

TOWN OF NEWBURGH PLANNING BOARD TECHNICAL REVIEW COMMENTS

PROJECT NAME: SOUTH PLANK HOLDINGS, LLC AMENDED SITE PLAN/ EV CHARGING

PROJECT NO.: 25-20

PROJECT LOCATION: 209 S. PLANK ROAD - SECTION 60, BLOCK 3, LOT 2

REVIEW DATE: 12 SEPTEMBER 2025 MEETING DATE: 18 SEPTEMBER 2025

PROJECT REPRESENTATIVE: STEPHEN GIANNONA, PE / NICHOLAS GASPARO

1. Adjoiners' notices have been circulated for the project.

2. The project is located on a State Highway and must be referred to County.

3. Project previously was thought to require a variance for the canopy however, ZBA research identifies that the canopy has previously received variances from the ZBA.

Respectfully submitted,

MHE Engineering, D.P.C.

Patrick J. Hines

Principal

PJH/kmm

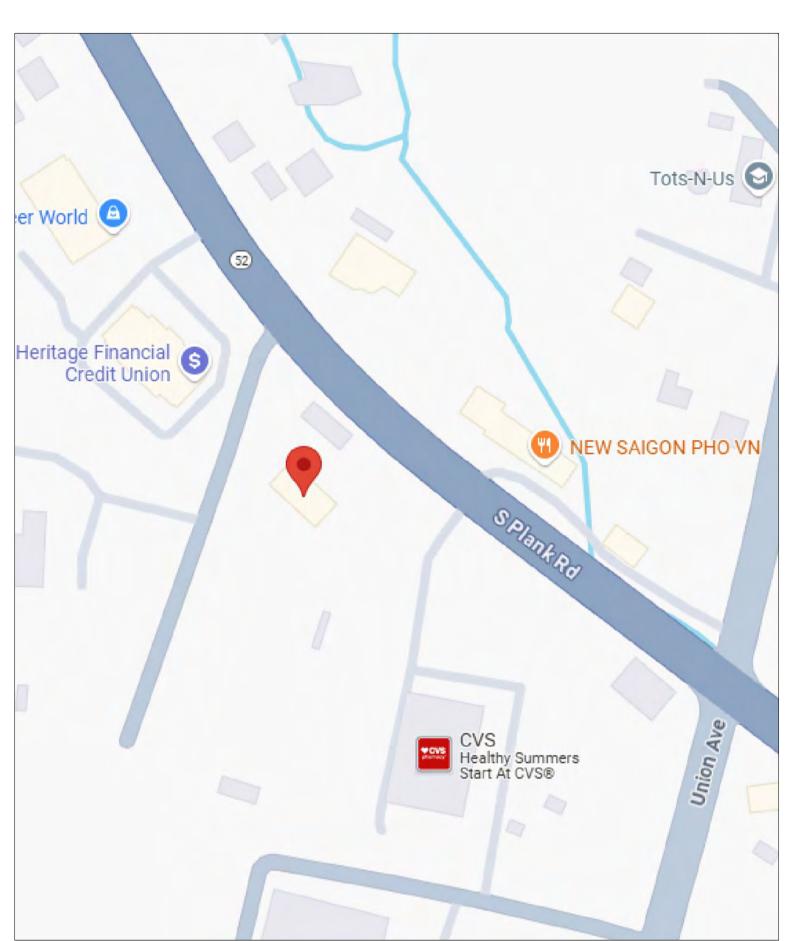
Michael W. Weeks, P.E.

Miele W Wesh

Principal

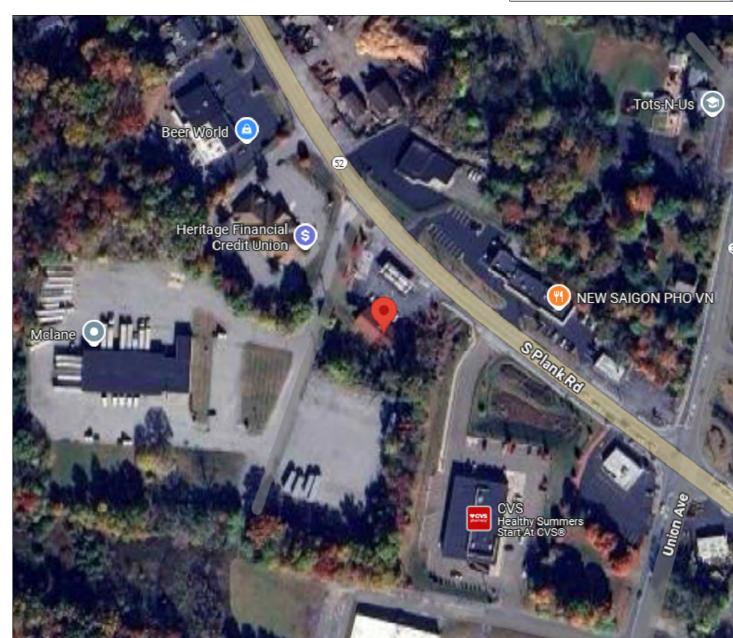


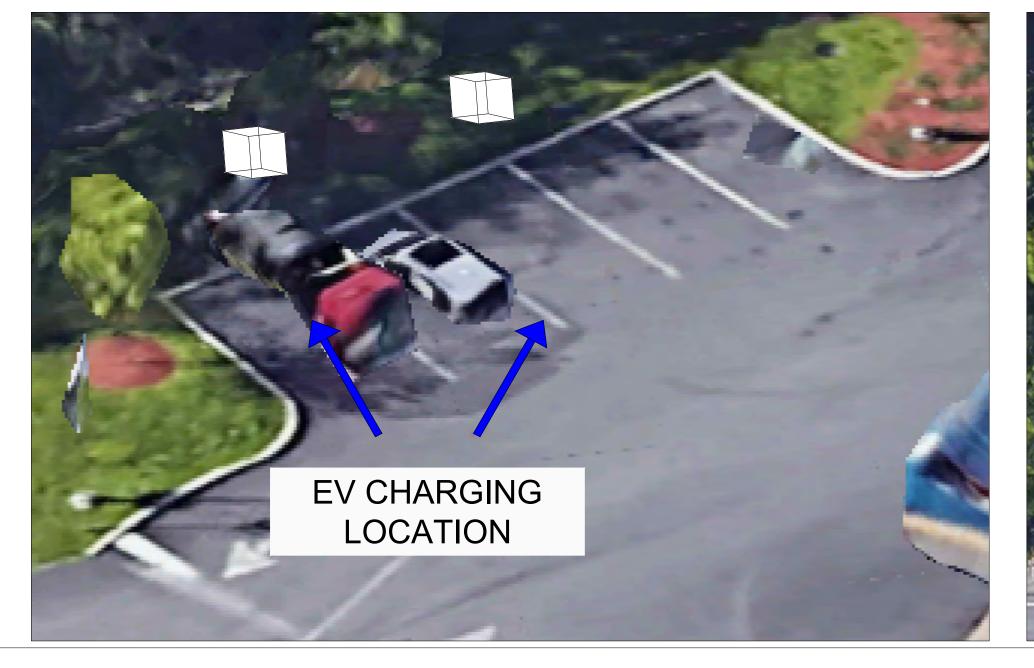
INSTALLATION OF ELECTRIC VEHICLE CHARGING EQUIPMENT 209 S PLANK RD, NEWBURGH, NY 12550

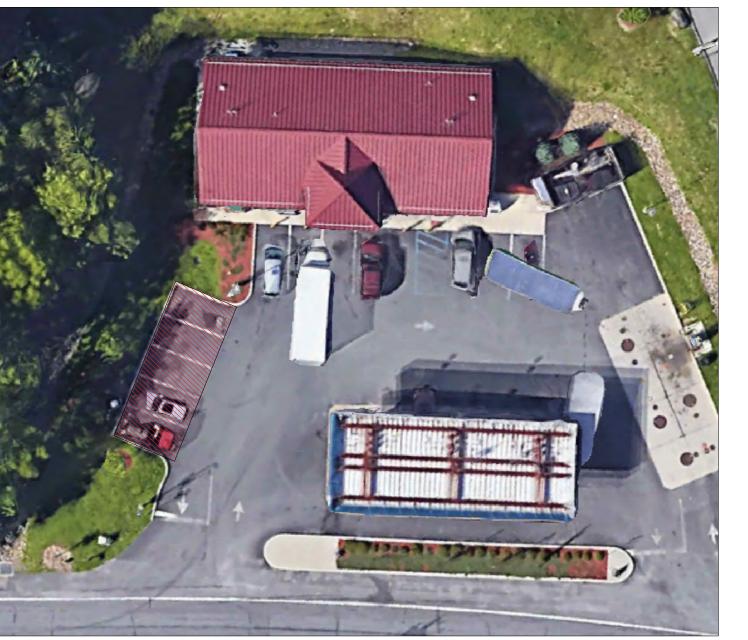


INSTALL CONDUITS AND ELECTRICAL WIRING		
INSTA	LL NEW DUAL PORT DISPENSER	
	MOV	
SHEET NUMBER	SHEET NAME	
E-100	COVER SHEET	
E-200	GENERAL NOTES	
E-201	GENERAL NOTES	
E-300	EXISTING CONDITIONS SITE PLAN	
E-301	PROPOSED SITE PLAN	
E-302	ELECTRICAL SITE PLAN	
E-400	DEMOLITION PLAN	
E-500	ELECTRICAL RISER DIAGRAM	
E-600	POWER DISTRIBUTION DIAGRAM	
E-700	EV CHARGER DETAILS	
E-701	EV CHARGER DETAIL	
E-800	DETAILS	
E-801	DETAILS	
E-802	TRANSFORMER DETAILS	
E-803	TRANSFORMER DETAILS	
E-804	TRANSFORMER DETAILS	
E-900	APROVED SITE PLAN	

PROJECT DESCRIPTION







CLIENT, PROPERTY OR OWNERS INFORMATION

SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

DESIGN CONSULTANT:

CONTRACTOR or VENDOR:



103 School St, Lindenhurst, NY 11757

LEGAL NOTES:

"It is a violation of the state education law for any person, unless he or she is acting under the direction of a licensed professional engineer to alter an item in anyway, on this drawing and/or in this specification in anyway. If any such item is altered, the altering engineer shall affix to the item his or her seal and the notation "altered by" followed by his or her signature and the date of such alteration, and a specific description of the alteration."

- Any errors and omissions in the drawing are to be checked by the general contractor and relayed to the architect/EOR
- Do not scale drawings
- All work shall comply with the local building code(s) and with requirements of local AHJ

KEY PLAN:

2.0 07.23.2025 REVISED AS REQUESTED

1.0 06.03.2025 INITIAL DESIGN LAYOUT

REV DATE DESCRIPTION

PROJECT NAME

ELECTRIC VEHICLE
CHARGING STATIONS
INSTALLATION AT

209 S PLANK RD
NEWBURGH, NY 12550

SHEET TITLE

E-100

COVER SHEET

SIGN AND SEAL

WHICH IS TESTED, APPROVED BY LOCAL AHJ AND READY FOR OPERATION BY OWNER/USER. THIS CONTRACTOR SHALL VISIT THE SITE AND ADJOINING AREAS. EXAMINE AND BE FAMILIAR WITH ALL EXISTING CONDITIONS AND DETERMINE THE IMPACT ON THE EXECUTION OF WORK OF THIS CONTRACT. THIS CONTRACTOR SHALL PERFORM THIS PRIOR TO THE SUBMISSION OF HER OR HIS PROPOSAL. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE AND LATER CLAIMS WILL NOT BE RECOGNIZED FOR EXTRA LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE.

THIS CONTRACTORS SHALL PROVIDE ALL ITEMS OF LABOR OR MATERIALS NOT SPECIFICALLY INDICATED, BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATIONS. e. THE CONTRACTORS SHALL COORDINATE THEIR WORK OR ADJUST SAME TO THAT OF OTHER TRADES, IN ORDER THAT

CONFLICTS IN SPACE LOCATIONS DO NOT OCCUR ANY APPARATUS, APPLIANCE, MATERIAL, OR WORK NOT SHOWN ON DRAWINGS, BUT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, OR ANY INCIDENTAL ACCESSORIES, OR MINOR DETAILS NOT SHOWN BUT NECESSARY TO MAKE THE WORK COMPLETE IN ALL RESPECTS AND READY FOR OPERATION, EVEN IF NOT PARTICULARLY SPECIFIED, SHALL BE PROVIDED WITHOUT ADDITIONAL EXPENSE TO THE OWNER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK WITH ITS COMPLETION AND FINAL ACCEPTANCE AND SHALL REPLACE ANY OF SAME, WHICH MAY BE DAMAGED, LOST OR STOLEN, WITHOUT ADDITIONAL COSTS TO THE OWNER. SPECIFICATIONS, IN GENERAL, DESCRIBE QUALITY AND CHARACTER OF MATERIALS AND EQUIPMENT. THE ACCOMPANYING DRAWINGS ARE INTENDED TO SHOW THE GENERAL ARRANGEMENT AND EXTENT OF WORK TO BE PERFORMED. THE LOCATIONS FOR EQUIPMENT AND MATERIAL AS SHOWN ON THE DRAWINGS ARE APPROXIMATE. IT SHALL BE UNDERSTOOD THAT THEY ARE SUBJECT TO SUCH MODIFICATION AS MAY BE FOUND NECESSARY TO MEET JOB CONDITIONS. SUCH CHANGES SHALL BE MADE BY THIS CONTRACTOR AT NO ADDITIONAL CHARGE.

SCALED AND INDICATED DIMENSIONS ARE APPROXIMATE AND ARE FOR ESTIMATING PURPOSES ONLY. BEFORE PROCEEDING WITH WORK, CHECK AND VERIFY ALL DIMENSIONS. ALL METHODS OF WORKMANSHIP AND CONSTRUCTION AND DETAILS OF SAME NOT SPECIFICALLY DESCRIBED HEREIN SHALL BE SUBJECT TO THE APPROVAL OF THE OWNER OR HIS REPRESENTATIVE.

MAKE ADJUSTMENTS THAT MAY BE NECESSARY OR REQUESTED IN ORDER TO RESOLVE SPACE PROBLEMS, PRESERVE HEADROOM, AND AVOID ARCHITECTURAL OPENINGS, STRUCTURAL MEMBERS AND WORK OF OTHER TRADES. TYPICAL DETAILS. WHERE SHOWN ON THE DRAWINGS. APPLY TO EACH AND EVERY ITEM OF THE PROJECT WHERE SUCH ITEMS ARE APPLICABLE. TYPICAL DETAILS ARE NOT REPEATED IN FULL ON THE PLANS, AND ARE DIAGRAMMATIC ONLY, BUT WITH THE INTENTION THAT SUCH DETAILS SHALL BE INCORPORATED IN FULL.

m. IT IS THE INTENT OF THE DRAWINGS AND SPECIFICATIONS TO PROVIDE A COMPLETE WORKABLE SYSTEM READY FOR THE OWNER'S OPERATION. ANY ITEM NOT SPECIFICALLY SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS, BUT NORMALLY REQUIRED TO CONFORM TO THE INTENT. ARE TO BE CONSIDERED A PART OF THE CONTRACT IF ANY PART OF SPECIFICATIONS OR DRAWINGS APPEARS UNCLEAR OR CONTRADICTORY, CONSULT THE ARCHITECT/DESIGN PROFESSIONAL FOR INTERPRETATION AND DECISION AS EARLY AS POSSIBLE DURING BIDDING PERIOD. DO NOT PROCEED WITH

WORK WITHOUT THE ARCHITECT/DESIGN PROFESSIONAL'S DECISION. . UNLESS SPECIFIED OTHERWISE HEREIN, CONTRACTOR SHALL BASE HER/HIS BID PROPOSAL WITH ALL WORK TO BE PERFORMED ON A STRAIGHT TIME NORMAL WORKING DAY.

p. ANY QUESTIONS OR DISAGREEMENTS ARISING AS TO THE TRUE INTENT OF THIS SPECIFICATION OR THE DRAWINGS OR THE KIND AND QUALITY OF WORK REQUIRED THEREBY SHALL BE DECIDED BY THE ARCHITECT/DESIGN PROFESSIONAL, WHOSE INTERPRETATIONS THEREOF SHALL BE FINAL, CONCLUSIVE, AND BINDING ON ALL PARTIES. IN CASE OF DISAGREEMENT BETWEEN DRAWINGS AND SPECIFICATIONS, OR WITHIN EITHER DOCUMENT ITSELF, THE BETTER

QUALITY, GREATER QUANTITY OR MORE COSTLY WORK SHALL BE INCLUDED IN THE CONTRACT PRICE AND THE MATTER REFERRED TO THE ARCHITECT/DESIGN PROFESSIONAL'S ATTENTION FOR DECISION AND/OR ADJUSTMENT. IF DIRECTED BY THE ARCHITECT/DESIGN PROFESSIONAL, WITHOUT EXTRA CHARGE, MAKE REASONABLE MODIFICATIONS IN THE LAYOUT AS NEEDED TO PREVENT CONFLICT WITH WORK OF OTHER TRADES OR FOR PROPER EXECUTION OF THE WORK. ALL WORK SHOWN IN THE DRAWINGS AND SPECIFICATIONS SHALL BE INCLUDED UNDER THE BASE BID, EXCEPT WHERE THERE IS SPECIFIC REFERENCE TO EXCLUSIONS AND INCORPORATED IN OTHER QUOTATIONS

THIS SECTION OF THE SPECIFICATIONS COVERS THE ELECTRICAL SYSTEMS OF THE PROJECT. IT INCLUDES WORK PERFORMED BY THE ELECTRICAL TRADES AS WELL AS TRADES NOT NORMALLY CONSIDERED AS ELECTRICAL TRADES. PROVIDE ALL INCIDENTALS, EQUIPMENT, APPLIANCES, SERVICES, HOISTING, SCAFFOLDING, SUPPORTS, TOOLS, SUPERVISION, LABOR CONSUMABLE ITEMS, FEES, LICENSES, ETC., NECESSARY TO PROVIDE COMPLETE SYSTEMS. PERFORM START-UP AND

CHECKOUT ON EACH ITEM AND SYSTEM TO PROVIDE FULLY OPERABLE SYSTEMS. EXAMINE AND COMPARE THE ELECTRICAL DRAWINGS AND SPECIFICATIONS WITH THE DRAWINGS AND SPECIFICATIONS OF OTHER TRADES, AND REPORT ANY DISCREPANCIES BETWEEN THEM TO THE ARCHITECT/DESIGN PROFESSIONAL AND OBTAIN FROM HIM WRITTEN INSTRUCTIONS FOR CHANGES NECESSARY IN THE WORK. AT TIME OF BID, THE MOST STRINGENT REQUIREMENTS MUST BE INCLUDED IN SAID BID.

W. INSTALL AND COORDINATE THE ELECTRICAL WORK IN COOPERATION WITH OTHER TRADES INSTALLING INTERRELATED WORK BEFORE INSTALLATION, MAKE PROPER PROVISIONS TO AVOID INTERFERENCES IN A MANNER APPROVED BY THE ARCHITECT/DESIGN PROFESSIONAL. ALL CHANGES REQUIRED IN THE WORK OF THE CONTRACTOR, CAUSED BY HIS NEGLECT TO DO SO, SHALL BE MADE BY HIM AT HIS OWN EXPENSE. ALL SPECIAL AND SUPPLEMENTARY CONDITIONS AND OTHER DOCUMENTS SUCH AS DELINEATED UNDER THE

"OWNER-CONTRACTOR AGREEMENT" ARE HEREBY MADE A PART OF THESE SPECIFICATIONS.

B. LAWS, ORDINANCES, PERMITS AND FEES a. ALL INDICATED AND SPECIFIED INSTALLATION SHALL BE PERFORMED IN COMPLIANCE WITH LOCAL APPLICABLE GOVERN CODES. THE AMERICANS WITH DISABILITIES ACT (ADA), STANDARDS AND EQUIPMENT/MATERIAL MANUFACTURER INSTALLATION MANUAL. b. ALL ELECTRIC WORK IS TO BE PERFORMED BY ONLY BY A LICENSED ELECTRICIAN WITH VALID LICENSED FOR AREA WHERE

THIS CONTRACTOR IS REQUIRED PREPARE ALL NECESSARY PERMIT FILING DOCUMENTS AND FILED. THOSE WITH LOCAL AUTHORITY HAVING JURISDICTION, ALL FILING DOCUMENTS (DRAWINGS, FORMS, etc.) SHALL BE PREPARED. IN FULL COMPLIANCE WITH THE LOCAL AHJ REQUIREMENTS. ALL COST ASSOCIATED WITH THE FILING PROCESS IS THIS CONTRACTOR

d. NO INSTALLATION WORK SHALL START, UNTIL PERMIT IS OBTAINED AND CLEARANCE IS RECEIVED FROM THE RELEVANT LOCAL BUILDING DEPARTMENT (AHJ) OR OTHER GOVERN BODY. SHOULD ANY CHANGE IN DRÁWINGS OR SPECIFICATIONS BE REQUIRED TO COMPLY WITH GOVERNMENTAL REGULATIONS. THE CONTRACTOR SHALL NOTIFY ARCHITECT/DESIGN PROFESSIONAL PRIOR TO EXECUTION OF THE WORK. THE WORK SHALL BE CARRIED OUT ACCORDING TO THE REQUIREMENTS OF SUCH CODE IN ACCORDANCE WITH THE INSTRUCTION OF THE

ARCHITECT/DESIGN PROFESSIONAL AND AT NO ADDITIONAL COST TO THE OWNER. THE PROVISIONS OF STANDARDS, CODES, LAWS, ORDINANCES, ETC., SHALL BE CONSIDERED MINIMUM REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THEIR PUBLISHED REQUIREMENTS, THE ARCHITECT/DESIGN PROFESSIONAL SHALL DETERMINE WHICH IS TO BE FOLLOWED AND HIS DECISION SHALL BE BINDING. SPECIFIC REQUIREMENTS OF THIS SPECIFICATION OR THE

DRAWINGS. WHICH EXCEED THE PUBLISHED REQUIREMENTS. SHALL TAKE PRECEDENCE OVER THEM. NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) STANDARDS OF THE ISSUE IN EFFECT ON DATE OF THE INVITATION FOR BIDS SHALL FORM A PART OF THIS SPECIFICATION, UNLESS THEY CONFLICT WITH LOCAL CODES. . ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE RULES OF LOCAL APPLICABLE CODES AND RECOMMENDATIONS OF THE NATIONAL FIRE PROTECTION ASSOCIATION, WITH ALL REQUIREMENTS OF LOCAL UTILITY

COMPANIES, WITH THE RECOMMENDATIONS OF THE FIRE INSURANCE RATING ORGANIZATION HAVING JURISDICTION, AND WITH THE REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION AT THE COMPLETION OF THE WORK, THE CONTRACTOR SHALL SECURE AND DELIVER TO THE ARCHITECT/DESIGN PROFESSIONAL, "CERTIFICATE OF APPROVAL" FROM THE VARIOUS LOCAL VILLAGE, TOWN, COUNTY, CITY, STATE BUREAUS, FIRE

MARSHAL, FIRE UNDERWRITERS, LOCAL BUILDING DEPARTMENT AND ALL DEPARTMENTS HAVING JURISDICTION. INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS, (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS) IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS. ORDINANCES. RULES AND REGULATIONS, WHETHER OR NOT SHOWN ON DRAWINGS AND/OR SPECIFIED.(7) GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL GOVERNMENTAL TAXES, FEES, AND OTHER COSTS IN CONNECTION WITH THE WORK; FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS, AND OBTAIN ALL NECESSARY APPROVALS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION: OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR THE WORK AND DELIVER TO

THE ARCHITECT BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK. THE CONTRACTOR SHALL ESTABLISH. ENFORCE AND IMPLEMENT ALL SAFETY. HEALTH AND ENVIRONMENTAL PROTECTION MEASURES DURING PERFORMANCE OF THE WORK CONSISTENT WITH THE REQUIREMENTS OF THE WILLIAMS-STEIGER OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (LATEST REVISION), OTHER RULES, LAWS, STATUTES, CODES, ORDINANCES, REGULATIONS AND OTHER REQUIREMENTS OF ANY AND ALL GOVERNMENTAL OR QUASI-GOVERNMENTAL AUTHORITIES HAVING JURISDICTION OVER THE WORK, THE PROJECT OR THE PROJECT SITE.

