City of Santa Rosa

IMPROVEMENT PLANS FOR : PHASE 2 - TRANSIT ELECTRIFICATION

55 STONY POINT RD, SANTA ROSA CA 95401

CONTRACT NO. C02507

GENERAL GRADING AND DRAINAGE NOTES:

THE REQUIREMENTS AND INFORMATION SET OUT BELOW ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE AND DO NOT ENCOMPASS ALL PROJECT REQUIREMENTS DESCRIBED BY THE PROJECT PLANS AND/OR APPLICABLE LAWS, REGULATIONS AND/OR BUILDING CODES.

1. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES AS PER THE SPECIFICATIONS.

GENERAL CONTRACT NOTES:

1. ALL WORKMANSHIP, MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE CITY OF SANTA ROSA STANDARD PLANS, THE CONSTRUCTION SPECIFICATIONS FOR PUBLIC IMPROVEMENTS, THE SPECIAL PROVISIONS FOR THIS PROJECT AND THE STATE STANDARD SPECIFICATIONS AND STANDARD PLANS. THE CONTRACTOR IS RESPONSIBLE FOR UNDERSTANDING ALL STANDARDS PERTAINING TO THIS PROJECT.
2. THE CONTRACTOR SHALL CALL UNDERGROUND SERVICE ALERT (USANORTH) AT 811 NO LESS THAN 2 WORKING DAYS PRIOR TO ANY EXCAVATION FOR MARK OUTS OF EXISTING UNDERGROUND FACILITIES IN ACCORDANCE WITH SECTION 5-1.36E OF THE SPECIAL PROVISIONS.
3. THE LOCATIONS OF UNDERGROUND UTILITIES AND OTHER OBSTACLES SHOWN ON THE PLANS ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL POTHOLE AND DETERMINE THE EXACT LOCATION OF ALL POTENTIAL CONFLICTS IN ACCORDANCE WITH U.S.A. LAWS AND THESE SPECIAL PROVISIONS AND THE STANDARD SPECIFICATIONS. IF ANY UNMARKED UTILITIES ARE ENCOUNTERED, OR IF UNABLE TO LOCATE A MARKED UTILITY AFTER POT HOLING, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF THAT UTILITY AND THE ENGINEER.
4. ALL SEWER MANHOLES, MAINLINE CLEANOUTS AND WATER VALVES THAT ARE ON ACTIVE SYSTEMS SHALL BE ACCESSIBLE TO CITY PERSONNEL AT ALL TIMES AND SHALL BE BROUGHT TO GRADE WITHIN 48 HOURS OF PAVING.
5. THE CONTRACTOR SHALL PROTECT AND PRESERVE CITY MONUMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE CITY ENGINEER 10 WORKING DAYS IN ADVANCE FOR REFERENCING OF EXISTING MONUMENTS TO BE DISTURBED. THE CONTRACTOR SHALL RECONSTRUCT DISTURBED MONUMENTS IN ACCORDANCE WITH CITY STANDARD 280.
6. OVERHEAD UTILITY SERVICE DROPS ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL INVESTIGATE THE SITE AND BE AWARE OF LIMITED CLEARANCES UNDER OVERHEAD UTILITY LINES AND LOW HANGING TREE BRANCHES. THE CONTRACTOR'S TRUCKS AND EXCAVATION EQUIPMENT SHALL BE SIZED SO THAT OVERHEAD WIRES AND TREE BRANCHES ARE NOT DAMAGED.
7. ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF AS GENERATED AND AT NO TIME SHALL THE CONTRACTOR PLACE EXCAVATED MATERIAL AT THE WORK SITE.
8. THE CONTRACTOR SHALL ONLY REMOVE EXISTING TREES OR SHRUBS AS NOTED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. FOR CLARITY OF EXISTING SUBSURFACE CONDITIONS, NOT ALL CROSSWALKS, STOP BARS, OR EXISTING PAVEMENT MARKINGS ARE SHOWN ON THE PLANS. TRAFFIC STRIPES, RAISED PAVEMENT MARKERS AND PAVEMENT MARKINGS DAMAGED DUE TO THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED PER CITY OF SANTA ROSA TRAFFIC STANDARDS PART III, TRAFFIC MARKINGS. PATCHING OF DAMAGED MARKINGS WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL FROM THE ENGINEER. ALL DAMAGED RAISED PAVEMENT (NON-REFLECTIVE) MARKERS MUST BE CERAMIC.
10. IF DAMAGED DURING CONSTRUCTION, THE CONTRACTOR SHALL REPLACE IN KIND ALL EXISTING STRUCTURES, WALKWAYS, CURB & GUTTER, LANDSCAPING, AND/OR OTHER IMPROVEMENTS TO AN EXISTING OR BETTER CONDITION.
11. ALL WORK SHALL BE CONFINED WITHIN THE EASEMENTS AND/OR CONSTRUCTION LIMITS AS SHOWN ON THE PLANS.
12. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT OR NOTICE TO PROCEED HAS BEEN ISSUED
13. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK OF THE CONTRACTOR'S INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES AND THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES IN THE WORK AREA. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) TWO (2) WORKING DAYS PRIOR TO BEGINNING ANY EXCAVATION.
14. THE CONTRACTOR SHALL OBTAIN WRITTEN AUTHORIZATION FROM ANY PROPERTY OWNER GIVING PERMISSION TO ENTER THE PROPERTY FOR THE PURPOSE OF CONSTRUCTING THE IMPROVEMENTS DELINEATED ON THE PLANS AND TRANSITION THERETO.
15. ALL BILL OF MATERIALS AND/OR EQUIPMENT SHALL BE PROVIDED AS SPECIFIED WITHIN THIS SET OR APPROVED EQUAL. ALL BILL OF MATERIALS AND/OR EQUIPMENT SHALL MATCH THE SAME QUALITY AND CAPACITY AS INDICATED HEREIN

DEMOLITION NOTES:

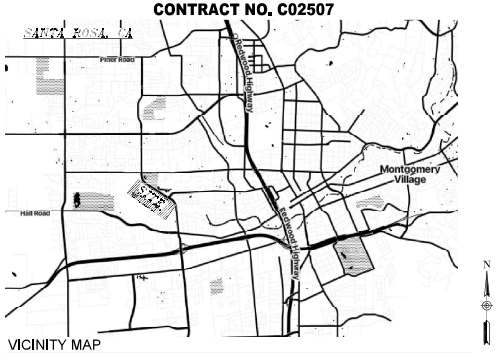
1. CONTRACTOR SHALL LEGALLY DISPOSE OF ALL DEMOLISHED MATERIALS OFF SITE.
2. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITY IMPROVEMENTS NOT SPECIFICALLY DESIGNATED FOR REMOVAL.
3. THE ON-SITE UNDERGROUND UTILITIES SHOWN ON THIS SHEET ARE AT AN APPROXIMATE LOCATION. THE EXTENT, LOCATIONS AND SIZES ARE UNKNOWN. THE CONTRACTOR SHALL POTHOLE TO LOCATE AND VERIFY THE UNDERGROUND UTILITY LINES PRIOR TO REMOVAL.
4. CONTRACTOR TO PROTECT AND PRESERVE IN PLACE ANY FOUND SURVEY MONUMENTS. ANY MONUMENTS DISTURBED SHALL BE RESET BY A LICENSED SURVEYOR AND THE APPROPRIATE PAPERWORK FILED WITH THE CITY OR COUNTY.
5. ALL HAZARDOUS MATERIALS ENCOUNTERED DURING SITE DEMOLITION SHALL BE REMEDIATED AND DISPOSED OF PER STATE AND EPA REQUIREMENTS.
6. CONTRACTOR SHALL CONTACT AND COORDINATE WITH ALL UTILITY AGENCIES PRIOR TO THE START OF ANY DEMOLITION OR CONSTRUCTION.
7. ANY EXISTING UTILITIES AND/ OR IMPROVEMENTS THAT BECOME DAMAGED DURING CONSTRUCTION SHALL BE COMPLETELY RESTORED TO THE SATISFACTION OF THE OWNER AND AGENCY HAVING JURISDICTION, AT THE CONTRACTOR'S SOLE EXPENSE.

DIGALERT NOTES

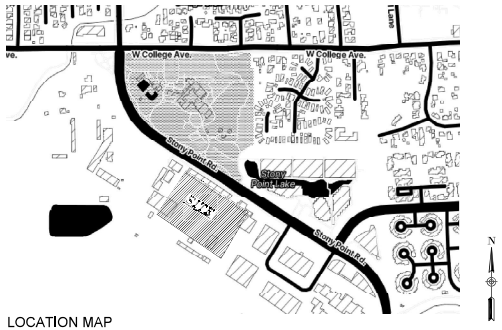
1. LOCATIONS OF ALL UNDERGROUND FACILITIES ARE TAKEN FROM AVAILABLE MAPS AND RECORDS. ACTUAL FIELD LOCATIONS OF ALL UTILITIES MUST BE VERIFIED BY CONTRACTOR PRIOR TO TRENCHING. CONTACT USA DIGALERT, 1-800-227-2600, PRIOR TO DIGGING.
2. CONTRACTOR TO HAND-DIG ANY AND ALL LOCATIONS WHERE UNDERGROUND UTILITIES ARE SUSPECTED OR KNOWN.

DIGALERT

Call 2 Working Days Before You Dig! 811



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

UTILITY NOTE:

UTILITY INFORMATION SHOWN HEREON IS BASED ON RECORD INFORMATION SUPPLIED TO THE ENGINEER BY UTILITY COMPANIES, PUBLIC AGENCIES AND THE PROPERTY OWNER, TOGETHER WITH EVIDENCE GATHERED FROM SURFACE LOCATING METHODS AND OBSERVATION OF VISIBLE EVIDENCE BY A FIELD SURVEY. THE ENGINEER CAN MAKE NO GUARANTEE AS TO THE ACCURACY OR COMPLETENESS OF THE UNDERGROUND UTILITY FACILITIES SHOWN. PRIOR TO ANY SITE EXCAVATIONS, THE CONTRACTOR SHALL CONTACT THE OWNER AND UNDERGROUND SERVICE ALERT (U.S.A.) AND REQUEST THE THEY IDENTIFY THE LOCATION OF ALL UNDERGROUND UTILITIES AT THE SITE.

FLOOD ZONE NOTES:

1. PROJECTED SITE LOCATION WITHIN FLOOD HAZARD ZONE X UNSHADED; AREA OF MINIMAL FLOOD HAZARD.
2. FIRM PANEL: 06097C0728E
3. MAP EFFECTIVE DATE; DECEMBER 12, 2008
4. MAP IS COUNTYWIDE, NOT PRINTED.

LIST OF CONSULTANTS:

CIVIL AND STRUCTURAL:

RICHARD S TOMLINSON, PE
NV5, INC
15092 AVENUE OF SCIENCE, #200
SAN DIEGO, CA, 92128
858-385-0500

ELECTRICAL:

CHARLES JOY, PE
NV5, INC
101 LUCAS VALLEY ROAD
SAN RAFAEL, CA 94903
307-690-3539

BASIS OF BEARINGS

NORTH 89°23'48" WEST BETWEEN CITY OF SANTA ROSA HORIZONTAL CONTROL NETWORK COORDINATE MONUMENTS G-277 & G-247. NAD83 – ZONE 2 – EPOCH 2010.00

BENCHMARK

CITY OF SANTA ROSA VERTICAL CONTROL NETWORK BENCHMARK E-93. ELEVATION = 105.664' FEET (NGVD 29).

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OWNER/ REPRESENTATIVE INFORMATION:

CITY OF SANTA ROSA
PETER PORATA
TRANSPORTATION AND PUBLIC WORKS DEPARTMENT
69 STONY CIRCLE
SANTA ROSA, CA 95401
PPORATA@SRCITY.ORG
707-543-3865

SCOPE OF WORK:

1. INSTALLATION OF INFRASTRUCTURE TO SUPPORT 16 EVCS. EVCS WILL BE FOR FLEET VEHICLES ONLY AND NOT AVAILABLE FOR THE PUBLIC OR COMMON USE. SECTION 11B-228.3 AND 11B-812 DO NOT APPLY.

PROJECT INFORMATION:

LOCATION: 55 STONY POINT RD, SANTA ROSA CA 95401

1. APN 010320019000

DESIGN CRITERIA:

CALIFORNIA BUILDING CODE (CBC) 2025
CALIFORNIA ELECTRICAL CODE (CEC) 2025
CALIFORNIA FIRE CODE (CFC) 2025

CONCRETE NOTES:

1. CONCRETE COMPRESSIVE STRENGTH: ALL CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH AS SHOWN IN THE TABLE 1 BELOW AT 28 DAYS, U.N.O. ON PLANS. SEE ALSO SULFATE CONTENT NOTES.
2. AGGREGATES IN CONCRETE: SHALL BE NATURAL SAND AND ROCK (150 LB/CU. FT) CONFORMING TO ASTM C33. AGGREGATE SHALL HAVE PROVEN SHRINKAGE CHARACTERISTICS OF LESS THAN 0.04% PER ASTM C157. DO NOT CHANGE SOURCE OF AGGREGATE DURING COURSE OF WORK WITHOUT WRITTEN CONSENT OF ENGINEER.
3. CEMENT: SHALL BE PORTLAND CEMENT CONFORMING TO ASTM C150. CEMENT SHALL BE TYPE II OR AS REQUIRED TO SATISFY SITE SOIL CONDITIONS. REFER TO TABLE 1 FOR MAXIMUM WATER TO CEMENT RATIO. MINIMUM OF 6.5 SACKS OF CEMENT FOR EACH CUBIC YARD OF CONCRETE.

