

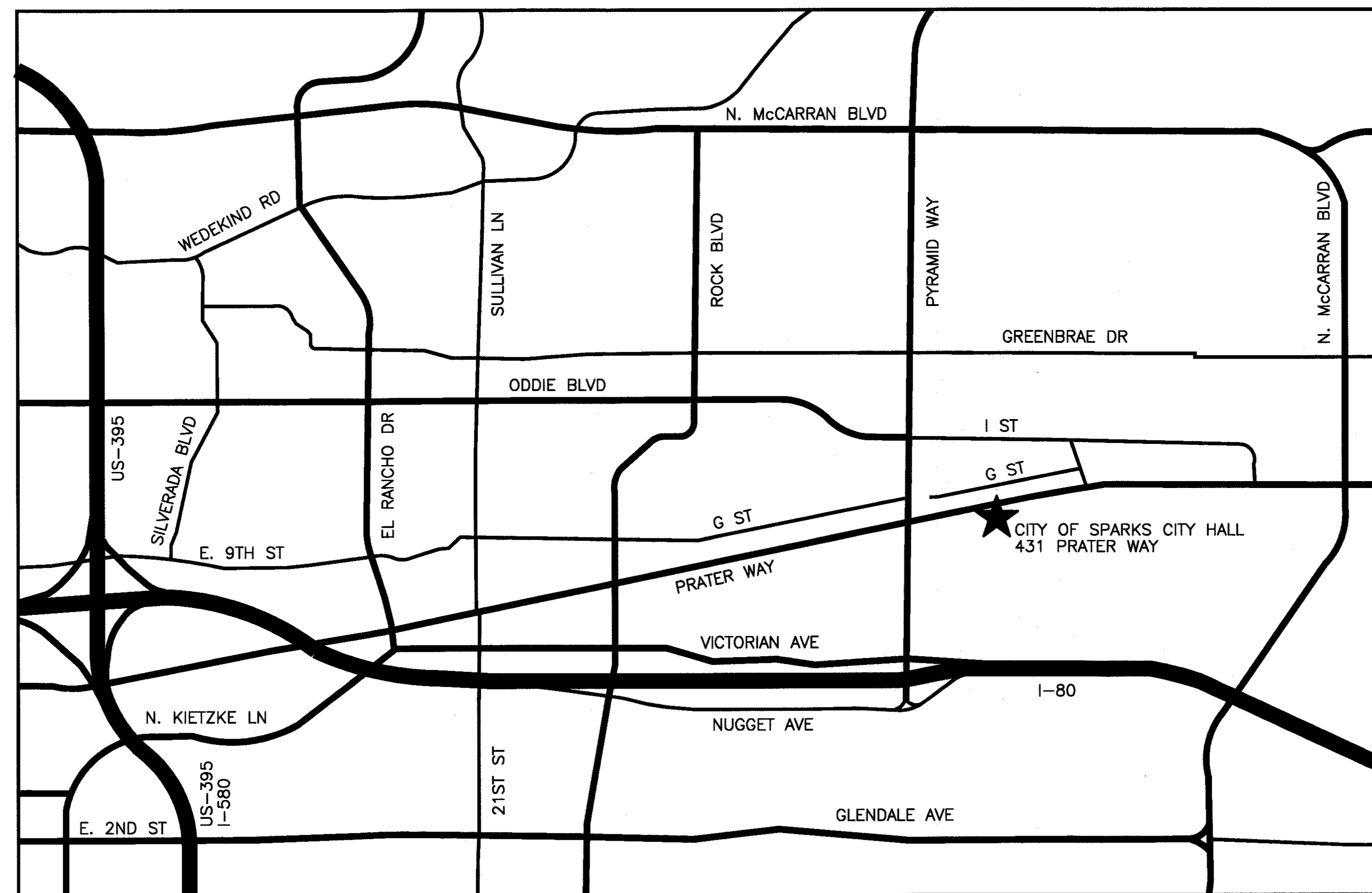
CITY OF SPARKS CITY HALL ELECTRICAL UPGRADE 431 PRATER WAY PWP #WA-2013-292 JULY, 2013

SHEET INDEX

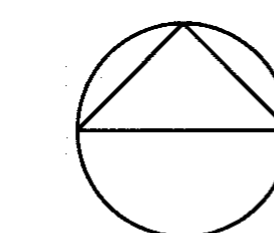
SHEET NO.	DRAWING NO.	DESCRIPTION
1	C0.1	TITLE SHEET
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4	E1.2	EXISTING SINGLE LINE
5	E1.3	PHASE 1B SINGLE LINE
6	E1.4	NEW SINGLE LINE
7	E1.5	NEW SINGLE LINE
8	E2.0	ROOM NUMBERS
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16	E3.6	PHASE 4 PLAN
17	E3.7	PHASE 5 PLAN
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20	E3.10	PHASE 8, 11-17 PLAN
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22	E3.12	PHASE 10 PLAN
23	E4.1	EXISTING ELECTRICAL OUTLET PLAN
24	E4.2	NEW ELECTRICAL OUTLET PLAN

CITY OF SPARKS OFFICIALS

GENO MARTINI	.....	MAYOR
JULIA RATTI	.....	COUNCIL MEMBER WARD 1
ED LAWSON	.....	COUNCIL MEMBER WARD 2
RON SMITH	.....	COUNCIL MEMBER WARD 3
MIKE CARRIGAN	.....	COUNCIL MEMBER WARD 4
RON SCHMITT	COUNCIL MEMBER WARD 5
SHAUN CAREY	CITY MANAGER



VICINITY MAP



PROJECT NORTH

ENGINEER

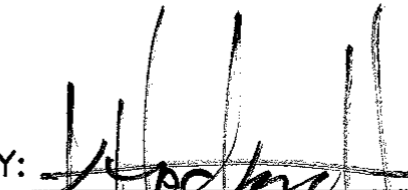


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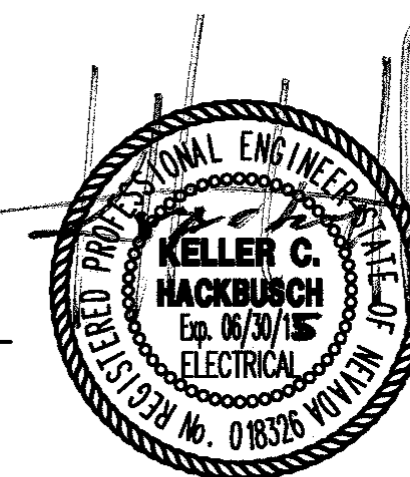
Web: dinter.com

APPROVED BY: 
NEIL KRUTZ, P.E.
DEPUTY CITY MANAGER

DATE: 7/8/13

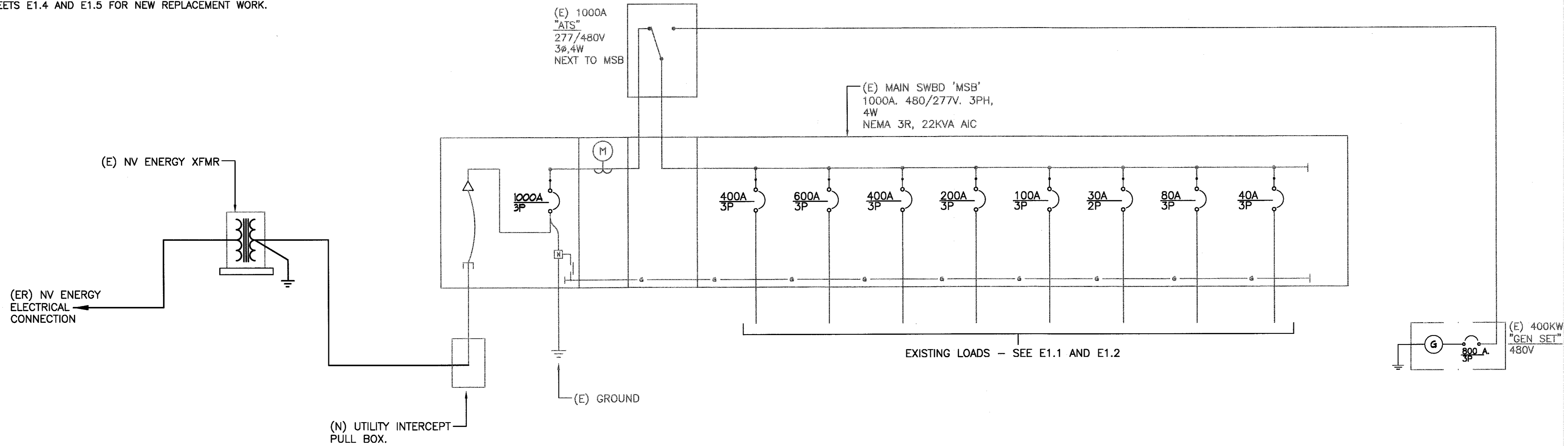
APPROVED BY: 
KELLER HACKBUSCH, P.E.
DINTER ENGINEERING

DATE: 7.8.13

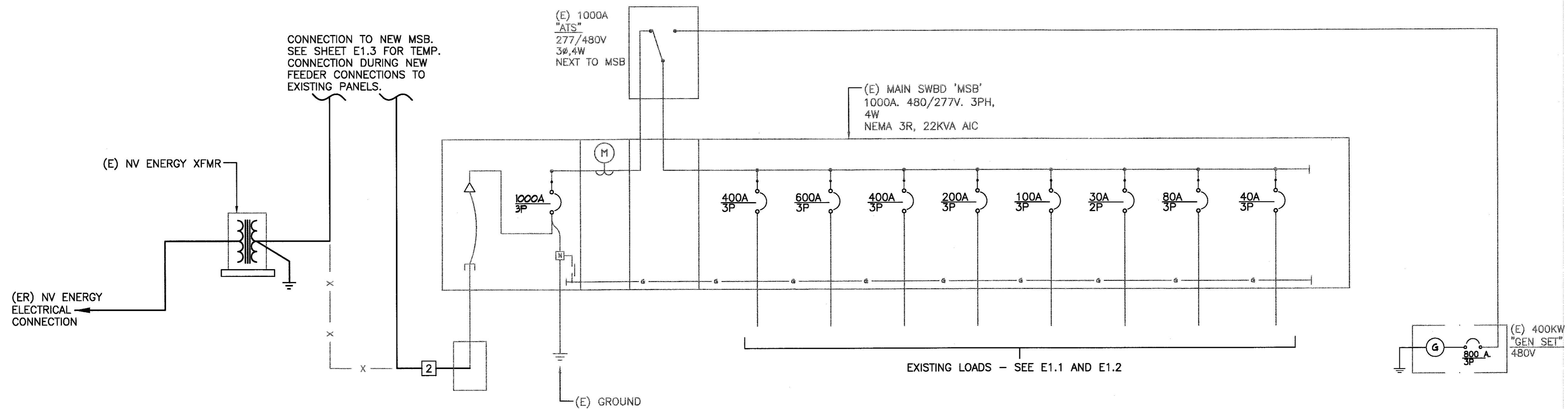


C0.1

- NOTES:
1. THIS PLAN INDICATES WORK REQUIRED UNDER PHASE 1b WORK TO PROVIDE TEMPORARY SERVICE TO EXISTING MAIN SERVICE SWITCHBOARD.
 2. REFER TO SHEETS E1.4 AND E1.5 FOR NEW REPLACEMENT WORK.

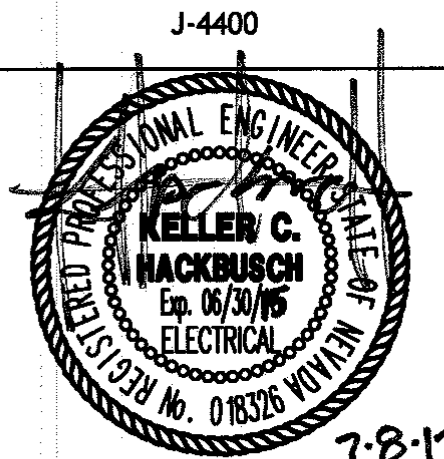


1 EXISTING ELECTRICAL SINGLE LINE PHASE 1B MODIFICATION 1 DIAGRAM
SCALE: NTS



2 EXISTING ELECTRICAL SINGLE LINE PHASE 1B MODIFICATION 2 DIAGRAM
SCALE: NTS

BID DOCUMENTS
07-05-2013



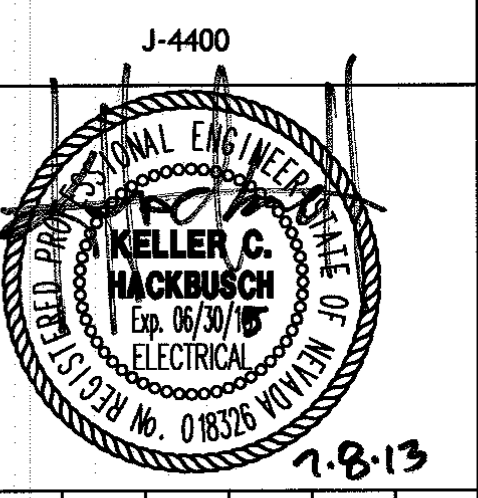
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CITY OF SPARKS
CITY HALL ELECTRICAL
UPGRADE
431 PRATER WAY
SPARKS, NEVADA 89432

DESIGNED BY:	PKH	DATE:	06/19/13
DRAWN BY:	GLR		
CHECKED BY:	PKH/KCH		

ELECTRICAL
PHASE 1B SINGLE LINE

E1.3

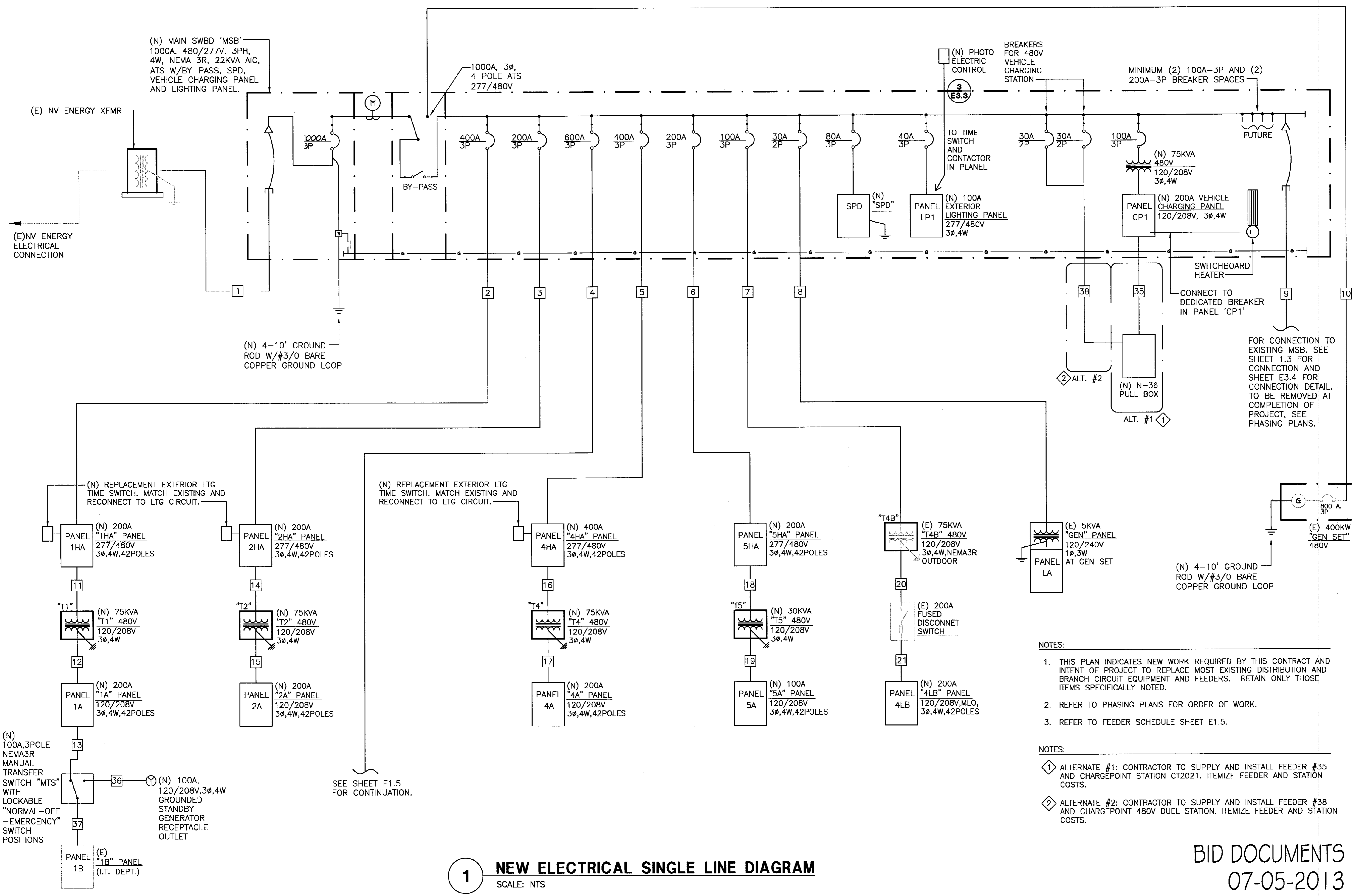


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 SPARKS, NEVADA 89432**

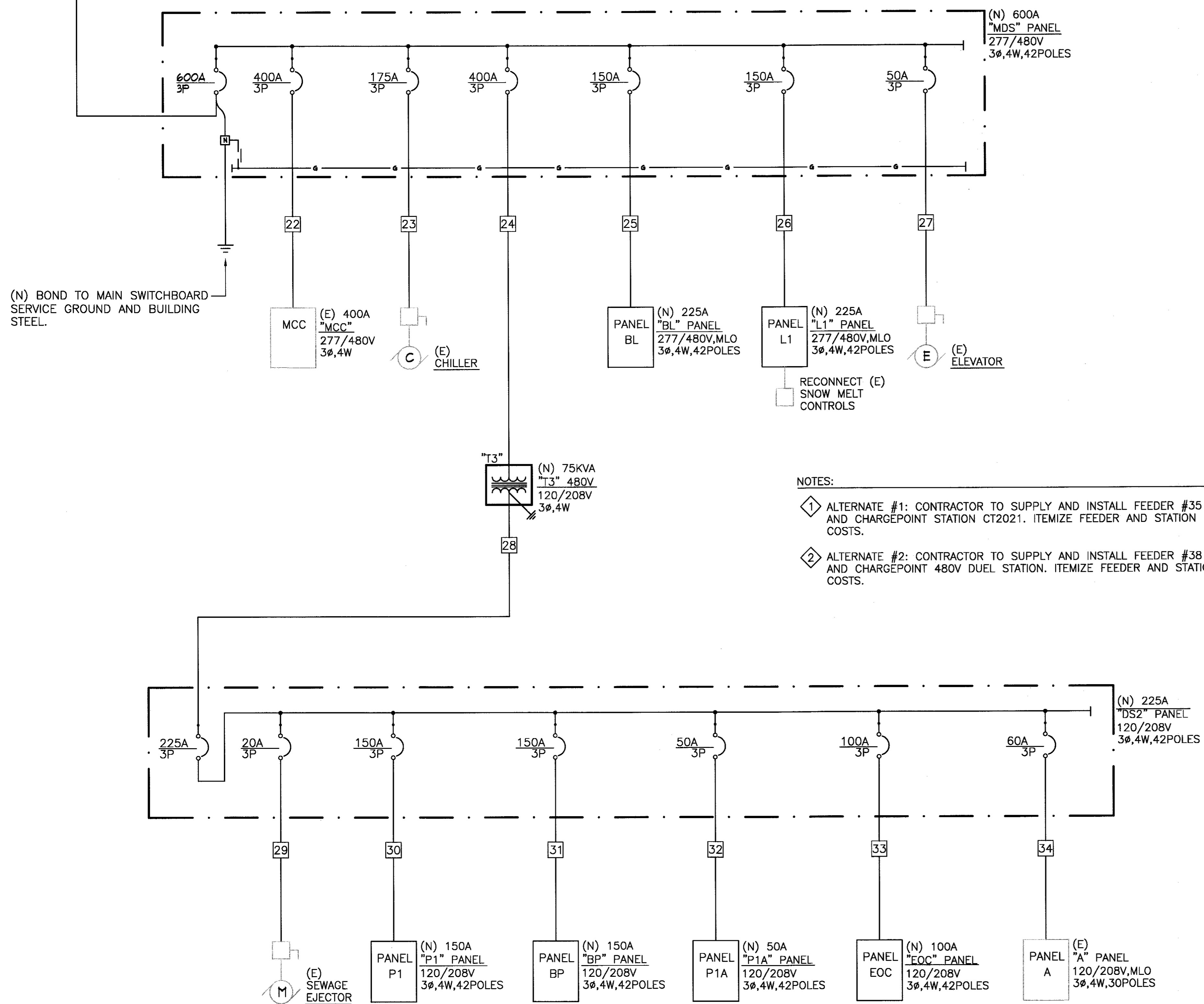
DESIGNED BY:	PKH	DATE:	06/19/13
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**ELECTRICAL
 NEW SINGLE LINE**



1 NEW ELECTRICAL SINGLE LINE DIAGRAM
 SCALE: NTS

SEE SHEET E1.4 FOR CONTINUATION.



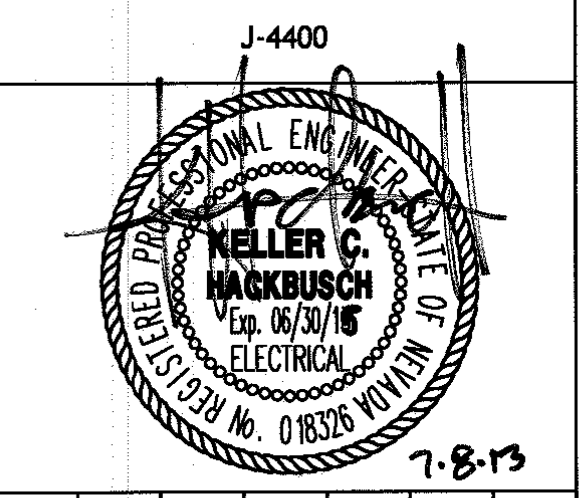
- NOTES:
- ① ALTERNATE #1: CONTRACTOR TO SUPPLY AND INSTALL FEEDER #35 AND CHARGEPOINT STATION CT2021. ITEMIZE FEEDER AND STATION COSTS.
 - ② ALTERNATE #2: CONTRACTOR TO SUPPLY AND INSTALL FEEDER #38 AND CHARGEPOINT 480V DUEL STATION. ITEMIZE FEEDER AND STATION COSTS.

FEEDER SCHEDULE

NO.	FROM	TO	CONDUIT & WIRE THWN U.N.O.	CU	AL
1	NVE XFMR	MSB	(4) 4"E.C. WIRE BY NVE.		
2	MSB	PANEL "1HA"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
3	MSB	PANEL "2HA"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
4	MSB	PANEL "MDS"	2 PAIR OF: (4) #500KCMIL W/ (1) #3CU GND - 4"C	X	
5	MSB	PANEL "4HA"	(4) #500KCMIL W/ (1) #3CU GND - 4"C	X	
6	MSB	PANEL "5HA"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
7	MSB	(E) XFMR "4TB"	(4) #1CU W/ (1) #6CU GND - 2"C	X	
8	MSB	PANEL "GEN"	(4) #10CU W/ (1) #10CU GND - 1/2"C	X	
9	MSB	OLD MSB	TEMP. FOR PHASE CONSTRUCTION: 2 PAIR OF: (4) #750KCMIL W/ (1) #2CU GND - 4"C	X	
10	MSB	(E) GEN SET	2 PAIR OF: (4) #750KCMIL W/ (1) #2CU GND - 4"C	X	
11	PANEL "1HA"	XFMR "T1"	(4) #1CU W/ (1) #6CU GND - 2"C	X	
12	XFMR "T1"	PANEL "1A"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
13	PANEL "1A"	"MTS"	(4) #2CU W/ (1) #8CU GND - 1-1/2"C	X	
14	PANEL "2HA"	XFMR "T2"	(4) #1CU W/ (1) #6CU GND - 2"C	X	
15	XFMR "T2"	PANEL "2A"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
16	PANEL "4HA"	XFMR "T4"	(4) #1CU W/ (1) #6CU GND - 2"C	X	
17	XFMR "T4"	PANEL "4A"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
18	PANEL "5HA"	XFMR "T5"	(4) #8CU W/ (1) #10CU GND - 1"C	X	
19	XFMR "T5"	PANEL "5A"	(4) #2CU W/ (1) #8CU GND - 1-1/2"C	X	
20	(E) XFMR "4TB"	(E) DISCONNECT SWITCH	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
21	(E) DISCONNECT SWITCH	PANEL "4LB"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
22	PANEL "MDS"	PANEL "MCC"	(4) #500KCMIL W/ (1) #3CU GND - 4"C	X	
23	PANEL "MDS"	(E) CHILLER	(4) #2/OCU W/ (1) #6CU GND - 1-1/2"C	X	
24	PANEL "MDS"	XFMR "T3"	(4) #1CU W/ (1) #6CU GND - 2"C	X	
25	PANEL "MDS"	PANEL "BL"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
26	PANEL "MDS"	PANEL "L1"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
27	PANEL "MDS"	(E) ELEVATOR	(4) #8CU W/ (1) #10CU GND - 3/4"C	X	
28	XFMR "T3"	PANEL "DS2"	(4) #4/OCU W/ (1) #6CU GND - 2"C	X	
29	PANEL "DS2"	(E) SEWAGE EJECTOR	(4) #12CU W/ (1) #12CU GND - 3/4"C	X	
30	PANEL "DS2"	PANEL "P1"	(4) #1/OCU W/ (1) #6CU GND - 2"C	X	
31	PANEL "DS2"	PANEL "BP"	(4) #1/OCU W/ (1) #6CU GND - 2"C	X	
32	PANEL "DS2"	PANEL "P1A"	(4) #8CU W/ (1) #10CU GND - 3/4"C	X	
33	PANEL "DS2"	PANEL "EOC"	(4) #2CU W/ (1) #8CU GND - 1-1/2"C	X	
34	PANEL "DS2"	PANEL "A"	(4) #6CU W/ (1) #10CU GND - 1"C	X	
35	MSB	N-36 PULLBOX	(2) 1"EC [BASE BID] (4) #8CU W/ (1) #8CU GND - 1"C & 1"EC ①	X	
36	GEN OUTLET	"MTS"	(4) #2CU W/ (1) #8CU GND - 1-1/2"C	X	
37	"MTS"	(E) PANEL "1B"	(4) #2CU W/ (1) #8CU GND - 1-1/2"C	X	
38	MSB	N-36 PULLBOX	(1) 1"EC [BASE BID] (4) #8CU W/ (1) #8CU GND - 1"C ②		

