

PRELIMINARY DESIGN DRAWINGS

volta

BIG Y #19 LUDLOW

433 CENTRE STREET, LUDLOW,
MA 01056

volta

155 DE HARO STREET
SAN FRANCISCO, CA 94103MAVERICK
ELECTRIC VEHICLE SERVICES1 WESTINGHOUSE PLAZA
SUITE D6, BOSTON, MA 02136
+1 617-361-6700

ITEM	TASK	YES	NO	N/A
1	CONTACT 811 UTILITY PRIOR TO EXCAVATION WORK.			
2	NOTIFY VOLTA & MAVERICK 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 EPCO CONTROL MEASURES PER LOCAL REQUIREMENTS.			
10	LOCATE VERTICAL AND HORIZONTAL UTILITIES PRIOR TO BORING.			
11	PROVIDE PROPOSED LIMITS OF ASPHALT OVERLAY SKETCH TO MAVERICK & 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 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:

- 7 STANDARD PARKING STALLS ARE TO BE CONVERTED INTO 8 ELECTRIC VEHICLE (EV) PARKING STALLS & 1 ACCESSIBILITY AISLE. (2) FAST DUAL CHARGING STATIONS ARE TO BE INSTALLED IN LANDSCAPE ISLAND ADJACENT TO THE EV PARKING STALLS & (2) LEVEL 2 MEDIA SINGLE CHARGING STATIONS ARE TO BE INSTALLED IN LANDSCAPE ISLAND ADJACENT TO THE EV PARKING STALLS WITH ONE LEVEL 2 CHARGING STALL TO BE ADA ACCESSIBLE. ELECTRICAL CONDUITS WILL BE INSTALLED FROM NEW SWITCHGEAR TO THE ELECTRIC VEHICLE CHARGING STATIONS. VOLTA WILL ALSO PAINT AND MARK ALL EV CHARGING PARKING STALLS AND INSTALL NECESSARY PARKING SIGNS.

PROGRAM MANAGER:

MAVERICK EV SERVICES
CONTACT: SEAN CLANCY
PHONE: (617) 939-9104

EMAIL: SCLANCY@MAVERICKCORPORATION.COM

ELECTRICAL CONTRACTOR:

MAVERICK CONSTRUCTION
CONTACT: JOHN GARRETT,
DIRECTOR OF ELECTRICAL SERVICES

PHONE: (978) 821-4162

EMAIL: JGARRETT@MAVERICKCORPORATION.COM

VOLTA REPRESENTATIVE:

VOLTA

CONTACT: RAQUEL CLEMENT

PHONE: (617) 409-8208

EMAIL: RAQUEL.CLEMENT@VOLTACHARGING.COM

SITE PARTNER:

BIG Y

CONTACT: GARY KUCHYT

PHONE: (617) 504-4720

EMAIL: GARY.KUCHYT@BIGY.COM

REV	DATE	DESCRIPTION	BY
00	02/07/24	CDSD	DD
01	02/08/24	CDSD	DD
02	02/15/24	CDSD	DD
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ISSUE DATE

02/29/2024

ISSUED FOR

REVIEW

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BIG Y #19
LUDLOW433 CENTRE STREET,
LUDLOW, MA 01056

