OWNER AUTHORIZATION FOR INDIVIDUAL

, ASHISH SANGANI
by my signature below, hereby authorize Coakley Road EV Charging 1, LLC to
(name of applicant)
submit Planning Board/Zoning Board of Adjustment/Planning Division applications and applicable materials for presentation to City of Portsmouth Planning Department/Portsmouth Zoning Board of Adjustment/Portsmouth Planning Board for the proposed development at:
505 US-1 Portsmouth, NH
(address of site)
(Signature)
4/9/25
(Date)

PERMIT SET

PORT INN AND SUITES 505 US-1, PORTSMOUTH, NH 03801 ELECTRIC VEHICLE CHARGING STATION

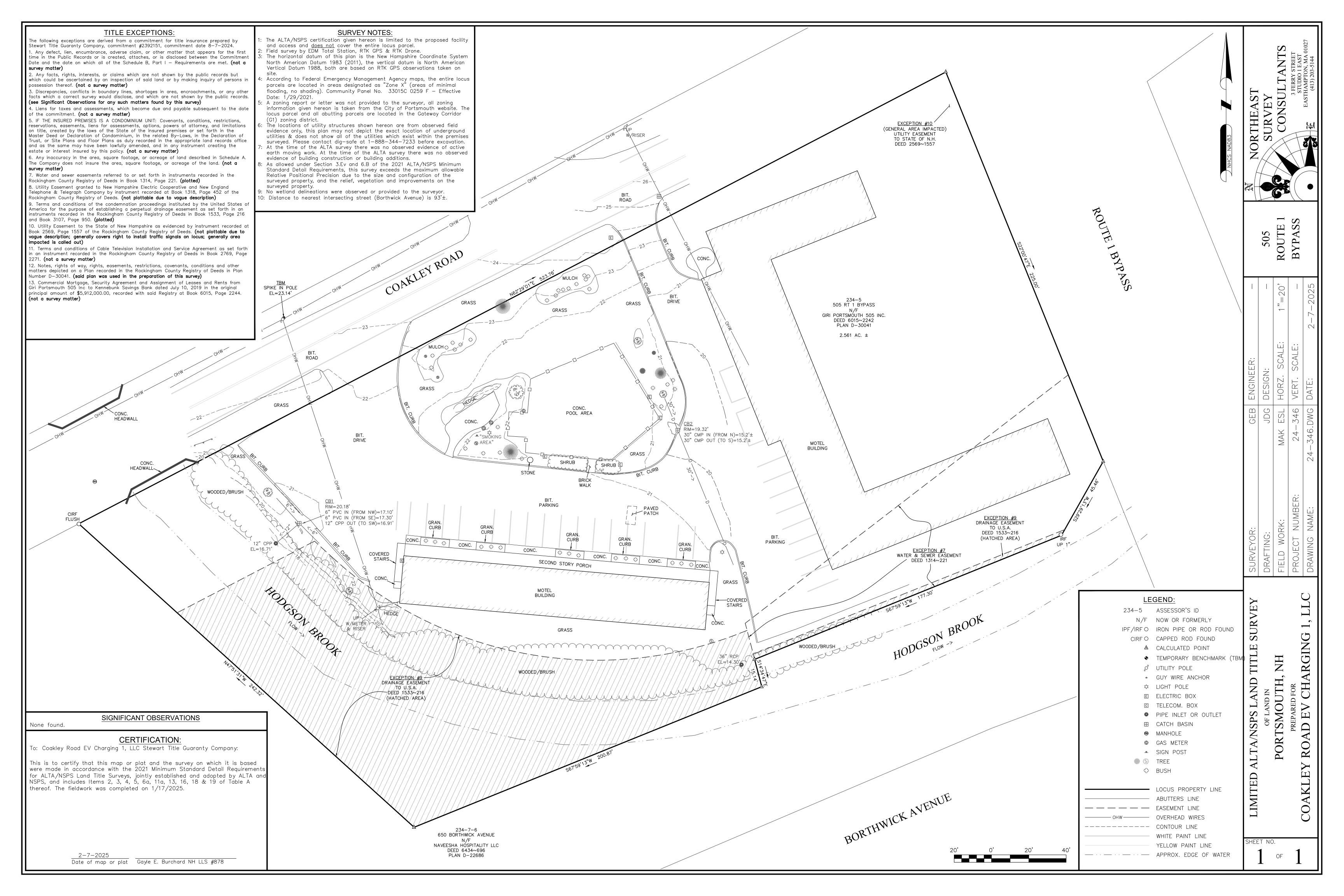


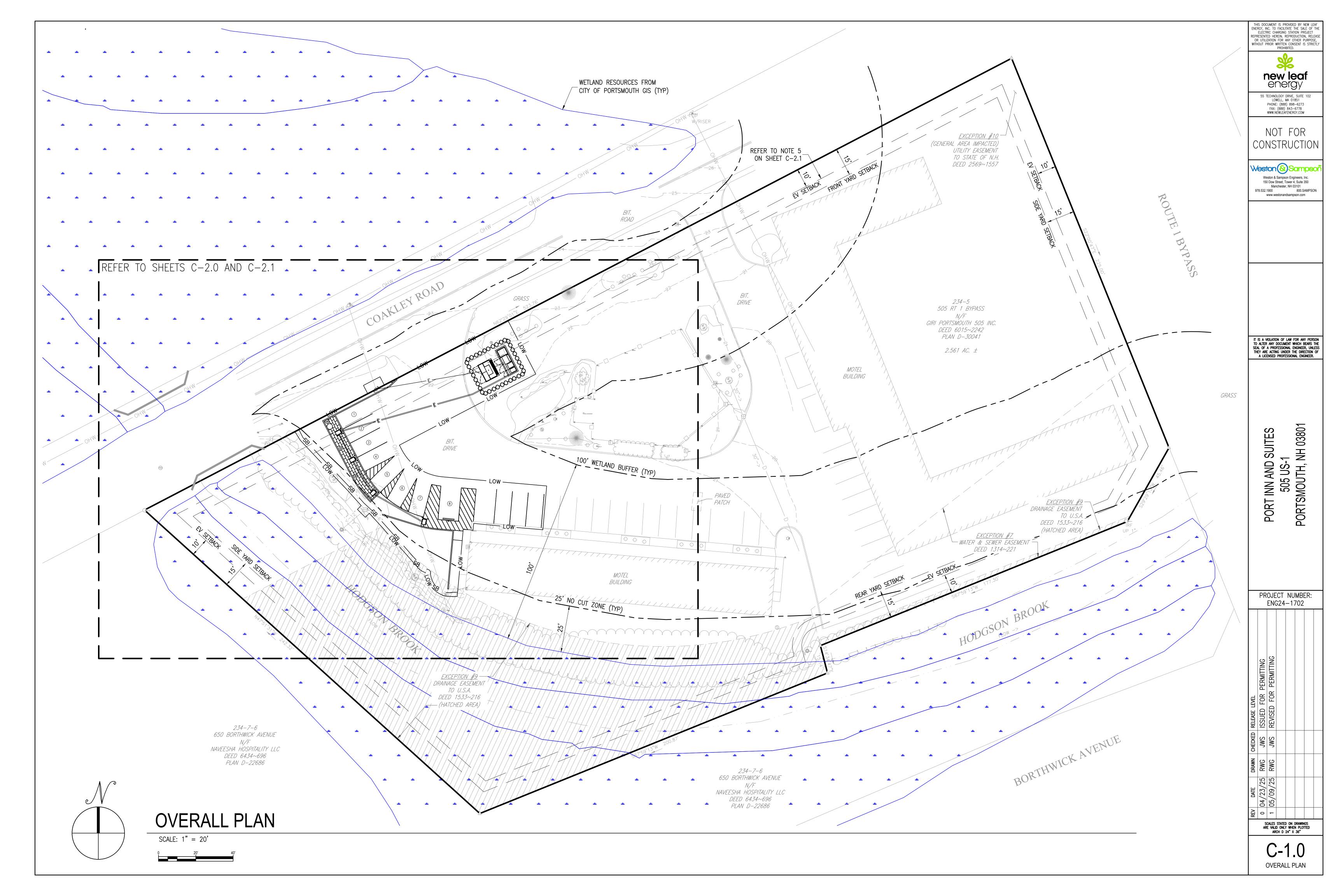
55 TECHNOLOGY DRIVE, SUITE 102 LOWELL, MA 01851 PHONE: (888) 898–6273 FAX: (888) 843–6778 WWW.NEWLEAFENERGY.COM

