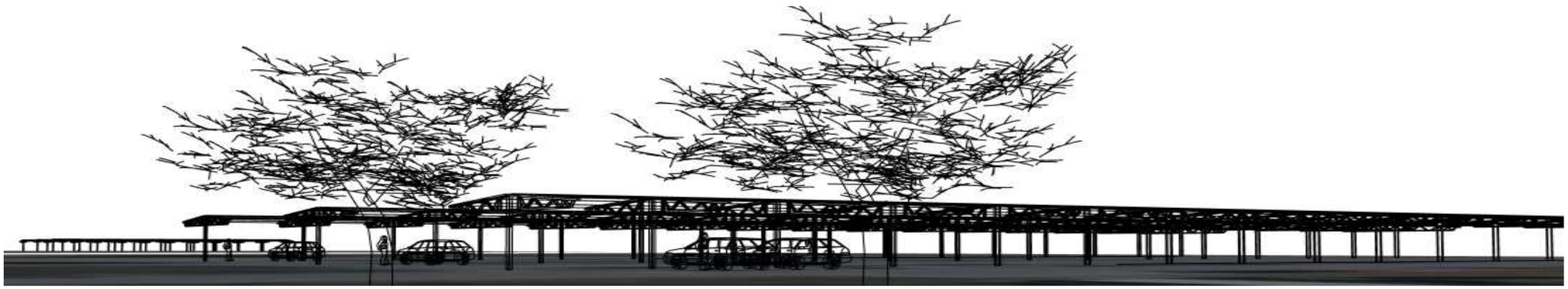
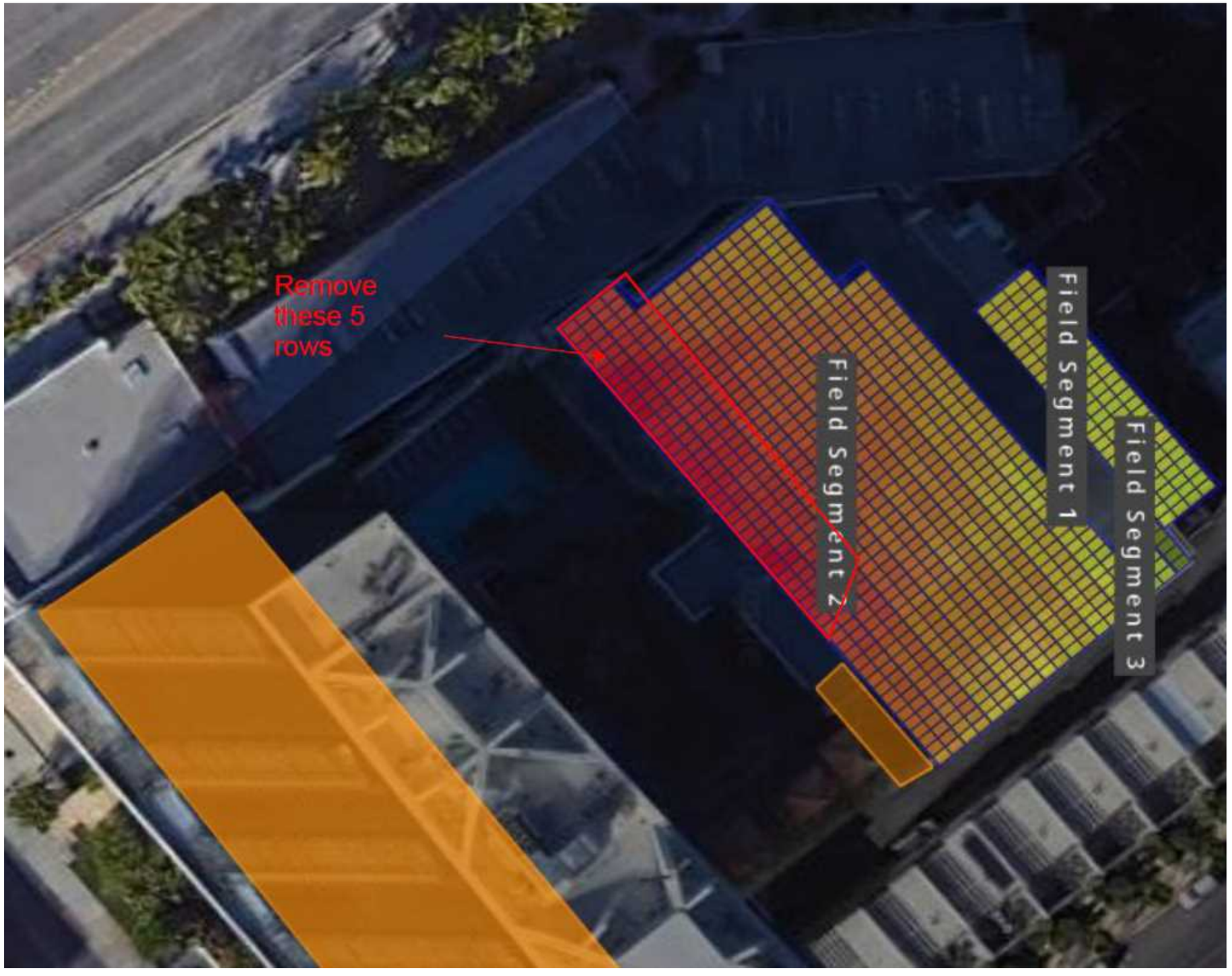
SOLAR CANOPY and SOLAR PAVILION PROJECT

PROJECT: THE COLLECTION

ADDRESS: South Street & Ala Moana Blvd.

