

VOLTA

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TOWN OF ORANGETOWN
LAND USE DEPARTS

volta
155 DE HARO STREET
SAN FRANCISCO, CA 94103

STOP & SHOP #2545 - ORANGEBURG COMMONS PHASE 1

1 STEVENS WAY
ORANGEBURG, NY 10962
TOWN OF ORANGETOWN

Kimley»Horn
© 2021 KIMLEY-HORN ENGINEERING AND
LANDSCAPE ARCHITECTURE OF NEW YORK
1 N LEXINGTON AVE, SUITE 505
WHITE PLAINS, NY 10601
PHONE: 914.368.9200
WWW.KIMLEY-HORN.COM

ITEM	TASK	YES	NO	N/A
1	CONTACT 811 UTILITY PRIOR TO EXCAVATION WORK.			
2	NOTIFY VOLTA & KIMLEY-HORN 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 KIMLEY-HORN & VOLTA (IF NEEDED).			
12	SEED & STABILIZE ALL DISTURBED AREAS AFTER FINAL GRADING.			

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.

VOLTA PROPOSES:

- (2) STANDARD PARKING SPACES ARE TO BE CONVERTED INTO (2) STANDARD ELECTRIC VEHICLE (EV) PARKING SPACES. (2) ELECTRIC VEHICLE CHARGING STATIONS ARE TO BE INSTALLED IN LANDSCAPE ISLANDS ADJACENT TO THE EV PARKING STALLS. ELECTRICAL CONDUITS WILL BE EXTENDED FROM THE EXISTING BUILDING TO THE ELECTRIC VEHICLE CHARGING STATION. VOLTA WILL ALSO PAINT AND MARK ALL EV CHARGING PARKING SPACES AND INSTALL NECESSARY PARKING SIGNS.

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REV	DATE	DESCRIPTION	BY
1	03/02/2021	CD90s	KRD
2	04/02/2021	CD100s	KRD
3	08/27/2021	ACABOR Review	JG

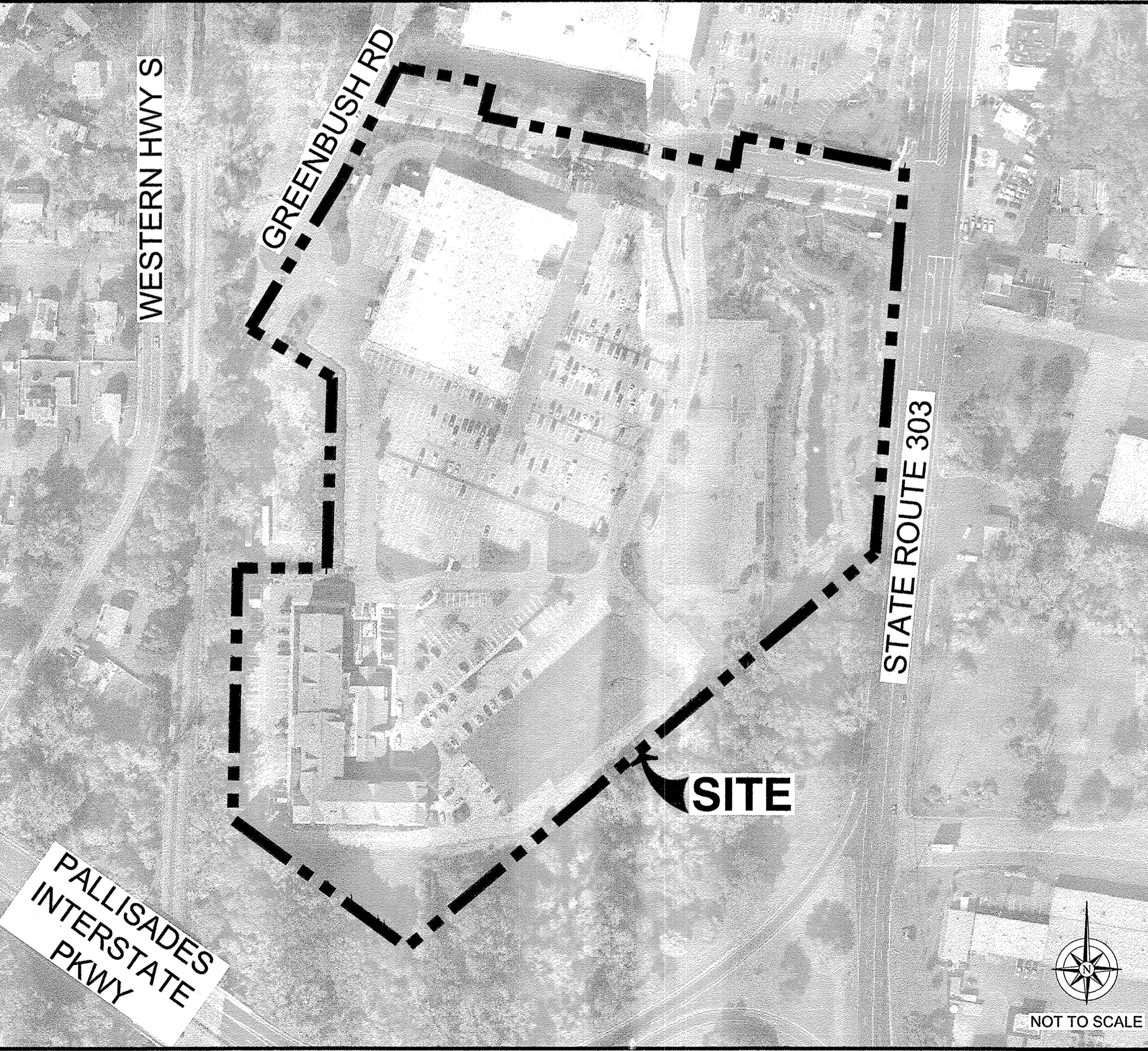
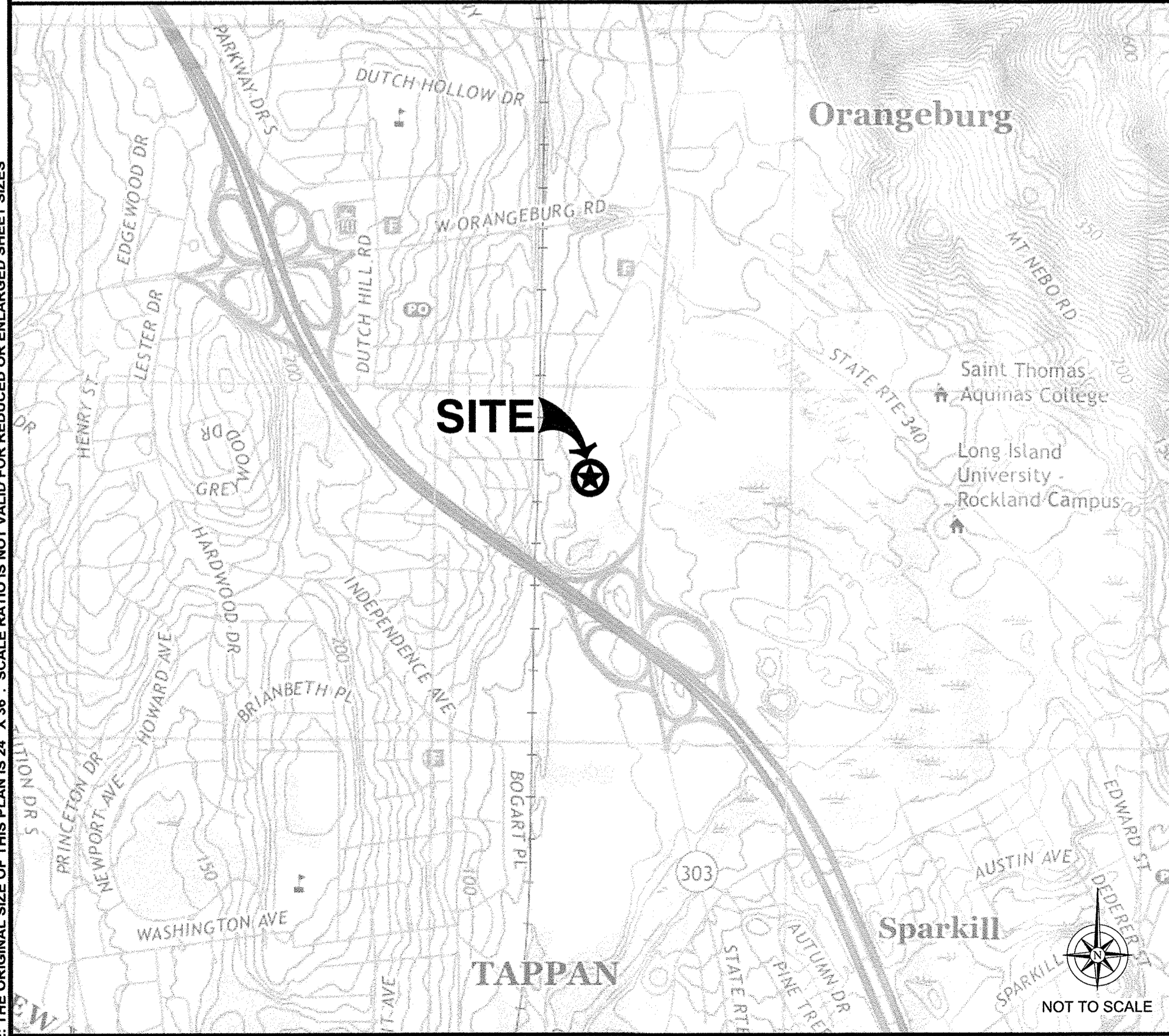
ISSUE DATE
08/31/2021

CONTRACTOR VERIFICATION CHECKLIST

CODE BLOCK

PROJECT DESCRIPTION

PROJECT TEAM



Sheet Number	Sheet Title
C0-00	COVER SHEET
C0-01	GENERAL NOTES
C0-02	VOLTA STATION OVERVIEW
C1-00	OVERALL SITE PLAN
C2-00	ENLARGED SITE PLAN
C3-00	SITE DETAILS
C3-01	SITE DETAILS
C3-02	SITE DETAILS
C3-03	SITE DETAILS
E1-00	ELECTRICAL ONE LINE DIAGRAM & PANEL SCHEDULE
E2-00	ELECTRICAL NOTES & DETAILS

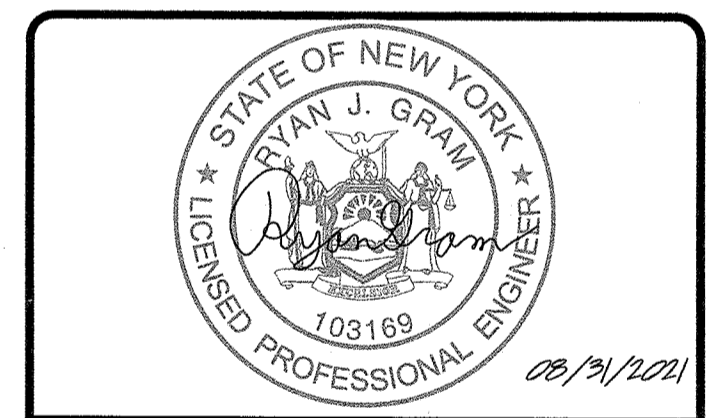
SHEET INDEX



Know what's BELOW.
CALL before you dig.
CALL AT LEAST TWO WORKING
DAYS BEFORE YOU DIG

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

ISSUED FOR **PERMIT**



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STOP & SHOP #2545- ORANGEBURG COMMONS PHASE 1

1 STEVENS WAY
ORANGEBURG, NY 10962

SHEET TITLE
COVER SHEET

SHEET NUMBER
C0-00

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

GENERAL NOTES:

- VOLTA WILL PROVIDE AN INSTALLATION GUIDE AND OTHER SUPPORTING DOCUMENTS AT TIME OF CONSTRUCTION.
- 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.
- 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.
- PROPOSED PAVEMENT STRIPING SHALL LINE UP WITH EXISTING STRIPING WHEREVER POSSIBLE. ADDITIONAL PAVEMENT STRIPE IS NOT NECESSARILY PARALLEL TO THE CONSTRUCTED CHARGING ISLAND.
- 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 JUDGMENT 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.
- CONTRACTOR SHALL ACHIEVE A MINIMUM OF 1% BUT NO MORE THAN A 2% SLOPE IN ANY DIRECTION WITHIN ADJACENT ACCESSIBLE SPACE AND BLEND ASPHALT OVERLAY TO EXISTING GRADES AS REQUIRED. CONTRACTOR SHALL PROVIDE A SKETCH TO VOLTA OF PROPOSED LIMITS OF ASPHALT OVERLAY TO ACHIEVE THIS REQUIREMENT PRIOR TO BEGINNING PAVEMENT WORK.
- ACCESSIBLE EV STALLS WERE DESIGNED BASED ON EXISTING CONDITIONS AND WITHOUT THE BENEFIT OF SURVEY DATA. ALL ADA AND LOCAL REQUIREMENTS INCLUDING BUT NOT LIMITED TO SLOPE AND SPACING SHALL BE CONFIRMED BY THE CONTRACTOR AND MET AT THE TIME OF CONSTRUCTION.
- CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES IN ACCESSIBILITY PRIOR TO CONSTRUCTION.
- 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 & GRADING NOTES:

- ADDITIONAL EROSION CONTROL DEVICES TO BE USED AS REQUIRED BY LOCAL INSPECTOR.
- 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.
- 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.
- 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 ACTIVITIES.
- 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 SOURCE.
- SEED ALL DISTURBED AREAS UNLESS OTHERWISE NOTED AS PART OF THIS CONTRACT.
- 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.
- 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 PRACTICES SHALL BE INSTALLED PRIOR TO STOCKPILE OPERATIONS.
- CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
- 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.
- 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.
- DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSES.

ADA COMPLIANCE:

- CURB RAMPS ALONG PUBLIC STREETS AND IN THE PUBLIC RIGHT-OF-WAY SHALL BE CONSTRUCTED BASED ON THE CITY STANDARD CONSTRUCTION DETAILS AND SPECIFICATIONS.
- 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.
- 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.
- 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.
- 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:

- 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.
 - 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.
 - 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.
 - 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.
 - BACKFILL EXCAVATIONS AND REPAIR PAVEMENT PER SPECIFICATIONS BELOW.
 - 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.
 - 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.
 - EXCAVATE TRENCHES TO A DEPTH FOUR INCHES (4") DEEPER THAN BOTTOM OF FINISHED PIPE ELEVATION.
 - 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.
 - REMOVED PAVEMENT, CONCRETE AND EXCAVATED MATERIALS UNSUITABLE FOR USE AS BACKFILL SHALL BE DISPOSED OFFSITE.
 - 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").
 - 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.
 - 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.
 - RESTORE GRASS, LANDSCAPING, IRRIGATION AND ALL FEATURES TO THEIR PRECONSTRUCTION CONDITION.
- ANY UTILITIES, PAVEMENT, IRRIGATION, LANDSCAPING OR OTHER SITE FEATURES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY EV CHARGING STATION VENDOR TO SITE HOST SPECIFICATION.
 - 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.
 - 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.
- WHERE APPLICABLE, UTILITY SERVICE PROVIDER TO USE SITE HOST APPROVED ROE (RIGHT OF ENTRY) AGREEMENT. SITE HOST PROGRAM MANAGER WILL PROVIDE TEMPLATE WHEN NECESSARY.
- ASPHALT PAVEMENT REMOVAL AND REPLACEMENT
 - 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.
 - REMOVE THE PAVEMENT WITHOUT DAMAGING THE PAVEMENT THAT IS TO REMAIN IN-PLACE.
 - 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.
 - PLACE AND COMPACT BASE MATERIAL TO NINETY-FIVE PERCENT (95%) OF ASTM D698.
 - 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.
 - 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.
 - 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.
 - 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").
 - 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.
 - 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.
 - 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").
 - THE CONTRACTOR SHALL UTILIZE THE APPROPRIATE HEAVY COMPACTION EQUIPMENT TO ACHIEVE THE REQUIRED COMPACTION OF THE ASPHALT.
 - 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.

PROJECT LEGEND:
(SCALE VARIES PER SHEET)

	DETAIL NO. SHEET NO.
	PROPERTY LINE
	BREAK LINE
	EXISTING CURB
	EXISTING PARKING STRIPE
	EXISTING SHRUB
	EXISTING FIRE HYDRANT
	EXISTING INLET
	EXISTING MANHOLE
	EXISTING SIGN
	EXISTING ELECTRICAL ROOM
	PROPOSED ELECTRICAL CONDUIT
	PROPOSED COMMUNICATIONS CONDUIT
	PROPOSED PARKING STRIPE
	PROPOSED CONCRETE WHEEL STOP
	PROPOSED CONCRETE PAD
	PROPOSED VOLTA V4 L2 CHARGING STATION
	PROPOSED SIGN POST
	PROPOSED LANDSCAPING - RHUS AROMARICA
	PROPOSED LANDSCAPING - LIRIODIE SPICATA

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

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ORANGEBURG
COMMONS PHASE 1**

**1 STEVENS WAY
ORANGEBURG, NY 10962**

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

C0-01

Volta Gen4 L2 Station

Volta provides turn-key Electric Vehicle (EV) charging services for premium retail and entertainment destinations. We install and maintain the charging amenity at no cost to site partners as well as EV drivers, driving increased property value and attracting more customers who stay longer.

VOLTA STATION BENEFITS

- Installation, equipment and maintenance is paid by Volta
- Charges all electric vehicles
- Free electricity supported through third party content on displays
- Volta stations are occupied 80% of the retail day
- Volta has provided 88M free sponsored electric miles, delivered 25 gigawatt hours and eliminated over 39M pounds of CO2 emissions

CHARGING UNIT INFORMATION (Single Charging Units)

- Size: H 85.0" x W 36.5" x D 15.5"
- Display Size: H 48" x W 27"
- Power Type: 208/240VAC, 40A, 10kW max; UL 2202
- Plug: SAE J1772 compliant connector

POWER REQUIREMENTS

- Charging unit: 50A/2P, 208/240 breaker
- Display/connectivity: 20A/1P, 120V breaker

INSTALLATION REQUIREMENTS

- Wire Diameter: #6 AWG minimum. Larger for longer conduit runs
- Conduit Diameter: 1.5" minimum per station. Larger conduit required for runs over 250'



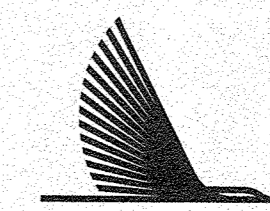
55" Media Display

Charges up to 30miles per hour

Universal J1772 connections

Cable Management

Fully Networked



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SHEET TITLE

**VOLTA STATION
OVERVIEW**

SHEET NUMBER

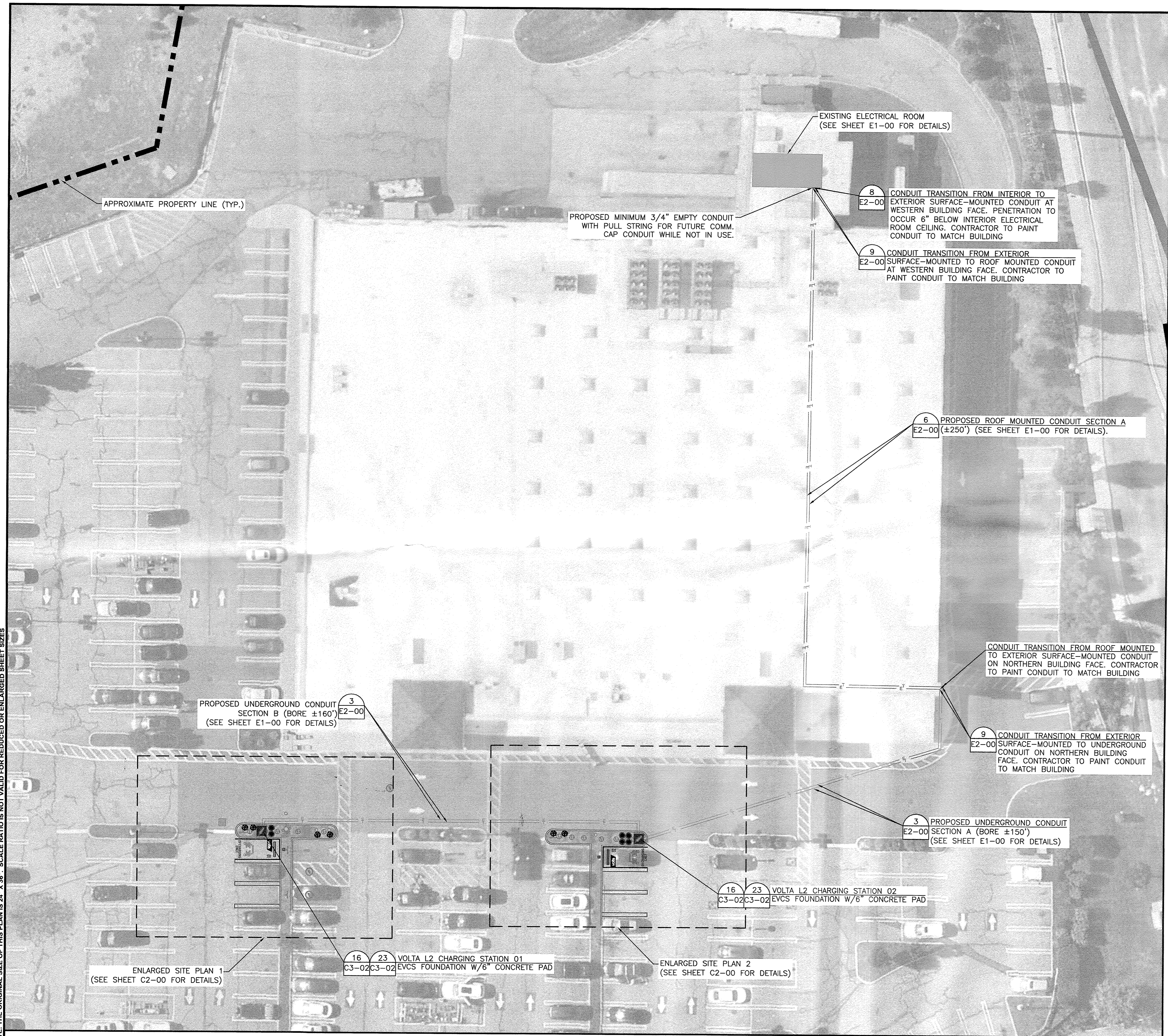
C0-02

volta

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CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FIELD CONDITIONS AND IS TO ALERT THE ENGINEER AND VOLTA OF ANY DISCREPANCIES PRIOR TO STARTING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH VOLTA PM FOR ALL FINAL PLACEMENTS OF INFRASTRUCTURE.

CONSTRUCTION NOTES:

1. CONTRACTOR RESPONSIBILITIES CONSISTS OF, BUT NOT LIMITED TO, CHARGING STATION MOUNTING, FOUNDATION CONSTRUCTION, CONDUIT INSTALLATION, AND WIRING.
2. CONTRACTOR TO PAINT PROPOSED EV PARKING SPACES PER JURISDICTIONAL REQUIREMENTS.
3. EXACT STATION PLACEMENT AND ROTATION ANGLE MAY VARY SLIGHTLY UPON INSTALLATION DEPENDING ON SITE CONDITIONS.
4. CONTRACTOR TO FIELD VERIFY ALL STALL DIMENSIONS AND ALL EQUIPMENT LOCATIONS TO ENSURE SUFFICIENT SPACE IS AVAILABLE.
5. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN DRILLING INTO EXISTING CIP SLAB AND CIP DROP PANELS TO AVOID DAMAGE TO ANY REINFORCING AND EXISTING STRUCTURAL COMPONENTS.
6. USE APPROVED ASTM METHOD (X-RAY, PACOMETER, CPR, ETC.) TO LOCATE MILD STEEL AND PRE-STRESSING TENDONS PRIOR TO DRILLING. DO NOT CUT OR DRILL THROUGH ANY EXISTING REINFORCING. ADJUST LOCATION AS NECESSARY TO AVOID EXISTING REINFORCING. ENSURE 1" GAP MIN. BETWEEN REBAR AND ANCHORAGE.
7. VOLTA WILL MAKE EVERY EFFORT TO FOLLOW, WITH THEIR PROPOSED CONDUIT, AN EXISTING CONDUIT ROUTE FROM ELECTRICAL ROOM TO PROPOSED STATION PLACEMENTS. WHEN AN EXISTING ROUTE IS NOT AVAILABLE, VOLTA WILL MAKE EVERY EFFORT TO CONCEAL/HIDE, PAINT AND MINIMIZE VISUAL IMPACT OF CONDUITS ANYWHERE THEY MAY BE VISIBLE TO THE PUBLIC.
8. CONTRACTOR IS RESPONSIBLE TO LOCATE ALL VERTICAL AND HORIZONTAL UTILITIES PRIOR TO DIRECTIONAL BORING. ANY ALTERATIONS TO THE PROPOSED CONDUIT ROUTE ARE TO BE COORDINATED WITH THE PROFESSIONAL ENGINEER(S) PRIOR TO CONSTRUCTION.
9. ANY ITEMS TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR SHALL BE REPLACED TO THE EXISTING CONDITION OR BETTER AT THE CONTRACTOR'S EXPENSE.
10. CONTRACTOR TO LOCATE JUNCTION BOX OR APPROVED ALTERNATIVE FOR SITE SPECIFIC RUN LENGTHS AND BENDS.

PARKING NOTE:

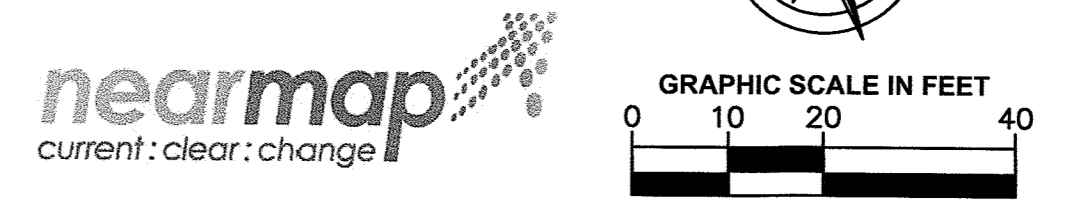
1. FOR THE PURPOSE OF THIS PLAN IT IS ASSUMED THERE IS ADEQUATE PARKING IN EXISTING CONDITIONS TO CONVERT 2 PARKING SPACES TO 2 EV PARKING SPACES.

