



Local Government & Community Development Department

Punjab Cities Program Construction of SWM Parking Area in Okara City

PC-I

Estimated Cost Million PKR. 81.488

August, 2022

Municipal Committee Okara



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Punjab Cities Program

PC-I Form for Construction of SWM Parking Area in Okara City

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PC-I FORM
for
Construction of Parking Area in Okara 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 Okara city	
2.Location	Okara is the capital city of Okara District in the Punjab province of Pakistan. The city is located southwest of the city of Lahore at a distance of 128.6 km and Faisalabad is 100 km bypassing away Ravi River. The nearest major city to Okara is Sahiwal. The city coordinates are 30.81' North latitude, and 73.45' East longitude. Location map of the city is attached in Annexure-A	
3. Authorities responsible for		
i- Sponsoring	Government of the Punjab (through World Bank funding)	
ii- Execution	Municipal Committee Okara	
iii- Operation and Maintenance	Municipal Committee Okara	
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 now in ADP 2022-23 - under General Serial No-1769 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 PSDP/ADP	PKR. 1329.90.00 million under ADP 2022-23 General Serial No 1769 as described above.
5. Project objectives and its relationship with sector objectives	<p><u>Sector Objectives</u> 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> 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. 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 Okara 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 Okara for provision of better solid waste management facilities to the people of Okara.</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</p>

	deterioration and compromise its safety that will lead to non-sustainability of solid waste management.																								
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 7.34 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: 36-Jhory Road near Akbbar chowk</p> <table border="1"> <thead> <tr> <th>S. N.</th> <th>Detail of works</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Boundary wall and gate</td> </tr> <tr> <td>2</td> <td>Sheds for vehicles with trusses and Aluzinc sheeting at the top</td> </tr> <tr> <td>3</td> <td>Office room with toilet</td> </tr> <tr> <td>4</td> <td>Workshop</td> </tr> <tr> <td>5</td> <td>Washing ramp</td> </tr> <tr> <td>6</td> <td>Sitting room for staff with toilets</td> </tr> <tr> <td>7</td> <td>Parking aprons</td> </tr> <tr> <td>8</td> <td>Guard room</td> </tr> <tr> <td>9</td> <td>Generator pad</td> </tr> <tr> <td>10</td> <td>Water supply and drainage system</td> </tr> <tr> <td>11</td> <td>Approach road</td> </tr> </tbody> </table>	S. N.	Detail of works	1	Boundary wall and gate	2	Sheds for vehicles with trusses and Aluzinc sheeting at the top	3	Office room with toilet	4	Workshop	5	Washing ramp	6	Sitting room for staff with toilets	7	Parking aprons	8	Guard room	9	Generator pad	10	Water supply and drainage system	11	Approach road
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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 Okara 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="558 280 1460 1601"> <thead> <tr> <th data-bbox="558 280 678 414">S. No</th> <th data-bbox="678 280 1284 414">Item of works</th> <th data-bbox="1284 280 1460 414">Cost (PKR million)</th> </tr> </thead> <tbody> <tr><td>1</td><td>Office Building</td><td>1.259</td></tr> <tr><td>2</td><td>Sitting Room</td><td>1.118</td></tr> <tr><td>3</td><td>Guard Room</td><td>0.585</td></tr> <tr><td>4</td><td>Store Room</td><td>2.249</td></tr> <tr><td>5</td><td>Workshop</td><td>2.968</td></tr> <tr><td>6</td><td>Parking Shed (Size 150' X 32')</td><td>13.462</td></tr> <tr><td>7</td><td>Parking Shed (Size 120' X 32')</td><td>10.845</td></tr> <tr><td>8</td><td>Parking Shed (Size 72' X 32') (2 Nos.)</td><td>13.138</td></tr> <tr><td>9</td><td>Washing Pit</td><td>0.518</td></tr> <tr><td>10</td><td>Generator Pad</td><td>0.164</td></tr> <tr><td>11</td><td>Pump Pad</td><td>0.015</td></tr> <tr><td>12</td><td>Septic Tank</td><td>0.296</td></tr> <tr><td>13</td><td>External Boundary Wall + Tuff Paver + Lawn</td><td>15.382</td></tr> <tr><td>14</td><td>External Plumbing Work</td><td>1.019</td></tr> <tr><td>15</td><td>External Electrical Work</td><td>8.416</td></tr> <tr><td>16</td><td>Tube Well</td><td>4.383</td></tr> <tr><td>17</td><td>Environmental Health & Safety Cost</td><td>0.112</td></tr> <tr><td>18</td><td>Dismantling Work</td><td>0.221</td></tr> <tr><td></td><td style="text-align: right;">Total cost</td><td>76.157</td></tr> <tr><td></td><td>Contingencies @2%</td><td>1.523</td></tr> <tr><td></td><td>Punjab Sales Tax @5%</td><td>3.807</td></tr> <tr><td></td><td style="text-align: right;">Grand Total</td><td>81.488</td></tr> <tr><td colspan="3">See Annexure-B for details</td></tr> </tbody> </table>	S. No	Item of works	Cost (PKR million)	1	Office Building	1.259	2	Sitting Room	1.118	3	Guard Room	0.585	4	Store Room	2.249	5	Workshop	2.968	6	Parking Shed (Size 150' X 32')	13.462	7	Parking Shed (Size 120' X 32')	10.845	8	Parking Shed (Size 72' X 32') (2 Nos.)	13.138	9	Washing Pit	0.518	10	Generator Pad	0.164	11	Pump Pad	0.015	12	Septic Tank	0.296	13	External Boundary Wall + Tuff Paver + Lawn	15.382	14	External Plumbing Work	1.019	15	External Electrical Work	8.416	16	Tube Well	4.383	17	Environmental Health & Safety Cost	0.112	18	Dismantling Work	0.221		Total cost	76.157		Contingencies @2%	1.523		Punjab Sales Tax @5%	3.807		Grand Total	81.488	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 August, 2022</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 Okara 2nd biannual of year 2022). 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 gate	100%	
	2	Sheds for vehicles with trusses and Aluzinc sheeting at the top	100%	
	3	Office room with toilet	100%	
	4	Workshop	100%	
	5	Washing ramp	100%	
	6	Sitting room for staff with toilets	100%	
	7	Parking aprons	100%	
	8	Guard room	100%	
	9	Generator pad	100%	
	10	Water supply and drainage system	100%	
	11	Approach road	100%	
12	Contingencies & PRS Taxes	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	Office Building	1.259	1.259
	2	Sitting Room	1.118	1.118
	3	Guard Room	0.585	0.585
	4	Store Room	2.249	2.249
	5	Workshop	2.968	2.968
	6	Parking Shed (Size 150' X 32')	13.462	13.462
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	9	Washing Pit	0.518	0.518
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	13	External Boundary Wall + Tuff Paver + Lawn	15.382	15.382
	14	External Plumbing Work	1.019	1.019
	15	External Electrical Work	8.416	8.416
16	Tube Well	4.383	4.383	
17	Environmental Health & Safety Cost	0.112	0.112	

	18	Dismantling Work	0.221	0.221
		PST contingencies	5.331	5.331
		Total	81.488	81.488
8-Annual recurrent cost after completion of the project and source of financing	Cost in Million = Rs. 1.061 (Details are attached as 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 Okara 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 Okara 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 28 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 Okara City for solid waste transportation and other MC vehicles. So there is a large gap between the supply and demand.			

v-Designed capacity and output of the project	<p>1)-Table showing details of the parking area is given below:</p> <table border="1" data-bbox="574 235 1471 481"> <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>36-Jhory Road near Akbar chowk</td> <td>As listed in section-7</td> <td>4</td> <td>7.34 Kanals</td> <td>1 No=150'x32' 1 No=120'x32' 2 Nos =(72'x32')</td> </tr> </tbody> </table> <p>2)-Parking shed is designed for 10-year life. 3)-This Parking shed is designed for 28 vehicles of SWM Machinery.</p>	Location	Components	No. of Sheds	Area		Total area	Shed area & Nos.	36-Jhory Road near Akbar chowk	As listed in section-7	4	7.34 Kanals	1 No=150'x32' 1 No=120'x32' 2 Nos =(72'x32')
Location	Components				No. of Sheds	Area							
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<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="558 689 1471 1041"> <tbody> <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> </tbody> </table> <p>This project will be funded under this financing.</p>	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		
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b) Equity	<p>A. Loan/grant to MC The amount of loan converted to grant to MC Okara will be Rs 65.190 million. The financing of the project will be as give n below:</p> <table border="1" data-bbox="582 1265 1471 1478"> <tbody> <tr> <td>Grant to MC Okara from World Bank (80% of cost of PC-I)</td> <td>PKR 65.190 million</td> </tr> <tr> <td>20% Co-finance by MC</td> <td>PKR 16.297 million</td> </tr> <tr> <td>Total cost of project</td> <td>PKR 81.488 million</td> </tr> </tbody> </table> <p>B. Project Cost =Rs. 81.488 million</p> <p>*The loan is from World Bank to Government of Pakistan/Punjab which will trickle down to MC Okara as grant.</p>	Grant to MC Okara from World Bank (80% of cost of PC-I)	PKR 65.190 million	20% Co-finance by MC	PKR 16.297 million	Total cost of project	PKR 81.488 million						
Grant to MC Okara from World Bank (80% of cost of PC-I)	PKR 65.190 million												
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Total cost of project	PKR 81.488 million												
c) Grants	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.												
d) Weighted cost of capital	Nil												
11-Project benefits and analysis													
i.Financial:	<ul style="list-style-type: none"> No income will be generated from the project and hence the Financial Analysis is not required. 												

Income to the project with assumption	<ul style="list-style-type: none"> • 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 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,</p>

	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).												
iv. Quantifiable project outputs	The quantifiable project out puts have been given above in Sr. No-9 (V). The social benefits to the citizen have been described at Sr. No-11(ii).												
v. Unit cost analysis	<p>A) Capital Unit Cost The unit cost analysis is produced below;</p> <table border="1"> <tr> <td>Project capital cost</td> <td>PKR 81.488 million</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>425,593 persons</td> </tr> <tr> <td>Unit capital cost per capita</td> <td>PKR 191</td> </tr> </table> <p>B)-Unit R&M cost:</p> <table border="1"> <tr> <td>Annual R&M cost</td> <td>1,061,574</td> </tr> <tr> <td>Population of the city in year 2023</td> <td>425,593 persons</td> </tr> <tr> <td>Unit R&M cost per capita</td> <td>PKR 2.49</td> </tr> </table>	Project capital cost	PKR 81.488 million	Population of the city in year 2023	425,593 persons	Unit capital cost per capita	PKR 191	Annual R&M cost	1,061,574	Population of the city in year 2023	425,593 persons	Unit R&M cost per capita	PKR 2.49
Project capital cost	PKR 81.488 million												
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Unit capital cost per capita	PKR 191												
Annual R&M cost	1,061,574												
Population of the city in year 2023	425,593 persons												
Unit R&M cost per capita	PKR 2.49												
vi. Employment generation (direct and indirect)	<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 • Environmental and social experts • Contract management experts <p>b) Consultants</p>												

	<p>PMDFC has employed consultants for detailed design and resident supervision of the projects who have deployed their staff for detailed design and resident supervision of the project.</p> <p><i>c) Municipality</i> MC Okara has regular staff like engineers, sub engineers and other administrative & accounts keeping staff which will be responsible for execution of the project and contract management. No additional staff will be needed for execution of this project</p> <p><i>d) Contractor</i> The contractor responsible for execution of the sub project will employ skilled and un-skilled labor on this work.</p> <p>Indirect Employment Indirect employment for production of material such as cement, steel, stone metal, bitumen, bricks etc. will be generated.</p>
vii. Impacts of delays on project cost and viability	<p>The impact of delay in project implementation will result in;</p> <ul style="list-style-type: none"> • Increased project cost due to escalation in cost of material and labor. • Deterioration of vehicles due to weathering effects • Recurrent watch and ward problems for the delayed period
12-Implementation Schedule	
a) Indicate starting and completion date of the project	The project is anticipated to commence by October, 2022 and to be completed by March 2023 with project implementation period of 06 months.
b) Item wise/year wise schedule in line chart	The Gant chart has been attached at Annexure-D
13- Management Structure and manpower requirements	
i. Administrative arrangements for the implementation of the project	<p>ii. Planning & design of the project The project has been designed by the consultants employed by PMDFC and will also carry out the resident supervision of the project.</p> <p>iii. Preparation of cost estimation The cost estimates have been prepared by the design consultants by actual measurements and requirements at site. The execution of the 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 Okara 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 Okara 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
<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 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</p>		

	<p>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	<p>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.</p>

Prepared by	JERS Consultancy (Pvt) Ltd	Stamp & Signatures	
Checked by	Municipal officer (Infrastructure) MC Okara	Stamp & Signatures	
	Chief Officer MC Okara	Stamp & Signatures	
Forwarded by	Administrator MC Okara	Stamp & Signatures	

Annexure-1

Annual Recurrent Cost

Annual Recurrent Cost after Completion of the Project

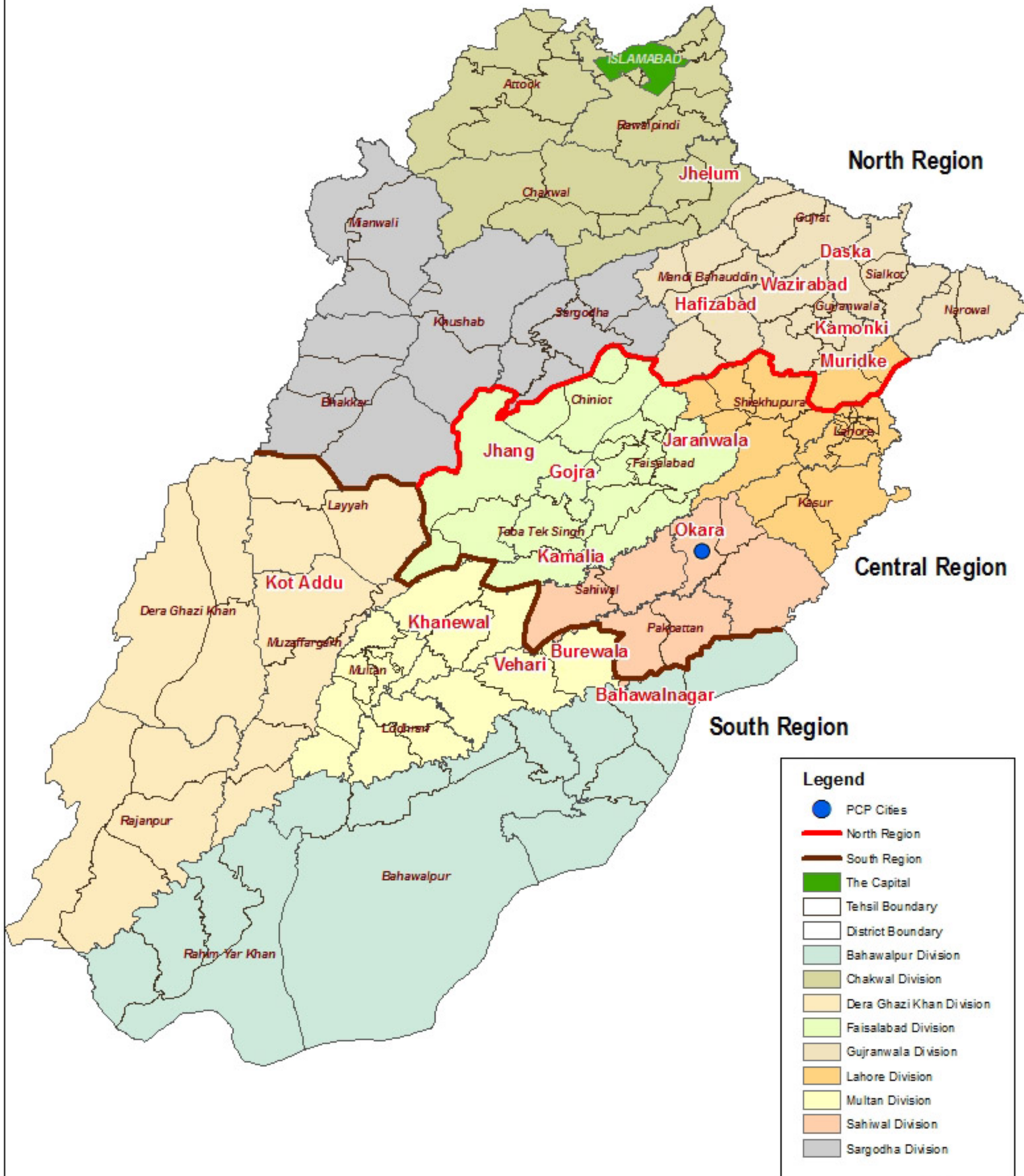
Cost Category	Cost Breakup	Cost per Annum
Annual Maintenance Cost of The Civil Works	1% of Project Cost = 0.01*(76,157,412)	761,574
Annual Man Power Cost of One Guard	Rs.25,000/month	300,000
Total cost per Annum (Million Rs.)		1,061,574

Annexure-A

Location Map

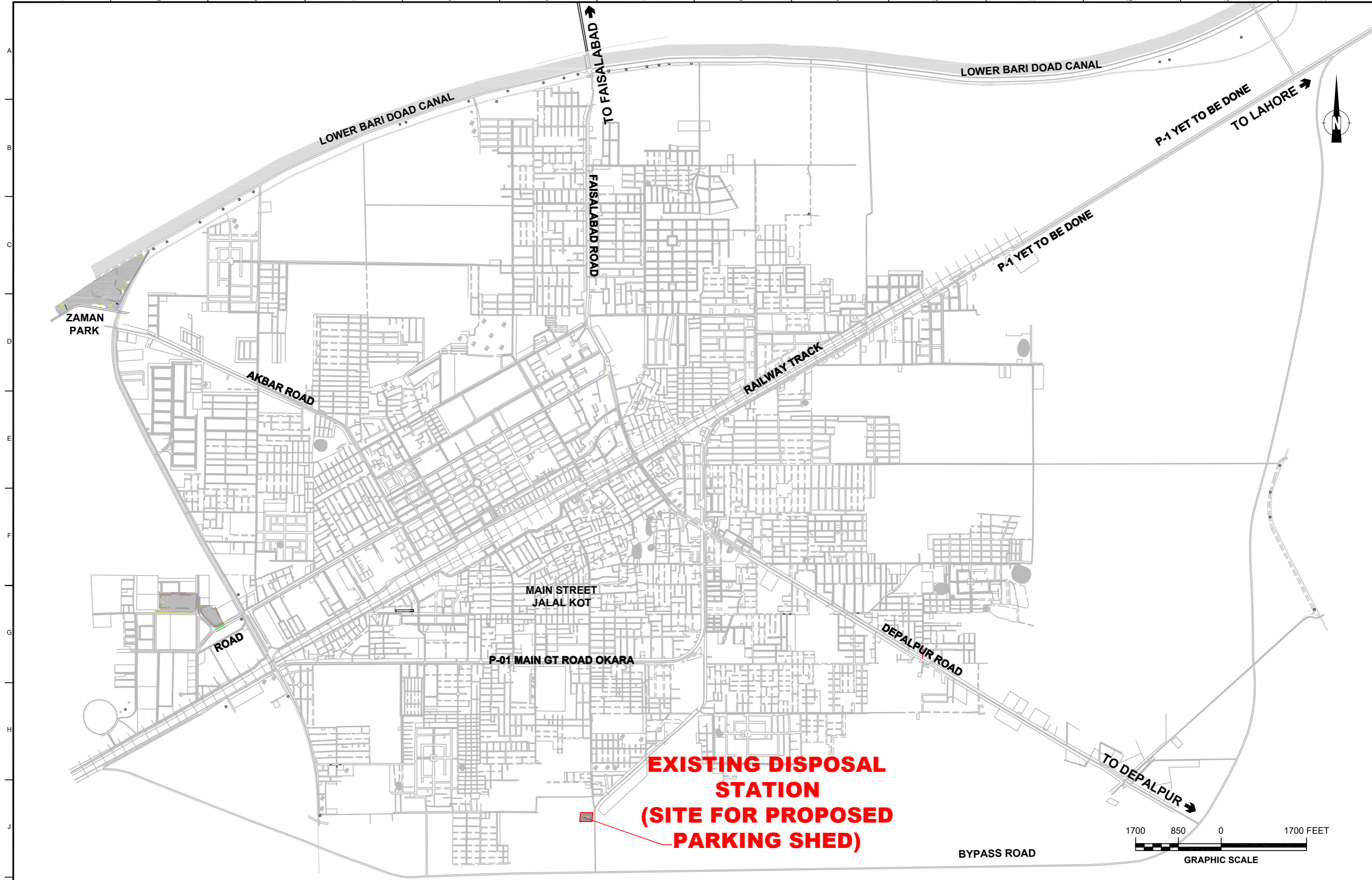
Location Map (Punjab Cities Program)

ANNEXURE - A




0 45 90 180 Kilometers





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
 (OKARA CITY)**

REV.	DATE	DESCRIPTION

DRAWN BY: Asif	DRAWING NO: PS-01
CHECKED BY: Sadat Waleed	SCALE: UNIT=FEET 1"=1700'
DATE: June,2022	SHEET: - JOB NO: 488-01

Annexure-B

Rough 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 SWM Parking Area

MC Okara

Detailed Cost Estimate

August, 2022



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

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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 (OKARA)		
SUMMARY		
Sr. No.	Description	Amount (Rs)
1	OFFICE BUILDING	
i	Civil Work	1,030,779
ii	Plumbing Work	92,474
iii	Electrical Work	135,923
2	SITTING ROOM	
i	Civil Work	922,065
ii	Plumbing Work	81,758
iii	Electrical Work	114,461
3	GUARD ROOM	
i	Civil Work	495,926
ii	Plumbing Work	6,518
iii	Electrical Work	82,940
4	STORE ROOM	
i	Civil Work	2,074,860
ii	Plumbing Work	6,518
iii	Electrical Work	167,953
5	WORK SHOP	
i	Civil Work	2,460,636
ii	Plumbing Work	83,361
iii	Electrical Work	424,106
6	PARKING SHED (SIZE 150' x 32')	
i	Civil Work	12,978,922
iii	Electrical Work	483,292
7	PARKING SHED (SIZE 120' x 32')	
i	Civil Work	10,467,264
iii	Electrical Work	378,115
8	PARKING SHED (SIZE 72' x 32') (2 Nos.)	
i	Civil Work	12,560,493
iii	Electrical Work	578,282
9	WASHING PIT	518,186

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB		
DETAILED COST ESTIMATE		
SWM PARKINGAREA (OKARA)		
SUMMARY		
Sr. No.	Description	Amount (Rs)
9	GENERATOR PAD	164,401
10	PUMP PAD	15,093
11	SEPTIC TANK	296,030
12	EXTERNAL WORK (BOUNDARY WALL + TUFF PVER + LAWN)	15,382,645
13	EXTERNAL PLUMBING WORK	1,019,777
14	EXTERNAL ELECTRICAL WORK	8,416,765
15	TUBEWELL	4,383,849
16	ENVIRONMENTAL HEALTH & SAFETY COST	112,425
17	DISMANTLING WORK	221,596
	Total Rs.	76,157,412
	Contingencies @ 2%	1,523,148
	PRA Charges @ 5%	3,807,871
	Total Amount. Rs.	81,488,431

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

DETAILED COST ESTIMATE

OFFICE BUILDING

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.48	10,677.75	5,125
		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	808.25	9.25	7,476
		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	0.64	28,986.90	18,552
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:-				
		Cement, sand mortar:- Ratio 1:5	100 Cft	3.73	30,136.30	112,408
		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	0.58	8,642.10	5,012
		Vertical D.P.C				
6	6/38	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	0.78	6,462.40	5,041
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	6.15	32,320.10	198,769

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
OFFICE BUILDING						
CIVIL WORK						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		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	169.00	556.50	94,049
		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	5.43	31,781.75	172,575
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	6.24	2,943.30	18,366
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.	100 Cft	0.75	9,089.50	6,817

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

DETAILED COST ESTIMATE

OFFICE BUILDING

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
12	6/5/f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(f) Ratio 1: 2: 4	100 Cft	0.38	38,178.90	14,508
		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	192.00	211.60	40,627
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	18.48	292.75	5,410
		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	35.00	240.00	8,400
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	168.00	292.75	49,182

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
OFFICE BUILDING						
CIVIL WORK						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	2.27	3,708.60	8,419
		Cement Plaster				
18	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	7.46	4,379.60	32,672
		Pointing				
19	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	7.72	3,518.35	27,162
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	7.72	652.50	5,037
		Distempering				
21	11/23	Distempering:- iii) three coats	100 Sft	9.73	1,295.00	12,600
		Wooden Door				
22	12/50-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	42.00	2,025.05	85,052

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
OFFICE BUILDING						
CIVIL WORK						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Lock				
23	12/22	Providing and fixing, approved quality mortice lock.	Each	2.00	771.50	1,543
		Paint				
24	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	1,292.00	1,085
		ii) Second coat	100 Sft	0.84	711.40	598
		Steel Window				
25	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	52.00	1,081.90	56,259
		Roof Insulation				
26	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	2.92	11,356.45	33,161
27	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	7.85	2,292
		Khurras				
28	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	855.00	855
		Bottom Khuras				
29	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	1.00	1,727.45	1,727
		Total Rs.				1,030,779

PUNJAB CITIES PROGRAM (PCP)							
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS							
SUPERVISION IN 16 CITIES OF PUNJAB							
OFFICE BUILDING							
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	1	59.00	2.50	2.50	368.75	Cft
	Toilet wall	1	18.50	2.50	2.50	115.63	Cft
					Total	484.38	Cft
					Total	0.48	%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.						
	Office wall	1	59.00	7.50		442.50	Sft
	Toilet wall	1	18.50	7.50		138.75	Sft
	Floor	1	16.00	12.00		192.00	Sft
		1	7.00	5.00		35.00	Sft
					Total	808.25	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	1	59.00	2.50	0.33	48.68	Cft
	Toilet wall	1	18.50	2.50	0.33	15.26	Cft
					Total	63.94	Cft
					Total	0.64	%Cft

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB OFFICE BUILDING 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						
	Step - 1	1	59.00	1.875	0.25	27.66	Cft
	Step - 2	1	59.00	1.500	0.25	22.13	Cft
	Step - 3	1	59.00	1.125	0.25	16.59	Cft
	Step - 4	1	59.00	0.750	4.92	217.71	Cft
	Toilet wall						
	Step - 1	1	18.50	1.875	0.25	8.67	Cft
	Step - 2	1	18.50	1.500	0.25	6.94	Cft
	Step - 3	1	18.50	1.125	0.25	5.20	Cft
	Step - 4	1	18.50	0.750	4.92	68.27	Cft
					Total	373.16	Cft
					Total	3.73	%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	1	59.00	0.75		44.25	Sft
	Toilet wall	1	18.50	0.75		13.88	Sft
					Total	58.13	Sft
					Total	0.58	%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	1	59.00		1.00	59.00	Sft
	Toilet wall	1	18.50		1.00	18.50	Sft
					Total	77.50	Sft
					Total	0.78	%Sft

PUNJAB CITIES PROGRAM (PCP)							
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS							
SUPERVISION IN 16 CITIES OF PUNJAB							
OFFICE BUILDING							
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	1	59.00	0.75	10.50	464.63	Cft
	Toilet wall	1	18.50	0.75	10.50	145.69	Cft
	Parapet Wall	1	73.50	0.38	2.50	68.91	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
	D-2	-1	2.50	0.75	7.00	(13.13)	Cft
	W-1	-2	6.00	0.75	4.00	(36.00)	Cft
	V-1	-1	2.00	0.70	2.00	(2.80)	Cft
						Total	614.92 Cft
						Total	6.15 %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	17.50	13.50	0.50	118.13	Cft
	Toilet Slab	1	6.50	8.50	0.50	27.63	Cft
	Sun shade	1	5.50	1.50	0.25	2.06	Cft
	Sun shade	2	8.00	1.50	0.25	6.00	Cft
	Sun shade	1	3.00	1.50	0.25	1.13	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.75	0.75	2.53	Cft
	D-2	1	3.50	0.75	0.75	1.97	Cft
	W-1	2	7.00	0.75	0.75	7.88	Cft
	V-1	1	3.00	0.75	0.75	1.69	Cft
						Total	169.00 Cft

PUNJAB CITIES PROGRAM (PCP)							
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS							
SUPERVISION IN 16 CITIES OF PUNJAB							
OFFICE BUILDING							
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)					169.00	Cft
	Top Slab & lintel @ 6.75 lbs / Cft		6.75		=	1,140.75	lbs/cft
				Total	=	1,140.75	lbs/cft
				Total	=	517.58	Kg.
				Add 5% Wastage.	=	25.88	Kg.
				Total	=	543	Kg
						Total	5.43 %kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	12.00	16.00	2.75	528.00	Cft
	toilet	1	7.00	5.00	2.75	96.25	Cft
					Total	624.25	Cft
					Total	6.24	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	12.00	16.00	0.33	63.36	Cft
	toilet	1	7.00	5.00	0.33	11.55	Cft
					Total	74.91	Cft
					Total	0.75	%Cft
	P.C.C						
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(f) Ratio 1: 2: 4						
	Floor	1	12.00	16.00	0.17	32.00	Cft
	toilet	1	7.00	5.00	0.17	5.83	Cft
					Total	0.38	%Cft

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

OFFICE BUILDING

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	12.00	16.00		192.00	Sft
						Total	192.00 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	56.00		0.33	18.48	Sft
						Total	18.48 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	7.00	5.00		35.00	Sft
						Total	35.00 Sft

PUNJAB CITIES PROGRAM (PCP)							
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS							
SUPERVISION IN 16 CITIES OF PUNJAB							
OFFICE BUILDING							
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"	2	7.00		7.00	98.00	Sft
		2	5.00		7.00	70.00	Sft
					Total	168.00	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	12.00	16.00		192.00	Sft
		1	7.00	5.00		35.00	Sft
					Total	2.27	%Sft
	Cement Plaster						
18	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Office Room						
		2	12.00		10.50	252.00	Sft
		2	16.00		10.50	336.00	Sft
	Toilet						
		2	7.00		10.50	147.00	Sft
		2	5.00		10.50	105.00	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	-2	6.00		4.00	(48.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	746.00	Sft
					Total	7.46	%Sft

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
OFFICE BUILDING
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Pointing						
19	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2						
	Outer Walls	1	73.50		10.50	771.75	Sft
					Total	771.75	Sft
					Total	7.72	%Sft
20	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	7.72	%Sft
	Distempering						
21	Distempering:-						
	iii) three coats						
	Office Room						
		2	12.00		10.50	252.00	Sft
		2	16.00		10.50	336.00	Sft
	Toilet						
		2	7.00		10.50	147.00	Sft
		2	5.00		10.50	105.00	Sft
	Slab	1	12.00	16.00		192.00	Sft
		1	7.00	5.00		35.00	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	-2	6.00		4.00	(48.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	973.00	Sft
					Total	9.73	%Sft

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB							
OFFICE BUILDING							
CALCULATION OF QUANTITIES							
CIVIL WORK							
Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Wooden Door						
22	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	3.50		7.00	24.50	Sft
	D-2	1	2.50		7.00	17.50	Sft
					Total	42.00	Sft
	Lock						
23	Providing and fixing, approved quality mortice lock.	2				2.00	Each
	Paint						
24	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Second coat				Total	0.84	Sft
	Steel Window						
25	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	2	6.00		4.00	48.00	Sft
	V-1	1	2.00		2.00	4.00	Sft
					Total	52.00	Sft

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SUPERVISION IN 16 CITIES OF PUNJAB

OFFICE BUILDING

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Roof Insulation						
26	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	17.50	13.50		236.25	Sft
		1	6.50	8.50		55.25	Sft
					Total	291.50	Sft
					Total	2.92	%Sft
27	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						
28	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each
	Bottom Khuras						
29	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

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
OFFICE BUILDING						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	1.00	2,218.35	2,218
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	2,649.35	2,649
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	5,169.95	5,170
4	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	1.00	2,228.75	2,229
6	19-16	Providing and fixing, chromium plated soap dish.	Each	1.00	278.75	279
8	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	1.00	638.15	638
9	19-27	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	1.00	1,015.00	1,015
10	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	3.00	955.00	2,865
11	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	627.95	628
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	1.00	1,108.85	1,109

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
OFFICE BUILDING						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
13	19-35-ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	2.00	283.15	566
		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 directedby Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(ii) (3/4") 25 mm	Rft	22.00	66.50	1,463
		(iii) (1") 32 mm	Rft	16.50	106.90	1,764
		Valve				
15	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	1.00	1,434.00	1,434
		iii) 1" dia	Each	1.00	1,674.00	1,674
		uPVC Pipe				
16	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	88.45	1,769
		(v) 4"(110 mm)	Rft	80.00	217.25	17,380
		(vi) 6"(160 mm)	Rft	20.00	420.65	8,413

PUNJAB CITIES PROGRAM (PCP)						
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SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
OFFICE BUILDING						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		HDPE Tank				
17	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	200.00	106.60	21,320
		Total Rs. (A)				74,583
		Non-Schedule Item				
18	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	17,890.62	17,891
		Total Rs. (B)				17,891
		Total Amount Rs. (A + B)				92,474

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

DETAILED COST ESTIMATE

OFFICE BUILDING

ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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.	375.00	81.70	30,638
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	94.60	4,730
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.	1,125.00	25.70	28,913
4	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.	150.00	40.75	6,113
5	C-24/10a.iv	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.	500.00	53.80	26,900
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	12.00	270.60	3,247
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	1.00	372.35	372

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SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
OFFICE BUILDING						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	12.00	87.35	1,048
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	4.00	112.00	448
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	5.00	149.80	749
11	C-24/43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete				
		i) double rod (80 watts) with two chokes and 2 starters.	Each	6.00	2,164.65	12,988
12	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	3,133.00	3,133
		Sub Total (A)				119,278
13	N.S	Supply, installation and commissioning of wall mounted mirror LED light 10 watt with tube rod and frame all necessary fixing accessories, complete in all respects	Each	1.00	1,215.00	1,215
14	N.S	Supply, installation and commissioning recessed 10W LED Down Light complete in all respects	Each	1.00	1,430.00	1,430
15	N.S	Supply, Installation, testing and commissioning of following size 56" steel body, complete with capacitor, hanging rod, canopy, blades, dimmers nuts and bolts complete in all respect.	Each	2.00	7,000.00	14,000
		Sub Total (B)				16,645
		Sub Total (A+B)				135,923

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

DETAILED COST ESTIMATE

SITTING ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.45	10,677.75	4,805
		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	716.25	9.25	6,625
		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	0.59	28,986.90	17,102
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	3.44	30,136.30	103,669
		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	0.54	8,642.10	4,667
		Vertical D.P.C				
6	6/38	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	0.72	6,462.40	4,653
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5	100 Cft	5.64	32,320.10	182,285

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
SITTING ROOM						
CIVIL WORK						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		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	142.50	556.50	79,301
		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	4.58	31,781.75	145,560
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	4.95	2,943.30	14,569
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	0.59	9,089.50	5,363

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DETAILED COST ESTIMATE

SITTING ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.30	38,178.90	11,454
		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	150.00	211.60	31,740
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	16.50	292.75	4,830
		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	30.00	240.00	7,200
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	154.00	292.75	45,084

PUNJAB CITIES PROGRAM (PCP)						
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SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
SITTING ROOM						
CIVIL WORK						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	1.80	3,708.60	6,675
		Cement Plaster				
18	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	6.62	4,379.60	28,993
		Pointing				
19	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	7.30	3,518.35	25,684
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	7.30	652.50	4,763
		Distempering				
21	11/23	Distempering:- iii) three coats	100 Sft	8.42	1,295.00	10,904
		Wooden Door				
22	12/50-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	42.00	2,025.05	85,052

PUNJAB CITIES PROGRAM (PCP)						
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SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
SITTING ROOM						
CIVIL WORK						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Lock				
23	12/22	Providing and fixing, approved quality mortice lock.	Each	2.00	771.50	1,543
		Paint				
24	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	1,292.00	1,085
		ii) Second coat	100 Sft	0.84	711.40	598
		Steel Window				
25	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	52.00	1,081.90	56,259
		Roof Insulation				
26	9/35	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	2.39	11,356.45	27,142
27	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	239.00	7.85	1,876
		Khurras				
28	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	855.00	855
		Bottom Khuras				
29	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	1.00	1,727.45	1,727
		Total Rs.				922,065

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SUPERVISION IN 16 CITIES OF PUNJAB							
SITTING 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	53.00	2.50	2.50	331.25	Cft
	Toilet wall	1	18.50	2.50	2.50	115.63	Cft
					Total	446.88	Cft
					Total	0.45	%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.						
	Room wall	1	53.00	7.50		397.50	Sft
	Toilet wall	1	18.50	7.50		138.75	Sft
	Floor	1	15.00	10.00		150.00	Sft
		1	6.00	5.00		30.00	Sft
					Total	716.25	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	53.00	2.50	0.33	43.73	Cft
	Toilet wall	1	18.50	2.50	0.33	15.26	Cft
					Total	58.99	Cft
					Total	0.59	%Cft

PUNJAB CITIES PROGRAM (PCP)							
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SUPERVISION IN 16 CITIES OF PUNJAB							
SITTING ROOM							
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	53.00	1.875	0.25	24.84	Cft
	Step - 2	1	53.00	1.500	0.25	19.88	Cft
	Step - 3	1	53.00	1.125	0.25	14.91	Cft
	Step - 4	1	53.00	0.750	4.92	195.57	Cft
	Toilet wall						
	Step - 1	1	18.50	1.875	0.25	8.67	Cft
	Step - 2	1	18.50	1.500	0.25	6.94	Cft
	Step - 3	1	18.50	1.125	0.25	5.20	Cft
	Step - 4	1	18.50	0.750	4.92	68.27	Cft
					Total	344.27	Cft
					Total	3.44	%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	1	53.00	0.75		39.75	Sft
	Toilet wall	1	18.50	0.75		13.88	Sft
					Total	53.63	Sft
					Total	0.54	%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	53.00		1.00	53.00	Sft
	Toilet wall	1	18.50		1.00	18.50	Sft
					Total	71.50	Sft
					Total	0.72	%Sft

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SUPERVISION IN 16 CITIES OF PUNJAB

SITTING ROOM

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	53.00	0.75	10.50	417.38	Cft
	Toilet wall	1	18.50	0.75	10.50	145.69	Cft
	Parapet Wall	1	69.50	0.38	2.50	65.16	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
	D-2	-1	2.50	0.75	7.00	(13.13)	Cft
	W-1	-2	6.00	0.75	4.00	(36.00)	Cft
	V-1	-1	2.00	0.70	2.00	(2.80)	Cft
						Total	563.92 Cft
						Total	5.64 %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	16.50	11.50	0.50	94.88	Cft
	Toilet Slab	1	7.50	6.50	0.50	24.38	Cft
	Sun shade	1	5.50	1.50	0.25	2.06	Cft
	Sun shade	2	8.00	1.50	0.25	6.00	Cft
	Sun shade	1	3.00	1.50	0.25	1.13	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.75	0.75	2.53	Cft
	D-2	1	3.50	0.75	0.75	1.97	Cft
	W-1	2	7.00	0.75	0.75	7.88	Cft
	V-1	1	3.00	0.75	0.75	1.69	Cft
						Total	142.50 Cft

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

**SITTING 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)					142.50	Cft
	Top Slab & lintel @ 6.75 lbs / Cft		6.75		=	961.88	lbs/cft
				Total	=	961.88	lbs/cft
				Total	=	436.42	Kg.
				Add 5% Wastage.	=	21.82	Kg.
				Total	=	458	Kg
						Total	4.58 %kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	15.00	10.00	2.75	412.50	Cft
	toilet	1	6.00	5.00	2.75	82.50	Cft
					Total	495.00	Cft
					Total	4.95	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	15.00	10.00	0.33	49.50	Cft
	toilet	1	6.00	5.00	0.33	9.90	Cft
					Total	59.40	Cft
					Total	0.59	%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	15.00	10.00	0.17	25.00	Cft
	toilet	1	6.00	5.00	0.17	5.00	Cft
					Total	0.30	%Cft

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

SITTING 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	15.00	10.00		150.00	Sft
					Total	150.00	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	50.00		0.33	16.50	Sft
					Total	16.50	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	6.00	5.00		30.00	Sft
					Total	30.00	Sft

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SITTING ROOM

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"	2	6.00		7.00	84.00	Sft
		2	5.00		7.00	70.00	Sft
					Total	154.00	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	15.00	10.00		150.00	Sft
		1	6.00	5.00		30.00	Sft
					Total	1.80	%Sft
	Cement Plaster						
18	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Sitting Room						
		2	15.00		10.50	315.00	Sft
		2	10.00		10.50	210.00	Sft
	Toilet						
		2	6.00		10.50	126.00	Sft
		2	5.00		10.50	105.00	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	-2	6.00		4.00	(48.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	662.00	Sft
					Total	6.62	%Sft

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SUPERVISION IN 16 CITIES OF PUNJAB							
SITTING ROOM							
CALCULATION OF QUANTITIES							
CIVIL WORK							
Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Pointing						
19	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2						
	Outer Walls	1	69.50		10.50	729.75	Sft
					Total	729.75	Sft
					Total	7.30	%Sft
20	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	7.30	%Sft
	Distempering						
21	Distempering:-						
	iii) three coats						
	Sitting Room						
		2	15.00		10.50	315.00	Sft
		2	10.00		10.50	210.00	Sft
	Toilet						
		2	6.00		10.50	126.00	Sft
		2	5.00		10.50	105.00	Sft
	Slab	1	15.00	10.00		150.00	Sft
		1	6.00	5.00		30.00	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	-2	6.00		4.00	(48.00)	Sft
	V-1	-1	2.00		2.00	(4.00)	Sft
					Total	842.00	Sft
					Total	8.42	%Sft

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SUPERVISION IN 16 CITIES OF PUNJAB**

SITTING ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Wooden Door						
22	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	3.50		7.00	24.50	Sft
	D-2	1	2.50		7.00	17.50	Sft
					Total	42.00	Sft
	Lock						
23	Providing and fixing, approved quality mortice lock.	2				2.00	Each
	Paint						
24	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Second coat				Total	0.84	Sft
	Steel Window						
25	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	2	6.00		4.00	48.00	Sft
	V-1	1	2.00		2.00	4.00	Sft
					Total	52.00	Sft

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SITTING ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Roof Insulation						
26	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	16.50	11.50		189.75	Sft
		1	7.50	6.50		48.75	Sft
					Total	238.50	Sft
					Total	2.39	%Sft
27	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)				Total	239.00	Sft
	Khurras						
28	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each
	Bottom Khuras						
29	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

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

DETAILED COST ESTIMATE

SITTING ROOM

PLUMBING WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	1.00	2,218.35	2,218
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	2,649.35	2,649
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	5,169.95	5,170
4	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	1.00	2,228.75	2,229
6	19-15	Providing and fixing, chromium plated soap dish.	Each	2.00	278.75	558
8	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	1.00	638.15	638
9	19-27	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	1.00	1,015.00	1,015
10	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	3.00	955.00	2,865
11	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	627.95	628
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	1.00	1,108.85	1,109
13	19-35-ii	Providing and fitting "P" trap:-				
		ii) 10 cm (4") glazed.	Each	2.00	283.15	566

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SITTING ROOM						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		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 directedby Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(ii) (3/4") 25 mm	Rft	22.00	66.50	1,463
		(iii) (1") 32 mm	Rft	33.00	106.90	3,528
		Valve				
15	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	1.00	1,434.00	1,434
		iii) 1" dia	Each	1.00	1,674.00	1,674
		uPVC Pipe				
16	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	88.45	1,769
		(v) 4"(110 mm)	Rft	60.00	217.25	13,035

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DETAILED COST ESTIMATE						
SITTING ROOM						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		HDPE Tank				
17	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	200.00	106.60	21,320
		Total Rs. (A)				63,868
		Non-Schedule Item				
18	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	17,890.62	17,891
		Total Rs. (B)				17,891
		Total Amount Rs. (A + B)				81,758

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DETAILED COST ESTIMATE

SITTING ROOM

ELECTRICAL WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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.	300.00	81.70	24,510
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.	75.00	94.60	7,095
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.	900.00	25.70	23,130
4	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.	250.00	40.75	10,188
5	C-24/10a.iv	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.	500.00	53.80	26,900
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	10.00	270.60	2,706
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	1.00	372.35	372

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SITTING ROOM						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	8.00	87.35	699
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	4.00	112.00	448
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	5.00	149.80	749
11	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	4.00	1,221.70	4,887
12	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	3,133.00	3,133
Sub Total (A)						104,816
13	N.S	Supply, installation and commissioning of wall mounted mirror LED light 10 watt with tube rod and frame all necessary fixing accessories, complete in all respects	Each	1.00	1,215.00	1,215
14	N.S	Supply, installation and commissioning recessed 10W LED Down Light complete in all respects	Each	1.00	1,430.00	1,430
15	N.S	Supply, Installation, testing and commissioning of following size 56" steel body, 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)						9,645
Sub Total (A+B)						114,461

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DETAILED COST ESTIMATE

GUARD ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.27	10,677.75	2,883
		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	422.50	9.25	3,908
		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	0.35	28,986.90	10,145
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	2.07	30,136.30	62,382
		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	0.32	8,642.10	2,765
		Vertical D.P.C				
6	6/38	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	0.43	6,462.40	2,779

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GUARD ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	3.55	32,320.10	114,736
		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	75.78	556.50	42,172
		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	2.44	31,781.75	77,547
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	2.75	2,943.30	8,094
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	0.33	9,089.50	3,000

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DETAILED COST ESTIMATE

GUARD ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.17	38,178.90	6,490
		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	100.00	211.60	21,160
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	13.20	292.75	3,864
		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	1.00	3,708.60	3,709
		Cement Plaster				
16	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	3.80	4,379.60	16,642
		Pointing				
17	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100 Sft	4.83	3,518.35	16,994
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	4.83	652.50	3,152

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CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Distempering				
19	11/23	Distempering:- iii) three coats	100 Sft	4.80	1,295.00	6,216
		Wooden Door				
20	12/49-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	24.50	2,025.05	49,614
		Lock				
21	12/21	Providing and fixing, approved quality mortice lock.	Each	1.00	771.50	772
		Paint				
22	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	0.49	1,292.00	633
		ii)Two coat	100 Sft	0.49	711.40	349
		Steel Window				
23	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	16.00	1,081.90	17,310

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GUARD ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Roof Insulation				
24	9/35	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	1.32	11,356.45	14,991
25	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	132.00	7.85	1,036
		Khurras				
26	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	855.00	855
		Bottom Khuras				
27	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	1.00	1,727.45	1,727
		Total Rs.				495,926

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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	43.00	2.50	2.50	268.75	Cft
					Total	268.75	Cft
					Total	0.27	%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.						
	Room wall	1	43.00	7.50		322.50	Sft
	Floor	1	10.00	10.00		100.00	Sft
					Total	422.50	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	43.00	2.50	0.33	35.48	Cft
					Total	35.48	Cft
					Total	0.35	%Cft

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GUARD ROOM

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	43.00	1.875	0.25	20.16	Cft
	Step - 2	1	43.00	1.500	0.25	16.13	Cft
	Step - 3	1	43.00	1.125	0.25	12.09	Cft
	Step - 4	1	43.00	0.750	4.92	158.67	Cft
					Total	207.05	Cft
					Total	2.07	%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	1	43.00	0.75		32.25	Sft
					Total	32.25	Sft
					Total	0.32	%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	43.00		1.00	43.00	Sft
					Total	43.00	Sft
					Total	0.43	%Sft

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GUARD ROOM							
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	43.00	0.75	10.50	338.63	Cft
	Parapet Wall	1	43.00	0.38	2.50	40.31	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	-1	4.00	0.75	4.00	(12.00)	Cft
						Total	354.56 Cft
						Total	3.55 %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	11.50	11.50	0.50	66.13	Cft
	Sun shade	1	5.50	1.50	0.25	2.06	Cft
	Sun shade	1	6.00	1.50	0.25	2.25	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.75	0.75	2.53	Cft
	W-1	1	5.00	0.75	0.75	2.81	Cft
						Total	75.78 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)					75.78	Cft
	Top Slab & lintel @ 6.75 lbs / Cft		6.75		=	511.52	lbs/cft
				Total	=	511.52	lbs/cft
				Total	=	232.09	Kg.
				Add 5% Wastage.	=	11.60	Kg.
				Total	=	244	Kg
				Total		2.44	%kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Floor	1	10.00	10.00	2.75	275.00	Cft
					Total	275.00	Cft
					Total	2.75	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Floor	1	10.00	10.00	0.33	33.00	Cft
					Total	33.00	Cft
					Total	0.33	%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	10.00	10.00	0.17	16.67	Cft
					Total	0.17	%Cft

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

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	10.00	10.00		100.00	Sft
						Total	100.00 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	40.00		0.33	13.20	Sft
						Total	13.20 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	10.00	10.00		100.00	Sft
						Total	1.00 %Sft
	Cement Plaster						
16	Cement plaster 1:4 upto 20' (6.00 m) height:-						
	3/4" (20 mm) thick						
	Guard Room						
		2	10.00		10.50	210.00	Sft
		2	10.00		10.50	210.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft
						Total	379.50 Sft
						Total	3.80 %Sft

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SUPERVISION IN 16 CITIES OF PUNJAB**

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	46.00		10.50	483.00	Sft
					Total	483.00	Sft
					Total	4.83	%Sft
18	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	4.83	%Sft
	Distempering						
19	Distempering:-						
	iii) three coats						
	Guard Room						
		2	10.00		10.50	210.00	Sft
		2	10.00		10.50	210.00	Sft
	Ceiling	1	10.00	10.00		100.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	W-1	-1	4.00		4.00	(16.00)	Sft
					Total	479.50	Sft
					Total	4.80	%Sft
	Wooden Door						
20	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	3.50		7.00	24.50	Sft
					Total	24.50	Sft

PUNJAB CITIES PROGRAM (PCP)							
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS							
SUPERVISION IN 16 CITIES OF PUNJAB							
GUARD ROOM							
CALCULATION OF QUANTITIES							
CIVIL WORK							
Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Lock						
21	Providing and fixing, approved quality mortice lock.	1				1.00	Each
	Paint						
22	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii)Two coat					Total	0.49
							Sft
	Steel Window						
23	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	1	4.00		4.00	16.00	Sft
						Total	16.00
							Sft
	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	11.50	11.50		132.25	Sft
						Total	132.25
							Sft
						Total	1.32
							%Sft

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

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	132.00
							Sft
	Khurras						
26	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each
	Bottom Khurras						
27	Bottom Khurras 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

PUNJAB CITIES PROGRAM (PCP)						
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SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
GUARD ROOM						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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.	200.00	81.70	16,340
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	94.60	4,730
3	C-24/6-i	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches (50mm)	Rft.	100.00	159.50	15,950
4	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.	600.00	25.70	15,420
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). (7.029)	Rft.	150.00	40.75	6,113
6	C-24/10a.iv	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.	200.00	53.80	10,760
7	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	8.00	270.60	2,165

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GUARD ROOM						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	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	1.00	372.35	372
9	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	3.00	87.35	262
10	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	3.00	112.00	336
11	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	7.00	149.80	1,049
12	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	1,221.70	2,443
		Sub Total (A)				75,940
13	N.S	Supply, Installation, testing and commissioning of following size 56" steel body, 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)				82,940

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DETAILED COST ESTIMATE

STORE ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.72	10,677.75	7,688
		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	1,628.88	9.25	15,067
		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	0.94	28,986.90	27,248
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	5.51	30,136.30	166,051
		Horizontal D.P.C				
5	6/37	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	0.86	8,642.10	7,432
		Vertical D.P.C				
6	6/38	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	1.15	6,462.40	7,432
		Brick work in Super Structure				
7	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	9.25	32,320.10	298,961

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DETAILED COST ESTIMATE

STORE ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		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	598.84	556.50	333,257
		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	19.26	31,781.75	612,117
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	20.34	2,943.30	59,867
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	2.44	9,089.50	22,178

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DETAILED COST ESTIMATE

STORE ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
12	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)				
		b) 60-mm thick	Per Sft	739.63	151.35	111,943
		Slab Plaster				
13	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	7.40	3,708.60	27,444
		Cement Plaster				
14	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	10.29	4,379.60	45,066
		Pointing				
15	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	12.55	3,518.35	44,155
16	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	12.55	652.50	8,189
		Distempering				
17	11/23	Distempering:- iii) three coats	100 Sft	17.69	1,295.00	22,909
		Wooden Door				
18	12/50-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	24.50	2,025.05	49,614

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DETAILED COST ESTIMATE

STORE ROOM

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Lock				
19	12/22	Providing and fixing, approved quality mortice lock.	Each	1.00	771.50	772
		Paint				
20	13/5/c	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-				
		i) priming coat.	100 Sft	0.49	1,292.00	633
		ii) Two coat	100 Sft	0.49	711.40	349
		Steel Window				
21	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	96.00	1,081.90	103,862
		Roof Insulation				
22	9/35	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	8.24	11,356.45	93,577
23	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	824.00	7.85	6,468
		Khurras				
24	9/15	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	855.00	855
		Bottom Khurras				
25	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	1,727.45	1,727
		Total Rs.				2,074,860

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SUPERVISION IN 16 CITIES OF PUNJAB							
STORE 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	114.50	2.50	2.50	715.63	Cft
					Total	715.63	Cft
					Total	0.72	%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.						
	Room wall	1	114.50	7.50		858.75	Sft
	Floor	1	25.25	30.50		770.13	Sft
					Total	1,628.88	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	114.50	2.50	0.33	94.46	Cft
					Total	94.46	Cft
					Total	0.94	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:-						
	Cement, sand mortar:- Ratio 1:5						
	Room wall						
	Step - 1	1	114.50	1.875	0.25	53.67	Cft
	Step - 2	1	114.50	1.500	0.25	42.94	Cft
	Step - 3	1	114.50	1.125	0.25	32.20	Cft
	Step - 4	1	114.50	0.750	4.92	422.51	Cft
					Total	551.32	Cft
					Total	5.51	%Cft

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STORE ROOM							
CALCULATION OF QUANTITIES							
CIVIL WORK							
Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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	1	114.50	0.75		85.88	Sft
					Total	85.88	Sft
					Total	0.86	%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	114.50		1.00	114.50	Sft
					Total	114.50	Sft
					Total	1.15	%Sft
	Brick work in Super Structure						
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Room wall	1	114.50	0.75	10.50	901.69	Cft
	Parapet Wall	1	114.50	0.38	2.50	107.34	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	-4	6.00	0.75	4.00	(72.00)	Cft
					Total	924.66	Cft
					Total	9.25	%Cft
	Concrete Work						

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SUPERVISION IN 16 CITIES OF PUNJAB							
STORE ROOM							
CALCULATION OF QUANTITIES							
CIVIL WORK							
Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	2,033.97	Cft
					Total	20.34	%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2" (40 mm to 50 mm) gauge.						
	Floor	1	24.25	30.50	0.33	244.08	Cft
					Total	244.08	Cft
					Total	2.44	%Cft
	Tuff Paver						
12	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)						
	b) 60-mm thick	1	24.25	30.50		739.63	Sft
					Total	739.63	Sft
	Slab Plaster						
13	Cement plaster 3/8" (10 mm) thick under soffit of R.C.C. roof slabs only, upto 20' height. (Ratio:- 1:3)						
		1	24.25	30.50		739.63	Sft
					Total	7.40	%Sft
	Cement Plaster						
14	Cement plaster 1:4 upto 20' (6.00 m) height:-						
	3/4" (20 mm) thick						
	Sitting Room						
		2	24.25		10.50	509.25	Sft
		2	30.50		10.50	640.50	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	W-1	-4	6.00		4.00	(96.00)	Sft
					Total	1,029.25	Sft
					Total	10.29	%Sft

PUNJAB CITIES PROGRAM (PCP)							
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SUPERVISION IN 16 CITIES OF PUNJAB							
STORE ROOM							
CALCULATION OF QUANTITIES							
CIVIL WORK							
Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Pointing						
15	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2						
	Outer Walls	1	119.50		10.50	1,254.75	Sft
					Total	1,254.75	Sft
					Total	12.55	%Sft
16	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	12.55	%Sft
	Distempering						
17	Distempering:-						
	iii) three coats						
	Store Room	2	24.25		10.50	509.25	Sft
		2	30.50		10.50	640.50	Sft
	Ceiling	1	24.25	30.50		739.63	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft
	W-1	-4	6.00		4.00	(96.00)	Sft
					Total	1,768.88	Sft
					Total	17.69	%Sft
	Wooden Door						
18	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	3.50		7.00	24.50	Sft
					Total	24.50	Sft
	Lock						

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STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
19	Providing and fixing, approved quality mortice lock.	1				1.00	Each
	Paint						
20	Painting new surface:- Preparing surface and painting of doors and windows any type (including edges):-						
	i) priming coat.						
	ii) Two coat					Total	0.49 Sft
	Steel Window						
21	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-						
	b) fixed with wire gauze, 22 SWG						
	v) glass pane 5 mm thick						
	W-1	4	6.00		4.00	96.00	Sft
						Total	96.00 Sft
	Roof Insulation						
22	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	25.75	32.00		824.00	Sft
						Total	824.00 Sft
						Total	8.24 %Sft
23	Supplying and laying polythene sheet over D.P.C. under floors and on roofs, etc.						
	ii) 500 gauge (.005" thick)					Total	824.00 Sft
	Khurras						
24	Khurras on roof 2'x2'x6" (600 x 600 x 150 mm)	1				1.00	Each

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STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit

**PUNJAB CITIES PROGRAM (PCP)
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STORE ROOM

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Bottom Khuras						
25	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

PUNJAB CITIES PROGRAM (PCP)						
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DETAILED COST ESTIMATE						
STORE ROOM						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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.	550.00	81.70	44,935
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.	75.00	94.60	7,095
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.	1,650.00	25.70	42,405
4	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.	250.00	40.75	10,188
5	C-24/10a.iv	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.	300.00	53.80	16,140
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	8.00	270.60	2,165
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	1.00	372.35	372

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DETAILED COST ESTIMATE						
STORE ROOM						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	87.35	1,398
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	6.00	112.00	672
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	6.00	149.80	899
11	C-24/43	Supply and erection of tube light, including rod, choke, starter with frame, flexible wire, including connection from ceiling rose, etc., complete				
		i) double rod (80 watts) with two chokes and 2 starters.	Each	12.00	2,164.65	25,976
		ii) single rod (40 watts) with one choke and one starter.	Each	2.00	1,221.70	2,443
12	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	2.00	3,133.00	6,266
		Sub Total (A)				160,953
13	N.S	Supply, Installation, testing and commissioning of following size 56" steel body, 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)				167,953

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DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	1.25	10,677.75	13,347
		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	1,919.39	9.25	17,754
		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	1.16	28,986.90	33,625
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	3.30	30,136.30	99,450
		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	0.51	8,642.10	4,407
		Vertical D.P.C				
6	6/38	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	0.69	6,462.40	4,459

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WORK SHOP

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	5.57	32,320.10	180,023
		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	192.50	350.30	67,433
		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	171.38	556.50	95,370
		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	12.13	31,781.75	385,513
		Sand Filling				
10	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	18.45	2,943.30	54,304

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WORK SHOP

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Brick ballast				
11	6/2	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.	100 Cft	0.56	9,089.50	5,090
		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	0.12	38,178.90	4,581
		Sub Base Course				
13	18/3/a/ (i) + 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	1.85	21,078.30	38,995
		Water Bound Macadam				
14	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	1.85	24,156.91	44,690
		Tuff Paver				
15	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)				
		For Tool Room b) 60-mm thick	Per Sft	100.00	151.35	15,135
		For Work shop c) 80-mm thick	Per Sft	561.00	189.85	106,506

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DETAILED COST ESTIMATE

WORK SHOP

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Ceramic Tile				
16	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	70.00	202.80	14,196
17	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 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"	Per Sft	238.00	209.70	49,909
		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	1.70	3,708.60	6,305
		Cement Plaster				
19	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	7.15	4,379.60	31,314
		Pointing				
20	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	6.51	3,518.35	22,904
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	6.51	652.50	4,248
		Distempering				
22	11/23	Distempering:- iii) three coats	100 Sft	8.85	1,295.00	11,461

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WORK SHOP

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Wooden Door				
23	12/50-i	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partal wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)	Per Sft	42.00	2,025.05	85,052
		Lock				
24	12/22	Providing and fixing, approved quality mortice lock.	Each	2.00	771.50	1,543
		Paint				
25	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	1,292.00	1,085
		ii)Two coat	100 Sft	0.84	711.40	598
		Steel Window				
26	25/41/b	Providing and fixing steel windows with openable glazed panels, using beam section for frame 1½"x1"x5/8"x1/8" (40x25x16x3 mm), Z-section for leaves ¾"x1"x¾"x1/8" (20x25x20x3 mm), T-section sashes 1"x1"x1/8" (25x25x3 mm), glass panes, wooden screed for glazing embedded over a thin layer of putty duly screwed with leaves, brass fittings, holdfast, duly painted, complete in all respects, including all cost of material and labour, etc. as per approved design and as directed by the Engineer-in-charge:-				
		b) fixed with wire gauze, 22 SWG				
		v) glass pane 5 mm thick	Per Sft	20.00	1,081.90	21,638

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CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Roof Insulation				
27	9/35	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	2.25	11,356.45	25,552
28	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	225.00	7.85	1,766
		Khurras				
29	9/15	Khuras on roof 2'x2'x6" (600 x 600 x 150 mm)	Each	1.00	855.00	855
		Bottom Khuras				
30	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	1.00	1,727.45	1,727
		Parking Shed				
31	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	561.00	1,800.00	1,009,800
		Total Rs.				2,460,636

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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.						
	Tool Room wall	1	43.00	2.50	2.50	268.75	Cft
	Toilet wall	1	25.50	2.50	2.50	159.38	Cft
	Columns	4	7.50	6.00	4.58	824.40	Cft
					Total	1,252.53	Cft
					Total	1.25	%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.						
	Tool Room wall	1	43.00	7.50		322.50	Sft
	Toilet wall	1	25.50	7.50		191.25	Sft
	Floor	1	10.00	10.00		100.00	Sft
		1	10.00	7.00		70.00	Sft
		1	25.50	22.00		561.00	Sft
	Columns	4	27.00	4.58		494.64	Sft
		4	7.50	6.00		180.00	Sft
					Total	1,919.39	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						
	Tool Room wall	1	43.00	2.50	0.33	35.48	Cft
	Toilet wall	1	25.50	2.50	0.33	21.04	Cft
	Columns	4	7.50	6.00	0.33	59.40	Cft
					Total	115.91	Cft

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
					Total	1.16	%Cft
	Brick work in Foundation						
4	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Tool Room wall						
	Step - 1	1	43.00	1.875	0.25	20.16	Cft
	Step - 2	1	43.00	1.500	0.25	16.13	Cft
	Step - 3	1	43.00	1.125	0.25	12.09	Cft
	Step - 4	1	43.00	0.750	4.92	158.67	Cft
	Toilet wall						
	Step - 1	1	25.50	1.875	0.25	11.95	Cft
	Step - 2	1	25.50	1.500	0.25	9.56	Cft
	Step - 3	1	25.50	1.125	0.25	7.17	Cft
	Step - 4	1	25.50	0.750	4.92	94.10	Cft
					Total	329.83	Cft
					Total	3.30	%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)						
	Tool Room wall	1	43.00	0.75		32.25	Sft
	Toilet wall	1	25.50	0.75		19.13	Sft
					Total	51.38	Sft
					Total	0.51	%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)						
	Tool Room wall	1	43.00		1.00	43.00	Sft
	Toilet wall	1	25.50		1.00	25.50	Sft
					Total	68.50	Sft
					Total	0.69	%Sft
	Brick work in Super Structure						

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
7	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Tool Room wall	1	43.00	0.75	10.50	338.63	Cft
	Toilet wall	1	25.50	0.75	10.50	200.81	Cft
	Parapet Wall	1	62.00	0.38	2.50	58.13	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
	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	0.70	2.00	(2.80)	Cft
						Total	557.26 Cft
						Total	5.57 %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:-						
	Columns	4	7.00	5.50	1.25	192.50	Cft
						Total	192.50 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)						
	Top Slab	1	225.00	1.00	0.50	112.50	Cft

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CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sun shade	1	3.00	1.50	0.25	1.13	Cft
	Columns	4	1.25	1.50	6.50	48.75	Cft
	Doors and window Lintels						
	D-1	1	4.50	0.75	0.75	2.53	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	171.38
							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)					363.88	Cft
	Top Slab, lintel & Columns @ 7 lbs / Cft		7.00		=	2,547.13	lbs/cft
					Total =	2,547.13	lbs/cft
					Total =	1,155.68	Kg.
					Add 5% Wastage. =	57.78	Kg.
					Total =	1,213	Kg
						Total	12.13
							%kg
	Sand Filling						
10	Supplying and filling sand under floor; or plugging in wells.						
	Tool Floor	1	10.00	10.00	2.50	250.00	Cft
	Toilet	1	10.00	7.00	2.75	192.50	Cft
	Work Shop Area	1	25.50	22.00	2.50	1,402.50	Cft
						Total	1,845.00
						Total	18.45
							%Cft
	Brick ballast						
11	Dry rammed brick or stone ballast, 1½" to 2"(40 mm to 50 mm) gauge.						
	Tool Floor	1	10.00	10.00	0.33	33.00	Cft
	Toilet	1	10.00	7.00	0.33	23.10	Cft
						Total	56.10
						Total	0.56
							%Cft
	P.C.C						

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
12	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	Ratio 1: 2: 4						
	Toilet	1	10.00	7.00	0.17	11.67	Cft
						Total	0.12 %Cft
	Sub Base Course						
13	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)						
	Work Shop Area	1	25.50	22.00	0.33	185.13	Cft
						Total	1.85 %Cft
	Water Bound Macadam						
14	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)						
	Work Shop Area	1	25.50	22.00	0.33	185.13	Cft
						Total	1.85 %Cft

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB							
WORK SHOP							
CALCULATION OF QUANTITIES							
CIVIL WORK							
Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
15	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)						
	For Tool Room b) 60-mm thick						
	Tool Floor	1	10.00	10.00		100.00	Sft
	Work Shop Area	1	25.50	22.00		561.00	Sft
	Ceramic Tile						
16	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	10.00	7.00		70.00	Sft
					Total	70.00	Sft
17	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"	2	10.00		7.00	140.00	Sft
		2	7.00		7.00	98.00	Sft
					Total	238.00	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	10.00	10.00		100.00	Sft
		1	10.00	7.00		70.00	Sft
					Total	1.70	%Sft
	Cement Plaster						

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
19	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick Tool Room wall						
		2	10.00		10.50	210.00	Sft
		2	10.00		10.50	210.00	Sft
	Toilet						
		2	10.00		10.50	210.00	Sft
		2	7.00		10.50	147.00	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	715.00	Sft
					Total	7.15	%Sft
	Pointing						
20	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2 Outer Walls						
		1	62.00		10.50	651.00	Sft
					Total	651.00	Sft
					Total	6.51	%Sft
21	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
					Total	6.51	%Sft
	Distempering						
22	Distempering:- iii) three coats Tool Room wall						
		2	10.00		10.50	210.00	Sft
		2	10.00		10.50	210.00	Sft
	Toilet						
		2	10.00		10.50	210.00	Sft
		2	7.00		10.50	147.00	Sft
	Slab	1	10.00	10.00		100.00	Sft
		1	10.00	7.00		70.00	Sft
	D/d Doors and Window						
	D-1	-1	3.50		7.00	(24.50)	Sft

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SUPERVISION IN 16 CITIES OF PUNJAB							
WORK SHOP							
CALCULATION OF QUANTITIES							
CIVIL WORK							
Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	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	885.00	Sft
					Total	8.85	%Sft
	Wooden Door						
23	Providing and fixing 1½" (40 mm) thick hollow flush doors and windows with commercial ply (3 ply) on both faces of deodar wood shutter frame 1¼" (30 mm) thick and partial wood braces at about 3" (75 mm) apart and deodar wood lipping 1½"x3/8" (40 mmx10 mm) fixed with M.S. chowkat (frame) including chromium plated fittings, etc. complete in all respects (without sliding bolt or lock):- M.S. angle iron 1½"x1½"x¼", welded (40 mmx40 mmx 6mm) with M.S. flat 2"x¼" (50 mm x 6 mm)						
	D-1	1	3.50		7.00	24.50	Sft
	D-2	1	2.50		7.00	17.50	Sft
					Total	42.00	Sft
	Lock						
24	Providing and fixing, approved quality mortice lock.	2				2.00	Each
	Paint						
25	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
	Steel Window						

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WORK SHOP

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Parking Shed						
31	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	25.50	22.00		561.00	Sft
					Total	561.00	Sft

PUNJAB CITIES PROGRAM (PCP)						
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SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
WORK SHOP						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	1.00	2,218.35	2,218
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	2,649.35	2,649
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	5,169.95	5,170
5	19-30	Providing and fixing, chromium plated mixing valve, for wash hand basin, sink or shower.	Each	1.00	2,228.75	2,229
7	19-15	Providing and fixing, chromium plated soap dish.	Each	1.00	278.75	279
8	19-20	Providing and fixing looking glass 55x40 cm (22"x16") size	Each	1.00	638.15	638
9	19-27	Providing and fixing chromium plated bib cock:-				
		i) 2 cm (¾")	Each	1.00	1,015.00	1,015
10	19-28	Providing and fixing chromium plated tee stop cock 15mm (½").	Each	3.00	955.00	2,865
11	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	627.95	628
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	1.00	1,108.85	1,109

PUNJAB CITIES PROGRAM (PCP)						
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DETAILED COST ESTIMATE						
WORK SHOP						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
13	19-35-ii	Providing and fitting "P" trap:- ii) 10 cm (4") glazed.	Each	2.00	283.15	566
		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 directedby Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(ii) (3/4") 25 mm	Rft	33.00	66.50	2,195
		(iii) (1") 32 mm	Rft	33.00	106.90	3,528
		Valve				
15	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	1.00	1,434.00	1,434
		iii) 1" dia	Each	1.00	1,674.00	1,674
		uPVC Pipe				
16	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	10.00	88.45	885
		(v) 4"(110 mm)	Rft	50.00	217.25	10,863
		(vi) 6"(160 mm)	Rft	10.00	420.65	4,207

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WORK SHOP						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		HDPE Tank				
17	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	200.00	106.60	21,320
		Total Rs. (A)				65,470
		Non-Schedule Item				
18	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	17,890.62	17,891
		Total Rs. (B)				17,891
		Total Amount Rs. (A + B)				83,361

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DETAILED COST ESTIMATE						
WORK SHOP						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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.	900.00	81.70	73,530
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.	100.00	94.60	9,460
3	C-24/6-i	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches (50mm)	Rft.	100.00	185.85	18,585
4	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.	2,700.00	25.70	69,390
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). (7.029)	Rft.	300.00	40.75	12,225
6	C-24/10a.iv	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.	300.00	53.80	16,140
7	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	8.00	270.60	2,165

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DETAILED COST ESTIMATE						
WORK SHOP						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	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	1.00	372.35	372
9	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	8.00	87.35	699
10	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	4.00	112.00	448
11	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	5.00	149.80	749
13	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	3,133.00	3,133
Sub Total (A)						206,896
14	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	6.00	35,035.00	210,210
15	N.S	Supply, Installation, testing and commissioning of following size 56" steel body, 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)						217,210
Sub Total (A+B)						424,106

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DETAILED COST ESTIMATE

PARKING SHED (SIZE 150' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	3.50	10,677.75	37,372
		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	7,323.72	9.25	67,744
		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	2.52	28,986.90	73,047
		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	840.00	457.75	384,510
		Above foundation				

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 150' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		(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:-				
		(2) Type B (nominal mix 1: 1½: 3)	P.Cft	198.00	612.30	121,235
		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	59.34	31,781.75	1,885,929
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	48.00	2,943.30	141,278
		Sub Base Course				
7	18/3/a/ (i) + 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	15.84	21,078.30	333,880

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 150' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		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	15.84	24,156.91	382,645
		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	4,800.00	189.85	911,280
		Parking Shed				
10	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	4,800.00	1,800.00	8,640,000
		Total Rs.				12,978,922

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 150' 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	12	8.50	7.50	4.58	3,503.70	Cft
					Total	3,503.70	Cft
					Total	3.50	%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	150.00	32.00		4,800.00	Sft
	Columns	12	32.00	4.58		1,758.72	Sft
		12	8.50	7.50		765.00	Sft
					Total	7,323.72	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	12	8.50	7.50	0.33	252.45	Cft
					Total	252.45	Cft
					Total	2.52	%Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 150' 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	12	8.00	7.00	1.25	840.00	Cft
					Total	840.00	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:-						
	(2) Type B (nominal mix 1: 1½: 3)						
	Columns	12	1.50	2.00	5.50	198.00	Cft
					Total	198.00	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)					1,038.00	Cft
	Columns @ 12 lbs / Cft		12.00		=	12,456	lbs/cft
				Total	=	12,456	lbs/cft
				Total	=	5,652	Kg.
				Add 5% Wastage.	=	283	Kg.
				Total	=	5,934	Kg
				Total		59.34	%kg

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 150' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Sand Filling						
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	150.00	32.00	1.00	4,800.00	Cft
					Total	4,800.00	Cft
					Total	48.00	%Cft
	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	150.00	32.00	0.33	1,584.00	Cft
					Total	15.84	%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	150.00	32.00	0.33	1,584.00	Cft
					Total	15.84	%Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 150' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
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	150.00	32.00		4,800	Sft
	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	150.00	32.00		4,800	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 150' x 32')						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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.	300.00	81.70	24,510
2	C-24/6-i	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches (50mm)	Rft.	250.00	185.85	46,463
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.	900.00	25.70	23,130
4	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.	600.00	40.75	24,450
5	C-24/10a.iv	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.	200.00	53.80	10,760
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	6.00	270.60	1,624
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	1.00	372.35	372

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB DETAILED COST ESTIMATE PARKING SHED (SIZE 150' x 32') ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	5.00	87.35	437
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	4.00	112.00	448
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	5.00	149.80	749
Sub Total (A)						132,942
11	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	10.00	35,035.00	350,350
Sub Total (B)						350,350
Sub Total (A+B)						483,292

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 120' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	2.92	10,677.75	31,179
		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	5,943.10	9.25	54,974
		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	2.10	28,986.90	60,872
		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	700.00	457.75	320,425
		Above foundation				

