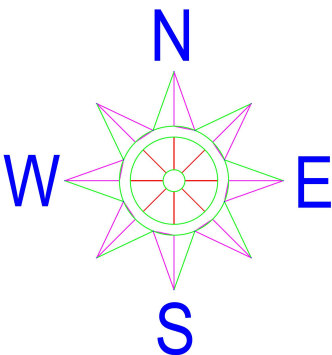


LAYOUT : 900 MW (3 X 300 MW) Solar PV Projects at Fatehgarh



- Notes:
- General
 - The tender drawings shall be read in conjunction with the provision of Technical Specifications.
 - The details show in drawing are suggestive and for tender purpose only.
 - Land would be handed over to Bidders after leveling if required to arrive at an average 10% ground slope (10% local) along North-South direction as per provisions of tender. However, if required minor provisions w.r.t leveling shall be included in EPC Bidder scope only in local areas.
 - Leveling of land, if applicable would be done in parallel and would not be considered as obstruction to progress w.r.t Engg. Design, procurement and construction at site (where land is already in order).
 - The Boundary demarcation is for reference purpose only however the actual boundaries will be finalized based on the Layout finalization after detailed Engg.
 - Reference Data for Project Site
 - Bidder shall conduct the topographical survey (optional) and Geo-technical investigation to finalize the Layout & Foundations as per the actual topography & Geo-technical Data.
 - Layout of Roads shown in the Tender drawings is for the reference purpose only. Bidders are advised to visit site as as to access the actual site approachability.
 - The land provided will be free from trees, obstructions.
 - Site Specific Considerations
 - All Temporary facilities for project development during construction including any road construction, fencing, leveling etc. is in Bidder Scope.
 - All Internal Road & drains are deemed to be in Scope of Work of bidder.
 - All arrangements as necessary to take up the project construction work, are in bidder's scope as per provisions of Tender Documents.
 - Water and Construction power are under the scope of Bidder and hence are to be considered by bidder for the given projects, as per their respective requirements, while planning for the project site activities.
 - Location has been marked for area reserved for Solar Project. However, the actual location may vary to a some extent.

FOR TENDER PURPOSE ONLY

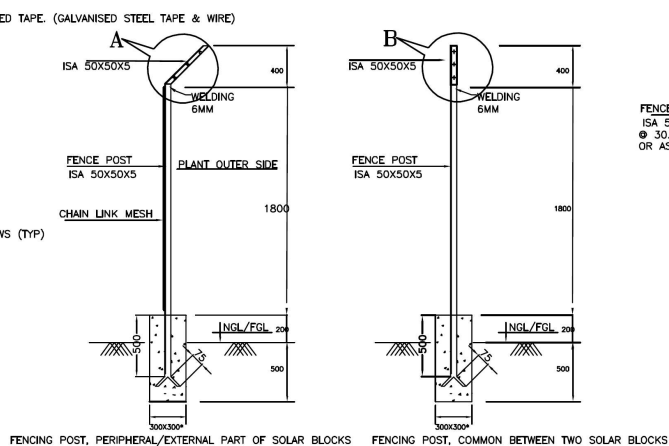
- Note:
- AREA MARKED IS SUBJECT TO MINOR MODIFICATIONS AT SITE
 - LAND WILL BE PROVIDED TO THE TUNE OF 5 ACRE/MW HOWEVER THE SAME MAY DECREASE MARGINALLY DUE TO ACTUAL SITE CONDITIONS.

Vicinity Map and Block Layout

BALANCE OF SYSTEM PACKAGE FOR DEVELOPMENT OF 900MW (3X300MW) GRID CONNECTED SOLAR PV PROJECT AT FATEHGARH, RAJASTHAN

PREPARED BY	CHECKED BY	APPROVED BY	DATE	SIZE	SCALE	DRG. NO.	
				A0	NTS		R0

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SECTION 1-1

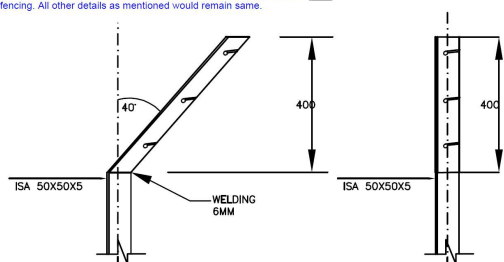


TYPICAL ELEVATION OF FENCING

If Bidder chooses to opt for Alternate Option in Note 11 then Net Height of Fencing as shown above i.e. 2400mm from NGL shall be maintained (as minimum). Further, Diamond Chain Link Fencing would be extended till NGL (in place of wall) and Concertina would be provided inside the fencing. All other details as mentioned would remain same.

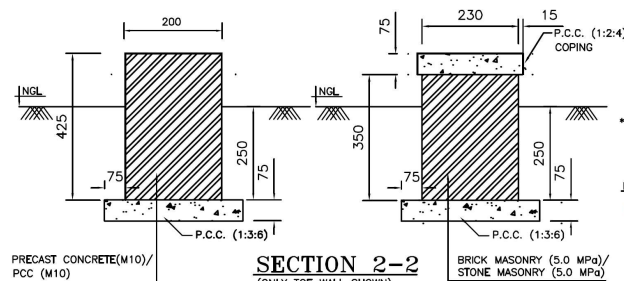
PRECAST CONCRETE (M10)/PCC (M10)/
BRICK MASONRY (7.5 MPa)/STONE MASONRY (7.5 MPa) WORKS

(Also Refer Note 11)



DETAIL-A

DETAIL-B



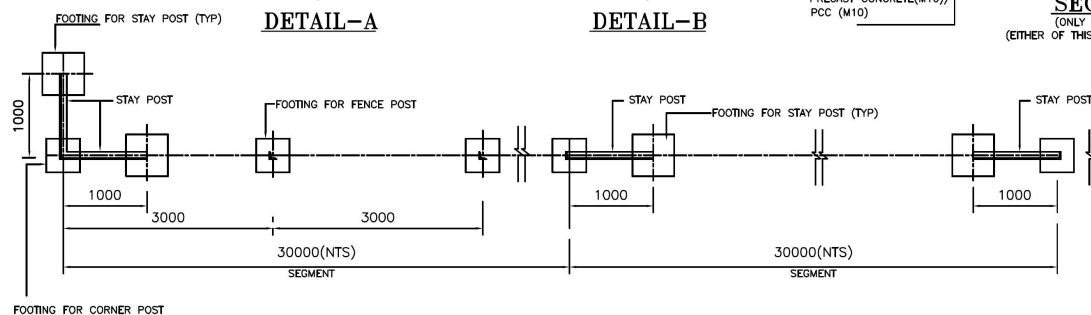
SECTION 2-2

(ONLY TOE WALL SHOWN)
(EITHER OF THIS SECTION TO BE ADOPTED)

* SIZE AND SHAPE OF FOUNDATION MAY BE SUITABLY DECIDED BY BIDDER MEETING THE MINIMUM CROSS SECTION AREA REQUIRED WITH MENTIONED DIMENSIONS.