REFERENCE NOTE:

1. SEE PROJECT LEGEND ON SHEET C0-01 FOR SYMBOLS AND LINE TYPE DESCRIPTIONS.

IMAGE REFERENCE:

AERIAL IMAGE(S) PROVIDED BY NEARMAP IMAGERY ©2021 Nearmap, HERE



volta

155 DE HARO STREET
SAN FRANCISCO, CA 94103

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2	04/02/2021	CD100s	KRD
3	08/27/2021	ACABOR Review	JG

ISSUE DATE
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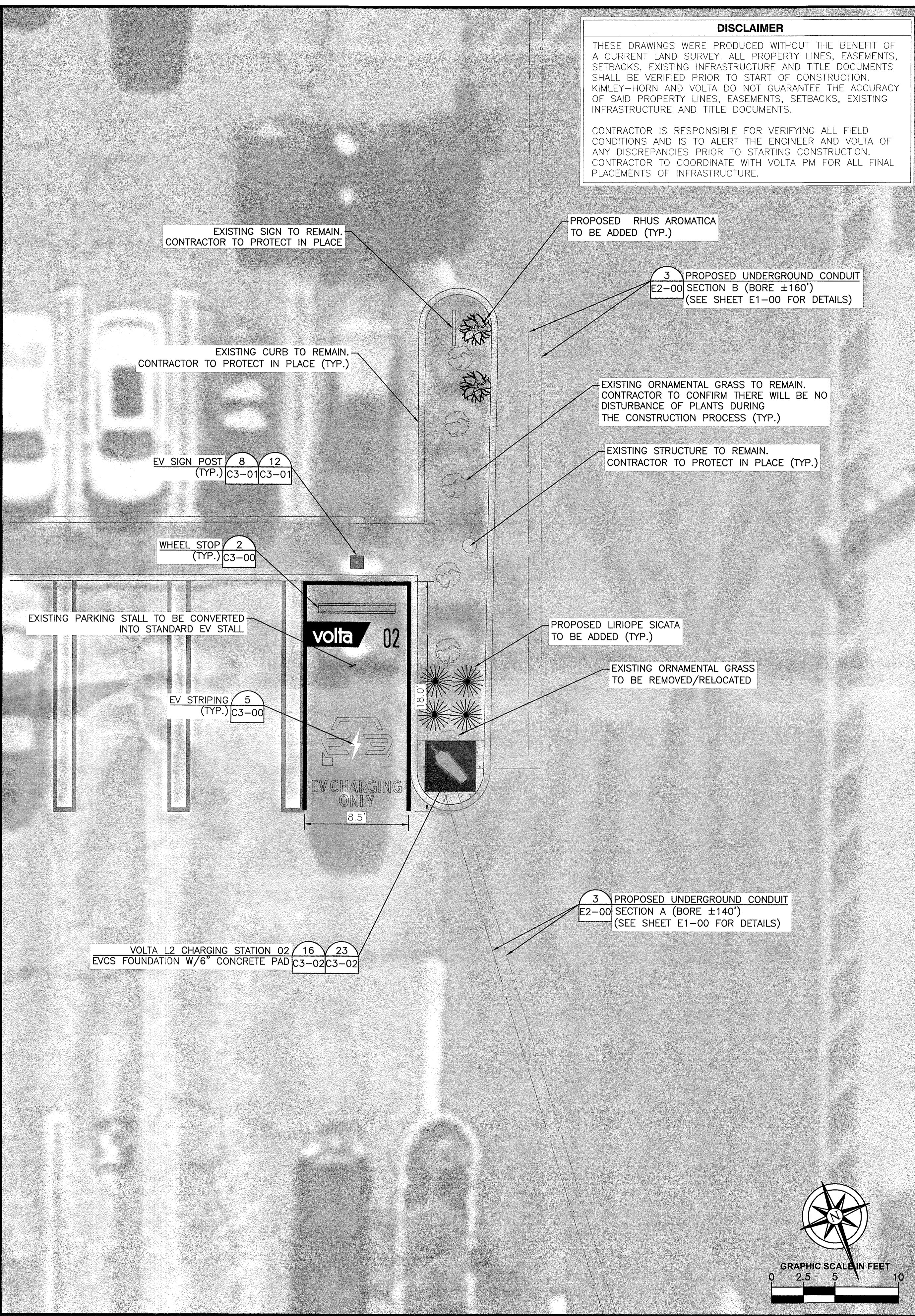
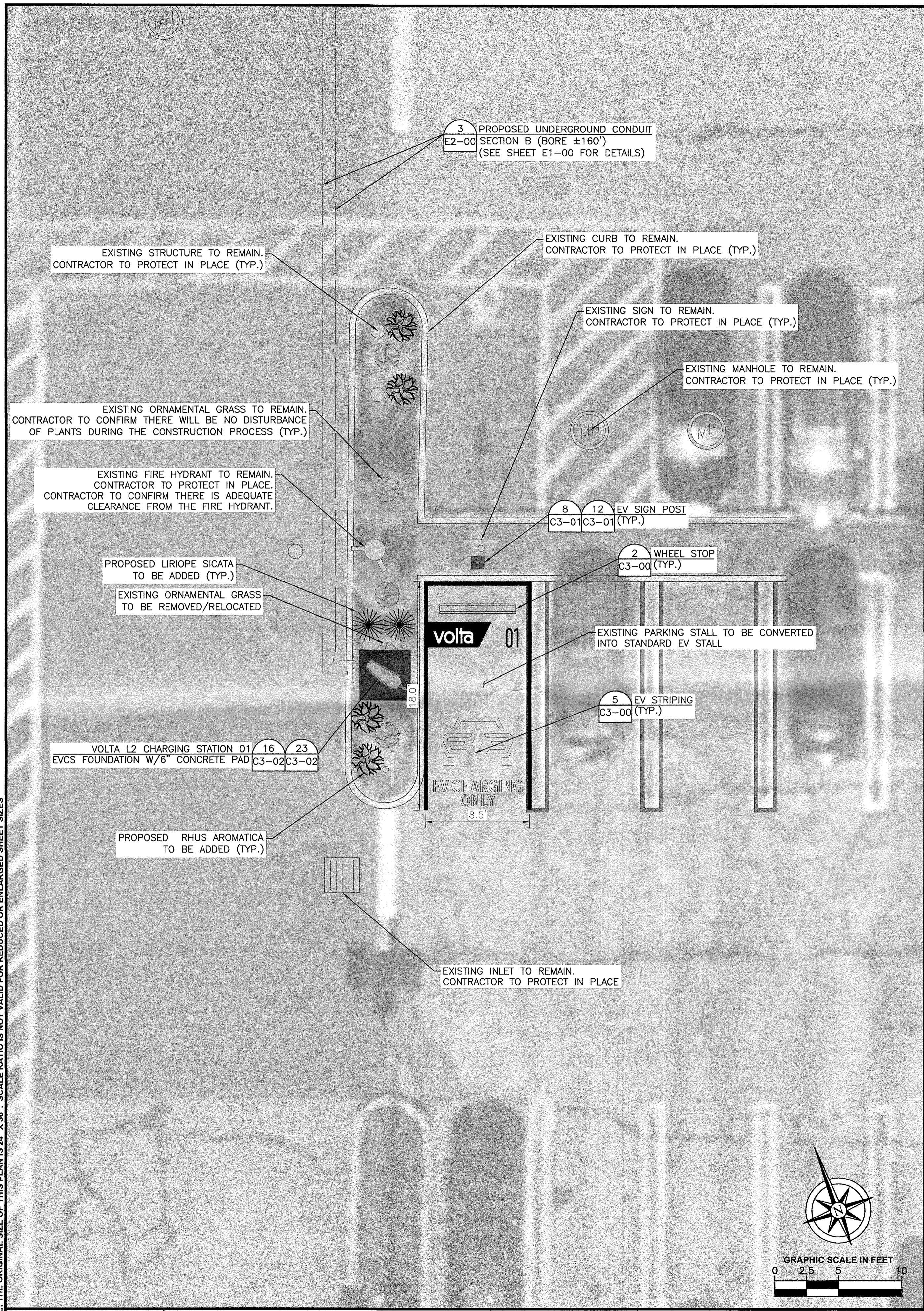
STOP & SHOP #2545-ORANGEBURG COMMONS PHASE 1
1 STEVENS WAY ORANGEBURG, NY 10962

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C1-00

OVERALL SITE PLAN

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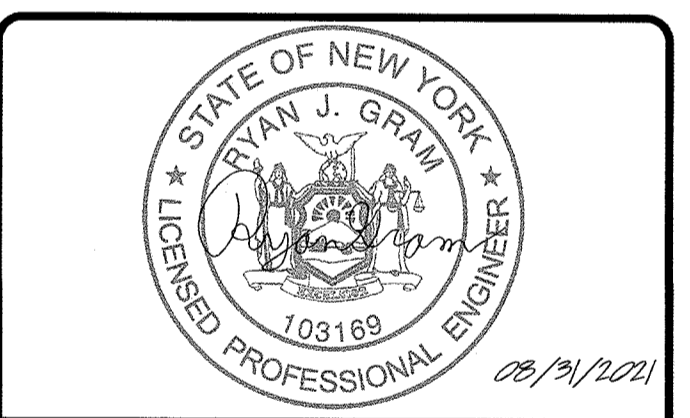
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STOP & SHOP #2545-ORANGEBURG COMMONS PHASE 1
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 ORANGEBURG, NY 10962

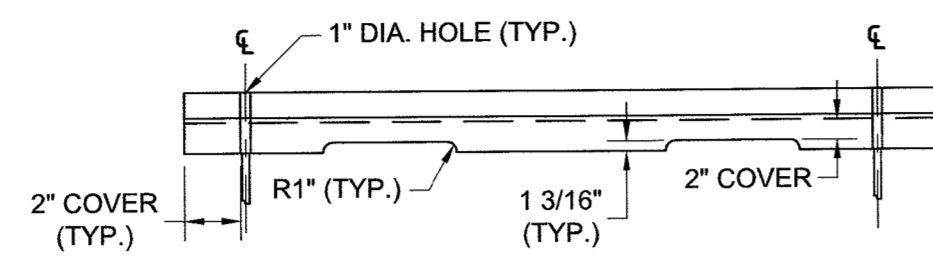
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
C2-00

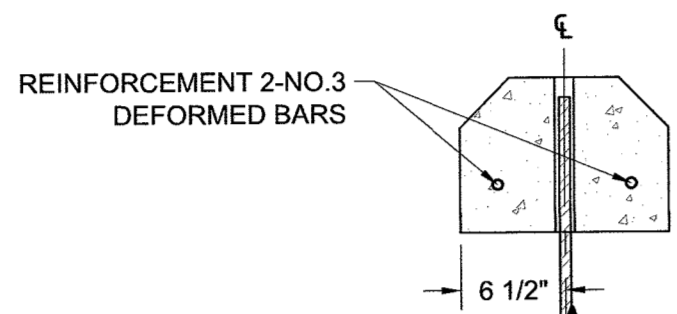
ENLARGED SITE PLAN

ENLARGED SITE PLAN

- UNLESS NOTED OTHERWISE, THE FOLLOWING NOTES RELATING TO THE "SITE DETAILS" SHEETS SHALL GOVERN.
- COMPRESSIVE STRENGTH OF CONCRETE FOUNDATION SHALL BE A MINIMUM OF 4,500 PSI AT 28 DAYS WITH MAXIMUM W/CM RATIO OF 0.45 AND AIR-CONTENT OF 5% +/- 1.5%.
- MINIMUM YIELD STRENGTH OF REINFORCEMENT TO BE 60,000 PSI (ASTM-A615).
- REFERENCE CIVIL AND ELEC DRAWING FOR EQUIPMENT LAYOUT, LOCATION OF CONDUIT, ETC.
- FINAL ANCHOR BOLT AND POLE DESIGN INCLUDING SIZE AND CONFIGURATION ARE BY MFR.
- BEFORE STARTING ANY WORK, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE SITE AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.
- NO GEOTECHNICAL ENGINEERING REPORT WAS PROVIDED BY THE OWNER. FOUNDATION DESIGN IS BASED ON A MINIMUM OF 1,500 PSF NET ALLOWABLE BEARING PRESSURE ON UNDISTURBED NATURAL SOIL OR COMPACTED FILL UNLESS OTHERWISE NOTED.
- UNLESS OTHERWISE DIRECTED BY THE OWNER, ALL FOUNDATION WORK RELATED TO INSTALLATION OF REBAR SHALL BE INSPECTED BY OTHERS.
- KIMLEY-HORN AND ASSOCIATES, INC. IS NOT RESPONSIBLE FOR THE DESIGN OF THE EQUIPMENT OR ANCHORAGE TO THE FOUNDATION. MANUFACTURER SHALL SUBMIT LOADS TO ENGINEER FOR RECORD KEEPING PURPOSES ONLY.
- DESIGN IS BASED ON THE SPECIFIC EQUIPMENT SHOWN IN THESE DRAWINGS AND ILLUSTRATED ON THE VOLTA CUT SHEETS.
- ALL MATERIALS SHALL BE IN ACCORDANCE WITH THE LOCAL DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
- ALL FOUNDATIONS ARE TO INCLUDE COMPACTED SUBGRADE AND MINIMUM 6" COMPACTED STONE BASE UNLESS OTHERWISE SPECIFIED.
- BUILDING CODE: IBC 2018
 - DESIGN LOADS
 - DEAD LOAD: SELF WEIGHT
 - LIVE LOAD: BOLLARDS ARE NOT DESIGNED FOR FULL 6 KIP IMPACT LOAD UNLESS OTHERWISE NOTED "VEHICULAR RATED"
 - WIND LOAD: ASCE 7-10
 - OCCUPANCY CATEGORY = II
 - WIND SPEED = 115 MPH
 - EXPOSURE = B

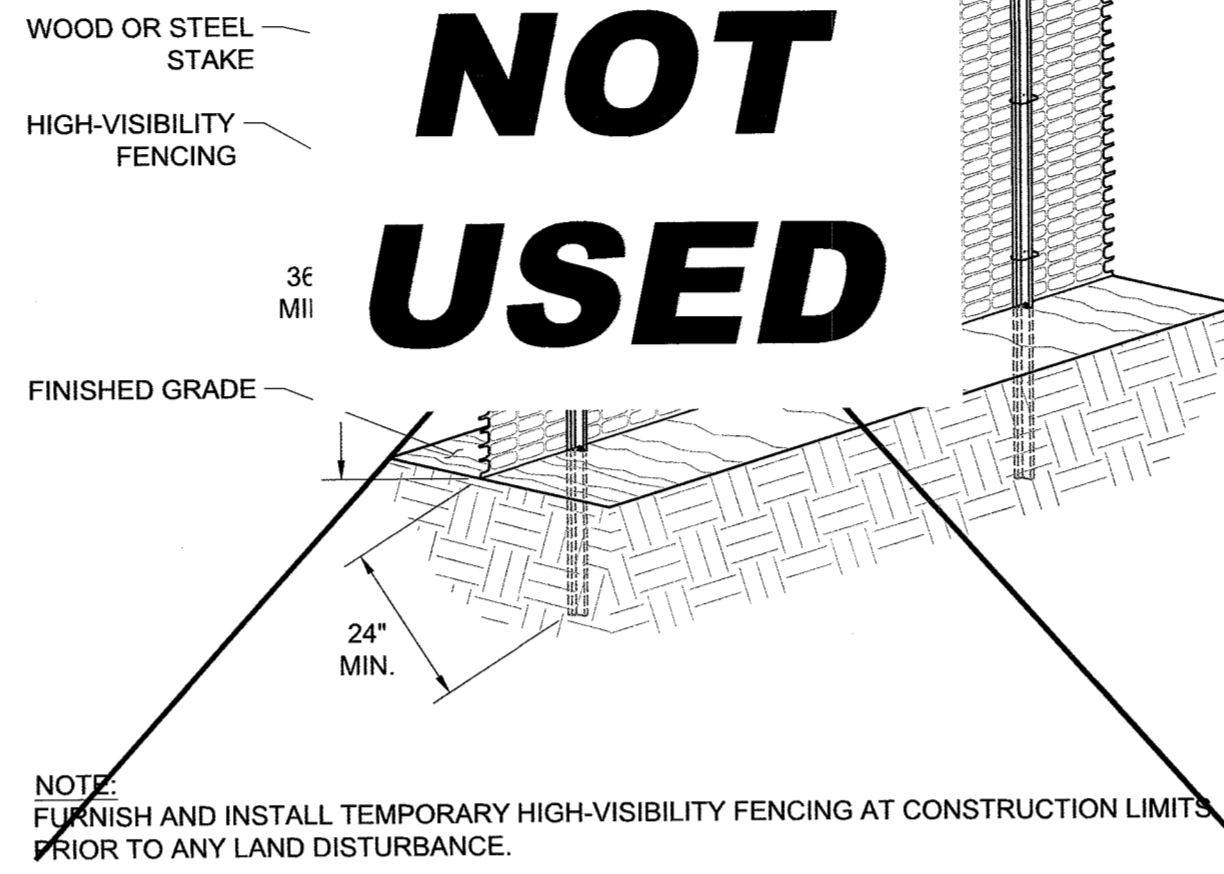
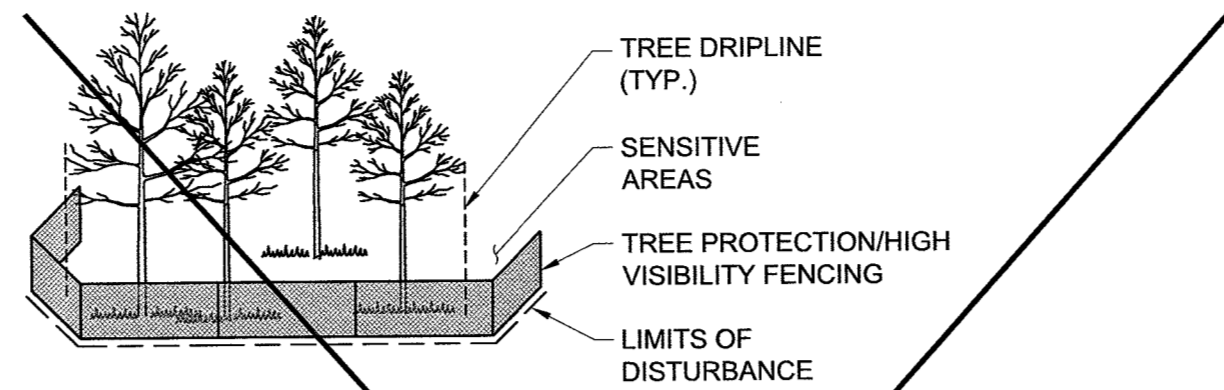


FRONT VIEW
TYPE II (AUTOMOBILE)



SECTION VIEW

- NOTES:
- PRECAST CONCRETE WHEEL STOPS SHALL BE LOCATED AS SHOWN ON THE PLANS. THEN SECURED IN PLACE WITH TWO (2) NO. 7 REINFORCEMENT BARS PER WHEEL STOP.
 - COST OF THE REINFORCEMENT BARS WILL BE INCIDENTAL TO THE CONTRACT UNIT PRICE BID PER EACH FOR THE WHEEL STOPS.
 - WHEEL STOPS TO BE PAINTED WHITE IN ACCORDANCE WITH STRIPING GUIDELINES.



NOTE: FURNISH AND INSTALL TEMPORARY HIGH-VISIBILITY FENCING AT CONSTRUCTION LIMITS PRIOR TO ANY LAND DISTURBANCE.

SCALE 1
N.T.S.

SCALE 2
N.T.S.

SCALE 3
N.T.S.

SCALE 4
N.T.S.

FOR REFERENCE ONLY, DESIGNED AND PROVIDED BY OTHERS

Volta Charging
STRIPING GUIDELINES

PRODUCTS
Cement Background: Benjamin Moore Floor & Patio Battleship Blue N122 - 2X S1 2x 30.0, B1 1x 0.0, G1 0x 30.0
Asphalt Background: Latex-it® 4.75 Gal. Ultra Shield Driveway Filler/Sealer
Traffic Paint: Sherwin-Williams TM2153 LF Yellow TTP-1952D, TM2152 White TTP-1952D

SURFACE PREP
Backgrounds are to only be painted for marquee locations or any location where the existing space has conflicting designations or is poor shape. For all other instances please proceed to branded striping.

CEMENT BACKGROUND:
For cement backgrounds please use battleship blue. All backgrounds must run edge-to-edge across the entire parking space.

ASPHALT BACKGROUND:
Asphalt should be ressealed with sealcoat. All backgrounds must run edge-to-edge across the entire parking space.

BRANDED STRIPING
VOLTA LOGO: Should match the overall background color of the parking stall (unless you are omitting the container shape according to other specs, if so paint it white).

LINES & STENCILS:
Use traffic grade yellow for the lightning bolt stencil. Use traffic grade white for all other lines and stencils.

- SHAPE (WHITE)** Place flush with the top left corner.
- VOLTA LOGO** Center within the shape.
- NUMBERS (WHITE)** The right number lines up flush right to the "G" in "CHARGING" and flush top with the Volta logo. There should be 3 inches in-between the left and right numbers. If stall is less than 8 feet, align numbers with the middle of the "G" (See page 2).
- LETTERS** Place centered, 4 inches from the bottom of the stall with 2.5 inches between the 2 lines.
- CAR** Place centered 14 inches from the top of the letters.

1 of 3

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Volta Charging
STRIPING GUIDELINES

ABSOLUTELY DO NOT

- Paint only a portion of the background (edge-to-edge or not at all)
- Paint the lightning bolt, any color but yellow or white
- Break EV CHARGING ONLY into 3 lines
- Only put 1 number in top right corner
- Paint the Volta logo any color other than white or Battleship Blue/Sealcoat

ACCESSORIES
HEEL BLOCKS Place 8 inches above the logo, centered within the stall. Wheel should be painted white.
WHEEL AISLE Should be painted white.
No need to paint the curbs unless they need an existing or conflicting color. If the case, paint the curb white.

2 of 3

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Volta Charging
STRIPING GUIDELINES

DIAGONAL STALLS

- SHAPE (SEE PAGE 1)** Omit diagonal spaces.
- VOLTA LOGO (WHITE)** 5 inches from the top line at the same angle as the stall lines.
- NUMBERS (WHITE)** The right number lines up flush right to the "G" in "CHARGING" and flush top with the Volta logo at same angle as the stall lines. There should be 3 inches in-between the left and right numbers. If stall is less than 8 feet, align numbers with the middle of the "G" (See diagram)
- LETTERS** Place centered, 4 inches from the bottom of the stall according to the top line with 2.5 inches between the 2 lines.

Place centered 14 inches from the top of the stall at the same angle as the stall lines.

HEEL BLOCKS Place 8 inches above the logo in the same angle as the stall lines, according to the space left in angled /heel blocks should be painted white.

3 of 3

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SCALE 5
N.T.S.

SCALE 6
N.T.S.

SCALE 7
N.T.S.

