SOLAR CANOPY

FOR

ENTERSOLAR

AT

IBM

1101 KITCHAWAN RD.

YORKTOWN HEIGHTS, NY 10598

SYMBOLS LEGEND

NORTH ARROW

FLOOR 0'-0" — DATUM LOCATION ELEVATION

SECTION — SECTION ID — SHEET NUMBER

ELEVATION — ELEVATION ID — SHEET NUMBER

DETAIL — DETAIL ID — SHEET NUMBER

SLOPE DOWN — CANOPY SLOPE

GOVERNING CODE

INTERNATIONAL BUILDING CODE (IBC 2015/NY STATE AMENDMENTS & FM GLOBAL)

CONSTRUCTION TYPE: IIB

RISK CATEGORY: II

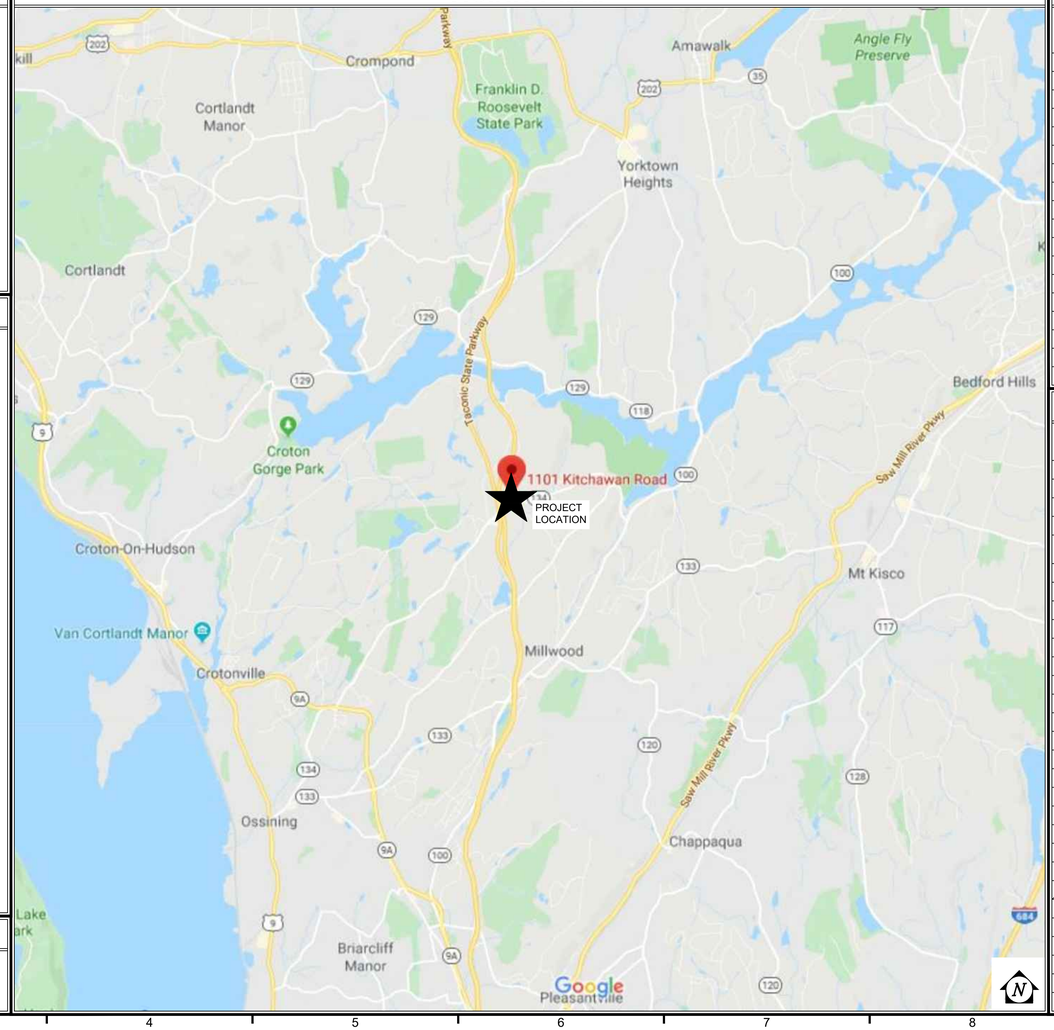
DESIGN LOADS:

1. DEAD LOADS:
   - STRUCTURE: 5.0 PSF
   - GLAZING: 3.0 PSF
   - Σ = 8.0 PSF
2. ROOF LIVE LOAD = 12 PSF
3. SNOW LOAD:
   - P_g = 30 PSF (GROUND SNOW)
   - P_f^0 = 24.9 PSF (ROOF SNOW)
   - C_e = 0.9
   - C_t = 1.2
   - I_s = 1.10
4. WIND LOAD: (MAIN WIND FORCE RESISTING SYSTEM)
   - V_{ult} = 124 MPH
   - V_{asd} = 96 MPH
   - I_w = 1.00
   - EXPOSURE: C
5. SEISMIC: (LOADS PARALLEL AND PERPENDICULAR TO CANOPY FRAMES)
   - S_s = 0.255
   - S_1 = 0.071
   - S_{DS} = 0.271
   - S_{d1} = 0.114
   - I_{se} = 1.25
   - SITE CLASS: D
   - SEISMIC DESIGN CATEGORY: B
   - SEISMIC FORCE RESISTING SYSTEM = CANTILEVERED COLUMN SYSTEM
   - DESIGN BASE SHEAR: V = 2.168 PSF; C_s = 0.271; R = 1.25
   - EQUIVALENT LATERAL FORCE ANALYSIS

SOLAR CANOPY SYSTEM SPECIFICATIONS

PV MODULE TYPE	:	JA SOLAR	ACTIVE PV MODULES	:	13860
MODULE MODEL #	:	JAM72S10 405/MR	SPARE PV MODULES	:	-
ARRAY TYPE	:	FIXED TILT	TOTAL PV MODULES	:	13860
ARRAY TILT	:	# DEGREES	TOTAL WATTS	:	5.6133 MW DC

VICINITY MAP



DRAWING INDEX

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SC104	FOUNDATION AND COLUMN PLAN	2
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RESPONSIBILITY SCHEDULE

ITEM DESCRIPTION	N/A	RBI SOLAR FURN.	RBI SOLAR INST.	CUSTOMER FURN.	CUSTOMER INST.	REMARKS
GEOTECHNICAL REPORT				●		
SITE SURVEY				●		EXISTING CONDITIONS - TOPO & LOCATE COLUMNS
CONSTRUCTION SURVEY		●				VERIFY COLUMN LOCATIONS
CORROSION ANALYSIS	●					
LOCATE SUBSURFACE UTILITIES/STRUCTURES				●		PRIVATE UTILITY LOCATE
SITE GRADING	●					
SPOILS REMOVAL				●		
FENCING				●		
TEMPORARY ELECTRIC				●		
PORTABLE TOILET				●		
MATERIAL UNLOADING		●				
MATERIAL STAGING		●				
DUMPSTER/REFUSE REMOVAL				●		
FOUNDATIONS		●	●			
ANCHOR BOLTS		●	●			
PV MODULES			●	●		
PV MODULE MOUNTING HDW		●	●			
PV MODULE GROUNDING HDW		●	●			
WIRE MANAGEMENT				●	●	
CANOPY GROUNDING				●	●	
SITE CLEAN-UP		●				
SPECIAL INSPECTIONS				●		
FOUNDATION GROUNDING				●	●	
OPTIONAL ADD-ONS						
RAISED PIERS	●					
DECKING	●					
GUTTERS & DOWNSPOUTS	●					
SNOW GUARDS	●					
FASCIA/PURLIN ENCLOSURE	●					

T.B.D.

RBI SOLAR

Total Solar Service: Design * Fabrication Installation * Parts * Repair Service

5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

NOT FOR CONSTRUCTION

RBI SOLAR IS NOT RESPONSIBLE FOR CONSTRUCTION THAT IS BUILT FROM SET LABELED "NOT FOR CONSTRUCTION"

SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW (R1)
1	10/15/20	75% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
IBM

1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.:
1940117

DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE:
COVER SHEET

SHEET No.:
SC001

GENERAL NOTES

CONSTRUCTION AND SAFETY:

1. ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE APPLICABLE CONSTRUCTION CODE AND THE PROJECT SPECIFICATIONS.
2. ENGINEER SHALL NOT BE RESPONSIBLE FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OF CONSTRUCTION SELECTED BY CONTRACTOR.
3. CONTRACTOR SHALL FIELD MEASURE AND VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. ANY UNEXPECTED CONDITIONS OR DISCREPANCIES WITH THE DESIGN DOCUMENTS SHALL BE REPORTED TO THE ENGINEER PRIOR TO INSTALLATION OR ERECTION OF MATERIALS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDITIONS OF THE JOB SITE INCLUDING SAFETY OF PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK.
5. NO PERSONNEL SHALL STEP OR STAND ON PV MODULES (SOLAR PANELS) AT ANY TIME. CANOPY STRUCTURE AND PV MODULES ARE NOT DESIGNED FOR LIVE LOADS AND MAY VOID WARRANTY.

MISCELLANEOUS:

1. THIS SUBMITTAL/CONSTRUCTION SET WAS PRODUCED FROM DOCUMENTS RECEIVED FROM CUSTOMER ON 10/14/19. RBI SOLAR IS NOT RESPONSIBLE FOR DISCREPANCIES FROM ACTUAL FIELD DIMENSIONS.
2. THIS RBI SOLAR CONSTRUCTION SET IS DESIGNED FROM PV MODULE DATA SHEET(S) PROVIDED BY THE CUSTOMER. CUSTOMER IS RESPONSIBLE FOR VERIFYING THAT THE PV MODULE(S) DELIVERED TO SITE MATCH DATA SHEET(S) PROVIDED TO RBI SOLAR. RBI SOLAR IS NOT RESPONSIBLE FOR PV MODULE DIMENSIONAL DISCREPANCIES DUE TO FURNISHED PV MODULES NOT MATCHING CUSTOMER FURNISHED PV MODULE DATA SHEETS.

SPECIAL FIELD INSPECTIONS:

SPECIAL INSPECTION NOT REQUIRED BY RBI SOLAR. AS REQUIRED BY OWNER/CUSTOMER AND/OR AUTHORITY HAVING JURISDICTION, MINIMUM INSPECTION SHALL INCLUDE THE FOLLOWING NOTES AND TABLE:

1. ALL SPECIAL INSPECTORS SHALL BE RETAINED BY OWNER/CUSTOMER. THE EXTENT OF THE INSPECTION SHALL COMPLY WITH THE CONTRACT DOCUMENTS, THE BUILDING CODE REQUIREMENTS, AND LOCAL JURISDICTION. IT IS THE OWNER'S/CUSTOMER'S RESPONSIBILITY TO GIVE PROPER NOTIFICATION TO THE SPECIAL INSPECTOR AND PROCEED WITH THE WORK ONLY AFTER THE SPECIAL INSPECTOR'S APPROVAL.
2. FAILURE TO NOTIFY THE SPECIAL INSPECTOR MAY RESULT IN OWNER/CUSTOMER HAVING TO REMOVE WORK FOR THE PURPOSE OF INSPECTION AT THE OWNER'S/CUSTOMER'S EXPENSE.
3. PREMATURE NOTIFICATION FOR INSPECTION WILL RESULT IN AN ADDITIONAL INSPECTION WITH ALL EXPENSES AND FEES PAID BY THE OWNER/CUSTOMER.
4. SPECIAL INSPECTORS SHALL KEEP RECORDS OF ALL INSPECTIONS. RECORDS SHALL BE FURNISHED TO THE OWNER, ENGINEER OF RECORD, AND LOCAL JURISDICTION AS REQUIRED. ANY AND ALL DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR. CORRECTIONS SHALL BE MADE AND A FINAL REPORT OF INSPECTIONS SHALL BE PROVIDED NOTING COMPLETION OF INSPECTIONS AND CORRECTIONS OF DISCREPANCIES. FAILURE TO CORRECT DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER OF RECORD AND THE LOCAL JURISDICTION AND MAY RESULT IN REMOVAL OF COMPLETED WORK AND ADDITIONAL WORK TO CORRECT DISCREPANCIES AT THE CONTRACTOR'S EXPENSE.

