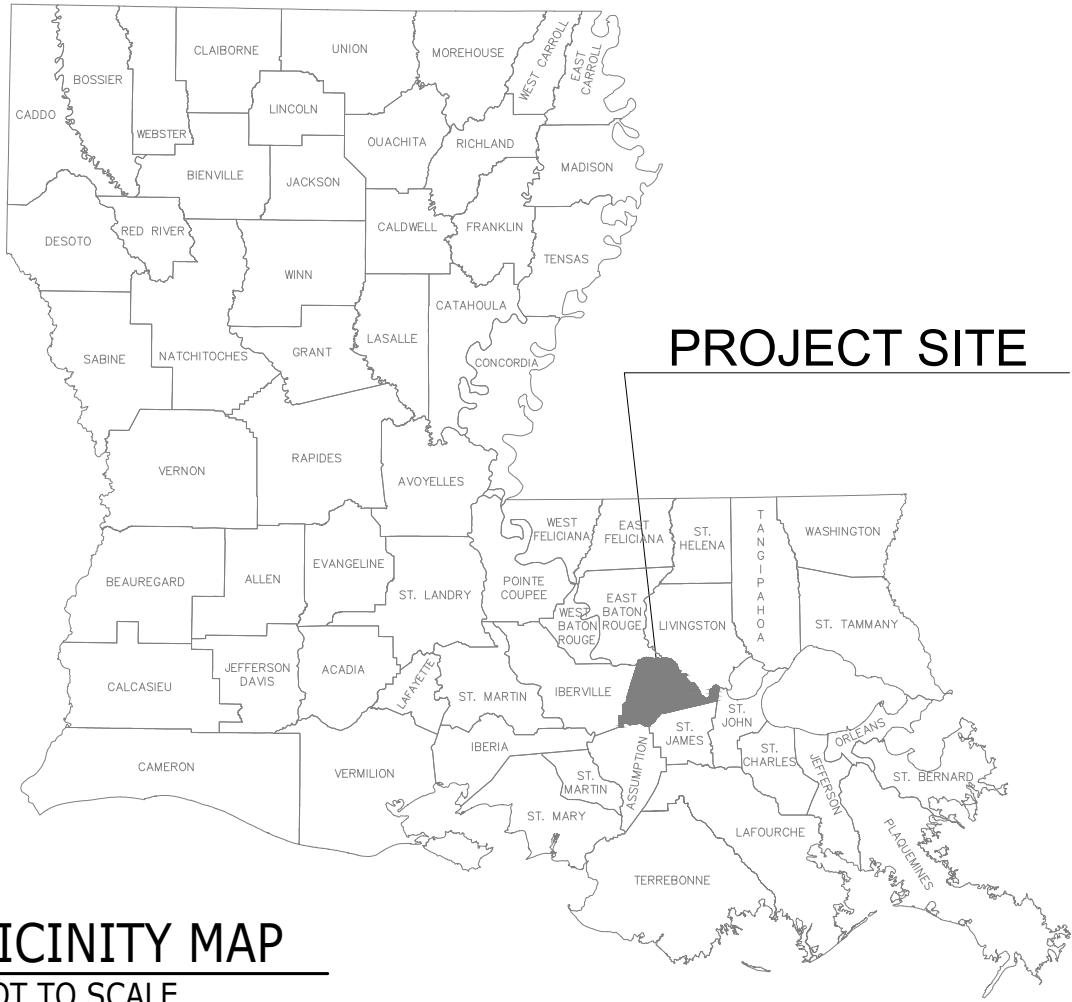


ASCENSION PARISH 5% INITIATIVE GENERATOR PROJECT
PARISH OF ASCENSION
DEPARTMENT OF PUBLIC UTILITIES
HMGP 4263-DR-La-#20
38 Veterans Blvd,
Donaldsonville, LA 70346
FEBRUARY 15, 2023

PARISH PRESIDENT
CLINT COINTMENT

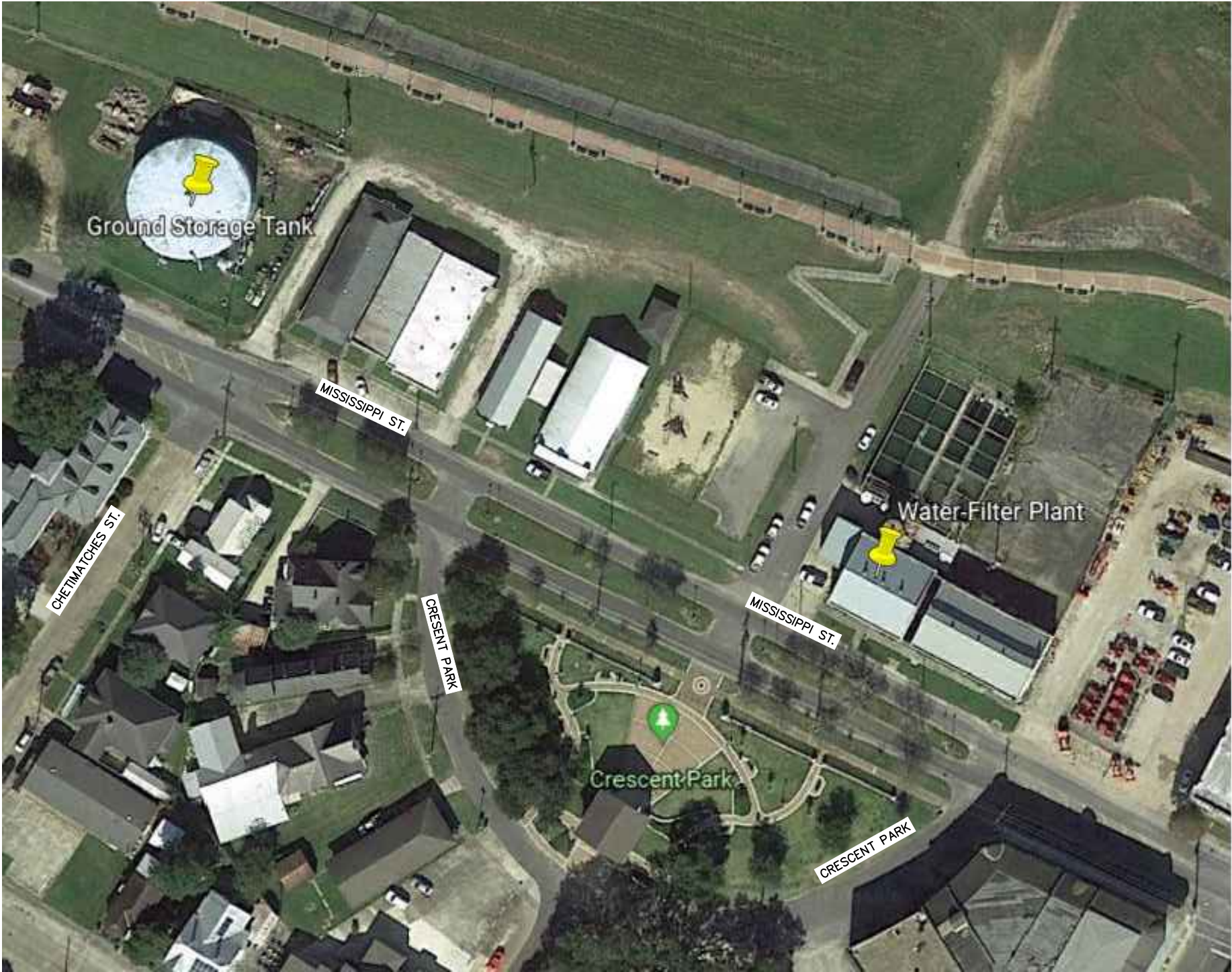
ASCENSION PARISH COUNCIL MEMBERS

- DISTRICT 1 ALVIN "COACH" THOMAS, JR.
- DISTRICT 2 JOEL ROBERT
- DISTRICT 3 TRAVIS TURNER
- DISTRICT 4 COREY ORGERON
- DISTRICT 5 DEMPSEY LAMBERT
- DISTRICT 6 CHASE MELANCON
- DISTRICT 7 AARON LAWLER
- DISTRICT 8 TERI CASSO
- DISTRICT 9 DAL WAGUESPACK
- DISTRICT 10 JOHN CAGNOLATTI
- DISTRICT 11 MICHAEL MASON



