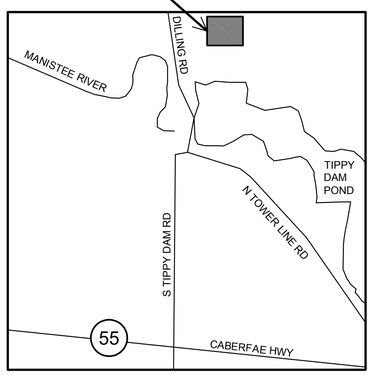
TIPPY DAM FIELD OFFICE

MANISTEE COUNTY, MICHIGAN

MECHANICAL AND ELECTRICAL BID PACKAGE
PROJECT NO. 24-3156

TIPPY DAM FIELD OFFICE
DILLING ROAD
MANISTEE COUNTY



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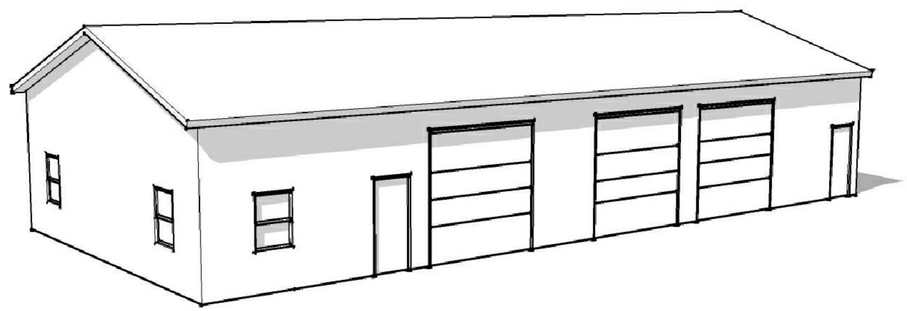
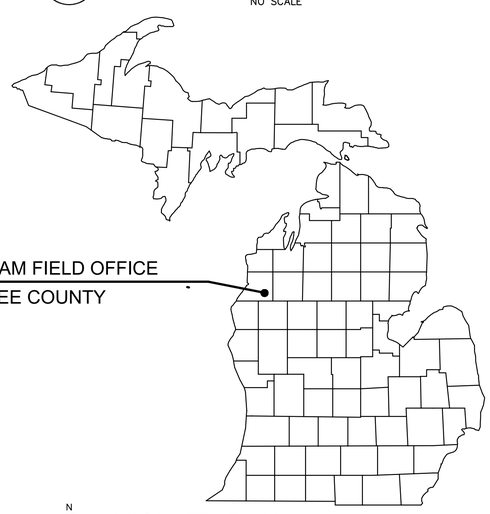
LOCATION MAP

NO SCALE





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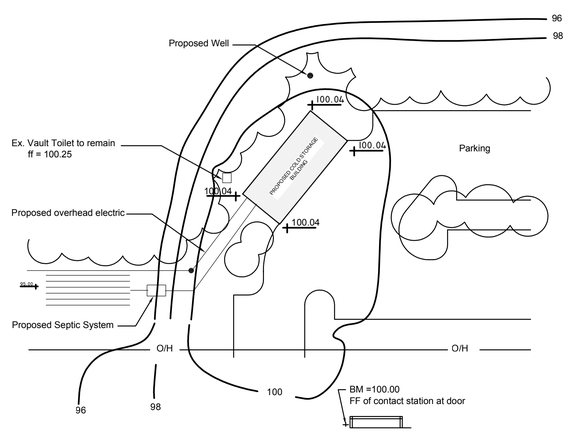
VICINITY PLAN

NO SCALE



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SITE PLAN

NO SCALE

DRAWING INDEX

T TITLE SHEET

MECHANICAL

M-1 PLUMBING AND VENTILATION PLANS

ELECTRICAL

E-1 LIGHTING PLAN
E-2 ELECTRICAL PLAN

72 HOURS
(3 WORKING DAYS)
BEFORE YOU DIG
CALL MISS DIG
800-482-7171
(TOLL-FREE)

STATE OF MICHIGAN
DEPARTMENT OF NATURAL RESOURCES
RECREATION DIVISION
P.O. BOX 30257 LANSING, MI 48909-7933
517.373.9906 VOICE 517.373.4625 FAX

