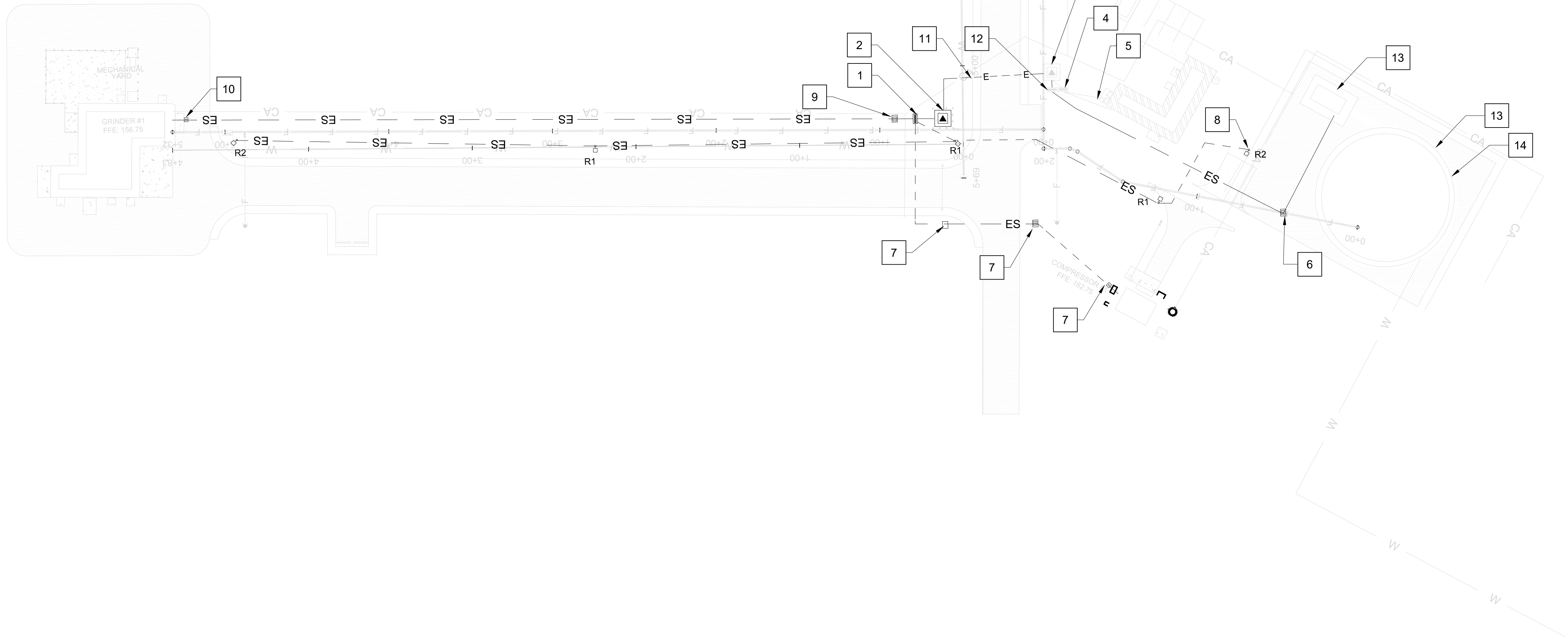


AREA 1 SEE ES101

AREA 3 SEE ES102



GENERAL NOTES

- BUILDING PLANS PROVIDED BY SEPARATE CONTRACT.
- REFER TO ARCHITECTURAL PLANS FOR BUILDING DIMENSIONS.
- REFER TO STRUCTURAL PLANS FOR BUILDING FOUNDATIONS.
- PROVIDE PERMANENT IDENTIFICATION LABELS FOR CONDUCTORS WITH CIRCUIT NUMBER, PANEL NAME, AND BUILDING NAME/NUMBER.
- CIRCUIT ROUTING IS DIAGRAMMATIC. COORDINATE DEPTH AND ROUTING WITH OTHER SITE UTILITIES TO MAINTAIN SEPARATION AND CLEARANCES. REFER TO CIVIL FOR EXISTING AND UTILITIES. PROVIDE AS-BUILT DRAWINGS OF ROUTING AND DEPTH.
- PROVIDE ROADWAY LIGHTING FIXTURES WITH PANEL, CIRCUIT NUMBER, AND BUILDING SERVED FROM. PROVIDE LABEL IDENTIFICATION ON POLE AND CONDUCTORS. COORDINATE LIGHTING FIXTURE SET BACK AND LOCATIONS WITH EXISTING AND NEW SITE UTILITIES.
- OECC ELECTRIC UTILITY HAS CONFIRMED THE ELECTRIC UTILITY SERVICE IS CONSIDERED RELIABLE IN ACCORDANCE WITH NFPA 20 REQUIREMENTS.