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 120' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		(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:-				
		(2) Type B (nominal mix 1: 1½: 3)	P.Cft	165.00	612.30	101,030
		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	49.45	31,781.75	1,571,608
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	38.40	2,943.30	113,023
		Sub Base Course				
7	18/3/a/ (i) + 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	12.67	21,078.30	267,062

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

DETAILED COST ESTIMATE

PARKING SHED (SIZE 120' x 32')

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		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	12.67	24,156.91	306,068
		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	3,840.00	189.85	729,024
		Parking Shed				
10	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	3,840.00	1,800.00	6,912,000
		Total Rs.				10,467,264

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB PARKING SHED (SIZE 120' 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	10	8.50	7.50	4.58	2,919.75	Cft
					Total	2,919.75	Cft
					Total	2.92	%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	120.00	32.00		3,840.00	Sft
	Columns	10	32.00	4.58		1,465.60	Sft
		10	8.50	7.50		637.50	Sft
					Total	5,943.10	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	10	8.50	7.50	0.33	210.38	Cft
					Total	210.38	Cft
					Total	2.10	%Cft

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB PARKING SHED (SIZE 120' 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	10	8.00	7.00	1.25	700.00	Cft
					Total	700.00	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:-						
	(2) Type B (nominal mix 1: 1½: 3)						
	Columns	10	1.50	2.00	5.50	165.00	Cft
					Total	165.00	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)					865.00	Cft
	Columns @ 12 lbs / Cft		12.00		=	10,380	lbs/cft
					Total	10,380	lbs/cft
					Total	4,710	Kg.
					Add 5% Wastage.	235	Kg.
					Total	4,945	Kg
					Total	49.45	%kg

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 120' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Sand Filling							
6	Supplying and filling sand under floor; or plugging in wells.						
	Shed	1	120.00	32.00	1.00	3,840.00	Cft
					Total	3,840.00	Cft
					Total	38.40	%Cft
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	120.00	32.00	0.33	1,267.20	Cft
					Total	12.67	%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	120.00	32.00	0.33	1,267.20	Cft
					Total	12.67	%Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 120' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
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	120.00	32.00		3,840	Sft
	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	120.00	32.00		3,840	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 120' x 32')						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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.	230.00	81.70	18,791
2	C-24/6-i	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches (50mm)	Rft.	120.00	185.85	22,302
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.	700.00	25.70	17,990
4	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.	600.00	40.75	24,450
5	C-24/10a.iv	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.	200.00	53.80	10,760
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	6.00	270.60	1,624
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	1.00	372.35	372

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB DETAILED COST ESTIMATE PARKING SHED (SIZE 120' x 32') ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	4.00	87.35	349
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	4.00	112.00	448
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	5.00	149.80	749
Sub Total (A)						97,835
11	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	8.00	35,035.00	280,280
Sub Total (B)						280,280
Sub Total (A+B)						378,115

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
PARKING SHED (SIZE 72' x 32')
CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	1.75	10,677.75	18,686
		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	3,565.86	9.25	32,984
		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	1.26	28,986.90	36,523
		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	420.00	457.75	192,255
		Above foundation				

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
PARKING SHED (SIZE 72' x 32')						
CIVIL WORK						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		(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:-				
		(2) Type B (nominal mix 1: 1½: 3)	P.Cft	99.00	612.30	60,618
		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	29.67	31,781.75	942,965
		Sand Filling				
6	7/30	Supplying and filling sand under floor; or plugging in wells.	100 Cft	23.04	2,943.30	67,814
		Sub Base Course				
7	18/3/a/ (i) + 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	7.60	21,078.30	160,195

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DETAILED COST ESTIMATE
PARKING SHED (SIZE 72' x 32')
CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		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	7.60	24,156.91	183,592
		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	2,304.00	189.85	437,414
		Parking Shed				
10	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	2,304.00	1,800.00	4,147,200
		No of One unit cost				6,280,247
		No of two unit cost				12,560,493

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 72' 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	6	8.50	7.50	4.58	1,751.85	Cft
					Total	1,751.85	Cft
					Total	1.75	%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	72.00	32.00		2,304.00	Sft
	Columns	6	32.00	4.58		879.36	Sft
		6	8.50	7.50		382.50	Sft
					Total	3,565.86	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	8.50	7.50	0.33	126.23	Cft
					Total	126.23	Cft
					Total	1.26	%Cft

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB PARKING SHED (SIZE 72' 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	6	8.00	7.00	1.25	420.00	Cft
					Total	420.00	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:-						
	(2) Type B (nominal mix 1: 1½: 3)						
	Columns	6	1.50	2.00	5.50	99.00	Cft
					Total	99.00	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)					519.00	Cft
	Columns @ 12 lbs / Cft		12.00		=	6,228	lbs/cft
					Total	6,228	lbs/cft
					Total	2,826	Kg.
					Add 5% Wastage.	141	Kg.
					Total	2,967	Kg

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 72' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit	
						Total	29.67	%kg
	Sand Filling							
6	Supplying and filling sand under floor; or plugging in wells.							
	Shed	1	72.00	32.00	1.00	2,304.00	Cft	
						Total	2,304.00	Cft
						Total	23.04	%Cft
	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	72.00	32.00	0.33	760.32	Cft	
						Total	7.60	%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	72.00	32.00	0.33	760.32	Cft	
						Total	7.60	%Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
PARKING SHED (SIZE 72' x 32')
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
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	72.00	32.00		2,304	Sft
	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	72.00	32.00		2,304	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 72' x 32')						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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.	150.00	81.70	12,255
2	C-24/6-i	Supply and erection PVC pipe for recessed wiring (main and sub-main) purpose, including bends, specials, etc. in floor, wall or trenches (50mm)	Rft.	160.00	185.85	29,736
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.	450.00	25.70	11,565
4	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.	300.00	40.75	12,225
5	C-24/10a.iv	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.	200.00	53.80	10,760
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	4.00	270.60	1,082
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	1.00	372.35	372

PUNJAB CITIES PROGRAM (PCP)						
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS						
SUPERVISION IN 16 CITIES OF PUNJAB						
DETAILED COST ESTIMATE						
PARKING SHED (SIZE 72' x 32')						
ELECTRICAL WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
8	C-24/32-ii	Supply and erection of switches 10/15 Amp. (Recessed Type)	Each	3.00	87.35	262
9	C-24/36-i	Supply and erection of 3 pin switch and Plug combined, recessed type. (5Amps)	Each	2.00	112.00	224
10	C-24/36-ii	Supply and erection of 3 pin switch and Plug combined recessed type (10/15Amps)	Each	3.00	149.80	449
Sub Total (A)						78,931
11	N.S	Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories complete in all respects	Each	6.00	35,035.00	210,210
Sub Total (B)						210,210
Sub Total (A+B)						289,141
No of One unit cost						289,141
No of two unit cost						578,282

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

DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.96	10,677.75	10,251
		Sand Filling				
2	7/30	Supplying and filling sand under floor; or plugging in wells.	100Cft	1.12	2,943.30	3,296
		Plain Cement Concrete				
3	6/5	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):				
		(c) Ratio 1: 1½: 3	100 Cft	0.57	43,876.50	25,010
		(f) Ratio 1: 2: 4	100 Cft	0.15	38,178.90	5,727
		(i) Ratio 1: 4: 8	100 Cft	1.12	28,986.90	32,465
		Brick work in Foundation				
4	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:4	100 Cft	11.04	31,090.30	343,237
		Plaster				
5	11/8/b	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick	100 Sft	3.32	3,424.50	11,369
		Mosaic flooring				
6	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	0.88	19,573.00	17,224

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

DETAILED COST ESTIMATE

WASHING PIT

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Mosaic dado or skirting				
7	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	3.32	20,965.90	69,607
		Total Amount Rs.				518,186

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
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	35.00	9.67	2.83	958.93	Cft
						Total	0.96 %Cft
2	Supplying and filling sand under floor; or plugging in wells.	1	35.00	9.67	0.33	111.69	Cft
						Total	1.12 %Cft
	Plain Cement Concrete						
3	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(c) Ratio 1: 1½: 3	2	35.00	3.25	0.25	56.88	Cft
						Total	0.57 %Cft
	(f) Ratio 1: 2: 4	1	35.00	2.50	0.17	14.58	Cft
						Total	0.15 %Cft
	(i) Ratio 1: 4: 8						
	Washing Pit	1	35.00	9.67	0.33	111.69	Cft
						Total	1.12 %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	9.00	1.875	0.50	8.44	Cft
	Step - 2	1	9.00	1.500	0.50	6.75	Cft
	Step - 3	1	9.00	1.125	5.50	55.69	Cft
	Side walls	2	19.00	3.250	6.00	741.00	Cft
		2	15.00	3.250	3.00	292.50	Cft
						Total	1,104.38 Cft
						Total	11.04 %Cft

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

WASHING PIT

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Plaster						
5	Cement plaster 1:3 upto 20' (6.00 m) height:- b) ½" (13 mm) thick						
	Wall	1	2.50		5.50	13.75	Sft
	Side Wall	2	19.00		6.00	228.00	Sft
		2	15.00		3.00	90.00	Sft
					Total	331.75	Sft
					Total	3.32	%Sft
	Mosaic flooring						
6	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	2.50		87.50	Sft
					Total	0.88	%Sft
	Mosaic dado or skirting						
7	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	2.50		5.50	13.75	Sft
		2	19.00		6.00	228.00	Sft
		2	15.00		3.00	90.00	Sft
					Total	331.75	Sft
					Total	3.32	%Sft

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

DETAILED COST ESTIMATE

GENERATOR PAD

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.08	10,677.75	854
		Plain Cement Concrete				
2	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	0.17	28,986.90	4,928
		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.):-				
		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	80.00	572.70	45,816
		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	3.05	31,781.75	96,934

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

GENERATOR PAD

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Thermopore Sheet				
5	6/35	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:				
		a) 1" (25 mm) thick thermopore sheet	Sft	34.58	18.10	626
		Heavy Steel Work				
6	25/10	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, rebitting, handling, assembling and fixing, but excluding erection in position.	100Kg	0.45	32,475.65	14,666
7	25/11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100Kg	0.45	1,277.25	577
		Total Amount Rs.				164,401

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
GENERATOR PAD
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.						
	Generator Pad	1	8.84	5.84	1.50	77.44	Cft
					Total	77.44	Cft
					Total	0.08	%oCft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Generator Pad	1	8.84	5.84	0.33	17.04	Cft
					Total	17.04	Cft
					Total	0.17	%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.):-						
	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:-						
		1	8.00	5.00	2.00	80.00	Cft
					Total	80.00	Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
GENERATOR PAD
CALCULATION OF QUANTITIES
CIVIL WORK

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)					80.00	Cft
	Pad @ 8 lbs / Cft		8.00		=	640.00	lbs/cft
				Total	=	640.00	lbs/cft
				Total	=	290.38	Kg.
				Add 5% Wastage.	=	14.52	Kg.
				Total	=	305	Kg
						Total	3.05 %kg
	Thermopore Sheet						
5	Providing and fixing thermopore (foamed polythene) sheet in horizontal and vertical expansion joints:						
	a) 1" (25 mm) thick thermopore sheet	1	26.00		1.33	34.58	Sft
	Heavy Steel Work						
6	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, rebitting, handling, assembling and fixing, but excluding erection in position.						
	Angle Iron 1-1/2" x1-1/2"x3/8"	1	26.00	0.25	0.03	0.20	Cft
	Steel Density 490lbs/cft					99.53	lbs
						45.16	Kg
						Total	0.45 %Kg
7	Erection and fitting in position iron trusses, staging of water tanks, etc.					Total	0.45 %Kg

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

DETAILED COST ESTIMATE

PUMP PAD

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.01	10,677.75	107
		Plain Cement Concrete				
2	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	0.03	28,986.90	870
		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.):-				
		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	8.00	572.70	4,582
		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	0.30	31,781.75	9,535
		Total Amount Rs.				15,093

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

PUMP PAD

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.						
	Pump Pad	1	2.50	2.50	1.00	6.25	Cft
						Total	0.01 %oCft
	Plain Cement Concrete						
2	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8						
	Pump Pad	1	2.50	2.50	0.50	3.13	Cft
						Total	3.13 Cft
						Total	0.03 %oCft
	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.):-						
	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:-						
		1	2.00	2.00	2.00	8.00	Cft
						Total	8.00 Cft

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

PUMP PAD

CALCULATION OF QUANTITIES

CIVIL WORK

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)					8.00	Cft
	Pad @ 8 lbs / Cft		8.00		=	64.00	lbs/cft
				Total	=	64.00	lbs/cft
				Total	=	29.04	Kg.
				Add 5% Wastage.	=	1.45	Kg.
				Total	=	30	Kg
					Total	0.30	%kg

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

DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	0.71	10,677.75	7,581
		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	0.34	38,178.90	12,981
		(i) Ratio 1: 4: 8	100 Cft	0.55	28,986.90	15,943
		Brick work				
3	7/7/i	Pacca brick work other than building upto 10ft. (3 m)				
		Ratio 1:3	100 Cft	4.21	33,606.10	141,482
		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	50.63	556.50	28,173

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

DETAILED COST ESTIMATE

SEPTIC TANK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	1.27	31,781.75	40,224
		Cement Pointing				
6	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-				
		a) ratio 1:2	100Sft	5.19	3,518.35	18,260
		RCC Manhole Cover				
7	21/15/A	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	11,559.50	23,119
		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	590.55	8,268
		Total Amount Rs.				296,030

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
SEPTIC TANK
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.						
	Septic tank	1	13.50	7.50	7.00	708.75	Cft
					Total	708.75	Cft
					Total	0.71	%Cft
	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	3.75	6.00	0.50	33.75	Cft
					Total	33.75	Cft
					Total	0.34	%Cft
	(i) Ratio 1: 4: 8						
	Septic tank	3	3.75	6.00	0.33	22.50	Cft
	Outer Wall	1	39.00	2.00	0.33	26.00	Cft
	Baffle wall	2	6.00	1.50	0.33	6.00	Cft
					Total	54.50	Cft
					Total	0.55	%Cft
	Brick work						
3	Pacca brick work other than building upto 10ft. (3 m)						
	Ratio 1:3						
	Outer wall	1	39.00	1.88	0.50	36.56	Cft
		1	39.00	1.50	0.50	29.25	Cft
		1	39.00	1.13	0.50	21.94	Cft
		1	39.00	0.75	9.00	263.25	Cft
	Baffle wall	2	6.00	1.13	0.50	6.75	Cft
		2	6.00	0.75	7.00	63.00	Cft
					Total	420.75	Cft
					Total	4.21	%Cft

PUNJAB CITIES PROGRAM (PCP)
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SUPERVISION IN 16 CITIES OF PUNJAB
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	13.50	7.50	0.50	50.63	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)		2.50 kg/cft			126.56	Kg
					Total	1.27	%Kg
	Cement Pointing						
6	Cement pointing struck joints, on walls, upto 20' (6.00 m) hieght:-						
	a) ratio 1:2	1	39.00		9.00	351.00	Sft
		4	6.00		7.00	168.00	Sft
					Total	519.00	Sft
					Total	5.19	%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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 SUPERVISION IN 16 CITIES OF PUNJAB**

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.

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

DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		BOUNDARY WALL				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	80.18	4,317.45	346,173
		Excavation				
2	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	5.13	10,677.75	54,777
		Anti-Termite				
3	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	6,183.00	9.25	57,193
		Plain Cement Concrete				
4	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	6.77	28,986.90	196,241
		Brick work in Foundation				
5	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	30.77	31,221.10	960,673
		Horizontal D.P.C				
6	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	6.67	8,642.10	57,643

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Vertical D.P.C				
7	6/38	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	8.51	6,462.40	54,995
		Brick work in Super Structure				
8	7/5	Pacca brick work in ground floor:-				
		i) Cement, sand mortar:- Ratio 1:5	100 Cft	49.41	31,221.10	1,542,635
		Concrete Work				
9	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	36.75	572.70	21,047
		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	52.36	556.50	29,138
		Steel Work.				
10	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	5.09	31,781.75	161,769

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SUPERVISION IN 16 CITIES OF PUNJAB

DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Cement Plaster				
11	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	64.09	4,220.85	270,514
		Pointing				
12	11/18/a	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:- a) ratio 1:2	100 Sft	64.09	3,518.35	225,491
13	11/31	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.	100 Sft	64.09	652.50	41,819
		Distempering				
14	11/23	Distempering:- iii) three coats	100 Sft	62.08	1,295.00	80,394
		Main Gate				
15	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	120.00	1,928.30	231,396
		Painting new surface:-				
16	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	2.40	824.15	1,978
			100 Sft	2.40	490.55	1,177
		Razor Wire				
17	26/46	Providing and fixing anti climb high security galvanized razor cut wire having double sharp four U-shaped pointed 0.5 mm thick (22mmx15 mm barbs) spaced @ 33 mm c/c clad over 2.5 mm dia high tensile Core wire making coil fencing of specified diameter @ 4" c/c fixed on 2'-3" high M/S angle iron post 1½"x1½"x3/16" embeded in base of PCC (1:2:4) (4"x4"x9") @ 4' apart i/c the cost of 2 No. bars 3/8" dia welded horizontally with angle iron posts , binding wire, painting of posts, etc. complete in all respects as approved and directed by the Engineer incharge.				
		(ii) 18 " diameter	Rft	776.00	500.00	388,000
Total Rs. "A"						4,723,052

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DETAILED COST ESTIMATE

EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Tuff Paver				
		Dismantling				
18	4/29	Dismantling brick or flagged flooring without concrete foundation.	100Sft	120.00	863.50	103,620
		Borrow Earth				
19	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	54.34	17,222.30	935,860
		Concrete Work				
20	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	1,458.34	572.70	835,189
		Steel Work.				
21	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	43.75	31,781.75	1,390,454

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EXTERNAL WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Sub Base Course				
22	18/3/a/ (i) + 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	71.58	21,078.30	1,508,785
		Water Bound Macadam				
23	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	71.58	24,156.91	1,729,151
		Tuff Paver				
24	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	21,690.00	189.85	4,117,847
25	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).	100 Sft	22.85	1,693.10	38,687
		Total Rs. "B"				10,659,592
		Total Rs. "A+B"				15,382,645

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit	
	BOUNDARY WALL							
1	Dismantling brick work in lime or cement mortar.					Total	80.18	%Cft
	Excavation							
2	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	802.00	2.50	2.50	5,012.50	Cft	
	Columns	3	4.00	4.00	2.50	120.00	Cft	
						Total	5,132.50	Cft
						Total	5.13	%oCft
	Anti-Termite							
3	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	802.00	7.50		6,015.00	Sft	
	Columns	3	16.00	2.50		120.00	Sft	
		3	4.00	4.00		48.00	Sft	
						Total	6,183.00	Sft
	Plain Cement Concrete							
4	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	802.00	2.50	0.33	661.65	Cft	
	Columns	3	4.00	4.00	0.33	15.84	Cft	
						Total	677.49	Cft
						Total	6.77	%Cft

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EXTERNAL WORK
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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Brick work in Foundation						
5	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Boundary wall						
	Step - 1	1	802.00	1.875	0.25	375.94	Cft
	Step - 2	1	802.00	1.500	0.25	300.75	Cft
	Step - 3	1	802.00	1.125	0.25	225.56	Cft
	Step - 4	1	726.63	0.750	3.42	1,863.79	Cft
	Columns						
	Step - 1	67	1.13	1.13	3.42	290.01	Cft
	Gate Columns	3	6.50	0.38	2.84	20.77	Cft
						Total	3,076.82 Cft
						Total	30.77 %Cft
	Horizontal D.P.C						
6	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	776.00	0.75		582.00	Sft
	Columns	67	1.13	1.13		84.80	Sft
						Total	666.80 Sft
						Total	6.67 %Sft
	Vertical D.P.C						
7	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	776.00		1.00	776.00	Sft
	Columns	67	1.13		1.00	75.38	Sft
						Total	851.38 Sft
						Total	8.51 %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						
8	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5						
	Boundary wall	1	700.63	0.75	8.00	4,203.75	Cft
	Columns	67	1.13	1.13	8.00	678.38	Cft
	Gate Columns	3	6.50	0.38	8.00	58.50	Cft
					Total	4,940.63	Cft
					Total	49.41	%Cft
	Concrete Work						
9	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	3	3.50	3.50	1.00	36.75	Cft
					Total	36.75	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	3	1.25	1.25	11.17	52.36	Cft
					Total	52.36	Cft

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CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Steel Work.						
10	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)					89.11	Cft
	Columns @ 12 lbs / Cft		12.00		=	1,069.31	lbs/cft
				Total	=	1,069.31	lbs/cft
				Total	=	485.17	Kg.
				Add 5% Wastage.	=	24.26	Kg.
				Total	=	509	Kg
						Total	5.09 %kg
	Cement Plaster						
11	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick						
	Boundary wall	1	700.63		8.00	5,605.00	Sft
	Columns	67	1.50		8.00	804.00	Sft
					Total	6,409.00	Sft
						Total	64.09 %Sft
	Pointing						
12	Cement pointing struck joints, on walls, upto 20' (6.00 m) height:-						
	a) ratio 1:2						
	Outer Walls	1	700.63		8.00	5,605.00	Sft
	Columns	67	1.50		8.00	804.00	Sft
					Total	6,409.00	Sft
						Total	64.09 %Sft
13	Extra cost of labour and material for red oxide pigment in cement pointing to match with the colour of bricks.						
						Total	64.09 %Sft
	Distempering						
14	Distempering:-						
	iii) three coats						
	Boundary wall	1	776.00		8.00	6,208.00	Sft
					Total	6,208.00	Sft
						Total	62.08 %Sft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Main Gate						
15	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	20.00		6.00	120.00	Sft
	Painting new surface:-						
16	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.					2.40	%Sft
	ii) each subsequent coat of paint.					2.40	%Sft
	Razor Wire						
17	Providing and fixing anti climb high security galvanized razor cut wire having double sharp four U-shaped pointed 0.5 mm thick (22mmx15 mm barbs) spaced @ 33 mm c/c clad over 2.5 mm dia high tensile Core wire making coil fencing of specified diameter @ 4" c/c fixed on 2'-3" high M/S angle iron post 1½"x1½"x3/16" embed in base of PCC (1:2:4) (4"x4"x9") @ 4' apart i/c the cost of 2 No. bars 3/8" dia welded horizontally with angle iron posts , binding wire, painting of posts, etc. complete in all respects as approved and directed by the Engineer incharge.						
	(ii) 18 " diameter	1	776.00			776.00	Rft
	Tuff Paver						
	Dismantling						
18	Dismantling brick or flagged flooring without concrete foundation.	1	400	30.00		12,000.00	Sft
						Total	120.00
							%Sft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Borrow Earth						
19	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	21,690	1.00	1.00	21,690	Cft
	Existing Wet Well Fill	1	1,018	1.00	15.00	15,270	Cft
		2	491	1.00	15.00	14,728	Cft
		1	177	1.00	15.00	2,651	Cft
					Total	54,339	Cft
					Total	54.34	%oCft
	Concrete Work						
20	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)						
	Existing Wet Well Fill	1	1,018	1.00	0.67	682.07	Cft
		2	491	1.00	0.67	657.86	Cft
		1	177	1.00	0.67	118.41	Cft
					Total	1,458.34	Cft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
Steel Work.							
21	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			4,375.01	Kg
					Total	43.75	%Kg
Sub Base Course							
22	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	21,690	1.00	0.33	7,157.70	Cft
					Total	71.58	%Cft
Water Bound Macadam							
23	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	21,690	1.00	0.33	7,157.70	Cft
					Total	71.58	%Cft

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EXTERNAL WORK

CALCULATION OF QUANTITIES

CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Tuff Paver						
24	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	21,690	1.00		21,690	Sft
25	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	2,285	1.00		2,285	Sft
						Total	22.85 %Sft

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EXTERNAL WORKS						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	4.73	10,677.75	50,452
		PPRC Pipe				
2	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 directedby Engineer Incharge.(Internal / External Diameters mentioned).				
		b) PN-20 pipe				
		(iii) (1") 32 mm	Rft	350.00	106.90	37,415
		(viii)(2-1/2") 90 mm	Rft	300.00	907.55	272,265
		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.				
		iii) 1" dia	Each	2.00	1,674.00	3,348
		vii) 2-1/2" dia	Each	2.00	2,670.00	5,340
		uPVC Pipe				
4	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)				
		(vi) 6"(160 mm)	Rft	500.00	420.65	210,325

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EXTERNAL WORKS						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
5	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	7.00	17,890.62	125,234
		HDPE Tank				
6	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	1,500	106.60	159,900
		Pump				
7	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
		Excavation				
8	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	0.13	10,677.75	1,345

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EXTERNAL WORKS						
PLUMBING WORKS						
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Plain Cement Concrete				
9	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	0.18	28,986.90	5,218
		Brick work in Foundation				
10	7/4/i	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5	100 Cft	0.44	30,136.30	13,392
		Brick work in Super Structure				
11	7/5	Pacca brick work in ground floor:- i) Cement, sand mortar:- Ratio 1:5	100 Cft	0.30	32,320.10	9,817
		Concrete Work				
12	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	67.00	556.50	37,286
		Steel Work.				
13	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	2.01	31,781.75	63,881

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DETAILED COST ESTIMATE

EXTERNAL WORKS

PLUMBING WORKS

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
		Cement Plaster				
14	11/9	Cement plaster 1:4 upto 20' (6.00 m) height:- 3/4" (20 mm) thick	100 Sft	1.08	4,220.85	4,559
		Total Rs				1,019,777

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EXTERNAL WORKS

PLUMBING WORKS

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+Drainage pipe	1	1,050.00	1.50	3.00	4,725.00	Cft
						Total	4.73 %oCft
	PPRC Pipe						
2	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 directedby Engineer Incharge.(Internal / External Diameters mentioned).						
	b) PN-20 pipe						
	(iii) (1") 32 mm	1	350.00			350.00	Rft
	(viii)(2-1/2") 90 mm	1	300.00			300.00	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.						
	iii) 1" dia	2				2.00	Nos.
	vii) 2-1/2" dia	2				2.00	Nos.
	uPVC Pipe						
4	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)						
	(vi) 6"(160 mm)	1	500.00			500.00	Rft

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SUPERVISION IN 16 CITIES OF PUNJAB							
DETAILED COST ESTIMATE							
EXTERNAL WORKS							
PLUMBING WORKS							
Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
5	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.	7				7.00	Nos.
HDPE Tank							
6	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.	1500				1,500.00	Gln
Excavation							
7	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.						
	Columns	4	3.00	3.00	3.50	126.00	Cft
						Total	0.13 %oCft
Plain Cement Concrete							
8	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate):						
	(i) Ratio 1: 4: 8	4	3.00	3.00	0.50	18.00	Cft
						Total	0.18 %Cft
Brick work in Foundation							
9	Pacca brick work in foundation and plinth in:- Cement, sand mortar:- Ratio 1:5						
	Step -1	4	2.25	2.25	0.50	10.13	Cft
	Step -2	4	1.88	1.88	0.50	7.03	Cft
	Step -3	4	1.50	1.50	0.50	4.50	Cft
	Step -4	4	1.13	1.13	4.50	22.78	Cft
						Total	44.44 Cft

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SUPERVISION IN 16 CITIES OF PUNJAB							
DETAILED COST ESTIMATE							
EXTERNAL WORKS							
PLUMBING WORKS							
Sr. No.	Description	No	Length	Width	Height	Qty.	Unit
						Total	0.44 %Cft
	Brick work in Super Structure						
10	Pacca brick work in ground floor:-						
	i) Cement, sand mortar:- Ratio 1:5	4	1.13	1.13	6.00	30.38	Cft
						Total	0.30 %Cft
	Concrete Work						
11	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)	1	10.00	10.00	0.67	67.00	Cft
	Steel Work.						
12	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			201.00	Kg
						Total	2.01 Kg
	Cement Plaster						
13	Cement plaster 1:4 upto 20' (6.00 m) height:-						
	3/4" (20 mm) thick	4	4.50		6.00	108.00	Sft
						Total	1.08 %Sft

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**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	3.34	10,677.75	35,685
		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:-				
		(2) Type B (nominal mix 1: 1½: 3)	Cft	192.00	513.65	98,621
		Steel Work				
3	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):-				
		(c) Deformed bars (Grade-60)	100Kg	4.80	31,781.75	152,552
4	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.	500.00	40.75	20,375

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Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
5	24/6	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	1,000.00	185.85	185,850
		iii) 100 mm i/d	Rft	50.00	290.75	14,538
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) 6 mm sq (7/0.044")	Rft	500.00	117.70	58,850
		iv) 16 mm sq (7/0.064")	Rft	100.00	173.95	17,395
7	24/13/c	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")	Rft	600.00	160.20	96,120
		vi) 7/1.63 mm (7/0.064")	Rft	275.00	306.30	84,233
		c) PVC insulated, PVC sheathed 4 core, 660/1100 volt non armoured cable:-				
		vi) 10 mm (7/0.052")	Rft	50.00	523.85	26,193
		viii) 25 mm (19/0.052")	Rft	225.00	1,204.55	271,024
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	6.00	106,227.85	637,367
		b) Double Arm				
		(i) 10 mtr height	Each	2.00	109,869.85	219,740

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**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
9	24/69/c	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				
		(v) 90 Watt with 10800 Lumens	Each	10.00	51,675.00	516,750
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	14,659.25	14,659
11	25/86	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 screws,necessary wire complete in all respect as approved and directed by the Engineer Incharge.				
		a) Single Pole				
		(ii) 6-40 Amp (6 KA)				
		DB-WS	Each	5.00	1,101.75	5,509
		DB-Shed&Store	Each	5.00	1,101.75	5,509
		DB-Shed 2& 3	Each	3.00	1,101.75	3,305
		DB- Shed 4	Each	3.00	1,101.75	3,305
		LCP Ext	Each	8.00	1,101.75	8,814
		LCP Internal	Each	8.00	1,101.75	8,814
		b) Double Pole				
		(ii) 6-40 Amp (6 KA)	Each			
		DB-WS	Each	1.00	3,351.75	3,352
		DB-Shed&Store	Each	1.00	3,351.75	3,352
		DB-Shed 2& 3	Each	1.00	3,351.75	3,352
		DB- Shed 4	Each	1.00	3,351.75	3,352
		LCP Ext	Each	1.00	3,351.75	3,352
		LCP Internal	Each	1.00	3,351.75	3,352

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EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
12	25/88	Supplying, Installation and commissioning of MCCB (Moulded Case Circuit Breaker) of specified rating made of LEGRAND FRANCE/ GE U.S.A / SCHNEIDER GERMANY / TERASAKI JAPAN/ABB SWITZERL(with adjustable Thermal-Magnetic Trip) in prelaidd DBs and Panels i/c the cost of screws, necessary wire complete in all respect as approved and directed by the Engineer Incharge				
		a) Tripple Pole With Adjustable Thermal-Magnetic Trip /Electronic Trip (60-100%)				
		(i) 25-100 Amp(25 KA)				
		MPB	Each	9.00	26,853.00	241,677
13	25/90	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 (18"x24"x6")				
		DB-WS	Cft	1.50	18,634.45	27,952
		DB-Shed&Store	Cft	1.50	18,634.45	27,952
		DB-Shed 2& 3	Cft	1.50	18,634.45	27,952
		DB- Shed 4	Cft	1.50	18,634.45	27,952
		LCP Ext	Cft	1.50	18,634.45	27,952
		LCP Internal	Cft	1.50	18,634.45	27,952

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EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
14	25/91	P/F floor mounted Electric Panel board of required depth and size, fabricarted with 14SWG M.S sheet (Indoor/Outdoor Type),derusting, zinc Phosphated, finish with electro static powder coating in approved colour i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar, glands,Current Transformers of specified capacity ,Door Earthing, Brass glands,bus bars,controles complete in all respects as approved and directed by the Engineer Incharge (Breakers will be Paid Separately).				
		i) LT Switchboards				
		a) 2.50 Ft deep				
		(i)300~600A (3.0x6'x2.5')	Cft	45.00	3,433.80	154,521
15	25/92	P/F floor mounted ATS (Auto Transfer Switch) panel board , fabricarted with 14S WG M.S sheet (Indoor Type) duly painted with 100 microns powder coated paint in approved colour , front access ,extendable,insulation class of 600 volts IP-44, incoming & outgoing connections from bottom with flexible copper cable suitable for 415 VAC, 3-phase 4 wire, 50 HZ TPN&E system having rated service, short circuit breaking capacity at 400VAC conforming to IEC-947-2 to accomodate given no of circuit components, instruments & accessories,assembled & wired with Electrolitic Copper bus bars at 50 deg and cables duly cleaned down to bare shining metal phosphate, manual change Over i/c the cost of Lock, Indication lights,thimbles, Copper Comb, Wiring, Netural & Earth Bar,CTs,Contactors,Relays, Door Earthing, Brass glands complete in all respects as approved and directed by the Engineer Incharge. (Breakers wil be paid additionally)				
		a) 1.00 Ft deep				
		(i) 15-40 KVA	Each	1.00	789,790.75	789,791

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**DETAILED COST ESTIMATE
EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
16	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	329,487.70	329,488
17	25/70	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	10.00	9,592.65	95,927
18	25/72	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	23.25	2,325
19	25/76	Supply and erection of 25 mm (1") dia and one metre long lightning conductor copper rod with 5 spikes on ball and base, etc. complete.	Job	10.00	4,274.00	42,740
Sub Total Scheduled Items: (A)						4,329,495

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**DETAILED COST ESTIMATE
 EXTERNAL ELECTRICAL WORKS**

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit.	Quantity	Rate (Rs.)	Amount (Rs.)
20	N.S	Supply at site brand new 20KVA Prime Power Diesel Generator with fuel tank for 8 hour operation and Sound and Weather Proof canopy installed and commission at site on RCC PAD as per Manufacturer specifications to bear the Load of 20KVA DGSet complete in all respect, Loding and unloading on site to install on PAD and Control wires from ATS panel to DG Set for smooth operation including all necessary accessories required to complete this job as per enigneer incharge instructions.	Set	1.00	3,956,850	3,956,850
21	N.S.	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.				
		i) Direct of Line (DOL) Starter for 3kW Motor	Set	1.00	56,200	56,200
		ii) Automatic Star Delta Starter ASDS for 7.5kW Motor	Set	1.00	74,220	74,220
		Total Cost (Part B)			Rs.	4,087,270
		Grand Total (Part A + Part B)			Rs.	8,416,765

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DETAILED COST ESTIMATE						
TUBE WELL						
Installation of Tubewell (0.25 Cusec)						
Sr. No	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
1	23/5	Direct Rotary/Reverse Rotary drilling of bore for tubewells, in all types of soil except shingle, gravel and rock:- a) from ground level to 200 ft. (60 m) below ground level:- i) 15" to 18" (375 to 450 mm) i/d b) exceeding 200 ft. (60 m) depth below ground level:- i) 15" to 18" (375 to 450 mm) i/d	P.Rft	200.00	770.65	154,130
			P.Rft	400.00	770.65	308,260
2	23/7	Providing strong substantially built box of deodar wood 4'x2½'x9" (1200x750x225 mm), with compartments, lock and locking arrangement, for preserving samples of strata from bore hole.	Job	1.00	37,136.30	37,136
3	23/8	Furnishing sample of water from borehole each set of 2 bottles.	Per Set of Two bottles	2.00	183.95	368
4	6/5-f	Cement concrete plain including placing, compacting, finishing and curing complete (including screening and washing of stone aggregate): (f) Ratio 1: 2: 4	100Cft	0.18	38,178.90	6,872
		Housing Pipe				
5	23/15-i	Providing and Installing MS blind pipe (Housing) socket/welded joints, including MS Reducer in tubewell borehole, including jointing/welding with strainer etc. complete in all respect. i) 10" i/d, ¼" (250 mm i/d 6 mm) thick	Per Rft	150.00	4,009.15	601,373
		Blind Pipe				
6	23/15	Providing and Installing MS blind pipe (Housing) socket/welded joints, including MS Reducer in tubewell borehole, including jointing/welding with strainer etc. complete in all respect. e) 6" i/d, 3/16" (150 mm i/d 5 mm) thick	Per Rft	370.00	2,321.05	858,789
		Strainer				
7	23/13	Providing and installing Fiberglass reinforced Polypropylene (FRP) strainer of specific wall thickness having slot size of 0.9mm to 1.00mm in Tubewell bore hole i/c the cost of male/ female coupling with Nylon Strip, studs complete in all respect as approved and directed by the Engineer Incharge. iv) 6" inch dia	Per Rft	70.00	1,851.45	129,602

		Bail Plug				
8	23/10	Providing and installing M.S. Bail plug in tubewell bore hole: e) 6" i/d, 2 ft. (150 mm i/d 600 mm) long.	Each	1.00	3,751.90	3,752
		Pea Gravel				
9	23/19	Shrouding with graded pea gravel 3/8" to 1/8" around tubewell in borehole	Per Cft	736.00	168.00	123,648
10	23/18 i	Development and Testing (D&T) at 150 % of the rated capacity of tubewell for a minimum period of 72 hours. D&T will include pumping, disposal and backwashing as approved by the Engineer.	Per hour	72.00	2,828.55	203,656
11	23/16 a	Providing and installing PVC gravel makeup pipe 3" dia class 'B' in tube well bore hole for gravel feeding including sockets, solvents and jointing etc complete in all respect.	Per Rft	40.00	319.50	12,780
		Sluice Valve				
12	23/52	Providing and fixing heavy duty Gate valve of specified diameter and material for pressure rating PN-16 mde of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge.				
		(b) Flange Ended Ductile Iron Valve				
		(ix) 4" dia	Each	1.00	34,860.00	34,860
		Air Valve				
13	23/34b	Providing and fixing, air valve 2½ (65mm) dia of B.S.S.quality and weight (complete with jointing material). Double	Each	1.00	11,458.05	11,458
		Non Return Valve				
14	23/54	Providing and fixing heavy duty Check valve of specified diameter and material for pressure rating PN-16 made of Crane (USA), Hatersly (UK) or Scon (Pakistan) i/c the cost of all accessories flanges,nut/bolt and gaskit where required complete in all respect as approved and directed by the Engineer Incharge				
		(b) Flange Ended Ductile Iron Valve				
		(ix) 4" dia	Each	1.00	30,132.00	30,132
		M.S Plate				
15	25/10	Fabrication of heavy steel work, with angle, tees, flat iron round iron and sheet iron for making trusses, girders, tanks, etc., including cutting, drilling, revitting, handling, assembling and fixing, but excluding erection in position.	100Kg	0.21	32,475.65	6,769
16	25/11	Erection and fitting in position iron trusses, staging of water tanks, etc.	100Kg	0.21	1,277.25	266
					Total. A	2,523,849
		NON SCHEDULE ITEMS				
17	NS	Grouting of top 100 ft of annular space between bore and pump housing casing with 1:1 cement sand mortar complete in all respect as per drawings and specifications (Sanitary seal)	Per Rft	100.00	500.00	50,000

18	NS	Taking samples and preserving of starta from borehole, from each strata change or as directed by Engineer including submission of starta charts along with results of strata analysis.	Each	10.00	1,000.00	10,000
		PUMP & MOTOR				
19	NS	Providing, installing, testing and lowering submersible pump of 0.25 cusecs capacity against a pumping head of 200 ft. including lowering of bowl assembly about 150 ft. column pipe/setting alongwith flow meter, pressure guage, CI. Bends tail pieces etc. upto duck foot bend, motor control unit and earthing, testing complete in all respects as per specifications, drawings and as approved by the Engineer incharge.	Each	1.00	1,800,000	1,800,000
					Total. B	1,860,000
		Total Amount Rs.			Total A+B	4,383,849

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DETAILED COST ESTIMATE

DISMANTLING WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
1		Staff Quarter (Size 40 x 17 ft)				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	10.90	4,317.45	47,066
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	3.40	18,285.70	62,171
3	4/32	a) Removing door with chowkat.	No.	1.00	438.00	438
4	4/32	b) Removing windows and sky lights with chowkat.	No.	2.00	341.50	683
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	1.70	11,174.60	18,997
		Deduction				
		Deduction of used bricks from original quantity.	1000 No.	14.72	(3,000.00)	(44,150)
					Total (A)	85,205
2		Staff Quarter (Size 16 x 16 ft)				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	6.12	4,317.45	26,423
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	1.28	18,285.70	23,406
3	4/32	a) Removing door with chowkat.	No.	1.00	438.00	438
4	4/32	b) Removing windows and sky lights with chowkat.	No.	2.00	341.50	683
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.64	11,174.60	7,152
		Deduction				
		Deduction of used bricks from original quantity.	1000 No.	8.26	(3,000.00)	(24,786)
					Total (B)	33,315

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

DETAILED COST ESTIMATE

DISMANTLING WORK

CIVIL WORK

Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Quantity	Unit Rate (Rs)	Amount (Rs)
3		Pump Room (Size 10 x 12 ft)				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	4.21	4,317.45	18,166
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	0.60	18,285.70	10,971
3	4/32	a) Removing door with chowkat.	No.	1.00	438.00	438
4	4/32	b) Removing windows and sky lights with chowkat.	No.	2.00	341.50	683
5	4/19	c) Dismantling cement concrete 1:2:4 plain.	100Cft	0.30	11,174.60	3,352
		Deduction				
		Deduction of used bricks from original quantity.	1000 No.	5.68	(3,000.00)	(17,040)
					Total (C)	16,570
4		Parking Shed (Size 40 x 17 ft)				
		Dismantling				
1	4/13	Dismantling brick work in lime or cement mortar.	100Cft	7.08	4,317.45	30,551
2	4/20	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same	100Cft	3.40	18,285.70	62,171
3	4/29	Dismantling brick or flagged flooring without concrete foundation.	100Sft	6.80	863.50	5,872
		Deduction				
		Deduction of used bricks from original quantity.	1000 No.	9.55	(3,000.00)	(28,659)
					Total (D)	86,506
					Total Rs. (A+B+C+D)	221,596

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DISMANTLING WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
	Staff Quarter (Size 40 x 17 ft)						
	Dismantling						
1	Dismantling brick work in lime or cement mortar.						
		1	114	0.75	11.00	940.50	Cft
		1	114	1.13	0.50	64.13	Cft
		1	114	1.50	0.50	85.50	Cft
					Total	1,090.13	Cft
					Total	10.90	%Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	40.00	17.00	0.50	340.00	Cft
					Total	3.40	%Cft
3	a) Removing door with chowkat.	1				1.00	No
4	b) Removing windows and sky lights with chowkat.	2				2.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	40.00	17.00	0.25	170.00	Cft
					Total	1.70	%Cft
	Staff Quarter (Size 16 x 16 ft)						
	Dismantling						
1	Dismantling brick work in lime or cement mortar.						
		1	64	0.75	11.00	528.00	Cft
		1	64	1.13	0.50	36.00	Cft
		1	64	1.50	0.50	48.00	Cft
					Total	612.00	Cft
					Total	6.12	%Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	16.00	16.00	0.50	128.00	Cft
					Total	1.28	%Cft
3	a) Removing door with chowkat.	1				1.00	No

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DISMANTLING WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
4	b) Removing windows and sky lights with chowkat.	2				2.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	16.00	16.00	0.25	64.00	Cft
						Total	0.64 %Cft
Pump Room (Size 10 x 12 ft)							
Dismantling							
1	Dismantling brick work in lime or cement mortar.	1	44	0.75	11.00	363.00	Cft
		1	44	1.13	0.50	24.75	Cft
		1	44	1.50	0.50	33.00	Cft
						Total	420.75 Cft
						Total	4.21 %Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	12.00	10.00	0.50	60.00	Cft
						Total	0.60 %Cft
3	a) Removing door with chowkat.	1				1.00	No
4	b) Removing windows and sky lights with chowkat.	2				2.00	No
5	c) Dismantling cement concrete 1:2:4 plain.	1	12.00	10.00	0.25	30.00	Cft
						Total	0.30 %Cft
Parking Shed (Size 40 x 17 ft)							
Dismantling							
1	Dismantling brick work in lime or cement mortar.	1	74	0.75	11.00	610.50	Cft
		1	74	1.13	0.50	41.63	Cft
		1	74	1.50	0.50	55.50	Cft
						Total	707.63 Cft
						Total	7.08 %Cft
2	Dismantling cement concrete reinforced, separating reinforcement from concrete, cleaning and straightening the same						
		1	40.00	17.00	0.50	340.00	Cft
						Total	3.40 %Cft

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS
SUPERVISION IN 16 CITIES OF PUNJAB
DISMANTLING WORK
CALCULATION OF QUANTITIES
CIVIL WORK

Sr. No.	Description	No.	Length	Width	Height	Qty.	Unit
3	Dismantling brick or flagged flooring without concrete foundation.	1	40.00	17.00		680	Sft
					Total	6.80	%Sft

PUNJAB CITIES PROGRAM (PCP)							
DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS							
SUPERVISION IN 16 CITIES OF PUNJAB							
EARTH WORK LEAD CHART							
Rate Analysis Road- 1							
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	9,527.90	9,527.90
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	4,248.00 47.50 338.40 320.35	4,248.00 570.00 2,876.40 -
		Total Amount I,000 (Rs.).					17,222.30
		Total Amount Per Cft					17.22

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

Rate Analysis Road- 2

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.	2nd BI- Annual-2022 (July to Dec) Okara	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs)
1		Material					
	18-3 a(i)	Pit run or bed run gravel.	100 Cft	1	1	6,621.00	6,621.00
2		Carriage					
	1/1	1st KM	100 Cft	1	1.2	299.40	359.28
		2nd KM	100 Cft	1	1.2	145.25	174.30
		3rd KM	100 Cft	1	1.2	116.85	140.22
		4th KM	100 Cft	1	1.2	85.30	102.36
		5th KM	100 Cft	1	1.2	80.20	96.24
		6th KM	100 Cft	1	1.2	79.00	94.80
		7th KM	100 Cft	1	1.2	74.25	89.10
		8th KM	100 Cft	1	1.2	73.50	88.20
		9th KM	100 Cft	1	1.2	69.55	83.46
		10th KM	100 Cft	1	1.2	65.70	78.84
		From 11 km to 200 km	100 Cft	190.00	1.2	57.25	13,053.00
		201 Kms to 250 Kms	100 Cft	25.00	1.2	3.25	97.50
		Total.					21,078.30
		Total Amount per 100 Cft					21,078.30
		Total cast for Per Cft					210.78

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

Rate Analysis Road - 3

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.	2nd BI-Annual-2022 (July to Dec) Okara	Description	Unit	Lead (Km)	Qty	Rate (Rs)	Amount (Rs.)
1	18/4(a)	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)	100 Cft		1	9,458.65	9,458.65
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	299.40	365.27
		2nd KM	100 Cft	1	1.22	145.25	177.21
		3rd KM	100 Cft	1	1.22	116.85	142.56
		4th KM	100 Cft	1	1.22	85.30	104.07
		5th KM	100 Cft	1	1.22	80.20	97.84
		6th KM	100 Cft	1	1.22	79.00	96.38
		7th KM	100 Cft	1	1.22	74.25	90.59
		8th KM	100 Cft	1	1.22	73.50	89.67
		9th KM	100 Cft	1	1.22	69.55	84.85
		10th KM	100 Cft	1	1.22	65.70	80.15
		From 11 km to 200 km	100 Cft	190.00	1.22	57.25	13,270.55
		201 Kms to 250 Kms	100 Cft	25.00	1.22	3.25	99.13
		Total.					24,156.91
		Total Amount per 100 Cft					24,156.91
		Total cast for Per Cft					241.57

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

Rate Analysis Road - 4

Manhole Construction 2 x 2 Ft										
									Unit	Each
Sr. No.	2nd BI-Annual-2022 (July to Dec) Okara	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	11,740.40	431.46
2	6-3-b	Cement concrete brick or stone ballast (1:4:8)	1	3.50	3.50	0.33	4.04	100 Cft	24,969.25	1,009.38
3	6-5-f	Base slab	1	3.50	3.50	0.25	3.06	100 Cft	38,178.90	1,169.23
4	6-6-(a)(iii)	Top ring Beam Ratio 1:2:4	1	3.500	3.50	0.33	4.04	100 Cft	457.75	1,850.45
5	6/12 (c)	Steel work		3.00 kg per cft			14.15	kg	31,781.75	4,496.72
6	7-7-i	Brick Work Ratio 1:3 Step - 1	1	11.00	0.75	2.00	16.50	100 Cft	33,606.10	5,545.01
7	11-8-c	3/4" thick Plaster Ratio 1:3 (External)	1	11.00		2.00	22.00	100 Sft	4,589.85	1,009.77
8	11-18-a	Cement pointing struck joints, on walls (1:2) (Internal)	1	8.00		2.00	16.00	100 Sft	3,518.35	562.94
9	13-9-i	Bitumen Coating on External Plaster	1	11.00		2.00	22.00	100 Sft	2,150.75	473.17
10	19-40-ii	Supply and fitting of cast iron manhole cover ii) 45 cm (18") dia	1				1.00	Each	1,342.50	1,342.50
Grand Total.									17,891	

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB										
RATE ANALYSIS										
Description										
Supply, installation and commissioning of wall mounted mirror LED light 10 watt with tube rod and frame all necessary fixing accessories, 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	Mirror Light	1.00	No	850	No.	850.00			
								Total.	850.00	
2		Carriage & Installation Charges	5	%					42.50	
								Total.	892.50	
		GST 17% on item No. 1	17	%					144.50	
		Contractor's Profit on item No. (1&2)	20	%					178.50	
		Total							1,215.50	
		<u>ITEM RATES</u>								
		Composite rate Per Each						Rs.	1,215.00	

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

RATE ANALYSIS

Description									
Supply, installation and commissioning recessed 10W LED Down Light 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	LED Down Light	1.00	No.	1,000	No.	1,000.00		
							Total.	1,000.00	
2		Carriage & Installation Charges	5	%			50.00		
							Total.	1,050.00	
		GST 17% on item No. 1	17	%			170.00		
		Contractor's Profit on item No. (1&2)	20	%			210.00		
		Total					1,430.00		
		<u>ITEM RATES</u>							
		Composite rate Per Each					Rs.	1,430.00	

PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB										
RATE ANALYSIS										
Description										
Supply, installation and commissioning high bay light 100W with 120lm/w LED hanging with all accessories 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	Highbay Light	1.00	No.	24,500	No.	24,500			
								Total.	24,500	
2		Carriage & Installation Charges	5	%					1,225	
								Total.	25,725	
		GST 17% on item No. 1	17	%					4,165	
		Contractor's Profit on item No. (1&2)	20	%					5,145	
		Total							35,035	
		<u>ITEM RATES</u>								
		Composite rate Per Each						Rs.	35,035	

**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	ii) Automatic Star Delta Starter ASDS for 7.5kW Motor	1.00	No.	51,900	No.			51,900
							Total.		51,900
2		Carriage & Installation Charges	5	%					2,595
							Total.		54,495
		GST 17% on item No. 1	17	%					8,823
		Contractor's Profit on item No. (1&2)	20	%					10,899
		Total							74,217
		<u>ITEM RATES</u>							
		Composite rate Per Each					Rs.		74,220

**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 3kW Motor	1.00	No.	39,300	No.	39,300		
							Total.	39,300	
2		Carriage & Installation Charges	5	%				1,965	
							Total.	41,265	
		GST 17% on item No. 1	17	%				6,681	
		Contractor's Profit on item No. (1&2)	20	%				8,253	
		Total						56,199	
		<u>ITEM RATES</u>							
		Composite rate Per Each					Rs.	56,200	

**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 1920 Sft							
		Material							
1	MR	Supply of PEB Shed (32' x 60')	1	Sft	2,421,927	Sft		2,421,927	
		GST						411,728	
								Total.	2,833,655
2	MR	Installation Charges							100,914
		PST						16,146	
								Total.	117,061
		Contractor's Profit on item No. (1&2)							504,568
		Total							3,455,284
		ITEM RATES							
		Composite rate 1920 Sft						Rs.	3,455,290
		Composite rate Per Sft						Rs.	1,800

**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	5	%					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 at site brand new 20KVA Prime Power Diesel Generator with fuel tank for 8 hour opration and Sound and Weather Proof canopy installed and commission at site on RCC PAD as per Manufacturer specifications to bear the Load of 20KVA DGSet complete in all respect, Loding and unloading on site to install on PAD and Control wires from ATS panel to DG Set for smooth operation including all necessary accessories required to complete this job as per enigneer incharge instructions.									
								Unit.	Each
Sr. No.	Ref	Detail	Unit Rate (British System) per Each						
			Qty	Rate Per Unit		Amount (Rs.)			
		<u>Material</u>						1 \$ = 225	
1	MR	Brand New KOHLER-SDMO France Diesel Generator Set, Model K22; 20 kVA Prime Power	1	No.	2,522,025	No.	2,522,025		
2	MR	Sound and Weather Proof Canopy	1	No.	245,000	No.	245,000		
								Total.	2,767,025
3		Transportation & Installation Charges	5	%					138,351
								Total.	2,905,376
		GST 17% on item No. (1&2)		17	%				470,394
		Contractor's Profit on item No. (1,2&3)		20	%				581,075
		Total							3,956,846
		<u>ITEM RATES</u>							
		Composite rate Per Each						Rs.	3,956,850

Date: April 26th, 2022

Client: M/s Jers Consultancy

Reference No: PEBS-22-069

Project Name: Parking Shed

Dear Sir,

Thank you for giving us the opportunity to submit our proposal for the above-mentioned project.

PEBS proposal is based on the drawings and data provided by you and is in accordance with PEBS standard design practices and terms & conditions of sale.

PEBS scope of work covers design, fabrication, supply and installation of Pre-Engineered Building in strict accordance to the standards and specifications of PEBS, unless otherwise stated in the proposal.

PEBS intends to comply with your project requirement however kindly refer Section 9 of this proposal for exclusions, deviations and assumptions which are applicable to this offer.

Prices are valid for a period of 3 days from the date of this quote.

We are keen to secure this project and start new business relations with your esteemed company.

We assure you of superior quality of our buildings and best after sale services.

Sincerely

Director

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Section No.1: Building Parameters

Sr.	Building Description						
1	Frame Type	Mono-Slope					
2	Number of interior Columns	-					
3	Width (m)	<i>9.753 O/O of Steel Line</i>					
4	Length (m)	<table border="1"> <tr> <td>18.287</td> <td rowspan="4"><i>O/O of Steel Line</i></td> </tr> <tr> <td>27.431</td> </tr> <tr> <td>36.574</td> </tr> <tr> <td>45.718</td> </tr> </table>	18.287	<i>O/O of Steel Line</i>	27.431	36.574	45.718
18.287	<i>O/O of Steel Line</i>						
27.431							
36.574							
45.718							
5	Clear Height (m)	6.096					
6	Roof Slope (Rise: Run)	As per design					
7	Bay Spacing (m)	As per design					
8	Width Module	-					
9	Base Condition	Exterior Column	Pinned				
		Interior Column	Pinned				
10	Bracing Types	At Roof	Cable Bracing				
		At Wall					
11	Type of Eave	Eave Gutters & Downspouts					
12	Type of Gable	Gable Trim					
13	Fillet Weld of Built up Sections	Single Side Welding for all Built up Sections					

Sr.	Wall Conditions	
1	Front Side Wall	Open
2	Back Side Wall	Open
3	Left End Wall	Open
4	Right End Wall	Open

Item	Roof and Wall Cladding	
Roof Cladding	Outer Sheet	0.5mm (Nominal) Pre-Painted Aluzinc Sheets (Imported)
	Insulation	Not Applicable
	Inner Sheet	Not Applicable
Wall Cladding	Outer Sheet	Not Applicable
	Insulation	Not Applicable
	Inner Sheet	Not Applicable

Exclusions

- All kind of works not offered in our scope of supplies & services.
- Any civil works including but not limited to RCC Screed, Brick Masonry, Excavation, Foundation Works, D.P.C, Flooring, and Plastering is not included in our scope.
- Doors, window, false ceiling, Glasswork, Fascia etc.
- Anchor bolts fixing, Foundations, Electrification and Plumbing etc.
- Electricity and water at site during erection

Section No.2 Building Loads

Sr.	Design Load	Value
1	Design Live Load on Roof (kN/m ²)	0.57
2	Design Live Load on Frame (kN/m ²)	0.57
3	Co-lateral Load (kN/m ²)	0.00
4	Wind Speed (km/hr)	135
5	Wind Exposure Category	B
6	Seismic Zone	2B (as per UBC 1997)
7	Rainfall Intensity (mm/hr)	150 mm/hr.
8	Solar Loading (kN/m ²)	0.00

Section No.3 Applicable Codes

Loads applied on buildings and tolerances for fabrication and erection are in accordance with:

The 2010 edition of the Low Rise Building Systems Manual By Metal Building Manufacturers Association, Inc. (MBMA) 1300 Summer Ave., Cleveland, Ohio 44115, USA

Hot rolled sections and built up sections are designed in accordance with:

The 2005 edition of the Manual of Steel Construction, By American Institute of Steel Construction, Inc. (AISC) 1 East Wacker Drive, Suite 3100, Chicago, Illinois 606012001,

Cold formed members are designed in accordance with:

The 2001 Edition of Cold Formed Steel design Manual By American Iron and Steel Institute (AISI) 1000 16th Street, NW, Washington, DC 20036, USA

Welding and its inspection / testing for Steel Structure Fabrication will be in accordance with:

The latest Edition of Structural Welding Code - Steel (AWS D1.1: 2008) By American Welding Society (AWS) 550 NW LeJeune Road, Miami, FL 33126, USA

Section No.4: Material Specifications

Sr.	Building Component		Material Specification	Strength
1	Built-up Section		ASTM A-36	Fy:25.00 kN/cm ²
2	Hot Rolled Sections	I-Sections Channels		
3	Cold Formed Secondary Members	Purlins	ASTM A653M Grade 340 Class 1 Z275	Fy:34.0 kN/cm ²
		Girts		
4	Sheeting Panels	Roof	PPGL as per ASTM A792M Grade 345B Class 1 AZM150	Fy:34.0 kN/cm ²
		Wall		
5	Diagonal "X" Bracing	Bracing Cable	ASTM A475 Extra High Strength Class A	Pu: 120kN
		Bracing Rods	ASTM A36M (or Equivalent)	Fy:25.0 kN/cm ²
		Flange Braces	ASTM A36 (or Equivalent)	Fy: 25 kN/cm ²
6	Sag Rods		ASTM A36M (or Equivalent)	Fy:25.0 kN/cm ²
7	Base and Gable Angles		ASTM A653M Grade 340 Class 1 Z275	Fy:34.0 kN/cm ²
8	Anchor Bolts		ASTM A36M (or Equivalent)	Fy:25.0 kN/cm ²
9	High Strength Bolts		ASTM A325 Type 1 (Hot-dip Galvanized)	Fy:66.0 kN/cm ²

Material Finish

- All primary members will be cleaned and then painted **with single coat of red oxide primer (DFT 30-40 microns)** and then painted with **final enamel paint. (70-80 microns)**
- All secondary members will be made of pre-galvanized coil.

Section No.5: Approval Drawings

Approval drawings under this agreement will be submitted in 2 weeks from the date of receipt of the following:

- Signed Contract
- Advance Payment

Client must sign and return the Approval drawings to PEBS within 1 week of receipt of these drawings.

Variation requested by client after submission of Approval drawings will result in change in contract price and delivery period. Such change must be mutually agreed in writing as Variation Order.

Section No.6 Delivery Schedule

PEBS will design, fabricate and dispatch the material to Job site in 08-10 weeks. However, this period will begin from the latest date of receipt and acceptance of the following:

- Signed Contact
- Advance Payment
- Receipt of Signed Approval Drawings from client
- In case of any variation, Clients written acceptance for variation in price and delivery period.

Delivery period mentioned above is dependent on client fulfilling all its obligation in a timely manner, including the return of approval drawings and adhering to agreed payment schedule.

Erection of the Building will start after the arrival of first dispatch material at job site. **Erection schedule will be established at the finalization stage.**

Section No. 7: Prices

Sr. #	Description	Price (PKR)
1	Supply of PEB Shed (32' x 60')	2,421,927/-
2	Supply of PEB Shed (32'x 90')	3,632,891/-
3	Supply of PEB Shed (32' x 120')	4,843,855/-
4	Supply of PEB Shed (32' x 150')	6,054,818/-
Total Supply Amount (Exclusive of GST)		16,953,491/-
GST @ 17%		2,882,094/-
Total Amount (Inclusive of GST)		19,835,585/-

1	Installation Services (32' x 60')	100,914/-
2	Installation Services (32'x 90')	151,371/-
3	Installation Services (32' x 120')	201,827/-
4	Installation Services (32' x 150')	252,283/-
Total Installation Services Amount (Exclusive of PST)		706,395/-
PST 16%		113,023/-
Total Amount Inclusive of PST)		819,419/-

The Supply amount is subjected to sales tax on supplies. Applicable percentage (17%) will be added to our bill and sales tax invoice will be provided of the same upon receipt by Wahdat Industrial Services (Pvt) Ltd.

The Supply amount is subjected to 4% income tax under section 153(1)(a)(Income tax Ordinance). Client shall provide withholding challans of the same.

The Installation services amount is subjected to sales tax on services. Applicable percentage (16%) will be added to our bill and sales tax invoice will be provided of the same upon receipt by Ittefaq Building Solutions (Pvt) Ltd.

The Installation services amount is subjected to 8% income tax under section 153(1)(B)(Income tax Ordinance 2001). Client shall provide withholding challans of the same.

Section No.8 Payment Terms

Supply Payment

- ***50% - Advance on Signing of Contract or Receipt of PO***
- ***25% - Before Dispatch of Building Framing***
- ***25% - Before Dispatch of Building Sheeting***

Installation Services Payment

- ***50% - Before Installation Services***
- ***50% - After completion of Installation Services***

Section No.9: Deviations, Exclusions and Assumptions

Manufacturing and supply will be initiated only after receipt of complete engineering package duly approved by the Client.

Both parties agreed that the price quoted in this quotation is based on a lump sum basis calculated according to the building descriptions as well as the required loading and codes shown above and not as a re-measurable basis. Hence, the project weight given at the quotation stage is only indicative and no claim will be entertained in case of a reduction in the building weight after the final design or the shipment. However, should there be any revision to the scope of the work after signing of the contract which may result in an increase or decrease in the contract value.

Section No. 10 Standard Terms and Conditions

- **Changes / Revisions**

Any change or revision to the above stated scope of supply may lead to a variation in the price and the delivery period. A change must not hold payment for work completed as per original contract.

- **Additional Works**

For any additional work (which is not included in our scope of work) cost will be charged separately from given price

- **Escalation clause**

Prices are quoted as per prevailing market conditions: any change in material price can affect the quoted price after expiry of quotation validity period.

- **Proposal Validity**

Prices are valid for a period of 3 days from the date of this quote.

If the job (project) is not “Finalized by the client” within 3 days from the date of entering this order, it will be subject to delivery change and price change in accordance with the prevailing delivery schedules and prices at the end of above noted period.

- **Termination of Agreement**

If clients terminate the agreement after payment of advance and submission of approval drawings by PEBS then PEBS have right to keep the advance payment to cover the expenses that occurred during that period and client will have no claim on that payment.

TAXES & DUTIES:	Quoted Price Ex-clusive of GST 17% , Incom Tax 4.5% not be deducted , exemption certificate available.
DUTIES:	As per Govt. rules and regulations, In case of any change in the terrif from Govt. of Pakistan that will be applicable accordingly.
VALIDITY:	20 days.
WARRANTY:	2 Year Warranty against any manufacturing defect.
OTHER:	Force majour clause is applicable, partial payment and partial payment is allowed.

RIZWAN HUSSAIN

Cell: +92 301 8440368



JUBILEE CORPORATION

Switchgear • Automation • Instrumentation • Controls

Technology Driven Quality Service

First Floor, Fakhri Trade Centre, Shahrah-e-Liaquat, P.O. Box: 677,
Karachi-74200 Pakistan. UAN: 021 111 000 520
Tel: +92 21 3260 2200-07 (8 lines), Fax: +92 21 3260 2211
Web: www.jubileecorporation.com
Email: jubilee.corp@cyber.net.pk

SR NO.	DESCRIPTION	RATING	MODEL	MAKE	ORIGIN	QTY	U/P	TOTAL
3KW DOL STARTER COMPONENTS BASED ON TERASAKI								
1	MCCB TP ADJ.	12.5A TO 20A, 30KA	S125NJ	TERASAKI	JAPAN	1	25,000	25,000
2	MAGNETIC CONTACTOR TP	18A @AC3	TC-18b	TERASAKI	KOREA	1	6,300	6,300
3	THERMAL OVERLOAD RELAY	6-18A	TK32a	TERASAKI	KOREA	1	8,000	8,000
							39,300	
							Errors & Omissions Expected (E&OE)	
7.5 KW STAR DELTA STARTER COMPONENTS BASED ON TERASAKI								
1	MCCB TP	20-32A, 30KA	S125NJ	TERASAKI	JAPAN	1	25,000	25,000
2	MAGNETIC CONTACTOR TP (MAIN)	18A @AC3	TC-18b	TERASAKI	KOREA	1	6,300	6,300
3	MAGNETIC CONTACTOR TP (DELTA)	18A @AC3	TC-18b	TERASAKI	KOREA	1	6,300	6,300
4	MAGNETIC CONTACTOR TP (STAR)	18A @AC3	TC-18b	TERASAKI	KOREA	1	6,300	6,300
5	THERMAL OVERLOAD RELAY	6-18A	TK32a	TERASAKI	KOREA	1	8,000	8,000
							51,900	
							Errors & Omissions Expected (E&OE)	

TERMS & CONDITIONS

Price Validity:

7 days from the date of offer submission. For further extension in validity, our confirmation in writing is necessary.

Our prices are calculated on current date of currency parity against PKR. In the event of any change in international currency rates / currency devaluation by government until final supply of order, rate difference will be on customer account.

Prices are calculated on present custom duties and government taxes. Any change in government regulation or duties and taxes at the time of import of material or during execution of order against customer's confirmed purchase order will be on customer account.

Delivery Period:

Mostly from ready stocks. Remaining about 12-14 weeks from the date of confirmed purchase order and advance payment, whichever is later.

Any changes / revision / addition in purchase order after confirmation, delivery date will reset accordingly.

Force Majeure:

Our offer is subject to usual Force Majeure clause.

General Sales Tax:

General Sales Tax will be charged on the offered prices adhering to the law of Government of Pakistan. [Note: Sales Tax @ 17% will charge to you if you are a registered person (under Sales Tax Act, 1990). If you are unregistered person (as per law) then additional 3% will charge as further tax.]

Our supplies are excluded from SWHT under SRO 897 of 2013 (Point (c)) issued by FBR on October 4, 2013 as the commercial importers who paid value addition tax on such goods at the time of import as prescribed under Chapter X of the Sales Tax Special Procedure Rules, 2007 are excluded from the provision of these rules and the Sales Tax Special (Withholding) Rules, 2007 shall not be applicable on such supplies.

Payment terms:

100% advance payment along with confirm purchase order with Sales Tax.

Income Tax:

Our supplies are exempted from WHT u/s 153(5) of the Income Tax Ordinance, 2001 as all taxes are duly paid at import stage u/s 148 against the supplies made to you by us.

Warranty:

One-year warranty against any manufacturing defects. Our liability excludes natural wear & tear, defects arising after transfer of risk owing transport risks, installation, operation, maintenance contrary to manuals and instructions, mishandling or negligence on part of the customer.

Upon receipt of customer's intimation, we shall within adequate time repair or replace, at our option, the defective part, to bring the product in working condition.

ADIL SHER
DEPUTY MANAGER PROJECTS

MANSOOR PASHA
GM PROJECTS



**JERS CONSULTANCY
(PVT.) LTD.**

**PROPOSAL FOR 20 kVA & 30 kVA
KOHLER-SDMO FRANCE
BRANDED DGSETS**

Greaves Pakistan (Pvt) Ltd
HEAD OFFICE

Modern Motor House, Beaumont Road,
Karachi-75530, Pakistan
UAN: 021-111-354-111

Branch Offices

LAHORE

3, Sunder Das Road,
Lahore.
UAN: (042) 111-354-111
Tel: (042) 36362241-2

Islamabad

1st Floor, Razia Sharif Plaza,
Blue Area, Islamabad.
UAN: (051)-111-354-111 Ext: 5117
Tel: (051) 2344543-7

INDEX		
S. No.	CONTENTS	
1.	Kohler SDMO Dealer Ship Certificate	Annex-A
2.	Executive Summary	Annex-B
3.	Price Summary	Annex-C
4.	Terms and condition	Annex-D
5.	Data Sheet Of Generators	

TO WHOM IT MAY CONCERN**Subject : SALE AUTHORIZATION FOR 2022**

We undersigned SDMO INDUSTRIES, 270 rue Kérervern, 29490 Guipavas, FRANCE,

Hereby confirm that the company GREAVES PAKISTAN (Pvt) Limited having its principal place of business at Modern Motors House, Beaumont Road, Post Box 4908, Karachi 75530, PAKISTAN, is authorized on its behalf to sell, install and maintain the KOHLER-SDMO branded products in the territory of PAKISTAN.

This agreement is valid for one year from the date of signature of this authorization and might be renewed for a one-year period with the written agreement of SDMO Industries.

Each party shall be entitled to terminate this agreement at any moment by giving a 3 (Three) month notice by registered mail.

Neither party shall be required to compensate the other solely by virtue of termination of this agreement.

The sale of our products to GREAVES PAKISTAN (Pvt) Limited is subject to our General Conditions of Sale in force on the date of the order of which GREAVES PAKISTAN (Pvt) Limited has been informed.

This authorization cancels and replaces any previous contracts, correspondence or exchanges of any nature which have the same or similar purpose.

Made in Brest on November 30, 2021.

Olivier ANDRIEU
Director Sales Distribution, PS EMEA

**SDMO Industries**

Headquarters / Siège social : 270 rue de Kerervern – 29490 Guipavas Tel. + 33 (0)2 98 41 41 41

SDMO Industries CS 40047 – 29801 Brest Cedex 9 – France

SDMO Industries – SAS au capital de 17 066 520 € - R.C.S. Brest 2548 202 985 – N° TVA Intracommunautaire : FR60548202985

www.kohler-sdmo.com



GREAVES PAKISTAN (PVT.) LIMITED

Razia Sharif Plaza, 1st Floor, 90-Jinnah Avenue, Blue Area,
Islamabad, Pakistan



Ref # GFG/LHR/0596/T1
NTN # 0698508-4

AUG 11, 2022

M/s. Jers Consultancy (Pvt.) Limited
24 Civic Center Street,
Township Commercial Area,
Lahore – Pakistan

Kind Atten. : Mr. Asad Khalid

SUBJECT : PROPOSAL FOR KOHLER-SDMO 20 kVA & 30 kVA PRIME
RATINGDIESEL GENERATORS

Dear Sir,

We are pleased to submit our competitive proposal formulated for subject mentioned rating along with salient features of our branded **Diesel GenSet – KOHLER-SDMO (Made in France)** for your review and kind consideration.

We **Greaves Pakistan** is one of the leading names in the business hub of Pakistan, We are authorized dealer of Kohler-SDMO DG Sets (100 Years Old) which has achieved an enormous success throughout the world complying with ISO 9001 quality standards. A strong and committed team from Greaves Pakistan ensures that the offered package gives you best value for your investment.

Greaves Pakistan has its head office in **Karachi**, offices located at **Islamabad, Lahore, Faisalabad, Multan, Hyderabad and Peshawar**. Our trained and qualified Engineers are available to provide complete backup support after sales services at your door step 24/7 any time. A complete range of spare parts are kept in order to meet any emergency requirement both during and after the warranty period.

We are also leading business oriented company in Cement Industry-Cherat Cement, CNG-Comp Air, Air conditioning-York, and UPS-ETN Power.

Sincerely,

Engr. Tahir Imran
Deputy Manager Sales
Power Generation Division
Contact: 0336-5366494
tahir.imran@gfg.com.pk



**KOHLER-SDMO FRANCE (FOREIGN COUPLED)
BRANDED DIESEL GENERATING SET
20 kVA Prime & 30 kVA Prime**

Technical Description

Kohler-SDMO: Powered with Kohler France Engine & Leroy Somer Alternator commercially branded as Kohler.

Complete Machine Manufactured & Shipped from France factory

Diesel Generator 1500 RPM, 400 Volts, 0.8 P.F, 50 HZ

Salient Features:

- IP23 Protection
- Class H Insulation
- Automatic Voltage Regulator
- Emergency Push Button
- User O&M Manual
- First Oil Filled
- First Coolant Filled.
- Engine Sump Oil Drain Tap
- Engine Coolant Drain
- Control Systems
- One Set Instruction Manual And Electrical Wiring Diagram
- Automatic Engine Shutdown Protections
- Batteries

PRICE SUMMARY SHEET

(Seller's Scope of Supply)
20kVA & 30 kVA PRIME RATING
DG SETS

IMPORTED ITEMS:

Sr.	Description of Stores	Qty.	Unit Price (\$)	Total Price (\$)
1.	Brand New KOHLER-SDMO France Diesel Generator Set, Model K22; 20 kVA Prime Power and 22 kVA Standby Power @ 50 Hz, 0.8 PF, 400 V, 1500 RPM (as per specifications attached) Kohler Made in France Engine <i>(Complete Machine Manufactured & Shipped from France Factory)</i>	1 No.	11,209/- \$	11,209/- \$
2.	Brand New KOHLER-SDMO France Diesel Generator Set, Model K33; 30 kVA Prime Power and 33 kVA Standby Power @ 50 Hz, 0.8 PF, 400 V, 1500 RPM (as per specifications attached) Kohler Made in France Engine <i>(Complete Machine Manufactured & Shipped from France Factory)</i>	1 No.	11,628/- \$	11,628/- \$
TOTAL AMOUNT (Excluding GST) – FOR Karachi Rate				22,837/- \$

LOCAL EQUIPMENT & WORKS:

Sr.	Description of stores.	Qty.	Unit Price	Total Price
1.	Supply of sound and weather proof canopy approximate size of provided drawing is 14 SWG base frame and 14/16 swg structure fabricated of Mild steel with less than 85 dba at 3 mtrs in open area – 20 kVA DG	1 No.	245,000	245,000
2.	Supply of sound and weather proof canopy approximate size of provided drawing is 14 SWG base frame and 14/16 swg structure fabricated of Mild steel with less than 85 dba at 3 mtrs in open area – 30 kVA DG	1 No.	265,000	265,000
3.	Charges for Transportation of Power Generating Sets from Karachi till site on ground (including loading, unloading)	2 JOB	75,000	150,000
TOTAL AMOUNT (Excluding GST/PST)				660,000
ADD 17% GST ON SUPPLIES				86,700
ADD 16% PST ON SERVICES				24,000
TOTAL AMOUNT (Including GST/PST)				770,700

GENERAL TERMS & CONDITIONS

VALIDITY	1 week only from quotation date, thereafter, subject to our re-confirmation.
AVAILABILITY	<p>Lead Time: 30 kVA: Available ex stock subject to prior sale</p> <p>20 kVA: 4-5 Months. Please confirm at the time of award of order.</p> <p>Local Items: 04 Weeks after issuance of PO & approval of technical submittal.</p>
PAYMENT TERMS	100% of advance payment with confirmed purchase order.
WARRANTY	<p>1 year warranty or 1000hrs* after Delivery/Commissioning whichever comes first.</p> <p><u>(Standard KOHLER SDMO Warranty Certificate will govern)</u></p> <p>*For manufacturing default only</p>
FORCE MAJEURE	This offer is subject to standard force majeure conditions
PRICING	<p>Our prices are based on current exchange rates (1\$ = PKR 220/-) and will be revised if there are any escalation in exchange rates. Please note that the quoted rate for 30 kVA DG Set is subject to revision for more than 1% downward fluctuation in dollar price.</p> <p>Any further duties (including regulatory duty) and taxes, imposed after the date of quotation or agreement, will be borne by the customer</p>
CUSTOMER RESPONSIBILITY	Any other work which has not been quoted specifically in the seller's scope of Supply/Work.
TAXES	The subject DG Set is imported and will be supplied to you without any value addition. Advance Income Tax has already been paid at the import stage U/S 148 of the Income Tax Ordinance 2001, this is in compliance to circular No.5 of 2002 dated 11 th April, 2002 issued by CBR. Hence tax under section 153 shall not be deducted from the payment of the cost of Generators (imported) under clause 47 (A) of Part IV of the second schedule to the income tax ordinance 2001, therefore income tax deduction is also not applicable on it.