CONCRETE STRENGTH

CONDITION	MIN 28-DAY COMPRESSIVE STRENGTH, F'C	CONCRETE TYPE*	MAXIMUM AGGREGATE SIZE	WATER TO CEMENT RATIO	MAX SLUMP**
SLAB ON GRADE/ CONC PADS	PER CIVIL DETAILS	NWC	0'-1"	0.50	0'-4"

* MAXIMUM DRY WEIGHT OF LIGHTWEIGHT CONCRETE SHALL BE 115 PCF

** SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF SUPERPLASTICIZER (IF USED.)

REBAR CLEAR COVER CONCRETE: THE FOLLOWING MINIMUM CLEAR DISTANCES BETWEEN REINFORCING STEEL AND FACE OF CONCRETE SHALL BE MAINTAINED UNLESS NOTED OTHERWISE:

REBAR CLEAR OVER FOR CAST-IN-PLACE CONCRETE

CONDITION	COVER
CONCRETE CAST AGAINST EARTH	3" MIN
OTHERWISE	2" MIN

4. VIBRATION: VIBRATION OF CONCRETE SHALL BE IN ACCORDANCE WITH GENERAL PROVISIONS OUTLINED IN PORTLAND CEMENT ASSOCIATION SPECIFICATION ST26
5. CURING: CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR A MINIMUM OF FIVE DAYS AFTER PLACEMENT. FOR CONCRETE OTHER THAN SLAB ON GRADE, APPROVED CURING COMPOUNDS MAY BE USED IN LIEU OF MOIST CURING ONLY IF APPROVED BY THE ENGINEER.
6. INSPECTIONS, TESTING & QUALITY ASSURANCE: A MINIMUM OF ONE COMPRESSION TEST AT 7 DAYS AND 2 TESTS AT 28 DAYS FOR ALL CONCRETE SAMPLES. TAKE TEST AT A FREQUENCY OF ONCE EVERY 150 CU. YDS OR 5,000 SQ. FT MINIMUM.
7. ANCHOR BOLTS, DOWELS, INSERTS: SHALL BE TIED IN PLACE PRIOR TO POURING CONCRETE.
8. CONSTRUCTION AND POUR JOINTS: LOCATIONS SHALL BE APPROVED BY ENGINEER PRIOR TO POURING CONCRETE.
9. FORMWORK: FORMWORK TOLERANCE SHALL BE IN ACCORDANCE WITH THE C.B.C. AND A.C.I. STANDARDS.
10. PIPES IN CONCRETE: PIPES MAY PASS THROUGH STRUCTURAL CONCRETE IN SLEEVES BUT SHALL NOT BE EMBEDDED THEREIN. PIPES OR DUCTS EXCEEDING ONE-THIRD THE SLAB OR WALL THICKNESS SHALL NOT BE PLACED IN THE STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED.
11. EXPOSED CORNERS: PROVIDE ¾" CHAMFERS AT ALL EXPOSED CORNERS.
12. DRYPACK OR GROUT: CONCRETE STRENGTH SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI AND BE COMPOSED OF ONE PART PORTLAND CEMENT TO NOT MORE THAN THREE PARTS SAND.
13. FLY ASH: NOT PERMITTED.

CONCRETE NOTES:

1. ALLOWABLE BEARING PRESSURE IS ASSUMED TO BE 1,000PSF.

APPROVED: DEPUTY DIRECTOR - ENGINEERING SERVICES
BY _____ DATE 11/05/2026
CHRISTA SIEGENTHALER

DESIGN/CONST	Gregory Mayfield	11/04/2026
MATERIALS LAB		11/04/2026
PARKS & REC		
SURVEY		11/04/2026
TRAFFIC		
TRANSIT		11/05/2026
WATER - ENG		
WATER - OPS		
DEPT.	SIGNATURE	DATE

REGISTERED PROFESSIONAL ENGINEER RICHARD S. TOMLINSON 59276 CIVIL STATE OF CALIFORNIA

CITY OF SANTA ROSA APPROVED
Permit No. B26-4126
Date 11/3/2026
Review and approval of these documents is based upon compliance with the 2025 California Code of Regulations, Title 24, and all applicable City of Santa Rosa ordinances and State of California laws.
Kevin Saldivar
Building Division Authorization Signature

City of Santa Rosa

NO.	DATE	
1	10/27/26	CITY OF SANTA ROSA COMMENT RESPONSE REVISION

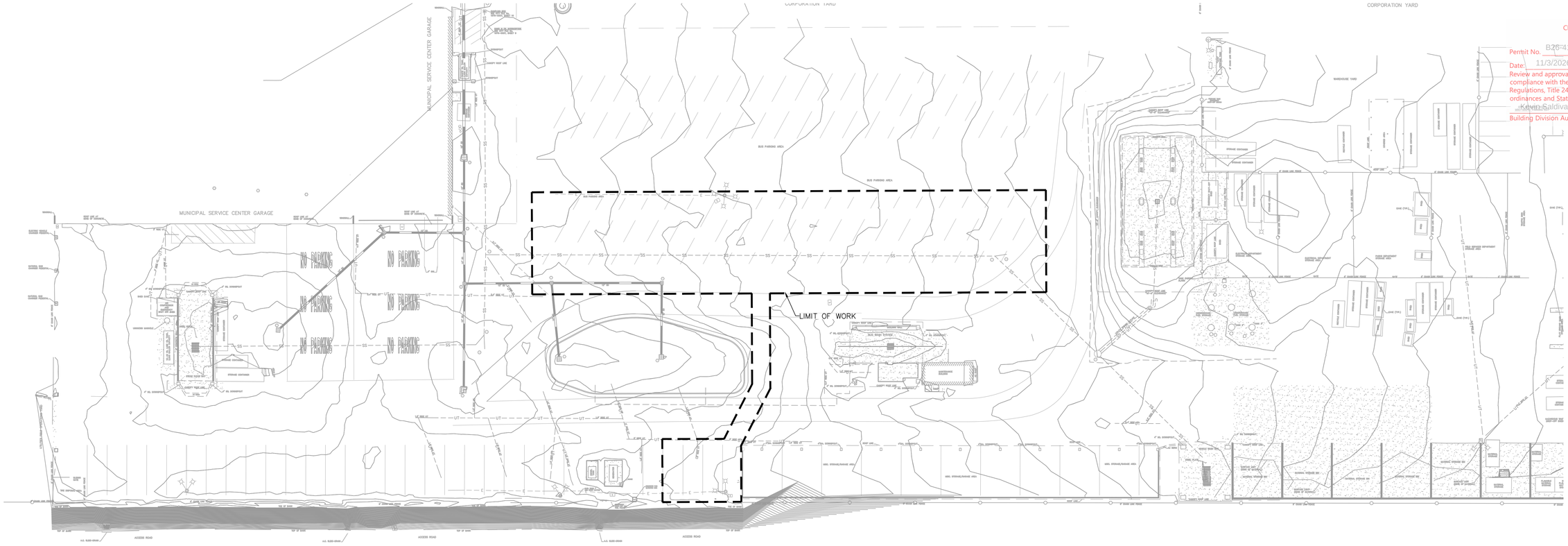
CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

TITLE SHEET

CHK BY:	RT
DATE:	OCT 2026
DWN BY:	NN
SCALE:	AS SHOWN
CONTRACT NO.	C02507
SHEET	1 OF 14
FILE NO.	2025-0028

T1

\\W5.COM\PANZURA\BFS\CLIENDENGR\C568\SHARED\CLOUD\PROJECTS\33041 CITY OF SANTA ROSA\03 - DESIGN (DWG)\02-DESIGN - DRAWINGS\02-NV5 TEAM DRAWINGS_CAD\CIVIL\SRT-TS.DWG (10-12-26 4:46:57PM)



REGISTERED PROFESSIONAL ENGINEER
RICHARD S. TOMLINSON, JR.
59276
CIVIL
STATE OF CALIFORNIA
STAMP

CITY OF SANTA ROSA
APPROVED
Permit No. B26-4126
Date: 11/3/2026
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Building Division Authorization Signature

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NO.	DATE	REVISION	BY
1	10/27/26	CITY OF SANTA ROSA COMMENT RESPONSE	NV5

CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

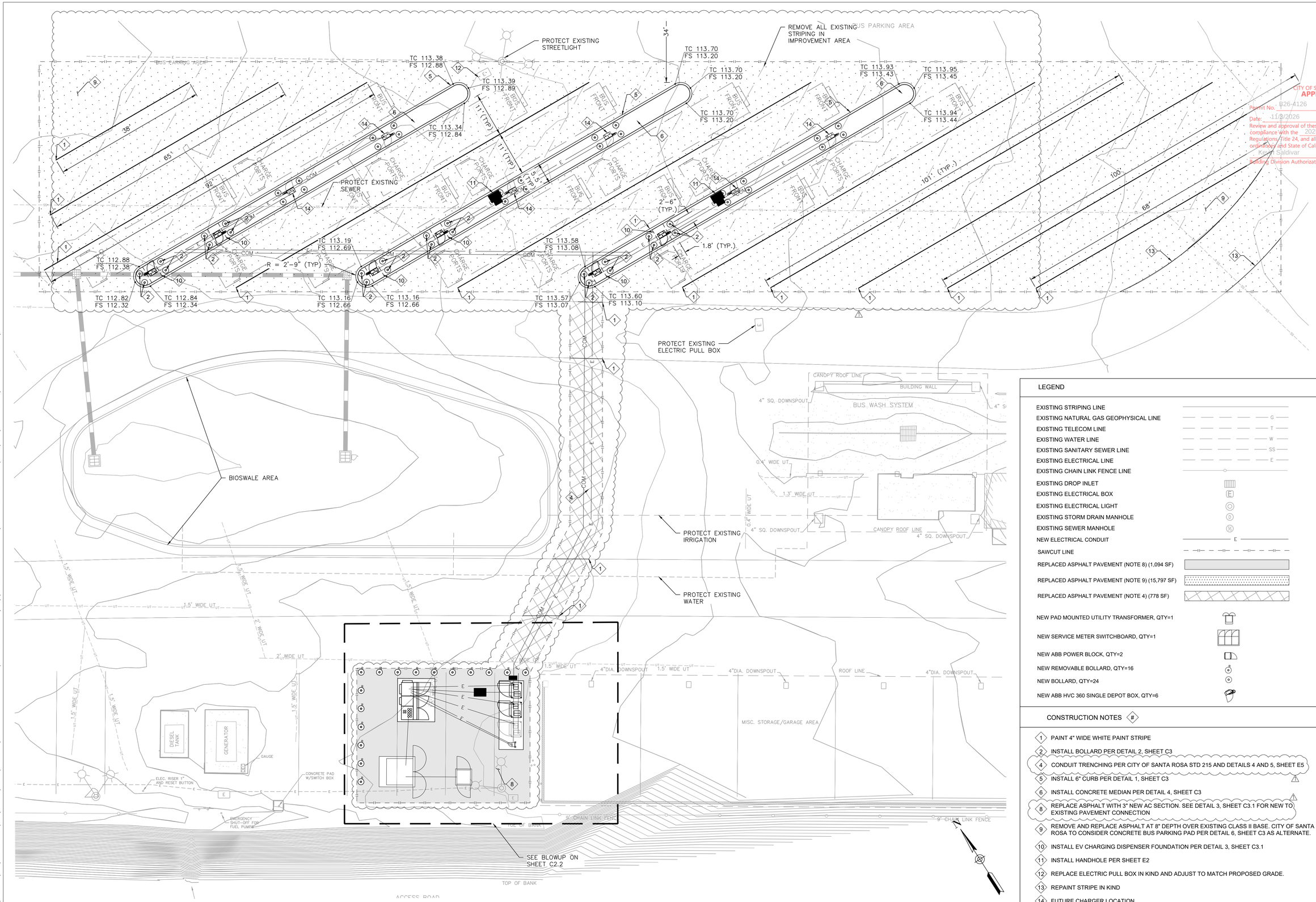
OVERALL SITE PLAN

CHK BY:	RT
DATE:	OCT 2026
DWN BY:	NN
SCALE:	AS SHOWN
CONTRACT NO.	C02507
SHEET	2 OF 14
FILE NO.	2025-0028

C1

0' 30' 60' 90'
SCALE 1"= 30'

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LEGEND

- EXISTING STRIPING LINE
- EXISTING NATURAL GAS GEOPHYSICAL LINE — G
- EXISTING TELECOM LINE — T
- EXISTING WATER LINE — W
- EXISTING SANITARY SEWER LINE — SS
- EXISTING ELECTRICAL LINE — E
- EXISTING CHAIN LINK FENCE LINE
- EXISTING DROP INLET
- EXISTING ELECTRICAL BOX (E)
- EXISTING ELECTRICAL LIGHT
- EXISTING STORM DRAIN MANHOLE (D)
- EXISTING SEWER MANHOLE (S)
- NEW ELECTRICAL CONDUIT — E
- SAWCUT LINE
- REPLACED ASPHALT PAVEMENT (NOTE 8) (1,094 SF)
- REPLACED ASPHALT PAVEMENT (NOTE 9) (15,797 SF)
- REPLACED ASPHALT PAVEMENT (NOTE 4) (778 SF)
- NEW PAD MOUNTED UTILITY TRANSFORMER, QTY=1
- NEW SERVICE METER SWITCHBOARD, QTY=1
- NEW ABB POWER BLOCK, QTY=2
- NEW REMOVABLE BOLLARD, QTY=16
- NEW BOLLARD, QTY=24
- NEW ABB HVC 360 SINGLE DEPOT BOX, QTY=6

CONSTRUCTION NOTES (#)

1. PAINT 4" WIDE WHITE PAINT STRIPE
2. INSTALL BOLLARD PER DETAIL 2, SHEET C3
4. CONDUIT TRENCHING PER CITY OF SANTA ROSA STD 215 AND DETAILS 4 AND 5, SHEET E5
5. INSTALL 6" CURB PER DETAIL 1, SHEET C3
6. INSTALL CONCRETE MEDIAN PER DETAIL 4, SHEET C3
8. REPLACE ASPHALT WITH 3" NEW AC SECTION. SEE DETAIL 3, SHEET C3.1 FOR NEW TO EXISTING PAVEMENT CONNECTION
9. REMOVE AND REPLACE ASPHALT AT 8" DEPTH OVER EXISTING CLASS II BASE. CITY OF SANTA ROSA TO CONSIDER CONCRETE BUS PARKING PAD PER DETAIL 6, SHEET C3 AS ALTERNATE.
10. INSTALL EV CHARGING DISPENSER FOUNDATION PER DETAIL 3, SHEET C3.1
11. INSTALL HANDHOLE PER SHEET E2
12. REPLACE ELECTRIC PULL BOX IN KIND AND ADJUST TO MATCH PROPOSED GRADE.
13. REPAINT STRIPE IN KIND
14. FUTURE CHARGER LOCATION

0' 10' 20' 30'
SCALE 1"= 10'

REGISTERED PROFESSIONAL ENGINEER — RICHARD S. TOMLINSON, JR. — 59276 — CIVIL — STATE OF CALIFORNIA — STAMP

CITY OF SANTA ROSA
APPROVED
Permit No. B26-A126
Date: 11/5/2026
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CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

CIVIL SITE PLAN

CHK BY:	RT
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SHEET	3 OF 14
FILE NO.	2025-0028

C2

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LEGEND

EXISTING STRIPING LINE

EXISTING NATURAL GAS GEOPHYSICAL LINE — G

EXISTING TELECOM LINE — T

EXISTING WATER LINE — W

EXISTING SANITARY SEWER LINE — SS

EXISTING ELECTRICAL LINE — E

EXISTING CHAIN LINK FENCE LINE

EXISTING DROP INLET

EXISTING ELECTRICAL BOX

EXISTING ELECTRICAL LIGHT

EXISTING STORM DRAIN MANHOLE

EXISTING SEWER MANHOLE

NEW ELECTRICAL CONDUIT — E

SAWCUT LINE

REPLACED ASPHALT PAVEMENT (NOTE 8)

