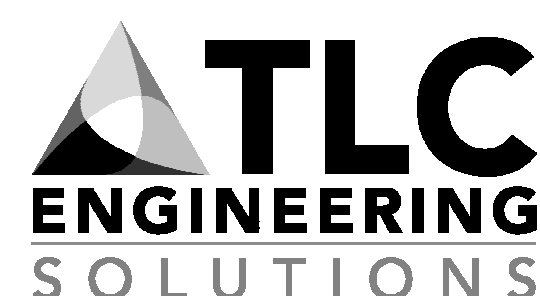


ELECTRICAL MODIFICATIONS

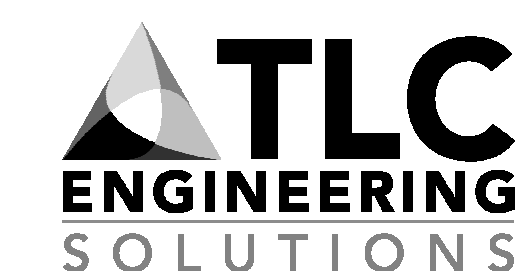
for

LEE COUNTY GOVERNMENT

LEE COUNTY (BILLY CREEK) DOT 5642 ENTERPRISE PARKWAY FORT MYERS, FLORIDA



TLC Engineering Solutions



13099 S. Cleveland Ave., Ste. 500
Fort Myers, Florida 33907-3869
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COA 15