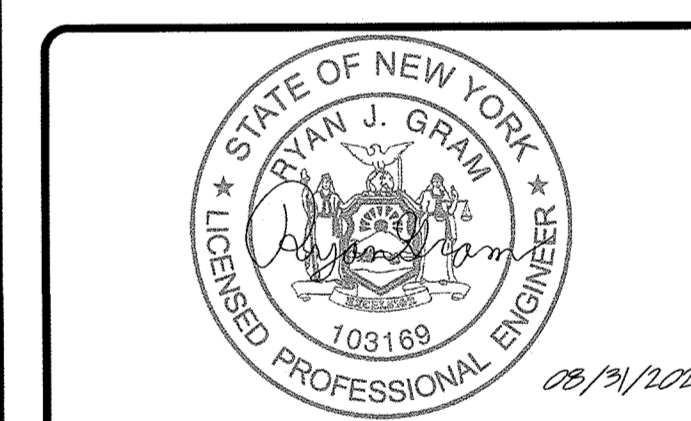
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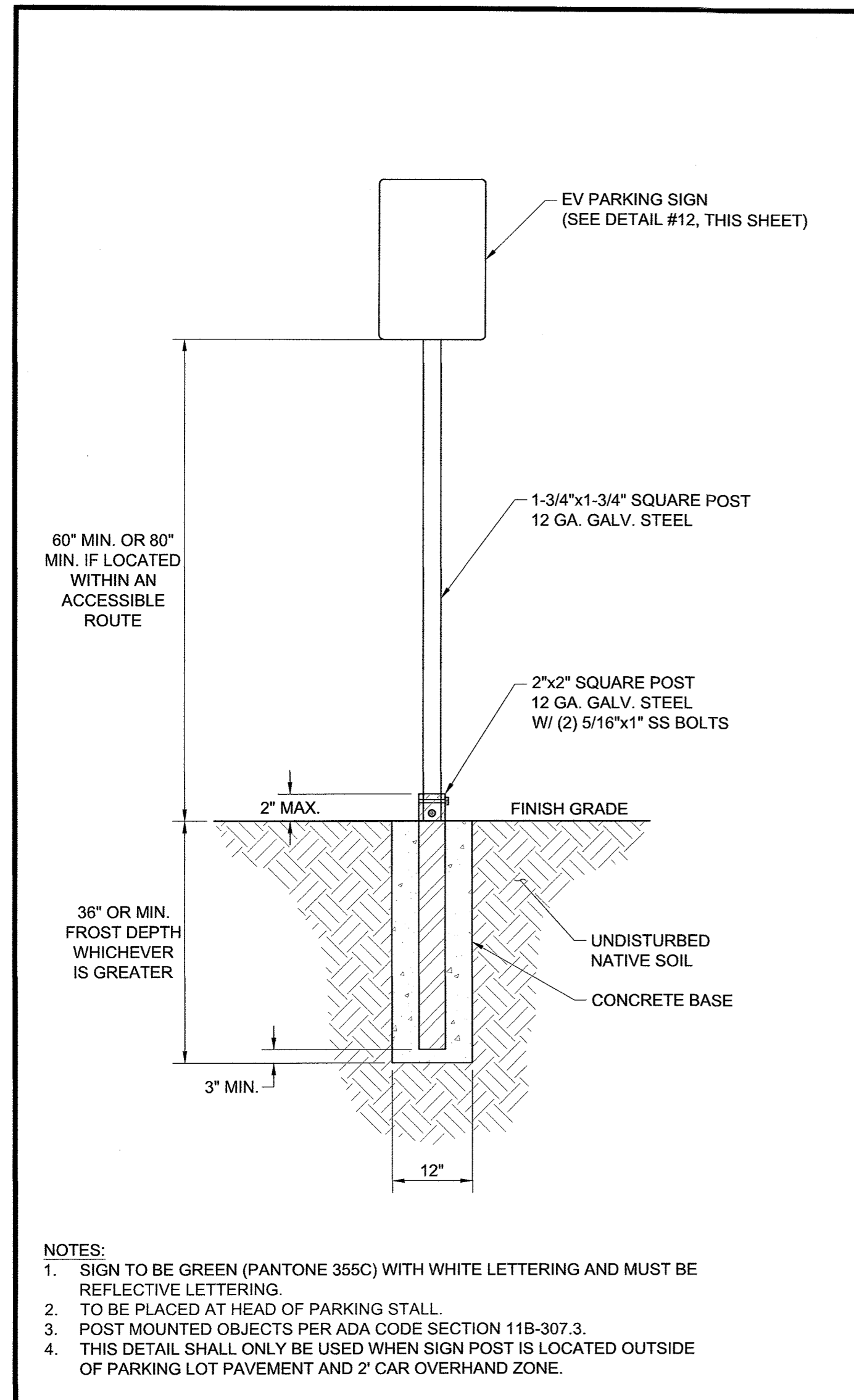
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STOP & SHOP #2545-ORANGEBURG COMMONS PHASE 1
1 STEVENS WAY
ORANGEBURG, NY 10962

SHEET TITLE
SITE DETAILS

SHEET NUMBER
C3-00

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- NOTES:
- SIGN TO BE GREEN (PANTONE 355C) WITH WHITE LETTERING AND MUST BE REFLECTIVE LETTERING.
 - TO BE PLACED AT HEAD OF PARKING STALL.
 - POST MOUNTED OBJECTS PER ADA CODE SECTION 11B-307.3.
 - THIS DETAIL SHALL ONLY BE USED WHEN SIGN POST IS LOCATED OUTSIDE OF PARKING LOT PAVEMENT AND 2' CAR OVERHAND ZONE.

SIGN POST SCALE N.T.S. **8**

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NO TIME LIMIT SIGN
STADIUMS, OTHER VENUES, ECT.

45 MIN. TIME LIMIT SIGN
FAST FOOD RESTAURANTS, ECT.

1 HR. TIME LIMIT SIGN
DRUG STORES OR SIMILAR QUICK/CONVENIENCE SITES

2 HR. TIME LIMIT SIGN
GROCERY STORES, MALLS, ECT.

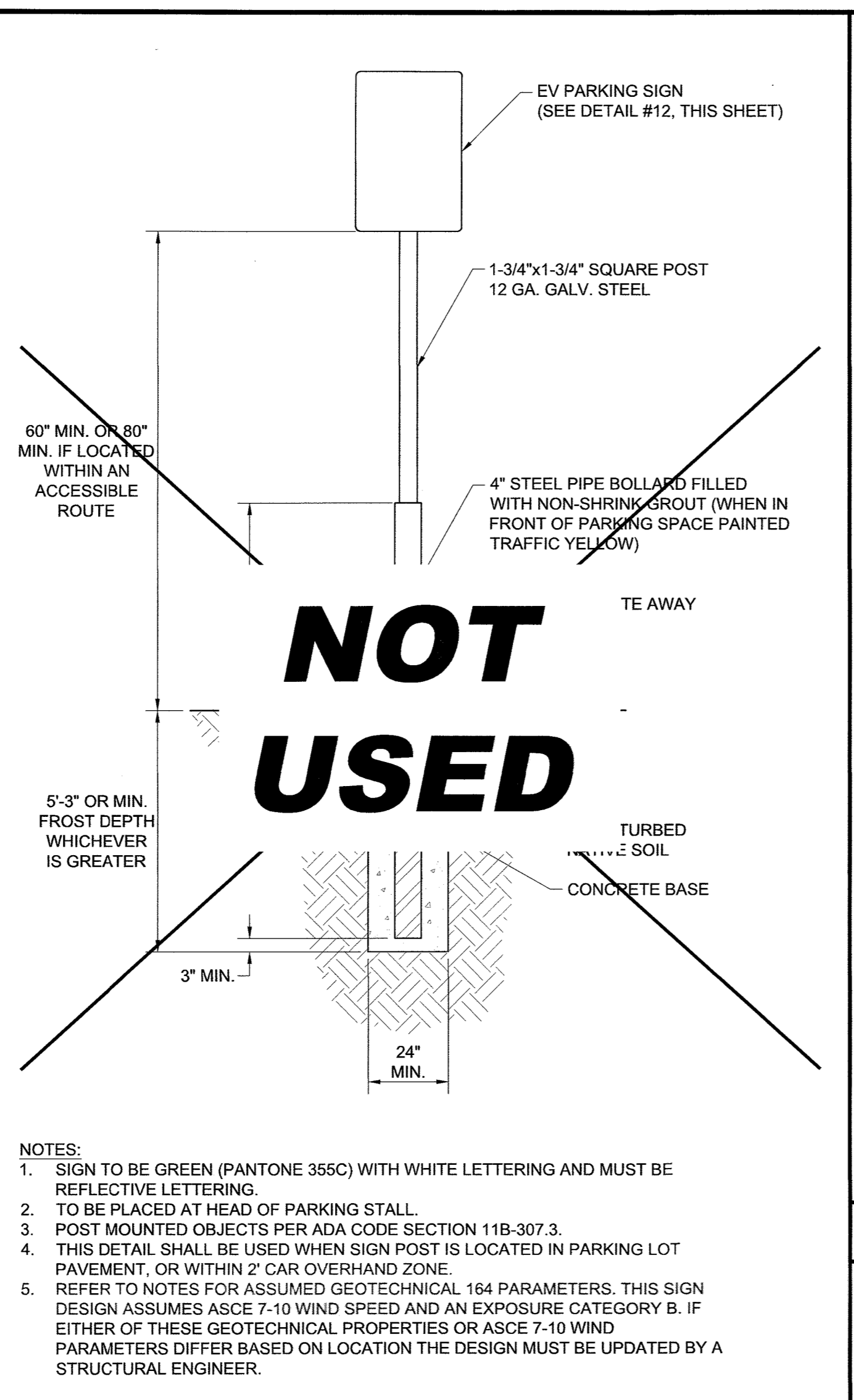
3 HR. TIME LIMIT SIGN
MOVIE THEATERS, ENTERTAINMENT CENTERS, ECT.

30 MIN. TIME LIMIT SIGN
DCFC STALLS

SIGN INSTALLATION TYPE:
CONTRACTOR SHALL COORDINATE WITH VOLTA TO DETERMINE EVCS SIGN TYPE PRIOR TO INSTALLATION.

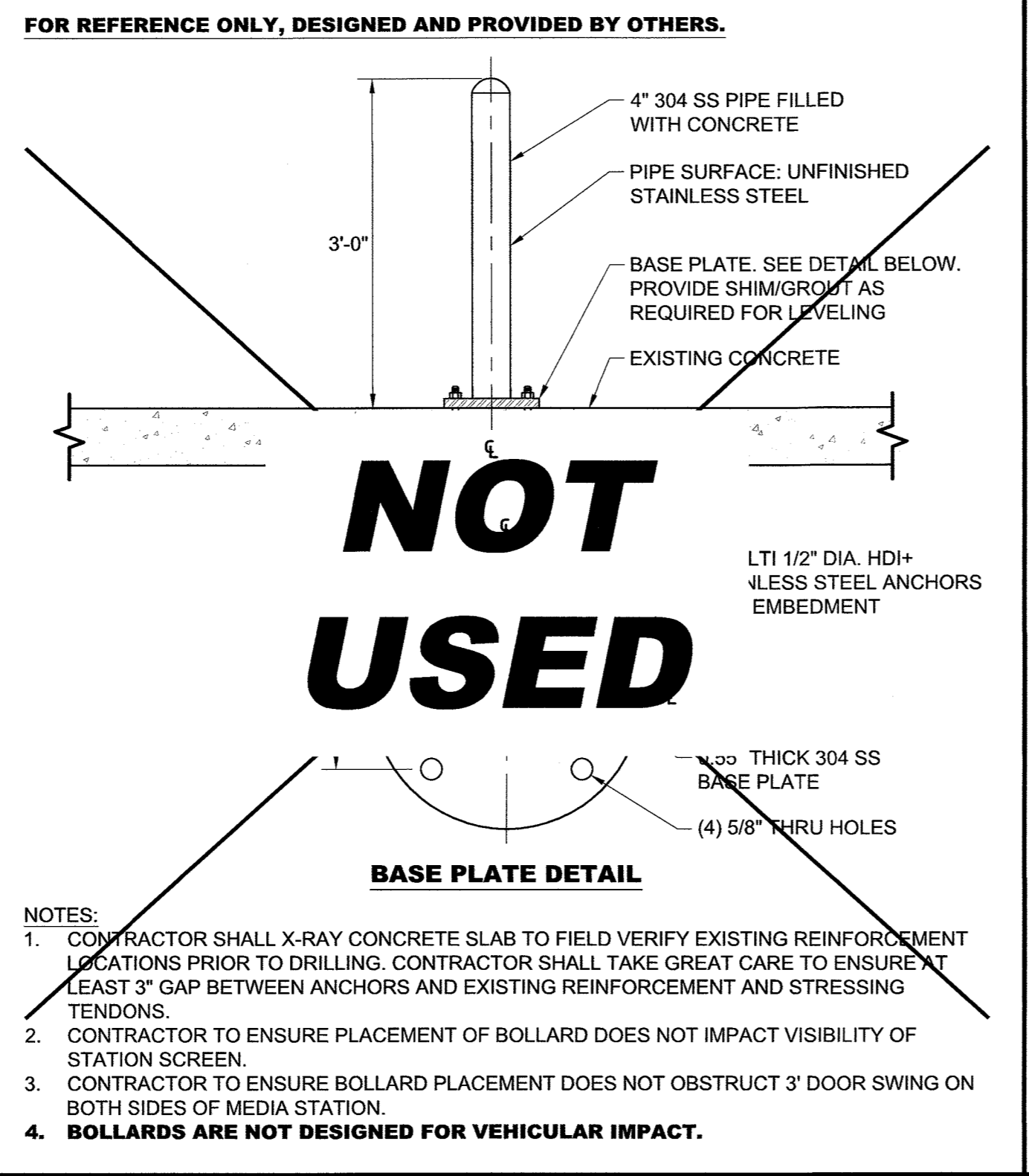
SIGN INSTALLATION HEIGHT:
ALL SIGNS TO BE INSTALLED AT 60" ABOVE FINISH FLOOR. IF SIGNS ARE LOCATED WITHIN AN ACCESSIBLE ROUTE, THEY WILL BE INSTALLED AT 80" ABOVE FINISHED FLOOR. MEASUREMENTS ARE TAKEN FROM BOTTOM OF LOWEST SIGN.

SIGN REQUIREMENTS SCALE N.T.S. **12**

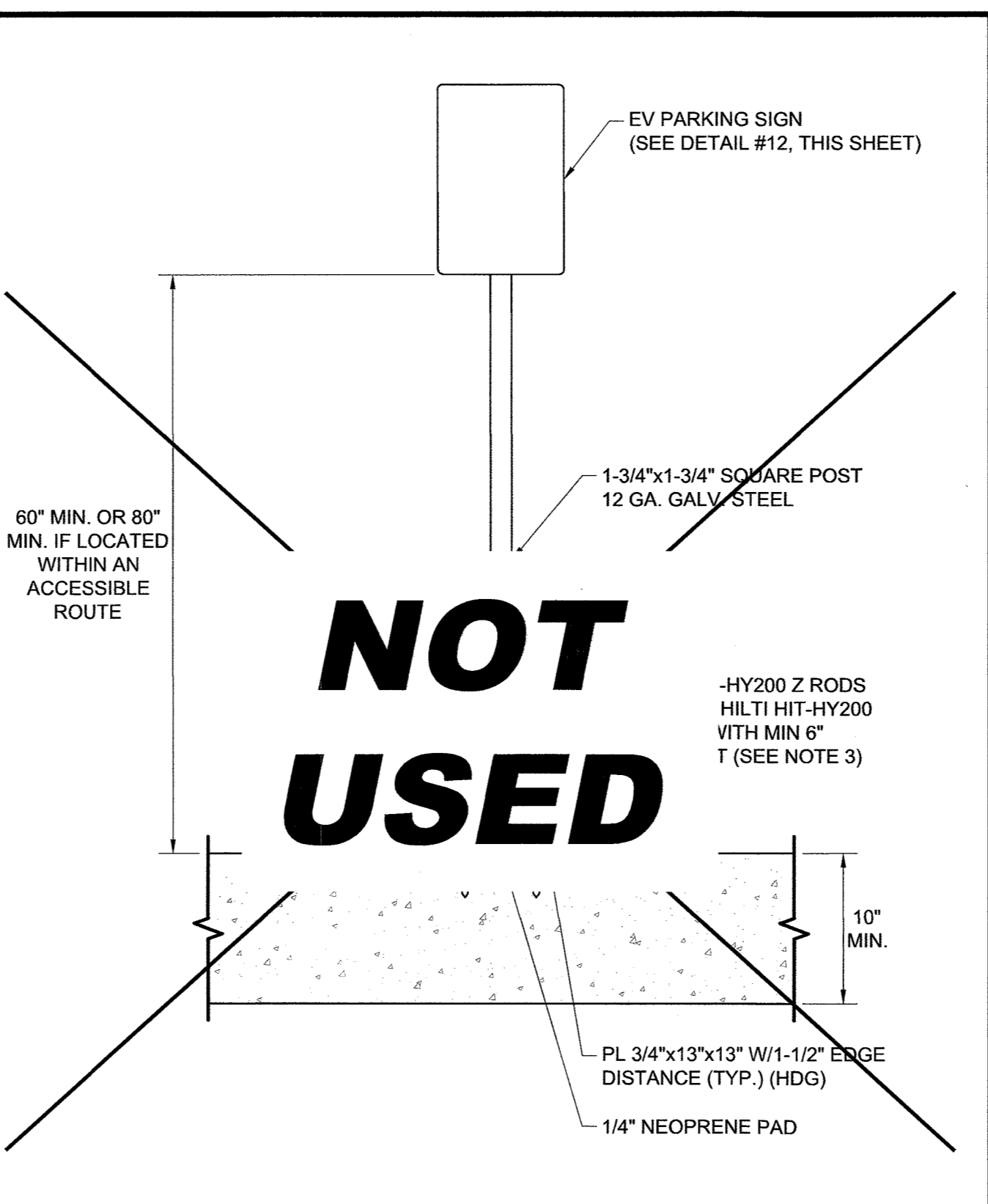


- NOTES:
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 - TO BE PLACED AT HEAD OF PARKING STALL.
 - POST MOUNTED OBJECTS PER ADA CODE SECTION 11B-307.3.
 - THIS DETAIL SHALL BE USED WHEN SIGN POST IS LOCATED IN PARKING LOT PAVEMENT, OR WITHIN 2' CAR OVERHAND ZONE.
 - REFER TO NOTES FOR ASSUMED GEOTECHNICAL 164 PARAMETERS. THIS SIGN DESIGN ASSUMES ASCE 7-10 WIND SPEED AND AN EXPOSURE CATEGORY B. IF EITHER OF THESE GEOTECHNICAL PROPERTIES OR ASCE 7-10 WIND PARAMETERS DIFFER BASED ON LOCATION THE DESIGN MUST BE UPDATED BY A STRUCTURAL ENGINEER.

SIGN POST W/BOLLARD SCALE N.T.S. **9**

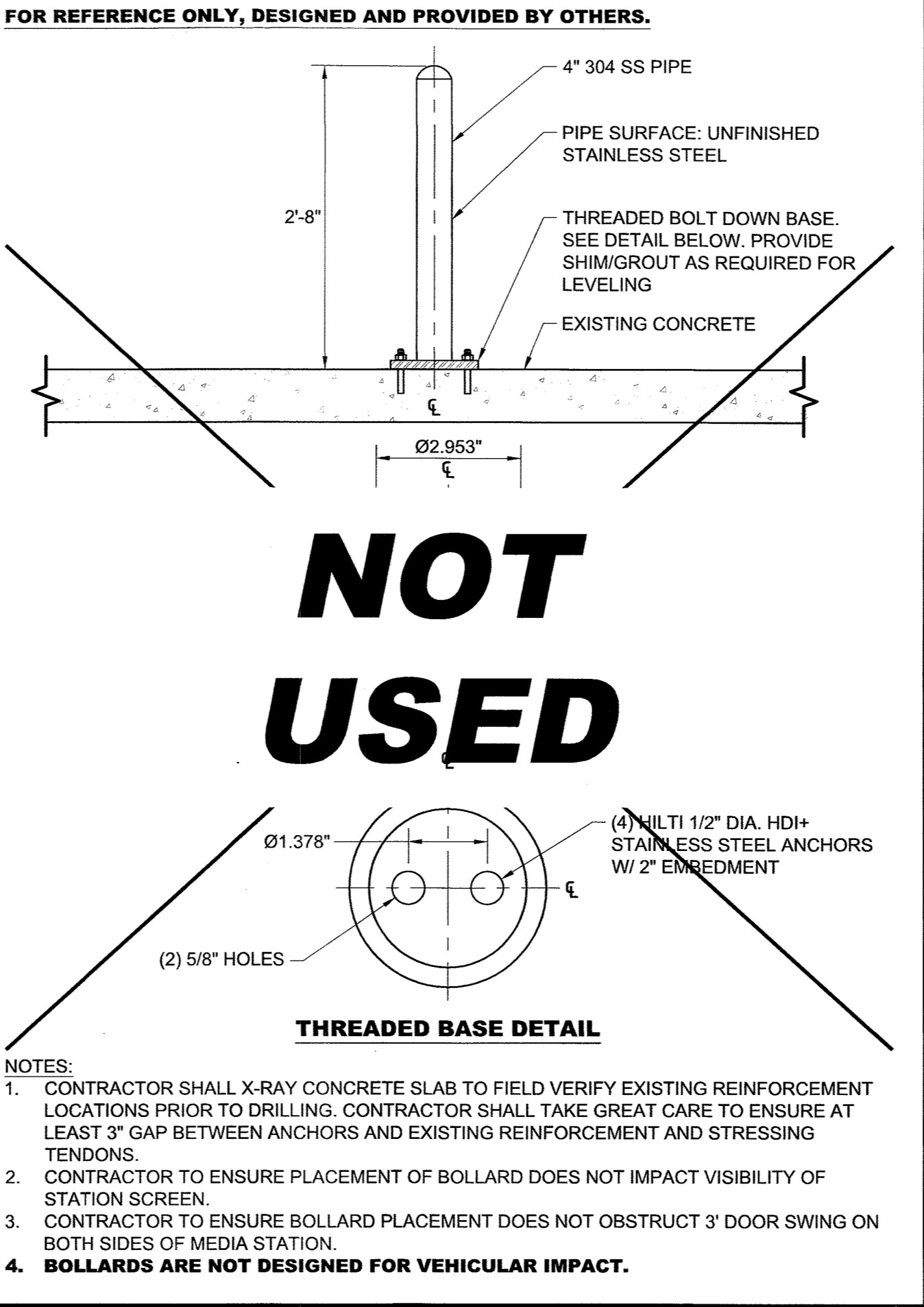


4" DETERRENT BOL. W/ BASE PLATE SCALE N.T.S. **13**

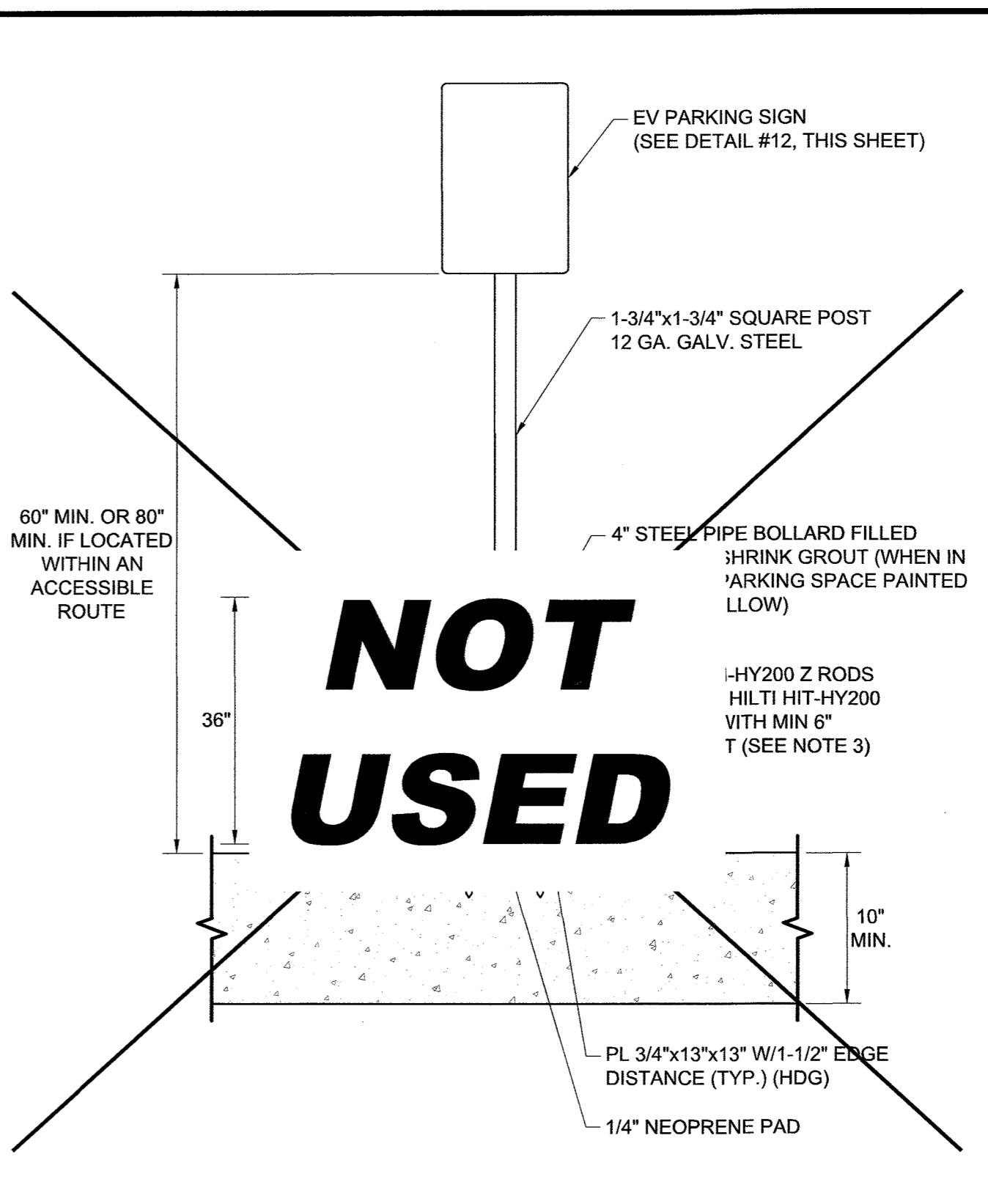


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 - PRIOR TO DRILLING, CONTRACTOR SHALL VERIFY THICKNESS OF EXISTING CONCRETE SLAB IS AT LEAST 10" AND THAT 6" ANCHOR EMBEDMENT CAN BE PROVIDED.

