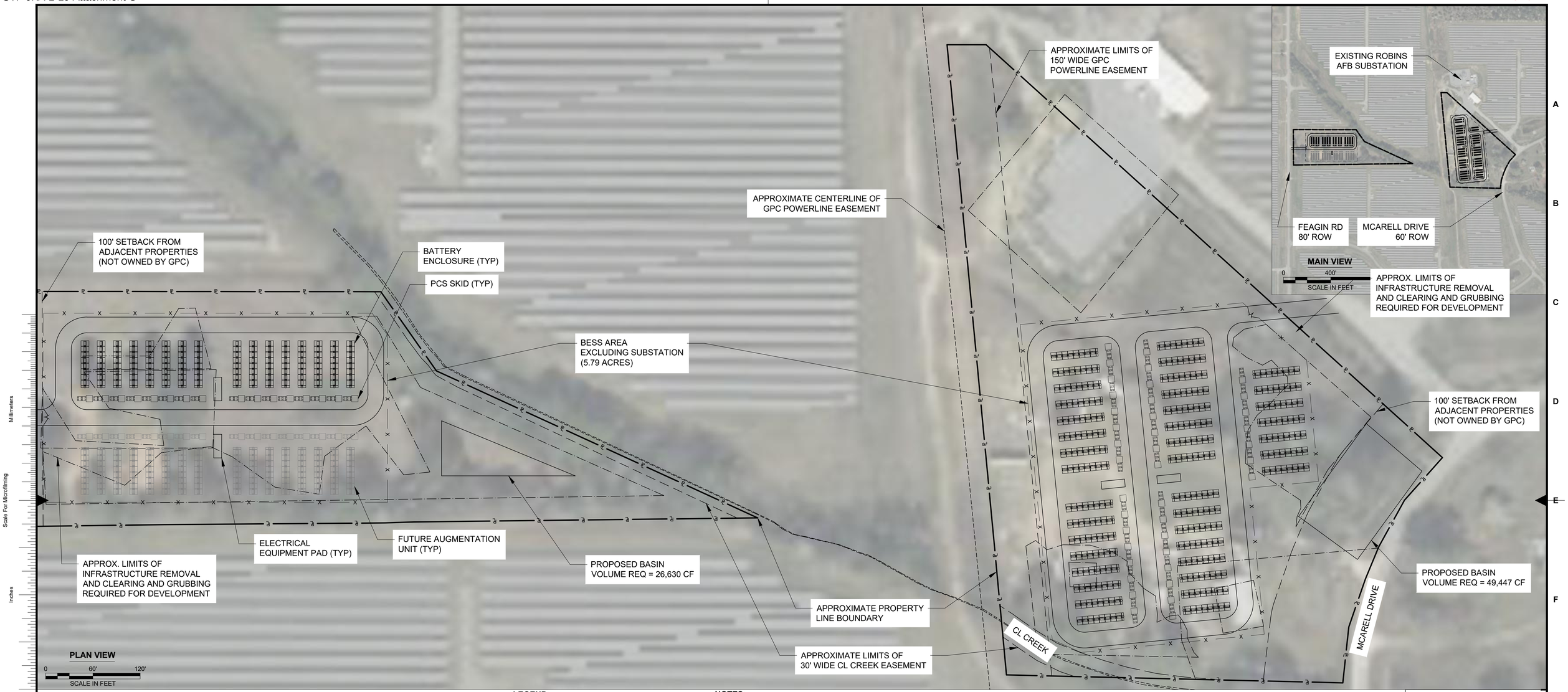


ENERGY STORAGE SYSTEM DESCRIPTION	
NAMEPLATE	128 MW / 512 MWh

MATERIAL LIST	
NUMBER OF REDACTED REDACTED ENCLOSURES @ BOL	REDACTED
NUMBER OF REDACTED REDACTED ENCLOSURES @ EOL	REDACTED
NUMBER OF REDACTED PCS SKIDS @ BOL	REDACTED
NUMBER OF REDACTED PCS SKIDS @ EOL	REDACTED

LEGEND:

- PROPERTY LINE
- FENCE
- APPROX. CONSTRAINT LIMITS
- APPROX CONSTRAINT LIMITS REMOVAL NEEDED FOR DEVELOPMENT
- CONSTRAINT CENTERLINES
- GATE

ABBREVIATION LIST:

