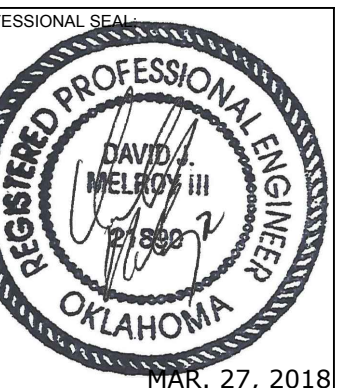


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CONSULTANT LOGO:



CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
BID PACKAGE 02
(100% SET)

Table with 3 columns: #, DATE, DESCRIPTION. Revisions section.

DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

E0.0

SYMBOL LIST

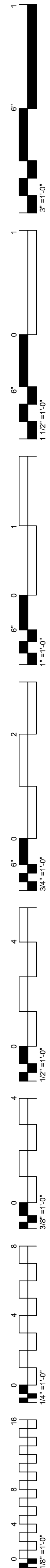
ELECTRICAL SYMBOL LIST

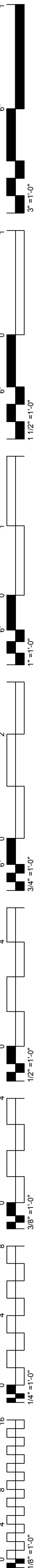
NOTE: THIS IS A MASTER SCHEDULE. NOT ALL SYMBOLS AND/OR ABBREVIATIONS CONTAINED HEREIN MAY APPEAR ON THE DRAWINGS.

Main table of electrical symbols and their descriptions, including categories like Fluorescent Fixture, Incandescent, Transformer, and various switches and outlets.

DRAWING INDEX

Table with columns: SHEET NUMBER, SHEET TITLE, and a grid for drawing index. Includes sheets E0.0 through EFS115 and a TOTAL row.





FOOD SERVICE SYSTEM NOTES

1. THESE DRAWINGS INDICATE ELECTRICAL POWER FEEDS ONLY TO FOOD SERVICE EQUIPMENT AND SYSTEMS. SEE KITCHEN DRAWINGS (K- SERIES) PREPARED BY THE FOOD SERVICE CONSULTANT FOR EXPLANATIONS OF LOADS, SYMBOLS, MOUNTING HEIGHTS, ETC., AND FOR ADDITIONAL ELECTRICAL REQUIREMENTS NOT INDICATED ON THESE DRAWINGS, INCLUDING:
 - EXTENSIONS TO EQUIPMENT FROM OUTLET BOXES, SPECIALTY RECEPTACLES, CORD SETS, MULTIPLE CONNECTIONS FROM SINGLE OUTLETS, POWER AND CONTROL INTER-CONNECTIONS FROM COMPRESSOR RACK TO FIELD EQUIPMENT AND MISCELLANEOUS POWER AND CONTROL INTERCONNECTIONS.
2. REFERENCE OVERALL FOOD SERVICE DRAWINGS FOR DESCRIPTIONS OF EQUIPMENT AND SYSTEMS.
3. ALL CONDUIT STUB-UPS, AS INDICATED ON THE KITCHEN EQUIPMENT DRAWINGS, SHALL BE ROUTED BELOW FINISHED FLOOR, 3/4" MINIMUM, UNLESS OTHERWISE NOTED AS LARGER.
4. ALL RECEPTACLES WITHIN FOOD SERVICE AREAS SHALL BE SELF TESTING 'GFCI' TYPE.
5. ALL DEVICE COVER PLATES SHALL BE STAINLESS STEEL.
6. PROVIDE "TAYMAC" #51/2G SERIES WEATHERPROOF RECESSED RECEPTACLE COVERS FOR ALL ABOVE COUNTER RECEPTACLES IN BAR AND SINK AREAS.
7. FINAL CONNECTION TO ALL KITCHEN EQUIPMENT SHALL BE MADE WITH 'SEAL-TITE' FLEXIBLE CONDUIT.
8. PROVIDE MOISTURE PROOF SEAL-OFFS FOR ALL CONDUITS ENTERING/LEAVING COOLER AND FREEZER BOXES. ASSEMBLE, INSTALL AND LAMP LIGHTING FIXTURES AND WIRING DEVICES PROVIDED WITH COOLERS AND FREEZERS. PROVIDE COMPLETE INTERNAL CIRCUITING AND CONNECTIONS.
9. PROVIDE POWER INTERCONNECTION BETWEEN FREEZER FAN COILS / DEFROST HEATERS AND COMPRESSOR RACKS. MINIMUM CIRCUITING = 5 #12, 1'C. CONFIRM REQUIREMENTS PRIOR TO ROUGH-IN.
10. ALL EQUIPMENT LOCATED BELOW THE EXHAUST HOOD(S) WITHIN FOOD PREPARATION AREAS SHALL BE INTERLOCKED WITH THE HOOD FIRE SUPPRESSION SYSTEM TO SHUNT POWER TO THIS EQUIPMENT UPON ACTIVATION OF THE FIRE SYSTEM. FOR ALL BRANCH CIRCUITS SERVING ELECTRICALLY-OPERATED EQUIPMENT POSITIONED BENEATH THE EXHAUST HOOD(S), THIS MAY BE ACCOMPLISHED WITH THE USE OF SHUNT-TRIP TYPE CIRCUIT BREAKERS, A CONTACTOR- CONTROLLED PANELBOARD(S), OR LOOSE CONTACTORS MOUNTED WITHIN A NEMA 4X ENCLOSURE (POSITIONED ADJACENT ANSUL CONTROL PANEL) - REFER TO DESIGN DRAWINGS FOR ADDITIONAL INFORMATION AND CLARIFICATION.
11. KITCHEN HOOD EXHAUST FANS AND MAKE-UP AIR UNITS SHALL BE INTERLOCKED AND THE CONTROL CIRCUITS SHALL BE ROUTED THROUGH DRY CONTACTS PROVIDED IN THE FIRE PROTECTION SYSTEM. PROVIDE ADDITIONAL RELAYS AS REQUIRED.
12. PROVIDE 120V SERVICE AND CONNECTIONS TO GAS SOLENOID VALVES. INTERCONNECT WITH HOOD CONTROL AND FIRE SUPPRESSION SYSTEMS.
13. SUPPLEMENTAL LED TASK LIGHTING: PROVIDE (20) UNITS (LENGTHS AS REQUIRED) UNDER- COUNTER WET LOCATION LINE VOLTAGE TASK LUMINAIRES, COMPLETE WITH LEDS, CONNECTOR(S), CORD SET(S), AND LOCAL SWITCHING AS REQUIRED, CSL ECO-COVE LED "ECV" SERIES OR EQUAL. LOCATE AS DIRECTED FOR SUPPLEMENTAL TASK LIGHTING, OR AS REQUIRED TO PROVIDE MINIMUM FIFTY (50) FOOTCANDLE LIGHTING LEVELS. RETURN EXCESS TO OWNER.
14. PROVIDE RACEWAY SYSTEMS FOR REFRIGERATION AND BEVERAGE SERVICE LINES AS DIRECTED IN FOOD SERVICE DRAWINGS (ALL LONG-RADIUS SWEEPS). PROVIDE PULL CANS AND GUTTERS AS REQUIRED. ASSEMBLE ALL RACEWAY SYSTEM JOINTS WITH SILICONE CAULK TO PROVIDE A CONTINUOUS WATERTIGHT ASSEMBLY.
15. IT IS ANTICIPATED THAT CERTAIN FOOD SERVICE EQUIPMENT WILL BE DELIVERED TO THE PROJECT WITH DIFFERENT LOADS AND VOLTAGE/PHASE REQUIREMENTS THAN ORIGINALLY DESIGNED. THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS %SUBSES%/NJ BID AN ALLOWANCE SUFFICIENT TO COVER RECIRCUITING AND RECONNECTION OF INSTALLED WORK FOR THE FOLLOWING ITEMS:
 - CHANGE (10) EQUIPMENT ITEMS FROM SINGLE-PHASE TO THREE-PHASE OR FROM THREE-PHASE TO SINGLE-PHASE, SAME OR SIMILAR LOAD.
 - CHANGE (10) EQUIPMENT ITEMS FROM (+/-) 2 KW TO (+/-) 4 KW, SAME VOLTAGE, PHASE CHANGE.
 - CHANGE (5) EQUIPMENT ITEMS FROM 120/208-VOLT TO 480-VOLT OR FROM 480-VOLT TO 120/208-VOLT, SAME OR SIMILAR LOAD.
16. ALL EXPOSED INCANDESCENT LAMPS IN DINING AND FOOD PREPARATION AREAS SHALL BE AN APPROVED 'UL' COATED LAMP.

SINGLE-LINE NOTES

1. ALL SWITCHGEAR, PANELBOARDS, ETC. ARE TO BE UL LISTED FOR THEIR LOCATION AND INTENDED USE. ALL EQUIPMENT SHALL BE BRACED FOR FAULT CURRENT RATINGS ASSOCIATED WITH THEIR VOLTAGE AND LOCATION WITHIN THE SYSTEM.
2. ALL EQUIPMENT, FEEDERS, CIRCUITS, SERVICES, ETC. SHALL BE GROUNDED PER NEC ARTICLE 250.
3. ALL FEEDERS ARE BASED ON COPPER CONDUCTORS AND SHALL CARRY A SEPARATE GROUNDING CONDUCTOR.
4. ALL SWITCHES OR CIRCUIT BREAKERS ARE THREE POLE UNLESS OTHERWISE NOTED.
5. ALL SWITCHBOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT. MAIN SWITCHBOARDS SHALL CONTAIN CUSTOMER METERING FOR VOLTAGE, AMPACITY, DEMAND AND PEAK DEMAND PER PHASE.
6. ALL MAIN SWITCHBOARDS SHALL HAVE FACTORY INSTALLED TRANSIENT VOLTAGE SURGE PROTECTION. COORDINATE WITH LOCAL UTILITY COMPANY.
7. ALL DISTRIBUTION BOARDS SHALL BE OF SWITCHBOARD CONSTRUCTION WITH COPPER BUSSING AND ALL SECTIONS SHALL ALIGN IN FRONT.
8. ALL DISTRIBUTION PANELBOARDS SHALL BE OF QMR/CCB CONSTRUCTION WITH COPPER BUSSING WITH A DEPTH OF LESS THAN 14" AND ALL SECTIONS SHALL ALIGN IN FRONT.
9. PANELBOARDS SHALL HAVE FLUSH MONO-FLAT TRIM, PIANO HINGED DOORS AND COVER (DOOR-IN-DOOR) WITH LOCKABLE MASTER-KEYED FLUSH CATCHES AND BOLT-ON CIRCUIT BREAKERS. FLUSH MOUNTED PANELS SHALL HAVE EMPTY CONDUITS STUBBED TO ACCESSIBLE ATTIC SPACE: (1) 3/4" CONDUIT FOR EACH THREE (3) SPARE/SPACE POLES.
10. ALL PANELBOARDS INSTALLED IN GARAGES OR AREAS COMPLYING WITH NEC ARTICLE 500, 511, AND/OR 514 SHALL BE INSTALLED MINIMUM 18" ABOVE FLOOR LINE TO BOTTOM OF PANEL AND SHALL BE IN MULTIPLE PANELS AS REQUIRED WITH TOP MOST BREAKER NO HIGHER THAN 6'-7" A.F.F. PER NEC ARTICLE 404.
11. ALL ELECTRICAL EQUIPMENT (i.e. SWITCHBOARDS, PANELBOARDS, DISCONNECTS, STARTERS, ETC.) SHALL HAVE A NAMEPLATE. THE NAMEPLATE SHALL BE PHENOLIC WITH ENGRAVED WHITE LETTERS AND SHALL PROVIDE THE FOLLOWING INFORMATION:
 - LINE 1 - "EQUIPMENT NAME"
 - LINE 2 - "FED FROM ..."
 - LINE 3 - "VOLTAGE, AMPACITY, PHASE"
 - LINE 4 - "DATE INSTALLED"

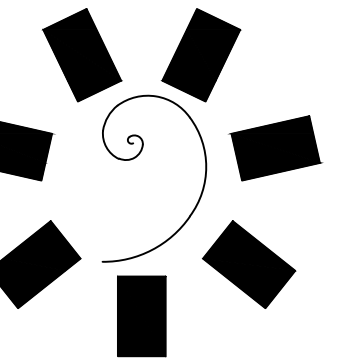
NAMEPLATES SHALL BE SIZED BASED ON THE FOLLOWING:

 - SWITCHBOARDS, DISTRIBUTION BOARDS, TRANSFORMERS:
 - * LINE 1 = 1/2" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS
 - PANELBOARDS, MOTOR CONTROL CENTERS, DISCONNECTS, STARTERS, ETC.:
 - * LINE 1 = 3/8" LETTERS, LINES 2, 3, & 4 = 1/4" LETTERS

NAMEPLATE COLORS SHALL BE AS FOLLOWS:

 - BLACK = NORMAL POWER
 - RED = LIFE SAFETY/EMERGENCY POWER
 - BLUE = STANDBY POWER
 - GREEN = INVERTER POWER

ALL NAMEPLATES SHALL BE FASTENED WITH A MINIMUM OF TWO (2) SCREWS. NO SELF ADHESIVE NAMEPLATES ARE ALLOWED.
12. ALL CONDUCTORS HAVE BEEN REVIEWED FOR VOLTAGE DROP. CONTRACTOR IS TO NOTIFY ENGINEER IF FIELD CONDITIONS SUBSTANTIALLY INCREASE CONDUCTOR LENGTH.
13. ALL FLOOR-STANDING EQUIPMENT LOCATED AT GRADE OR BELOW SHALL HAVE A MINIMUM 4" HIGH HOUSEKEEPING PAD INSTALLED UNDER THEM. PAD SHALL EXTEND 4" BEYOND EQUIPMENT FOOTPRINT IN ALL DIRECTIONS. THE INSTALLATION OF A PAD SHALL ALSO APPLY TO EQUIPMENT THAT MIGHT BE SUSCEPTIBLE TO WATER DAMAGE THAT IS LOCATED IN AREAS OTHER THAN AT GRADE.
14. PROVIDE PROTECTIVE RELAYS FOR PHASE FAILURE AND UNDERVOLTAGE FOR ALL MOTOR-RELATED CIRCUITS.
15. PROVIDE ALL ASSOCIATED COSTS FOR THIRD PARTY TESTING OF ALL EQUIPMENT, CONDUCTORS, GROUND FAULT, GROUND FAULT COORDINATION STUDY WITH REPORT PREPARATION, ETC.



