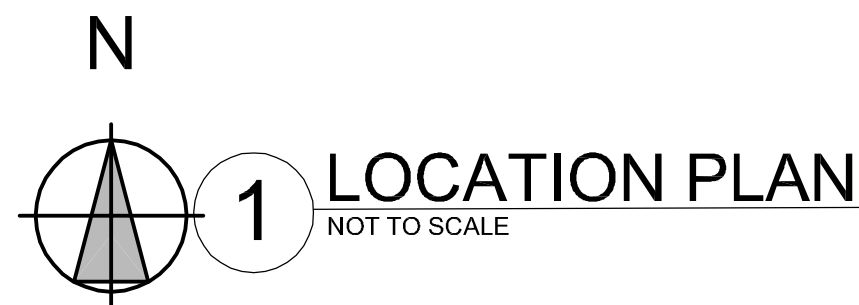
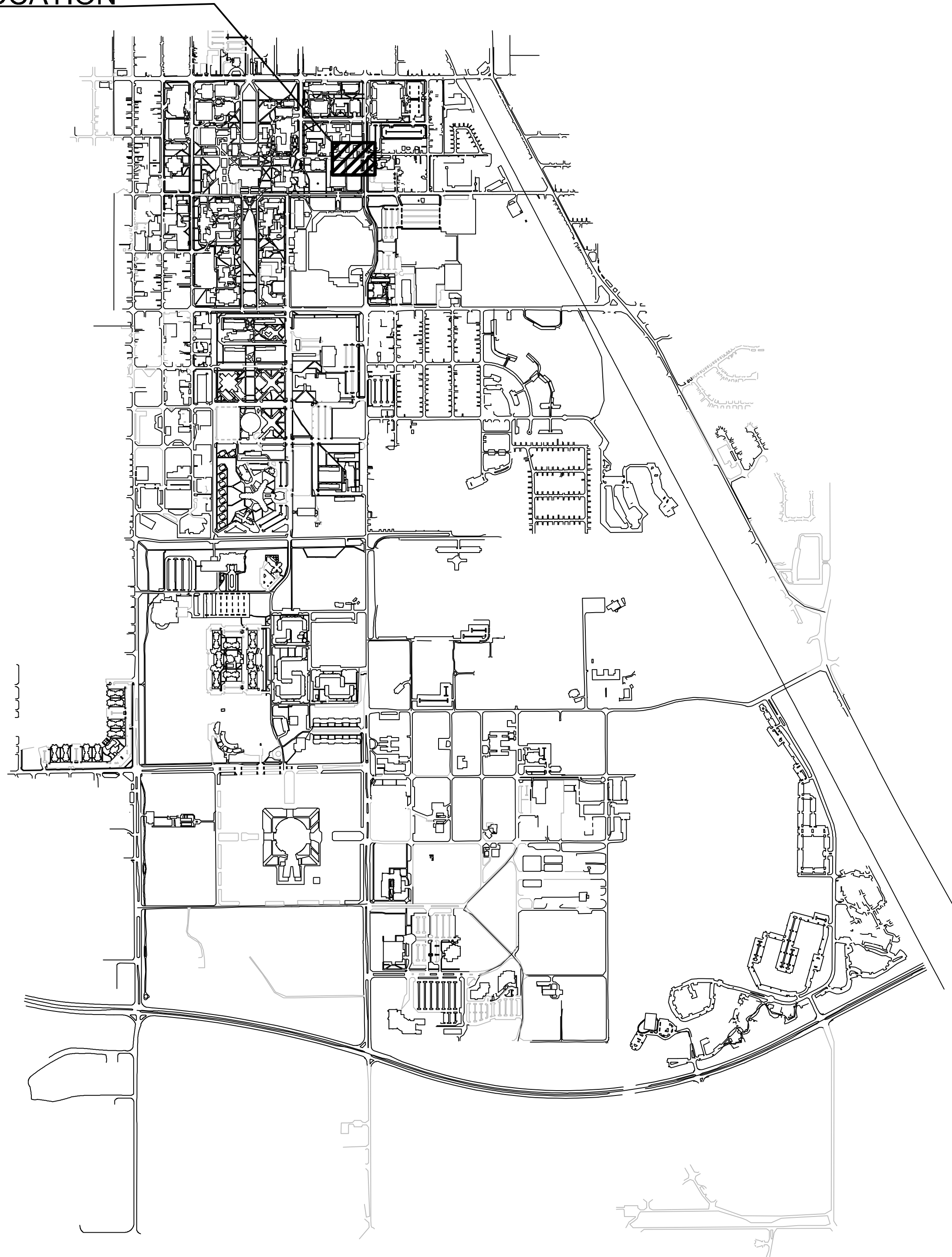


