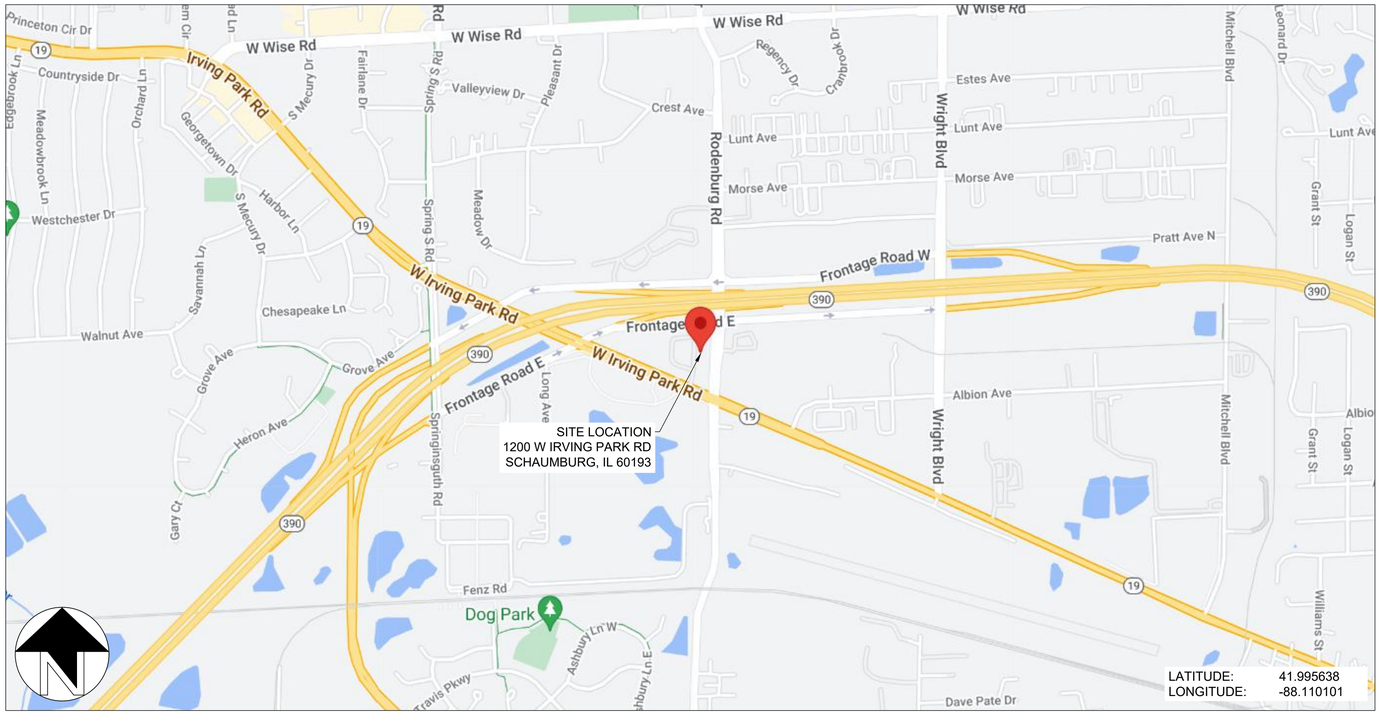
PUBLIC STORAGE #08485 - 1200 W IRVING PARK RD
1200 W IRVING PARK RD, SCHAUMBURG, IL 60193
ROOFTOP PV SYSTEM - ISSUED FOR PERMIT

DRAWING INDEX



DEVELOPER INFORMATION	
DEVELOPER	SOLAR LANDSCAPE
ADDRESS	601 BANGS AVE, UNIT 3
MUNICIPALITY	ASBURY PARK, NJ 07712
PHONE	(646) 419-2645
EMAIL	LUCAS@SOLARLANDSCAPE.COM

SYSTEM CHARACTERISTICS	
DC SIZE (kW DC)	774.88
AC SIZE (kW AC)	500.00
DC/AC RATIO	1.55

MODULE INFORMATION	
MANUFACTURER	JINKO
MODEL NUMBER(S)	JKM580N-72HL4-BDV
PMAX @ STC (W)	580
ISC (A)	14.37
IMP (A)	13.62
VOC (V)	51.47
VMP (V)	42.59
TEMP COEFF OF VOC (%/°C)	-0.25
TEMP COEFF OF PMAX (%/°C)	-0.29
VOC @ MIN TEMP.	59.06
VMP @ MAX TEMP.	37.71
NUMBER OF MODULES	1336

INVERTER INFORMATION	
MANUFACTURER	SOLAREDGE
MODEL NUMBER(S)	SE100K-US×8xxxx (480V)
MAXIMUM DC INPUT VOLTAGE (V)	1000
MAXIMUM DC INPUT POWER (W)	175000
NOMINAL AC OUTPUT VOLTAGE (V)	480
MPPT OPERATING VOLTAGE RANGE (V)	SEE OPTIMIZER SPECS
NOMINAL AC POWER (W)	100000
MAX CONTINUOUS OUTPUT CURRENT (A)	120
NUMBER OF INVERTERS	5

