" Thick Wall	2	47.00	0.75		70.50	Sft
	Center wall 4-1/2" Thick Wall	1	8.63	0.75		6.47	Sft
					Total	76.97	Sft
					Total	0.77	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Office wall 9" Thick Wall	1	47.00		2.00	94.00	Sft
	Center wall 4-1/2" Thick Wall	1	8.63		1.00	8.63	Sft
					Total	102.63	Sft
					Total	1.03	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Office wall 9" Thick Wall	1	47.00	0.75	11.00	387.75	Cft
	Center wall 4-1/2" Thick Wall	74	8.63	0.75	11.00	71.16	Cft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Parapet Wall	1	47.00	0.38	2.50	44.06	Cft
	Entrance step	2	10.00	1.00	0.75	15.00	Cft
	D/d Doors and Window						
	D-1	-1	3.50	0.75	7.00	(18.38)	Cft
	D-2	-1	2.50	0.75	7.00	(13.13)	Cft
	W-1	-1	4.00	0.75	4.00	(12.00)	Cft
	V-1	-1	2.00	0.75	2.00	(3.00)	Cft
						Total	471.47 Cft
						Total	4.71 %Cft
	Concrete Work						
8	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Top Slab	1	9.25	15.75	0.50	72.84	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.38	0.75	1.27	Cft
	D-2	1	3.50	0.75	0.75	1.97	Cft
	W-1	1	5.00	0.75	0.75	2.81	Cft
	V-1	1	3.00	0.75	0.75	1.69	Cft
						Total	80.58 Cft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Steel Work.						
9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)					80.58	Cft
	Top Slab & lintel @ 6 lbs / Cft		6.00		=	483.47	lbs/cft
				Total	=	483.47	lbs/cft
				Total	=	219.36	Kg.
				Add 5% Wastage.	=	10.97	Kg.
				Total	=	230	Kg
						Total	2.30 %kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	7.75	14.25	1.00	110.44	Cft
					Total	110.44	Cft
					Total	1.10	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	7.75	14.25	0.33	36.44	Cft
					Total	36.44	Cft
					Total	0.36	%Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Floor	1	7.75	14.25	0.17	18.41	Cft
					Total	0.18	%Cft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Porcelain Tile						
13	Providing and laying superb quality Porcelain glazed tiles flooring of MASTER brand of specified size in approved design, Color and Shade with adhesive / bond over 3/4" thick (1:3)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	c) (Non-Skid Chequered Tiles) 300mmx300mm	1	7.75	14.25		110.44	Sft
					Total	110.44	Sft
14	Providing and laying superb quality Porcelain glazed tiles of Master brand, skirting/ dado of specified size, Color and Shade with adhesive/ bond over 1/2" thick (1:2)cement plaster i/c the cost of and sealer for finishing the joints, cutting grinding complete in all respect as approved and directed by the Engineer Incharge.						
	a) Full body Glazed Tile						
	(i) 400 mm x 400 mm	1	44.00	1.00	0.33	14.52	Sft
					Total	14.52	Sft
	Ceramic Tile						
15	Providing and laying superb quality Ceramic tile floors of Master brand of specified size, Glossy/Matt/Texture of approved Color and Shade as per approved design with adhesive bond, over 3/4" thick (1;2) cement sand plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects and as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36"	1	4.25	4.00		17.00	Sft
					Total	17.00	Sft
16	Providing and laying superb quality Ceramic tiles dado of Master brand of specified size, Glossy/Matt/Texture skirting / dado of approved Color and Shade with adhesive bond over1/2" thick (1:2)cement plaster i/c the cost of sealer for finishing the joints i/c cutting grinding complete in all respects as approved and directed by the Engineer Incharge.						
	i) 12"x18"/12"x24"/10"x24" /8"x24"/12"x36" 77						

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Washroom	1	14.00		5.00	70.00	Sft
					Total	70.00	Sft
	Slab Plaster						
17	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	7.75	14.25		110.44	Sft
					Total	1.10	%Sft
	Cement Plaster						
18	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Office wall 9" Thick Wall	1	47.00		11.00	517.00	Sft
	Center wall 4-1/2" Thick Wall	2	8.63		11.00	189.75	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	D-2	-1	2.50		7.00	(17.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	644.75	Sft
					Total	6.45	%Sft
	Pointing						
19	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2						
	Outer Walls	1	47.00		12.00	564.00	Sft
					Total	5.64	%Sft
20	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	5.64	%Sft
	Distempering						
21	Distempering:- iii) three coats						
	Office wall 9" Thick Wall	2	47.00		11.00	1,034.00	Sft
	Center wall 4-1/2" Thick Wall	2	8.63		11.00	189.75	Sft
	Slab	1	7.75	14.25		110.44	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	D-2	-1	2.50		7.00	(17.50)	Sft

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	W-1	-1	4.00		4.00	(16.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	1,272.19	Sft
					Total	12.72	%Sft
	Wooden Door						
22	P/F 1-1/2" thick solid flush door comprising of 2.5 mm thick Deodar/Ash/Oak ply with grooves , compressed over 2.5 mm thick commercial ply over 1" thick packing wood in style and rails under proper pressure i/c the cost of nails, tower bolt , handles, glue, sawing charges and lacquar polishing to show the grains of ply properly, sand papering and 3/8" thick matching wooden lipping as approved and directed by the Engineer Incharge.						
	D-1	1	3.50		7.00	24.50	Sft
	D-2	1	2.50		7.00	17.50	Sft
					Total	42.00	Sft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Formica Sheet						
23	Providing and fixing Formica sheet on bathroom door as per drawing and design complete in all respect.						
	D-2	1	2.50		7.00	17.50	Sft
24	Providing and fixing 2" wide MS/ GI Chowkat singel/double rebate made of 16 SWG MS sheet pressed/welded / supported with M.S. flat 1-1/4"x1/8" i/c 6"long M.S. Flat 1"x1/8"hold fasts (6-Nos) welded/screwed, punching of lock hole covered with MS Box,coating with antirust paint including filling with cement sand mortar (1:8) and embedding hold fast in cement concrete (1:2:4) ,complete in all respect as approved and directed by Engineer Incharge						
	(ii) 10.50 " wide						
	D-1	1	17.50	0.875		15.31	Sft
					Total	15.31	Sft
25	Providing and fixing 3"x4-1/2" chowkat for doors, windows and C. windows, including holdfast, etc.						
	b) Deodar wood						
	D-2	1	16.50	0.46		7.56	Sft
					Total	7.56	Sft
26	Providing and laying 24 SWG aluminum kick plate 4" (100 mm) high, fixed with screws 4" (100 mm) centre to centre, on bottom rail of flush doors only of commercial ply.	2	2.50			5.00	Rft
27	Providing and fixing ornamental wooden architrave 3" x (1½" tapered to ¼") all along the door frame complete in all respect.						
	b) Deodar wood architrave						
	D-1	1	17.50	0.25		4.38	Sft
					Total	4.38	Sft

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Lock						
28	Providing and fixing, approved quality mortice lock.	2				2.00	Each
	Paint						
29	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Two coat					Total	0.84
							Sft
	Aluminium Window						
30	Providing and fitting all types of glazed aluminium windows of anodised/ powder coated partly fixed and partly sliding using delux sections of approved manufacturer having frame size of 100 x 30 mm (4"x1-1/4") and leaf frame sections of 50 x 20 mm (2"x3/4"), all of 1.6mm thickness including 5 mm thick imported tinted glass with rubber gasket using approved standard latches, hardware etc., as approved by the Engineer in-charge						
	W-1	1	4.00		4.00	16.00	Sft
	V-1	1	2.00		2.00	4.00	Sft
						Total	20.00
							Sft
	Roof Insulation						
31	Single layer of tiles 9"x4½"x1½" (225x113x40 mm) laid over 4"(100 mm) earth and 1" (25 mm) mud plaster without Bhoosa, grouted with cement sand 1:3 on top of RCC roof slab, provided with 34 lbs. per %Sft. or 1.72 Kg/Sq.m bitumen coating sand blinded.						
	Roof area	1	9.25	15.75		145.69	Sft
					Total	145.69	Sft
					Total	1.46	%Sft
32	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)					Total	292.00
							Sft
	Khurras						
33	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	2				2.00	Each

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Bottom Khuras						
34	Bottom Khuras of brick masonry in cement mortar 1:6, 4'x2'x4½" (1200x600x113 mm) over 3" (75 mm) cement concrete 1:4:8.	2				2.00	Each
	Excavation						
35	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	2	13.00	13.00	4.00	1,352.00	Cft
	Workshop Pit	1	20.00	4.75	5.33	506.35	Cft
					Total	1,858.35	Cft
					Total	1.86	%oCft
	Anti-Termite						
36	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	15.00	32.00		480.00	Sft
	Columns	2	13.00	13.00		338.00	Sft
					Total	818.00	Sft
	Plain Cement Concrete						
37	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	2	13.00	13.00	0.25	84.50	Cft
	Workshop Pit	1	20.00	4.75	0.33	31.35	Cft
					Total	115.85	Cft
					Total	1.16	%Cft
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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
38	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	Columns Footing	2	12.00	12.00	1.50	432.00	Cft
	Workshop Pit	1	20.00	4.75	0.33	31.35	Cft
	Columns	2	3.00	1.50	6.75	60.75	Cft
	Plinth beam	1	15.00	0.75	1.50	16.88	Cft
					Total	540.98	Cft
	Steel Work.						
39	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)					540.98	Cft
	Columns @ 12 lbs / Cft		12.00		=	6,492	lbs/cft
				Total	=	6,492	lbs/cft
				Total	=	2,945	Kg.
				Add 5% Wastage.	=	147	Kg.
				Total	=	3,093	Kg
					Total	30.93	%kg
	Brick work in Foundation						
40	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
		1	45.00	1.125	4.50	227.81	Cft
					Total	2.28	%Cft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Cement Plaster						
41	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	1	45.00		4.50	202.50	Sft
					Total	2.03	%Sft
	Sand Filling						
42	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	15.00	32.00	1.00	480.00	Cft
					Total	480.00	Cft
					Total	4.80	%Cft
	Sub Base Course						
43	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	15.00	32.00	0.33	158.40	Cft
					Total	1.58	%Cft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Water Bound Macadam						
44	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	15.00	32.00	0.33	158.40	Cft
					Total	1.58	%Cft
45	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)						
	Shed	1	15.00	32.00		480	Sft
	Parking Shed						
46	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.						
		1	15.00	32.00		480	Sft

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DETAILED COST ESTIMATE

WORK SHOP

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Qty.	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Indian W.C				
1	19-4-i	Providing and fitting glazed earthen ware water closet, squatter type (Orisa pattern), combined with foot rest.				
		i) white	Each	1.00	2,461.85	2,462
2	19-13-i	Providing and fitting plastic made low down flushing cistern 13.63 litre (3 gallons) capacity, including bracket set, copper connection, etc. complete.				
		i) white	Each	1.00	3,061.65	3,062
3	19-7-i	Providing and fitting glazed earthen ware wash hand basin 56x40 cm (22"x16") including bracket set, waste pipe and waste coupling, etc.				
		i) white, with pedestal	Each	1.00	6,160.50	6,161
4	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	1.00	2,477.00	2,477
5	19-16	Providing and fixing, chromium plated soap dish.	Each	1.00	538.60	539
6	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	1.00	800.30	800
7	19-27	Providing and fixing chromium plated bib cock:- i) 2 cm (¾")	Each	1.00	1,081.60	1,082
8	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	3.00	1,081.60	3,245
9	19-34-i	Providing and fixing, floor trap of cast iron, including concrete chamber all round, and C.I. grating:- i) 10x5 cm (4"x2")	Each	1.00	670.20	670
10	19-36	Providing and fitting 10 cm (4") gully trap, including cement concrete, cost of PVC grating 15x15 cm (6"x6") and masonry chamber 30x30 cm (12"x12").	Each	1.00	1,178.75	1,179
11	19-35-ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	2.00	323.25	647

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DETAILED COST ESTIMATE

WORK SHOP

PLUMBING WORKS

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Qty.	Unit Rate (Rs)	Amount (Rs)
		PPRC Pipe				
12	23-47	Providing, laying, testing and commissioning of POLYPROPYLENE RANDOM COPOLYMER (PPRC) water supply pipe made of (Dadex/ Popular /Beta/ BBJ) with specified pressure rating PN (PRESSURE NOMINAL) and conforming to DIN8077-8078 code i/c cost of solvent, specials, making jharries complete in all respect as approved and directed by Engineer Incharge. (Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(i) (1/2") 20 mm	Rft	40.00	48.75	1,950
		(ii) (3/4") 25 mm	Rft	25.00	67.15	1,679
		Valve				
13	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		ii) 3/4" dia	Each	2.00	1,545.60	3,091
		uPVC Pipe				
14	19-47	Providing, fixing, testing and commissioning of u-PVC (Unplasticized polyvinyl Chloride) Nikasi /waste pipe make of dadex/Popular/Beta/BBJ plain/ socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge				
		Type (SDR 41/SN-4)				
		(iii) 2"(60 mm)	Rft	10.00	89.25	893
		(v) 4"(110 mm)	Rft	30.00	218.00	6,540
		Total Rs. (A)				36,474
		Non-Schedule Item				
15	N.S	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	1.00	18,800.57	18,801
		Total Rs. (B)				18,801
		Total Amount Rs. (A + B)				55,275

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DETAILED COST ESTIMATE

WORK SHOP

ELECTRICAL WORKS

Sr. No.	2nd Bi-Annual-2022 (July to Dec) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-ii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (20 mm i/d)	Rft.	400.00	86.40	34,560
2	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	250.00	101.60	25,400
3	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	190.00	27.85	5,292
4	C-24/10a.ii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	350.00	23.70	8,295
5	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	325.00	44.05	14,316
6	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	2.00	296.00	592
7	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	2.00	96.95	194
8	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	7.00	167.75	1,174

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DETAILED COST ESTIMATE

WORK SHOP

ELECTRICAL WORKS

Sr. No.	2nd Bi-Annual-2022 (July to Dec) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	C-24/43-ii	Single rod (40 watts) with one choke and one starter.	Each	3	1,444.20	4,333
10	C-24/102/a	Providing and fixing Copper winded Exhaust fan with louver and shutter made of Pak/Younas /G.F.C. i/c the cost of necessary cable and hardware for connection from ceiling rose complete as approved and directed by Engineer Incharge.				
		(a) Plastic body (ii) 12 " dia	Each	1.00	3,380.85	3,381
Sub Total (A)						97,536
11	N.S	Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	1.00	7,000.00	7,000
11	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50Wwith all accessories complete in all respects	Each	3.00	10,900.00	32,700
Sub Total (B)						39,700
Sub Total (A+B)						137,236

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 105' x 32')

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	3.38	11,658.25	39,405
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	4,205.00	9.90	41,630
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	2.11	29,723.50	62,717
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(2) Type C (nominal mix 1: 2: 4) 90	P.Cft	1,350.00	473.85	639,698

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 105' x 32')

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	77.18	31,946.30	2,465,615
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	33.60	2,982.00	100,195
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	11.09	16,138.95	178,981
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	11.09	21,253.90	235,706

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 105' x 32')

CIVIL WORK

Sr. No.	1 st BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)				
		c) 80-mm thick	Per Sft	3,360.00	197.40	663,264
10	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)	Cft	1,387.96	60.20	83,552
		Parking Shed				
11	N.S	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	3,360.00	2,270.00	7,627,200
		Total Rs.				12,137,962
		Cost Of 1 Unit;				12,137,962
		Cost Of 2 Units;				24,275,924

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PARKING SHED (SIZE 105' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	5	13.00	13.00	4.00	3,380.00	Cft
					Total	3,380.00	Cft
					Total	3.38	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	105.00	32.00		3,360.00	Sft
	Columns	5	13.00	13.00		845.00	Sft
					Total	4,205.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	5	13.00	13.00	0.25	211.25	Cft
					Total	211.25	Cft
					Total	2.11	%Cft

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PARKING SHED (SIZE 105' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	Columns footing	5	12.00	12.00	1.50	1,080.00	Cft
	Columns	5	3.00	1.50	6.75	151.88	Cft
	Plinth beam	1	105.00	0.75	1.50	118.13	Cft
						Total	1,350.00
							Cft
	Steel Work.						
5	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)					1,350.00	Cft
	Columns @ 12 lbs / Cft		12.00		=	16,200	lbs/cft
				Total	=	16,200	lbs/cft
				Total	=	7,350	Kg.
				Add 5% Wastage.	=	368	Kg.
				Total	=	7,718	Kg
						Total	77.18
							%kg
	Sand Filling						
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	105.00	32.00	1.00	3,360.00	Cft
						Total	3,360.00
							Cft
						Total	33.60
							%Cft

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SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 105' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
7	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	105.00	32.00	0.33	1,108.80	Cft
						Total	11.09 %Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	105.00	32.00	0.33	1,108.80	Cft
						Total	11.09 %Cft
9	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)						
	Shed	1	105.00	32.00		3,360	Sft

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PARKING SHED (SIZE 105' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Parking Shed						
10	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	1	105.00	32.00		3,360	Sft

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 105' x 32')

ELECTRICAL WORKS

Sr. No.	2nd Bi-Annual-2022 (July to Dec) Jhang	Description	Unit.	Quantity	Rate (Rs.)
		Scheduled Items (A)			
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	560.00	101.60
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	20.00	27.85
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaidd PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.036)	Rft.	560.00	44.05
4	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	2.00	296.00
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	2.00	96.95
		Sub Total (A)			
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220240V 50Wwith all accessories complete in all respects	Each	9.00	10,900.00
		Sub Total (B)			
		Sub Total (A+B)			
		Cost Of 1 Unit;			
		Cost Of 2 Units;			

\$
Amount (Rs.)
56,896
557
24,668
592
194
82,907
98,100
98,100
181,007
181,007
362,014
98

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	2.03	11,658.25	23,666
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	2,427.00	9.90	24,027
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	1.27	29,723.50	37,749
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(2) Type C (nominal mix 1: 2: 4)	P.Cft	806.63	473.85	382,219
		99				

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	46.11	31,946.30	1,473,044
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	19.20	2,982.00	57,254
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	6.34	16,138.95	102,321
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	6.34	21,253.90	134,750

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)				
		c) 80-mm thick	Per Sft	1,920.00	197.40	379,008
10	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)	Cft	830.19	60.20	49,975
		Parking Shed				
11	N.S	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	1,920.00	2,270.00	4,358,400
		Total Rs.				7,022,414

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

PARKING SHED (SIZE 60' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	3	13.00	13.00	4.00	2,028.00	Cft
					Total	2,028.00	Cft
					Total	2.03	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	60.00	32.00		1,920.00	Sft
	Columns	3	13.00	13.00		507.00	Sft
					Total	2,427.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	3	13.00	13.00	0.25	126.75	Cft
					Total	126.75	Cft
					Total	1.27	%Cft

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 60' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	Columns footing	3	12.00	12.00	1.50	648.00	Cft
	Columns	3	3.00	1.50	6.75	91.13	Cft
	Plinth beam	1	60.00	0.75	1.50	67.50	Cft
					Total	806.63	Cft
	Steel Work.						
5	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)					806.63	Cft
	Columns @ 12 lbs / Cft		12.00		=	9,680	lbs/cft
				Total	=	9,680	lbs/cft
				Total	=	4,392	Kg.
				Add 5% Wastage.	=	220	Kg.
				Total	=	4,611	Kg
					Total	46.11	%kg
	Sand Filling						
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	60.00	32.00	1.00	1,920.00	Cft
					Total	1,920.00	Cft
					Total	19.20	%Cft

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 60' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
7	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	60.00	32.00	0.33	633.60	Cft
					Total	6.34	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	60.00	32.00	0.33	633.60	Cft
					Total	6.34	%Cft
9	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)						
	Shed	1	60.00	32.00		1,920	Sft
	Parking Shed						

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

PARKING SHED (SIZE 60' x 32')

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
10	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	1	60.00	32.00		1,920	Sft

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

PARKING SHED (SIZE 60' x 32')

ELECTRICAL WORKS

Sr. No.	2nd Bi-Annual-2022 (July to Dec) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		<u>Scheduled Items (A)</u>				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	360.00	101.60	36,576
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	20.00	27.85	557
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	360.00	44.05	15,858
4	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	2.00	296.00	592
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	2.00	96.95	194
		Sub Total (A)				53,777
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220,240V 50W with all accessories complete in all respects	Each	4.00	10,900	43,600
		Sub Total (B)				43,600
		Sub Total (A+B)				97,377

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 108' x 16')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Schedule Item				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	1.18	11,658.25	13,757
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	2,022.00	9.90	20,018
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.74	29,723.50	21,995
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(2) Type B (nominal mix 1: 2: 4)	P.Cft	432.38	473.85	204,881

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 108' x 16')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	24.72	31,946.30	789,713
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	17.28	2,982.00	51,529
		Sub Base Course				
7	18/3/a/ (ii) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	5.70	16,138.95	91,992
		Water Bound Macadam				
8	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	5.70	21,253.90	121,147

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

PARKING SHED (SIZE 108' x 16')

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
9	10/41	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)				
		c) 80-mm thick	Per Sft	1,728.00	197.40	341,107
10	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)	Cft	450.62	60.20	27,126
		Parking Shed				
11	N.S	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	Sft	1,728.00	2,270.00	3,922,560
		Total Amonut Rs.				5,605,825
		Cost Of 1 Unit;				5,605,825
		Cost Of 2 Units;				11,211,650

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

SHED 108' x 16'

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Columns	6	7.00	7.00	4.00	1,176.00	Cft
					Total	1,176.00	Cft
					Total	1.18	%Cft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Floor	1	108.00	16.00		1,728.00	Sft
	Columns	6	7.00	7.00		294.00	Sft
					Total	2,022.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Columns	6	7.00	7.00	0.25	73.50	Cft
					Total	73.50	Cft
					Total	0.74	%Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

SHED 108' x 16'

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	Columns footing	6	6.50	6.50	1.00	253.50	Cft
	Columns	6	1.50	1.50	7.25	97.88	Cft
	Plinth Beam	1	108.00	0.75	1.00	81.00	Cft
					Total	432.38	Cft
	Steel Work.						
5	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)					432.38	Cft
	Columns @ 12 lbs / Cft		12.00		=	5,189	lbs/cft
				Total	=	5,189	lbs/cft
				Total	=	2,354	Kg.
				Add 5% Wastage.	=	118	Kg.
				Total	=	2,472	Kg
					Total	24.72	%kg
	Sand Filling						
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	108.00	16.00	1.00	1,728.00	Cft
					Total	1,728.00	Cft
					Total	17.28	%Cft

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

SHED 108' x 16'

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sub Base Course						
7	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	108.00	16.00	0.33	570.24	Cft
					Total	5.70	%Cft
	Water Bound Macadam						
8	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
	Shed	1	108.00	16.00	0.33	570.24	Cft
					Total	5.70	%Cft
9	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)						
	Shed	1	108.00	16.00		1,728	Sft

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 SUPERVISION IN 16 CITIES OF PUNJAB**

SHED 108' x 16'

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Parking Shed						
10	Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.	1	108.00	16.00		1,728	Sft

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 108' x 16')

ELECTRICAL WORKS

Sr. No.	2nd Bi-Annual-2022 (July to Dec) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		Scheduled Items (A)				
1	C-24/3-iii	Supply and erection of PVC pipe for wiring recessed in walls, including bends, inspection joints, boxes, pull boxes, hook, cutting and repair surface etc. completed with all specified. (25 mm i/d)	Rft.	510.00	101.60	51,816
2	C-24/10a.i	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (3.029)	Rft.	20.00	27.85	557
3	C-24/10a.iii	Supply and erection of single core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.029)	Rft.	510.00	44.05	22,466
4	C-24/14-i	Supply and erection of M.S. sheet box of 16 SWG, 10 cm (4") deep, with 4.75 mm thick (3/16") bakelite sheet top, for recessed wiring, including making holes for regulators, switches, plugs, etc. (4"x4")	Each	2.00	296.00	592
5	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	2.00	96.95	194
		Sub Total (A)				75,624
6	N.S	Supply, installation and commissioning FLOOD LIGHT BVP151 LED50NW 220,240V 50W with all accessories complete in all respects	Each	4.00	10,900	43,600
		Sub Total (B)				43,600
		Sub Total (A+B)				119,224
		Cost Of 1 Unit;				119,224
		Cost Of 2 Units;				238,449

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DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.94	11,658.25	10,959
		Sand Filling				
2	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	1.26	2,982.00	3,757
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	1.25	38,723.50	48,404
		(i) Ratio 1: 4: 8	100 Cft	3.21	29,723.50	95,412
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:-				
		Cement, sand mortar:- Ratio 1:4	100 Cft	8.02	29,928.60	240,027
		Concrete Work				
5	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(2) Type C (nominal mix 1: 2: 4)	P.Cft	541.04	473.85	256,370

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DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	P.Cft	281.70	583.25	164,302
		Steel Work.				
6	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	24.68	31,946.30	788,502
		Plaster				
7	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:-				
		b) ½" (13 mm) thick	100 Sft	2.83	3,639.10	10,299
		Mosaic flooring				
8	10/22/a	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-				
		(a) using grey cement	100 Sft	1.05	21,681.35	22,765

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DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Mosaic dado or skirting				
9	10/37	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing:				
		(a) using grey cement:				
		ii) ½"(13 mm) thick	100 Sft	2.83	23,268.60	65,850
		M.S Grating				
10	18/23	Providing and fixing M.S Grating comprising of Angle Iron frame size 1.50" x 1.50" x 3/16" and 1/2" square bars duly welded @ 4" c/c, including painting charges etc complete in all respect.	Sft	60.00	1,722.20	103,332
11	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)	Cft	1,138.22	60.20	68,518
		Total Amount Rs.				1,878,498

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WASHING PIT

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Washing Pit	1	37.50	10.17	2.00	762.75	Cft
	Drain	1	60.00	2.00	1.50	180.00	Cft
						Total	0.94 %Cft
2	Supplying and filling sand under floor; or plugging in wells.	1	37.50	10.17	0.33	125.85	Cft
						Total	1.26 %Cft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	For Plinth	1	100.00	5.00	0.25	125.00	Cft
						Total	1.25 %Cft
	(i) Ratio 1: 4: 8						
	Washing Pit	1	37.50	10.17	0.33	125.85	Cft
	For Plinth	1	100.00	5.00	0.33	165.00	Cft
	Drain	1	60.00	2.00	0.25	30.00	Cft
						Total	3.21 %Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:4						
	Washing Pit						
	Step - 1	1	13.00	1.875	0.50	12.19	Cft
	Step - 2	1	13.00	1.500	0.50	9.75	Cft
	Step - 3	1	13.00	1.125	5.50	80.44	Cft
	Side walls	2	20.00	3.500	3.50	490.00	Cft
		2	15.00	3.500	2.00	210.00	Cft
						Total	802.38 Cft
						Total	8.02 %Cft

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WASHING PIT

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
5	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	(2) Type C (nominal mix 1: 2: 4)						
	Washing Pit RCC Slab	1	36.00	9.50	1.50	513.00	Cft
	Drain	1	60.00	1.42	0.33	28.04	Cft
					Total	541.04	Cft
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	(3) Type C (nominal mix 1: 2: 4)						
	Washing Pit on Walls	2	36.00	3.50	1.00	252.00	Cft
	Drain	2	60.00	0.33	0.75	29.70	Cft
					Total	281.70	Cft
	Steel Work.						
6	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)				Total	823	Cft
	Total Concrete 3kg/cft		3			2,468	Kg
					Total	24.68	%Kg

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WASHING PIT

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Plaster						
7	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick						
	Wall	1	15.00		5.50	82.50	Sft
	Side Wall	2	20.00		3.50	140.00	Sft
		2	15.00		2.00	60.00	Sft
					Total	282.50	Sft
					Total	2.83	%Sft
	Mosaic flooring						
8	1½"(40 mm) thick mosaic flooring, consisting of ½ "(13 mm) mosaic topping of one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over 1"(25 mm) thick floor of 1:2:4 cement concrete, including rubbing and polishing complete with finishing :-						
	(a) using grey cement	1	35.00	3.00		105.00	Sft
					Total	1.05	%Sft
	Mosaic dado or skirting						
9	Mosaic dado or skirting with one part of cement and marble powder in the ratio of 3:1 and two parts of marble chips, laid over ½"(13 mm) thick cement plaster 1:3, including rubbing and polishing, complete with finishing:						
		1	15.00		5.50	82.50	Sft
		2	20.00		3.50	140.00	Sft
		2	15.00		2.00	60.00	Sft
					Total	282.50	Sft
					Total	2.83	%Sft

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		BOUNDARY WALL				
		Excavation				
1	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	11.30	11,658.25	131,738
		Anti-Termite				
2	26/43	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.	Sft	12,118.00	9.90	119,968
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	18.63	2,982.00	55,555
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	86.71	29,928.60	2,595,109
		Horizontal D.P.C				
5	6/36	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-				
		(a) with one coat bitumen and one coat polythene sheet 500gauge				
		i) 1½" thick (40 mm)	100 Sft	8.76	9,240.05	80,943
		Vertical D.P.C				
6	6/37	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-				

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EXTERNAL WORK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:				
		ii) Ratio 1:3 ¾ " thick (20 mm)	100 Sft	14.42	6,900.05	99,499
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	53.20	32,331.00	1,720,009
		Concrete Work				
8	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	P.Cft	50.63	473.85	23,989
		Above foundation				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	112.00	556.50	62,328
		Steel Work.				
9	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	9.30	31,946.30	297,101

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Cement Plaster				
10	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	67.31	4,650.85	313,049
		Pointing				
11	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:- a) ratio 1:2	100 Sft	67.31	3,776.40	254,189
12	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	67.31	822.00	55,329
		Distempering				
13	11/23	Distempering:- iii) three coats	100 Sft	60.06	1,446.35	86,868
		Main Gate				
14	25/30	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre.	Sft	112.00	1,998.95	223,882
		Painting new surface:-				
15	13/5/d	d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:- i) priming coat. ii) each subsequent coat of paint.	100 Sft 100 Sft	3.12 3.12	927.05 572.30	2,892 1,786
16	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)	Cft	1,908.68	60.20	114,897
		Total Rs. "A"				6,239,131

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EXTERNAL WORK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
		Borrow Earth				
17	3/5/i + 3/17	Earthwork in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 90% to 95% maximum modified dry density as determined according to AASHTO T-180 method-D including Transportation of earth.	1000Cft	165.50	17,627.60	2,917,368
		Sub Base Course				
18	18/3/a/ (ii) + 1/1	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	81.06	16,138.95	1,308,223

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EXTERNAL WORK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Water Bound Macadam				
19	18/4/a + 1/1	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)	100Cft	81.06	21,253.90	1,722,841
		Tuff Paver				
20	10/41	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)				
		c) 80-mm thick	Per Sft	24,565.00	197.6	4,854,044
		Kerb Stone				
21	6/52	Providing and fixing precast Edge Kerb Stone (4"to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect.				
		b) With Painting				
		(i) 14" high	Rft	600.00	535.05	321,030
22	3/32	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).	100Sft	111.00	1,848.00	205,128
		Total Rs. "B"				11,328,634
		Total Rs. "A+B"				17,567,764

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	BOUNDARY WALL						
	Excavation						
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	ii) in ordinary soil.						
	Boundary wall	1	858	3.00	3.00	7,722.00	Cft
	Boundary wall Columns	92	3.50	3.50	3.00	3,381.00	Cft
	Columns	2	5.00	5.00	4.00	200.00	Cft
					Total	11,303.00	Cft
					Total	11.30	%oCft
	Anti-Termite						
2	Spraying termite proofing by using liquid FMC/Biflex/Terminex Exin/Ms Hextar or equivalent @ specified suspension concentrate (SC), Mixing Ability-HEXTAR with Ratio (1:250) = 540 Sft or equivalent approved liquid applying with shower and certificate will be provided by the contractor for 10-years complete in all respect as approved by the Engineer Incharge.						
	Boundary wall	1	858.00	9.00		7,722.00	Sft
	Boundary wall Columns	92	3.50	9.50		3,059.00	Sft
		92	3.50	3.50		1,127.00	Sft
	Columns	2	20.00	4.00		160.00	Sft
		2	5.00	5.00		50.00	Sft
					Total	12,118.00	Sft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Boundary wall	1	858.00	3.00	0.50	1,287.00	Cft
	Boundary wall Columns	92	3.50	3.50	0.50	563.50	Cft
	Columns	2	5.00	5.00	0.25	12.50	Cft
					Total	1,863.00	Cft
					Total	18.63	%Cft

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						
	Boundary wall						
	Step - 1	1	858.00	2.625	0.50	1,126.13	Cft
	Step - 2	1	858.00	2.250	0.50	965.25	Cft
	Step - 3	1	858.00	1.875	0.50	804.38	Cft
	Step - 4	1	858.00	1.500	0.50	643.50	Cft
	Step - 5	1	858.00	1.125	0.50	482.63	Cft
	Step - 6	1	858.00	0.750	4.50	2,895.75	Cft
	Boundary wall Columns						
	Step - 1	92	3.00	3.00	0.50	414.00	Cft
	Step - 2	92	2.63	2.63	0.50	316.97	Cft
	Step - 3	92	2.25	2.25	0.50	232.88	Cft
	Step - 4	92	1.88	1.88	0.50	161.72	Cft
	Step - 5	92	1.50	1.50	0.50	103.50	Cft
	Step - 6	92	1.13	1.13	4.50	523.97	Cft
					Total	8,670.66	Cft
					Total	86.71	%Cft
	Horizontal D.P.C						
5	Providing and laying damp proof course of cement concrete 1 : 2 : 4 (using cement, sand and shingle), including bitumen coating :-						
	(a) with one coat bitumen and one coat polythene sheet 500gauge						
	i) 1½" thick (40 mm)						
	Boundary wall	1	858.00	0.75		643.50	Sft
	Boundary wall Columns	184	1.13	1.13		232.88	Sft
					Total	876.38	Sft
					Total	8.76	%Sft
	Vertical D.P.C						
6	Providing and laying vertical damp proof course with cement sand plaster and bitumen coating:-						
	(a) with one coat of bitumen and one coat of polythene sheet 500 gauge:						
	ii) Ratio 1:3 ¾ " thick (20 mm)						
	Boundary wall	1	858.00		1.50	1,287.00	Sft
	Boundary wall Columns	92	1.13		1.50	155.25	Sft
					Total	1,442.25	Sft
					Total	14.42	%Sft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Boundary wall	1	858.00	0.75	7.00	4,504.50	Cft
	Boundary wall Columns	92	1.13	1.13	7.00	815.06	Cft
					Total	5,319.56	Cft
					Total	53.20	%Cft
	Concrete Work						
8	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	Gate Columns	2	4.50	4.50	1.25	50.63	Cft
					Total	50.63	Cft
	Above foundation						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Gate Columns	2	2.00	2.00	14.00	112.00	Cft
					Total	112.00	Cft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Steel Work.						
9	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)					162.63	Cft
	Columns @ 12 lbs / Cft		12.00		=	1,951.50	lbs/cft
				Total	=	1,951.50	lbs/cft
				Total	=	885.44	Kg.
			Add 5% Wastage.		=	44.27	Kg.
				Total	=	930	Kg
						Total	9.30 %kg
	Cement Plaster						
10	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Boundary wall	1	858.00		7.00	6,006.00	Sft
	Boundary wall Columns	92	1.13		7.00	724.50	Sft
					Total	6,730.50	Sft
						Total	67.31 %Sft
	Pointing						
11	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2						
	Outer Walls	1	858.00		7.00	6,006.00	Sft
	Boundary wall Columns	92	1.13		7.00	724.50	Sft
					Total	6,730.50	Sft
						Total	67.31 %Sft
12	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
						Total	67.31 %Sft
	Distempering						
13	Distempering:- iii) three coats						
	Boundary wall	1	858.00		7.00	6,006.00	Sft
					Total	6,006.00	Sft
						Total	60.06 %Sft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Main Gate						
14	Making and fixing steel grated doors, complete with locking arrangement, angle iron frame 2"x2"x3/8" (50x50x10 mm) and 3/4" (20 mm) square bars 4" (100 mm) centre to centre.	1	16.00		7.00	112.00	Sft
	Painting new surface:-						
15	d) Preparing surface and painting guard bars, gates of iron bars, gratings, railing (including standards, braces, etc.) and in similar open work:-						
	i) priming coat.					3.12	%Sft
	ii) each subsequent coat of paint.					3.12	%Sft
	Tuff Paver						
	Borrow Earth						
16	Earthwork in ordinary soil for embankment including ploughing and mixing with blade grade or disc harrow or other suitable equipment and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- 90% to 95% maximum modified dry density as determined according to AASHTO T-180 method-D including Transportation of earth.		Area				
	Total Area	1	55,165	1.00	3.00	165,495	Cft
					Total	165,495	Cft
					Total	165.50	%oCft
	Sub Base Course						
17	Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)						
		1	24,565	1.00	0.33	8,106.45	Cft
					Total	81.06	%Cft
	130						

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Water Bound Macadam						
18	Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)						
		1	24,565	1.00	0.33	8,106.45	Cft
					Total	81.06	%Cft
	Tuff Paver						
19	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope. complete in all respect. (50% Grey / 50% Coloured)						
	c) 80-mm thick	1	24,565	1.00		24,565	Sft
20	Providing and fixing precast Edge Kerb Stone (4" to 6" thick), of 3500 PSI Compressive Strength, embeded in PCC 1:2:4 over lean concrete 1:4:8 etc complete in all respect.						
	b) With Painting						
	(i) 14" high	1	600			600	Rft
21	Turfing slopes of banks or lawns with grass sods including ploughing, laying, setting and watering (Turf got from within a distance of 5 miles (8 Km.) and maintenance for 15 days).						
		1	11,100	1.00		11,100	Sft
					Total	111.00	%Sft

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DETAILED COST ESTIMATE

EJECTOR PUMP

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Ejector Pump				
1	23/45/ii	P/F Ejector Pump of specified Suction and Delivery heads, coupled with Single Phase Seimen Electric Motor of required rating for water supply i/c the cost of connection charges, necessary wire, PVC pipes etc complete in all respect as approved and directed by the Engineer Incharge.				
		ii) G-IV (2-1/2"x2") with 2.5 HP Electric Motor, 38-Mtr Suction and 38 M delivery head	Each	1.00	19,360.20	19,360
		Boring				
2	23/1	Boring for tubewell in all types of soil except shingle and rock, from ground level to 100 ft. (30 m) depth, including sinking and withdrawing of casing pipe, complete:-				
		c) 5" (125 mm) i/d	Rft	100.00	646.70	64,670
3	23/2	Boring for tubewell in all types of soil except shingle, gravel & rock, from a depth of 100.1 ft. to 200 ft. (30 to 60 m) below ground level, including sinking and withdrawing of casing pipe, complete:-				
		a) 5" (125 mm) i/d	Rft	100.00	1,083.25	108,325
4	23/16	Providing and installing P.V.C. blind pipe, B.S.S. Class `B', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete.				
		b) 4" i/d (100 mm)	Rft	50.00	451.30	22,565
5	23/17	Providing and installing P.V.C. blind pipe, B.S.S. Class `D', in tubewell bore hole, including sockets and solvents and jointing with strainer, etc. complete.				
		b) 1½" i/d (40 mm)	Rft	200.00	152.95	30,590
		c) 2" i/d (50 mm)	Rft	70.00	221.20	15,484
6	23/11	Providing and installing, P.V.C. strainer B.S.S. Class 'B', in tubewell bore hole, including sockets and solvents, etc. complete:-				
		a) 3" i/d (75 mm)	Rft	30.00	187.95	5,639

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DETAILED COST ESTIMATE

EJECTOR PUMP

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
7	23/14	Providing and installing P.V.C. Bail/End plug, in tubewell bore hole:-				
		a) B.S.S. Class `B'				
		i) 3" i/d (75 mm)	Rft	1.00	92.45	92
		Total Amount Rs.				266,725

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/44	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.	1000Cft	1.75	8,321.30	14,562
		HDPE Pipe				
2	23-43	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/Popular/ IIL or equivalent including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects				
		c) PN-10 (SDR-17)				
		3) 40 mm	Rft	50.00	53.10	2,655
		4) 50 mm	Rft	200.00	78.65	15,730
		Valve				
3	23/46	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.				
		v) 1-1/2" dia	Each	2.00	2,289.60	4,579
		vi) 2" dia	Each	1.00	2,709.60	2,710
		Under Ground Water Tank				
		Excavation				
4	3/21/a/ii	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	0.89	11,658.25	10,376

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
5	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(i) Ratio 1: 4: 8	100 Cft	0.42	29,723.50	12,484
		Concrete Work				
6	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		In Foundation				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	P.Cft	85.28	473.85	40,408
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	278.09	583.25	162,197
		Steel Work.				
7	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	10.90	31,946.30	348,248

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		RCC Manhole Cover				
8	21/16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Each	1.00	16,069.65	16,070
		Angle Iron Step				
9	21/13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	6.00	9,324.00	55,944
10	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 165 Km)	Cft	359.57	60.20	21,645
		Pump				
11	N.S	Providing, installing, Fixing and commisioning of reciprocating pump with a capacity of 30 USGPM against a total head of 90 ft Cast Iron, Cylinder & Piston Rod in S.S., Crank Shaft in super finish S.G. Iron, Gland Nut in Brass and abrasion proof silently working Valves fitted on easily Feat accessible S.S., ABS or Cast Iron Valve Plate with Brass Seats, All Gaskets are in Rubber and Rocker Rail in Galvanized Mild Steel with Insulation Bushes complete system installed upto satisfaction of engineer in charge, complete in all respects	Each	1.00	20,000	20,000
		Total Rs				727,608

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Excavation						
1	Excavation of trenches in all kinds of soil, except cutting rock, for watersupply pipelines upto 5 ft. (1.5 m) depth from ground level, including trimming, dressing sides, leveling the beds of trenches to correct grade and cutting pits for joints, etc. complete in all respects.						
	Water supply Pipe	1	250.00	2.00	3.50	1,750.00	Cft
						Total	1.75 %oCft
	HDPE Pipe						
2	Providing, laying, cutting, jointing, testing and disinfecting High Density Polyethylene Pipe (HDPE-100) working presure pipe, Beta/ Dadex/Popular/ IIL or equivalent including the cost of specials, in trenches, as approved & directed by the engineer incharge, complete in all respects						
	c) PN-10 (SDR-17)						
	3) 40 mm	1	50.00			50.00	Rft
	4) 50 mm	1	200.00			200.00	Rft
	Valve						
3	Providing and fixing CP heavy duty brass Ball valve with CP handle of specified dia meter made of Faisal/ Sonex/ Master best quality or equivalent complete in all respect as approved and directed by the Engineer Incharge.						
	v) 1-1/2" dia	2				2.00	Nos.
	vi) 2" dia	1				1.00	Nos.
	Under Ground Water Tank						
	Excavation						
4	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)						
	a) By Manual						
	ii) in ordinary soil.	1	12.33	10.33	7.00	890.95	Cft
						Total	0.89 %oCft
	Plain Cement Concrete						
5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8	1	12.33	10.33	0.33	42.00	Cft
						Total	0.42 %oCft

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EXTERNAL WATER SUPPLY

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Concrete Work						
6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	In Foundation						
	(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-						
	(3) Type C (nominal mix 1: 2: 4)	1	12.33	10.33	0.67	85.28	Cft
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Walls	1	38.66	0.67	8.00	207.24	Cft
	Top Slab	1	11.33	9.33	0.67	70.85	Cft
					Total	278.09	Cft

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DETAILED COST ESTIMATE

EXTERNAL WTER SUPPLY

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Steel Work.						
7	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60) (3 kg/cft)				Total	1,090.10	Kg
	RCC Manhole Cover						
8	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	1				1.00	Nos
	Angle Iron Step						
9	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	6				6.00	Nos.

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DETAILED COST ESTIMATE

EXTERNAL SEWERAGE SYSTEM

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	3.94	12,836.55	50,544
		Sand Filling				
2	21/24	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.	100Cft	11.25	3,906.00	43,943
		uPVC Pipe				
3	19/48	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.				
		a) Type (SDR 34/SN-8)				
		i) 6" dia 150mm	Rft	400.00	1,144.35	457,740
		ii) 8" dia 200 mm	Rft	50.00	1,723.60	86,180
4	N.S Rate Analysis	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	8.00	18,800.57	150,405
		Total Rs				788,811

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DETAILED COST ESTIMATE

EXTERNAL SEWERAGE SYSTEM

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Excavation						
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
	uPVC pipe	1	450.00	2.50	3.50	3,937.50	Cft
					Total	3.94	%oCft
	Sand Filling						
2	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.						
		1	450.00	2.50	1.00	1,125.00	Cft
					Total	11.25	%Cft
	uPVC Pipe						
3	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.						
	a) Type (SDR 34/SN-8)						
	i) 6" dia 150mm	1	400.00			400.00	Rft
	ii) 8" dia 200 mm	1	50.00			50.00	Rft
4	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	8				8.00	Nos.

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	0.33	12,836.55	4,236
		Plain Cement Concrete				
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	0.08	38,723.50	3,098
		(i) Ratio 1: 4: 8	100 Cft	0.27	29,723.50	8,025
		Brick work				
3	7/7/i	Pacca brick work other than building upto 10ft. (3 m)				
		Ratio 1:3	100 Cft	2.28	33,467.90	76,307
		Concrete Work				
4	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	16.88	583.25	9,842

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DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Steel Work.				
5	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	0.42	31,946.30	13,477
		Cement Pointing				
6	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100Sft	2.64	3,776.40	9,970
		RCC Manhole Cover				
7	21/16	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Each	2.00	16,069.65	32,139
		Angle Iron Step				
8	21/13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	14.00	610.75	8,551
9	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 165 Km)	Cft	47.48	60.20	2,858
		Total Amount Rs.				168,503

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SEPTIC TANK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Excavation						
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
	Septic tank	1	8.50	5.50	7.00	327.25	Cft
					Total	327.25	Cft
					Total	0.33	%oCft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4	3	1.75	3.00	0.50	7.88	Cft
					Total	7.88	Cft
					Total	0.08	%Cft
	(i) Ratio 1: 4: 8						
	Septic tank	3	1.75	3.00	0.33	5.25	Cft
	Outer Wall	1	24.00	2.00	0.33	16.00	Cft
	Baffle wall	2	6.00	1.50	0.33	6.00	Cft
					Total	27.25	Cft
					Total	0.27	%Cft
	Brick work						
3	Pacca brick work other than building upto 10ft. (3 m)						
	Ratio 1:3						
	Outer wall	1	24.00	1.88	0.50	22.50	Cft
		1	24.00	1.50	0.50	18.00	Cft
		1	24.00	1.13	0.50	13.50	Cft
		1	24.00	0.75	8.00	144.00	Cft
	Baffle wall	2	3.00	1.13	0.50	3.38	Cft
		2	3.00	0.75	6.00	27.00	Cft
					Total	228.38	Cft
					Total	2.28	%Cft

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SEPTIC TANK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Concrete Work						
4	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)	1	7.50	4.50	0.50	16.88	Cft
	Steel Work.						
5	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60)		2.50 kg/cft			42.19	Kg
					Total	0.42	%Kg
	Cement Pointing						
6	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2	1	24.00		8.00	192.00	Sft
		4	3.00		6.00	72.00	Sft
					Total	264.00	Sft
					Total	2.64	%Sft
	RCC Manhole Cover						
7	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	2				2.00	Nos.

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SEPTIC TANK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Angle Iron Step						
8	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	14				14.00	Nos.

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DETAILED COST ESTIMATE
EXTERNAL DARINAGE SYSTEM

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	1.31	12,836.55	16,848
		Sand Filling				
2	21/24	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.	100Cft	3.75	3,906.00	14,648
		uPVC Pipe				
3	19/48	Providing, fixing, testing and commissioning of μ -PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.				
		a) Type (SDR 34/SN-8)				
		i) 6" dia 150mm	Rft	75.00	1,144.35	85,826
		ii) 8" dia 200 mm	Rft	75.00	1,723.60	129,270
4	Rate Analysis	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	Each	2.00	18,800.57	37,601
		Total Rs				284,193

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DETAILED COST ESTIMATE

EXTERNAL DRAINAGE SYSTEM

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Excavation						
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
	uPVC pipe	1	150.00	2.50	3.50	1,312.50	Cft
					Total	1.31	%oCft
	Sand Filling						
2	Providing and laying sand under and around the sewer pipe, including leveling, manual compaction, complete in all respect.						
		1	150.00	2.50	1.00	375.00	Cft
					Total	3.75	%Cft
	uPVC Pipe						
3	Providing, fixing, testing and commissioning of u-PVC (Unplasticized Polyvinyl Chloride) sewerage pipe make of Dadex /Popular/Beta or equivalent, plain /socket ended conforming to code EN-1401 of specified SDR (Standard Dimension Ratio) including the cost of specials and Solvents complete in all respect as approved and directed by the Engineer Incharge.						
	a) Type (SDR 34/SN-8)						
	i) 6" dia 150mm	1	75.00			75.00	Rft
	ii) 8" dia 200 mm	1	75.00			75.00	Rft
4	Providing and making Manhole 2'x2' internal size including 9" thick brick masonry (1:4), 1/2" th. Plastering (1:3) i/side, benching with PCC 1:2:4 4" th. with cement finish, including manhole cover, complete in all respects.	2				2.00	Nos.

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DETAILED COST ESTIMATE

SILT HOLDING TANK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		SILT HOLDING TANK				
		Excavation				
1	3/42	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth	1000Cft	0.32	12,836.55	4,108
		Plain Cement Concrete				
2	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	0.05	38,723.50	1,936
		(i) Ratio 1: 4: 8	100 Cft	0.13	29,723.50	3,864
		Concrete Work				
3	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-				
		Type C (nominal mix 1: 2: 4)	P.Cft	127.13	583.25	74,146
		Steel Work.				
4	6/12/c	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		Deformed bars (Grade-60)	100kg	3.81	31,946.30	121,835

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DETAILED COST ESTIMATE

SILT HOLDING TANK

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		C.I Cover				
5	19/40	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	Each	1.00	2,426.30	2,426
		Angle Iron Step				
6	21/13	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	Each	5.00	610.75	3,054
		C.I Vent Pipe				
7	23/21	Providing, laying, cutting, jointing, testing and disinfecting cast iron pipe line (BS-2035) in trenches, with flanged and flanged joints, complete in all respects:- a) 3" (75 mm) i/d	Rft	5.00	1,284.65	6,423
8	1/1	Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 170 Km)	Cft	124.19	60.20	7,476
		Total Rs				225,268

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DETAILED COST ESTIMATE

EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	SILT HOLDING TANK						
	Excavation						
1	Earth work excavation in open cutting for sewers and manholes as shown in drawing including shuttering of wooden vertical planks, struts and beams, dressing to correct section and dimension according to templates and levels and removing surface water in all types of soil except shingle, gravel and rock. i) 0 ft. to 7.0 ft. (0 to 2.10 m) depth						
		1	8.00	5.00	8.00	320.00	Cft
					Total	0.32	%oCft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4	1	6.00	3.00	0.25	4.50	Cft
					Total	0.05	%Cft
	(i) Ratio 1: 4: 8	1	8.00	5.00	0.33	13.20	Cft
					Total	0.13	%Cft
	Concrete Work						
3	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-						
	(a) (i) Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respects:-						
	Type C (nominal mix 1: 2: 4)						
	Walls	1	21.00	0.75	7.00	110.25	Cft
	Top Slab	1	7.50	4.50	0.50	16.88	Cft
					Total	127.13	Cft

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DETAILED COST ESTIMATE

EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
	Steel Work.						
4	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-						
	Deformed bars (Grade-60) (3 kg/cft)				Total	381.38	Kg
	C.I Cover						
5	Supply and fitting of cast iron manhole cover with frame, etc. complete. iii) 60 cm (24") dia	1				1.00	Nos
	Angle Iron Step						
6	Providing and fixing 1¼"x1¼"x3/16" (31x31x5 mm) angle iron step, in manhole chambers, including carriage and setting the same in work to correct lines and levels.	5				5.00	Nos.

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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind Bi-Annual-2023 (Jun to june) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		Scheduled Items (A)				
		Excavation				
1	3/21	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m)				
		a) By Manual				
		ii) in ordinary soil.	1000Cft	3.29	11,658.25	38,402
		RCC Foundation for Poles				
2	6/6	Providing and laying reinforced cement concrete (including prestressed concrete), using coarse sand and screened graded and washed aggregate, in required shape and design, including forms, moulds, shuttering, lifting, compacting, curing, rendering and finishing exposed surface, complete (but excluding the cost of steel reinforcement, its fabrication and placing in position, etc.):-				
		(a)(iii) Reinforced cement concrete in slab of rafts / strip foundation, base slab of column and retaining walls; etc and footing beams, other structural members other than those mentioned in 6(a) (i)&(ii) above not requiring form work (i.e. horizontal shuttering) complete in all respects:-				
		(3) Type C (nominal mix 1: 2: 4)	Cft	144.00	473.85	68,234
		Steel Work				
3	6/12/b	Fabrication of mild steel reinforcement for cement concrete, including cutting, bending, laying in position, making joints and fastenings, including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
		(b) Deformed bars (Grade-40)	100Kg	3.60	15,949.45	57,418
4	24/13b.iii	Supply and erection of 3 core PVC insulated copper conductor cables, in prelaid PVC pipe/M.S. conduit/G.I pipe/wooden strip batten/wooden casing an capping/G.I. wire/trenches (rate for cables only). (7.09)	Rft.	250.00	114.25	28,563

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EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind Bi-Annual-2023 (Jun to June) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
5	24/6i	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches:-				
		i) 50 mm i/d	Rft	800.00	177.75	142,200
6	24/12	Supply and erection of single core PVC insulated, PVC sheathed copper conductor, 660/1100 volts grade cable, in prelaid G.I. pipe/M.S. conduits/PVC pipe/G.I. wire/trenches, etc (rate for cable only):-				
		ii) 4 mm sq (7/0.036")	Rft	800.00	94.35	75,480
		iv) 16 mm sq (7/0.064")	Rft	100.00	208.35	20,835
7	24/13	Supply and erection of copper conductor cables for service connection, in prelaid pipe/G.I. wire / trenches, etc. (rate for cable only):-				
		a) PVC insulated, PVC sheathed twin core, 250/440 volts.				
		v) 7/1.12 mm (7/0.044")		800.00	173.45	138,760
		b) PVC insulated, PVC sheathed 3 core, 600/1000 volt cable:-				
		v) 7/1.12 mm (7/0.044")	Rft	400	267.15	106,860
		c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
		vi) 10 mm (7/0.052")	Rft	550.00	525.75	289,163
		vii) 16mm (7/0.064")	Rft	110.00	694.80	76,428
8	24/68	Supplying, installation testing and commissioning of Octagonal shape electric street light pole, made of hot dipped 4.5 mm thick (7 SWG) galvanized steel ,tapered from 225 mm at bottom to 100 mm at top,with 1500 mmx60 mm dia. arm for luminaire installation, duly G.I.welded with 470x470x20 mm base plate with the help of 4 no triangular stiffeners 100x350x20 mm of GI sheet,with built in junction box with shutter,i/c the cost of nuts & J-rag bolts, duly fixed in prelaid concrete foundation, foundation will be paid additionally as approved and directed by the Engineer Incharge.				
		a) Single Arm				
		(i) 10 mtr height	Each	5.00	116,326.10	581,631
		b) Double Arm				
		(i) 10 mtr height	Each	2.00	120,142.10	240,284

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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind Bi-Annual-2023 (Jun to June) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	24/69	Supplying, installation and commissioning of LED Cobra-head Luminaries of specified wattage and lumens conforming to IP 65, Philips/Osram/Thorn with corrosion resistant die casted aluminum housing, silicon gas kit, thermally hardened glass complete with LED drivers, surge protection i/c the cost of all accessories/components required for proper operation, fully flexible for future upgradation and easy replacements for maintenance purposes, bucket elevator charges as approved and directed by the Engineer Incharge.				
		c) 120 Lm/Watt				
		(vi) 120 Watt with 14400 Lumens	Each	9.00	56,198.60	505,787
10	24/77	Supply and erection of electric energy meter, including meter testing fee, etc.				
		b) three phase, 4 wires:				
		iii) 3x80 Amp, 400 volts	Each	1.00	15,987.30	15,987
11	24/86	Suppling, Installation and comissioning of MCB (Miniature Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY /SIEMEN GERMAN/TERASAKI JAPAN/ ABB SWITZERLAND in prelaid DBs and Panels i/c the cost of screwes,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
		a) Single Pole				
		(ii) 6-40 Amp (6 KA)				
		DB admin block and shed-2	Each	17.00	1,184.45	20,136
		DB stroe & shed ,3,4&5	Each	12.00	1,184.45	14,213
		DB GR,EXT,shed 01	Each	10.00	1,184.45	11,845
		b) Double Pole				
		(ii) 6-40 Amp (6 KA)				
		DB admin block and shed-2	Each	1.00	3,614.45	3,614
		DB stroe & shed ,3,4&5	Each	-	3,614.45	-
		DB GR,EXT,shed 01	Each	3.00	3,614.45	10,843
		MPB	Each	-	3,614.45	-
		c) Tripple Pole				
		All DBs				
		(ii) 6-40 Amp (10KA)				

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DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind Bi-Annual-2023 (Jun to june) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
		All DBs	Each	-	7,236.95	-
		(iii) 6-63 Amp (10 KA)				
		MPB & All DBs	Each	11.00	9,036.95	99,406
13	24/90	P/F wall mounted DB (Distribution Board) made with 16SWG Sheet (Recessded/Surface mounted Type), Powder coated Paint, i/c the cost of Lock, Indication lights,Thimble, Copper Comb, Wiring, Netural & Earth Bar, Door Earthing, Digital Voltmeter, Digital Ammeter,Volt Selector Switch,Ammeter selector switch,Current Transformers and Controles Complete in all respect as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		(a) 6" deep				
		(i) 20~60A				
		DB admin block and shed-2	Cft	1.50	19,686.70	29,530
		DB stroe & shed ,3,4&5	Cft	1.50	19,686.70	29,530
		DB GR,EXT,shed 01	Cft	1.50	19,686.70	29,530
		MPB	Cft	2.50	19,686.70	49,217
15	24/105/iii	Supply, insatllation, commissioning and testing of oil cooled type, Step down Power Transformer of specified rating,11/0.415 kV, i/c the cost of lifting hooks, thermometers, LT & HT bushing 5-steps, tap changer, imported double float buchholz relay, 2 earthing terminals, roller wheels, connecting terminals for cables M.S box on transformer in order to cover complete L.T side, all necessary materials required for connections on H.T & L.T side, rated voltage 11000/415/240 V impedance 6.25% or as specified by WAPDA/IEC system earth: Delta / Star, neutral solidly earthed, i/c Wapda testing charges,complete in all respects made of PEL, Siemens, as approved and directed by the Engineer Incharge				
		(iii) 25 KVA	Each	1.00	581,485.15	581,485

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

EXTERNAL ELECTRICAL WORKS

Sr. No.	Ind Bi-Annual-2023 (Jun to june) Jhang	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
16	24/70	Earthing of iron clad/aluminum switches, etc. with G.I. wire No. 8 SWG in G.I. pipe 15 mm (½") dia, recessed or on surface of wall and floor, complete with 1.5 metre long G.I. pipe, 50 mm (2") dia with reducing socket 4 to 5 metre below ground level, and 2 metre away from building plinth.	Job	3.00	10,199.15	30,597
17	24/72	Bonding to earth with wire on surface, including cost of wire, clamps, thimbles, etc.				
		a) G.I. wire:				
		i) 8 SWG	Per Rft.	100.00	25.20	2,520
Sub Total Scheduled Items: (A)						3,298,499
19	N.S.	Supply, installation, testing, and commissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.				
		i) Direct of Line (DOL) Starter for 3HP Motor	Set	1.00	45,110	45,110
		ii) Direct of Line (DOL) Starter for 5HP Motor	Set	1.00	57,060	57,060
Total Cost (Part B)					Rs.	102,170
Grand Total (Part A + Part B)					Rs.	3,400,669

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

DETAILED COST ESTIMATE

ENVIRONMENTAL HEALTH & SAFETY COST

Sr No	Description	Unit	Quantity	Unit Rate (Rs.)	Amount Rs.
	Labor Safety				
1	Face Masks (3 PLY)	Nos	10.00	700.00	7,000
2	Safety Gum Shoes	Nos	15.00	1,350.00	20,250
3	Hand Gloves	Nos	15.00	245.00	3,675
4	First Aid Box (Including essential Medicine)	Nos	1.00	5,000.00	5,000
5	Safety Hard Helmets MSA	Nos	15.00	2,000.00	30,000
6	Safety Goggles	Nos	15.00	550.00	8,250
7	Reflective Safety Vests	Nos	15.00	550.00	8,250
				Sub Total	82,425
	Working Site Safety				
1	Reflective Safety Signs Boards	Nos	2.00	10,000.00	20,000
2	Reflective Safety Barricading Tape	Nos	2.00	1,500.00	3,000
3	Fire Extinguishers DCP	Nos	1.00	7,000.00	7,000
				Sub Total	30,000
	Total Amount (Rs)				112,425

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

Rate Analysis - 1

Carriage of 100 Cft. (2.83 cu.m) of all materials like stone aggregate, spawl, kankar lime (unslaked), surkhi, etc. or 150 Cft. (4.25 cu.m) of timber, by truck or by any other means owned by the contractor. (crushed stone aggregate and bajri used in concrete items) (Lead 105 Km)

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	1	305.40	305
		2nd KM	100 Cft	1	1	145.65	146
		3rd KM	100 Cft	1	1	114.10	114
		4th KM	100 Cft	1	1	81.20	81
		5th KM	100 Cft	1	1	75.85	76
		6th KM	100 Cft	1	1	74.60	75
		7th KM	100 Cft	1	1	69.60	70
		8th KM	100 Cft	1	1	68.85	69
		9th KM	100 Cft	1	1	64.75	65
		10th KM	100 Cft	1	1	60.75	61
		From 11 km to 200 km	100 Cft	95	1	52.20	4,959
		Total.					6,019.75
		Total Amount per 100 Cft					6,019.75
		Total Cost for Per Cft					60.20

#REF!

EARTH WORK LEAD CHART**Rate Analysis - 2**

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Lead	Unit.	Qty	Rate (Rs)	Amount (Rs)
1	3/5/i	Earthwork in ordinary soil for embankments lead upto 100 ft. (30 m), including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, complete in all respects:- i) 95% to 100% maximum modified AASHO dry density.	1	1000Cft	1	9,963.35	9,963.35
2	3/17a.b.c	Carriage upto ¼ mile (400 m). for every 330 ft. (100 m) additional lead or part thereof, beyond ¼ mile (400 m) upto one mile. (1.6 Km.) for every ¼ mile (400 m) additional lead or part thereof, beyond one mile (1.6 Km.) upto 5 mile (8 Km.) for every ½ mile (800 m) additional lead or part thereof, beyond 5 miles (8 Km).	1 12 8.5 0	1000 Cft 1000 Cft 1000 Cft 1000 Cft	1 1 1 1	4,472.30 36.85 323.50 305.45	4,472.30 442.20 2,749.75 -
		Total Amount I,000 (Rs.).					17,627.60
		Total Amount Per Cft					17.63

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

Rate Analysis - 3

Description							
Providing and laying sub-base course of stone product of approved quality and grade including, placing, mixing, spreading and compaction of sub base material to required depth, camber and grade to achieve 98% maximum dry density determined according to AASHTO T-180 method-D, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Pit run or bed run gravel from sargodha quarry to site, actual compacted depth shall be considered for payment)							
Crush Stone							
Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs)
1		Material					
	18-3 a(ii)	ii) Crushed stone aggregate.	100 Cft	1	1	8,915.25	8,915.25
2		Carriage					
	1/1	1st KM	100 Cft	1	1.2	305.40	366.48
		2nd KM	100 Cft	1	1.2	145.65	174.78
		3rd KM	100 Cft	1	1.2	114.10	136.92
		4th KM	100 Cft	1	1.2	81.20	97.44
		5th KM	100 Cft	1	1.2	75.85	91.02
		6th KM	100 Cft	1	1.2	74.60	89.52
		7th KM	100 Cft	1	1.2	69.60	83.52
		8th KM	100 Cft	1	1.2	68.85	82.62
		9th KM	100 Cft	1	1.2	64.75	77.70
		10th KM	100 Cft	1	1.2	60.75	72.90
			From 11 km to 200 km	100 Cft	95.00	1.2	52.20
		Total.					16,138.95
		Total Amount per 100 Cft					16,138.95
		Total Cost for Per Cft					161.39

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB

Rate Analysis - 4

Providing and laying base course of crushed stone (Water Bound Macadam) of approved quality and grade including, placing, mixing, spreading and compaction of base course material to required depth, camber and grade to achieve 100% maximum modified AASHTO dry density, including carriage of all material to site of work complete in all respect as per specifications and as directed by the engineer incharge. (Crushed stone aggregate from sargodha quarry to site, actual compacted depth shall be considered for payment)

Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/4(a)	Crushed stone	100 Cft		1	13,909.80	13,910
2	1/1	Carriage of 100 cft of all materials like stone aggregate spawl kanker lime surkhi etc or 150 cft of timber by truck or by any other means owned by the contractor.					
		1st KM	100 Cft	1	1.22	305.40	373
		2nd KM	100 Cft	1	1.22	145.65	178
		3rd KM	100 Cft	1	1.22	114.10	139
		4th KM	100 Cft	1	1.22	81.20	99
		5th KM	100 Cft	1	1.22	75.85	93
		6th KM	100 Cft	1	1.22	74.60	91
		7th KM	100 Cft	1	1.22	69.60	85
		8th KM	100 Cft	1	1.22	68.85	84
		9th KM	100 Cft	1	1.22	64.75	79
		10th KM	100 Cft	1	1.22	60.75	74
			From 11 km to 200 km	100 Cft	95.00	1.22	52.20
		Total.					21,253.90
		Total Amount per 100 Cft					21,253.90
		Total Cost for Per Cft					212.54

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

Rate Analysis - 5

Manhole Construction 2 x 2 Ft										Unit	Each
Sr. No.	Ind BI-Annual-2023 (Jan to June) Jhang	Description	No.	Length	Width	Height	Qty	Unit	Rate (Rs)	Amount (Rs)	
1	3-42-i	Excavation. (0 to 7 feet depth)	1	3.50	3.50	3.00	36.75	1000 Cft	12,836.55	471.74	
2	6-3-b	Cement concrete brick or stone ballast (1:4:8)	1	3.50	3.50	0.33	4.04	100 Cft	25,717.20	1,039.62	
3	6-5-f	Base slab	1	3.50	3.50	0.25	3.06	100 Cft	38,723.50	1,185.91	
4	6-6-(a)(i)	Top ring Beam Ratio 1:2:4	1	3.500	3.50	0.33	4.04	100 Cft	583.25	2,357.79	
5	6/12 (c)	Steel work		3.00 kg per cft			14.15	kg	31,946.30	4,520.00	
6	7-7-i	Brick Work Ratio 1:3 Step - 1	1	11.00	0.75	2.00	16.50	100 Cft	33,467.90	5,522.20	
7	11-8-c	3/4" thick Plaster Ratio 1:3 (External)	1	11.00		2.00	22.00	100 Sft	4,856.75	1,068.49	
8	11-18-a	Cement pointing struck joints, on walls (1:2) (Internal)	1	8.00		2.00	16.00	100 Sft	3,776.40	604.22	
9	13-9-i	Bitumen Coating on External Plaster	1	11.00		2.00	22.00	100 Sft	2,264.55	498.20	
10	19-40-ii	Supply and fitting of cast iron manhole cover ii) 45 cm (18") dia	1				1.00	Each	1,532.40	1,532.40	
Grand Total.									18,801		

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

RATE ANALYSIS

Description										
Providing, laying and fixing in position shed as per drawings, manufacturer's specifications and as directed by Engineer Incharge. This item includes Aluzinc corrugated sheet of 0.5 to 0.6 mm thick fixed with rivet and bolts over Purlins and truss frame of 50X50X4.75 mm with approved Colour/ paint supported with Steel Hexagonal / round shaped Columns size 200 to 300 mm diameter fitted with J-Type bolt having length 450 to 500 mm and not less than 38mm diameter. This item includes all kind of leads, lifts, fitting charges etc. complete in all respect excluding Cost of substructure i.e. foundation. Approval of manufacturer must be sought prior to placing order.										
								Unit.	Per Sft	
Sr. No.	Ref	Detail	Unit Rate (British System) per Sft							
			Qty	Rate Per Unit		Amount (Rs.)				
		Area 1 Sft								
		<u>Material</u>								
1	MR	Supply of PEB Shed	1	Sft	1,888.00	Sft		1,888		
							Total.	1,888		
		Contractor's Profit	20	%				378		
		Total						2,266		
		<u>ITEM RATES</u>								
		Composite rate Per Sft					Rs.	2,270		

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
RATE ANALYSIS

Rate Analysis for 3.50' x 7' = 24.50 Sft

Sr. No.	Ref Input Rate	Detail	Unit Rate (British System) per Sft			
			Qty.	Rate Per Unit (Rs.)	Amount (Rs.)	
A		Material				
	12.014	Formica sheet (8' x 4') (Rate - 1400 Per Sheet)				
		Size 3.50' x 7' = 24.50	24.50	Sft		
			24.50	Sft		
		Wastage 5%	5 %	1.23	Sft	
		Total	25.73	Sft	43.75	P. Sft
						1,125.47
						Total
						1,125.47
B		Fitting				
1	12.039	Glue (Bottle) Best Quality	0.50	Kg	200.00	Kg
						Total
						100.00
C		Labour				
	LB-029	Carpenters	0.10	Nos	1400.00	P. Day
	LB-024	Skilled Cooly	0.10	No	1400.00	P. Day
		Total				
						280.00
		Sundries	10 %			
		Total				28.00
						308.00
						Total (A+B+C)
						1,533.47
		Contractor's profit	20 %			
						306.69
		Total for 24.50 Sft.				
						1,840.16
		Rate Per Sft				
						75.11
		Item Rates				
		Composite Rate Per Sft			Rs.	75.11
		Composite Rate Per Sqm			Rs.	808.18

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
 SUPERVISION IN 16 CITIES OF PUNJAB**

RATE ANALYSIS

Description									
Supply, installation, testing, and commissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.									
								Unit.	Each
Sr. No.	Ref	Detail	Unit Rate (British System) per Each						
			Qty	Rate Per Unit	Amount (Rs.)				
		<u>Material</u>							
1	MR	i) Direct of Line (DOL) Starter for 5HP Motor	1.00	No.	44,600	No.			44,600
								Total.	44,600
2		Carriage & Installation Charges							2,945
								Total.	47,545
		Contractor's Profit on item No. (1&2)	20	%					9,509
		Total							57,054
		<u>ITEM RATES</u>							
		Composite rate Per Each						Rs.	57,060

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

RATE ANALYSIS

Description										
Supply, installation, testing, and comissioning of following equipment to be installed in already made DB Box for motor including cost of all necessary accessories i.e: contactors, relay, indication lights, with ON/OFF push button complete in all respects.										
								Unit.	Each	
Sr. No.	Ref	Detail	Unit Rate (British System) per Each							
			Qty	Rate Per Unit	Amount (Rs.)					
		<u>Material</u>								
1	MR	i) Direct of Line (DOL) Starter for 3HP Motor	1.00	No.	33,500	No.			33,500	
								Total.	33,500	
2		Carriage & Installation Charges							2,230	
								Total.	35,730	
		Contractor's Profit on item No. (1&2)	20	%					7,146	
		Total							45,106	
		<u>ITEM RATES</u>								
		Composite rate Per Each						Rs.	45,110	

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB

RATE ANALYSIS

Description

Supply, Installation, testing and commissioning of following Flood Light, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.

Unit. Each

Sr. No.	Ref	Detail	Unit Rate (British System) per Each						
			Qty	Rate Per Unit	Amount (Rs.)				
		<u>Material</u>							
1	MR	Flood Light	1.00	No.	5,525	No.		5,525	
							Total.	5,525	
2		Carriage & Installation Charges						276.25	
							Total.	5,801	
		Contractor's Profit on item No. (1&2)	20	%				1,160	
		Total						6,962	
		<u>ITEM RATES</u>							
		Composite rate Per Each					Rs.	6,961	
		Say					Rs.	7,000	

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB**

RATE ANALYSIS

Description										
Supply, Installation, testing and commissioning of following size 56" ceiling fan, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.										
								Unit.	Each	
Sr. No.	Ref	Detail	Unit Rate (British System) per Each							
			Qty	Rate Per Unit			Amount (Rs.)			
		<u>Material</u>								
1	MR	Ceiling Fan	1.00	No.	5,525	No.		5,525		
							Total.	5,525		
2		Carriage & Installation Charges							276.25	
							Total.	5,801		
		Contractor's Profit on item No. (1&2)	20	%					1,160	
		Total							6,962	
		<u>ITEM RATES</u>								
		Composite rate Per Each					Rs.	6,961		
		Say					Rs.	7,000		

ANNEXURE C
ECONOMIC BENEFITS

Economic Benefits

The construction of parking shed can be beneficial for the community in multiple ways. The Economic benefits of a parking shed are given below:

- A safe yard is provided for SWM vehicles in mechanized form.
- Parking shed helps to save a lot of energy. Car parking shade can be very beneficial to save a lot of energy by protecting it from the heat sun. The shades can allow maintaining a cooler environment for the vehicles and also reduces the amount of energy required to cool down from the heat of the sun.
- The parking shed helps in prevention of vehicles from rusting, sunlight, weather conditions, etc.
- In-house workshops are provided for the repairing and maintenance of vehicles.
- The parking shed provides safety to SWM vehicles.
- The parking shed helps in prevention from heating up of engines.

Annexure-D

Gant Chart

**TENTATIVE PROJECT IMPLEMENTATION SCHEDULE FOR CONSTRUCTION OF PARKING SHED FOR SWM MACHINERY
YEAR (2022-2023)**

Sr.No	Activity Name	APR-23				MAY-23				JUN -23				JUL-23				AUG-23				SEP-23			
1	Construction of Boundary Wall & Gate	■	■	■	■	■	■																		
2	Building & Allied Structures					■	■	■	■	■	■	■	■												
3	Parking Sheds									■	■	■	■	■	■	■	■	■							
4	Workshop & Washing area											■	■	■	■	■	■	■							
5	Walkways & Pathways															■	■	■	■	■	■	■	■	■	■

Annexure-E

E&S Checklist and SOPs

ENVIRONMENTAL AND SOCIAL SCREENING CHECKLIST

Instructions:

Environmental and Social Focal Persons (ESFPs) nominated by the MCs for PCP environmental and social management, will use this checklist in field to support the environmental and social screening and categorization of each and every sub-project proposed to be executed under the Program.

Deputy Program Officers-Environmental and Social Management deputed by PMDFC in regional offices will technically assist and support the ESFPs/MCs in filling in of this Checklist

It is to be attached with the main document of sub-projects at planning stage and will be duly signed by the relevant ESFP and endorsed by the respective DPO-ESM

This checklist focuses on environmental issues and social concerns. To ensure that social dimensions are adequately considered, Involuntary Resettlement Screening Checklist will also be used

(iii) Answer the questions assuming the “without mitigation” case. The purpose is to identify potential impacts. Use the “remarks” section to discuss any anticipated mitigation measures

Name of Enumerator/ESFP: MOI & S (Faraz Ahwaz) MOP (M. Aslam)

Name of City/MC/LG: MC Jhang

Sub-Project Sector: Solid Waste Management

Sub-Project Title: Parking Area Development for Solid Waste Machinery. (11.43 Kanals)

Sub- Project Categorization:	E-1	<input type="checkbox"/>	S-1	<input type="checkbox"/>
	E-2	<input type="checkbox"/>	S-2	<input type="checkbox"/>
	E-3	<input checked="" type="checkbox"/>	S-3	<input checked="" type="checkbox"/>

Date of Screening: 16/02/2021

Anticipated Project Activities:

- Boundary wall and Entrance Gate
- Sheds for vehicles with Steel Columns and Aluzinc sheeting at the top
- Administrative Building
- Workshop with tool room and toilet
- Open Service Station
- Parking aprons
- Guard room
- Silt Holding Tank & Septic Tank
- External Water supply, Sewerage and Drainage system

Estimated Cost of Sub-Project: 89.45 Million PKR

Approx. Completion Time: 06 Months

Estimated Labor for Sub-Project: 10-15

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following?			
Environmentally sensitive areas?			
Cultural heritage site		✓	No cultural heritage site observed within 250 meters of periphery of Sub-Project.
Legally protected Area (core zone or buffer zone)		✓	No legally protected area exists within 250 meters of radius of Sub-Project.
Any surface water body (river, canal, stream, lake, wetland) within 250 meters of proposed project?		✓	A water body observed nearby Sub-Project location.
Mangrove Forest		✓	No mangrove forest observed.
Estuarine		✓	No estuarine exists in Sub-Project proposed scope of work.
Special area for protecting biodiversity		✓	No protected area/buffer zone lies within peripheral zone of Sub-Project.
Buffer zone of protected area		✓	
Man-made forest /game reserve, orchid/crops or any other area of environmental importance	✓		Some trees observed within jurisdiction of Sub-project but no cutting of trees required as per design.
Socially sensitive/Important areas/communities/people?			
PCRs and or any site of cultural/religious importance (Graveyard, Shrine, Mosque, Church, Gordwarah, Temple, Fort, archeological/historical site) within 100 m of the proposed subproject		✓	No PCRs exists within 100 meters of periphery of Sub-Project which will be negatively impacted due to any work activities.
Sensitive receptors (Schools, colleges, hospitals and clinics) within 100 meters of the proposed sub project		✓	No such socially sensitive receptors observed nearby location of Sub-Project.
Any graveyard of local community (Muslims or Christians)		✓	No graveyard observed.
Any demographic or socio-economic aspects of the sub-project area that are already vulnerable (e.g., high incidence of marginalized populations, rural-urban migrants, illegal settlements, squatters, ethnic minorities, people with disabilities, people in old age, socially isolated segments of the society and women or children)?		✓	No such aspects get triggered due to any Sub-Project interventions.
Already existing infrastructure (including public amenities) which may be required to dismantle or may be affected temporarily by any means?		✓	No dismantling to any public infrastructure envisaged as working activities will be inside disposal station premises.
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		✓	

2. Cutting of trees?		✓	No trees cutting required as per scope of work under Sub-Project.
3. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		✓	No disruption to any habitat/ecosystem due to any Sub-Project activities.
4. Generation of wastewater during construction or operation?	✓		Wastewater will be generated during operational phase from washing pit and will be discharged directly into nearby sewerage system.
5. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		✓	No such impact anticipated.
6. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/rivers or due to increased soil erosion at construction site?		✓	No alteration of any waterway involved in the scope of Sub-Project.
7. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		✓	No workers-based camp will be required to be established as per limited work activities under Sub-Project.
8. Over pumping of ground water, leading to salinization and ground subsidence?		✓	No over pumping of ground water required under Sub-Project interventions.
9. Serious contamination of soil due to construction works?		✓	No such impact expected.
10. Aggravation of solid waste problems in the area?		✓	Negligible impact projected.
11. Generation of solid waste/hazardous waste?		✓	
12. Increased air pollution due to sub-project construction and operation?	✓		Negligible impact due to limited work activities.
13. Noise and vibration due to sub-project construction or operation?		✓	No such impact expected.
14. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		✓	No such impact expected.
15. Use of chemicals during construction?		✓	No usage of hazardous chemicals envisaged after review of proposed work activities.

