

SECOND AMENDMENT
TO
MANSFIELD STARCENTER LEASE AND OPERATING AGREEMENT

THIS SECOND AMENDMENT TO MANSFIELD STARCENTER LEASE AND OPERATING AGREEMENT (the “**Second Amendment**”) is made and entered into by and between the City of Mansfield, Texas, a home rule city of the State of Texas (“**Landlord**”) and DSE Hockey Centers, L.P., a Delaware limited partnership (“**Tenant**”) and collectively with Landlord referred to herein as the “**Parties**”) and amends that certain Mansfield StarCenter Lease and Operating Agreement made and entered into on September 6, 2016, as amended by that Amendment to Mansfield StarCenter Lease and Operating Agreement entered into on August 8, 2017 (collectively the “**Original Agreement**”).

WHEREAS, Section 17.22 of the Original Agreement provides that the Original Agreement may be amended to change, modify, discharge or effect an abandonment of the Original Agreement by a written instrument signed by or on behalf of the party against whom enforcement of the change, modification, discharge or abandonment is sought; and

WHEREAS, Landlord and Tenant desire to amend the Original Agreement per the terms of this Second Amendment as set forth herein.

NOW, THEREFORE, in consideration of the promises and agreements reached between the Parties, all of which are expressly set forth herein, and other good and valuable consideration, the receipt and sufficiency of which is also hereby acknowledged by the Parties, it is hereby agreed by the Parties as follows:

1. **Definitions.** Capitalized terms used and not defined in this Second Amendment have the respective meanings assigned to them in the Original Agreement.
2. **Amendments to the Original Agreement.** As of the effective date of this Second Amendment, the Original Agreement is hereby amended as follows:
 - A. **Section 5.5 Amendment.** The Parties agree that Section 5.5 of the Original Agreement is amended by adding a new subsection 5.5(k) to read as follows:

“(k) Tenant is permitted to install and maintain electric vehicle charging stations (“**Stations**”) within the Parking Area at the locations, and in accordance with the specifications, shown on the attached **Exhibit “D”**. Advertising may be displayed on the Stations; provided, however, that the advertising may not (i) include any alcoholic beverages or tobacco products or any company that produces or distributes alcoholic beverages or tobacco products, or (ii) promote any subject matter which Landlord finds reasonably objectionable, or would adversely affect the City of Mansfield identity or brand in the reasonable opinion of Landlord. Tenant shall be responsible for installing, maintaining, and removing the Stations and for the costs thereof. Tenant shall maintain the Stations in good condition, so they do not appear unreasonably aged, weathered or worn, normal wear and tear excepted. Tenant shall remove the Stations upon the expiration or earlier termination of this Lease and repair any damage caused by removal of the Stations, so that the portions of the Parking Area on which the Stations are located are returned to substantially the same condition as before the Stations were installed, normal

wear and tear excepted. Tenant will be responsible for all electricity costs attributable to the Stations in accordance with Section 11.3 of this Lease.”

- B. **New Exhibit D Amendment.** The Parties agree that the Original Agreement is amended by adding a new Exhibit “D” to the Original Agreement, which is shown on the attached Exhibit “A” to this Second Amendment.
3. **Remainder of Original Agreement Unmodified.** Except as expressly provided in this Second Amendment, all of the terms and provisions of the Original Agreement are and will remain in full force and effect and are hereby ratified and confirmed by the Parties.
4. **Miscellaneous.** This Second Amendment is governed by and construed in accordance with, the laws of the State of Texas, without regard to the conflict of laws provisions of such State, and is wholly performable in Tarrant County, Texas. This Second Amendment shall inure to the benefit of and be binding upon each of the Parties and each of their respective successors and assigns. This Second Amendment may be executed in counterparts, each of which is deemed an original, but all of which constitute on and the same agreement. Delivery of an executed counterpart of this Second Amendment electronically shall be effective as delivery of an original executed counterpart of this Second Amendment.

AGREED and EFFECTIVE as of this _____ day of _____, 2023.

“Landlord”
City of Mansfield

By: _____
Vanessa Ramirez, Assistant City Manager

ATTEST:

Susana Marin, City Secretary

“Tenant”
DSE HOCKEY CENTERS, L.P.
By DSE Hockey Centers GP, Inc.
Its general partner

By: _____
Name: _____
Title: _____

EXHIBIT A

Exhibit "D" to the Original Agreement

volta

STARCENTER

1715 E. BROAD ST.
MANSFIELD, TX 76063
COUNTY OF TARRANT

ABOVE SPACE RESERVED FOR CITY USE ONLY



ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

BUILDING/DWELLING CODE INTERNATIONAL BUILDING CODE 2015
STRUCTURAL CODE INTERNATIONAL BUILDING CODE 2015
PLUMBING CODE UNIFORM PLUMBING CODE 2015
MECHANICAL CODE UNIFORM MECHANICAL CODE 2015
ELECTRICAL CODE NATIONAL ELECTRICAL CODE 2017
FIRE/LIFE SAFETY CODE INTERNATIONAL FIRE CODE 2015

VOLTA PROPOSES TO INSTALL:

- SIX (6) STANDARD PARKING STALLS ARE TO BE CONVERTED INTO FOUR (4) STANDARD ELECTRIC VEHICLE (EV) PARKING STALLS AND ONE (1) ACCESSIBLE EV PARKING STALL. FIVE (5) ELECTRIC VEHICLE CHARGING STATIONS ARE TO BE INSTALLED IN LANDSCAPE ISLANDS ADJACENT TO THE EV PARKING STALLS. ELECTRICAL CONDUITS WILL BE EXTENDED FROM EXISTING ELECTRICAL ROOM PANEL. VOLTA WILL ALSO PAINT AND MARK ALL EV CHARGING PARKING STALLS AND INSTALL NECESSARY PARKING SIGNS.

APPLICANT:

VOLTA
155 DE HARO STREET
SAN FRANCISCO, CA 94103
CONTACT: TYLER BASE
EMAIL: TYLER.BASE@VOLTACHARGING.COM

ENGINEER:

AMP ENGINEERING LLC
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
CONTACT: ARMANDO MALDONADO
PHONE #: 281-827-9490
EMAIL: ARMANDO@AMP-ENGINEERING.COM

PROJECT MANAGER:

VOLTA
155 DE HARO STREET
SAN FRANCISCO, CA 94103
CONTACT: TYLER BASE
EMAIL: TYLER.BASE@VOLTACHARGING.COM

ELECTRICAL ENGINEER:

AMP ENGINEERING LLC
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
CONTACT: ARMANDO MALDONADO
PHONE #: 281-827-9490
EMAIL: ARMANDO@AMP-ENGINEERING.COM

REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION



FIRM: F-24435
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
(281)827-9490
www.amp-engineering.com



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

SHEET TITLE

TITLE SHEET

SHEET NUMBER

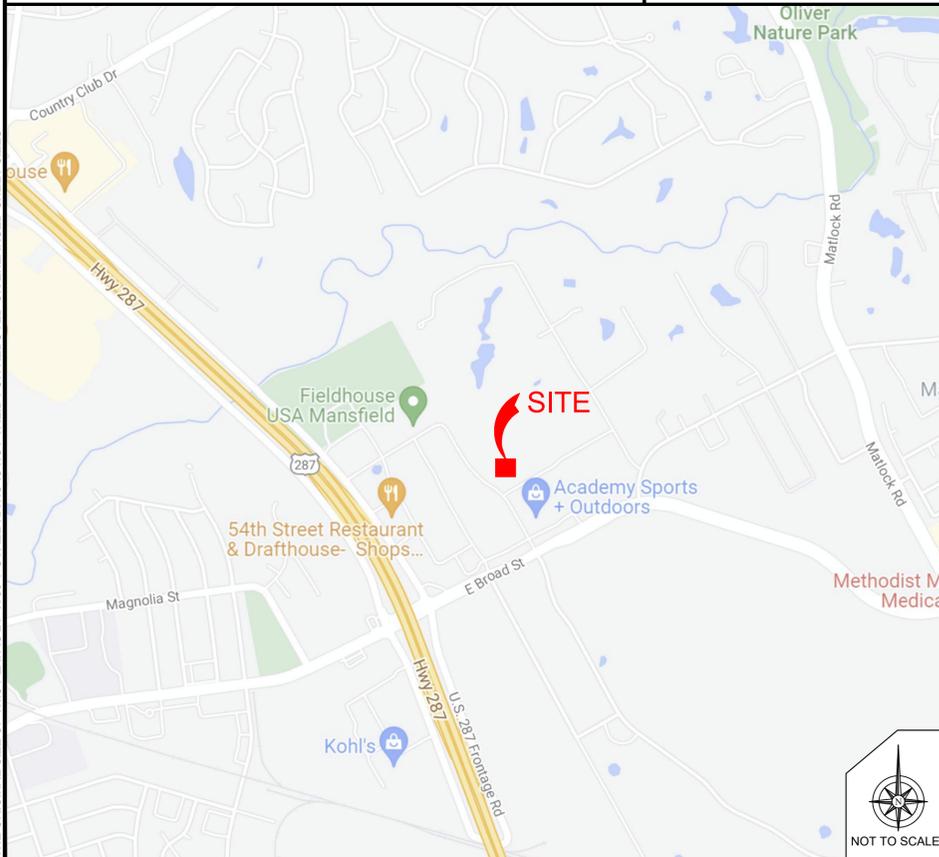
T-1

NOT USED

CODE BLOCK

PROJECT DESCRIPTION

PROJECT TEAM



VICINITY MAP



LOCAL MAP

SHEET DESCRIPTION

SHEET	DESCRIPTION
T-1	TITLE SHEET
T-2	GENERAL NOTES
T-3	VOLTA OVERVIEW
T-4	ACCESSIBILITY REQUIREMENTS
C-1	OVERALL SITE PLAN
C-2	EVCS SITE PLAN
C-3	EVCS SITE PLAN
C-4	EVCS SITE PLAN
E-1	ELECTRICAL SPECIFICATIONS
E-2	CONDUIT PLAN
D-1	DETAILS
D-2	DETAILS

SHEET INDEX



Know what's below.
CALL before you dig.

