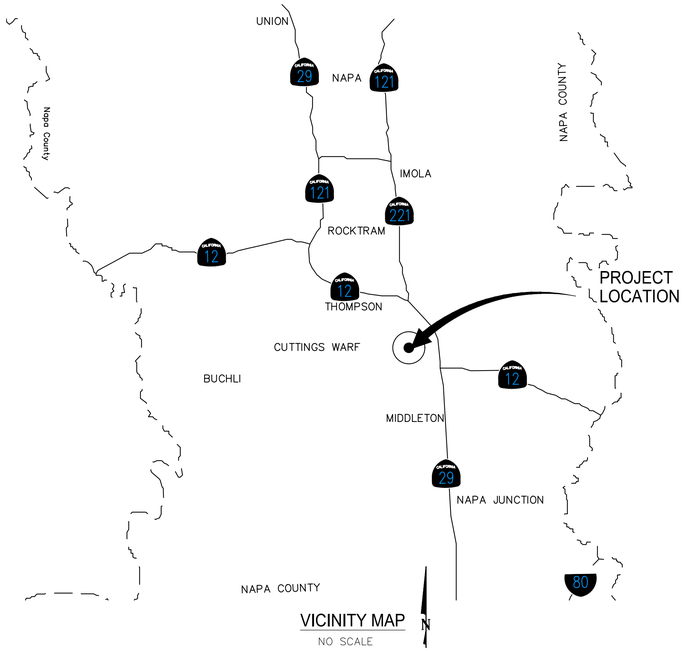
VINE TRANSIT OPERATIONS FACILITY

EV CHARGERS AT BUS MAINTENANCE FACILITY
96 SHEEHY COURT, NAPA, CA

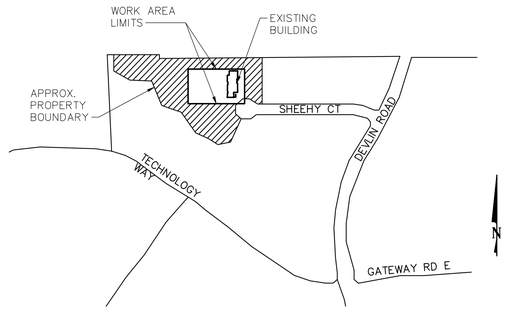
100% PLANS
MARCH 2025



VICINITY MAP
NO SCALE

96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

CONSTRUCTION TYPE: CIVIL
USE & OCCUPANCY: N/A



LOCATION MAP
NO SCALE

CONSULTANT

TYLin
1111 Broadway, #2150
Oakland, CA 94607
(510) 457-3030

Lead Engineer: Mir Alikhan
1111 Broadway, #2150
Oakland, CA 94607
(510) 457-3030
Mir.Alikhan@TYLin.com

OWNER

Napa Valley Transit Authority
625 Burnell St
Napa, CA 94559
Ph: (707) 259-8631

DRAFT - NOT FOR CONSTRUCTION

NO	REVISION / SUBMISSION	DATE
2	COUNTY OF NAPA - SUBMITTAL 3	3/17/25
1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

		DATE
DESIGNED BY	BUCZEK, N.	3/17/25
DRAWN BY	WOO, A.	3/17/25
CHECKED BY	BUCZEK, N.	3/17/25
IN CHARGE	ALIKHAN, M.	3/17/25

REGISTERED PROFESSIONAL ENGINEER
MIR S. ALIKHAN
No. C84203
Exp. 9-30-25
CIVIL
STATE OF CALIFORNIA

SCALE
HORIZONTAL
N/A
VERTICAL
N/A

NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY
625 BURNELL ST, NAPA, CA 94559

TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY
96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

TITLE PAGE

DRAWING NO.
G-01
SHEET NO.
1 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY

GENERAL		
SHEET NO.	DWG NO.	SHEET NAME
1	G-01	TITLE PAGE
2	G-02	SHEET INDEX & NOTES
3	G-03	GENERAL ABBREVIATIONS, SYMBOLS, & LEGENDS

CIVIL		
SHEET NO.	DWG NO.	SHEET NAME
4	C-01	OVERALL SITE PLAN
5	C-02	SITE PLAN
6	C-03	CIVIL DETAILS – 1
7	C-04	CIVIL DETAILS – 2

ELECTRICAL		
SHEET NO.	DWG NO.	SHEET NAME
8	E-01	ELECTRICAL SITE PLAN
9	E-02	ELECTRICAL DETAILS – 1
10	E-03	ELECTRICAL DETAILS – 2

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS PRIOR TO STARTING WORK. SHOULD CONTRACTOR OR SUBCONTRACTOR FIND ANY DEFICIENCIES, DISCREPANCIES, ERRORS, CONFLICTS, INCONSISTENCIES OR OMISSIONS IN THESE PLANS AND SPECIFICATIONS OR SHOULD THEY BE IN DOUBT AS TO THEIR MEANING OR INTENT, THEY SHALL NOTIFY THE ENGINEER FOR A WRITTEN CLARIFICATION, ADDENDUM, ETC. SHOULD THEY FAIL TO DO SO BEFORE SUBMITTING A PROPOSAL THEY CANNOT CLAIM ADDITIONAL COMPENSATION FOR WORK REQUIRED TO COMPLETE THE PROJECT.
2. ALL WORKMANSHIP AND MATERIALS FOR BOTH ON-SITE AND OFF-SITE IMPROVEMENTS SHALL CONFORM TO THE ADOPTED NAPA COUNTY ROAD AND STREET STANDARDS (REVISED NOVEMBER 22, 2016) OR LATEST EDITION, AND/OR THE LATEST EDITION OF CITY OF NAPA PUBLIC WORKS STANDARD PLANS AND SPECIFICATIONS, AND/OR THE LATEST EDITION OF CALTRANS STANDARD SPECIFICATIONS AND STANDARD PLANS, AND/OR THE LATEST EDITION OF THE CBC, CFC, CGBS, CPC, AND CRC. THE ON-SITE IMPROVEMENTS SHALL BE INSPECTED BY THE COUNTY OF NAPA PLANNING, BUILDING AND ENVIRONMENTAL (PBES) DEPARTMENT INSPECTOR.
3. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL SECURE CONSTRUCTION PERMITS FROM THE COUNTY OF NAPA AND OTHER AGENCIES AS NECESSARY AND PAY ALL FEES THEREOF.
4. CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR BEING FAMILIAR WITH THE PROVISIONS AND REQUIREMENTS CONTAINED IN THE COUNTY STANDARD SPECIFICATIONS. CONTRACTOR SHALL HAVE A COPY AVAILABLE AT THE JOB SITE AT ALL TIMES.
5. CONTRACTOR SHALL CONTACT THE COUNTY OF NAPA PBES DEPARTMENT TO ARRANGE A PRE-PROJECT CONFERENCE FOR THE PURPOSE OF REVIEWING JOB REQUIREMENTS AND COUNTY PROCEDURES.
6. CONTRACTOR SHALL NOTIFY THE COUNTY OF NAPA PBES DEPARTMENT AT LEAST 72 HOURS IN ADVANCE OF THE COMMENCEMENT OF ANY PART OF THE WORK.
7. CONTRACTOR SHALL NOTIFY ALL PUBLIC OR PRIVATE UTILITY COMPANIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK ADJACENT TO EXISTING UTILITY LINE UNLESS ENCROACHMENT PERMIT SPECIFIES OTHERWISE. THE FOLLOWING ARE POSSIBLE OWNERS OF UTILITIES OR STRUCTURES TO CALL FOR VERIFICATION AND LOCATION:

UNDERGROUND SERVICE ALERT	811
SEWER: NAPA SANITATION DISTRICT	(707) 258-6000
POTABLE WATER: AMERICAN CANYON WATER	(707) 647-4364
GAS: PACIFIC GAS & ELECTRIC	(800) 468-4743
PHONE: AT&T	(707) 258-3779
CABLE: AT&T	(707) 258-3779
RECLAIMED WATER: NAPA SANITATION DISTRICT	(707) 258-6000

8. CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE VERIFICATION OF LOCATIONS FOR ALL EXISTING UTILITIES IN THE FIELD. LOCATIONS OF UTILITIES AND UNDERGROUND FACILITIES SHOWN ARE APPROXIMATE AND FOR GENERAL INFORMATION ONLY. CONTRACTOR SHALL COORDINATE ALL NECESSARY UTILITY RELOCATIONS, IF REQUIRED, WITH THE APPROPRIATE UTILITY COMPANIES.
9. CONTRACTOR SHALL LOCATE EXISTING IRRIGATION PIPING, AND OTHER UNDERGROUND FACILITIES AS NECESSARY TO COMPLETE THE IMPROVEMENTS. CONTRACTOR SHALL HAVE THE EXISTING CONDUITS AND CABLES MARKED OUT BY CABLE PIPE AND LEAK DETECTION OR ANOTHER APPROVED CONTRACTOR. ANY WORK ON THE UNDERGROUND FACILITIES SHALL BE COORDINATED WITH THE RESIDENT ENGINEER. CONTRACTOR SHALL SCHEDULE MEETING AND CONTACT ALL ATTENDEES A MINIMUM OF 48 HOURS IN ADVANCE OF THE MEETING DATE. MEETING ATTENDEES SHALL INCLUDE NVTA'S PROJECT MANAGER, TRANSDEV'S PROJECT MANAGER, THE CONTRACTOR'S REPRESENTATIVE AND CABLE PIPE AND LEAK DETECTION STAFF OR OTHER APPROVED MARKOUT CONTRACTOR.
10. IMPORTANT NOTICE: SECTIONS 4216/4217 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER CALL UNDERGROUND SERVICE ALERT TOLL-FREE 1-800-422-4133 TWO WORKING DAYS BEFORE YOU DIG.
11. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNERS AND THE ENGINEER HARMLESS FROM ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THE PROJECT; EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNERS OR THE ENGINEER. CONTRACTOR SHALL, AT HIS OWN EXPENSE, DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING AND BRACING AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY, AIR QUALITY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
12. CONTRACTOR SHALL CONFORM TO EXISTING ROADS, SURROUNDING LANDSCAPE AND OTHER IMPROVEMENTS WITH A SMOOTH TRANSITION IN PAVING, CURBS, GUTTERS, SIDEWALKS, GRADING, ETC. AND TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES OR CROSS SLOPES, LOW SPOTS OR HAZARDOUS CONDITIONS.
13. ALL STATIONS (SHOWN ON PLAN AND PROFILE) ARE TAKEN ALONG CENTERLINE UNLESS OTHERWISE NOTED ON PLAN, AND SHOW MEASUREMENTS IN A HORIZONTAL PLANE.
14. IF THERE IS A CONFLICT BETWEEN WRITTEN AND SCALED DIMENSIONS, NOTIFY THE ENGINEER AND OBTAIN A CLARIFICATION. NO DEVIATIONS OR SUBSTITUTIONS SHALL BE ALLOWED WITHOUT OBTAINING WRITTEN APPROVAL FROM THE ENGINEER.
15. NOTES AND DETAILS ON THE DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
16. WHERE NO CONSTRUCTION DETAILS ARE SHOWN OR NOTED FOR ANY PART OF THE WORK, THE DETAILS SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
17. FADED BACKGROUND REPRESENTS TOPOGRAPHIC FEATURES.
18. PROJECT SPECIFICATIONS SHALL BE PART OF THE CONTRACT DOCUMENTS.
19. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED CONDITION. UNLESS OTHERWISE INDICATED, THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION.
20. ALL MATERIAL SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
21. CONTRACTOR SHALL LEGALLY DISPOSE OF EXPORT MATERIAL AND DEMOLISHED MATERIAL.
22. PRIOR TO FINAL INSPECTION BY THE BUILDING DEPARTMENT AND PRIOR TO THE ISSUANCE OF THE CERTIFICATE OF OCCUPANCY, A FINAL INSPECTION OF THE PROJECT TO CONFIRM ALL CONDITIONS OF APPROVAL HAVE BEEN MET IS REQUIRED. REFER TO THE STORM WATER BUILDING PERMIT REQUIREMENTS FOR DETAILS.