POST INSTALLED SIGN POST SCALE N.T.S. **10**

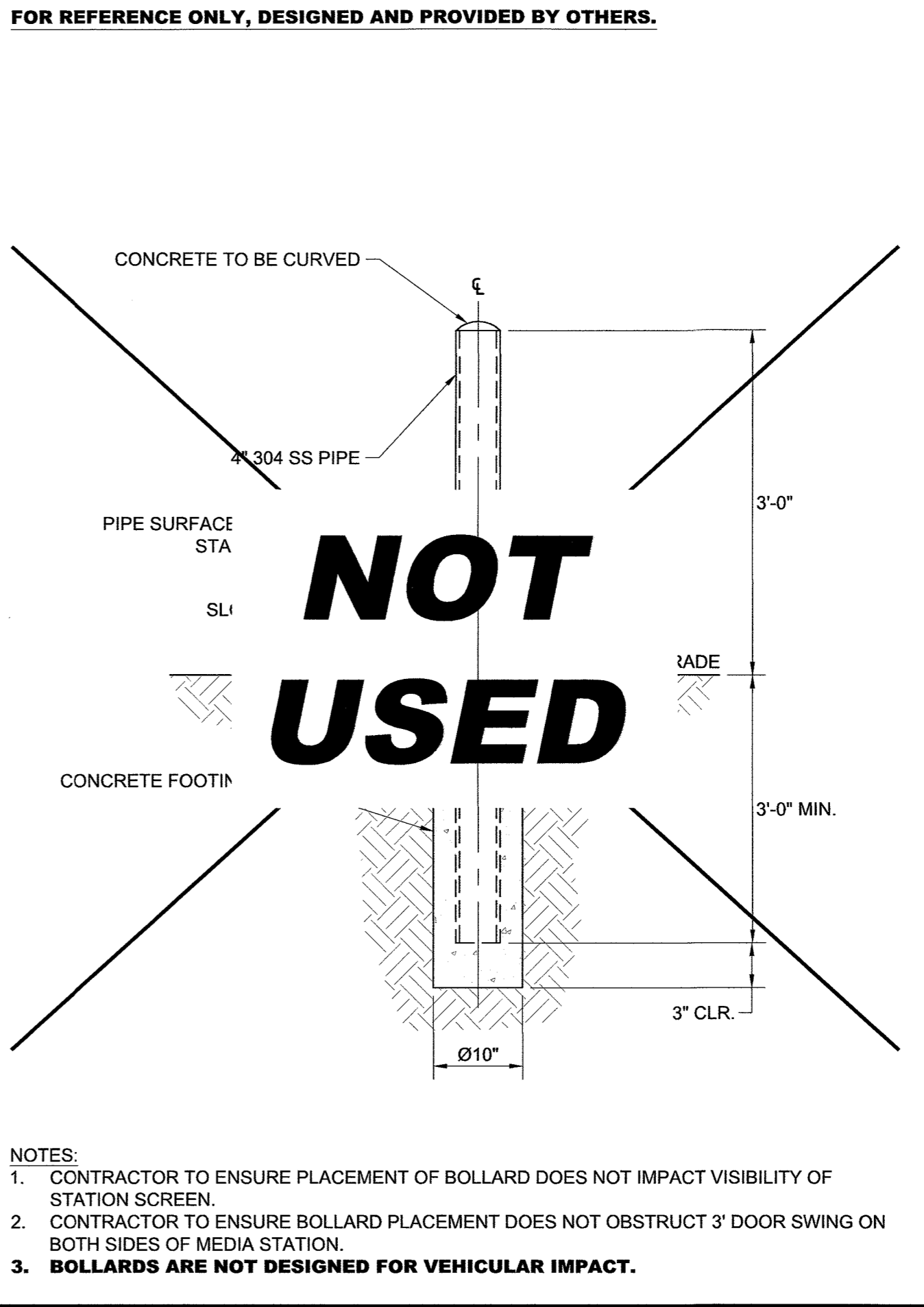


4" DETERRENT BOL. W/ THREADED BASE SCALE N.T.S. **14**



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 - SIGN AND POST ARE NOT IMPACT RATED UNLESS OTHERWISE NOTED.
 - PRIOR TO DRILLING, CONTRACTOR SHALL VERIFY THICKNESS OF EXISTING CONCRETE SLAB IS AT LEAST 10" AND THAT 6" ANCHOR EMBEDMENT CAN BE PROVIDED.

POST INSTALLED SIGN POST W/BOL. SCALE N.T.S. **11**



4" DETERRENT BOLLARD SCALE N.T.S. **15**

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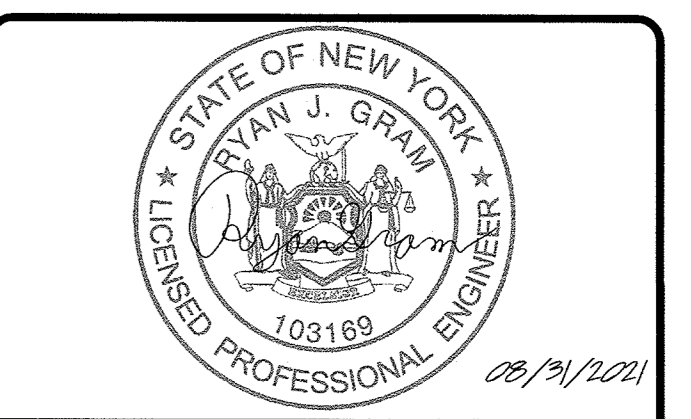
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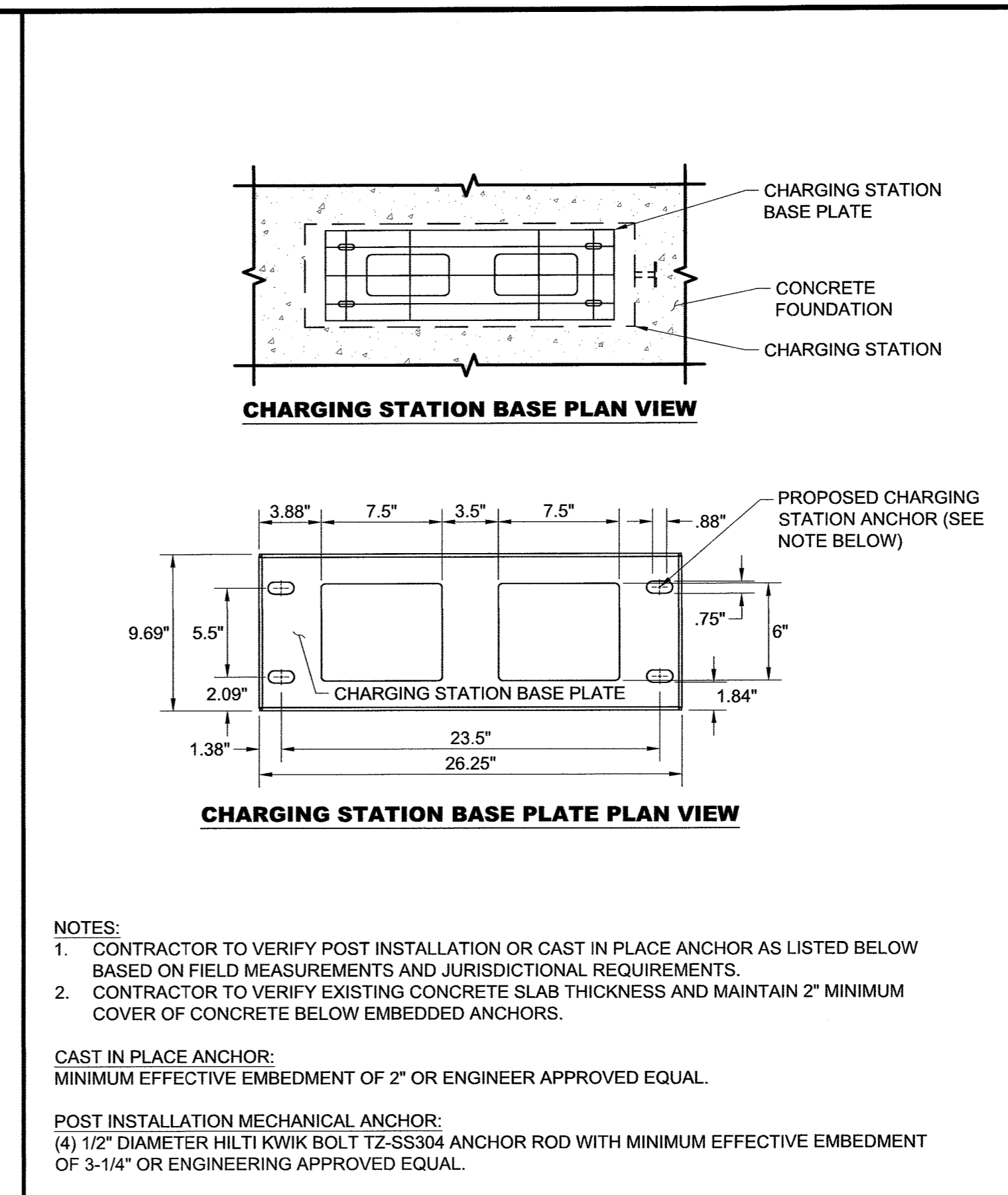
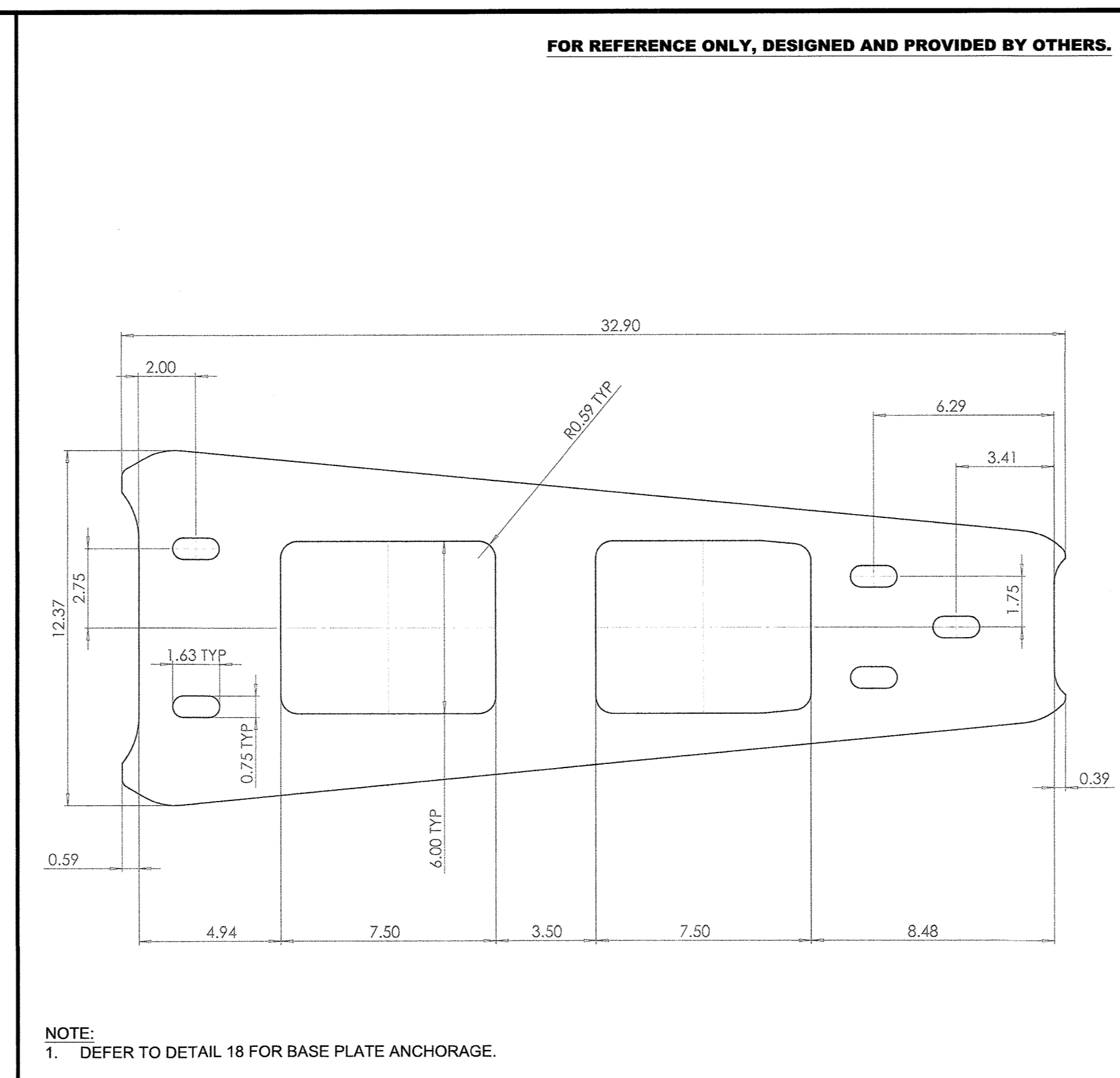
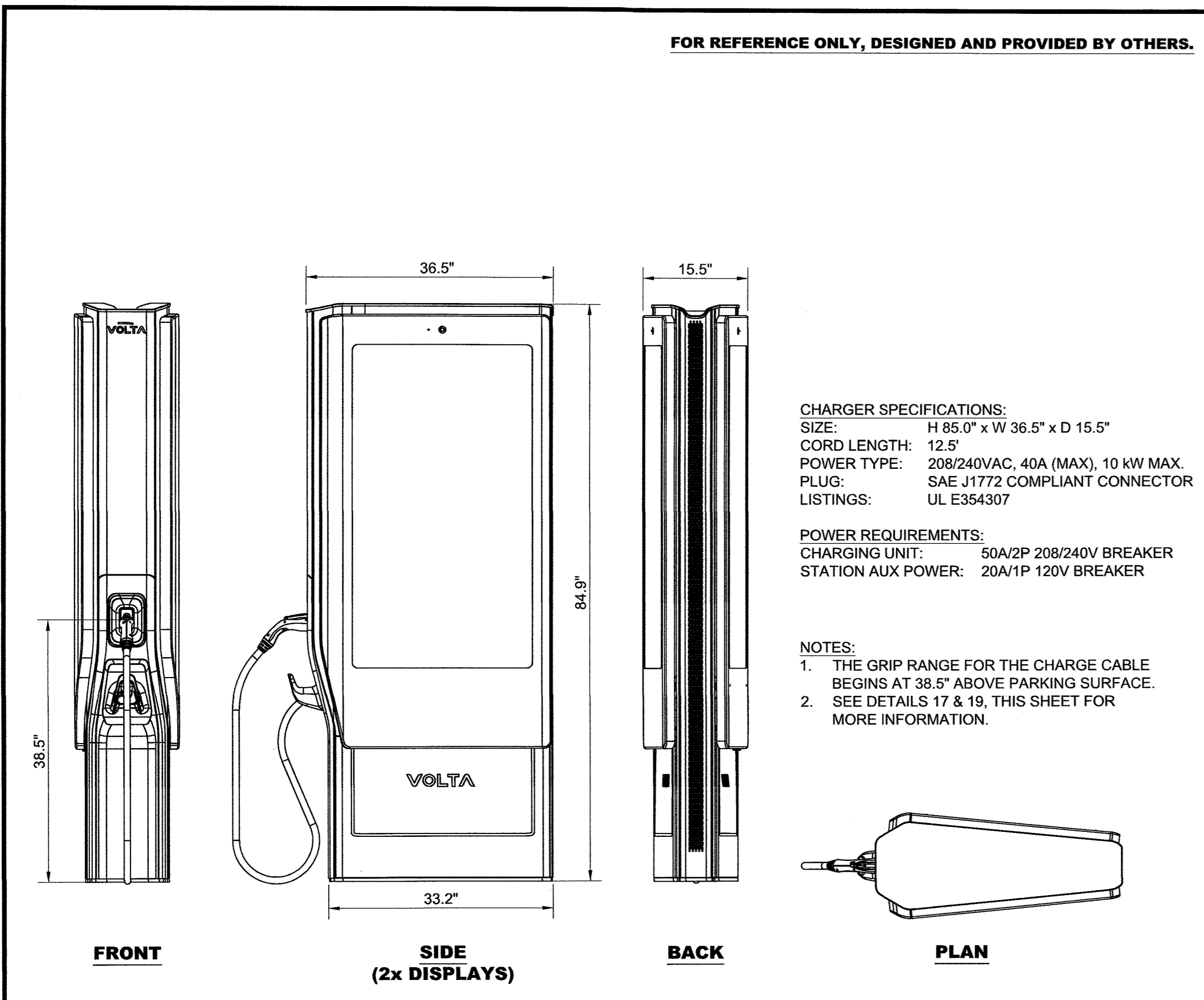
STOP & SHOP #2545-ORANGEBURG COMMONS PHASE 1

**1 STEVENS WAY
ORANGEBURG, NY 10962**

SHEET TITLE
SITE DETAILS

SHEET NUMBER
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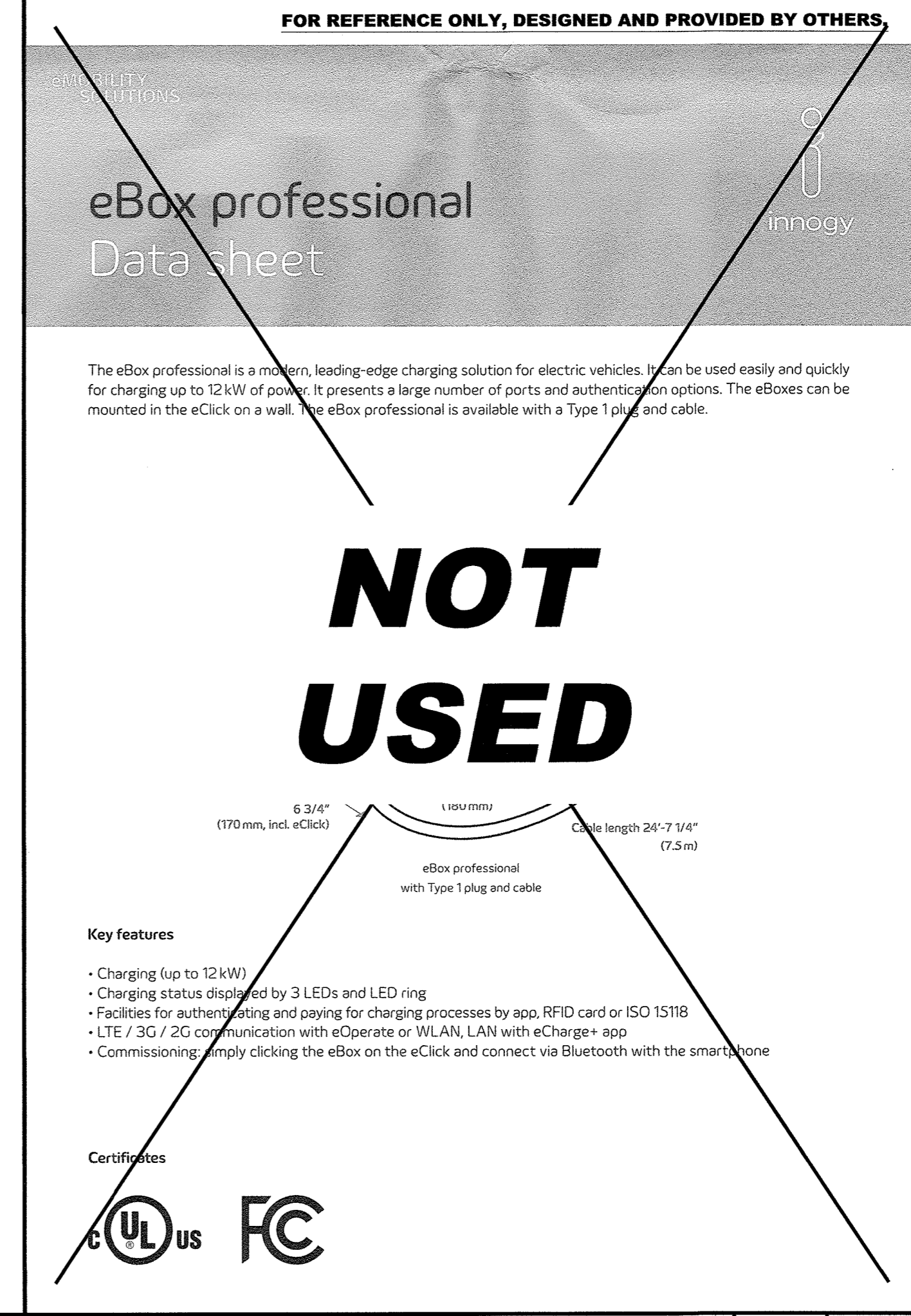
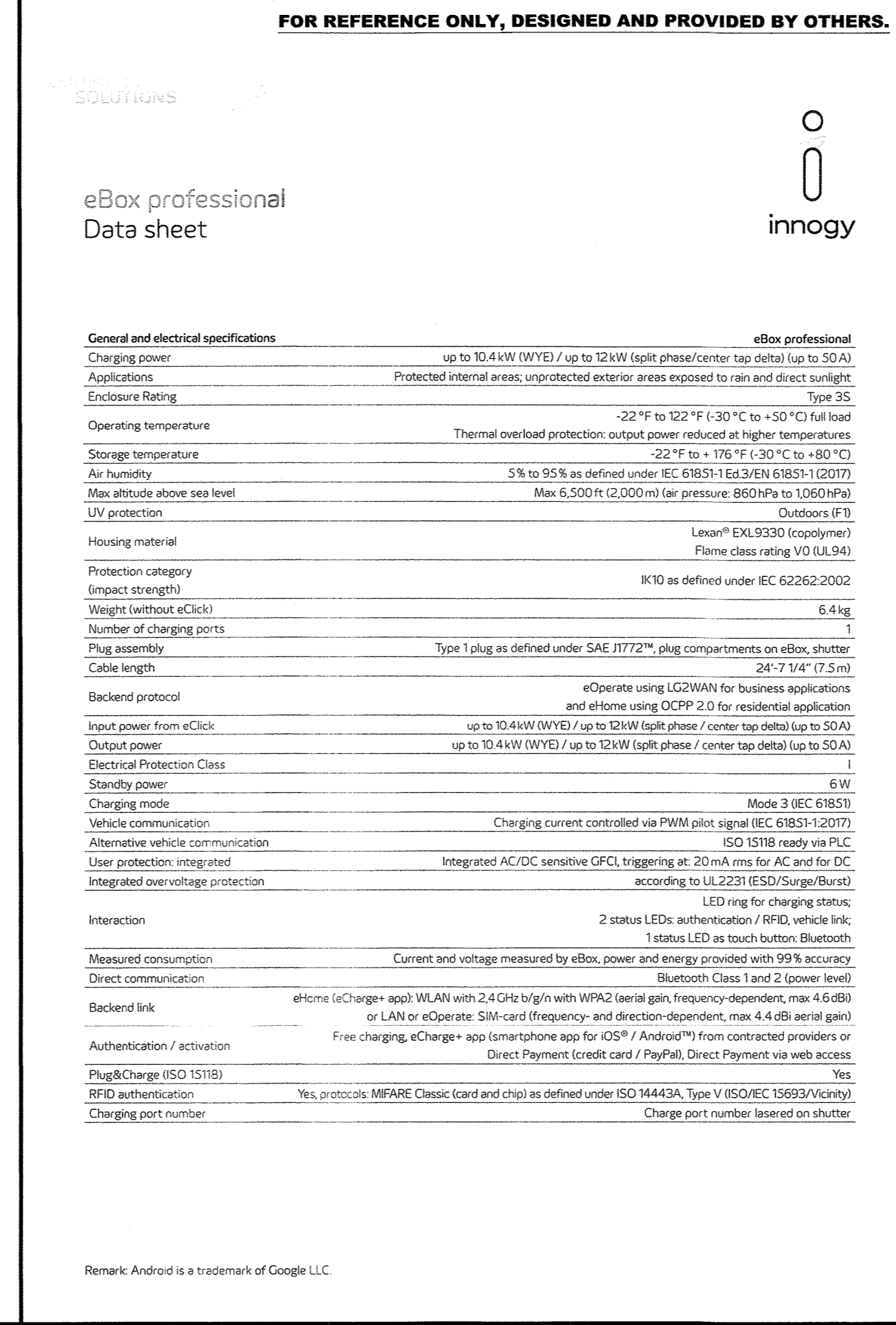
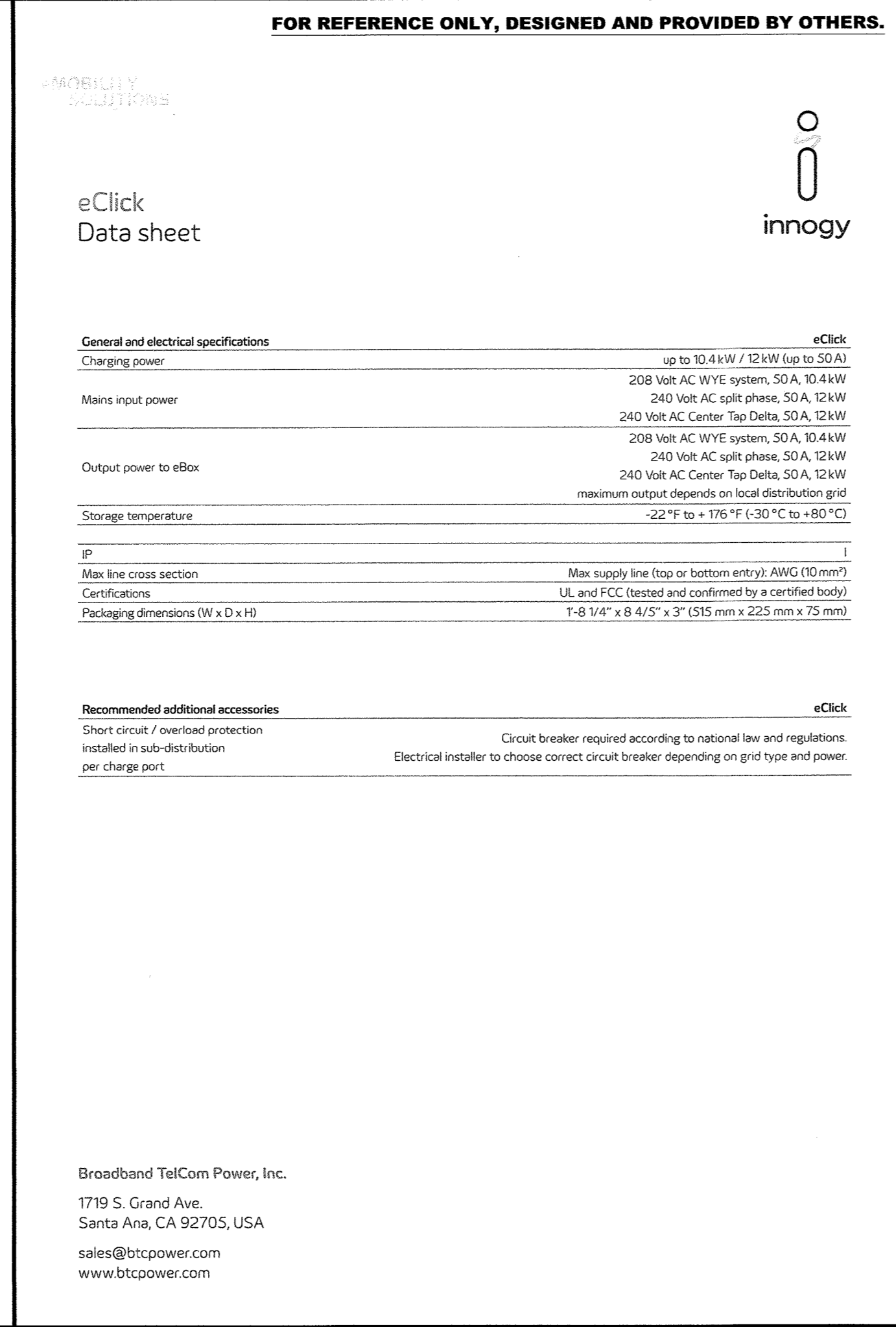
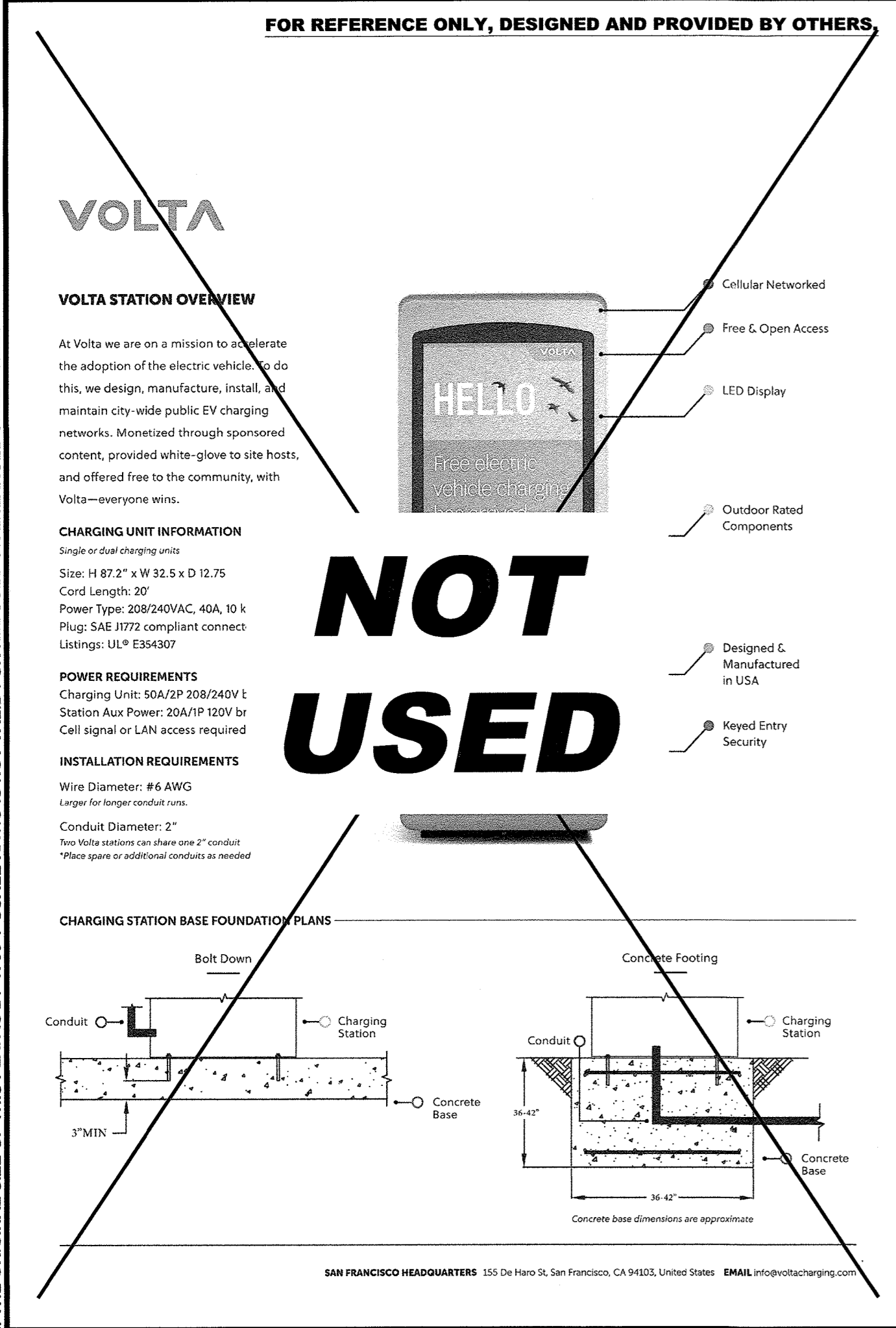
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VOLTA V4 L2 EVCS SCALE N.T.S. **16**