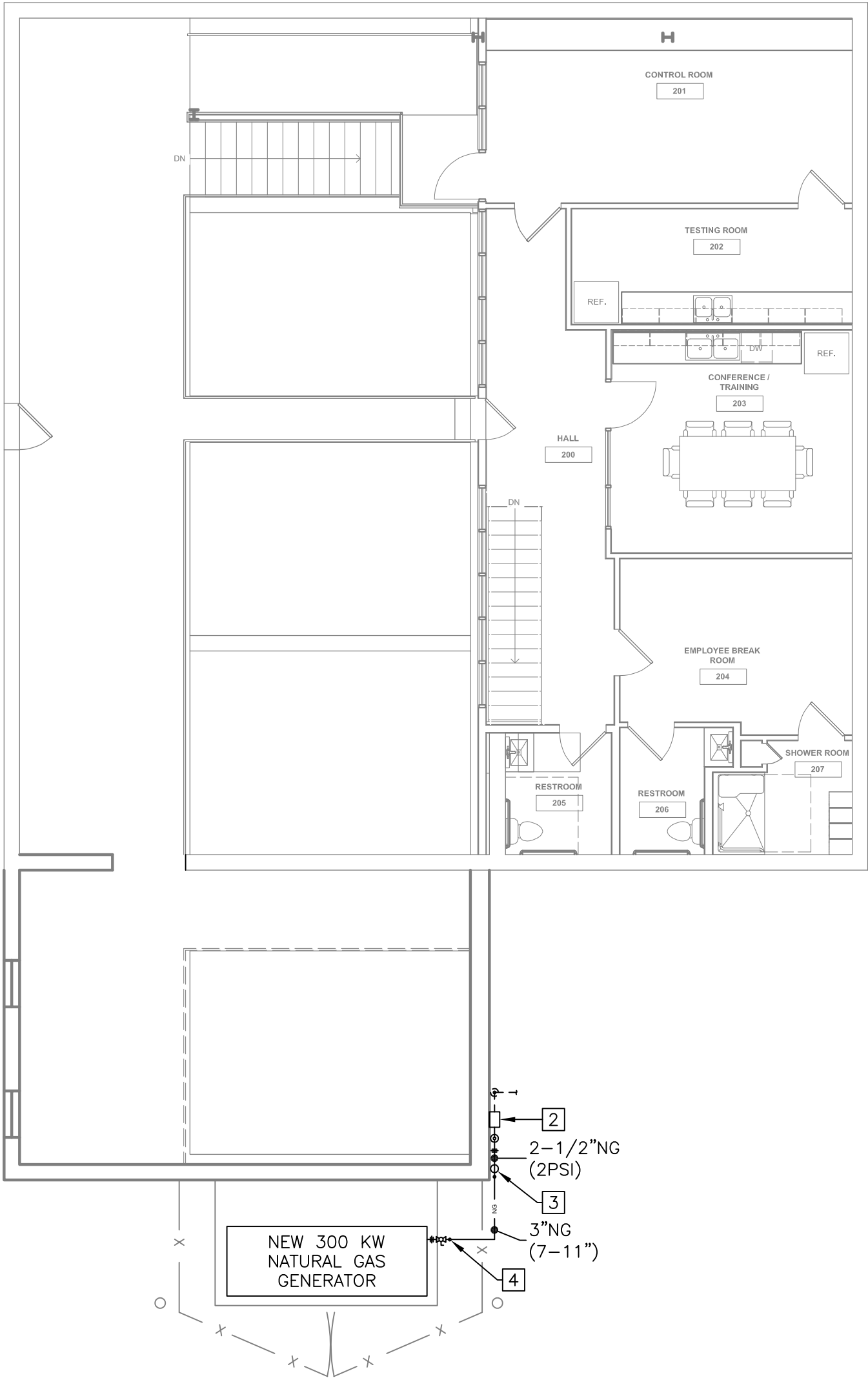
INDEX TO SHEETS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
COVER	COVER SHEET
P-1	WATER FILTER PLANT NATURAL GAS PLAN & DETAILS
E-1	WATER FILTER PLANT ELECTRICAL SITE PLAN & RISER DIAGRAMS
E-2	ABOVE GROUND STORAGE ELECTRICAL SITE PLAN & RISER DIAGRAMS



SHEET NUMBER	COVER
ASCENSION PARISH	PARISH PROJECT
CONTROL SECTION	2/17/23 1 OF 4
SPG MLT	DATE SERIES NO.
DESIGNED CHECKED	BY
DETAILED CHECKED	REVISION OR CHANGE ORDER DESCRIPTION
NO.	DATE
COVER SHEET	

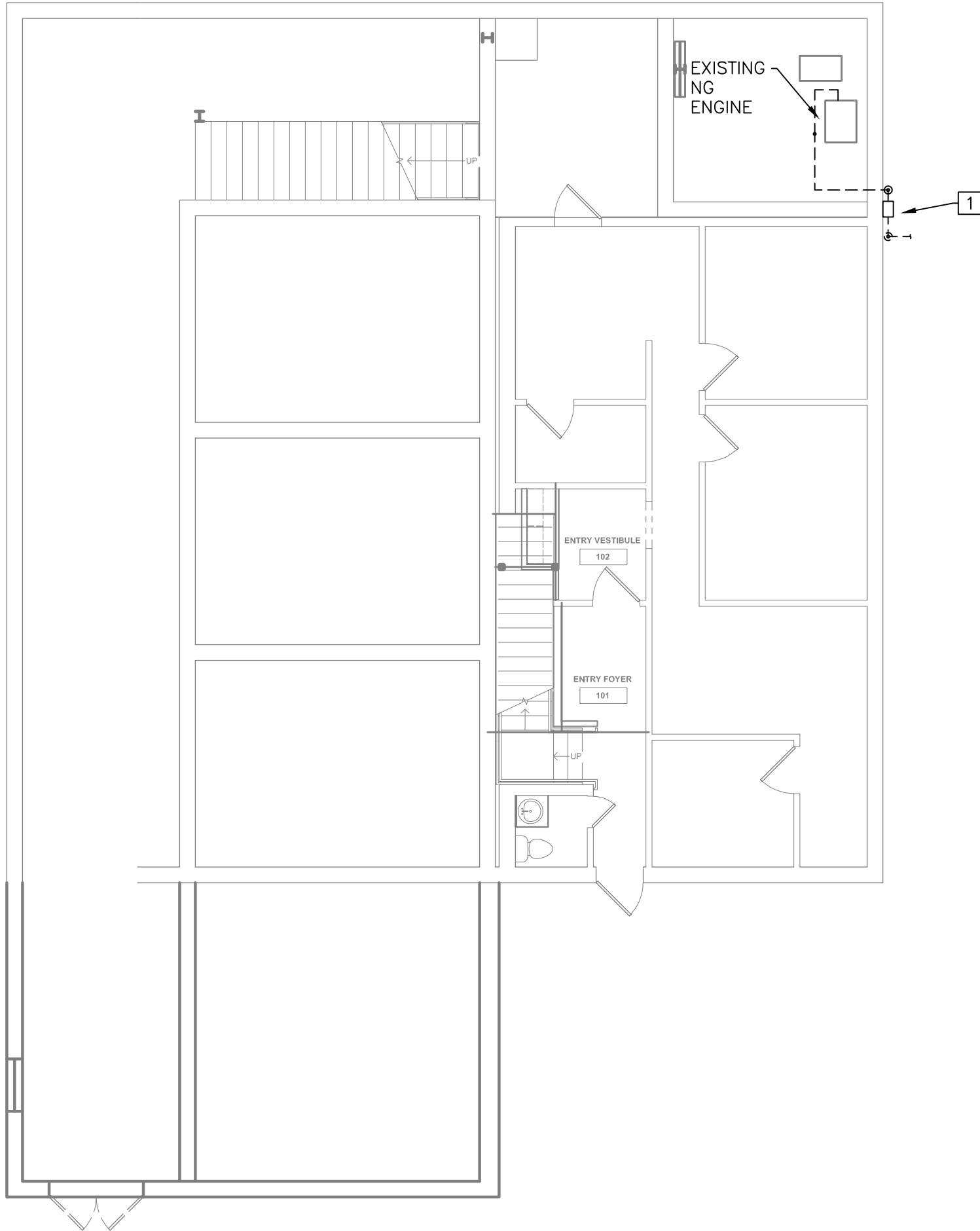
1 FIRST FLOOR - NATURAL GAS
SCALE: 1/8" = 1'-0"