DEMOLITION NOTES

1. PRIOR TO BEGINNING OF DEMOLITION WORK, CONTRACTOR/APPLICANT SHALL OBTAIN A DEMOLITION PERMIT FROM THE COUNTY OF NAPA, AND OTHER APPLICABLE AGENCIES.
2. CONTRACTOR SHALL NOT BEGIN ANY EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 24 HOURS BEFORE STARTING WORK.
3. CONTRACTOR TO PROVIDE A DEMOLITION WASTE PLAN MEETING NAPA COUNTY STANDARDS FOR REVIEW AND APPROVAL PRIOR TO STARTING CONSTRUCTION.

DUST CONTROL NOTES

1. WATER AND/OR DUST PALLIATIVES SHALL BE APPLIED IN SUFFICIENT QUANTITIES DURING GRADING AND OTHER GROUND DISTURBING ACTIVITIES ON-SITE TO MINIMIZE THE AMOUNT OF DUST PRODUCED. OUTDOOR CONSTRUCTION ACTIVITIES SHALL NOT OCCUR DURING WINDY PERIODS.

PROJECT INFORMATION

PROPERTY OWNER:	NAPA VALLEY TRANSPORTATION AUTHORITY SOSCOL GATEWAY TRANSIT CENTER 625 BURNELL ST, NAPA, CA 94559 (707) 251-2800	
CONTRACTOR:	TBD	
DESIGN PROFESSIONALS:	CIVIL ENGINEER ELECTRICAL ENGINEER	TYLIN TYLIN
EXISTING USE:	INDUSTRIAL	
PROPOSED USE:	INDUSTRIAL	
NAPA COUNTY ZONING:	AIRPORT COMPATIBILITY	
AIRPORT SPECIFIC PLAN USE:	INDUSTRIAL PARK	

SITE ADDRESS:

OPERATIONS BUILDING: 101 SHEEHY CT.
NAPA, CA 94558

WORK TO BE DONE:

IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS.

STANDARD SPECIFICATIONS:

1. CALTRANS 2024 STANDARD SPECIFICATIONS

SCOPE OF WORK

THE PROPOSED PROJECT WILL PROVIDE INFRASTRUCTURE IMPROVEMENTS AT THE VINE TRANSIT OPERATIONS FACILITY. THE PROJECT WILL INCLUDE INSTALLATION OF OWNER PROVIDED CHARGING EQUIPMENT AS FOLLOWS:

1. INSTALL TWO CHARGEPOINT POWER BLOCKS AT EACH WITH TWO CHARGEPOINT POWER LINKS FOR A TOTAL OF 8 CHARGING DISPENSERS IN THE BUS CHARGING AREA.
2. INSTALL FIVE CHARGEPOINT CT4000 CHARGERS IN THE FACILITY PARKING LOT.
3. ALL CHARGERS ARE TO BE POWERED FROM EXISTING SWITCHGEAR OR ELECTRICAL PANELS AS INDICATED.
4. ALL CHARGER CIRCUITS SHALL START WITH A NEW CIRCUIT BREAKER AND SHALL INCLUDE ALL WIRING, CONNECTORS, CONDUIT, ETC. FOR COMPLETE SYSTEMS AS INDICATED.
5. CONTRACTOR TO VERIFY ALL EXISTING CONDUITS TO BE USED PRIOR TO CONTRACT BID.

GENERAL CONSTRUCTION NOTES

1. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
2. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
3. CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
5. CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
6. ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
7. CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
8. CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
9. ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
10. ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
11. ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTIWIRE CIRCUITS IS NOT ALLOWED.
12. COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
13. WHERE IT IS NOT POSSIBLE TO REUSE (E) CONDUIT OR RUN (N) CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO (E) UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO (E) UNDERGROUND SYSTEMS AS A RESULT OF (N) WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
15. CONTRACTOR SHALL COORDINATE WITH PG&E, AT&T & PAY ALL CHARGES FOR TEMPORARY CONSTRUCTION POWER & TELEPHONE.
16. CONTRACTOR TO APPLY FOR BUILDING PERMIT WITH NAPA COUNTY FOR THIS PROJECT. PERMIT EXPENSES WILL BE PAID FOR BY THE NVTA.

DRAFT - NOT FOR CONSTRUCTION

NO	REVISION / SUBMISSION	DATE
2	COUNTY OF NAPA - SUBMITTAL 3	3/17/25
1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

DESIGNED BY	BUCZEK, N.	3/17/25
DRAWN BY	WOO, A.	3/17/25
CHECKED BY	BUCZEK, N.	3/17/25
IN CHARGE	ALIKHAN, M.	3/17/25

REGISTERED PROFESSIONAL ENGINEER — MIR S. ALIKHAN — No. C84203 — Exp. 9-30-25 — CIVIL — STATE OF CALIFORNIA

SCALE
HORIZONTAL
N/A
VERTICAL
N/A

NAPA VALLEY TRANSPORTATION AUTHORITY
625 BURNELL ST, NAPA, CA 94559
TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY
96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

SHEET INDEX & NOTES

DRAWING NO. G-02
SHEET NO. 2 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY

CIVIL ABBREVIATIONS

AMERICAN CANYON WATER AUTHORITY	AM CYN
AMERICAN DISABILITY ACT	ADA
APPROXIMATELY	APPROX
ASBESTOS CLAY PIPE	ACP
ASPHALT CONCRETE	AC
BEG.	BEGIN
BOTTOM OF WALL	BW
BUILDING	BLDG
CALIFORNIA BUILDING CODE	CBC
CATCH BASIN	CB
CENTERLINE	CL
CHAIN LINK FENCE	CLF
CLEANOUT	CO
CLOSED CIRCUIT TELEVISION	CCTV
CONCRETE	CONC
COVER	CVR
CURB AND GUTTER	C&G
DEMOLITION	DEMO
DRAWING	DWG
ELECTRIC	ELEC
ELEVATION	ELEV
EXISTING	EXIST, EX.
FACE OF CURB	FOC
FEET	FT
FINISHED FLOOR ELEVATION	FFEL
FINISHED GRADE	FG
FIRE DEPARTMENT CONNECTION	FDC
FIRE HYDRANT	FH
FLOW LINE	FL
FOUND	FD
HIGH DENSITY POLYETHYLENE	HDPE
HOT MIX ASPHALT	HMA
GEOTECHNICAL	GEOTECH
LINEAR FEET	LF
MANHOLE	MH
MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES	MUTCD
MAXIMUM	MAX
MECHANICAL, ELECTRICAL, PLUMBING	MEP
MINIMUM	MIN
MONUMENT	MON
MOUNTABLE CURB	MOUNT. C
NAPA VALLEY TRANSPORTATION AUTHORITY	NVTA
ON CENTER	O.C.
OVERHEAD ELECTRIC	OHE
PAVEMENT	PVMT
POLYVINYL CHLORIDE	PVC
PORTLAND CEMENT CONCRETE	PCC
PROPERTY LINE	P/L
PROPOSED	PROP.
RADIUS	R
REINFORCED CONCRETE PIPE	RCP
REHABILITATION	REHAB
RIGHT	RT
SEWER	SEWER
SIDEWALK	SWLK
SQUARE FEET	SF
STANDARD	STD.
STATION	STA
STORM DRAIN	SD
STREET LIGHT	SL
TOP OF CURB	TC
TOP OF WALL	TW
TYPICAL	TYP.
WATER	WATER
WATER METER	WM
WATER VALVE	WV

CIVIL LEGEND

EXISTING EASEMENT

EXISTING PROPERTY LINE

EXISTING BOUNDARY/RIGHT-OF-WAY

EXISTING CENTER LINE

EXISTING CONTOUR (MAJOR)

EXISTING CONTOUR (MINOR)

EXISTING SPOT ELEVATION (FROM AERIAL TOPO)

EXISTING LIGHT POLE

EXISTING SEWER — S —

EXISTING ELECTRICAL — E —

EXISTING WATER SERVICE — W —

EXISTING GAS — G —

EXISTING TELEPHONE — T —

EXISTING STORM DRAIN

EXISTING FENCE

EXISTING GATE VALVE

EXISTING SANITARY SEWER MANHOLE

EXISTING FIRE HYDRANT

EXISTING SANITARY SEWER CLEANOUT ● SSCO

PROPOSED WATER PIPE

PROPOSED 11.25°, 22.5°, 45°, & 90° BENDS

PROPOSED TEE CONNECTION

PROPOSED GATE VALVE

PROPOSED WATER METER

PROPOSED FIRE HYDRANT

PROPOSED THRUST BLOCK

PROPOSED RECLAIMED WATER

PROPOSED SANITARY SEWER

PROPOSED SANITARY SEWER MANHOLE

PROPOSED SANITARY SEWER CLEAN OUT

PROPOSED STORM

PROPOSED STORM MANHOLE

PROPOSED STORM INLET

PROPOSED RETAINING CURB

PROPOSED END CAP E

PROPOSED CHECK VALVE

PROPOSED RIVER ROCK

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE

EMERGENCY OR NIGHT LIGHT

LED LINEAR RECESSEDLUMINAIRE - SEE SCHEDULE

LUMINAIRE - RECESSED - SEE SCHEDULE

RECESSED WALL WASHER

LUMINAIRE - SURFACE MOUNTED - SEE SCHEDULE

LUMINAIRE - POLE OR POST MOUNTED - SEE SCHEDULE

LUMINAIRE - WALL MOUNTED SEE SCHEDULE

BOLLARD OR PATH LIGHT - SEE SCHEDULE

EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE

TRACK LIGHTING - SEE SCHEDULE

EMERGENCY LIGHT

DIGITAL DUAL TECHNOLOGY OCC. SENSOR

LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED

DRC DIMMER ROOM CONTROLLER

PC PLUG LOAD CONTROLLER

RC ROOM LIGHTING CONTROLLER

LCP LIGHTING CONTROL PANEL

DL DIGITAL DAYLIGHT SENSOR

$ SINGLE POLE SWITCH★★

$a SINGLE POLE SWITCH, ★★ a = CIRCUIT CONTROLLED

$3 THREE WAY SWITCH★★

$4 FOUR WAY SWITCH★★

$M MANUAL MOTOR STARTER

$K KEY OPERATED SWITCH★★

LIGHTING DIMMER★★

$D DIGITAL ON/OFF SWITCH ★★

$D DIGITAL DIMMER SWITCH ★★

$MS DIGITAL MULTI SCENE SWITCH ★★

$OS DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR ★★

$D/S DIGITAL DIMMER SWITCH WITH DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR ★★