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 TAHLEQUAH CASINO
 TAHLEQUAH, OKLAHOMA

PROJECT PHASE:

**BID PACKAGE 02
(100% SET)**

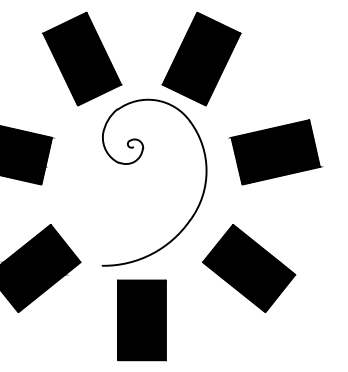
REVISIONS		
#	DATE	DESCRIPTION

DATE: **03/27/18** JOB NUMBER: **17-06**

SHEET NUMBER:

E0.2

SINGLE LINE AND
FOOD SERVICE
SYSTEM NOTES



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(100% SET)

REVISIONS	
#	DESCRIPTION

DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:

E0.3

SCHEDULES

SLOT FLOOR JUNCTION BOX SCHEDULE

POSITION	PANEL	CIRCUIT #	HOMERUN	SLOT BANK	CONTROL CHANNEL
01	TCSP1		1 1/4"C		
02	TCSP1		1 1/4"C		
03	TCSP1		1 1/4"C		
04	TCSP1		1 1/4"C		
05	TCSP1		1 1/4"C		
06	TCSP1		1 1/4"C		
07	TCSP1		1 1/4"C		
08	TCSP1		1 1/4"C		
09	TCSP1		1 1/4"C		
10	TCSP2		1 1/4"C		
11	TCSP2		1 1/4"C		
12	TCSP2		1 1/4"C		
13	TCSP2		1 1/4"C		
14	TCSP2		1 1/4"C		
15	TCSP2		1 1/4"C		
16	TCSP2		1 1/4"C		
17	TCSP2		1 1/4"C		
18	TCSP2		1 1/4"C		
19	TCSP2		1 1/4"C		
20	TCSP3		1 1/4"C		
21	TCSP3		1 1/4"C		
22	TCSP3		1 1/4"C		
23	TCSP3		1 1/4"C		
24	TCSP3		1 1/4"C		
25	TCSP3		1 1/4"C		
26	TCSP3		1 1/4"C		
27	TCSP3		1 1/4"C		
28	TCSP3		1 1/4"C		
29	TCSP4		1 1/4"C		
30	TCSP4		1 1/4"C		
31	TCSP4		1 1/4"C		
32	TCSP4		1 1/4"C		
33	TCSP4		1 1/4"C		
34	TCSP4		1 1/4"C		
35	TCSP4		1 1/4"C		
36	TCSP4		1 1/4"C		
37	TCSP4		1 1/4"C		
38	TCSP4		1 1/4"C		
39	TCSP5		1 1/4"C		
40	TCSP5		1 1/4"C		
41	TCSP5		1 1/4"C		
42	TCSP5		1 1/4"C		
43	TCSP5		1 1/4"C		
44	TCSP5		1 1/4"C		
45	TCSP5		1 1/4"C		
46	TCSP5		1 1/4"C		
47					
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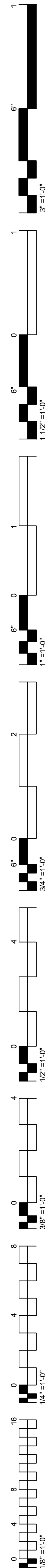
FEEDER SCHEDULE

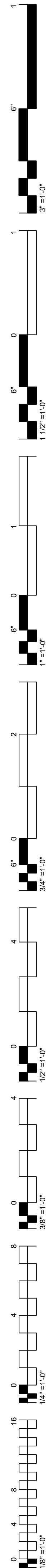
FEEDER	AMPERE	CONDUIT AND WIRE (COPPER) THWN, 3Φ, 3W.	GROUND	FEEDER	AMPERE	CONDUIT AND WIRE (COPPER) THWN, 3Φ, 4W.	GROUND
1	20	1/2" - 3 - #12	#12	31	20	1/2" - 4 - #12	#12
2	30	1/2" - 3 - #10	#10	32	30	3/4" - 4 - #10	#10
3	40	3/4" - 3 - #8	#10	33	40	1" - 4 - #8	#10
4	50	1" - 3 - #6	#10	34	50	1 1/4" - 4 - #6	#10
5	60	1" - 3 - #6	#10	35	60	1 1/4" - 4 - #6	#10
6	70	1 1/4" - 3 - #4	#8	36	70	1 1/4" - 4 - #4	#8
7	80	1 1/4" - 3 - #4	#8	37	80	1 1/4" - 4 - #4	#8
8	100	1 1/4" - 3 - #2	#8	38	100	1 1/2" - 4 - #2	#8
9	125	1 1/2" - 3 - #1	#6	39	125	1 1/2" - 4 - #1	#6
10	150	1 1/2" - 3 - #1/0	#6	40	150	2" - 4 - #1/0	#6
11	175	2" - 3 - #2/0	#6	41	175	2" - 4 - #2/0	#6
12	200	2" - 3 - #3/0	#6	42	200	2" - 4 - #3/0	#6
13	225	2" - 3 - #4/0	#4	43	225	2 1/2" - 4 - #4/0	#4
				43T	225	2 1/2" - 4 - #4/0	#2
14	250	3" - 3 - #250 K	#4	44	250	3" - 4 - #250 K	#4
				44T	250	3" - 4 - #250 K	#2
15	300	4" - 3 - #350 K	#4	45	300	4" - 4 - #350 K	#4
16	350	4" - 3 - #500 K	#2	46	350	4" - 4 - #500 K	#2
17	400	4" - 3 - #500 K	#2	47	400	4" - 4 - #500 K	#2
				47T	400	(2) 2" - 8 - #3/0	(2) #1/0
18	500	(2) 3" - 6 - #250 K	(2) #2	48	500	(2) 3" - 8 - #250 K	(2) #2
				48T	500	(2) 3" - 8 - #250 K	(2) #1/0
19	600	(2) 4" - 6 - #350 K	(2) #1	49	600	(2) 4" - 8 - #350 K	(2) #1
20	800	(2) 4" - 6 - #500 K	(2) #1/0	50	800	(2) 4" - 8 - #500 K	(2) #1/0
				50T	800	(3) 4" - 12 - #350 K	(3) #2/0
21	1000	(4) 4" - 12 - #250 K	(4) #2/0	51	1000	(4) 4" - 16 - #250 K	(4) #2/0
				51T	1000	(4) 4" - 16 - #250 K	(4) #2/0
22	1200	(4) 4" - 12 - #350 K	(4) #3/0	52	1200	(4) 4" - 16 - #350 K	(4) #3/0
23	1600	(5) 4" - 15 - #500 K	(5) #4/0	53	1600	(5) 4" - 20 - #500 K	(5) #4/0
				53T	1600	(5) 4" - 20 - #500 K	(5) #350 K
24	2000	(6) 4" - 18 - #500 K	(6) #250 K	54	2000	(6) 4" - 24 - #500 K	(6) #250 K
25	2500	(7) 4" - 21 - #500 K	(7) #350 K	55	2500	(7) 4" - 28 - #500 K	(7) #350 K
26	3000	(8) 4" - 24 - #500 K	(8) #400 K	56	3000	(8) 4" - 32 - #500 K	(8) #400 K
27	4000	(11) 4" - 33 - #500 K	(11) #500 K	57	4000	(11) 4" - 44 - #500 K	(11) #500 K

TRANSFORMER SCHEDULE

480V TO 208/120V, 3Φ, 4W

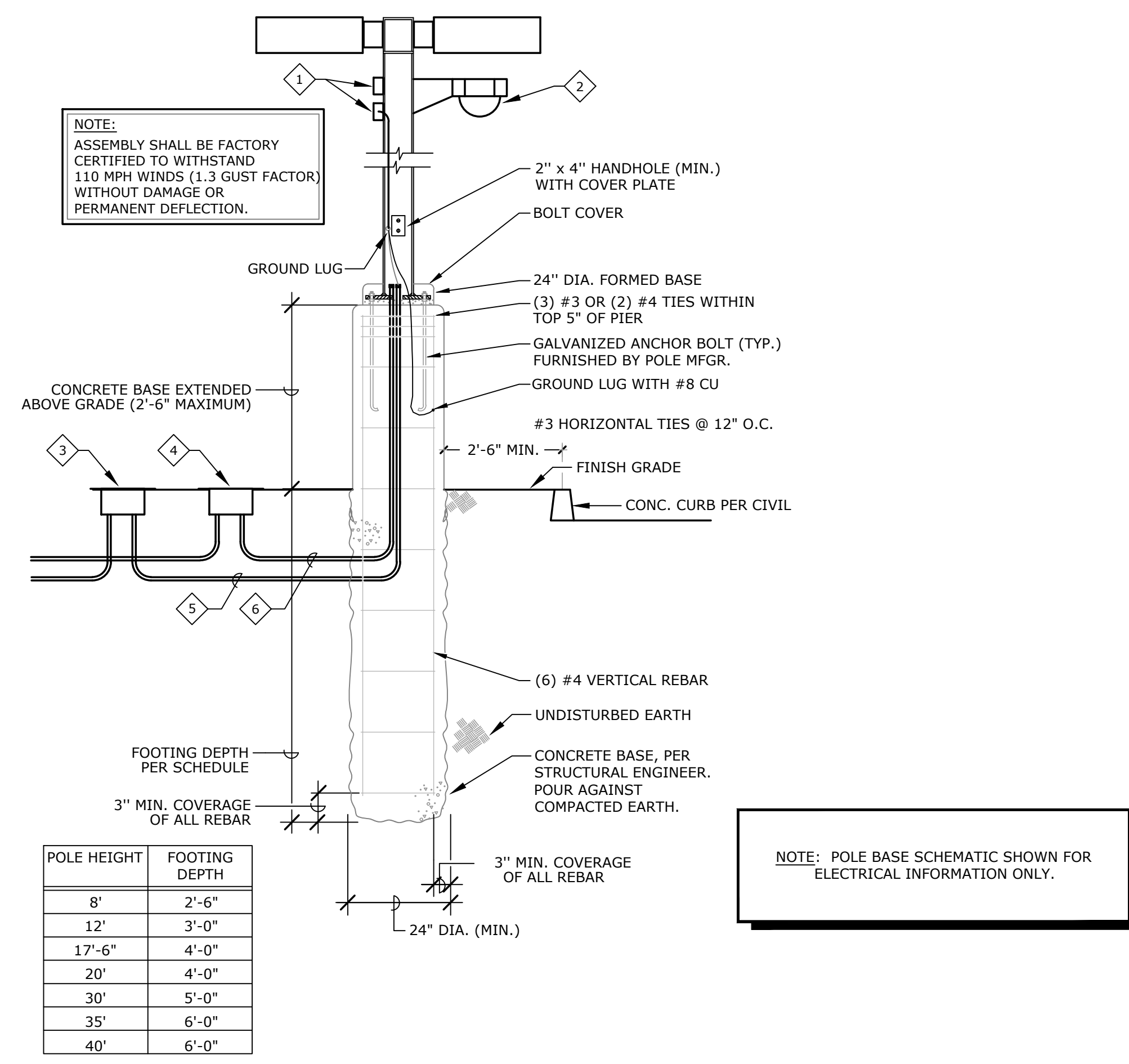
DESIGNATION	RATING KVA	WINDINGS		TEMPERATURE RISE			SECONDARY GROUND	COMMENTS
		CU.	AL.	150°C	115°C	80°C		
T1	15	●			●		#8	.
T2	30	●			●		#8	.
T3	45	●			●		#6	.
T4	75	●			●		#2	.
T5	112.5	●			●		#1/0	.
T6	150	●			●		#1/0	.
T7	225	●			●		#2/0	.
T8	300	●			●		#3/0	.
T9	500	●			●		#3/0	.
T10	750	●			●		#3/0	.
T11								.



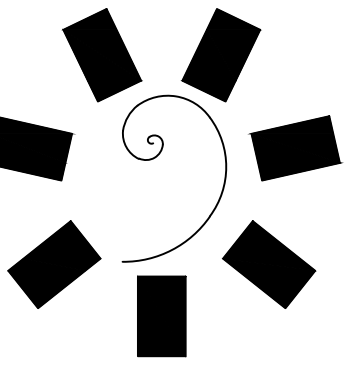


SHEET NOTES:

- 1 200VA, 208V TO 120V, 1PH ENCAPSULATED TRANSFORMER WITH LINE AND LOAD INLINE FUSES IN WP BOX. CONNECT WITH 3/4" C, 2#10, 1#10 GND TO WP J-BOX AND CONNECT TO CAMERA HOUSING.
- 2 TYPICAL SECURITY CAMERA. LOCATE AT LIGHT POLES AS DIRECTED BY SECURITY DEPARTMENT. REFER TO LOW VOLTAGE DRAWINGS FOR ADDITIONAL INFORMATION.
- 3 MINIMUM 3 1/2 PULLBOX WITH BROWN FIBERGLASS LID IN LANDSCAPE AREAS OR H20 RATED IN PAVED AREAS FOR LIGHT POLE AND CAMERA POWER.
- 4 SIZE 3 1/2 PULLBOX WITH BROWN FIBERGLASS LID IN LANDSCAPE AREAS OR H20 RATED IN PAVED AREAS AS NEEDED FOR SECURITY CAMERA CABLING.
- 5 (1) 1" C FROM PULLBOX FOR LIGHT POLE POWER AND (1) 1" C FROM PULLBOX FOR CAMERA POWER.
- 6 (1) 1" C FROM PULLBOX TO LIGHT POLE BASE FOR SECURITY CAMERA CABLING.



A TYPICAL POLE BASE SCHEMATIC
E0.4 NTS



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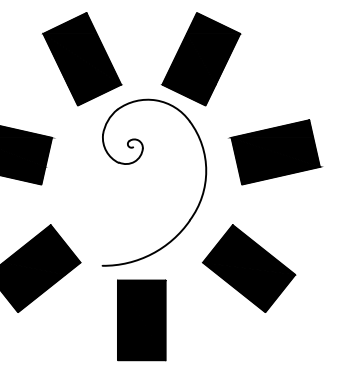
PROJECT PHASE:
**CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO**
TAHLEQUAH, OKLAHOMA

BID PACKAGE 02
(100% SET)

REVISIONS	
#	DESCRIPTION

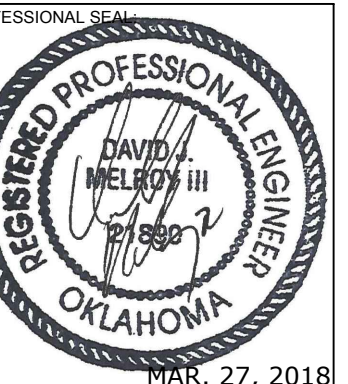
DATE: 03/27/18
JOB NUMBER: 17-06

SHEET NUMBER:
E0.4
ELECTRICAL
DIAGRAM



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CONSULTANT LOGO:



CLIENT:
CHEROKEE NATION
Entertainment



CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
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BID PACKAGE 02
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REVISIONS	
#	DESCRIPTION

DATE: 03/27/18
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E0.10

SINGLE LINE DIAGRAM -
MAIN SERVICE
SWITCHBOARD 'TCMSA'