IBC TABLE 1705		
STRUCTURAL STEEL/ALUMINUM FABRICATION	CONTINUOUS	PERIODIC
MATERIAL IDENTIFICATION		X
HIGH STRENGTH BOLTS - MATERIAL IDENTIFICATION OF BOLTS, NUTS AND WASHERS		X
WELD FILLER MATERIALS - IDENTIFICATION AND CONFIRMATION OF COMPLIANCE WITH DESIGN DOCUMENTS		X
STRUCTURAL STEEL/ALUMINUM ERECTION		
MATERIAL IDENTIFICATION		X
INSTALLATION OF HIGH STRENGTH BOLTS		X
WELDED CONNECTIONS		X
MEMBER SIZES AND PLACEMENT		X
GENERAL CONFORMANCE WITH DESIGN DOCUMENTS		X
CONCRETE CONSTRUCTION		
MATERIAL IDENTIFICATION		X
MIX DESIGN VERIFICATION		X
SIZE AND PLACEMENT OF REINFORCING STEEL		X
PLACEMENT OF CONCRETE USING PROPER TECHNIQUES		X
CONCRETE SAMPLES FOR SLUMP, AIR CONTENT, TEMPERATURE, STRENGTH TESTS, ETC. IN ACCORDANCE WITH ACI 318		X
PROPER MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X
FOUNDATIONS		
SIZE AND LOCATION OF FOUNDATION EXCAVATIONS		X
PLACEMENT OF REINFORCING STEEL AS REQUIRED		X

STRUCTURAL STEEL:

1. ALL STRUCTURAL STEEL SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE LATEST VERSION OF AISC "MANUAL OF STEEL CONSTRUCTION." LIGHT GAGE COLD-FORMED SECTIONS SHALL CONFORM TO LATEST VERSION OF AISI SPECIFICATIONS FOR COLD-FORMED STEEL STRUCTURAL MEMBERS.
2. MATERIALS:

A.	ROLLED SHAPES:	ASTM A992 OR A572 GRADE 50, F_Y = 50 KSI MINIMUM
B.	PLATES:	ASTM A529 GRADE 50
C.	TUBULAR SHAPES:	ASTM A500 GRADE C, F_Y = 50 KSI MINIMUM
D.	FIELD BOLTS (TYP. U.N.O):	SAE J429 GRADE 5 AND/OR ASTM F3125 GRADE A325
E.	SCREWS:	#12 TEKS - GALVANIZED
F.	COLD-FORMED/LIGHT GAGE	ASTM A653
G.	ANCHOR RODS	ASTM A193 B7 OR ASTM F1554 GRADE 105
H.	STAINLESS STEEL	TYPE 304 MINIMUM

3. TEK SCREWS ARE TO BE INSTALLED USING A 2500 RPM MAX. NON-IMPACTING VARIABLE SPEED DRILL WITH CLUTCH OUT.
4. FIELD CONNECTIONS SHALL BE BOLTED EXCEPT WHERE WELDED CONNECTIONS ARE INDICATED ON THE STRUCTURAL DRAWINGS. ALL BOLTED CONNECTIONS SHALL BE INSTALLED TO THE "SNUG TIGHT" CONDITION DEFINED AS THE FULL EFFORT OF A MAN USING A NORMAL SPUD WRENCH OR A FEW IMPACTS OF AN IMPACT WRENCH. THE "SNUG TIGHT" CONDITION WILL ENSURE THE PLIES OF CONNECTED MATERIAL ARE IN FIRM CONTACT.
5. ALL PV MODULE MOUNTING HARDWARE SHALL BE INSTALLED AND TORQUED PER PV MODULE MANUFACTURER'S RECOMMENDATIONS. CONNECTIONS USING WEEB BONDING WASHERS SHALL BE PER RBI INSTALLATION MANUAL - MINIMUM OF 12 FT-LBS FOR 5/16" MOUNTING HARDWARE AND 6 FT-LBS FOR 1/4" MOUNTING HARDWARE.
6. ALL WELDING OF STEEL SHALL BE DONE IN ACCORDANCE WITH THE LATEST VERSION OF THE AMERICAN WELD SOCIETY'S SPECIFICATIONS - AWS D1.1. ELECTRODES SHALL BE E70 SERIES UNLESS NOTED OTHERWISE.
7. GALVANIZING SPECIFICATIONS - GALVANIZING SHALL BE PER CONTRACT DOCUMENTS
   A. HOT-DIPPED GALVANIZING SHALL BE PER ASTM A123.
   B. PRE-GALVANIZED MATERIALS SHALL COMPLY WITH ASTM A653 - G90 MINIMUM.
   C. ALL STRUCTURAL HARDWARE (NOT PV MODULE MOUNTING HARDWARE) SHALL BE GALVANIZED..

MISCELLANEOUS FASTENERS:

1. ALL BOLTS SHALL BE THE TYPE AND SIZE INDICATED ON DRAWINGS.
2. ALL HARDWARE USED FOR MOUNTING PV MODULES SHALL BE STAINLESS STEEL UNLESS NOTED OTHERWISE.

WORK BY OTHERS:

1. ALL SHADING ANALYSIS AND/OR PRODUCTION ANALYSIS SHALL BE PERFORMED AND VERIFIED BY OTHERS. RBI SOLAR IS NOT RESPONSIBLE FOR PV SYSTEM DESIGN AS IT PERTAINS TO ELECTRICAL OR PV SYSTEM PRODUCTION.
2. ITEMS AS DESIGNATED IN RESPONSIBILITY SCHEDULE ON SHEET SC001.

FOUNDATIONS/CONCRETE:

1. THE FOUNDATION DESIGN IS BASED ON GEOTECHNICAL REPORT PREPARED BY: TERRACON DATED 7/15/20. BEARING CAPACITY OF SOIL AT PIER TIP: 4800 psf
2. ALLOWABLE LATERAL BEARING PRESSURE MAY BE DOUBLED DUE TO THE STRUCTURES NOT BEING ADVERSELY AFFECTED BY 1/2" MOTION AT THE GROUND SURFACE DUE TO SHORT-TERM LATERAL LOADS PER 2013 CBC 1806A.3.4.
3. ALLOWABLE LATERAL BEARING PRESSURE MAY BE CONSIDERED TO ACT OVER AN AREA EQUAL TO TWO TIMES THE PIER DIAMETER DUE TO LARGE PIER SPACING. IF THIS IS ALLOWED, THE ALLOWABLE LATERAL BEARING PRESSURE MAY BE DOUBLED, ACTING OVER THE ACTUAL PIER DIAMETER.
4. FOR VERTICAL LOADING, THE FOUNDATION DEPTHS SHOWN IN THE SCHEDULES ARE DESIGNED BASED ON EITHER END BEARING OR SKIN FRICTION, WHERE SKIN FRICTION HAS BEEN BASED ON 2013 CBC 1810A.3.3.1.4 (i.e., SKIN FRICTION BASED ON 1/6 THE VALUE OF END BEARING, AND END BEARING AND SKIN FRICTION NOT BEING COMBINED).
5. VARIATIONS IN SOIL CONDITIONS SHALL BE REPORTED TO GEOTECHNICAL ENGINEER AND ENGINEER OF RECORD RESPONSIBLE FOR FOUNDATION DESIGN PRIOR TO INSTALLATION OF ANY FOUNDATION MATERIALS.
6. INSTALLER/CONTRACTOR SHALL COORDINATE PLACEMENT OF FOUNDATIONS AND/OR ANCHOR BOLTS PER DESIGN DRAWINGS AND/OR MANUFACTURER'S SPECIFICATIONS.
7. RBI SOLAR, INC. DESIGNS FOUNDATIONS BASED ON SOIL PROPERTIES OUTLINED IN CERTIFIED GEOTECHNICAL REPORTS. ALL DESIGNS ASSUME UNDISTURBED SOIL CONDITIONS, AND DO NOT TAKE INTO ACCOUNT TRENCHING NEAR FOUNDATIONS. FOR CASES WHERE TRENCHING FOR ELECTRICAL WORK IS AT OR NEAR A FOUNDATION, RBI SOLAR RECOMMENDS A MINIMUM OF 3'-0" CLEAR FROM THE EDGE OF THE TRENCH TO THE EDGE OF THE FOUNDATION FOR "NORMAL GOOD SOIL CONDITIONS." IN CASES OF "POOR SOIL" CONDITIONS, RBI SOLAR RECOMMENDS A MINIMUM CLEAR DISTANCE EQUAL TO OR GREATER THAN THE DEPTH OF THE FOUNDATION. IF IN DOUBT OF SOIL CONDITIONS, RBI SOLAR RECOMMENDS CONSULTING A QUALIFIED GEOTECHNICAL ENGINEER TO ASSESS SOIL CONDITIONS AT THE SITE.

   NOTE: TRENCHING/EXCAVATION WITHIN 3'-0" OF ANY FOUNDATION REQUIRES REPLACING THE ORIGINAL SOIL AND COMPACTION TO 95% STANDARD PROCTOR DENSITY. FOR FURTHER CLARIFICATION ON COMPACTION REQUIREMENTS, RBI SOLAR RECOMMENDS CONSULTING A QUALIFIED GEOTECHNICAL ENGINEER.
8. ALL CONCRETE WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE LATEST VERSION OF ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE".
9. CONCRETE MIX DESIGNS MUST HAVE ENGINEER OF RECORD APPROVAL PRIOR TO COMMENCEMENT OF ANY CONCRETE WORK.
10. REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60 BILLET STEEL.
11. MINIMUM CONCRETE COVER TO REINFORCING STEEL SHALL BE AS FOLLOWS: CONCRETE CAST AGAINST EARTH = 3.0".
12. CONCRETE STRENGTH: 4000 PSI AT 28 DAYS MINIMUM (WITH +/-4" SLUMP).
13. REINFORCEMENT DETAILS PER ACI 318 AND IBC.
14. BASE PLATE GROUT: NON-SHRINK, MINIMUM 8000 PSI STRENGTH.
15. NOMINAL AGGREGATE SIZE: 3/4".
16. ALTERING OR SUBSTITUTING OF REINFORCEMENT MUST HAVE ENGINEER OF RECORD APPROVAL.
17. PLACEMENT OF CONDUIT MUST HAVE ENGINEER OF RECORD APPROVAL.

PV MODULE SPECIFICATION SHEETS

Higher output power

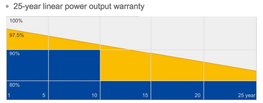
Lower LCOE

Less shading and lower resistive loss

Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty



JA Linear Power Warranty ■ Industry Warranty

Comprehensive Certificates

- IEC 61215, IEC 61730,UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- OHSAS 18001: 2007 Occupational health and safety management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval

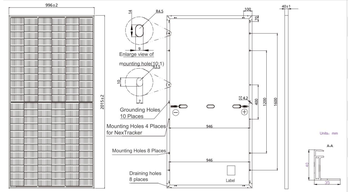
JA SOLAR

www.jasolar.com

Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.