EQUIPMENT, FIXTURES, MATERIAL AND INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT. THE SERVING UTILITY COMPANIES. THE NATIONAL ELECTRICAL CODE. NATIONAL ELECTRICAL SAFETY CODE. LIFE SAFETY CODE, STATE BUILDING CODE, OCCUPATIONAL SAFETY AND HEALTH ACT, AMERICANS WITH DISABILITIES ACT AND APPLICABLE NATIONAL, STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS. m. ALL ELECTRICAL WORK AND MATERIALS SHALL COMPLY WITH THE OWNER'S STANDARDS AND ELECTRICAL SYSTEMS

n. ALL LOCAL FEES, PERMITS, AND SERVICES OF INSPECTION AUTHORITIES SHALL BE OBTAINED AND PAID FOR BY THIS CONTRACTOR. THE CONTRACTOR SHALL COOPERATE FULLY WITH LOCAL COMPANIES WITH RESPECT TO THEIR SERVICES. CONTRACTOR SHALL INCLUDE IN HIS BID ANY COSTS TO BE INCURRED RELATIVE TO POWER SERVICE (PRIMARY AND/OR SECONDARY) AND TELEPHONE SERVICE.

EXAMINATION OF EXISTING CONDITIONS a. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE SITE AND/OR PRESENT BUILDINGS AFFECTED BY THIS WORK SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL ATTEND THE EXECUTION OF THE WORK, BEFORE SUBMITTING PROPOSALS. CONTRACTOR SHALL CAREFULLY EXAMINE THE PRESENT LIGHTING AND RECEPTACLE INSTALLATION METHODS WHICH ARE TO BE EXTENDED FOR THE NEW WORK.

SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS

FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN

FORESEEN HAD SUCH EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED. D. TIME AND MANNER OF EXECUTION OF WORK

a. ALL WORK SHALL BE DONE AS EXPEDITIOUSLY AS POSSIBLE AND IN SUCH A MANNER AS NOT TO CAUSE INTERFERENCE OR INTERRUPTION TO THE BUSINESS OF THE OWNER. SUBMIT SCHEDULE FOR REVIEW AND APPROVAL. THE CONTRACTOR SHALL NOT OBSTRUCT ENTRANCES OR PASSAGES ON THE OWNER'S PREMISES.

TRANSPORTATION OF MATERIAL INTO AND THROUGH THE BUILDING WILL BE SUBJECT TO REVIEW AND APPROVAL OF THE OWNER AND MAY BE LIMITED TO RESTRICTED TIMES. THE OWNER WILL MAKE AVAILABLE TO THE CONTRACTOR AN ELEVATOR FOR HANDLING MATERIALS, RUBBISH. ETC. AT SUCH

TIMES WHEN IT IS CONVENIENT TO THE OCCUPANTS OF THE BUILDING. THE CONTRACTOR SHALL PROTECT THE INTERIOR OF THE CAB AGAINST DAMAGE AND PROVIDE LABOR TO HANDLE MATERIALS IN AND OUT OF THE ELEVATOR AND OUT OF THE d. ALL MATERIALS TO BE REMOVED ARE TO BE LEGALLY DISPOSED OF, OFF SITE, EACH DAY EXCEPT WHERE OTHERWISE NOTED.

EXTREME CARE IS TO BE TAKEN TO AVOID SPILLAGE OF DEBRIS e. THIS WORK IS TO BE PERFORMED TO PROTECT ADJOINING AREAS, EQUIPMENT, AND OCCUPANTS FROM DAMAGE AND HARM AND TO PRODUCE MINIMUM DISTURBANCE TO OPERATIONS. PROVIDE ALL PROTECTIVE METHODS AND SCHEDULE WORK WITH

ANY CONSTRUCTION TO BE LEFT IN PLACE THAT IS WEAKENED OR DAMAGED SHALL BE RESTORED TO THE CONDITION WHICH EXISTED PRIOR TO SUCH DAMAGE CONSTRUCTION THAT IS TO BE REPLACED AFTER REMOVAL WORK SHALL BE REPLACED WITH CONSTRUCTION OF EQUAL STRENGTH AND DESIGN.

a. ALL WORK SHALL BE GUARANTEED AGAINST DEFECTS FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF THE INSTALLATION AND ANY PORTIONS OF THE WORK WHICH DEVELOP DEFECTS DURING THAT TIME SHALL BE REPLACED OR REPAIRED IN A MANNER SATISFACTORY TO THE OWNER

b. ALL MANUFACTURER'S WARRANTIES FOR EQUIPMENT EXTENDING BEYOND THE GUARANTEE PERIOD SHALL BE TURNED OVER

REPLACE OR REPAIR TO THE SATISFACTION OF THE OWNER ANY AND ALL DAMAGE DONE TO THE BUILDING OR ITS CONTENTS OR TO THE WORK OF OTHER TRADES IN CONSEQUENCE OF WORK PERFORMED IN FULFILLING GUARANTEE. d. THIS ARTICLE IS GENERAL IN NATURE AND WILL NOT WAIVE STIPULATIONS OF OTHER CLAIMS THAT SPECIFY GUARANTEE

AS REQUIRED & CHARGE THE COST TO THE CONTRACTOR. THE DATE OF ACCEPTANCE SHALL BE THE DATE OF FINAL PAYMENT BY THE OWNER OR NOTICE OF ACCEPTANCE BY THE OWNER WHICHEVER IS EARLIER

PERIODS IN EXCESS OF ONE (1) YEAR. IN THE EVENT DEFAULT ON THIS GUARANTEE, THE OWNER MAY HAVE SUCH WORK DONE

a. ALL CUTTING AND PATCHING SHALL BE DONE UNDER ANOTHER SECTION. FURNISH THE SIZES AND LOCATIONS OF ALL CHASES AND OPENINGS REQUIRED FOR THE INSTALLATION FOR THIS WORK BEFORE THE WALLS. FLOORS AND PARTITIONS ARE BUILT PROVIDE THE LABOR AND MATERIALS FOR ALL WORK INCLUDED UNDER THE CONTRACT OR SUBCONTRACT IN AMPLE TIME AND SUFFICIENT QUANTITIES SO THAT ALL OF THE WORK OF THE CONTRACT OR SUBCONTRACT MAY BE INSTALLED IN PROPER SEQUENCE TO AVOID UNNECESSARY CUTTING OF THE FLOORS AND WALLS.

c. ANY CUTTING AND PATCHING REQUIRED, DUE TO THE FAILURE TO COMPLY WITH THE ABOVE PROVISIONS, SHALL BE DONE AT NO EXTRA COST TO OWNER. SUCH CUTTING AND PATCHING SHALL BE DONE UNDER DIVISION ONE, AS APPROVED BY THE

d. THE WORK SHALL BE CAREFULLY LAID OUT IN ADVANCE. WHERE CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS, WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES IS NECESSARY FOR THE PROPER INSTALLATION, SUPPORT OR ANCHORAGE OF RACEWAY, OUTLETS OR OTHER EQUIPMENT, THE WORK SHALL BE CAREFULLY DONE. ANY DAMAGE TO THE BUILDING, PIPING, EQUIPMENT OR DEFACED FINISH PLASTER, WOODWORK, METALWORK, ETC. SHALL BE REPAIRED BY SKILLED MECHANICS OF THE TRADES INVOLVED AT NO ADDITIONAL COST TO THE OWNER. THIS CONTRACTOR SHALL DO ALL CUTTING. CHASING AND ROUGH PATCHING FOR INSTALLATION OF HIS WORK.

UNLESS ASSIGNED TO OTHER CONTRACTOR(S) AS PART OF CONTRACT AGREEMENT, THE GENERAL CONTRACTOR SHALL FINISH PATCHING AND REPAIRS. g. ALL CUTTING AND DRILLING SHALL BE MACHINE CUT WITH POWER DRIVEN TOOLS. CONDUIT PENETRATIONS SHALL BE CORE

h. WHERE CONDUITS, MOUNTING CHANNELS, OUTLET, JUNCTION, OR PULL BOXES ARE MOUNTED ON A PAINTED SURFACE, OR A SURFACE TO BE PAINTED, THEY SHALL BE PAINTED TO MATCH THE SURFACE. WHENEVER SUPPORT CHANNELS ARE CUT, THE BARE METAL SHALL BE COLD GALVANIZED.

G. COORDINATION WITH OTHER TRADES

a. PRIOR TO STARTING ANY WORK, PURCHASE OF EQUIPMENT, ETC., COORDINATE WORK WITH OTHER TRADES. CONFER WITH OTHER CONTRACTORS WHOSE WORK MIGHT AFFECT THIS INSTALLATION, AND ARRANGE ALL PARTS OF THIS WORK AND EQUIPMENT IN PROPER SEQUENCE AND RELATION TO THE WORK AND EQUIPMENT OF OTHERS, WITH THE BUILDING CONSTRUCTION AND WITH ARCHITECTURAL FINISH SO THAT IT WILL HARMONIZE IN SERVICE AND APPEARANCE. IN THE EVENT THERE IS A CONFLICT IN COORDINATION BETWEEN TRADES, THE OWNER OR HIS REPRESENTATIVE WILL RESOLVE IT.

H. TRENCHING, EXCAVATING AND STRUCTURES

a. PRIOR TO ANY TRENCHING EXCAVATION, SOIL BORINGS AND/OR UNDERGROUND EXPLORATION, THE CONTRACTOR SHALL NOTIFY ALL UTILITIES UNDER NEW JERSEY STATE INDUSTRIAL CODE

FOUNDATION, REBAR AND CONCRETE SLAB SHALL BE INSTALLED UNDER CONTROLLED INSPECTION IT SHALL BE ASSUMED THAT THE EXISTING UTILITIES OR OTHER UNDERGROUND LINES IN AND ADJACENT TO THE CONSTRUCTION WORK ARE PRESENTLY IN PERFECT WORKING ORDER. IN THE EVENT OF THE EXISTING UTILITY OR LINES BREAKDOWNS IN THE CONSTRUCTION AREA, THIS CONTRACTOR SHALL MAKE IMMEDIATE REPAIRS WITHOUT COST TO THE

d. ALL FIELD WORK SHOULD PROCEED ONLY AFTER EACH EXISTING UNDERGROUND UTILITY OR SERVICE LINES IN CONSTRUCTION AREA ARE CLEARLY MARKED BY THIS CONTRACTOR. THEN WORK IS TO PROCEED W/ CONTROLLED EXCAVATION (WITH HAND.) DIGGING TO EXPOSE KNOWN UTILITIES) UNTIL THE AREA HAS BEEN OPENED SUFFICIENTLY TO UTILIZE MASS EXCAVATION. e. SHORING IS REQUIRED IF ANY EXCAVATION IS GREATER THAN 5 FT. DEEP AND SAFE SLOPE OF SIDE WALLS IS NOT POSSIBLE, OR

IF REQUIRED BY SOIL CONDITIONS. CONSTRUCTION BARRICADES WITH LIGHTS AND FLAGS ARE REQUIRED ALL AROUND OPEN EXCAVATIONS AND BE PROVIDED BY THIS CONTRACTOR.

a. RESTORE TO ITS ORIGINAL CONDITION, WITHOUT EXTRA PAYMENT, ANY OF THE OWNER'S PROPERTY THAT BECOMES DAMAGED

DUE TO THE NEGLIGENCE OF EMPLOYEES OR AGENTS OF THE CONTRACTORS. SUCH REPAIRS SHALL BE ACCEPTABLE TO THE OWNER. INCLUDE ALL COSTS IN THE BID PRICE FOR PERFORMING SHUTDOWNS ON PREMIUM TIME. MODULES, ETC.

a. WHEN THE INSTALLATION OF NEW WORK REQUIRES THE SHUTDOWN OF EXISTING OPERATING SYSTEMS, THE CONNECTION OF THE NEW WORK SHALL BE PERFORMED ONLY AFTER GIVING AT LEAST 72 HOURS NOTICE TO, AND OBTAINING THE WRITTEN AUTHORIZATION OF, THE OWNER.

a. SUBMIT REQUIRED OR REQUESTED SHOP DRAWINGS OF ALL EQUIPMENT, DEVICES, COMPONENTS, CONDUCTORS, CONDUITS, FITTINGS AND ASSEMBLY AND OBTAIN WRITTEN REVIEW COMMENTS FROM ENGINEER OF RECORD, BEFORE ORDERING OR INSTALLING ANY MATERIAL OR EQUIPMENT. ALL SUBMITTAL TO BE IN DIGITAL FORM (PDF FILE FORMAT).

K. AS-BUILT DRAWINGS

a. UPON COMPLETION OF INSTALLATION, THIS CONTRACTOR SHALL FURNISH "AS-BUILT" DRAWINGS CONSISTING OF A COMPLETE SET OF AutoCAD AND PDF FORMAT DRAWINGS, INDICATING IN A NEAT AND ACCURATE MANNER, A COMPLETE RECORD OF ALL COMPLETE INSTALLATION WORK AND CHANGES TO THE ORIGINAL DESIGN OF THE WORK.

a. FURNISH ADEQUATE LIABILITY INSURANCE AND BONDING AS REQUIRED BY THE OWNER, PRIOR ANY WORK. M. TEMPORARY LIGHT AND POWER

a. WHERE NECESSARY THIS CONTRACTOR SHALL PROVIDE TEMPORARY LIGHT AND POWER FOR THE NEW CONSTRUCTION AREAS. IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND ACCEPTED STANDARDS ESTABLISHED BY O.S.H.A. ENERGY COSTS WILL

a. ALL PARTS OF THE WORK AND ASSOCIATED EQUIPMENT SHALL BE TESTED AND ADJUSTED TO WORK PROPERLY AND BE LEFT IN PERFECT OPERATING CONDITION; THIS SHALL INCLUDE ELECTRICAL MEGGER TESTS BETWEEN PHASES AND BETWEEN EACH PHASE AND GROUND OF ALL FEEDERS AND SUB-FEEDERS. CORRECT DEFECTS DISCLOSED BY THESE TESTS WITHOUT ANY ADDITIONAL COST TO THE OWNER. REPEAT TESTS ON REPAIRED OR REPLACED WORK. ALL NEWLY INSTALLED EQUIPMENT SHALL BE TESTED PER APPLICABLE STANDARDS AND MANUFACTURER INSTALLATION MANUAL.

a. ALL EQUIPMENT SHALL BE BOLTED TO STRUCTURE AND/OR TO GROUND TO ALLOW FOR MINIMUM 0.5G OF ACCELERATION. LIFE SAFETY EQUIPMENT, PIPS AND CONDUITS SHALL BE BOLTED TO STRUCTURE TO ALLOW FOR 1.0G OF ACCELERATION. BOLT

POINTS AND DIAMETER OF INSERTS SHALL BE SUBMITTED AND VERIFIED AS PART OF THE CONTRACTOR'S SUBMISSION FOR EACH PIECE OF EQUIPMENT AND CERTIFIED BY A LICENSED CIVIL OR STRUCTURAL ENGINEER. b. ALL STRUCTURALLY SUSPENDED OVERHEAD EQUIPMENT SHALL BE FOUR-POINT INDEPENDENTLY BRACED WITH TYPE II SEISMIC RESTRAINING SYSTEM

NOTE: IF EQUIPMENT IS RIGIDLY FASTENED TO CONDUIT, DIAMETER AND DISTANCE REQUIREMENT FROM SUPPORT APPLIES. c. INSTALL SEISMIC RESTRAINING SYSTEM TYPE II: TAUT FOR OVERHEAD SUSPENDED UNISOLATED EQUIPMENT, AND SLACK WITH CABLE DEFLECTION FOR ISOLATED SYSTEMS d. SEISMICALLY RESTRAIN ALL CONDUITS WITH CENTER BRACING OR TYPE II RESTRAINING SYSTEM IN ACCORDANCE WITH

SMACNA GUIDELINES TO COMPLY WITH THE LATEST ADDITION OF THE BOCA CODE. e. SEISMIC RESTRAINTS ARE NOT REQUIRED FOR THE FOLLOWING e.a. CONDUIT IN MECHANICAL EQUIPMENT ROOM THAT IS LESS THAN 1-1/4" INTERNAL DIAMETER.

ALL OTHER ELECTRICAL CONDUIT LESS THAN 2-1/2" INTERNAL DIAMETER. ALL CONDUIT SUSPENDED BY INDIVIDUAL HANGERS 12" IN LENGTH OR LESS FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE STRUCTURAL SUPPORT FOR THE HANGER.

SEISMICALLY SUPPORT ALL NON-ISOLATED FLOOR AND WALL MOUNTED EQUIPMENT, INCLUDING TRANSFORMERS, SWITCHGEAR, EMERGENCY GENERATORS ETC. ALL CEILING-MOUNTED LIGHTING FIXTURES AND DEVICES ARE TO BE INDEPENDENTLY HUNG AND CABLE BRACED UTILIZING S.R. TYPE III CABLES. FIXTURE, PART OF LIGHTING GRIDS SHALL MEET LOCAL CODES FOR SUSPENSION AND BE FOUR-POINT INDEPENDENTLY CABLE BRACED TO DECK UNLESS A.T.C. CEILING MEETS SEISMIC ZONE II REQUIREMENTS. IF THIS IS MET,

A. PERFORM ALL WORK WHEN AND AS DIRECTED. SUBMIT SCHEDULE TO OWNER FOR ACCEPTANCE.

EARTHQUAKE CLIPS SHALL SECURE FIXTURE TO T-BAR CONSTRUCTION.

REMOVE ALL EQUIPMENT SHOWN TO BE REMOVED. MAINTAIN CONTINUOUS SERVICE ON FEEDERS, CIRCUITS OR PARTIAL CIRCUITS, AND OUTLETS AFFECTED BY THIS WORK, EXCEPT

WHERE OWNER GIVES WRITTEN PERMISSION FOR OUTAGE FOR SPECIFIED TIME. ALL WORK REQUIRING SHUT DOWN OF EXISTING SYSTEMS SHALL BE PERFORMED ON OVERTIME AT HOURS AS APPROVED BY THE OWNER AND AT NO ADDITIONAL COST TO THE OWNER. SUBMIT SCHEDULE OF REQUIRED OUTAGES TO THE OWNER FOR APPROVAL. PERFORM WORK IN A MANNER TO MINIMIZE SHUTDOWN TIME PROVIDE RECONNECTIONS AND TEMPORARY INSTALLATIONS AS REQUIRED; REMOVE ALL AT JOB COMPLETION. E. TAKE POSSESSION AND REMOVE FROM THE PREMISES ALL ABANDONED MATERIALS AND EQUIPMENT UNLESS SPECIFIED AS

RETURNABLE TO THE OWNER; IN WHICH CASE, REMOVE WITHOUT DAMAGE ALL SUCH EQUIPMENT AND TURN OVER AND DELIVER TO OWNER AT LOCATION DESIGNATED BY THE OWNER. ALL REQUIREMENTS OF GOVERNING AUTHORITIES SHALL BE COMPLIED WITH IN THE REMOVING AND DISPOSING OF ALL AND ANY MATERIALS ENCOUNTERED, INCLUDING BALLASTS, LAMPS, SMOKE DETECTORS, BATTERIES AND ANY OTHER MATERIALS WHICH REQUIRE RECYCLING OR SPECIAL HANDLING AND DISPOSAL. F. CUT BACK TO FLOOR, WALL, OR CEILING AND PLUG ENDS OF CONCEALED CONDUITS MADE OBSOLETE BY ALTERATIONS TO PERMIT REFINISHING SURFACES. REMOVE EXPOSED CONDUITS, WIREWAYS, OUTLET BOXES, HANGERS AND DEVICES MADE OBSOLETE BY

THIS WORK UNLESS DESIGNATED SPECIFICALLY TO REMAIN. G. EXISTING CONCEALED CONDUITS NOT INTERFERING WITH THE WORK OF THIS OR ANY OTHER TRADE MAY REMAIN; HOWEVER, WIRING SHALL BE REMOVED FROM PANELBOARDS OR SOURCE OF POWER AND ENDS TAPED. NO UNUSED LIVE WIRING SHALL BE

H. ALL EXISTING PANELS AFFECTED SHALL HAVE THEIR DIRECTORIES CORRECTED FOR NEW WORK, AND EXISTING REMAINING CIRCUITS VERIFIED. NEW TYPEWRITTEN DIRECTORIES SHALL BE PROVIDED.

A. EXTEND AND RECONNECT EXISTING ELECTRIC SERVICES AS INDICATED ON THE DRAWINGS, IN TIME SEQUENCE AS DIRECTED BY COORDINATED WITH THE OWNER.

4. IDENTIFICATION OF EQUIPMENT AND COMPONENTS

 PROVIDE FIXED IDENTIFICATION OF ALL DISTRIBUTION EQUIPMENT (NAMEPLATES) AND CONDUCTORS. B. UNLESS OTHERWISE NOTED, NAMEPLATES SHALL BE BLACK BAKELITE PLATES WITH WHITE ENGRAVED UPPER CASE LETTERS FNCLOSED BY WHITE BORDER ON BEVELED EDGE.

C. ALL NAMEPLATES MUST BE ENGRAVED AND MUST BE SECURED WITH RIVETS, BRASS OR CADMIUM PLATE SCREWS. THE USE OF DYMO TYPE OR THE LIKE IS UNACCEPTABLE.

ALL WIRING SHALL BE RUN IN CONDUIT. MINIMUM SIZE CONDUIT SHALL BE 3/4", EXCEPT AS OTHERWISE INDICATED. B. CONDUIT SHALL BE MADE OF STANDARD RIGID PIPE, AND SHALL BE ALUMINUM WHERE PERMITTED BY CODE. WHERE ALUMINUM IS NOT PERMITTED BY CODE, USE RIGID STEEL OR IMC CONDUIT. C. ELECTRIC METALLIC TUBING (EMT) MAY BE USED IN DRY LOCATIONS FOR BRANCH CIRCUITING AND/OR IT DATA RACEWAYS.

D. TYPE AC (BX) OR MC WITH GREEN INSULATED GROUND WIRING MAY BE USED CONCEALED IN DRY LOCATIONS FOR BRANCH CIRCUIT WORK ONLY WHERE PERMITTED BY CODE E. FOR UNDERGROUND ELECTRICAL INSTALLATIONS, USE FIBERGLASS (RTRC) CONDUIT AND/OR PVC SCHEDULE 80 WITH LISTED FITTINGS AND CONNECTIONS. THESE SHALL BE CHANGED TO RMC WHILE TRANSITIONING FROM UNDERGROUND TO ABOVE GRADE. THE CONDUITS SHALL BE BURIED DEPTH EXCEEDING NEC REQUIREMENTS, UNLESS OTHERWISE INDICATED ON DRAWINGS.

F. WIRING FOR LIFE SAFETY INSTALLATION, INCLUDING EMERGENCY LIGHTING, EMERGENCY COMMUNICATION, ALARMS, etc. SHALL BE

WIRE IN RIGID METAL CONDUIT. G. MAKE FINAL CONNECTION FROM MOTOR STARTING SWITCHES TO MOTOR BY MEANS OF CONDUCTORS IN FLEXIBLE STEEL CONDUIT. USE "SEALTITE" IN WET OR DAMP LOCATIONS ONLY.

H. HANGERS, SUPPORTS AND SLEEVES SHALL BE AS ACCEPTABLE TO GOVERN CODES. SUPPORT RISER CONDUIT AT EACH FLOOR, AND ALL OTHER CONDUIT ON EACH SIDE OF BENDS AND NOT GREATER THAN 8'-0" ON CENTERS. DO NOT SUPPORT COMMUNICATIONS, SIGNALING AND SIMILAR TYPE WIRING FROM CONDUITS.