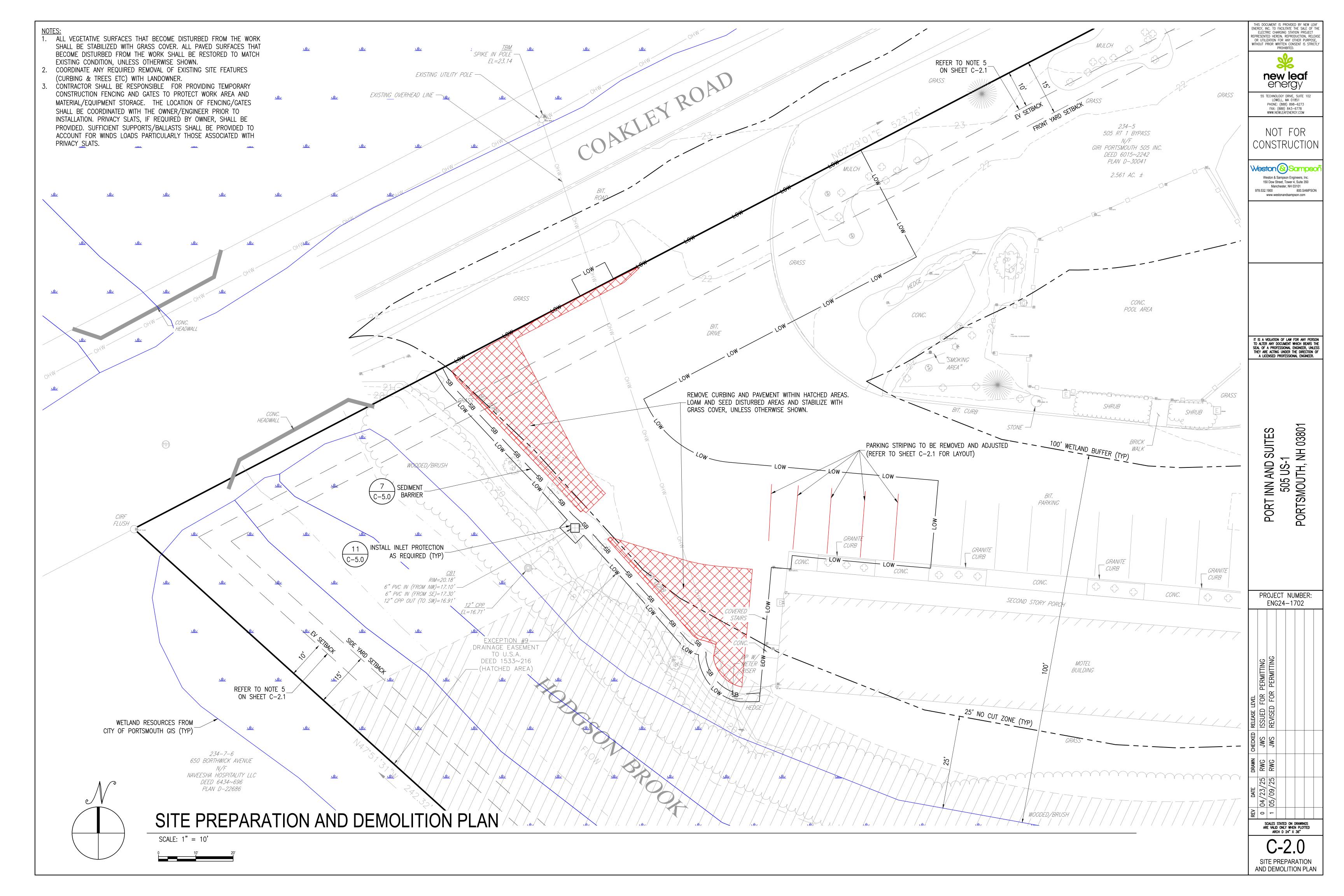
Weston & Sampson Engineers, Inc.
150 Dow Street, Tower 4, Suite 350
Manchester, NH 03101
978.532.1900
800.SAMPSON