JA SOLAR JAM72S10 390-410/MR Series

MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	20.7kg±3%
Dimensions	2015±2mm×996±2mm×40±1mm
Cable Cross Section Size	4mm² (12AWG)
No. of cells	144 (6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10-35
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1200mm(+)/1200mm(-)
Packaging Configuration	27 Per Pallet
Front Glass	2.8mm

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S10 -390/MR	JAM72S10 -395/MR	JAM72S10 -400/MR	JAM72S10 -405/MR	JAM72S10 -410/MR
Rated Maximum Power(Pmax) [W]	390	395	400	405	410
Open Circuit Voltage(Voc) [V]	49.01	49.30	49.58	49.86	50.12
Maximum Power Voltage(Vmp) [V]	40.71	41.02	41.33	41.60	41.88
Short Circuit Current(Isc) [A]	10.23	10.28	10.33	10.39	10.45
Maximum Power Current(Imp) [A]	9.58	9.63	9.68	9.74	9.79
Module Efficiency [%]	19.4	19.7	19.9	20.2	20.4
Power Tolerance	0~+5W				
Temperature Coefficient of Isc(α_Isc)	+0.044%/℃				
Temperature Coefficient of Voc(β_Voc)	-0.272%/℃				
Temperature Coefficient of Pmax(γ_Pmp)	-0.350%/℃				
STC	Irradiance 1000W/m², cell temperature 25℃, AM1.5G				

Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer.They only serve for comparison among different module types.
*For NexTracker installations static loading performance: front load measures 2400Pa, while back load measures 2400Pa.

ELECTRICAL PARAMETERS AT NOCT

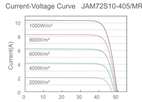
TYPE	JAM72S10 -390/MR	JAM72S10 -395/MR	JAM72S10 -400/MR	JAM72S10 -405/MR	JAM72S10 -410/MR
Rated Max Power(Pmax) [W]	294	298	302	306	310
Open Circuit Voltage(Voc) [V]	45.90	46.15	46.41	46.66	46.91
Max Power Voltage(Vmp) [V]	38.15	38.40	38.65	38.90	39.16
Short Circuit Current(Isc) [A]	8.15	8.20	8.25	8.31	8.36
Max Power Current(Imp) [A]	7.71	7.76	7.81	7.87	7.92
NOCT	Irradiance 800W/m², ambient temperature 20℃,wind speed 1m/s, AM1.5G				

OPERATING CONDITIONS

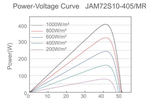
Maximum System Voltage	1000V/1500V DC(UL)
Operating Temperature	-40℃~+85℃
Maximum Series Fuse	20A
Maximum Static Load,Front*	5400Pa(112 lb/ft²)
Maximum Static Load,Back*	2400Pa(50 lb/ft²)
NOCT	45±2℃
Fire Performance	Type 1

CHARACTERISTICS

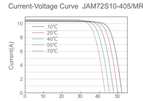
Current-Voltage Curve JAM72S10-405/MR



Power-Voltage Curve JAM72S10-405/MR



Current-Voltage Curve JAM72S10-405/MR



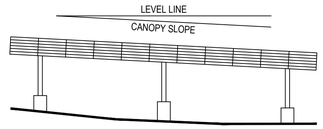
Premium Cells, Premium Modules

Version No. : US_EN_20200216A

FINISH SCHEDULE

ITEM DESCRIPTION	N/A	HDG	POWDER COAT	PAINT	PREGALV	STAINLESS STEEL	ALUMINUM	PVC	REMARKS
COLUMN ASSEMBLIES		●							
TOP BEAM/TRUSS ASSEMBLIES		●							
KNEE BRACE & BRACKETS	●								
PURLIN BRACKETS		●							
PURLINS					●				
DECKING				●					
GUTTERS				●					
DOWNSPOUTS								●	
FASCIA/PURLIN ENCLOSURE					●				
SNOW GUARDS	●								
RAILS							●		
ANGLE BRACING					●				
STRUCTURAL HARDWARE		●							
MODULE HARDWARE & CLIPS						●	●		

CANOPY TOPOGRAPHIC RELATIONSHIP



KEY POINTS
1. CANOPY STRUCTURE IS PARALLEL TO AVERAGE SITE GRADE
2. CANOPY SLOPE MAY VARY PER STRUCTURE
3. COLUMN LENGTHS MAY VARY
4. TOPS OF PIERS MAY VARY

RBI SOLAR
Total Solar Service: Design * Fabrication Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

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SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW (R1)
1	10/15/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
IBM

1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.:
1940117

DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE:
GENERAL NOTES AND MODULE SPECIFICATION SHEETS

SHEET No.:
SC002

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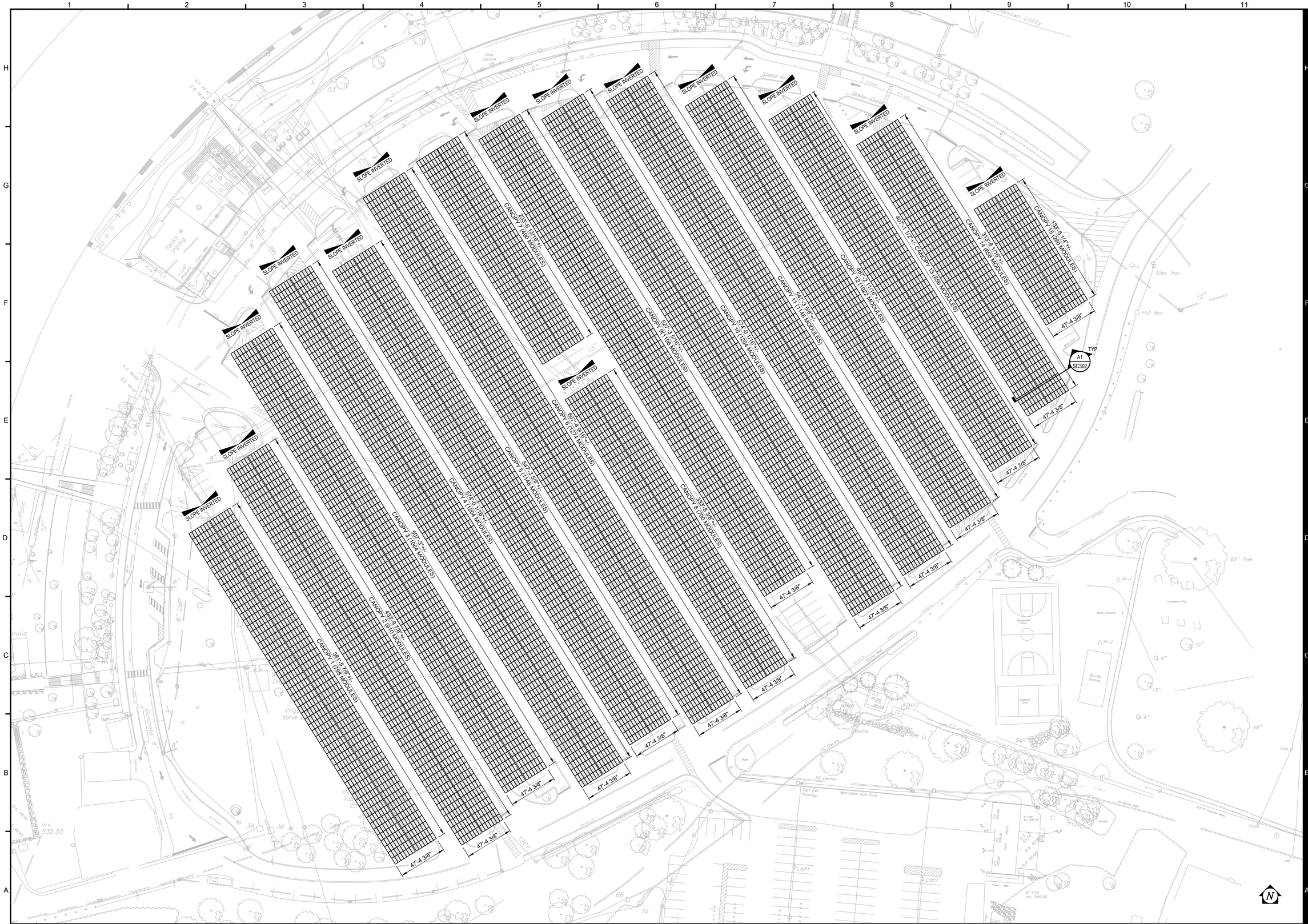
SLOPE INVERTED
CANOPY 1 (408 MODULES)
239'-5 13/16"+/-
CANOPY 2 (816 MODULES)
455'-9 7/8"+/-
CANOPY 3 (1068 MODULES)
507'-3 3/8"+/-
CANOPY 4 (1284 MODULES)
610'-7 9/16"+/-
CANOPY 5 (1188 MODULES)
567'-0 7/16"+/-
CANOPY 6 (1224 MODULES)
583'-4 3/16"+/-
CANOPY 7 (1188 MODULES)
567'-3 7/8"+/-
CANOPY 8 (1188 MODULES)
567'-3 7/8"+/-
CANOPY 9 (1008 MODULES)
481'-5 7/8"+/-
CANOPY 10 (1004 MODULES)
479'-10 7/16"+/-
CANOPY 11 (1148 MODULES)
547'-3 7/8"+/-
CANOPY 12 (1022 MODULES)
487'-2 7/16"+/-
CANOPY 13 (1068 MODULES)
407'-1 1/2"+/-
CANOPY 14 (696 MODULES)
313'-8 7/16"+/-
CANOPY 15 (780 MODULES)
339'-5 1/4"+/-
47'-4 3/8"
TYP
A1
SC302
Tanks & Piping
Concrete 8"
Irrig. Valve
Inv. 532.50
Time Capsule
Unknown Utility
Elec. Nox
Pull Box
Basketball Court
Volleyball Court
Shuffle Board
Horseshoe Pits
Water Fountain
Sign (No Parking)
Macadam Rail Curb
Bollards
Pole
Sign
Light
Power Pole
Fence
Tree
Bush
Patio
Curb
Gutter
Sidewalk
Asphalt
Retaining Wall
Stone Wall
Slate Curb
Slate Gutter
Slate Walk
Slate Patio
Flagstone
Flagstone Walk
Flagstone Patio
Brick Walk
Brick Patio
Wood Walk
Wood Patio
Wood Deck
Wood Fence
Chain Link Fence
Metal Fence
Guide Rail
Overhead Wires
Underground Electric
Underground Gas
Underground Water
Underground Sewer
Underground Storm
Underground Telephone
Underground Cable
Underground Fiber
Underground Steam
Underground Oil
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A1

SCALE:
1" = 10'-0"

Site Plan

RBI SOLAR
Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service

5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

☐ PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN
OF STRUCTURAL COMPONENTS ONLY

NOT FOR CONSTRUCTION

RBI SOLAR IS NOT
RESPONSIBLE FOR
CONSTRUCTION THAT IS
BUILT FROM SET LABELED
"NOT FOR CONSTRUCTION"

