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WENDY Y. WANG, Bar No. 228923
wendy.wang@bbklaw.com
ANYA KWAN, Bar No. 333854
anya.kwan@bbklaw.com
BEST BEST & KRIEGER LLP
300 South Grand Avenue
25th Floor
Los Angeles, California 90071
Telephone: (213) 617-8100
Facsimile: (213) 617-7480

Attorneys for Respondent
WESTERN MUNICIPAL WATER DISTRICT

BEFORE THE HEARING BOARD OF THE
SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT

In the Matter of
SOUTH COAST AIR QUALITY
MANAGEMENT DISTRICT,

Petitioner,

v.
WESTERN MUNICIPAL WATER
DISTRICT
[Facility ID No. 163418],

Respondent.

Case No. 6240-1

**DECLARATION OF CHRIS FIKE IN
SUPPORT OF STIPULATION RE
CONSENT CALENDAR**

District Rule: 1196

Date: September 12, 2024
Time: 9:30 a.m.
Dept: Hearing Board South Coast Air
Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765

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DECLARATION OF CHRIS FIKE

I, Chris Fike, declare:

1. I am the Director of Maintenance Operation for Respondent Western Municipal Water District (“Western” or “Respondent”). I have personal knowledge of the facts set forth in this declaration, and if called as a witness, could competently testify to all matters set forth herein.

2. I am familiar with the Stipulated Order for Abatement issued on September 12, 2023 (“Order”) and Respondent’s obligations under the Order. I, following receipt of funding approval from Western’s Board of Directors and in concert with Western’s General Manager, personally oversee Respondent’s purchase of vehicles and prepared Respondent’s annual report regarding Respondent’s compliance with the Order, which was submitted to South Coast Air Quality Management District (“South Coast AQMD”) pursuant to the Order, Condition 4.

3. Attached as **Exhibit 1** is a true and correct copy of the annual report I prepared with the assistance of other staff at Western.

4. Respondent has taken several steps to comply with the Order. Specifically, Respondent has completed purchase of three (3) zero-emission vehicles (“ZEVs”) as of December 7, 2023 pursuant to the Order, Condition 1(a) and Attachment A. These purchases further ensure Respondent’s compliance with Condition 2 of the Order, which established a minimum of three ZEVs for replacement. Respondent notified the South Coast AQMD of these purchases pursuant to the Order, Condition 5.

5. Respondent is on track to completing the compliance schedule. In fact, with the purchase of the third ZEV, Respondent is at least one year ahead of the Replacement Vehicle Schedule set forth in Attachment A of the Order, which does not require the purchase of the third vehicle until first quarter of fiscal year 2025.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

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Executed this 5th day of September, at Riverside, California.


 #796
Chris Fike

Exhibit 1



Western Municipal Water District
14205 Meridian Parkway
Riverside, CA 92518
District Business | 951.571.7100
Customer Service | 951.571.7104

Craig D. Miller
General Manager

Mike Gardner
Division 1

Gracie Torres
Division 2

Brenda Dennstedt
Division 3

Laura Roughton
Division 4

Fauzia Rizvi
Division 5

July 3, 2024

VIA EMAIL

Mr. Brian Choe
Program Supervisor
South Coast Air Quality Management District
21865 Copley Drive
Diamond Bar, CA 91765

Subject: *In re Matter of South Coast Air Quality Management District v. Western Municipal Water District, Case No. 6240-1, Annual Progress Report*

Dear Mr. Choe:

Pursuant to the Findings and Decision for an Order of Abatement (Order), dated September 14, 2023, in the above captioned matter, Western Water Municipal Water District (Western) hereby submit this annual progress report.

Status of Heavy-Duty Vehicle Replacement

In accordance with the Replacement Vehicle Schedule set forth in Attachment A of the Order (**Attachment 1**), Western has completed the purchase of three zero-emission vehicles (ZEVs). Western staff notified South Coast Air Quality Management District (SCAQMD) of the purchase of these



vehicles on December 8, 2023 (**Attachment 2**). Western has been informed and believes that these three ZEVs will be delivered by end of March 2025. Once the ZEVs are delivered, the vehicles in Table 1 below will be removed from service within 30-days from the delivery of the ZEVs in accordance with the Order.

Table 1. Vehicles to Be Replaced by ZEVs

Unit ID	Vehicle Model	Committed Purchase Order Date in Order	Purchase Order Date
290	F550 Super Duty	FY2024, Q3	December 7, 2023
291	F550 Super Duty	FY2025, Q1	December 7, 2023
354	F550	FY2024, Q3	December 7, 2023

Western has established Capital Improvement Program (CIP) funding to replace the remaining heavy-duty vehicles, Unit 350, 353 and 359, and their replacement is scheduled to occur as specified in Attachment A of the Order.

Zero-Emission Infrastructure Installation

In 2023, Western purchased electric vehicle charging stations to support the use of ZEVs purchased pursuant to the Order, along with other ZEV purchases in support of Western’s District-wide future electrification goals (Purchase Order in **Attachment 3**). Western is currently finalizing the design review with Southern California Edison’s (SCE) Charge Ready Program (received 6/2024) and anticipates that the chargers will be installed by March 2025 (contingent on SCE’s schedule), in time to support the delivery and use



of the three ZEVs purchased in December 2023 (SCE Design Review Plans in **Attachment 4**).

If you have any questions or require further information, feel free to contact me at (951) 571-7288 or llewis@wmwd.com.

Sincerely,



Lyndy Lewis
Environmental and Regulatory Compliance Manager

Attachment:

1. Attachment A – Replacement Vehicle Schedule
2. December 8, 2023, Email and Purchase Order for ZEVs
3. Purchase Order for ZEVs Charging Stations
4. SCE Charge Ready Design Review Plans

CC: Tim Barr, Deputy General Manager, Western Water
Paul Rugge, Executive Director of Operations, Western Water
Chris Fike, Director Maintenance Operations, Western Water
Jennifer McMullin, Senior Management Analyst, Western Water
Wendy Wang, Best Best & Krieger
Digital File



Attachment 1

Attachment A – Replacement Vehicle Schedule

Unit ID	License Plate No.	VIN	Model Year	Vehicle Model	Vehicle Type	Average Annual Mileage	Replacement Fuel Type	Purchase Order Date	Estimated Delivery Date
290	1369533	1FD0X5HT5BEA47548	2011	F550 Super Duty	Service Truck	3,290	ZEV	FY2024, Q3	FY2026, Q1
291	1369967	1FD0X5GT5BEC02505	2011	F550 Super Duty	Service Truck	7,640	ZEV	FY2025, Q1	FY2026, Q3
350	1463289	1FVHG3DV9FHGP7328	2015	1148D	Dump Truck	2,888	ZEV	FY2027, Q1	FY2028, Q3
353	1516381	1FDUF5GT1GEC85684	2016	F550	Service Truck	6,566	ZEV	FY2026, Q1	FY2027, Q3
354	1524595	1FDUF5GT3GEC85685	2016	F550	Service Truck	2,249	ZEV	FY2024, Q3	FY2026, Q1
359	1535350	1FDXF7DC8HDB10630	2017	F750	Crane Truck	2,708	ZEV	FY2028, Q1	FY2029, Q3
364	1557343	5KKHAXDV3KPKF1033	2019	Gap Vax	Hydro Vac	13,761	N/A	N/A	N/A
366	1402698	5KKHAVDV1MPML9433	2020	4700SF	Hydro Vac	3,048	N/A	N/A	N/A

Attachment 2

Lyndy Lewis

From: Anthony Budicin
Sent: Friday, December 8, 2023 8:01 AM
To: Brian Choe
Cc: Chris Fike; Karl Francis; Jennifer McMullin
Subject: Case No. 6240-1 - OA - Update
Attachments: Purchase_Order_Number_80799-0-MAT.pdf; Attachment A - OA_Findings and Decisions_Final - 2023-09-14.pdf

Hello, Brian.

Please let this email serve as notification regarding the issuance of the attached purchase order for the purchase of the three zero-emission vehicles (ZEVs) in accordance with the Order of Abatement (OA) issued pursuant to Case No. 6240-1.

This purchase order will be used for the purpose of purchasing three ZEVs to replace the following vehicles, listed by Unti ID, as detailed in Attachment A of OA (also attached for reference; the yellow highlights within Attachment A indicate the applicable vehicles that will be replaced utilizing funds from this purchase order):

- Unit 290
- Unit 291
- Unit 354

Once the ZEVs are received, the above vehicles will be removed from service in accordance with the OA. As of now, we do not have an estimated receipt date for delivery.

Additionally, my last day with Western Water will be today, December 8. For any inquiries following December 8, Chris Fike and Jennifer McMullin will serve as the primary points of contact. Both are copied in this email.

It has been a pleasure working with you.

Thank you,

Anthony

Anthony Budicin
Environmental and Regulatory Compliance Manager
Engineering
abudicin@wmwd.com

Office 951.571.7288

Western Water
14205 Meridian Parkway, Riverside, CA 92518 | [WesternWaterCA.gov](https://www.westernwaterca.gov)
Follow us on [Facebook](#) | [Instagram](#) | [YouTube](#) | [TikTok](#) | [Twitter](#)





PURCHASE ORDER NUMBER
80799-0-MAT
 PO number and item numbers must appear on
 all invoices and packing slips.

Date: 12/07/2023
 Page: 1 of 1

Securing Your Water Supply

Western Municipal Water District
 14205 Meridian Parkway
 Riverside, CA 92518-3045
 (951) 571-7100 FAX (951)571-0591

Purchases by Western Municipal Water District are subject to applicable sales and use tax, as required by California Sales and Use Tax Law and Regulations

El Sobrante Warehouse Delivery Hours: 8:00am - 12:00pm 1:00pm - 3:30 pm

Vendor No. 10623
 PHOENIX MOTORCARS LEASING
 1500 LAKEVIEW LOOP
 ANAHEIM CA 92807
 United States of America

Ship To:
 Western Municipal Water Dist.
 16451 El Sobrante Rd
 Riverside CA 92503-7607

Freight Terms: FOB Destination
 Payment Terms: NET 30
 Buyer: Chris Fike

Vendor Contact: YANG ZHANG OR ELENA CHRISTAKIS

Phone: 909 987-0815
 Fax:
 Email: ap@phoenixmotocars.com

Western Municipal Water Dist.
 14205 Meridian Parkway
 Riverside CA 92518-3045
 westerninvoices@wmwd.com

Delivery Due Date:
 Ship Via:

LINE	DESCRIPTION	UOM	QTY	UNIT COST	EXTENDED COST
1	E-450 UTILITY TRUCKS 3-2023 Z500 Service trucks, plus diagnostic packages, after HVIP incentives.	EA	1.00	389,795.00	389,795.00
2	SHIPPING Shipping cost estimate.	EA	1.00	1,494.00	1,494.00
3	DMV TITLE AND RESGISTRATION Estimate cost. Quote #SA-QS-1016ST-V2, dated 8/23/2023.	EA	1.00	5,961.00	5,961.00

As Vendor provides services and/or goods through this purchase order, Vendor shall invoice Western within 30 days with physical or electronic invoices at one of the "Bill To" addresses noted on this purchase order. Any other arrangement must be agreed to in advance and in writing by both Western and Vendor.

ATTN. VENDOR: **Invoices MUST include the appropriate PO number.**

SUBTOTAL	397,250.00
SALES TAX	30,671.09
SHIPPING	0.00
TOTAL	427,921.09

ATTENTION AND ACKNOWLEDGEMENT: THIS PURCHASE ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ON THIS PAGE AND THE REVERSE PAGE

PURCHASE ORDER TERMS AND CONDITIONS

- 1. Compensation.** Purchase Order amount shall include the full compensation for providing all required goods and/or services, as specified on the Purchase Order, and no additional compensation will be allowed unless otherwise provided for in the Purchase Order. Western Municipal Water District (District) will not be responsible for any expenditure overruns and will not pay for work exceeding the dollar limit on the Purchase Order unless a Purchase Order Revision to cover those costs has been issued. Vendor/Consultant (Vendor) shall be paid on a time and materials or lump sum basis, as may be agreed upon by the parties as described in this Purchase Order, or in attached documents and made a part hereof, within 30 days of receipt of invoice. If Work is performed on a time and materials basis, the invoice shall include a detailed description of the Work performed.
- 2. Compliance with Law.** Vendor shall comply with all applicable laws and regulations of the federal, state and local government. Vendor shall assist District, as requested, in obtaining and maintaining all permits required of Vendor by Federal, State and local regulatory agencies. Vendor is responsible for all costs of clean up and/or removal of hazardous and toxic substances spilled as a result of his or her Work. Vendor is aware of the requirements of California Labor Code Sections 1720 et seq. and 1770 et seq., which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects. If the Work is being performed as part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is \$1,000 or more, Vendor agrees to fully comply with such Prevailing Wage Laws, including without limitation any and all requirements related to contractor and subcontractor registration. Vendor shall defend, indemnify and hold the District, its elected officials, officers, employees and agents free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or alleged failure to comply with the Prevailing Wage Laws. It shall be mandatory upon the Vendor and all sub-contractors to comply with all California Labor Code provisions, which include but are not limited to prevailing wages, contractor registration, employment of apprentices, hours of labor and debarment of Vendors.
- 3. Standard of Care.** The Vendor shall perform the Work in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of the profession practicing under similar conditions. Vendor shall also comply with State and Federal Environmental and Safety Regulations as they apply to the scope of Work.
- 4. Insurance.** During the performance of all Work under this Agreement, including self-delivery of any goods, the Vendor shall take out and maintain: A. Commercial General Liability Insurance, of at least \$1,000,000 per occurrence/\$2,000,000 aggregate for bodily injury, personal injury and property damage, at least as broad Insurance Work Office Commercial General Liability coverage (Occurrence Form CG 0001); B. Automobile Liability Insurance for bodily injury and property damage including coverage for owned, non-owned and hired vehicles, of at least \$1,000,000 per occurrence for bodily injury and property damage, at least as broad as Insurance Work Office Form Number CA 0001 (ed. 6/92) covering automobile liability, Code 1 (any auto); Items A and B shall name the District as "Additional Insured"; and C. Workers' Compensation Insurance of at least \$1,000,000 per occurrence, in compliance with applicable statutory requirements and Employer's Liability Coverage. Insurance carriers shall be authorized by the Department of Insurance, State of California, to do business in California and maintain an agent for process within the state. Waiver of Subrogation: The Worker's Compensation Insurance provider shall agree to waive all rights of subrogation against the District, its elected or appointed officers, officials, agents, volunteers, and employees for losses paid under the terms of the policy which arise from work performed by the Named Insured for the District; but this provision shall apply regardless of whether or not the District has received a waiver of subrogation from the insurer. Such insurance carriers shall have not less than an "A-"; "Class VII" according to the latest Best Key Rating unless otherwise approved by the District. Vendor shall ensure that third party shippers contracted by the Vendor have adequate insurance coverage. Insurance Required for Vendors that are Technology Providers, or that May have Access to District Data. Vendor shall obtain cyber liability (technology professional liability - errors and omissions) insurance coverage with limits not less than \$2,000,000 per occurrence or claim, and \$2,000,000 aggregate or the full per occurrence limits of the policies available, whichever is greater. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by the Vendor in this Agreement and shall include, but not be limited to, claims involving infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, alteration of electronic information, extortion and network security. The insurance policy shall provide coverage for breach response costs, regulatory fines and penalties, and credit monitoring expenses with limits sufficient to respond to these obligations.
- 5. Indemnification.** The Vendor shall indemnify and hold harmless the District, its Board, members of the Board, agents and employees of the District, to against any and all claims, liabilities, expenses or damages, including responsible attorneys' fees, for injury or death of any person, or damage to property, or interference with use of property, or any claim of the Vendor or sub-Vendor for wages or benefits which arise in connection with the performance of Contract, except to the extent caused or resulting from the negligence or misconduct of the District, its Board, members of the Board, agents and employees of the District. The foregoing indemnity includes, but is not limited to, the cost of prosecuting or defending such action with legal counsel acceptable to the District and the District's attorneys' fees incurred in such an action.
- 6. Use and Protection of District Data.** All data and information supplied to Vendor in connection with its performance of any services on behalf of the District shall be referred to herein as "District Data". District shall retain ownership of all District Data and District Data shall not be used by Vendor other than as necessary for the performance of its services pursuant to this Agreement. At no time will Vendor aggregate or use District Data for any other purpose, whether or not identifying information has been redacted, without the prior written consent of District. At all times that District Data is being transferred by Vendor or is in the possession or control of Vendor, it shall keep such data encrypted and shall maintain security and intrusion prevention and detection protocols that are consistent with information technology best practices in place to prevent unauthorized access to District Data. Vendor will promptly notify District of any unauthorized access by a third party to Vendor's networks or devices that may have compromised District Data and will cooperate with District to comply with any legal requirements with respect to notification of same.
- 7. Access to District Networks.** At all times when accessing District networks directly or District Data that is stored on behalf of District in the cloud with a service provider, Vendor will comply with the requirements of the District or its service provider with respect to secure access, including any requirement that such access be handled through a VPN, secure entry point or other secure connection. Neither Vendor, its employees, nor contractors will introduce any malware (including but not limited to a virus, worm, ransomware, tracking software or any disabling device) into the network of the District or its service providers.
- 8. Limitation on Liability Regarding Data Security.** Notwithstanding any other provision of this Agreement with respect to the limitation of Vendor's liability, Vendor will indemnify District for any damage, claim or liability that results from the failure of Vendor to handle and store District Data or to access District or service provider networks in breach of its obligations under this Agreement.
- 9. Laws, Venue, and Attorneys' Fees.** This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this Agreement, the action shall be brought in a state or federal court situated in the County of Riverside, State of California. In the event of any such litigation between the parties, the prevailing party shall be entitled to recover all reasonable costs incurred, including reasonable attorney's fees, as determined by the court.
- 10. Termination.** The District may terminate or abandon any portion or all of the Work by giving 10 calendar days written notice to Vendor. In such event, the District shall be immediately given title and possession to all original field notes, drawings and specifications, written reports and other documents produced or developed for the Work. The District shall pay Vendor the reasonable value of any portion of the Work completed prior to termination. The District shall not be liable for any costs other than the charges or portions thereof which are specified herein. Vendor shall not be entitled to payment for unperformed Work, and shall not be entitled to damages or compensation for termination of Work. Vendor may terminate its obligation to provide further Work under this Agreement upon 30 calendar days' written notice to the District only in the event of District's failure to perform in accordance with the terms of this Agreement through no fault of Vendor.
- 11. Contract Terms.** Nothing herein shall be construed to give any rights or benefits to anyone other than the District and Vendor. The unenforceability, invalidity or illegality of any provision(s) of this Agreement shall not render the other provisions unenforceable, invalid or illegal. Notice may be given or delivered by depositing the same in any United States Post Office, certified mail, return receipt requested, postage prepaid, addressed to the parties to the addresses set forth in the purchase order. Vendor shall not assign, sublet, or transfer this Agreement or any rights under or interest in this Agreement without the written consent of the District, which may be withheld for any reason. Vendor is retained as an independent Vendor and is not an employee of the District. This is an integrated Agreement representing the entire understanding of the parties as to those matters contained herein, and supersedes and cancels any prior oral or written understanding or representations with respect to matters covered hereunder. This Agreement may not be modified or altered except in writing signed by both parties hereto.