NATURAL GAS GENERAL NOTES:

- NATURAL GAS PIPING & EQUIPMENT SHALL COMPLY WITH REQUIREMENTS OF INTERNATIONAL GAS CODE & INTERNATIONAL PLUMBING CODE (CURRENT ENFORCEABLE EDITIONS).
- ABOVE GRADE, EXTERIOR NATURAL GAS PIPING SHALL BE COVERED WITH 2 COATS OF WATERPROOF ASPHALTIC COATING (OR EQUAL) FOR PIPE CORROSION PREVENTION. PAINT EXPOSED EXTERIOR NATURAL GAS PIPING GRAY.
- UNDERGROUND PLASTIC PIPING SHALL BE INSTALLED WITH SUFFICIENT CLEARANCE FORM ANY HEAT SOURCE. UNDERGROUND NATURAL GAS PIPING SHALL BE INSTALLED TO ALLOW FOR PROPER MAINTENANCE & PROTECTION FROM DAMAGE FROM PROXIMITY TO OTHER STRUCTURES.
- PROVIDE INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR ADJACENT TO UNDERGROUND NONMETALLIC/PLASTIC PIPING. TRACER WIRE SHALL TERMINATE ABOVE GROUND AT EACH EACH OF NONMETALLIC NATURAL GAS PIPING : TRACER WIRE SHALL BE MINIMUM 14 AWG & SUITABLE FOR BURY. PROVIDE BRIGHTLY COLORED, METALLIC CORE, NON-DETERIORATING, MINIMUM 2" WIDE, ID RIBBON TAPE SET 12" ABOVE TOP OF PIPE OR 24" BELOW FINISHED GRADE (SHALLOWER OF THE TWO) FOR ALL NON-CONDUCTIVE PIPE.
- PROVIDE ANODELESS GAS RISER AT WHERE NATURAL GAS PIPING IS ROUTED FROM UNDERGROUND TO ABOVE GRADE.
- COORDINATE EXACT EXACT LOCATION, PRESSURE REQUIREMENTS & NATURAL GAS DEMAND FOR ALL NATURAL EQUIPMENT TO BE SUPPLIED TO PROJECT & EXACT LOCATION. COORDINATE LOCATION OF NATURAL GAS INLET WITH EQUIPMENT & NATURAL GAS PIPING & PIPING SPECIALTIES (VALVES, FLEXIBLE CONNECTION/HOSE, ETC.) WITH EQUIPMENT MANUFACTURER.
- PROVIDE UNIONS ON BOTH SIDES OF NATURAL GAS REGULATOR WITHIN 1 FOOT OF REGULATOR.
- NATURAL GAS REGULATORS (THAT VENT) & METERS SHALL BE INSTALLED WITH THE FOLLOWING MINIMUM DISTANCES:
 - 18" FROM EXTERIOR DOOR OR OPERABLE WINDOW
 - 3' FROM SOURCE OF IGNITION (ELECTRIC METERS, ELECTRIC BOX, AC UNIT, CHILLER, ETC.)
 - SHALL NOT BE INSTALLED BELOW WINDOW
 - 10' FROM ANY MECHANICAL AIR INLETS
- NATURAL GAS REGULATORS & METERS SHALL BE INSTALLED IN A MANNER TO PREVENT DAMAGE BY VEHICLES & MECHANICAL EQUIPMENT. PROVIDE BOLLARDS AROUND NATURAL GAS ASSEMBLY IN AREAS WHERE DAMAGE MAY OCCUR. COORDINATE NATURAL GAS ASSEMBLY LOCATION WITH LOCAL NATURAL GAS COMPANY PROVIDER & PIPE BOLLARD LOCATION (WHERE REQUIRED) WITH ARCHITECT & MECHANICAL ENGINEER PRIOR TO INSTALLATION.

2 SECOND FLOOR - NATURAL GAS
SCALE: 1/8" = 1'-0"



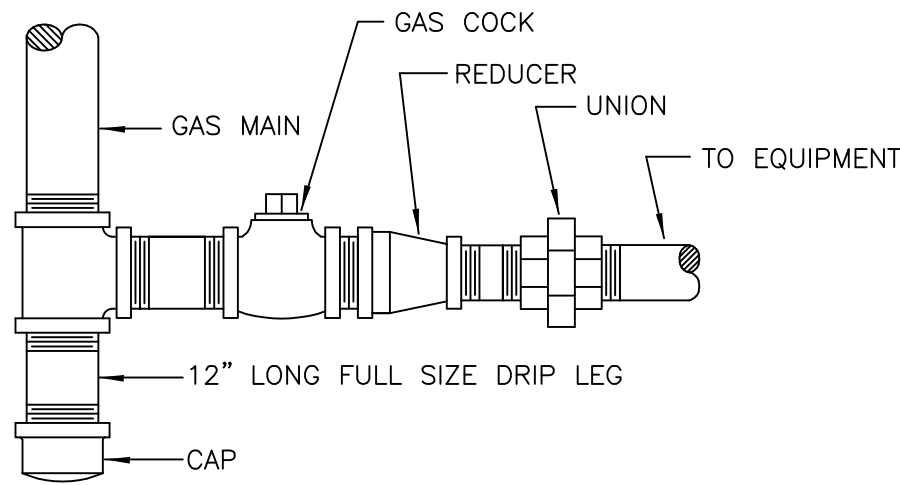
NATURAL GAS SPECIFICATIONS:

- NEW ABOVE GROUND NATURAL GAS PIPING 2PSI & GREATER SHALL BE ASTM A53 STEEL PIPE WITH WROUGHT STEEL FITTINGS & WELDED JOINTS. COAT PIPE & FITTINGS WITH PROTECTIVE COATING & PAINTED YELLOW.
- NEW ABOVE GROUND NATURAL GAS PIPING 14"W.C. & LESS SHALL BE STEEL PIPE WITH MALLEABLE IRON FITTINGS & THREADED JOINTS. COAT PIPE & FITTINGS WITH PROTECTIVE COATING & PAINTED YELLOW.
- UNDERGROUND NATURAL GAS PIPING SHALL BE PE PIPE & FITTINGS JOINED BY HEAT FUSION. SERVICE LINE RISERS WITH TRACER WIRE TERMINATED AT AN ACCESSIBLE LOCATION. INSTALL PIPING MINIMUM 36" BELOW GRADE.
- TEST, INSPECT & PURGE NATURAL GAS ACCORDING TO NFPA 54 & AUTHORITIES HAVING JURISDICTION.