VOLTA V4 BASE PLATE SCALE N.T.S. **17**

VOLTA BASE PLATE ANCHORAGE SCALE N.T.S. **18**



VOLTA V3 EVCS CUT SHEET SCALE N.T.S. **19**

ECLICK DATA CUT SHEET SCALE N.T.S. **20**

EBOX DATA CUT SHEET SCALE N.T.S. **21**

NOT USED SCALE N.T.S. **22**

volta

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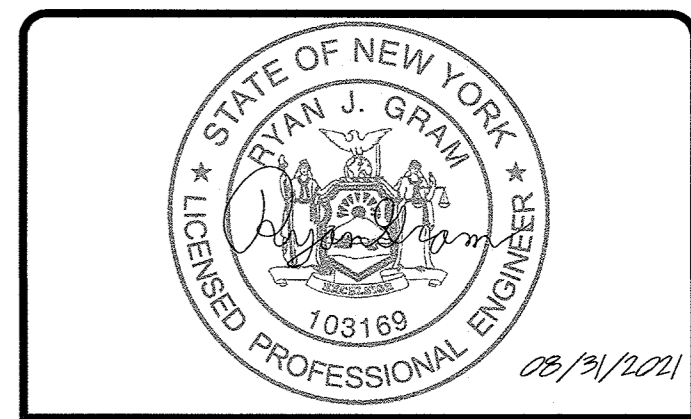
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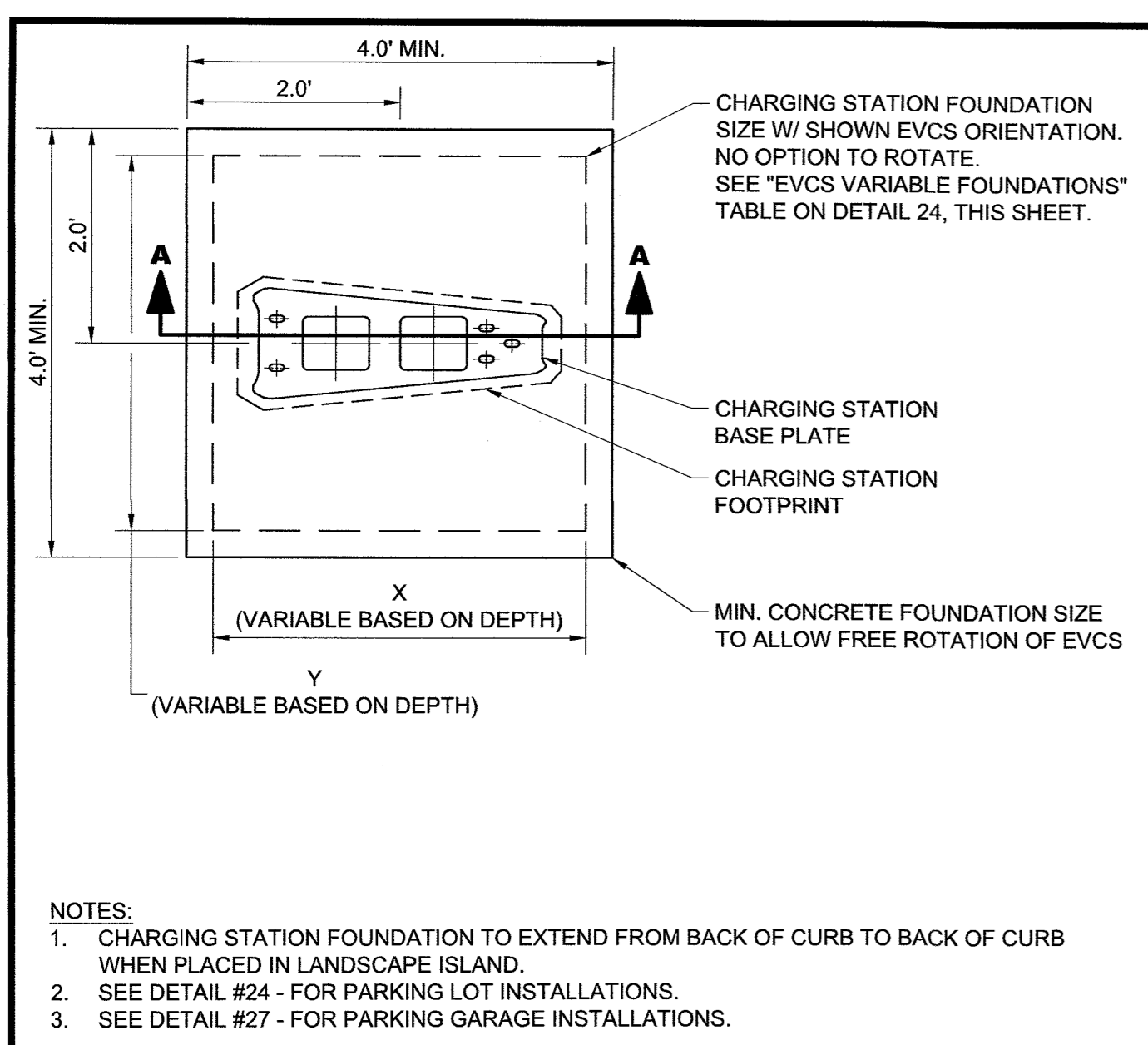
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STOP & SHOP #2545-ORANGEBURG COMMONS PHASE 1

1 STEVENS WAY ORANGEBURG, NY 10962

SHEET TITLE
SITE DETAILS

SHEET NUMBER
C3-02



EVCS VARIABLE FOUNDATIONS

DEPTH (D) (FT)	LENGTH (Y) (FT)	WIDTH (X) (FT)
1.50	3.50	3.50
3.00	3.00	3.50
3.50	2.50	5.00

NOTES:
 * ASSUMES 1.5 KSF SOIL BEARING PRESSURES.
 * ASSUMES 115 MPH WIND SPEEDS PER ASCE 7-10.
 * ASSUMES LENGTH (Y) VARIABLE PERPENDICULAR TO EVCS FRONT / BROAD FACE.

CONTRACTOR TO ENSURE CONCRETE FOUNDATION AND GRADE ARE FLUSH

EXISTING GRADE

EVCS

INSTALL 1/2" COMPRESSIBLE JOINT FILLER WHERE FOUNDATION ABUTS EXISTING PAVEMENT OR CONC. PAD (TYP.)

MIN. 6" CONC. PAD TO BE UTILIZED IN RAISED LANDSCAPE ISLANDS TO CONNECT FND. TO BACK OF EX CURB. CONTRACTOR TO VERIFY PAD IS FLUSH WITH FND. AND CURB

EVCS ANCHORS
 #7 @ 6" O.C. TOP & BOTTOM EACH WAY (TYP.)

