

# FOREST PRESERVE DETAILED PROJECT WORK PLAN

**Fiscal Year 2024**  
**Project # CO-WP-350**

<u>Region</u> 5	<u>Project Title</u> Luzerne Campground Powerline Improvements
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<u>Project Type</u> Modification of Existing Structure/Improvement	<u>Town(s)</u> Lake Luzerne	<u>County</u> Warren	<u>Management Unit</u> Luzerne Campground and Day Use Area
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Description of Desired Condition(s) for Project

The desired conditions for this project are to provide improvements to the campgrounds electric system so that it will better blend the facility with the environment and to improve the resiliency of the electrical system by protecting the powerlines from the damaging elements and trees. To achieve this condition, much of the existing overhead electrical will be relocated below grade and the remaining aboveground powerline corridor will be maintained. This will enhance the natural aesthetic and recreational experience for visitors. Also, this will reduce the need for more extensive tree removal in the future because the overhead electric corridor will no longer need to be maintained to the current width for tree removal. Thus, over time, the natural revegetation of the underground utility corridor will diminish visual impacts compared to continued maintenance of overhead utilities.

Description of Project Specifications

The proposal is to relocate the existing overhead electric lines below grade by connecting them with existing underground electric. To implement this, it is preferred to use a directional drilling method. This involves drilling a hole from one designated area to another and pulling the utility through that hole. Tree cutting and earthwork are required for this action.

A total of 2,820 feet of overhead electric will be removed and replaced with 3,244 feet of underground electric. The underground electric will run east from pole P-3 towards pole P-7 continuing both south to pole P-12 and north towards pole P-21. The lines will also run northeast from pole P-7 to pole P-25. A total of twenty 35-by-10-foot drill pits will be excavated and utilized to place lines underground while a 35-by-10-foot area adjacent to each drill pit will be designated for the placement of excavated materials. These areas are symbolized by numbered rectangles with the shaded half representing the drill pit and the adjacent unshaded half representing the area designated for the placement of excavated materials.

One deteriorated meter pole will be replaced in-kind and most of the existing utility poles will be cut at grade and removed. However, several of these poles will remain for meters, junction boxes,

transformers, etc. and will be cut to the height necessary for the appurtenance. The existing transformers will be replaced with the installation of three new pad-mounted transformers. Transformers will be placed at or near poles P-7, P-14, P-21. Additional details can be found in the attached plan set.

The remaining overhead powerline corridor will require tree cutting. A corridor will be cleared to the minimum width of 10 feet from each outside wire to maintain the corridor. This will result in a corridor width of 26 feet for the corridor that runs from National Grid Pole 8.1 to DEC Pole 1, and DEC Pole 1 to DEC Pole 2. The corridor that runs from DEC Pole 2 to DEC Pole 3 has a width of 20 feet.

### Description of Measures Taken to Avoid, Mitigate and Minimize Impacts to Natural Resources

Directional drilling was selected as the preferred method of excavation because it will require fewer trees to be removed and less earth work than the trenching method. Several tree tallies were completed to analyze the impacts this project may have (see attached). All trees will be chipped and dispersed on-site to blend with the environment. By installing an underground electrical service, not only are the campgrounds aesthetics improved, but the need for routine tree removal will be reduced. The removal of 2,820 feet of overhead electric will decrease visual impacts and restore the primitive character of those areas within the intensive use area.

For directional drilling excavation, there are a total of eight trees to be removed. All eight trees are between 1 and 3 inches diameter at breast height (DBH).

For maintenance of the remaining overhead powerline corridor there are a total of four trees 3 inches or greater DBH, and 16 trees between 1 and 3 inches DBH will be removed. This tally is for the area between poles NG-8.1 to P-1 and P-2 to P-3.

All areas disturbed by construction, including the drill pits, shall receive 4 inches of topsoil and turf will be established. There are no streams, waterbodies or wetlands that will be affected by this project. There are no rare, endangered, or threatened animal or plant species within a ¼ mile of the project area.

### Analysis of Project Location and Design Alternatives

This project site is in an existing campground, classified as Intensive Use, where work will occur throughout. The location of the proposed underground electric was determined due to its proximity in relation to the existing infrastructure corridor. The underground electric will follow the same corridor that the existing overhead electric used. This design was chosen to minimize tree cutting, discourage new disturbances and to enhance the natural aesthetic of the campground.

The following alternatives were considered:

- 1) Replacing existing overhead electric with new overhead electric – this presents an ongoing maintenance issue with high winds and downed trees impacting the lines and public safety. Also, the current width for maintenance of this overhead electric is approximately 25 feet with placement of the pole line in the center of the corridor. This clearance allows for bucket truck access for line maintenance, however, with the utilities being moved underground the need for this size equipment will be eliminated. The tree removal that would result from maintaining the overhead electric at a 25-foot width will exceed that which is proposed in this work plan because directional drilling requires less disturbance at grade and along the corridor.

- 2) A traditional trenching method was considered, but not preferred, regarding the excavation needs for the installation of underground powerlines. This would involve:

A 15-foot-wide corridor to be cleared from the pavement edge (campground road) to install the material and utility lines. A completed tree tally (Traditional Trenching Sample-attached) represents the sum of four 200-foot-by-15-foot segments sampled along the proposed route. For this 800-foot section, a total of 56 trees would need to be removed including 41 trees 3 inches or greater DBH, and 15 trees between 1 and 3 inches DBH. If the total length of this project is 5,000-feet, it is estimated that approximately 350 trees would need to be removed and 75,000 square feet of soil disturbed to install the utility lines using the trenching method. Ultimately, this method would result in both a greater quantity of tree removal and earth work compared to the preferred method of directional drilling.

- 3) Removal of all electric lines without replacement – this presents the possibility of a permanent campground closure due to a lack of utilities that are needed to operate the buildings and other infrastructure within the campground. For example, essential wastewater infrastructure, such as lift stations, need electrical power to function.

#### Description of Use of Motorized Equipment and/or Motor Vehicles (if any)

This project will employ the use of various types of motorized equipment and motor vehicles. Hydraulic utility bucket trucks, a boring machine, an excavator, and dump trucks will be used for work associated with powerlines and drilling into the soil. Chainsaws and a chipper will be used for tree cutting and removal.

#### Description of Applicable Standards for Accessibility by People with Disabilities

Not applicable

#### Other Relevant Considerations

None

Prepared by (Name & Title): Mitchell Krah - EPS 1  
Phone: (518) 897-1205

Date: 5/30/2024

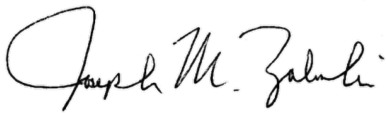
Approvals:

Comments:



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Regional Program Manager  
Date: 7/16/2024



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Regional Director  
Date: 9/27/2024



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Division Director  
Date: 09/27/2024

**REGULATORY CLEARANCE CHECKLIST – STATE LANDS and CONSERVATION EASEMENT PROJECTS**

PROGRAM	PERMIT	REQUIRED		SECURED BY	COMMENTS
		YES	NO	(NAME)	
Air Resources	Restricted Burning	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Mineral Resources	Mining	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Materials Management	Solid Waste Mgt. Fac.	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Water	Dam Safety Review	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Const. in Flood Hazard	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Public Water Supply	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	SPDES	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Spills Management	Petro. Bulk Storage	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Lands and Forests	Unit Management Plan	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Tree Cutting	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mitchell Krah	Approval through this work plan
	Protected Native Plants	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Historic Preservation	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Fish and Wildlife	Freshwater Wetlands	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Wild Scenic & Rec. River	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Compliance Services	Other Protection of Waters	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	EAF	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Negative Declaration	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Env. Impact Statement	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Water Quality Cert.	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
DEC (other)	CP-17	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Commissioner (aircraft,motorized equipment)	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Flight Request	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Contract Clearance Sh.	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	DOB Exemption	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Other Agencies	APA MOU	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	APA Wetlands Permit	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Corps. of Engineers	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Building Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Local Permits	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Easements	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
	Highway Enter DOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
Wastewater Disposal	<input type="checkbox"/>	<input checked="" type="checkbox"/>			



## State Land Tree Tally

Project: Lake Luzerne Campground- Maintenance of Power Lines

State Land Unit: Lake Luzerne Campground Intensive Use Area

County: Warren

Town: Lake Luzerne

Date Tallied: February 14, 2024

Tallied By: Rebecca Terry

Species	Diameter (inches)														Total
	2	4	6	8	10	12	14	16	18	20	22	24	26	28	
birch, grey					1										1
pine, white		1							1		1				3
All species 1-3"	16														16
<b>Total</b>	<b>16</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>20</b>



September 3, 2024

Josh Houghton  
Via email: [josh.houghton@dec.ny.gov](mailto:josh.houghton@dec.ny.gov)

**RE: State Land Consultation Determination SL2024-0017**

Josh Houghton,

Pursuant to the "MOU Between the Adirondack Park Agency and the Department of Environmental Conservation Concerning Implementation of the State Land Master Plan for the Adirondack Park," I am writing to offer a staff interpretation in response to your inquiry related to relocation of the existing electrical system at the Luzerne Public Campground. The proposed work on the electrical system as indicated on the attached work plan is considered to be relocation of a conforming structure on lands classified as Intensive Use. The relocation of the electrical system therefore does not require an amendment to the Luzerne Public Campground Unit Management Plan before it may be undertaken.

Agency staff have evaluated this project for wetland involvement and determined that wetlands will not be involved.

If you have any questions, please do not hesitate to contact the Agency.

Sincerely,

/s/ Kevin Pickett

Environmental Program Specialist 2

ec: Josh Clague, Adirondack Coordinator  
Rob Daley, Regional Forester  
Kris Alberga, Supervisor of Natural Resources, Region 5

## **Rationale for Determination**

The project is located at DEC's Luzerne Public Campground. The campground has a unit management plan that was completed in May 1994. An inventory of the electric system is identified in exhibit 6 of the UMP. The UMP notes the existence of an overhead and underground electrical distribution system. The project proposes to relocate a portion of the existing overhead electric line to underground. The path of the underground line will follow relatively the same corridor that the existing overhead electric line uses. The utility line will be placed in a boring created by directional drilling. A total of twenty 35-by-10-foot drill pits will be excavated and utilized to place the lines underground. Upon completion of the boring, these pits will be filled and rehabilitated. The current overhead electric line includes a total of 2,820 feet. The underground replacement will total 3,244 feet.

The proposal also includes replacing existing transformers with three new pad-mounted transformers (at or near poles P-7, P-14, P-21). The proposal also includes clearing, that is tree cutting, of an existing powerline corridor. The corridor clearing will take place from National Grid Pole 8.1 to DEC Pole 3.

For this project, according to the included State Land Tree Tally, a total of 28 trees will be cut. Eight trees are to be removed for the directional drilling excavation. A total of 20 trees will be removed for maintenance of the remaining overhead power line corridor.