SHEET TITLE

COVER SHEET

SHEET NUMBER

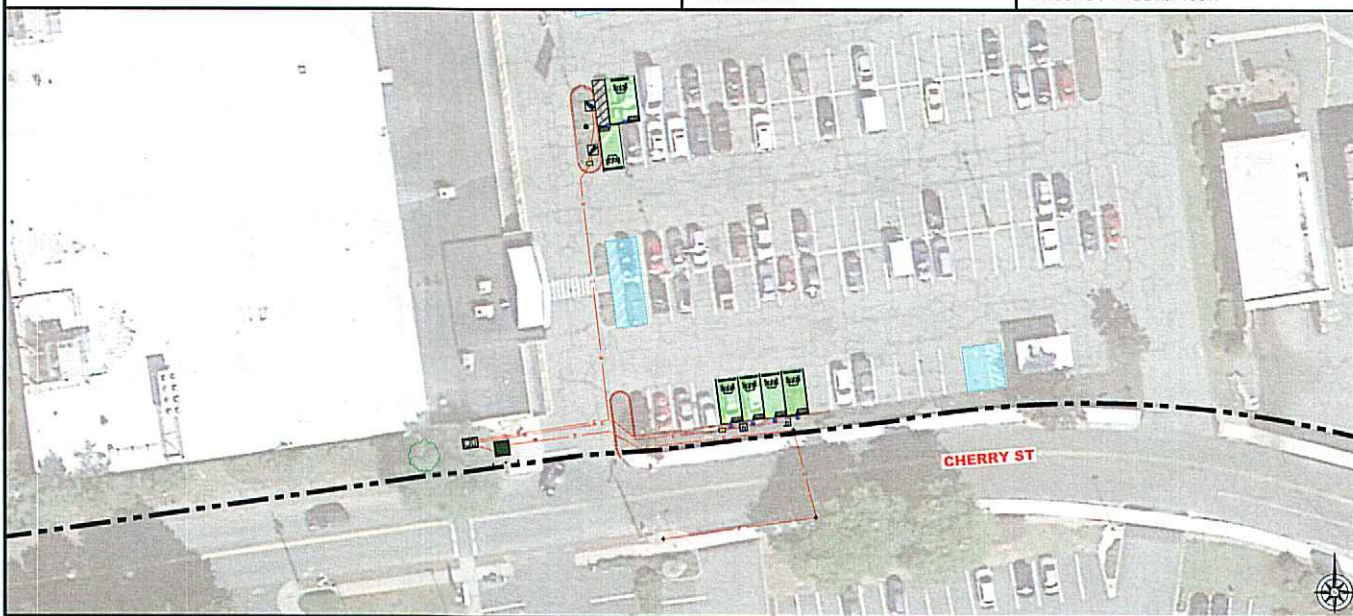
C0-00

CONTRACTOR VERIFICATION CHECKLIST

CODE BLOCK

PROJECT DESCRIPTION

PROJECT TEAM



OVERALL SITE PLAN - EVCS 01, 02, 03, 04, 05 & 06

SCALE
N.T.S.

SHEET NUMBER	SHEET TITLE
C0-00	COVER SHEET
C1-00	SITE PLAN
C2-00	EQUIPMENT SPECIFICATIONS
E1-00	ELECTRICAL ONE LINE DIAGRAM