WALL OCCUPANCY SENSOR ★★

2 DOUBLE SWITCHED WALL OCCUPANCY SENSOR ★★

DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR ★★

2 2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR ★★

SECURITY DOOR CONTACTS

MD SECURITY MOTION DETECTOR

SC CCTV CAMERA

KP SECURITY SYSTEM KEYPAD

DOOR BELL PUSHBUTTON

DC DOOR CHIME WITH LED

RECEPTACLE - DUPLEX★

DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT

GFCI CONVENIENCE RECEPTACLE - DUPLEX★

GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT

RECEPTACLE DOUBLE DUPLEX★

HALF SWITCHED DUPLEX RECEPTACLE ★

SINGLE RECEPTACLE★

DUPLEX RECEPTACLE - CEILING MOUNTED

HC LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE ★

C LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE ★

FLOOR MOUNTED DUPLEX RECEPTACLE

FLOOR MOUNTED BOX

POWER OUTLET - FIELD VERIFY NEMA TYPE★

POWER POLE

WALL TELEPHONE OUTLET★★

[#] VOICE/DATA WALL OUTLET★

[#] VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT

[#] SURFACE MOUNTED VOICE/DATA WALL OUTLET ★

[#] SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT

WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED

WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT

[#] VOICE/DATA OUTLET - FLOOR MOUNTED

TV OUTLET★

[#] VOICE/DATA OUTLET - CEILING MOUNTED

S INTERIOR SPEAKERS CEILING MOUNTED

HS INTERIOR SPEAKERS WALL MOUNTED

HC CLOCK +8'-0" AFF U.O.N. VERIFY BEFORE INSTALLATION

PANELBOARD - FLUSH MOUNTED

EQUIPMENT PANEL - FLUSH MOUNTED

PANELBOARD - SURFACE MOUNTED

EQUIPMENT PANEL - SURFACE MOUNTED

M METER W/ CURRENT TRANSFORMER

J/HJ JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES

MOTOR CONNECTION

NON-FUSED DISCONNECT SWITCH

FUSED DISCONNECT SWITCH; FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFGR'S NAMEPLATE DATA

COMBINATION STARTER/FUSED DISCONNECT SWITCH; FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA

MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED

CIRCUIT BREAKER

GROUND ROD WITH GROUNDWELL BOX

GROUND ELECTRODE

NORMALLY OPEN CONTACT

NORMALLY CLOSED CONTACT

TRANSFORMER - SEE SINGLE LINE FOR SIZE

PULLBOX

FLEX CONDUIT WITH CONNECTION

CONDUIT - UP

CONDUIT - DOWN

E CONDUIT EMERGENCY SYSTEM

LV LOW VOLTAGE WIRING

SURFACE METAL OR NON-METALLIC RACEWAY

CONDUIT - CONCEALED IN WALLS OR CEILING

CONDUIT - EXISTING

CONDUIT - BELOW SLAB OR UNDERGROUND; 3/4"MIN.

CAPPED OR STUB-OUT CONDUIT

CONDUIT CONTINUATION

#10 CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.

2 SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET

3 SCHEDULE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET

2 DETAIL NOTE REFERENCE SYMBOL SEE ASSOCIATED NOTE ON SAME DETAIL

1 / E3.0 DETAIL NUMBER / DETAIL OR SECTION REFERENCE / SHEET NUMBER

F301 FEEDER DESIGNATION; SEE ASSOCIATED NOTE ON SAME DETAIL

1 / 2 INDICATES QUANTITY OF TELEPHONE OUTLETS / INDICATES QUANTITY OF DATA OUTLETS

ABBREVIATIONS

A	AMPERE	GFCI	GROUND FAULT	OAH	OVERALL HEIGHT		
AFF	ABOVE FINISHED FLOOR	GFI	INTERRUPTING	OC	ON CENTER		
ALUM/AL	ALUMINUM	GND, G	GROUND	OH	OVERHEAD		
ARCH	ARCHITECT	GRS	GALVANIZED RIGID STEEL	PA	PUBLIC ADDRESS		
AWG	AMERICAN WIRE GAUGE	HT	HEIGHT	PB	PULL BOX		
BKR	BREAKER	IC	INTERCOM	PF	POWER FACTOR		
C	CONDUIT	IDF	INTERMEDIATE DISTRIBUTION FRAME	PH	PHASE		
CATV	CABLE TV			PIR	PASSIVE INFRARED		
CB	CIRCUIT BREAKER	INCAND	INCANDESCENT	PNL	PANEL		
CCTV	CLOSED CIRCUIT TV	JB	JUNCTION BOX	PV	PHOTOVOLTAIC		
CKT	CIRCUIT	KV	KILOVOLT	PVC	POLYVINYL CHLORIDE		
CL	CENTER LINE	KVA	KILOVOLT AMPERES	PWR	POWER		
CLG	CEILING	KW	KILOWATT	(R)	EXISTING TO BE REMOVED		
CO	CONDUIT ONLY	LCP	LIGHTING CONTROL PANEL	(RP)	REMOVABLE POLE		
CTR	CENTER	LTG	LIGHTING	RECPT'S	RECEPTACLES		
D	DIMMER	LV	LOW VOLTAGE	REQD	REQUIRED		
DIM	DIMENSION	KCM	THOUSAND CIRCULAR MILS	REQMT'S	REQUIREMENT(S)		
DIST	DISTRIBUTION	MCA	MINIMUM CIRCUIT AMPS	SHT	SHEET		
(E)	EXISTING	MDF	MAIN DISTRIBUTION FRAME	SLD	SINGLE LINE DIAGRAM		
EC	ELECTRICAL CONTRACTOR	MECH	MECHANICAL	STC	SYSTEMS TERMINATION CABINET		
(EL)	EVENING LIGHT	MH	METAL HALIDE	SW	SWITCH		
EM	EMERGENCY	MLO	MAIN LUGS ONLY	SWBD	SWITCHBOARD		
EMT	ELECTRICAL METALLIC TUBING	MPOE	MAIN POINT OF ENTRANCE	TTB	TELEPHONE TERMINAL BACKBOARD		
EQUIP	EQUIPMENT	MTD	MOUNTED	TYP	TYPICAL		
FA	FIRE ALARM	MSG	MAIN SWITCHGEAR	UON	UNLESS OTHERWISE NOTED		
FACP	FIRE ALARM CONTROL PANEL	MOCP	MAXIMUM OVER CURRENT PROTECTION	UG	UNDERGROUND		
FC	FOOT CANDLE	(N)	NEW	V	VOLT		
FIN	FINISH	NIC	NOT IN CONTRACT	W	WATT		
FL	FLOOR	NIEC	NOT IN ELECTRICAL CONTRACT	W/	WITH		
FLA	FULL LOAD AMPS	(NL)	NIGHT LIGHT	WP	WEATHERPROOF		
FLUOR	FLUORESCENT	NO.	NUMBER	XFMR	TRANSFORMER		
(F)	FUTURE	NOM	NOMINAL				
GC	GENERAL CONTRACTOR	NTS	NOT TO SCALE				

FIRE ALARM

NOTE: SEE FIRE ALARM DRAWINGS FOR QUANTITIES AND MOUNTING HEIGHTS.

P MANUAL PULL STATION

STROBE ONLY

HORN ONLY

M MINI HORN

HORN/STROBE

CHIME/STROBE

HEAT DETECTOR

SMOKE DETECTOR

DUCT SMOKE DETECTOR

TAMPER SWITCH

FLOW SWITCH

POST INDICATING VALVE

FIRE SMOKE DAMPER

BELL (GONG)

FCP FIRE ALARM CONTROL PANEL

APS AUXILIARY POWER SUPPLY

FSA FIRE SYSTEM ANNUNCIATOR

FTR FIRE ALARM TRANSPONDER OR TRANSMITTER

ESR ELEVATOR STATUS/RECALL

FAC FIRE ALARM COMMUNICATOR

ANN REMOTE ANNUNCIATORS

EOL END OF LINE

★ +15" A.F.F. TO BOTTOM OF BOX, U.O.N.
★★ +48" A.F.F. TO TOP OF BOX, U.O.N.

[#] NUMBER IN BRACKETS DENOTES NUMBER OF CABLE DROPS WHEN MORE THAN (2).

APPLICABLE CODES & STANDARDS

CODES:

1. 2022 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1
2. 2022 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2015 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2014 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
4. 2022 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
5. COUNTY OF NAPA ORDINANCES, CODES, AND REGULATIONS.

STANDARDS:

1. AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
2. ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
3. INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
4. NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
5. NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
6. UNDERWRITER LABORATORIES (UL)
7. CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

DRAFT - NOT FOR CONSTRUCTION

NO	REVISION / SUBMISSION	DATE
2	COUNTY OF NAPA - SUBMITTAL 3	3/17/25
1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

DESIGNED BY	BUCZEK, N.	3/17/25
DRAWN BY	WOO, A.	3/17/25
CHECKED BY	BUCZEK, N.	3/17/25
IN CHARGE	ALIKHAN, M.	3/17/25

REGISTERED PROFESSIONAL ENGINEER — No. C84203 — Exp. 9-30-25 — CIVIL — STATE OF CALIFORNIA

SCALE
HORIZONTAL N/A
VERTICAL N/A

NVTA NAPA VALLEY TRANSPORTATION AUTHORITY
625 BURNELL ST, NAPA, CA 94559

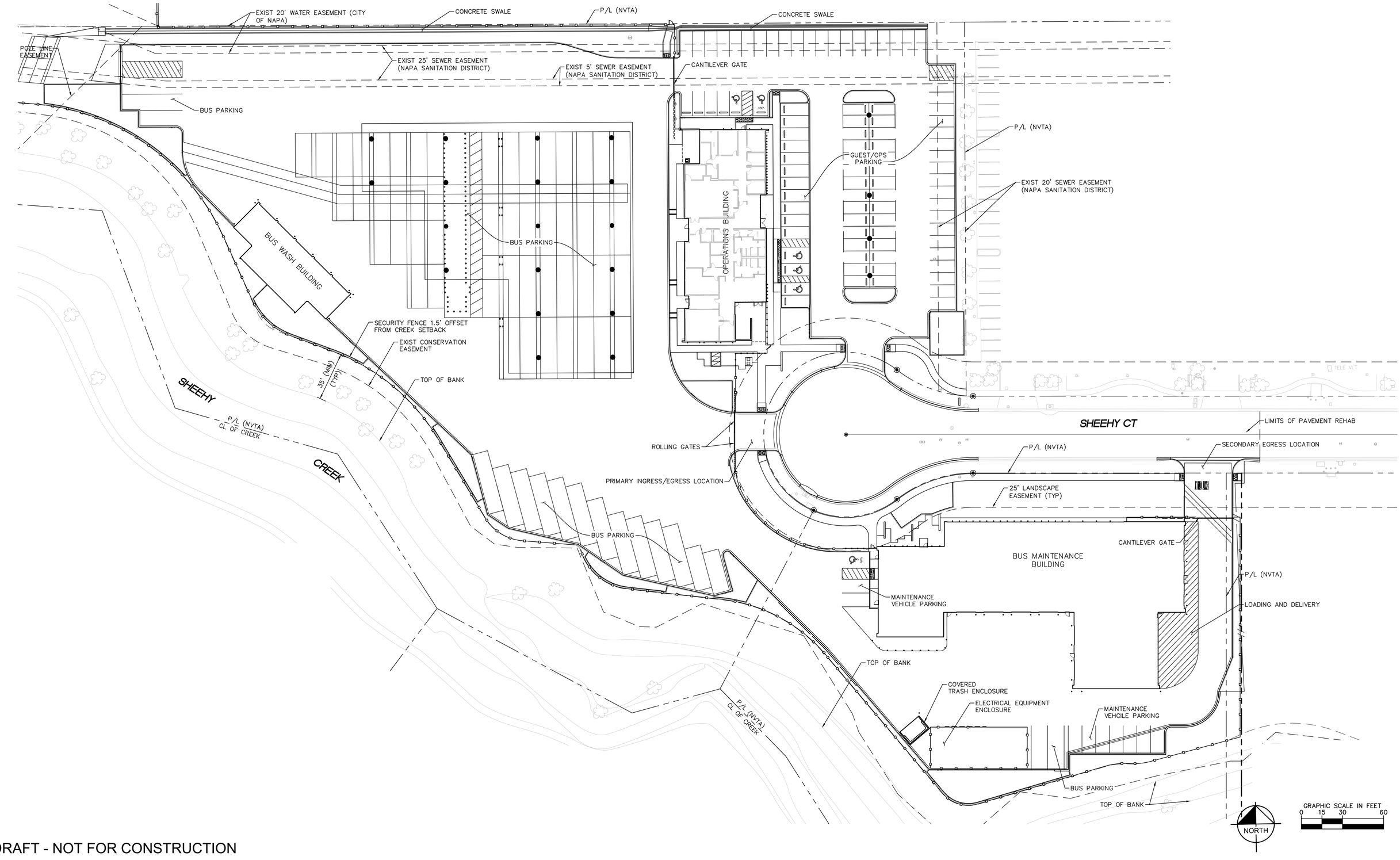
TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY
96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