L/C TERMS

Establishment of 100% Irrevocable Letter of Credit at sight is required either by the Supplier or Client against PRINCIPLE PROFORMA INVOICE which will be provided from KOHLER-SDMO FRANCE. All charges pertaining to LC establishment and confirmation will be borne by the customer.



Buy Online



Deluxe
Price from **5,525 Rs**

1 color available

Buy Online



Jazz
Price from **5,795 Rs**

2 colors available

Buy Online



Classic Super
Price from **5,895 Rs**

1 color available

Buy Online



Classic
Price from **5,895 Rs**

1 color available

Buy Online



Hilux
Price from **5,975 Rs**

227
 2 colors available

Out of stock



Classic Gold
Price from **5,995 Rs**

1 color available

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	OCT-22				NOV-22				DEC-22				JAN -23				FEB-23				MAR-23			
1	Entrance Gate & Boundary Wall	■	■	■	■	■	■	■	■	■	■	■	■												
2	Buildings & Allied Structures					■	■	■	■	■	■	■	■	■	■	■	■	■	■						
3	Parking Shed									■	■	■	■	■	■	■	■								
5	Workshop & Washing area											■	■	■	■	■	■	■	■						
6	Walkways & Pathways																	■	■	■	■	■	■	■	■

Annexure-E
E&S Checklist and SOPs

Name of MC	Okara			
Name of Sector	Solid Waste Management			
Name of Sub-project	Parking area for Solid Waste Machinery			
Categorization	Environmental	E-3	Social	S-3
Identified Environmental and Social Issues for further study	An existing parking shed will be rehabilitated under sub-project with minor changes. No APs reported as per limited scope of work and closed premises. No E & S study required for sub-project.			

Screening Checklist

Punjab Cities program Environmental & Social Screening Checklist

SOCIAL AND ENVIRONMENTAL 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 for 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) The purpose of this E&S Screening Checklists is to identify potential "Negative" impacts of environmental and social attributes or to enhance the existing environmental & social benefits. Use the "remarks" section to discuss any anticipated mitigation measures.

Name of ESFP:
Name of MC: *MC Okara*
Sub-Project Sector: *Solid waste management*
Sub-Project Title: *Parking area for solid waste machinery*
Sub-Project Categorization: E-1 S-1
E-2 S-2
E-3 S-3

Date of Screening: *17/02/2021*

Screening Questions	Yes	No	Remarks
A. Project Siting			
Is the Sub-Project area adjacent to or within any of the following:			
Environmentally sensitive areas?			
Is there any site of cultural importance (graveyard, shrine, mosque, archeological site) within 100 m of the proposed sub-project?		<input checked="" type="checkbox"/>	
Legally protected Area (core zone or buffer zone)		<input checked="" type="checkbox"/>	
Is there any surface water body (river, canal, stream, lake wetland) within 250 meter of the proposed sub-project?		<input checked="" type="checkbox"/>	
Estuarine		<input checked="" type="checkbox"/>	

¹ In all MCs, ESFPs are notified by Local government; MO (E&S) are focal persons for environmental sector and MO(S) are focal persons for social sector.
² It is meant as PC-1 and/or engineering estimates of sub-project.
³ According to Environmental Assessment developed by NWFP-EPA Environmental Guidelines Sanitation Schemes as adopted by EPA.
⁴ Ibid.

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Punjab Cities program Environmental & Social Screening Checklist

Screening Questions	Yes	No	Remarks
Special area for protecting biodiversity		<input checked="" type="checkbox"/>	
Buffer zone of protected area		<input checked="" type="checkbox"/>	
How many Sensitive receptors (Schools, colleges, hospitals and clinics) are within 100 meter of the proposed sub-project?		<input checked="" type="checkbox"/>	
Is there any site of groundwater well within 250 m of the proposed sub-project?		<input checked="" type="checkbox"/>	
B. Potential Environmental Impacts			
Will the Sub-Project cause...			
1. Impairment of historical/cultural areas; disfigurement of landscape or potential loss/damage to Physical Cultural Resources (PCRs)?		<input checked="" type="checkbox"/>	
2. Disturbance to habitats/biodiversity of environmentally sensitive or protected areas?		<input checked="" type="checkbox"/>	
3. Cutting of trees?		<input checked="" type="checkbox"/>	
4. Disruption to habitats/biodiversity of surrounding ecosystem/environment?		<input checked="" type="checkbox"/>	
5. Generation of wastewater during construction or operation?		<input checked="" type="checkbox"/>	
6. Pollution of surface water/ground water due to wastewater discharge from construction site or due to direct/indirect disposal of waste water?		<input checked="" type="checkbox"/>	
7. Alteration of surface water hydrology of waterways resulting in increased sediment in streams/rivers or due to increased soil erosion at construction site?		<input checked="" type="checkbox"/>	
8. Deterioration of surface water quality due to silt runoff and sanitary wastes from worker-based camps and chemicals used in construction?		<input checked="" type="checkbox"/>	
9. Over pumping of ground water, leading to salinization and ground subsidence?		<input checked="" type="checkbox"/>	
10. Serious contamination of soil due to construction works?		<input checked="" type="checkbox"/>	
11. Aggravation of solid waste problems in the area?		<input checked="" type="checkbox"/>	
12. Generation of hazardous waste?		<input checked="" type="checkbox"/>	
13. Increased air pollution due to sub-project construction and operation?		<input checked="" type="checkbox"/>	

¹ Ibid.
² Ibid.

Page 2 of 7

4

Screening Questions	Yes	No	Remarks
14. Noise and vibration due to sub-project construction or operation?		<input checked="" type="checkbox"/>	
15. Creation of temporary breeding habitats for diseases such as those transmitted by mosquitoes and rodents due to solid/liquid?		<input checked="" type="checkbox"/>	
16. Use of chemicals during construction?		<input checked="" type="checkbox"/>	
C: Potential Social Impacts			
Will the Sub-Project cause...			
1. Displacement or involuntary resettlement of people? (physical displacement and/or economic displacement) (If "Yes", please also fill Involuntary Resettlement Screening Checklist)		<input checked="" type="checkbox"/>	
2. Are there 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, ethnic minorities, people with disabilities, socially isolated segments of the society and women or children)?		<input checked="" type="checkbox"/>	
3. Disproportionate impacts on the poor, women and children and or other vulnerable groups (mentioned above)?		<input checked="" type="checkbox"/>	
4. Temporary impediments in movements of people/transport and animals?		<input checked="" type="checkbox"/>	
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)?		<input checked="" type="checkbox"/>	
6. Social conflicts if workers from other areas are hired?		<input checked="" type="checkbox"/>	
7. Risks and vulnerabilities related to occupational health and safety due to physical, chemical, biological, and radiological hazards during project construction and operation?	*	<input checked="" type="checkbox"/>	

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



Screening Questions	Yes	No	Remarks
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?		<input checked="" type="checkbox"/>	
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?		<input checked="" type="checkbox"/>	
10. Are there any demographic or socio-economic aspects of the Project area that are already vulnerable (e.g., high incidence of marginalized populations, rural-urban migrants, illegal settlements, ethnic minorities, women or children)?		<input checked="" type="checkbox"/>	

Prepared By:

Name: Zulfyqazi Shah

Signature: *Zulfyqazi Shah*

Date: 12/1/11

Municipal Officer (I & S)
Municipal Corporation, Okara

Endorsed By:

Name: Asif Gilmani

Signature: *Asif Gilmani*

Date: 11/2/11

Photographs



Parking Area Details

Punjab Cities Program
 Parking areas for Solid Waste Management and other Machinery & Equipment
 Name of Municipal Committee / Corporation: OKARA
 Date of visit: 17-02-2021

S. No	Location of the Land	Coordinates	Approx. area (Kanaals)	Approach road		Availability of Sewer pipeline			Availability of water supply pipeline		Remarks
				Condition	Width (ft)	Dia (inch)	Distance (ft.)	Functionality	Dia (inch)	Distance (ft.)	
	Eidgah Road Fire Brigade Colony	Long 73.441241 Lat. 30.810269	2.88	Very Good	24	92	185	Best Working	5"	700	Back doors of clusters should have to be closed

Inhabitation / description of the surrounding area			
North	<u>Christian Colony / Fire Brigade Colony</u>		South <u>Govt. Girls Model High School</u>
East	<u>D.H.Q. Okara</u>		West <u>Sabzi Mandi / Fire Brigade Colony</u>

Facilities already available									
Boundary wall		Gate		Area (sft)	Sheds Type of structure <u>Brick wall & Calumn w/area Shed</u>	Condition	Apron		Any other facility
Height (ft)	Condition	Availability	Condition				Paved/unpaved	Type of pavement	
N/A	N/A	No	N/A	2150		Normal	Unpaved	Compacted Earth	

Regional Program Officer (ID)		ARE Okara <u>Landmark Project</u> (Consultants)		MO (I&S) or Sub Engineer	
Name	Signature	Name	Signature	Name	Signature
<u>Engr. Muhammad Saifuz Majid</u>		<u>Sulaiman Idani</u>		<u>ZULFIKAR SHAIKH</u> <u>MO RPA 2/E</u>	

Approximate distance from MC office (Km) _____

PUNJAB CITIES PROGRAM

ENVIRONMENT, HEALTH AND SAFETY SOPs FOR LABOR/WORKERS

Labor /workers play key role in the infrastructure development and construction activities. The objective of preparation of the EHS SOPs for Labor/Workers is to address environment, health and safety issues related to the proposed sub-project implementation. These SOPs will provide guidelines to be followed by the contractors for effective management of EHS issues related to labor/workers/daily wagers (including women). These SOPs will be annexed in the general conditions of all the contracts carried out under the PCP. These SOPs are designed for Punjab Cities Program and will be applicable to all types of labor/workers/daily wagers (including women), hired for the construction activities under PCP. Following are the anticipated Environment, Health and Safety issues and their recommended mitigation measures.

Table 1: Construction Camp Management

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
Siting and Location of construction camps	<p>Camp sites for construction workers are the important locations that have significant impacts such as health and safety hazards on labor/workers</p> <p>Lack of proper infrastructure facilities, such as housing, water supply and sanitation facilities will increase pressure on the local services and generate substandard living standards and health hazards.</p>	<p>The Contractor shall:</p> <p>Locate the construction camps at areas which are acceptable from environmental, cultural or social point of view.</p> <p>Consider the location of construction camps away from communities in order to avoid social conflict with the surrounding communities.</p> <p>Submit to the relevant MC for approval of a detailed layout plan for the development of the construction camp showing the relative locations of all temporary buildings and facilities that are to be constructed together with the location of site roads, fuel storage areas (for use in power supply generators), solid waste management and dumping locations, and drainage facilities, prior to the development of the construction camps.</p> <p>Local authorities responsible for health, religious and security shall be duly informed on the set up of camp facilities so as to maintain effective surveillance over public health, social and security matters</p>
Construction Camp Facilities	<p>Lack of proper infrastructure facilities, such as housing, water supply and sanitation facilities will generate social issues and impacts on health and environment.</p>	<p>Contractor shall provide the following facilities in the campsites:</p> <p>Adequate ventilation facilities</p> <p>Safe and reliable drinking water supply for personal hygiene (washing or bathing)</p> <p>Adequate housing for all workers</p> <p>Safe and reliable drinking water supply. Water supply from tube wells that meets the Punjab Environment Quality Standards</p> <p>Hygienic sanitary facilities, hand washing facilities and sewerage system.</p> <p>The toilets and domestic waste water will be collected</p>

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
		<p>through a common sewerage.</p> <p>Provide separate latrines and bathing places for males and females with total isolation by wall or by location. Female toilets should be clearly marked in language or signage clearly understood by the persons using them to avoid miscommunication. The minimum number of toilet facilities required is one toilet for every ten persons.</p> <p>Storm water drainage facilities. Both sides of roads are to be provided with shallow v drains to drain off storm water to a silt retention pond which shall be sized to provide a minimum of 20 minutes retention of storm water flow from the whole site. Channel all discharge from the silt retention pond to natural drainage via a grassed swale at least 20 meters in length with suitable longitudinal gradient.</p> <p>Paved internal roads. Ensure with grass/vegetation coverage to be made of the use of top soil that there is no dust generation from the loose/exposed sandy surface. Pave the internal roads of at least haring-bond bricks to suppress dusts and to work against possible muddy surface during monsoon.</p> <p>Provide child crèches for women working on the construction site. The crèche should have facilities for dormitory, kitchen, indoor/outdoor play area. Schools should be attached to these crèches so that children are not deprived of education whose mothers are construction workers</p> <p>Provide in-house community/common entertainment facilities. Dependence of local entertainment outlets by construction camps to be discouraged/prohibited to the extent possible.</p>
Disposal of Labor Camp waste	Management of wastes is crucial to minimize impacts on the environment as well as on the health of the workers/labor	<p>The Contractor shall:</p> <p>Ensure proper collection and disposal of solid wastes within the construction camps</p> <p>Insist waste separation by source; organic wastes in one pot and inorganic wastes in another pot at household level.</p> <p>Store inorganic wastes in a safe place within the household and clear organic wastes on daily basis to waste collector. Establish waste collection, transportation and disposal systems at their own.</p> <p>Dispose organic wastes in a designated safe place on daily basis. At the end of the day cover the organic wastes with a thin layer of sand so that flies, mosquitoes, dogs, cats, rats, are not attracted. One may dig a large hole to put organic wastes in it; take care to protect groundwater from contamination by leachate formed due to decomposition. Cover the bed of the pit with impervious layer of materials (clayey, thin concrete) to protect groundwater from</p>

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
		<p>contamination.</p> <p>Locate the garbage pit/waste disposal site min 500 m away from the residence so that peoples are not disturbed with the odor likely to be produced from anaerobic decomposition of wastes at the waste dumping places. Encompass the waste dumping place by fencing and tree plantation to prevent children to enter and play with.</p> <p>All solid waste will be collected and removed from the work camps and disposed in approval waste disposal sites.</p>
Fuel supplies for cooking purposes	Illegal sourcing of fuel wood by construction workers will impact the natural flora and fauna	<p>The Contractor shall:</p> <p>Provide fuel to the construction camps for their domestic purpose, in order to discourage them to use fuel wood or other biomass.</p> <p>Make available alternative fuels like natural gas or kerosene on ration to the workforce to prevent them using biomass for cooking.</p> <p>Conduct awareness campaigns to educate workers on preserving the protecting of biodiversity in the project area, and relevant government regulations and punishments on wildlife protection.</p>
Health and Hygiene	There will be a potential for diseases to be transmitted including COVID-19, malaria, exacerbated by inadequate health and safety practices. There will be an increased risk of work crews spreading sexually transmitted infections and HIV/AIDS.	<p>The Contractor shall:</p> <p>Provide adequate health care facilities within construction sites.</p> <p>Provide first aid box facility at the construction site round the clock. Maintain stock of medicines in the first aid facility in camp sites facility and appoint fulltime designated first aider or nurse.</p> <p>Provide ambulance facility for the laborers during emergency to be transported to nearest hospitals and telephone/mobile facility to call for Emergency Services 1122.</p> <p>Initial health screening of the laborers coming from outside areas</p> <p>Train all construction workers in basic sanitation and health care issues and safety matters, and on the specific hazards of their work</p> <p>Provide HIV awareness programming, including STI (sexually transmitted infections) and HIV information, education and communication for all workers on regular basis</p> <p>Provide adequate drainage facilities throughout camps to ensure that disease vectors habitats (stagnant water bodies, puddles) do not form.</p> <p>Regular mosquito repellent sprays in monsoon.</p> <p>Carryout short training sessions on best hygiene practices to</p>

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
		<p>be mandatorily participated by all workers.</p> <p>Place display boards at strategic locations within the camps containing messages on best hygienic practices</p> <p>Place display boards of contact information of nearest dispensary/health clinic/hospital</p>
Safety	<p>In adequate safety facilities to the construction camps may create security problems and fire hazards</p>	<p>The Contractor shall:</p> <p>Provide appropriate security personnel (police / home guard or private security guards) and enclosures to prevent unauthorized entry in to the camp area.</p> <p>Maintain register to keep track on a head count of persons present in the camp at any given time.</p> <p>Encourage use of flame proof material for the construction of labor housing/site office. Ensure that these houses/rooms are of sound construction and capable of withstanding storms/cyclones.</p> <p>Provide appropriate type of firefighting equipment suitable for the construction camps</p> <p>Display emergency contact numbers clearly and prominently at strategic places in camps.</p> <p>Communicate the roles and responsibilities of laborers in case of emergency in the monthly meetings with contractor.</p>
Food Safety	<p>There is potential for exposure to poisonous substances by ingestion</p>	<p>Suitable arrangements are to be made for provision of clean eating areas where workers are not exposed to the hazardous or noxious substances</p>
Site Restoration	<p>Restoration of the construction camps to original condition requires demolition of construction camps.</p>	<p>The Contractor shall:</p> <p>Dismantle and remove from the site all facilities established within the construction camp including the perimeter fence and lockable gates at the completion of the construction work.</p> <p>Dismantle camps in phases as the work decreases (do not wait for completion of the entire work.</p> <p>Give prior notice to the laborers before demolishing their camps/units</p> <p>Maintain the noise levels within the national standards during demolition activities</p> <p>Different contractors should be hired to demolish different structures to promote recycling or reuse of demolished material.</p> <p>Reuse the demolition debris to a maximum extent. Dispose remaining debris at the designated waste disposal site by MCs/ESFPs.</p> <p>Handover the construction camps with all built facilities as it is if agreement between both parties (contractor and land-owner) has been made so.</p>

Activity/ Impact Source	EHS Concerns/issues	Mitigation Measures/ Management Guidelines
		<p>Restore the site to its original condition or to an agreed condition with the landowner defined prior to the commencement of the works (in writing).</p> <p>Not make false promises to the laborers for future employment in O&M of the project.</p>

Table 2: Cultural and Religious Issues

Activity/ Impact Source	Environmental Impacts	Mitigation Measures/ Management Guidelines
Construction activities	Disturbance in performance of religious activities	<p>The Contractor shall:</p> <p>Provide separate prayer facilities (men and women) to the construction workers.</p> <p>Show appropriate and non-biased behavior with all construction workers irrespective of their religious or cultural affinities</p> <p>Allow the workers to participate in praying during construction time</p> <p>Inform the local authorities responsible for health, religious and security duly informed before commencement of civil works so as to maintain effective surveillance over public health, social and security matters</p> <p>In case of working during COVID-19 pandemic, SOPs for prayers in Mosque issued by the Government of Punjab, will be applicable and it will be responsibility of contractor to sensitize the labor/workers about it</p>

Table 3: Workers/Labor Health and Safety at Construction Site

Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Construction Activities	Construction works may pose health and safety risks to the construction workers and site visitors leading to severe injuries and deaths. The population in the proximity of the construction site and the construction workers will be exposed to a number of (i) biophysical health risk factors, (e.g. noise,	<p>The Contractor shall:</p> <p>Implement suitable safety standards for all workers and site visitors which should not be less than those laid down on the international standards (e.g. International Labor Office guideline on ‘Safety and Health in Construction; World Bank Group’s ‘Environmental Health and Safety Guidelines’) and contractor’s own national standards or statutory regulations, in addition to complying with the national acts and rules of the Government of Pakistan</p> <p>Provide the workers with a safe and healthy work environment, taking into account inherent risks in its particular construction activity and specific classes of</p>

Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
	<p>dust, chemicals, construction material, solid waste, waste water, vector transmitted diseases etc), (ii) risk factors resulting from human behavior (e.g. STD, HIV etc) and (iii) road accidents from construction traffic.</p>	<p>hazards in the work areas, Provide Personal Protection Equipment (PPEs)¹ for workers, such as safety boots, helmets, masks, gloves, protective clothing, goggles, full-face eye shields, and ear protection. Maintain the PPE properly by cleaning dirty ones and replacing them with the damaged ones. Safety procedures include provision of information, training and protective clothing to workers involved in hazardous operations and proper performance of their job Appoint an environment, health and safety manager to look after the health and safety of the workers Inform the local authorities responsible for health, religious and security before commencement of civil works and establishment of construction camps so as to maintain effective surveillance over public health, social and security matters</p>
	<p>Child and pregnant labor</p>	<p>The Contractor shall: not hire children of less than 14 years of age and pregnant women or women who delivered a child within 8 preceding weeks, in accordance with the Employment of Children Act (2015)² and Pakistani Labor Laws and policies respectively .</p>

¹ Table 4 presents general examples of occupational hazards and types of PPE available for different purposes.

² The ECA 2015 defines a child as a person who has not completed his/her 14th year of age. The ECA states that no child shall be employed or permitted to work in any of the occupations set forth in the ECA (such as transport sector, railways, construction, and ports) or in any workshop wherein any of the processes defined in the Act is carried out

Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
Accidents	Lack of first aid facilities and health care facilities in the immediate vicinity will aggravate the health conditions of the victims	<p>Provide health care facilities and first aid facilities are readily available. Appropriately equipped first-aid stations should be easily accessible throughout the place of work</p> <p>Document and report occupational accidents, diseases, and incidents.</p> <p>Prevent accidents, injury, and disease arising from, associated with, or occurring in the course of work by minimizing, so far as reasonably practicable, the causes of hazards. In a manner consistent with good international industry practice.</p> <p>Identify potential hazards to workers, particularly those that may be life-threatening and provide necessary preventive and protective measures.</p> <p>Provide awareness to the construction drivers to strictly follow the driving rules</p> <p>Provide adequate lighting in the construction area and along the roads</p>
Water and sanitation facilities at the construction sites	Lack of Water sanitation facilities at construction sites cause inconvenience to the construction workers and affect their personal hygiene.	<p>The contractor shall provide separate portable toilets and hand washing facilities at the construction sites, if about 25 people are working the whole day for a month. Location of portable facilities should be at least six m away from storm drain system and surface waters. These portable toilets should be cleaned once a day and all the sewerage should be pumped from the collection tank once a day and should be brought to the common septic tank for further treatment.</p> <p>Contractor should provide bottled drinking water facilities to the construction workers at all the construction sites.</p>
Other issues	Potential risks on health and hygiene of construction workers and general public	<p>The Contractor shall follow the following management measures to reduce health risks to the construction workers and nearby community:</p> <p>Drainage Management</p> <p>Air Quality Management</p> <p>Noise and Vibration Management</p> <p>Road Transport and Road Traffic Management</p>
Trainings	Lack of awareness and basic knowledge in health care among the construction workforce, make them susceptible to potential diseases.	<p>The Contractor shall:</p> <p>Train all construction workers in basic sanitation and health care issues (e.g., how to avoid COVID-19, malaria and transmission of sexually transmitted infections (STI) HIV/AIDS.</p> <p>Train all construction workers in general health and safety matters, and on the specific hazards of their work Training should consist of basic hazard awareness, site specific</p>

3 .SOPs issued by the GoPunjab during COVID-19 Pandemic will be implemented

Activity/ Impact Source	Impacts	Mitigation Measures/ Management Guidelines
		<p>hazards, safe work practices, and emergency procedures for fire, evacuation, and natural disaster, as appropriate.</p> <p>Commence the COVID-19, malaria, HIV/AIDS and STI education campaign before the start of the construction phase and complement it with by a strong condom marketing, increased access to condoms in the area as well as to voluntary counseling and testing.</p> <p>Implement COVID-19, malaria, HIV/AIDS and STI education campaign targeting all workers hired, international and national, female and male, skilled, semi- and unskilled occupations, at the time of recruitment and thereafter pursued throughout the construction phase on ongoing and regular basis. This should be complemented by easy access to condoms at the workplace as well as to voluntary counseling and testing.</p>

Table 4: Summary of Recommended Personal Protective Equipment According to Hazard⁴

Objective	Workplace Hazards	Suggested PPE
Eye and face protection	Flying particles, molten metal, liquid chemicals, gases or vapors, light radiation.	Safety Glasses with side-shields, protective shades, etc.
Head protection	Falling objects, inadequate height clearance, and overhead power cords.	Plastic Helmets with top and side impact protection.
Hearing protection	Noise, ultra-sound.	Hearing protectors (ear plugs or ear muffs).
Foot protection	Falling or rolling objects, pointed objects. Corrosive or hot liquids.	Safety shoes and boots for protection against moving & falling objects, liquids and chemicals.
Hand protection	Hazardous materials, cuts or lacerations, vibrations, extreme temperatures.	Gloves made of rubber or synthetic materials (Neoprene), leather, steel, insulating materials, etc.
Respiratory protection	Dust, fogs, fumes, mists, gases, smokes, vapors.	Facemasks with appropriate filters for dust removal and air purification (chemicals, mists, vapors and gases). Single or multi-gas personal monitors, if available.
	Oxygen deficiency	Portable or supplied air (fixed lines). On-site rescue equipment.
Body/leg protection	Extreme temperatures, hazardous materials, biological agents, cutting and laceration.	Insulating clothing, body suits, aprons etc. of appropriate materials.

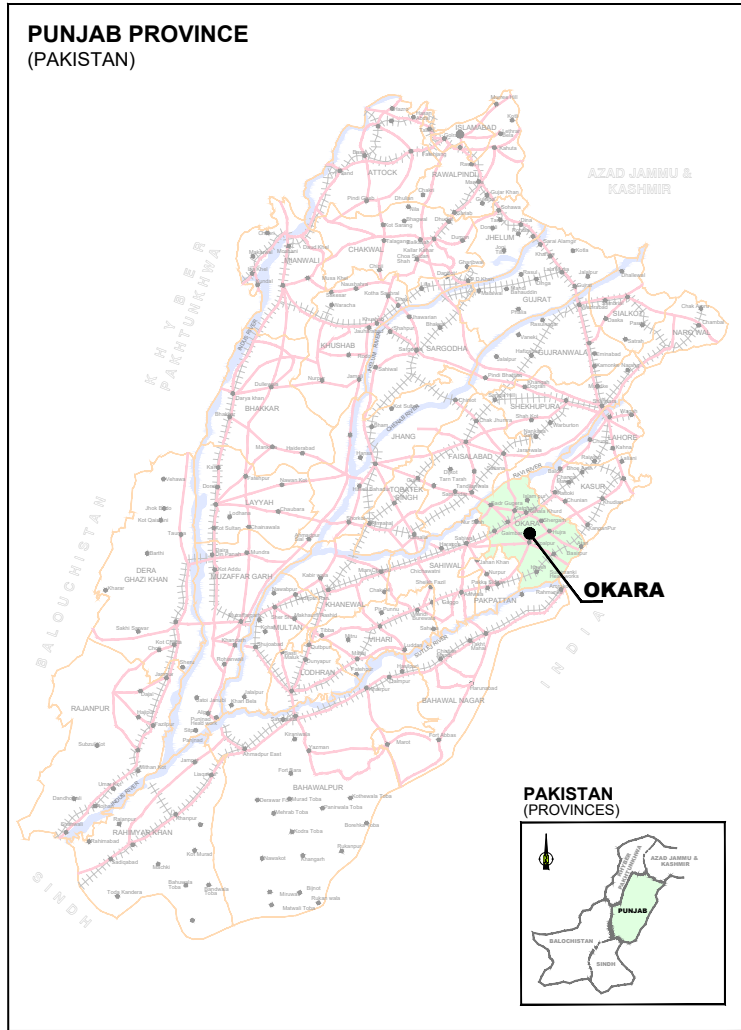
⁴ Source: IFC Environmental, Health, and Safety (EHS) Guidelines

Annexure-F

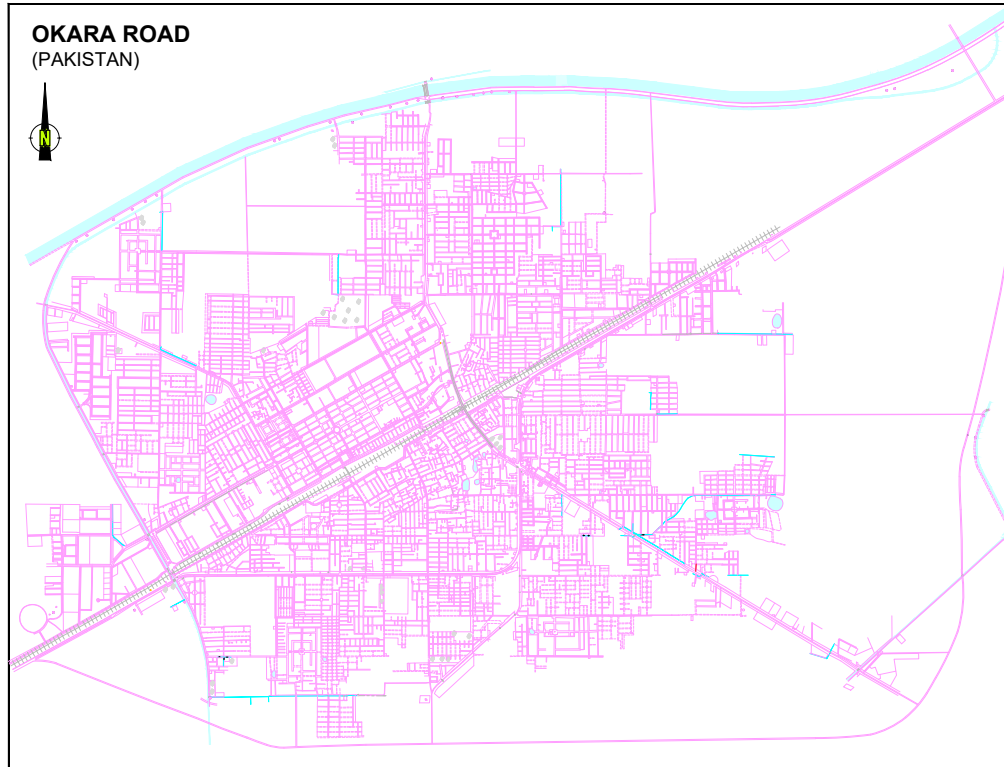
Project Drawings

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

**PUNJAB PROVINCE
 (PAKISTAN)**



**OKARA ROAD
 (PAKISTAN)**



**DESIGN DRAWINGS OF
 PARKING SHED
 MC OKARA
 PUNJAB, PAKISTAN**

JULY, 2022

CLIENT:



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

CONSULTANT:



JERS CONSULTANCY (PVT) LTD



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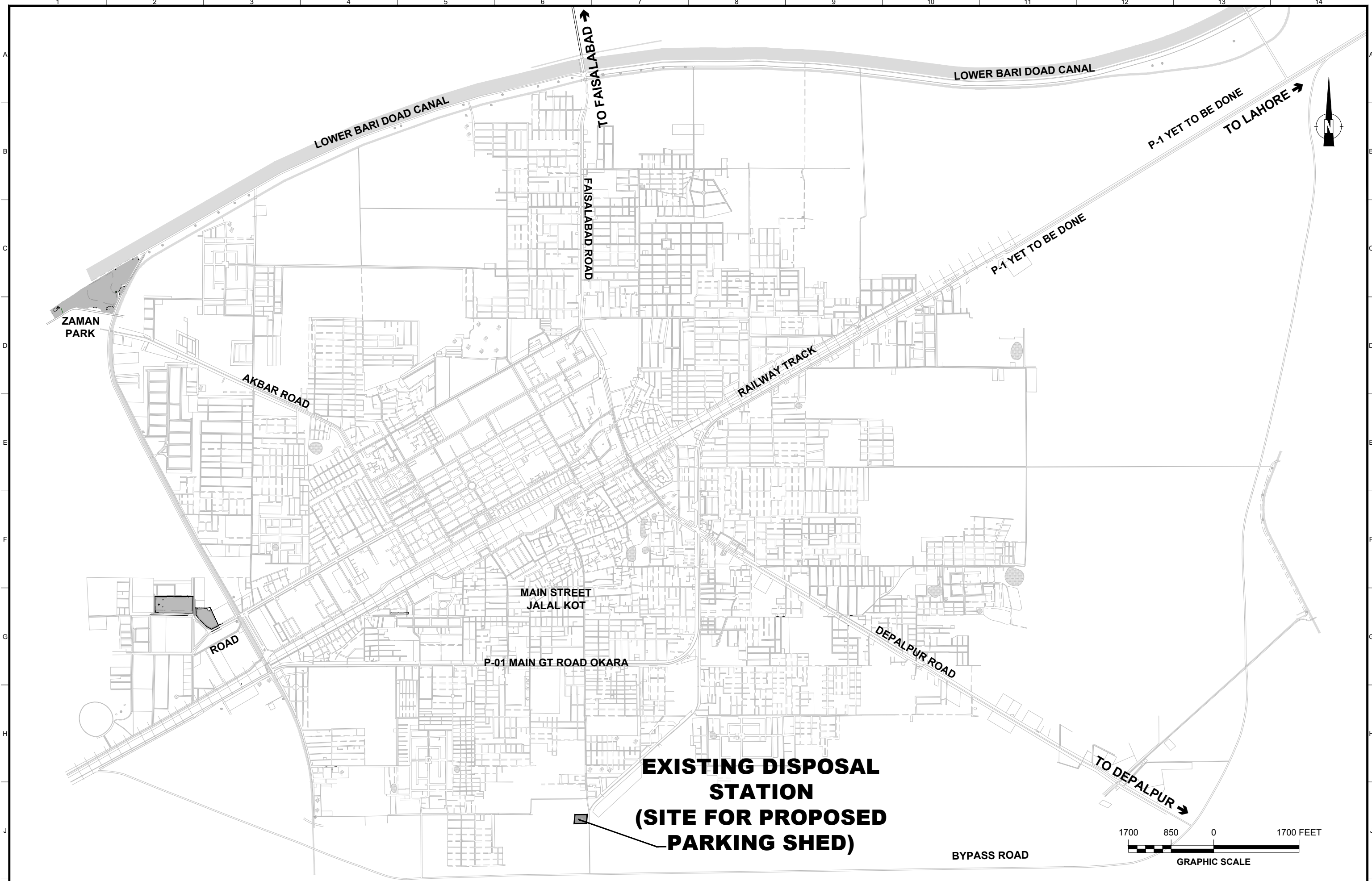
LIST OF DRAWINGS

Sr.No.	DESCRIPTION	DRAWING NO.
SWM PARKING SHED DRAWINGS		
1	PROJECT KEY PLAN	PS-01
2	PARKING SHED TOPOGRAPHIC SURVEY	PS-02
3	PROPOSED SWM PARKING SHED LAYOUT PLAN	PS-03
4	PROPOSED SWM PARKING SHED, SUPER IMPOSED ON EXISTING AREA	PS-04
5	GROUND FLOOR PLAN PARKING SHED-1	PS-05
6	ROOF PLAN PARKING SHED-1	PS-06
7	RIGID FRAME ELEVATION PARKING SHED-1	PS-07
8	FOOTING DETAILS PARKING SHED-1	PS-07-A
9	GROUND FLOOR PLAN PARKING SHED-2	PS-08
10	ROOF PLAN PARKING SHED-2	PS-09
11	RIGID FRAME ELEVATION PARKING SHED-2	PS-10
12	GROUND FLOOR & ROOF PLAN PARKING SHED-3 & 4	PS-11
13	RIGID FRAME ELEVATION PARKING SHED-3 & 4	PS-12
14	FOOTING DETAILS PARKING SHED-3 & 4	PS-12-A
15	WASHING PIT DETAIL	PS-13
16	BOUNDARY WALL DETAIL	PS-14
17	GENERATOR PAD DETAIL	PS-15
18	ENTERANCE GATE	PS-16
19	TYPICAL ROAD CROSS SECTION	PS-17
20	PUMP PAD & SEPTIC TANK DETAIL	PS-18
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21	LEGEND & NOTES (STORE)	A-01
22	GROUND FLOOR & ROOF PLAN (STORE)	A-02
23	ELEVATION-01,02& SECTION A-A (STORE)	A-03
24	DOOR WINDOW SCHEDULE (STORE)	A-04
25	LEGEND & NOTES (OFFICE BLOCK)	A-05
26	GROUND FLOOR & ROOF PLAN (OFFICE BLOCK)	A-06
27	ELEVATION-01,02& SECTION A-A (OFFICE BLOCK)	A-07
28	ELEVATION-01,02& SECTION A-A (OFFICE BLOCK)	A-08
29	DOOR WINDOW SCHEDULE (OFFICE BLOCK)	A-09
30	LEGEND & NOTES (SITTING AREA)	A-10
31	GROUND FLOOR & ROOF PLAN (SITTING AREA)	A-11
32	ELEVATION-01,02& SECTION A-A (SITTING AREA)	A-12
33	ELEVATION-01,02& SECTION A-A (SITTING AREA)	A-13
34	DOOR WINDOW SCHEDULE (SITTING AREA)	A-14

Sr.No.	DESCRIPTION	DRAWING NO.
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36	GROUND FLOOR & ROOF PLAN (GUARD ROOM)	A-16
37	ELEVATION-01, 02 (GUARD ROOM)	A-17
38	SECTION A-A (GUARD ROOM)	A-18
39	DOOR WINDOW SCHEDULE (GUARD ROOM)	A-19
40	LEGEND & NOTES (WORKSHOP)	A-20
41	GROUND FLOOR PLAN (WORKSHOP)	A-21
42	ROOF PLAN (WORKSHOP)	A-22
43	RIGID FRAME SECTIONAL ELEVATION A-A (WORKSHOP)	A-23
44	SECTION B-B (WORKSHOP)	A-24
45	FOUNDATION DETAIL (WORKSHOP)	A-25
46	DOOR WINDOW SCHEDULE (WORKSHOP)	A-26
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47	LEGEND & NOTES	E-00
48	ELECTRICAL CABLE ROUTE LAYOUT PLAN	E-01
49	EXTERNAL ROAD LIGHTING LAYOUT PLAN	E-02
50	LIGHTING & SMALL POWER LAYOUT PLAN (PROPOSED STORE)	E-03
51	LIGHTING & SMALL POWER LAYOUT PLAN OFFICE BLOCK	E-04
52	LIGHTING & SMALL POWER LAYOUT PLAN SITTING AREA	E-05
53	LIGHTING & SMALL POWER LAYOUT PLAN GUARD ROOM	E-06
54	LIGHTING & SMALL POWER LAYOUT PLAN WORKSHOP	E-07
55	LIGHTING LAYOUT PLAN PARKING SHED 01	E-08
56	LIGHTING LAYOUT PLAN PARKING SHED 02 & 03	E-09
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58	SINGLE LINE LAYOUT PLAN PARKING SHED 01	SLD - 01
59	DETAIL OF DISTRIBUTION BOARD PARKING SHED 01	SLD - 02

Sr.No.	DESCRIPTION	DRAWING NO.
PLUMBING DRAWINGS		
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62	WATER SUPPLY LAYOUT PLAN OFFICE BLOCK	W-02
63	WATER SUPPLY GROUND FLOOR SITTING AREA	W-03
64	GROUND FLOOR WATER SUPPLY LAYOUT WORKSHOP	W-04
65	PROPOSED SWM PARKING SHED, SEWER SYSTEM	S-01
66	SEWER SYSTEM GROUND FLOOR & ROOF PLAN PROPOSED STORE	S-02
67	SEWER SYSTEM GROUND & ROOF LAYOUT PLAN OFFICE BLOCK	S-03
68	SEWER SYSTEM GROUND FLOOR & ROOF PLAN SITTING AREA	S-04
69	GROUND FLOOR & ROOF PLAN GUARD ROOM DRAINAGE LAYOUT	S-05
70	GROUND FLOOR SEWER SYSTEM LAYOUT WORKSHOP	S-06
71	ROOF PLAN SEWER SYSTEM LAYOUT WORKSHOP	S-07
72	GROUND FLOOR & ROOF LAYOUT PLAN PARKING SHED-1	D-01
73	GROUND FLOOR & ROOF LAYOUT PLAN PARKING SHED-2	D-02
74	GROUND FLOOR & ROOF DRAINAGE LAYOUT PLAN PARKING SHED-3 & 4	D-03
75	RAIN WATER OUTLET DETAIL	D-04
76	MISCLLANEOUS DETAIL	M-01
77	MISCLLANEOUS DETAIL	M-02

<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 style="text-align: center;">PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 248</p>	<p>DRAWING TITLE:</p> <p style="text-align: center;">LIST OF DRAWINGS (OKARA CITY)</p>	<p>DRAWN BY:</p> <p style="text-align: center;">Asif</p> <p>CHECKED BY:</p> <p style="text-align: center;">Fizza</p> <p>DATE:</p> <p style="text-align: center;">June,2022</p>	<p>DRAWING NO:</p> <p style="text-align: center;">L-01</p> <p>SCALE:</p> <p style="text-align: center;">UNIT=FEET</p> <p>SHEET:</p> <p style="text-align: center;">-</p> <p>JOB NO:</p> <p style="text-align: center;">488-01</p>
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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:
**PROJECT KEY PLAN
 (OKARA CITY)**

REV.	DATE	DESCRIPTION









DRAWN BY:
Asif
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

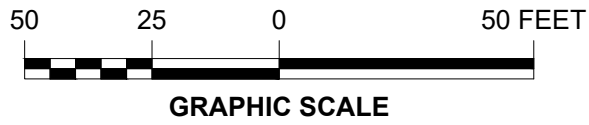
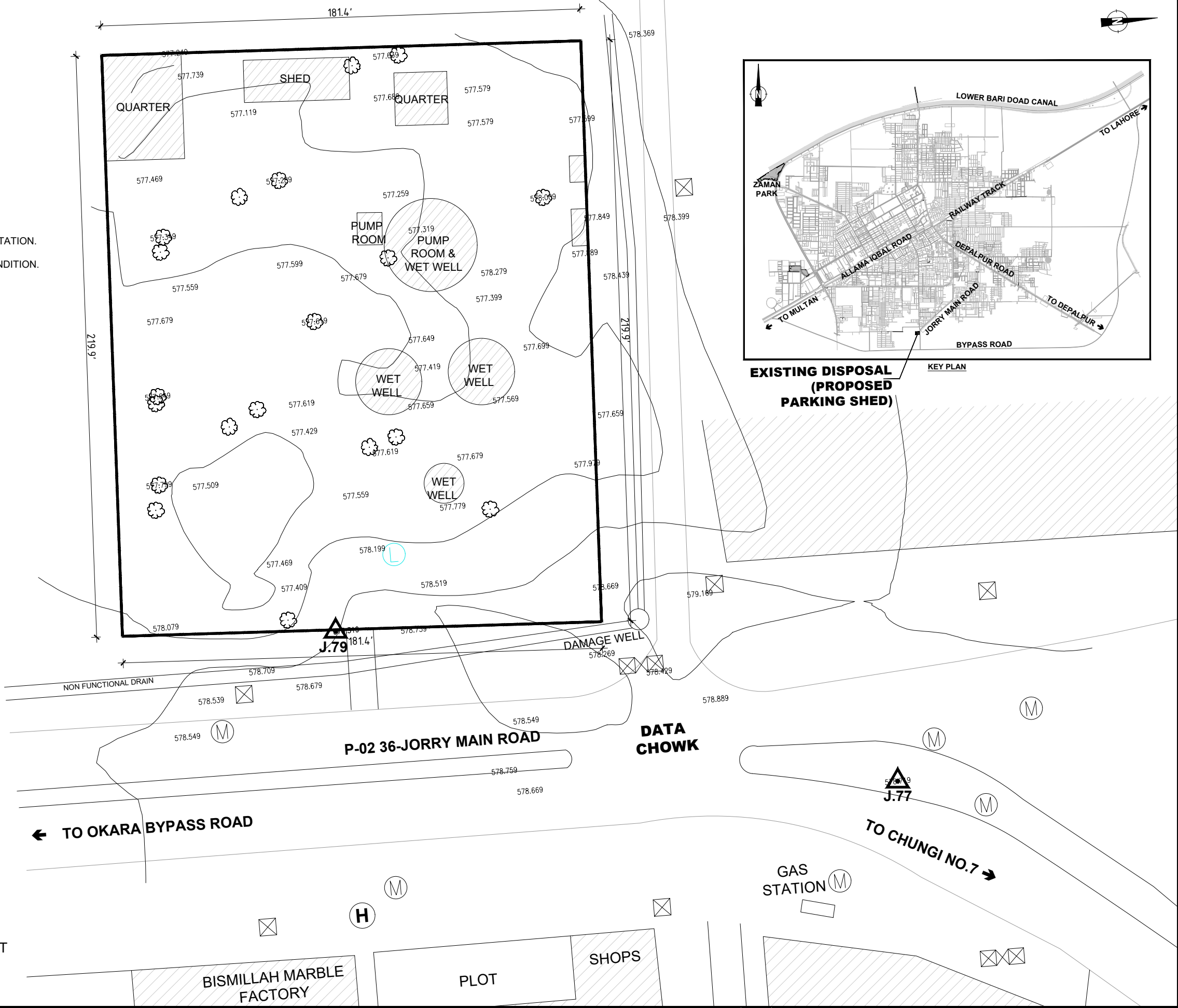
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PS-01
 SCALE:
 UNIT=FEET
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 SHEET:
 -
 JOB NO:
 488-01



NOTES:

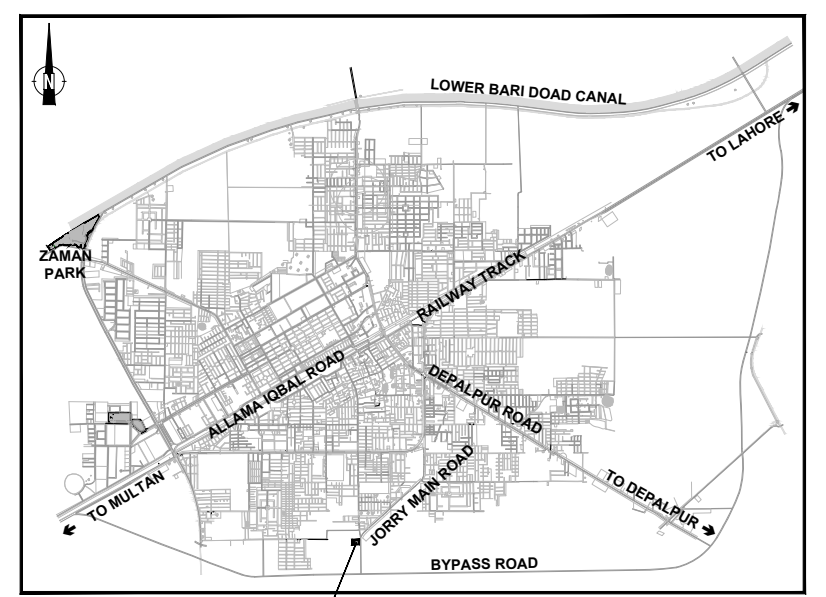
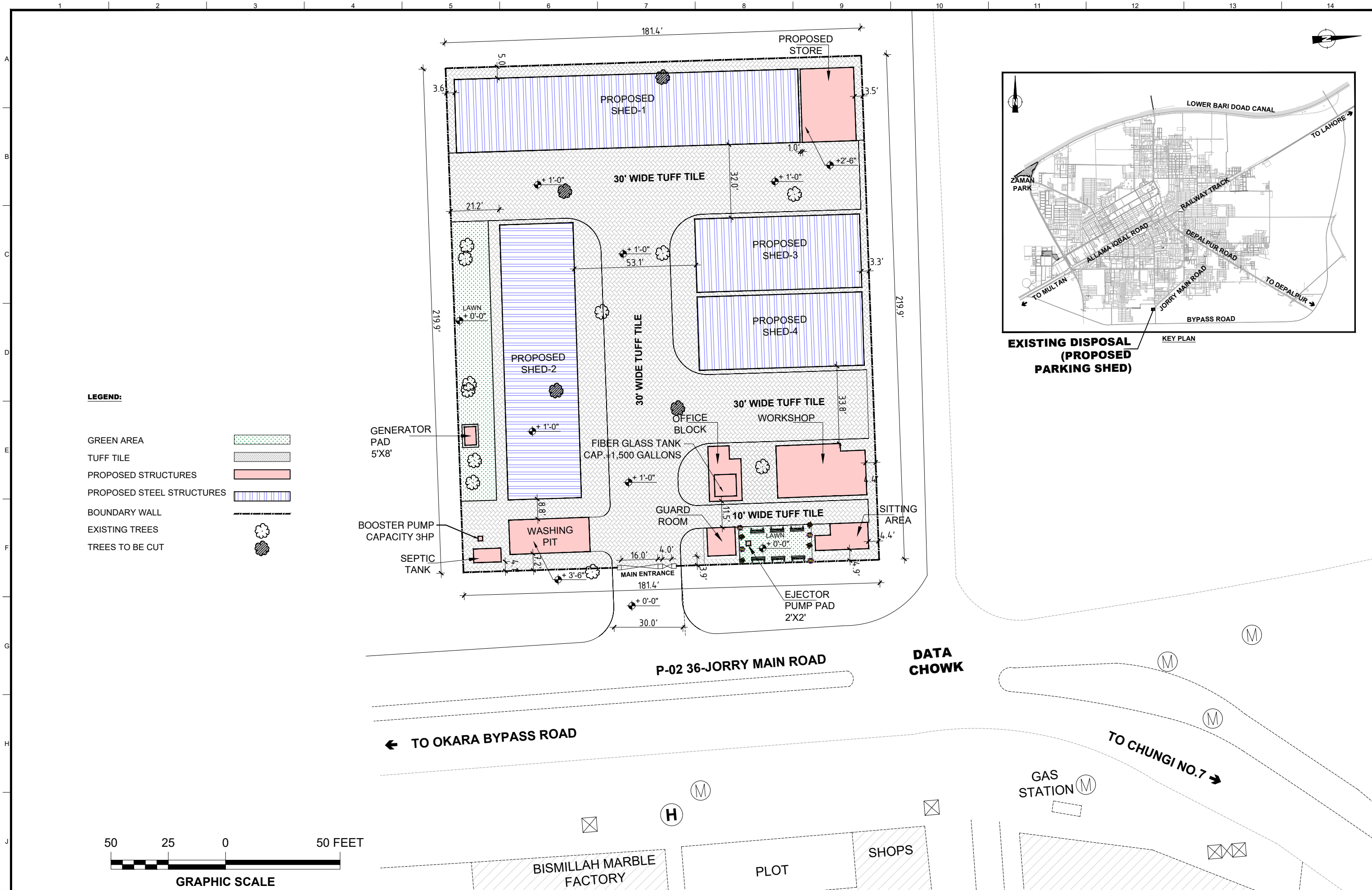
- 1- PROJECT AREA IS BASICALLY AN ABANDONED DISPOSAL STATION.
- 2- ALL EXISTING STRUCTURES ARE NOT IN SERVICEABLE CONDITION.

LEGEND:

- EXISTING BUILT-UP AREA 
- BOUNDARY WALL 
- EXISTING TREES 
- CONTROL POINT 
- EXISTING ELECTRICAL POLE 
- EXISTING ELECTRICAL LIGHT 
- EXISTING ELECTRICAL TRANSFORMERS 
- EXISTING SEWERAGE 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>PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 250</p>	<p>DRAWING TITLE:</p> <p>SWM PARKING SHED AREA TOPOGRAPHIC SURVEY (OKARA CITY)</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> </tbody> </table>	REV.	DATE	DESCRIPTION							<p>DRAWN BY:</p> <p>Asif</p> <p>CHECKED BY:</p> <p>Sadat Waleed</p> <p>DATE:</p> <p>June, 2022</p>	<p>DRAWING NO:</p> <p>PS-02</p> <p>SCALE:</p> <p>UNIT=FEET</p> <p>SHEET:</p> <p>JOB NO:</p> <p>488-01</p>
REV.	DATE	DESCRIPTION													



**EXISTING DISPOSAL
(PROPOSED
PARKING SHED)**

KEY PLAN

LEGEND:

- GREEN AREA
- TUFF TILE
- PROPOSED STRUCTURES
- PROPOSED STEEL STRUCTURES
- BOUNDARY WALL
- EXISTING TREES
- TREES TO BE CUT



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. 251	DRAWING TITLE: PROPOSED SITE PLAN LAYOUT (OKARA CITY)	DRAWN BY: Asif CHECKED BY: Sadat Waleed DATE: June, 2022	DRAWING NO: PS-03 SCALE: UNIT=FEET 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									








NOTES:

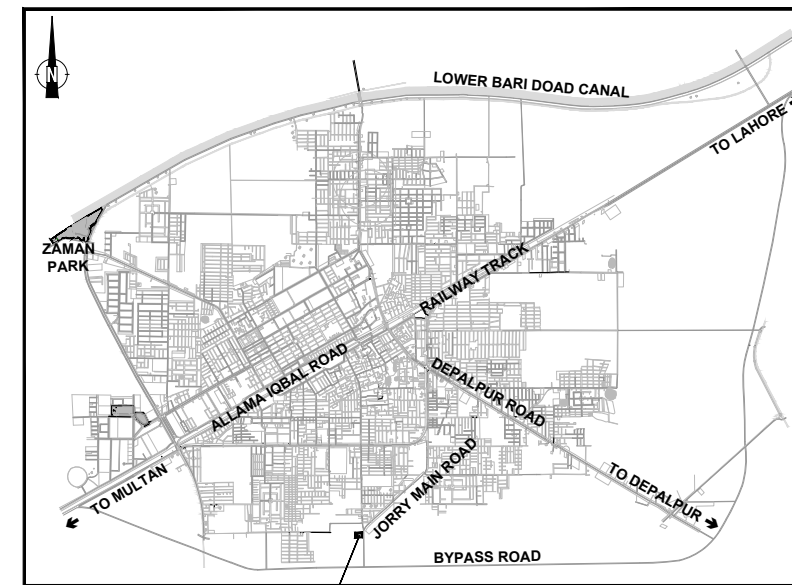
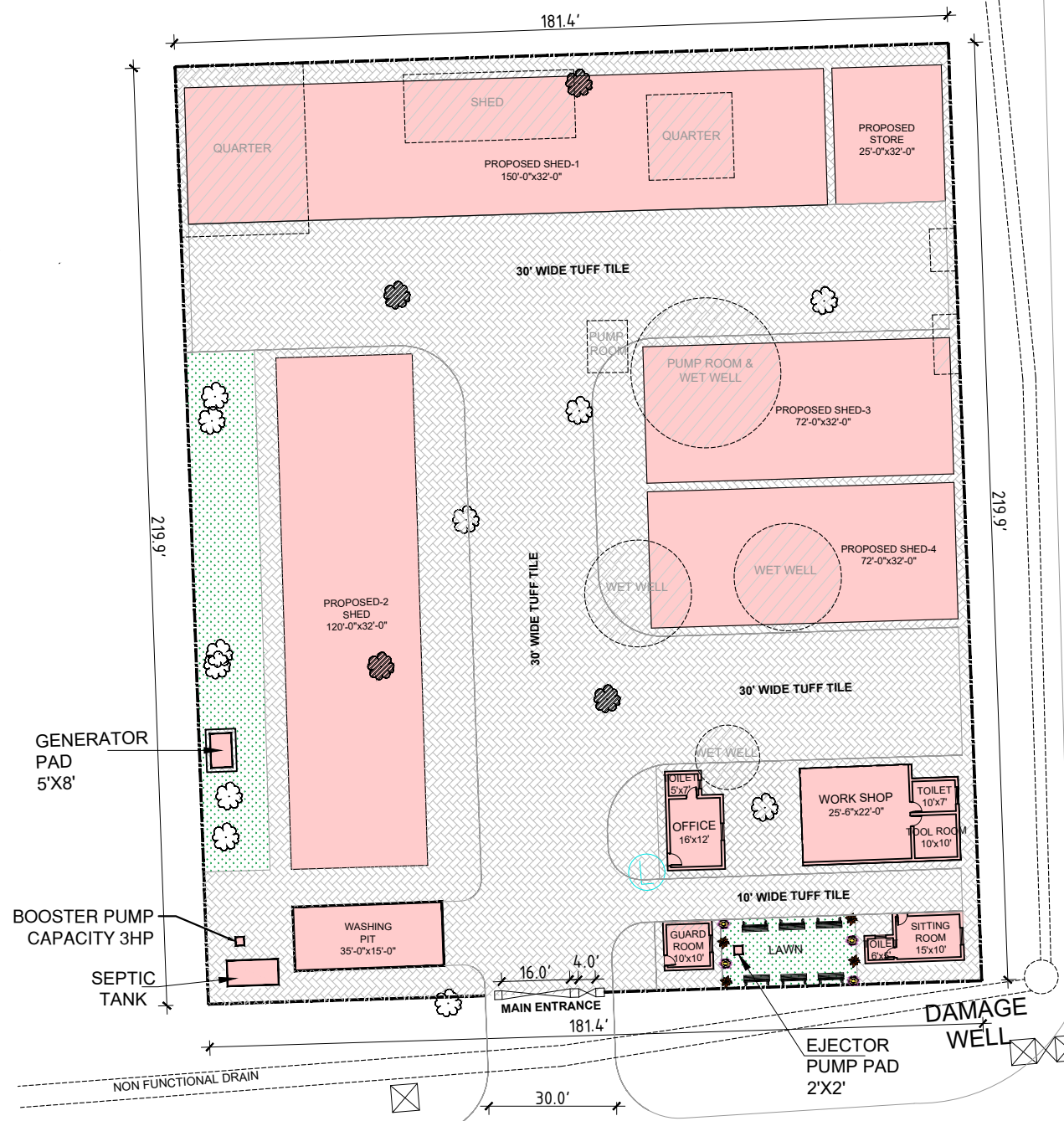
- 1- PROJECT AREA IS BASICALLY AN ABANDONED DISPOSAL STATION.
- 2- ALL EXISTING STRUCTURES ARE NOT IN SERVICEABLE CONDITION.
- 3- PROPOSED PARKING SHED FOR SWM MACHINERY HAS BEEN PLANNED SUBJECT TO CONSIDERATION OF DISMANTLING/DEMOLISHING OF ALL EXISTING STRUCTURES.

NOTES:

- 1-TOTAL SWM PARKING AREA = 7.34 KANALS
- 2-TOTAL SW MACHINERY IN OKARA = 25
- 3-PROPOSED PARKING CAPACITY OF SW MACHINERY IN OKARA PARKING SHED AREA = 28

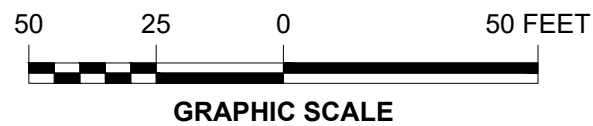
LEGEND:

- EXISTING STRUCTURES TO BE DEMOLISHED 
- GREEN AREA 
- TUFF TILE 
- PROPOSED STRUCTURES 
- BOUNDARY WALL 
- EXISTING TREES 
- TREES TO BE CUT 



EXISTING DISPOSAL (PROPOSED PARKING SHED)

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

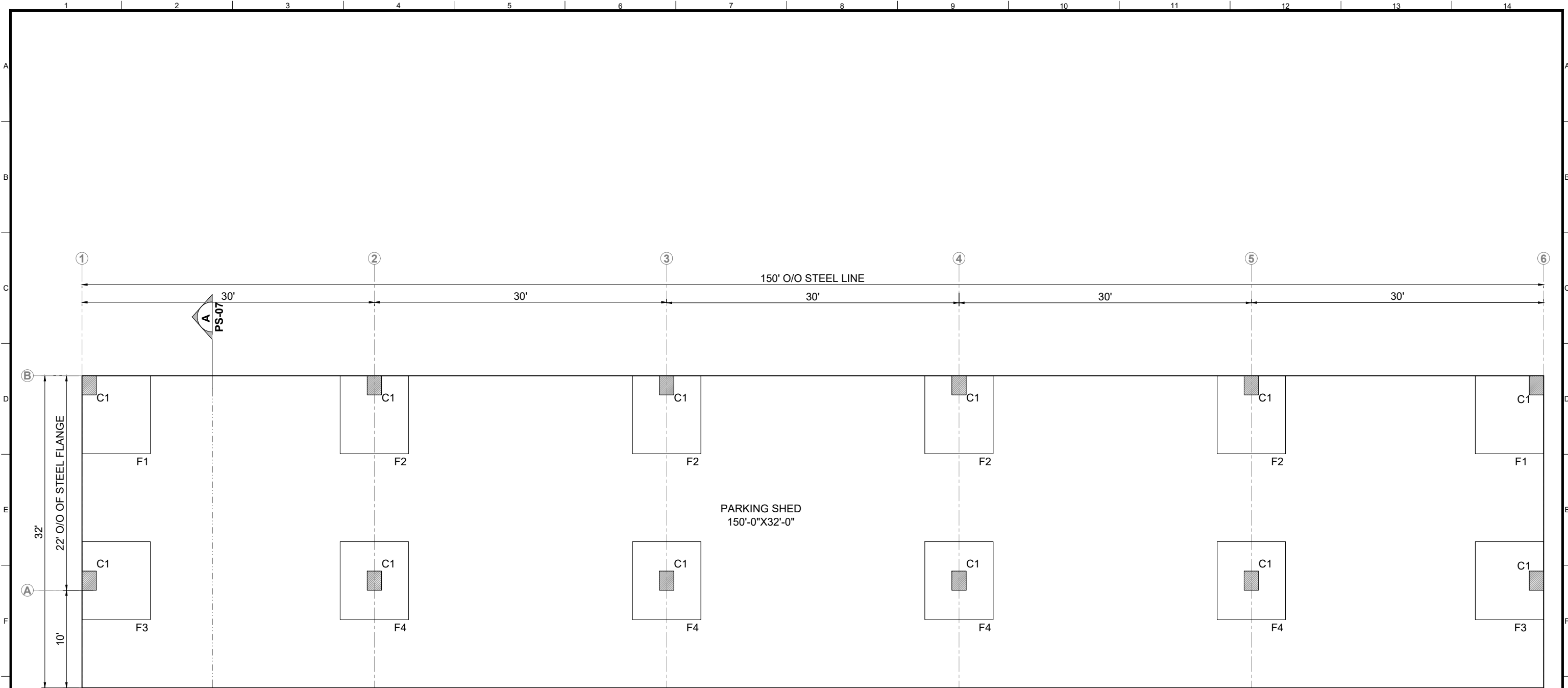
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 252

DRAWING TITLE:
**PROPOSED SWM PARKING SHED,
 SUPER IMPOSED ON EXISTING AREA
 (OKARA CITY)**



REV.	DATE	DESCRIPTION

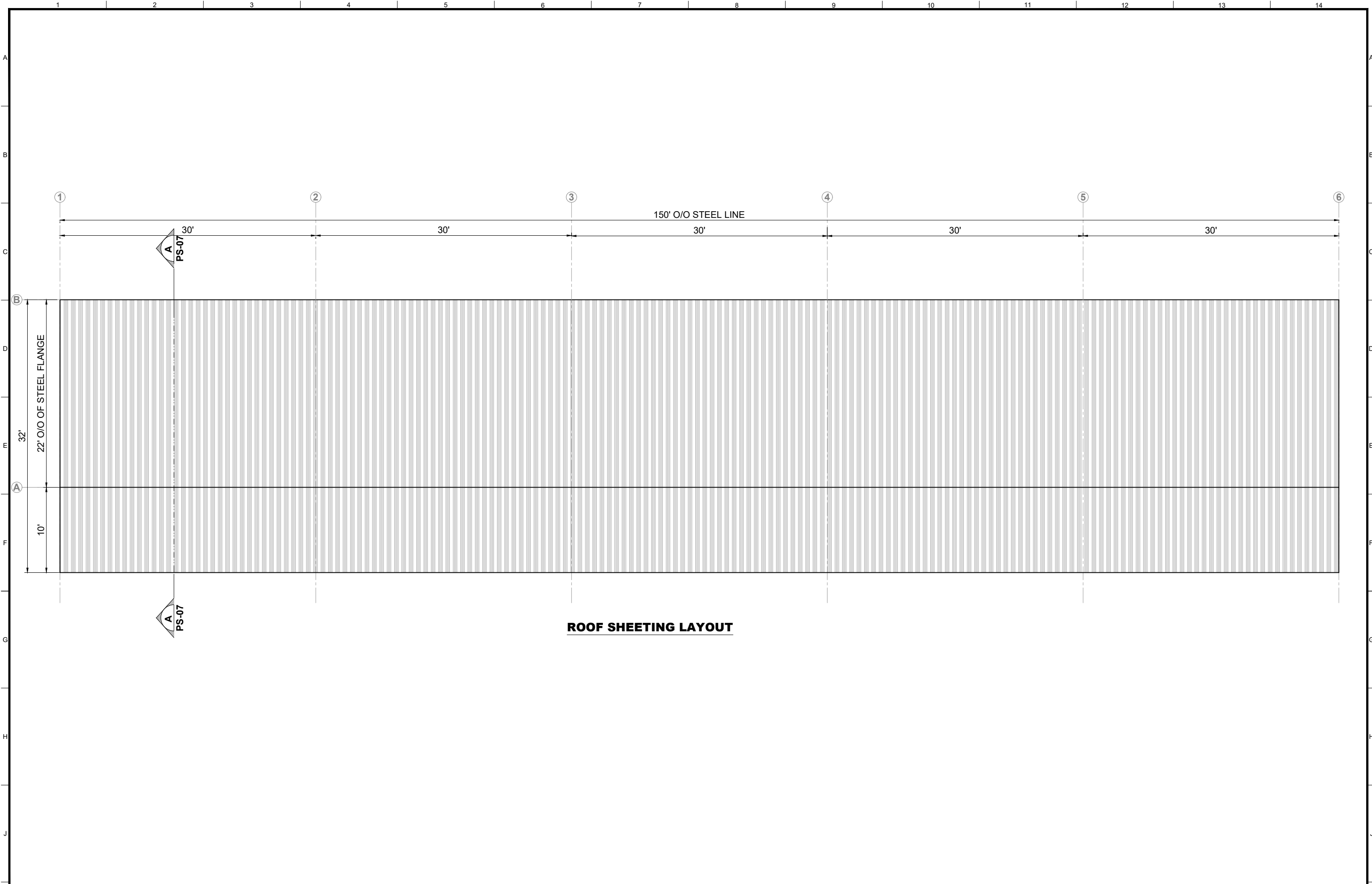
DRAWN BY: Asif	DRAWING NO: PS-04
CHECKED BY: Sadat Waleed	SCALE: UNIT=FEET
DATE: June,2022	SHEET: JOB NO: 488-01

PARKING SHED





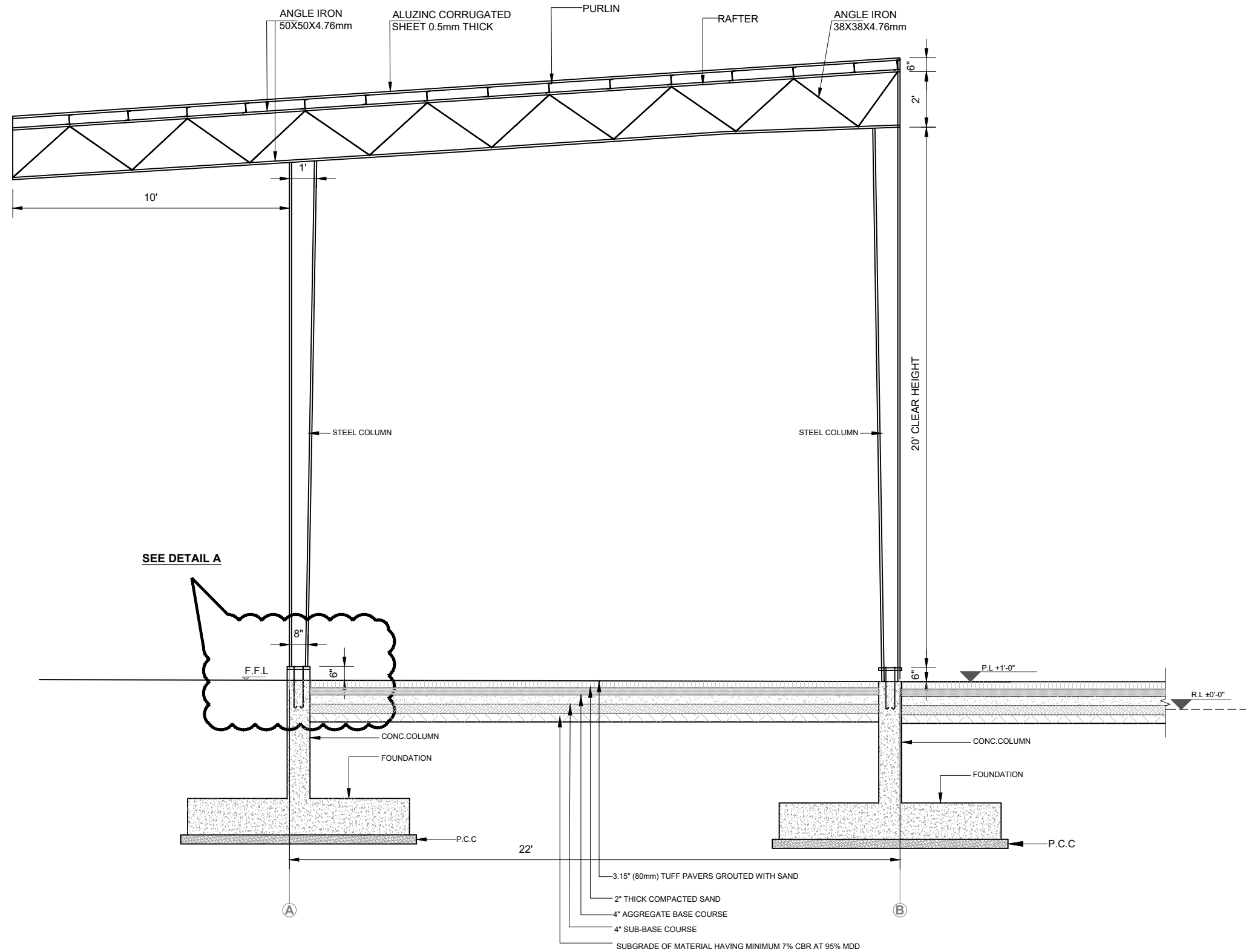
COLUMN & FOOTING LAYOUT PLAN

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. 254	DRAWING TITLE: GROUND FLOOR PLAN PARKING SHED-1 OKARA	REV. DATE DESCRIPTION	DRAWN BY: Munir	DRAWING NO: PS-05
				- - -	CHECKED BY: Sadat Waleed	SCALE: UNIT=FEET 1"=120'
				DATE: June, 2022		

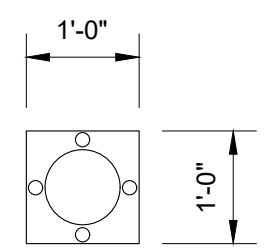
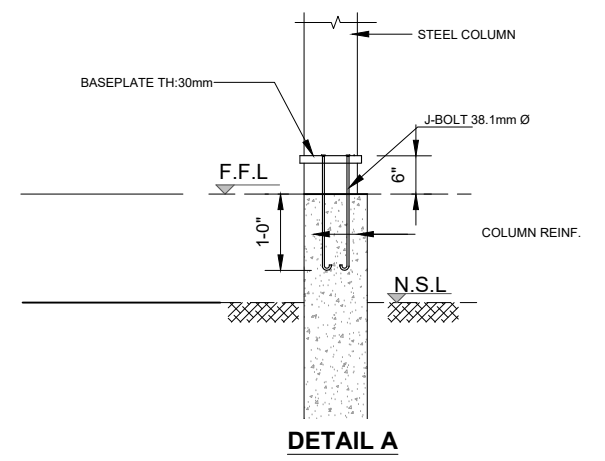


ROOF SHEETING LAYOUT

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. 255	DRAWING TITLE: ROOF LAYOUT PLAN PARKING SHED-1 OKARA	DRAWN BY: Munir	DRAWING NO: PS-06
				CHECKED BY: Sadat Waleed	
REV. DATE DESCRIPTION				DATE: June, 2022	JOB NO: 488-01



RIGID FRAME SECTIONAL ELEVATION A-A



BASEPLATE

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

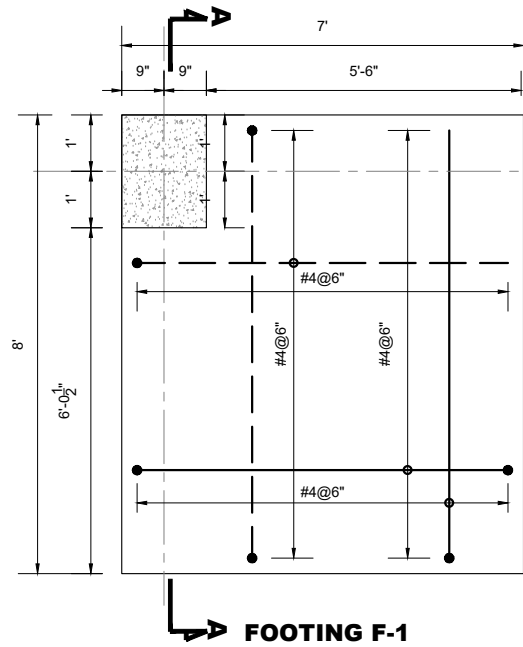
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 256