Attachment 3



**PURCHASE ORDER NUMBER
76322-0-MAT**

**PO number and item numbers must appear on
all invoices and packing slips.**

Date: 06/07/2023

Page: 1 of 1

Securing Your Water Supply

Western Municipal Water District
14205 Meridian Parkway
Riverside, CA 92518-3045
(951) 571-7100 FAX (951)571-0591

Vendor No. 10591
BUD FERGUSON'S INDUSTRIAL CONT
9070 DICE ROAD
SANTA FE SPRINGS CA 90670
United States of America

Vendor Contact: JOSEPH FERGUSON
Phone: 562 692-0228
Fax: 562 692-0735
Email: joe@fergieman.com

Purchases by Western Municipal Water District are subject to applicable sales and use tax, as required by California Sales and Use Tax Law and Regulations

EI Sobrante Warehouse Delivery Hours: 8:00am - 12:00pm 1:00pm - 3:30 pm

Ship To:
Western Municipal Water Dist.
16451 El Sobrante Rd
Riverside CA 92503-7607

Freight Terms: FOB Destination
Payment Terms: NET 30
Buyer: Dean Standing Warrior

Bill To:
Western Municipal Water Dist.
14205 Meridian Parkway
Riverside CA 92518-3045
westerninvoices@wmwd.com

Delivery Due Date:
Ship Via:

LINE	DESCRIPTION	UOM	QTY	UNIT COST	EXTENDED COST
1	UL COMMERCIAL PARENT 48A WITH SI Catalog No.: 8EM13105CF141GA2 Quantity: 12	EA	12.00	2,022.11	24,265.32
2	VC DUAL POST 72I (S BY S) with Dual CRS Catalog No.: US2 with Dual CRS Catalog No.: US2:VCPOSTCR2S	EA	6.00	1,475.52	8,853.12
3	MUTIL-CARRIER POOLED DATA PLAN Catalog No.: US2:DATA1YRMULTI X12	EA	1.00	4,942.08	4,942.08
4	ON-SITE STARTUP FOR 10 CHARGERS Catalog No.: US2:ACSTARTUP10	EA	1.00	4,705.88	4,705.88
5	ON-SITE STARTUP FOR 4 CHARGERS Catalog No.: US2:ACSTARTUP4	EA	1.00	2,823.53	2,823.53
6	1 YEAR SERVICE Includes Connect features plus financial and consumption--ACCHARGE1 X12 Per proposal #fergir00c_06272206_00_01_M00. Freight charge built into pricing.	EA	1.00	2,376.00	2,376.00

As Vendor provides services and/or goods through this purchase order, Vendor shall invoice Western within 30 days with physical or electronic invoices at one of the "Bill To" addresses noted on this purchase order. Any other arrangement must be agreed to in advance and in writing by both Western and Vendor.

ATTN. VENDOR: **Invoices MUST include the appropriate PO number.**

SUBTOTAL	47,965.93
SALES TAX	2,566.68
SHIPPING	0.00
TOTAL	50,532.61

ATTENTION AND ACKNOWLEDGEMENT: THIS PURCHASE ORDER IS SUBJECT TO THE TERMS AND CONDITIONS ON THIS PAGE AND THE REVERSE PAGE

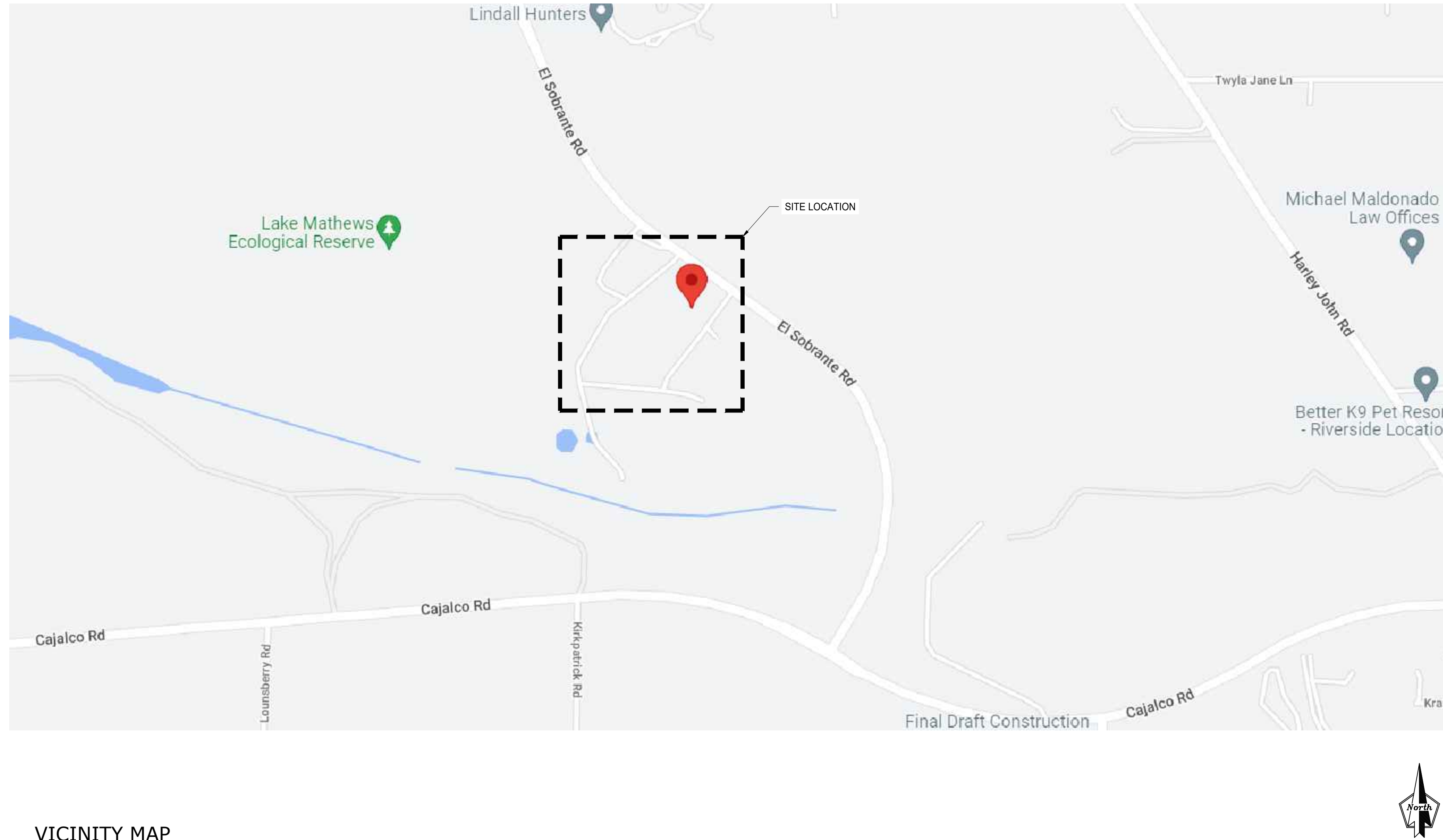
PURCHASE ORDER TERMS AND CONDITIONS

1. Compensation. Purchase Order amount shall include the full compensation for providing all required goods and/or services, as specified on the Purchase Order, and no additional compensation will be allowed unless otherwise provided for in the Purchase Order. Western Municipal Water District (District) will not be responsible for any expenditure overruns and will not pay for work exceeding the dollar limit on the Purchase Order unless a Purchase Order Revision to cover those costs has been issued. Vendor/Consultant (Vendor) shall be paid on a time and materials or lump sum basis, as may be agreed upon by the parties as described in this Purchase Order, or in attached documents and made a part hereof, within 30 days of receipt of invoice. If Work is performed on a time and materials basis, the invoice shall include a detailed description of the Work performed.
2. Compliance with Law. Vendor shall comply with all applicable laws and regulations of the federal, state and local government. Vendor shall assist District, as requested, in obtaining and maintaining all permits required of Vendor by Federal, State and local regulatory agencies. Vendor is responsible for all costs of clean up and/or removal of hazardous and toxic substances spilled as a result of his or her Work. Vendor is aware of the requirements of California Labor Code Sections 1720 et seq. and 1770 et seq., which require the payment of prevailing wage rates and the performance of other requirements on certain "public works" and "maintenance" projects. If the Work is being performed as part of an applicable "public works" or "maintenance" project, as defined by the Prevailing Wage Laws, and if the total compensation is \$1,000 or more, Vendor agrees to fully comply with such Prevailing Wage Laws, including without limitation any and all requirements related to contractor and subcontractor registration. Vendor shall defend, indemnify and hold the District, its elected officials, officers, employees and agents free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or alleged failure to comply with the Prevailing Wage Laws. It shall be mandatory upon the Vendor and all sub-contractors to comply with all California Labor Code provisions, which include but are not limited to prevailing wages, contractor registration, employment of apprentices, hours of labor and debarment of Vendors.
3. Standard of Care. The Vendor shall perform the Work in accordance with generally accepted professional practices and principles and in a manner consistent with the level of care and skill ordinarily exercised by members of the profession practicing under similar conditions. Vendor shall also comply with State and Federal Environmental and Safety Regulations as they apply to the scope of Work.
4. Insurance. During the performance of all Work under this Agreement, including self-delivery of any goods, the Vendor shall take out and maintain: A. Commercial General Liability Insurance, of at least \$1,000,000 per occurrence/ \$2,000,000 aggregate for bodily injury, personal injury and property damage, at least as broad Insurance Work Office Commercial General Liability coverage (Occurrence Form CG 0001); B. Automobile Liability Insurance for bodily injury and property damage including coverage for owned, non-owned and hired vehicles, of at least \$1,000,000 per occurrence for bodily injury and property damage, at least as broad as Insurance Work Office Form Number CA 0001 (ed. 6/92) covering automobile liability, Code 1 (any auto); Items A and B shall name the District as "Additional Insured"; and C. Workers' Compensation Insurance of at least \$1,000,000 per occurrence, in compliance with applicable statutory requirements and Employer's Liability Coverage. Insurance carriers shall be authorized by the Department of Insurance, State of California, to do business in California and maintain an agent for process within the state. Waiver of Subrogation: The Worker's Compensation Insurance provider shall agree to waive all rights of subrogation against the District, its elected or appointed officers, officials, agents, volunteers, and employees for losses paid under the terms of the policy which arise from work performed by the Named Insured for the District; but this provision shall apply regardless of whether or not the District has received a waiver of subrogation from the insurer. Such insurance carriers shall have not less than an "A-"; "Class VII" according to the latest Best Key Rating unless otherwise approved by the District. Vendor shall ensure that third party shippers contracted by the Vendor have adequate insurance coverage. Insurance Required for Vendors that are Technology Providers, or that May have Access to District Data. Vendor shall obtain cyber liability (technology professional liability - errors and omissions) insurance coverage with limits not less than \$2,000,000 per occurrence or claim, and \$2,000,000 aggregate or the full per occurrence limits of the policies available, whichever is greater. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by the Vendor in this Agreement and shall include, but not be limited to, claims involving infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress, invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, alteration of electronic information, extortion and network security. The insurance policy shall provide coverage for breach response costs, regulatory fines and penalties, and credit monitoring expenses with limits sufficient to respond to these obligations.
5. Indemnification. The Vendor shall indemnify and hold harmless the District, its Board, members of the Board, agents and employees of the District, to against any and all claims, liabilities, expenses or damages, including responsible attorneys' fees, for injury or death of any person, or damage to property, or interference with use of property, or any claim of the Vendor or sub-Vendor for wages or benefits which arise in connection with the performance of Contract, except to the extent caused or resulting from the negligence or misconduct of the District, its Board, members of the Board, agents and employees of the District. The foregoing indemnity includes, but is not limited to, the cost of prosecuting or defending such action with legal counsel acceptable to the District and the District's attorneys' fees incurred in such an action.
6. Use and Protection of District Data. All data and information supplied to Vendor in connection with its performance of any services on behalf of the District shall be referred to herein as "District Data". District shall retain ownership of all District Data and District Data shall not be used by Vendor other than as necessary for the performance of its services pursuant to this Agreement. At no time will Vendor aggregate or use District Data for any other purpose, whether or not identifying information has been redacted, without the prior written consent of District. At all times that District Data is being transferred by Vendor or is in the possession or control of Vendor, it shall keep such data encrypted and shall maintain security and intrusion prevention and detection protocols that are consistent with information technology best practices in place to prevent unauthorized access to District Data. Vendor will promptly notify District of any unauthorized access by a third party to Vendor's networks or devices that may have compromised District Data and will cooperate with District to comply with any legal requirements with respect to notification of same.
7. Access to District Networks. At all times when accessing District networks directly or District Data that is stored on behalf of District in the cloud with a service provider, Vendor will comply with the requirements of the District or its service provider with respect to secure access, including any requirement that such access be handled through a VPN, secure entry point or other secure connection. Neither Vendor, its employees, nor contractors will introduce any malware (including but not limited to a virus, worm, ransomware, tracking software or any disabling device) into the network of the District or its service providers.
8. Limitation on Liability Regarding Data Security. Notwithstanding any other provision of this Agreement with respect to the limitation of Vendor's liability, Vendor will indemnify District for any damage, claim or liability that results from the failure of Vendor to handle and store District Data or to access District or service provider networks in breach of its obligations under this Agreement.
9. Laws, Venue, and Attorneys' Fees. This Agreement shall be interpreted in accordance with the laws of the State of California. If any action is brought to interpret or enforce any term of this Agreement, the action shall be brought in a state or federal court situated in the County of Riverside, State of California. In the event of any such litigation between the parties, the prevailing party shall be entitled to recover all reasonable costs incurred, including reasonable attorney's fees, as determined by the court.
10. Termination. The District may terminate or abandon any portion or all of the Work by giving 10 calendar days written notice to Vendor. In such event, the District shall be immediately given title and possession to all original field notes, drawings and specifications, written reports and other documents produced or developed for the Work. The District shall pay Vendor the reasonable value of any portion of the Work completed prior to termination. The District shall not be liable for any costs other than the charges or portions thereof which are specified herein. Vendor shall not be entitled to payment for unperformed Work, and shall not be entitled to damages or compensation for termination of Work. Vendor may terminate its obligation to provide further Work under this Agreement upon 30 calendar days' written notice to the District only in the event of District's failure to perform in accordance with the terms of this Agreement through no fault of Vendor.
11. Contract Terms. Nothing herein shall be construed to give any rights or benefits to anyone other than the District and Vendor. The unenforceability, invalidity or illegality of any provision(s) of this Agreement shall not render the other provisions unenforceable, invalid or illegal. Notice may be given or delivered by depositing the same in any United States Post Office, certified mail, return receipt requested, postage prepaid, addressed to the parties to the addresses set forth in the purchase order. Vendor shall not assign, sublet, or transfer this Agreement or any rights under or interest in this Agreement without the written consent of the District, which may be withheld for any reason. Vendor is retained as an independent Vendor and is not an employee of the District. This is an integrated Agreement representing the entire understanding of the parties as to those matters contained herein, and supersedes and cancels any prior oral or written understanding or representations with respect to matters covered hereunder. This Agreement may not be modified or altered except in writing signed by both parties hereto.

Attachment 4

SOUTHERN CALIFORNIA EDISON CHARGE READY PROGRAM WESTERN MUNICIPAL WATER DISTRICT - RIVERSIDE

16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
SCE PROJECT ID: CRT-2022-0041



VICINITY MAP



SITE MAP



PROJECT DIRECTORY

ADDRESS:
WESTERN MUNICIPAL WATER DISTRICT - RIVERSIDE
16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
SCE PROJECT ID: CRT-2022-0041

SITE DEVELOPER:
SOUTHERN CALIFORNIA EDISON (SCE)
BRIAN CATON
PROJECT MANAGER
TRANSPORTATION ELECTRIFICATION
PROJECT MANAGEMENT
CELL: 909-767-0098
BRIAN.CATON@SCE.COM

PROPERTY OWNER:
METROPOLITAN WATER DISTRICT (MWD),
LESSEE - WESTERN MUNICIPAL WATER DISTRICT
14205 MERIDIAN PKWY
RIVERSIDE, CA 92518

ENGINEER OF RECORD:
BRYTEMOVE ENERGY
RAOUL L. WOOD, P.E., LEED AP, CEM
909-477-1474
RAOUL.WOOD@VERIZON.NET

PROPERTY DESCRIPTION
APN: 285-120-030

PROJECT COORDINATOR:
BRYTEMOVE ENERGY
VICTOR CALDERON
PROJECT MANAGER
714-904-6829
VCALDERON@BRYTEMOVE.COM

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- 2020 NATIONAL ELECTRICAL CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- 2022 CALIFORNIA BUILDING CODE
- 2022 CALIFORNIA GREEN BUILDING CODE
- 2022 CALIFORNIA MECHANICAL CODE
- 2022 CALIFORNIA PLUMBING CODE

SCOPE OF WORK

- INSTALL ONE (1) NEW 800A, 120/208V, 3PH, 4W MAIN SWITCHGEAR "EV-MSB".
- INSTALL NINE (9) NEW TEMPORARY TERMINAL BLOCK FOR FUTURE SINGLE PORT L2 EV CHARGERS.
- ALL EV PARKING IS PRIVATE USE AND ASSIGNED, THEREFORE IT IS EXEMPT FROM ACCESSIBILITY REQUIREMENTS PER 2022 CBC 11B-228.3.2 EXCEPTION 1.