SHEET INDEX

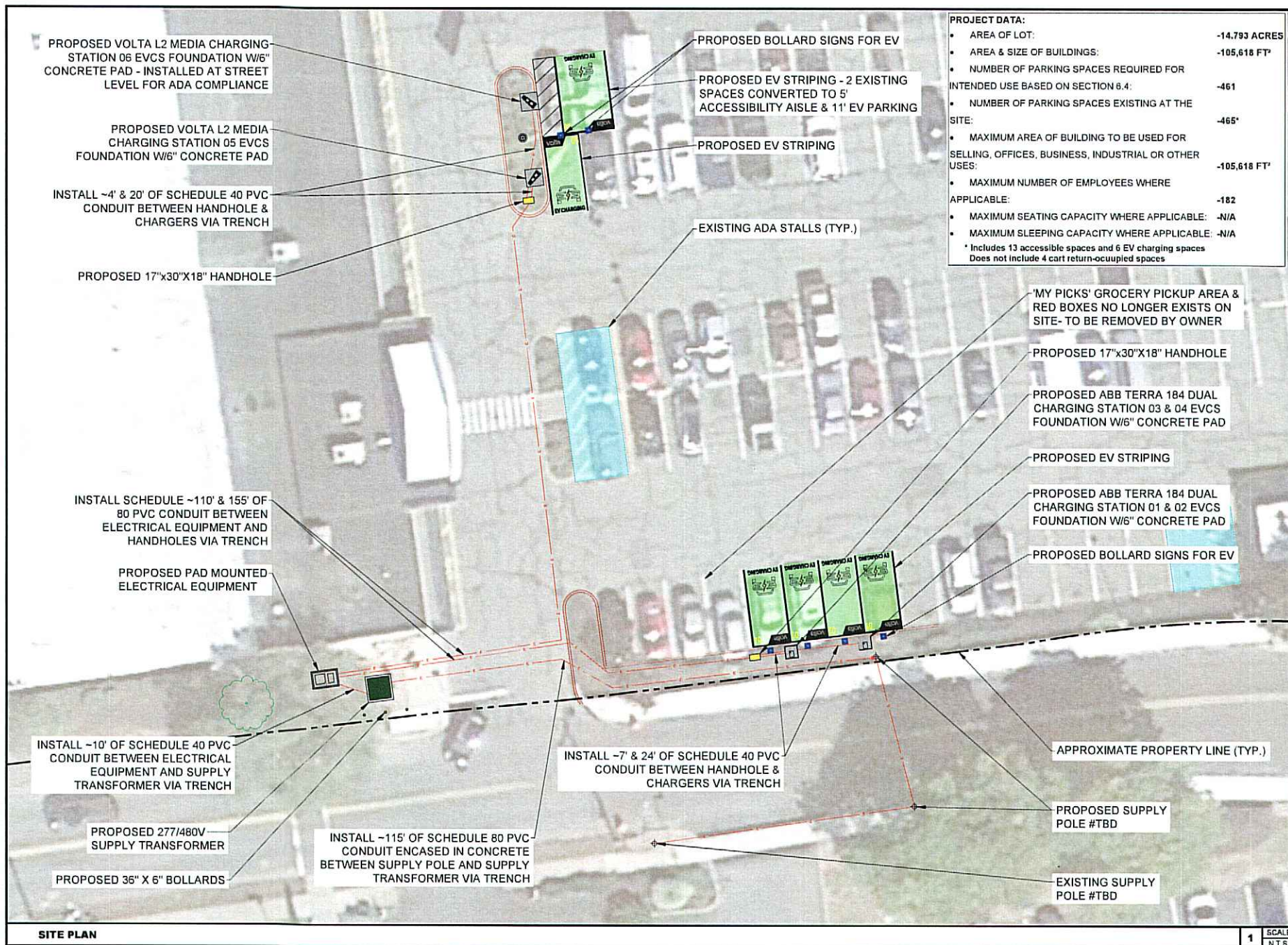


DIG ALERT

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.

CALL BEFORE YOU DIG

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



SITE PLAN

1 SCALE
N.T.S.

volta

155 DE HARO STREET
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MAVERICK
ELECTRIC VEHICLE SERVICES

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**BIG Y #19
LUDLOW**
**433 CENTRE STREET,
LUDLOW, MA 01056**

SHEET TITLE
SITE PLAN

SHEET NUMBER
C1-00



Level 2 Media Station

Matching charging speed with business needs.
Charging Designed For You™

Volta Charging is driving the transition to clean electric transportation by transforming properties with electric vehicle charging. No longer will people drive to fuel, but fuel where they go.

Placing the right chargers for each property's businesses and customers.

Volta's turn-key electric vehicle charging is tailored to each location's needs and desired customer experience to increase traffic and customer engagement. Our fully integrated EV chargers include high-impact digital media screens that provide properties with branding and messaging as well as additional revenue opportunities.

Station Rating	10 kW
AC Input	
Input Voltage	208 VAC, 1-phase
Input Current	48 A
Input Wiring	3-wire (L1, L2, GND)
Input Frequency Range	60 Hz
Circuit Breaker	60 A, 2-pole
AC Input (Auxiliary)	
Input Voltage	120 VAC, 1-phase
Input Current	6 A
Input Wiring	3-wire (L1, N, GND)
Circuit Breaker	20 A
Protection	
Ground Fault Protection	Yes
Ground Monitor	Yes
Protection	Over-Voltage, Over-Current, Over-Temperature, Short-Circuit
Environment Capabilities	
Operating Temperature	-30°C to +50°C
Operating Altitude	6500 ft.
Humidity	95% Non-Condensing
Physical Characteristics	
Station Dimension	42.5" W x 15.5" D x 85" H
Station Weight	700 lbs
Enclosure Rating	NEMA 3R
Compliance	
Safety	FCC, UL 2231/2, UL 2594, NEC Article 625, CSA C22.2 No. 280-16
ADA	Yes
Features	
Connector Type	J1772
Cable Length	15 feet
Cable Management System	Yes
Contactless Reader	Yes, NFG
Display	55-inch w/ Ambient Light Sensor
Network Interface	OCPP 1.6J
Network Connectivity	Cellular
Demand Response	Yes, OpenADR 2.0b