BESS - BATTERY ENERGY STORAGE SYSTEM
BOL - BEGINNING OF LIFE
EOL - END OF LIFE
PCS - POWER CONVERSION SYSTEM
POI - POINT OF INTERCONNECTION
TYP - TYPICAL

NOTES:

1. FINAL LAYOUT SUBJECT TO CHANGE BASED ON FINAL ENVIRONMENTAL, CIVIL, GEOTECHNICAL, AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.
2. EQUIPMENT QUANTITIES, CONFIGURATION, AND FOOTPRINT SUBJECT TO CHANGE BASED ON FINAL BESS TECHNOLOGY SELECTION AND ADDITIONAL PROJECT DUE DILIGENCE.
3. CONSTRUCTION LAYDOWN, PARKING, TRAILERS, OPERATION AND MAINTENANCE BUILDINGS, ETC. NOT INCLUDED OR CONSIDERED IN DEVELOPMENT OF EQUIPMENT ARRANGEMENT SHOWN.
4. CIVIL GRADING AND STORMWATER NOT CONSIDERED IN LAYOUT DEVELOPMENT.
5. DESIGN MAINTAINS FACILITY NAMEPLATE RATING THROUGH YEAR 20 WITH AUGMENTATION EVENTS AT YEARS 4, 10, AND 15.
6. LANDSCAPING NOT INCLUDED IN LAYOUT DEVELOPMENT.
7. WATER SUPPLY, SUCH AS TANKS, FIRE WATER LOOP, AND/OR HYDRANTS NOT INCLUDED OR CONSIDERED IN LAYOUT DEVELOPMENT.
8. WETLANDS, FLOODPLAINS, AND OTHER ENVIRONMENTAL CONSTRAINTS CONSIDERED BUT SUBJECT TO CHANGE.
9. CURRENT BUILDABLE AREA DETERMINED BASED ON APPROXIMATED LIMITS OF KNOWN EXISTING CONSTRAINTS AND MAY NEED TO BE ADJUSTED PENDING FUTURE DILIGENCE AND RECEIPT OF GEOSPATIAL FILES.

NORTH

PRELIMINARY - NOT FOR CONSTRUCTION

no.	date	by	ckd	description
B	9/29/2023	MRA	JLT	ISSUED FOR REVIEW
A	8/21/2023	MRA	JLT	ISSUED FOR REVIEW