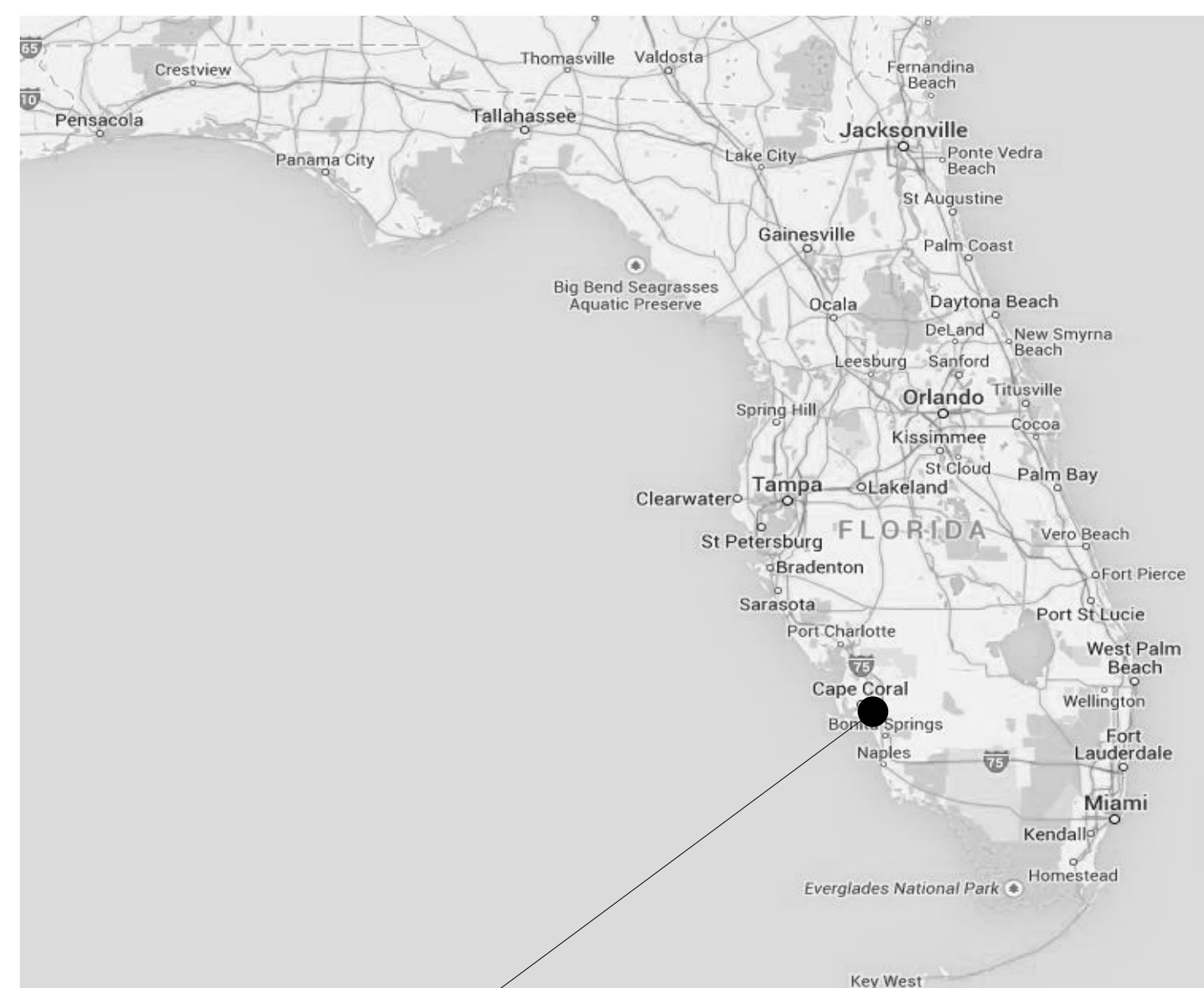
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