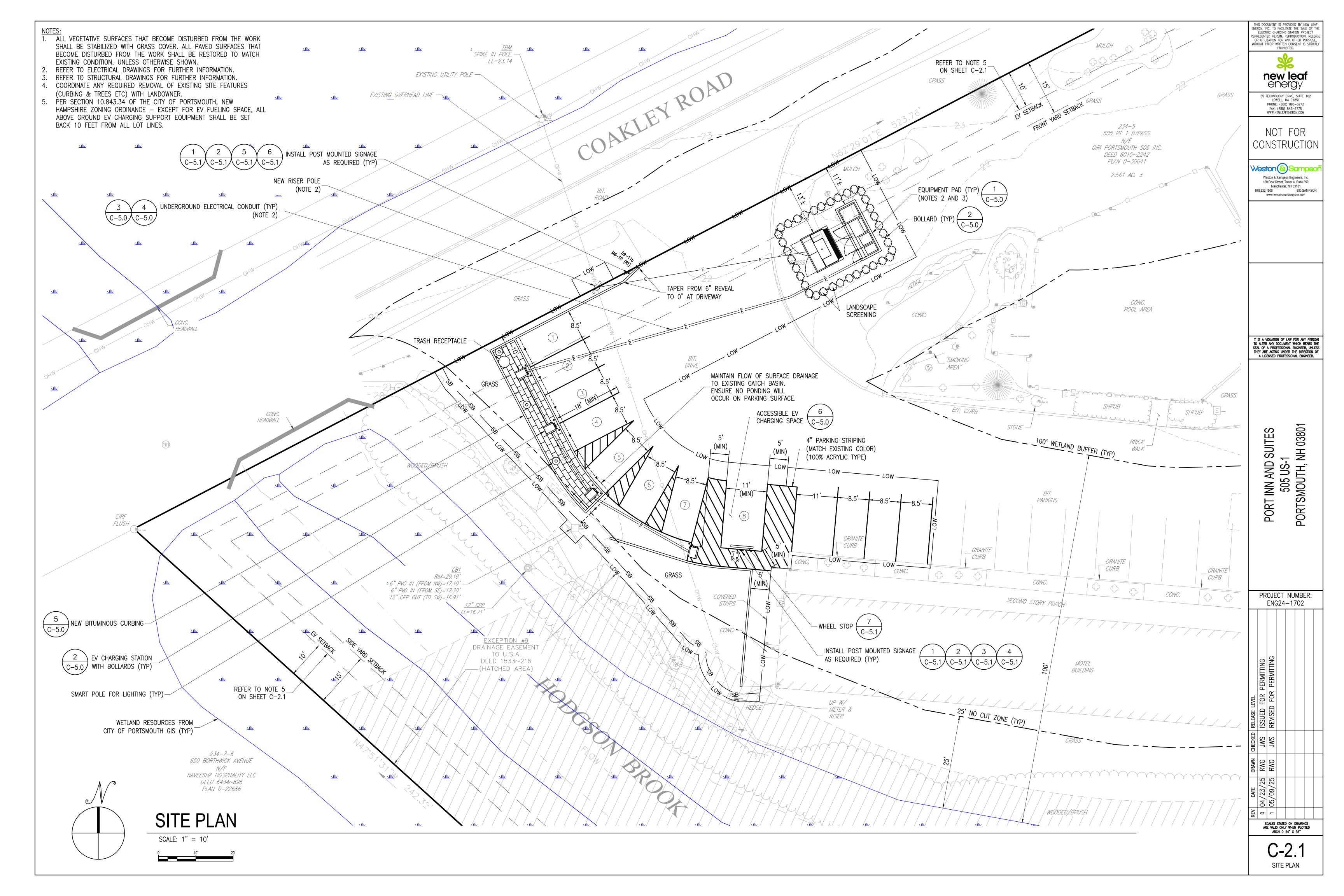
CONSTRUCTION

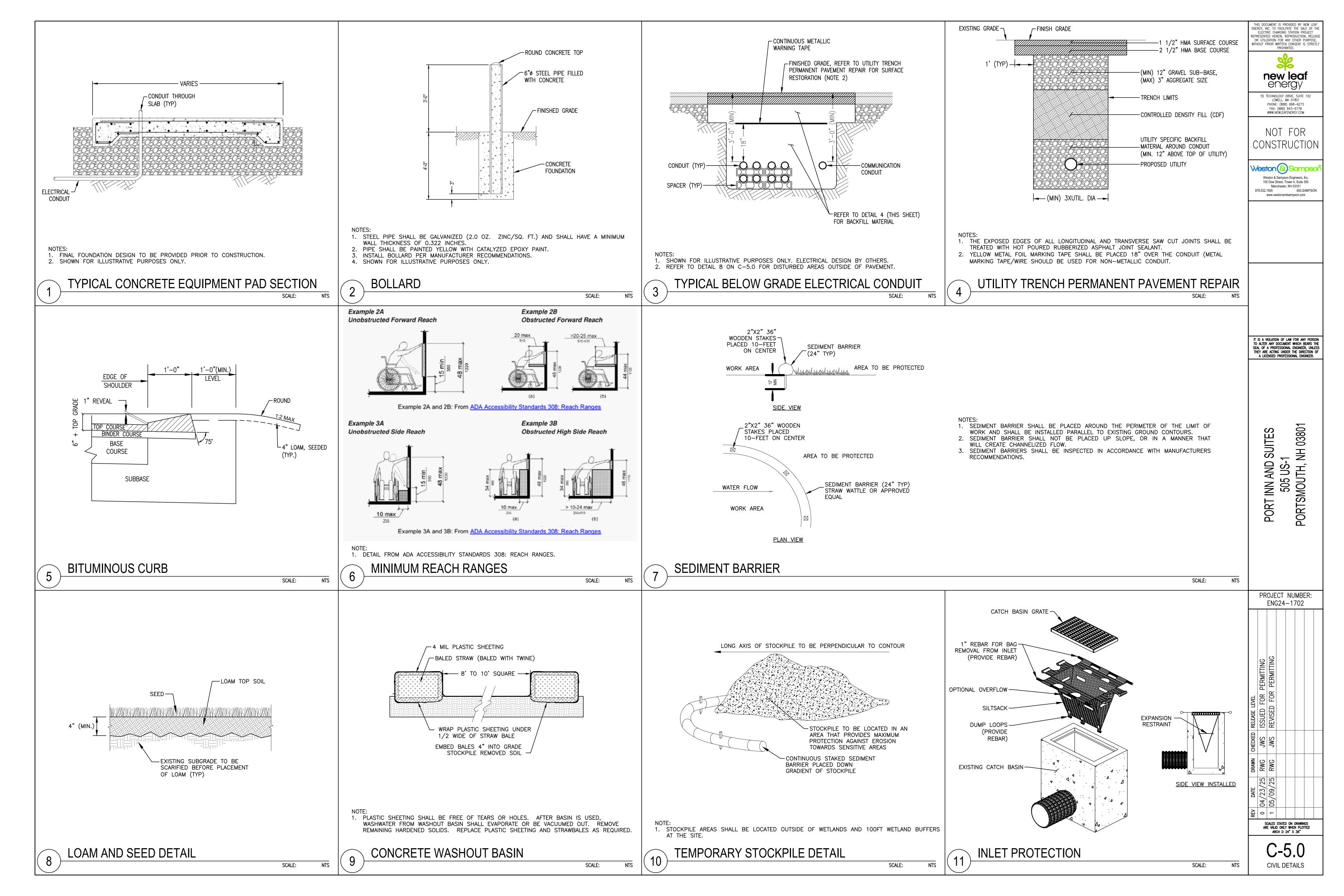
	ELECTRIC VEHICLE	CHAROUNG STATION			Manchester, NH 03101 978.532.1900 800.SAMPSON www.westonandsampson.com
GENERAL NOTES	PROJECT SCOPE	LOCATION MAP	DRAW	ING LIST	
1. AS CONTAINED HEREIN, "CONTRACTOR" IS ASSUMED TO BE THE EPC PROVIDER HIRED BY THE	THIS PROJECT CONSISTS OF THE INSTALLATION OF AN ELECTRIC VEHICLE CHARGING STATION PER		SHEET NUMBER	SHEET TITLE	
SYSTEM/PROJECT OWNER.	THE SYSTEM DESCRIPTION, BELOW. THE CHARGERS WILL BE INSTALLED AS SHOWN IN THE SITE PLANS ATTACHED. THE ELECTRIC VEHICLE CHARGING STATION WILL BE INTERCONNECTED WITH ITS		T-1.0	TITLE PAGE	
2. WHEN THERE IS A CONFLICT BETWEEN THESE GENERAL NOTES AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.	OWN SEPARATE ELECTRICAL SERVICE.			SURVEY	
3. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING: LOCAL BUILDING CODE, LOCAL ELECTRICAL CODE, ANY OTHER REGULATING AGENCIES WHICH HAVE AUTHORITY			1 OF 1	LIMITED ALTA/NSPS LAND TITLE SURVEY	
OVER ANY PORTION OF THE WORK AND THOSE CODES AND STANDARDS LISTED IN THESE DRAWINGS.				CIVIL	
1. THESE DRAWINGS SHALL NOT BE USED FOR CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING A CONSTRUCTION LEVEL DESIGN AND ASSOCIATED DRAWINGS		PROJECT LOCATION \	C-1.0	OVERALL PLAN	
AND DETAILS.		The same of the sa	C-2.0	SITE PREPARATION AND DEMOLITION PLAN	
COORDINATE THESE DRAWINGS WITH SPECIFICATIONS AND MANUFACTURER INSTALLATION AND OPERATION MANUALS.		The state of the s	C-2.1	SITE PLAN	
6. UNLESS OTHERWISE NOTED, THE DESIGN REPRESENTED ON THESE PLANS IS BASED ON THE INFORMATION AND CRITERIA LISTED IN THE "BASIS OF DESIGN" SECTION. IT IS THE		and the state of t	C-5.0	CIVIL DETAILS	IT IS A VIOLATION OF LAW FOR ANY PE TO ALTER ANY DOCUMENT WHICH BEARS
RESPONSIBILITY OF THE CONTRACTOR TO VERIFY SUCH INFORMATION IN PREPARATION OF THE CONSTRUCTION DESIGN.		The same of the sa	C-5.1	CIVIL DETAILS	IT IS A VIOLATION OF LAW FOR ANY PE TO ALTER ANY DOCUMENT WHICH BEARS SEAL OF A PROFESSIONAL ENGINEER, UI THEY ARE ACTING UNDER THE DIRECTIO A LICENSED PROFESSIONAL ENGINEE
THE EXISTING CONDITIONS REPRESENTED ON THESE PLANS ARE BASED ON PUBLICLY		and the second s		ECTRICAL	
AVAILABLE INFORMATION AND THE SITE DISCOVERY SUMMARIZED IN THESE DRAWINGS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE ACCURACY OF SUCH INFORMATION			E-0.0	ELECTRICAL NOTES	
AND SUPPLEMENT WITH ANY ADDITIONAL REQUIRED INFORMATION. UNLESS INDICATED AS EXISTING (E), ALL PROPOSED MATERIALS AND EQUIPMENT SHALL BE		The state of the s	E-1.0	AC SINGLE LINE DIAGRAM	
CONSIDERED TO BE NEW. ALL EQUIPMENT AND COMPONENTS SHALL BE MOUNTED IN COMPLIANCE WITH THE		butterry to	E-2.0	PLAN DETAILS	
MANUFACTURER'S REQUIREMENTS, CONSTRUCTION DETAILS, AND/OR PRUDENT INDUSTRY		europer (c) 4 205 Morrouth Corporation C 205 Tomition Billion	E-3.0	ELECTRICAL SCHEDULES	_
STANDARDS. D. TO THE EXTENT THAT TREES AND OTHER FEATURES AFFECT THE SYSTEM'S INSTALLATION,	SYSTEM DESCRIPTION	AERIAL VIEW 📛			JES 380
THEY WILL BE DELIGNED AND DEDUCATED WITH LIVE WILLS DAGGING IE MAT DAGGING	NUMBER OF CHARGING STATIONS 4				SUIT 1 NH 03
CONTINUE TO BIOGGO GOLO HONO MINI ONE OMILEN	NUMBER OF CHARGING SPACES (TOTAL) 8				S-7.
	ACCESSIBLE CHARGING SPACES 1				N AN 15 U
	*REFER TO ELECTRICAL DRAWINGS FOR SYSTEM SPECIFICATIONS.				INN 505 MOU
ADDUCADIE CODEC AND CTANDADDC		2.00 Hard Griesco 2 (20 No COST 20 Hard no no no no			PROJECT NUMBERS ENG24-1702
APPLICABLE CODES AND STANDARDS	PROJECT DIRECTORY	\oplus	BASIS OF DESIGN		RMITI
ALL WORK SHALL COMPLY WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY AUTHORITY HAVING JURISDICTION: NH STATE BUILDING CODE NH STATE ELECTRICAL CODE NH FIRE PREVENTION REGULATIONS AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC 360) AMERICAN CONCRETE INSTITUTE AMERICANS WITH DISABILITIES ACT'S DESIGN STANDARDS (ADADS) 2010 ADA DESIGN STANDARDS U.S. ACCESS BOARD DESIGN RECOMMENDATIONS FOR ACCESSIBLE ELECTRIC VEHICLE CHARGING STATIONS TECHNICAL ASSISTANCE DOCUMENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) UL (UNDERWRITERS LABORATORIES, INC.) STANDARDS CITY OF PORTSMOUTH ZONING BYLAWS	SYSTEM / PROJECT OWNER COAKLEY ROAD EV CHARGING 1, LLC LAND OWNER / HOST GIRI PORTSMOUTH 505 INC. AUTHORITY HAVING JURISDICTION CITY OF PORTSMOUTH, NH 03801 UTILITY EVERSOURCE ELECTRICAL ENGINEER FIRM: USESTON & SAMPSON ENGINEERS, INC. CONTACT: JEFFREY W. SANTACRUCE, PE PTOE PHONE: (978) 532–1900 ELECTRICAL ENGINEER FIRM: LIG CONSULTANTS CONTACT: TONY MORREALE, PE PHONE: (508) 381–3371		ALTA/NSPS LAND TITLE SURVEY: NORTHEAST SURVEY CONSULTANTS FEBRUARY 7, 2025		REV DATE DRAWN CHECKED RELEASE LEVEL O 04/23/25 RWG JWS ISSUED FOR PER O 1 05/09/25 RWG JWS REVISED FOR PER D 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

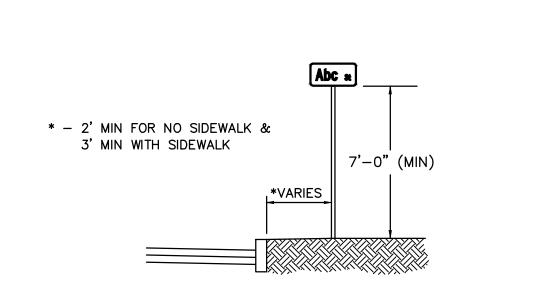












1. SHOWN FOR ILLUSTRATIVE PURPOSES ONLY.

TYPICAL SIGN INSTALLATION

SINGLE SIDE SIGN MOUNTED BACK TO BACK __SIGN POST 1-3/4" x 1-3/4" GROUND SURFACE ANCHOR SLEEVE 2-1/4" x 2-1/4" HOLE DIA. 7/16"— 2'-0" 4'-0" HOLES 1" L

1. SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. 2. POST SHALL MEET NHDOT REQUIREMENTS.

P-5 TELESCOPIC POST

SCALE:

ELECTRIC VEHICLE 18" CHARGING

COLORS: LEGEND, BORDER - WHITE (RETROREFLECTIVE) SYMBOL - WHITE (RETROREFLECTIVE) BACKGROUND - BLUE (RETROREFLECTIVE)

1. DETAIL FROM MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). 2. SUBMIT SIGN SPECIFICATIONS TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

SIGN - SP-1 (D9-11bp)

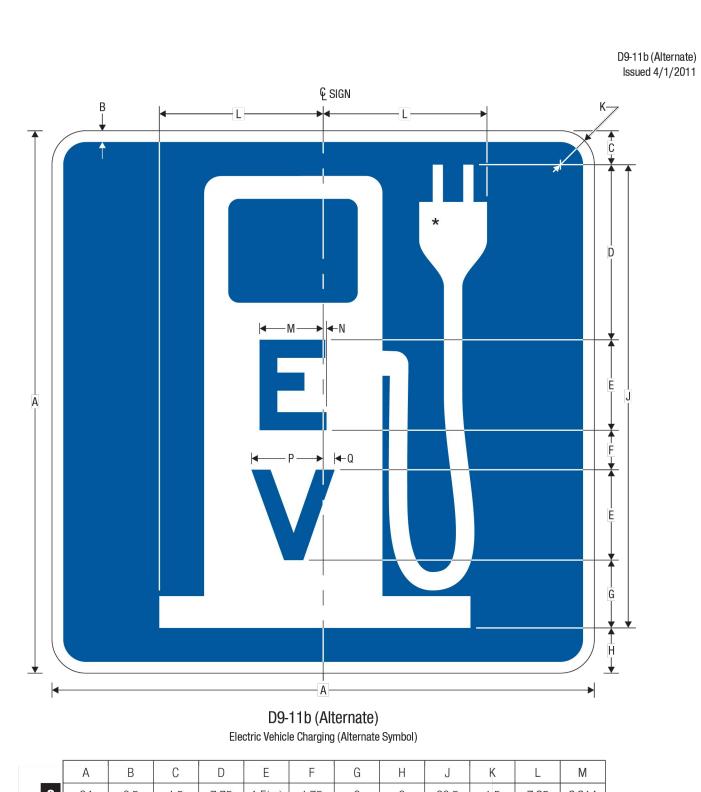
USE LAST DESIGNED FOR ACCESSIBILITY

COLORS: LEGEND, BORDER - BLUE (RETROREFLECTIVE) BACKGROUND - WHITE (RETROREFLECTIVE)

1. SIGN FROM U.S. ACCESS BOARD'S "DESIGN RECOMMENDATIONS FOR ACCESSIBLE ELECTRIC

VEHICLE CHARGING STATIONS".
2. SUBMIT SIGN SPECIFICATIONS TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

SIGN - SP-2



C 24 0.5 1.5 7.75 4 E(m) 1.75 3 2 20.5 1.5 7.25 2.814 30 0.75 1.875 9.625 5 E(m) 2 4 2.5 25.625 1.875 9.063 3.518 N P Q ★ See page IA-13-2 for symbol design 0.148 | 3.174 | 0.507 0.185 3.968 0.635 COLORS: LEGEND, BACKGROUND — BLUE (RETROREFLECTIVE) SYMBOL, BORDER — WHITE (RETROREFLECTIVE)

IA-13-1

COLORS: LEGEND, BORDER - WHITE (RETROREFLECTIVE) BACKGROUND - BLUE (RETROREFLECTIVE)

SCALE:

SCALE:

1. DETAIL FROM MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). 2. SUBMIT SIGN SPECIFICATIONS TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

SIGN - M6-1P

─ 1" CHAMFER SIDE VIEW ISOMETRIC VIEW |- 11 ½" -- 3/4" DIA HOLE END VIEW TOP VIEW

1. DETAIL IS SHOWN FOR ILLUSTRATIVE PURPOSES ONLY. 2. INSTALL WHEEL STOP PER MANUFACTURER RECOMMENDATIONS.

WHEEL STOP

SCALE:

ENG24-1702 Scales Stated on Drawings are valid only when Plotted arch D 24" X 36"

C-5.

CIVIL DETAILS

THIS DOCUMENT IS PROVIDED BY NEW LEAF ENERGY, INC. TO FACILITATE THE SALE OF THE ELECTRIC CHARGING STATION PROJECT REPRESENTED HEREIN. REPRODUCTION, RELEASE OR UTILIZATION FOR ANY OTHER PURPOSE, WITHOUT PRIOR WRITTEN CONSENT IS STRICTLY PROHIBITED.

new leaf

energy

55 TECHNOLOGY DRIVE, SUITE 102 LOWELL, MA 01851 PHONE: (888) 898-6273 FAX: (888) 843-6778 WWW.NEWLEAFENERGY.COM

NOT FOR

CONSTRUCTION

Weston & Sampson

Weston & Sampson Engineers, Inc. 150 Dow Street, Tower 4, Suite 350 Manchester, NH 03101 978.532.1900 800.SAMPSON www.westonandsampson.com

IT IS A VIOLATION OF LAW FOR ANY PERSON TO ALTER ANY DOCUMENT WHICH BEARS THE SEAL OF A PROFESSIONAL ENGINEER, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.

PORT INN AND SUITES 505 US-1 PORTSMOUTH, NH 03801

1. DETAIL FROM MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). 2. SUBMIT SIGN SPECIFICATIONS TO ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. SIGN - D9-11b (ALTERNATE) SCALE:

PROJECT NUMBER:

GENERAL:

- 1. THE ELECTRICAL CONTRACTOR SHALL INDICATE TO THE ENGINEER OF RECORD OF ANY DISCREPANCIES WITH THE DRAWING PACKAGE WITH REGARDS TO THE SITE LAYOUT, NATIONAL ELECTRICAL CODE, AND MANUFACTURER RECOMMENDATIONS. THESE DISCREPANCIES SHALL BE PRESENTED TO THE ENGINEER OF RECORD (EOR) FOR
- 2. THESE CONTRACT DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE INTENDED TO CONVEY THE SCOPE OF WORK, THE GENERAL ARRANGEMENT OF EQUIPMENT, CONDUITS, PANELS, FIXTURES, ETC.
- 3. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL EQUIPMENT AND ACCESSORIES TO MAKE THIS A COMPLETE AND OPERABLE SYSTEM.
- 4. THE ELECTRICAL CONTRACTOR SHALL FOLLOW ALL EQUIPMENT MANUFACTURER'S RECOMMENDATIONS AND ADHERE
- TO ALL MANUFACTURER'S REQUIREMENTS FOR INSTALLATION.

 5. ALL DOCUMENTATION PERTAINING TO THE MAJOR PIECES OF EQUIPMENT SHALL BE PROVIDED TO THE OWNER AND
- BE PART OF THE TURNOVER DOCUMENTATION.
 6. THIS PROJECT SHALL BE IN ACCORDANCE WITH THE 2023 NATIONAL ELECTRICAL CODE (NFPA 70) AND ALL OTHER
- LOCAL AND STATE LAWS AS WELL AS THE AUTHORITY HAVING JURISDICTION (AHJ).
- 7. INSPECTIONS BY THE AHJ AND EOR SHALL TAKE PLACE PRIOR TO ANY WORK THAT WILL BE PERMANENTLY COVERED.
- 8. THE EQUIPMENT AND ACCESSORIES THAT MAKE UP THIS SYSTEM SHALL BE UL LISTED AND BE USED FOR THEIR
- INTENDED PURPOSE.

 9. CONTRACTOR TO CONFIRM EXISTING FIELD CONDITIONS AND VERIFY ALL DIMENSIONS.
- 10. ALL OUTDOOR EQUIPMENT SHALL BE RATED FOR OUTDOOR USE (NEMA 3R OR BETTER).
 11. ALL MATERIALS PROVIDED BY THE INSTALLING CONTRACTOR SHALL BE NEW AND FREE OF DEFECTS AND DAMAGE.
 ALL ELECTRICAL MATERIALS AND INSTALLATIONS SHALL MEET THE INDUSTRY STANDARDS IDENTIFIED OF THE
 NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI),
 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), THE INSTITUTE OF ELECTRICAL AND ELECTRONICS
- ENGINEERS (IEEE), AND UNDERWRITER'S LABORATORIES, INC. (UL)

 12. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO PROVIDE AND INSTALL THE EQUIPMENT AND
- ACCESSORIES THAT WILL LAST THE LIFETIME OF THE SYSTEM.

 13. ALL EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED IN A NEAT AND WORK LIKE MANNER. ALL ENCLOSURES SHALL BE CLEANED OF ANY DEBRIS FROM INSTALLATION AND THE SURROUNDING AREA SHALL BE CLEANED AS
- WELL.
 14. THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE PROPER PERMITS FOR THE INSTALLATION AND DISPLAY THEM AT
- THE JOBSITE OR AS REQUIRED BY THE AHJ.