SOLAR CANOPY
FOR
ENTERSOLAR

☐ RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW

☐ PROJECT INFORMATION

TITLE & ADDRESS:
IBM

1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

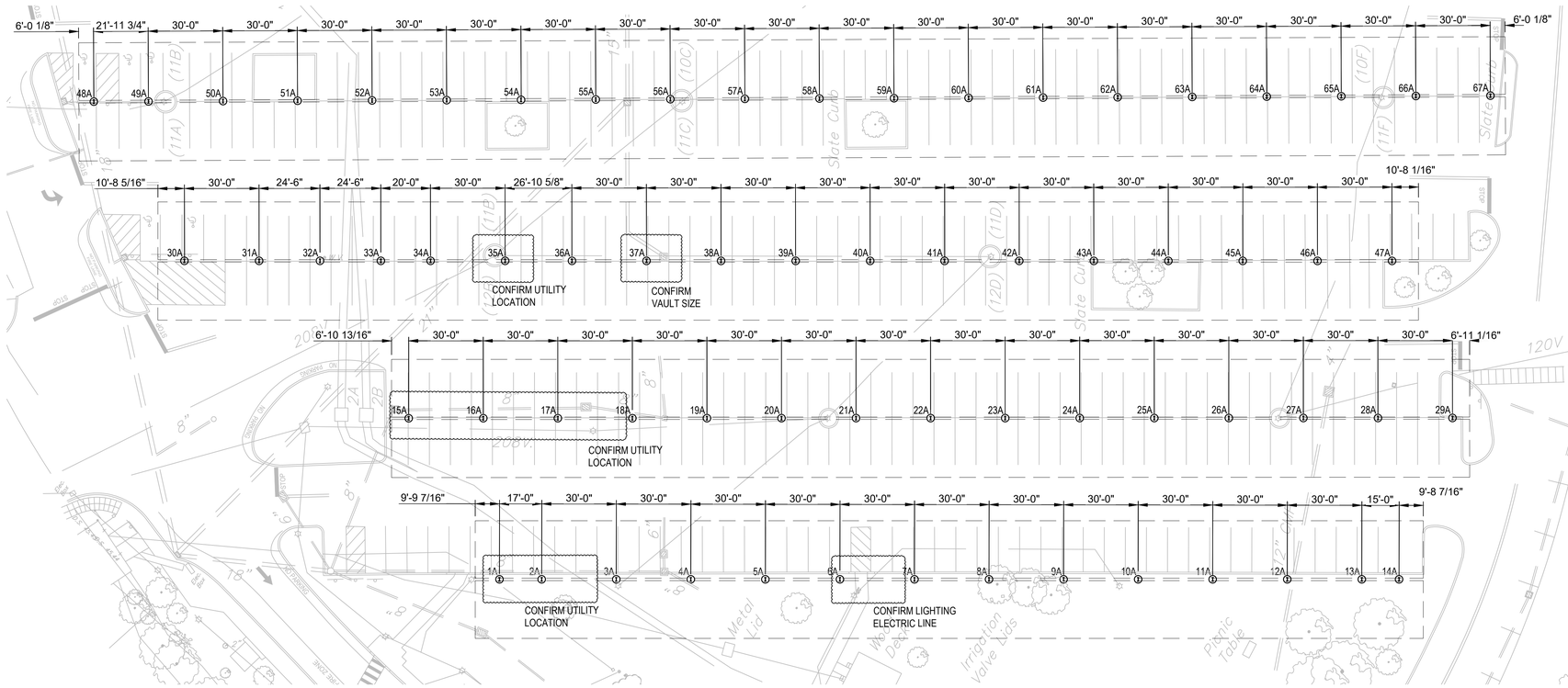
RBI SOLAR PROJECT No.:
1940117

DRAWN BY: WCC

REVIEWED BY: _

SHEET TITLE:
SITE PLAN

SHEET No.:
SC003



COLUMN SCHEDULE

	MARK	FNDN. TYPE	DESCRIPTION	LENGTH	LEVELING NUT
CANOPY 1	1	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	2	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	3	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	4	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	5	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	6	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	7	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	8	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	9	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	10	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	11	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	12	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	13	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	14	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 2	15	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	16	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	17	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	18	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	19	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	20	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	21	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	22	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	23	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	24	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	25	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	26	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	27	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	28	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	29	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 3	30	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	31	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	32	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	33	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	34	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	35	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	36	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	37	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	38	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	39	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	40	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	41	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	42	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	43	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	44	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	45	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	46	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	47	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 4	48	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	49	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	50	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	51	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	52	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	53	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	54	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	55	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	56	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	57	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	58	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	59	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	60	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	61	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	62	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	63	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	64	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	65	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	66	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	67	A	W18 x 55 COLUMN	T.B.D.	T.B.D.

COLUMN SETTING NOTES:
1. ALL COLUMN DIMENSIONS SHOWN ARE ↖ TO ↖ OF COLUMN.
2. LOCATION OF UNDERGROUND UTILITIES SHALL BE VERIFIED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. DIMENSIONS SHOWN ON PLAN SHALL BE VERIFIED IN THE FIELD.
4. LAYOUT IS SUBJECT TO CHANGE PER REQUEST AND/OR EXISTING CONDITIONS IN THE FIELD.
5. REFERENCE SHEET SC401 FOR ADDITIONAL FOUNDATION INFORMATION.
6. "LENGTH" REFERS TO THE CUT LENGTH OF THE COLUMN ON ITS LONGEST FACE.

PIER NOTES:
1. 0" ELEVATION AT THE BENCHMARK PIER IS FOR REFERENCE ONLY AND IS NOT RELATED TO SEA LEVEL.
2. TOP OF CONCRETE ELEVATION OF PIER IS IN RELATION TO CORRESPONDING BENCHMARK PIER.
3. REFER TO SHEET SC401 FOR FOUNDATION & LEVELING NUT DETAILS.
4. REFER TO SHEET SC401 FOR LEVELING NUT ADJUSTMENT DETAIL.

RBI SOLAR
Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

NOT FOR CONSTRUCTION

RBI SOLAR IS NOT RESPONSIBLE FOR CONSTRUCTION THAT IS BUILT FROM SET LABELED "NOT FOR CONSTRUCTION"

SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

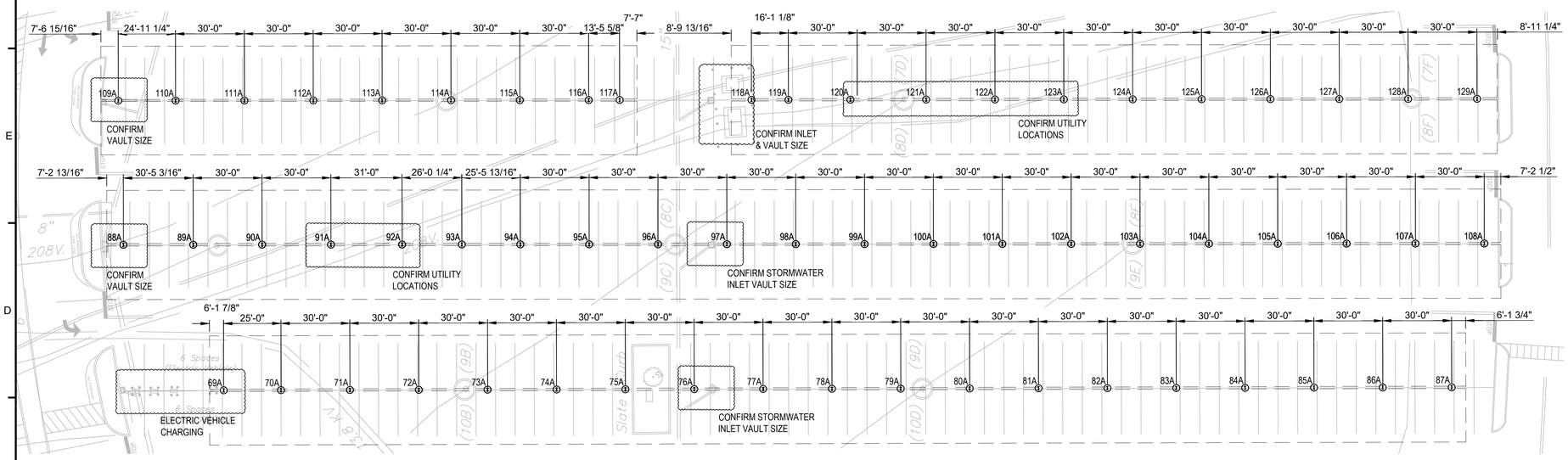
RBI SOLAR PROJECT No.: 1940117

DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE:
FOUNDATION AND COLUMN PLAN

SHEET No.:
SC101

A1
SCALE: 1/8" = 1'-0"
Foundation & Column Plan



COLUMN SCHEDULE

	MARK	FNDN. TYPE	DESCRIPTION	LENGTH	LEVELING NUT
CANOPY 5	69	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	70	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	71	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	72	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	73	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	74	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	75	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	76	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	77	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	78	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	79	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	80	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	81	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	82	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	83	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	84	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	85	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	86	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	87	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 6	88	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	88	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	89	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	89	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	90	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	90	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	91	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	91	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	92	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	92	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	93	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	93	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	94	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	94	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	95	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	95	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	96	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	96	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	97	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	97	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	98	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	98	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	99	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	99	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	100	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	100	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	101	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	101	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	102	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	102	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	103	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	103	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	104	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	104	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	105	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	105	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	106	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	106	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	107	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	107	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	108	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	108	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 7	109	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	110	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	111	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	112	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	113	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	114	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	115	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	116	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	117	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 8	118	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	119	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	120	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	121	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	122	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	123	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	124	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	125	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	126	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	127	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	128	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	129	A	W18 x 55 COLUMN	T.B.D.	T.B.D.

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6. "LENGTH" REFERS TO THE CUT LENGTH OF THE COLUMN ON ITS LONGEST FACE.

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4. REFER TO SHEET SC401 FOR LEVELING NUT ADJUSTMENT DETAIL.

A1
SCALE: 1/8" = 1'-0"

Foundation & Column Plan

RBI SOLAR
Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

NOT FOR CONSTRUCTION

RBI SOLAR IS NOT RESPONSIBLE FOR CONSTRUCTION THAT IS BUILT FROM SET LABELED "NOT FOR CONSTRUCTION"

SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW

PROJECT INFORMATION

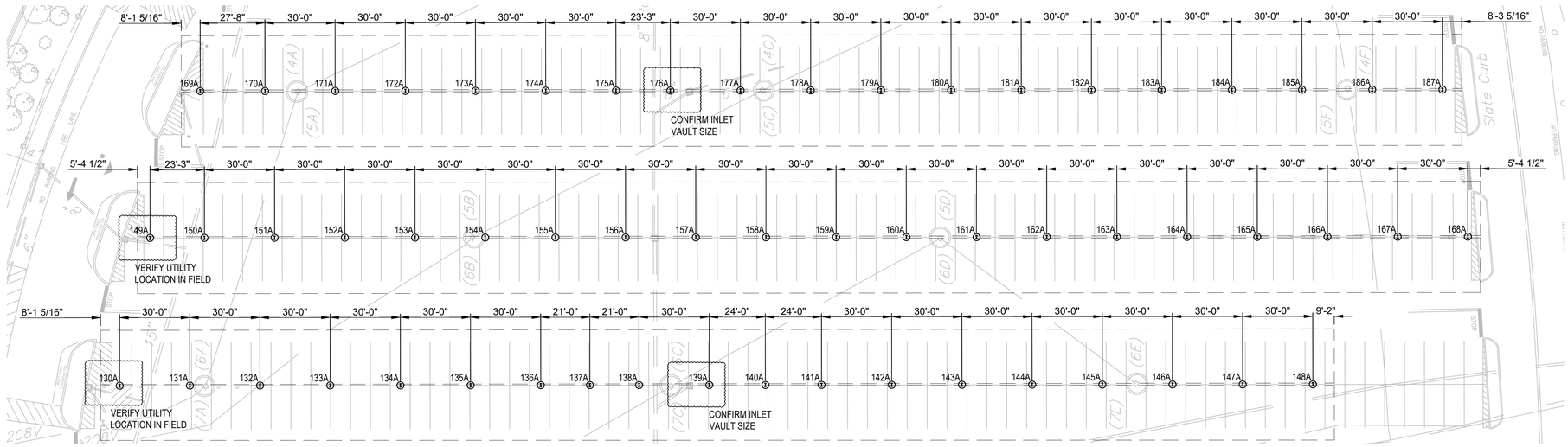
TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.:
1940117

DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE:
FOUNDATION AND COLUMN PLAN

SHEET No.:
SC102



COLUMN SCHEDULE

	MARK	FNDN. TYPE	DESCRIPTION	LENGTH	LEVELING NUT
CANOPY 9	130	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	131	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	132	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	133	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	134	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	135	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	136	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	137	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	138	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	139	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	140	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	141	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	142	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	143	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	144	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	145	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	146	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	147	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	148	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 10	169	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	170	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	171	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	172	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	173	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	174	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	175	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	176	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	177	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	178	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	179	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	180	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	181	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	182	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	183	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	184	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	185	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	186	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	187	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 11	169	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	170	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	171	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	172	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	173	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	174	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	175	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	176	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	177	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	178	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	179	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	180	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	181	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	182	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	183	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	184	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	185	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	186	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	187	A	W18 x 55 COLUMN	T.B.D.	T.B.D.

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4. REFER TO SHEET SC401 FOR LEVELING NUT ADJUSTMENT DETAIL.