NOTES:

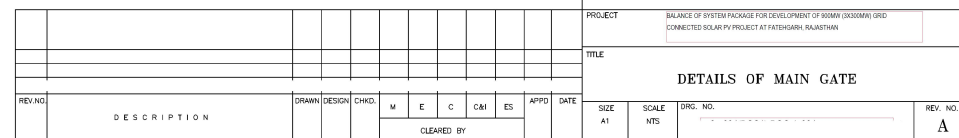
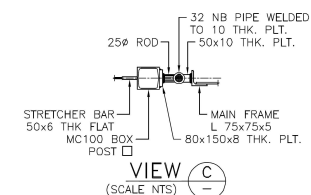
1. ALL LEVELS ARE IN METERS & DIMENSIONS ARE IN MM.
2. GALVANIZED MS ISA ANGLE 50 X 50 X 50 MM INCLUDING NUTS AND BOLTS SHALL CONFORMS TO IS: 2082 & IS: 4759.
3. CHAIN LINK FENCE TO BE SUPPLIED BY THE CONTRACTOR. MATERIAL FOR THE WORKS SHALL BE AS PER IS: 2761 (2003) & AS PER TECHNICAL SPECIFICATIONS.
4. HTSS WIRE AND CHAIN LINK FENCE SHALL BE ERECTED ONLY AFTER ERECTED OF EACH SEGMENT OF FENCE POSTS AND STAY POSTS.
5. POC SIGN IS AS SHOWN IN THE PLAN.
6. ALL SLOP SHALL BE MIN 75 MM THICK.
7. THE DEPTH OF COUNTRY ROAD SHALL BE TAKEN FROM NGL AND HEIGHT OF STRUCTURE SHALL BE TAKEN ABOVE FGL.
8. EXTERNAL PLASTER OF 12 MM THICK (1:6) SHALL BE IN TOE WALL SECTION ABOVE GROUND IN CASE BRICK MASONRY IS PROPOSED.
9. ALL BOB USED SHALL BE 125 MM DIA OR GREATER.
10. MINIMUM DEPTH OF FOUNDATION SHALL BE 500 MM; HOWEVER, DEPTH OF FOUNDATION SHALL BE INCREASED TO ACCOUNT FOR EROSION IN THE AREA AFFECTED BY WIND EROSION/SCOURING.
11. BIDDER SHALL PREPARE CONSTRUCTION DRAWING OF BOUNDARY WALL AT ABRUPT CHANGE IN THE GROUND LEVELS, CORNERS, JOINTS, WATER.
12. Bidder also has option to provide either wire TIE or G/L Steel Concrete Wire Frame where in Detailed drawing e.r.1 Fixing with Steel Angles / Barbed Wire Fencing, shall be prepared & submitted for approval during post award stage.
13. Concrete for the foundation shall be supplied by the contractor in form of concrete coil (G) - 6 mm dia, having 50 nos rounds per 6-meter length.

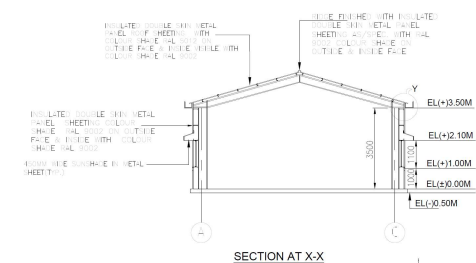
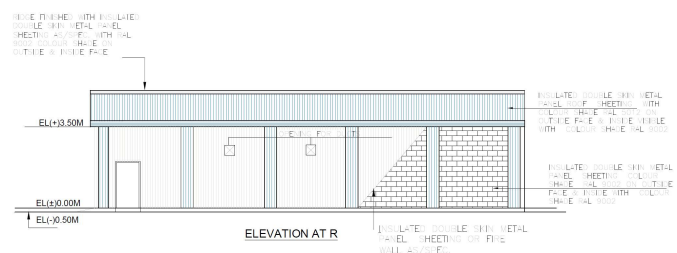
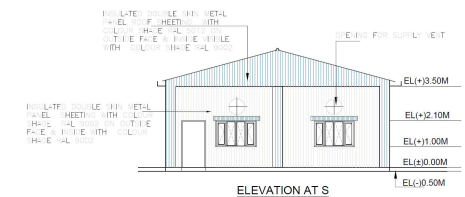
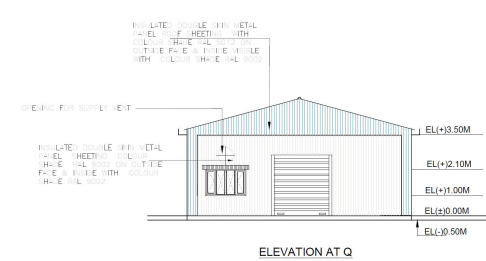
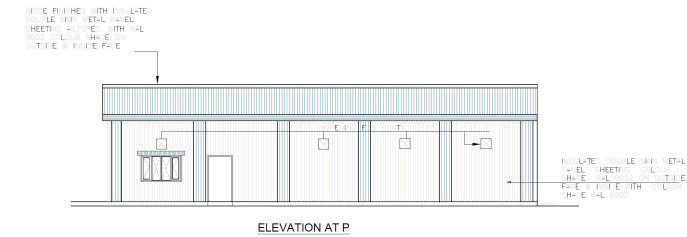
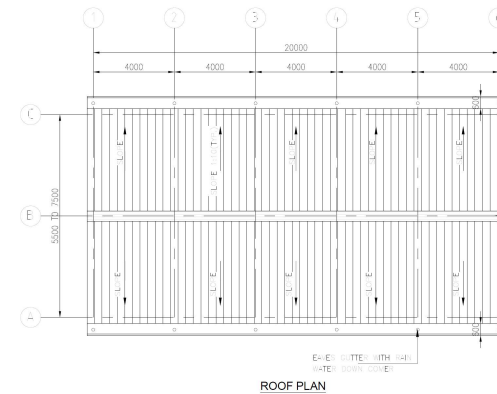
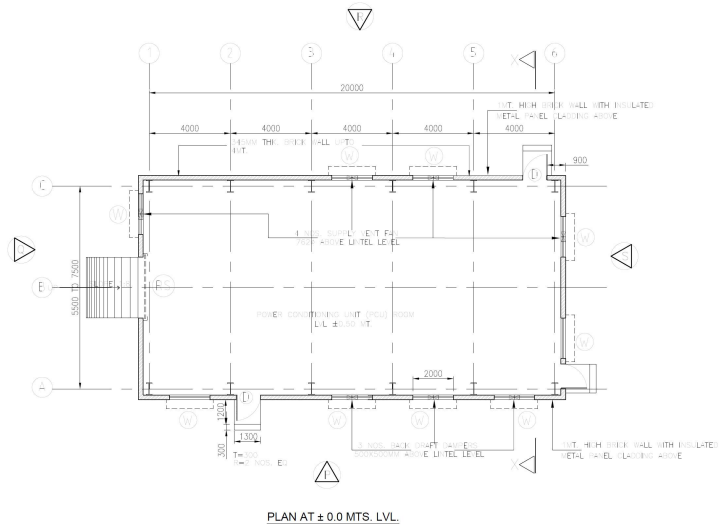


PLAN OF POSTS

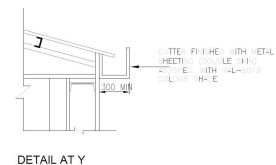
FOR TENDER PURPOSE ONLY

[illegible]





DOOR/ROLLING SHUTTER/WINDOWS/VENTS/DUCTS				
TYPE	SIZE	CLL. LVL.	UNTEL. LVL.	DESCRIPTION
D	1200X2100	0.00	2100	
RS	REFER NOTE 5 & 6	0.00	H	
WINDOWS	REFER NOTE 5 AND 6			
VENTILATORS				
DUCTS				



