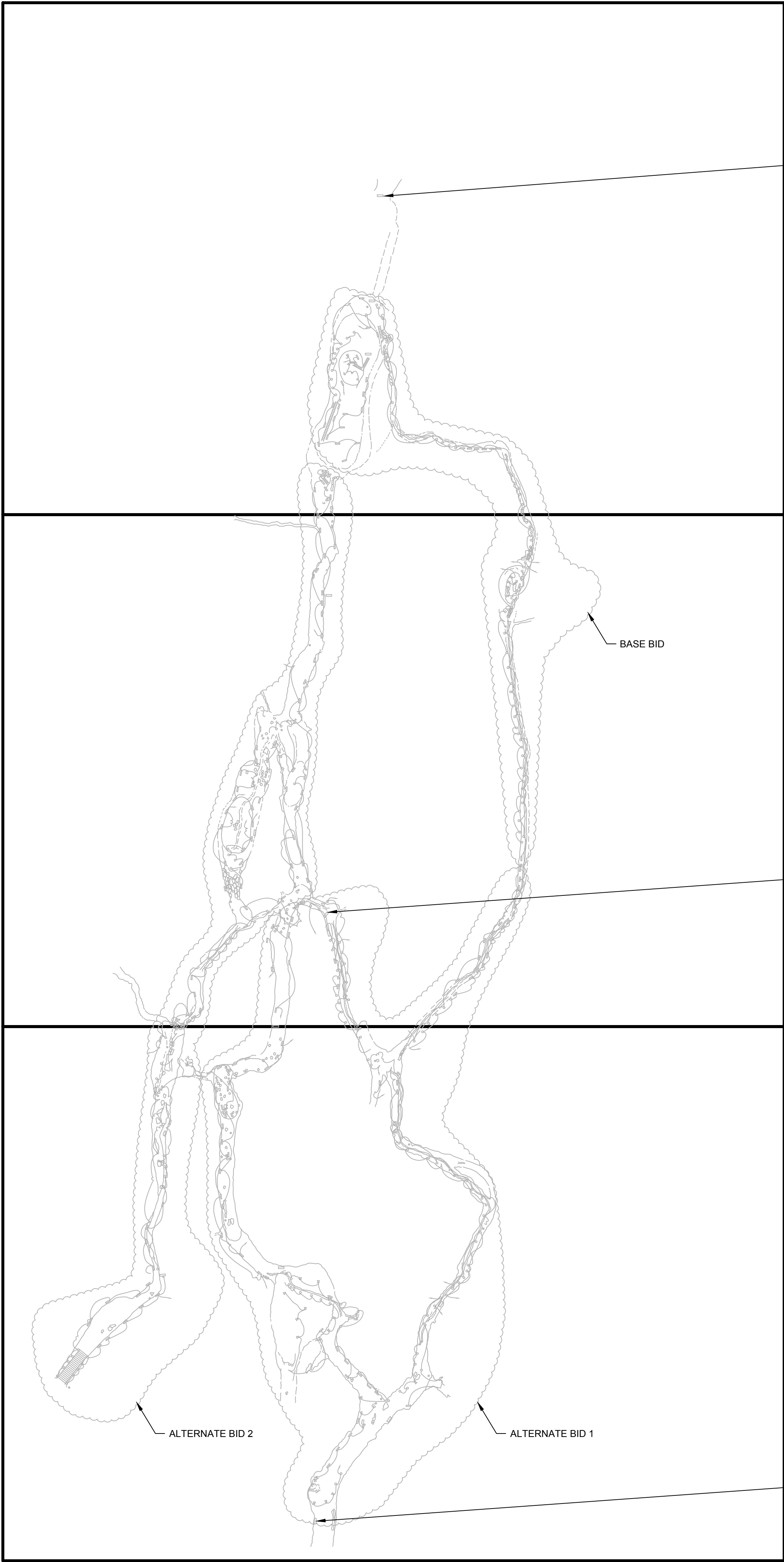


GENERAL NOTES:

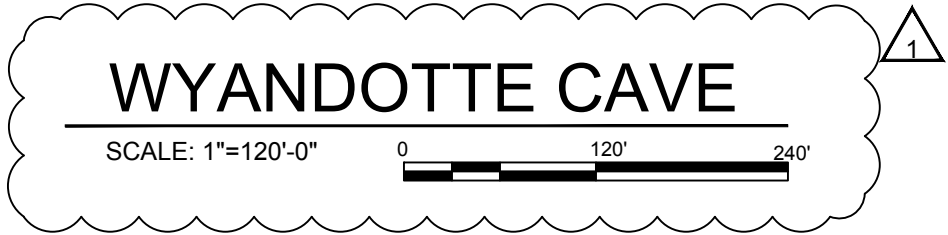
1. THE PARK STAFF HAVE SPENT A LOT OF TIME AND MONEY TO MAKE ARTIFICIAL SHROUDS, COVERS, GROUTING, STACKING ROCKS AND OTHER EFFORTS TO CONCEAL THE ELECTRICAL WORK AND HAVE THE CAVE APPEAR IN ITS NATURAL STATE AS MUCH AS POSSIBLE. THE WORK OF THIS CONTRACT SHALL PRESERVE AS MUCH OF THEIR EFFORTS AS POSSIBLE. PARK STAFF SHALL RECONCEAL THE ELECTRICAL WORK AFTER MODIFICATIONS ARE COMPLETED, AS LONG AS THE CONTRACTOR IS MAKING EFFORTS TO MINIMIZE THE DAMAGE TO EXISTING CONDITIONS.



