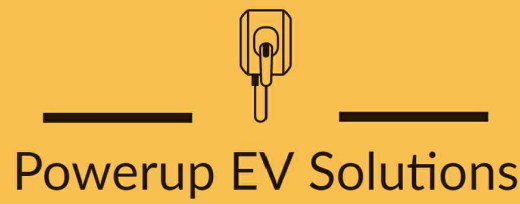
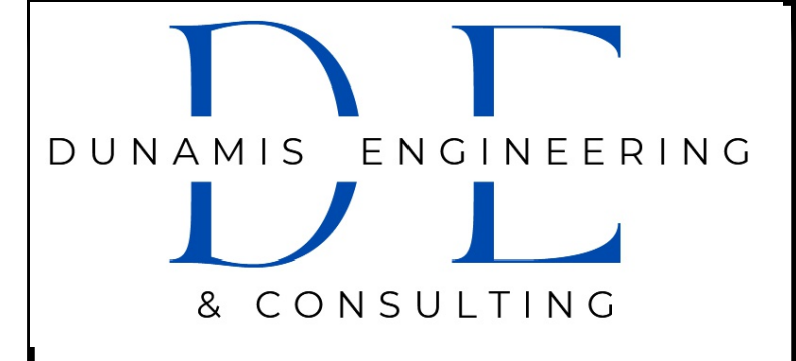


AHJ: VILLAGE OF MONTEBELLO



issue date				
11/21/25				
issued for				
PERMIT				
6	REV PER AHJ COMMENTS	11/21/25	SL	
4	CD100 REV2	09/26/25	SL	
3	CD100	09/11/25	SL	
2	CD90	08/22/25	SL	
1	UTILITY REVIEW	06/09/25	SL	
Nº	Revision	Date	By	



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ENGINEER AND MAY NOT BE DUPLICATED, USED OR DISCLOSED
WITHOUT WRITTEN CONSENT OF THE ENGINEER.



project name 10 INDIAN ROCK	
10 INDIAN ROCK SUFFERN, NY 10901	
project number 100.07	date 08/22/25
drawing name COVER SHEET	

drawing number	
C.001	
scale	NTS

CONTRACTOR VERIFICATION CHECKLIST

ITEM	TASK	YES	NO	N/A
1	CONTACT 811 UTILITY PRIOR TO EXCAVATION WORK.			
2	NOTIFY DUNAMIS OF ANY DISCREPANCIES W/ PLANS OR POTENTIAL CONFLICTS.			
3	VERIFY ALL FIELD CONDITIONS PRIOR TO START OF CONSTRUCTION IN ACCORDANCE WITH THESE PLANS.			
4	INSTALL WORK AREA PROTECTION MEASURES.			
5	FIELD LOCATE EXISTING UTILITIES AND CROSSINGS & VERIFY NO CONFLICTS W/PROPOSED INFRASTRUCTURE.			
6	FIELD VERIFY ALL STALL DIMENSIONS AND EQUIPMENT LOCATIONS.			
7	CONFIRM ALL ADA AND LOCAL REQUIREMENTS ARE MET.			
8	ESTABLISH TEMPORARY CONSTRUCTION ACCESS(ES).			
9	IMPLEMENT AND MAINTAIN EPSC CONTROL MEASURES PER LOCAL REQUIREMENTS.			
10	LOCATE VERTICAL AND HORIZONTAL UTILITIES PRIOR TO BORING.			
11	PROVIDE PROPOSED LIMITS OF ASPHALT OVERLAY SKETCH TO DUNAMIS (IF-NEEDED).			
12	SEED & STABILIZE ALL DISTURBED AREAS AFTER FINAL GRADING.			

CODE BLOCK

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE BUILDING/DWELLING, STRUCTURAL, PLUMBING, MECHANICAL, ELECTRICAL AND FIRE/LIFE SAFETY CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THE LOCAL GOVERNING AUTHORITIES CODES

PROJECT DESCRIPTION

INSTALLATION OF 8 DCFC ELECTRIC VEHICLE (EV) CHARGING STATIONS
WITH NEW 1200A UTILITY SERVICE AT 480V. RELOCATE EXISTING L2
CHARGERS IN PROCESS.

PROJECT TEAM

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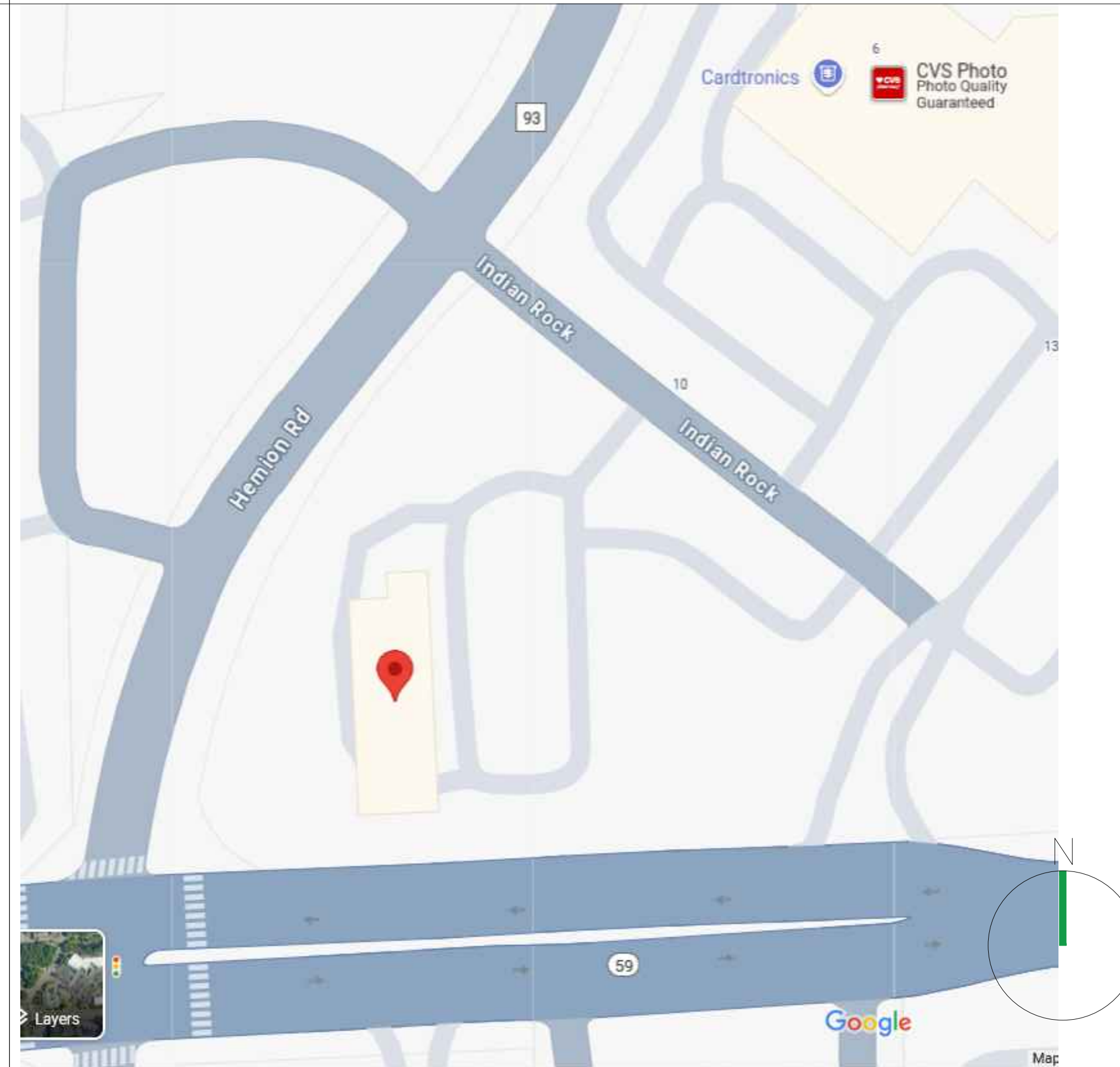
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LOCATION MAP



VICINITY MAP



SHEET INDEX

SHEET N°	DRAWING TITLE
C-001	COVER SHEET
C-002	GENERAL NOTES & SYMBOLS
C-100	EXISTING SITE PLAN
C-101	OVERALL SITE PLAN
C-102	ENLARGED SITE PLAN
C-200	DETAILS
C-201	DETAILS II
E-001	ONE-LINE DIAGRAM
E-002	ELECTRICAL PANEL SCHEDULES
E-200	ELECTRICAL DETAILS
E-201	ELECTRICAL DETAILS II
E-202	ELECTRICAL DETAILS III
E-203	ELECTRICAL DETAILS IV

DIG ALERT



Know what's BELOW
CALL before you dig.

CALL AT LEAST TWO WORKING
DAYS BEFORE YOU DIG

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING LOCATIONS, CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

GENERAL NOTES

1. CHARGER MANUFACTURER WILL PROVIDE AN INSTALLATION GUIDE AND OTHER SUPPORTING DOCUMENTS AT TIME OF CONSTRUCTION.
2. ALL EXISTING CONDITIONS SHOWN ARE APPROXIMATE. EXISTING UTILITY LOCATIONS AND CROSSINGS ARE TO BE LOCATED IN THE FIELD. CONTRACTOR IS TO CONTACT 811 UTILITY PRIOR TO BEGINNING ANY EXCAVATION WORK.
3. ALL PAVEMENT, LANDSCAPING, UTILITIES, AND OWNER PROPERTY THAT IS DAMAGED OR AFFECTED BY CONSTRUCTION SHALL BE RETURNED TO EXISTING CONDITIONS OR BETTER AT THE CONTRACTOR'S EXPENSE.
4. PROPOSED PAVEMENT STRIPING SHALL LINE UP WITH EXISTING STRIPING WHEREVER POSSIBLE. ADDITIONAL PAVEMENT STRIPE IS NOT NECESSARILY PARALLEL TO THE CONSTRUCTED CHARGING ISLAND.
5. THIS ACCESSIBILITY REVIEW WAS UNDERTAKEN TO IDENTIFY DESIGN FEATURES OF THE PROJECT THAT MAY BE CONSIDERED BY GOVERNMENTAL AGENCIES OR DEPARTMENTS, OR NON-GOVERNMENTAL GROUPS TO BE NON-COMPLIANT WITH THE AMERICANS WITH DISABILITIES ACT OF 1990, REVISED 2010 ADA REGULATIONS AND STANDARDS. THE AMERICANS WITH DISABILITIES ACT OF 1990 IS A FEDERAL CIVIL RIGHTS LAW, THERE IS NO FEDERAL REVIEW PROCESS TO ENSURE FULL COMPLIANCE WITH THE GUIDELINES, EXCEPT THROUGH THE FEDERAL COURT SYSTEM. THE DEPICTIONS, NOTES, AND RECOMMENDATIONS, EXPRESSED ON THIS PLAN ARE BASED ON PROFESSIONAL JUDGEMENT GAINED FROM PAST EXPERIENCE WITH ACCESSIBILITY LAWS, CODES, AND STANDARDS AND THE WORKING INVOLVEMENT TO DEVELOP ACCESSIBILITY STANDARDS THAT WILL MEET OR EXCEED THE APPLICABLE FEDERAL GUIDELINES. ACCORDINGLY, NO CLAIMS OR WARRANTIES, EXPRESSED OR IMPLIED, ARE MADE THAT IN PREPARING THIS PLAN AND PROPOSING RECOMMENDATIONS, THAT ALL POSSIBLE BARRIERS TO ALL PEOPLE HAVE BEEN IDENTIFIED.
6. CONTRACTOR SHALL VERIFY THAT ALL SLOPES WITHIN ADA STALL AND ACCESS AISLE AREAS DO NOT EXCEED 2.0% IN ANY DIRECTION. IF FIELD CONDITIONS ARE FOUND TO EXCEED ALLOWABLE SLOPES, CONTRACTOR SHALL NOTIFY THE ENGINEER AND OWNER PRIOR TO PERFORMING ANY CORRECTIVE WORK. NO ASPHALT OVERLAY OR PAVEMENT MODIFICATION IS INCLUDED AS PART OF THIS DESIGN UNLESS SPECIFICALLY SHOWN ON THE PLANS.
7. UNDER NO CIRCUMSTANCE IS THE CONTRACTOR TO DISRUPT ANY OPERATIONS AT THE SITE HOST LOCATION, INCLUDING BUT NOT LIMITED TO CUSTOMER DISRUPTION, UTILITIES, AND INFRASTRUCTURE. CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT WORK AREAS WITH CONES AND/OR BARRICADES AT ALL TIMES.

EROSION CONTROL AND GRADING NOTES

1. ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY LOCAL INSPECTOR.
2. DISTURBED AREAS LEFT IDLE FOR FIVE DAYS, AND NOT TO FINAL GRADE, WILL BE ESTABLISHED TO TEMPORARY VEGETATION. MULCH, TEMPORARY VEGETATION OR PERMANENT VEGETATION SHALL BE COMPLETED ON ALL EXPOSED AREAS WITHIN 14 DAYS AFTER DISTURBANCE. ALL AREAS TO FINAL GRADE WILL BE ESTABLISHED TO PERMANENT VEGETATION UPON COMPLETION.
3. WHEN HAND PLANTING, MULCH (HAY OR STRAW) SHOULD BE UNIFORMLY SPREAD OVER SEEDED AREA WITHIN 24 HOURS OF SEEDING. IF UNABLE TO ACCOMPLISH, MULCH SHALL BE USED AS A TEMPORARY COVER. CONCENTRATED FLOW AREAS AND ALL SLOPES STEEPER THAN 2.5:1 AND WITH A HEIGHT OF TEN FEET OR GREATER (DOES NOT APPLY TO RETAINING WALLS), AND CUTS AND FILLS WITHIN BUFFERS, SHALL BE STABILIZED WITH THE APPROPRIATE EROSION CONTROL MATTING OR BLANKETS.
4. THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING.
5. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION CONTROL AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED AS PART OF THIS CONTRACT.
6. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT RESULT FROM THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY UNDERGROUND UTILITIES TO REMAIN. THE CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES AND/OR CONFLICTS WITH EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.
7. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED SO THE SEDIMENT RUN-OFF WILL NOT CONTAMINATE SURROUNDING AREAS OR ENTER NEARBY STREAMS. STOCK PILE LOCATIONS SHALL BE COORDINATED WITH THE ENGINEER PRIOR TO GRADING ACTIVITIES. EROSION & SEDIMENT CONTROL PRACTICE SHALL BE INSTALLED PRIOR TO STOCKPILE OPERATIONS.
8. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
9. MULCH AND SEED ALL DISTURBED AREAS AS SOON AS POSSIBLE AFTER FINAL GRADING IS COMPLETED (WITHIN 15 DAYS OF ACHIEVED FINAL GRADES) UNLESS OTHERWISE INDICATED. CONTRACTOR SHALL TAKE WHATEVER MEANS NECESSARY TO ESTABLISH PERMANENT SOIL STABILIZATION. STEEP SLOPES (GREATER THAN 3:1) SHALL BE STABILIZED WITHIN 7 DAYS OF FINAL GRADING.
10. PROVIDE TEMPORARY CONSTRUCTION ACCESS(ES) AT THE POINT(S) WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA. MAINTAIN PUBLIC ROADWAYS FREE OF TRACKED MUD AND DIRT.
11. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.
12. SEQUENCE OF CONSTRUCTION INCLUDED ABOVE IS A GENERAL OVERVIEW, AND IS INTENDED TO CONVEY THE GENERAL CONCEPTS OF THE EROSION CONTROL DESIGN. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETAILED PHASING AND CONSTRUCTION SEQUENCING NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS INCLUDED IN THESE PLANS. THE CONTRACTOR SHALL NOTIFY ENGINEER IMMEDIATELY AND PRIOR TO CONSTRUCTION IF ANY ADDITIONAL DETAIL IS NECESSARY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPLYING WITH THE AHJ REQUIREMENTS.

ADA COMPLIANCE

1. CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
2. PRIVATE CURB RAMPS ON THE SITE (I.E. OUTSIDE PUBLIC STREET RIGHT-OF-WAY) SHALL CONFORM TO ADA STANDARDS AND SHALL HAVE A DETECTABLE WARNING SURFACE THAT IS FULL WIDTH AND FULL DEPTH OF THE CURB RAMP, NOT INCLUDING FLARES.
3. ALL ACCESSIBLE ROUTES, GENERAL SITE AND BUILDING ELEMENTS, RAMPS, CURB RAMPS, STRIPING, AND PAVEMENT MARKINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN, LATEST EDITION.
4. BEFORE PLACING PAVEMENT, CONTRACTOR SHALL VERIFY THAT SUITABLE ACCESSIBLE PEDESTRIAN ROUTES (PER ADA AND FHA) EXIST TO AND FROM EVERY DOOR AND ALONG SIDEWALKS, ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND ACCESSIBLE ROUTES. IN NO CASE SHALL AN ACCESSIBLE RAMP SLOPE EXCEED 1 VERTICAL TO 12 HORIZONTAL. IN NO CASE SHALL SIDEWALK CROSS SLOPE EXCEED 2.0 PERCENT. IN NO CASE SHALL LONGITUDINAL SIDEWALK SLOPE EXCEED 5.0 PERCENT. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 2.0 PERCENT SLOPE IN ANY DIRECTION.
5. CONTRACTOR SHALL TAKE FIELD SLOPE MEASUREMENTS ON FINISHED SUBGRADE AND FORM BOARDS PRIOR TO PLACING PAVEMENT TO VERIFY THAT ADA SLOPE REQUIREMENTS ARE PROVIDED. CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PAVING IF ANY EXCESSIVE SLOPES ARE ENCOUNTERED. NO CONTRACTOR CHANGE ORDERS WILL BE ACCEPTED FOR ADA SLOPE COMPLIANCE ISSUES.