I. COORDINATE CONDUIT RUNS WITH EXISTING AND NEW WORK. CONCEAL ALL CONDUIT AND OUTLET BOXES IN FINISHED AREAS

UNLESS NOTED OTHERWISE

RUN CONDUITS CLEAR OF SHAFTS, OPENINGS, CABLE SLOTS AND TELEPHONE RACKS. DO NOT SUPPORT CONDUITS OR RACEWAYS FROM TELEPHONE FRAMES, CABLE RACKS OR SUPERSTRUCTURES.

K. TERMINATE EACH CONDUIT WITH TWO LOCKNUTS, ONE INSIDE AND ONE OUTSIDE AND A BUSHING. USE ALUMINUM LOCKNUTS FOR ALUMINUM CONDUIT, AND MALLEABLE IRON OR GALVANIZED OR CADMIUM PLATED STEEL FOR STEEL CONDUITS. BUSHINGS SHALL BE INSULATED PLASTIC TYPE, RATED AT NOT LESS THAN 150 °C, T&B SERIES 510 OR AS ACCEPTABLE. WHERE CONDUITS LARGER THAN 1" SIZE ARE TERMINATED, LOCKNUTS SHALL BE THE BONDING TYPE T&B SERIES 106, OR AS ACCEPTABLE. IF ALUMINUM BONDING LOCKNUTS ARE NOT AVAILABLE, USE A BONDING WEDGE IN ADDITION UNDER THE INTERIOR ALUMINUM LOCKNUT. WHERE CONDUITS LARGER THAN 1" SIZE TERMINATE IN ECCENTRIC OR CONCENTRIC KNOCKOUTS AND WHERE ALL OF THE

KNOCKOUT RINGS HAVE NOT BEEN REMOVED, INSULATED GROUNDED BUSHINGS SHALL BE USED. INSULATED GROUNDED BUSHINGS SHALL BE CAST, THREADED TYPE EQUIPPED WITH A LUG FOR GROUNDING. UPPER EDGE SHALL HAVE A NYLON RING OR A BAKELITE RING WHICH IS MOLDED INTO THE BUSHING. SIZE GROUND LUG TO TAKE CONDUCTOR SIZED ACCORDING TO CODE WITH A MINIMUM SIZE OF NO. 12. M. WHERE ELECTRICAL METALLIC TUBING IS INSTALLED. THE CONNECTORS AND COUPLINGS SHALL BE THE NYLON INSULATED THROAT

TYPE AS MANUFACTURED BY THE THOMAS & BETTS CO., SERIES 5120 AND 4123 RESPECTIVELY, OR AS ACCEPTABLE. ON TUBING LARGER THAN 1" USE BONDING LOCKNUTS AS DESCRIBED ABOVE FOR RIGID CONDUIT. WHERE FLEXIBLE METALLIC CONDUIT OR TYPE AC OR MC CABLE IS INSTALLED, CONNECTORS SHALL BE THE "TITE BITE" TYPE WITH NYLON INSULATED THROATS AS MANUFACTURED BY THE THOMAS & BETTS CO., SERIES 3110 OR AS ACCEPTABLE. FOR AC OR MC

CABLE, INSTALL ANTI-SHORT BUSHINGS AND TERMINATE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. SUPPORT CABLES PER NEC. O. WHERE TERMINATING LIQUID TIGHT FLEXIBLE STEEL CONDUIT (SEALTITE), FITTING ASSEMBLY SHALL BE SEALING TYPE CONSISTING OF STEEL GLAND, NYLON RING AND GROUND CONE ON THE OUTSIDE AND A NYLON INSULATED THROAT FITTING ON THE INSIDE.

FITTINGS SHALL BE THOMAS & BETTS CO., SERIES 5331 OR AS ACCEPTABLE. WHERE PASSING THROUGH FIRE RATED FLOORS OR WALLS USE U.L. LISTED FIRE RATED FITTINGS WHICH WILL PREVENT THE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION, NELSON "FLAMESEAL" OR AS ACCEPTABLE OR UL APPROVED FIRE STOP SYSTEM. Q. HIGH AND LOW TENSION FLOOR FITTINGS SHALL MATCH EXISTING FITTINGS. USE NEMA 5-20 CONFIGURATION WIRING DEVICE IN

ALL WIRES AND CABLE SHALL BE COPPER TYPE THHN-THWN FOR FEEDERS AND FOR BRANCH CIRCUITS IN CONDUIT. NO WIRE SMALLER THAN #12 AWG SHALL BE USED FOR BRANCH CIRCUITS. ALL CONTROL CONDUCTORS SHALL BE #14 AWG.

CONDUCTORS #10 AND SMALLER IN SPADE LUGS. MAXIMUM NUMBER OF HOME RUNS IN A COMMON CONDUIT SHALL BE 3. A DEDICATED NEUTRAL SHALL BE RUN FOR EACH BRANCH CIRCUIT (SHARE NEUTRAL IS NOT ALLOWED).

CONNECTIONS FOR WIRE #8 AND SMALLER SHALL BE MADE WITH T&B "PIGGY PIGTAILS" OR AS ACCEPTABLE. TERMINATE STRANDED

D. ALL WIRES AND CABLES IN PULL, SPLICE AND CABLE SUPPORT BOXES, IN PANELS AND POINTS OF TERMINATION SHALL BE BUNDLED AND LACED BY CIRCUITS AND TAGGED USING NYLON TIEWRAP MATERIAL AND USING FLAME RESISTING TAGS OF ADHESIVE MATERIAL. TAGS SHALL IDENTIFY CABLES AND PIECES OF EQUIPMENT SERVED. TAGS SHALL BE T&B "TY-RAP" OR "E-Z-CODE" OR AS ACCEPTABLE.

ALL WIRING AND CABLE SHALL BE COLOR CODED AS FOLLOWS: COLOR

PHASE 208/120V 480/277V A OR 1 B OR 2 RED ORANGE C OR 3 BLUE YELLOW NFUTRAL WHITE OR GRAY

HIGH TENSION OUTLET.

EQUIP GROUND GREEN GREEN ALL POWER CABLES SHALL BE TERMINATED, SPLICED AND TAPPED WITH COLOR-KEYED, CIRCUMFERENTIAL COMPRESSION CONNECTORS AS MANUFACTURED BY THE THOMAS & BETTS CO., SERIES 54000 OR AS ACCEPTABLE, EXCEPT IN MOTOR CONTROLLERS, SWITCHES AND PANELBOARDS WHERE LUGS CANNOT BE CHANGED. USE MANUFACTURER'S RECOMMENDED TOOLING TO APPLY.

LUGS SHALL BE THE TWO-HOLE TYPE. INSULATE ALL SPLICES AND TAPS WITH HEAT SHRINKABLE INSULATION, RAYCHEM OR THOMAS & BETTS OR AS ACCEPTABLE. FURNISH AND INSTALL LUGS WHERE NOT FURNISHED WITH EQUIPMENT WHERE CABLES PASS THROUGH FIRE RATED, FIRE RESISTANT AND/OR FIRE STOPPED FLOORS, WALLS, AND ABOVE CEILING SMOKE BARRIERS USE CABLE SLEEVES THAT PREVENT THE SPREAD OF FIRE OR PRODUCTS OF COMBUSTION. SLEEVES SHALL BE NELSON ELECTRIC "MULTI-CABLE TRANSIT", NELSON "FLAMESEAL" OR AS ACCEPTABLE.

PROVIDE COMPLETE PANELS OR PANELBOARDS PER CONTENT INDICATED ON THIS DRAWINGS PACKAGE PROVIDE TWO (2) KEYS FOR EACH CABINET LOCK.

SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE CIRCUIT BREAKERS COMPATIBLE WITH EXISTING PANELS. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE FOLLOWING MANUFACTURERS: SQUARE D, SIEMENS, GENERAL ELECTRIC, EATON, OR LOCAL MANUFACTURER PROVIDING LISTED PRODUCT

PROVIDE PANEL CONSISTING OF AN ASSEMBLY OF BRANCH CIRCUITS SWITCHING AND PROTECTIVE DEVICES (CIRCUIT BREAKERS, SWITCH AND FUSE UNITS, OR COMBINATION THEREOF) MOUNTED INSIDE A DEAD FRONT ENCLOSURE. PROVIDE THE NUMBER AND SIZE OF THESE BRANCH CIRCUIT DEVICES AS INDICATED BY THE CIRCUITING, ON THE DRAWINGS, AND IN THE SCHEDULES. LOCATIONS OF CIRCUIT BREAKERS SHALL BE AS INDICATED IN THE SCHEDULES. F. POWER AND DISTRIBUTION PANELBOARDS - CIRCUIT BREAKER TYPE

a. SHALL BE OF THE VOLTAGE AND AMPERAGE SHOWN, 3 PHASE, 4 WIRE, 44,000 AMPS AIC MINIMUM, UNLESS SHOWN OTHERWISE, DEAD FRONT, CIRCUIT BREAKER TYPE, WITH MAIN CIRCUIT BREAKER OR MAIN LUGS ONLY AS SHOWN, COPPER BUS, FULLY RATED NEUTRAL AND GROUND BARS, NEMA TYPE 1 (INDOOR INSTALL) OR NEMA 3R (OUTDOOR INSTALL) ENCLOSURE AND SURFACE TRIM. BLANK CIRCUIT BREAKER SPACES SHALL BE FULLY BUSED AND READY TO ACCEPT FUTURE CIRCUIT BREAKERS. G. LIGHTING AND RECEPTACLE PANELS - CIRCUIT BREAKER TYPE

a. PANELS SHALL BE OF THE VOLTAGE, AMPERAGE AND NUMBER OF POSITIONS SHOWN, 3 PHASE, 4 WIRE, 22,000 AIC MINIMUM, UNLESS SHOWN OTHERWISE, WITH MAIN CIRCUIT BREAKER OR MAIN LUGS ONLY AS SHOWN, COPPER BUS, FULLY RATED NEUTRAL AND GROUND BARS, NEMA TYPE 1 (INDOOR INSTALL) OR NEMA 3R (OUTDOOR INSTALL) ENCLOSURE AND SURFACE OR FLUSH TRIM AS SHOWN. IN MAIN CIRCUIT BREAKER PANELS, THE MAIN CIRCUIT BREAKER SHALL BE SEPARATE FROM AND NOT MOUNTED IN FEFDER BREAKER POSITIONS . RIGID REMOVABLE ASSEMBLY OF COPPER BUS BARS AND INTERCHANGEABLE BOLTED BRANCH CIRCUIT DEVICES.

b. BUS BARS SIZED IN ACCORDANCE WITH UL STANDARDS TO LIMIT TEMPERATURE RISE ON ANY CURRENT CARRYING PART TO A MAXIMUM OF 65 DEGREES C ABOVE AN AMBIENT OF 40 DEGREES C MAXIMUM. c. BUS BARS DRILLED TO PERMIT BRANCH CIRCUIT DEVICES OF ALL SIZES AND NUMBER OF POLES TO BE INTERCHANGEABLE AND INSTALLED IN ANY SPARE SPACE OF SUFFICIENT SIZE, WITHOUT DISTURBING ADJACENT UNITS; WITHOUT REMOVING MAIN BUS OR BRANCH CIRCUIT CONNECTORS AND WITHOUT MACHINING, DRILLING, OR TAPPING IN THE FIELD.

SINGLE CIRCUIT BREAKERS OF THE SAME SIZE e. FULL-SIZE (100%-RATED) INSULATED NEUTRAL BARS SHALL BE INCLUDED FOR PANELBOARDS SHOWN WITH NEUTRAL. NEUTRAL BUSING SHALL HAVE A SUITABLE LUG FOR EACH OUTGOING FEEDER REQUIRING A NEUTRAL CONNECTION. 200%-RATED NEUTRALS SHALL BE SUPPLIED FOR PANELS DESIGNATED ON DRAWINGS WITH OVERSIZED NEUTRAL CONDUCTORS AND PANELS SERVED FROM K-RATED TRANSFORMERS.

d. ARRANGE BUS IN SEQUENCE OR DISTRIBUTED PHASING SO THAT MULTI-POLE CIRCUIT BREAKER CAN REPLACE ANY GROUP OF

f. PROVIDE MINIMUM 50% RATED NON-INSULATED GROUND BUS IN EACH PANELBOARD. CONNECT TO GROUND LUG. GROUND BUS SHALL HAVE SUFFICIENT CAPACITY FOR ALL BRANCH CIRCUITS. PROVIDE AN ADDITIONAL ISOLATED GROUND BUS WHERE ENCLOSURE - CODE GAUGE STEEL BOX GALVANIZED

PROVIDE A WELDED GROUND CONNECTOR TO INSIDE OF ENCLOSURE

FLUSH MOUNTED IN FINISHED AREAS AND WHERE INDICATED. SURFACE MOUNT ELSEWHERE. ALL CABINETS SHALL INCLUDE AMPLE CONCENTRIC KNOCKOUTS ON TOP, BOTTOM, SIDES, AND BACK. DOORS MUST BE PROVIDED FOR ALL PANELS. HEAVY CODE GAUGE STEEL AS REQUIRED TO MAINTAIN PANEL FACE FLAT.

DOORS SHALL BE HINGED ON EITHER THE LEFT OR RIGHT AND EQUIPPED WITH A 110 DEGREE DOORSTOP OR A CONTINUOUS PIANO-TYPE HINGE WITH A MAXIMUM OPENING OF 160 DEGREES, DOORS SHALL BE DOOR IN DOOR TYPE m. THE CABINET SHALL BE ELECTROSTATIC POWDER-COATED OVER A RUST INHIBITOR OR A BAKED ENAMEL FINISH. THE COLOR SHALL BE ANSI 61 LIGHT GRAY. n. PROVIDE CYLINDER LOCK. ALL PANELS KEYED ALIKE. PROVIDE FOUR (4) OF EACH PANEL KEY.

 WELDED ANGLE REST AT THE BOTTOM OF THE DOOR TO FACILITATE COVER INSTALLATION. p. DOORS OVER 48" IN HEIGHT SHALL HAVE AUXILIARY FASTENERS AT TOP AND BOTTOM OF DOOR IN ADDITION TO LOCK AND q. METAL BLANK FILLERS (PLASTIC FOR RETROFITS) SHALL BE PROVIDED FOR EACH UNUSED CIRCUIT POSITION.

TERMINAL LUGS - BOLTED TYPE, LABELED FOR EITHER COPPER OR ALUMINUM CONDUCTORS. LOCATE MAIN LUGS PROPERLY AT TOP OR BOTTOM, DEPENDING WHERE MAIN FEEDER ENTERS.

I. ELECTRICAL RATINGS a. ALL CIRCUIT BREAKERS SHALL BE FULLY-RATED UNLESS THE DRAWINGS SPECIFICALLY INDICATE SERIES RATED. WHEN SERIES RATINGS ARE APPLIED WITH INTEGRAL OR REMOTE UPSTREAM DEVICES, A LABEL OR MANUAL SHALL BE PROVIDED. IT SHALL STATE THE CONDITIONS OF THE UL SERIES RATINGS INCLUDING: a.a. SIZE AND TYPE OF UPSTREAM DEVICE

a.c. UL SERIES SHORT-CIRCUIT RATING. b. WHERE INDICATED, PROVIDE PANELBOARDS HAVING A "SERVICE ENTRANCE" TYPE UL LABEL WITH NEUTRALS FACTORY BONDED TO FRAME OR ENCLOSURE

c. ALL PANELBOARDS SHALL INCLUDE LABELS WITH FOLLOWING INFORMATION: "DANGER OF ELECTRICAL SHOCK" LABEL; UL LISTING; MANUFACTURER'S NAME; DATE OF MANUFACTURE; # OF PHASES; VOLTAGE RATING; CURRENT RATING; SHORT-CIRCUIT

N. UNLESS OTHERWISE SPECIFIED SHALL BE EQUIPPED WITH PLASTIC DESIGNATION PLATE. O. CIRCUIT BREAKER DEVICES a. PLASTIC MOLDED CASE. COMPLETELY SEALED ENCLOSURE. TOGGLE TYPE OPERATING HANDLE. TRIP AMPERE RATING AND

a.b. BRANCH DEVICES THAT CAN BE USED

ON/OFF INDICATION CLEARLY AND VISIBLE. b. THERMAL-MAGNETIC TRIP-FREE, TRIP-INDICATING, QUICK-MAKE, QUICK-BREAK, WITH INVERSE TIME DELAY CHARACTERISTICS SINGLE-HANDLE AND COMMON TRIPPING MULTIPOLE BREAKERS. c. SILVER ALLOY CONTACTS WITH AUXILIARY ARC-QUENCHING DEVICES. d. PANELBOARD MUST BE OF THE TYPE WHICH WILL ACCEPT THE FIELD INSTALLATION OF SHUNT TRIP DEVICES OF 60 AMPERES OR

LESS ON THE BRANCH DEVICES. e. CIRCUIT BREAKERS FOR POWER AND DISTRIBUTION PANELBOARDS SHALL HAVE A MINIMUM INTERRUPTING RATING OF 44,000 AMPS RMS AT 240 VOLTS AC CIRCUIT BREAKERS FOR LIGHTING AND RECEPTACLE PANELBOARDS SHALL HAVE A MINIMUM INTERRUPTING RATING OF 22,000

AMPS RMS AT 240 VOLTS AC. BOLTED TYPE TERMINALS U.L. LISTED FOR EITHER ALUMINUM OR COPPER 75 DEGREES C CABLES h. PROVIDE MAIN BREAKERS IN PANELS, WHICH ARE FED (SERVED) FROM TRANSFORMERS UNLESS SEPARATE TRANSFORMER SECONDARY PROTECTION IS PROVIDED.

i. SHUNT TRIP BREAKERS SHALL BE SUPPLIED WITH 120 VOLT COILS. PROVIDE 120 VOLT CIRCUIT FROM NEAREST 120 VOLT PANEL TO COIL. WHERE SHUNT TRIP BREAKERS ARE IN EMERGENCY PANELS PROVIDE EMERGENCY 120 VOLT SOURCE FOR SAME FROM NEAREST 120 VOLT EMERGENCY PANEL PROVIDE LOCKING DEVICE FOR DESIGNATED BREAKERS.

FOR HVAC EQUIPMENT PROVIDE UL LISTED "HACR" TYPE DEVICES. GROUND FAULT INTERRUPTERS

a. GROUND FAULT INTERRUPTER BRANCH CIRCUIT BREAKERS SHALL BE AS INDICATED ON THE DRAWINGS. CB's SHALL BE CIRCUIT INTERRUPTING WHICH WILL OPERATE MANUALLY FOR NORMAL SWITCHING FUNCTIONS AND AUTOMATICALLY UNDER OVERLOAD, SHORT CIRCUIT, AND 0.005 AMP LINE-TO-GROUND FAULT CONDITIONS, THE OPERATING MECHANISM SHALL BE ENTIRELY TRIP-FREE SO THAT CONTACT CANNOT BE HELD CLOSED AGAINST AN ABNORMAL OVERCURRENT, SHORT CIRCUIT, OR GROUND FAULT CONDITION. THE DEVICE SHALL BE BOLT-ON TYPE AND SHALL BE INTERCHANGEABLE WITH STANDARD 1P CB UTILIZED IN THE PANELBOARD.

a. MOUNT ALL PANELS AT A MAXIMUM HEIGHT OF 6 FEET 6 INCHES TO TOP UNLESS OTHERWISE NOTED. WHERE FLUSHED MOUNTED, THE FIRE INTEGRITY OF THE WALL IN WHICH IT IS INSTALLED MUST BE MAINTAINED c. NEATLY ARRANGE BRANCH CIRCUIT WIRES AND TIE TOGETHER IN EACH GUTTER WITH THOMAS & BETTS NYLON "TY-RAPS", OR

APPROVED EQUAL AT MINIMUM 4 INCH INTERVALS. d PLUG ALL KNOCKOUTS REMOVED AND NOT UTILIZED e. PROVIDE NAMEPLATE AND FILL OUT PANEL DIRECTORY. FOR REMODEL WORK OR CHANGES, TRACE CIRCUITS TO DETERMINE LOADS AND PROVIDE NEW UPDATED DIRECTORY.

PROVIDE GROUNDING AND BONDING JUMPERS PER SECTION 16140 AND AS INDICATED ON THE DRAWINGS.

a. ALL BRANCH CIRCUITS SHALL BE BALANCED AT THEIR RESPECTIVE PANEL TO WITHIN 10 PERCENT FULL LOAD APPLIED.

FURNISH AND INSTALL ALL BOXES, FITTINGS, DEVICES, RACEWAYS, CONDUCTORS, CONNECTIONS, MOUNTING ACCESSORIES,

ADAPTERS AND ALL OTHER MATERIALS, EQUIPMENT AND LABOR NECESSARY FOR A COMPLETE ELECTRICAL INSTALLATION. B. INSTALL ELECTRIC OUTLETS VERTICALLY UNLESS NOTED TO THE CONTRARY AT HEIGHTS AS NOTED. THOSE LOCATED ON INTERIOR COLUMNS SHALL BE CENTERED LATERALLY.

MOUNTING HEIGHT OF CONVENIENCE RECEPTACLES SHALL BE 20" A.F.F., UNLESS OTHERWISE NOTED. USE CAST BOXES FOR EXPOSED WORK, AND WHERE INSTALLED FLUSH IN FLOORS. ALL OTHER OUTLET BOXES SHALL BE SHEET STEEL AND GALVANIZED. FLOOR BOXES SHALL BE ADJUSTABLE TYPE.

E. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. DECORATOR TYPE SHALL BE PROVIDED IN FINISHED AREAS. DECORATOR TYPE SHALL BE PROVIDED WITH MATCHING PLATES. HEAVY DUTY DEVICES SHALL CONFORM TO NEMA STANDARD WD-1. F. ALL LOCAL SWITCHES EXCEPT AS OTHERWISE INDICATED SHALL BE TOGGLE TYPE 20 AMPERE, 120-277V CAPACITY WITH FULLY ENCLOSED COMPOSITION CASES. SWITCHES SHALL BE LEVITON 5621-2 FOR DECORATOR TYPE AND HUBBELL HBL 1221 FOR

COMMERCIAL TYPE, OR AS DESIGNATED BY ARCHITECT. G. ALL RECEPTACLES SHALL BE 20 AMP, 2-POLE, 3-WIRE, NEMA 5-20R, UNLESS SHOWN OTHERWISE ON DRAWINGS. DECORATOR TYPE

SHALL BE HUBBELL STYLE LINE HBL 2162; COMMERCIAL TYPE SHALL BE HUBBELL HBL 5462 OR AS APPROVED ACCEPTABLE. H. RECEPTACLES IN UNDERFLOOR BOXES SHALL BE INSTALLED AND PRE-WIRED AT THE FACTORY IN ACCORDANCE WITH THE EXISTING BUILDING STANDARDS.

NEW WIRING DEVICE PLATES SHALL COORDINATE WITH ARCHITECT AND OWNER TO MATCH EXISTING BUILDING STANDARDS. USE ONLY ALUMINUM TAP, SUPPORT AND PULL BOXES WITH ALUMINUM CONDUIT. ALL STEEL BOXES SHALL BE PRIMED AND FINISHED IN

DISCONNECTS SHALL CONFORM TO NEMA AND U.L. STANDARDS, AND BE INSTALLED WHERE SHOWN ON DRAWINGS OR REQUIRED BY CODE. DISCONNECTS SHALL BE HORSEPOWER RATED UNITS TO MAXIMUM SIZES LISTED BY U.L. SWITCHES USED FOR SERVICE ENTRANCE SHALL BE APPROVED FOR SERVICE AND PROVIDED WITH NEUTRAL CONNECTION

B. PROVIDE QUICK-MAKE, QUICK-BREAK MECHANISM, SINGLE THROW WITH EXTERNAL OPERATING HANDLE MECHANICALLY INTERLOCKED WITH ENCLOSURE COVER TO PROVIDE NORMAL ACCESS TO INSIDE OF ENCLOSURE WHEN DISCONNECT IS IN OFF POSITION ONLY AND WITH MEANS TO BYPASS THE MECHANICALLY INTERLOCKED DOOR AND HANDLE. PROVIDE MEANS TO LOCK THE OPERATING HANDLE IN THE OPEN AND CLOSED POSITION. DESIGNATE ON THE ENCLOSURE THE

OPEN AND CLOSED POSITION OF THE OPERATING HANDLE. SWITCHES SHALL BE HEAVY DUTY TYPE SWITCHES SHALL BE OF THE DOUBLE STATIONARY CONTACT TYPE WITH ARC-QUENCHING DEVICE ON EACH POLE FOR

DISCONNECTS RATED ABOVE 250 VOLTS. SWITCHES SHALL BE FUSIBLE OR UNFUSIBLE AS SHOWN ON THE DRAWINGS AND/OR AS REQUIRED.