LOCATION: Honolulu, HI 96850





photonworks ENGINEERING LLP.
1234 S. KING STREET
HONOLULU, HAWAII 96814
T 808.951.4100 F 808.951.4102
Cell 808.282.9733
Kwaj# 805.355.8325
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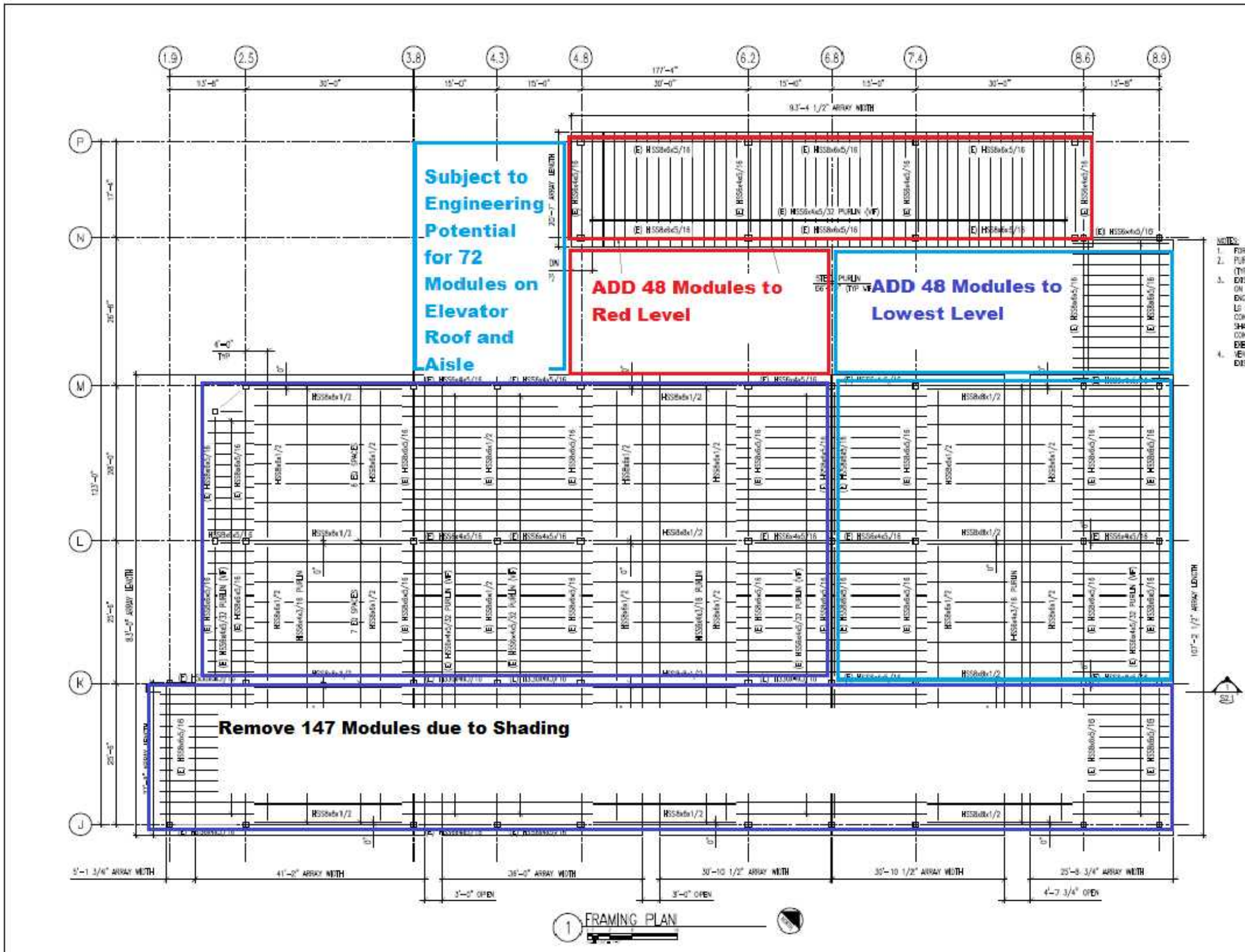
Efficient Structural Solutions



NOTES:
1. FOR T/STEEL ELEVATIONS, SEE 2.1.
2. PURLINS ARE EQUALLY SPACED WITHIN BAY (TYP).
3. EXISTING BUILDING ELEMENTS ARE BASED ON STRUCTURAL DRAWINGS BY SOMLAT ENGINEERS AND STEEL SHOP DRAWINGS BY LS STEEL. ALL EXISTING DIMENSIONS AND CONFIGURATIONS OF STRUCTURAL ELEMENTS SHALL BE VERIFIED IN FIELD BY THE CONTRACTOR PRIOR TO FABRICATION OR ERECTION OF NEW STEEL FRAMING.
4. VERIFY ARRAY EXTENTS SHOWN WITH EXISTING STEEL PURLIN LOCATIONS.