The use of directional drilling was chosen to minimize tree cutting, discourage new disturbances and to enhance the natural aesthetic of the campground. Alternatives, including replacing the existing overhead electric, traditional trenching, and removal of the electric lines was considered.

The SLMP's basic guideline for intensive use areas is to provide recreational opportunities in a setting and on a scale that are in harmony with the relatively wild and undeveloped character of the Adirondack Park. When completed, this proposal will move the campground closer to this goal. The APA/DEC MOU identifies activities considered ordinary maintenance, rehabilitation and minor relocation not requiring approval in an approved and filed UMP including minor relocation of electric and telephone lines.

The proposal identified in this consultation is considered ordinary maintenance. The project involves tree cutting; however tree cutting will be in conformance with Commissioner Policy 78 (which supersedes Lands and Forest Policy LF-91-2).

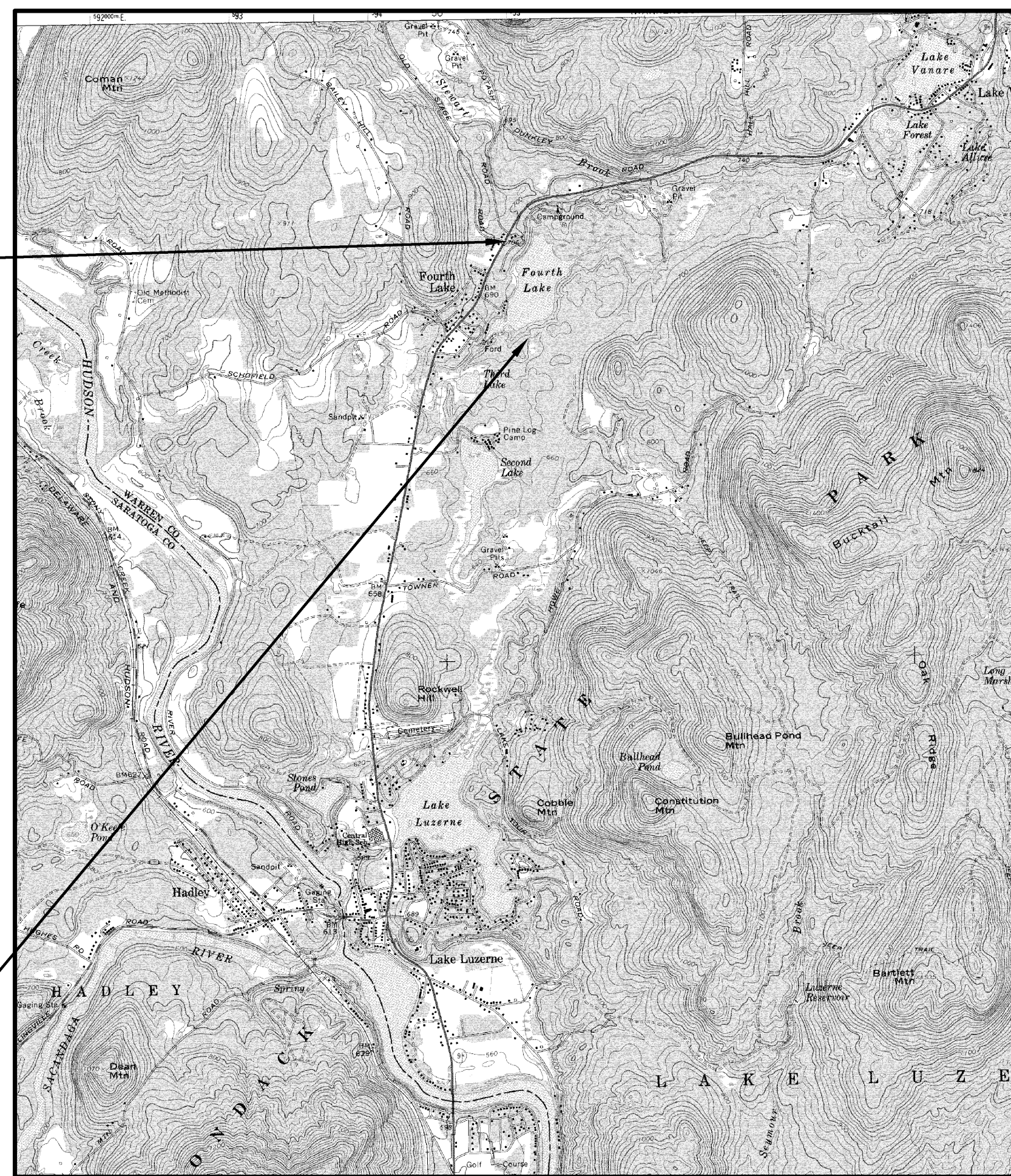
# LAKE LUZERNE CAMPGROUND

## ELECTRIC SYSTEM IMPROVEMENTS

TOWN OF LAKE LUZERNE \* COUNTY OF WARREN \* STATE OF NEW YORK



**Department of  
Environmental  
Conservation**



**LOCATION MAP**  
**(43.360818, -73.826577)**

PROJECT LOCATION



### DRAWING INDEX

- T1 TITLE SHEET
- C1 OVERALL SITE PLAN
- C2 DISTURBANCE PLAN I
- C3 DISTURBANCE PLAN II
- C4 DISTURBANCE PLAN III
- E1 SITE PLAN I
- E2 SITE PLAN II
- E3 SITE PLAN III
- E4 MISCELLANEOUS ELECTRICAL DETAILS 1 OF 3
- E5 MISCELLANEOUS ELECTRICAL DETAILS 2 OF 3
- E6 MISCELLANEOUS ELECTRICAL DETAILS 3 OF 3

Department of  
Environmental  
Conservation



DIVISION OF OPERATIONS  
BUREAU OF DESIGN AND CONSTRUCTION

RECOMMENDED FOR APPROVAL BY:

DATE PROJECT LEADER BUREAU OF DESIGN AND CONSTRUCTION

DATE CHIEF BUREAU OF DESIGN AND CONSTRUCTION

DATE DIRECTOR DIVISION OF OPERATIONS

PROJECT DESCRIPTION

LAKE LUZERNE CAMPGROUND  
ELECTRIC SYSTEM IMPROVEMENTS

TITLE SHEET

FACILITY NAME  
LAKE LUZERNE CAMPGROUND

FACILITY NO. 0033

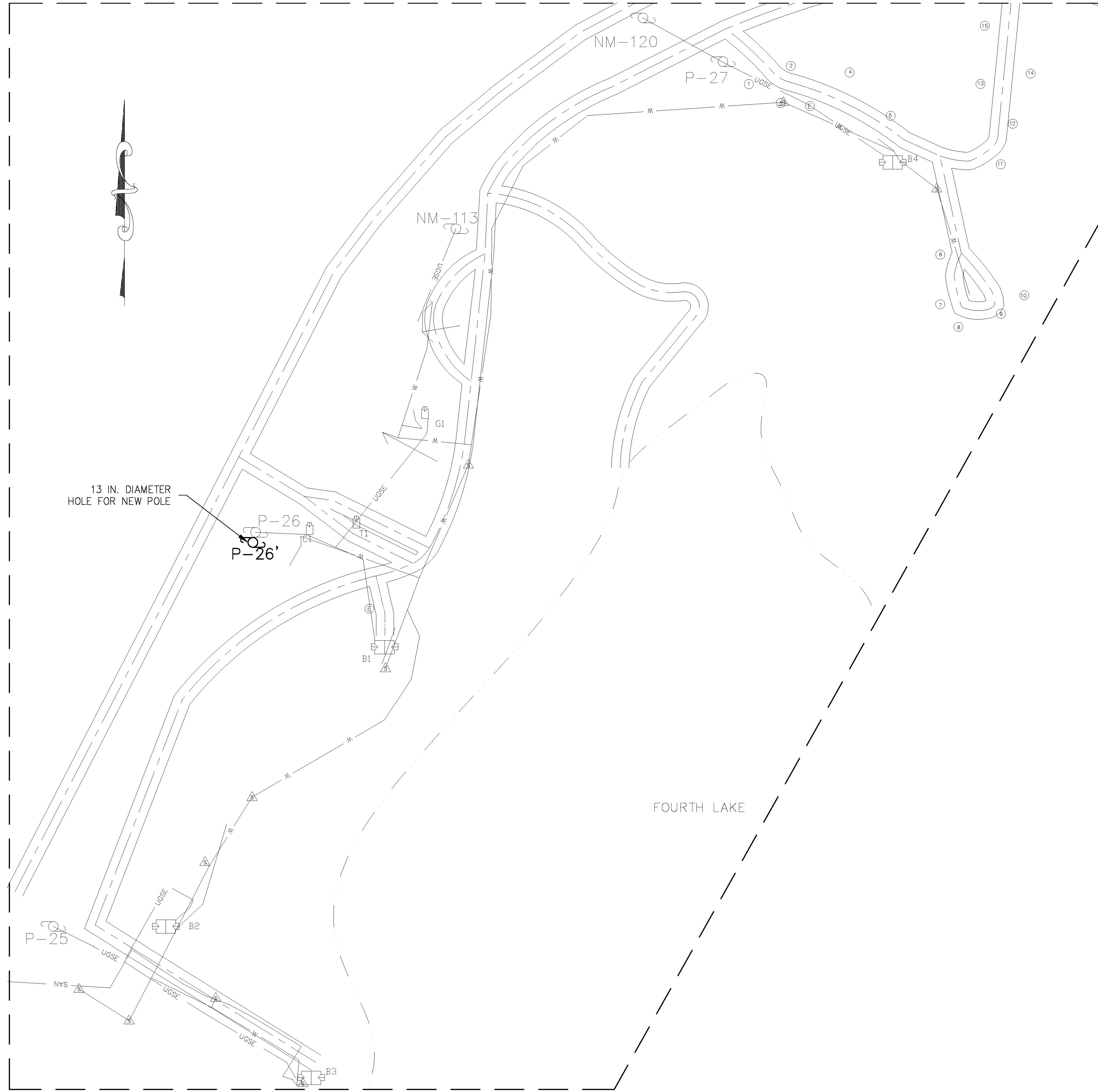
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DATE APR. 2024