UNDERGROUND SERVICE ALERT



UNDERGROUND SERVICE ALERT
UTILITY NOTIFICATION CENTER OF SOUTHERN CALIFORNIA
811 OR (800) 422-4133

3 WORKING DAYS UTILITY NOTIFICATION PRIOR TO CONSTRUCTION

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

EROSION CONTROL NOTES:

- EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE IMPLEMENTED AND MAINTAINED TO MINIMIZE AND/OR PREVENT THE TRANSPORT OF SOIL FROM THE CONSTRUCTION SITE.
- APPROPRIATE BMPs FOR CONSTRUCTION RELATED MATERIALS, WASTES, SPILLS, OR RESIDUES SHALL BE IMPLEMENTED TO ELIMINATE OR REDUCE TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES, OR ADJOINING PROPERTIES BY WIND OR RUNOFF.

SHEET INDEX

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G-0.1	GENERAL NOTES, SYMBOLS, & ABBREVIATIONS
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1 OF 1	TOPOGRAPHIC SURVEY
E-1	PLOT PLAN
E-1.1	SITE PLAN
E-2	DEMOLITION PLAN
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E-5.1	TRENCH RUN & DETAIL
E-6	SPECIFICATION SHEET

PROJECT SITE

WESTERN MUNICIPAL WATER DISTRICT - RIVERSIDE
16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
PROJECT ID: CRT-2022-0041
PROJECT DEVELOPER



SOUTHERN CALIFORNIA EDISON CO.
CHARGE READY PROGRAM
2244 WALNUT GROVE AVENUE
ROSEMEAD, CA 91770
TEL: (800) 6554555



BRYTEMOVE ENERGY
12 MORGAN
IRVINE, CA 92618
TEL: (714) 908-5266
www.brytemove.com

NOT FOR CONSTRUCTION

REVISION

MARK	DATE	DESCRIPTION
V1	02-05-2024	CD99

DRAWN BY: TP
CHECKED BY: RW
SCALE: AS SHOWN
DATE: 2/5/24

SHEET TITLE

TITLE PAGE

SHEET NUMBER

G-0

GENERAL CIVIL

PART 1 - GENERAL

CLEARING, GRUBBING, STRIPPING, EROSION CONTROL, SURVEY, LAYOUT, SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS.

1.1 REFERENCES:

- A. (STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION-CURRENT EDITION).
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION).

1.2 INSPECTION AND TESTING:

- A. FIELD TESTING OF EARTHWORK COMPACTION AND CONCRETE CYLINDERS SHALL BE PERFORMED BY AN INDEPENDENT TESTING LAB. THIS WORK TO BE COORDINATED BY THE CONTRACTOR.
- B. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE GENERAL CONTRACTOR WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK WITH SPECIFIC CONCERN TO PROPER PERFORMANCE OF THE WORK AS SPECIFIED AND/OR CALLED FOR ON THE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.

1.3 SITE MAINTENANCE AND PROTECTION:

- A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT.
- B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN. TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR REMOVAL FROM BEING DAMAGED BY THE WORK.
- C. KEEP SITE FREE OF ALL PONDING WATER.
- D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA REQUIREMENTS.
- E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- G. PROVIDE A MINIMUM 72-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.

PART 2 - PRODUCTS

2.1 GRANULAR BACKFILL: SHALL MEET THE FOLLOWING GRADATION:

2.2 GRANULAR BEDDING AND TRENCH BACKFILL: WELL-GRADED SAND MEETING THE GRADATION REQUIREMENTS OF ASTM D2487 (SE OR SW-SM).

2.3 UNSUITABLE MATERIAL: HIGH AND MODERATELY PLASTICS SILTS AND CLAYS (LL>45). MATERIAL CONTAINING REFUSE, FROZEN LUMPS, DEMOLISHED BITUMINOUS MATERIAL, VEGETATIVE MATTER, WOOD, STONES IN EXCESS OF 3 INCHES IN ANY DIMENSION, AND DEBRIS AS DETERMINED BY THE CONSTRUCTION MANAGER. TYPICAL THESE WILL BE SOILS CLASSIFIED BY ASTM AS PT, MH, CH, OH, ML, AND OL.

SIEVE SIZE TOTAL PERCENT PASSING

1 1/2 INCH (37.5 MM)	100
1 INCH (25.0 MM)	75 TO 100
3/4 INCH (19.00 MM)	80 TO 100
3/8 INCH (9.5 MM)	35 TO 75
NO. 4 (4.75 MM)	35 TO 60
NO. 30 (0.600 MM)	7 TO 30
NO. 200 (0.75 MM)	3 TO 15

PART 3 - EXECUTION

3.1 GENERAL:

- A. BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.
- B. BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK.
- C. CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE. REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS AND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED.
- D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS.
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL.
- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED.
- H. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES INDICATED ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNER.
- J. DURING EXCAVATION, THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.
- K. THE BASE OF ALL FOUNDATION EXCAVATIONS SHOULD BE FREE OF WATER AND LOOSE SOIL PRIOR TO PLACING CONCRETE. CONCRETE SHOULD BE PLACED AS SOON AS POSSIBLE AFTER EXCAVATING TO MINIMIZE BEARING SOIL DISTURBANCE. SHOULD THE SOILS AT BEARING LEVEL BECOME EXCESSIVELY DRY, SATURATED, DISTURBED OR OTHERWISE ALTERED, THE AFFECTED SOIL SHOULD BE REMOVED PRIOR TO PLACING CONCRETE.

3.2 BACKFILL:

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.
- D. BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8-INCHES LOOSE THICKNESS AND COMPACTED. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.

- E. WHENEVER THE DENSITY TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY, SUCH AS DISKING AND DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE MINIMUM COMPACTION REQUIREMENTS.

- F. THOROUGHLY COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- C. WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING.
- D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12 INCHES OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.5 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES.

- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.

- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

- D. CONTRACTOR TO GRADE SITE TO DRAIN AND NOT POND WATER.

3.6 ASPHALT PAVING:

- A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING PER LOCAL DOT SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.

ELECTRICAL SPECIFICATIONS

A. CONDITIONS

FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.

B. CODES, REGULATIONS, AND STANDARDS

1. THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LOCAL AND STATE CODES AND ORDINANCES, WITH THE REGULATIONS OF THE CURRENTLY ACCEPTED EDITION OF THE NATIONAL ELECTRIC CODE.
2. THE FOLLOWING INDUSTRY STANDARDS, SPECIFICATIONS, AND CODES ARE MINIMUM REQUIREMENTS:
 - THE NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION (NEMA) STANDARDS.
 - THE NATIONAL ELECTRICAL CODE (NEC), INCLUDING LOCAL AMENDMENTS.
 - UNDERWRITER LABORATORIES (UL) INCORPORATED STANDARDS.
 - NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)
 - AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI).

C. INSPECTION OF SITE

1. PRIOR TO SUBMITTING A BID FOR ELECTRICAL WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE PROPOSED CONSTRUCTION AND SHALL THOROUGHLY ACQUAINT HIMSELF WITH EXISTING UTILITIES, AND WORKING CONDITIONS TO BE ENCOUNTERED, ETC. ALLOWANCE WILL NOT BE MADE FOR NONCOMPLIANCE WITH THIS CONDITION AFTER BIDDING.

D. STORAGE AND HANDLING OF MATERIAL

1. DELIVER MATERIALS AND EQUIPMENT TO THE PROJECT IN THE MANUFACTURER'S ORIGINAL, UNOPENED, LABELED CONTAINERS. PROTECT AGAINST MOISTURE, TAMPERING, OR DAMAGE FROM IMPROPER HANDLING OR STORAGE. CONTRACTOR SHALL PROTECT AND BE RESPONSIBLE FOR ANY DAMAGE TO WORK OR MATERIALS UNTIL FINAL ACCEPTANCE BY THE OWNER, AND SHALL MAKE GOOD WITHOUT COST TO THE OWNER, ANY DAMAGE OR LOSS THAT MAY OCCUR DURING THIS PERIOD.

2. ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION.
3. COVER AND PROTECT ANY MATERIAL WHICH MAY BE AFFECTED BY THE WEATHER WHILE IN TRANSIT OR STORED AT THE PROJECT SITE. ANY MATERIAL FOUND DEFECTIVE OR NOT INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS MAY BE REJECTED BY THE ENGINEER.

E. DRAWINGS

THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT AND LOCATIONS OF THE ELECTRICAL WORK. DATA PRESENTED ON THESE DRAWINGS IS AS ACCURATE AS PLANNING CAN DETERMINE, FIELD VERIFICATION OF ALL DIMENSIONS, LOCATIONS, LEVELS, ETC., TO SUIT FIELD CONDITIONS IS REQUIRED. REVIEW ALL ARCHITECTURAL, CIVIL AND STRUCTURAL DRAWINGS AND ADJUST ALL WORK TO MEET THE REQUIREMENTS OF ACTUAL FIELD CONDITIONS. DISCREPANCIES BETWEEN DIFFERENT PLANS, OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING. IF DISCREPANCIES ARE NOT REPORTED, THE CONTRACTOR SHALL BID THE GREATER QUANTITY OR BETTER QUALITY, AND APPROPRIATE ADJUSTMENTS WILL BE MADE AFTER CONTRACT AWARD. CONTRACTOR SHALL BE RESPONSIBLE TO FIELD MEASURE AND CONFIRM MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS, USE ACTUAL FIELD VERIFIED DIMENSIONS.

F. EXCAVATION, CUTTING, AND FITTING

1. PERFORM THE EXCAVATION, CUTTING, FITTING, REPAIRING, AND FINISHING OF THE WORK NECESSARY FOR THE INSTALLATION OF THE EQUIPMENT OF THIS SECTION. HOWEVER, NO CUTTING OF THE WORK OF OTHER TRADES OR OF ANY STRUCTURAL MEMBERS SHALL BE DONE WITHOUT THE CONSENT OF THE OWNER.

PART II - PRODUCTS AND EXECUTION

A. MATERIALS

ALL MATERIALS SHALL BE NEW AND OF QUALITY AS SPECIFIED ON THE PLANS OR SPECIFICATIONS AND MUST CARRY THE UNDERWRITER'S LABORATORIES APPROVAL COVERING THE PURPOSE FOR WHICH THEY ARE USED, IN ADDITION TO MEETING ALL REQUIREMENTS OF THE CURRENT APPLICABLE CODES AND REGULATIONS.

B. CONDUIT

1. RACEWAYS: UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT SHALL BE R.G.S., SCHEDULE 80 AND CONVERTED 6" BELOW FINISHED GRADE TO BE PVC, SCHEDULE 40. PROVIDE WEATHER PROOF FLEX CONNECTIONS WHERE REQUIRED. CONTRACTOR SHALL PROVIDE JUNCTION AND/OR PULL BOXES WHERE SHOWN ON THE DRAWINGS, OR AS REQUIRED, WHETHER SHOWN ON THE DRAWINGS OR NOT, AND SIZED PER NEC. PROVIDE NON-METALLIC ENCLOSURE WITH OPEN BOTTOM AND GASKETED COVER MANUFACTURED BY QUAZITE OR EQUIVALENT WITH DRIVE-OVER COVER ABLE TO WITHSTAND OCCASIONAL NON-DELIBERATE LIGHT VEHICULAR TRAFFIC. LABEL COVER TO SUIT INSTALLATION (I.E."POWER" "COMMUNICATIONS", "LIGHTING",ETC.) AND INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE MINIMUM OF 3/4".
3. CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS - 200 LBS TEST POLYETHYLENE CORD. ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS. RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. AL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
4. OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
5. PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEXCORPORATION; ANAMET INCORPORATED, ANACONDA METAL HOSE; ANIXTED BROTHERS INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRIC-FLEX COMPANY; GRINNELL COMPANY, ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY, AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBECOMPANY.

PROJECT SITE

WESTERN MUNICIPAL WATER
DISTRICT - RIVERSIDE
16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
PROJECT ID: CRT-2022-0041

PROJECT DEVELOPER



SOUTHERN CALIFORNIA EDISON CO.
CHARGE READY PROGRAM
2244 WALNUT GROVE AVENUE
ROSEMead, CA 91770
TEL: (800) 6554555



BRYTEMOVE ENERGY
12 MORGAN
IRVINE, CA 92618
TEL: (714) 908-5266
www.brytemove.com

NOT FOR CONSTRUCTION

REVISION

MARK	DATE	DESCRIPTION
V1	02-05-2024	C090

DRAWN BY: TP
CHECKED BY: RW
SCALE: AS SHOWN
DATE: 2/5/24

SHEET TITLE

NOTES #2

SHEET NUMBER

G-0.2

ELECTRICAL SPECIFICATIONS

6. PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED, ANACONDA METAL HOSE; CANTEX INDUSTRIES, HARSCO CORPORATION; CONDUX INTERNATIONAL, ELECTRICAL PRODUCTS; HUBBELL INCORPORATED,RACO, INCORPORATED; THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.

7. PROVIDE CONDUIT BODIES AND FITTINGS MANUFACTURED BY ONE OF THE FOLLOWING:CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; EMERSON ELECTRIC COMPANY, APPLETON ELECTRIC COMPANY; HUBBELL INCORPORATED, KILLARK ELECTRIC MANUFACTURING COMPANY;THOMAS & BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS; OR O-Z/GEDNEY, UNIT OF GENERAL SIGNAL.

8. PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/REES, INCORPORATED; OR SQUARED D COMPANY.

9. PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED BY ONE OF THE FOLLOWING:CROUSE-HINDS, DIVISION OF COOPER INDUSTRIES; HOFFMAN ENGINEERING COMPANY, FEDERAL-HOFFMAN INCORPORATED; HUBBELL INCORPORATED, RACO INCORPORATED; THOMAS & BETTS, CARLON ELECTRICAL PRODUCTS; O-Z/GEDNEY, UNIT OF GENERAL SIGNAL; ROBROY INDUSTRIES INCORPORATED, ELECTRICAL DIVISION; OR SCOTT FETZER COMPANY, ADALET-PLM.

10. EXPOSED CONDUITS SHALL BE RGS BELOW 10 FEET AND CAN BE EMT ABOVE 10 FEET. THREADED COUPLINGS ON RGS AND STEEL, COMPRESSION ON EMT.

C. OUTLET, PULL, AND JUNCTION BOXES

1. EACH SWITCH, LIGHT, RECEPTACLE OR OTHER OUTLET SHALL BE PROVIDED WITH A CODE GAUGE, GALVANIZED STEEL OUTLET BOX. JUNCTION AND PULL BOXES SHALL BE CODE GAUGE, GALVANIZED STEEL. OUTLET BOXES SHALL BE OF THE ONE PIECE, KNOCKOUT TYPE, IN GENERAL 4" SQUARE WITH PLASTER RING. PLASTER RINGS SHALL BE SET TO PROVIDE NOT MORE THAN 1/8" FROM WALL SURFACE TO RING. IN NO CASE SHALL PLASTER RING PROJECT BEYOND SURFACE OF WALL. SINGLE GANG RINGS SIMILAR TO STEEL CITY 52050 SHALL BE USED FOR 4" BOXES IN UNFINISHED BRICK NUMBER 180 BOXES MAY BE USED FOR UNFINISHED MASONRY FLUSH WALL OUTLETS. CENTER ALL OUTLET BOXES IN BLOCK COURSE.

2. BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON OR STEEL WITH WATERTIGHT GASKETED COVERS. WHERE BOXES ARE INSTALLED IN FLOORS WITH TILE OR CARPET FLOOR COVERING, COVERS SHALL BE OF THE RECESSED TYPE TO ACCOMMODATE THE FLOOR COVERING.

3. ALL JUNCTION BOXES TO BE CAST METAL TYPE FD OR TYPE FS ONLY.

D. SWITCHBOARDS

1. PROVIDE SWITCHBOARDS MANUFACTURED IN ACCORDANCE WITH ARTICLE 408 OF THE LATEST NATIONAL ELECTRICAL CODE AND APPLICABLE PORTIONS OF THE NEMA PB2, UL 891 AND NFPA 70, THE NATIONAL ELECTRICAL CODE.