GENERAL ABBREVIATIONS, SYMBOLS, & LEGENDS

DRAWING NO. G-03
SHEET NO. 3 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY



DRAFT - NOT FOR CONSTRUCTION

NO	REVISION / SUBMISSION	DATE
2	COUNTY OF NAPA - SUBMITTAL 3	3/17/25
1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

DESIGNED BY	BUCZEK, N.	3/17/25
DRAWN BY	HALLISEY, C.	3/17/25
CHECKED BY	BUCZEK, N.	3/17/25
IN CHARGE	ALIKHAN, M.	3/17/25

REGISTERED PROFESSIONAL ENGINEER M.R.S. ALIKHAN No. C84203 Exp. 9-30-25 CIVIL STATE OF CALIFORNIA

SCALE
HORIZONTAL
1" = 30'
VERTICAL
N/A

NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY
625 BURNELL ST, NAPA, CA 94559
TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY

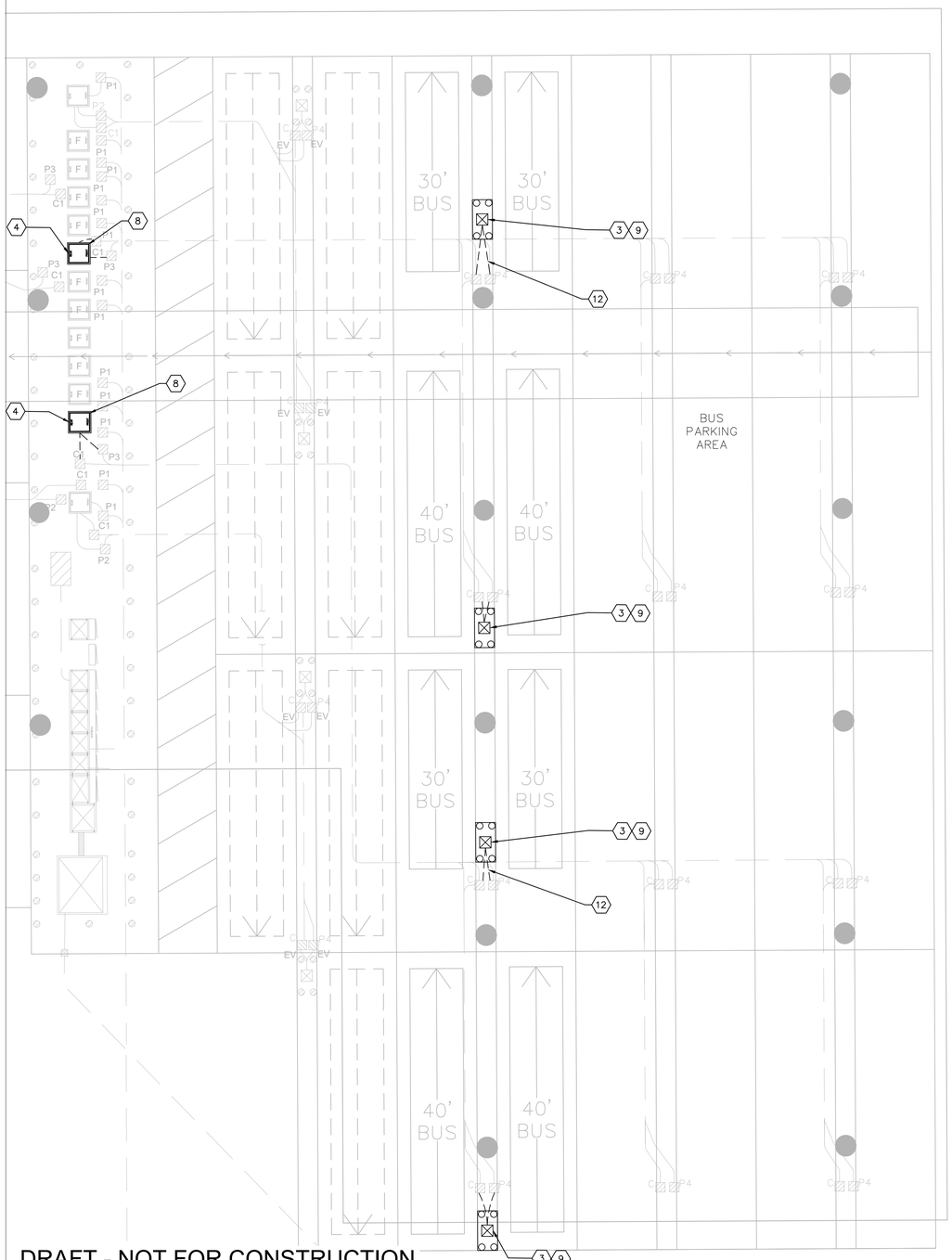
96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

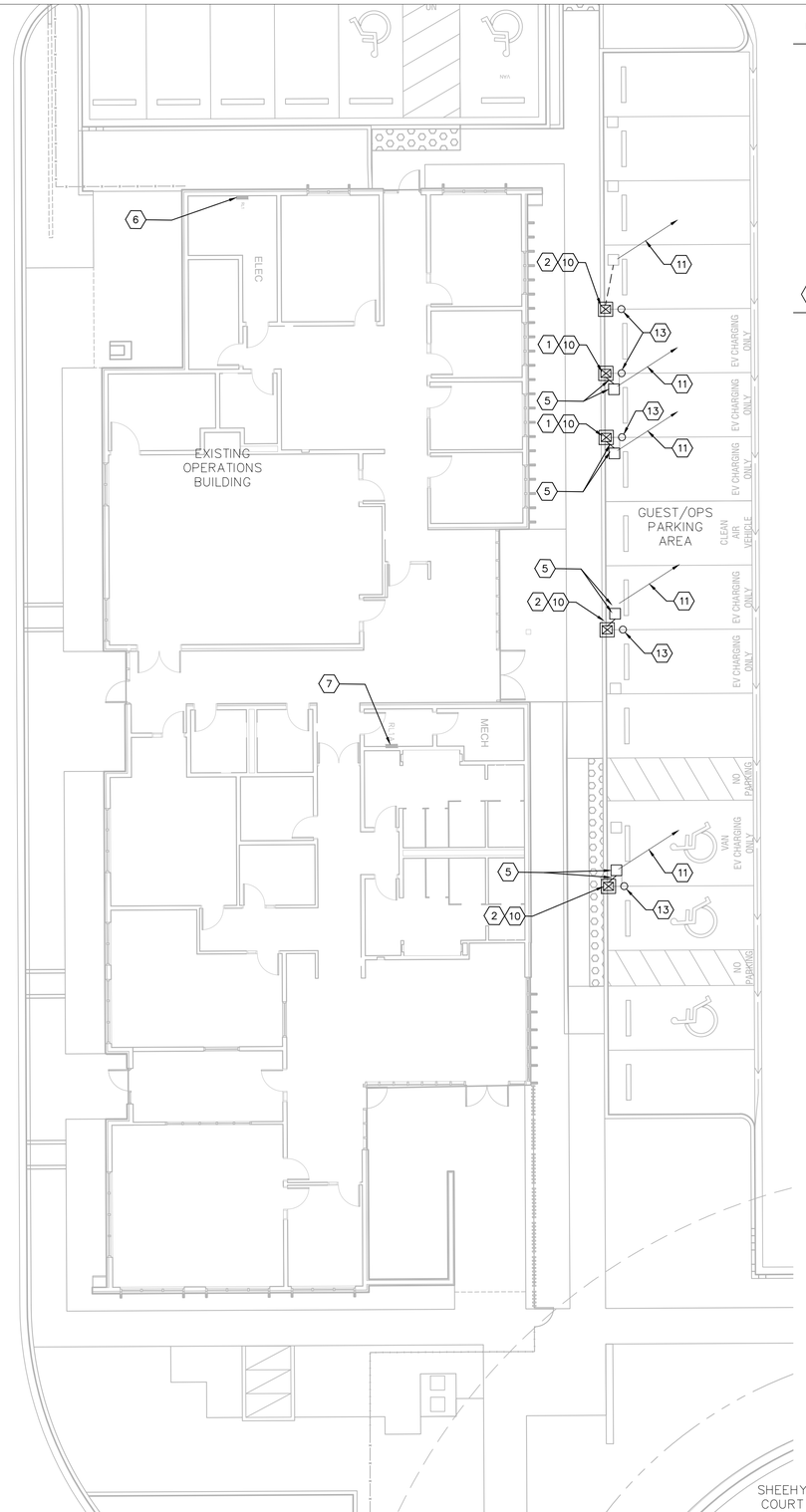
OVERALL SITE PLAN

DRAWING NO. C-01

SHEET NO. 4 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY





GENERAL NOTES

1. ONE POWER BLOCK FEEDS (2) BUS CHARGING STATIONS.
2. CONTRACTOR SHALL COORDINATE WITH CIVIL DRAWINGS FOR EXACT LOCATIONS OF BOLLARDS AROUND THE EV CHARGER.
3. CONTRACTOR SHALL COORDINATE WITH CIVIL DRAWINGS FOR EXACT LOCATIONS AND DETAILS FOR ELECTRICAL EQUIPMENT FOUNDATION.

⬡ SHEET NOTES

1. CHARGEPOINT CT4000 EV CHARGING STATION – SINGLE PORT.
2. CHARGEPOINT CT4000 EV CHARGING STATION – DUAL PORT.
3. CHARGEPOINT EXPRESS PLUS POWER LINK.
4. CHARGEPOINT EXPRESS PLUS POWER BLOCK.
5. RELOCATE PULLBOX.
6. LOCATION FOR PANEL RL1 ACCORDING TO AS–BUILT.
7. LOCATION FOR PANEL RL1A ACCORDING TO AS–BUILT.
8. REFER TO DWG. C–03 FOR THE POWER BLOCK LAYOUT AND FOUNDATION DETAIL, TYP.
9. REFER TO DWG. NO. C–03 FOR THE BUS CHARGER LAYOUT AND FOUNDATION DETAIL, TYP.
10. REFER TO DWG. NO. C–03 FOR THE CHARGER LAYOUT AND FOUNDATION DETAIL, TYP.
11. REFER TO ELECTRICAL PLANS FOR CONDUIT AND WIRING FEEDS, TYP.
12. REPLACE EXISTING CONDUITS AS NECESSARY, TO INSTALL NEW CONDUITS. REFERENCE E–02 FOR MORE INFORMATION.
13. REFER TO DWG. C–03 FOR THE STEEL PIPE BOLLARD DETAIL, TYP.