 15. THE ELECTRICAL CONTRACTOR SHALL PERFORM INSULATION RESISTANCE TESTING ON ALL WIRING TO ENSURE THE INTEGRITY OF THE INSULATION IS GOOD FOR IN SERVICE USE. DOCUMENTATION SHALL BE PROVIDED WITH THE
- RESULTS OF THIS TESTING. 16. ALL EQUIPMENT AND MATERIALS SHALL BE MAINTAINED AND PROTECTED FROM DAMAGE UNTIL FINAL ACCEPTANCE
- BY THE OWNER.

 17. ENERGIZING THE SITE SHALL NOT BE DONE UNTIL ALL PARTIES HAVE REVIEWED THE INSTALLATION AND ARE
- SATISFIED WITH THE PRODUCT.

 18 ALL FOLLIPMENT OPENINGS SHALL BE SEALED TO PREVENT THE INCRESS OF WATER OR PODENTS.
- 18. ALL EQUIPMENT OPENINGS SHALL BE SEALED TO PREVENT THE INGRESS OF WATER OR RODENTS.
- 19. SUBMITTALS SHALL BE PROVIDED FOR ALL ELECTRICAL EQUIPMENT AND MATERIALS THAT WILL BE USED FOR THE INSTALLATION.
- 20. PRIOR TO ANY EXCAVATION DIG SAFE MUST BE CONTACTED.
 21. ALL EQUIPMENT SHALL BE INSTALLED TO MAINTAIN PROPER WORKING DISTANCES.

SAFFTY

- PROPER ELECTRICAL SAFETY SHALL BE EMPLOYED BY THE ELECTRICAL CONTRACTOR.
- 2. THE ELECTRICAL CONTRACTOR SHALL USE THEIR OWN COMPANY SAFETY PROGRAM IN ADDITION TO ANY SPECIFIC
- REQUIREMENTS FROM THE OWNER.
 3. DURING AND AFTER COMMISSIONING THE CONTRACTOR SHALL MAINTAIN CONTROL OF THE SITE ELECTRICAL SYSTEM
- UNTIL THE PROJECT HAS BEEN FORMAL TURNED OVER TO THE OWNER.
 4. PROPER PROCEDURES AND SAFETY MEASURES SHALL BE TAKEN TO PREVENT ANY WORKER FROM COMING IN
- CONTACT WITH ANY LIVE ELECTRICAL PARTS.

 5. ALL FUSES, DISCONNECTS, AND CIRCUIT BREAKERS SHALL BE LEFT IN THE OPEN POSITION DURING CONSTRUCTION OR SHALL BE IN COMPLIANCE WITH THE ELECTRICAL CONTRACTORS SAFETY PROGRAM.

LABELS

- 1. ALL LABELS SHALL BE IN ACCORDANCE WITH THE 2023 NEC AND MEET ALL SAFETY CODES.
- 2. ALL LABELS SHALL BE MADE OF DURABLE AND WATERPROOF MATERIALS.
- 3. LABELS SHALL BE INSTALLED ON THE APPROPRIATE EQUIPMENT. IF SPACE IS LIMITED A NEW LOCATION SHALL BE DISCUSSED WITH THE OWNER AND ENGINEER OR RECORD.
- 4. LABELS SHALL BE SECURELY FASTENED TO THE EQUIPMENT.
- 5. ALL LABELS SHALL BE LEGIBLE, PRINTED, AND OF APPROPRIATE FONT SIZE.
- 6. DANGER LABELS SHALL BE RED, WARNING LABELS SHALL BE ORANGE, AND CAUTION LABELS SHALL BE YELLOW.

TESTING:

- 1. ALL TESTING SHALL BE IN COMPLIANCE WITH NETA 2017 ACCEPTANCE TESTING.
- 2. ALL TESTING SHALL BE COMPLETED PRIOR TO ENERGIZING THE SYSTEM.
- 3. A VISUAL INSPECTION SHALL BE PERFORMED ON ALL THE ELECTRICAL EQUIPMENT AND MUST BE DOCUMENTED.
 4. ELECTRICAL CONTRACTOR TO PERFORM INSULATION RESISTANCE AND CONTINUITY TESTS FOR ALL CONDUCTORS.
 INSULATION RESISTANCE TEST SHALL NOT TEST LESS THAN 100 MEGOHMS FOR CABLES RATED 600V. TEST VALUES
- SHALL BE 1000VDC OR AS REQUIRED BY THE MANUFACTURER. TEST SHALL BE IN ACCORDANCE WITH NETA 2017.

 5. ELECTRICAL CONTRACTOR SHALL VERIFY PROPER PHASE ROTATION ONCE THE SITE IS ENERGIZED.

 6. CHARGING SYSTEM SHALL BE ENERGIZED BY A CERTIFIED REPRESENTATIVE UNLESS PRIOR NOTICE FROM THE
- MANUFACTURER HAS BEEN PROVIDED STATING THE ELECTRICAL CONTRACTOR CAN COMMISSION AND START UP THE SYSTEM.

 7. ALL TEST RESULTS AND DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AND ENGINEER OR RECORD FOR
- 7. ALL TEST RESULTS AND DOCUMENTATION SHALL BE PROVIDED TO THE OWNER AND ENGINEER OR RECORD FOR APPROVAL PRIOR TO THE SITE BEING ENERGIZED.

GROUNDING:

REGULATIONS.

- . ALL GROUNDING SHALL BE IN COMPLIANCE WITH THE 2023 NEC ARTICLE 250.
- 2. ALL GROUNDING SHALL BE LISTED FOR ITS PURPOSE.
- 3. GROUND RODS, IF REQUIRED, SHALL HAS A MINIMUM DIAMETER OF 5/8 INCH AND HAVE A MINIMUM LENGTH OF 8 FEET. GROUND RODS SHALL BE COPPER COATED WITH A HIGH STRENGTH STEEL CORE.
- 4. USE IRREVERSIBLE CRIMP FOR PERMANENTLY CONCEALED AND INACCESSIBLE CONNECTIONS.
- 5. EQUIPMENT GROUNDING SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS WELL AS
- 6. GROUND ALL EXPOSED NON-CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, RACEWAY SYSTEMS, AND EQUIPMENT STRUCTURES IN ACCORDANCE WITH THE NEC. STATE, AND OTHER APPLICABLE LAWS AND
- 7. ELECTRICAL CONTRACTOR SHALL TEST THE GROUNDING ELECTRODE SYSTEM TO ENSURE THAT THE GROUND RESISTANCE IS LESS THAN 25 OHMS. AN EARTH RESISTANCE TESTER SHALL BE USED FOR THIS TEST. TEST RESULTS TO BE SUBMITTED TO THE OWNER AND ENGINEER OF RECORD FOR REVIEW AND APPROVAL.

WIRE AND CABLE

LOW VOLTAGE (AC)

- 1. ALL LOW VOLTAGE CABLES SHALL BE 75°C AND HAVE A MINIMUM 600V RATING.
- 2. CABLES SHALL BE RATED FOR THE SYSTEM VOLTAGE.
- 3. ALL CABLES SHALL BE LISTED FOR WET LOCATIONS.
- ALL CABLES SHALL BE LISTED FOR THEIR INTENDED USE.
 ALL CONDUCTORS SHALL BE INSTALLED NEATLY AND DRESSED INTO THE EQUIPMENT SO THAT THEY DO NOT OBSTRUCT OR PREVENT OPERATION OF THE EQUIPMENT. CABLE TIES SHALL BE USED TO SECURE THE
- 6. ALL EXPOSED CABLES SHALL BE UV RESISTANT AND OUTDOOR RATED.
- 7. CONDUCTORS SHALL BE SIZED FOR THE AMPACITY OF THE CIRCUIT. THESE VALUES SHALL BE DETERMINED USING
- 8. CONDUITS SHALL BE FREE OF ANY DEBRIS PRIOR TO PULLING THE CABLES. ALL CABLES SHALL BE PULLED USING THE PROPER PULLING LUBRICANTS. LUBRICANTS SHALL NOT BE DESTRUCTIVE TO THE OUTER JACKET OF THE CABLE. THE PULLING LUBRICANT SHALL BE CONFIRMED WITH THE CABLE MANUFACTURER THAT IT IS APPROVED
- 9. IRREVERSIBLE, TWO HOLE, LONG BARREL, DOUBLE CRIMPED LUGS SHALL BE USED ON ALL LOW VOLTAGE TERMINATIONS. IF A TWO HOLE LUG CANNOT BE INSTALLED SINGLE HOLE LUGS CAN BE USED WITH THE
- PERMISSION OF THE ENGINEER OF RECORD.

 10. TERMINATIONS THAT ARE SUPPLIED WITH THE MANUFACTURED EQUIPMENT SHALL BE USED AND PROPER TORQUE
- VALUES MUST BE FOLLOWED.

 11. ALL ELECTRICAL CONNECTIONS SHALL BE TORQUE IN ACCORDANCE WITH THE MANUFACTURER'S
- RECOMMENDATIONS. IF THE MANUFACTURER DOES NOT HAVE RECOMMENDATIONS STANDARD INDUSTRY PRACTICE SHOULD BE FOLLOWED FOR TORQUE VALUES.

 12. DOCUMENTATION SHALL BE PROVIDED DETAILING THE TORQUE VALUES OF THE ELECTRICAL CONNECTIONS. THESE
- CONNECTIONS SHALL BE MARKED WITH TORQUE MARKING PAINT OR EQUIVALENT.