CALL AT LEAST FIVE WORKING DAYS BEFORE YOU DIG

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

DO NOT SCALE DRAWINGS

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

GENERAL NOTES:

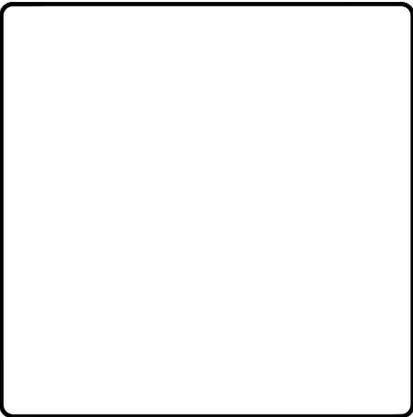
1. THIS DOCUMENT IS NOT A COMPLETE GUIDE OF ALL REQUIREMENTS AND DETAILS NECESSARY FOR CONSTRUCTION. THE INSTALLATION GUIDE AND OTHER DOCUMENTATION PROVIDED BY VOLTA SHOULD BE REFERENCED FOR ADDITIONAL INFORMATION.
2. ALL OF THE EXISTING UTILITY LOCATIONS AND CROSSINGS ARE TO BE LOCATED ON SITE. THE CONTRACTOR IS TO CONTACT 811 PRIOR TO ANY EXCAVATION WORK.
3. ANY PAVEMENT, LANDSCAPING, UTILITIES, OR ANY OTHER OWNER PROPERTY THAT IS DAMAGED BY CONSTRUCTION IS TO BE RETURNED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
4. WHEREVER POSSIBLE, THE PROPOSED PAVEMENT STRIPING SHALL LINE UP WITH THE EXISTING STRIPING. AN ADDITIONAL PAVEMENT STRIPE IS NOT NECESSARY PARALLEL TO THE CONSTRUCTED CHARGING ISLAND.
5. THE CONTRACTOR IS TO SUBMIT A SKETCH OF THE ESTIMATED PAVEMENT WORK PROPOSAL TO VOLTA AND AMP ENGINEERING BEFORE COMMENCING PAVEMENT WORK.
6. PROPOSED VOLTA CHARGING STATION LOCATIONS ARE APPROXIMATE. THE CONTRACTOR CAN FIELD LOCATE WITHIN THE LANDSCAPE ISLAND AS NECESSARY AND WITH APPROVAL FROM VOLTA.
7. 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.
8. THE CONTRACTOR IS TO PROVIDE A MINIMUM OF 1% BUT NO MORE THAN 2% SLOPE IN ANY DIRECTION WITHIN AN ADJACENT ACCESSIBLE SPACE. THE ASPHALT OVERLAY IS TO BE BLENDED TO EXISTING GRADES AS REQUIRED. THE CONTRACTOR IS REQUIRED TO PROVIDE A SKETCH OF THE ASPHALT OVERLAY PROPOSAL TO VOLTA BEFORE BEGINNING PAVEMENT WORK.
9. ALL ACCESSIBLE EV STALLS WERE DESIGNED BASED ON EXISTING CONDITIONS AND WITHOUT ADDITIONAL SURVEY DATA. ALL ADA AND LOCAL REQUIREMENTS ARE TO BE CONFIRMED BY THE CONTRACTOR AND ARE TO BE MET AT THE TIME OF CONSTRUCTION.
10. THE CONTRACTOR IS TO NOTIFY AMP ENGINEERING OF ANY INCONSISTENCIES IN ACCESSIBILITY PRIOR TO CONSTRUCTION.

GRADING NOTES:

1. SUPPLEMENTARY EROSION CONTROL DEVICES ARE TO BE USED AS NECESSARY BASED ON REQUIREMENTS BY THE LOCAL INSPECTOR.
2. PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES, EROSION AND SEDIMENT CONTROLS MEASURE SHOULD BE IMPLEMENTED.
3. EROSION CONTROL MEASURES ARE TO BE MAINTAINED AT ALL TIMES. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AS NEEDED IF THE PROPOSED PLAN DOES NOT PROVIDE EFFECTIVE EROSION CONTROL.
4. ALL DISTURBED AREAS ARE TO BE SEEDED UNLESS PREVIOUSLY NOTED AS PART OF THE CONTRACT. ANY LANDSCAPING OR IRRIGATION THAT IS DISTURBED MUST BE REPLACED OR PREPARED IMMEDIATELY UPON COMPLETION OF INSTALLATION.
5. UNDERGROUND UTILITIES HAVE NOT BEEN VERIFIED BY THE OWNER, DESIGNER, OR THEIR REPRESENTATIVES. BEFORE DIGGING, CALL 811.
6. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF EXISTING UTILITIES BEFORE BEGINNING WORK. THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES THAT ARE THE RESULT OF THE CONTRACTOR'S FAILURE TO ACCURATELY LOCATE AND PRESERVE UNDERGROUND UTILITIES. THE CONTRACTOR IS TO NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONFLICTS WITH THE EXISTING OR PROPOSED UTILITIES PRIOR TO PROCEEDING.

EROSION CONTROL NOTES:

1. STOCKPILED TOPSOIL OR FILL MATERIAL IS TO BE TREATED TO ENSURE THAT ANY SEDIMENT RUN-OFF WITH NOT CONTAMINATE SURROUNDING AREAS. THE STOCKPILE LOCATIONS ARE TO BE DEFINED BY THE ENGINEER PRIOR TO THE GRADING BEGINNING. THE EROSION AND SEDIMENT CONTROL MEASUREMENTS ARE TO BE INSTALLED BEFORE THE STOCKPILE OPERATIONS.
2. CONSTRUCT SILT BARRIERS BEFORE BEGINNING GRADING OPERATIONS.
3. MULCH AND SEED ALL DISTURBED AREAS WITHIN 15 DAYS OF COMPLETING THE FINAL GRADING UNLESS OTHERWISE INDICATED. THE CONTRACTOR SHALL ESTABLISH PERMANENT SOIL STABILIZATION. STEEP SLOPES (GREATER THAN 3:1) SHALL BE STABILIZED WITHIN 7 DAYS OF COMPLETING THE FINAL GRADING.
4. ENSURE THAT PUBLIC ROADWAYS ARE KEPT FREE OF TRACKED MUD AND DIRT. PROVIDE TEMPORARY CONSTRUCTION ACCESS POINTS WHERE CONSTRUCTION VEHICLES EXIT THE CONSTRUCTION AREA.
5. DO NOT DISTURB VEGETATION OR REMOVE TREES EXCEPT WHEN NECESSARY FOR GRADING PURPOSED. PRIOR APPROVAL FROM VOLTA AND AMP ENGINEERING IS REQUIRED.



ABOVE SPACE RESERVED FOR CITY USE ONLY



REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

FIRM: F-24435
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
(281)827-9490
www.amp-engineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
T-2

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

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, 48A, 10kW max; UL 2202
- Plug: SAE J1772 compliant connector

POWER REQUIREMENTS

- Charging unit: 60A/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

ABOVE SPACE RESERVED FOR CITY USE ONLY

volta
155 DE HARO STREET
SAN FRANCISCO, CA 94103

REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

AMP
ENGINEERING

FIRM: F-24435
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
(281)827-9490
www.amp-engineering.com



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

SHEET TITLE
**VOLTA STATION
OVERVIEW**

SHEET NUMBER
T-3



Electric Vehicle Charging Stations

TM 2012-01

Effective Date: March 15, 2012
2012 TAS Reference: 201.1

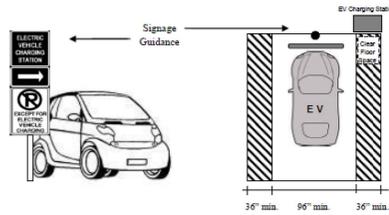
As the U.S. Department of Justice has not issued formal accessibility guidelines addressing electric vehicle charging stations, the Texas Department of Licensing and Regulation issues the following technical clarifications until such time as federal standards become available and are adopted.

If electric charging stations are provided in new or existing parking lots, parking garages or other location containing parking spaces, twenty percent (20%) but not less than one, of each type of charging station in each cluster on a site shall meet the following criteria:

Controls and operating mechanisms for the accessible charging station shall comply with TAS 309 and shall be within the forward reach ranges specified in TAS 308.2.

The vehicle space(s) with the accessible charging station shall be at least 96 inches wide and shall provide a 36 inch wide (minimum) accessible route complying with TAS 402 on both sides of the vehicle space to allow the user adequate space to exit their vehicle and access both sides of the vehicle. Striping of the accessible routes is recommended but not required.

Directional and informational signage complying with TAS 216.3 shall designate the location of the accessible charging stations. The symbol of accessibility is recommended but not required. The following examples of signage and layout are for illustrative purposes only and are not intended to imply that there are no other options available.



NOTE:
THIS SITE HAS BEEN DESIGNED TO BE IN CONFORMANCE WITH TM 2012-12 AS DESCRIBED IN THIS DOCUMENT. CONTRACTOR SHALL ENSURE ALL INFRASTRUCTURE INSTALLED MEETS REQUIREMENTS OF TM 2012-12.

ABOVE SPACE RESERVED FOR CITY USE ONLY

volta

155 DE HARO STREET
SAN FRANCISCO, CA 94103

REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

VOLTA CODE COMPLIANCE

SCALE
N.T.S.

1

NOT USED

SCALE
N.T.S.

