1 2	WENDY Y. WANG, Bar No. 228923 wendy.wang@bbklaw.com ANYA KWAN, Bar No. 333854		
3	anya.kwan@bbklaw.com BEST BEST & KRIEGER LLP		
4	300 South Grand Avenue 25th Floor Los Angeles California 00071		
5	Los Angeles, California 90071 Telephone: (213) 617-8100 Facsimile: (213) 617-7480		
6	, ,		
7	Attorneys for Respondent WESTERN MUNICIPAL WATER DISTRICE	Γ	
8	BEFORE THE HEA	RING BOARD	OF THE
9	SOUTH COAST AIR QUAL		
10			
11	In the Matter of	Case No. 624	40-1
12	SOUTH COAST AIR QUALITY	DECK ADA	
13	MANAGEMENT DISTRICT,	SUPPORT (FION OF CHRIS FIKE IN OF STIPULATION RE
14	Petitioner,	District Rule	CALENDAR
15	v. WESTERN MUNICIPAL WATER		
16 17	DISTRICT [Facility ID No. 163418],	Date: Time: Dept:	September 12, 2024 9:30 a.m. Hearing Board South Coast Air
18	Respondent.	Дері.	Quality Management District 21865 Copley Drive
19			Diamond Bar, CA 91765
20			
21			
22			
23			
24			
25			
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27			
28			
	01376.00336\41604314.5 DECLARATION OF CHRIS FIKE IN SUPPOR	- 1 - RT OF STIPULATION	ON RE CONSENT CALENDAR

DECLARATION OF CHRIS FIKE

I, Chris Fike, declare:

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- 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.

#790

Chris Fike

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Exhibit 1



Western Municipal Water District
14205 Meridian Parkway

14205 Meridian Parkway Riverside, CA 92518

District Business | 951.571.7100 Customer Service | 951.571.7104

Craig D. Miller
General Manager

Mike Gardner

Gracie Torres

Brenda Dennstedt

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

Umit IID	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 Du ty	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 Follow us on Facebook | Instagram | YouTube | TikTok | Twitter





Securing Your Water Supply

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

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

Vendor Contact: YANG ZHANG OR ELENA CHERISTOAKIS

Phone: 909 987-0815 Fax:

Email: ap@phoenixmotocars.com

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

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

Ship To: Freight Terms: FOB Destination
Western Municipal Water Dist.
16451 El Sobrante Rd Payment Terms: NET 30

Riverside CA 92503-7607

Buyer: Chris Fike

CHBRIISTOAKIS

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

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., 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, 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 Insurance 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 f
- 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.

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

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

built into pricing.

Bill To:

Ship To:

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

Western Municipal Water Dist.

16451 El Sobrante Rd

Riverside CA 92503-7607

El Sobrante Warehouse Delivery Hours: 8:00am - 12:00pm 1:00pm - 3:30 pm Freight Terms: FOB Destination

> Payment Terms: NET 30 Buyer: Dean Standing Warrior

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 consumptionACCHARGE1 X12	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.

Per proposal #fergir00c_06272206_00_01_M00. Freight charge

SUBTOTAL 47,965.93 **SALES TAX** 2,566,68 SHIPPING 0.00 **TOTAL** 50,532.61

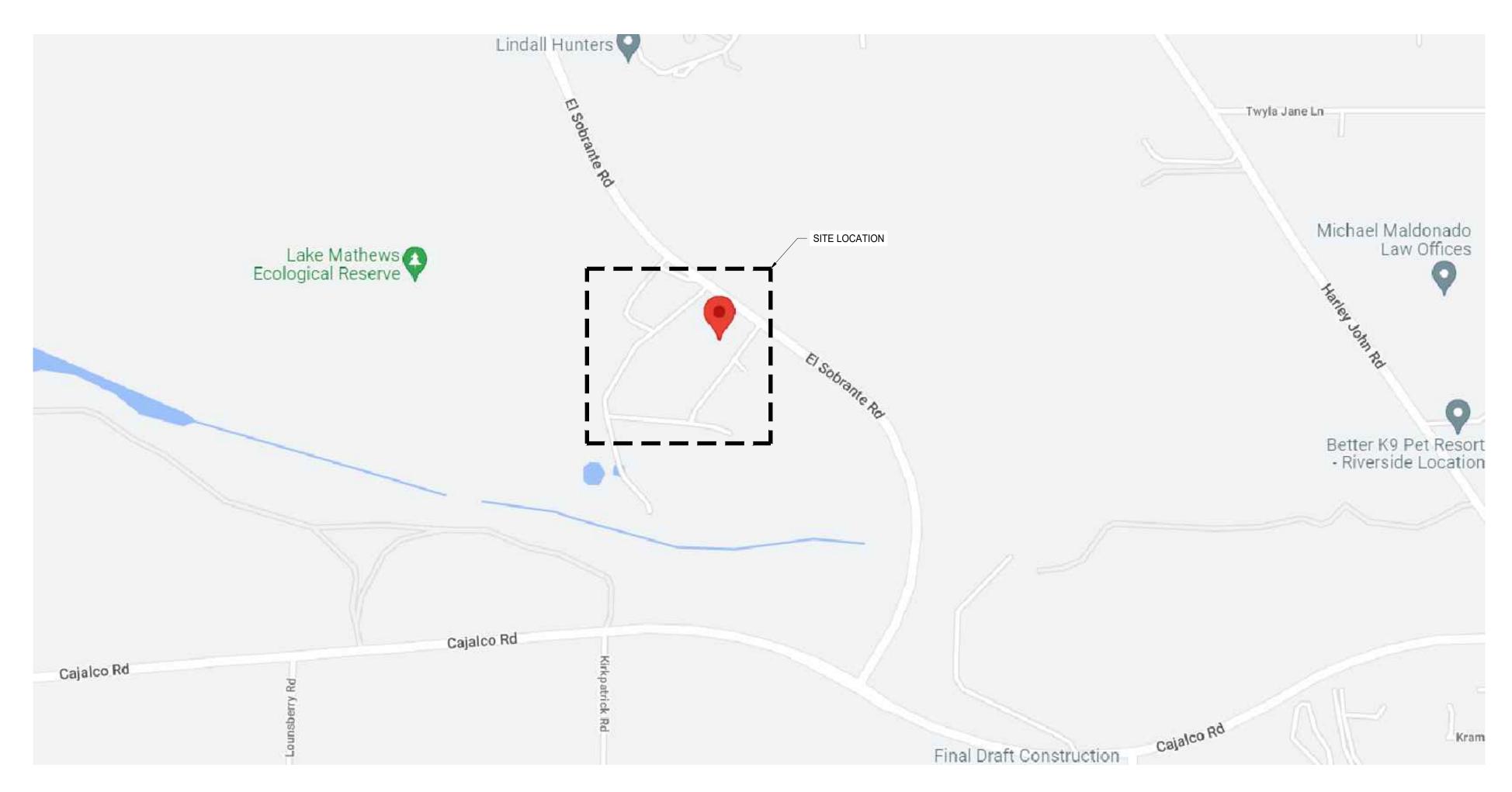
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- 8. Limitation on Liability Regarding Data Security. Notwithstanding any other provision of this Agreement with respect to the limitation of Vendor's liability, Vendor will indemnify District for any damage, claim or liability that results from the 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



PROJECT DIRECTORY

WESTERN MUNICIPAL WATER DISTRICT - RIVERSIDE 16451 EL SOBRANTE RD RIVERSIDE, CA 92503

SCE PROJECT ID: CRT-2022-0041 PROPERTY OWNER:

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

PROPERTY DESCRIPTION

285-120-030

SITE DEVELOPER: SOUTHERN CALIFORNIA EDISON (SCE) **BRIAN CATON** PROJECT MANAGER TRANSPORTATION ELECTRIFICATION PROJECT MANAGEMENT

CELL: 909-767-0098 BRIAN.CATON@SCE.COM

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

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.



VICINITY MAP

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, PR 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

SPECIFICATION SHEET

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G-0	TITLE PAGE
G-0.1	GENERAL NOTES, SYMBOLS, & ABBREVIATION
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G-0.4	NOTES #4
1 OF 1	TOPOGRAPHIC SURVEY
E-1	PLOT PLAN
E-1.1	SITE PLAN
E-2	DEMOLITION PLAN
E-3	LAYOUT DETAILS
E-4	DETAILS
E-5	SINGLE LINE & CONDUIT & WIRE SCHEDULE
E-5.1	TRENCH RUN & DETAIL



SITE MAP

G-0

PROJECT SITE

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

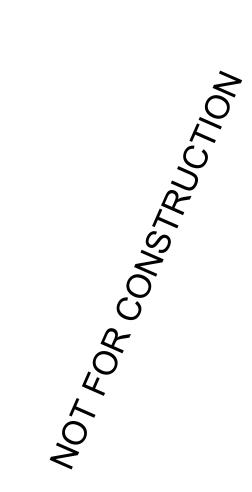
PROJECT DEVELOPER



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



REVISION						
MARK	DATE	DESCRIPTION				
V1	02-05-2024	CD90				

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

SHEET TITLE

TITLE PAGE

SHEET NUMBER

SYMBOLS LIST

AT +18" A.F.F. - U.O.N.

- STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
- STANDARD 20A, 120V-1Ø GROUNDING TYPE FOUR-PLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
- STANDARD 20A, 120V-1Ø GROUNDING TYPE GFCI DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
- STANDARD 20A, 120V-1Ø GROUNDING TYPE GFCI FOUR-PLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
- STANDARD 20A, 120V-1Ø GROUNDING TYPE DEDICATED DUPLEX RECEPTACLE WALL
- MOUNTED AT +18" A.F.F. U.O.N. STANDARD 20A, 120V-1Ø GROUNDING TYPE SIMPLEX RECEPTACLE, WALL MOUNTED
- 20A, 120V-1Ø ISOLATED GROUND DUPLEX RECEPTACLE WALL MOUNTED AT +18" A.F.F. - U.O.N.
- STANDARD 20A, 120V-1Ø GROUNDING TYPE ONE HALF SWITCHED DUPLEX RECEPTACLE MOUNTED AT +18" A.F.F. - U.O.N.
- STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED ABOVE CEILING/BELOW TILE PER A.T.F.
- SPECIAL RECEPTACLE MOUNTED AT +18" A.F.F. U.O.N.. AMPS VOLTS & PHASE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH RELOCATED OR NEW INSTALLED EQUIPMENT SUPPLIER PRIOR TO PLACING ORDER.
- SPECIAL 30A RECEPTACLE MOUNTED AT +18" A.F.F. -U.O.N.. VOLTS & PHASE AS INDICATED ON PLANS. VERIFY NEMA CONFIGURATION WITH INSTALLED EQUIPMENT SUPPLIER PRIOR TO PLACING ORDER.
- STANDARD 20A, 120V-1Ø GROUNDING TYPE DUPLEX RECEPTACLE MOUNTED WITHIN FLUSH OR SURFACE FLOOR OUTLET BOX. 'F" DENOTES FLUSH AND "S" DENOTES SURFACE
- STANDARD 20A, 120V-1Ø GROUNDING TYPE FOUR-PLEX RECEPTACLE MOUNTED WITHIN FLUSH OR SURFACE FLOOR OUTLET BOX.
- "F" DENOTES FLUSH AND "S" DENOTES SURFACE DISCONNECT SWITCH. AMPS - VOLTS & POLES AND FUSED OR NON-FUSED
- AS INDICATED. COMBINATION STARTER DISCONNECT SWITCH. AMPS - VOLTS & POLES
- AS INDICATED.
- MANUAL MOTOR STARTER SWITCH. RATED @ 1H.P. MIN-120V 1Ø U.O.N. PROVIDE COMPLETE WITH THERMAL OVERLOAD PROTECTION.
- JUNCTION BOX. SIZED BY THIS CONTRACTOR PER ACTUAL NUMBER OF CONDUITS AND/OR CONDUCTORS PASSING THRU ACCORDING TO NEC 2005 TABLE 314-16(a)(b).
- JUNCTION BOX, WALL MOUNTED AT +18" A.F.F. FOR FLEXIBLE CONNECTION TO PRE-WIRED FURNITURE SYSTEM. VERIFY CONNECTION REQUIREMENTS AND LOCATIONS WITH FURNITURE MANUFACTURER PRIOR TO ROUGH-IN.
- CIRCUIT BREAKER (SEE SINGLE LINE DIAGRAM)

FUSED SWITCH (SEE SINGLE LINE DIAGRAM)

- TRANSFORMER (SEE SINGLE LINE DIAGRAM)
- MOTOR OUTLET. H.P. OR F.L.A. VOLTS & PHASE AS INDICATED. VERIFY ELECTRICAL CHARACTERISTICS AND CONNECTION REQUIREMENTS WITH INSTALLED EQUIPMENT MANUFACTURER PRIOR TO ANY ROUGH-IN WORK.
- BRANCH CIRCUIT PANELBOARD. FLUSH OR SURFACE MOUNTED AS INDICATED ON PANELBOARD SCHEDULE.
- SERVICE ENTRANCE OR DISTRIBUTION EQUIPMENT AS SPECIFIED.

MULTI-OUTLET SURFACE RACEWAY ASSEMBLY. TYPE OF OUTLET

THERMOSTAT FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. PROVIDE J-BOX BETWEEN +36" to +48" A.F.F. - U.O.N.. PROVIDE 1/2" C.O. TO ASSOCIATED HVAC UNIT OR ACCESSIBLE CEILING SPACE.

GENERAL NOTES

- 1. PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FROM THE AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND OPERATING INSTALLATION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED
- PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING SYSTEM
- 3. ALL EQUIPMENT SHALL BE NEW. "UL" LISTED. AND LABELED.
- 4. THE LOCATION OF UNDERGROUND FACILITIES SHOWN ON THE PLANS ARE BASED ON AVAILABLE DOCUMENTATION PROVIDED. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES AND TO PERFORM UTILITY LOCATING SERVICES TO LOCATE THEIR FACILITIES A MINIMUM OF 48 HOURS PRIOR TO STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY THEIR WORK FORCE.
- ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES. AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO FALL PROTECTION, CONFINED SPACE, ELECTRICAL SAFETY, AND TRENCHING & EXCAVATION.
- 6. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- 7. ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE BASED ON AVAILABLE DOCUMENTATION PROVIDED. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY PROJECT MANAGER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION FOR NECESSARY CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR WORK HAVING TO BE REDONE DUE TO INFORMATION SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
- 8. $\,\,\,\,\,$ THE CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD DOCUMENTS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND CITY ORDINANCES. THE CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THEIR WORK.
- 10. ALL WORK CARRIED OUT SHALL COMPLY WITH APPLICABLE NATIONAL, MUNICIPAL AND LOCAL JURISDICTIONAL CODES, ORDINANCES AND REGULATIONS.UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT. APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATION ON THE DRAWINGS.
- 11. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC REPRESENTATION ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT SHALL MAINTAIN THE MINIMUM REQUIRED CODE AND MANUFACTURER CLEARANCES. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS. SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
- 12. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE WORK AREA, ADJACENT AREAS AND ANY BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- 14. THE CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 15. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 16. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE OWNER/CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 17. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- 18. ONLY ITEMS SPECIFICALLY CALLED OUT TO BE REMOVED OR DEMOLISHED SHALL BE AFFECTED. ANY ITEMS INCLUDING, BUT NOT LIMITED TO, CURBS, PAVEMENT, UTILITY ITEMS, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY AFFECTED ITEMS AT OWNERS DISCRETION.

CONSTRUCTION AND PROVIDE EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS PROVIDE ALL REQUIRED SILT FENCING, CONSTRUCTION FENCING, STRAW BALES, STORM DRAIN CATCH BASIN INSERTS (SOCKS), ENTRANCE ROCKING, AND ANY OTHER REQUIRED ELEMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND/OR CLEARING THE SITE.

- 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
- 21. THE CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND
- 22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION
- 23. THE CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF APPROVED PLANS WITH ALL REVISIONS. ADDENDA. MANUFACTURERS EQUIPMENT INSTALLATION INSTRUCTIONS AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- 24. THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 26. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- 27. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 29. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- SOUND FROM CONSTRUCTION EQUIPMENT, POWER TOOLS AND HAMMERING, ARE PROHIBITED BETWEEN THE HOURS OF 10:00 P.M. TO 7:00 A.M. ON WEEKDAYS AND 10:00 P.M. TO 9:00 A.M. ON WEEKENDS.
- ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- 32. PROVIDE RIVETED ON ENGRAVED PLASTIC NAMEPLATES (RED WITH WHITE LETTERS) FOR ALL MAJOR ELECTRICAL EQUIPMENT.
- 33. ALL DEVICES MOUNTED BACK TO BACK ON THE FIRE RATED WALL SHALL BE MOUNTED WITH 24" MINIMUM HORIZONTAL OFFSET.

19. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING

20. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO

CONTRACTORS TO THE SITE AND/OR BUILDING.

OF CONSTRUCTION UNTIL JOB COMPLETION.

- 25. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE
- DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AT
- 28. THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- 30. SOUNDS ORIGINATING FROM THE CONSTRUCTION SITE, INCLUDING BUT NOT LIMITED TO
- 31. PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN

REVISION DESCRIPTION MARK | DATE 02-05-2024 CD90

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PROJECT SITE

WESTERN MUNICIPAL WATER

DISTRICT - RIVERSIDE

16451 EL SOBRANTE RD

RIVERSIDE, CA 92503

PROJECT ID: CRT-2022-0041

PROJECT DEVELOPER

Energy for What's Ahead

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

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

SHEET TITLE

GENERAL NOTES, SYMBOLS, & ABBREVIATIONS

SHEET NUMBER

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



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



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V1	02-05-2024	CD90			

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

NOTES #2

SHEET TITLE

SHEET NUMBER

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 595 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: 1. 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 21/2% FCAN, 2 21/2% FCBN, SILVER PLATED. TAPS TO BE BOLTED-LINK TYPE AND LOCATED AT
- FRONT OF COILS FOR ACCESSIBILITY
- 7. 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)
- 13. CONDUCTOR ENTRY: SIDE.
- 14. PROVIDE ANTI-VIBRATION PADS OR ISOLATORS BETWEEN THE CORE/COIL AND
- ENCLOSURE.
- 15. PROVIDE VIBRATION ISOLATORS FOR ALL TRANSFORMERS. 16. 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..

WIRING DEVICES

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

- 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.
- 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

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

SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, BURNDY, OR EQUAL

GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE. MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING

N. FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS

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

PIPING AND CONDUIT.