SCALE NONE

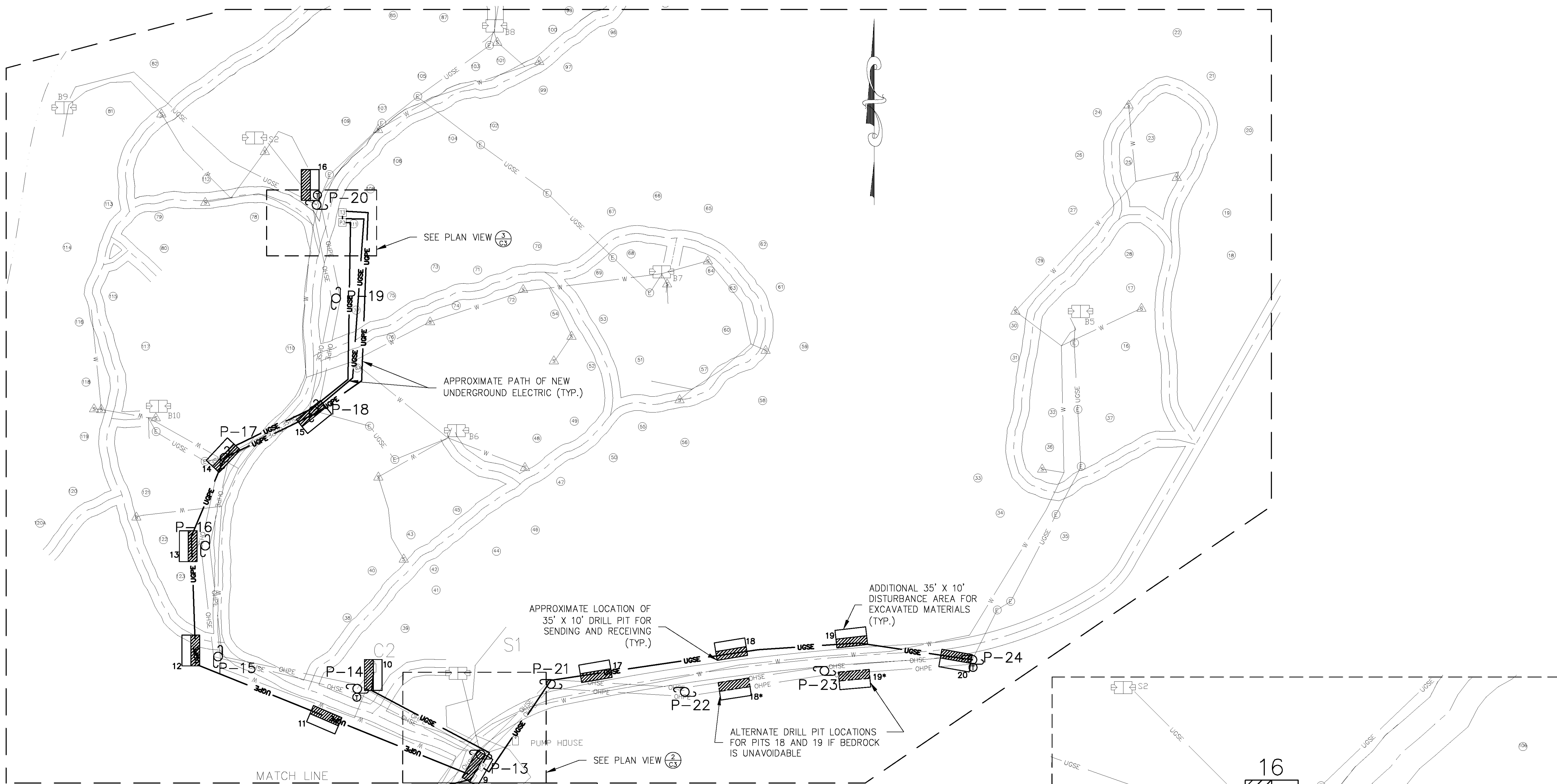
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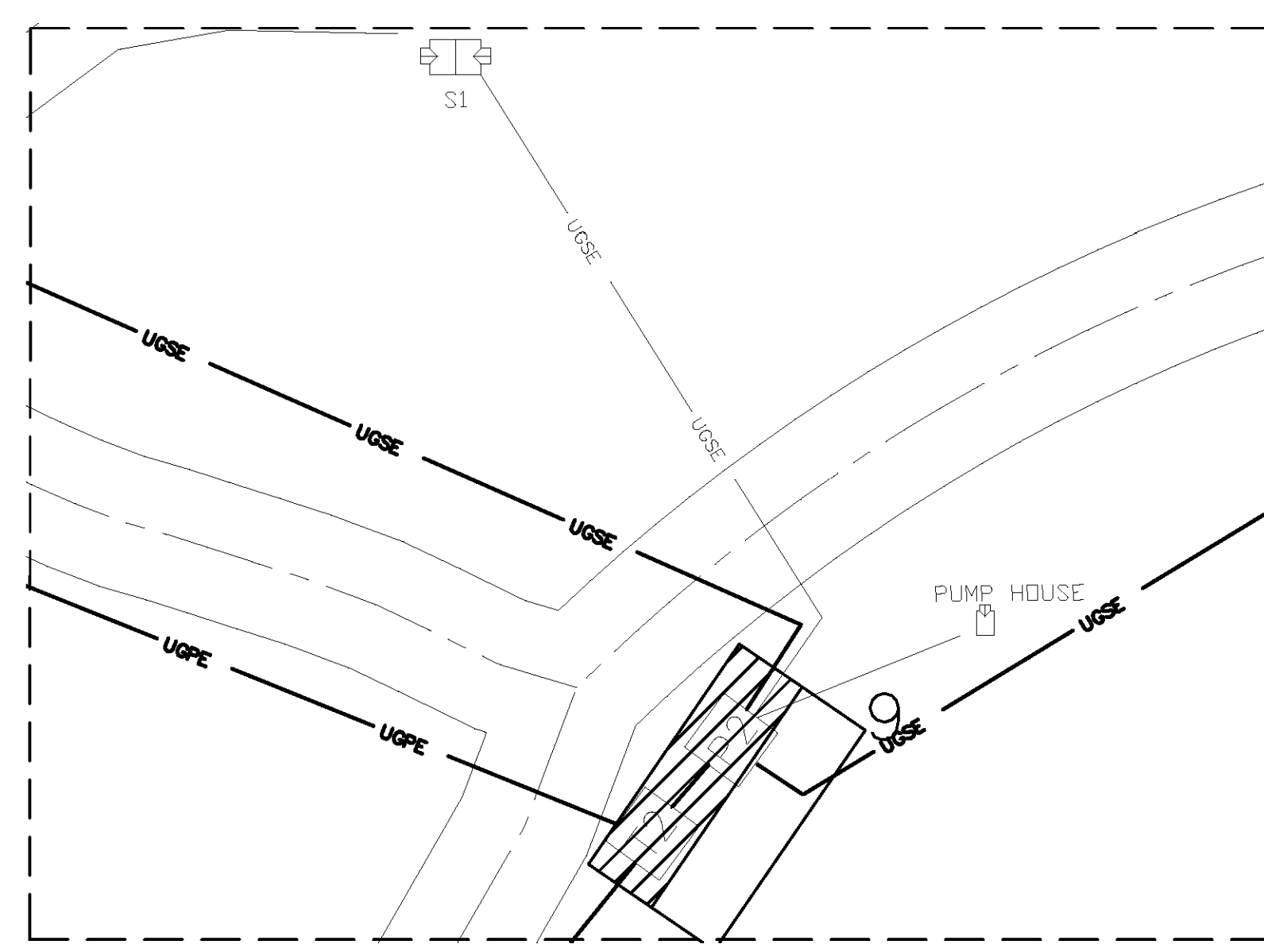
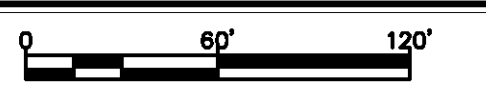


PARTIAL DISTURBANCE PLAN 1  
C2

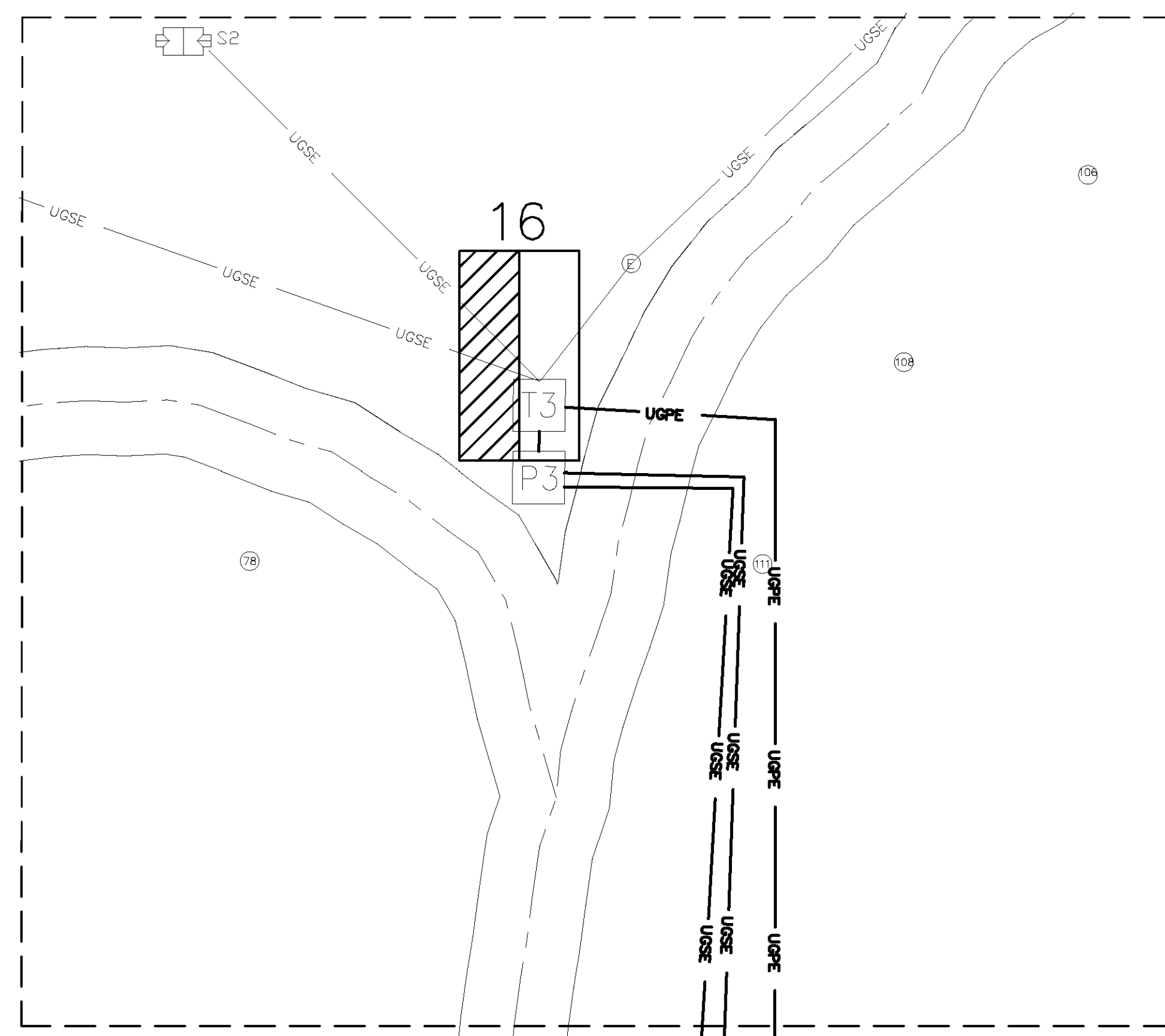
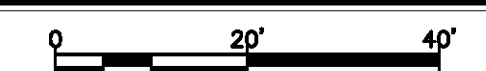
		<b>Department of Environmental Conservation</b>
DIVISION OF OPERATIONS BUREAU OF DESIGN AND CONSTRUCTION		
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<b>FACILITY NAME</b>	LAKE LUZERNE CAMPGROUND	
<b>FACILITY NO.</b>	0033	
<b>PROJECT NO.</b>	71341	
<b>DATE</b>	APR. 2024	
<b>SCALE</b>	1" = 60'	
<b>DRAWING NO.</b>	<b>C2</b>	
<b>REVISIONS</b>	<b>NO. DATE</b>	<b>DESCRIPTION</b>
BY	DESIGNED	BY
BY CB	BY AI	BY AI
BY AI	CHECKED	BY CB
BY AI	BY CB	DRAWN
BY AI	BY AI	BY AI