2

Figure 305.3 Clear Floor or Ground Space. A clear floor or ground space complying with section 305 shall be provided

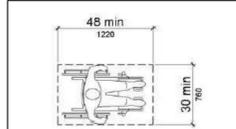


Figure 305.3 Clear Floor or Ground Space

Figure 308.3.2 Obstructed High Side Reach. Operable parts shall be placed within one or more of the reach ranges specified in section 308

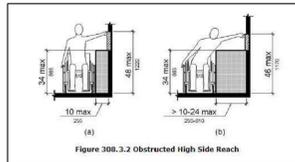
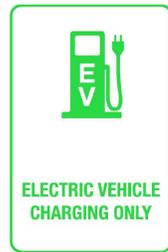


Figure 308.3.2 Obstructed High Side Reach

ACCESSIBILITY DIAGRAMS

SCALE
N.T.S.

3



SIGNAGE AT EACH
STANDARD EV STATION STALL



SIGNAGE AT EACH
ACCESSIBLE EV STATION STALL

SIGN INSTALLATION HEIGHT:
ALL SIGNS SHALL BE INSTALLED AT HEIGHT OF 60" ABOVE FINISHED FLOOR. SIGNS LOCATED WITHIN AN ACCESSIBLE ROUTE SHALL BE INSTALLED AT A HEIGHT OF 80" ABOVE FINISHED FLOOR. MEASUREMENT SHALL BE TAKEN FROM THE BOTTOM OF THE LOWEST SIGN.

THIS SITE COMPLIES WITH REQUIREMENTS OF TM 2012-01

SIGNAGE REQUIREMENTS

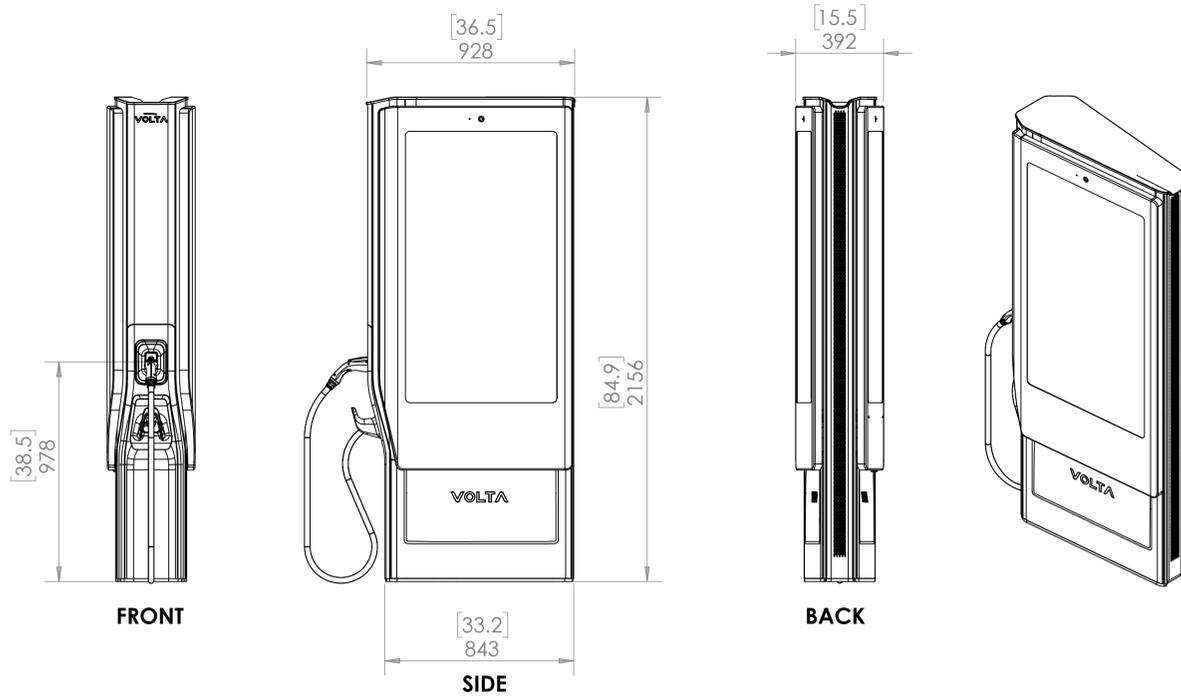
SCALE
N.T.S.

4

VOLTA LEVEL 2 STATION REACH DIMENSIONS

SCALE
N.T.S.

5



BASED ON THE REACH RANGES PROVIDED, THIS SITE COMPLIES WITH TAS SECTION 308. EQUIPMENT DRAWINGS PROVIDED BY MANUFACTURER.

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

AMP
ENGINEERING

FIRM: F-24435
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
(281)827-9490
www.amp-engineering.com



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

SHEET TITLE
**ACCESSIBILITY
REQUIREMENTS**

SHEET NUMBER
T-4

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



EXISTING 1ST FLOOR ELECTRICAL ROOM

PANEL "LC SEC 2" 208/120V (EXISTING)

EVCS #1

EVCS #2

EVCS #4

EVCS #3

EVCS #5

SCOPE OF WORK

DISCLAIMER

THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. VOLTA DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS, ROADS AND SETBACKS.

ABOVE SPACE RESERVED FOR CITY USE ONLY



REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

AMP ENGINEERING
 FIRM: F-24435
 21406 REFUGE CREEK DR.
 CYPRESS, TX 77433
 (281)827-9490
 www.amp-engineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
C-1

NEW FIELD ROUTED ABOVE CEILING TILE (APPROX. 140')
(2)-2 1/2" EMT CONDUIT
(1)-1" EMT CONDUIT
SEE SHEET E-1 FOR DETAILS SECTION "A"

LB TRANSITION INTO BUILDING

TRANSITION TO UNDERGROUND BORING
EMT TO SCH40 PVC
UNDERGROUND BORING BEGINS

UNDERGROUND BORING (APPROX. 115')
(2)-2 1/2" PVC SCH40 CONDUIT
(1)-1" PVC SCH40 CONDUIT
SEE SHEET E-1 FOR DETAILS (SECTION "B")
SEE SHEET D-1 FOR BORING DETAILS

SEE SITE PLANS C-2 THRU C-4 FOR EVCS #1-#5

CONSTRUCTION NOTES:

- CONTRACTOR RESPONSIBILITIES INCLUDE CHARGING STATION MOUNTING, OVERHEAD/UNDERGROUND CONDUIT INSTALLATION, AND WIRING.
- CONTRACTOR TO PAINT PROPOSED EV PARKING SPACES PER JURISDICTIONAL REQUIREMENTS.
- CONTRACTOR TO FIELD SCAN/XRAY EXISTING CONCRETE SLAB TO ENSURE NO REINFORCEMENT IS DAMAGED DURING EQUIPMENT OR CONDUIT ANCHORING, ENSURE 1" GAP MIN. BETWEEN REBAR AND ANCHORAGE.
- EXACT STATION PLACEMENT AND ROTATION ANGLE MAY VARY SLIGHTLY UPON INSTALLATION DEPENDING ON SITE CONDITIONS.
- ANY LANDSCAPING OR IRRIGATION THAT IS DISTURBED MUST BE REPLACED OR PREPARED IMMEDIATELY UPON COMPLETION OF INSTALLATION.

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

OVERALL SITE PLAN

0 4' 8' 16' SCALE: 1/16" = 1'-0" (24x36)
(OR) 1/32" = 1'-0" (11x17)



SCOPE OF WORK

DISCLAIMER

THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. VOLTA DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS, ROADS AND SETBACKS.

CONSTRUCTION NOTES:

1. CONTRACTOR RESPONSIBILITIES INCLUDE CHARGING STATION MOUNTING, OVERHEAD/UNDERGROUND CONDUIT INSTALLATION, AND WIRING.
2. CONTRACTOR TO PAINT PROPOSED EV PARKING SPACES PER JURISDICTIONAL REQUIREMENTS.
3. CONTRACTOR TO FIELD SCAN/XRAY EXISTING CONCRETE SLAB TO ENSURE NO REINFORCEMENT IS DAMAGED DURING EQUIPMENT OR CONDUIT ANCHORING. ENSURE 1" GAP MIN. BETWEEN REBAR AND ANCHORAGE.
4. EXACT STATION PLACEMENT AND ROTATION ANGLE MAY VARY SLIGHTLY UPON INSTALLATION DEPENDING ON SITE CONDITIONS.
5. ANY LANDSCAPING OR IRRIGATION THAT IS DISTURBED MUST BE REPLACED OR PREPARED IMMEDIATELY UPON COMPLETION OF INSTALLATION.



REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

AMP ENGINEERING

FIRM: F-24435
 21406 REFUGE CREEK DR.
 CYPRESS, TX 77433
 (281)827-9490
 www.amp-engineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

STARCENTER
 1715 E. BROAD ST.
 MANSFIELD, TX 76063

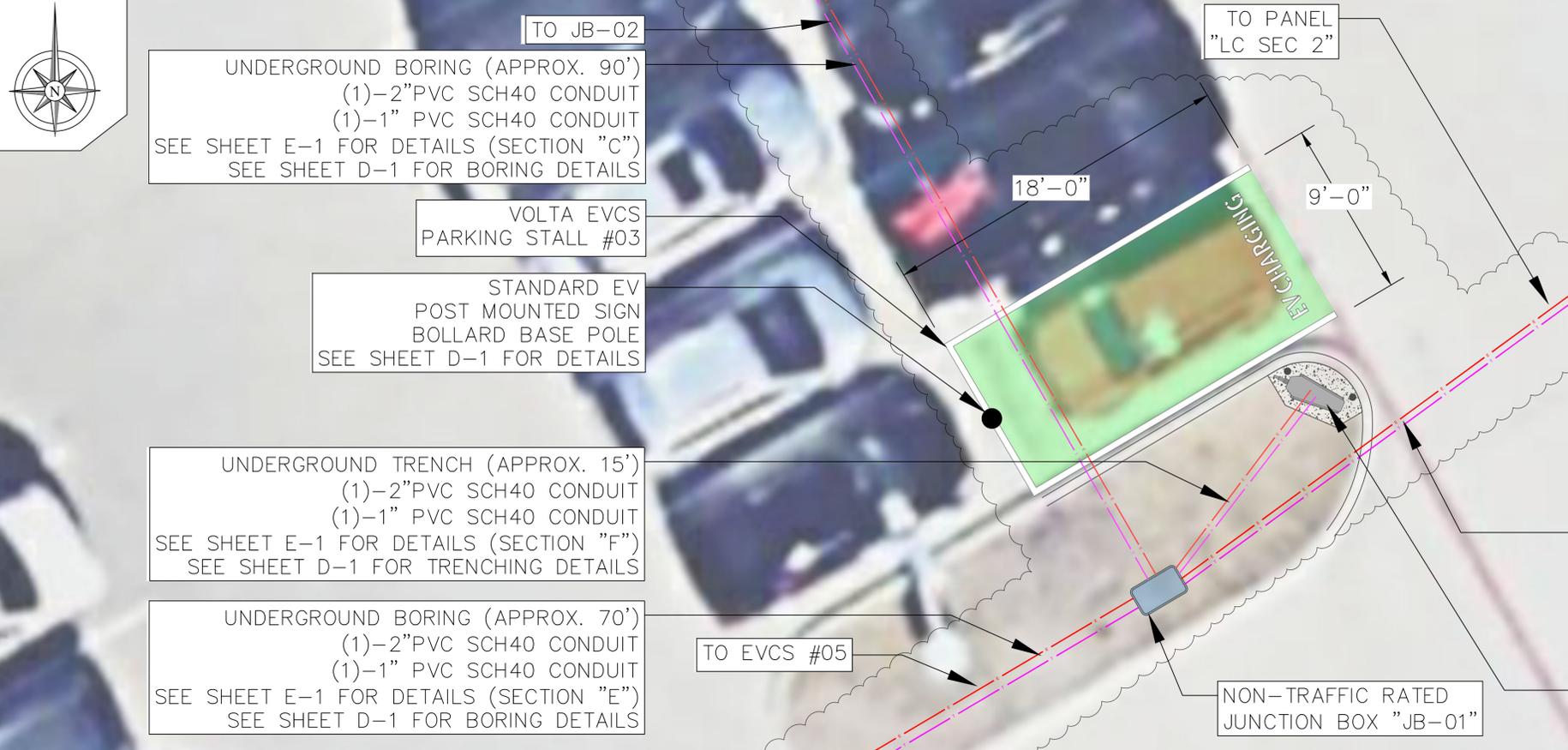
SHEET TITLE
**SITE PLAN
 EVCS #01 & #02**

SHEET NUMBER
C-2

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

ENLARGED SITE PLAN: EVCS #01 & #02

0 1' 2' 4' SCALE: 1/4" = 1'-0" (24x36)
 (OR) 1/8" = 1'-0" (11x17) **2**



DISCLAIMER

THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. VOLTA DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS, ROADS AND SETBACKS.

SCOPE OF WORK

CONSTRUCTION NOTES:

1. CONTRACTOR RESPONSIBILITIES INCLUDE CHARGING STATION MOUNTING, OVERHEAD/UNDERGROUND CONDUIT INSTALLATION, AND WIRING.
2. CONTRACTOR TO PAINT PROPOSED EV PARKING SPACES PER JURISDICTIONAL REQUIREMENTS.
3. CONTRACTOR TO FIELD SCAN/XRAY EXISTING CONCRETE SLAB TO ENSURE NO REINFORCEMENT IS DAMAGED DURING EQUIPMENT OR CONDUIT ANCHORING, ENSURE 1" GAP MIN. BETWEEN REBAR AND ANCHORAGE.
4. EXACT STATION PLACEMENT AND ROTATION ANGLE MAY VARY SLIGHTLY UPON INSTALLATION DEPENDING ON SITE CONDITIONS.
5. ANY LANDSCAPING OR IRRIGATION THAT IS DISTURBED MUST BE REPLACED OR PREPARED IMMEDIATELY UPON COMPLETION OF INSTALLATION.

UNDERGROUND BORING (APPROX. 115')
(2)-2 1/2" PVC SCH40 CONDUIT
(1)-1" PVC SCH40 CONDUIT
SEE SHEET E-1 FOR DETAILS (SECTION "B")
SEE SHEET D-1 FOR BORING DETAILS

VOLTA L2 AC CHARGING STATION #03
CONCRETE FOUNDATION ON EXISTING
LANDSCAPED ISLAND
SEE SHEET D-1 FOR DETAILS

ENLARGED SITE PLAN: EVCS #03

0 1' 2' 4' SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17) **3**



ENLARGED SITE PLAN: EVCS #04

0 1' 2' 4' SCALE: 1/4" = 1'-0" (24x36)
(OR) 1/8" = 1'-0" (11x17) **4**

ABOVE SPACE RESERVED FOR CITY USE ONLY



REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

AMP ENGINEERING

FIRM: F-24435
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
(281)827-9490
www.amp-engineering.com

STATE OF TEXAS
ARMANDO MALDONADO
147552
LICENSED PROFESSIONAL ENGINEER

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

SHEET TITLE
**SITE PLAN
EVCS #03 & #04**

SHEET NUMBER
C-3

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



TO EVCS #04

UNDERGROUND TRENCH (APPROX. 110')
(1)-2" PVC SCH40 CONDUIT
(1)-1" PVC SCH40 CONDUIT
SEE SHEET E-1 FOR DETAILS (SECTION "H")
SEE SHEET D-1 FOR TRENCHING DETAILS

VOLTA EVCS
PARKING STALL #05

18'-0"

9'-0"

TOJB-01

UNDERGROUND BORING (APPROX. 70')
(1)-2" PVC SCH40 CONDUIT
(1)-1" PVC SCH40 CONDUIT
SEE SHEET E-1 FOR DETAILS (SECTION "E")
SEE SHEET D-1 FOR BORING DETAILS

STANDARD EV
POST MOUNTED SIGN
BOLLARD BASE POLE
SEE SHEET D-1 FOR DETAILS

VOLTA L2 AC CHARGING STATION
#05 CONCRETE FOUNDATION ON
EXISTING LANDSCAPED ISLAND
SEE SHEET D-1 FOR DETAILS

NON-TRAFFIC RATED
JUNCTION BOX "JB-04"

SCOPE OF WORK

DISCLAIMER
THESE DRAWINGS WERE PRODUCED WITHOUT THE BENEFIT OF A CURRENT LAND SURVEY. ALL PROPERTY LINES, EASEMENTS, AND SETBACKS SHALL BE VERIFIED PRIOR TO START OF CONSTRUCTION. VOLTA DOES NOT GUARANTEE THE ACCURACY OF SAID PROPERTY LINES, EASEMENTS, ROADS AND SETBACKS.

CONSTRUCTION NOTES:

1. CONTRACTOR RESPONSIBILITIES INCLUDE CHARGING STATION MOUNTING, OVERHEAD/UNDERGROUND CONDUIT INSTALLATION, AND WIRING.
2. CONTRACTOR TO PAINT PROPOSED EV PARKING SPACES PER JURISDICTIONAL REQUIREMENTS.
3. CONTRACTOR TO FIELD SCAN/XRAY EXISTING CONCRETE SLAB TO ENSURE NO REINFORCEMENT IS DAMAGED DURING EQUIPMENT OR CONDUIT ANCHORING, ENSURE 1" GAP MIN. BETWEEN REBAR AND ANCHORAGE.
4. EXACT STATION PLACEMENT AND ROTATION ANGLE MAY VARY SLIGHTLY UPON INSTALLATION DEPENDING ON SITE CONDITIONS.
5. ANY LANDSCAPING OR IRRIGATION THAT IS DISTURBED MUST BE REPLACED OR PREPARED IMMEDIATELY UPON COMPLETION OF INSTALLATION.

ABOVE SPACE RESERVED FOR CITY USE ONLY



REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

AMP ENGINEERING
FIRM: F-24435
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
(281)827-9490
www.amp-engineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