2. CONSTRUCTION: INTEGRATED SWITCHBOARD SHALL BE OF THE MODULAR TYPE CONSTRUCTION, CONSTRUCTED IN ACCORDANCE WITH THE LATEST NEMA PB-2 AND UL 891STANDARDS, WITH THE REQUIRED NUMBER OF VERTICAL SECTIONS BOLTED TOGETHER TO FORM ONE METAL ENCLOSED RIGID INTEGRATED SWITCHBOARD. THE SIDES, TOP AND REAR SHALL BE COVERED WITH REMOVABLE SCREW-ON CODE GAUGE STEEL PLATES. INTEGRATED SWITCHBOARD SHALL INCLUDE ALL PROTECTIVE DEVICES AND EQUIPMENT AS LISTED ON DRAWINGS WITH NECESSARY INTERCONNECTIONS, INSTRUMENTATION AND CONTROL WIRING. ALL GROUPS OF CONTROL WIRES LEAVING THE INTEGRATED SWITCHBOARD SHALL BE PROVIDED WITH TERMINAL BLOCKS WITH SUITABLE NUMBERING STRIPS. SERVICE ENTRANCE INTEGRATED SWITCHBOARD SHALL BE SUITABLE ONLY FOR USE AS SERVICE EQUIPMENT AND BE LABELED IN ACCORDANCE WITH UL REQUIREMENTS. SYSTEM VOLTAGE, AMPERAGE AND INTERRUPTING CAPACITY SHALL BE AS INDICATED ON THE DRAWINGS. ENCLOSURE CONSTRUCTION SHALL BE AS NOTED ON PLANS.

3. BUS: THE BUS SHALL BE OF SUFFICIENT SIZE TO LIMIT THE TEMPERATURE RISE TO 65 DEGREE C, BASED ON UL TESTS (1000A/SQ-IN FOR COPPER) AND SHALL BE FULLY RATED THE ENTIRE LENGTH OF THE INTEGRATED SWITCHBOARD. THE BUS SHALL BE BRACED AND SUPPORTED TO WITHSTAND MECHANICAL FORCES EXERTED DURING A SHORT CIRCUIT FROM A POWER SOURCE HAVING THE AVAILABLE SHORT CIRCUIT CURRENT AS INDICATED ON THE DRAWINGS. PROVIDE A FULL CAPACITY NEUTRAL WHERE A NEUTRAL IS INDICATED ON THE DRAWINGS. THE THROUGH BUS ON THE END SECTION SHALL BE EXTENDED AND PRE-DRILLED TO ALLOW THE ADDITION OF FUTURE SECTIONS. GROUND BUS AND GROUNDING CONDUCTOR LUG SHALL BE FURNISHED. GROUND BUS SHALL EXTEND THE ENTIRE LENGTH OF THE SWITCHBOARD AND SHALL BE FIRMLY SECURED TO EACH VERTICAL SECTION. BUS MATERIAL SHALL BE SILVER-PLATED COPPER.

4. INCOMING UNDERGROUND SERVICE: TO ISOLATE INCOMING UNDERGROUND SERVICE CONDUCTORS, AN UNDERGROUND CABLE PULL OR AUXILIARY SECTION SHALL BE USED WHEN SHOWN ON THE DRAWINGS. THIS SECTION SHALL BE OF THE BUSSED TYPE AND SHALL BE SEALABLE PER LOCAL UTILITY REQUIREMENTS, WHEN REQUIRED.

5.SERVICE SECTION: THE SERVICE SECTION SHALL BE DESIGNED FOR THE SYSTEM PARAMETERS INDICATED AND SHALL HAVE A METERING COMPARTMENT PER UTILITY REQUIREMENTS) AS INDICATED AND SHALL HAVE A MAIN PROTECTIVE DEVICE INDICATED.

6. UTILITY METERING: THE UTILITY METERING SECTION SHALL BE BUILT IN ACCORDANCE WITH REQUIREMENTS AND CODES OF THE LOCAL UTILITY.]

7. DISTRIBUTION SECTIONS: PANEL-MOUNTED, FRONT ACCESSIBLE INDIVIDUAL SECTIONS SHALL BE FRONT ACCESSIBLE, NOT LESS THAN 20" DEEP AND THE REAR OF ALL SECTIONS SHALL ALIGN. INCOMING LINE TERMINATION, MAIN DEVICE CONNECTION AND ALL BOLTS USED TO JOIN CURRENT-CARRYING PARTS SHALL BE INSTALLED SO AS TO PERMIT SERVICING FROM THE FRONT ONLY SO THAT NO REAR ACCESS IS REQUIRED. THE BRANCH DEVICES SHALL BE FRONT REMOVABLE, AND PANEL MOUNTED WITH LINE AND LOAD SIDE CONNECTIONS FRONT ACCESSIBLE. THE INTERIOR SHALL BE CAPABLE OF ACCEPTING PANEL MOUNTED MOLDED CASE CIRCUIT BREAKERS OR FUSIBLE SWITCHES UP TO 1200 AMP RATING. CONSTRUCTION SHALL BE SIEMENS SB TYPE, OR APPROVED EQUAL.

8. FINISH: THE COMPLETE SWITCHBOARD SHALL BE PHOSPHATIZED AND FINISHED WITH ANSI 61 LIGHT GRAY POLYESTER POWDER PAINT.

9. MARKINGS: EACH SWITCHBOARD SECTION SHALL HAVE A LABEL PERMANENTLY AFFIXED TO IT, LISTING THE FOLLOWING INFORMATION: NAME OF MANUFACTURER, SYSTEM VOLTAGE, AMPACITY, TYPE, MANUFACTURER'S SHOP ORDER NUMBER AND DATE. EACH SECTION OF SWITCHBOARD SHALL BEAR A UL LISTING MARK, WHERE QUALIFIED AND A SHORT CIRCUIT RATING LABEL.FRONT, SIDE, REAR AND TOP OF EACH SWITCHBOARD SECTION WILL HAVE A DANGER LABEL IN ACCORDANCE WITH NEMA STANDARD PB-2.

E. PANEL BOARDS

1. PROVIDE PANELBOARDS MANUFACTURED IN ACCORDANCE WITH ARTICLE 408 OF THE LATEST NATIONAL ELECTRICAL CODE AND APPLICABLE PORTIONS OF THE NEMA PB1, UL50, UL 67 AND NFPA 70, THE NATIONAL ELECTRICAL CODE.

2. PANELBOARDS SHALL BE ENCLOSED DEAD FRONT SAFETY TYPE WITH FEATURES AND RATINGS AS SCHEDULED ON DRAWINGS. ALL BUS BARS SHALL BE RECTANGULAR SOLID COPPER. A 'PROVISION' CIRCUIT DESCRIPTION WHERE SHOWN IN PANEL SCHEDULES, DESIGNATES SPACE FOR FUTURE PROTECTIVE DEVICES AND SHALL INCLUDE BUS AND SUPPORT. PANELS KNOWN AS "LOAD CENTERS" ARE UNACCEPTABLE.

3. MOLDED CASE CIRCUIT BREAKERS SHALL BE AS SCHEDULED ON THE DRAWINGS AND SPECIFIED IN THIS DIVISION. ALL BREAKERS SHALL BE BOLT ON TYPE.

4. ALL BOLTED CONNECTIONS SHALL BE TORQUED IN ACCORDANCE WITH MANUFACTURERS STANDARDS. RETORQUE ALL CONNECTIONS ONE MONTH AFTER INITIAL TORQUE.

5. INSTALL CABINETS SO THAT CENTER OF THE TOP BREAKER DOES NOT EXCEED 6'-6" ABOVE THE FINISHED FLOOR.

6. ELECTRICAL CONTRACTOR SHALL ARRANGE CIRCUITS AS NEAR AS POSSIBLE TO CIRCUIT NUMBERS ON THE DRAWINGS. AT COMPLETION OF JOB, ELECTRICAL CONTRACTOR SHALL TAKE CURRENT READING CHECKS OF RESPECTIVE PHASES. A MINIMUM OF CIRCUIT CONNECTIONS SHALL BE REARRANGED TO BALANCE, AS CLOSELY AS POSSIBLE, THE LOAD IN THE PANEL. ENTRIES ON DIRECTORY CARDS SHALL BE TYPED, COMPLETE AND ACCURATE.

7. MANUFACTURER SHALL BE SQUARE D, SIEMENS, OR EATON CUTLER-HAMMER.

F. METERED COMMERCIAL PEDESTAL

ACCEPTABLE MANUFACTURER: MILBANK OR APPROVED EQUAL AMPACITY. AS NOTED ON PLANS VOLTAGE: AS NOTED ON PLANS SCCR RTATING: AS NOTED ON PLANS

1. THE PEDESTAL SHALL BE OF TYPE 3R RAINPROOF CONSTRUCTION AND SHALL BE UL LISTED. EXTERNAL CONSTRUCTION SHALL COMPLY WITH UL50 REQUIREMENTS AND SHALL BE OF G90 GALVANIZED STEEL WITH LIGHT GREEN #14672 FEDERAL SPECIFICATION S95 POLYURETHANE INDUSTRIAL GRADE POWDER PAINT OF 1.7 MIL MINIMUM THICKNESS (UNLESS OTHERWISE SPECIFIED), ALUMINUM AND STAINLESS STEEL ARE OTHER FACTORY OPTIONS AVAILABLE. INTERNAL CONSTRUCTION SHALL BE G90 GALVANIZED STEEL AND 1.7 MIL MINIMUM THICKNESS POLYURETHANE INDUSTRIAL GRADE POWDER COAT PAINTED OR BARE ALUMINUM. NO FASTENERS EXCEPT SEALING SCREWS SHALL BE REMOVABLE BY EXTERNAL ACCESS. HINGES SHALL BE STAINLESS STEEL AND OF THE CONTINUOUS PIANO HINGE TYPE.

2. THE PEDESTAL MOUNTING BOLTS SHALL NOT BE EXTERNALLY ACCESSIBLE. THE PEDESTAL SHALL BE OFFERED WITH AN OPTIONAL BASE DESIGNED TO BE EMBEDDED IN CONCRETE IN PLACE OF ANCHOR BOLTS. EITHER PEDESTAL MOUNTING BASE OR ANCHOR BOLT KIT IS REQUIRED FOR INSTALLATION.

3. THE SERVICE PEDESTAL MUST HAVE THREE SEPARATE ISOLATED SECTIONS FOR METERING EQUIPMENT, UTILITY TERMINATION AND CUSTOMER EQUIPMENT.

4. THE METERING SECTION MUST BE PAD-LOCKABLE AND SEALABLE AND HAVE A HINGED SWING BACK HOOD WITH AN INTEGRAL HINGED POLYCARBONATE SEALABLE WINDOW FOR ACCESS TO DEMAND METERS. AN EXTERNAL NAMEPLATE SHALL BE PERMANENTLY ATTACHED TO THE HOOD. A STAINLESS-STEEL HANDLE SHALL BE PROVIDED ON THE FRONT EXTERIOR OF THE HOOD. METER SOCKET TYPE SHALL MEET THE REQUIREMENTS OF THE SERVING UTILITY.

5. THE UTILITY TERMINATION SECTION MUST BE PAD-LOCKABLE AND SEALABLE AND SHALL HAVE A STAINLESS-STEEL HANDLE PROVIDED ON A LIFT-OFF COVER. SUFFICIENT CLEARANCE SHALL BE PROVIDED FOR A 4-INCH DIAMETER CONDUIT FOR UTILITY CABLES ENTRANCE. UTILITY LANDING LUGS SHALL ACCOMMODATE #6 - 350 KCMIL CONDUCTORS.

6. THE CUSTOMER COMPARTMENT DOOR TO BE HINGED ON THE LEFT-HAND SIDE. A STAINLESS PAD-LOCKABLE HASP PROVIDED TO SECURE CUSTOMER COMPARTMENT. A DOOR KEEPER PROVIDED TO KEEP THE DOOR IN AN OPEN POSITION. A PRINT POCKET ON THE INSIDE OF THE DOOR SHALL HOLD ALL WIRING SCHEMATICS, CIRCUIT DIRECTORIES AND INSTRUCTIONS IN A CLEAR, WEATHERPROOF SLEEVE. REQUIRED LABELING SHALL BE LOCATED ON THE INSIDE OF THE CUSTOMER DOOR. DISTRIBUTION AND CONTROL EQUIPMENT SHALL BE BEHIND AN INTERNAL DEAD-FRONT DOOR WITH A QUARTER-TURN SECURING LATCH AND BE HINGED TO OPEN MORE THAN 90 DEGREES. THE DEADFRONT DOOR SHALL BE HINGED ON THE SAME SIDE AS THE CUSTOMER SECTION DOOR. ALL DISTRIBUTION AND CONTROL EQUIPMENT SHALL BE FACTORY WIRED USING 600 VOLT WIRE SIZED TO UL REQUIREMENTS.

7. THE PROVIDED DOCUMENTATION SHALL LIST CIRCUIT BREAKER COMBINATIONS AND THOSE TO BE USED FOR DE-RATED OPERATION FOR SERIES RATINGS.

G. TRANSFORMERS

ACCEPTABLE MANUFACTURER: EATON OR APPROVED EQUAL DRY TYPE, INDOOR/OUTDOOR, CONVECTION-COOLED, TRANSFORMER CHARACTERISTICS AS FOLLOWS:

- RATING & VOLTAGES: AS INDICATED ON DRAWINGS
- IMPEDANCE AT 115C: STANDARD
- PRIMARY AND SECONDARY COIL MATERIAL: COPPER
- CORE MATERIAL: HIGH-GRADE, NON-AGING, SILICON ELECTRICAL STEEL
- ANGULAR DISPLACEMENT: SECONDARY LAGGING PRIMARY BY 30 (IEC: DY1)
- VOLTAGE TAPS: 2 - 2½% FCAN, 2 - 2½% FCBN, SILVER PLATED. TAPS TO BE BOLTED-LINK TYPE AND LOCATED AT FRONT OF COILS FOR ACCESSIBILITY
- INSULATION CLASS: 220°C
- TEMPERATURE RISE: 150°C
- PROVIDE MEANS FOR SECURING ALL CONDUCTORS WITHIN ENCLOSURE.
- EFFICIENCY: 97.89% MINIMUM PER DOE 2016 EFFECIENCY LEVELS (CFR TITLE 10)
- ENCLOSURE: MINIMUM NEMA 3R OR 4X TO SUIT ENVIRONMENT.
- SOUND LEVEL: PER NEMA ST-20 (2014)
- CONDUCTOR ENTRY: SIDE.
- PROVIDE ANTI-VIBRATION PADS OR ISOLATORS BETWEEN THE CORE/COIL AND ENCLOSURE.
- PROVIDE VIBRATION ISOLATORS FOR ALL TRANSFORMERS.
- K-FACTOR: 4

H. CONDUCTORS AND CABLES

1. WIRING - ALL CONDUCTORS SHALL BE EQUAL TO OR BETTER THAN MINIMUM #12 AWG

FOR POWER, #14 AWG FOR CONTROL WITH 98% CONDUCTIVITY STRANDED COPPER WITH TYPE (THWN-2) INSULATION, 600V, COLOR CODED. PROVIDE 75 DEGREE RATED CONDUCTORS FOR AMPACITES ABOVE 100 AMPS AND 60 DEGREE RATED CONDUCTORS FOR AMPACITIES OF 100 AMPS OR LESS. PROVIDE SOLID OR STRANDED FOR #10 AWG AND SMALLER, STRANDED FOR #8 AWG AND LARGER U.N.O.

2. WIRE SIZE OF BRANCH CIRCUITS SHALL BE ADJUSTED TO COMPENSATE FOR VOLTAGE DROP BASED UPON ACTUAL CONDUIT ROUTING. CONTRACTOR SHALL MAINTAIN VOLTAGE DROP AS RECOMMENDED BY NEC (NOT TO EXCEED 3%).

3. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.

4. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR #10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR #8 AWG AND LARGER.

5. ALL CONNECTIONS SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NO-OXIDE A" BY DEARBORNE CHEMICAL CO. COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED COPPER SURFACE, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS.

6. MC CABLE IS NOT PERMITTED.

7. CONDUCTOR COLOR CODES:
- GROUND WIRES: GREEN, GREEN WITH A YELLOW STRIPE, OR BARE COPPER
 - NEUTRAL WIRES: WHITE OR GRAY
 - SINGLE PHASE LIVE WIRES: BLACK (OR RED FOR A SECOND "HOT" WIRE)
 - 208 VAC, 3-PHASE: BLACK, RED AND BLUE
 - 480 VAC, 3-PHASE: BROWN, YELLOW, PURPLE

8. PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE; OR ENCORE WIRE.

9. PROVIDE CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING: AMP INCORPORATED; GENERAL SIGNAL, O-Z/GEDNEY UNIT; SQUARE D COMPANY, ANDERSON; ILSCO; OR BURNDY.

ALUMINUM CONDUCTOR REQUIREMENTS

1. ALUMINUM CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR NEWEST ALUMINUM CONDUCTOR SPECIFICATION BEING USED BY THE INDUSTRY.

2. THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.

3. ALUMINUM CONDUCTORS SHALL ONLY BE TERMINATED USING ALUMINUM RATED CONNECTIONS. CONTRACTOR SHALL VERIFY TERMINATIONS ON EACH DEVICE OR EQUIPMENT BEFORE START OF WORK FOR RATED ALUMINUM CONNECTORS.

4. THE CONTRACTOR SHALL ABIDE BY ALL ALUMINUM WIRING INSTALLATION STANDARDS AS REQUIRED BY THE NEIS (NATIONAL ELECTRICAL INSTALLATION STANDARDS) PUBLISHED BY THE NECA (NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION). THE CONTRACTOR SHALL ABIDE BY ALL STANDARDS IN THE NECA/AA-2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND WORKMANSHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOW:
A. TERMINATE WITH COMPRESSION CONNECTORS, NO RING CUTS OF THE INSULATION, CRIMP ONLY WITH A CRIMP TOOL AND THE CORRECT DIE AS REQUIRED BY THE MANUFACTURER.
B. ALL CONDUCTORS TO RECEIVE ANTI-OXIDATIVE COATING DURING INSTALLATION.
C. TERMINATING WITH SET SCREW CONNECTOR, THE SCREW SHALL BE TIGHTENED USING ONLY A TORQUE WRENCH.
D. NECA/AA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONDUCTORS TO COPPER BUS BARS. ABIDE BY ALL NECA/AA RECOMMENDATIONS.
E. DO NOT USE PIN CONNECTORS (WIRE ADAPTERS) UNLESS ABSOLUTELY NECESSARY. USE ALL / ANY OTHER OPTIONS, AND IF REQUIRED, PROVE TO ENGINEER BEFORE INSTALLING. IF USED, FOLLOW UL GUIDE FOR WIRE CONNECTORS (ZMOW), AND PROVIDE THE SPECIAL TOOLS REQUIRED BY THE MANUFACTURER. DIE-LESS CRIMPERS WILL NOT BE ACCEPTED..