C: Potential Social Impacts

Will the Sub-Project cause...

1. Impairment of historical/cultural areas; disfiguration of landscape or potential loss/damage to Physical Cultural Resources (PCRs)?		✓	No damage to any PCRs required under scope of Sub-Project.
2. Displacement or involuntary resettlement of people? (Physical displacement and/or economic displacement)		✓	No displacement/ any sort of resettlement/ economic loss envisaged due to any Sub-Project interventions.

3. Disproportionate impacts on the poor, women and children and or other vulnerable groups ¹ (mentioned above)?		✓	No such impact expected.
4. Temporary impediments in movements of people/transport and animals?	✓		There will be temporary hindrance in the movement of traffic and pedestrians.
5. Large population influx during sub-project construction and operation that causes increased burden on social infrastructure and services (such as water supply and sanitation systems)?		✓	No such impact expected.
6. Social conflicts if workers from other areas are hired?		✓	Local labor will be preferred to avoid such conflicts.
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	✓		OHS risks needs to be addressed during the construction phase.
8. Risks to community health and safety due to the transport, storage, and use and/or disposal of materials such as explosives, fuel and other chemicals during construction and operation?		✓	No such impact expected.
9. Community safety risks due to both accidental and natural causes, especially where the structural elements or components of the project are accessible to members of the affected community or where their failure could result in injury to the community throughout project construction, operation and decommissioning?		✓	No such impact expected.
10. Any impact on sensitive receptors (mentioned above)		✓	No such impact expected
11. Any impact of negative nature on already existing infrastructure including public amenities		✓	No public amenity will be negatively impact due to Sub-Project interventions.

Prepared By:

Name: Faraz Ahwaz

Designation: MOI & S

Organization: Municipal Committee, Jhang

Signature:

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs

Organization: PMDFC

Signature:



¹ Women, Children, Women headed households, People in old age, people having disabilities, socially isolated community groups and or people living below the poverty line

INVOLUNTARY RESETTLEMENT SCREENING CHECKLIST

Name of City/MC/LG: MC Jhang

Sub-Project Sector: Solid Waste Management

Sub-Project Title: Parking Area Development for Solid Waste Machinery

Sub- Project Categorization: S-1 S-2 S-3

Date of Screening: 16/02/2021

SECTION 1	Yes	No	Expected	Remarks
Does the project require land acquisition? Yes/No		✓		MC owns the 36.76 Kanals land and 11.43 Kanals will be capitalized under Sub-Project.
If yes, then describe the type of land being acquired from the categories below:				
Has any AED been conducted at the proposed location by the government ¹ ? Yes/No		✓		No AED has been conducted on the proposed location by MC.
Land (Quantify and describe types of land being acquired in “remarks column”.				N/A
Government and LG owned land free of occupation (agriculture or settlement)	✓			Sub-project site under possession of MC and free from all sorts of settlements.
Government or state-owned land (other than LG) free of occupation (agriculture or settlement)		✓		N/A
Private land		✓		N/A
Residential		✓		N/A
Commercial		✓		N/A
Agricultural		✓		N/A
Communal		✓		N/A
Others (specify in “remarks”).		✓		N/A
Name of owner/owners and type of ownership document if available.	✓			MC owns the land for Sub-Project.
If land is being acquired, describe any structures constructed on it		✓		No land needs to be acquired under Sub-Project.
Land-based assets:		✓		
Residential structures		✓		N/A
Commercial structures (specify in “remarks”)		✓		N/A
Community structures (specify in “remarks”)		✓		N/A
Agriculture structures (specify in “remarks”)		✓		N/A

¹ The sub-projects have to avoid all locations where any government led AED has been conducted.

Public utilities (specify in “remarks”)		✓		No public utility will be damaged due to any work activity.
Others (specify in “remarks”)		✓		
If agricultural land is being acquired, specify the following:		✓		No agriculture land required under Sub-Project.
Agriculture related impacts		✓		N/A
Crops and vegetables (specify types and cropping area in “remarks”).		✓		N/A
Trees (specify number and types in “remarks”).		✓		N/A
Others (specify in “remarks”).		✓		N/A
Affected Persons (APs)		✓		No APs as per scope of work and its impacts.
Will any people be displaced from the land when acquired? Yes/No		✓		No displacement of any people required under Sub-Project.
Number of APs		✓		No APs as per scope of work and its impacts.
Males		✓		N/A
Females		✓		N/A
Titled landowners		✓		N/A
Tenants and sharecroppers		✓		N/A
Leaseholders		✓		N/A
Agriculture wage laborers		✓		N/A
Encroachers and squatters (specify in remarks column)		✓		No encroachment on the Sub-project site.
Vulnerable APs (e.g. women headed households, minors and aged, orphans, disabled persons, and those below the poverty line). Specify the number and vulnerability in “remarks”.		✓		No Vulnerable APs recorded as per Sub-Project interventions.
Others (specify in “remarks”)		✓		
How will people be affected?		✓		There will no negative impact of Sub-Project interventions.

Prepared By:

Name: M. Aslam

Designation: MOP, MC Jhang

Endorsed By:

Name: Asif Gillani

Designation: Deputy Program Officer ESSs PMDFC



Sub-Project Layout



PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	JERS CONSULTANCY (PVT) LTD 33/46 Ganga Ghat Road, Ferozpur (Punjab) Tel: +91 98111 21 46/47/48/49/50 Fax: +91 98111 21 51 Email: info@jersconsultancy.com Web: www.jersconsultancy.com	PROJECT PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 213	DRAWING TITLE PROPOSED SITE PLAN LAYOUT (JHANG)	DRAWN BY MUNIR	DRAWING NO. M-03
				CHECKED BY M.HASEED	
SHEET NO. 488-01		DATE FEB. 2023		SHEET 1 OF 1	JCBNO

Pictures



Environmental & Social Management & Monitoring Plan

Parking Shed at MC Jhang

Sr. no	Activity	Environmental / social impact	Intensity of impact Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
Design phase								
1	Planning	Land acquisition and resettlement	low	This proposed site for parking shed is MC owned land. There is no illegal settlements inside disposal station.	MC ESFPs	Verification by MC		PMDFC
Construction phase								
1	Construction material storage, handling and use	<p>Environmental Issues:</p> <ul style="list-style-type: none"> ○ Ground water may be contaminated due to the any oil spillages from machinery. ○ Health risk to workers and local inhabitants. ○ Poor Housekeeping 	Medium to negligible	<ul style="list-style-type: none"> • Construction material will be covered to ensure safe passage between the destinations during transportation. • Materials will not be loaded to a higher level than the side and tail boards and shall be covered with a good quality tarpaulin; • At subproject site there will be vacant space after clearance of site for safe and temporary storage of material Anyhow, if land may need to be acquired for temporary storage of machinery & materials contractor will be liable to compensate the land 	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/ Weekly Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team

Sr. no	Activity	Environmental / social impact	Intensity of impact Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
		Social Issues: Land acquisition for storage of construction material		owner accordingly through agreement/ negotiations/voluntarily. <ul style="list-style-type: none"> • Contractor will lay/utilize construction materials as per work requirement from his storage site. • Contractor will use night vision reflective signboards/ reflective tapes to cordon off the area during construction activities. 				
2	Labor Camp (if established by Contractor)	Health impacts due to absence of housing and sanitation facilities in labor camp	Medium	<ul style="list-style-type: none"> • Only 10-15 local labor will be hired by the contractor. • There will be no need to establish the labor camp or house rent. • In case, there is need to accommodate the Environmental, Health & Safety SOPs for labor will be followed. Contractor will submit Campsite Management Plan and approve from DPO-ESSs before the execution of work. 	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/ Weekly • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team
3	Vehicle Movement	<ul style="list-style-type: none"> • Traffic congestion • Conflicts • Vehicle emissions 	Negligible	<ul style="list-style-type: none"> • Sign boards and posters will also be displayed at Sub-project site and adjacent areas as well. Inform the residents about timing, schedule and construction work duration. 	Contractor	Visual/ Pictures, Vehicle emission tests reports,	<ul style="list-style-type: none"> • Daily site visit during construction phase • Fortnightly/ Weekly 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team

Sr. no	Activity	Environmental / social impact	Intensity of impact Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
						GRM ² Complaints record	• Once during the construction phase	
4	Cutting of Trees	<ul style="list-style-type: none"> • Aesthetic impact 	High	<ul style="list-style-type: none"> • No trees need to be cutted as per design. 	Contractor Supervision Consultants E&S team	Visual/ Pictures	<ul style="list-style-type: none"> • Once during the construction phase 	<ul style="list-style-type: none"> • ESFPs • DPO ESM • Supervision Consultants E&S team
5	Construction activity and Vehicle	<p>Noise pollution/ due to construction vehicle</p> <p>Air Pollution due to dust</p>	Moderate	<ul style="list-style-type: none"> • Labor will be exposed to noise & air pollution. • Contractor will ensure the use of well-tuned machinery and skilled labor • Providing Personal Protective measures to labors. • Water sprinkling will be done on regular basis. 	Contractor	Visual/ Pictures	Once during the construction phase	<ul style="list-style-type: none"> • ESFPs • DPO ESM Supervision Consultants E&S team
6	Construction waste	waste generation due to construction activities	Moderate	<ul style="list-style-type: none"> • Waste will be removed from site on alternate days. • At project site one area within boundary will be used as 	Contractor	Visual/ Pictures	Once during the construction phase	<ul style="list-style-type: none"> • ESFPs • DPO ESM

² GRM for subproject implementation will cater to all subproject beneficiaries. The GRM mechanism is based on two-tier grievance redress committees—at MC Jhang, PMDFC/LG&CDD level. At construction site number of GRC members will be display.

Sr. no	Activity	Environmental / social impact	Intensity of impact Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
				<p>collection and transfer point of waste.</p> <ul style="list-style-type: none"> Waste bins will be hanged at site at different location. 				Supervision Consultants E&S team
		Contamination of nearby water body	Moderate to Negligible	<ul style="list-style-type: none"> Labor will be trained not to dispose of construction material in any surface water body. This training will be conducted before start of construction phase. Time to time training on waste management will be imparted. 	Contractor	Visual/ Pictures	Once during the construction phase	<ul style="list-style-type: none"> ESFPs DPO ESM Supervision Consultants E&S team
07	Occupational Health & Safety	<ul style="list-style-type: none"> Injuries to workers/LTI 	High	<ul style="list-style-type: none"> Contractor will follow PMDFC designed Environment, Health and Safety SOPs for Labor/Workers for all activities on the site and these SOPs will be the part of his term of reference and contractual agreement. Workers will be trained by the PMDFC ESM team and guided to follow SOPs and will be provided with necessary PPEs (Safety Helmets, Safety Shoes, Gloves, Chemical Masks etc.) wherever required. First aid will be provided onsite Careful monitoring will also be carried out. 	Contractor	Visual/ Pictures	<ul style="list-style-type: none"> Daily site visit during construction phase Fortnightly/ Weekly <p>Once during the construction phase</p>	<ul style="list-style-type: none"> ESFPs DPO ESM Supervision Consultants E&S team

Sr. no	Activity	Environmental / social impact	Intensity of impact Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
Operational Phase								
1	Washing Vehicles	Wastewater Generation	Medium	<ul style="list-style-type: none"> • The cleaning facility must be properly designed, with the necessary slope so that washing water is correctly collected and, therefore, it is not missed around and causes problems (flooding, odour, nuisance to neighbours, etc.). • It is recommended to close or delimit the washing area with walls to prevent spray and stuck dirt getting out of the washing area. • The washing area must be far from cleaning products storage area to avoid chemical products runoff. • Avoid washing vehicles out of the area specially designed for it, and it also prevents wastewater discharge into surface water or soil. 	MC	-	Regular	MC officials

Sr. no	Activity	Environmental / social impact	Intensity of impact Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
				<ul style="list-style-type: none"> • Build suitable drainage systems in the workshop to avoid flooding of wastewater • Set up wastewater intercepting facilities (such as kerb or collection channels) around workshops to avoid egress wastewater. • Do not allow the overflow of wastewater 				
2	Water Consumption & Conservation	Impact on water quantity	medium	<ul style="list-style-type: none"> • Pressure lances must be replaced by washing brushes when cleaning the ground, thus decreasing water consumption. • Use buckets to carry water and towels to wash cars • Do not allow water to run continuously from taps and spray. • Users must be informed about how much water is saved when washing the car in efficient facilities. 	MC	-	Regular	MC officials

Sr. no	Activity	Environmental / social impact	Intensity of impact Low/medium/high	Mitigation/ Remediation	Mitigation Implementation Responsibility	Monitoring Indicators	Monitoring Frequency	Monitoring Responsibility
				<ul style="list-style-type: none"> Environmental benefits derived from proper management of water must be announced. 				

**Estimated Environment Management & mitigation cost
Parking Shed MC Jhang**

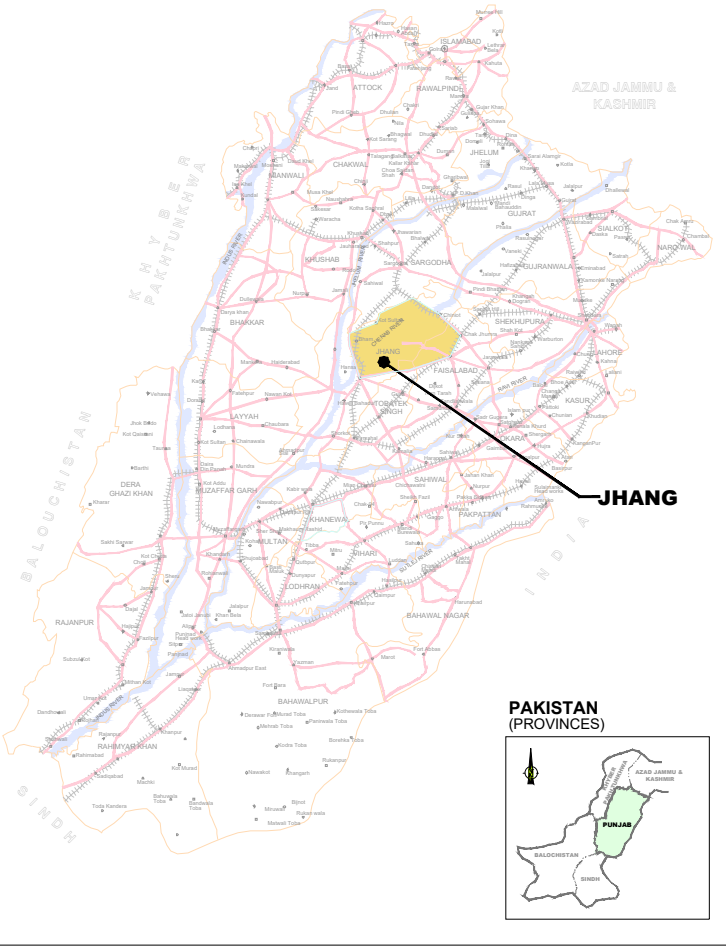
Sr. no	Description	Unit	Quantity	Unit rate	Amount (Rs)
	Face Masks (3 PLY)	Nos	10.0	700./RS	7000.
	Safety Gum Shoes	Nos	15.0	1350./RS	20,250
	Hand Gloves	Nos	15.0	245./RS	3675
	*First Aid Box (Including essential Medicine)	Nos	1.0	5000./RS	5000
	*Safety Hard Helmets MSA	Nos	15.0	2000./RS	30,000
	Safety Goggles	Nos	15.0	550./RS	8250
	*Reflective Safety Vests	Nos	15.0	550./RS	8250
	Sub-Total				82,425
	*Reflective Safety Signs Boards	Nos	2.0	10,000. /RS	20,000
	*Reflective Safety Barricading Tape	Nos	2.0	1500./RS	3000
	*Fire Extinguishers DCP	Nos	1.0	7000./RS	7000
	Sub-Total				30,000
	Total amount				112,425

Annexure-F

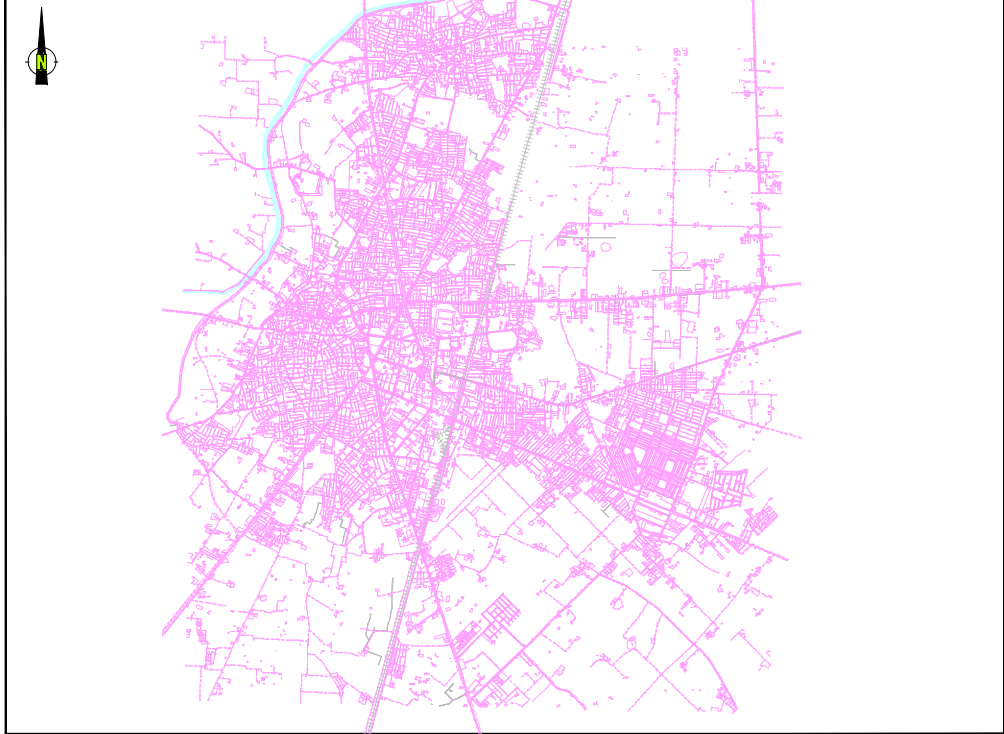
Project Drawings

**PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB, PAKISTAN**

**PUNJAB PROVINCE
 (PAKISTAN)**



**JHANG CITY
 (PAKISTAN)**



**DETAILED DESIGN
 DRAWINGS OF
 SWM PARKING AREA
 MC JHANG
 PUNJAB, PAKISTAN**

FEBRUARY, 2023

CLIENT:



**PUNJAB MUNICIPAL DEVELOPMENT
 FUND COMPANY
 (PMDFC)**

CONSULTANT:



JERS CONSULTANCY (PVT) LTD

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 Tel: +92 42 35113123, +92 42 35113124
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 E-mail: info@jers.com.pk, mail@jers.com.pk
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LIST OF DRAWINGS

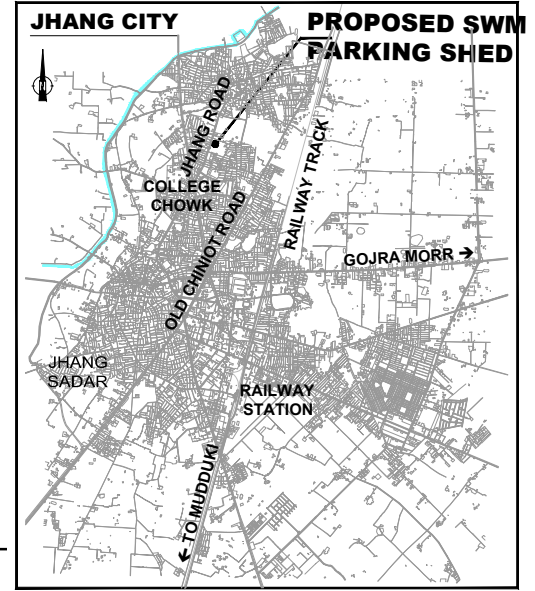
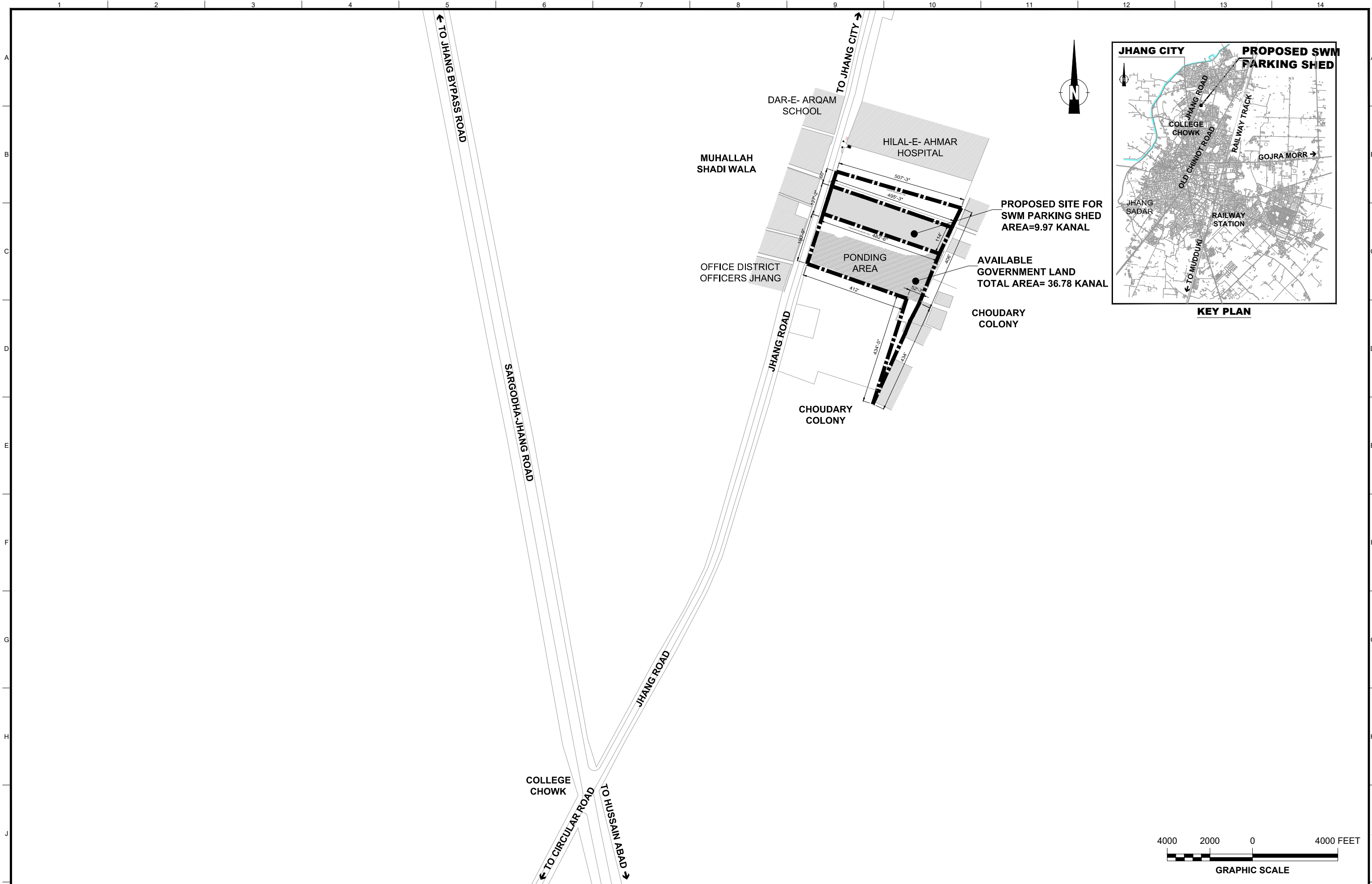
Sr.No.	SURVEY AND MASTER PLANNING	DRAWING NO.
1	PROJECT AREA LOCATION LAYOUT PLAN	M-00
2	LEGEND AND NOTES	M-01
3	TOPOGRAPHIC SURVEY LAYOUT PLAN - SWM PARKING SHED	M-02
4	PROPOSED LAYOUT PLAN - SWM PARKING SHED	M-03
5	SECTIONAL DETAIL PARKING SHED AREA	M-04
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8	ARCHITECTURE DETAIL - GUARD ROOM	AR-11
9	ARCHITECTURE DETAIL - WORKSHOP	AR-12 TO 20
10	ARCHITECTURE DETAIL - OPEN SERVICE STATION	AR-21
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21	ROOF FRAMING LAYOUT PLAN - PARKING SHED-1 A	ST-05
22	ROOF SHEETING LAYOUT PLAN - PARKING SHED-1A	ST-06
23	TYPICAL CROSS SECTION - PARKING SHED-1A	ST-07
24	FOOTING LAYOUT PLAN - PARKING SHED-1B	ST-08
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28	ROOF FRAMING LAYOUT PLAN - PARKING SHED-1 B	ST-12
29	ROOF SHEETING LAYOUT PLAN - PARKING SHED-1B	ST-13
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32	FOOTING DETAIL PEDESTAL PARKING SHED-2B	ST-16
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35	ROOF FRAMING LAYOUT PLAN - PARKING SHED-2B	ST-19
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37	TYPICAL CROSS SECTION - PARKING SHED-2B	ST-21
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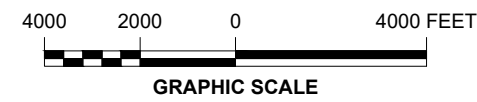
Sr.No.	PLUMBING DRAWINGS	DRAWING NO.
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64	WATER SUPPLY & SEWER SYSTEM LAYOUT PLAN - SWM PARKING SHED	PH-04
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75	SINGLE LINE DIAGRAM OF MAIN PANEL BOARD - SWM PARKING SHED	SLD-01
76	DETAIL OF ,EXT L & SHED:01	SLD-02
77	DETAIL OF DB-ADMIN BLOCK SHED:02,03 ,04 & 05	SLD-03

CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 207	DRAWING TITLE: LIST OF DRAWINGS SWM PARKING SHED (JHANG)	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION													DRAWN BY: MUNIR CHECKED BY: M. HASEEB DATE: FEB,2023	DRAWING NO: L-00 SCALE: NTS SHEET: 1 OF 1 JOB NO: 488-01
REV.	DATE	DESCRIPTION																			



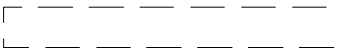



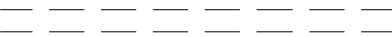

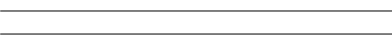



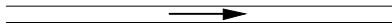

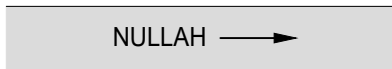
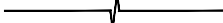

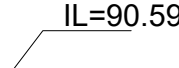
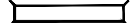

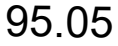




KEY PLAN



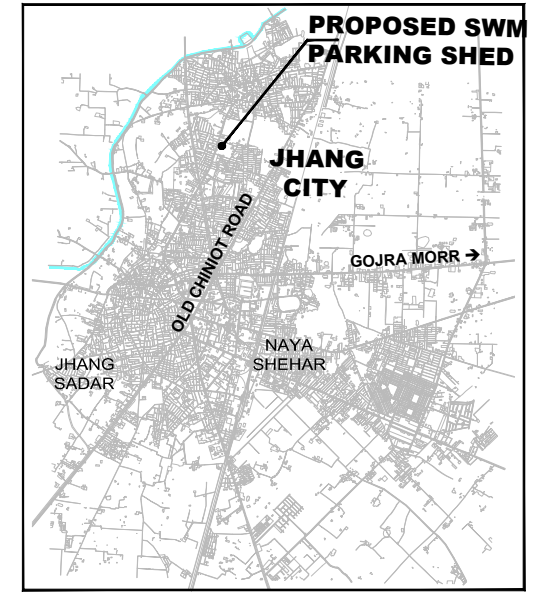
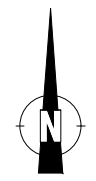
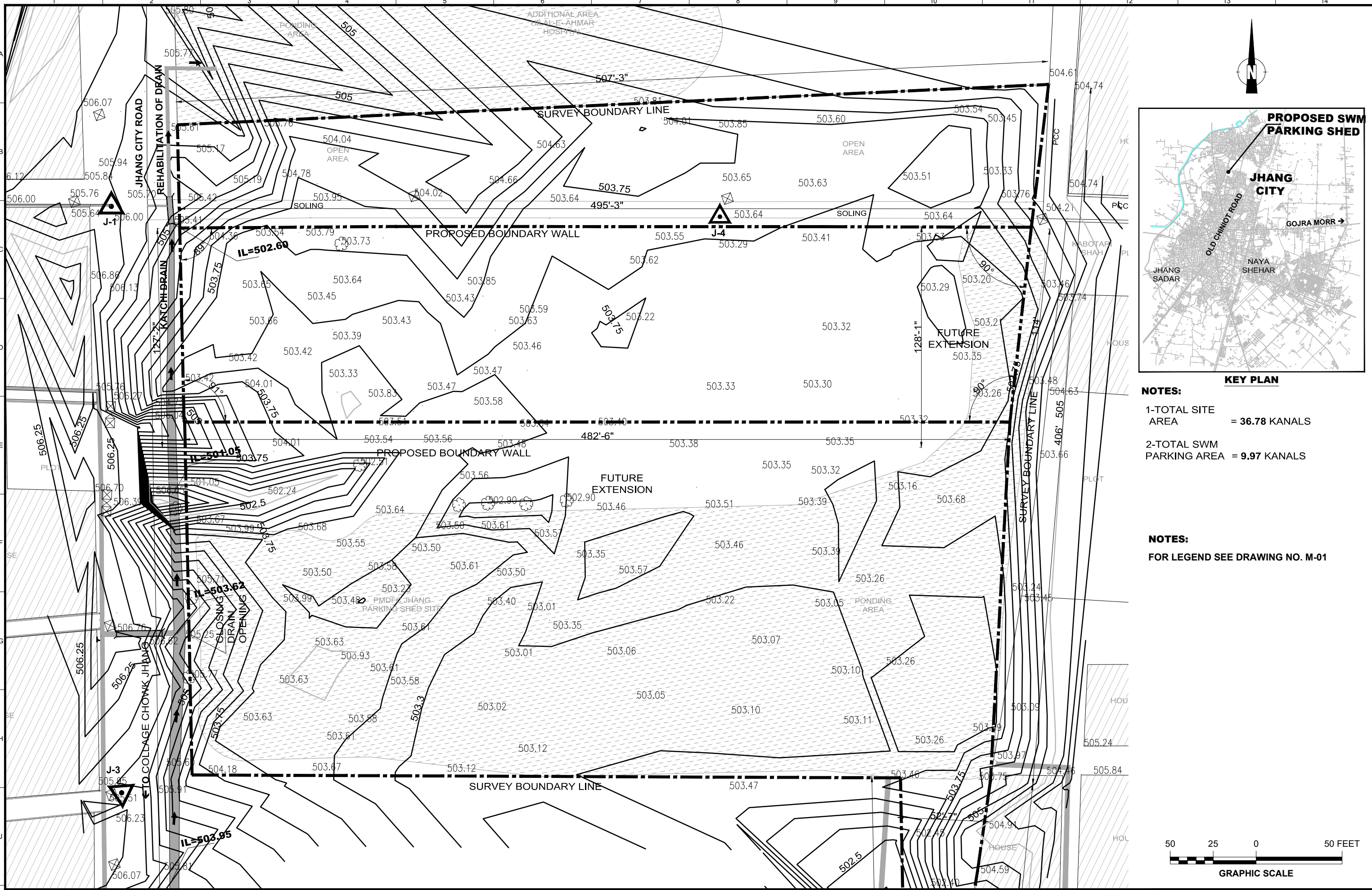
CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 208	DRAWING TITLE: LOCATION PLAN OF PROPOSED SWM PARKING AREA (JHANG)	REV.	DATE	DESCRIPTION	DRAWN BY: MUNIR	DRAWING NO: M-00
				-	-	-	CHECKED BY: M.HASEEB	
				-	-	-	DATE: FEB, 2023	

LEGEND:

BUILDING		BENCH MARK (BM)	 BM.12
EXISTING STRUCTURE ON SITE		TRANSFORMER	
ROAD/STREET		ELECTRIC POLE	
KATCHA TRACK		TELEPHONE POLE	
FOOTPATH		LIGHT POLE	
GATE		SEWER MANHOLE	
DRAIN		TREE	
NULLAH		BREAK LINE	
PROPOSED BOUNDARY LINE		INVERT LEVEL	
CULVERT		CONTROL POINT	
SPOT LEVEL		CULVERT	
CONTOUR - MINOR			

REV.	DATE	DESCRIPTION
-	-	-

TOPOGRAPHIC SURVEY



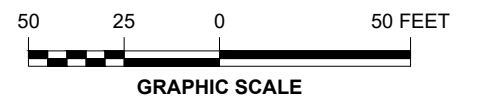
KEY PLAN

NOTES:

- 1-TOTAL SITE AREA = 36.78 KANALS
- 2-TOTAL SWM PARKING AREA = 9.97 KANALS

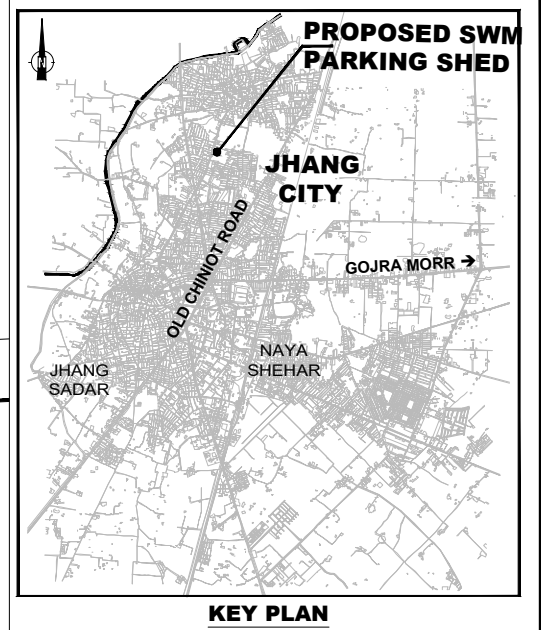
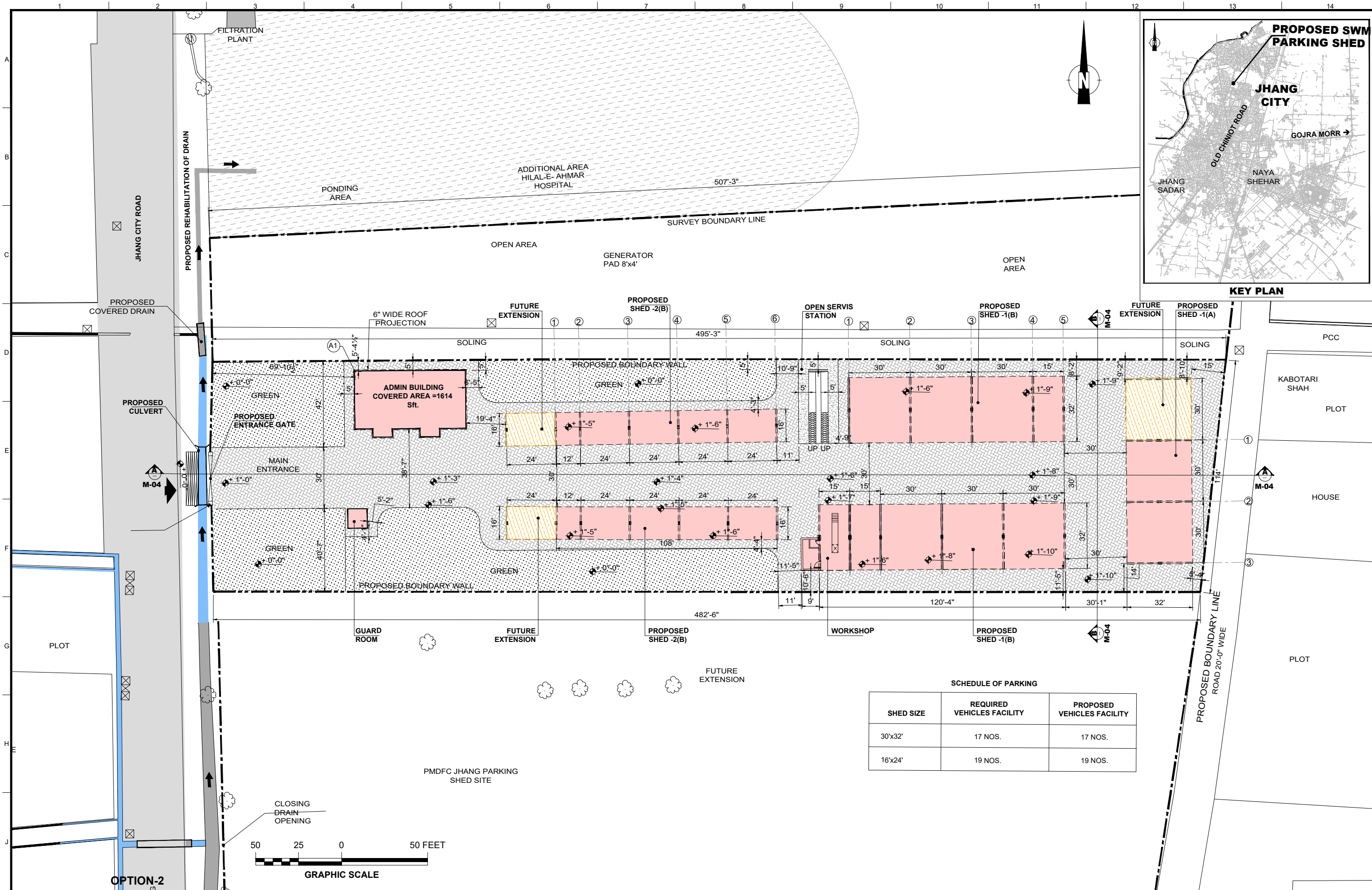
NOTES:

FOR LEGEND SEE DRAWING NO. M-01



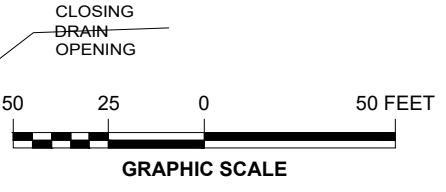
<p>CLIENT:</p> <p>PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)</p>	<p>CONSULTANTS:</p> <p>JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</p>	<p>PROJECT:</p> <p align="center">PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 211</p>	<p>DRAWING TITLE:</p> <p align="center">SWM PARKING SHED SITE TOPOGRAPHIC SURVEY (JHANG)</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	DATE	DESCRIPTION							<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DRAWN BY: MUNIR</td> <td rowspan="2">DRAWING NO: M-02</td> </tr> <tr> <td>CHECKED BY: M.HASEEB</td> </tr> <tr> <td>DATE: FEB,2023</td> <td>SCALE: UNIT=FEET 1"=600'</td> </tr> <tr> <td> </td> <td>SHEET: JOB NO: 488-01</td> </tr> </table>	DRAWN BY: MUNIR	DRAWING NO: M-02	CHECKED BY: M.HASEEB	DATE: FEB,2023	SCALE: UNIT=FEET 1"=600'		SHEET: JOB NO: 488-01
REV.	DATE	DESCRIPTION																			
DRAWN BY: MUNIR	DRAWING NO: M-02																				
CHECKED BY: M.HASEEB																					
DATE: FEB,2023	SCALE: UNIT=FEET 1"=600'																				
	SHEET: JOB NO: 488-01																				

MASTER LAYOUT PLAN

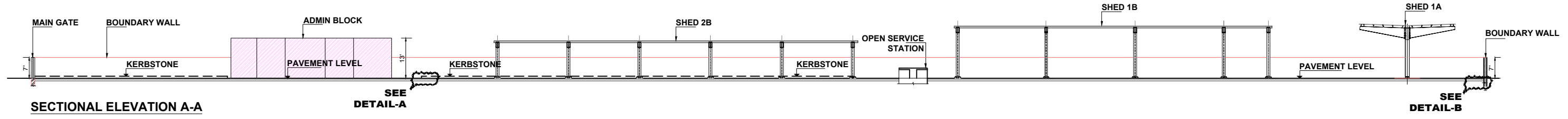


SCHEDULE OF PARKING

SHED SIZE	REQUIRED VEHICLES FACILITY	PROPOSED VEHICLES FACILITY
30'x32'	17 NOS.	17 NOS.
16'x24'	19 NOS.	19 NOS.



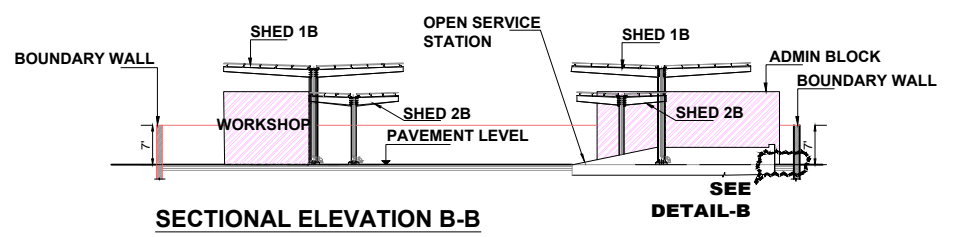
CLIENT: PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS: JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 213	DRAWING TITLE: PROPOSED SITE PLAN LAYOUT (JHANG)	DRAWN BY: MUNIR CHECKED BY: M.HASEEB DATE: FEB,2023	DRAWING NO: M-03 SCALE: UNIT=FEET 1"=50' SHEET: - JOB NO: 488-01						
				<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION				
REV.	DATE	DESCRIPTION									



SECTIONAL ELEVATION A-A

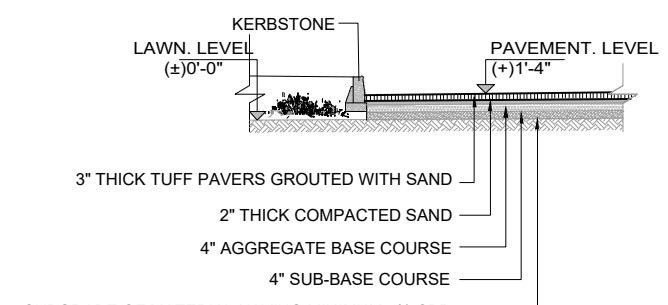
SEE
DETAIL-A

SEE
DETAIL-B

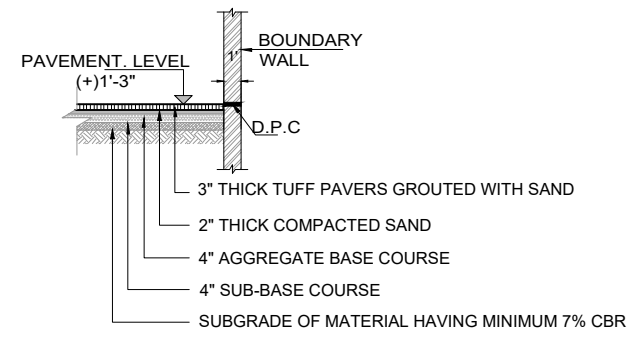


SECTIONAL ELEVATION B-B

SEE
DETAIL-B



DETAIL-A



DETAIL-B

CLIENT:



PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:



JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
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 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

PROJECT:

PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 214

DRAWING TITLE:

**SECTIONAL DETAIL
 PARKING SHED AREA
 (JHANG)**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
MUNIR

CHECKED BY:
M.HASEEB

DATE:
Feb,2023

DRAWING NO:
M-04

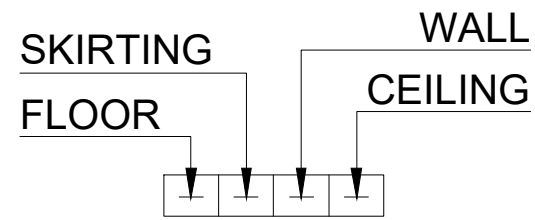
SCALE:
UNIT=FEET
1"=25'

SHEET:
1 OF 1
JOB NO:
488-01

ARCHITECTURAL DRAWINGS

SCHEDULE OF INTERNAL FINISHES

LEGEND

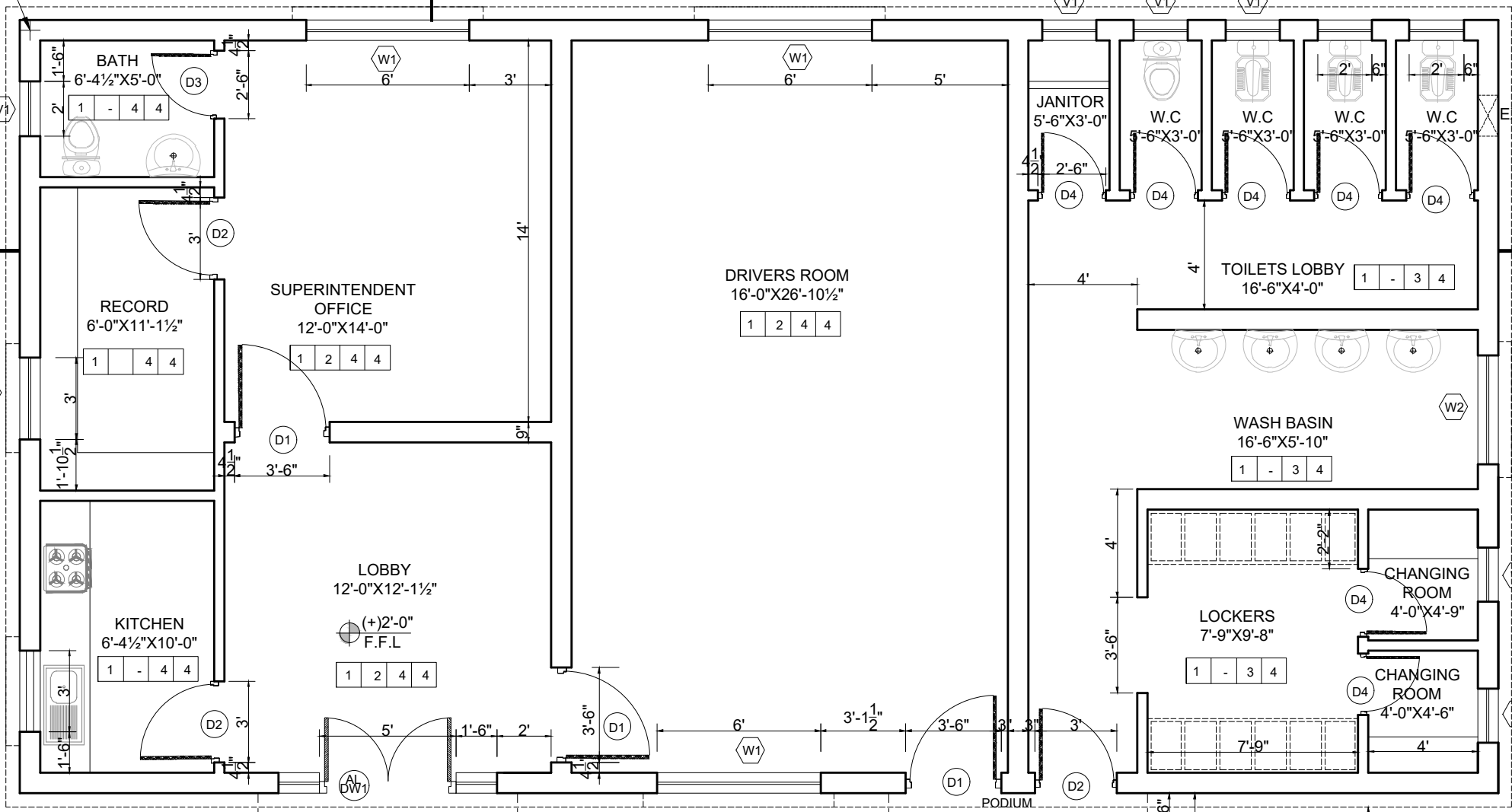
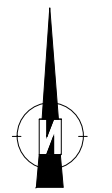


- ① PORCELAIN TILES OF APPROVED SIZE PATTERN AND COLOR
- ② 4" HIGH PORCELAIN TILES SKIRTING
- ③ PORCELAIN TILES OF (APPROVED MAKE & SHADE) 5'-0" HIGH FOR BATH ROOMS WITH DISTEMPER (OF APPROVED MAKE & SHADE) ABOVE UPTO CEILING
- ④ DISTEMPER ON C.S PLASTER (APPROVED MAKE & SHADE)
- ⑤ P.C.C TUFF PAVERS 80mm THICK HAVING 7000 PSI GRADING STRENGTH OVER 2" THICK SAND, 4" AGGREGATE BASE COURSE, AND 4" SUB-BASE COURSE

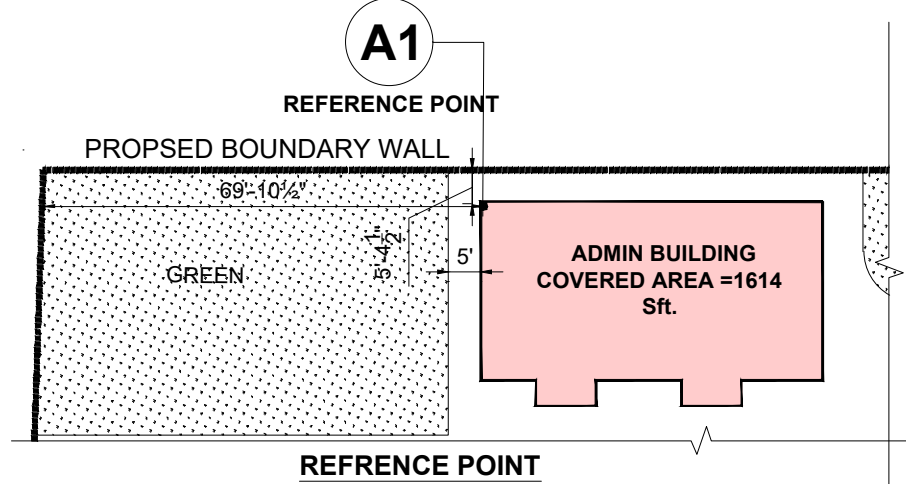
SCHEDULE OF EXTERNAL FINISHES


- ⑥ DEEP STRUCK POINTING (1:2)
- ⑦ CEMENT /SAND PLASTER (1:3)
- ⑧ 9"X4½"X1½" THICK ROOF TILES

A1
 5'-4 1/2" from
 Boundary Wall
 69'-10 1/2" from
 Boundary Wall



GROUND FLOOR PLAN
 TOTAL COVERED AREA=1614 SFT



CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

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 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 217

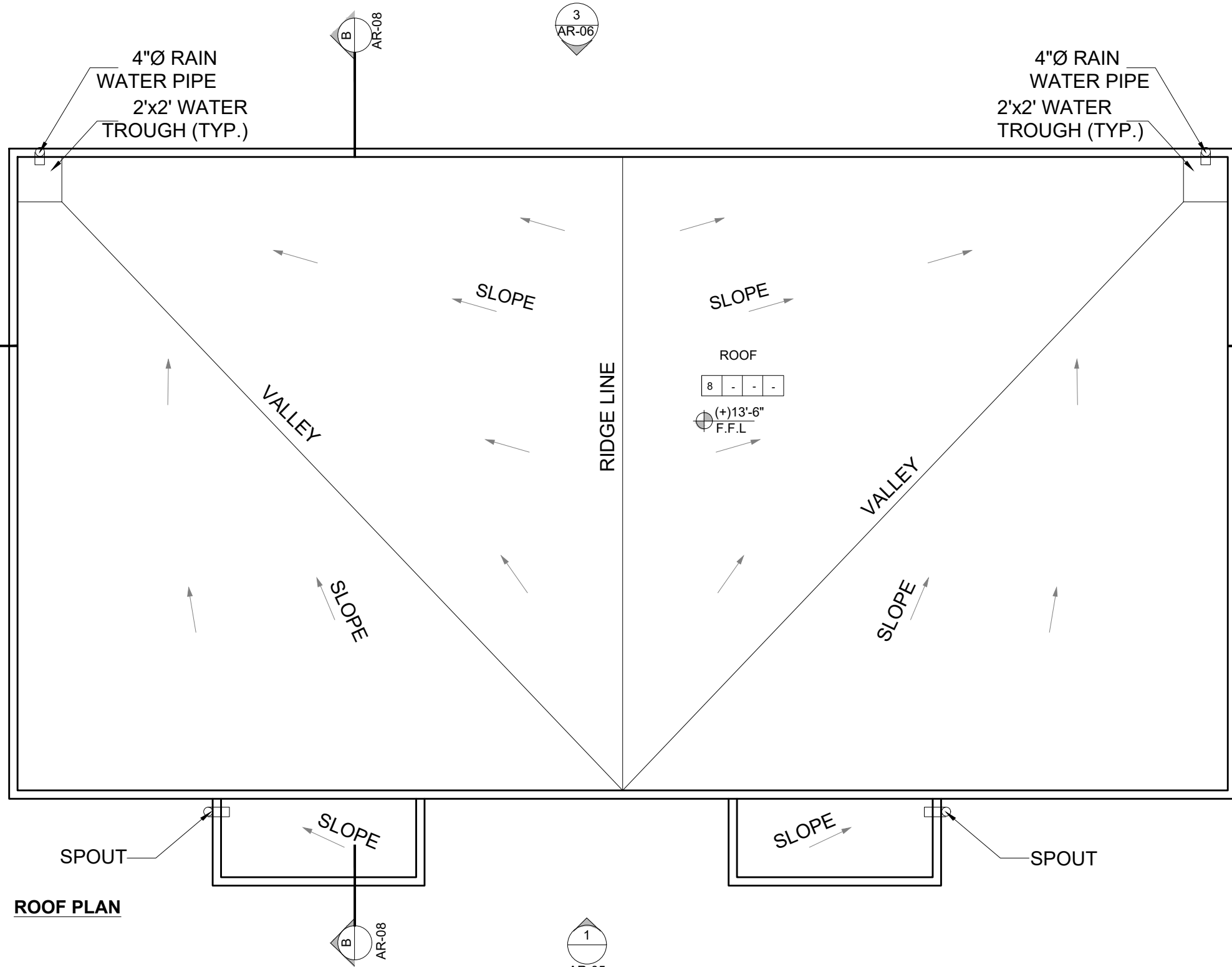
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GROUND FLOOR PLAN ADMINISTRATIVE BLOCK

REV.	DATE	DESCRIPTION

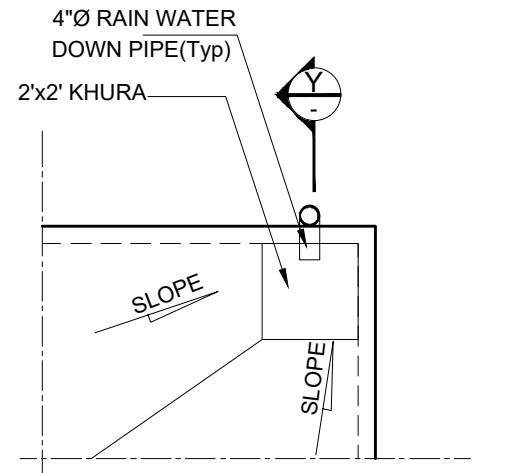
DRAWN BY:
 MUNIR
 CHECKED BY:
 M.HASEEB
 DATE:
 FEB,2023

DRAWING NO:
AR-02
 SCALE:
 UNIT=FEET
 1/4"=1'-0"

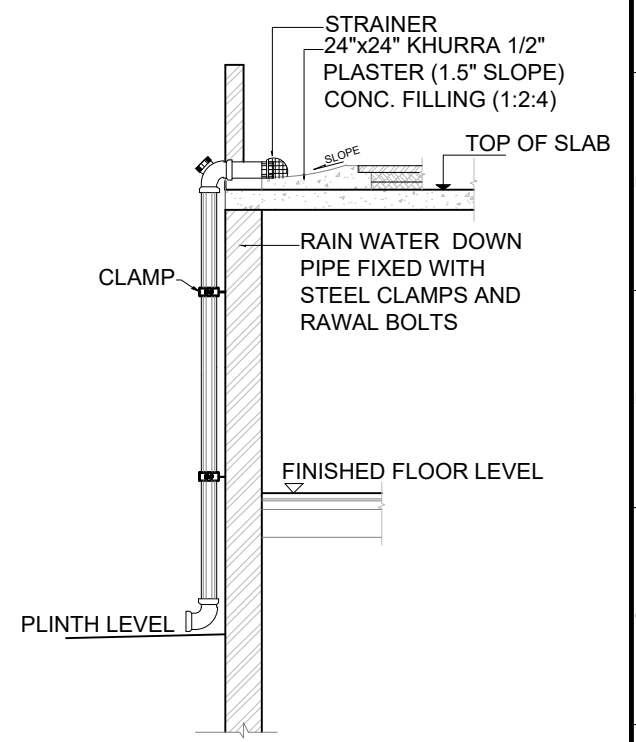
SHEET:
 1 OF 1
 JOB NO:
 488-01



ROOF PLAN

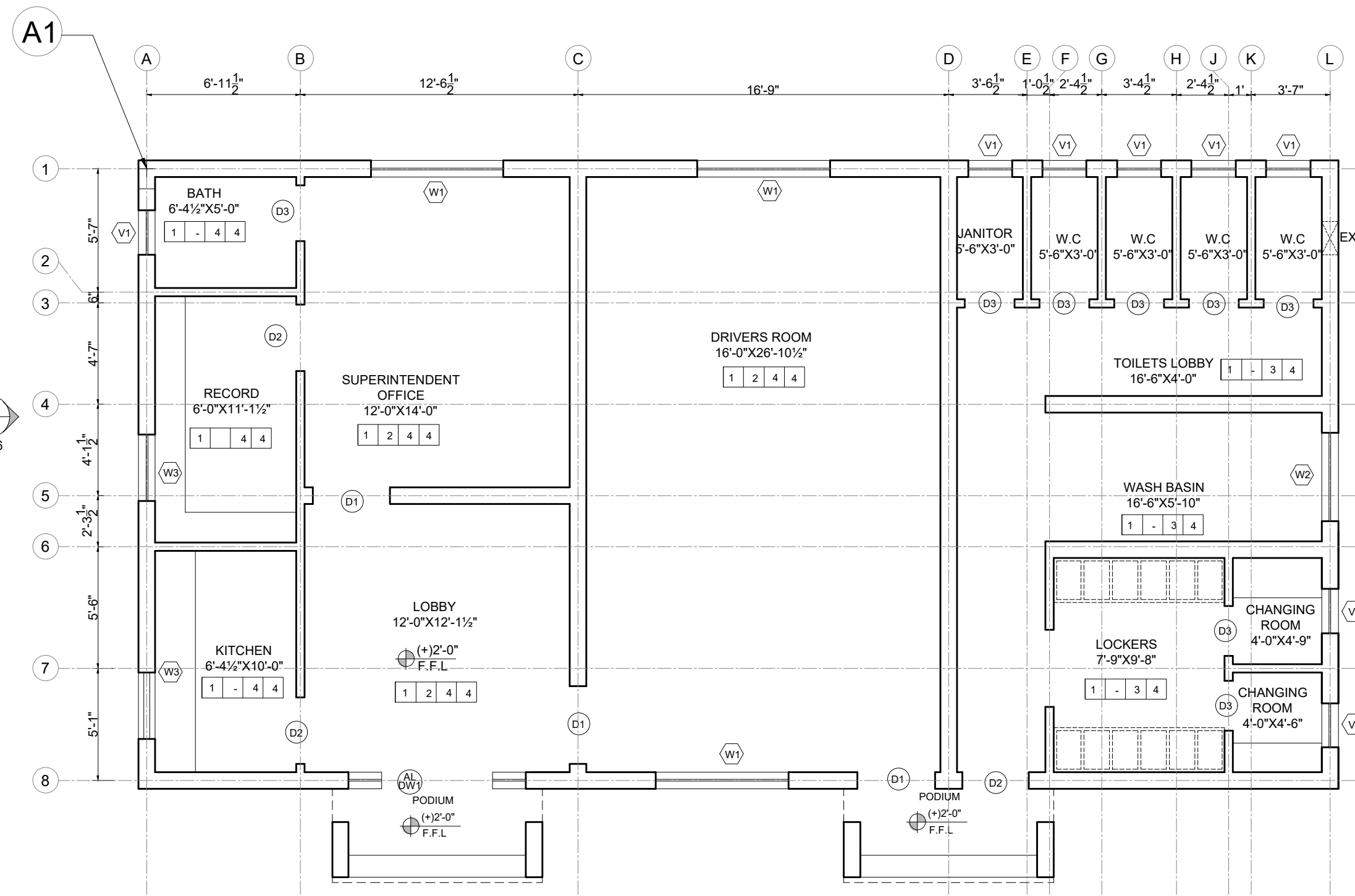


DETAIL PART PLAN OF KHURRA(Typ) SCALE 1/4"=1'



SECTION Y-Y

<p>CLIENT:</p> <p>PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)</p>	<p>CONSULTANTS:</p> <p>JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small></p>	<p>PROJECT:</p> <p align="center">PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 218</p>	<p>DRAWING TITLE:</p> <p align="center">ROOF PLAN ADMINISTRATIVE BLOCK</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	REV.	DATE	DESCRIPTION													<p>DRAWN BY: MUNIR</p> <p>CHECKED BY: M.HASEEB</p> <p>DATE: FEB,2023</p>	<p>DRAWING NO: AR-03</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SCALE: UNIT=FEET NTS</td> <td>SHEET: 1 OF 1 JOB NO: 488-01</td> </tr> </table>	SCALE: UNIT=FEET NTS	SHEET: 1 OF 1 JOB NO: 488-01
REV.	DATE	DESCRIPTION																					
SCALE: UNIT=FEET NTS	SHEET: 1 OF 1 JOB NO: 488-01																						



GROUND FLOOR PLAN
TOTAL COVERED AREA=1614 SFT

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
Tel: +92 42 35113123, +92 42 35113124
Fax: +92 42 35113125
E-mail: info@jers.com.pk, mail@jers.com.pk
Web: http://www.jers.com.pk

PROJECT:

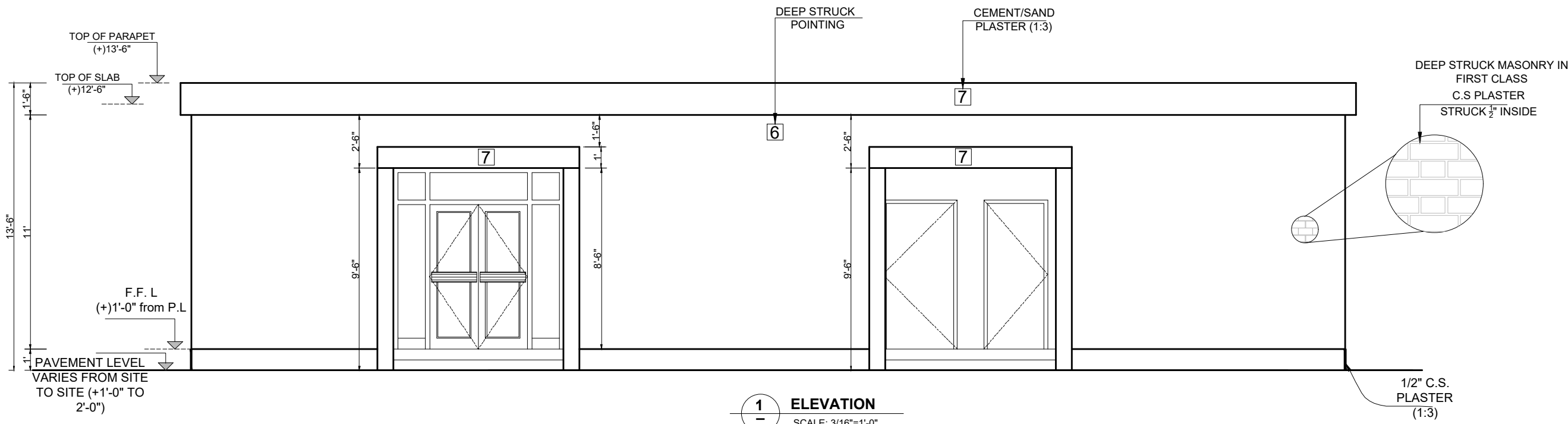
PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 219

DRAWING TITLE:

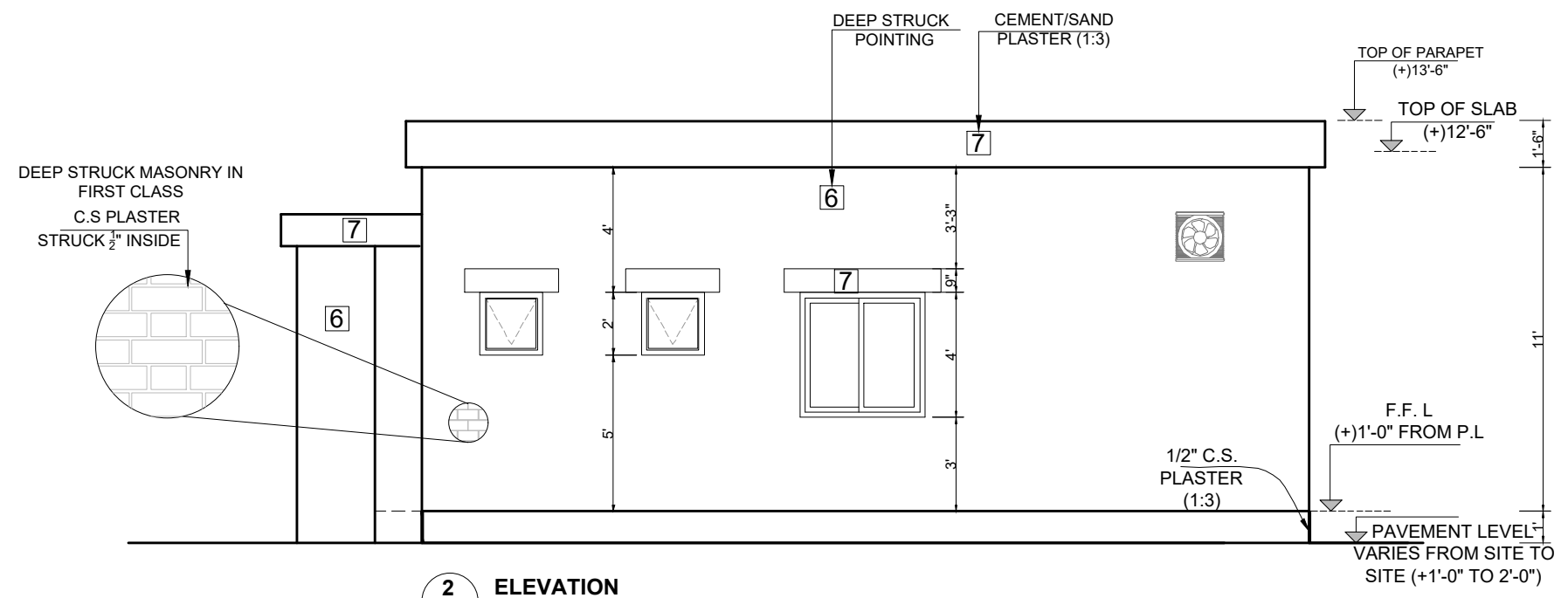
CENTER LINE PLAN
ADMINISTRATIVE BLOCK

REV.	DATE	DESCRIPTION



DRAWN BY: MUNIR	DRAWING NO: AR-04
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01

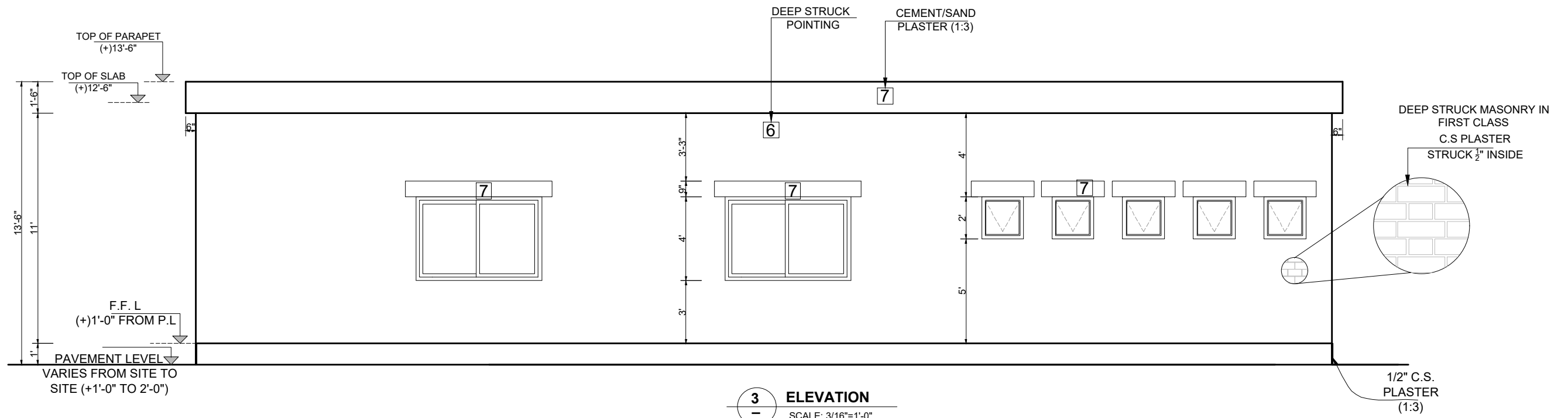


1 ELEVATION
SCALE: 3/16"=1'-0"

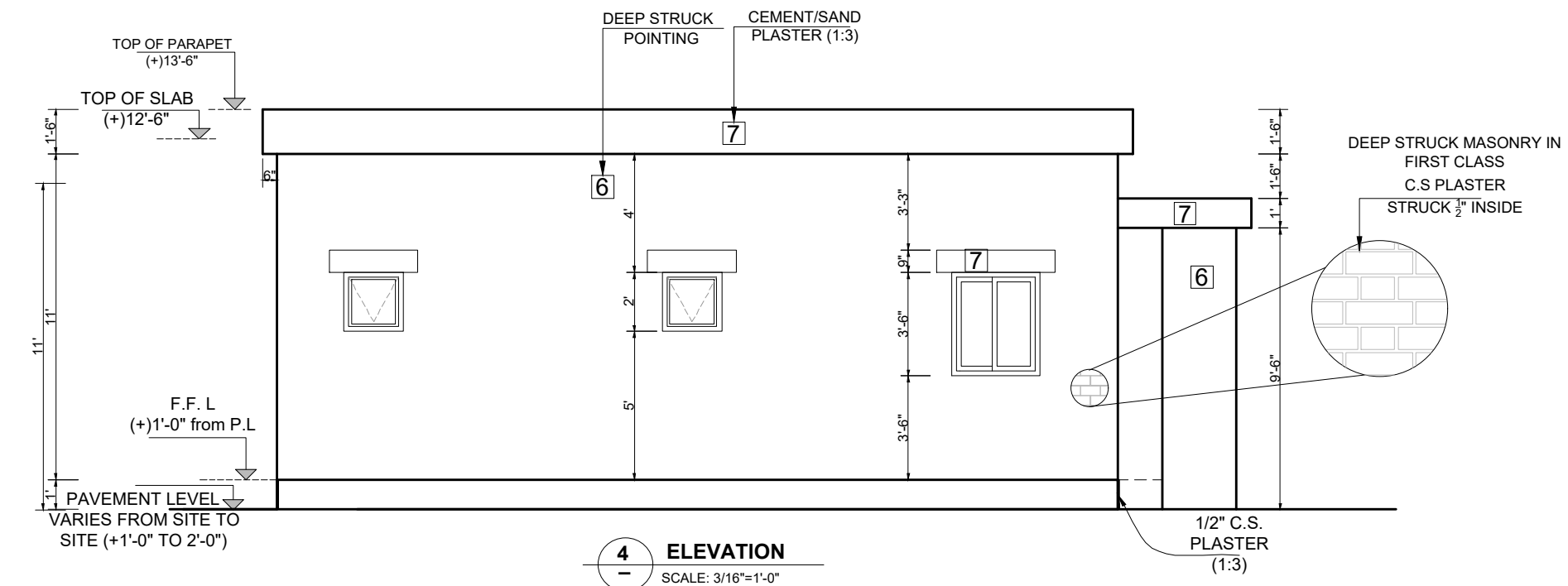


2 ELEVATION
SCALE: 3/16"=1'-0"

CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 220	DRAWING TITLE: ELEVATION - 01 & 02 ADMINISTRATIVE BLOCK	DRAWN BY: MUNIR	DRAWING NO: AR-05												
				CHECKED BY: M.HASEEB		SCALE: UNIT=FEET NTS	SHEET: 1 OF 1 JOB NO: 488-01										
<table border="1"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				REV.	DATE	DESCRIPTION										DATE: FEB,2023	UNIT=FEET NTS
REV.	DATE	DESCRIPTION															



3 ELEVATION
SCALE: 3/16"=1'-0"



4 ELEVATION
SCALE: 3/16"=1'-0"

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

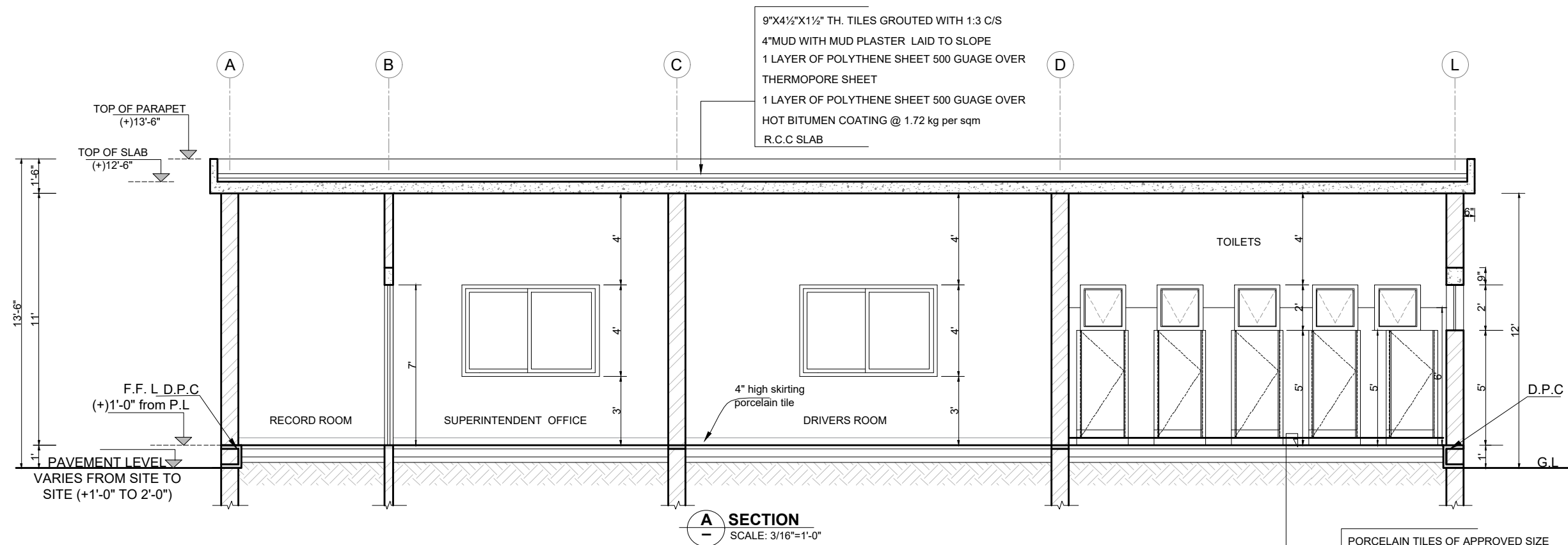
JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