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TGRWA

THE COLLECTION
SOLAR PROJECT
SOUTH STREET & ALA MOANA BLVD
HONOLULU, HI 96850

DATE: 07/23/2019
DESIGNED BY: NEH

FRAMING PLAN

SHEET
S1.1

Net Gain of 21 Modules to 947 Modules

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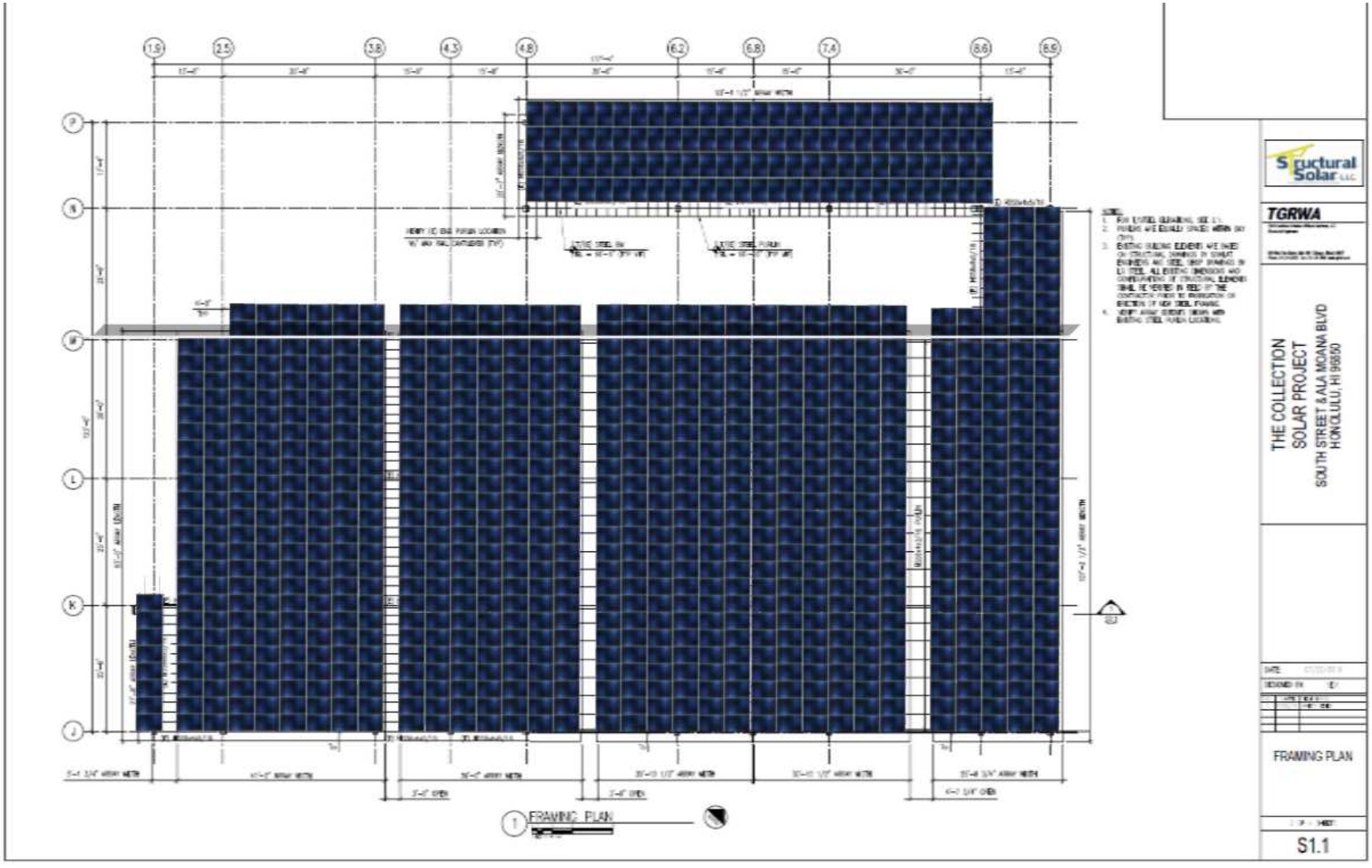
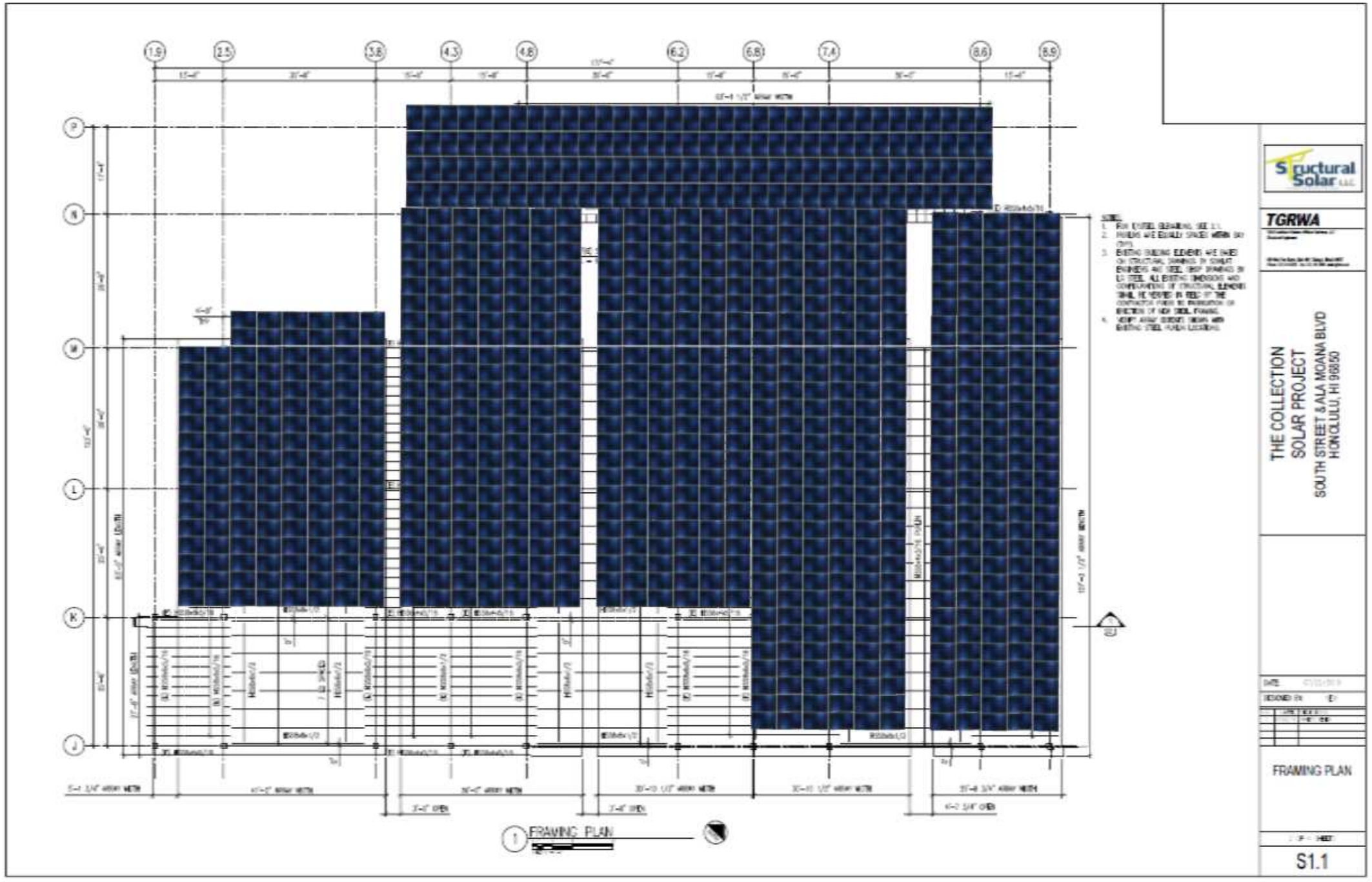
EFFICIENT STRUCTURAL SOLUTIONS