03/07/10	BIDS & CONSTRUCTION
08/06/07	PLAN REVIEW REVISIONS
06/05/07	BIDS & CONSTRUCTION
05/16/07	90% OWNER REVIEW
04/06/07	50% OWNER REVIEW

BUILD OUT FOR
TIPPY DAM FIELD OFFICE
MANISTEE COUNTY

TITLE SHEET

PROJECT NO.	24-3156
INDEX	55010
PCA	95713
DRAWN BY	PS
DESIGNED BY	PS
PROJ. MGR.	PS

T

EXHAUST FAN SCHEDULE

LOCATION	MANUFACTURER	MODEL	C.F.M.	E.S.P.	RPM	DRIVE	FAN MOTOR		REMARKS
							HP	VOLTS	
BATHROOM	BROAN	696	125	1/8	1550	DIRECT	90 WATTS	120	SEE SPECIFICATIONS

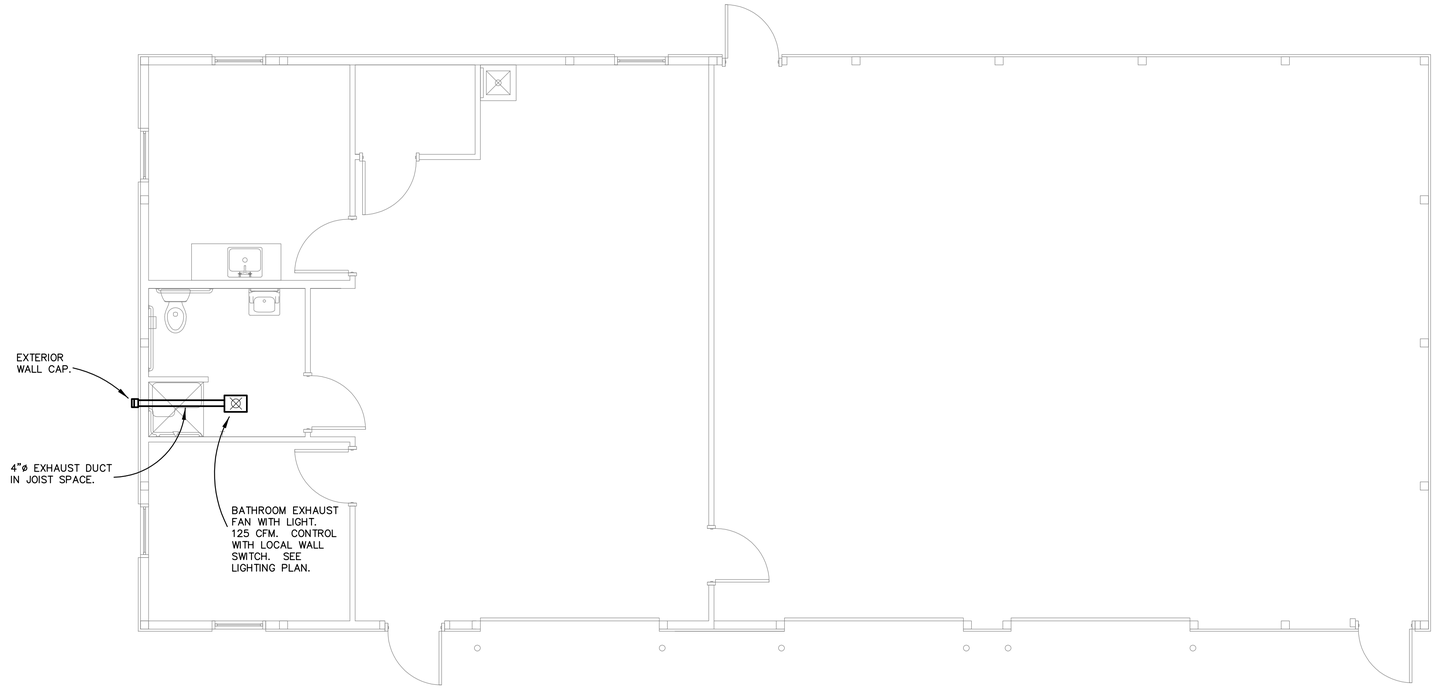
PLUMBING SCHEDULE

FIXTURE	W	CW	HW
WATER CLOSET	3"	1/2"	——
LAVATORY	1-1/4"	1/2"	1/2"
EYEWASH	1-1/4"	1/2"	——
BREAK ROOM SINK	1-1/4"	1/2"	1/2"
SERVICE SINK	1-1/4"	1/2"	1/2"
SHOWER	2"	1/2"	1/2"
FLOOR CLEANOUT	3"	——	——