A1
SCALE: 1/8" = 1'-0"

Foundation & Column Plan

RBI SOLAR
Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

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NOT FOR CONSTRUCTION

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SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW

PROJECT INFORMATION

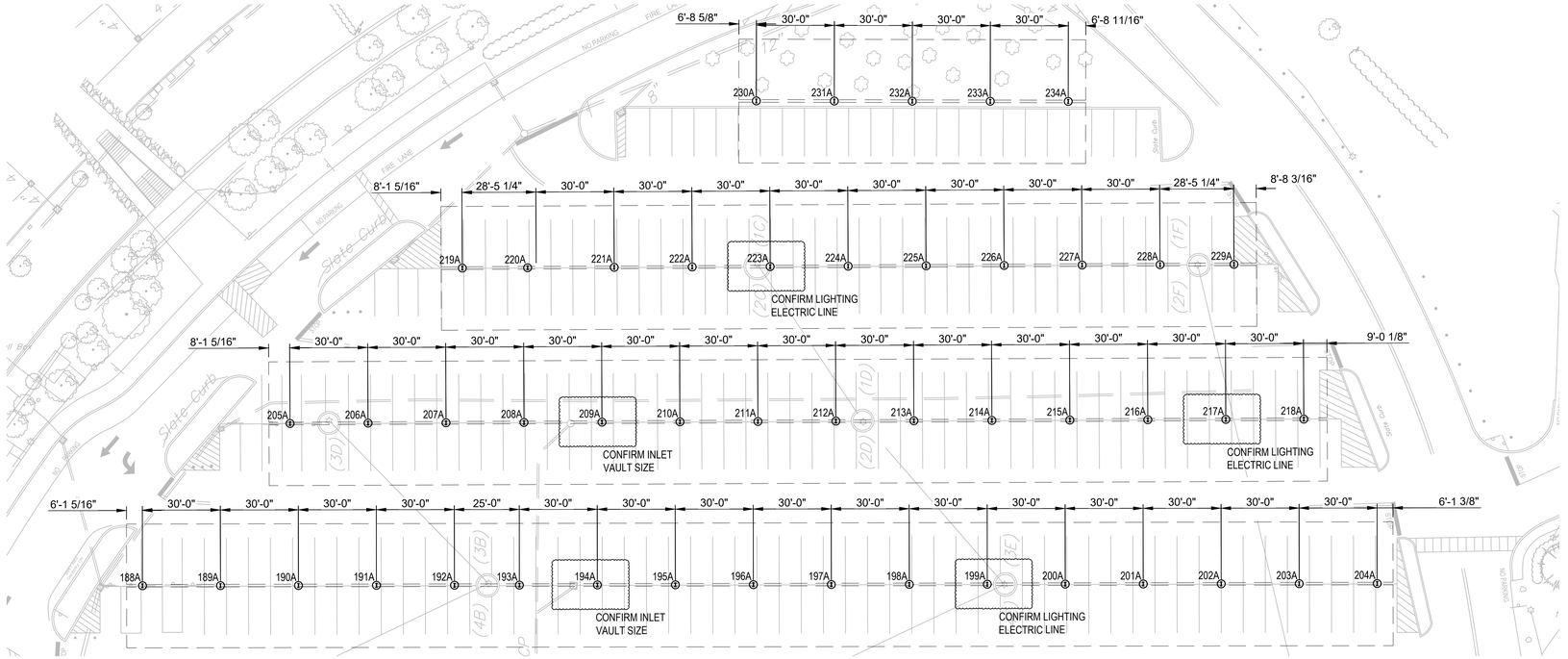
TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.:
1940117

DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE:
FOUNDATION AND COLUMN PLAN

SHEET No.:
SC103



COLUMN SCHEDULE

	MARK	FNDN. TYPE	DESCRIPTION	LENGTH	LEVELING NUT
CANOPY 12	188	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	189	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	190	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	191	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	192	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	193	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	194	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	195	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	196	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	197	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	198	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	199	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	200	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	201	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	202	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	203	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	204	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 13	205	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	206	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	207	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	208	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	209	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	210	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	211	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	212	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	213	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	214	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	215	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	216	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	217	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	218	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 14	219	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	220	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	221	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	222	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	223	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	224	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	225	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	226	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	227	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	228	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	229	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
CANOPY 15	230	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	231	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	232	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	233	A	W18 x 55 COLUMN	T.B.D.	T.B.D.
	234	A	W18 x 55 COLUMN	T.B.D.	T.B.D.

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A1
SCALE: 1/8" = 1'-0"

Foundation & Column Plan

RBI SOLAR
Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

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SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW

PROJECT INFORMATION

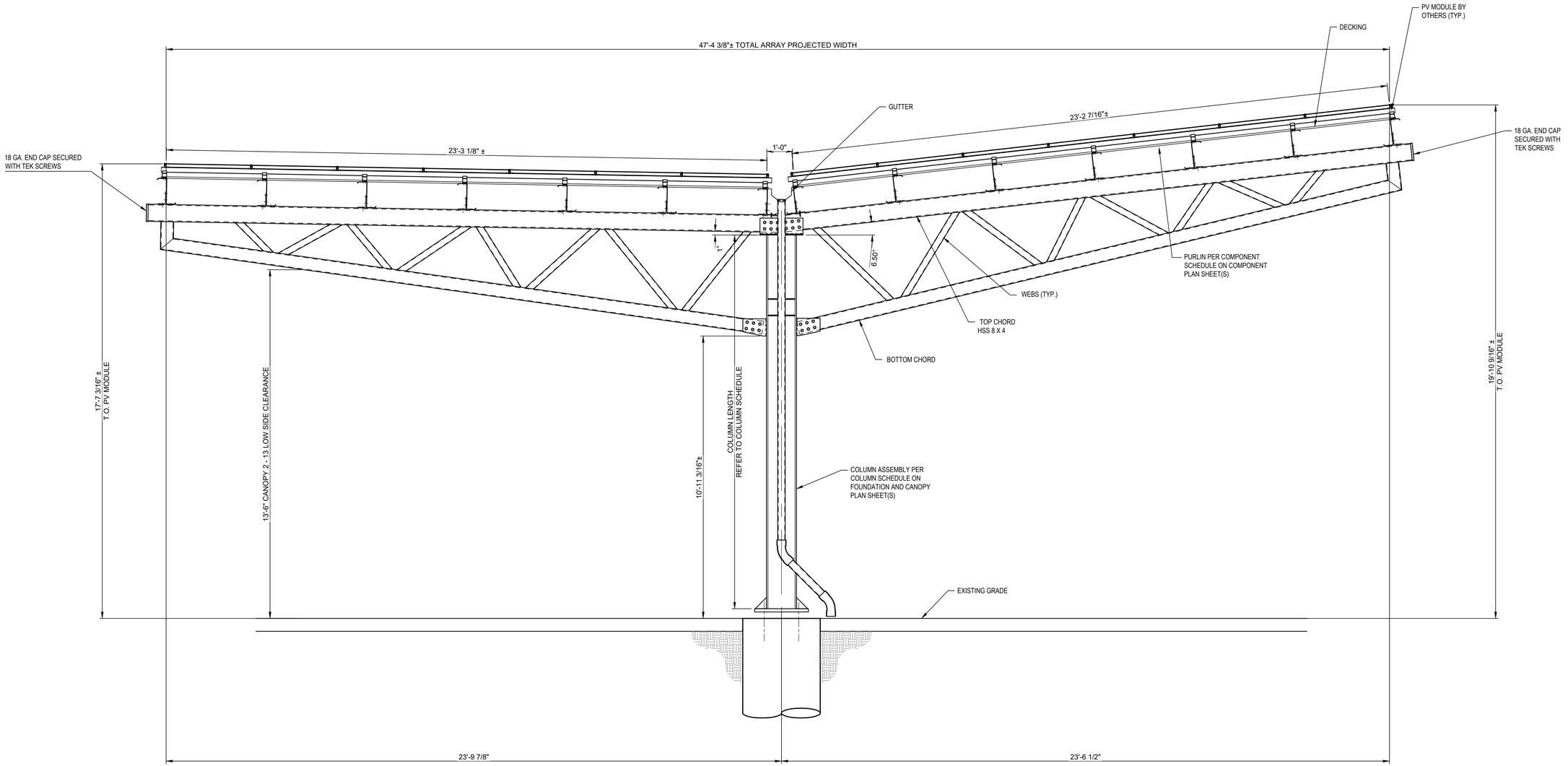
TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.: 1940117

DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE: FOUNDATION AND COLUMN PLAN

SHEET No.: **SC104**



A1

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

Section

RBI SOLAR

Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service

5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

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SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW (R1)
1	10/15/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
IBM

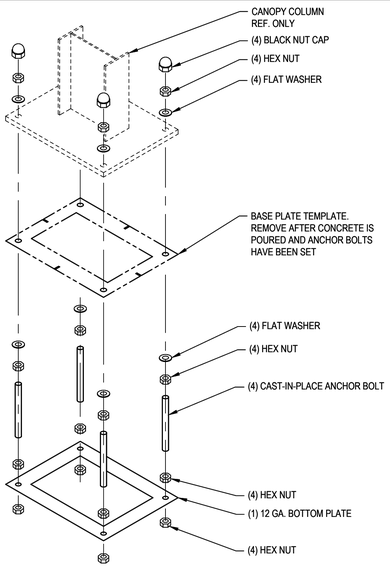
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.:
1940117

DRAWN BY:	REVIEWED BY:
WCC	_

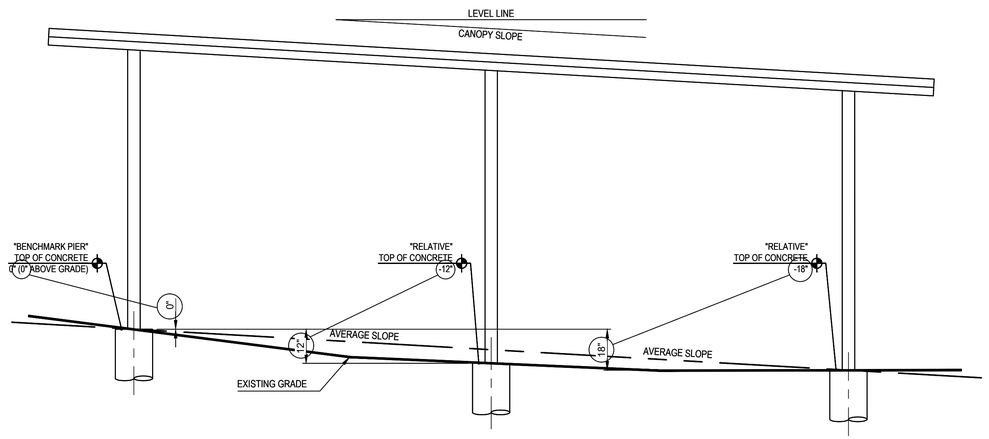
SHEET TITLE:
CANOPY SECTION

SHEET No.:
SC301



D1 SCALE: 1 1/2" = 1'-0"

Anchor Connection Exploded View



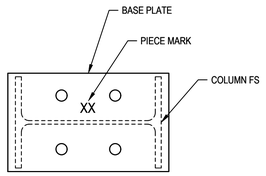
KEY POINTS
1. CANOPY ARRAY IS PARALLEL TO AVERAGE SITE GRADE
2. CANOPY ARRAY SLOPE MAY VARY PER STRUCTURE
3. COLUMN LENGTHS MAY VARY
4. REFER TO FOUNDATION PLAN FOR ACTUAL "BENCHMARK" LOCATION AND ADDITIONAL FOUNDATION LOCATIONS
5. HOLDING A "RELATIVE" FOUNDATION TOP OF CONCRETE IN RELATION TO THE "BENCHMARK" FOUNDATION TOP OF CONCRETE IS CRITICAL, FINISHED FOUNDATION HEIGHTS MAY ONLY VARY RELATIVE TO ADJACENT GRADE AND NOT THE "BENCHMARK" FOUNDATION
6. COLUMN LENGTHS ARE CALCULATED USING THE INDIVIDUAL FOUNDATION "TOP OF CONCRETE" ELEVATIONS

FOR REFERENCE ONLY
SEE FOUNDATION PLAN FOR "BENCH MARK" LOCATION AND RELATIVE FOUNDATION HEIGHTS

F3 SCALE: 1 1/2" = 1'-0"

Top Of Concrete Layout Key

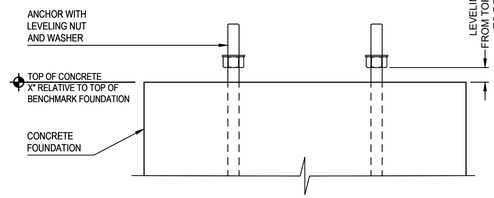
NOTE:
1. REFER TO FOUNDATION PLAN FOR COLUMN PIECE MARK SCHEDULE.
2. PIECE MARK LOCATED ON UNDERSIDE OF BASE PLATE.
3. DETAIL FOR REFERENCE ONLY. BASE PLATE AND COLUMN SHAPE WILL VARY PER PROJECT.