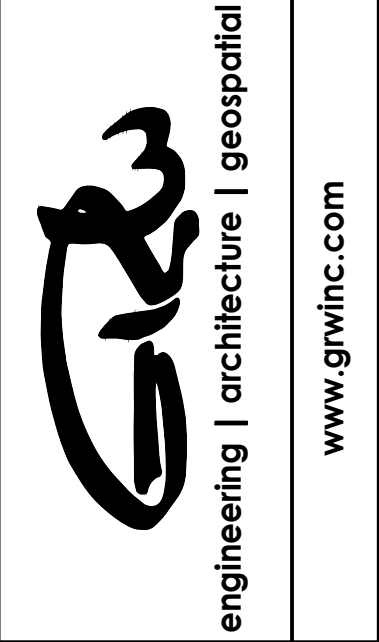
ELECTRIC SERVICE FOR  
BASE BID WORK ON  
SURFACE ABOVE CAVE  
IN THIS APPROXIMATE  
LOCATION

ELECTRIC SERVICE FOR  
ALTERNATE BID 2 WORK  
ON SURFACE ABOVE  
CAVE IN THIS  
APPROXIMATE  
LOCATION

ELECTRIC SERVICE FOR  
ALTERNATE BID 1 WORK  
ON SURFACE ABOVE  
CAVE IN THE  
SEISMOGRAPH BUILDING



GRW PROJECT NO. 4495-25  
CLIENT PROJECT NO. XXXX  
ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF GRW ENGINEERS, INC.