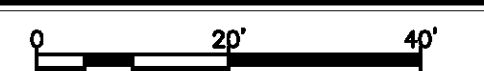
**PARTIAL DISTURBANCE PLAN** 1  
C3



**ENLARGED PLAN VIEW** 2  
C3



**ENLARGED PLAN VIEW** 3  
C3



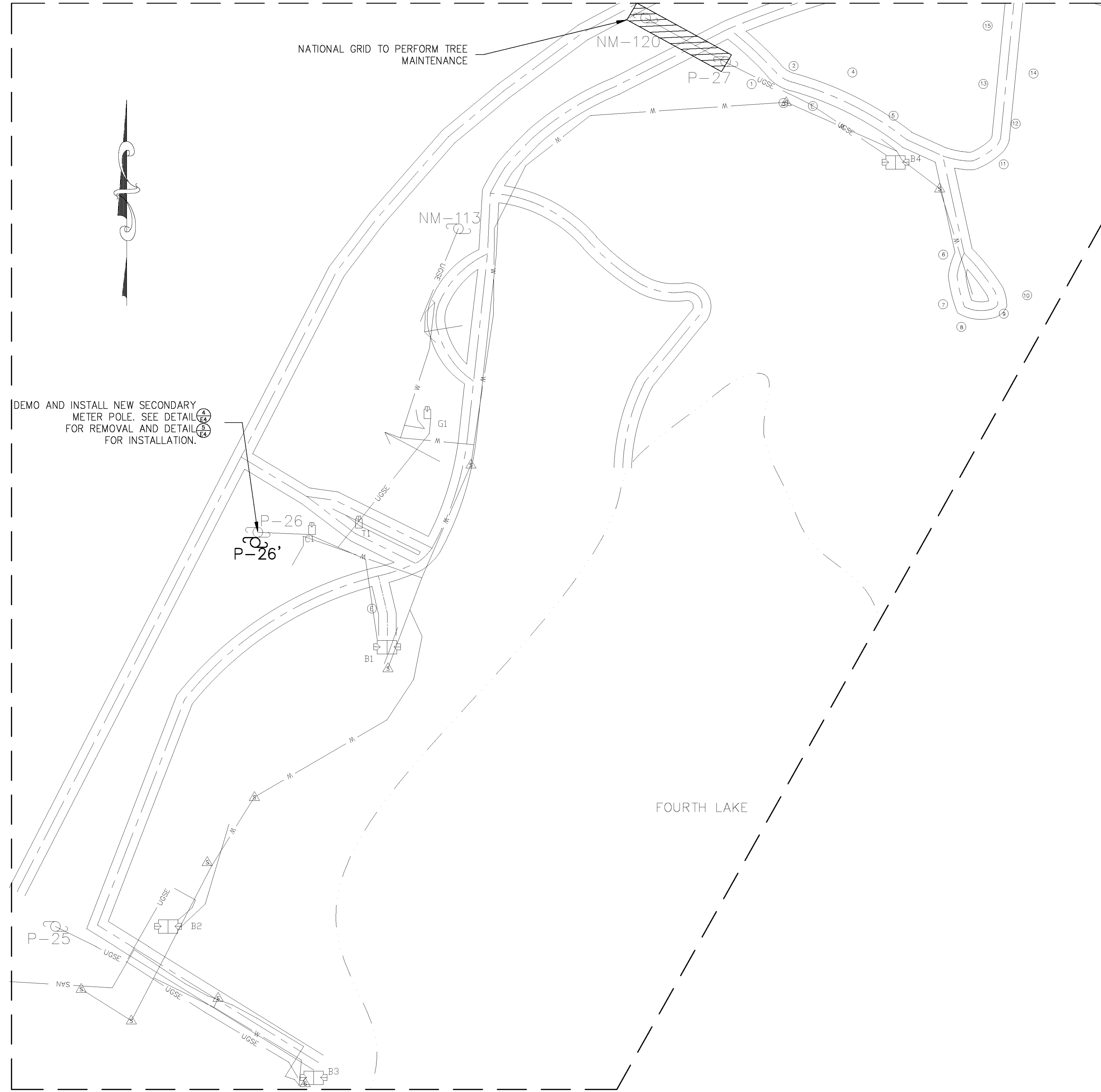
REVISIONS	BY	DESCRIPTION
NO. DATE	BY AI BY CB	DESIGNED CHECKED

**PROJECT DESCRIPTION**

LAKE LUZERNE CAMPGROUND  
ELECTRIC SYSTEM IMPROVEMENTS  
**DISTURBANCE PLAN II**

<b>FACILITY NAME</b>	LAKE LUZERNE CAMPGROUND
<b>FACILITY NO.</b>	0033
<b>PROJECT NO.</b>	71341
<b>DATE</b>	APR. 2024
<b>SCALE</b>	AS NOTED
<b>DRAWING NO.</b>	C3





NO.	DATE	REVISIONS DESCRIPTION	BY	DESIGNED BY: AI

**PROJECT DESCRIPTION**  
LAKE LUZERNE CAMPGROUND  
ELECTRIC SYSTEM IMPROVEMENTS

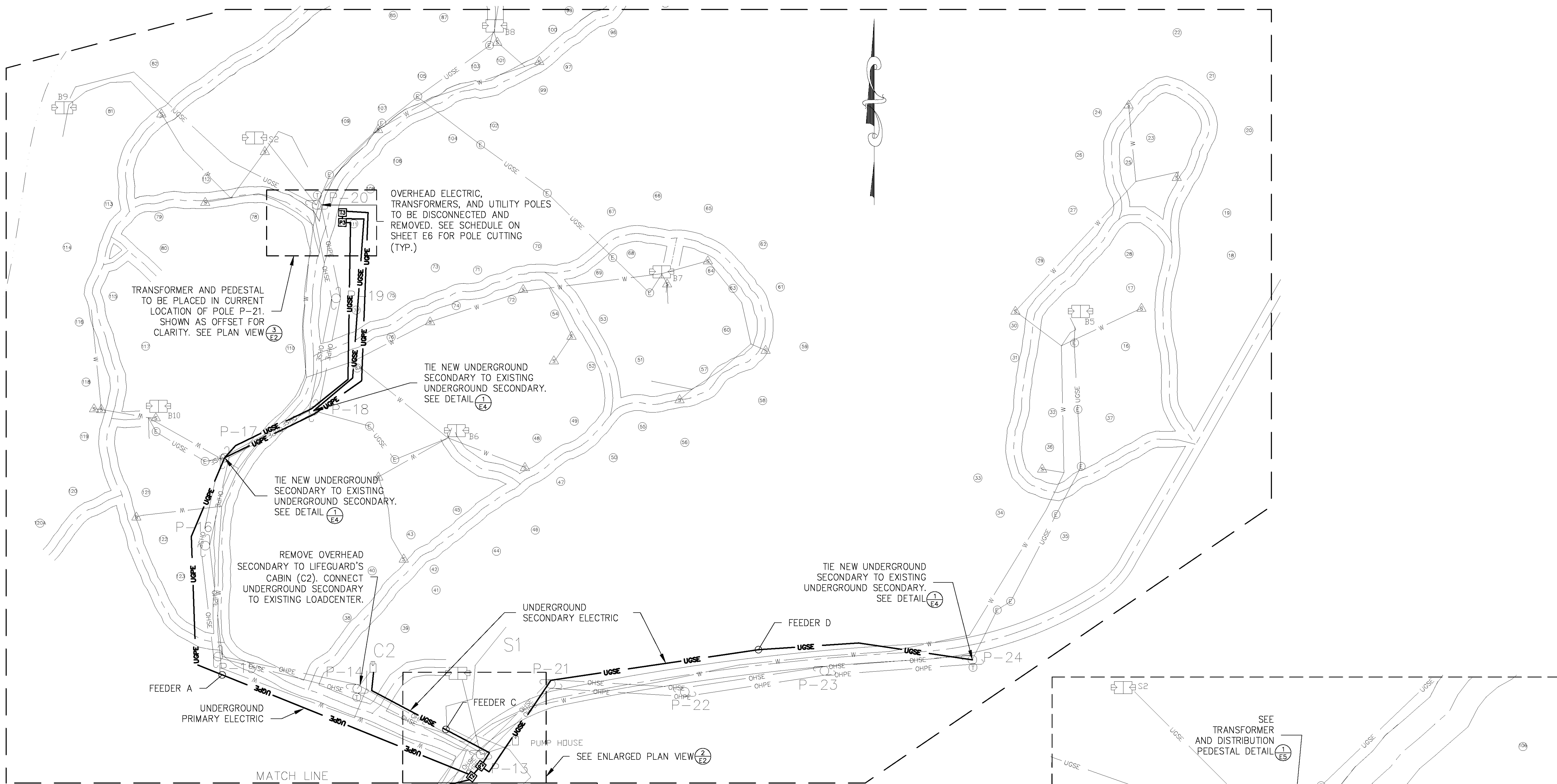
**SITE PLAN I**

<b>FACILITY NAME</b>	LAKE LUZERNE CAMPGROUND
<b>FACILITY NO.</b>	0033
<b>PROJECT NO.</b>	71341
<b>DATE</b>	APR. 2024
<b>SCALE</b>	1" = 60'
<b>DRAWING NO.</b>	E1