1 NEW ELECTRICAL SINGLE LINE DIAGRAM
SCALE: NTS

BID DOCUMENTS
07-05-2013

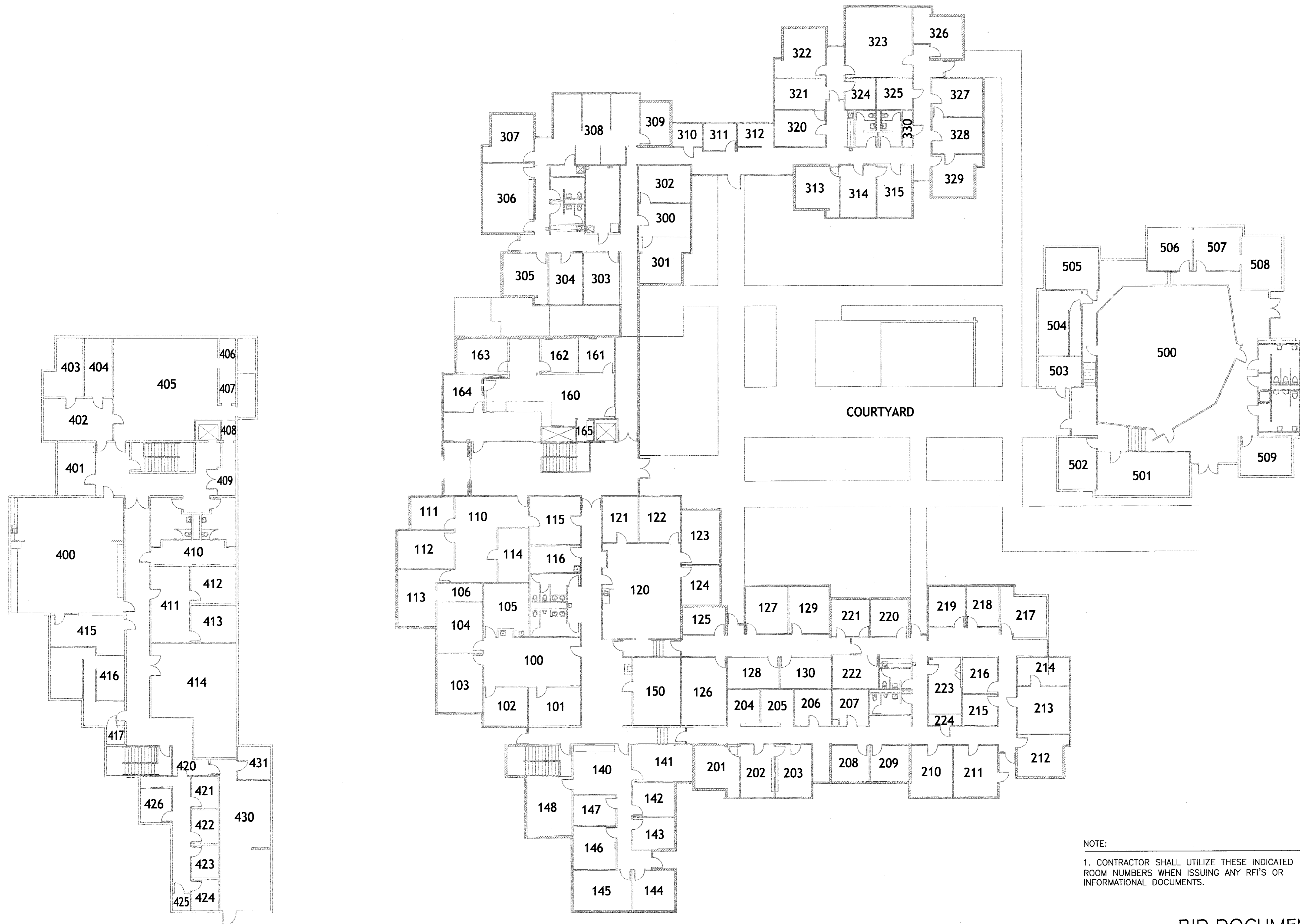
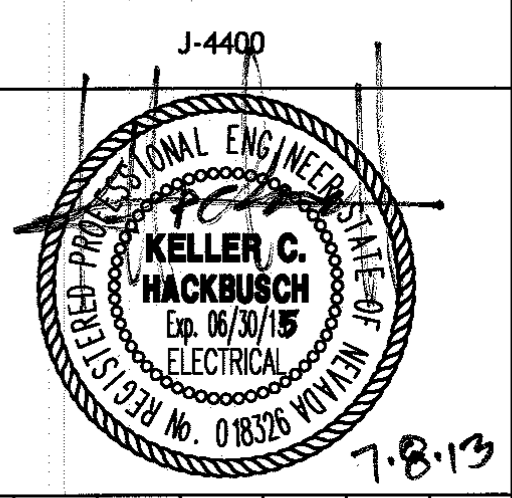


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DESIGNED BY:	PKH
DRAWN BY:	GLR
CHECKED BY:	PKH/KCH
DATE:	06/19/13

ELECTRICAL
NEW SINGLE LINE



1 ROOM NUMBERS
 SCALE: NTS

NOTE:
 1. CONTRACTOR SHALL UTILIZE THESE INDICATED ROOM NUMBERS WHEN ISSUING ANY RFI'S OR INFORMATIONAL DOCUMENTS.

BID DOCUMENTS
 07-05-2013

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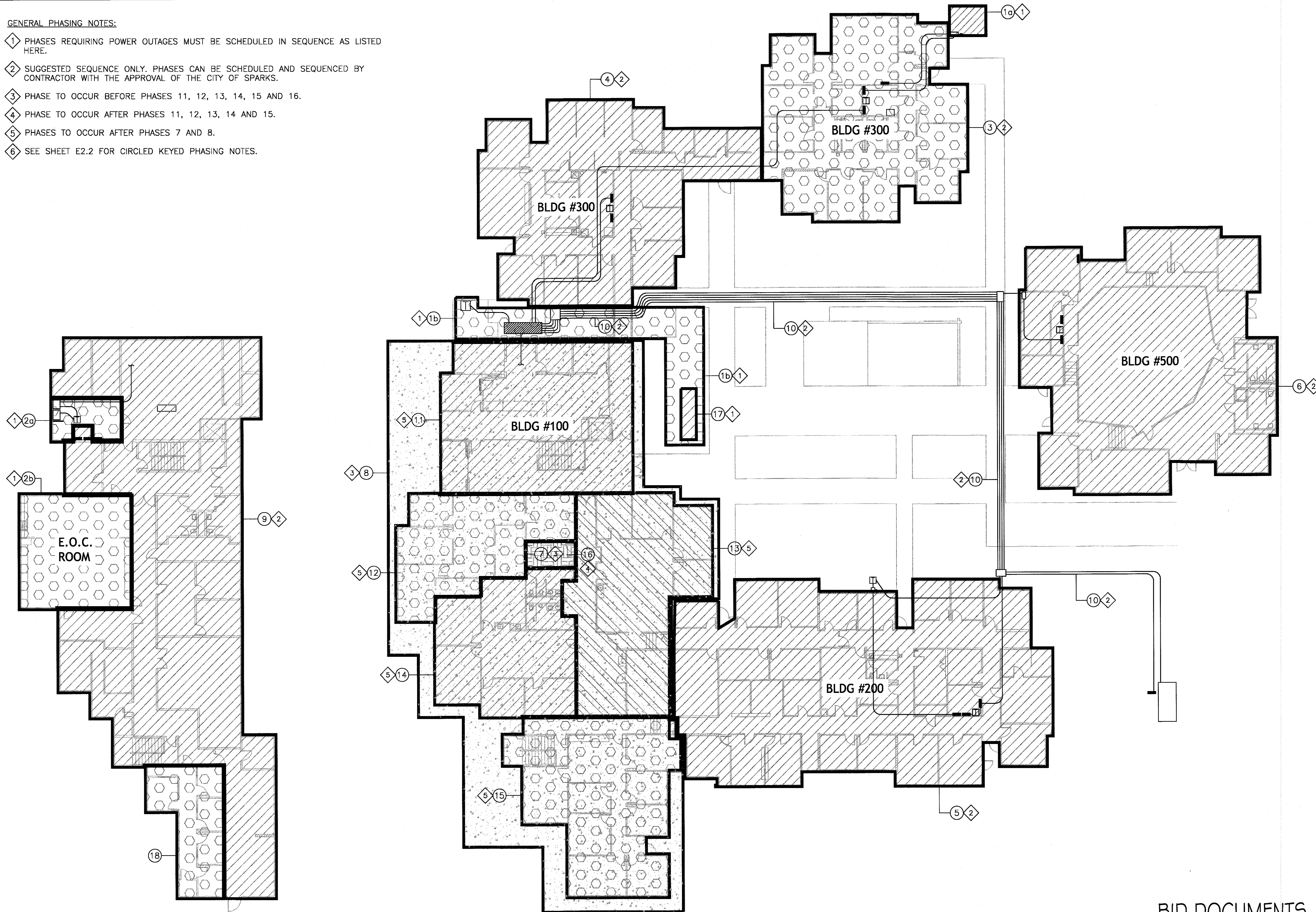
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ELECTRICAL
ROOM NUMBERS

GENERAL PHASING NOTES:

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- ④ PHASE TO OCCUR AFTER PHASES 11, 12, 13, 14 AND 15.
- ⑤ PHASES TO OCCUR AFTER PHASES 7 AND 8.
- ⑥ SEE SHEET E2.2 FOR CIRCLED KEYED PHASING NOTES.

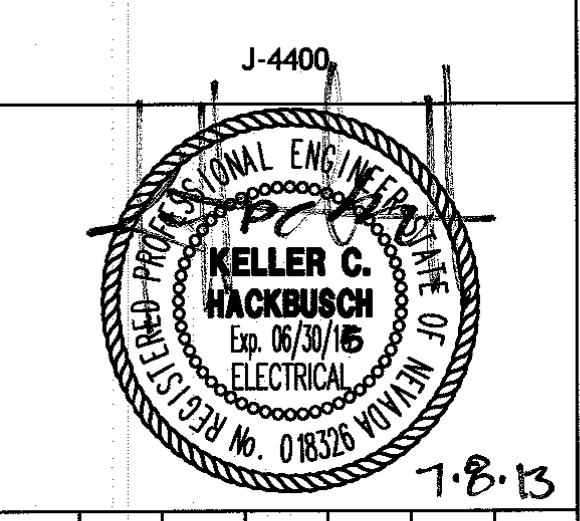


BLDG #400 BASEMENT

1 NEW ELECTRICAL WORK PHASING PLAN
SCALE: NTS

BID DOCUMENTS
07-05-2013

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Fax: 775.826.4190
Web: dinter.com



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431 PRATER WAY
SPARKS, NEVADA 89432

DESIGNED BY:	PKH	DATE:	06/19/13
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CHECKED BY:	PKH/KCH		

ELECTRICAL
NEW ELECTRICAL
PHASING PLAN

E2.1
SHEET 9 OF 24

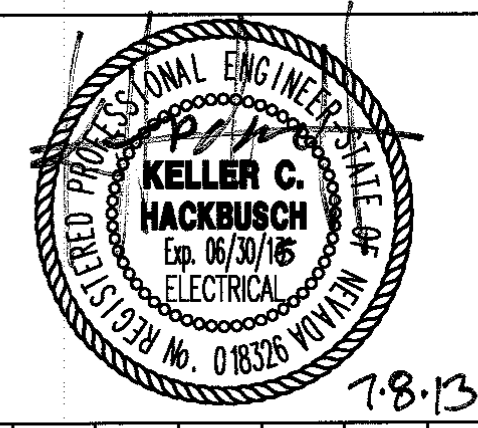
KEYED PHASING NOTES: THESE NOTES CORRESPOND TO THE CIRCLED NOTE INDICATORS ON SHEET E2.1

- ① PHASE 1
 - 1a - INSTALL MANUAL TRANSFER SWITCH AND GENERATOR PLUG WITH FEEDERS TO PANELS FOR IT ROOM TEMPORARY GENERATOR.
 - 1b - INSTALL NEW SERVICE SWITCHGEAR, INTERCEPT AND BACK FEED EXISTING SERVICE SWITCHBOARD. INTERCEPT AND REROUTE NVE SECONDARY SERVICE. INCLUDES COORDINATION WITH NVE.
- ② PHASE 2
 - 2a - INSTALL NEW 277/480V DISTRIBUTION PANEL, NEW 480:120/208V STEP DOWN TRANSFORMER, NEW 120/208V DISTRIBUTION PANEL, PROVIDE CONNECTION TO NEW REPLACEMENT EOC ROOM PANEL.
 - 2b - RECONNECT EOC ROOM EXISTING PLUG STRIPS TO NEW EOC PANEL, REPLACE POWER AND DATA CEILING DROPS WITH NEW RETRACTABLE REELS.
- ③ PHASE 3
 - 3a - CONTRACTOR TO "RING-OUT" EXISTING RECEPTACLE CIRCUITS.
 - 3b - INSTALL 277/480V AND 120/208V REPLACEMENT PANELS AND 480:120/208V STEP DOWN TRANSFORMER.
 - 3c - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 3d - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
- ④ PHASE 4
 - 4a - CONTRACTOR TO "RING-OUT" EXISTING RECEPTACLE CIRCUITS.
 - 4b - INSTALL 277/480V AND 120/208V REPLACEMENT PANELS AND 480:120/208V STEP DOWN TRANSFORMER.
 - 4c - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 4d - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
- ⑤ PHASE 5
 - 5a - CONTRACTOR TO "RING-OUT" EXISTING RECEPTACLE CIRCUITS.
 - 5b - INSTALL 277/480V AND 120/208V REPLACEMENT PANELS AND 480:120/208V STEP DOWN TRANSFORMER.
 - 5c - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 5d - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
 - 5e - DEMOLISH EXISTING PANELS IN ROOM #223 AND REPAIR WALL TO MATCH, AND DEMOLISH EXISTING TRANSFORMERS AND RESTORE IN ROOM #224.
- ⑥ PHASE 6
 - 6a - CONTRACTOR TO "RING-OUT" EXISTING RECEPTACLE CIRCUITS.
 - 6b - INSTALL 277/480V AND 120/208V REPLACEMENT PANELS AND 480:120/208V STEP DOWN TRANSFORMER.
 - 6c - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 6d - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
- ⑦ PHASE 7
 - 7 - INSTALL 277/480V AND 120/208V REPLACEMENT PANELS FED FROM NEW DISTRIBUTION PANELS IN PHASE 2A BASEMENT ELECTRICAL ROOM.
- ⑧ PHASE 8
 - 8 - CONTRACTOR TO "RING-OUT" EXISTING RECEPTACLE CIRCUITS IN BUILDING #100ED.
- ⑨ PHASE 9
 - 9a - CONTRACTOR TO "RING-OUT" EXISTING RECEPTACLE CIRCUITS.
 - 9b - INSTALL 277/480V AND 120/208V REPLACEMENT.
 - 9c - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 9d - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS. THIS INCLUDES ALL MECHANICAL EQUIPMENT (AIR HANDLERS, CHILLERS, ETC.)
 - 9e - DEMOLISH EXISTING PANELS AND TRANSFORMERS AND RESTORE ROOM.
- ⑩ PHASE 10
 - 10 - REMOVE SIDEWALKS. TRENCH AND INSTALL NEW UNDERGROUND CONDUIT AND FEEDERS. REPLACE SIDEWALK.
- ⑪ PHASE 11
 - 11a - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 11b - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
- ⑫ PHASE 12
 - 12a - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 12b - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
- ⑬ PHASE 13
 - 13a - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 13b - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
- ⑭ PHASE 14
 - 14a - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 14b - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
- ⑮ PHASE 15
 - 15a - INSTALL NEW REPLACEMENT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
 - 15b - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.
- ⑯ PHASE 16
 - 16 - DEMOLISH EXISTING PANELS IN PHASE 7 BUILDING 300 GROUND FLOOR ELECTRICAL ROOM AND TRANSFORMERS AND RESTORE ROOM.
- ⑰ PHASE 17
 - 17 - DEMOLISH EXISTING SWITCHGEAR AND RESTORE COURTYARD SURFACE.
- ⑱ PHASE 18
 - 8 - EXISTING AREA TO REMAIN AS IS.

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- ⑥ SEE SHEET E2.1 FOR CIRCLED KEYED PHASING AREAS.

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 Web: dinter.com
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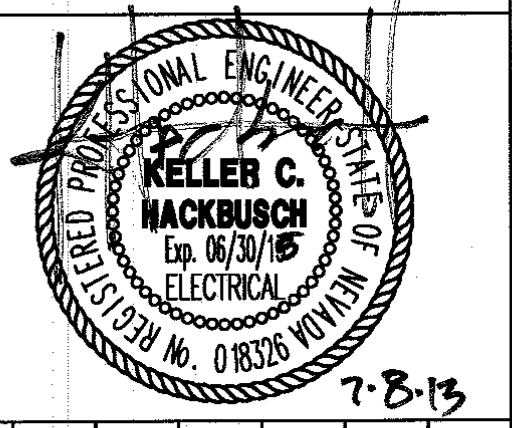
DESIGNED BY: PKH	DRAWN BY: GLR	CHECKED BY: PKH/KCH	DATE: 06/19/13
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**ELECTRICAL
 NEW PHASING
 DISRIPTIONS**

1 CIRCLED KEYED PHASING NOTES
 SCALE: NTS

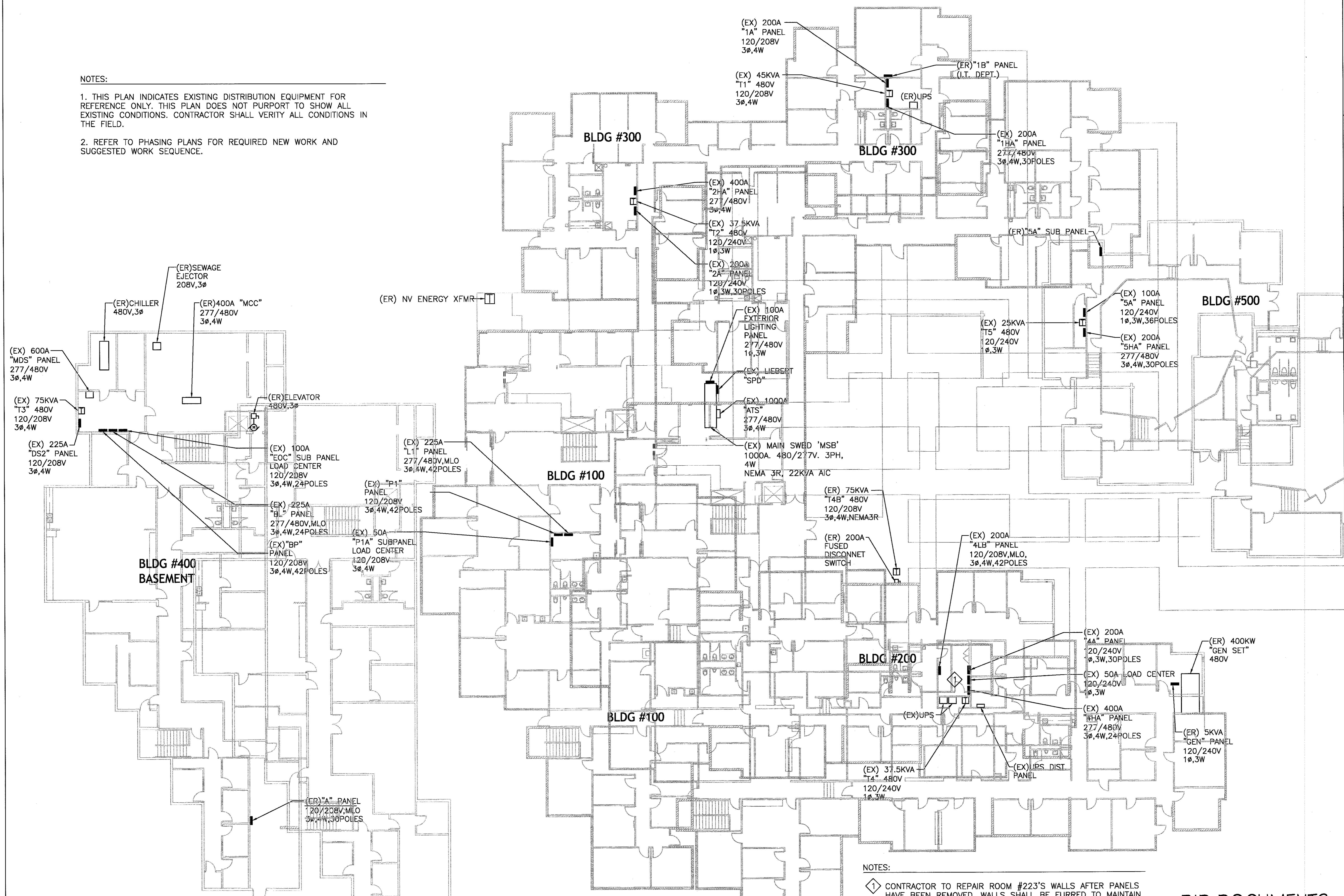
BID DOCUMENTS
 07-05-2013

E2.2



NOTES:

1. THIS PLAN INDICATES EXISTING DISTRIBUTION EQUIPMENT FOR REFERENCE ONLY. THIS PLAN DOES NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD.
2. REFER TO PHASING PLANS FOR REQUIRED NEW WORK AND SUGGESTED WORK SEQUENCE.



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DESIGNED BY: PKH	DRAWN BY: GLR	CHECKED BY: PKH/KCH	DATE: 06/19/13
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**ELECTRICAL
 EXISTING
 ELECTRICAL SITE PLAN**

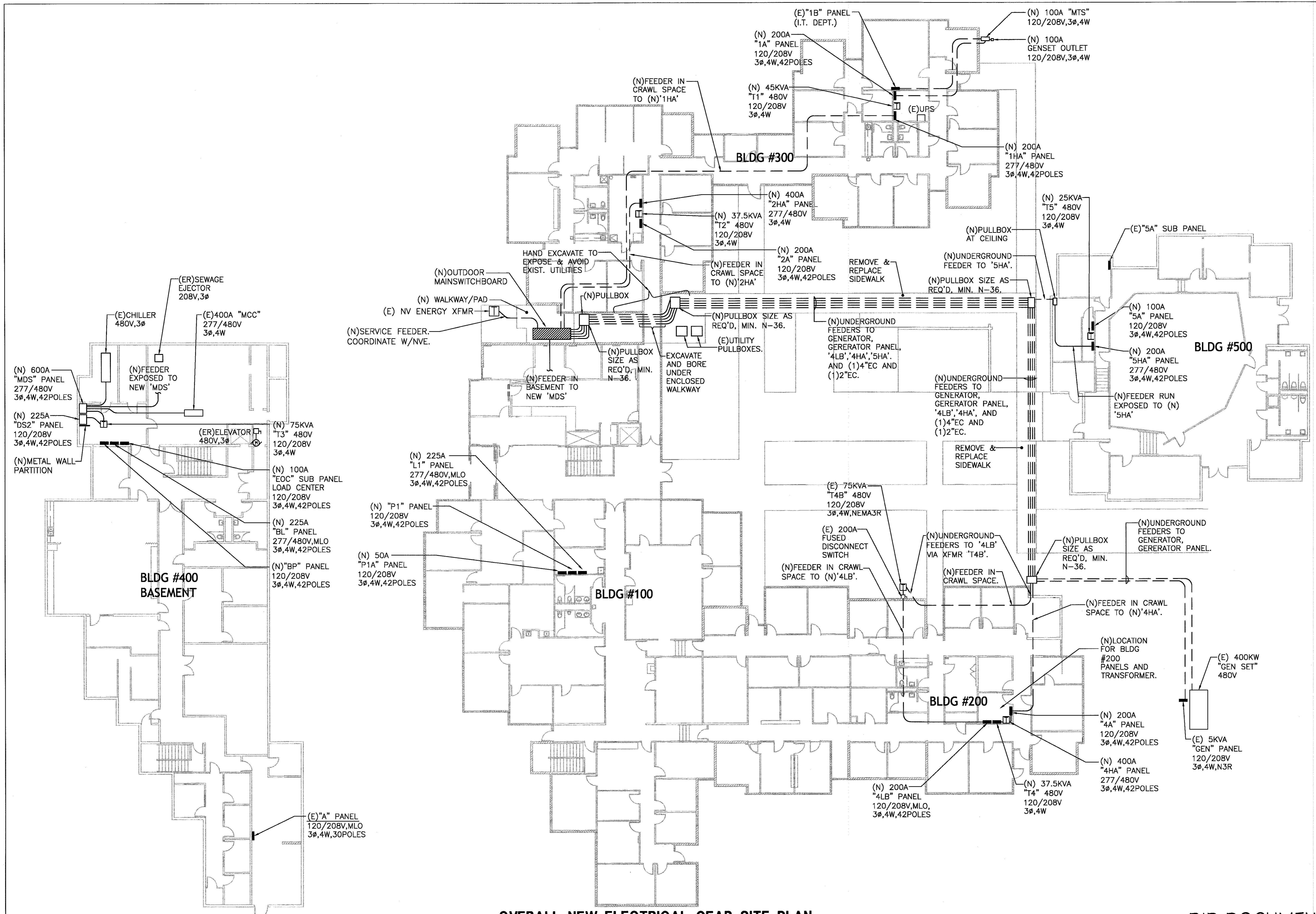
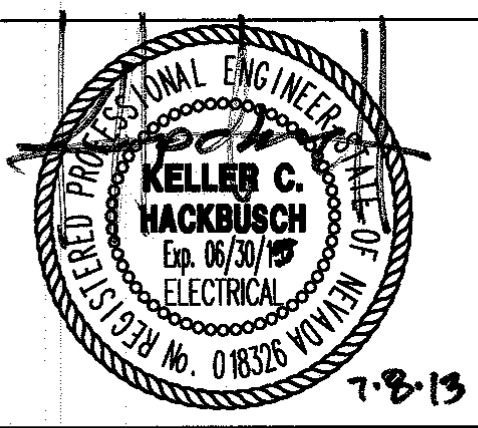
BLDG #400 BASEMENT

1 EXISTING ELECTRICAL GEAR SITE PLAN
 SCALE: NTS

NOTES:

1 CONTRACTOR TO REPAIR ROOM #223'S WALLS AFTER PANELS HAVE BEEN REMOVED. WALLS SHALL BE FURRED TO MAINTAIN A STRIAIGHT FINNISHED WALL.