SITE NOTES

1. HORIZONTAL DIRECTIONAL DRILLING (HDD) OR OTHER TRENCHLESS METHODS AS APPROVED BY SITE HOST ARE THE PREFERRED METHOD TO INSTALL CONDUIT BENEATH EXISTING PARKING LOTS AND PAVED AREAS.
- 1.1. CONDUIT SHALL BE INSTALLED AT A MINIMUM DEPTH OF TWO AND ONE-HALF FEET (2.5') OR BELOW THE FREEZE LINE, WHICHEVER IS DEEPER. CONDUIT TYPE AND DESIGN TO BE SPECIFIED BY EV CHARGING STATION VENDOR AND MEET ALL LOCAL REQUIREMENTS. CONDUIT DIAMETER SHALL BE NO LARGER THAN TWO (2) INCHES.
- 1.2. THE RECEIVING PIT SHALL BE LOCATED AS CLOSE AS REASONABLY POSSIBLE TO THE PROPOSED WALL PENETRATION TO LIMIT THE LENGTH OF BUILDING-MOUNTED CONDUIT. LOCATE RECEIVING PIT WITHIN ASPHALT PAVED AREA OR CONCRETE SIDEWALK AREA; RECEIVING PIT SHALL NOT BE LOCATED WITHIN THE UNLOADING PAD [SIX TO TEN INCH (6-10") REINFORCED CONCRETE SLAB AT THE REAR OF THE STORE], RECEIVING PIT LOCATION AND WORK AREA SHALL NOT AFFECT SITE HOST CUSTOMER OR DELIVERY TRAFFIC. SEE SUPPLEMENTAL DOCUMENTS, RECEIVING AREA DIAGRAM.
- 1.3. THE RECEIVING PIT SIZE SHALL BE LIMITED TO THREE FEET (3') BY THREE FEET (3') AND SHALL NOT UNDERMINE THE BUILDING FOUNDATION, ENCLOSURES OR CONCRETE UNLOADING PAD.
- 1.4. BACKFILL EXCAVATIONS AND REPAIR PAVEMENT PER SPECIFICATIONS BELOW.
- 1.5. WHERE CONCRETE PAVEMENT, SIDEWALK, ASPHALT PAVEMENT, CURBING, OR CURBING GUTTER IS REMOVED, THE WIDTH OF THE REMOVAL SHALL EXCEED THE ACTUAL WIDTH AT THE TOP OF THE TRENCH BY TWELVE INCHES (12") ON EACH SIDE OF THE TRENCH, OR A TOTAL OF TWO FEET (2') WIDER THAN THE TRENCH.
- 1.6. TRENCHING THROUGH THE CONCRETE RECEIVING PAD AT THE REAR OF THE STORE OR THE DRIVE-THRU SLAB IS NOT ALLOWED. ONLY TRENCHING THROUGH MINOR CONCRETE INSTALLATIONS SUCH AS SIDEWALKS WILL BE PERMITTED.
- 1.7. EXCAVATE TRENCHES TO A DEPTH FOUR INCHES (4") DEEPER THAN BOTTOM OF FINISHED PIPE ELEVATION.
- 1.8. THE BOTTOM WIDTH OF THE TRENCH SHALL BE AS REQUIRED TO PERMIT CONDUIT TO BE PROPERLY LAIN AND BACKFILL TO BE PLACED AND PROPERLY COMPACTED.
- 1.9. REMOVED PAVEMENT, CONCRETE AND EXCAVATED MATERIALS UNSUITABLE FOR USE AS BACKFILL SHALL BE DISPOSED OFFSITE.
- 1.10. BEDDING AND BACKFILL MAY BE MATERIAL EXCAVATED FROM THE TRENCH PROVIDED THAT IT IS FREE FROM DEBRIS AND ROCKS LARGER THAN ONE AND ONE-HALF INCHES (1-1/2").
- 1.11. OVER THE PIPE, IN LAYERS NOT EXCEEDING FOUR INCHES (4"), PLACE AND COMPACT SUITABLE FILL MATERIAL TO NINETY-FIVE PERCENT (95%) DRY DENSITY AS DETERMINED BY ASTM D698.
- 1.12. COMPACTING EQUIPMENT SHALL BE OF SUCH DESIGN, WEIGHT, AND QUALITY AS IS REQUIRED TO OBTAIN THE DENSITIES SPECIFIED HEREIN OR INDICATED ON THE DESIGN DRAWINGS. AREAS INACCESSIBLE TO SELF-PROPELLED COMPACTING EQUIPMENT SHALL BE COMPACTED OR CONSOLIDATED BY HAND-OPERATED MECHANICAL TAMPERS OR VIBRATORS.
- 1.13. RESTORE GRASS, LANDSCAPING, IRRIGATION AND ALL FEATURES TO THEIR PRECONSTRUCTION CONDITION.
2. ANY UTILITIES, PAVEMENT, IRRIGATION, LANDSCAPING OR OTHER SITE FEATURES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY EV CHARGING STATION VENDOR TO SITE HOST SPECIFICATION.
- 2.1. WHERE LANDSCAPING IS IMPACTED, IT IS THE RESPONSIBILITY OF EV CHARGING STATION VENDOR TO REPOSITION OR PROVIDE NEW LANDSCAPING WITHIN THE SITE HOST PROPERTY TO ENSURE COMPLIANCE WITH ANY CODE REQUIREMENTS.
- 2.2. WHERE PARKING LOT, SIDEWALK OR OTHER PAVED AREAS ARE IMPACTED OR DAMAGED, IT IS THE RESPONSIBILITY OF THE EV CHARGING STATION VENDOR TO REPAIR THE AREA TO LIKE NEW CONDITION, REPAIR SHOULD EXTEND BEYOND DAMAGED AREA TO NEAREST CLEAN BREAK THAT ALIGNS WITH ARCHITECTURAL BREAKS, MATERIAL JOINTS, PAVEMENT MARKINGS, ETC.
3. WHERE APPLICABLE, UTILITY SERVICE PROVIDER TO USE SITE HOST APPROVED ROE (RIGHT OF ENTRY) AGREEMENT. SITE HOST PROGRAM MANAGER WILL PROVIDE TEMPLATE WHEN NECESSARY.
4. ASPHALT PAVEMENT REMOVAL AND REPLACEMENT
- 4.1. SAW CUT THE PAVEMENT TO NEAT, STRAIGHT LINES TO THE FULL DEPTH OF THE PAVEMENT. PAVEMENT REMOVAL SHALL EXTEND A MINIMUM OF TWELVE INCHES (12") BEYOND THE EDGES OF THE REMOVAL AREA. ANY OTHER PAVEMENT AREAS DAMAGED DURING REMOVAL SHALL ALSO BE REPAIRED OR REPLACED AS NECESSARY
- 4.2. REMOVE THE PAVEMENT WITHOUT DAMAGING THE PAVEMENT THAT IS TO REMAIN IN-PLACE.
- 4.3. IF BASE REPLACEMENT IS REQUIRED, COMPACT THE IN-SITU SOILS TO NINETY-FIVE PERCENT (95%) ASTM D698 AND PLUS OR MINUS TWO PERCENT (2%) OF OPTIMUM MOISTURE CONTENT. REMOVE AND REPLACE ANY UNSUITABLE IN-SITU SOILS.
- 4.4. PLACE AND COMPACT BASE MATERIAL TO NINETY-FIVE PERCENT (95%) OF ASTM D698.
- 4.5. APPLY PRIME COAT TO AGGREGATE BASE IN COMPLIANCE WITH THE DOT SPECS. PRIME COAT SHALL NOT BE APPLIED MORE THAN TWENTY-FOUR (24) HOURS BEFORE ASPHALT PAVEMENT IS PLACED. APPLICATION RATE TO BE PER THE DOT SPEC.
- 4.6. CLEAN AND APPLY TACK COAT TO THE ENDS OF CURBS, EDGES OF CONCRETE SURFACES, EDGES OF MANHOLES AND INLETS AND EDGES OF SAW CUT PAVEMENT THAT WILL REMAIN IN-PLACE.
- 4.7. PLACE AND COMPACT HOT-MIX ASPHALT. HOT-MIX ASPHALT THICKNESS SHALL BE THE GREATER OF THE IN-PLACE ASPHALT OR THREE AND ONE-HALF INCHES (3.5"). ASPHALT MIX DESIGN SHALL BE BY THE CONTRACTOR.
- 4.8. PLANT MIXED ASPHALT BASE/BINDER COURSE: PROVIDE ONE COURSE LAID TO A MINIMUM COMPACTED THICKNESS OF TWO INCHES (2"). PLANT MIXED ASPHALT SURFACE COURSE: PROVIDE ONE COURSE LAID TO A MINIMUM COMPACTED THICKNESS OF ONE AND ONE-HALF INCHES (1-1/2").
- 4.9. FOR SMALLER JOBS, IT MAY NOT BE FEASIBLE TO INSTALL BINDER AND SURFACE COURSES, IN WHICH CASE SURFACE COURSE, PLACED AND COMPACTED IN TWO LIFTS, WILL BE ACCEPTED.
- 4.10. IF PLACING HOT MIX ASPHALT WITH A SHOVEL, BEGIN PLACING HMA AGAINST THE EDGES OF THE PATCH AND WORKING INWARD. HMA SHOULD NOT BE PLACED IN THE CENTER OF THE PATCH AND RAKED TOWARDS THE EDGES.
- 4.11. THE FIRST PASS OF THE ROLLER OR COMPACTION EQUIPMENT SHOULD BE ALONG THE EDGES OF THE PATCH TO PROPERLY FORM THE JOINT. THE ROLLER WHEEL OR COMPACTION EQUIPMENT SHOULD OVERHANG THE EXISTING PAVEMENT ONTO THE PATCH BY SIX INCHES (6"). AFTER THE PERIMETER OF THE PATCH HAS BEEN COMPACTED BEGIN TO WORK TOWARDS THE CENTER OF THE PATCH WITH SUCCESSIVE PASSES OFFSET BY SIX INCHES (6").
- 4.12. THE CONTRACTOR SHALL UTILIZE THE APPROPRIATE HEAVY COMPACTION EQUIPMENT TO ACHIEVE THE REQUIRED COMPACTION OF THE ASPHALT.
- 4.13. SEAL THE AREA AROUND THE EDGES WITH AN ELASTOMERIC LIQUID ASPHALT SEALER TO PROTECT AGAINST WATER INFILTRATION, INCLUDING ANY INADVERTENT OVERCUTS DURING THE SAW CUTTING PROCEDURE.

DEVELOPMENT COVERAGE NOTE:

1. THE PROPOSED EV CHARGING INSTALLATION CONSISTS PRIMARILY OF EQUIPMENT PADS AND TRENCHING. NO NET CHANGE IN IMPERVIOUS AREA OR NET INCREASE IN TOTAL LOT AREA.

PROJECT LEGEND
(SCALE VARIES PER SHEET)

<div>9 C3-01</div>	DETAIL N° SHEET N°
<div>-----</div>	PROPERTY LINE
<div>BREAK</div>	BREAK LINE
<div>=====</div>	EXISTING CURB AND GUTTER
<div>=====</div>	EXISTING PARKING STRIPE
<div>-----□-----□-----□-----</div>	EXISTING FENCE
<div>-----○-----</div>	EXISTING OVERHEAD POWER LINE
<div>=====</div>	EXISTING CONCRETE
<div>=====</div>	EXISTING GRAVEL AREA
<div>=====</div>	EXISTING LANDSCAPED AREA
<div>=====</div>	EXISTING TREE
<div>=====</div>	EXISTING SHRUB
<div>=====</div>	EXISTING ROCK
<div>=====</div>	EXISTING FIRE HYDRANT
<div>=====</div>	EXISTING CATCH BASIN / MANHOLE
<div>=====</div>	EXISTING POWER POLE
<div>=====</div>	EXISTING LIGHT POLE
<div>=====</div>	EXISTING SIGN POST
<div>=====</div>	EXISTING UTILITY / STRUCTURE
<div>=====</div>	EXISTING GAS VALVE
<div>=====</div>	EXISTING WATER VALVE
<div>=====</div>	EXISTING ELECTRICAL ROOM / PANEL / EQUIPMENT AREA
<div>=====</div>	EXISTING UNDERGROUND ELECTRICAL
<div>-----G-----G-----</div>	EXISTING UNDERGROUND GAS
<div>-----W-----W-----</div>	EXISTING UNDERGROUND WATER
<div>=====</div>	PROPOSED ELECTRICAL JUNCTION BOX
<div>=====</div>	PROPOSED COMMUNICATIONS CONDUIT
<div>=====</div>	PROPOSED COMMUNICATIONS JUNCTION BOX
<div>=====</div>	PROPOSED CURB AND GUTTER
<div>=====</div>	PROPOSED PARKING STRIPE
<div>=====</div>	PROPOSED CONCRETE WHEEL STOP
<div>=====</div>	PROPOSED CONCRETE PAD
<div>=====</div>	PROPOSED TREE PROTECTION
<div>=====</div>	PROPOSED TREX FENCING
<div>=====</div>	PROPOSED L2 CHARGING UNIT / CHARGING PEDESTAL FOUNDATION
<div>=====</div>	PROPOSED DUAL MOUNT L2 CHARGING UNIT / CHARGING PEDESTAL FOUNDATION
<div>=====</div>	PROPOSED SIGN POST
<div>=====</div>	PROPOSED SIGN POST W/ BOLLARD
<div>=====</div>	PROPOSED POST INSTALLED SIGN POST
<div>=====</div>	PROPOSED POST INSTALLED SIGN POST W/ BOLLARD
<div>=====</div>	PROPOSED WALL MOUNTED SIGN
<div>=====</div>	PROPOSED 4" ISOLATED PIPE BOLLARD
<div>=====</div>	PROPOSED METER
<div>=====</div>	PROPOSED TESLA V4 SUPERCHARGER POST
<div>=====</div>	PROPOSED TESLA V3 SUPERCHARGER CABINET

PARKING STALL SCHEDULE

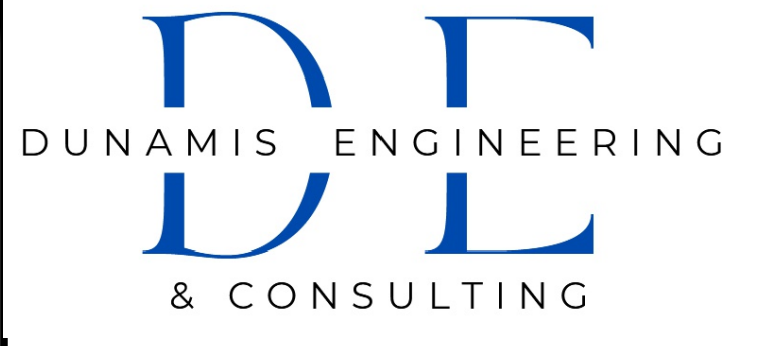
DESCRIPTION	QUANTITY
TOTAL EXISTING STALLS	312
TOTAL REQUIRED PARKING SPACES	295
PROPOSED EV ONLY STALLS	8
NET PARKING STALL CHANGE	-9
PROPOSED TOTAL STALLS	303



Issue date
11/21/25

issued for
PERMIT

5	REV PER AHJ COMMENTS	11/21/25	SL
4	CD100 REV2	09/26/25	SL
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seal



project name
10 INDIAN ROCK

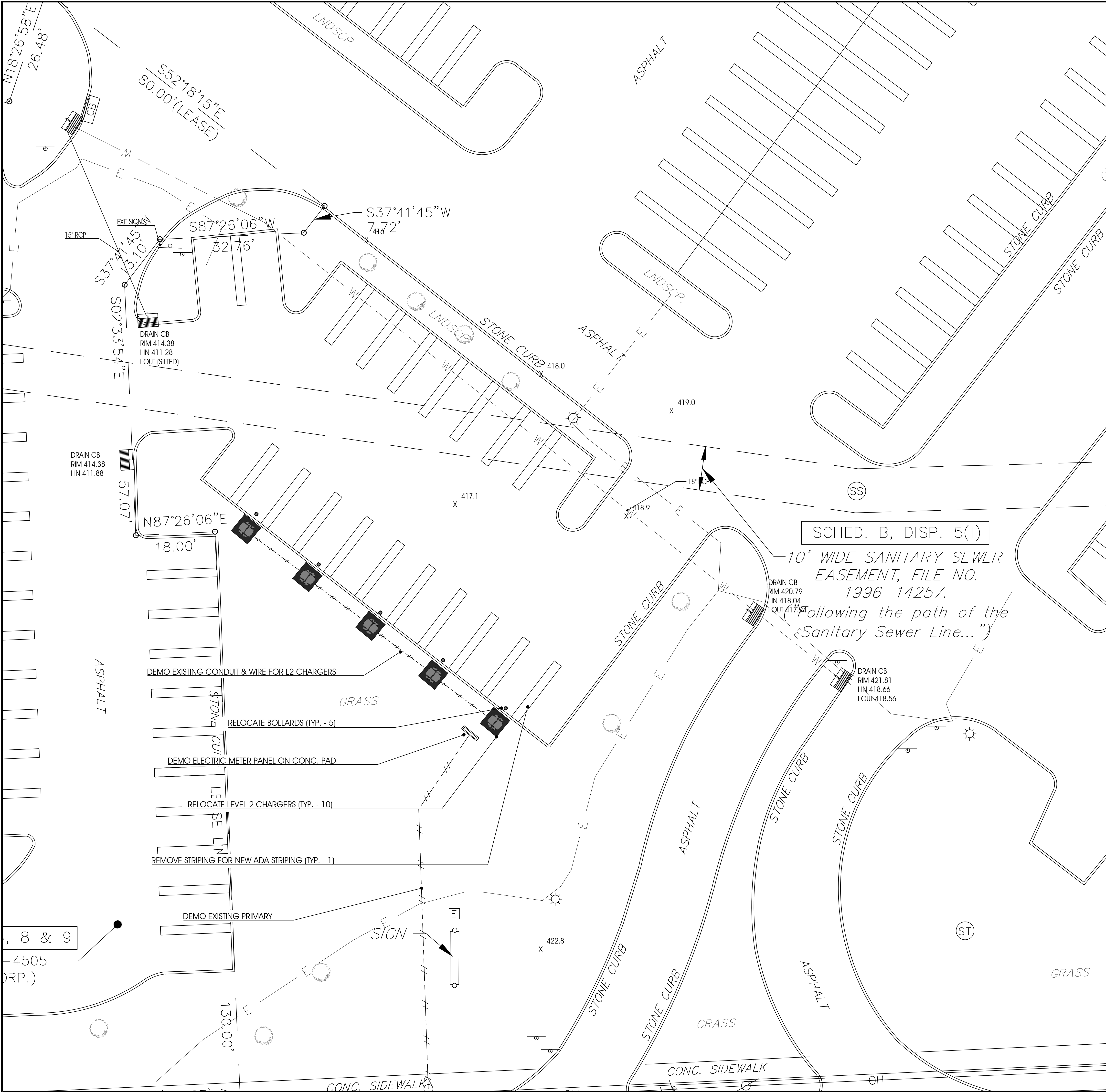
10 INDIAN ROCK
SUFFERN, NY 10901

project number	date
100.07	08/22/25

drawing name
GENERAL NOTES &
SYMBOLS

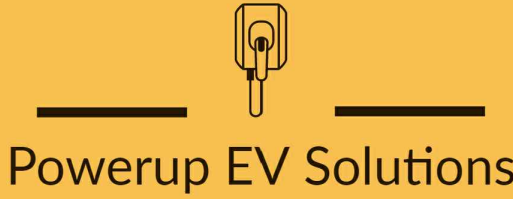
drawing number
C.002

scale
NTS



- DEMOLITION NOTES:
- 1) DISCONNECT AND REMOVE EXISTING LEVEL 2 EV CHARGERS, INCLUDING ASSOCIATED 208V PANEL, PEDESTAL MOUNTS/FOUNDATIONS, BOLLARDS, AND BRANCH CIRCUIT CONDUITS.
 - 2) PRESERVE AND PROTECT CHARGERS FOR REINSTALLATION ACROSS DRIVE AISLE PER NEW LAYOUT ON C-101. COORDINATE WITH OWNER FOR TEMPORARY STORAGE LOCATION & CONFIRM WHAT WILL BE RE-USED.
 - 3) COORDINATE WITH UTILITY TO DE-ENERGIZE TRANSFORMER CURRENTLY SERVING L2 CHARGERS.
 - 4) TAG AND IDENTIFY EXISTING BRANCH CIRCUITS FOR REUSE WHERE FEASIBLE. VERIFY WITH ENGINEER VOLTAGE DROP CALCULATIONS TO ENSURE ANY RE-USED CONDUCTORS ARE SUFFICIENTLY SIZED.
 - 5) ALL DEMOLITION DEBRIS TO BE PROPERLY DISPOSED OF OFF-SITE PER LOCAL CODE.

- NOTES:
1. SITE PLAN BASED ON PARTIAL TOPOGRAPHIC & LOCATION SURVEY, LOT 55 10-3-3 LOCATED IN THE VILLAGE OF MONTEBELLO, ROWN OF RAMAPO ROCKLAND COUNTY ON THE DATE OF JULY 11, 2025 BY SPARACO & YOUNGBLOOD PLLC.
 2. UTILITY CONNECTION TO BE MADE UNDER ORANGE & ROCKLAND UTILITIES STANDARDS, CONFIRM FINAL DESIGN PRIOR TO CONSTRUCTION.
 3. EXISTING UNDERGROUND UTILITIES LOCATED WITHIN AREA OF PROPOSED TRENCH & EQUIPMENT SITE AREA. HAND DIG AND RELOCATE AS REQUIRED.
 4. EXISTING CUSTOMER OWNED ELECTRICAL CONDUIT SHALL BE RELOCATED AS NEEDED DURING CONSTRUCTION.
 5. EXISTING STORM DRAIN INLETS TO BE COVERED WITH SILT BAG DURING CONSTRUCTION.
 6. CONTRACTOR TO CONFIRM ADA/ACCESSIBLE STRIPING & ASSOCIATED STALLS HAVE <2% GRADE IN ALL DIRECTIONS.
 7. CONTRACTOR TO COORDINATE FINAL LANDSCAPING FINISHES WITH OWNER.
 8. INSTALL FOUNDATIONS AND PEDESTALS AT RELOCATED CHARGER POSITIONS PER MANUFACTURER REQUIREMENTS. MATCH THE EXISTING CONDITION. INCLUDE NECESSARY REBAR AND ANCHOR BOLT TEMPLATES.
 9. RECONNECT AND TEST RELOCATED L2 CHARGERS PER MANUFACTURER INSTRUCTIONS. CONFIRM FUNCTIONALITY WITH OWNER PRIOR TO CLOSEOUT.
 10. COORDINATE FINAL INSPECTION WITH AHJ AND UTILITY, IF APPLICABLE.
 11. CONTRACTOR TO VERIFY FINAL MOUNTING HEIGHTS, CLEARANCE, AND REACHABILITY PER ADA AND NEC 625 REQUIREMENTS.