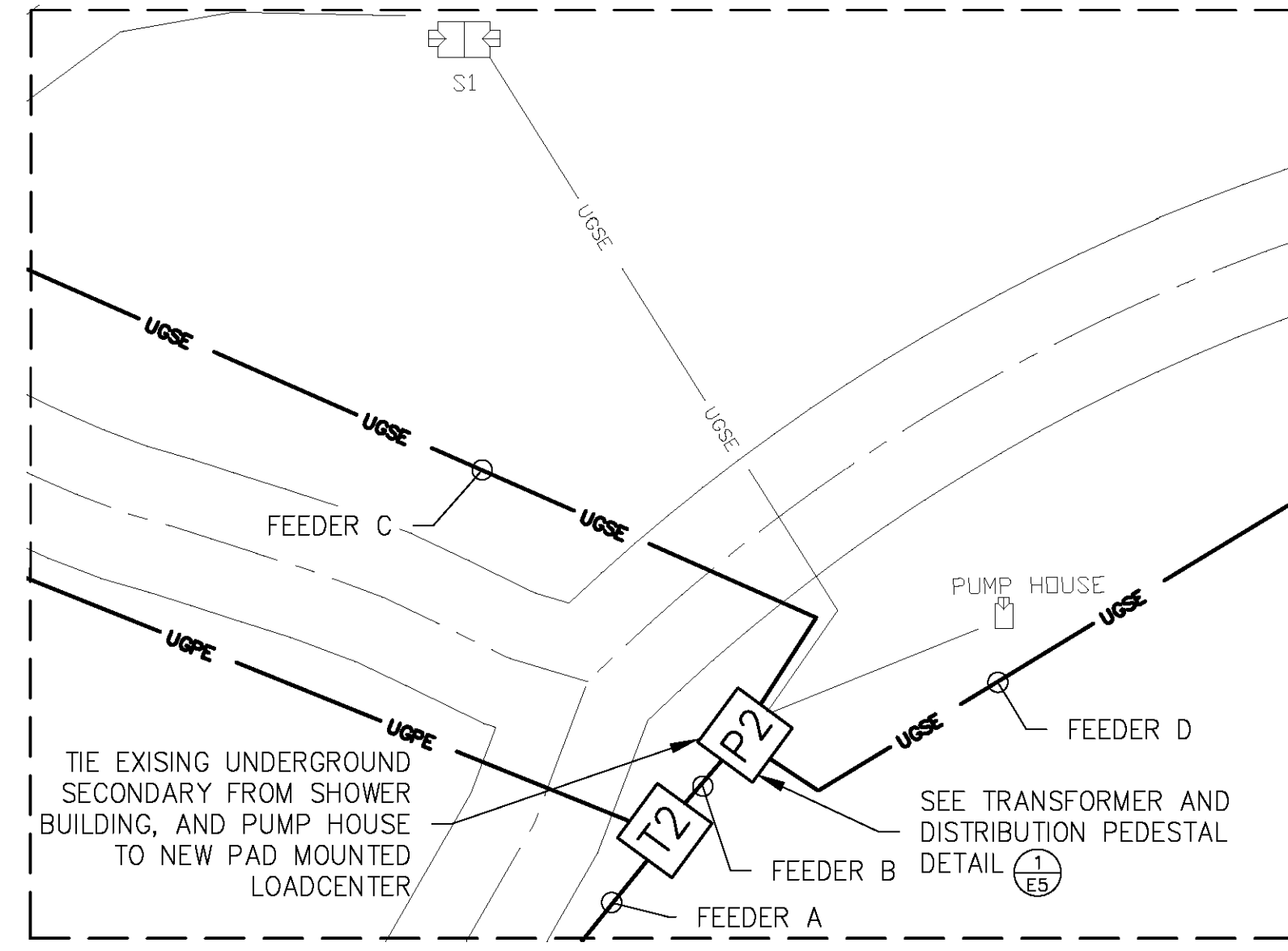
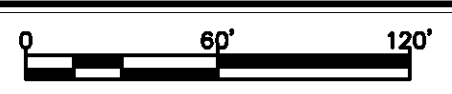
DESIGNED BY	BY
BY AI	
CHECKED BY	DESCRIPTION
BY CB	
DRAWN BY	
BY AI	

PROJECT DESCRIPTION  
LAKE LUZERNE CAMPGROUND  
ELECTRIC SYSTEM IMPROVEMENTS  
SITE PLAN II

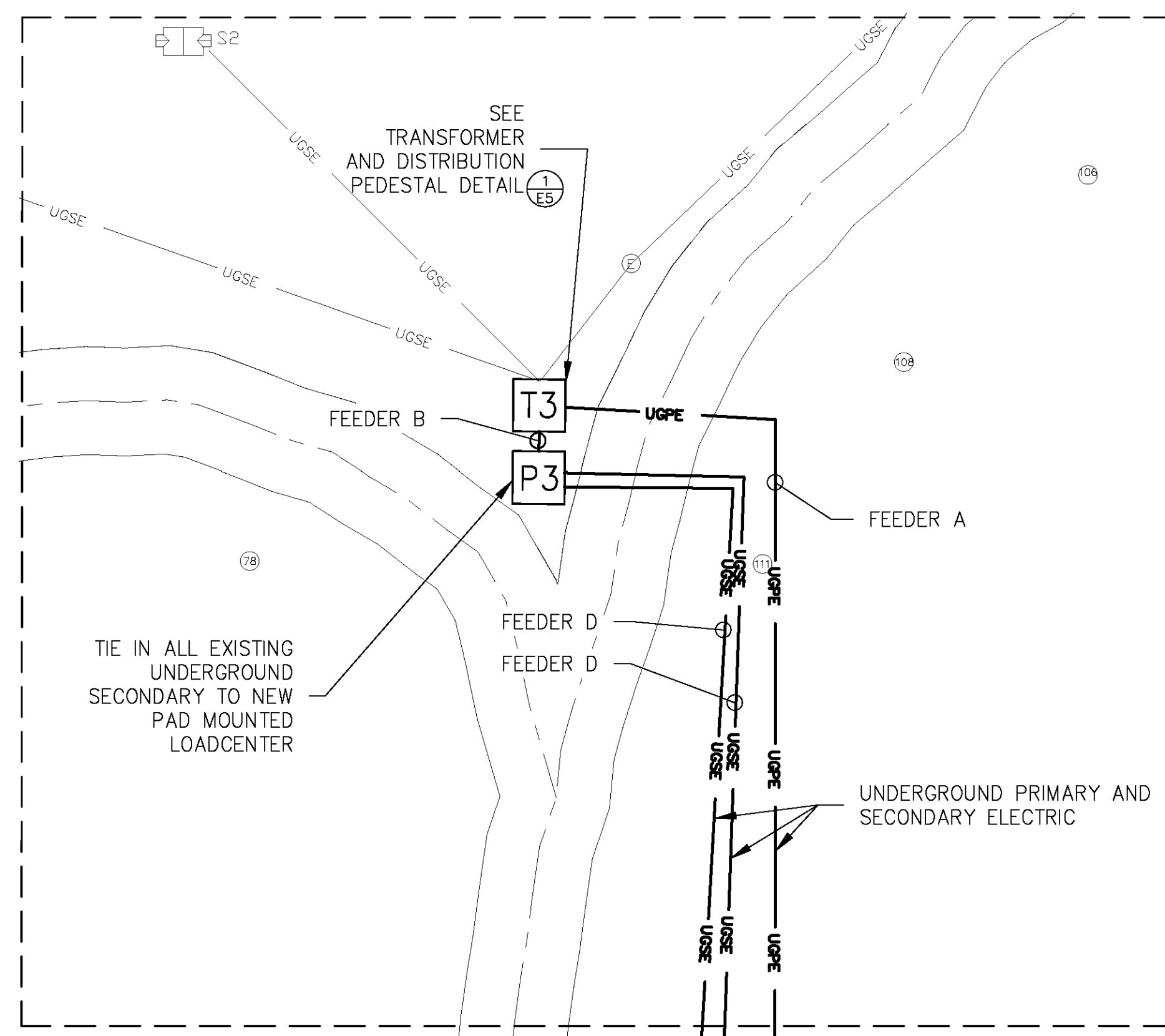
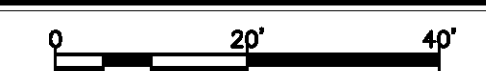
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FACILITY NO.	0033
PROJECT NO.	71341
DATE	APR. 2024
SCALE	AS NOTED
DRAWING NO.	E2