Prior Layout 926 Modules



Current Layout with 947 Modules

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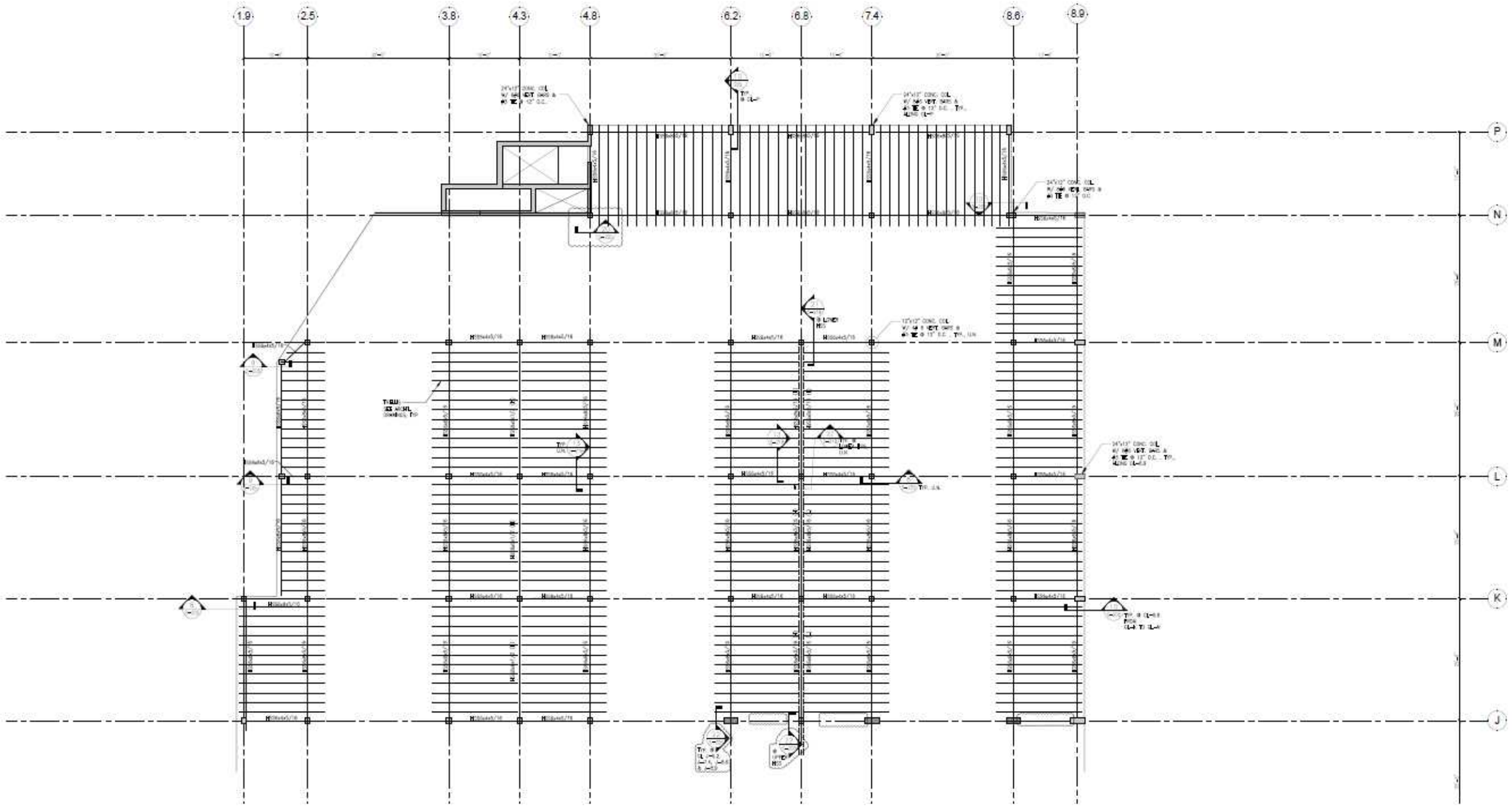