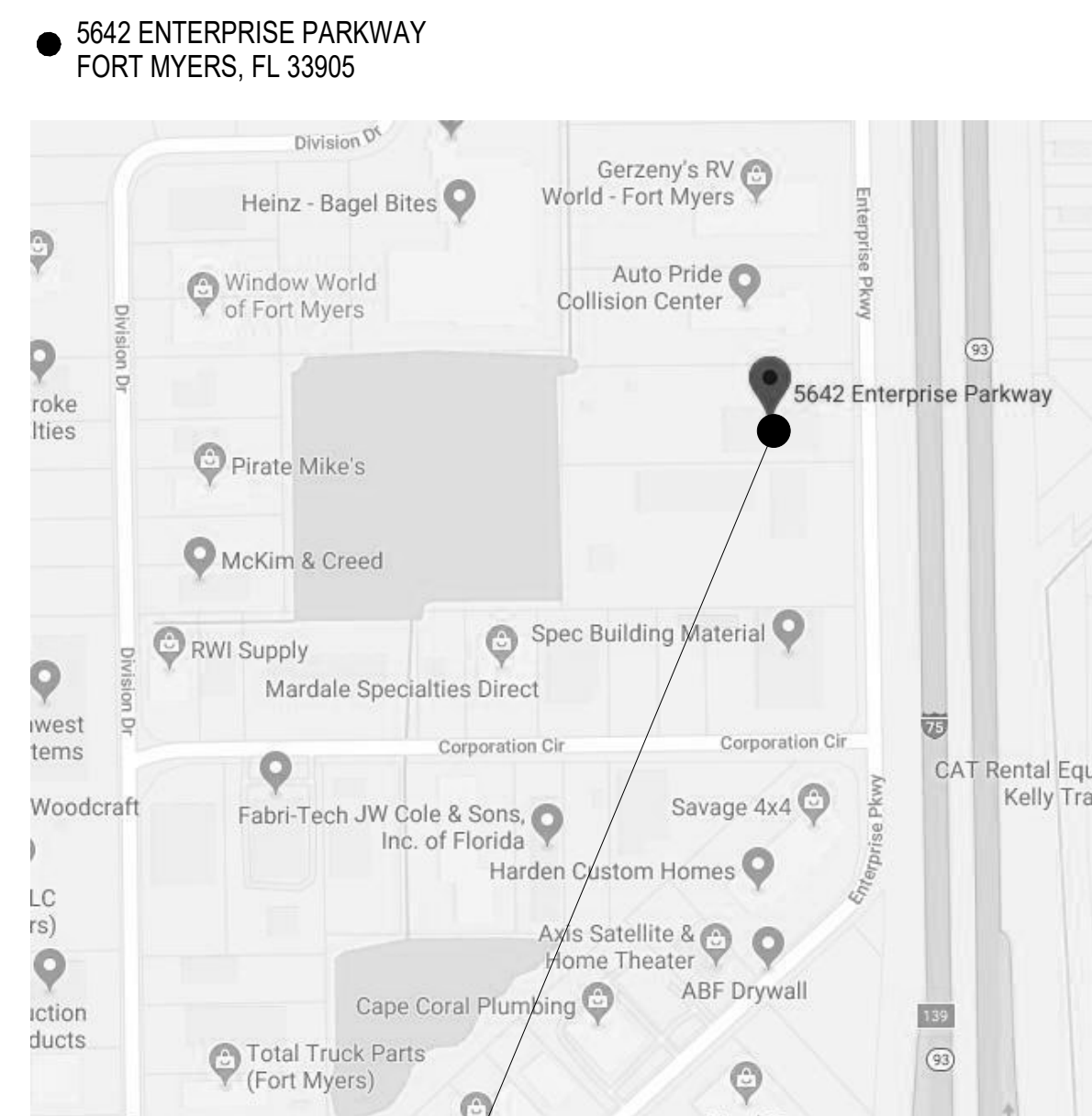
BILLY CREEK D.O.T.
ELECTRICAL
MODIFICATIONS