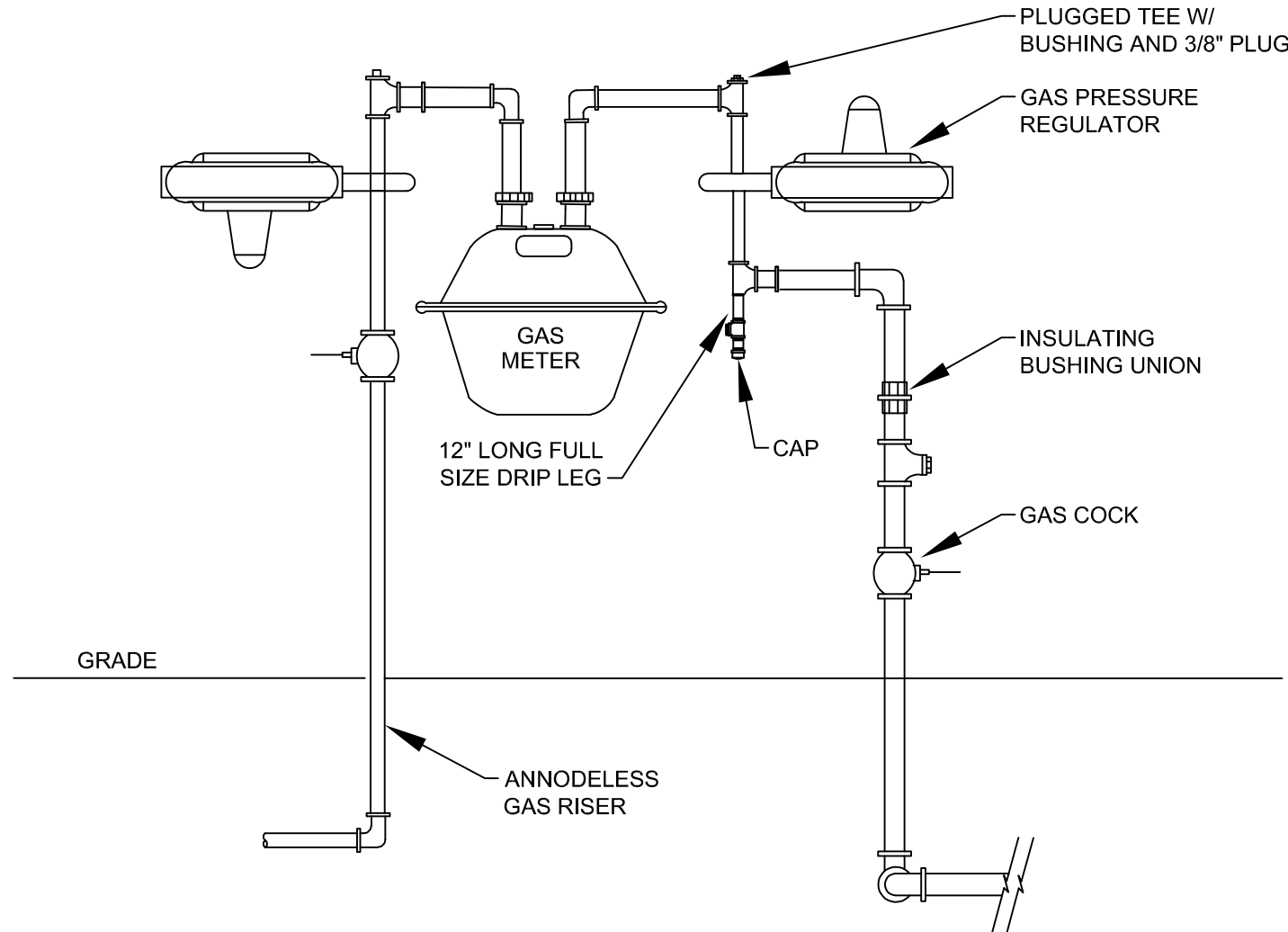
PLUMBING PLAN KEYNOTES: [X]

- EXISTING NATURAL GAS REGULATOR, METER, & PIPING TO EXISTING BACK UP NG ENGINE TO REMAIN.
- EXISTING NATURAL GAS METER TO REMAIN AND BE REUSED. PROVIDE NEW REGULATOR AS REQUIRED FROM METER SIZED DOWN FROM CITY PRESSURE TO 2 PSI, SIZED TO HANDLE 3,120 CFH. COORDINATE WITH NATURAL GAS UTILITY COMPANY TO VERIFY EXISTING NG SUPPLY LINE SIZE IS SUFFICIENT FOR NEW NG LOAD. COORDINATE WITH NG UTILITY COMPANY FOR NEW NG SUPPLY LINE IF EXISTING NG PIPE SIZE IS NOT OFF SUFFICIENT SIZE FOR NEW NG DEMAND.
- NG REGULATOR SIZED DOWN FROM 2 PSI TO OPERATING PRESSURE OF NEW NG GENERATOR (7-11"). SIZED TO HANDLE 3,120 CFH. ROUTE NG PIPING BELOW GRADE FROM REGULATOR TO GENERATOR. NG REGULATOR SHALL BE MINIMUM 10' FROM GENERATOR CONNECTION. VERIFY EXACT LOCATION REQUIREMENTS OF NG REGULATOR WITH NEW GENERATOR MANUFACTURER'S RECOMMENDED INSTALLATION INSTRUCTIONS.
- NG PIPING UP FROM BELOW GRADE TO NG GENERATOR. PROVIDE ACCESSIBLE SHUTOFF VALVE AND DRIP LEG. COORDINATE EXACT LOCATION OF NG CONNECTION TO GENERATOR IN FIELD.

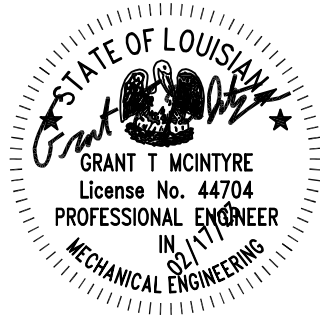
NOTES:
1. PROVIDE NATURAL GAS DRIP LEG
UPSTREAM OF CONNECTION TO EQUIPMENT.