NORTH

10' 0' 5' 10'

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NO	REVISION / SUBMISSION	DATE
2	COUNTY OF NAPA - SUBMITTAL 3	3/17/25
1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

		DATE
DESIGNED BY	BUCZEK, N.	3/17/25
DRAWN BY	HALLISEY, C.	3/17/25
CHECKED BY	BUCZEK, N.	3/17/25
IN CHARGE	ALIKHAN, M.	3/17/25

REGISTERED PROFESSIONAL ENGINEER
M. R. S. ALIKHAN
No. C84203
Exp. 9-30-25
CIVIL
STATE OF CALIFORNIA

SCALE
HORIZONTAL
1" = 10'
VERTICAL
N/A

NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY
625 BURNELL ST, NAPA, CA 94559

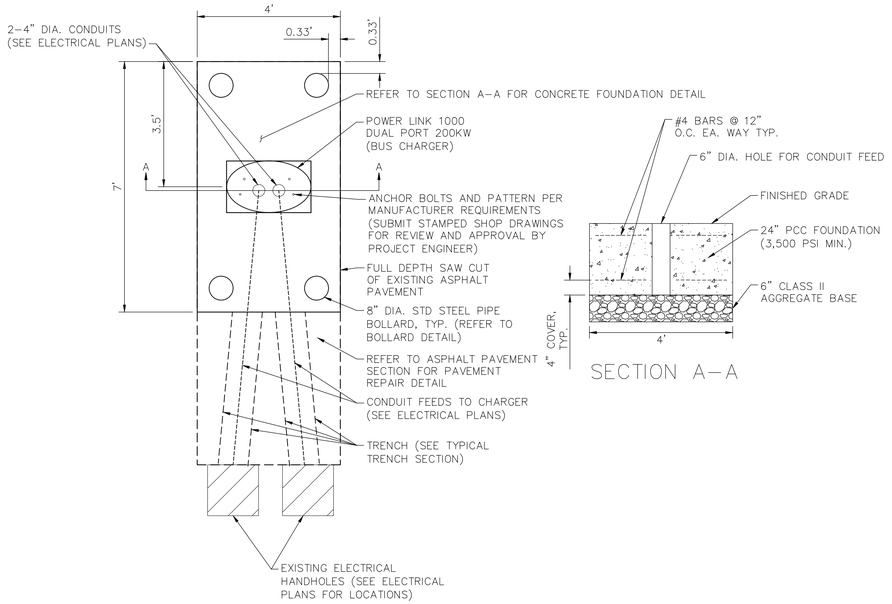
TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY
96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

SITE PLAN

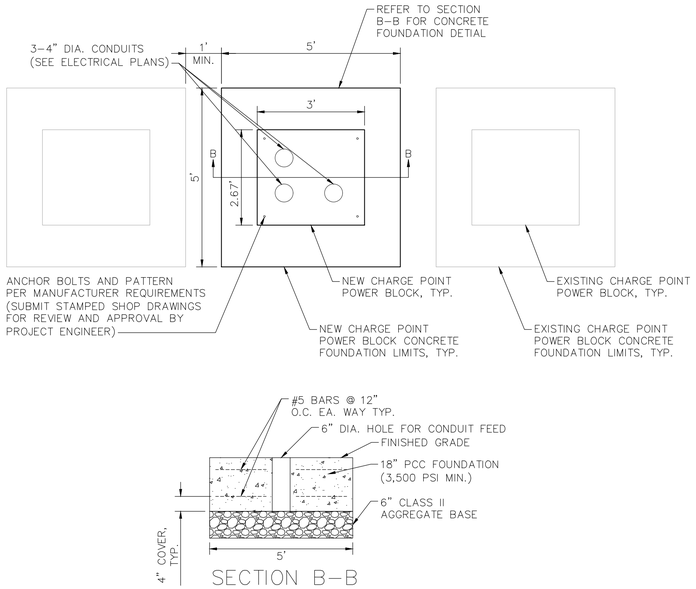
DRAWING NO.
C-02
SHEET NO.
5 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY



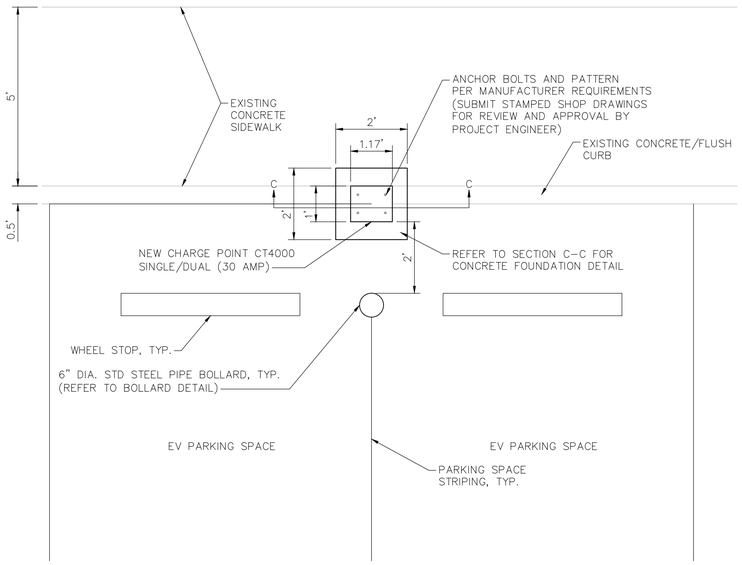
1 BUS EV POWERLINK INSTALLATION DETAIL

1/2" = 1'–0"_1



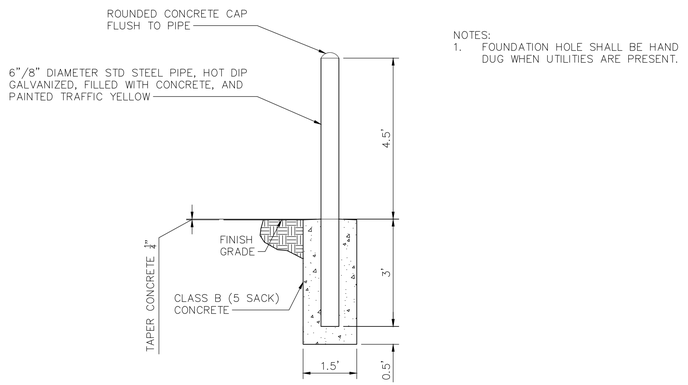
2 BUS EV CHARGER POWER BLOCK INSTALLATION DETAIL

1/2" = 1'–0"_1



3 PASSENGER CAR EV CHARGER INSTALLATION DETAIL

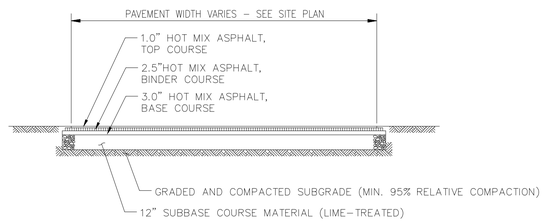
1/2" = 1'–0"_1



NOTES:
1. FOUNDATION HOLE SHALL BE HAND DUG WHEN UTILITIES ARE PRESENT.

4 BOLLARD DETAIL

NO SCALE



5 HEAVY DUTY ASPHALT SECTION

NO SCALE

DRAFT - NOT FOR CONSTRUCTION

NO	REVISION / SUBMISSION	DATE
2	COUNTY OF NAPA - SUBMITTAL 3	3/17/25
1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

		DATE
DESIGNED BY	BUCZEK, N.	3/17/25
DRAWN BY	HALLISEY, C.	3/17/25
CHECKED BY	BUCZEK, N.	3/17/25
IN CHARGE	ALIKHAN, M.	3/17/25

REGISTERED PROFESSIONAL ENGINEER
U.I.P.S. ALIKHAN
No. C84203
Exp. 9–30–25
CIVIL
STATE OF CALIFORNIA

SCALE
HORIZONTAL
N/A
VERTICAL
N/A

NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY
625 BURNELL ST, NAPA, CA 94559

TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

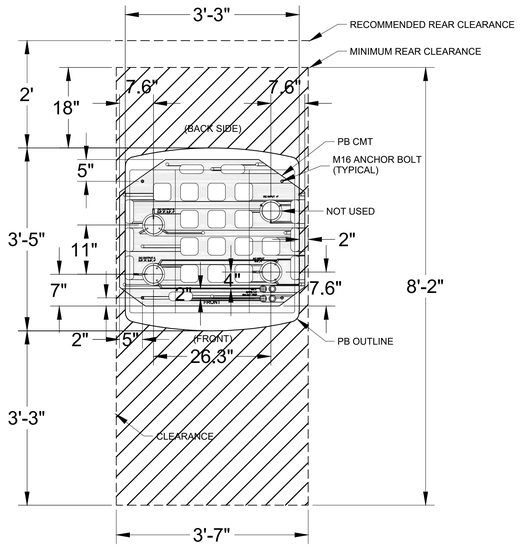
VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY

96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

CIVIL DETAILS - 1

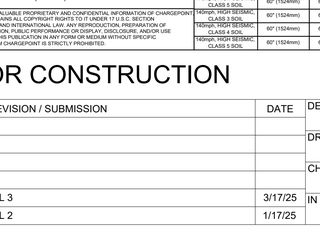
DRAWING NO.
C-03
SHEET NO.
6 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY



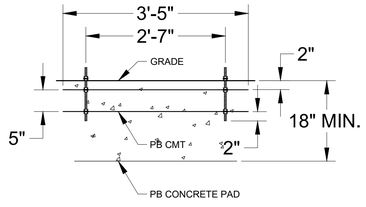
1 POWER BLOCK CMT & FOOTPRINT

NO SCALE



2 POWER BLOCK CMT RIGHT ELEVATION

NO SCALE



3 POWER BLOCK CMT FRONT–BACK ELEVATION

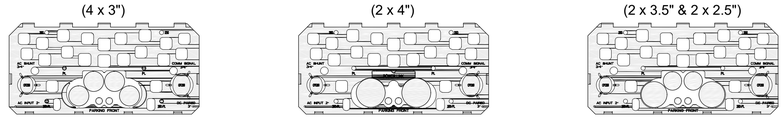
NO SCALE

MAX CONDUIT LEGEND

- O SE - PB, AC POWER IN: 4"
- • SE - PB, SHUNT TRIP: 1" (optional)
- O PB - PL, DC POWER OUT: 4" ((2) max. at PL) see PLx CMT for more detail
- • PB - PL, COMMUNICATION / 48VDC: 1"
- ○ PB - PB, DC POWER IN: 4" (not used)

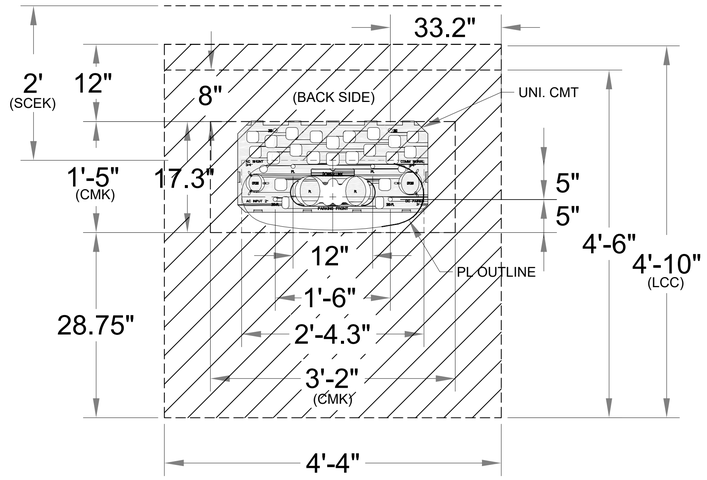
POWER BLOCK 1,500 lbs (680kg) PAD SPECIFICATIONS 2500 PSI

DESIGN SCENARIOS	PAD WIDTH		PAD THICKNESS	#NT @ 51 O.C. TOP REBAR	#NT @ 52 O.C. BOTTOM REBAR
170mph, HIGH SEISMIC, CLASS 3 SOIL	69" (1753mm)	69" (1753mm)	18" (457mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
170mph, HIGH SEISMIC, CLASS 4 SOIL	69" (1753mm)	69" (1753mm)	27" (686mm)	#4 @ 8" (152mm) O.C.	#4 @ 8" (152mm) O.C.
170mph, HIGH SEISMIC, CLASS 5 SOIL	60" (1524mm)	60" (1524mm)	18" (457mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
140mph, HIGH SEISMIC, CLASS 3 SOIL	60" (1524mm)	60" (1524mm)	18" (457mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
140mph, HIGH SEISMIC, CLASS 4 SOIL	60" (1524mm)	60" (1524mm)	18" (457mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
140mph, HIGH SEISMIC, CLASS 5 SOIL	60" (1524mm)	60" (1524mm)	18" (457mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.