FOR FIXTURE MOUNTING HEIGHTS SEE TYPICAL MOUNTING HEIGHTS DETAIL ON SHEET A-1.

PLUMBING LEGEND

⋈	GATE VALVE
U	TRAP
—V—	VENT LINE
— — —	BELOW SLAB WASTE LINE
— - —	COLD WATER LINE
— - - —	HOT WATER LINE
CO	CLEAN OUT
CW	COLD WATER
HW	HOT WATER
V	VENT
VTR	VENT THRU ROOF
W	WASTE



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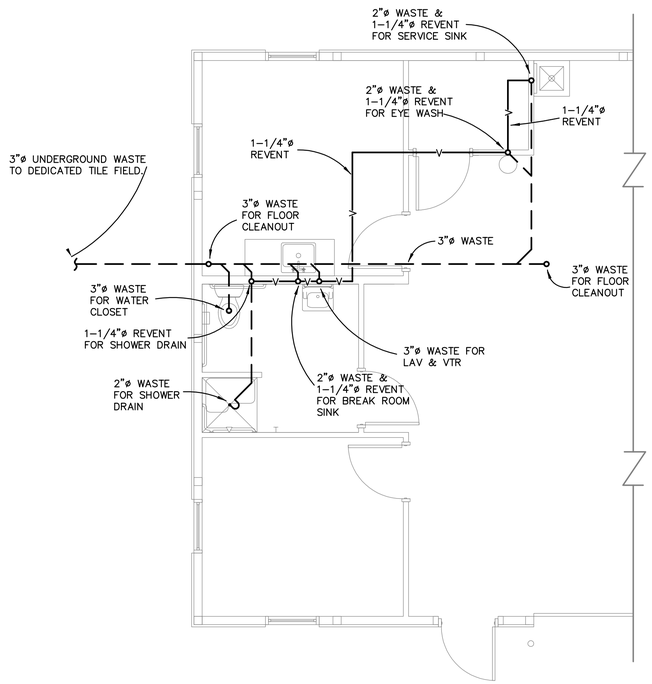
VENTILATION PLAN

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



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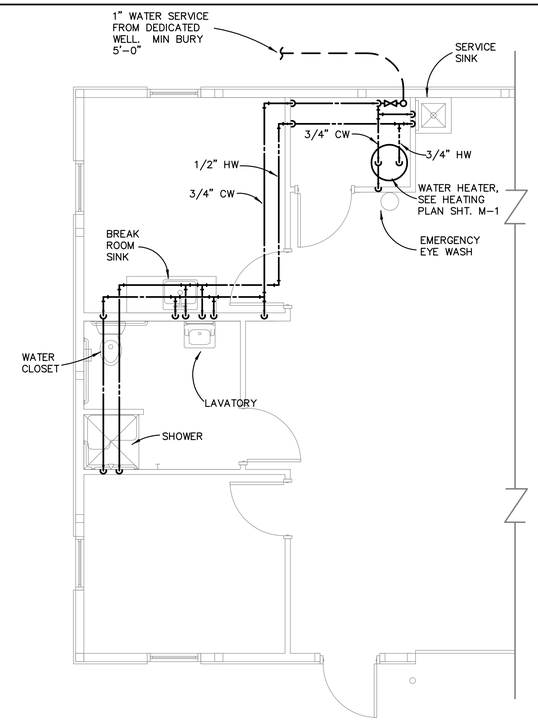
WASTE PLUMBING PLAN