3 NATURAL GAS DRIP LEG
SCALE: NTS



4 NATURAL GAS SERVICE REGULATOR & METER
SCALE: NTS



WATER FILTER PLANT NATURAL GAS PLAN & DETAILS																				SHEET NUMBER																																																	
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																				NO.										DATE										BY										REVISION OR CHANGE ORDER DESCRIPTION																			

EXISTING
PANEL "B"

TYPE:BOLT-ON BREAKER PANELBOARD MOUNTING:SURFACE
SERVICE:120/208 VOLT, 3Ø, 4W AIC:10,000
MAIN:200 AMP MCB REMARKS:GROUND BUS

bkr. no.	trip amp	bkr. pole	wire size	cd	service
1,3,5	30	3	10		EXIST. INTERNAL SPD
2	20	1	12	3/4"	GENERATOR BATTERY CHARGER
4,6	20	2	12	3/4"	GENERATOR JACKET HEATER
7-42	20	1			PROVISIONS

ROUTE GENERATOR CONTROL WIRING ALONG BOTTOM OF PLATFORM AND SECOND FLOOR TO EXIST. ATS; ROUTE ANNUNCIATOR WIRING ALONG BOTTOM OF PLATFORM AND SECOND FLOOR TO LOCATION ON FIRST FLOOR; PROVIDE SUPPORTS EVERY 10'-0" PER NEC REQUIREMENTS

EXIST. 75 KVA XFMR FOR EXIST. PANEL "B"
EXIST. MCC
EXIST. ATS

ROUTE CIRCUITS FOR GENERATOR BATTERY CHARGER AND JACKET HEATER ALONG BOTTOM OF SECOND FLOOR TO EXIST. PANEL "B"; PROVIDE SUPPORTS EVERY 10'-0" PER NEC REQUIREMENTS

THREE (3) 3"C, 4#300 MCM THWN & 1#3/0 GND. EA.; ROUTE ALONG BOTTOM SECOND FLOOR TO EXIST. ATS; PROVIDE SUPPORTS EVERY 20'-0" PER NEC REQUIREMENTS

1 SECOND FLOOR - ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

NEW CONTRACTOR FURNISHED AND INSTALLED CHAIN LINK FENCE; FENCE SHALL BE A MINIMUM OF 3'-0" FROM THE ENDS OF NEW GENERATOR; GATE SHALL BE SUFFICIENTLY SIZED FOR GENERATOR ACCESS FOR FUTURE REPAIRS OR REPLACEMENT

NEW OWNER FURNISHED, CONTRACTOR INSTALLED 300 KW NATURAL GAS GENERATOR; COORDINATE LOCATION WITH THE OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION; MAINTAIN 3'-0" MINIMUM CLEARANCE BETWEEN GENERATOR AND BUILDING

NEW GENERATOR ANNUNCIATOR PANEL; COORDINATE LOCATION WITH THE OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN

SEE SECOND FLOOR PLAN FOR CONDUIT AND WIRE INFORMATION

NEW CONTRACTOR INSTALLED CONCRETE PAD; PAD SHALL BE THE SAME HEIGHT AS THE EXPOSED BUILDING SLAB; FIELD VERIFY HEIGHT PRIOR TO BIDDING; SEE SHEET E-2 FOR PAD DETAIL

NEW BOLLARD FURNISHED AND INSTALLED BY THE CONTRACTOR; BOLLARD SHALL BE PAINTED YELLOW (TYP. FOR 2)

2 FIRST FLOOR - ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

TYPICAL PANELBOARD PLAQUE

(INDICATE PANEL DESIGNATION)

---/--- VOLTS --- PHASE --- WIRE
--- AMPS MAIN ---
FED FROM

(INDICATE FEEDER ORIGINATION I.D.)
(PANEL AND CIRCUIT NO.)

SEE SPECIFICATIONS FOR MATERIALS, COLORS SIZE LETTERING, ETC.

TYPICAL DISCONNECT PLAQUE

(INDICATE EQUIPMENT DESCRIPTION)

FUSED AT --- AMPERES
FED FROM

(INDICATE FEEDER ORIGINATION I.D.)
(PANEL AND CIRCUIT NO.)

ATTACH PLAQUES USING INDUSTRIAL GRADE DOUBLE FACE ADHESIVE.

3 EQUIPMENT SIGNAGE DETAIL
NOT TO SCALE

TOP OF BOX SHALL BE FLUSH WITH FINISHED GRADE/SLAB

EXOTHERMIC WELDED TERMINATION (REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS)

ERICO NO. T416B INSPECTION WELL WITH BOLT-DOWN COVER

FINISHED GRADE/SLAB

CONTINUE TO ANOTHER GROUND ROD OR TO SERVICE NEUTRAL BUS

CONTINUE TO ANOTHER GROUND ROD OR TO SERVICE NEUTRAL BUS

GROUNDING CONDUCTOR. REFER TO RISER DIAGRAM FOR SIZE.

10"x3/4" NOM COPPER GROUND ROD

*REFER TO ELECTRICAL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS
NOTE:
SUBMIT DIGITAL PHOTOS OF ALL GROUNDING TERMINATIONS