OPTIMIZER INFORMATION	
MANUFACTURER	SOLAREDGE
MODEL NUMBER(S)	S1201
MODULES PER OPTIMIZER	2
MAXIMUM SYSTEM VOLTAGE (V)	1000
RATED DC INPUT POWER (W)	1200
MAX CONTINUOUS OUTPUT CURRENT (A)	18
MPPT VOLTAGE RANGE	12.5 - 125
NUMBER OF OPTIMIZERS	675

PROJECT NOTES:

1. CONSULT SOLAR LANDSCAPE BEFORE DEVIATING FROM THIS DRAWING PACKAGE.
2. PROJECT TYPE: COMMUNITY SOLAR
3. UTILITY COMPANY: COMED
4. INTERCONNECTION VOLTAGE: 12470V
5. AHJ: SCHAUMBURG VILLAGE

COMMERCIAL CONSTRUCTION DESIGN PARAMETERS

HIGH TEMPERATURE:	29.5°C
LOW TEMPERATURE:	-34.0°C

APPLICABLE CODES

NATIONAL ELECTRICAL CODE - NFPA 70 2020 (NEC)

STANDARD FOR ELECTRICAL SAFETY IN THE WORKFORCE - NFPA 70E 2018

INTERNATIONAL ELECTRICAL TESTING ASSOCIATION - ANSI/NETA STANDARD

UL 1703 - SOLAR MODULES

UL 1741 - INVERTERS, COMBINER BOXES (UL1741SA WHERE APPLICABLE)

UL 2703 - RACKING RAILS, MOUNTS AND CLAMPS FOR PV MODULES

2021 INTERNATIONAL BUILDING CODE (IBC)

2021 INTERNATIONAL EXISTING BUILDING CODE (IEBC)

2021 INTERNATIONAL FIRE CODE (IFC)

FOR OFFICIAL USE ONLY:

	EXISTING BUILDING	PROPOSED ALTER
IBC OCCUPANCY CLASSIFICATION	STORAGE S2	STORAGE S2
NFPA 101 CLASSIFICATION	STORAGE	STORAGE
TYPE OF CONSTRUCTION	TYPE I & TYPE II	TYPE I & TYPE II
NUMBER OF STORIES ABOVE GRADE	1	1
HIGH RISE (Y / N)	N	N
COVERED MALL (Y / N)	N	N
FULLY SPRINKLERED (Y / N)	Y	Y
FIRE ALARM (Y / N)	Y	Y
FLOOR AREA OF RENOVATION	NA	ROOFTOP SOLAR - 62,619 SQ FT

David C. Hernandez
Digitally signed by David C. Hernandez,
Date: 2024.08.22 15:54:04 -04:00

solarlandscape

EXACTUS ENERGY
NEW AGE ENGINEERING

ELECTRICAL CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
DAVID C. HERNANDEZ
062-068288
OF ILLINOIS

PUBLIC STORAGE #08485 - 1200 W IRVING PARK RD
1200 W IRVING PARK RD
SCHAUMBURG, IL 60193

DRAWN BY
JM

CHECKED BY
PB

DATE
21-Aug-2024

DRAWING LEVEL
ISSUED FOR PERMIT

REV.	DATE	DRAWING LEVEL
A	21-AUG-2024	ISSUED FOR PERMIT
B		
C		
D		
E		

SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
NTS

SHEET TITLE
G01
TITLE SHEET

NOTES:

1. ALL DIMENSIONS TO BE FIELD VERIFIED. LOCATIONS SHOWN ARE APPROXIMATE.
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3. CARE SHALL BE TAKEN TO ENSURE CONDUITS AND RACEWAYS ARE ORIENTED TO MINIMIZE INTERFERENCE WITH FIRE ACCESS WALKWAYS.
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5. PROPERTY LINE DETERMINED FROM PUBLICLY AVAILABLE GIS DATA.
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7. MODULE LAYOUT IS SUBJECT TO CHANGE BASED ON AVAILABLE STRUCTURAL CAPACITY AND POWER GRID AVAILABILITY.
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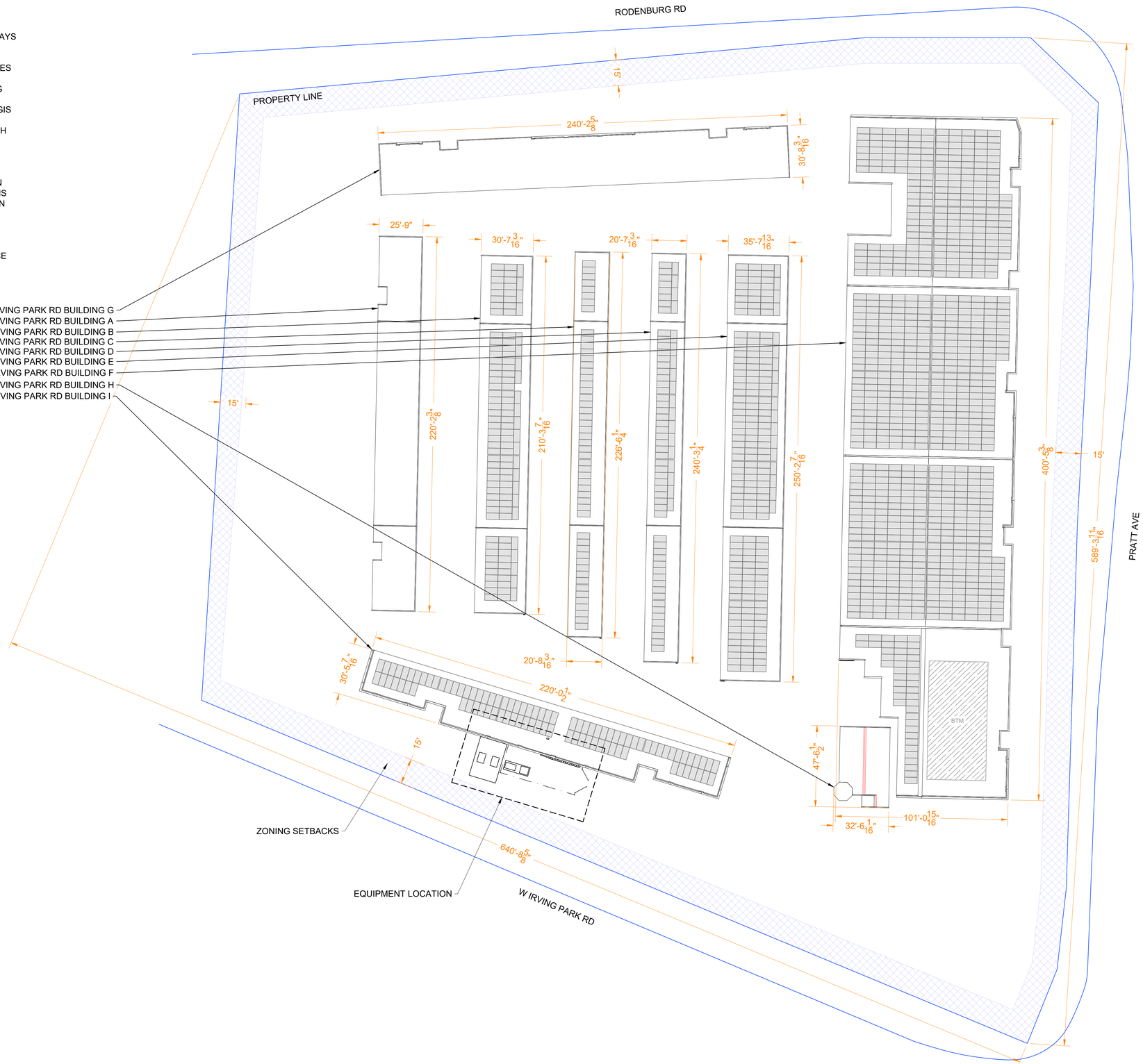

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SHEET SIZE
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SCALE
1:350

SHEET TITLE

G10

OVERALL SITE PLAN

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LEGEND

	DRAIN		ACCESS
	VENT		ELECTRICAL
	GAS		ROOF SEAM
	RTU		SATELLITE
	BOX		SKYLIGHT
	SHADOW		SUPPORT
	TREE		UNSURVEYED
	RIDGE		FIRE ACCESS PATH
	STRUCTURAL KEEPOUT		

PROJECT DETAILS

SYSTEM SIZE	774.88 KW DC
NUMBER OF MODULES	1336
MODULE MODEL	JINKO SOLAR JKM580N-72HL4-BDV (580W)
MODULE SIZE	89.68" X 44.65"
SITE SURVEY DATE	18-APR-2024