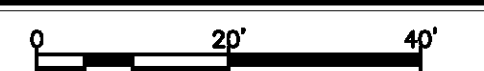
PARTIAL SITE PLAN 1  
E2

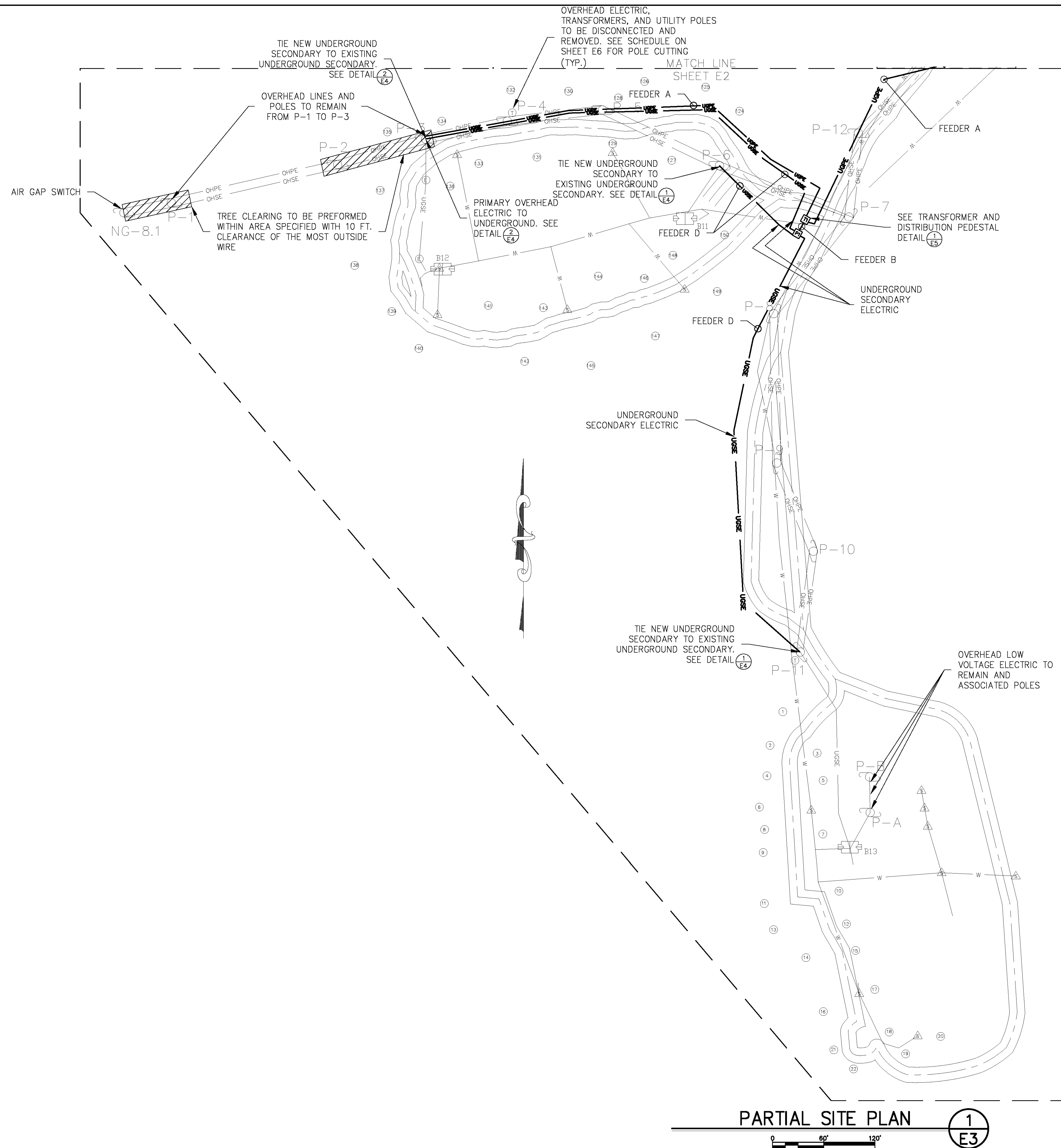


ENLARGED PLAN VIEW 2  
E2



ENLARGED PLAN VIEW 3  
E2

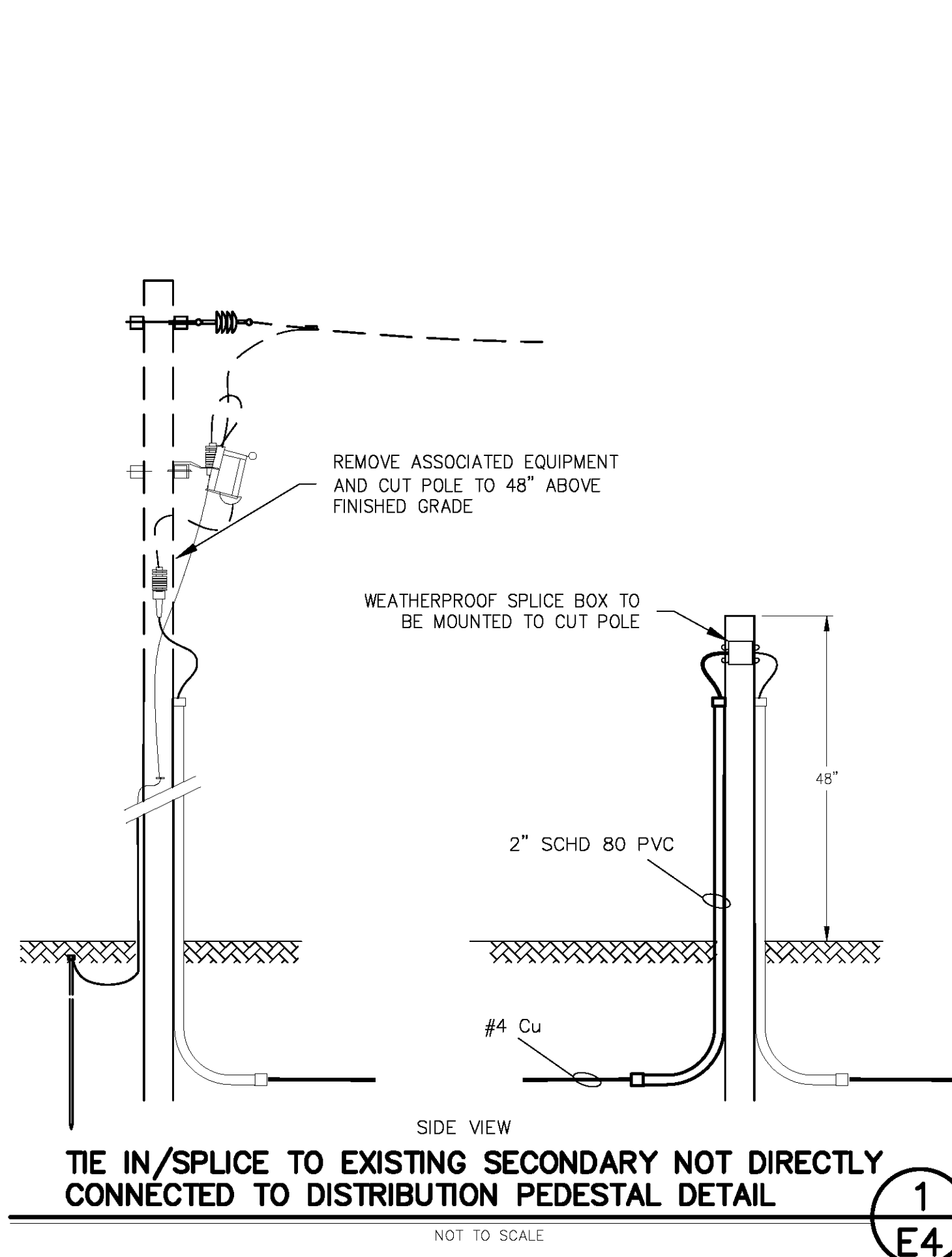




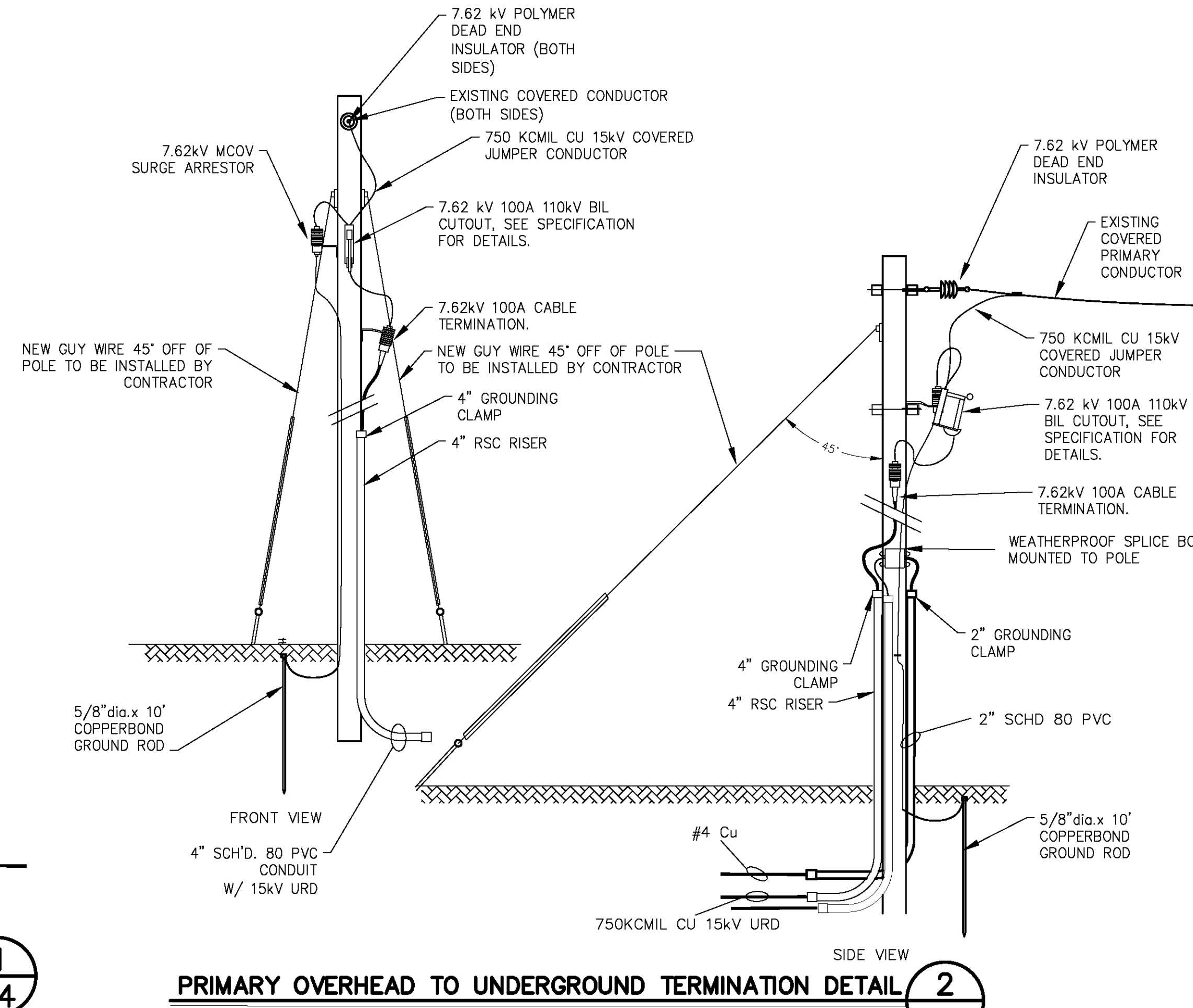
NO.	DATE	REVISIONS DESCRIPTION	BY	DESIGNED BY AI	CHECKED BY CB	DRAWN BY AI

**PROJECT DESCRIPTION**  
LAKE LUZERNE CAMPGROUND  