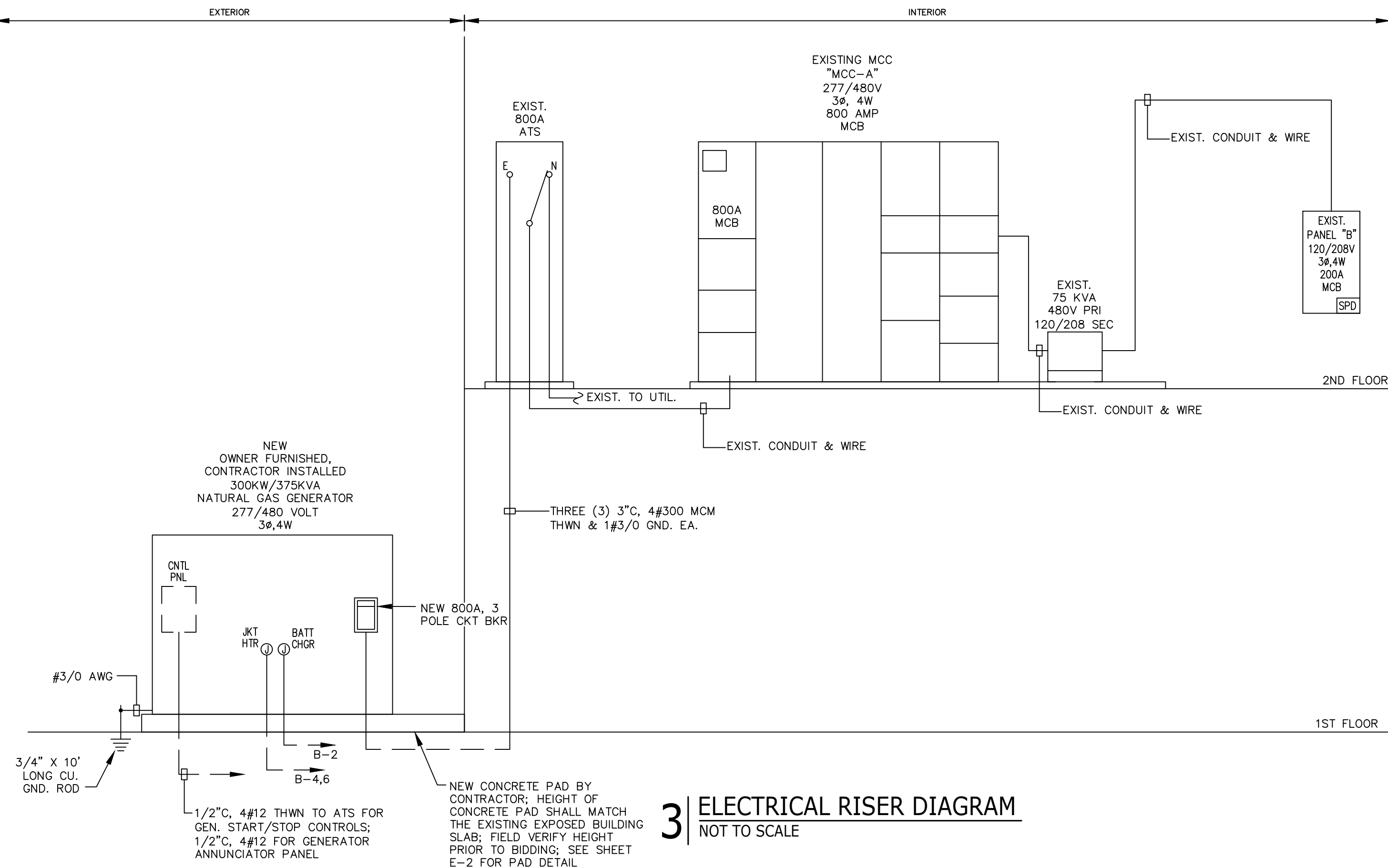
4 GROUND ROD INSTALLATION DETAIL
NOT TO SCALE

SYMBOL SCHEDULE

	POWER PANEL
	EXPOSED CONDUIT RUN
	UNDERGROUND CONDUIT RUN
	JUNCTION BOX

ELECTRICAL GENERAL NOTES

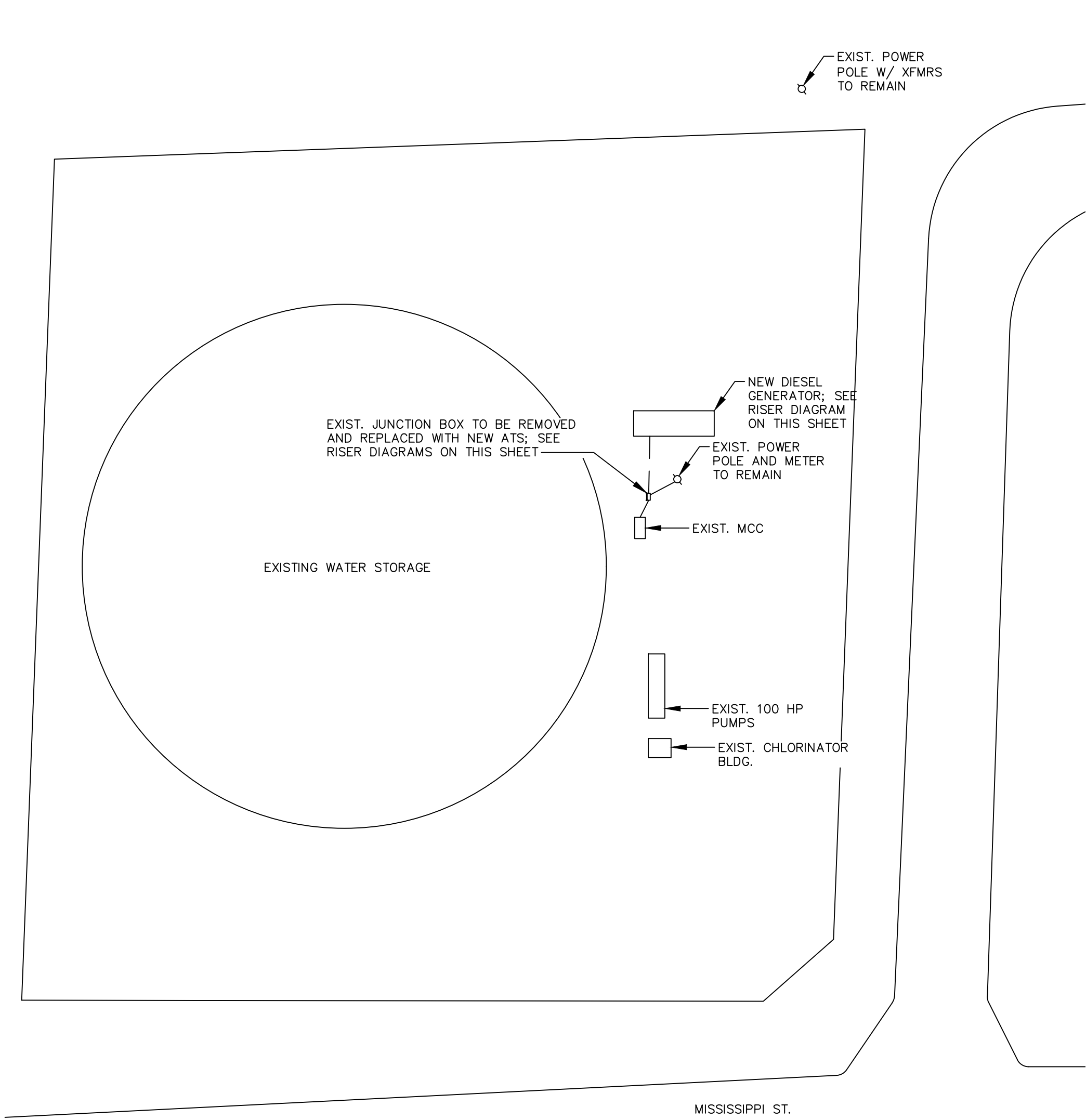
- ALL ELECTRICAL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE. ALL WORK SHOWN IS NEW UNLESS NOTED OTHERWISE.
- THE CONDUIT SYSTEM, ALL ELECTRICAL EQUIPMENT, ALL STEEL STRUCTURES, MOTOR FRAMES, ETC. SHALL BE CONNECTED TO THE GROUNDING SYSTEM PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- ALL EQUIPMENT LOCATIONS SHALL BE VERIFIED IN THE FIELD WITH MECHANICAL TRADES, CONDUIT ROUTING AND EQUIPMENT LOCATIONS SHOWN ARE DIAGRAMMATIC ONLY. THE EXACT LOCATION OF ALL EQUIPMENT AND ROUTING OF CABLES SHALL BE COORDINATED WITH & APPROVED BY THE ENGINEER DURING CONSTRUCTION.
- LOCATIONS OF CONDUITS, BOXES, FITTINGS, ETC., ARE DIAGRAMMATIC. IT SHALL BE THE ELECTRICAL CONTRACTORS RESPONSIBILITY TO VERIFY ALL SIZES AND LOCATIONS. REVIEW ALL MECHANICAL SHOP DRAWINGS AND COORDINATE WITH THE MECHANICAL CONTRACTOR, OWNER, AND ENGINEER TO INSURE THE TIMELY DELIVERY AND PROPER INSTALLATION OF ALL ELECTRICAL EQUIPMENT. (I.E. CONTROL PANELS, AREA LIGHTING, ETC.)
- BEFORE INSTALLATION, THE ELECTRICAL CONTRACTOR SHALL SUBMIT DETAILED LAYOUT DRAWINGS TO THE ENGINEER FOR REVIEW COVERING PROPOSED LOCATIONS, MOUNTING, AND ROUTING FOR ALL CONDUITS, SERVICES, FITTINGS, GROUND RODS, AREA LIGHTING, CONTROL PANELS, SUPPORTS, ETC.
- ENCLOSURE, JUNCTION BOXES, RECEPTACLES AND ALL OTHER ELECTRICAL EQUIPMENT USED OUTDOOR SHALL BE OF NEMA 4X (STAINLESS STEEL) CONSTRUCTION UNLESS OTHERWISE NOTED.
- MINIMUM CONDUIT SIZE IS 3/4" UNLESS NOTED OTHERWISE. ALL EXPOSED CONDUIT SHALL BE RIGID STEEL AND ALL DUCT BANK CONDUIT SHALL BE SCHEDULE 40PVC UNLESS NOTED OTHERWISE.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE MECHANICAL CONTRACTOR AND CAREFULLY REVIEW THE MECHANICAL PACKAGES PROPOSED TO BE SUPPLIED. IT SHALL BE THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL WIRE AND CONDUIT NEEDED FOR ELECTRICAL APPURTENANCES, ASSOCIATED WITH MECHANICAL PACKAGES, ARE PROVIDED EVEN IF NOT SPECIFICALLY CALLED FOR IN THE PLANS AND SPECIFICATIONS.
- THERE SHALL BE WARNING LABELS LOCATED ON THE FRONT OF EACH ELECTRICAL ENCLOSURE. SEE SIGNAGE DETAIL ON THIS SHEET.
- WARNING TAPE SHALL BE INSTALLED 12 TO 18 INCHES BELOW GRADE OVER ALL CONDUITS.
- FOR SERVICE ENTRANCE CONDUITS, UTILIZE LONG RADIUS (36") CONDUIT BENDS.
- ALL CONDUIT RISERS FROM UNDERGROUND SHALL HAVE RIGID METAL ELLS AND RISERS.
- PRIOR TO CONSTRUCTION, CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. AVOID DISTURBANCE OF EXISTING UTILITIES NOT INCLUDED IN THIS PROJECT.
- CONTRACTOR SHALL COORDINATE WITH ICE CONTROLS FOR CONNECTION OF NEW EMERGENCY SYSTEM EQUIPMENT TO THE EXISTING SCADA SYSTEM.
- ALL DEMOLISHED EQUIPMENT SHALL BE TURNED OVER TO THE OWNER'S DESIGNATED REPRESENTATIVE FOR RIGHT OF FIRST REFUSAL. CONTRACTOR SHALL DISPOSE OF ANY EQUIPMENT REFUSED BY THE OWNER'S REPRESENTATIVE.
- FIELD VERIFY EXISTING CONDITIONS PRIOR TO BIDDING.
- CONTRACTOR SHALL COORDINATE ANY PLANNED SHUT DOWNS WITH THE OWNER'S DESIGNATED REPRESENTATIVE A MINIMUM OF ONE (1) CALENDAR WEEK PRIOR TO PROPOSED DATE OF SHUT DOWN.
- CONTRACTOR SHALL COORDINATE ANY SCHEDULED WEEKEND WORK WITH THE OWNER'S DESIGNATED REPRESENTATIVE.