4 POWER LINK 2000 CMT CONDUIT CONFIGURATIONS

NO SCALE

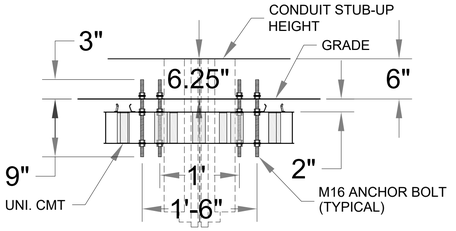


5 POWER LINK CLEARANCES

NO SCALE

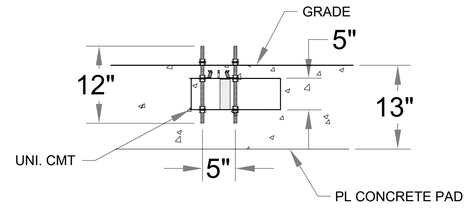
POWER LINK 2000 LCC 441 lbs (200 kg), NON-LCC 400 lbs (180 kg), CABLE 35-82 lbs (16-37 kg) CMK 44 lbs (20 kg), TALL CMK 85 lbs (38.5 kg) PAD SPECIFICATIONS 2500 PSI

DESIGN SCENARIOS	PAD WIDTH		PAD THICKNESS	#NT @ 51 O.C. TOP REBAR	#NT @ 52 O.C. BOTTOM REBAR
170mph, HIGH SEISMIC, CLASS 3 SOIL	59" (1499mm)	59" (1499mm)	17" (432mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
170mph, HIGH SEISMIC, CLASS 4 SOIL	59" (1499mm)	59" (1499mm)	24" (610mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
170mph, HIGH SEISMIC, CLASS 5 SOIL	59" (1499mm)	59" (1499mm)	24" (610mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
140mph, HIGH SEISMIC, CLASS 3 SOIL	48" (1219mm)	48" (1219mm)	13" (330mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
140mph, HIGH SEISMIC, CLASS 4 SOIL	48" (1219mm)	48" (1219mm)	19" (483mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.
140mph, HIGH SEISMIC, CLASS 5 SOIL	48" (1219mm)	48" (1219mm)	19" (483mm)	#4 @ 12" (305mm) O.C.	#4 @ 12" (305mm) O.C.



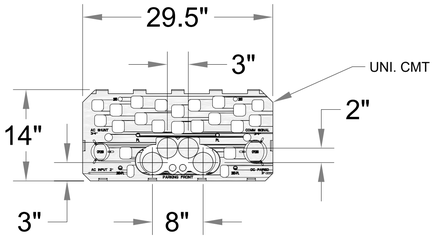
6 POWER LINK 2000 CMT FRONT ELEVATION

NO SCALE



7 POWER LINK 2000 CMT RIGHT ELEVATION

NO SCALE



8 POWER LINK 2000 CMT TOP ELEVATION

NO SCALE

POWER LINK CLEARANCES	
FRONT	28.75" (730mm) MINIMUM OPEN SPACE FOR DOOR SWING
SIDE *	12" (305mm) MEASURED FROM TOP CORNER TO CORNER
TOP	1" (26mm) PEDESTAL WITH CMK
REAR	12" (305mm) LCC, 24" (610mm) SCEK, 8" (203mm) NON-LCC

CLEARANCES ARE MINIMUM REQUIREMENTS FOR PROPER OPERATION AND VENTILATION PURPOSES ONLY. FALLOW ALL LOCAL BUILDING CODES AND REQUIREMENTS WHEN INSTALLING CHARGEPOINT EQUIPMENT.
FOR EASE OF ROUGH-IN INSTALLATION USE RIGHT FRONT ANCHOR BOLT FOR MEASUREMENTS.
ALL OPERATION AND SERVICE IS PERFORMED FROM THE FRONT.
12" REAR CLEARANCE REQUIRED FOR LIQUID COOL CABLE FLUID SERVICE.
24" REAR CLEARANCE REQUIRED FOR SURFACE CONDUIT ENTRY KIT.

*SIDE CLEARANCES CAN BE SHARED BETWEEN TWO CHARGING STATIONS WITHOUT CMKS.

DEFINITIONS

- CMK = CABLE MANAGEMENT KIT
- CMT = CONCRETE MOUNTING TEMPLATE
- PL = POWER LINK
- SCEK = SURFACE CONDUIT ENTRY KIT
- UNI = UNIVERSAL

DRAFT - NOT FOR CONSTRUCTION

NO	REVISION / SUBMISSION	DATE
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1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

		DATE
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DRAWN BY	HALLISEY, C.	1/16/25
CHECKED BY	BUCZEK, N.	1/16/25
IN CHARGE	ALIKHAN, M.	1/16/25

REGISTERED PROFESSIONAL ENGINEER — M. R. S. ALIKHAN — No. C84203 — Exp. 9-30-25 — CIVIL — STATE OF CALIFORNIA

SCALE
HORIZONTAL N/A
VERTICAL N/A

NAPA VALLEY TRANSPORTATION AUTHORITY
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TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY

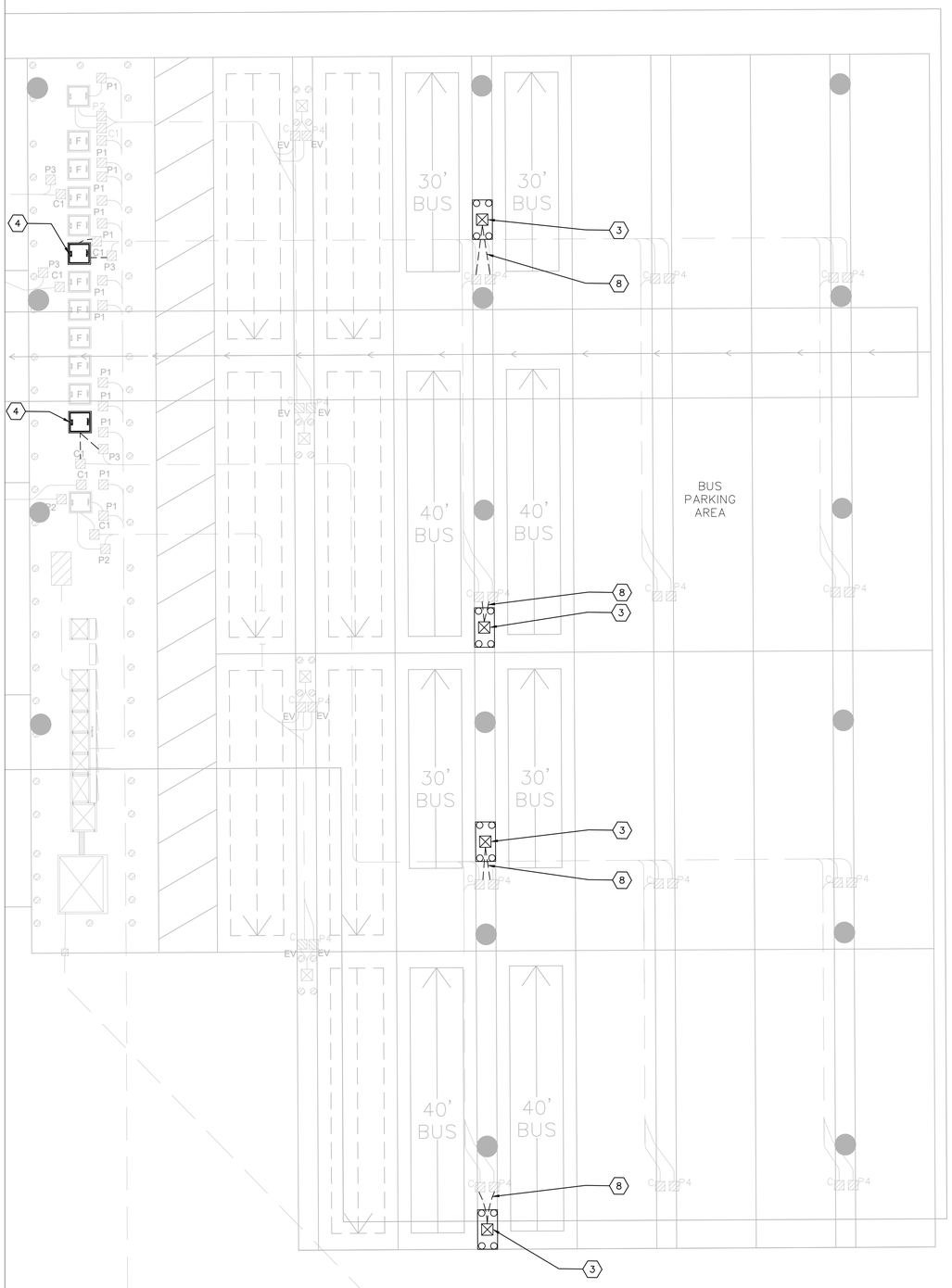
96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