REPLACED ASPHALT PAVEMENT (NOTE 9) (15,315 SF)

NEW 1500 KVA PAD MOUNTED UTILITY TRANSFORMER, QTY=1

NEW SERVICE METER SWITCHBOARD, QTY=1

NEW ABB POWER BLOCK, QTY=2

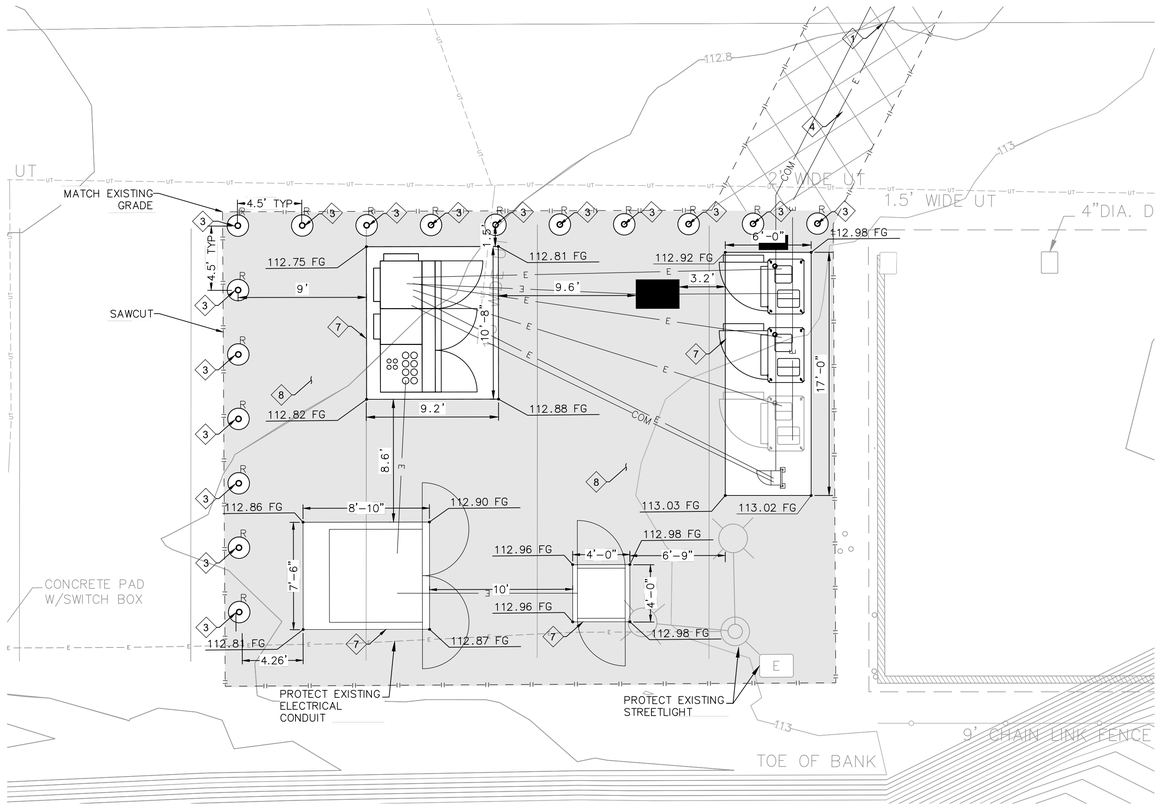
NEW REMOVABLE BOLLARD, QTY =16

NEW BOLLARD, QTY= 0

NEW ABB HVC 360 SINGLE DEPOT BOX, QTY=6

CONSTRUCTION NOTES (#)

1. PAINT 4" WIDE WHITE PAINT STRIPE
3. INSTALL REMOVABLE BOLLARD PER DETAIL 5, SHEET C3
4. CONDUIT TRENCHING PER CITY OF SANTA ROSA STD 215 AND DETAILS 4 AND 5, SHEET E5
7. INSTALL EQUIPMENT PAD PER DETAIL 1, SHEET C3.1
8. REPAIR ASPHALT IN KIND. MATCH ASPHALT SECTION FOUND IN FIELD. SEE DETAIL 3 FOR NEW TO EXISTING PAVEMENT CONNECTION



0' 5' 10' 15

SCALE 1"= 5'

REGISTERED PROFESSIONAL ENGINEER — RICHARD S. TOMLINSON, JR. — 59276 — CIVIL — STATE OF CALIFORNIA — STAMP

CITY OF SANTA ROSA
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Permit No. B26-4126
Date: 11/3/2026
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Kevin Saldivar
Building Division Authorization Signature

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NO.	DATE	REVISION	BY
1	10/27/26	CITY OF SANTA ROSA COMMENT RESPONSE	NVS

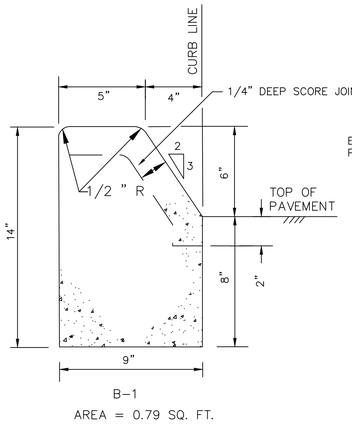
CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

ENLARGED EQUIPMENT LAYOUT

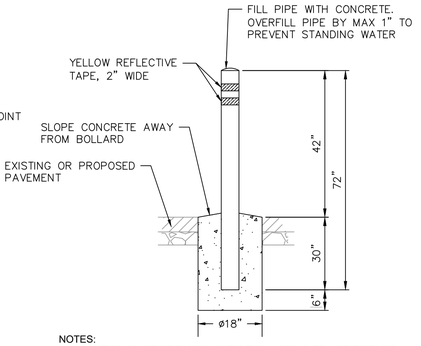
CHK BY:	RT
DATE:	OCT 2026
DWN BY:	NN
SCALE:	AS SHOWN
CONTRACT NO.	C02507
SHEET	4 OF 14
FILE NO.	2025-0028

C2.2

\\WV5.COM\PANZURA\BTS\CLEANENERGY\598\SHARED\CLOUD\PROJECTS\23041 CITY OF SANTA ROSA\03 - EXSE DESIGN (QKA)\02-DESIGN - DRAWINGS\02-WV5 TEAM DRAWINGS_CAD\CIVIL\SRT-IMP2.DWG (10-12-26 4:47:18PM)

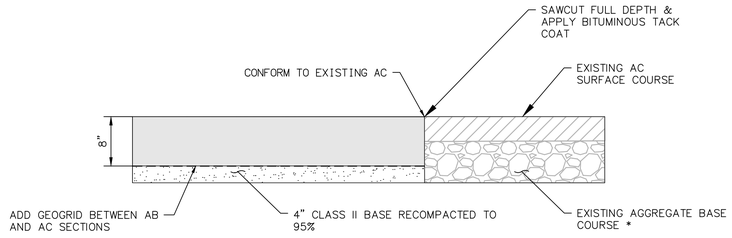


1 6" CURB
N.T.S.



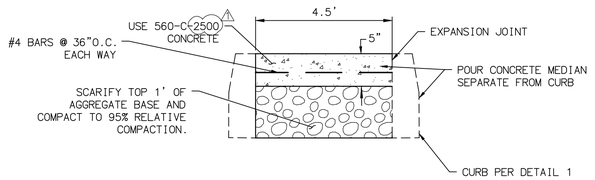
NOTES:
1. CAUTION MUST BE TAKEN WHEN EXCAVATING TO NOT DISTURB EXISTING UNDERGROUND UTILITIES.
2. CONCRETE SHALL BE 2500 PSI MINIMUM AT 28 DAYS
3. USE 4 INCH PLAIN STEEL PIPE, WITH A MINIMUM WALL THICKNESS OF 0.185 INCHES. THE PIPE SHALL BE PRIMED WITH AN OIL-BASED PRIMER AND PAINTED YELLOW.

2 BOLLARD WITH FOUNDATION
N.T.S.



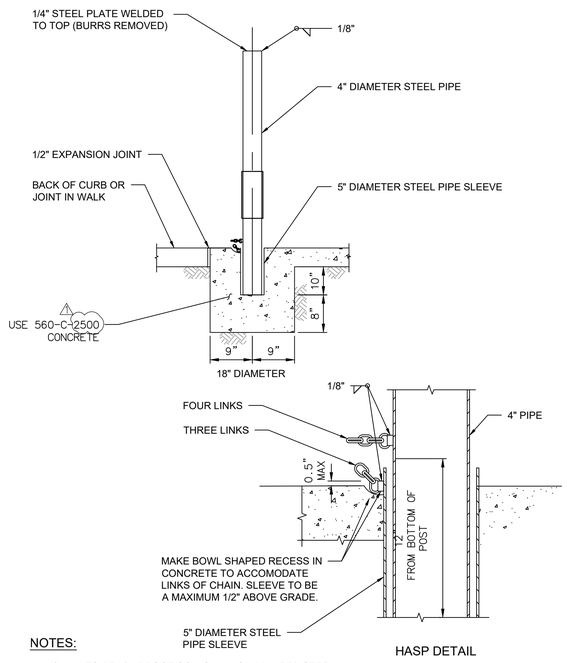
* TO BE PROTECTED AND TO REMAIN UNDISTURBED TO PREVENT LOSS OF DENSITY AND SUPPORT UNDER EXISTING BITUMINOUS PAVEMENT.

3 NEW TO EXISTING AC PAVEMENT TRANSITION
N.T.S



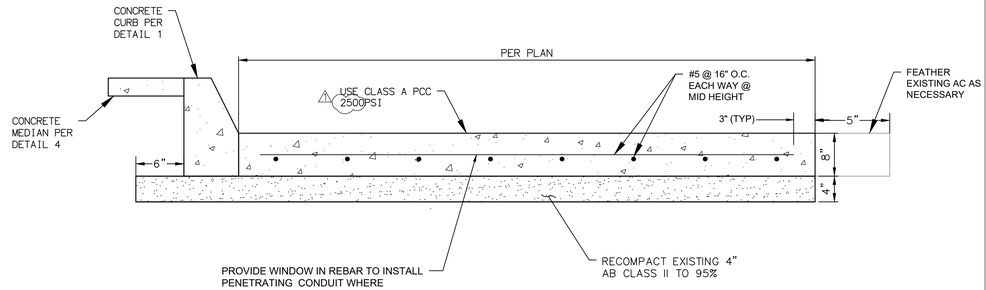
NOTE:
1. SCORE JOINTS @ 5' INTERVALS, WEAKENED PLANE JOINTS @ 15' INTERVALS, EXPANSION JOINTS @ END OF RETURN AND @ 60' INTERVALS.
2. ALL HARDSCAPE IN PEDESTRIAN AREAS SHALL COMPLY WITH CBC 11B-303 AND 11B-302.1

4 CONCRETE MEDIAN
N.T.S



NOTES:
1. CHAIN TO BE 1/4" PROOF COIL CHAIN GALVANIZED STEEL. WELD FOUR LINKS TO POST AND THREE LINKS TO PIPE SLEEVE.
2. ALL METAL TO BE HOT-DIP GALVANIZED AFTER FABRICATION.

5 REMOVABLE BOLLARD
N.T.S.



6 CONCRETE BUS PARKING PAD
N.T.S ALTERNATE 1

REGISTERED PROFESSIONAL ENGINEER
RICHARD S. TOMLINSON, JR.
59276
CIVIL
STATE OF CALIFORNIA
STAMP

CITY OF SANTA ROSA
APPROVED
Permit No. B26-4126
Date: 11/3/2026
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Kevin Saldivar
Building Division Authorization Signature

City of Santa Rosa

NO.	DATE	BY
1	10/27/26	NV5

CITY OF SANTA ROSA COMMENT RESPONSE

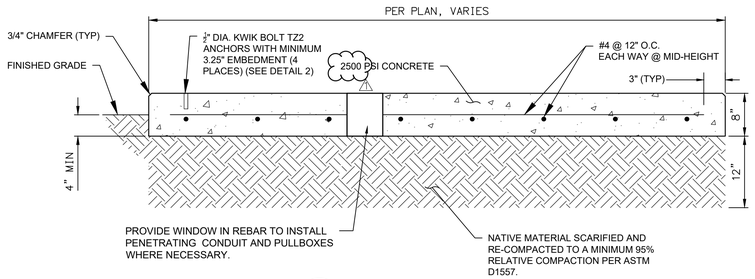
CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

CIVIL DETAILS

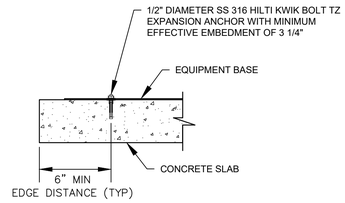
CHK BY:	RT
DATE:	OCT 2026
DWN BY:	NN
SCALE:	AS SHOWN
CONTRACT NO. C02507	
SHEET 5 OF 14	
FILE NO. 2025-0028	