ROOF DETAILS

ROOF #	PITCH	ARRAY AZIMUTH	MODULE TILT	MODULE COUNT	MATERIAL	HEIGHT ABOVE GRADE
A1	3.2°	-	-	-	METAL	10'-0"
A2	3.2°	-	-	-	METAL	10'-0"
A3	2.9°	-	-	-	METAL	10'-0"
B1	2.6°	271°	-	20	METAL	9'-7"
B2	2.6°	271°	-	72	METAL	9'-7"
B3	2.5°	271°	-	25	METAL	9'-7"
C1	2.1°	271°	-	8	METAL	9'-0"
C2	2°	271°	-	29	METAL	9'-0"
C3	1.9°	271°	-	15	METAL	9'-0"
D1	1.9°	271°	-	12	METAL	9'-0"
D2	2.2°	271°	-	43	METAL	9'-0"
D3	2.2°	271°	-	18	METAL	9'-0"
E1	2.1°	271°	-	28	METAL	9'-7"
E2	2.2°	271°	-	101	METAL	9'-7"
E3	2.2°	271°	-	63	METAL	9'-7"
F1	1.4°	271°	-	125	METAL	11'-6"
F2	1.5°	271°	-	94	METAL	9'-8"
F3	1.4°	271°	-	130	METAL	10'-8"
F4	1.5°	271°	-	144	METAL	8'-10"
F5	1.3°	271°	-	130	METAL	11'-0"
F6	1.6°	271°	-	144	METAL	9'-2"
F7	1.4°	-	-	-	METAL	11'-10"
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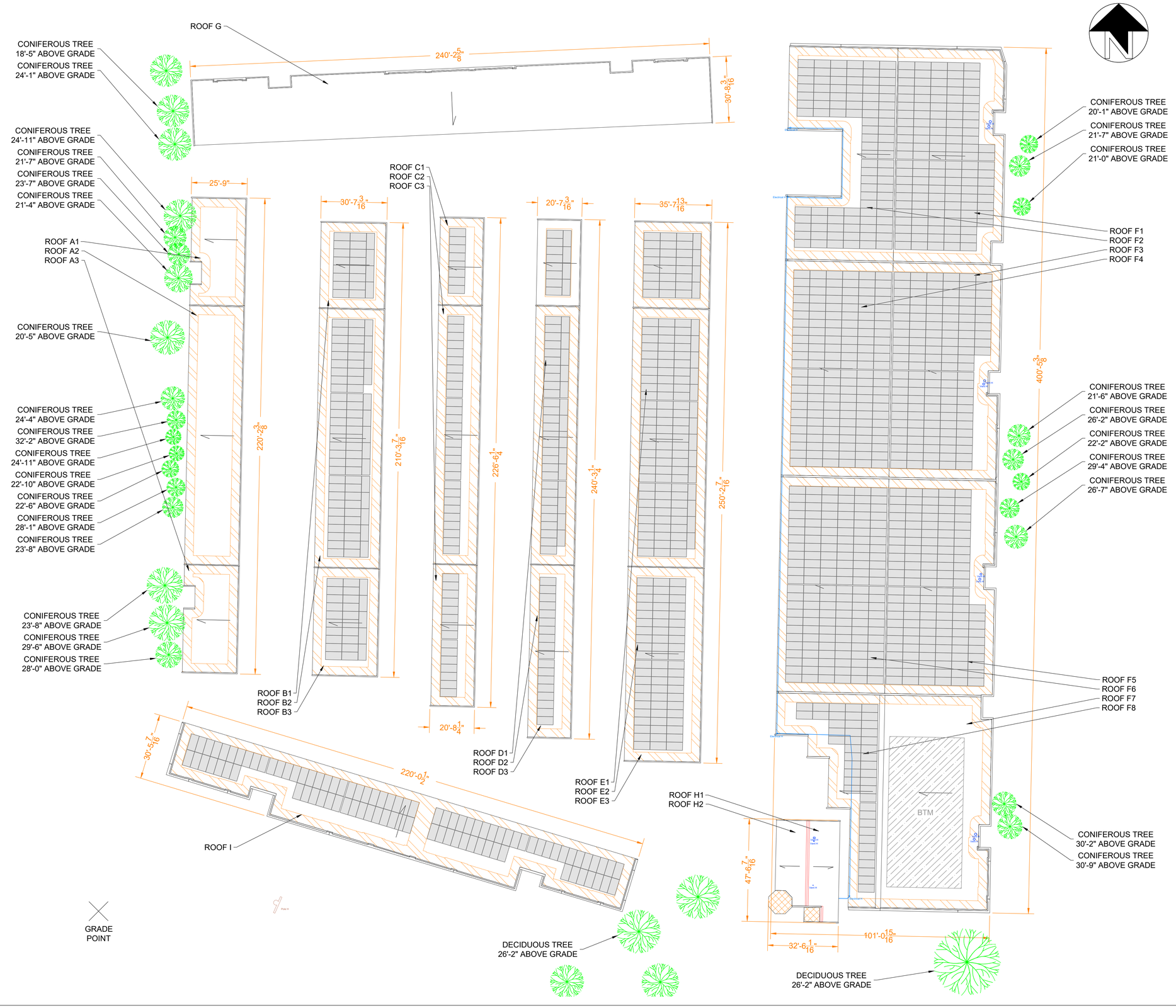
G	2.8°	-	-	-	METAL	11'-0"
H1	26.4°	-	-	-	METAL	10'-6"
H2	26.1°	-	-	-	METAL	10'-5"
I	2.6°	17°	-	92	METAL	10'-5"



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SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
1:250

SHEET TITLE

G20

ARRAY PLAN

NOTES:

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	DRAIN		ACCESS
	VENT		ELECTRICAL
	GAS		ROOF SEAM
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A3	2.9°	-	-	-	METAL	10'-0"
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C1	2.1°	271°	-	8	METAL	9'-0"
C2	2°	271°	-	29	METAL	9'-0"
C3	1.9°	271°	-	15	METAL	9'-0"
D1	1.9°	271°	-	12	METAL	9'-0"
D2	2.2°	271°	-	43	METAL	9'-0"
D3	2.2°	271°	-	18	METAL	9'-0"
E1	2.1°	271°	-	28	METAL	9'-7"
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E3	2.2°	271°	-	63	METAL	9'-7"
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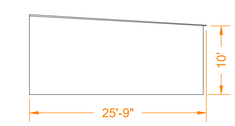
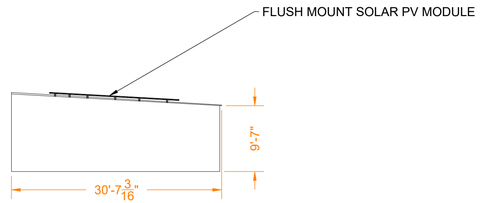
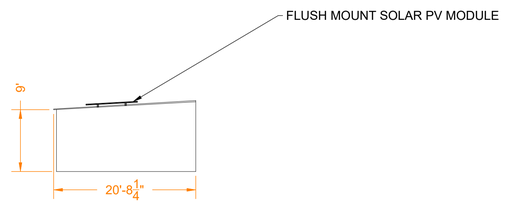