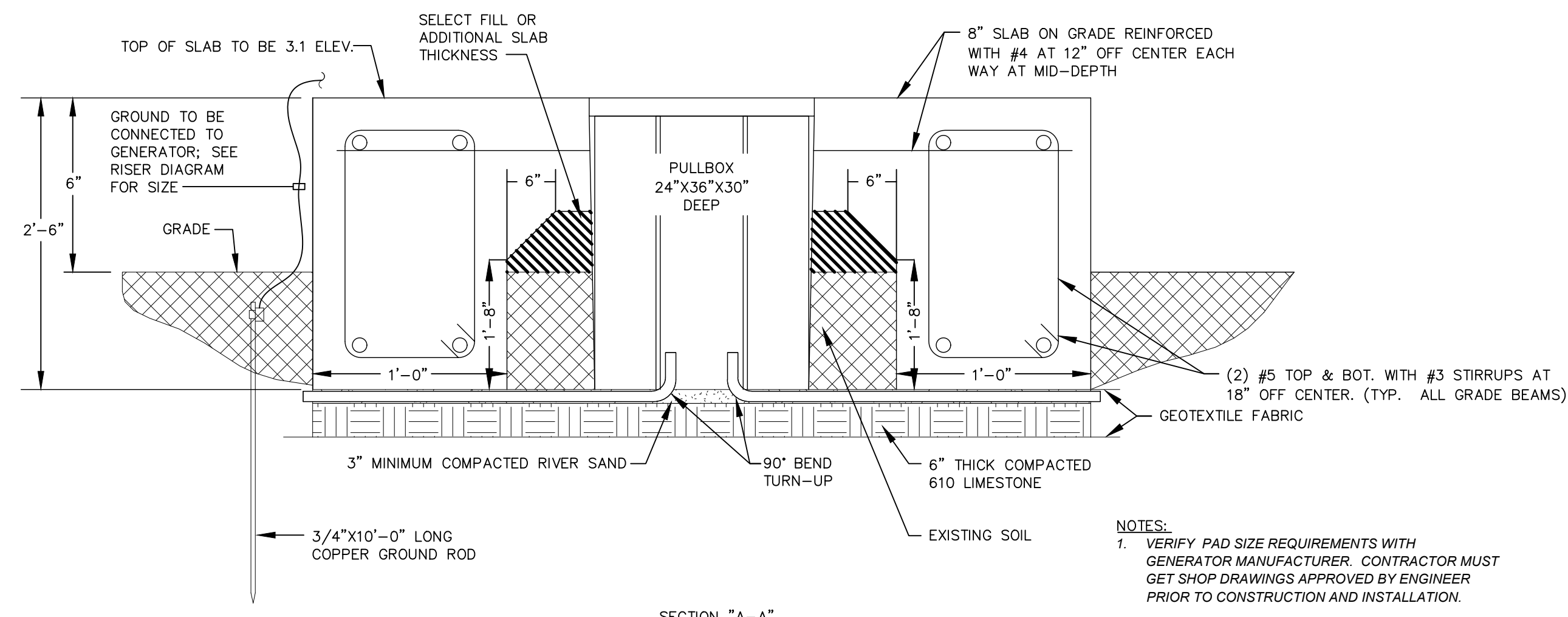
3 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

STATE OF LOUISIANA
MICHAEL D. BERRY
REGISTERED PROFESSIONAL ENGINEER
NO. 0217/2023
ELECTRICAL

PARISH
ENGINEERING
1600 Innovation Park Drive
Baton Rouge, LA 70802
(225) 332-0222
parisheng.com | 822-2905