G. FUSED SWITCHES SHALL BE COMPLETE WITH CLASS "RK-5" OR "L" FUSES AS REQUIRED. H. ALL SWITCHES IN INDOOR, DRY LOCATIONS SHALL BE MOUNTED IN NEMA TYPE I ENCLOSURES, SWITCH ES INSTALLED OUTDOOR OR IN WET AND DAMP LOCATIONS SHALL HAVE NEMA 3R RATING.

A. ALL GROUNDING AND BONDING AND THEIR INSTALLATION SHALL BE IN COMPLIANCE WITH ARTICLE 250 IF APPLICABLE VERSION OF

B. CONNECT SYSTEM COMPONENTS MECHANICALLY AND ELECTRICALLY TO PROVIDE AN INDEPENDENT RETURN PATH TO GROUND C. ALL FEEDERS AND BRANCH CIRCUITS SHALL HAVE A DEDICATED EQUIPMENT GROUNDING CONDUCTOR SEIZED PER NEC TABLE

250.122 D. USE EXOTHERMIC WELDING PROCESS FOR INACCESSIBLE CONNECTIONS. EXTEND EXISTING SYSTEM GROUND TO INCLUDE ALL THE ELECTRICAL WORK IN THE SCOPE OF THIS ALTERATION.

GROUND EACH TRANSFORMER AND/OR OTHER SEPARATELY DERIVED POWER SYSTEM BY RUNNING A CONDUCTOR FROM NEUTRAL TO A LUG WELDED OR BRAZED TO THE INTERIOR OF THE ENCLOSURE. G. RUN GROUNDING CABLE TO NEAREST BUILDING MAJOR STRUCTURAL MEMBER; OR, IF NOT READILY AVAILABLE, TO THE NEAREST

BONDING CONDUCTOR.WHERE AN ISOLATED GROUND SYSTEM IS USED, RUN AN ADDITIONAL CONDUCTOR FOR THE ISOLATED AND FQUIPMENT GROUNDS I. GROUND MOTORS BY CONNECTING A CONDUCTOR FROM A GROUNDING BUSHING IN THE STARTER TO THE MOTOR FRAME. INSTALL CONDUCTOR IN THE CONDUIT WITH THE CIRCUIT CONDUCTORS AND TERMINATED IN THE MOTOR CONNECTION BOX PROVIDING THE

H. IN RAISED FLOOR AREAS, ALSO GROUND TO RAISED FLOOR. WHERE FLEXIBLE METALLIC CONDUIT IS USED, INSTALL AN INTERNAL

TERMINAL IS MECHANICALLY CONNECTED TO THE FRAME. J. RUN ADDITIONAL GROUND CONDUCTOR IN PRIMARY AND SECONDARY CONDUITS TO TRANSFORMERS AND TO ALL EQUIPMENT CONNECTED BY FLEXIBLE CONDUIT TO IMPROVE GROUNDING OF FLEXIBLE CONDUIT

PROVIDE TRANSFORMERS DRY-TYPE DISTRIBUTION TRANSFORMERS WITH PRIMARY AND SECONDARY VOLTAGES OF 600V AND LESS AND CAPACITY RATINGS THROUGH 1000 kVA. REFER TO DRAWING FOR SPECIFIC TRANSFORMER RATING REQUIREMENTS.

WHERE INDICATED, PROVIDE WALL-MOUNTING AND STRUCTURE-HANGING SUPPORTS INCLUDING VIBRATION ISOLATION. REFERENCES; NFPA 70, NEMA ST20, UL 1561, UL 250, EPA OF 2005 PUBLIC LAW 109-58--AUG. 8, 2005 COMPLY WITH ALL RULES FROM DEPARTMENT OF ENERGY CONTAINED IN THE LATEST REVISIONS OF 10 CFR 429 AND 10 CFR 431. D. IEEE C57.12.91 -LOW-SOUND-LEVEL REQUIREMENTS: MINIMUM OF 3 DBA LESS THAN NEMA ST 20 STANDARD SOUND LEVELS WHEN

FACTORY TESTED ACCORDING TO E. BASE BID ACCEPTABLE MANUFACTURERS; SQUARE D, EATON, SIEMENS, GENERAL ELECTRIC.

1-1/2" OR LARGER COLD WATER PIPE. USE ONLY A SINGLE PIPE CLAMP.

G. TRANSFORMERS FOR CRITICAL LOADS: TEMPERATURE RISE 115 °C RISE (OR 80°C AND IF SPECIFICALLY NOTED ON CONTRACT DOCUMENTS) WITH 9 K-FACTOR. H. THE MAXIMUM TEMPERATURE OF THE TOP OF THE ENCLOSURE SHALL NOT EXCEED 50°C RISE ABOVE A 40°C AMBIENT.

F. TRANSFORMERS FOR NON-CRITICAL LOADS: 15 kVA AND LARGER SHALL BE 150°C TEMP RISE ABOVE 40°C AMBIENT WITH 4

NAME OF MANUFACTURER, RATED KILOVOLT-AMPERES, FREQUENCY, PRIMARY AND SECONDARY, VOLTAGE, IMPEDANCE OF TRANSFORMERS 25 KVA AND LARGER. REQUIRED CLEARANCES FOR TRANSFORMERS WITH VENTILATING OPENINGS. AMOUNT AND KIND OF INSULATING LIQUID WHERE USED, FOR DRY-TYPE TRANSFORMERS, TEMPERATURE CLASS FOR THE INSULATION SYSTEM CONSTRUCTION SHALL BE: FACTORY-ASSEMBLED AND -TESTED, AIR-COOLED UNITS FOR 60-HZ SERVICE, CROSS: GRAIN-ORIENTED. NON-AGING SILICON STEEL, COILS: TRANSFORMER COILS SHALL BE OF THE CONTINUOUS WOUND CONSTRUCTION AND SHALL BE

I. MANUFACTURER MARKINGS: EACH TRANSFORMER SHALL BE PROVIDED WITH A NAMEPLATE GIVING THE FOLLOWING INFORMATION;

K. COIL INTERNAL CONNECTIONS: BRAZED OR PRESSURE TYPE, COPPER AND SHALL BE OF THE CONTINUOUS WOUND CONSTRUCTION AND SHALL BE IMPREGNATED WITH NON-HYGROSCOPIC, THERMOSETTING VARNISH, CONSTRUCTED WITH LOW HYSTERESIS AND EDDY CURRENT LOSSES. MAGNETIC FLUX DENSITIES ARE TO BE KEPT WELL BELOW THE SATURATION POINT TO PREVENT CORE

IMPREGNATED WITH NONHYGROSCOPIC, THERMOSETTING VARNISH. COILS SHALL BE WITHOUT SPLICES, EXCEPT FOR TAPS.

L. THE COMPLETED CORE AND COIL SHALL BE BOLTED TO THE BASE OF THE ENCLOSURE BUT ISOLATED BY MEANS OF RUBBER VIBRATION-ABSORBING MOUNTS. THERE SHALL BE NO METAL-TO-METAL CONTACT BETWEEN THE CORE AND COIL AND THE ENCLOSURE EXCEPT FOR A FLEXIBLE SAFETY GROUND STRAP. SOUND ISOLATION SYSTEMS REQUIRING THE COMPLETE REMOVAL OF ALL FASTENING DEVICES WILL NOT BE ACCEPTABLE.

M. THE CORE OF THE TRANSFORMER SHALL BE VISIBLY GROUNDED TO THE ENCLOSURE BY MEANS OF A FLEXIBLE GROUNDING CONDUCTOR SIZED IN ACCORDANCE WITH APPLICABLE UL AND NEC STANDARDS. N. ALL TERMINALS, INCLUDING THOSE FOR CHANGING TAPS, MUST BE READILY ACCESSIBLE BY REMOVING A FRONT COVER PLATE.

O. TAPS SHALL HAVE A 5% FCAN AND 10% FCBN O.a. 2.5% STEPS ON ALL VOLTAGES 350 V AND ABOVE, 15 TO 225KVA O.b. 5% STEPS ON ALL VOLTAGES BELOW 350 V, 15 TO 225KVA P. TRANSFORMERS SHALL HAVE PROVISIONS FOR BONDING NEUTRAL TO GROUND

Q. TRANSFORMERS VENTILATION SHALL NOT BE LOCATED IN WIRE ACCESS AREAS DEFINED ON DRAWINGS J. TRANSFORMER ACCESS AREAS SHALL ALLOW FOR NEC BENDING RADIUS

K. TERMINALS SHALL BE SIZE TO HANDLE CABLES FOR THE FOLLOWING WIRE RANGE INDICATED ON THE CONTRACT DOCUMENTS. L. THE TRANSFORMER ENCLOSURES SHALL BE VENTILATED AND BE FABRICATED OF HEAVY GAUGE, SHEET STEEL CONSTRUCTION. THE ENTIRE ENCLOSURE SHALL BE FINISHED UTILIZING A CONTINUOUS PROCESS CONSISTING OF DEGREASING, CLEANING AND PHOSPHATIZING, FOLLOWED BY ELECTROSTATIC DEPOSITION OF POLYMER POLYESTER POWDER COATING AND BAKING CYCLE TO

COATING COLOR SHALL BE ANSI 49.

N.A. ALL MOUNTING BRACKETS FOR UNITS [UP TO 75KVA MAX.]

N.B. CEILING MOUNTING BRACKETS FOR UNITS [UP TO 150KVA MAX.]

L.A. MINIMUM CLEARANCE FROM REAR AND SIDES 1/2" L.B. UNITS 75KVA AND SMALLER SHALL HAVE KITS TO CONVERT TO WALL MOUNTED

L.C. UNITS 150KVA AND SMALL SHALL HAVE PROVISIONS TO BE TRAPEZE MOUNTED L.D. ALL ENCLOSURES SHALL HAVE KIT TO CONVERT FROM TYPE 1 OR 2 TO TYPE 3R

M. SOUND LEVELS SHALL BE WARRANTED BY THE MANUFACTURER NOT TO EXCEED THE FOLLOWING: 15 TO 50KVA - 39DB; 51 TO 112.5 KVA - 44 DB; 150KVA - 47DB; 151 TO 300KVA - 49 DB; 301 TO 500KVA - 54DB; 501 TO 700KVA - 56DB; 701 TO 1000KVA - 58 DB

PROVIDE UNIFORM COATING OF ALL EDGES AND SURFACES. THE COATING SHALL BE UL RECOGNIZED FOR OUTDOOR USE. THE

N. OPTIONAL ACCESSORIES - PROVIDE THE FOLLOWING WHERE INDICATED ON CONTRACT DRAWINGS AND AS APPLICABLE TO THE

O. INSTALLATION; UNLESS OTHERWISE INDICATED, TRANSFORMERS SHALL BE FLOOR MOUNTED, INSTALL WALL-MOUNTING

TRANSFORMERS LEVEL AND PLUMB WITH WALL BRACKETS FABRICATED BY TRANSFORMER MANUFACTURER, INSTALL FLOOR-MOUNTING TRANSFORMERS LEVEL ON CONCRETE BASES. CONSTRUCT CONCRETE BASES OF DIMENSIONS INDICATED, BUT

NOT LESS THAN 4 INCHES LARGER IN BOTH DIRECTIONS THAN SUPPORTED UNIT AND 4 INCHES HIGH AND ANCHOR TRANSFORMERS TO CONCRETE BASES ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS, SEISMIC CODES AT PROJECT. P. GROUNDING; TRANSFORMERS SHALL BE GROUNDED IN ACCORDANCE WITH THE NEC ARTICLE 250. Q. TESTS

THE WINDINGS AND COMPARE EQUIPMENT NAMEPLATE INFORMATION WITH LATEST SINGLE LINE DIAGRAM AND REPORT

Q.A. VISUAL AND MECHANICAL INSPECTION: INSPECT FOR PHYSICAL DAMAGE, MECHANICAL AND ELECTRICAL CONNECTIONS. CHECK TIGHTNESS OF ACCESSIBLE BOLTED JOINTS BY CALIBRATED TORQUE METHOD, CHECK FOR COLLECTION OF DIRT IN

PERCENT. SUBMIT RECORDING AND TAP SETTINGS AS TEST RESULTS.

Q.B. INSULATION RESISTANCE (MEGGER) TEST WINDING-TO-WINDING AND WINDING-TO-GROUND. Q.C. RECORD TRANSFORMER SECONDARY VOLTAGE AT EACH UNIT FOR AT LEAST 48 HOURS OF TYPICAL OCCUPANCY PERIOD. ADJUST TRANSFORMER TAPS TO PROVIDE OPTIMUM VOLTAGE CONDITIONS AT SECONDARY TERMINALS. OPTIMUM IS DEFINED AS NOT EXCEEDING NAMEPLATE VOLTAGE PLUS 10 PERCENT AND NOT BEING LOWER THAN NAMEPLATE VOLTAGE MINUS 5

Q.D. MANUFACTURER'S FIELD TECHNICIAN SHALL PROVIDE A CERTIFIED TEST REPORT. R. NAMEPLATES; PROVIDE ENGRAVED NAMEPLATE AFFIXED AT FRONT OF THE TRANSFORMER. IT SHALL CONTAIN ALL NECESSARY ELECTRICAL CHARACTERISTICS AND RATING OF THE TRANSFER.

END OF WRITTEN SPECIFICATION

CLIENT, PROPERTY OR OWNERS INFORMATION

SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

DESIGN CONSULTANT

CONTRACTOR or VENDOR:



KEY PLAN:

103 School St,

Lindenhurst, NY 11757

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Iteration, and a specific description of the alteration.'

architect/FOR Do not scale drawings All work shall comply with the local building code(s) and with requirements of local AHJ

.0 | 07.23.2025 | REVISED AS REQUESTED

.O | 06.03.2025 | INITIAL DESIGN LAYOUT

DESCRIPTION

PROJECT NAME

REV DATE

ELECTRIC VEHICLE CHARGING STATIONS INSTALLATION AT

209 S PLANK RD

NEWBURGH, NY 12550

SHEET TITLE

SIGN AND SEAL

E-200

GENERAL NOTES PROJECT NO: 209 S PLANK

> TAX MAP DATA: 60 - 3 - 2 SCALE: DRAWN BY: KS KSUAREZ@WOODHOLLOWDESIGNS.COM CHECKED BY:

ELECTRICAL GENERAL NOTES

- 1. ALL WORK SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE NOTED.
- 2. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS OF FINISHED CONSTRUCTION PRIOR TO FABRICATION AND INSTALLATION OF FIXTURES AND EQUIPMENT.
- 3. MOUNTING HEIGHTS OF EQUIPMENT AND DEVICES SHALL BE AS INDICATED ON THE DRAWINGS. WHERE MOUNTING HEIGHTS ARE NOT GIVEN ON THE DRAWINGS, UTILIZE THE FOLLOWING MOUNTING HEIGHTS UNLESS OTHERWISE NOTED (ALL DIMENSIONS TO CENTERLINE OF BOX): A. RECEPTACLES (WALL MOUNTED) — 18 A.F.F.
- 4. ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE TO MAKE HIMSELF AWARE OF EXISTING CONDITIONS BEFORE SUBMITTING HIS PRICE.
- 5. THE MINIMUM RATING OF DISCONNECT SWITCHES SHALL BE EQUAL TO OR GREATER THAN THE RATING OF THE PROTECTIVE DEVICE ON THE SUPPLY SIDE OF THE DISCONNECT SWITCH. ALL RATINGS OF DISCONNECT SWITCHES AND OR FUSES/ OVER-CURRENT DEVICES SHALL BE SIZED IN ACCORDANCE WITH CODE FOR THE LOADS SERVED PER DESIGN DRAWINGS.
- 6. NO LOW VOLTAGE WIRING SHALL BE PERMITTED IN THE SAME RACEWAY AS LINE VOLTAGE POWER
- 7. ALL JUNCTION OR OUTLET BOXES SHALL BE INSTALLED SO AS TO ALLOW ACCESS TO PROVIDE APPROVED ACCESS DOORS OR PLATES AS REQUIRED IN AREAS WHERE UNOBSTRUCTED ACCESS TO BOX OR OUTLET IS NOT POSSIBLE.
- 8. AT ALL EMPTY CONDUITS PROVIDE BUSHINGS AT ENDS AND DRAG WIRES.
- 9. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSPECTION APPROVAL CERTIFICATE TO OWNER UPON COMPLETION OF WORK.
- 10. CIRCUIT ASSIGNMENTS FOR, RECEPTACLES, WIRING DEVICES, AND ELECTRICAL EQUIPMENT ARE DESIGNATED BY THE NUMBER SHOWN ADJACENT TO THESE DEVICES / EQUIPMENT. PROVIDE CONDUITS, WIRES AND BOXES REQUIRED TO ENERGIZE THE EQUIPMENT AS SHOWN.
- 11. CIRCUIT NUMBERS ARE FOR REFERENCE ONLY. CIRCUIT NUMBERS ARE INTENDED TO BE USED FOR QUANTITIES AND FOR DESIGNATING WHAT OUTLETS (FIXTURES, EQUIPMENT, ETC.) WILL BE ON THE SAME CIRCUIT. CONTRACTOR SHALL REARRANGE CIRCUITS PER FIELD CONDITIONS SO THAT LOAD VALUES FOR EACH PHASE DO NOT EXCEED CODE REQUIREMENTS AND TO BALANCE THE LOADS AT THE PANELS PER SPECIFICATIONS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE CIRCUITS WITH PROPER PHASE SEQUENCES FOR EVERY REQUIRED NEUTRAL WIRE THAT IS SHARED. ELECTRICAL CONTRACTOR SHALL DOCUMENT ALL AFFECTED CIRCUITS, LABEL EACH OUTLET COVER WITH ACTURAL PANEL DESIGNATION AND CIRCUIT NUMBER, AND PROVIDE AS-BUILT PANEL DIRECTORIES AND DRAWINGS PER SPECIFICATIONS.
- 12. ALL WORK SHALL COMPLY WITH REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, LOCAL BUILDING CODE AND BUILDING MANAGEMENT RULES AND REGULATIONS.
- 13. 3/4" (21MM) SHALL BE THE MINIMUM CONDUIT INSTALLED.

ABBREVIATIONS

A, AMP	AMPERE	EMT	ELECTRICAL METAL TUBING	N	NEUTRAL
ADA	AMERICANS WITH DISABILITIES ACT	FACP	FIRE ALARM CONTROL PANEL	NC	NORMALLY CLOSED
AF	AMPERE FRAME	FBO	FURNISH BY OTHER DIVISION OF WORK	NO	NUMBER
AFF	ABOVE FINISH FLOOR	FCO	FUSE CUTOUT BOX	NTS	NOT TO SCALE
AHJ	AUTHORITY HAVING JURISDICTION	FCS	FIRE COMMAND STATION	OL	OVERLOAD DEVICE
AIC	AMPS INTERRUPTING CAPACITY	FSD	FIRE SMOKE DAMPER	Р	POLE
AT	AMPERE TRIP	FU	FUSE	PNL	PANEL
ATS	AUTOMATIC TRANSFER SWITCH	FL	FLOOR	Ø	PHASE
AWG	AMERICAN WIRE GAUGE	FLEX	FLEXIBLE	RA	RETURN AIR
BLDG	BUILDING	FT	FEET OR FOOT	RG, RAG	RETURN AIR GRILLE
BMS	BUILDING MANAGEMENT SYSTEM	GA	GAUGE	SN	SOLID NEUTRAL
С	CONDUIT	G, GRD	GROUND	SPCP	STAIR PRESSURIZATION SYSTEM
CAT	CATALOG	GC	GENERAL CONTRACTOR		CONTROL PANEL
CB	CIRCUIT BREAKER	GFI	GROUND FAULT INTERRUPTER	STP	STAIR PRESSURIZATION
CD	CANDELA	HID	HIGH INTENSITY DISCHARGE	SW	SWITCH
CFSD	COMBINATION FIRE/SMOKE DAMPER	HP	HORSEPOWER	SWBD	SWITCHBOARD
CKT	CIRCUIT	HVAC	HEATING, VENTILATING &	TEL	TELEPHONE
CLG	CEILING		AIR CONDITIONING	TYP	TYPICAL
CO	CONDUIT ONLY	HZ	HERTZ	UON	UNLESS OTHERWISE NOTED
CU	COPPER	IC	INTERRUPTING CAPACITY	UL	UNDERWRITERS LABORATORIES
DACS	DIGITAL ALARM COMMUNICATION SYSTEM	JB	JUNCTION BOX	UV	ULTRAVIOLET
DACT	DIGITAL ALARM COMMUNICATION TERMINAL	LEMCS	LOCAL EMERGENCY CONTROL SYSTEM	VESDA	VERY EARLY SMOKE DETECTION
DGP	DATA GATHERING PANEL	LTG	LIGHTING		APPARATUS
DIFF	DIFFERENTIAL	MCB	MAIN CIRCUIT BREAKER	V	VOLTAGE
DISC	DISCONNECT	MECH	MECHANICAL	VDC	DIRECT CURRENT VOLTAGE
DN	DOWN	MER	MECHANICAL EQUIPMENT ROOM	VFD	VARIABLE FREQUENCY DRIVE
DWG	DRAWING	MIN	MINIMUM	WP	WEATHER PROOF
ELEC	ELECTRICAL	MLO	MAIN LUGS ONLY		
EMR	ELEVATOR MACHINE ROOM	MTD	MOUNTED		

POWER AND SIGNAL DEVICE LEGEND

SYMBOL	DESCRIPTION
Φ #	UON, 20A, 125V, 2P, 3W, GROUNDED WALL MOUNTED DUPLEX AND DOUBLE DUPLEX RECEPTACLES, NEMA 5-20R. (COLOR PER ARCHITECT). ALL OUTLETS SHALL BE LABELED WITH ITS SOURCE PANEL AND BREAKER # ID. "WP" - INDICATES WEATHERPROOF (TYP FOR WIRING DEVICES) "C" - INDICATES COUNTER HEIGHT (TYP FOR WIRING DEVICES)
0 0	SHADING FOR DUPLEX OR DOUBLE DUPLEX PER ABOVE INDICATES DEDICATED CIRCUIT
III.	UON, 20A, 125V, 2P, 3W, GROUNDED WALL MOUNTED DUPLEX AND DOUBLE DUPLEX RECEPTACLES WITH GROUND FAULT CIRCUIT INTERRUPTER, NEMA 5-20R. WEATHER PROOF (COLOR PER ARCHITECT). ALL OUTLETS SHALL BE LABELED WITH ITS SOURCE PANEL AND BREAKER # ID.
(J)	ELECTRICAL JUNCTION BOX FOR HARDWIRED EQUIPMENT. (2) INDICATES DOUBLE-GANG BOX. (F) INDICATES FLOOR RECESSED. (CE) INDICATES CEILING RECESSED. (AFC) INDICATES ABOVE FINISHED CEILING, SURFACE MTD.
	SURFACE MOUNTED PANELBOARD - SOLID INDICATES NEW, UNSHADED/DASHED INDICATES EXISTING
Т	DRY TYPE TRANSFORMER - SIZE AS INDICATED ON THE DRAWINGS
M	ELECTRICAL METER OR SUB-METER AS IDENTIFIED ON THE DRAWINGS
1 CKT PNL-(#) 2 CKT PNL-(#),(#) 3 CKT PNL-(#),(#)	ONE, TWO, OR THREE HOME RUNS TO ELECTRICAL PANEL 'PNL' - INDICATED PANEL NAME '#' - INDICATES CIRCUIT NUMBER, U.O.N.
_G	GROUND BAR