REDACTED REDACTED
REDACTED REDACTED
REDACTED
REDACTED REDACTED REDACTED
REDACTED

designed REDACTED
detailed REDACTED

Southern Company

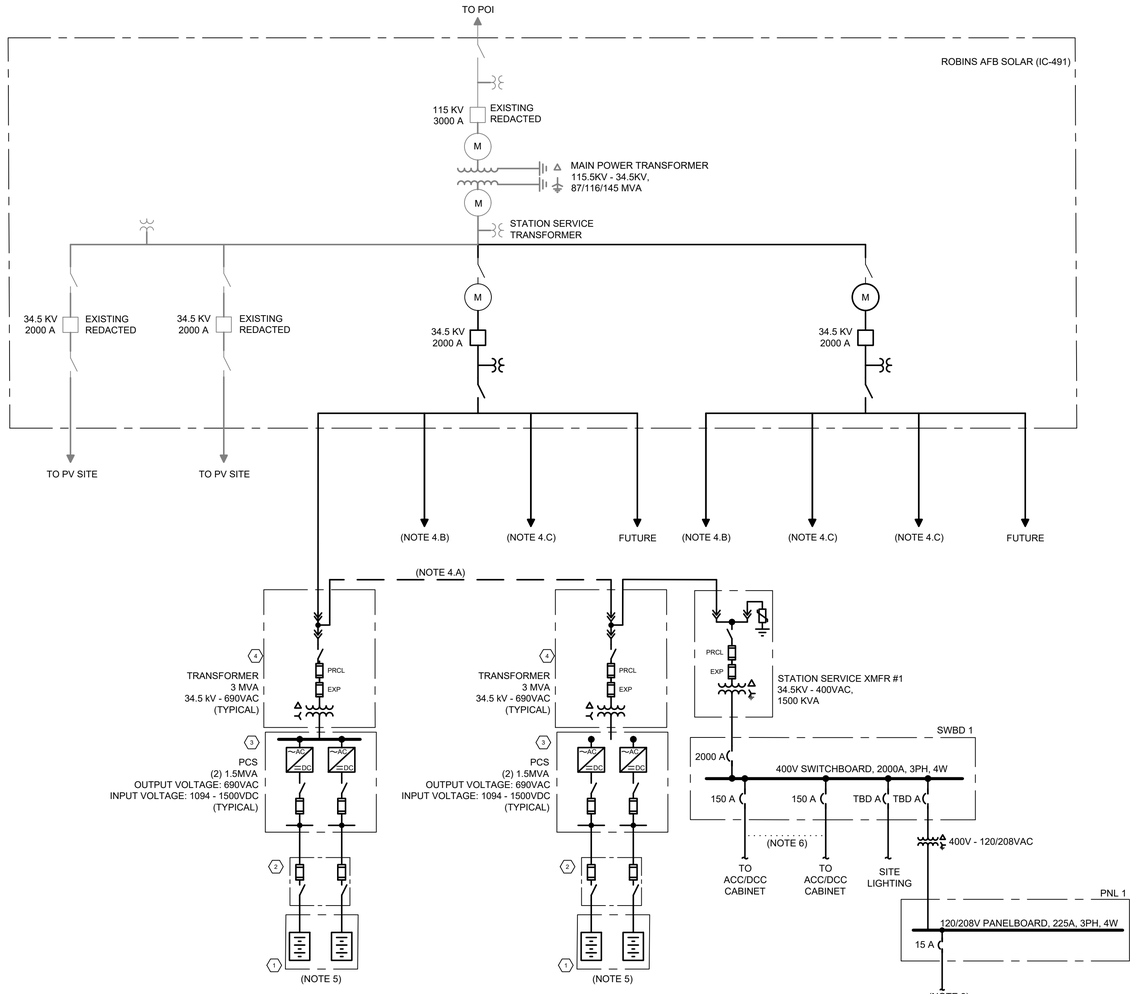
LOWNDES COUNTY, GEORGIA

SOUTHERN COMPANY ROBINS
BATTERY ENERGY STORAGE SYSTEM
SITE PLAN

project 160640
contract

drawing LAYOUT –
rev. B

sheet 1 of 1 sheets
file SoCo_Robins_Layout.dwg



Millimeters

Inches

Scale For Microfilming

SYSTEM DESCRIPTION

NAMEPLATE MW / MWH AT POI	128 MW/512 MWH

MATERIAL LIST

		QTY.
1	1.49 MWH REDACTED REDACTED BESS ENCLOSURE. INCLUDES THERMAL MANAGEMENT, FIRE PROTECTION, AND AUXILIARY POWER EQUIPMENT. EACH ENCLOSURE CONTAINS (4) RACKS WITH (8) MODULES PER RACK FOR A TOTAL OF (32) MODULES PER ENCLOSURE.	REDACTED
2	ACC/DCC CABINET. CONTAINS (2) DC COMBINER SECTIONS AND (1) AUXILIARY CONTROL SECTION.	REDACTED
3	REDACTED PCS SKIDS: REDACTED 3L.2, (2) 1.5MVA INVERTERS PER SKID.	REDACTED
4	34.5kV/690V 3MVA MEDIUM VOLTAGE TRANSFORMER.	REDACTED

NOTES:

1. THIS DRAWING REPRESENTS ONE PROPOSED ARRANGEMENT AND IS SUBJECT TO CHANGE BASED ON DETAILED DESIGN.
2. THIS DRAWING IS CONCEPTUAL IN NATURE AND IS FOR PLANNING PURPOSES ONLY.
3. POWER EXPORT AT INVERTERS WILL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM TO MEET REAL AND REACTIVE POWER REQUIREMENTS AT POI.
4. A. STRING OF (9) PCS SKIDS AND (1) STATION SERVICE TRANSFORMER.
   B. STRING OF (8) PCS SKIDS AND (1) STATION SERVICE TRANSFORMER.
   C. STRING OF (10) PCS SKIDS.
5. EACH DC BLOCK CONTAINS ONE SET OF REDACTED REDACTED ENCLOSURES WITH (1) ACC/DCC CABINET AT BEGINNING OF LIFE (BOL) WHICH INTERCONNECT THROUGH MANUFACTURER PROVIDED BUS.
6. STATION SERVICE TRANSFORMERS PROVIDE TYPICAL POWER TO ACC/DCC CABINETS (56 FEED TOTAL).
7. SIZING OF REDACTED REDACTED ENCLOSURES BASED ON 5 YEAR OVERBUILD.
8. PANELBOARDS PROVIDE TYPICAL POWER TO PCS SKIDS (56 FEEDS TOTAL).