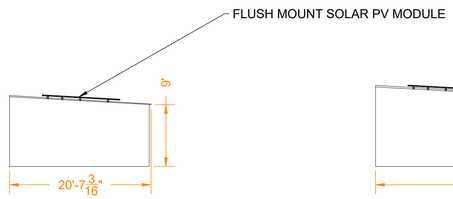
G21 1 ROOF A1, A2, AND A3 (BUILDING A)
Scale 1:125



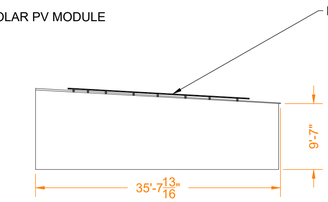
G21 2 ROOF B1, B2, AND B3 (BUILDING B)
Scale 1:125



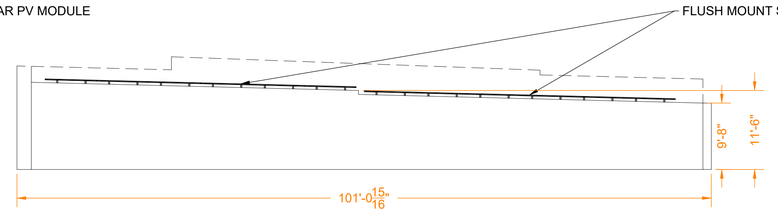
G21 3 ROOF C1, C2, AND C3 (BUILDING C)
Scale 1:125



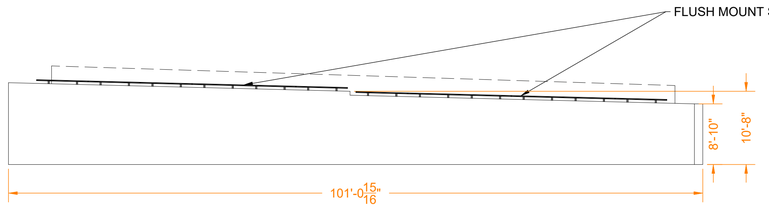
G21 4 ROOF D1, D2, AND D3 (BUILDING D)
Scale 1:125



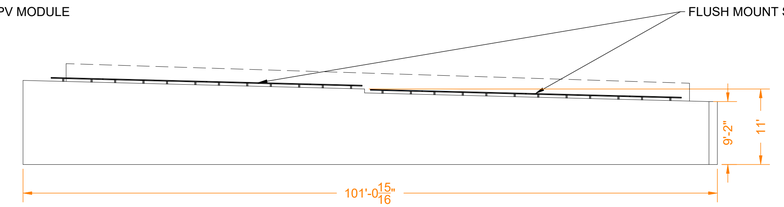
G21 5 ROOF E1, E2, AND E3 (BUILDING E)
Scale 1:125



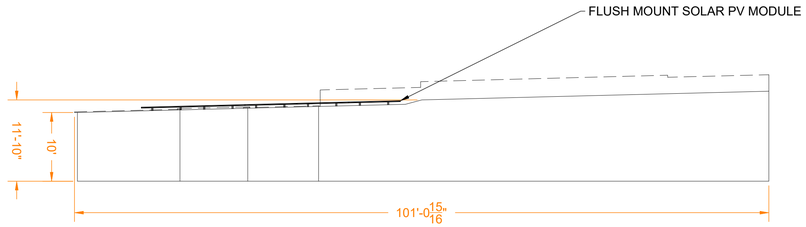
G21 6 ROOF F1 AND F2 (BUILDING F)
Scale 1:125



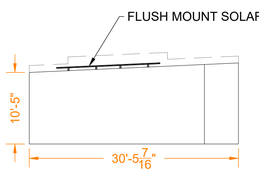
G21 7 ROOF F3 AND F4 (BUILDING F)
Scale 1:125



G21 8 ROOF F5 AND F6 (BUILDING F)
Scale 1:125



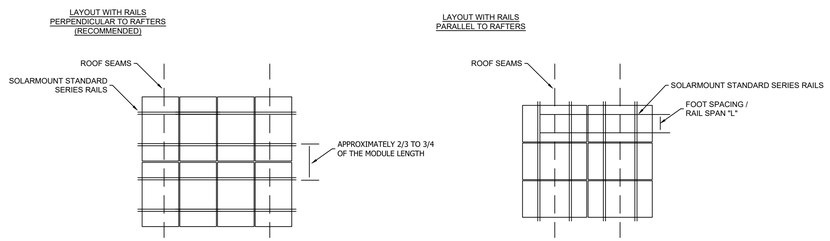
G21 9 ROOF F7 AND F8 (BUILDING F)
Scale 1:125