D3 SCALE: 1 1/2" = 1'-0"

Column Piece Mark Detail

NOTE:
1. REFER TO COLUMN SCHEDULE FOR FOUNDATION HEIGHTS AND LEVELING NUT HEIGHTS.
2. FIELD VERIFY ALL FOUNDATION HEIGHTS.
3. IF ACTUAL FOUNDATION HEIGHT IS DIFFERENT FROM DESIGNED VALUE WITHIN THIS CONSTRUCTION SET, THEN ADJUST LEVELING NUT HEIGHT AS REQUIRED TO MAKE UP DISCREPANCY IN FOUNDATION HEIGHT.
4. LEVELING NUT HEIGHT NOT TO EXCEED 2 5/8". CONTACT AN RBI SOLAR REPRESENTATIVE FOR APPROVAL IF ADDITIONAL HEIGHT IS REQUIRED.



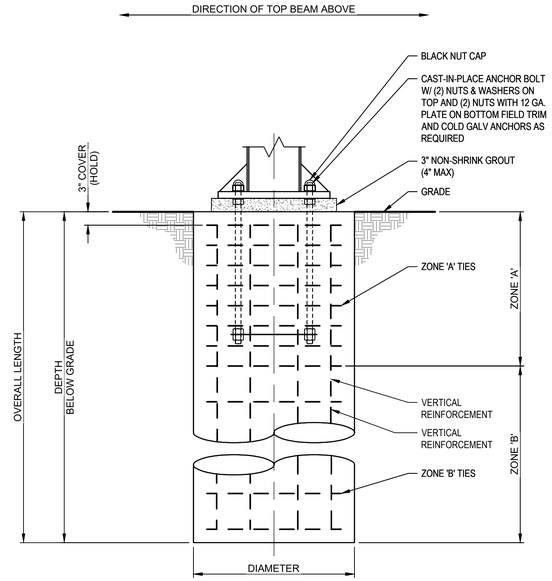
D6 SCALE: 1 1/2" = 1'-0"

Leveling Nut Detail Side View

FOUNDATION SCHEDULE

TYPE	SIZE				REINFORCEMENT		
	DIAMETER	TOP OF FOUNDATION	DEPTH BELOW GRADE	APPROX. OVERALL LENGTH	VERTICAL REINFORCEMENT	ZONE 'A' REINFORCEMENT TIES	ZONE 'B' REINFORCEMENT TIES
A	36"	FLUSH	13'-0"	13'-0"	(12) #6 BARS	#5 BARS @ 5" O.C. FOR 36"	#5 BARS @ 10" O.C. FOR REMAINDER

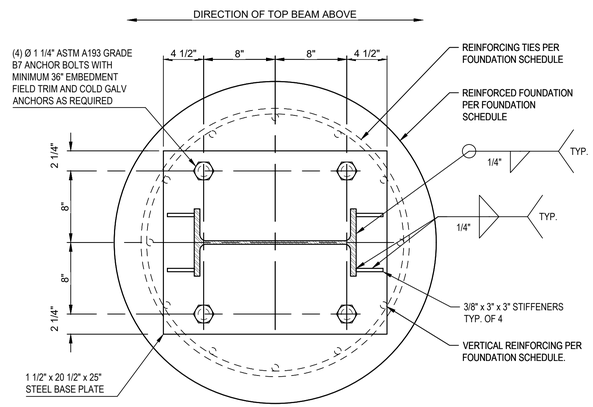
NOTE:
1. ALL REINFORCING TO HAVE 3" MINIMUM COVER
2. REFERENCE THE FOUNDATION PLAN FOR DESIGNED HEIGHT ABOVE GRADE VALUES. SEE LEVELING NUT DETAIL FOR ADJUSTMENTS.



NOTE: REINFORCING SHOWN MAY NOT REPRESENT THE ACTUAL REINFORCING REQUIRED.
SEE CONCRETE PIER SCHEDULE FOR REQUIRED REINFORCING AND DIMENSIONS.
PROVIDE MINIMUM 3" COVER FOR ALL REINFORCEMENT.

D9 SCALE: 3/4" = 1'-0"

Typical Pier Side View



A9 SCALE: 1 1/2" = 1'-0"

Base Plate Detail

RBI SOLAR
Total Solar Service: Design * Fabrication
Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

PROFESSIONAL SEAL

ENGINEER'S SEAL APPLIES TO DESIGN OF STRUCTURAL COMPONENTS ONLY

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SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW (R1)
1	10/15/20	50% REVIEW

PROJECT INFORMATION

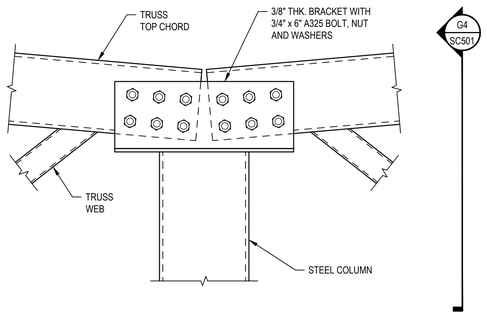
TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.:
1940117

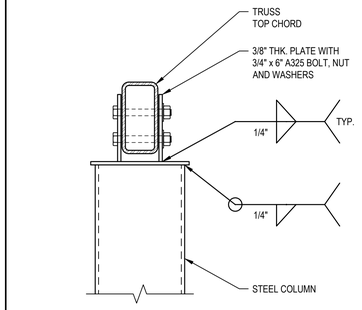
DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE:
FOUNDATION AND
BASE PLATE DETAILS

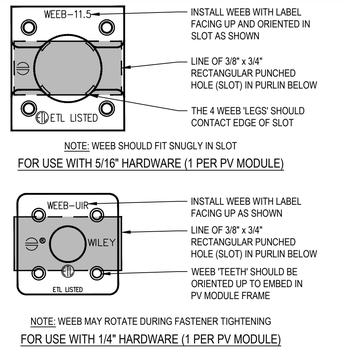
SHEET No.:
SC401



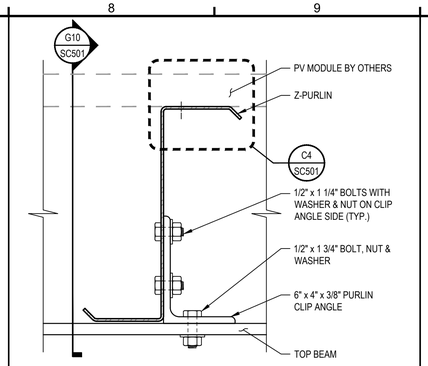
G1 — **Top Chord Connection Longitudinal Section**
SCALE: 1-1/2" = 1'-0"



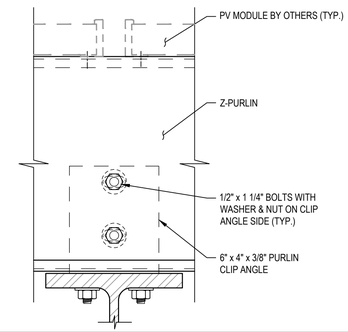
G4 — **Top Chord Connection Transverse Section**
SCALE: 1-1/2" = 1'-0"



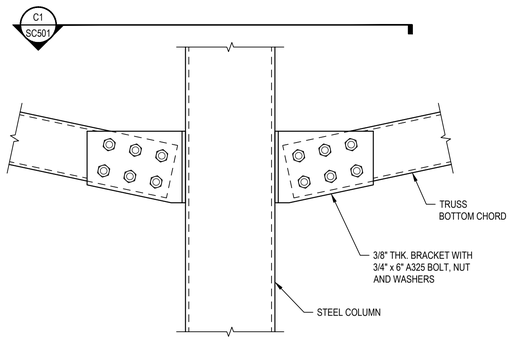
G6 — **WEEB PV Module Bonding Washer Detail**
SCALE: NONE



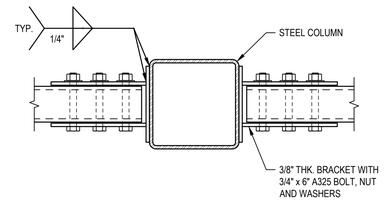
G8 — **Purlin Connection Transverse Detail**
SCALE: 3" = 1'-0"



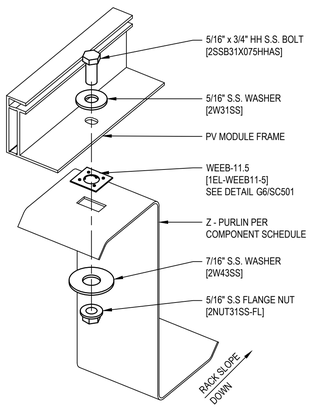
G10 — **Purlin Connection Longitudinal Section**
SCALE: 3" = 1'-0"



E1 — **Bottom Chord Connection Longitudinal Section**
SCALE: 1-1/2" = 1'-0"

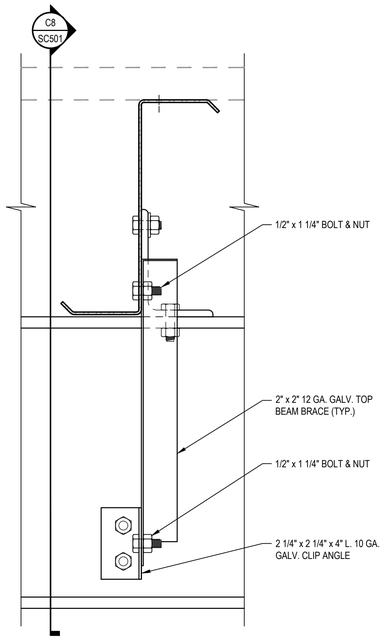


C1 — **Bottom Chord Connection Transverse Section**
SCALE: 1-1/2" = 1'-0"