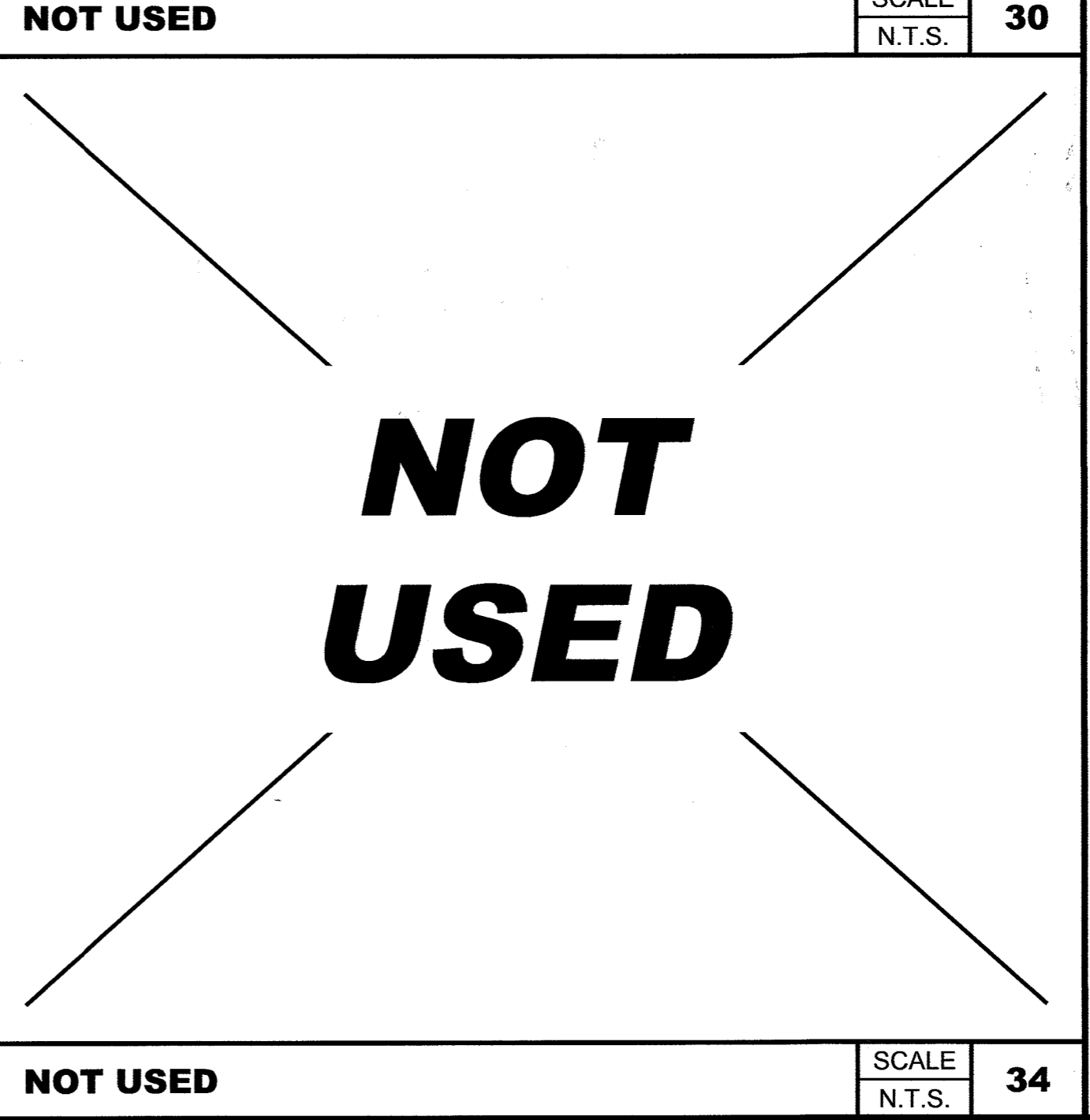
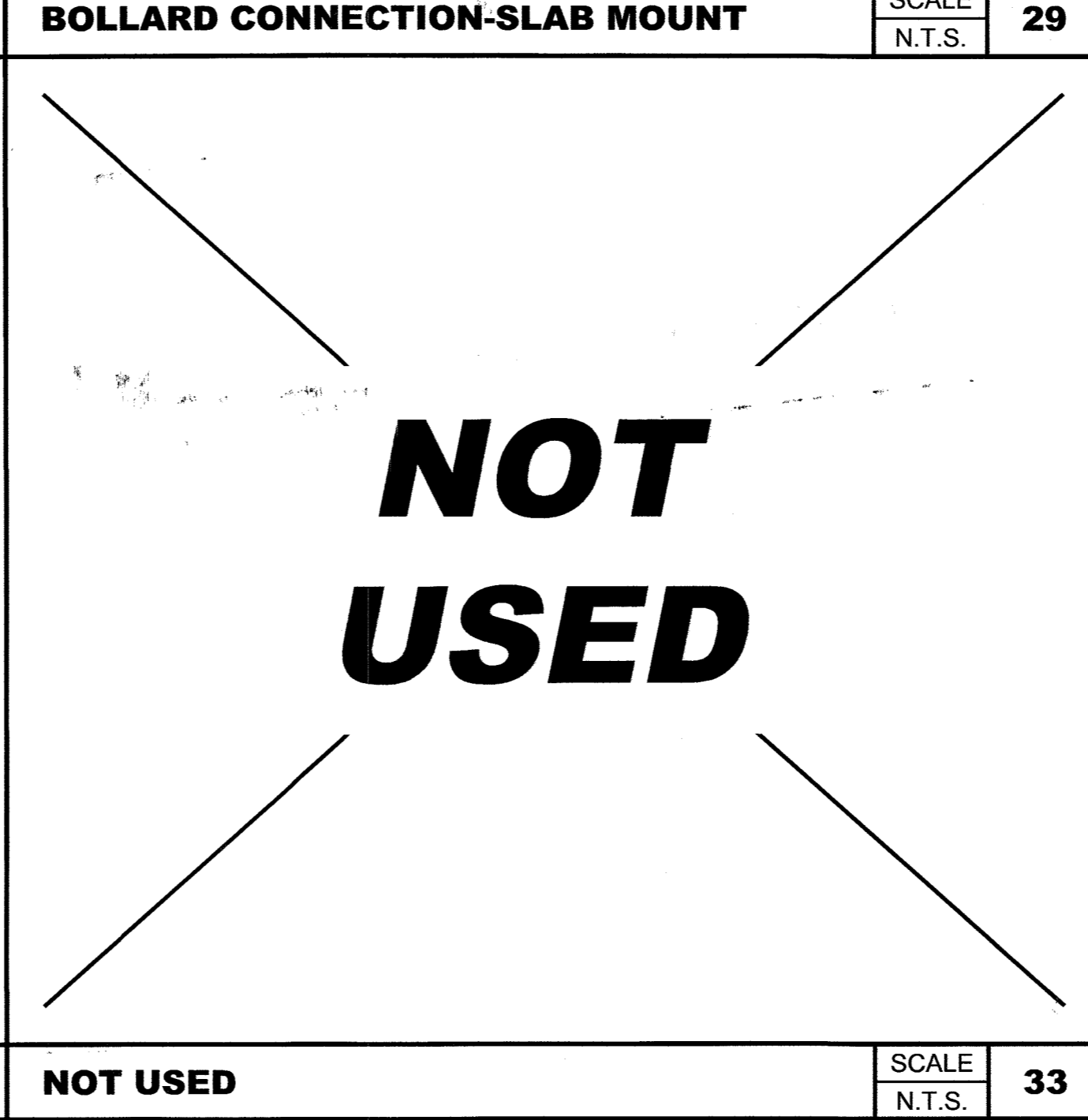
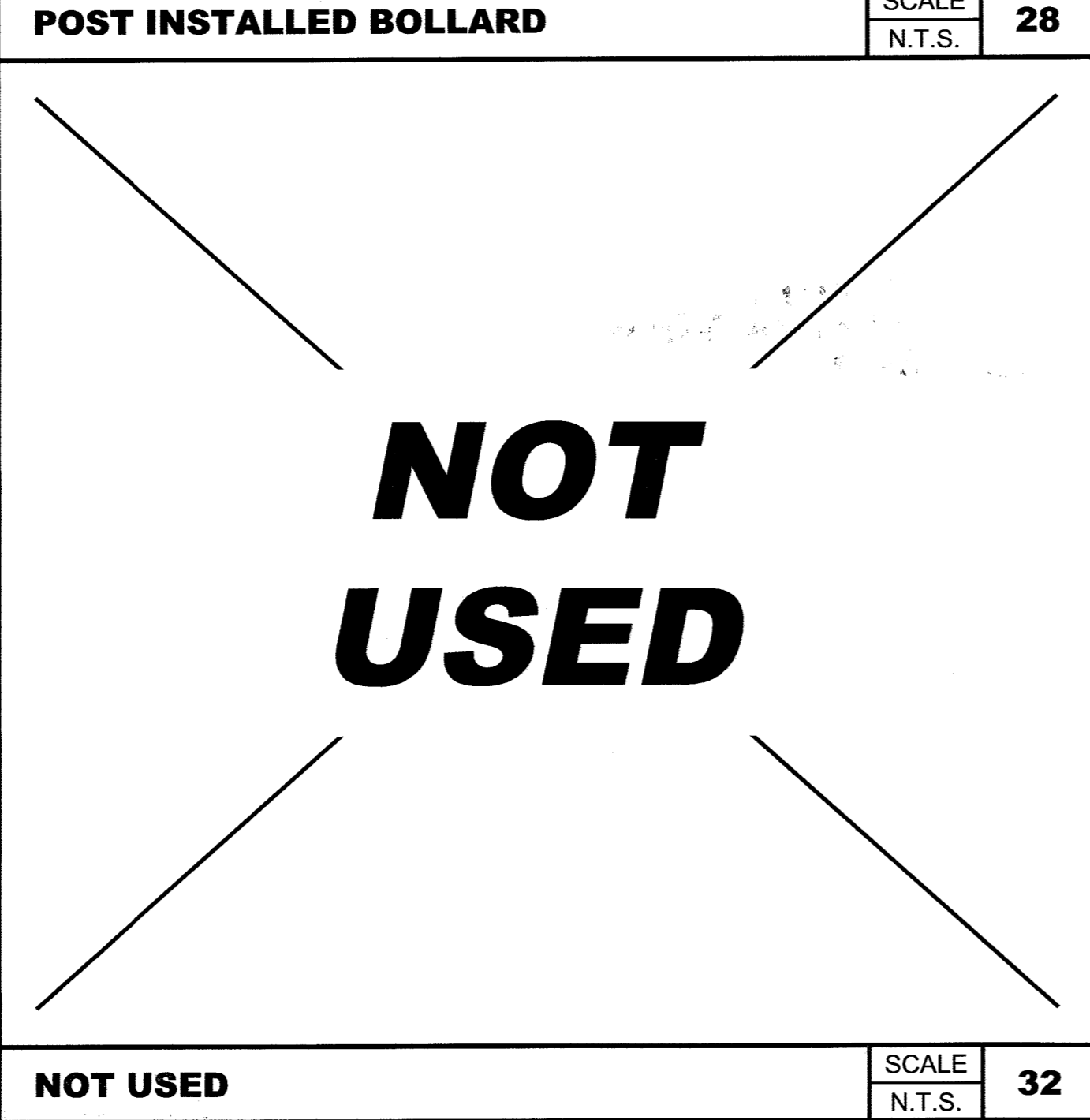
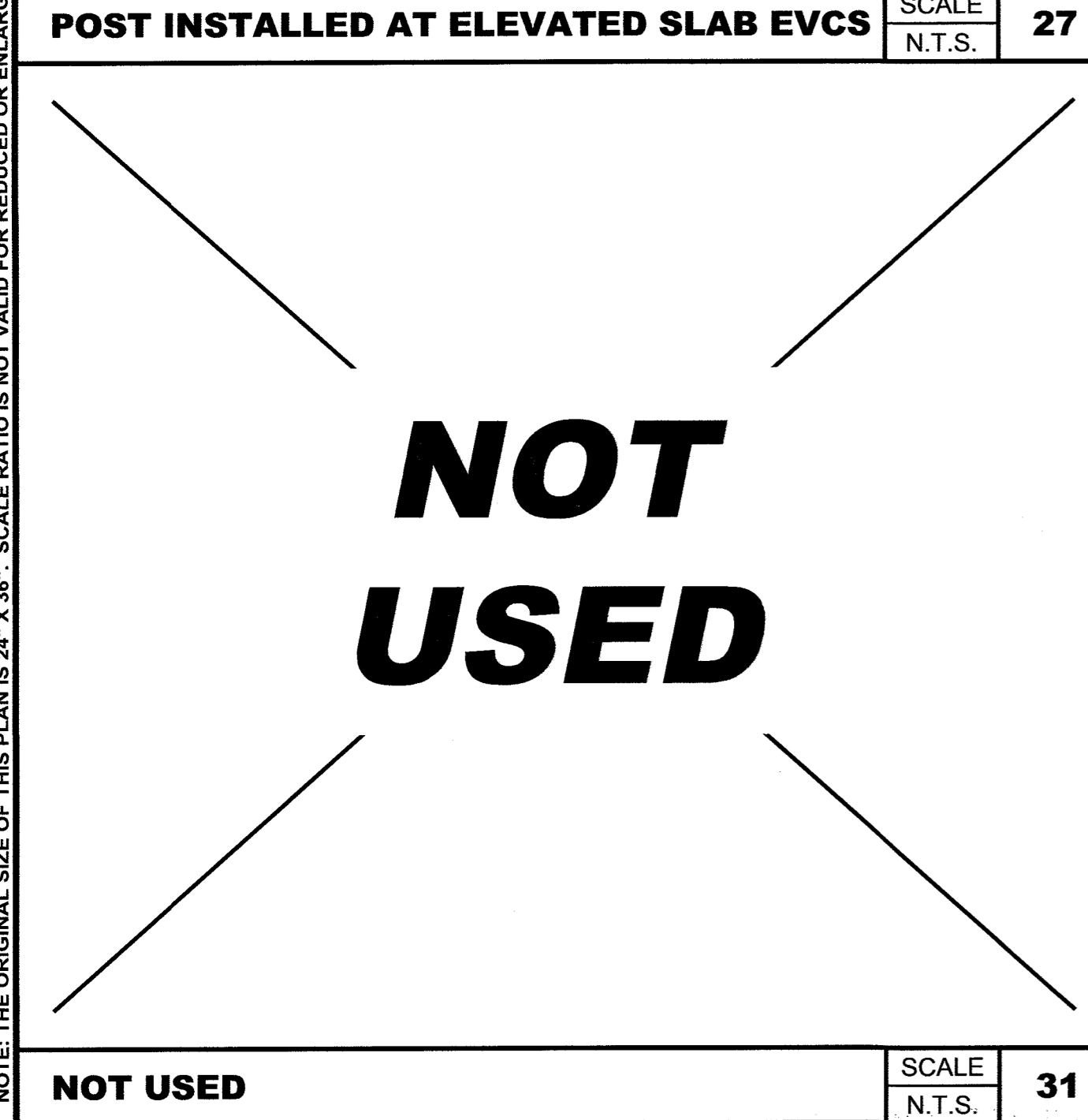
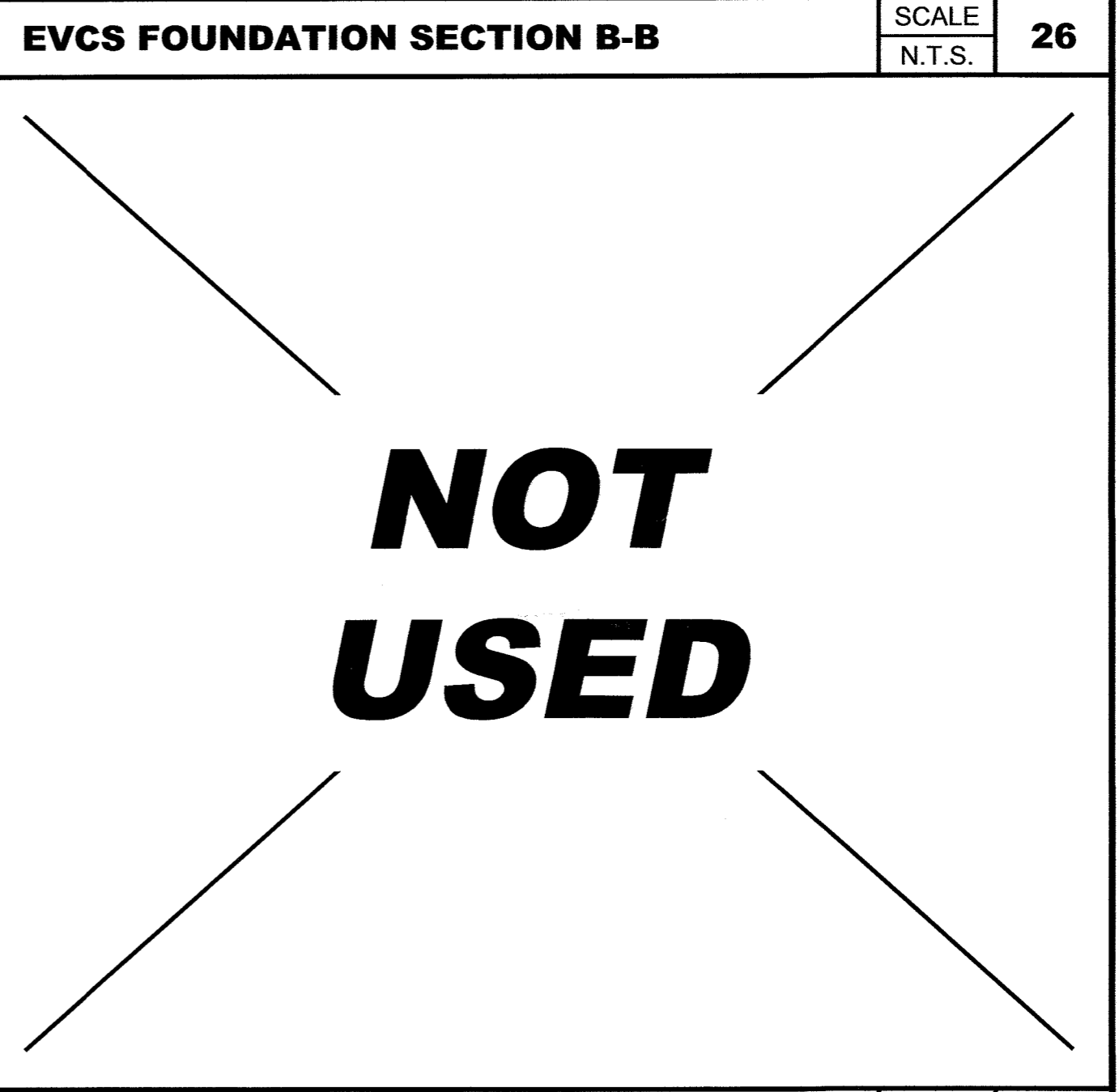
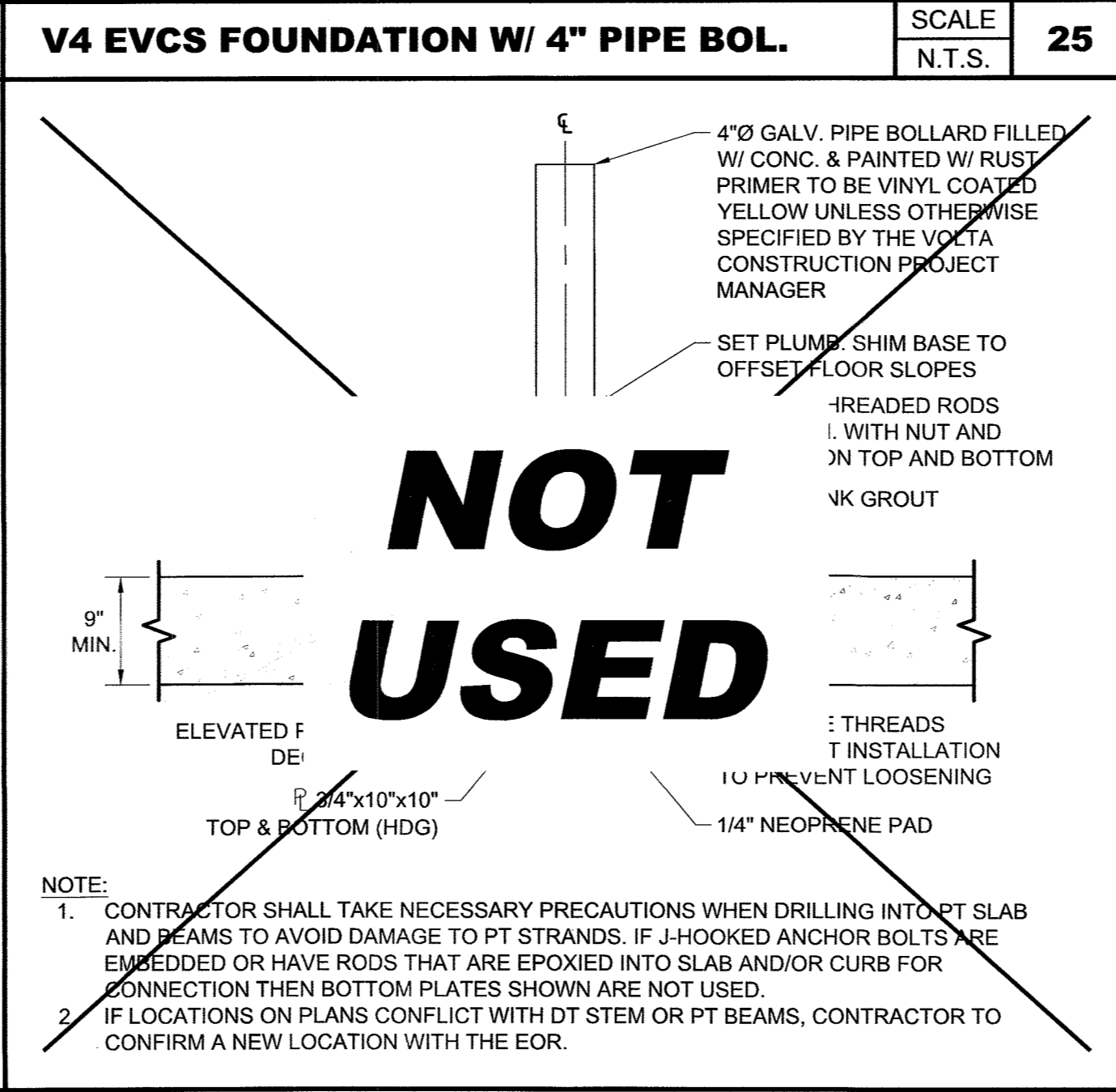
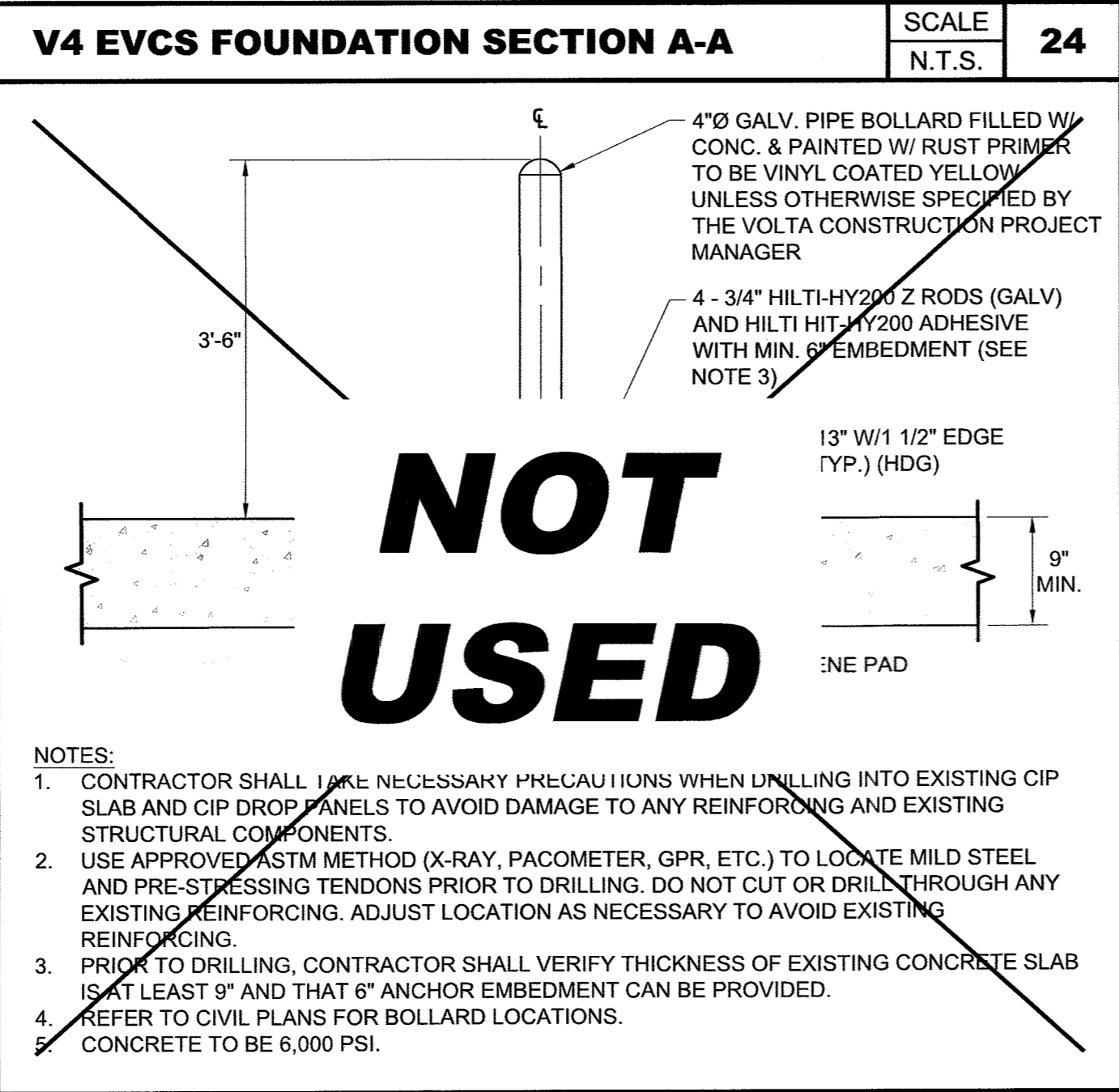
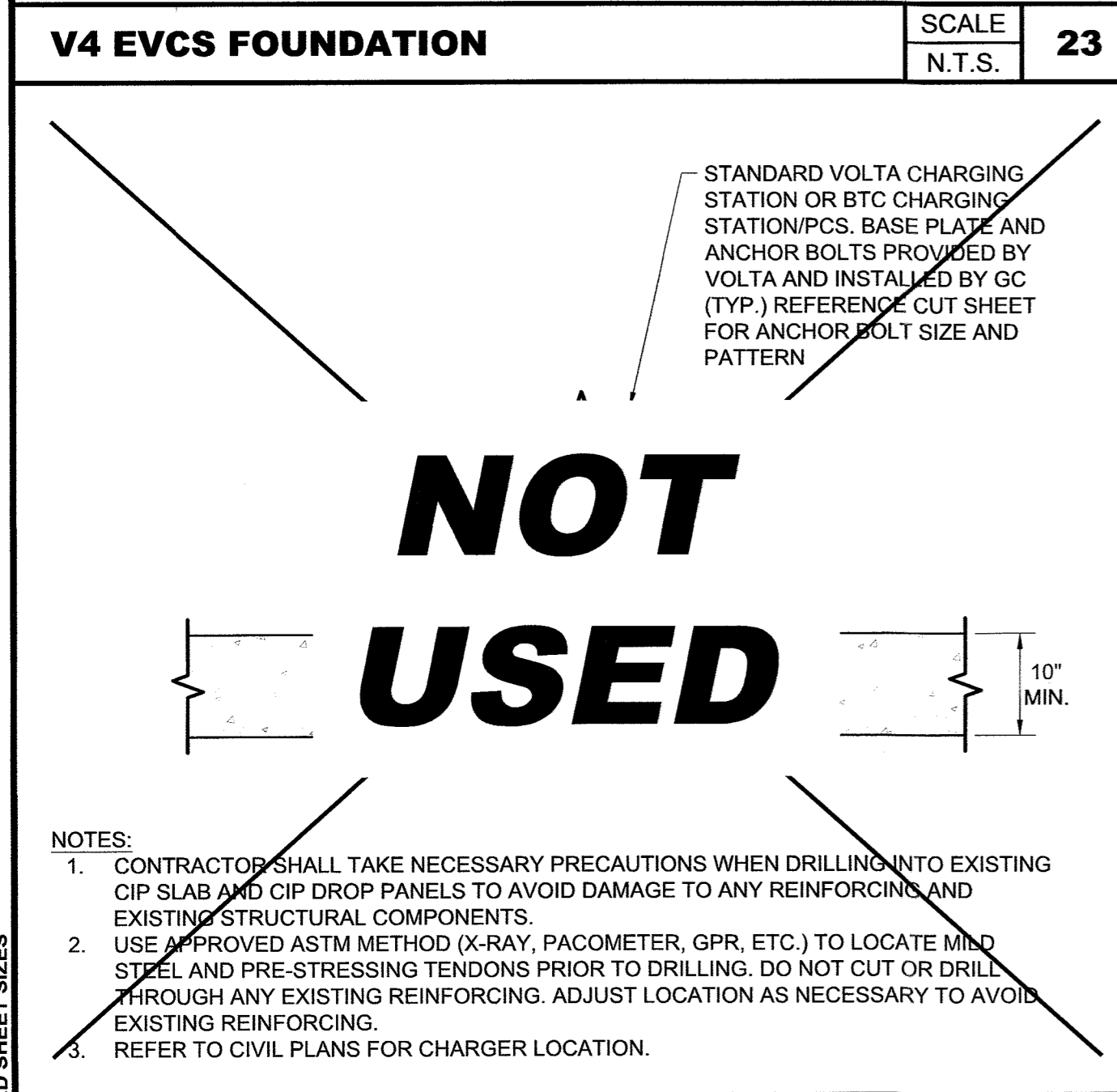
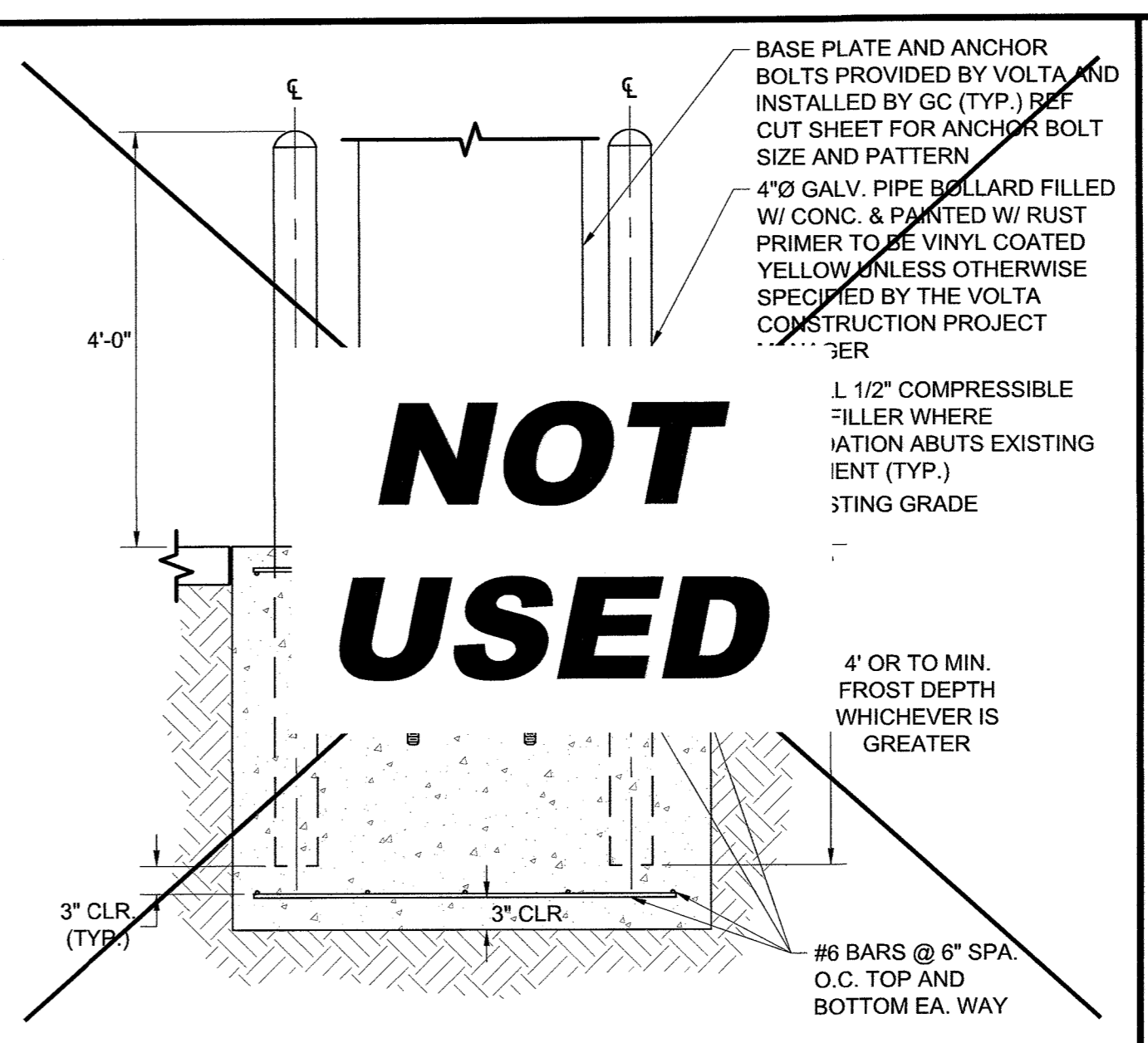
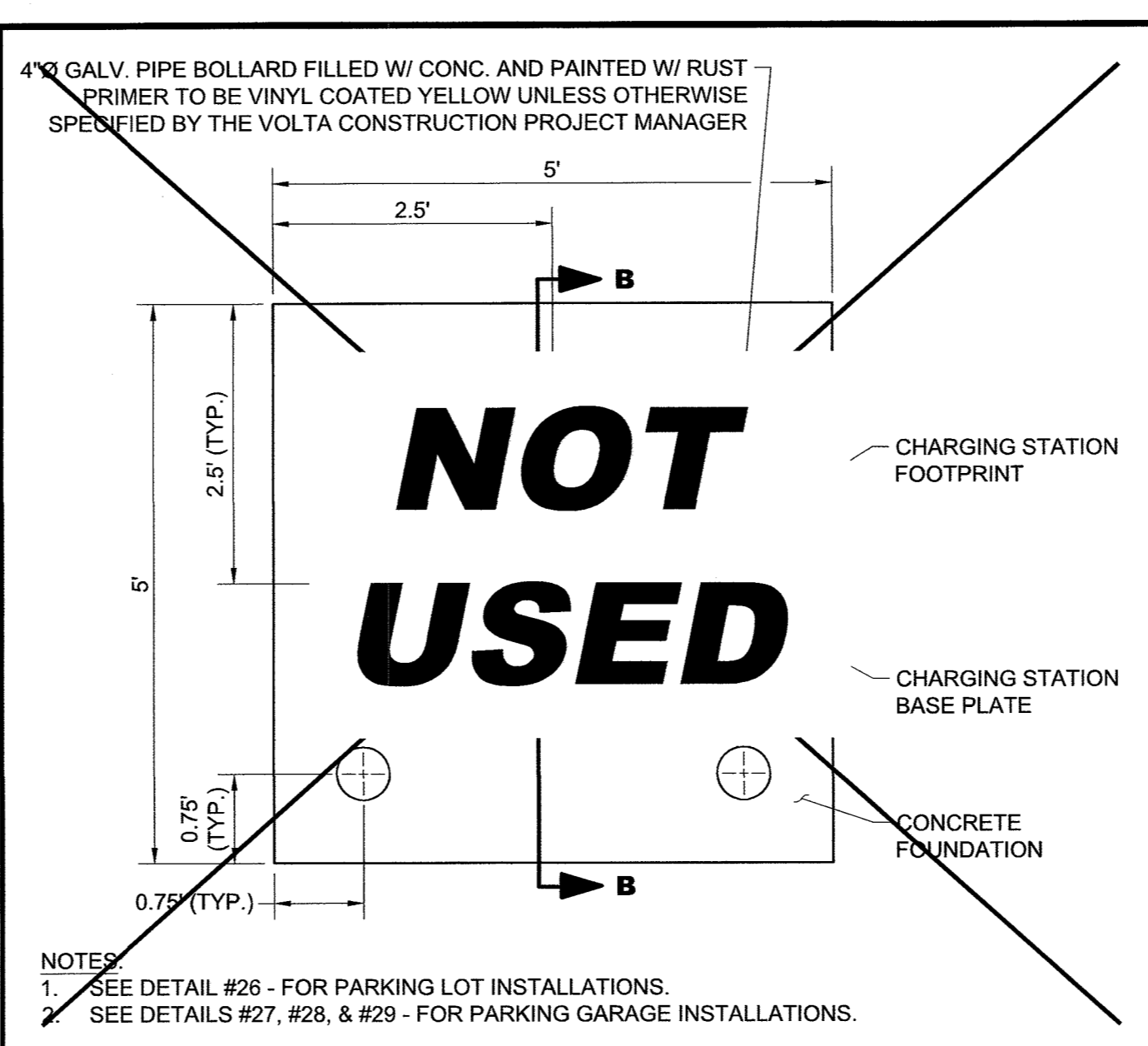
CONCRETE FOUNDATION

36" OR MIN. FROST DEPTH WHICHEVER IS GREATER

2" CLR

3" CLR

NOTE:
 1. EXISTING GRADE AROUND EVCS'S INSTALLED IN ISLANDS CAN BE GRASS OR FILLED WITH REINFORCED CONCRETE AT #4 @ 12" O.C. PROVIDE 1/2" COMPRESSIBLE JOINT FILLER AND POURED SEPARATELY.
 2. KHA IS NOT RESPONSIBLE FOR THE DESIGN OF EQUIPMENT OR ANCHORAGE TO THE FOUNDATION. MANUFACTURER SHALL SUBMIT LOADS TO ENGINEER OF RECORD FOR RECORD KEEPING ONLY.