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



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SUPPLY PLUMBING PLAN

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

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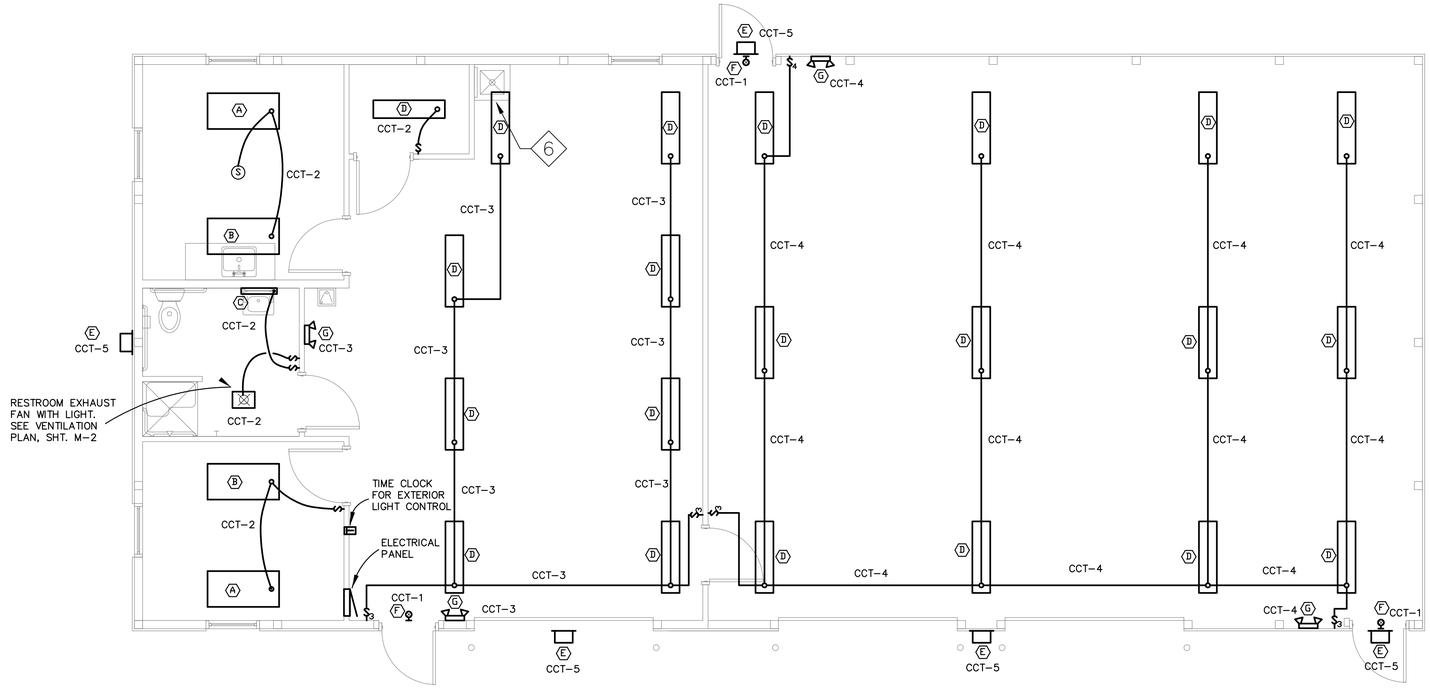
M-1

ELECTRICAL LEGEND

- EXIT SIGN
- EMERGENCY LIGHT W/ BATTERY
- 2'x4' FLUORESCENT FIXTURE
- 1'x4' FLUORESCENT FIXTURE
- EXTERIOR HPS FIXTURE
- OCCUPANCY SENSOR LIGHTING CONTROL
- SINGLE POLE SWITCH
- THREE WAY SWITCH
- LIGHT FIXTURE MARK
- CCT-3 BRANCH CIRCUIT NUMBER
- TIME CLOCK (EXTERIOR LIGHTS)
- ELECTRICAL PANEL
- EXPOSED CONDUIT
- CONCEALED CONDUIT

A	AMPS
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
CCT	CIRCUIT
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HP	HORSE POWER
P	POLE
V	VOLT
W	WIRE
WP	WEATHER PROOF