C3

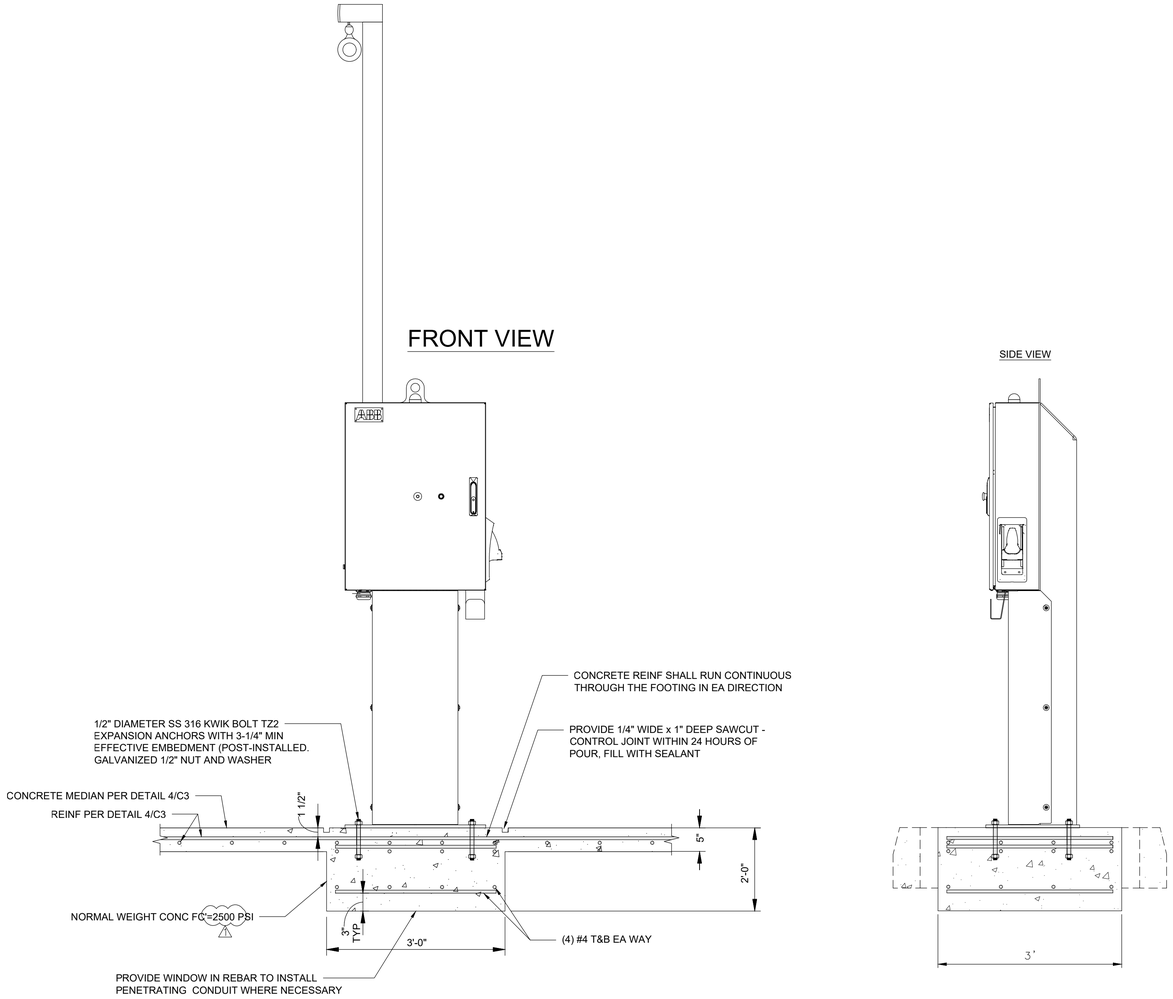
\\NV5.COM\PANZURA\BTS\CLEANENERGY\598\SHARED\CLOUD\PROJECTS\23041 CITY OF SANTA ROSA\03 - EVSE DESIGN (QMA)\02-DESIGN - DRAWINGS\02-NV5 TEAM DRAWINGS_CAD\CIVIL\SRT-DET.DWG (10-12-26 4:47:57PM)



1 CONCRETE PAD FOUNDATION
N.T.S.



2 TYPICAL EQUIPMENT ANCHORAGE
N.T.S.



3 EV CHARGING DISPENSER FOUNDATION
N.T.S

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		CITY OF SANTA ROSA COMMENT RESPONSE
		REVISION

CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

CIVIL DETAILS

CHK BY:	RT
DATE:	OCT 2026
DWN BY:	NN
SCALE:	AS SHOWN
CONTRACT NO. C02507	
SHEET 6 OF 14	
FILE NO. 2025-0028	

C3.1

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EROSION CONTROL NOTES

1. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY EROSION CONTROL DEVICES WHEN RAIN IS IMMINENT.

2. THE TRADE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.

3. ALL EROSION CONTROL DEVICES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON.

4. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.

5. ALL REMOVABLE PROTECTIVE EROSION CONTROL DEVICES SHOWN SHALL BE IN PLACE WITHIN 24 HOURS OF A FORECAST RAIN EVENT (50% PROBABILITY OR GREATER). DEBRIS SHALL BE REMOVED AFTER EACH RAINFALL.

6. ALL GRAVEL BAGS SHALL BE BURLAP OR GEOTEXTILE FABRIC TYPE WITH 3/4" MINIMUM AGGREGATE.

7. SHOULD GERMINATION OF HYDROSEEDED SLOPES FAIL TO PREVENT EFFECTIVE COVERAGE OF GRADED SLOPES (90 COVERAGE) PRIOR TO NOVEMBER 1, THE SLOPES SHALL BE STABILIZED BY PUNCHED STRAW INSTALLED IN ACCORDANCE WITH SECTION 35.023 OF THE EROSION AND SEDIMENT CONTROL HANDBOOK OF THE DEPARTMENT OF CONSERVATION, STATE OF CALIFORNIA.

8. THE PLANS SHALL INCLUDE DUST SUPPRESSION PLANS WITH SCHEDULING FOR DUST SUPPRESSANTS, WET DUST SUPPRESSANT TECHNIQUES, COVERING OF STOCKPILED SOILS. ENCLOSURE AND SOIL STABILIZERS, AND COMPRESSES CHUTES, LADDERS AND HINGED BROWN STACKER CONVERYEORS. TRADE CONTRACTOR MUST COMPLY WITH COUNTY OF SAN DIEGO AIR POLLUTION CONTROL DISTRICT RULES 50, 51, AND 52. ALSO, MUST COMPLY WITH RWQCB ORDER #2009-0009DWQ.

9. ALL BARE SLOPES AND DISTURBED AREAS SHALL BE PLANTED AS EACH STAGE OF GRADING IS COMPLETED. SUITABLE MEASURES TO PREVENT SLOPE EROSION, INCLUDING, BUT NOT LIMITED TO, RAPID GROWING VEGETATION SUFFICIENT TO STABILIZE THE SOIL SHOULD BE INSTALLED ON ALL AREAS, AND/OR SUCH AREAS SHOULD BE MULCHED, WHILE THE PERMANENT VEGETATION COVER MATURES ENOUGH TO PROVIDE STABILITY

10. ALL DISTURBED SURFACES SHOULD BE PREPARED AND MAINTAINED TO ESTABLISH NATIVE OR NATURALIZED PERMANENT VEGETATION COMPATIBLE WITH THE SOILS IN THE AREA. PLANTS WITH HIGH WILDLIFE VALUE SHOULD BE USED AND INVASIVE SPECIES SUCH AS PAMPAS GRASS OR FRENCH BROOM SHALL NOT BE INCORPORATED INTO THE DESIGN. MULCHING, FERTILIZING AND AN IRRIGATION SYSTEM SHOULD BE UTILIZED TO ESTABLISH THE NEW PERMANENT VEGETATION, THE TOP SOIL SHALL BE STOCKPILES AND REAPPLIED UPON COMPLETION OF GRADING ON SLOPES OF LESS THAN TWENTY FIVE PERCENT (25%). SOIL STOCKPILES AND EXPOSED SOIL SHALL BE PROTECTED AGAINST EROSION AT ALL TIMES.

11. CONSTRUCTION MATERIALS DELIVERED TO THE SITE SHALL BE STORED THROUGHOUT THE SITE. THE TRADE CONTRACTOR SHALL STORE THE MATERIAL AS TO MINIMIZE THE RISK OF STORM WATER POLLUTION, GROUND WATER POLLUTION, SOIL CONTAMINATION AND INJURY TO WORKERS AND VISITORS.

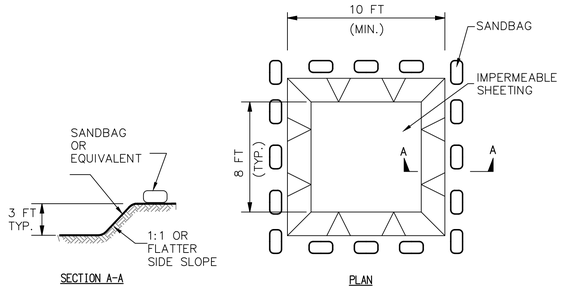
12. EQUIPMENT TO BE STORED, FUELED AND MAINTAINED ON SITE SHALL BE FUELED AWAY FROM ANY DRAINAGE COURSES AND IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE TRADE CONTRACTOR SHALL DETERMINE LOCATION OF EQUIPMENT STORAGE AREA AS APPROVED BY UNIVERSITY REPRESENTATIVE. ANY FUEL STORAGE SHALL CONFORM TO CITY OF SAN DIEGO STANDARDS & CALTRANS STANDARDS.

13. CONSTRUCTION MATERIALS SHALL BE STORED IN STAGING AREAS ON-SITE UNTIL NEEDED FOR INSTALLATION. WASTE WILL EITHER BE PLACED IN DUMPSTERS OR IN WASTE CONTAINMENT AREAS. ALL WASTE WILL BE TRANSPORTED OFF-SITE IN A TIMELY MANNER TO APPROVED WASTE DISPOSAL AREAS (DUMPS). STORAGE, HANDLING AND TRANSPORTATION OF WASTE SHALL BE IN ACCORDANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.

14. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED. MAINTENANCE SHALL INCLUDE REMOVAL OF SILT FROM BARRIERS AND SEDIMENTATION DEVICES, SEEDING OR MULCHING OF DAMAGED STABILIZED AREAS AND REPLACEMENT OR REPAIR OF WORN OR DAMAGED GEOTEXTILE FABRIC.

15. TRADE CONTRACTOR SHALL PROVIDE ADEQUATE BMP SUPPLIES TO PROTECT EXPOSED DIRT DURING RAIN EVENTS.

A NOT USED
N.T.S.

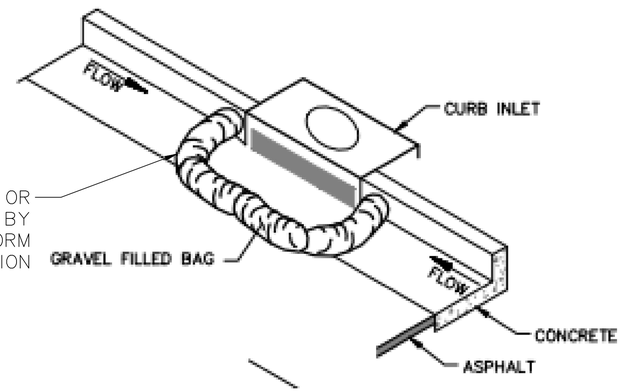


SECTION A-A

PLAN

B CONCRETE WASHOUT
N.T.S.

PIG SEDIMENT FILTER SOCK OR EQUIVALENT APPROVED BY CITY OF SANTA ROSA STORM WATER & CREEKS DIVISION



C PIG SEDIMENT FILTER SOCK
N.T.S.

REGISTERED PROFESSIONAL ENGINEER
RICHARD S. TOMLINSON, JR.
59276
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STAMP

CITY OF SANTA ROSA
APPROVED
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Building Division Authorization Signature

City of Santa Rosa

NO.	DATE	REVISION	BY
1	10/27/26	CITY OF SANTA ROSA COMMENT RESPONSE	NV5

CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

EROSION CONTROL NOTES AND DETAILS

CHK BY:	RT
DATE:	OCT 2026
DWN BY:	NN
SCALE:	AS SHOWN
CONTRACT NO. C02507	
SHEET 7 OF 14	
FILE NO. 2025-0028	

C4

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REGISTERED PROFESSIONAL ENGINEER
RICHARD S. TOMLINSON, JR.
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STATE OF CALIFORNIA
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CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

EROSION CONTROL PLAN - WPCP

CHK BY:	RT
DATE:	OCT 2026
DWN BY:	NN
SCALE:	AS SHOWN
CONTRACT NO.	C02507
SHEET	8 OF 14
FILE NO.	2025-0028

C4.1

LEGEND (#)

(1) CONCRETE WASHOUT (WM-8). SEE DETAIL B, SHEET 7.

(2) PIG SEDIMENT FILTER SOCK OR EQUIVALENT APPROVED BY CITY OF SANTA ROSA STORM WATER & CREEKS DIVISION. PLACE SANDBAGS EVERY FOUR FEET ON TOP OF FILTER SOCK. SEE DETAILS C, SHEET 7.

0' 10' 20' 30'
SCALE 1"= 10'

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GENERAL NOTES

1. ALL EQUIPMENT SHALL BE LOCKABLE OR GUARDED AGAINST ACCESS BY UNQUALIFIED PERSONS.

2. EXPOSED NON-CURRENT CARRYING METAL PARTS OF ALL EQUIPMENT AND ENCLOSURES SHALL BE GROUNDED IN ACCORDANCE WITH CEC 250.134 AND 250.136(A). GROUND INVERTERS IN ACCORDANCE WITH LISTING.

3. CONDUIT ROUTING IS DIAGRAMMATIC, EXACT ROUTING TO BE VERIFIED BY CONTRACTOR. CONTRACTOR TO LOCATE AND AVOID ALL UNDERGROUND INTERFERENCES.

4. ALL SPARE CONDUITS SHALL BE PROPERLY CAPPED AND INCLUDE (2) SUFFICIENTLY RATED PULL STRINGS PER CONDUIT.

5. ALL NEW OUTDOOR EQUIPMENT TO BE NEMA 3R RATED WITH PADLOCKABLE DOOR(S).

6. EXISTING UNDERGROUND UTILITIES PRESENT. POTHOLING, GPR OR OTHER MEANS OF UNDERGROUND UTILITY IDENTIFICATION ARE TO BE EXPECTED. CONTRACTOR RESPONSIBLE FOR DETERMINING FINAL UNDERGROUND CONDUIT ROUTING BASED ON EXISTING CONDITIONS.

7. THE METHODS CONTAINED IN CEC/NEC ARTICLE 250 SHALL BE FOLLOWED TO COMPLY WITH GROUNDING AND BONDING OF ELECTRICAL SYSTEMS AND NON-CURRENT CARRYING CONDUCTIVE MATERIALS, ENCLOSURES, OR ITEMS FORMING PART OF ANY SUCH EQUIPMENT THAT ENCLOSES OR CARRIES ELECTRICAL CONDUCTOR OR EQUIPMENT THAT IS LIKELY TO BECOME ENERGIZED. SEE CEC/NEC 250.4(A)(1) THROUGH (5) FOR FURTHER DESCRIPTION,

8. WHERE TWO OR MORE GROUND RODS ARE TO BE INSTALLED, THE MINIMUM SEPARATION SHALL BE 6' PER CEC/NEC 250.53 (A)(2), AND (3) RESISTANCE OF ELECTRODES.

