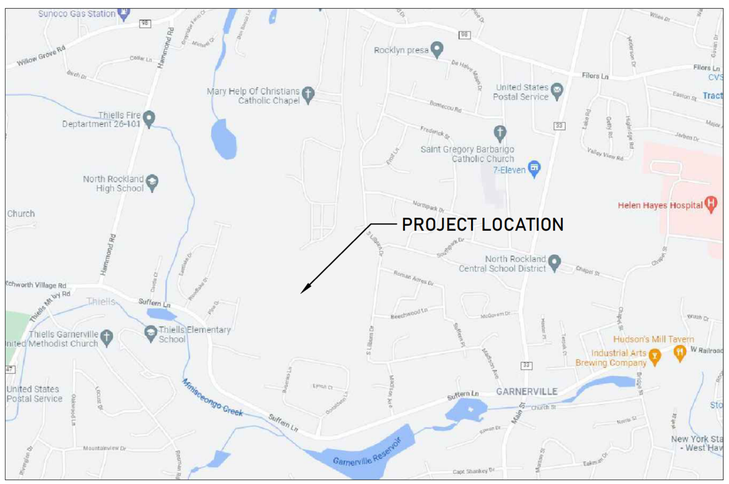
6,310 KW(DC) GROUND MOUNTED PHOTOVOLTAIC SYSTEM AT

MARIAN SHRINE

174 FILORS LANE, STONY POINT, NY 10980

VICINITY MAP:



AERIAL VIEW:

SYSTEM SUMMARY:

TOTAL DC SYSTEM SIZE:	6,310 kWDC
TOTAL AC SYSTEM SIZE:	5,000 kWAC
MODULE MANUFACTURER:	HANWHA
MODULE MODEL:	Q.PEAK DUO XL-G12S/BFG 675W
MODULES PER STRING:	22, 23
MODULE QUANTITY:	9,348
STRING QUANTITY:	423
MODULE TILT:	15°
MODULE AZIMUTH:	186.45°, 187°
INVERTER MANUFACTURER:	SUNGROW
INVERTER MODEL:	SG125HV
INVERTER QUANTITY:	(40) SG125HV

DESIGN CRITERIA:

WIND SPEED:	TBD
EXPOSURE CATEGORY:	TBD
GROUND SNOW LOAD:	30 PSF
2% AVG TEMPERATURE:	32°C
LOW TEMPERATURE:	-17°C

APPLICABLE CODES:

STRUCTURAL:	IBC 2015
CIVIL:	ASCE 7-10
ELECTRICAL:	NEC 2017
INTERCONNECTION:	IEEE 1547
INVERTER:	UL 1741
RACK GROUNDING:	UL 2703
MODULE:	UL 1703

PROJECT SCOPE:

INSTALLATION OF SOLAR MODULES SUPPORTED BY A GROUND MOUNTED RACKING SYSTEM. INSTALLATION OF INVERTERS AND ELECTRICAL DISTRIBUTION EQUIPMENT TO INTERCONNECT AT NEW ELECTRICAL SERVICE AT 13.2KV AND WILL BE OPERATED IN PARALLEL WITH THE ORANGE AND ROCKLAND ELECTRIC GRID PER THE REQUIREMENTS OF THE NEC..

PROJECT INFORMATION

PROJECT NAME:
MARIAN SHRINE

PROJECT ADDRESS:
174 FILORS LANE,
STONY POINT, NY 10980

PROJECT DEVELOPER
CORE DEVELOPMENT GROUP
860 WYCKOFF AVE,
SUITE 200, MAHWAH, NJ 07430

UTILITY SERVICE PROVIDER:
ORANGE & ROCKLAND (O&R)
PROJECT ID: CDG-00463

PROJECT DESIGNER:
AARON BEASLEY

DRAWING INDEX

G001	TITLE SHEET
G101	SITE PLAN
G103	DESIGN COMPARISON

860 WYCKOFF AVE, SUITE 200
MAHWAH, NJ 07430
WWW.COREDEVUSA.COM
201.825.2195

REV	DATE	DESCRIPTION	ENG	CHK
4	8/29/23	PERMIT DESIGN OPEN FIELD Q CELL	AJB	
5	9/25/23	DESIGN OPEN FIELD Q CELL DCE	AJB	
6	11/17/23	DESIGN OPEN FIELD Q CELL DCE	AJB	
7	4/18/24	UPDATED COMMUNITY COMMENTS	AJB	
8	6/3/24	UPDATED COMMUNITY COMMENTS R2	AJB	

SYSTEM SPECIFICATIONS:
DC SYSTEM SIZE: 6,300 kW
AC SYSTEM SIZE: 5,000 kW
MODULE TYPE: XL-G12S/BFG 675W
MODULE QUANTITY: 9,348
STRING QUANTITY: 423
ORIENTATION: PORTRAIT

PROJECT
MARIAN SHRINE
174 FILROSE LANE,
STONY POINT, NY 10980

PAGE SIZE
24" X 36"