 13. ALL CABLES SHALL BE SUPPORTED WITHIN EQUIPMENT TO PROPERLY DISTRIBUTE THE WEIGHT OF THE CABLES
- AND TO PREVENT STRESS ON THE TERMINATION POINTS.

 14. SPLICING OF ANY WIRES IS NOT ALLOWED UNLESS APPROVED BY THE OWNER AND ENGINEER OF RECORD.
- 15. ALL WIRING SHALL BE FACTORY COLOR CODED. OTHERWISE FEEDER AND BRANCH CIRCUIT CONDUCTORS SHALL BE COLOR CODED AS FOLLOWS:

<u>208V</u>	<u>PHASE</u>	<u>480V</u>	<u>PHASE</u>
BLACK	A	BROWN	A
RED	B	ORANGE	B
BLUE	C	YELLOW	C
WHITE	NEUTRAL	WHITE	NEUTRA
GREEN	GROUND	GREEN	GROUNE

- 16. THE WIRE SIZE IS BASED ON THE ESTIMATED CONDUCTOR LENGTH AS SHOWN IN THIS DRAWINGS SET. SHOULD THE CONDUIT ROUTING CHANGE AND THE OVERALL LENGTH INCREASED, THE CONDUIT AND WIRE MAY NEED TO BE RESIZED TO MAINTAIN THE DESIGN VOLTAGE DROP. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD PRIOR TO MAKING ANY FIELD CHANGES.
- 17. SUFFICIENT LENGTH OF CABLE SHALL BE PROVIDED TO FACILITATE REPLACEMENTS IF A REPLACEMENT IS NEEDED.

LOW VOLTAGE (DC)

- 1. ALL LOW VOLTAGE CABLES SHALL BE 75°C AND HAVE A MINIMUM 1000VAC/1500VDC RATING.
- 2. CABLES SHALL BE RATED FOR THE SYSTEM VOLTAGE.
- 3. ALL CABLES SHALL BE LISTED FOR WET LOCATIONS.
- 4. ALL CABLES SHALL BE LISTED FOR THEIR INTENDED USE.
- 5. ALL CONDUCTORS SHALL BE INSTALLED NEATLY AND DRESSED INTO THE EQUIPMENT SO THAT THEY DO NOT OBSTRUCT OR PREVENT OPERATION OF THE EQUIPMENT. CABLE TIES SHALL BE USED TO SECURE THE
- CONDUCTORS.

 6. ALL EXPOSED CABLES SHALL BE UV RESISTANT AND OUTDOOR RATED.
- 7. CONDUCTORS SHALL BE SIZED FOR THE AMPACITY OF THE CIRCUIT. THESE VALUES SHALL BE DETERMINED USING
- 8. CONDUITS SHALL BE FREE OF ANY DEBRIS PRIOR TO PULLING THE CABLES. ALL CABLES SHALL BE PULLED USING THE PROPER PULLING LUBRICANTS. LUBRICANTS SHALL NOT BE DESTRUCTIVE TO THE OUTER JACKET OF THE CABLE. THE PULLING LUBRICANT SHALL BE CONFIRMED WITH THE CABLE MANUFACTURER THAT IT IS APPROVED
- 9. IRREVERSIBLE, TWO HOLE, LONG BARREL, DOUBLE CRIMPED LUGS SHALL BE USED ON ALL LOW VOLTAGE TERMINATIONS. IF A TWO HOLE LUG CANNOT BE INSTALLED SINGLE HOLE LUGS CAN BE USED WITH THE PERMISSION OF THE ENGINEER OF RECORD.
- 10. TERMINATIONS THAT ARE SUPPLIED WITH THE MANUFACTURED EQUIPMENT SHALL BE USED AND PROPER TORQUE VALUES MUST BE FOLLOWED.
- 11. ALL ELECTRICAL CONNECTIONS SHALL BE TORQUE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. IF THE MANUFACTURER DOES NOT HAVE RECOMMENDATIONS STANDARD INDUSTRY PRACTICE SHOULD BE FOLLOWED FOR TORQUE VALUES.
- 12. DOCUMENTATION SHALL BE PROVIDED DETAILING THE TORQUE VALUES OF THE ELECTRICAL CONNECTIONS. THESE CONNECTIONS SHALL BE MARKED WITH TORQUE MARKING PAINT OR EQUIVALENT.
- 13. ALL CABLES SHALL BE SUPPORTED WITHIN EQUIPMENT TO PROPERLY DISTRIBUTE THE WEIGHT OF THE CABLES AND TO PREVENT STRESS ON THE TERMINATION POINTS.
- AND TO PREVENT STRESS ON THE TERMINATION POINTS.

 14. SPLICING OF ANY WIRES IS NOT ALLOWED UNLESS APPROVED BY THE OWNER AND ENGINEER OF RECORD.
- 15. DC WIRING SHALL BE RED FOR POSITIVE, BLACK FOR NEGATIVE, AND GREEN FOR GROUND. WIRING SHALL BE MARKED SUNLIGHT RESISTANT.
 16. THE WIRE SIZE IS BASED ON THE ESTIMATED CONDUCTOR LENGTH AS SHOWN IN THIS DRAWINGS SET. SHOULD THE CONDUIT ROUTING CHANGE AND THE OVERALL LENGTH INCREASED, THE CONDUIT AND WIRE MAY NEED TO BE
- RESIZED TO MAINTAIN THE DESIGN VOLTAGE DROP. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD PRIOR TO MAKING ANY FIELD CHANGES.

 17. SUFFICIENT LENGTH OF CABLE SHALL BE PROVIDED TO FACILITATE REPLACEMENTS IF A REPLACEMENT IS NEEDED.

RACEWAYS:

- 1. CONDUITS IN THE DRAWING SET ARE SHOWN DIAGRAMMATICAL. THE ELECTRICAL CONTRACTOR SHALL ROUTE THE CONDUITS TO AVOID ANY OBSTRUCTIONS AND MAINTAIN PROPER CLEARANCES.
- 2. ABOVE GROUND CONDUIT SHALL BE RIGID METAL CONDUIT (RMC), THREADED, MINIMUM 3/4 INCH IN SIZE OR AS
- NOTED IN THE DRAWING SET.

 3. USE CONDUIT HUBS OR SEALING LOCKNUTS TO FASTEN CONDUIT TO BOXES IN DAMP AND WET LOCATIONS.
- 4. ALL CONDUIT AND FITTINGS SHALL BE WATER TIGHT. MYERS HUBS SHALL BE USED FOR CONDUIT ENTRY INTO
- 5. SUPPORT CONDUIT USING STEEL OR MALLEABLE IRON SINGLE OR DOUBLE HOLE CONDUIT STRAPS, LAY-IN ADJUSTABLE HANGERS, CLEVIS HANGERS AND SPLIT HANGERS AS REQUIRED. DISTANCE BETWEEN SUPPORTS SHALL BE IN COMPLIANCE WITH THE NEC AND MANUFACTURER'S RECOMMENDATIONS.
- 6. EXPANSION FITTINGS SHALL BE PROVIDED AS REQUIRED PER THE NEC OR AS NOTED IN THE DRAWING SET.
 7. ALL CONDUITS SHALL BE INSTALLED AT THE DEPTHS SHOWN IN DRAWINGS. IF FIELD CONDITIONS DO NOT ALLOW
- DEPTHS AS SHOWN, CONTRACTOR SHALL FOLLOW NEC TABLE 300.5.

 8. ALL METALLIC CONNECTORS AND FITTINGS SHALL BE NON—CORRODING (PVC, ALUMINUM, STAINLESS STEEL OR
- 9. CONDUIT BENDING SHALL NOT DAMAGE THE RACEWAY OR SIGNIFICANTLY CHANGE THE INTERNAL DIAMETER OF
- RACEWAY.

 10. CONDUIT RUNS SHALL NOT EXCEED 360 DEGREES OF BENDS.
- 11. ALL FIELD CUT CONDUITS SHALL BE CUT SQUARE AND DEBURRED TO PREVENT DAMAGE TO THE CABLES.
 12. ALL CONDUITS SHALL BE FREE OF ANY OBSTRUCTIONS BEFORE WIRE IS PULLED. ALL SPARE CONDUITS SHALL
- HAVE PULL STRINGS INSTALLED.

 13. ALL JUNCTION BOXES, DISCONNECTS, AND EQUIPMENT SHALL BE PROVIDED WITH PAD LOCKING PROVISIONS.
- 13. ALL JUNCTION BOXES, DISCONNECTS, AND EQUIPMENT SHALL BE PROVIDED WITH PAD LOCKING PROVISION 14. ALL CONDUIT THAT HAS BEEN CUT AND THREADED SHALL BE CLEANED AND COATED WITH A ZINC RICH
- GALVANIZING COMPOUND.

 15. ALL CONDUITS SHALL BE SEALED USING DUCT SEAL OR AN APPROVED SPRAY FOAM.

 16. WHERE WIRE AND CABLE ROUTING IS NOT SHOWN, AND DESTINATION ONLY IS INDICATED, CONTRACTOR SHALL
- SUPPLIED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.