DRAWING TITLE:
**RIGID FRAME ELEVATION
 PARKING SHED-1
 OKARA**

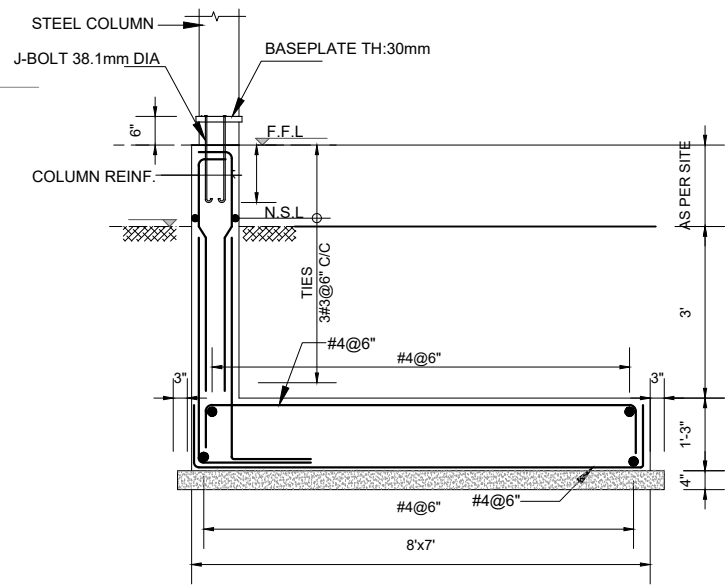
REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

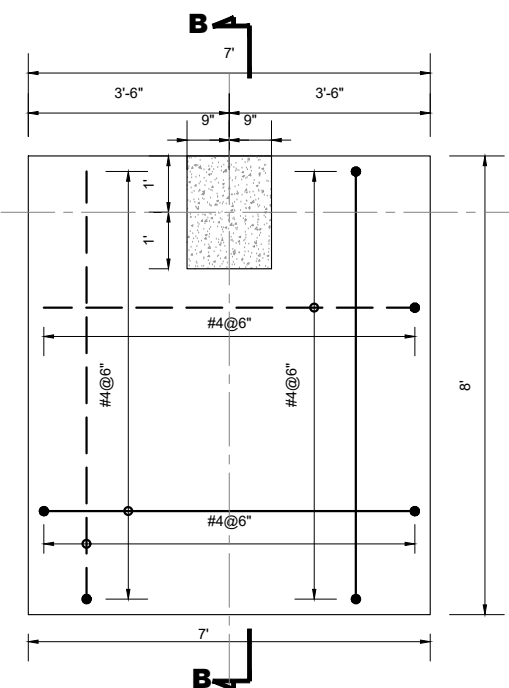
DRAWING NO:
PS-07
 SCALE:
UNIT=FEET
1"=50'
 SHEET:
1 OF 1
 JOB NO:
488-01



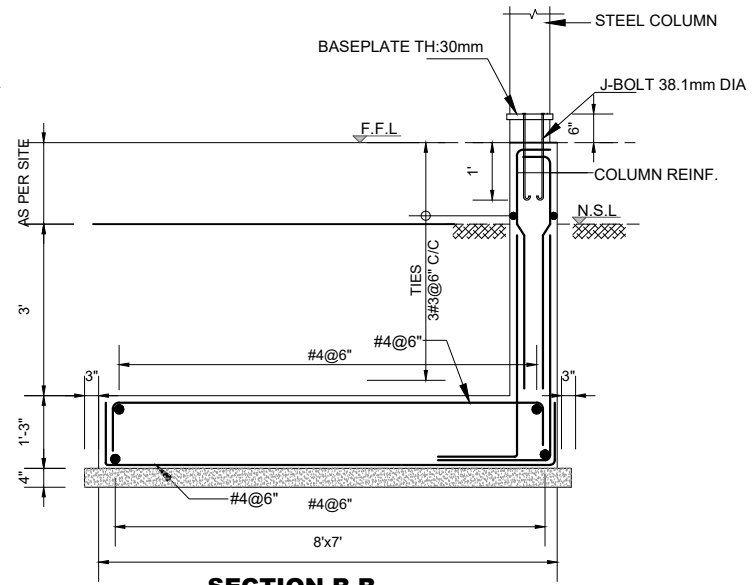
FOOTING F-1



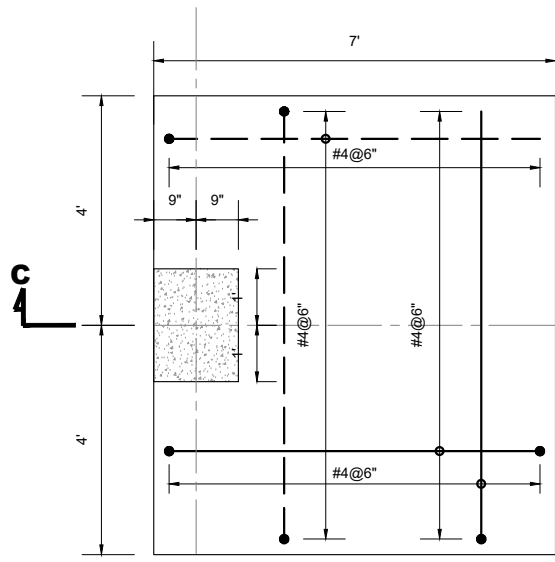
SECTION A-A



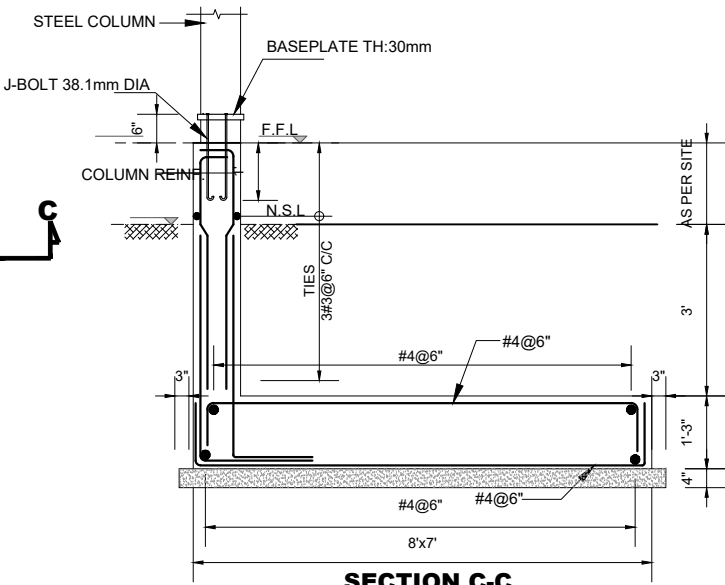
FOOTING F-2



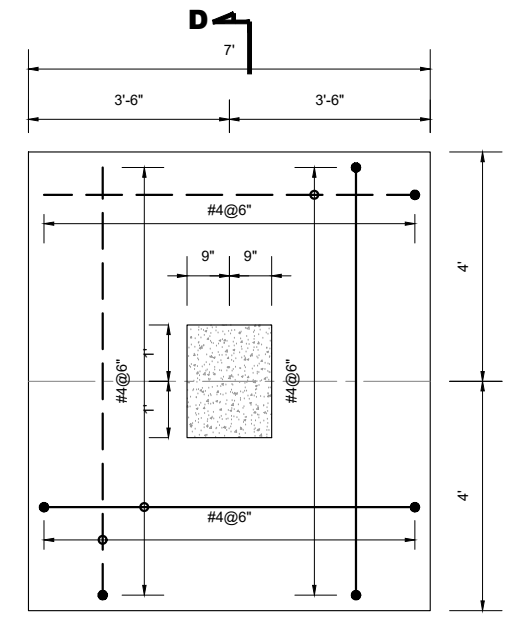
SECTION B-B



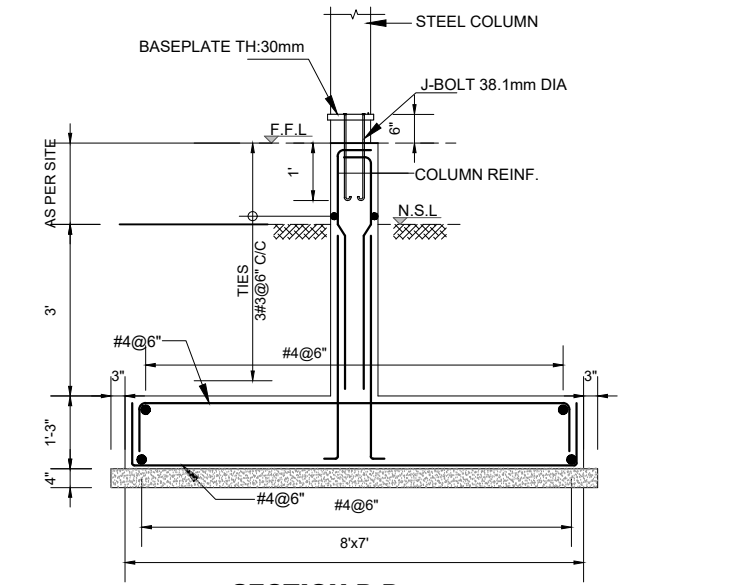
FOOTING F-3



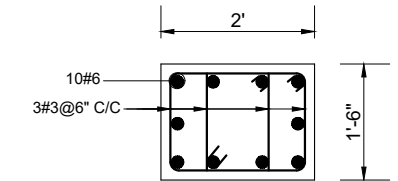
SECTION C-C



FOOTING F-4



SECTION D-D



TYPICAL COLUMN C-1

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

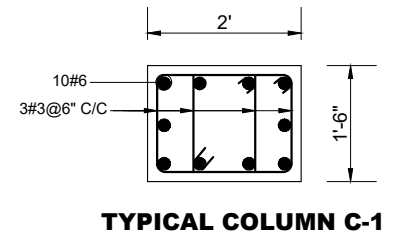
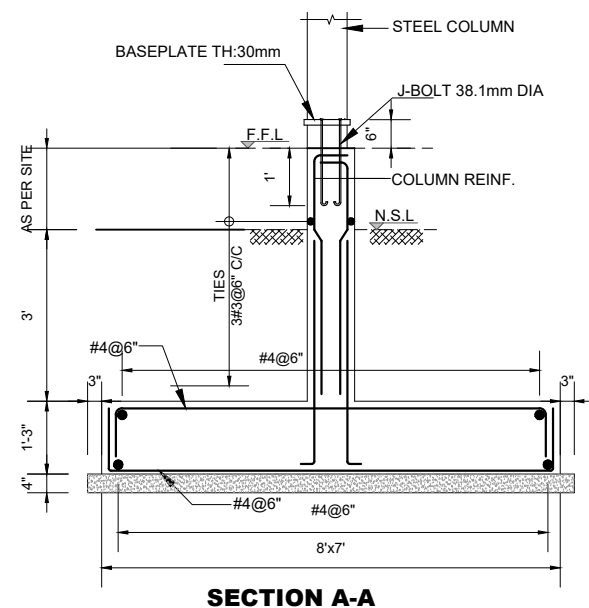
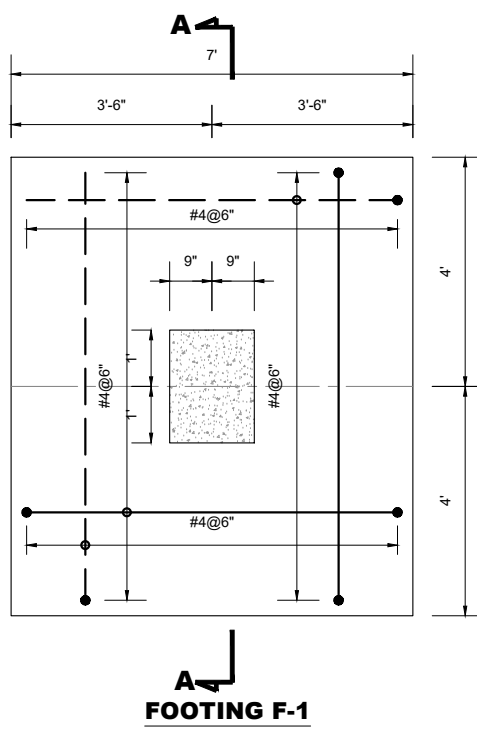
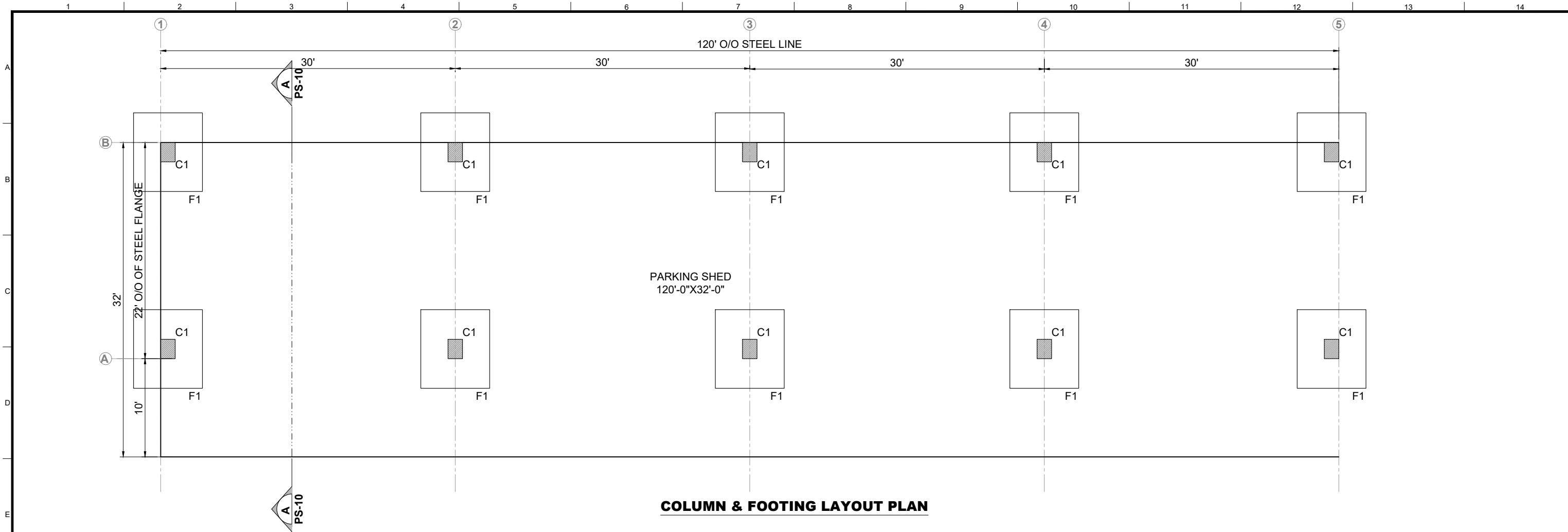
CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

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

DRAWING TITLE:
FOOTING DETAILS
PARKING SHED-1
OKARA

REV.	DATE	DESCRIPTION

DRAWN BY: Munir	DRAWING NO: PS-07-A
CHECKED BY: Sadat Waleed	
DATE: June, 2022	SCALE: 1"=40'
	SHEET: 1 OF 1
	JOB NO: 488-01



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

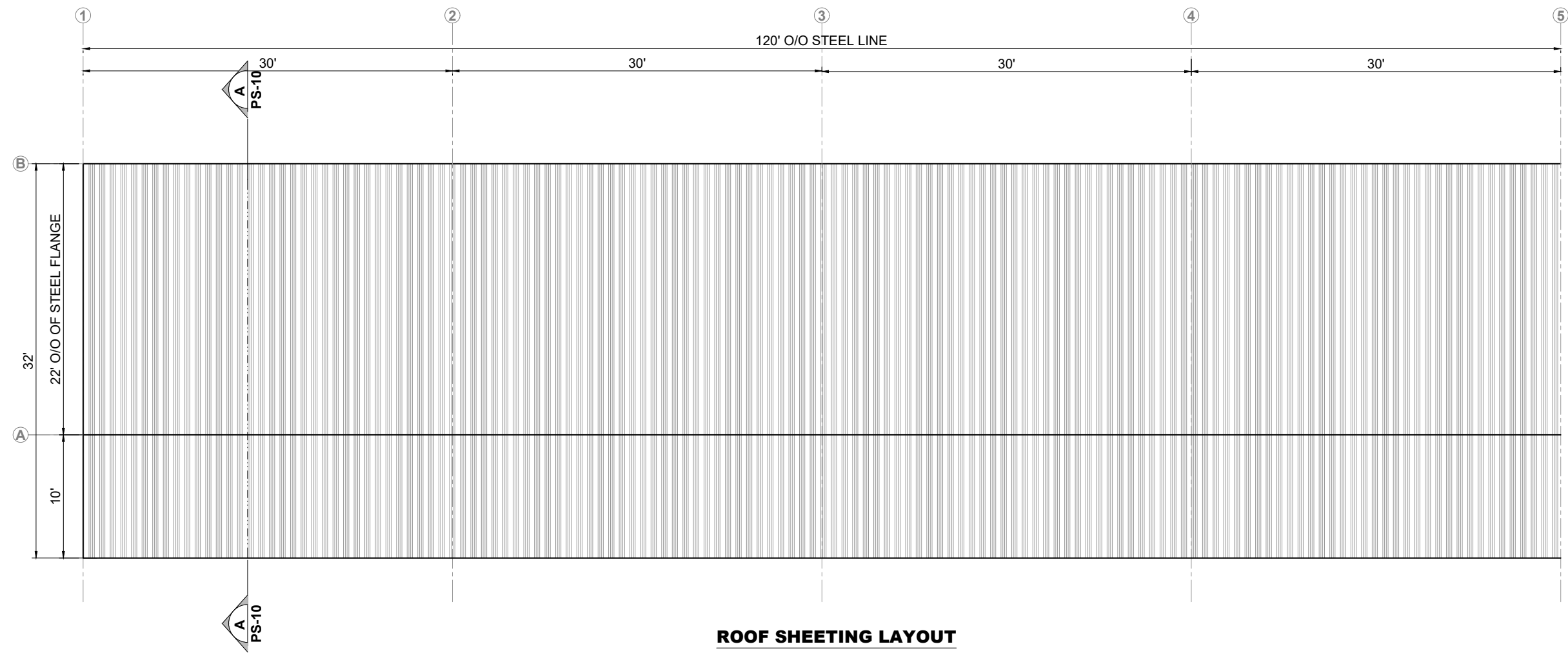
CONSULTANTS:
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 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

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

DRAWING TITLE:
**GROUND FLOOR PLAN
 PARKING SHED-2
 OKARA**

REV.	DATE	DESCRIPTION

DRAWN BY: Munir	DRAWING NO: PS-08
CHECKED BY: Sadat Waleed	
DATE: June, 2022	SCALE: 1"=120'
	SHEET: 1 OF 1
	JOB NO: 488-01



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

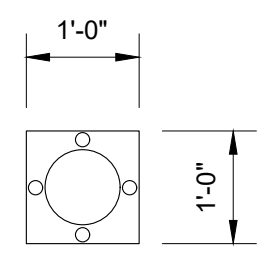
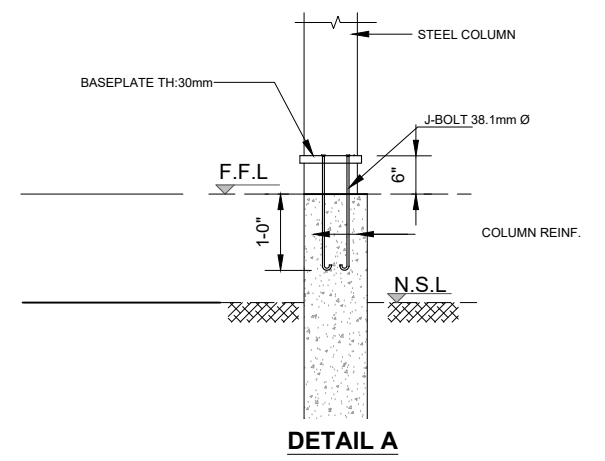
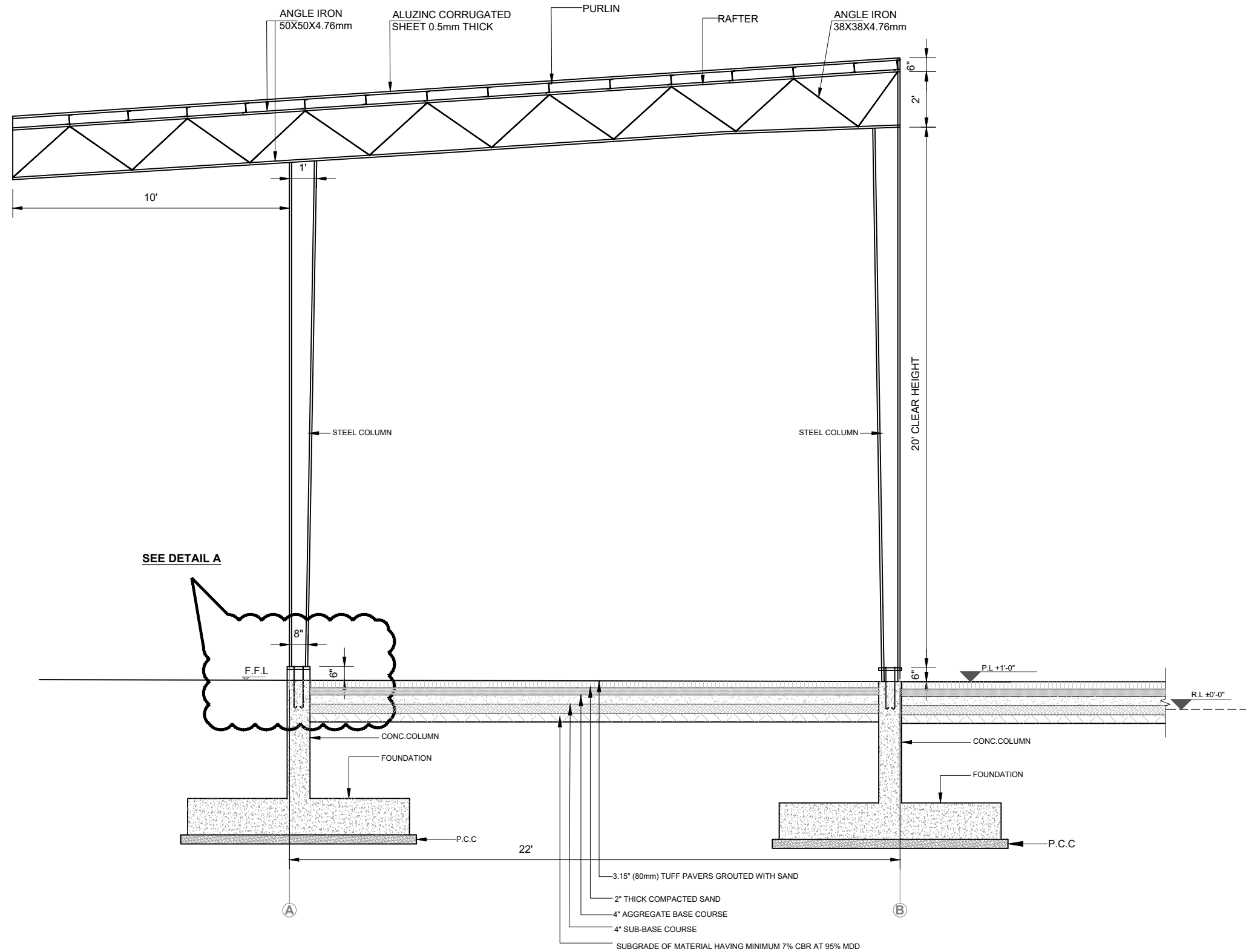
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 259

DRAWING TITLE:
**ROOF LAYOUT PLAN
 PARKING SHED-2
 OKARA**

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

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

DRAWING NO:
PS-09
 SCALE:
UNIT=FEET
1"=120'
 SHEET:
1 OF 1
 JOB NO:
488-01



RIGID FRAME SECTIONAL ELEVATION A-A

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

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
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 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

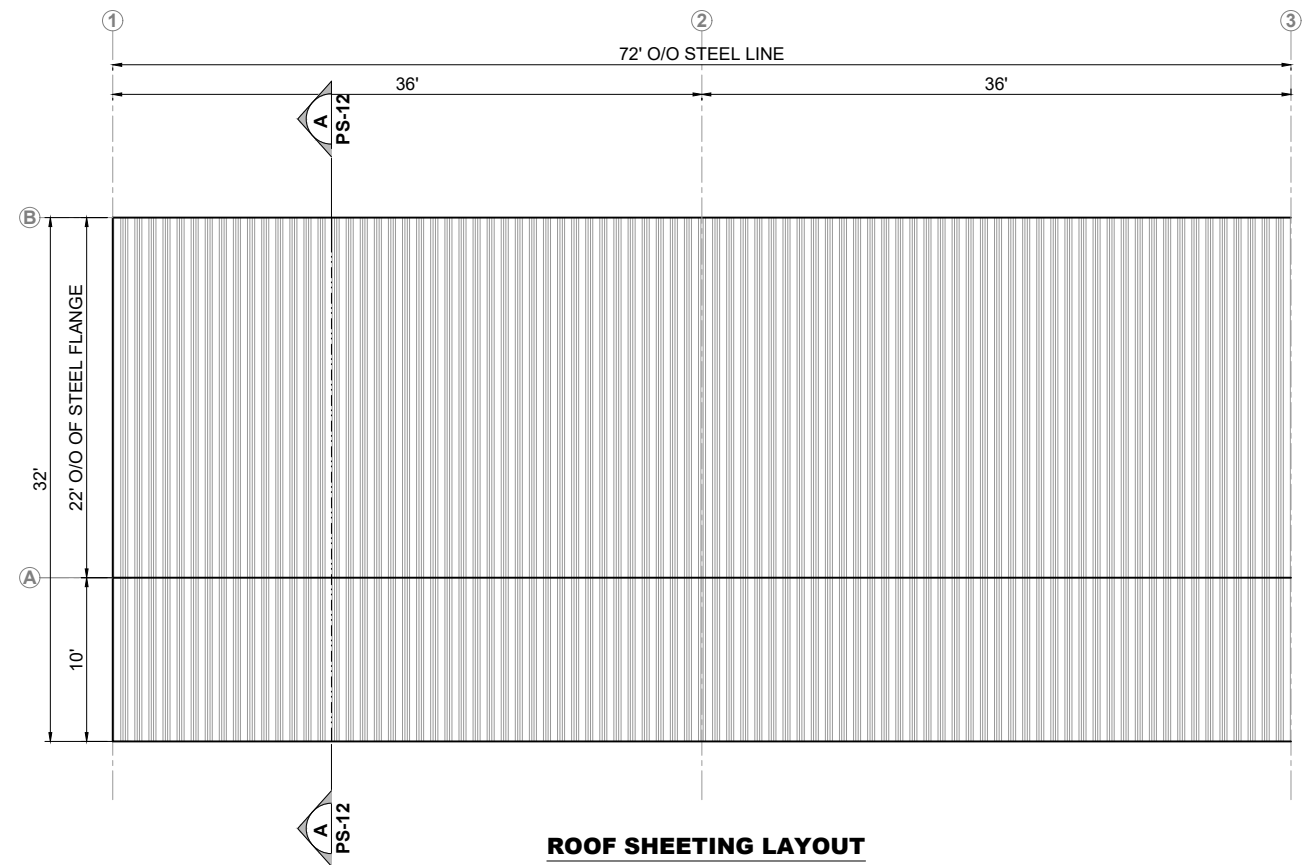
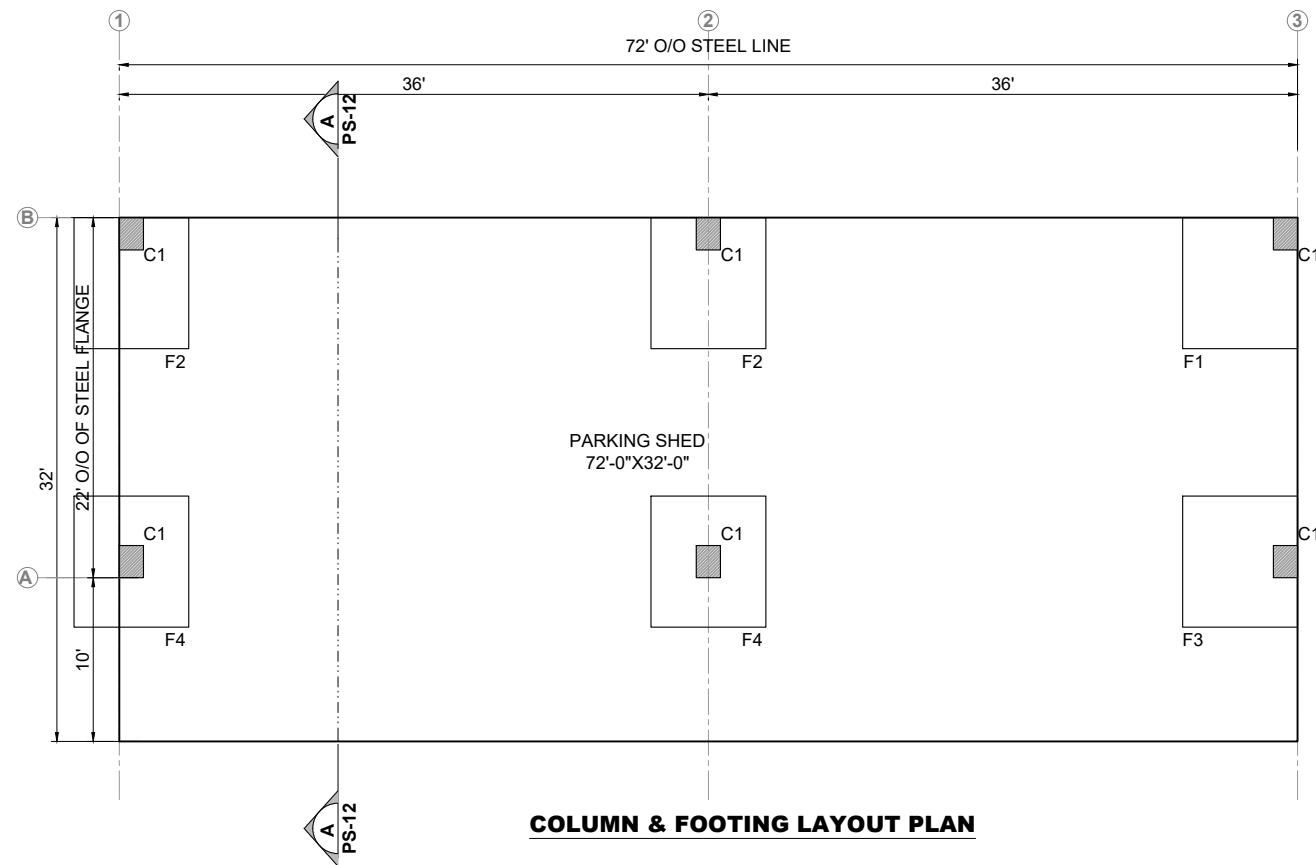
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 260

DRAWING TITLE:
**RIGID FRAME ELEVATION
 PARKING SHED-2
 OKARA**

REV.	DATE	DESCRIPTION

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

DRAWING NO:
PS-10
 SCALE:
UNIT=FEET
1"=50'
 SHEET:
1 OF 1
 JOB NO:
488-01



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

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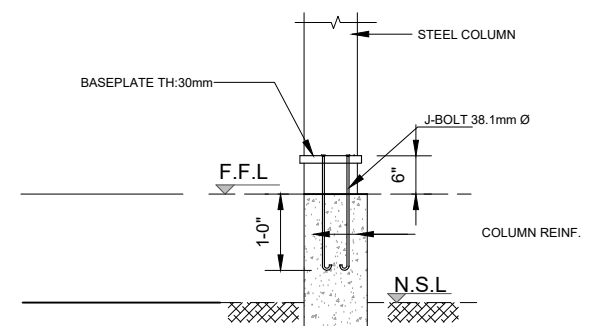
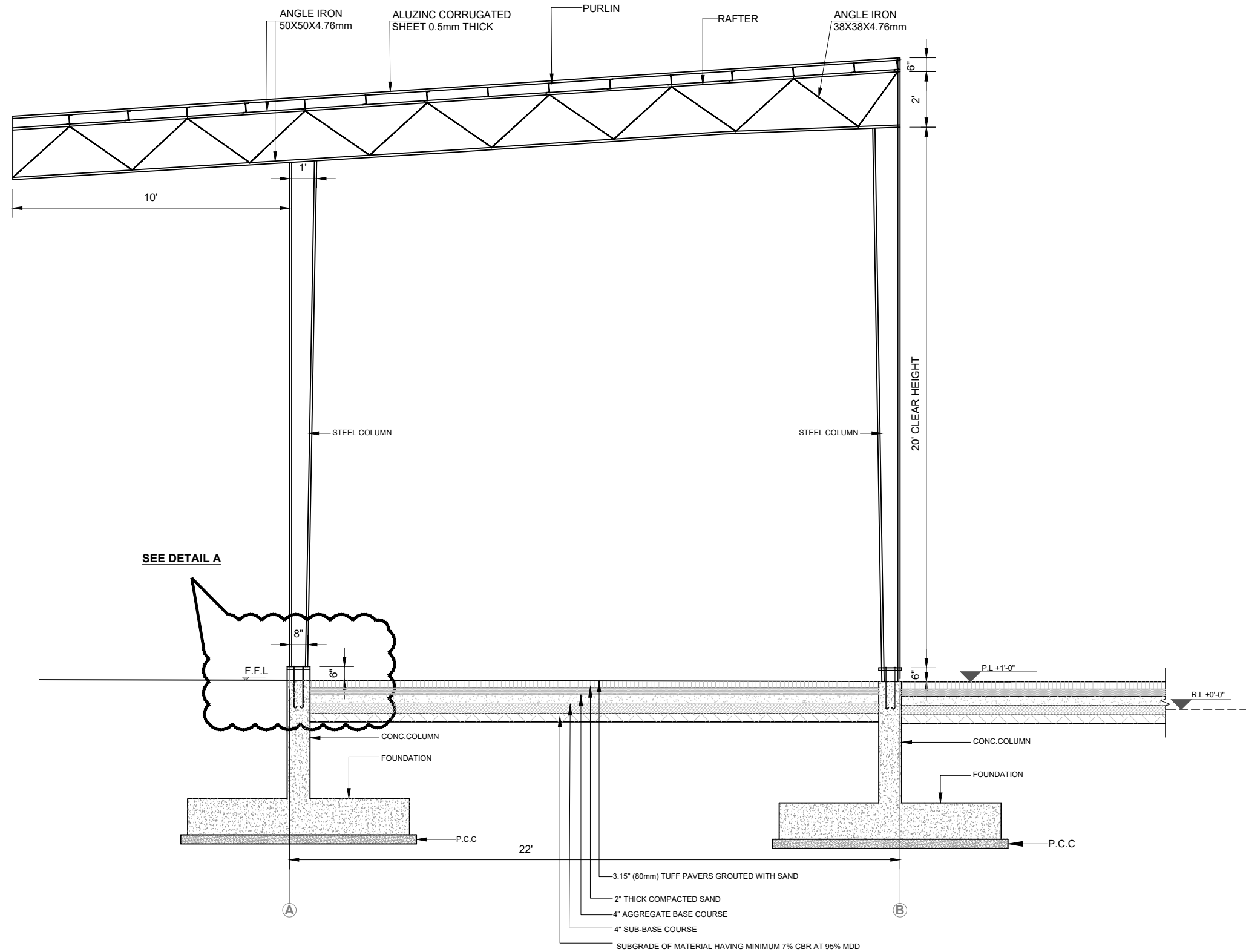
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 261

DRAWING TITLE:
GROUND FLOOR & ROOF PLAN
PARKING SHED-3 & 4
OKARA

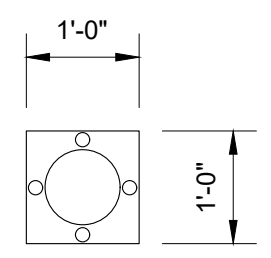
REV.	DATE	DESCRIPTION
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DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

DRAWING NO:
PS-11
 SCALE:
UNIT=FEET
1"=120'
 SHEET:
1 OF 1
 JOB NO:
488-01



DETAIL A



BASEPLATE

RIGID FRAME SECTIONAL ELEVATION A-A

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:
**RIGID FRAME ELEVATION
 PARKING SHED-3 & 4
 OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
Munir

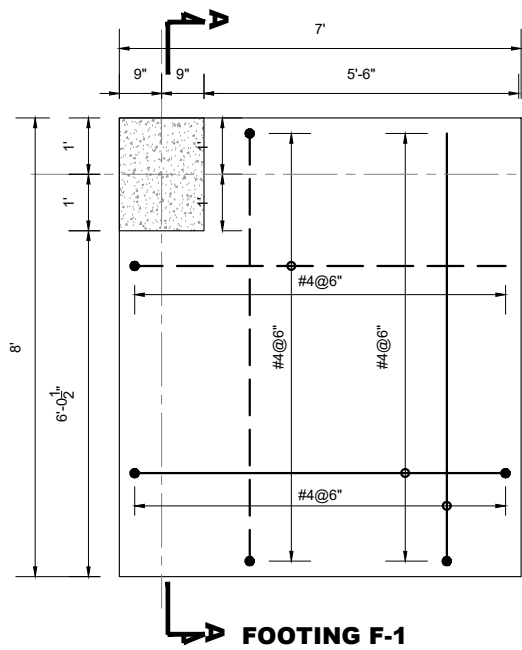
CHECKED BY:
Sadat Waleed

DATE:
June, 2022

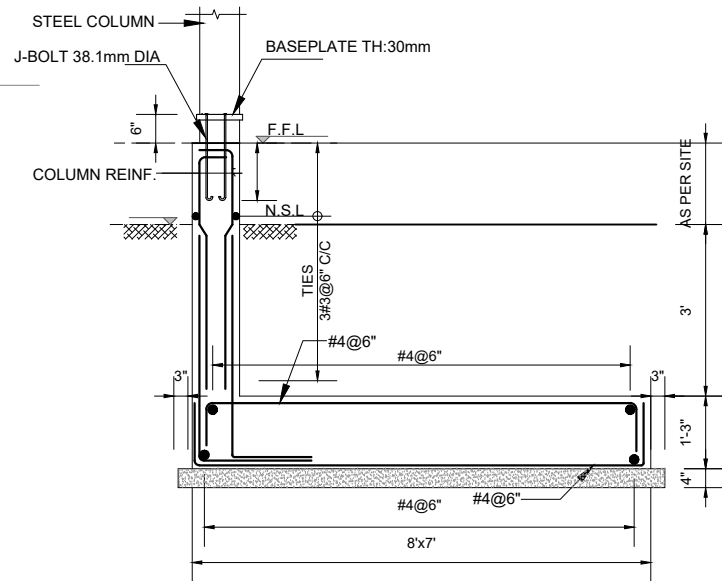
DRAWING NO:
PS-12

SCALE:
UNIT=FEET
1"=50'

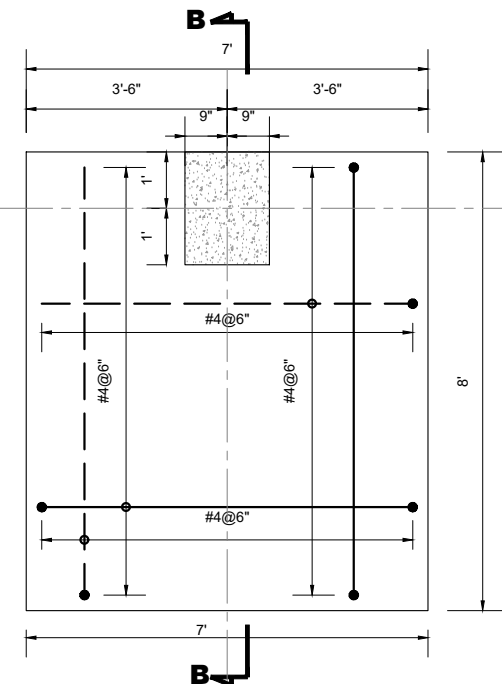
SHEET:
1 OF 1
JOB NO:
488-01



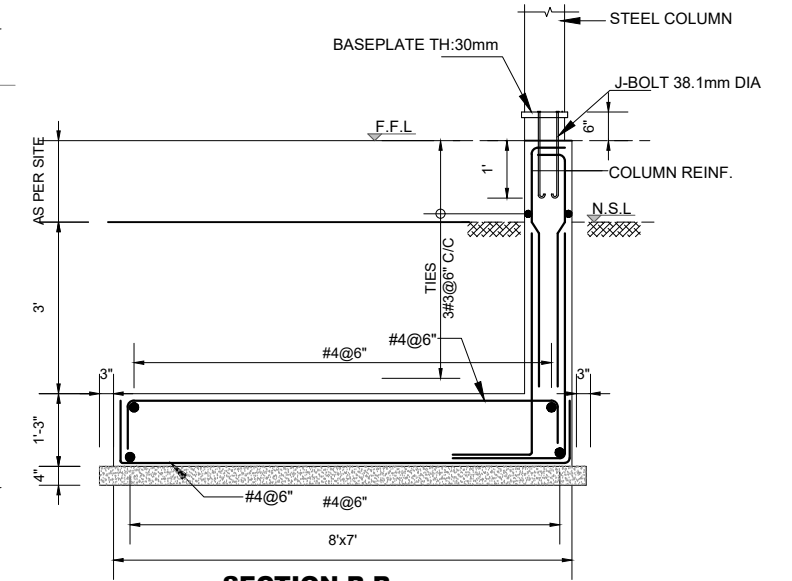
FOOTING F-1



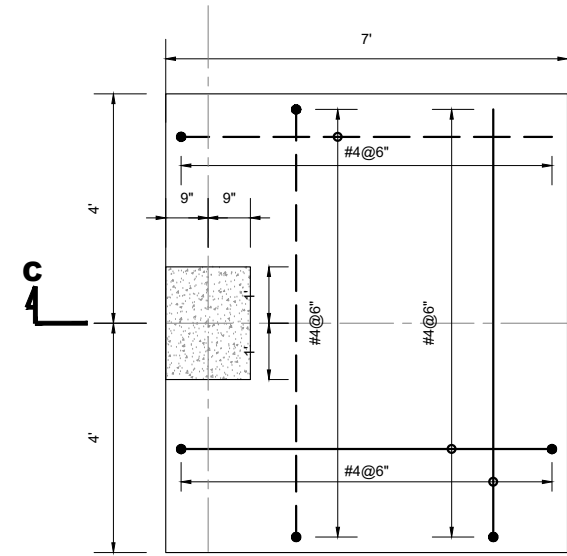
SECTION A-A



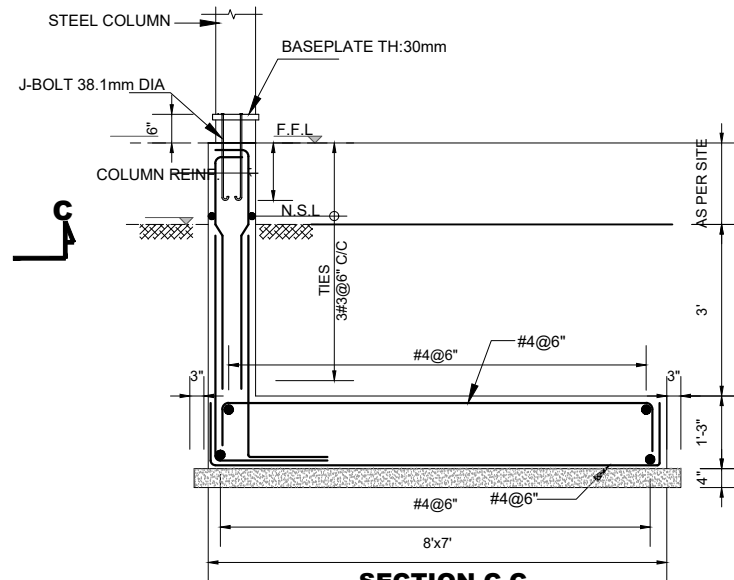
FOOTING F-2



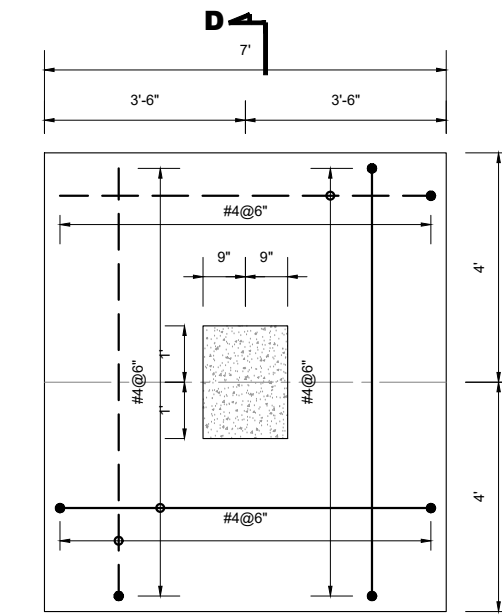
SECTION B-B



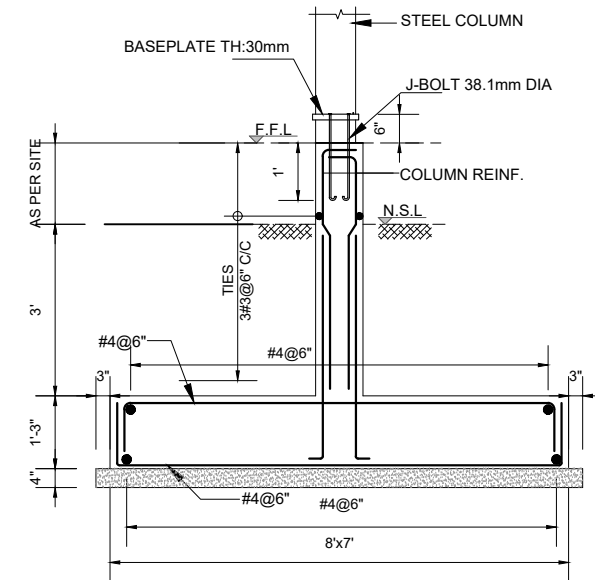
FOOTING F-3



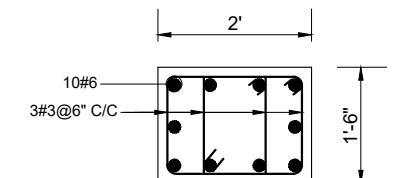
SECTION C-C



FOOTING F-4



SECTION D-D



TYPICAL COLUMN C-1

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

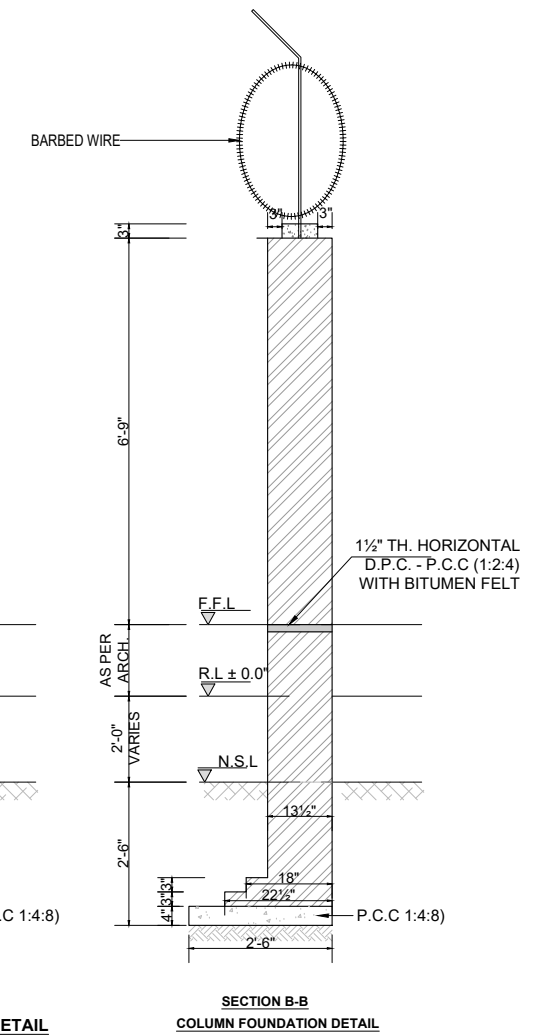
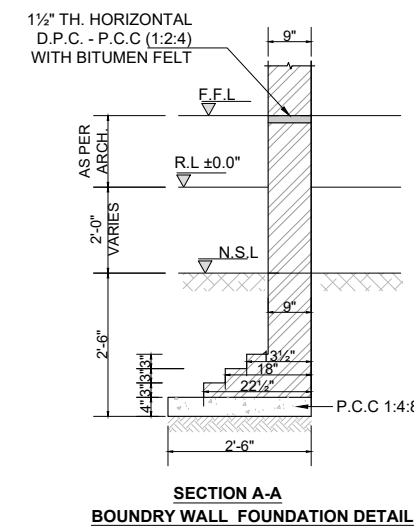
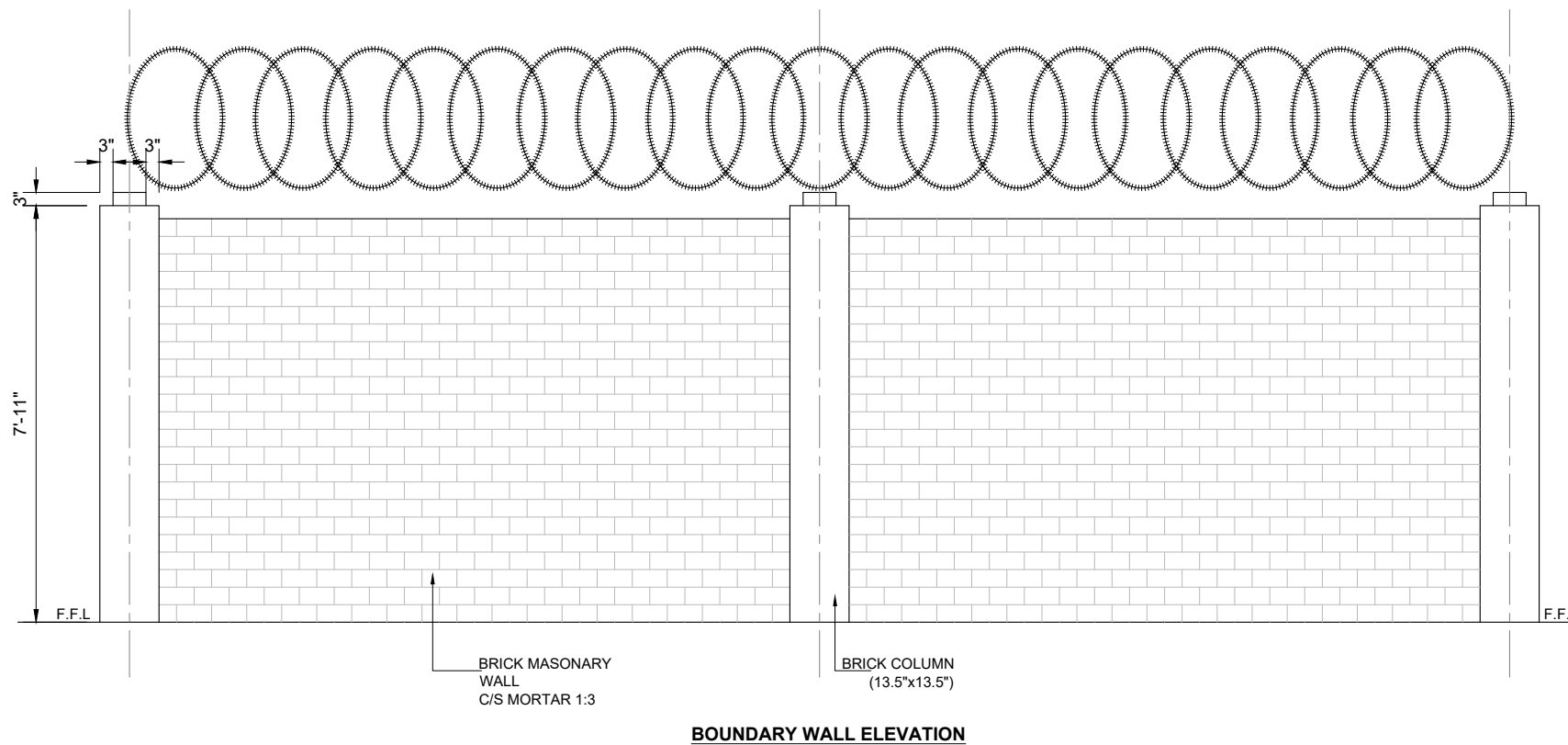
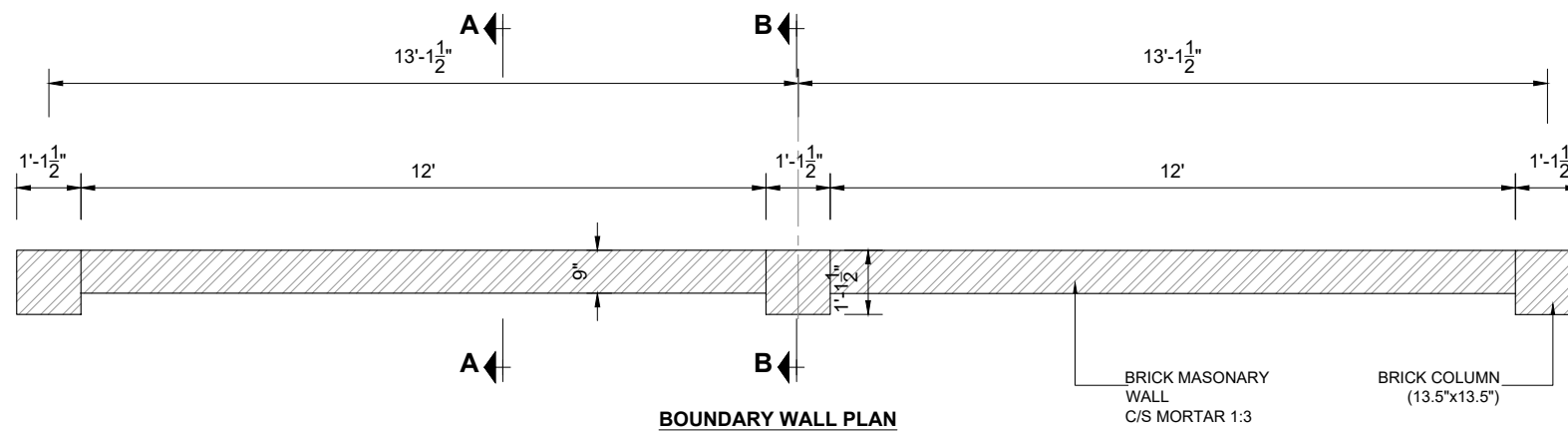
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 263

DRAWING TITLE:
**FOOTING DETAILS
 PARKING SHED-3 & 4
 OKARA**

REV.	DATE	DESCRIPTION

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

DRAWING NO:
PS-12-A
 SCALE:
UNIT=FEET
1"=40'
 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. 265**

DRAWING TITLE:

**BOUNDARY WALL DETAIL
(OKARA)**

REV.	DATE	DESCRIPTION

DRAWN BY:
Munir

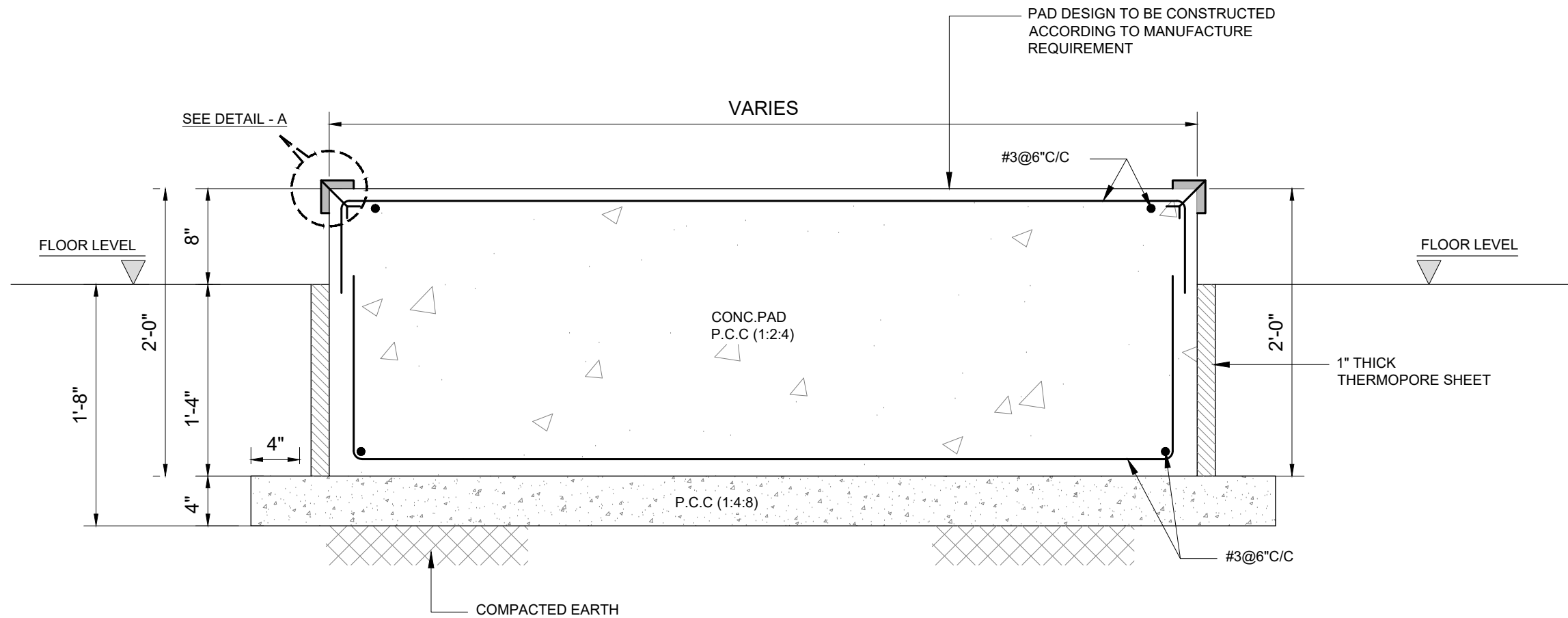
CHECKED BY:
Sadat Waleed

DATE:
June, 2022

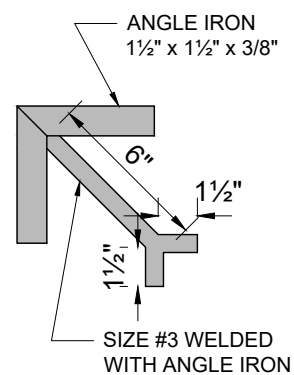
DRAWING NO:
PS-14

SCALE:
UNIT=FEET
1"=40'

SHEET:
1 OF 1
JOB NO:
488-01



**TYP. DETAIL OF PAD FOUNDATION
FOR GENERATOR**



DETAIL - A

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. 266

DRAWING TITLE:
**GENERATOR PAD
FOUNDATION DETAIL
OKARA**

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

DRAWN BY:
Munir

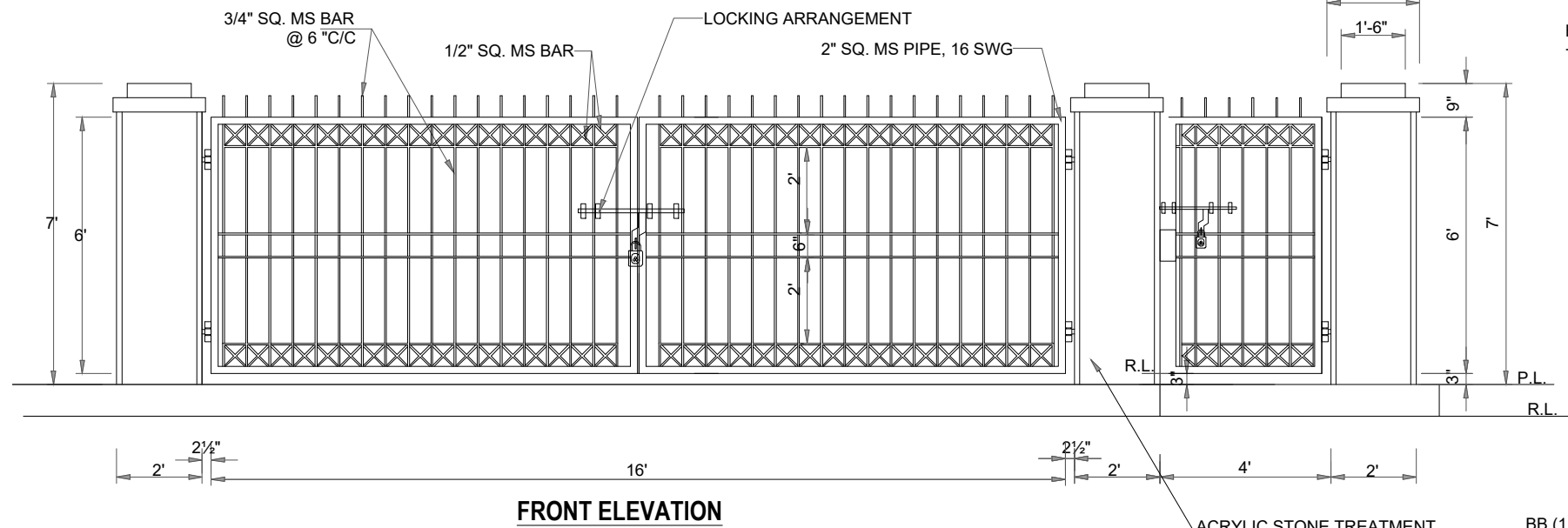
CHECKED BY:
Sadat Waleed

DATE:
June, 2022

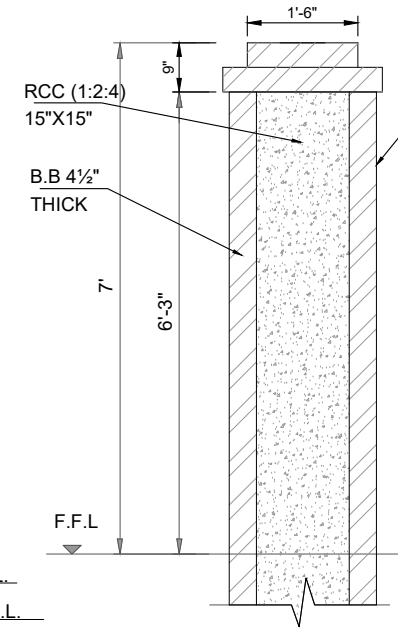
DRAWING NO:
PS-15

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

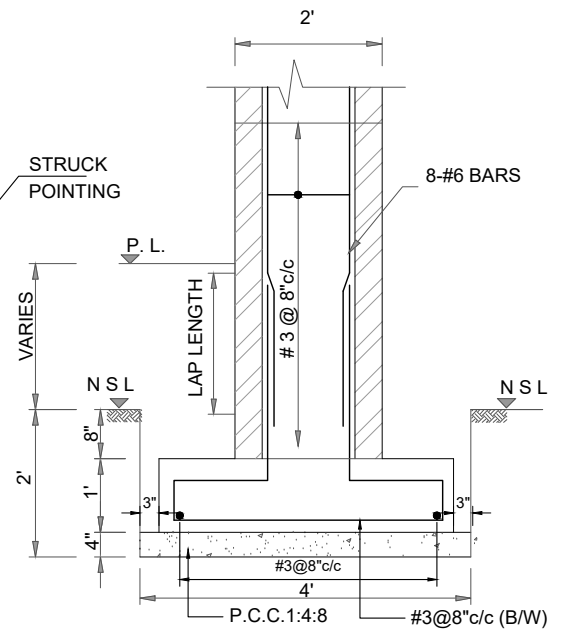
SHEET:
1 OF 1
JOB NO:
488-01



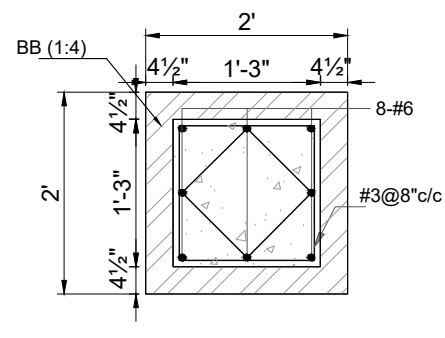
FRONT ELEVATION



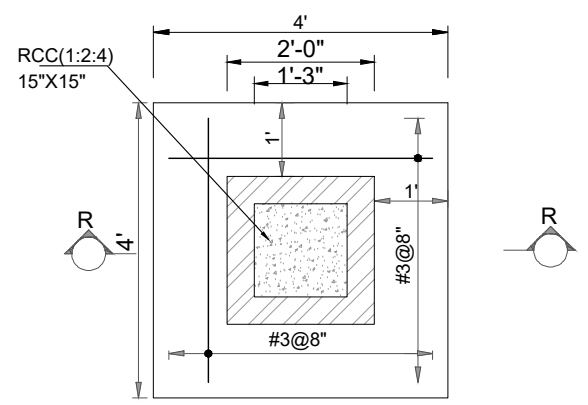
SECTION Q-Q



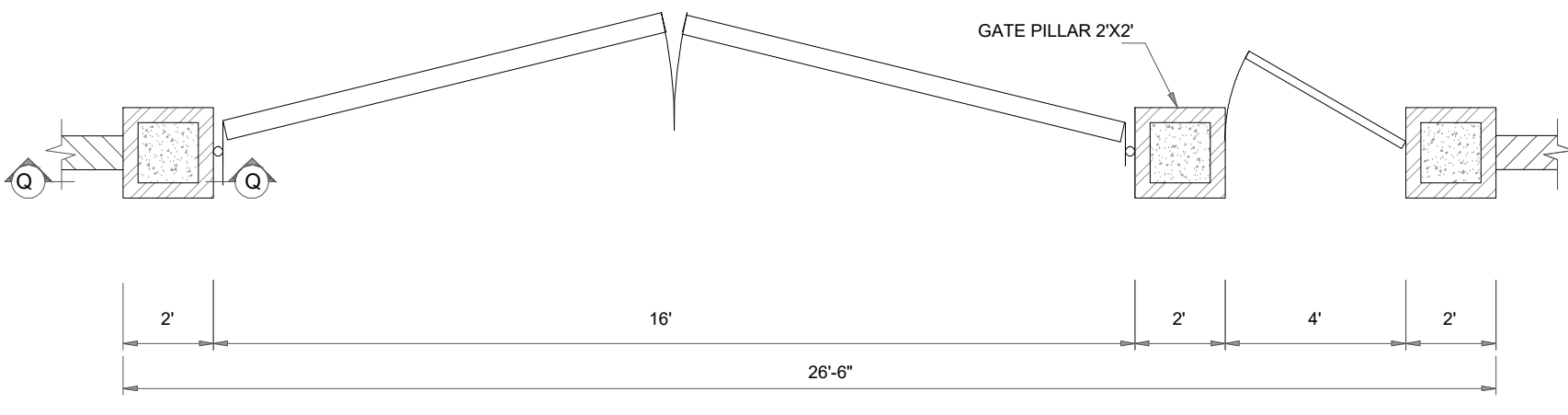
SECTION R-R



COLUMN PLAN




COLUMN FOOTING



PLAN

NOTES

1. FOUNDATION HAS BEEN DESIGNED WITH A BEARING CAPACITY OF 0.75 TON/SFT. AT A DEPTH OF 3 FEET FROM N.S.L.
2. USE CONCRETE HAVING MINIMUM CUBE STRENGTH OF 3,000 PSI (NOMINAL MIX 1:2:4) FOR ALL CONCRETE WORKS.
3. USE DEFORMED STEEL HAVING MINIMUM YIELD STRENGTH OF 60,000 PSI.
4. ALL STEEL STRUCTURAL SURFACES TO BE TREATED WITH ONE COAT OF PRIMER (RED OXIDE) AND TWO COATS OF ENAMEL PAINT OF APPROVED BRAND & SPECIFICATIONS. THE COST OF PAINTING SHOULD BE INCLUDED IN CONTRACTOR'S APPROVED/BID RATE.
5. HORIZONTAL DPC IS OF CEMENT CONCRETE (1:2:4), 2" THICK WITH ONE COAT OF BITUMEN AND A LAYER OF POLYTHENE SHEET OF 500 GAUGE.