WYANDOTTE CAVE -  
OVERALL KEY PLAN  
WYANDOTTE CAVE (LARGE)  
LEAVENWORTH, INDIANA

DESIGNED	DRC
DRAWN	RHR
REVIEWED	WLM
APPROVED	WLM

NO.	REVISIONS	DATE	BY
1	CHANGED SCALE FROM 1"=60' TO 1"=120'	10/23	DAC

DATE: SEPTEMBER 2018  
SCALE: 1"=120'  
SHEET NO. E-101

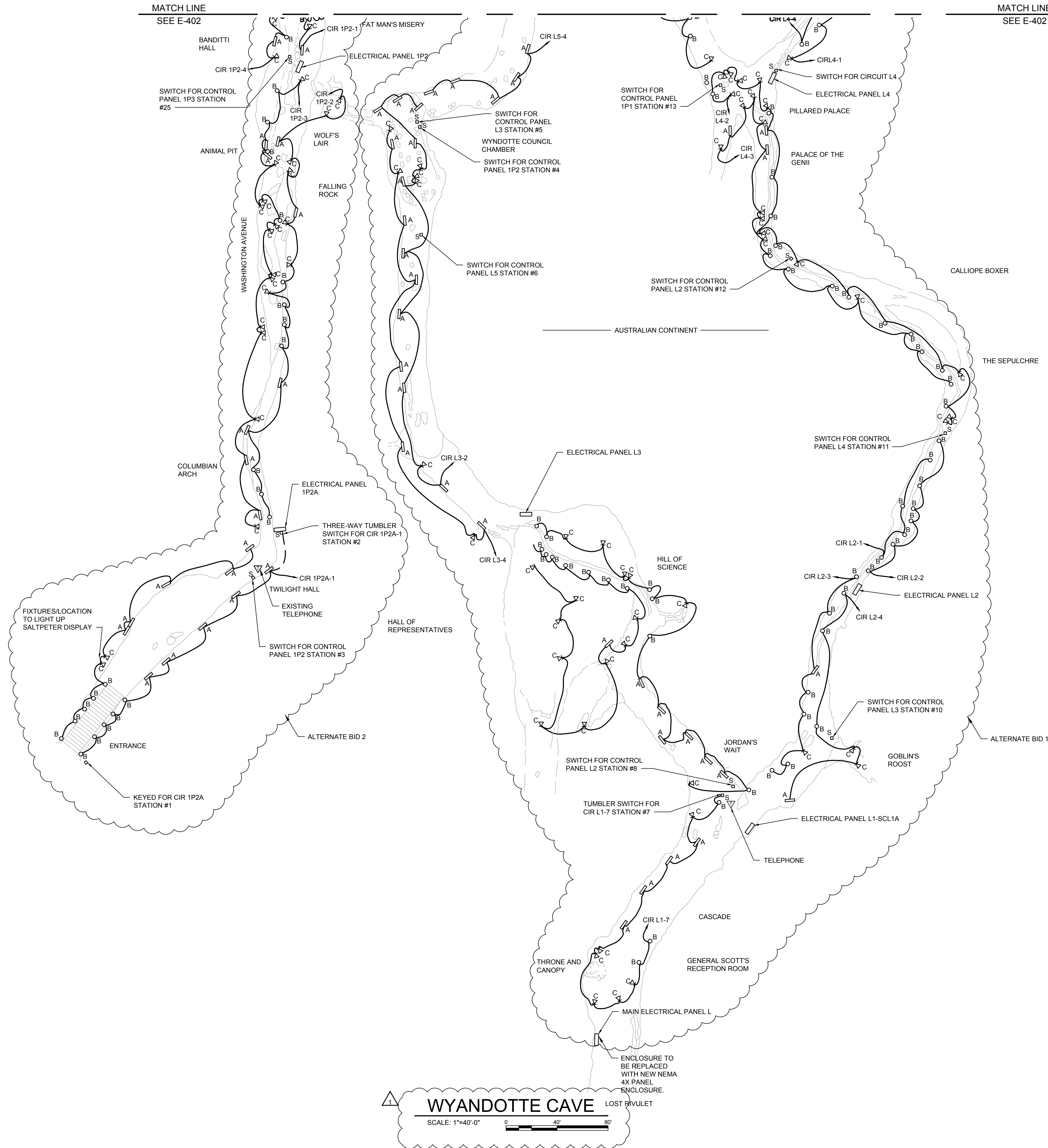


**SYMBOLS:**

- EXISTING STRIP
- A FLUORESCENT FIXTURE
- B EXISTING FLOOD LIGHT
- C EXISTING AIMABLE FLOOD LIGHT
- LED STEP LIGHT
- EXISTING LIGHT SWITCH
- EXISTING LIGHTING CONTROL PANEL
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED NM CABLE (TYPICAL)

**GENERAL NOTE:**

- ALL A, B, C, AND D DESIGNATED EXISTING LIGHT FIXTURES ON THIS DRAWING SHALL BE REMOVED AND REPLACED.
- ALL EXISTING ELECTRICAL LIGHTING WIRING SHALL BE REMOVED AND REPLACED.
- ALL EXISTING WIRE IN CONDUIT BETWEEN FEEDERS TO REMAIN.
- ALL EXISTING TELEPHONES SHALL BE REMOVED.
- ALL NM CABLE SHALL BE REMOVED THROUGHOUT THE CAVE.
- ALL EXISTING PANELS SHALL REMAIN UNLESS OTHERWISE NOTED.
- ALL EXISTING SWITCHES AND PUSHBUTTON CONTROLS TO BE REPLACED IN KIND.



GRW PROJECT NO. 4495-25  
CLIENT PROJECT NO. XXXX  
ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF GRW ENGINEERS, INC. AND SHALL NOT BE USED FOR ANY OTHER PROJECT OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION.

**GRW**  
engineering | architecture | geospatial  
www.grwinc.com

**WYANDOTTE CAVE -  
ENTRANCE OF CAVE DEMOLITION  
WYANDOTTE CAVE (LARGE)  
LEAVENWORTH, INDIANA**

REVISIONS	DATE	BY	DESCRIPTION	DESIGNED	DRC	REVIEWED	APPROVED
1	10/23	DAC	CHANGED SCALE FROM 1"=20' TO 1"=40'				

DATE: SEPTEMBER 2018  
SCALE: 1"=40'  
SHEET NO. E-401



SYMBOLS:

- STRIP FLUORESCENT FIXTURE

A

FLOOD LIGHT

C

AIMABLE FLOOD LIGHT

D

LED STEP LIGHT

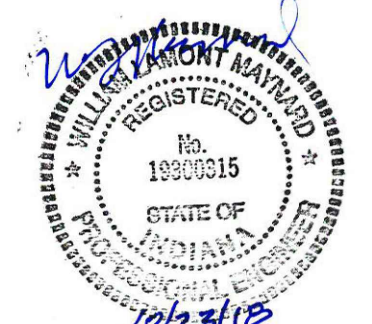
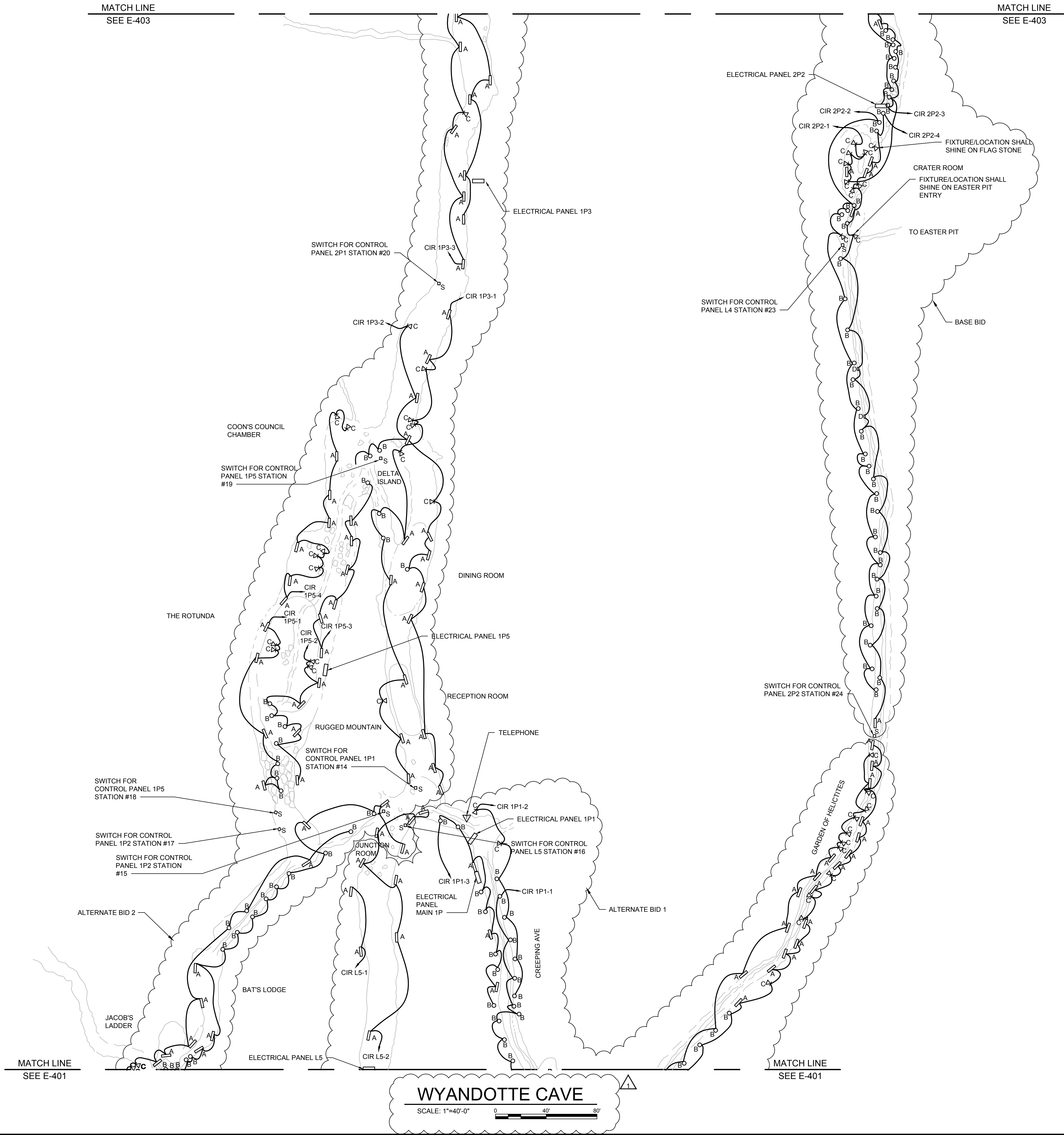
LIGHT SWITCH

LIGHTING CONTROL PANEL

RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED NM CABLE (TYPICAL)

GENERAL NOTE:

- ALL A, B, C, AND D DESIGNATED EXISTING LIGHT FIXTURES ON THIS DRAWING SHALL BE REMOVED AND REPLACED.
- ALL EXISTING ELECTRICAL LIGHTING WIRING SHALL BE REMOVED AND REPLACED.
- ALL EXISTING WIRE IN CONDUIT BETWEEN FEEDERS TO REMAIN.
- ALL EXISTING TELEPHONES SHALL BE REMOVED.
- ALL NM CABLE SHALL BE REMOVED THROUGHOUT THE CAVE.
- ALL EXISTING PANELS SHALL REMAIN UNLESS OTHERWISE NOTED.
- ALL EXISTING SWITCHES AND PUSHBUTTON CONTROLS TO BE REPLACED IN KIND.



GRW PROJECT NO. 4495-25
CLIENT PROJECT NO. XXXX
ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF GRW ENGINEERS, INC. AND SHALL NOT BE USED FOR ANY OTHER PROJECT OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION.

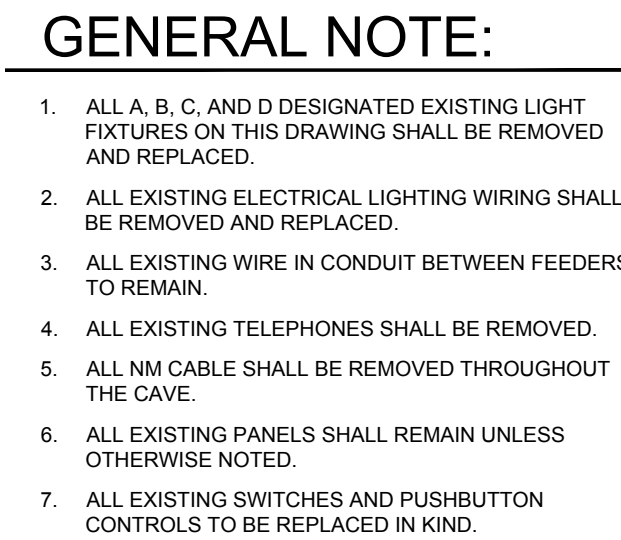
engineering | architecture | geospatial

www.grwinc.com

WYANDOTTE CAVE -  
 MIDDLE OF CAVE DEMOLITION  
 WYANDOTTE CAVE (LARGE)  
 LEAVENWORTH, INDIANA

DESIGNED:				DRC			
DRAWN				RHR			
REVIEWED:				WLM			
APPROVED:				WLM			
REVISIONS							
NO.	DESCRIPTION	DATE	BY				
1	CHANGED SCALE FROM 1"=20' TO 1"=40'	10/23	DAC				
SCALE CHECK: _____ THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED							