- TRANSFORMERS CONTACTORS
- LIGHTING FIXTURES UNDERGROUND CONDUIT COORDINATION DRAWING SHOWING ACTUAL ROUTING AND BURIAL DEPTH COORDINATED WITH ALL OTHER EXISTING AND NEW UNDERGROUND
- 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.
- 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

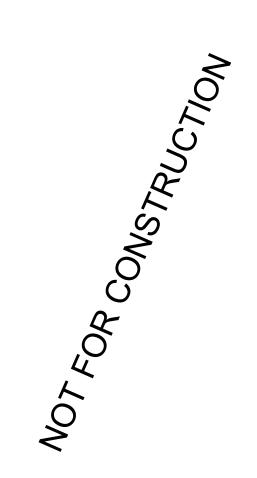
PROJECT DEVELOPER



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



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NOTES #3

SHEET TITLE

SHEET NUMBER

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

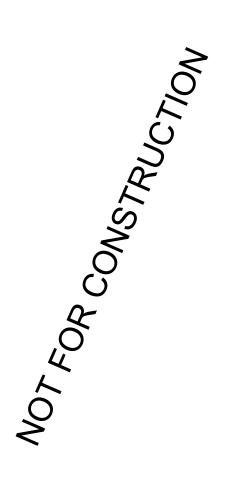
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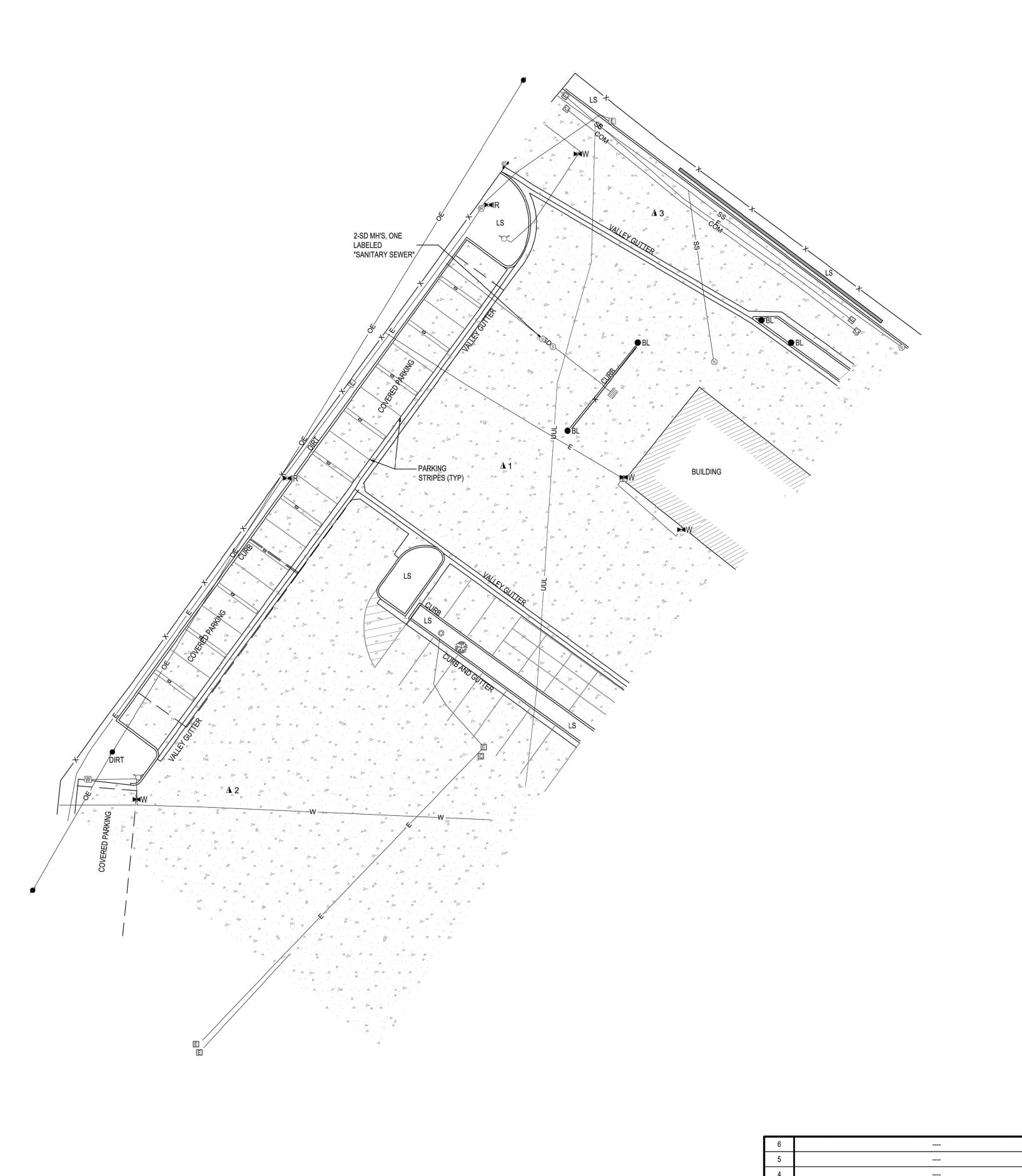
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SHEET TITLE

NOTES #4

SHEET NUMBER



SYMBOL LEGEND SYMBOL DESCRIPTION

BL BOLLARD ▲ CONTROL HORIZONTAL-VERTICAL

COMMUNICATION VAULT

DECIDUOUS TREE DROP INLET

© ELECTRIC LIGHT POLE

ELECTRIC POWER POLE E ELECTRIC RISER

E ELECTRIC VAULT

 ∀ FIRE HYDRANT GATE

IRRIGATION CONTROLER

■IR IRRIGATION VALVE SEWER CLEANOUT

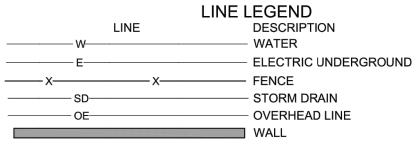
SEWER MANHOLE

UNKNOWN MANHOLE

W WATER RISER ₩W WATER VALVE

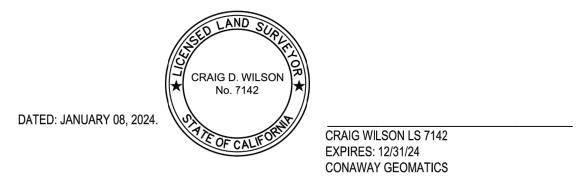
BUILDING HATCH

CONCRETE AREA ☐ COLUMN



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.



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.

2. ELEVATIONS SHOWN HEREON WERE DERIVED FROM GPS OBSERVATIONS WITH A RELATIVE ACCURACY OF ±0.01'.

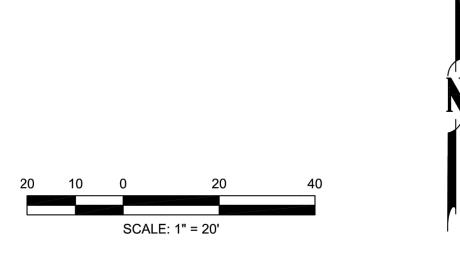
BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS MAP IS THE INTERNATIONAL TERRESTRIAL REFERENCE FRAME 2014 (ITRF2014), DERIVED FROM THE TRIMBLE RTX (REAL TIME EXTENDED) SOLUTION, ADJUSTED TO THE 2024.01 EPOCH, NAD 83, ZONE 6. COORDINATES SHOWN HEREON ARE GRID VALUES. USE THE FOLLOWING LOCAL SITE VALUES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

 LOCAL SITE -LAT: 33°50'21.253049"N LON: 117°22'19.425909"W E HGT: 1369.60 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.

ELEV. DESC. 2250833.96 1477.8 SET SCRIBED X 6220940.11 1481.7 SET SCRIBEDX 2250725.90 6220848.89 1476.9 SET SCRIBED X 2250918.15 6220990.48



			****	6
				5
CONAW				4
GEOMAT				3
GLOMAT				2
A Disabled Veteran Busine				1
	BY	DATE	DESCRIPTION	NO.
CONAWAYGEO.COM PH: (714) 486-0258		•	REVISIONS	

CONAWAY & GEOMATICS

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



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

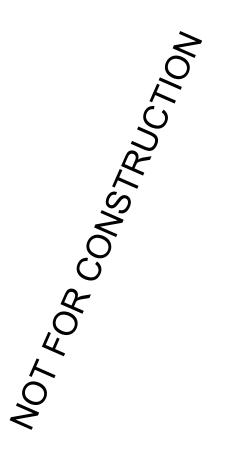
PROJECT DEVELOPER



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



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



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SHEET TITLE

PLOT PLAN

SHEET NUMBER

NOTES:

- 1. UTILITY DISTRIBUTION INFRASTRUCTURE TO BE BUILT BY OTHERS AND
- 2. IMPACTED EXISTING PARKING = 9 TOTAL SPACES.
- 3. PROPOSED CHARGING = 9 TOTAL.
- 4. EVSE LAYOUT BASED ON USE OF SINGLE AND DUAL PORT.
- PRIOR TO CONSTRUCTION.
- SPACE IS AVAILABLE.
- 7. FIELD VERIFY ALL EXISTING UTILITY LOCATIONS FOR EASEMENT REQUIREMENT.