LEGEND:

- SURGE ARRESTOR
- FUSE
- MV BREAKER
- DISCONNECT SWITCH
- POWER CABLE
- CIRCUIT BREAKER
- COMMS CABLE
- POWER TRANSFORMER
- INVERTER
- LI-ION BESS ENCLOSURE
- EXISTING EQUIPMENT
- METER
- POTENTIAL TRANSFORMER

ABBREVIATIONS:

BESS	-	BATTERY ENERGY STORAGE SYSTEM
BOL	-	BEGINNING OF LIFE
EOL	-	END OF LIFE
POI	-	POINT OF INTERCONNECTION
PCS	-	POWER CONVERSION SYSTEM
EXP	-	EXPULSION (FUSE)
PRCL	-	PARTIAL RANGE CURRENT-LIMITING (FUSE)

PRELIMINARY - NOT FOR CONSTRUCTION

no.	date	by	ckd	description
C	10/06/2023	MRA	JLT	ISSUED FOR REVIEW
B	09/29/2023	MRA	JLT	ISSUED FOR REVIEW
A	8/21/2023	MRA	JLT	ISSUED FOR REVIEW

[redacted]

REDACTED REDACTED
REDACTED REDACTED
REDACTED
REDACTED REDACTED REDACTED
REDACTED

designed: REDACTED
detailed: REDACTED

Southern Company
LOWNDES COUNTY, GEORGIA

ROBINS BESS
128 MW / 512 MWH
ONELINE DIAGRAM

project: 160640
contract:
drawing: ONELINE –
rev.: C
sheet 1 of 1 sheets
file SoCo_Robins_Oneline.dwg

TRADE SECRET



Millimeters

Scale For Microfilming

Inches

ENERGY STORAGE SYSTEM DESCRIPTION

NAMEPLATE	49.5 MW / 198 MWh

MAJOR EQUIPMENT LIST

NUMBER OF REDACTED REDACTED ENCLOSURES @ BOL	REDACTED
NUMBER OF REDACTED REDACTED ENCLOSURES @ EOL	REDACTED
NUMBER OF REDACTED PCS SKIDS @ BOL	REDACTED
NUMBER OF REDACTED PCS SKIDS @ EOL	REDACTED

LEGEND:

- PROPERTY LINE
- FENCE
- APPROX. CONSTRAINT LIMITS
- ELECTRIC INFRASTRUCTURE CENTERLINE
- GATE

ABBREVIATION LIST:

BESS - BATTERY ENERGY STORAGE SYSTEM
BOL - BEGINNING OF LIFE
EOL - END OF LIFE
PCS - POWER CONVERSION SYSTEM
TYP - TYPICAL

NOTES:

1. FINAL LAYOUT SUBJECT TO CHANGE BASED ON FINAL ENVIRONMENTAL, CIVIL, GEOTECHNICAL, AND AUTHORITY HAVING JURISDICTION REQUIREMENTS.
2. EQUIPMENT QUANTITIES, CONFIGURATION, AND FOOTPRINT SUBJECT TO CHANGE BASED ON FINAL BESS TECHNOLOGY SELECTION AND ADDITIONAL PROJECT DUE DILIGENCE.
3. CONSTRUCTION LAYDOWN, PARKING, TRAILERS, OPERATION AND MAINTENANCE BUILDINGS, ETC. NOT INCLUDED OR CONSIDERED IN DEVELOPMENT OF EQUIPMENT ARRANGEMENT SHOWN.
4. CIVIL GRADING AND STORMWATER NOT CONSIDERED IN LAYOUT DEVELOPMENT.
5. DESIGN MAINTAINS FACILITY NAMEPLATE RATING THROUGH YEAR 20 WITH AUGMENTATION EVENTS AT YEARS 5, 11, AND 16.
6. LANDSCAPING NOT INCLUDED IN LAYOUT DEVELOPMENT.
7. WATER SUPPLY, SUCH AS TANKS, FIRE WATER LOOP, AND/OR HYDRANTS NOT INCLUDED OR CONSIDERED IN LAYOUT DEVELOPMENT.
8. WETLANDS, FLOODPLAINS, AND OTHER ENVIRONMENTAL CONSTRAINTS CONSIDERED BUT SUBJECT TO CHANGE.
9. CURRENT BUILDABLE AREA DETERMINED BASED ON APPROXIMATED LIMITS OF KNOWN EXISTING CONSTRAINTS AND MAY NEED TO BE ADJUSTED PENDING FUTURE DILIGENCE AND RECEIPT OF GEOSPATIAL FILES.