DATE: SEPTEMBER 2018  
 SCALE: 1"=40'  
 SHEET NO. E-402

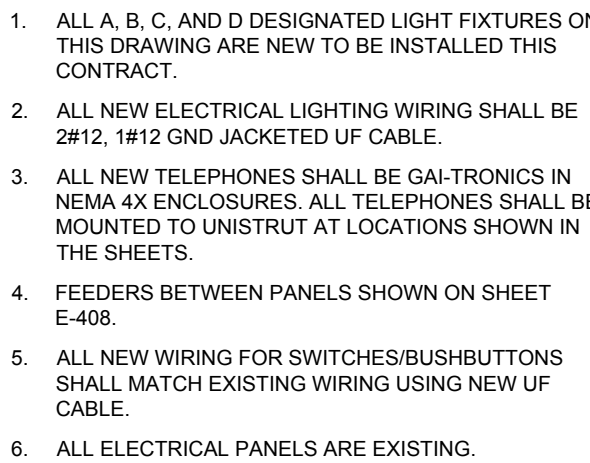


DATE:	SEPTEMBER 2018
SCALE:	1"=40'
SHEET NO.	E-403







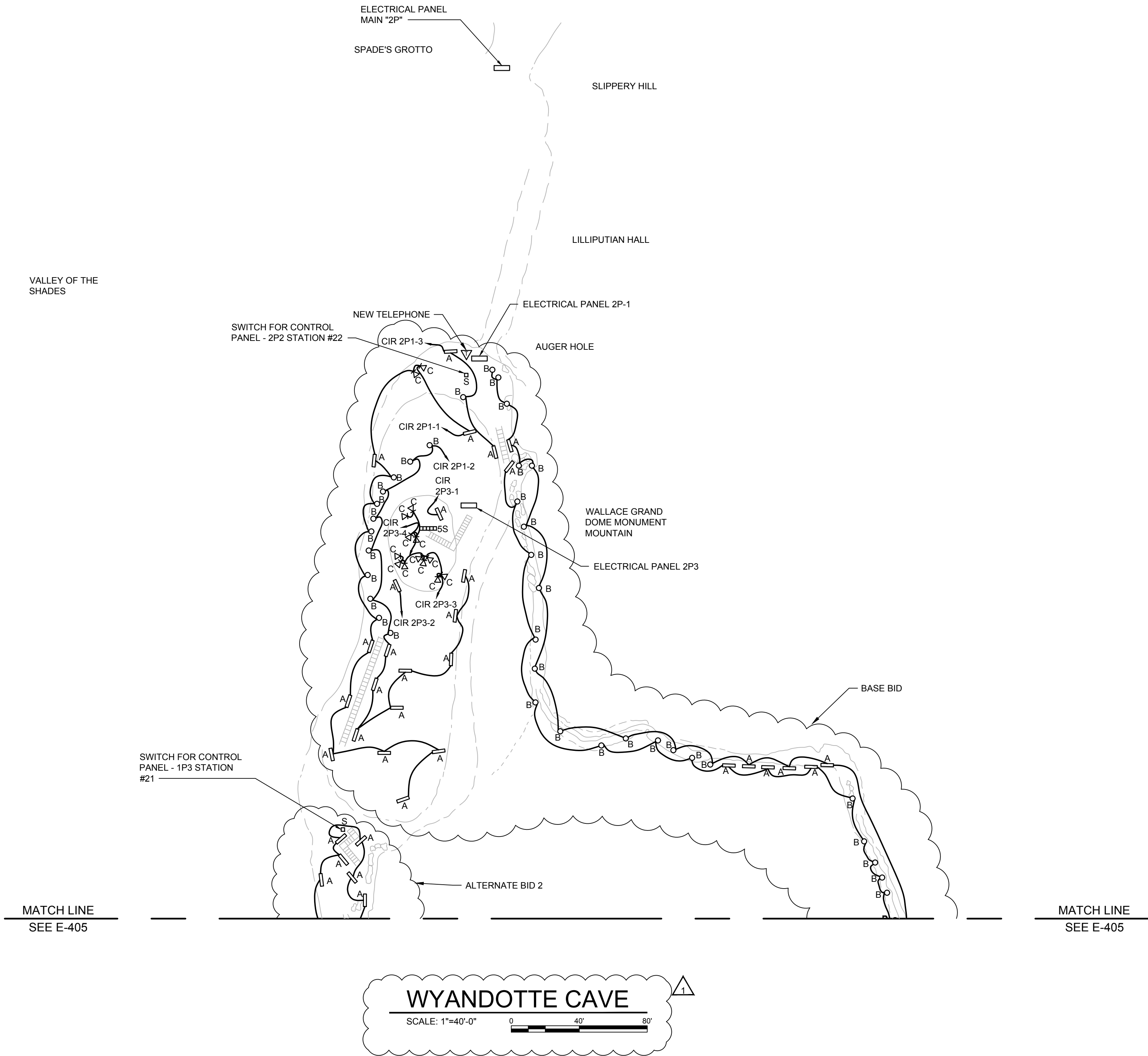


SYMBOLS:

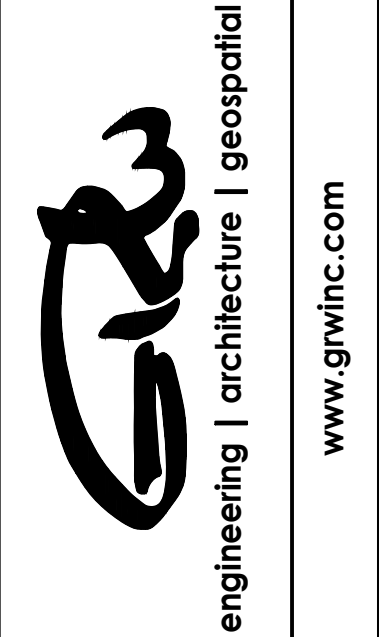
- STRIP FLUORESCENT FIXTURE  
FLOOD LIGHT  
AIMABLE FLOOD LIGHT  
LIGHT SWITCH  
LIGHTING CONTROL  
PANEL L-1, L-2, OR L-3  
RUN OF 12-2 W/ GROUND  
COPPER GRAY JACKETED  
UF CABLE (TYPICAL)

GENERAL NOTE:

1. ALL A, B, AND C DESIGNATED LIGHT FIXTURES ON THIS DRAWING ARE NEW TO BE INSTALLED THIS CONTRACT.  
2. ALL NEW ELECTRICAL LIGHTING WIRING SHALL BE 2#12, 1#12 GND JACKETED UF CABLE.  
3. ALL NEW TELEPHONES SHALL BE GAI-TRONICS IN NEMA 4X ENCLOSURES. ALL TELEPHONES SHALL BE MOUNTED TO UNISTRUT AT LOCATIONS SHOWN IN THE SHEETS.  
4. FEEDERS BETWEEN PANELS SHOWN ON SHEET E-409.  
5. ALL NEW WIRING FOR SWITCHES/BUSHBUTTONS SHALL MATCH EXISTING WIRING USING NEW UF CABLE.  
6. ALL ELECTRICAL PANELS ARE EXISTING.



GRW PROJECT NO. 4495-25  
CLIENT PROJECT NO. XXXX  
ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF GRW ENGINEERS, INC. AND SHALL NOT BE USED FOR ANY OTHER PROJECT OTHER THAN THIS SPECIFIC PROJECT WITHOUT THE WRITTEN PERMISSION.



WYANDOTTE CAVE  
END OF CAV NEW LIGHTING  
WYANDOTTE CAVE (LARGE)  
LEAVENWORTH, INDIANA

DESIGNED		DRC	
BY		DRAWN	
DATE		REVIEWED	
10/23		APPROVED	
DESCRIPTION		SCALE CHECK	
CHANGED SCALE FROM 1"=20' TO 1"=40'		THIS MARK SHOULD MEASURE EXACTLY 1" WHEN PLOTTED	

DATE: SEPTEMBER 2018  
SCALE: 1"=40'  
SHEET NO. E-406







SYMBOLS:

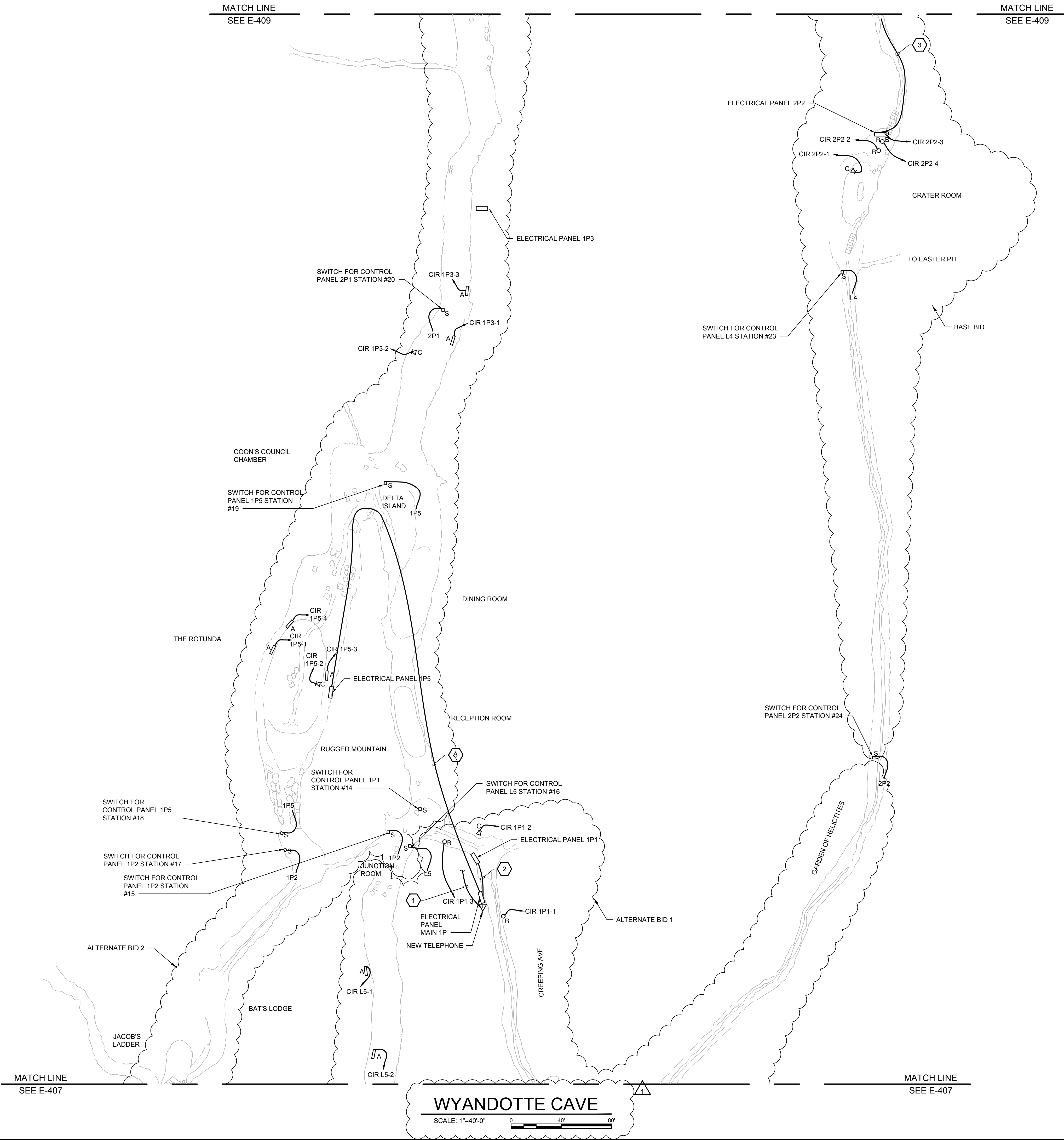
- 1X8 LED LIGHT  
LED FLOOD LIGHT  
LED AIMABLE FLOOD LIGHT  
LED STEP LIGHT  
LIGHT SWITCH  
LIGHTING CONTROL PANEL  
RUN OF 12-2 W/ GROUND  
COPPER GRAY JACKETED UF CABLE (TYPICAL)