(N) SINGLE PORT TERMINAL BLOCK

(E) ELECTRICAL POWER POLE

(N) UTILITY OVERHEAD TRANSFORMER

SCE ELECTRICAL SERVICE SUPPLY TO

(N) "EV-MSB"

SHOWN ONLY FOR PROJECT CLARITY AND COORDINATION.

5. ALL PARKING SPACES ARE EXISTING. FIELD TO VERIFY EXACT DIMENSION

6. FIELD VERIFY ALL EQUIPMENT LOCATION TO MAKE SURE APPROPRIATE

LEGEND:

E V S E

(N) ELECTRICAL CONDUIT

METER, BY T&D

PROJECT SITE

WESTERN MUNICIPAL WATER

DISTRICT - RIVERSIDE

16451 EL SOBRANTE RD RIVERSIDE, CA 92503

PROJECT ID: CRT-2022-0041

PROJECT DEVELOPER

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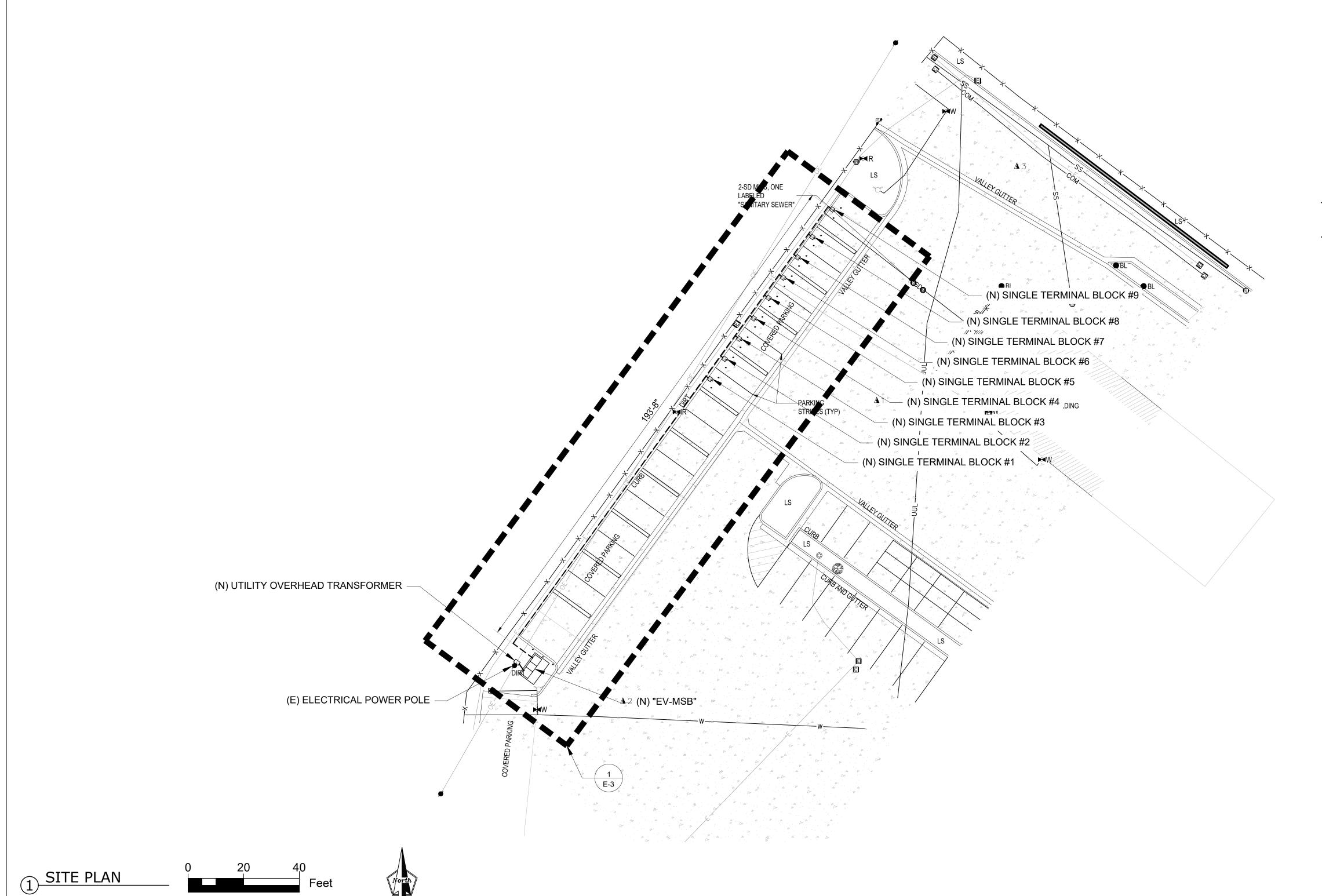
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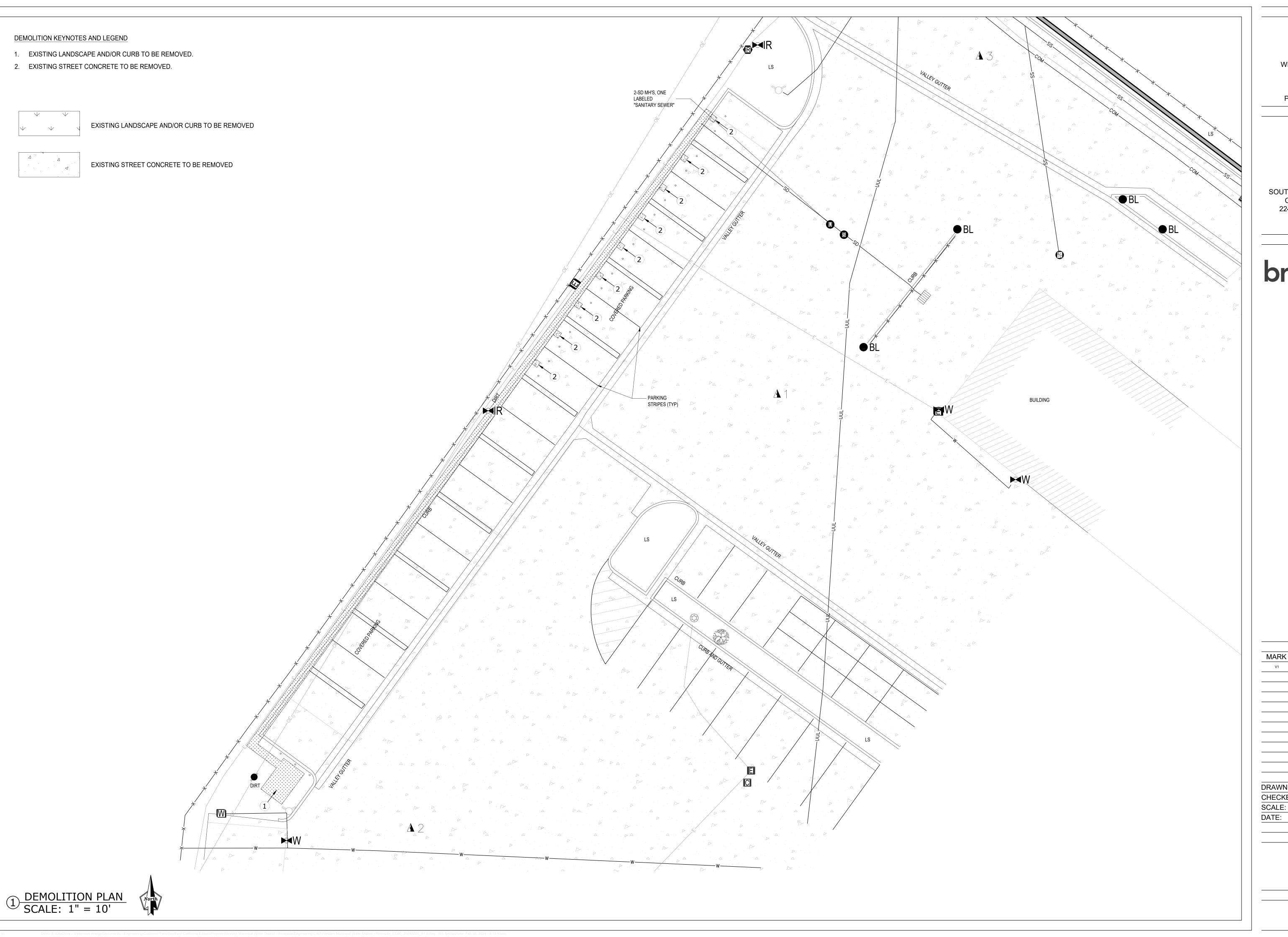
SHEET TITLE