I. WIRING DEVICES

1. WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES, 20A, 120/277 VOLT.

2. RECEPTACLES SHALL BE SPECIFICATION GRADE, DUPLEX TYPE, NEMA 5-20R, 20 AMPERE, 120 VOLT GROUNDED TYPE. SPECIAL APPLICATION RECEPTACLES SHALL BE INDICATED ON PLANS. MOUNT WITH THE GROUND DOWN.

3. DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES. COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED.

J. SAFETY SWITCHES

1. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY CONSTRUCTION WITH LOCKABLE HANDLES SIZED AS NOTED ON THE DRAWINGS. PROVIDE NEMA ENCLOSURE AS REQUIRED BY CODE AND AMBIENT CONDITIONS. ALL FUSIBLE SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT FUSES SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.

K. FUSES

1. FUSED SHALL BE DUAL ELEMENT, TIME DELAY CURRENT LIMITING. CONTRACTOR SHALL COORDINATE FUSE SIZES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND PER THE NEC.

2. PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED, COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED.

L. ELECTRICAL IDENTIFICATION

1. PROVIDE ENGRAVED PHENOLIC PLASTIC NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT (INCLUDED BUT NOT LIMITED TO TRANSFORMERS, DISCONNECT SWITCH,

SWITCHBOARD, PANELBOARD, CHARGING CABINET, CHARGE POST, OVER-CURRENT PROTECTION DEVICE IN MAIN SWITCHBOARD, ETC.) AND ON EQUIPMENT AS DIRECTED BY OWNER.

2. PROVIDE ALL FEEDERS AND BRANCH CIRCUIT WIRING WITH COLOR CODED (SEE CONDUCTORS AND CABLES) VINYL TAPE WRAPPED A MINIMUM OF 1.5 TIMES AROUND CIRCUMFERENCE OF JACKET/SHIELDING TO DESIGNATE PHASE.

3. COLOR CODING OF CONDUCTORS SHALL BE PER THE NEC AND OWNERS REQUIREMENTS.

4. CONTRACTOR SHALL PLACE TWO LENGTHS OF WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTIONS TAPE TO READ "CAUTION BURIED ELECTRIC".

M. SYSTEM GROUNDING AND BONDING

1. GROUNDING AND BONDING SHALL COMPLY WITH REQUIREMENTS OF NEC ARTICLE 250. ALL EXPOSED NONCURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT, METALLIC RACEWAY SYSTEMS, METALLIC CABLE ARMOR, GROUNDING CONDUCTOR OF NONMETALLIC SHEATHED CABLES, GROUNDING CONDUCTOR IN NONMETALLIC RACEWAYS, AND GROUNDED CONDUCTORS OF THE WIRING SYSTEM SHALL BE GROUNDED.

2. A GROUND BUS SEPARATE FROM THE NEUTRAL BUS SHALL BE PROVIDED IN ALL SWITCHBOARDS AND PANELBOARDS. GROUND BUS SHALL BE RETORQUED (CHECKED) PRIOR TO ENERGIZING EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.

3. GROUND BUSES AND NEUTRAL BUSES IN ALL DISTRIBUTION PANELS, SWITCHBOARDS, PANELBOARDS, AND THOSE PROVIDED IN ANY EQUIPMENT SHALL BE ISOLATED EXCEPT WHERE REQUIRED TO BE CONNECTED AS SPECIFIED ABOVE FOR THE SERVICE ENTRANCE AND IN TRANSFORMER TERMINAL COMPARTMENTS.

4. WHEN INDICATED ON THE DRAWINGS, EQUIPMENT GROUNDING CONDUCTORS SHALL BE EXTENDED FROM THE GROUND BUS IN THE DISTRIBUTION EQUIPMENT TO THE RECEPTACLE, FIXTURE OR DEVICE LUGS WHERE THEY ARE PROVIDED. WHERE LUGS ARE NOT PROVIDED, EQUIPMENT GROUNDING CONDUCTORS SHALL BE CONNECTED TO EQUIPMENT ENCLOSURES. THE CONNECTIONS SHALL BE ARRANGED SUCH THAT REMOVAL OF THE RECEPTACLE, EQUIPMENT GROUND CONDUCTORS, OR GROUND JUMPERS FROM GROUND BUSING SHALL NOT AFFECT THE GROUND SYSTEM.

5. RACEWAYS MAY NOT BE USED AS A GROUNDING CONDUCTOR FOR POWER AND LIGHTING CIRCUITS. ALL CONDUIT SHALL HAVE SEPARATE CODE SIZED GREEN GROUND WIRE INSTALLED IN THE CONDUIT TO INSURE A CONTINUOUS GROUNDING PATH.

6. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.

7. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.

8. MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, BURNDY, OR EQUAL.

N. FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS

1. CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS, AND FLOORS.

2. PROVIDE SHOP DRAWINGS OF EACH CONDITION REQUIRING PENETRATION SEALS AND THE PROPOSED UL SYSTEMS MATERIALS, ANCHORAGE, METHODS OF INSTALLATION, AND ACTUAL ADJACENT CONSTRUCTION. SUBMITTAL PACKAGE SHALL ALSO INCLUDE A COPY OF THE UL ILLUSTRATION OF EACH PROPOSED SYSTEM INDICATING MANUFACTURER APPROVED MODIFICATIONS (IF APPLICABLE) AND THE MANUFACTURER'S SPECIFICATIONS, RECOMMENDATIONS, INSTALLATION INSTRUCTIONS, AND MAINTENANCE INSTRUCTIONS.

3. FIRESTOPPING MATERIALS SHALL BE INTUMESCENT SAFETY BARRIERS DESIGNED TO BLOCK THE SPREAD OF FIRE AND SMOKE THROUGH PENETRATIONS CREATED BY ELECTRICAL INSTALLATIONS IN FIRE RATED WALLS AND FLOORS. MATERIALS SHALL BE FLAME, TOXIC FUME, AND WATER RESISTANT AND SHALL HAVE A MINIMUM 3 HOUR FIRE RATING. FIRE RATING SHALL BE DEFINED BY TESTS CONDUCTED BY ASTM, UL OR OTHER TESTING AND INSPECTION AGENCIES ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION.

4. PROVIDE MATERIALS BY THE FOLLOWING MANUFACTURERS TO SUIT THE APPLICATION: SPECIFIED TECHNOLOGIES, INC (STI), SOMERVILLE, NJ; TREMCO, INC., BEACHWOOD, OH; OR 3M INC., MINNEAPOLIS, MN.

O. SHOP DRAWINGS AND APPROVALS

1. COORDINATES, PREPARE AND SUBMIT SHOP DRAWINGS TO THE OWNER AND ENGINEER FOR THEIR REVIEW. CONTRACTOR SHALL REVIEW AND INDICATE HIS APPROVAL OF EACH SHOP DRAWING PRIOR TO SUBMITTAL FOR REVIEW. DO NOT ORDER, START WORK OR FABRICATION UNTIL SHOP DRAWINGS HAVE BEEN REVIEWED BY THE ENGINEER AND RETURNED TO THE CONTRACTOR. SHOP DRAWINGS TO BE SUBMITTED INCLUDE, BUT NOT LIMITED TO:
• SWITCHBOARDS
• PANEL BOARDS
• SAFETY SWITCHES
• TRANSFORMERS
• CONTACTORS
• LIGHTING FIXTURES
• UNDERGROUND CONDUIT COORDINATION DRAWING SHOWING ACTUAL ROUTING AND BURIAL DEPTH COORDINATED WITH ALL OTHER EXISTING AND NEW UNDERGROUND PIPING AND CONDUIT.

2. CLEARLY IDENTIFY EACH ITEM ON THE SUBMITTAL AS TO MARK, LOCATION AND USE, USING SAME IDENTIFICATION AS PROVIDED ON DESIGN DRAWINGS. ELECTRONIC SUBMITTALS SHALL BE PRESENTED WITH ALL SHEETS IN ALPHANUMERIC ORDER AND ALL SHEETS ORIENTED WITH TOP OF SHEET UP.

3. SUBMITTALS WILL BE REVIEWED ONLY FOR GENERAL COMPLIANCE WITH THE CONTRACT DOCUMENTS AND NOT FOR DIMENSIONS OR QUANTITIES. THE SUBMITTAL REVIEW SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR PURCHASE OF ANY ITEM IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS OR ITS COMPLETE AND PROPER INSTALLATION.

PROJECT SITE

WESTERN MUNICIPAL WATER DISTRICT - RIVERSIDE
16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
PROJECT ID: CRT-2022-0041

PROJECT DEVELOPER



SOUTHERN CALIFORNIA EDISON CO.
CHARGE READY PROGRAM
2244 WALNUT GROVE AVENUE
ROSEMead, CA 91770
TEL: (800) 6554555



BRYTEMOVE ENERGY
12 MORGAN
IRVINE, CA 92618
TEL: (714) 908-5266
www.brytemove.com

NOT FOR CONSTRUCTION

REVISION		
MARK	DATE	DESCRIPTION
V1	02-05-2024	C090

DRAWN BY: TP
CHECKED BY: RW
SCALE: AS SHOWN
DATE: 2/5/24

SHEET TITLE

NOTES #3

SHEET NUMBER

G-0.3

ELECTRICAL SPECIFICATIONS

P. RECORD AND AS-BUILT DRAWINGS

1. THE ELECTRICAL CONTRACTOR SHALL MAINTAIN AN APPROVED SET OF DRAWINGS AT THE JOB SITE FOR THE EXCLUSIVE PURPOSE OF MAINTAINING AN ONGOING RECORD OF HOW ALL WORK IS INSTALLED AND TO SHOW ANY DEVIATIONS FROM THE WORK AS INDICATED ON THE DRAWINGS.

2. THE ELECTRICAL CONTRACTOR SHALL SUBMIT ONE (1) COMPLETE SET OF RECORD DOCUMENTS TO THE CONSTRUCTION MANAGER FOR THE OWNER'S RECORDS. CONTRACTOR SHALL SUBMIT THESE "AS-BUILT" SET OF PLANS TO WITHIN 7 DAYS OF COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL PAYMENT.

Q. GUARANTEE

1. GUARANTEE ALL MATERIAL FURNISHED AND ALL WORKMANSHIP PERFORMED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE OF WORK. ANY DEFECTS DEVELOPING WITHIN THIS PERIOD, TRACEABLE TO MATERIAL FURNISHED AS A PART OF THIS SECTION OR WORKMANSHIP PERFORMED HEREUNDER, SHALL BE MADE GOOD AT NO EXPENSE TO THE OWNER.

PROJECT SITE

WESTERN MUNICIPAL WATER
DISTRICT - RIVERSIDE
16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
PROJECT ID: CRT-2022-0041

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DATE: 2/5/24

SHEET TITLE

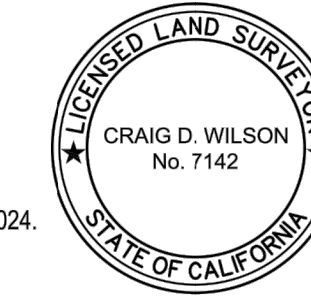
NOTES #4

SHEET NUMBER

G-0.4

SURVEYOR'S CERTIFICATION:

THIS TOPOGRAPHIC MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY COMPLETED ON JANUARY 05, 2024.



DATED: JANUARY 08, 2024.

CRAIG WILSON LS 7142
EXPIRES: 12/31/24
CONAWAY GEOMATICS

SURVEY NOTES:

- THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM UTILITY MARK OUTS PROVIDED BY AIRX UTILITY SURVEYORS ON JANUARY 04, 2024. THE CERTIFYING SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE CERTIFYING SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE CERTIFYING SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- ELEVATIONS SHOWN HEREON WERE DERIVED FROM GPS OBSERVATIONS WITH A RELATIVE ACCURACY OF ±0.01'.

BASIS OF BEARINGS:

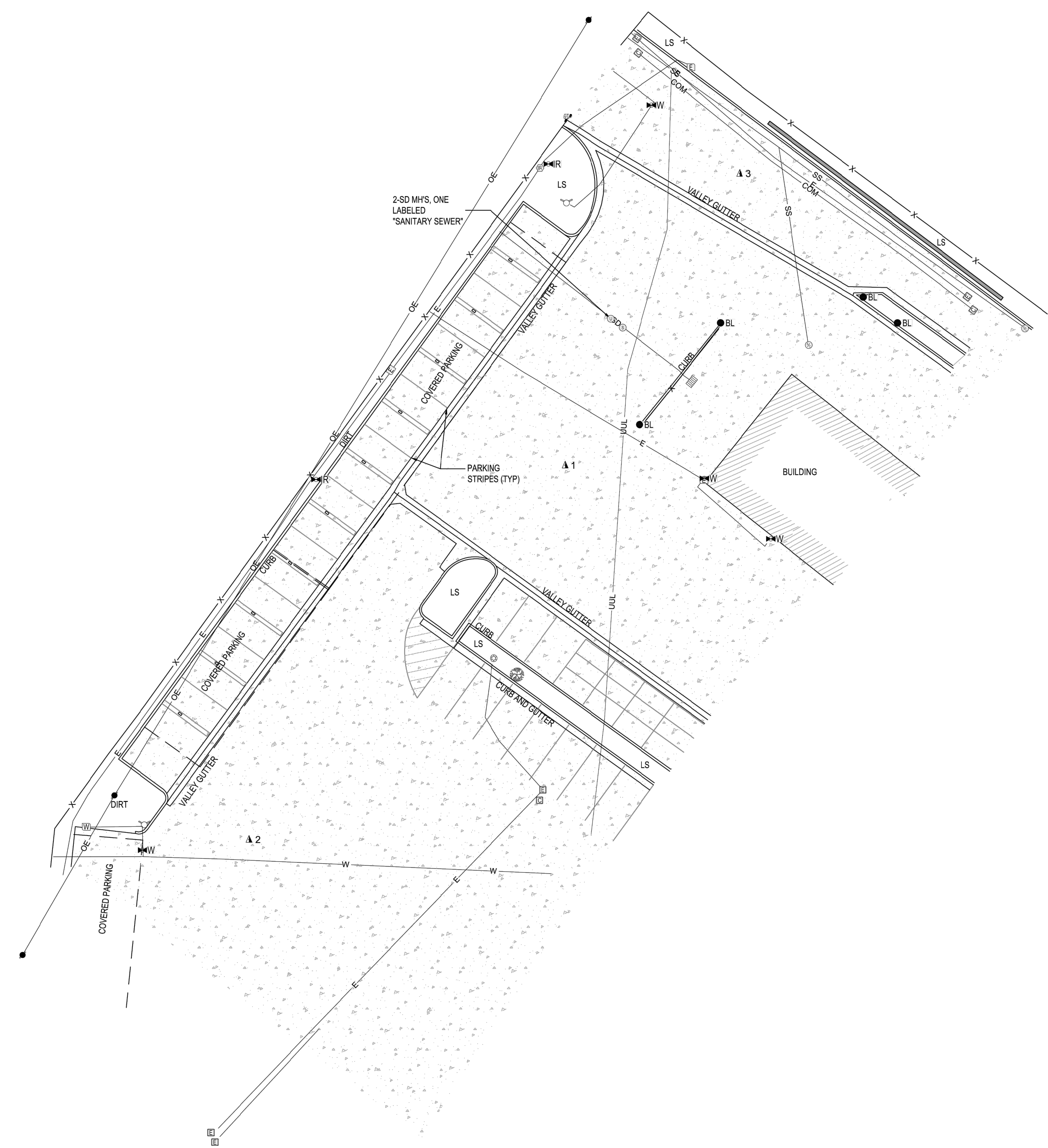
THE BASIS OF BEARINGS FOR THIS MAP IS THE INTERNATIONAL TERRESTRIAL REFERENCE FRAME 2014 (ITRF2014), DERIVED FROM THE TRIMBLE RTX (REAL TIME EXTENDED) SOLUTION, ADJUSTED TO THE 2024.01 EPOCH, NAD 83, ZONE 6. COORDINATES SHOWN HEREON ARE GRID VALUES. USE THE FOLLOWING LOCAL SITE VALUES TO OBTAIN GROUND VALUES:

LOCAL SITE - LAT: 33°50'21.253049"N LON: 117°22'19.425909"W
E HGT: 1369.80 FT
GSF: 1.0000726082

ELEVATIONS SHOWN HEREON ARE EXPRESSED IN US SURVEY FEET, BASED ON THE NORTH AMERICAN VERTICAL DATUM 1988 (NAVD88), AND ARE DERIVED FROM GPS OBSERVATIONS PER THE ADJUSTMENT SHOWN ABOVE.