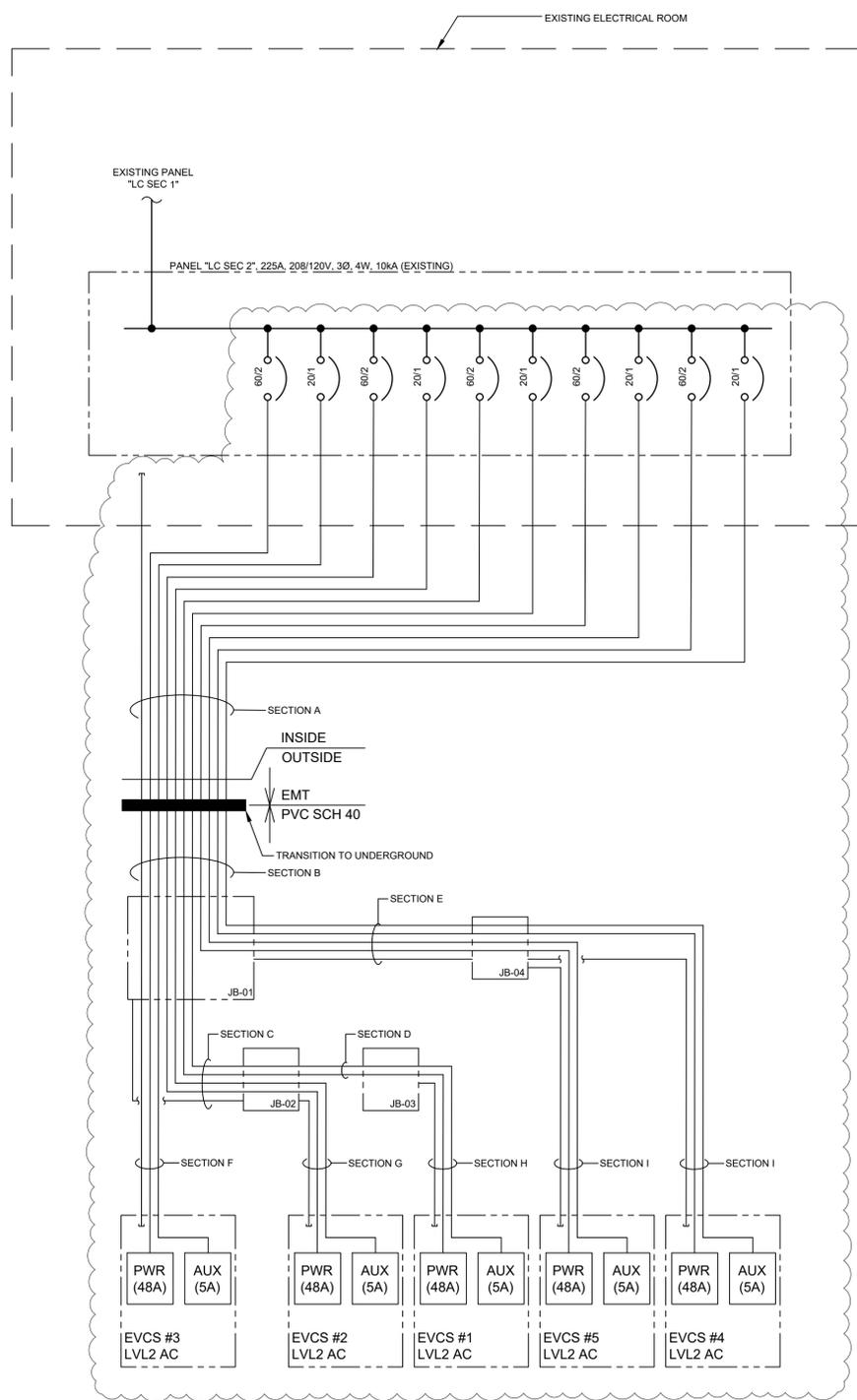
STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

SHEET TITLE
**SITE PLAN
EVCS #05**

SHEET NUMBER
C-4

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

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



ELECTRICAL ONE-LINE

STARCENTER MANFIELD 1715 E. BROAD ST. MANSFIELD, TX 76063										PANELBOARD										
REMARKS: 1. SURFACE MOUNTED INSIDE 2. NEMA 3										225 AMP MID 208 VOLT P-P 3 PHASE 4 WIRE										
C PH (AMP)	B PH (AMP)	A PH (AMP)	N (AMP)	LOAD (VA)	TYPE	DESCRIPTION	WIRE	CKT BKR (AMP / P)	NO	NO	CKT BKR (AMP / P)	WIRE	DESCRIPTION	TYPE	LOAD (VA)	N (AMP)	A PH (AMP)	B PH (AMP)	C PH (AMP)	
						FIRE ALARM AMP		20A / 1P	43	44	20A / 1P		TELEPHONE EQUIPMENT RECEPTACLES							
						FIRE ALARM POWER		20A / 1P	45	46	20A / 1P		TELEPHONE EQUIPMENT RECEPTACLES							
						HAND DRYER ROOM 124		20A / 1P	47	48	20A / 1P		LOBBY RECEPTACLES							
						HAND DRYER ROOM 122E		20A / 1P	49	50			WATER HEATER							
						HAND DRYER ROOM 122W		20A / 1P	51	52	100A/3P		WATER HEATER							
						HAND DRYER ROOM 121E		20A / 1P	53	54			WATER HEATER							
						HAND DRYER ROOM 121 W		20A / 1P	55	56	20A / 1P		WOMEN HAND DRYER							
						HAND DRYER ROOM 112		20A / 1P	57	58	20A / 1P		FIRE ALARM							
						FIRE COMMUNICATOR		20A / 1P	59	60	20A/70V									
						CHIEF OFFICERS PANEL		20A/12	61	62	20A / 1P	#6 AWG	VOLTA #1 MEDIA AUX POWER	MC	600	5	5			
						VOLTA #1 EVCS POWER	#1 AWG	60A / 2P	63	64	20A / 1P	#6 AWG	VOLTA #2 MEDIA AUX POWER	MC	600	5	5	5		
						VOLTA #2 EVCS POWER	#1 AWG	60A / 2P	65	66	20A / 1P	#6 AWG	VOLTA #3 MEDIA AUX POWER	MC	600	5	5		5	
						VOLTA #3 EVCS POWER	#1 AWG	60A / 2P	67	68	20A / 1P	#6 AWG	VOLTA #4 MEDIA AUX POWER	MC	600	5	5			5
						VOLTA #4 EVCS POWER	#1 AWG	60A / 2P	69	70	20A / 1P	#6 AWG	VOLTA #5 MEDIA AUX POWER	MC	600	5	5			5
						VOLTA #5 EVCS POWER	#1 AWG	60A / 2P	71	72	60A / 2P	#1 AWG		MC	10000					48
						VOLTA #6 EVCS POWER	#1 AWG	60A / 2P	73	74										
						VOLTA #7 EVCS POWER	#1 AWG	60A / 2P	75	76										
						VOLTA #8 EVCS POWER	#1 AWG	60A / 2P	77	78										
						VOLTA #9 EVCS POWER	#1 AWG	60A / 2P	79	80										
						VOLTA #10 EVCS POWER	#1 AWG	60A / 2P	81	82										
						VOLTA #11 EVCS POWER	#1 AWG	60A / 2P	83	84										

EXISTING DEMAND (KVA): 8.0
 NEW CONNECTED LOAD (KVA): 53.0
 TOTAL NEC ADJUSTED DEMAND (KVA): 61.0

ELECTRICAL PANEL SCHEDULE

SECTION ID	SECTION VIEW	SECTIONS AG / UG	INSTALLATION METHOD	EQUIPMENT FROM	EQUIPMENT TO	CONDUIT		CONDUCTORS									
						IDENT	SIZE	TYPE	ALLOWABLE FILL (IN ²)	ACTUAL FILL (IN ²)	QTY	SIZE	DESCRIPTION	DERATE FACTOR ¹	ADJUSTED AMPACITY ¹¹		
A		AG	OVERHEAD CEILING/FIELD ROUTE	EXISTING PANEL "LC SEC 2"	START OF BORE/TRANSITION FROM EMT TO PVC	1	2 1/2"	EMT	2.34	1.5486	6	#1 AWG	208V, 3PH POWER	0.5	65 A		
						2	2 1/2"	EMT	2.34	1.0324	4	#1 AWG	120V, 1PH POWER	0.5	32.5 A		
						3	1"	EMT	-	-	3	#4 AWG	GROUND	-	-		
B		UG	DIRECTIONAL BORE	START OF BORE/TRANSITION FROM EMT TO PVC	IN-GROUND J-BOX "JB-01"	4	2 1/2"	PVC SCH40	1.88	1.5486	6	#1 AWG	208V, 3PH POWER	0.5	65 A		
						5	2 1/2"	PVC SCH40	1.88	1.0324	4	#1 AWG	120V, 1PH POWER	0.5	32.5 A		
						6	1"	EMT	-	-	3	#4 AWG	GROUND	-	-		
C		UG	DIRECTIONAL BORE	IN-GROUND J-BOX "JB-01"	IN-GROUND J-BOX "JB-02"	7	2"	PVC SCH40	1.32	1.0324	4	#1 AWG	208V, 3PH POWER	0.8	104 A		
						8	1"	PVC SCH40	-	-	2	#4 AWG	GROUND	-	-		
						9	2"	PVC SCH40	1.32	0.5162	2	#1 AWG	208V, 3PH POWER	1	130 A		
D		UG	DIRECTIONAL BORE	IN-GROUND J-BOX "JB-02"	IN-GROUND J-BOX "JB-03"	10	1"	PVC SCH40	-	-	4	#1 AWG	208V, 3PH POWER	0.8	104 A		
						11	2"	PVC SCH40	1.32	1.0324	4	#1 AWG	120V, 1PH POWER	0.8	52 A		
						12	1"	PVC SCH40	-	-	2	#4 AWG	GROUND	-	-		
E		UG	DIRECTIONAL BORE	IN-GROUND J-BOX "JB-01"	IN-GROUND J-BOX "JB-04"	13	2"	PVC SCH40	1.32	0.5162	2	#1 AWG	208V, 3PH POWER	0.8	104 A		
						14	1"	PVC SCH40	-	-	2	#4 AWG	GROUND	-	-		
						15	2"	PVC SCH40	1.32	0.5162	2	#1 AWG	208V, 3PH POWER	0.8	104 A		
F		UG	TRENCH	IN-GROUND J-BOX "JB-01"	EVCS #3	16	1"	PVC SCH40	-	-	2	#1 AWG	208V, 3PH POWER	0.8	104 A		
						17	2"	PVC SCH40	1.32	0.5162	2	#1 AWG	120V, 1PH POWER	0.8	52 A		
						18	1"	PVC SCH40	-	-	1	#4 AWG	GROUND	-	-		
G		UG	TRENCH	IN-GROUND J-BOX "JB-02"	EVCS #2	19	2"	PVC SCH40	1.32	0.5162	2	#1 AWG	208V, 3PH POWER	0.8	104 A		
						20	1"	PVC SCH40	-	-	2	#4 AWG	GROUND	-	-		
						21	2"	PVC SCH40	1.32	0.5162	2	#1 AWG	120V, 1PH POWER	0.8	52 A		
H		UG	TRENCH	IN-GROUND J-BOX "JB-03"	EVCS #1	22	1"	PVC SCH40	-	-	2	#1 AWG	208V, 3PH POWER	0.8	104 A		
						23	2"	PVC SCH40	1.32	0.5162	2	#1 AWG	120V, 1PH POWER	0.8	52 A		
						24	1"	PVC SCH40	-	-	1	#4 AWG	GROUND	-	-		
I		UG	TRENCH	IN-GROUND J-BOX "JB-04"	EVCS #4 & #5	25	2"	PVC SCH40	1.32	#N/A	2	#1 AWG	208V, 3PH POWER	0.8	104 A		
						26	2"	PVC SCH40	1.32	#N/A	2	#1 AWG	120V, 1PH POWER	0.8	#N/A		
						27	1"	PVC SCH40	-	-	1	#4 AWG	GROUND	-	-		

¹CONDUCTORS DERATED PER NEC TABLE 310.15(B)(3)(a)
¹¹BASED ON NEC TABLE 310.15(B)(16) FOR 75°C RATED COPPER CONDUCTORS
¹²BASED ON NEC TABLE 310.15(B)(16) FOR 75°C RATED ALUMINUM CONDUCTORS.