SITE PLAN

SHEET NUMBER

E-1.1





WESTERN MUNICIPAL WATER
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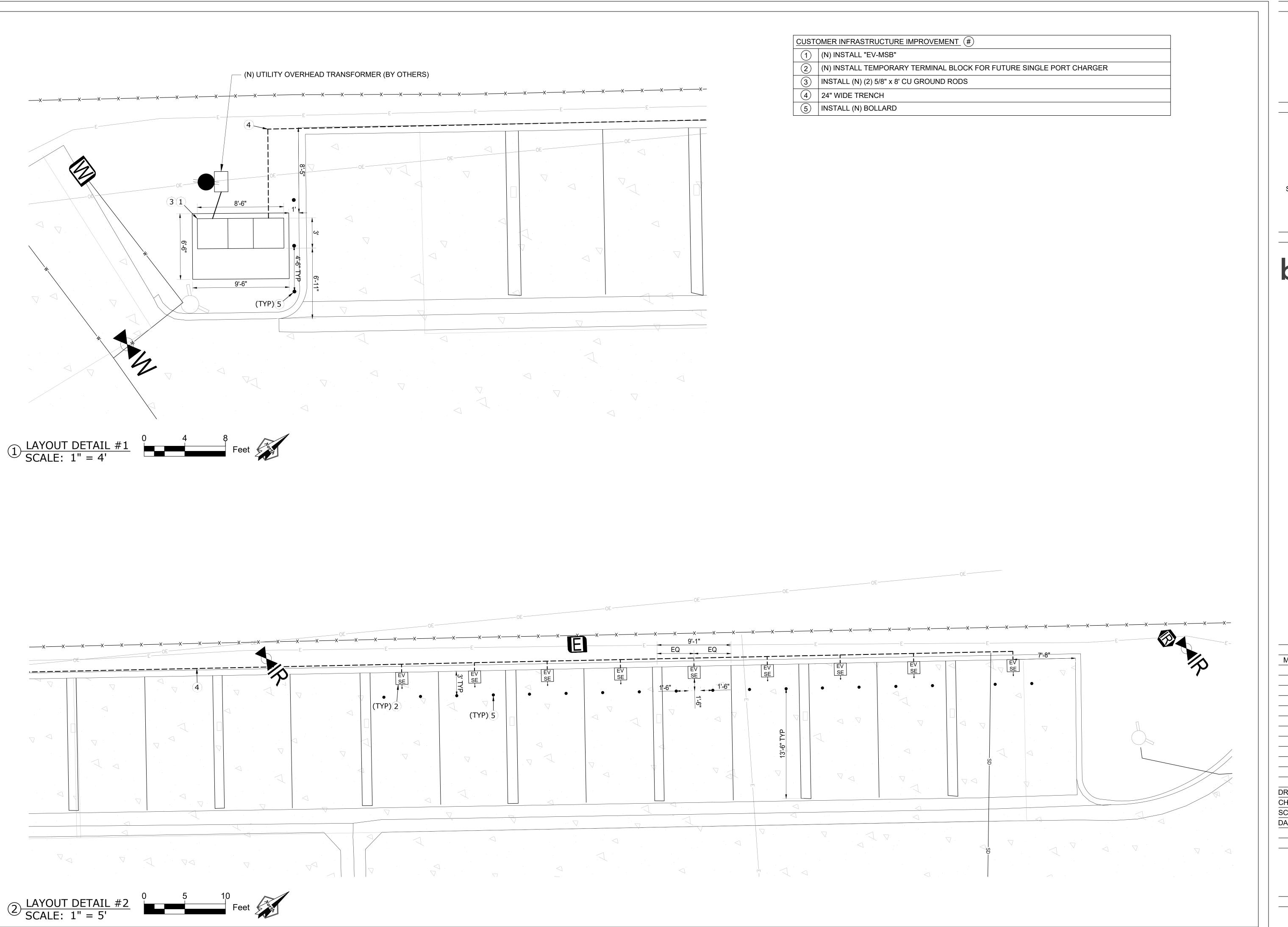
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SHEET NUMBER



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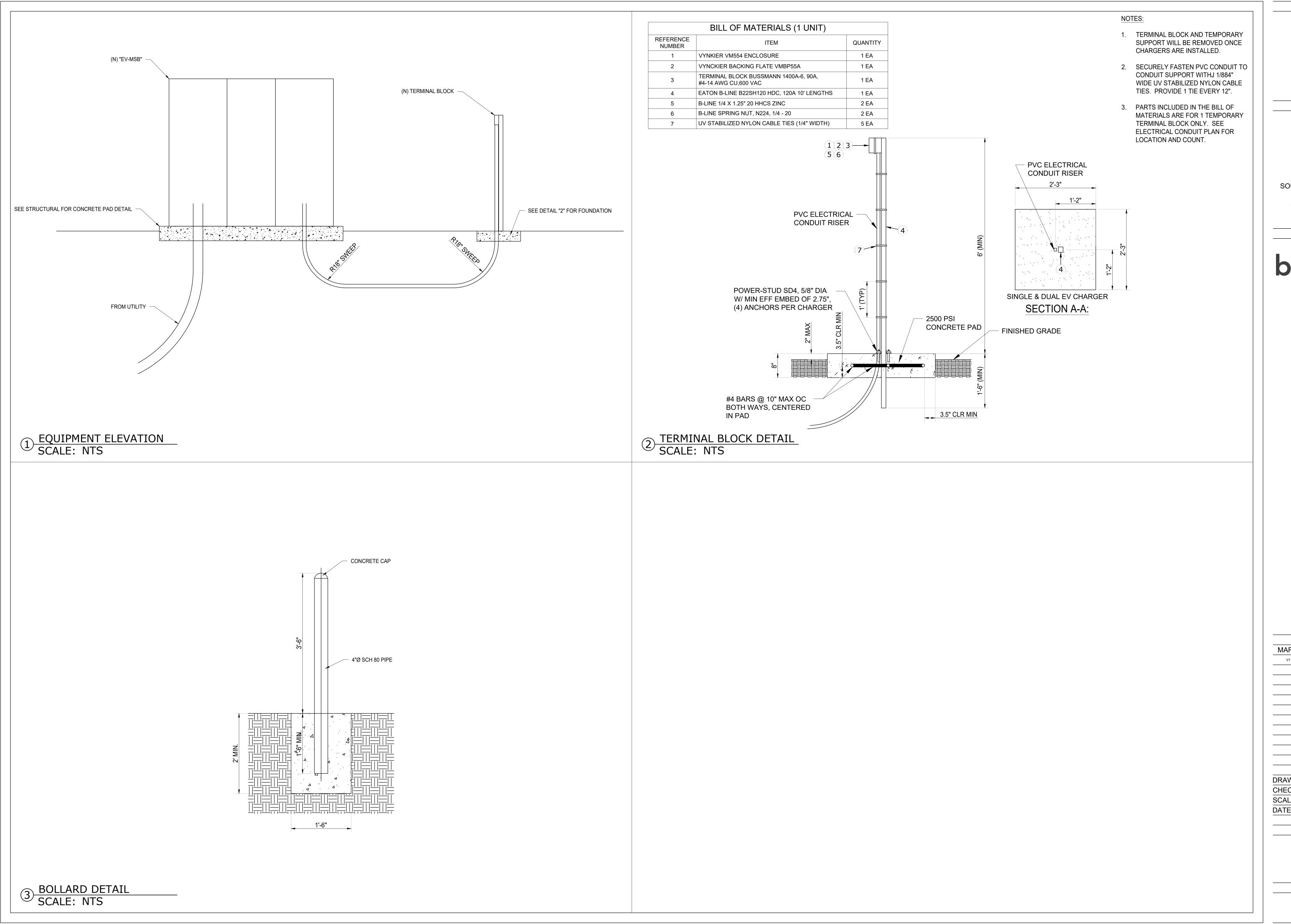
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SHEET TITLE

LAYOUT DETAIL

SHEET NUMBER



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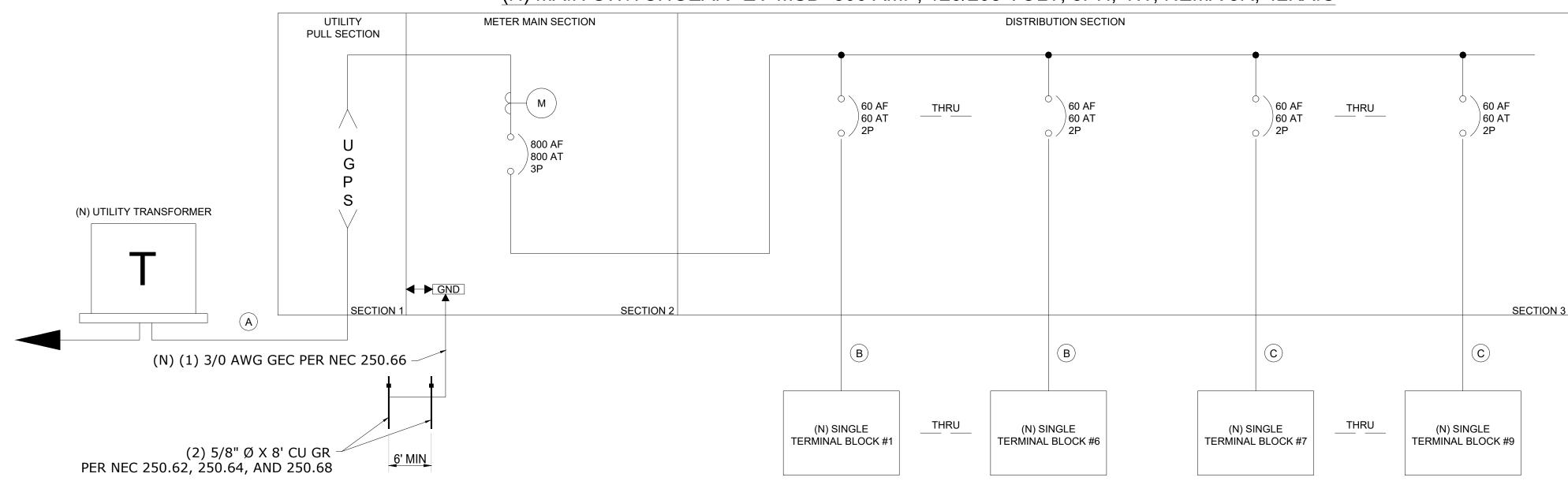
DETAILS