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LIGHTING PLAN

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

LIGHTING FIXTURE SCHEDULE

MARK	MANUF.	CAT. NUMBER	DESCRIPTION	LAMPS	REMARKS
A	METALUX	2EP3MX-332S36I-UNV-ER81	2'x4' SURFACE MOUNT FLUORESCENT FIXTURE W/ 18 PARABOLIC LOUVERS	(3) F32T8	SURFACE MOUNT ON CEILING.
B	METALUX	2EP3MX-332S36I-EM-UNV-ER81	2'x4' SURFACE MOUNT FLUORESCENT FIXTURE W/ 18 PARABOLIC LOUVERS	(3) F32T8	PROVIDE WITH FACTORY INSTALLED EMERGENCY BATTERY.
C	METALUX	BC117-UNV-EB81-U	2' WALL MOUNT FLUORESCENT	(1) F17	WALL MOUNT ABOVE MIRROR.
D	METALUX	DIM-248HO-120V-UNV-AD-ICN2S86-U-WG\DI-4FT-B	4' INDUSTRIAL LOW TEMPERATURE FLUORESCENT W/ WIRE GUARD	(2) F48T8HO	SURFACE MOUNT ON CEILING.
E	LUMARK	HPMN-70H-120V-LL	WALL MOUNT EXTERIOR HIGH PRESSURE SODIUM FIXTURE	(1) 70W HPS	STANDARD BRONZE FINISH. WALL MOUNT 14' ABOVE GRADE.
F	SURE LITES	UX71RWH	EXIT SIGN WITH BATTERY	LED	WALL MOUNT ABOVE DOOR.
G	SURE LITES	UEL1WHSD	EMERGENCY LIGHT WITH BATTERY	12W, MR16	WALL MOUNT 8'-0" ABOVE FIN. FLOOR. CONNECT EMERGENCY BATTERY LIGHT TO AREA LIGHTING CIRCUIT AHEAD OF LOCAL SWITCH CONTROL.

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E-1

ELECTRICAL LEGEND

- EXIT SIGN
- EMERGENCY LIGHT W/ BATTERY
- 2'x4' FLUORESCENT FIXTURE
- 1'x4' FLUORESCENT FIXTURE
- EXTERIOR HPS FIXTURE
- (S) OCCUPANCY SENSOR LIGHTING CONTROL
- $ SINGLE POLE SWITCH
- $3 THREE WAY SWITCH
- (A) LIGHT FIXTURE MARK
- CCT-3 BRANCH CIRCUIT NUMBER
- TIME CLOCK (EXTERIOR LIGHTS)
- GFCI DUPLEX RECEPTACLE
- 50A. 240V RECEPTACLE FOR WELDER COORDINATE WITH OWNER
- TELEPHONE DEVICE BOX WITH 1/2" CONDUIT HOME RUN TO PHONE SERVICE BOARD IN MECH. ROOM. COORDINATE CABLE WITH PHONE SERVICE.
- C COMPUTER DEVICE BOX WITH 1/2" CONDUIT HOME RUN AND PULL STRING TO SERVICE BOARD IN MECH. ROOM.
- SINGLE PHASE MOTOR
- ELECTRICAL PANEL
- EQUIPMENT CONTROL PANEL
- FUSED DISCONNECT
- MOTOR STARTER
- FC FAN SPEED CONTROLLER
- EXPOSED CONDUIT
- CONCEALED CONDUIT

A	AMPS
AC	6 INCHES ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
C	CONDUIT
CCT	CIRCUIT
GFI	GROUND FAULT INTERRUPTER
GRD	GROUND
HP	HORSE POWER
P	POLE
V	VOLT
W	WIRE
WP	WEATHER PROOF

ELECTRICAL NOTES

ALL WIRING SHALL BE IN CONDUIT.