THE UNIVERSITY OF OKLAHOMA
PARKING LOT LIGHTING TRANSFORMER 2400V- 12.5KV
PRIMARY ELECTRICAL DISTRIBUTION SYSTEM CONVERSION

PROJECT LOCATION



SHEET INDEX

- G001 TITLE SHEET
- E201 SITE PLAN
- E601 PED SINGLE LINE DIAGRAMS
- E701 ELECTRICAL SPECIFICATIONS

CONSTRUCTION DRAWINGS
10/24/2022

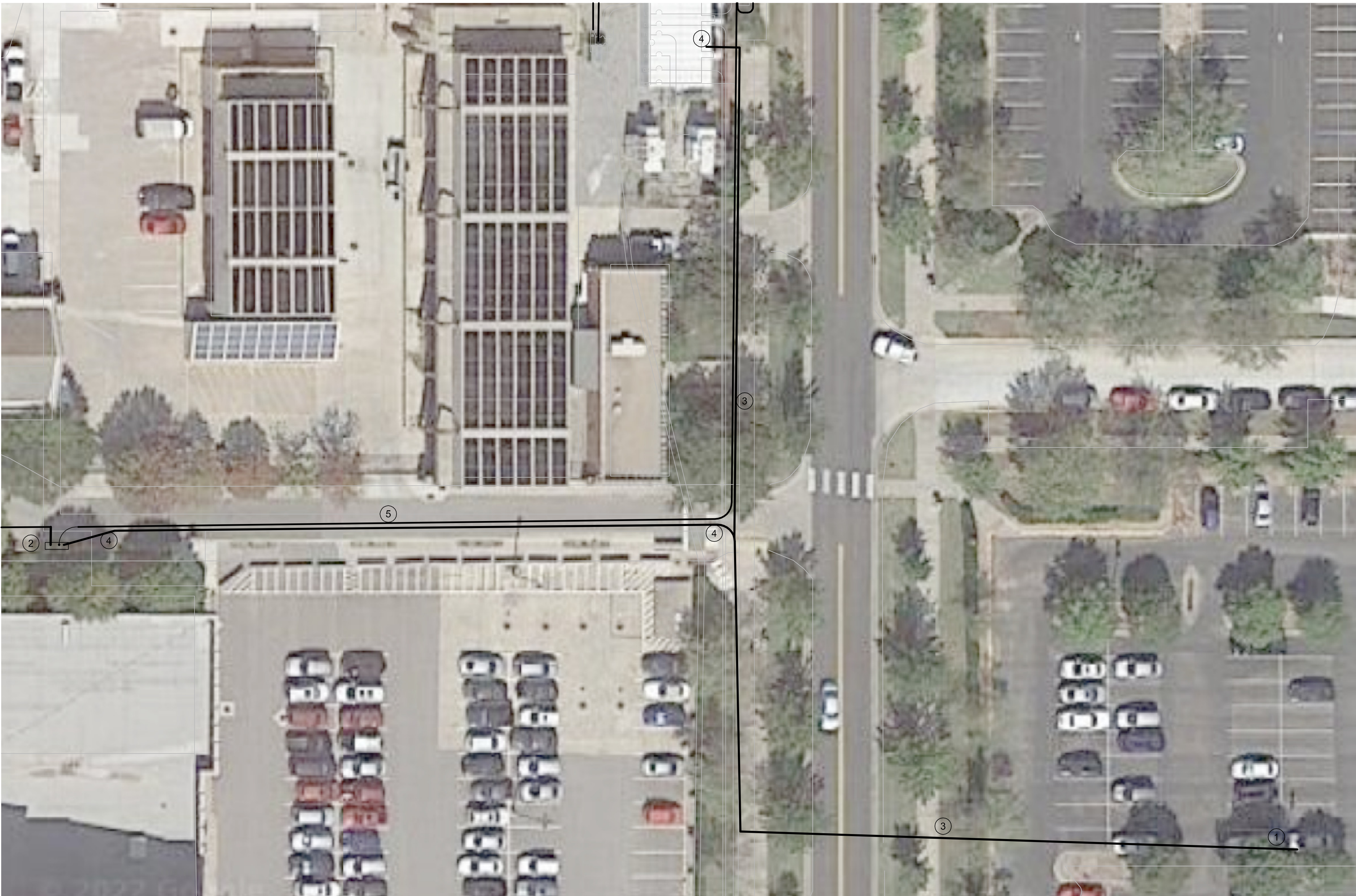


OKLAHOMA ONE CALL SYSTEM
UTILITY LOCATION NUMBER-
CALL
811
or
(800) 522-6543
PRIOR TO ANY EXCAVATION.



**Gwin Engineering
Consultants, LLC**
342592 E 880 Road, Chandler, OK 74834
Phone: (405) 850-0205
Email: ogwin@gwin-engineering.com
Oklahoma CA # 7649; Expires 6/30/2024

DRAWING TITLE	TITLE SHEET
DATE	09/20/2022
PROJECT NUMBER	222803
DRAWING NUMBER	G001



N
1
SCALE: 1" = 20'
"RHYNE HALL" PARKING LOT PRIMARY SITE PLAN

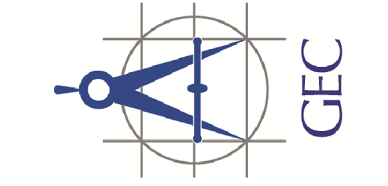
DRAWING GENERAL NOTES

- A. ALL MV CABLE AND TRANSFORMERS WILL BE SUPPLIED BY OUFM UTILITIES. CONTRACTOR WILL INSTALL MV CABLES AND TRANSFORMER, AND WILL SUPPLY AND INSTALL ALL OTHER MATERIALS.
- B. UNLESS NOTED OTHERWISE, RETURN ANY SALVAGED EQUIPMENT TO OUFM UTILITIES.