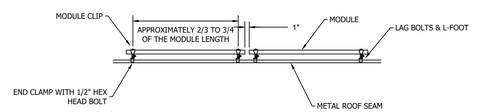
G21 10 ROOF I (BUILDING I)
Scale 1:125

NOTES:

1. MODULES SHOULD BE POSITIONED SO THAT RAILS ARE FLUSH WITH EDGE OF MODULE OR EXTENDING NO MORE THAN 1/2" BEYOND EDGE OF MODULE. THE MODULES SHOULD NOT EXTEND PAST (OVERHANG) THE ENDS OF RAILS.
2. MODULE GAP IS 1/2" (E-W) AND 1" FOR ROW SPACING (N-S).
3. THERE IS 6" MODULE TO MODULE GAP FOR EVERY 12 MODULES MAXIMUM FOR THERMAL EXPANSION.



G21 11 RACKING DETAILS - SOLARMOUNT STANDARD SERIES
SCALE: NTS



G21 12 RACKING DETAILS - SOLARMOUNT STANDARD SERIES
SCALE: NTS

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SHEET TITLE
G21
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	STRUCTURAL KEEPOUT		

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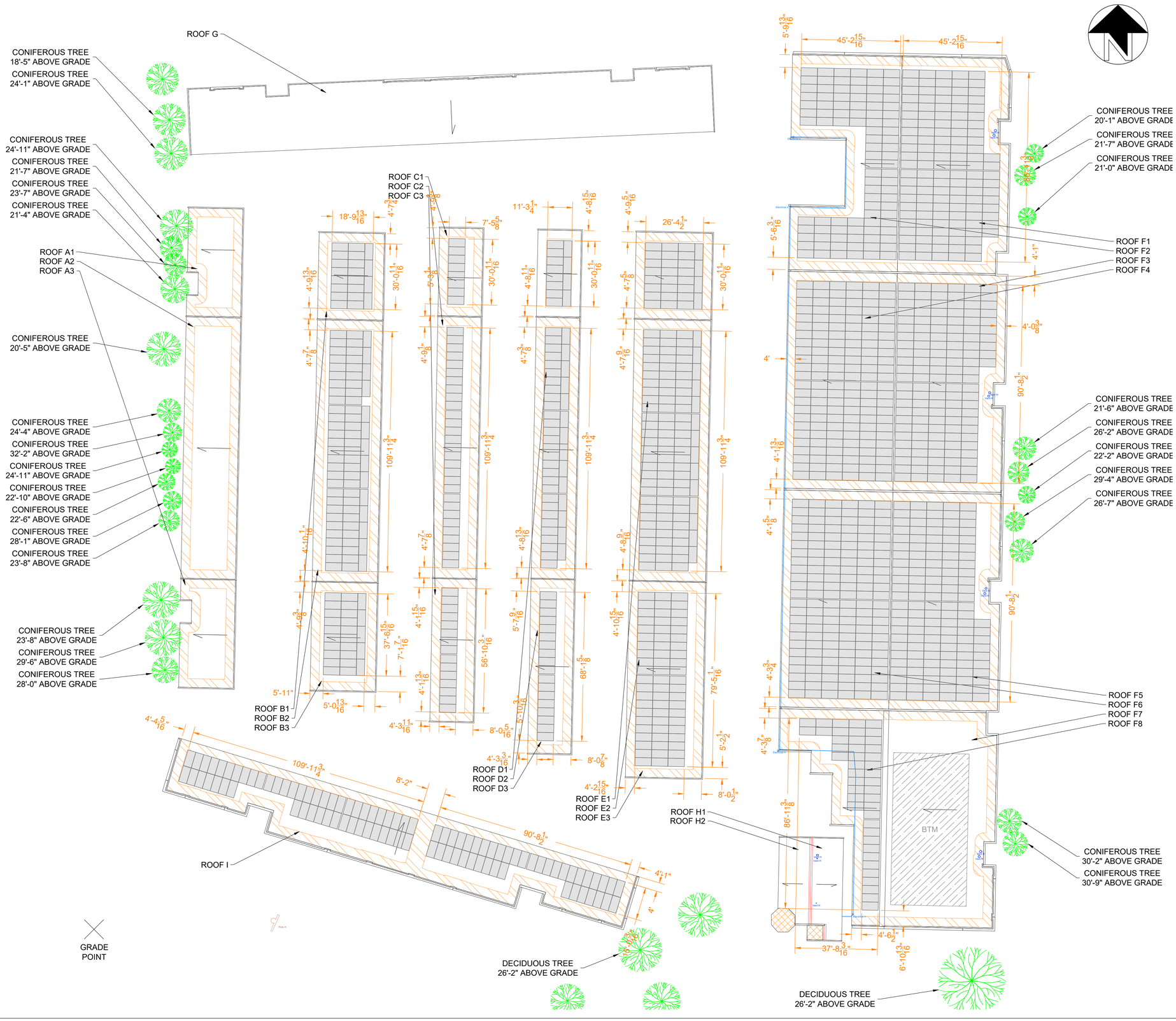
A1	3.2°	-	-	-	METAL	10'-0"
A2	3.2°	-	-	-	METAL	10'-0"
A3	2.9°	-	-	-	METAL	10'-0"
B1	2.6°	271°	-	20	METAL	9'-7"
B2	2.6°	271°	-	72	METAL	9'-7"
B3	2.5°	271°	-	25	METAL	9'-7"
C1	2.1°	271°	-	8	METAL	9'-0"
C2	2°	271°	-	29	METAL	9'-0"
C3	1.9°	271°	-	15	METAL	9'-0"
D1	1.9°	271°	-	12	METAL	9'-0"
D2	2.2°	271°	-	43	METAL	9'-0"
D3	2.2°	271°	-	18	METAL	9'-0"
E1	2.1°	271°	-	28	METAL	9'-7"
E2	2.2°	271°	-	101	METAL	9'-7"
E3	2.2°	271°	-	63	METAL	9'-7"
F1	1.4°	271°	-	125	METAL	11'-6"
F2	1.5°	271°	-	94	METAL	9'-8"
F3	1.4°	271°	-	130	METAL	10'-8"
F4	1.5°	271°	-	144	METAL	8'-10"
F5	1.3°	271°	-	130	METAL	11'-0"
F6	1.6°	271°	-	144	METAL	9'-2"
F7	1.4°	-	-	-	METAL	11'-10"
F8	1.8°	271°	-	43	METAL	10'-0"
G	2.8°	-	-	-	METAL	11'-0"
H1	26.4°	-	-	-	METAL	10'-6"
H2	26.1°	-	-	-	METAL	10'-5"
I	2.6°	17°	-	92	METAL	10'-5"