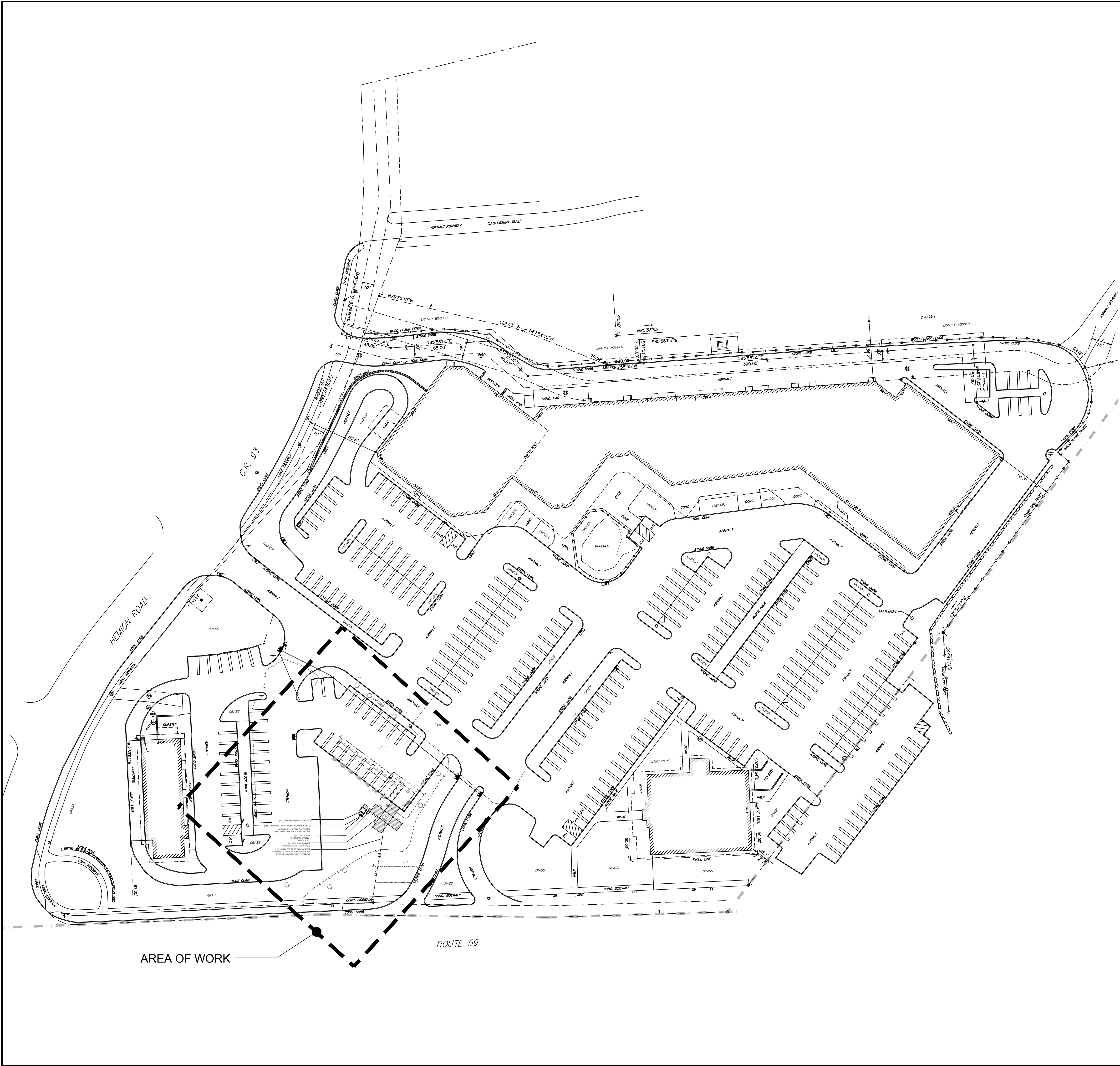
issue date			
11/21/25			
issued for			
PERMIT			
△	REV PER AHJ COMMENTS	11/21/25	SL
4	CD100 REV2	09/26/25	SL
3	CD100	09/11/25	SL
2	CD90	08/22/25	SL
1	UTILITY REVIEW	06/09/25	SL
Nº	Revision	Date	By

DUNAMIS ENGINEERING AND CONSULTING
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937 903 6066 samuel@dunamisenco.com

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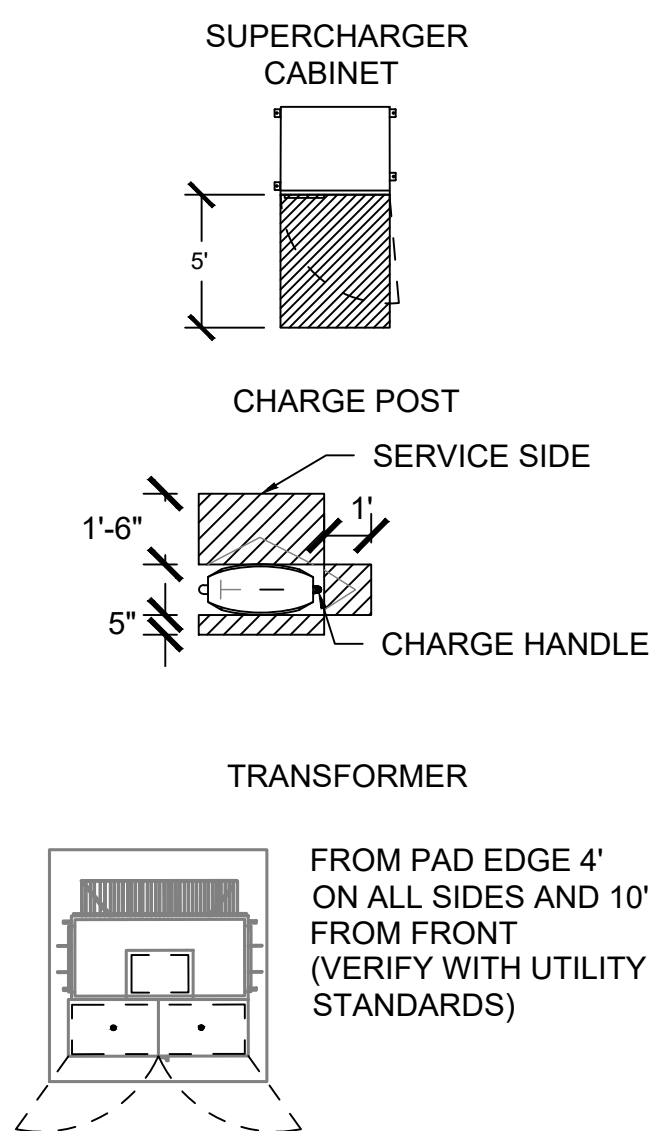
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10 INDIAN ROCK	
10 INDIAN ROCK SUFFERN, NY 10901	
project number	date
100.07	08/22/25
drawing name	
EXISTING SITE PLAN	
drawing number	
C.100	
scale	3/32"= 1'-0"



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- POWER NOTES:
1. CIRCUITS AND WIRING IS SHOWN ON ONE-LINE DIAGRAM. REFER TO E.001. PROVIDE CONDUITS, WIRES, ARMORED CABLE, AND BOXES REQUIRED TO ENERGIZE THE EQUIPMENT AS SHOWN.
 2. RUN LENGTHS ARE ESTIMATES ONLY. CONTRACTOR TO FIELD VERIFY REQUIRED QUANTITIES.
 3. VOLTAGE DROP CALCULATION FOUND ON ONE-LINE DIAGRAM FEEDERS. REFER TO E.001
 4. WHERE CONDUIT RUNS EXCEED MORE THAN (4) 90° BENDS IN THE HORIZONTAL, PROVIDE PULLBOX.
 5. REFER TO DETAILS SHEET FOR CHARGER SPECS.

MINIMUM SERVICE CLEARANCES



Powerup EV Solutions

issue date

11/21/25

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seal

project name

10 INDIAN ROCK

10 INDIAN ROCK
SUFFERN, NY 10901

project number	date
100.07	08/22/25

drawing name

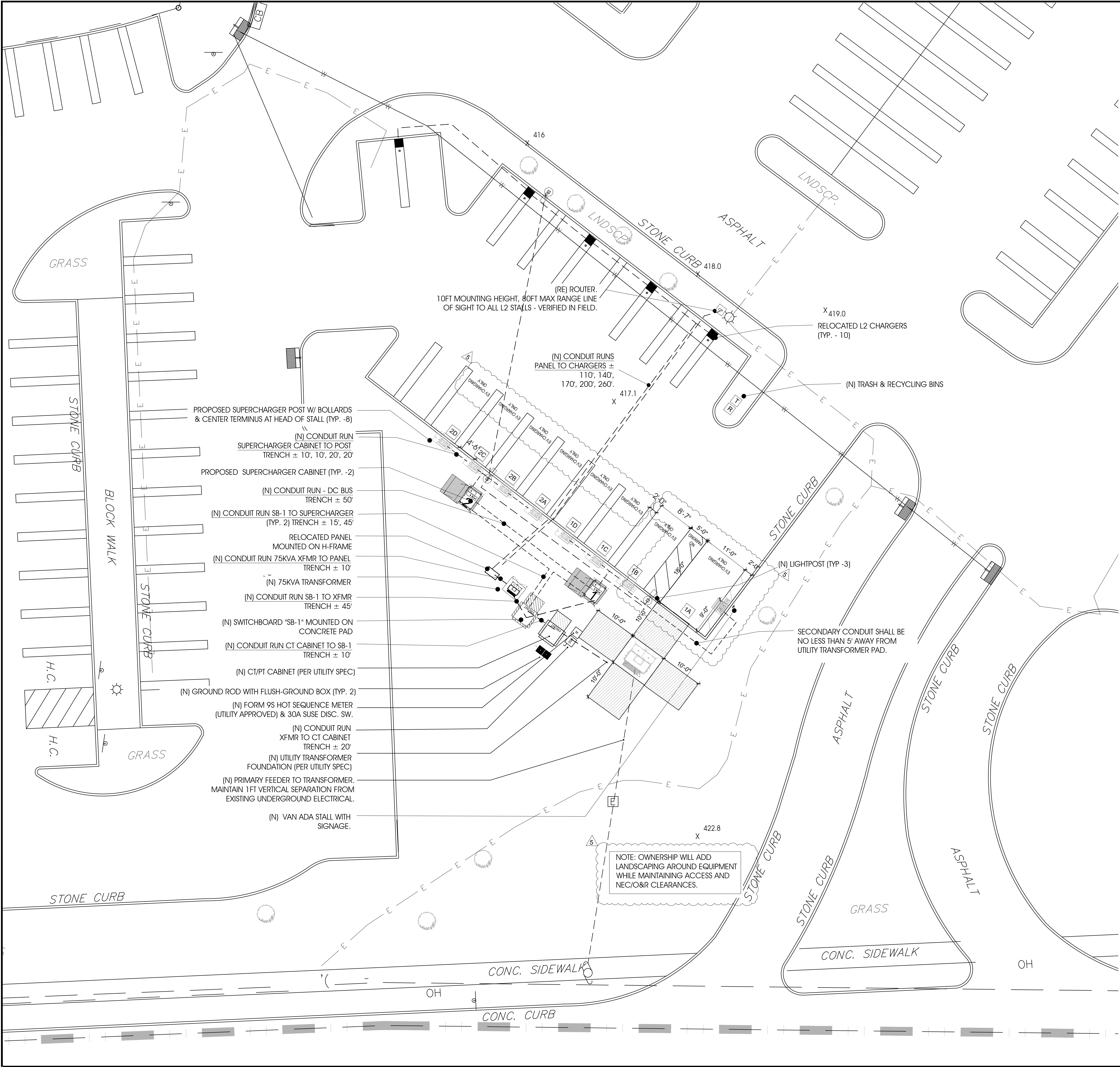
OVERALL SITE PLAN

drawing number

C.101

scale

1"=40'-0"



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seal



project name

10 INDIAN ROCK

10 INDIAN ROCK
SUFFERN, NY 10901

project number	date
100.07	08/22/25

drawing name

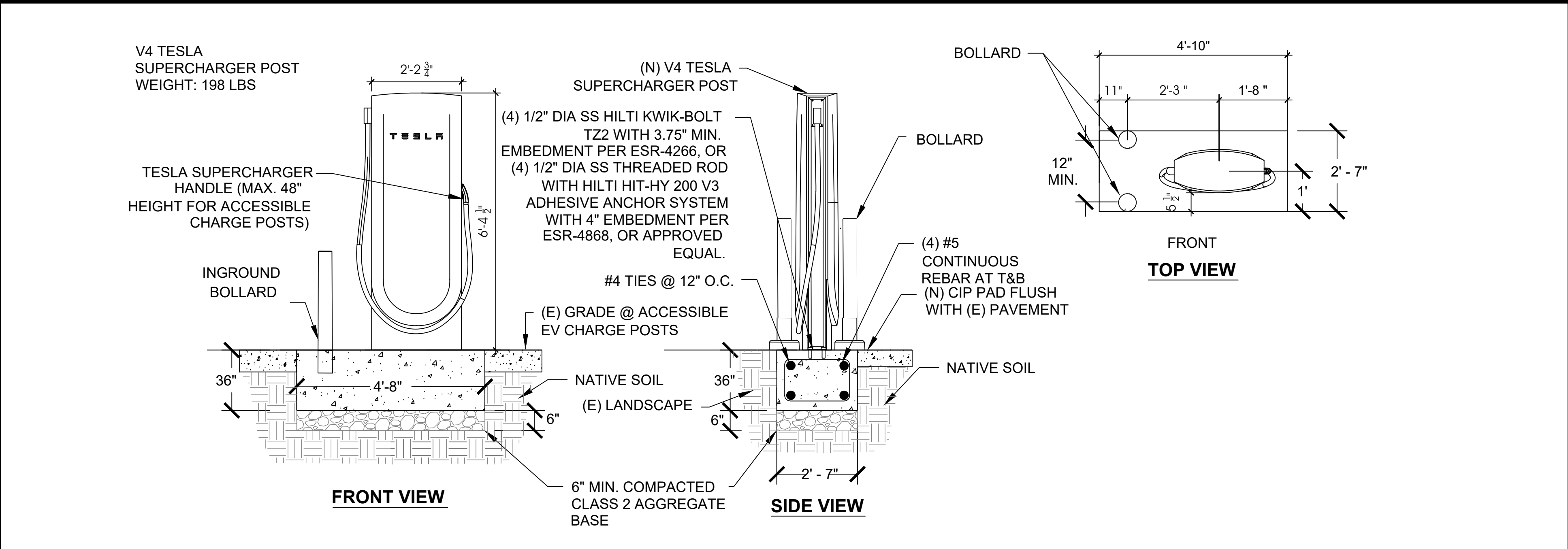
ENLARGED SITE PLAN

drawing number

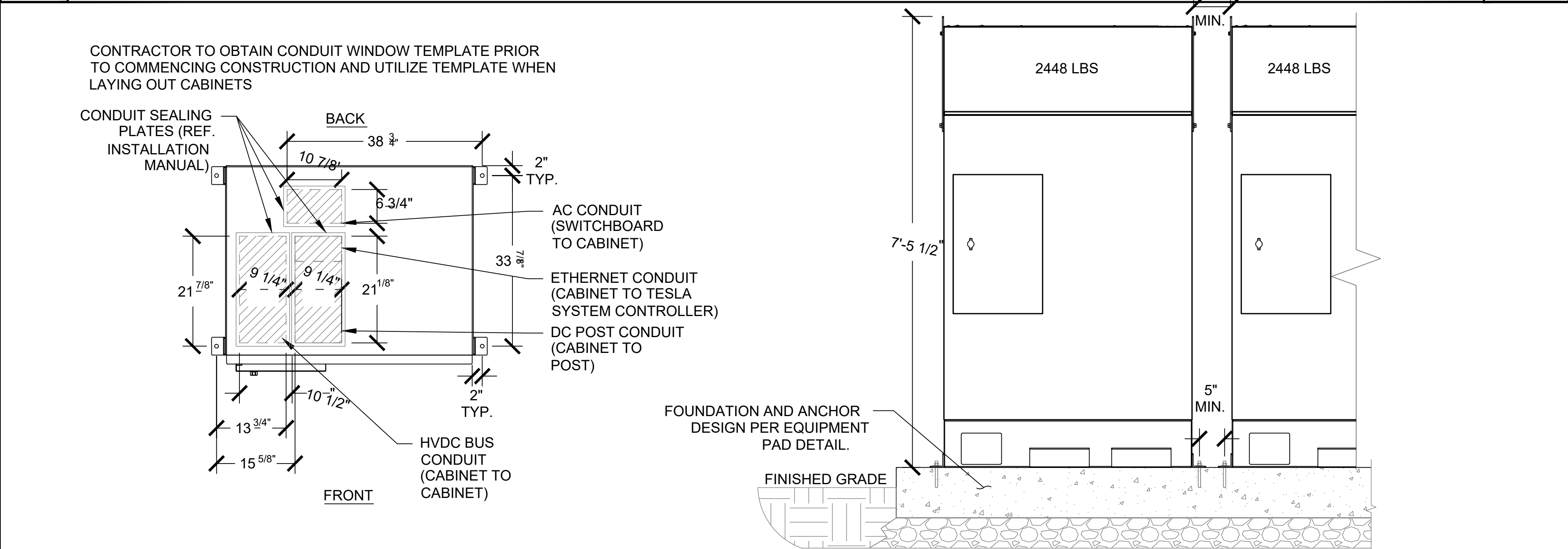
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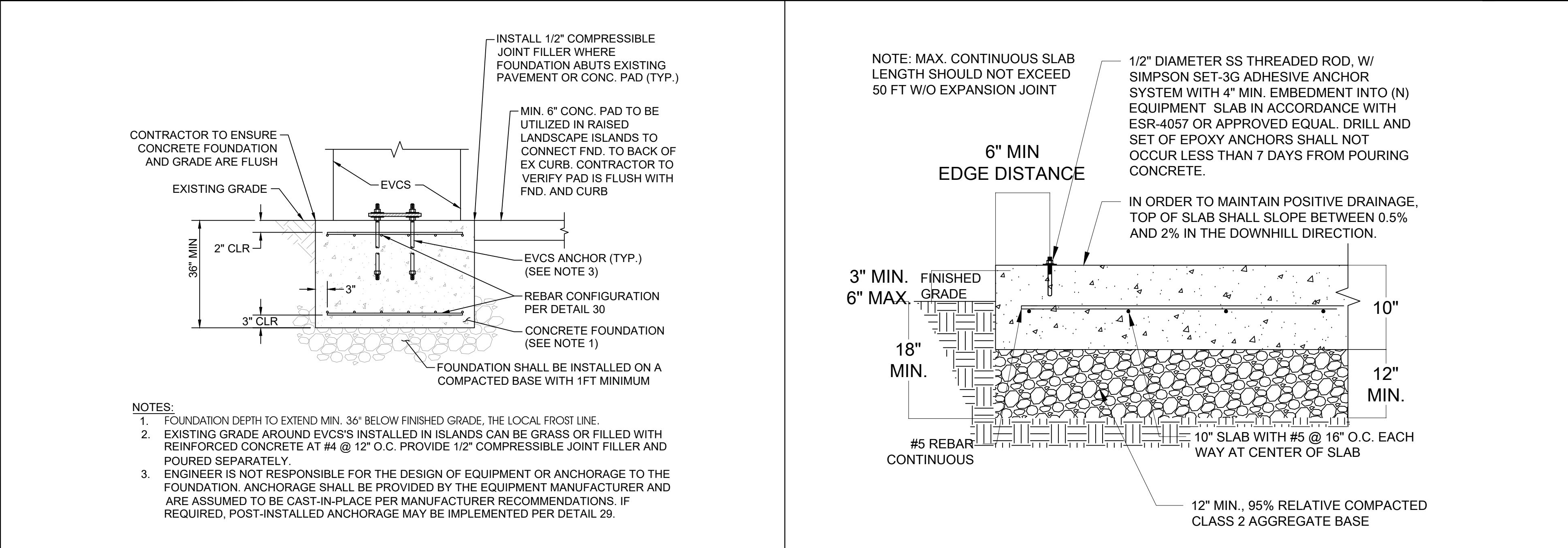
3/32"= 1'-0"



01 V4 SUPERCHARGER POST CAST-IN-PLACE FOUNDATION - 135MPH MAX



02 V3 SUPERCHARGER CAB. CONDUIT OPENINGS



03 LEVEL 2 EVSE FOUNDATION

04 EQUIPMENT PAD & ANCHOR SECTION (SNOW)

CONCRETE DESIGN (SNOW COUNTRY)

- ALL CONCRETE SHALL CONFORM TO THE LATEST EDITION OF THE ACI.
- CONCRETE SHALL BE NORMAL WEIGHT AND SHALL HAVE 4,500 PSI STRENGTH AT 28 DAYS.
- REINFORCED CONCRETE IN THE FOUNDATION SHALL BE OF NATURAL AGGREGATE CONFORMING TO ASTM C-33.
- TYPE I/II CEMENT TO MEET ASTM C150.
- REINFORCING STEEL - ASTM A615 WITH THE FOLLOWING STRENGTHS:

SIZE	STRENGTH:
#4 AND SMALLER	GRADE 60 (fy = 60000 PSI)
#5 AND LARGER	GRADE 60 (fy = 60000 PSI)
- FABRICATE AND PLACE REINFORCEMENT IN ACCORDANCE WITH ACI PUBLICATION SP-66, ACI DETAILING MANUAL - LATEST EDITION.
- PLACE CONCRETE IN COMPLIANCE WITH ACI 304. ALL CONCRETE SHALL BE MECHANICALLY VIBRATED.
- CONFORM TO ASTM C-94 FOR CONCRETE MIXING OPERATIONS.

9. CONCRETE COVER FOR REINFORCEMENT FOR NON-PRESTRESSED, CAST IN PLACE CONCRETE SHALL BE AS FOLLOWS:

CONDITION	COVER
CAST AGAINST EARTH	3"
EXPOSED TO WEATHER	
#5 AND SMALLER	1-1/2"
#6 AND LARGER	2"
SLAB-ON-GRADE	2"

- EMBEDS -ALL ITEMS TO BE CAST INTO CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES, SLEEVES, ETC., SHALL BE SECURELY AND ACCURATELY POSITIONED INTO THE FORMS PRIOR TO PLACING THE CONCRETE.
- ALL CONCRETE EXPOSED TO THE WEATHER TO BE AIR ENTRAINED AND SHALL CONFORM TO ASTM C-260.
- PROVIDE CONTINUOUS REINFORCING BARS UNLESS WHERE SPLICES ARE SPECIFICALLY SHOWN ON THE DRAWINGS.
- CALCIUM CHLORIDE ADMIXTURES OR ADMIXTURES CONTAINING CHLORIDE SALTS SHALL NOT BE ADDED TO THE CONCRETE.