- C. THE DESCRIPTION OF THE WORK TO BE PERFORMED MAY NOT BE IN THE OPTIMUM ORDER TO MINIMIZE ANY BUILDING OUTAGES. ADJUST THE SEQUENCE OF ACTIVITIES TO ACHIEVE THIS BASED ON FOUND CONDITIONS.
- D. THE CONTRACTOR SHALL MAKE GOOD ANY LANDSCAPE, SIDEWALK, SOLID SLAB SOD ON ALL DISTURBED AREAS, ETC. DISTURBED DURING THE WORK.
- E. ANY EARTH DISTURBED AROUND EXISTING EQUIPMENT PADS MUST BE RECOMPACTED TO 90%THEORETICAL MAXIMUM DENSITY.
- F. ALL WORK PERFORMED AND MATERIALS SUPPLIED SHALL CONFORM TO THE PLANS AND/OR PROJECT SPECIFICATIONS.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES AND GOVERNMENTAL AGENCIES WHO MIGHT HAVE UTILITY LINES ON OR ABOUT THE PREMISES, OR WHO MIGHT BE AFFECTED BY THE CONSTRUCTION. THE CONTRACTOR SHALL ALSO COORDINATE THEIR ACTIVITIES WITH THE UTILITY COMPANIES TO ENSURE COMPLIANCE WITH THE PROJECT SCHEDULE. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EXISTING UTILITY LINES, AND SHALL REPAIR ANY DAMAGES AT THEIR OWN EXPENSE.
- I. MEDIUM VOLTAGE TERMINATIONS AND SPLICES ARE TO BE "ELASTOMOLD" BRAND.
- J. CONNECT ALL CONCENTRIC NEUTRALS TO EACH OTHER AND GROUND/GROUNDING LUG OR BAR AT EACH TRANSFORMER AND SECTOR CAN.