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. 267

DRAWING TITLE:
PROPOSED ENTERANCE GATE (OKARA CITY)

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
Asif

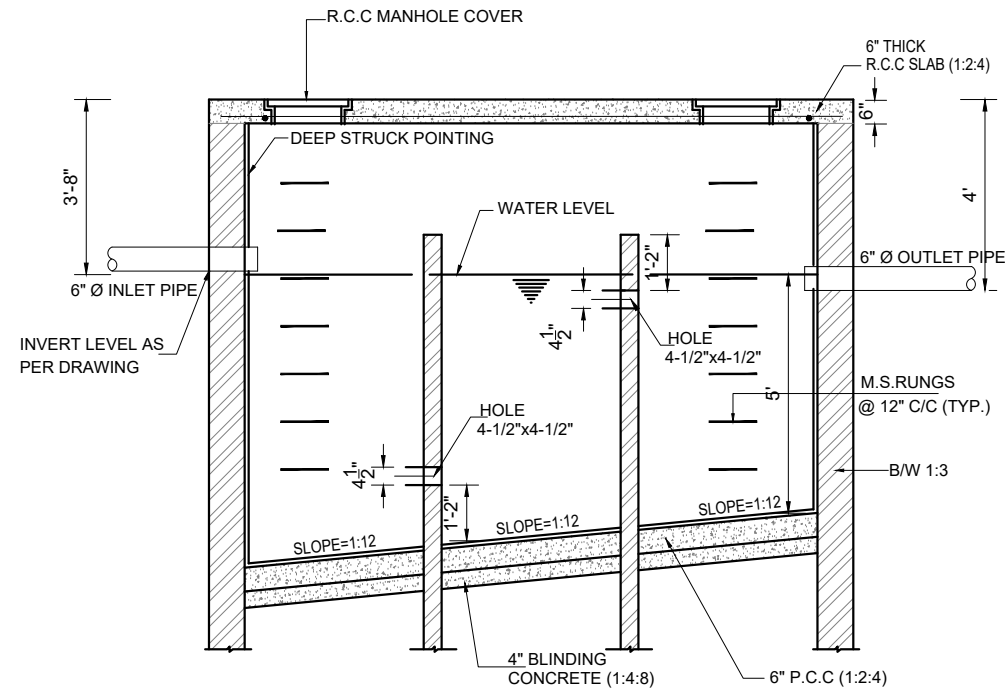
CHECKED BY:
Sadat Waleed

DATE:
June, 2022

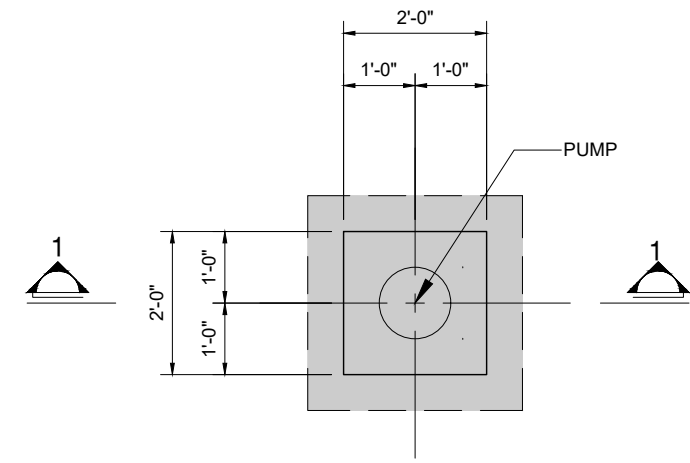
DRAWING NO:
PS-16

SCALE:
UNIT=FEET

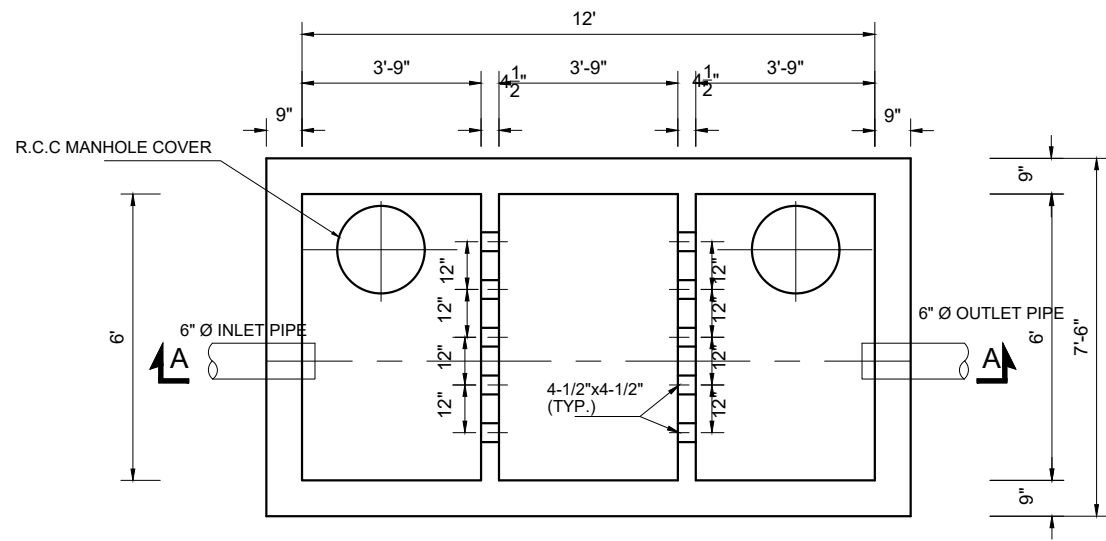
SHEET:
JOB NO:
488-01



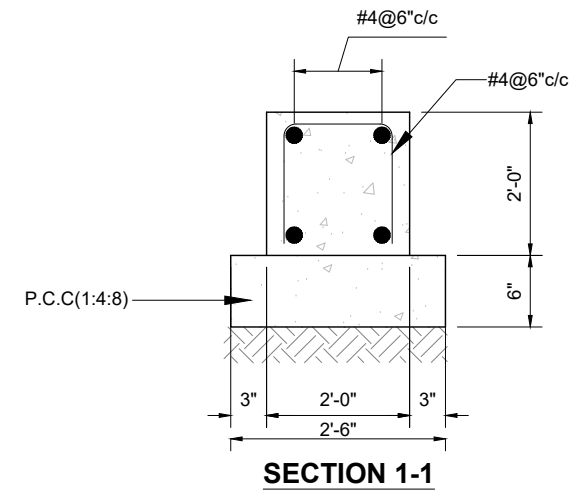
SECTION A-A



PUMP FOUNDATION PLAN



**SEPTIC TANK PLAN
12-0" x 6-0"**



SECTION 1-1

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. 269

DRAWING TITLE:
PUMP PAD FOUNDATION & SEPTIC TANK DETAIL OKARA

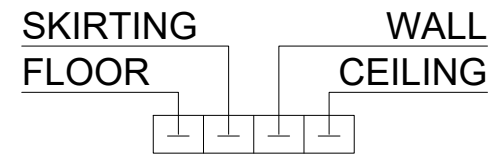
REV.	DATE	DESCRIPTION

DRAWN BY: Munir	DRAWING NO: PS-18
CHECKED BY: Sadat Waleed	
DATE: June, 2022	SCALE: 1/4"=1'-0"
	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 CERAMIC TILES OF APPROVED SIZE PATTERN AND COLOR
7'-0" HIGH WITH VENILE EMULSION PAINT TILL CEILING.
(MATT FINISH ON FLOOR & GLAZED ON WALL)
- ③ PORCELAIN SLABS FOR TREADS & RISER OF APPROVED COLOR & PATTERN
- ④ DISTAMPER ON C.S PLASTER (APPROVED MAKE & SHADE)
- ⑤ DISTAMPER PAINT
- ⑥ P.C.C TUFF PAVERS 80mm THICK HAVING 7000 PSI GRADING STRENGTH OVER 2" THICK SAND
- ⑦ 4" HIGH PORCELAIN TILES SKIRTING

SCHEDULE OF EXTERNAL FINISHES

- ⑧ DEEP STRUCK POINTING
- ⑨ 9"X4½"X1½" TH. TILES

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. 271

DRAWING TITLE:

**LEGEND & NOTES
PROPOSED STORE
OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

Munir

CHECKED BY:

Sadat Waleed

DATE:

June, 2022

DRAWING NO:

A-01

SCALE:

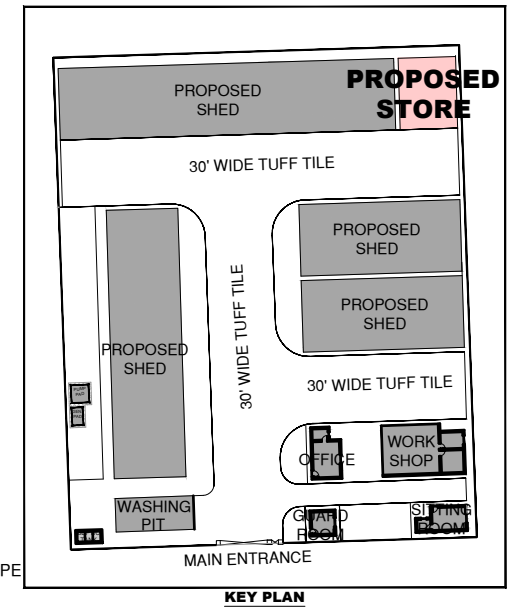
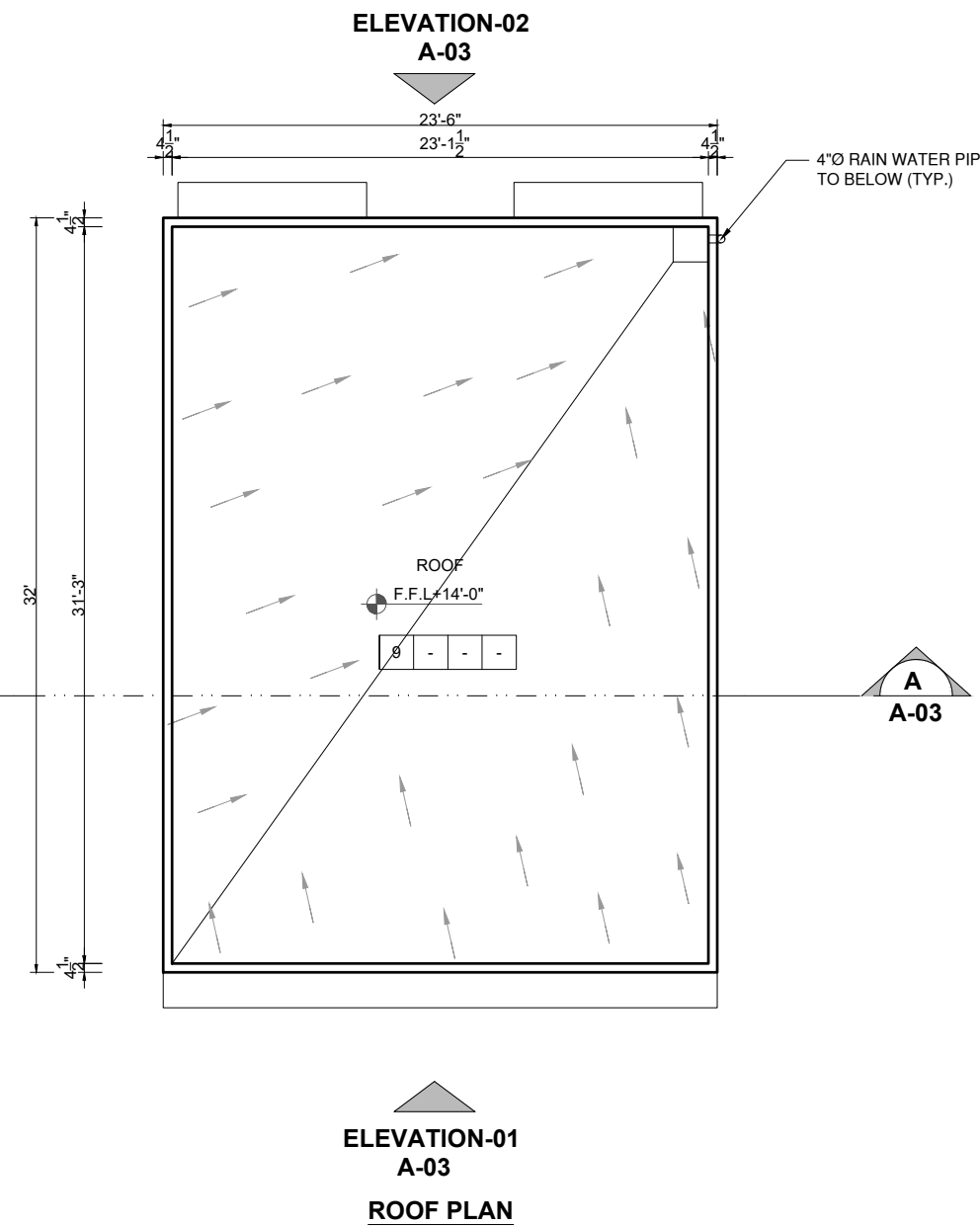
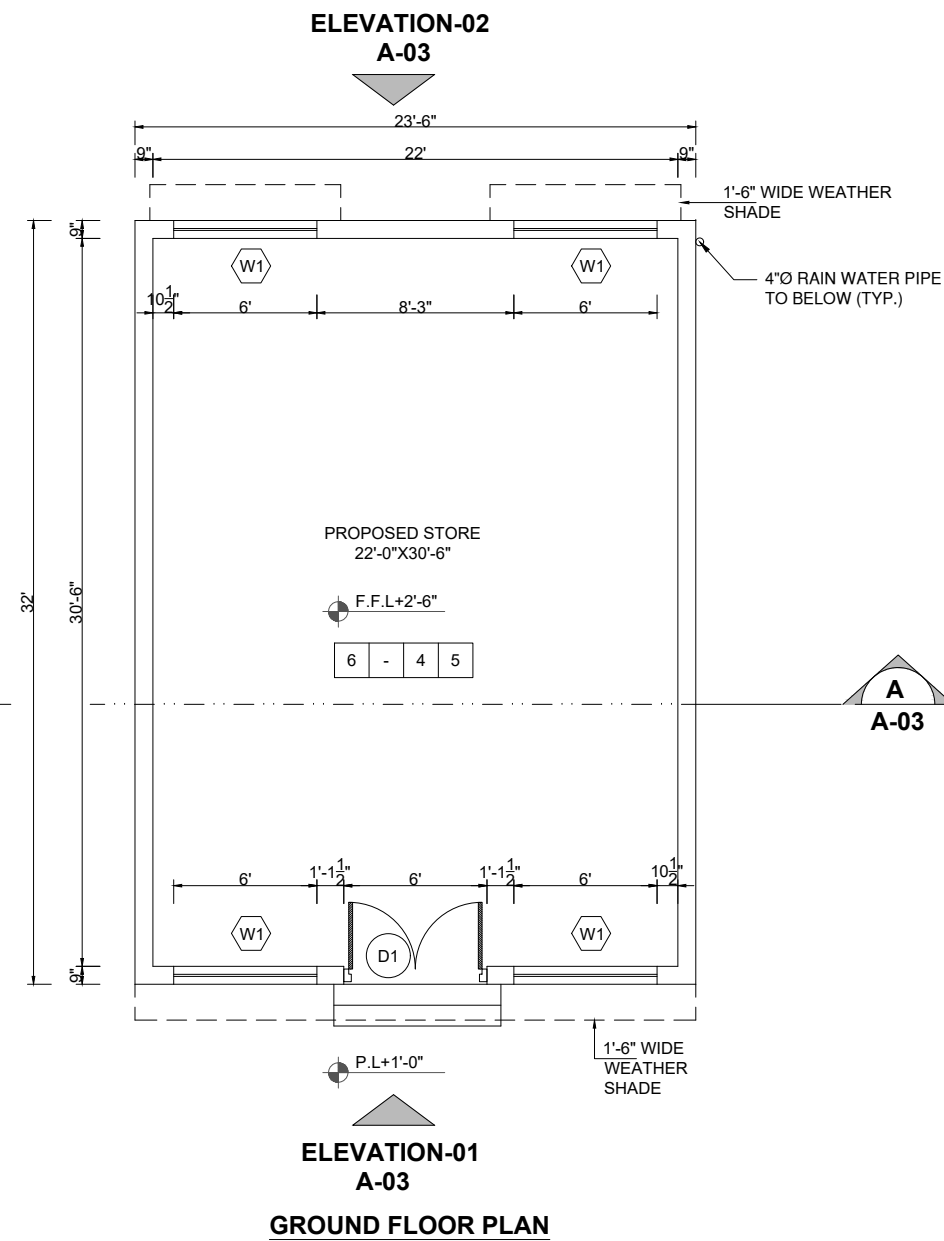
UNIT=FEET
NTS

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)
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PROJECT:

**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 272**

DRAWING TITLE:

**GROUND FLOOR & ROOF PLAN
PROPOSED STORE
OKARA**

REV.	DATE	DESCRIPTION

DRAWN BY:
Munir

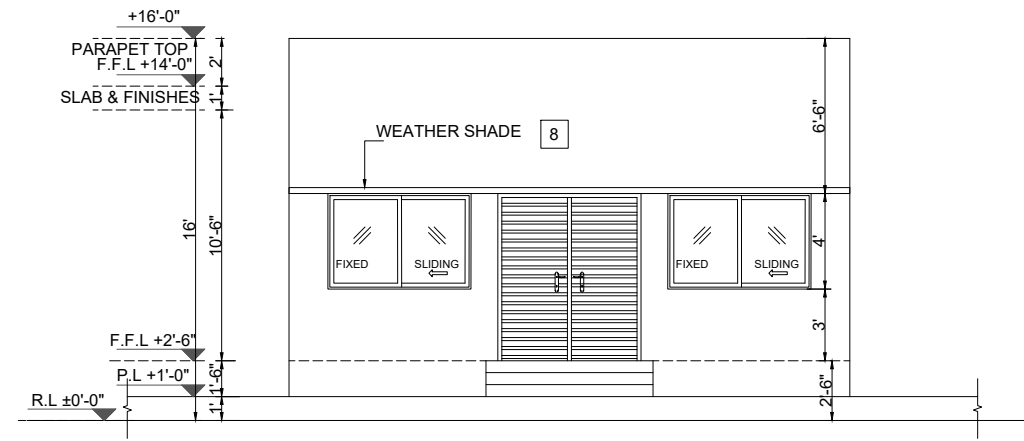
CHECKED BY:
Sadat Waleed

DATE:
June, 2022

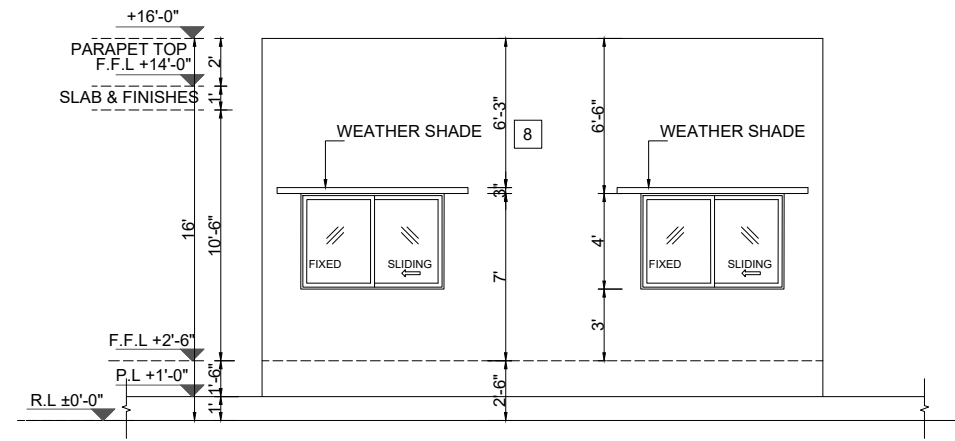
DRAWING NO:
A-02

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

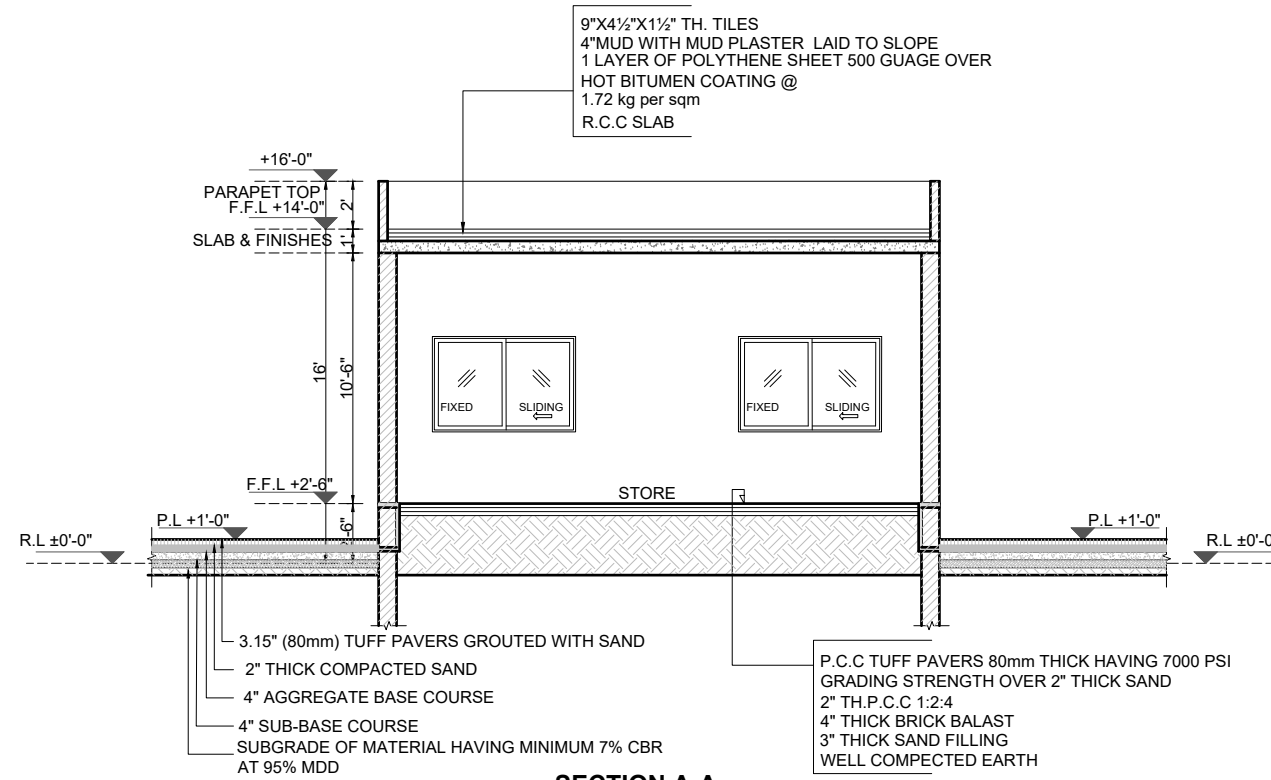
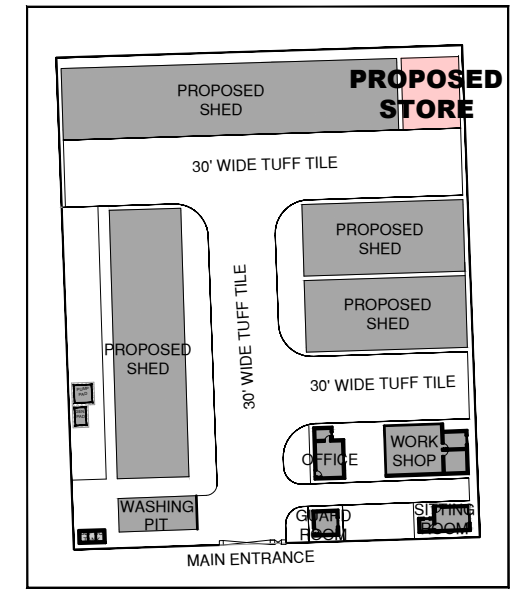
SHEET:
1 OF 1
JOB NO:
488-01



ELEVATION-01



ELEVATION-02



SECTION A-A

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

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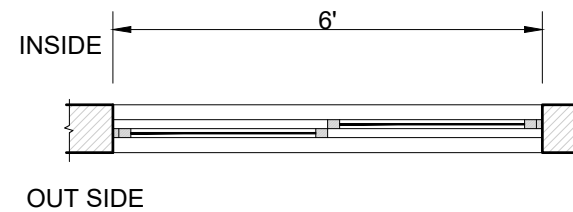
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 273

DRAWING TITLE:
ELEVATION-01,02 & SECTION A-A
PROPOSED STORE
OKARA

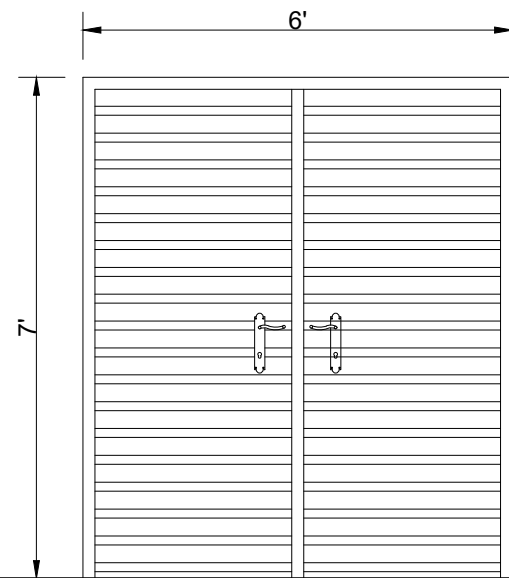
REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

DRAWING NO:
A-03
 SCALE:
UNIT=FEET
1/8"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01

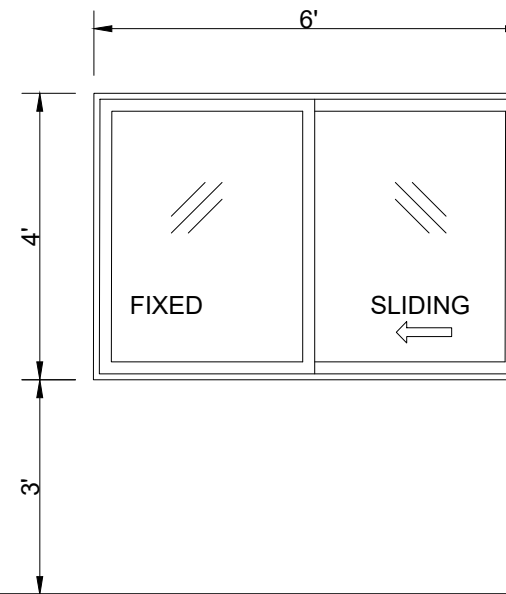


PLAN OF W1



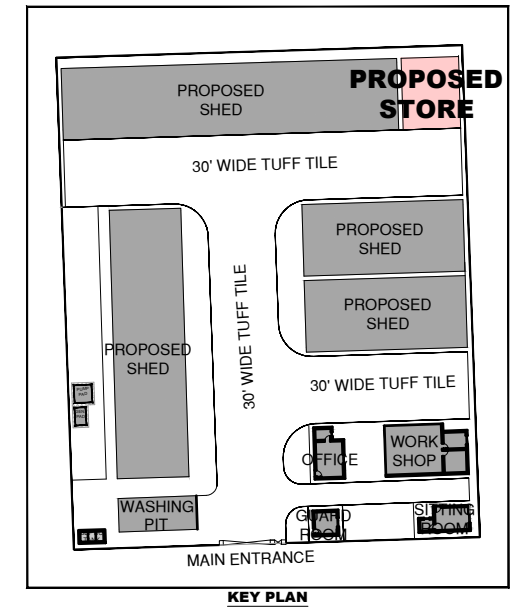
ELEVATION OF D1

SIZE=6'-0"x7'-0"
 QUANTITY= 01 NOS. HOLLOW
 FLUSH DOOR WITH COMMERCIAL
 PLY(3 PLY)



ELEVATION OF W1

SIZE=6'-0"x4'-0"
 QUANTITY= 04 NOS.
 STEEL SLIDING WINDOW,
 FIXED WITH 5MM THICK GLASS
 INCLUDING WIRE GAUZE



CLIENT:
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PROJECT:
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 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 274

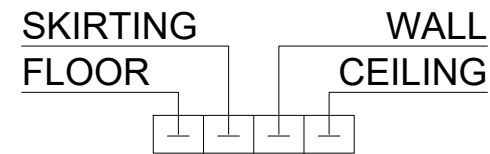
DRAWING TITLE:
DOOR WINDOW SCHEDULE
PROPOSED STORE
OKARA

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY: Munir	DRAWING NO: A-04
CHECKED BY: Sadat Waleed	
DATE: June, 2022	SCALE: 3/8"=1'-0"
	SHEET: 1 OF 1 JOB NO: 488-01

SCHEDULE OF INTERNAL FINISHES

LEGEND



- ① PORCELAIN TILES OF APPROVED SIZE PATTERN AND COLOR
- ② CERAMIC TILES OF APPROVED SIZE PATTERN AND COLOR
7'-0" HIGH WITH VENILE EMULSION PAINT TILL CEILING.
(MATT FINISH ON FLOOR & GLAZED ON WALL)
- ③ PORCELAIN SLABS FOR TREADS & RISER OF APPROVED COLOR & PATTERN
- ④ DISTAMPER ON C.S PLASTER (APPROVED MAKE & SHADE)
- ⑤ DISTAMPER PAINT
- ⑥ P.C.C TUFF PAVERS 80mm THICK HAVING 7000 PSI GRADING STRENGTH OVER 2" THICK SAND
- ⑦ 4" HIGH PORCELAIN TILES SKIRTING

SCHEDULE OF EXTERNAL FINISHES

- ⑧ DEEP STRUCK POINTING
- ⑨ 9"X4½"X1½" TH. TILES

CLIENT:

 **PUNJAB MUNICIPAL DEVELOPMENT
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(PMDFC)**

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PROJECT:

PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 275

DRAWING TITLE:

**LEGEND & NOTES
OFFICE BLOCK
OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

Munir

CHECKED BY:

Sadat Waleed

DATE:

June, 2022

DRAWING NO:

A-05

SCALE:

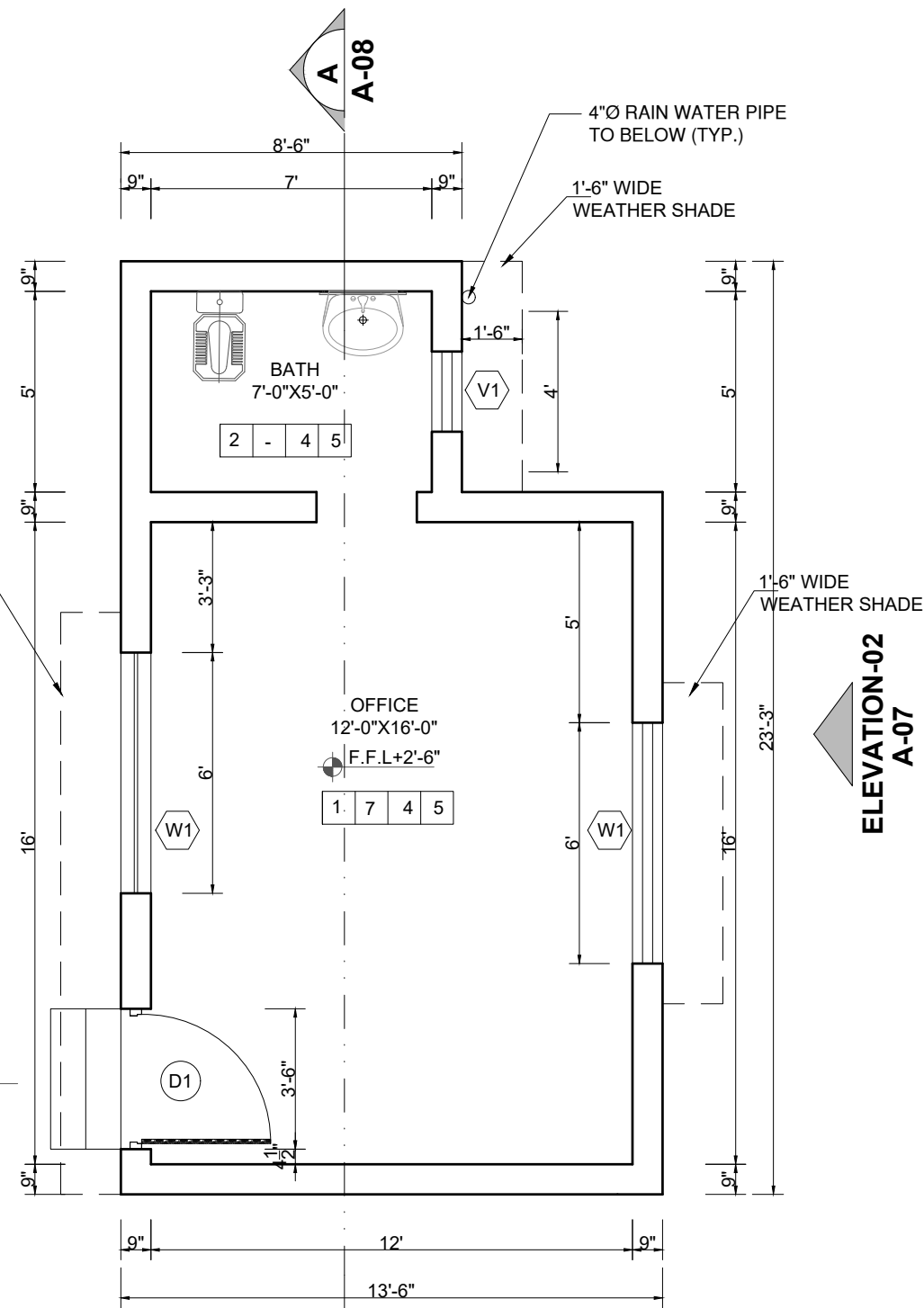
UNIT=FEET
NTS

SHEET:

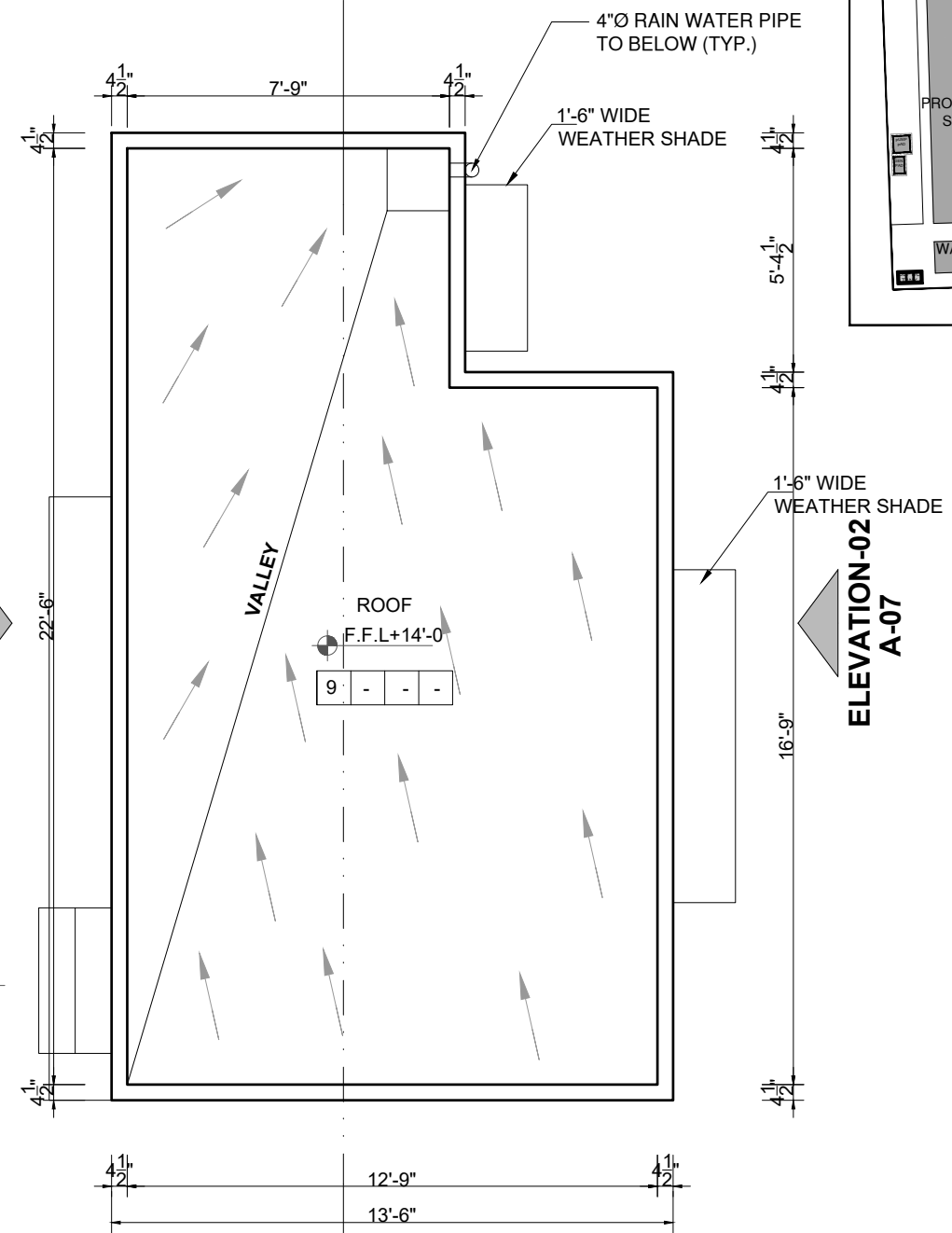
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JOB NO:

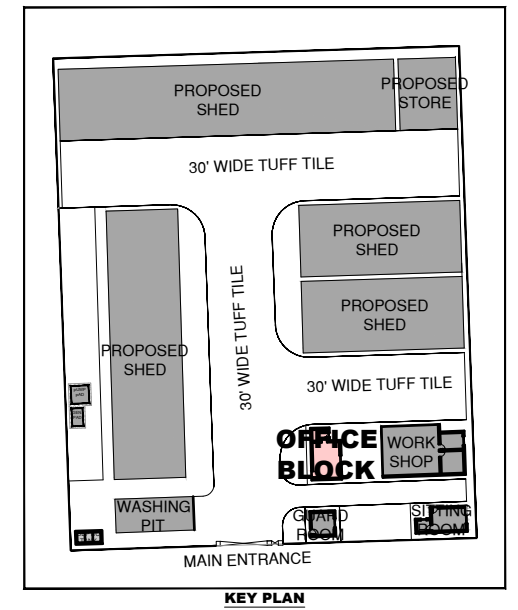
488-01



GROUND FLOOR PLAN



ROOF PLAN



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

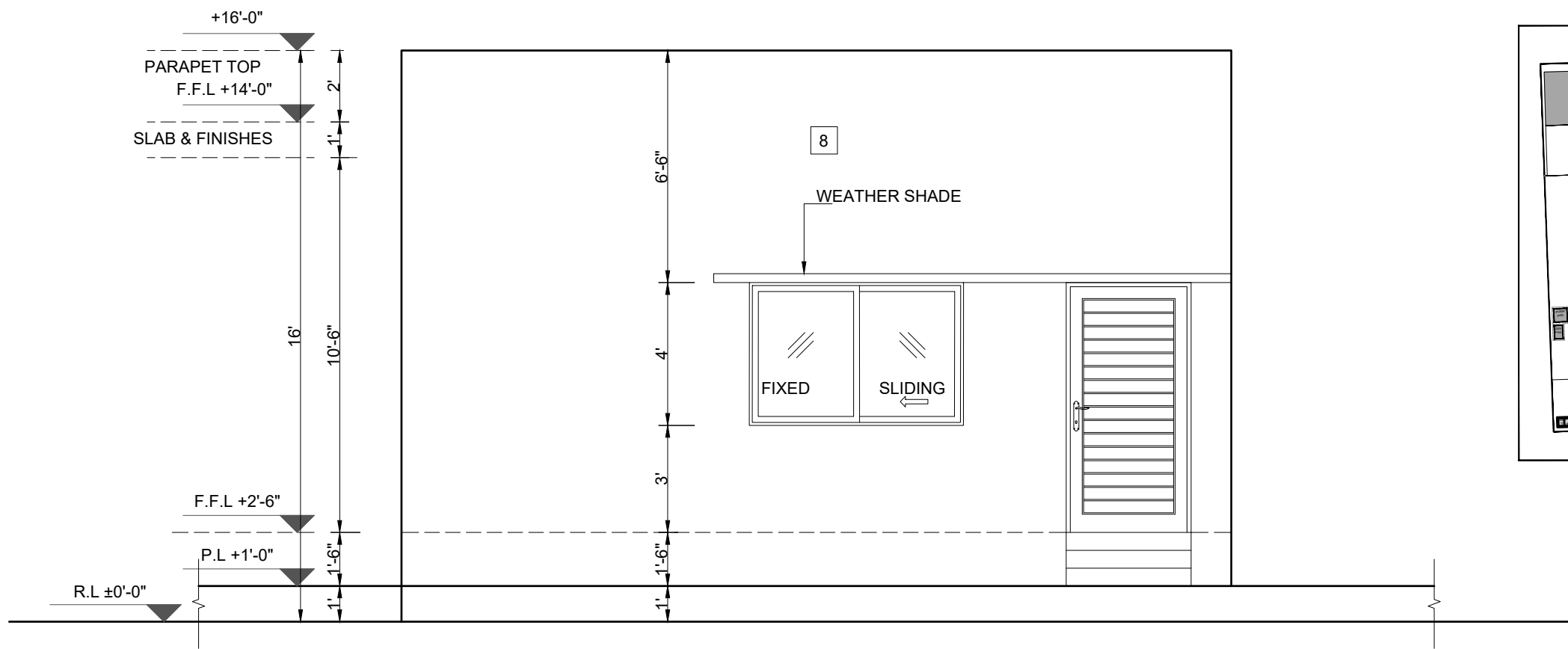
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 276

DRAWING TITLE:
GROUND FLOOR & ROOF PLAN
OFFICE BLOCK
OKARA

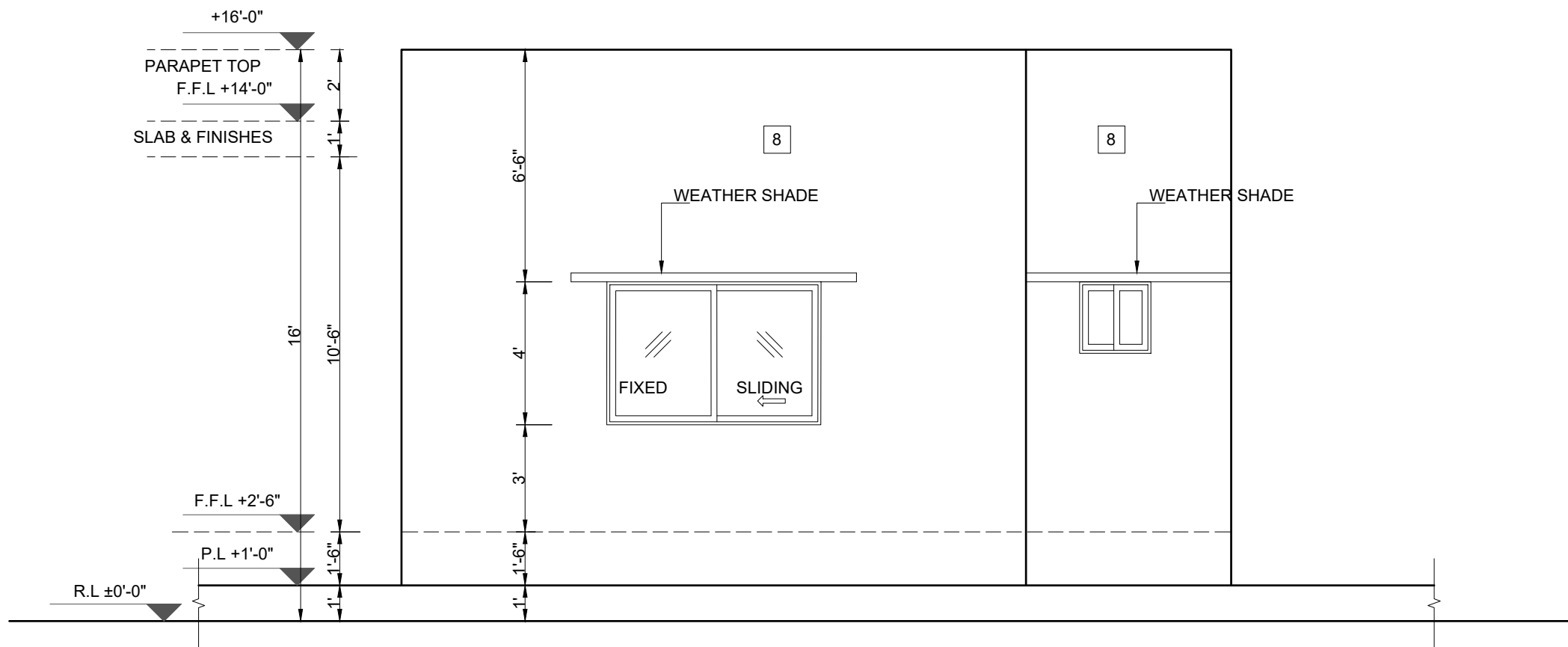
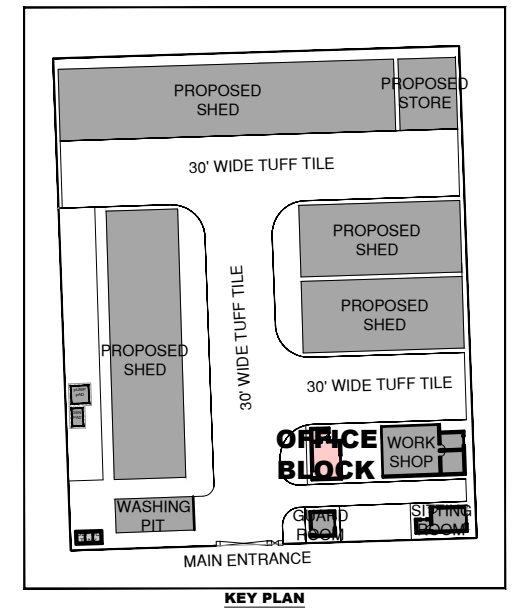
REV.	DATE	DESCRIPTION

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

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



ELEVATION-01



ELEVATION-02

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

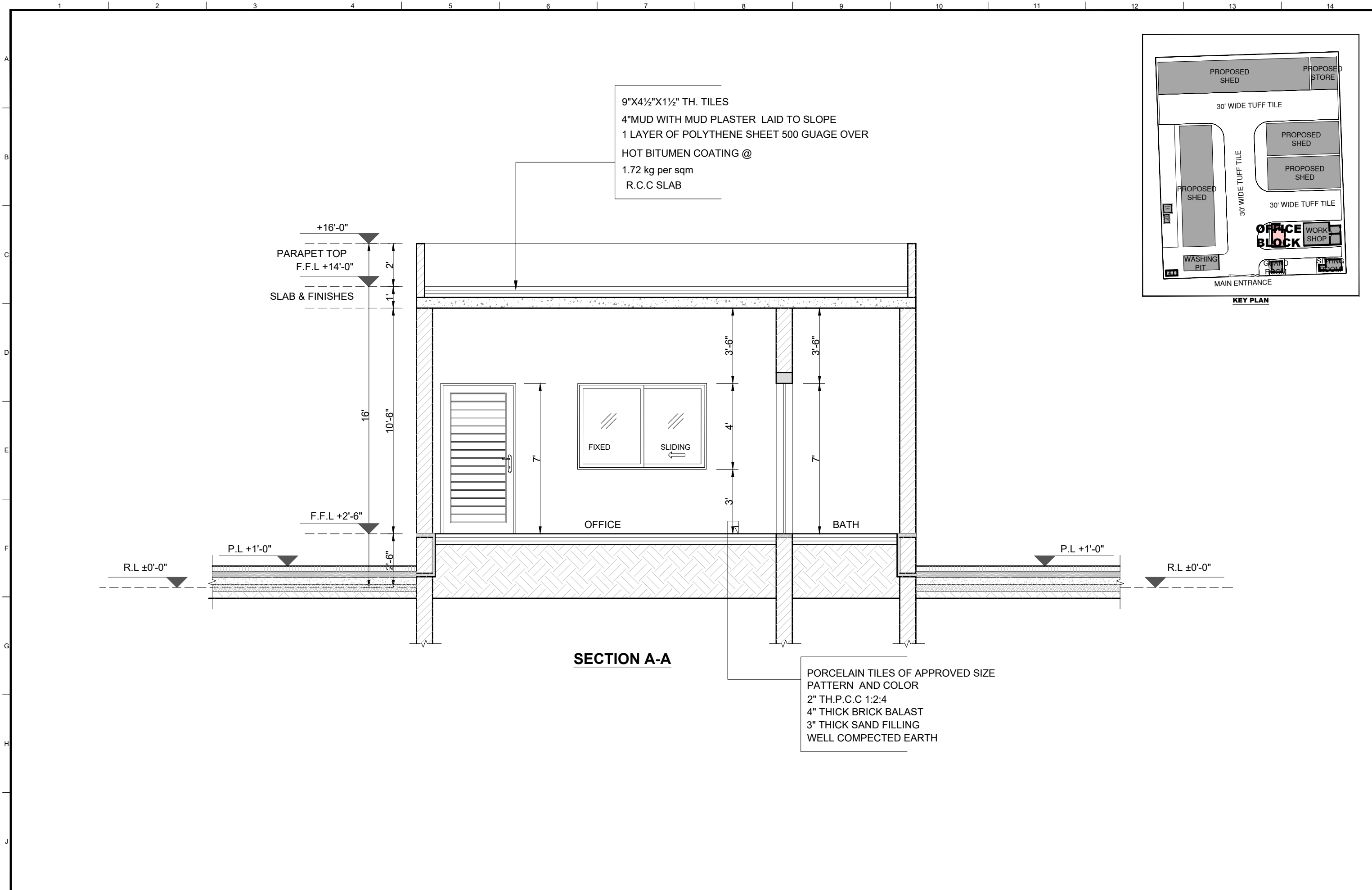
CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan)
 Tel: +92 42 35113123, +92 42 35113124
 Fax: +92 42 35113125
 E-mail: info@jers.com.pk, mail@jers.com.pk
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 277

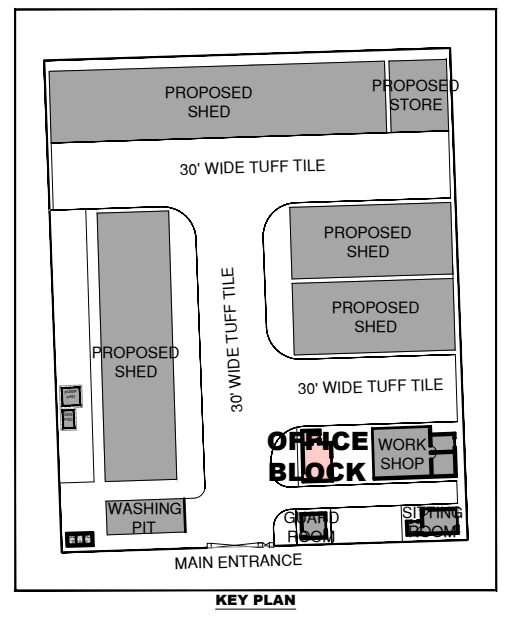
DRAWING TITLE:
ELEVATION-01,02
OFFICE BLOCK
OKARA

REV.	DATE	DESCRIPTION

DRAWN BY: Munir	DRAWING NO: A-07
CHECKED BY: Sadat Waleed	
DATE: June, 2022	SCALE: 1/4"=1'-0"
	SHEET: 1 OF 1
	JOB NO: 488-01



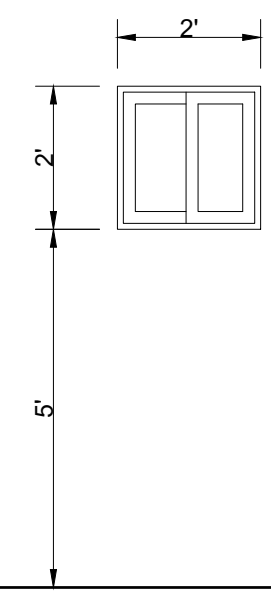
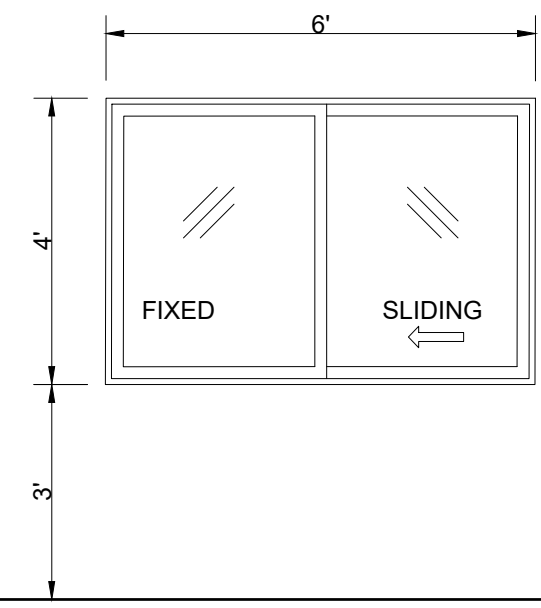
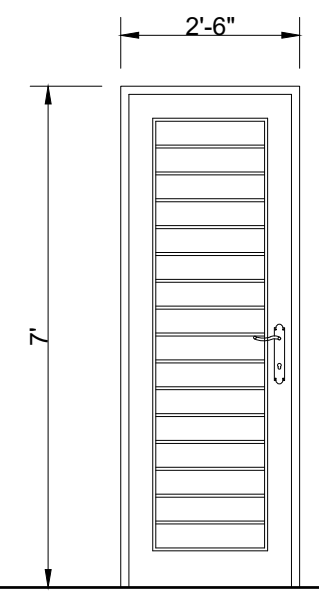
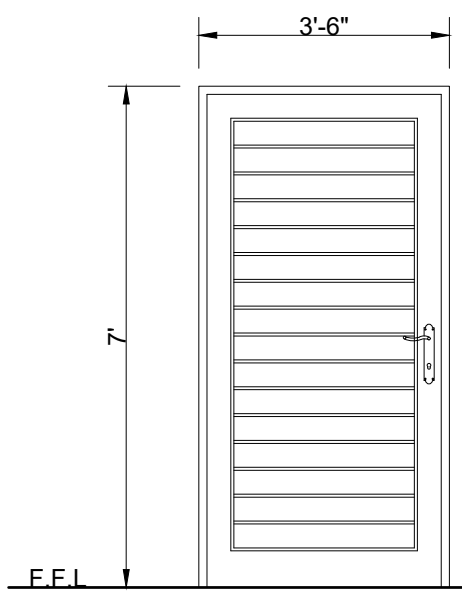
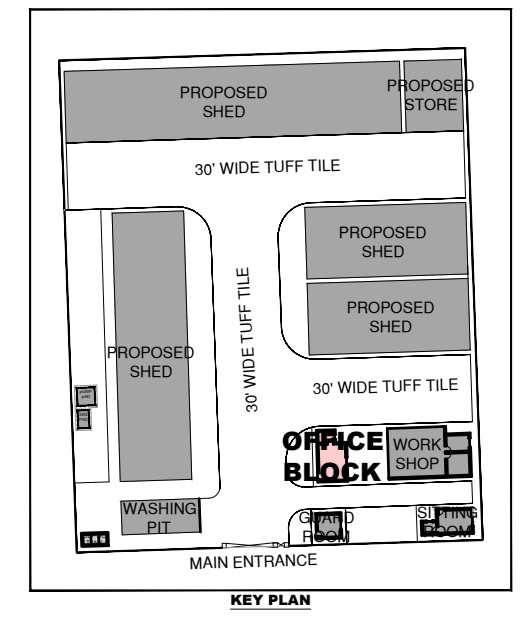
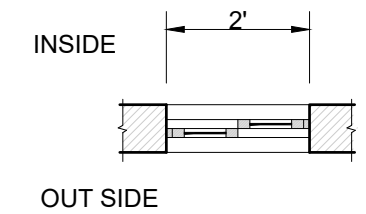
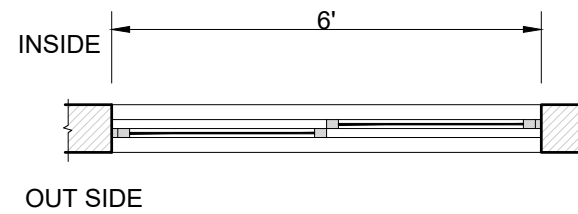
9"X4½"X1½" TH. TILES
 4" MUD WITH MUD PLASTER LAID TO SLOPE
 1 LAYER OF POLYTHENE SHEET 500 GAUGE OVER
 HOT BITUMEN COATING @
 1.72 kg per sqm
 R.C.C SLAB



SECTION A-A

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 COMPECTED EARTH

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. 278	DRAWING TITLE: SECTION A-A OFFICE BLOCK OKARA	DRAWN BY: Munir	DRAWING NO: A-08
				CHECKED BY: Sadat Waleed	
REV. DATE DESCRIPTION				DATE: June, 2022	



ELEVATION OF D1

SIZE=3'-6"x7'-0"
 QUANTITY= 01 NOS. HOLLOW
 FLUSH DOOR WITH COMMERCIAL
 PLY(3 PLY)

ELEVATION OF D2

SIZE=2'-6"x7'-0"
 QUANTITY= 01 NOS. HOLLOW
 FLUSH DOOR WITH COMMERCIAL
 PLY(3 PLY)

ELEVATION OF W1

SIZE=6'-0"x4'-0"
 QUANTITY= 02 NOS.
 STEEL SLIDING WINDOW,
 FIXED WITH 5MM THICK GLASS
 INCLUDING WIRE GAUZE

ELEVATION OF V1

SIZE=2'-0"x2'-0"
 QUANTITY= 01 NOS.
 STEEL SLIDING WINDOW,
 FIXED WITH 5MM THICK GLASS
 INCLUDING WIRE GAUZE

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. 279

DRAWING TITLE:
DOOR WINDOW SCHEDULE
OFFICE BLOCK
OKARA

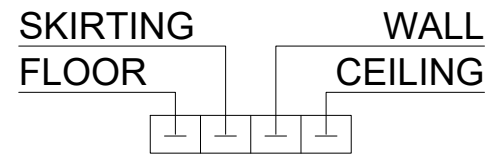
REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June,2022

DRAWING NO:
A-09
 SCALE:
3/8"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01

SCHEDULE OF INTERNAL FINISHES

LEGEND



- ① PORCELAIN TILES OF APPROVED SIZE PATTERN AND COLOR
- ② CERAMIC TILES OF APPROVED SIZE PATTERN AND COLOR
7'-0" HIGH WITH VENILE EMULSION PAINT TILL CEILING.
(MATT FINISH ON FLOOR & GLAZED ON WALL)
- ③ PORCELAIN SLABS FOR TREADS & RISER OF APPROVED COLOR & PATTERN
- ④ DISTAMPER ON C.S PLASTER (APPROVED MAKE & SHADE)
- ⑤ DISTAMPER PAINT
- ⑥ P.C.C TUFF PAVERS 80mm THICK HAVING 7000 PSI GRADING STRENGTH OVER 2" THICK SAND
- ⑦ 4" HIGH PORCELAIN TILES SKIRTING

SCHEDULE OF EXTERNAL FINISHES

- ⑧ DEEP STRUCK POINTING
- ⑨ 9"X4½"X1½" TH. TILES

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. 280

DRAWING TITLE:

**LEGEND & NOTES
SITTING AREA
OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

Munir

CHECKED BY:

Sadat Waleed

DATE:

June, 2022

DRAWING NO:

A-10

SCALE:

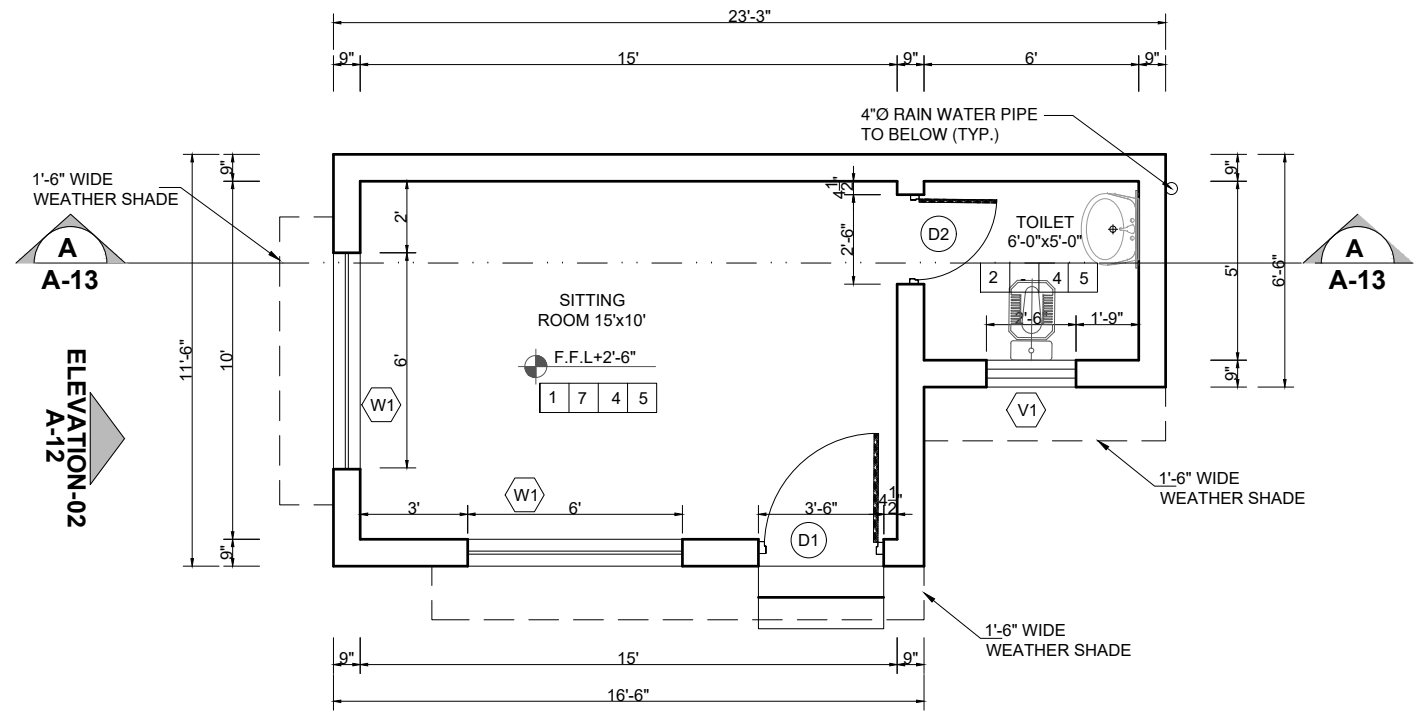
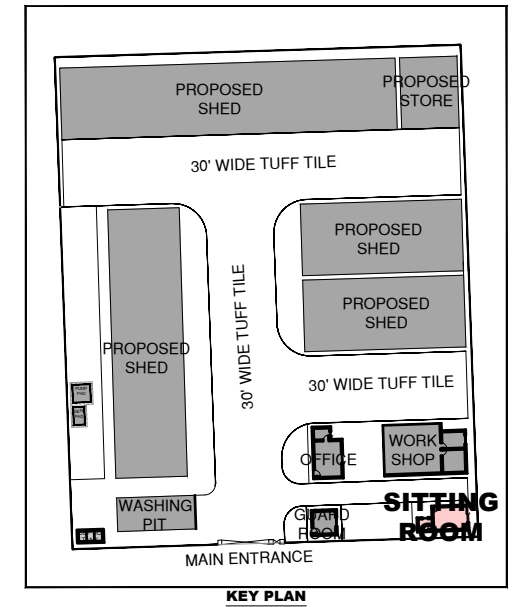
UNIT=FEET
NTS

SHEET:

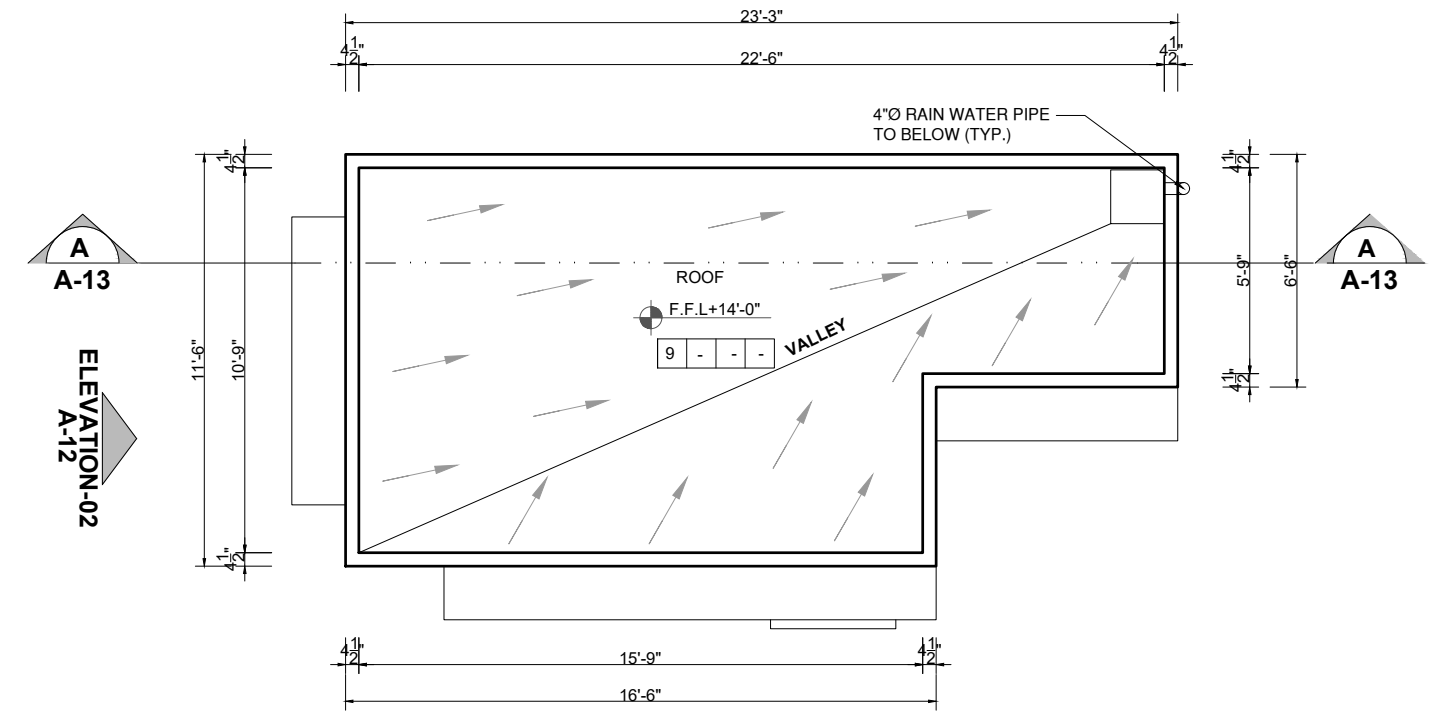
1 OF 1

JOB NO:

488-01



GROUND FLOOR PLAN
 ELEVATION-01
 A-12



ROOF PLAN
 ELEVATION-01
 A-12

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
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 281

DRAWING TITLE:
GROUND FLOOR & ROOF PLAN
SITTING AREA
OKARA

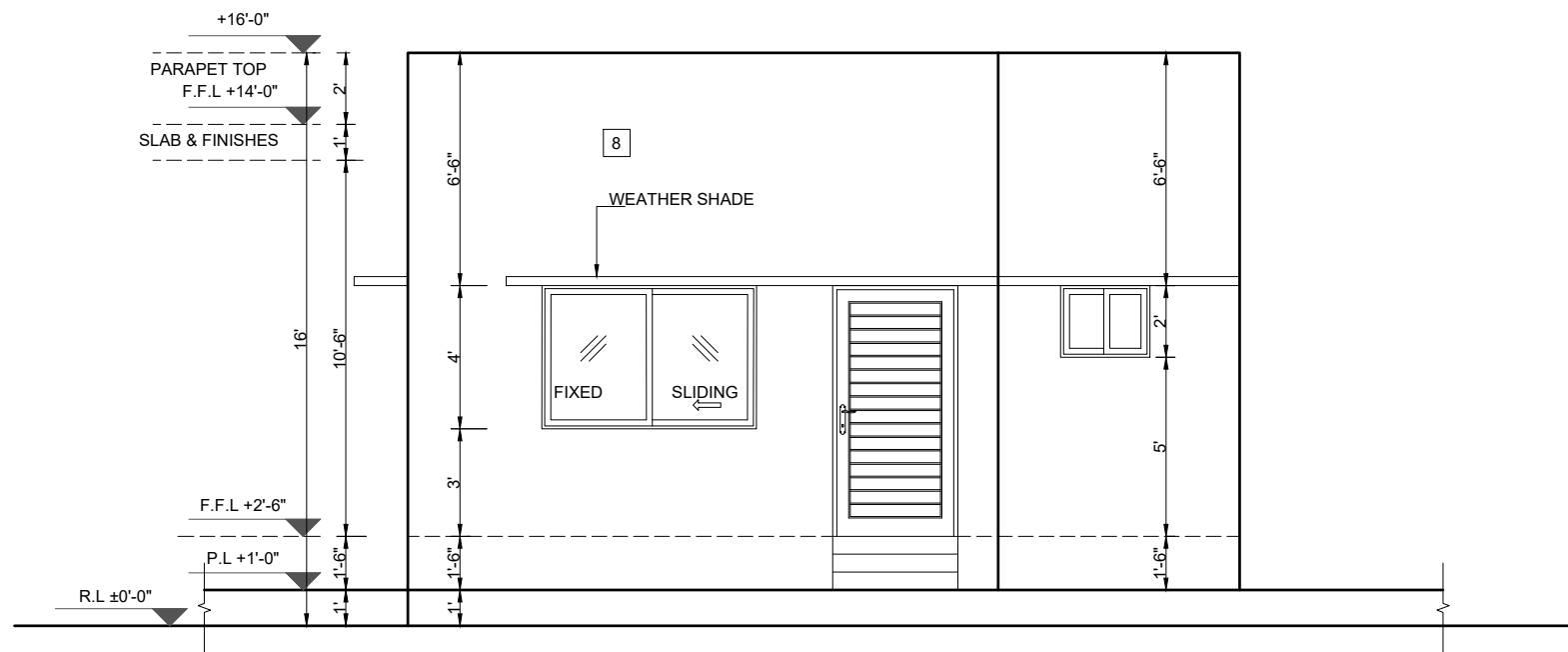
REV.	DATE	DESCRIPTION

DRAWN BY:
 Munir
 CHECKED BY:
 Sadat Waleed
 DATE:
 June, 2022

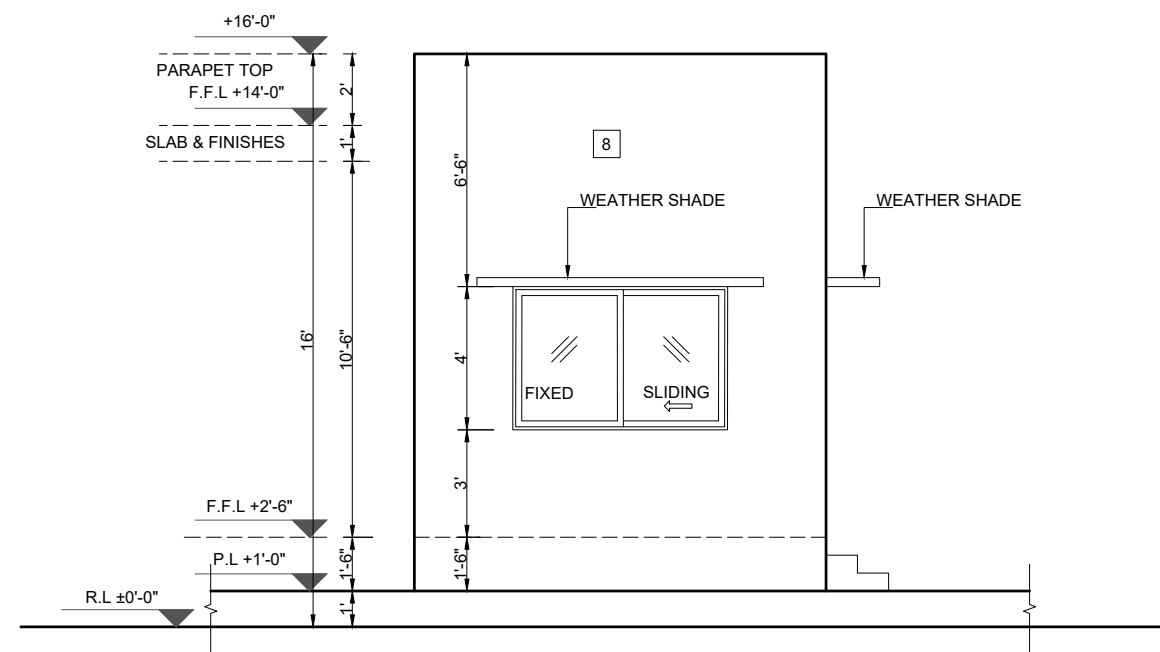
DRAWING NO:
A-11

SCALE:
 UNIT=FEET
 3/16"=1'-0"

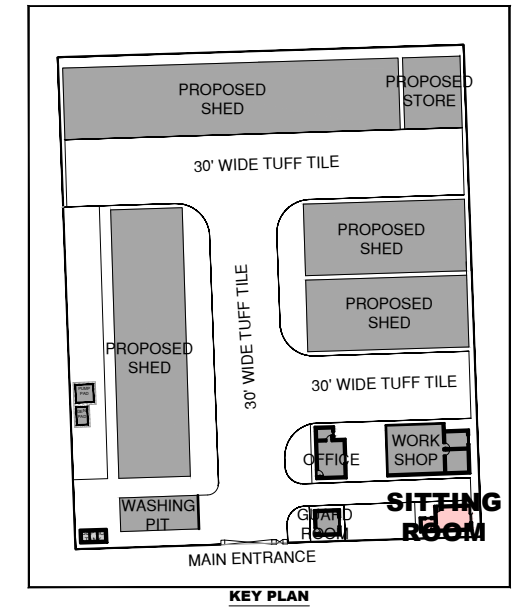
SHEET:
 1 OF 1
 JOB NO:
 488-01



ELEVATION-01



ELEVATION-02



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

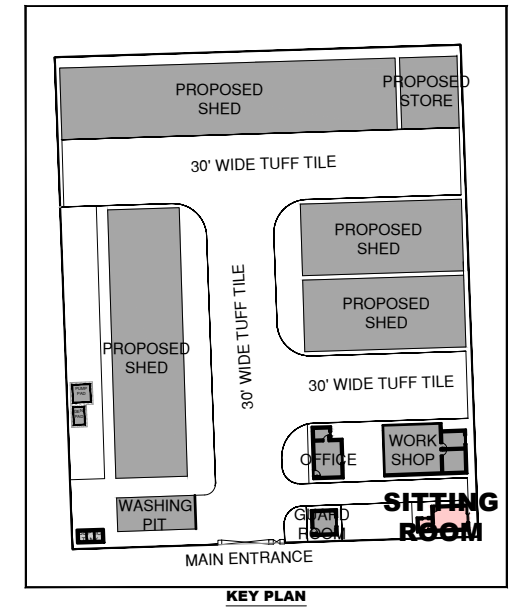
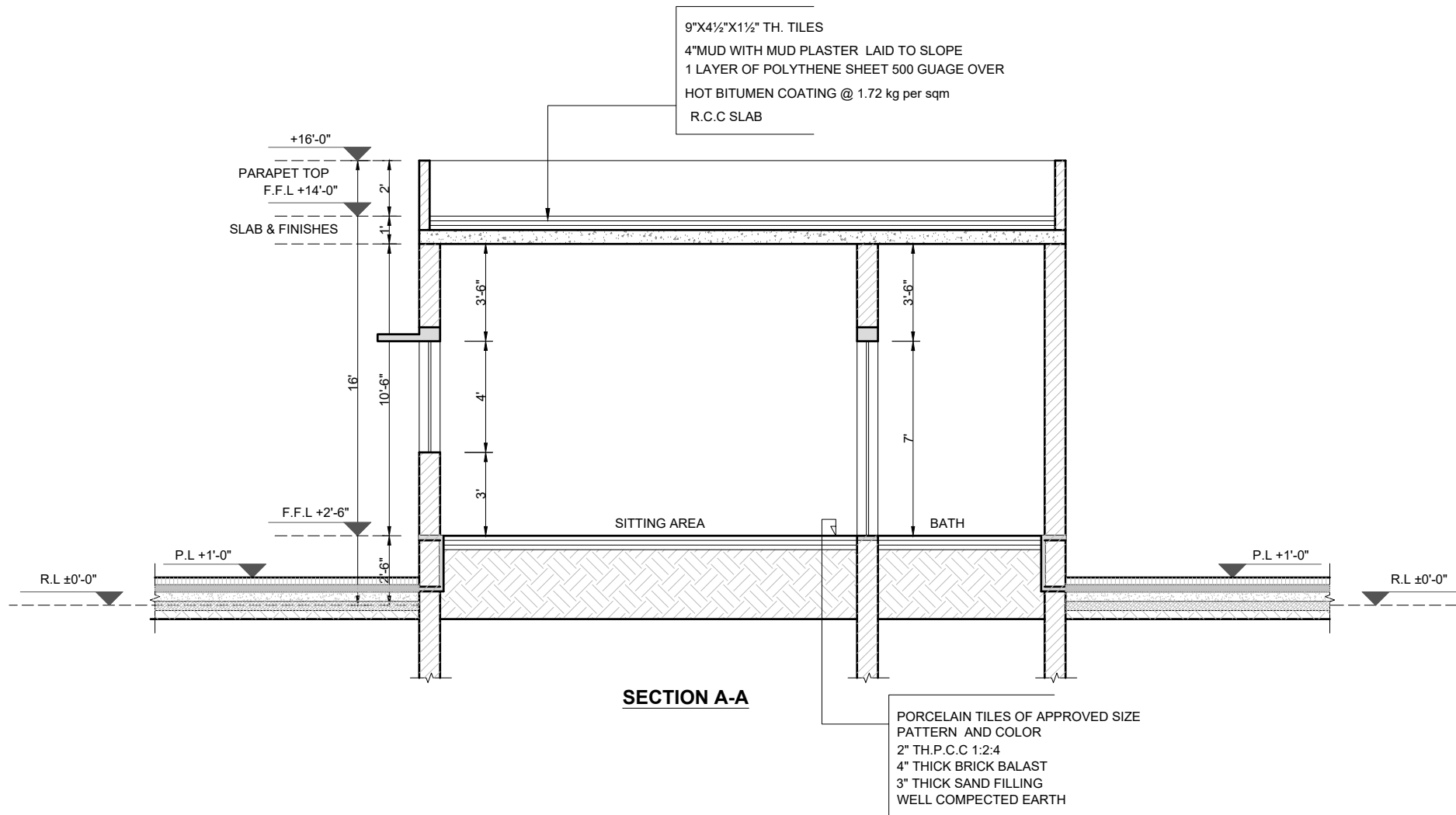
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 282

DRAWING TITLE:
ELEVATION-01 & 02
SITTING AREA
OKARA

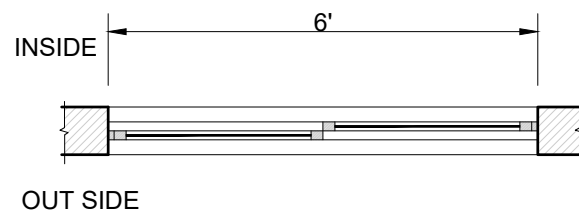
REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