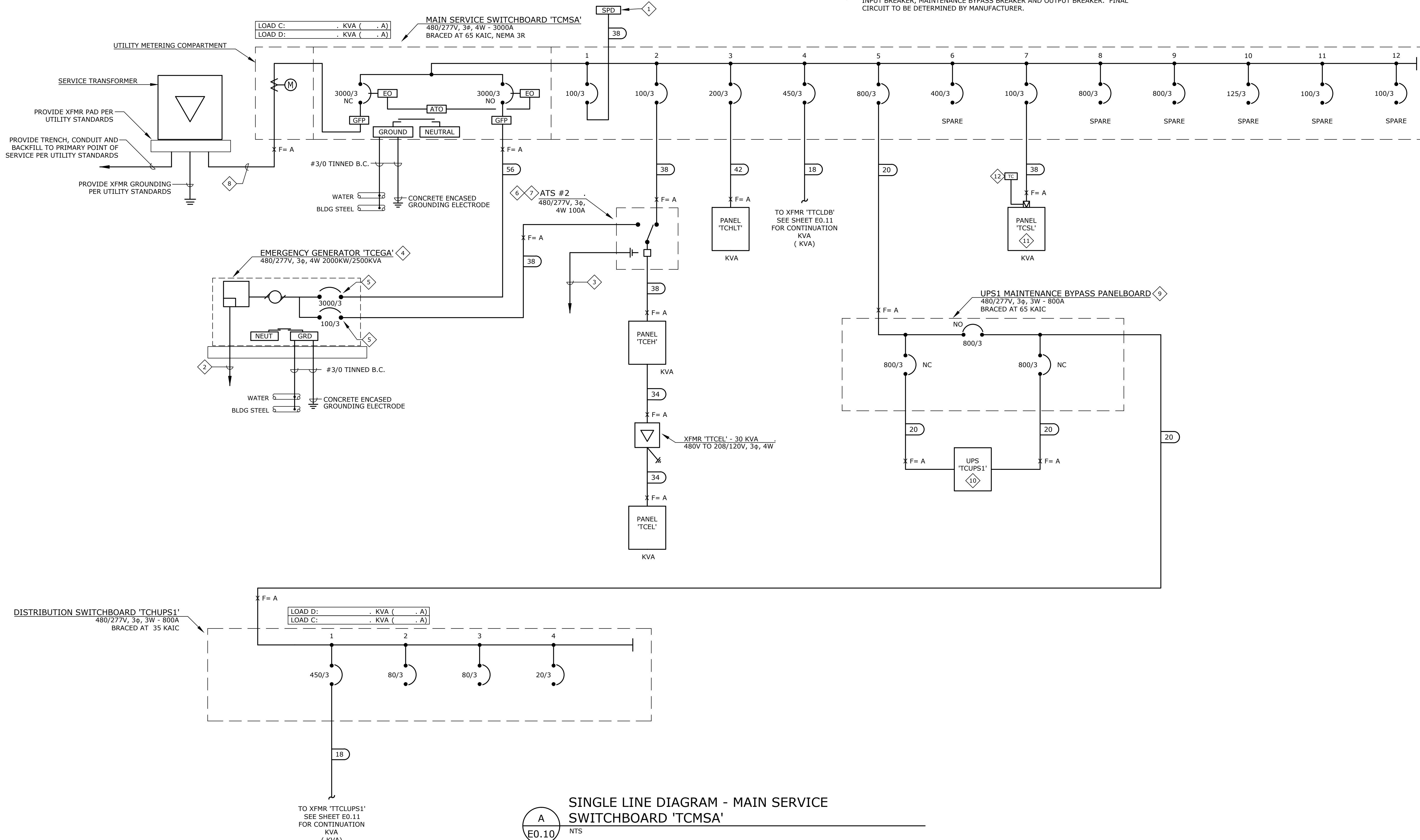
GENERAL NOTES:

1. MINIMUM EQUIPMENT A.I.C. RATINGS ARE 14K A.I.C. @ 480/277V AND 10K A.I.C. @ 208/120V UNLESS OTHERWISE NOTED.
2. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED SHORT CIRCUIT CALCULATIONS AND THE A.I.C. RATINGS INDICATED FOR EACH DEVICE ARE ADEQUATE TO PROTECT THE EQUIPMENT AND THE ELECTRICAL SYSTEM.
3. THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER 2008 NATIONAL ELECTRICAL CODE ARTICLE 210.19(A)(1), FPN NO. 4.
4. PANELBOARD LOAD SUMMARIES INCLUDE ADDITIONAL 25% OF ALL CONTINUOUS AND LARGEST MOTOR LOADS WHERE APPLICABLE.
5. AS PART OF THE PHASED CONSTRUCTION, ALL EQUIPMENT FEEDER UNDERGROUND RACEWAYS WILL BE FURNISHED AND INSTALLED AS PART OF BID PACKAGE 01. THE REMAINING RACEWAY SYSTEM INCLUDING INSTALLATION OF FEEDER CONDUCTORS WILL BE FURNISHED AND INSTALLED AS PART OF BID PACKAGE 02. VERIFY ADDITIONAL REQUIREMENTS WITH THE GENERAL CONTRACTOR/OWNERS REPRESENTATIVE/CONSTRUCTION MANAGER.
6. REFER TO SHEET E0.2 FOR SINGLE LINE NOTES, SEQUENCE OF OPERATION AND FEEDER SCHEDULE.
7. NORMAL ELECTRICAL SERVICE AND GENERATOR ELECTRICAL SERVICE TO ENTER BUILDING AS SEPARATE DUCTBANKS AND AT SEPARATE LOCATIONS. THE CONTRACTOR SHALL MARK THE PAVEMENT SHOWING ROUTING OF EACH SYSTEM.

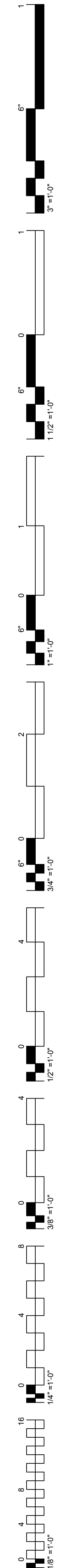
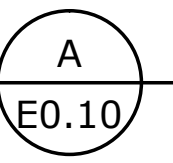
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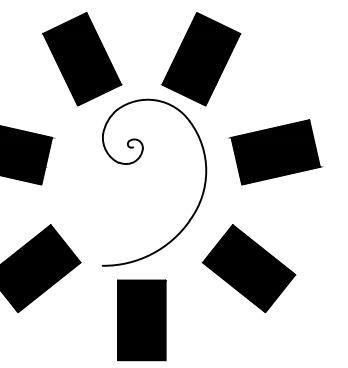
1. PROVIDE SURGE PROTECTIVE DEVICE AS DEFINED IN SPECIFICATIONS UNDER TVSS SECTION.
2. MINIMUM 1 1/4" CONDUIT FROM GENERATOR CONTROL PANEL TO REMOTE STATUS PANEL IN SURVEILLANCE ROOM. PROVIDE CABLE HARNESS PER MANUFACTURER'S REQUIREMENTS.
3. MINIMUM 3/4" CONDUIT FROM ATS TO GENERATOR CONTROL PANEL FOR START SIGNAL. PROVIDE CABLE HARNESS PER MANUFACTURER'S REQUIREMENTS.
4. EMERGENCY GENERATOR SHALL BE 480V, 3PH, 4W WITH FULLY ENCLOSED WEATHERPROOF HOUSING, CRITICAL GRADE MUFFLER, MINIMUM 24 HOUR BASE TANK WITH FUEL FREEZE PROTECTION SYSTEM, BATTERY CHARGER, BATTERY HEATER BLANKET, RADIATOR/CASE HEATERS, ETC. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
5. BREAKER STYLE SHALL ALLOW FOR FULL COORDINATION OF EMERGENCY SYSTEM PER NEC 700, 701 AND 702.
6. TRANSFER SWITCH SHALL BE FULLY AUTOMATIC.
7. ATS #2 100A, 480V, 3φ, 4W, 4 POLE, BRACED FOR 35KAIC. TRANSFER SWITCH SHALL BE RATED TO COMPLY WITH NEC 700 AND 701.
8. (8) 4" - 32 - 500KCMIL, THHN/THWN, CU.
9. SWITCHBOARD TO BE SUPPLIED BY UPS MANUFACTURER AND BE PROVIDED WITH INPUT BREAKER, MAINTENANCE BYPASS BREAKER AND OUTPUT BREAKER. FINAL CIRCUIT TO BE DETERMINED BY MANUFACTURER.

10. UPS TO BE 600KVA, 480V, 3φ INPUT/480V, 3φ OUTPUT FLYWHEEL TYPE UNIT. UPS TO BE MANUFACTURED BY ACTIVE POWER AND BE PROVIDED WITH ACTIVE MONITORING VIA BUS.
11. PANEL TO BE MOUNTED IN MAIN SERVICE SWITCHBOARD 'TCMSA'.
12. PROVIDE ASTRONOMIC TIMECLOCK WITH DIGITAL OUTPUT.



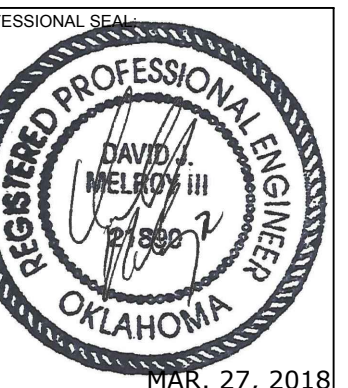
SINGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCMSA'





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CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
BID PACKAGE 02
(100% SET)

REVISIONS		
#	DATE	DESCRIPTION

DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER: E0.11

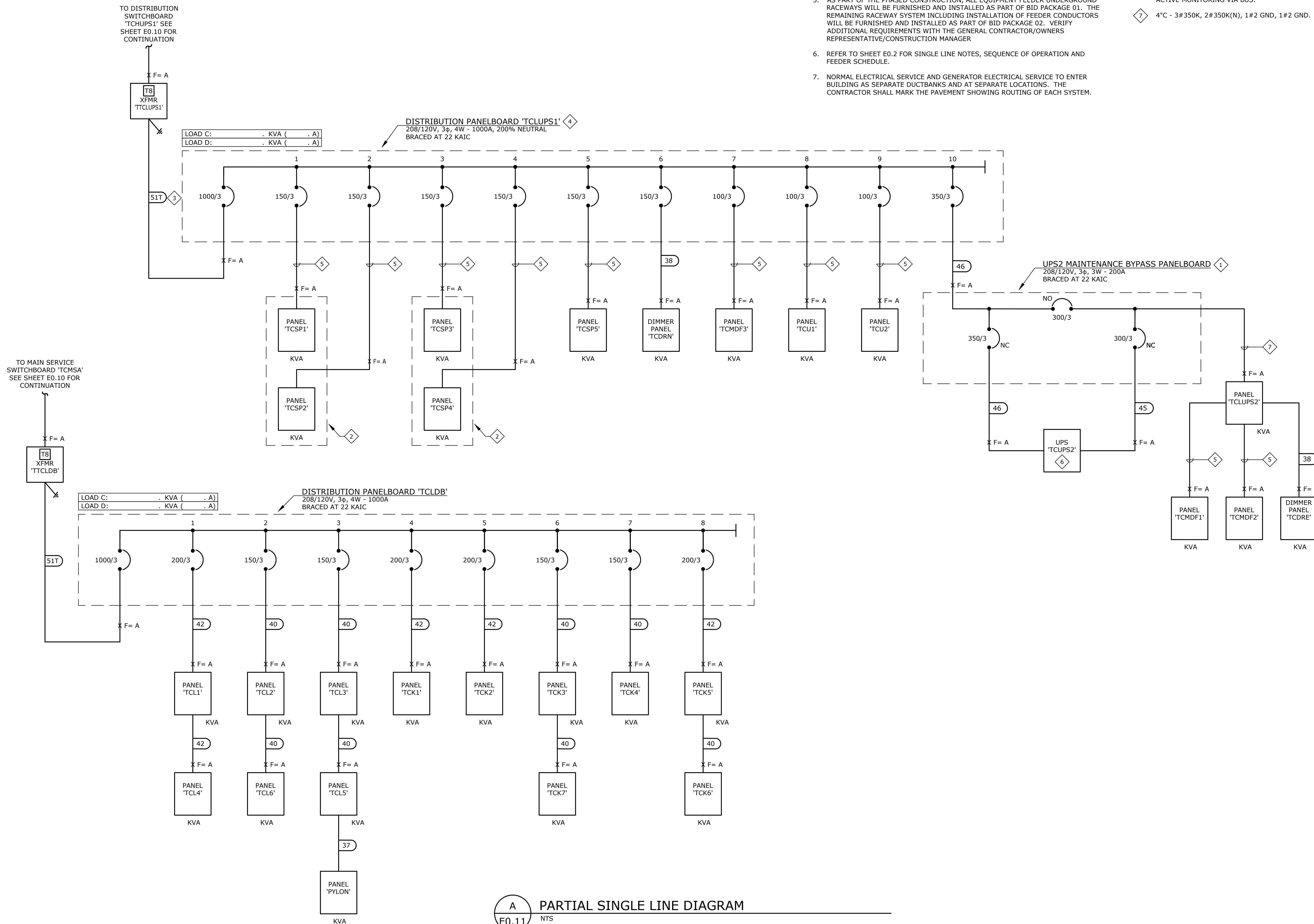
PARTIAL SINGLE LINE DIAGRAM

GENERAL NOTES:

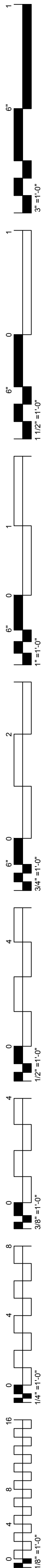
- MINIMUM EQUIPMENT A.I.C. RATINGS ARE 14K A.I.C. @ 480/277V AND 10K A.I.C. @ 208/120V UNLESS OTHERWISE NOTED.
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- THE DESIGN PROFESSIONAL HAS PERFORMED ALL THE REQUIRED VOLTAGE DROP CALCULATIONS FOR ALL BRANCH CIRCUITS AND FEEDERS PER 2008 NATIONAL ELECTRICAL CODE ARTICLE 210.19(A)(1), FPN NO. 4.
- PANELBOARD LOAD SUMMARIES INCLUDE ADDITIONAL 25% OF ALL CONTINUOUS AND LARGEST MOTOR LOADS WHERE APPLICABLE.
- AS PART OF THE PHASED CONSTRUCTION, ALL EQUIPMENT FEEDER UNDERGROUND RACEWAYS WILL BE FURNISHED AND INSTALLED AS PART OF BID PACKAGE 01. THE REMAINING RACEWAY SYSTEM INCLUDING INSTALLATION OF FEEDER CONDUCTORS WILL BE FURNISHED AND INSTALLED AS PART OF BID PACKAGE 02. VERIFY ADDITIONAL REQUIREMENTS WITH THE GENERAL CONTRACTOR/OWNERS REPRESENTATIVE/CONSTRUCTION MANAGER
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SHEET NOTES:

- SWITCHBOARD TO BE SUPPLIED BY UPS MANUFACTURER AND BE PROVIDED WITH INPUT BREAKER, MAINTENANCE BYPASS BREAKER AND OUTPUT BREAKER. FINAL CIRCUIT TO BE DETERMINED BY MANUFACTURER.
- PANELS SHALL BE IN COMMON ENCLOSURE.
- FEEDER TO HAVE DOUBLE NEUTRAL AND ISOLATED GROUND CONDUCTOR.
- PROVIDE PANEL WITH EQUIPMENT GROUND AND ISOLATED GROUND BUSES.
- 2" C - 3#1/0, 2#1/0N, 1#6 GND, 1#6 IGND.
- UPS TO BE 80 KVA, 208/120V, 3Φ, 4W INPUT, 208/120V, 3Φ, 4W OUTPUT WITH 15 MINUTES RUN TIME. UPS TO BE MANUFACTURED BY GE AND BE PROVIDED WITH ACTIVE MONITORING VIA BUS.
- 4" C - 3#350K, 2#350K(N), 1#2 GND, 1#2 GND.