KEYED NOTES

1. EXISTING PARKING LOT TRANSFORMER, 2400V-120/240V. REPLACE WITH 7200V-120/240V UNIT, CONNECTING TO ONLY ONE PHASE OF THE EXISTING PRIMARY FEEDER AND RECONNECTING THE EXISTING SECONDARY AND GROUNDING WIRING.
2. NEW 4 POINT SECTOR CAN OVER TUNNEL EXTENSION, INSTALLED UNDER TELECOM PROJECT.
3. EXISTING PRIMARY FEEDER TO TRANSFORMER, 2400V (TWO PHASES USED) BUT CONSISTING OF THREE, 1/0 AWG 15KV CONCENTRIC NEUTRAL CABLES FROM BREAKER F1 IN POWER DISTRIBUTION CENTER (PDC). FEEDER IS DIRECT BURIED FROM TRANSFORMER TO JENKINS AVE TUNNEL, THEN SUSPENDED IN TUNNEL TO PDC. HI-POT WIRES TO ENSURE THEY ARE SUITABLE FOR REPURPOSING ON THE HIGHER VOLTAGE SYSTEM.
4. DISCONNECT EXISTING TRANSFORMER FEEDER AT F1 AND IF POSSIBLE PULL CABLE BACK TO JUNCTION OF KUHLMAN COURT TUNNEL AND RE-ROUTE ONE PHASE, EXTENDING AS REQUIRED TO SECTOR CAN. IF THE FEEDER CAN NOT BE PULLED BACK INTACT, CUT AT THE TUNNEL JUNCTION (REMOVE AND DISPOSE OF CABLE TO NORTH) AND SPLICE IN A NEW CABLE TO ONE PHASE AND EXTEND IT TO THE SECTOR CAN. TERMINATE AND CONNECT TO ONE PHASE AT THE CAN.
5. EXISTING FEEDER IN TUNNEL TO WAGNER HALL VIA SECTOR CAN.

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ISSUES AND REVISIONS
1 9-20-22 PRELIMINARY FOR REVIEW
2 10-24-22 FOR CONSTRUCTION