ONE LINE/RISER DIAGRAM LEGEND

SYMBOL	DESCRIPTION
) ##A/#P	CIRCUIT BREAKER "##A" - INDICATES AMPERAGE RATING "#P" - INDICATES NUMBER OF POLES
##AF	FUSED DISCONNECT SWITCH "##AS" - INDICATES SWITCH SIZE "##AF" - INDICATES FUSE SIZE
#A/#P	NON-FUSED DISCONNECT SWITCH "#A" - INDICATES SWITCH SIZE "#P" - INDICATES NUMBER OF POLES
480Δ OR 600V 120Y/208V	TRANSFORMER, 480V INDICATES PRIMARY VOLTAGE, 120/208V INDICATES SECONDARY VOLTAGE
<u>-</u>	GROUNDING CONNECTION
PANEL PP1	PANELBOARD - REFER TO PANELBOARD SCHEDULES FOR ADDITIONAL INFORMATION

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KEY PLAN:

REV	DATE	DESCRIPTION
1.0	06.03.2025	INITIAL DESIGN LAYOUT
2.0	07.23.2025	REVISED AS REQUESTED

PROJECT NAME

ELECTRIC VEHICLE CHARGING STATIONS INSTALLATION AT

209 S PLANK RD NEWBURGH, NY 12550

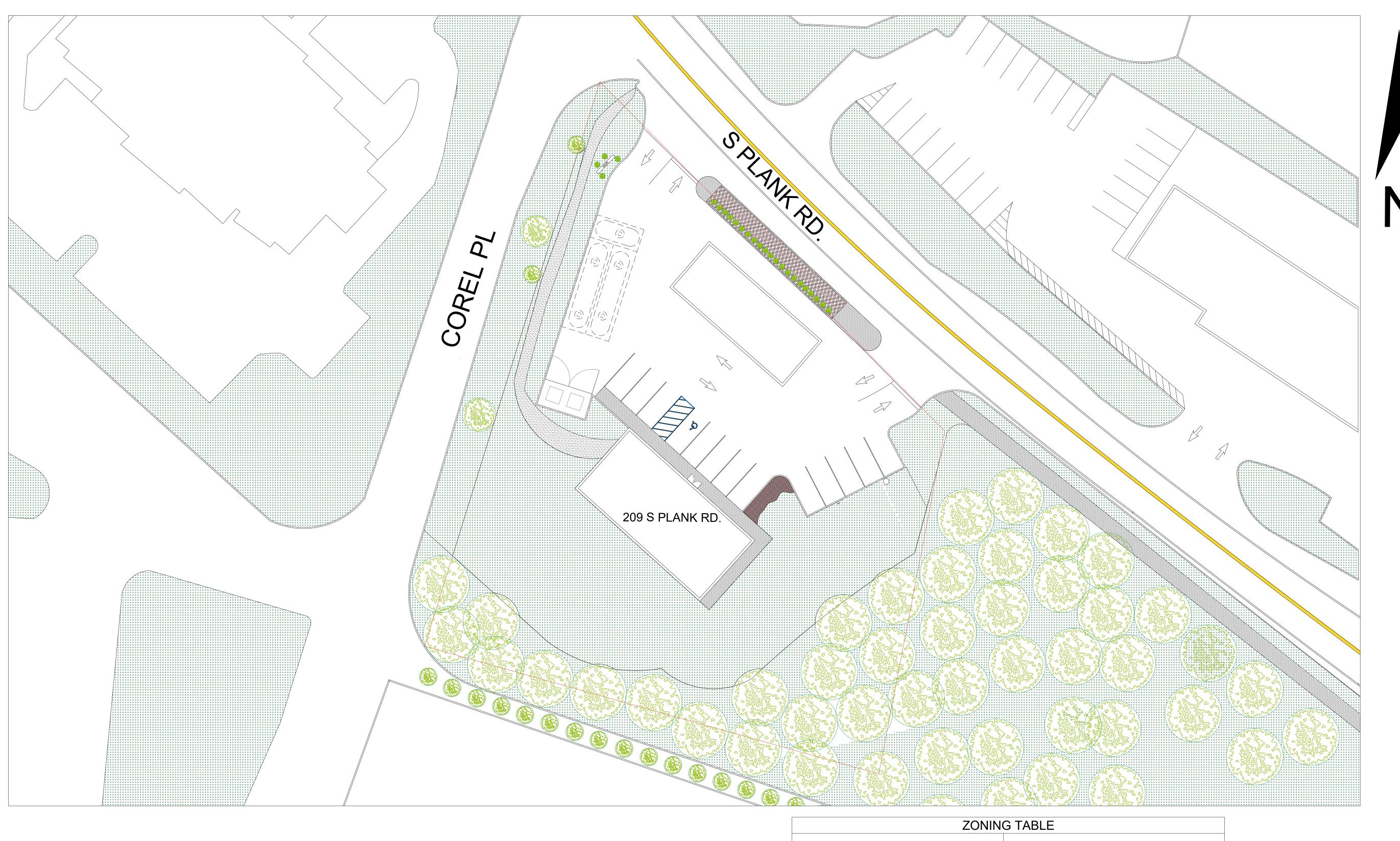
SHEET TITLE

E-201

GENERAL NOTES

	PROJECT NO:	209 S PLAN
AND SEAL	TAX MAP DATA:	60 - 3 -
	SCALE: DRAWN BY: KS	AS NOT

CHECKED BY:



ZC	NING TABLE	
ZONING DISTRICT	B (BUSINESS DISTRICT) WITH GASOLINE- ALLOW SITE PLAN REVIEW B	ABLE USE SUBJECT TO
ZONE CRITERIA	REQUIRED	EXISTING
MIN. LOT AREA (S.F.)	30,000 SF	37,348 SF
MIN. LOT WIDTH (FT.)	100'	203.78'
MIN. LOT DEPTH (FT.)	125'	147.96'
MIN. FRONT YARD (FT.)	40 FT	10'
MIN. REAR YARD (FT.)	30 FT	77.1'
MIN. 1 SIDE YARD (FT.)	15' (30' BOTH)	t7.6'
MIN. BOTH SIDE YARD (FT.)	1	NA
MAX. LOT BLDG COVERAGE (%)	35'	15' ±
MAX. BUILDING HEIGHT (FT.)	50%	6.2%
MIN. PARKING SPACES	80%	33
MAX SIGN AREA (S.F)	2,520 SF/150 = 17	17

PLAN VIEW EXISTING CONDITION SCALE: 1:250

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PROJECT NAME

ELECTRIC VEHICLE
CHARGING STATIONS INSTALLATION AT

209 S PLANK RD NEWBURGH, NY 12550

SHEET TITLE

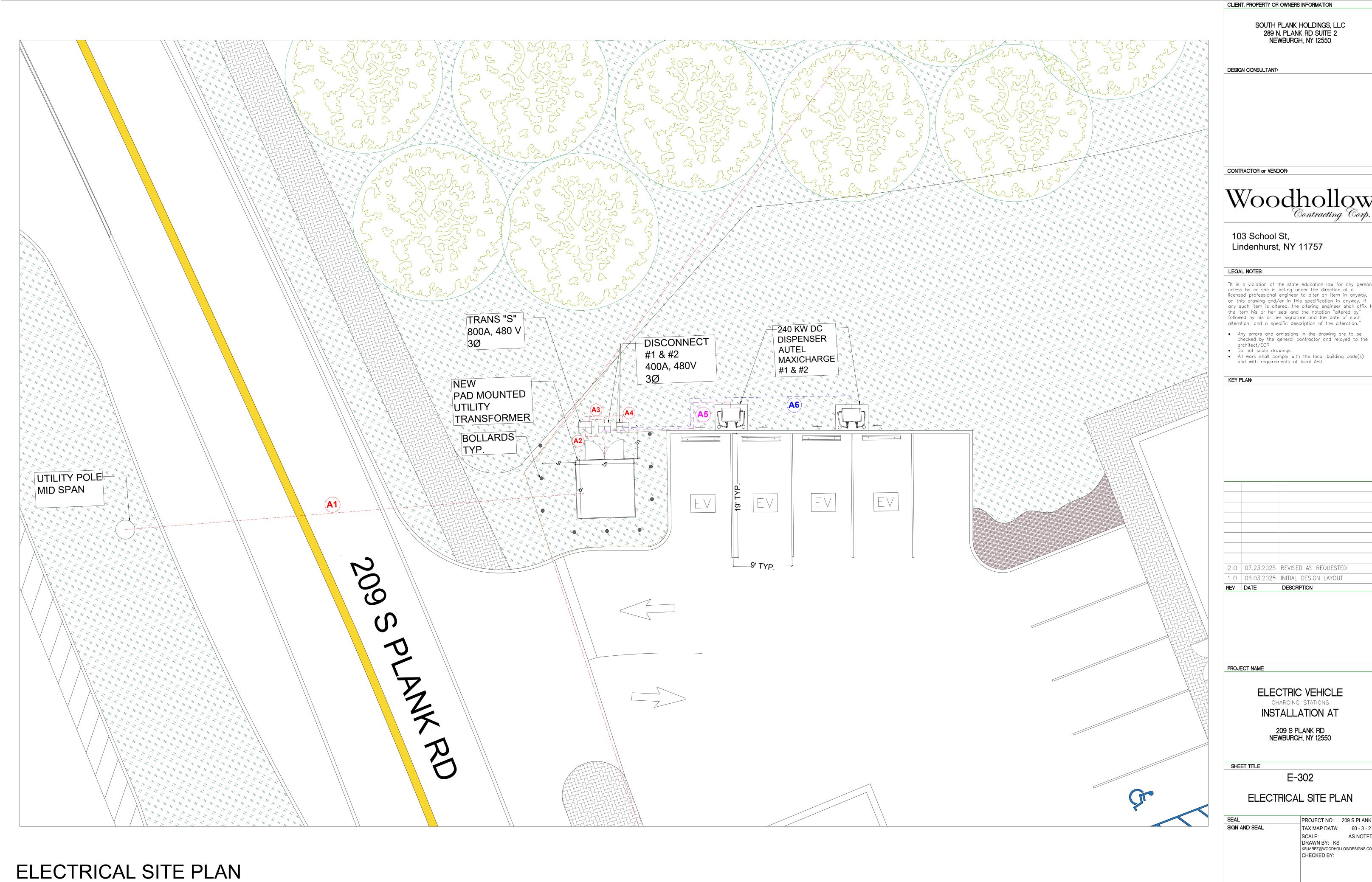
E-300

EXISTING CONDITIONS SITE PLAN

SIGN AND SEAL DRAWN BY: KS

KSUAREZ@WOODHOLLOWDESIGNS.COM





SCALE: 1:75

SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550



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1.0	06.03.2025	INITIAL DESIGN LAYOUT

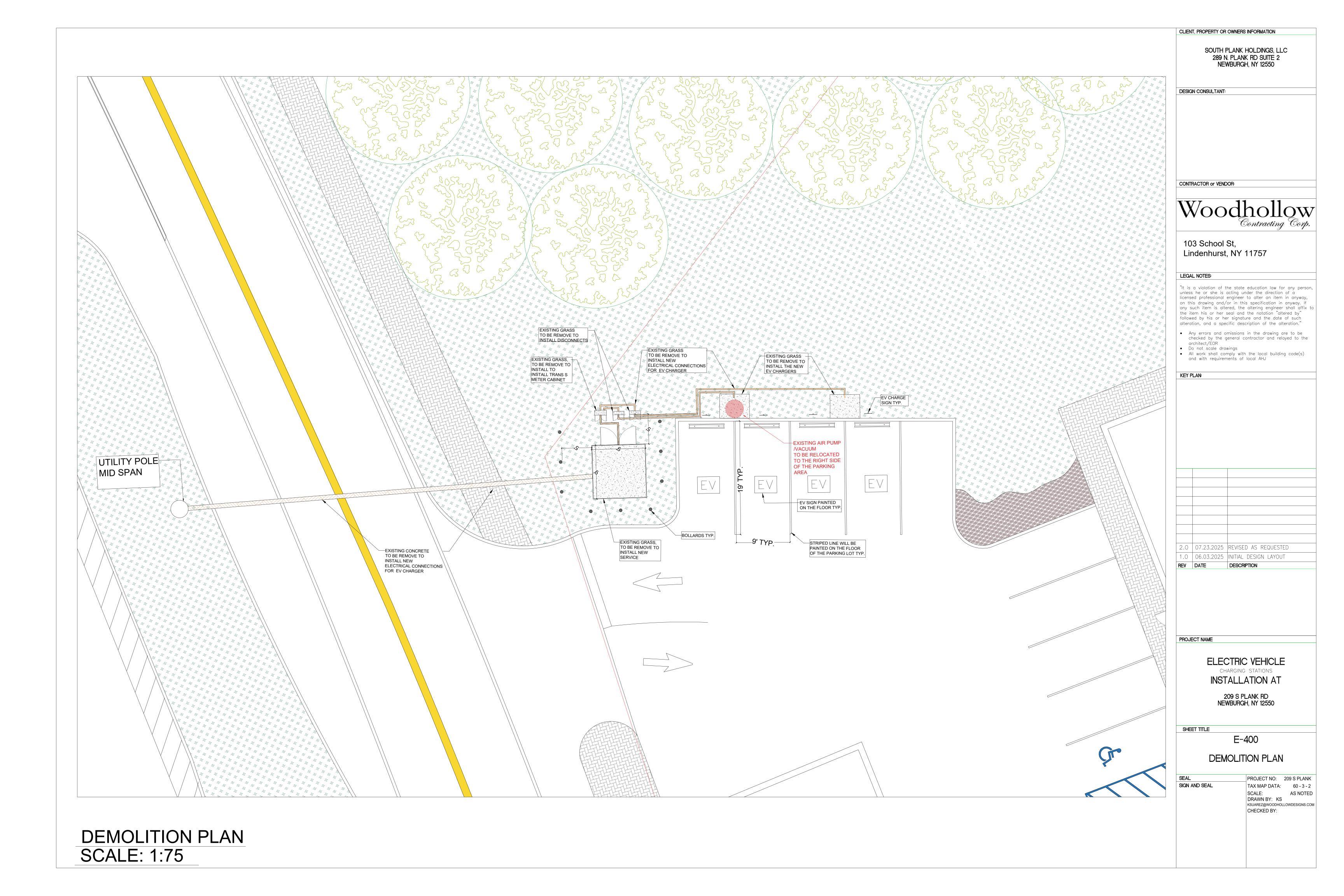
ELECTRIC VEHICLE
CHARGING STATIONS
INSTALLATION AT

209 S PLANK RD NEWBURGH, NY 12550

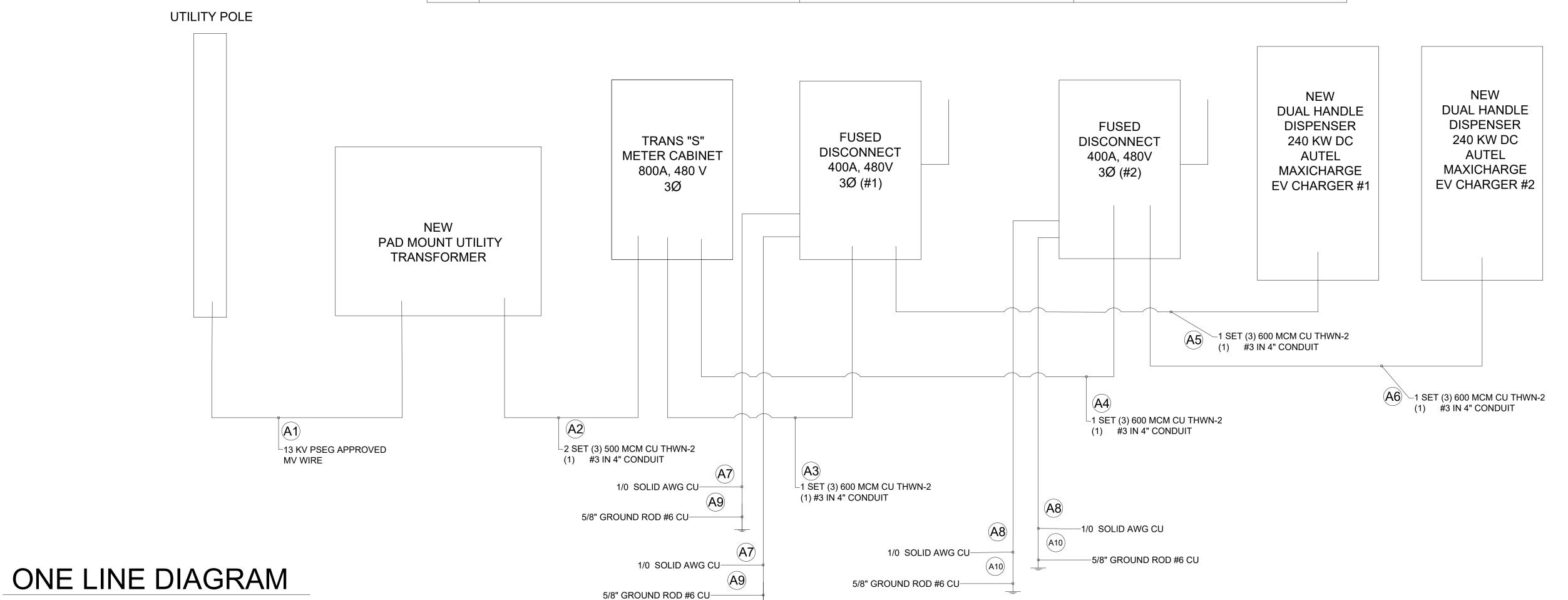
ELECTRICAL SITE PLAN

TAX MAP DATA: 60 - 3 - 2 SCALE: DRAWN BY: KS

KSUAREZ@WOODHOLLOWDESIGNS.COM CHECKED BY:



	FROM	ТО	CONFIGURATION	
A1	NEW UTILITY POLE	NEW PAD MOUNT UTILITY TRANSFORMER	13 KV PSEG APPROVED MV WIRE	
A2	NEW PAD MOUNT UTILITY TRANSFORMER	TRANS "S" METER CABINET 800A, 480 V 3Ø	2 SET (3) 500 MCM CU THWN-2 (1) #3 IN 4" CONDUIT	
A3	TRANS "S" METER CABINET 800A, 480 V 3Ø	FUSED DISCONNECT 800A, 480V 3Ø (#1)	1 SET (3) 600 MCM CU THWN-2 (1) #3 IN 4" CONDUIT	
A4	TRANS "S" METER CABINET 800A, 480 V 3Ø	FUSED DISCONNECT 400A, 480V 3Ø (#2)	1 SET (3) 600 MCM CU THWN-2 (1) #3 IN 4" CONDUIT	
A5	FUSED DISCONNECT 400A, 480V 3Ø (#1)	NEW DUAL HANDLE DISPENSER 240 KW DC AUTEL MAXICHARGE EV CHARGER #1	1 SET (3) 600 MCM CU THWN-2 (1) #3 IN 4" CONDUIT	
A6	FUSED DISCONNECT 400A, 480V 3Ø (#2)	NEW DUAL HANDLE DISPENSER 240 KW DC AUTEL MAXICHARGE EV CHARGER #2	1 SET (3) 600 MCM CU THWN-2 (1) #3 IN 4" CONDUIT	
A7	FUSED DISCONNECT 400A, 480V 3Ø (#1)	GROUNDING SERVICE CONDUCTOR	(2) 1/0 SOLID AWG CU	
A8	FUSED DISCONNECT 400A, 480V 3Ø (#2)	GROUNDING SERVICE CONDUCTOR	(2) 1/0 SOLID AWG CU	
A9	FUSED DISCONNECT 400A, 480V 3Ø (#1)	GROUNDING SERVICE ELECTRODE	(2) 5/8" GROUND ROD #6 CU	
A10	FUSED DISCONNECT 400A, 480V 3Ø (#2)	GROUNDING SERVICE ELECTRODE	(2) 5/8" GROUND ROD #6 CU	



SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

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=v	DATE	DESCRIPTION
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PROJECT NAME

CHARGING STATIONS
INSTALLATION AT

209 S PLANK RD NEWBURGH, NY 12550

SHEET TITLE

ELECTRICAL RISER DIAGRAM

E-500

SEAL PROJECT NO: 209 S PLANK

SIGN AND SEAL TAX MAP DATA: 60 - 3 - 2

SCALE: AS NOTED DRAWN BY: KS

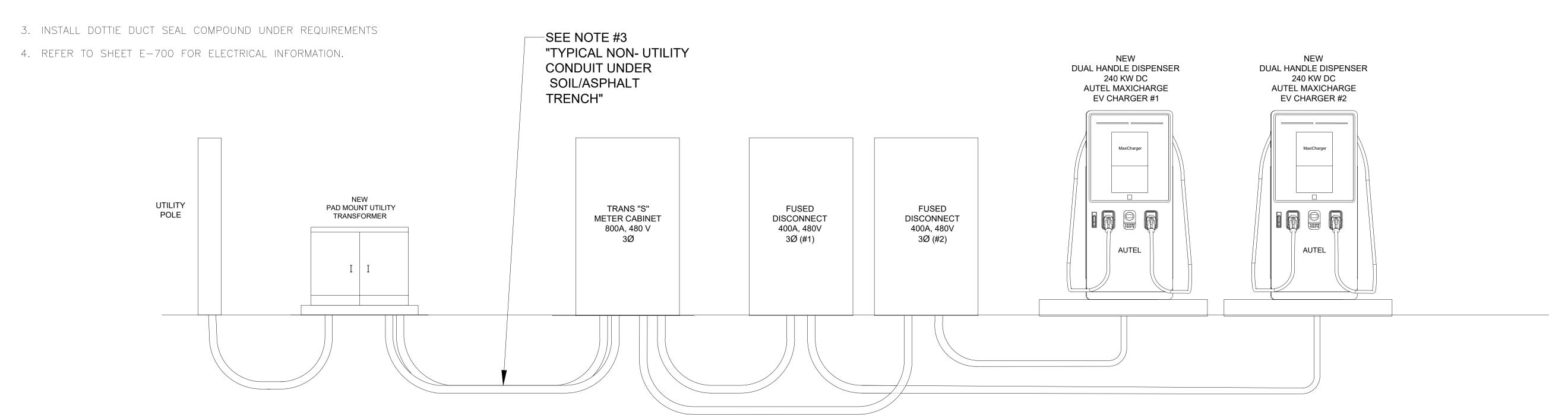
KSUAREZ@WOODHOLLOWDESIGNS.COM

CHECKED BY:

CONDUIT ELEVATION - POWER DISTRIBUTION, POWER UNIT, DISPENSER (FOR REFERENCE ONLY)