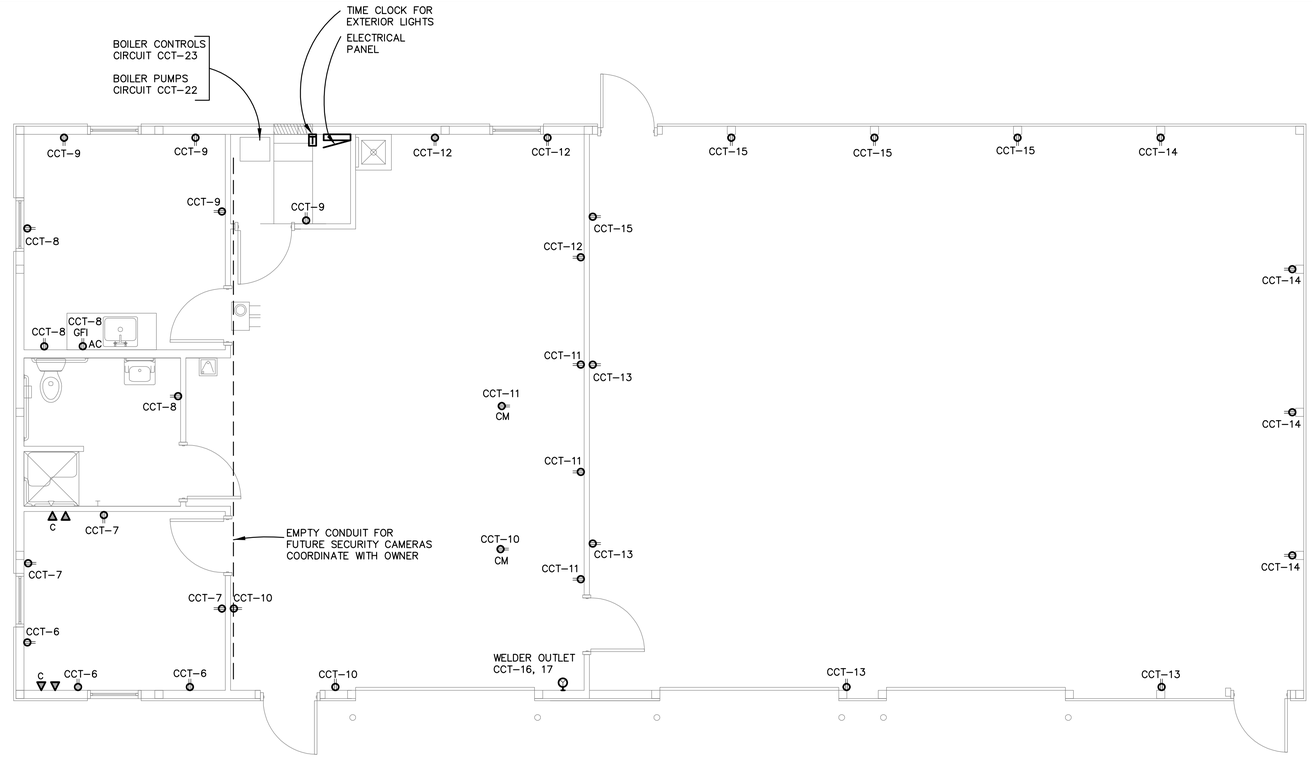
RECEPTACLES IN THE COLD STORAGE, HEATED SHOP, BATHROOM, MECHANICAL ROOM AND ABOVE COUNTER IN THE BREAK ROOM SHALL BE GFCI WITH TEST AND RESET BUTTONS AS DESCRIBED IN THE SPECIFICATIONS.

RECEPTACLES IN THE BATHROOM, HEATED SHOP, COLD STORAGE AND MECHANICAL ROOM SHALL BE MOUNTED AT 48 INCHES ABOVE FINISHED FLOOR.

CIRCUIT NUMBERS ON THE PLAN REPRESENT SINGLE POLE SPACES IN THE ELECTRICAL PANEL AND DO NOT CORRESPOND TO ACTUAL PANEL PHASING.