STRUCTURAL DESIGN CRITERIA

DESIGN CODE: 2020 NYSBC
DESIGN CRITERIA:

- GEOTECHNICAL INFORMATION (ASSUMED)
ALLOWABLE BEARING PRESSURE = 1,500 PSF USED FOR EQUIPMENT FOUNDATION
- SNOW LOAD
GROUND SNOW LOAD = 30 PSF
- WIND DESIGN
DESIGN WIND SPEED = 114 MPH (ULTIMATE)
RISK CATEGORY = II
WIND EXPOSURE: C
- SEISMIC DESIGN
SEISMIC IMPORTANCE FACTOR = 1.0
SITE CLASS = D
 $S_s = .288 / S_1 = .061$
 $S_d_s = .302 / S_d1 = .097$
SEISMIC DESIGN CATEGORY = B
BASIC SEISMIC-FORCE-RESISTING SYSTEM = NON-STRUCTURAL COMPONENT
 $R = 2.5 / \alpha_p = 1.0$



Issue date

11/21/25

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SUFFERN, NY 10901

project number
100.07

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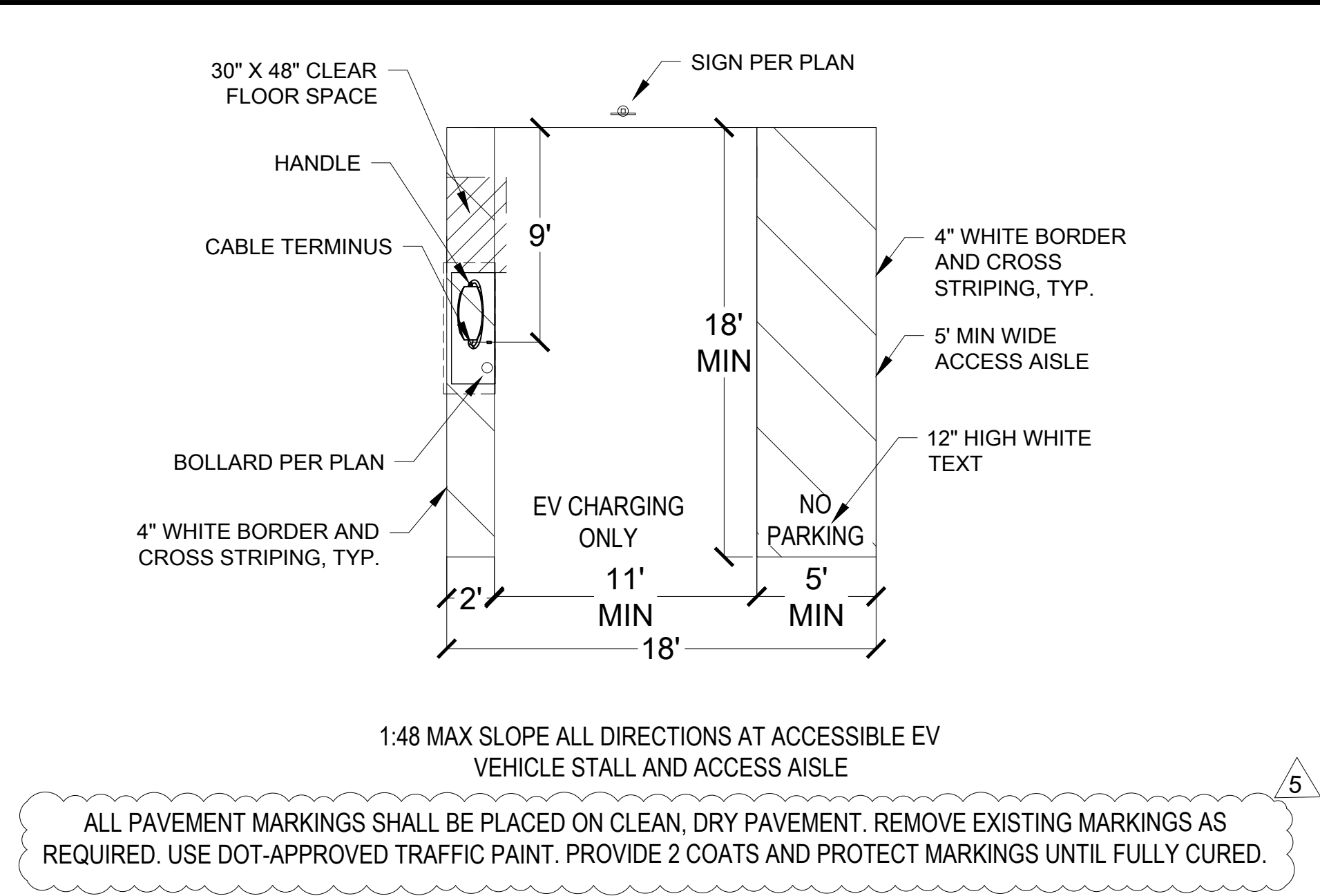
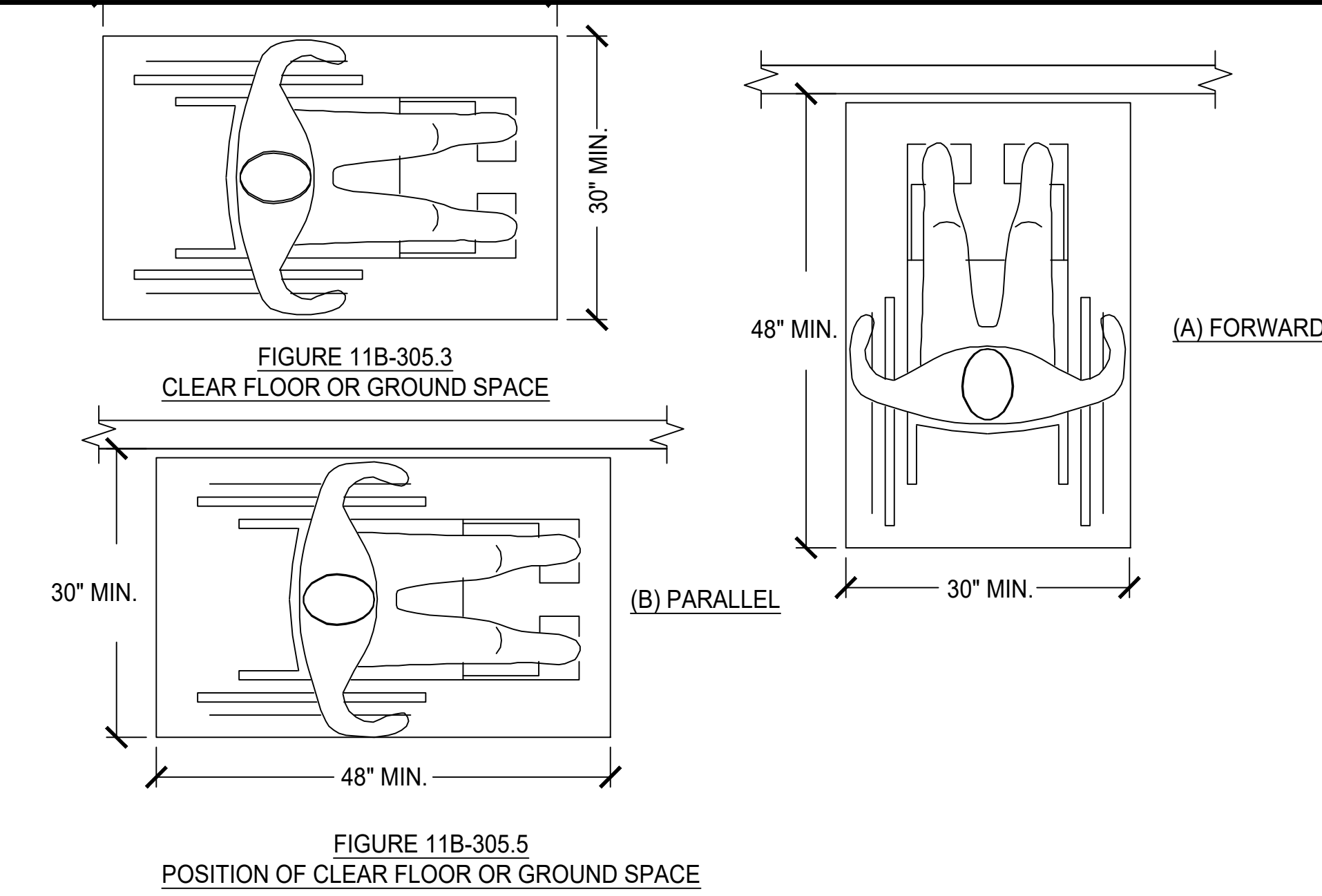
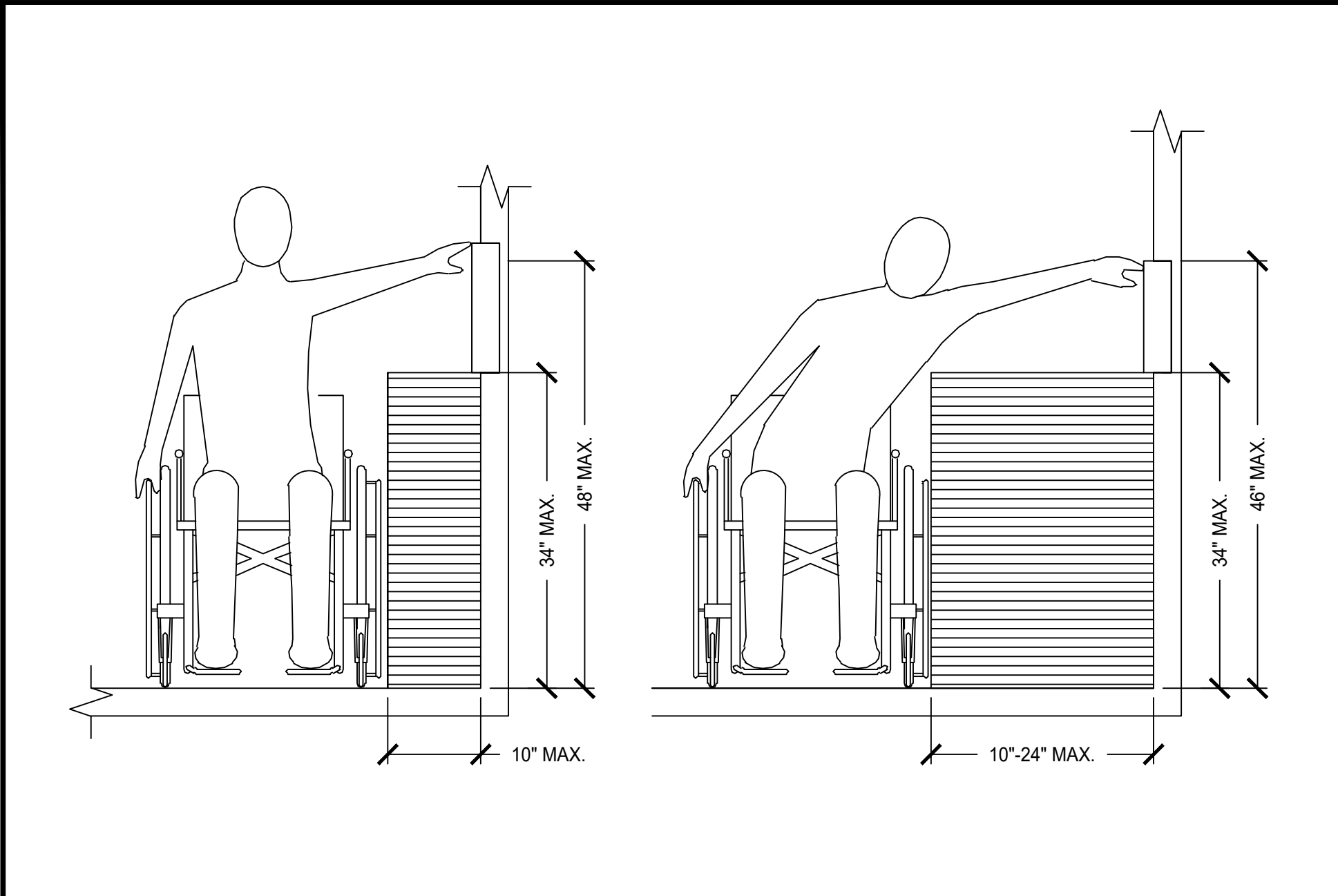
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DETAILS

drawing number

C.200

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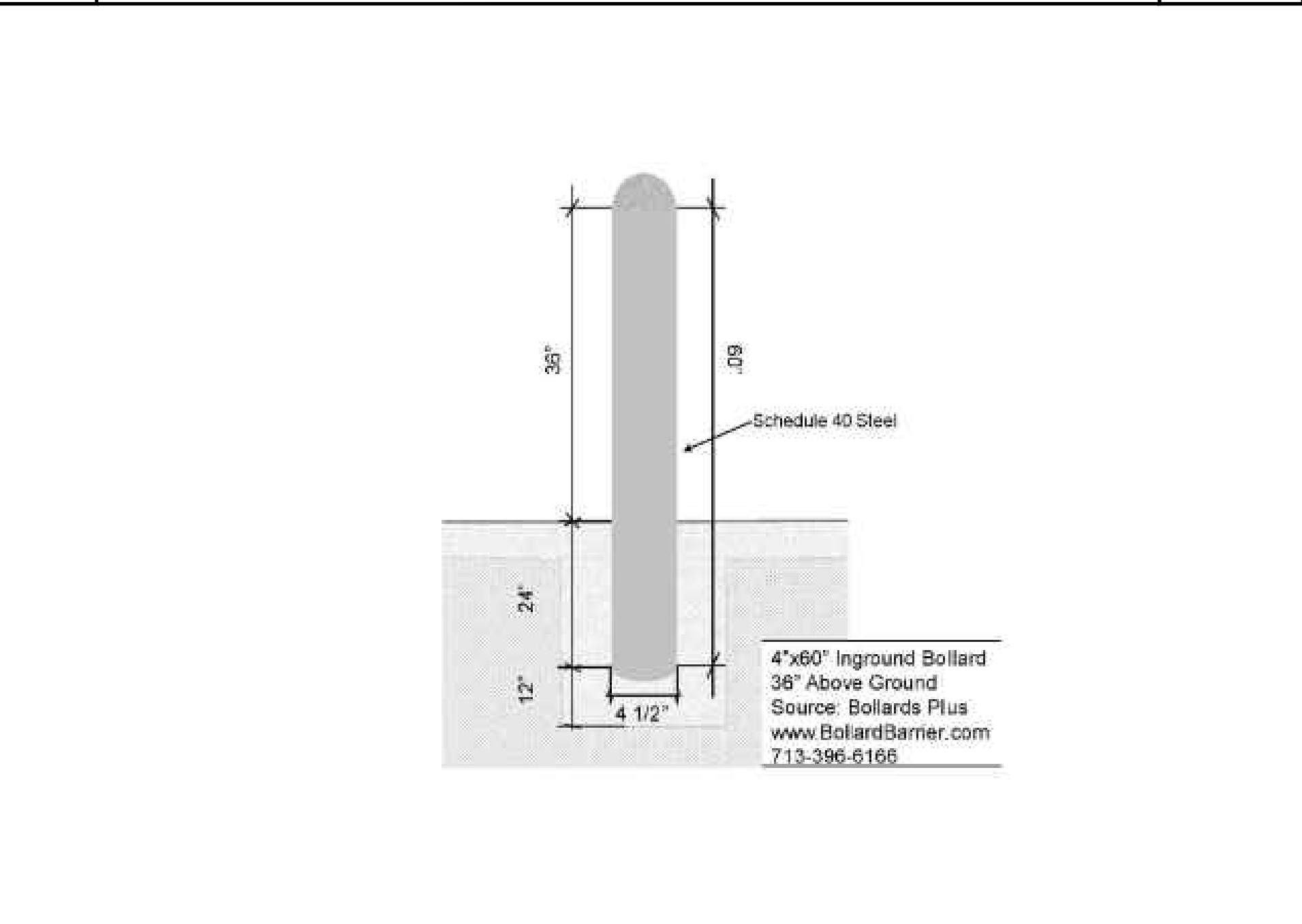
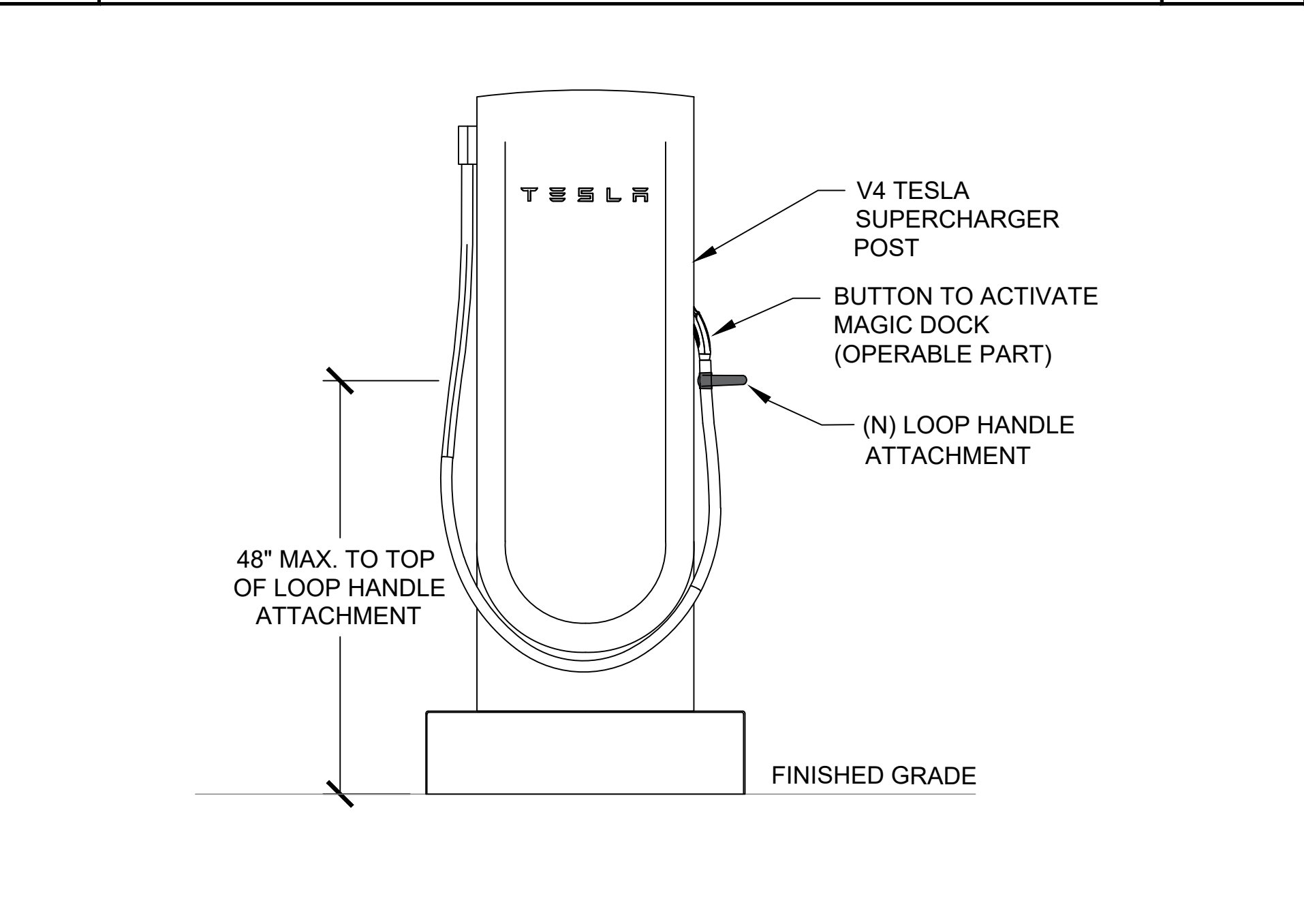
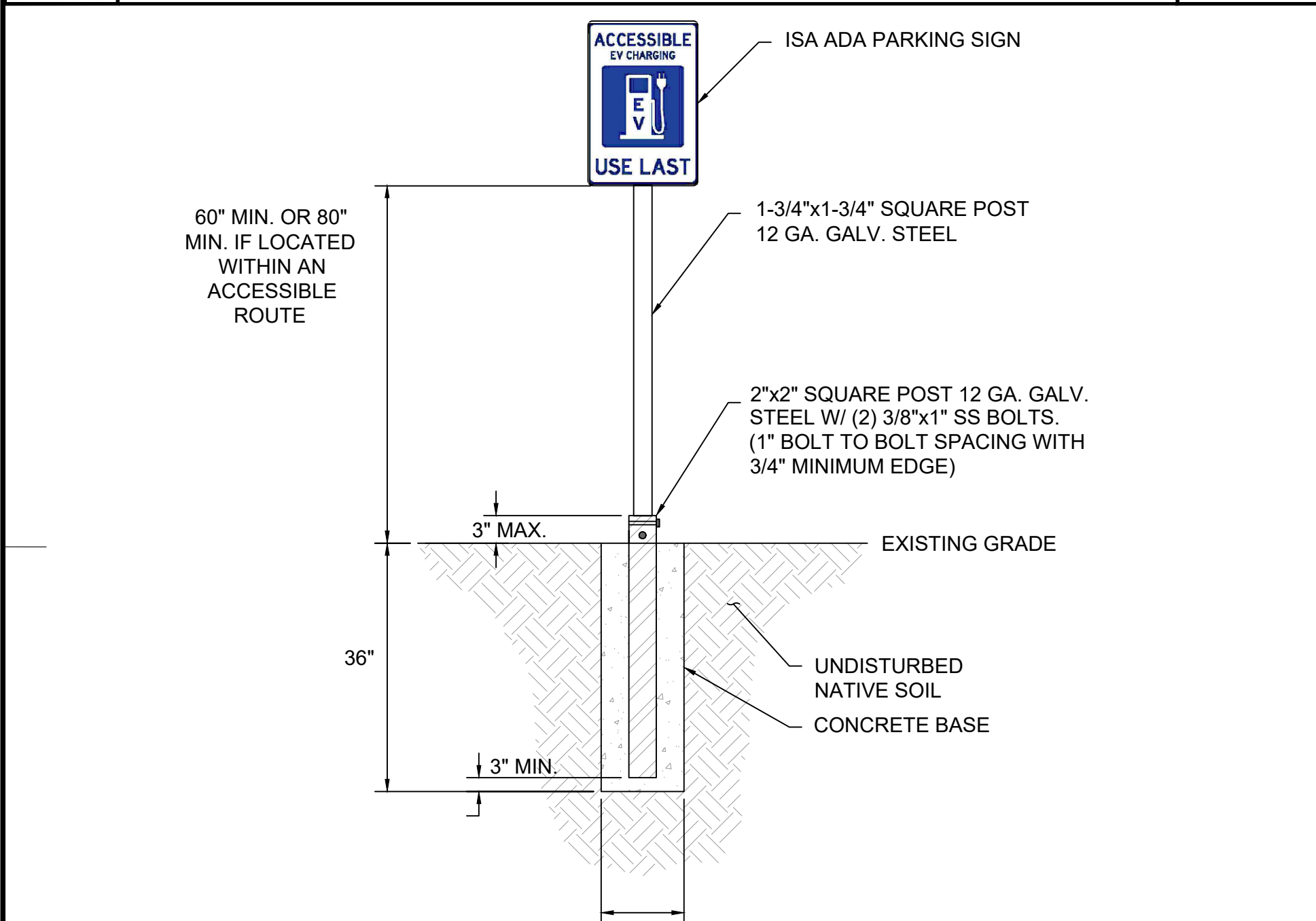
NTS