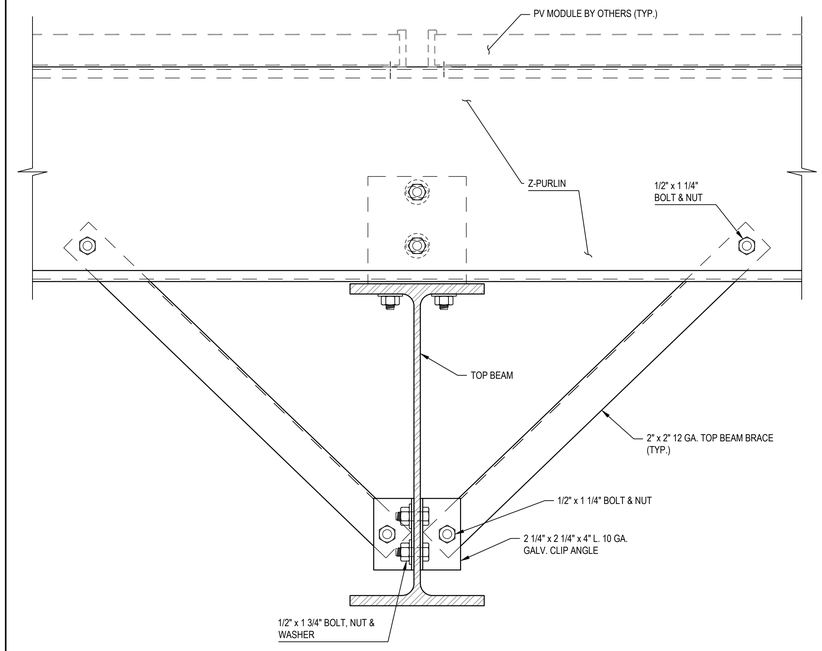


NOTE: TORQUE TO THE HIGHER OF 12 ft-lb OR THE PV MODULE MANUFACTURER'S REQUIRED TORQUE VALUE

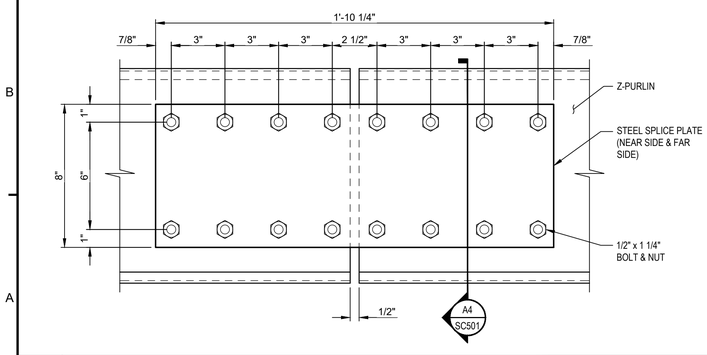
C4 — **Expanded PV Module Frame to Z-Purlin Connection Detail**
SCALE: NONE



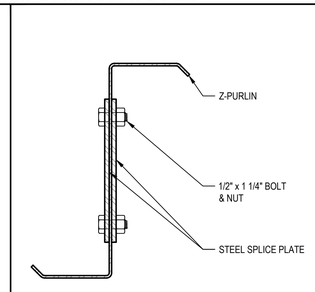
C6 — **Top Beam Flange Brace Connection Detail**
SCALE: 3" = 1'-0"



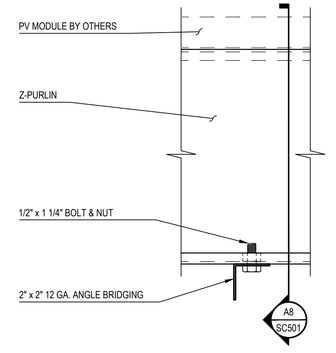
C8 — **Top Beam Flange Brace Connection Section**
SCALE: 3" = 1'-0"



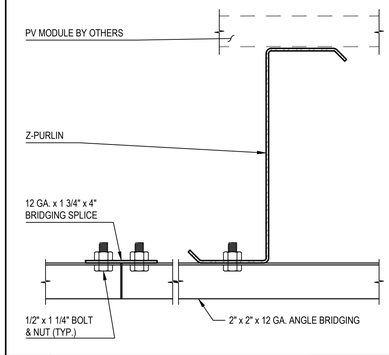
A1 — **Purlin Splice Connection**
SCALE: 3" = 1'-0"



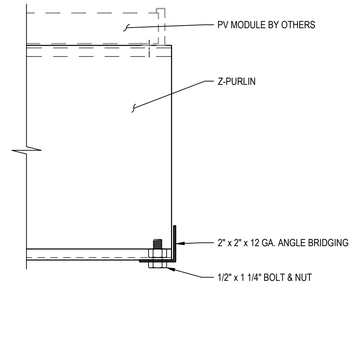
A4 — **Purlin Splice Connection**
SCALE: 3" = 1'-0"



A6 — **Purlin Bridging Intermediate Condition**
SCALE: 3" = 1'-0"



A8 — **Purlin Bridging Splice Connection**
SCALE: 3" = 1'-0"



A10 — **Purlin Bridging End Condition**
SCALE: 3" = 1'-0"

RBI SOLAR
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5513 VINE STREET
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1	10/15/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

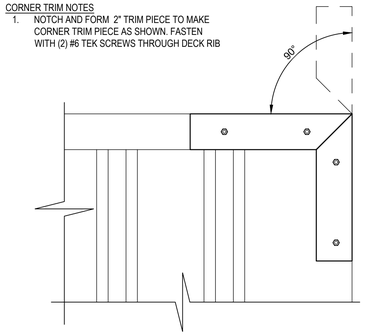
RBI SOLAR PROJECT No.: 1940117

DRAWN BY: WCC
REVIEWED BY: _

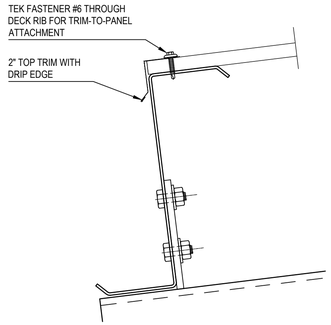
SHEET TITLE: COMPONENT DETAILS

SHEET No.: **SC501**

CORNER TRIM NOTES
1. NOTCH AND FORM 2" TRIM PIECE TO MAKE CORNER TRIM PIECE AS SHOWN. FASTEN WITH (2) #6 TEK SCREWS THROUGH DECK RIB

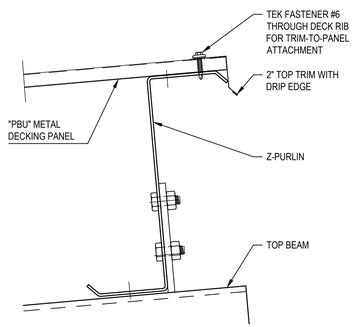


E1 SCALE: 3" = 1'-0" — **Corner Trim Decking Connection**

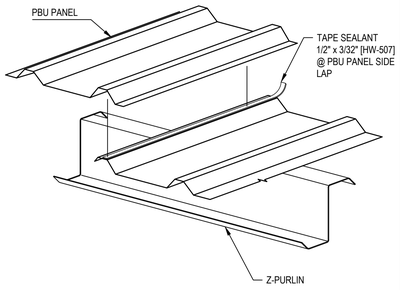


METAL DECK ATTACHMENT NOTES
1. LOW SIDE TRIM NOT REQUIRED WHEN A GUTTER SYSTEM IS INSTALLED.

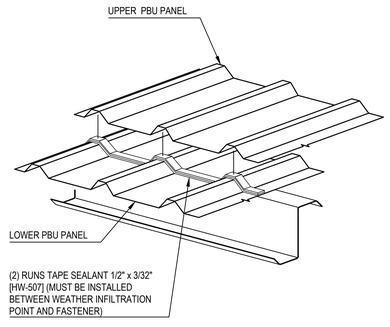
E3 SCALE: 3" = 1'-0" — **Low Side Trim Condition Decking Connection**



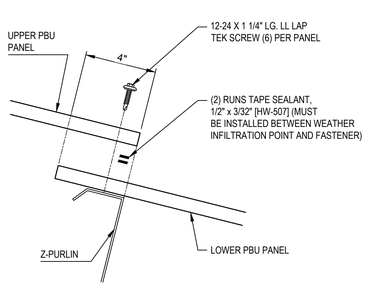
E5 SCALE: 3" = 1'-0" — **High Side Trim Condition Decking Connection**



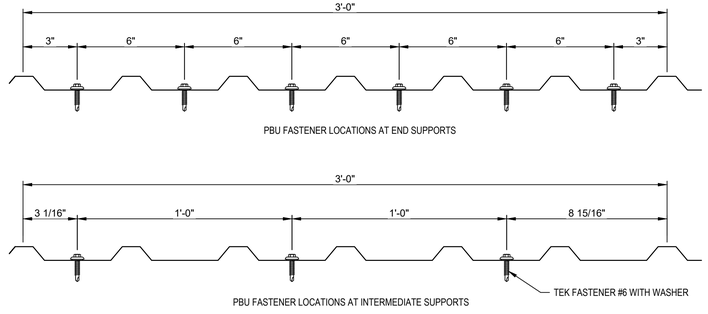
C1 SCALE: 3" = 1'-0" — **Side Lap Sealant Detail Decking Connection**



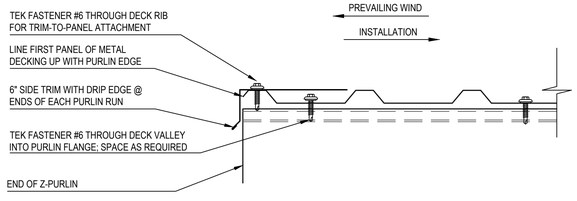
C3 SCALE: 3" = 1'-0" — **End Lap Sealant Detail Decking Connection**



C5 SCALE: 3" = 1'-0" — **End Lap Section Decking Connection**

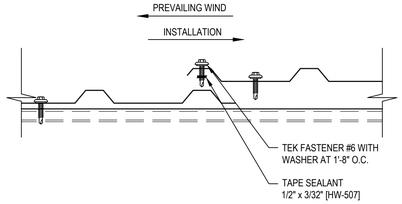


C7 SCALE: 3" = 1'-0" — **PBU Fastener Pattern Decking Connection**



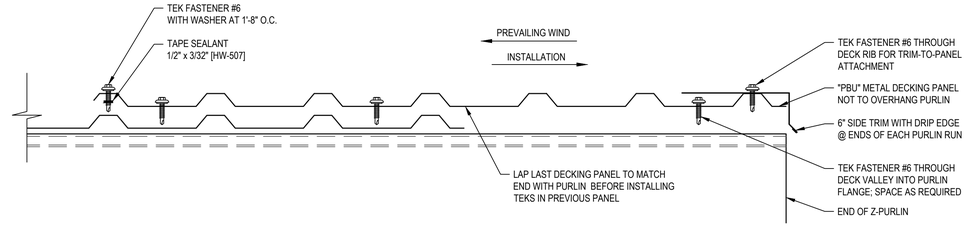
METAL DECK ATTACHMENT NOTES
1. SEE DETAIL C6/SC502 FOR FASTENER PATTERNS.
2. #6 TEKS DO NOT NEED TO BE INSTALLED IN LOCATIONS WHERE L-FEET WILL BE INSTALLED.
3. DIRECTION OF DECKING LAYOUT DETERMINED BY PREVAILING WIND.

A1 SCALE: 3" = 1'-0" — **Start End Condition Decking Connection**



METAL DECK ATTACHMENT NOTES
1. SEE DETAIL C6/SC502 FOR FASTENER PATTERNS.
2. SEE DETAIL C3/SC502 & C6/SC502 FOR SEALANT TAPE DETAILS.
3. #6 TEKS DO NOT NEED TO BE INSTALLED IN LOCATIONS WHERE L-FEET WILL BE INSTALLED.
4. DIRECTION OF DECKING LAYOUT DETERMINED BY PREVAILING WIND.

A4 SCALE: 3" = 1'-0" — **Intermediate Panel Lap Decking Connection**



METAL DECK ATTACHMENT NOTES
1. SEE DETAIL C7/SC502 FOR FASTENER PATTERNS.
2. #6 TEKS DO NOT NEED TO BE INSTALLED IN LOCATIONS WHERE L-FEET WILL BE INSTALLED.
3. DIRECTION OF DECKING LAYOUT DETERMINED BY PREVAILING WIND.