solarlandscape

EXACTUS ENERGY
NEW AGE ENGINEERING

ELECTRICAL CERTIFICATION

LICENSED PROFESSIONAL ENGINEER
DAVID C. HERNANDEZ
062-068288
STATE OF ILLINOIS

PUBLIC STORAGE #08485 - 1200 W IRVING PARK RD
1200 W IRVING PARK RD
SCHAUMBURG, IL 60193

DRAWN BY
JM

CHECKED BY
PB

DATE
21-Aug-2024

DRAWING LEVEL
ISSUED FOR PERMIT

REV.	DATE	DRAWING LEVEL
A	21-AUG-2024	ISSUED FOR PERMIT
B		
C		
D		
E		

SHEET SIZE
36X24 SHOULD MEASURE 1":

SCALE
1:250

SHEET TITLE

G22

ARRAY DIMENSIONS

NOTES:

1. ALL DIMENSIONS TO BE FIELD VERIFIED. LOCATIONS SHOWN ARE APPROXIMATE.
2. ALL PV ELECTRICAL EQUIPMENT TO BE INSTALLED AS PER INSTALLATION MANUALS AND NEC REQUIREMENTS.
3. CARE SHALL BE TAKEN TO ENSURE CONDUITS AND RACEWAYS ARE ORIENTED TO MINIMIZE INTERFERENCE WITH FIRE ACCESS WALKWAYS.
4. EXACT LOCATION AND SPACING OF PHOTOVOLTAIC MODULES TO BE ESTABLISHED ACCORDING TO THE FINAL CONFIGURATION DETERMINED BY INSTALLER AND RACKING MANUFACTURER
5. PROPERTY LINE DETERMINED FROM PUBLICLY AVAILABLE GIS DATA.
6. THIS DRAWING PROVIDES AN OVERVIEW ONLY AND AS SUCH SHOULD NOT BE RELIED ON FOR EXACT DIMENSIONS.
7. MODULE LAYOUT IS SUBJECT TO CHANGE BASED ON AVAILABLE STRUCTURAL CAPACITY AND POWER GRID AVAILABILITY.
8. ROOF AND MODULE LAYOUTS ARE BASED ON INFORMATION COLLECTED DURING THE SITE SURVEY. ROOF ALTERATIONS MADE AFTER THE SURVEY DATE WILL NOT BE REFLECTED IN THIS DRAWING.
9. TREES DO NOT SHADE ANY ROOF UNLESS TREE HEIGHT IS SPECIFIED.
10. ALL DIMENSIONS REPRESENT THREE-DIMENSIONAL PATH PROJECTIONS OF WHICH THE ROOF'S PITCH CAN INFLUENCE THE ACCURACY OF THE MEASUREMENTS.