01 11B.308.3.2 OBSTRUCTED HIGH SIDE REACH scale NTS

02 11B-385 CLEAR FLOOR OR GROUND SPACE scale NTS

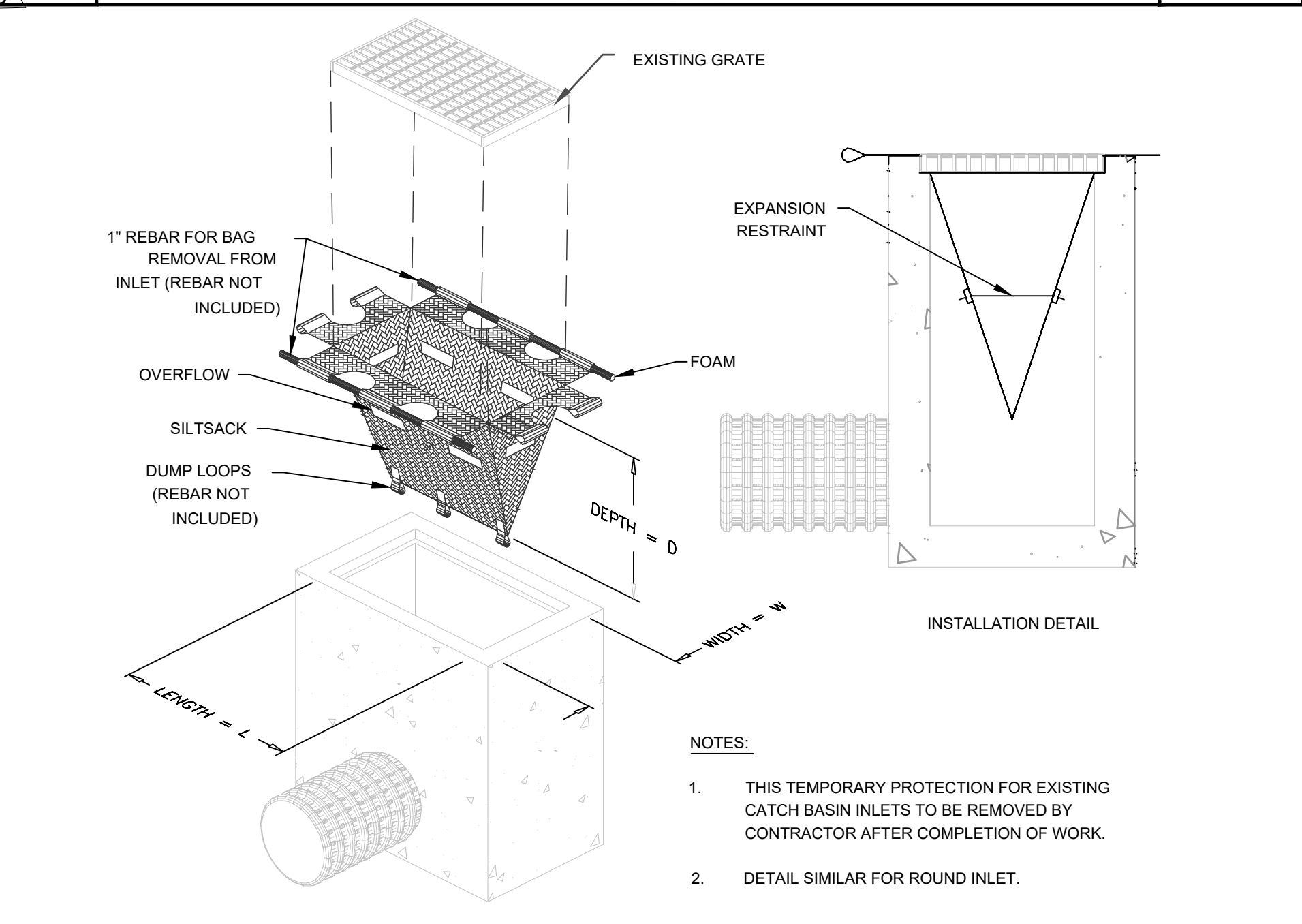
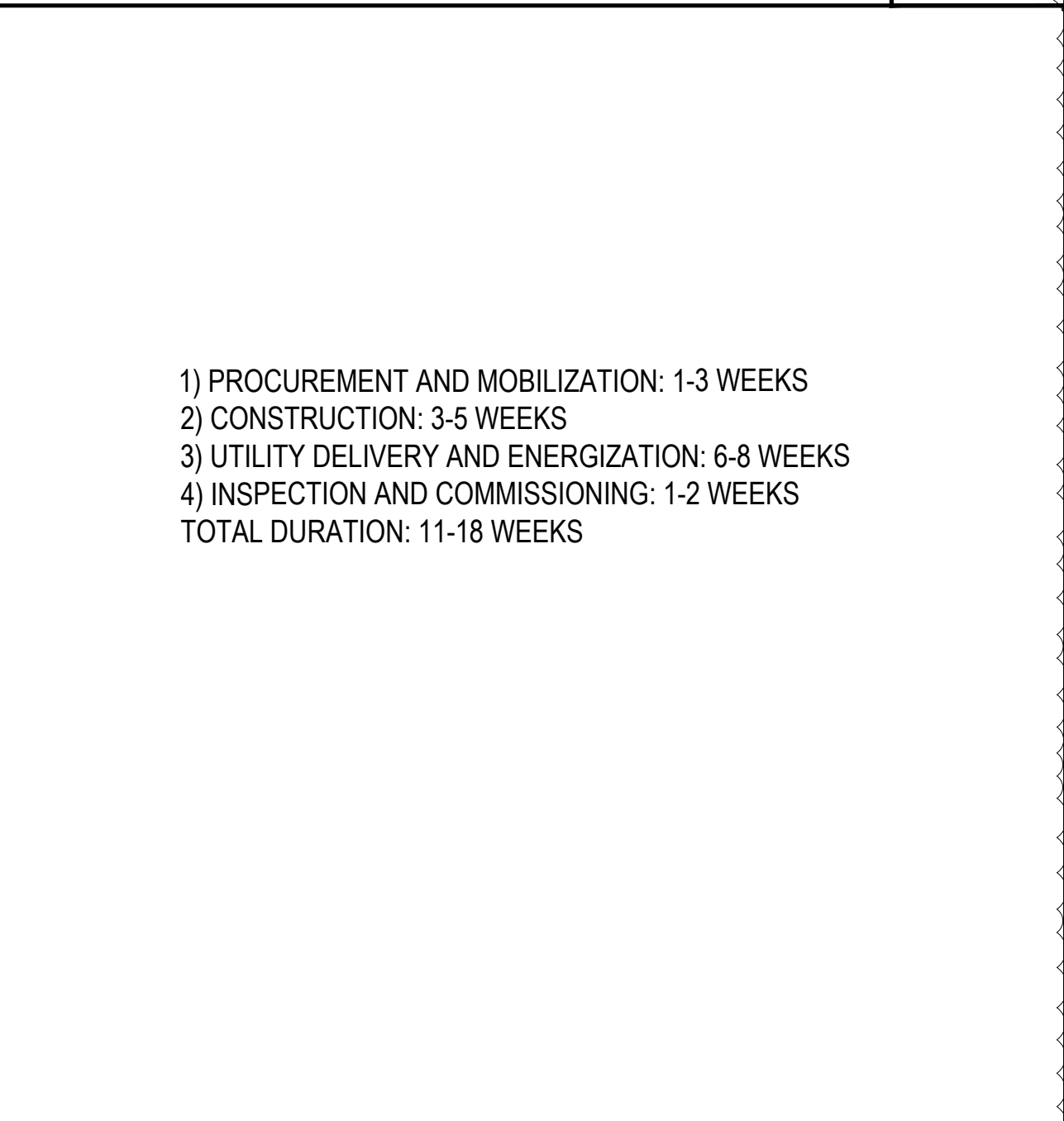
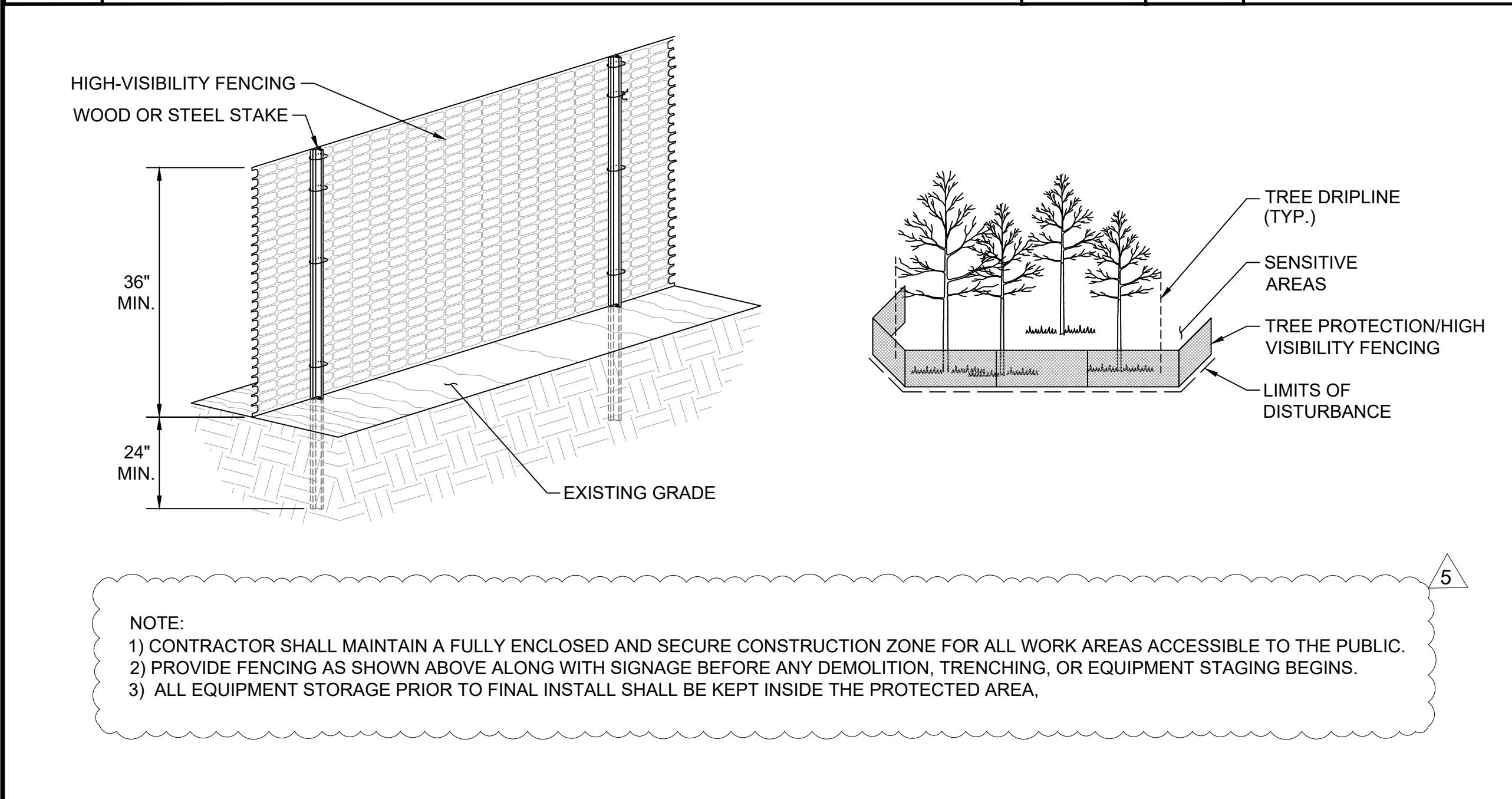
03 ACCESSIBLE VAN EV CHARGE STALL - ON THE LINE scale NTS



04 ADA SIGN POST scale NTS

05 V4 LOOP HANDLE ACCESSIBILITY DETAIL scale NTS


06 INGROUND BOLLARD scale NTS



07 TREE PROTECTION & CONSTRUCTION SITE ISOLATION scale NTS

08 CONSTRUCTION SEQUENCE scale NTS

09 CATCH BASIN INLET PROTECTION scale NTS



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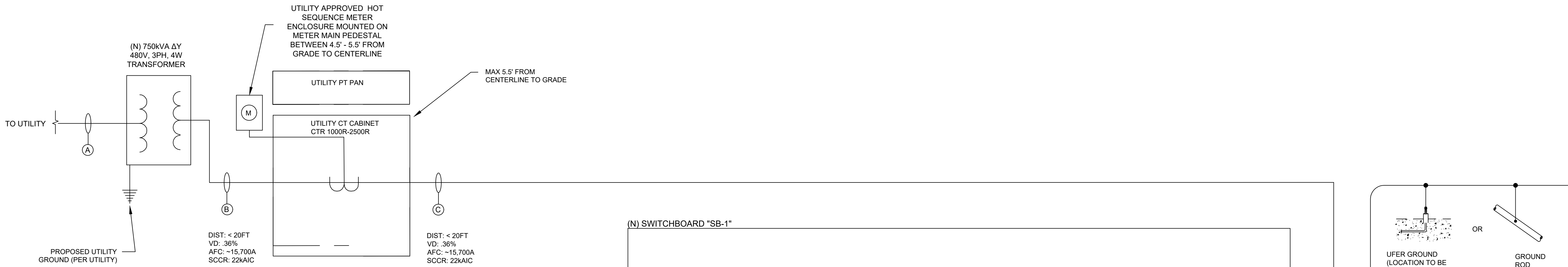
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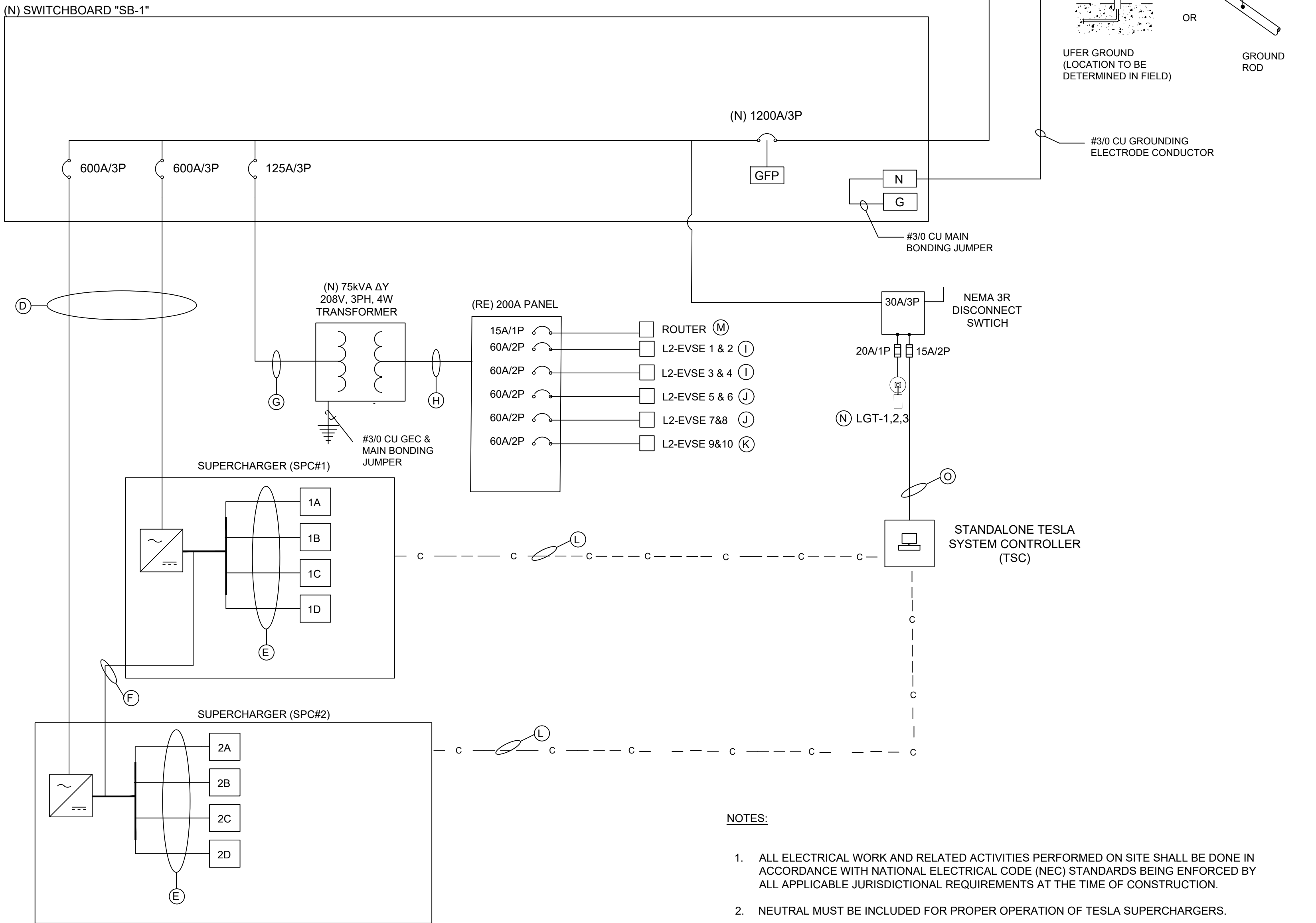
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scale

NTS



UTILITY S.O.W. RESPONSIBILITIES	
SCOPE OF WORK	BY:
PROVIDE & INSTALL CONCRETE TRANSFORMER PADS (CONTACT O&R & COMPLETE ALL NECESSARY INSPECTIONS)	CONTRACTOR
PROVIDE & INSTALL UTILITY TRANSFORMERS	UTILITY
PROVIDE & INSTALL UTILITY APPROVED CT CABINET	CONTRACTOR
PROVIDE UTILITY METER W/IN SOCKET	UTILITY
PROVIDE & INSTALL METERING CAN (PER UTILITY STANDARDS)	CONTRACTOR
PROVIDE & INSTALL PRIMARY TRENCHING & CONDUITS	CONTRACTOR
PROVIDE & INSTALL PRIMARY CONDUCTORS (CONDUCTORS NOT TO BE INSTALLED AHEAD OF TRANSFORMER INSTALLATION)	CONTRACTOR
PROVIDE & INSTALL SECONDARY TRENCHING & CONDUITS	CONTRACTOR
PROVIDE & INSTALL SECONDARY CONDUCTORS (CONDUCTORS NOT TO BE INSTALLED AHEAD OF TRANSFORMER INSTALLATION) (TERMINATIONS TO BE DONE DURING OUTAGE)	CONTRACTOR
PROVIDE PRIMARY & SECONDARY CONNECTIONS AT TRANSFORMER	CONTRACTOR



FEEDER SIZING NOTE (FOR O&R APPROVAL)

- FEEDER CONDUCTORS FROM UTILITY TRANSFORMER TO SERVICE RATED EQUIPMENT ARE (3) PARALLEL SETS OF 750 KCMIL AL (TOTAL AMPACITY = 1155A). SERVICE MAIN RATED 1200A. UTILITY APPROVAL REQUESTED TO PERMIT FEEDER SIZE.

SHORT CIRCUIT RATING NOTE (FOR UTILITY SUBMITTAL):

- SERVICE FED FROM 750 KVA, 480V UTILITY TRANSFORMER (ASSUMED 5.75% IMPEDANCE). ESTIMATED AVAILABLE FAULT CURRENT AT CT CABINET = 15,700A (INFINITE SOURCE), OR 12,400A (WITH 1.5% UTILITY IMPEDANCE). ALL SERVICE EQUIPMENT (CT CABINET, MAIN SWITCHBOARD, MAIN BREAKER) SHALL BE RATED MINIMUM 22KA AIC, UNLESS UTILITY-CALCULATED AFC IS HIGHER. FINAL FAULT CURRENT TO BE CONFIRMED BY O&R.

NOTES:

- ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
- NEUTRAL MUST BE INCLUDED FOR PROPER OPERATION OF TESLA SUPERCHARGERS.
- MAXIMUM DC RUN LENGTH IS 320' INCLUDING BURIED DEPTH. ANY DC RUN LENGTH OVER SHOULD BE BROUGHT TO IMMEDIATE ATTENTION OF ENGINEER.
- ANY SURFACE DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER. INCLUDING BUT NOT LIMITED TO CONCRETE, ASPHALT, MULCH, GRASS.
- CONTRACTOR SHALL USE THWN-2 COPPER CONDUCTORS WHERE CHART CALLS FOR COPPER, AND XHHW-2 WHERE CHART CALLS FOR ALUMINUM.
- CONTRACTOR SHALL USE PVC SCHEDULE 40 FOR ALL UNDERGROUND CUSTOMER-SIDE CONDUIT RUNS. FOR ABOVE-GROUND INSTALLATIONS, USE ONLY WHERE NOT SUBJECT TO PHYSICAL DAMAGE, OR UPGRADE TO SCHEDULE 80.
- CONTRACTOR SHALL USE RIGID NONMETALLIC PVC SCHEDULE 80 FOR ALL UTILITY SIDE CONDUIT ROUTING, BOTH ABOVE AND UNDERGROUND, INCLUDING SERVICE ENTRANCE RISERS, TRANSFORMER STUBS, AND UTILITY METERING CONDUIT.
- CONTRACTOR TO LOCATE JUNCTION BOX, LINE (LB), OR APPROVED ALTERNATIVE FOR SITE SPECIFIC RUN LENGTHS AND BENDS.
- PROVIDE ONE GEC PER SERVICE-RATED DISCONNECT TO SEPARATE GROUNDING ELECTRODES.
- IF MULTIPLE GROUND RODS ARE USED, THEY ARE TO BE BONDED TOGETHER PER NEC 250.53 (C).
- MAIN BONDING JUMPER SHALL BE INSTALLED INSIDE EACH SERVICE-RATED DISCONNECT ENCLOSURE.
- GROUND FAULT PROTECTION OF EQUIPMENT SHALL BE PROVIDED FOR SOLIDLY GROUNDED WYE ELECTRICAL SERVICES OF MORE THAN 150V TO GROUND BUT NOT EXCEEDING 1000V PHASE TO PHASE FOR EACH SERVICE DISCONNECT RATED 1000A OR MORE. IF THIS IS THE CASE, GFPE TESTING IS ALSO REQUIRED.