**BID DOCUMENTS
 07-05-2013**



BLDG #400 BASEMENT

1 OVERALL NEW ELECTRICAL GEAR SITE PLAN
 SEE INDIVIDUAL PHASING PLANS FOR DETAILS
 SCALE: NTS

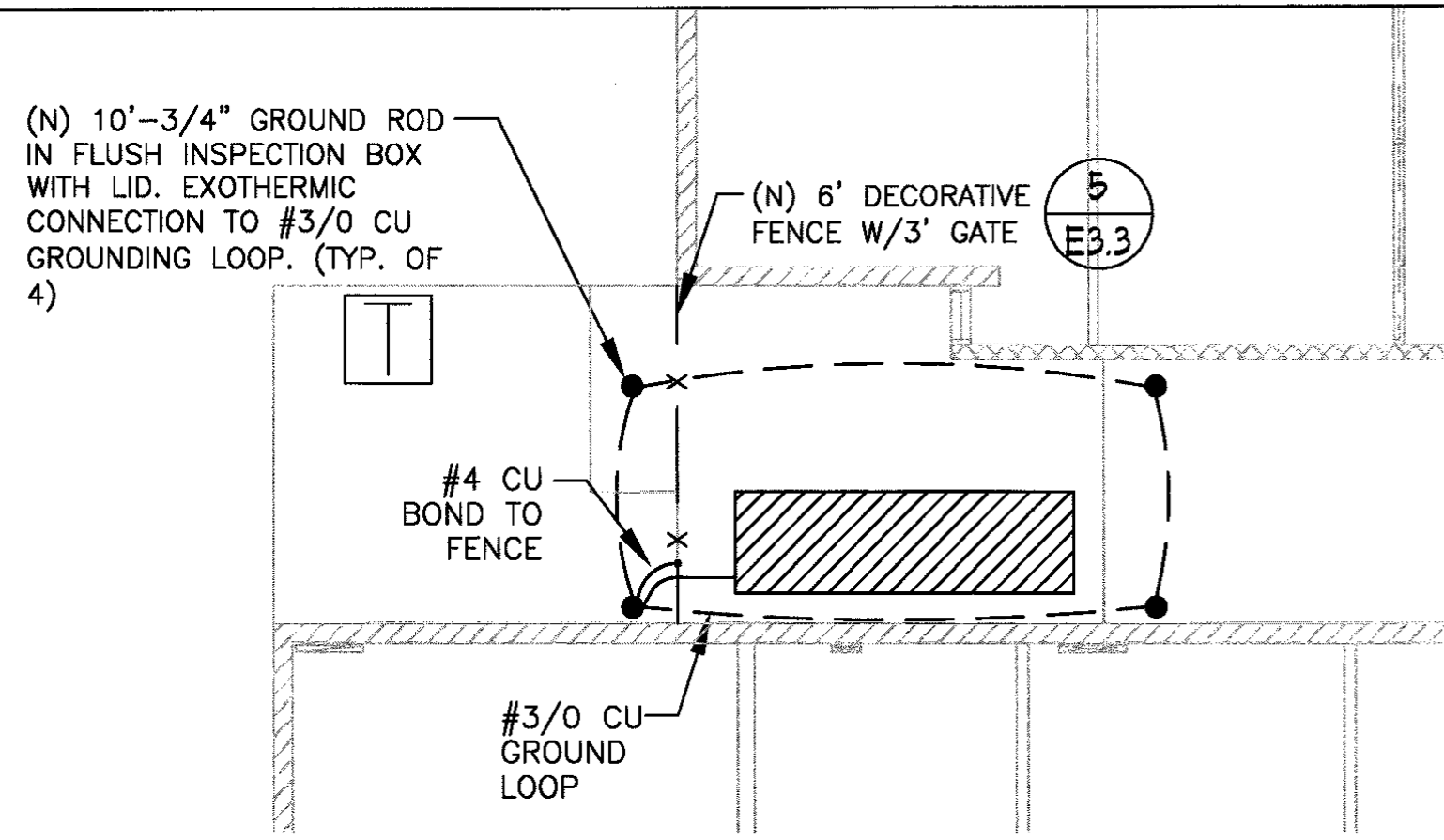
BID DOCUMENTS
 07-05-2013

No.	REVISIONS/SUBMISSIONS	DATE

CITY OF SPARKS
CITY HALL ELECTRICAL
UPGRADE
431 PRATER WAY
SPARKS, NEVADA 89432

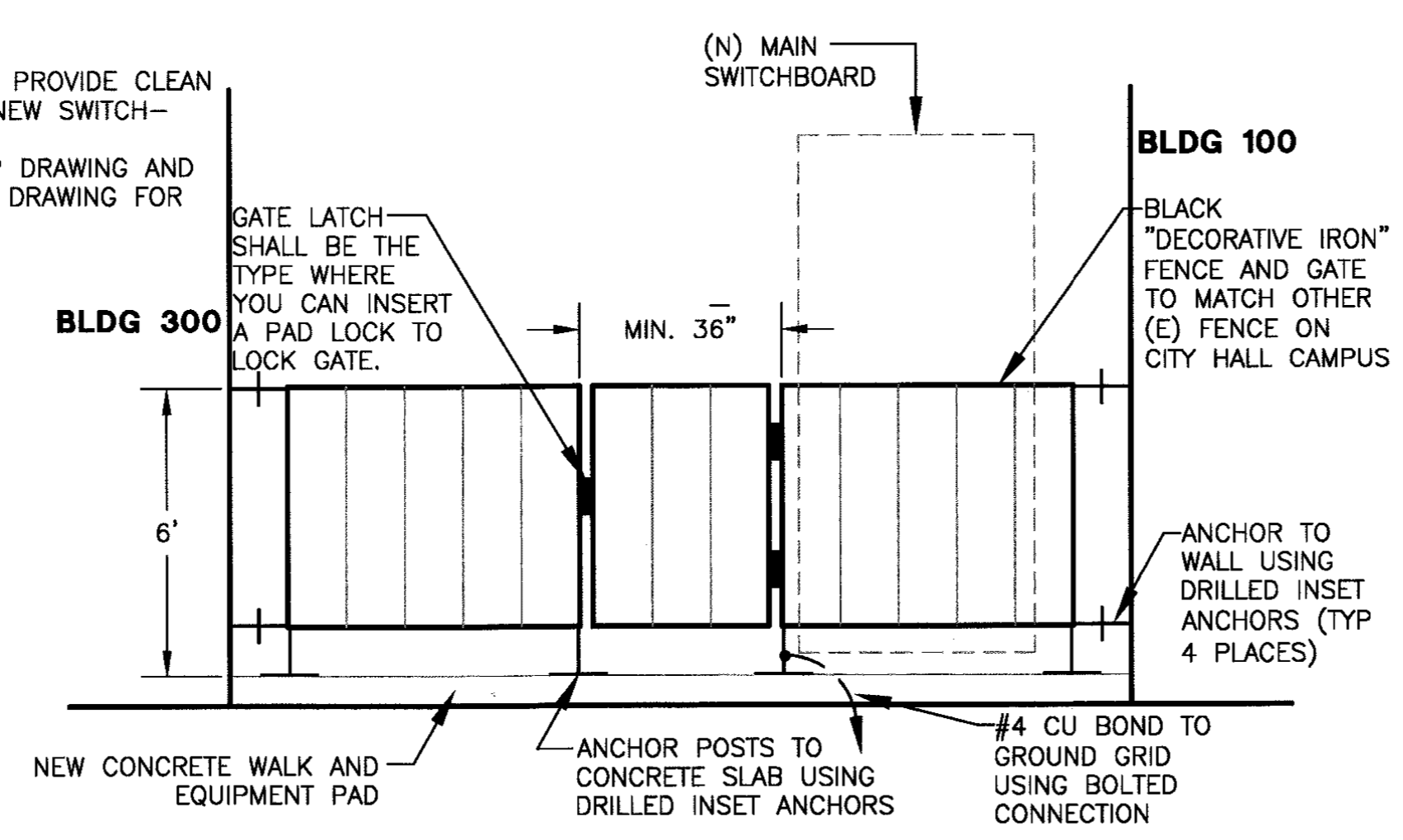
DESIGNED BY:	PKH
DRAWN BY:	GLR
CHECKED BY:	PKH/KCH
DATE:	06/19/13

ELECTRICAL
NEW
ELECTRICAL SITE PLAN

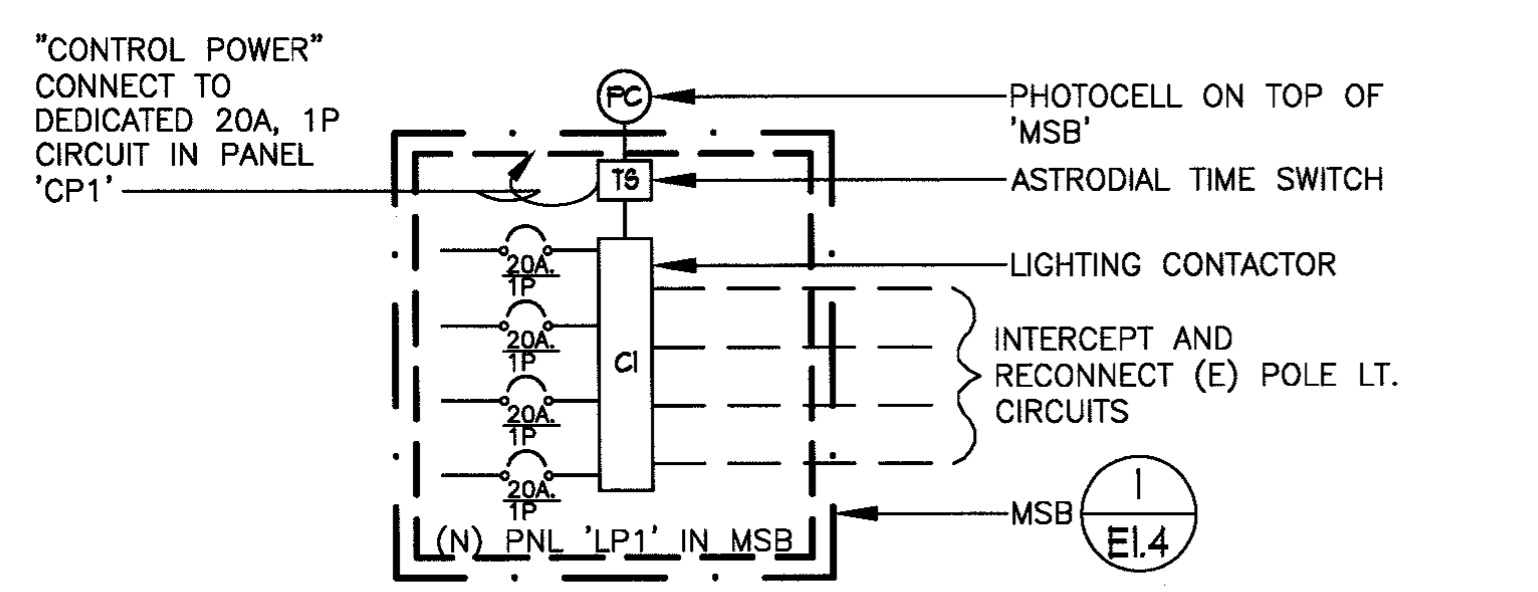


4 NEW MSB GROUNDING PLAN
SCALE: NTS

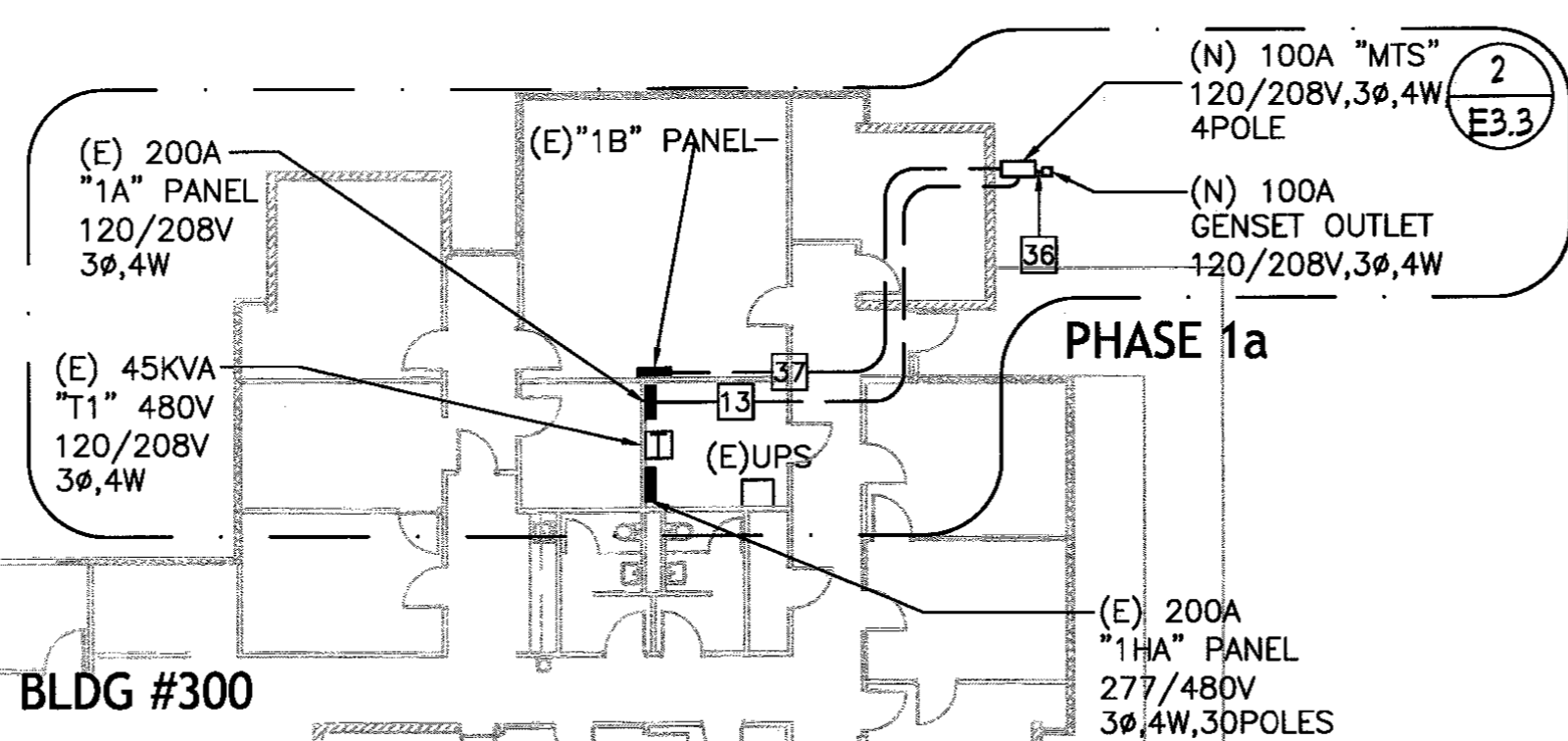
NOTES:
1. SET GATE TO PROVIDE CLEAN ACCESS TO NEW SWITCHBOARD.
2. SUBMIT SHOP DRAWING AND INSTALLATION DRAWING FOR APPROVAL.



5 FENCE DETAIL
SCALE: NTS



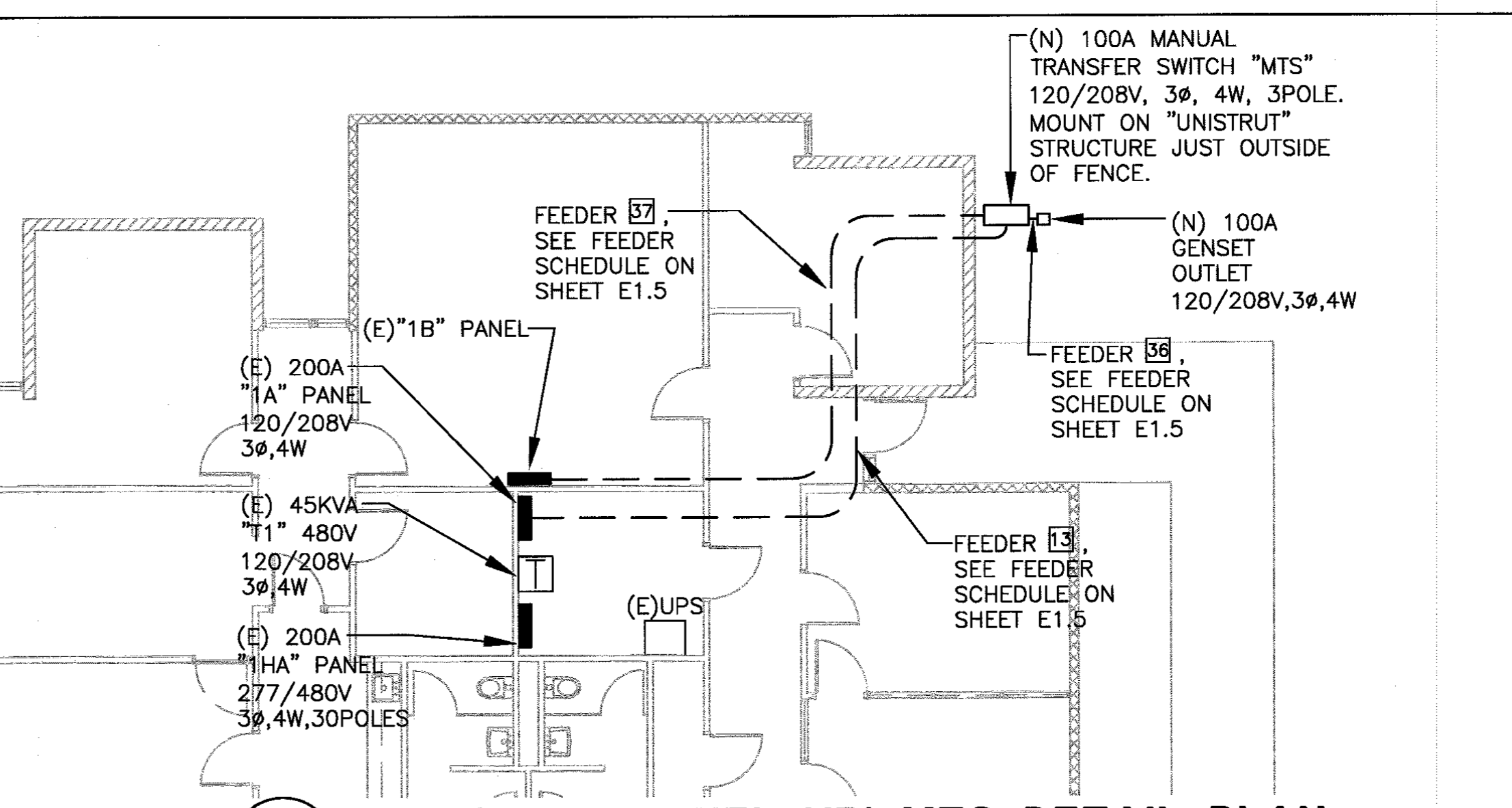
6 EXTERIOR POLE LIGHTING CONTROL DIAGRAM
SCALE: NTS



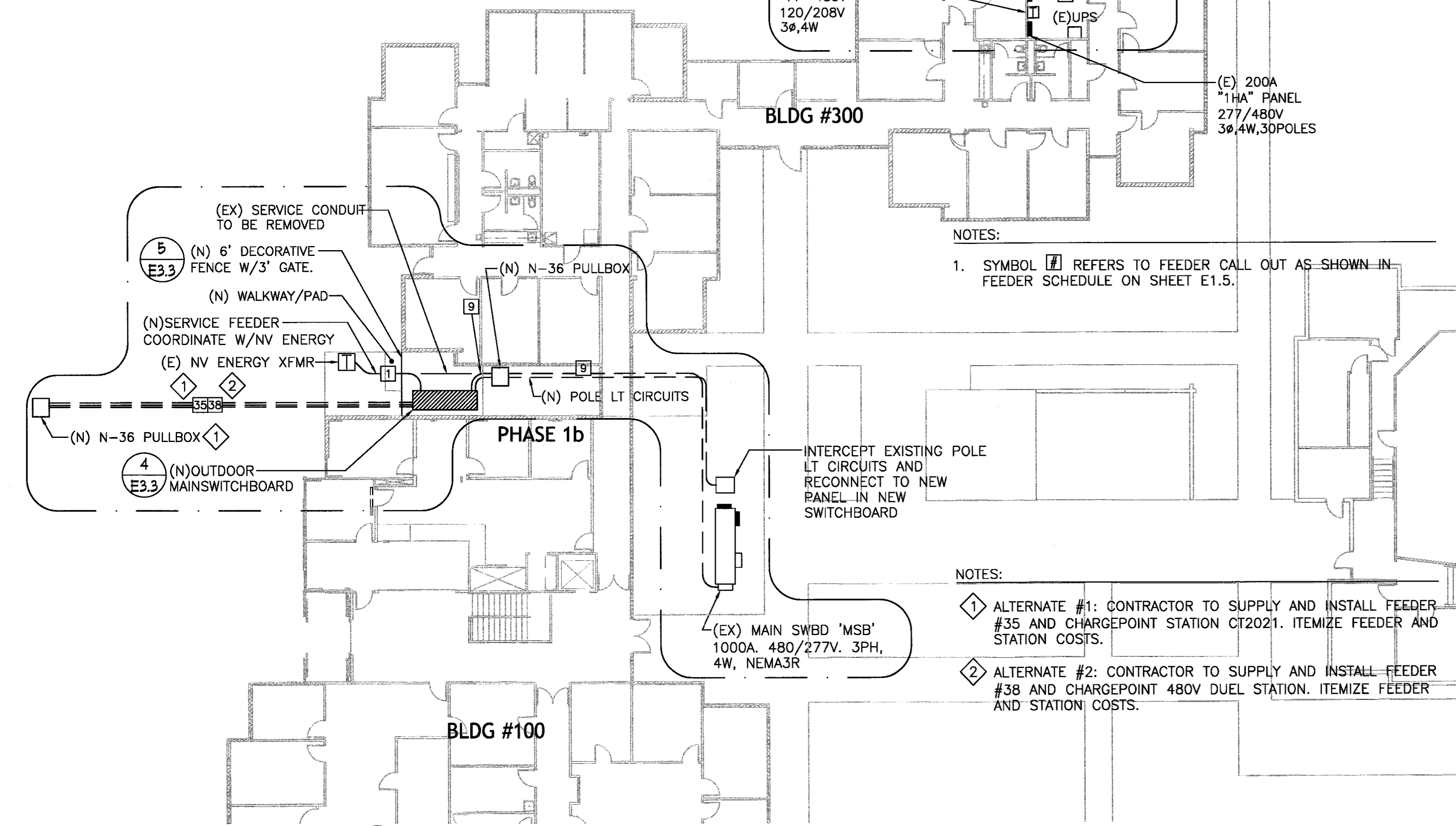
NOTES:
1. SYMBOL [A] REFERS TO FEEDER CALL OUT AS SHOWN IN FEEDER SCHEDULE ON SHEET E1.5.

PHASE 1 KEYED NOTES:

- PHASE 1a: (SEE DETAIL 2)**
1 - SUPPLY AND INSTALL MANUAL TRANSFER SWITCH AND GENERATOR PLUG ON RACK AGAINST EXISTING FENCE.
2 - SUPPLY AND INSTALL FEEDERS TO PANELS "1A" AND "1B". FEEDERS TO BE IN PLACE PRIOR TO COORDINATING POWER OUTAGE FOR PANEL "1B" WITH CITY OF SPARKS' IT DEPARTMENT.
- PHASE 1B: (SEE DETAIL 3)**
1 - HAND DIG AREA TO LOCATE ALL UTILITY UNDERGROUND LINES.
2 - SUPPLY AND INSTALL N-36 INTERCEPTION PULL BOX SO AS TO INTERCEPT EXISTING NV ENERGY SERVICE FEEDER TO EXISTING MAIN SWITCHBOARD.
3 - SUPPLY AND INSTALL MAIN SERVICE GROUND LOOP. SEE 4/E3.3.
4 - SUPPLY AND INSTALL MAIN SWITCHBOARD HOUSE KEEPING PAD.
5 - SUPPLY AND INSTALL FEEDERS AND PULL FOR ELECTRIC AUTOMOBILE CHARGE STATIONS.
6 - SUPPLY AND INSTALL ALL MSB CONDUIT STUB OUTS.
7 - ELECTRICAL CONTRACTOR SHALL CLOSE THE MAIN BREAKER IN EXISTING MAIN SWITCHBOARD AND THEN COORDINATE OPERATING THE EXISTING GENERATOR WITH OWNER'S MAINTENANCE CONTRACTOR DURING NEW SERVICE CUT OVER AND CONNECTION TO ENERGIZE EXISTING MSB FROM NEW MSB. CONTRACTOR TO INTERCEPT EXISTING SERVICE FEEDER IN INTERCEPTION PULL BOX AND MAKE CONNECTIONS TO NEW MAIN SWITCHBOARD. THE SERVICE WORK SHALL BE COORDINATED WITH NV ENERGY AND SITE PREPARED FROM NV ENERGY TO PULL SECONDARY SERVICE CONDUCTOR. COORDINATED WITH THE CITY OF SPARKS' STAFF AND NV ENERGY.

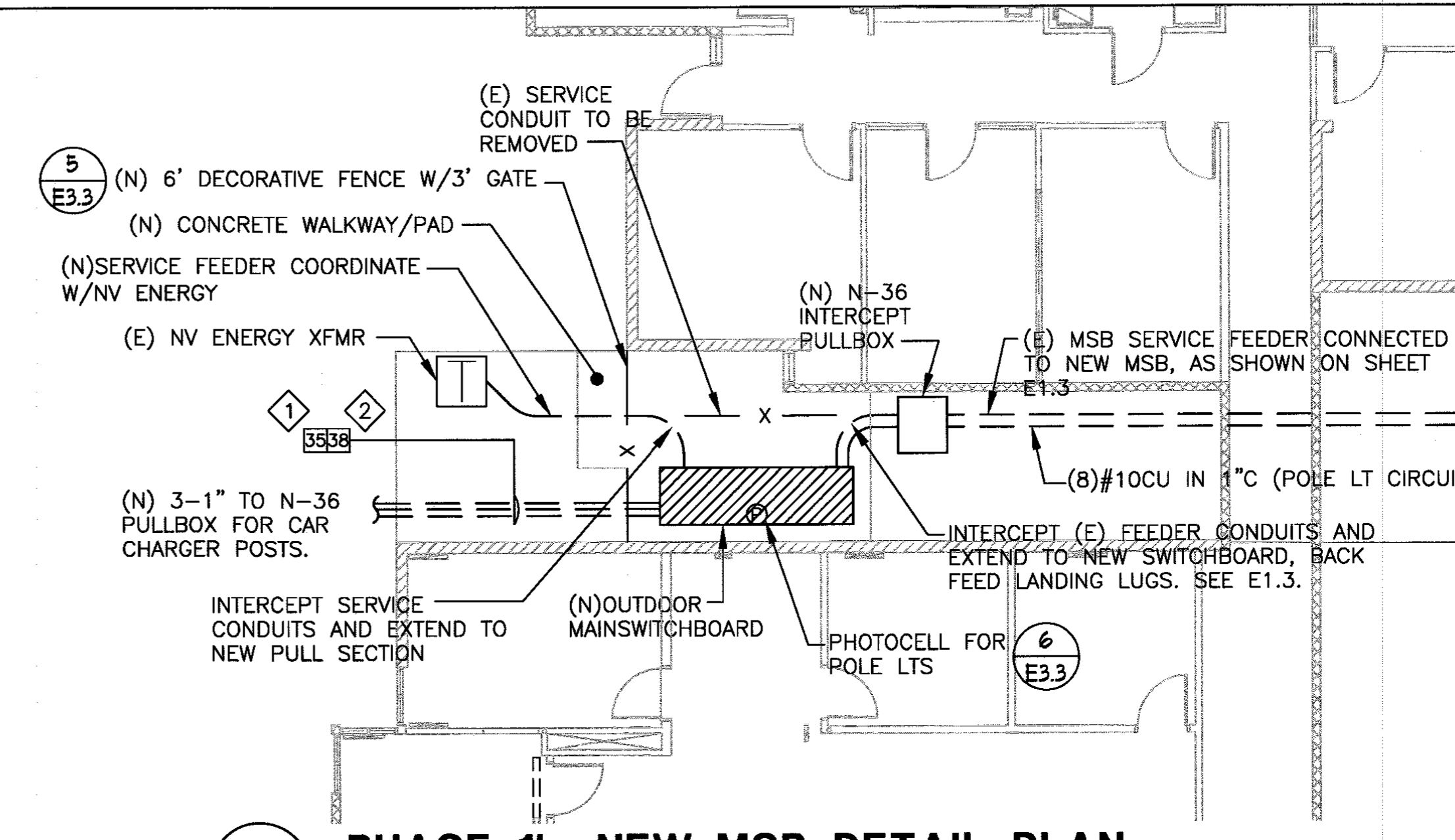


2 PHASE 1a: PANEL '1B' MTS DETAIL PLAN
SCALE: 1/8" = 1'-0"

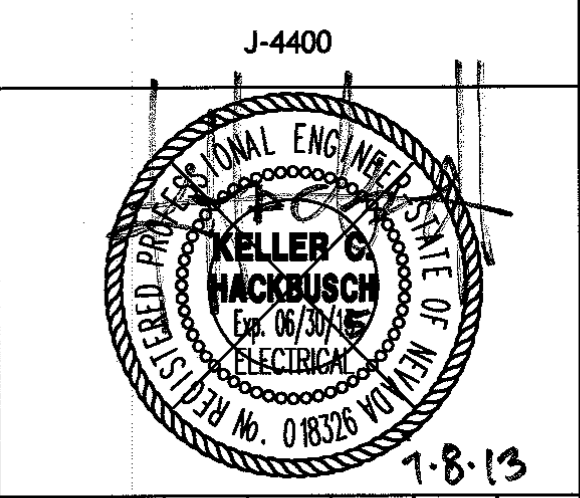


1 NEW ELECTRICAL PHASE 1a AND 1b PLAN
SCALE: 1" = 15'-0"

NOTES:
1 ALTERNATE #1: CONTRACTOR TO SUPPLY AND INSTALL FEEDER #35 AND CHARGEPOINT STATION CT2021. ITEMIZE FEEDER AND STATION COSTS.
2 ALTERNATE #2: CONTRACTOR TO SUPPLY AND INSTALL FEEDER #38 AND CHARGEPOINT 480V DUEL STATION. ITEMIZE FEEDER AND STATION COSTS.