PRELIMINARY - NOT FOR CONSTRUCTION

no.	date	by	ckd	description
B	9/29/2023	MRA	JLT	ISSUED FOR REVIEW
A	8/24/2023	MRA	JLT	ISSUED FOR REVIEW

REDACTED REDACTED
REDACTED REDACTED
REDACTED
REDACTED REDACTED REDACTED
REDACTED REDACTED

designed REDACTED | detailed REDACTED

Southern Company
LOWNDES COUNTY, GEORGIA

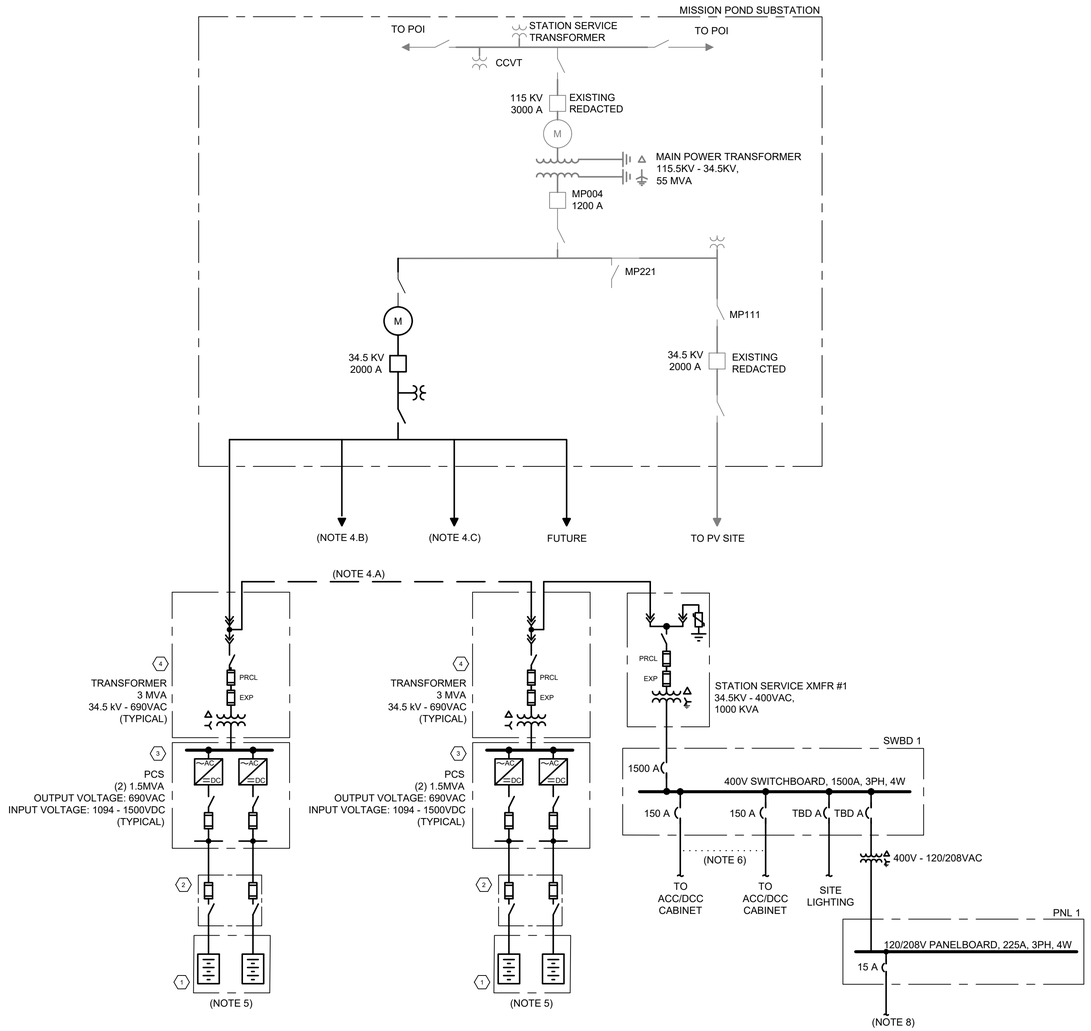
SOUTHERN COMPANY MOODY
BATTERY ENERGY STORAGE SYSTEM
SITE PLAN

project 160640 | contract

drawing LAYOUT – | rev. B

sheet 1 of 1 sheets

file SouthernCo_Moody_Layout.dwg



Scale For Microfilming

Millimeters

Inches

SYSTEM DESCRIPTION

NAMEPLATE MW / MWH AT POI	49.5 MW / 198 MWH

MATERIAL LIST

		QTY.
1	1.49 MWH REDACTED REDACTED QUANTUM BESS ENCLOSURE. INCLUDES THERMAL MANAGEMENT, FIRE PROTECTION, AND AUXILIARY POWER EQUIPMENT. EACH ENCLOSURE CONTAINS (4) RACKS WITH (8) MODULES PER RACK FOR A TOTAL OF (32) MODULES PER ENCLOSURE.	REDACTED
2	ACC/DCC CABINET. CONTAINS (2) DC COMBINER SECTIONS AND (1) AUXILIARY CONTROL SECTION.	REDACTED
3	REDACTED PCS SKIDS: REDACTED 3L.2, (2) 1.5MVA INVERTERS PER SKID.	REDACTED
4	34.5kV/690V 3MVA MEDIUM VOLTAGE TRANSFORMER.	REDACTED

NOTES:

1. THIS DRAWING REPRESENTS ONE PROPOSED ARRANGEMENT AND IS SUBJECT TO CHANGE BASED ON DETAILED DESIGN.
2. THIS DRAWING IS CONCEPTUAL IN NATURE AND IS FOR PLANNING PURPOSES ONLY.
3. POWER EXPORT AT INVERTERS WILL BE CONTROLLED BY ENERGY MANAGEMENT SYSTEM TO MEET REAL AND REACTIVE POWER REQUIREMENTS AT POI.