PROJECT:
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 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 221

DRAWING TITLE:
ELEVATION - 03 & 04
ADMINISTRATIVE BLOCK

REV.	DATE	DESCRIPTION

DRAWN BY: MUNIR	DRAWING NO: AR-06
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01



PORCELAIN TILES OF APPROVED SIZE
 PATTERN AND COLOR
 2" TH.P.C.C 1:2:4
 4" THICK BRICK BALAST
 3" THICK SAND FILLING
 WELL COMPACTED EARTH

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

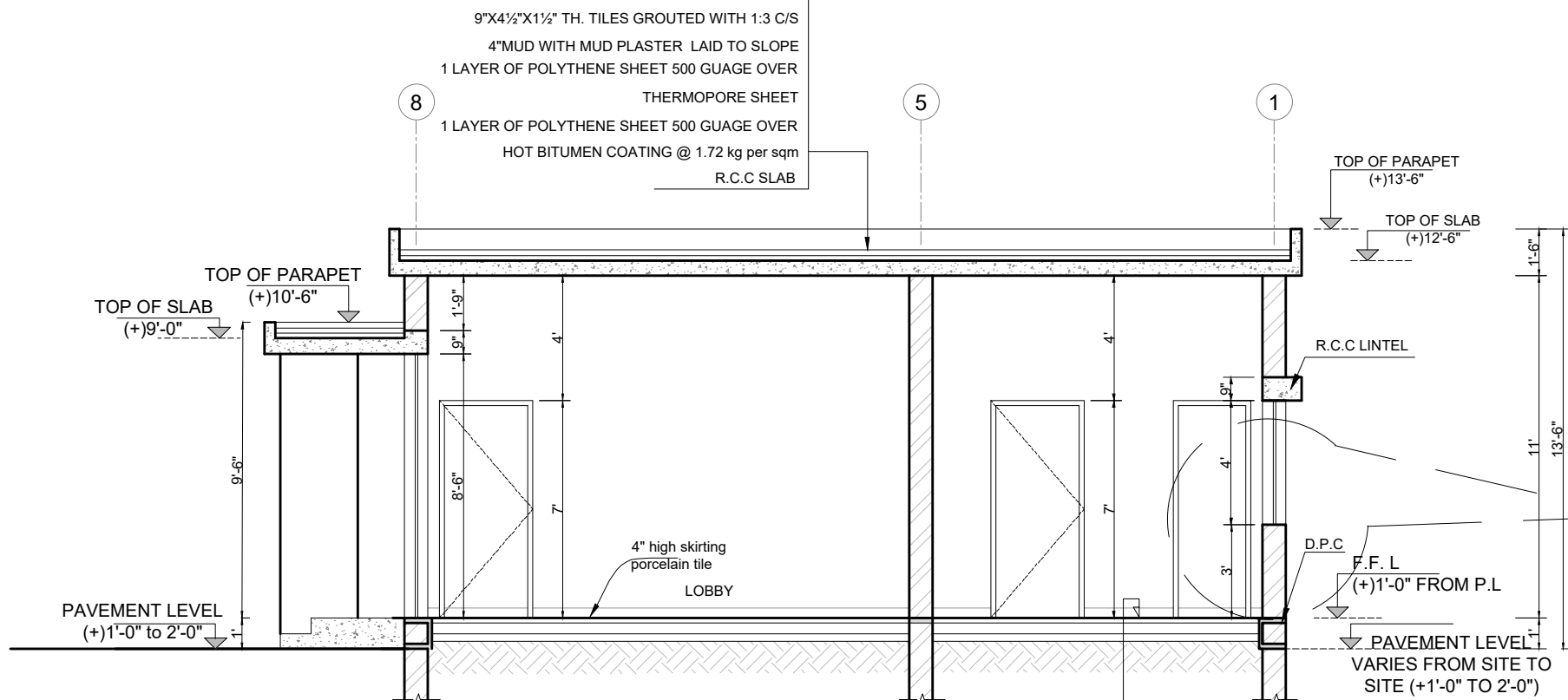
CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 222

DRAWING TITLE:
SECTION - AA
ADMINISTRATIVE BLOCK

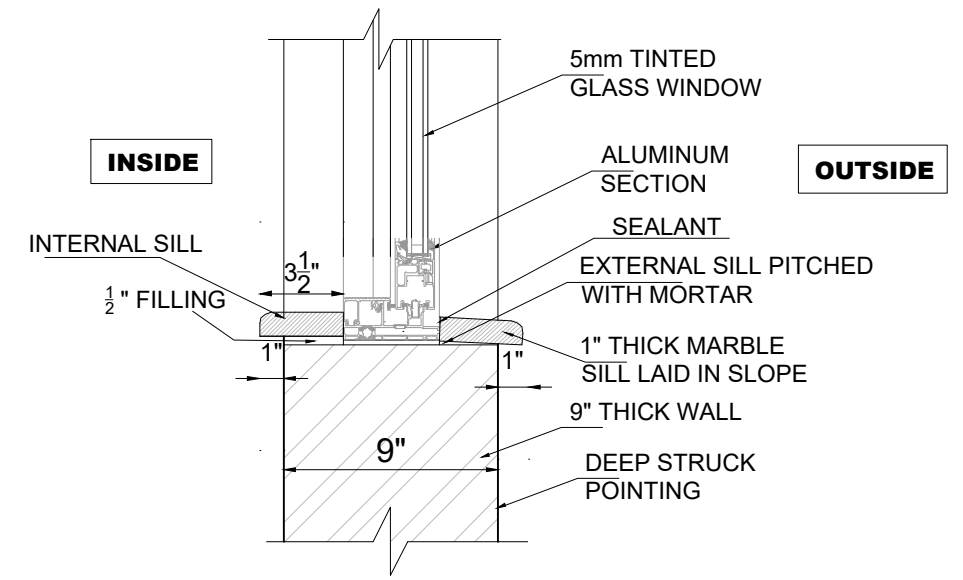
REV.	DATE	DESCRIPTION

DRAWN BY: MUNIR	DRAWING NO: AR-07
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01



B SECTION
SCALE: 1/4"=1'-0"

SEE DETAIL B-B



DETAIL B-B

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

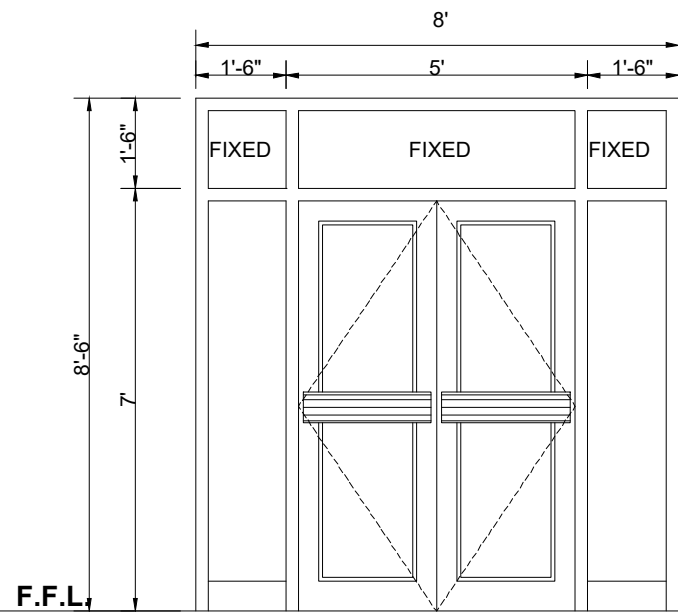
CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 223

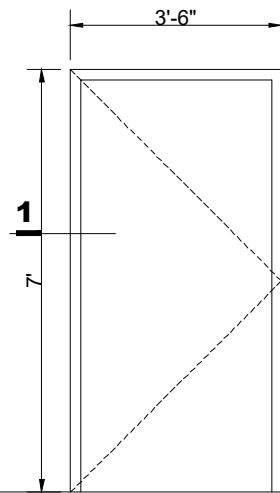
DRAWING TITLE:
SECTION - B B
ADMINISTRATIVE BLOCK

REV.	DATE	DESCRIPTION

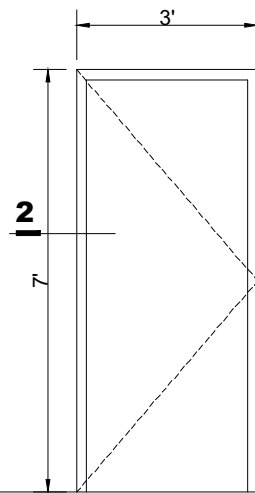
DRAWN BY: MUNIR	DRAWING NO: AR-08
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01



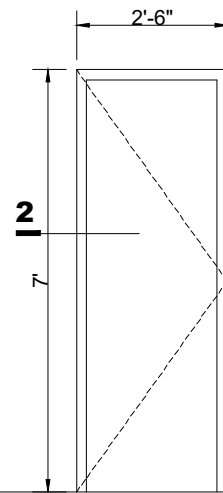
ALDW 1
ALUMINUM GLAZED DOOR WINDOW



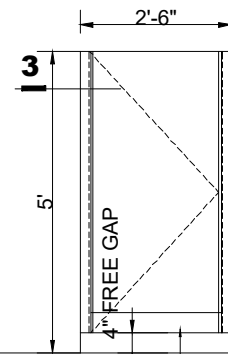
D1
SOLID CORE FLUSH DOOR
WITH DEODAR PLY BOTH SIDE
(POLISHED)



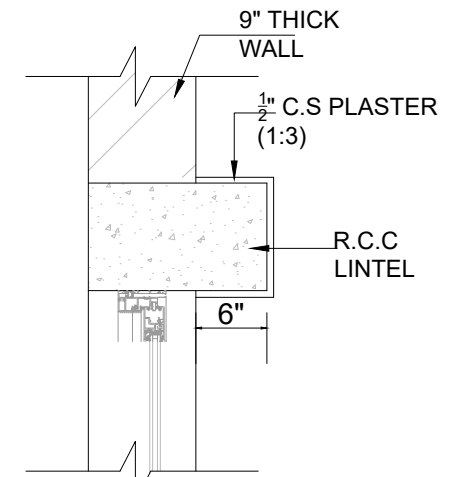
D2
SOLID CORE FLUSH DOOR
WITH DEODAR PLY OUTSIDE
(POLISHED)
INSIDE (ENAMEL PAINTED)



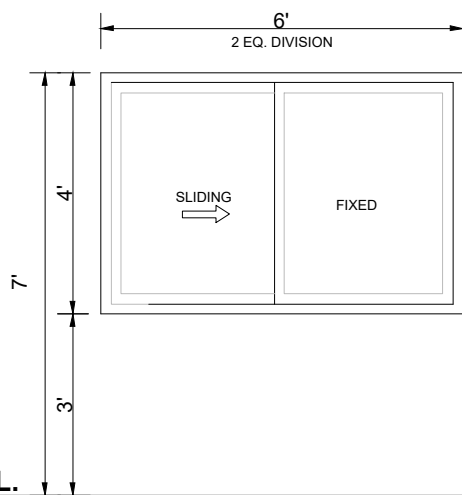
D3
SOLID CORE FLUSH DOOR
WITH DEODAR PLY OUTSIDE
(POLISHED)
INSIDE (ENAMEL PAINTED)



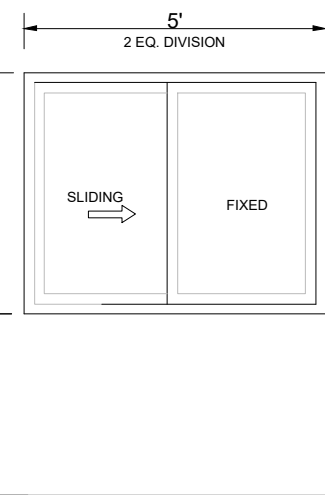
D4
SOLID CORE FLUSH DOOR
FORMICA PRESSED ON BOTH SIDES
OVER COMMERCIAL PLY.



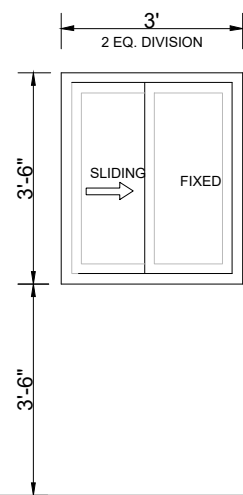
DETAIL A



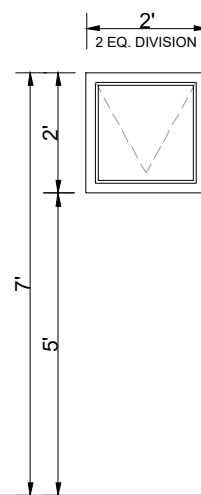
W 1
ALUMINUM GLAZED WINDOW



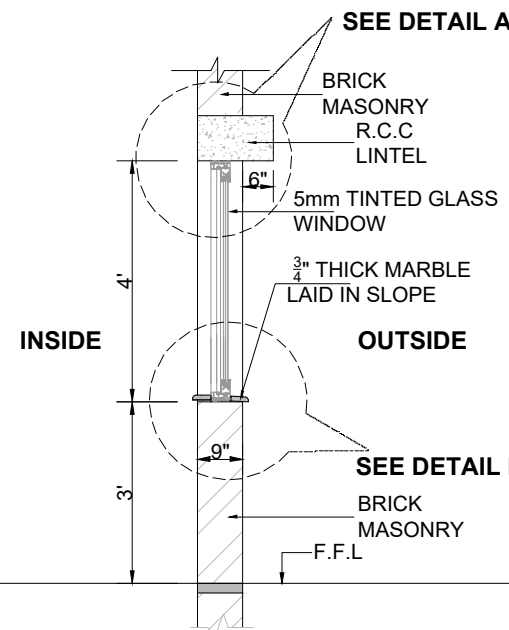
W 2
ALUMINUM GLAZED WINDOW



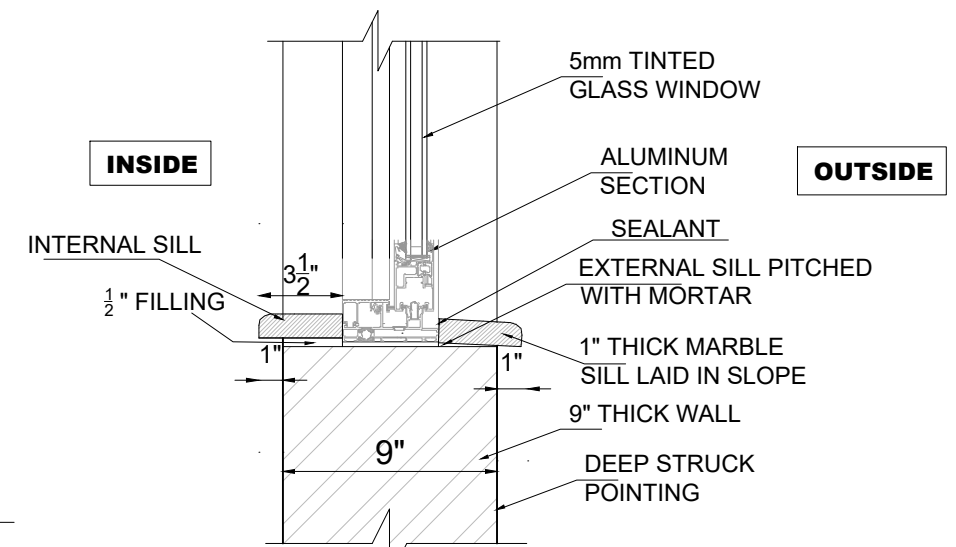
W 3
ALUMINUM GLAZED WINDOW OPENABLE VENTILATOR



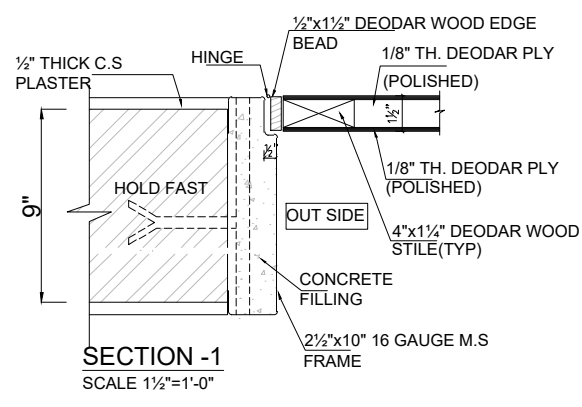
V1
ALUMINUM GLAZED WINDOW



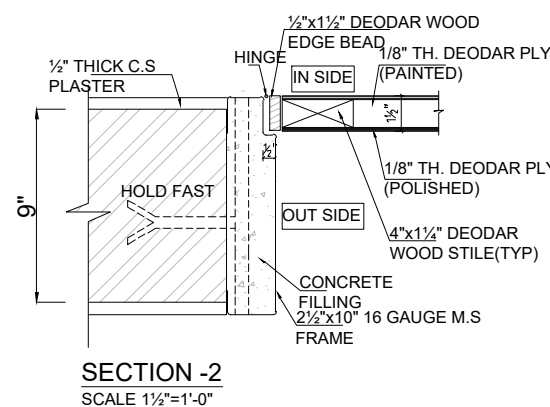
TYPICAL DETAIL FOR WINDOW SILL



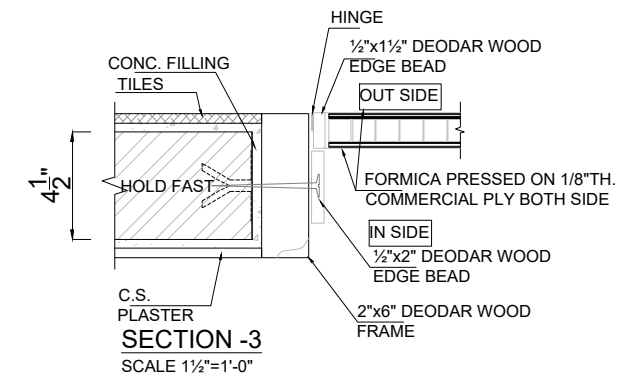
DETAIL B



SECTION -1
SCALE 1 1/2"=1'-0"



SECTION -2
SCALE 1 1/2"=1'-0"



SECTION -3
SCALE 1 1/2"=1'-0"

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

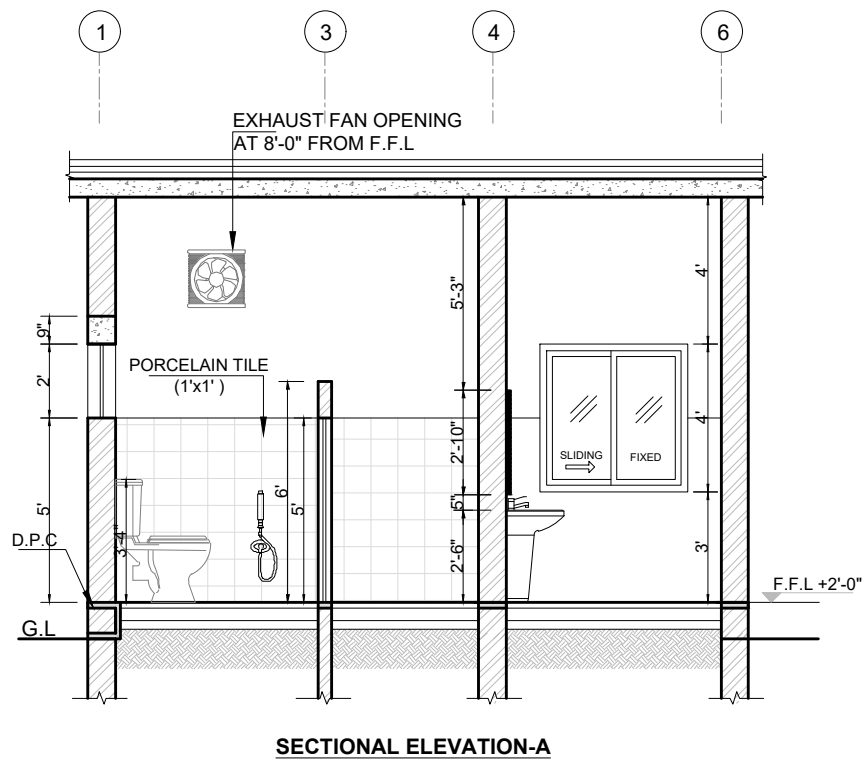
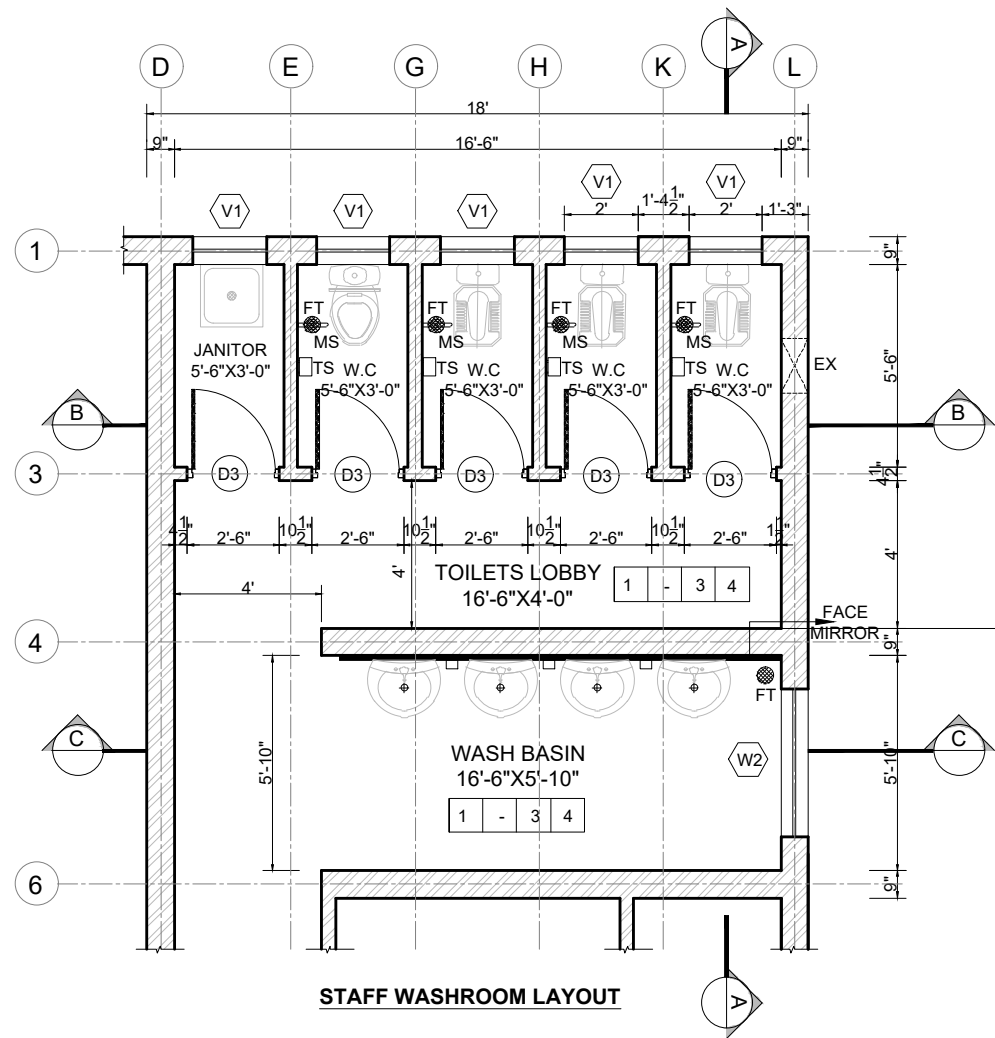
JERS CONSULTANCY (PVT) LTD
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 Fax: +92 42 35113125
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 224

DRAWING TITLE:
DOOR & WINDOW DETAIL ADMINISTRATIVE BLOCK

REV.	DATE	DESCRIPTION

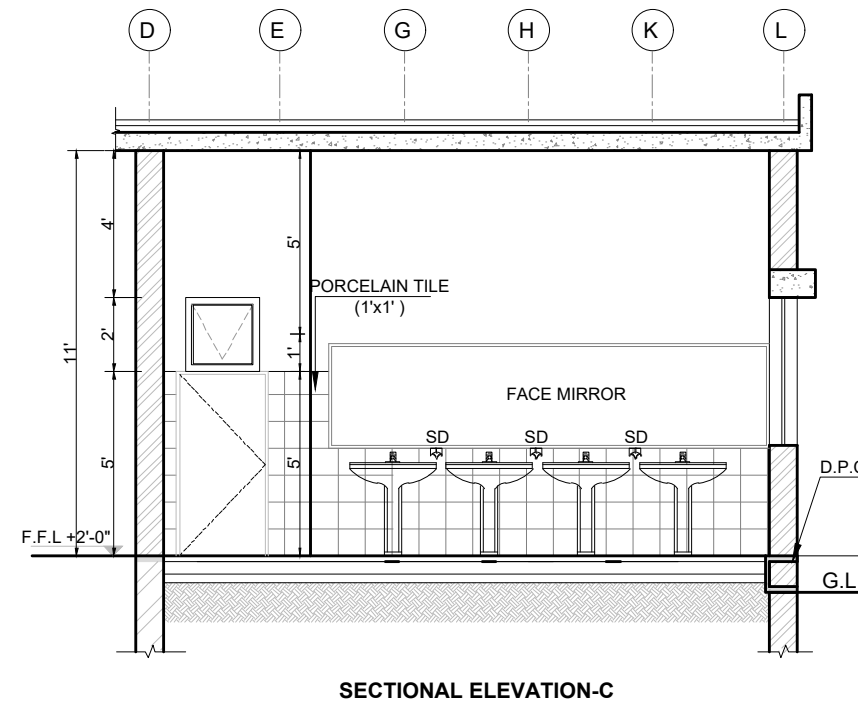
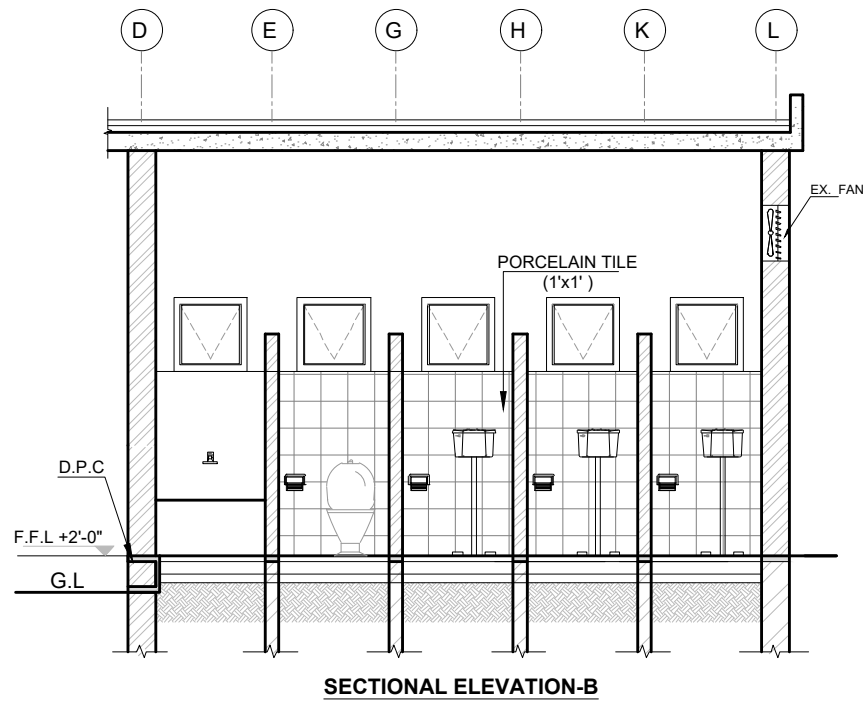
DRAWN BY: MUNIR	DRAWING NO: AR-09
CHECKED BY: M.HASEEB	SCALE: UNIT=FEET NTS
DATE: FEB,2023	SHEET: 1 OF 1 JOB NO: 488-01



PAINT OVER 1/2" C.S. PLASTER

LEGEND:-

- 1. FLOOR
- 2. DADOO UPTO 5'-0"
- 3. WALL
- 4. CEILING



LEGEND:-

- 1. FLOOR TRAP FT
- 2. MUSLIM SHOWER MS
- 3. TISSUE HOLDER TS
- 4. SOAP DISPENSER SD

NOTE

- F.F.L. OF TOILET SHOULD BE DEPRESSED 1/2" FROM THE F.F.L. OF ROOM AREA.
- ALL THE PIPE ARE SUSPENDED ABOVE FALSE CEILING

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

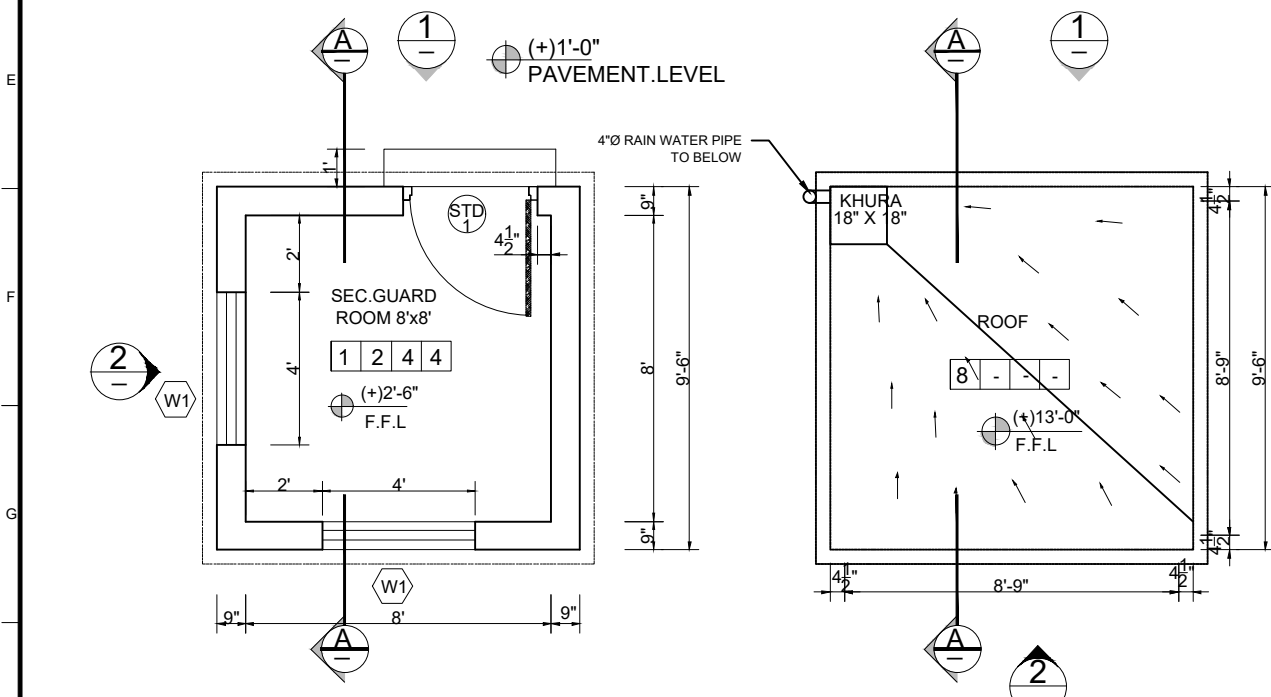
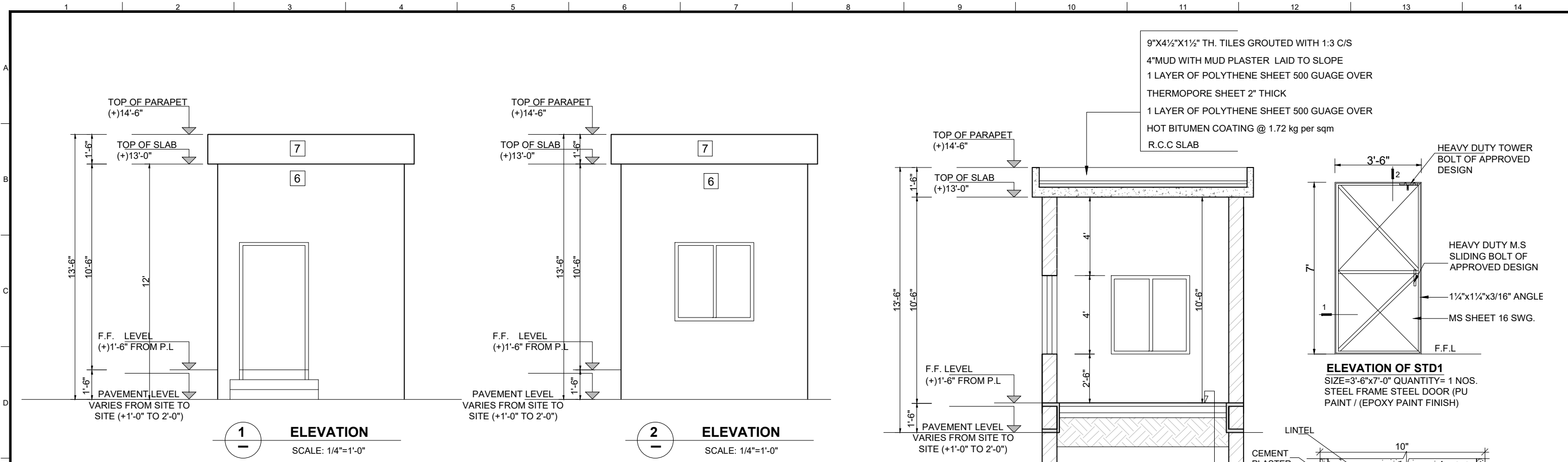
CONSULTANTS:
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 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 225

DRAWING TITLE:
STAFF WASHROOM DETAIL
ADMINISTRATIVE BLOCK

REV.	DATE	DESCRIPTION

DRAWN BY: MUNIR	DRAWING NO: AR-10
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01



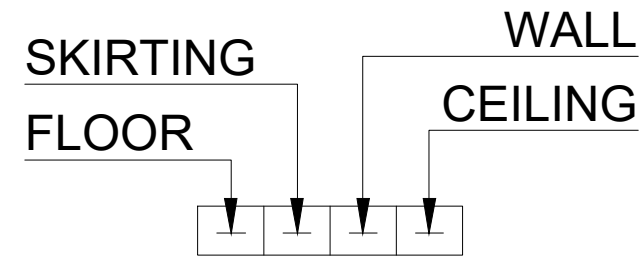
- SCHEDULE OF INTERNAL FINISHES**
- LEGEND**
- SKIRTING
 - FLOOR
 - WALL
 - CEILING
- 1 PORCELAIN TILES OF APPROVED SIZE PATTERN AND COLOR
 - 2 4" HIGH PORCELAIN TILES SKIRTING
 - 3 PORCELAIN TILES OF (APPROVED MAKE & SHADE) 5'-0" HIGH FOR BATH ROOMS WITH DISTEMPER (OF APPROVED MAKE & SHADE) ABOVE UPTO CEILING
 - 4 DISTEMPER ON C.S PLASTER (APPROVED MAKE & SHADE)
 - 5 P.C.C TUFF PAVERS 80mm THICK HAVING 7000 PSI GRADING STRENGTH OVER 2" THICK SAND, 4" AGGREGATE BASE COURSE, AND 4" SUB-BASE COURSE

- SCHEDULE OF EXTERNAL FINISHES**
- 6 DEEP STRUCK POINTING (1:2)
 - 7 CEMENT /SAND PLASTER (1:3)
 - 8 9"X4½"X1½" THICK ROOF TILES

PROVIDING AND FIXING 2" WIDE MS/ GI CHOWKAT SINGEL/DOUBLE REBATE MADE OF 16 SWG MS SHEET PRESSED/WELDED / SUPPORTED WITH MS FLAT 1½"X1/8" I/C 6" LONG MS FLAT 1½" HOLD FASTS (6-NOS) WEDWD/SCREWED, PUNCHING OF LOCK HOLE COVERED WITH MS BOX, COATING WITH ANTIRUST PAINT INCLUDING FILLING WITH CEMENT SAND MORTAR (1:8) AND EMBEDDING HOLD FAST INCEMENT (1:2:4), COMPLETE IN ALL RESPECT AS APPROVED AND DIRECTED BY ENGINEER INCHARGE.

SCHEDULE OF INTERNAL FINISHES

LEGEND



- ① PORCELAIN TILES OF APPROVED SIZE PATTERN AND COLOR
- ② 4" HIGH PORCELAIN TILES SKIRTING
- ③ PORCELAIN TILES OF (APPROVED MAKE & SHADE) 5'-0" HIGH FOR BATH ROOMS WITH DISTEMPER (OF APPROVED MAKE & SHADE) ABOVE UPTO CEILING
- ④ DISTEMPER ON C.S PLASTER (APPROVED MAKE & SHADE)
- ⑤ P.C.C TUFF PAVERS 60mm THICK HAVING 7000 PSI GRADING STRENGTH OVER 2" THICK SAND, 4" AGGREGATE BASE COURSE, AND 4" SUB-BASE COURSE

SCHEDULE OF EXTERNAL FINISHES

- ⑥ DEEP STRUCK POINTING (1:2)
- ⑦ CEMENT /SAND PLASTER (1:3)
- ⑧ 9"X4½"X1½" THICK ROOF TILES

CLIENT:

 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

CONSULTANTS:



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 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
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 Web: http://www.jers.com.pk

PROJECT:

PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 227

DRAWING TITLE:

LEGEND & NOTES

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

MUNIR

CHECKED BY:

M.HASEEB

DATE:

FEB,2023

DRAWING NO:

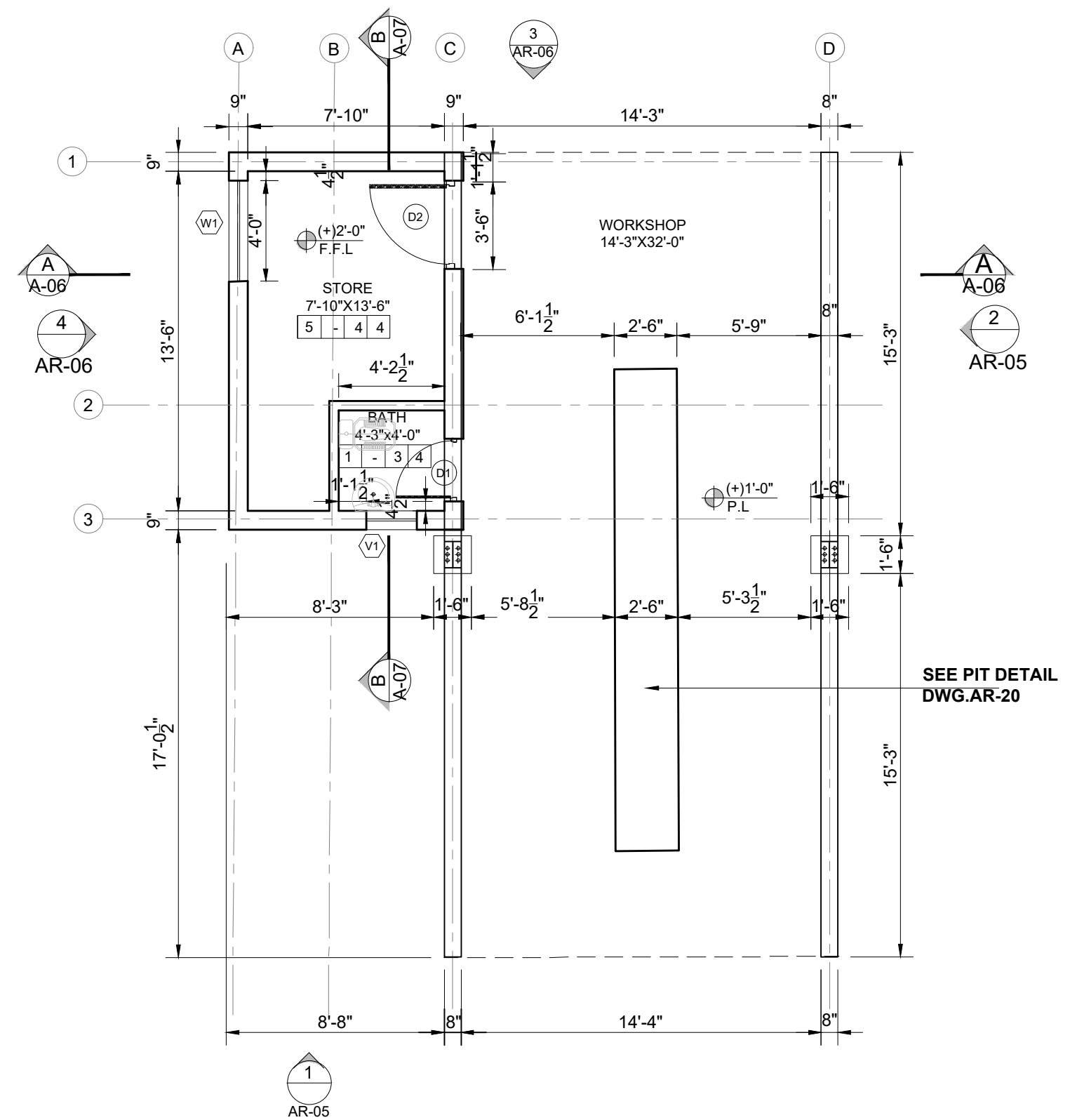
AR-12


SCALE:

UNIT=FEET
NTS

SHEET:

1 OF 1
JOB NO:
488-01



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

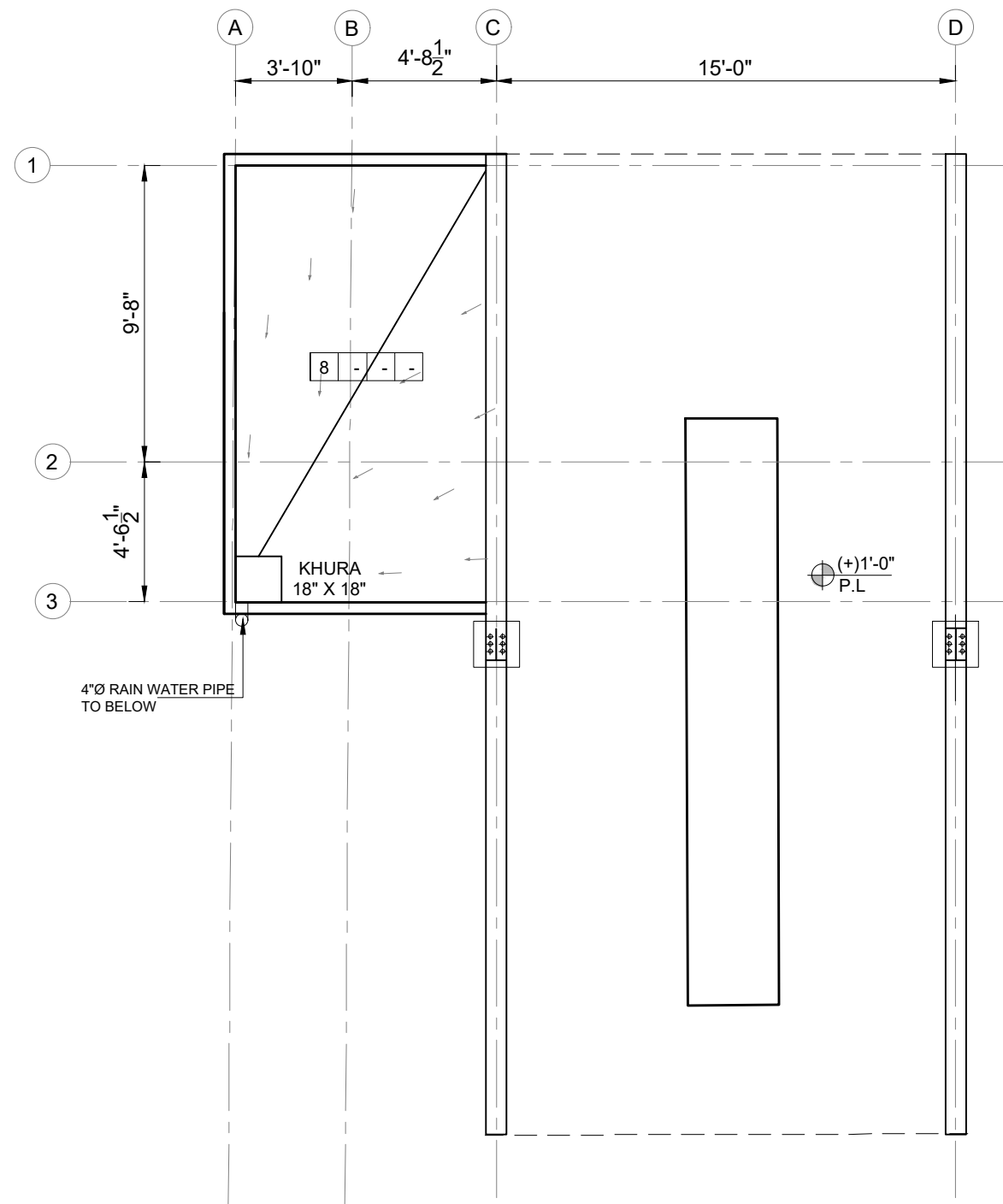
CONSULTANTS:
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 Web: http://www.jers.com.pk

PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 228

DRAWING TITLE:
**WORKSHOP
 GROUND FLOOR PLAN**

REV.	DATE	DESCRIPTION

DRAWN BY: MUNIR	DRAWING NO: AR-13
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

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 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

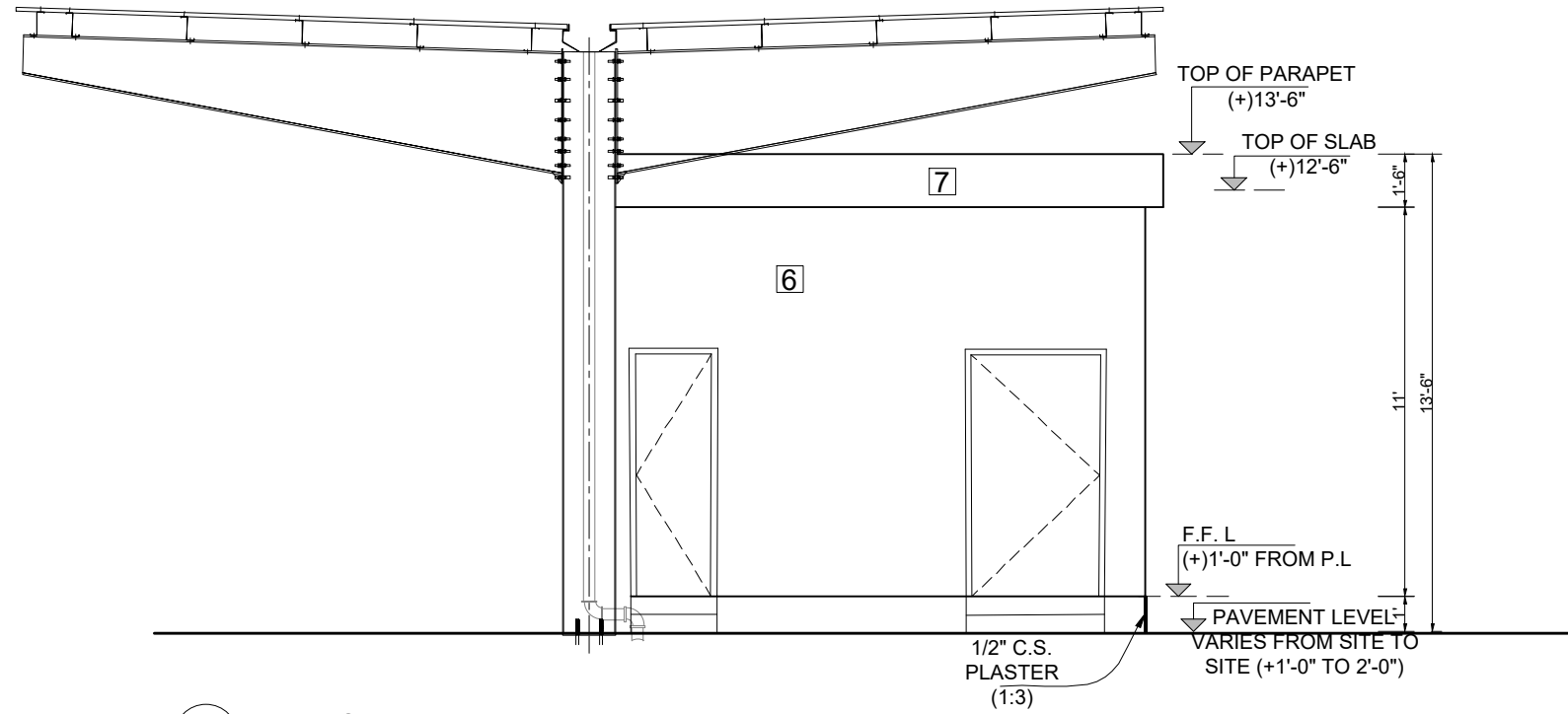
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 229

DRAWING TITLE:
**WORKSHOP
 ROOF LAYOUT PLAN**

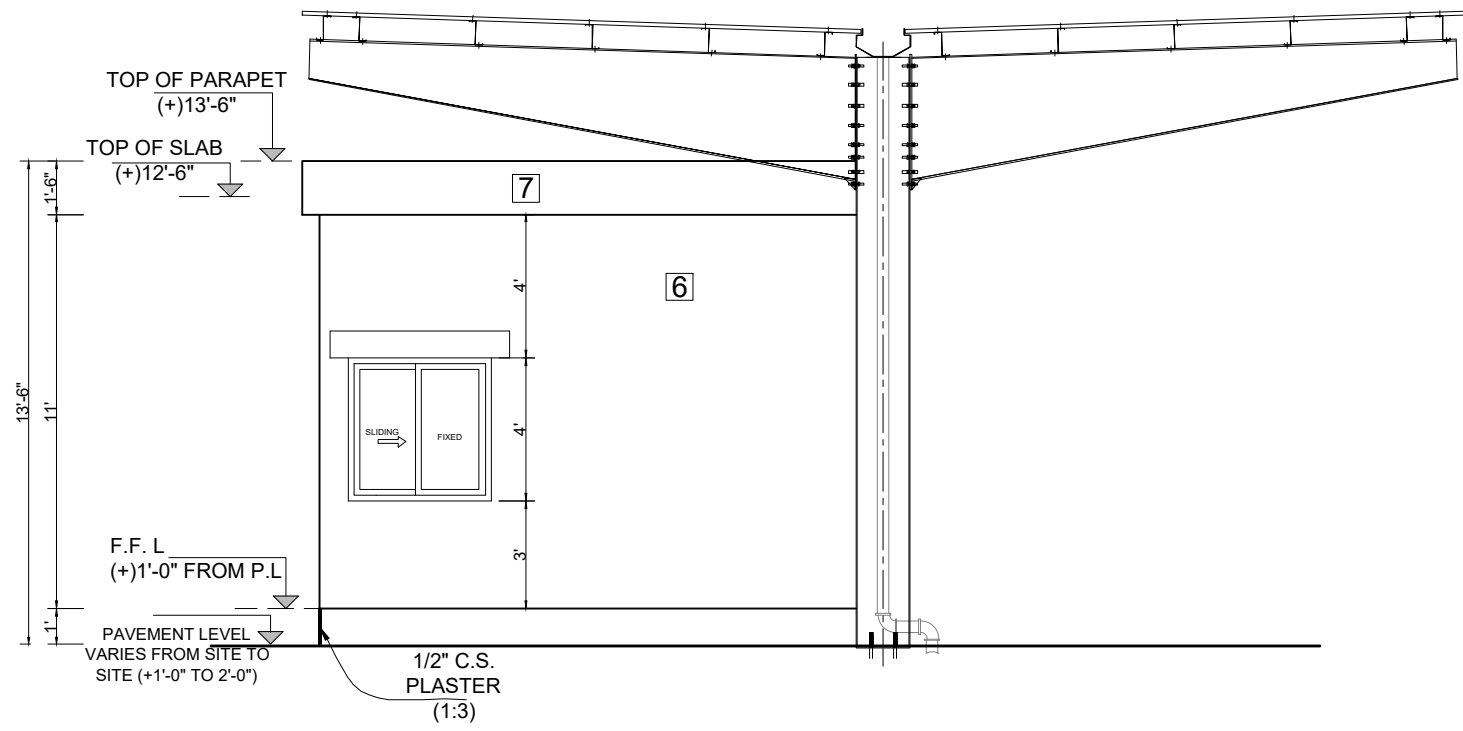
REV.	DATE	DESCRIPTION
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DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB,2023


DRAWING NO:
AR-14
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



2 ELEVATION
SCALE: 1/4"=1'-0"



4 ELEVATION
SCALE: 1/4"=1'-0"

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

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 Web: http://www.jers.com.pk

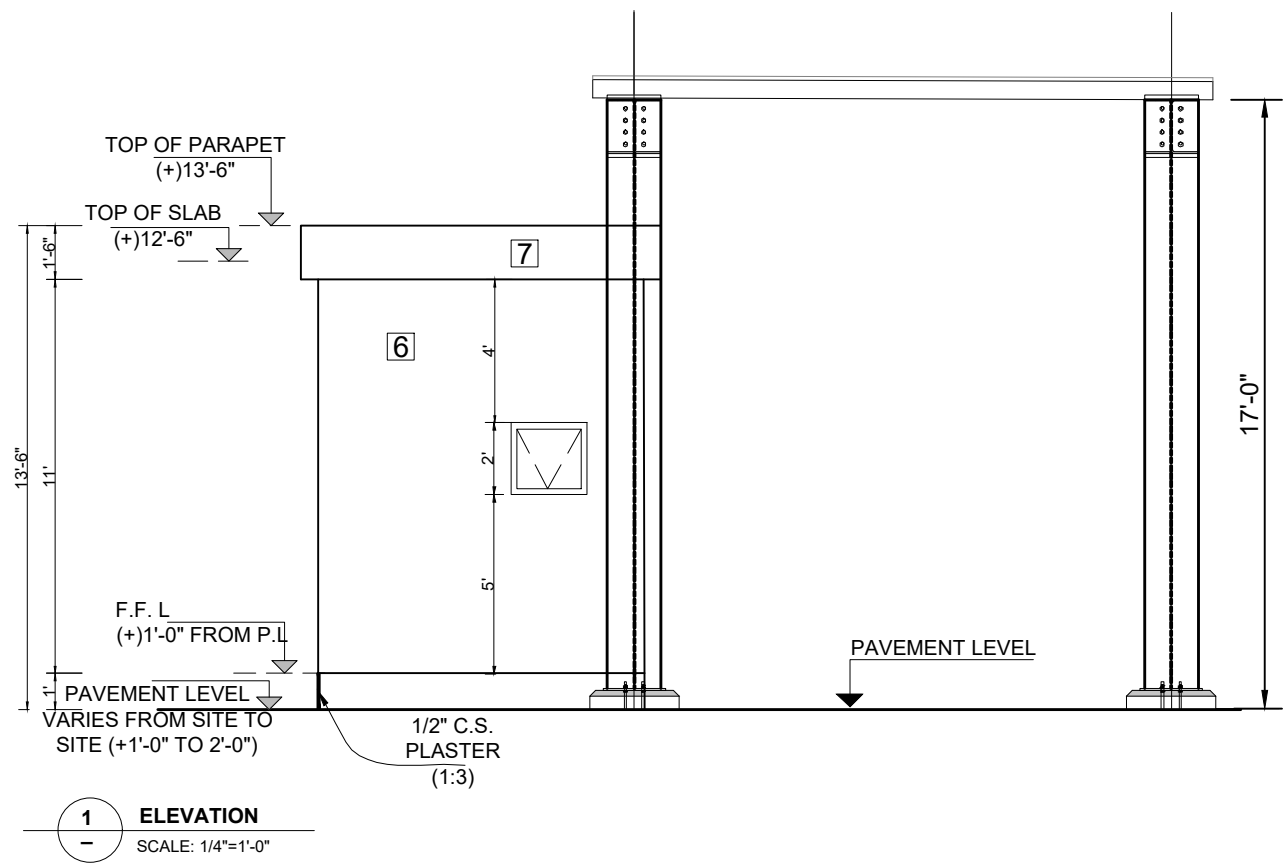
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 230

DRAWING TITLE:
WORKSHOP ELEVATION 2 & 4

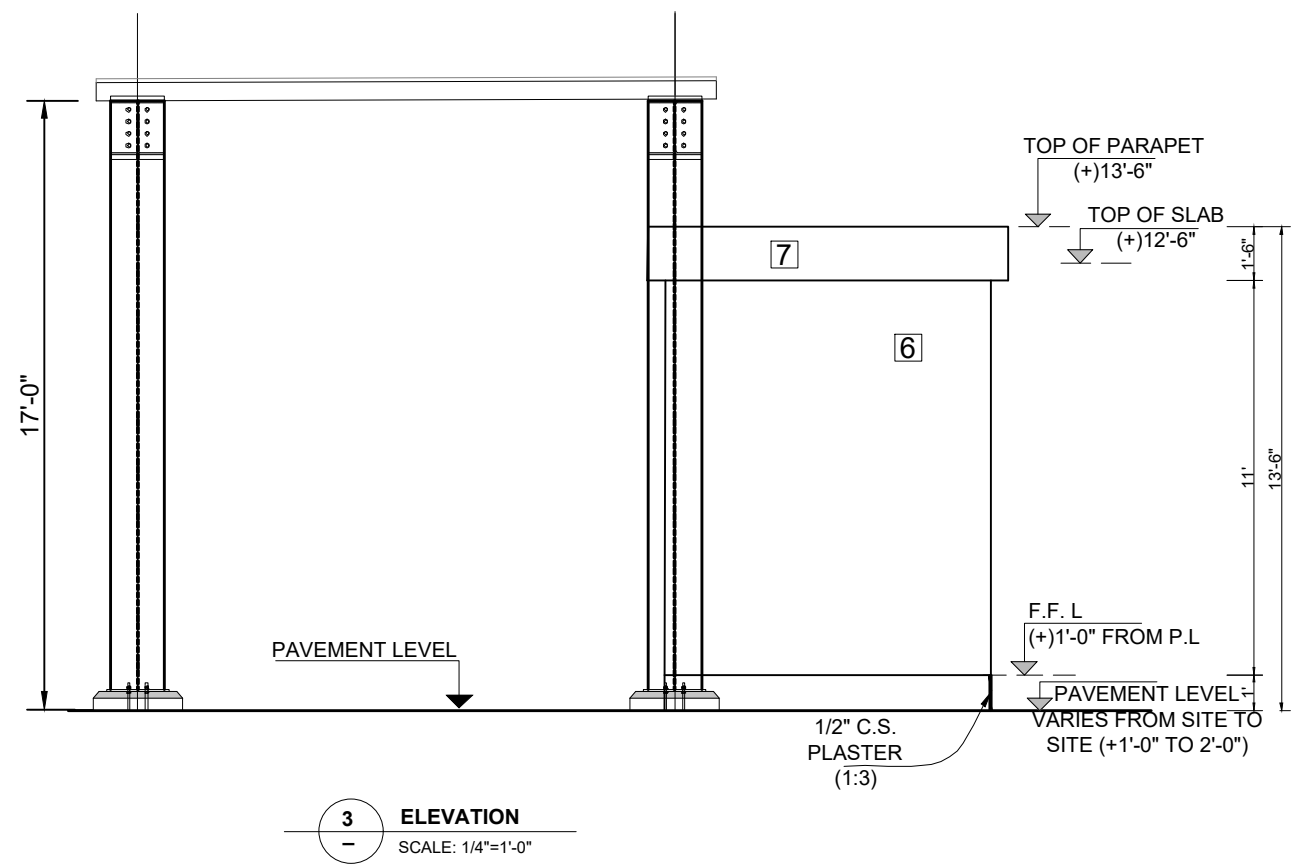
REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB,2023

DRAWING NO:
AR-15
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



1 ELEVATION
SCALE: 1/4"=1'-0"



3 ELEVATION
SCALE: 1/4"=1'-0"

CLIENT:
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 Web: http://www.jers.com.pk

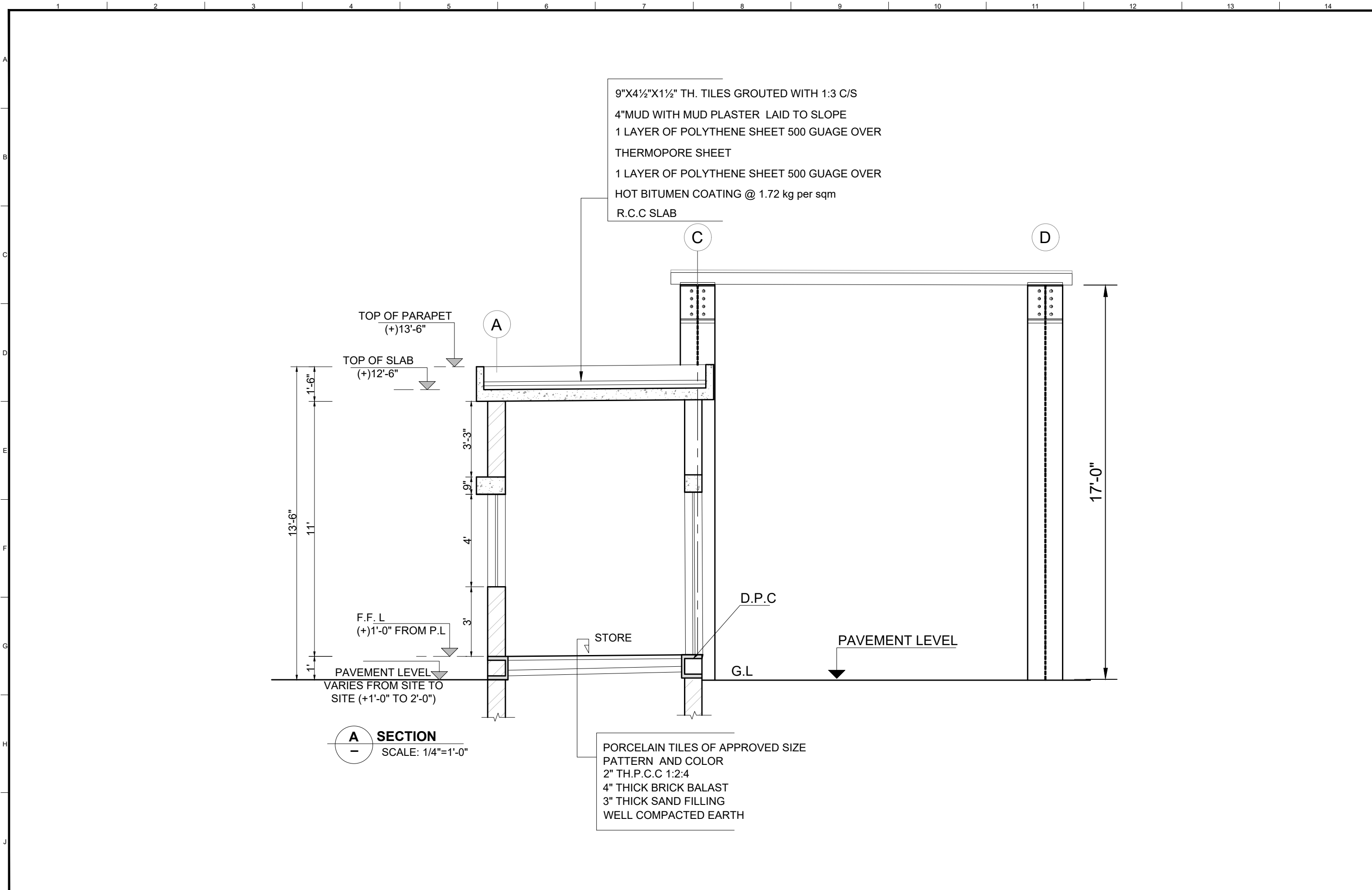
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 231


DRAWING TITLE:
**WORKSHOP
 ELEVATION 1 & 3**

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB,2023

DRAWING NO:
AR-16
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

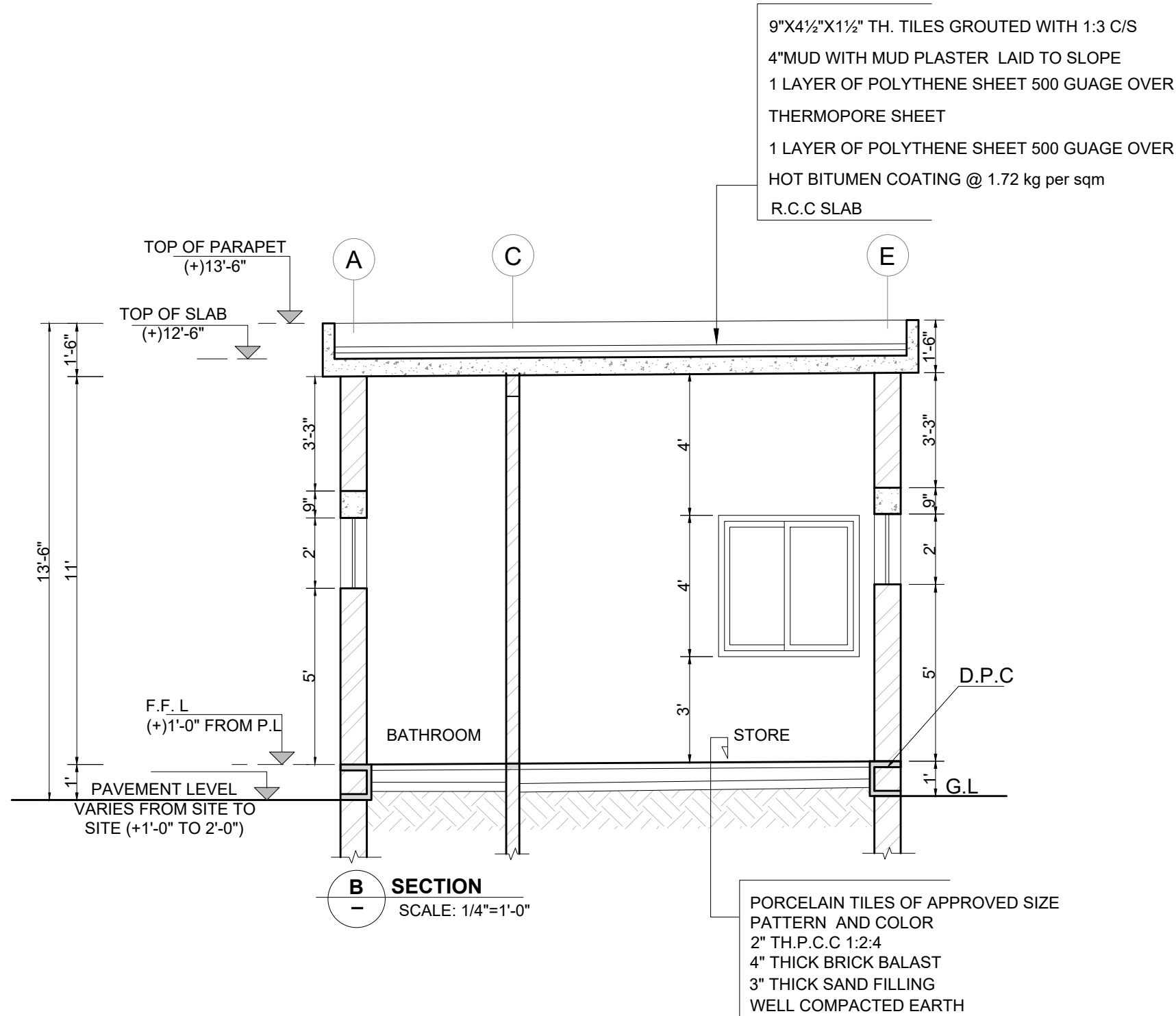
CONSULTANTS:
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 232


DRAWING TITLE:
WORKSHOP SECTION A

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-

DRAWN BY: MUNIR	DRAWING NO: AR-17
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01



B SECTION
SCALE: 1/4"=1'-0"

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

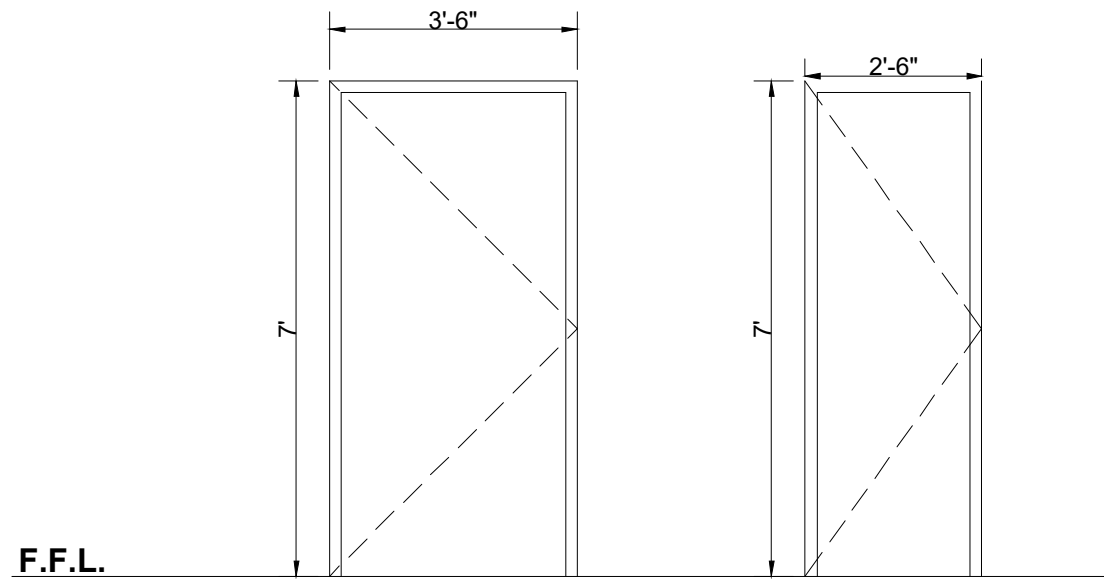
CONSULTANTS:
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 233

DRAWING TITLE:
WORKSHOP SECTION B

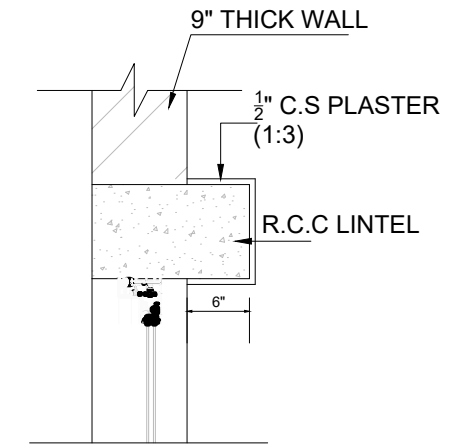
REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY: MUNIR	DRAWING NO: AR-18
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01

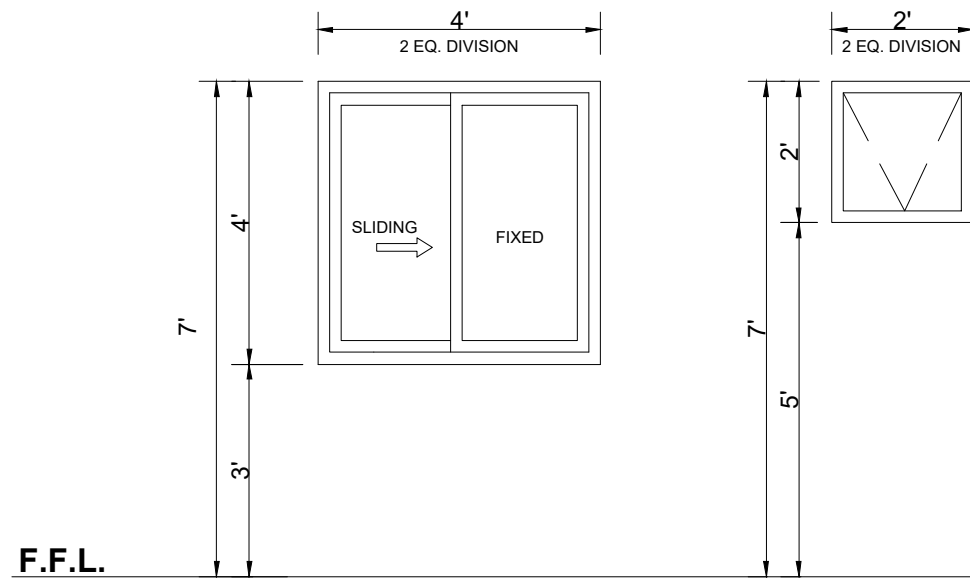


D1
SOLID CORE FLUSH DOOR
WITH DEODAR PLY BOTH SIDE
(POLISHED)

D2
SOLID CORE FLUSH DOOR
WITH DEODAR PLY OUTSIDE
(POLISHED)
INSIDE (ENAMEL PAINTED)

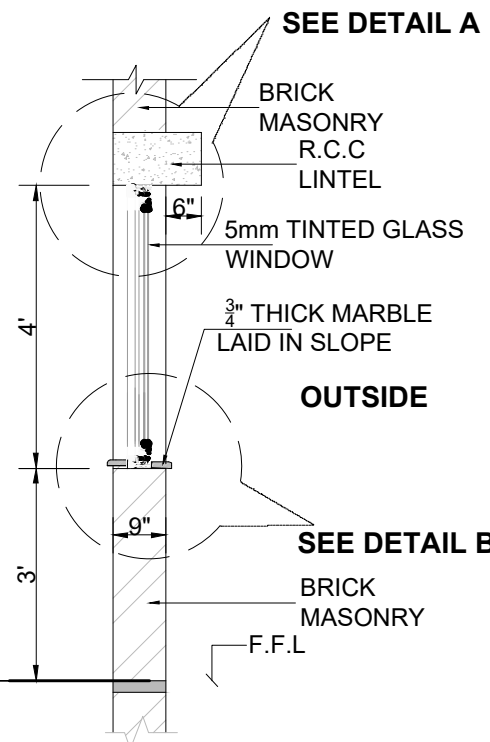


DETAIL A

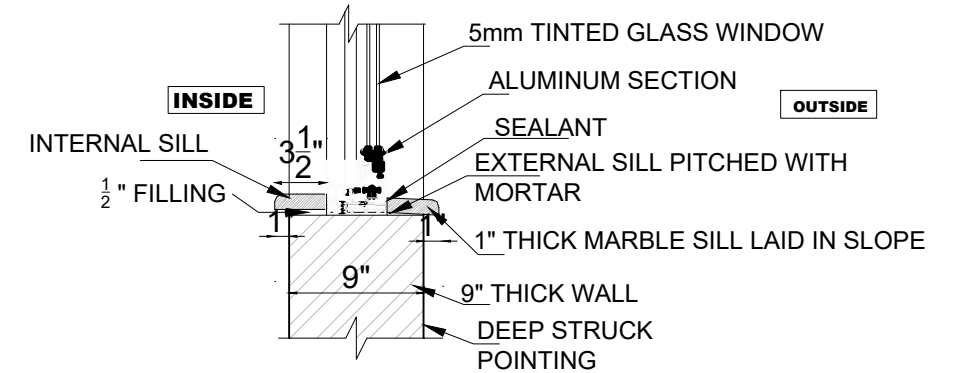


W 2
ALUMINUM GLAZED WINDOW

V1
ALUMINUM GLAZED
OPENABLE VENTILATOR



TYPICAL DETAIL FOR WINDOW SILL



DETAIL B

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

CONSULTANTS:
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 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
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 Web: http://www.jers.com.pk

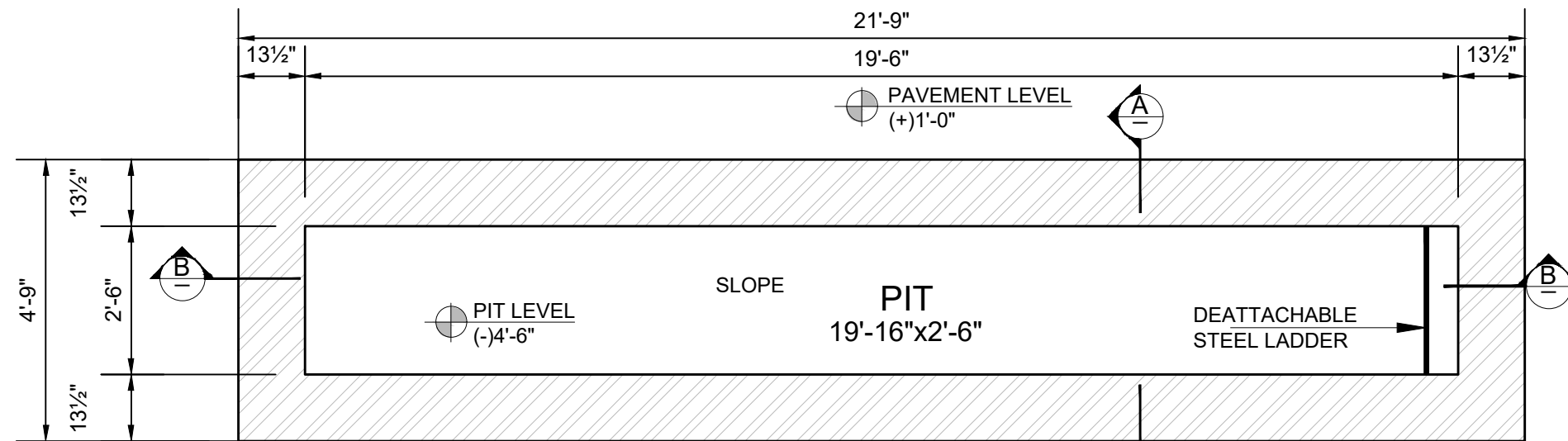
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 234