3 PHASE 1b: NEW MSB DETAIL PLAN
SCALE: 1/8" = 1'-0"

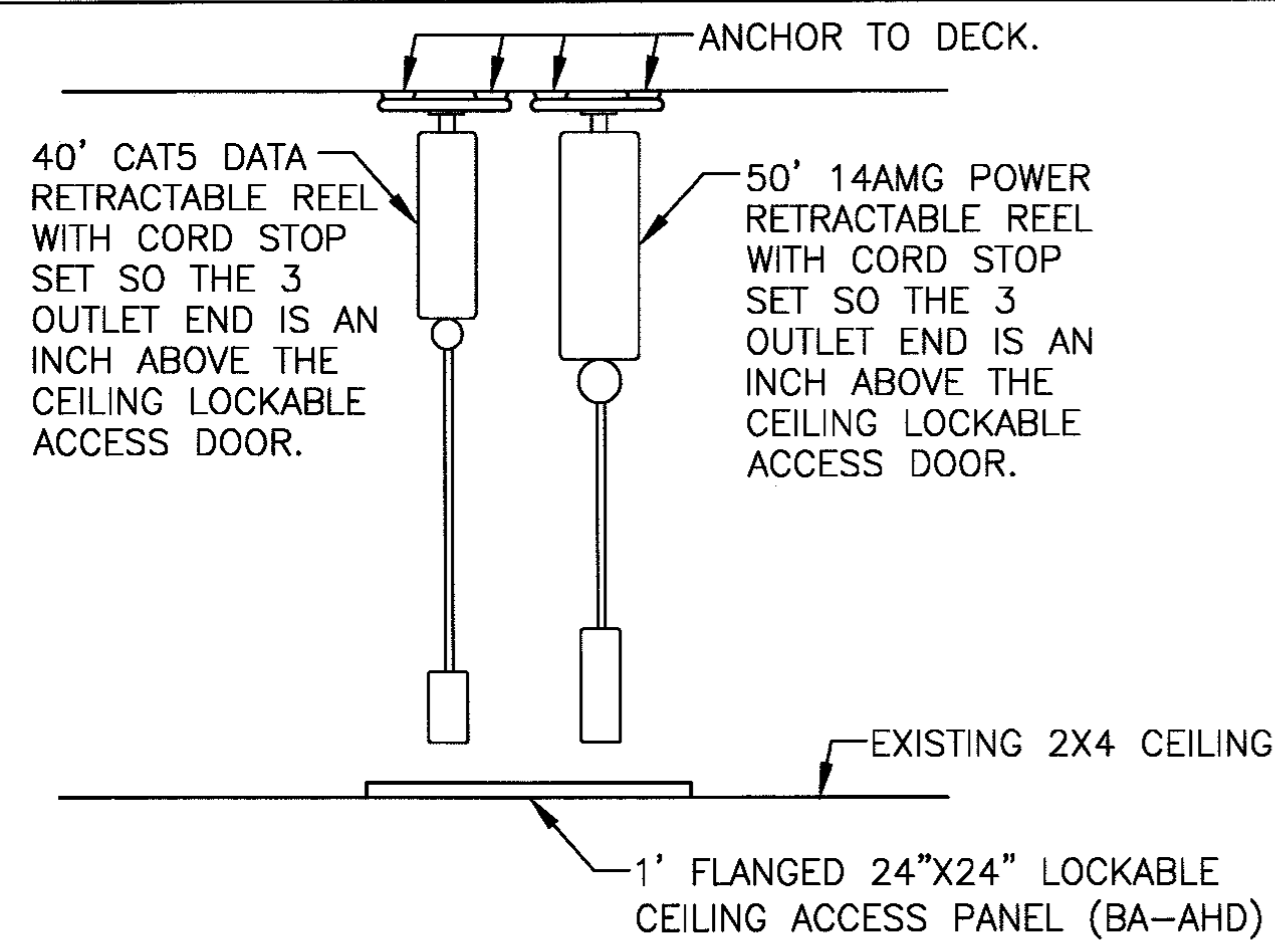


No.	REVISIONS/SUBMISSIONS	DATE

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DESIGNED BY: PKH	DRAWN BY: GLR	CHECKED BY: PKH/KCH	DATE: 06/19/13
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ELECTRICAL
PHASE 1 PLAN



4 EOC CEILING REELS DETAIL

SCALE: NTS

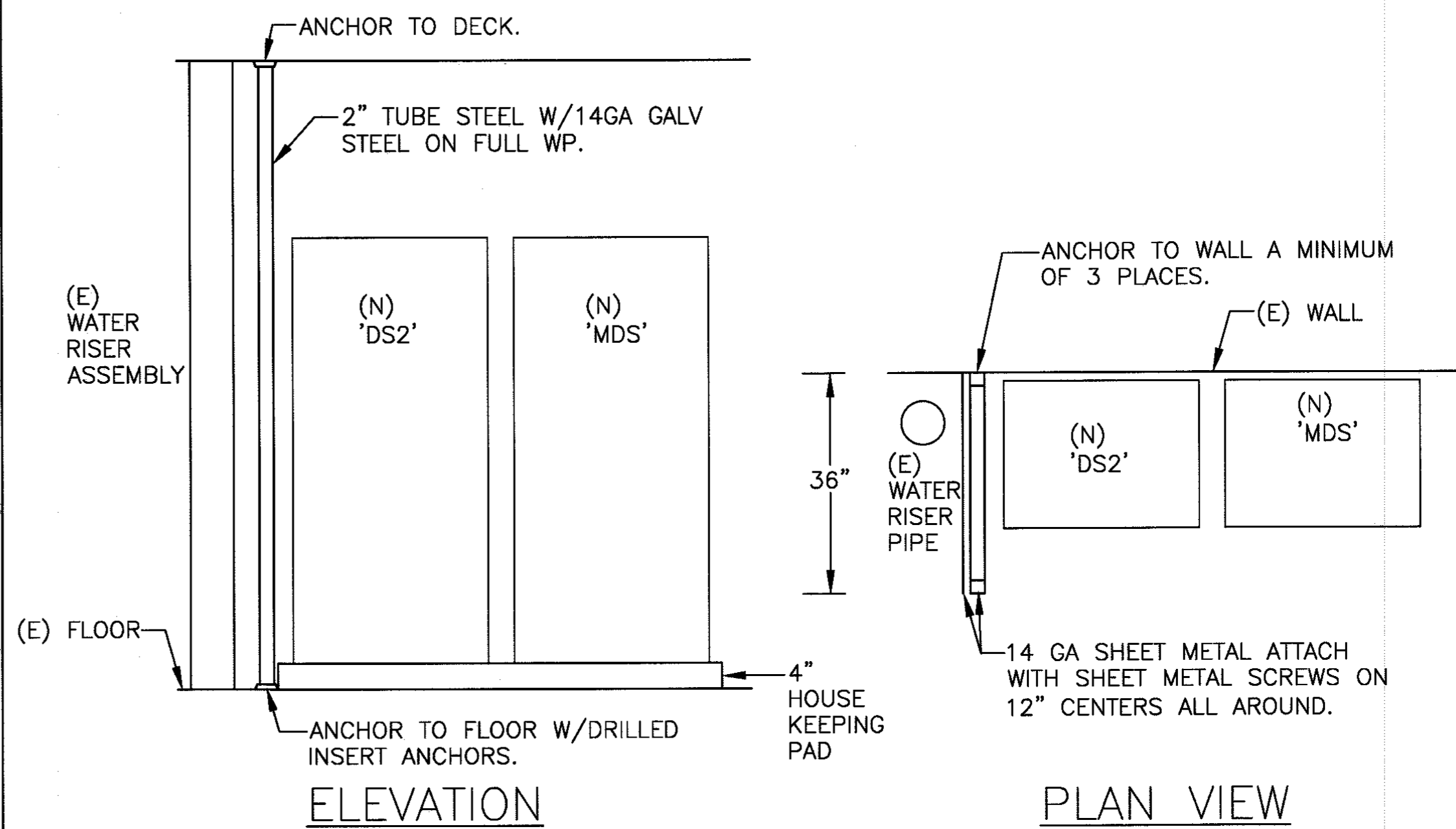
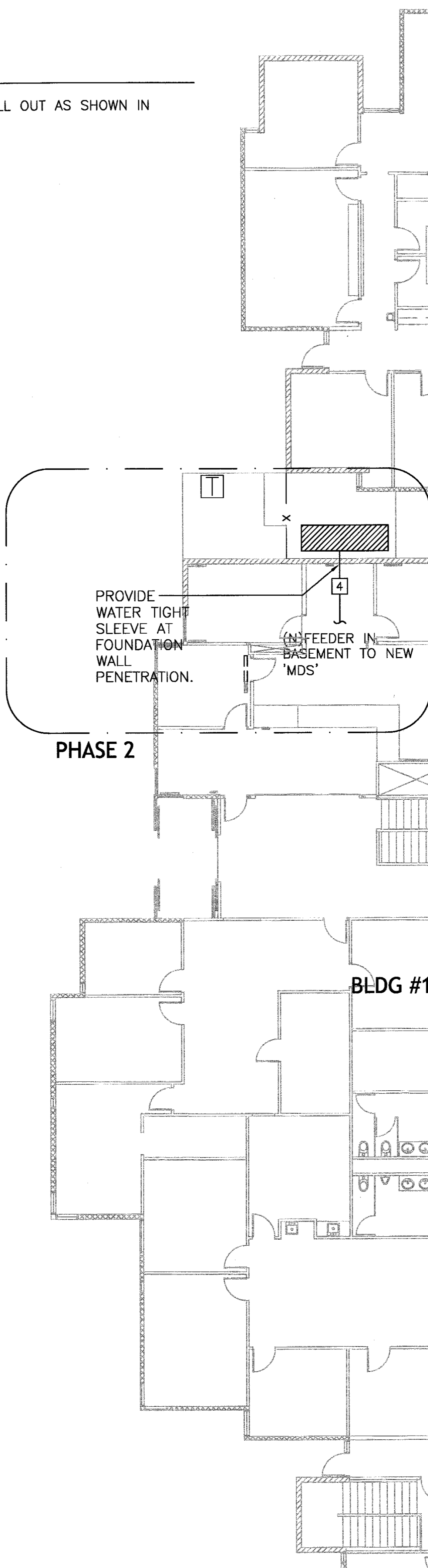
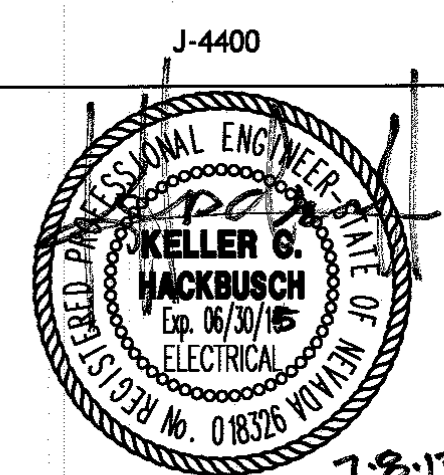
NOTES:

1. SYMBOL [E] REFERS TO FEEDER CALL OUT AS SHOWN IN FEEDER SCHEDULE ON SHEET E1.5.

PHASE 2 KEYED NOTES:

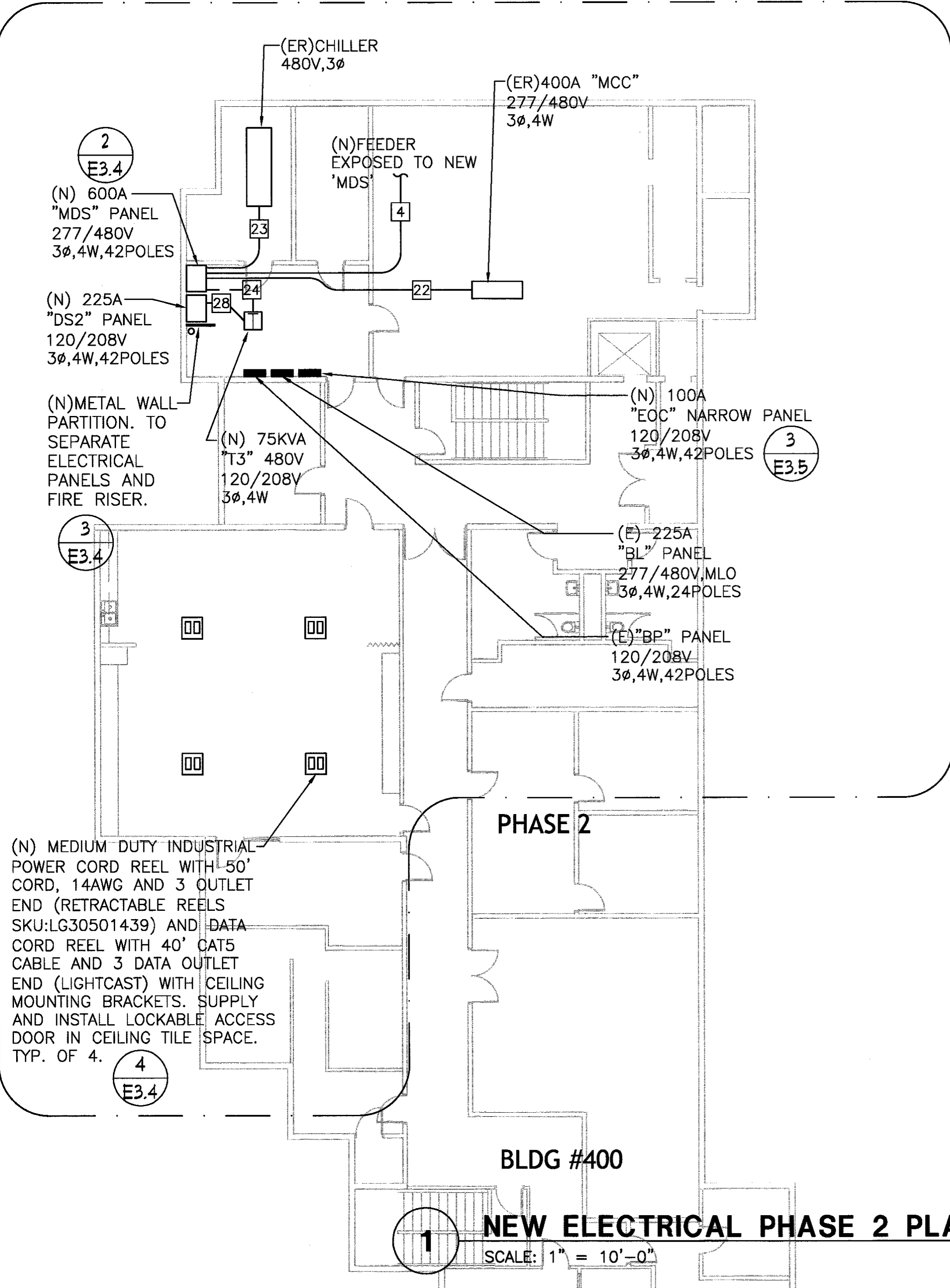
- 1 - SUPPLY AND INSTALL 277/480V DISTRIBUTION PANEL 'MDS'. SUPPLY AND INSTALL FEEDER TO MAIN SWITCHBOARD.
- 2 - SUPPLY AND INSTALL 480 X 120/208V TRANSFORMER. SUPPLY AND INSTALL FEEDER TO DISTRIBUTION PANEL 'MDS'.
- 3 - SUPPLY AND INSTALL 120/208V DISTRIBUTION PANEL 'DS2'. SUPPLY AND INSTALL FEEDER TO TRANSFORMER 'T3'.
- 4 - SUPPLY AND INSTALL STAINLESS STEEL BARRIER WALL BETWEEN DISTRIBUTION PANEL 'DS2' AND FIRE RISER PIPES.
- 5 - SUPPLY AND INSTALL 120/208V, NARROW TYPE, PANEL 'EOC'. SUPPLY AND INSTALL FEEDER TO DISTRIBUTION PANEL 'DS2'. CONNECT ALL EXISTING PANEL 'EOC' CIRCUITING TO NEW PANEL 'EOC'.
- 6 - SUPPLY AND INSTALL POWER AND DATA RETRACTABLE CORD REELS TO UPPER FLOOR DECKING. POWER CORD TO HAVE A THREE OUTLET END AND DATA CORD TO HAVE A OUTLET END. CONTRACTOR TO SUPPLY AND INSTALL NEW ACCESS CEILING PANEL DOOR. TYPICAL OF FOUR LOCATIONS. SUBMIT PRODUCT DATA TO CITY OF SPARKS FOR FINAL APPROVAL PRIOR TO PURCHASE.

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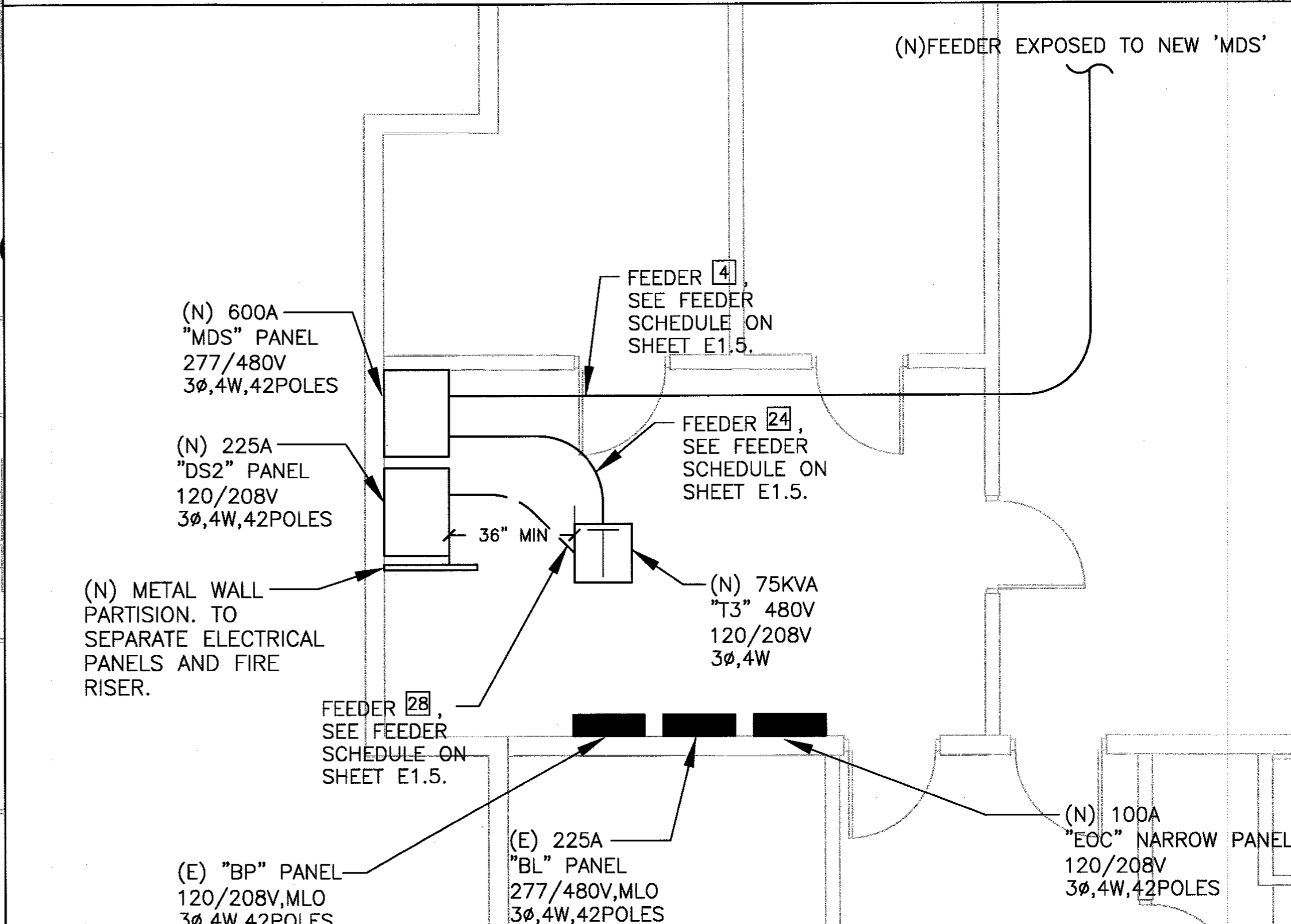
3 PARTITION WALL DETAIL

SCALE: NTS



1 NEW ELECTRICAL PHASE 2 PLAN

SCALE: 1" = 10'-0"



2 PHASE 2 ELECTRICAL ROOM 402 DETAIL PLAN

SCALE: 1/4" = 1'-0"

DATE	REVISIONS/SUBMISSIONS	No.

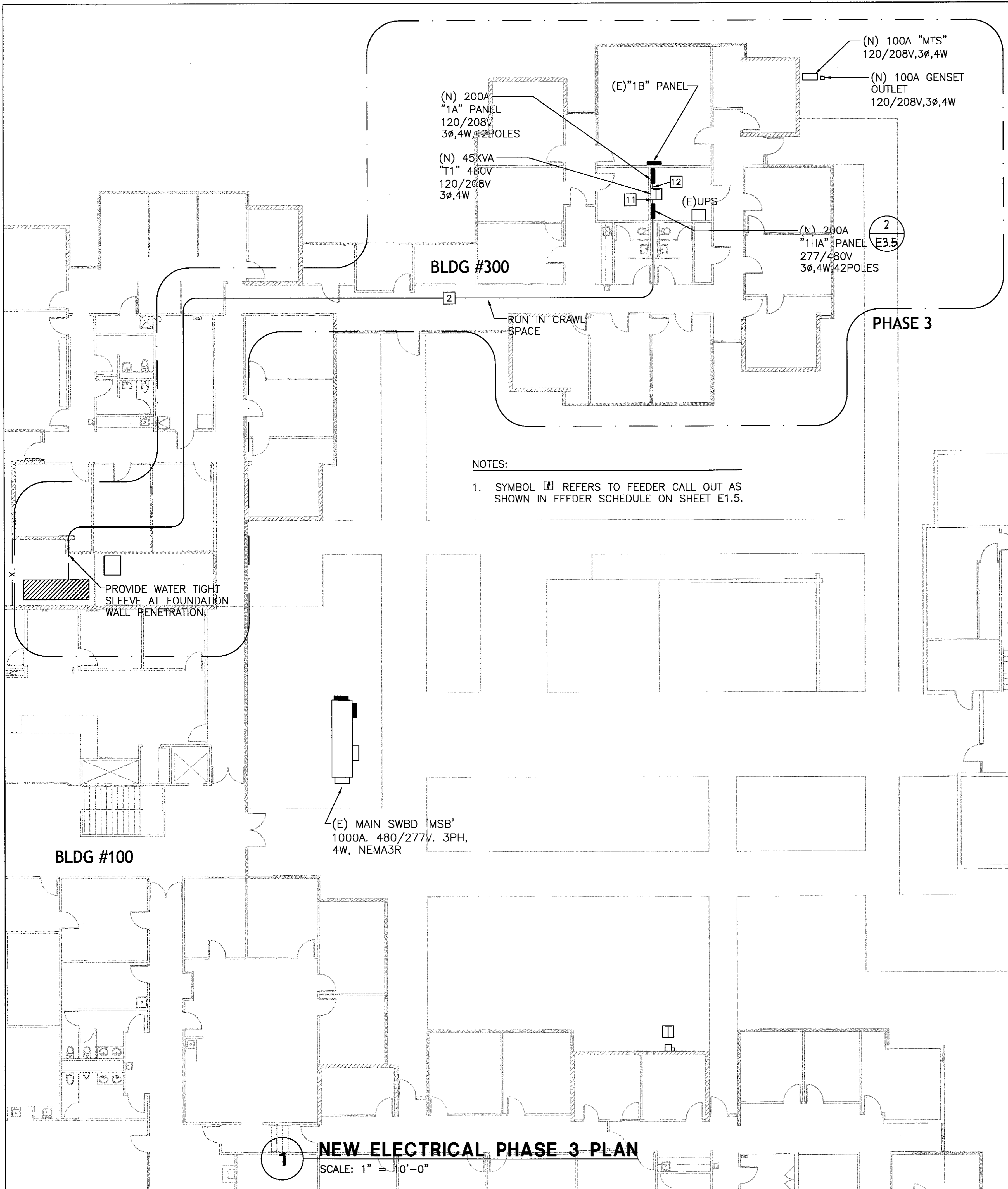
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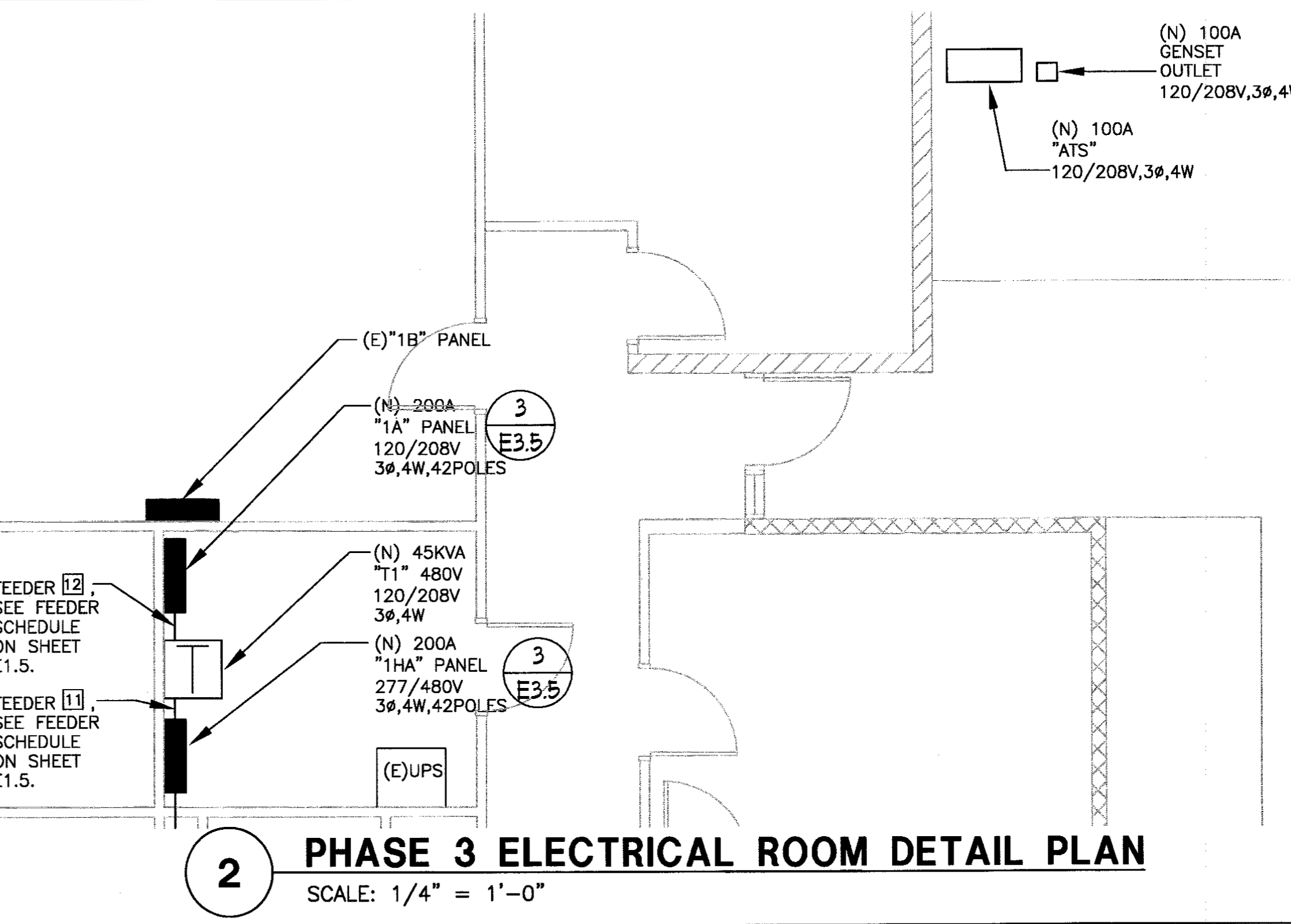
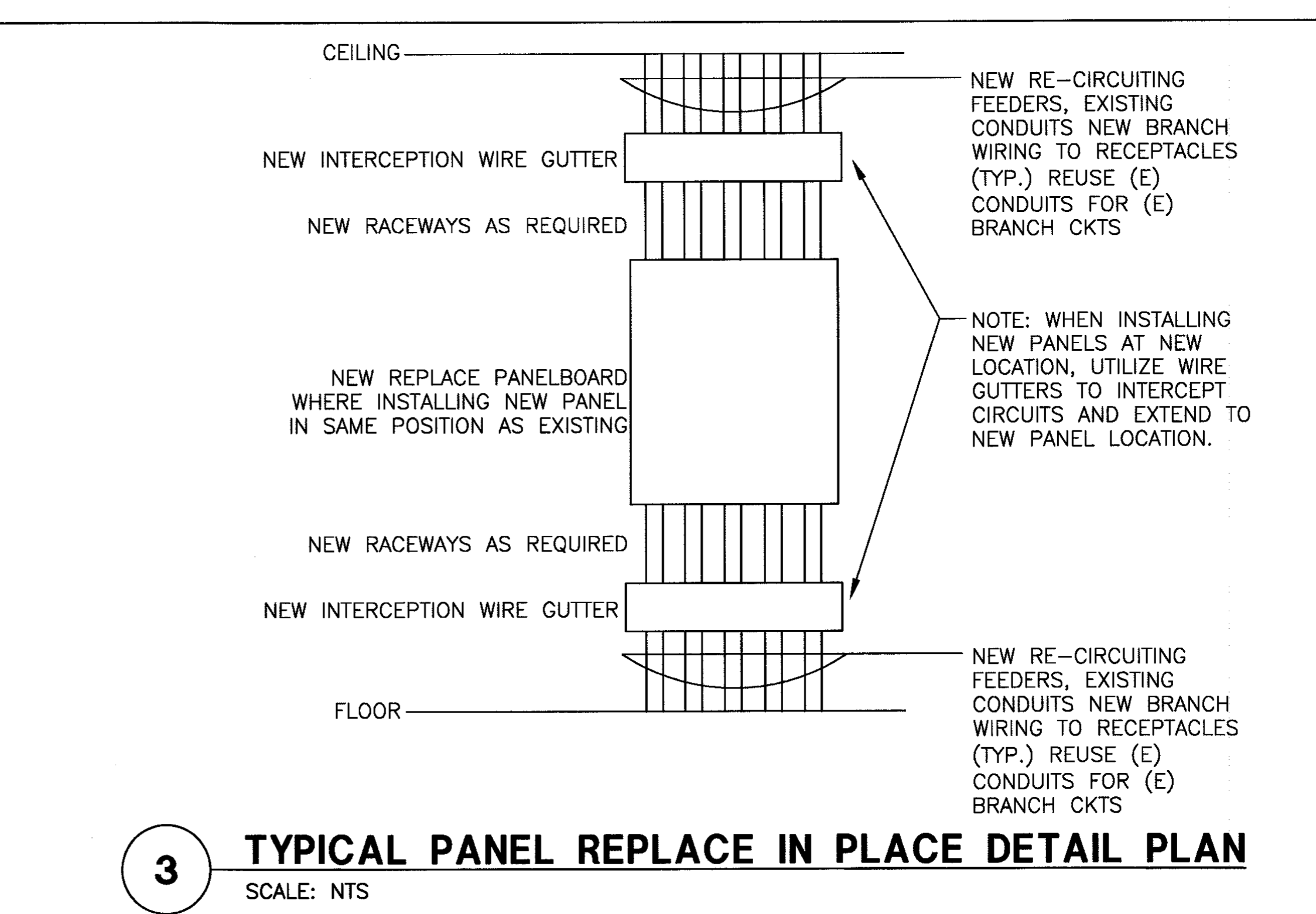
**ELECTRICAL
PHASE 2 PLAN**