9. ALL CONDUITS SHALL COMPLY WITH CEC/NEC TABLE 300.5 MINIMUM BURIAL DEPTH.

10. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE NEW AND SHALL BE LISTED BY UNDERWRITER'S LABORATORIES (UL) AND BEAR THEIR LABEL, OR LISTED AND CERTIFIED BY A NATIONALLY RECOGNIZED TESTING AUTHORITY WHERE UL DOES NOT HAVE A LISTING. CUSTOM MADE EQUIPMENT SHALL HAVE COMPLETE TEST DATA SUBMITTED BY THE MANUFACTURER ATTESTING TO ITS SAFETY. IN ADDITION, THE MATERIALS, EQUIPMENT, AND INSTALLATION SHALL COMPLY WITH THE REQUIREMENTS OF THE FOLLOWING:

    AMERICAN SOCIETY OF TESTING MATERIALS (ASTM)
    INSULATED POWER CABLE ENGINEERS ASSOCIATION (IPCEA)
    NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
    AMERICAN STANDARD ASSOCIATION (ASA)
    NATIONAL FIRE PROTECTION AGENCY (NFPA)
    AMERICAN NATIONAL STANDARD INSTITUTE (ANSI)
    INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
    ALL LOCAL CODES HAVING JURISDICTION.

    WHERE THE CODES HAVE DIFFERENT LEVELS OF REQUIREMENTS, THE MOST STRINGENT RULE SHALL APPLY.

11. THE CONTRACTOR SHALL COORDINATE WORK WITH OTHER TRADES AT THE SITE. ANY COSTS TO INSTALL WORK TO ACCOMPLISH SAID COORDINATION WHICH DIFFERS FROM THE WORK AS SHOWN ON THE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR. ANY DISCREPANCIES, AMBIGUITIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR CLARIFICATION.

12. THE CONTRACTOR SHALL PROVIDE AND KEEP UP-TO-DATE A COMPLETE RECORD SET OF DRAWINGS. THESE PRINTS SHALL BE CORRECTED DAILY AND SHOW EVERY CHANGE FROM THE ORIGINAL DRAWINGS. THIS SET OF DRAWINGS SHALL BE KEPT ON THE JOB SITE AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTOR TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE. UPON COMPLETION OF THE WORK, A SET OF REPRODUCIBLE CONTRACT DRAWINGS SHALL BE OBTAINED FROM THE ENGINEER, AND ALL CHANGES AS NOTED ON THE RECORD SET OF DRAWINGS SHALL BE INCORPORATED THEREON WITH BLACK INK IN A NEAT, LEGIBLE, UNDERSTANDABLE AND PROFESSIONAL MANNER. FAILURE TO KEEP RECORD DRAWINGS UP-TO-DATE SHALL CONSTITUTE CAUSE FOR WITHHOLDING OF PROGRESS PAYMENTS.

13. ALL INTERRUPTION OF ELECTRICAL POWER SHALL BE KEPT TO A MINIMUM. HOWEVER, WHEN AN INTERRUPTION IS NECESSARY, THE SHUTDOWN MUST BE COORDINATED WITH THE CLIENT 14 DAYS PRIOR TO THE OUTAGE.

14. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE TEMPORARY POWER FACILITIES AND CONNECTIONS FOR ALL FEEDERS OR SYSTEMS BEING DISCONNECTED IN ORDER TO MAINTAIN SYSTEMS IN OPERATION OR WHERE SAID FEEDERS OR SYSTEMS REQUIRE EMERGENCY STANDBY POWER.

15. AFTER ALL REQUIREMENTS OF THE DRAWINGS HAVE BEEN FULLY COMPLETED, REPRESENTATIVES OF THE OWNER WILL INSPECT THE WORK. THE CONTRACTOR SHALL PROVIDE COMPETENT PERSONNEL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.

16. ALL FINAL CONNECTIONS TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE CONTRACTOR.

17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAW CUTTING, TRENCHING, REMOVAL, BACKFILLING, COMPACTION AND PATCHING OF CONCRETE AS REQUIRED TO PERFORM THEIR WORK. ATTENTION IS CALLED TO THE FACT THAT THERE ARE EXISTING UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL USE EXTREME CAUTION WHEN TRENCHING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER AND APPROVED REPAIR OF ANY AND ALL DAMAGES CAUSED.

18. WHENEVER A DISCREPANCY IN QUANTITY OR SIZE OF CONDUIT, WIRE, EQUIPMENT DEVICES, CIRCUIT BREAKERS, GROUND FAULT PROTECTION SYSTEMS, ETC. (ALL MATERIALS), ARISES ON THE DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING ALL MATERIAL AND SERVICES REQUIRED BY THE STRICTEST CONDITIONS NOTED ON THE DRAWINGS OR IN THE SPECIFICATIONS TO ENSURE COMPLETE AND OPERABLE SYSTEMS AS REQUIRED BY THE ENGINEER.

19. REFER TO SINGLE LINE DIAGRAM AND FEEDER SCHEDULES FOR CONDUIT AND CONDUCTOR SIZE TO PANELS, ETC. CONDUIT RUNS MAY NOT BE SHOWN ON DRAWINGS, BUT ARE PART OF THIS CONTRACT.

20. STRAIGHT FEEDER, BRANCH CIRCUIT, AND CONDUIT RUNS SHALL BE PROVIDED WITH SUFFICIENT PULL BOXES OR JUNCTION BOXES TO LIMIT THE MAXIMUM LENGTH OF ANY SINGLE CABLE. PULL BOXES SHALL BE SIZED PER CODE OR AS INDICATED ON DRAWINGS. LOCATIONS SHALL BE DETERMINED IN THE FIELD OR AS INDICATED ON THE DRAWINGS.

21. WHERE MULTI-HOMERUNS ARE INDICATED ON DRAWINGS INDICATING THE SAME PANELBOARD CIRCUIT NUMBER, PROVIDE JUNCTION BOX AND ROUTE ONE SET OF WIRES TO CIRCUIT BREAKERS.

22. IDENTIFICATION NAMEPLATES SHALL BE MICARTA 1/8 INCH THICK AND OF APPROVED SIZE WITH BEVELED EDGES AND ENGRAVED WHITE LETTERS A MINIMUM OF 1/4 INCH HIGH ON BLACK BACKGROUND. NAMEPLATES SHALL BE PROVIDED FOR ALL CIRCUITS IN THE SERVICE DISTRIBUTION OR PANELBOARDS. ALL NAMEPLATES SHALL BE ATTACHED WITH ADHESIVE.

23. DRAWINGS ARE DIAGRAMMATIC ONLY. DO NOT SCALE THE ELECTRICAL DRAWINGS FOR LOCATIONS OF ANY ELECTRICAL, ARCHITECTURAL, STRUCTURAL, CIVIL, OR MECHANICAL ITEMS OR FEATURES.

24. CUTTING, BORING, SAW CUTTING OR DRILLING THROUGH THE NEW OR EXISTING STRUCTURAL ELEMENTS TO BE DONE ONLY WHEN SO DETAILED ON THE DRAWINGS OR ACCEPTED BY THE ENGINEER.

25. ALL EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL CONDUIT, SCH. 40, WHERE EXPOSED TO POSSIBLE PHYSICAL DAMAGE. ALL OTHER OUTDOOR CONDUIT TO BE EMT RAIN-TIGHT FITTINGS. ALL INDOOR TO BE EMT SET SCREW STEEL. CONDUIT UNDERNEATH STREETS OR LOCATIONS WITH VEHICLE ACCESS SHALL BE PVC SCH. 80 PVC.

26. CONTRACTOR SHALL PROVIDE LAMINATE RED NAMEPLATE ON ALL DISCONNECT SWITCHES, WITH CIRCUIT DESCRIPTIONS AND NUMBER.

27. ELECTRICAL GROUNDING SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE.

28. OVERCURRENT PROTECTION SHALL COMPLY WITH CEC ARTICLE 240.

29. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST ADOPTED CEC AND NESC CODES AND STANDARDS AND SHALL CONFORM WITH INDUSTRY BEST PRACTICES AND IEE RECOMMENDATIONS. THE AHJ HAS FINAL JURISDICTIONAL AUTHORITY ON CODE APPLICATION AND COMPLIANCE.

30. CONTRACTOR IS RESPONSIBLE TO INSTALL UNDERGROUND CONDUIT SYSTEM AND RESTORE ALL SURFACES REGARDLESS OF TYPE. (LANDSCAPE, PAVING, CEMENT OR OTHER)

31. CONTRACTOR IS RESPONSIBLE TO PROVIDE CATEGORY 6 OR FIBER CONNECTION FOR DATA CONNECTIONS.

32. CONTRACTOR IS RESPONSIBLE TO SUPPLY UTILITY METERING, SWITCHBOARD AND ALL THEIR COMPONENTS NECESSARY TO CONNECT EV CHARGERS TO THE DISTRIBUTION SYSTEM.

33. CONTRACTOR SHALL BE RESPONSIBLE TO PRE-COMMISSION AND PROVIDE A FULLY OPERATIONAL SYSTEM AND, FINAL COMMISSIONING.

ELECTRICAL SYMBOLS

CONDUIT STUBBED OUT AND CAPPED. PULL LINE IN PLACE.

GROUND, "GND".

B-1,3 — CONDUIT HOMERUN TO PANELBOARD. LETTER AND NUMERALS INDICATE ELECTRICAL PANEL AND CIRCUIT NUMBER.

#A / #P — CIRCUIT BREAKER, #A DENOTES AMPACITY, #P DENOTES POLE QTY.

— FUSE, # DENOTES SIZE

NON-FUSED DISCONNECT SWITCH.

FUSED DISCONNECT SWITCH.

TRANSFORMER

M — UTILITY METER SOCKET, WITH C.T.S, CLIPS, ETC., PER SERVING UTILITY COMPANY.

INVERTER

GROUND WELL
3/4" X 10' COPPER CLAD STEEL
GROUND ROD IN BROOKS BOX

ABBREVIATIONS

2P	2 POLE	J	JUNCTION BOX	R	RED, RAISE, RELAY OR REVERSE
3P	3 POLE	JB	JUNCTION BOX OR VAULT	RECP	RECEPTACLE
2/C	2 CONDUCTOR	KV	KILOVOLT	RMC	RIGID METAL CONDUIT
4"C	4" CONDUIT	KW	KILOWATT	RSG	RIGID STEEL GALVANIZED CONDUIT
#8G	#8 GROUND WIRE	KWH	KILOWATT HOUR		
Ø	DIAMETER	KVA	"KILOVOLT - AMPERES		
°F	DEGREES FARENHEIT			SCH	SCHEDULE
A	AMP(S)				
AC	ALTERNATING CURRENT	MAX	MAXIMUM,	SHLD	SHIELDED
AL	ALUMINUM	MCC	MOTOR CONTROL CENTER	SHT	SHEET
AWG	AMERICAN WIRE GAUGE	MCM	THOUSAND CIRCULAR MIL	SP	SINGLE POLE
		MIN	MINIMUM		
BLDG	BUILDING	MISC	MISCELLANEOUS	STD	STANDARD
BLK	BLACK	MPPT	MAXIMUM POWER POINT TRACKER	SWBD	SWITCHBOARD
BLU	BLUE	MSB	MAIN SWITCHBOARD	SQ	SQUARE
CM	CIRCUIT MONITOR ELECTRONIC POWER QUALITY MONITOR	NEU	NEUTRAL		
C.	"CONDUIT", WITH CONDUCTORS AS REQUIRED BY DRAWINGS OR SPECIFICATIONS.	NC	NORMALLY CLOSED		
C.O	"CONDUIT ONLY", PROVIDE PULL ROPE FOR ALL EMPTY CONDUIT AS REQUIRED.	N.I.C.	NOT IN CONTRACT		
CONC	CONCRETE	NEC	NATIONAL ELECTRIC CODE		
CU	COPPER	NEMA	NATIONAL ELECTRICAL MANUFACTURE'S ASSOC		
CB	COMBINER BOX	NO	NORMALLY OPEN	TEMP	TEMPERATURE
CL	CENTER LINE			TYP	TYPICAL
		NTS	NOT TO SCALE		
COMM	COMMUNICATION	O	OPEN	UG	UNDERGROUND
CONN	CONNECTION	OC	ON CENTER	UL	UNDERWRITERS LABORATORY
DAS	DATA ACQUISITION SYSTEM	OD	OUTSIDE DIAMETER		
DC	DIRECT CURRENT	P	PRIMARY OR POLE	UON	UNLESS OTHERWISE NOTED
DIA	DIAMETER	PB	PUSH BUTTON OR PULL BOX	UPS	UNINTERRUPTIBLE POWER SUPPLY
DWG	DRAWING				
(E)	EXISTING	Ø	PHASE	V	VOLT(S)
EQUIP	EQUIPMENT	PNL	PANEL	VA	VOLT /AMPERES
		PROT	PROTECTION	W	WATTS, WIRE, WHITE OR WIDE
EMT	ELECTRICAL METALLIC TUBING	PV	PHOTOVOLTAIC	WP	WEATHERPROOF
FIN	FINISH	PVC	POLYVINYL CHLORIDE		
G	GROUND OR GREEN	REINF	REINFORCED	XFMR	TRANSFORMER
GALV	GALVANIZED	QTY	QUANTITY	Y	YELLOW
GEC	GROUNDING ELECTRODE CONDUCTOR				
GFI	GROUND FAULT INTERRUPTER				
GFCI	GROUND FAULT CIRCUIT INTERRUPTER				
EH	ELECTRICAL HANDHOLE				

REGISTERED PROFESSIONAL ENGINEER
CHARLES ALEXANDER JOY
20461
exp 9/30/2027
ELECTRICAL
STATE OF CALIFORNIA
SIGNED 10-07-2026

CITY OF SANTA ROSA
APPROVED
Permit # B26-4126
Date 10/27/2026
Review and approval of these documents is based upon compliance with the 2025 California Code of Regulations Title 24, and all applicable City of Santa Rosa ordinances and State of California laws.
Building Division Authorization Signature