GENERAL NOTE:

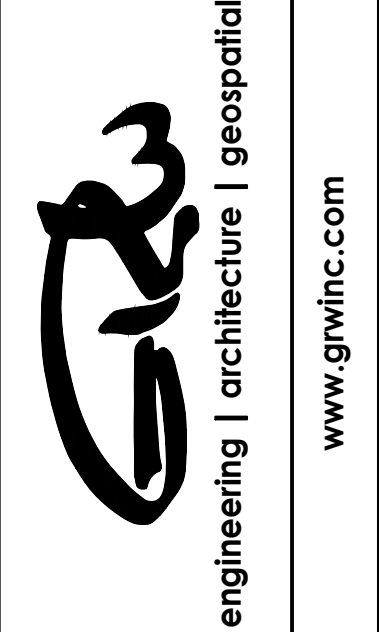
1. ALL A, B, C, AND D DESIGNATED LIGHT FIXTURES ON THIS DRAWING ARE NEW TO BE INSTALLED THIS CONTRACT.  
2. ALL NEW ELECTRICAL LIGHTING WIRING SHALL BE 2#12, 1#12 GND JACKETED UF CABLE.  
3. ALL NEW TELEPHONES SHALL BE GAL-TRONICS IN NEMA 4X ENCLOSURES. ALL TELEPHONES SHALL BE MOUNTED TO UNISTRUT AT LOCATIONS SHOWN IN THE SHEETS.

SHEET KEYNOTES:

1. NEW CAT 6 INTERLOCK ARMORED CABLE TO NEW GAL-TRONICS NEMA 4X RUGGED TELEPHONE FROM NEW TELEPHONE ACCESS POINT LOCATED AT ALTERNATE 2 SERVICE DROP.  
2. 3#4, 1#6 GND, 1 1/4" SCHEDULE 80 PVC  
3. 3#1, 1#10 GND, 1 1/2" SCHEDULE 80 PVC



GRW PROJECT NO. 4495-25  
CLIENT PROJECT NO. XXXX  
ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF GRW ENGINEERS, INC.



WYANDOTTE CAVE -  
MIDDLE OF CAVE NEW POWER  
WYANDOTTE CAVE (LARGE)  
LEAVENWORTH, INDIANA

DESIGNED		BY	
DRC		DAG	
DATE		DATE	
10/23		10/23	
DESCRIPTION		DESCRIPTION	
CHANGED SCALE FROM 1"=20' TO 1"=40'		DAG	
NO.		NO.	
1		1	
REVIEWED		REVIEWED	
RHR		WLM	
APPROVED		APPROVED	
WLM		WLM	

DATE: SEPTEMBER 2018  
SCALE: 1"=40'  
SHEET NO. E-408



SYMBOLS:

- A

STRIP FLUORESCENT FIXTURE
- B

FLOOD LIGHT
- C

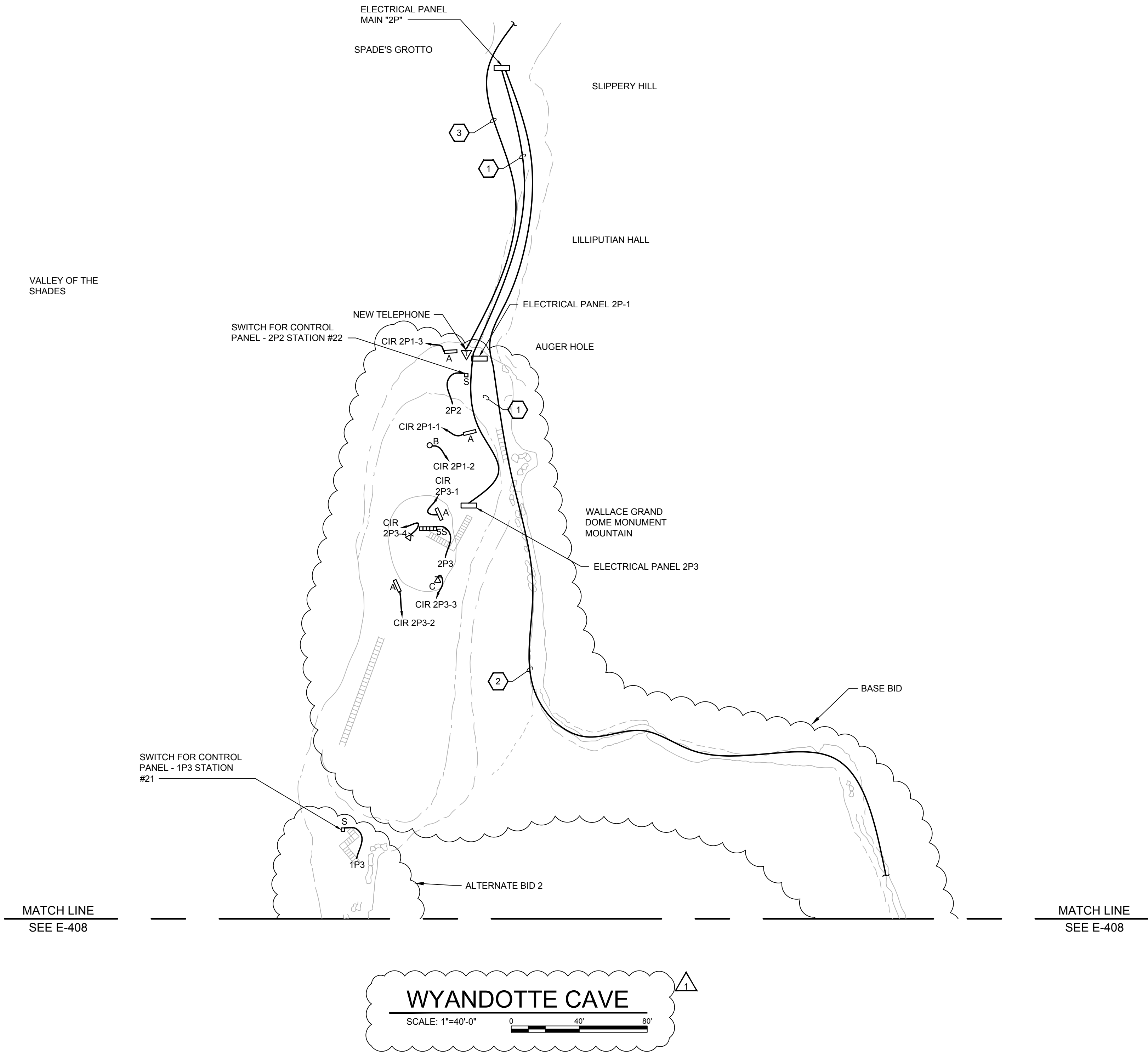
AIMABLE FLOOD LIGHT
- LIGHT SWITCH
- LIGHTING CONTROL PANEL L-1, L-2, OR L-3
- RUN OF 12-2 W/ GROUND COPPER GRAY JACKETED UF CABLE (TYPICAL)

GENERAL NOTE:

- ALL A, B, AND C DESIGNATED LIGHT FIXTURES ON THIS DRAWING ARE NEW TO BE INSTALLED THIS CONTRACT.
- ALL NEW ELECTRICAL LIGHTING WIRING SHALL BE 2#12, 1#12 GND JACKETED UF CABLE.
- ALL NEW TELEPHONES SHALL BE GAL-TRONICS IN NEMA 4X ENCLOSURES. ALL TELEPHONES SHALL BE MOUNTED TO UNISTRUT AT LOCATIONS SHOWN IN THE SHEETS.

SHEET KEYNOTES:

- 3#6, 1#10 1" SCHEDULE 80 PVC
- 3#10, 1#10 GND 3/4" SCHEDULE 80 PVC
- NEW CAT 6 INTERLOCK ARMORED CABLE TO NEW GAL-TRONICS NEMA 4X RUGGED TELEPHONE FROM NEW TELEPHONE ACCESS POINT LOCATED AT BASE BID SERVICE DROP.



GRW PROJECT NO. 4495-25

CLIENT PROJECT NO. XXXX

ALL RIGHTS RESERVED. NO PART OF THIS DOCUMENT MAY BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF GRW ENGINEERS, INC. AND SHALL NOT BE REPRODUCED IN WHOLE OR IN PART WITHOUT THE WRITTEN PERMISSION OF GRW ENGINEERS, INC.

engineering | architecture | geospatial

www.grwinc.com

WYANDOTTE CAVE

END OF CAV NEW POWER

WYANDOTTE CAVE (LARGE)

LEAVENWORTH, INDIANA

DESIGNED		BY		DATE		DESCRIPTION	
DRC		DAC		10/23		CHANGED SCALE FROM 1"=20' TO 1"=40'	
RHR							
WLM							
WLM							

DATE: SEPTEMBER 2018

SCALE: 1"=40'

SHEET NO. E-409