E3.4
SHEET 14 OF 24

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07-05-2013



- PHASE 3 KEYED NOTES:**
- 1 - CONTRACTOR TO 'RING OUT' RECEPTACLES AND MAP OUT CIRCUITS. CONTRACTOR TO MOVE AND REPLACE OFFICE FURNITURE AS PART OF 'RING OUT' WORK.
 - 2 - SUPPLY AND CONNECT A TEMPORARY GENERATOR TO PANEL '1B'S MTS, USING THE NEW GENERATOR PLUG AND MTS SO THE CITY'S I.T. DEPARTMENT'S PANEL '1B' IS NOT SHUT DOWN. CONTRACTOR TO FUEL, MONITOR AND MAINTAIN THE TEMPORARY GENERATOR TO AVOID POWER SHUT DOWN.
 - 3 - SUPPLY AND INSTALL 277/480V PANEL '1HA'. SUPPLY AND INSTALL FEEDER TO NEW MAIN SWITCHBOARD.
 - 4 - SUPPLY AND INSTALL 480 X 120/208V TRANSFORMER. SUPPLY AND INSTALL FEEDER TO NEW PANEL '1HA'.
 - 5 - SUPPLY AND INSTALL 120/208V PANEL '1A'. SUPPLY AND INSTALL FEEDER TO NEW TRANSFORMER.
 - 6 - SUPPLY AND INSTALL NEW FEEDER CONNECTION FROM PANEL '1A' TO 'MTS' INSTALLED DURING PHASE 1 WORK.
 - 7 - REPLACE ALL RECEPTACLES AND COVER PLATES. CONTRACTOR TO PULL NEW WIRES AND RE-CIRCUIT RECEPTACLES. LABEL INSIDE OF RECEPTACLE COVERPLATE WITH PANEL CIRCUITING.
 - 7 - RECONNECT EXISTING PANEL LOADS TO NEW PANELS '1A', '1B' AND '1HA'.



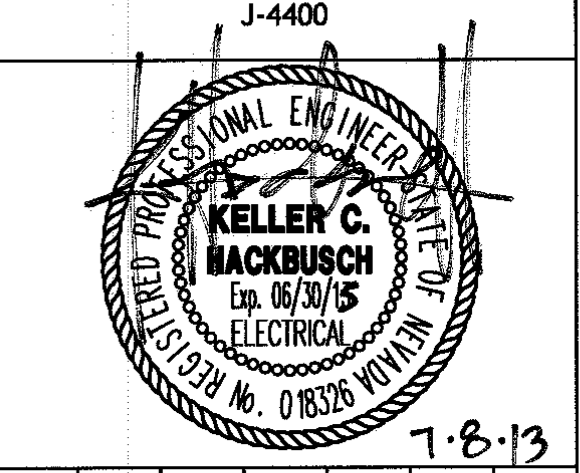
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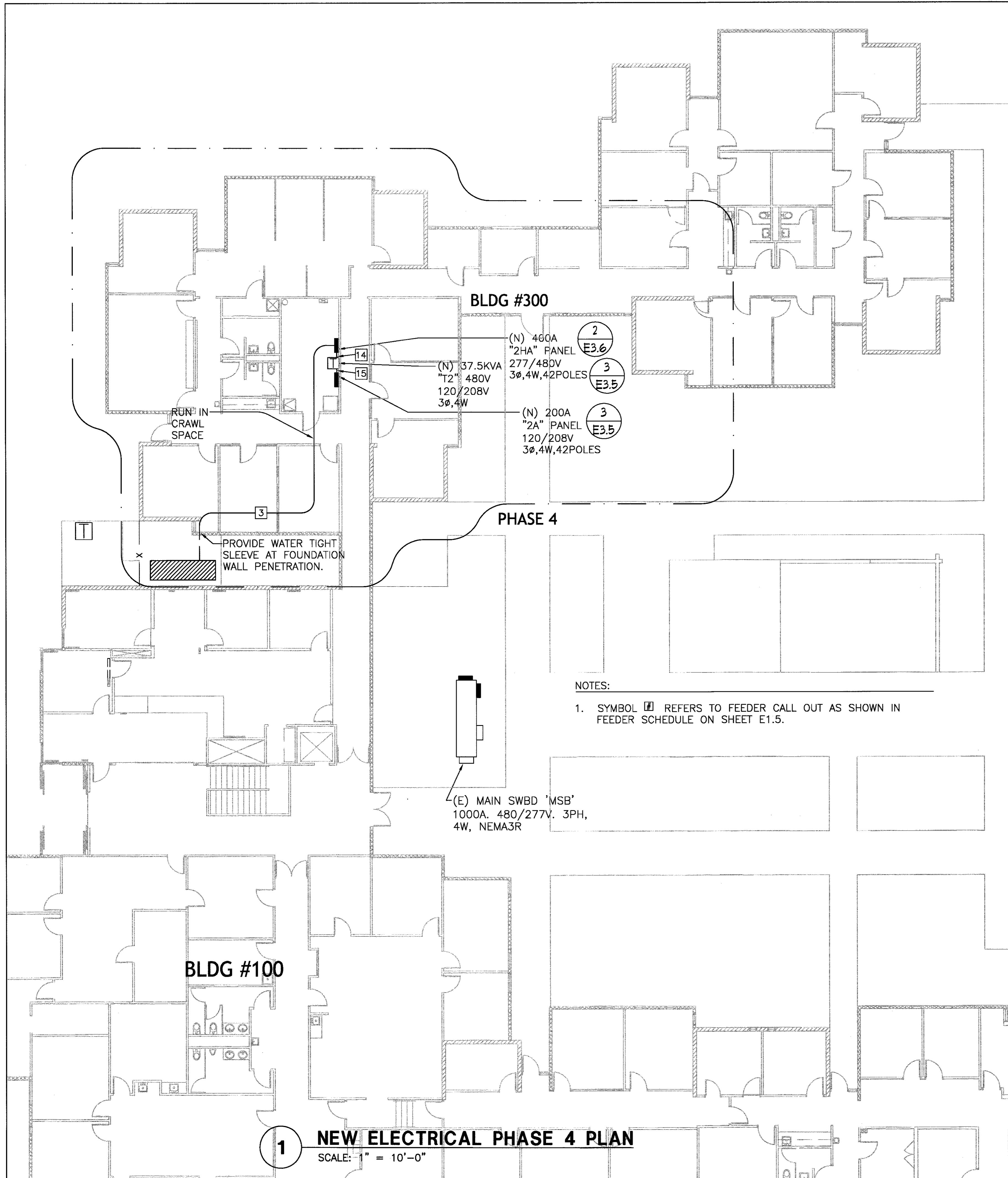


DATE	REVISIONS/SUBMISSIONS	No.
7-8-13		

CITY OF SPARKS
CITY HALL ELECTRICAL
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431 PRATER WAY
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DESIGNED BY: PKH	DRAWN BY: GLR	CHECKED BY: PKH/KCH	DATE: 06/19/13
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ELECTRICAL
PHASE 3 PLAN



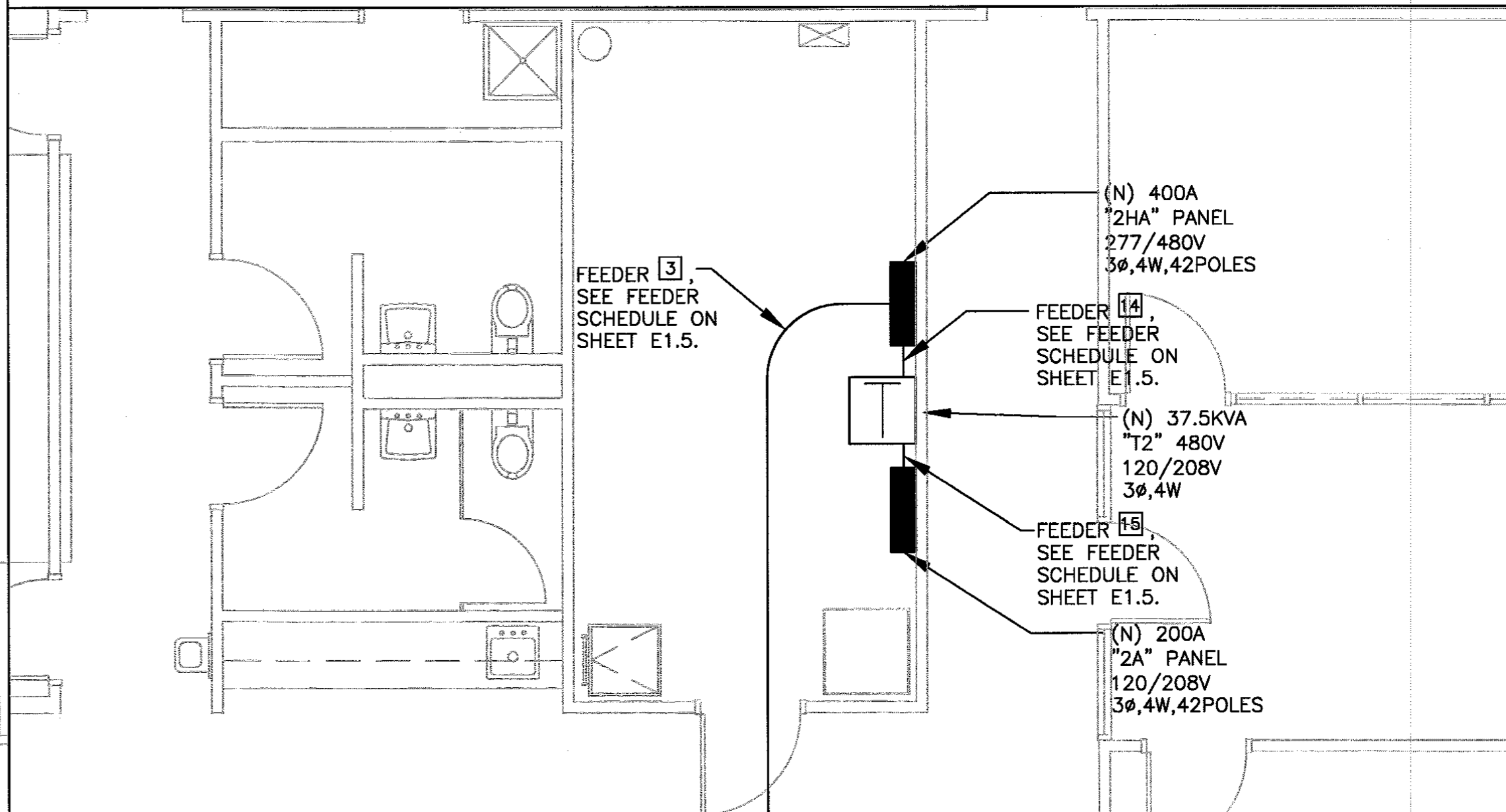
1 NEW ELECTRICAL PHASE 4 PLAN
SCALE: 1" = 10'-0"

PHASE 4 KEYED NOTES:

- 1 - CONTRACTOR TO 'RING OUT' RECEPTACLES AND MAP OUT CIRCUITS. CONTRACTOR TO MOVE AND REPLACE OFFICE FURNITURE AS PART OF 'RING OUT' WORK.
- 2 - SUPPLY AND INSTALL 277/480V PANEL '2HA'. SUPPLY AND INSTALL FEEDER TO NEW MAIN SWITCHBOARD.
- 3 - SUPPLY AND INSTALL 480 X 120/208V TRANSFORMER. SUPPLY AND INSTALL FEEDER TO NEW PANEL '2HA'.
- 4 - SUPPLY AND INSTALL 120/208V PANEL '2A'. SUPPLY AND INSTALL FEEDER TO NEW TRANSFORMER.
- 5 - REPLACE ALL RECEPTACLES AND COVER PLATES. CONTRACTOR TO PULL NEW WIRES AND RE-CIRCUIT RECEPTABLES.
- 6 - RECONNECT EXISTING PANEL LOADS TO NEW PANELS '2HA' AND '2A'.

NOTES:

1. SYMBOL REFERS TO FEEDER CALL OUT AS SHOWN IN FEEDER SCHEDULE ON SHEET E1.5.



2 PHASE 4 ELECTRICAL ROOM DETAIL PLAN
SCALE: 1/4" = 1'-0"

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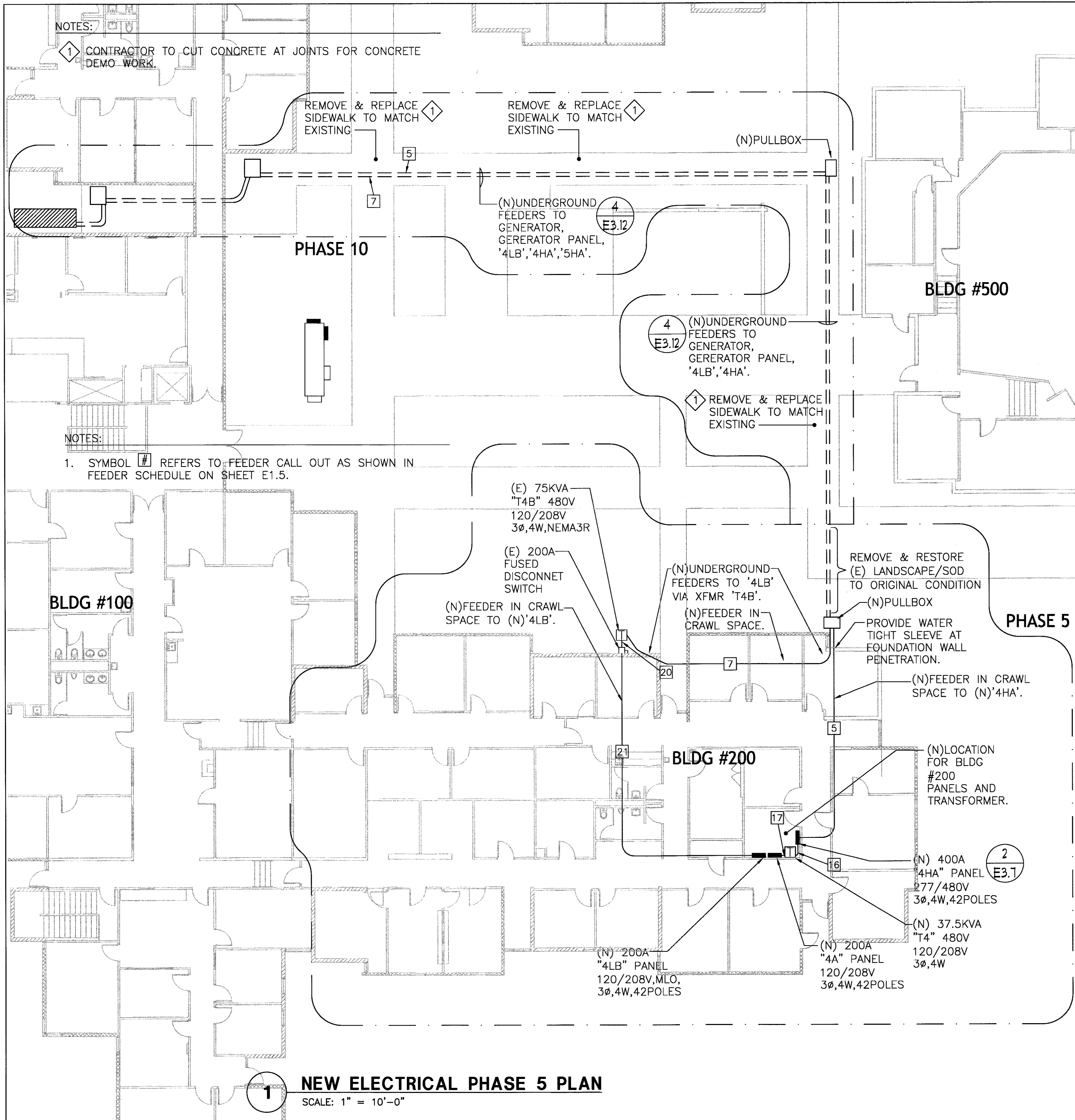
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CITY OF SPARKS
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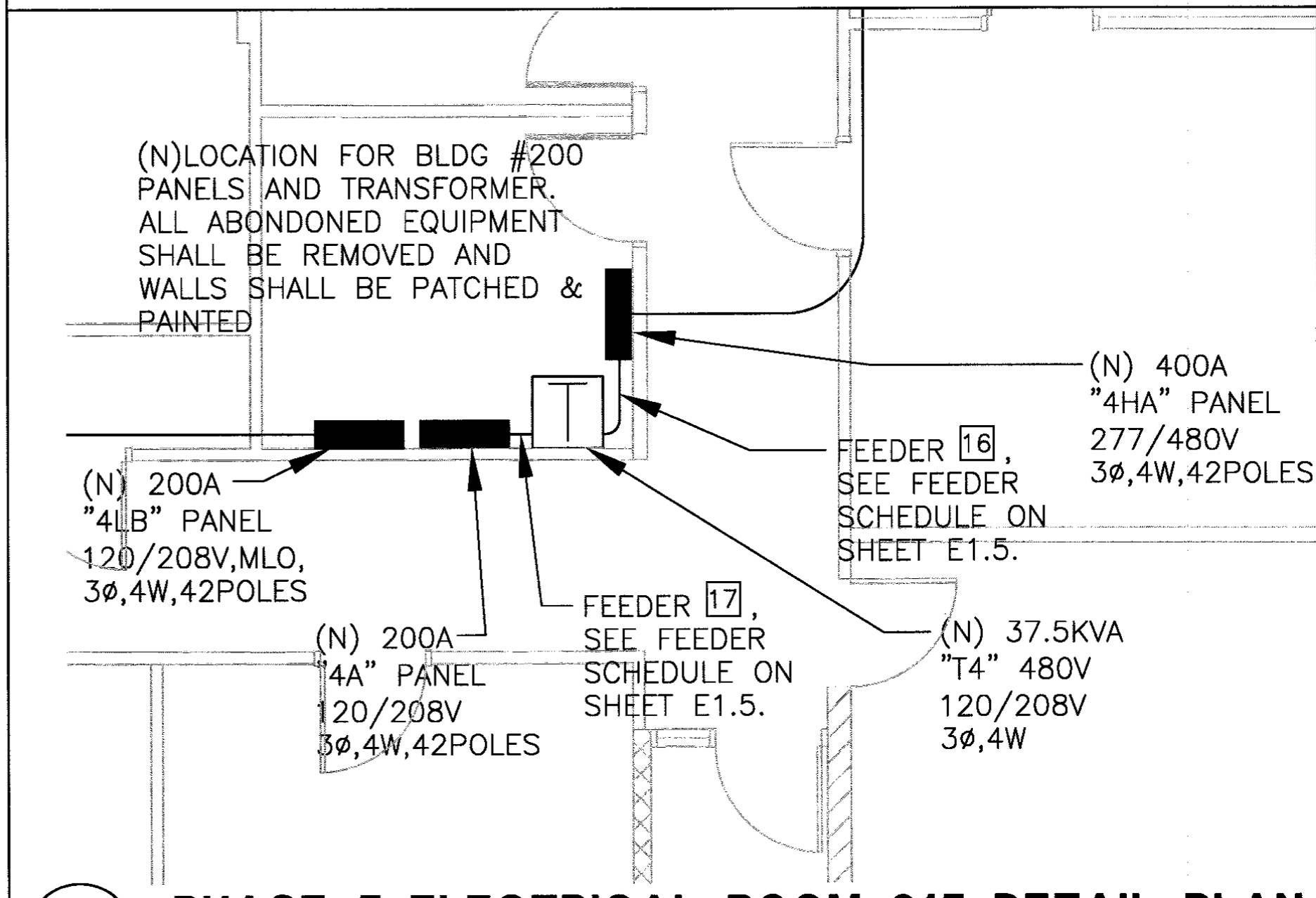
ELECTRICAL
PHASE 4 PLAN

E3.6
SHEET 16 OF 24



PHASE 5 KEYED NOTES:

- 1 - CONTRACTOR TO 'RING OUT' RECEPTACLES AND MAP OUT CIRCUITING. CONTRACTOR TO MOVE AND REPLACE OFFICE FURNITURE AS PART OF 'RING OUT' WORK.
- 2 - SUPPLY AND INSTALL 277/480V PANEL '4HA'. SUPPLY AND INSTALL FEEDER TO NEW MAIN SWITCHBOARD.
- 3 - SUPPLY AND INSTALL 480 X 120/208V TRANSFORMER. SUPPLY AND INSTALL FEEDER TO NEW PANEL '4HA'.
- 4 - SUPPLY AND INSTALL 120/208V PANEL '4A'. SUPPLY AND INSTALL FEEDER TO NEW TRANSFORMER.
- 5 - SUPPLY AND INSTALL 120/208V PANEL '4LB'. SUPPLY AND INSTALL FEEDER TO EXISTING TRANSFORMER.
- 6 - REPLACE ALL RECEPTACLES AND COVER PLATES. CONTRACTOR TO PULL NEW WIRES AND RE-CIRCUIT RECEPTABLES.
- 7 - RECONNECT EXISTING PANEL LOADS TO NEW PANELS '4HA', '4A' AND '4LB'.