City of Santa Rosa

NO.	DATE	BY
1	10/27/26	NVS

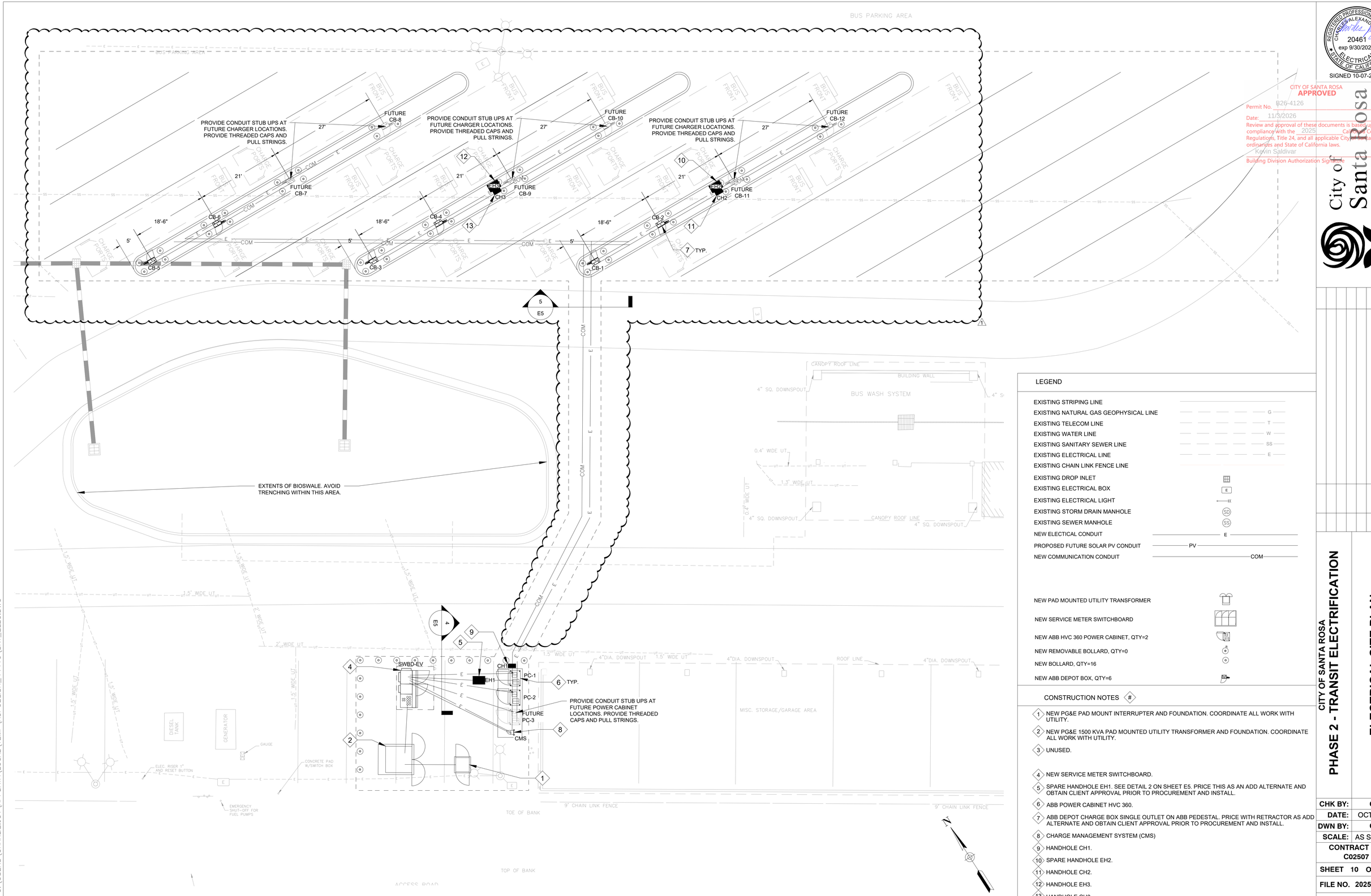
CITY OF SANTA ROSA COMMENT RESPONSE REVISION

CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

NOTES, SYMBOLS, SCHEDULES, & ABBREVIATIONS

CHK BY:	CJ
DATE:	OCT 2026
DWN BY:	CJ
SCALE:	AS SHOWN
CONTRACT NO. C02507	
SHEET 9 OF 14	
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E1



LEGEND

- EXISTING STRIPING LINE
- EXISTING NATURAL GAS GEOPHYSICAL LINE — G
- EXISTING TELECOM LINE — T
- EXISTING WATER LINE — W
- EXISTING SANITARY SEWER LINE — SS
- EXISTING ELECTRICAL LINE — E
- EXISTING CHAIN LINK FENCE LINE
- EXISTING DROP INLET
- EXISTING ELECTRICAL BOX — E
- EXISTING ELECTRICAL LIGHT
- EXISTING STORM DRAIN MANHOLE — SD
- EXISTING SEWER MANHOLE — SS
- NEW ELECTICAL CONDUIT — E
- PROPOSED FUTURE SOLAR PV CONDUIT — PV
- NEW COMMUNICATION CONDUIT — COM
- NEW PAD MOUNTED UTILITY TRANSFORMER
- NEW SERVICE METER SWITCHBOARD
- NEW ABB HVC 360 POWER CABINET, QTY=2
- NEW REMOVABLE BOLLARD, QTY=0
- NEW BOLLARD, QTY=16
- NEW ABB DEPOT BOX, QTY=6

CONSTRUCTION NOTES ⟨#⟩

1. NEW PG&E PAD MOUNT INTERRUPTER AND FOUNDATION. COORDINATE ALL WORK WITH UTILITY.
2. NEW PG&E 1500 KVA PAD MOUNTED UTILITY TRANSFORMER AND FOUNDATION. COORDINATE ALL WORK WITH UTILITY.
3. UNUSED.
4. NEW SERVICE METER SWITCHBOARD.
5. SPARE HANDHOLE EH1. SEE DETAIL 2 ON SHEET E5. PRICE THIS AS AN ADD ALTERNATE AND OBTAIN CLIENT APPROVAL PRIOR TO PROCUREMENT AND INSTALL.
6. ABB POWER CABINET HVC 360.
7. ABB DEPOT CHARGE BOX SINGLE OUTLET ON ABB PEDESTAL. PRICE WITH RETRACTOR AS ADD ALTERNATE AND OBTAIN CLIENT APPROVAL PRIOR TO PROCUREMENT AND INSTALL.
8. CHARGE MANAGEMENT SYSTEM (CMS)
9. HANDHOLE CH1.
10. SPARE HANDHOLE EH2.
11. HANDHOLE CH2.
12. HANDHOLE EH3.
13. HANDHOLE CH3.

REGISTERED PROFESSIONAL ENGINEER CHARLES ALEXANDER JOY 20461 exp 9/30/2027 ELECTRICAL STATE OF CALIFORNIA

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City of Santa Rosa

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CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

ELECTRICAL SITE PLAN

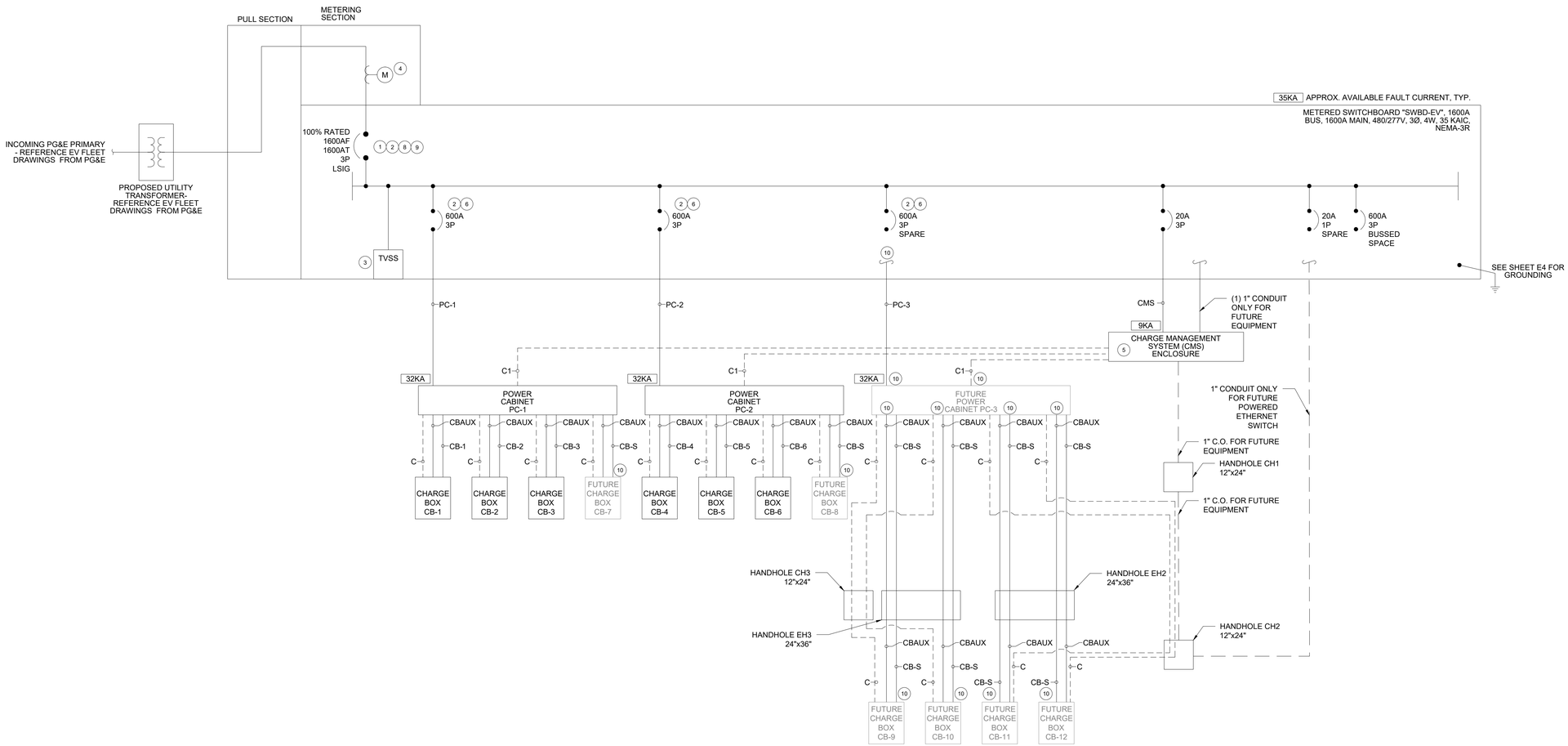
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SHEET 10 OF 14	
FILE NO. 2025-0028	

E2

0' 10' 20' 30'
SCALE 1"= 10'

C:\USERS\CHARLIE.JOY\APPDATA\LOCAL\TEMP\ACPUBLISH_44416\SRT_ELEC.DWG

ELECTRICAL SITE PLAN



AC CONDUIT AND CONDUCTOR SCHEDULE																
CKT#	FROM	TO	LENGTH	VOLTAGE	WIRE MATERIAL	WIRE TEMP RATING (°C)	WIRE TYPE	TERMINAL TEMP RATING (°C)	OCPD SIZE	PARALLEL SETS	CONDUIT SIZE	PH WIRE SIZE	NEUTRAL SIZE	CU GND SIZE	AC VOLT DROP	AC % VD
PC-1	SWBD-EV	PC-1	41	480	Cu	75	THWN-2	60	600	2	3	350	-	1/0	0.63	0.13%
PC-2	SWBD-EV	PC-2	42	480	Cu	75	THWN-2	60	600	2	3	350	-	1/0	0.65	0.14%
(10) PC-3	SWBD-EV	PC-3	44	480	Cu	75	THWN-2	60	600	2	3	350	-	1/0	0.68	0.14%
CBAUX	PC-X	CB-X	203	120	Cu	75	THWN-2	60	-	1	3/4	14	14	14	3.78	3.15%
CMS	SWBD-EV	CMS	17	277	Cu	75	THWN-2	60	20	1	3/4	12	12	10	0.25	0.09%

DC CONDUIT AND CONDUCTOR SCHEDULE																
CKT#	FROM	TO	LENGTH	VOLTAGE	WIRE MATERIAL	WIRE TEMP RATING (°C)	WIRE TYPE	TERMINAL TEMP RATING (°C)		PARALLEL SETS	CONDUIT SIZE	PH WIRE SIZE	CONDUCTORS PER CONDUIT	CU GND SIZE	DC VOLT DROP	DC % VD
CB-1	PC-1	CB-1	189	1000	Cu	75	XHHW-2	60		1	2	350	2	4	3.59	0.36%
CB-2	PC-1	CB-2	189	1000	Cu	75	XHHW-2	60		1	2	350	2	4	3.59	0.36%
CB-3	PC-1	CB-3	148	1000	Cu	75	XHHW-2	60		1	2	350	2	4	2.81	0.28%
CB-4	PC-2	CB-4	148	1000	Cu	75	XHHW-2	60		1	2	350	2	4	2.81	0.28%
CB-5	PC-2	CB-5	203	1000	Cu	75	XHHW-2	60		1	2	350	2	4	3.86	0.39%
CB-6	PC-2	CB-6	203	1000	Cu	75	XHHW-2	60		1	2	350	2	4	3.86	0.39%
CB-S	PC-X	CB-S	173	1000	Cu	75	XHHW-2	60		1	2	350	2	4	3.29	0.33%

COMMUNICATION CONDUIT SCHEDULE										
CKT#	FROM	TO	LENGTH	MINIMUM VOLTAGE RATING	COMMUNICATION WIRE TYPE	ENVIRONMENTAL RATING	CONDUIT SIZE	MINIMUM SIZE	CABLES PER CONDUIT	RECOMMENDED PRODUCT
C	PC-X	CB-X	203	1000	SHIELDED TWISTED PAIR (2X2)	DIRECT BURIAL/WET RATED	1	18 AWG	2	-
	PC-X	CB-X	203	1000	CAT 6	DIRECT BURIAL/WET RATED		-		-
C1	PC-X	CB-X	21	1000	CAT 6	DIRECT BURIAL/WET RATED	3/4	-	1	-

GENERAL NOTES:

1. TORQUE REQUIREMENTS FOR THE CONDUCTOR AT THE EQUIPMENT TO BE VERIFIED PER THE INSTALLATION MANUAL.
2. SERVICE ENTRANCE TO BE GROUNDED PER NEC.
3. ALL ELECTRICAL POWER IN CLOSE PROXIMITY TO THE INSTALLATION OF THE ELECTRICAL VEHICLE STATION EQUIPMENT MUST BE POWERED OFF PRIOR TO THE START OF CONSTRUCTION, TO PREVENT ANY ELECTRICAL INJURIES.
4. SEE CONDUIT SCHEDULE FOR WIRE AND CONDUIT SIZE.
5. THE METHODS CONTAINED IN CEC/NEC ART. 250 SHALL BE FOLLOWED TO COMPLY WITH GROUNDING AND BONDING OF ELECTRICAL SYSTEMS AND NON-CURRENT CARRYING CONDUCTIVE MATERIALS, ENCLOSURES, OR ITEMS FORMING PART OF ANY SUCH EQUIPMENT THAT ENCLOSES OR CARRIES ELECTRICAL CONDUCTOR OR EQUIPMENT THAT IS LIKELY TO BECOME ENERGIZED. SEE CEC/NEC 250.4(A)(1) THROUGH (5) FOR FURTHER DESCRIPTION,
6. WHERE TWO OR MORE GROUND RODS ARE TO BE INSTALLED, THE MINIMUM SEPARATION SHALL BE 6' PER CEC/NEC 250.53 (A)(2), AND (3) RESISTANCE OF ELECTRODES.
7. ALL CONDUITS SHALL COMPLY WITH CEC/NEC TABLE 300.5 MINIMUM BURIAL DEPTH.
8. PER CEC/NEC 110.26 "ACCESS AND WORKING SPACE SHALL BE PROVIDED AND MAINTAINED ABOUT ALL ELECTRICAL EQUIPMENT TO PERMIT READY AND SAFE OPERATION AND MAINTENANCE OF SUCH EQUIPMENT."
9. ENSURE THAT SHIELD WIRES ARE TWISTED TOGETHER WHERE CABLE IS CUT (CABLE BREAK). THE SHIELD WIRE OF INDIVIDUAL RS-485 CABLES SHALL ONLY BE GROUNDED ON ONE END.
10. ALL COMMUNICATION AND METERING EQUIPMENT TO BE PROVIDED BY CONTRACTOR. CONDUCTORS & CONDUIT SHALL BE PROVIDED BY CONTRACTOR UNLESS OTHERWISE NOTED.