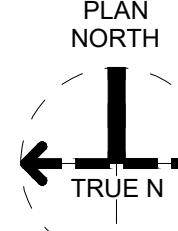
KEYNOTES

- PROVIDE 1200 AMP, 480 VOLT, 3 PHASE SWITCHBOARD WITH CIRCUIT BREAKERS TO SERVE THE GRINDER BUILDING, COMPRESSOR BUILDING, ROADWAY LIGHTING, AND SPARE CIRCUIT BREAKER FOR FUTURE. MOUNT SWITCHBOARD ON CONCRETE PAD WITH ANCHOR BOLTS AND BRACING. PROVIDE GROUNDING AND GROUND ROD ON TWO OPPOSITE CORNERS OF EQUIPMENT PAD. PROVIDE FEEDER AND CONDUIT CONNECTION TO OECC PROVIDED TRANSFORMER. COORDINATE REQUIREMENTS AND CONNECTIONS WITH OECC.
- OECC PROVIDED TRANSFORMER FOR GRINDER BUILDING AND COMPRESSOR BUILDING. COORDINATE LOCATION, SECONDARY CONDUCTOR CONNECTIONS, GROUNDING, AND PAD.
- EXISTING OECC TRANSFORMER SERVING THE EXISTING CONTROL BUILDING TO REMAIN.
- EXISTING PANELBOARD FEEDING THE CONTROL BUILDING TO REMAIN. DISCONNECT AND REMOVE FEEDER TO GRINDER BUILDING AND EXISTING COMPRESSOR IN CONTROL BUILDING.
- EXISTING CONTROL BUILDING FEEDER TO REMAIN.
- PROVIDE DEDICATED FEEDER DUCT BANK FOR CONNECTION TO FIRE WATER PUMP HOUSE TO MEET FIRE PUMP REQUIREMENTS. PROVIDE CONNECTION TO PACKAGED PUMP HOUSE PANEL ACCORDING TO PUMP HOUSE MANUFACTURER REQUIREMENTS. SETUP MEETING WITH PUMP HOUSE MANUFACTURER AND COORDINATE FEEDER SIZE AND CONNECTION REQUIREMENTS.
- PROVIDE (3) 3" CONDUITS TO PULL BOX FOR FUTURE COMPRESSOR BUILDING.
- PROVIDE 480 VOLT, 2-POLE ROADWAY LIGHTING ON CONCRETE POLE BASE WITH GROUND ROD AND 30FT POLES. PROVIDE FUSIBLE DISCONNECT IN CIRCUIT ACCESSIBLE FROM POLE HAND HOLE. PROVIDE UNDERGROUND CIRCUIT FROM 20 AMP/3-POLE CIRCUIT BREAKER IN GRINDER BUILDING EXTERIOR SWITCHBOARD ALTERNATING TO EACH FIXTURE TWO PHASES (AB, BC, AC) 3-48, 1-48 GROUND IN 1-INCH CONDUIT, (2-48, 1-48 GROUND TO FIXTURE).
- PROVIDE PULL BOX AND EXTEND CONDUITS TO PULL BOX FOR FUTURE EXTENSION TO BUILDING.
- PROVIDE (4) 3" CONDUITS BETWEEN PULL BOXES. CONDUIT EXTENSION TO BUILDING TO BE COMPLETED IN FUTURE PHASE.
- PRIMARY UTILITY DUCTBANK, CONDUIT, AND CONDUCTORS BY OECC ELECTRIC UTILITY.
- PROVIDE 400 AMP, 3 POLE, 600 VOLT, NON-FUSED DISCONNECT SWITCH FED FROM SECONDARY OF UTILITY TRANSFORMER FOR THE FIRE WATER PUMP HOUSE. PROVIDE GALVANIZED STEEL CHANNEL SUPPORT WITH CONCRETE BASE AND GROUND ROD. PROVIDE DISCONNECT SWITCH WITH RED FINISH AND LABEL FIRE PUMP HOUSE. COORDINATE LUG CONNECTION TO EXISTING UTILITY TRANSFORMER.
- PROVIDE LIGHTNING PROTECTION AND GROUNDING AT FIRE PUMP HOUSE AND TANK. PROVIDE GROUND RING AND GROUND RODS AT EACH DOWN CONDUCTOR LOCATION AND AT SERVICE ENTRANCE LOCATION.
- PROVIDE CATHODIC PROTECTION SACRIFICIAL ANODE FOR FIRE WATER TANK, UNDERGROUND METAL WATER PIPE, AND VALVES. COORDINATE WITH PUMP HOUSE AND TANK MANUFACTURER. REFER TO CIVIL AND FIRE PROTECTION PLANS FOR PIPING AND TANK LOCATION.

LEGEND

	LIGHTING POLE
	ELECTRICAL PRIMARY OECC UNDERGROUND CONDUIT
	ELECTRICAL SECONDARY UNDERGROUND CONDUIT
	PANELBOARD
	TRANSFORMER
	EXISTING TRANSFORMER
	EXISTING PANELBOARD

KEY PLAN



A1

ELECTRICAL SITE PWR & LTG PLAN - AREA 3

SCALE 1" = 40'