2 PHASE 5 ELECTRICAL ROOM 215 DETAIL PLAN
SCALE: 1/4" = 1'-0"

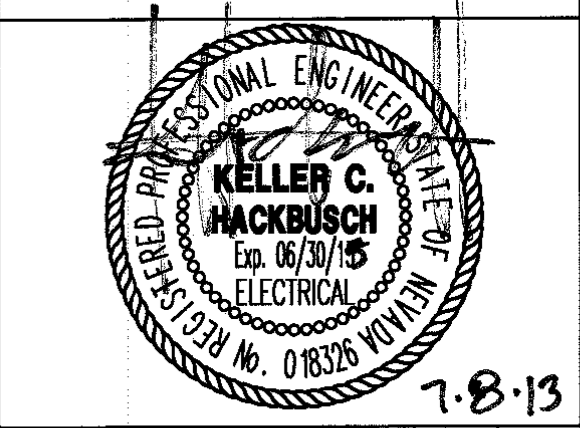
1 NEW ELECTRICAL PHASE 5 PLAN
SCALE: 1" = 10'-0"

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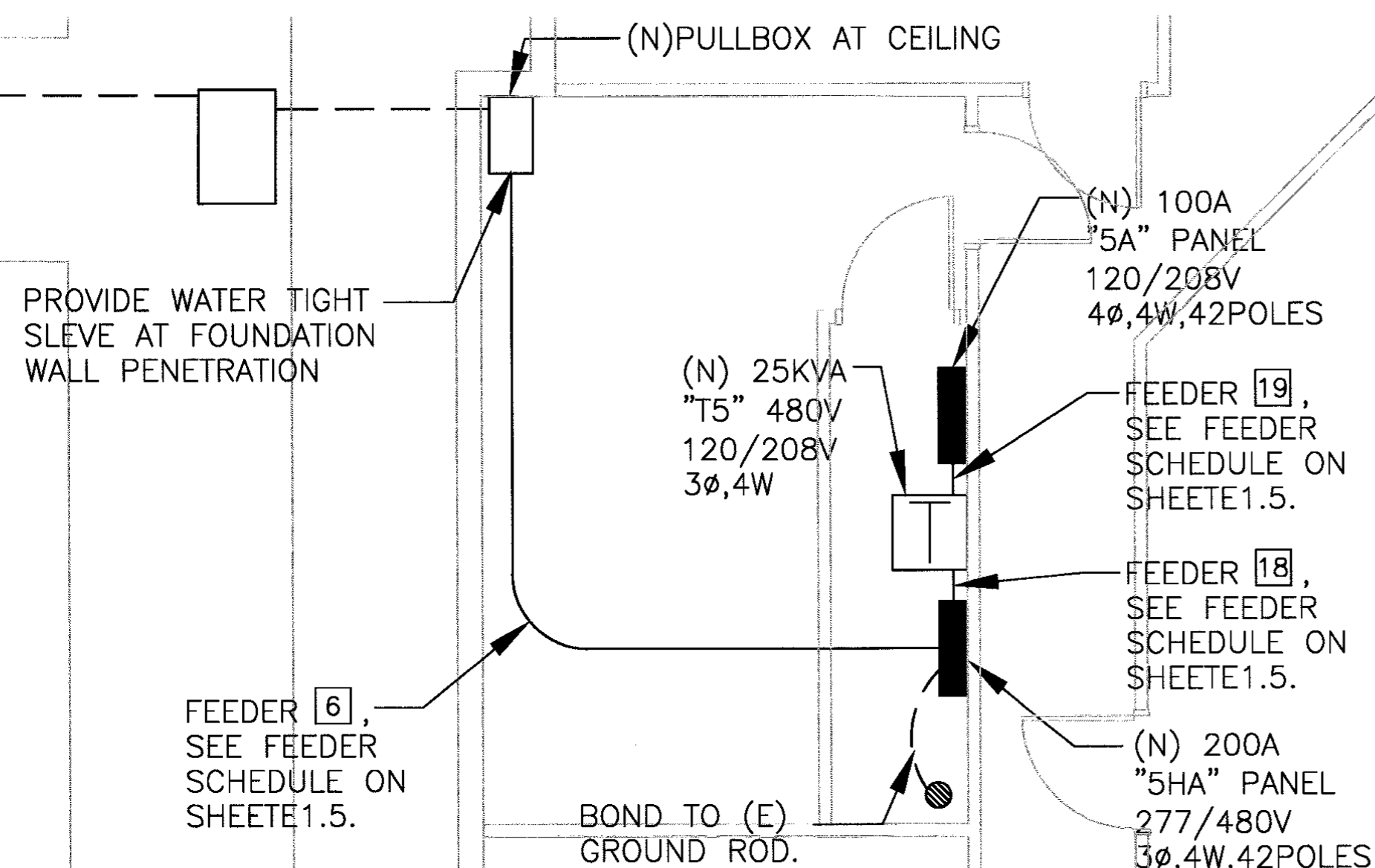
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ELECTRICAL
PHASE 5 PLAN

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E3.7

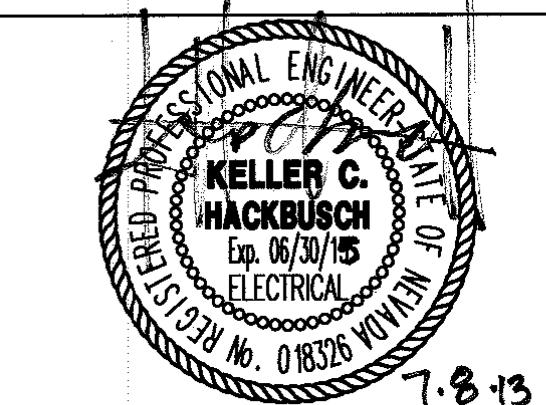


2 PHASE 6 ELECTRICAL ROOM 504 DETAIL PLAN
SCALE: 1/4" = 1'-0"

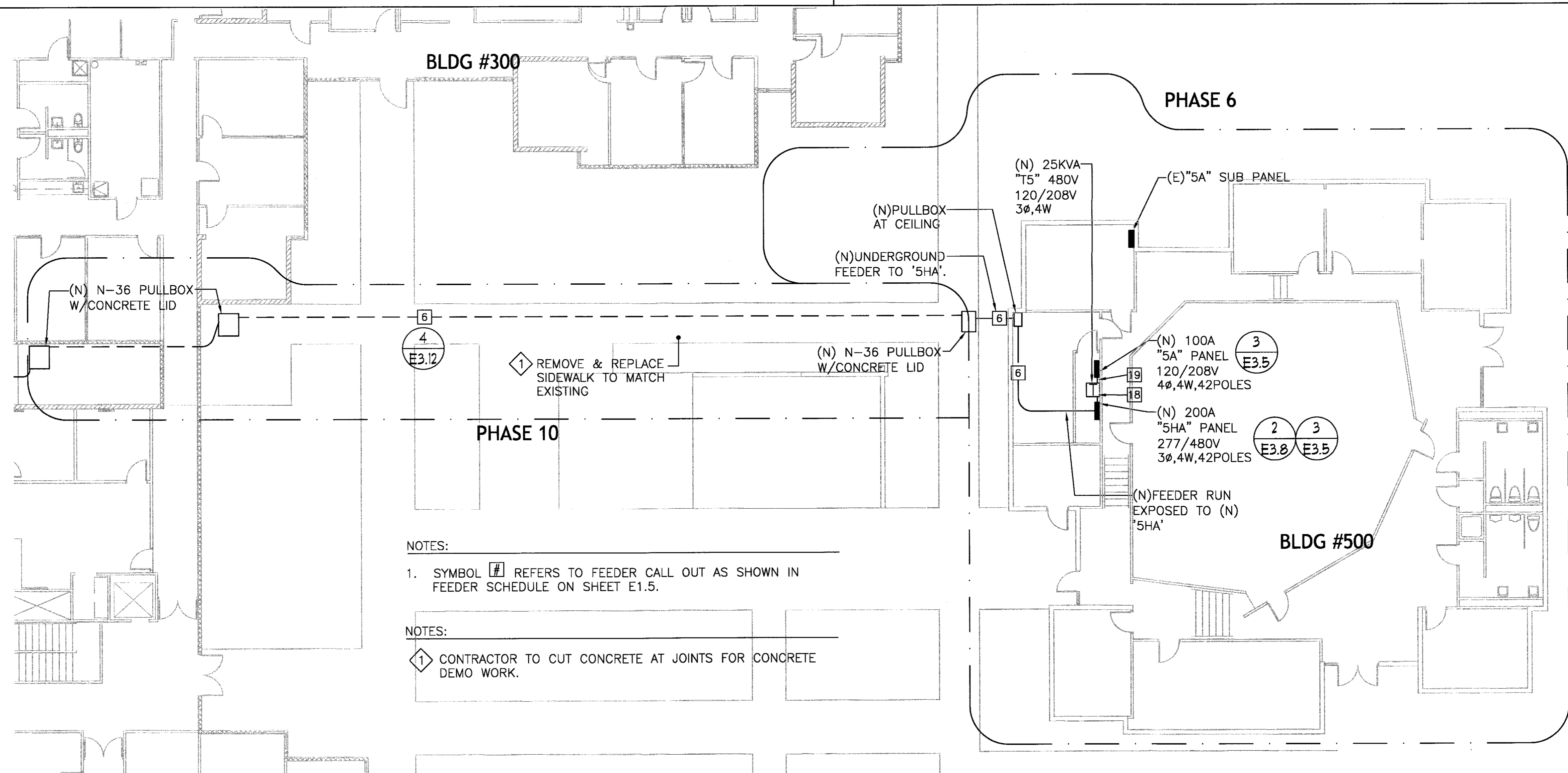
PHASE 6 KEYED NOTES:

- 1 - CONTRACTOR TO 'RING OUT' RECEPTACLES AND MAP OUT CIRCUITING. CONTRACTOR TO MOVE AND REPLACE OFFICE FURNITURE AS PART OF 'RING OUT' WORK.
- 2 - SUPPLY AND INSTALL 277/480V PANEL '5HA'. SUPPLY AND INSTALL FEEDER TO NEW MAIN SWITCHBOARD.
- 3 - SUPPLY AND INSTALL 480 X 120/208V TRANSFORMER. SUPPLY AND INSTALL FEEDER TO NEW PANEL '5HA'.
- 4 - SUPPLY AND INSTALL 120/208V PANEL '5A'. SUPPLY AND INSTALL FEEDER TO NEW TRANSFORMER.
- 5 - REPLACE ALL RECEPTACLES AND COVER PLATES. CONTRACTOR TO PULL NEW WIRES AND RE-CIRCUIT RECEPTABLES.
- 6 - RECONNECT ALL EXISTING PANEL LOADS TO NEW PANELS '5HA' AND '5A'.

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- NOTES:**
1. SYMBOL [E3.12] REFERS TO FEEDER CALL OUT AS SHOWN IN FEEDER SCHEDULE ON SHEET E1.5.
- NOTES:**
1. CONTRACTOR TO CUT CONCRETE AT JOINTS FOR CONCRETE DEMO WORK.

1 NEW ELECTRICAL PHASE 6 PLAN
SCALE: 1" = 10'-0"

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431 PRATER WAY
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CHECKED BY:	PKH/KCH
DATE:	06/19/13

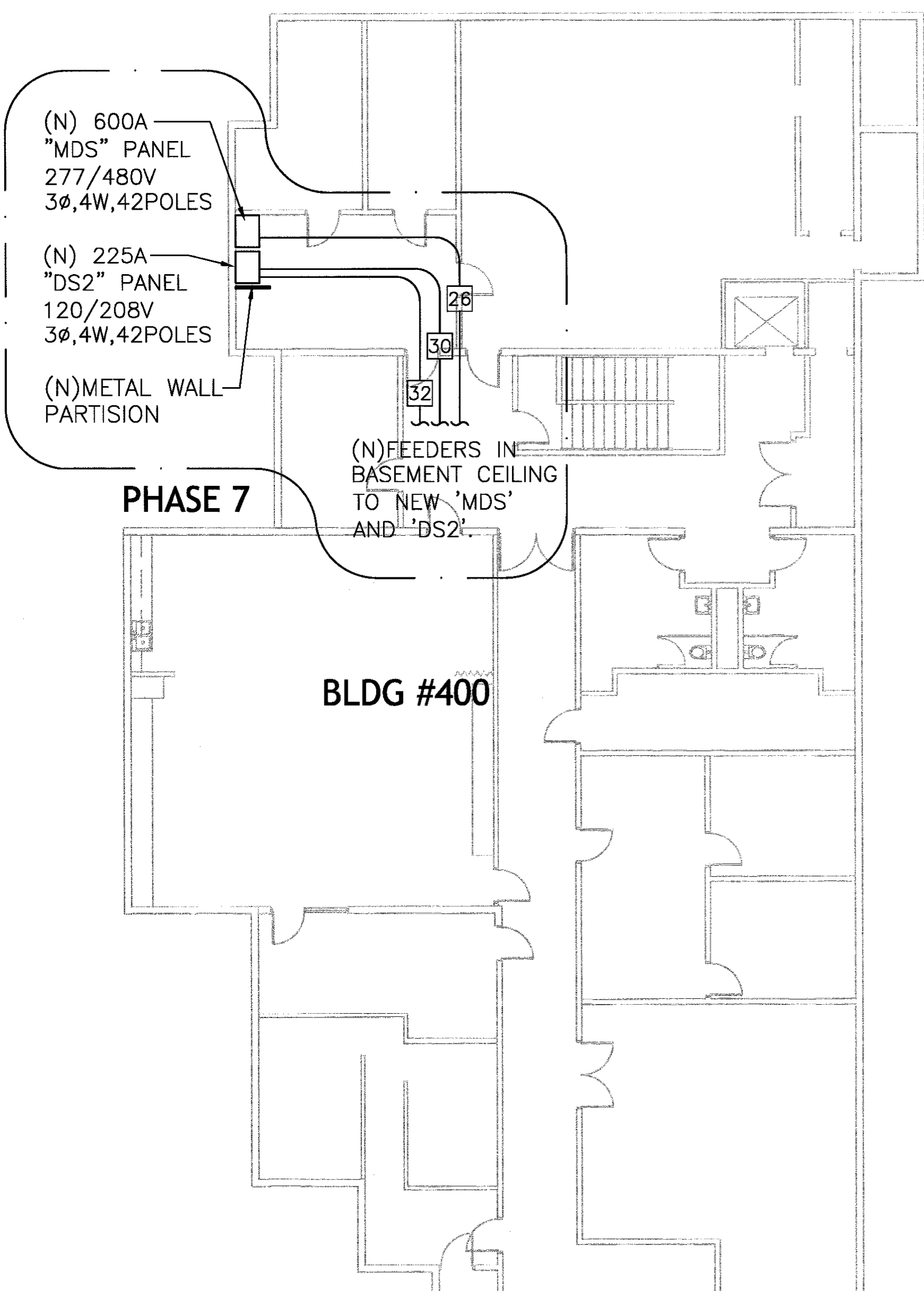
**ELECTRICAL
PHASE 6 PLAN**

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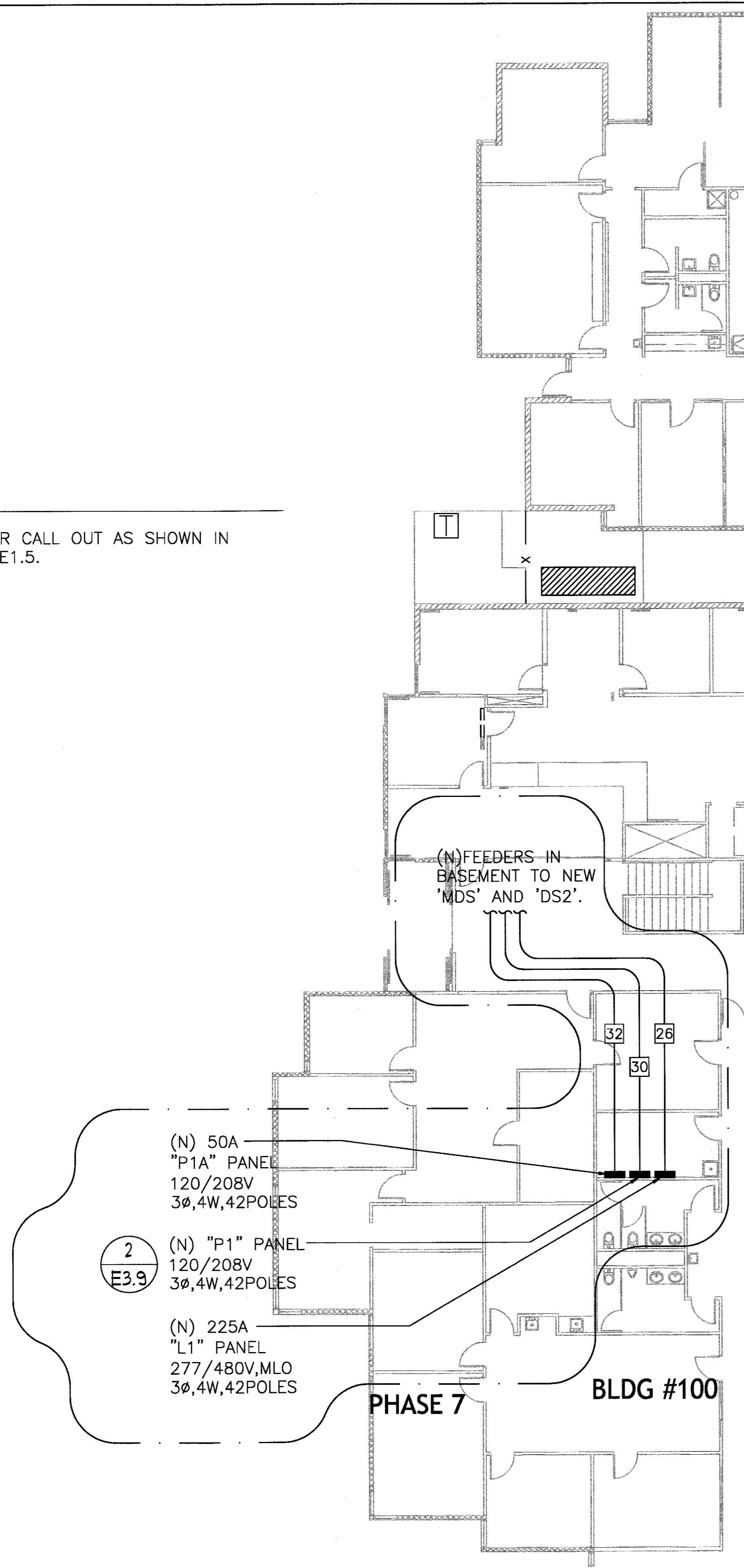
E3.8
SHEET 18 OF 24

NOTES:

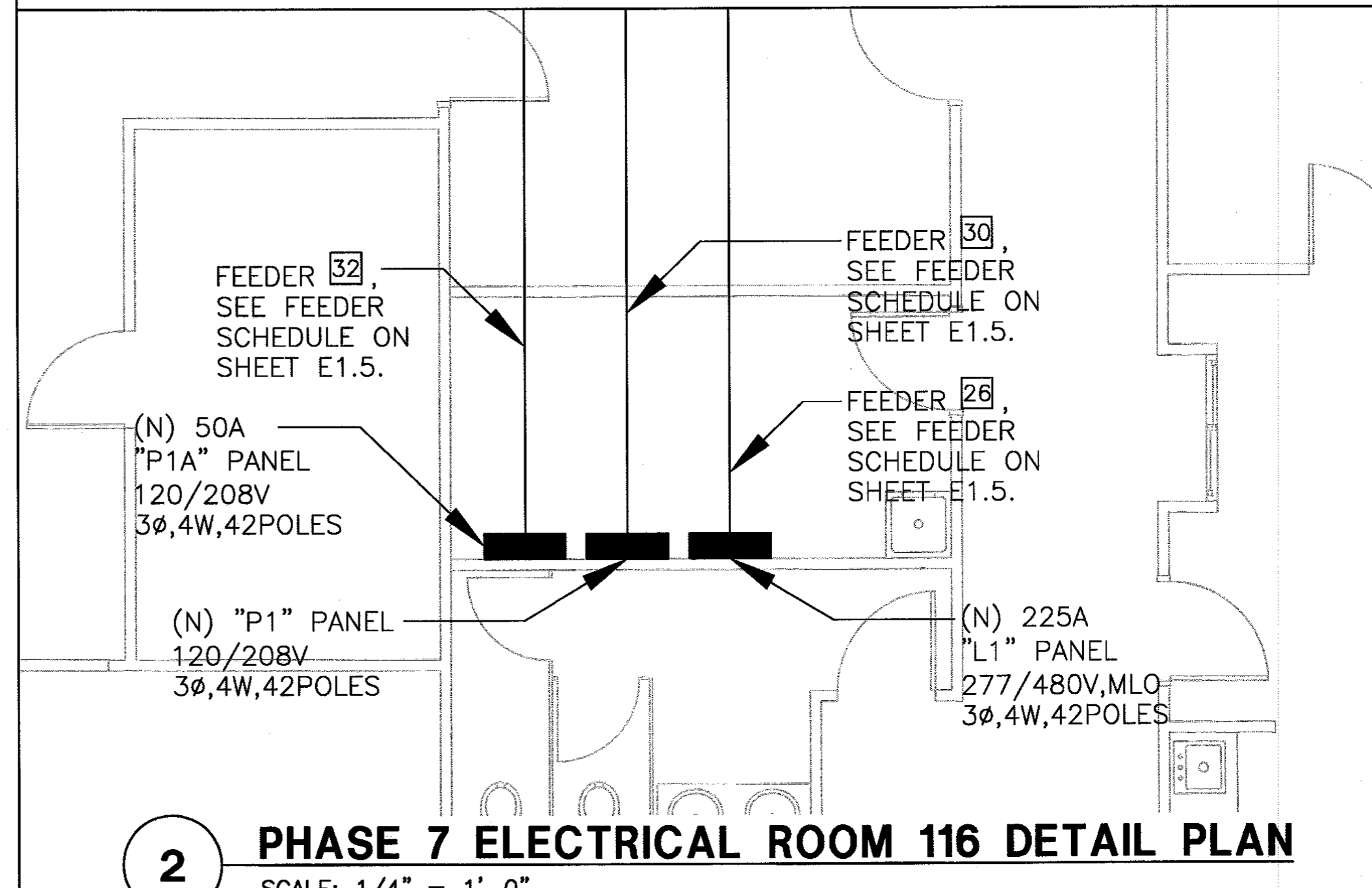
1. SYMBOL  REFERS TO FEEDER CALL OUT AS SHOWN IN FEEDER SCHEDULE ON SHEET E1.5.



1 NEW ELECTRICAL PHASE 7 PLAN
SCALE: 1" = 10'-0"



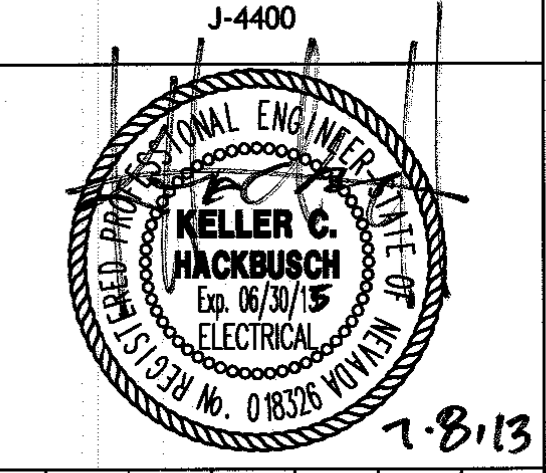
- PHASE 7 KEYED NOTES:
- 1 - CONTRACTOR TO 'RING OUT' RECEPTACLES AND MAP OUT CIRCUITS. CONTRACTOR TO MOVE AND REPLACE OFFICE FURNITURE AS PART OF 'RING OUT' WORK.
 - 2 - SUPPLY AND INSTALL 277/480V PANEL 'L1'. SUPPLY AND INSTALL FEEDER TO DISTRIBUTION PANEL 'MDS'.
 - 3 - SUPPLY AND INSTALL 120/208V PANEL 'P1', SUPPLY AND INSTALL FEEDER TO DISTRIBUTION PANEL 'DS2'.
 - 4 - SUPPLY AND INSTALL 120/208V PANEL 'P1A', SUPPLY AND INSTALL FEEDER TO DISTRIBUTION PANEL 'DS2'.
 - 5 - RECONNECT ALL EXISTING PANEL LOADS TO NEW PANELS 'L1', 'P1' AND 'P1A', NOT PART OF THE RE-CIRCUITING OF THE RECEPTACLES.



2 PHASE 7 ELECTRICAL ROOM 116 DETAIL PLAN
SCALE: 1/4" = 1'-0"

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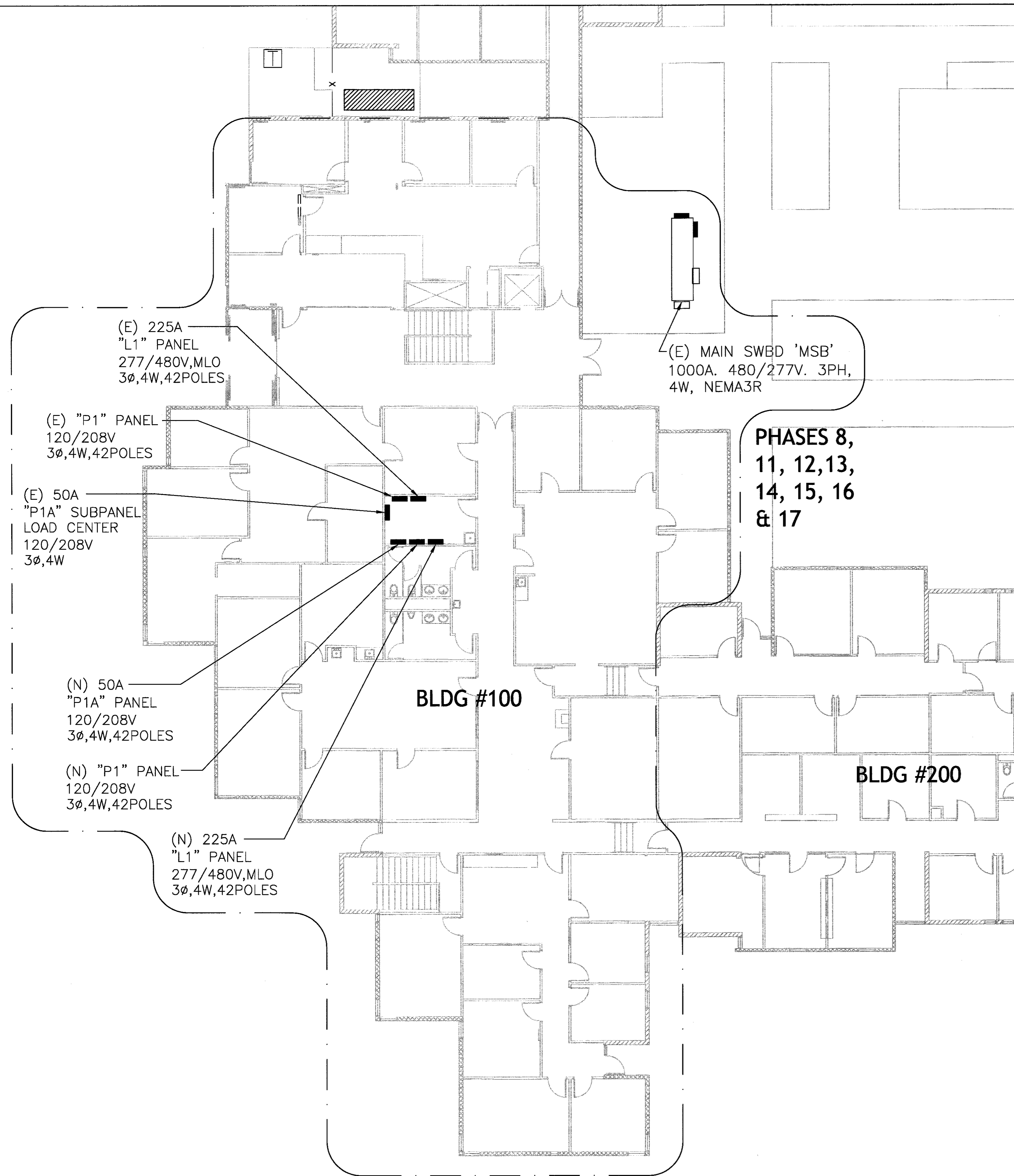
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DESIGNED BY: PKH	DRAWN BY: GLR	CHECKED BY: PKH/KCH	DATE: 06/19/13
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ELECTRICAL
PHASE 7 PLAN

E3.9
SHEET 19 OF 24



KEYED NOTES:

PHASE 8
1 - CONTRACTOR TO "RING-OUT" EXISTING RECEPTACLE CIRCUITS.