5642 Enterprise Parkway
Fort Myers, FL



LOCATION OF PROJECT

**PROJECT LOCATION
MAP**



BILLY CREEK DOT

PROJECT VICINITY MAP

Revisions:

No.	Date	Description

Project No.: 719025

Issue Date: 06/04/2024

Drawn By: MJB

Approved By: MJB

Scale: 12" = 1'-0"

Drawing Title:

COVER SHEET

Drawing No.:

C001

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MIKE J. BARRILE, PE (239) 985-2012

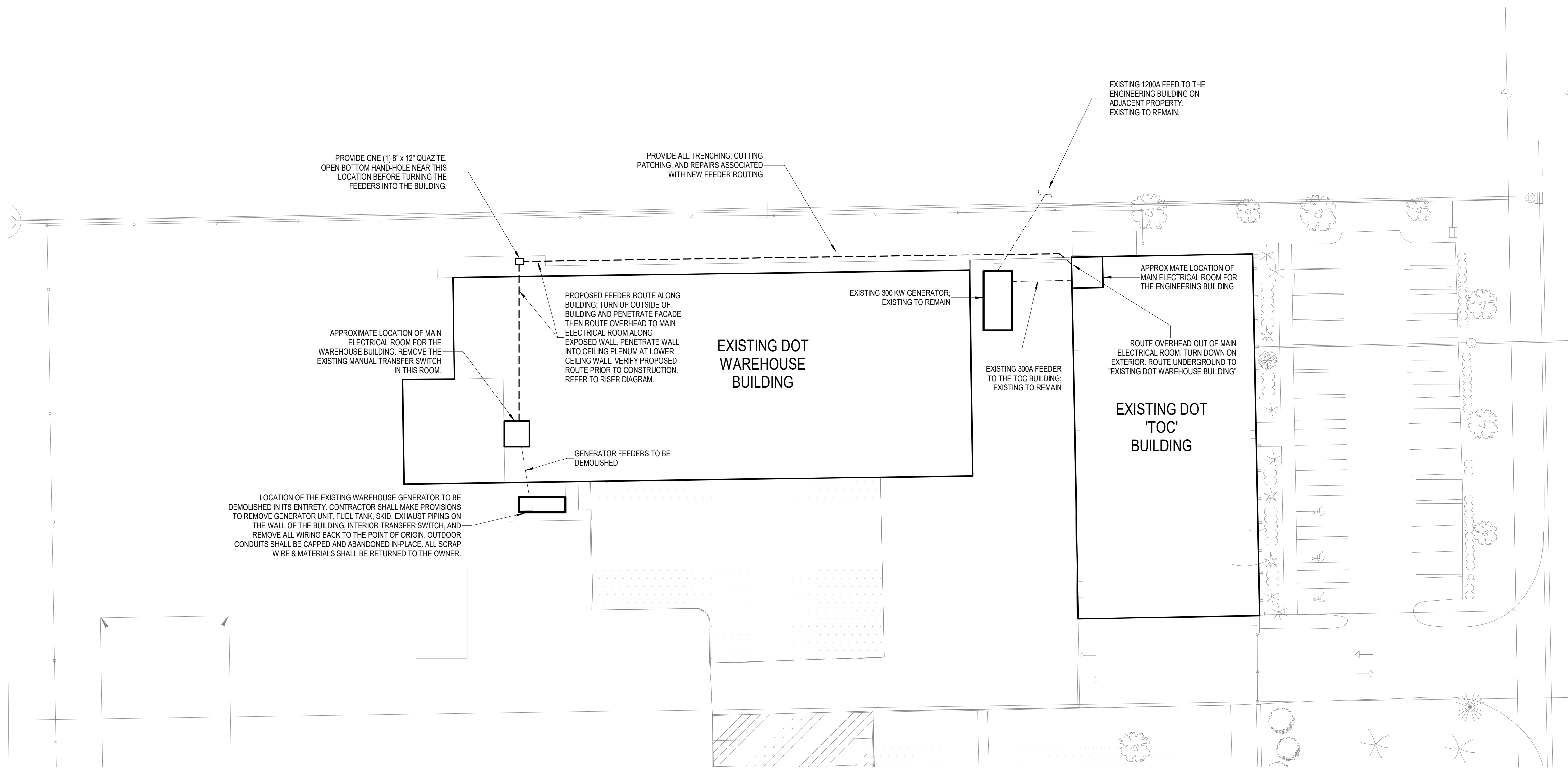
Client:

**BILLY CREEK D.O.T.
ELECTRICAL
MODIFICATIONS**

5642 Enterprise Parkway
Fort Myers, FL

SCOPE OF WORK

THE EXISTING, ANTIQUATED GENERATOR DIRECTLY ADJACENT TO THE WAREHOUSE BUILDING SHALL BE DEMOLISHED IN ITS ENTIRETY. THE WAREHOUSE BUILDING SHALL THEN BE ELECTRICALLY CONNECTED TO THE 'TOC' BUILDING VIA NEW CIRCUIT BREAKER AND FEEDER FROM THE MAIN ELECTRICAL ROOM. REFER TO THE RISER DIAGRAM SHEET FOR ADDITIONAL INFORMATION.



Revisions:

No.	Date	Description

1 ELECTRICAL SITE PLAN
N.T.S.

Project No.: 719025

Issue Date: 06/04/2024

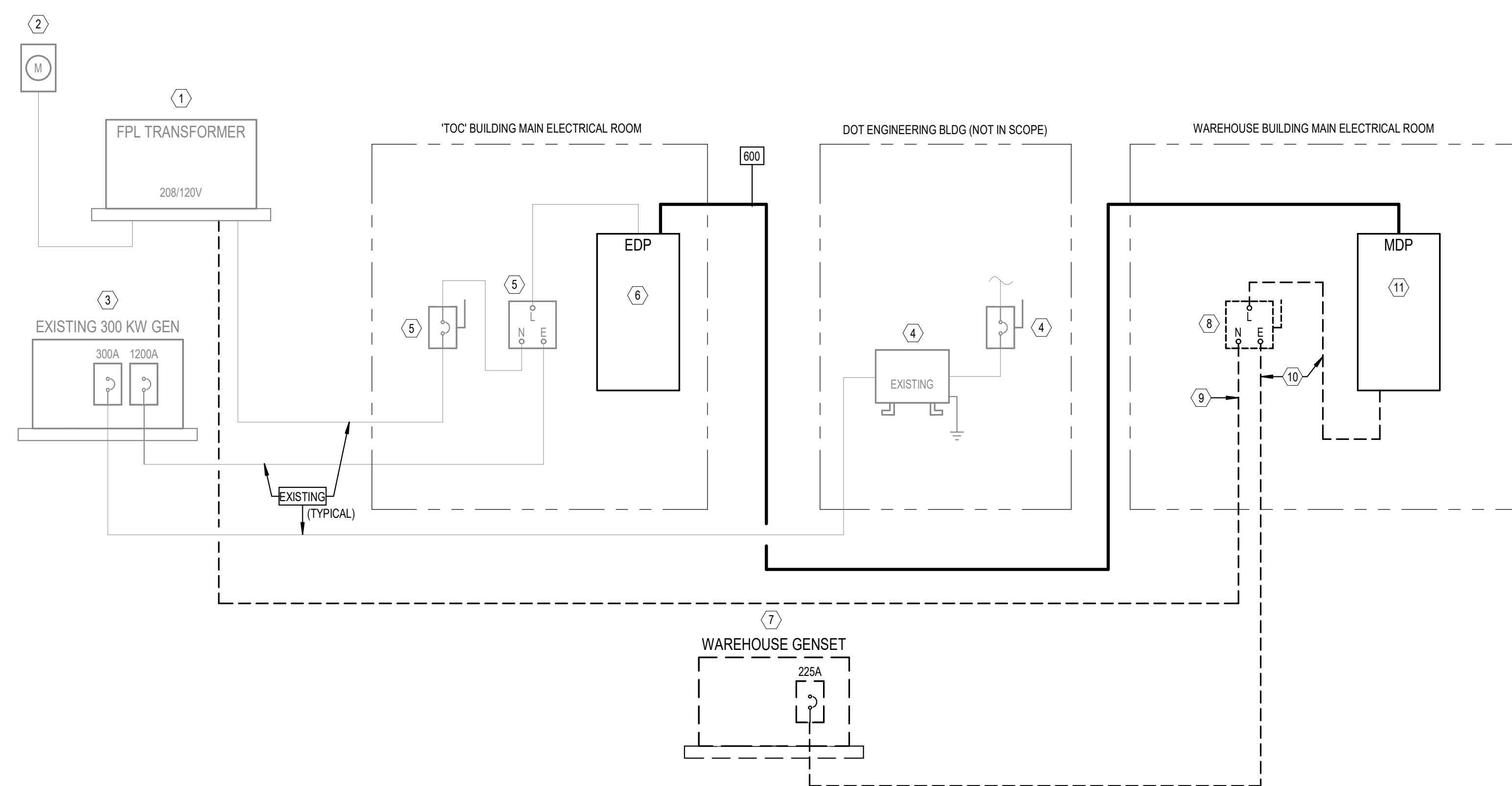
Drawn By: MJB

Approved By: MJB

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

Drawing Title:
ELECTRICAL SITE PLAN

Drawing No.:
E002



1 RISER DIAGRAM
N.T.S.

ELECTRICAL RISER KEY NOTES

#	KEYED NOTE TEXT
1	EXISTING 208/120V FPL PAD-MOUNTED TRANSFORMER TO REMAIN AS IS. ELECTRICAL CONTRACTOR SHALL COORDINATE OUTAGE PERIOD WITH THE FPL PROJECT MANAGER AND THE OWNER FOR REMOVAL OF SERVICE ENTRANCE SECONDARY CONDUCTORS PREVIOUSLY SERVING THE WAREHOUSE BUILDING. ALL REMOVED SCRAP WIRE SHALL BE RETURNED TO THE OWNER.
2	COMMON UTILITY METER TO REMAIN AS IS, SERVING THE WAREHOUSE BUILDING SERVICE (DEMOLISHED) AND THE TOC BUILDING SERVICE (TO REMAIN AS IS).
3	EXISTING 300 KW GENERATOR TO REMAIN AS IS. SHOWN FOR REFERENCE ONLY.
4	EXISTING ENGINEERING BUILDING ELECTRICAL EQUIPMENT TO REMAIN AS IS. SHOWN FOR REFERENCE ONLY.
5	EXISTING TOC BUILDING ELECTRICAL EQUIPMENT TO REMAIN AS IS. SHOWN FOR REFERENCE ONLY.
6	208/120V DISTRIBUTION PANEL "EDP": RECONFIGURE THIS BOARD TO ACCEPT AN ADDITIONAL 800A, 3-POLE CIRCUIT BREAKER OF MATCHING MANUFACTURER AND INTERRUPTING CAPACITY TO SERVE THE WAREHOUSE BUILDING AS A NEW LOAD.
7	THE EXISTING WAREHOUSE GENERATOR SHALL BE DEMOLISHED IN ITS ENTIRETY. CONTRACTOR SHALL MAKE PROVISIONS TO REMOVE GENERATOR UNIT, FUEL TANK, SKID, EXHAUST PIPING ON THE WALL OF THE BUILDING, INTERIOR TRANSFER SWITCH, AND REMOVE ALL WIRING BACK TO THE POINT OF ORIGIN. OUTDOOR CONDUITS SHALL BE CAPPED AND ABANDONED IN-PLACE. ALL SCRAP WIRE & MATERIALS SHALL BE RETURNED TO THE OWNER.