SCALE
NONE

DRAWING TITLE
TITLE SHEET

DRAWING NUMBER
G001

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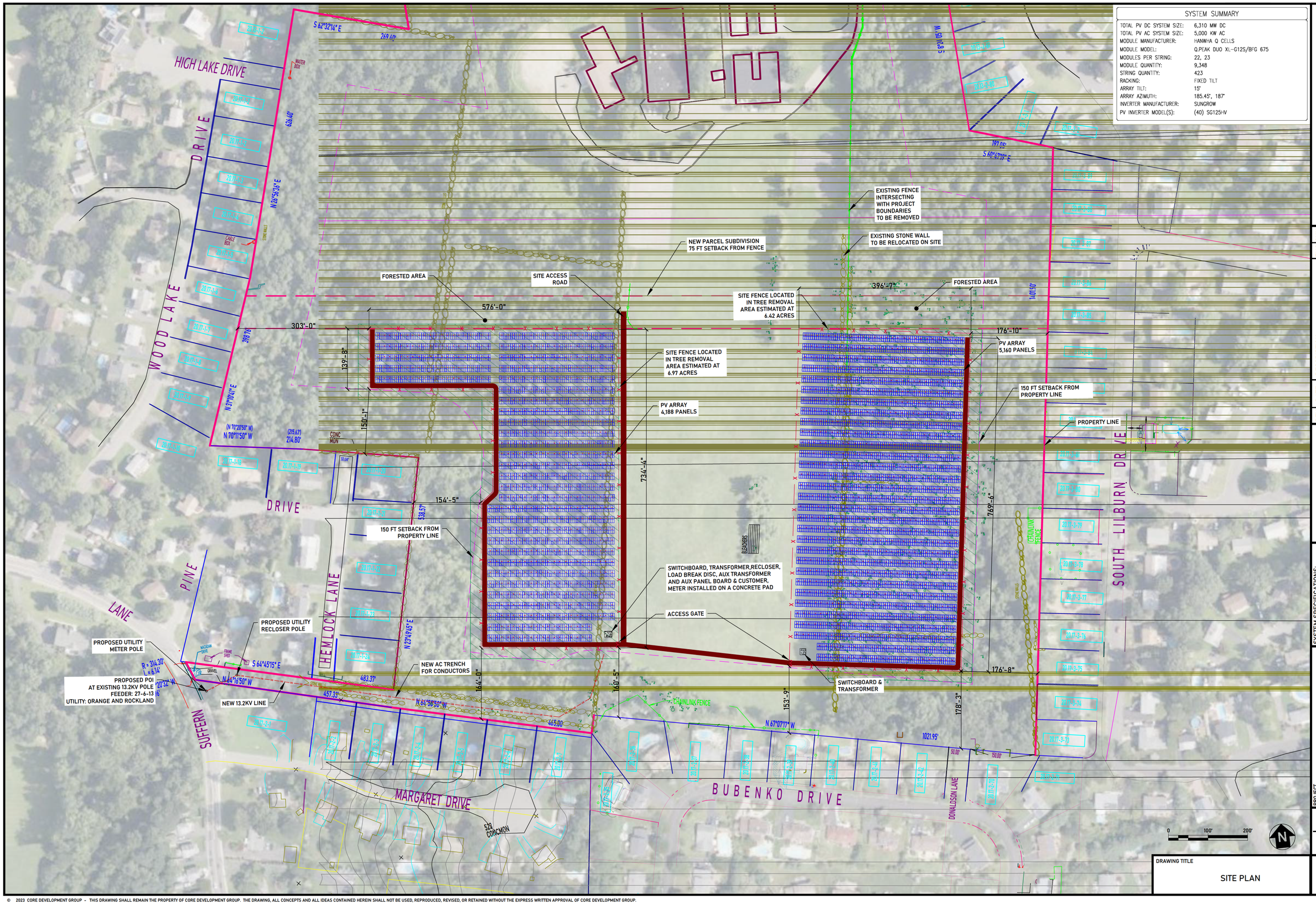

SYSTEM SUMMARY

TOTAL PV DC SYSTEM SIZE:	6,310 MW DC
TOTAL PV AC SYSTEM SIZE:	5,000 KW AC
MODULE MANUFACTURER:	HANWHA Q CELLS
MODULE MODEL:	Q.PEAK DUO XL-G12S/BFG 675
MODULES PER STRING:	22, 23
MODULE QUANTITY:	9,348
STRING QUANTITY:	423
RACKING:	FIXED TILT
ARRAY TILT:	15°
ARRAY AZIMUTH:	185.45°, 187°
INVERTER MANUFACTURER:	SUNGROW
PV INVERTER MODEL(S):	(40) SG125HV

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WWW.COREDEVUSA.COM

REV	DATE	DESCRIPTION	ENG	CHK
4	8/29/23	PERMIT DESIGN OPEN FIELD Q CELL	AJB	
5	9/25/23	DESIGN OPEN FIELD Q CELL DCE	AJB	
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PROJECT
MARIAN SHRINE
174 FILROSE LANE,
STONY POINT, NY 10980

PAGE SIZE
24" X 36"