 19. CONDUIT SHALL BE FASTEN SECURELY IN PLACE. CONDUITS SHALL BE RUN AT RIGHT ANGLES AND IN PARALLEL

DETERMINE EXACT ROUTING AND LENGTHS REQUIRED. A SHOP DRAWING OF PROPOSAL INSTALLATION SHALL BE

EQUIPMENT:

LEGEND:

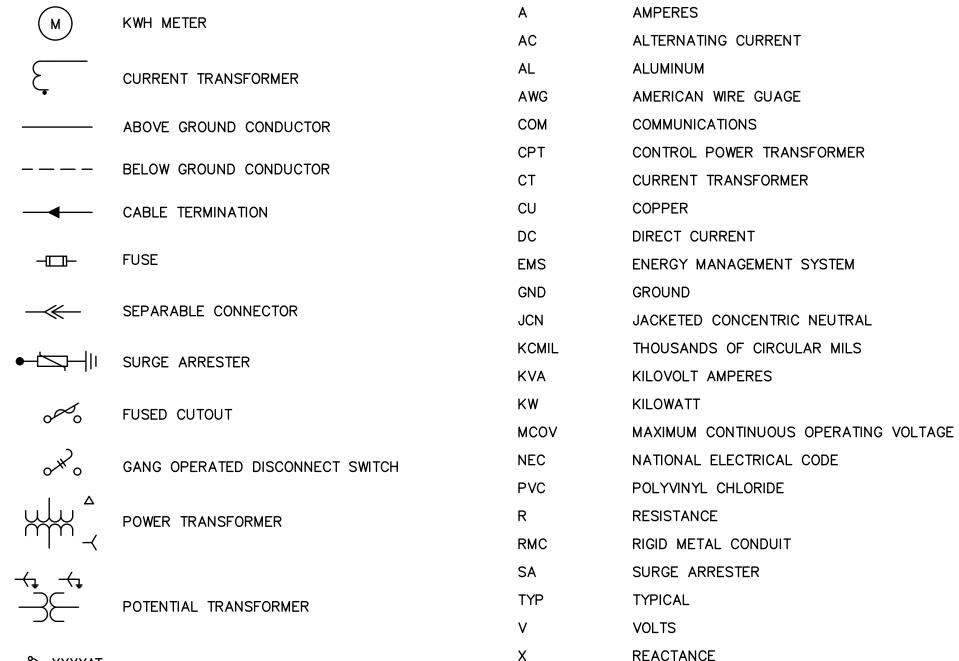
- 1. ALL EQUIPMENT SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS AND SHALL MAINTAIN PROPER
- CLEARANCES FROM ANY OTHER EQUIPMENT.

 2. ALL EQUIPMENT SHALL BE MOUNTED LEVEL AND PLUMB.

5. ALL OUTDOOR EQUIPMENT SHALL BE NEMA 3R OR BETTER.

- 3. EQUIPMENT SHALL BE ANCHORED USING HILTI DROP IN ANCHORS OR APPROVED EQUALS OR AS DIRECTED BY THE
- MANUFACTURER.
 4. DISCONNECTS SHALL BE MOUNTED USING UNISTRUT AND ASSOCIATED HARDWARE OR WALL ANCHORS.

	ABBREVIATIONS	<u>>:</u>	IT IS A VIOLATION O TO ALTER ANY DOCU SEAL OF A PROFESS THEY ARE ACTING U A LICENSED PRO
ETER	Α	AMPERES	



XFMR

TRANSFORMER

IMPEDANCE

o o DISCONNECT SWITCH

GROUND

LOW VOLTAGE CIRCUIT BREAKER

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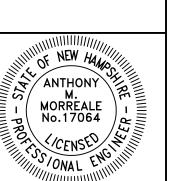
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XXX-XXX

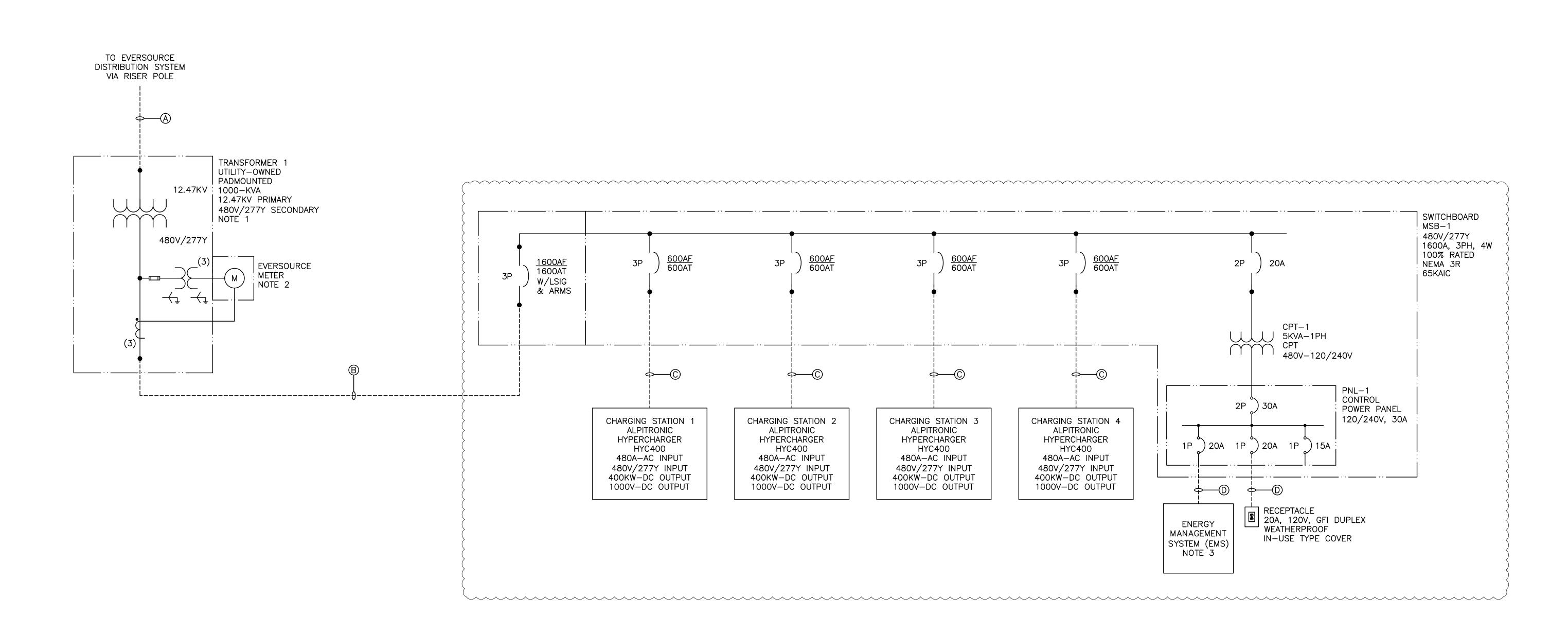
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NO3/04/2025 NPC AMM ISSUED FOR PER

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ELECTRICAL NOTES

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"



CABLE AND CONDUIT SCHEDULE									
VOLTAGE	SETS	CABLE	CONDUIT						
15KV	TBD	CABLE SIZED & INSTALLED BY EVERSOURCE	(1) 4" PVC						
600V	5	(4) 500 KCMIL CU	(5) 4" PVC						
600V	2	(3) 500 KCMIL CU, (1) #1 AWG GND	(2) 3" PVC						
600V	1	(1) #12 AWG CU (PH), (1) #12 AWG CU (N), (1) #10 AWG CU (G)	(1) 3/4" PVC						
	15KV 600V 600V	15KV TBD 600V 5 600V 2	VOLTAGE SETS CABLE 15KV TBD CABLE SIZED & INSTALLED BY EVERSOURCE 600V 5 (4) 500 KCMIL CU 600V 2 (3) 500 KCMIL CU, (1) #1 AWG GND 600V 4 (1) #12 AWG CU (PH), (1) #12 AWG CU (N),						

ONELINE DIAGRAM

SCALE: NTS

NOTES

1. CONTRACTOR TO INSTALL ALL SECONDARY CONDUIT AND CABLE.

TO TERMINATE CARLES ON TRANSFORMER. 2. CONTRACTOR TO VERIFY EXACT METER LOCATION WITH UTILITY. TELECOMMUNICATION LINE OR WIRELESS SERVICE TO BE PROVIDED TO UTILITY REVENUE METERING.

3. PER NEC 625.42 (A), AN ENERGY MANAGEMENT SYSTEM (EMS) WILL BE UTILIZED (MOBILITY HOUSE LLC'S CHARGEPILOT CONTROLLER OR EQUIVALENT). EMS TO BE CONNECTED TO THE EV CHARGERS VIA ETHERNET AND COMMUNICATE WITH CHARGERS THROUGH OPEN CHARGE POINT PROTOCOL (OCPP). USING THE PROGRAMMED UTILITY AND EQUIPMENT CAPACITY LIMITS, THE EMS MANAGES AND OPTIMIZES THE POWER DISTRIBUTION TO ENSURE THAT THE CHARGERS DO NOT OVERLOAD THE SOURCE OR THE EQUIPMENT.