WIRE SIZING CHART							
ABBREVI.	CONNECTING	SETS (PER LINE)	HOT	NEUTRAL	GROUND	CONDUIT SIZE	NOTES
A	750KVA XFMR	1	(3) #2 AWG AL	N/A	N/A	4"	EPR W/ CONCENTRIC NEUTRAL
B	CT CABINET	3	(3) 750KCMIL AL	(1) 750KCMIL AL	(1) #3/0 AWG CU	4" + *(1) 2 1/2"	GROUND CT CAB. ENCLOSURE *PROVIDE SEPARATE CONDUIT FOR NEUTRAL+ GROUND TO AVOID DERATING
C	SWITCHBOARD MAIN	3	(3) 750KCMIL AL	(1) 750KCMIL AL	*(1) #3/0 AWG CU	4"	*GEC & MAIN BONDING JUMPER. SERVICE
D	SUPERCHARGER CABINET	2	(3) 500KCMIL AL	(1) 500KCMIL AL	(1) #1 AWG CU	4"C	TESLA SPECIFIED SIZING
E	SUPERCHARGER POST	1	(4) 600KCMIL AL	N/A	(1) #2/0 AWG CU	4"C	TESLA SIGNAL WIRE PROVIDED BY TESLA
F	DC BUS	2	(2) 600 KCMIL AL	N/A	(1) 1/0 AWG CU	3"	(1) 3/0 AL DC MID, ALL CONDUCTORS 1000V RATED
G	75KVA XFMR	1	(3) #1AWG CU	N/A	*(1) #3/0 AWG CU	2"	*GEC & MAIN BONDING JUMPER
H	200A PANEL	1	(3) #3/0 AWG CU	(1) #3/0 AWG CU	(1) #6AWG CU	2"	SEE NOTE 7
I	LEVEL 2 EVSE	1	(2) #6 AWG CU	N/A	(1) #10 AWG CU	3/4"	REFER TO DEMO NOTES ON C-100
J	LEVEL 2 EVSE	1	(2) #4 AWG CU	N/A	(1) #8 AWG CU	1"	REFER TO DEMO NOTES ON C-100
K	LEVEL 2 EVSE	1	(2) #3 AWG CU	N/A	(1) #6 AWG CU	1"	REFER TO DEMO NOTES ON C-100
L	CONTROLS COMPARTMENT	1	N/A	N/A	N/A	(1) 1"C	CATS CONNECTING SUPERCHARGER & TSC
M	ROUTER	1	(1) #12 AWG CU	(1) #12 AWG CU	(1) #10 AWG CU	(1) 3/4"C	
N	LIGHT POSTS	1	(1) #10 AWG CU	(1) #10 AWG CU	(1) #10 AWG CU	(1) 1"C	
O	TESLA SITE CONTROLLER	1	(1) #12 AWG CU	(1) #12 AWG CU	(1) #10 AWG CU	(1) 3/4"C	GC TO PROVIDE AUX 480V-120V TRANSFORMER

Issue date

11/21/25

issued for

PERMIT

	REV PER AHJ COMMENTS	11/21/25	SL
4	CD100 REV2	09/26/25	SL
3	CD100	09/11/25	SL
2	CD90	08/22/25	SL
1	UTILITY REVIEW	06/09/25	SL
Nº	Revision	Date	By

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seal

project name

10 INDIAN ROCK

10 INDIAN ROCK
SUFFERN, NY 10901

project number	date
100.07	08/22/25

drawing name

ONE-LINE DIAGRAM

drawing number

E.001

scale

NTS

PANEL DESIGNATION

(N) SWITCHBOARD (SB-1)

VOLTAGE

480 V

PHASE

3 Ø

WIRE

3 W

NEUTRAL

100%

MAIN C.B.

1200A

MAIN BUS

1200A

MIN. K.A.I.C. SYM

22 K.A.I.C.

NON-TRIP MAIN MOLDED CASE C.B.

SHUNT TRIP MAIN

MAIN LUGS ONLY

FEED-THROUGH LUGS

SURFACE MTD.

FLUSH MTD.

NEMA ENCLOSURE TYPE

3R

BREAKER OPTION CODES (BOC)

GFI-5	GROUND FAULT CURRENT INTERRUPT - 5mA
GFI-30	GROUND FAULT CURRENT INTERRUPT - 30mA
SHUNT	SHUNT TRIP
HAND	HANDLE-BAR TIE
LOATT	LOCK-OUT ATTACHMENT
LCKTB	LOCKING TAB

CONNECTED	DEMAND					% DEMAND
825.63 KVA	824.03 KVA	A	B	C	100%	
993 A	991 A	279.17 kVA	273.28 kVA	273.18 kVA		

REMARKS: TESLA SITE MASTER CONTROLLER SHALL AUTOMATICALLY
MANAGE LOAD TO NOT EXCEED MAIN OCP

PANEL DESIGNATION

RELOCATED 200A PANEL

VOLTAGE

208/120Y V

PHASE

3 Ø

WIRE

4 W

NEUTRAL

100%

MAIN C.B.

200 A

MAIN BUS

200 A

MIN. K.A.I.C. SYM

NON-TRIP MAIN MOLDED CASE C.B.

SHUNT TRIP MAIN

MAIN LUGS ONLY

FEED-THROUGH LUGS

SURFACE MTD.

FLUSH MTD.

NEMA ENCLOSURE TYPE

BREAKER OPTION CODES (BOC)

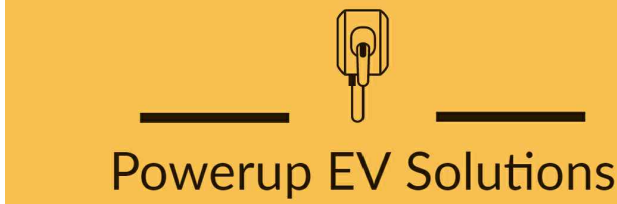
GFI-5	GROUND FAULT CURRENT INTERRUPT - 5mA
GFI-30	GROUND FAULT CURRENT INTERRUPT - 30mA
SHUNT	SHUNT TRIP
HAND	HANDLE-BAR TIE
LOATT	LOCK-OUT ATTACHMENT
LCKTB	LOCKING TAB

CONNECTED	DEMAND					% DEMAND
50.02 KVA	50.02 KVA	A	B	C	100%	
139 A	139 A	19.97 kVA	15.08 kVA	14.98 kVA		

REMARKS:

NOTES:

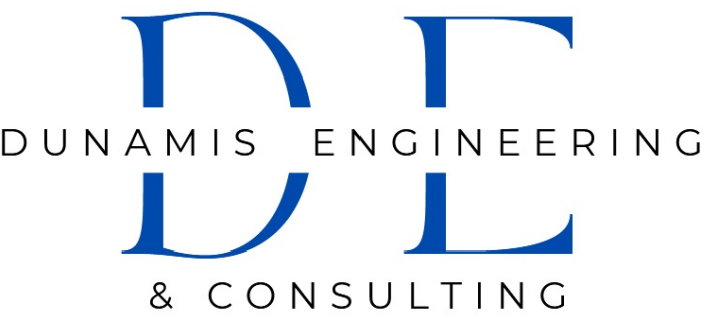
- 1) SWITCHGEAR SHALL BE RATED 1200A MINIMUM, WITH SHORT-CIRCUIT WITHSTAND RATING COORDINATED WITH AVAILABLE FAULT CURRENT.
- 2) PROVIDE NEMA ENCLOSURE TYPE AS REQUIRED (OUTDOOR 3R UNLESS OTHERWISE NOTED).
- 3) PROVIDE ENGRAVED LAMICOID NAMEPLATE AND TYPEWRITTEN DIRECTORY FOR ALL SECTIONS.
- 4) INCLUDE GROUNDING BUS SIZED PER NEC 250, BONDED TO ENCLOSURE.
- 5) APPLY ARC-FLASH/SHOCK HAZARD LABELS PER NEC 110.1.



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11/21/25

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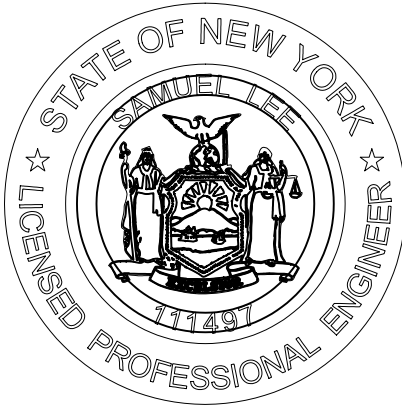
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10 INDIAN ROCK

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SUFFERN, NY 10901

project number
100.07

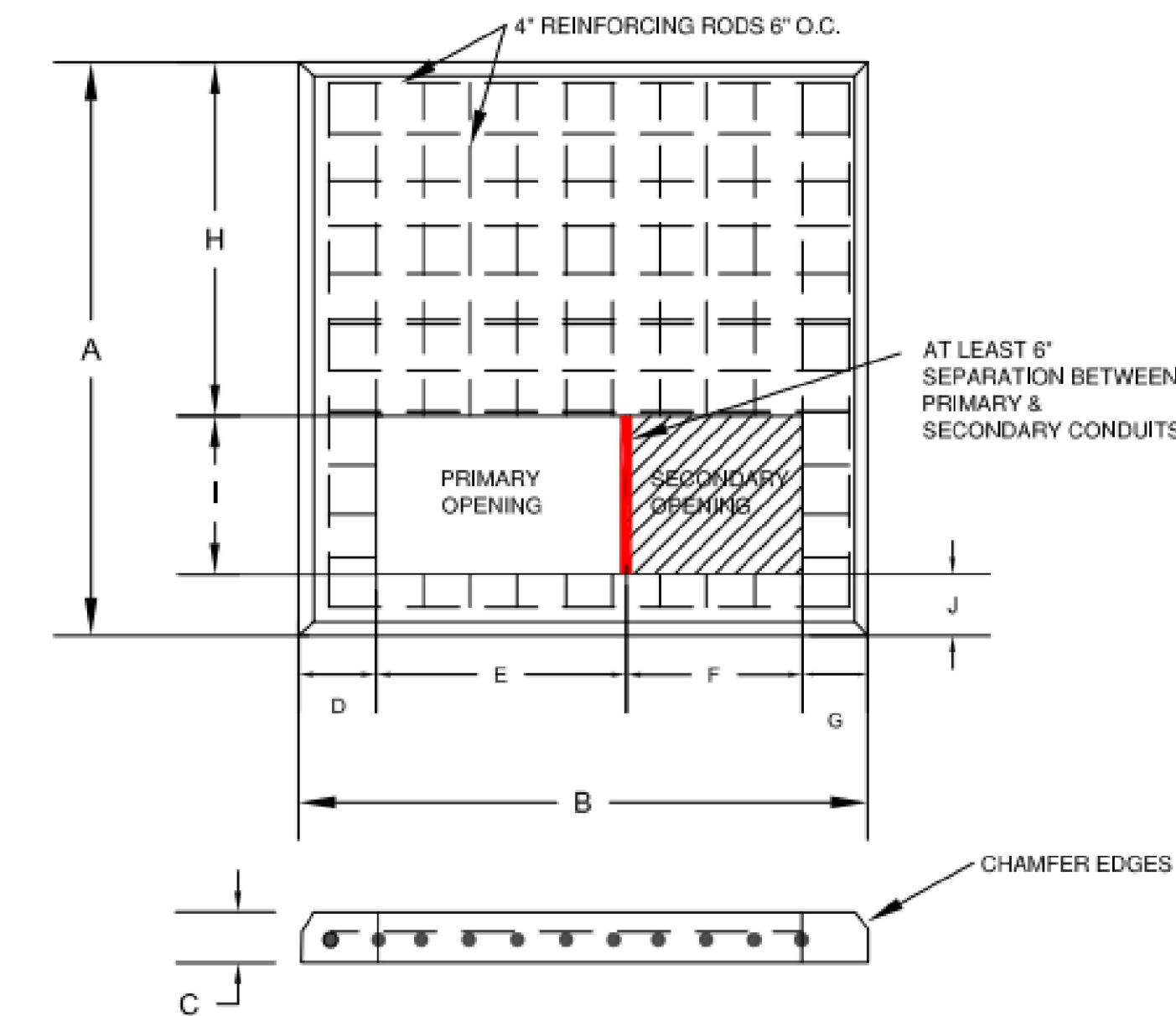
date
08/22/25

drawing name
ELECTRICAL
PANEL SCHEDULES

drawing number

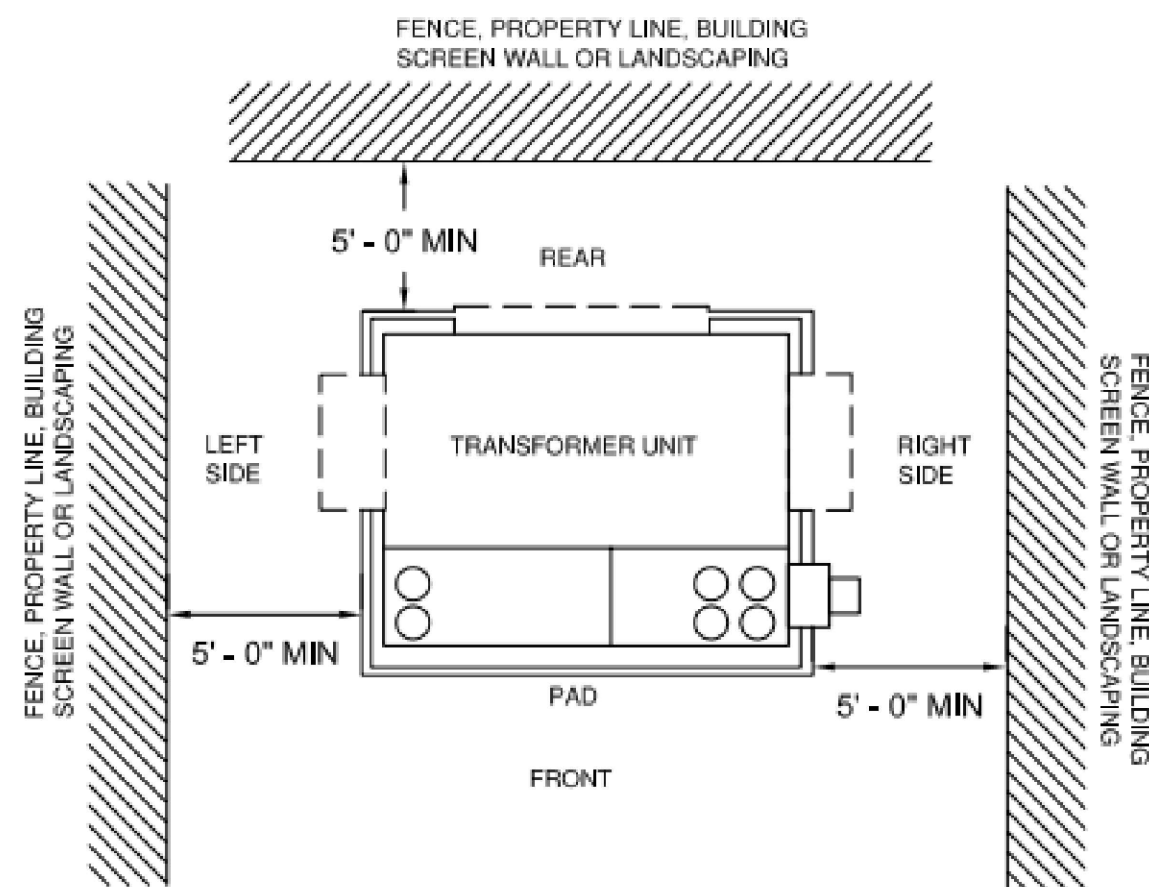
E.002

scale
NTS



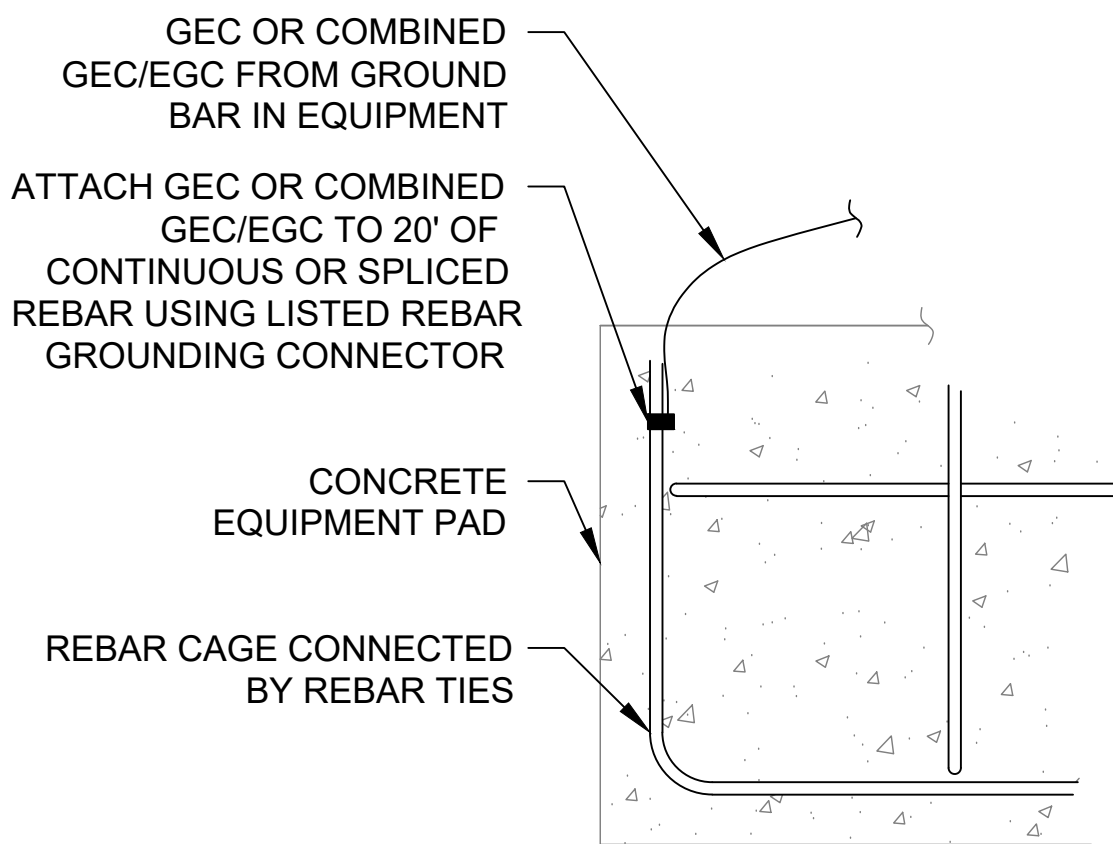
INCHES										
KVA	A	B	C	D	E	F	G	H	I	J
45 - 500	76	76	6	8	34	26	8	42	26	8
750 - 1000	90	90	8	15	34	26	15	54	26	10
1500 - 2500	104	104	8	22	34	26	22	68	26	10

- NOTES
- CONCRETE SPECIFICATIONS, MIN 28 DAY COMPRESSIVE STRENGTH - 3000PSI, 3/4" AGGREGATE MAXIMUM SIZE.
 - REINFORCING STEEL, ASTM - A615 GRADE 60, PLACE 6" O.C. EACH WAY AND SECURELY TIED TOGETHER.
 - MINIMUM CONCRETE COVER OVER REINFORCING RODS, 3".
 - WOOD FLOAT FINISH, LEAVING NO DEPRESSIONS.
 - PRIMARY & SECONDARY CONDUITS TO BE SEPARATED BY AT LEAST 6".