ELECTRIC SYSTEM IMPROVEMENTS  
**SITE PLAN III**

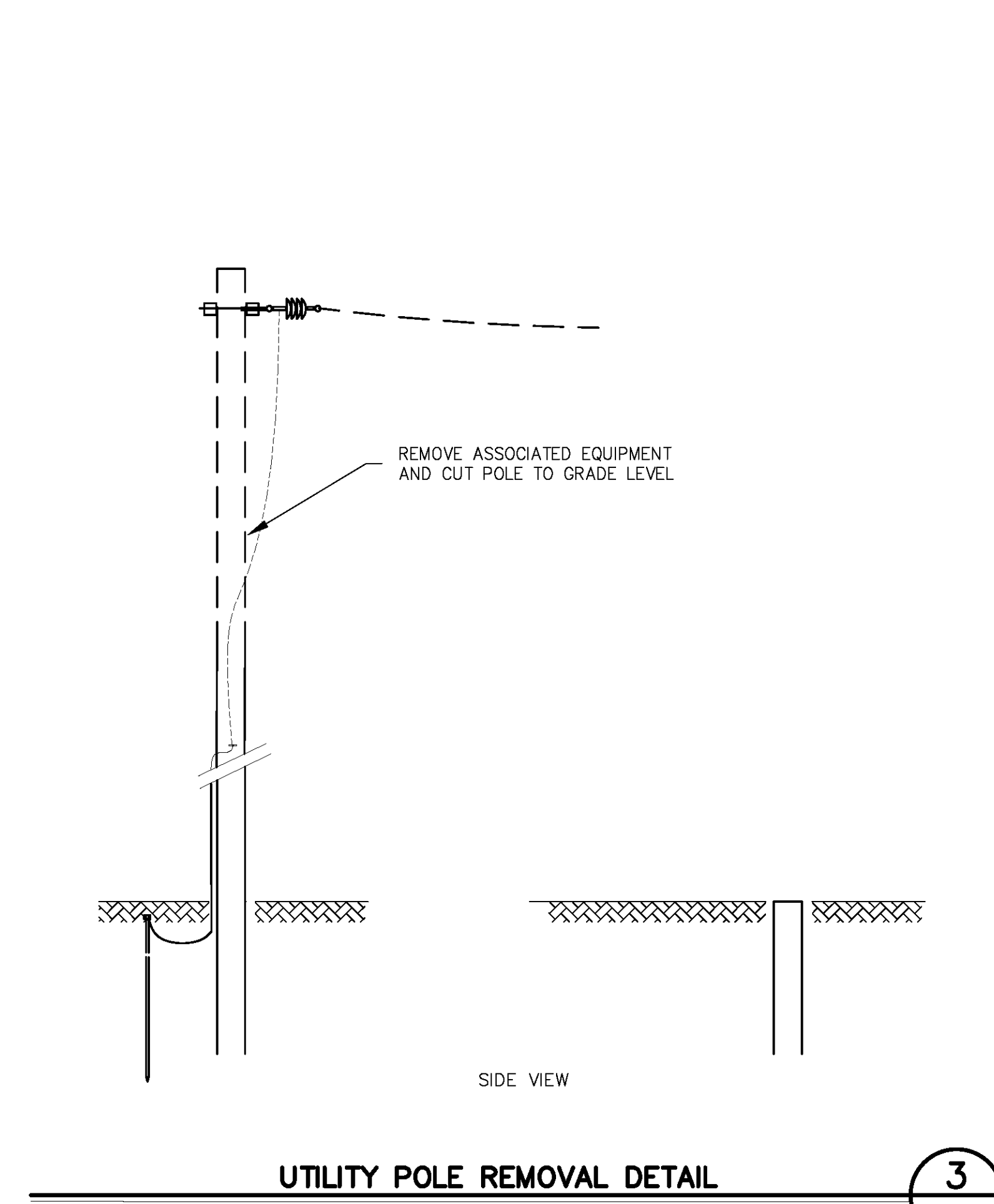
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<b>FACILITY NO.</b>	0033
<b>PROJECT NO.</b>	71341
<b>DATE</b>	APR. 2024
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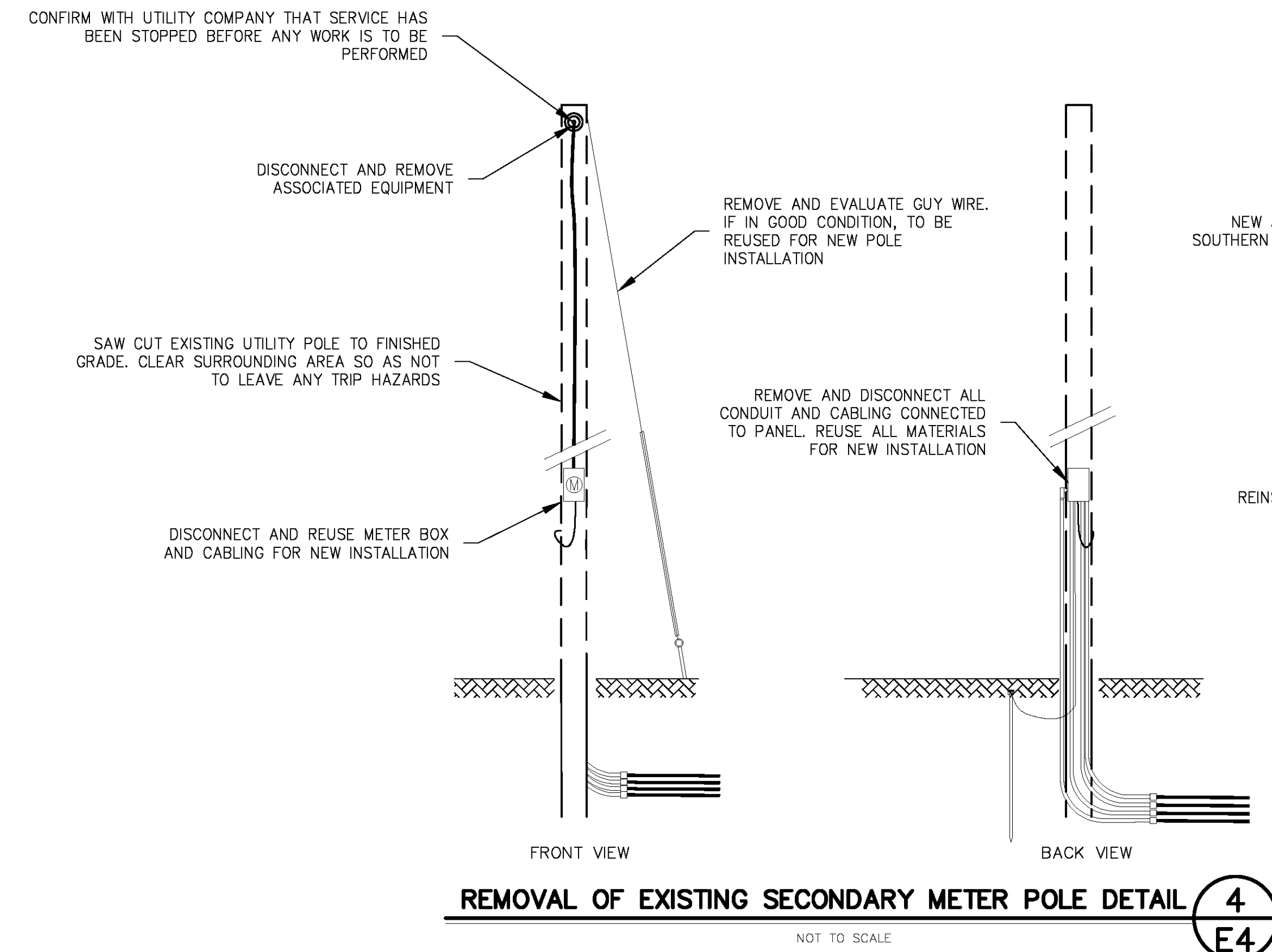
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E4