A PARTIAL SINGLE LINE DIAGRAM
E0.11 NTS

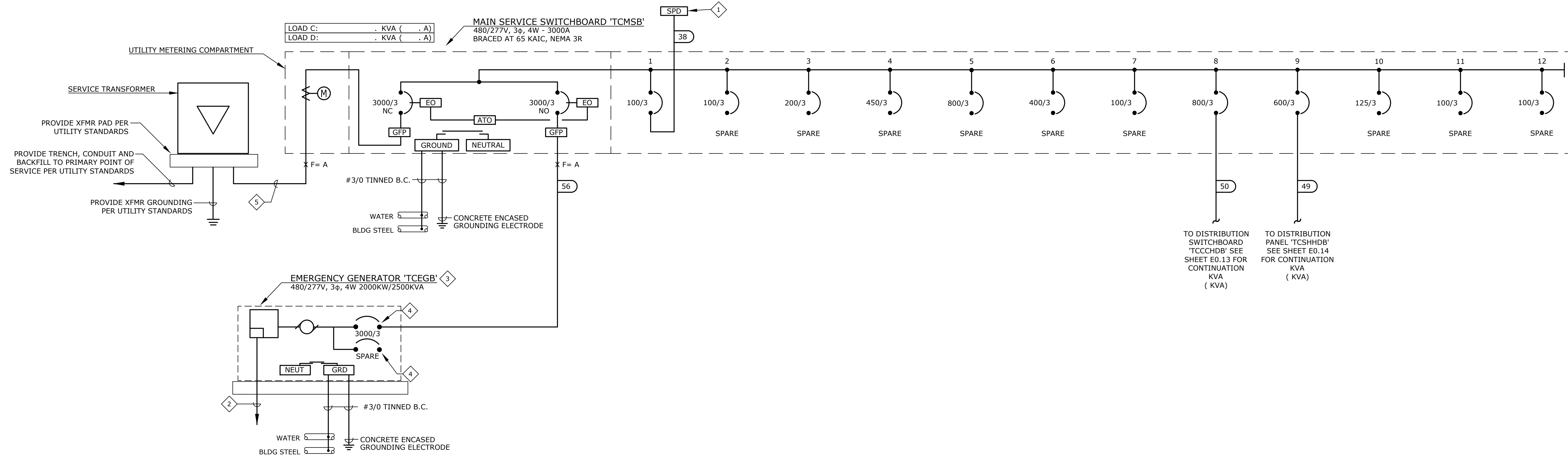


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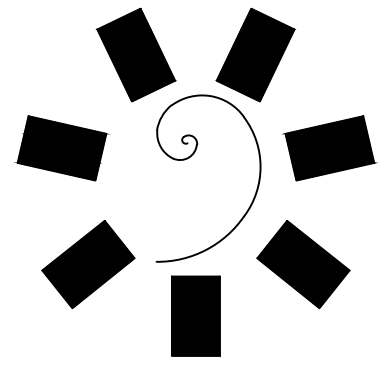
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5. (8) 4" C - 32 - 500KCMIL, THHN/THWN, CU.



SINGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCSMB'
 A
 E0.12 NTS



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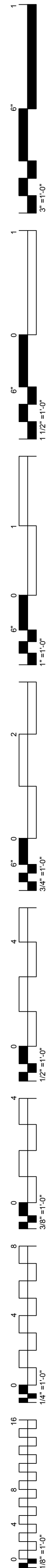
PROJECT PHASE:
BID PACKAGE 02 (100% SET)

REVISIONS		
#	DATE	DESCRIPTION

DATE: 03/27/18
 JOB NUMBER: 17-06

SHEET NUMBER:
E0.12

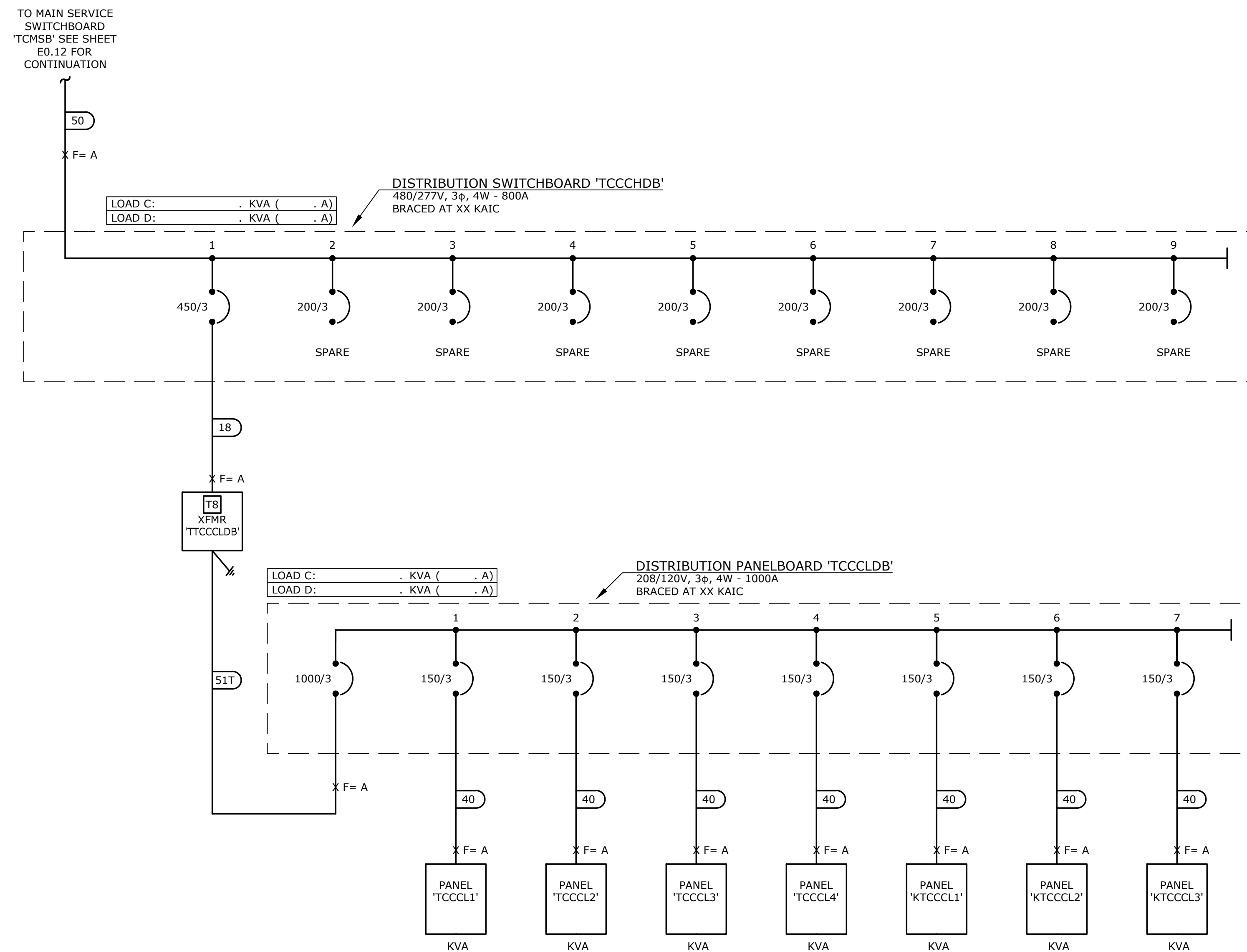
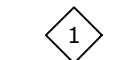
SINGLE LINE DIAGRAM - MAIN SERVICE SWITCHBOARD 'TCSMB'



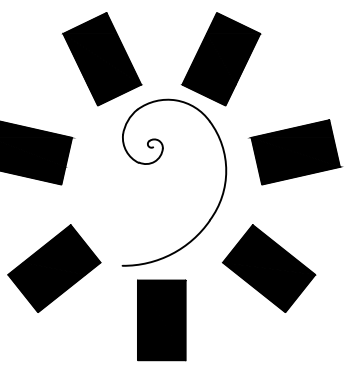
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SHEET NOTES:



A
PARTIAL SINGLE LINE DIAGRAM
E0.13 NTS



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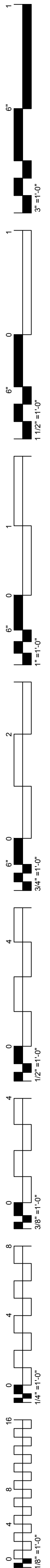
PROJECT PHASE:
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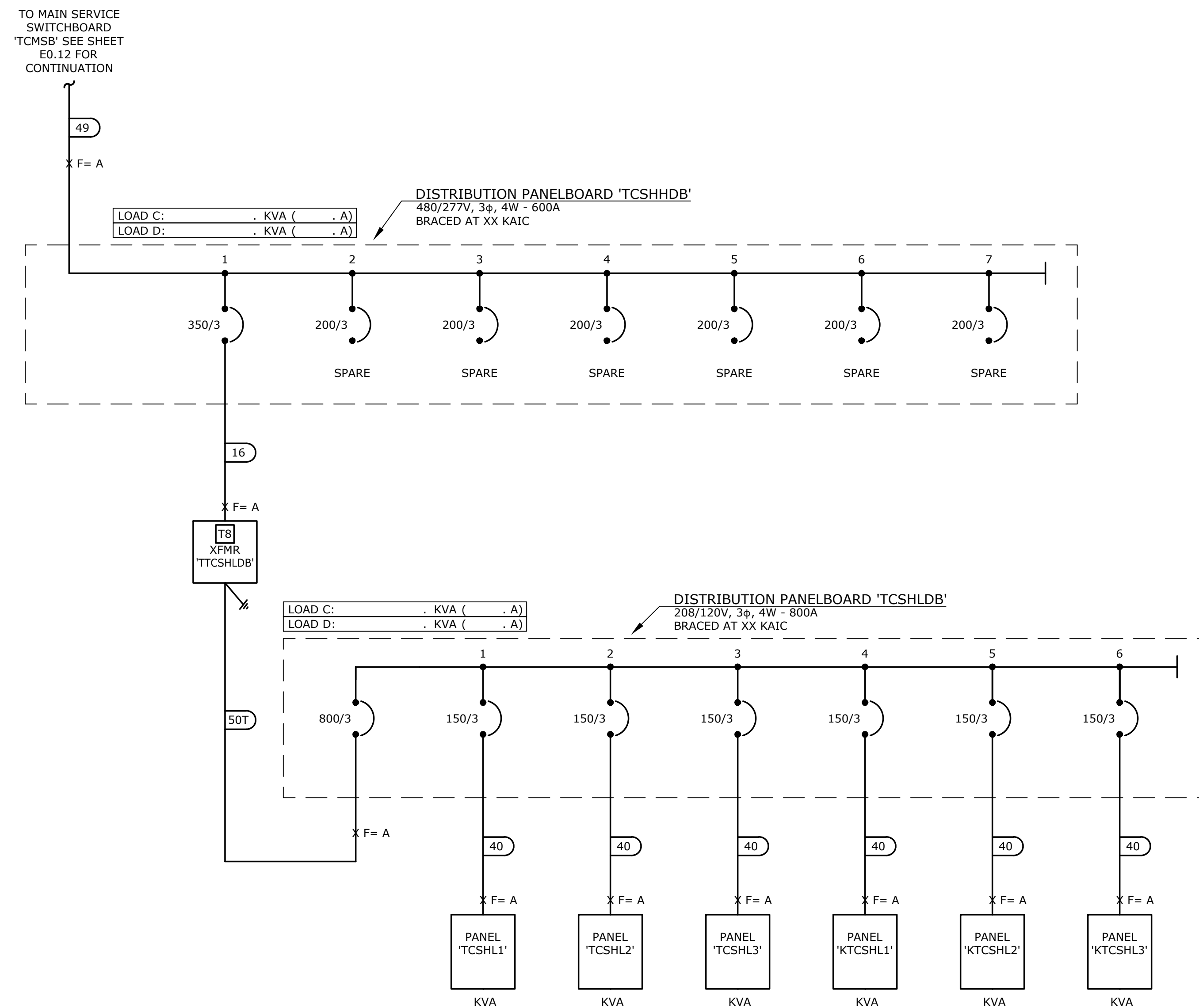
PARTIAL SINGLE LINE
DIAGRAM



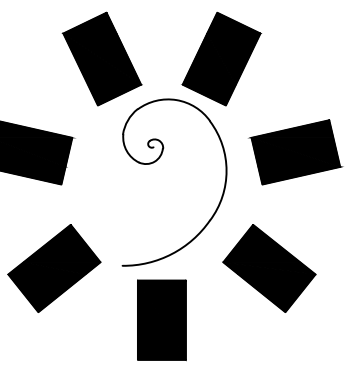
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SHEET NOTES:



A PARTIAL SINGLE LINE DIAGRAM
E0.14 NTS



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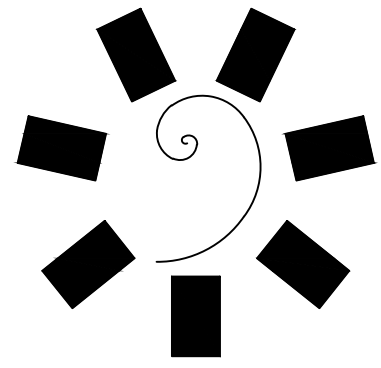
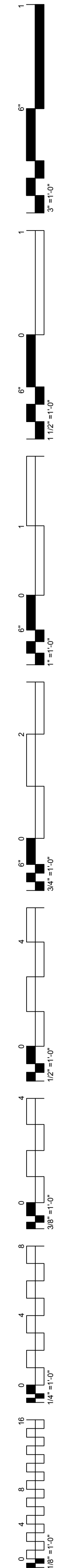
PARTIAL SINGLE LINE DIAGRAM

LIGHTING FIXTURE SCHEDULE

FIXTURE SCHEDULE GENERAL NOTES:

1. FIXTURES SHALL HAVE APPROPRIATE U.L. LABEL (i.e., DAMP OR WET) AS REQUIRED BY CODES AND ORDINANCES.
2. PRIOR TO ORDERING ANY LIGHTING EQUIPMENT, COORDINATE ALL FIXTURE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLANS AND CEILING CAVITY DEPTHS.
3. ALL LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ATTACHED FIXTURE SCHEDULE AND SPECIFICATIONS. ENSURE COMPATIBILITY BETWEEN FIXTURE, LAMP(S) AND BALLAST(S)/DRIVER(S).
4. CONTRACTOR SHALL VERIFY FIXTURE VOLTAGES AND CEILING TRIM COMPATIBILITY PRIOR TO ORDERING FIXTURE.
5. PROVIDE APPROVED FIRE-RATED ENCLOSURES FOR ALL LIGHTING FIXTURES LOCATED IN FIRE-RATED CEILING.
6. LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE ALL NECESSARY ACCESSORIES AND HARDWARE AS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
7. ALL FIXTURES SHALL BE ORDERED WITH APPROPRIATE BALLAST(S)/DRIVER(S) THAT HAVE U.L. AND CBM LABELS. ALL BALLASTS/DRIVERS SHALL CONFORM TO TITLE 24 AND/OR INTERNATIONAL ENERGY CONSERVATION CODE (IECC) REQUIREMENTS FOR PERFORMANCE. PROVIDE MULTIPLE BALLASTS/ DRIVERS FOR DUAL-LEVEL SWITCHING AND WIRING (i.e. TANDEM) AS INDICATED ON THE PLANS.
8. UPON INITIAL ENERGIZING OF ALL NEW FLUORESCENT LAMPS, A CONTINUOUS PERIOD OF THIRTY (30) HOURS SHALL OCCUR PRIOR TO DE-ENERGIZING OF LAMPS FOR MANUFACTURER REQUIRED LAMP BURN-IN AND MAXIMUM LAMP LIFE.
9. ALL FLUORESCENT BALLASTS SHALL BE ELECTRONIC TYPE. PROVIDE END OF LIFE (EOL) SHUT-DOWN PROTECTION FOR COMPACT FLUORESCENT LAMPS.
10. ENSURE COMPATIBILITY OF ALL LIGHTING SYSTEM COMPONENTS, ESPECIALLY DIMMED SYSTEMS. FIXTURES, LAMPS, BALLAST(S), DRIVER(S) AND DIMMING SYSTEMS/INDIVIDUAL CONTROLS SHALL BE FACTORY CERTIFIED COMPATIBLE FOR FULL RANGE OF DIMMING COMPATIBILITY.
11. PROVIDE CLEARANCES FROM COMBUSTIBLES, A MINIMUM OF 1/2" (OTHER THAN AT POINTS OF SUPPORT) AND 3" FROM INSULATION FOR RECESSED LIGHTING FIXTURES WHICH ARE NON-IC RATED.
12. PROVIDE A MINIMUM OF TWO (2) #12 SUPPORT WIRES ATTACHED TO BUILDING FRAME IN ADDITION TO T-BAR CLIPS FOR FIXTURES RECESSED IN SUSPENDED T-BAR CEILING.
13. FIXTURES WITH EMERGENCY BATTERY BACKUP SHALL BE WIRED AHEAD OF ANY LOCAL SWITCHING IN COMPLIANCE WITH NEC ARTICLE 700.
14. EMERGENCY LIGHTING UNITS SHALL BE EQUIPPED WITH FACTORY-INSTALLED INTEGRAL TEST SWITCHES AND PILOT LIGHTS.
15. PROVIDE DOOR-TO-FRAME AND LENS-TO-DOOR GASKETING, INVERTED LENS, AND FOOD SERVICE RATING FOR ALL FIXTURES LOCATED IN FOOD SERVICE AREAS.
16. LUMINAIRE THAT CONTAIN A BALLAST, POWER SUPPLY OR DRIVER THAT CAN BE SERVICED IN PLACE SHALL HAVE A DISCONNECTING MEANS EITHER INTERNAL OR EXTERNAL TO EACH LUMINAIRE SO AS TO DISCONNECT SIMULTANEOUSLY FROM THE SOURCE OF POWER ALL CONDUCTORS (INCLUDING THE GROUNDED CONDUCTOR IF ANY). IN ACCORDANCE WITH NEC ARTICLE 410, THE LINE-SIDE TERMINALS OF THE DISCONNECTING MEANS SHALL BE LOCATED SO AS TO BE ACCESSIBLE TO QUALIFIED PERSONS FOR SERVICING OR MAINTAINING THE BALLAST, POWER SUPPLY OR DRIVER.
17. ALL FLUORESCENT LAMPS SHALL BE OF A LOW MERCURY DESIGN, HAVE A MINIMUM CRI RATING OF 80 AND 3500°K COLOR TEMPERATURE UNLESS NOTED OTHERWISE.
18. CHARACTERISTICS OF LED LUMINAIRE SHALL MEET OR EXCEED THE FOLLOWING MINIMUM STANDARDS UNLESS OTHERWISE INDICATED:
 - L8/50 - 80% OF LUMEN OUTPUT AT 50,000 HOURS, WITH FUNCTIONAL LIFESPAN GREATER THAN 60,000 HOURS (LED ELEMENTS AND POWER SUPPLIES)
 - CRI EQUIVALENT TO OR GREATER THAN 80
 - EFFICACY EQUIVALENT TO OR GREATER THAN 80 LUMENS/WATT
 - CCT UNIFORMITY TO (3) MacADAM ELLIPSES
 - MINIMUM AMBIENT TEMPERATURE RATINGS: INTERIOR = 25°C (77°F), EXTERIOR = 45°C (113°F)
 - MINIMUM INGRESS PROTECTION RATINGS: INTERIOR = IP30, EXTERIOR = IP60

TYPE	DESCRIPTION AND MANUFACTURER	NOTES	TYPE	DESCRIPTION AND MANUFACTURER	NOTES	TYPE	DESCRIPTION AND MANUFACTURER	NOTES
S1 660	SINGLE HEAD PARKING LOT POLE LIGHT WITH 32"-6" MATCHING POLE. VOLTAGE: 480V LAMP: LED (INCLUDED) MANUFACTURER: MCGRAW-EDISON #GLEON-AE-10-LED-480-T3							
S2 1320	TWIN HEAD PARKING LOT POLE LIGHT WITH 32"-6" MATCHING POLE. VOLTAGE: 480V LAMP: LED (INCLUDED) MANUFACTURER: MCGRAW-EDISON #GLEON-AE-10-LED-480-5WQ							
S3 660	SINGLE HEAD ROADWAY POLE LIGHT WITH 32"-6" MATCHING POLE. VOLTAGE: 480V LAMP: LED (INCLUDED) MANUFACTURER: MCGRAW-EDISON #GLEON-AE-10-LED-480-T2R							
	VOLTAGE: . LAMP: . MANUFACTURER: .			VOLTAGE: . LAMP: . MANUFACTURER: .			VOLTAGE: . LAMP: . MANUFACTURER: .	
	VOLTAGE: . LAMP: . MANUFACTURER: .			VOLTAGE: . LAMP: . MANUFACTURER: .			VOLTAGE: . LAMP: . MANUFACTURER: .	
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	VOLTAGE: . LAMP: . MANUFACTURER: .			VOLTAGE: . LAMP: . MANUFACTURER: .			VOLTAGE: . LAMP: . MANUFACTURER: .	
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Entertainment
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CASINO

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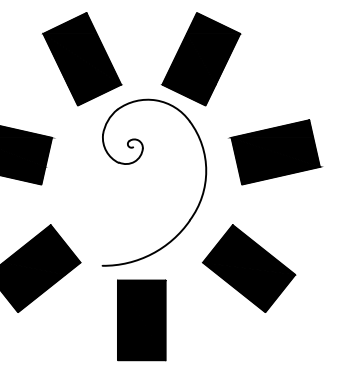
PROJECT PHASE:
**BID PACKAGE 02
(100% SET)**

REVISIONS	
#	DESCRIPTION

DATE: 03/27/18 JOB NUMBER: 17-06

SHEET NUMBER:
E0.40

LIGHTING FIXTURE
SCHEDULE



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CHEROKEE NATION
Entertainment



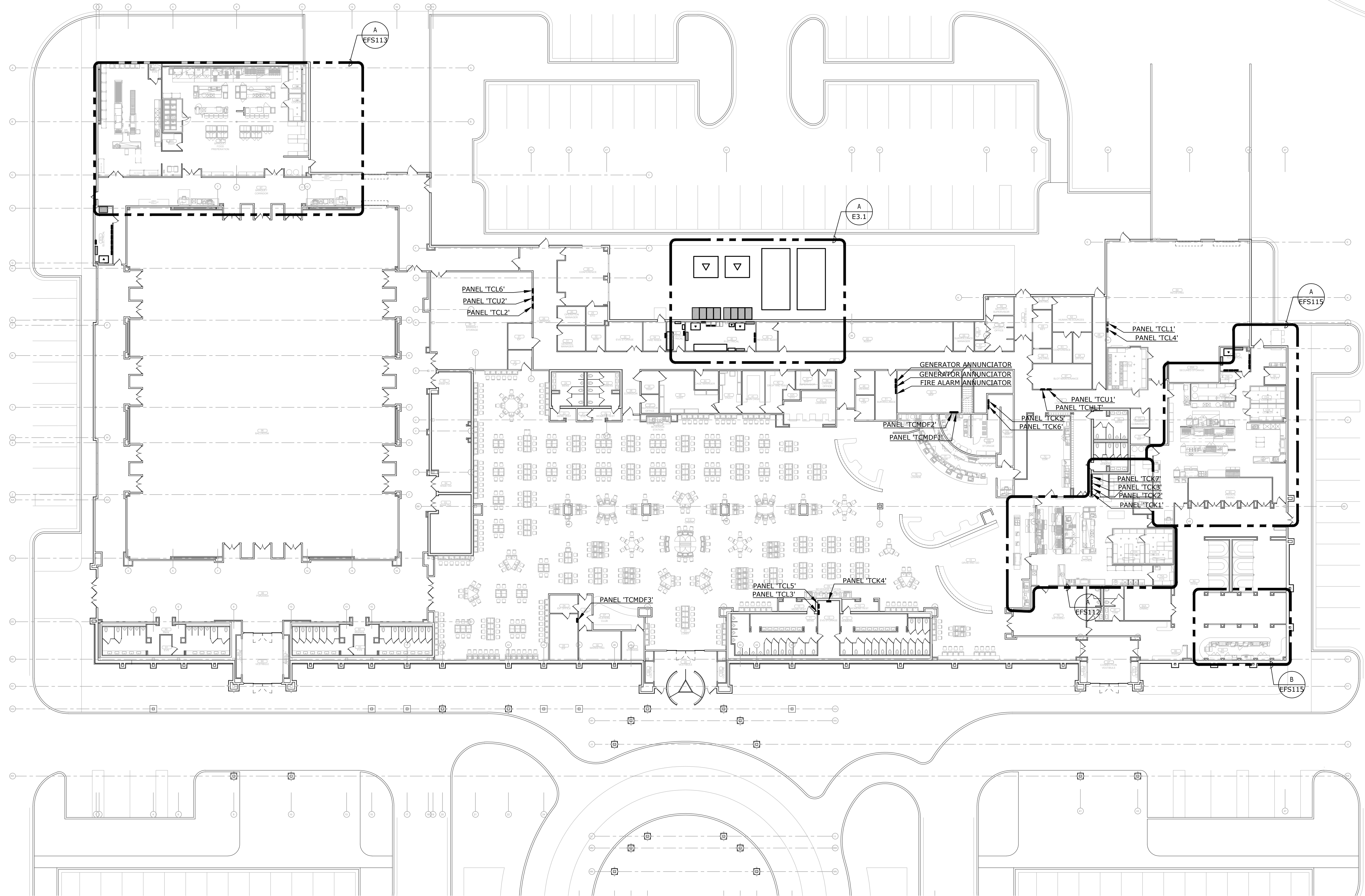
CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
BID PACKAGE 02
(100% SET)

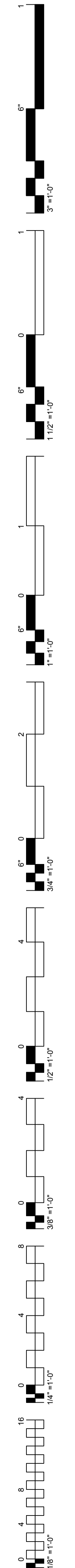
REVISIONS	
#	DESCRIPTION

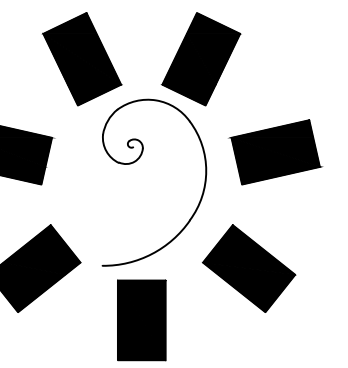
DATE: 03/27/18
JOB NUMBER: 17-06

SHEET NUMBER:
E1.0
ELECTRICAL
OVERVIEW PLAN



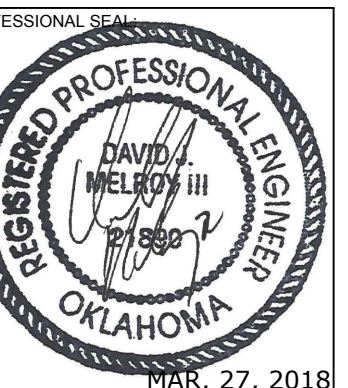
A
E1.0
ELECTRICAL OVERVIEW PLAN
3/64" = 1'-0"
NORTH





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Entertainment



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TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
BID PACKAGE 02
(100% SET)

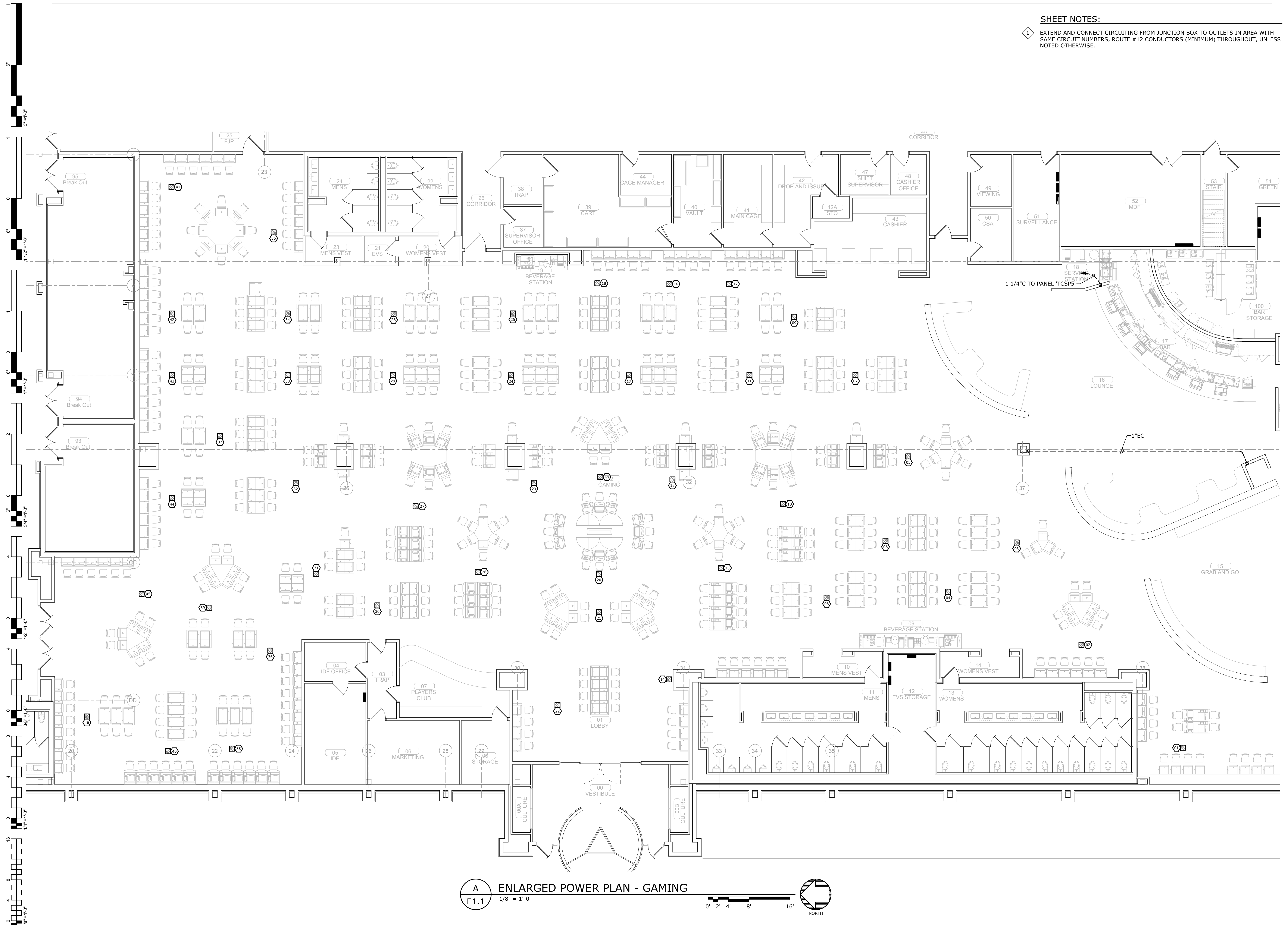
REVISIONS	
#	DESCRIPTION

DATE: 03/27/18
JOB NUMBER: 17-06

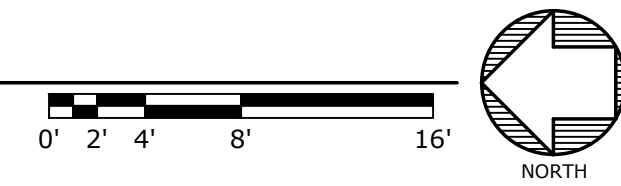
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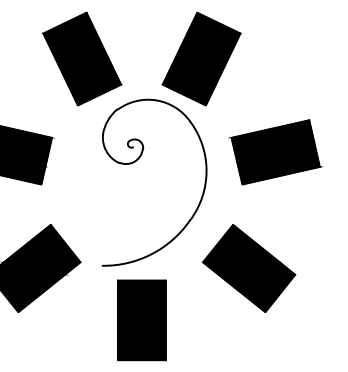
ENLARGED POWER PLAN - GAMING

SHEET NOTES:
EXTEND AND CONNECT CIRCUITING FROM JUNCTION BOX TO OUTLETS IN AREA WITH SAME CIRCUIT NUMBERS, ROUTE #12 CONDUCTORS (MINIMUM) THROUGHOUT, UNLESS NOTED OTHERWISE.