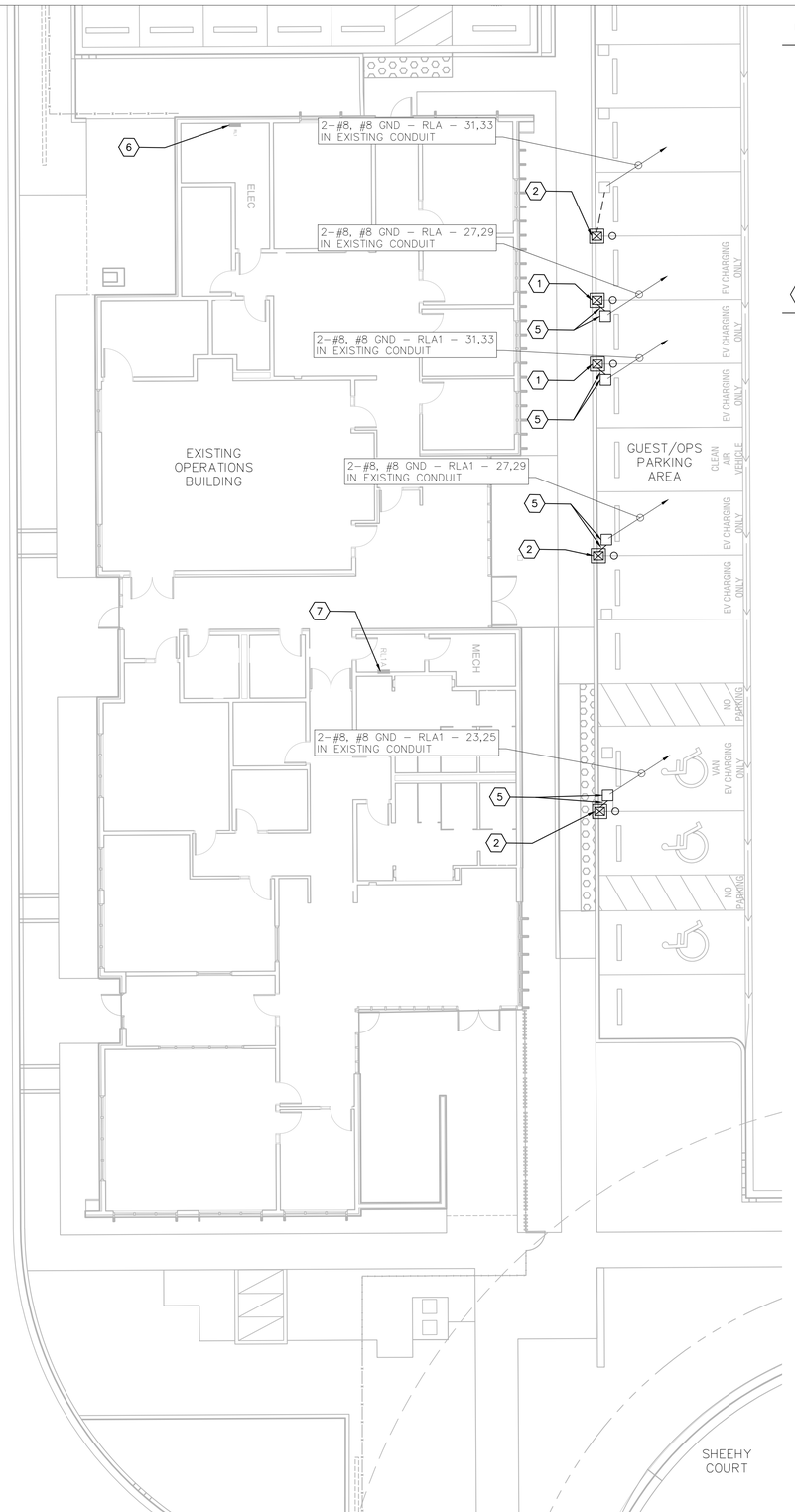
CIVIL DETAILS - 2

DRAWING NO. C-04

SHEET NO. 7 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY





GENERAL NOTES

1. ONE POWER BLOCK FEEDS (2) BUS CHARGING STATIONS.
2. CONTRACTOR SHALL COORDINATE WITH CIVIL DRAWINGS FOR EXACT LOCATIONS OF BOLLARDS AROUND THE EV CHARGER.
3. CONTRACTOR SHALL COORDINATE WITH CIVIL DRAWINGS FOR EXACT LOCATIONS AND DETAILS FOR ELECTRICAL EQUIPMENT FOUNDATION.

⬡ SHEET NOTES

1. CHARGEPOINT CT4000 EV CHARGING STATION – SINGLE PORT.
2. CHARGEPOINT CT4000 EV CHARGING STATION – DUAL PORT.
3. CHARGEPOINT EXPRESS PLUS POWER LINK.
4. CHARGEPOINT EXPRESS PLUS POWER BLOCK.
5. RELOCATE PULLBOX.
6. LOCATION OF PANEL RL1. CONTRACTOR TO PROVIDE TWO (2) 40AMP TWO POLE CIRCUIT BREAKERS TO FEED VEHICLE CHARGERS AS INDICATED.
7. LOCATION OF PANEL RL1A. CONTRACTOR TO PROVIDE THREE (3) 40AMP TWO POLE CIRCUIT BREAKERS TO FEED VEHICLE CHARGERS AS INDICATED.
8. CONDUIT AND WIRE SIZES PER DETAILS ON SHEET E-02.

NORTH

10' 0' 5' 10'

DRAFT - NOT FOR CONSTRUCTION

NO	REVISION / SUBMISSION	DATE
2	COUNTY OF NAPA - SUBMITTAL 3	3/17/25
1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

DESIGNED BY	MOLENDYK, B.	3/17/25
DRAWN BY	WOO, A.	3/17/25
CHECKED BY	MOLENDYK, B.	3/17/25
IN CHARGE	MOLENDYK, B.	3/17/25

REGISTERED PROFESSIONAL ENGINEER BRENT LAROY MOLENDYK 12197 CIVIL STATE OF CALIFORNIA

SCALE
HORIZONTAL
1" = 10'
VERTICAL
N/A

NVTA
NAPA VALLEY TRANSPORTATION AUTHORITY
625 BURNELL ST, NAPA, CA 94559

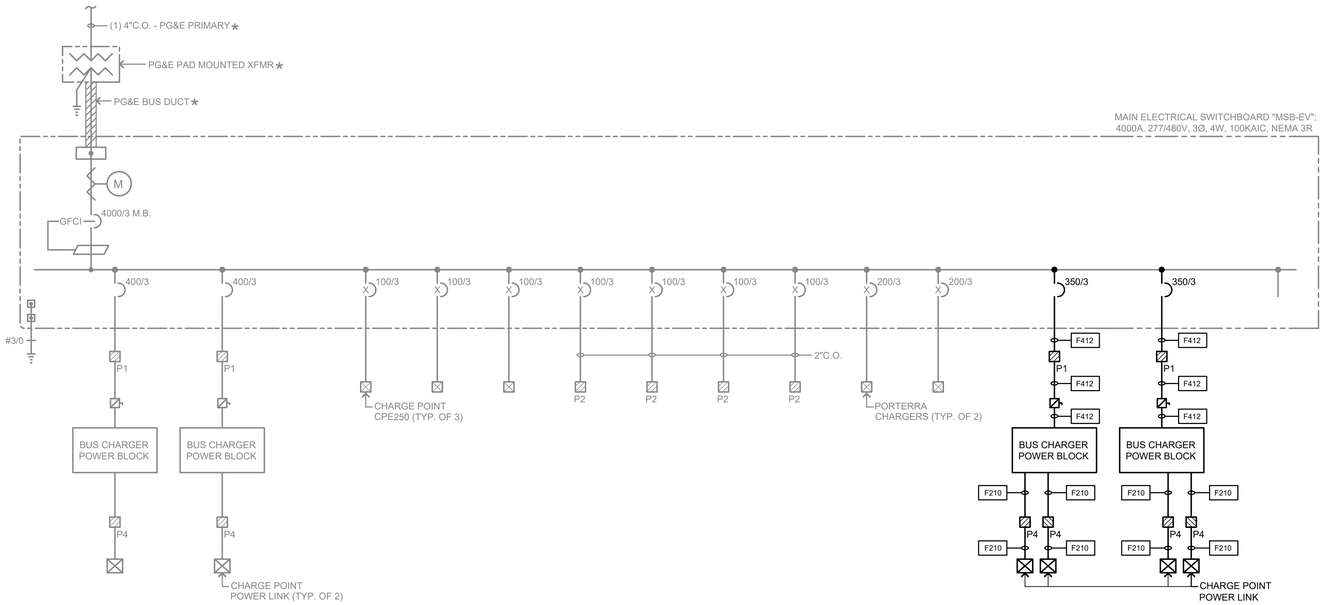
TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY
96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

ELECTRICAL SITE PLAN

DRAWING NO.
E-01
SHEET NO.
8 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY



1 ELECTRICAL SINGLE LINE DIAGRAM

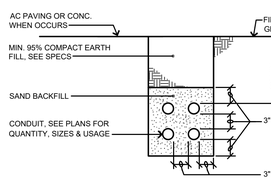
NO SCALE

GENERAL NOTES:

1. ALL EQUIPMENT SHOWN IN GRAY IS EXISTING.
   ALL EQUIPMENT SHOWN IN BLACK IS NEW.

✱ PER PG&E RULES, REGULATIONS & STANDARDS

FEEDER SCHEDULE		
DESIGNATION	AMPACITY	CONDUIT & CONDUCTORS SIZES
F210	250	2" C., #250kcm, 1 #4 GND., 1000v RATED (TYP. TO EACH POWER LINK)
F412	400	4" C., 3 #500kcm, 1 #2 GND., NO NEUTRAL



NOTES:

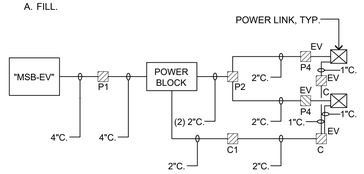
1. BASE MATERIAL TO BE REPLACED TO THE DEPTH OF EXISTING BASE AND COMPACTED TO A MIN. 95% RELATIVE COMPACTION, A.C. MAY BE SUBSTITUTED FOR BASE MATERIAL. WHEN USED AS BACKFILL, CLASS 100-E-100 P.C.C. MAY BE SUBSTITUTED FOR BASE MATERIAL.
2. A TACK COAT OF ASPHALTIC EMULSION OR PAVING ASPHALT SHALL BE APPLIED TO EXISTING A.C. AT ALL CONTACT SURFACES, PRIOR TO RESURFACING.

2 TYPICAL TRENCH SECTION

NO SCALE

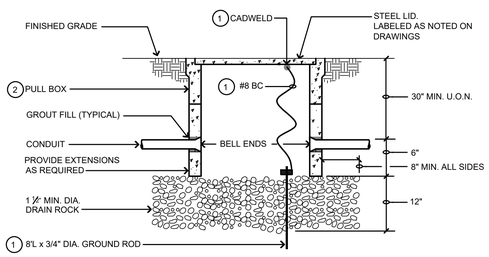
GENERAL DETAIL NOTES:

A. FILL.



4 TYPICAL EV RISER DIAGRAM

NO SCALE



◯ DETAIL NOTES:

1. FOR BOXES WITH METAL LIDS ONLY. PROVIDE GROUND ROD W/BC CABLE. PROVIDE ENOUGH SLACK TO ALLOW FOR REMOVAL OF LIDS (120/208 & 277/480V ONLY).
2. SIZE(S) & MFGR. AS NOTED ON [PULLBOX SCHEDULE] [DRAWINGS].