NOTES

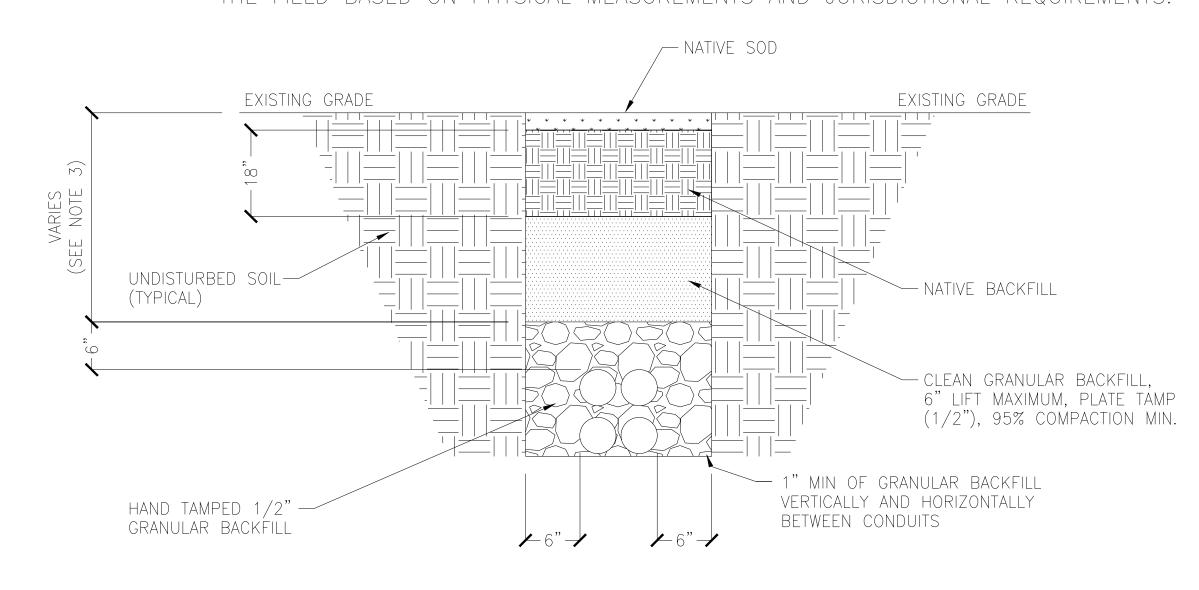
- 1. CONDUITS SHALL BE BURIED BELOW FROST LINE AND IN COMPLIANCE WITH LOCAL NATIONAL CODE
- 2. REFER TO CONDUIT AND WIRE SCHEDULE ON E-700 FOR CONDUIT AND WIRE REQUIREMENTS



TYPICAL NON-UTILITY CONDUIT UNDER SOIL TRENCH

NOTES:

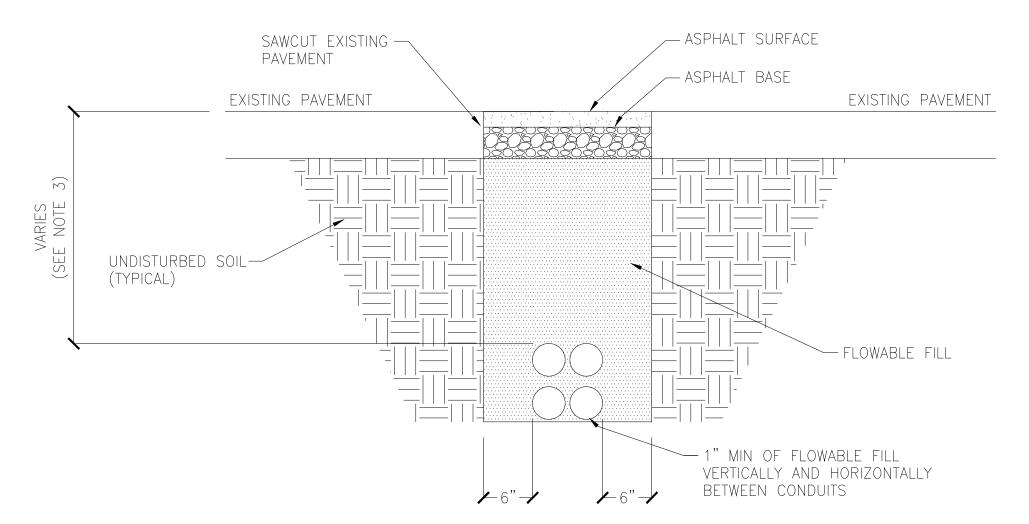
- 1. ANY EXCAVATION LEFT OPEN NEEDS TO BE FENCED, BARRICADED, OR TRENCH PLATED TO INSURE THE SAFETY OF THE GENERAL PUBLIC.
- 2. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
- 3. TRENCH DEPTHS ARE REQUIRED TO BE 2'-0" MIN. OR 6" BELOW FROST LINE PER LOCAL JURISDICTION REQUIREMENTS.
- 4. EXACT NUMBER OF CONDUITS SHALL BE DETERMINED BY SHEET E-700 , EXACT CONDUIT PLACEMENT IN TRENCH SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.



TYPICAL NON-UTILITY CONDUIT UNDER ASPHALT TRENCH

NOTES:

- 1. ASPHALT SHALL COMPLY WITH STANDARD DOT OR LOCAL JURISDICTION SPEC. FOR HMA SURFACE COURSE.
- 2. ANY EXCAVATION LEFT OPEN NEEDS TO BE FENCED, BARRICADED, OR TRENCH PLATED TO INSURE THE SAFETY OF THE GENERAL PUBLIC.
- 3. TRENCH DEPTHS ARE REQUIRED TO BE 2'-0" MIN. OR 6" BELOW FROST LINE PER LOCAL JURISDICTION REQUIREMENTS.
- 4. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE CONSTRUCTION CONDITIONS OR BETTER.
- 5. EXACT NUMBER OF CONDUITS SHALL BE DETERMINED BY SHEET E-700, EXACT CONDUIT PLACEMENT IN TRENCH SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS.



CLIENT. PROPERTY OR OWNERS INFORMATION SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

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KEY PLAN:

PROJECT NAME

ELECTRIC VEHICLE CHARGING STATIONS INSTALLATION AT 209 S PLANK RD NEWBURGH, NY 12550

SHEET TITLE

E-600

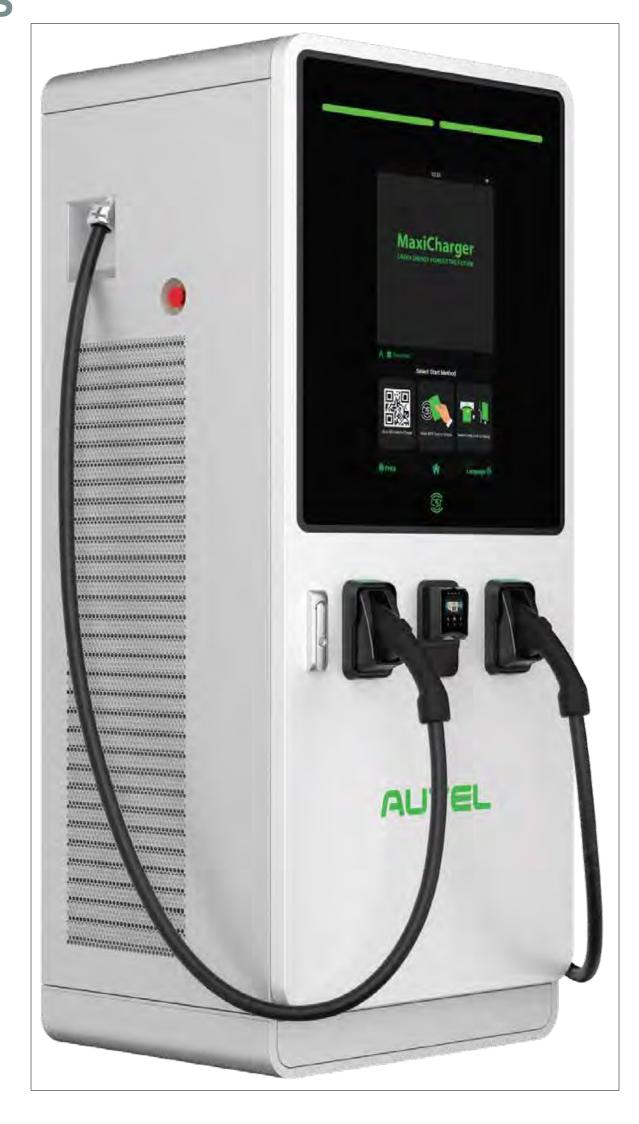
POWER DISTRIBUTION DIAGRAM

SIGN AND SEAL



AUTEL MAXI CHARGER DC FAST 60 KW- 240 KW

SPECIFICATIONS



CHARGER INFO		MEASUREME	NTS ^(IN.)	WEIGH	T (LB.)				
PRODUCT DESCRIPTION	PART. NUMBER	PRODUCT (L xW x H)	PACKAGING (L xW x H)	PACKAGING	ENCLOSURE	NO. OF POWER MODULES (PM)	PM 35.5 PER	ENCLOSURE W/PM	ENCLOSURE W/PACKAGING
60kW UL Dual Port DC AIO	UF060A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	3	105.9	1142.9±22	1146.4±22
80kW UL Dual Port DC AIO	UF080A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	4	141.2	1177.2±22	1146.4±22
100kW UL Dual Port DC AIO	UF100A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	5	176.5	1212.5±22	1146.4±22
120kW UL Dual Port DC AIO	UF120A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	6	211.8	1247.8±22	1146.4±22
140kW UL Dual Port DC AIO	UF140A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	7	247.1	1283.1±22	1146.4±22
160kW UL Dual Port DC AIO	UF160A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	8	282.4	1318.4±22	1146.4±22
180kW UL Dual Port DC AIO	UF180A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	9	317.7	1353.7±22	1146.4±22
200kW UL Dual Port DC AIO	UF200A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	10	353	1389±22	1146.4±22
220kW UL Dual Port DC AIO	UF220A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	11	388.3	1424.3±22	1146.4±22
240kW UL Dual Port DC AIO	UF240A4001	32.3 × 29.5 × 74.8	47.2 × 40.2 × 84.6	110.2	1036±22	12	423.6	1459.6±22	1146.4±22
60kW UL Dual Port DC AIO (S)	UF060A3001	32.3 × 25.6 × 74.8	47.2 × 40.2 × 84.6	110.2	926±22	3	105.9	1031.9±22	1036.2±22
80kW UL Dual Port DC AIO (S)	UF080A3001	32.3 × 25.6 × 74.8	47.2 × 40.2 × 84.6	110.2	926±22	4	141.2	1067.2±22	1036.2±22
100kW UL Dual Port DC AIO (S)	UF100A3001	32.3 × 25.6 × 74.8	47.2 × 40.2 × 84.6	110.2	926±22	5	176.5	1102.5±22	1036.2±22
120kW UL Dual Port DC AIO (S)	UF120A3001	32.3 × 25.6 × 74.8	47.2 × 40.2 × 84.6	110.2	926±22	6	211.8	1137.8±22	1036.2±22

SPECIFICATIONS MAXI CHARGER DC FASTO KW- 240 KW WITH 20KW INCREMENTS

 DCFC 60KW -120 KW
 DCFC 140 KW- 240 KW

 60kW: UF060xxxxx; 80kW: UF080xxxxx;
 140kW: UF140xxxxx; 160kW: UF160xxxxx;

 100kW: UF100xxxxx; 120kW: UF120xxxxx
 180kW: UF180xxxxx; 200kW: UF200xxxxx;

 220kW: UF220xxxxx; 240kW: UF240xxxxx

	TOURVY. OF TOURRANA, TEURVY. OF TEURRANA	100KVV. 01 100XXXXX, 200KVV. 01 200XXXXX,
		220kW: UF220xxxxx; 240kW: UF240xxxxx
	The "xxxxx" portion of the product part number re	epresents the various product configurations.
ELECTRICAL	D 10004 0004 0114 1 MO	
CONNECTOR OPTION*	Dual CCS1, or CCS1 + CHAdeMO	Dual CCS1/CCS1 Boost, or CCS1 + CHAdeMO
MAX. INPUT AC CURRENT	60kW: 91A; 80kW: 120A;	140kW: 206A; 160kW: 234A; 180kW: 263A;
	100kW: 148A; 120kW: 177A	200 k W: 292A; 220 k W: 321A; 240 k W: 349A
NOMINAL INPUT AC CURRENT	60k W: 83A; 80k W: 110A;	140k W: 181A; 160k W: 207A; 180k W: 230A;
	100k W: 138A; 120k W: 165A	200 k W: 260A; 220 k W: 285A; 240 k W: 310
NPUT VOLTAGE RANGE		% to +10 % @ 60 Hz
DC OUTPUT VOLTAGE		CHAdeMO: 150 to 500 V DC
NETWORK TYPE		Γ (External RCD** Required)
AC INPUT CONNECTION	,	No Neutral)
PROTECTION	Over-Current, Over-Voltage, Under-Volt	
	Short-Circuit, Insulation Monito	
OVERVOLTAGEATEGORY	<u> </u>	nput) OVC: III
POWER FACTOR (\$0 % LOAD)		0.98
THDI (> 50 % LOAD)		5 %
PEAK EFFICIENCY		96 %
STANDBY POWER		O W
SHORT CIRCUIT CURRENT RATING		55 kA
ENERGY METERING	Cla	ass A
JSER INTERFACE & COMMUNICATION		
CONNECTIVITY		Wi-Fi / Ethernet (RJ 45)
USER AUTHENTICATION	QR Code, RFID, Credit Card (Optional)	
SO 15118 PLUG & CHARGE		<u>'es</u>
DIN 70121		es (15 6" Optional)
NTERFACE		ouchscreen (15.6" Optional)
ACCESSIBLE FOR WHEELCHAIR USERS		es Con Po Ungraded Later)
COMMUNICATIONS PROTOCOLS		2.0.1 (Can Be Upgraded Later)
RFID READER		are, NFC, Calypso, Ultralight, PayPass, HID & More
EMERGENCY BUTTON		/es Via Web Portal
SOFTWARE UPDATE CONTROL AND CONFIGURATION	<u> </u>	oard Service Portal
	Web Folial, Oll-Do	oald Service Foliai
GENERAL CHARACTERISTICS		
PROTECTION RATINGS		door Use & IK-10
ENCLOSURE TYPE		Steel 430 Et with Bower Denoting)
OPERATION ALTITUDE	,	Ft. with Power Derating)
OPERATING TEMPERATURE	,	131 °F with Linear Power Derating)
STORAGE TEMPERATURE		to +158 °F
HUMIDITY		lon-Condensing °/Full Load/800 VDC
NOISE LEVEL		°/Full Load/800 VDC
MOUNTING		ling Cabinet
CABLE LENGTH	· · · · · · · · · · · · · · · · · · ·	al: 20 or 25 ft)
DIMENSIONS (H X W X D)	10.0 X 32.3 X 23.0 IN. (1950 X 820 X 600 mm)	76.8 x 32.3 x 27.6 ln. (1950 x 820 x 700 mm)
CERTIFICATIONS & STANDARDS		

- FLEXIBLE POWER MODULE DESIGN SMART CLOUD PORTAL WITH
- MULTIPLE CABLE & CHARGING CONNECTOR OPTIONS

COMPLIANCE & SAFETY

EMC COMPLIANCE

WARRANTY

- 27-IN TOUCHSCREEN DISPLAY
- SMART CLOUD PORTAL WITH REMOTE DIAGNOSTICS
- DYNAM LIOCAD BALANCING
 I1S50118 PLUG & CHARGE

UL 2202, UL 2231-1, UL 2231-2, NEC Article 625, CSA C22.2 No. 107.1-16

FCC Part 15 Class A, Class B (Optional)

24 Months with Warranty Extensions Available

CLIENT, PROPERTY OR OWNERS INFORMATION

SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

DESIGN CONSULTANT:

CONTRACTOR or VENDOR:



103 School St, Lindenhurst, NY 11757

LEGAL NOTES:

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- architect/EOR

 Do not scale drawings
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KEY PLAN:

2.0	07.23.2025	REVISED AS REQUESTED

1.0 06.03.2025 INITIAL DESIGN LAYOUT

REV DATE DESCRIPTION

PROJECT NAME

ELECTRIC VEHICLE
CHARGING STATIONS
INSTALLATION AT

209 S PLANK RD
NEWBURGH, NY 12550

SHEET TITLE

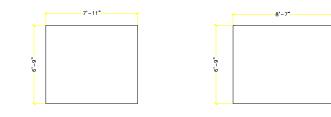
E-700

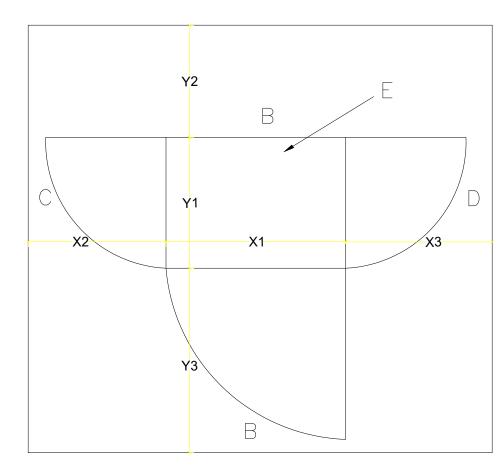
EV CHARGER DETAIL

SEAL SIGN AND SEAL

THE MAXICHARGER REQUIRES AN INSTALLATION SPACE OF 95 X 81 INCHES (2420 X 1950 MM, FOR DF120) OR 103 X 81 INCHES (2620 X 2050 MM, FOR DF240) IN ORDER TO ENSURE THE NORMAL OPERATION AND AIRFLOW AROUND THE MAXICHARGER. THE SPACE IS CALCULATED AS FOLLOWS:







A. FRONT SIDE OF THE MAXICHARGER
B. REAR SIDE OF THE MAXICHARGER
C. LEFT SIDE OF THE MAXICHARGER
D. RIGHT SIDE OF THE MAXICHARGER
E. CABINET

- SPACE REQUIREMENTS FOR DF120

PARAMETER	SPECIF	ICATION
PARAIVIETER	IN	MM
X1	32.3	820
X2	31.5	800
X3	31.5	800
Y1	23.6	600
Y2	19.7	500
Y3	33.5	850

- SPACE REQUIREMENTS FOR DF240

PARAMETER	SPECIFI	CATION
PARAIVIETER	IN	MM
X1	32.3	820
X2	35.4	900
Х3	35.4	900
Y1	27.6	700
Y2	19.7	500
Y3	33.5	850

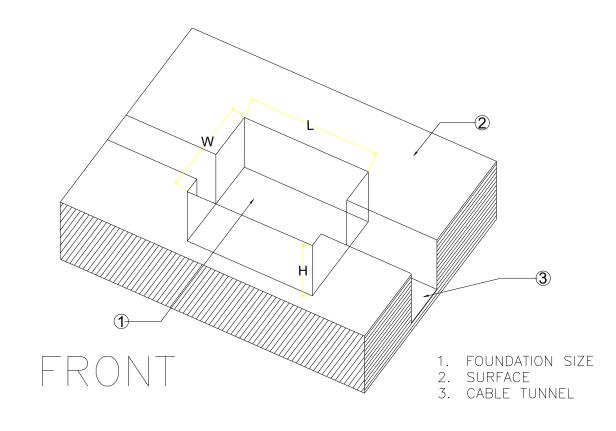
DIG A HOLE ACCORDING TO THE FOUNDATION DIMENSIONS RECOMMENDED



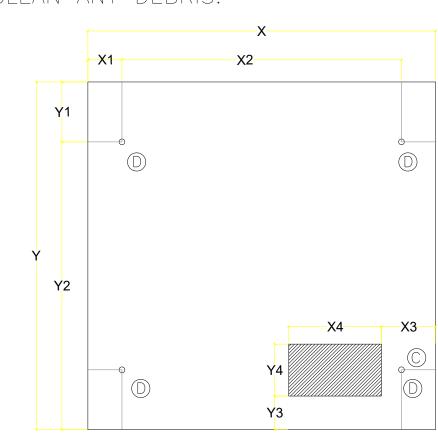


32×25×20in (L×W×H)

32x29x20in (LxWxH)



PLACE THE DRILLING TEMPLATE ON THE CONCRETE SURFACE, ALIGNING WITH THE MARKED AREA (C). MARK THE FOUR MOUNTING HOLES (D) AND REMOVE THE DRILLING TEMPLATE. DRILL INTO THE HOLES WITH DEPTH OVER 4.3 INCHES (110MM) AND 4/5 INCH (20 MM) IN DIAMETER. CLEAN ANY DEBRIS.



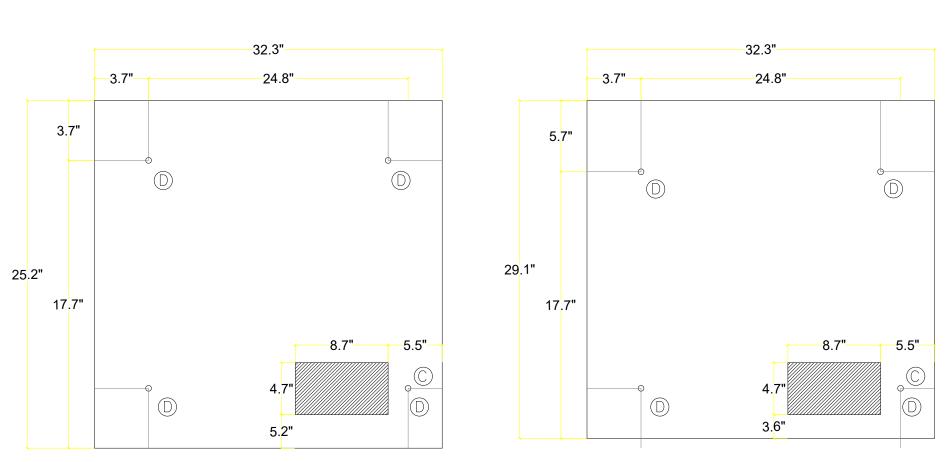
DADAMETE	SPECIFICATION				
PARAMETE R	DF120		DF240		
	IN	MM	IN	MM	
X	32.3	820	32.3	820	
Υ	25.2	640	29.1	740	
X1	3.7	95	3.7	95	
X2	24.8	630	24.8	630	
Х3	5.5	140	5.5	140	
X4	8.7	220	8.7	220	
Y1	3.7	94.3	5.7	144.3	
Y2	17.7	450	17.7	450	
Y3	5.2	131	3.6	91.5	
Y4	4.7	120	4.7	120	

LOCATION

REQUIREMENTS

DF 240

LOCATION REQUIREMENTS DF 120



CLIENT, PROPERTY OR OWNERS INFORMATION

SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

DESIGN CONSULTANT:

CONTRACTOR or VENDOR:



103 School St, Lindenhurst, NY 11757

LEGAL NOTES:

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- architect/EOR ● Do not scale drawings
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KEY PLAN:

2.0 07.23.2025 REVISED AS REQUESTED

1.0 06.03.2025 INITIAL DESIGN LAYOUT

REV DATE DESCRIPTION

PROJECT NAME

CHARGING STATIONS
INSTALLATION AT

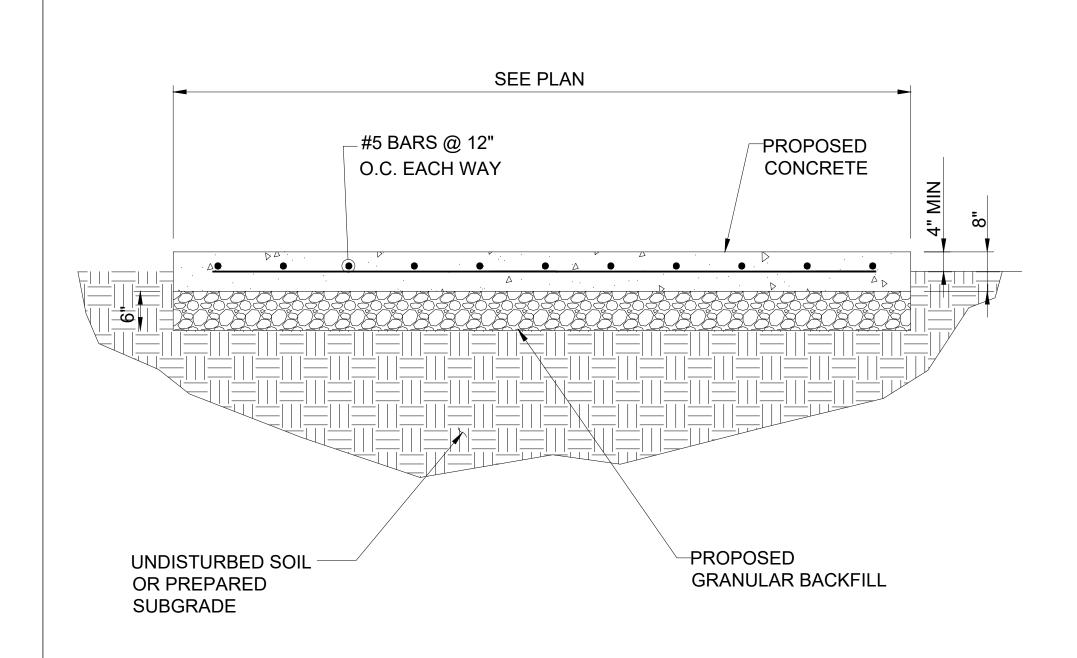
209 S PLANK RD
NEWBURGH, NY 12550

SHEET TITLE

E-701

EV CHARGER DETAILS

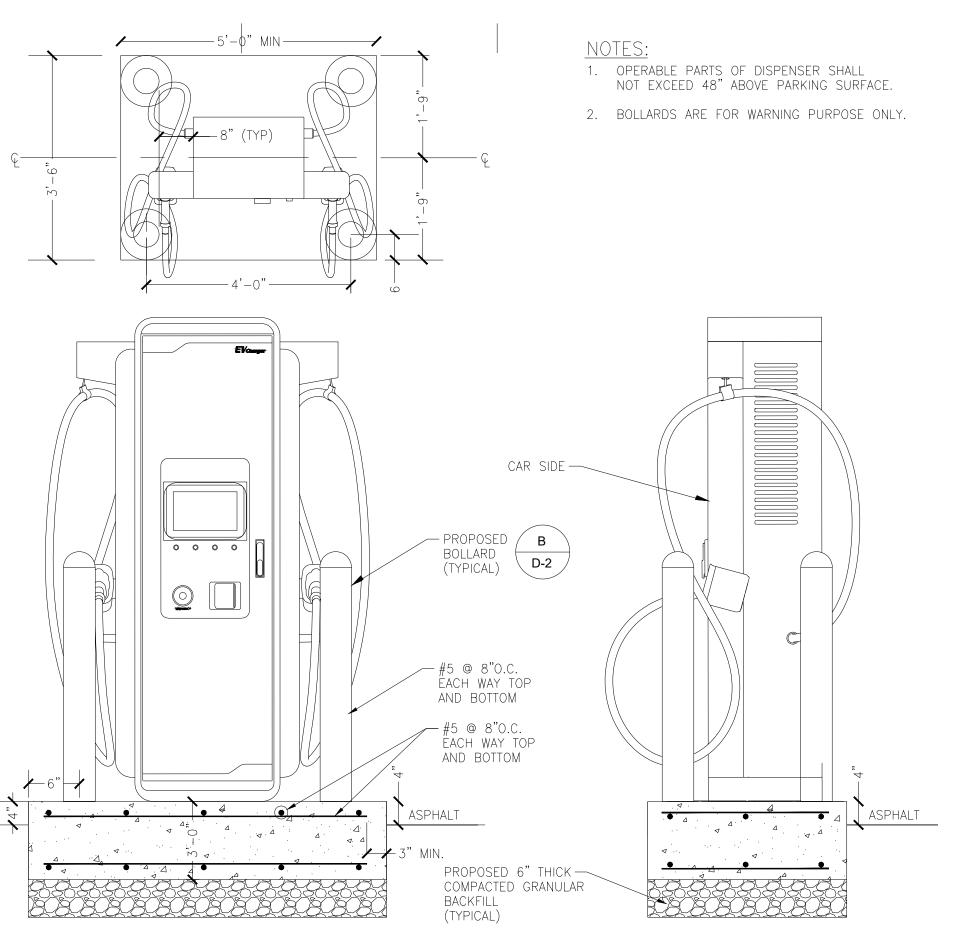
SEAL SIGN AND SEAL





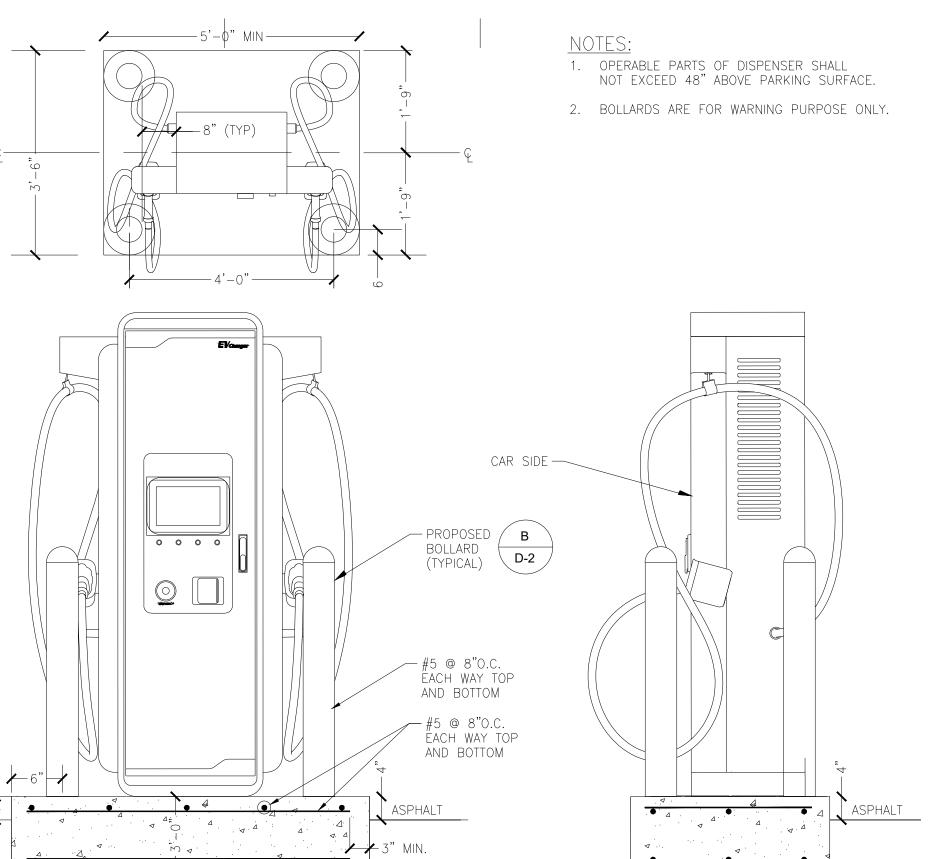


- 1. PROVIDE 4.5" SPACING BETWEEN STENCILS
- 2. LOCATION: CENTER AT FOOT OF PARKING STALL
- 3. FONT: STANTARDGOTHIC
- 4. COLOR: WHITE ON EXISTING SURFACE (NO FILL INSIDE STENCIL)

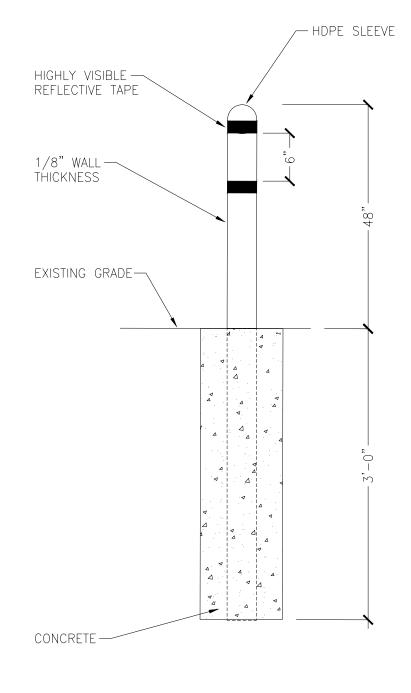


FRONT

FINISHED GRADE



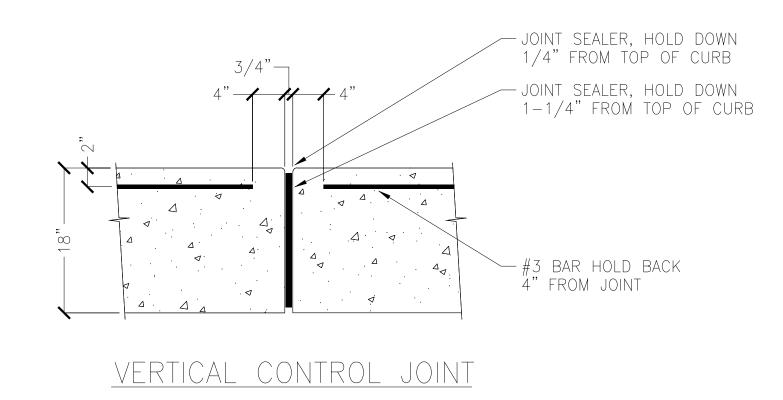
1. BOLLARD IS FOR WARNING PURPOSES ONLY. 2. BOLLARD DETAIL FOR BOLLARDS AROUND EV EQUIPMENT.



6" WARNING BOLLARD DETAIL

GENERAL





DISPENSER FOOTING DETAIL

ASPHALT SEALANT

- CONCRETE MIX

SUBGRADE

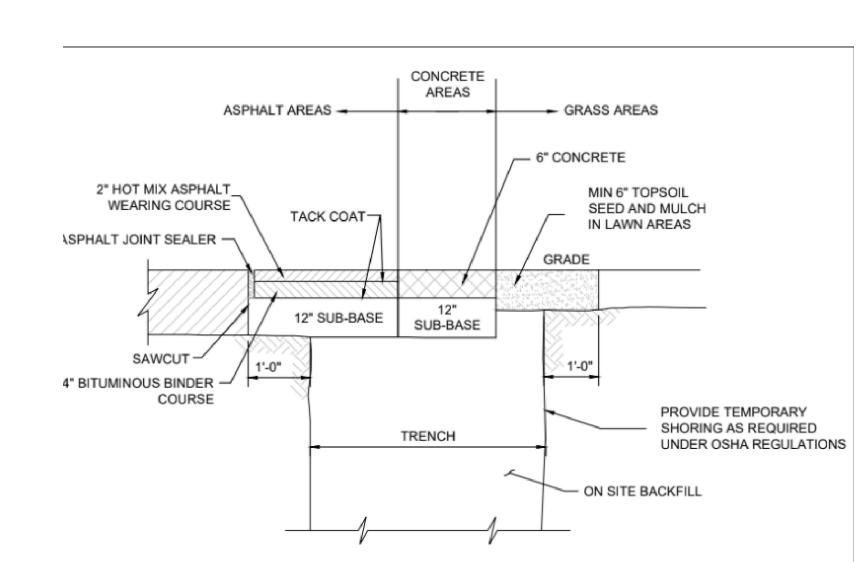
— 304 AGGREGATE BASE

- 301-ASPHALT CONCRETE BASE

COMPACTED OR UNDISTURBED

— ASPHALT PAVEMENT





2.0 | 07.23.2025 | REVISED AS REQUESTED 1.0 | 06.03.2025 | INITIAL DESIGN LAYOUT DESCRIPTION REV DATE PROJECT NAME

CLIENT, PROPERTY OR OWNERS INFORMATION

DESIGN CONSULTANT:

CONTRACTOR or VENDOR:

103 School St,

LEGAL NOTES:

architect/ÉOR Do not scale drawings

KEY PLAN:

Lindenhurst, NY 11757

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on this drawing and/or in this specification in anyway. If any such item is altered, the altering engineer shall affix to

unless he or she is acting under the direction of a

SOUTH PLANK HOLDINGS, LLC

289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

ELECTRIC VEHICLE CHARGING STATIONS INSTALLATION AT

> 209 S PLANK RD NEWBURGH, NY 12550

SHEET TITLE

E-800

DETAILS

SIGN AND SEAL

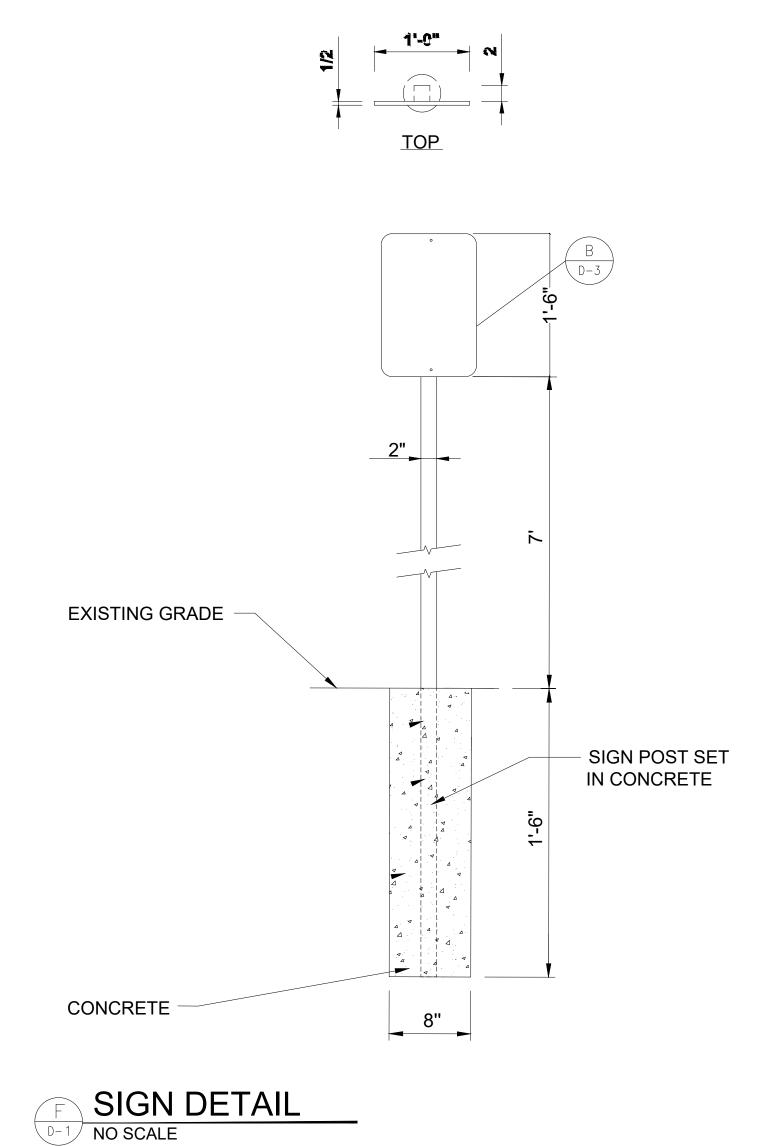
PROJECT NO: 209 S PLANK TAX MAP DATA: SCALE: DRAWN BY: KS KSUAREZ@WOODHOLLOWDESIGNS.COM CHECKED BY:

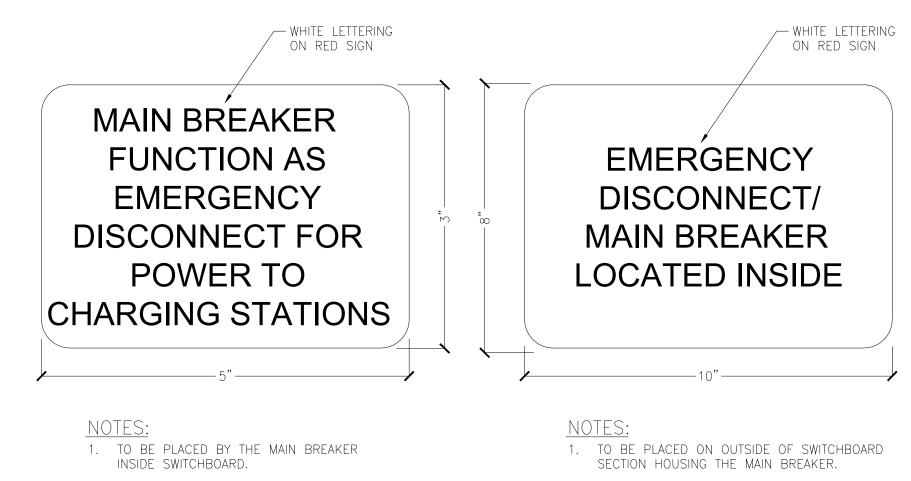
TRENCH RESTORATION DETAIL

STANDARD STALL MARKINGS DETAIL

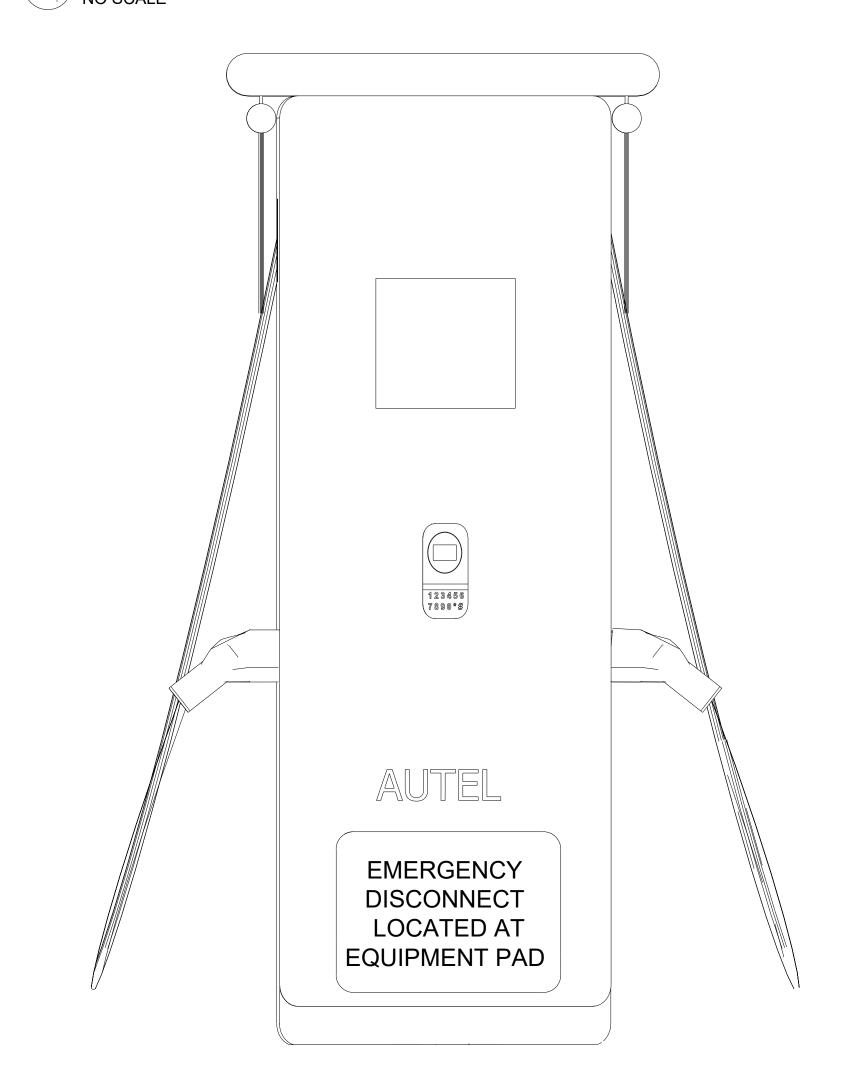
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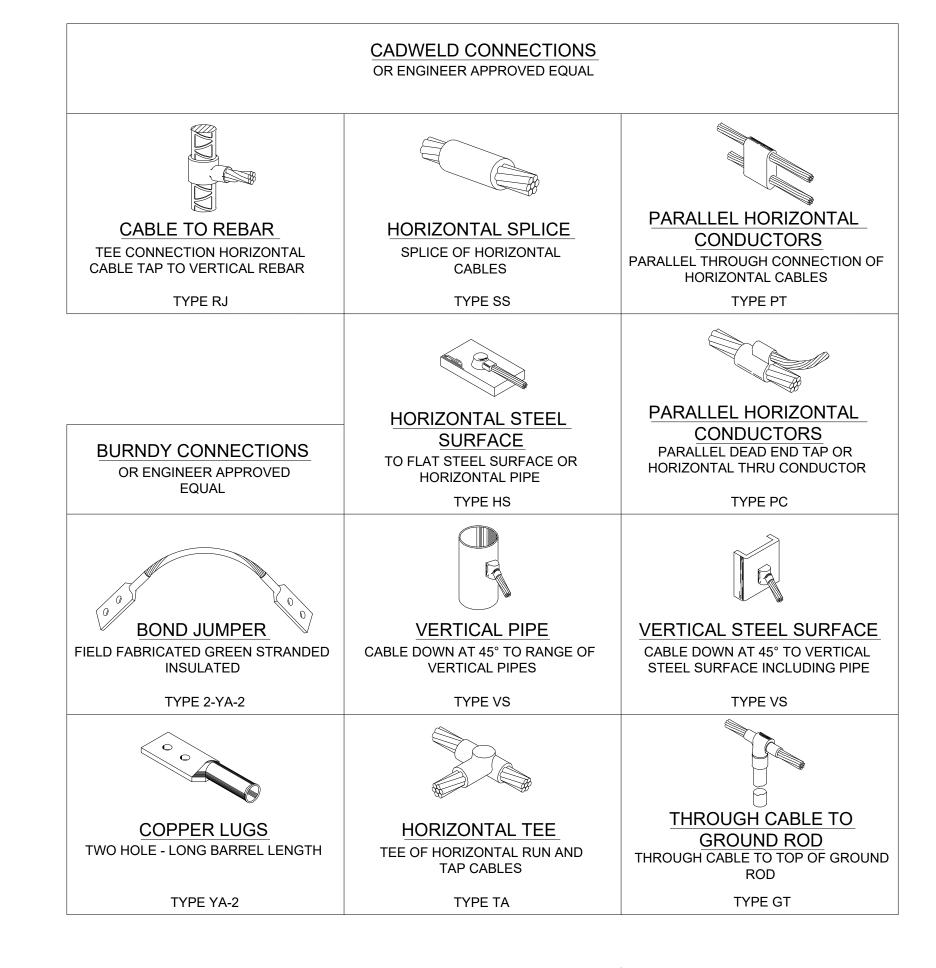
- 1. BOLLARD IS FOR WARNING PURPOSES ONLY.
- 2. CONTRACTOR TO CUT HOLE IN TOP OF PROVIDED BOLLARD COVER AND SMOOTH EDGES TO PREVENT CUT HAZARD
- 3. CONTRACTOR TO PROVIDE (2) 6' LONG, 1/2" THICK FOAM STRIPS CROSSED OVER TOP OF STEEL PIPE TO STABILIZE SLIP COVER





G EMERGENCY DISCONNECT SIGN DETAIL





CONCRETE ENCASED ELECTRODE DETAIL

NO SCALE

CLIENT, PROPERTY OR OWNERS INFORMATION

SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

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CONTRACTOR or VENDOR:



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2.0	07.23.2025	REVISED AS REQUESTED
1.0	06.03.2025	INITIAL DESIGN LAYOUT

DESCRIPTION

PROJECT NAME

REV DATE

ELECTRIC VEHICLE
CHARGING STATIONS
INSTALLATION AT
209 S PLANK RD

NEWBURGH, NY 12550

SHEET TITLE

E-801

DETAILS

SIGN AND SEAL

PROJECT NO: 209 S PLANK
TAX MAP DATA: 60 - 3 - 2
SCALE: AS NOTED
DRAWN BY: KS
KSUAREZ@WOODHOLLOWDESIGNS.COM
CHECKED BY:

H EMERGENCY DISCONNECT SIGN DETAIL EV CHARGERS

NO SCALE

GROUND CABLE TO CRUSHED ROCK OR TRANSFORMER WASHED STONE (10 FT./ MIN. GROUND ROD — ABOVE PAD) CRUSHED ROCK WASHED STONE GROUND ROD GROUNDING ELECTRODE CONDUCTOR (BARE COPPER WIRE). NOTE #11 PLAN — 10 FT. SLACK MINIMUM. SLOPE SURFACE TO DIVERT SURFACE WATER COVER SEAL ALL CONDUIT CONNECTIONS AND OPEN ENDS WATERTIGHT. GROUND ROD GROUND ROD CRUSHED ROCK OR WASHED STONE ELEVATION

FIGURE 1

CENTRAL HUDSON GAS & ELECTRIC CORP.