A ENLARGED POWER PLAN - GAMING
E1.1 1/8" = 1'-0"





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TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:

BID PACKAGE 02
(100% SET)

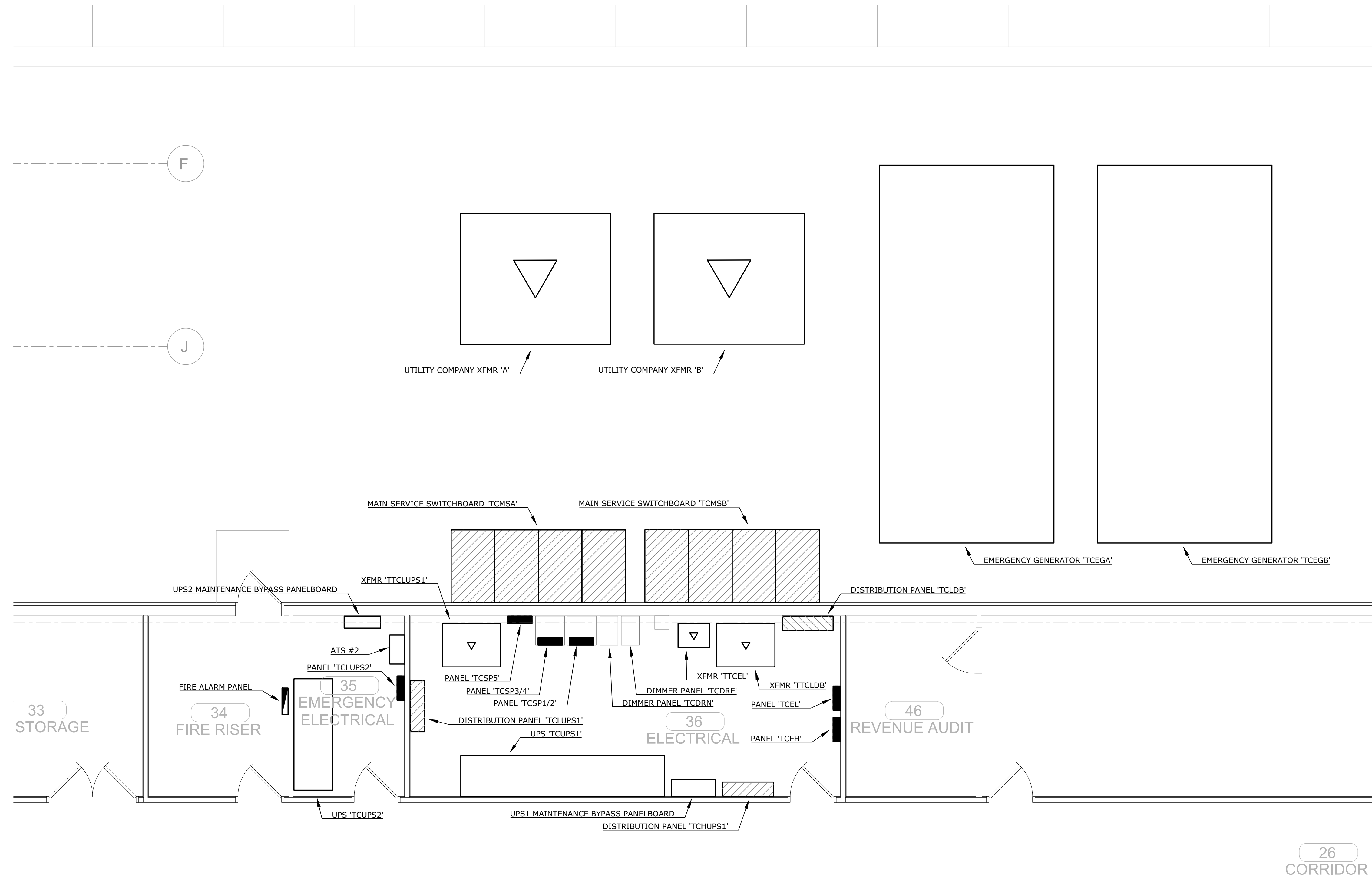
REVISIONS	
#	DESCRIPTION

DATE: 03/27/18 JOB NUMBER: 17-06

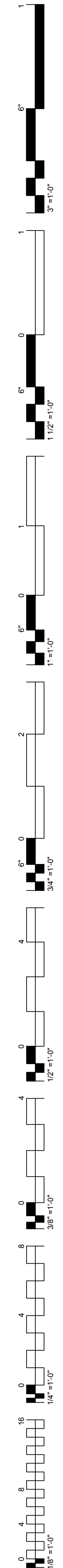
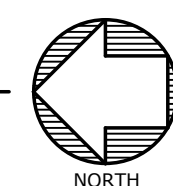
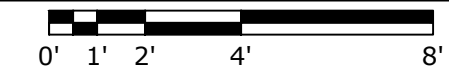
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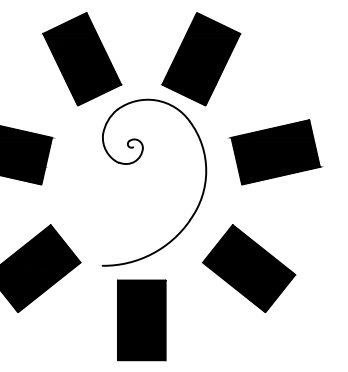
E3.1

ENLARGED
ELECTRICAL ROOM
PLAN



A ENLARGED ELECTRICAL ROOM PLAN
E3.1 1/4" = 1'-0"





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PROJECT PHASE:

BID PACKAGE 02
(100% SET)

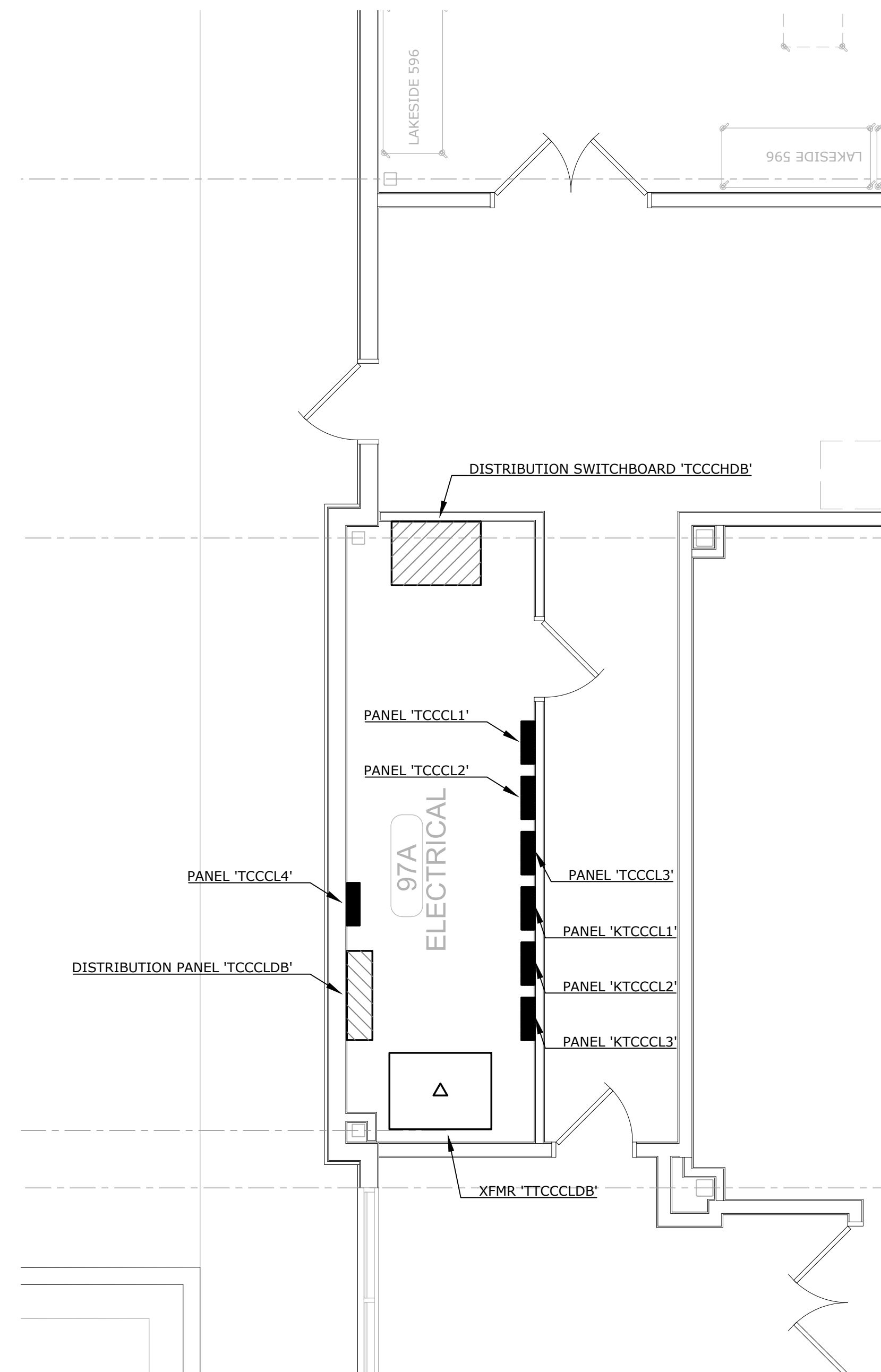
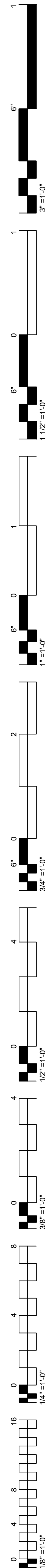
REVISIONS	
#	DESCRIPTION

DATE: 03/27/18 JOB NUMBER: 17-06

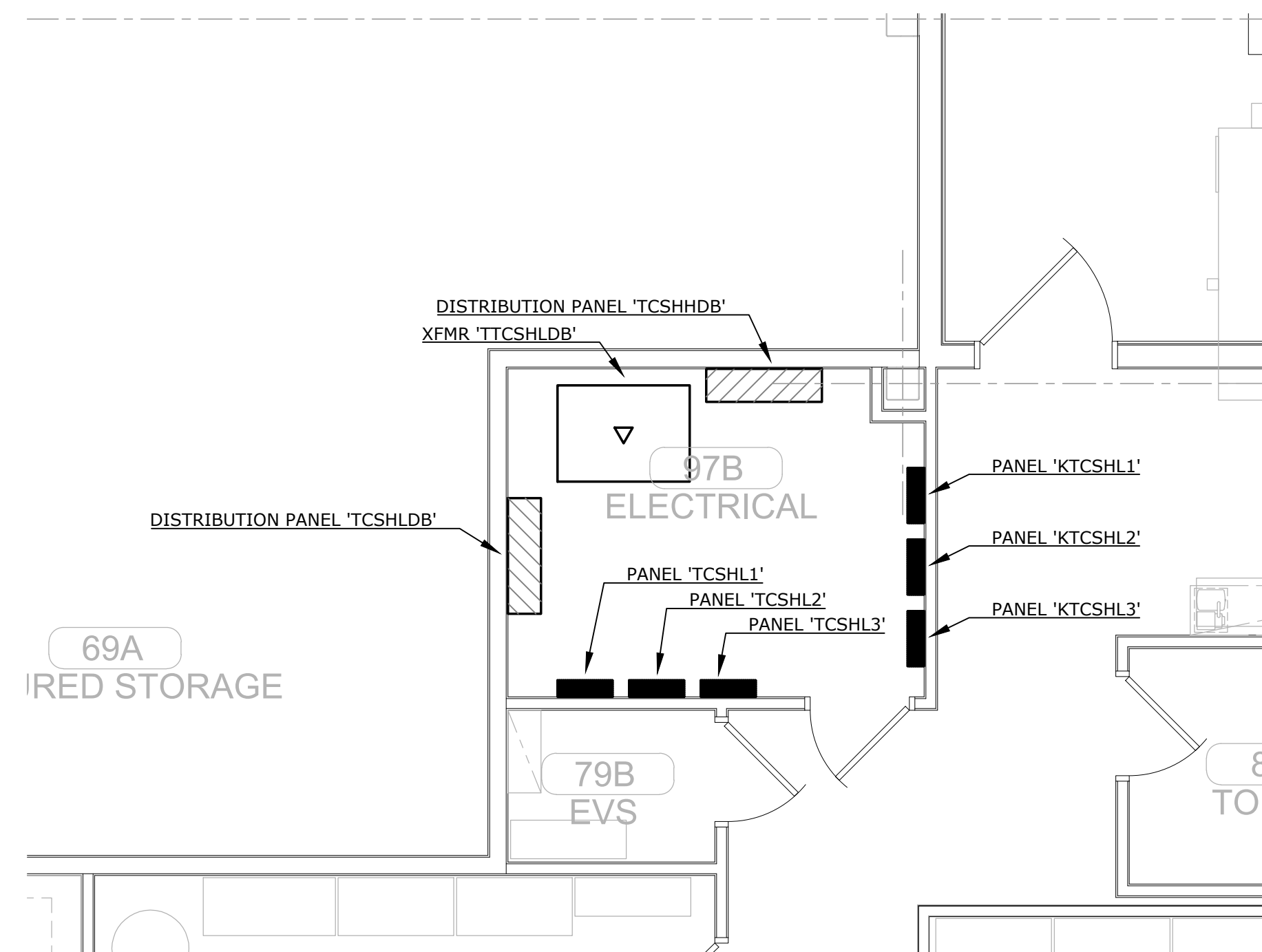
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E3.2