CONTROL TABLE (U.S. SURVEY FEET):

PT#	NORTHING	EASTING	ELEV.	DESC.
1	2250833.96	6220940.11	1477.8	SET SCRIBED X
2	2250725.90	6220848.89	1481.7	SET SCRIBED X
3	2250918.15	6220990.48	1476.9	SET SCRIBED X



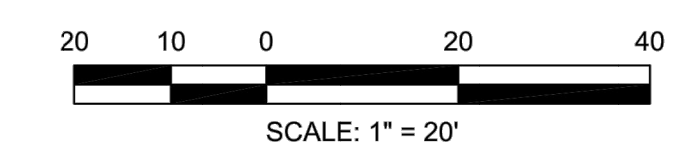
SYMBOL LEGEND

- | SYMBOL | DESCRIPTION |
|--------|-----------------------------|
| ● BL | BOLLARD |
| ▲ | CONTROL HORIZONTAL-VERTICAL |
| ⊠ | COMMUNICATION VAULT |
| ⊙ | DECIDUOUS TREE |
| ⊞ | DROP INLET |
| ⊕ | ELECTRIC LIGHT POLE |
| ⊗ | ELECTRIC POWER POLE |
| ⊞ | ELECTRIC RISER |
| ⊞ | ELECTRIC VAULT |
| ⊞ | FIRE HYDRANT |
| ⊞ | GATE |
| ⊞ | IRRIGATION CONTROLLER |
| ⊞ | IRRIGATION VALVE |
| ⊞ | SEWER CLEANOUT |
| ⊞ | SEWER MANHOLE |
| ⊞ | UNKNOWN MANHOLE |
| ⊞ | WATER RISER |
| ⊞ | WATER VALVE |
| ⊞ | BUILDING HATCH |
| ⊞ | CONCRETE AREA |
| ⊞ | COLUMN |

LINE LEGEND

- | LINE | DESCRIPTION |
|--------|----------------------|
| — W — | WATER |
| — E — | ELECTRIC UNDERGROUND |
| — X — | FENCE |
| — SD — | STORM DRAIN |
| — OE — | OVERHEAD LINE |
| — | WALL |

ABBREVIATIONS:
LS LANDSCAPING



6	---	---	---
5	---	---	---
4	---	---	---
3	---	---	---
2	---	---	---
1	---	---	---
NO.	DESCRIPTION	DATE	BY
REVISIONS			

CONAWAY Inc.
GEOMATICS

A Disabled Veteran Business Enterprise

CONAWAYGEO.COM
PH: (714) 486-0298

EL SOBRANTE RD		
PROJECT NO: 23.214BME	BRYTEMOVE ENERGY	SCALE: 1" = 20'
DRAWN BY: DE	TOPOGRAPHY SURVEY	DATE: 01/08/2024
CHECKED BY: CW	16451 EL SOBRANTE RD	SHT NO.: 1 OF 1
RIVERSIDE, CA		

WESTERN MUNICIPAL WATER DISTRICT - RIVERSIDE
16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
PROJECT ID: CRT-2022-0041

PROJECT DEVELOPER



SOUTHERN CALIFORNIA EDISON CO.
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2244 WALNUT GROVE AVENUE
ROSEMead, CA 91770
TEL: (800) 6554555

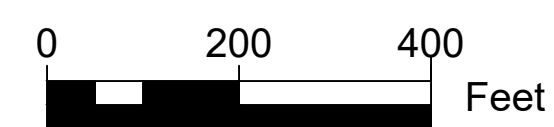


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1 PLOT PLAN



REVISION		
MARK	DATE	DESCRIPTION
V1	02-05-2024	CD99

DRAWN BY: TP
CHECKED BY: RW
SCALE: AS SHOWN
DATE: 2/5/24

SHEET TITLE

PLOT PLAN

SHEET NUMBER

E-1

WESTERN MUNICIPAL WATER DISTRICT - RIVERSIDE
 16451 EL SOBRANTE RD
 RIVERSIDE, CA 92503
 PROJECT ID: CRT-2022-0041
 PROJECT DEVELOPER



SOUTHERN CALIFORNIA EDISON CO.
 CHARGE READY PROGRAM
 2244 WALNUT GROVE AVENUE
 ROSEMEAD, CA 91770
 TEL: (800) 6554555




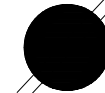



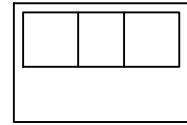

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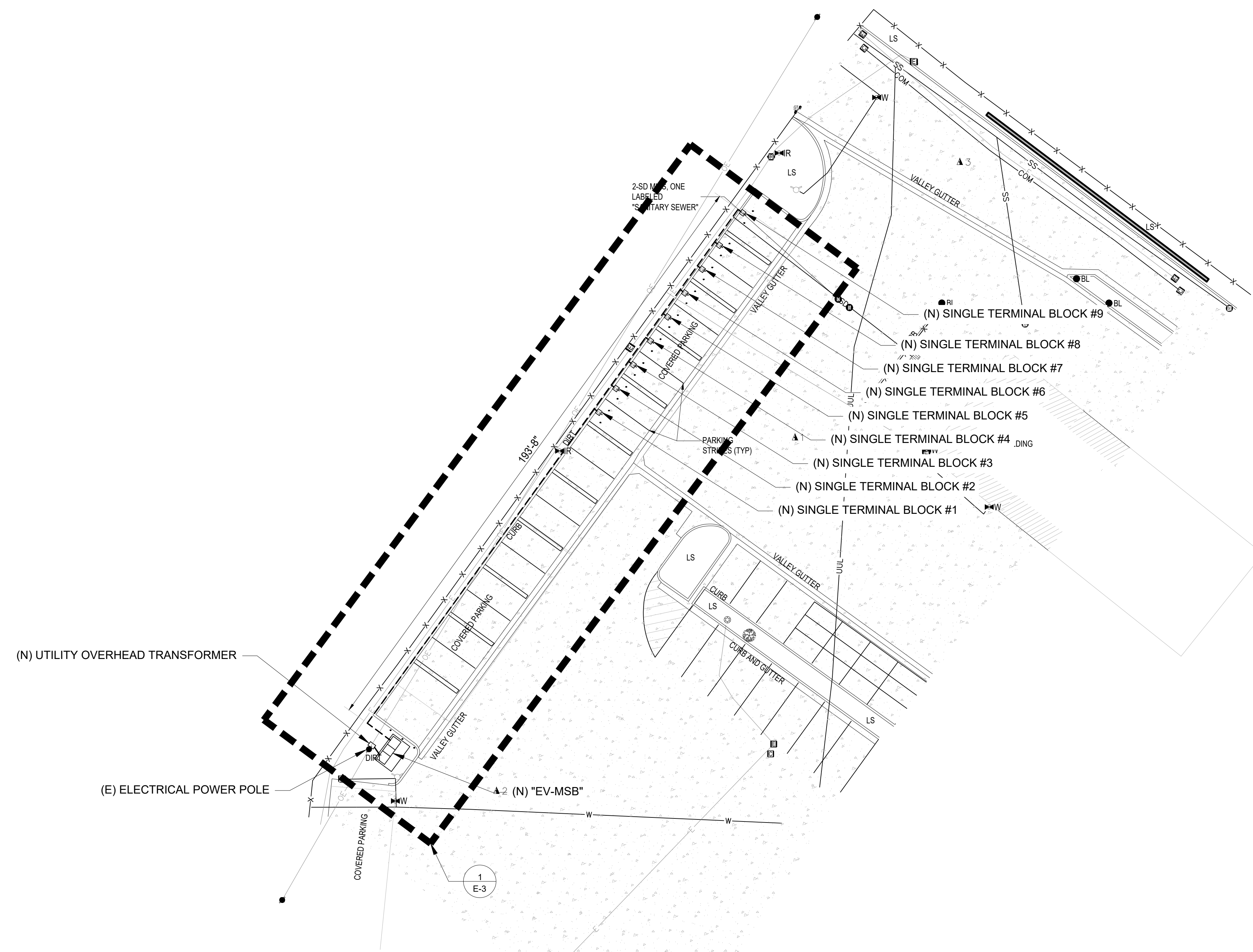
NOT FOR CONSTRUCTION

NOTES:

1. UTILITY DISTRIBUTION INFRASTRUCTURE TO BE BUILT BY OTHERS AND SHOWN ONLY FOR PROJECT CLARITY AND COORDINATION.
2. IMPACTED EXISTING PARKING = 9 TOTAL SPACES.
3. PROPOSED CHARGING = 9 TOTAL.
4. EVSE LAYOUT BASED ON USE OF SINGLE AND DUAL PORT.
5. ALL PARKING SPACES ARE EXISTING. FIELD TO VERIFY EXACT DIMENSION PRIOR TO CONSTRUCTION.
6. FIELD VERIFY ALL EQUIPMENT LOCATION TO MAKE SURE APPROPRIATE SPACE IS AVAILABLE.
7. FIELD VERIFY ALL EXISTING UTILITY LOCATIONS FOR EASEMENT REQUIREMENT.

LEGEND:

-  (N) SINGLE PORT TERMINAL BLOCK
-  (E) ELECTRICAL POWER POLE
-  (N) UTILITY OVERHEAD TRANSFORMER
-  (N) ELECTRICAL CONDUIT
-  SCE ELECTRICAL SERVICE SUPPLY TO METER, BY T&D
-  (N) "EV-MSB"
-  (N) BOLLARD



① SITE PLAN

REVISION		
MARK	DATE	DESCRIPTION
V1	02-05-2024	CD99

DRAWN BY: TP
 CHECKED BY: RW
 SCALE: AS SHOWN
 DATE: 2/5/24

SHEET TITLE
 SITE PLAN
 SHEET NUMBER
 E-1.1

WESTERN MUNICIPAL WATER DISTRICT - RIVERSIDE
16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
PROJECT ID: CRT-2022-0041

PROJECT DEVELOPER



SOUTHERN CALIFORNIA EDISON CO.
CHARGE READY PROGRAM
2244 WALNUT GROVE AVENUE
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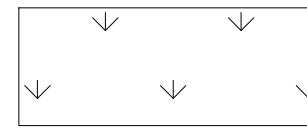


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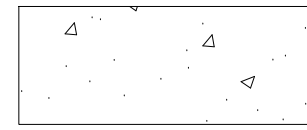
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DEMOLITION KEYNOTES AND LEGEND

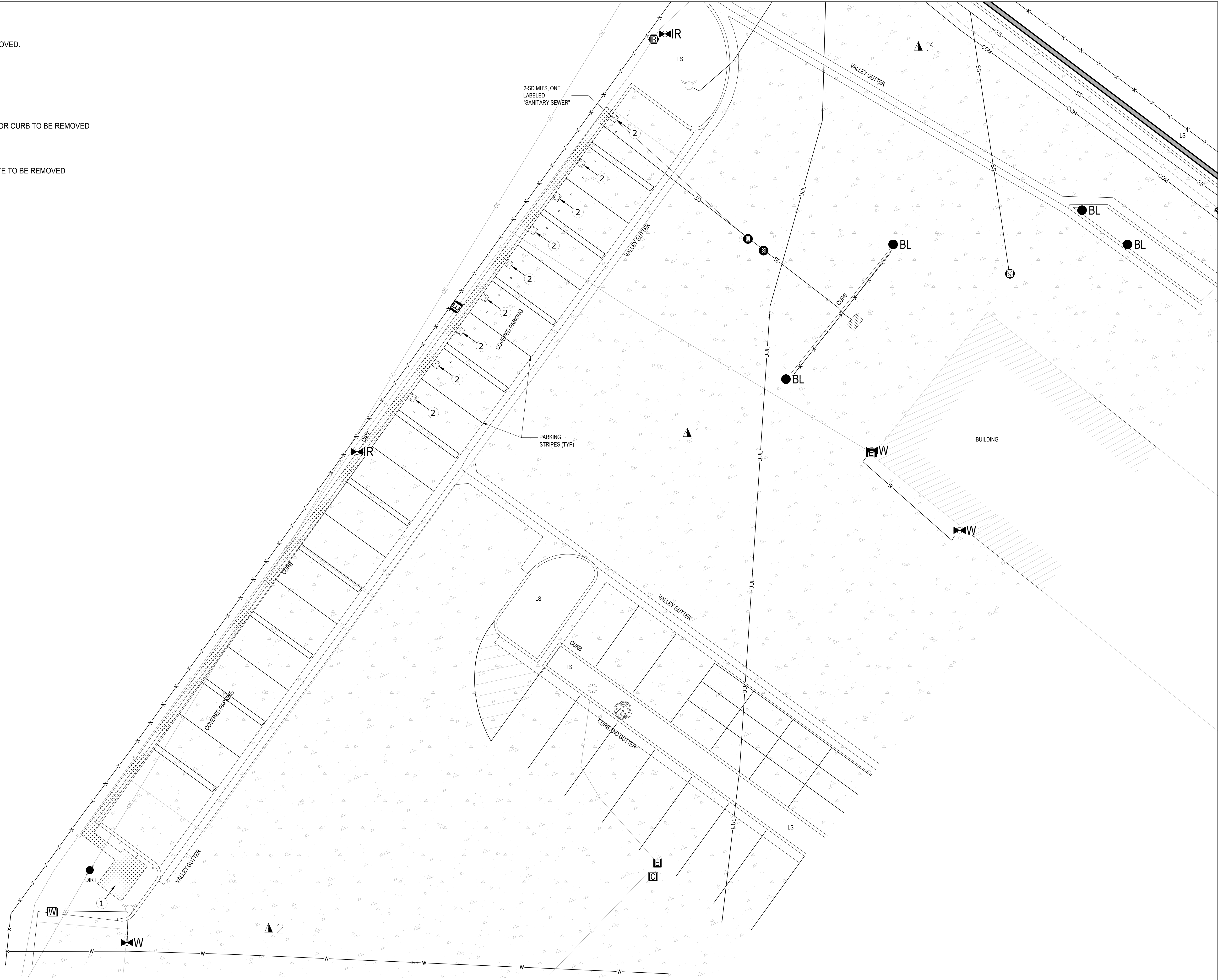
- 1. EXISTING LANDSCAPE AND/OR CURB TO BE REMOVED.
- 2. EXISTING STREET CONCRETE TO BE REMOVED.



EXISTING LANDSCAPE AND/OR CURB TO BE REMOVED



EXISTING STREET CONCRETE TO BE REMOVED



1 DEMOLITION PLAN
SCALE: 1" = 10'



REVISION		
MARK	DATE	DESCRIPTION
V1	02-05-2024	CD99

DRAWN BY: TP
CHECKED BY: RW
SCALE: AS SHOWN
DATE: 2/5/24

SHEET TITLE

DEMOLITION PLAN

SHEET NUMBER

E-2

WESTERN MUNICIPAL WATER
DISTRICT - RIVERSIDE
16451 EL SOBRANTE RD
RIVERSIDE, CA 92503
PROJECT ID: CRT-2022-0041
PROJECT DEVELOPER



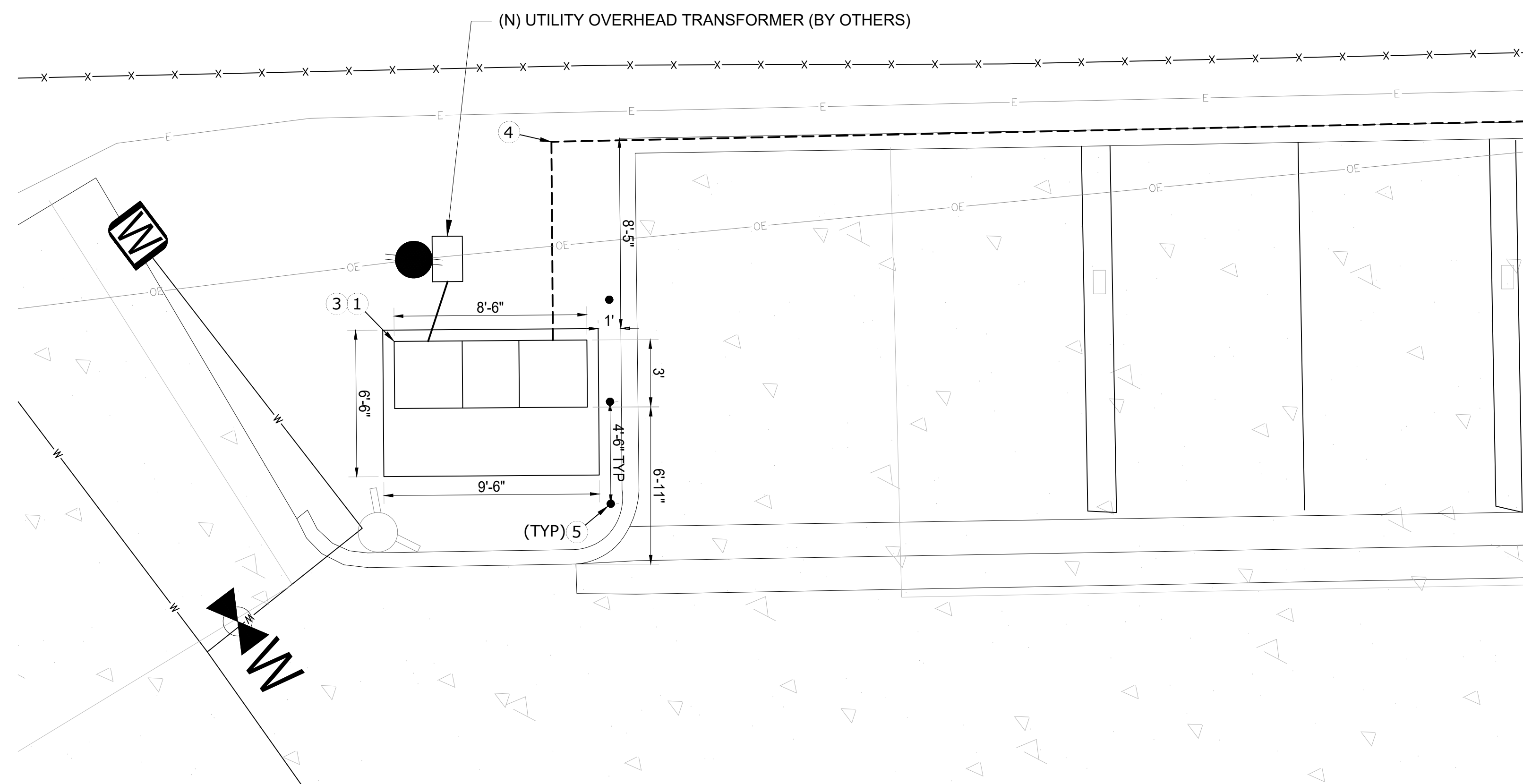
SOUTHERN CALIFORNIA EDISON CO.
CHARGE READY PROGRAM
2244 WALNUT GROVE AVENUE
ROSEMEAD, CA 91770
TEL: (800) 6554555