8	EXISTING MANUAL TRANSFER SWITCH SHALL BE DEMOLISHED IN ITS ENTIRETY.
9	EXISTING UTILITY TRANSFORMER SERVICE ENTRANCE CONDUCTORS SERVING THE WAREHOUSE BUILDING SHALL BE REMOVED. CAP OFF AND ABANDON THE CONDUIT STUB-OUT. COORDINATE THE OUTAGE AS REQUIRED WITH THE FPL PROJECT MANAGER.
10	EXISTING FEEDERS SERVING PANEL MDP IN THE WAREHOUSE BUILDING SHALL BE DEMOLISHED.
11	208/120V DISTRIBUTION PANEL "MDP": PANEL SHALL BE RE-FED DIRECTLY FROM PANEL "EDP" IN THE "TOC" BUILDING. COORDINATE OUTAGE WITH THE OWNER AND LAND THE NEW FEEDERS ON THE EXISTING LUGS LEADING INTO THE EXISTING MAIN CIRCUIT BREAKER.

COPPER CONDUCTOR/FEEDER SCHEDULE

SYMBOL	NUMBER OF SETS	PHASE CONDUCTORS (QUANTITY) SIZE - AWG	NEUTRAL CONDUCTORS (QUANTITY) SIZE - AWG	GROUNDING CONDUCTORS (QUANTITY) SIZE - AWG	CONDUIT SIZE (QUANTITY) SIZE	REMARKS
EXISTING	---	(3) #350 KCMIL	(1) #350 KCMIL	(1) #1	(1) 3" FOR EACH RUN	EXISTING CONDUCTORS AND FEEDERS SHALL REMAIN AS THEY ARE. SHOWN FOR REFERENCE ONLY. NO CHANGES (TYPICAL ALL THIN GREYSCALE LINES).

LOAD CALCULATION - WAREHOUSE / TOC BLDG

THE TWO-YEAR MAX DEMAND LOAD SHOWN BY FPL FOR THIS ADDRESS, WHICH ENCOMPASSES BOTH THE "TOC" BUILDING AND THE WAREHOUSE BUILDING IS 166 KW.

THE EXISTING SERVICE ENTRANCE / MAIN CIRCUIT BREAKER AT THE "TOC" BUILDING IS 1200A RATED. THE MAIN CIRCUIT BREAKER AT THE WAREHOUSE BUILDING IS 800A RATED.

THE SERVICE IS 38.4% LOADED AT THIS PEAK DEMAND LOAD.

GENERAL NOTES

- PROVIDE (1) NEW 600A CIRCUIT BREAKER IN EXISTING PANEL "EDP" TO SERVE EXISTING PANEL "MDP".
- RELOCATE EXISTING CIRCUIT BREAKERS IN PANEL "EDP" SUCH THAT THE LEFT BUS CAN ACCEPT A NEW 800A FRAME. PROPOSED LAYOUT IN PANELBOARD ELEVATION MUST BE FIELD VERIFIED BY CONTRACTOR FOR FEASIBILITY PRIOR TO DEMOLITION AND CONSTRUCTION.