A7 SCALE: 3" = 1'-0" — **Finish End Condition Decking Connection**

RBI SOLAR
Total Solar Service: Design * Fabrication Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
513.242.2051
FAX: 513.242.0816

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SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW (R1)
1	10/15/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.: 1940117

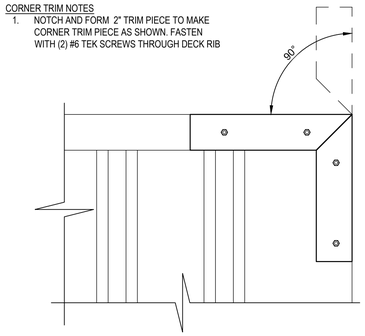
DRAWN BY: WCC | REVIEWED BY: _

SHEET TITLE: DECKING DETAILS

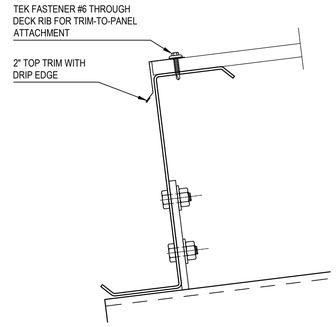
SHEET No.: **SC502**

S:\RBI Solar\Dwgs\2019 Jobs\1970117 - EnterSolar - IBM Yorktown Heights, NY\Drawings\1970117.dwg, 10/15/2020 5:54:48 PM, WCCobb

CORNER TRIM NOTES
1. NOTCH AND FORM 2" TRIM PIECE TO MAKE CORNER TRIM PIECE AS SHOWN. FASTEN WITH (2) #6 TEK SCREWS THROUGH DECK RIB

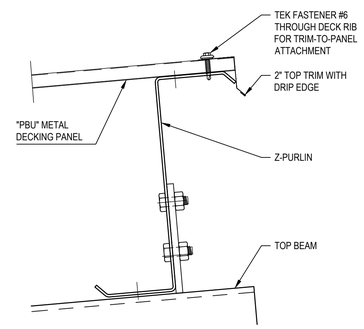


G1 Corner Trim Decking Connection
SCALE: 3" = 1'-0"

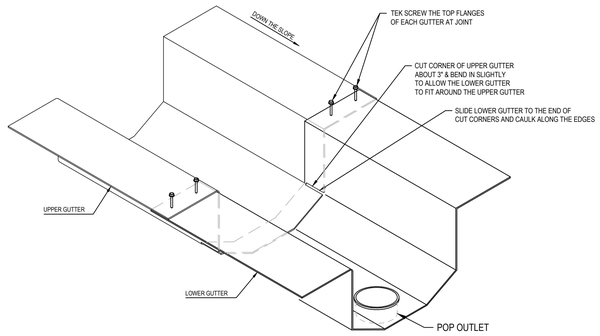


METAL DECK ATTACHMENT NOTES
1. LOW SIDE TRIM NOT REQUIRED WHEN A GUTTER SYSTEM IS INSTALLED.

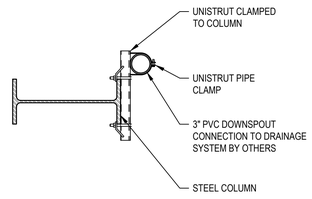
G3 Low Side Trim Condition Decking Connection
SCALE: 3" = 1'-0"



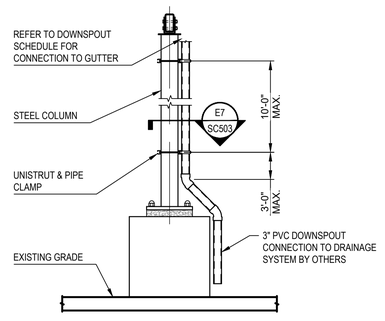
G5 High Side Trim Condition Decking Connection
SCALE: 3" = 1'-0"



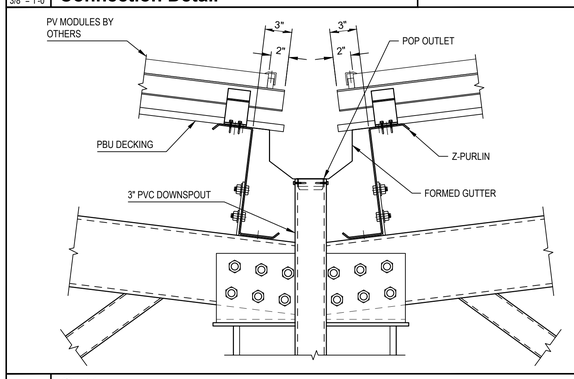
E1 Gutter Splice Connection Detail
SCALE: 3" = 1'-0"



E4 Downspout to Column Connection Detail
SCALE: 1" = 1'-0"



C6 Downspout to Column Connection Detail
SCALE: 3/8" = 1'-0"



- Gutter Connection Detail
SCALE: 1-1/2" = 1'-0"

RBI SOLAR
Total Solar Service: Design * Fabrication Installation * Parts * Repair Service
5513 VINE STREET
CINCINNATI, OH 45217
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FAX: 513.242.0816

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SOLAR CANOPY FOR ENTERSOLAR

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2	10/15/20	75% REVIEW (R1)
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PROJECT INFORMATION

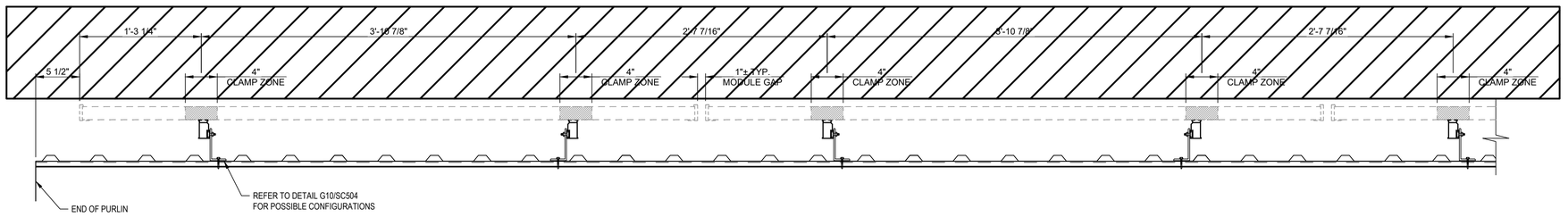
TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.: 1940117

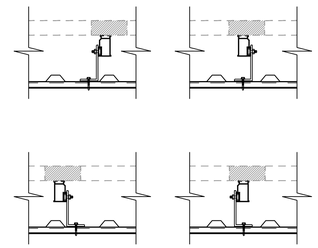
DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE: GUTTER AND DOWNSPOUT DETAILS

SHEET No.: **SC503**

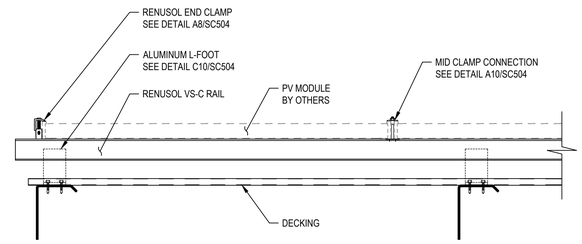


G1 SCALE: 1 1/2" = 1'-0"
Landscape Orientation L-Foot Layout Detail

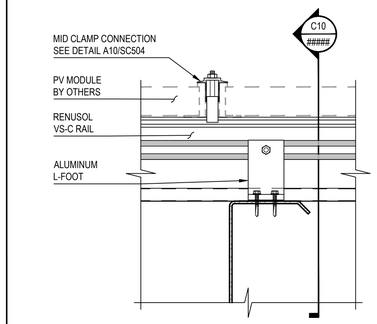


NOTE: USE ANY CONFIGURATION REQUIRED TO FASTEN WITHIN THE CLAMPING ZONE

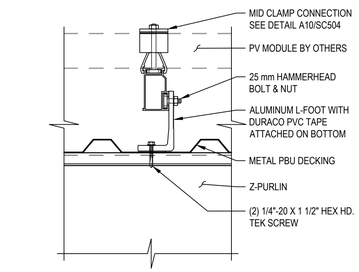
G10 SCALE: 1 1/2" = 1'-0"
Landscape Orientation L-Foot Configurations



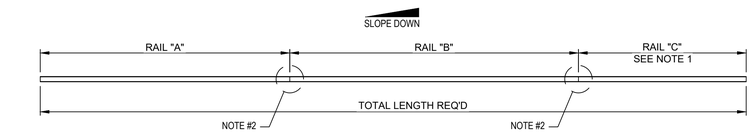
E9 SCALE: 1-1/2" = 1'-0"
Landscape Orientation Module Connection Detail



C10 SCALE: 3" = 1'-0"
Mid Clamp/Rail/L-Foot Longitudinal Connection Detail



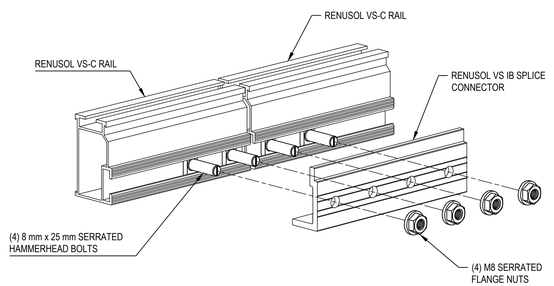
C10 SCALE: 3" = 1'-0"
Mid Clamp/Rail/L-Foot Transverse Connection Detail



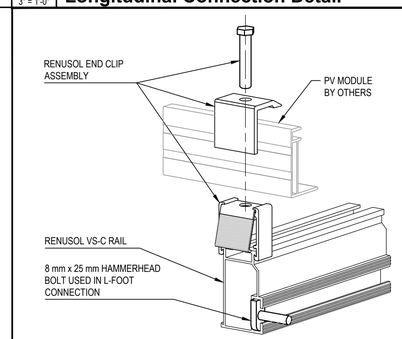
MODULE RAIL LAYOUT							
CANOPY	RAIL A	QTY	RAIL B	QTY	RAIL C	QTY	TOTAL LENGTH REQ'D
1	204"	10	204"	10	123" FIELD CUT TO 75"	10	483"
2	204"	10	204"	10	123" FIELD CUT TO 75"	10	483"
3	204"	10	204"	10	123" FIELD CUT TO 75"	10	483"
4	204"	10	204"	10	123" FIELD CUT TO 75"	10	443"
5	204"	10	204"	10	123" FIELD CUT TO 75"	10	364"
6	204"	10	204"	10	123" FIELD CUT TO 75"	10	483"
7	204"	10	204"	10	123" FIELD CUT TO 75"	10	600"
8	204"	10	204"	10	123" FIELD CUT TO 75"	10	403"
9	204"	10	204"	10	123" FIELD CUT TO 75"	10	403"
10	204"	10	204"	10	123" FIELD CUT TO 75"	10	403"
11	204"	10	204"	10	123" FIELD CUT TO 75"	10	443"

NOTES:
1. RAIL "C" TO BE FIELD CUT PER SCHEDULE ABOVE.
2. USE PROVIDED RENUSOL VS IB SPLICE CONNECTOR BETWEEN RAILS

A1 SCALE: 1-1/2" = 1'-0"
Module Rail Layout All Canopies

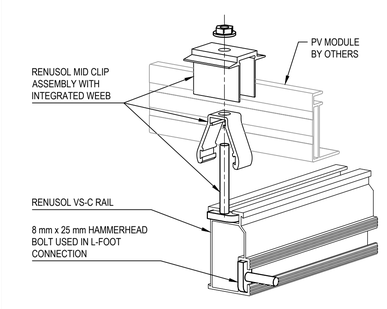


A5 SCALE: 6" = 1'-0"
VS IB Rail Splice Connection with Integrated Bonding



NOTE: TORQUE MODULE MID CLAMPS TO 10 ft-lb

A8 SCALE: 6" = 1'-0"
End Clamp Module to Rail Connection



NOTE: TORQUE MODULE MID CLAMPS TO 10 ft-lb

A10 SCALE: 6" = 1'-0"
Mid Clamp Module to Rail Connection

RBI SOLAR
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SOLAR CANOPY FOR ENTERSOLAR

RELEASE RECORD

MARK	DATE	DESCRIPTION
2	10/15/20	75% REVIEW (R1)
1	10/15/20	50% REVIEW

PROJECT INFORMATION

TITLE & ADDRESS:
IBM
1101 KITCHAWAN RD.
YORKTOWN HEIGHTS, NY
10598

RBI SOLAR PROJECT No.: 1940117

DRAWN BY: WCC
REVIEWED BY: _

SHEET TITLE: RAIL DETAILS

SHEET No.: **SC504**