THREE PHASE PAD SPECIFICATIONS

5-34.5 KV

75-2000 KVA

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INSTALLATION AT

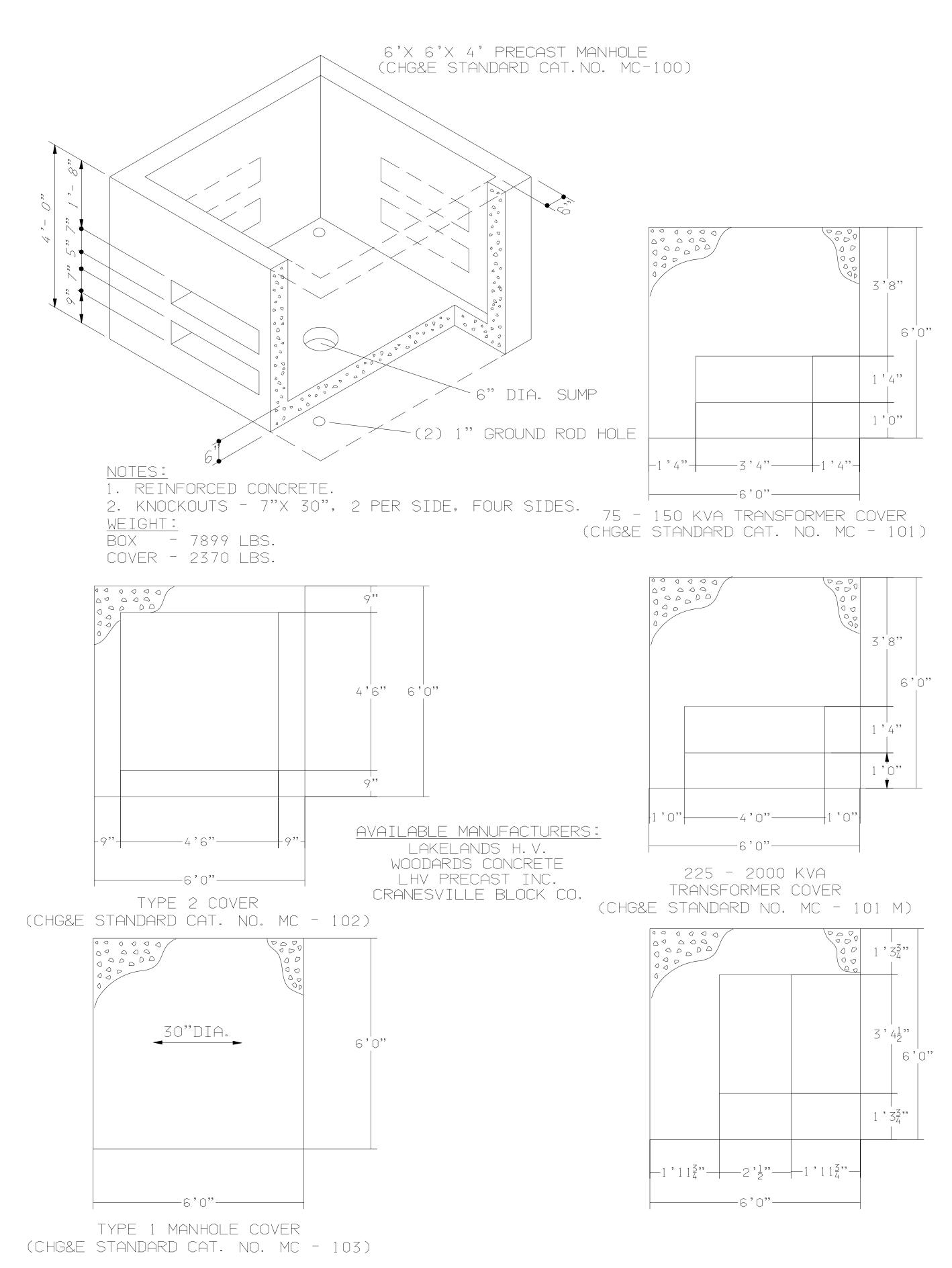
209 S PLANK RD
NEWBURGH, NY 12550

SHEET TITLE

E-802

TRANSFORMER DETAILS

SEAL SIGN AND SEAL



NOIES.

- 1. THE CUSTOMER WILL NORMALLY PROVIDE THE PAD FOR THREE PHASE PAD-MOUNTED TRANSFORMERS, THE STANDARD IS INTENDED AS A GUIDE FOR PROVIDING THE SPECIFICATIONS FOR PAD INSTALLATIONS APPLICABLE TO PAD-MOUNTED TRANSFORMERS OF VARIOUS KVA SIZE AND DIMENSIONS, THE STANDARD INSTALLATION USES A PRE-CAST CONCRETE BASE AND COVER, THE CONCRETE BASE IS OF UNIFORM SIZE AND UTILIZES COVERS WITH DIFFERENT SIZED WINDOW OPENINGS TO ACCOMMODATE THE KVA SIZE OF THE PAD-MOUNTED TRANSFORMER, DETAILED SPECIFICATIONS AND INSTALLATION REQUIREMENTS ARE PROVIDED IN PAGES 1 TO 3 OF THIS STANDARD.
- 2. THE SIDES AND REAR OF THE PAD SHALL BE A MINIMUM OF TEN (10) FEET FROM THE WINDOWS AND FIRE ESCAPES AND A MINIMUM OF THREE (3) FEET (TEN (10) FEET PREFERRED) FROM ALL BUILDINGS, FENCES, OR OTHER OBSTRUCTIONS WHICH WILL IMPEDE THE FREE FLOW OF COOLING AIR AROUND THE TRANSFORMER. THE FRONT OF THE PAD (WINDOW SIDE) SHALL HAVE A MINIMUM OF TEN (10) FEET OF UNOBSTRUCTED WORKING SPACE.
- 3. ACCESS TO PAD AREA BY VEHICLE MUST BE POSSIBLE AT ALL TIMES TO INSURE PROPER OPERATION AND MAINTENANCE FUNCTIONS.
- 4. STONE FOR BASE AND SIDES OF THE BOX PAD SHALL BE 3/4" MINIMUM TO 1-1/2" MAXIMUM CRUSHED ROCK OR WASHED STONE MAY BE USED FOR TOP 6" IN LOCATIONS WHERE WINDOW BREAKAGE MAY BE A PROBLEM. FOR THE BASE, STONE SHALL BE PLACED ON UNDISTURBED OR WELL TAMPED EARTH.
- 5. AREA AROUND THE BOX PAD SHALL BE GRADED SO THAT SURFACE WATER WILL DRAIN AWAY FROM CRUSHED STONE OIL CONTAINMENT.
- 6. THE BOX PAD SHALL BE INSTALLED SUCH THAT THE TOP SURFACE IS LEVEL TO WITHIN 1/4" HIGH TO LOW.
- 7. IN GENERAL, 4" OR 6" CONDUIT SHOULD BE USED FOR BOTH PRIMARY AND SECONDARY CONDUCTORS.

 HOWEVER, THE SECONDARY CONDUIT SHOULD BE SIZED ACCORDING TO THE SECONDARY CONDUCTORS BEING INSTALLED.
- 8. PERMANENT SUPPORT SHALL BE PROVIDED FOR THE SECONDARY CONDUCTORS SUCH THAT THE TOTAL WEIGHT SUPPORTED BY EACH TRANSFORMER BUSHING SHALL NOT EXCEED TEN POUNDS. THUS SINGLE RUNS OF 500 MCM COPPER AND LARGER, 1000 MCM AL AND LARGER AND PRACTICALLY ALL MULTIPLE CONDUCTOR RUNS NEED TO BE SUPPORTED TO LIMIT THE STRESS ON THE BUSHINGS.
- 9. CENTRAL HUDSON RESERVES THE RIGHT TO REQUIRE SUITABLE BARRIERS IN TRAFFIC AREAS TO REDUCE THE PROBABILITY OF DAMAGE DUE TO TRUCKS, AUTOMOBILES, CONSTRUCTION EQUIPMENT, AND THE LIKE. SUITABLE BARRIERS MIGHT BE 4" (MINIMUM) STEEL PIPE, FILLED WITH CONCRETE, SET 4 FT. DEEP AND EXTENDING 3 TO 4 FEET ABOVE GROUND. BARRIERS SHOULD BE SET BEYOND THE OIL CONTAINMENT IN LOCATIONS WHICH WILL INTERCEPT VEHICLES YET NOT INTERFERE WITH THE INSTALLATION OR REMOVAL OF THE TRANSFORMER.

10. ALL GROUNDING MUST BE IN ACCORDANCE WITH COMPANY SPECIFICATIONS.

- 11. SIZE THE GROUNDING ELECTRODE CONDUCTOR AS FOLLOWS:
- A. 200A AND SMALLER SECONDARY SERVICES: #4 AWG COPPER
- B. 400A SECONDARY SERVICES: #1/0 AWG COPPER
- C. LARGER THAN 400A SECONDARY SERVICES: #3/0 AWG COPPER

CLIENT, PROPERTY OR OWNERS INFORMATION

SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

DESIGN CONSULTANT:

CONTRACTOR or VENDOR:



103 School St, Lindenhurst, NY 11757

LEGAL NOTES:

"It is a violation of the state education law for any person, unless he or she is acting under the direction of a licensed professional engineer to alter an item in anyway, on this drawing and/or in this specification in anyway. If any such item is altered, the altering engineer shall affix to the item his or her seal and the notation "altered by" followed by his or her signature and the date of such alteration, and a specific description of the alteration."

- Any errors and omissions in the drawing are to be checked by the general contractor and relayed to the architect/EOR
- architect/EOR Do not scale drawings
- All work shall comply with the local building code(s) and with requirements of local AHJ

KEY	PLAN

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2.0 07.23.2025 REVISED AS REQUESTED

1.0 06.03.2025 INITIAL DESIGN LAYOUT

REV DATE DESCRIPTION

PROJECT NAME

ELECTRIC VEHICLE
CHARGING STATIONS
INSTALLATION AT
209 S PLANK RD

NEWBURGH. NY 12550

SHEET TITLE

E-803

TRANSFORMER DETAILS

SEAL SIGN AND SEAL PROJECT NO: 209 S PLANK
TAX MAP DATA: 60 - 3 - 2
SCALE: AS NOTED
DRAWN BY: KS
KSUAREZ@WOODHOLLOWDESIGNS.COM
CHECKED BY:

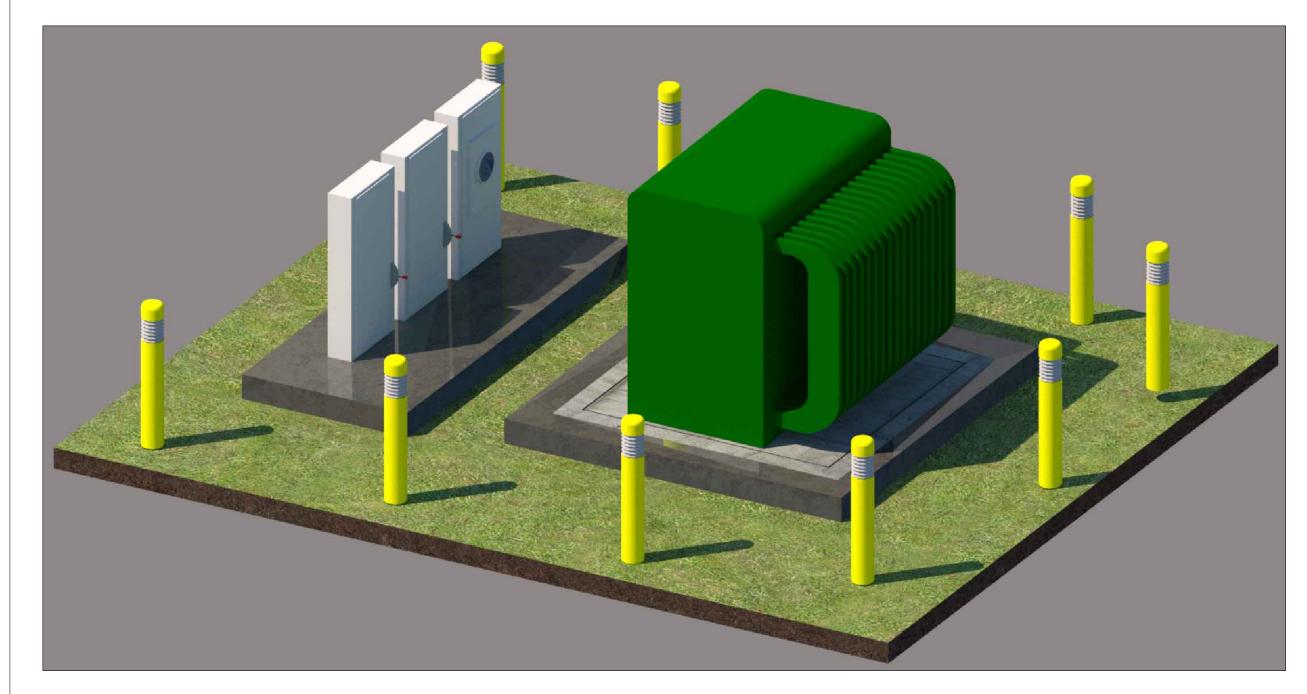
CENTRAL HUDSON GAS & ELECTRIC CORP.

THREE PHASE PAD SPECIFICATIONS

5-34.5 KV

75-2000 KVA

TREE PHASE PAD MOUNT TRANSFORMER & ELECTRICAL EQUIPMENT



THREE-PHASE PAD-MOUNTED TRANSFORMER, ELECTRICAL EQUIPMENT, AND EV CHARGERS – THIS RENDERING REPRESENTS A PROPOSED LAYOUT AT THE ADDRESS: 209 S PLANK RD, NEWBURGH, NY 12550. ALL ELEMENTS SHOWN IN THIS SECTION ARE FOR ILLUSTRATION PURPOSES ONLY AND DO NOT REPRESENT FINAL DESIGN OR INSTALLATION.

Space and Clearance Requirements:

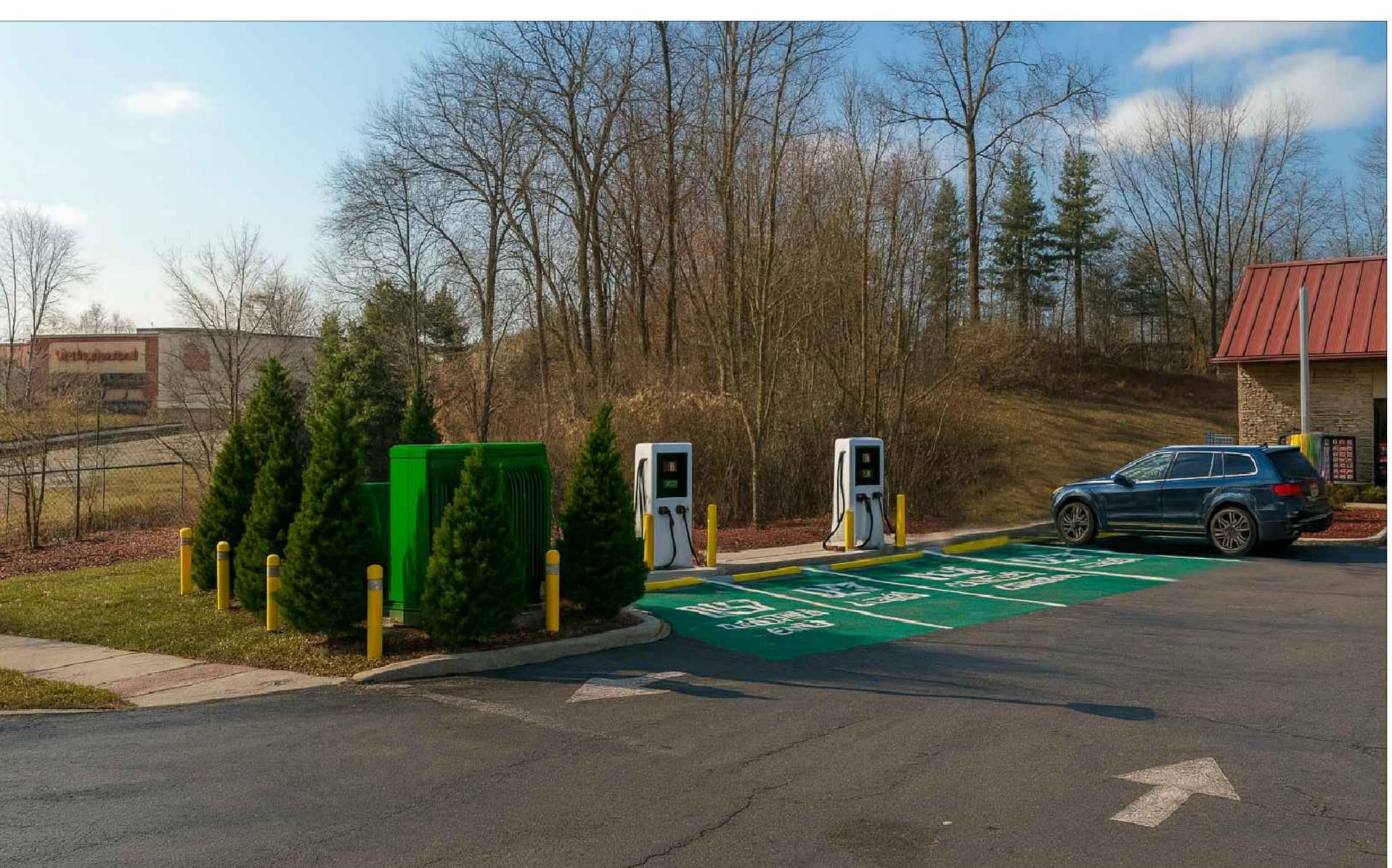
A minimum of 5 feet (1.5 meters) of clear space must be maintained in front of all transformer and switchgear doors to allow for safe access and operation.

The transformer shall be located at least 10 feet (3 meters) away from buildings with doors, windows, or other wall openings, unless a code-compliant fire-rated barrier is provided.

A minimum 10-foot clearance is required from any combustible materials, including wood structures, fencing, or dense vegetation.

- Concrete Pad Requirements:

The transformer and switchgear must be installed on an engineer-approved concrete pad, capable of supporting the equipment's weight.



The pad should be at least 8 feet by 8 feet (2.4 m x 2.4 m) and 6 to 8 inches thick (15–20 cm), reinforced and leveled according to the manufacturer's specifications and local standards.

- Accessibility and Safety:

Equipment must be accessible to utility crews and service personnel at all times.

Protective bollards (steel safety posts) shall be installed around the equipment, typically spaced 3 feet (1 meter) apart, to protect from vehicular damage.

A 3-foot (0.9 meters) working clearance must be maintained around all energized components and cabinets, in compliance with NEC Article 110.26.

- Aesthetic and Visibility Considerations:

Equipment shall not obstruct vehicular or pedestrian sightlines.

In visible or commercial areas, screening with landscaping or architectural barriers may be required to improve aesthetics.

Enclosures shall be tamper-resistant, weatherproof (NEMA-rated), and ideally painted in neutral or approved utility colors.

Note: All distances, layouts, and materials are conceptual and must be confirmed during final engineering. Approvals from local authorities, utility providers, and the City of Newburgh's Building Department are required prior to construction.

CLIENT, PROPERTY OR OWNERS INFORMATION

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DESIGN CONSULTANT:

CONTRACTOR or VENDOR:



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KEY PLAN:

2.0	07.23.2025	REVISED AS REQUESTED
1.0	06.03.2025	INITIAL DESIGN LAYOUT

DESCRIPTION

PROJECT NAME

REV DATE

ELECTRIC VEHICLE
CHARGING STATIONS
INSTALLATION AT

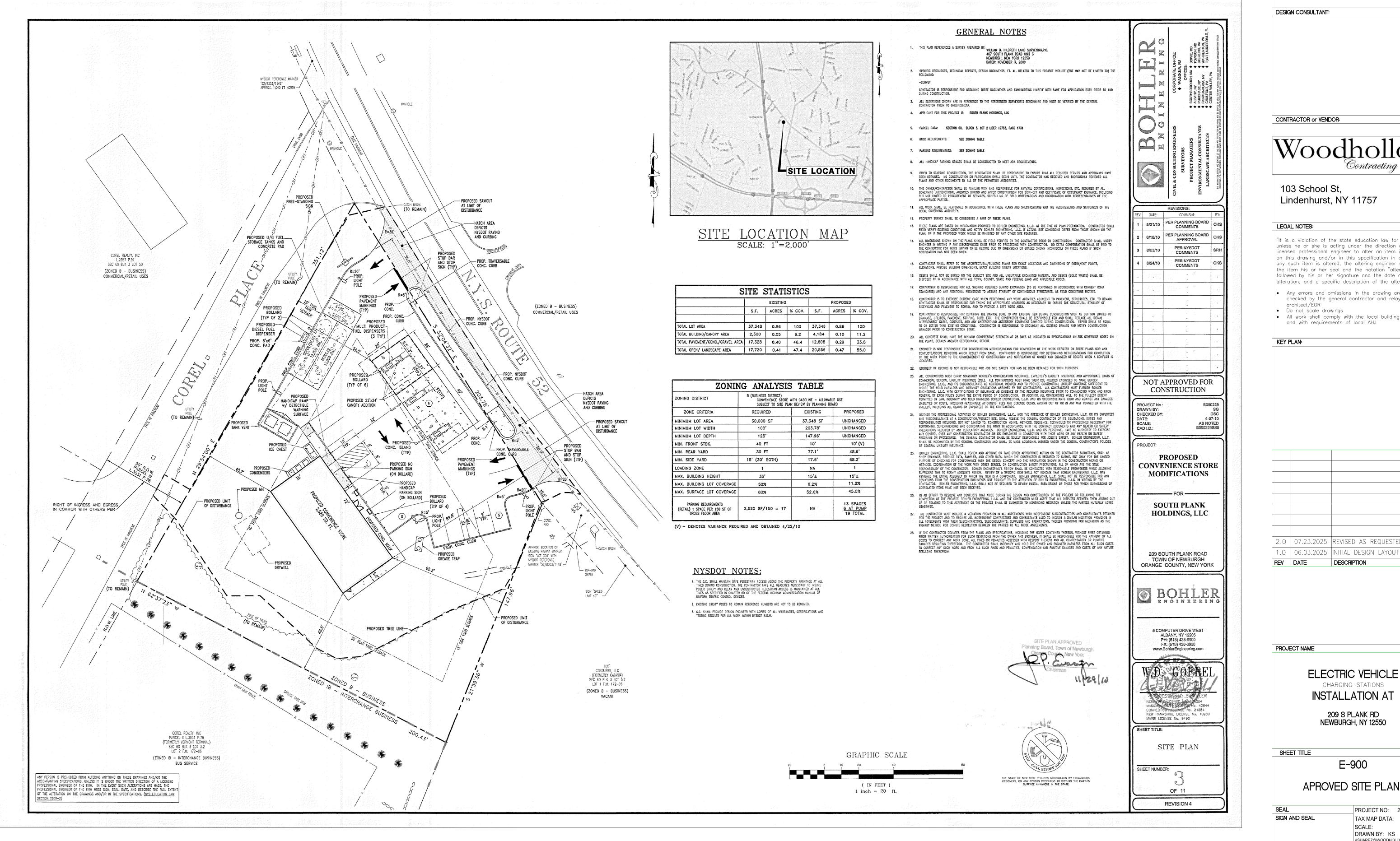
209 S PLANK RD
NEWBURGH, NY 12550

SHEET TITLE

E-803

TRANSFORMER DETAILS

SEAL SIGN AND SEAL



CLIENT, PROPERTY OR OWNERS INFORMATION

SOUTH PLANK HOLDINGS, LLC 289 N. PLANK RD SUITE 2 NEWBURGH, NY 12550

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Do not scale drawings

• All work shall comply with the local building code(s) and with requirements of local AHJ

KEY PLAN:

2.0 | 07.23.2025 | REVISED AS REQUESTED

DESCRIPTION

PROJECT NAME

ELECTRIC VEHICLE CHARGING STATIONS INSTALLATION AT 209 S PLANK RD NEWBURGH, NY 12550

SHEET TITLE

E-900

APROVED SITE PLAN

SIGN AND SEAL