KEYED NOTES: (#)

1. PROVIDE ARC FAULT AND GROUND FAULT DETECTION AND INTERRUPTION.
2. PROVIDE LOCKABLE CIRCUIT BREAKERS.
3. PROVIDE SWITCHBOARD WITH TVSS.
4. PROVIDE EUSERC METERING WITHIN SWITCHBOARD AS REQUIRED BY UTILITY.
5. PROVIDE CMS BY THE MOBILITY HOUSE (TMH) OR APPROVED EQUIVALENT. ORDER ENCLOSURE WITH CELLULAR MODEM.
6. COORDINATE BREAKERS TO REDUCE FAULT CURRENT AT POWER CABINETS TO BELOW 65kA.
7. PRICE THIS EQUIPMENT AS AN ADD ALTERNATE AND OBTAIN CLIENT APPROVAL PRIOR TO PROCUREMENT AND INSTALL.
8. PRICE MOTOR OPERATOR FOR BREAKER AS AN ADD ALTERNATE AND OBTAIN CLIENT APPROVAL PRIOR TO PROCUREMENT AND INSTALL.
9. INSTALL PLACARDS SHOWN ON SHEET E5 DETAIL 6 AND DETAIL 7 ADJACENT TO MAIN BREAKER.
10. STUB UP CONDUITS ONLY AT FUTURE EQUIPMENT LOCATION. PROVIDE THREADED CAPS AND PULLSTRINGS. STUB CONDUIT AT EQUIPMENT CONDUIT WINDOW LOCATION.

REGISTERED PROFESSIONAL ENGINEER CHARLES ALEXANDER JOY 20461 exp 9/30/2027 ELECTRICAL STATE OF CALIFORNIA

SIGNED 10-07-2026

CITY OF SANTA ROSA APPROVED
PLAN NO. B26-4126
DATE: 10/27/26
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Kevin Saldivar
Building Division Authorization Signature

City of Santa Rosa

NO.	DATE	BY
1	10/27/26	CITY
		NVS

CITY OF SANTA ROSA COMMENT RESPONSE REVISION

CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

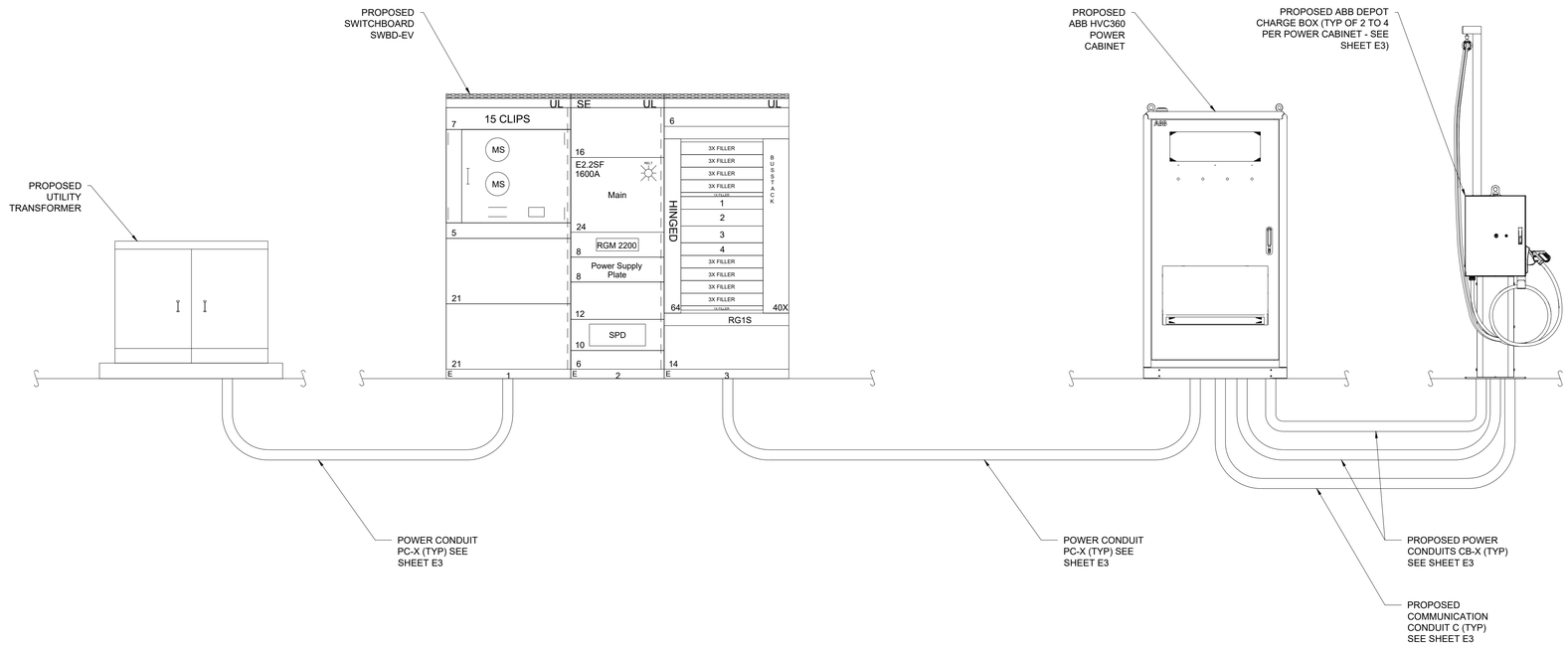
SINGLE LINE DIAGRAM AND SCHEDULES

CHK BY:	CJ
DATE:	OCT 2026
DWN BY:	CJ
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E3

NOTES:

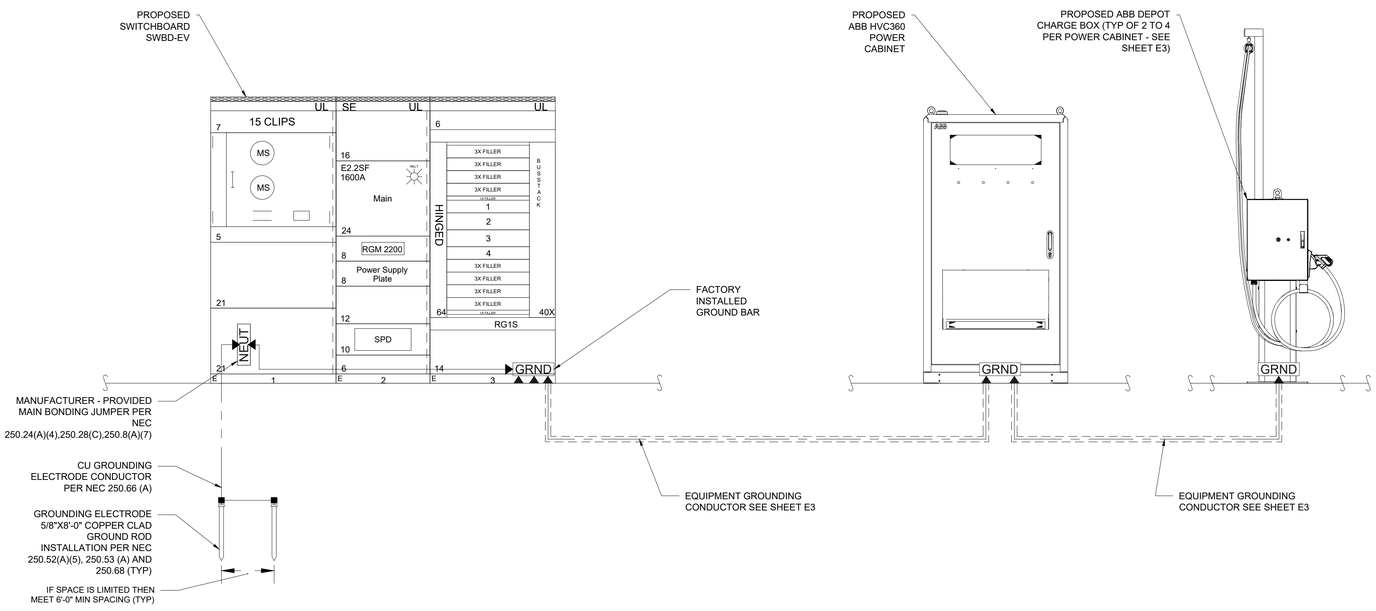
1. CONDUITS SHALL BE BURIED IN COMPLIANCE WITH LOCAL AND NATIONAL CODE REQUIREMENTS.

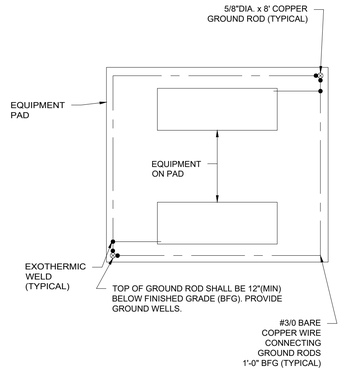


EV CHARGER CONDUIT ELEVATION VIEW | 1 | NONE

NOTES:

1. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.





PLAN VIEW

NOTES:
1. REFER TO EXACT UTILITY COMPANY REQUIREMENTS FOR MODIFICATIONS THAT MAY BE REQUIRED TO THIS PAD LAYOUT.

2. ALL GROUND GRID CONNECTIONS SHALL BE EXOTHERMIC WELD.

3. CAP ALL CONDUIT ENDS TO PREVENT MOISTURE AND DEBRIS FROM ENTERING CONDUITS PRIOR TO EQUIPMENT INSTALLATION.

GROUNDING SCHEMATIC | 2 | NONE

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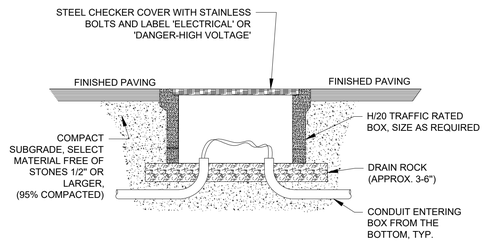
REVISION: CITY OF SANTA ROSA COMMENT RESPONSE

CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

EQUIPMENT GROUNDING AND ELEVATIONS

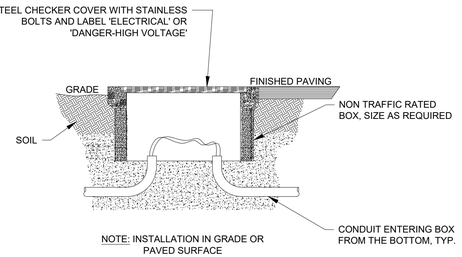
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E4



TYPICAL TRAFFIC RATED HAND HOLE SECTION

3 / E5 — SCALE: NONE



NOTE: INSTALLATION IN GRADE OR PAVED SURFACE

TYPICAL NON-TRAFFIC RATED HANDHOLE SECTION

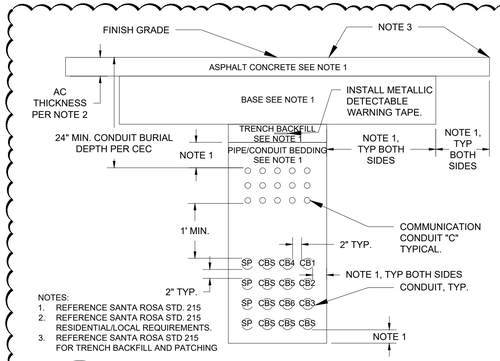
2 / E5 — SCALE: NONE

##-##

NOTES:
1. RED BACKGROUND
2. WHITE LETTERING
3. MINIMUM 3/8" LETTER HEIGHT
4. ALL CAPITAL LETTERS
5. ARIAL OR SIMILAR FONT, NON-BOLD
6. WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT (DURABLE ADHESIVE MATERIALS MAY MEET THIS REQUIREMENT)
7. REFER TO SINGLE-LINE DIAGRAM FOR EQUIPMENT NAME

EQUIPMENT PLACARD

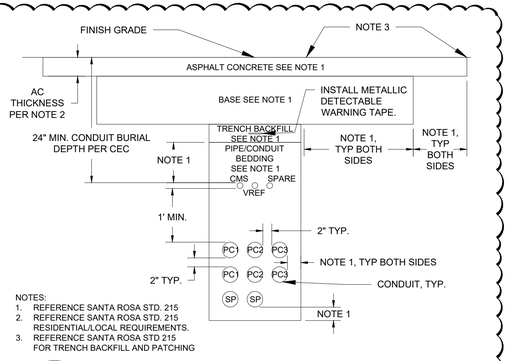
1 / E5 — SCALE: NONE



NOTES:
1. REFERENCE SANTA ROSA STD. 215
2. REFERENCE SANTA ROSA STD. 215 RESIDENTIAL/LOCAL REQUIREMENTS.
3. REFERENCE SANTA ROSA STD 215 FOR TRENCH BACKFILL AND PATCHING

SHARED DUCT BANK

5 / E5 — SCALE: NONE



NOTES:
1. REFERENCE SANTA ROSA STD. 215
2. REFERENCE SANTA ROSA STD. 215 RESIDENTIAL/LOCAL REQUIREMENTS.
3. REFERENCE SANTA ROSA STD 215 FOR TRENCH BACKFILL AND PATCHING

AC DUCT BANK

4 / E5 — SCALE: NONE

1

THE SETTING FOR THE EMS CURRENT LIMITING FEATURE SHALL NOT BE BYPASSED. EV LOAD ON THIS SERVICE IS LIMITED AS FOLLOWS: LIMIT LOAD TO 0 KW DURING THE HOURS OF 10:00 TO 23:00 AND 1,174 KW DURING THE HOURS OF 23:00 TO 10:00:

MAXIMUM CURRENT SETTING:	1412 A
DATE OF CURRENT CALCULATION:	04-10-2026
DATE OF CURRENT SETTING:	
LOADS ASSOCIATED WITH CURRENT LIMITING FEATURE:	PC1, PC2