SHEET NUMBER

NOTES:

- 1. ALL FUTURE EV CHARGERS SHALL BE DESIGNED BY OTHERS UNDER SEPARATE PERMIT(S).
- 2. DESIGN ASSUMES NO ADDITIONAL LOADS WILL BE ADDED
- 3. ALL OCPD TO HAVE A MINIMUM 75 DEGREE TERMINATION LUG RATING

(N) MAIN SWITCHGEAR "EV-MSB" 800 AMP, 120/208 VOLT, 3PH, 4W, NEMA 3R, 42KAIC



1 SINGLE LINE DIAGRAM

									(N) "	EV.	-MS	B"											
MOUNTING	PAD		# OF PA	\RAL	LEI	FE	EEDE	ERS							V	OLT	S	12	20 /	208		MAIN	800A	
NEMA RATING	<u>3R</u>		NEUTR	AL (9	%)					100					P	HAS	E		3		_	BUS	800A	
FEED THRU	NO														V	/IRE			4			A.I.C.	42k	
LOCATION	A	В	С	L T G	C O N V	1 . 2 5	E C	I S	B K R	C I R C			C I R C	B K R	N I S	E C	2	C O N V	L T G	Α	В	С		LOCATION
TEMPORARY TERMINAL	4992					1		6	0/2	1	•	H	2											
SINGLE BLOCK #1		4992				-			- [3	+	\blacksquare	4											
TEMPORARY TERMINAL			4992			1		6	0/2	5	H	•	6											
SINGLE BLOCK #2	4992					-			- 1	7	+	\blacksquare	8											
TEMPORARY TERMINAL		4992				1		6	0/2	9	+	\blacksquare	10											
SINGLE BLOCK #3			4992			-			-	11		•	12											
TEMPORARY TERMINAL	4992					1		6	0/2	13	₩	\blacksquare	14											
SINGLE BLOCK #4		4992				-			- 1	15	-	\blacksquare	16											
TEMPORARY TERMINAL			4992			1		6	0/2	17	Н	•	18											
SINGLE BLOCK #5	4992					-			[19	+	\blacksquare	20											
TEMPORARY TERMINAL		4992				1		6	0/2	21	+	+	22											
SINGLE BLOCK #6			4992			-			-	23		•	24											
TEMPORARY TERMINAL	4992					1		6	0/2	25	•	+	26											
SINGLE BLOCK #7		4992				-			- 1	27	-	Ш	28											
TEMPORARY TERMINAL			4992			1		6	0/2	29		•	30											
SINGLE BLOCK #8	4992					-			-	31	•	+	32											
TEMPORARY TERMINAL		4992				1		6	0/2	33	\blacksquare	H	34											
SINGLE BLOCK #9			4992			-				35		+	36											-
										37	•	H	38											
										39	+	\blacksquare	40											
										41		+	42											
	A=	29952		,						B=	2995	52				•				C	> 29952			
TOTAL VA=	89856	AMPS=	249		TOTA	LV	\ WLC	CL=			112	320	Α	MPS V	//LCL	=	312							
HIGH PHASE VA=	29952	AMPS=	250		HIGH	PHA	SEVA	W/LC	L=		37	440	Α	MPS V	V/LCL	=	312	·····			·····			

2 PANEL SCHEDULE

	CONDUIT & WIRE SCHEDULE												
IDENTIFIER	FROM	TO VOLTAGE (VAC - PHASE) NET CURRENT OCPD (AMPS)				NUMBER OF CONDUIT RUN	CONDUIT SIZE/TYPE	WIRE CONTENTS PER CONDUIT RUN	ONE WAY DISTANCE (MAX)	%VDROP	REMARKS		
А	(N) UTILITY TRANSFORMER	(N) MAIN SWITCHGEAR "EV-MSB"	120/208V-3ф	250	800	REFER TO UTILITY DRAWING	REFER TO UTILITY DRAWING	REFER TO UTILITY DRAWING	-	-	-		
В	(N) MAIN SWITCHGEAR "EV-MSB"	(N) TEMPORARY SINGLE TERMINAL BLOCKS #1 - #6	208V-1¢	48	60	1	1" C SCH 40 PVC	(2) #4 AWG THWN-2 (1) #6 AWG EGC	209	2.98	0 - 209 FEET MAX		
С	(N) MAIN SWITCHGEAR "EV-MSB"	(N) TEMPORARY SINGLE TERMINAL BLOCKS #7 - #9	208V-1¢	48	60	1	1" C SCH 40 PVC	(2) #2 AWG THWN-2 (1) #4 AWG EGC	239	2.14	210 - 333 FEET MAX		

3 CONDUIT AND WIRE SCHEDULE

PROJECT SITE

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

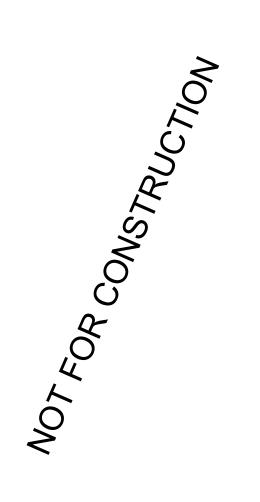
PROJECT DEVELOPER



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



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



	RI	EVISION
MARK	DATE	DESCRIPTION
V1	02-05-2024	CD90
		·

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

SHEET TITLE

SINGLE LINE & CONDUIT & WIRE SCHEDULE

SHEET NUMBER

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 <u>TEL:</u> (800) 6554555



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REVISION MARK DATE DESCRIPTION V1 02-05-2024 CD90										
MARK	DATE	DESCRIPTION								
V1	02-05-2024	CD90								

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

SHEET TITLE

TRENCH RUN & DETAIL

SHEET NUMBER

E-5.1

NOTE:

- EV CHARGER SPEC SHEET FOR REFERENCE ONLY. USE FOR DESIGN CALCULATION.



as Siemens Desigo for dynamic load management that smartly adjusts as building energy demand changes. The rugged and slender VersiCharge AC charger is suitable for both indoor and outdoor (residential or commercial) use and can either be mounted on a wall or supplementary post.		COMPANY About Us Locations / Hours / Maps	ONLINE RESOURCES Shop Now Custom Panelboard	POLICIES Returns Warranty Shipping / Freight	ADDITIONAL SITES Shop EV Chargers DCC EV Energy	TRAINING Warshauer Tech CEU Classes Online Training	EMAIL SUBSCRIPTION More than just a mailing list New Products - Promotions - Events Giveaways - Priority
Features / Benefits		Line Card Company Profile	Request Website FAQ	Terms of Sale Cash Discount	Management Systems	Courses Video-Based Training	Warshauer Tech Registration - Much Much More
 Siemens US2:VERSICELL40 VersiCharge Commercial Child Electric Vehicle Charger RFID, Wi-Fi and Ethernet Connectivity 		News / Events / Promotions	Account Inquiry Open Orders Proof of Delivery	Attorney Fees Privacy	Surge Protection Depot E-Mon Submeters		SIGN ME UP
 Cell Ready - AT&T 208 - 240 Volt 48 Amp 		Careers Employment Application	Slang Terms Paperless Billing		Infratech Heaters RAB Lighting		
 Single Phase 60 Hz Frequency 11.5kW Output 		Credit Application Credit Card Authorization	Sitemap		Salisbury Electrical Safety The Lighting Design		
 NEMA 4 Enclosure J1772 Plug 20 Foot Cord 		Online Check Payment Contact Us			Center Warshauer Tech		
 Wall / Post Mount Standards: UL 1998, UL 991, UL2594/CSA C22.2 No. 280/NMX-J-677-ANCE, UL 2231-1/CSA C22.2 		24/7 Emergency Services Generators					
 Applications: For Workplaces, Retail, Parking Garages, Multi-residential, All Public Charging and Home Charging 	Call	State Contracts					Call
UPC: 195125258297 Part Number: 8EM13105CF141GA2	Email	Copyright © 2023 Warsha	uer Electric Supply Site pow	ered by Billtrust eCommerce	Storefront: WES LSI Catalog	: fy	
Status: Stock							

6/9/23, 4:42 PM Siemens VersiCharge Commercial Parent 48 Amp 11.5kW EV Charger with Wi-Fi and RFID - AT&T Cell Ready 8EM13105CF141G...