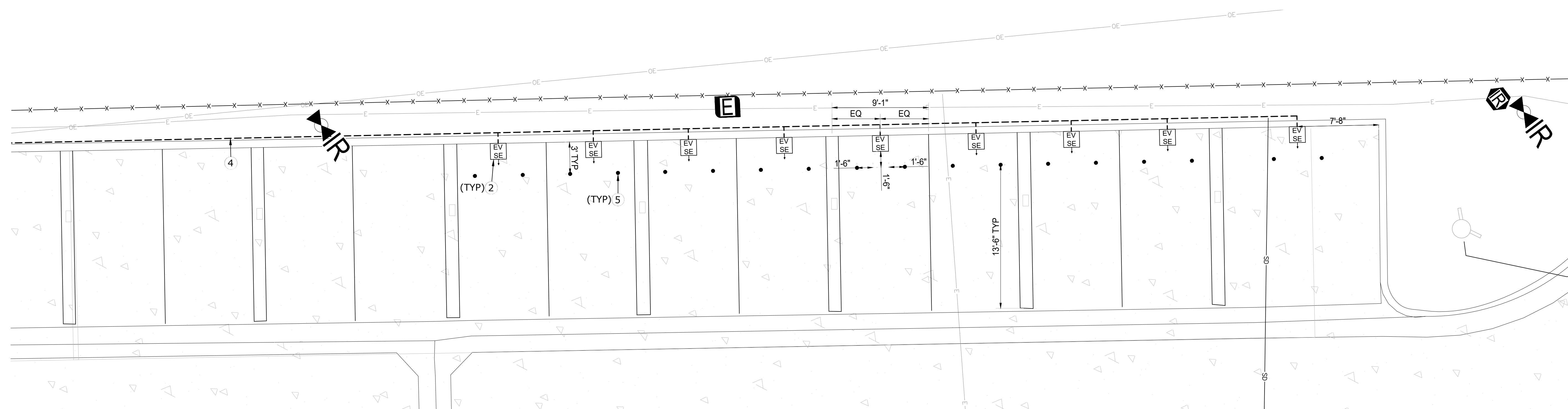
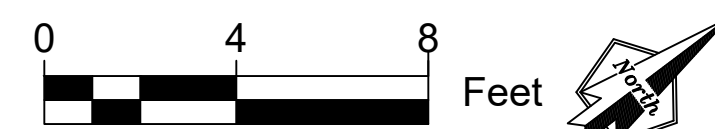
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CUSTOMER INFRASTRUCTURE IMPROVEMENT (#)	
①	(N) INSTALL "EV-MSB"
②	(N) INSTALL TEMPORARY TERMINAL BLOCK FOR FUTURE SINGLE PORT CHARGER
③	INSTALL (N) (2) 5/8" x 8' CU GROUND RODS
④	24" WIDE TRENCH
⑤	INSTALL (N) BOLLARD



① LAYOUT DETAIL #1
SCALE: 1" = 4'



② LAYOUT DETAIL #2
SCALE: 1" = 5'



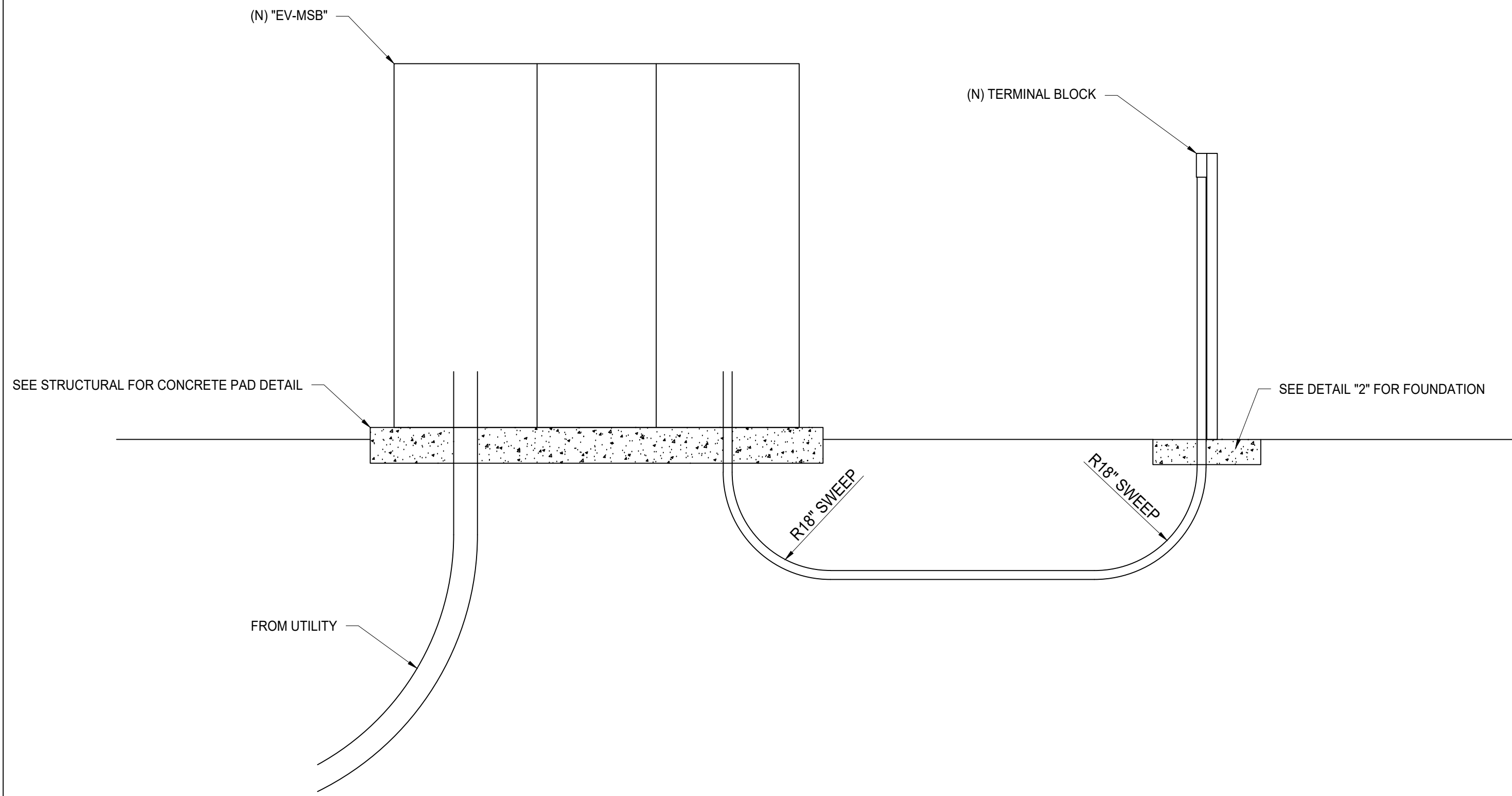
REVISION		
MARK	DATE	DESCRIPTION
V1	02-05-2024	CD99

DRAWN BY: TP
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SHEET TITLE

LAYOUT DETAIL

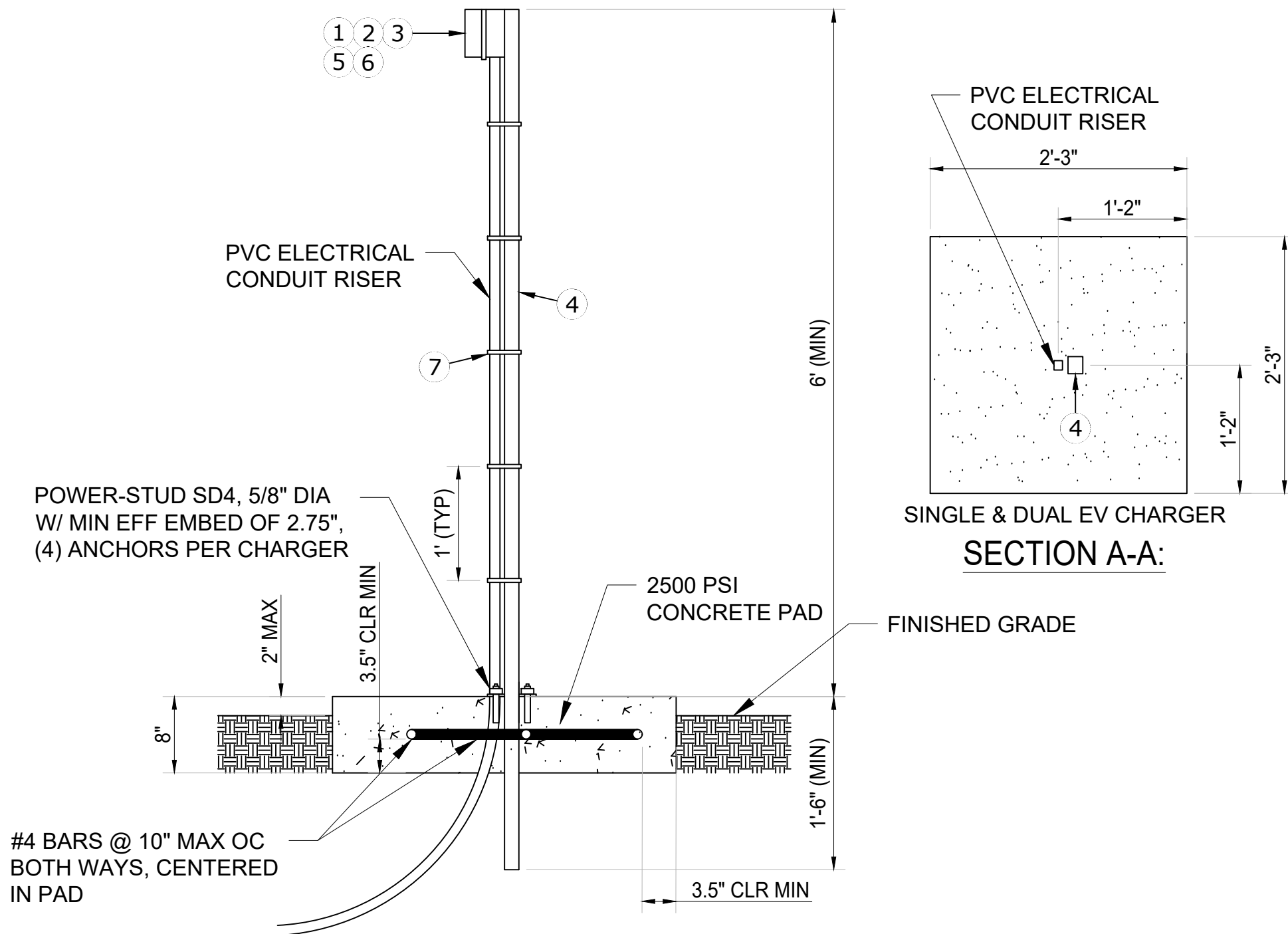
SHEET NUMBER



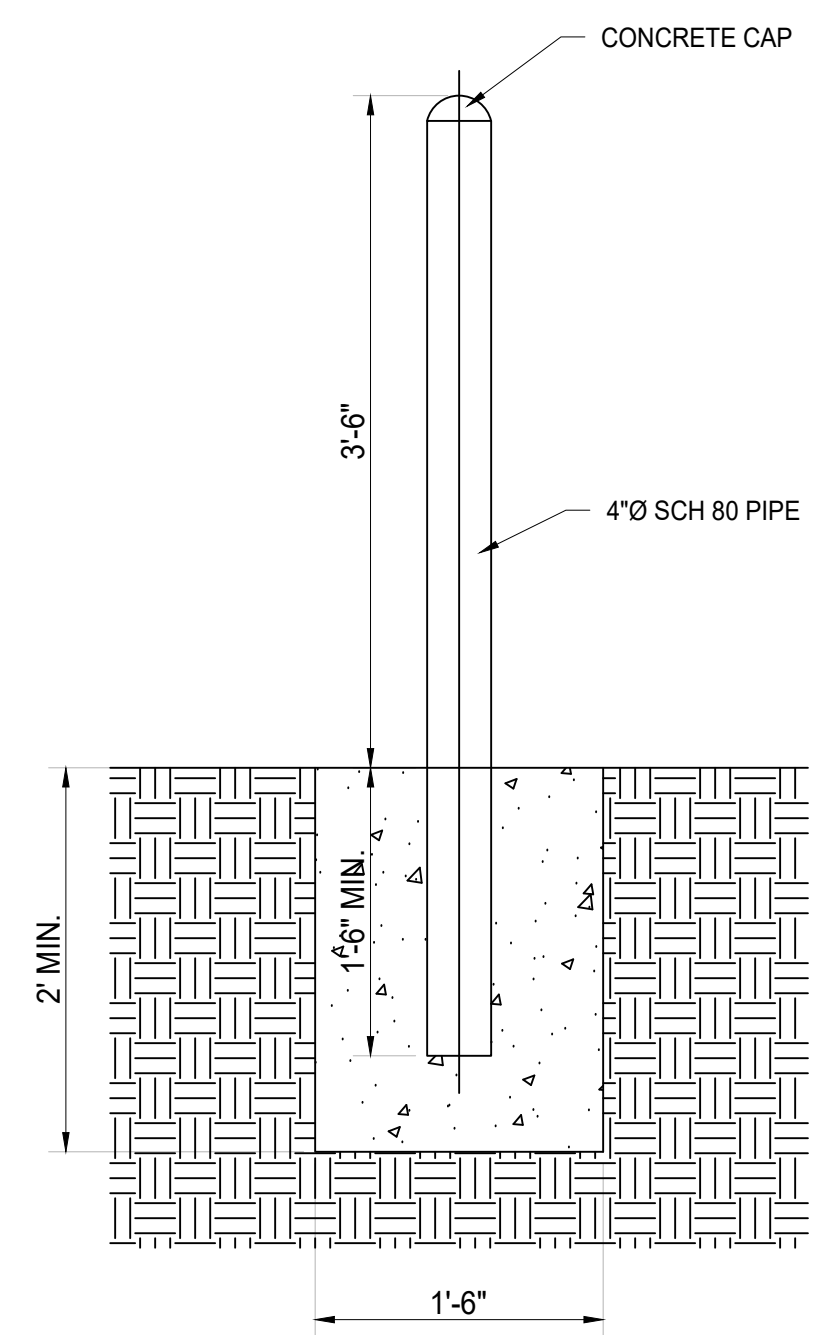
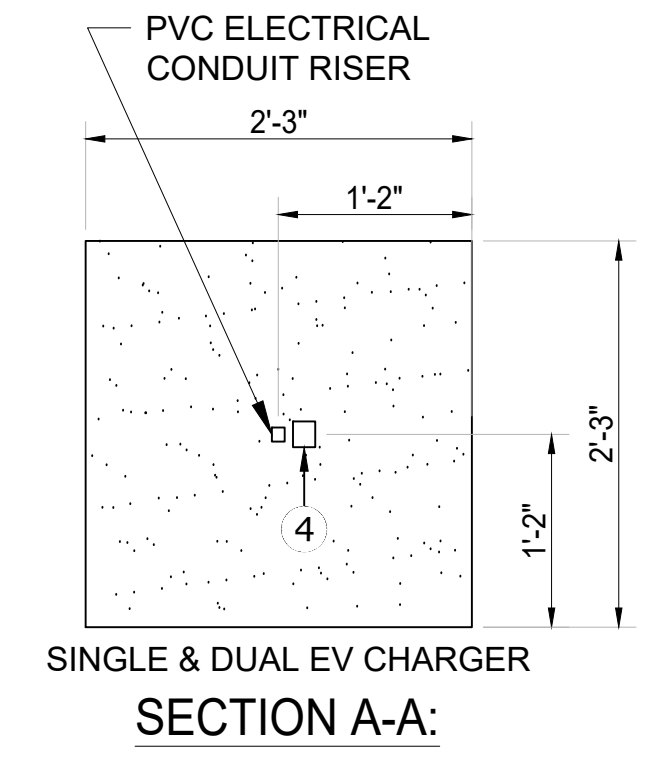
① EQUIPMENT ELEVATION
SCALE: NTS

BILL OF MATERIALS (1 UNIT)		
REFERENCE NUMBER	ITEM	QUANTITY
1	VYNKIER VM554 ENCLOSURE	1 EA
2	VYNKIER BACKING FLATE VMBP55A	1 EA
3	TERMINAL BLOCK BUSSMANN 1400A-6, 90A, #4-14 AWG CU.600 VAC	1 EA
4	EATON B-LINE B22SH120 HDC, 120A 10' LENGTHS	1 EA
5	B-LINE 1/4 X 1.25" 20 HHCS ZINC	2 EA
6	B-LINE SPRING NUT, N224, 1/4 - 20	2 EA
7	UV STABILIZED NYLON CABLE TIES (1/4" WIDTH)	5 EA

- NOTES:
1. TERMINAL BLOCK AND TEMPORARY SUPPORT WILL BE REMOVED ONCE CHARGERS ARE INSTALLED.
 2. SECURELY FASTEN PVC CONDUIT TO CONDUIT SUPPORT WITH 1/884" WIDE UV STABILIZED NYLON CABLE TIES. PROVIDE 1 TIE EVERY 12".
 3. PARTS INCLUDED IN THE BILL OF MATERIALS ARE FOR 1 TEMPORARY TERMINAL BLOCK ONLY. SEE ELECTRICAL CONDUIT PLAN FOR LOCATION AND COUNT.