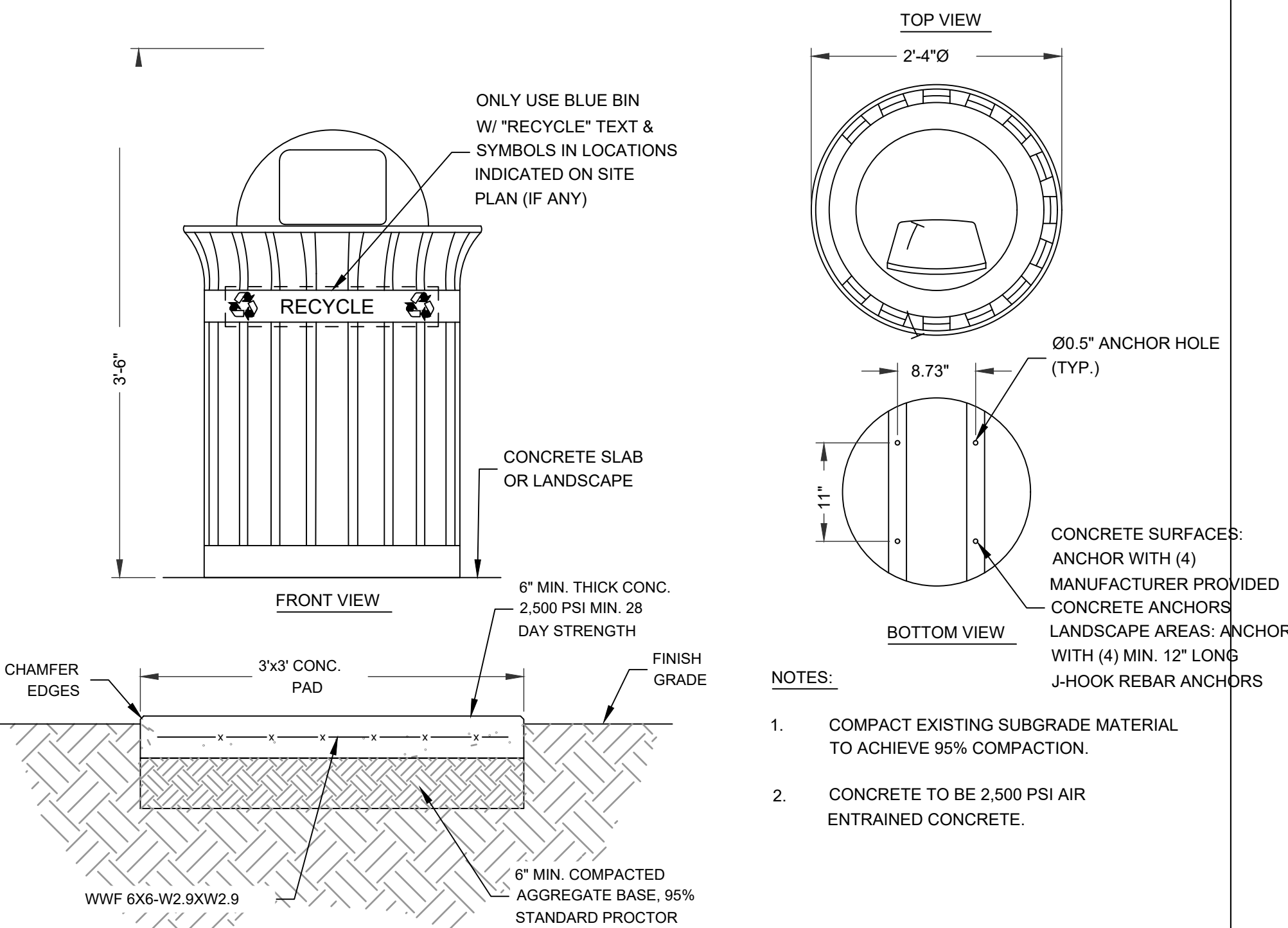
FOR CLEARANCES, SEE NOTES 1, 4, & 5

- NOTES
- A 10 foot minimum width corridor, suitable for heavy truck access, shall be provided to within 5 feet of the transformer.
 - Final pad location and orientation to be spotted on job site by PECL company representative.
 - Transformer location should not be within 10 feet of cooling tower or apparatus which could damage the transformer's finish.
 - A minimum working distance of 12 feet from the point of the pad to any permanent structure must be provided. This distance may be reduced to 5 feet minimum if an easily removable lightweight screen or blind is used.
 - There shall be no building overhang or any structure directly above the concrete transformer pad for a minimum vertical clearance of 40 feet.
 - Suitable protection from vehicles to be provided by customer where deemed necessary and approved by PECL.
 - Meter should be readily visible or where it faces a building wall, a minimum clearance of 36 inches from wall and access to it must be provided.
 - No foreign underground utility lines shall pass underneath or within 6 feet from the edge of the concrete transformer pad.
 - Do not install sprinkler systems within watering distance of any electrical equipment.
 - See Memo #19 for landscaping specifications around transformer.



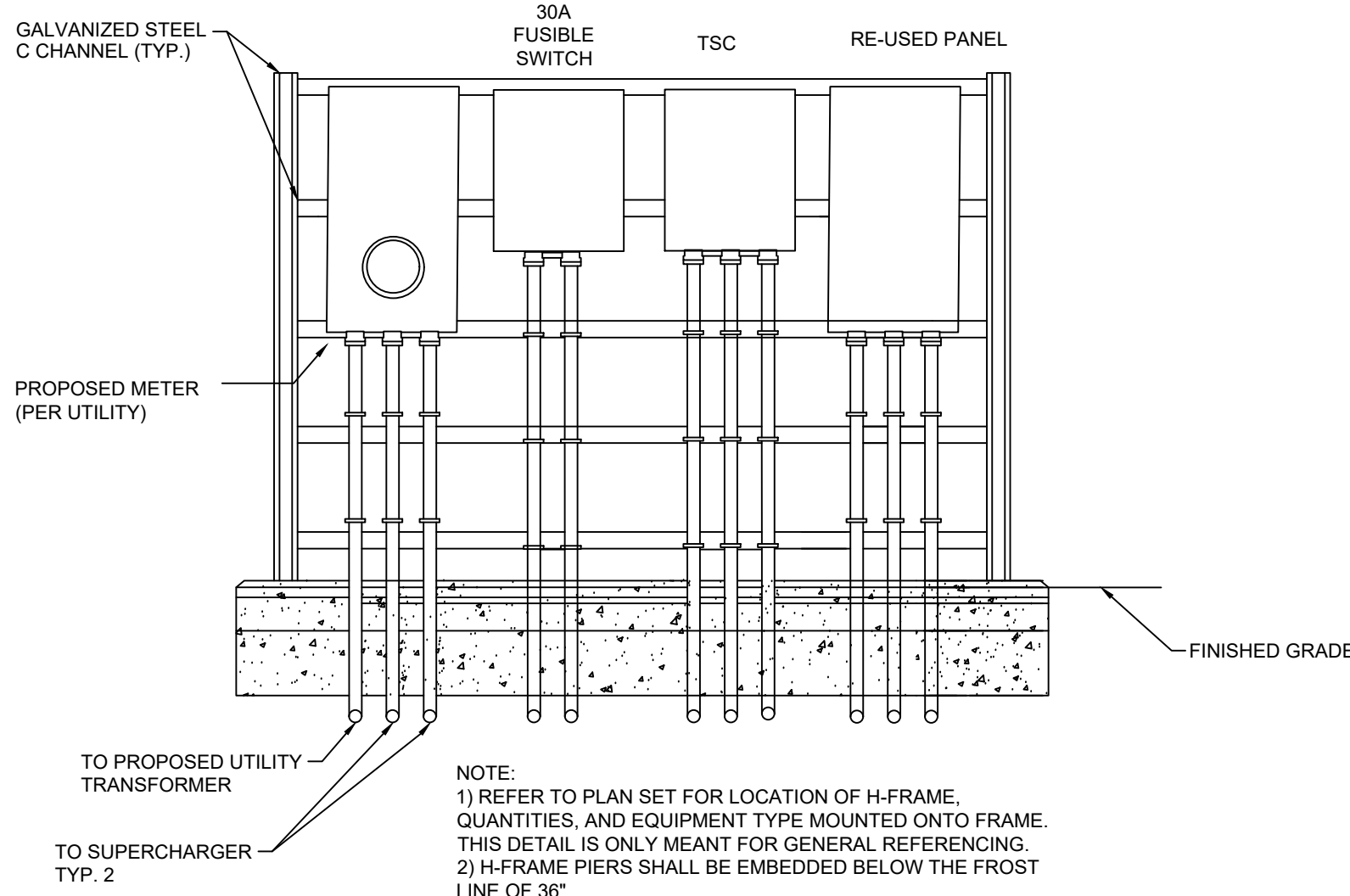
02 CONCRETE-ENCASED UFER GROUND - OPTION A

scale
NTS



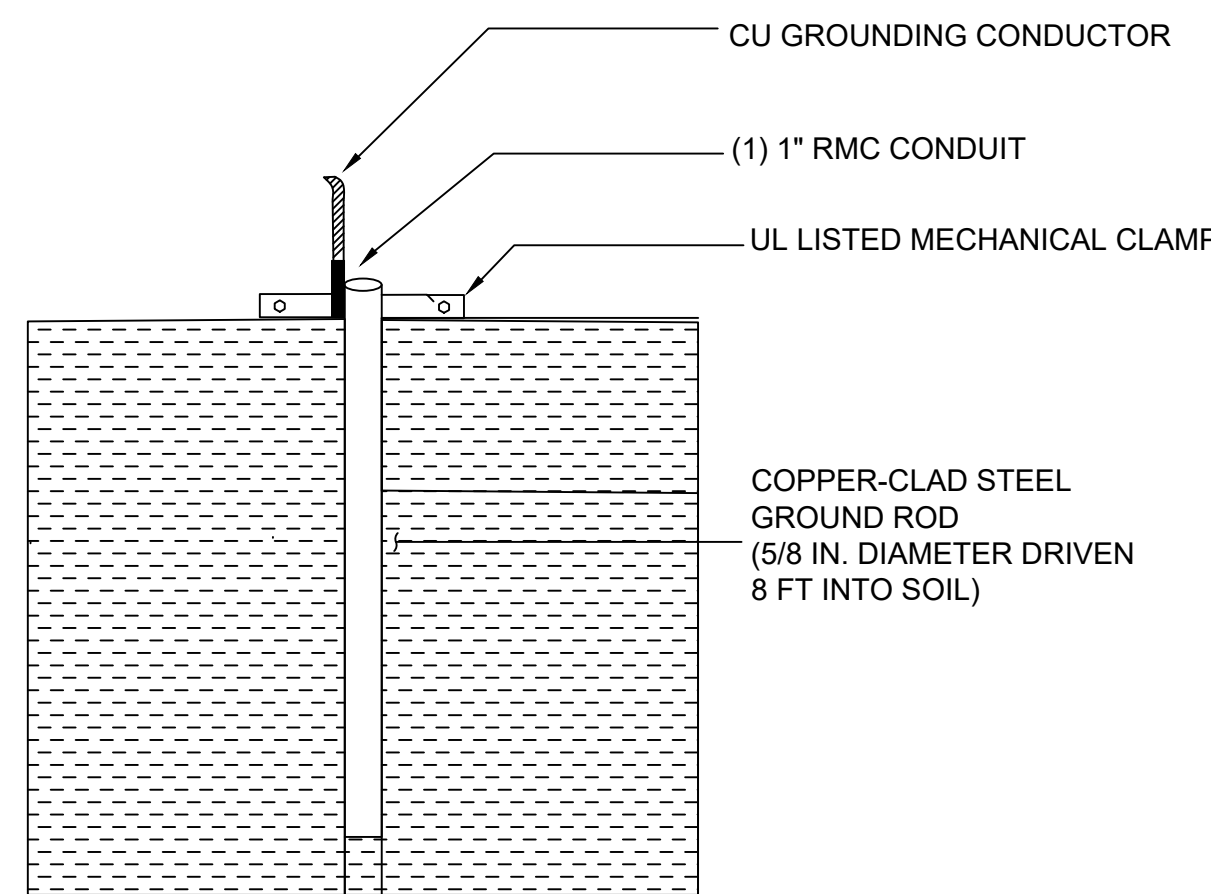
04 TRASBH & RECYCLING BIN

scale
NTS



05 H-FRAME

scale
NTS



- NOTES:
- GROUND ROD TO EXTEND 6-12 INCHES ABOVE GRADE FOR CONNECTION ACCESSIBILITY.
 - RMC TERMINATES NEAR GROUND ROD; BONDING CONDUCTOR TO BE EXPOSED ONLY AT CONNECTION.
 - GROUNDING ELECTRODE SYSTEM MUST BE TESTED TO ENSURE RESISTANCE OF AT MOST 25 OHMS PER NEC 250.53(A)(2).
 - IF ABOVE 25 OHMS, INSTALL A SECOND ROD 6 FEET APART.
 - GC TO PROVIDE CHRISTY BOX OR SIMILAR FLUSH-GROUND BOX FOR PROTECTION & ACCESSIBILITY.
 - ALL GROUNDING MATERIALS AND INSTALLATION SHALL COMPLY WITH NEC 250 AND MANUFACTURER REQUIREMENTS.

03 GROUND ROD (SOFTSCAPE) - OPTION B

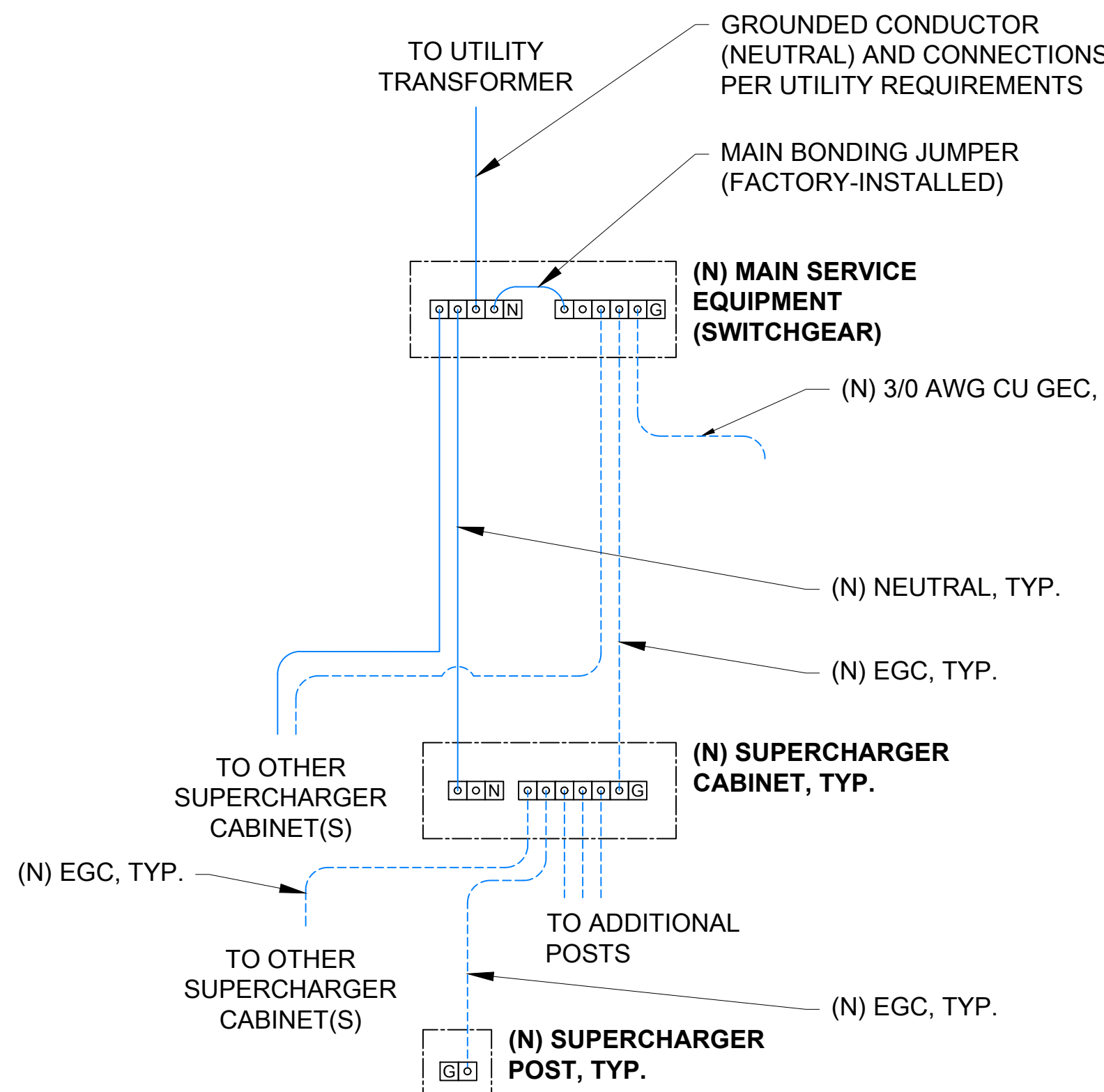
scale
NTS

NOTES

- REFER TO ONE-LINE DIAGRAM FOR SPECIFIC CIRCUIT IDENTIFIERS BETWEEN EQUIPMENT.
- REFER TO WIRING SCHEDULES FOR NEUTRAL/GROUND SIZING PER CIRCUIT.

LEGEND

- NEUTRAL BUSBAR
- GROUND BUSBAR
- PRIMARY OR SECONDARY COMMON TERMINAL, AS APPLICABLE
- TERMINAL ON NEUTRAL OR GROUND BUSBAR
- IRREVERSIBLE SPLICE OR CRIMP PER NEC 250.64(C)
- NEC 250.52(A)-COMPLIANT GROUNDING ELECTRODE



06 GROUNDING DIAGRAM

scale
NTS

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11/21/25

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10 INDIAN ROCK

10 INDIAN ROCK
SUFFERN, NY 10901

project number
100.07

date
08/22/25

drawing name
ELECTRICAL DETAILS

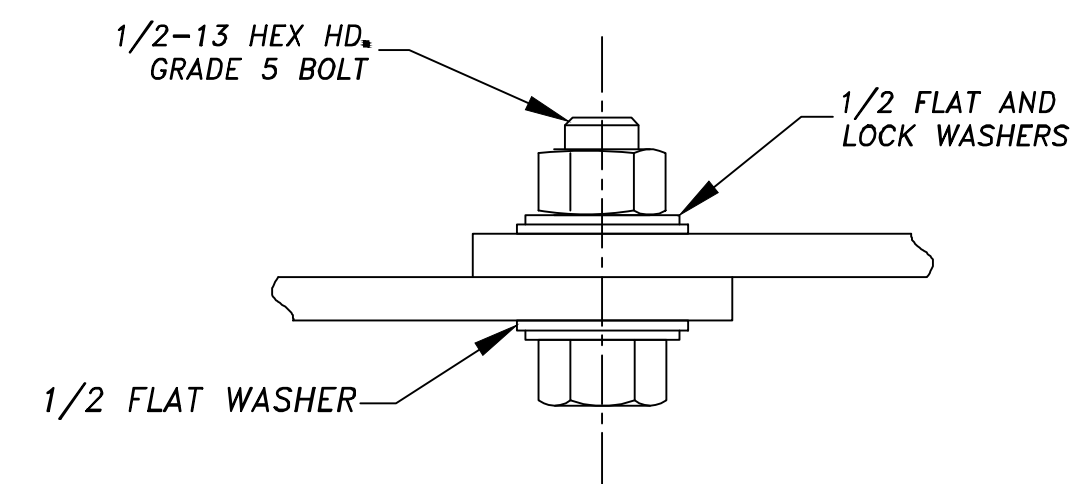
drawing number
E.200

scale
NTS

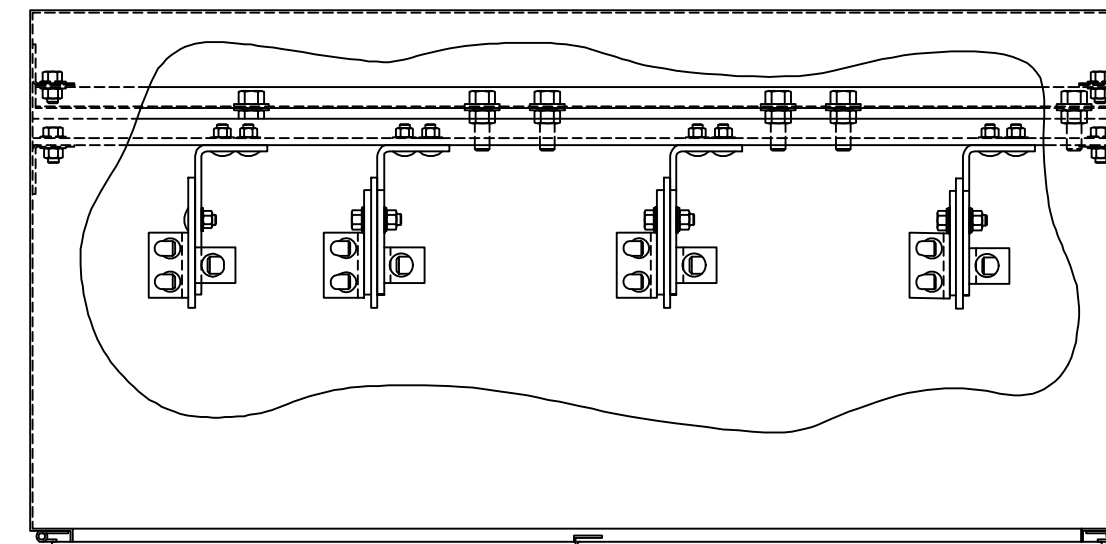
01 TRANSFORMER CONCRETE PAD

scale
NTS

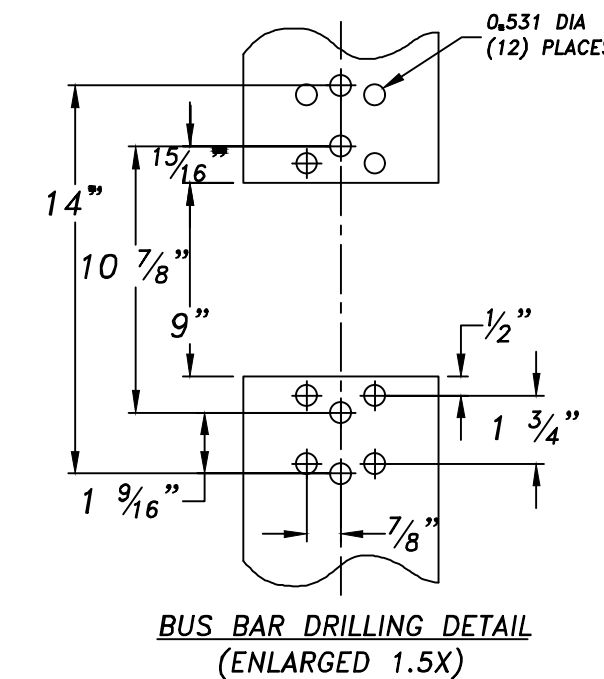
CATALOG#- CTR 1000R-2500R



BOLTED CONNECTION (TYP)



TOP VIEW



BUS BAR DRILLING DETAIL
(ENLARGED 1.5X)