DESIGNED BY FR
DRAWN BY JAR
CHECKED BY FR

PARKING LOT LIGHTING
TRANSFORMER 2400V-
12.5KV PED CONVERSION
UNIVERSITY OF OKLAHOMA
Norman, Oklahoma

DRAWING TITLE
SITE PLAN

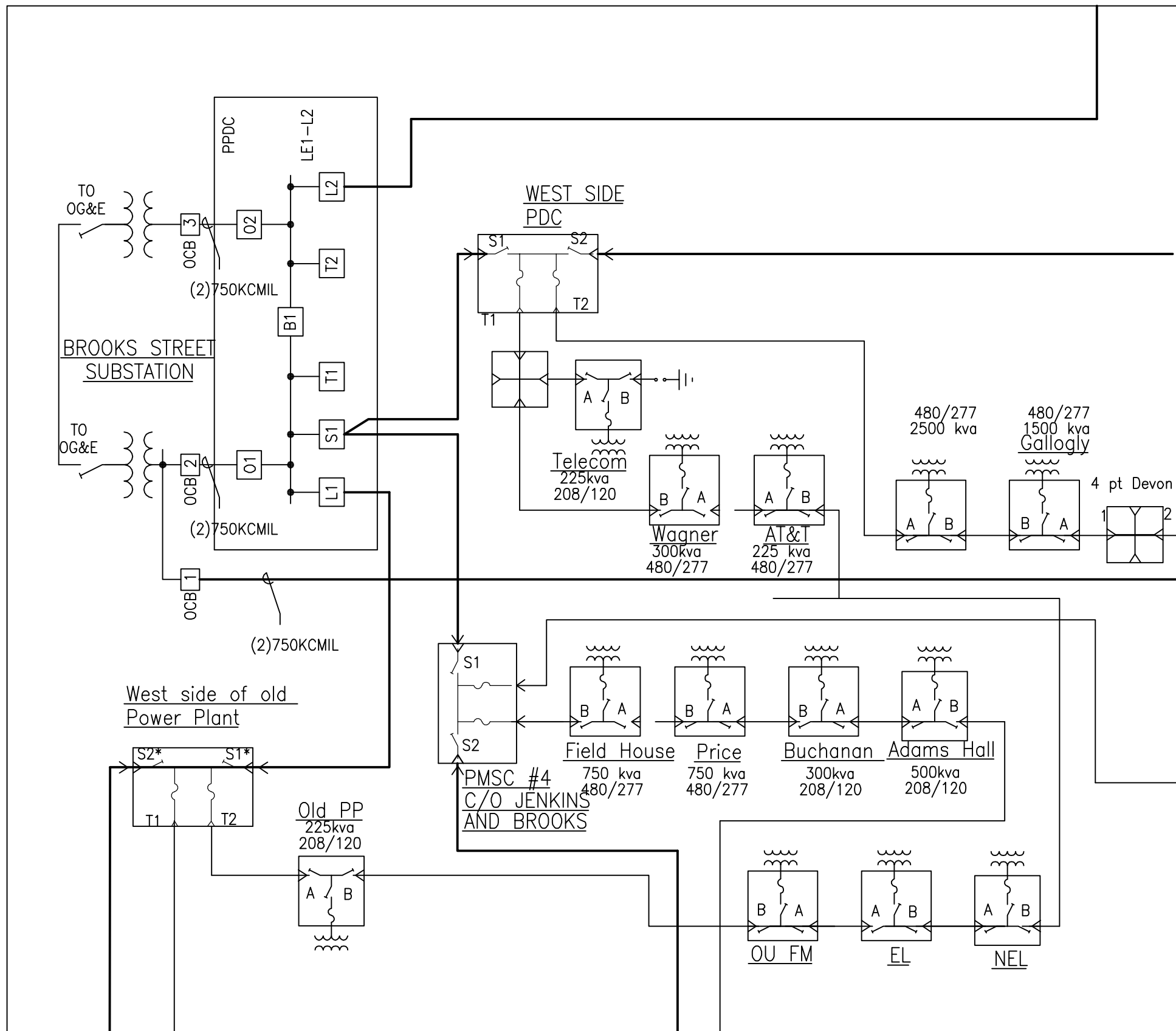
DATE
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PROJECT NUMBER
222803