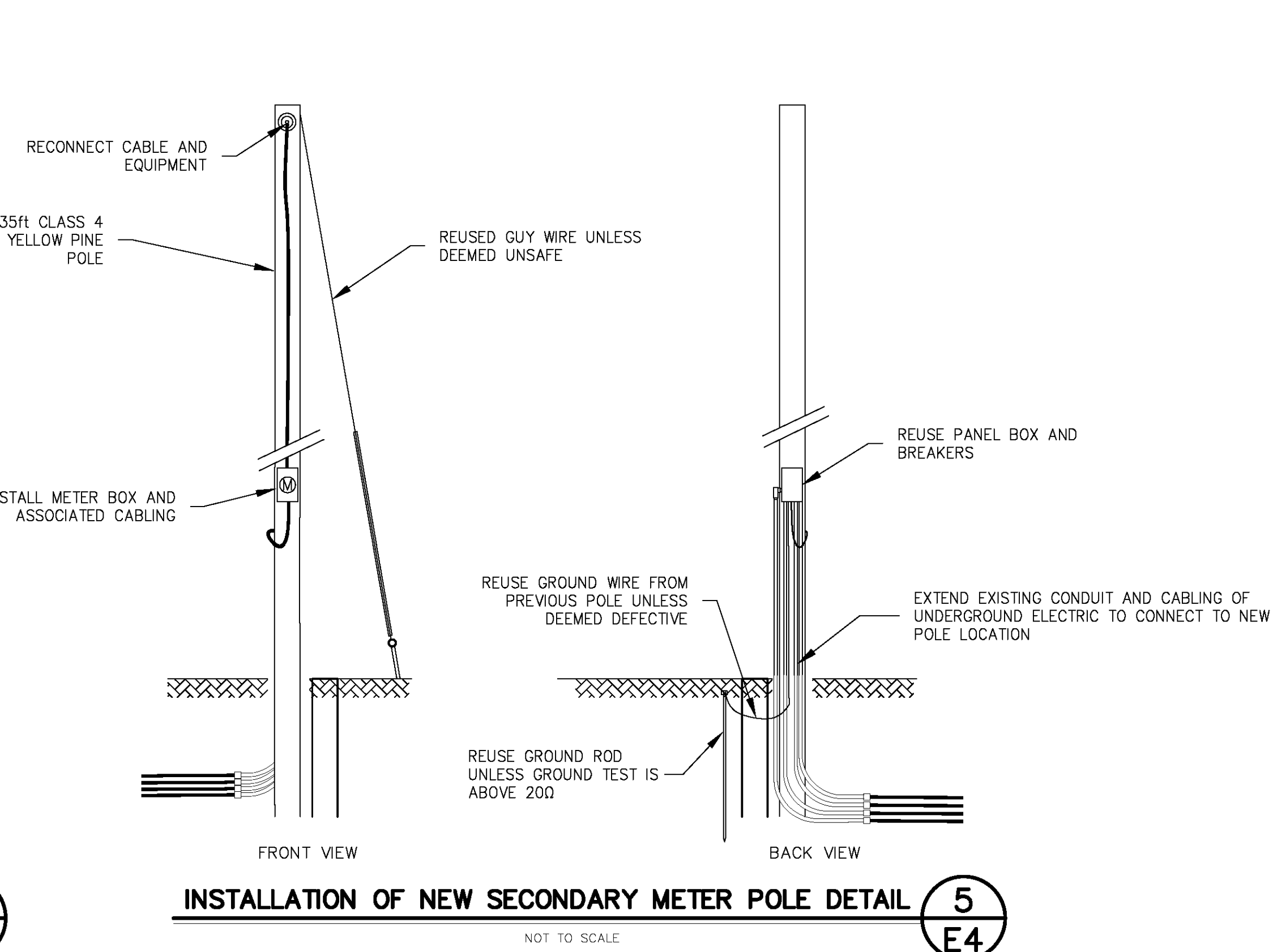
2  
E4



3  
E4



4  
E4



5  
E4

REVISIONS	NO.	DATE	DESCRIPTION	DESIGNED	CHECKED	DRAWN
				BY AI	BY CB	BY AI

PROJECT DESCRIPTION  
LAKE LUZERNE CAMPGROUND  
ELECTRIC SYSTEM IMPROVEMENTS  
MISCELLANEOUS ELECTRICAL  
DETAILS 1 OF 3

FACILITY NAME	LAKE LUZERNE CAMPGROUND
FACILITY NO.	0033
PROJECT NO.	71341
DATE	APR. 2024
SCALE	AS NOTED
DRAWING NO.	E4

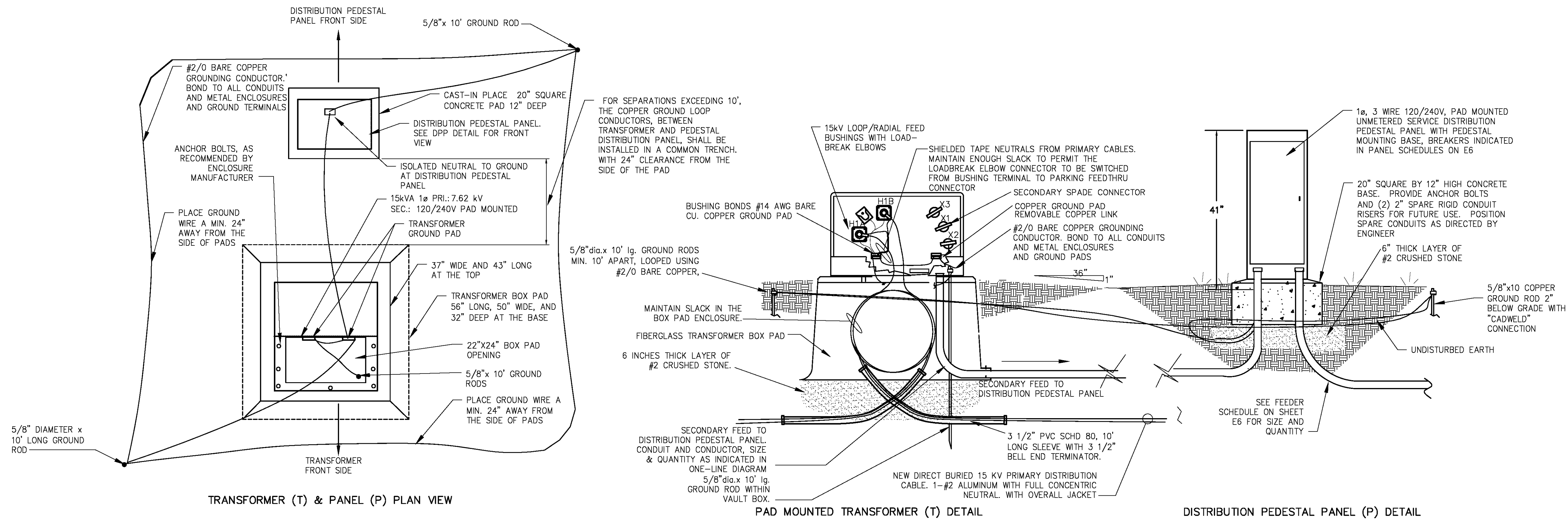
DESIGNED BY	CHECKED BY	DRAWN BY
AI	CB	AI

NO.	DATE	DESCRIPTION

PROJECT DESCRIPTION  
LAKE LUZERNE CAMPGROUND  
ELECTRIC SYSTEM IMPROVEMENTS  
MISCELLANEOUS ELECTRICAL  
DETAILS 2 OF 3

FACILITY NAME	LAKE LUZERNE CAMPGROUND
FACILITY NO.	0033
PROJECT NO.	71341
DATE	APR. 2024
SCALE	AS NOTED
DRAWING NO.	E5



**PAD MOUNTED TRANSFORMER, SECONDARY DISTRIBUTION PEDESTAL PANEL DETAIL (TYP.)** 1/E5  
NOT TO SCALE

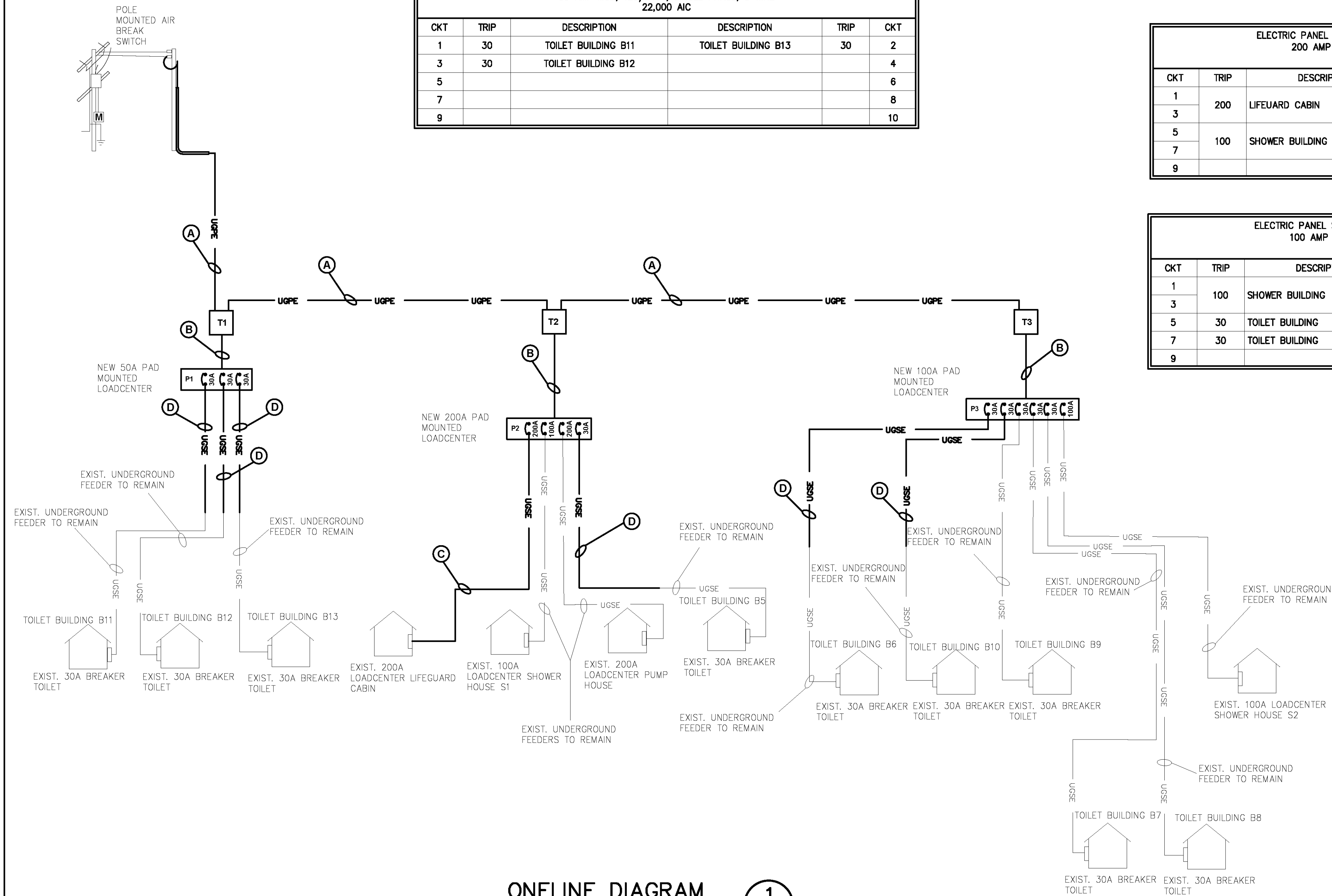
TRANSFORMER SCHEDULE			
TRANSFORMER	KVA	PRIMARY VOLTAGE	SECONDARY VOLTAGE
T1	15	7620	120/240V
T2	100	7620	120/240V
T3	50	7620	120/240V

ELECTRIC PANEL SCHEDULE - DISTRIBUTION PEDESTAL PANEL P1 50 AMP MCB, 120/240V, SINGLE PHASE, 3 WIRE 22,000 AIC					
CKT	TRIP	DESCRIPTION	DESCRIPTION	TRIP	CKT
1	30	TOILET BUILDING B11	TOILET BUILDING B13	30	2
3	30	TOILET BUILDING B12			4
5					6
7					8
9					10

FEEDER SCHEDULE		
SYMBOL	FEEDER TYPE (UNDERGROUND)	RACEWAY (UNLESS OTHERWISE NOTED)
A	15KV URD FULL CONCENTRIC NEUTRAL CU 750 KCML SUITABLE FOR DIRECT BURY	3 1/2" SCHEDULE 80 PVC (TO EXTEND 10' LENGTH AFTER SWEEP ELBOW ONLY)
B	3W Cu#3/0 USE	3 1/2" SCHEDULE 80 PVC
C	3W Cu#2/0 USE	2 1/2" SCHEDULE 80 PVC (TO EXTEND 10' LENGTH AFTER SWEEP ELBOW ONLY)
D	3W Cu#4 USE	2" SCHEDULE 80 PVC

ELECTRIC PANEL SCHEDULE - DISTRIBUTION PEDESTAL PANEL P2 200 AMP MCB, 120/240V, SINGLE PHASE, 3 WIRE 22,000 AIC					
CKT	TRIP	DESCRIPTION	DESCRIPTION	TRIP	CKT
1					2
3	200	LIFEGUARD CABIN	PUMP HOUSE	200	4
5	100	SHOWER BUILDING	TOILET BUILDING	30	6
7					8
9					10

ELECTRIC PANEL SCHEDULE - DISTRIBUTION PEDESTAL PANEL P3 100 AMP MCB, 120/240V, SINGLE PHASE, 3 WIRE 22,000 AIC					
CKT	TRIP	DESCRIPTION	DESCRIPTION	TRIP	CKT
1					2
3	100	SHOWER BUILDING	TOILET BUILDING	30	4
5	30	TOILET BUILDING	TOILET BUILDING	30	6
7	30	TOILET BUILDING			8
9					10



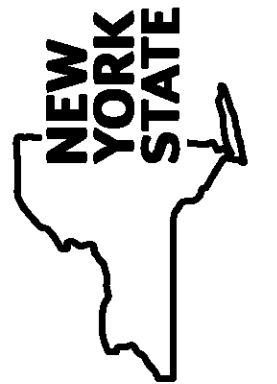
**ONELINE DIAGRAM**

NOT TO SCALE

1  
E6

POLE REMOVAL TABLE	
CUT TO GRADE	CUT TO 48"
P-4	P-6
P-5	P-11
P-7	P-17
P-8	P-18
P-9	P-24
P-10	
P-12	
P-13	
P-14	
P-15	
P-16	
P-19	
P-20	
P-21	
P-22	
P-23	
P-25	
P-26	

Department of  
Environmental  
Conservation



DIVISION OF OPERATIONS  
BUREAU OF DESIGN AND CONSTRUCTION

REVISIONS	NO.	DATE	DESCRIPTION	BY	DESIGNED	CHECKED	DRAWN
					BY AI	BY CB	BY AI

PROJECT DESCRIPTION  
LAKE LUZERNE CAMPGROUND  
ELECTRIC SYSTEM IMPROVEMENTS  
MISCELLANEOUS ELECTRICAL  
DETAILS 3 OF 3

FACILITY NAME	LAKE LUZERNE CAMPGROUND
FACILITY NO.	0033
PROJECT NO.	71341
DATE	APR. 2024
SCALE	AS NOTED
DRAWING NO.	E6