Key features

- All installation costs covered by Volta (chargers, engineering, permitting, construction services)
- Ongoing networking, maintenance & monitoring
- Over-the-air station software updates
- 24/7 customer support
- Dual 55" digital displays with dynamic media content
- Curated brand & community engaging opportunities
- Engagement opportunities & QR capabilities
- Real-time station status
- Accessible partner portal reporting utilization insights, data & LEO analytics
- Charges up to 100V (up to 40 miles of range/hour)
- Load times of < 2 hours
- Universal J1772 connector
- Real-time station availability
- Check-in & charging session details
- Supports Apple Pay, Google Pay & credit card
- Tap or Call
- Volta app, Apple Pay, Google Wallet & credit card
- Weather-resistant enclosure
- ETL listed and UL recognized
- Designed for ADA compliance

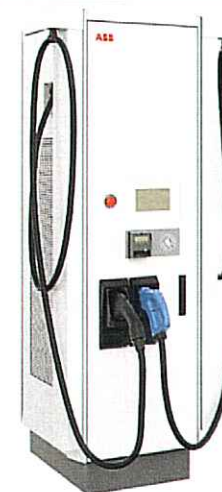


15.5" D 42.5" W

1 SCALE N.T.S.

VOLTA LEVEL 2 MEDIA STATION SPECIFICATION

Terra DC Fast Chargers Technical specification UL



Specifications	Terra 84	Terra 124	Terra 184
Electrical			
Maximum output power	90 kW	120 kW or 80 kW x 2	180 kW or 90 kW x 2
AC input voltage	480V / 277 VAC +/- 10% (60 Hz)		
AC input connection	3-phase: L1, L2, L3, GND (no neutral)		
Nominal input current and input power rating	115 A, 96 kVA	153 A, 128 kVA	230 A, 192
Recommended upstream circuit breaker(s)	150 A	200 A	300 A
Power Factor*	> 0.95		
Current THD*	< 5%		
Short circuit current rating	65 kA		
DC output voltage	CCS-1: 150 - 920 VDC; CHAdeMO: 150 - 500 VDC		
DC output current	CCS-1: 200 A CHAdeMO: 200 A	CCS1 200 A, CHAdeMO: 200 A Optional CCS1 300 A (nominal) and 400 A (peak) high current cable(s)	
Efficiency*	95%		
Interface and Control			
Charging protocols	CCS1 and CHAdeMO 1.2		
User Interface	7" high brightness full color touchscreen display		
RFID system	ISO/IEC 14443A/B, ISO/IEC 15393, FelICA™, NFC reader mode, Mifare, Calypso, (option: Legic)		
Network connection	GSM/3G/4G modem; 10/100 Base-T Ethernet		
Communication	OCPP 1.6 Core and Smart Charging Profiles; Autocharge via OCPP		
Supported languages	English (others available on request)		
Environment			
Operating temperature	-35 °C to +55 °C / -31 °F to +131 °F (de-rating characteristics apply at extreme temperatures)		
Recommended storage conditions	-10 °C to +70 °C / 14 °F to +158 °C (dry environment)		
Protection	IP54, NEMA 3R; indoor and outdoor rated		
Humidity	5% to 95%, non-condensing		
Altitude	up to 2000 m (6560 ft)		
General			
Charge cable	6 m (19.6 ft)		
Dimensions (H x W x D)	1800 x 565 x 880 mm / 74.8 x 22.2 x 34.6 in		
Weight	350 kg / 775 lbs	365 kg / 800 lbs	395 kg / 870 lbs
Compliance and safety	UL 2202, CSA No. 107.1-16; UL 2231-1, UL 2231-2, CSA STD C22.2 No. 107.1, NEC Article 625, EN 61851, EN 62196; CHAdeMO 1.2, DIN 70121, ISO 15118; IEC 61000-6-3, EMC Class B, FCC Part 15		