volta

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 WWW.KIMLEY-HORN.COM

REV	DATE	DESCRIPTION	BY
1	03/02/2021	CD90s	KRD
2	04/02/2021	CD100s	KRD
3	08/27/2021	ACABOR Review	JG

ISSUE DATE
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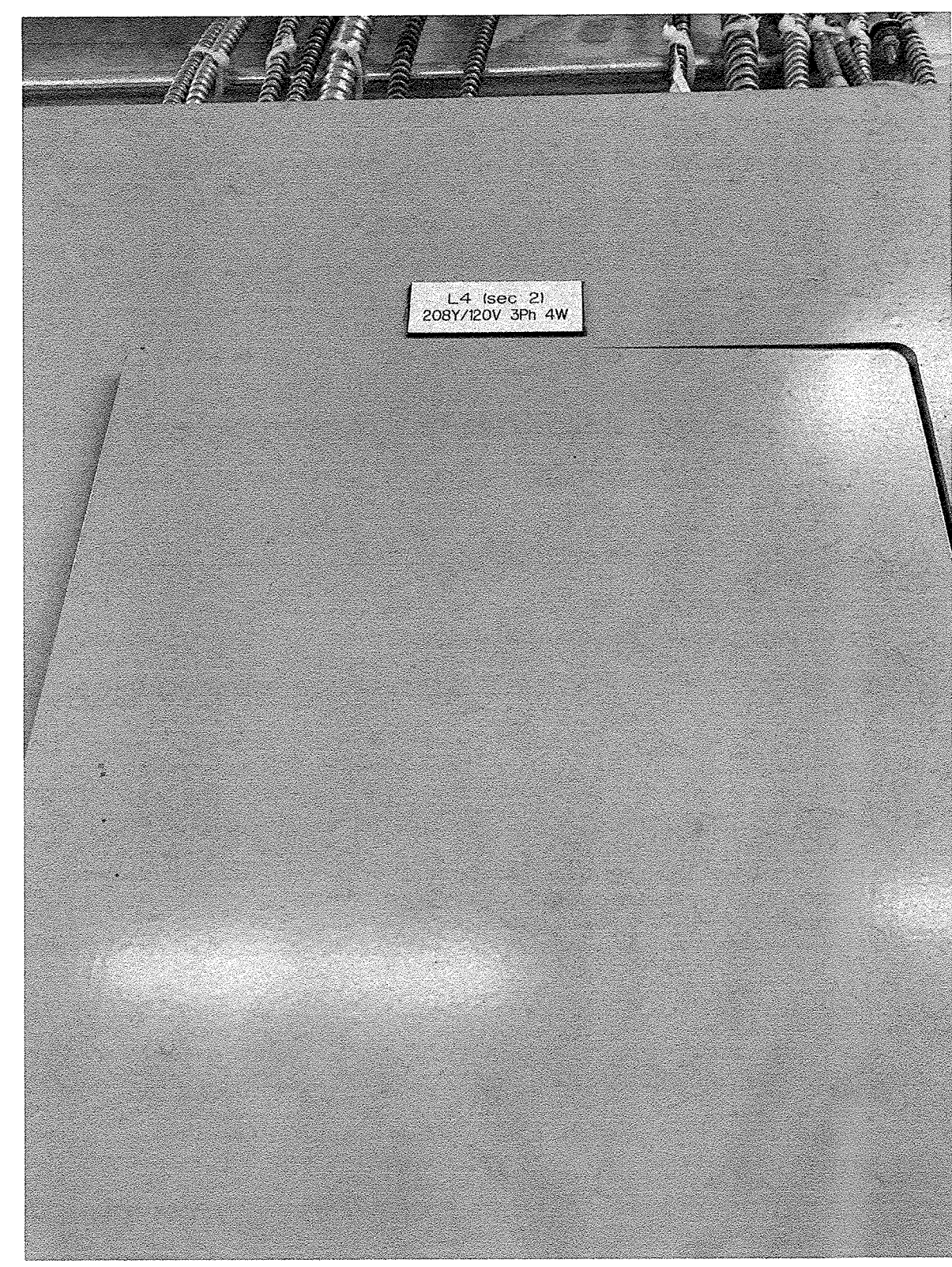
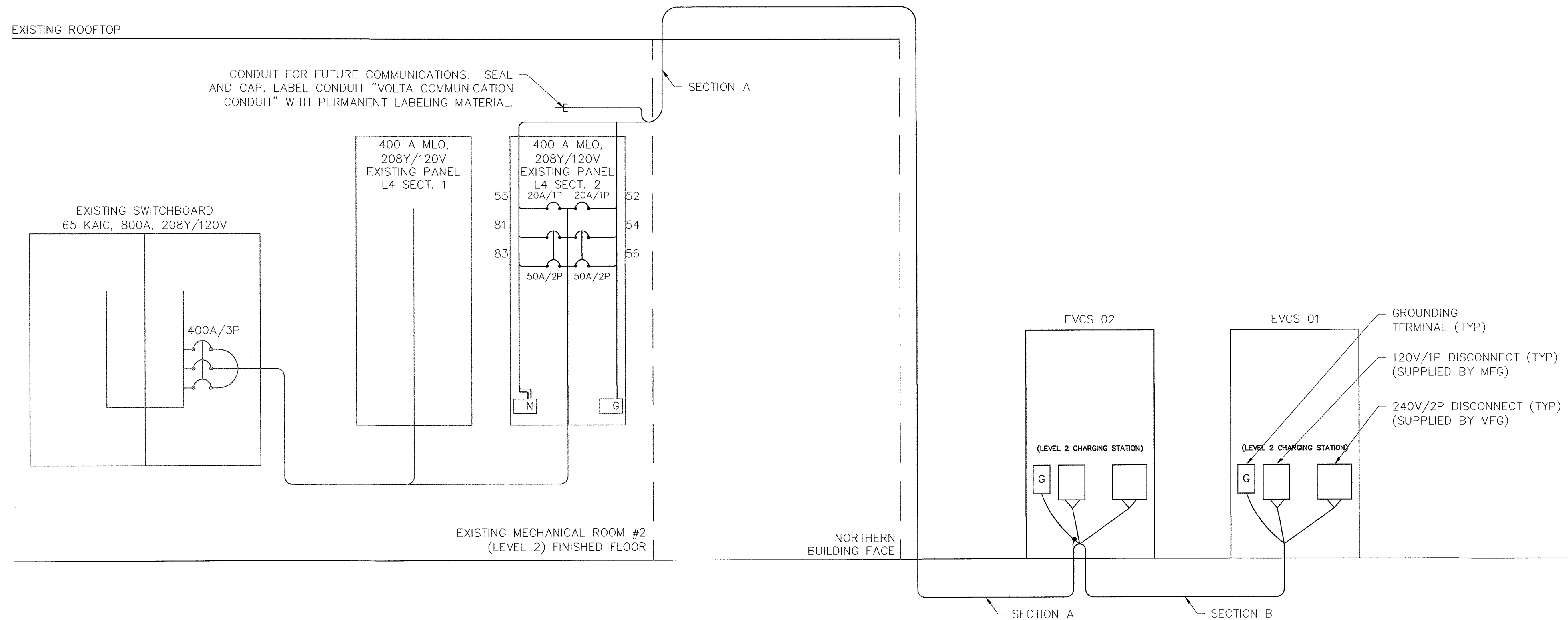
STOP & SHOP #2545-ORANGEBURG COMMONS PHASE 1

1 STEVENS WAY
 ORANGEBURG, NY 10962

SHEET TITLE
SITE DETAILS

SHEET NUMBER
C3-03

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES.



- NOTES:**
- THE eCLICK IS MANUALLY SET TO 40A MAX. OUTPUT TO THE eBOX CHARGING STATION AT THE BTC FACTORY. THE CONTRACTOR SHALL FIELD CONFIRM THIS SETTING PRIOR TO CONNECTING THE POWER CIRCUIT TO THE CHARGING STATION.
 - 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.
 - ANY PAVEMENT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRE-CONSTRUCTION CONDITIONS OR BETTER.
 - CONTRACTOR SHALL USE THWN COPPER CONDUCTORS.
 - CONTRACTOR SHALL USE EMT INSIDE AND OUTSIDE ABOVE GRADE WHERE NOT SUBJECT TO DAMAGE. CONTRACTOR SHALL RGS INSIDE AND OUTSIDE ABOVE GRADE WHERE SUBJECT TO DAMAGE. CONTRACTOR SHALL USE PVC SCHEDULE 80 BELOW GRADE.
 - SEE SHEETS C1-00 AND C2-00 FOR CONDUIT STUB UP LOCATIONS.
 - CONTRACTOR TO LOCATE JUNCTION BOX, LINE BOX (LB), OR APPROVED ALTERNATIVE FOR SITE SPECIFIC RUN LENGTHS AND BENDS.

Panel Schedule															
Existing Panel L4 Sect 2 Location: Existing Electrical Room Volts: 208Y/120V Phase: 3 Wire: 4 Hertz: 60															
400A MLO Main AIC: N/A Branch AIC: (See Note 3) ENCL (NEMA): 1 MTG: Surface															
400 Amp Frame, Ground Bar, Locking Cover, Panel Card															
Description of Load Served	Breaker		Wire	A/Phase			CKT No.	CKT No.	A/Phase			Wire	Breaker		Description of Load Served
	Amp	Pole		A	B	C			A	B	C		Amp	Pole	
EXISTING MEAT/SEAFD MENU LTG	20	1	EXIST	3.2			43	44	2.5			EXIST	20	1	EXISTING PROD MISTING SYS
EXISTING BAKERY MENU LTG	20	1	EXIST		3.2		45	46		8.3		EXIST	20	1	EXISTING GONDOLARECEPT
EXISTING DELI MENU LTG	20	1	EXIST			3.2	47	48			6.7	EXIST	20	1	EXISTING GONDOLARECEPT
EXISTING GRABNGO MENU LTG	20	1	EXIST	3.2			49	50	5.0			EXIST	20	1	EXISTING GONDOLARECEPT
EXISTING PILASTER LTS	20	1	EXIST		1.1		51	52		5.0		See Note 5	20	1	CHARGING STATION EVCS 02
SPARE	20	1					53	54			40.0	See Note 5	50	2	CHARGING STATION EVCS 02
CHARGING STATION EVCS 01	20	1	See Note 5	5.0			55	56	40.0			See Note 5	50	2	CHARGING STATION EVCS 02
EXISTING EF-12	15	1	EXIST		4.4		57	58					20	1	SPARE
EXISTING PROD SCALE RECEP(S) (OFF)	15	1					59	60		10.0		EXIST	20	1	EXISTING SELF CONTAINED FREEZER
EXISTING EF-05	15	1	EXIST	5.8			61	62	3.3			EXIST	20	1	EXISTING FROZEN FOOD RECEP(S)
EXISTING CU-5	20	1	EXIST		7.9		63	64		6.7		EXIST	20	1	EXISTING PET TREAT FRZR RECEP(S)
EXISTING HP TOILED EMERG CALL	20	1	EXIST	3.3			65	66		6.7		EXIST	20	1	EXISTING COFFEE GRNDERS/SPARE
							67	68	6.7			EXIST	20	1	EXISTING COFFEE GRNDERS/SPARE
EXISTING MENS HAND DRYER	20	2	EXIST		13.9		69	70					20	1	SPARE
EXISTING LADIES HAND DRYER	20	2	EXIST		13.9	13.9	71	72					20	1	SPARE
							73	74					20	1	SPARE
							75	76	10.0			EXIST	20	1	EXISTING GAS WATER HEATER
EXISTING STORE LEARNING RECEP(S)	20	1	EXIST		4.2		77	78					20	1	SPARE
WASH AREA RECEP(S)	20	1	EXIST	1.5			79	80					20	1	SPARE
CHARGING STATION EVCS 01	50	2	See Note 5	40.0			81	82		5.3		EXIST	20	1	EXISTING WATER CIRC. PUMP(S)
							83	84		10.0		EXIST	20	1	EXISTING GAS WATER HEATER
Total A/Phase				35.9	84.4	69.2				57.5	35.3	73.4	Total A/Phase		

Notes:

- Connected KVA: 108.5
- Demand KVA: 135.6
- Contractor shall match existing AIC Rating.
- Where load is labeled "EX" the load is unknown.
- See Voltage Drop Table for conductor sizing.

L2 Conductor Voltage Drop Table Per Charging Station											
<150FT	150FT-175FT	175FT-240FT	240FT-275FT	275FT-305FT	305FT-385FT	385FT-440FT	440FT-485FT	485FT-610FT	610FT-700FT	700FT-770FT	
(2) #6 AWG + (2) #12 AWG + (1) #10 AWG GND	(2) #4 AWG + (2) #12 AWG + (1) #6 AWG GND	(2) #4 AWG + (2) #10 AWG + (1) #4 AWG GND	(2) #3 AWG + (2) #10 AWG + (1) #6 AWG GND	(2) #3 AWG + (2) #10 AWG + (1) #6 AWG GND	(2) #2 AWG + (2) #8 AWG + (1) #4 AWG GND	(2) #1 AWG + (2) #8 AWG + (1) #4 AWG GND	(2) #1 AWG + (2) #6 AWG + (1) #4 AWG GND	(2) #1/0 AWG + (2) #6 AWG + (1) #3 AWG GND	(2) #2/0 AWG + (2) #6 AWG + (1) #2 AWG GND	(2) #2/0 AWG + (2) #4 AWG + (1) #2 AWG GND	

VOLTAGE DROP TABLE NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR DE-RATING CONDUCTORS WHEN 4 OR MORE CURRENT CARRYING CONDUCTORS ARE CARRIED IN THE SAME CONDUIT PER THE NEC.
- THE DISTANCES IN THIS TABLE ARE TOTAL DISTANCES, NOT HORIZONTAL DISTANCES. INCLUDE VERTICAL RUNS AND JUNCTION BOX COIL LENGTH IN THE TOTAL CONDUCTOR DISTANCE.
- WHEN MORE THAN ONE CHARGING STATION CIRCUIT CONDUCTORS ARE IN A CONDUIT, USE ONLY ONE SHARED EQUIPMENT GROUND CONDUCTOR.
- WHEN THERE IS A REMOTE HOLSTER, INSTALL (2) #6 AWG + (1) #8 AWG GND + (1) #14 AWG COMM IN THE CONDUIT FROM EVCS TO REMOTE HOLSTER.
- WHEN INSTALLING #1/0 AWG OR LARGER CONDUCTORS FROM THE POWER SOURCE TO EVCS, INCLUDE MULTICONDUCTOR TAPS IN THE CLOSEST JUNCTION BOX PRIOR TO ENTERING THE EVCS OR IN THE EVCS ITSELF SO THAT #6 AWG CONDUCTORS CAN BE TERMINATED IN THE EVCS.

Conduit Schedule			
Conduit Section	Conduit #	Conduit Size	Installation Method
A	1	2"	(See Voltage Drop Table)
	2	3/4" Min	Interior Mount / Surface Mount / Roof Mount / Directional Bore
B	1	2"	(See Voltage Drop Table)
	2	3/4" Min	Future Communications w/ Pull String

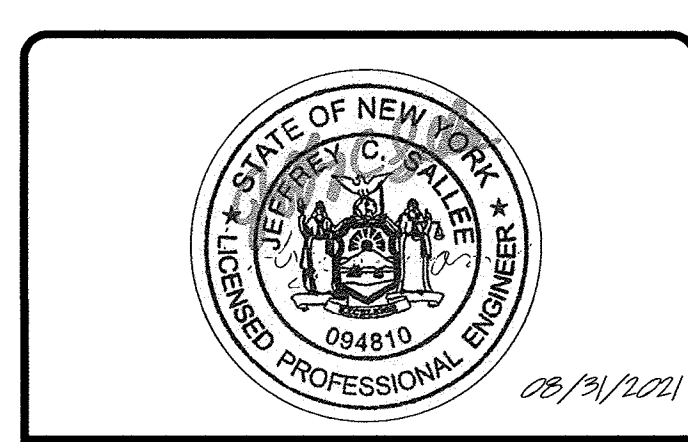
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STOP & SHOP #2545-ORANGEBURG COMMONS PHASE 1

1 STEVENS WAY ORANGEBURG, NY 10962

SHEET TITLE
ELECTRICAL ONE LINE DIAGRAM & PANEL SCHEDULE

SHEET NUMBER
E1-00

NOTE: THE ORIGINAL SIZE OF THIS PLAN IS 24" X 36". SCALE RATIO IS NOT VALID FOR REDUCED OR ENLARGED SHEET SIZES

NOTES:

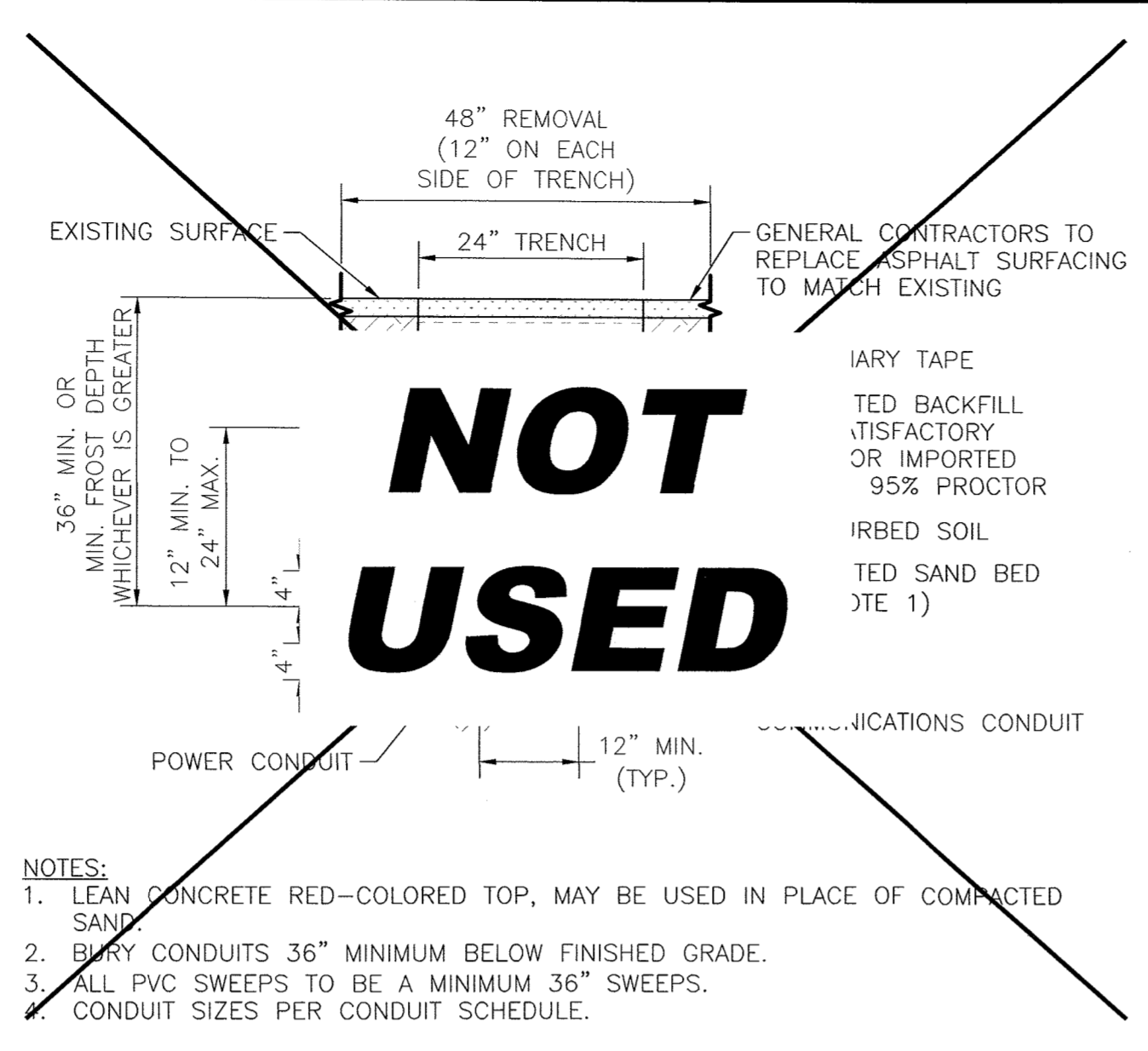
1. A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART110.3.
2. ALL EXTERIOR EQUIPMENT SHALL BE RAIN TIGHT AND APPROVED FOR USE IN WET CONDITIONS.
3. ALL CONDUCTORS SHALL BE PROVIDED WITH STRAIN RELIEF UPON ENTRY INTO ENCLOSURES.
4. EACH UNGROUNDED CONDUCTOR SHALL BE IDENTIFIED BY PHASE AND SYSTEM PER ART 210.5.
5. ALL METALLIC COMPONENTS SHALL BE GROUNDED VIA EQUIPMENT GROUNDING CONDUCTORS.
6. CHARGING UNITS ARE EQUIPPED WITH AN INTEGRATED CONTRACTOR TO PREVENT BACK FEEDING OF POWER TO THE SOURCE.
7. CONTRACTOR TO FIELD VERIFY MAIN FEED BREAKER SUPPORTING DISTRIBUTION PANEL IS APPROPRIATELY SIZED TO SUPPORT THE LOAD. CONTRACTOR SHALL CONTACT THE ENGINEERING TEAM IMMEDIATELY IF BREAKER IS FOUND TO BE INSUFFICIENT.
8. CONTRACTOR SHALL INSPECT ALL PRE-WIRED CONNECTIONS WITHIN EACH CHARGING STATION TO ENSURE THE CONNECTIONS ARE SOLID. INFORM VOLTA OR THE ENGINEER IF ANY CONNECTIONS ARE LOOSE OR DAMAGED.

ABBREVIATIONS

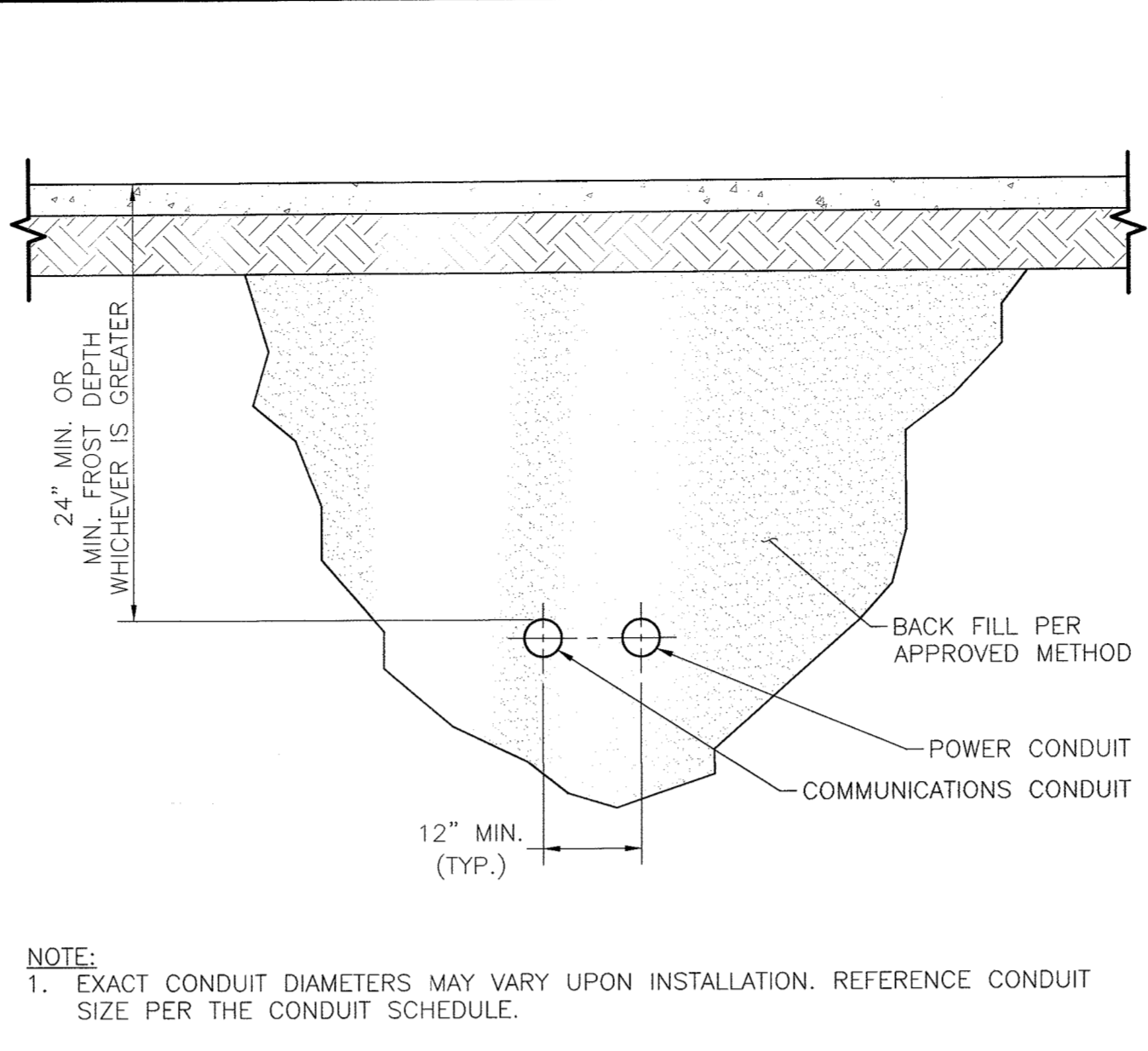
A	AMPERE
AC	ALTERNATING CURRENT
AL	ALUMINUM
ART	ARTICLE
AUX	AUXILIARY
BLDG	BUILDING STRUCTURE
CONC	CONCRETE
CU	COPPER
DC	DIRECT CURRENT
EGC	EQUIPMENT GROUNDING CONDUCTOR
(E)	EXISTING
EMT	ELECTRIC METALLIC TUBING
EV	ELECTRIC VEHICLE
EVSE	ELECTRIC VEHICLE SUPPLY EQUIPMENT
GALV	GALVANIZED
GND	GROUND
HDG	HOT DIPPED GALVANIZED
I	CURRENT
KVA	KILOVOLT AMPERE
KW	KILOWATT
M	METER
MAX	MAXIMUM
MIN	MINIMUM
N	NEUTRAL
NEC	NATIONAL ELECTRIC CODE
NTS	NOT TO SCALE
(N)	NEW
OC	ON CENTER
PL	PROPERTY LINE
PVC	POLYVINYL CHLORIDE
RMC	RIGID METALLIC CONDUIT
SCH	SCHEDULE
SS	STAINLESS STEEL
TYP	TYPICAL
V	VOLT
W	WATT
XFMR	TRANSFORMER

ELECTRICAL NOTES:

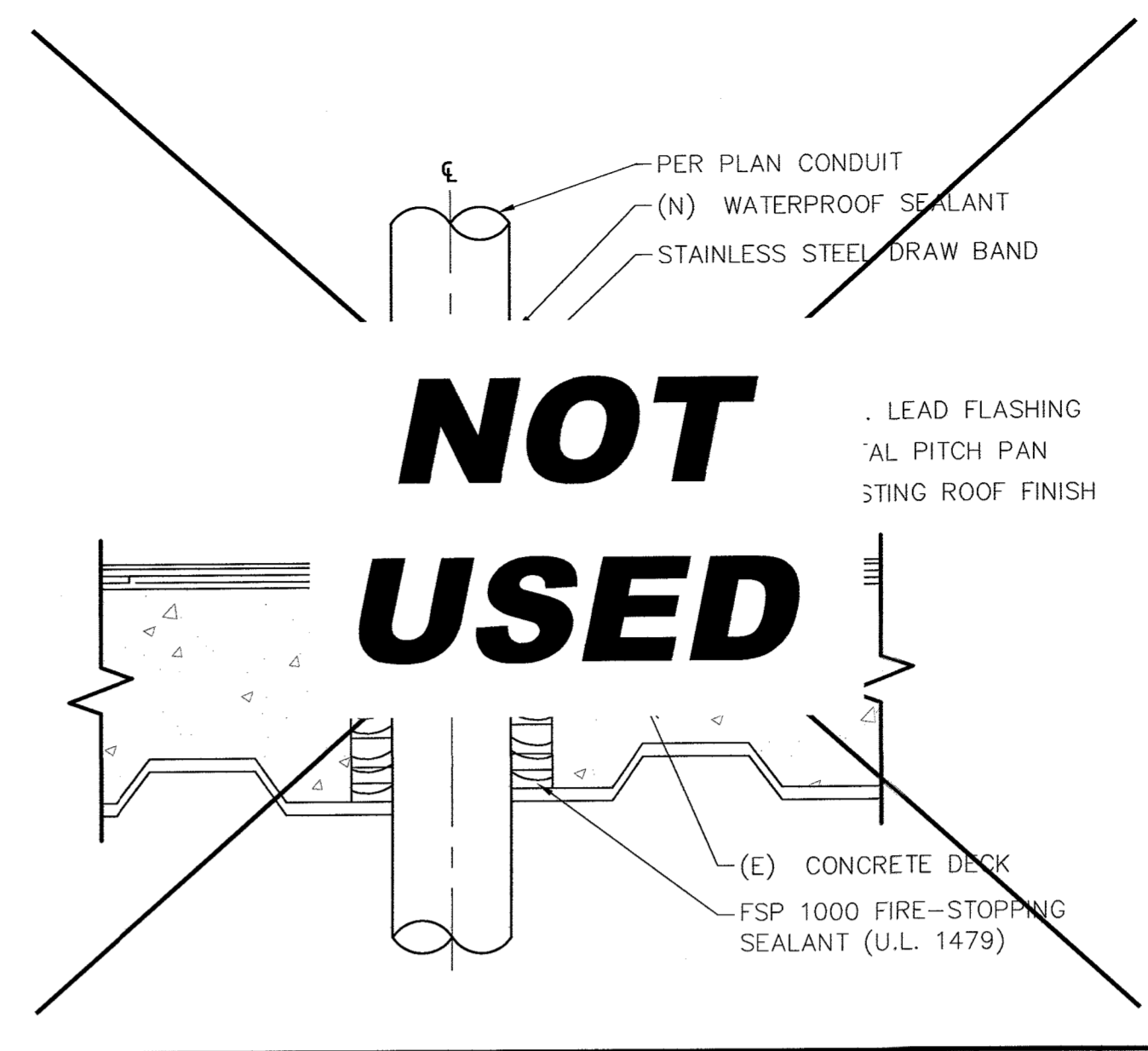
1. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
2. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
3. CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS.
4. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS WHEN DRILLING INTO EXISTING CIP SLAB AND CIP DROP PANELS TO AVOID DAMAGE TO ANY REINFORCING AND EXISTING STRUCTURAL COMPONENTS.
5. USE APPROVED ASTM METHOD (X-RAY, PACOMETER, GPR, ETC.) TO LOCATE MILD STEEL AND PRE-STRESSING TENDONS PRIOR TO DRILLING. DO NOT CUT OR DRILL THROUGH ANY EXISTING REINFORCING. ADJUST LOCATION AS NECESSARY TO AVOID EXISTING REINFORCING.
6. PRIOR TO DRILLING, CONTRACTOR SHALL VERIFY THICKNESS OF EXISTING CONCRETE WALL IS AT LEAST 9" AND THAT 6" ANCHOR EMBEDMENT CAN BE PROVIDED.
7. REFER TO CIVIL PLANS FOR WALL MOUNT LOCATIONS.