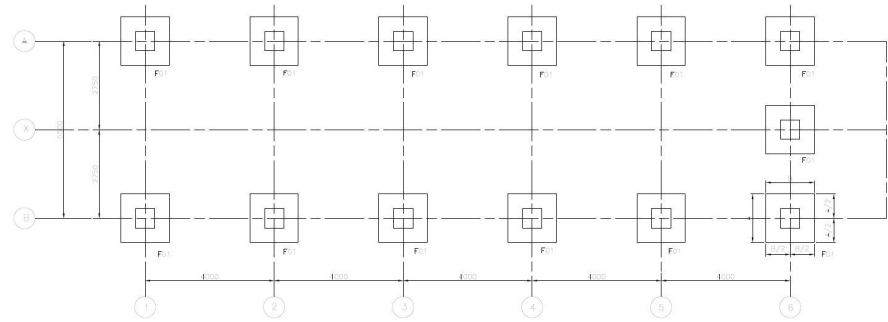
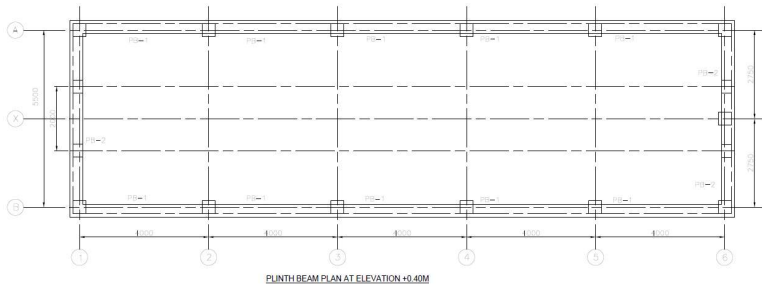
- NOTES:-
1. ALL DIMENSIONS ARE IN MM & LEVELS ARE IN METERS.
 2. DRAWING SHALL NOT BE SCALED ONLY WRITTEN DIMENSIONS SHALL BE FOLLOWED.
 3. ANY DOUBT OR DISCREPANCY IN THE DRAWING SHALL BE BROUGHT TO THE NOTICE OF THE ENGINEER-IN-CHARGE BEFORE EXECUTING THE WORK.
 4. WORK SHALL BE CARRIED OUT BASED ON DETAIL WORKING DRAWINGS TO BE PREPARED BY THE VENDOR & NOT APPROVED FROM NTPC BEFORE EXECUTION.
 5. OPENING FOR ROLLING SHUTTER, DUCTS AND VENTILATORS SHALL BE AS PER INVERTER (PBU) MANUFACTURER RECOMMENDATIONS AND VENDOR DESIGN SUBJECT ON NTPC APPROVAL.
 6. LOCATIONS OF DOOR, ROLLING SHUTTER, WINDOWS, VENTS & DUCTS ARE INDICATIVE ONLY. VENTILATION AND DUCTS SHALL BE DESIGN CONSIDERING HEAT CALCULATION OF PEB ROOM.
 7. REFER TECHNICAL SPECIFICATION FOR PEB-INVERTER ROOM IN CIVIL WORKS.

FOR TENDER PURPOSE ONLY

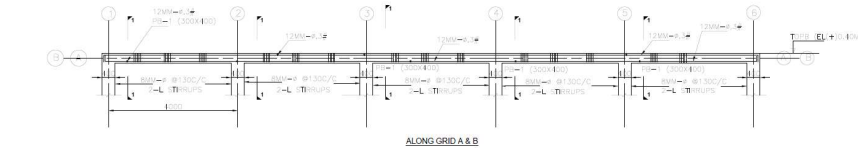
PROJECT **BALANCE OF SYSTEM PACKAGE FOR DEVELOPMENT OF 900MW (3X300MW) GRID CONNECTED SOLAR PV PROJECT AT FATEHGARH, RAJASTHAN**

TITLE **PEB INVERTER ROOM**

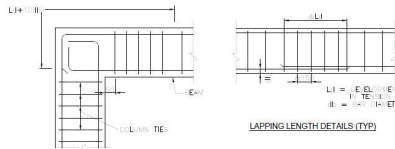
PREPARED BY	CHECKED BY	APPROVED BY	DATE	SIZE	SCALE	DRG. NO.	REV. NO.
AD	NT						RA



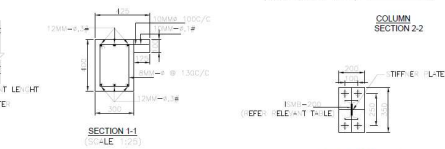
FOUNDATION FOR INVERTER ROOM
AT EL. (-1.20M)



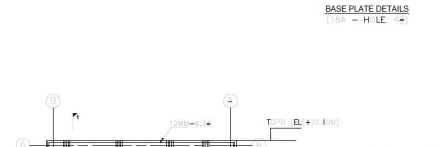
ALONG GRID A & B



FIXED END JOINT IN A COLUMN (TYP)

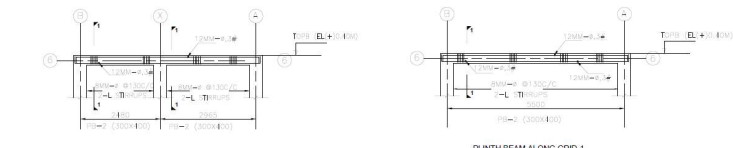


COLUMN SECTION 2-2

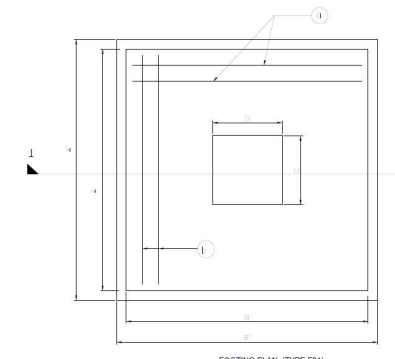


SECTION 1-1 (TYP)

BASE PLATE DETAILS



PLINTH BEAM ALONG GRID-1



FOOTING PLAN (TYPE F01)

TABLE 1, PART-A (FOR SPAN S=5.5M)

FOUNDATION REINFORCEMENT SCHEDULE									
S.NO.	SBC (IN T/2000)	COLUMN	A	B	C	D	E	F	G
1	25 <= SBC <= 30	F01	1800	1800	1800	1800	1800	1800	1800
2	30 <= SBC <= 35	F01	1800	1800	1800	1800	1800	1800	1800
3	35 <= SBC <= 40	F01	1800	1800	1800	1800	1800	1800	1800
4	40 <= SBC <= 45	F01	1800	1800	1800	1800	1800	1800	1800

TABLE 1, PART-B (FOR 5.5M < SPAN <= 6.5M)

FOUNDATION REINFORCEMENT SCHEDULE									
S.NO.	SBC (IN T/2000)	COLUMN	A	B	C	D	E	F	G
1	25 <= SBC <= 30	F01	1800	1800	1800	1800	1800	1800	1800
2	30 <= SBC <= 35	F01	1800	1800	1800	1800	1800	1800	1800
3	35 <= SBC <= 40	F01	1800	1800	1800	1800	1800	1800	1800
4	40 <= SBC <= 45	F01	1800	1800	1800	1800	1800	1800	1800

TABLE 1, PART-C (FOR 6.5M < SPAN <= 7.5M)