Volta Minimum Conductor Size by Circuit Length										
Level 2 Conductor Voltage Drop Table Per Charging Station										
<150FT	150FT - 175FT	175FT - 240FT	240FT - 275FT	275FT - 305FT	305FT - 383FT	385FT - 440FT	440FT - 485FT	485FT - 610FT	610FT - 700FT	700FT - 770FT
(2) #6 AWG+	(2) #4 AWG+	(2) #4 AWG+	(2) #3 AWG+	(2) #3 AWG+	(2) #2 AWG+	(2) #1 AWG+	(2) #1 AWG+	(2) #1/0 AWG+	(2) #2/0 AWG+	(2) #2/0 AWG+
(2) #12 AWG+	(2) #12 AWG+	(2) #10 AWG+	(2) #10 AWG+	(2) #8 AWG+	(2) #8 AWG+	(2) #8 AWG+	(2) #6 AWG+	(2) #6 AWG+	(2) #6 AWG+	(2) #4 AWG+
(1) #10 AWG GND	(1) #6 AWG GND	(1) #6 AWG GND	(1) #6 AWG GND	(1) #6 AWG GND	(1) #4 AWG GND	(1) #4 AWG GND	(1) #4 AWG GND	(1) #3 AWG GND	(1) #2 AWG GND	(1) #2 AWG GND

CONDUIT SCHEDULE

SCOPE OF WORK

- NOTES:
1. A NATIONALLY RECOGNIZED TESTING LABORATORY SHALL LIST ALL EQUIPMENT IN COMPLIANCE WITH ART 110.3.
 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 ELECTRIC GROUNDING DEVICES.
 6. CHARGING UNITS ARE EQUIPPED WITH AN INTEGRATED CONTACTOR 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 CONTRACT THE ENGINEERING TEAM IMMEDIATELY IF BREAKER IS FOUND TO BE INSUFFICIENT.
 8. 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.
 9. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
 10. CONDUIT PATHS ARE REPRESENTATIVE ONLY. EXACT CONDUIT PLACEMENT TO BE DETERMINED ON SITE BASED ON FIELD CONDITIONS.
 11. CONTRACTOR SHALL INSTALL PULL STRING IN ALL CONDUITS.
 12. CONDUITS SHALL MATCH EXISTING PAINT SCHEME OF EXISTING CONDUITS AND/OR PIPES.
 13. CONDUITS SHALL BE PAINTED TO MATCH BUILDING COLORS WHERE CUSTOMER REQUESTS.

- 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

ABOVE SPACE RESERVED FOR CITY USE ONLY



REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

FIRM: F-24435
 21406 REFUGEE CREEK DR.
 CYPRESS, TX 77433
 (281)827-9490
 www.amp-engineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

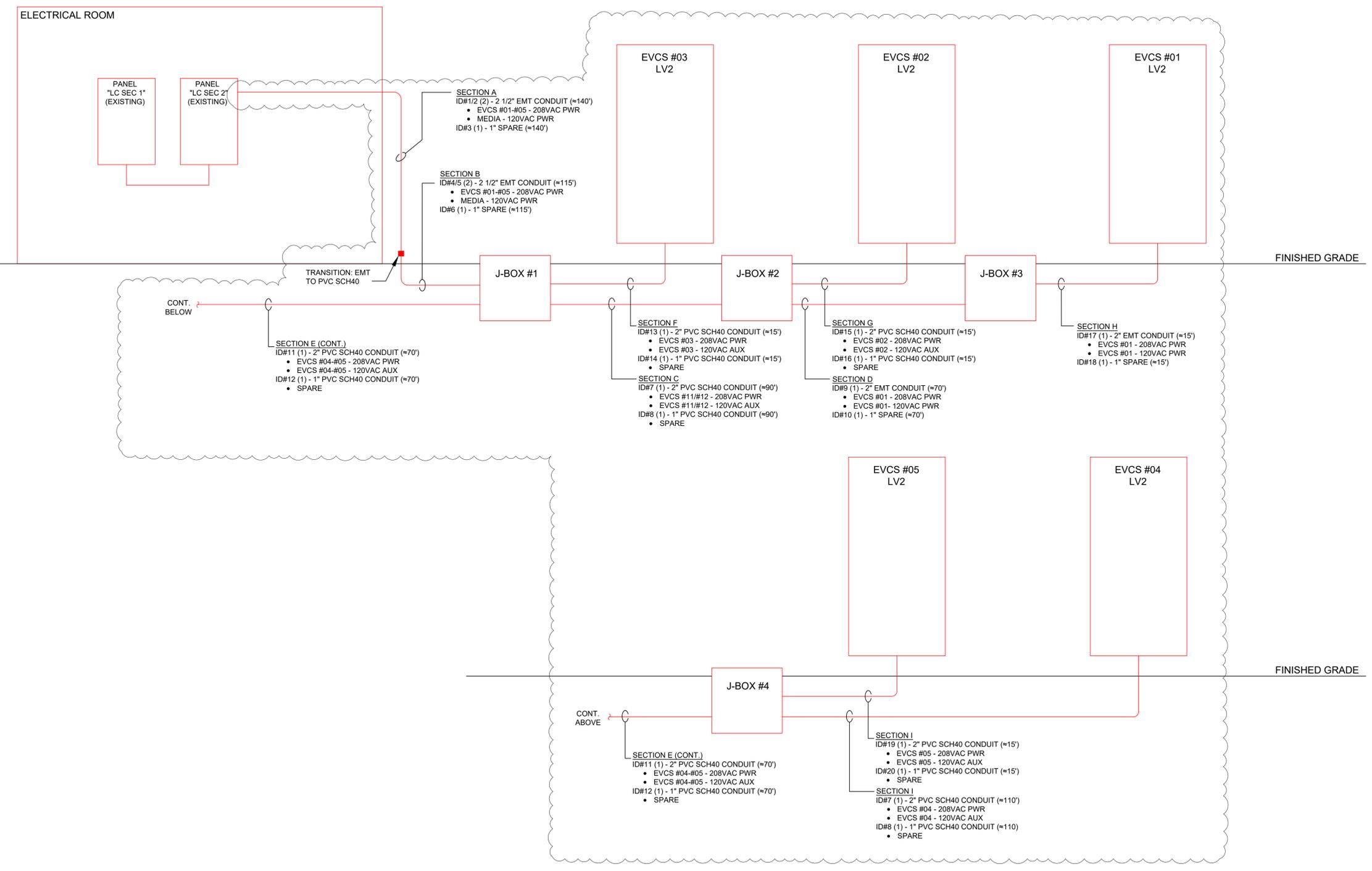
STARCENTER
 1715 E. BROAD ST.
 MANSFIELD, TX 76063

SHEET TITLE
ELECTRICAL SPECIFICATIONS

SHEET NUMBER
E-1

EVCS CONDUIT ROUTING PLAN

SCOPE OF WORK



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

- NOTES:**
1. CONTRACTOR SHALL INSTALL PULL STRING IN ALL CONDUITS
 2. CONDUITS SHALL MATCH EXISTING PAINT SCHEME OF EXISTING CONDUITS AND/OR PIPES
 3. CONDUITS SHALL BE PAINTED TO MATCH BUILDING COLORS WHERE CUSTOMER REQUEST
 4. CONTRACTOR SHALL ADD JUNCTION BOX OUTSIDE OF EVCS STATION IF WIRE SIZE NEEDS TO DROP. POLARIS TAPS SHALL BE USED AND WIRE SIZE SHALL BE DROPPED TO MEET MINIMUM CIRCUIT AMPACITY REQUIREMENTS FOR LOAD.