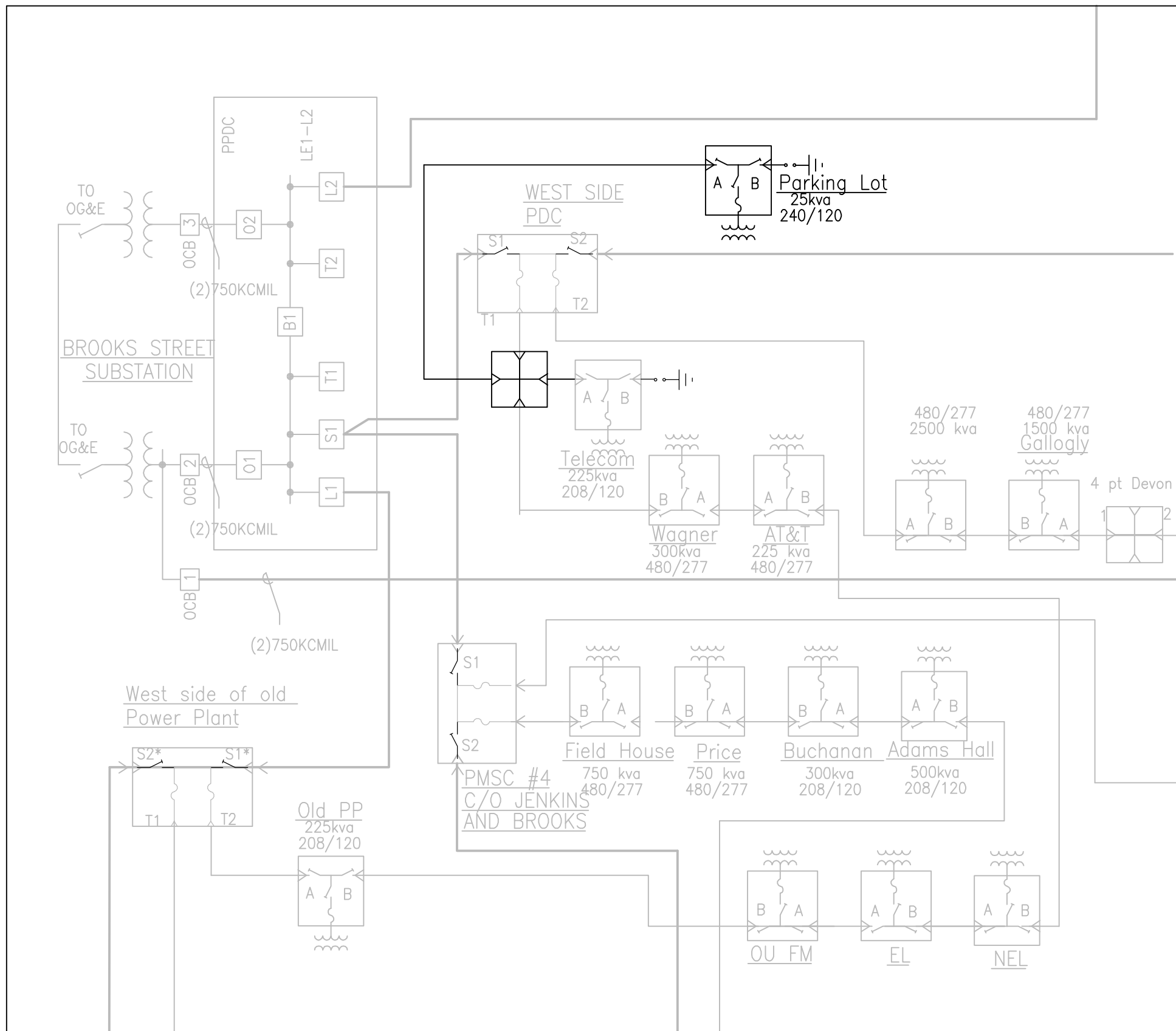
DRAWING NUMBER

E201

OF



1 EXISTING PARTIAL SINGLE LINE DIAGRAM
SCALE: NTS

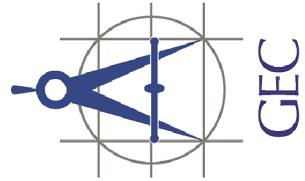


2 NEW PARTIAL SINGLE LINE DIAGRAM
SCALE: NTS

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION		
	3 POINT SECONALIZE TERMINAL		4 POINT SECONALIZE TERMINAL
	15KV, 750KCMIL, 600 A NOMINAL		15KV, 1/0 AWG, 200 A NOMINAL
	15KV, 600A, NON LOAD BREAK CONNECTOR		15KV, 200A, LOAD BREAKER ELBOW
	9KV M.O.V. LIGHTNING ARRESTOR		15KV PROTECTIVE CAP
	SECONALIZING DEVICE		SWITCH OR 3Ø GROUP OF ELBOW
	LOADBREAK GROUP OPERATED SWITCH		NON LOADBREAK SWITCH
	FUSE		FAULT INDICATORS
	TRANSFORMERS		

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ISSUES AND REVISIONS

DESIGNED BY
DRAWN BY
CHECKED BY

**PARKING LOT LIGHTING
TRANSFORMER 2400V-
12.5KV PED CONVERSION**
UNIVERSITY OF OKLAHOMA
Norman, Oklahoma

DRAWING TITLE
PED SINGLE
LINE DIAGRAMS
DATE
09/20/2022
PROJECT NUMBER
222803
DRAWING NUMBER

E601