NOTES:
1. RED BACKGROUND
2. WHITE LETTERING
3. MINIMUM 14 (.194") FONT LETTER HEIGHT
4. ALL CAPITAL LETTERS
5. ARIAL OR SIMILAR FONT, NON-BOLD
6. WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT

LOCATE PLACARD ADJACENT TO THE MAIN BREAKER

EMS PLACARD

7 / E5 — SCALE: NONE

CURRENT IS LIMITED ON THIS SWITCHBOARD BY A CONTROLLER LOCATED ACROSS FROM THIS SWITCHBOARD LABELED 'CMS'

NOTES:
1. RED BACKGROUND
2. WHITE LETTERING
3. MINIMUM 14 (.194") FONT LETTER HEIGHT
4. ALL CAPITAL LETTERS
5. ARIAL OR SIMILAR FONT, NON-BOLD
6. WEATHER RESISTANT MATERIAL SUITABLE FOR THE ENVIRONMENT

LOCATE PLACARD ADJACENT TO THE MAIN BREAKER

EMS PLACARD

6 / E5 — SCALE: NONE

CADWELD CONNECTIONS
OR ENGINEER APPROVED EQUAL

CABLE TO REBAR TEE CONNECTION HORIZONTAL CABLE TAP TO VERTICAL REBAR TYPE RJ	HORIZONTAL SPLICE SPLICE OF HORIZONTAL CABLES TYPE SS	PARALLEL HORIZONTAL CONDUCTORS PARALLEL THROUGH CONNECTION OF HORIZONTAL CABLES TYPE PT
BURNDY CONNECTIONS OR ENGINEER APPROVED EQUAL	HORIZONTAL STEEL SURFACE TO FLAT STEEL SURFACE OR HORIZONTAL PIPE TYPE HS	PARALLEL HORIZONTAL CONDUCTORS PARALLEL DEAD END TAP OR HORIZONTAL THRU CONDUCTOR TYPE PC
BOND JUMPER FIELD FABRICATED GREEN STRANDED INSULATED TYPE 2-YA-2	VERTICAL PIPE CABLE DOWN AT 45 TO RANGE OF VERTICAL PIPES TYPE VS	VERTICAL STEEL SURFACE CABLE DOWN AT 45 TO VERTICAL STEEL SURFACE INCLUDING PIPE TYPE VS
COPPER LUGS TWO HOLE – LONG BARREL LENGTH TYPE YA-2	HORIZONTAL TEE TEE OF HORIZONTAL RUN AND TAP CABLES TYPE TA	THROUGH CABLE TO GROUND ROD THROUGH CABLE TO TOP OF GROUND ROD TYPE GT

CADWELD CONNECTION DETAIL

8 / E5 — SCALE: NONE

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CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

ELECTRICAL DETAILS

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SHEET 13 OF 14	
FILE NO. 2025-0028	

E5

DATA SHEET

HVC360 NA charging solution

The power to make a difference





The HVC360 is specially designed for heavy duty fleets, such as buses or trucks, delivering up to 360 kW of continuous charging power. This ultra compact power cabinet supports the connection of up to four charging stations at a distance of up to 150 m (500 ft). The HVC360 supports all charging interfaces simultaneously, from CCS to pantograph, offering ultimate flexibility for any site layout or use case. The HVC360 is available with Buy America Compliance.



—
The diagram on the left illustrates several charging interfaces that the flexible, compact HVC360 high power charging equipment can support.

RevD02

Technical specifications

	HVC200-2D	HVC200-4D	HVC300-2D	HVC300-4D	HVC360-2D	HVC360-4D
Charging interface compatibility						
HVC Depot box	Yes	Yes	Yes	Yes	Yes	Yes
HVC Depot box dual outlet	Yes	Yes	Yes	Yes	Yes	Yes
HVC CCS control box	Yes	Yes	Yes	Yes	Yes	Yes
HVC Cable retractor	Yes	Yes	Yes	Yes	Yes	Yes
HVC 400A Pantograph Kit	Yes	Yes	Yes	Yes	Yes	Yes
Charging methods						
Parallel charging	Yes	Yes	Yes	Yes	Yes	Yes
Dynamic charging	Yes	Yes	Yes	Yes	Yes	Yes
Product Information						
DC output power rating (per cabinet)	200 kW	200 kW	300 kW	300 kW	360 kW	360 kW
DC output voltage (per Cabinet)	150-940 V	150-940 V	150-940 V	150-940 V	150-940 V	150-940 V
DC output current (per Cabinet) (1)	285 A	285 A	430 A	430 A	500 A	500 A
DC output power rating (max per outlet)	200 kW	200 kW	300 kW	300 kW	360 kW	360 kW
DC output voltage (per outlet)	150-940 V	150-940 V	150-940 V	150-940 V	150-940 V	150-940 V
DC output current (per outlet) max (1)	285 A	285 A	430 A	430 A	500 A	500 A
Input voltage range	480Y/277 VAC +/- 10%, 3-ph 60 Hz		480Y/277 VAC +/- 10%, 3-ph 60 Hz		480Y/277 VAC +/- 10%, 3-ph 60 Hz	
Input AC connection	L1, L2, L3, GND (no neutral)		L1, L2, L3, GND (no neutral)		L1, L2, L3, GND (no neutral)	
Input AC Current / Power	262 A; 218 kVA	262 A; 218 kVA	392 A; 326 kVA	392 A; 326 kVA	470 A; 391 kVA	470 A; 391 kVA
Recommended upstream circuit breaker(s)	350 A or 300 A (100% rated)		500 A or 400 A (100% rated)		600 A or 500 A (100% rated)	
Power factor (2)	0.97	0.97	0.97	0.97	0.97	0.97
Current THD*	IEEE 519 Compliant; <8%; option for 5%		IEEE 519 Compliant; <8%; option for 5%		IEEE 519 Compliant; <8%; option for 5%	
Short circuit current rating	25 kA; 65 kA optional		25 kA; 65 kA optional		25 kA; 65 kA optional	
Efficiency	94-96%	94-96%	94-96%	94-96%	94-96%	94-96%
Distance between charger & charging interface	100 m standard; up to 150 m with long distance option		100 m standard; up to 150 m with long distance option		100 m standard; up to 150 m with long distance option	
General characteristics						
Enclosure rating	NEMA 3R (IP-54 and IK-10)		NEMA 3R (IP-54 and IK-10)		NEMA 3R (IP-54 and IK-10)	
Enclosure type	Stainless steel		Stainless steel		Stainless steel	
Operational attitude	Up to 2000 m		Up to 2000 m		Up to 2000 m	
Operation temperature range (3)	-35°C to +55°C		-35°C to +55°C		-35°C to +55°C	
Recommended storage conditions	-10 °C to +70 °C / 14 °F to +158 °C (dry environment)		-10 °C to +70 °C / 14 °F to +158 °C (dry environment)		-10 °C to +70 °C / 14 °F to +158 °C (dry environment)	
Humidity	5% to 95%, non-condensing		5% to 95%, non-condensing		5% to 95%, non-condensing	
Dimensions (H x W x D)	2180 x 1170 x 770 mm (85.8" x 46.1" x 30.3")		2180 x 1170 x 770 mm (85.8" x 46.1" x 30.3")		2180 x 1170 x 770 mm (85.8" x 46.1" x 30.3")	
Mass	830 kg / 1830 lbs		890 kg / 1962 lbs		950 kg / 2094 lbs	
Color	RAL 9002		RAL 9002		RAL 9002	
User Interface						
Connectivity	Internet access via 4G / 3G / Ethernet		Internet access via 4G / 3G / Ethernet		Internet access via 4G / 3G / Ethernet	
Communication protocols	OCPP 1.6J		OCPP 1.6J		OCPP 1.6J	
LED	RGD LED on the charger, 1 per outlet		RGD LED on the charger, 1 per outlet		RGD LED on the charger, 1 per outlet	
Configuration						
Software update	Over-the-air updates via ABB E-mobility web portal, OCPP 1.6					
Control and configuration	ABB E-mobility web portal, on-board service portal, OCPP 1.6					
Certification and standards						
Charging system	IEC 61851-1 ed 3, IEC 61851-21-2 ed 1, IEC 61851-23 ed 1, IEC 61851-24 ed 1, IEC 62196-2, IEC 62196-3, IEC 61000					
Communication to the EV	DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM					
Communication to the backend	OCPP 1.6 JSON					
Electro-Magnetic Compatibility	Standard: EMC-Class A Conducted and Radiated; Optional: EMC-Class B Conducted with external filter					
Compliance	CSA No. 107.1-16 and UL 2202 certified by TUV, SAE J3105-1; ISO 15118 and BA Rule 49 CFR Part 661.5 (optional)					

(1) Maximum output current could be limited by the charging interface
(2) Power factor at Output power ≥ 10 kW
(3) Measured according to IEC 62196-1, current rating and duration at higher temperatures is highly dependent on the charging interface and vehicle inlet.
(4) De-rating is dependent on multiple variables such as charging interface (cable/pantograph), vehicle inlet, temperature and duration. This can only be properly calculated on a system level.

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PART NO TBD

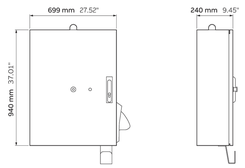
RevD02

Product codes

Compliancy	Cable lenght	Product code
CE	7 m	6AGC101616
CE	9.5 m	6AGC101617
NA	22.97 ft	6AGC108540
NA	31.17 ft	6AGC108541

Dimensions

Depot charge box





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For more information
e-mobility.abb.com

PRODUCT DATASHEET

Depot charge box for HVC360 multi-outlet cabinet

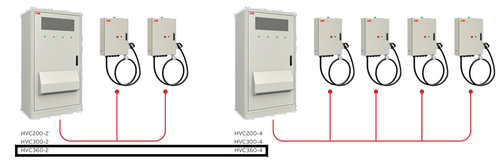
Flexible installation installed on wall or pedestal to fit in any kind of site layout



The Depot charge box is designed to charge larger depot-based heavy duty EV fleets in several site layouts, and is flexible as it can be wall mounted or on pedestal. Used with the new HVC360 power cabinet, it delivers up to 180 kW per vehicle.



- **High uptime** ensured thanks to proven robust design and technology
- **Flexible installation** with wall or pedestal mounted



Technical specification

Market		CE	NA
Electrical characteristics			
DC output current peak (1)		250 A	200 A
DC output current rating max per connector (2)		With HVC200: 142 A With HVC300: 215 A With HVC360: 250 A	
DC output power rating		50 - 180 kW	
DC output power rating max per connector (2)		With HVC200: 100 kW With HVC300: 150 kW With HVC360: 180 kW	
DC output voltage range		150 - 940 V DC	
Standby power		-	
Connector types		CCS2	CCS1
Cable length		7 m - 9.5 m / 22.97 ft - 31.17 ft	
Product characteristics			
Installation		Wall or pedestal	
Environmental protection rating		IP-65	NEMA 3R
Enclosure type		Stainless steel	
Operational altitude		Up to 2000 m / 6562 ft	
Operation temperature range		-35°C to +55°C / -31°F to +131°F	
Storage temperature range		+5 to +40°C / +41 to +104°F with relative humidity 5 to 85%	
Humidity limitation		5% to 95%, RH - non-condensing	
Dimensions (H x W x D)	Depot box	940 x 699 x 240 mm	37.01 x 27.52 x 9.45 in
	On pedestal	2440 x 699 x 240 mm	96 x 27.52 x 9.45 in
Weight	Depot box	95 kg (7 m cable) / 98 kg (9.5 m cable)	209.4 lb (22.97 ft cable) / 216 lb (31.17 ft cable)
	Pedestal	60 kg	132 lb
Color	Depot box	RAL 9002	
	Pedestal	RAL 7012	
User interface			
Emergency button		Included on dispenser, also available as an externally mounted option	
Stop button		Yes & external option	
LED indicator		Yes, RGB LED on the dispenser (green: ready to charge / blinkging green: preparation phase / blinking blue: charging / blue: charging complete / red: error) & external option	
Electrical connection (between power cabinet and dispenser)			
DC power cable		2 or 4 x 185 mm² (maximum)	2 or 4 x 350 MCM AWG (maximum)
AC power cable		3 x 6 mm²	3 x 14 AWG
Distance		Up to 150 m / 492 ft (3)	
Communication and protocols (via power cabinet)			
Communication cabinet - outlet		CAN2Ethernet	CANFIBER
Connectivity		Internet access via 4G / 3G / Ethernet (RJ45)	
Charge protocols		DIN 70121, ISO/IEC 15118 series ed 1 with PnC and EIM	
Communication protocols		OCPP 1.6 JSON	
Certification and standards			
Standards		EN 61851-1: 2011, EN 61851-23: 2014, IEC 61851-1: 2010, IEC 61851-23: 2014, EN 61000-6-1: 2007, EN 61000-6-2:2005, EN 61000-6-3: 2007+A1, EN 61000-6-4: 2007+A1, UL 2202: 2009 R2.18, CSA C22.2 No. 107.1-16	
Compliance		CE & NA market, BAA compliant option for transit	
Warranty		Base warranty 24 months after Site Acceptance Test or 30 months after factory delivery. Warranty extensions available.	
Designed lifespan		ABB chargers are designed for a lifetime of 10 years assuming they receive maintenance according to the maintenance schedule by a trained engineer. Under certain conditions and for certain models this can be extended to 15 years.	

(1) 250 A peak under conditions. As specified by cable / connector supplier and measured according to IEC 62196-1, current rating and duration is highly dependent on the vehicle inlet, the ambient temperature and sun radiation. More details can be provided upon request.
(2) DC output current and power ratings per dispenser depend on the power cabinet power (200-360 kW) and number of dispensers (2-4).
For more information, please refer to the datasheet "HVC360 Charging solution for heavy duty EV fleet".
(3) Values with long distance kit. The standard distance (without long distance kit) is 100 m / 328 ft.

SIGNED 10-07-2026

CITY OF SANTA ROSA
APPROVED
Permit No. B26-4126
Date: 11/3/2026
Review and approval of these documents is based upon compliance with the 2025 California Code of Regulations, Title 24, and all applicable City of Santa Rosa ordinances and State of California laws.
Kevin Saldivar
Building Division Authorization Signature

City of Santa Rosa

NO.	DATE	BY
1	10/27/26	CJ

CITY OF SANTA ROSA COMMENT RESPONSE REVISION

CITY OF SANTA ROSA
PHASE 2 - TRANSIT ELECTRIFICATION

EQUIPMENT CUTSHEETS

CHK BY:	CJ
DATE:	OCT 2026
DWN BY:	CJ
SCALE:	AS SHOWN
CONTRACT NO.	C02507
SHEET	14 OF 14
FILE NO.	2025-0028

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