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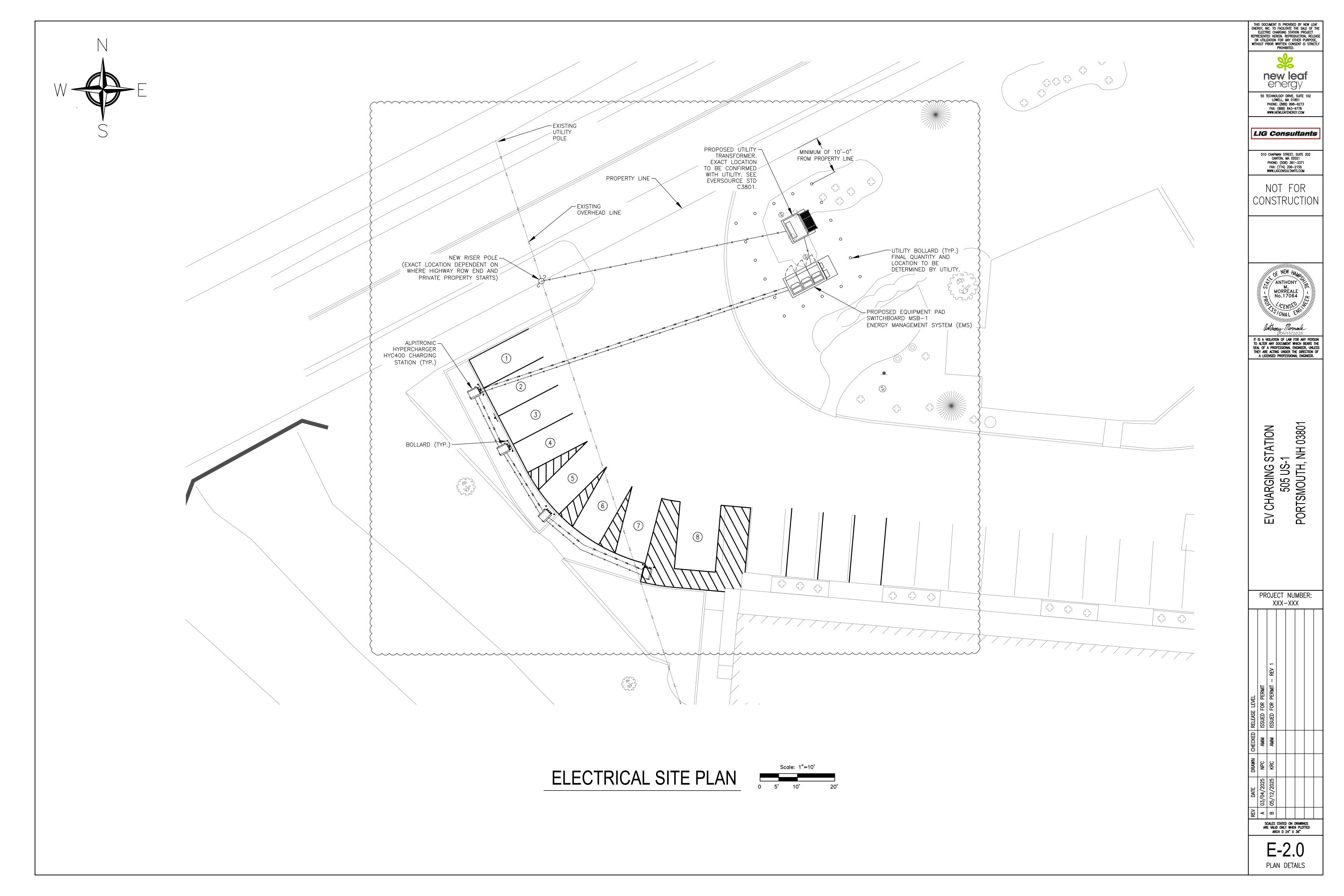
H, NH 03801 STATION EV CHARGING S 505 US-' PORTSMOUTH, I

PROJECT NUMBER: XXX-XXX

AMM AMM AMM AMM AMM

SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"

AC SINGLE LINE DIAGRAM



NO.	EQUIPMENT	EQUIPMENT TO	EQUIPMENT FROM	VOLTAGE (V)	EQUIPMENT KVA	CURRENT (A)	FULL LOAD CURRENT MULTIPLIED BY 1.25	OVERCURRENT PROTECTIVE DEVICE SIZE	MAXIMUM ONE WAY LENGTH (FT)	CONDUCTOR SIZE	NEUTRAL SIZE	CONDUCTOR MATERIAL	GROUND SIZE	GROUND CONDUCTOR MATERIAL	WIRE AMPACITY	DERATED CONDUCTOR AMPACITY	CONDUCTOR INSULATION TYPE	VOLTAGE DROP (%)	CONDU
1	1600A SWITCHBOARD	MSB-1	XFMR-1	480	1596.21	1920.0	-	1600	25	5 X #500	#500	CU	-	1	1900	1786	XHHW-2	0.10%	(5) 4"
2	POWER CABINET 1	CS-1	MSB-1	480	399.05	480	600	700	50	2 X #500	-	CU	#1	CU	760	714.4	XHHW-2	0.13%	3"
3	POWER CABINET 2	CS-2	MSB-1	480	399.05	480	600	700	50	2 X #500	-	CU	#1	CU	760	714.4	XHHW-2	0.13%	3"
4	POWER CABINET 3	CS-3	MSB-1	480	399.05	480	600	700	45	2 X #500	-	CU	#1	CU	760	714.4	XHHW-2	0.11%	3"
5	POWER CABINET 4	CS-4	MSB-1	480	399.05	480	600	700	45	2 X #500	-	CU	#1	CU	760	714.4	XHHW-2	0.11%	3"
6	ENERGY MANAGEMENT SYSTEM	EMS-1	PNL-1	120	0.25	1.2	1.5	20	15	#12	#12	CU	#12	CU	25	23.5	XHHW-2	0.05%	3/4'
7	RECEPTACLE	RECP-1	PNL-1	120	0.2	1.0	1.3	20	15	#12	#12	CU	#12	CU	25	23.5	XHHW-2	0.04%	3/4

					SWIT	rchboard n	/ISB-1						
	VOLTAGE:	PHASE:	WIRE:	BU	JS:		MA	AIN:	SHORT	CIRCUIT	LOCATION:		
	480/277 V	3P	4W	160	00 A		160	00A	65	KA	-		
		TRIP			PH	ASE LOADS (VA)			TRIP			
CIRCUIT	DESCRIPTION	AMPS	POLES	VA	Α	В	С	VA	POLES	AMPS	DESCRIPTION	CIRCU	
					798105.6								
1	CHARGING STATION 1	600	3	399052.8		798105.6		399052.8	3	600	CHARGING STATION 2	2	
							798105.6	1					
					798105.6					600			
3	CHARGING STATION 3	600	3	399052.8		798105.6		399052.8	3		CHARGING STATION 4	4	
							798105.6						
_	CDT/DANIELDOADD	20	2	F000	2886.8			-	-	-	-	-	
5	CPT/PANELBOARD	20	2	5000		2886.8		-	-	-	-	-	
-	-	-	-	-			0	-	-	-	-	-	
	T	OTAL CONNE	CTED PHASI	E LOAD (VA)	1599098.0	1599098.0	1596211.2						
		TOTAL	CONNECTE	D LOAD (VA)		1601211.2							
		LIMITEI	D MAXIMIIN	/ILOAD (VA)		1000000							

					PANEL I	PNL-1					
	VOLTAGE:	PHASE:	WIRE:	BL	JS:	MA	NN:	SHORT	CIRCUIT	LOCATION:	
	120/240 V	1P	3W	100	0 A	30)A	30	KA	-	
		TRIP			PHASE LC	DADS (VA)			TRIP		
CIRCUIT	DESCRIPTION	AMPS	POLES	VA	Α	В	VA	POLES	AMPS	DESCRIPTION	CIRCUIT
1	ENERGY MANAGEMENT (EMS)	20	1	1000	1000		-	1	20	SPARE	2
3	RECEPTACLE	20	1	200		400	200	1	20	LIGHTING	4
5	SPARE	20	1	-	0		-	-	-	SPACE	6
7	SPARE	20	1	-		0	-	-	-	SPACE	8
9	SPARE	20	1	-	0		-	-	-	SPACE	10
	TC	TAL PHASE	CONNECTED	LOAD (VA)	1000	400					
	TOTA	AL DANEL CO	NNIECTED CI	IRRENT (A)	11	67			_	_	

	ELECTRICAL EQUIPMENT SCHEDULE									
REF ID	QUANTITY	DESCRIPTION								
MCD 1	1	SWITCHBOARD, 480V, 1600A BUS, 1600A LSIG BREAKER, SERVICE ENTRANCE								
MSB-1	1	RATED, WITH ARMS AND INTERNAL CPT/PANELBOARD								
EN AC	_	MOBILITY HOUSE LLC'S CHARGEPILOT CONTROLLER OR EQUIVALENT ENERGY								
EMS	1	MANAGEMENT SYSTEM								
RECP	1	20A, 120V, GFI DUPLEX WEATHERPROOF IN-USE TYPE COVER								
CS-XX	4	ALPITRONIC HYPERCHARGER HYC400 CHARGING STATION								

ELECTRICAL SCHEDULES

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	PR	OJE X	CT XX-		MBI X	ER:				
DRAWN CHECKED RELEASE LEVEL	AMM ISSUED FOR PERMIT	ISSUED FOR PERMIT — REV 1								
СНЕСКЕВ	MMA	MMA								
DRAWN	NPC	KRC								
DATE	03/04/2025	05/12/2025								
REV	٧	В								
	SCALES STATED ON DRAWINGS ARE VALID ONLY WHEN PLOTTED ARCH D 24" X 36"									

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