ABOVE SPACE RESERVED FOR CITY USE ONLY

155 DE HARO STREET
SAN FRANCISCO, CA 94103

REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

FIRM: F-24435
21406 REFUGE CREEK DR.
CYPRESS, TX 77433
(281)827-9490
www.amp-engineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

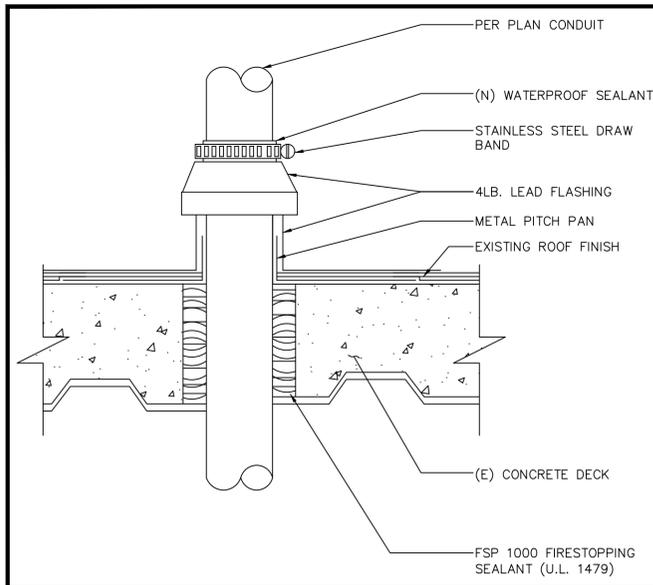
STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

SHEET TITLE

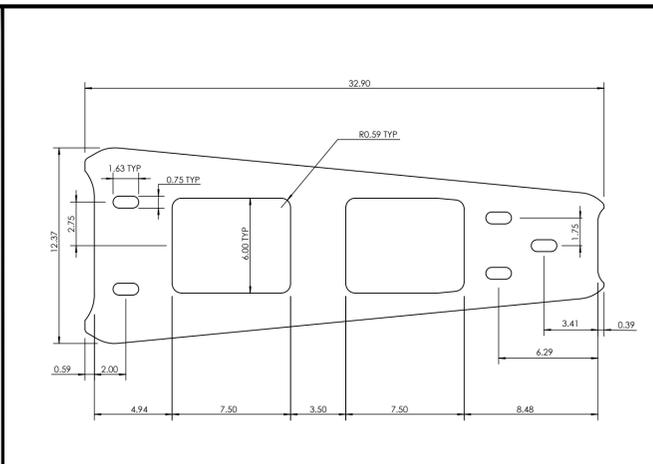
CONDUIT PLAN

SHEET NUMBER

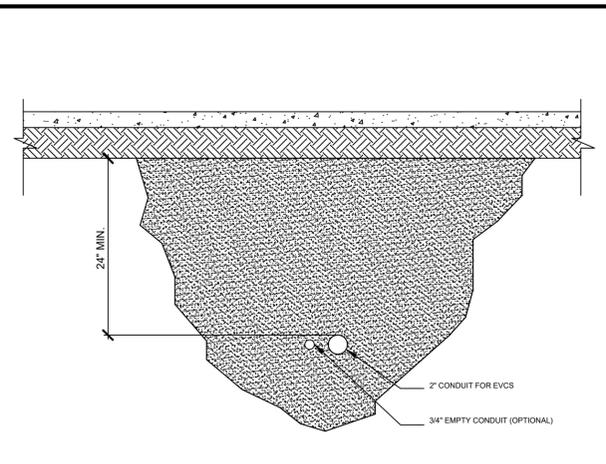
E-2



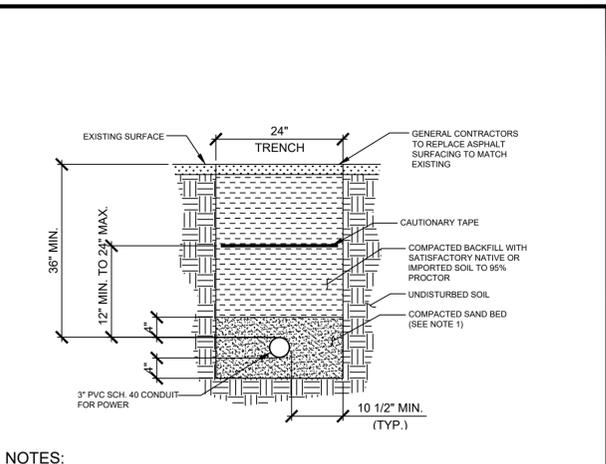
CORE DETAIL SCALE N.T.S. 1



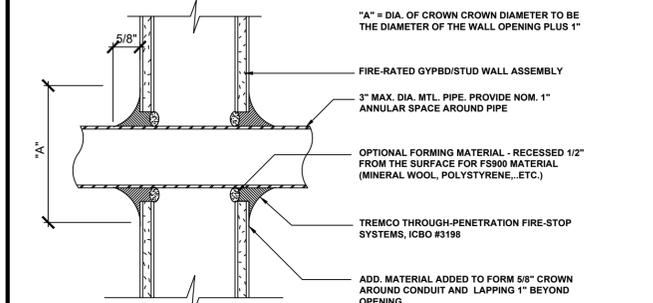
STATION BASE PLATE SCALE N.T.S. 2



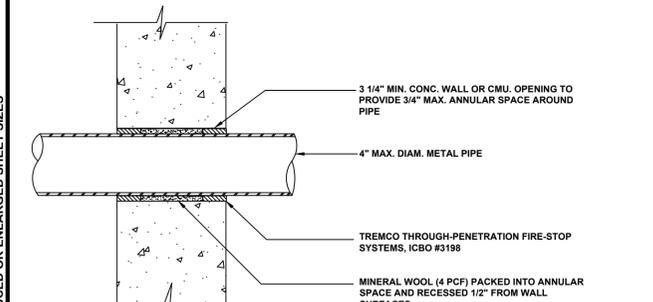
BORE SECTION DETAIL SCALE N.T.S. 3



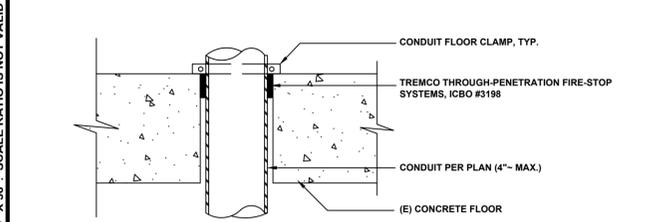
POWER TRENCH SCALE N.T.S. 4



FRAMED WALL PENETRATION



CONCRETE WALL PENETRATION



CONCRETE FLOOR PENETRATION

NOTES:

NOTE: 1. CONTRACTOR TO X-RAY PRIOR TO DRILLING OR CORING TO LOCATE (E) RE-BAR. DO NOT CUT RE-BAR.

2. PENETRATIONS THRU WALLS SHALL COMPLY WITH T24, CBC SECTION 709.6.

F RATING - PENETRATIONS 4" - OR LESS

T RATING - PENETRATIONS LARGER THAN 4" - PENETRATIONS @ CORRIDOR CLGS. WHICH ARE NOT RATED, BELOW

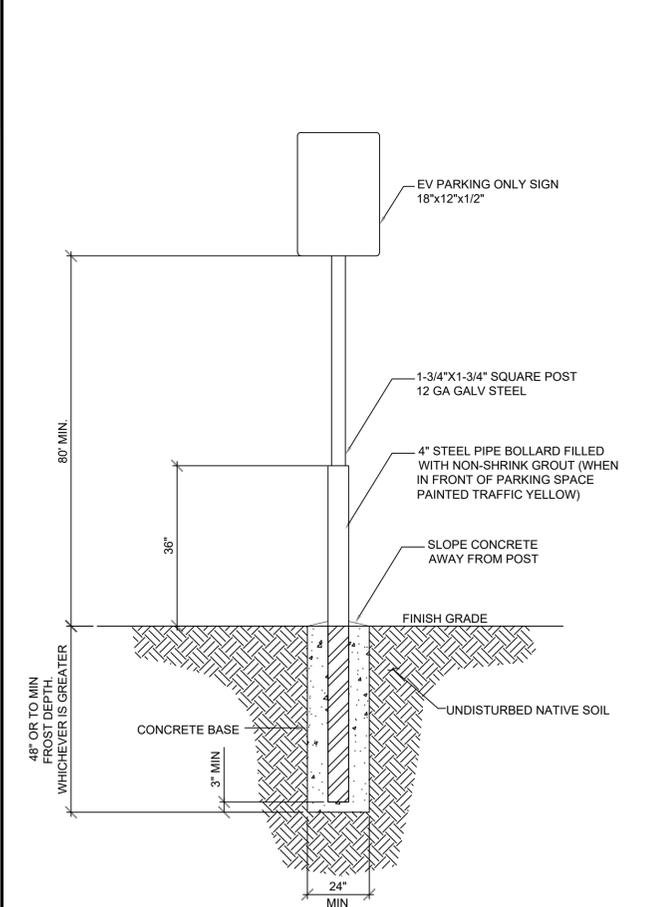
3. PENETRATIONS THRU FLOORS/ CEILINGS SHALL COMPLY WITH T24, CBC SECTION 710.3.

F RATING - PENETRATIONS 4" - OR LESS

T RATING - PENETRATIONS LARGER THAN 4" - PENETRATIONS NOT CONTAINED WITHIN A WALL.

4. ALL PENETRATIONS SHALL CONFORM TO TITLE 24, CALIF. BLDG. CODE, SECTION 714.

PENETRATION DETAIL SCALE N.T.S. 6



NOTES:

1. SIGN TO BE GREEN (PANTONE 355C) WITH WHITE REFLECTIVE LETTERING.

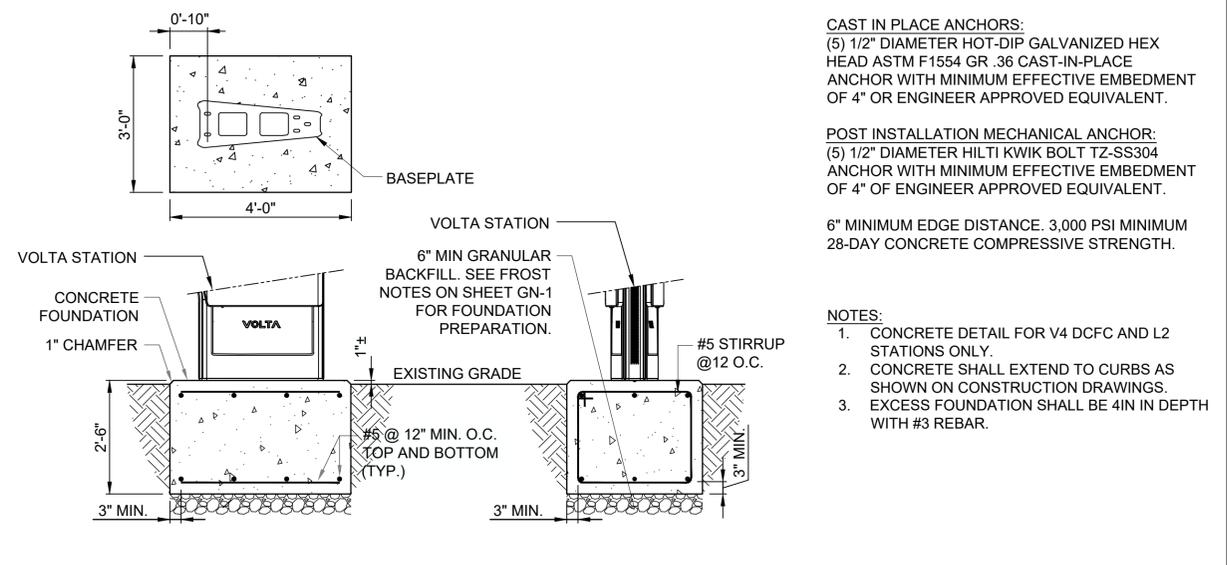
2. TO BE PLACED AT HEAD OF PARKING STALL.