*Data shown at nominal output power

ABB TERRA 184 DUAL CHARGING STATION SPECIFICATION

2 SCALE N.T.S.

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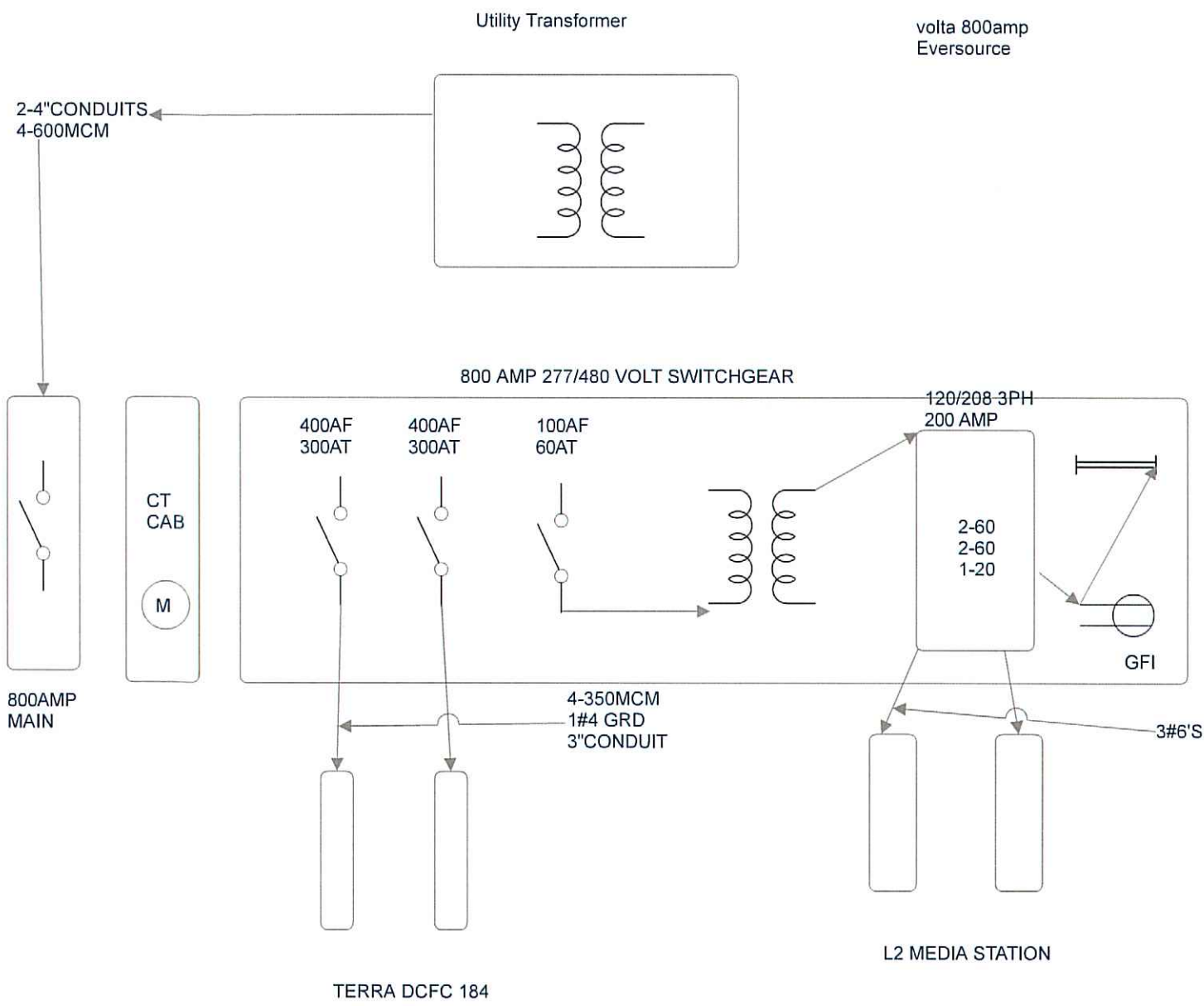
433 CENTRE STREET,
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SHEET TITLE

EQUIPMENT SPECIFICATIONS

SHEET NUMBER

C2-00



volta 800amp
Eversource

volta
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SHEET TITLE
**ELECTRICAL ONE
LINE DIAGRAM**

SHEET NUMBER
E1-00