SCALE
1" = 100'

DRAWING TITLE
SITE PLAN

DRAWING NUMBER
G101

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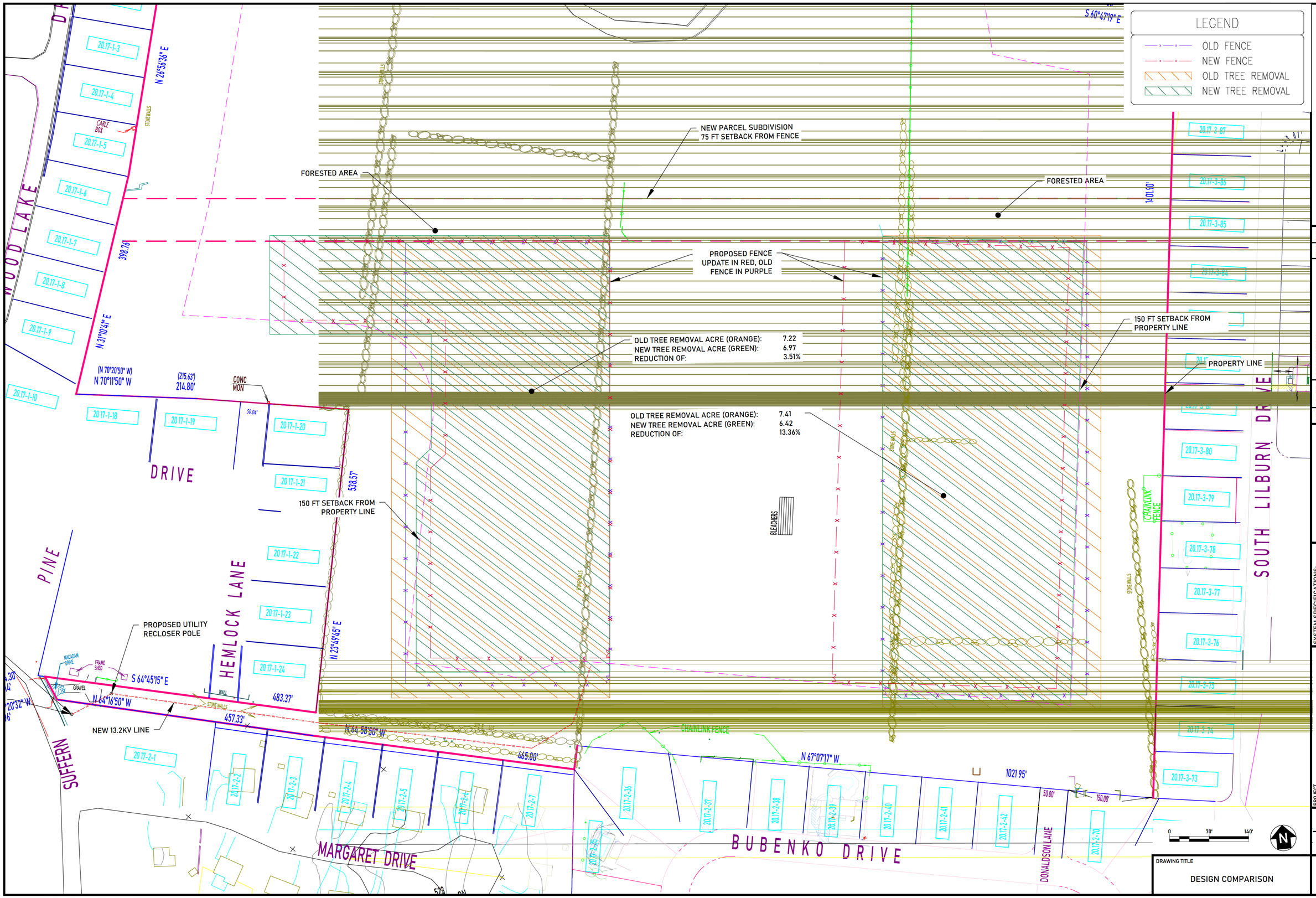

REV	DATE	DESCRIPTION	ENG	CHK
4	8/29/23	PERMIT DESIGN OPEN FIELD Q CELL	A.J.B.	
5	9/25/23	DESIGN OPEN FIELD Q CELL DCE	A.J.B.	
6	11/17/23	DESIGN OPEN FIELD Q CELL DCE	A.J.B.	
7	4/18/24	UPDATED COMMUNITY COMMENTS	A.J.B.	
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SYSTEM SPECIFICATIONS:
DC SYSTEM SIZE: 6.300 kW
AC SYSTEM SIZE: 5.000 kW
MODULE TYPE: XL-G125/BFG 675W
MODULE QUANTITY: 9,348
STRING QUANTITY: 423
ORIENTATION: PORTRAIT

PROJECT
MARIAN SHRINE
174 FILROSE LANE,
STONY POINT, NY 10980

PAGE SIZE
24" X 36"

SCALE
1" = 70'

DRAWING TITLE
DESIGN COMPARISON

DRAWING NUMBER
G103

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