4. A. STRING OF (6) PCS SKIDS AND (1) STATION SERVICE TRANSFORMER.
   B. STRING OF (8) PCS SKIDS AND (1) STATION SERVICE TRANSFORMER.
   C. STRING OF (8) PCS SKIDS.
5. EACH DC BLOCK CONTAINS ONE SET OF REDACTED REDACTED ENCLOSURES WITH (1) ACC/DCC CABINET AT BEGINNING OF LIFE (BOL) WHICH INTERCONNECT THROUGH MANUFACTURER PROVIDED BUS.
6. STATION SERVICE TRANSFORMERS PROVIDE TYPICAL POWER TO ACC/DCC CABINETS (22 FEED TOTAL).
7. SIZING OF REDACTED REDACTED ENCLOSURES BASED ON 5 YEAR OVERBUILD.
8. PANELBOARDS PROVIDE TYPICAL POWER TO PCS SKIDS (22 FEEDS TOTAL).

LEGEND:

- SURGE ARRESTOR
- FUSE
- MV BREAKER
- DISCONNECT SWITCH
- POWER CABLE
- CIRCUIT BREAKER
- POWER TRANSFORMER
- INVERTER
- LI-ION BESS ENCLOSURE
- EXISTING EQUIPMENT
- METERING
- POTENTIAL TRANSFORMER

ABBREVIATIONS:

BESS - BATTERY ENERGY STORAGE SYSTEM
BOL - BEGINNING OF LIFE
EOL - END OF LIFE
POI - POINT OF INTERCONNECTION
PCS - POWER CONVERSION SYSTEM
EXP - EXPULSION (FUSE)
PRCL - PARTIAL RANGE CURRENT-LIMITING (FUSE)

PRELIMINARY - NOT FOR CONSTRUCTION

no.	date	by	ckd	description
C	10/06/2023	MRA	JLT	ISSUED FOR REVIEW
B	09/29/2023	MRA	JLT	ISSUED FOR REVIEW
A	8/24/2023	MRA	JLT	ISSUED FOR REVIEW

[redacted]

REDACTED REDACTED
REDACTED REDACTED
REDACTED
REDACTED REDACTED REDACTED
REDACTED

designed: REDACTED
detailed: REDACTED

Southern Company
LOWNDES COUNTY, GEORGIA

MOODY BESS
49.5 MW / 198 MWH
ONELINE DIAGRAM

project: 160640
contract:
drawing: ONELINE –
rev.: C
sheet 1 of 1 sheets
file SoCo_Moody_Oneline.dwg