3 TYPICAL PULLBOX DETAIL

NO SCALE

DRAFT - NOT FOR CONSTRUCTION

NO	REVISION / SUBMISSION	DATE
2	COUNTY OF NAPA - SUBMITTAL 3	3/17/25
1	COUNTY OF NAPA - SUBMITTAL 2	1/17/25

DESIGNED BY	MOLENDYK, B.	3/17/25
DRAWN BY	WOO, A.	3/17/25
CHECKED BY	MOLENDYK, B.	3/17/25
IN CHARGE	MOLENDYK, B.	3/17/25

REGISTERED PROFESSIONAL ENGINEER
BRENT LEROY MOLENDYK
E21[illegible]
ELECTRICAL
STATE OF CALIFORNIA

SCALE
HORIZONTAL
N/A
VERTICAL
N/A

NAPA VALLEY TRANSPORTATION AUTHORITY
625 BURNELL ST, NAPA, CA 94559
TYLin
1111 BROADWAY, #1250, OAKLAND, CA 95607

VINE TRANSIT OPERATIONS FACILITY
EV CHARGERS AT BUS MAINTENANCE FACILITY

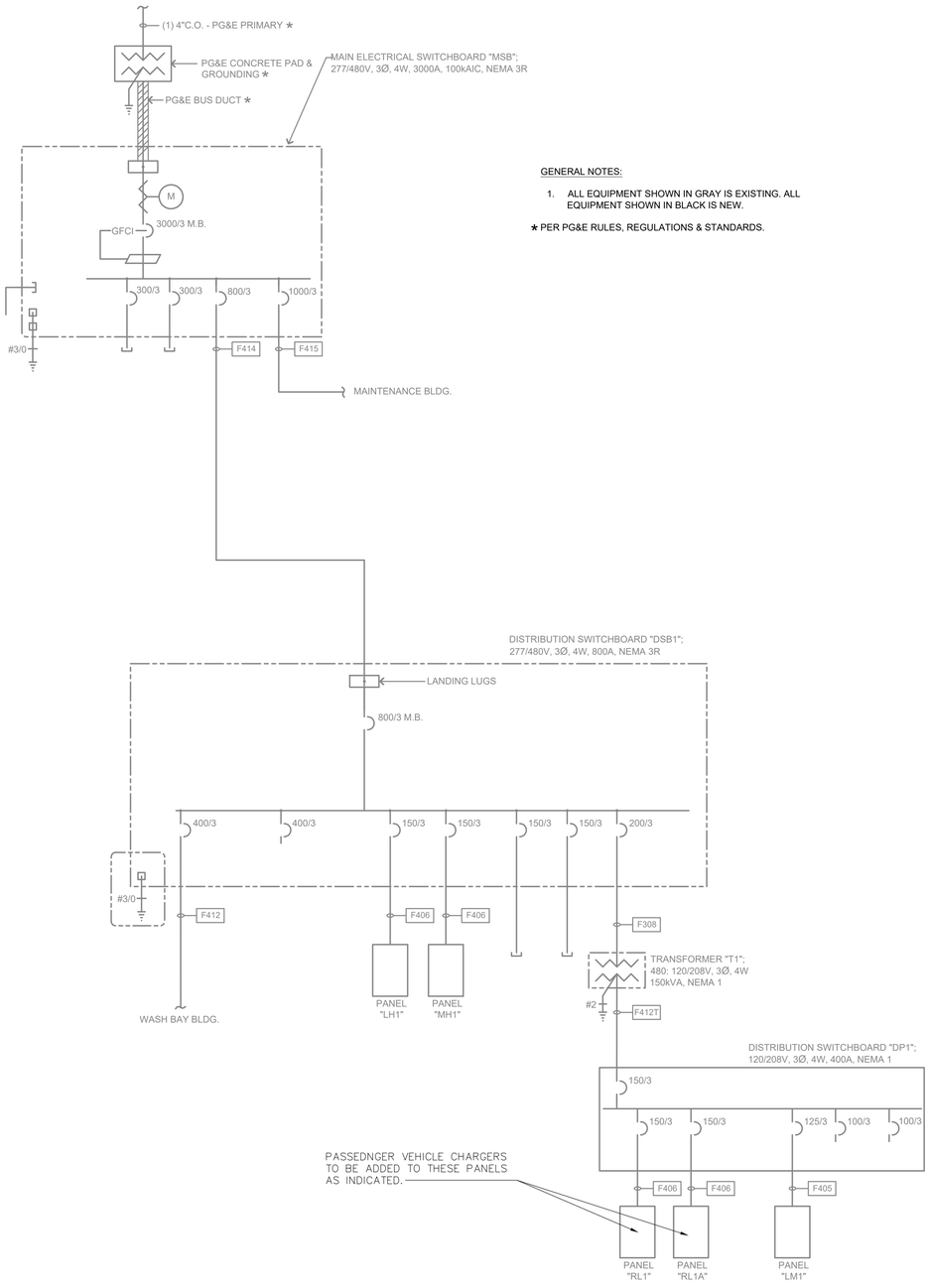
96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

ELECTRICAL DETAILS - 1

DRAWING NO. E-02

SHEET NO. 9 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY



5 ELECTRICAL SINGLE LINE DIAGRAM

NO SCALE

GENERAL NOTES:

1. ALL EQUIPMENT SHOWN IN GRAY IS EXISTING. ALL EQUIPMENT SHOWN IN BLACK IS NEW.

✶ PER PG&E RULES, REGULATIONS & STANDARDS.

ELECTRICAL CALCULATIONS

ELECTRICAL LOAD CALCULATIONS ***

MAINTENANCE BUILDING (LOAD)	VA
GENERAL RECEPTACPLES (NEC 220.44)	22,060
GENERAL LIGHTING x1.25 (CONTINUOUS LOAD)	10,858
MAINTENANCE EQUIPMENT	196,831
FUTURE EV BUS CHARGING STATION	125,000
MECHANICAL EQUIPMENT (NEC 430.24) LARGEST AT 125%	6,649
TOTAL DEMAND LOAD (VA)	361,398
TOTAL DEMAND LOAD (AMPS AT 480V, 3 PHASE)	**435**
OPERATIONS BUILDING (LOAD)	**VA**
GENERAL RECEPTACPLES (NEC 220.44)	31,604
GENERAL LIGHTING x1.25 (CONTINUOUS LOAD)	9,500
SMALL MECHANICAL UNITS	19,810
MECHANICAL EQUIPMENT (NEC 430.24) LARGEST AT 125%	19,943
FUTURE EMPLOYEE CAR CHARGING STATION	72,000
TOTAL DEMAND LOAD (VA)	152,857
TOTAL DEMAND LOAD (AMPS AT 480V, 3 PHASE)	**184**
WASH BUILDING (LOAD)	**VA**
GENERAL RECEPTACPLES (NEC 220.44)	2,300
GENERAL LIGHTING x1.25 (CONTINUOUS LOAD)	2,875
WASH EQUIPMENT	199,740
TOTAL DEMAND LOAD (VA)	204,915
TOTAL DEMAND LOAD (AMPS AT 480V, 3 PHASE)	**247**
TOTAL SITE (LOAD)	**VA**
TOTAL DEMAND LOAD (VA)	**925**
TOTAL DEMAND LOAD FOR ALL BUILDINGS (VA)	720,095
x1.25 (VA)	900,119
TOTAL AMPS AT 480V, 3 PHASE	**1,083**

***ELECTRICAL ENERGY ESTIMATE PROVIDED IN THIS CALCULATION GENERALLY REFLECTS THE ANTICIPATED USAGE. FOR ACCURATE ENERGY STORAGE/GENERATION SYSTEM SIZING, IT IS STRONGLY RECOMMENDED THAT NVTA ENGAGE THE SERVICES OF AN ENERGY CONSULTANT PER THE FEBRUARY 12, 2019 RECOMMENDATION LETTER ISSUED BY AXIOM ENGINEERS.

VOLTAGE DROP TABLE

EQUIPMENT	DISTANCE (FT)	VOLTAGE	VOLTAGE DROP
DISTRIBUTION SWITCHBOARD "DSB1"	640	480	1.19%
PANEL "LH1"	15	480	0.06%
PANEL "MH1"	20	480	0.08%
DISTRIBUTION PANEL "DP1"	5	208	0.09%
PANEL "RL1"	5	208	0.03%
PANEL "RL1A"	85	208	0.58%
PANEL "LML1"	25	208	0.15%
PANEL "WH"	430	480	1.28%
PANEL "WL"	10	208	0.16%
DISTRIBUTION SWITCHBOARD "DSB2"	135	480	0.38%
PANEL "RH"	175	480	0.44%
PANEL "LH"	30	480	0.13%
PANEL "MH"	45	480	0.11%
DISTRIBUTION PANEL "DPL"	5	208	0.02%
PANEL "RL"	15	208	0.12%
PANEL "RLA"	160	208	1.31%
PANEL "LML"	160	208	1.31%
DISTRIBUTION PANEL "EHG"	30	480	0.08%
PANEL "EHG1"	520	480	1.84%
PANEL "ELG1"	5	208	0.04%
PANEL "ELG"	5	208	0.04%
PANEL "EHS"	45	480	0.19%
PANEL "EHS1"	540	480	2.40%
PANEL "ELS1"	5	208	0.05%
PANEL "ELS"	5	208	0.05%
DISTRIBUTION PANEL "DPE"	150	480	0.45%

FAULT CURRENT TABLE

EQUIPMENT	DISTANCE (FT)	AMPS	VOLTAGE	AIC
MAIN ELECTRICAL SWITCHBOARD			**480**	**100,000**
DISTRIBUTION SWITCHBOARD "DSB1"	**640**	**400**	**480**	**16,780**
PANEL "LH1"	15	12	480	15,009
PANEL "MH1"	20	80	480	14,499
TRANSFORMER "T1"	15	125	480 / 208	18,299
DISTRIBUTION PANEL "DP1"	5	125	208	14,839
PANEL "RL1"	5	70	208	14,343
PANEL "RL1A"	85	60	208	9,247
PANEL "LML1"	25	50	208	12,753
PANEL "WH"	410	320	208	4,521
TRANSFORMER "TW"	10	30	480 / 208	5,790
PANEL "WL"	10	30	208	5,536
DISTRIBUTION SWITCHBOARD "DSB2"	**135**	**400**	**480**	**53,775**
PANEL "RH"	175	101	480	19,221
PANEL "LH"	30	20	480	30,625
PANEL "MH"	45	150	480	36,775
TRANSFORMER "T"	30	160	480 / 208	27,115
DISTRIBUTION PANEL "DPL"	5	160	208	14,747
PANEL "RL"	15	50	208	12,692
PANEL "RLA"	160	150	208	5,407
PANEL "LML"	160	60	208	5,407
DISTRIBUTION PANEL "EHG"	30	480	480	46,595
PANEL "EHG1"	520	80	480	5,449
TRANSFORMER "TEG1"	5	100	480 / 208	6,395
PANEL "ELG1"	5	100	208	5,582
TRANSFORMER "TEG"	5	125	480 / 208	11,607
PANEL "ELG"	5	125	208	5,536
PANEL "EHS"	45	40	480	25,200
PANEL "EHS1"	540	20	480	1,655
TRANSFORMER "TES1"	5	20	480 / 208	2,513
PANEL "ELS1"	5	20	208	3,161
TRANSFORMER "TES"	5	20	480 / 208	6,523
PANEL "ELS"	5	20	208	3,125
DISTRIBUTION PANEL "DPE"	150	640	480	46,246

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DRAWN BY	WOO, A.	3/17/25
CHECKED BY	MOLENDYK, B.	3/17/25
IN CHARGE	MOLENDYK, B.	3/17/25

REGISTERED PROFESSIONAL ENGINEER GREEN LEROY MOLENDYK F21611 ELECTRICAL STATE OF CALIFORNIA

SCALE
HORIZONTAL
N/A
VERTICAL
N/A

NVTA NAPA VALLEY TRANSPORTATION AUTHORITY
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96 SHEEHY COURT, NAPA, CA
PARCEL NUMBER: 057-250-025-000

ELECTRICAL DETAILS - 2

DRAWING NO. E-03

SHEET NO. 10 OF 10

VINE TRANSIT OPERATIONS FACILITY - EV CHARGERS AT BUS MAINTENANCE FACILITY