DRAWING TITLE:
WORKSHOP DOOR & WINDOW DETAILS

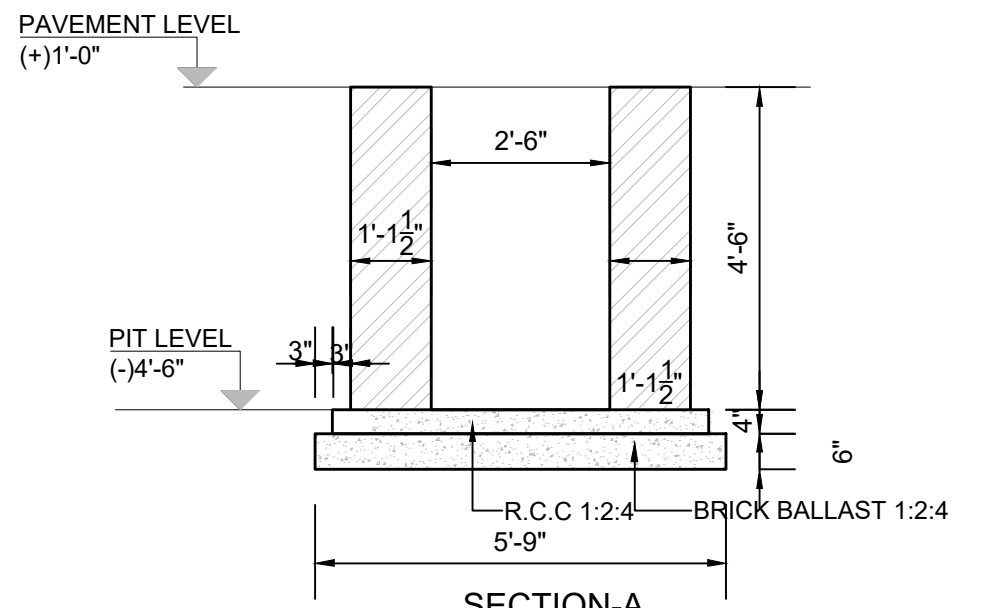
REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB,2023

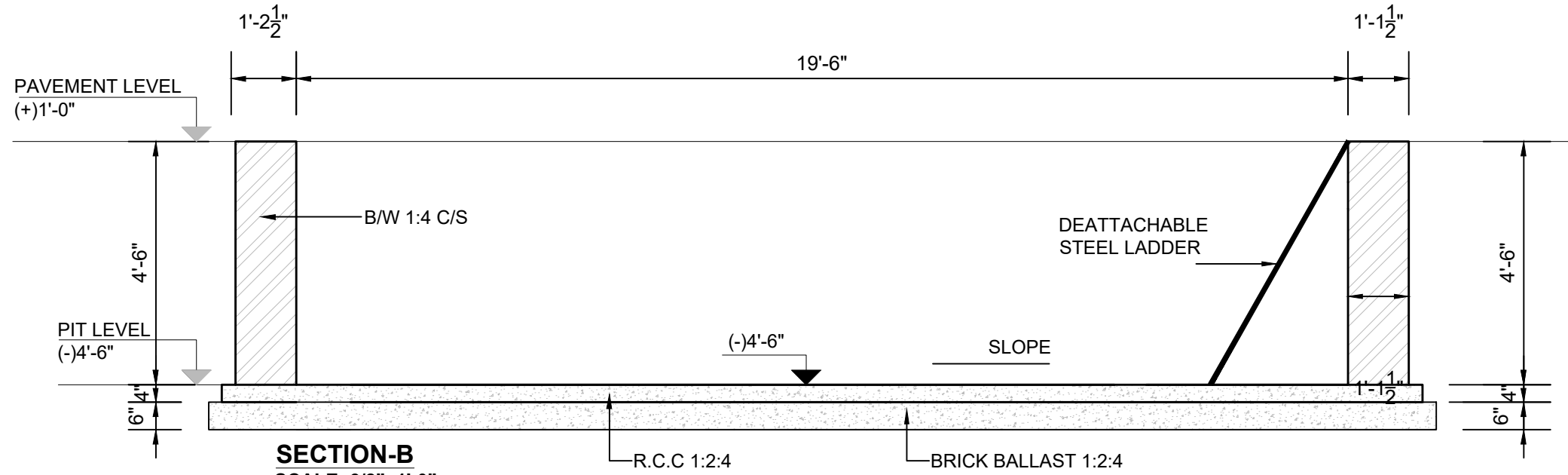
DRAWING NO:
AR-19
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



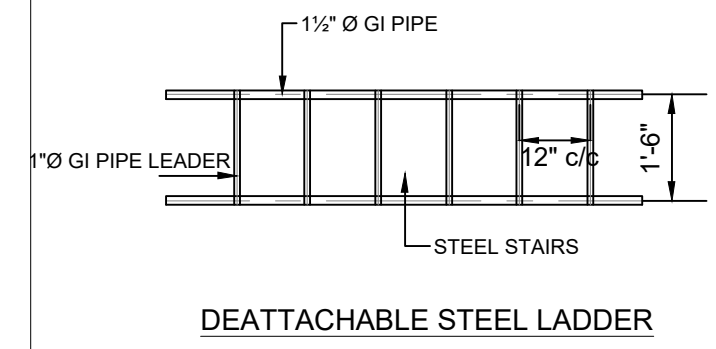
TYPICAL DETAIL OF SERVICE PIT UNDER SHED
SCALE: 3/8"=1'-0"



SECTION-A
SCALE: 3/8"=1'-0"



SECTION-B
SCALE: 3/8"=1'-0"



DEATTACHABLE STEEL LADDER

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

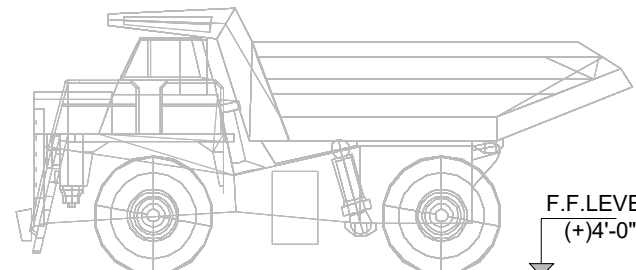
CONSULTANTS:
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 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 235

DRAWING TITLE:
WORKSHOP SERVICE PIT DETAIL

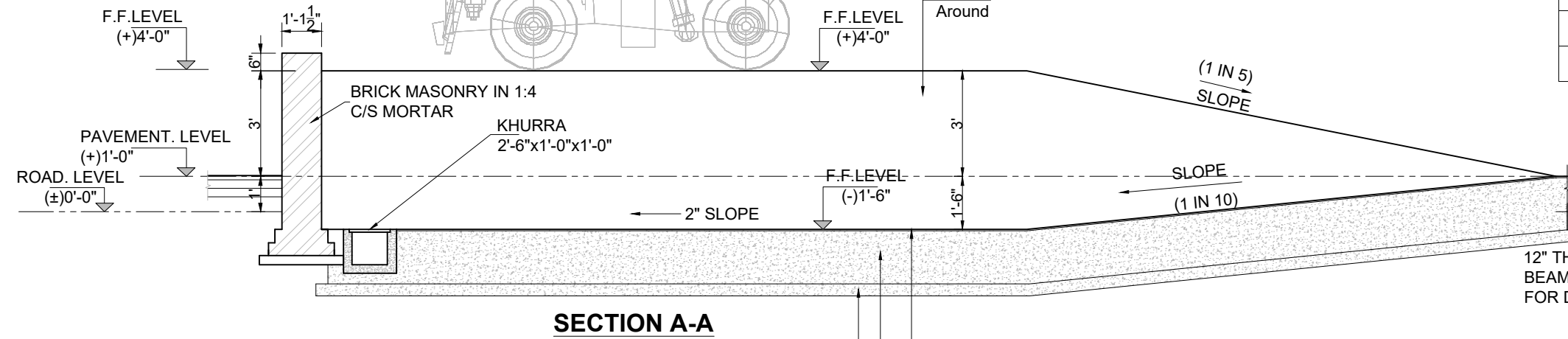
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DRAWN BY: MUNIR	DRAWING NO: AR-20
CHECKED BY: M.HASEEB	
DATE: FEB,2023	SCALE: UNIT=FEET NTS
	SHEET: 1 OF 1 JOB NO: 488-01

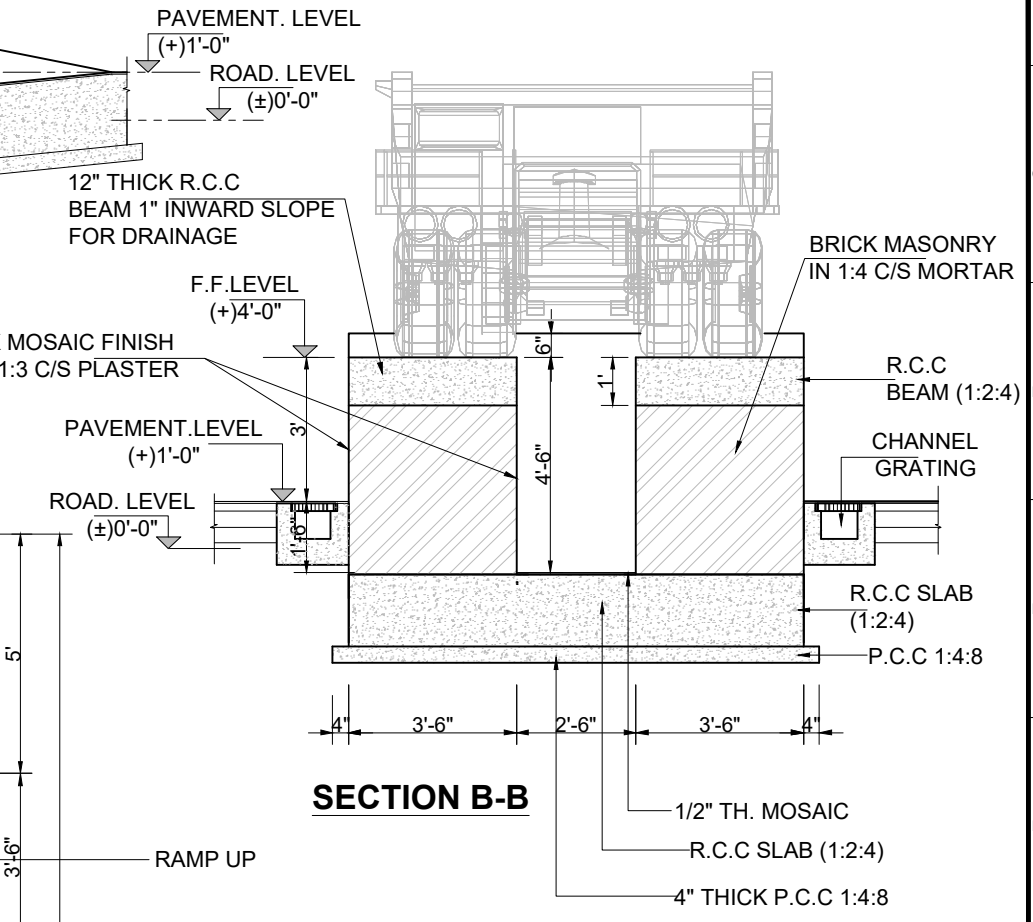


SWM VEHICLE DATA

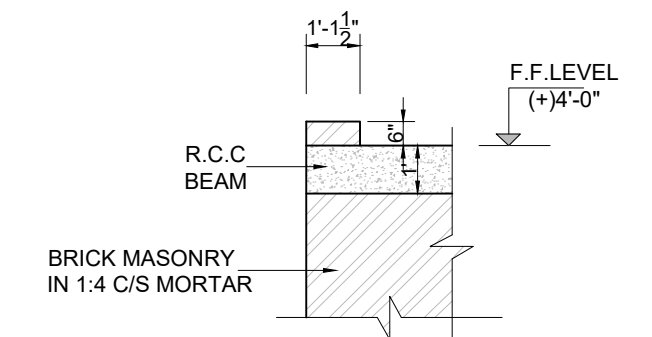
S.NO	VEHICLE TYPE	VEHICLE DIMENSION	WHEEL BASE WIDTH	WHEEL BASE LENGTH
01	TRUCK CHASIS	25'-0"x8'-0"x9'-0"	7'-0"	15'-0"
02	MINNI TIPPER	10'-6"x4'-6"x5'-5"	3'-8"	9'-6"
03	TRACTOR	12'-0"x7'-0"x8'-0"	6'-0"	7'-6"



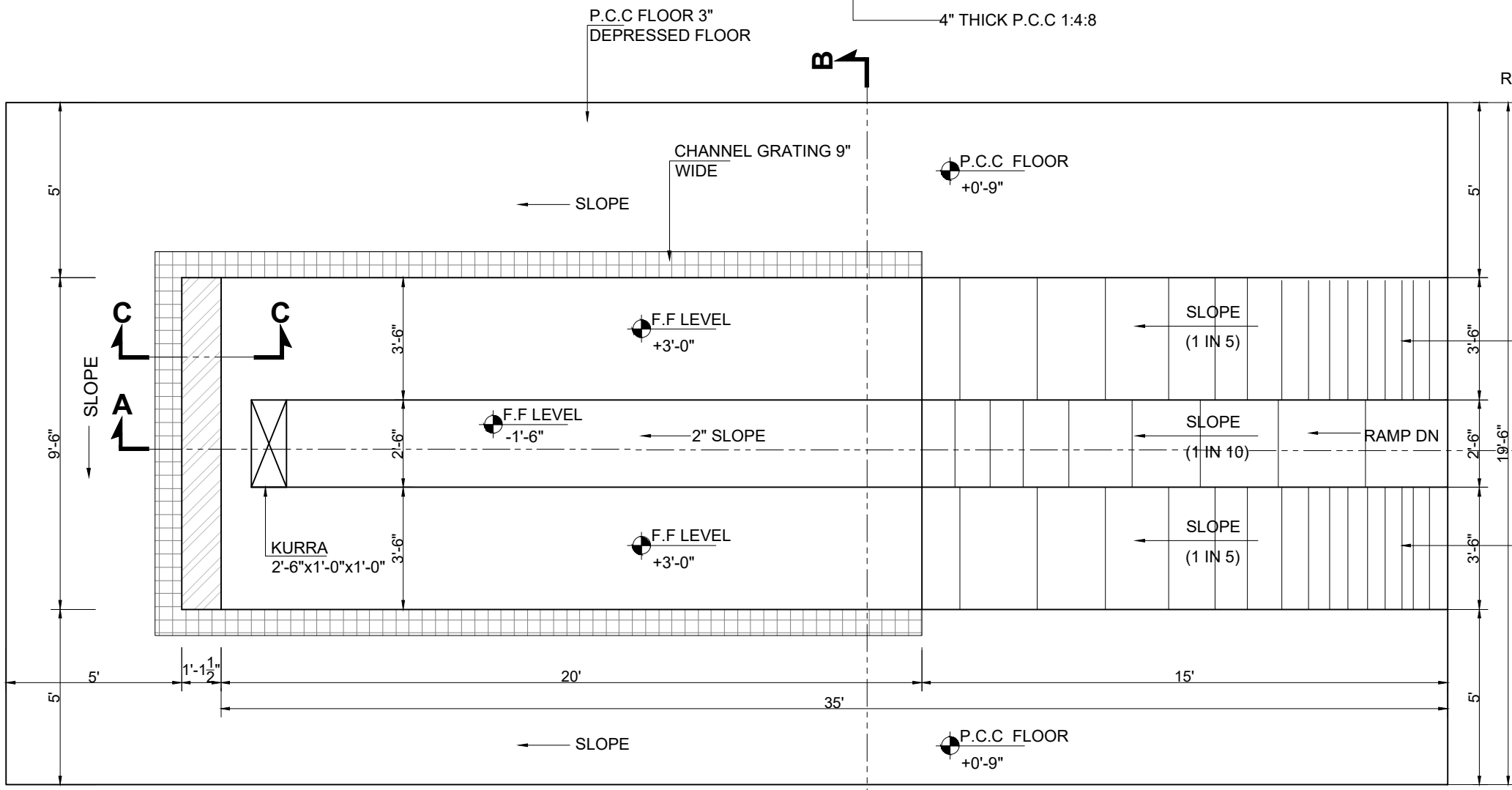
SECTION A-A



SECTION B-B



SECTION C-C



DECK PLAN

CLIENT:
PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:
JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
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PROJECT:
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 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 236

DRAWING TITLE:
OPEN SERVICE STATION DETAIL

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR

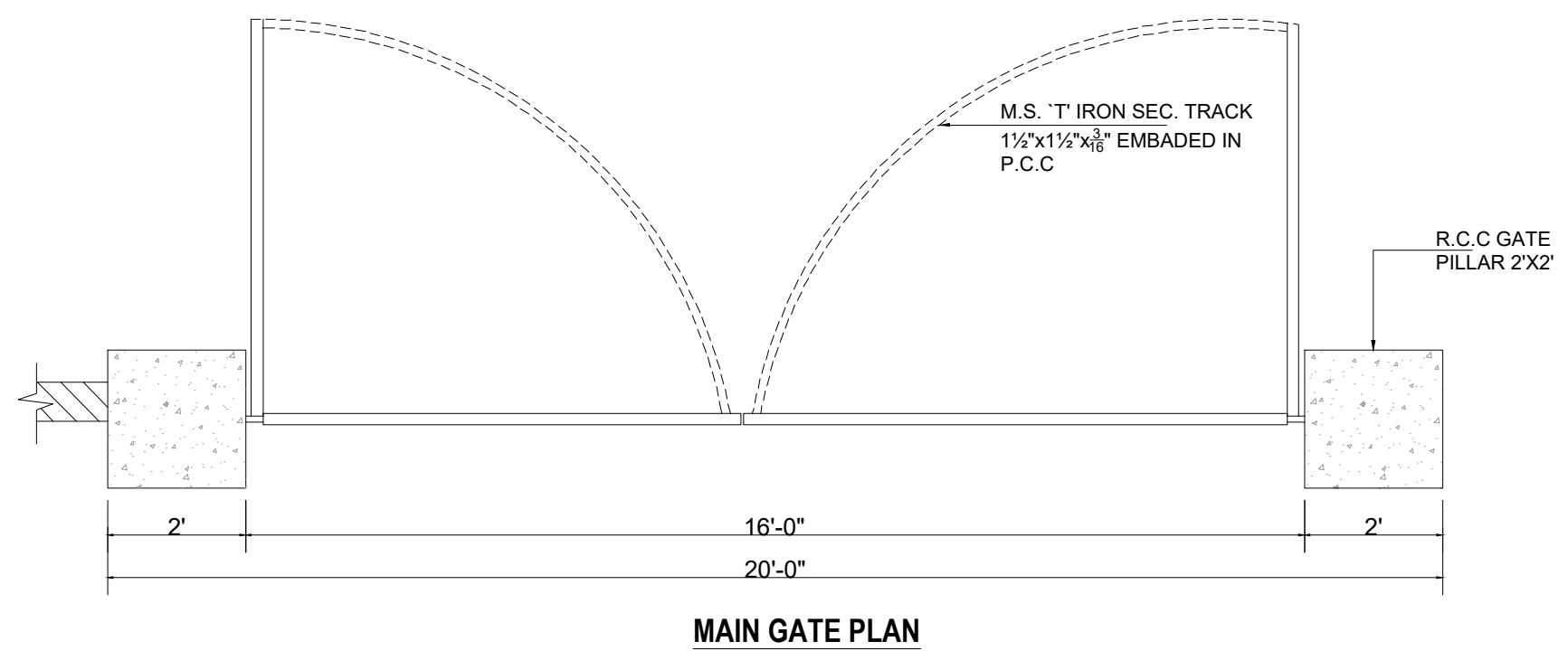
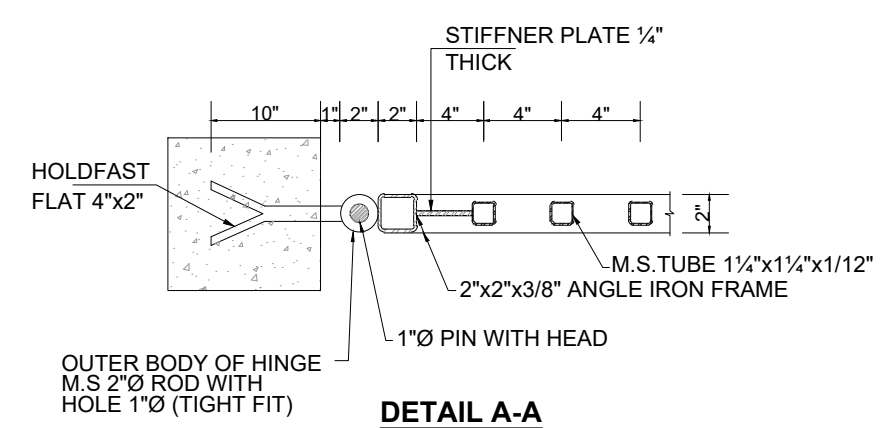
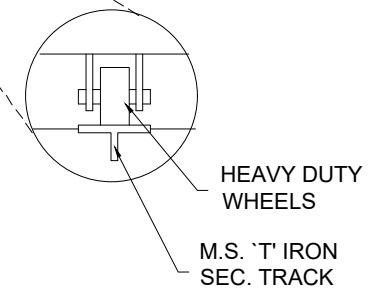
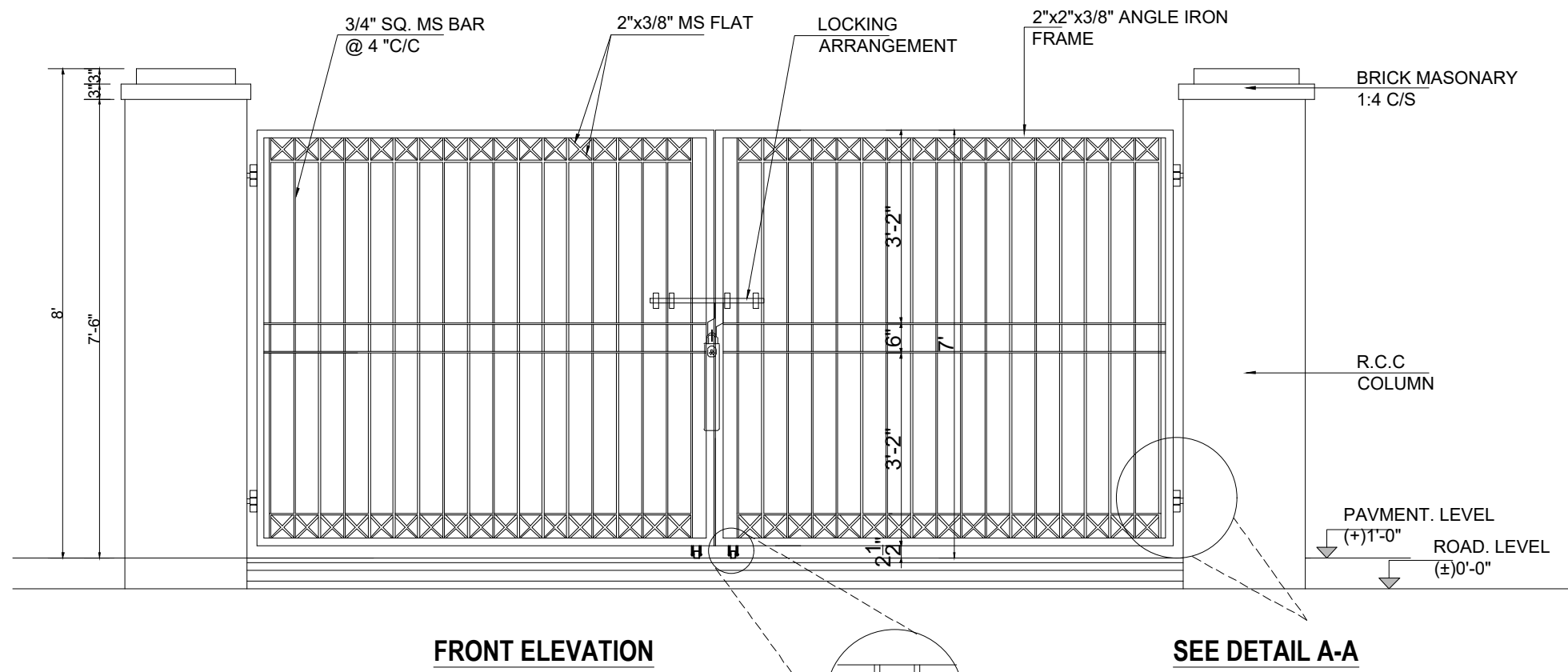
CHECKED BY:
M.HASEEB

DATE:
FEB, 2023

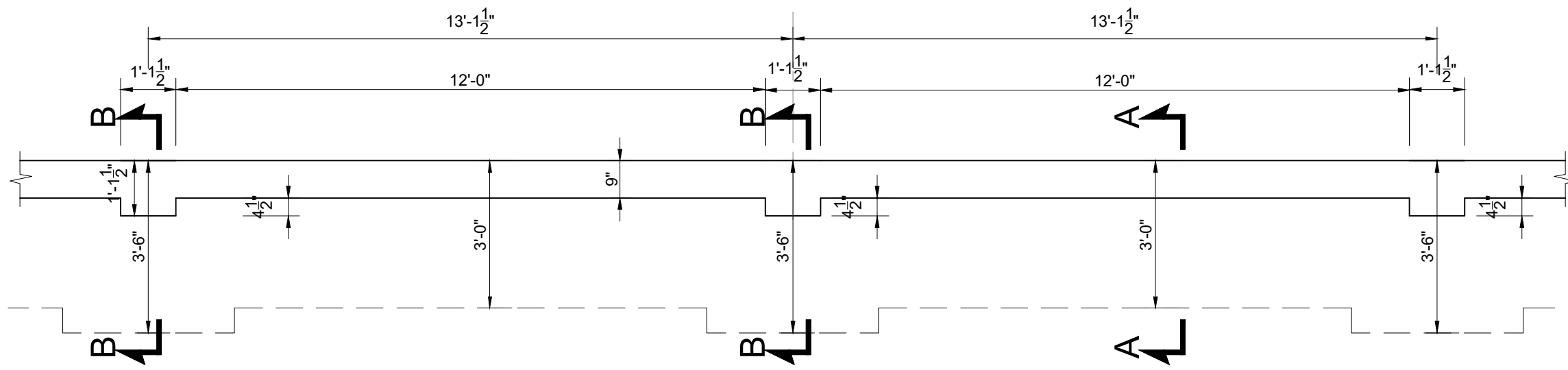
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AR-21

SCALE:
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1/4"=1'-0"

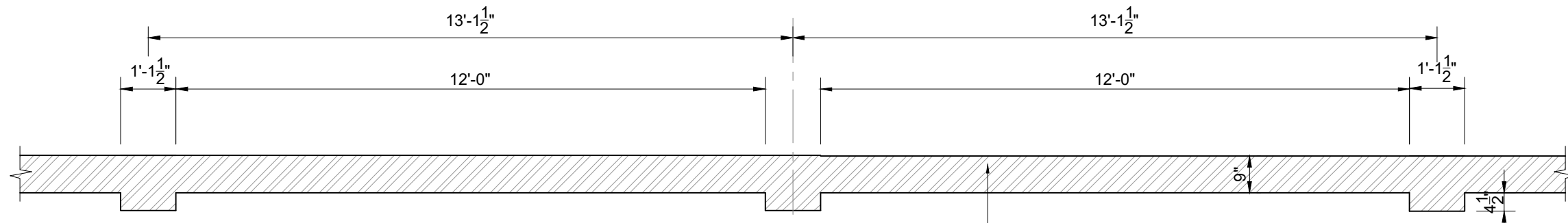
SHEET:
1 OF 1
JOB NO:
488-01



CLIENT: PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS: JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 237	DRAWING TITLE: PROPOSED MAIN GATE	DRAWN BY: MUNIR	DRAWING NO: AR-22
				CHECKED BY: M.HASEEB	
REV. DATE DESCRIPTION				DATE: FEB,2023	JOB NO: 488-01

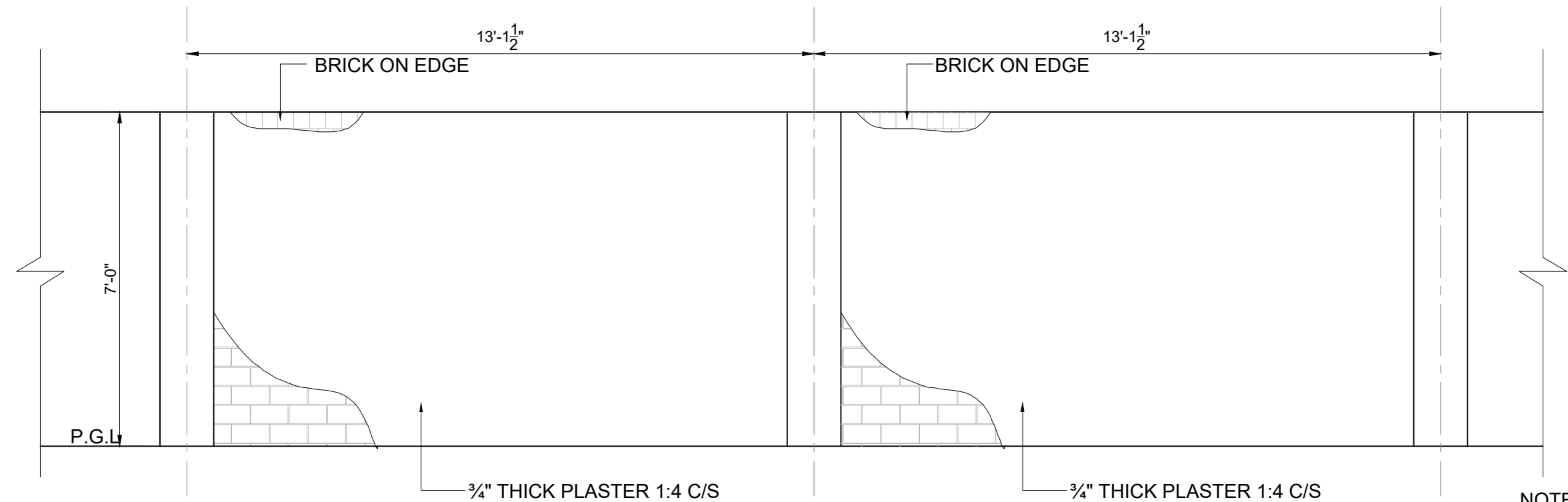


EXTERNAL BOUNDARY WALL FOOTING PLAN

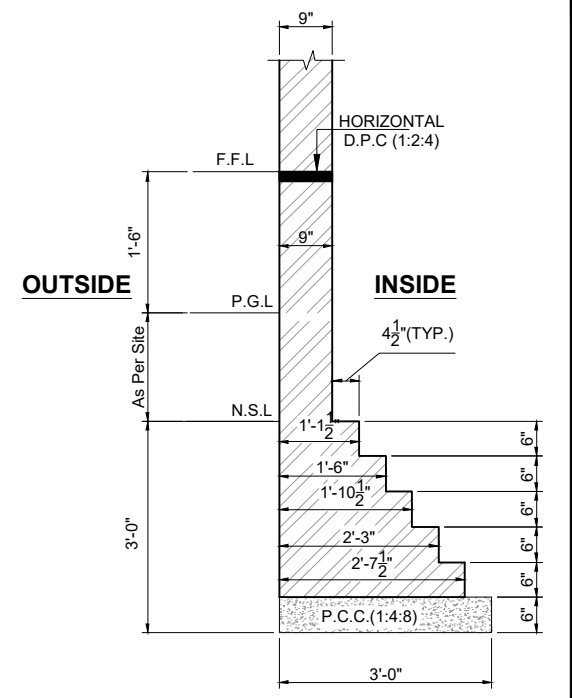


EXTERNAL BOUNDARY WALL TOP PLAN

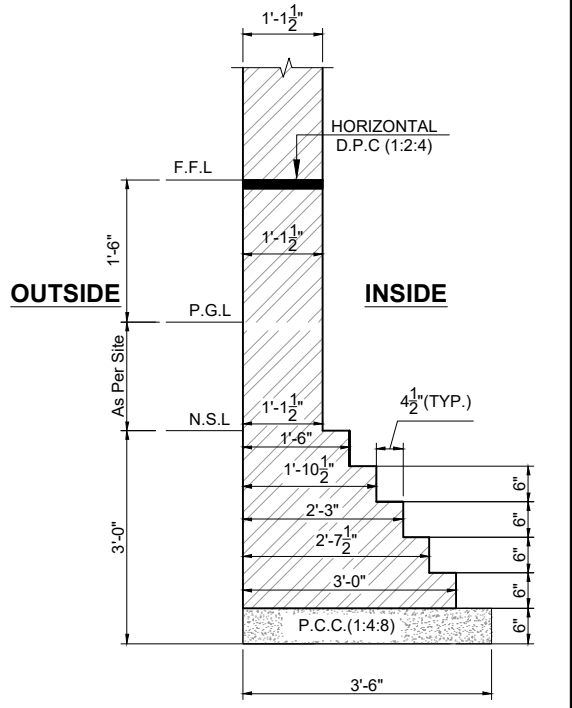
BRICK MASONRY WALL
C/S MORTAR 1:3



EXTERNAL BOUNDARY WALL ELEVATION





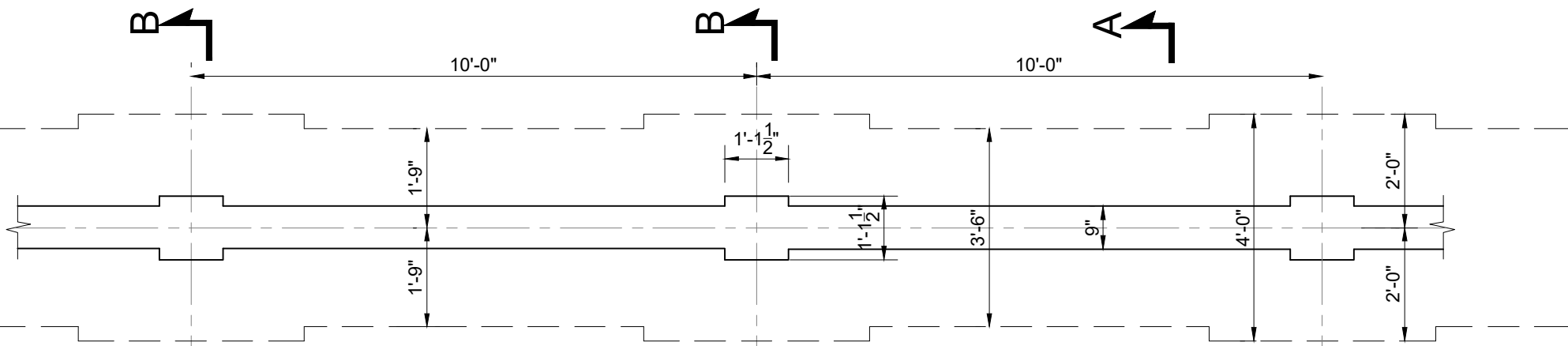
SECTION A-A
SCALE: 3/8"=1'-0"



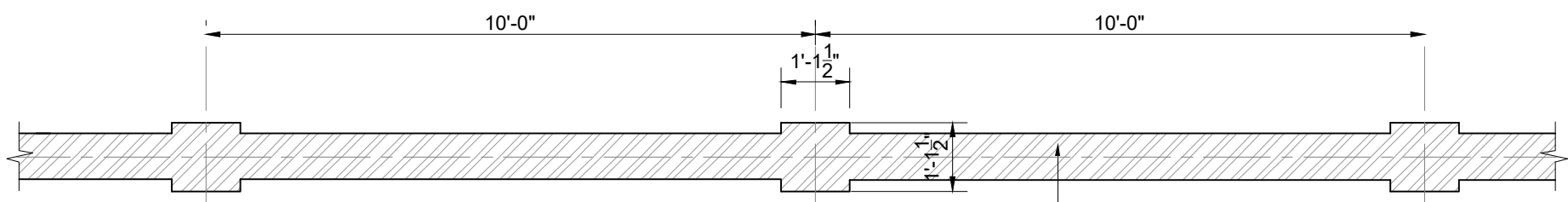
SECTION B-B
SCALE: 3/8"=1'-0"

NOTE:
PROVIDE A STEEL BAR OF LENGTH 6'-6" #3 @ 8TH COURSE OF EVERY BRICK COURSE

CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 238	DRAWING TITLE: EXTERNAL BOUNDARY WALL PLAN SECTIONAL ELEVATION DETAIL	DRAWN BY: MUNIR	DRAWING NO: AR-23
				CHECKED BY: HASEEB	
REV. DATE DESCRIPTION				DATE: FEB,2023	JOB NO: 488-01

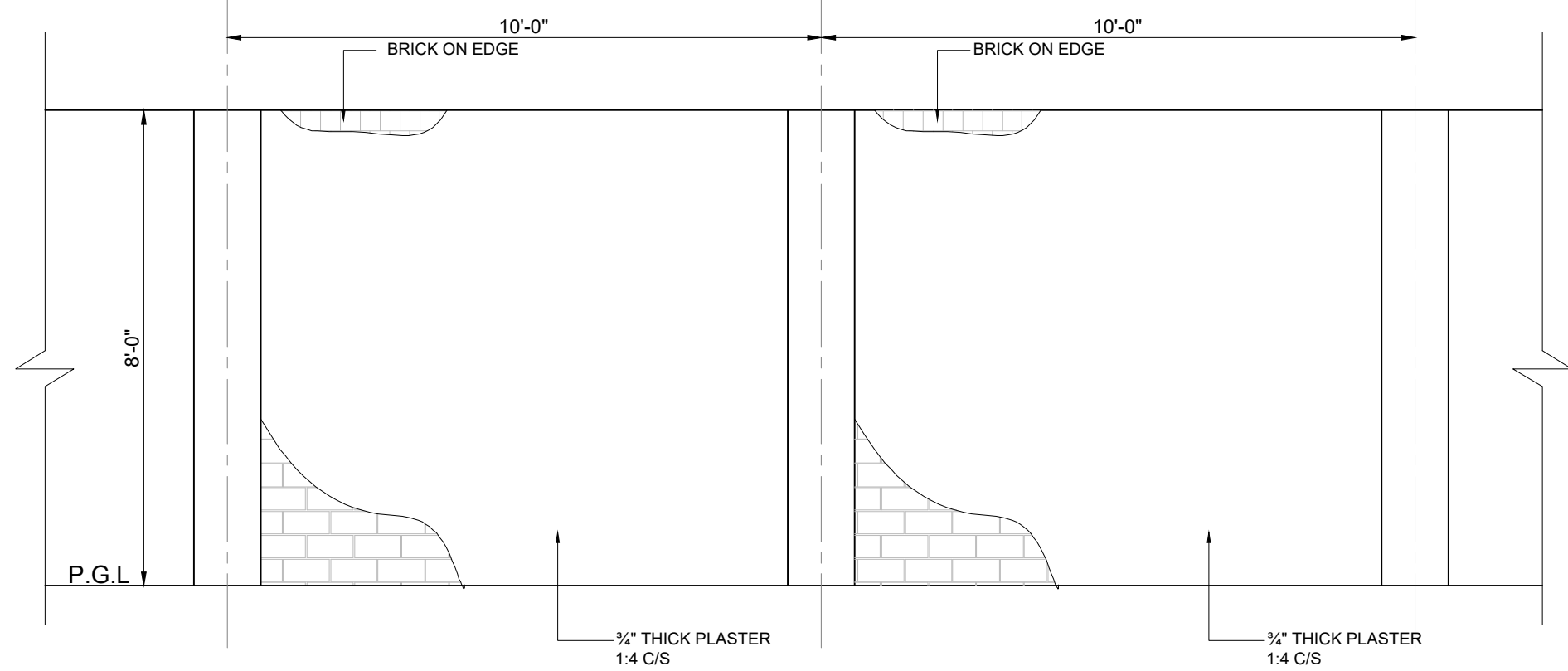


PARTITION WALL FOOTING PLAN



PARTITION WALL TOP PLAN

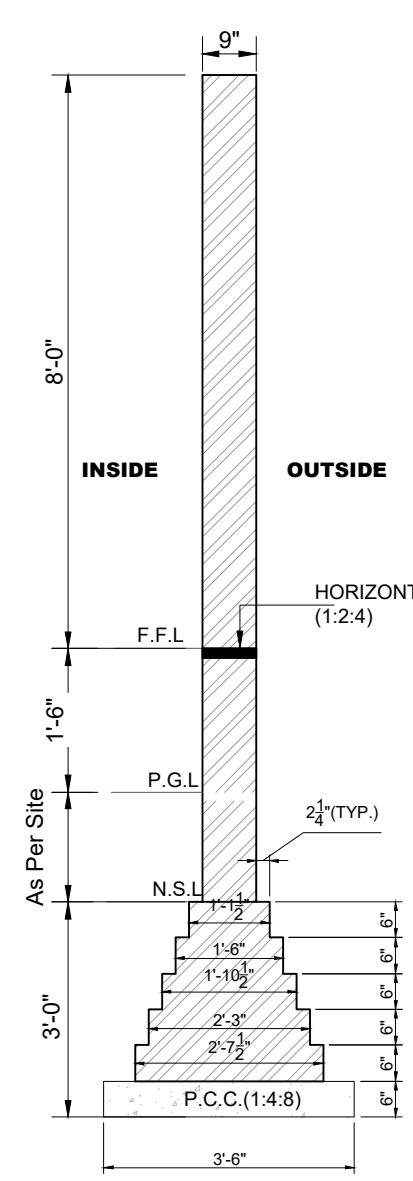
BRICK MASONRY WALL
C/S MORTAR 1:3



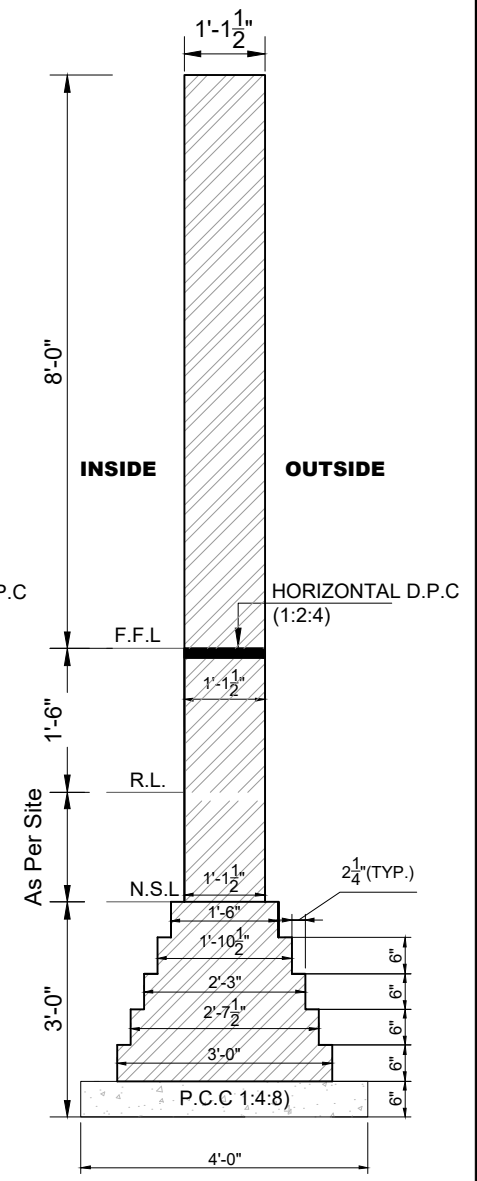
PARTITION WALL ELEVATION

3/4" THICK PLASTER
1:4 C/S

3/4" THICK PLASTER
1:4 C/S




SECTION A-A
SCALE: 3/8"=1'-0"



SECTION B-B
SCALE: 3/8"=1'-0"

NOTE:
PROVIDE A STEEL BAR OF LENGTH 6'-6" #3 @ 8TH COURSE OF EVERY BRICK COURSE

CLIENT:



PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

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SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 239

DRAWING TITLE:

PARTITION WALL SECTIONAL ELEVATION DETAIL

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR

CHECKED BY:
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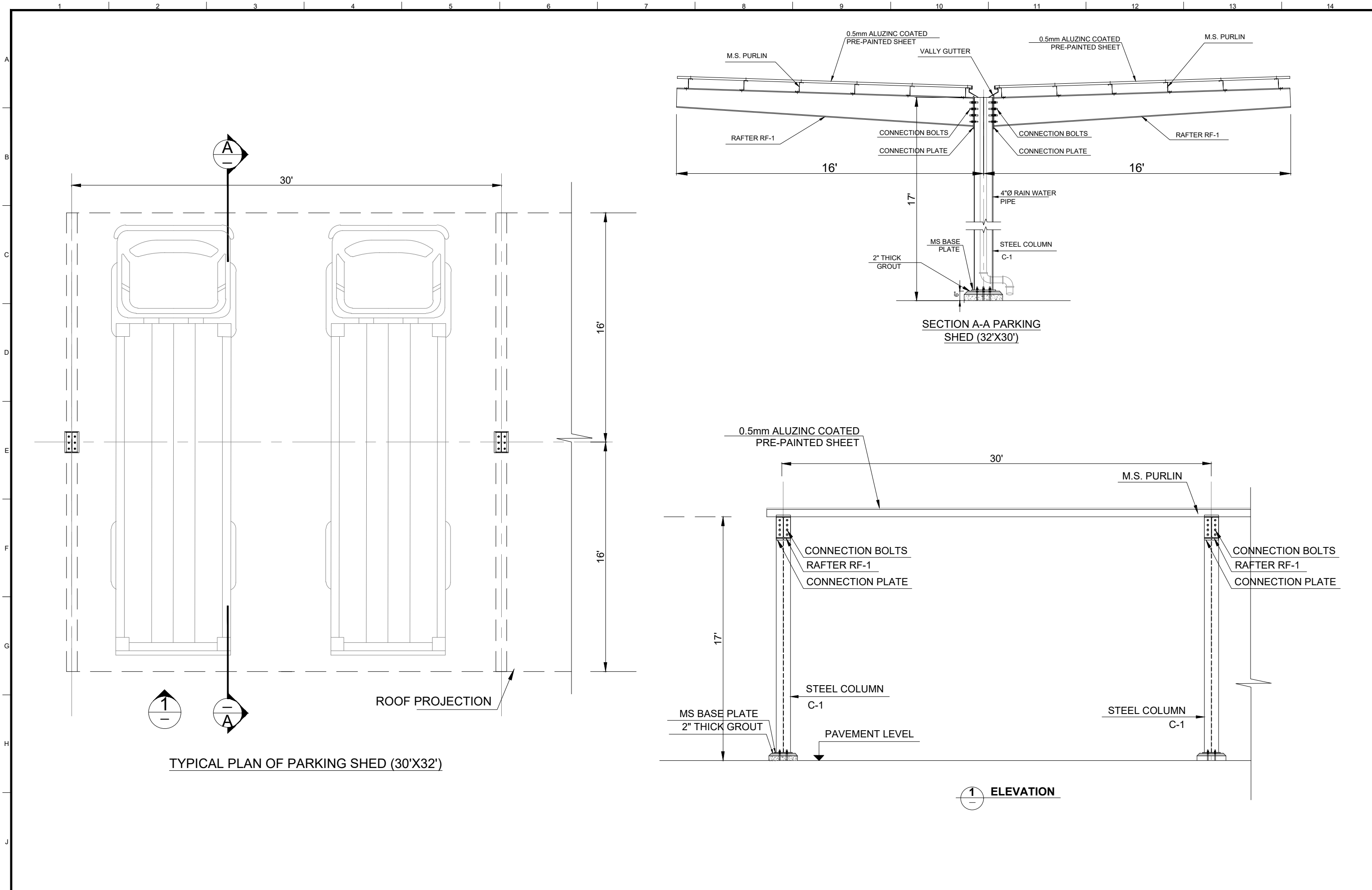
DATE:
FEB, 2023


DRAWING NO:
AR-24

SCALE:
UNIT=FEET

SHEET:
1 OF 1
JOB NO:
488-01

PARKING SHED ARCHITECTURE



CLIENT:
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 16 CITIES OF PUNJAB. 241

DRAWING TITLE:
TYPICAL DETAILS OF PARKING SHED-1

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR

CHECKED BY:
M.HASEEB

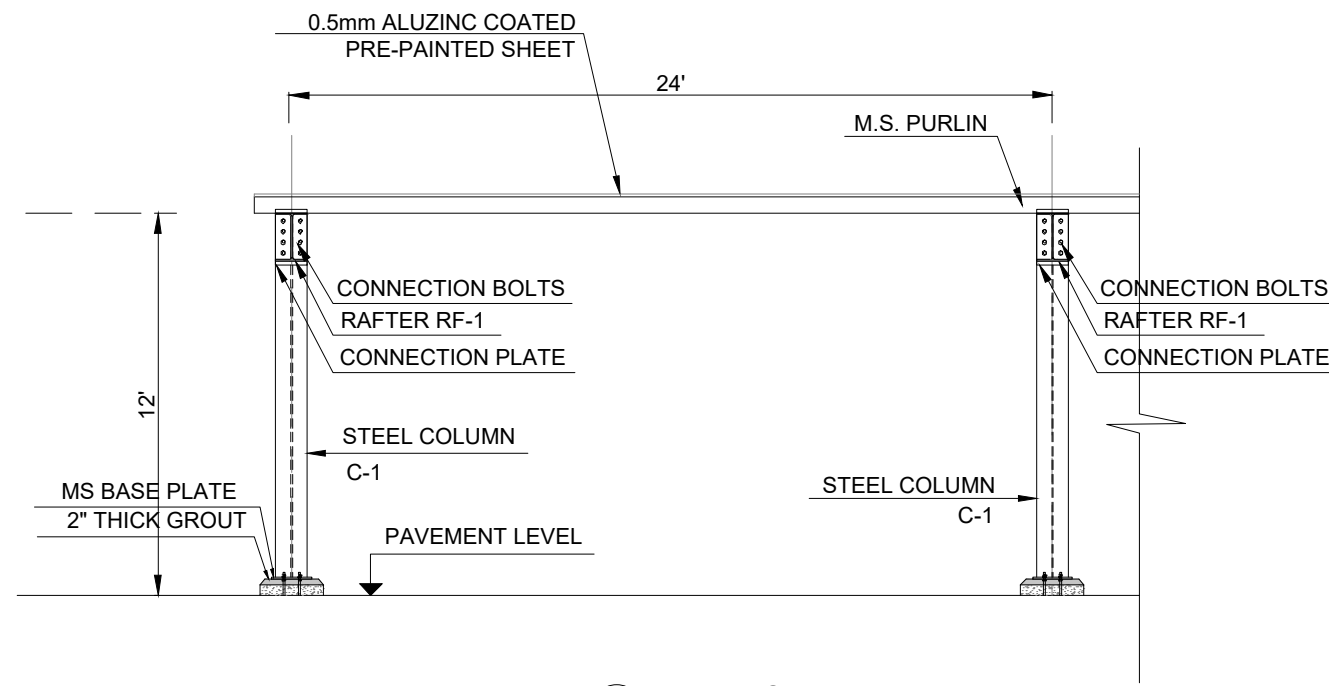
DATE:
FEB, 2023

DRAWING NO:
AR-25

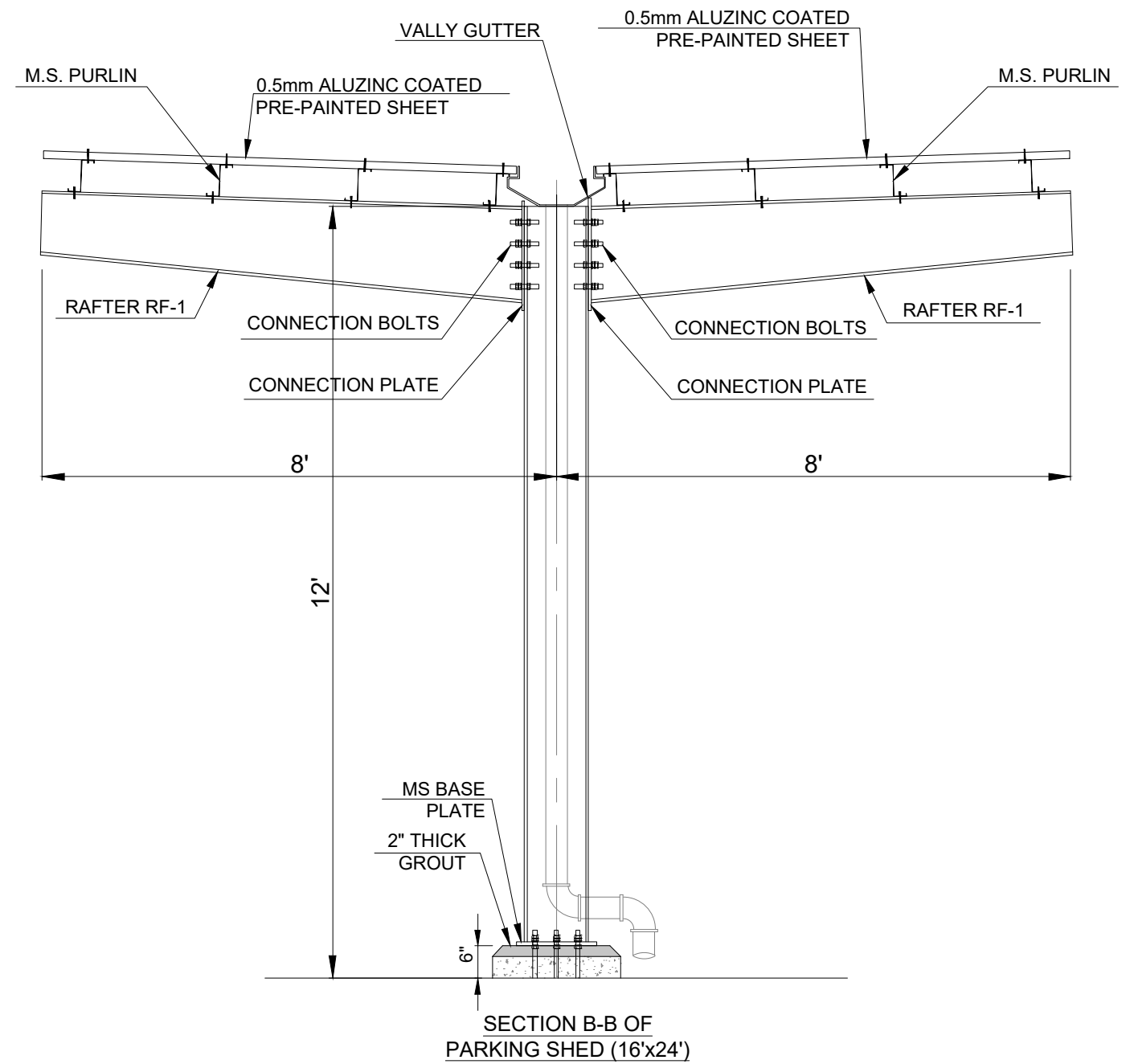
SCALE:
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SHEET:
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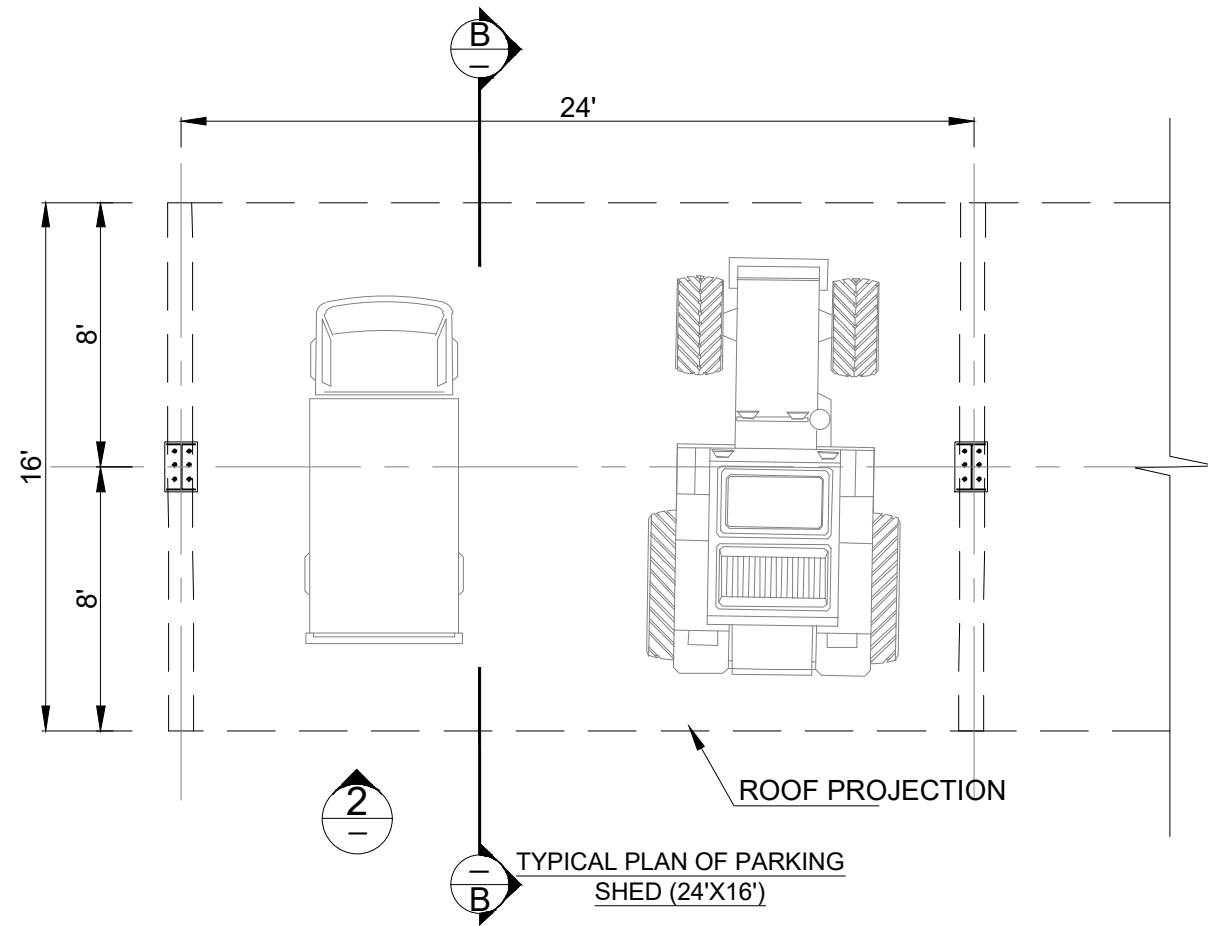
JOB NO:
488-01



2 ELEVATION



SECTION B-B OF PARKING SHED (16'x24')



TYPICAL PLAN OF PARKING SHED (24'x16')

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

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PROJECT:
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 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 242

DRAWING TITLE:
TYPICAL DETAILS OF PARKING SHED-2

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB, 2023

DRAWING NO:
AR-26
 SCALE:
UNIT=FEET
 SHEET:
-
 JOB NO:
488-01

STRUCTURAL DRAWINGS

GENERAL

- ALL STRUCTURAL DRAWINGS MUST BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL DRAWINGS.
- ALL DIMENSIONS AND LEVELS ARE IN FEET & INCHES UNLESS NOTED OTHERWISE.
- NO DIMENSION IS TO BE SCALED FROM THE DRAWINGS AND THE CONTRACTOR IS TO CHECK ALL THE DIMENSIONS BEFORE START OF THE WORKS.
- PROJECT SPECIFICATIONS, BOQ DESCRIPTION WILL GOVERN EXCEPT AS NOTED ON THE DRAWINGS.
- ALL FOUNDATIONS BLINDING CONC. SHALL BE PLACED ONTO FIRM UNDISTURBED SOIL.
- ALL EARTH SURFACES AGAINST WHICH CONCRETE IS TO BE POURED SHALL BE CLEAN AND FREE OF ANY DETRIMENTAL IMPURITIES, ORGANIC MATTER OR UNSUITABLE MATERIAL.
- ALL EXCAVATED AREA MUST BE PROOF ROLLED BEFORE BLINDING CONCRETE POURING.
- CONCRETING SHOULD NOT BE DONE IN STANDING WATER.
- FOUNDATIONS SHOULD BE BACK FILLED BY APPROVED MATERIAL COMPACTED IN LAYERS OF 9" LOOSE THICKNESS.
- FOUNDATIONS DESIGN IS BASED ON ALLOWABLE SOIL BEARING PRESSURE OF 0.8 TONS PER SQUARE FOOT.

REINFORCEMENT

- ALL REINFORCEMENT SHALL BE GRADE 60, DEFORMED STEEL AS PER ASTM A615
- CLEAR COVER TO REINFORCEMENT SHALL BE AS FOLLOWS (THE DIMENSIONS INDICATE THE CLEAR DISTANCE FROM THE EDGE OF THE SECONDARY REINFORCEMENT (TIES OR STIRRUPS) TO THE CONCRETE SURFACE)

(i) FOUNDATIONS	3 INCH
(ii) FOOTING BEAMS	2 INCH
(iii) COLUMNS	1 1/2" INCH
(iv) BEAMS IN SUPER STRUCTURE	1 1/2" INCH
(v) SLABS IN SUPER STRUCTURE	3/4 INCH
(vi) WALLS	
(a) OUTER FACE OF RETAINING WALLS	2 INCH
- FOR BAR LAP LENGTHS REFER TO TABLE 1.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIX ALL EMBEDDED ITEMS PRIOR TO START OF R.C.C. WORK.
- PROVIDE #3 BARS @12" C/C FOR BINDING ALL TOP STEEL OF SLAB.

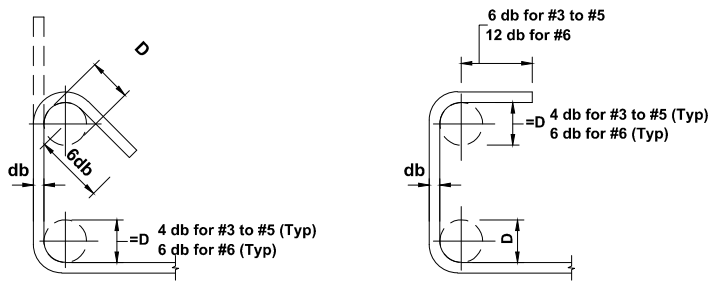
CONCRETE

- REINFORCED CONCRETE MATERIALS SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED ON THE DRAWING:-
 - CEMENT FOR FOUNDATIONS & PLINTH BEAMS SHALL CONFORM TO ASTM C-150 TYPE-1 (ORDINARY PORTLAND CEMENT)
 - CEMENT FOR SUPERSTRUCTURE SHALL CONFORM TO ASTM C-150 TYPE-1 (ORDINARY PORTLAND CEMENT)
 - AGGREGATE SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR CONCRETE AGGREGATE ASTM C33"
 - WATER SHALL BE FREE FROM OIL OR OTHER MATERIALS THAT CAN ADVERSELY AFFECT CONCRETE STRENGTH OR DURABILITY
- ALL CONCRETE EXPOSED SURFACES SHALL HAVE FAIR FACE FINISH. ALL CONCRETE SURFACES BURIED INTO GROUND MAY HAVE ORDINARY FINISH.
- CONCRETE SHALL HAVE THE FOLLOWING 28 DAYS COMPRESSIVE CYLINDER STRENGTH AND SHALL CONFORM TO "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE ACI- 318-2002 (CUBE STRENGTH IN BRACKETS)
 - PLAIN CEMENT CONCRETE (BLINDING CONCRETE 1:4:8) 800 psi (1000 psi)
 - REINFORCED CONCRETE 1:2:4 (FOOTINGS, SLABS, BEAMS ETC.) 2500 psi (3000 psi)

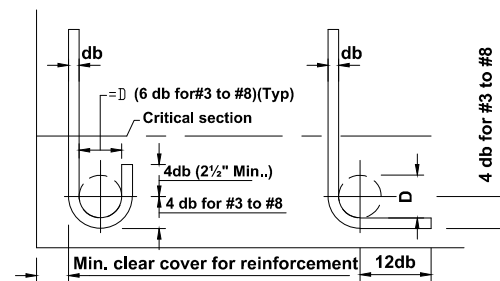
MASONRY

- ALL BRICK WORK SHALL BE FIRST CLASS SOLID BURNT BRICK MASONRY LAID IN THE FOLLOWING CEMENT-SAND MORTAR RATIOS.
 - BRICK WORKING IN FOUNDATION 1:6
 - IN SUPER STRUCTURE FOR 9" & 13 1/2" BRICK WORK 1:6
 - IN SUPER STRUCTURE FOR 4 1/2" AND LESS, BRICK WORK 1:4
- ALL HORIZONTAL D.P.C SHALL BE 1 1/2" THICK 1:2:4 P.C.C
- ALL VERTICAL D.P.C SHALL BE 3/4" THICK 1:4 CEMENT-SAND MORTAR
- 1/4" THICK, 1:3 CEMENT-SAND PLASTER SHALL BE PROVIDED ON SOFFITS OF CEILING, CANTILEVER SLABS, SIDES & SOFFITS OF BEAM.
- 1/2" THICK, 1:5 CEMENT-SAND PLASTER SHALL BE PROVIDED ON ALL INTERNAL FACES OF MASONRY AND COLUMNS.
- ALL EXTERNAL BRICK COLUMNS & EXTERNAL FACES OF MASONRY SHALL RECEIVE DEEP RULED POINTING IN 1:3 CEMENT-SAND MORTAR

TABLE 1	
BARS LAP LENGTHS	
BAR USE	LAP LENGTHS
#3	18"
#4	2'-0"
#6	3'-3"
#8	4'-6"



STIRRUP 135° HOOK STIRRUP 90° HOOK



END HOOK

ABBREVIATIONS

GENERAL		REINFORCEMENT		CONCRETE	
@	AT	@	AT	@	AT
ARCH	ARCHIECHTURAL	— —	TOP BARS	B	BEAM
BOQ	BILL OF QUANTITIES	— — —	BOTTOM BARS	BOF	BOTTOM OF FOOTING
C/C	CENTER TO CENTER	AB	ALTERNATE BARS	BOR	BOTTOM OF RAFT
CHQ	CHEQUERED	ADD	ADDITIONAL	BOTT	BOTTOM
CL	CENTER LINE	BF	BOTTOM FACE	C	COLUMN
DIA	DIAMETER	CONT	CONTINUOUS	CJ	CONSTRUCTION JOINT
D.P.C	DAMP PROOF COURSE			CONC	CONCRETE
DRG	DRAWING	DIR	DIRECTION	EJ	EXPANSION JOINT
EL	ELEVATION	DISTR	DISTRIBUTION	F	FOOTING
ELEC	ELECTRICAL	DWLS	DOWELS	FB	FLOOR BEAM
EQ	EQUAL	EF	EACH FACE	fc'	CYLINDER COMP. STRENGTH
FFL	FINISHED FLOOR LEVEL	EL	EACH LAYER	GB	GRADE BEAM
FGL	FINISHED GRADE LEVEL	FF	FAR FACE	P.C.C.	PLAIN CEMENT CONCRETE
FIG	FIGURE	fy	YEILD STRENGTH OF STEEL	PC	PRECAST CONCRETE
ft	FEET	IF	INNER FACE	R.C.C.	REINFORCED CEMENT CONCRETE
GL	GROUND LEVEL	IL	INSIDE LAYER	RW	RETAINING WALL
HEX	HEXAGONAL	MS	MILD STEEL	SSL	STRUCTURAL SLAB LEVEL
ID	INNER DIAMETER	NF	NEAR FACE	TL	TOP LEVEL
in	INCH	Ø	REINFORCEMENT BAR DIAMETER	TOB	TOP OF BEAM
Kg	KILOGRAM	OF	OUTER FACE	TOC	TOP OF CONCRETE
M	METER	OL	OUT SIDE LAYER	U.R.C.	UNREINFORCED CONCRETE
MAX	MAXIMUM	REBAR	REINFORCING BAR	W	WALL
MECH	MECHANICAL	REINF	REINFORCEMENT	WF	WALL FOOTING
MH	MANHOLE	STR	STIRRUPS		
MIN	MINIMUM	TF	TOP FACE		
mm	MILLIMETER	WWF	WELDED WIRE FABRIC		
NOM	NOMINAL				
NTS	NOT TO SCALE				
OC	ON CENTER				
OCT	OCTAGONAL				
OD	OUTER DIAMETER				
PROJ	PROJECTION				
QTY	QUANTITY				
R	RADIUS				
REQ	REQUIRED				
SECT	SECTION				
SL	SECTION LINE				
SPA	SPACING				
SQ	SQUARE				
SYM	SYMMETRICAL				
TEMP	TEMPERATURE				
THK	THICK				
TYP	TYPICAL				
VAR	VARIABLE, VARIES				
WL	WATER LEVEL				

CLIENT:



**PUNJAB MUNICIPAL DEVELOPMENT
FUND COMPANY
(PMDFC)**

CONSULTANTS:



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PROJECT:

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 244**

DRAWING TITLE:

GENERAL NOTES

REV.	DATE	DESCRIPTION

DRAWN BY:

MUNIR

CHECKED BY:

HASEEB

DATE:

FEB, 2023

DRAWING NO:

GN-00

SCALE:

UNIT=FEET

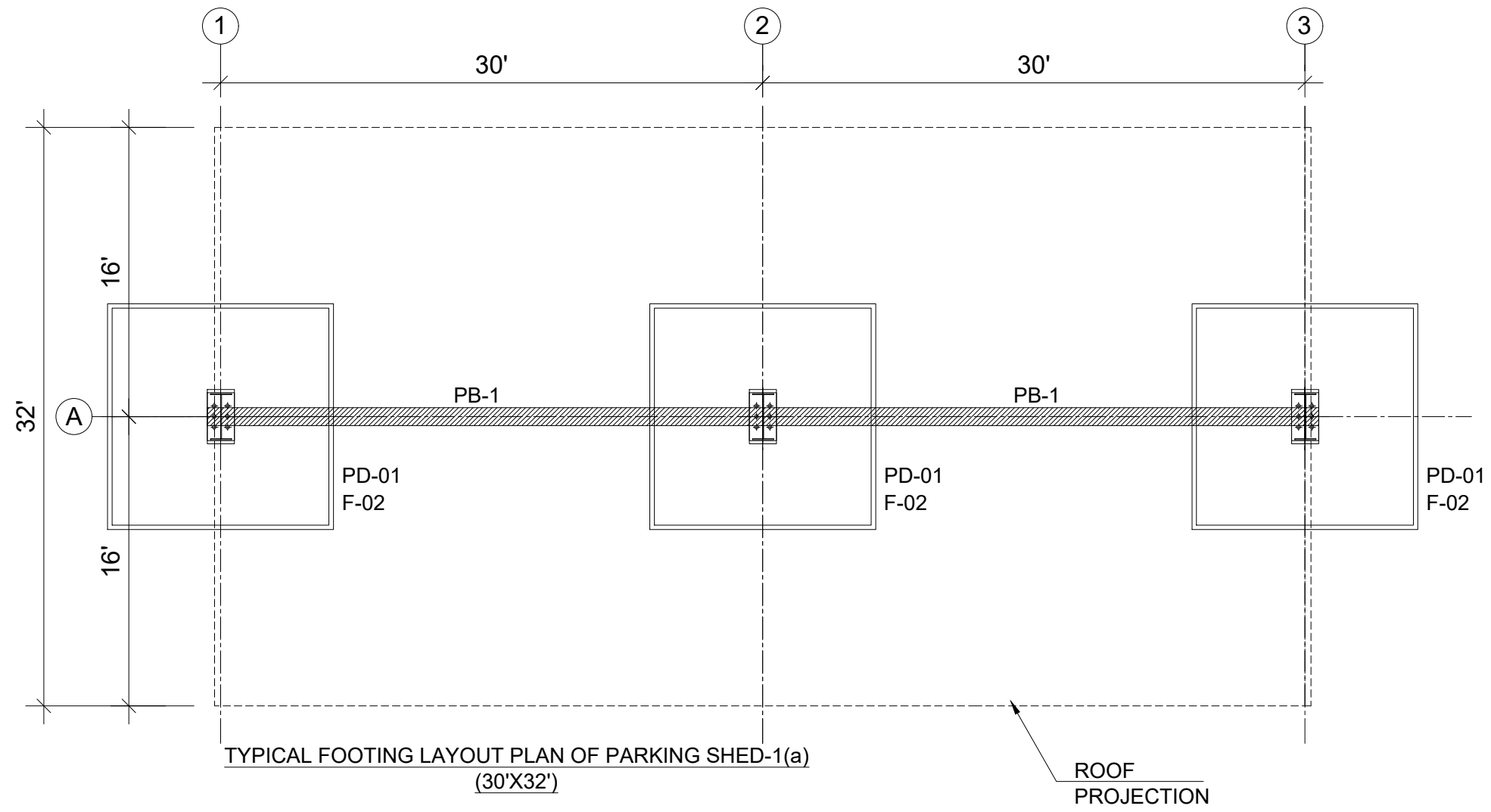
SHEET:

1 OF 1

JOB NO:

488-01

PARKING SHED STRUCTURE



CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

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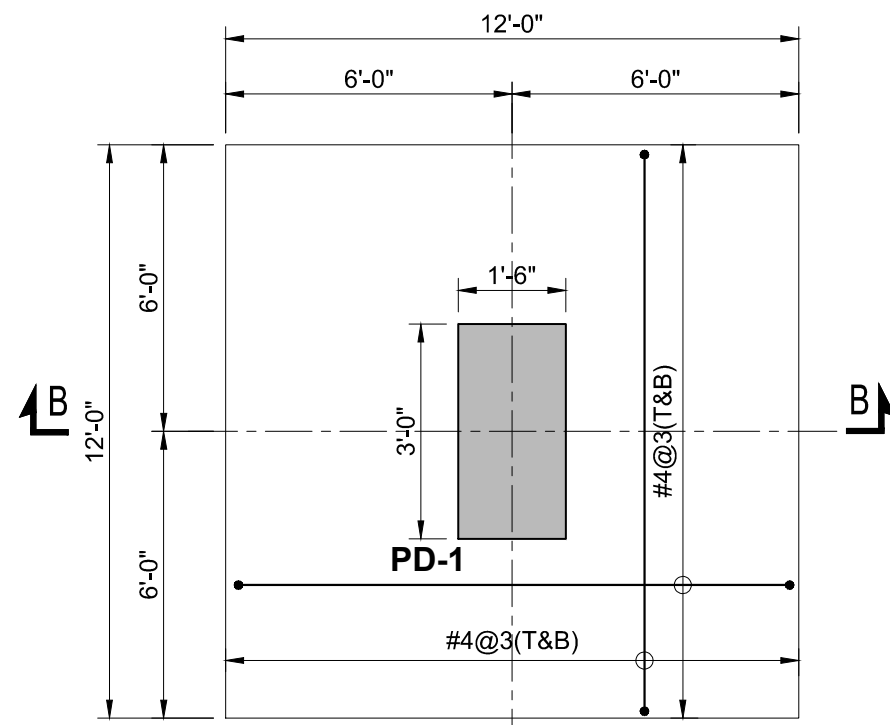
PROJECT:
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DRAWING TITLE:
PARKING SHED-1(a)
FOOTING LAYOUT PLAN

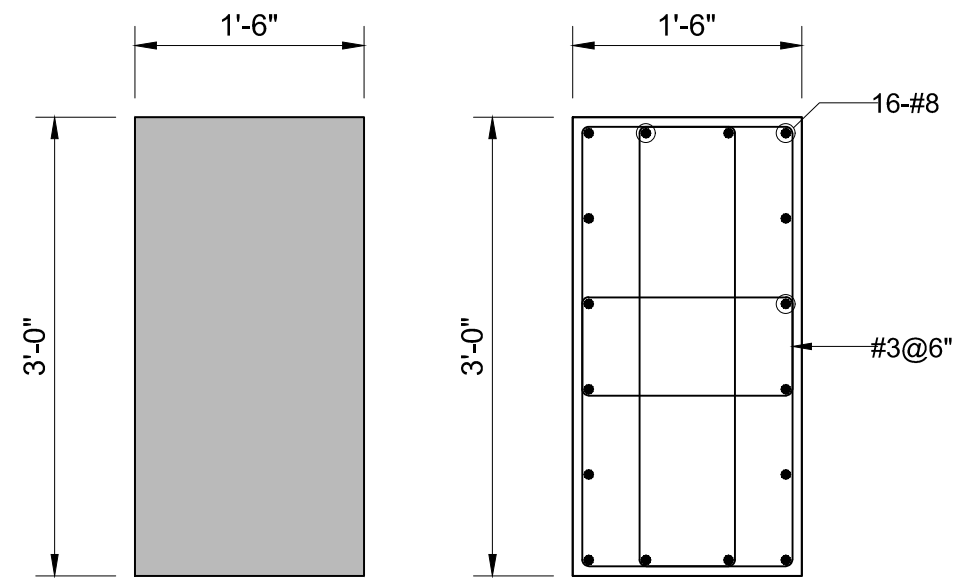
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DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023