Revisions:

No.	Date	Description

Project No.: 719025

Issue Date: 06/04/2024

Drawn By: MJB

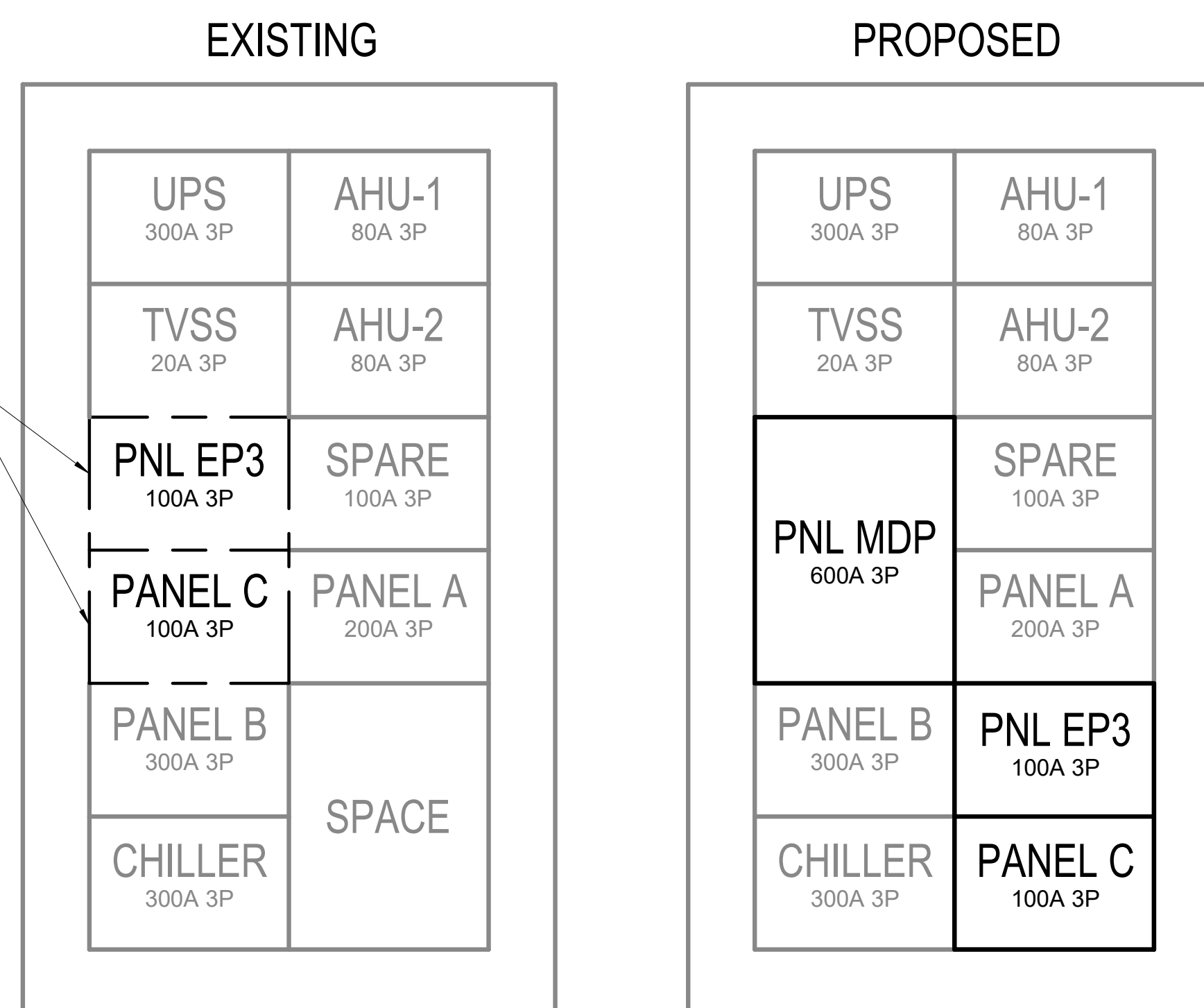
Approved By: MJB

Scale: 12" = 1'-0"

Drawing Title:

ELECTRICAL RISER DIGRAM AND NOTES

Drawing No.: E003



2 ELEVATION - PANEL "EDP"
N.T.S.