FOUNDATION REINFORCEMENT SCHEDULE									
S.NO.	SBC (IN T/2000)	COLUMN	A	B	C	D	E	F	G
1	25 <= SBC <= 30	F01	1800	1800	1800	1800	1800	1800	1800
2	30 <= SBC <= 35	F01	1800	1800	1800	1800	1800	1800	1800
3	35 <= SBC <= 40	F01	1800	1800	1800	1800	1800	1800	1800
4	40 <= SBC <= 45	F01	1800	1800	1800	1800	1800	1800	1800

TABLE 2

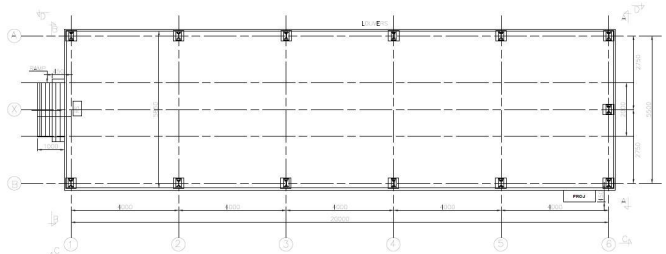
SPAN (S)	CO COLUMN / RAFTER	BASE PLATE SIZE	PEDESTAL SIZE	MAIN REINFORCEMENT OF PEDESTAL
5.5M	600x200	200x200	400x400	18A-3000
6.5M	600x200	200x200	400x400	18A-3000
7.5M	600x200	200x200	400x400	18A-3000

NOTES

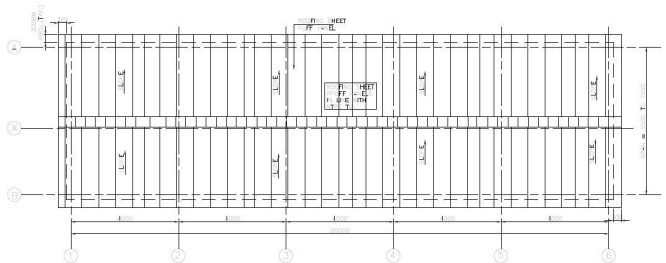
- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
- GRADE OF CONCRETE SHALL BE M-30 WITH 20mm DOWN GRADED AGGREGATES
- REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DEFORMED BAR OF GRADE Fe500 CONFORMING TO IS 1786
- MIN CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS FOOTING - 50MM, COLUMN - 50MM, PLINTH BEAM-50MM, SLAB-20MM.
- LAP LENGTH SHALL BE 50D WHERE D IS THE DIA OF THE SMALLER BAR BEING LAPPED
- LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
- ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER RELEVANT IS CODE
- BIDDER MAY CHOOSE BUILDING SPAN (C/C) FROM 5.5M TO 7.5M. FOUNDATION DETAILS HAVE BEEN MENTIONED FOR DIFFERENT RANGES OF SAFE BEARING CAPACITY (SBC). FOUNDATION COLUMN PEDESTAL, BASE PLATE, REINFORCEMENT DETAILS. SIZES ETC SHALL BE DECIDED BASED ON TABLE-1 & TABLE-2 CONSIDERING THE SBC AND C/C SPAN. IN CASE OF SBC LESS THAN 5.75M, FOUNDATION SHALL BE DESIGN BY BIDDER CONSIDERING PROJECT SPECIFIC CONDITIONS AND SHALL BE SUBMITTED FOR NTPC APPROVAL.
- NO FOUNDATION SHALL BE LAID ON BACK FILLED SOIL.
- IF ROCK IS ENCOUNTERED AT SHALLOW DEPTH, THEN FOUNDATION MAY BE PLACED AT TOP OF ROCKY STRATA, HOWEVER IN NO CASE DEPTH OF FOUNDATION SHALL BE LESS THAN 1M. SBC SHALL BE DECIDED BY GEOTECHNICAL INVESTIGATION WORK CARRIED OUT BY CONTRACTOR AND APPROVAL BY NTPC IN GEOTECHNICAL INVESTIGATION REPORT.
- DRAWING SHALL NOT BE SCALED. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
- PERIPHERAL GARLAND DRAIN SHALL BE MADE ALL AROUND THE PEB INVERTER ROOMS AND CONNECTED TO NEAR BY DRAINS.
- 750MM WIDE PLINTH PROTECTION WITH 100MM THK. PCC LAID OVER WELL COMPACTED 100MM DRY BRICK BALLAST ALL AROUND THE PEB ROOM IN LINE WITH TECHNICAL SPECIFICATION.
- THE FGL OF PEB ROOM SHALL BE MINIMUM 500MM ABOVE SURROUNDING NGL.
- ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED THE THICKNESS OF GALVANIZATION SHALL BE IN LINE WITH IS4769. HOWEVER MINIMUM THICKNESS OF GALVANIZATION SHALL BE MAINTAINED AS 110 MICRON FOR ALL MEMBERS.
- BIDDER SHALL SUBMIT THE DETAILED FABRICATION DRAWING AND PLUFF PANEL DETAILS (DEVELOPED BASED ON NTPC TENDER DRAWING AND TECHNICAL SPECIFICATION) FOR NTPC INFORMATION BEFORE START OF WORK. ALL WORKS SHALL BE EXECUTED IN LINE WITH APPROVED DRAWINGS.
- ALL BRACINGS LIKE BRC-1, BRC-2 SHALL BE CONTINUED IN EVERY ALTERNATE BAY IN CASE THE NO. OF BAYS ARE INCREASED. THE NO OF BAYS MAY BE REDUCED BASED ON BIDDER REQUIREMENT MAINTAINING THE BRACING IN EVERY ALTERNATE BAY. BIDDER SHALL ENSURE THAT THE BRACING IN BOTH THE DIAGONAL DIRECTIONS ARE PROVIDED IN PEB.
- THE OPENINGS SHOWN IN PEB ARE TENTATIVE VENDOR SHALL FINALIZE THE SAME DURING DETAILED ENGG. BASED ON NTPC APPROVAL. VENTILATION AND DUCTS SHALL BE DESIGN CONSIDERING HEAT CALCULATION AND SUBMIT FOR NTPC APPROVAL BEFORE EXECUTION/MANUFACTURING.
- THE SIZES OF FOUNDATION MENTIONED IN TABLE-1 FOR DIFFERENT RANGES OF SBC ARE MINIMUM SIZE TO BE ADOPTED BY BIDDER.
- THE SIZES OF STRUCTURAL STEEL MEMBERS IN TABLE-2 ARE MINIMUM SIZES TO BE ADOPTED FOR DIFFERENT RANGES OF SPAN.