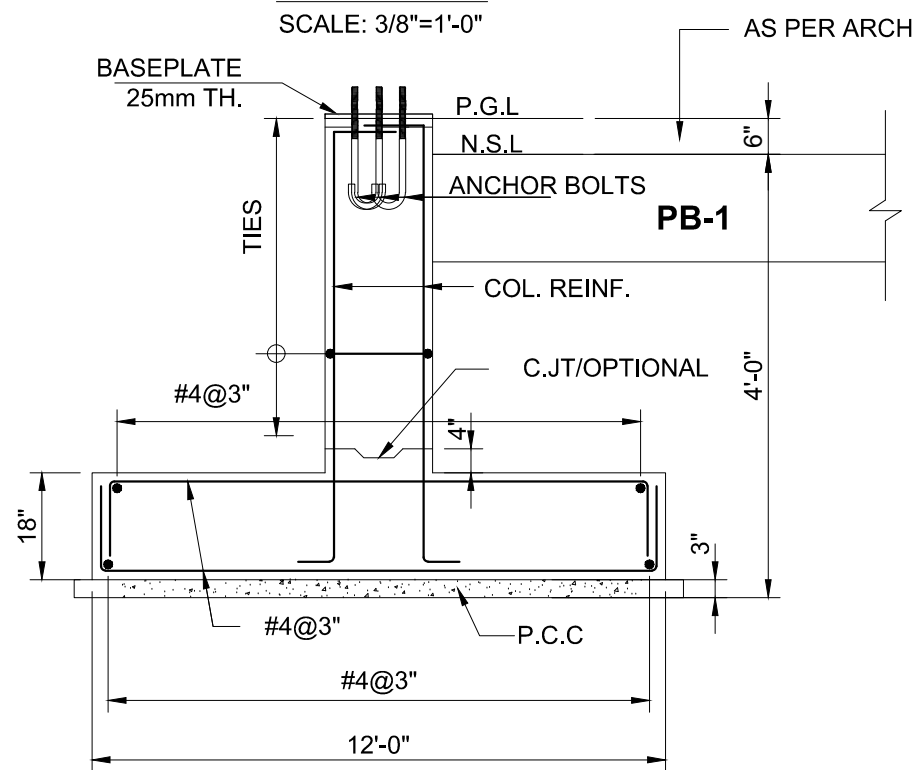
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1 OF 1
 JOB NO:
488-01



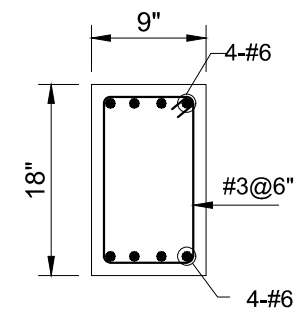
FOOTING F-2
SCALE: 3/8"=1'-0"



PEDESTAL PD-1
SCALE 1:15



SECTION B-B
SCALE: 3/8"=1'-0"



PLINTH BEAM PB-1
SCALE 1:15

CLIENT:

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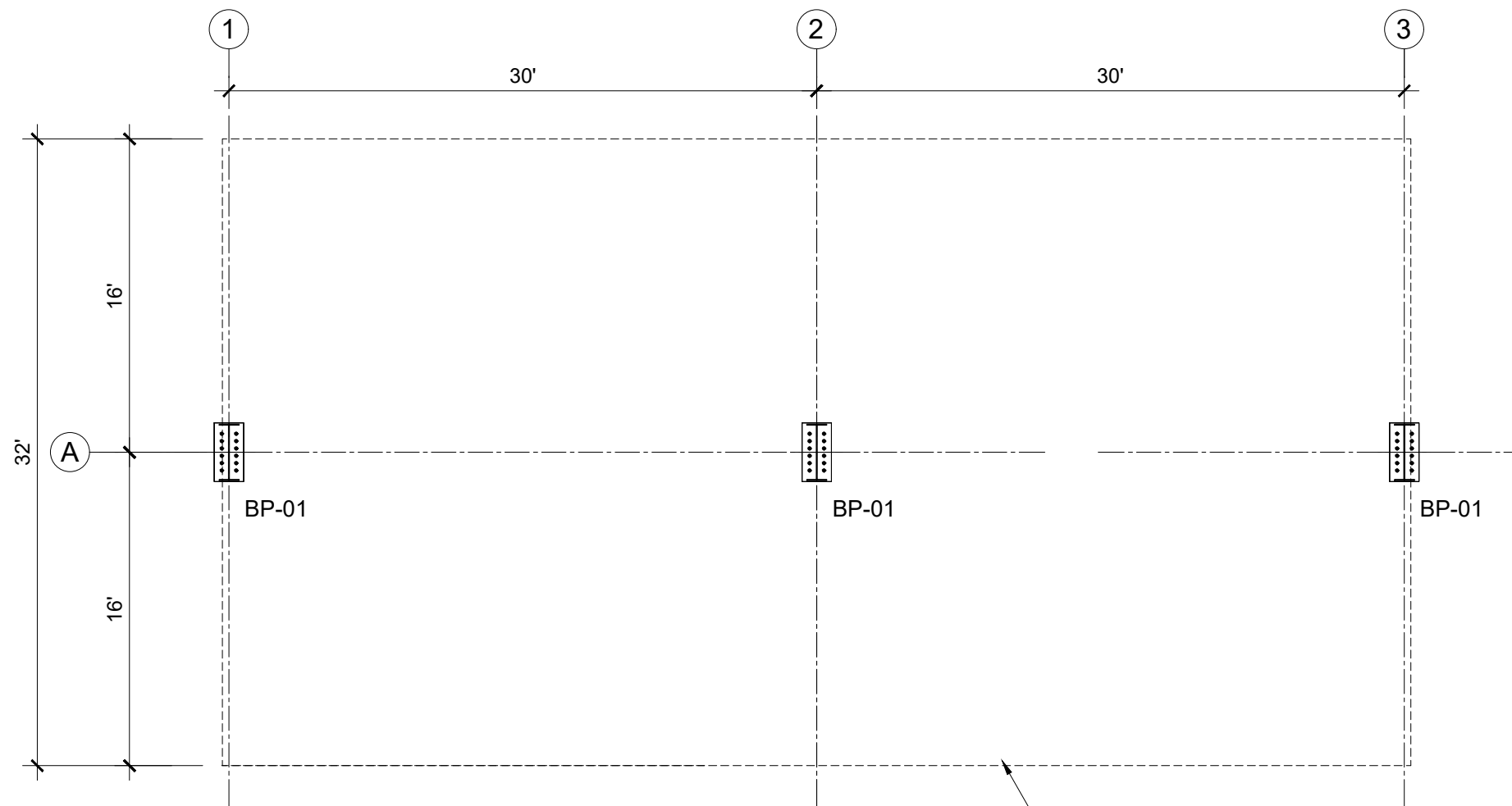
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 247

DRAWING TITLE:
PARKING SHED-1(a)
FOOTING AND PEDESTAL
DETAIL

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-02
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



TYPICAL PLAN OF PARKING SHED-1(a) (30'X32')

ROOF PROJECTION

CLIENT:



CONSULTANTS:



JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

PROJECT:

PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 248

DRAWING TITLE:

PARKING SHED-1(a)
ANCHOR BOLT PLAN

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

MUNIR

CHECKED BY:

HASEEB

DATE:

FEB, 2023

DRAWING NO:

ST-03

SCALE:

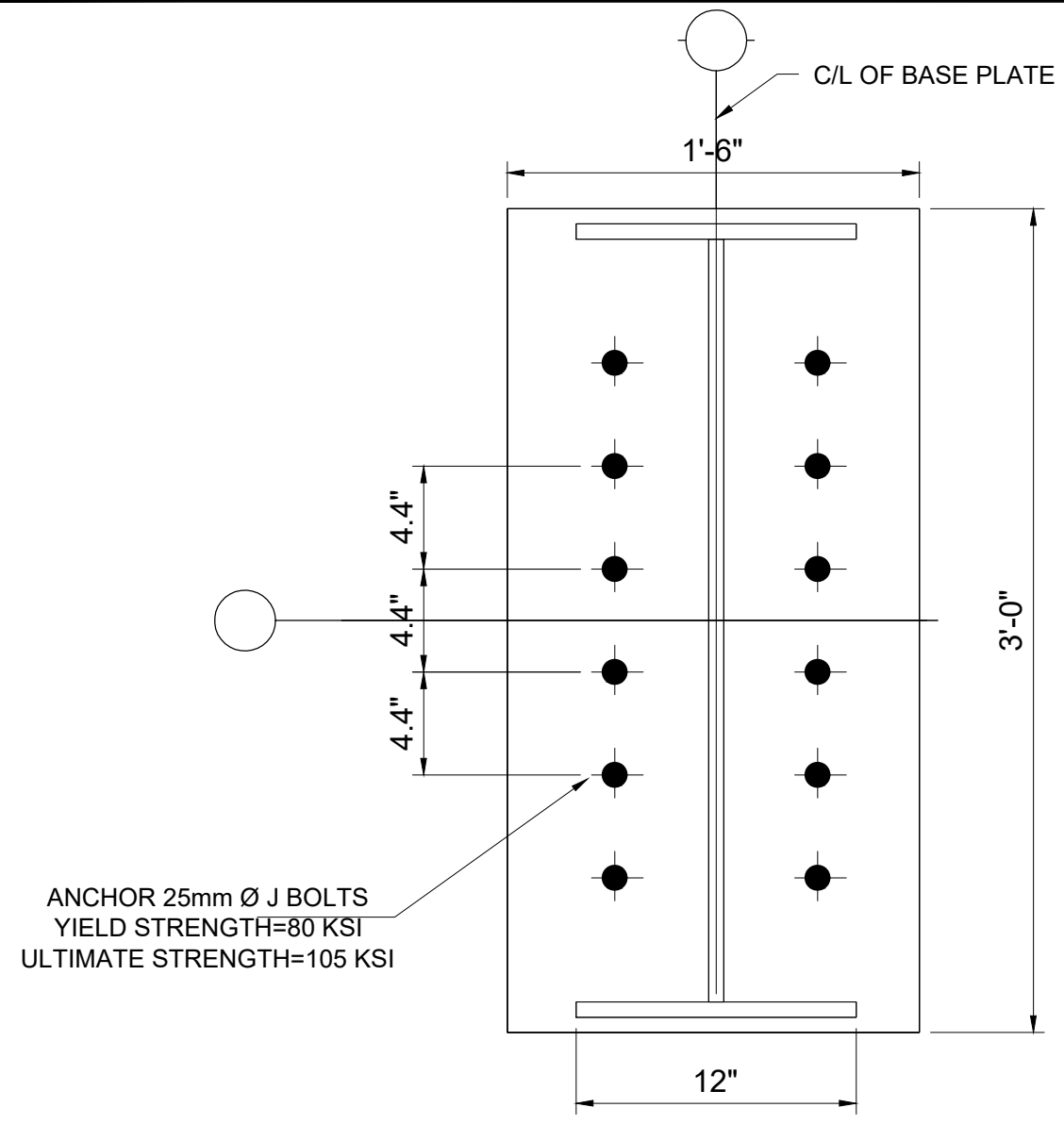
UNIT=FEET

SHEET:

1 OF 1

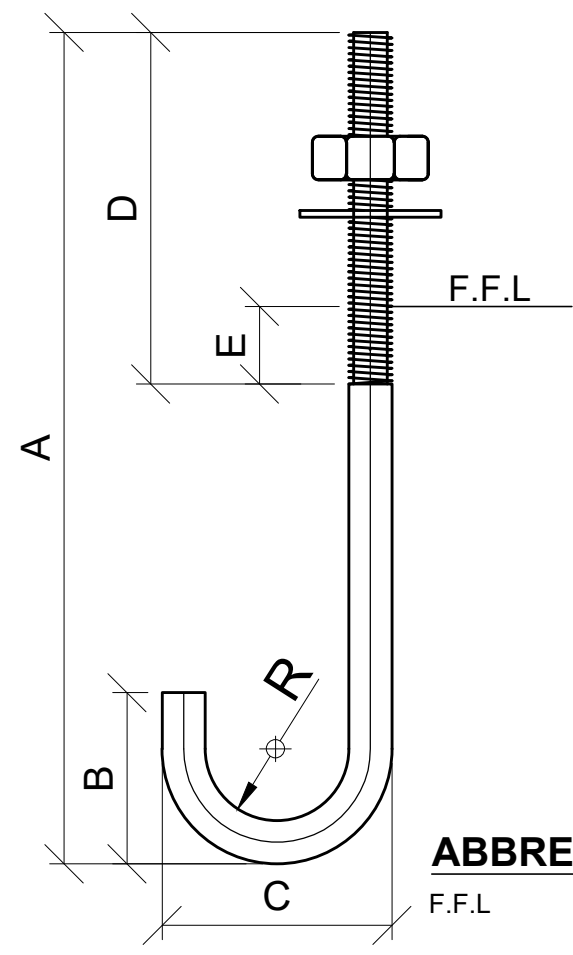
JOB NO:

488-01



ANCHOR 25mm Ø J BOLTS
YIELD STRENGTH=80 KSI
ULTIMATE STRENGTH=105 KSI

TYPICAL DETAIL - BP-1



ABBREVIATION:
F.F.L - FINISH FLOOR LEVEL

DIMENSIONAL PROPERTIES

BOLT			WEIGHT (Kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	RADIUS "R" (mm)	TOTAL STRAIGHT LENGTH (mm)	EMBEDMENT STRAIGHT LENGTH (mm)
QTY.	NOMINAL DIAMETER	THREAD PITCH									
12	M25	---	--	---	--	--	--	--	--	--	--

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

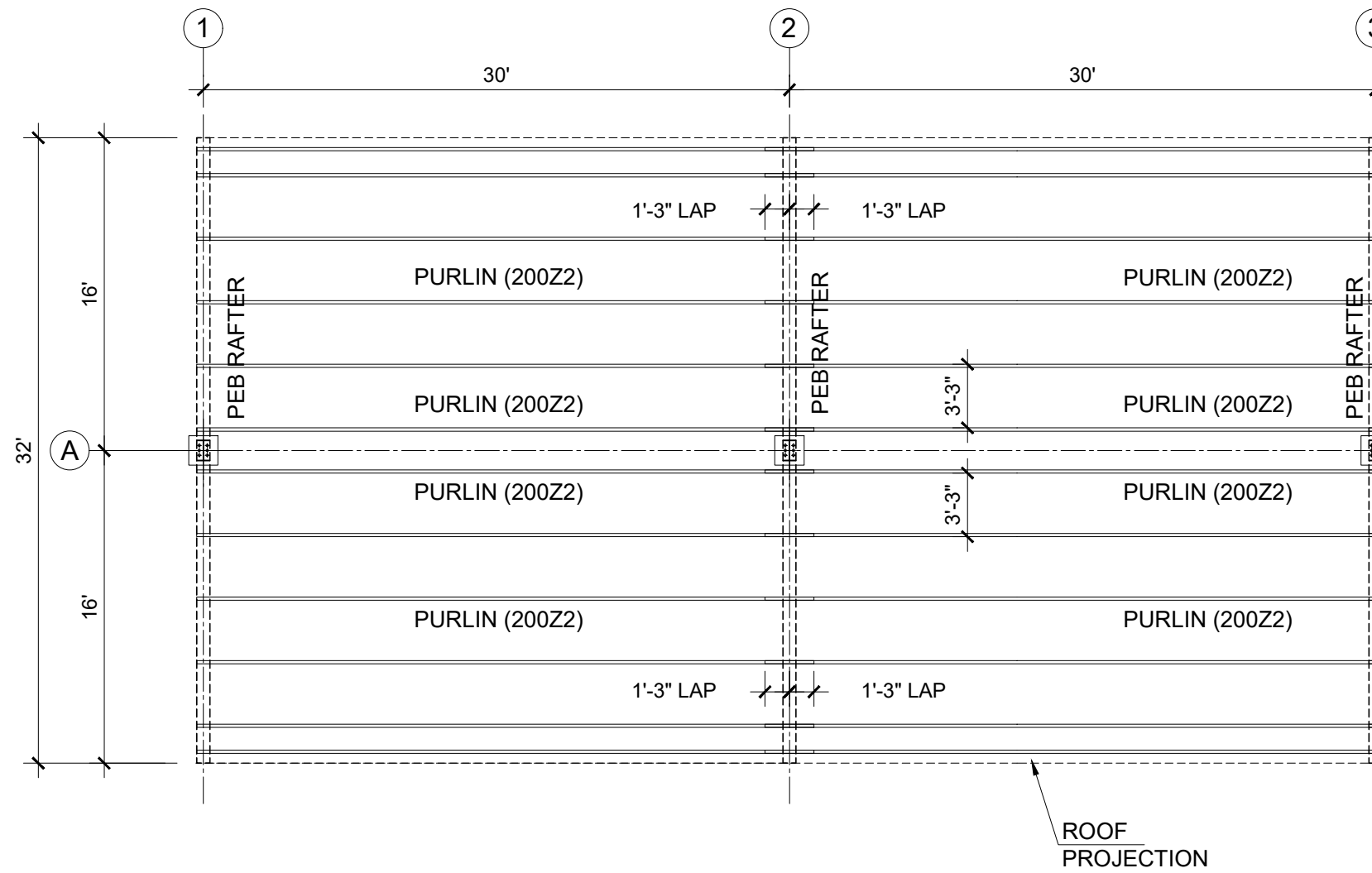
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 249

DRAWING TITLE:
**TYPICAL ANCHOR BOLTS
 DETAIL SHED-01(a)**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-04
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



**TYPICAL TOP MAIN FRAMING PLAN FOR ROOF PURLINS
OF PARKING SHED-1(a) (30'X32')**

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT
FUND COMPANY
(PMDFC)**

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

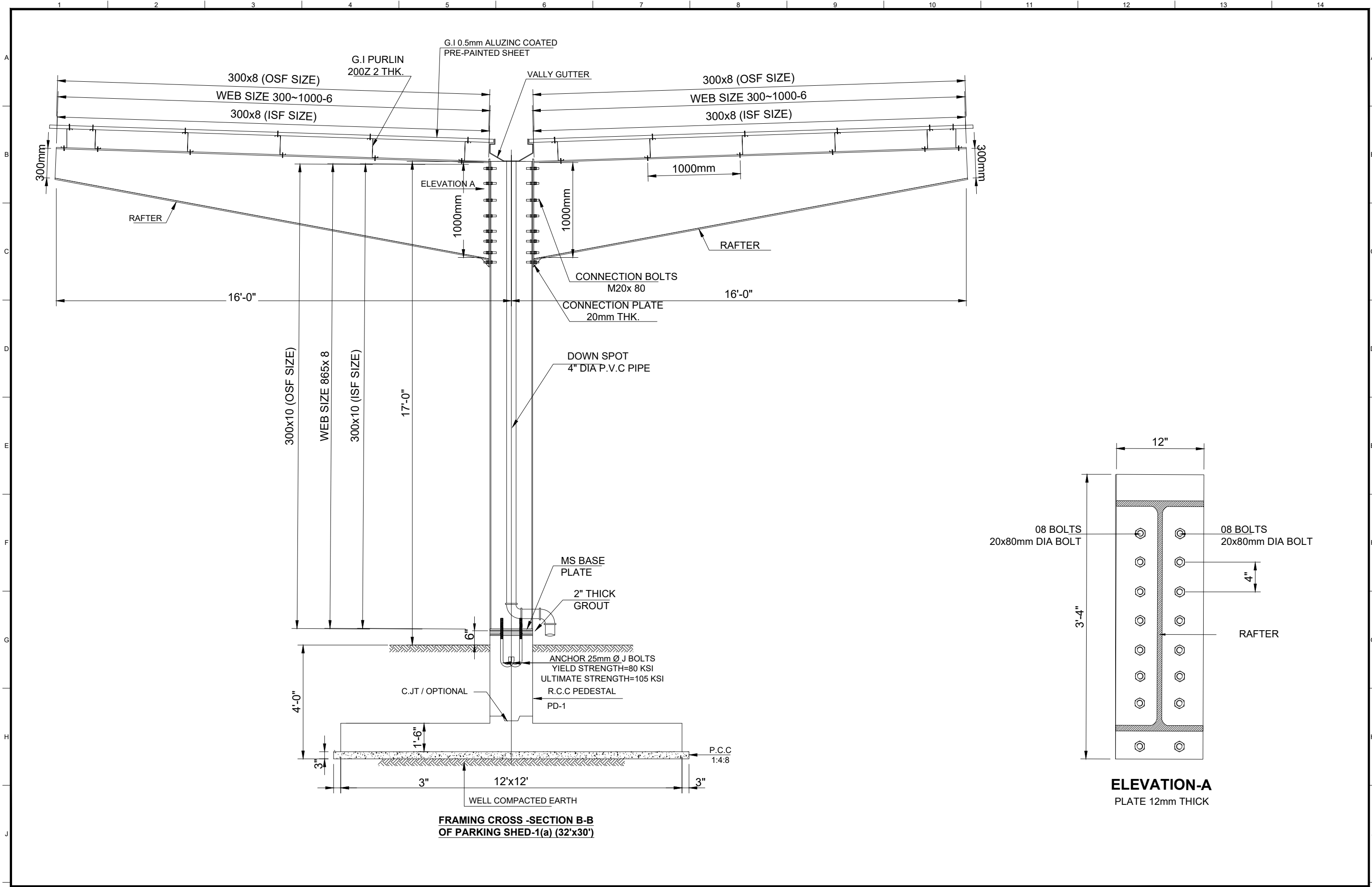
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 250

DRAWING TITLE:
PARKING SHED-1(a)
ROOF FRAMING LAYOUT PLAN

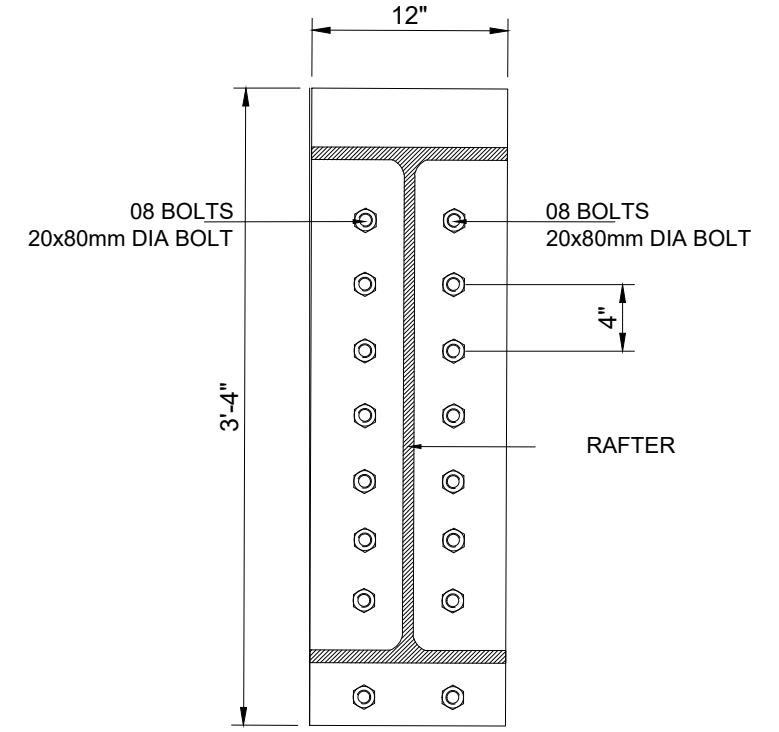
REV.	DATE	DESCRIPTION
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-	-	-
-	-	-
-	-	-
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023



DRAWING NO:
ST-05
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01

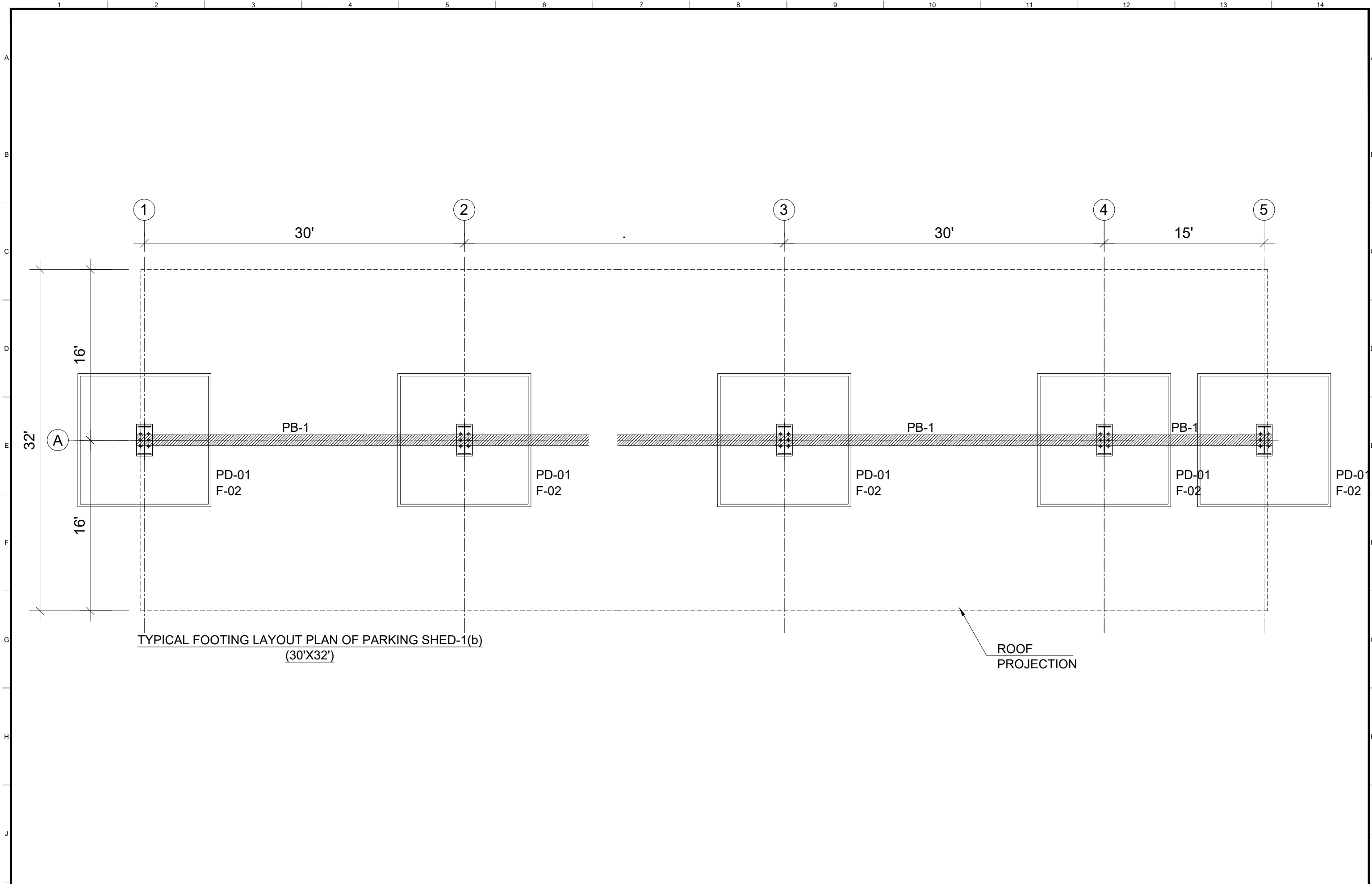


**FRAMING CROSS -SECTION B-B
OF PARKING SHED-1(a) (32'x30')**



**ELEVATION-A
PLATE 12mm THICK**

CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 252	DRAWING TITLE: PARKING SHED-1(a) TYPICAL CROSS SECTION	REV. DATE DESCRIPTION	DRAWN BY: MUNIR	DRAWING NO: ST-07
				- - -	CHECKED BY: M.HASEEB	SCALE: UNIT=FEET
				DATE: Feb,2023	JOB NO: 488-01	



CLIENT:

**HELP BUILD
PMDFC
HEALTHY CITIES**

**PUNJAB MUNICIPAL DEVELOPMENT
FUND COMPANY
(PMDFC)**

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
Tel: +92 42 35113123, +92 42 35113124
Fax: +92 42 35113125
E-mail: info@jers.com.pk, mail@jers.com.pk
Web: http://www.jers.com.pk

PROJECT:

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 253**

DRAWING TITLE:

**PARKING SHED-1(b)
FOOTING LAYOUT PLAN**

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

DRAWN BY:
MUNIR

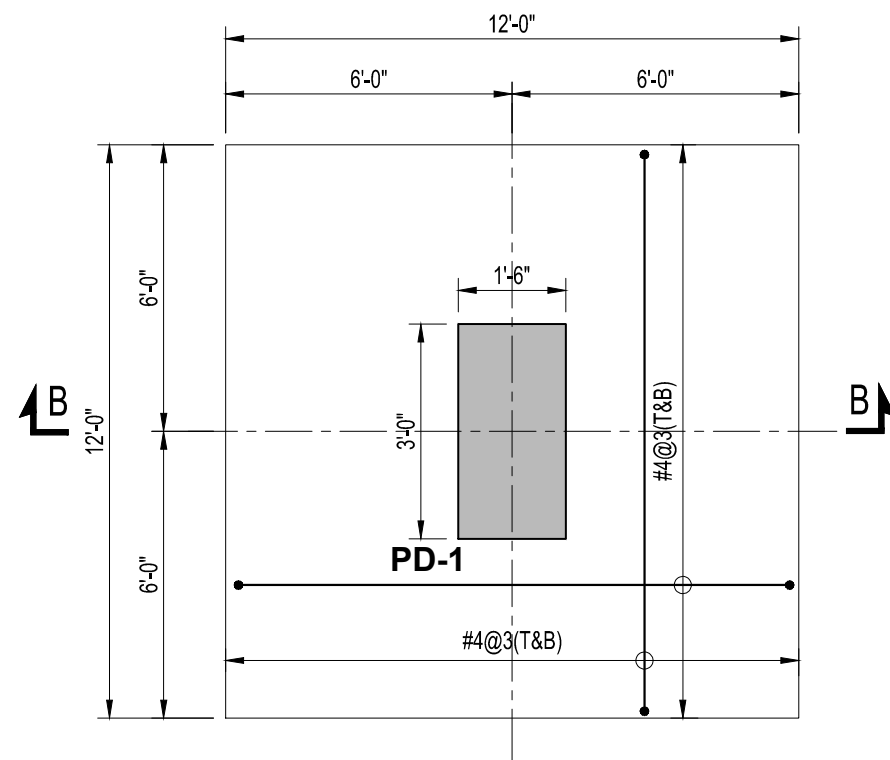
CHECKED BY:
HASEEB

DATE:
FEB, 2023

DRAWING NO:
ST-08

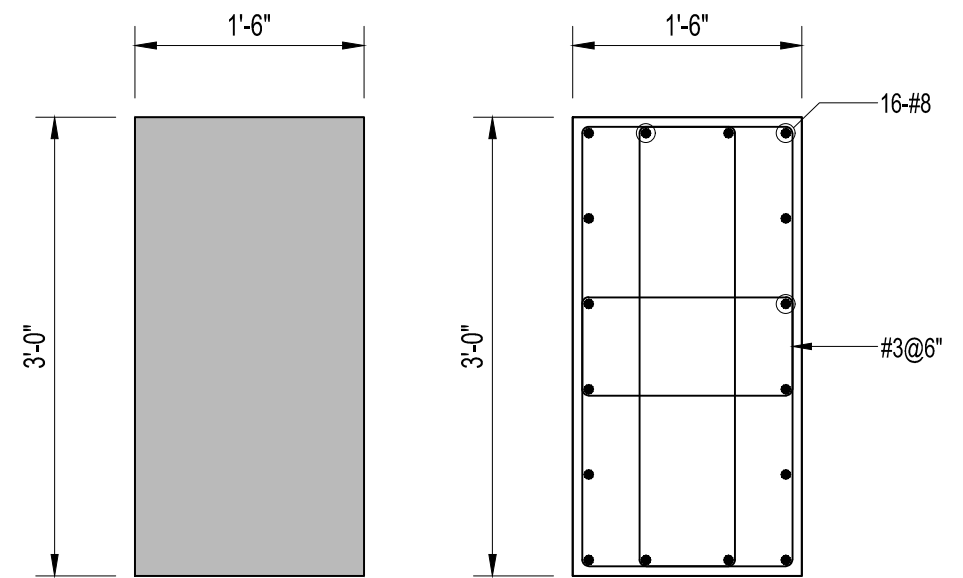
SCALE:
UNIT=FEET

SHEET:
1 OF 1
JOB NO:
488-01



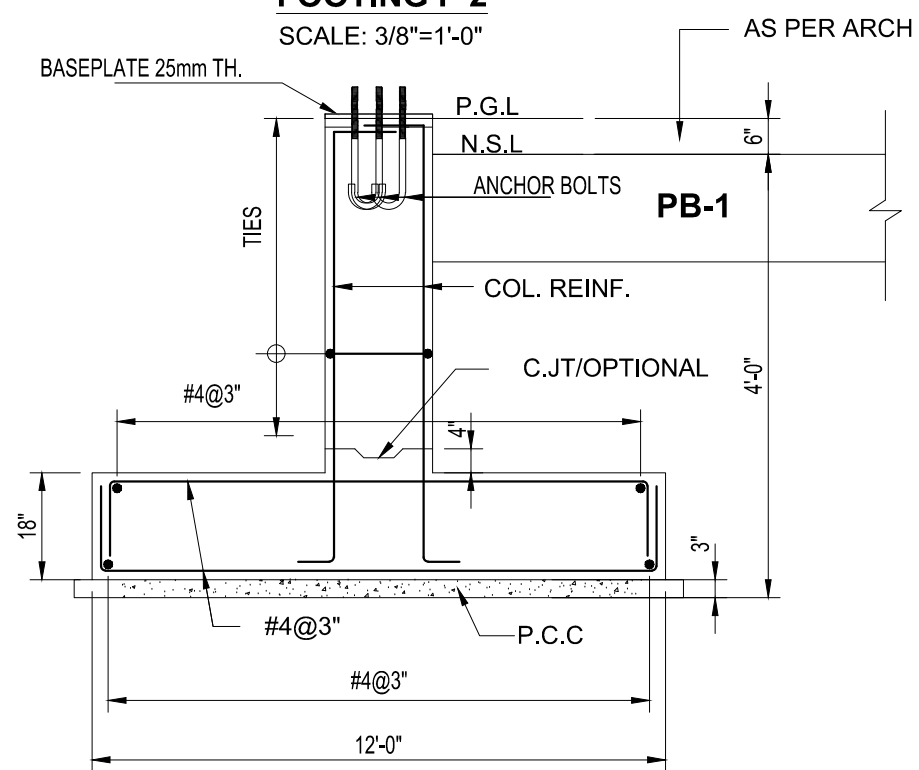
FOOTING F-2

SCALE: 3/8"=1'-0"



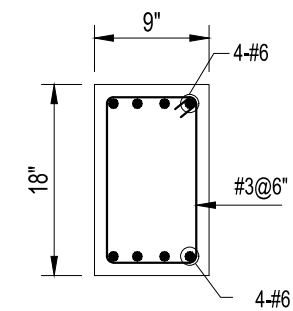
PEDESTAL PD-1

SCALE 1:15



SECTION B-B

SCALE: 3/8"=1'-0"



PLINTH BEAM PB-1

SCALE 1:15

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

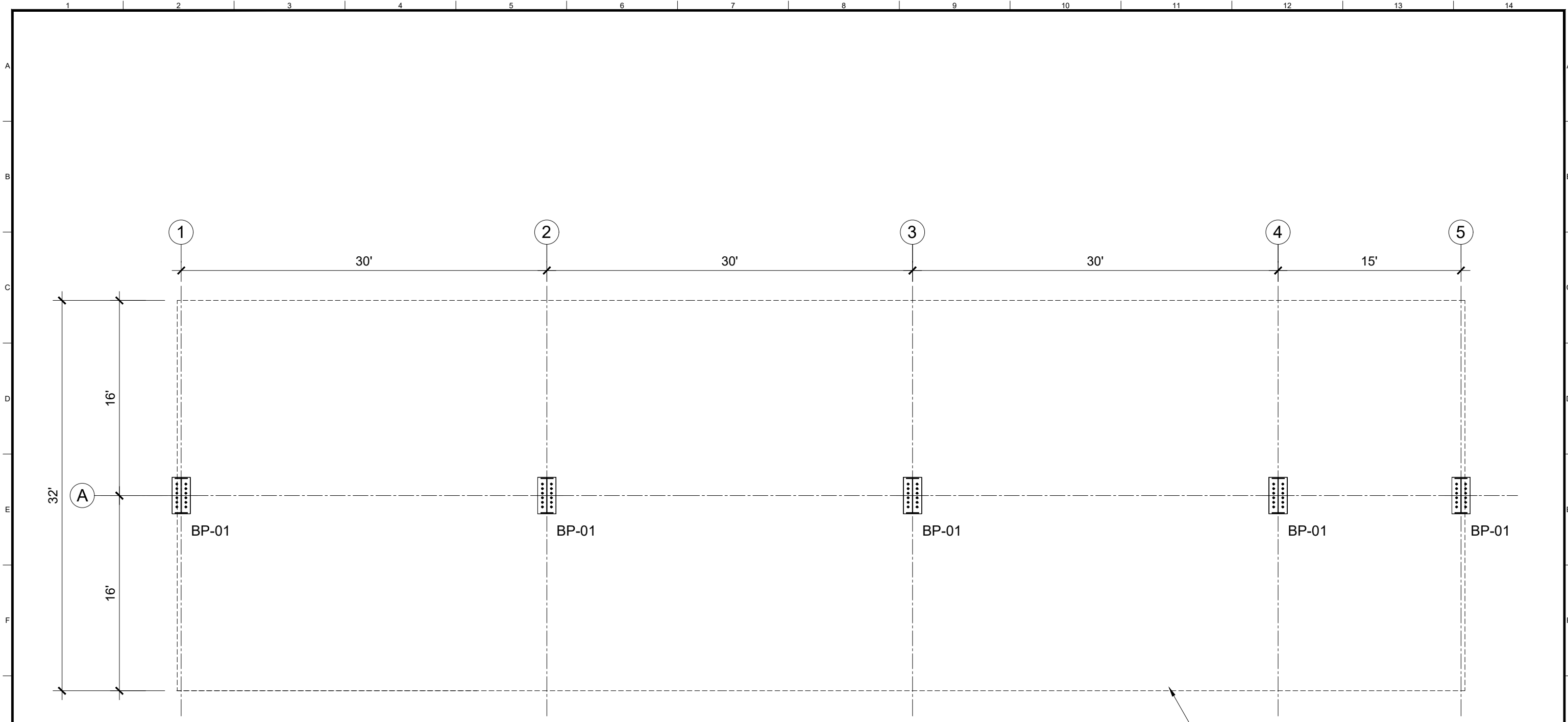
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 254

DRAWING TITLE:
PARKING SHED-1(b)
FOOTING AND PEDESTAL DETAIL

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-09
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



TYPICAL PLAN OF PARKING SHED-1(b) (30'X32')

ROOF PROJECTION

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

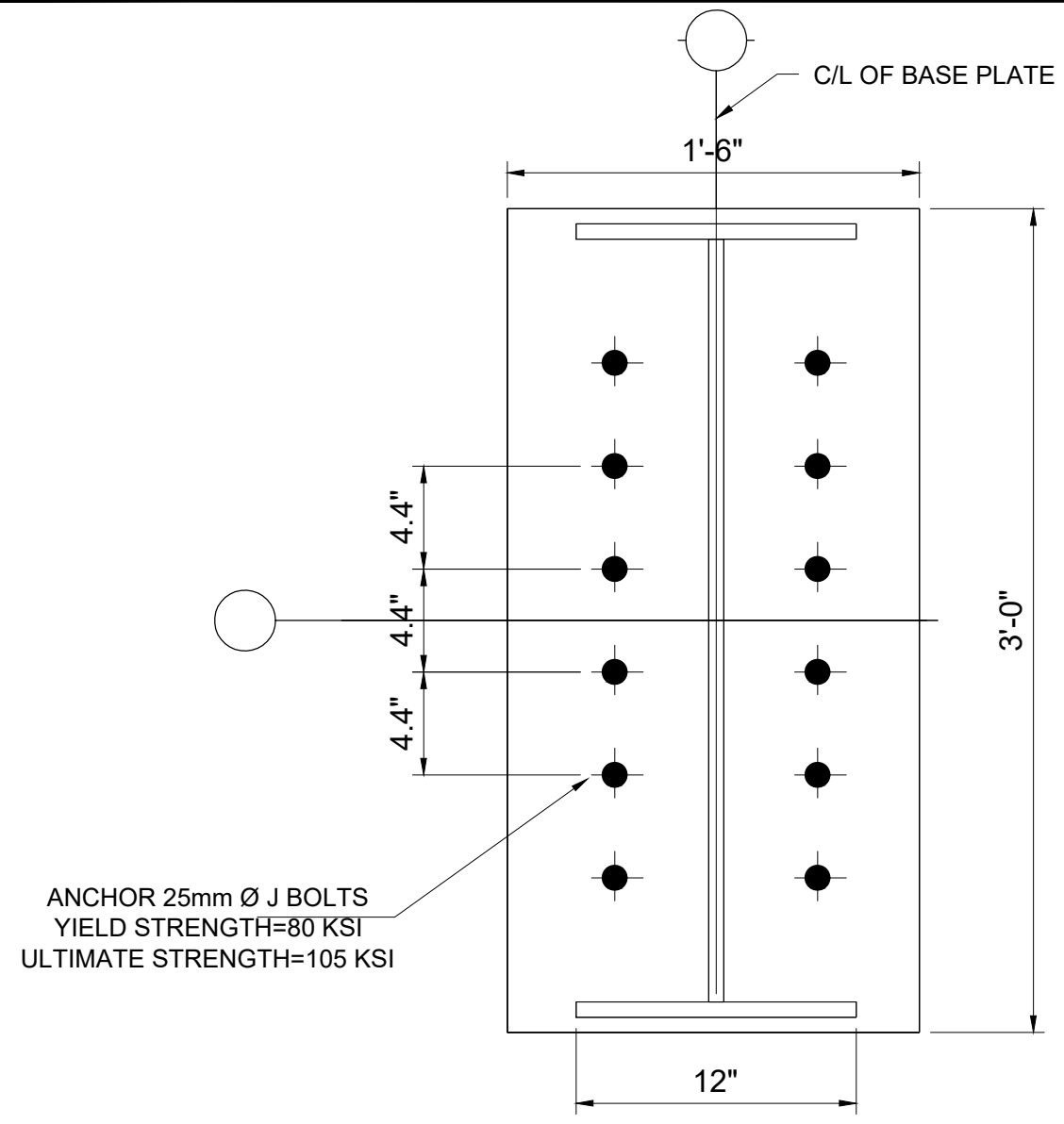
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 255

DRAWING TITLE:
PARKING SHED-1(b)
ANCHOR BOLT PLAN

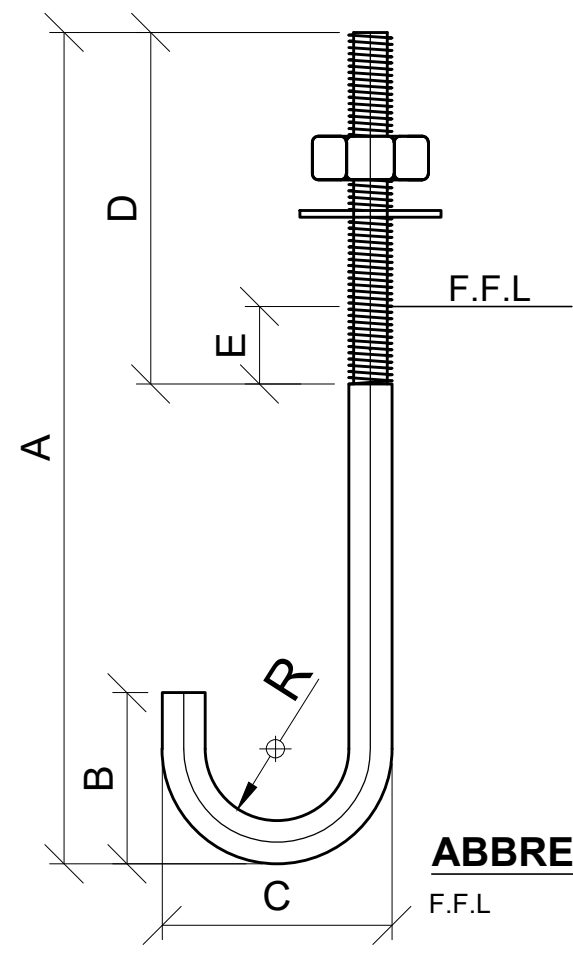
REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-10
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



TYPICAL DETAIL - BP-1



ABBREVIATION:
F.F.L - FINISH FLOOR LEVEL

DIMENSIONAL PROPERTIES											
BOLT			WEIGHT (Kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	RADIUS "R" (mm)	TOTAL STRAIGHT LENGTH (mm)	EMBEDMENT STRAIGHT LENGTH (mm)
QTY.	NOMINAL DIAMETER	THREAD PITCH									
12	M25	---	--	---	--	--	--	--	--	--	--

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

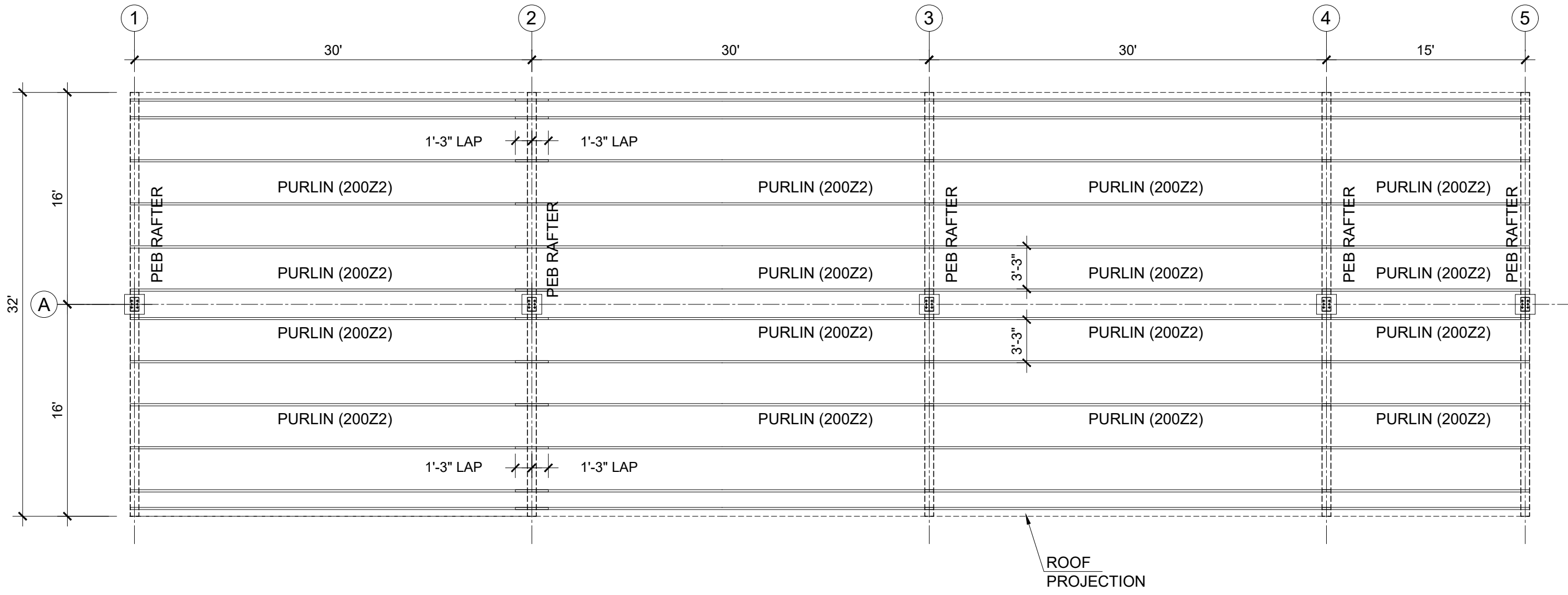
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 256

DRAWING TITLE:
**TYPICAL ANCHOR BOLTS
 DETAIL SHED-01(b)**

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-11
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



**TYPICAL TOP MAIN FRAMING PLAN FOR ROOF PURLINS
OF PARKING SHED-1(b) (30'X32')**

CLIENT:

**PUNJAB MUNICIPAL DEVELOPMENT
FUND COMPANY
(PMDFC)**

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

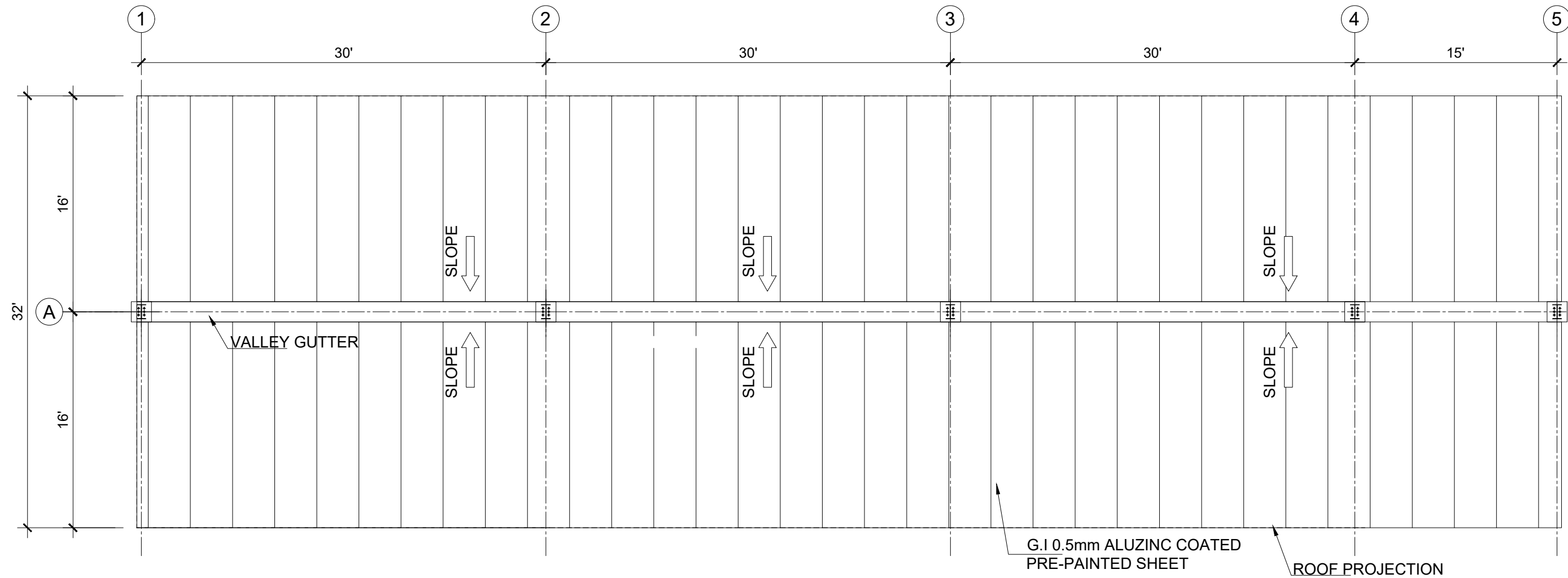
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 257

DRAWING TITLE:
PARKING SHED-1(b)
ROOF FRAMING LAYOUT PLAN

REV.	DATE	DESCRIPTION
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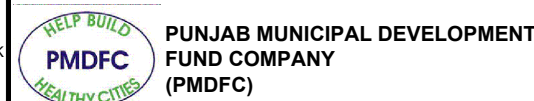
DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-12
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



**TYPICAL TOP MAIN FRAMING PLAN FOR ROOF SHEETING
OF PARKING SHED-1 (b) (30'X32')**

CLIENT:



**PUNJAB MUNICIPAL DEVELOPMENT
FUND COMPANY
(PMDFC)**

CONSULTANTS:



JERS CONSULTANCY (PVT) LTD
24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
Tel: +92 42 35113123, +92 42 35113124
Fax: +92 42 35113125
E-mail: info@jers.com.pk, mail@jers.com.pk
Web: http://www.jers.com.pk

PROJECT:

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 258**

DRAWING TITLE:

**PARKING SHED-1(b)
ROOF SHEETING LAYOUT PLAN**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

MUNIR

CHECKED BY:

HASEEB

DATE:

FEB, 2023

DRAWING NO:

ST-13

SCALE:

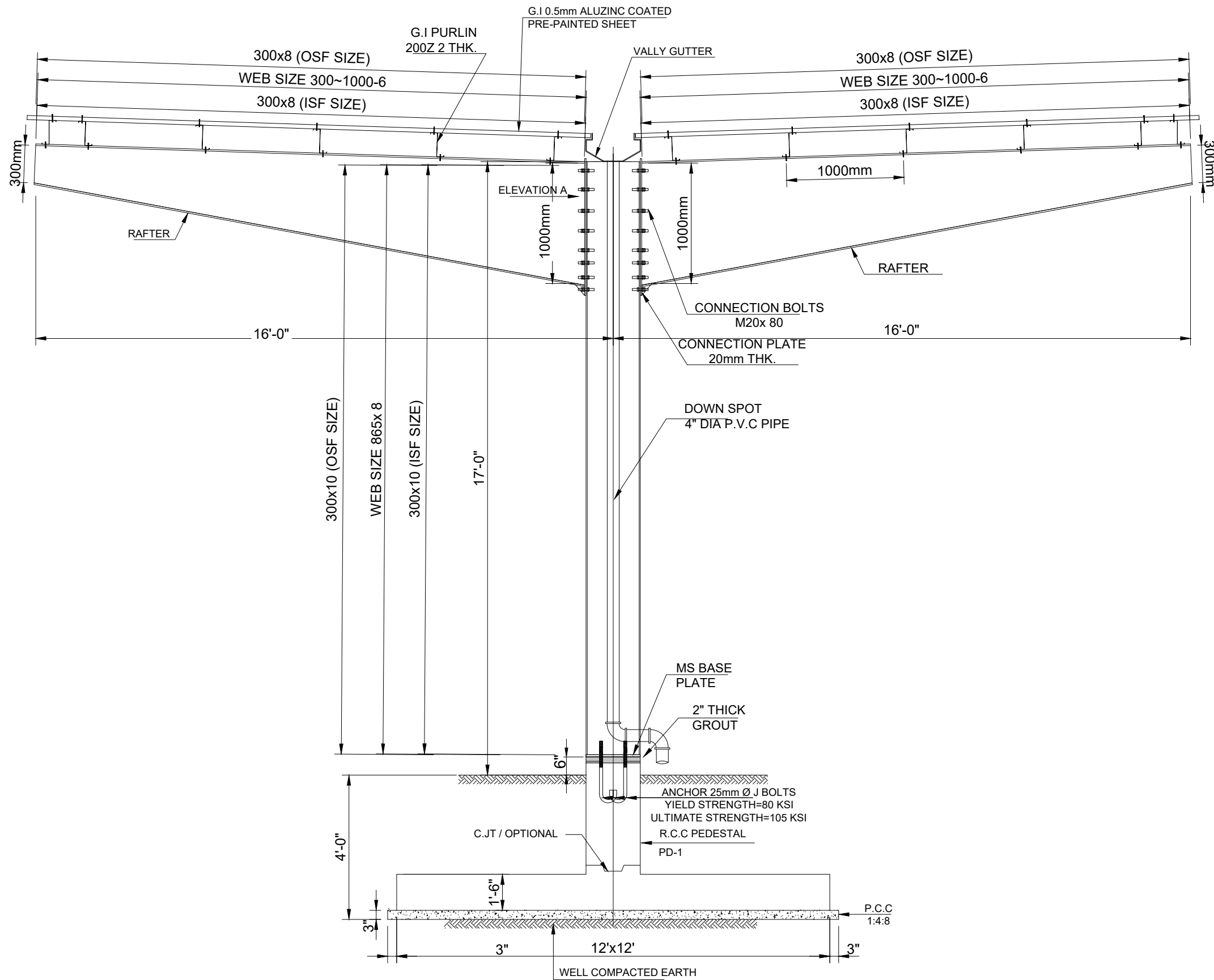
UNIT=FEET

SHEET:

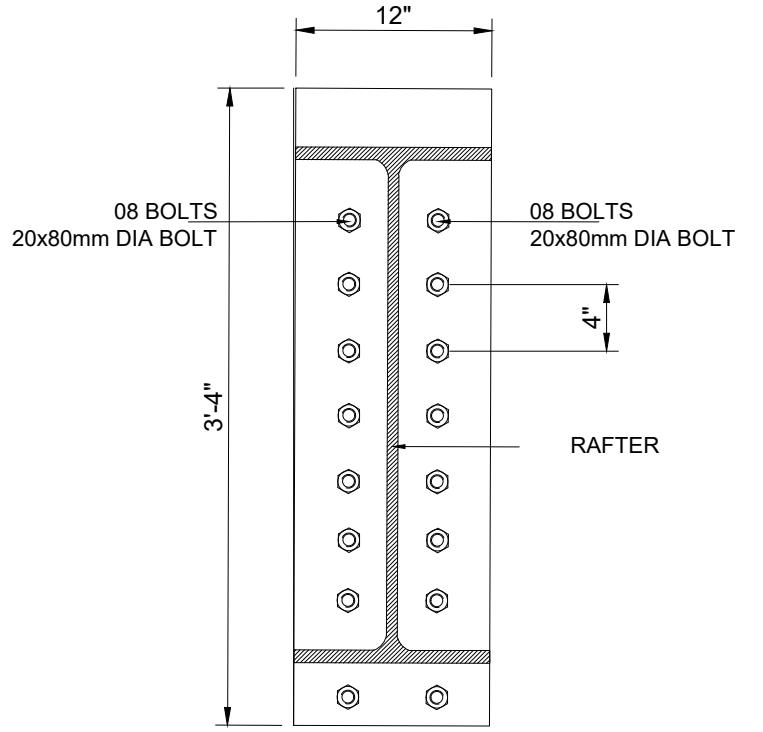
1 OF 1

JOB NO:



488-01

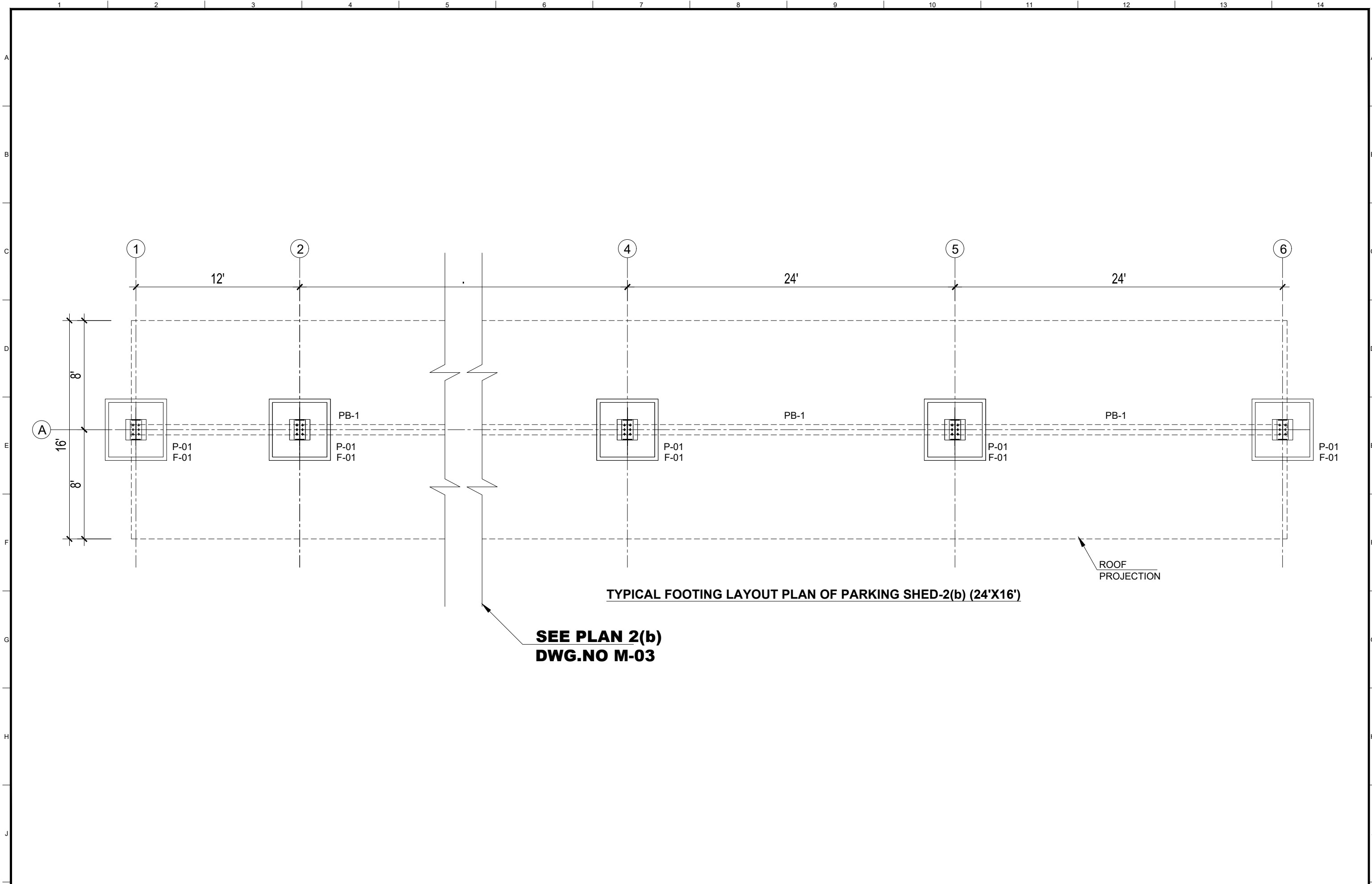


**FRAMING CROSS -SECTION B-B
OF PARKING SHED-1(a) (32'x30')**



**ELEVATION-A
PLATE 12mm THICK**



CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 259	DRAWING TITLE: PARKING SHED-1(b) TYPICAL CROSS SECTION	DRAWN BY: MUNIR	DRAWING NO: ST-14
				CHECKED BY: M.HASEEB	
REV. DATE DESCRIPTION				DATE: FEB,2023	JOB NO: 488-01

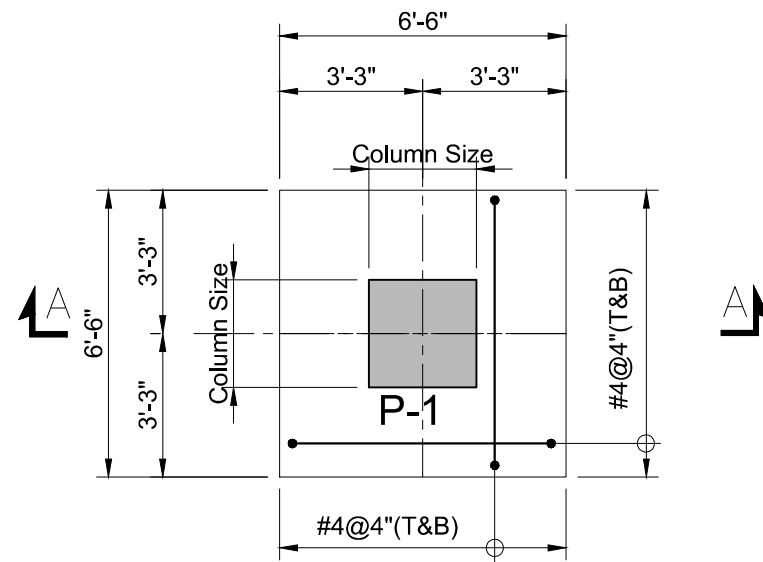


TYPICAL FOOTING LAYOUT PLAN OF PARKING SHED-2(b) (24'X16')

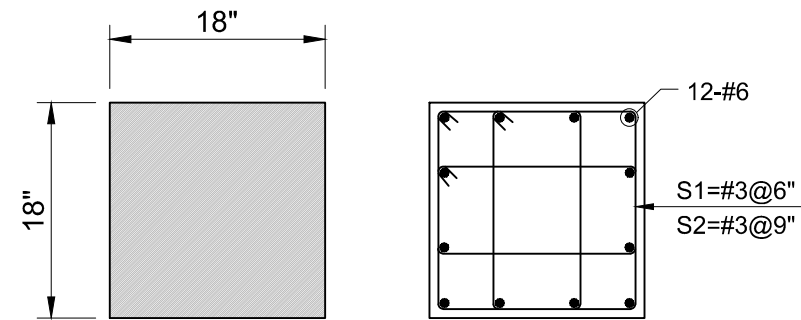
SEE PLAN 2(b)
DWG.NO M-03

ROOF
PROJECTION

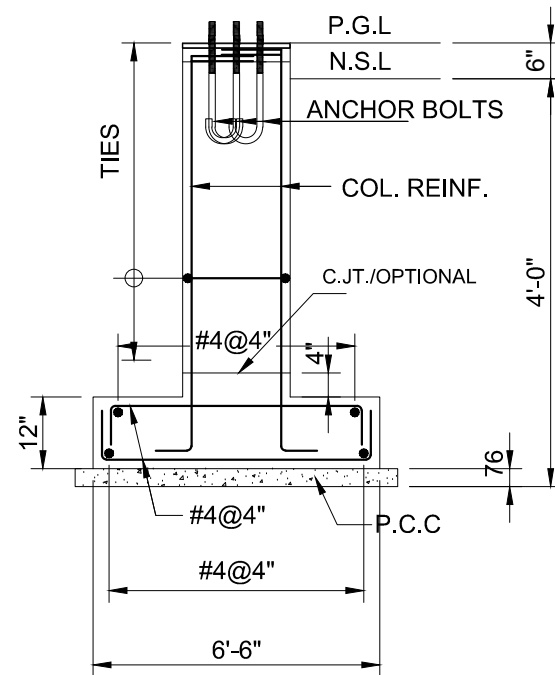
CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 260	DRAWING TITLE: PARKING SHED-2(b) FOOTING LAYOUT PLAN	REV. DATE DESCRIPTION	DRAWN BY: MUNIR	DRAWING NO: ST-15
				- - -	CHECKED BY: HASEEB	
				REV. DATE DESCRIPTION	DATE: FEB,2023	



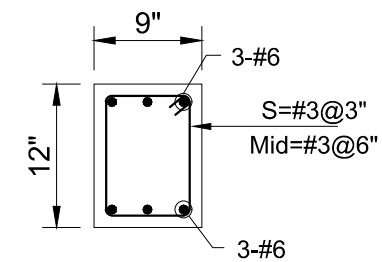
FOOTING F-1
SCALE: 3/8"=1'-0"



PEDESTAL PD-1
SCALE: 3/4"=1'-0"



SECTION A-A
SCALE: 3/8"=1'-0"



BEAM PB-1
SCALE: 3/4"=1'-0"

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

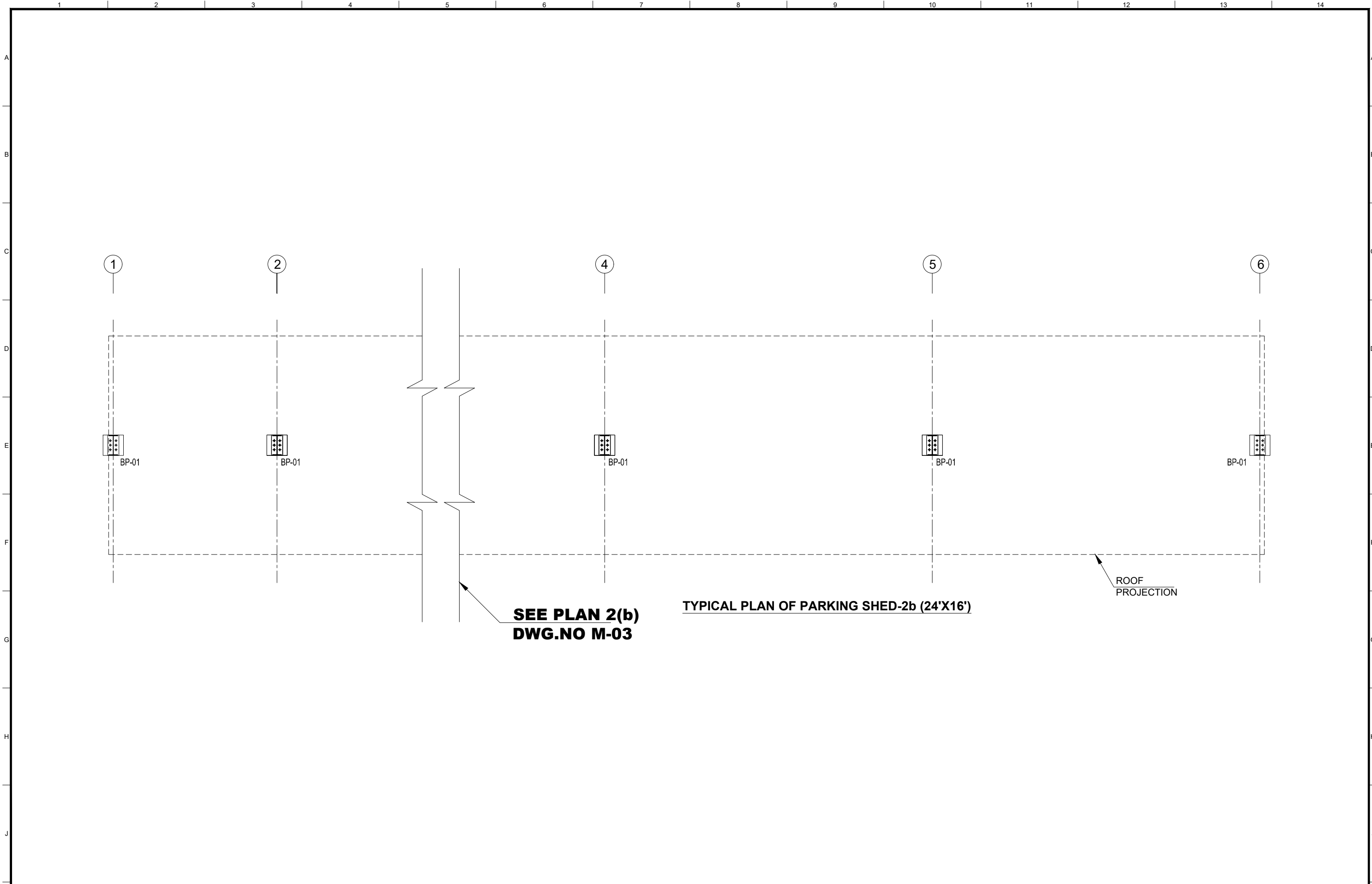
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 261

DRAWING TITLE:
PARKING SHED-2(b)
FOOTING DETAIL

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-16
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



**SEE PLAN 2(b)
DWG.NO M-03**

TYPICAL PLAN OF PARKING SHED-2b (24'X16')

ROOF
PROJECTION

CLIENT:



**PUNJAB MUNICIPAL DEVELOPMENT
FUND COMPANY
(PMDFC)**

CONSULTANTS:



JERS CONSULTANCY (PVT) LTD
24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
Tel: +92 42 35113123, +92 42 35113124
Fax: +92 42 35113125
E-mail: info@jers.com.pk, mail@jers.com.pk
Web: http://www.jers.com.pk

PROJECT:

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 262**

DRAWING TITLE:

**PARKING SHED-2(b)
ANCHOR BOLT LAYOUT PLAN**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

MUNIR

CHECKED BY:

HASEEB

DATE:

FEB, 2023

DRAWING NO:

ST-17

SCALE:

UNIT=FEET

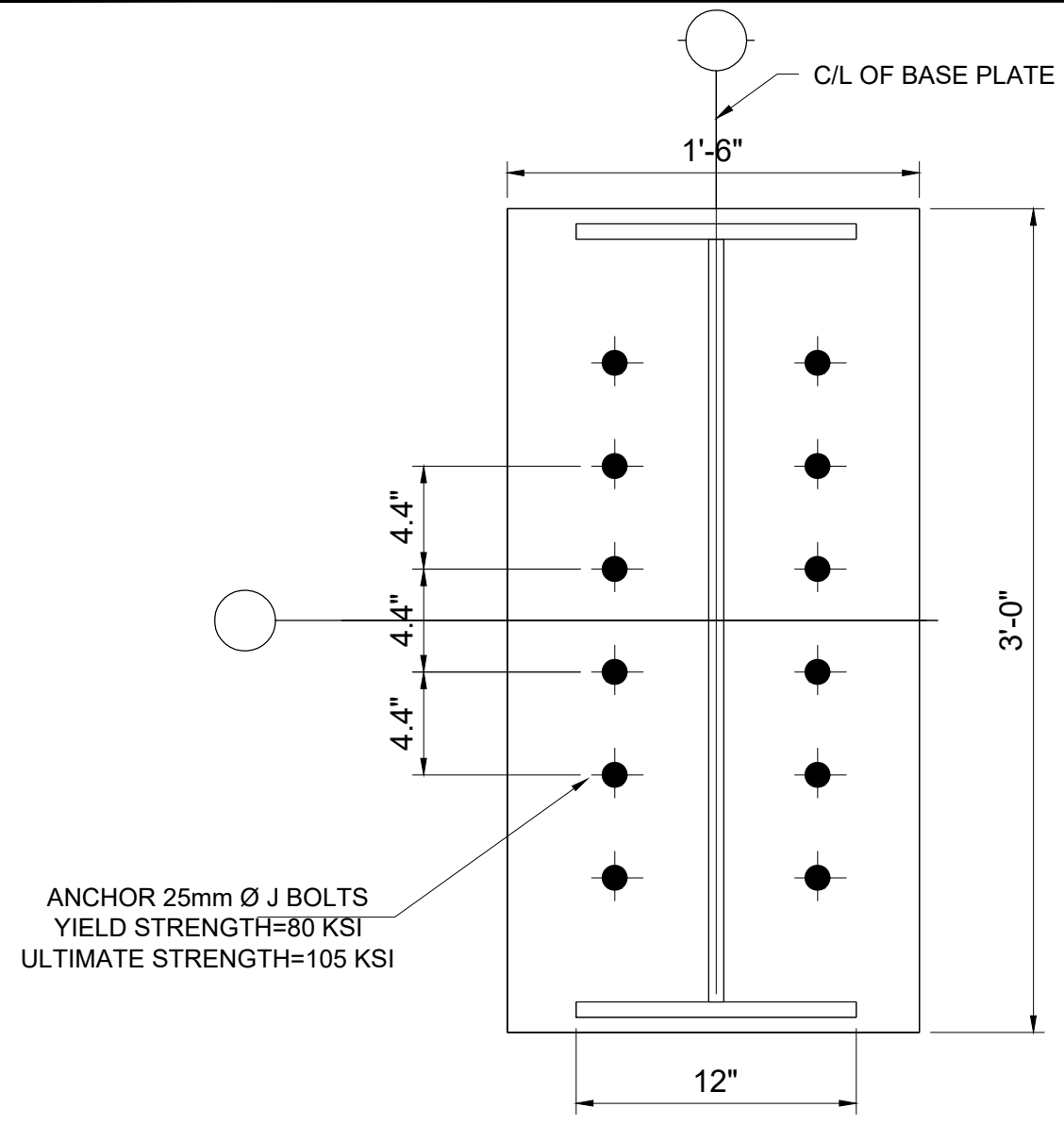
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SHEET:

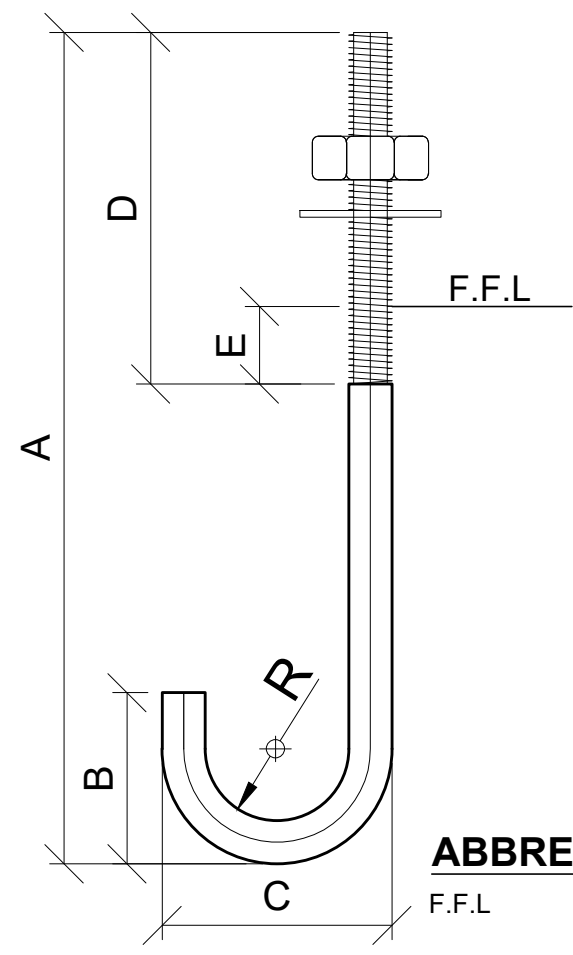
1 OF 1

JOB NO:

488-01



TYPICAL DETAIL - BP-1



ABBREVIATION:
F.F.L - FINISH FLOOR LEVEL

DIMENSIONAL PROPERTIES											
BOLT			WEIGHT (Kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	RADIUS "R" (mm)	TOTAL STRAIGHT LENGTH (mm)	EMBEDMENT STRAIGHT LENGTH (mm)
QTY.	NOMINAL DIAMETER	THREAD PITCH									
12	M25	---	--	---	--	--	--	--	--	--	--

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

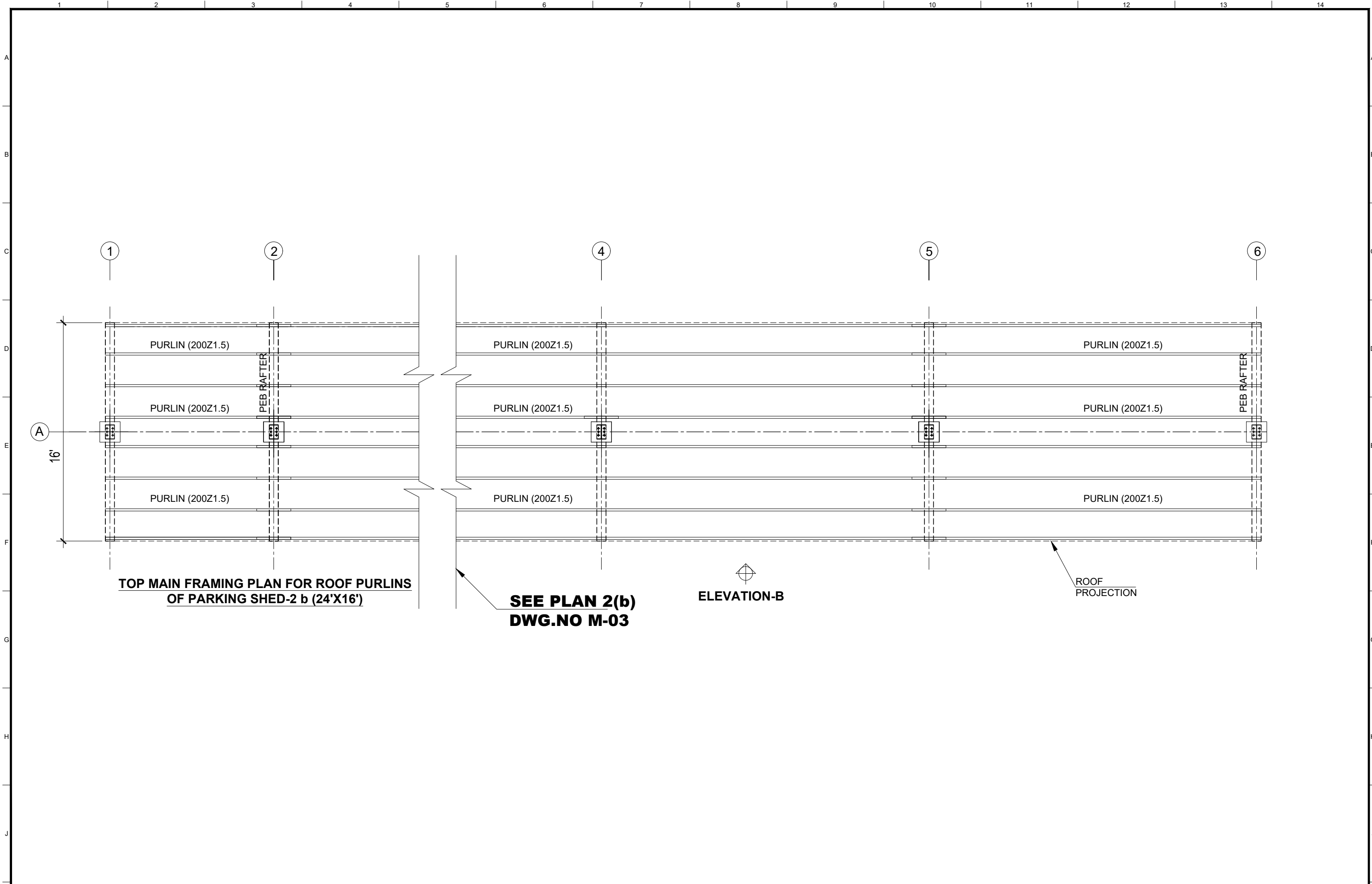
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 263



DRAWING TITLE:
**TYPICAL ANCHOR BOLTS
 DETAIL SHED-02(b)**

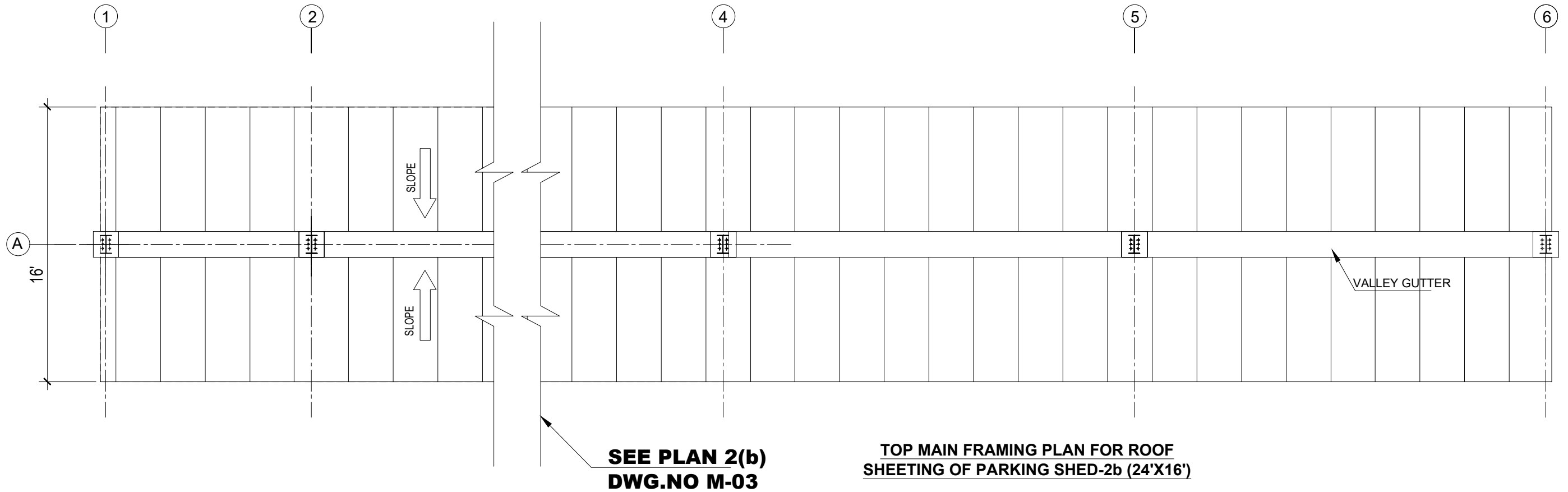
REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-18
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 264	DRAWING TITLE: PARKING SHED-2(b) ROOF FRAMING LAYOUT PLAN	DRAWN BY: MUNIR	DRAWING NO: ST-19
				CHECKED BY: HASEEB	
				DATE: FEB, 2023	JOB NO: 488-01
REV.	DATE	DESCRIPTION			



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CONSULTANTS:

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 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 265

DRAWING TITLE:
PARKING SHED-2(b) ROOF SHEETING LAYOUT PLAN

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

DRAWN BY:
MUNIR

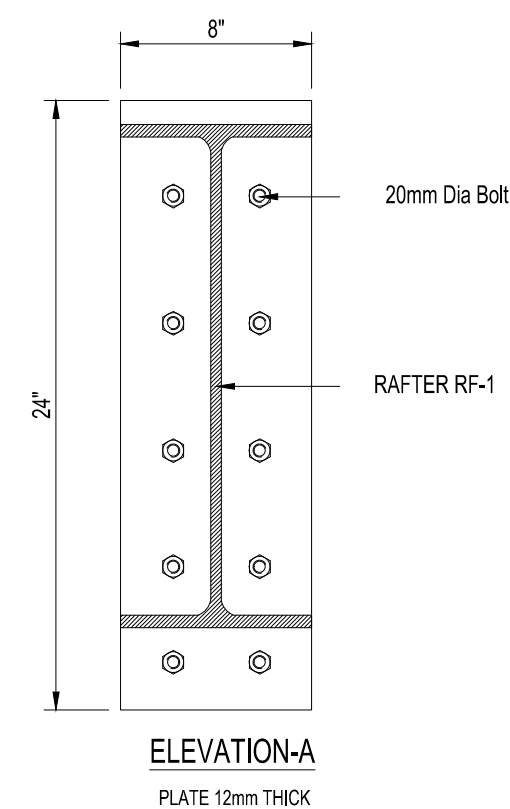
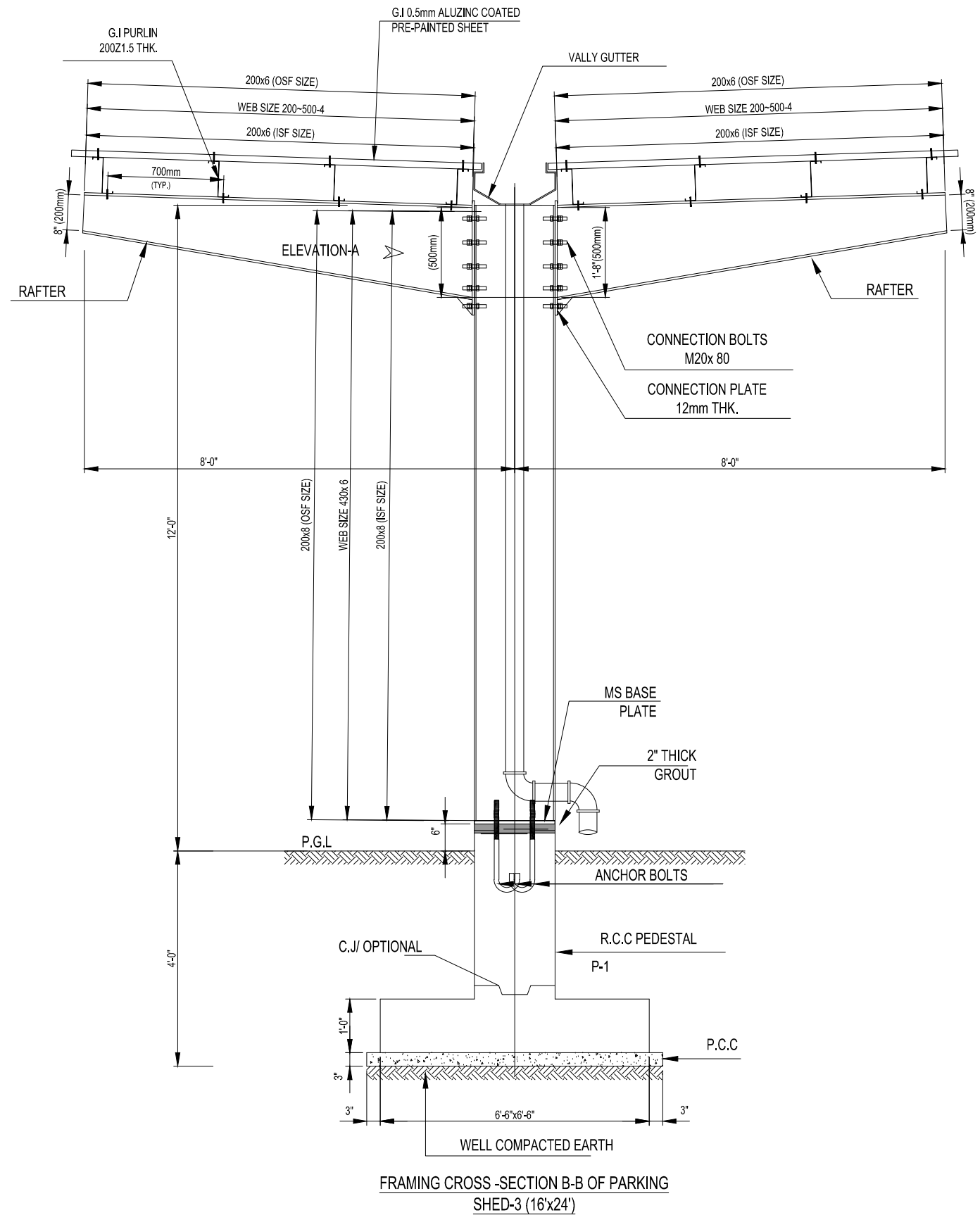
CHECKED BY:
HASEEB

DATE:
FEB,2023

DRAWING NO:
ST-20



SCALE:
UNIT=FEET

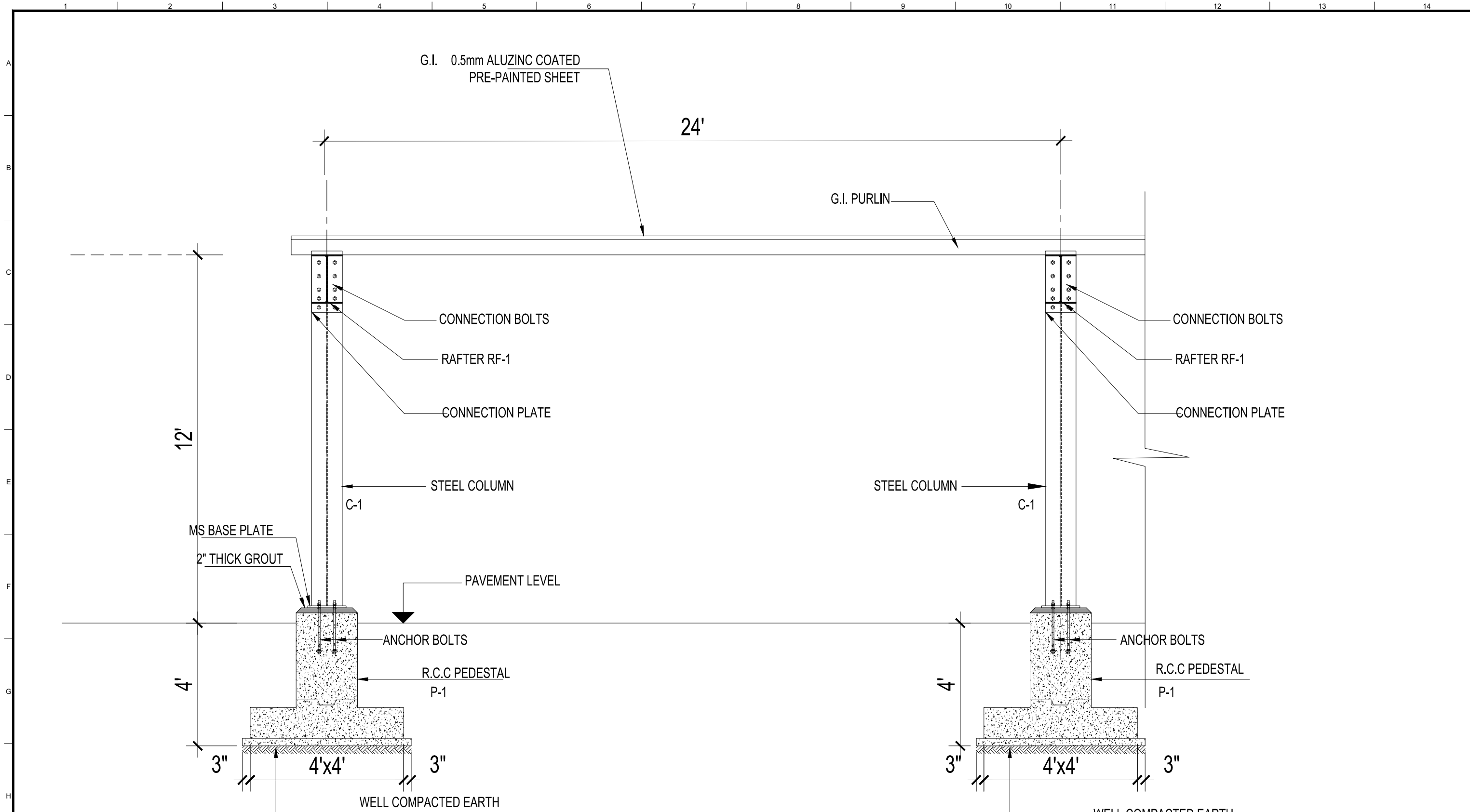
SHEET:
1 OF 1
JOB NO:
488-01



FRAMING CROSS-SECTION B-B OF PARKING SHED-3 (16'x24')

ELEVATION-A
PLATE 12mm THICK

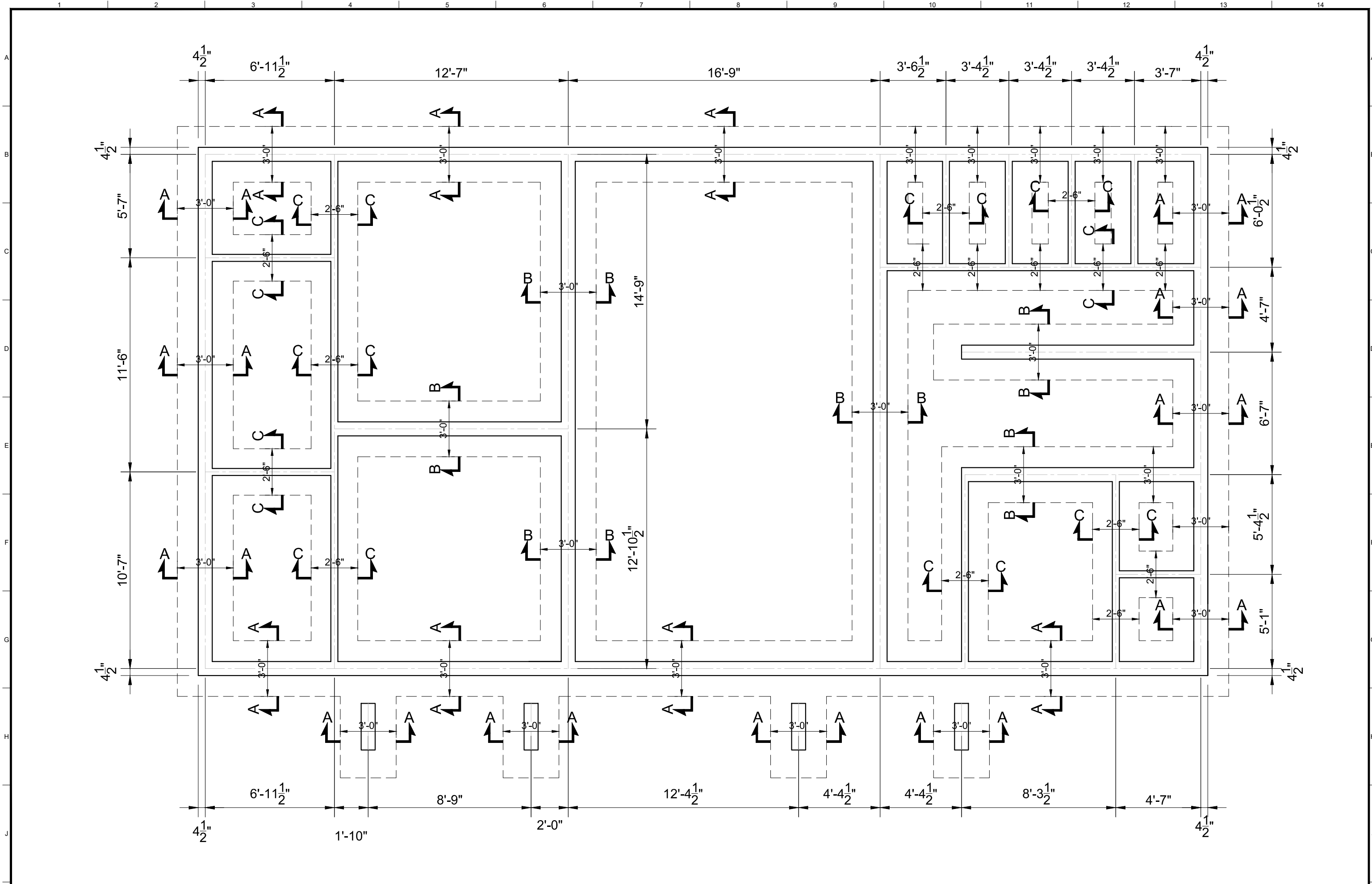
CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 266	DRAWING TITLE: PARKING SHED-2(b) TYPICAL CROSS SECTION	DRAWN BY: MUNIR	DRAWING NO: ST-21
				CHECKED BY: HASEEB	
REV. DATE DESCRIPTION				DATE: FEB, 2023	JOB NO: 488-01



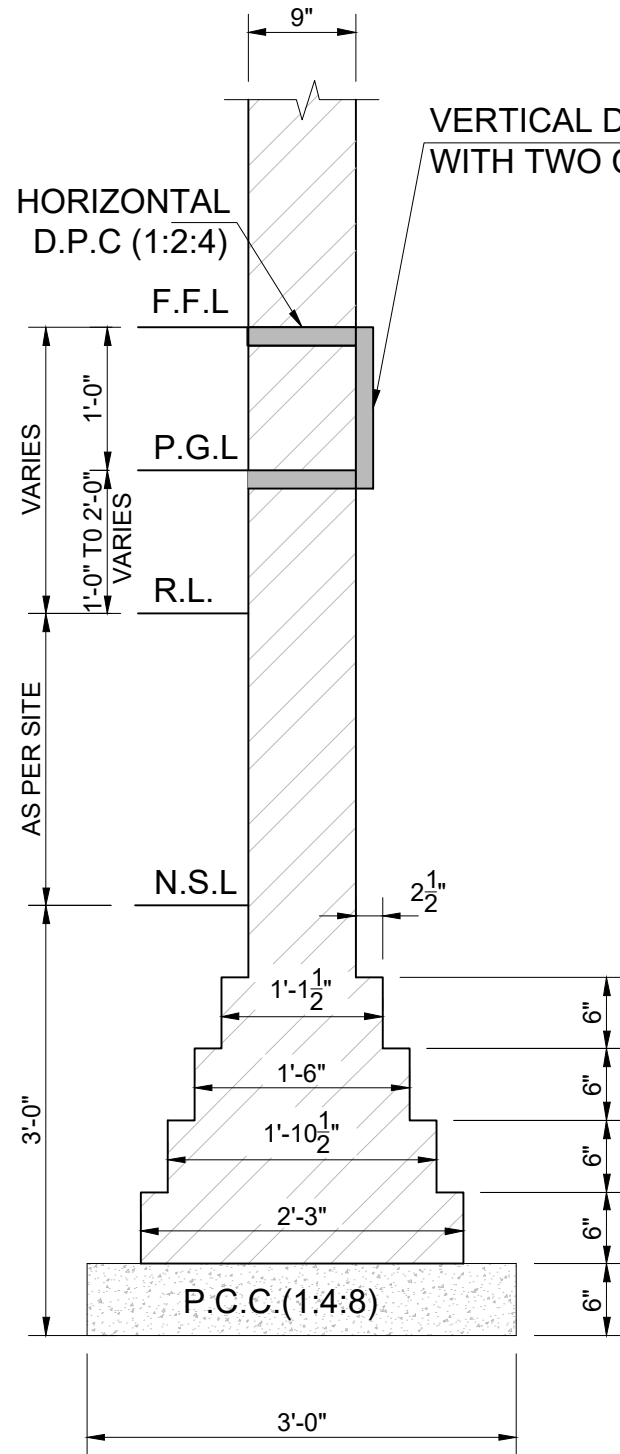
2 ELEVATION

CLIENT: PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS: JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 267	DRAWING TITLE: PARKING SHED-2(b) TYPICAL ELEVATION	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	REV.	DATE	DESCRIPTION										DRAWN BY: MUNIR CHECKED BY: HASEEB DATE: FEB, 2023	DRAWING NO: ST-22 SCALE: UNIT=FEET SHEET: 1 OF 1 JOB NO: 488-01
REV.	DATE	DESCRIPTION																

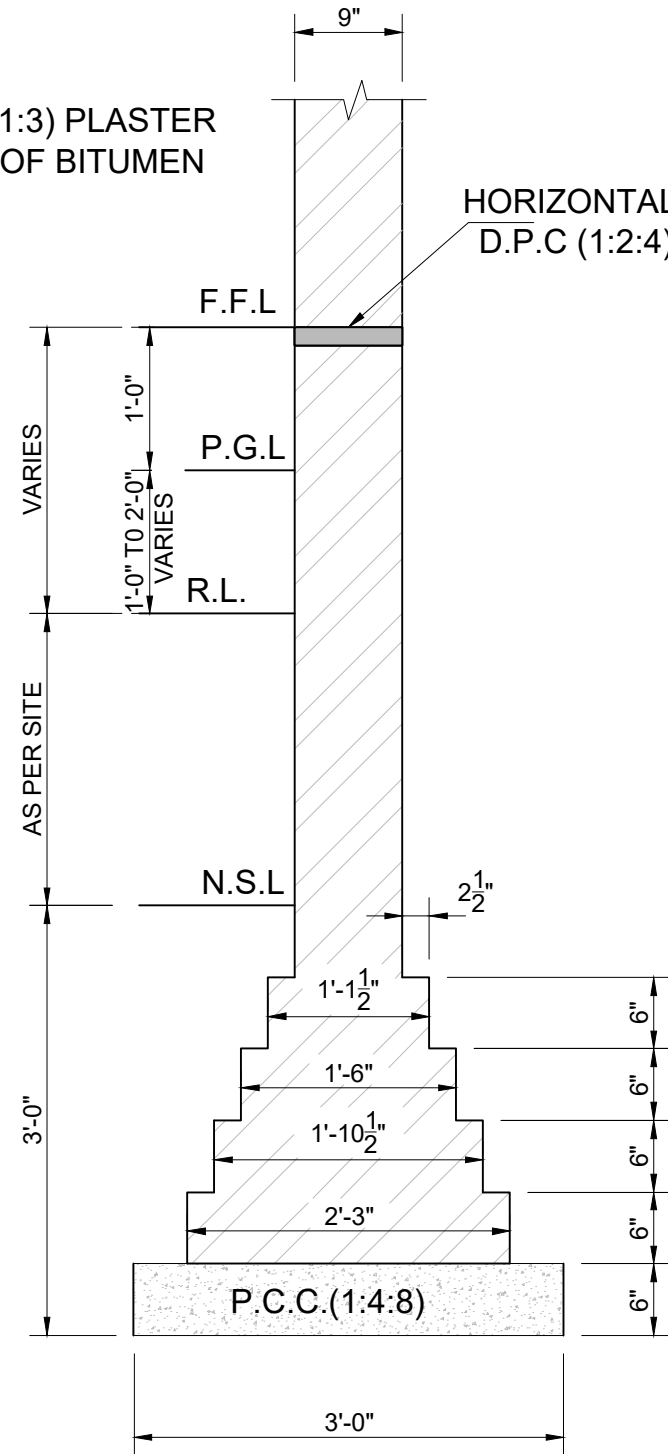
ADMINISTRATIVE BLOCK STRUCTURE



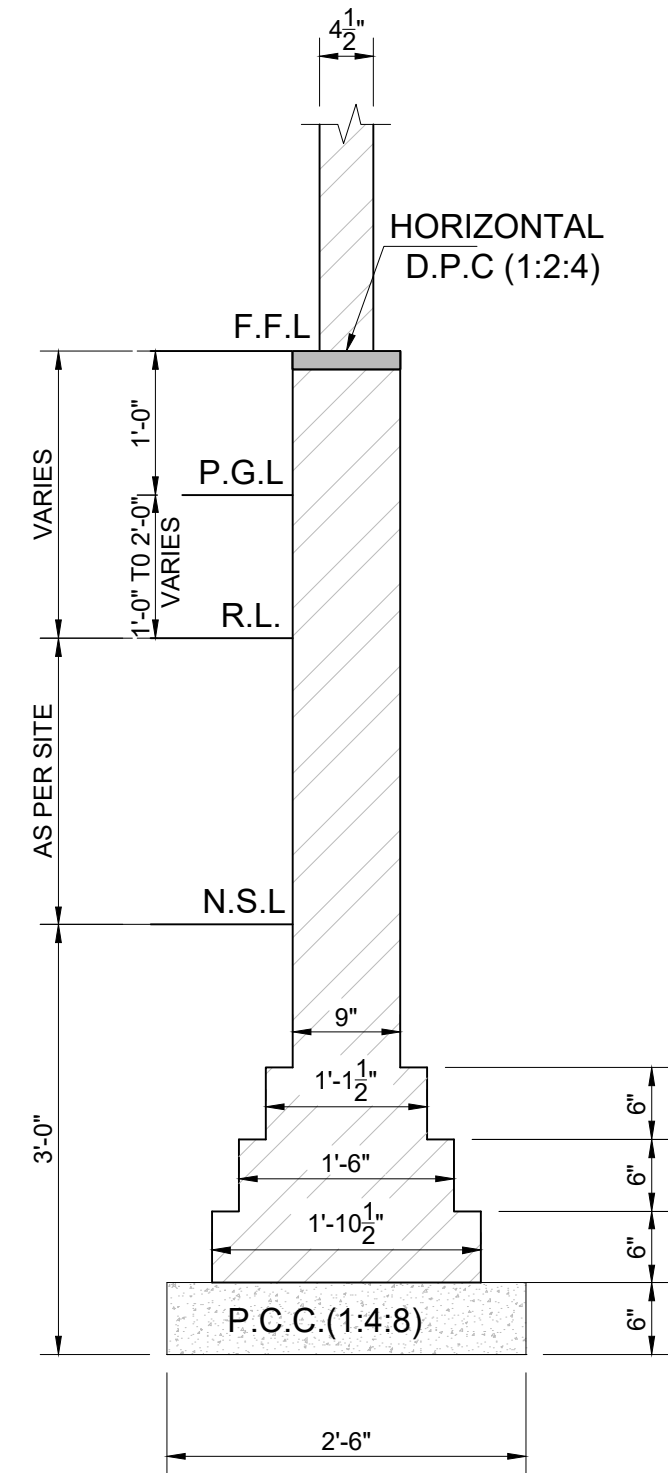
<p>CLIENT:</p> <p>PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)</p>	<p>CONSULTANTS:</p> <p>JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</p>	<p>PROJECT:</p> <p align="center">PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 269</p>	<p>DRAWING TITLE:</p> <p align="center">ADMINISTRATIVE BLOCK FOUNDATION LAYOUT PLAN</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 10%;">REV.</td> <td style="width: 10%;">DATE</td> <td style="width: 80%;">DESCRIPTION</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	DATE	DESCRIPTION													<p>DRAWN BY:</p> <p align="center">MUNIR</p> <p>CHECKED BY:</p> <p align="center">HASEEB</p> <p>DATE:</p> <p align="center">FEB, 2023</p>	<p>DRAWING NO:</p> <p align="center">ST-23</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SCALE:</td> <td style="width: 50%;">SHEET:</td> </tr> <tr> <td>UNIT=FEET</td> <td>1 OF 1</td> </tr> <tr> <td> </td> <td>JOB NO:</td> </tr> <tr> <td> </td> <td>488-01</td> </tr> </table>	SCALE:	SHEET:	UNIT=FEET	1 OF 1		JOB NO:		488-01
REV.	DATE	DESCRIPTION																											
SCALE:	SHEET:																												
UNIT=FEET	1 OF 1																												
	JOB NO:																												
	488-01																												



SECTION A-A
SCALE: 3/4" = 1'-0"



SECTION B-B
SCALE: 3/4" = 1'-0"



SECTION C-C
SCALE: 3/4" = 1'-0"

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

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 E-mail: info@jers.com.pk, mail@jers.com.pk
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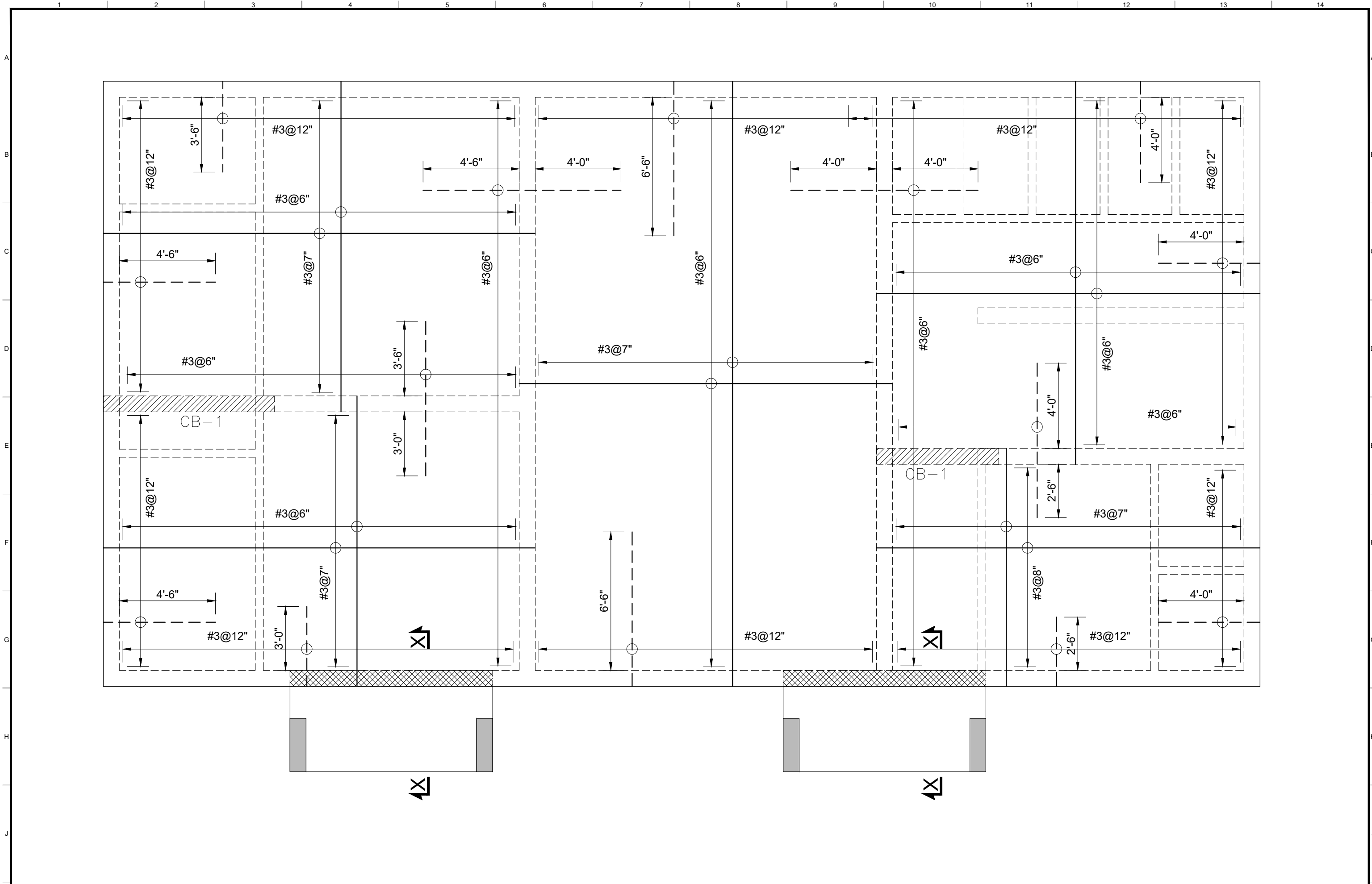
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 270


DRAWING TITLE:
ADMINISTRATIVE BLOCK FOOTING SECTION

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-24
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

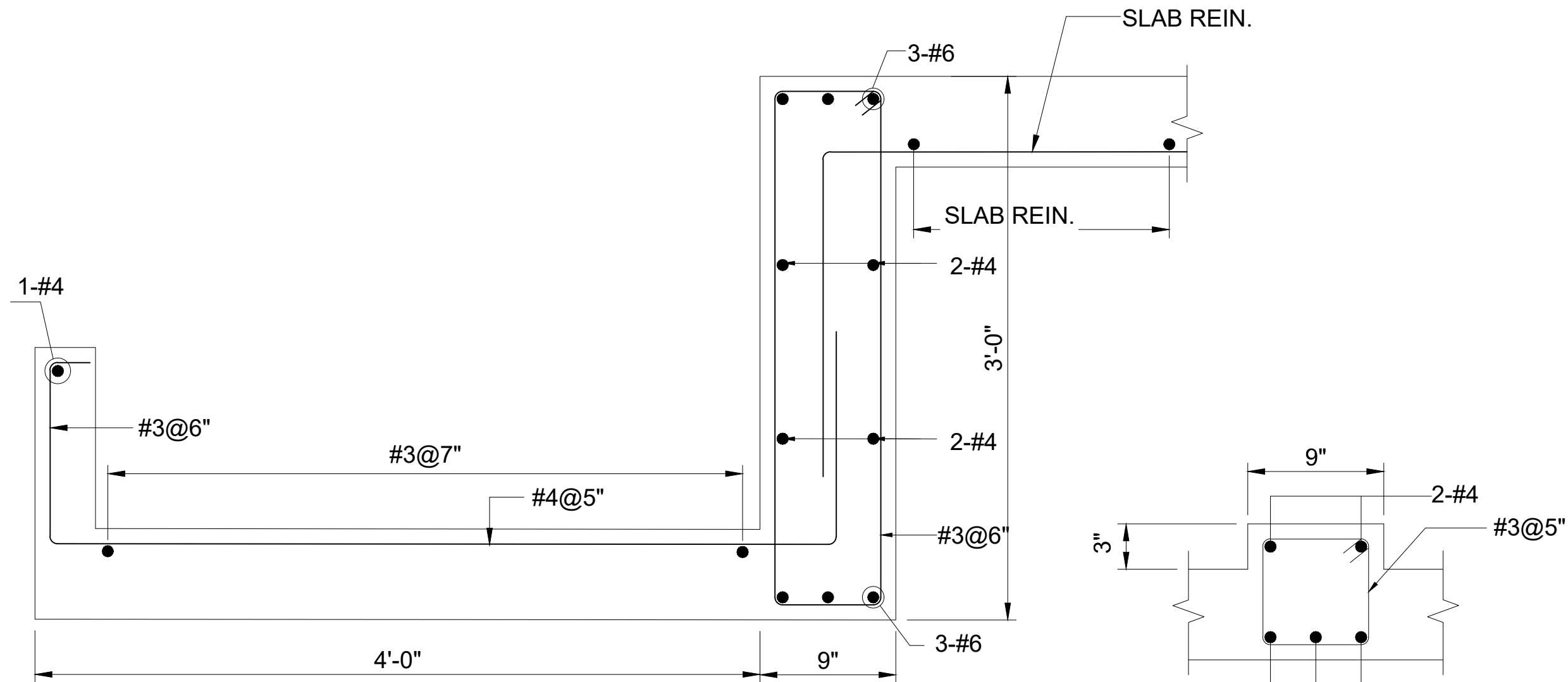
CONSULTANTS:
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 Tel: +92 42 35113123, +92 42 35113124
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 271

DRAWING TITLE:
REINFORCEMENT SLAB LAYOUT
ADMINISTRATIVE BLOCK



REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

DRAWN BY: MUNIR	DRAWING NO: ST-25
CHECKED BY: HASEEB	
DATE: FEB, 2023	SCALE: -
	SHEET: OF 1
	JOB NO: 488-01

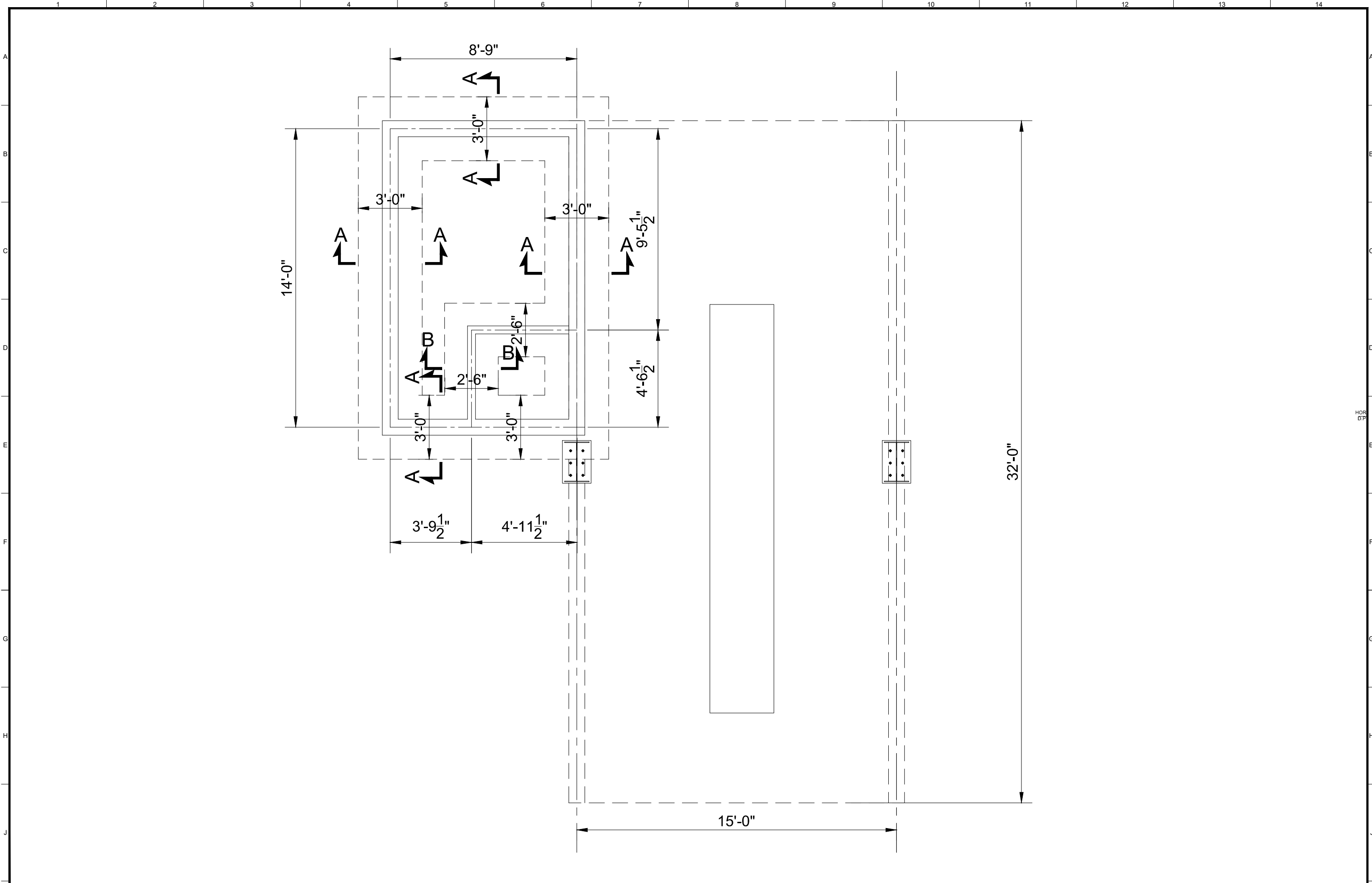



SEC X-X
SCALE: 1½"=1'-0"

CB-1

CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 272	DRAWING TITLE: BEAM SECTION DETAIL ADMINISTRATIVE BLOCK	DRAWN BY: MUNIR	DRAWING NO: ST-26							
				CHECKED BY: HASEEB		SCALE: -	SHEET: 1 OF 1					
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REV.	DATE	DESCRIPTION										
-	-	-										

WORKSHOP STRUCTURE



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

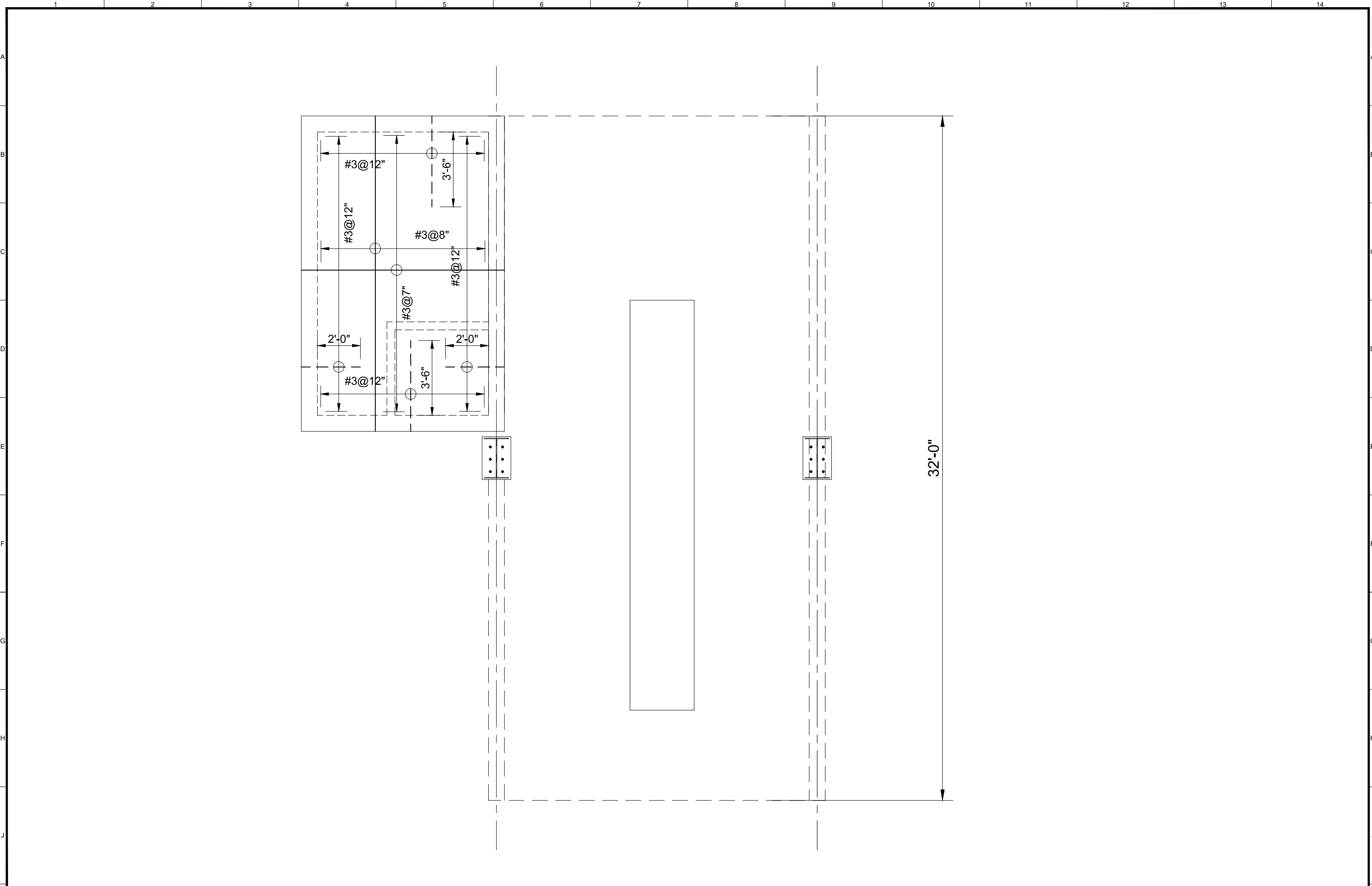
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 274


DRAWING TITLE:
WORKSHOP FOUNDATION LAYOUT PLAN

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB,2022

DRAWING NO:
ST-27
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

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 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
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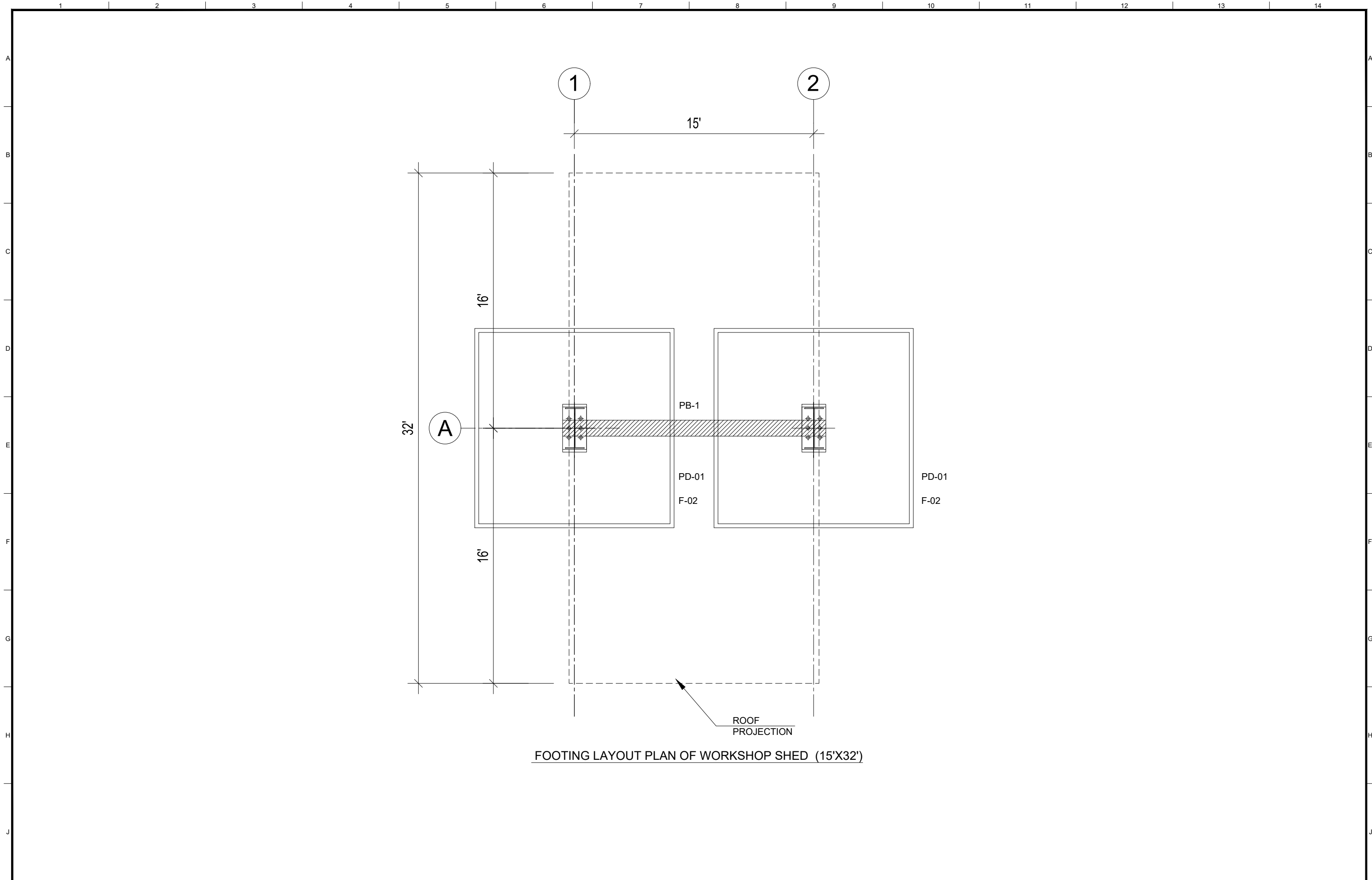
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 276

DRAWING TITLE:
WORKSHOP REINFORCEMENT LAYOUT PLAN



REV.	DATE	DESCRIPTION
-	-	-

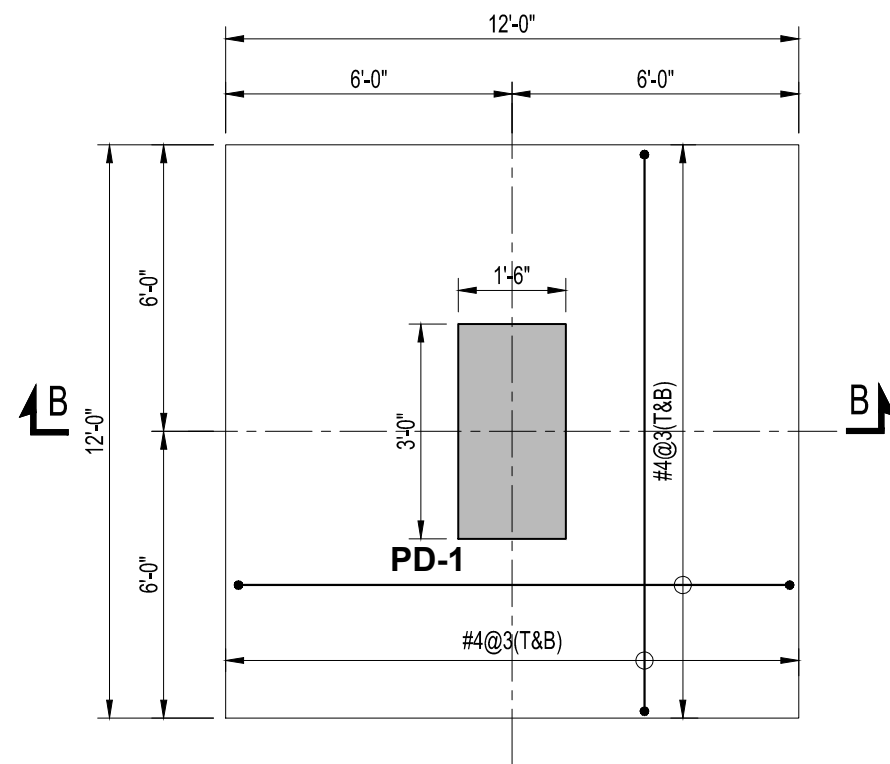
DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB,2022

DRAWING NO:
ST-29
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



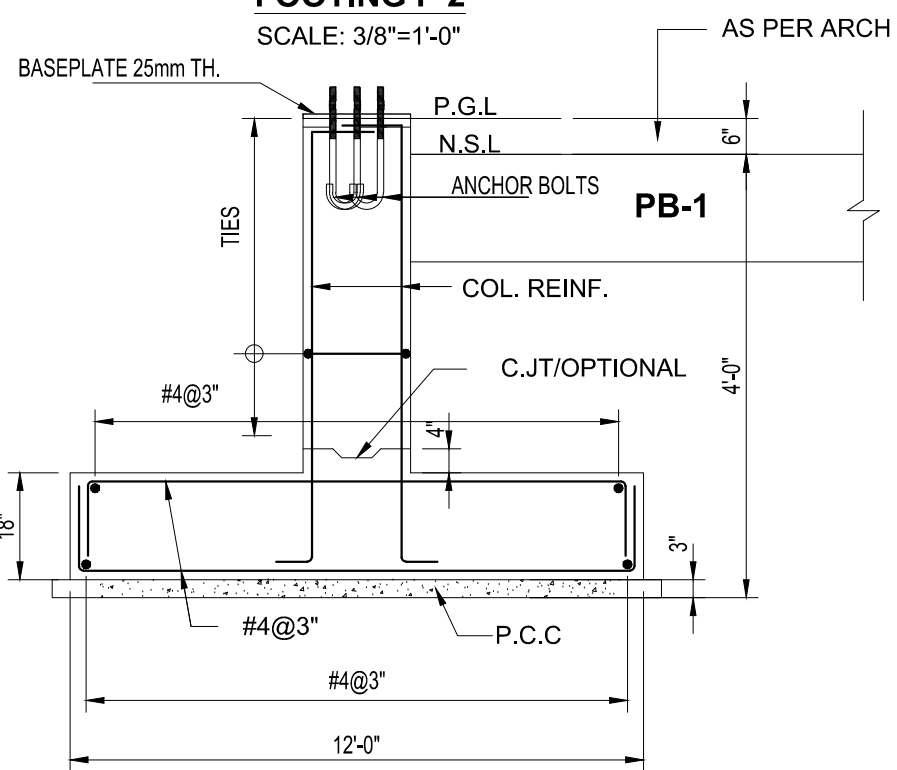
FOOTING LAYOUT PLAN OF WORKSHOP SHED (15'X32')

CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 277	DRAWING TITLE: WORKSHOP SHED FOOTING LAYOUT PLAN	DRAWN BY: MUNIR	DRAWING NO: ST-30
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REV. DATE DESCRIPTION				DATE: FEB, 2023	



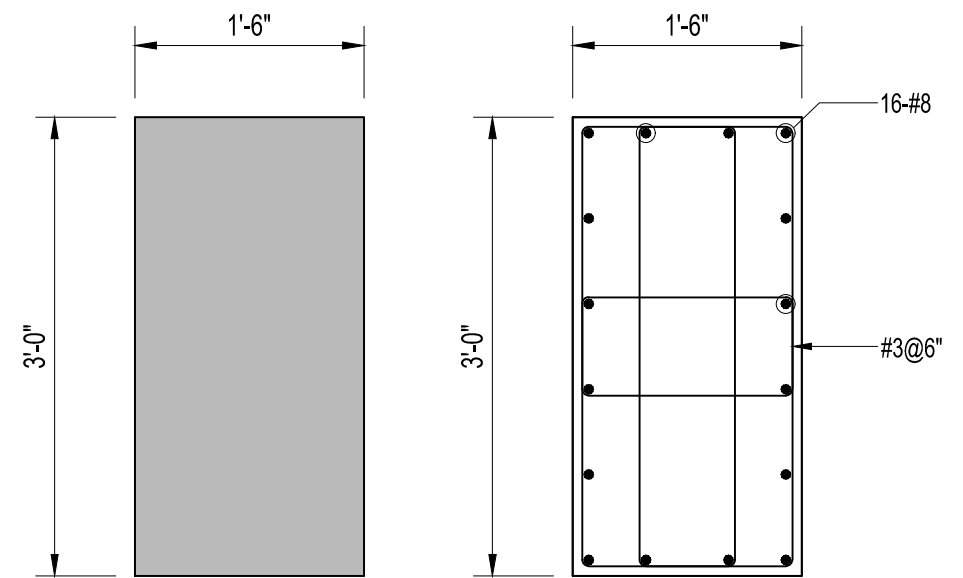
FOOTING F-2

SCALE: 3/8"=1'-0"



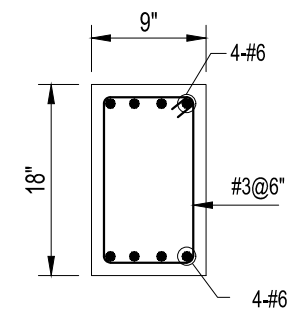
SECTION B-B

SCALE: 3/8"=1'-0"



PEDESTAL PD-1

SCALE 1:15



PLINTH BEAM PB-1

SCALE 1:15

CLIENT:



CONSULTANTS:



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PROJECT:

PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 278

DRAWING TITLE:

**WORKSHOP SHED
 FOOTING AND PEDESTAL
 DETAIL**

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
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-	-	-

DRAWN BY:

MUNIR

CHECKED BY:

HASEEB

DATE:

FEB, 2023

DRAWING NO:

ST-31

SCALE:

UNIT=FEET

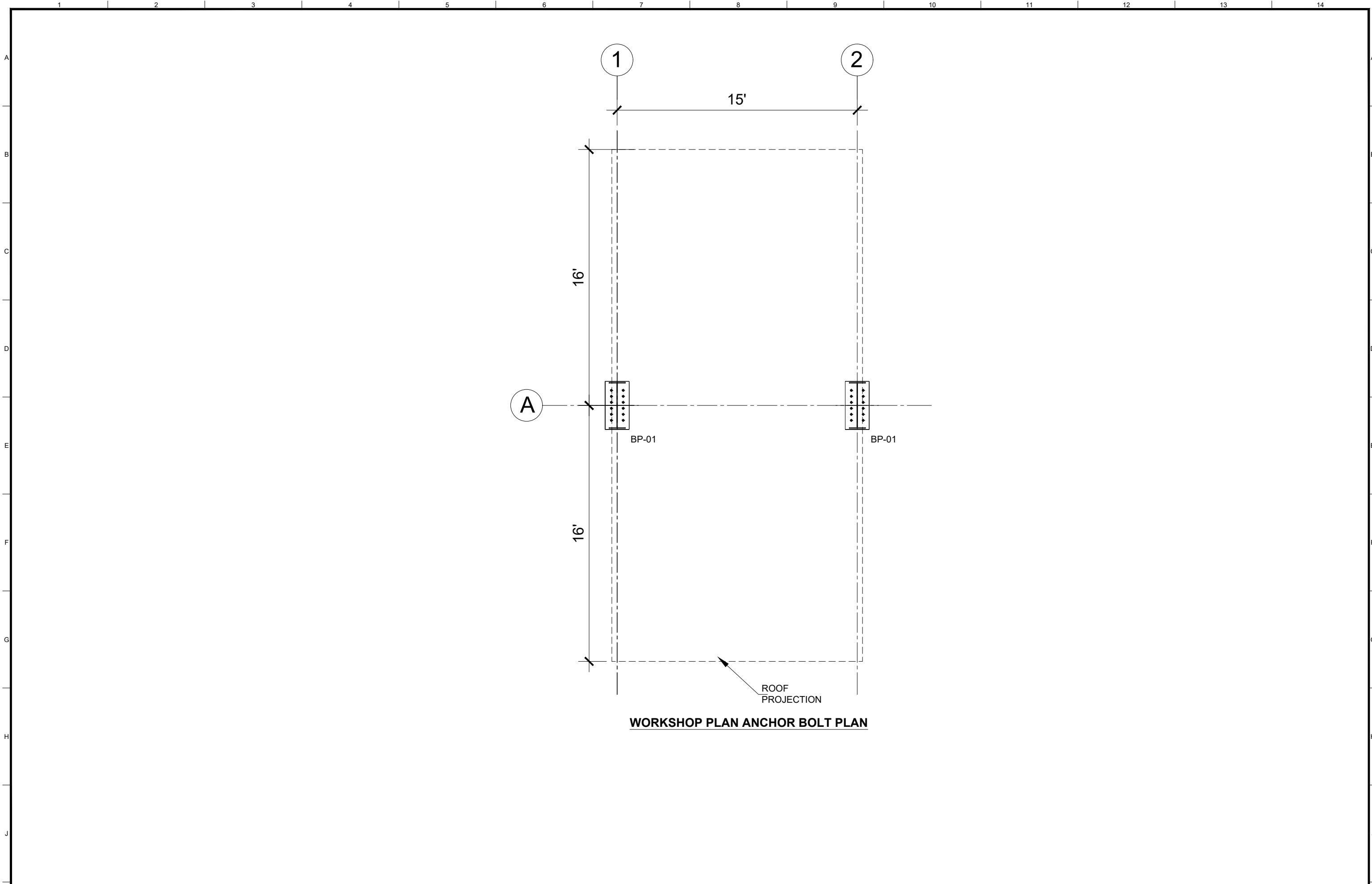
-

SHEET:

1 OF 1

JOB NO:

488-01



WORKSHOP PLAN ANCHOR BOLT PLAN

CLIENT:

**PUNJAB MUNICIPAL DEVELOPMENT
FUND COMPANY
(PMDFC)**

CONSULTANTS:



JERS CONSULTANCY (PVT) LTD
24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
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Web: http://www.jers.com.pk

PROJECT:

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 279**

DRAWING TITLE:

**WORKSHOP SHED
ANCHOR BOLT PLAN**

REV.	DATE	DESCRIPTION
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-	-	-
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-	-	-
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DRAWN BY:

MUNIR

CHECKED BY:

HASEEB

DATE:

FEB, 2023

DRAWING NO:

ST-32

SCALE:

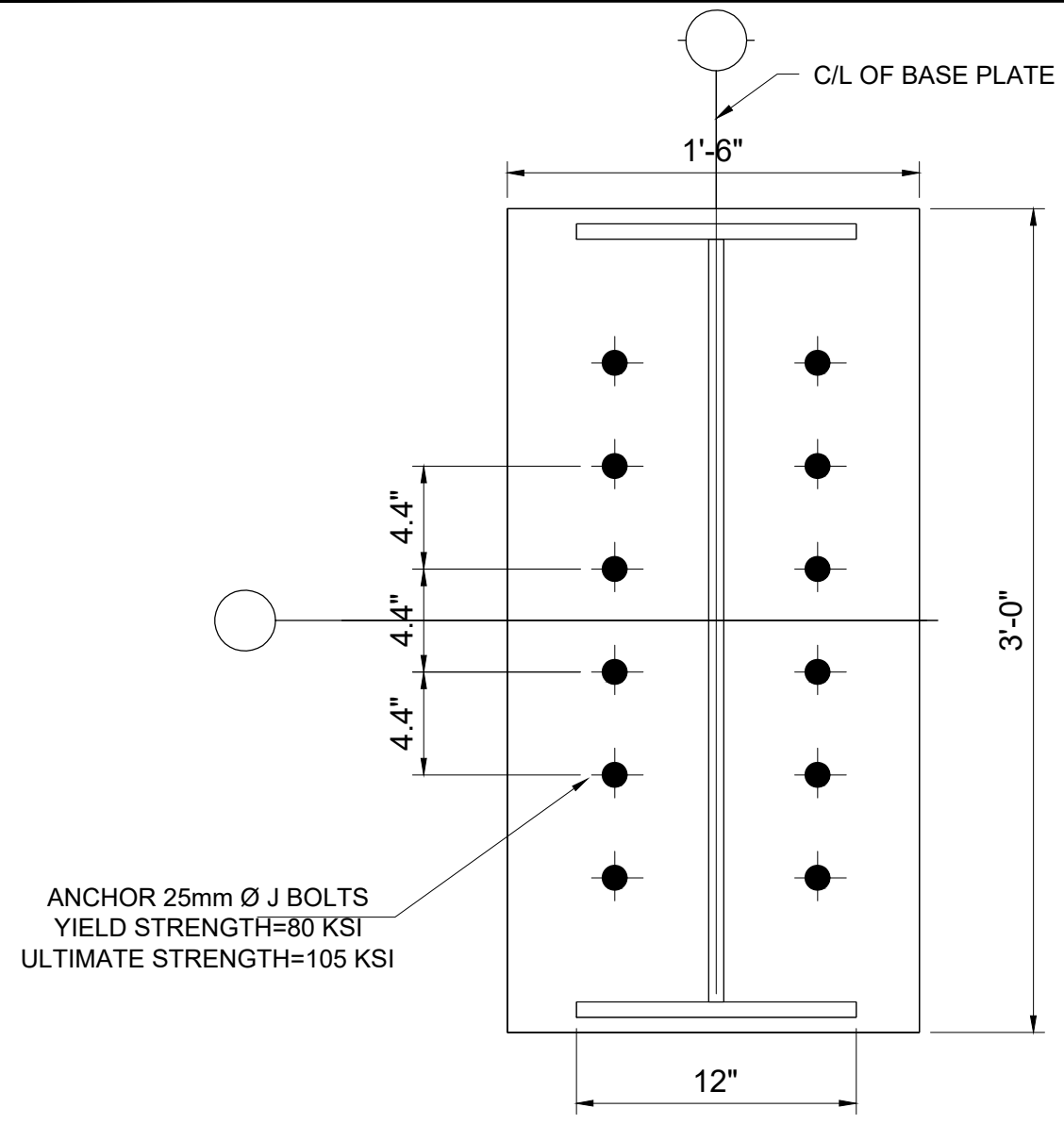
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SHEET:

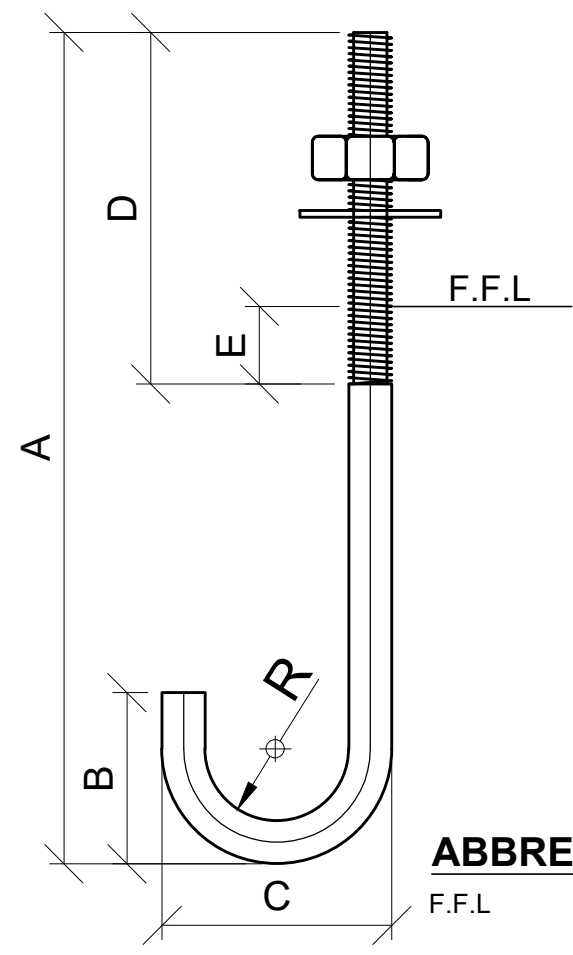
1 OF 1

JOB NO:

488-01




TYPICAL DETAIL - BP-1



ABBREVIATION:
F.F.L - FINISH FLOOR LEVEL

DIMENSIONAL PROPERTIES

BOLT			WEIGHT (Kg)	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	RADIUS "R" (mm)	TOTAL STRAIGHT LENGTH (mm)	EMBEDMENT STRAIGHT LENGTH (mm)
QTY.	NOMINAL DIAMETER	THREAD PITCH									
12	M25	---	--	---	--	--	--	--	--	--	--

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

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 Web: http://www.jers.com.pk

PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 280

DRAWING TITLE:
**TYPICAL ANCHOR BOLTS
 DETAIL WORKSHOP SHED**

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR

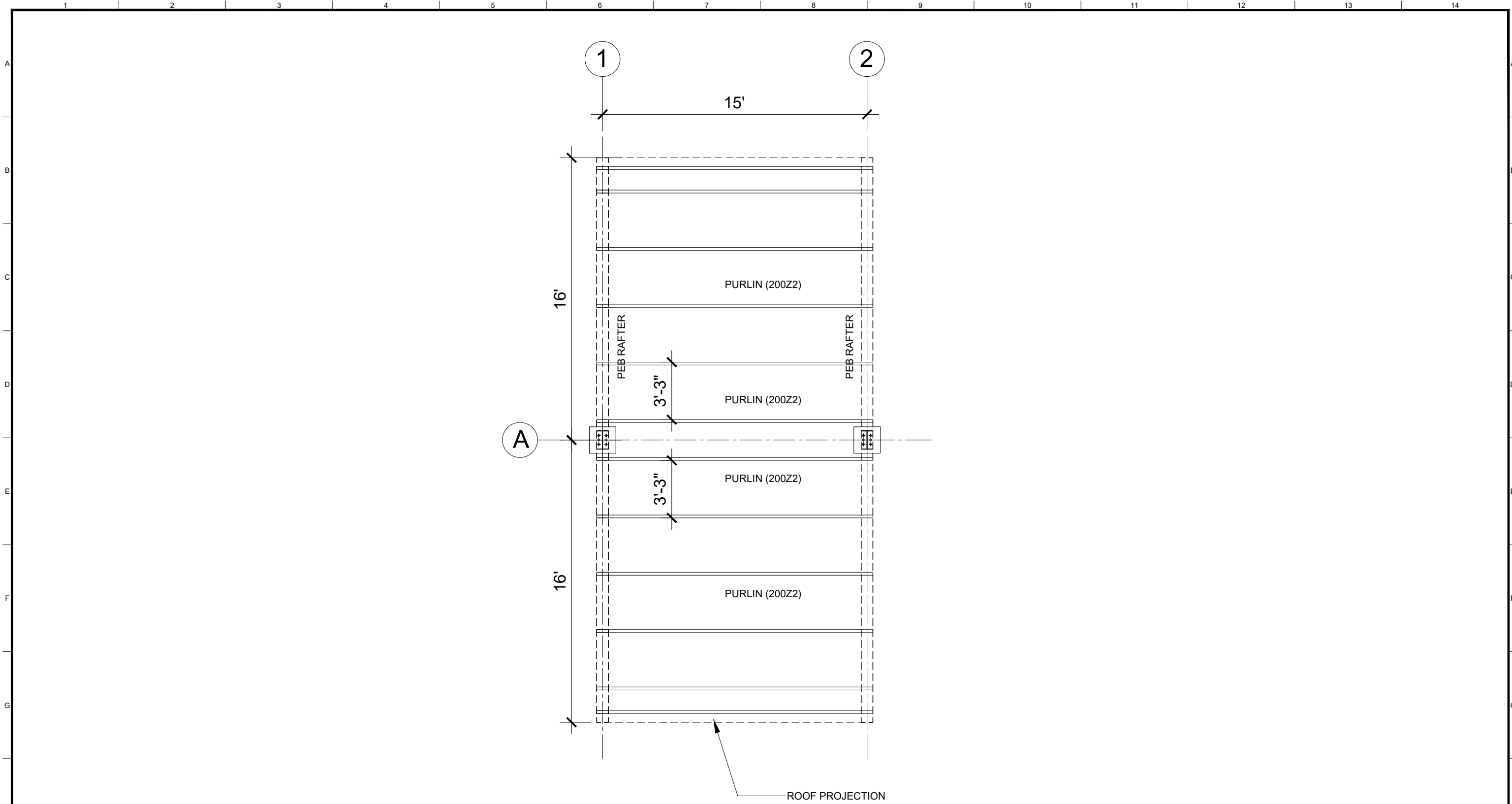
CHECKED BY:
M.HASEEB

DATE:
FEB, 2023



DRAWING NO:
ST-33

SCALE:
UNIT=FEET

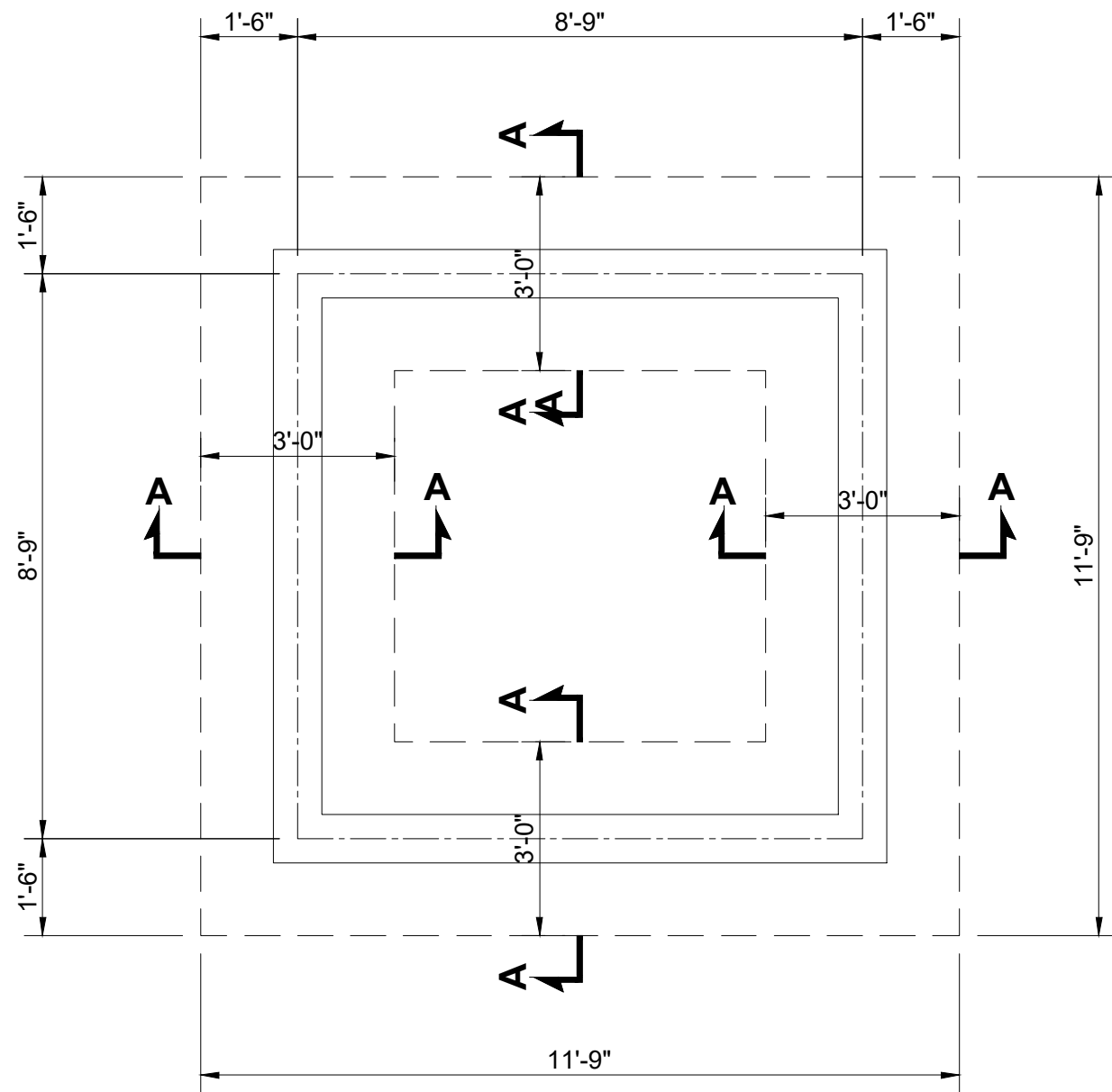
SHEET:
1 OF 1
JOB NO:
488-01



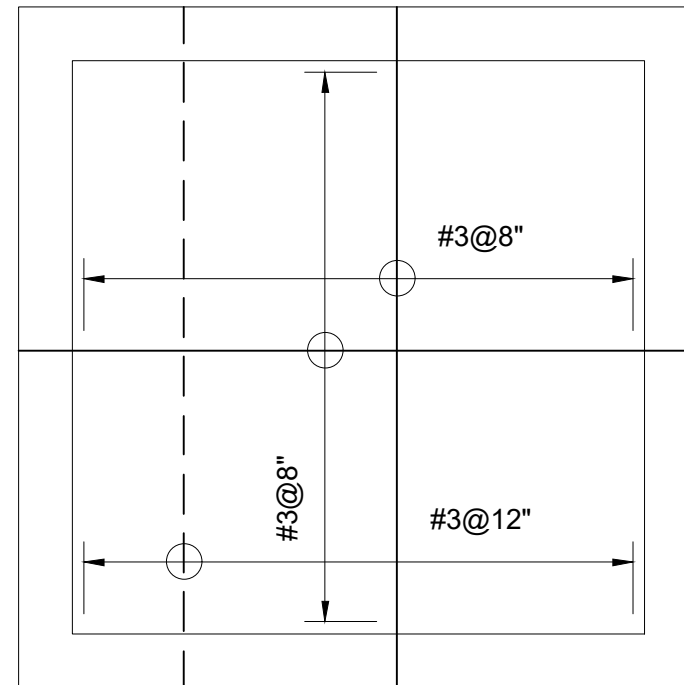
**TOP MAIN FRAMING PLAN FOR ROOF PURLINS
WORKSHOP**

CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 281	DRAWING TITLE: WORKSHOP SHED ROOF FRAMING LAYOUT PLAN	DRAWN BY: MUNIR	DRAWING NO: ST-34
				CHECKED BY: HASEEB	
				DATE: FEB, 2023	JOB NO: 488-01
REV.	DATE	DESCRIPTION			