1 7th FLOOR TRELLIS PLAN PARKING
SCALE : 1/8 " = 1'-0"

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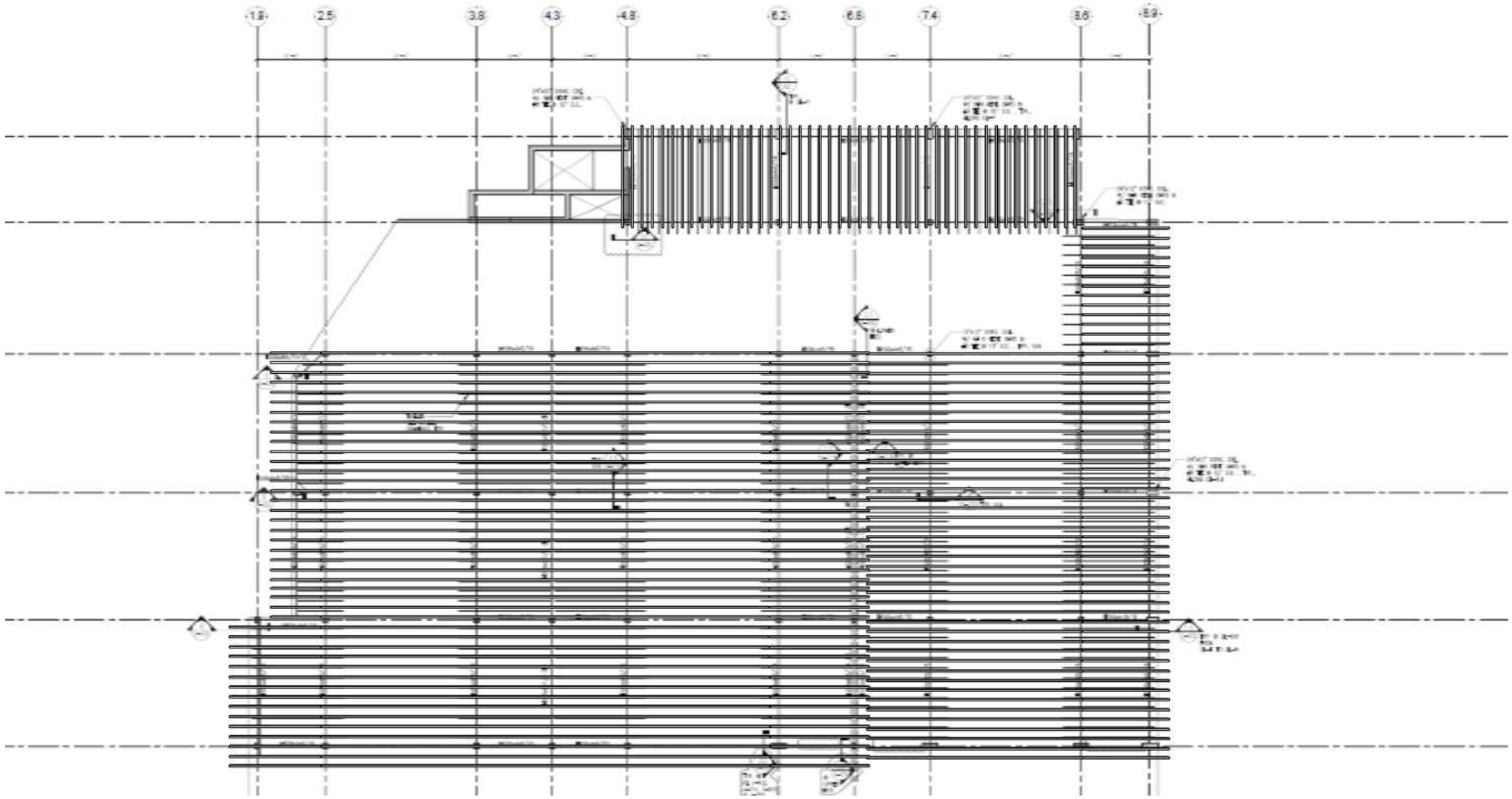
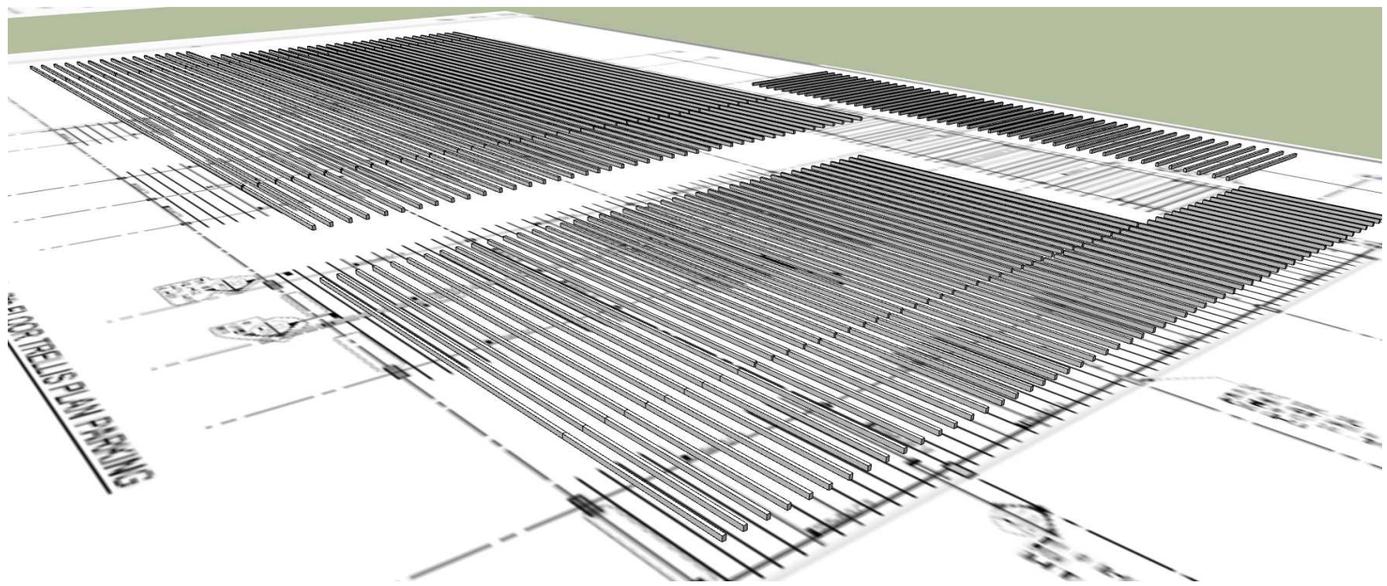