FOR TENDER PURPOSE ONLY

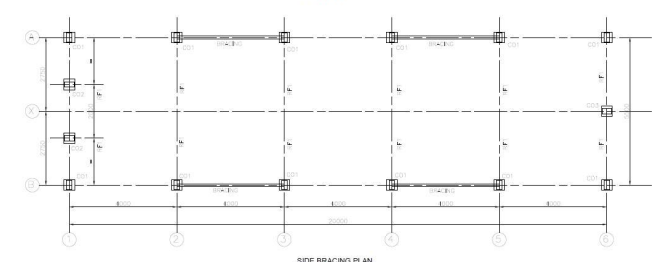
PROJECT	BALANCE OF SYSTEM PACKAGE FOR DEVELOPMENT OF 900MW (3X300MW) GRID CONNECTED SOLAR PV PROJECT AT FATEHGARH, RAJASTHAN		
TITLE	PEB INVERTOR ROOM		
PREPARED BY	CHECKED BY	APPROVED BY	DATE
SIZE	SCALE	DRG. NO.	REV. NO.
	1:1		RA



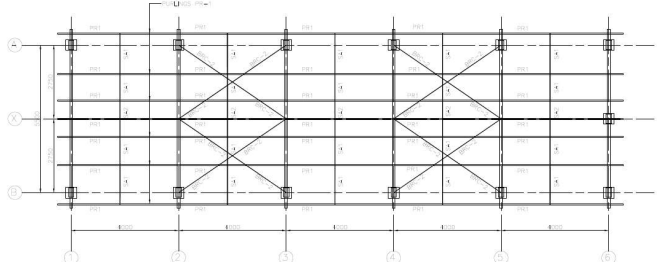
FLOOR PLAN (ELV = +0.60M)



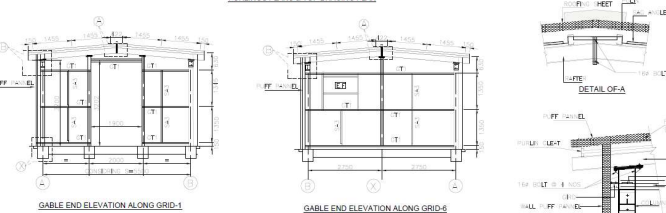
ROOF PLAN



SIDE BRACING PLAN

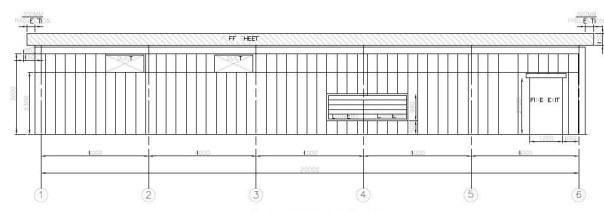


PURLINS PLANS & TOP BRACING PLAN

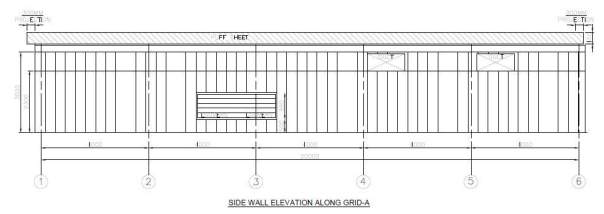


GABLE END ELEVATION ALONG GRID-1

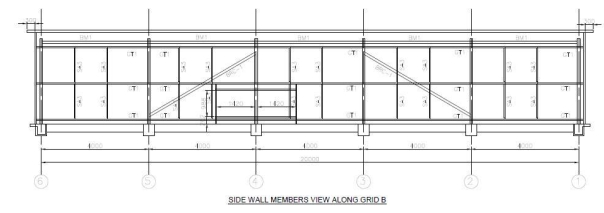
GABLE END ELEVATION ALONG GRID-6



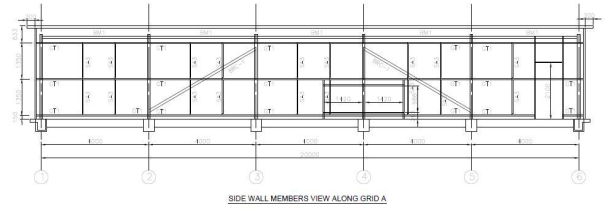
SIDE WALL ELEVATION ALONG GRID-B



SIDE WALL ELEVATION ALONG GRID-A



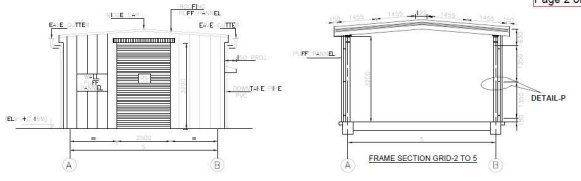
SIDE WALL MEMBERS VIEW ALONG GRID B



SIDE WALL MEMBERS VIEW ALONG GRID A

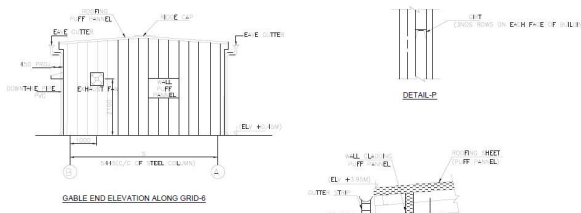
TABLE-2: BILL OF MATERIAL									
S.NO	PART MARK	DESCRIPTION	SPAN (S)			SHAPE	MATERIAL SPECIFICATION	GRADE OF MATERIAL	GALVANIZATION COATING THICKNESS
			S = 5.5M	5.5M < S ≤ 6.5M	6.5M < S ≤ 7.5M				
1	T	TOP CHORD	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
2	F	FACE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
3	L	LE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
4	U	UL	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
5	T	TOP CHORD	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
6	F	FACE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
7	L	LE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
8	U	UL	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
9	T	TOP CHORD	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
10	F	FACE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
11	L	LE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
12	U	UL	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
13	T	TOP CHORD	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
14	F	FACE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
15	L	LE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
16	U	UL	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
17	T	TOP CHORD	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
18	F	FACE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
19	L	LE	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100
20	U	UL	1000x100x10	1000x100x10	1000x100x10	∟	FE	250	≥ 100