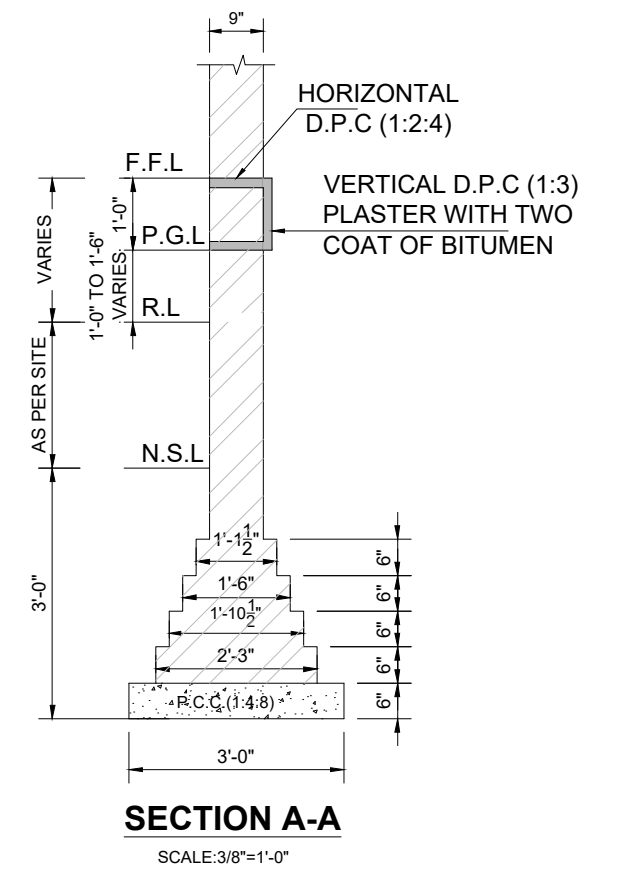
GUARD ROOM STRUCTURE



FOOTING PLAN



SLAB REINFORCEMENT PLAN



SECTION A-A

SCALE: 3/8"=1'-0"

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

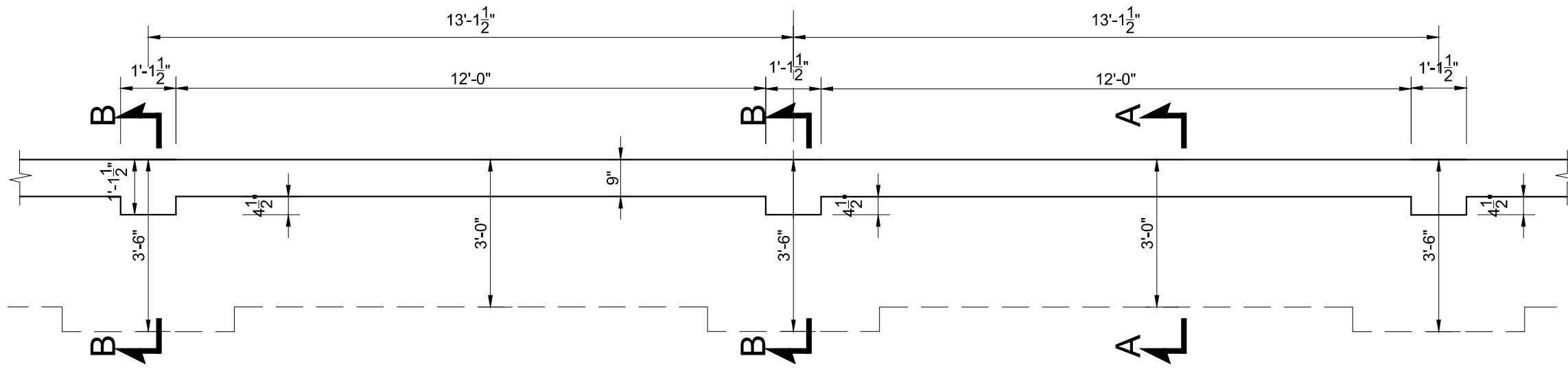
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 285

DRAWING TITLE:
GUARD ROOM FOUNDATION PLAN ,SECTION & SLAB REINFORCEMENT PLAN

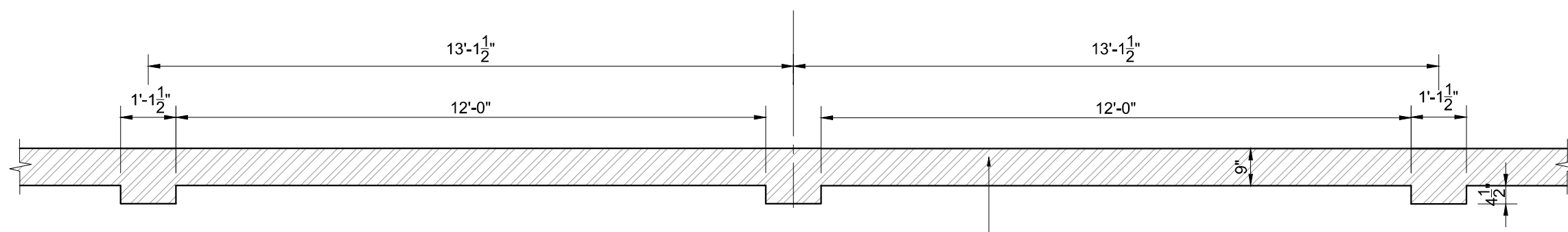
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DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB,2023

DRAWING NO:
ST-37
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01

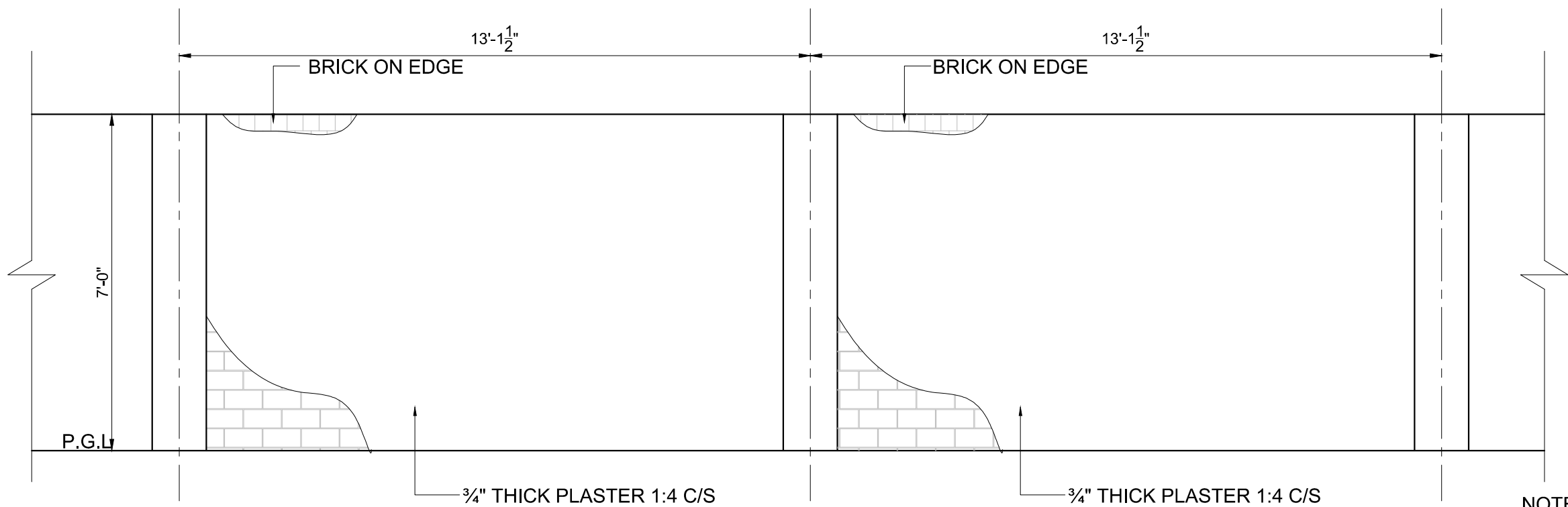


BOUNDARY WALL FOOTING PLAN



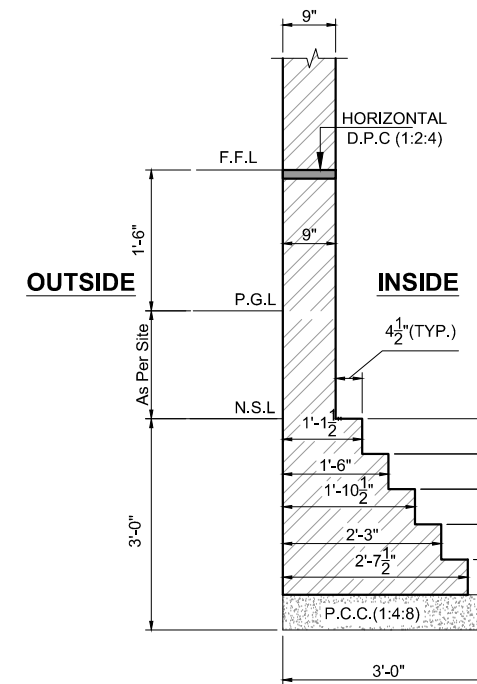
BOUNDARY WALL TOP PLAN

BRICK MASONRY WALL
C/S MORTAR 1:3



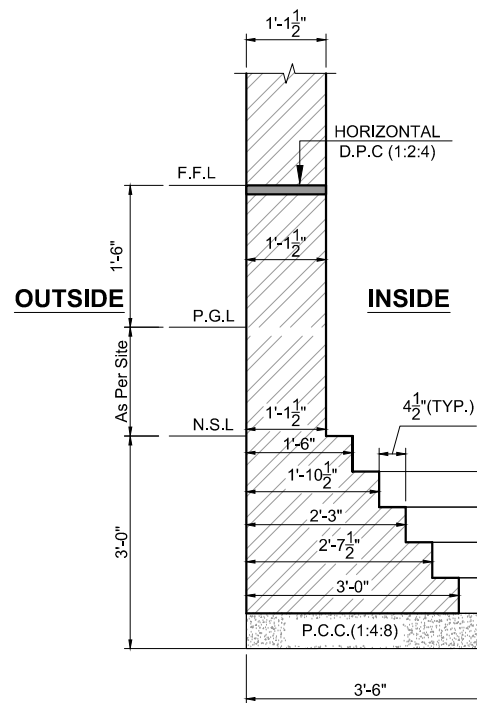
EXTERNAL BOUNDARY WALL ELEVATION

NOTE:
PROVIDE A STEEL BAR OF LENGTH 6'-6" #3 @ 8TH COURSE OF EVERY BRICK COURSE



SECTION A-A

SCALE: 3/8"=1'-0"



SECTION B-B

SCALE: 3/8"=1'-0"

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
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 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

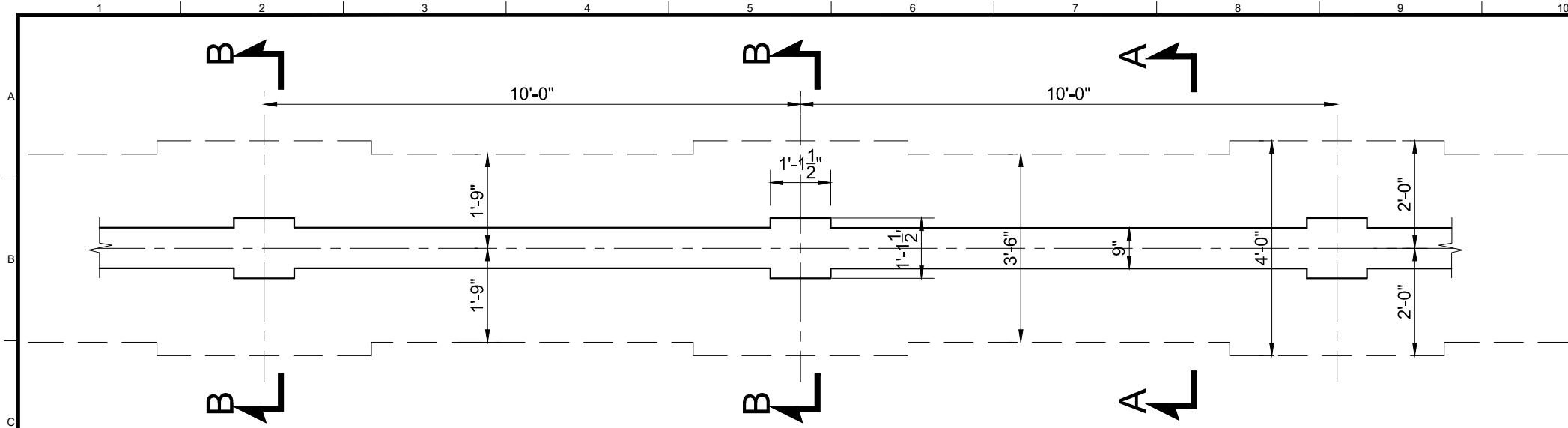
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 286

DRAWING TITLE:
EXTERNAL BOUNDRY WALL FOOTING SECTION & ELEVATION

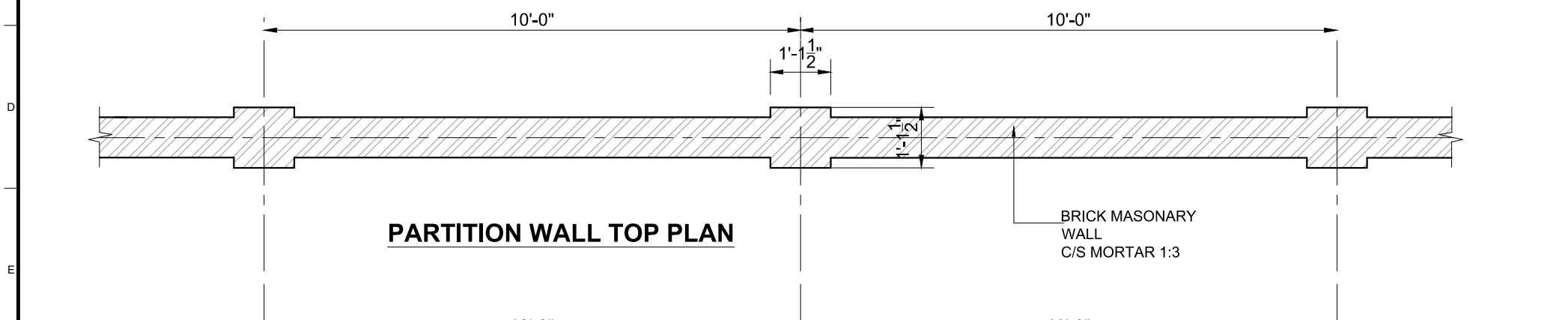
REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR
 CHECKED BY:
HASEEB
 DATE:
FEB, 2023

DRAWING NO:
ST-38
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01

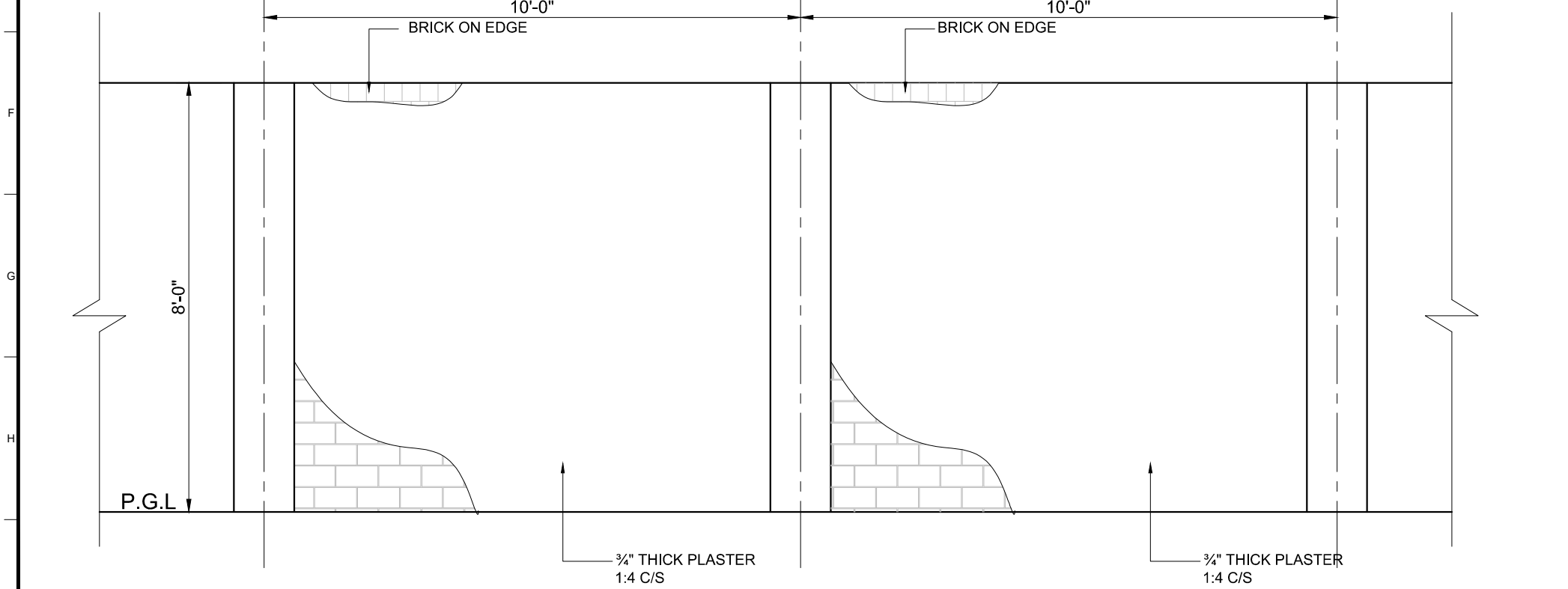


PARTITION WALL FOOTING PLAN

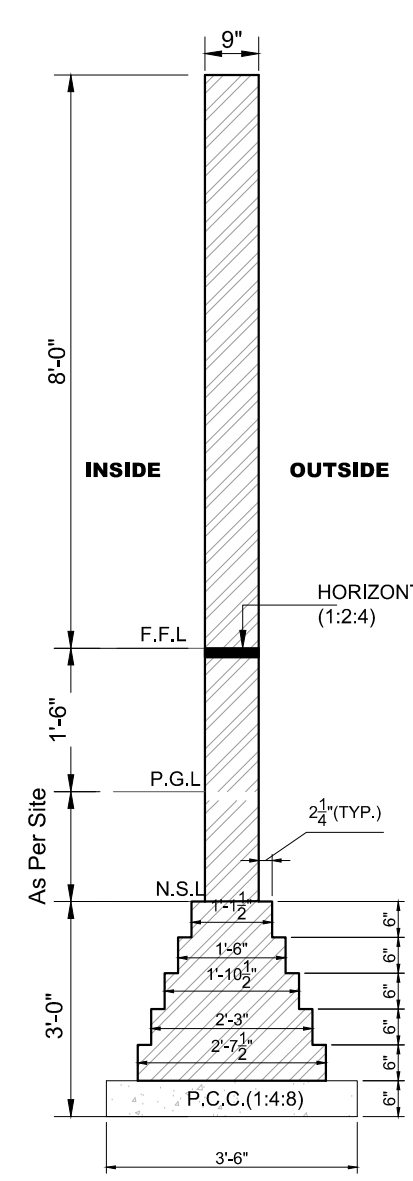


PARTITION WALL TOP PLAN

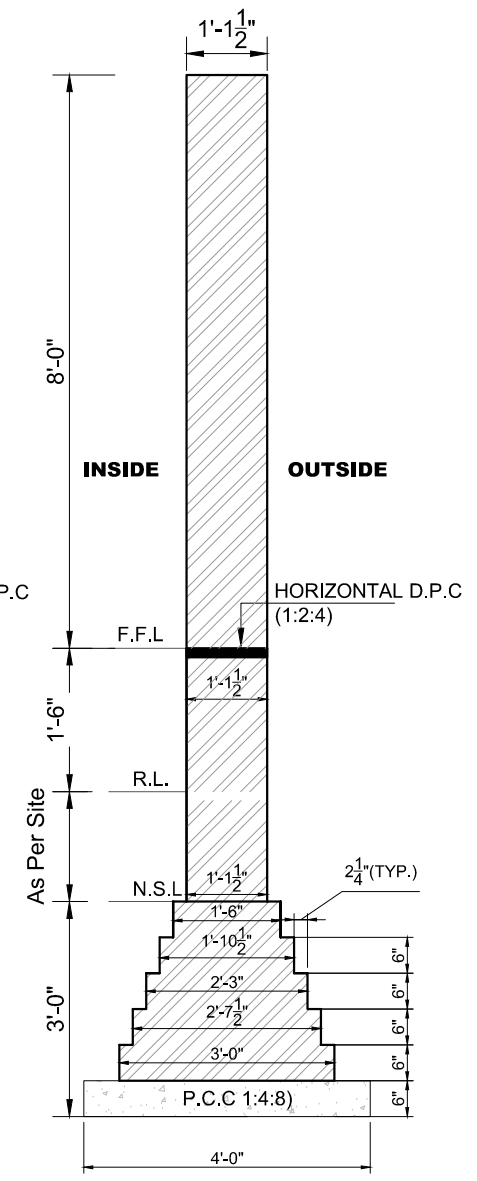
BRICK MASONARY WALL
C/S MORTAR 1:3



PARTITION WALL ELEVATION




SECTION A-A
SCALE: 3/8"=1'-0"



SECTION B-B
SCALE: 3/8"=1'-0"

NOTE:
PROVIDE A STEEL BAR OF LENGTH 6'-6" #3 @ 8TH COURSE OF EVERY BRICK COURSE

CLIENT:



PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

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PROJECT:

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 287

DRAWING TITLE:

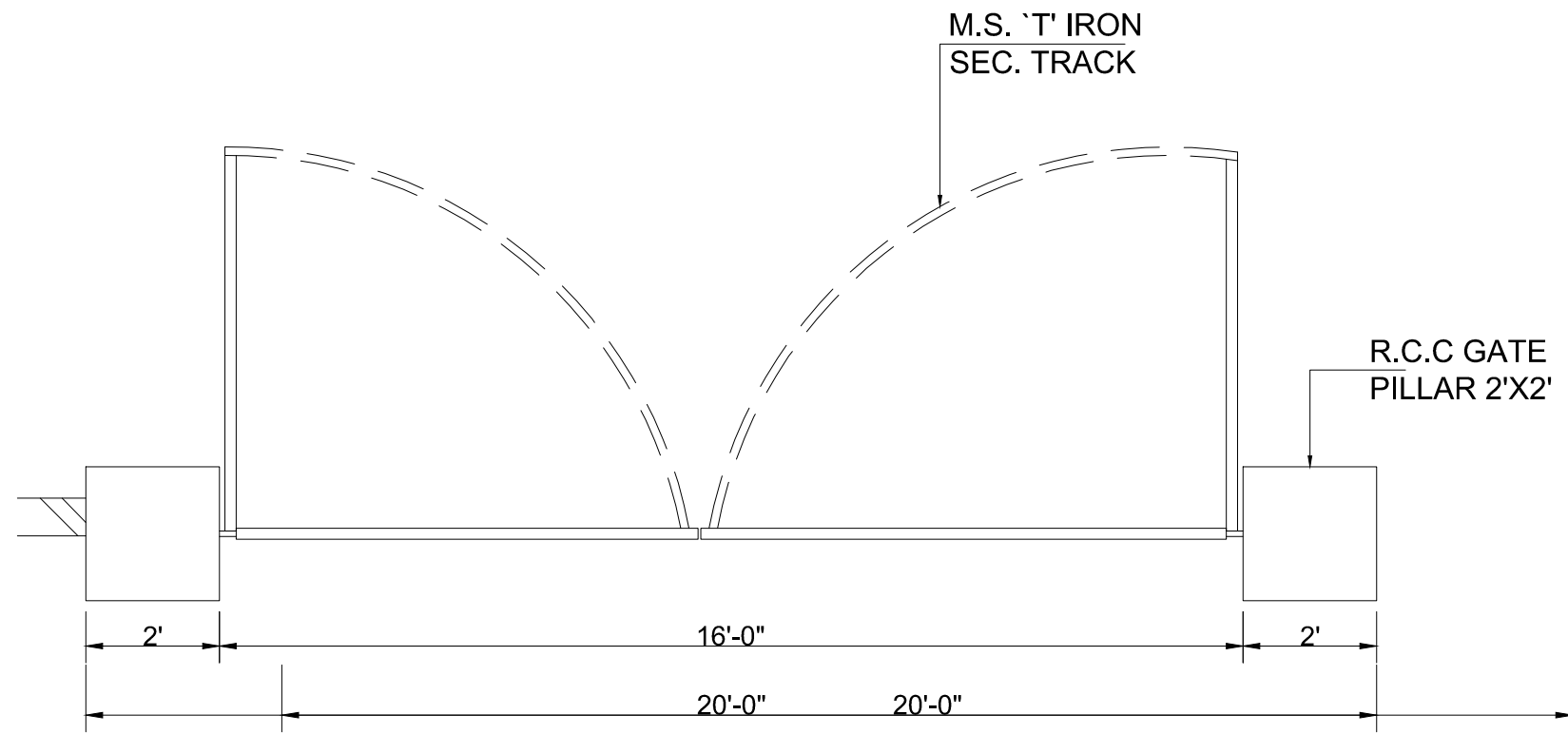
**PARTITION WALL FOOTING,
SECTION & ELEVATION**

REV.	DATE	DESCRIPTION

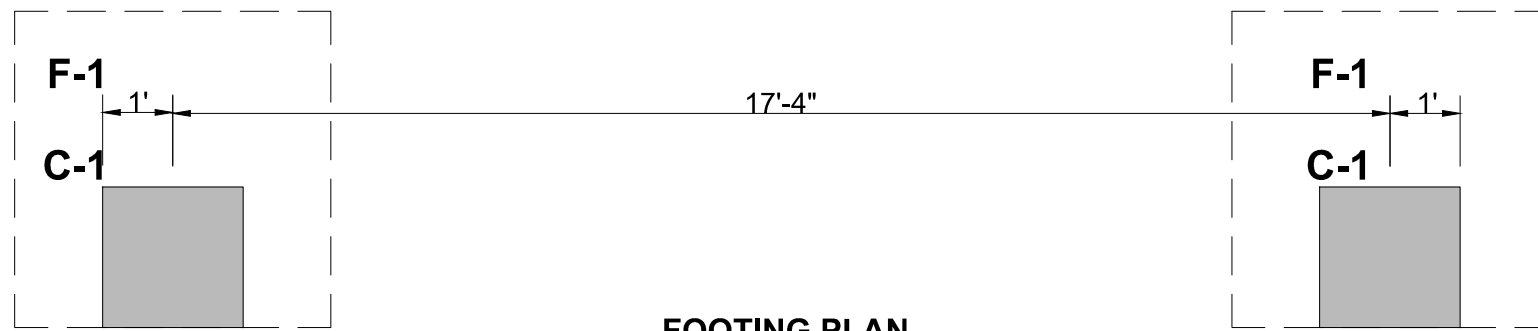
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CHECKED BY: HASEEB
DATE: FEB, 2023

DRAWING NO: **ST-39**

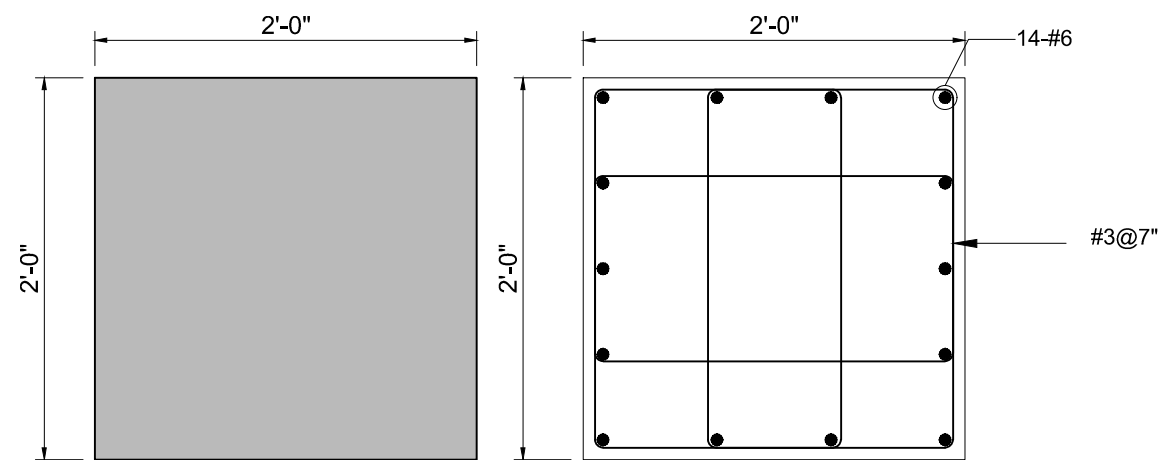
SCALE: -	SHEET: 1 OF 1
UNIT=FEET	JOB NO: 488-01



MAIN GATE PLAN

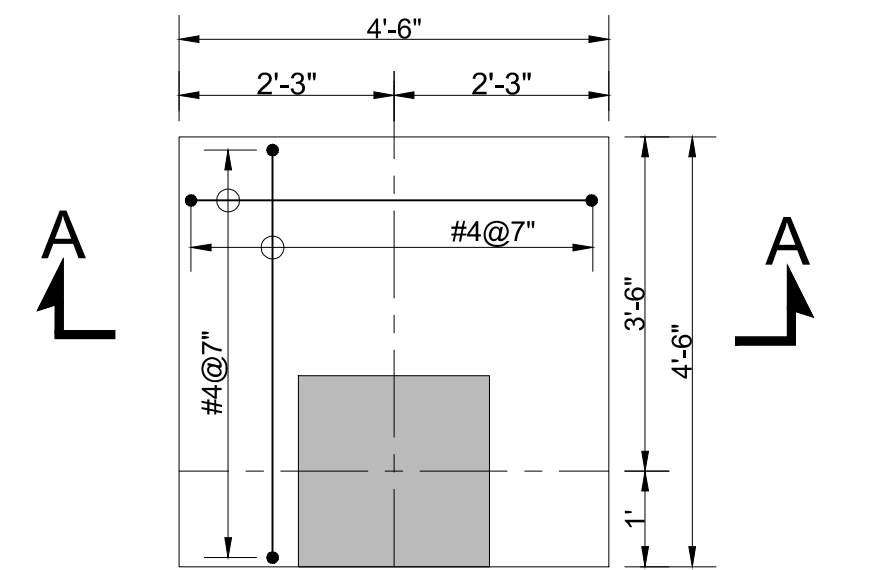


FOOTING PLAN

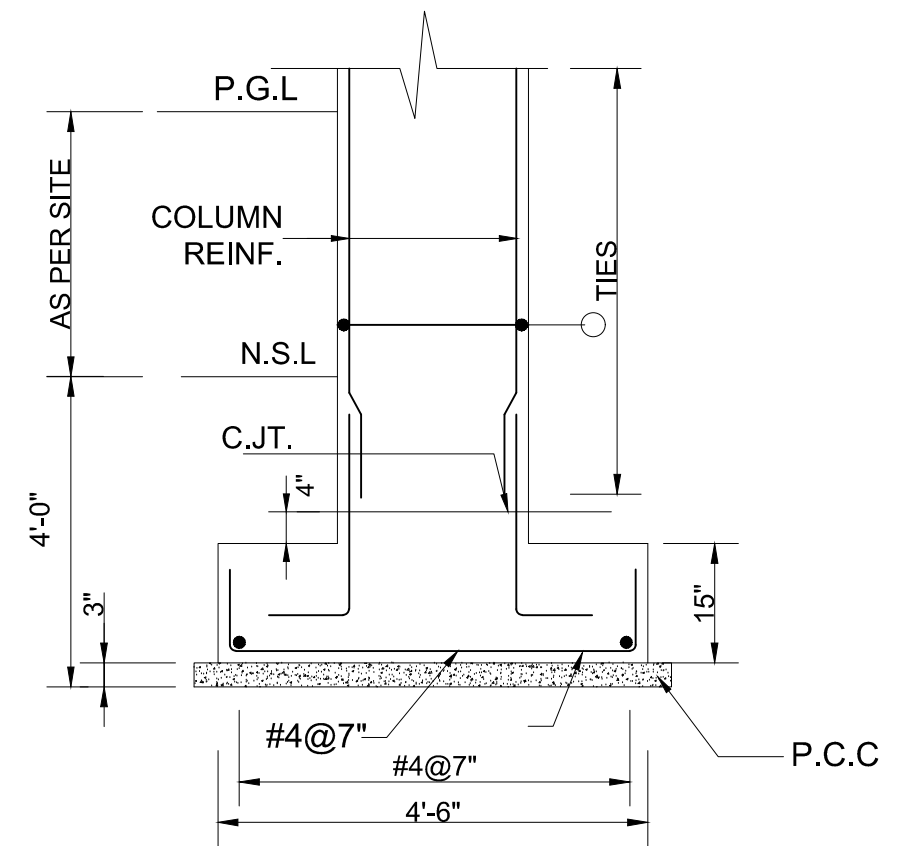


COLUMN C-1

SCALE 1"=1'-0"



FOOTING F-1



SECTION A-A

SCALE 1/2"=1'-0"

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 289

DRAWING TITLE:
ENTRANCE GATE FOOTING & SECTION

REV.	DATE	DESCRIPTION

DRAWN BY:
MUNIR
 CHECKED BY:
M.HASEEB
 DATE:
FEB,2023

DRAWING NO:
ST-41
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01

PLUMBING DRAWING

LEGEND & NOTES:

WATER SUPPLY

LEGEND

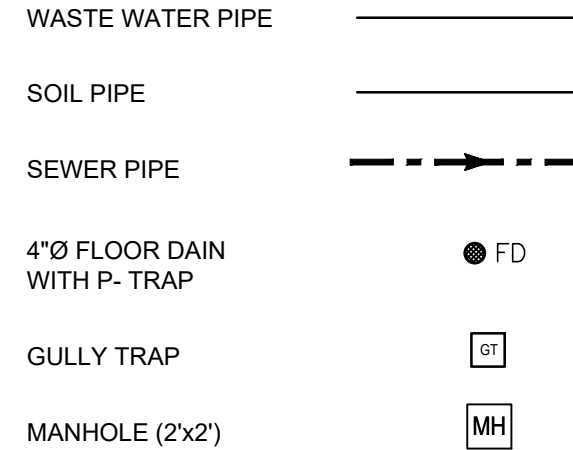


NOTES

1. ALL WATER SUPPLY PIPE DIAMETERS MENTIONED ARE EXTERNAL DIAMETERS UNLESS OTHERWISE MENTIONED
2. PROVIDE ISOLATION (GATE) VALVE ON ALL COLD WATER SUPPLY LINES AT THE INLET TO EACH TOILET. VALVES SHALL BE INSTALLED AT ACCESSIBLE LOCATIONS
3. ALL WATER SUPPLY PIPES ARE POLYPROPYLENE RANDOM PIPE (PPR-PN 20) UNLESS OTHERWISE MENTIONED
4. ALL WATER SUPPLY PIPES FITTINGS SUCH AS BENDS, TEES, SOCKETS, ARE PPR (PN 25) UNLESS OTHERWISE MENTIONED
5. ALL WATER SUPPLY PIPES ARE SUSPENDED ALONG CEILING OR CONCEALED IN WALLS.
6. ALL WATER SUPPLY PIPES WITHIN THE BUILDING SHALL RUN AT HIGH LEVEL UNLESS OTHERWISE SPECIFIED
7. ALL WCs, WASH BASINS AND SINKS TO BE PROVIDED WITH T STOP COCKS
8. CONTRACTOR SHALL VERIFY THE PUMPING FOR ALL PUMPS AS PER THE SITE CONDITION AND SHALL INFORM TO THE ENGINEER FOR ANY VARIATION
9. ALL PUMP SHALL BE PROVIDED WITH FLEXIBLE CONNECTOR AT SUCTION AND DISCHARGE

SEWERAGE SYSTEM

LEGEND



NOTES

1. ALL SOIL, WASTE, VENT & DRAINAGE PIPES DIAMETERS MENTIONED ARE NOMINAL DIAMETERS UNLESS OTHERWISE MENTIONED
2. ALL SOIL, WASTE AND VENT PIPES ARE uPVC (UNPLASTICSED POLYVINYL CHLORIDE) CLASS B UNLESS OTHERWISE MENTIONED
3. ALL MANHOLE COVERS SHALL BE OF HEAVY DUTY CAST IRON
4. INVERT LEVELS WILL BE ADJUSTED AS PER SITE CONDITION
5. ALL DIAMETERS MENTIONED ARE NOMINAL DIAMETERS
6. ALL VERTICAL WC'S & URINALS WILL BE PROVIDED WITH MUSLIM SHOWER
7. ALL RAIN WATER DISPOSAL PIPES SHALL BE OF uPVC CLASS-B
8. THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS
9. ALL SEWAGE PIPING FROM FIXTURES TO MANHOLES AND GULLY TRAPS SHALL BE OF uPVC
10. ALL CLEAN OUTS & FLOOR DRAINS SHALL BE COORDINATE WITH INTERIOR
11. MINIMUM SLOPE OF SOIL AND WASTE PIPES ARE AS UNDER

PIPE DIA.	SLOPE
3"	1:50
4"	1:100
6"	1:150
9"	1:200

CLIENT:



PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

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PROJECT:

PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 291

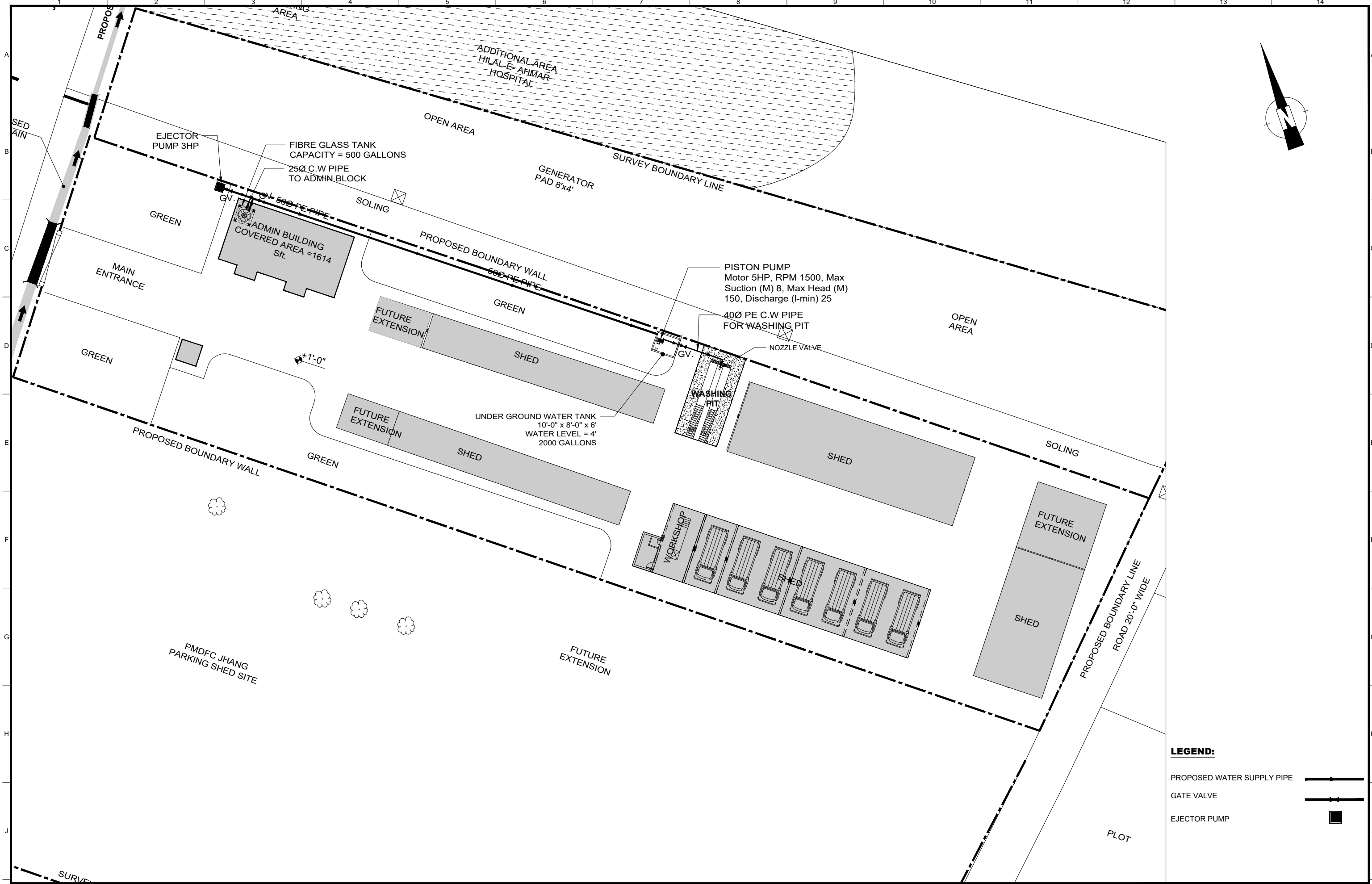
DRAWING TITLE:

LEGEND & NOTES

REV.	DATE	DESCRIPTION
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DRAWN BY: M.HAMZA	DRAWING NO: PH-00
CHECKED BY: TAYYABA	
DATE: FEB,2023	SCALE: UNIT=FEET
	SHEET: 1 OF 1 JOB NO: 488-01

WATER SUPPLY DRAWING

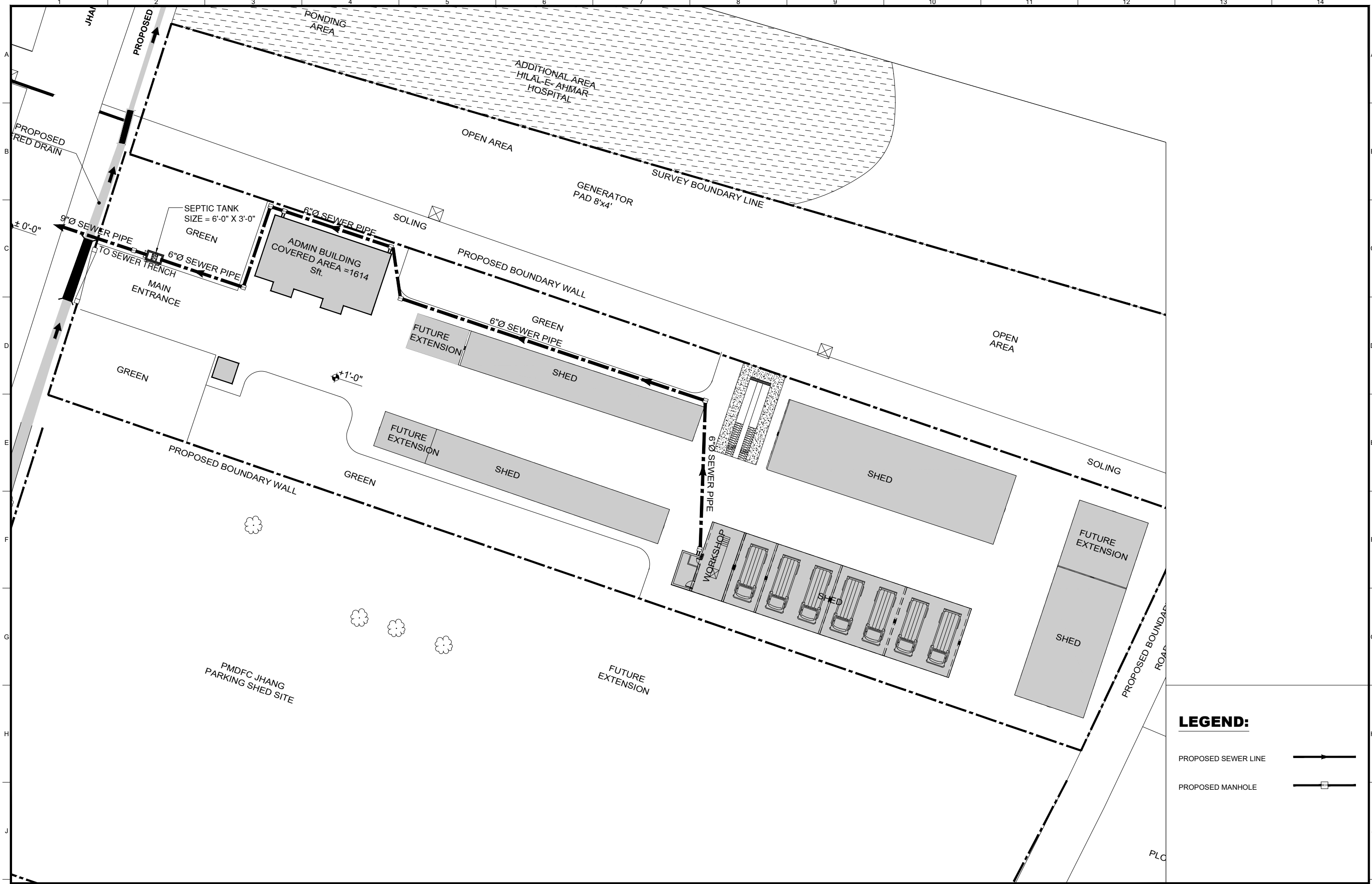


LEGEND:

PROPOSED WATER SUPPLY PIPE	
GATE VALVE	
EJECTOR PUMP	

<p>CLIENT:</p> <p>PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)</p>	<p>CONSULTANTS:</p> <p>JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</p>	<p>PROJECT:</p> <p align="center">PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 293</p>	<p>DRAWING TITLE:</p> <p align="center">WATER SUPPLY LAYOUT PLAN PARKING SHED AREA</p>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	DATE	DESCRIPTION										<p>DRAWN BY:</p> <p align="center">DANISH</p> <p>CHECKED BY:</p> <p align="center">TAYYABA</p> <p>DATE:</p> <p align="center">07-02-2023</p>	<p>DRAWING NO:</p> <p align="center">PH-01</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>SHEET:</td> </tr> <tr> <td>1"=25'</td> <td>1 OF 1</td> </tr> <tr> <td></td> <td>JOB NO:</td> </tr> <tr> <td></td> <td>488-01</td> </tr> </table>	SCALE:	SHEET:	1"=25'	1 OF 1		JOB NO:		488-01
REV.	DATE	DESCRIPTION																								
SCALE:	SHEET:																									
1"=25'	1 OF 1																									
	JOB NO:																									
	488-01																									

SEWERAGE DRAWING

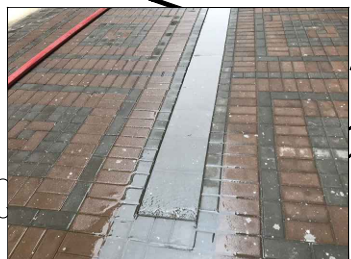
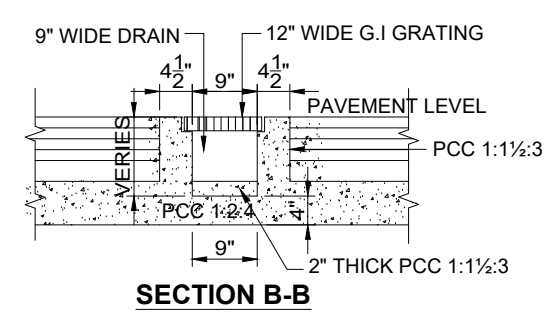
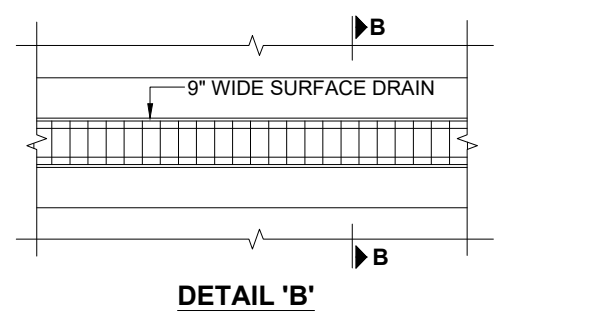
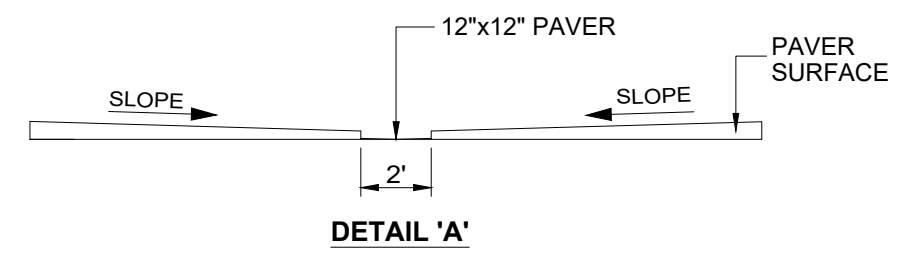
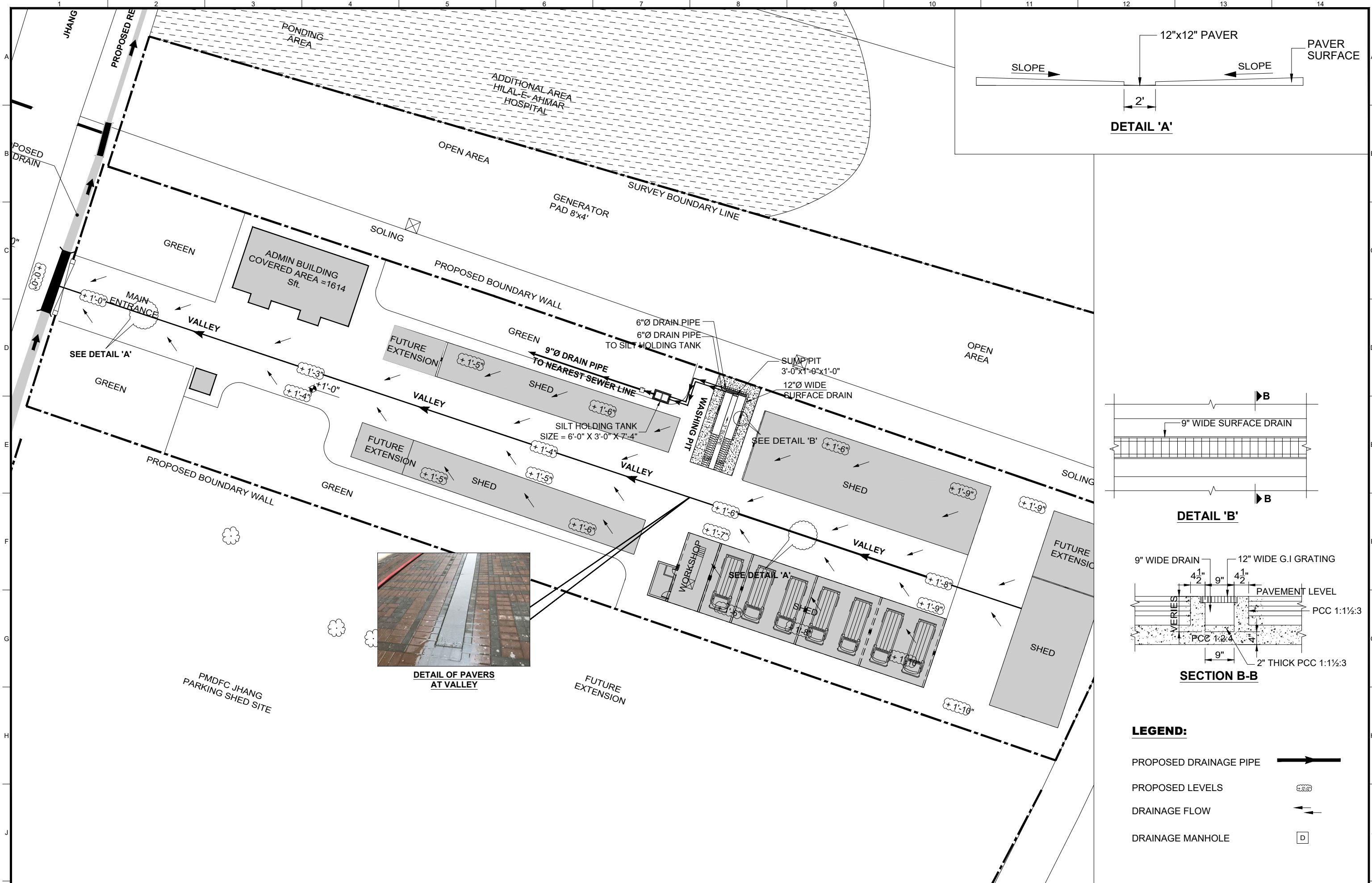


LEGEND:

- PROPOSED SEWER LINE
- PROPOSED MANHOLE

<p>CLIENT:</p> <p>PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)</p>	<p>CONSULTANTS:</p> <p>JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</p>	<p>PROJECT:</p> <p align="center">PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 295</p>	<p>DRAWING TITLE:</p> <p align="center">SEWER SYSTEM LAYOUT PLAN PARKING SHED AREA</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th>REV.</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	REV.	DATE	DESCRIPTION										<p>DRAWN BY:</p> <p align="center">DANISH</p> <p>CHECKED BY:</p> <p align="center">TAYYABA</p> <p>DATE:</p> <p align="center">07-02-2023</p>	<p>DRAWING NO:</p> <p align="center">PH-02</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>SHEET:</td> </tr> <tr> <td align="center">1"=25'</td> <td align="center">1 OF 1</td> </tr> <tr> <td></td> <td align="center">JOB NO:</td> </tr> <tr> <td></td> <td align="center">488-01</td> </tr> </table>	SCALE:	SHEET:	1"=25'	1 OF 1		JOB NO:		488-01
REV.	DATE	DESCRIPTION																								
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	488-01																									

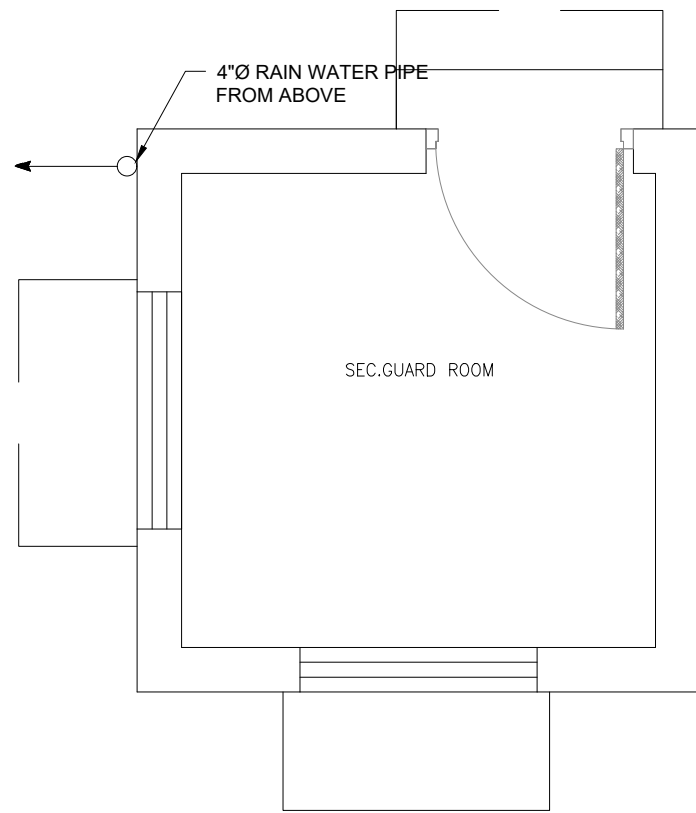
SURFACE DRAINAGE



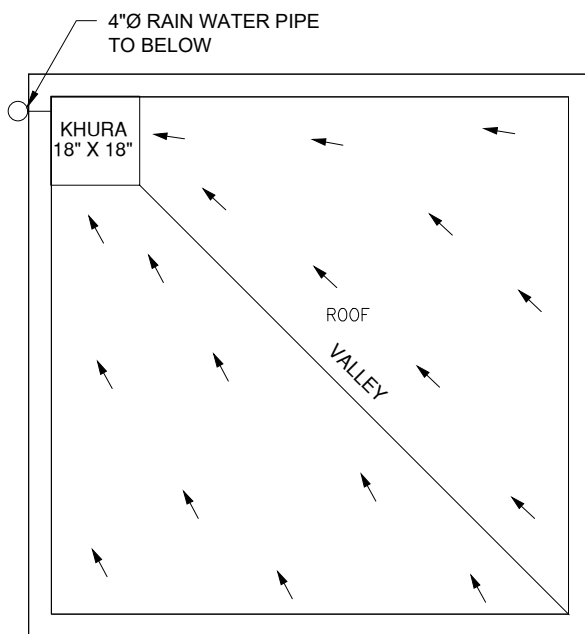
DETAIL OF PAVERS AT VALLEY

- LEGEND:**
- PROPOSED DRAINAGE PIPE
 - PROPOSED LEVELS
 - DRAINAGE FLOW
 - DRAINAGE MANHOLE

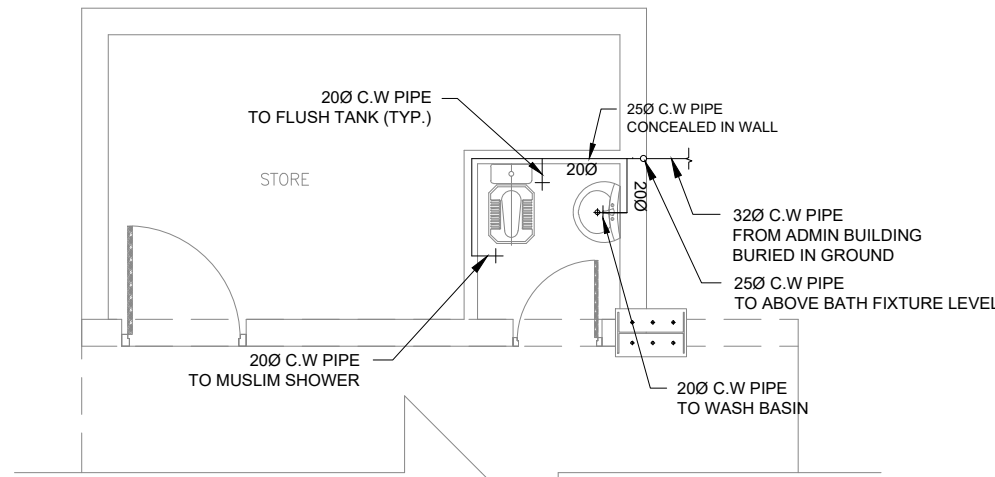
<p>CLIENT:</p> <p>PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)</p>	<p>CONSULTANTS:</p> <p>JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</p>	<p>PROJECT:</p> <p align="center">PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 297</p>	<p>DRAWING TITLE:</p> <p align="center">DRAINAGE SYSTEM LAYOUT PLAN PARKING SHED AREA</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><th>REV.</th><th>DATE</th><th>DESCRIPTION</th></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table>	REV.	DATE	DESCRIPTION										<p>DRAWN BY:</p> <p align="center">DANISH</p> <p>CHECKED BY:</p> <p align="center">TAYYABA</p> <p>DATE:</p> <p align="center">07-02-2023</p>	<p>DRAWING NO:</p> <p align="center">PH-03</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>SHEET:</td> </tr> <tr> <td>UNIT=FEET 1"=25'</td> <td>1 OF 1</td> </tr> <tr> <td></td> <td>JOB NO: 488-01</td> </tr> </table>	SCALE:	SHEET:	UNIT=FEET 1"=25'	1 OF 1		JOB NO: 488-01
REV.	DATE	DESCRIPTION																						
SCALE:	SHEET:																							
UNIT=FEET 1"=25'	1 OF 1																							
	JOB NO: 488-01																							



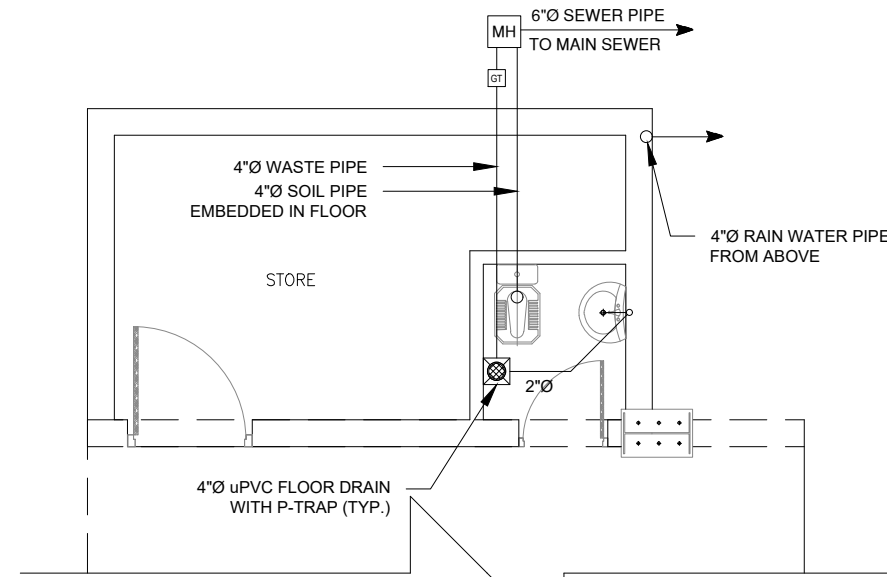
**GROUND FLOOR PLAN
DRAINAGE SYSTEM DETAIL - 1
GUARD ROOM**



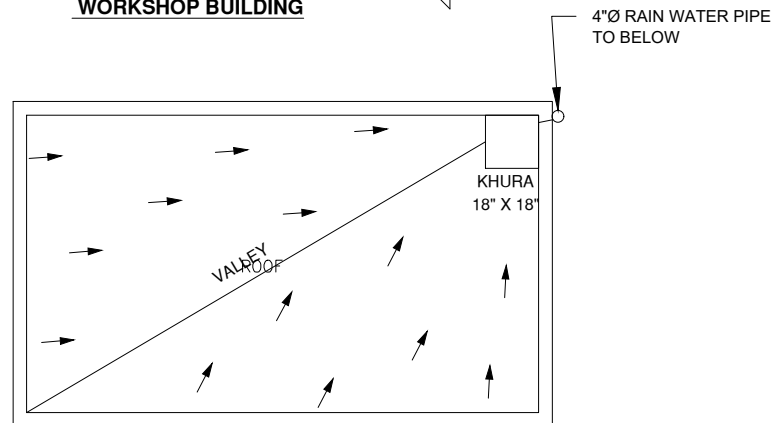
**TOP ROOF PLAN
DRAINAGE SYSTEM DETAIL - 1
GUARD ROOM**



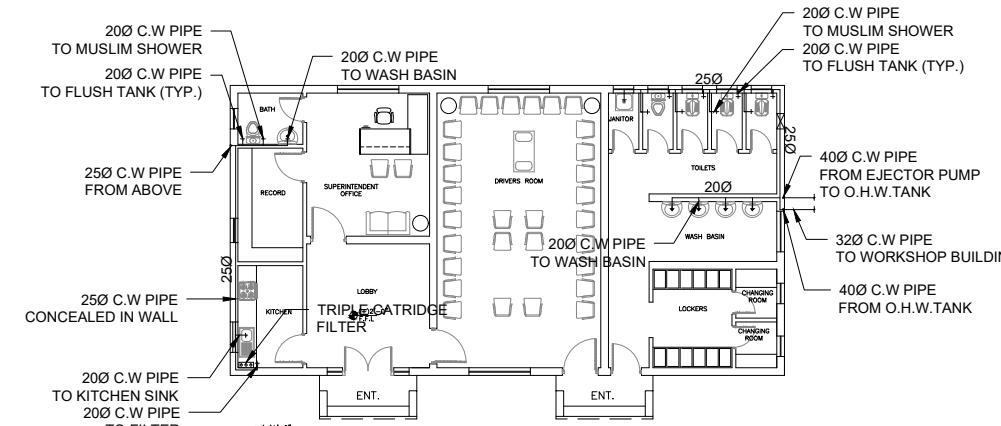
**GROUND FLOOR PLAN
WATER SUPPLY DETAIL - 2
WORKSHOP BUILDING**



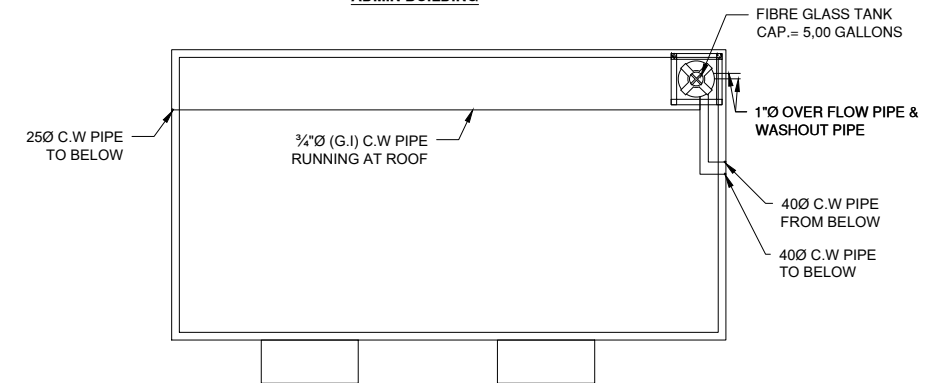
**GROUND FLOOR PLAN
SEWER SYSTEM DETAIL - 2
WORKSHOP BUILDING**



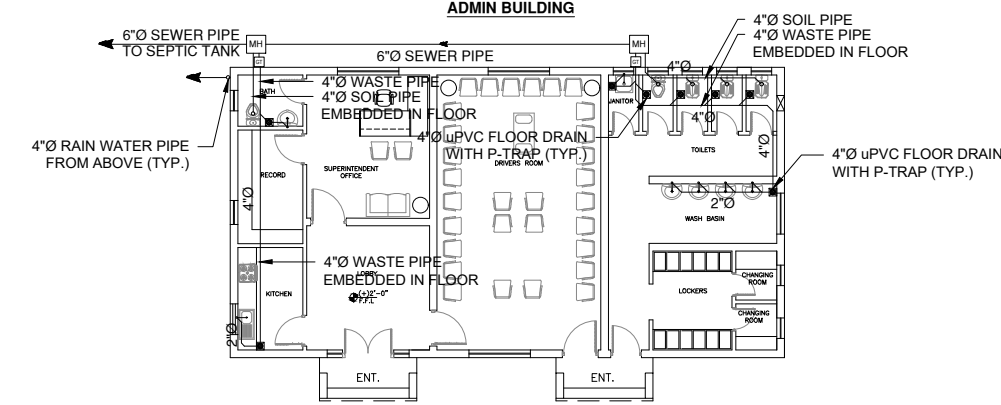
**GROUND FLOOR PLAN
DRAINAGE SYSTEM DETAIL - 2
WORKSHOP BUILDING**



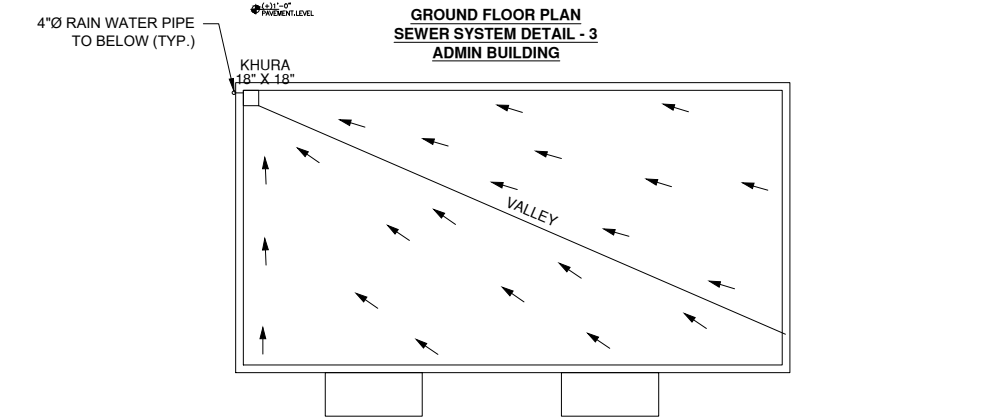
**GROUND FLOOR PLAN
WATER SUPPLY DETAIL - 3
ADMIN BUILDING**



**ROOF FLOOR PLAN
WATER SUPPLY DETAIL - 3
ADMIN BUILDING**



**GROUND FLOOR PLAN
SEWER SYSTEM DETAIL - 3
ADMIN BUILDING**



**ROOF FLOOR PLAN
DRAINAGE SYSTEM DETAIL - 3
ADMIN BUILDING**

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

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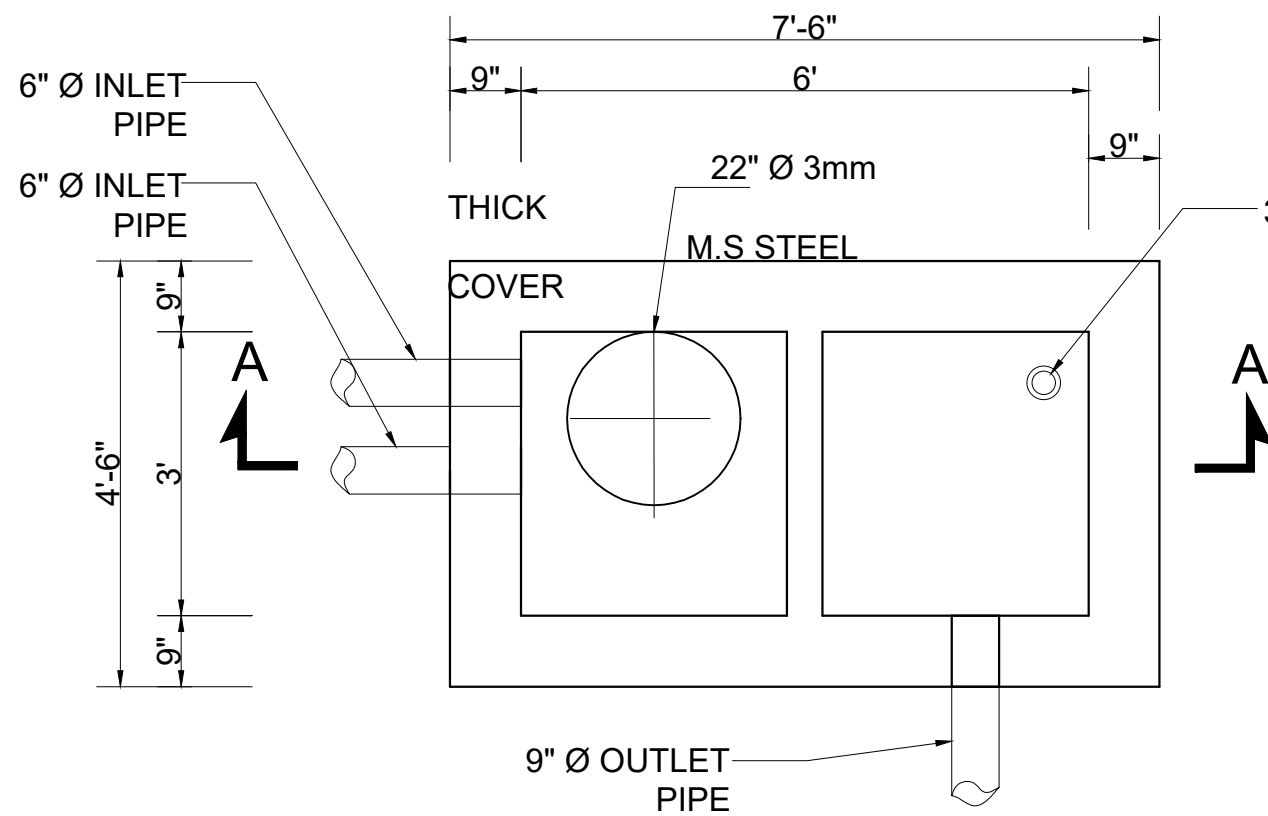
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 298

DRAWING TITLE:
WATER SUPPLY & SEWER SYSTEM LAYOUT PLAN

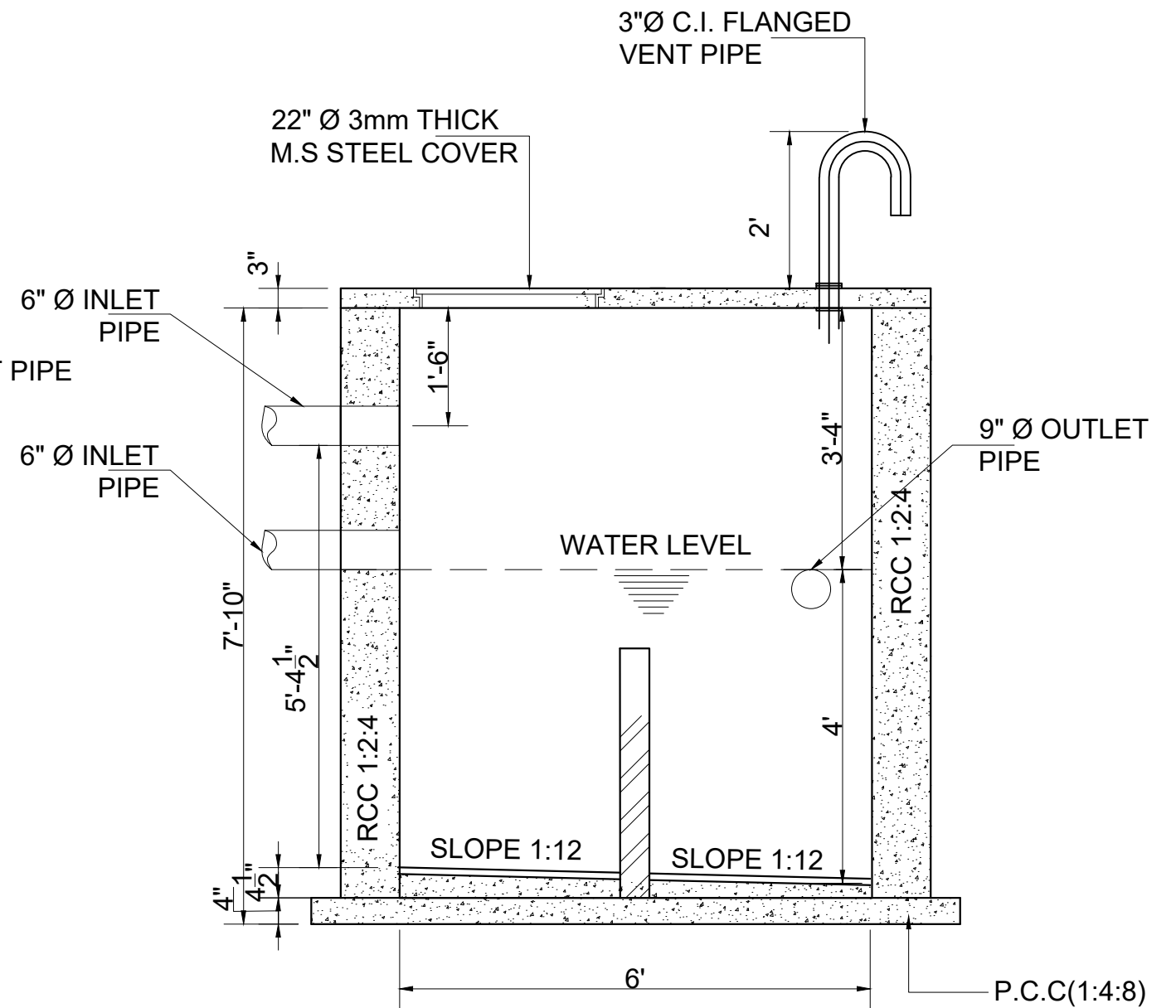
DRAWN BY:
 M.HAMZA
 CHECKED BY:
 TAYYABA
 DATE:
 FEB, 2023

DRAWING NO:
PH-04
 SCALE:
 1/4"=1'-0"
 SHEET:
 1 OF 1
 JOB NO:
 488-01

REV.	DATE	DESCRIPTION



SILT HOLDING TANK PLAN



SECTION A-A

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
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 Web: http://www.jers.com.pk

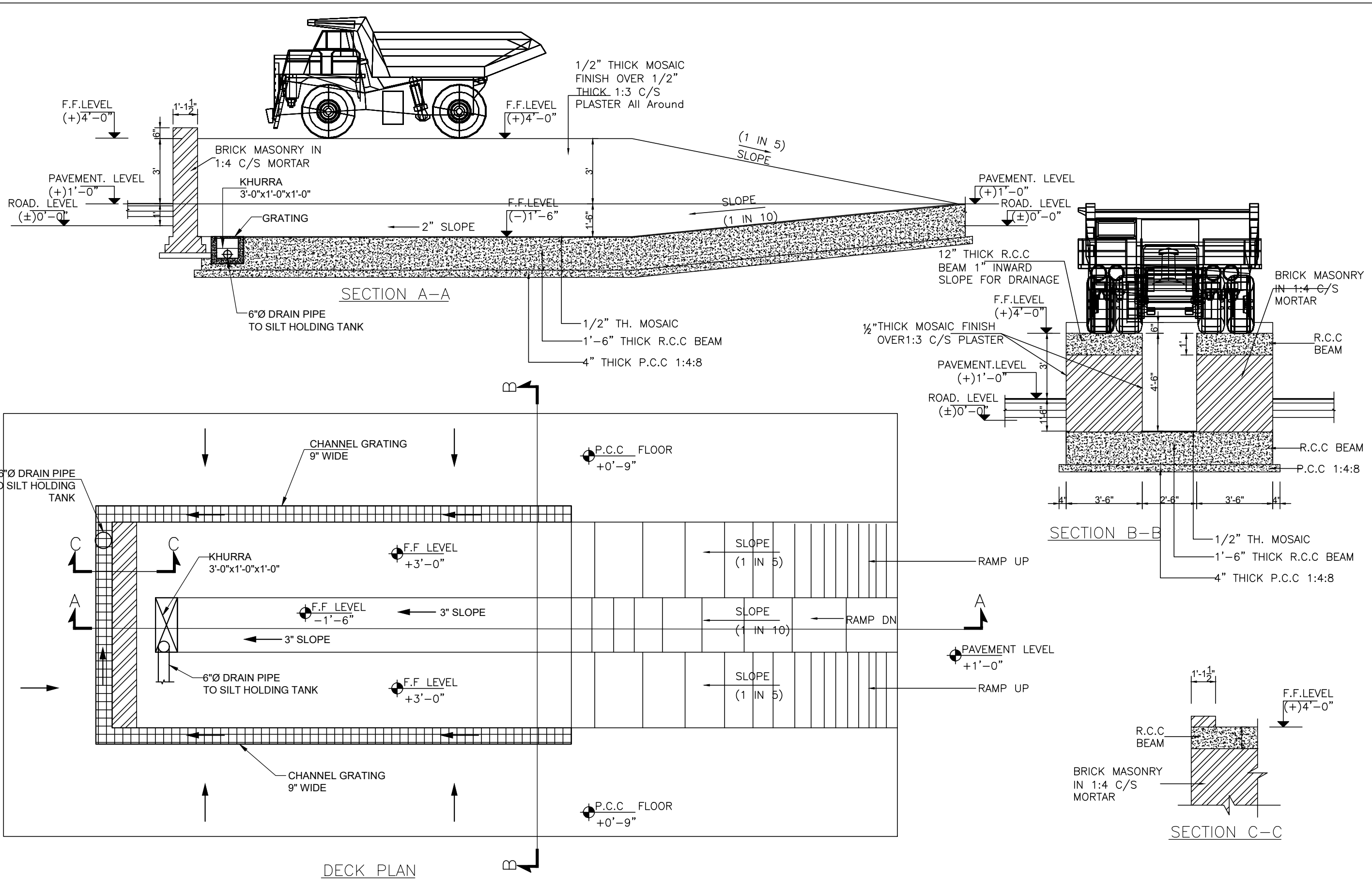
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 299


DRAWING TITLE:
SILT HOLDING TANK DETAIL

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
M.HAMZA
 CHECKED BY:
TAYYABA
 DATE:
FEB,2023

DRAWING NO:
PH-05
 SCALE:
UNIT=FEET
 SHEET:
1 OF 1
 JOB NO:
488-01



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

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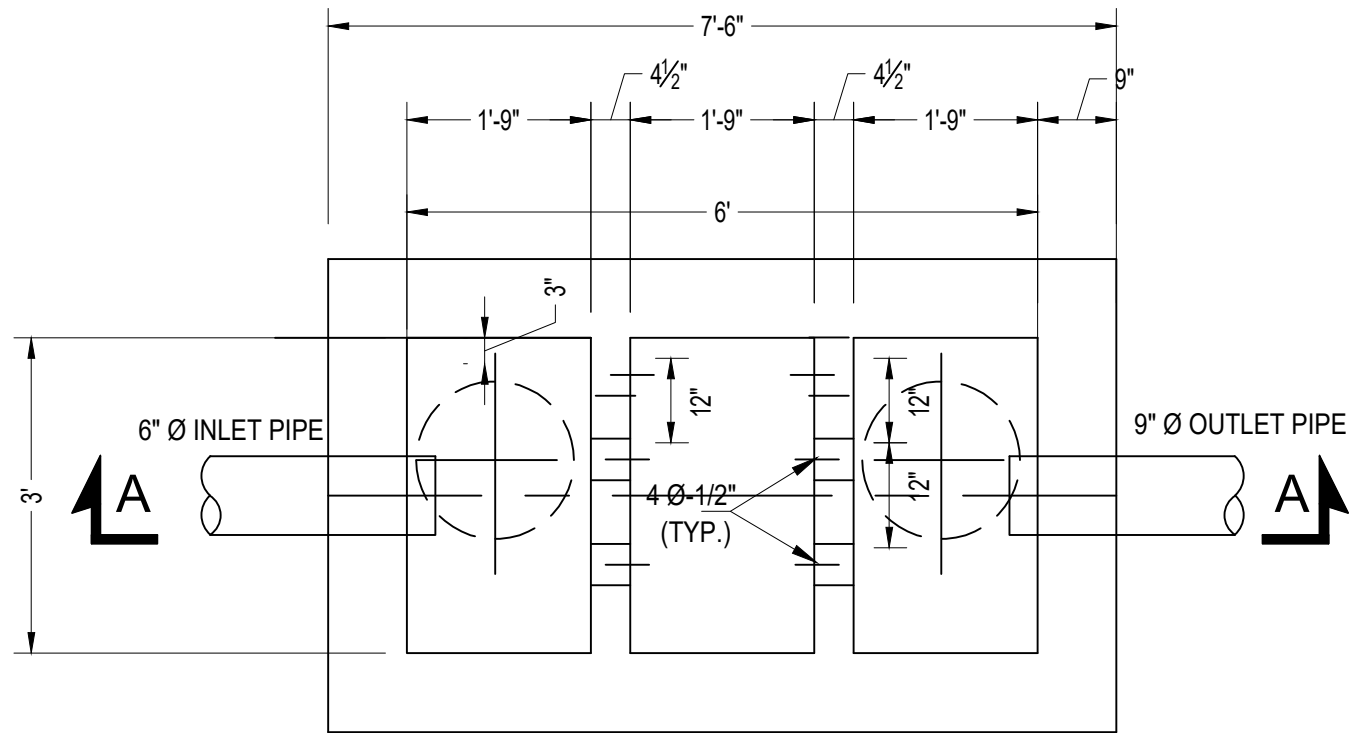
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB.