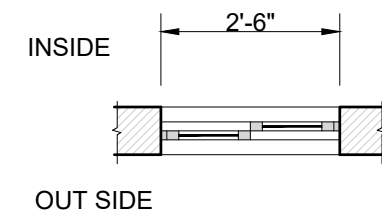
DRAWING NO:
A-12
 SCALE:
UNIT=FEET
3/16"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01



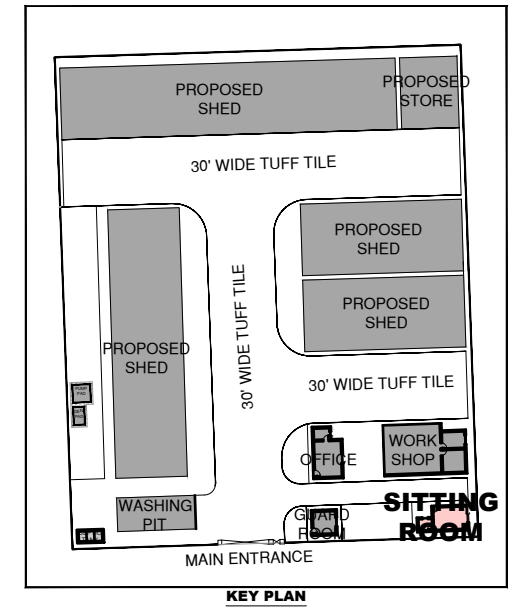
CLIENT: PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS: JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 283	DRAWING TITLE: SECTION A-A SITTING AREA OKARA	REV.	DATE	DESCRIPTION	DRAWN BY: Munir	DRAWING NO: A-13
				-	-	-	CHECKED BY: Sadat Waleed	
							DATE: June, 2022	



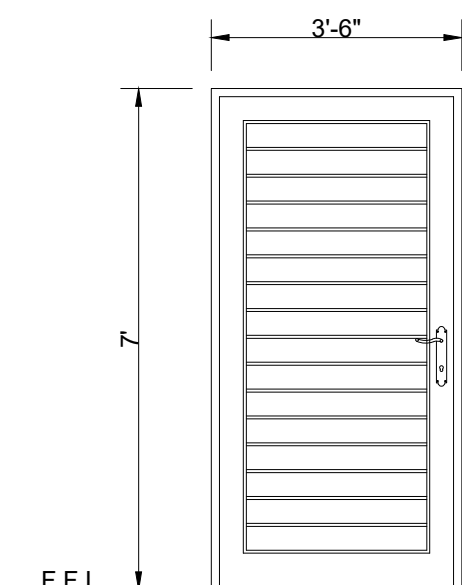
PLAN OF W1



PLAN OF V1

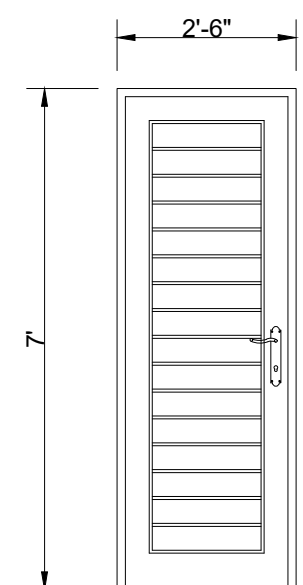


KEY PLAN



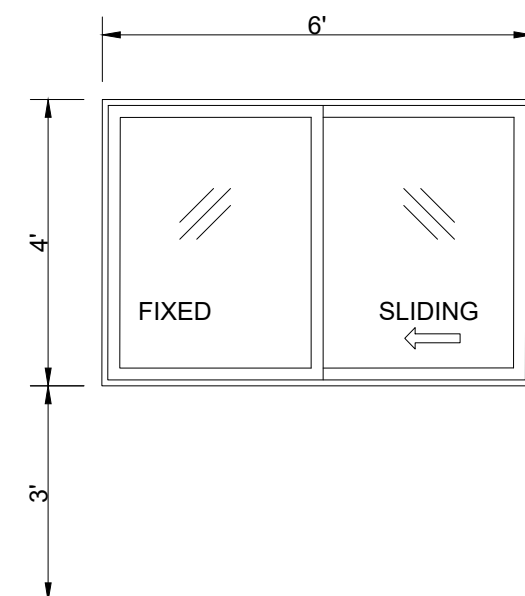
ELEVATION OF D1

SIZE=3'-6"x7'-0"
 QUANTITY= 01 NOS. HOLLOW
 FLUSH DOOR WITH COMMERCIAL
 PLY(3 PLY)



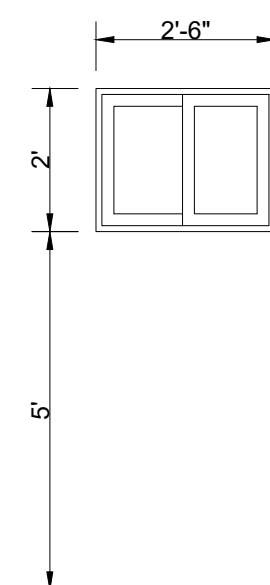
ELEVATION OF D2

SIZE=2'-6"x7'-0"
 QUANTITY= 01 NOS. HOLLOW
 FLUSH DOOR WITH COMMERCIAL
 PLY(3 PLY)



ELEVATION OF W1

SIZE=6'-0"x4'-0"
 QUANTITY= 02 NOS.
 STEEL SLIDING WINDOW,
 FIXED WITH 5MM THICK GLASS
 INCLUDING WIRE GAUZE



ELEVATION OF V1

SIZE=2'-6"x2'-0"
 QUANTITY= 01 NOS.
 STEEL SLIDING WINDOW,
 FIXED WITH 5MM THICK GLASS
 INCLUDING WIRE GAUZE

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. 284**

DRAWING TITLE:

**DOOR WINDOW SCHEDULE
 SITTING AREA
 OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
Munir

CHECKED BY:
Sadat Waleed

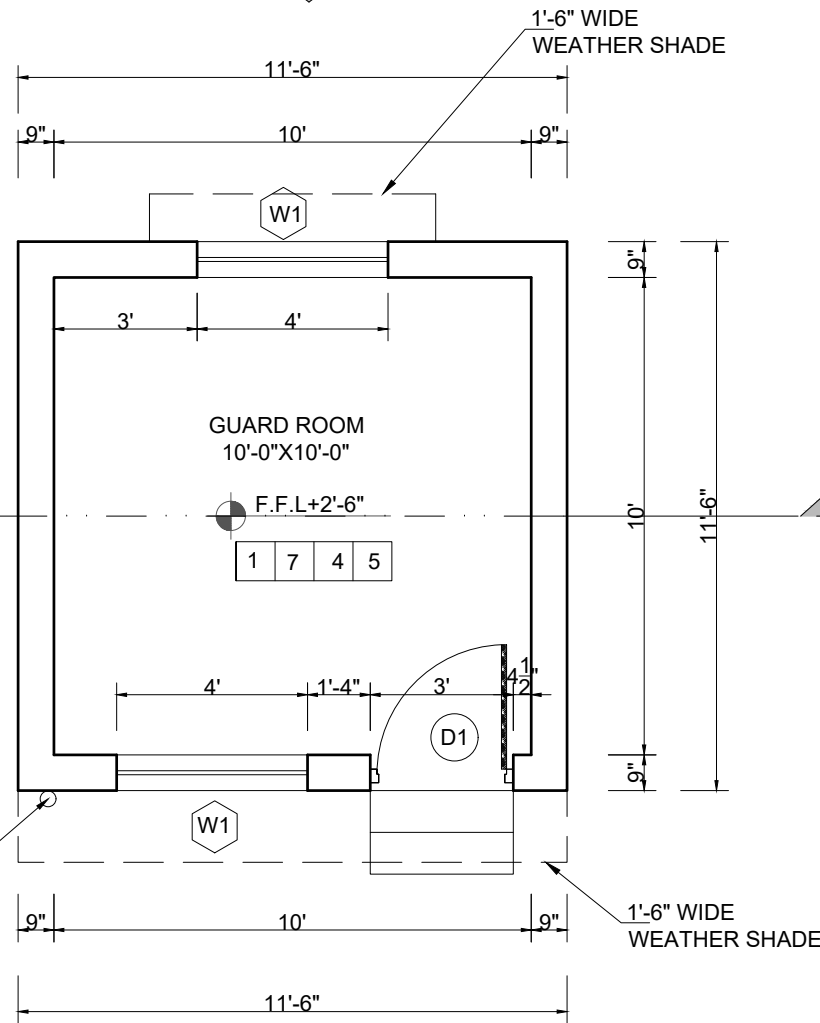
DATE:
June, 2022

DRAWING NO:
A-14

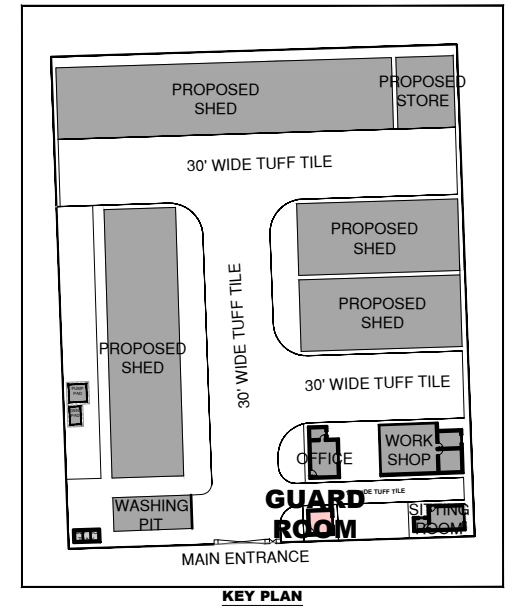
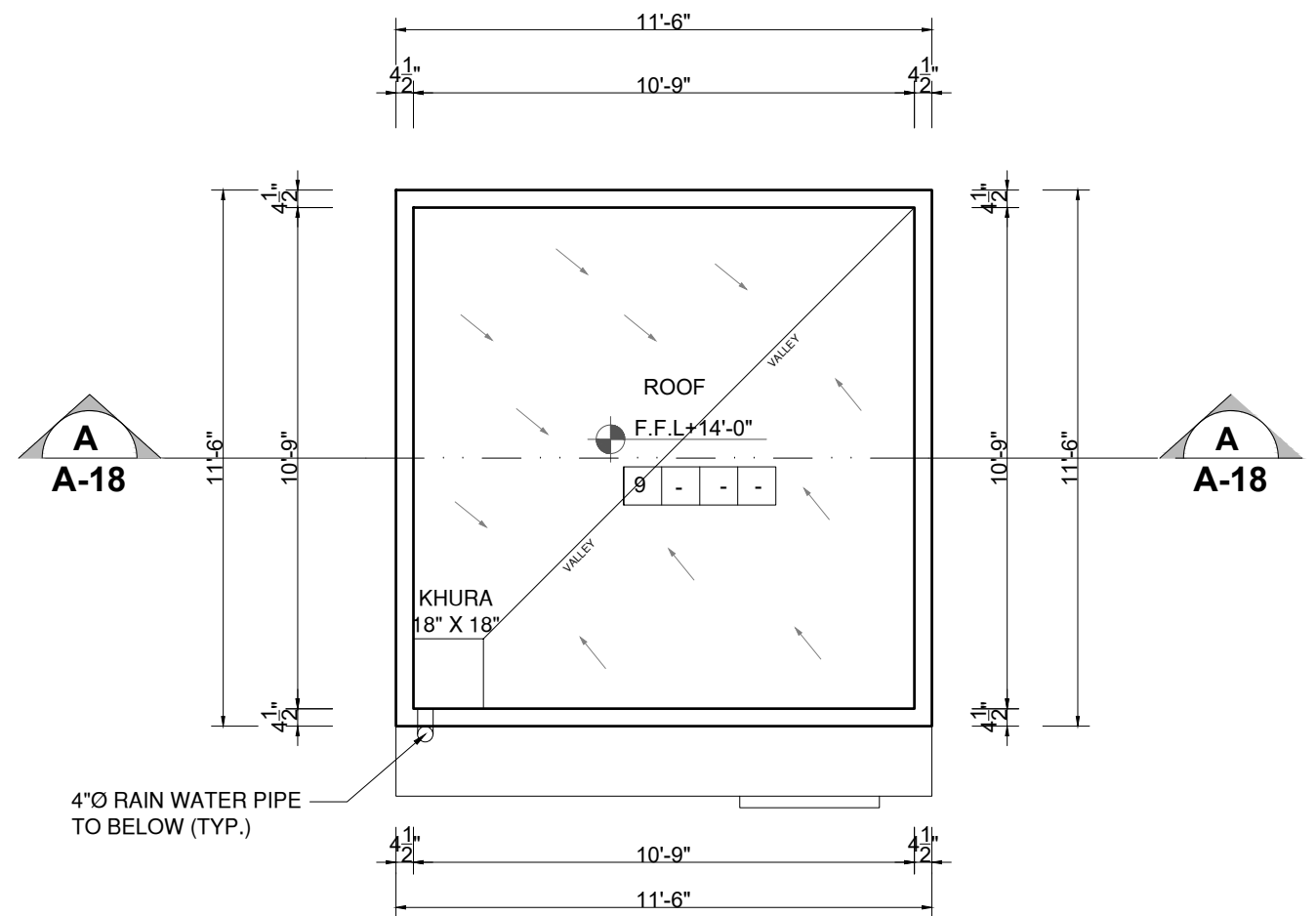
SCALE:
3/8"=1'-0"

SHEET:
1 OF 1
JOB NO:
488-01

**ELEVATION-02
A-17**



**ELEVATION-02
A-17**



GUARD ROOM
10'-0"X10'-0"

F.F.L.+2'-6"

1 7 4 5

ROOF

F.F.L.+14'-0"

9 - - -

KHURA
18" X 18"

GROUND FLOOR PLAN

ROOF PLAN

**ELEVATION-01
A-17**

**ELEVATION-01
A-17**

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

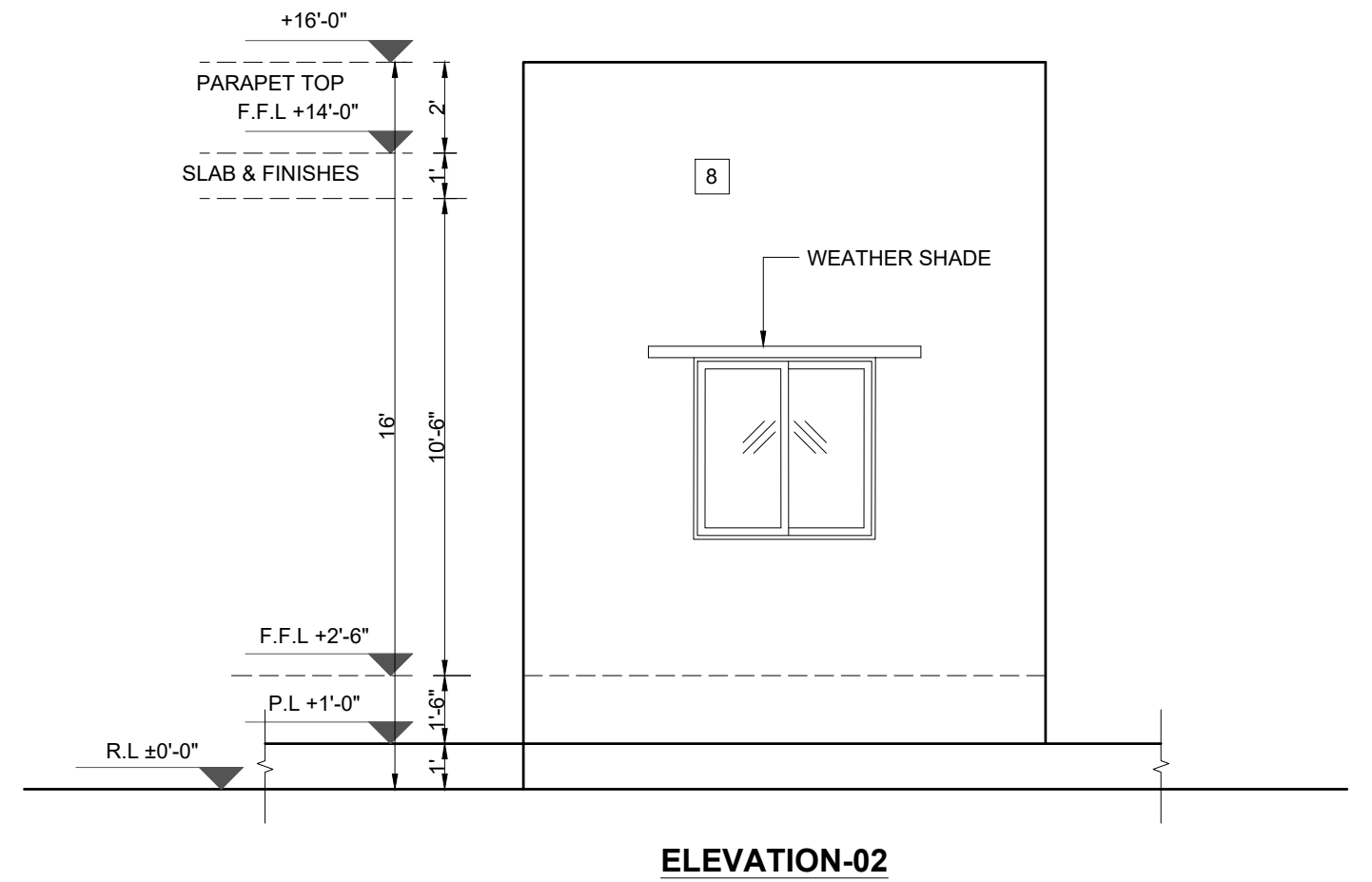
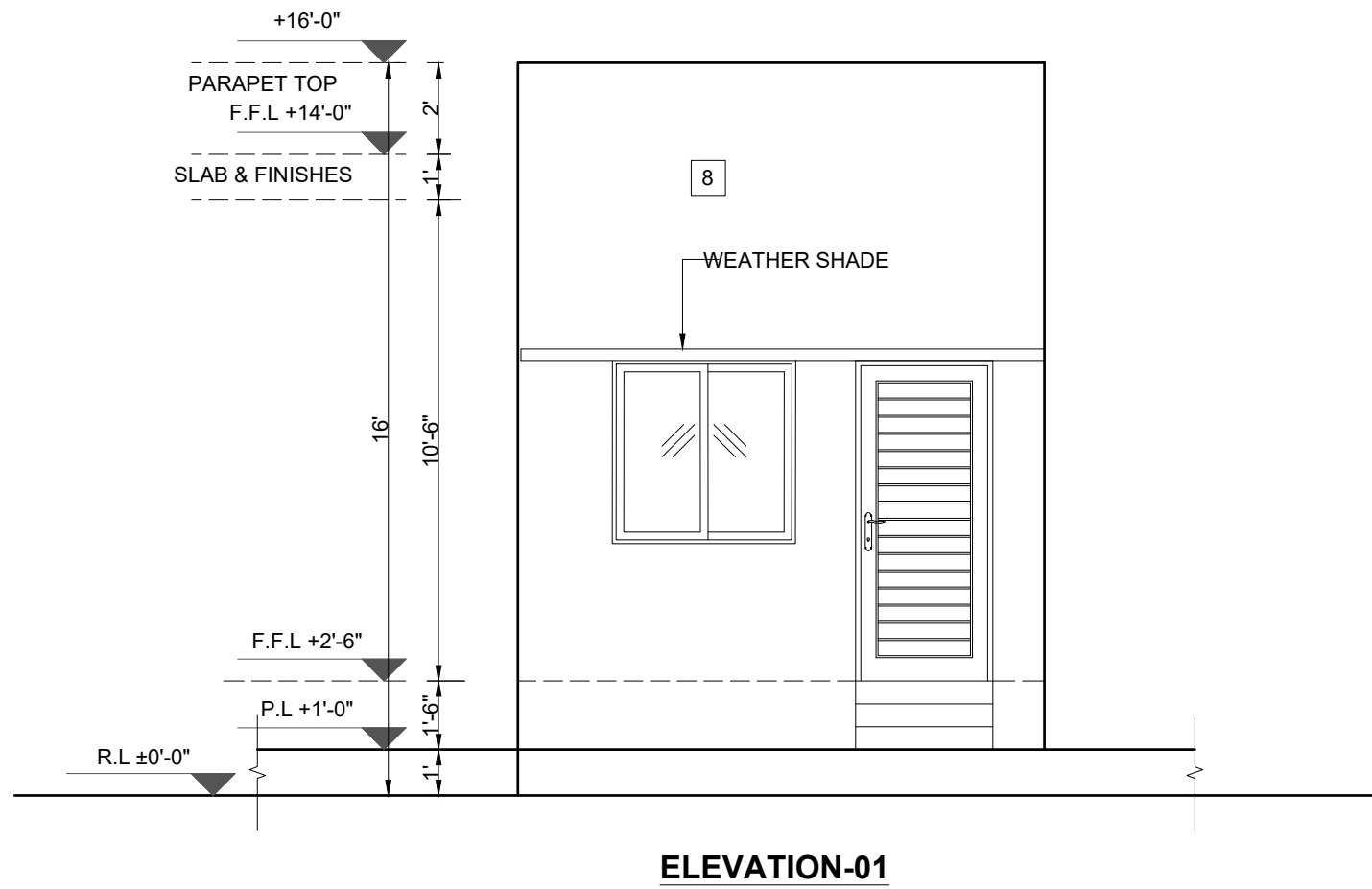
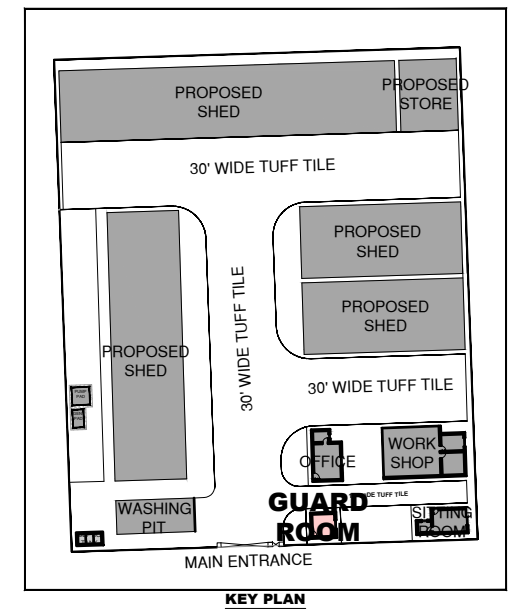
PROJECT:
**PUNJAB CITIES PROGRAM (PCP)
DETAILED DESIGN OF INFRASTRUCTURE
SUB-PROJECTS AND RESIDENTS SUPERVISION IN
16 CITIES OF PUNJAB. 286**

DRAWING TITLE:
**GROUND FLOOR & ROOF PLAN
GUARD ROOM
OKARA**

REV.	DATE	DESCRIPTION

DRAWN BY:
Munir
CHECKED BY:
Sadat Waleed
DATE:
June, 2022

DRAWING NO:
A-16
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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 E-mail: info@jers.com.pk, mail@jers.com.pk
 Web: http://www.jers.com.pk

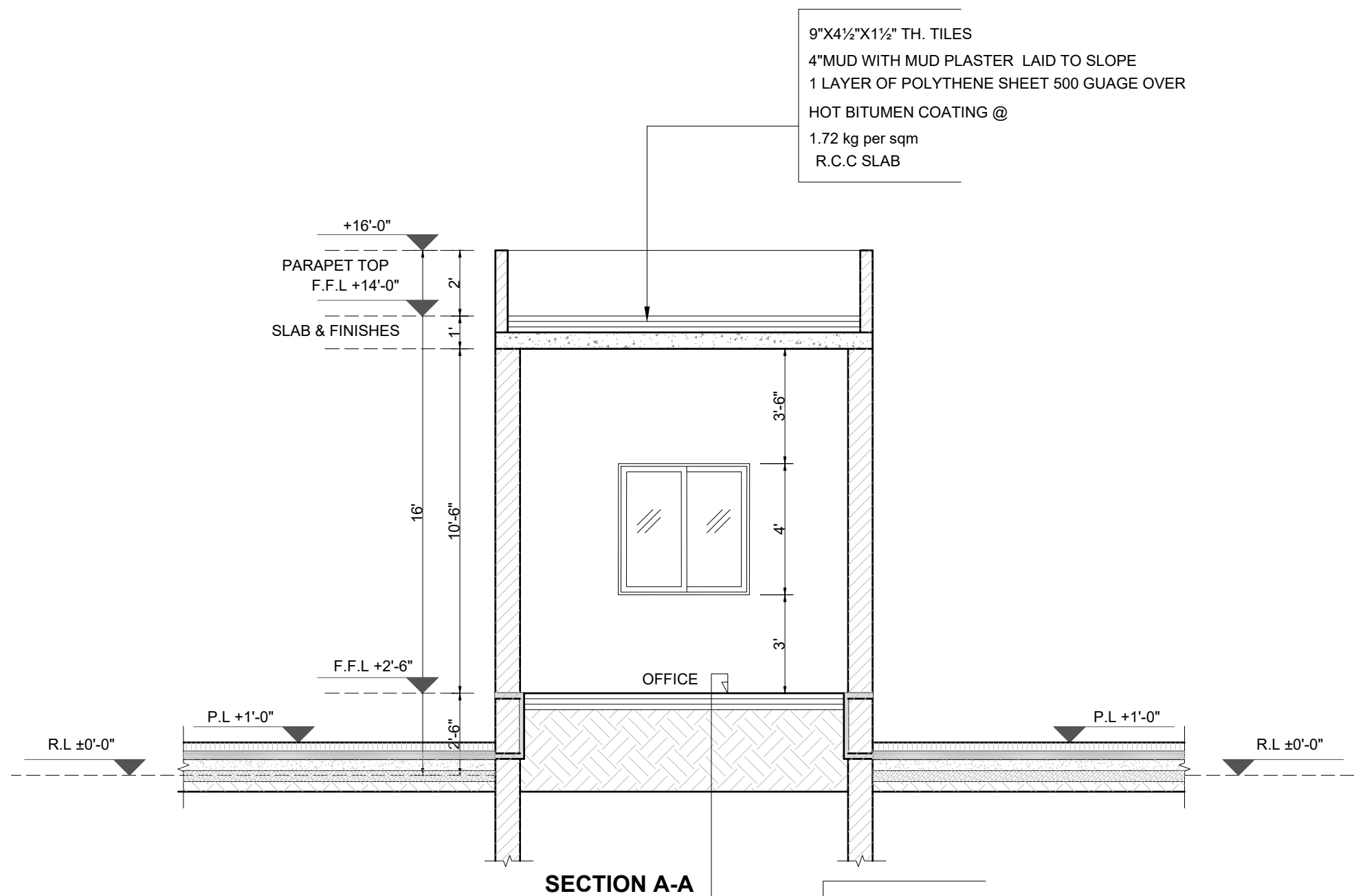
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 287

DRAWING TITLE:
ELEVATION-01 & 02
GUARD ROOM
OKARA

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

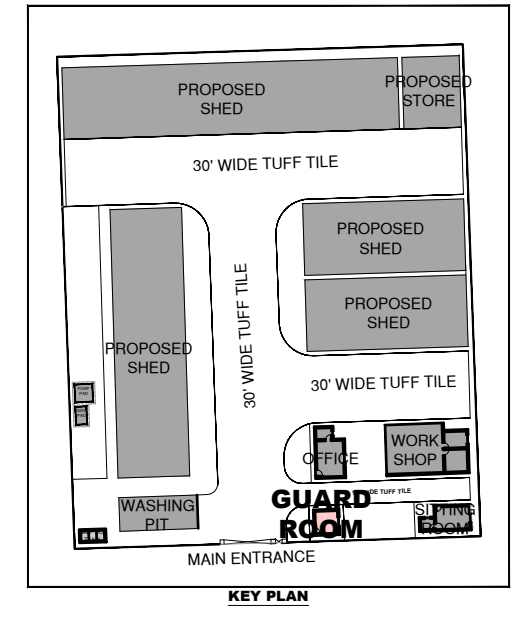
DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

DRAWING NO:
A-17
 SCALE:
1/4"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01



9"X4½"X1½" TH. TILES
 4" MUD WITH MUD PLASTER LAID TO SLOPE
 1 LAYER OF POLYTHENE SHEET 500 GAUGE OVER
 HOT BITUMEN COATING @
 1.72 kg per sqm
 R.C.C SLAB

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 COMPECTED EARTH



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. 288

DRAWING TITLE:
**SECTION A-A
 GUARD ROOM
 OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

DRAWING NO:
A-18
 SCALE:
1/4"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01

1 2 3 4 5 6 7 8 9 10 11 12 13 14

A

B

C

D

E

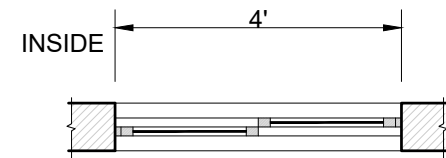
F

G

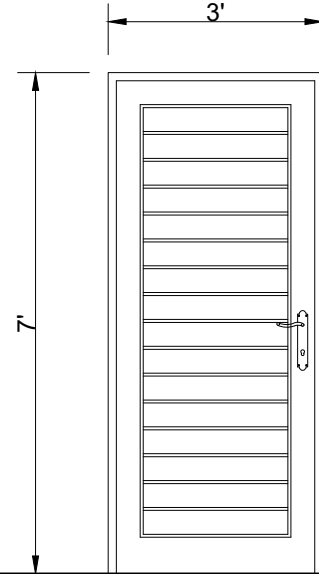
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J

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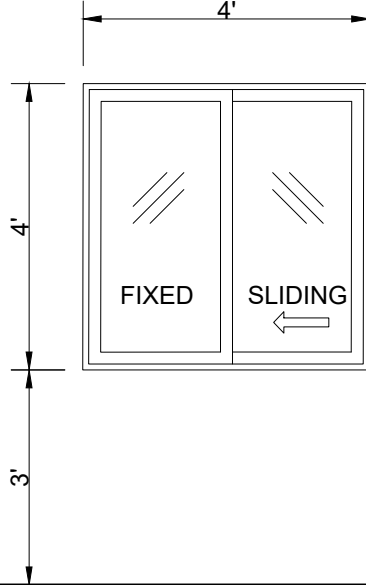


OUT SIDE
PLAN OF W1



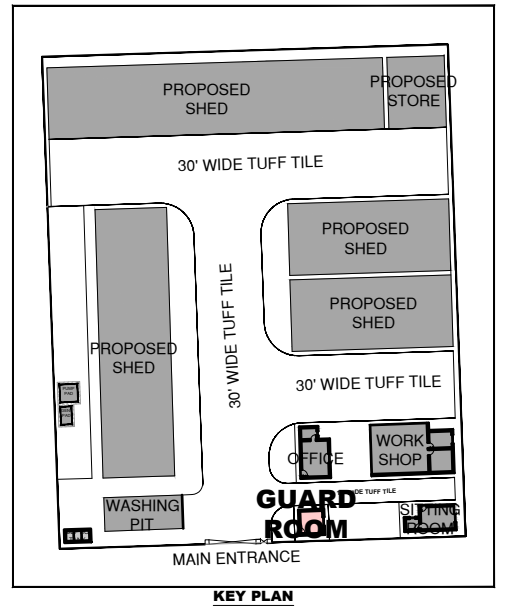
ELEVATION OF D1

SIZE=3'-0"x7'-0"
QUANTITY= 01 NOS. HOLLOW
FLUSH DOOR WITH COMMERCIAL
PLY(3 PLY)





ELEVATION OF W1

SIZE=4'-0"x4'-0"
QUANTITY= 02 NOS.
STEEL SLIDING WINDOW,
FIXED WITH 5MM THICK GLASS
INCLUDING WIRE GAUZE



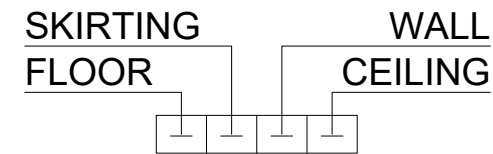
KEY PLAN

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. 289	DRAWING TITLE: DOOR WINDOW SCHEDULE GUARD ROOM OKARA	REV.	DATE	DESCRIPTION	DRAWN BY: Munir	DRAWING NO: A-19
				-	-	-	CHECKED BY: Sadat Waleed	
							DATE: June,2022	

1 2 3 4 5 6 7 8 9 10 11 12 13 14

SCHEDULE OF INTERNAL FINISHES

LEGEND




- ① PORCELAIN TILES OF APPROVED SIZE PATTERN AND COLOR
- ② CERAMIC TILES OF APPROVED SIZE PATTERN AND COLOR
7'-0" HIGH WITH VENILE EMULSION PAINT TILL CEILING.
(MATT FINISH ON FLOOR & GLAZED ON WALL)
- ③ PORCELAIN SLABS FOR TREADS & RISER OF APPROVED COLOR & PATTERN
- ④ DISTAMPER ON C.S PLASTER (APPROVED MAKE & SHADE)
- ⑤ DISTAMPER PAINT
- ⑥ P.C.C TUFF PAVERS 80mm THICK HAVING 7000 PSI GRADING STRENGTH OVER 2" THICK SAND
- ⑦ 4" HIGH PORCELAIN TILES SKIRTING

SCHEDULE OF EXTERNAL FINISHES

- ⑧ DEEP STRUCK POINTING
- ⑨ 9"X4½"X1½" TH. TILES

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. 290

DRAWING TITLE:

**LEGEND & NOTES
WORKSHOP
OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

Munir

CHECKED BY:

Sadat Waleed

DATE:

June, 2022

DRAWING NO:

A-20

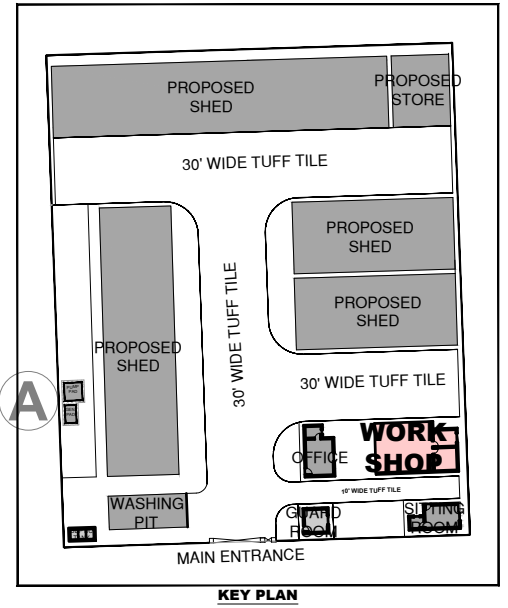
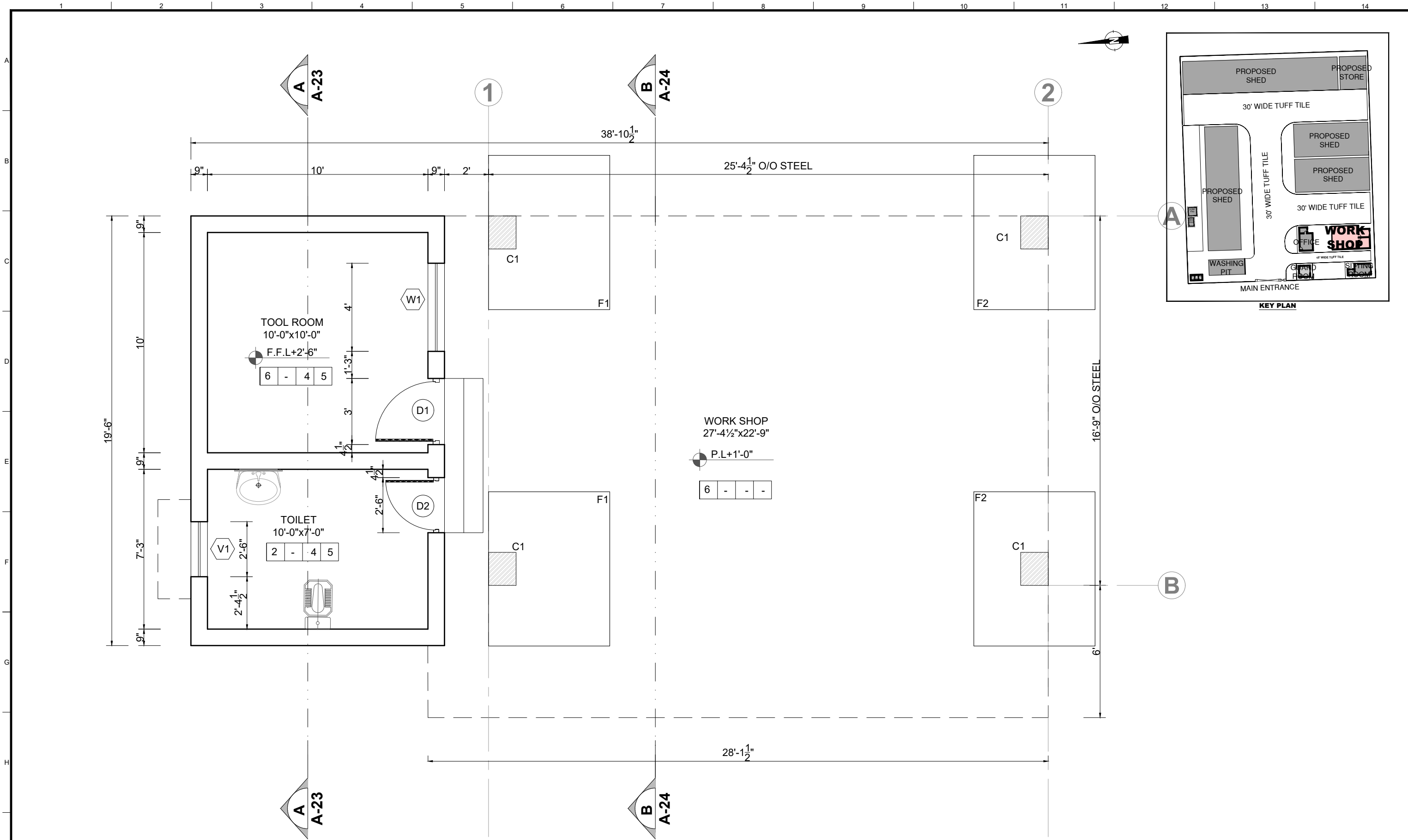
SCALE:
UNIT=FEET
NTS

SHEET:

1 OF 1

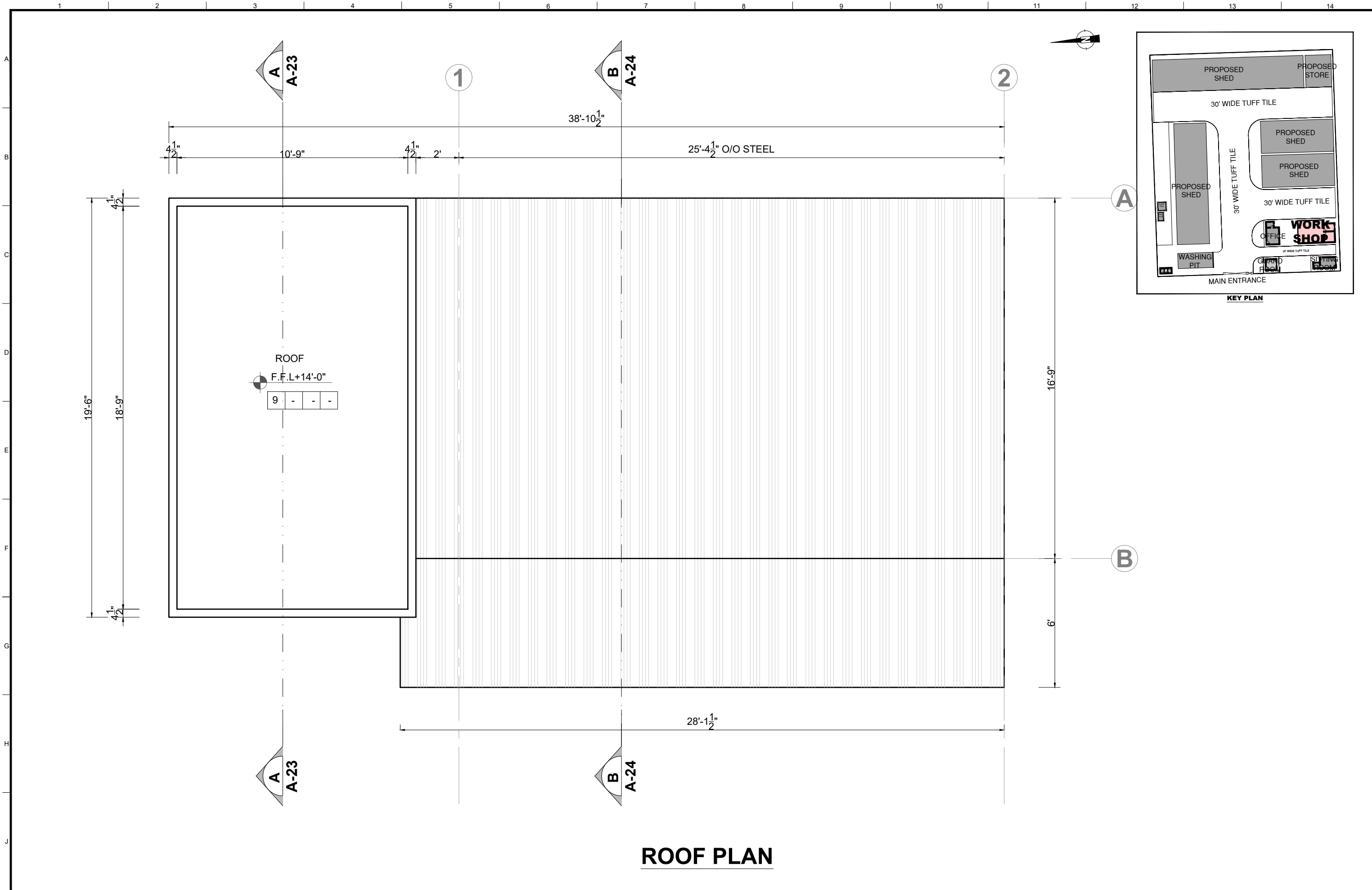
JOB NO:

488-01





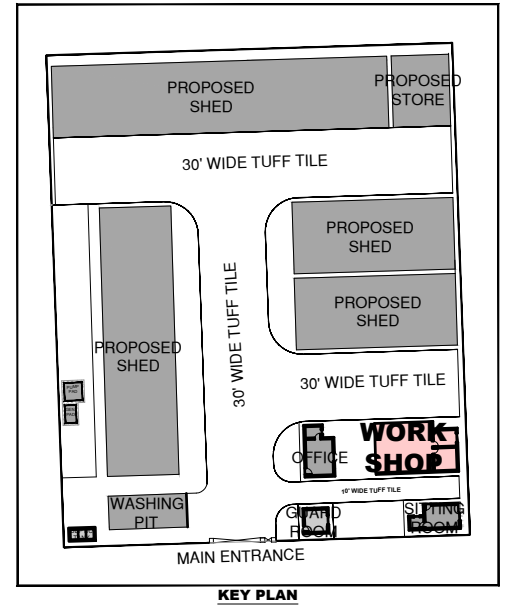
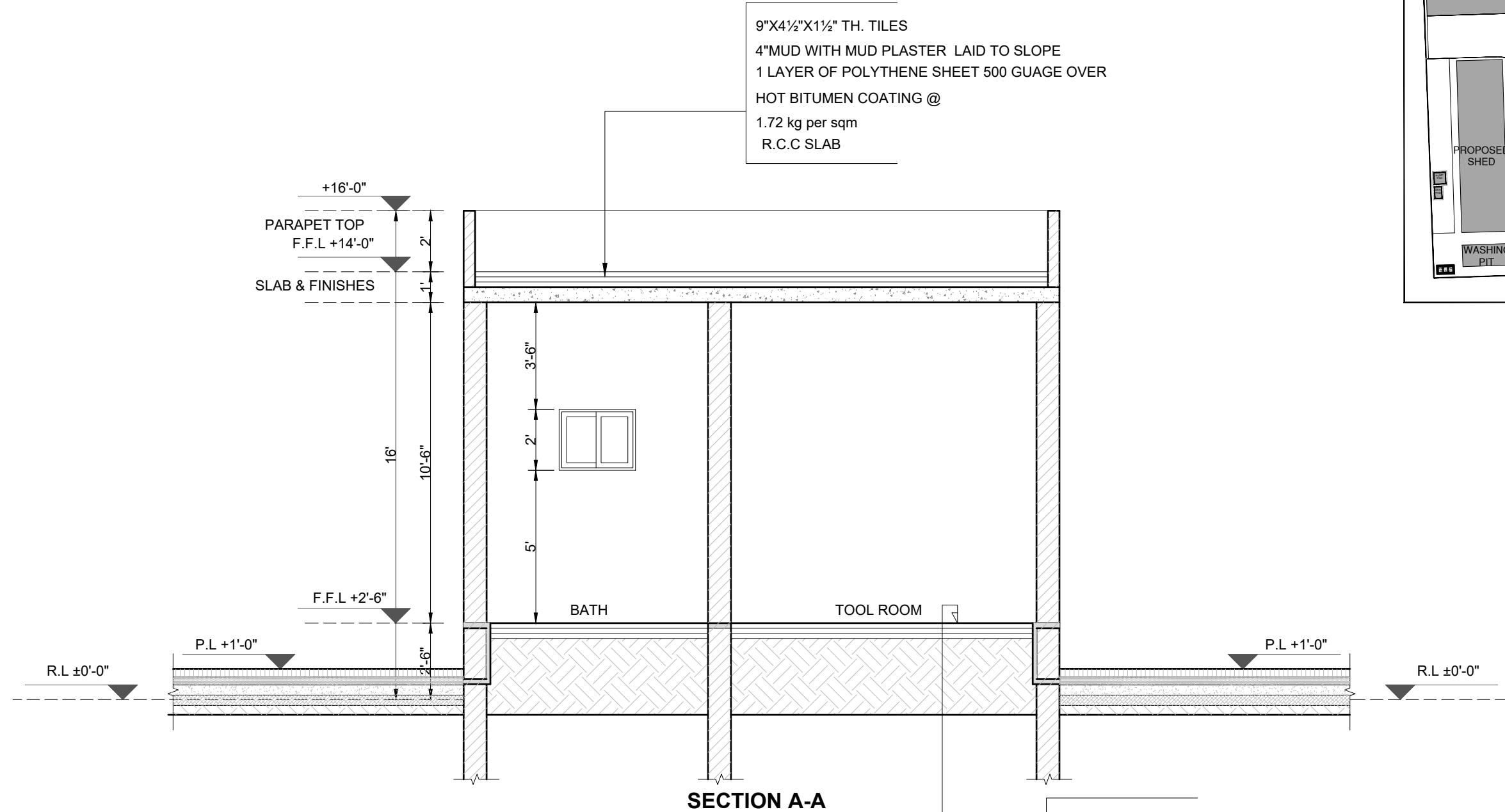
GROUND FLOOR PLAN

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. 291	DRAWING TITLE: GROUND FLOOR PLAN WORKSHOP OKARA	DRAWN BY: Munir	DRAWING NO: A-21												
				CHECKED BY: Sadat Waleed		SCALE: UNIT=FEET 1/4"=1'-0"	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: June, 2022	SHEET: 1 OF 1 JOB NO: 488-01
REV.	DATE	DESCRIPTION															





ROOF PLAN

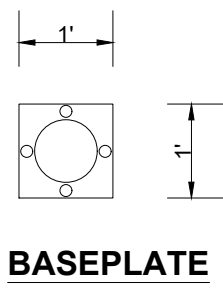
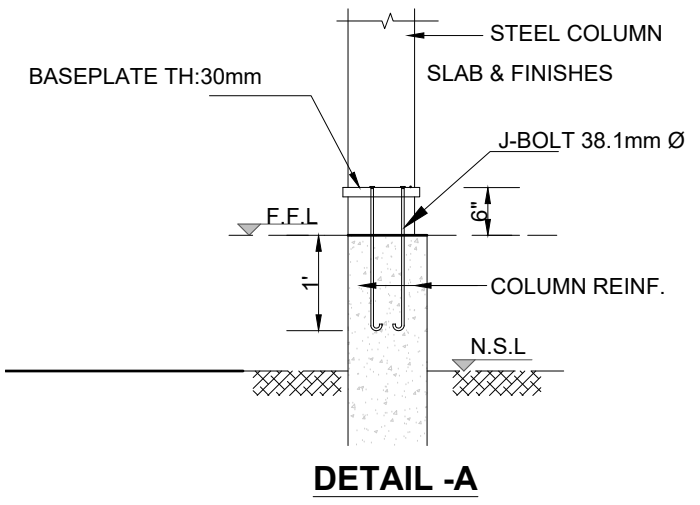
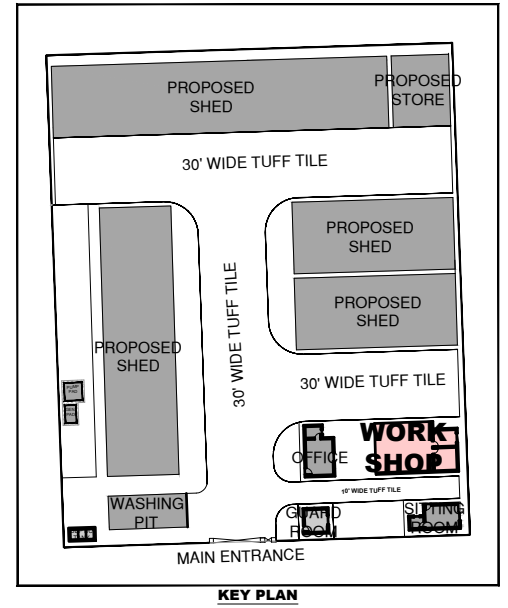
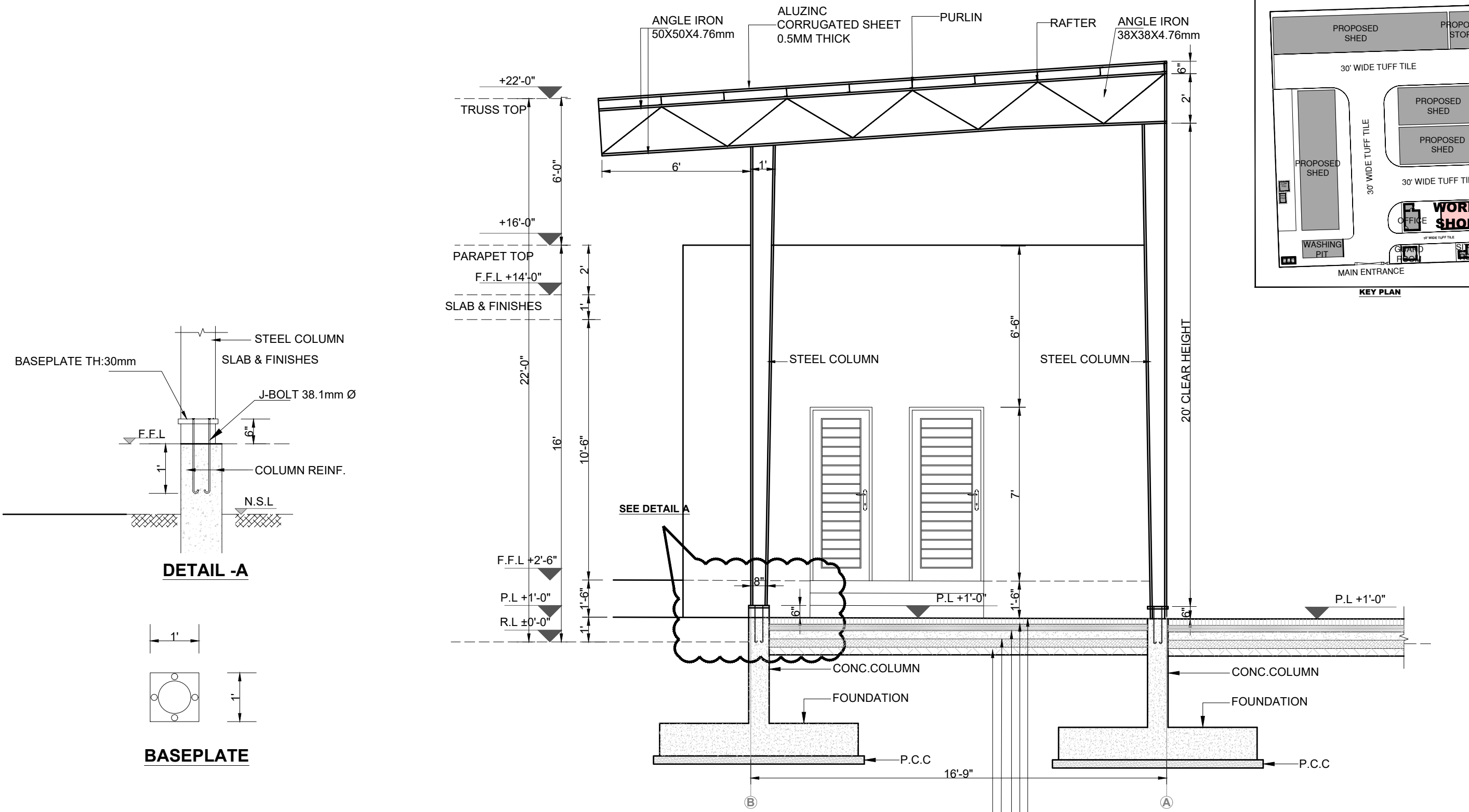
CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 292	DRAWING TITLE: ROOF PLAN WORKSHOP OKARA	REV.	DATE	DESCRIPTION	DRAWN BY: Munir	DRAWING NO: A-22	
				-	-	-	CHECKED BY: Sadat Waleed		SCALE: UNIT=FEET 1/4"=1'-0"
				June, 2022					



SECTION A-A

P.C.C TUFF PAVERS 80mm THICK
 HAVING 7000 PSI GRADING STRENGTH
 OVER 2" THICK SAND
 2" TH.P.C.C 1:2:4
 4" THICK BRICK BALAST
 3" THICK SAND FILLING
 WELL COMPECTED EARTH

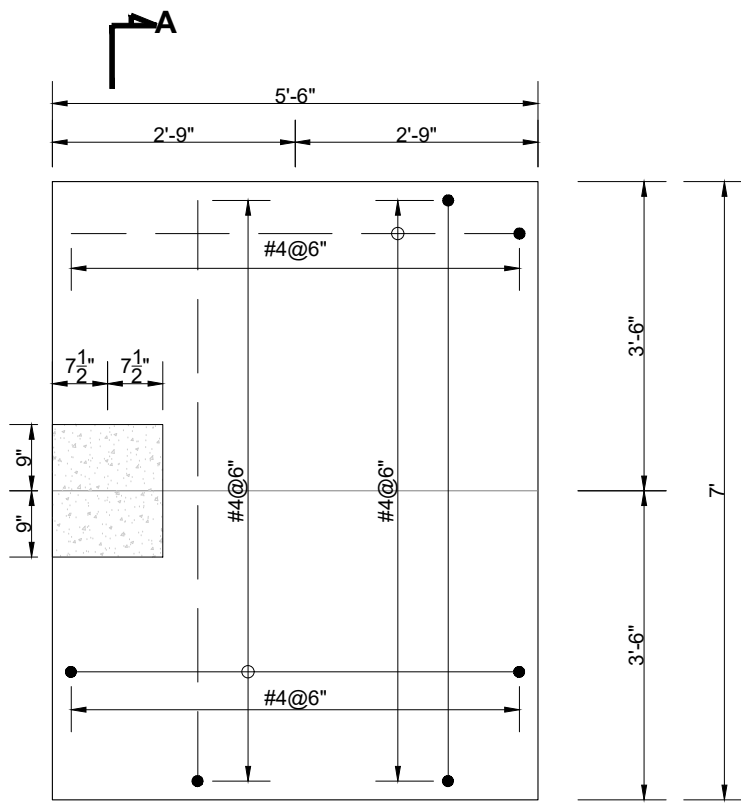
CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 293	DRAWING TITLE: SECTION A-A WORKSHOP OKARA	REV.	DATE	DESCRIPTION	DRAWN BY: Munir	DRAWING NO: A-23
							CHECKED BY: Sadat Waleed	
							DATE: June,2022	



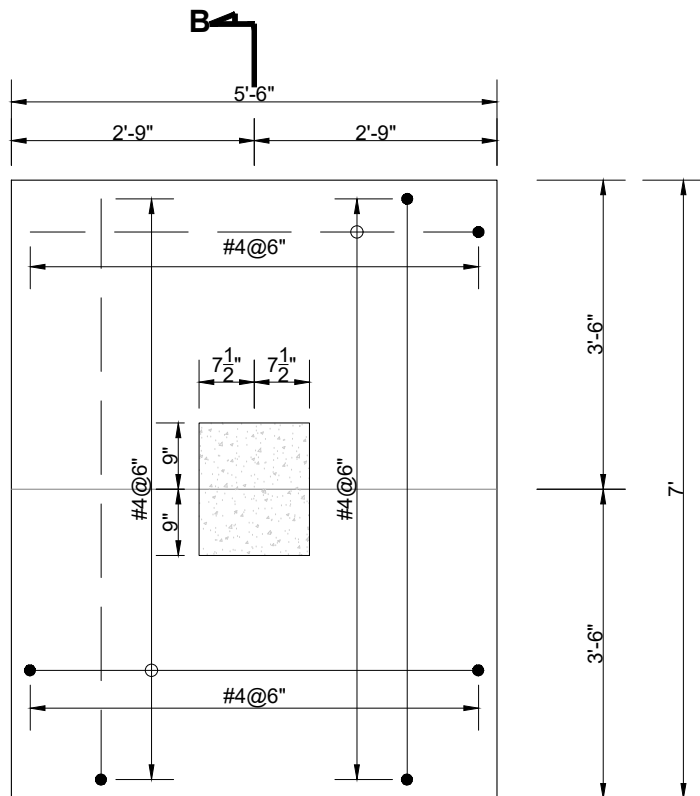
RIGID FRAME SECTIONAL ELEVATION B-B

- 3.15" (80mm) TUFF PAVERS GROUTED WITH SAND
- 2" THICK COMPACTED SAND
- 4" AGGREGATE BASE COURSE
- 4" SUB-BASE COURSE
- SUBGRADE OF MATERIAL HAVING MINIMUM 7% CBR AT 95% MDD

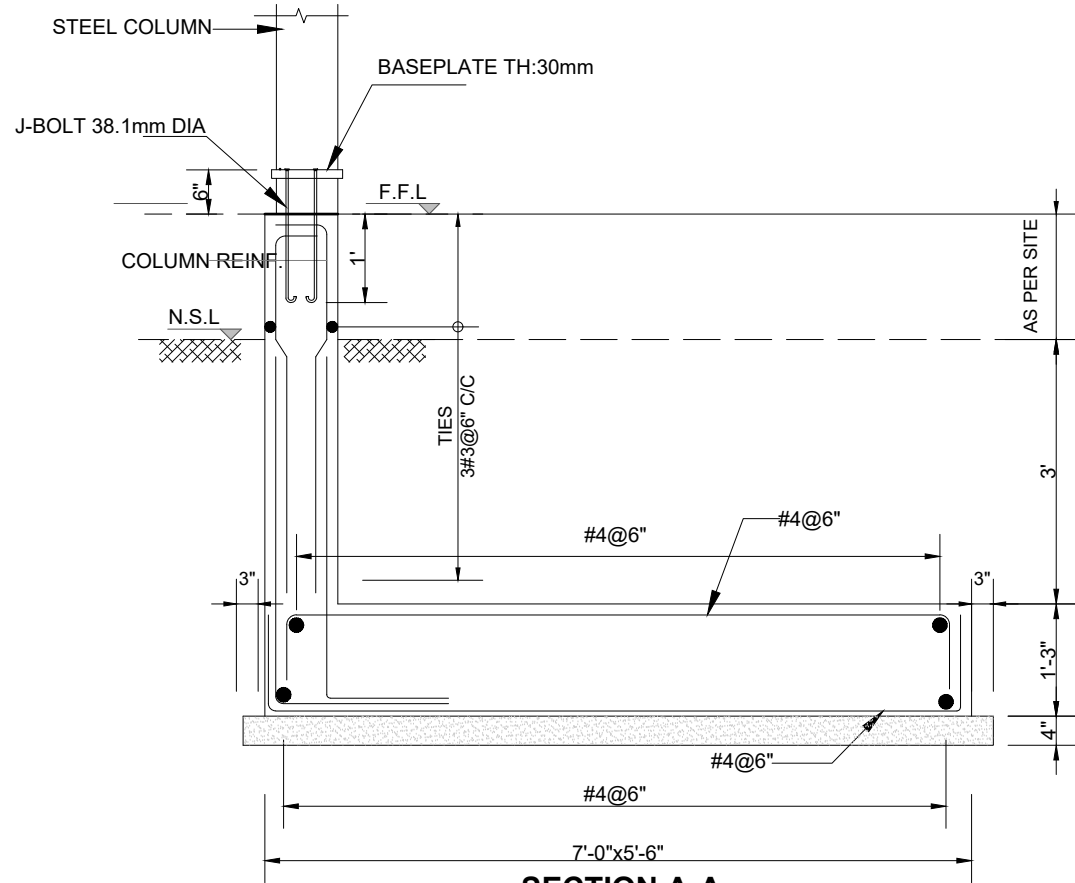
CLIENT: PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS: JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 294	DRAWING TITLE: SECTION B-B WORKSHOP OKARA	DRAWN BY: Munir	DRAWING NO: A-24
				CHECKED BY: Sadat Waleed	
REV. DATE DESCRIPTION				DATE: June, 2022	JOB NO: 488-01



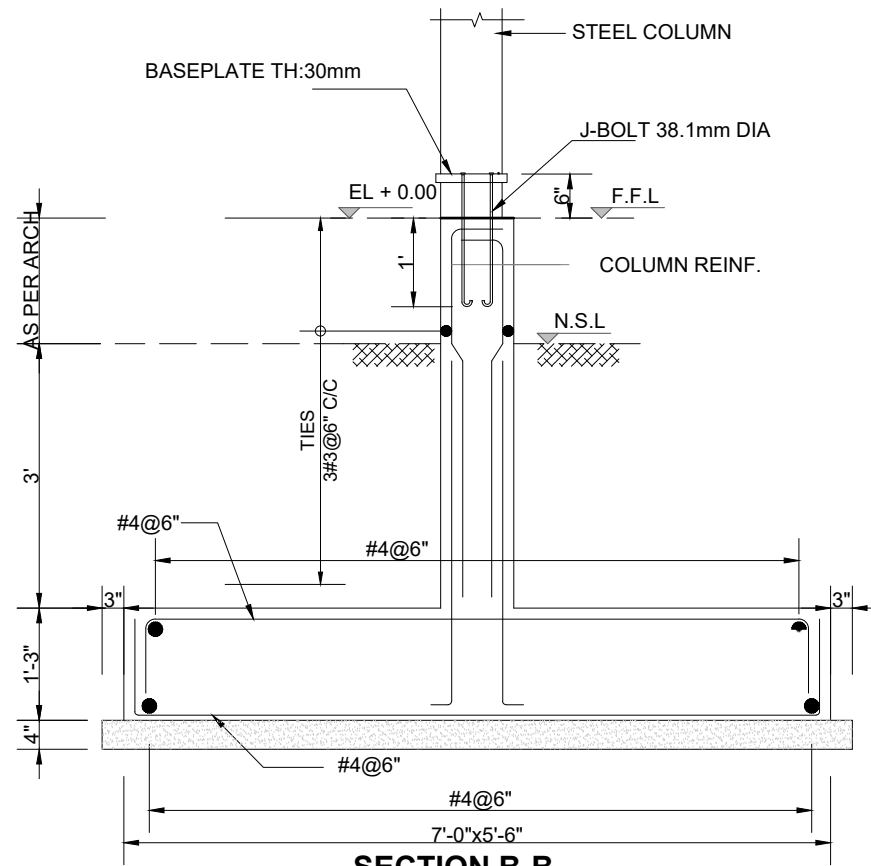
FOOTING F-1



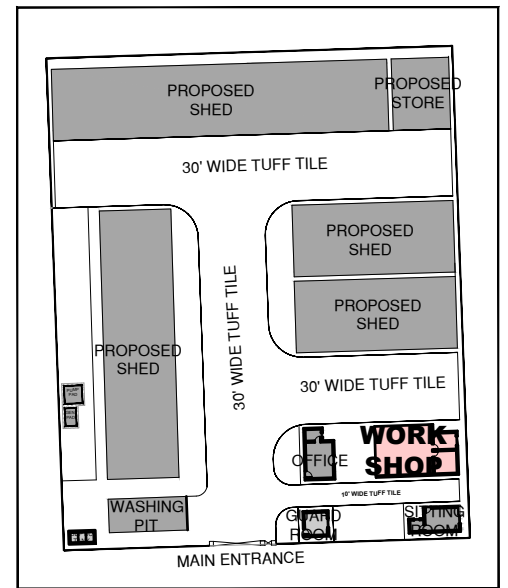
FOOTING F-2



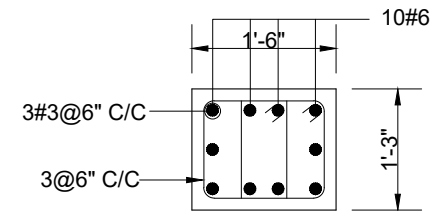
SECTION A-A



SECTION B-B



KEY PLAN



TYPICAL COLUMN C-1

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

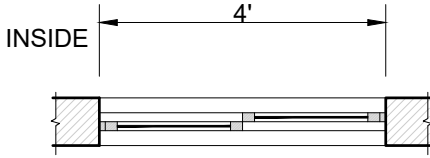
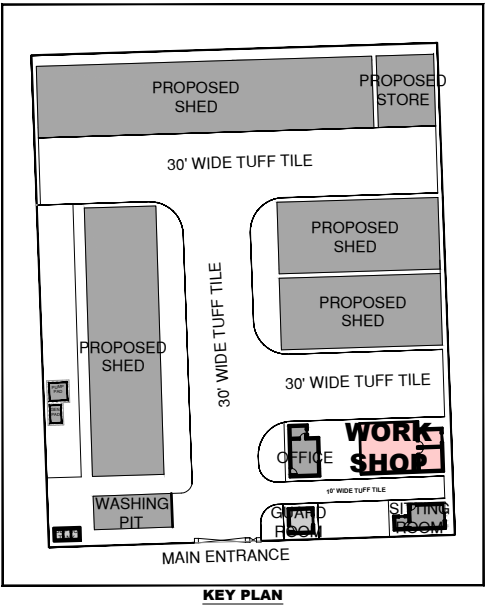
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 295

DRAWING TITLE:
**FOUNDATION DETAIL
 WORKSHOP
 OKARA**

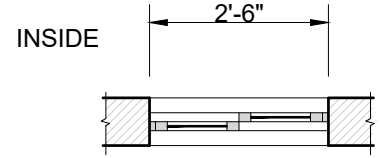
REV.	DATE	DESCRIPTION

DRAWN BY:
Munir
 CHECKED BY:
Sadat Waleed
 DATE:
June, 2022

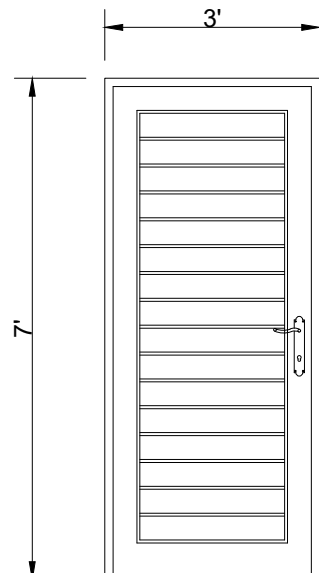
DRAWING NO:
A-25
 SCALE:
UNIT=FEET
1/2"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01



PLAN OF W1

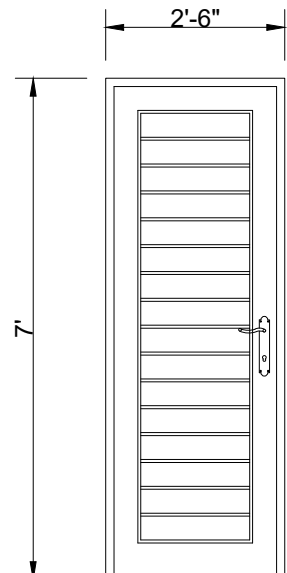


PLAN OF V1



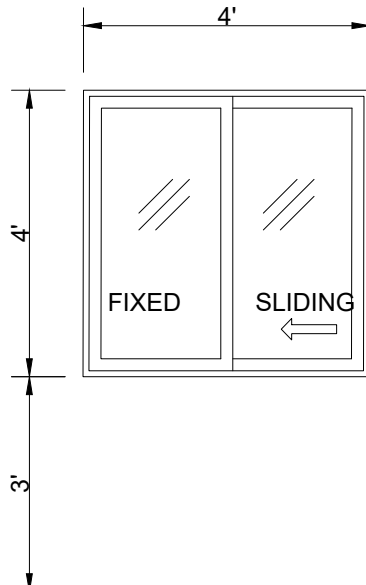
ELEVATION OF D1

SIZE=3'-0"x7'-0"
 QUANTITY= 01 NOS. HOLLOW
 FLUSH DOOR WITH COMMERCIAL
 PLY(3 PLY)



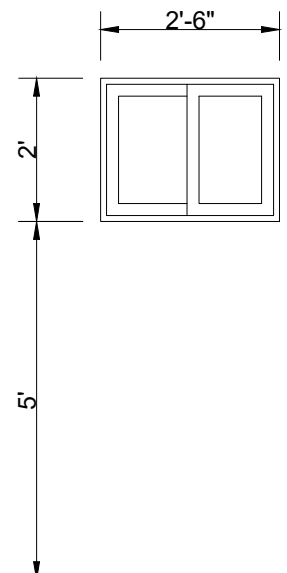
ELEVATION OF D2

SIZE=2'-6"x7'-0"
 QUANTITY= 01 NOS. HOLLOW
 FLUSH DOOR WITH COMMERCIAL
 PLY(3 PLY)



ELEVATION OF W1

SIZE=4'-0"x4'-0"
 QUANTITY= 01 NOS.
 STEEL SLIDING WINDOW,
 FIXED WITH 5MM THICK GLASS
 INCLUDING WIRE GAUZE



ELEVATION OF V1

SIZE=2'-6"x2'-0"
 QUANTITY= 01 NOS.
 STEEL SLIDING WINDOW,
 FIXED WITH 5MM THICK GLASS
 INCLUDING WIRE GAUZE

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. 296	DRAWING TITLE: DOOR WINDOW SCHEDULE WORKSHOP OKARA	REV.	DATE	DESCRIPTION	DRAWN BY: Munir	DRAWING NO: A-26
							CHECKED BY: Sadat Waleed	
							DATE: June,2022	UNIT=FEET 3/8"=1'-0" JOB NO: 488-01

PLUMBING DRAWINGS

LEGEND & NOTES:

WATER SUPPLY, FIRE FIGHTING

LEGEND

COLD WATER PIPE (C.W)	
HOT WATER PIPE (H.W)	
HOT WATER RETURN PIPE (H.W.R)	
FIRE FIGHTING PIPE	
GAS SUPPLY PIPE	
FIRE CABINET	
SPRINKLER	
ISOLATION VAVLE	

NOTES

- ALL WATER SUPPLY PIPE DIAMETERS MENTIONED ARE EXTERNAL DIAMETERS UNLESS OTHERWISE MENTIONED
- PROVIDE ISOLATION (GATE) VALVE ON ALL COLD & HOT WATER SUPPLY LINES AT THE INLET TO EACH TOILET. VALVES SHALL BE INSTALLED AT ACCESSIBLE LOCATIONS
- ALL WATER SUPPLY PIPES ARE POLYPROPYLENE RANDOM PIPE (PPR-PN 20) UNLESS OTHERWISE MENTIONED
- ALL WATER SUPPLY PIPES FITTINGS SUCH AS BENDS, TEES, SOCKETS, ARE PPR (PN 25) UNLESS OTHERWISE MENTIONED
- PROVIDE THERMAL INSULATION ON ALL HOT WATER & HOT WATER RETURN PIPES
- ALL WATER SUPPLY PIPES ARE SUSPENDED ALONG CEILING OR CONCEALED IN WALLS.
- ALL WATER SUPPLY PIPES WITHIN THE BUILDING SHALL RUN AT HIGH LEVEL UNLESS OTHERWISE SPECIFIED
- ALL WCs, WASH BASINS AND SINKS TO BE PROVIDED WITH T STOP COCKS
- CONTRACTOR SHALL VERIFY THE PUMPING FOR ALL PUMPS AS PER THE SITE CONDITION AND SHALL INFORM TO THE ENGINEER FOR ANY VARIATION
- ALL PUMP SHALL BE PROVIDED WITH FLEXIBLE CONNECTOR AT SUCTION AND DISCHARGE
- PROVIDE ISOLATION / STOP COCKS AT ALL GAS CONNECTIONS BURNERS
- FIRE WATER PIPE SHALL BE M.S SCHEDULE 40 UNLESS OTHER WISE MENTIONED
- PROVIDE PRESSURE REDUCING VALVES (PRV) ON HOT & COLD WATER PIPES ABOVE FALSE CEILING IN EACH BATHROOM, KITCHEN, etc WITH INLET PRESSURE AT 120 PSI AND OUT PRESSURE UPTO 30 PSI.