Proposed Trellis Extended Roof Framing Plan



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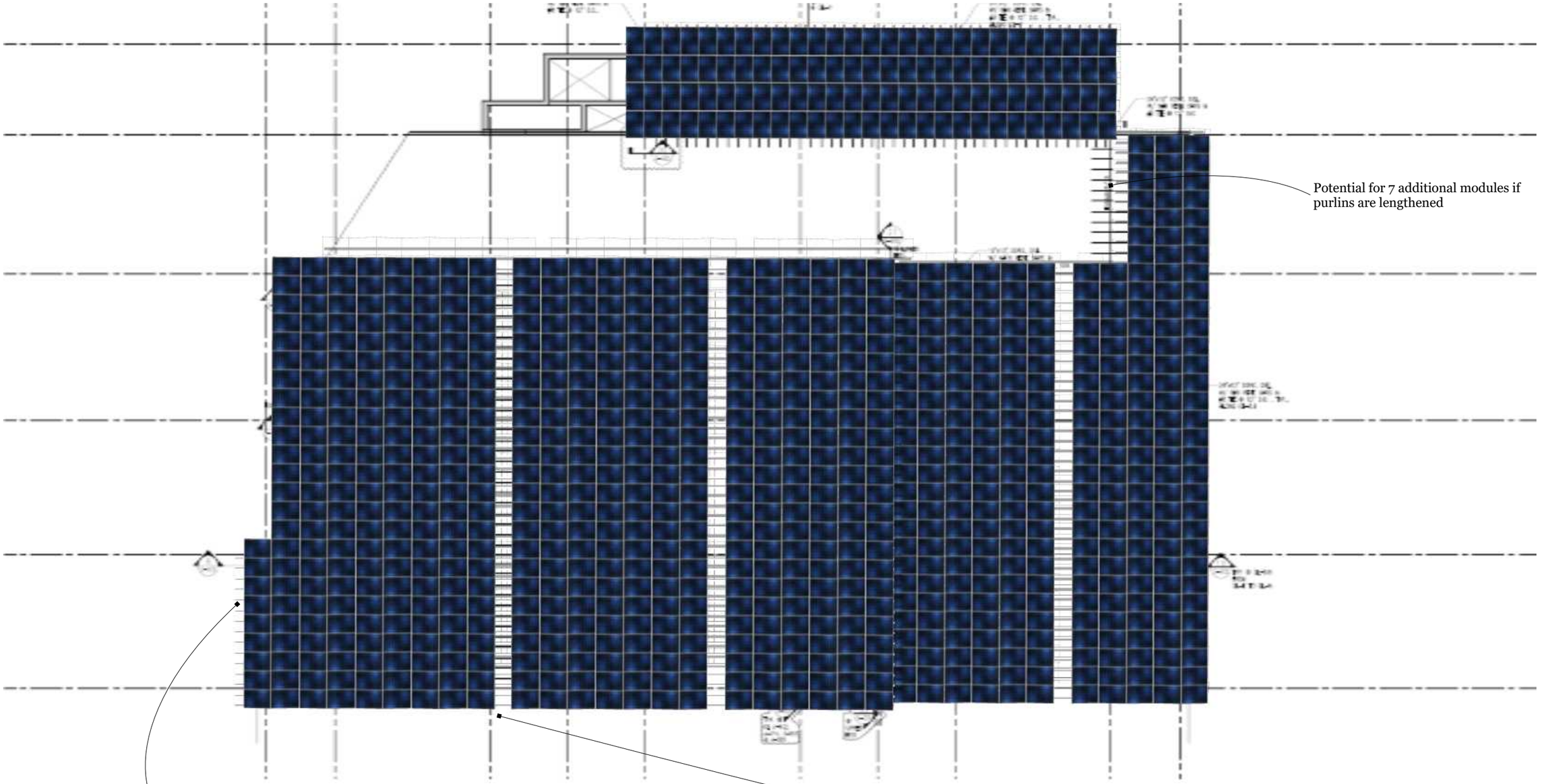

Plan provides for 906 Subject Modules

Proposed Module Setting Plan (Trellis Only)