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6/9/23, 4:42 PM Siemens VersiCharge Commercial Parent 48 Amp 11.5kW EV Charger with Wi-Fi and RFID - AT&T Cell Ready 8EM13105CF141G...

https://www.warshauer.com/buy/product/siemens-versicharge-commercial-parent-48-amp-11-5kw-ev-charger-with-wi-fi-and-rfid-at-t-cell-ready-8em131... 2/3

PROJECT SITE

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

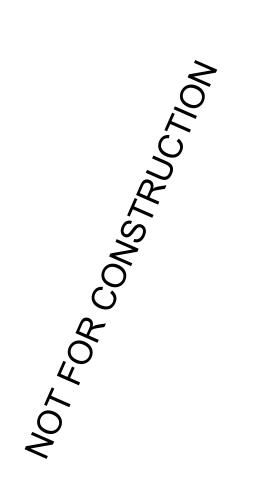
PROJECT DEVELOPER



SOUTHERN CALIFORNIA EDISON CO.
CHARGE READY PROGRAM
2244 WALNUT GROVE AVENUE
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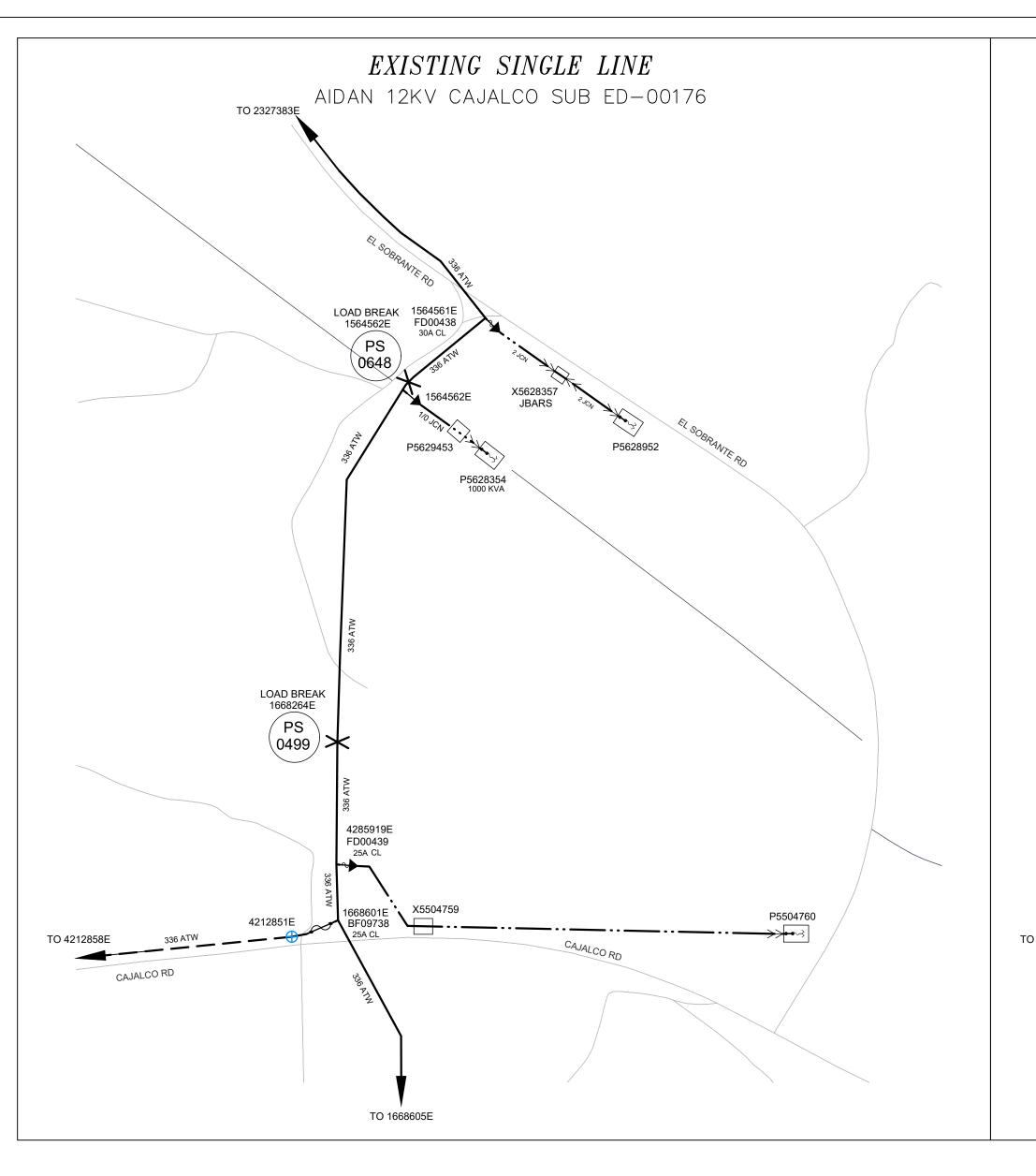
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MARK	DATE	DESCRIPTION
V1	02-05-2024	CD90

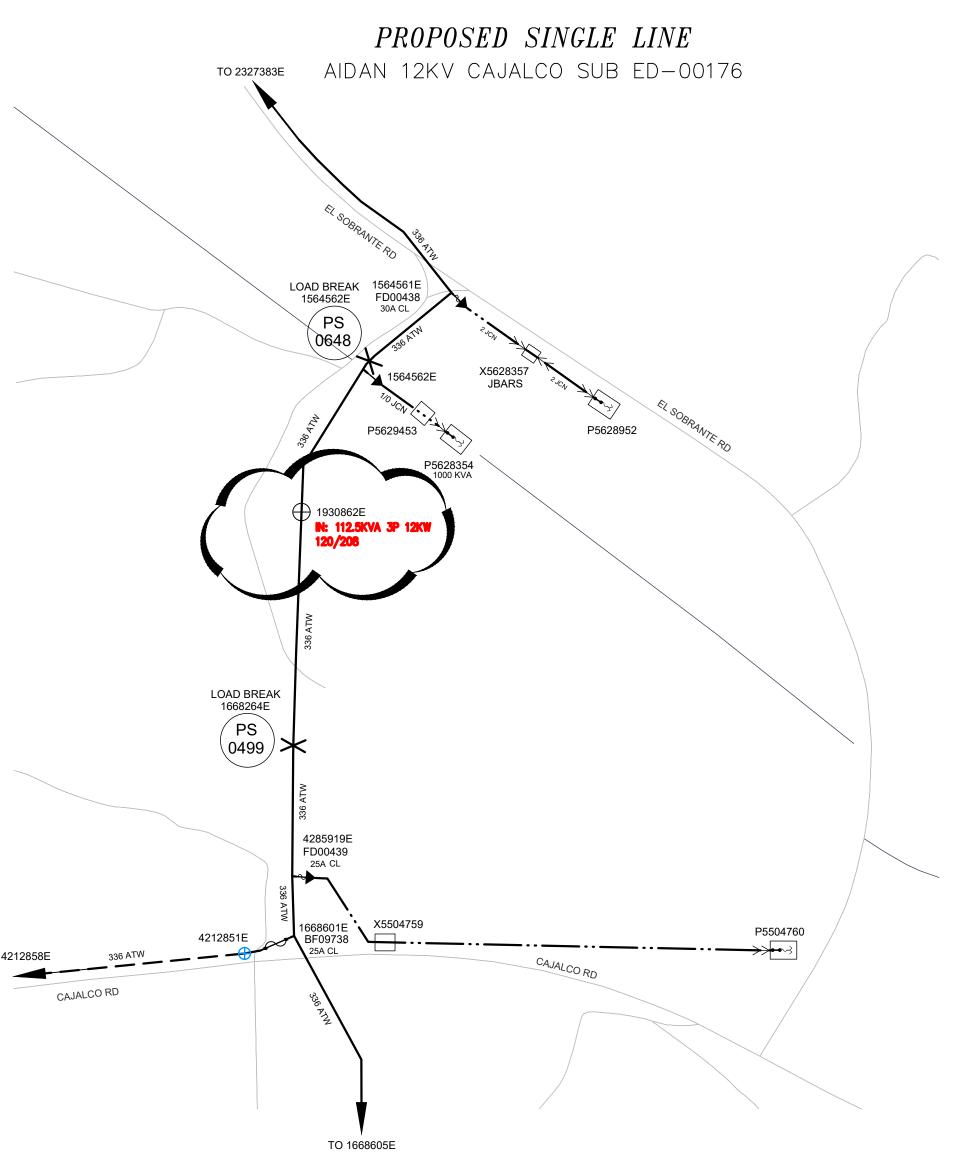
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CHECKED BY:	RV
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DATE:	2/5/2

SHEET TITLE

SPECIFICATION SHEET

SHEET NUMBER





PROTECTIVE BARRIERS FOR UNDERGROUND DISTRIBUTION STRUCTURES SEE

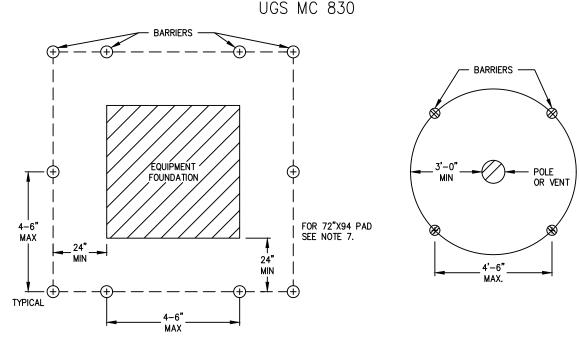


FIGURE MC 830-1.1: PLAN EQUIPMENT FOUNDATION FIGURE MC 830-1.2: PLAN POLE OR VENT STRUCTURES WILL NORMALLY BE INSTALLED ONLY IN NONTRAFFIC AREAS. PROTECTIVE BARRIERS ARE TO BE USED WHERE CONSTRUCTION

TOPS OF PROTECTIVE BARRIERS ARE TO BE SMOOTH CUT AND TOP EDGES ARE TO BE ROUNDED. AT LEAST ONE BARRIER IS TO BE REMOVABLE, WITH A MEANS OF LIFTING TO SUPPORT THE WEIGHT OF THE BARRIER, WHEN OVERHEAD OBSTACLES PREVENT EQUIPMENT REMOVAL OR INSTALLATION BY CRANE. SEE FIGURE MC 830-1.3 (SHEET 2). THE LOCATION OF THE REMOVABLE BARRIER(S) SHALL BE APPROVED BY THE UNDERGROUND INSPECTOR.