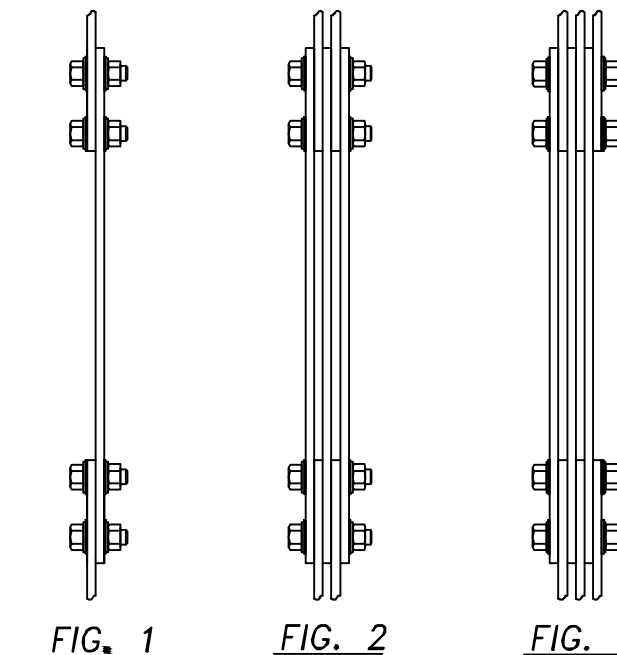


FIG. 1 FIG. 2 FIG. 3

AMPS	FIG #	MATERIAL	
		COPPER	ALUMINUM
1000A	1	(1) 1/4 X 5	(1) 1/4 X 5
1200A	1	(1) 1/4 X 5	(1) 1/4 X 5
1600A	2	(2) 1/4 X 4	(2) 1/4 X 5
2000A	2	(2) 1/4 X 4	(2) 1/4 X 5
2500A	2	(2) 1/4 X 5	-
2500A	3	-	(3) 1/4 X 5

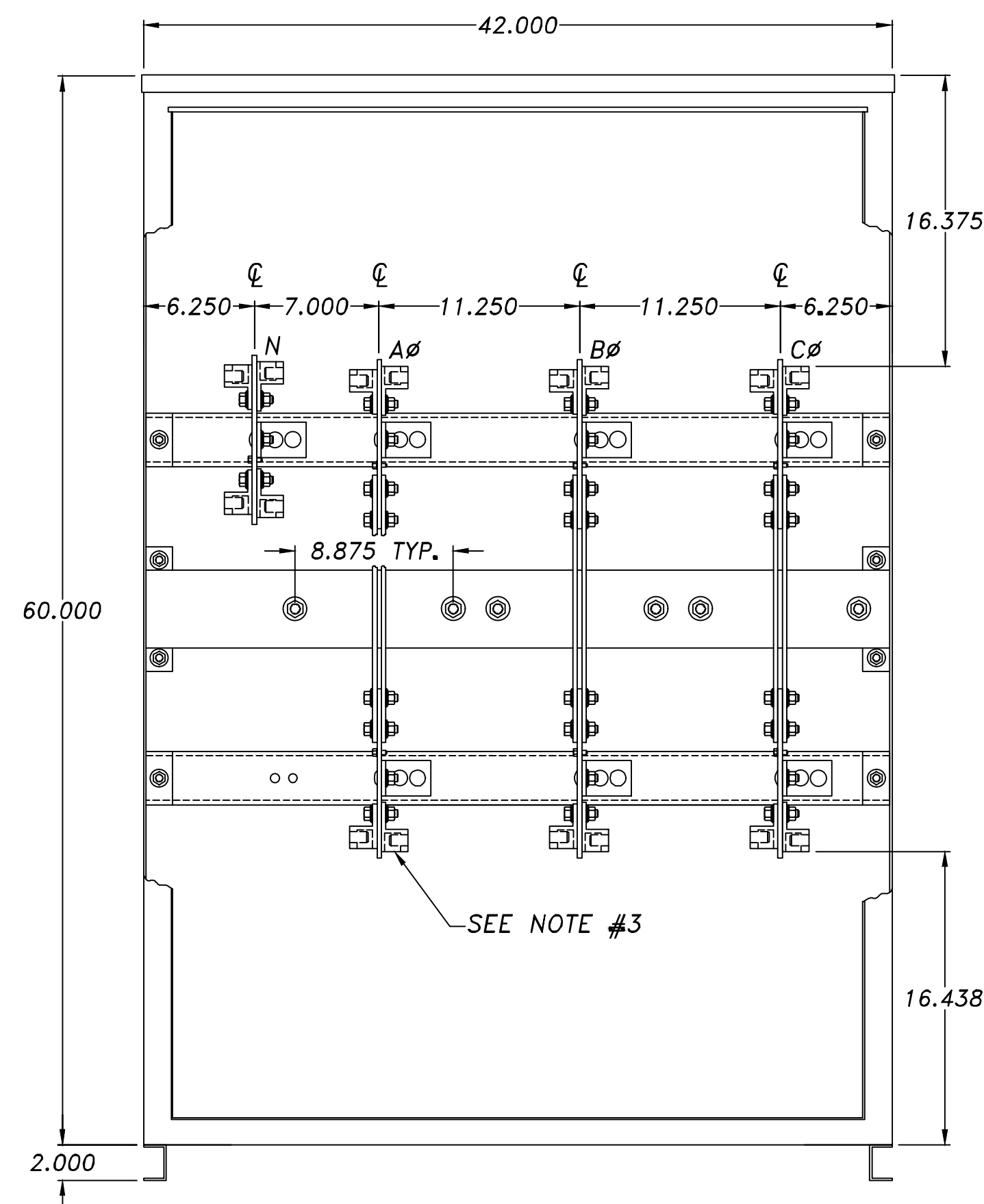
NOTE: QUANTITY AND SIZE OF BUS BARS SHALL BE PER UL 891 OR MANUFACTURERS UL LISTED SIZES BASED ON TEMPERATURE RISE TESTING. UNLESS OTHERWISE SPECIFIED ALL BUS SHALL BE TIN PLATED ALUMINUM.

1/4-20 TAP (TYP.)
PHASE & NEUTRAL
(LINE & LOAD)

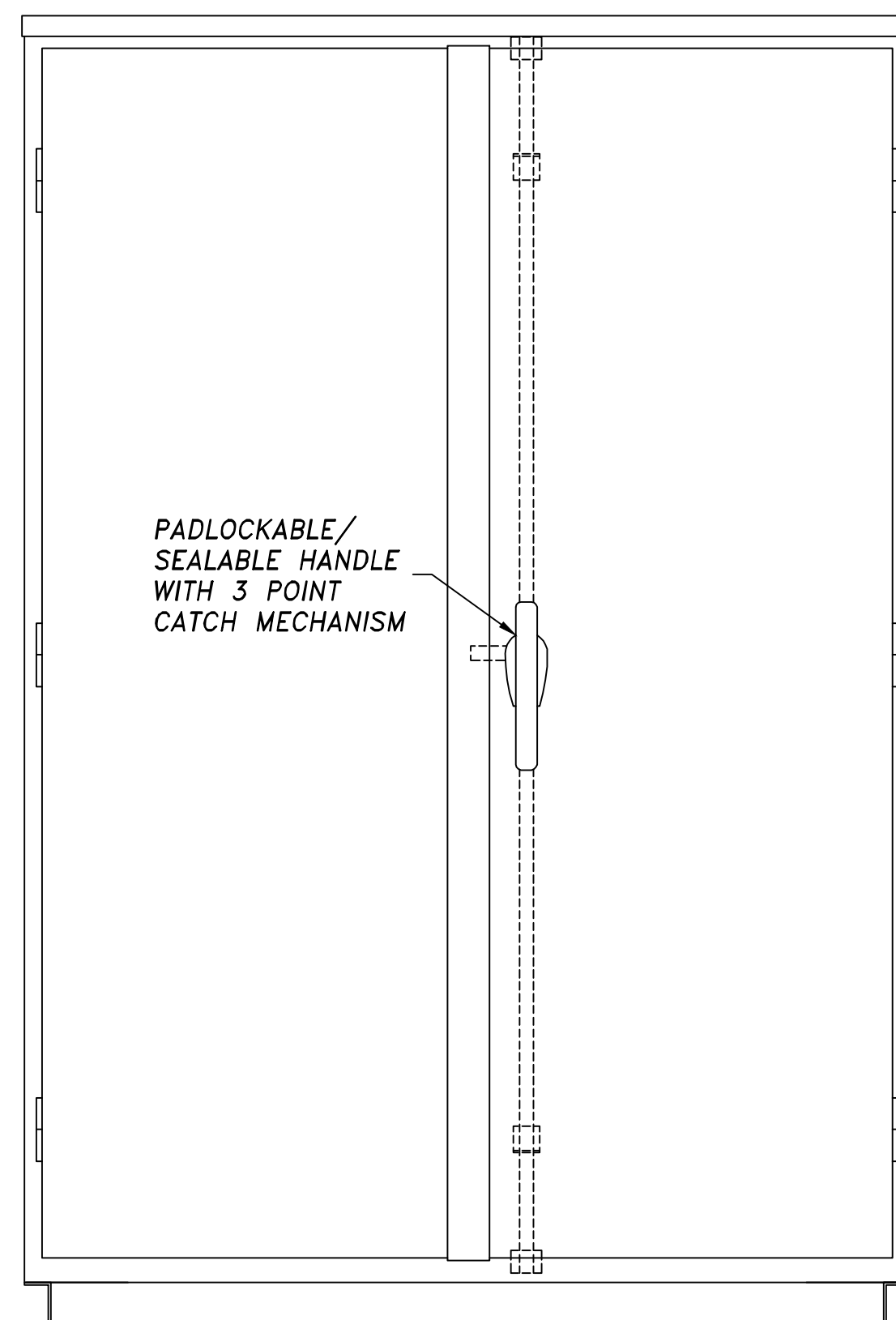
C/T MTG. PAN
SUPPLIED WITH
(6) 1/2-13 X 1" STUDS

GENERAL NOTES:

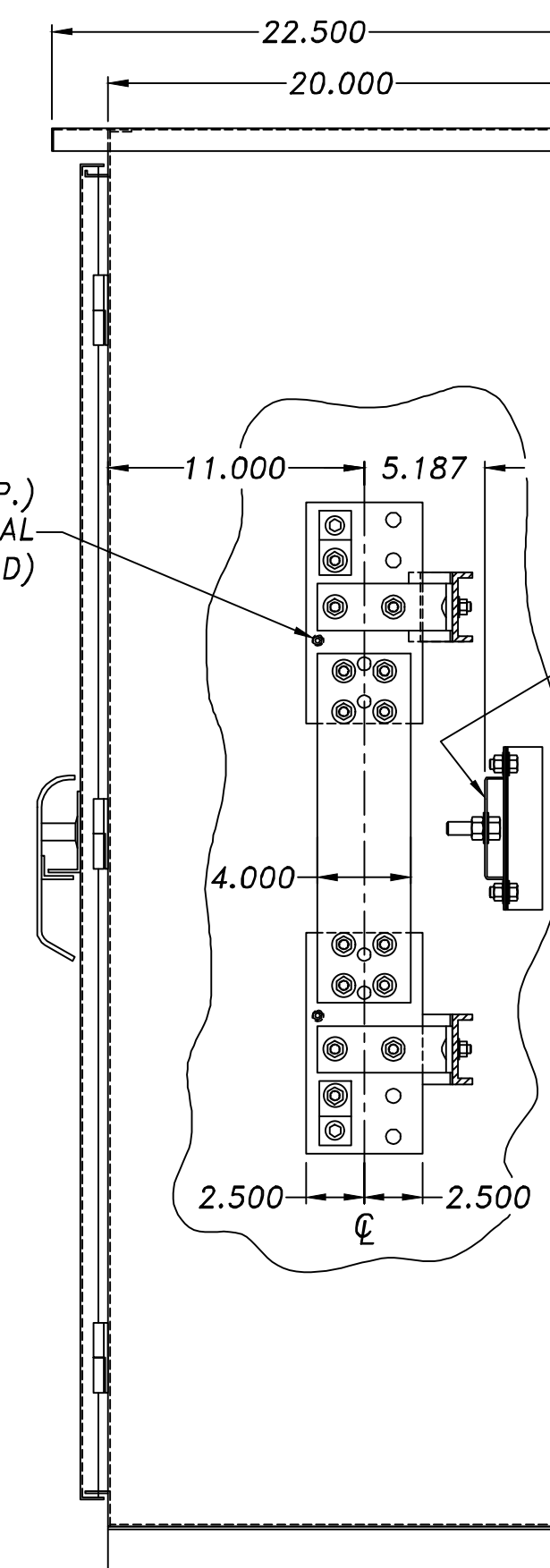
- ALL DIMENSIONS ARE MINIMUM EXCEPT THOSE FOR C/T MOUNTINGS.
- ENCLOSURE DESIGNED FOR EITHER LINE TOP / LOAD BOTTOM CABLE ENTRY OR LOAD TOP / LINE BOTTOM CABLE ENTRY.
- CUSTOMER TO SPECIFY SIZE AND QUANTITY OF CONDUCTORS PRIOR TO RELEASE FOR PRODUCTION.
() _____ MCM PER PHASE & NEUTRAL, LINE AND LOAD.



FRONT VIEW WITHOUT DOORS

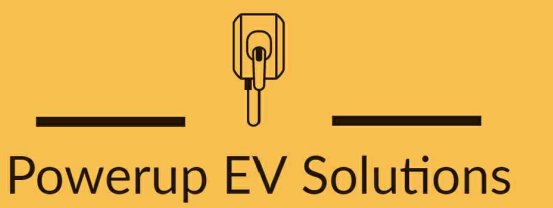


FRONT VIEW WITH DOORS



SIDE VIEW

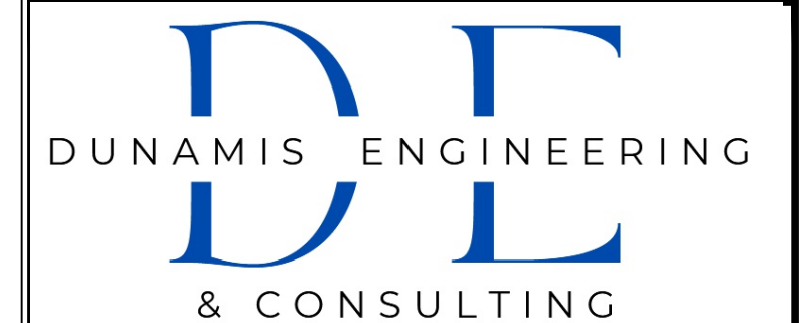
ORANGE AND ROCKLAND - NEMA 3R				A	PJB	01-07-04	REDESIGN OF ENCLOSURE
OUTDOOR CURRENT TRANSFORMER 1000A - 2500A, 600V MAX.				ISS	J.R.	06/28/02	AS BUILT
				DWG. REV.	BY	DATE	DESCRIPTION
				DWG. SIZE	B	SCALE 1:1	DWG. REV. A SHEET 1 OF 1
DRAWN PJB 06/28/02				EAST COAST PANELBOARD, INC.			
CHECKED				A DIVISION OF EAST COAST POWER SYSTEMS			
APPROVED				3 CASS STREET - KEYPORT, NEW JERSEY 07735			
				DWG. NO. A-01190			



issue date
11/21/25

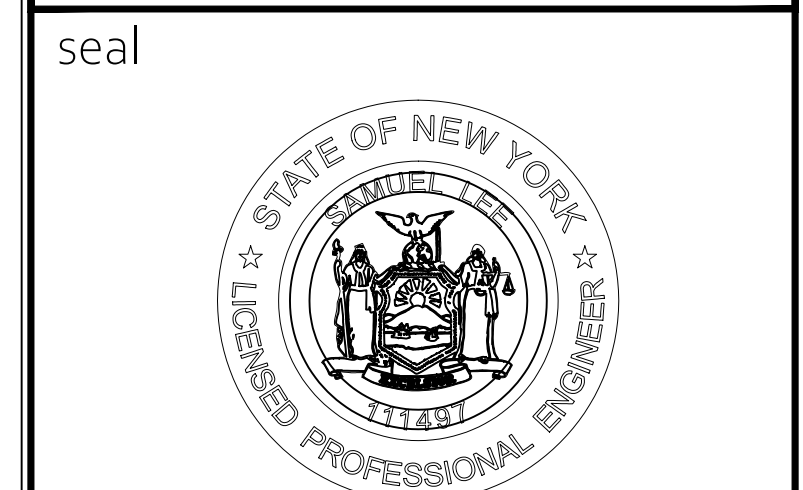
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10 INDIAN ROCK

10 INDIAN ROCK
SUFFERN, NY 10901

project number
100.07

date
08/22/25

drawing name
ELECTRICAL DETAILS II

drawing number
E.201

Tesla V3.5 Supercharger Cabinet

The Tesla V3.5 Supercharger Cabinet provides AC/DC power conversion as part of the Supercharger system when deployed with the V4 Supercharger Post. The advanced system architecture includes highly optimized state of the art power electronics, efficient conversion, and enables site-wide power sharing for maximum throughput.

Key Features

- Supports NACS, CCS1, CCS2, GB
 - High power density/compact footprint
 - Compliant with global EVSE standards
 - High efficiency low noise cooling system
- Global voltage input range
 - Rugged enclosure for all environments
 - Surface mount wiring options
 - High power factor and low harmonics



V3.5 Supercharger Cabinet Technical Specifications

AC Input (Electrical)		Input (V _{AC})	480	440	415	400 380
	Rated AC Input Power	Power (kVA)	387	354	334	322 306
	AC Input Voltage	380 VAC -480 VAC	(-5%, + 10%), 4-wire 3AC+N			
	Ac Input Current	465 A _{AC} Max.				
	Frequency	50 Hz /60 Hz				
	Power Factor	≥ 0.99				
	Current THD	< 3%				
	Voltage THD	< 2%				
AC Input (Mechanical)	Conductor Sizes	L1, L2, L3, N: 150 - 400 mm2, 250 - 750 MCM PE: 10 - 70 mm2 , #8 AWG - 2/0				
	Conductor Material Type	L1, L2, L3, N: Cu, Al PE: Cu/Al				
	Mfr. Termination Temp. Rating	90°C				
Shared DC Bus (Electrical)	Max Rated DC Bus Power	Power (kW)	575			
	Max Rated DC Bus Current	Current (ADC)	640			
	DC Bus Voltage Range	880 - 1000 VDC				
Shared DC Bus (Mechanical)	Conductor Sizes	V+, V-, (2x/pole): 150 - 300 mm2, 250 - 600 MCM Mid: 16 - 150 mm2, 6AWG - 250 MCM PE: 10 - 70 mm2 , #8 AWG - 2/0				
	Conductor Material Type	V+, V-, Mid: Cu, Al PE: Cu/Al				
	Conductor Voltage Rating	1000 V				
	Mfr. Termination Temp. Rating	90°C				
DC Post Output (Electrical)	Max. Rated Post Power	250 kW				
	Post Rated Voltage Range	0-500 V DC				
	Post Rated Current @Ta=35°C	NACS: 350 A DC , CCS2 & GB Handle: 450A DC				
	Number of Charge Posts	1-4				
	Max Voltage Drop	10 V DC				
DC Post Output (Mechanical)	Conductor Size	V+, V-, (2x/pole): 600 MCM or 300 mm2 AL (certified equipment wiring) PE: 10 - 70 mm2 , #8 AWG - 2/0				
	Conductor Material Type	V+, V-, Al, Cu PE: Cu/Al				
	Conductor Voltage Rating	1000 V				
	Mfr. Termination Temp Rating	90°C				

Tesla V3.5 Supercharger Cabinet

2023-05-05

2

V3.5 Supercharger Cabinet Technical Specifications

System	Efficiency	96%
Protection	AC Input side: Class 1	Isolated DC Output
	Over Voltage/Current/Temperature, Surge Protection, Isolation Monitoring	
	Short-Circuit Protection	External Electronic Trip Circuit Breaker
	Short-Circuit Current Rating	85 kA RMS symmetrical
Environmental	Operating Temperature	-30°C to 50°C, -22°F to 122°F
	Ingress Protection	IP66 (Cabinet), IP2X (Cooling)
	Ventilation Requirements	Ventilation Not Required
Noise	Typical noise at 1m	35 dB(A)
Standards	UL 2202, CSA C22.2#107.1, FCC, ICES-003-B, IEC 61851-1, EN 61000-6-2	
	EN 55011, GB/T 18487.1, GB/T 27930, NB/T 33008.1, NB/T 33001	
Layout	Max. Distance to Charge Post	100 m, 340 ft.
Weight	Supercharger Cabinet Weight	4 Post Cabinet: 1110 kg (2448 lbs)
		3 Post Cabinet: 1039 kg (2291 lbs)
Dimensions	Depth, Width, Height	1000, 1250, 2200 mm; 39 _{13/32} , 49 _{1/8} , 86 _{29/32} in.
Mounting	Per-anchor min. Shear Strength	4 kN
	Per-anchor min. Tension Strength	11 kN
DC Post Output (24V)	24V Post Power Supply Conductors	V+, V-, (1x/pole):10 mm2 , #8 AWG CU
		Integrated in signal cable bundle

Tesla V3.5 Supercharger Cabinet

2023-05-05

3



Powerup EV Solutions

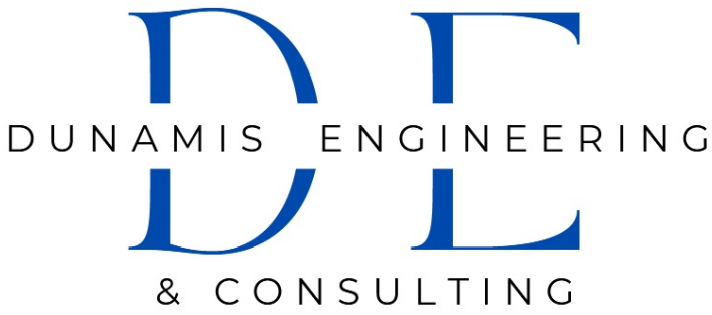
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project number

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date

08/22/25

drawing name

ELECTRICAL DETAILS IV

drawing number

E.203

scale

NTS