If airspace was not required, another 24 modules could be added

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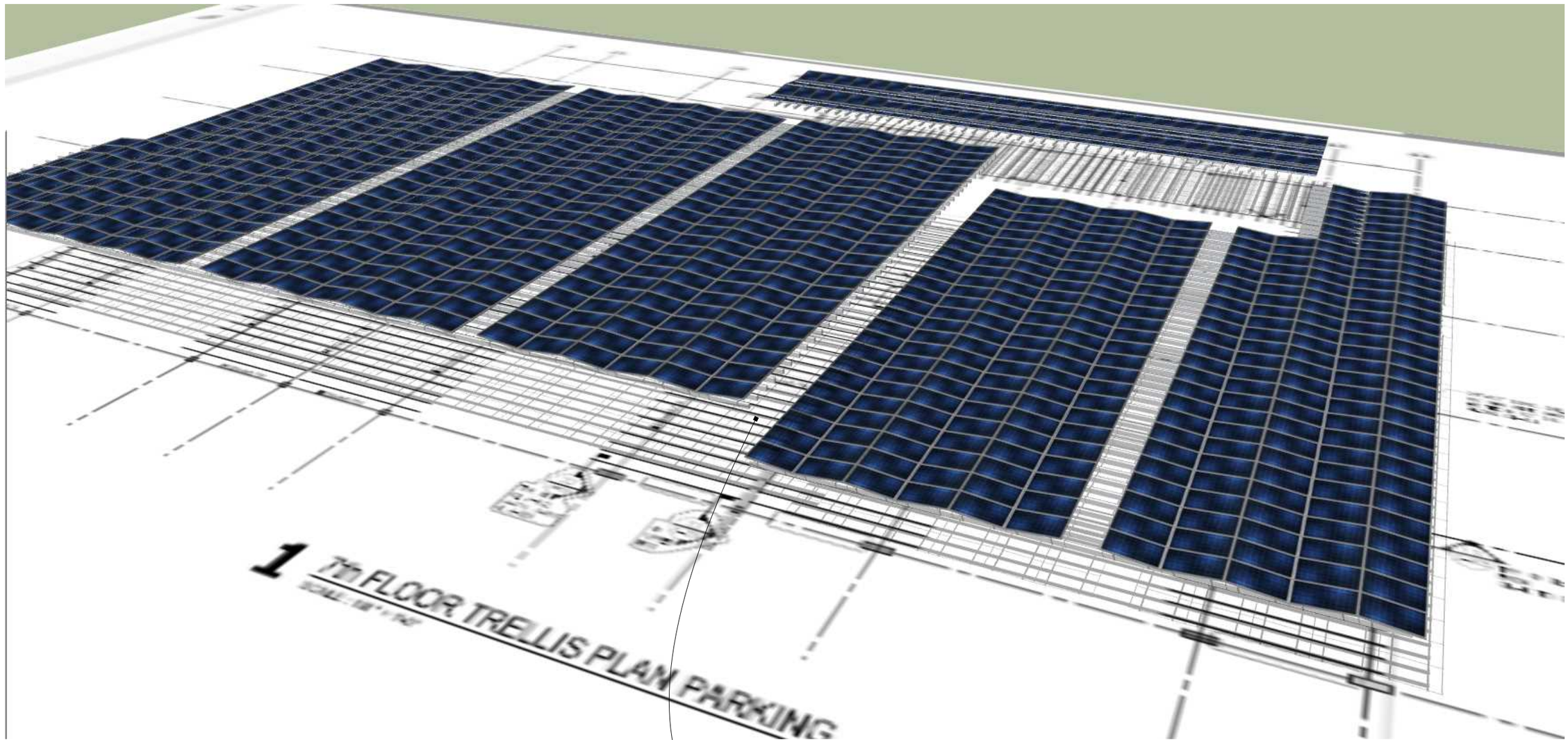