PHASE 11
1 - INSTALL NEW REPLACEMENT RECEPTACLES AND RE-CIRCUIT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE AREA OF WORK IN THIS AREA WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
2 - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.

PHASE 12
1 - INSTALL NEW REPLACEMENT RECEPTACLES AND RE-CIRCUIT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE AREA OF WORK IN THIS AREA WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
2 - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.

PHASE 13
1 - INSTALL NEW REPLACEMENT RECEPTACLES AND RE-CIRCUIT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE AREA OF WORK IN THIS AREA WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
2 - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.

PHASE 14
1 - INSTALL NEW REPLACEMENT RECEPTACLES AND RE-CIRCUIT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE AREA OF WORK IN THIS AREA WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
2 - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.

PHASE 15
1 - INSTALL NEW REPLACEMENT RECEPTACLES AND RE-CIRCUIT RECEPTACLES WITH NEW WIRE AND GROUND IN EXISTING CONDUITS. COORDINATE AREA OF WORK IN THIS AREA WITH CITY OF SPARKS TO GROUP WORK AREAS ACCORDING TO NUMBER OF STAFF RELOCATED TO EOC ROOM.
2 - RECONNECT EXISTING LIGHTING CIRCUITS AND ALL MISCELLANEOUS LOADS TO NEW PANELS.

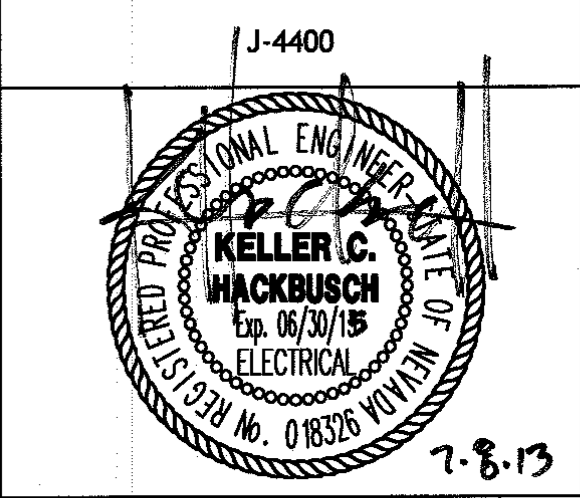
PHASE 16
1 - DEMOLISH EXISTING PANELS 'L1', 'P1' AND 'P1A' IN PHASE 7 BUILDING 300 GROUND FLOOR ELECTRICAL ROOM AND TRANSFORMERS AND RESTORE ROOM.

PHASE 17
1- DEMOLISH EXISTING SWITCHGEAR AND RESTORE COURTYARD SURFACE.

1 NEW ELECTRICAL PHASE 8, 11, 12, 13, 14, 15, 16 & 17 PLAN
SCALE: 1" = 10'-0"

BID DOCUMENTS
07-05-2013

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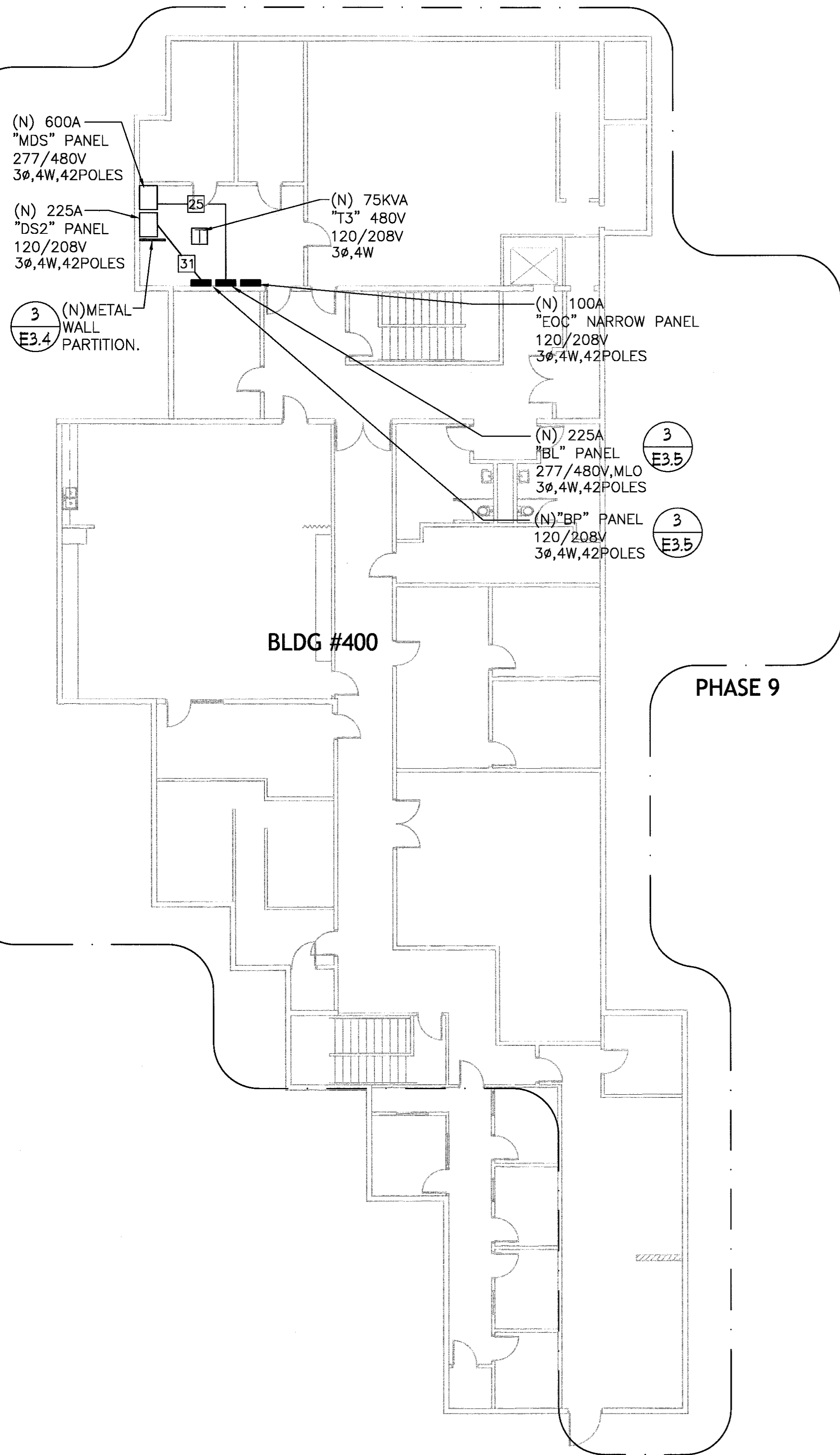
CITY OF SPARKS
CITY HALL ELECTRICAL
UPGRADE
431 PRATER WAY
SPARKS, NEVADA 89432

DESIGNED BY:	PKH	DATE:	06/19/13
DRAWN BY:	GLR		
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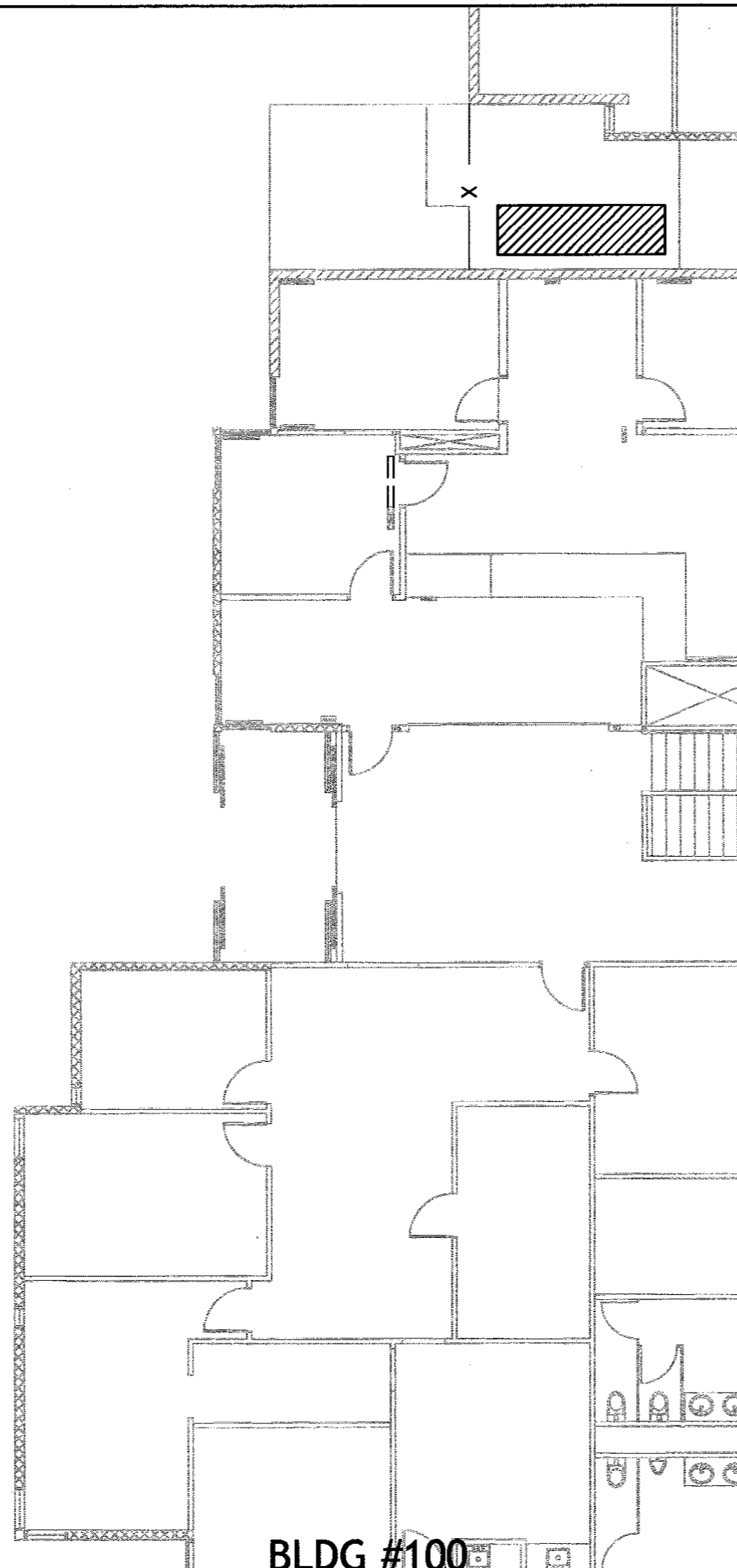
ELECTRICAL
PHASE 8, 11-17 PLAN

NOTES:

1. SYMBOL  REFERS TO FEEDER CALL OUT AS SHOWN IN FEEDER SCHEDULE ON SHEET E1.5.



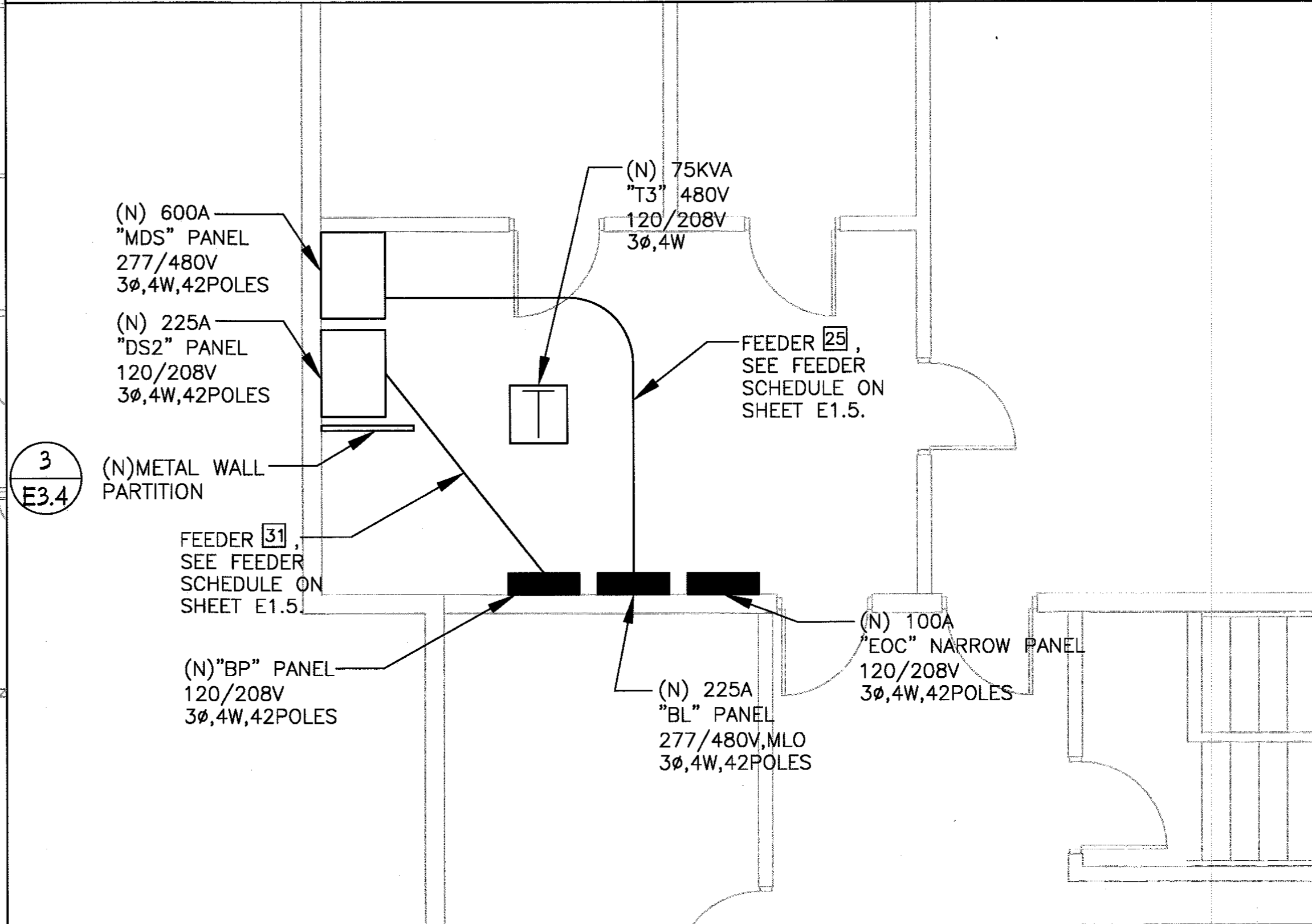
1 NEW ELECTRICAL PHASE 9 PLAN
SCALE: 1" = 10'-0"



BLDG #100

PHASE 9 KEYED NOTES:

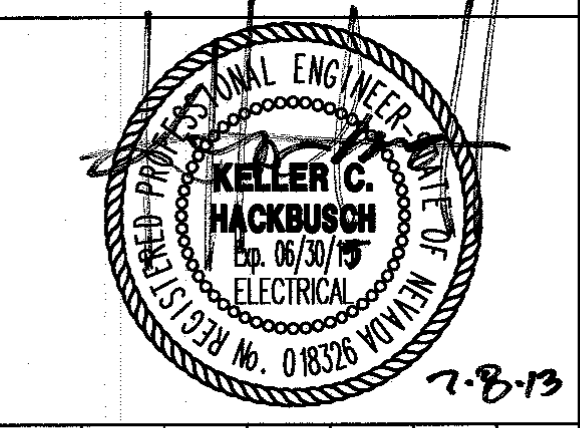
- 1 - CONTRACTOR TO 'RING OUT' RECEPTACLES AND MAP OUT CIRCUITING. CONTRACTOR TO MOVE AND REPLACE OFFICE FURNITURE AS PART OF 'RING OUT' WORK.
- 2 - SUPPLY AND INSTALL 277/480V PANEL 'BP'. SUPPLY AND INSTALL FEEDER TO NEW DISTRIBUTION PANEL 'DS2'
- 3 - SUPPLY AND INSTALL 120/208V PANEL 'PL' COVER PLATES. CONTRACTOR TO PULL NEW WIRES AND RE-CIRCUIT RECEPTACLES.
- 5 - RECONNECT EXISTING PANEL LOADS TO NEW PANELS 'BP' AND 'PL'.



2 PHASE 9 ELECTRICAL ROOM 402 DETAIL PLAN
SCALE: 1/4" = 1'-0"

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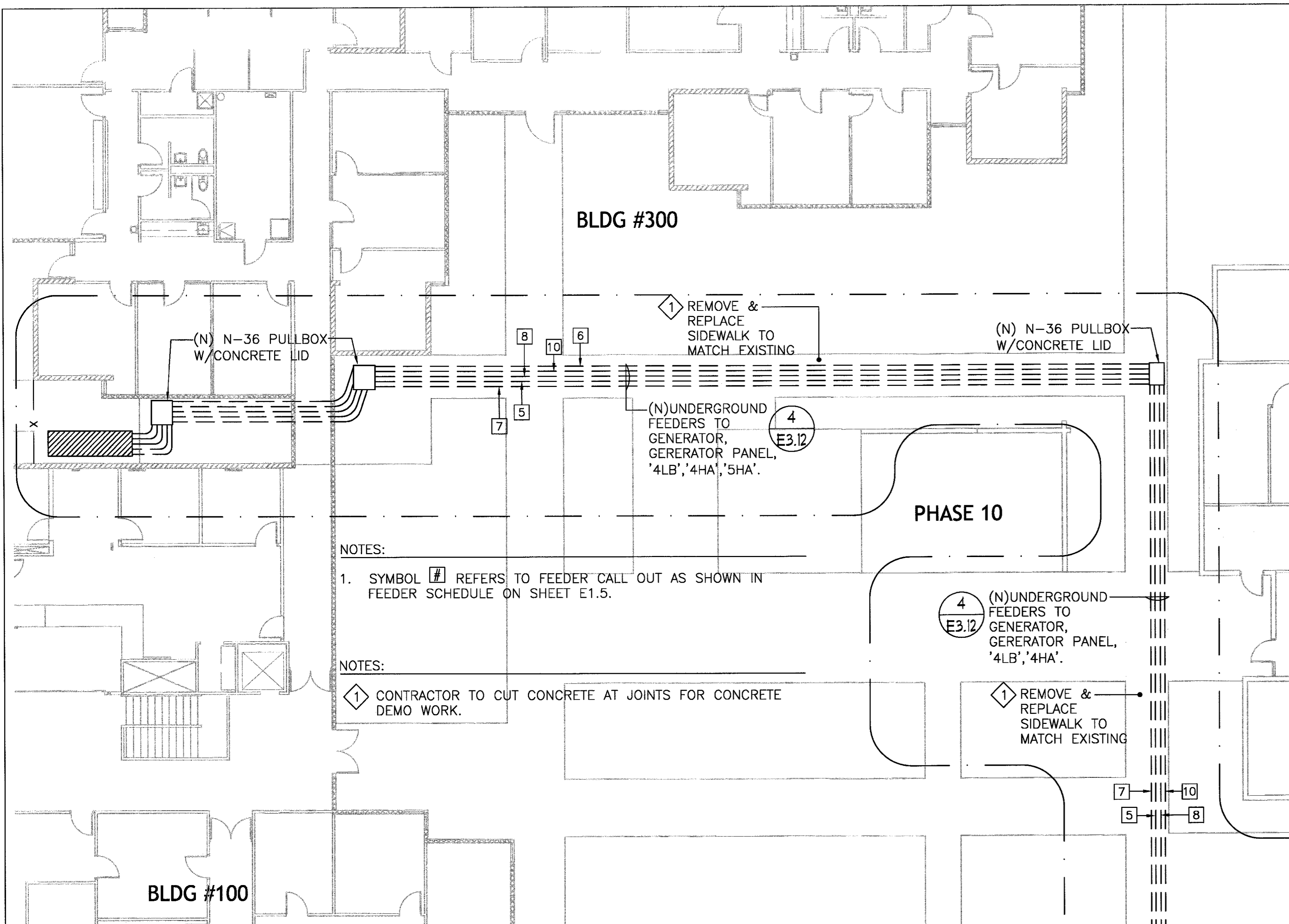
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ELECTRICAL
PHASE 9 PLAN

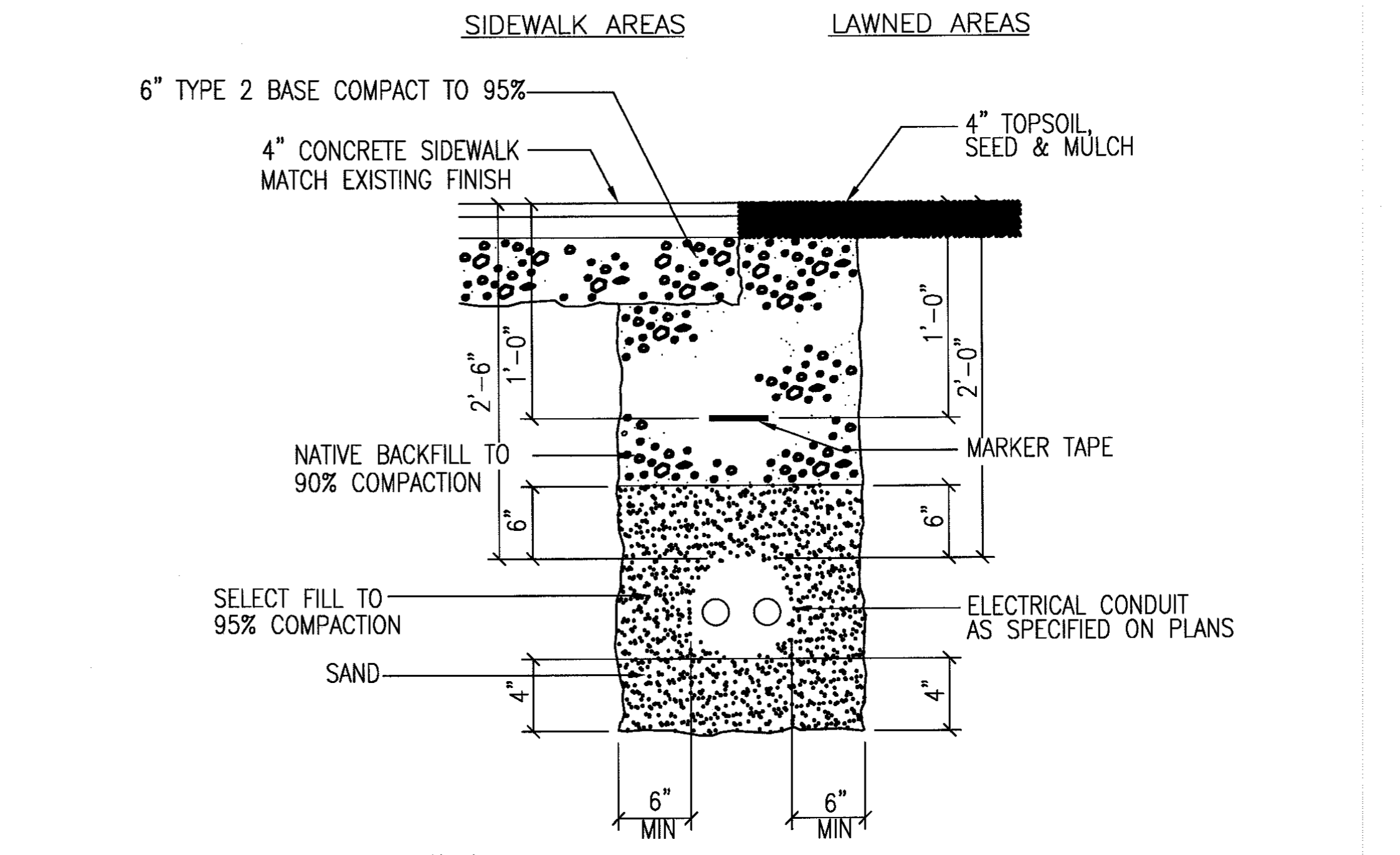
E3.11
SHEET 21 OF 24



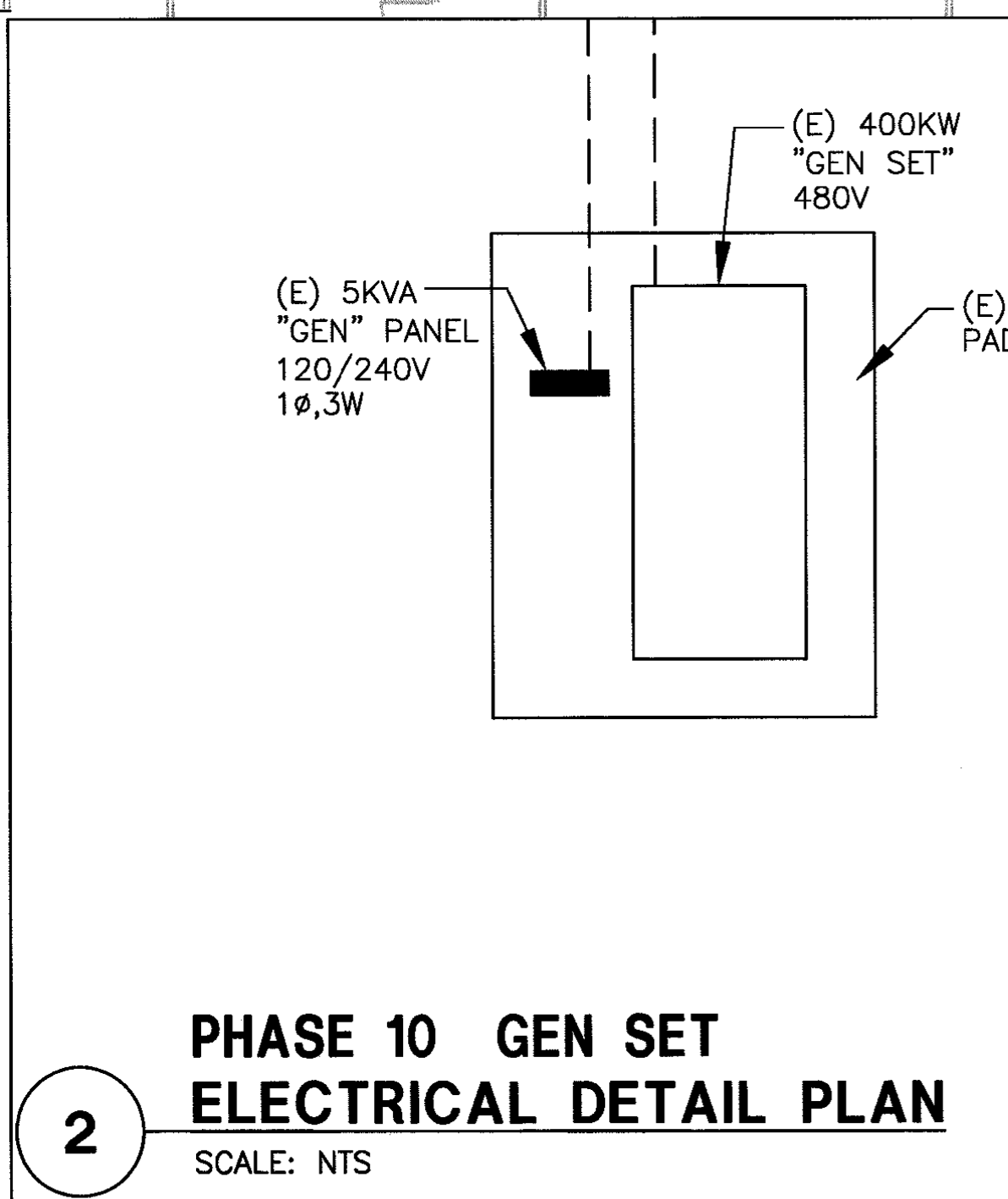
NOTES:
 1. SYMBOL [H] REFERS TO FEEDER CALL OUT AS SHOWN IN FEEDER SCHEDULE ON SHEET E1.5.