SEWERAGE SYSTEM

LEGEND

WASTE WATER PIPE	
SOIL PIPE	
SEWER PIPE	
4"Ø FLOOR DAIN WITH P- TRAP	
GULLY TRAP	
MANHOLE (3'x3')	

NOTES

- ALL SOIL,WASTE,VENT & DRAINAGE PIPES DIAMETERS MENTIONED ARE NOMINAL DIAMETERS UNLESS OTHERWISE MENTIONED
- ALL SOIL, WASTE AND VENT PIPES ARE uPVC (UNPLASTICSED POLYVINYL CHLORIDE) CLASS B UNLESS OTHERWISE MENTIONED
- ALL MANHOLE COVERS SHALL BE OF HEAVY DUTY CAST IRON
- INVERT LEVELS WILL BE ADJUSTED AS PER SITE CONDITION
- ALL DIAMETERS MENTIONED ARE NOMINAL DIAMETERS
- ALL VERTICAL WC'S & URINALS WILL BE PROVIDED WITH MUSLIM SHOWER
- ALL RAIN WATER DISPOSAL PIPES SHALL BE OF uPVC CLASS-B & HORIZONTAL (ON LOWER FLOOR) SHALL BE uPVC CLASS D.
- THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS
- ALL SEWEEAGE PIPING FROM FIXTURES TO MANHOLES AND GULLY TRAPS SHALL BE OF uPVC
- ALL CLEAN OUTS & FLOOR DRIANS SHALL BE COORDINATE WITH INTERIOR
- 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)

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

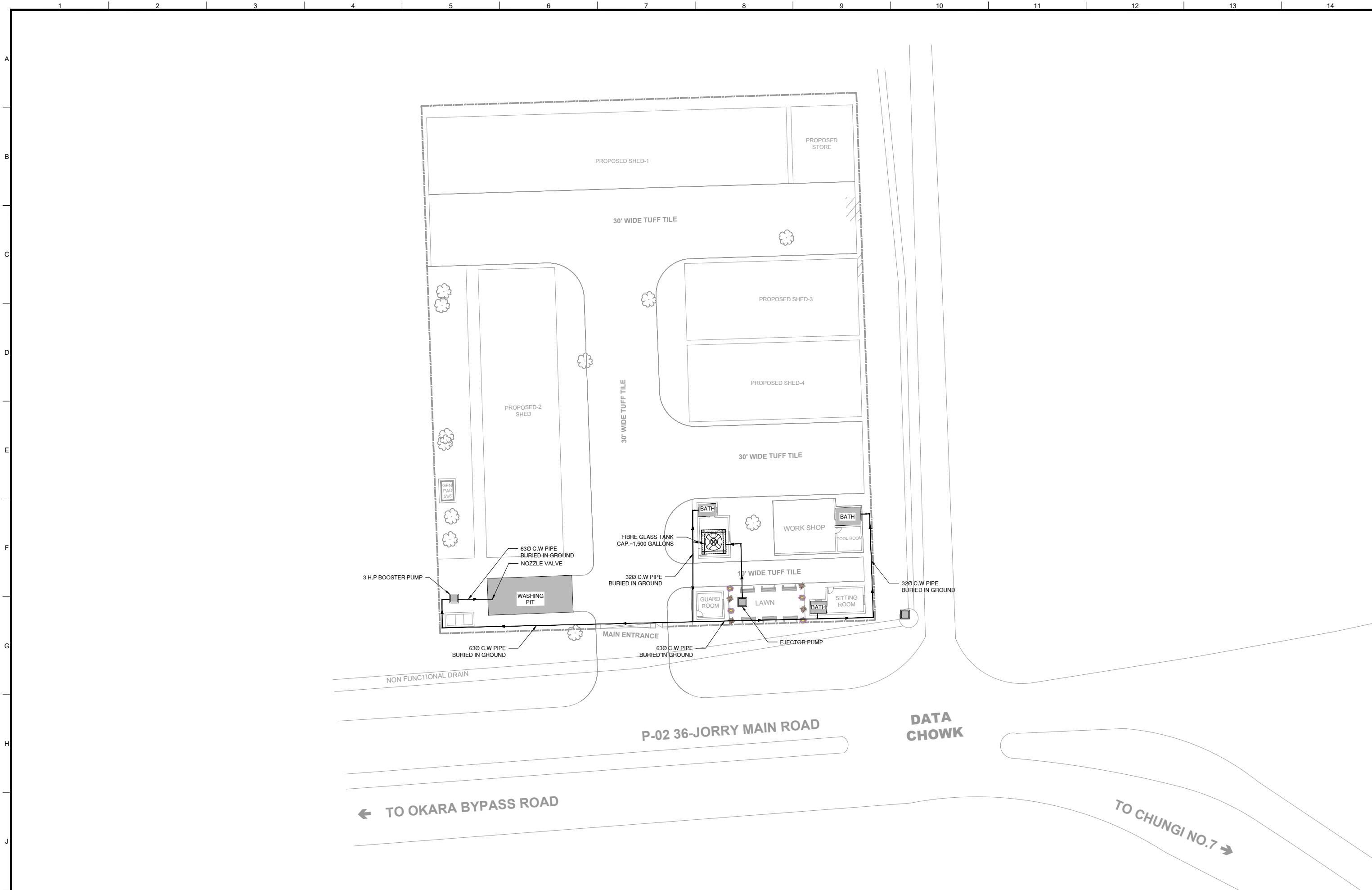
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 298

DRAWING TITLE:
LEGEND & NOTES OKARA


REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY: Mahad
 CHECKED BY: Khadija
 DATE: JUNE,2022
 DRAWING NO: **G-00**
 SCALE: 1/4"=1'-0"
 SHEET: 1 OF 1
 JOB NO: 488-01

WATER SUPPLY



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:

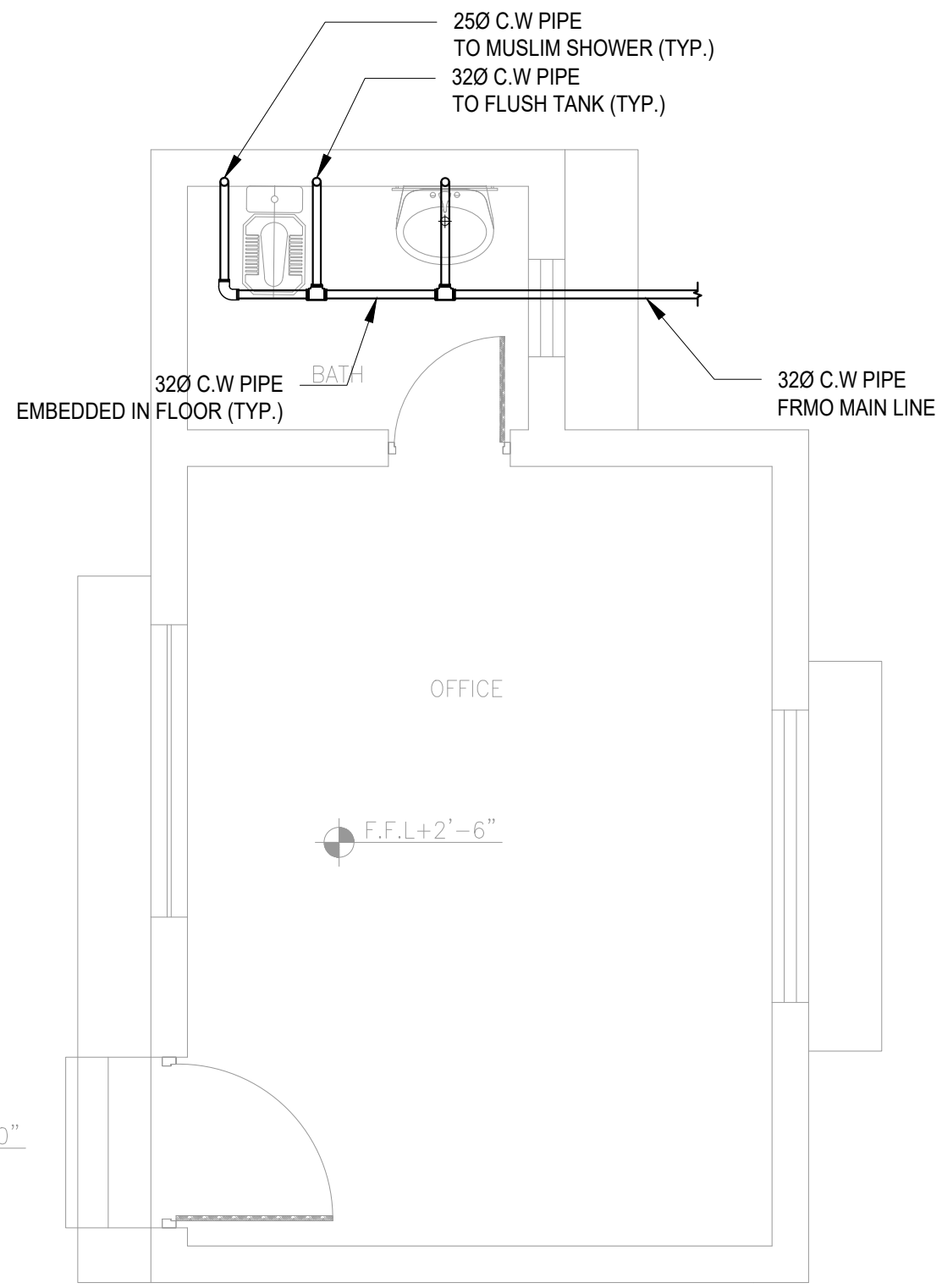
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 300

DRAWING TITLE:

**PROPOSED SWM PARKING SHED,
 EXTERNAL WATER SUPPLY SYSTEM
 (OKARA CITY)**



REV.	DATE	DESCRIPTION
-	-	-

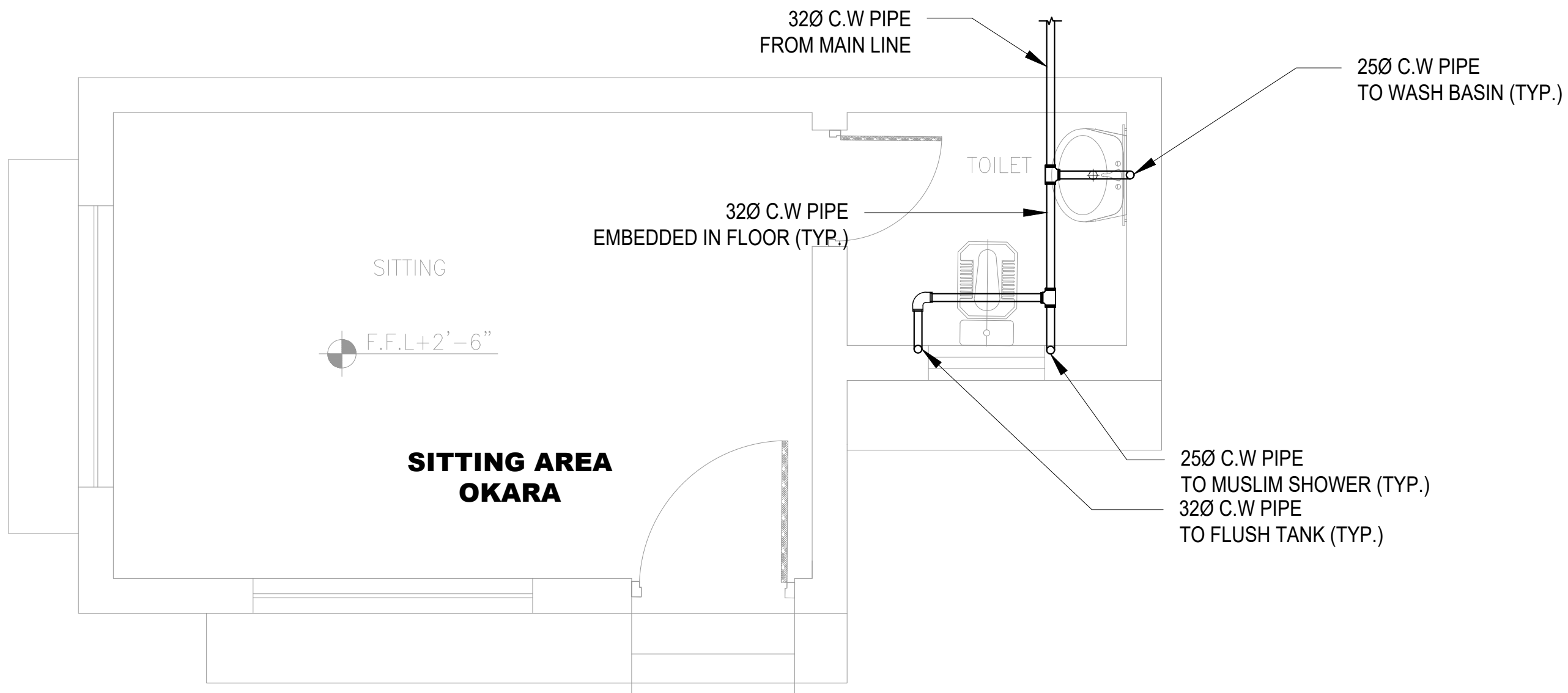
DRAWN BY: M.DANISH	DRAWING NO: W-01
CHECKED BY: KHADIJA ARIF	
DATE: June,2022	SCALE: UNIT=FEET
	SHEET: JOB NO: 488-01



**OFFICE BLOCK
OKARA**



GROUND FLOOR PLAN

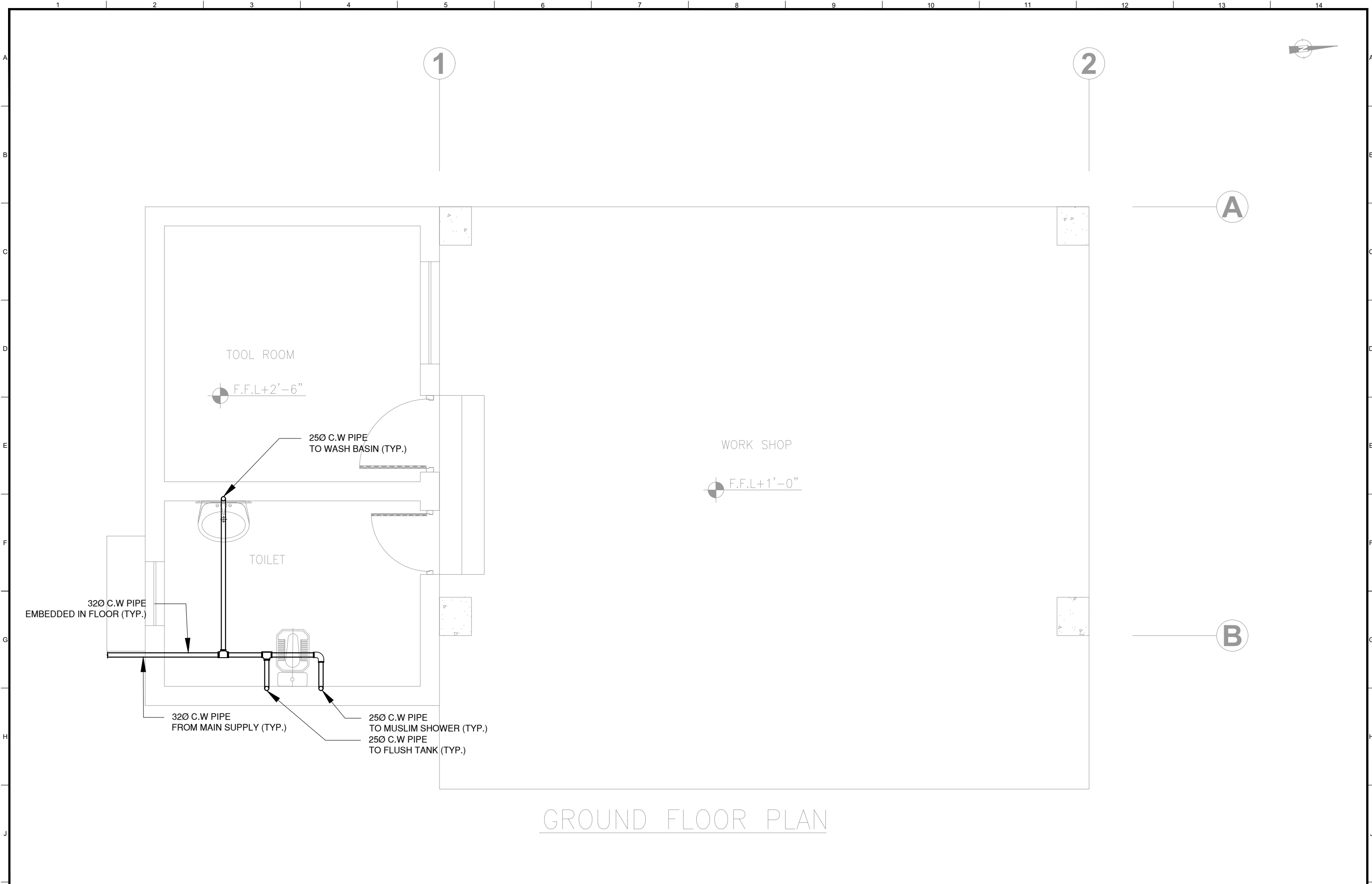
CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 301	DRAWING TITLE: WATER SUPPLY LAYOUT PLAN OFFICE BLOCK OKARA	DRAWN BY: M.DANISH	DRAWING NO: W-02						
				CHECKED BY: KHADIJA ARIF		SCALE: 1/4"=1'-0"	SHEET: 1 OF 1				
<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> </tbody> </table>				REV.	DATE	DESCRIPTION	-	-	-	DATE: June, 2022	JOB NO: 488-01
REV.	DATE	DESCRIPTION									
-	-	-									



GROUND FLOOR PLAN


F.F.L+1'-0"

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. 302	DRAWING TITLE: WATER SUPPLY GROUND FLOOR SITTING AREA OKARA	REV.	DATE	DESCRIPTION	DRAWN BY: M.DANISH	DRAWING NO: W-03
				-	-	-	CHECKED BY: KHADIJA ARIF	
							DATE: June, 2022	



GROUND FLOOR 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. 303

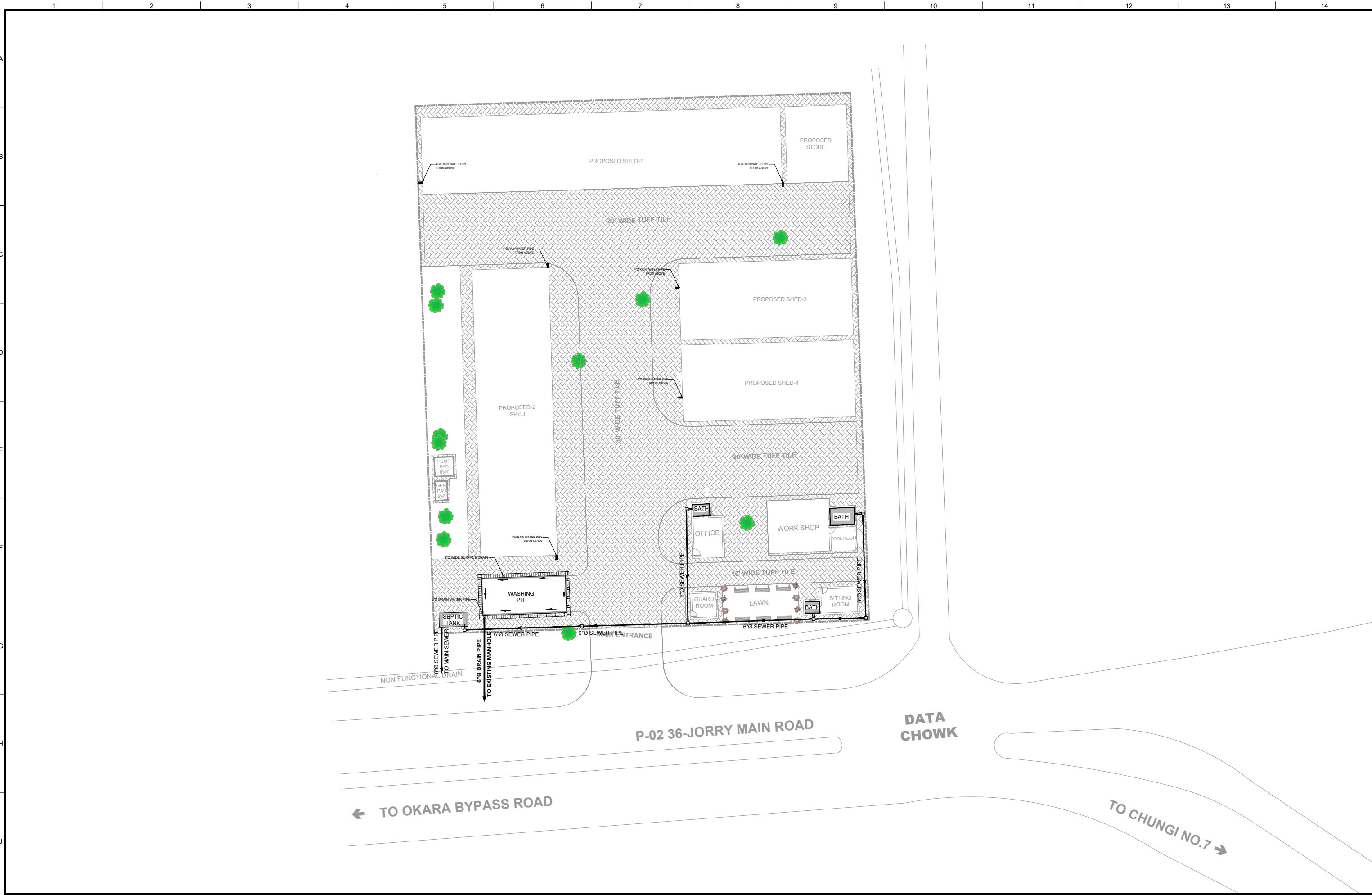
DRAWING TITLE:



GROUND FLOOR WATER SUPPLY LAYOUT WORKSHOP OKARA

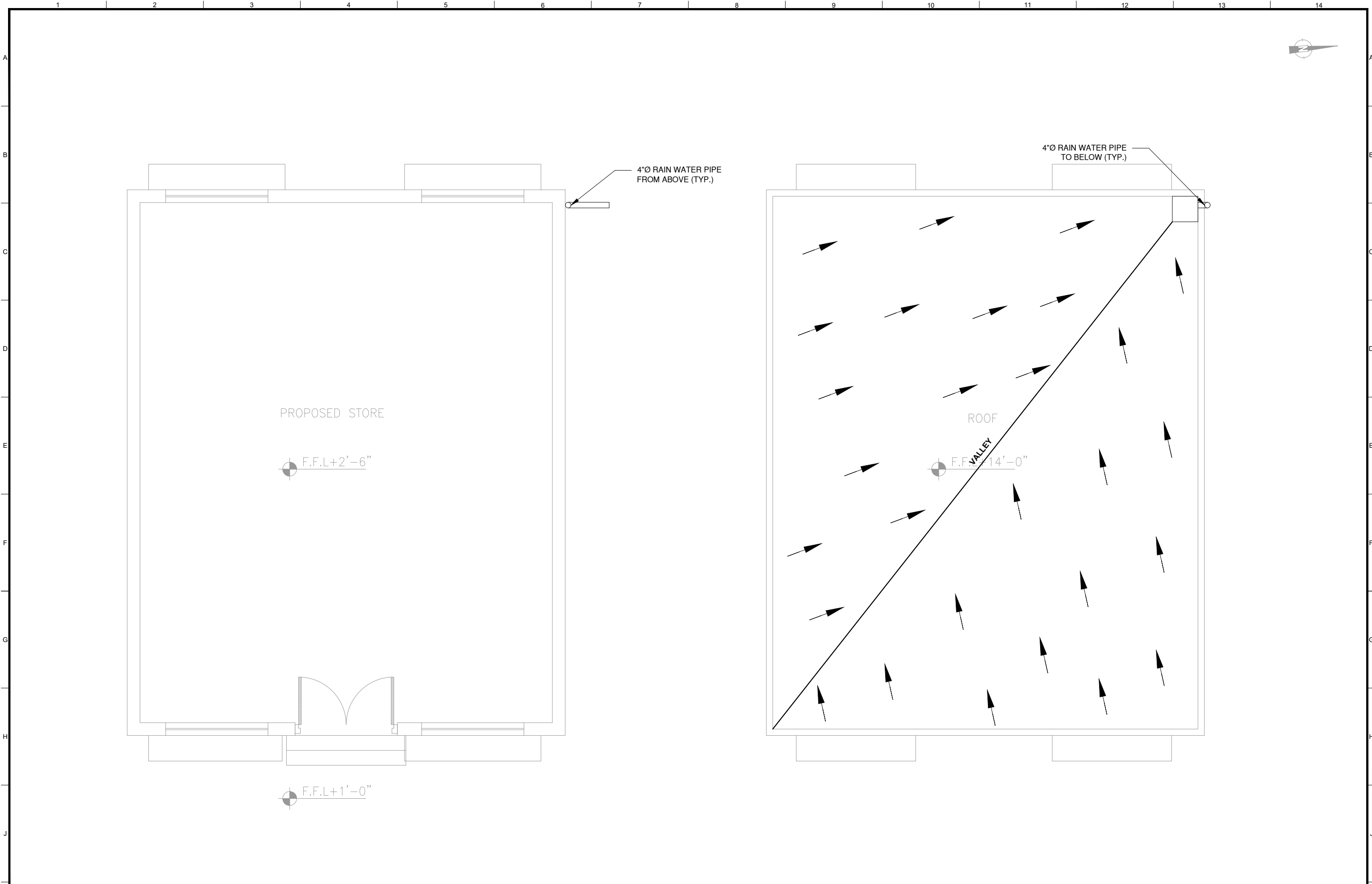
REV.	DATE	DESCRIPTION
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-	-	-
-	-	-
-	-	-

DRAWN BY: Mahad	DRAWING NO: W-04
CHECKED BY: Khadija	
DATE: JUNE,2022	SCALE: 1/4"=1'-0"
	SHEET: 1 OF 1 JOB NO: 488-01

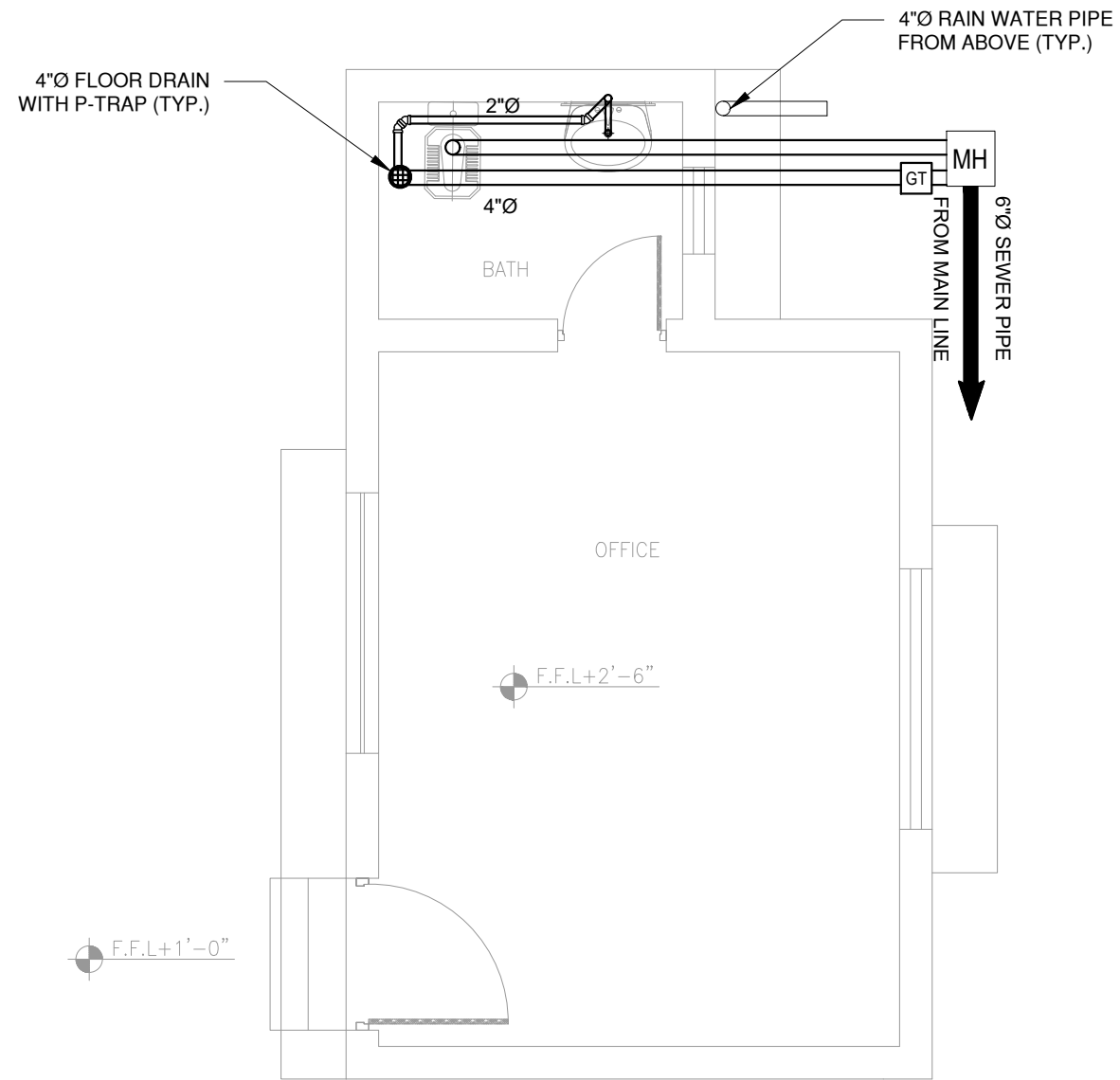
SEWERAGE



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. 305	DRAWING TITLE: PROPOSED SWM PARKING SHED, SEWER SYSTEM (OKARA CITY)	DRAWN BY: M.DANISH	DRAWING NO: S-01
				CHECKED BY: KHADIJA ARIF	
REV. DATE DESCRIPTION				DATE: June,2022	JOB NO: 488-01

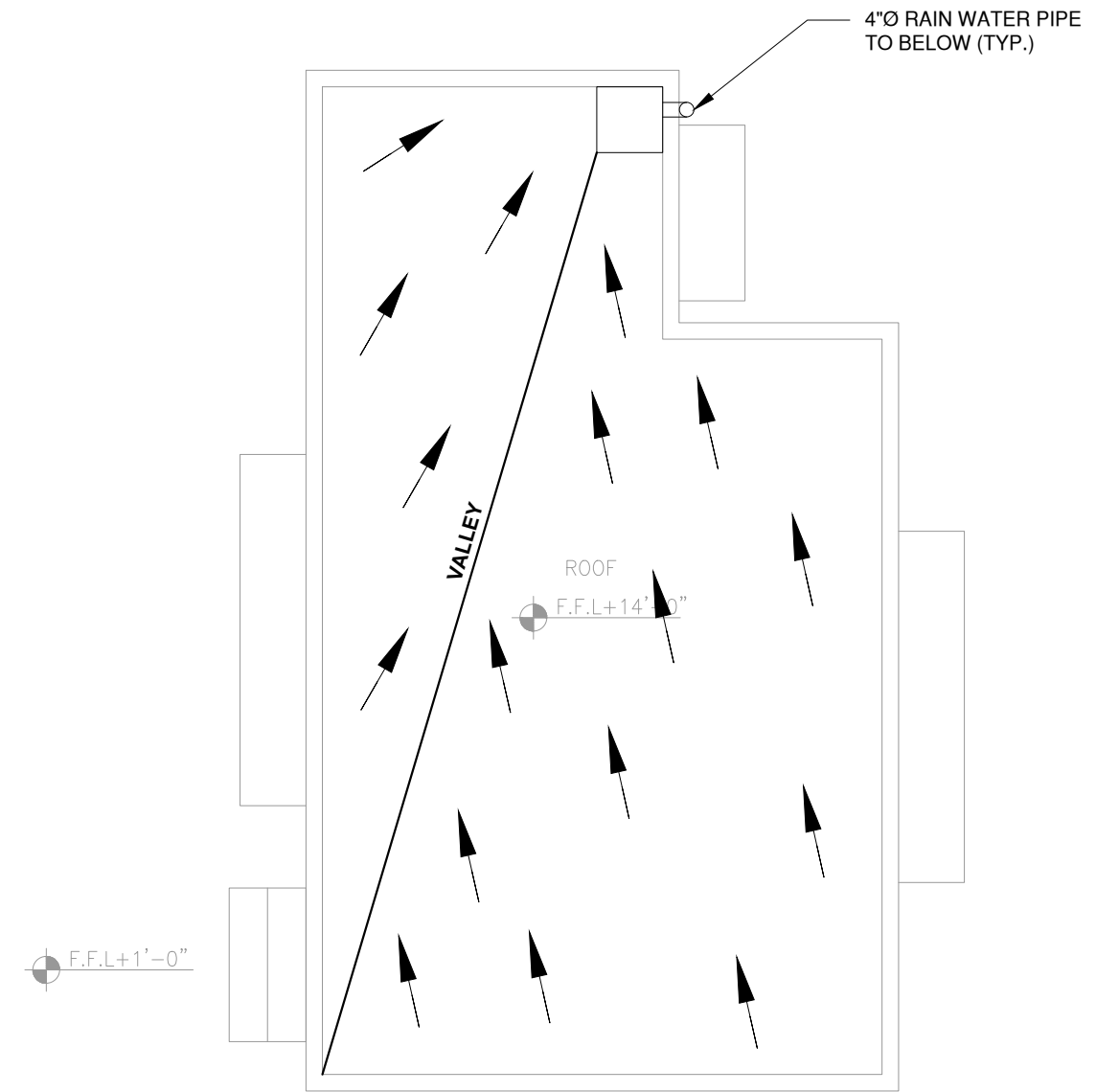


CLIENT: PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS: JERS CONSULTANCY (PVT) LTD <small>24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk</small>	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 306	DRAWING TITLE: SEWER SYSTEM GROUND FLOOR & ROOF PLAN PROPOSED STORE OKARA	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:5%;">REV.</th> <th style="width:5%;">DATE</th> <th style="width:90%;">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: M.DANISH CHECKED BY: KHADIJA ARIF DATE: June,2022	DRAWING NO: S-02 SCALE: 1/8"=1'-0" SHEET: 1 OF 1 JOB NO: 488-01
REV.	DATE	DESCRIPTION																			



**OFFICE BLOCK
OKARA**

GROUND FLOOR PLAN



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

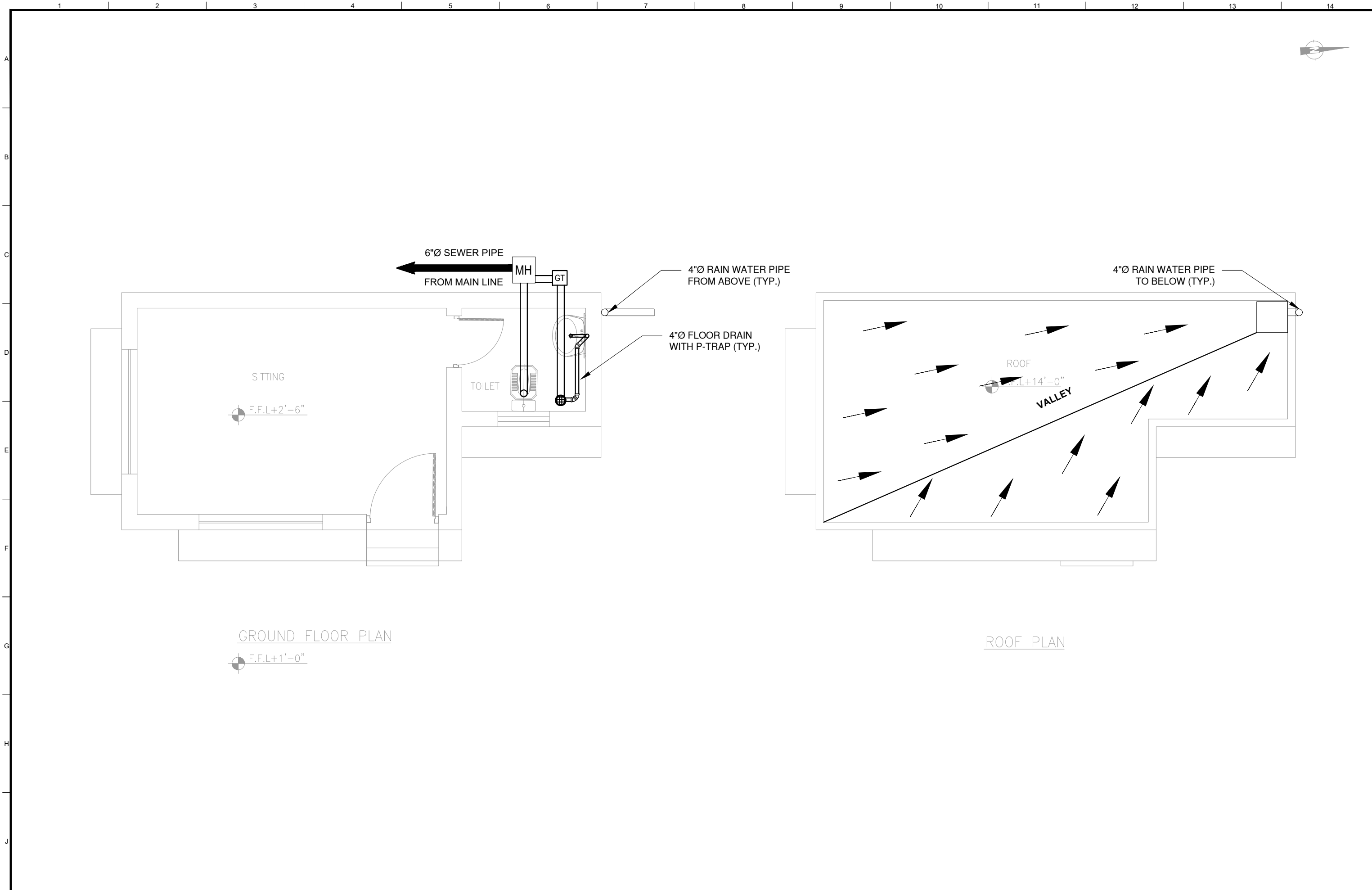
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 307



DRAWING TITLE:
**SEWER SYSTEM GROUND &
ROOF LAYOUT PLAN
OFFICE BLOCK
OKARA**

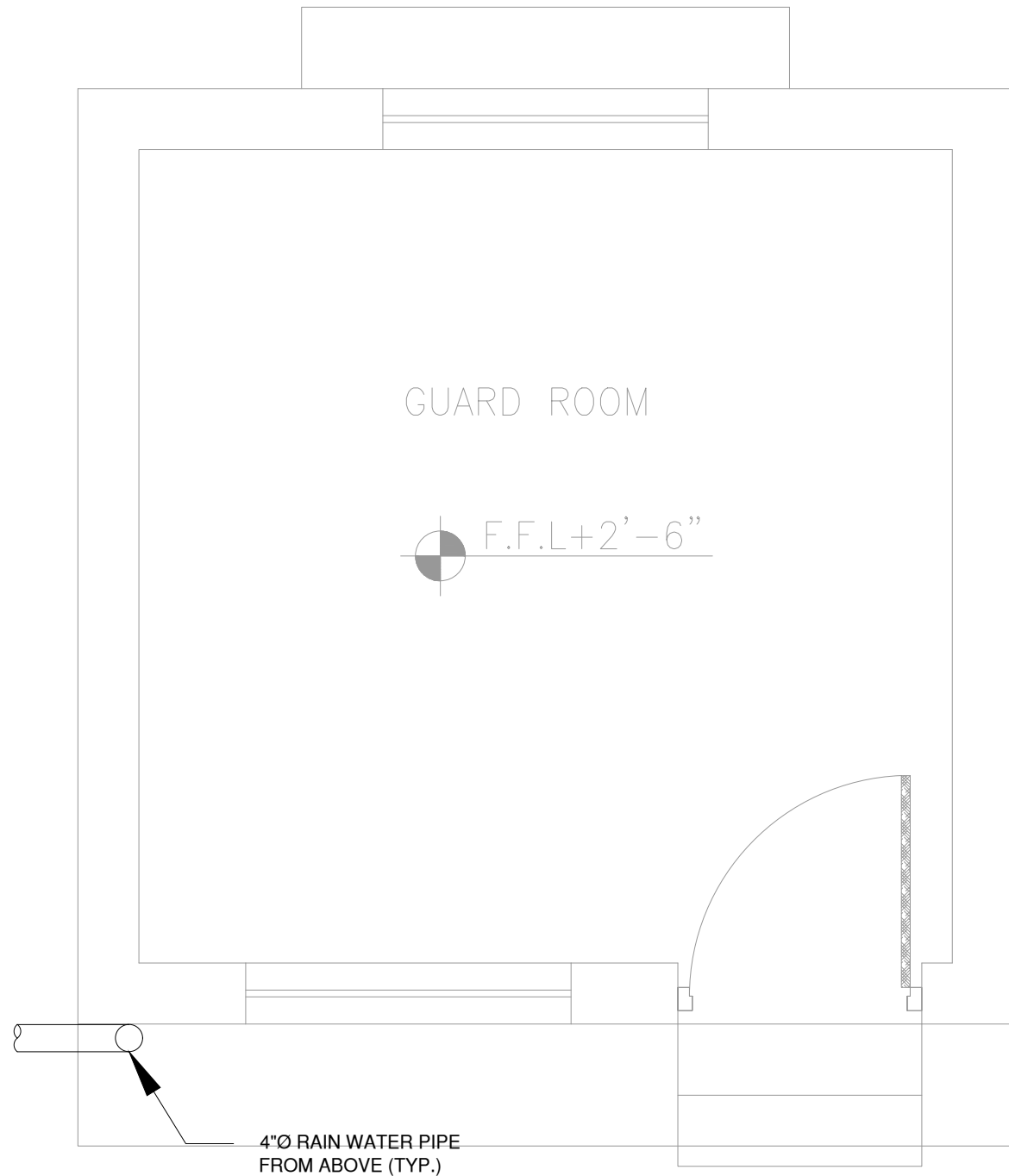
REV.	DATE	DESCRIPTION

DRAWN BY:
M.DANISH
 CHECKED BY:
KHADIJA ARIF
 DATE:
June, 2022

DRAWING NO:
S-03
 SCALE:
1/4"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01

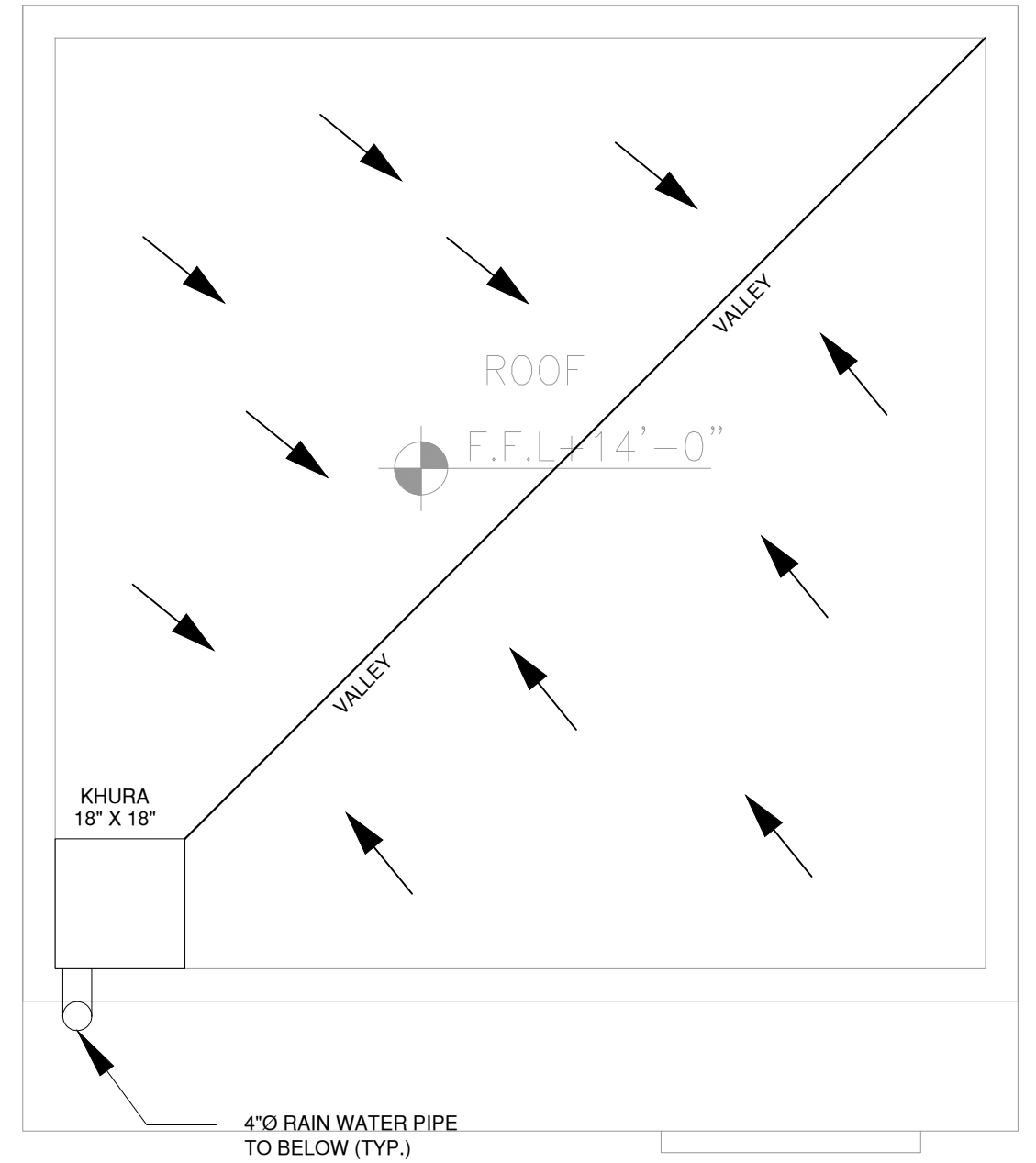


CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 308	DRAWING TITLE: SEWER SYSTEM GROUND FLOOR & ROOF PLAN SITTING AREA OKARA	DRAWN BY: M.DANISH	DRAWING NO: S-04						
				CHECKED BY: KHADIJA ARIF		SCALE: UNIT=FEET 3/16"=1'-0"	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> </tbody> </table>				REV.	DATE	DESCRIPTION	-	-	-	DATE: June, 2022	
REV.	DATE	DESCRIPTION									
-	-	-									



GROUND FLOOR PLAN

F.F.L+1'-0"



ROOF PLAN

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

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
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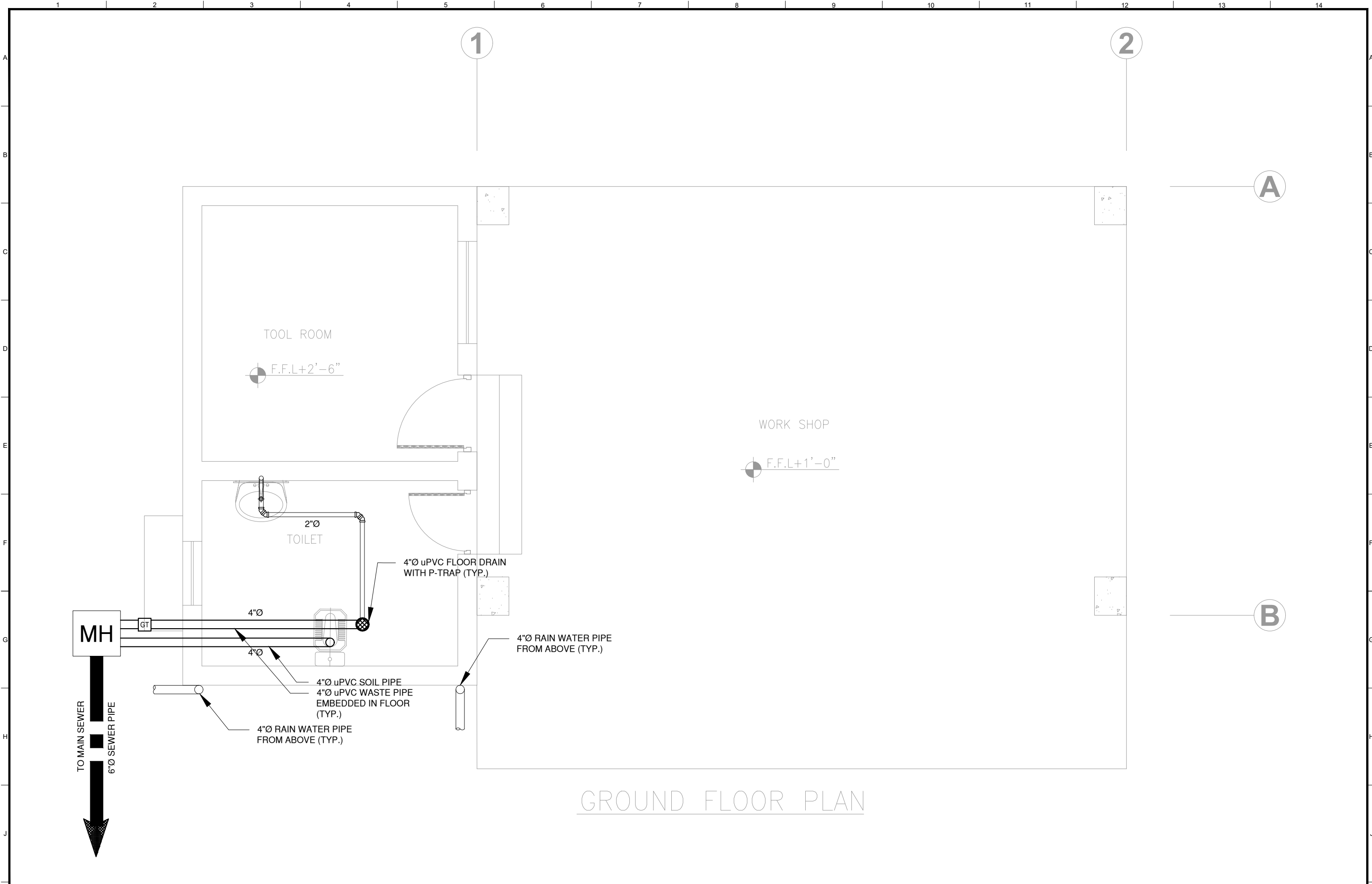
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 309

DRAWING TITLE:
**GROUND FLOOR & ROOF PLAN
 GUARD ROOM DRAINAGE
 LAYOUT
 OKARA**



REV.	DATE	DESCRIPTION
-	-	-

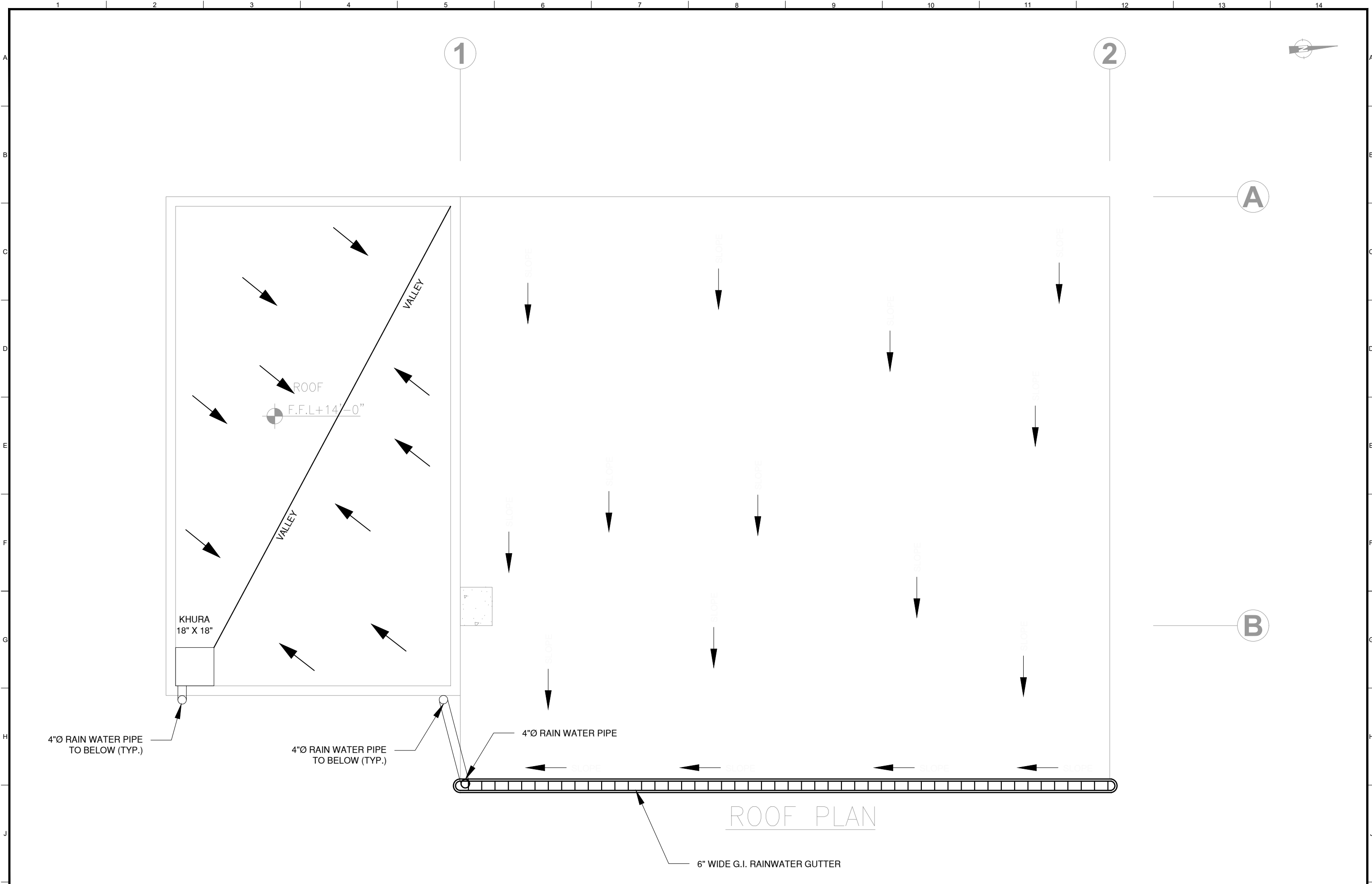
DRAWN BY:
Mahad
 CHECKED BY:
Khadija
 DATE:
JUNE,2022



DRAWING NO:
S-05
 SCALE:
1/4"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01

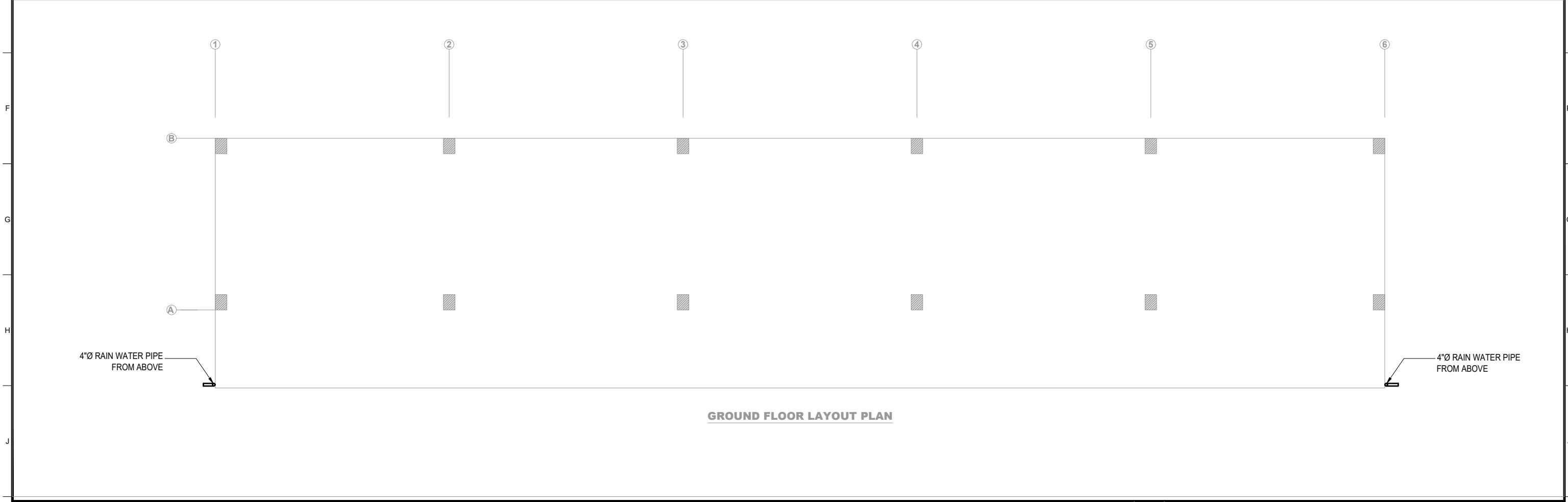
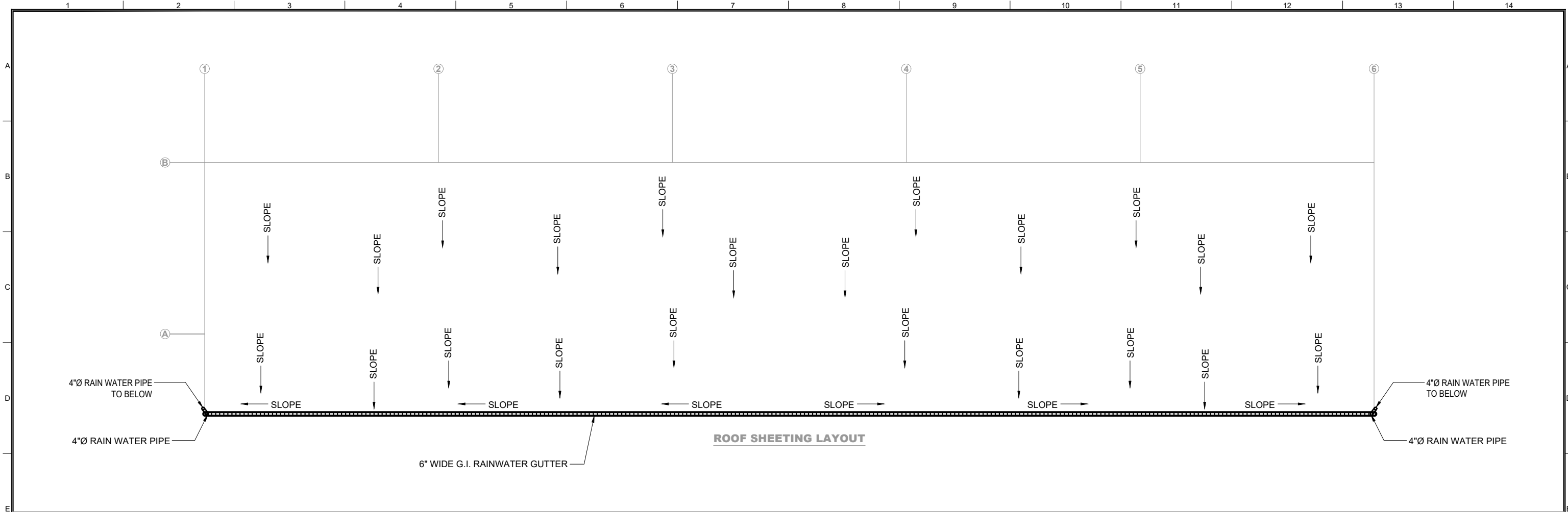




GROUND FLOOR PLAN

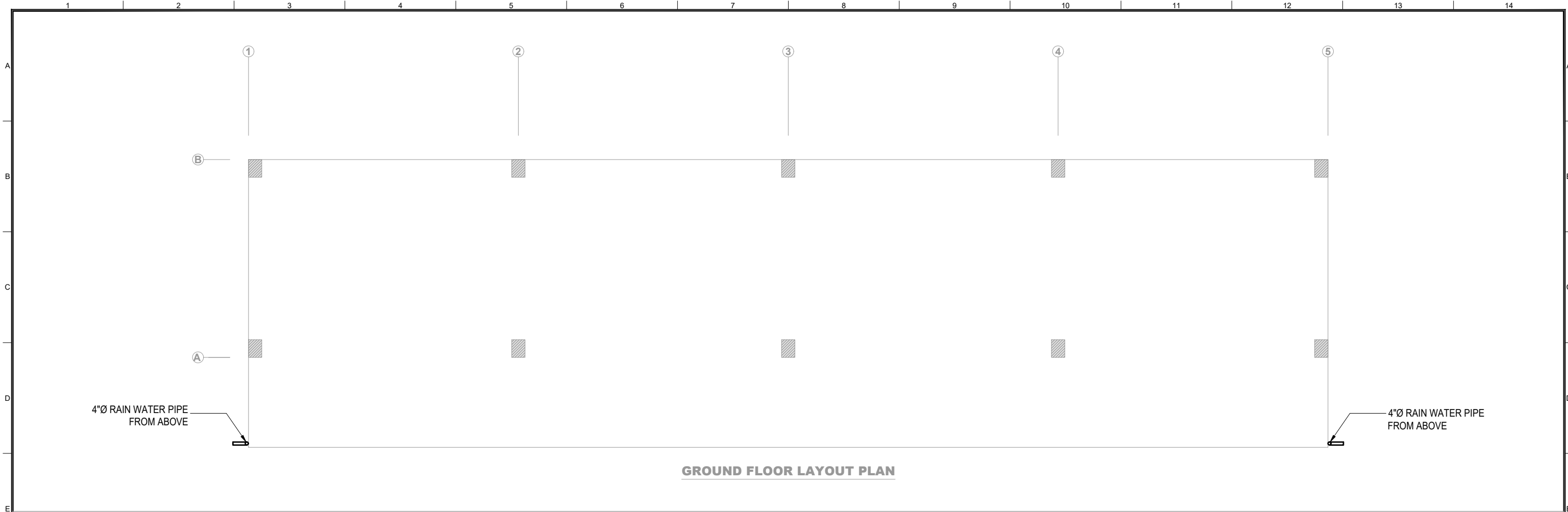
CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 310	DRAWING TITLE: GROUND FLOOR SEWER SYSTEM LAYOUT WORKSHOP OKARA	DRAWN BY: Mahad	DRAWING NO: S-06
				CHECKED BY: Khadija	
REV. DATE DESCRIPTION				DATE: JUNE,2022	SHEET: 1 OF 1 JOB NO: 488-01



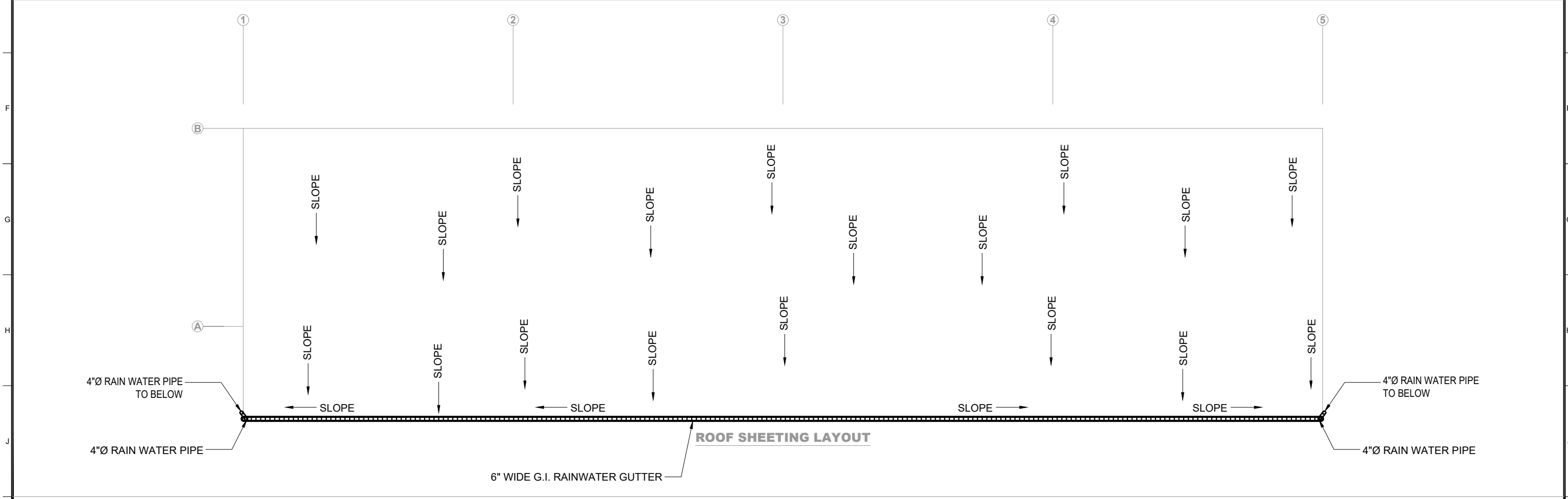
CLIENT:  PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)	CONSULTANTS:  JERS CONSULTANCY (PVT) LTD 24-Civic Center, Quaid-e-Azam Town, Township, Lahore (Pakistan) Tel: +92 42 35113123, +92 42 35113124 Fax: +92 42 35113125 E-mail: info@jers.com.pk, mail@jers.com.pk Web: http://www.jers.com.pk	PROJECT: PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 311	DRAWING TITLE: ROOF PLAN SEWER SYSTEM LAYOUT WORKSHOP OKARA	DRAWN BY: Mahad	DRAWING NO: S-07						
				CHECKED BY: Khadija		SCALE: UNIT=FEET 1/4"=1'-0"	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> </tbody> </table>				REV.	DATE	DESCRIPTION	-	-	-	DATE: JUNE,2022	
REV.	DATE	DESCRIPTION									
-	-	-									



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. 312	DRAWING TITLE: GROUND FLOOR & ROOF DRAINAGE LAYOUT PLAN PARKING SHED-1 OKARA	DRAWN BY: M.DANISH	DRAWING NO: D-01
				CHECKED BY: KHADIJA ARIF	
				DATE: June,2022	JOB NO: 488-01
REV.	DATE	DESCRIPTION			

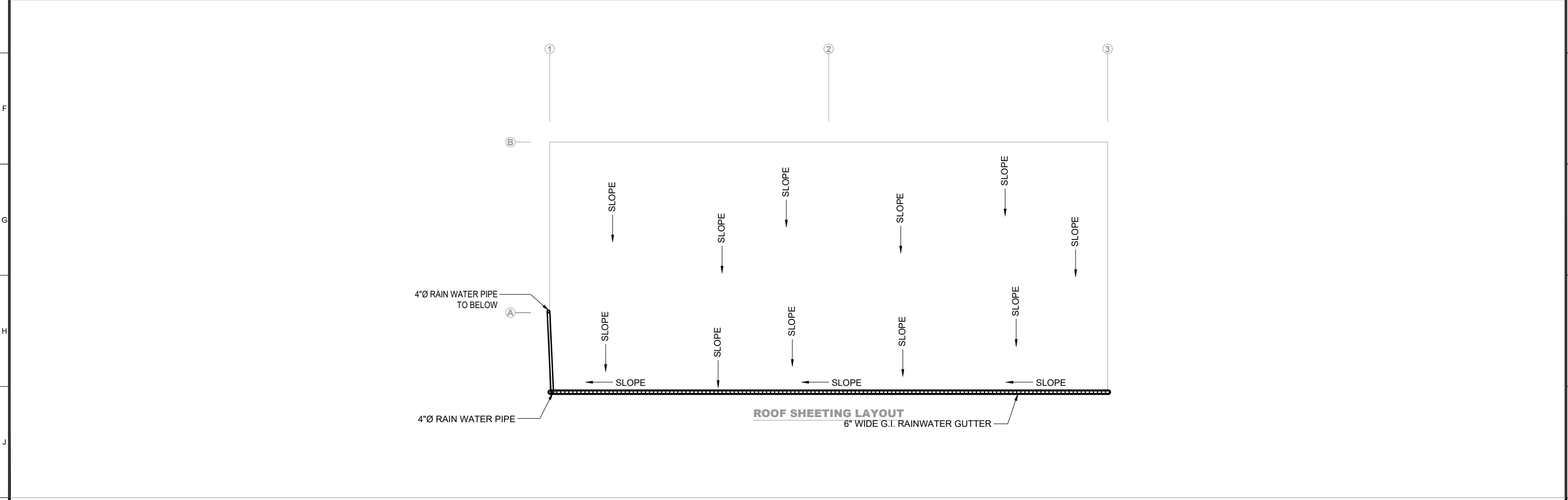
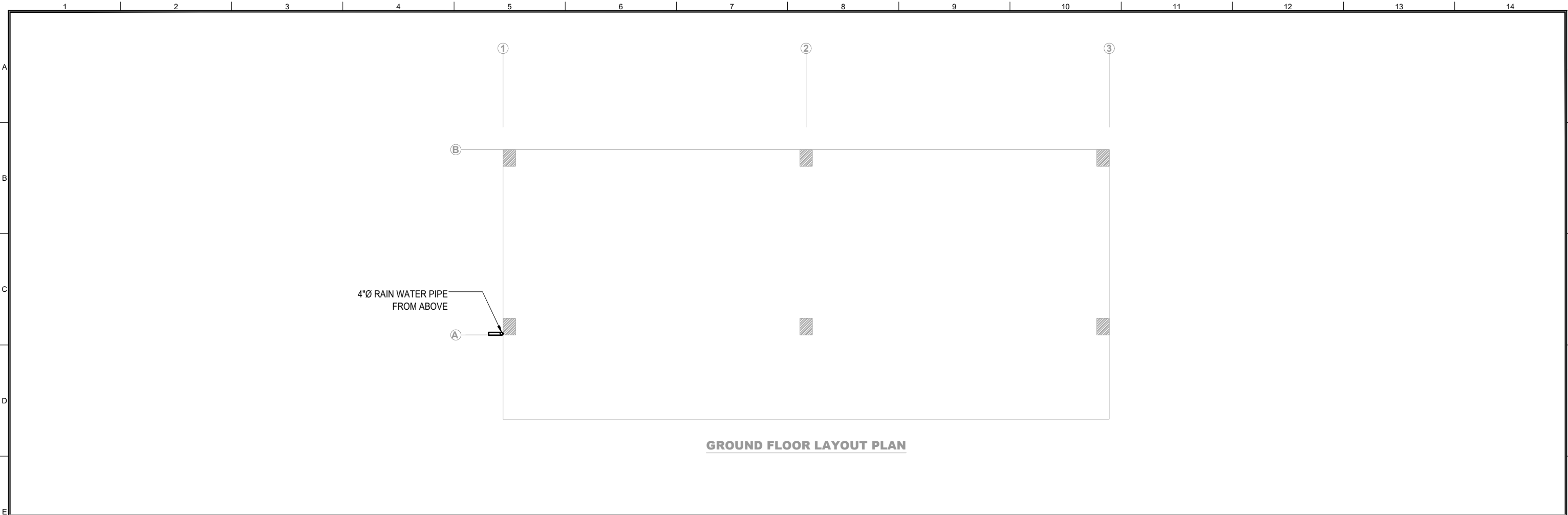


GROUND FLOOR LAYOUT PLAN

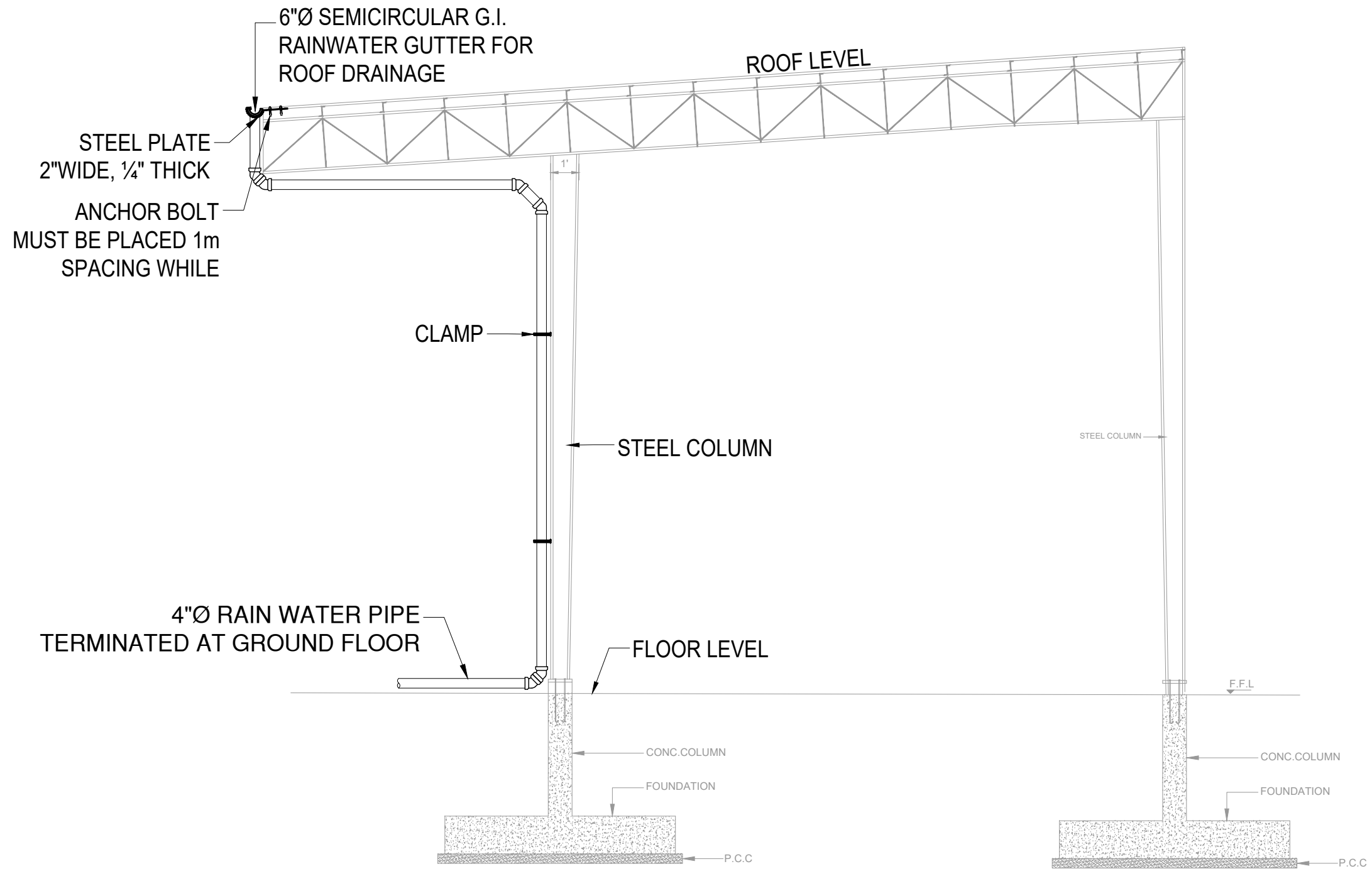


ROOF SHEETING LAYOUT

<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>PUNJAB CITIES PROGRAM (PCP) DETAILED DESIGN OF INFRASTRUCTURE SUB-PROJECTS AND RESIDENTS SUPERVISION IN 16 CITIES OF PUNJAB. 313</p>	<p>DRAWING TITLE:</p> <p>GROUND FLOOR & ROOF DRAINAGE LAYOUT PLAN PARKING SHED-2 OKARA</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> </tbody> </table>	REV.	DATE	DESCRIPTION										<p>DRAWN BY:</p> <p>M.DANISH</p> <p>CHECKED BY:</p> <p>KHADIJA ARIF</p> <p>DATE:</p> <p>June,2022</p>	<p>DRAWING NO:</p> <p>D-02</p> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>SCALE:</td> <td>SHEET:</td> </tr> <tr> <td>UNIT=FEET</td> <td>-</td> </tr> <tr> <td>JOB NO:</td> <td>488-01</td> </tr> </table>	SCALE:	SHEET:	UNIT=FEET	-	JOB NO:	488-01
REV.	DATE	DESCRIPTION																						
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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. 314	DRAWING TITLE: GROUND FLOOR & ROOF DRAINAGE LAYOUT PLAN PARKING SHED-3 OKARA	<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: M.DANISH CHECKED BY: KHADIJA ARIF DATE: June,2022	DRAWING NO: D-03 SCALE: UNIT=FEET SHEET: - JOB NO: 488-01
REV.	DATE	DESCRIPTION																			