* PURLIN CHORD SHALL BE 1000x100x10 MM PER ALL CASES IF NOT SPECIFIED



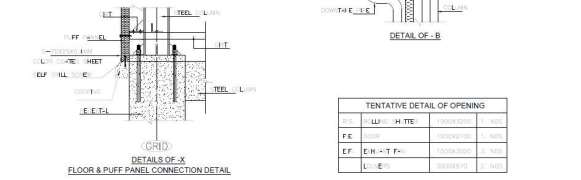
GABLE END ELEVATION ALONG GRID-1

GABLE END ELEVATION ALONG GRID-6



DETAIL OF A

DETAIL OF B



TENTATIVE DETAIL OF OPENING			
GRID	FE	250	≥ 100
GRID	FE	250	≥ 100
GRID	FE	250	≥ 100
GRID	FE	250	≥ 100

NOTES

- ALL DIMENSIONS ARE IN MILLIMETERS, UNLESS OTHERWISE SPECIFIED.
- GRADE OF CONCRETE SHALL BE M-30 WITH 20mm DOWN GRADED AGGREGATES
- REINFORCEMENT SHALL BE OF HIGH YIELD STRENGTH DEFORMED BAR OF GRADE Fe500 CONFORMING TO IS: 1786
- MIN CLEAR COVER TO MAIN REINFORCEMENT SHALL BE AS FOLLOWS FOOTING - 50MM, COLUMN - 50MM, PLINTH BEAM-50MM, SLAB-20MM
- LAP LENGTH SHALL BE 50D WHERE D IS THE DIA OF THE SMALLER BAR BEING LAPPED
- LAPPING OF BARS SHALL BE SUITABLY STAGGERED AND IN NO CASE MORE THAN 50% BARS SHALL BE LAPPED AT ANY SECTION.
- ALL HOOKS, BENDS, LAPS AND SPLICES SHALL BE AS PER RELEVANT IS CODE
- BIDDER MAY CHOOSE BUILDING SPAN (CO) FROM 5.5M TO 7.5M. FOUNDATION DETAILS HAVE BEEN MENTIONED FOR DIFFERENT RANGES OF SAFE BEARING CAPACITY (SBC). FOUNDATION COLUMN, PEDESTAL, BASE PLATE, REINFORCEMENT DETAILS, SIZES ETC SHALL BE DECIDED BASED ON TABLE-1 & TABLE-2 CONSIDERING THE SBC AND CO-SPAN. IN CASE OF SBC LESS THAN 5 T/M, FOUNDATION SHALL BE DESIGN BY BIDDER CONSIDERING PROJECT SPECIFIC CONDITIONS AND SHALL BE SUBMITTED FOR NTPC APPROVAL.
- NO FOUNDATION SHALL BE LAID ON BACK FILLED SOIL.
- IF ROCK IS ENCOUNTERED AT SHALLOW DEPTH THEN FOUNDATION MAY BE PLACED AT TOP OF ROCKY STRATA, HOWEVER IN NO CASE DEPTH OF FOUNDATION SHALL BE LESS THAN 1M. SBC SHALL BE DECIDED BY GEOTECHNICAL INVESTIGATION WORK CARRIED OUT BY CONTRACTOR AND APPROVAL BY NTPC IN GEOTECHNICAL INVESTIGATION REPORT
- DRAWING SHALL NOT BE SCALED. ONLY WRITTEN DIMENSION SHALL BE FOLLOWED.
- PERIPHERAL GARLAND DRAIN SHALL BE MADE ALL AROUND THE PEB INVERTER ROOMS AND CONNECTED TO NEAR BY DRAINS.
- 750MM WIDE PLINTH PROTECTION WITH 75MM THK. PCC LAID OVER WELL COMPACTED 75MM DRY BRICK BALLAST ALL AROUND THE PEB ROOM IN LINE WITH TECHNICAL SPECIFICATION.
- THE FOL OF PEB ROOM SHALL BE MINIMUM 500MM ABOVE SURROUNDING NGL.
- ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED. THE THICKNESS OF GALVANIZATION SHALL BE IN LINE WITH IS4759. HOWEVER MINIMUM THICKNESS OF GALVANIZATION SHALL BE MAINTAINED AS 110 MICRON FOR ALL MEMBERS.
- BIDDER SHALL SUBMIT THE DETAILED FABRICATION DRAWING AND PUFF PANEL DETAILS (DEVELOPED BASED ON NTPC TENDER DRAWING AND TECHNICAL SPECIFICATION) FOR NTPC INFORMATION BEFORE START OF WORK. ALL WORKS SHALL BE EXECUTED IN LINE WITH APPROVED DRAWINGS.
- ALL BRACING LIKE BRC-1, BRC-2 SHALL BE CONTINUED IN EVERY ALTERNATE BAY IN CASE THE NO. OF BAYS ARE INCREASED. THE NO OF BAYS MAY BE REDUCED BASED ON BIDDER REQUIREMENT MAINTAINING THE BRACING IN EVERY ALTERNATE BAY. BIDDER SHALL ENSURE THAT THE BRACING IN BOTH THE DIAGONAL DIRECTIONS ARE PROVIDED IN PEB.
- THE OPENINGS SHOWN IN PEB ARE TENTATIVE. VENDOR SHALL FINALIZE THE SAME DURING DETAILED ENGG. BASED ON NTPC APPROVAL. VENTILATION AND DUCTS SHALL BE DESIGN CONSIDERING HEAT CALCULATION AND SUBMIT FOR NTPC APPROVAL BEFORE EXECUTION/MANUFACTURING.
- THE SIZES OF FOUNDATION MENTIONED IN TABLE-1 FOR DIFFERENT RANGES OF SBC ARE MINIMUM SIZE TO BE ADOPTED BY BIDDER.
- THE SIZES OF STRUCTURAL STEEL MEMBERS IN TABLE-2 ARE MINIMUM SIZES TO BE ADOPTED FOR DIFFERENT RANGES OF SPAN.

FOR TENDER PURPOSE ONLY

PROJECT **BALANCE OF SYSTEM PACKAGE FOR DEVELOPMENT OF 900MW (3X300MW) GRID CONNECTED SOLAR PV PROJECT AT FATEHGARH, RAJASTHAN**

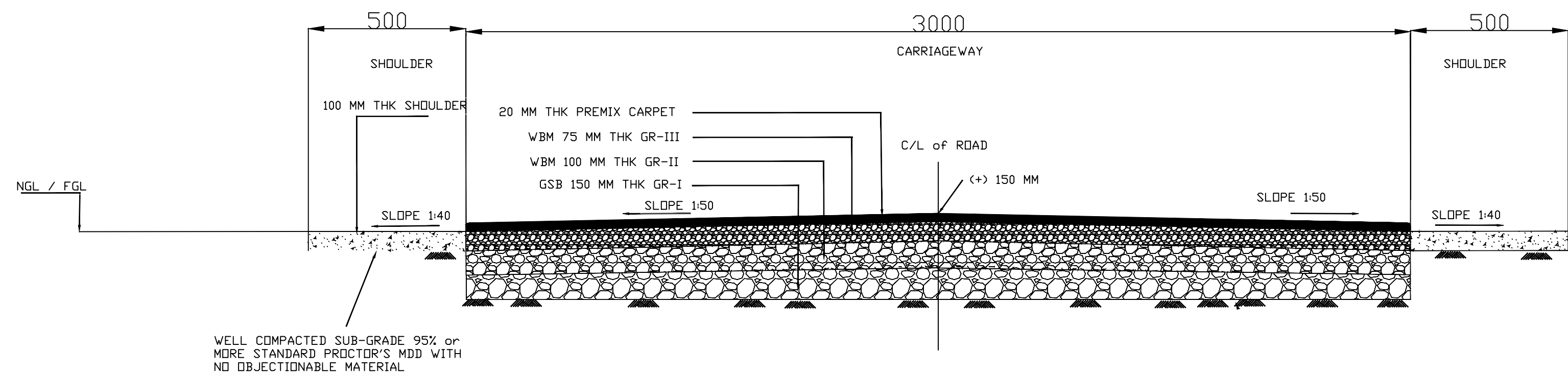
TITLE **PEB INVERTOR ROOM**

PREPARED BY _____ CHECKED BY _____ APPROVED BY _____ DATE _____

SIZE _____ SCALE _____ DRG. NO. _____ REV. NO. _____

RA

TYPICAL CROSS SECTION OF INTERNAL ROADS (Inside the Plot)



TYPICAL SECTION FOR INTERNAL ROADS

For main approach roads in the scope of the bidder as per vicinity map drawing, the carriageway width shall be 3.75m

NOTES:

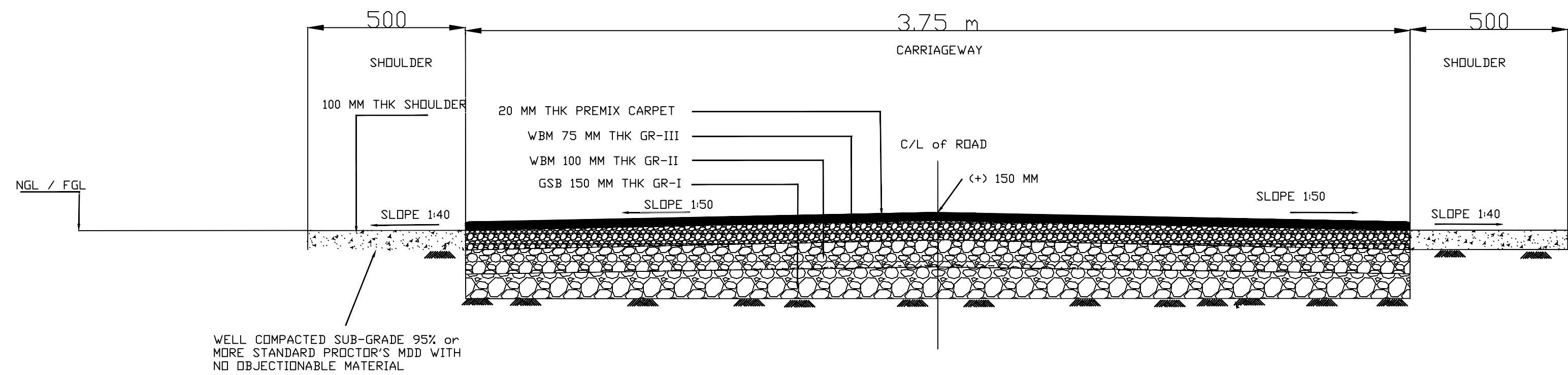
1. ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS.
2. THE LEVEL AT THE TOP OF THE ROAD SHALL CORRESPOND TO THE LEVEL AT THE TOP OF BITUMINOUS CARPET AT THE CENTER OF THE ROAD.
3. CAMBER SHALL BE PROVIDED AT SUB-GRADE LEVEL
4. CBR VALES OF THE SUB-GRADE LEVEL SHOULD BE MAX. 4%. IF THE ACTUAL CBR IS LESS THAN 4% IN A PARTICULAR STRETCH THEN THE SAME MATERIAL SHALL BE MODIFIED WITH INCREASE IN GSB THICKNESS.
5. THE SHOULDERS ON BOTH SIDE OF THE ROAD SHALL BE PROPERLY COMPACTED.
6. THE ROAD SHALL BE MINIMUM 150 MM ABOVE FGL.
7. WBM 100 MM THK AMY BE MODIFIED TO 75 MM THK FOR WBM CONSTRUCTION WITH CORRESPONDING INCREASE OF 50 MM IN GSB THICKNESS.
8. INTERNAL ROADS WOULD BE SUITABLY CONNECTED WITH SLOPING CONNECTION WITH APPROACH ROAD BY THE BIDDER .

For approach roads in the scope of the bidder as per vicinity map tender drawing (if any), the carriage way width shall be 3.75m.

For main approach roads in the scope of the bidder as per vicinity map drawin

FOR TENDER PURPOSE ONLY	PROJECT			
	BALANCE OF SYSTEM PACKAGE FOR DEVELOPMENT OF 900MW (3x300MW) GRID CONNECTED SOLAR PV PROJECT AT FATEHGARH, RAJASTHAN			
	TITLE			
TYPICAL DETAILS OF INTERNAL ROAD				
PREPARED BY	CHECKED BY	APPROVED BY	DATE	SIZE
	CIVIL ELE.			AO
				SCALE
				NTS
				DRG. NO.
				5787-004(BOS1)-POC-A-006A
				REV. NO.
				R1

TYPICAL CROSS SECTION OF APPROACH ROADS



TYPICAL SECTION FOR APPROACH ROADS

NOTES:

- 1. ALL DIMENSIONS ARE IN MM AND LEVELS IN METERS.
- 2. THE LEVEL AT THE TOP OF THE ROAD SHALL CORRESPOND TO THE LEVEL AT THE TOP OF THE ROAD. THE LEVEL AT THE TOP OF THE ROAD SHALL CORRESPOND TO THE LEVEL AT THE TOP OF BITUMINOUS CARPET AT THE CENTER OF THE ROAD.
- 3. CAMBER SHALL BE PROVIDED AT SUB-GRADE LEVEL
- 4. CBR VALES OF THE SUB-GRADE LEVEL SHOULD BE MAX. 4%. IF THE ACTUAL CBR IS LESS THAN 4% IN A PARTICULAR STRETCH THEN THE SAME MATERIAL SHALL BE MODIFIED WITH INCREASE IN GSB THICKNESS.
- 5. THE SHOULDERS ON BOTH SIDE OF THE ROAD SHALL BE PROPERLY COMPACTED.
- 6. THE ROAD SHALL BE MINIMUM 150 MM ABOVE FGL.
- 7. WBM 100 MM THK MAY BE MODIFIED TO 75 MM THK FOR WBM CONSTRUCTION WITH CORRESPONDING INCREASE OF 50 MM IN GSB THICKNESS.
- 8. APPROACH ROADS WOULD BE SUITABLY CONNECTED WITH SLOPING APPROACHES WITH MAIN APPROACH ROAD BY THE BIDDER.

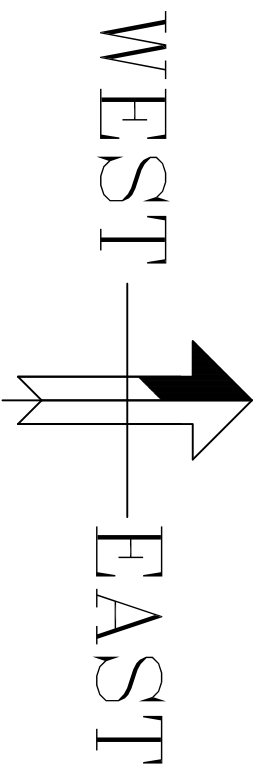
FOR TENDER PURPOSE ONLY	PROJECT				PROJECT SPECIFIC			
					TITLE			
					TYPICAL DETAILS OF APPROACH ROAD			
PREPARED BY	CHECKED BY		APPROVED BY	DATE	SIZE	SCALE	DRG. NO.	REV. NO.
	CIVIL	ELE.			A0	NTS	XXXX-004(XXX)-POC-A-006B	