LEGEND

	DRAIN		ACCESS
	VENT		ELECTRICAL
	GAS		ROOF SEAM
	RTU		SATELLITE
	BOX		SKYLIGHT
	SHADOW		SUPPORT
	TREE		UNSURVEYED
	RIDGE		FIRE ACCESS PATH
	STRUCTURAL KEEPOUT		

PROJECT DETAILS

SYSTEM SIZE	774.88 KW DC
NUMBER OF MODULES	1336
MODULE MODEL	JINKO SOLAR JKM580N-72HL4-BDV (580W)
MODULE SIZE	89.68" X 44.65"
SITE SURVEY DATE	18-APR-2024

ROOF DETAILS

ROOF #	PITCH	ARRAY AZIMUTH	MODULE TILT	MODULE COUNT	MATERIAL	HEIGHT ABOVE GRADE
A1	3.2°	-	-	-	METAL	10'-0"
A2	3.2°	-	-	-	METAL	10'-0"
A3	2.9°	-	-	-	METAL	10'-0"
B1	2.6°	271°	-	20	METAL	9'-7"
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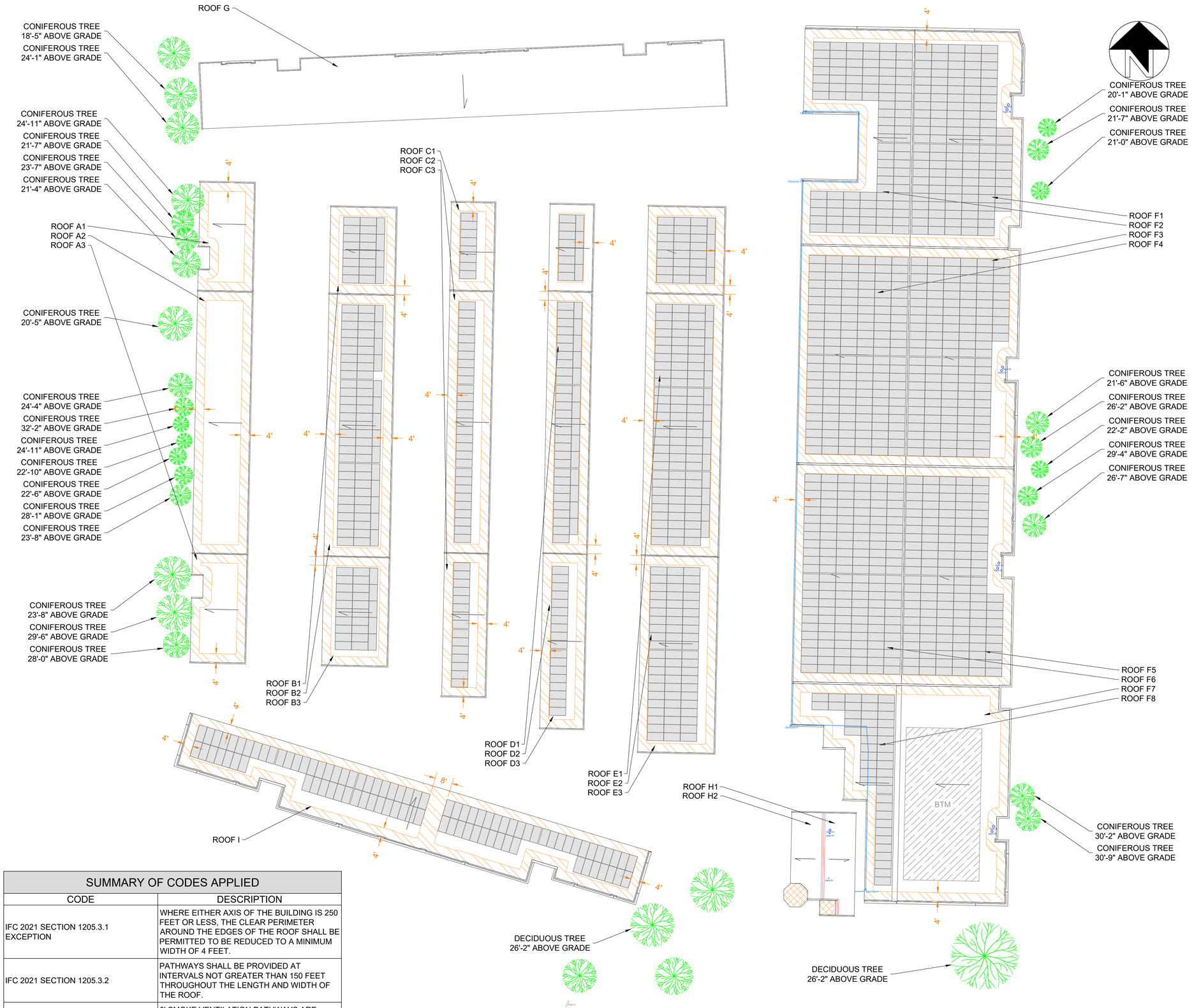

SUMMARY OF CODES APPLIED

CODE	DESCRIPTION
IFC 2021 SECTION 1205.3.1 EXCEPTION	WHERE EITHER AXIS OF THE BUILDING IS 250 FEET OR LESS, THE CLEAR PERIMETER AROUND THE EDGES OF THE ROOF SHALL BE PERMITTED TO BE REDUCED TO A MINIMUM WIDTH OF 4 FEET.
IFC 2021 SECTION 1205.3.2	PATHWAYS SHALL BE PROVIDED AT INTERVALS NOT GREATER THAN 150 FEET THROUGHOUT THE LENGTH AND WIDTH OF THE ROOF.
IFC 2021 SECTION 1205.3.3	8' SMOKE VENTILATION PATHWAYS ARE PROVIDED BETWEEN ARRAY SECTIONS.

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FIRE ACCESS PLAN