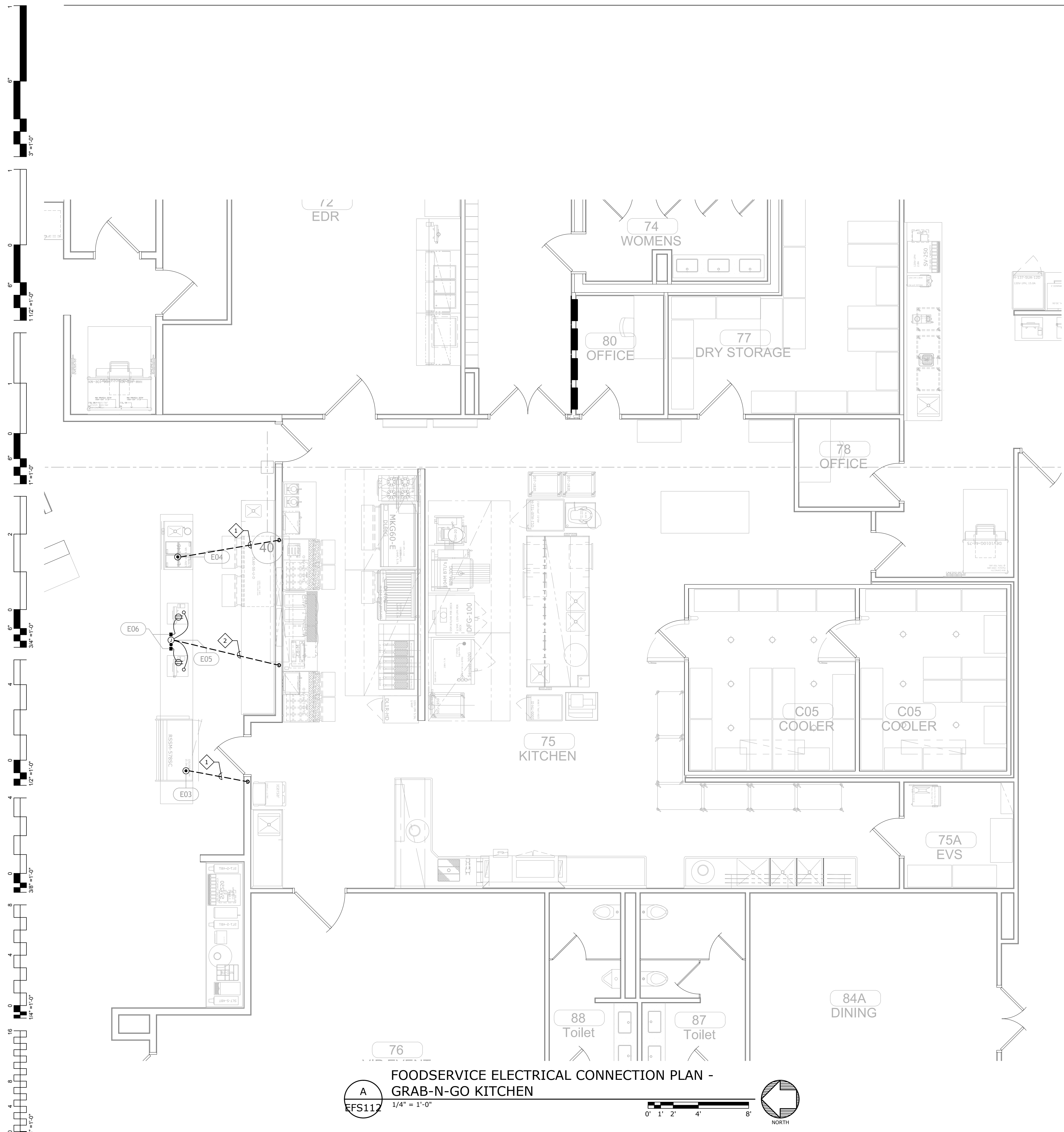
ENLARGED
ELECTRICAL ROOM
PLANS



A ENLARGED ELECTRICAL ROOM PLAN
E3.2 1/4" = 1'-0"
0' 1' 2' 4' 8'
NORTH



B ENLARGED ELECTRICAL ROOM PLAN
E3.2 1/4" = 1'-0"
0' 1' 2' 4' 8'
NORTH



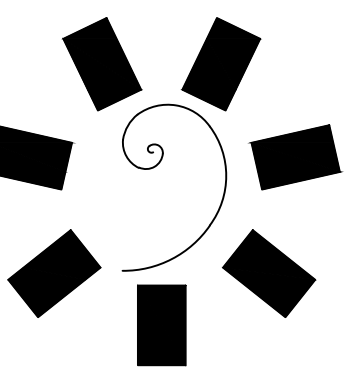
A
FFS112 1/4" = 1'-0"
FOODSERVICE ELECTRICAL CONNECTION PLAN - GRAB-N-GO KITCHEN
 0' 1' 2' 4' 8'
 NORTH

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR FOOD SERVICE SYSTEM NOTES.

SHEET NOTES:

1. ROUTE 1" EMPTY CONDUIT IN SLAB WITH 6" STUB UP AT EACH END FOR FUTURE EXTENSION AND CIRCUITING.
2. ROUTE (2) 1" EMPTY CONDUITS IN SLAB WITH 6" STUB UP AT EACH END FOR FUTURE EXTENSION AND CIRCUITING.



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CLIENT:
CHEROKEE NATION Entertainment
Cherokee CASINO

**CHEROKEE NATION ENTERTAINMENT
 TAHLEQUAH CASINO**
 TAHLEQUAH, OKLAHOMA

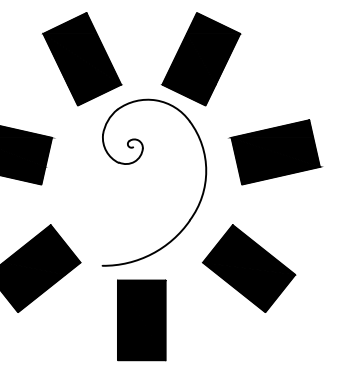
PROJECT PHASE:
**BID PACKAGE 02
 (100% SET)**

REVISIONS	
#	DESCRIPTION

DATE: 03/27/18
 JOB NUMBER: 17-06

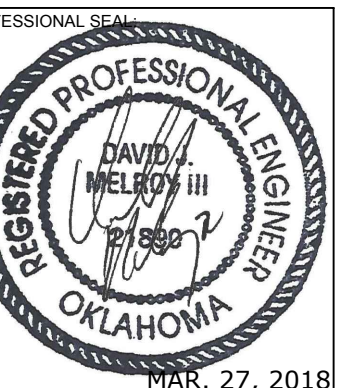
SHEET NUMBER:
EFS112

FOODSERVICE ELECTRICAL CONNECTION PLAN



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CLIENT:
CHEROKEE NATION
Entertainment



CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
BID PACKAGE 02
(100% SET)

REVISIONS	
#	DESCRIPTION

DATE: 03/27/18
JOB NUMBER: 17-06

SHEET NUMBER:

EFS113

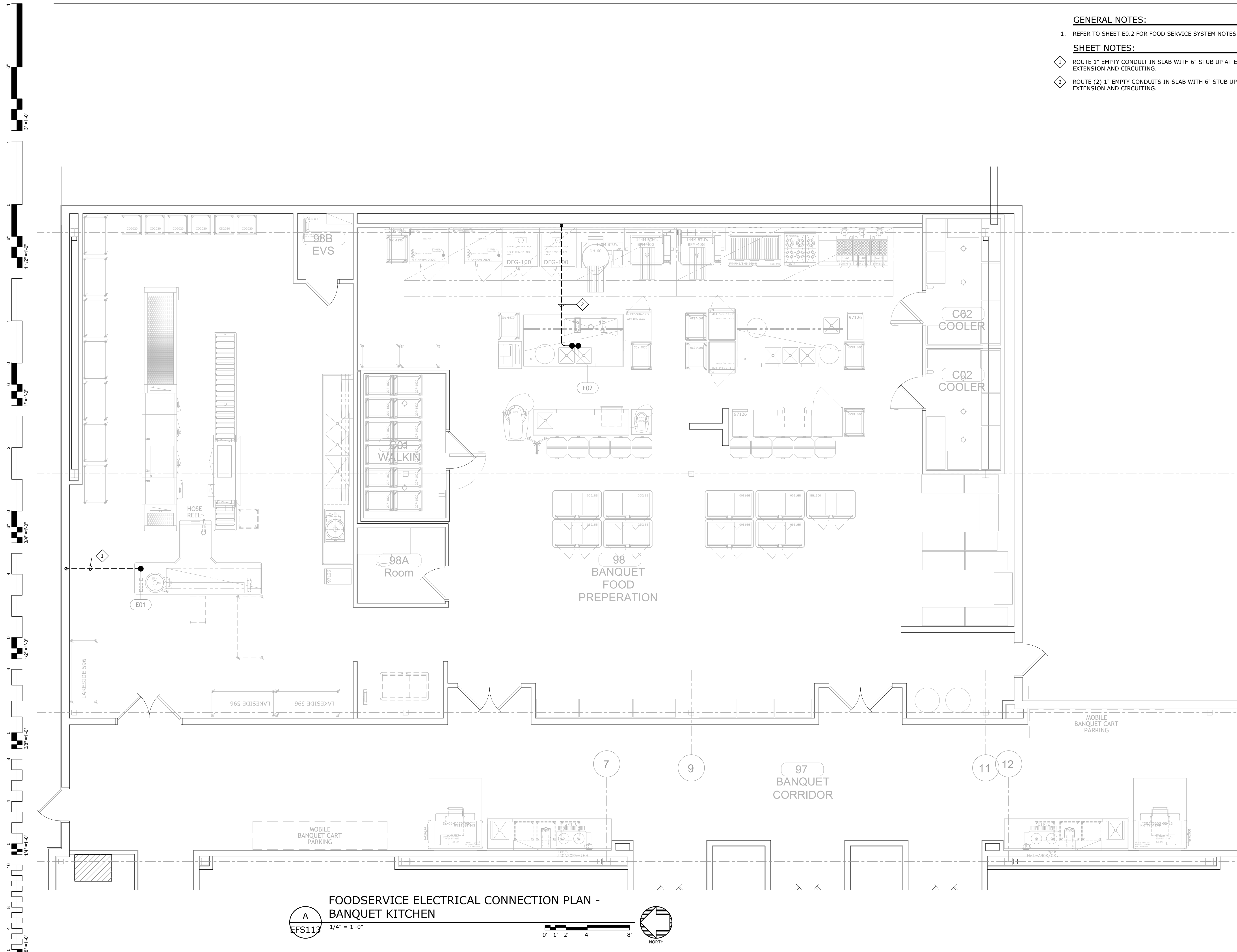
FOODSERVICE
ELECTRICAL
CONNECTION PLAN

GENERAL NOTES:

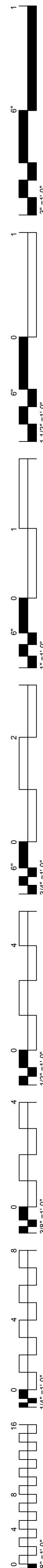
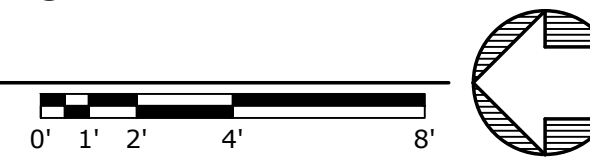
- REFER TO SHEET E0.2 FOR FOOD SERVICE SYSTEM NOTES.

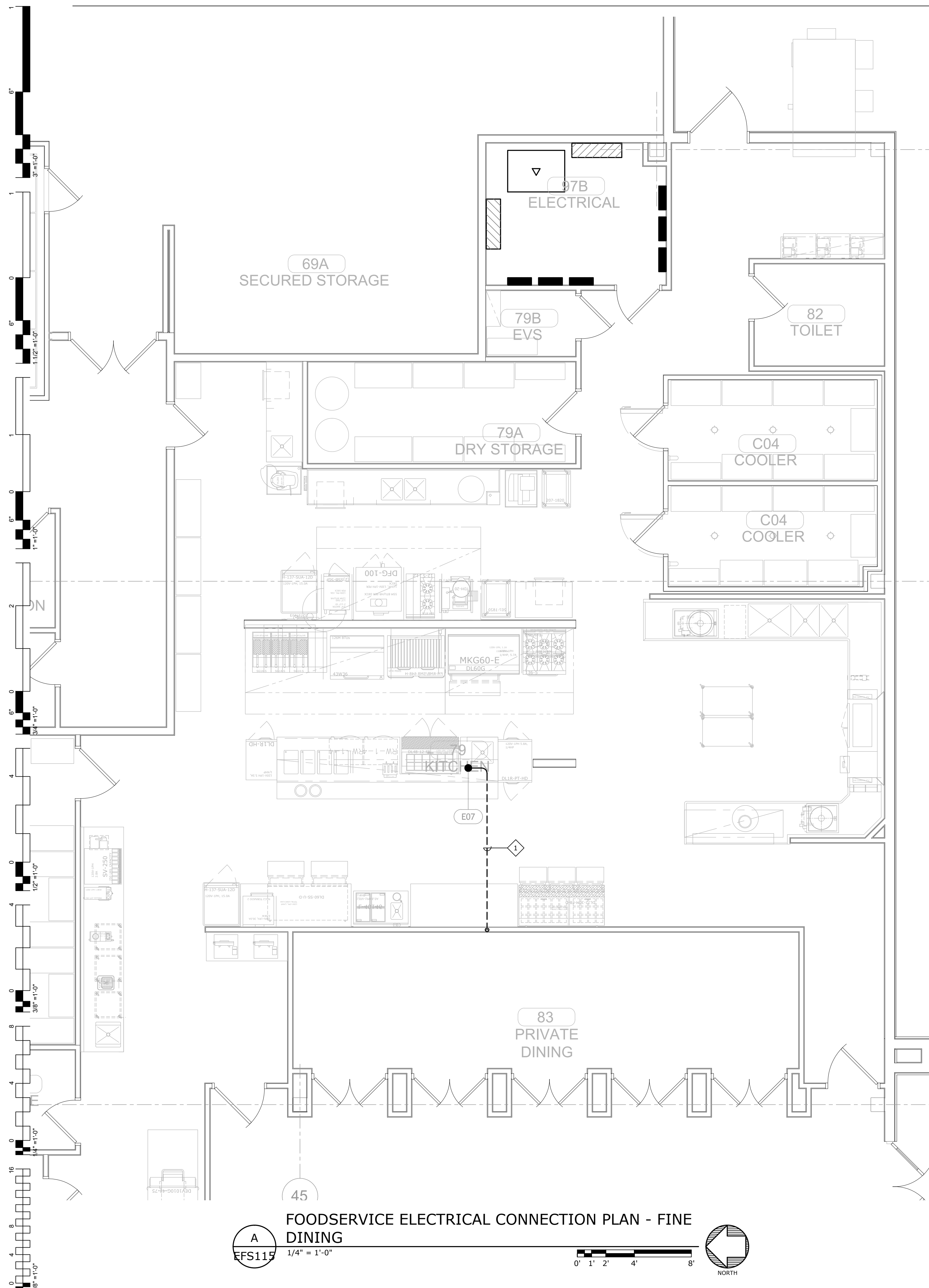
SHEET NOTES:

- ROUTE 1" EMPTY CONDUIT IN SLAB WITH 6" STUB UP AT EACH END FOR FUTURE EXTENSION AND CIRCUITING.
- ROUTE (2) 1" EMPTY CONDUITS IN SLAB WITH 6" STUB UP AT EACH END FOR FUTURE EXTENSION AND CIRCUITING.