NOTES:
 1. CONTRACTOR TO CUT CONCRETE AT JOINTS FOR CONCRETE DEMO WORK.

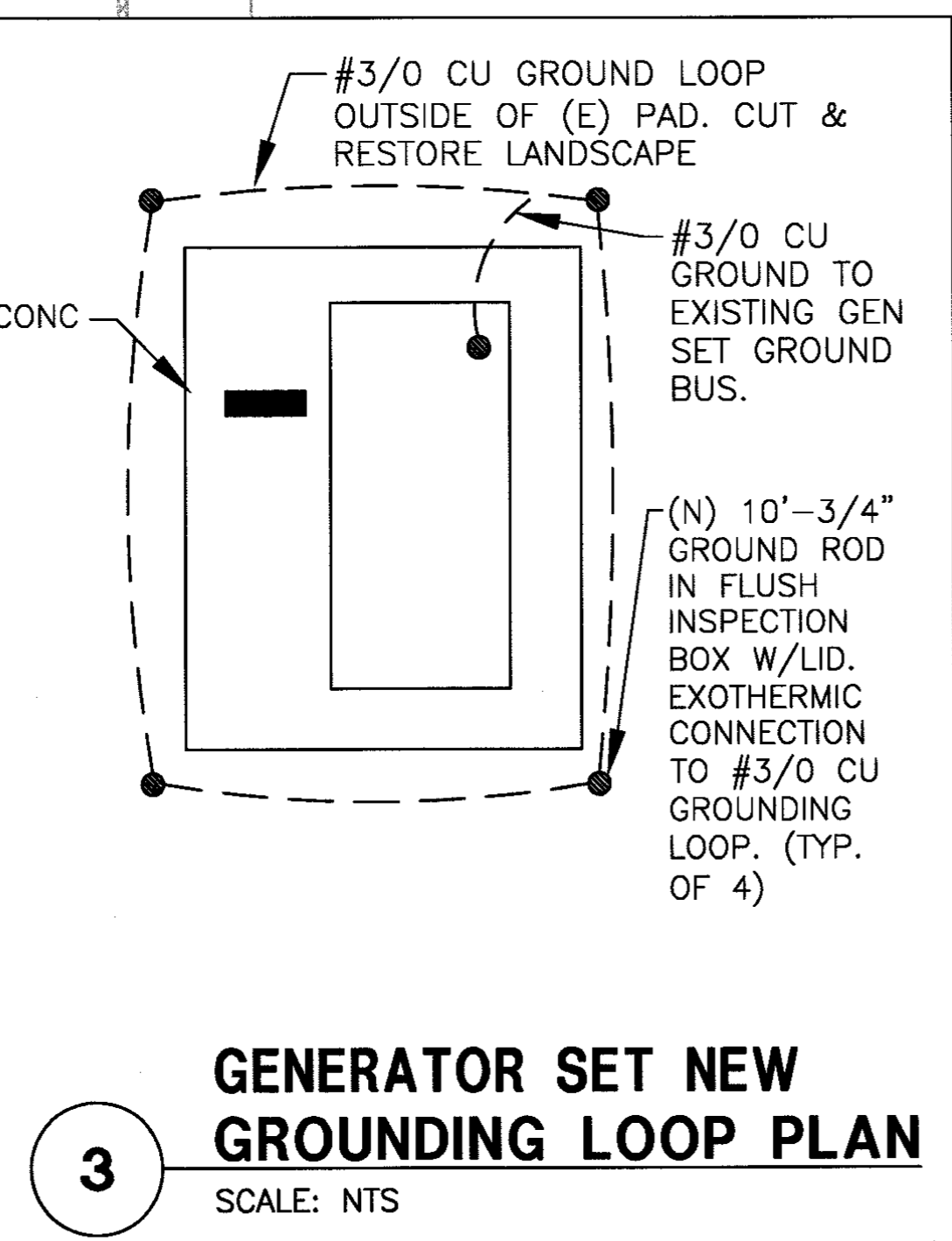
- PHASE 9 KEYED NOTES:**
- 1 - DEMO CONCRETE SIDEWALK.
 - 2 - SUPPLY AND INSTALL N-36 PULL BOXES, (TYP. OF 3).
 - 3 - CONTRACTOR TO CUT TREE ROOTS TO FIT CONDUITS, BACKFILL AND PROVIDE 6" THICK CONCRETE SIDEWALK: SO FINISHED SIDEWALK IS A FLAT SURFACE.
 - 4 - SUPPLY AND INSTALL NEW FEEDER TO GENERATOR TRANS/PANEL 120/208V PANEL 'GEN'.
 - 5 - SUPPLY AND INSTALL NEW GENERATOR SET GROUNDING LOOP, SEE 3/E3.12.
 - 6 - RECONNECT EXISTING PANEL LOADS TO NEW PANELS 'GEN'.



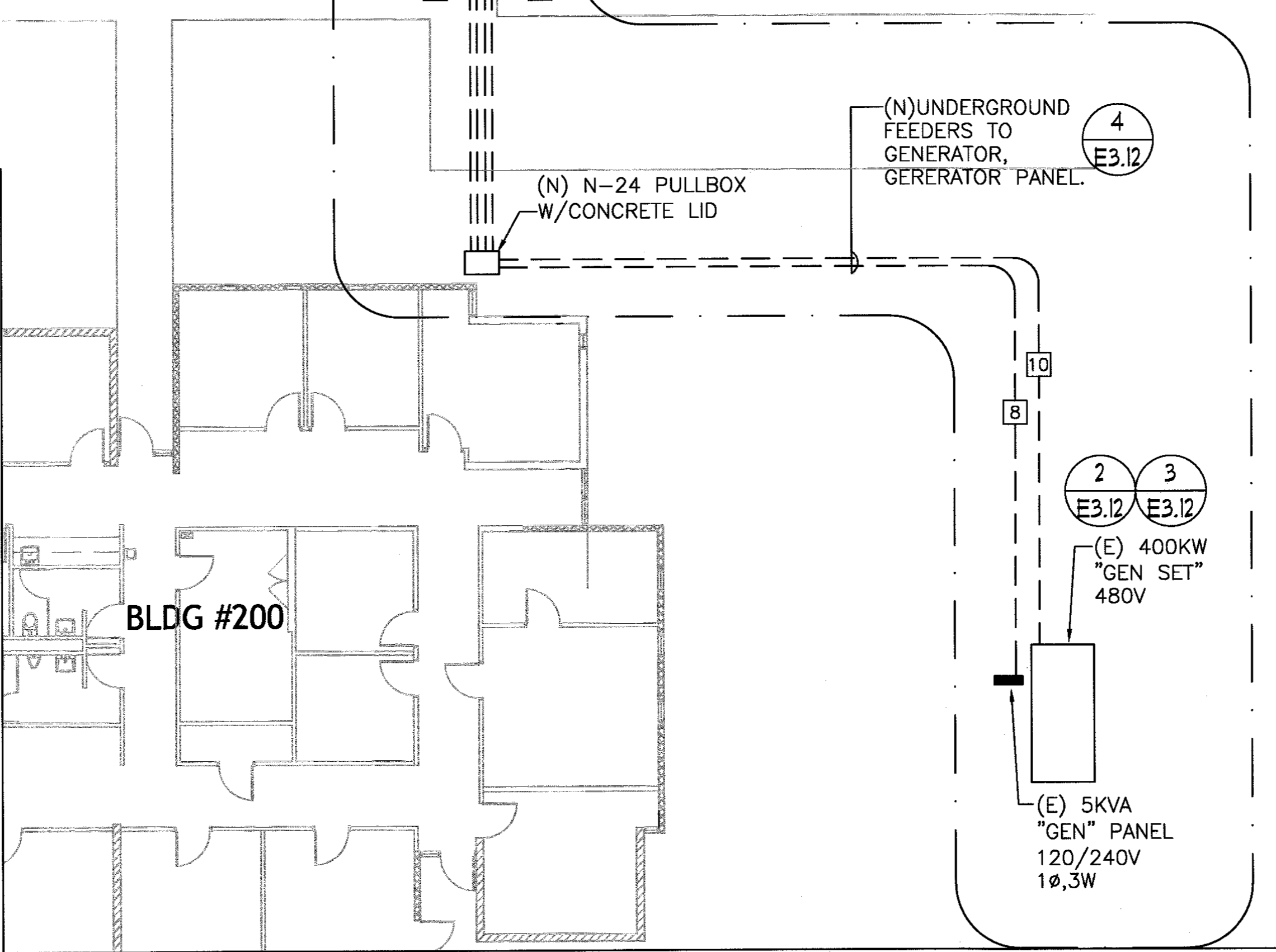
4 ELECTRICAL TRENCH AND SURFACE RESTORATION DETAIL
 SCALE: NTS



2 PHASE 10 GEN SET ELECTRICAL DETAIL PLAN
 SCALE: NTS

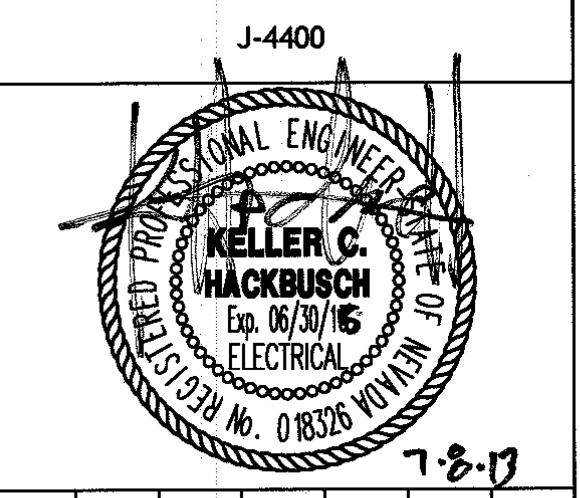


3 GENERATOR SET NEW GROUNDING LOOP PLAN
 SCALE: NTS



1 NEW ELECTRICAL PHASE 10 PLAN
 SCALE: 1" = 10'-0"

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**CITY OF SPARKS
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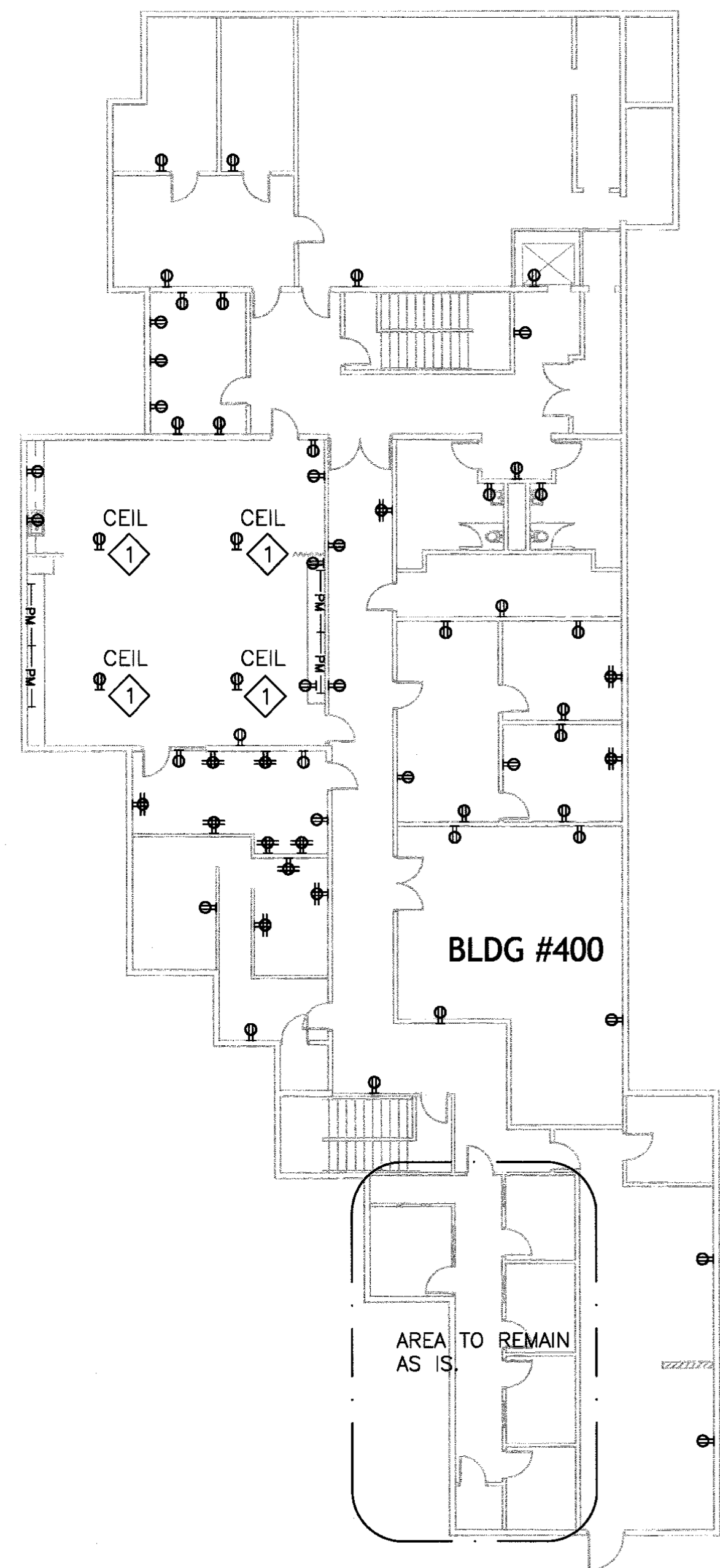
**ELECTRICAL
 PHASE 10 PLAN**

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- NOTES:
1. THE CONVENIENCE RECEPTACLES ARE SHOWN FOR REFERENCE ONLY PLANS DO NOT PURPORT TO SHOW ALL EXISTING CONDITIONS. CONTRACTOR SHALL VERIFY IN FIELD.
 2. THIS PLAN INDICATES A PERFORMANCE WORK ITEM THAT REQUIRES THE CONTRACTOR TO LOCATE ALL RECEPTACLES AND TO TRACE ("RING-OUT") ALL WIRING AND IDENTIFY ORIGIN OF CIRCUITING.
 3. INTENT IS TO REPLACE ALL RECEPTACLES WITH NEW DEVICE, WIRING AND COVER PLATE, AND REUSE (E) CONDUITS WHERE EVER POSSIBLE FOR NEW CIRCUITING.
 4. REFER TO PHASING PLANS FOR SCHEDULING WORK.
 5. CONTRACTOR SHALL MOVE ALL FURNITURE AS REQUIRE TO ACCESS RECEPTACLES AND RETURN FURNITURE TO ORIGINAL POSITION. TAKE CARE TO PROTECT ALL ITEMS WITHIN EACH OFFICE SPACE.

- NOTES:
- ① EXISTING CEILING RECEPTACLES ARE AT THE END OF A CABLE COILED IN CEILING SPACE SITTING ON THE CEILING TILE.

3 QUAD OUTLETS, 2 ARE MOUNTED ABOVE ONE.
 5 QUAD OUTLETS, 4 ARE MOUNTED ABOVE ONE.

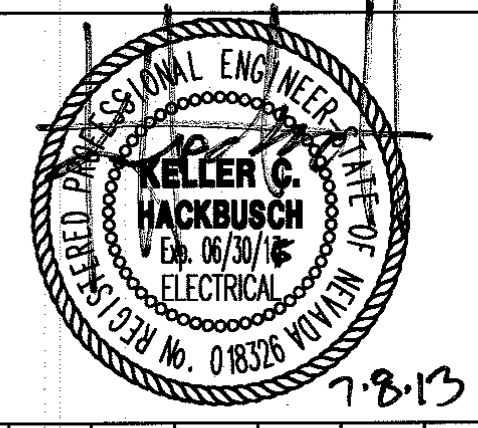


BLDG #400 BASEMENT



① EXISTING ELECTRICAL OUTLET PLAN
 SCALE: NTS

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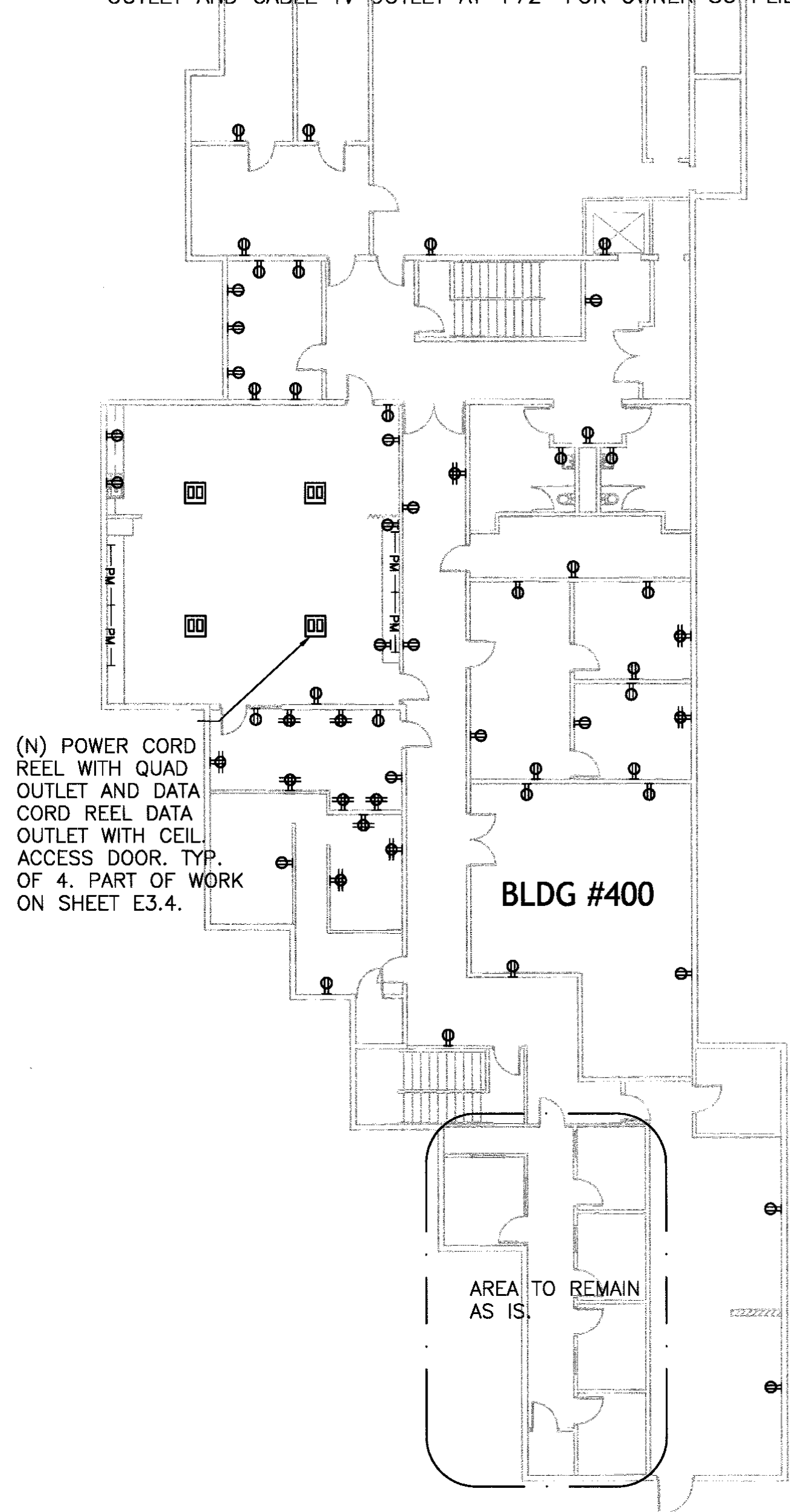
ELECTRICAL
 EXISTING ELECTRICAL
 OUTLET PLAN

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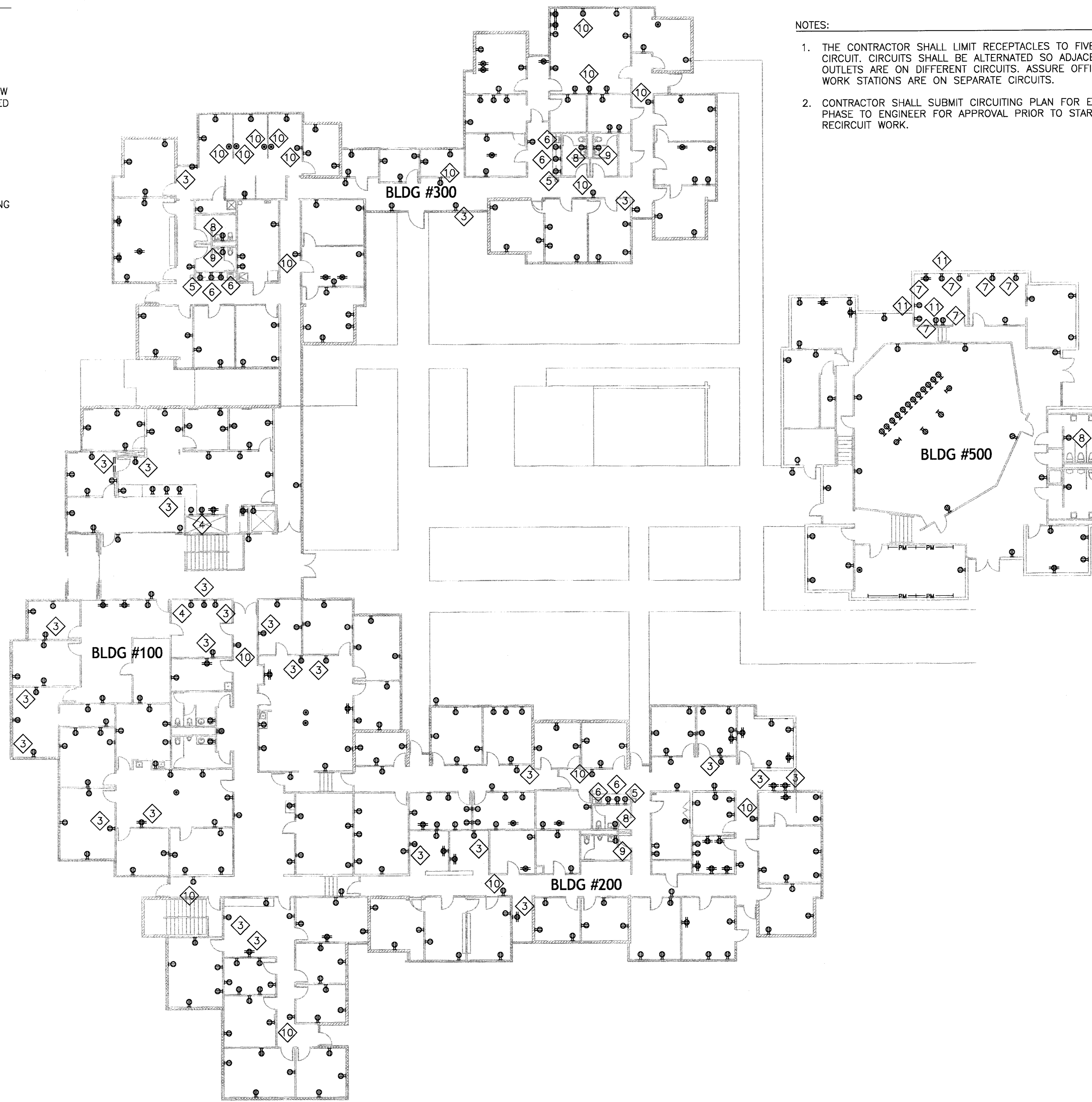
E4.1
 SHEET 23 OF 24

NOTES:

- 1 CONTRACTOR SHALL VERIFY ALL ELECTRICAL OUTLET LOCATIONS; AND TEST AND MAP CIRCUITING OF ALL ELECTRICAL OUTLETS. THE ELECTRICAL CONTRACTOR SHALL INSTALL NEW RECEPTACLES AND COVER PLATES IN (E) BOX UNLESS SHOWN AS NEW AND PULL NEW CONDUCTORS, RECIRCUIT THE OUTLETS AND LABEL INSIDE OF RECEPTACLE COVER PLATE WITH PANEL CIRCUIT NUMBER.
- 2 IN ADDITION TO NEW RECEPTACLES SHOWN, ELECTRICAL CONTRACTOR SHALL ADD 40 NEW ELECTRICAL OUTLETS AND CIRCUIT AS LISTED IN NOTE #1. LOCATIONS TO BE DETERMINED BY OWNER.
- 3 ELECTRICAL CONTRACTOR SHALL ADD NEW DEDICATED GROUNDED ELECTRICAL OUTLET USING EXISTING OUTLET FOR PLOTTER, PRINTER OR FAX AS DIRECTED IN NOTE 1.
- 4 NEW ELECTRICAL DEDICATED GROUNDED OUTLET FOR PLOTTER, PRINTER OR FAX AS DIRECTED IN NOTE 1.
- 5 ELECTRICAL CONTRACTOR SHALL ADD NEW DEDICATED GFI ELECTRICAL OUTLET AT EXISTING COUNTER HEIGHT OUTLET AT THE PERSONAL BEVERAGE/FOOD AREA.
- 6 NEW ELECTRICAL DEDICATED GFI OUTLET AT COUNTER HEIGHT AT THE PERSONAL BEVERAGE/FOOD COUNTER.
- 7 ELECTRICAL CONTRACTOR SHALL ADD NEW DEDICATED 15A CIRCUITS WITH GROUNDED ELECTRICAL OUTLET FOR OWNER SUPPLIED TREADMILL.
- 8 NEW GFI ELECTRICAL OUTLET AT +48" IN WOMEN'S RESTROOMS.
- 9 ELECTRICAL CONTRACTOR SHALL ADD NEW DEDICATED GFI ELECTRICAL OUTLET FOR EXISTING MEN'S RESTROOM OUTLETS.
- 10 NEW ELECTRICAL GROUNDED ELECTRICAL OUTLET NOT ONE OF THE OWNER'S 40 NEW ELECTRICAL OUTLETS AS DESCRIBED IN SHEET NOTE 2.
- 11 ELECTRICAL CONTRACTOR SHALL ADD NEW 20A CIRCUITS WITH GROUND ELECTRICAL OUTLET AND CABLE TV OUTLET AT +72" FOR OWNER SUPPLIED TVS.



BLDG #400 BASEMENT



NOTES:

1. THE CONTRACTOR SHALL LIMIT RECEPTACLES TO FIVE PER CIRCUIT. CIRCUITS SHALL BE ALTERNATED SO ADJACENT OUTLETS ARE ON DIFFERENT CIRCUITS. ASSURE OFFICE WORK STATIONS ARE ON SEPARATE CIRCUITS.
2. CONTRACTOR SHALL SUBMIT CIRCUITING PLAN FOR EACH PHASE TO ENGINEER FOR APPROVAL PRIOR TO STARTING RECIRCUIT WORK.

1 NEW ELECTRICAL OUTLET PLAN
SCALE: NTS

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KELLER C. HACKBUSCH
Exp. 06/30/15
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7.8.13

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ELECTRICAL
NEW ELECTRICAL
OUTLET PLAN

E4.2