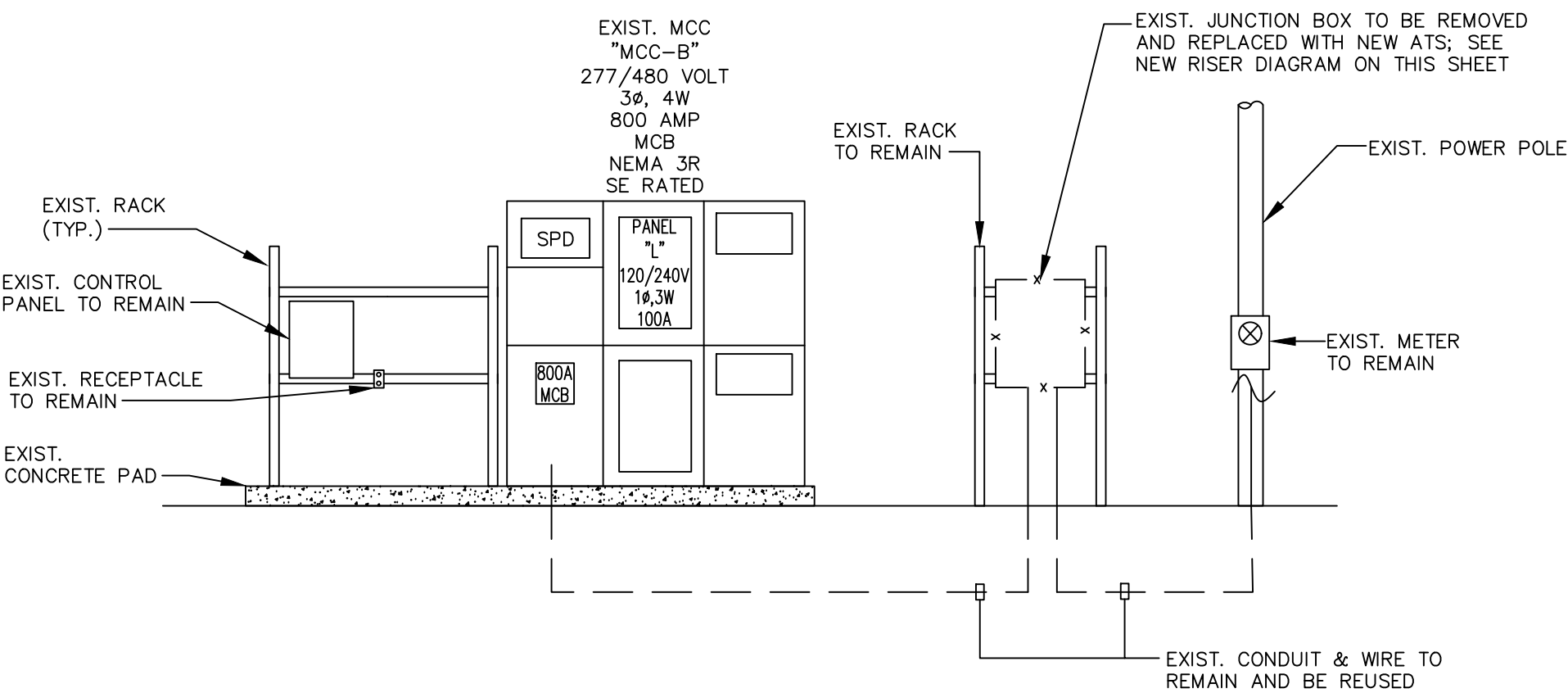


1 ELECTRICAL SITE PLAN
SCALE: 1/16" = 1'-0"

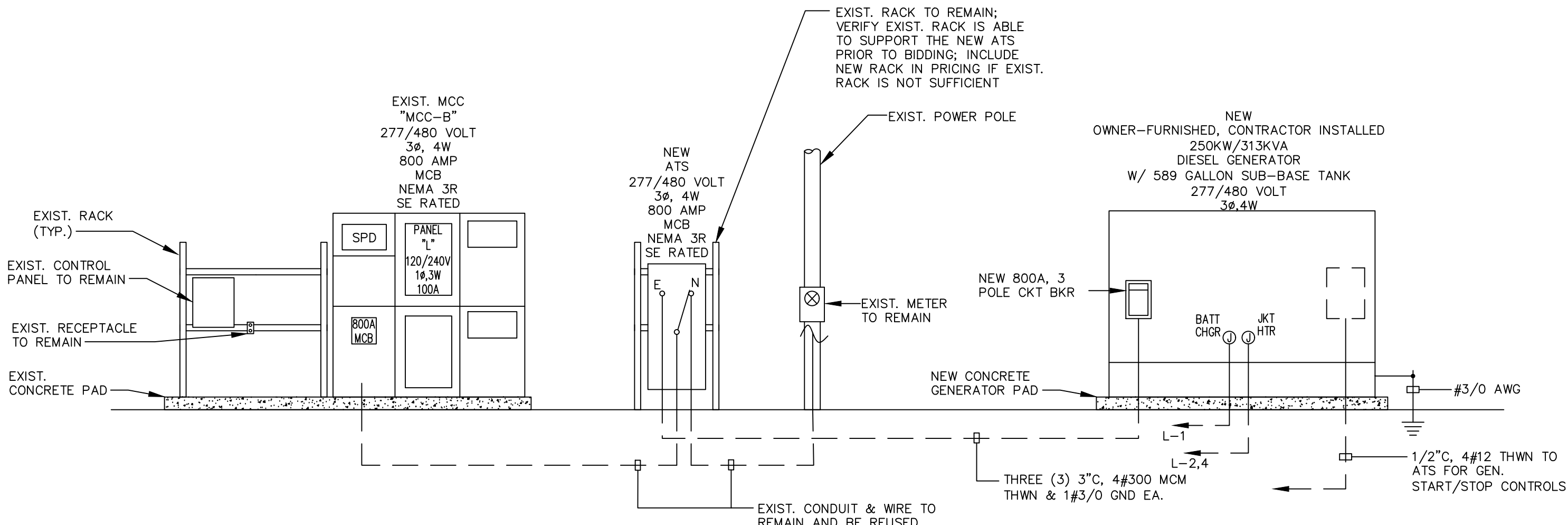


4 GENERATOR PAD DETAIL
NOT TO SCALE

NOTES:
1. VERIFY PAD SIZE REQUIREMENTS WITH GENERATOR MANUFACTURER. CONTRACTOR MUST GET SHOP DRAWINGS APPROVED BY ENGINEER PRIOR TO CONSTRUCTION AND INSTALLATION.

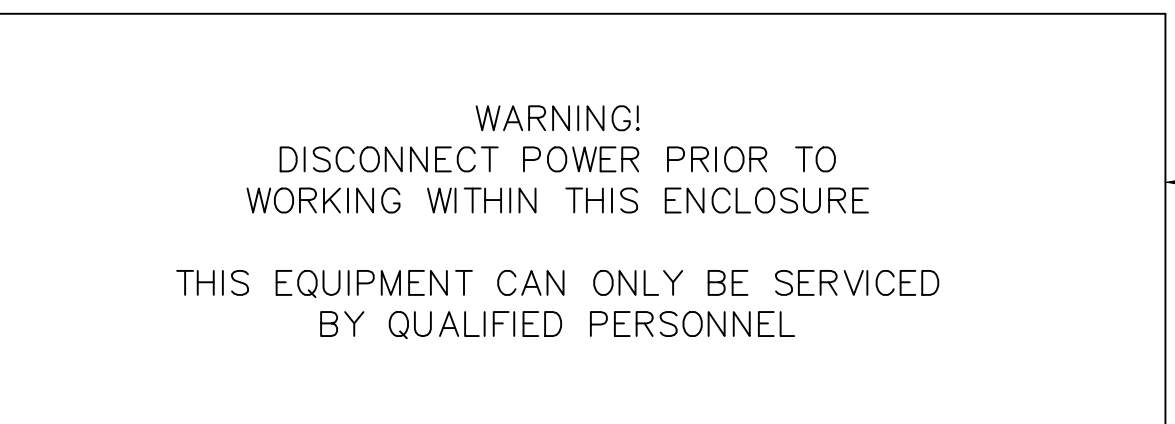


2 ELECTRICAL DEMOLITION RISER DIAGRAM
NOT TO SCALE



3 ELECTRICAL RISER DIAGRAM
NOT TO SCALE

SIGNAGE:
1) THE BELOW SIGN SHALL BE MOUNTED ON THE FRONT OF ALL ELECTRICAL ENCLOSURES.



- NOTES:
- NAMEPLATES TO BE FABRICATED FROM LAMACOID PLASTIC WITH BLACK OUTER LAMINATION AND A WHITE INNER LAMINATION.
 - LETTERING SHALL BE 1/4" HIGH CAPS, EXCEPT AS NOTED ON SCHEDULE. ENGRAVE LETTERS TO EXPOSE WHITE LAMINATION.
 - ATTACH NAMEPLATES ON EQUIPMENT IN A PROMINENT PLACE. USE TWO (2) SMALL SHEET METAL SCREWS FOR SHEET METAL ENCLOSURES. USE CONTACT BOND CEMENT ON ALL OTHER TYPE ENCLOSURES. ASSURE THAT SURFACE IS CLEAN AND FREE OF PAINT PRIOR TO ATTACHING NAMEPLATES.

5 SIGNAGE DETAIL
NOT TO SCALE