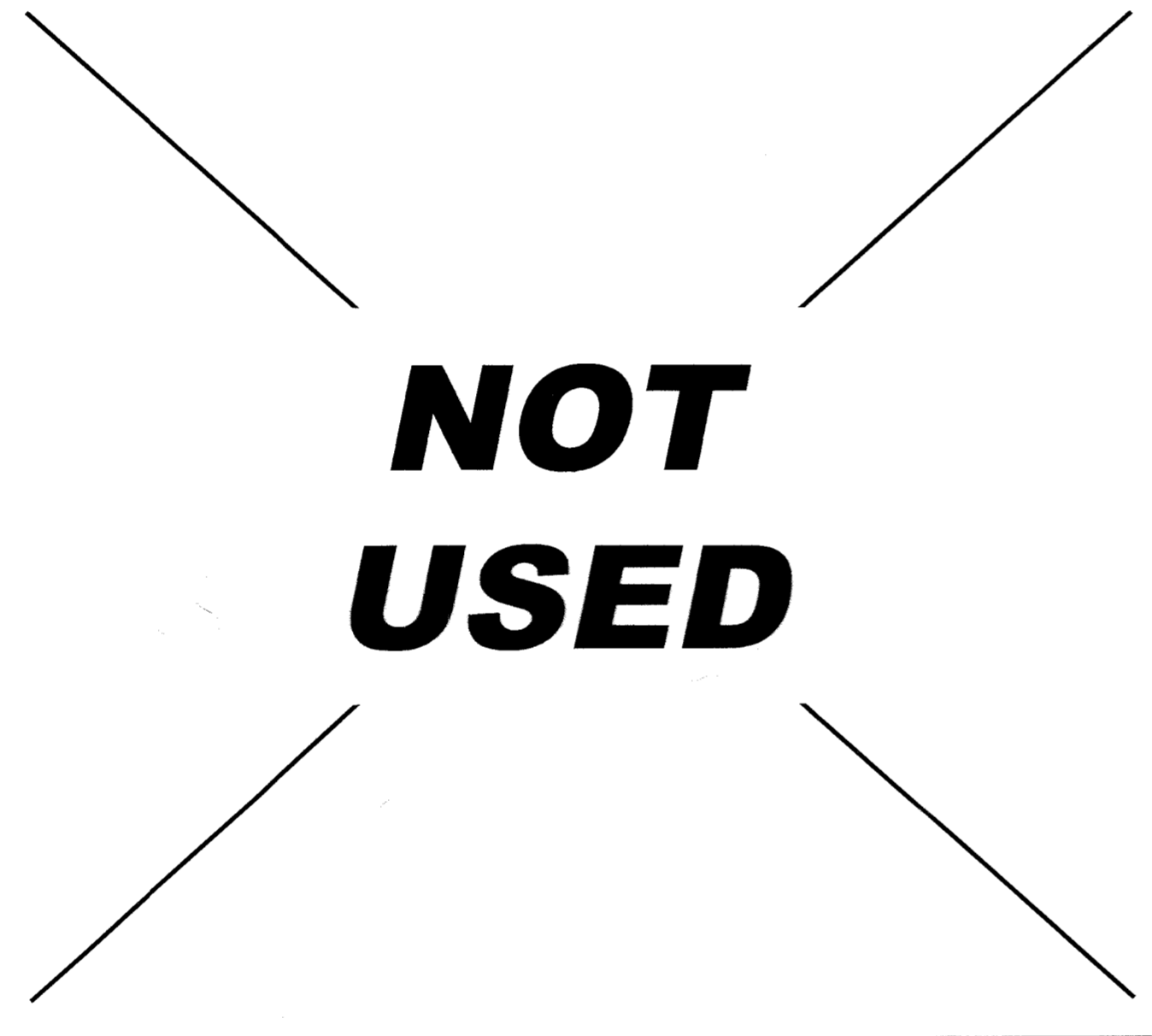
POWER TRENCH SCALE N.T.S. 2



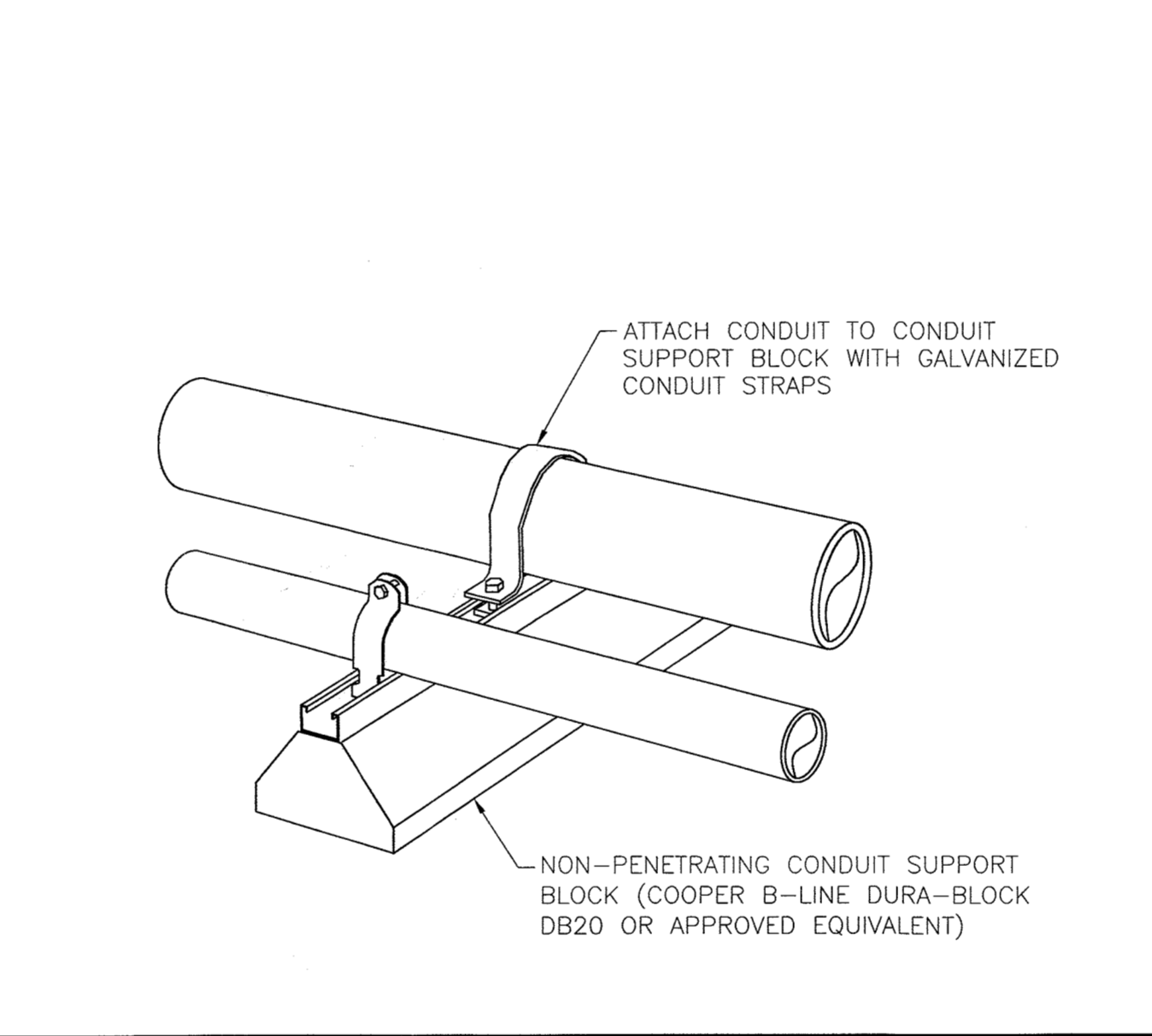
BORE SECTION SCALE N.T.S. 3



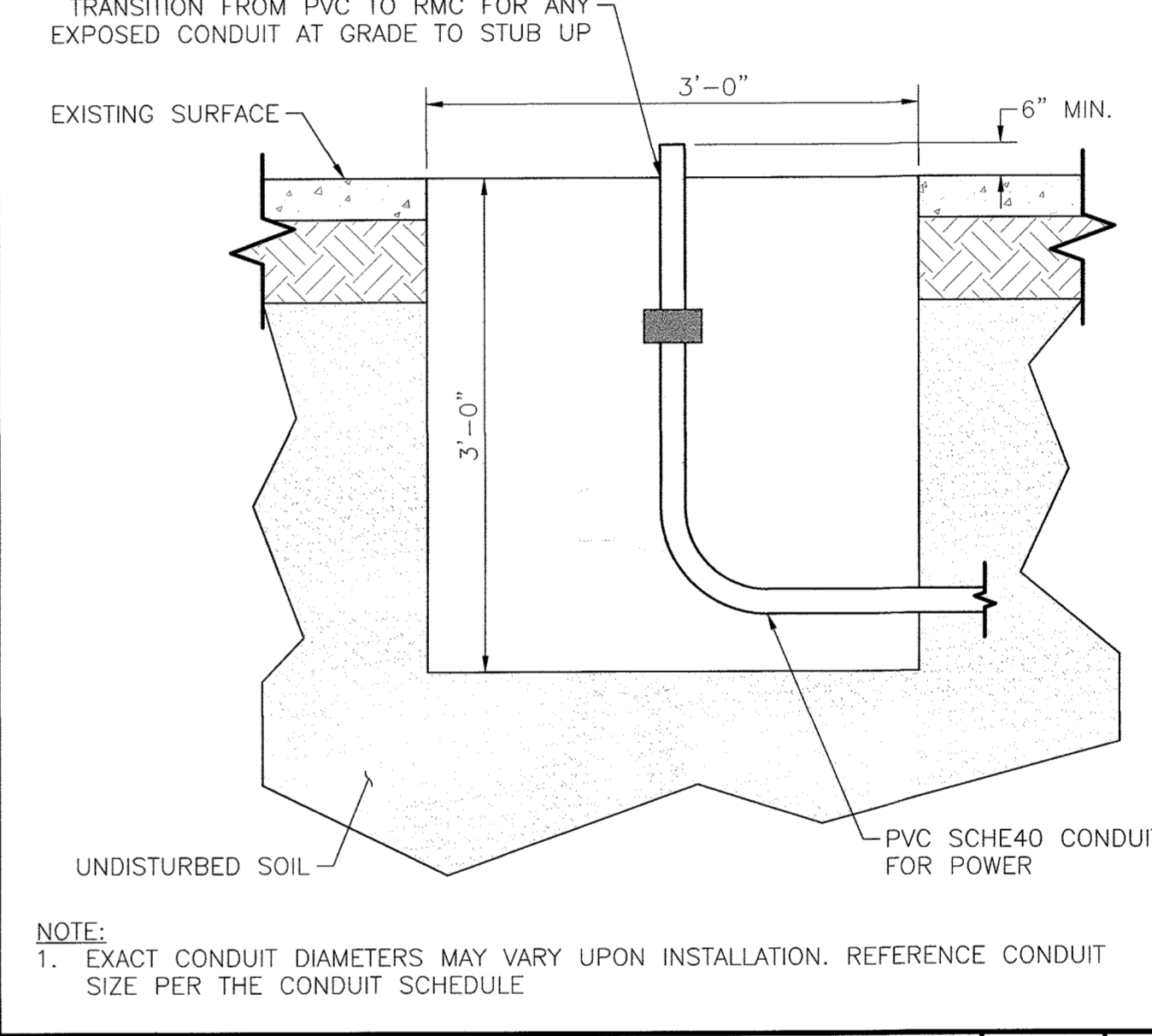
CORE DETAIL SCALE N.T.S. 4



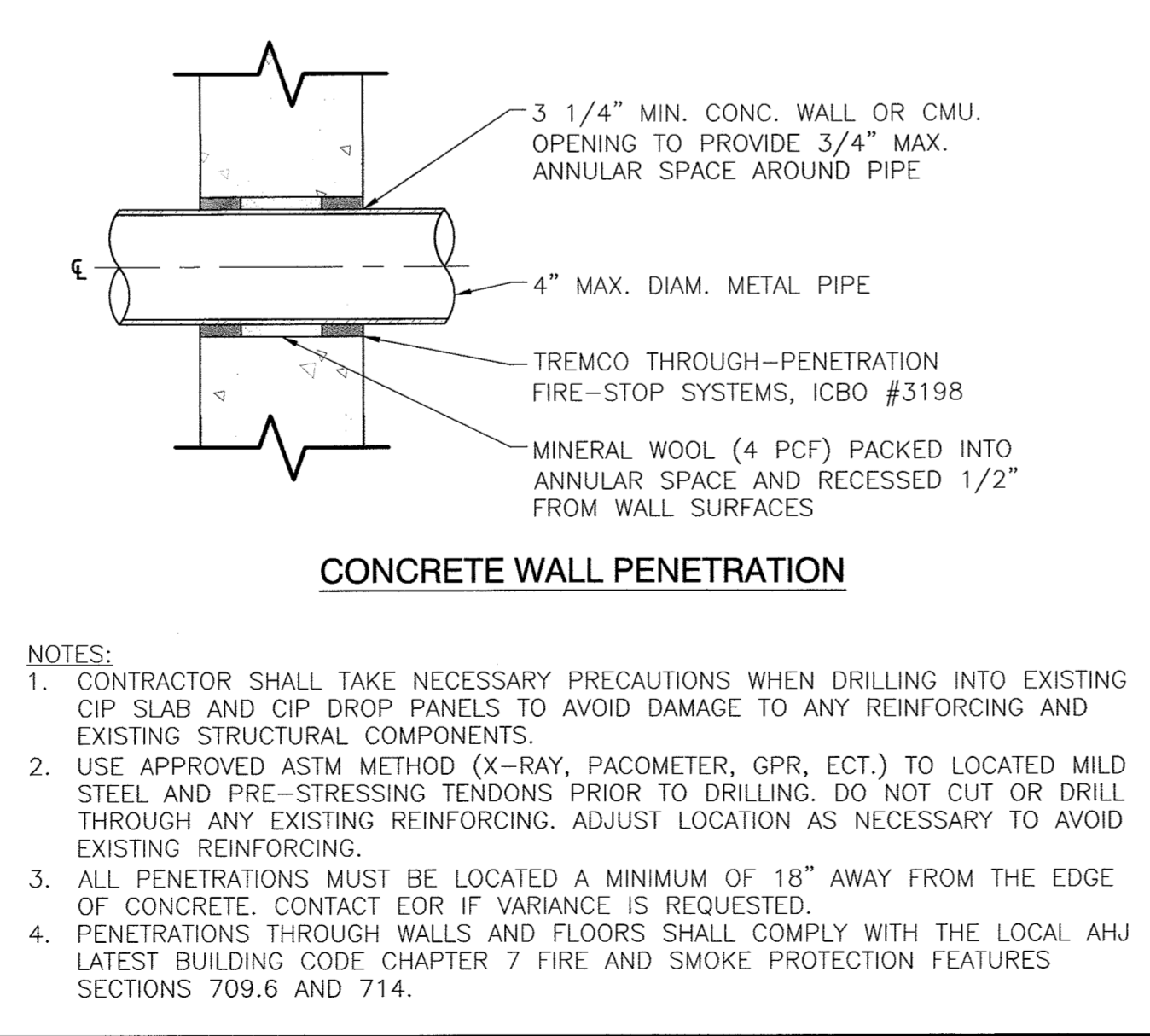
NOT USED SCALE N.T.S. 5



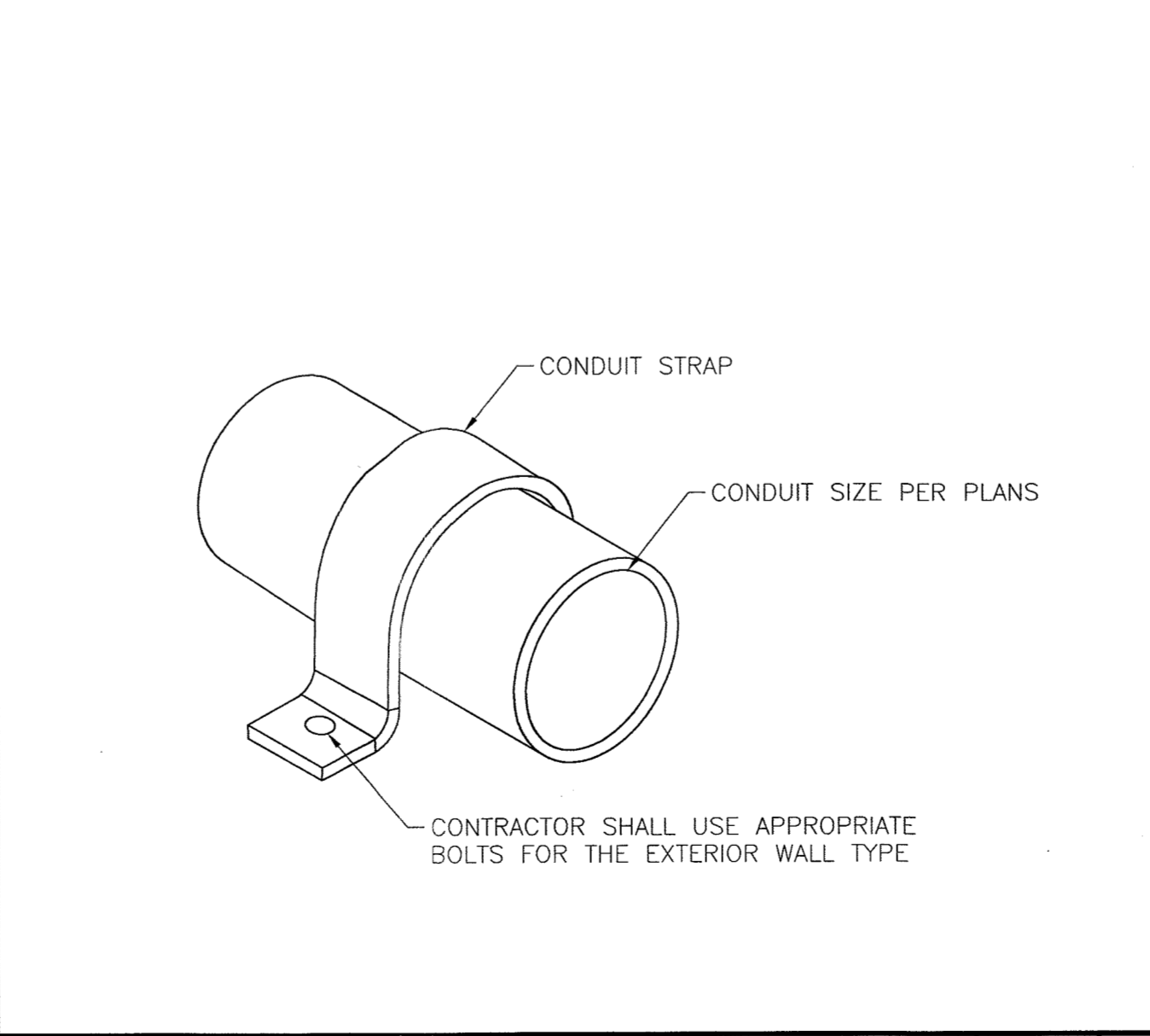
ROOFTOP CONDUIT SUPPORT SCALE N.T.S. 6



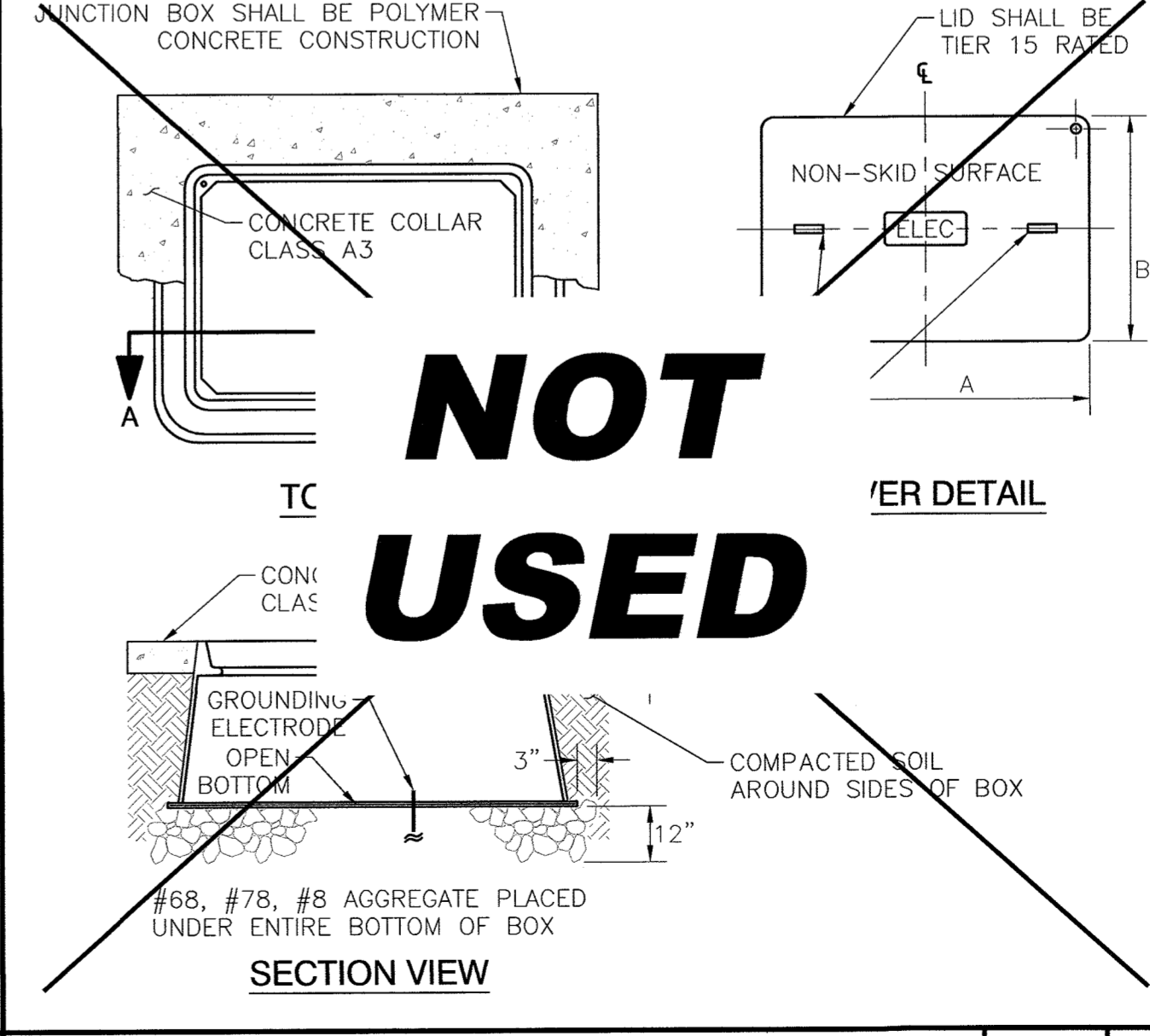
BORE PIT SCALE N.T.S. 7



PENETRATION DETAIL SCALE N.T.S. 8B



WALL CONDUIT MOUNT STRAP SCALE N.T.S. 9



NON-TRAFFIC RATED JUNCTION BOX SCALE N.T.S. 10

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SHEET TITLE
ELECTRICAL NOTES & DETAILS

SHEET NUMBER
E2-00