Additional 65" of airspace due to elevation change

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Tilt Legs

Racking Concept to tilt individual rows of modules on an otherwise flat trellis

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PR HEAVY DIVISION LLC
A701 THE COLLECTION - PARKING TRELLIS

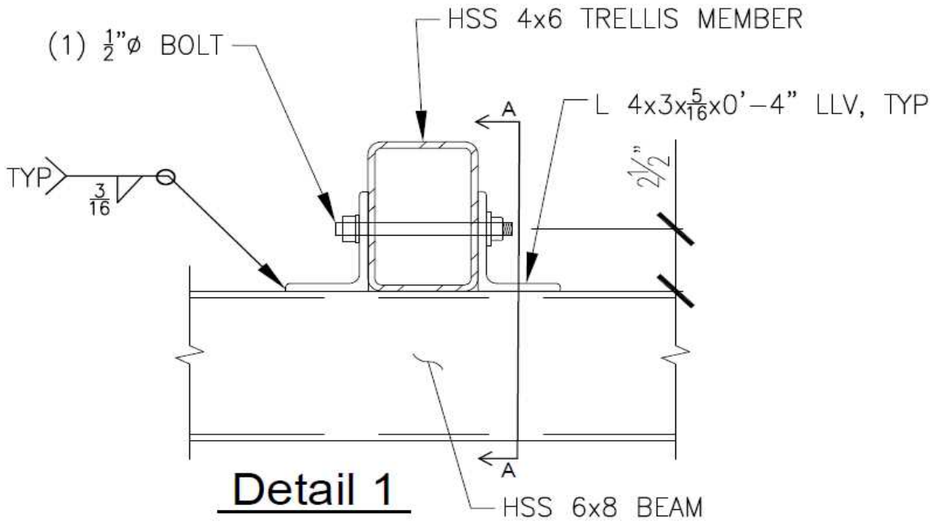
Approved by HDCC
Ray Milner 5/6/2016

PROJECT: A400-701 STEEL PARKING TRELLIS

FINAL TAKEOFF FOR SHOP DRAWINGS

No.	Mark	Size	Steel Grade	Count Requried	Overall Length (lin ft)		Total (Lin Ft)	Left hole setback (in)	Right hole setback (in)
1	TB-1	100 mm x 150 mm x 4 mm	Q235	25 ea	8 ft	0 in	200.00 ft	7 in	30 in
2	TB-1A	100 mm x 150 mm x 4 mm	Q235	1 ea	6 ft	10 in	6.83 ft	None	30 in
3	TB-2	100 mm x 150 mm x 4 mm	Q235	13 ea	17 ft	0 in	221.00 ft	10 in	30 in
4	TB-3	100 mm x 150 mm x 4 mm	Q235	40 ea	17 ft	6 in	700.00 ft	1.250 in	30 in
5	TB-4	100 mm x 150 mm x 4 mm	Q235	40 ea	17 ft	6 in	700.00 ft	1.250 in	30 in
6	TB-5	100 mm x 150 mm x 4 mm	Q235	40 ea	17 ft	9 in	710.00 ft	3 in	30 in
7	TB-6	100 mm x 150 mm x 4 mm	Q235	40 ea	17 ft	0 in	680.00 ft	3 in	30 in
8	TB-7	100 mm x 150 mm x 4 mm	Q235	52 ea	17 ft	0 in	884.00 ft	10 in	30 in
9	TB-8	100 mm x 150 mm x 4 mm	Q235	45 ea	20 ft	8 in	930.00 ft	10 in	30 in
10	TOTAL			296 ea			5,031.83 ft		

Trellis top (cross members)4 x 6 x.16 wall. Engineering to review but otherwise appears to be adequate for intended application

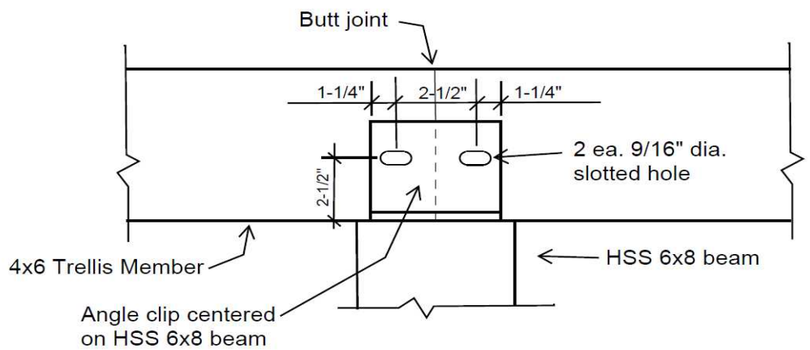


Detail 1

TRELLIS MEMBER CONNECTION

TRELLIS MEMBER CONNECTION

Detail 2



A-A

Hoakalei Country Club, Ewa Beach HI

Precedents

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Marine Corps Base, Kaneohe HI

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NJ DEPARTMENT OF MILITARY
PHOTOVOLTAIC CARPORTS
AT LAWRENCEVILLE, NJ

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Promenade Solar Project; Alachua FL

Frameless BiFacial Modules

PORT HUENEME
SOLAR PROJECT

1100 23RD AVE, BUILDING 1100
PORT HUENEME, CA 93043

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Marine Corps Base, Quantico VA

Structural Solar L.L.C.
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Marine Corps Base, Kaneohe HI

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Country Club Plaza
Honolulu HI

Century West, Honolulu HI

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Solar Pergola - CT

Structural Solar L.L.C.
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500 KW Installation

US Embassy - Haiti

Honda Motorcars, Cleveland Heights OH

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African Lion Exhibit

Henry Doorly Zoo, Omaha NE

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Catholic University, Washington DC

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Kona Coast Resort, Kona HI

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Burke International, Cincinatti OH

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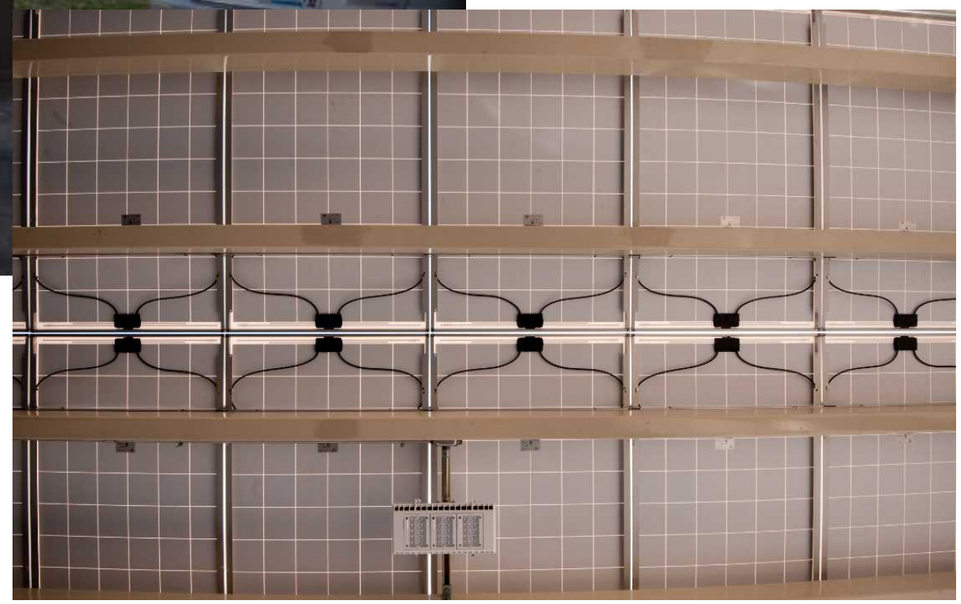

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Canal Street Solar - Duluth MN

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