3. POST MOUNTED OBJECTS PER SECTION 11B-307.3.

4. THIS DETAIL SHALL BE USED WHEN SIGN POST IS LOCATED IN PARKING LOT PAVEMENT OR WITHIN 2' OF CAR OVERHANG ZONE.

5. REFER TO NOTES FOR ASSUMED GEOTECHNICAL PARAMETERS. THIS SIGN DESIGN ASSUMES ASME 7-10 WIND SPEED 115 MPH AND AN EXPOSURE CATEGORY B. IF EITHER OF THESE GEOTECHNICAL PROPERTIES OR ASME 7-10 WIND PARAMETERS DIFFER BASED ON LOCATION THE DESIGN MUST BE UPDATED BY A STRUCTURAL ENGINEER.

BOLLARD SIGN POST SCALE N.T.S. 7



CONCRETE FOOTING SECTION (WHEN USED) SCALE N.T.S. 5

NOTES:

1. UNLESS NOTED OTHERWISE, THE FOLLOWING NOTES RELATING TO THIS SHEETS D-1 & D-2 SHALL GOVERN.

2. REFERENCE CIVIL AND ELECTRICAL DRAWINGS FOR EQUIPMENT LAYOUT, LOCATION OF CONDUIT, ETC.

3. BEFORE STARTING ANY WORK, CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON THE SITE AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER.

4. NO GEOTECHNICAL ENGINEERING REPORT WAS PROVIDED BY THE OWNER. FOUNDATION DESIGN IS BASED ON MINIMUM OF 1,500 PSF NET ALLOWABLE BEARING PRESSURE ON UNDISTURBED NATURAL SOIL OR COMPACTED FILL.

5. UNLESS OTHERWISE DIRECTED BY THE OWNER, ALL FOUNDATION WORK RELATED TO INSTALLATION OF REBAR SHALL BE INSPECTED BY OTHERS.

6. DESIGN IS BASED ON THE SPECIFIC EQUIPMENT SHOWN IN THESE DRAWINGS AND ILLUSTRATED ON THE VOLTA CUT SHEETS.

ABOVE SPACE RESERVED FOR CITY USE ONLY

155 DE HARO STREET
SAN FRANCISCO, CA 94103

REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION

FIRM: F-24435
21406 REFUGEE CREEK DR.
CYPRESS, TX 77433
(281)827-9490
www.amp-engineering.com

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

STARCENTER
1715 E. BROAD ST.
MANSFIELD, TX 76063

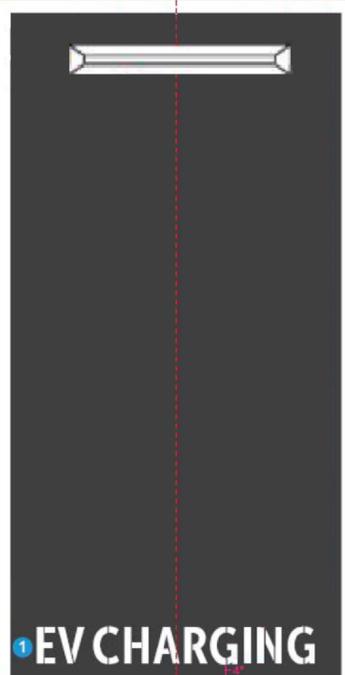
SHEET TITLE
DETAILS

SHEET NUMBER
D-1

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

Volta Charging
STRIPING GUIDELINES

PRODUCTS
 Cement Background: Benjamin Moore Floor & Patio Battleship Blue N122 - 2X 51 2x 30.0 B11x 0.0 G1 0x 30.0
 Asphalt Background: Latex-ite 4.75 Gal. Ultra Shield Driveway Filler/Sealer
 Traffic Paint: Sherwin Williams TM2153 LF Yellow TTP-1952D, TM2152 White TTP-1952D



*Mock up to scale 9'x18' stall.

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 resealed with sealcoat. All backgrounds must run edge-to-edge across the entire parking space.

STRIPING

1. LETTERS Place centered, 4 inches from the bottom of the stall.

CURBS No need to paint the curbs unless they are painted an existing or conflicting color. If this is the case, paint the curb white.

WHEEL BLOCKS Should be centered within the stall. Wheel Blocks should be painted white.

ACCESS AISLE Should be painted white.

NOTES:
 1. STENCILS WILL BE PROVIDED BY VOLTA

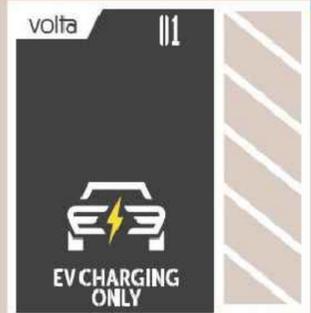
EV STRIPING GUIDELINES

SCALE
N.T.S. 1

STRIPING GUIDELINES



*Mock up to scale 8'x14' stall.



*Mock up to scale 12'x18' stall with 5' access aisle.

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

6. WHEEL BLOCKS Place 8 inches above the Volta logo, centered within the stall. Wheel Blocks should be painted white.

7. ACCESS AISLE Should be painted white.

CURBS No need to paint the curbs unless they are painted an existing or conflicting color. If this is the case, paint the curb white.

NOTES:
 1. STENCILS WILL BE PROVIDED BY VOLTA

EV STRIPING GUIDELINES

SCALE
N.T.S. 2

STRIPING GUIDELINES



*Mock up to scale 8'x14' stall at 45° angle.

NOT USED

DIAGONAL STALLS

1. SHAPE (SEE PAGE 1) Omit in diagonal spaces.

2. VOLTA LOGO (WHITE) 6 inches from the top line at the same angle as the stall lines.

3. 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)

4. LETTERS Place centered, 4 inches from the bottom of the stall according to the top line with 2.5 inches between the 2 lines.

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

6. WHEEL BLOCKS Place 8 inches above the Volta logo in the same angle as the stall lines. Center according to the space left in angled area. Wheel Blocks should be painted white.

NOTES:
 1. STENCILS WILL BE PROVIDED BY VOLTA

EV STRIPING GUIDELINES

SCALE
N.T.S. 3

ABOVE SPACE RESERVED FOR CITY USE ONLY



REV	DATE	DESCRIPTION	BY
A	09/14/2023	ISSUED FOR CONSTRUCTION	JCH

ISSUE DATE
09/14/2023

ISSUED FOR
CONSTRUCTION



FIRM: F-24435
 21406 REFUGE CREEK DR.
 CYPRESS, TX 77433
 (281)827-9490
 www.amp-engineering.com



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT AND/OR ENGINEER, TO ALTER THIS DOCUMENT.

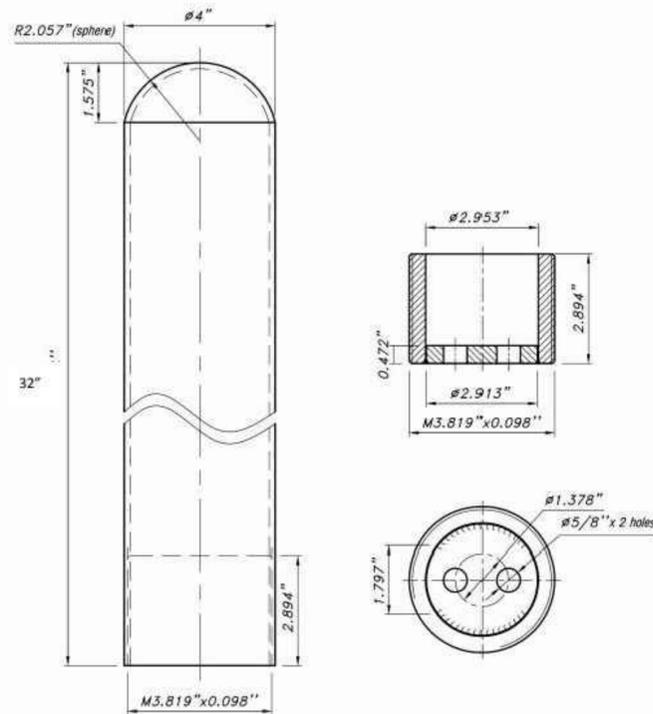
STARCENTER
 1715 E. BROAD ST.
 MANSFIELD, TX 76063

SHEET TITLE

DETAILS

SHEET NUMBER

D-2



FEATURES:

Threaded-two bolt application allows for quick installation and/or replacement (if necessary)

- No exposed hardware
- Stainless, Galvanized, or Powder Coated Steel finish
- Blends with any décor
- Easy to clean
- Non-rusting
- Patented

BOLLARD DETAIL

SCALE
N.T.S. 4

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