② TERMINAL BLOCK DETAIL
SCALE: NTS



③ BOLLARD DETAIL
SCALE: NTS

WESTERN MUNICIPAL WATER
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SHEET TITLE

DETAILS

SHEET NUMBER

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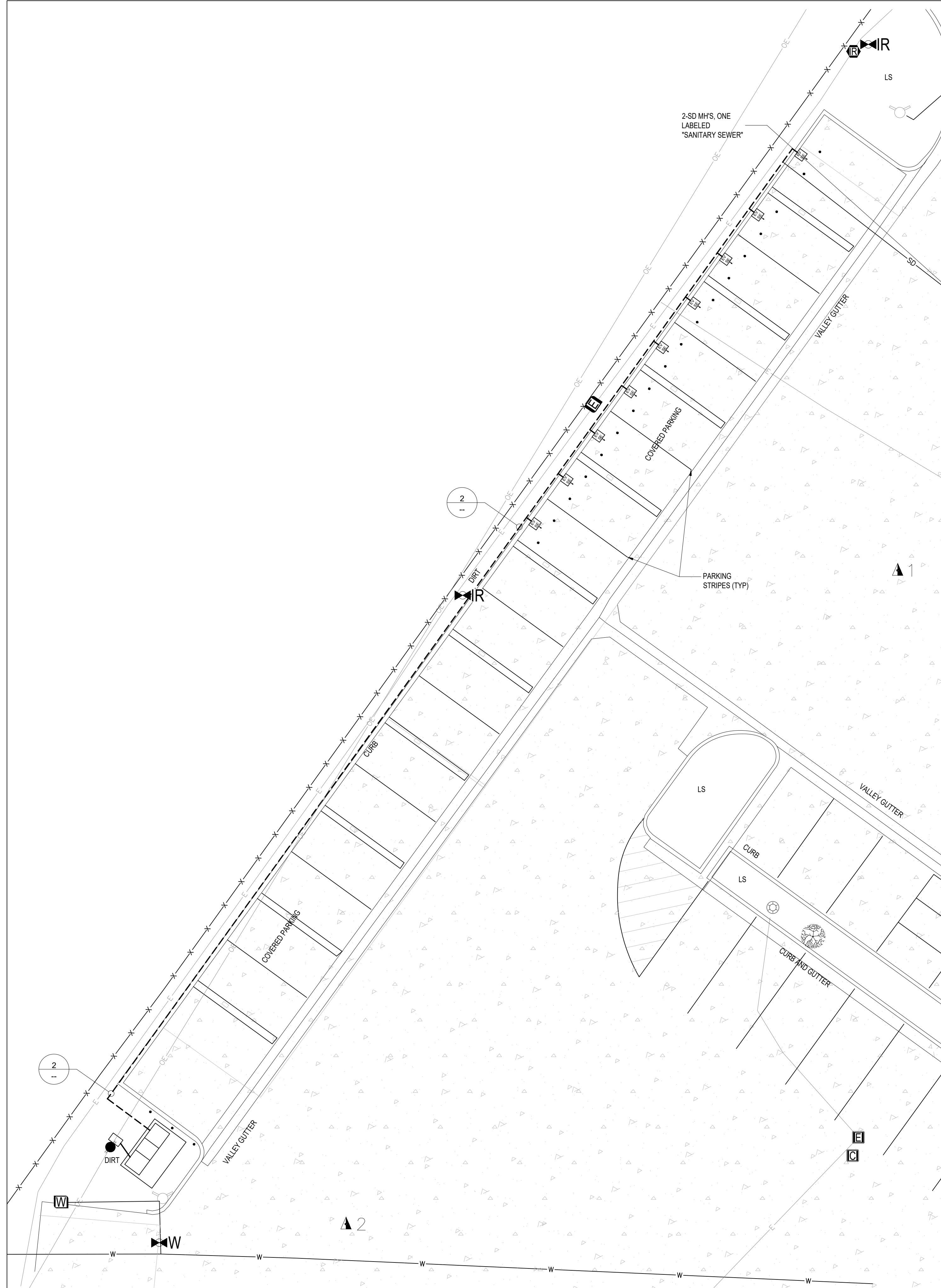
DRAWN BY: TP
CHECKED BY: RW
SCALE: AS SHOWN
DATE: 2/5/24

SHEET TITLE

TRENCH RUN & DETAIL

SHEET NUMBER

E-5.1

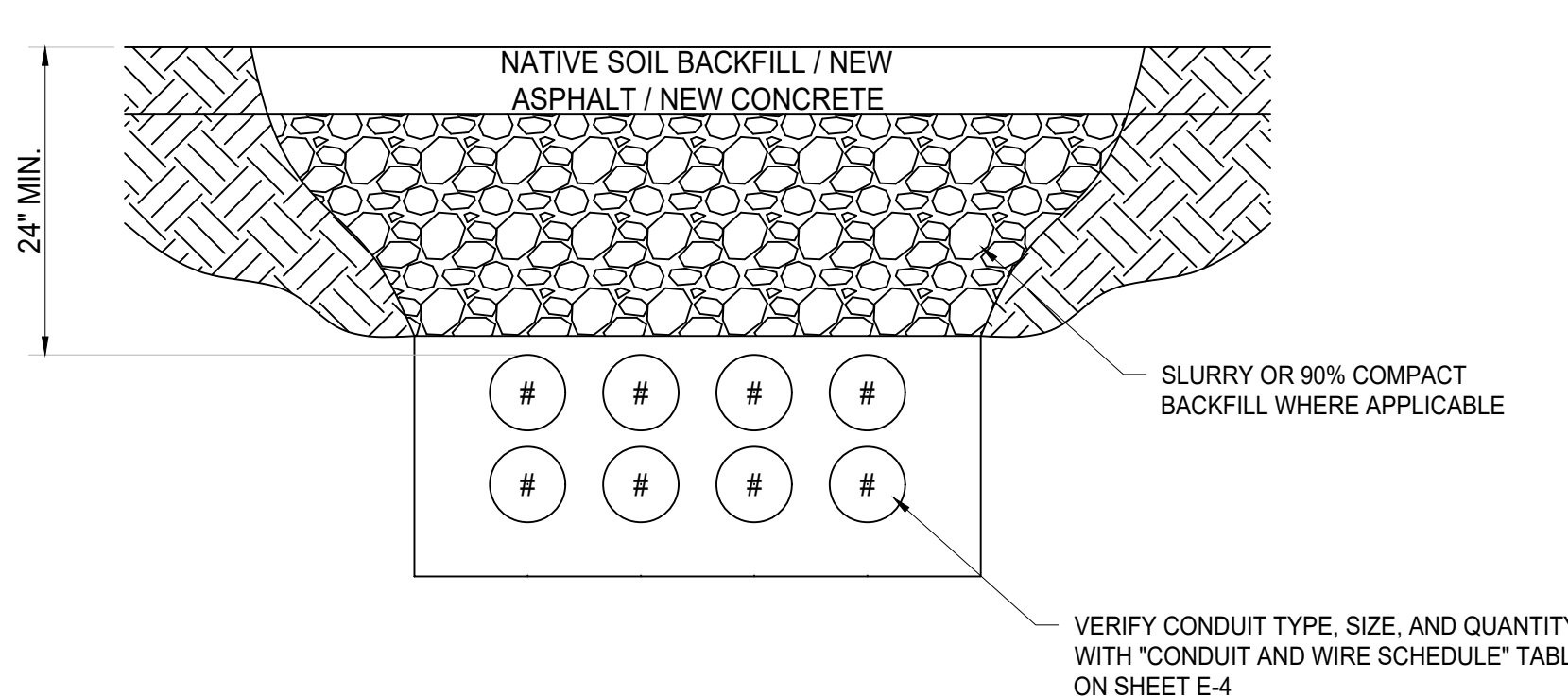


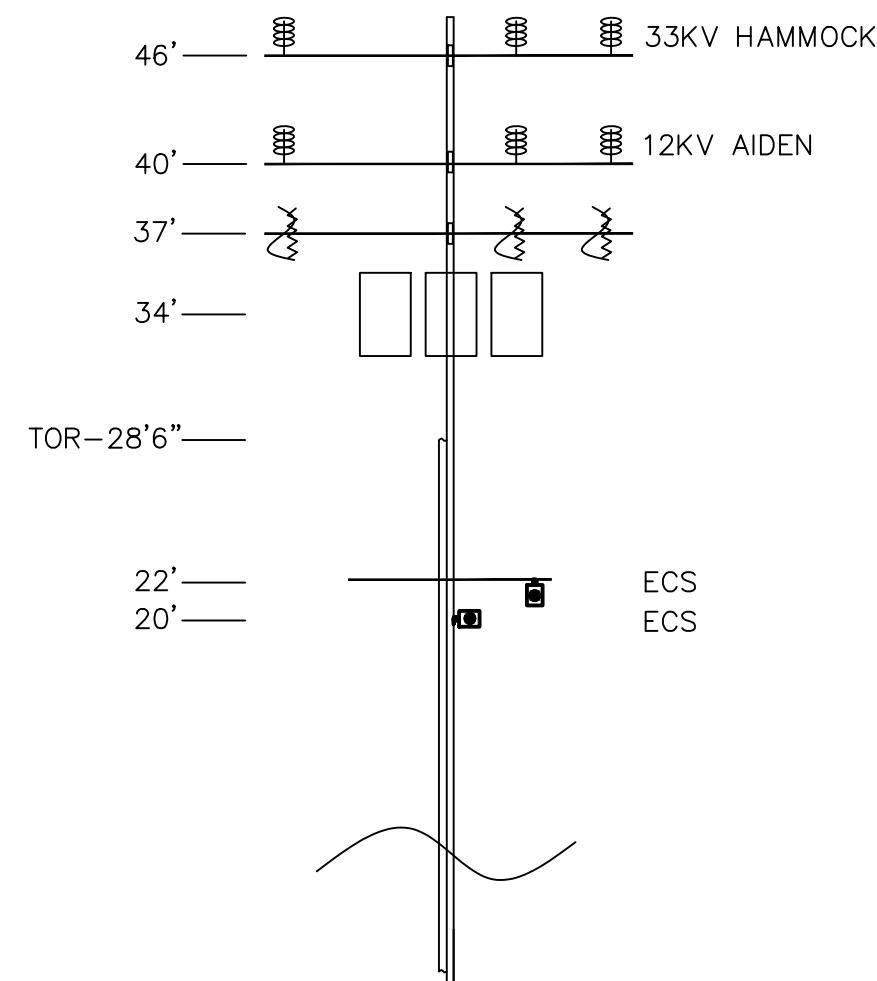
① TRENCH RUN
SCALE: 1" = 10'



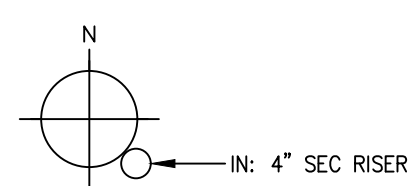
② TRENCH DETAIL
SCALE: NTS

NOTE:
- DETECTABLE WARNING TAPE TO BE INSTALL THROUGHOUT THE LENGTH OF TRENCH.





PROPOSED
POLE #1930862E
L/SW



RUN: 18'
RISER: 28'6"
TOTAL: 46'6"

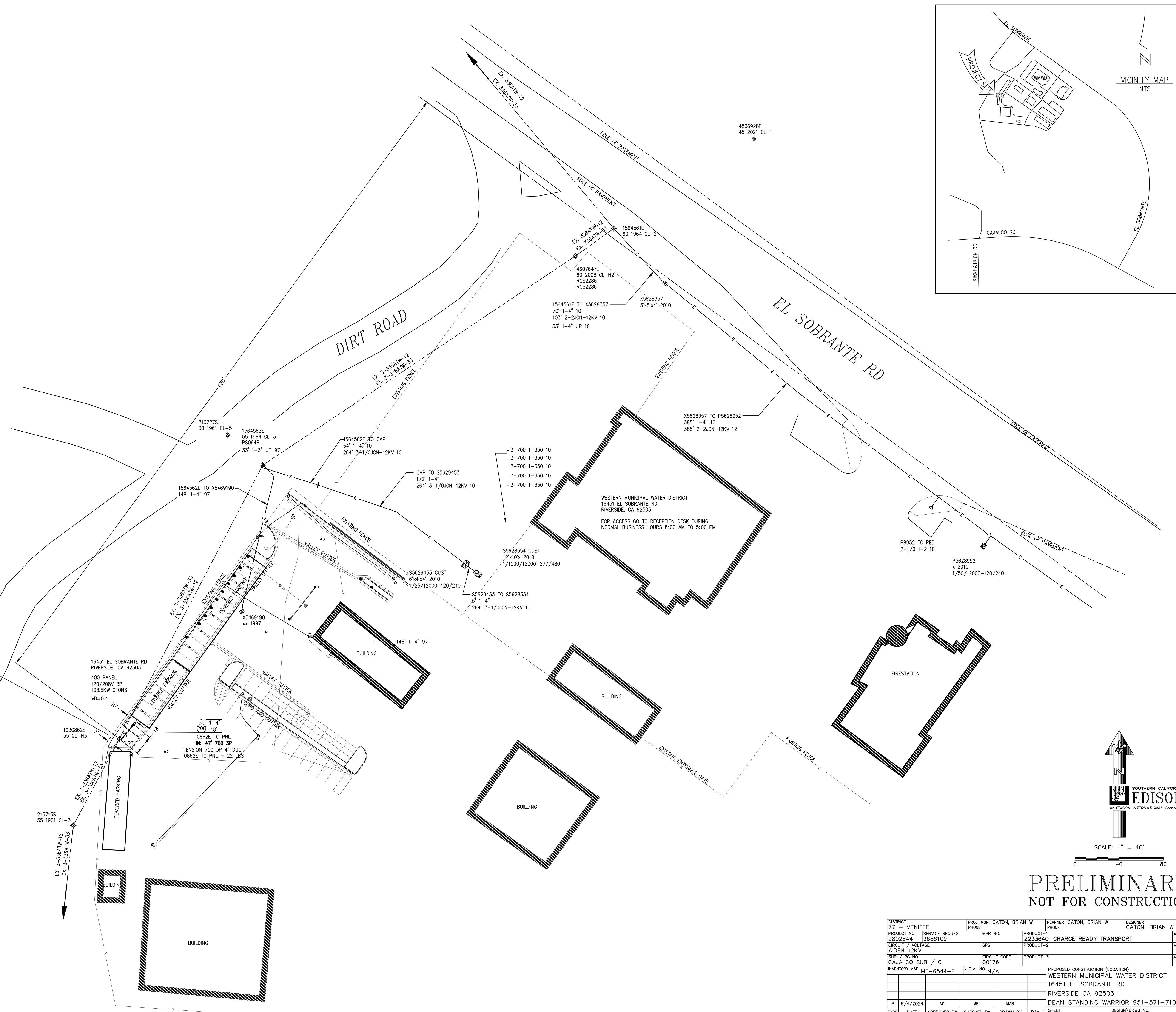
T.L.M. DATA: 1930862E				
SIZE	KVA	CUST	%	LOAD
EXIST.	-	-	-	-
PROP.	112.5	121.8	1	108.3%
VOLTAGE DROP: 0.4				
FLICKER FACTOR: N/A				
PRI. CIRCUIT: AIDAN 12KV				

027: 03/22/24

- TD2233640
EX: 1930862E
- ELEVATED
POLE
CLASS H3
- 55'
IN: 1 - SEC RACK 4-WIRE
IN: 1 - TM 3-700 & 1-350 600V 3P UG TO OH
IN: 1 - XA SNGL DE HD COMP 8" W/BKT (ATT @ 37'-FUSE ARM)
IN: 1 - TR OH 3-37KVA 12KV 120/240CD 120/208Y
SN: _____
SN: _____
- IN: 3 - FE CO MNT FOR ELF 100A 12KV 1-EA
IN: 3 - FE FUSE ELF 15KV 12A
IN: 1 - SA HFA POLY W/GND & T-GAP NO PRI-N 12KV
IN: 1 - CR OH #6 SOL WP SECONDARY W/ROD
IN: 1 - RSR 4" EXTENSION
Ct: 18" - CM DUCT 2 1/2" TO 4"
Ct: 19" - CM DUCT FOR EXCAVATION
IN: 47' - CBL (3) 700, (1) 350 600V CLP PLEX
M: 18" - CBL (3) 700, (1) 350 600V CLP PLEX
IN: 1 - MTR X-RANGE CT BAR TO 600/5 120/208 3P 4W

- PROJECT NOTES:
- POLE 1930862E REPLACED ON SEPARATE TD.
 - CHARGE READY PROGRAM
 - CUSTOMER INSTALLING 9 LVI EV CHARGERS @ 11.5 KW
 - IN 4" RISER ON UNISTRUT
 - IN 1 RUN 3-700 PLEX FROM POLE TO 400A PANEL
 - IN 400A 3P 120/208 METER
 - FOR ACCESS GO TO RECEPTION DESK DURING NORMAL BUSINESS HOURS 8:00 AM TO 5:00 PM

1



SCALE: 1" = 40'
0 40 80

PRELIMINARY
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DISTRICT 77 - MENIFEE	PROJ. MGR. CATON, BRIAN W	PLANNER CATON, BRIAN W	DESIGNER CATON, BRIAN W
PROJECT NO. 2802844	SERVICE REQUEST 3686109	MSR NO. 2233640-CHARGE READY TRANSPORT	ASSOC DESIGN
CIRCUIT / VOLTAGE AIDEN 12KV	GPS	PRODUCT-2	ASSOC DESIGN
SUB / PG NO. CAJALCO SUB / C1	CIRCUIT CODE 00176	PRODUCT-3	ASSOC DESIGN
INVENTORY MAP MT-6544-F	J.P.A. NO. N/A	PROPOSED CONSTRUCTION (LOCATION) WESTERN MUNICIPAL WATER DISTRICT 16451 EL SOBRANTE RD RIVERSIDE CA 92503	
P 6/4/2024	AD	MB	MAB
DATE	APPROVED BY	CHECKED BY	DRAWN BY
Southern California Edison Company			DESIGN/DRWG NO. 1707445_0.01

FILE NAME: 1707445_001.DWG DATE: 6/4/2024 9:09 PM DRAWN BY: BUBANNA