**TYP. RIGID FRAME SECTIONAL
ELEVATION A-A**

CLIENT:

**HELP BUILD
PMDFC
HEALTHY CITIES**
**PUNJAB MUNICIPAL DEVELOPMENT
FUND COMPANY
(PMDFC)**

CONSULTANTS:



JERS CONSULTANCY (PVT) LTD
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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. 315**

DRAWING TITLE:

**RAIN WATER OUTLET DETAIL
OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:

M.DANISH

CHECKED BY:

KHADIJA ARIF

DATE:

June, 2022

DRAWING NO:

D-04

SCALE:

UNIT=FEET

-

SHEET:

-

JOB NO:

488-01

ELECTRICAL DRAWINGS

LEGEND

1 LIGHT FITTINGS & FIXTURES			
S.NO	SYMBOLS	DESCRIPTION	MOUNTING HEIGHT
1		WASHROOM MIRROR LIGHT 9 WATTS LED	6" ABOVE MIRROR
2		SURFACE MOUNTED TUBE LIGHT WITH 2x40 WATTS LED ROD	SURFACE MOUNTED
3		DOWN LIGHT 12 WATTS LED LAMP	SURFACE MOUNTED
4		HIGH BAY HANGING LIGHT 50 WATTS LED LAMP	HANGING BY STEEL STRUCTURE
5		100 WATTS LED FLOOD LIGHT ON 10M HIGH M.S POLE WITH FOUNDATION	ON GROUND
6		EXHAUST FAN	7'-0" ABOVE FFC
7		DISTRIBUTION BOARD	4'-0" FROM FFC
8		SURFACE MOUNTED TUBE LIGHT WITH 1x40 WATTS LED ROD	SURFACE MOUNTED

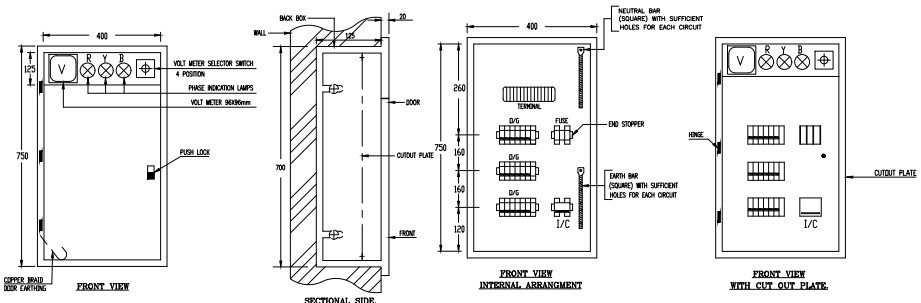
2 WIRING ACCESSORIES				
S.NO	SYMBOLS	DESCRIPTION	MAKE	MOUNTING HEIGHT
1		GANG TYPE SWITCH 10AMPS, INDICATES NUMBER OF SWITCHES ON GANG PLATE	---	+3'-0" FROM F.F.L
2		16 AMP SWITCH SOCKET FOR SPLIT AC ON GANG PLATE	---	AT WALL FROM F.F.L NEAR AC
3		3 PIN COMBINED SWITCH SOCKET 15 AMPS ON M.S JUNCTION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

GENERAL NOTES:-

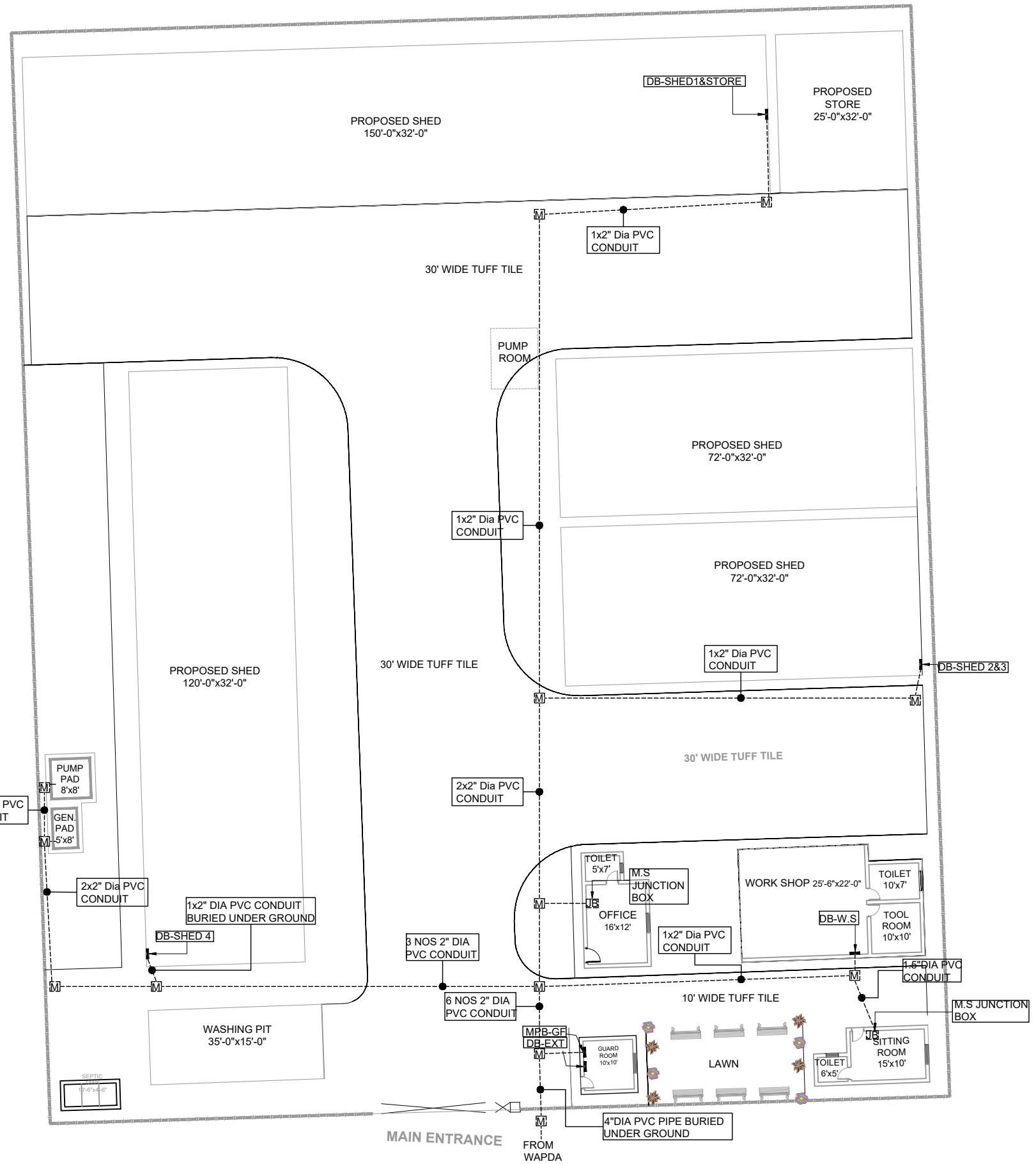
- A LEGEND.**
REFER TO LEGEND FOR THOSE SYMBOLS ONLY MENTIONED ON ALL LAYOUT PLANS. OTHER SYMBOLS SHOWN IN LEGEND BUT NOT ACTUALLY SHOWN ON LAYOUT DRAWINGS MAY PLEASE BE IGNORED.
- B ELECTRICAL WORKS.**
THE FOLLOWING NOTES SHALL IN GENERAL APPLY TO ALL ELECTRICAL DRAWINGS. THE INSTRUCTIONS IN THESE NOTES 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.
- C 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.
- D 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.
- E 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.
- F CO-ORDINATION**
THE ELECTRICAL CONTRACTOR SHALL DO ALL NECESSARY CO-ORDINATION OF ELECTRICAL WORKS AND ALLIED SYSTEMS WITH ALL OTHER SERVICES AT SITE.
- G 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.
- H ELECTRICAL WIRING.**
ALL WIRING SHALL BE DONE IN PVC CONDUIT TO BE CONCEALED IN WALLS, SLABS, COLUMNS AND FLOORS OR AS SHOWN ON DRAWINGS.
- I THE WIRING SHOULD BE STARTED ONLY AFTER THE CONDUIT SYSTEM HAS BEEN COMPLETED AND ALL OUTLET BOXES ARE FIXED AT THEIR RESPECTIVE POSITIONS.**
- J 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.
- K 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.
- L 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).
- M SIZE OF WIRES**
FOLLOWING SIZES OF PVC INSULATED WIRES WITH COPPER CONDUCTORS SHALL BE USED FOR INTERNAL WIRING, UNLESS STATED OTHERWISE.
- N 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**
- O 2.5mm sq PVC INSULATED WIRES SHALL BE USED FROM DB TO SWITCH BOARDS FOR LIGHTING CIRCUITS.**
- P 4mm sq OR 6mm sq PVC INSULATED WIRES OR AS SHOWN ON DRAWING/BOQ SHALL BE USED FOR WIRING FROM DB TO POWER SOCKETS.**
- Q BACK BOXES**
ALL BACK BOXES FOR SWITCHES & SOCKETS SHALL 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.
- R EARTHING OF POINTS.**
ALL ELECTRICAL AND POWER SOCKETS SHALL BE PROPERLY EARTHED WITH 2.5mm sq PVC INSULATED WIRES OF COLOUR GREEN-YELLOW.
- S CAPACITY OF CONDUITS.**
THE NUMBER OF WIRES TO BE PULLED IN ANY CONDUIT FOR WIRING PURPOSES SHALL CONFORM TO I.E.E RULES & REGULATIONS
- T 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.
- U 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.
- V 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
- W 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
- X 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.
- Y 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
- Z 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.
- AA 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
- AB ELECTRICAL CONSULTANT.**
ELECTRICAL CONTRACTOR TO CONSULT ELECTRICAL CONSULTANT/ENGINEER FOR ANY FURTHER CLARIFICATIONS. NO ASSUMPTIONS SHOULD BE MADE.
- AC 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

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. 317	DRAWING TITLE: LEGEND & NOTES OKARA	DRAWN BY: FATIMA ZAHRA	DRAWING NO: E-00
				CHECKED BY: M.A.R	
DATE: June, 2022				REV. DATE DESCRIPTION	



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

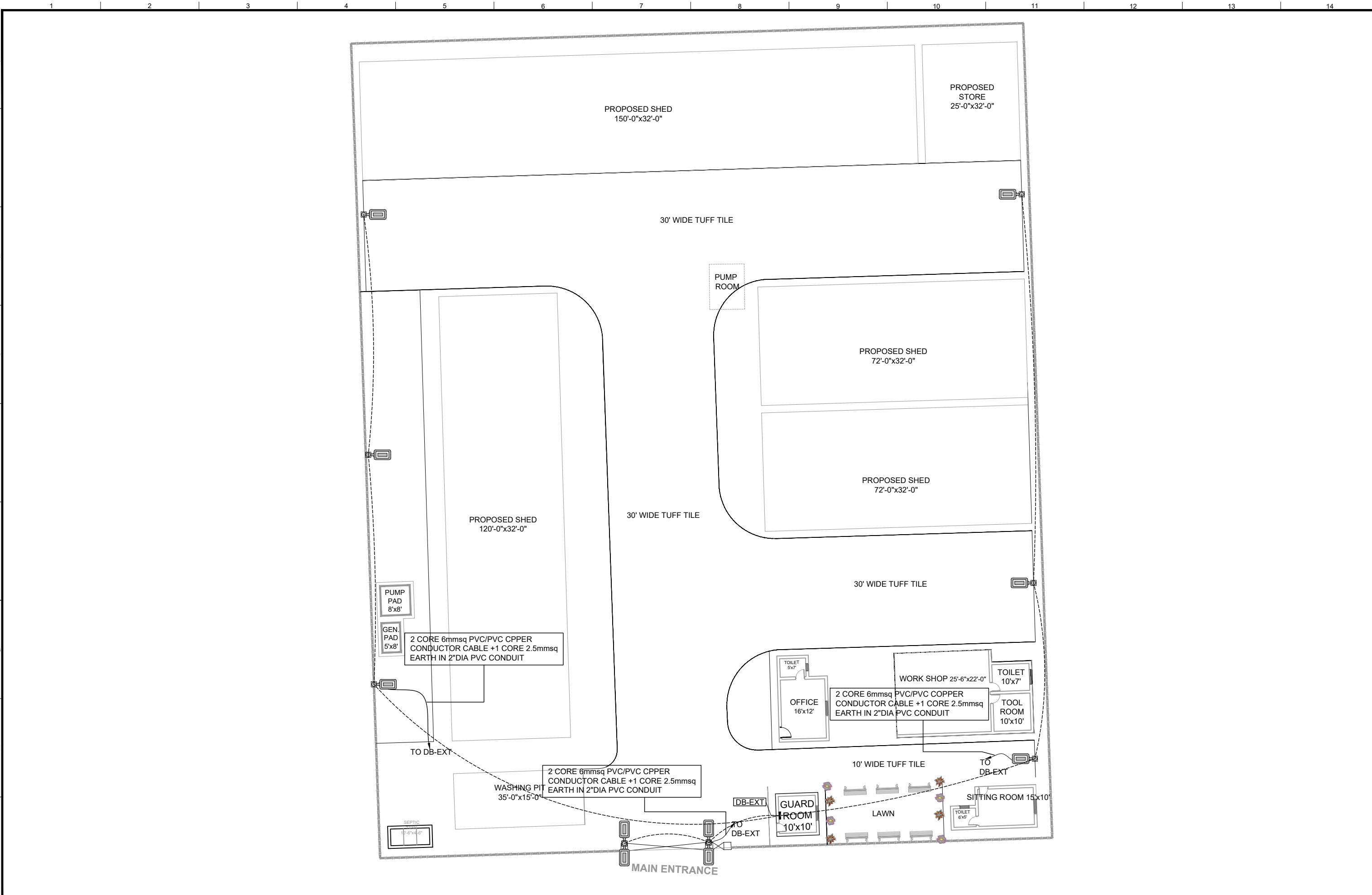
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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 318

DRAWING TITLE:
ELECTRICAL CABLE ROUTE LAYOUT PLAN OKARA

REV.	DATE	DESCRIPTION

DRAWN BY: FATIMA ZAHRA	DRAWING NO: E-01
CHECKED BY: M.A.R	SCALE: UNIT=FEET NTS
DATE: June, 2022	SHEET: 1 OF 1 JOB NO: 488-01



CLIENT:

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

PROJECT:

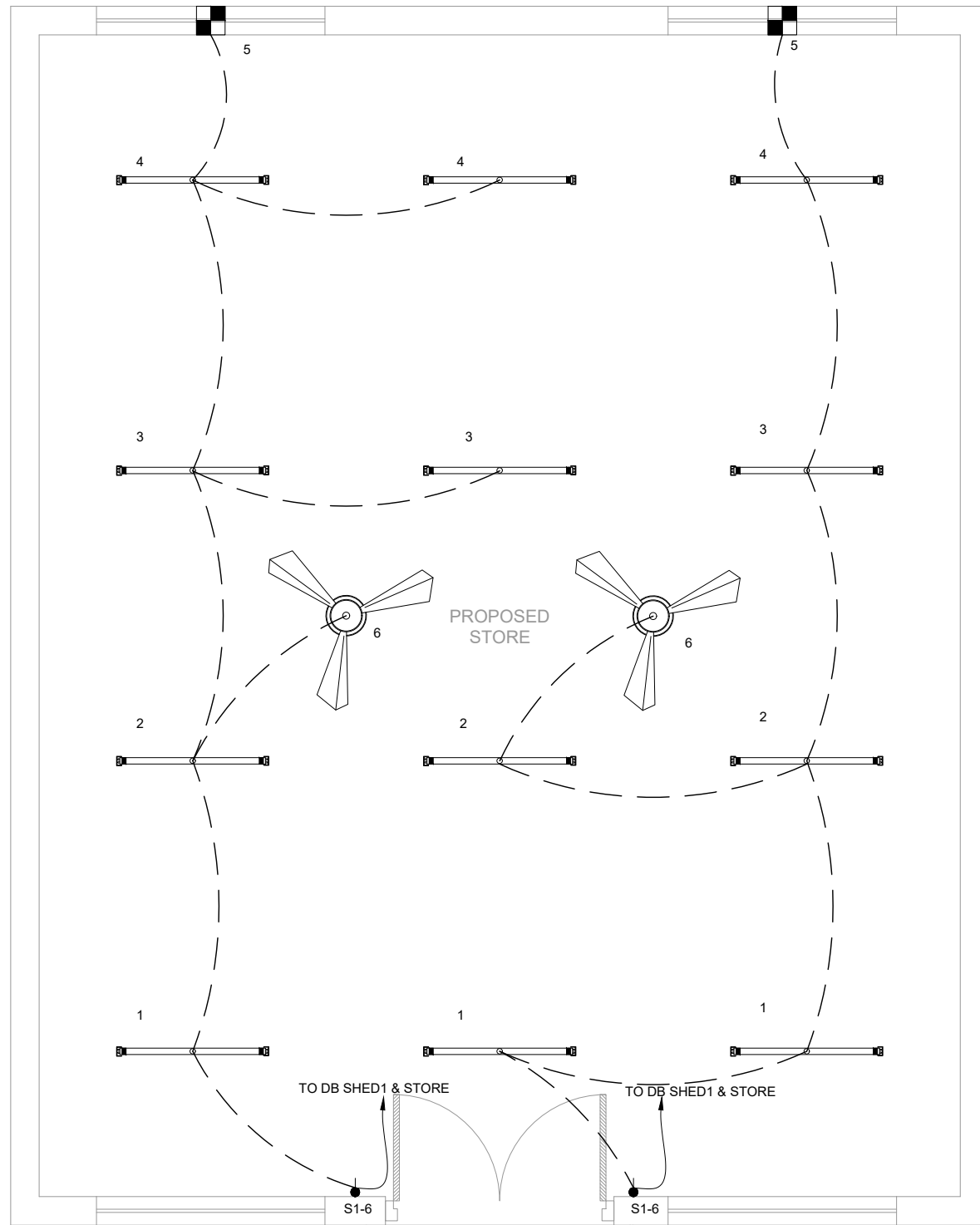
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 319

DRAWING TITLE:

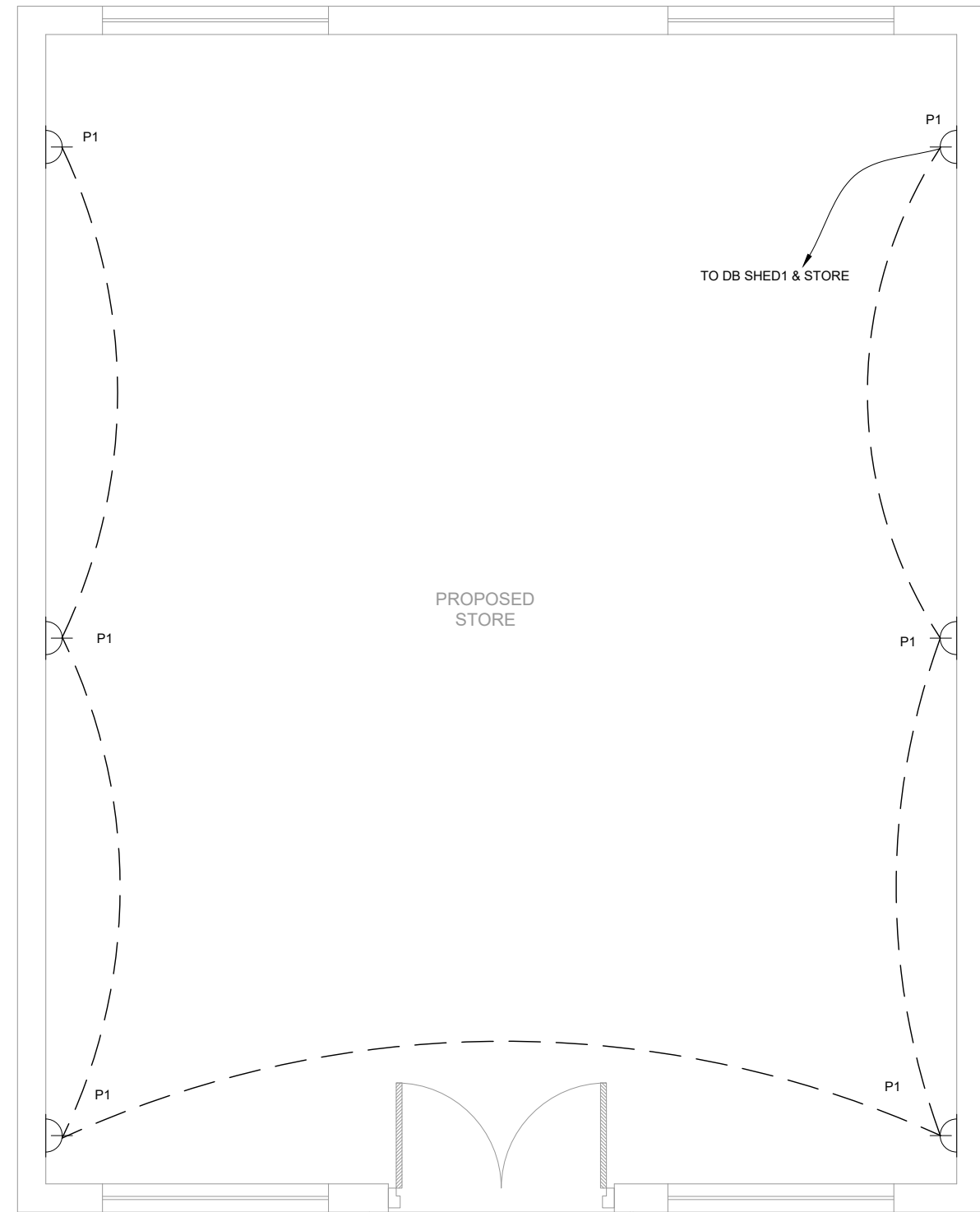
EXTERNAL ROAD LIGHTING LAYOUT PLAN OKARA

REV.	DATE	DESCRIPTION

DRAWN BY: FATIMA ZAHRA	DRAWING NO: E-02
CHECKED BY: M.A.R	SCALE: UNIT=FEET NTS
DATE: June, 2022	SHEET: 1 OF 1 JOB NO: 488-01



**GROUND FLOOR PLAN
LIGHTING LAYOUT PLAN**



**GROUND FLOOR PLAN
SMALL POWER LAYOUT PLAN**

CLIENT:

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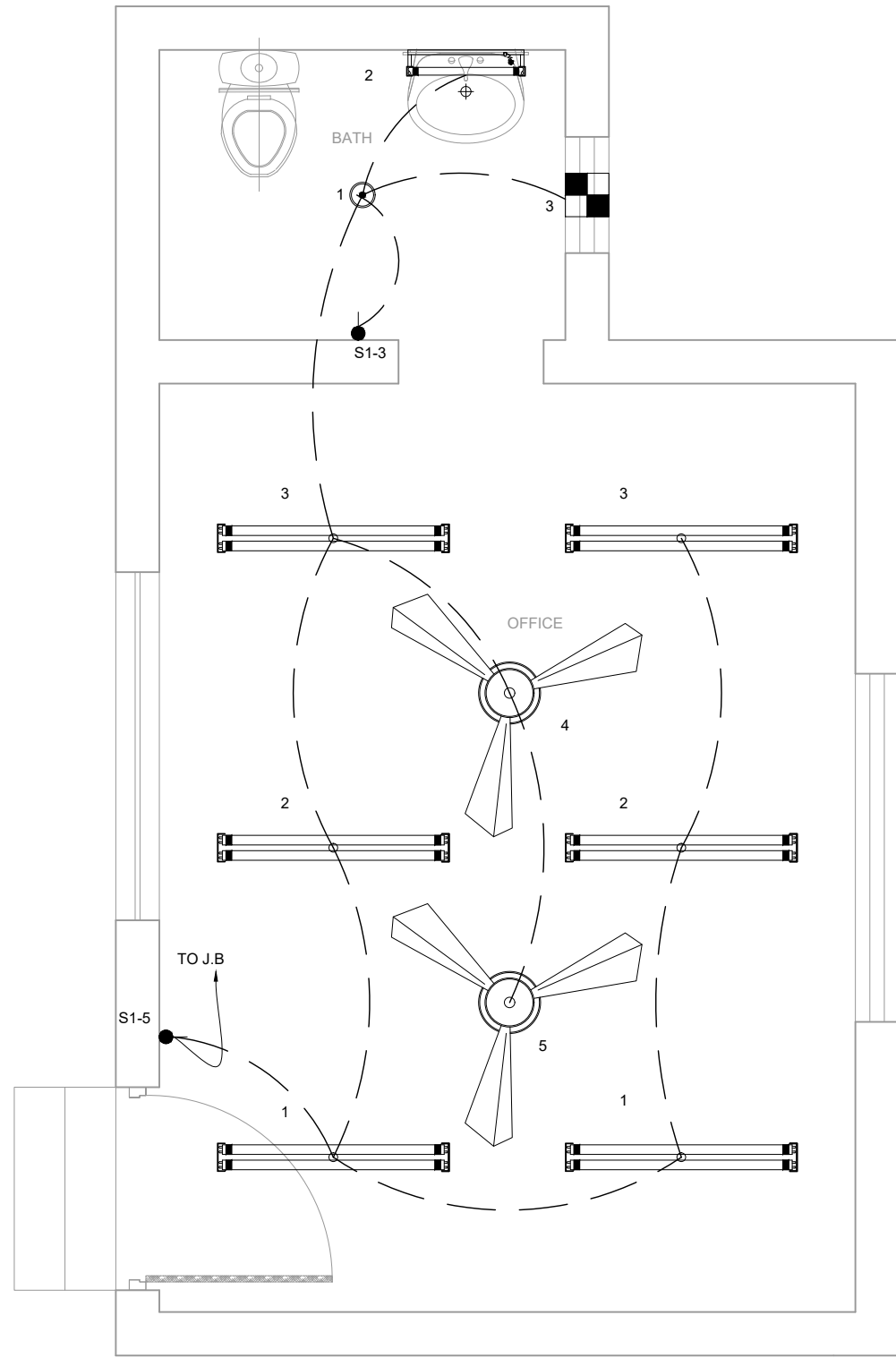
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 320

DRAWING TITLE:
**LIGHTING & SMALL POWER
LAYOUT PLAN
PROPOSED STORE
OKARA**

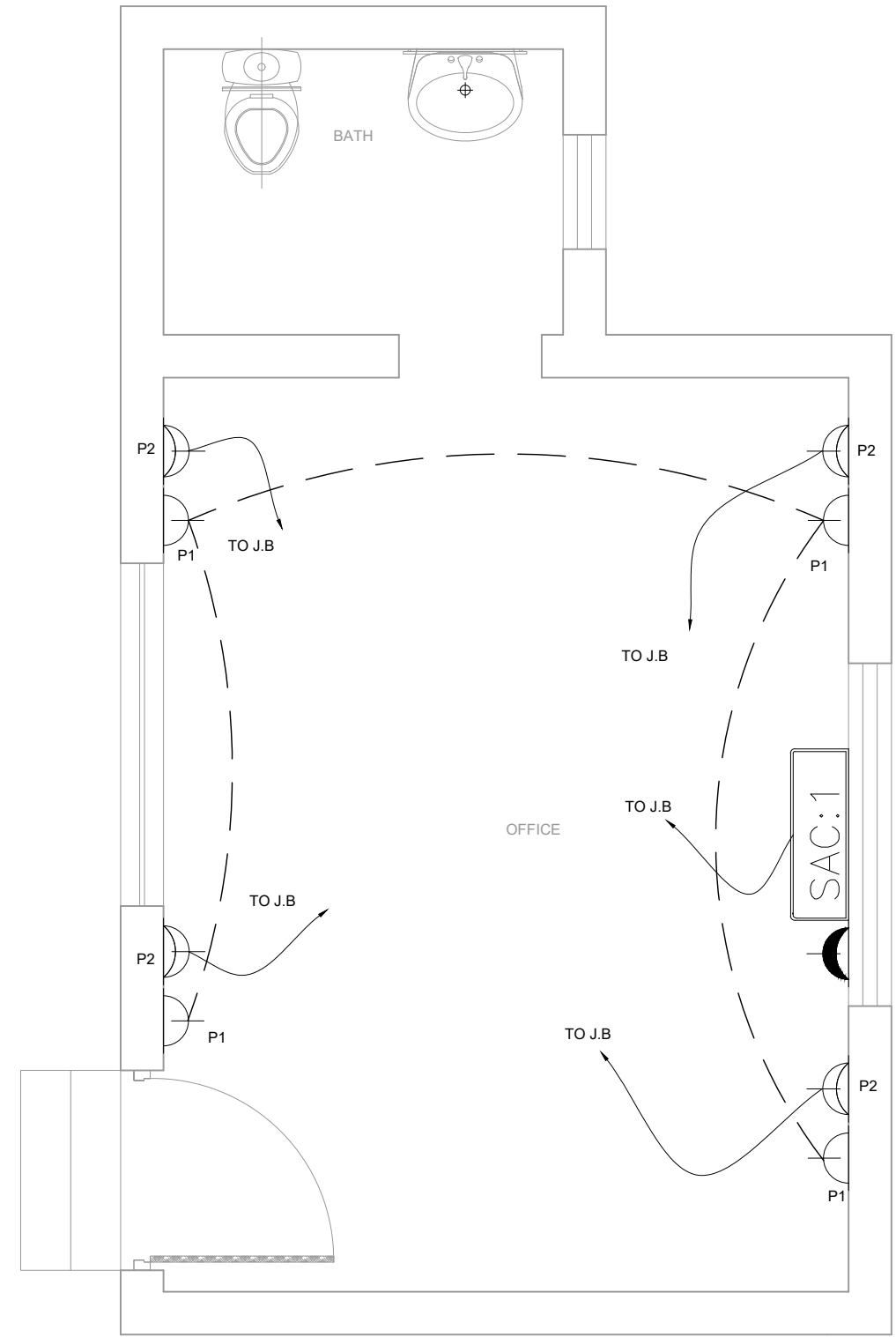
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DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
M.A.R
 DATE:
June, 2022

DRAWING NO:
E-03
 SCALE:
UNIT=FEET
3/8"=1'-0"
 SHEET:
1 OF 1
 JOB NO:
488-01



GROUND FLOOR PLAN
LIGHTING LAYOUT PLAN



GROUND FLOOR PLAN
SMALL POWER LAYOUT PLAN

CLIENT:

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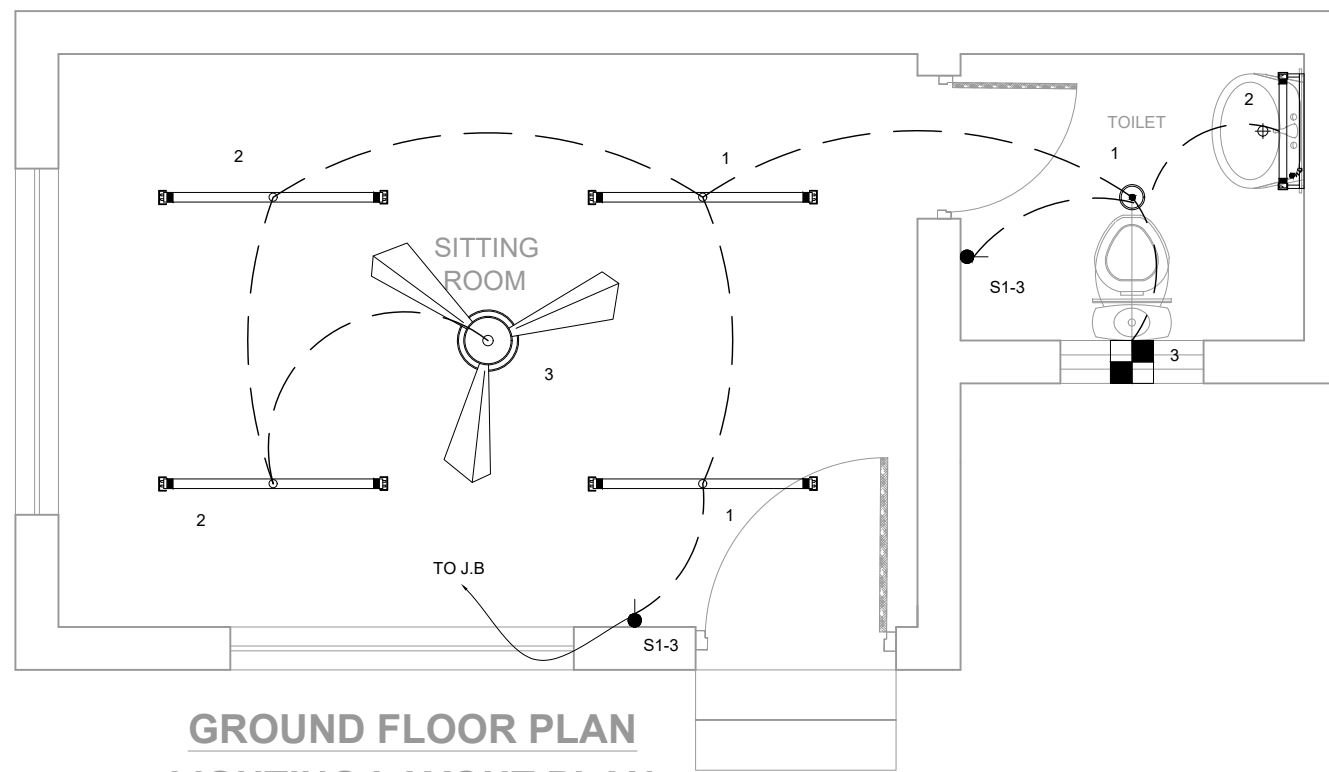
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 321

DRAWING TITLE:
LIGHTING & SMALL POWER LAYOUT PLAN OFFICE BLOCK OKARA

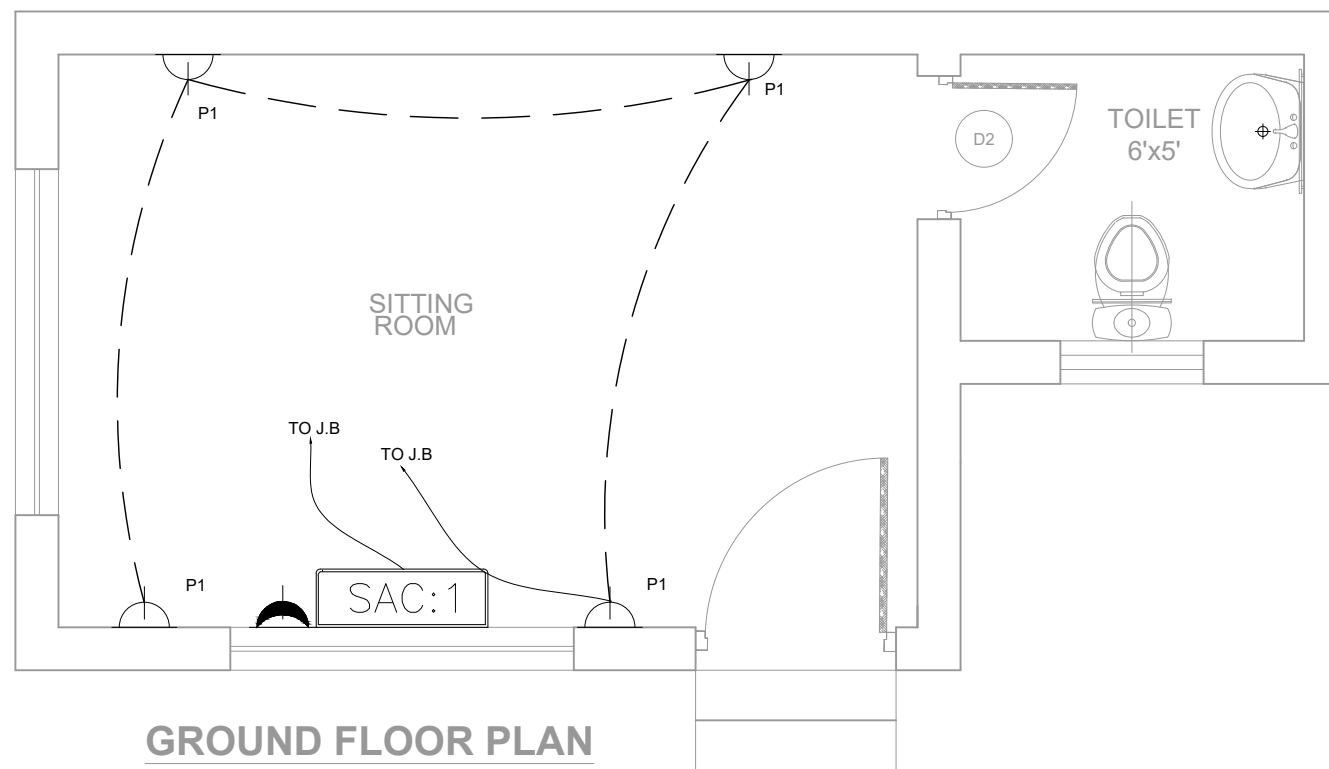
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DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
M.A.R
 DATE:
June, 2022

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



**GROUND FLOOR PLAN
LIGHTING LAYOUT PLAN**



**GROUND FLOOR PLAN
SMALL POWER LAYOUT PLAN**

CLIENT:

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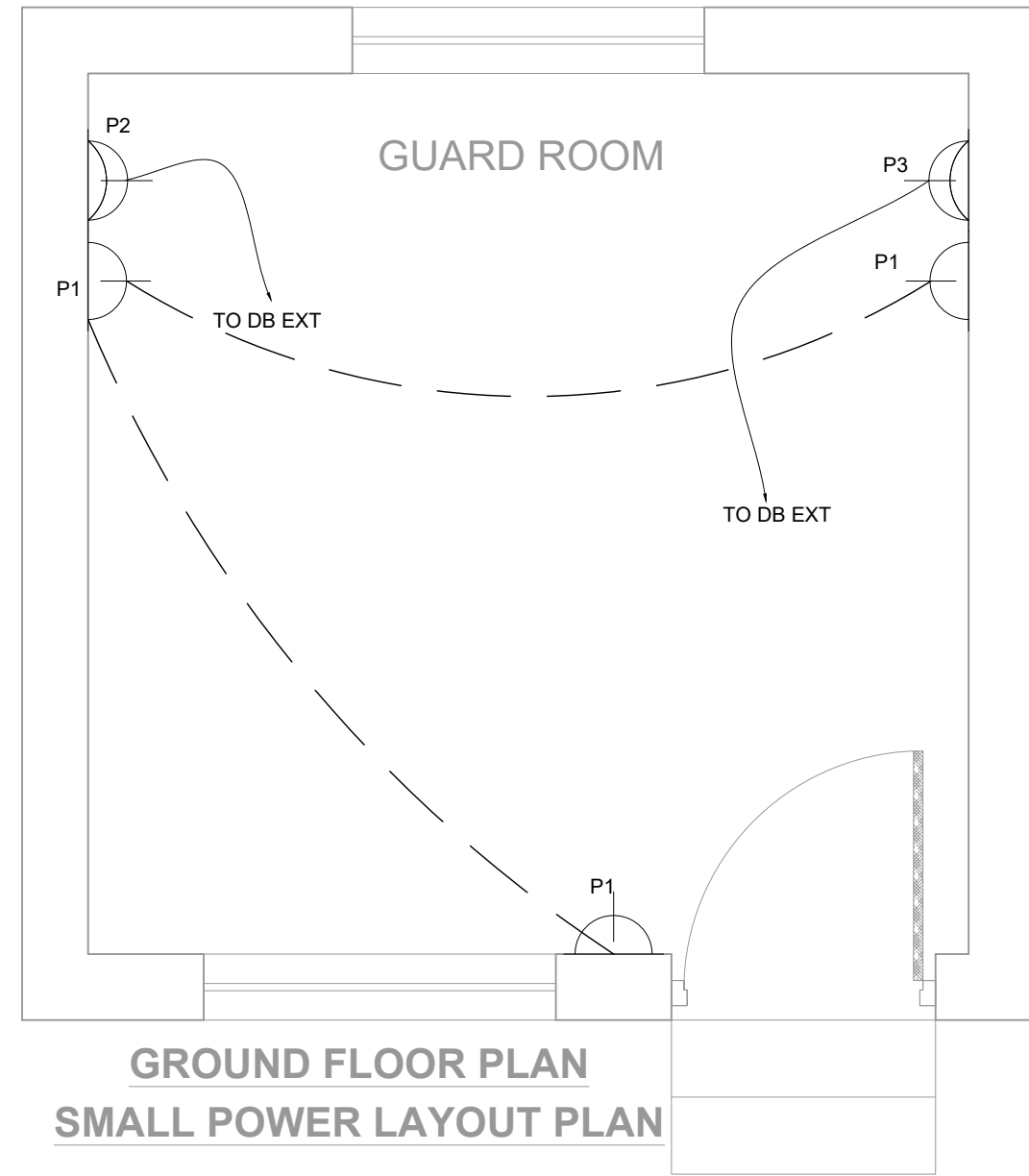
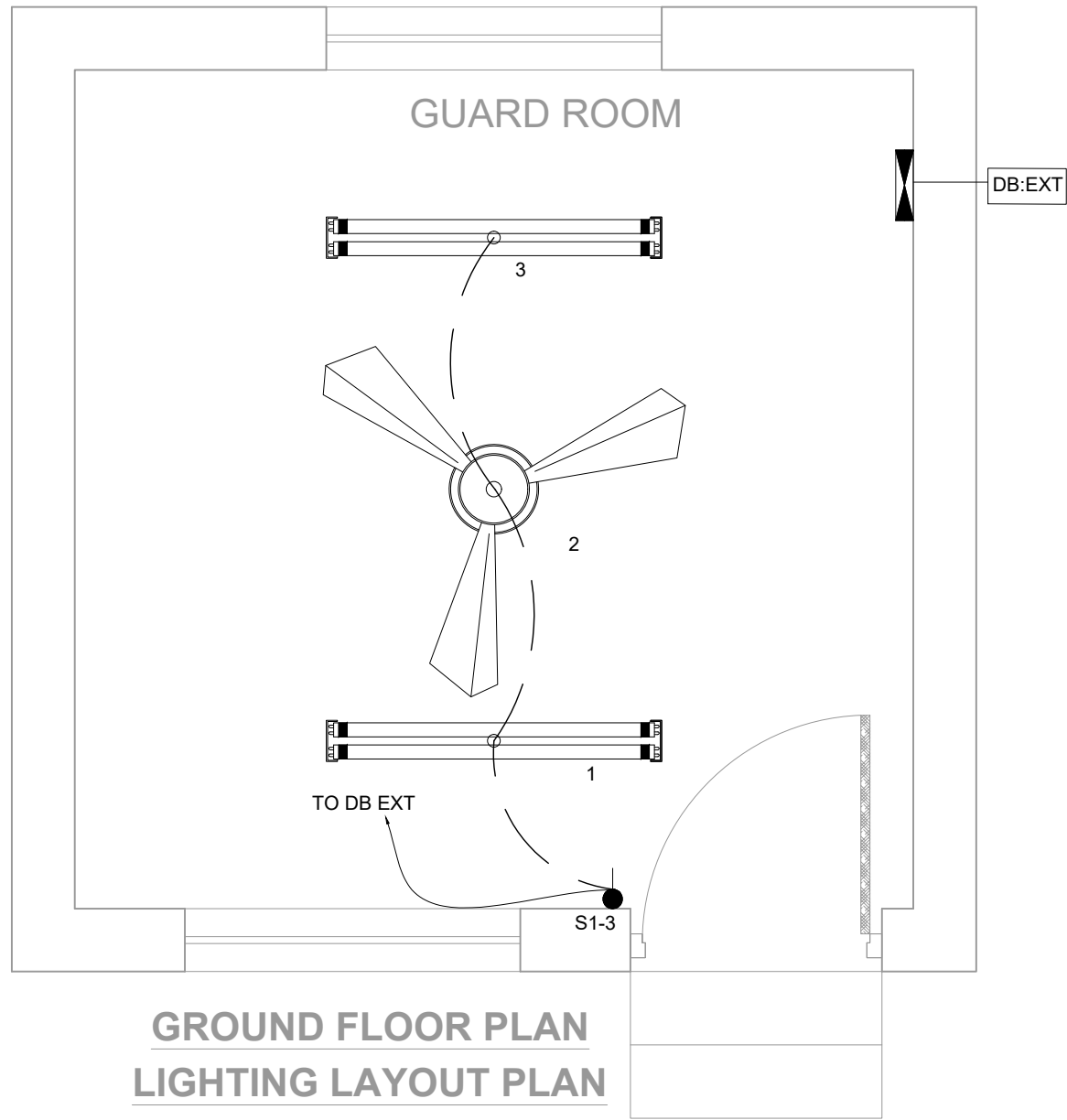
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 322

DRAWING TITLE:
**LIGHTING & SMALL POWER
LAYOUT PLAN
SITTING AREA
OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
M.A.R
 DATE:
June, 2022

DRAWING NO:
E-05
 SCALE:
UNIT=FEET
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 SHEET:
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488-01



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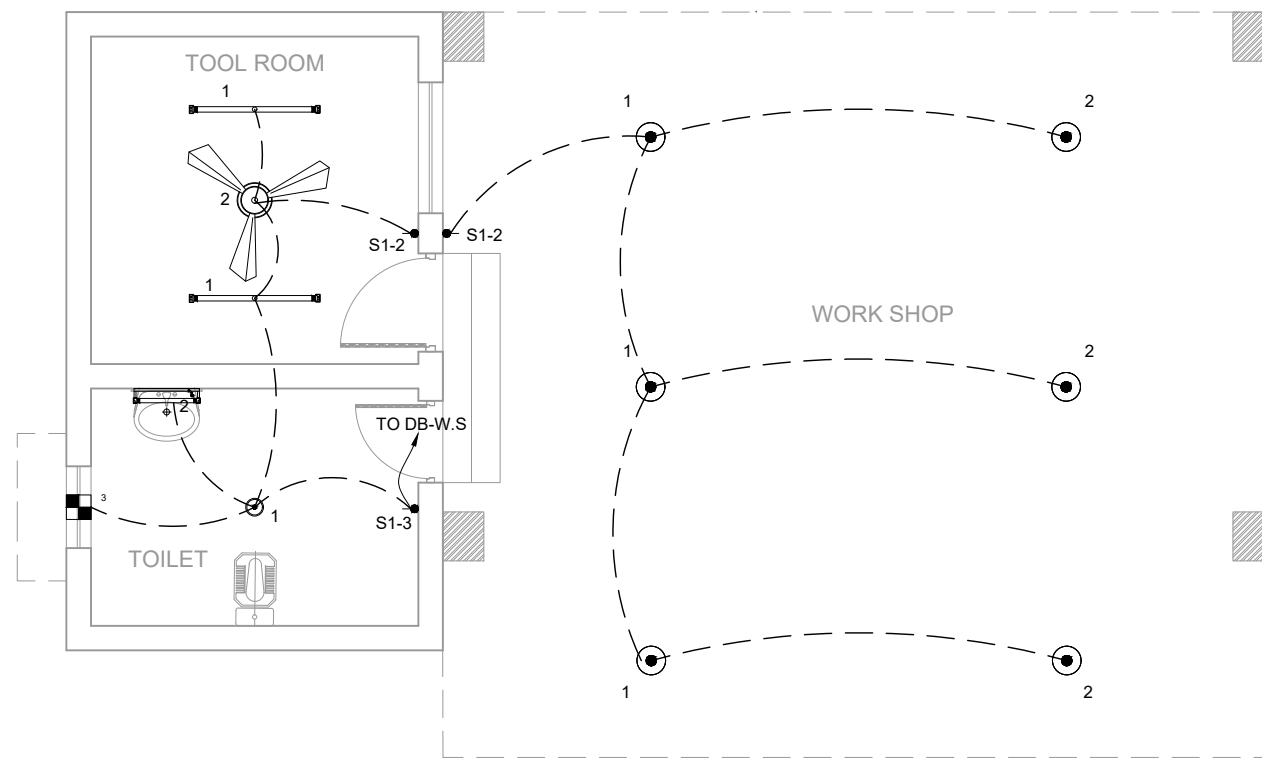
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 323

DRAWING TITLE:
**LIGHTING & SMALL POWER
LAYOUT PLAN
GUARD ROOM
OKARA**

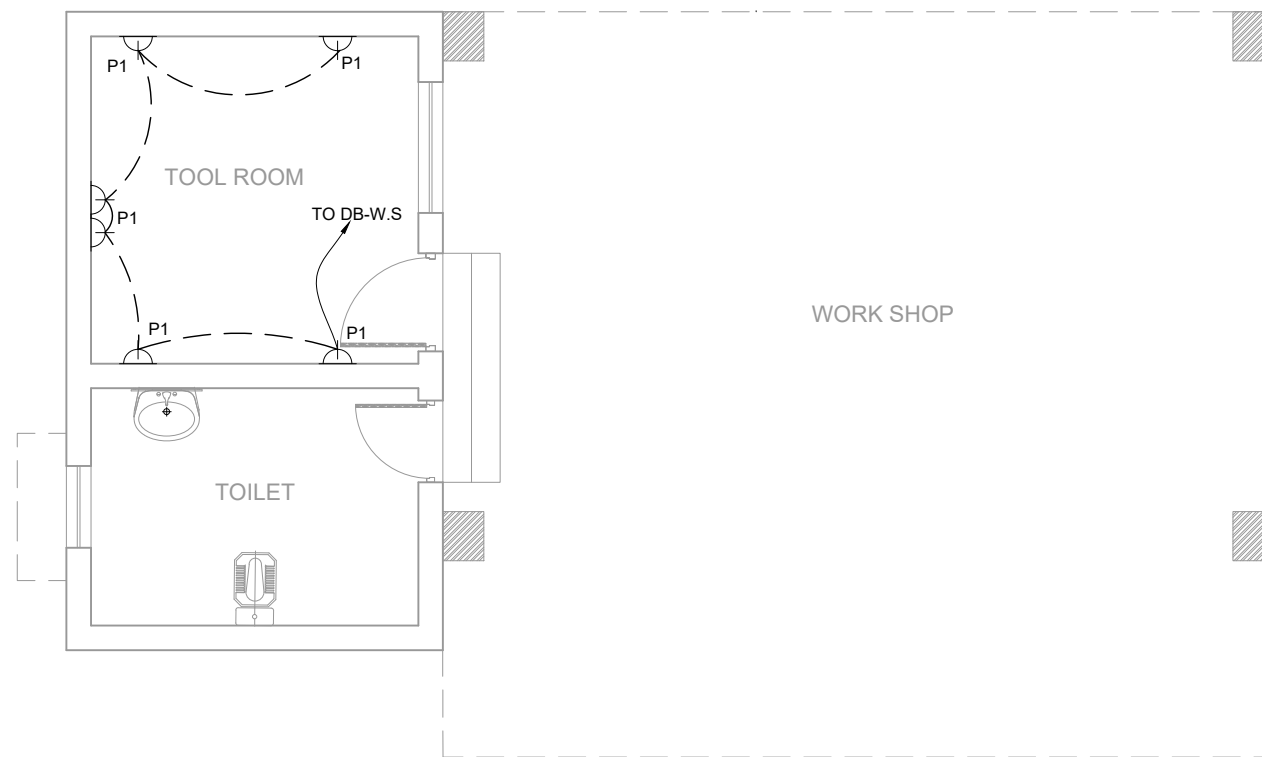
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DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
M.A.R
 DATE:
June, 2022

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



**GROUND FLOOR PLAN
LIGHTING LAYOUT PLAN**



**GROUND FLOOR PLAN
SMALL POWER LAYOUT PLAN**

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

CONSULTANTS:
 **JERS CONSULTANCY (PVT) LTD**
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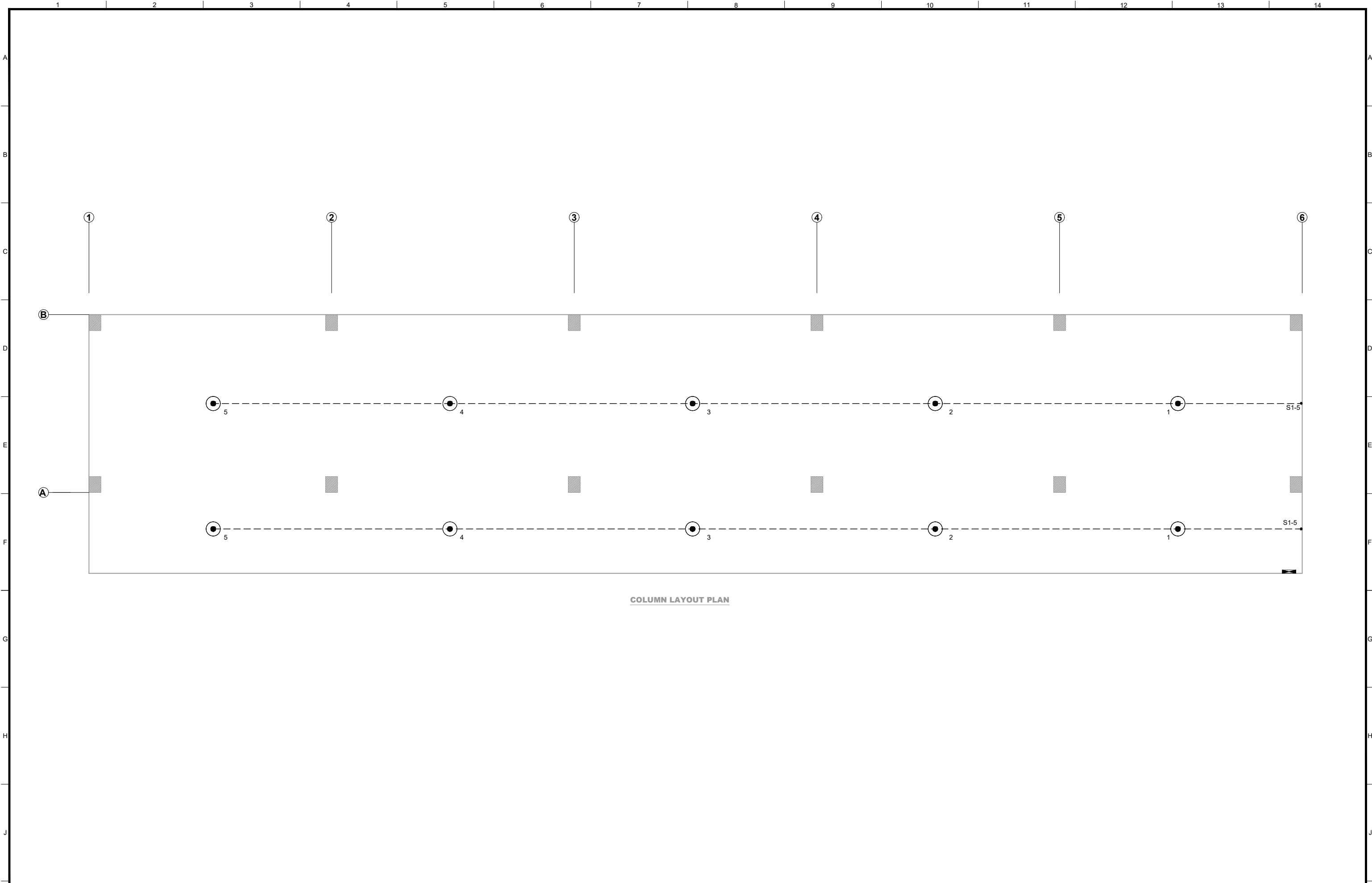
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 324

DRAWING TITLE:
**LIGHTING & SMALL POWER LAYOUT PLAN
WORKSHOP
OKARA**

REV.	DATE	DESCRIPTION
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DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
M.A.R
 DATE:
June, 2022

DRAWING NO:
E-07
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



COLUMN LAYOUT PLAN

CLIENT:

PUNJAB MUNICIPAL DEVELOPMENT FUND COMPANY (PMDFC)

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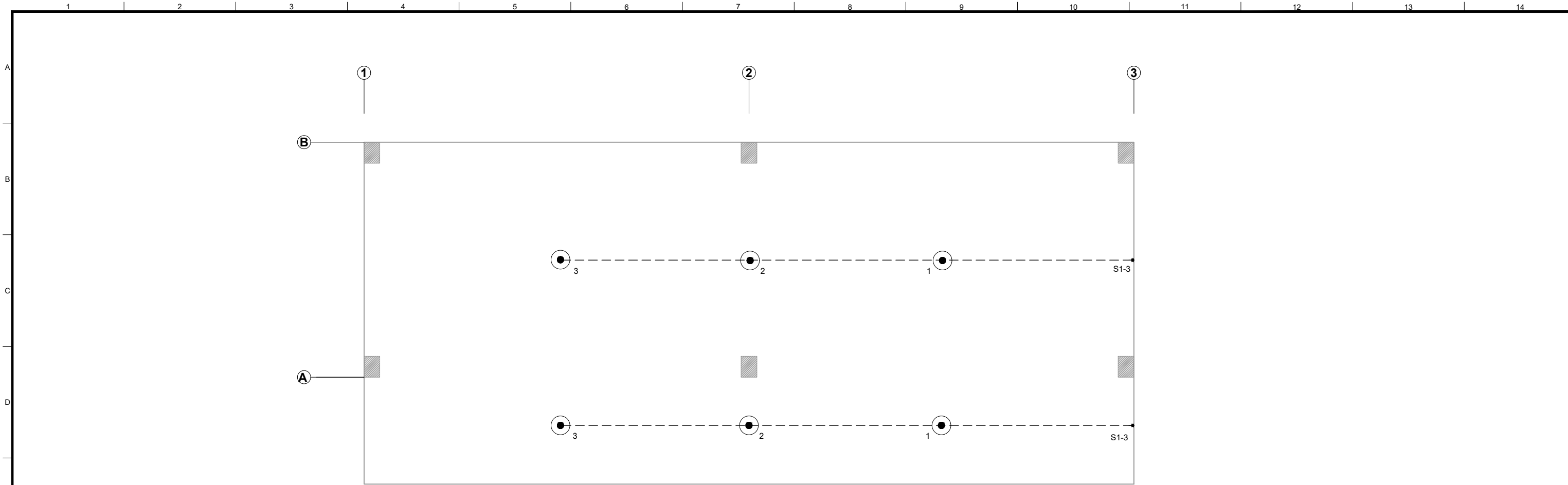
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 325

DRAWING TITLE:
LIGHTING LAYOUT PLAN
PARKING SHED 01
OKARA

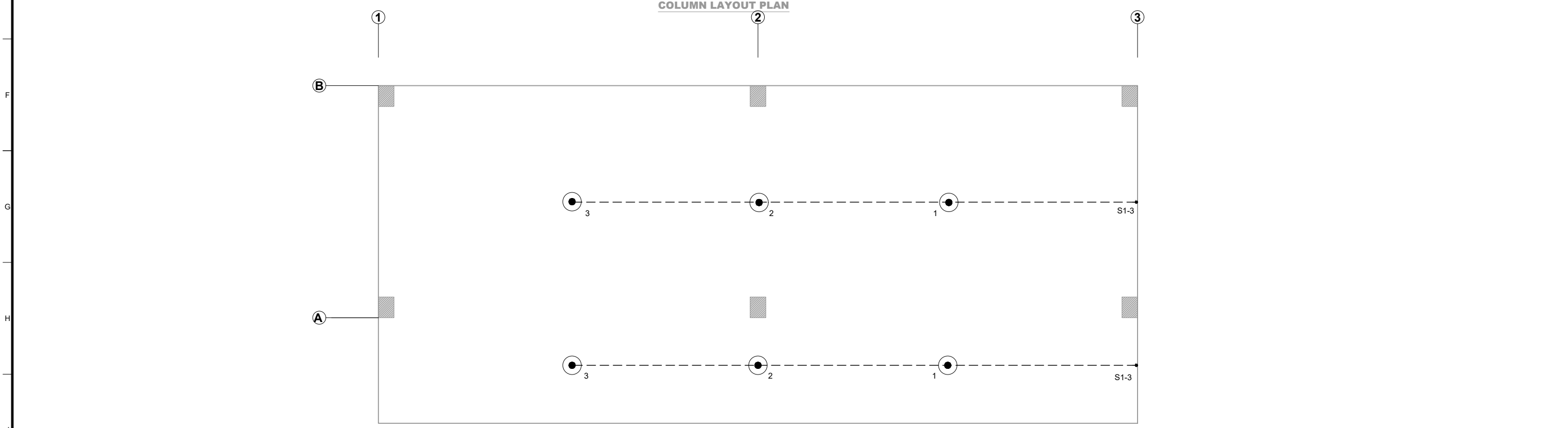
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DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
M.A.R
 DATE:
June, 2022

DRAWING NO:
E-08
 SCALE:
UNIT=FEET
NTS
 SHEET:
1 OF 1
 JOB NO:
488-01



COLUMN LAYOUT PLAN



COLUMN LAYOUT PLAN

CLIENT:
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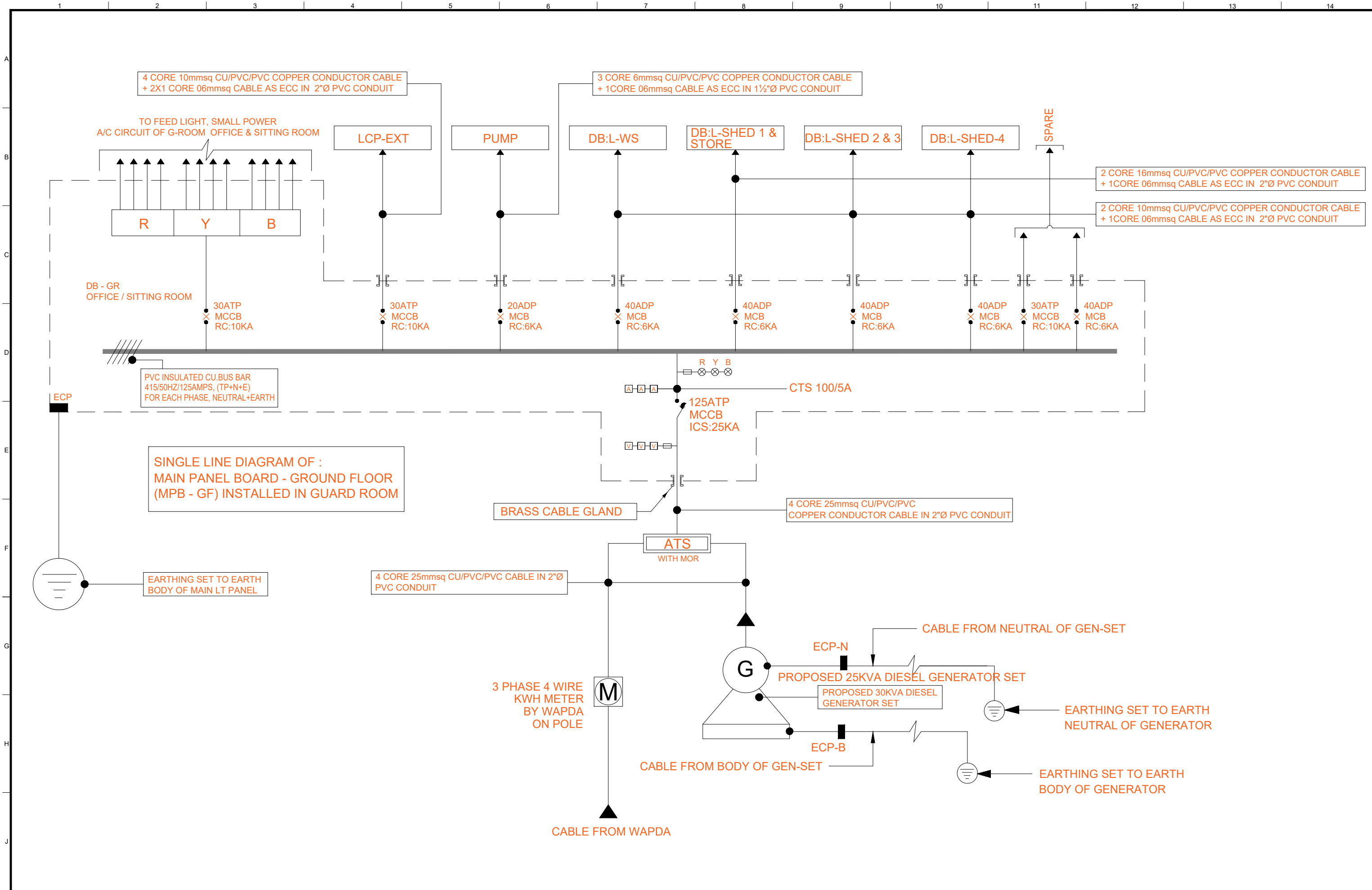
PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 326



DRAWING TITLE:
LIGHTING LAYOUT PLAN
PARKING SHED 2&3
OKARA

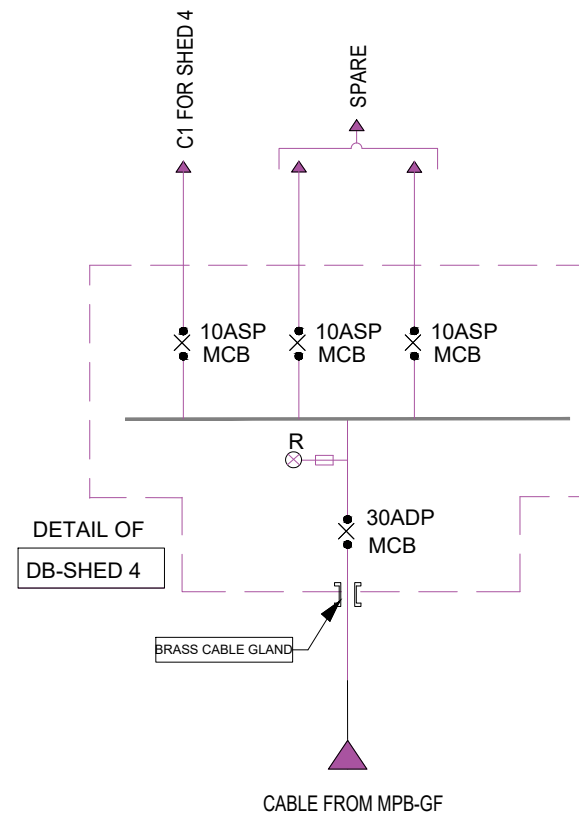
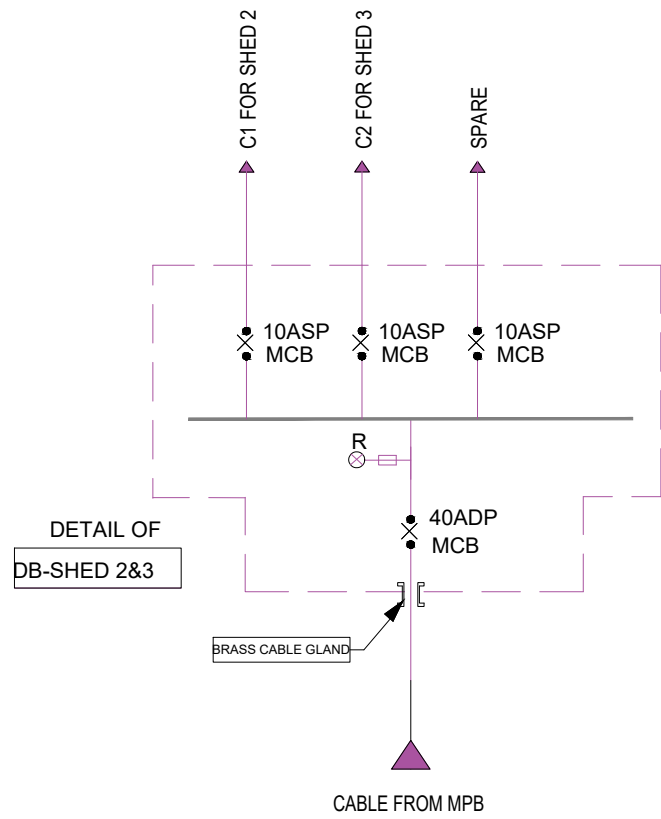
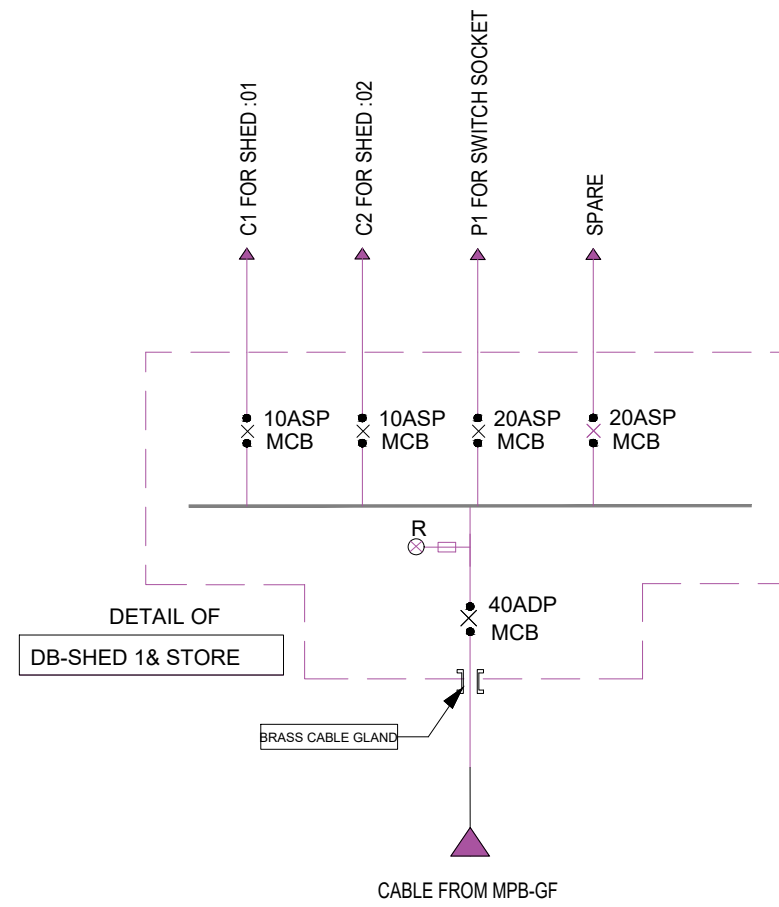
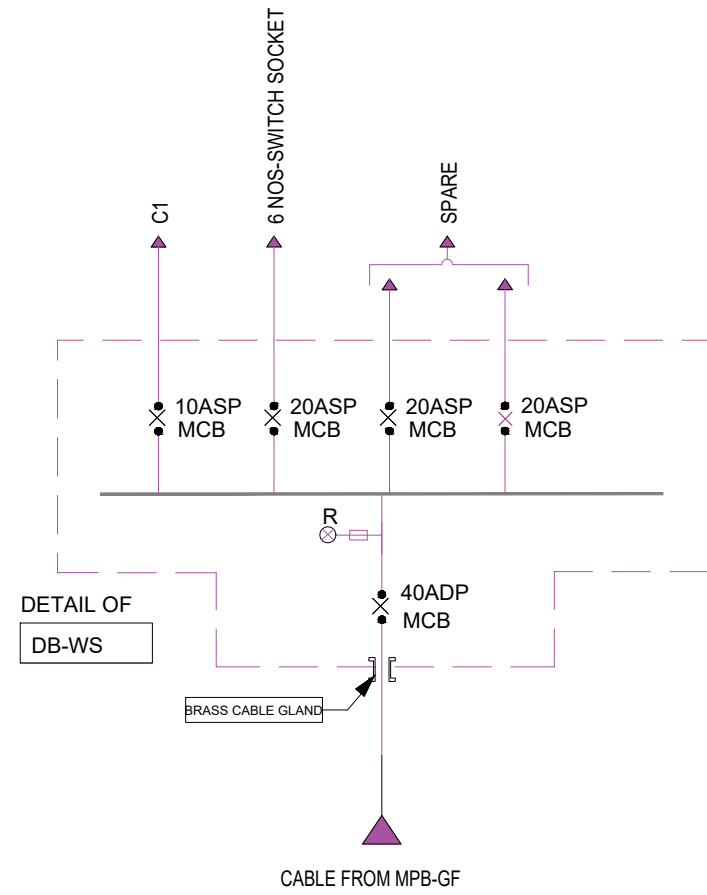
REV.	DATE	DESCRIPTION
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DRAWN BY:
FATIMA ZAHRA
 CHECKED BY:
M.A.R
 DATE:
June, 2022

DRAWING NO:
E-09
 SCALE:
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NTS
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 JOB NO:
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				CHECKED BY: M.A.R	SCALE: NTS	
				DATE: JUNE, 2022	JOB NO: 488-01	



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PROJECT:
PUNJAB CITIES PROGRAM (PCP)
 DETAILED DESIGN OF INFRASTRUCTURE
 SUB-PROJECTS AND RESIDENTS SUPERVISION IN
 16 CITIES OF PUNJAB. 329

DRAWING TITLE:
**DETAIL OF DISTRIBUTION BOARD
 PARKING SHED 01
 OKARA**

REV.	DATE	DESCRIPTION
-	-	-

DRAWN BY:
ADEEL
 CHECKED BY:
M.A.R
 DATE:
JUNE, 2022

DRAWING NO:
SLD - 02
 SCALE:
NTS
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 JOB NO:
488-01