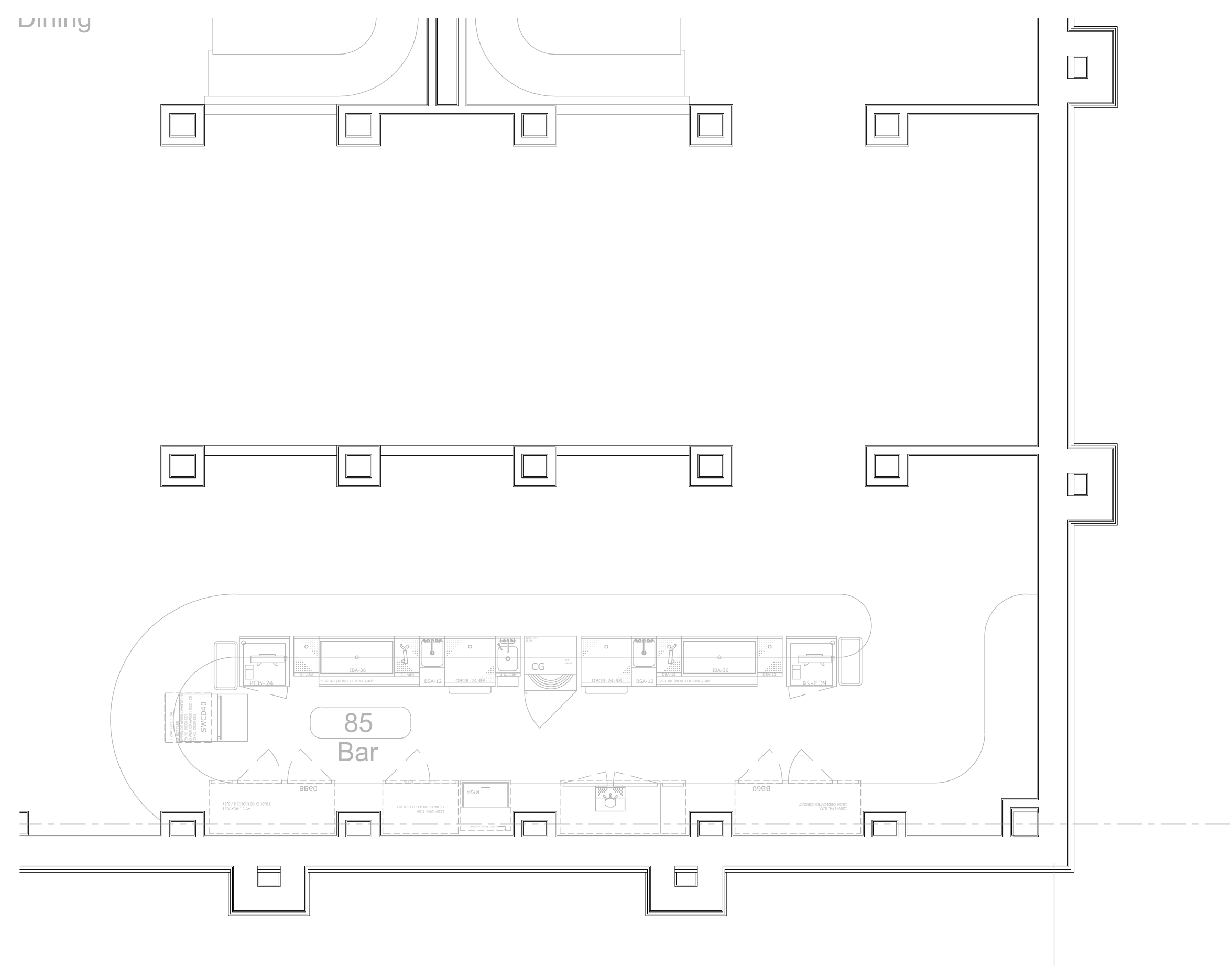


**FOODSERVICE ELECTRICAL CONNECTION PLAN -
BANQUET KITCHEN**
A
EFS113 1/4" = 1'-0"





A
EFS115
FOODSERVICE ELECTRICAL CONNECTION PLAN - FINE DINING
1/4" = 1'-0"



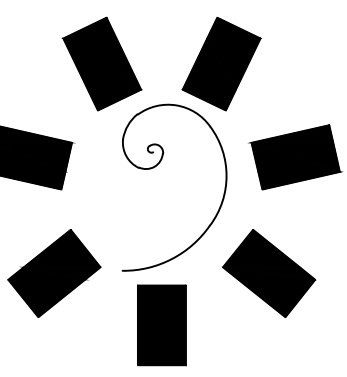
B
EFS115
FOODSERVICE ELECTRICAL CONNECTION PLAN - FINE DINING BAR
1/4" = 1'-0"

GENERAL NOTES:

1. REFER TO SHEET E0.2 FOR FOOD SERVICE SYSTEM NOTES.

SHEET NOTES:

1. ROUTE 1" EMPTY CONDUIT IN SLAB WITH 6" STUB UP AT EACH END FOR FUTURE EXTENSION AND CIRCUITING.



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CLIENT:
**CHEROKEE NATION
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**Cherokee
CASINO**

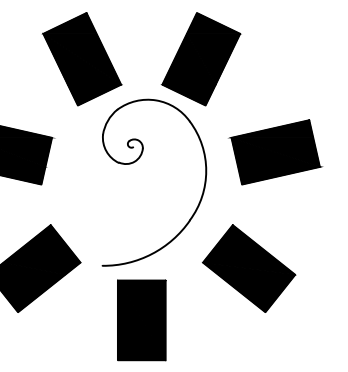
**CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO**
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
**BID PACKAGE 02
(100% SET)**

REVISIONS		
#	DATE	DESCRIPTION

DATE: 03/27/18
JOB NUMBER: 17-06

SHEET NUMBER:
EFS115
FOODSERVICE
ELECTRICAL
CONNECTION PLAN



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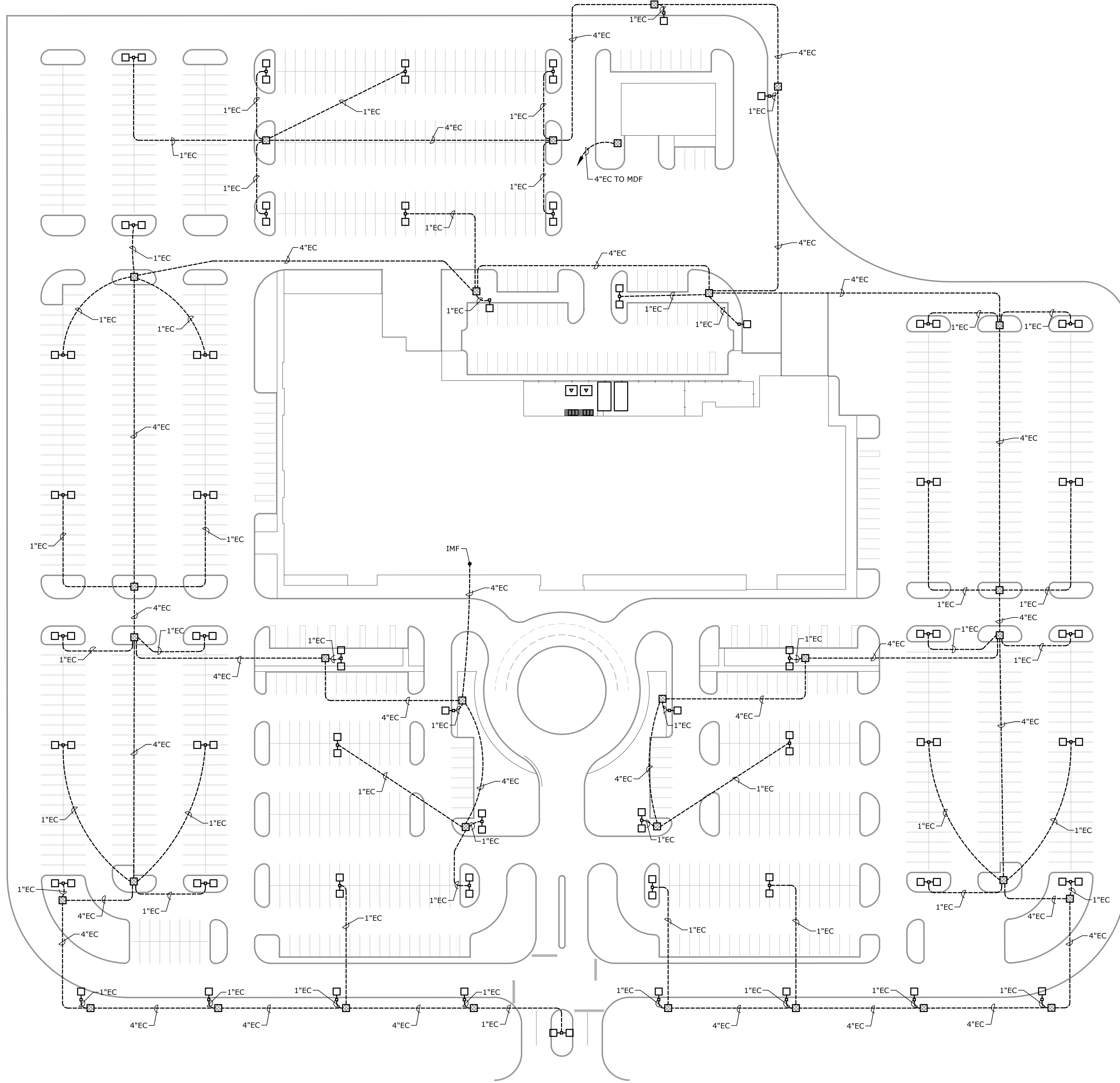
CHEROKEE NATION ENTERTAINMENT
TAHLEQUAH CASINO
TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
BID PACKAGE 02
(100% SET)

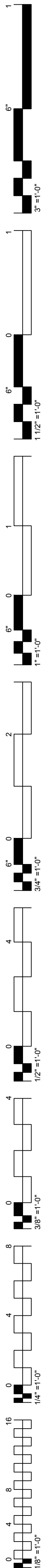
REVISIONS	
#	DESCRIPTION

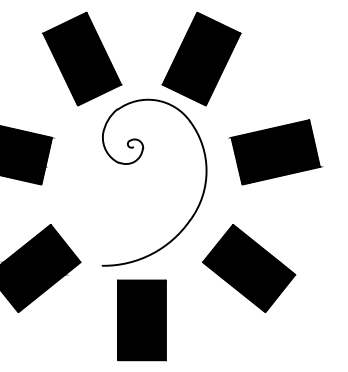
DATE: 03/27/18
JOB NUMBER: 17-06

SHEET NUMBER:
ES1.0A
ELECTRICAL SITE PLAN - CCTV INFRASTRUCTURE



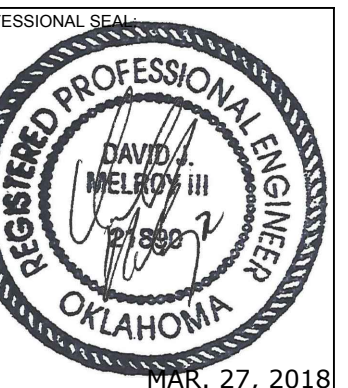
A
ES1.0A 1" = 50'-0" NORTH





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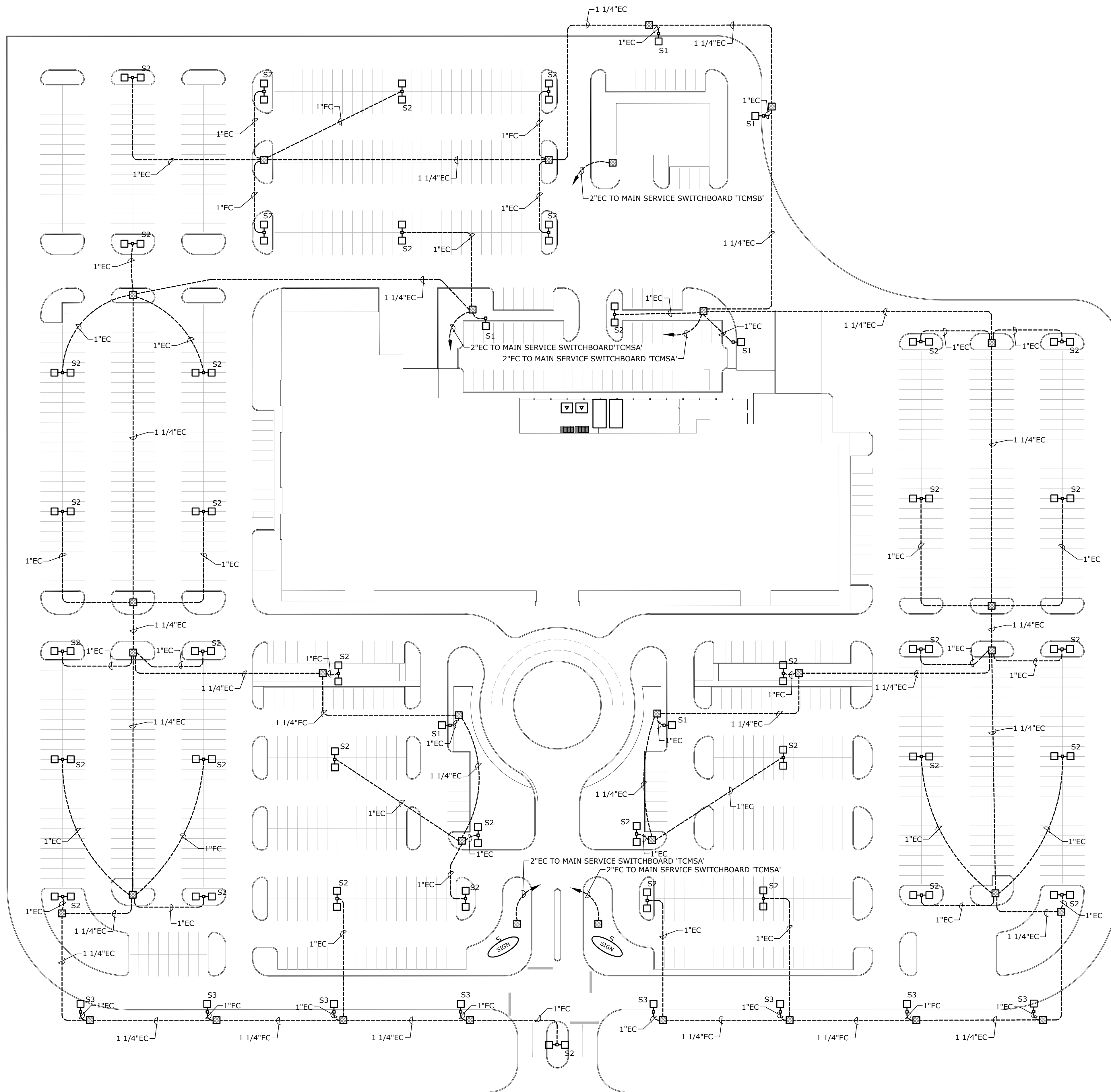
CHEROKEE NATION ENTERTAINMENT
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TAHLEQUAH, OKLAHOMA

PROJECT PHASE:
BID PACKAGE 02
(100% SET)

REVISIONS	
#	DESCRIPTION

DATE: 03/27/18
JOB NUMBER: 17-06

SHEET NUMBER:
ES1.0
ELECTRICAL SITE PLAN



A ELECTRICAL SITE PLAN
ES1.0 1" = 50'-0"