DRAWING TITLE:
WASHING PIT DETAIL

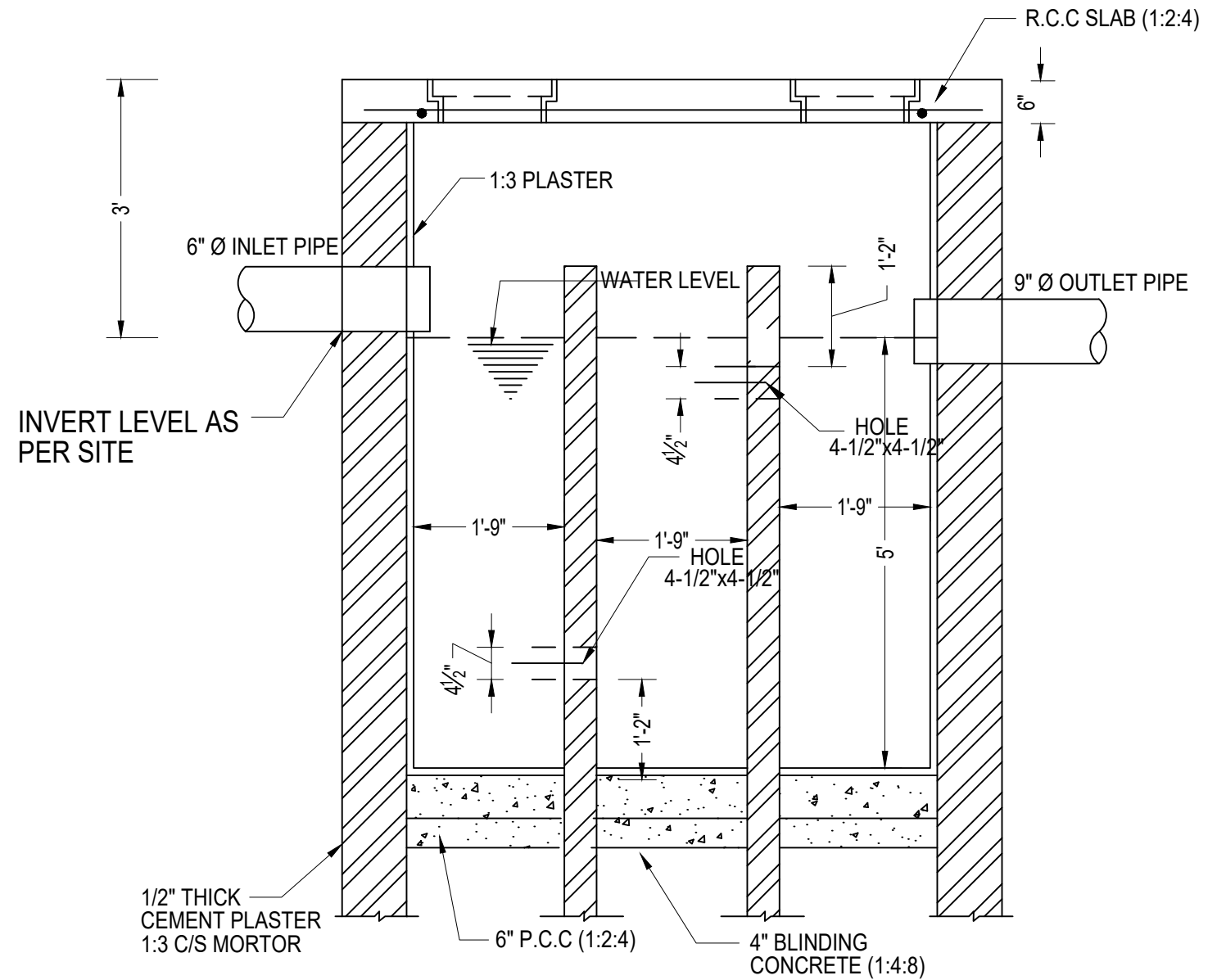
REV.	DATE	DESCRIPTION

DRAWN BY:
M.HAMZA
 CHECKED BY:
TAYYABA
 DATE:
FEB, 2022

DRAWING NO:
PH-06
 SCALE:
 UNIT=FEET
 SHEET:
 1 OF 1
 JOB NO:
 488-01



PLAN



SECTION A-A

CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 301

DRAWING TITLE:
**DETAIL OF SEPTIC TANK
 PARKING SHED AREA**

REV.	DATE	DESCRIPTION

DRAWN BY:
M.HAMZA
 CHECKED BY:
TAYYABA
 DATE:
FEB-2023

DRAWING NO:
PH-07
 SCALE: 1"=25'
 SHEET: 1 OF 1
 JOB NO: 488-01

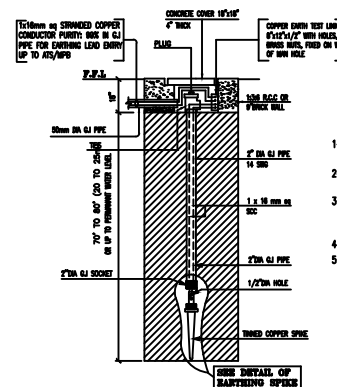
ELECTRICAL DRAWING

LEGEND

1 LIGHT FITTINGS & FIXTURES				
S.NO	SYMBOLS	DESCRIPTION	MAKE	MOUNTING HEIGHT
1		WASHROOM MIRROR LIGHT 9 WATTS LED	---	4" ABOVE MIRROR
2		SURFACE MOUNTED TUBE LIGHT double end (90 watts) with two chokes and 2 starters	---	2000MM
3		DOWN light LED LAMP	---	SURFACE
4		FLOOD LIGHT TEMPO LED WITH PHILIPS BIPH1 LED90W 220-240V 50W	---	AS PER ARCHITECT
5		100 WATTS LED BR3011LED14/NEW 100W 220-240 100W 220-240 DM PSR LIGHT ON 10M HIGH 1.5 POLE WITH FOUNDATION	---	GROUND
6		EXHAUST FAN	---	7'-0" ABOVE FC
7		DISTRIBUTION BOARD	---	4'-0" FROM FC
8		SURFACE MOUNTED TUBE LIGHT WITH length 1x40 WATTS LED ROD single end (40 watts) with	---	2000MM

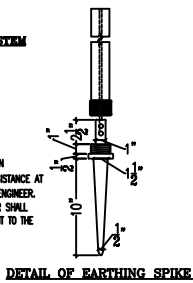
2 WIRING ACCESSORIES				
S.NO	SYMBOLS	DESCRIPTION	MAKE	MOUNTING HEIGHT
1		GANG TYPE SWITCH 10AMPS,INDICATES NUMBER OF SWITCHES ON GANG PLATE	---	+5'-0" FROM F.F.L
2		16 AMP SWITCH SOCKET FOR SPLIT AC ON GANG PLATE	---	AT WALL FROM F.F.L
3		3 PIN COMBINED SWITCH SOCKET 15 AMPS ON M.S JUNCTION BOX	---	+0'-0" FROM F.F.L
4		3 PIN COMBINED SWITCH SOCKET UNIVERSAL 13 AMP SOCKET ON M.S JUNCTION BOX	---	+0'-0" FROM F.F.L
5		CEILING FAN POINT WITH 5/8" M.S HOOK	---	ROOF SUSPENDED
		2x3 PIN COMBINED SWITCH SOCKET UNIVERSAL 13AMP SOCKET	---	AT WALL FROM F.F.L

CAPACITY OF CONDUITS						
S.NO	CAPACITY OF CONDUITS			MAXIMUM NUMBER OF CABLES IN PVC CONDUITS SIZES		
	NOMINAL CONDUCTOR SIZE (mm ²)	NO. & DIA OF WIRES	OVER ALL DIAMETER	3/4" DIA (20mm DIA)	1" DIA (25mm DIA)	1-1/4" DIA (32mm DIA)
1	1.5	1/1.38	3.1	10	16	30
2	2.5	1/1.78	3.5	8	14	23
3	2.5	7/0.67	3.8	7	12	20
4	4	7/0.85	4.3	5	9	15
5	10	7/1.04	4.9	4	7	12
6	16	7/1.35	6.2	2	4	7
7	16	7/1.78	7.3	-	3	5
8	25	7/2.14	9.0	-	2	3
9	35	19/1.53	10.3	-	-	2



NOTES FOR EARTHING SYSTEM

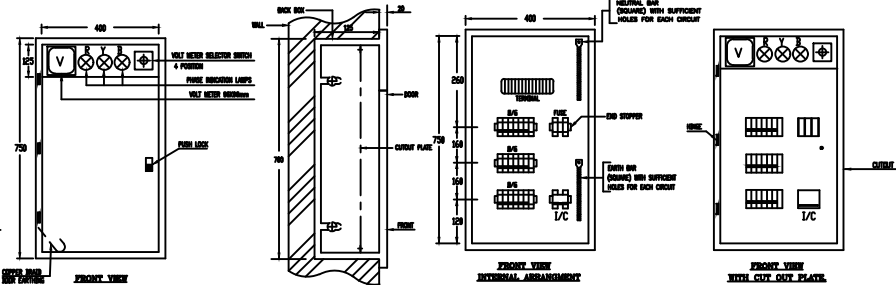
- EARTH BORE SHALL BE MADE AT 6"-0" AWAY FROM FOUNDATION.
- DISTANCE BETWEEN 2 EARTH BORES SHALL NOT BE LESS THAN 10 R (3m).
- COPPER CONDUCTOR AT TOP OF G.I PIPE SHALL BE BOLTED WITH THIMBLES, BRASS NUTS, BOLTS ETC.
- JOINTS SHALL BE COVERED WITH BITUMEN.
- CONTRACTOR TO MEASURE EARTHING RESISTANCE AT HIS EXPENSE IN THE PRESENCE OF SITE ENGINEER. BOTH THE SITE ENGINEER AND CONTRACTOR SHALL SIGN THE EARTH TESTING RESULT AND SUBMIT IT TO THE CLIENT FOR RECORD.



GENERAL NOTES:-

- 1 LEGEND.**
REFER TO LEGEND FOR THOSE SYMBOLS ONLY MENTIONED ON ALL LAYOUT PLANS. OTHER SYMBOLS SHOWN IN LEGEND BUT NOT ACTUALLY SHOWN ON LAYOUT DRAWINGS MAY PLEASE BE IGNORED.
- 2 ELECTRICAL WORKS.**
THE FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES SHALL BE FOLLOWED UNLESS ALL ELECTRICAL WORKS PERTAINING TO WIRING OF ELECTRICAL SYSTEMS SHALL STRICTLY CONFORM TO I.E.E LATEST EDITION OF RULES & REGULATIONS.
- 3 ELECTRICAL DRAWINGS**
ALL ELECTRICAL DRAWINGS SHALL BE READ IN CONJUNCTION WITH BOQ, TECHNICAL SPECIFICATIONS AND IN CO-ORDINATION WITH ARCHITECTURAL, STRUCTURAL, PLUMBING AND HVAC DRAWINGS.
- 4 DIMENSIONS ON ELECTRICAL LAYOUT PLANS**
ALL DIMENSIONS IF SHOWN ON THE ELECTRICAL LAYOUT PLANS ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO DO ALL NECESSARY CALCULATIONS TO ARRIVE AT THE ACTUAL DIMENSIONS/MEASUREMENTS IN CO-ORDINATION WITH ALL OTHER RELEVANT DRAWINGS OF OTHER SERVICES.
- 5 SHOP DRAWINGS**
THE ELECTRICAL CONTRACTOR SHALL PREPARE ELECTRICAL SHOP DRAWINGS WITH ALL NECESSARY RELEVANT DETAILS. THE SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER TENDER DRAWING BEFORE THE COMMENCEMENT OF ANY WORKS AT SITE.
- 6 CO-ORDINATION**
THE ELECTRICAL CONTRACTOR SHALL DO ALL NECESSARY CO-ORDINATION OF ELECTRICAL WORKS AND ALLIED SYSTEMS WITH ALL OTHER SERVICES AT SITE.
- 7 BALANCING OF ELECTRICAL LOADS**
ELECTRICAL LOADS ON ALL 3 PHASES SHALL BE BALANCED ON THE ELECTRICAL WORKS AT THE TIME OF TESTING AND COMMISSIONING OF THE ELECTRICAL INSTALLATIONS.
- 8 ELECTRICAL WIRING.**
ALL WIRING SHALL BE DONE IN PVC CONDUIT TO BE CONCEALED IN WALLS, SLABS, COLUMNS AND FLOORS OR AS SHOWN ON DRAWINGS.
- 9 THE WIRING SHOULD BE STARTED ONLY AFTER THE CONDUIT SYSTEM HAS BEEN COMPLETED AND ALL OUTLET BOXES ARE FIXED AT THEIR RESPECTIVE POSITIONS.**
- 10 PVC CONDUITS.**
ALL PVC CONDUIT SHALL BE OF 3/4" OR 1" DIA (DEPENDING UPON NUMBER OF WIRES) FROM SWITCH BOARD TO LIGHT POINTS & 1" DIA FROM DBs TO SWITCH BOARDS AND POWER SOCKETS OR AS SHOWN ON DRAWINGS.
- 11 LUBRICATION.**
NO LUBRICATION EXCEPT AS RECOMMENDED BY MANUFACTURER SHALL BE USED FOR PULLING OF WIRES IN PVC CONDUITS. NO OIL OF ANY KIND SHALL BE USED.
- 12 COLOUR CODING**
COLOUR CODING FOR WIRING SHALL BE AS FOLLOWS: RED, YELLOW AND BLUE FOR PHASES, BLACK FOR NEUTRAL AND GREEN / YELLOW FOR CPC (EARTH).
- 13 SIZE OF WIRES**
FOLLOWING SIZES OF PVC INSULATED WIRES WITH COPPER CONDUCTORS SHALL BE USED FOR INTERNAL WIRING, UNLESS STATED OTHERWISE.
- 12.1** 1.5mm sq PVC INSULATED WIRES SHALL BE USED FROM SWITCH BOARD TO LIGHT POINTS AND 5 Amps SOCKETS OR AS SPECIFIED IN B.O.Q
- 12.2** 2.5mm sq PVC INSULATED WIRES SHALL BE USED FROM DB TO SWITCH BOARDS FOR LIGHTING CIRCUITS.
- 12.3** 4mm sq OR 6mm sq PVC INSULATED WIRES OR AS SHOWN ON DRAWING/BOQ SHALL BE USED FOR WIRING FROM DB TO POWER SOCKETS.
- 12.4 BACK BOXES**
ALL BACK BOXES FOR SWITCHES & SOCKETS SHALL BE MADE OF POLYCARBONATE SHEET 16SWG OR AS SPECIFIED IN BOQ WITH EARTH TERMINAL SIZE OF BACK BOX SHALL CORRESPOND TO THE SIZE OF SWITCHES/SOCKETS.
- 13 EARTHING OF POINTS.**
ALL ELECTRICAL AND POWER SOCKETS SHALL BE PROPERLY EARTHED WITH 2.5mm sq PVC INSULATED WIRES OF COLOUR GREEN-YELLOW.
- 14 CAPACITY OF CONDUITS.**
THE NUMBER OF WIRES TO BE PULLED IN ANY CONDUIT FOR WIRING PURPOSES SHALL CONFORM TO I.E.E RULES & REGULATIONS
- 15 CONDUIT FOR LIGHT WIRING.**
WIRING SHALL BE DONE IN 3/4" & 1" DIA PVC CONDUIT FOR LIGHT POINTS AND CIRCUIT WIRING ON NORMAL/ GENERATOR SUPPLY OR AS SPECIFIED IN BOQ OR AS SHOWN ON DRAWINGS.
- 16 DISTRIBUTION BOARDS "LIGHT" & "POWER"**
ALL DISTRIBUTION BOARDS SHOWN ON DRAWINGS SHALL BE CONCEALED IN WALL & INSTALLED AT 4FT (1000mm) F.F.L OR AS SHOWN IN LEGEND/DRAWINGS.
- 17 TELEPHONE CONDUIT**
PVC CONDUIT SHALL BE 1"(25mm) DIA FOR WIRING OF TELEPHONE POINTS. PVC CONDUIT SHALL BE BURIED IN FLOOR /SLAB & WALLS FROM TDBs TO TELEPHONE POINTS, OR AS SHOWN ON DRAWINGS./B.O.Q
- 18 FIRE ALARM WIRING.**
PVC CONDUIT SHALL BE 1"(25mm) DIA FOR WIRING OF FIRE ALARM POINTS. PVC CONDUIT SHALL BE BURIED IN FLOOR /SLAB & WALLS FROM FACP TO FIRE ALARM POINTS, OR AS SHOWN ON DRAWINGS./B.O.Q
- 19 FIRE ALARM JUNCTION BOX (FAJB).**
G.I JUNCTION BOX 225x150x100mm 16 SWG WITH COVER CONCEALED IN WALL AT 225mm BELOW SLAB TO FACILITATE PULLING OF FIRE ALARM CABLES.
- 20 CLOSE CIRCUIT TV (CCTV) WIRING.**
PVC CONDUIT SHALL BE 1"(25mm) DIA FOR WIRING OF CCTV SYSTEM. PVC CONDUIT SHALL BE BURIED IN SLAB, WALLS & COLUMNS OR AS SHOWN ON DRAWING/BOQ
- 21 CLOSE CIRCUIT TV JUNCTION BOX (CCJB).**
G.I JUNCTION BOX 225x150x100mm 16 SWG WITH COVER CONCEALED IN WALL AT 225mm BELOW SLAB TO FACILITATE PULLING OF CLOSE CIRCUIT TV CABLES.
- 22 OTHER SYSTEMS.**
25mm DIA PVC CONDUIT SHALL BE USED FOR WIRING OF ALL OTHER SYSTEMS UNLESS OTHERWISE MENTIONED ON PLANS OR AS SPECIFIED IN B.O.Q
- 23 ELECTRICAL CONSULTANT.**
ELECTRICAL CONTRACTOR TO CONSULT ELECTRICAL CONSULTANT/ENGINEER FOR ANY FURTHER CLARIFICATIONS. NO ASSUMPTIONS SHOULD BE MADE.
- 24 ELECTRICAL TESTS.**
CONTRACTOR SHALL CARRY OUT ALL ELECTRICAL TESTS AT HIS EXPENSE THROUGH LICENSED ELECTRICAL SUPERVISOR IN THE PRESENCE OF ENGINEER INCHARGE OR HIS REPRESENTATIVE.

TENTATIVE CONSTRUCTIONAL DETAIL OF:- DISTRIBUTION BOARD (DB) RECESSED TYPE.



NOTE:- DIMENSIONS SHOWN ARE INDICATIVE ONLY AND NOT NECESSARILY BE FOLLOWED. HOWEVER ACTUAL DIMENSIONS OF DB SHALL BE GIVEN BY DB MANUFACTURER/SUPPLIER

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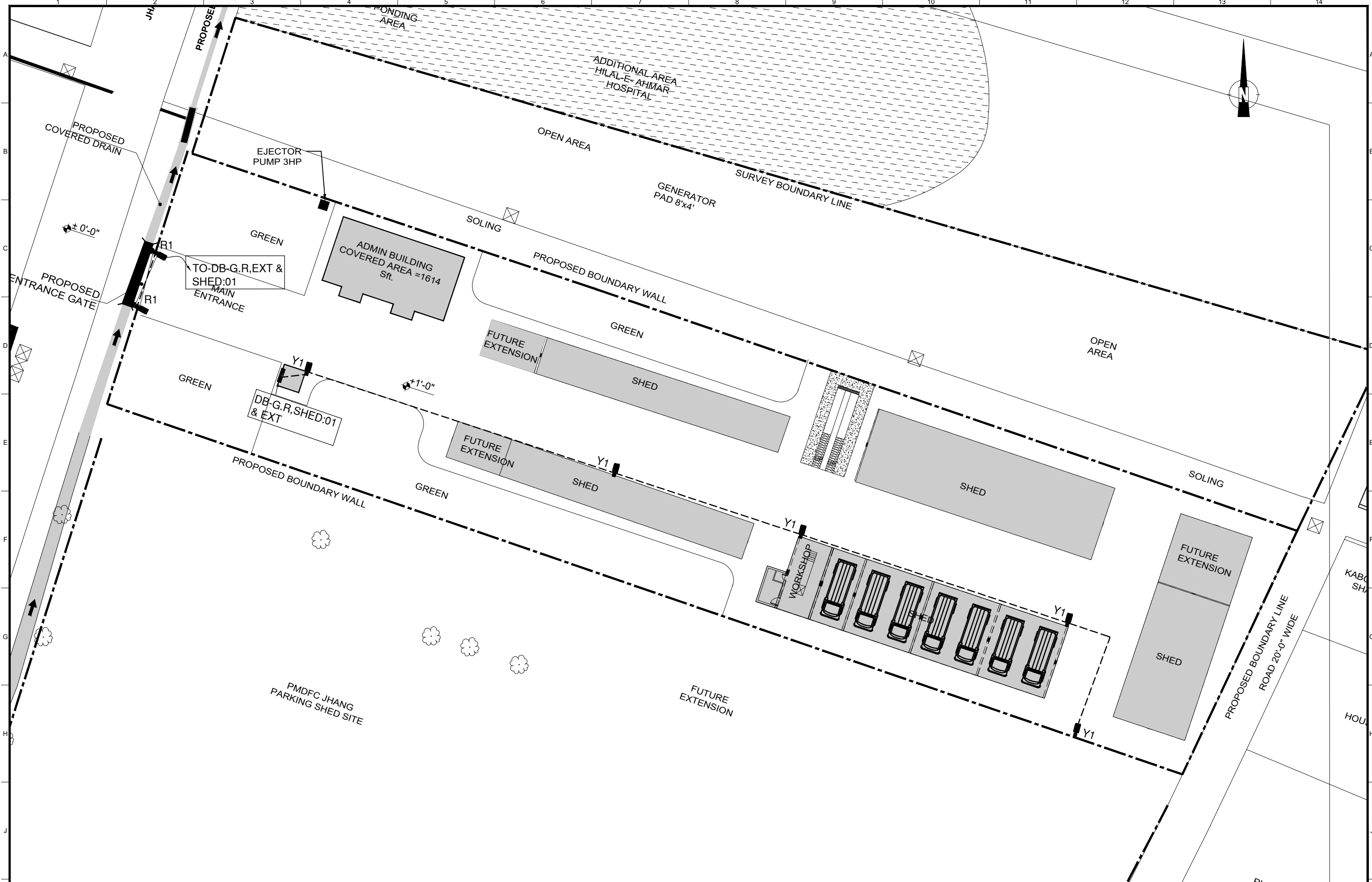
PROJECT: **PUNJAB CITIES PROGRAM (PCP)**
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 303


DRAWING TITLE: **LEGEND & NOTES**

REV.	DATE	DESCRIPTION

DRAWN BY: **FATIMA ZAHRA**
CHECKED BY: **AMIR RIZWAN**
DATE: **FEB-2023**

DRAWING NO: **E-00**
SCALE: **1 OF 1**
SHEET: **1 OF 1**
JOB NO: **488-01**



CLIENT:
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 304

DRAWING TITLE:
EXTERNAL LIGHTING LAYOUT PLAN

REV.	DATE	DESCRIPTION

DRAWN BY:
FATIMA ZAHRA

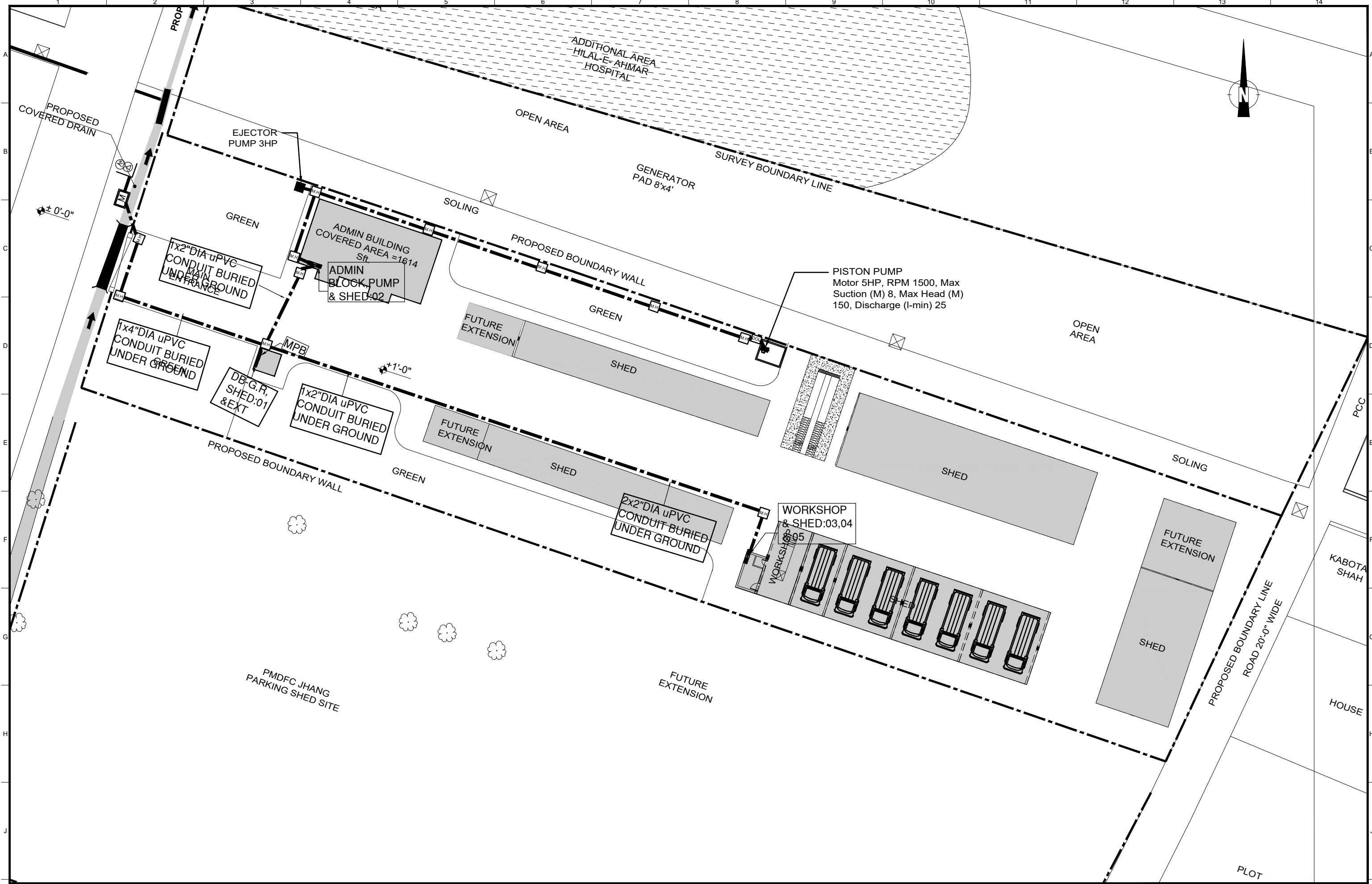
CHECKED BY:
AMIR RIZWAN


DATE:
FEB, 2023

DRAWING NO:
E-01

SCALE:
UNIT=FEET
1"=450'

SHEET:
1 OF 1
JOB NO:
488-01



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

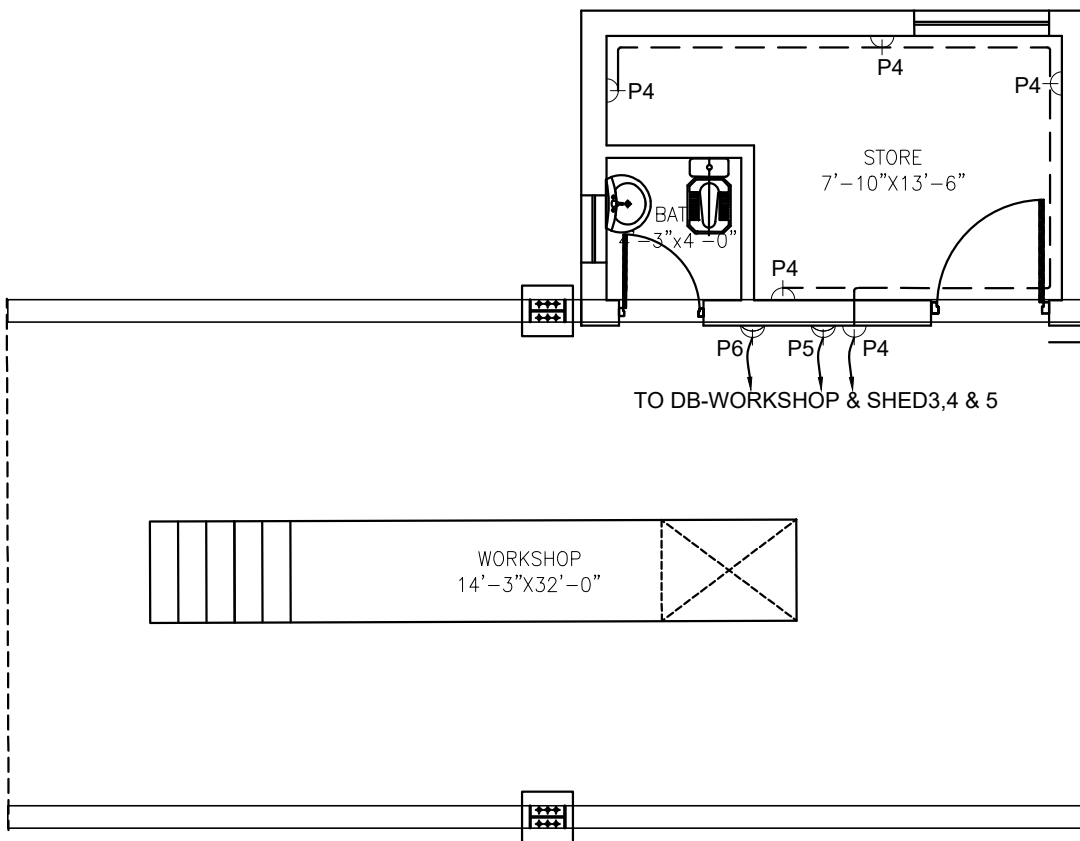
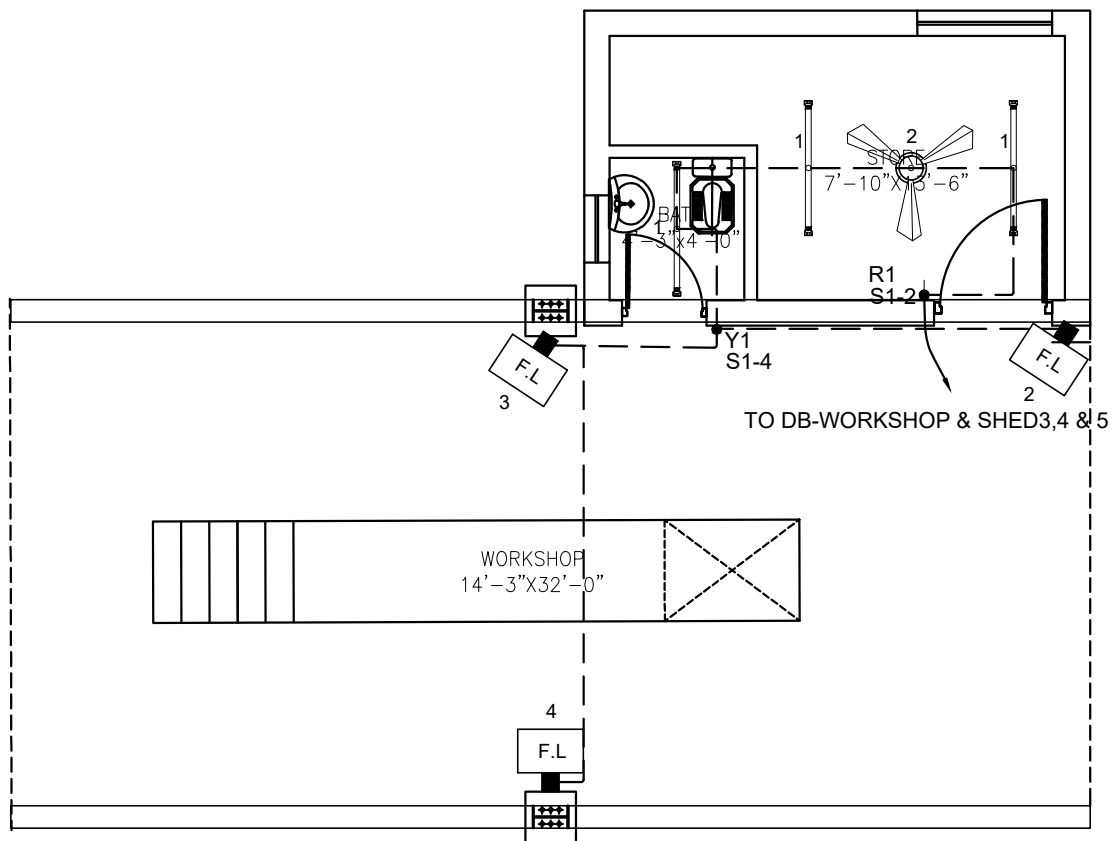
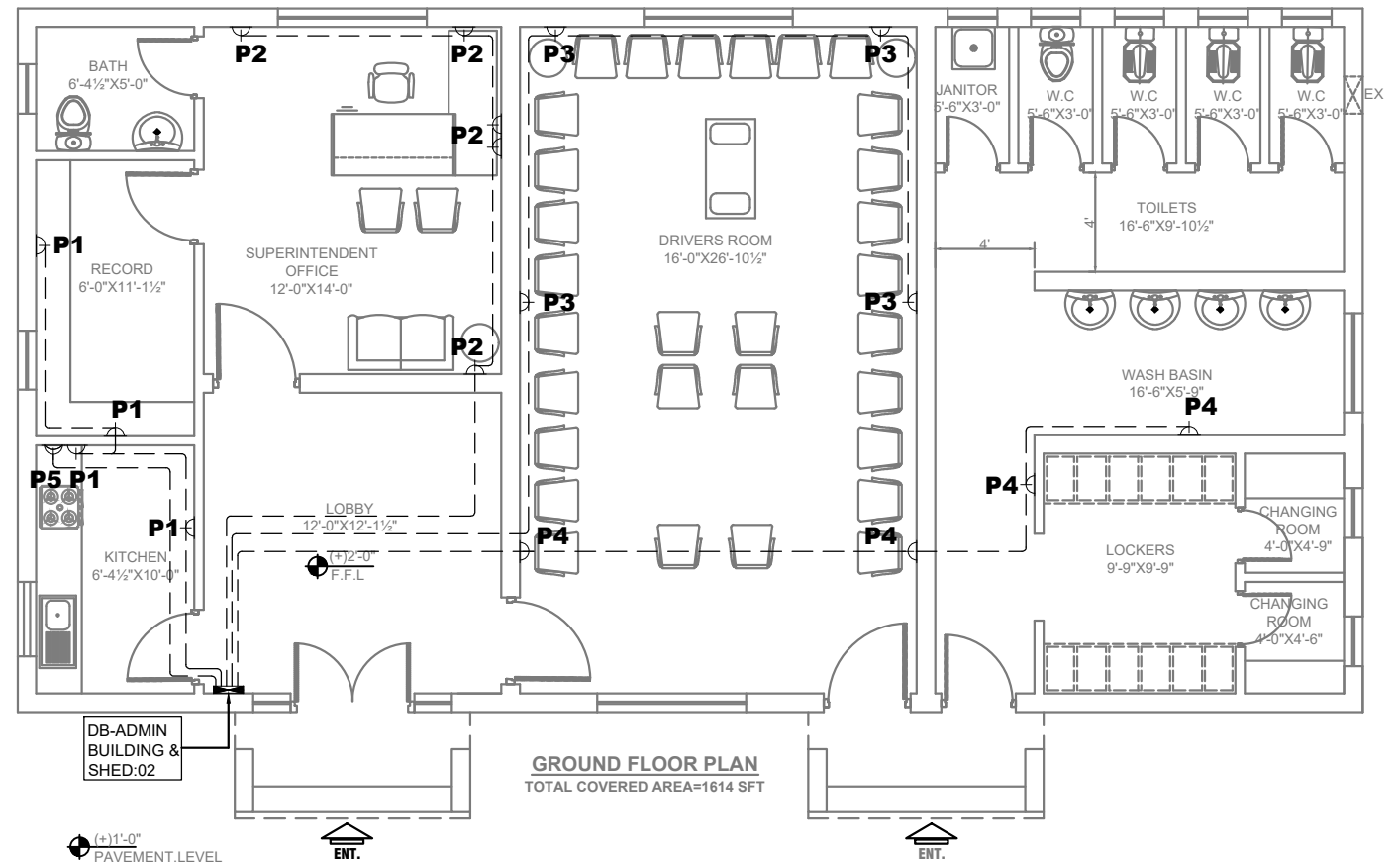
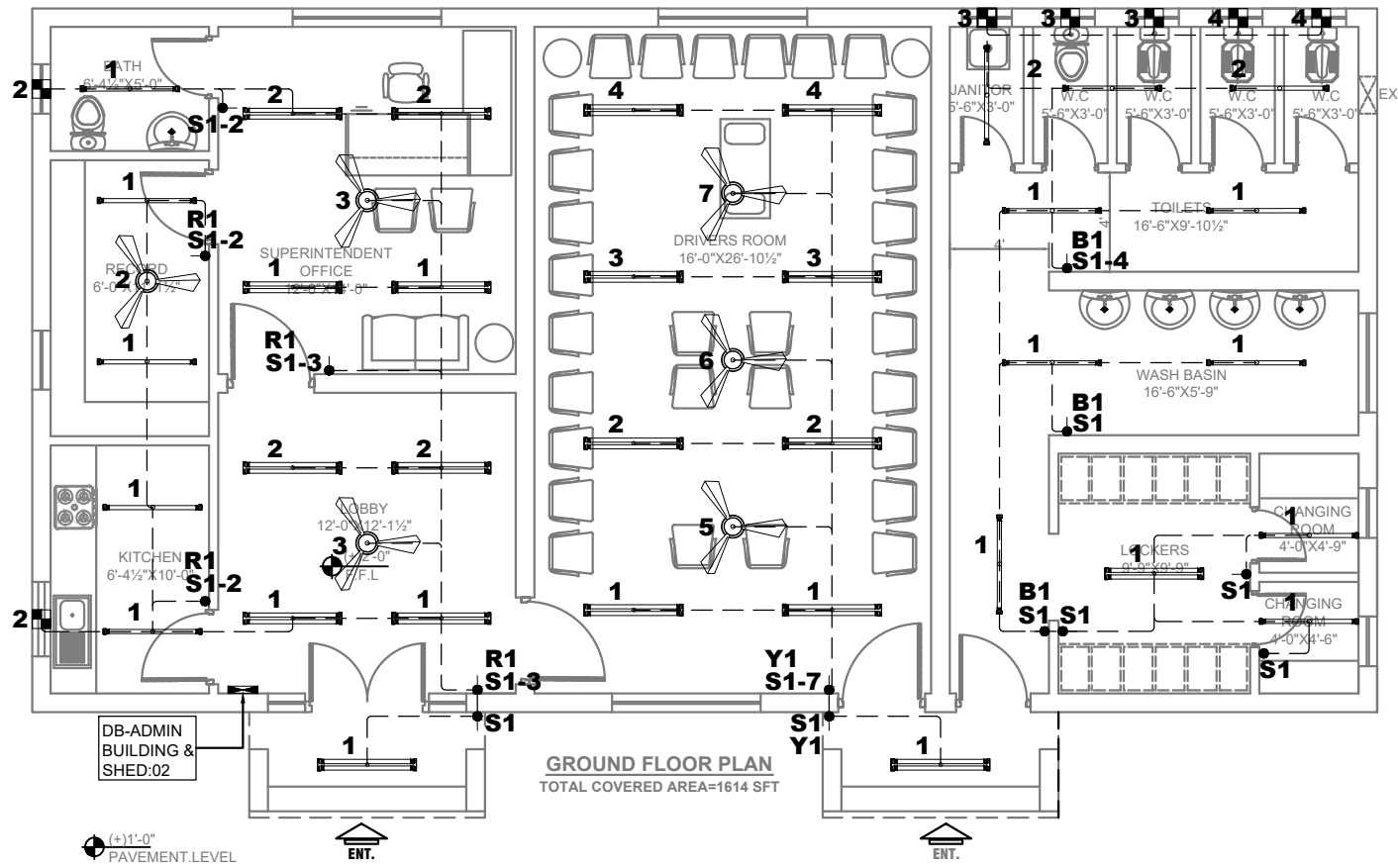
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 305

DRAWING TITLE:
CABLE ROUTE LAYOUT PLAN

REV.	DATE	DESCRIPTION

DRAWN BY: FATIMA ZAHRA	DRAWING NO: E-02
CHECKED BY: AMIR RIZWAN	SCALE: UNIT=FEET 1"=450'
DATE: FEB, 2023	SHEET: 1 OF 1 JOB NO: 488-01



CLIENT:
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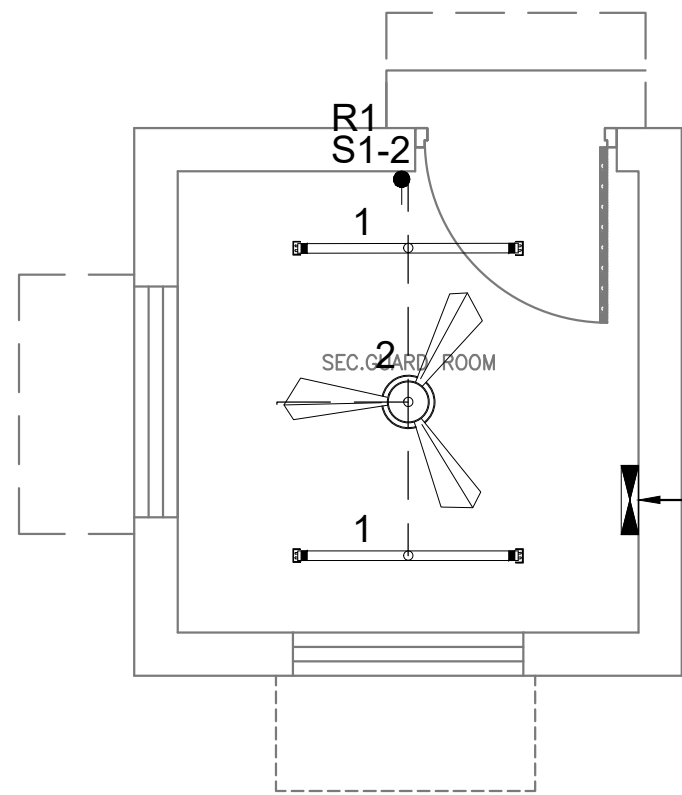
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 306

DRAWING TITLE:
LIGHTING & POWER LAYOUT PLAN
ADMIN BLOCK & WORKSHOP

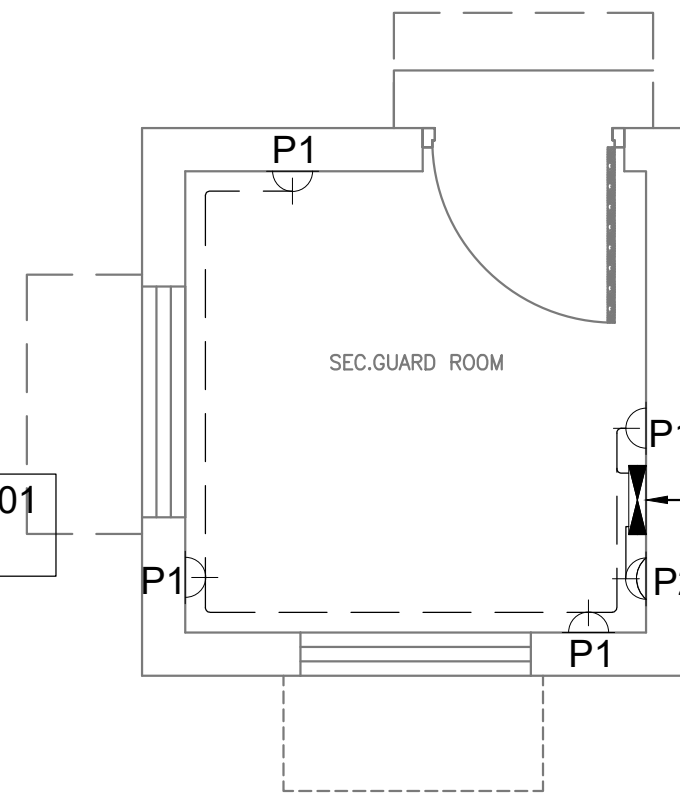
REV.	DATE	DESCRIPTION

DRAWN BY:
 FATIMA ZAHRA
 CHECKED BY:
 AMIR RIZWAN
 DATE:
 FEB, 2023

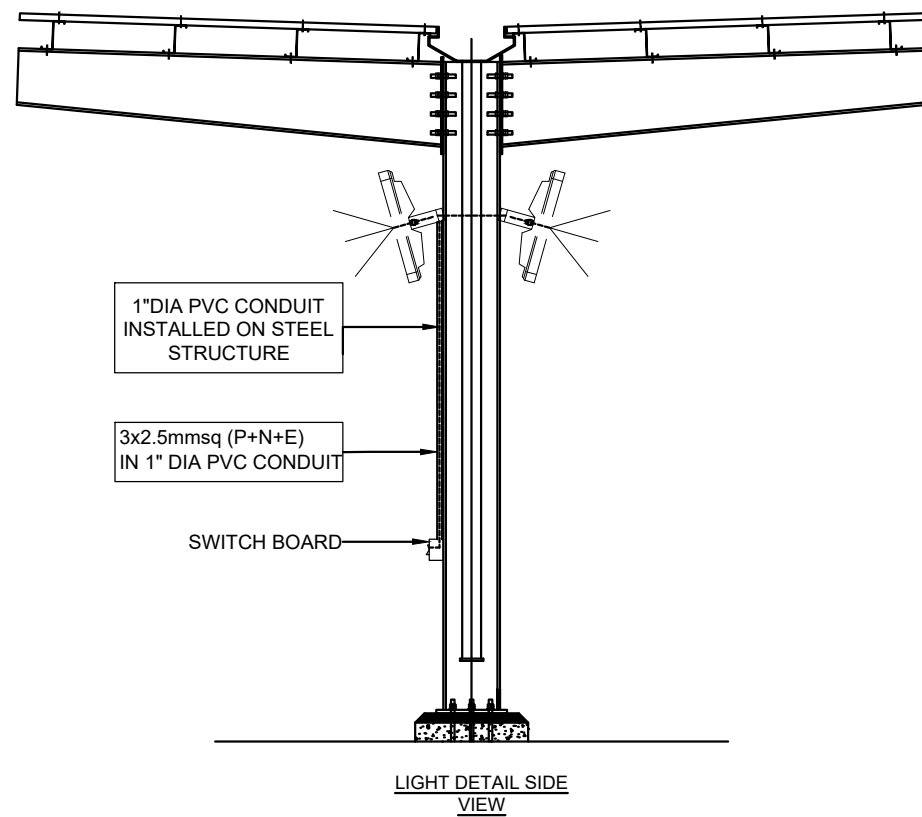
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E-03
 SCALE:
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 SHEET:
 1 OF 1
 JOB NO:
 488-01



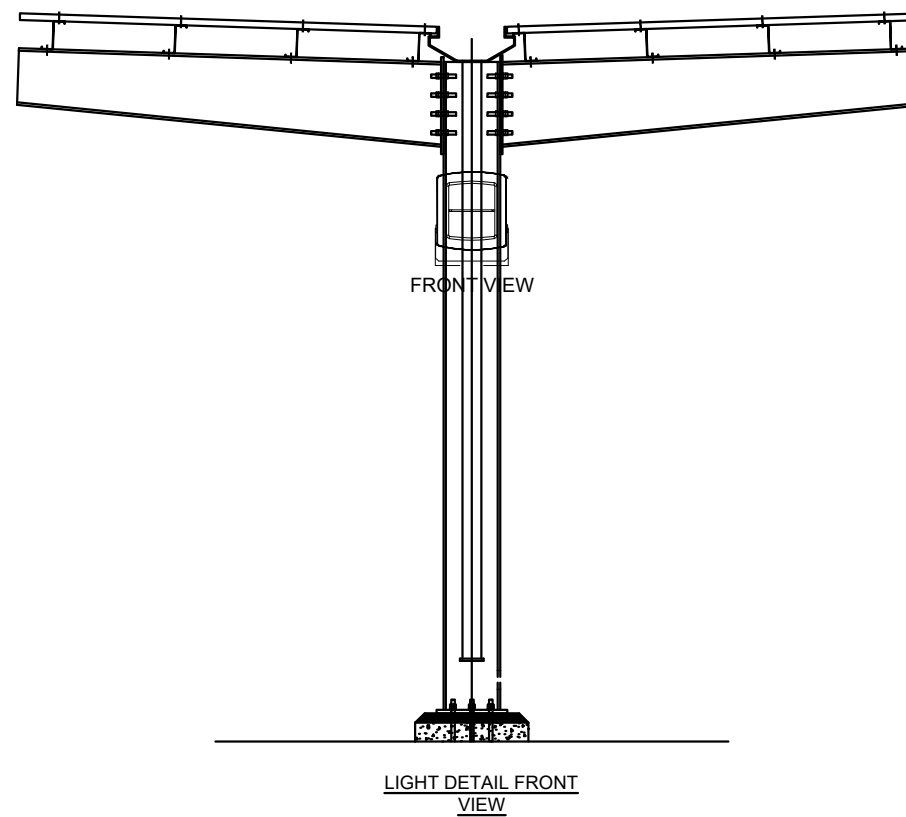
GEOUND FLOOR GURD ROOM



GEOUND FLOOR GURD ROOM



LIGHT DETAIL SIDE VIEW



LIGHT DETAIL FRONT VIEW

CLIENT:
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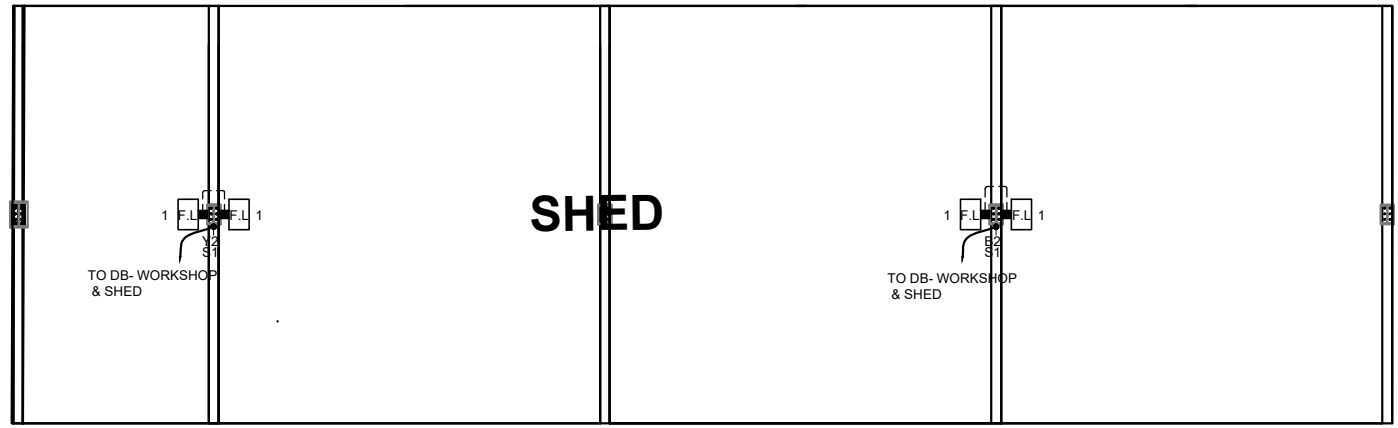
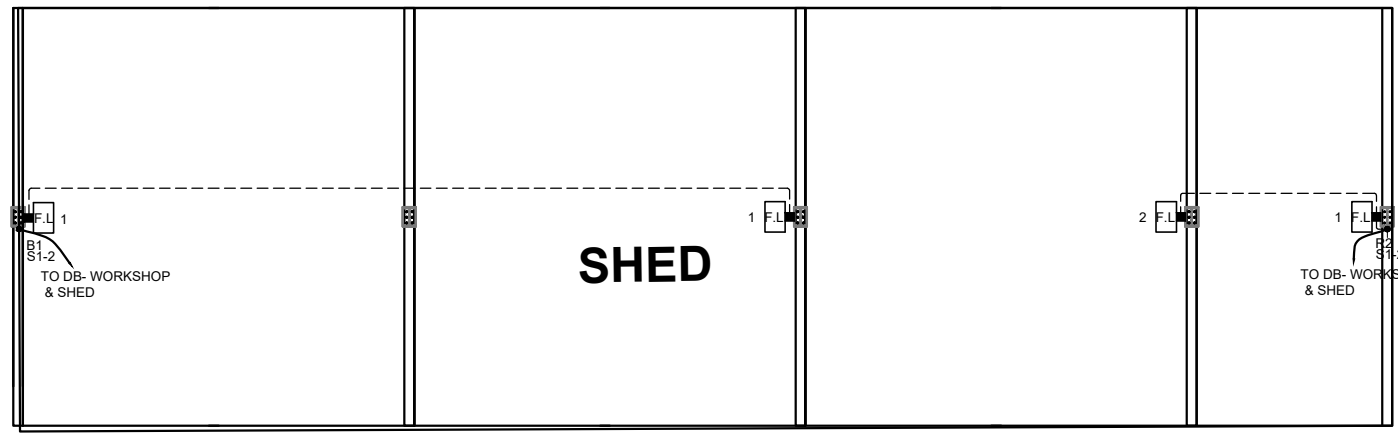
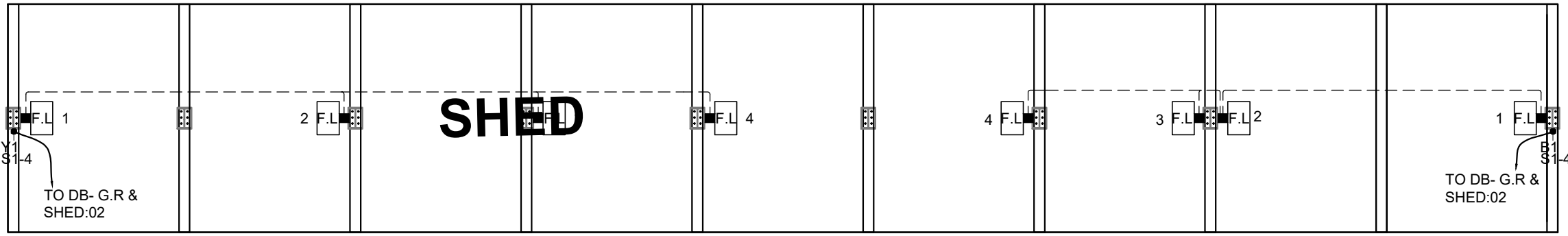
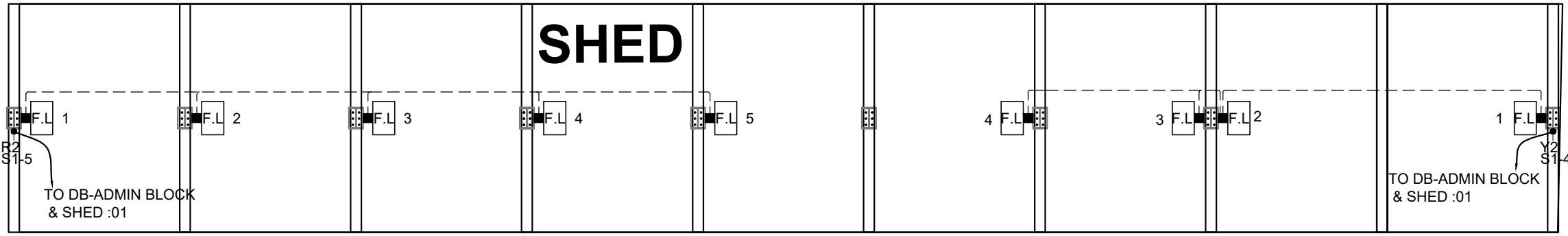
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 307

DRAWING TITLE:
LIGHTING & POWER LAYOUT PLAN GUARD ROOM & DETAIL

REV.	DATE	DESCRIPTION

DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
AMIR RIZWAN
 DATE:
FEB, 2023

DRAWING NO:
E-04
 SCALE:
UNIT=FEET
1/4"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01



CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

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PROJECT:

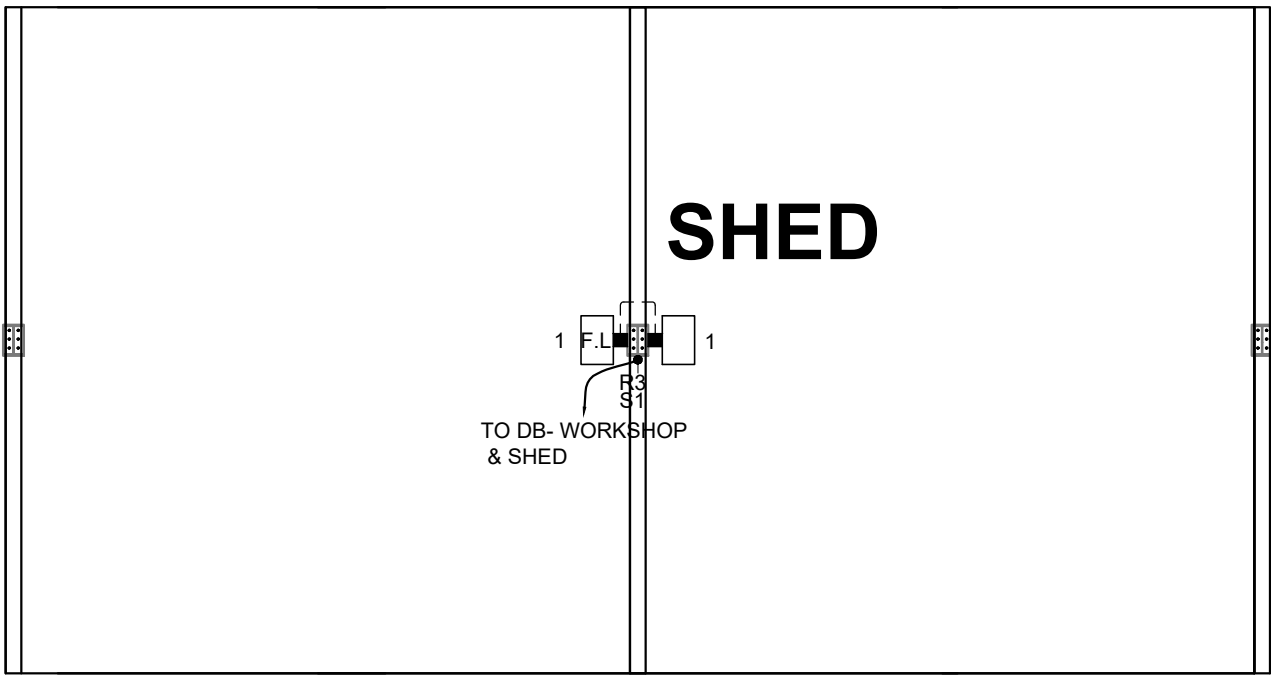
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 308


DRAWING TITLE:

**LIGHTING LAYOUT PLAN
 SHED**

REV.	DATE	DESCRIPTION

DRAWN BY: FATIMA ZAHRA	DRAWING NO: E-05
CHECKED BY: AMIR RIZWAN	
DATE: FEB, 2023	SCALE: 1/4"=1'-0"
	SHEET: 1 OF 1
	JOB NO: 488-01



CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

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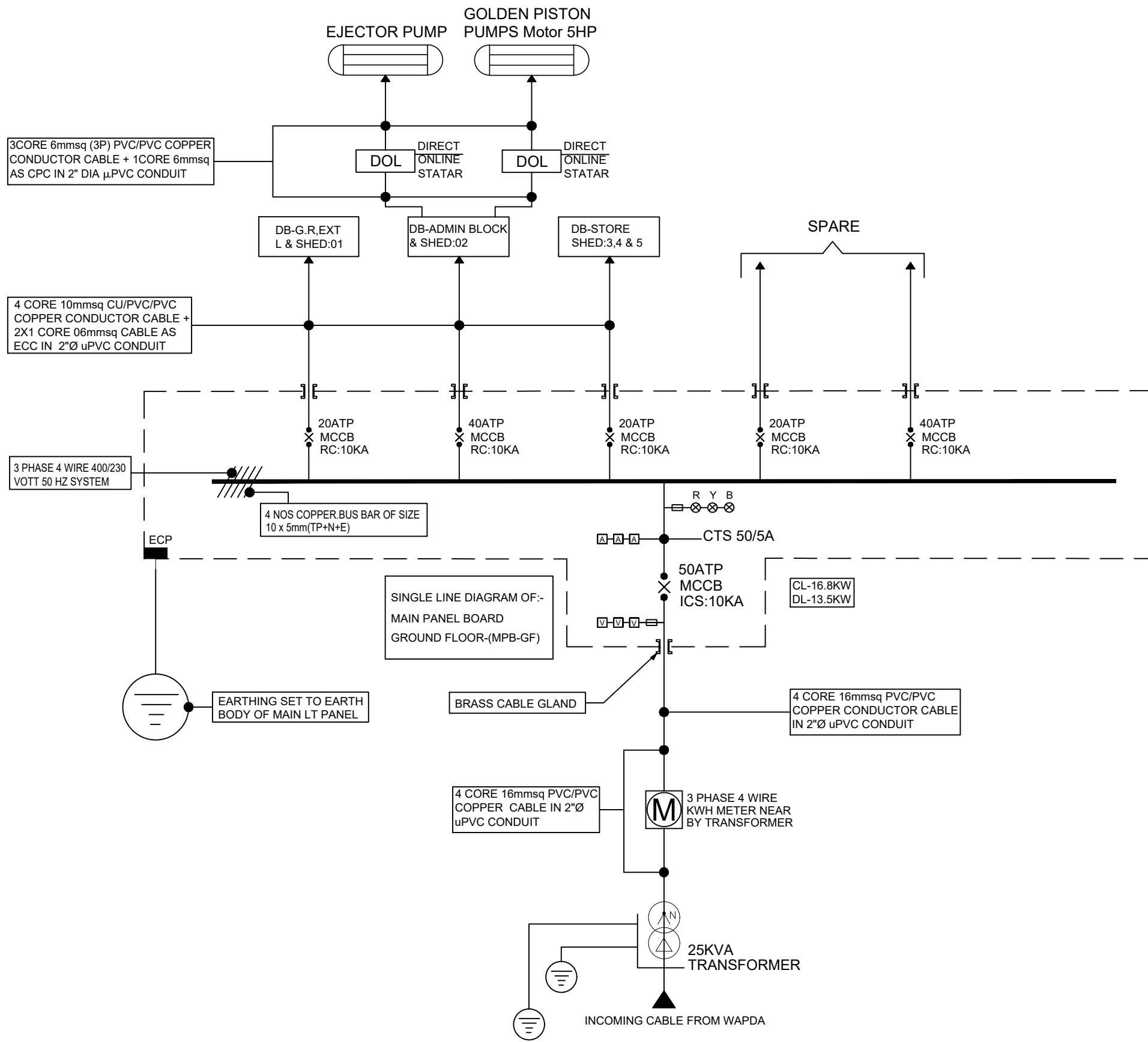
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 309

DRAWING TITLE:
LIGHTING LAYOUT PLAN SHED


REV.	DATE	DESCRIPTION
-	-	-
-	-	-
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-	-	-

DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
AMIR RIZWAN
 DATE:
FEB, 2023

DRAWING NO:
E-06
 SCALE:
1/4"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01



SINGLE LINE DIAGRAM OF:-
MAIN PANEL BOARD
GROUND FLOOR-(MPB-GF)

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

CONSULTANTS:

JERS CONSULTANCY (PVT) LTD
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

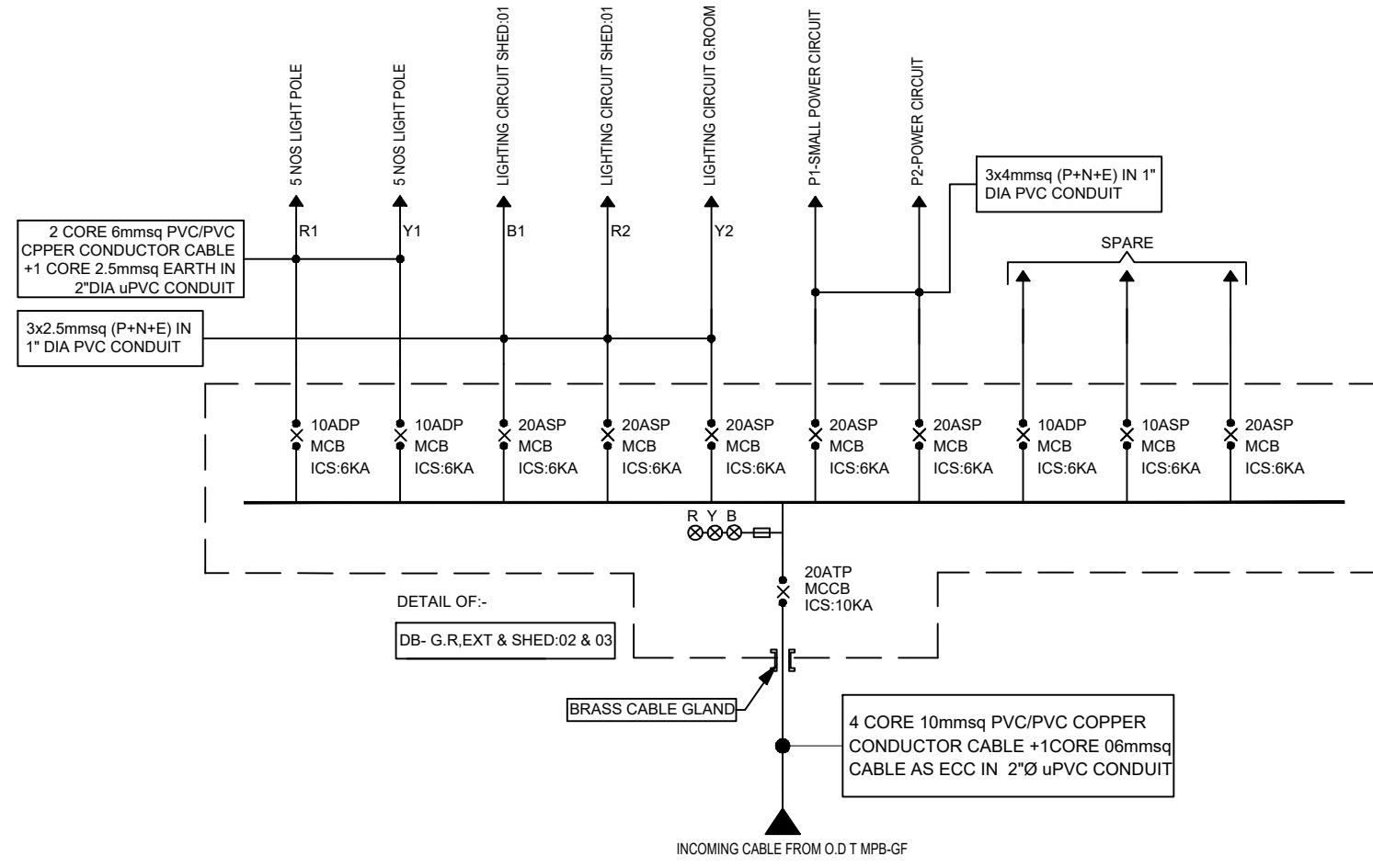
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 310

DRAWING TITLE:
**SINGLE LINE DIAGRAM OF:-
 MAIN PENAL BOARD**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
M.UMAR
 CHECKED BY:
AAMIR RIZWAN
 DATE:
FEB-2023

DRAWING NO:
SLD-01
 SCALE:
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



CLIENT:
 **PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)**

CONSULTANTS:
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 311

DRAWING TITLE:
DETAIL OF:- DB-EXT L & SHED:01

REV.	DATE	DESCRIPTION
-	-	-
-	-	-
-	-	-
-	-	-

DRAWN BY:
M.UMAR

CHECKED BY:
AAMIR RIZWAN

DATE:
FEB-2023

DRAWING NO:
SLD-02

SCALE:
NTS

SHEET:
1 OF 1

JOB NO:
488-01