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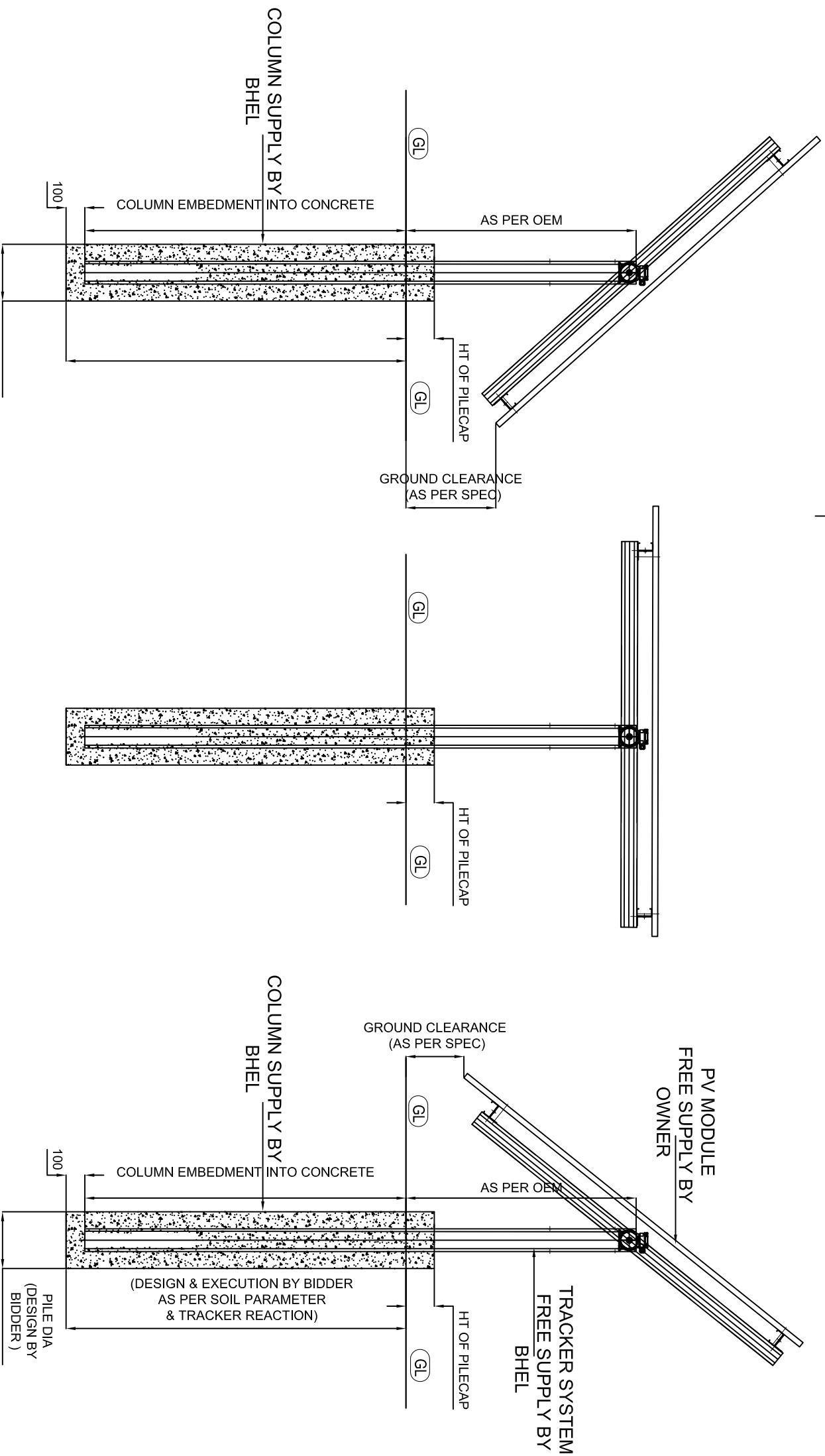
PROJECT		BALANCE OF SYSTEM PACKAGE FOR DEVELOPMENT OF 900MW (3X300MW) GRID CONNECTED SOLAR PV PROJECT AT FATEHGARH, RAJASTHAN	
TITLE		BLOCK SINGLE LINE DIAGRAM	
SIZE	SCALE	DRG. NO.	REV. NO.
	NTS		R1

PREPARED BY	CHECKED BY		APPROVED BY	DATE
RR	CIVIL	ELE.	DJ	
		JPP		





TENDER PURPOSE ONLY

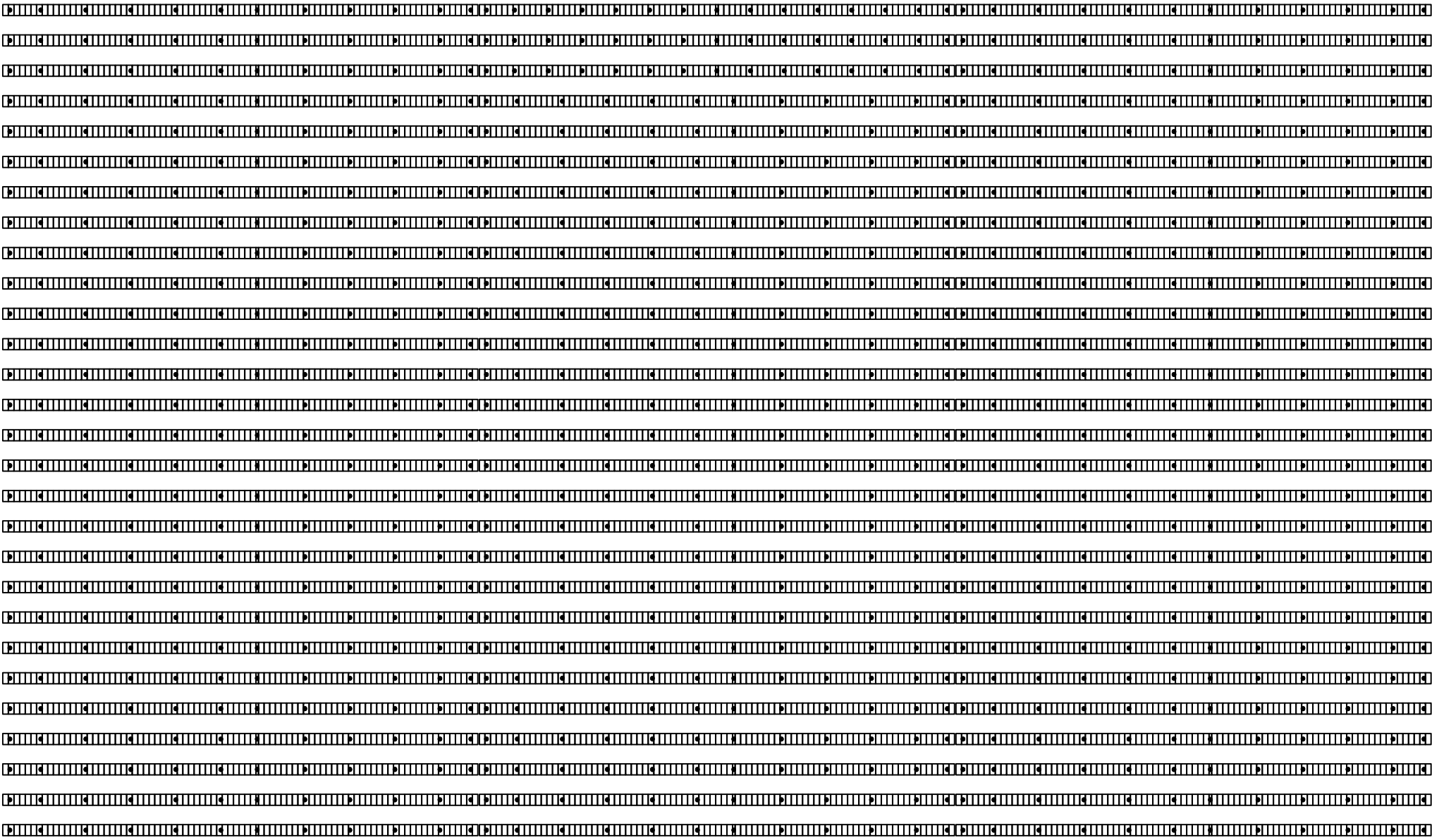
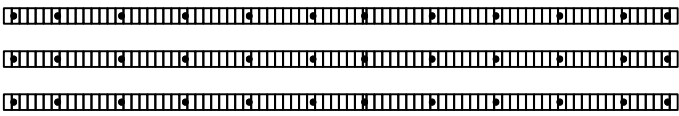
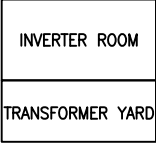


MAX. EASTERN TILT
(MORNING)

INTERMITTENT TILT
DURING OPERATION
(NOON)

MAX. WESTERN TILT
(EVENING)

TRACKER SYSTEM TENTATIVE ARRANGEMENT



NOTES

1. ALL DIMENSIONS ARE IN MM AND DECIMALS ARE IN METERS

2. DONOT SCALE THE DRAWING FOLLOW WRITTEN DIMENSIONS ONLY

3. DIMENSION, PER SPACING & TABLE LENGTH WILL VARY BASED UPON INVERTER OWNER'S OWN DESIGN

TENDER PURPOSE ONLY

TRACKER SYSTEM TENTATIVE ARRAY LAYOUT FOR SINGLE INVERTER ROOM