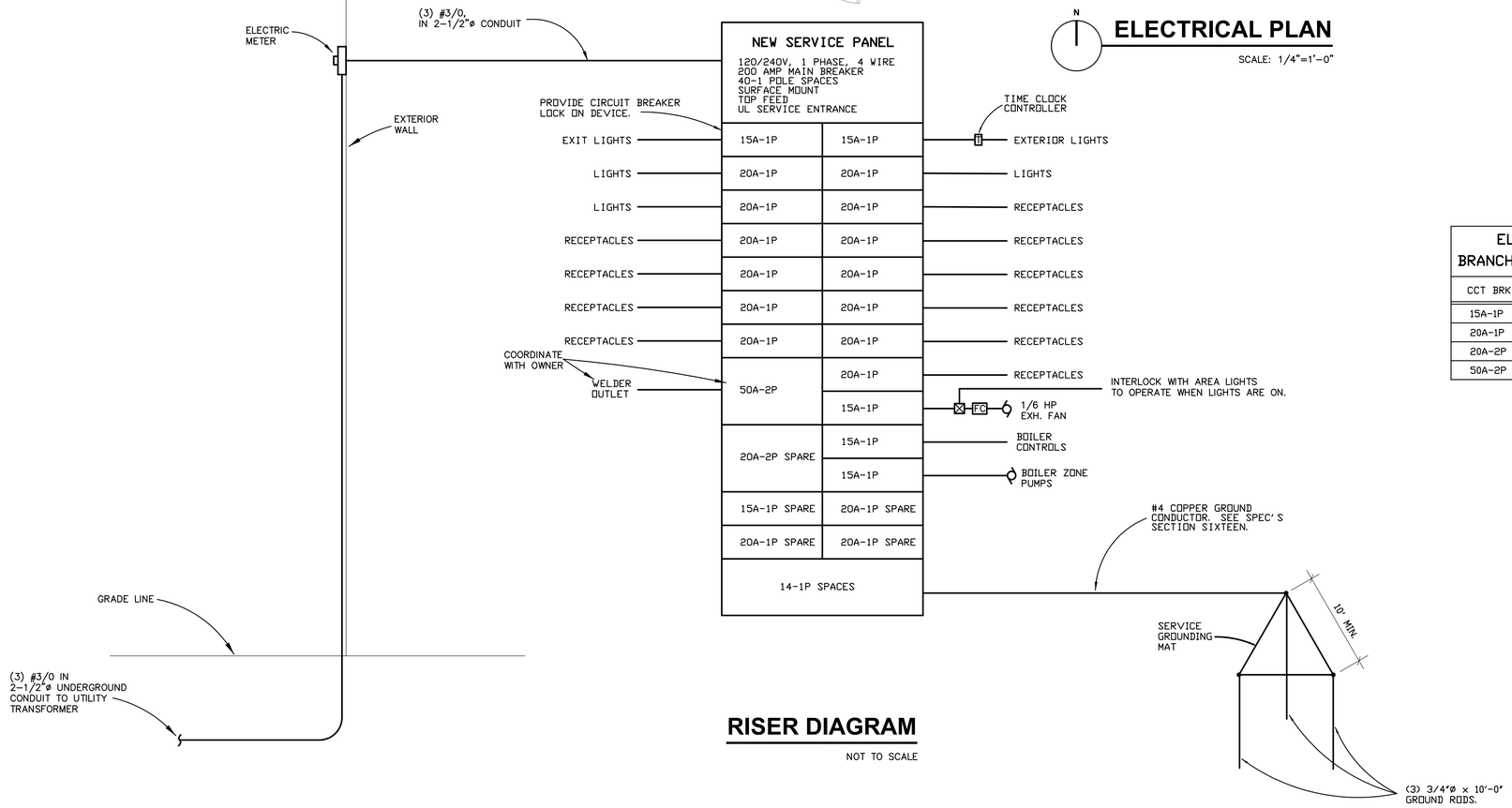
CIRCUIT BREAKER ARRANGEMENT INDICATED ON THE ELECTRICAL RISER DIAGRAM DO NOT NECESSARILY CORRESPOND TO ACTUAL BREAKER ARRANGEMENT OF PANEL PHASING. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO BALANCE THE LOADS ON THE PANEL AT TIME OF INSTALLATION.

PROVIDE A TYPEWRITTEN DIRECTORY IN THE ELECTRICAL PANEL DOORS, ACCURATELY INDICATING ROOMS AND/OR EQUIPMENT BEING SERVED.



ELECTRICAL PLAN

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



RISER DIAGRAM

NOT TO SCALE

ELECTRICAL PANEL BRANCH CCT WIRE SCHEDULE

CCT BRK	WIRE	GRD	CONDUIT
15A-1P	2 #12	1 #12	3/4"ø
20A-1P	2 #12	1 #12	3/4"ø
20A-2P	3 #12	1 #12	3/4"ø
50A-2P	3 #6	1 #6	1-1/4"ø

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