ADEQUATE CLEARANCE MUST BE PROVIDED FOR DOORS, COOLING RADIATORS, AND SO FORTH. PROTECTIVE BARRIERS, AS SHOWN ABOVE, INDICATE TYPICAL REQUIREMENTS. FIELD CONDITIONS WILL NECESSITATE CHANGES FOR ADEQUATE EQUIPMENT PROTECTION. APPLICATION OF PROTECTIVE BARRIERS IS SITE—SPECIFIC. THE UNDERGROUND INSPECTOR IN THE FIELD MUST APPROVE ALL PROTECTIVE BARRIER INSTALLATIONS PRIOR TO CONSTRUCTION. THE UNDERGROUND INSPECTOR WILL DETERMINE (A) STATUS OF OVERHEAD OBSTRUCTIONS, (B) THE FRONT AND BACK OF EQUIPMENT FOUNDATIONS, AND (C) THE CLEARANCES REQUIRED ON DOORS, COOLING RADIATORS, AND SO FORTH.

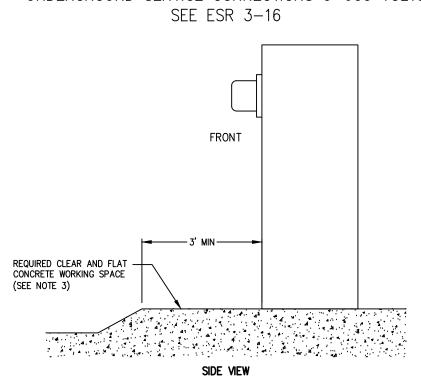
WHEN A 72" X 94" PAD IS BEING INSTALLED, (A) INCREASE THE DISTANCE TO 36 INCHES MINIMUM BETWEEN THE PROTECTIVE BARRIERS AND

THE FRONT EDGE OF THE PAD: AND (B) INCREASE THE DISTANCE BETWEEN THE PROTECTIVE BARRIERS AND THE BACK EDGE OF THE PAD FOR CAPACITOR BANK (DOOR SIDE ONLY) TO 36 INCHES MINIMUM. THE UNDERGROUND INSPECTOR WILL DETERMINE THE FRONT AND BACK OF THIS 8. WITH PRIOR SCE APPROVAL, THE FOLLOWING ALTERNATIVES MAY BE USED IN LIEU OF PROTECTIVE BARRIERS FOR PADMOUNTED STRUCTURES: a. WHEN SPECIFIED ON WORKING DRAWING, A 6-INCH (MINIMUM VERTICAL FACE) CONCRETE CURB MAY BE INSTALLED IN PLACE OF PROTECTIVE BARRIERS. THIS CURB MUST BE AT LEAST 6 INCHES THICK AND ITS FRONT FACE AT LEAST 60 INCHES (MINIMUM SPACING) FROM THE

b. WHEN SPECIFIED ON WORKING DRAWING FOR RESIDENTIAL TRACT DEVELOPMENTS, PROTECTED BARRIERS WILL NOT BE REQUIRED WHEN THERE ARE ROLLED CURBS OR 6-INCH VERTICAL FACE CURBS THAT HAVE AT LEAST 60 INCHES (MINIMUM SPACING) FROM THE CURB TO THE EDGE :. WHERE EQUIPMENT IS LOCATED ADJACENT TO A RESIDENTIAL DRIVEWAY, PROTECTIVE BARRIERS MAY NOT BE REQUIRED WHEN THERE IS 30-INCH (MINIMUM) CLEARANCE FROM THE EQUIPMENT FOUNDATION TO THE EDGE OF THE DRIVEWAY. IN ADDITION, A 60-INCH CLEARANCE SHALL BE MAINTAINED FROM A FIRE HYDRANT TO A POLE. FIELD CONDITIONS WILL NECESSITATE CHANGES FOR ADEQUATE EQUIPMENT PROTECTION. IF THE MINIMUM CLEARANCES CANNOT BE OBTAINED, PROTECTIVE BARRIERS ARE REQUIRED.
WITH PRIOR SCE APPROVAL, THE FOLLOWING ALTERNATIVES MAY BE USED IN LIEU OF PROTECTIVE BARRIERS FOR PRIMARY SURFACE OR SEMI BURIED STRUCTURES INCLUDING BURD STRUCTURES: a. WHEN SPECIFIED ON WORKING DRAWING, A 6-INCH (MINIMUM VERTICAL FACE) CONCRETE CURB, 8-FEET IN LENGTH MAY BE INSTALLED IN PLACE OF PROTECTIVE BARRIERS. THIS CLIRB MUST BE AT LEAST 6 INCHES THICK b. WHERE THERE ARE ROLLED CURBS OR CURBS THAT HAVE LESS THAN 6-INCHES OF VERTICAL FACE, PROTECTIVE BARRIERS MAY NOT BE

REQUIRED WHEN THERE IS AT LEAST 60 INCHES (MINIMUM SPACING) FROM THE CURB TO THE EDGE OF THE PRIMARY SURFACE OR SEMI BURIED STRUCTURES. (SEE FIGURE MC 830-1.5) c. WHERE EQUIPMENT IS LOCATED ADJACENT TO A RESIDENTIAL DRIVEWAY, PROTECTIVE BARRIERS MAY NOT BE REQUIRED WHEN THERE IS 30-INCH (MINIMUM) CLEARANCE FROM THE EQUIPMENT FOUNDATION TO THE EDGE OF THE DRIVEWAY. (SEE FIGURE MC 830-1.5) d. FIELD CONDITIONS WILL NECESSITATE CHANGES FOR ADEQUATE EQUIPMENT PROTECTION. IF THE MINIMUM CLEARANCES CANNOT BE OBTAINED OR THERE IS NO CURB, PROTECTIVE BARRIERS SHALL BE REQUIRED. e. IN ADDITION, A 60-INCH CLEARANCE SHALL BE MAINTAINED FROM A FIRE HYDRANT TO A POLE, TRANSFORMERS, PME SWITCHES, OR ANY

PANEL CLEARANCE UNDERGROUND SERVICE CONNECTIONS 0-600 VOLTS SEE ESR 3-16



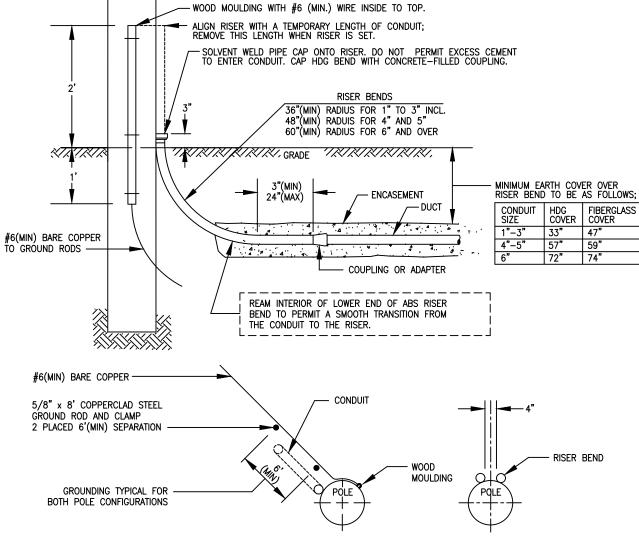
A MINIMUM OF THREE (3) FEET OF CLEAR, LEVEL WORKSPACE IS REQUIRED IN FRONT OF ALL TERMINATION, METERING, AND SERVICE EQUIPMENT SEE ESR-5 FOR METER-MOUNTING HEIGHT REQUIREMENTS. METER-MOUNTING HEIGHT WILL BE MEASURED FROM THE STANDING AND WORKING SPACE TO THE CENTERLINE OF THE METER(S). 3. WHEN SERVICE EQUIPMENT IS INSTALLED ON AN ELEVATED PORTION OF THE FLOOR/GROUND, OR HOUSEKEEEPING PAD, THE PAD SHALL BE FLUSH WITH

AND EXTEND A MINIMUM OF THREE (3) FEET. THIS IS MEASURED FROM THE FRONT OF THE SERVICE EQUIPMENT OR THE OUTER DOOR(S) OF THE SWITCHBOARD NEMA 3R ENCLOSURE WHEN INSTALLED. IN NO CASE SHALL THE MAXIMUM METER HEIGHT OF 6'-3" BE EXCEEDED. TO MAINTAIN A SAFE, CLEAR, AND LEVEL WORKING AREA IN FRONT OF NEW OR EXISTING METER AND SERVICE EQUIPMENT, A CONCRETE SLAB, ACCEPTABLE TO THE COMPANY, MUST BE USED.

5. FOR SWITCHBOARDS ABOVE 600V, FIVE-FOOT MINIMUM OF CLEAR AND LEVEL CONCRETE STANDING AND WORKING SPACE IS REQUIRED IN THE FRONT, REAR, AND SIDE OF ANY SECTION WHERE SUCH PART SUPPORTS OR PROVIDES ACCESS TO METERING, TESTING EQUIPMENT, OR SERVICE CABLE

16.11 PROTECTIVE BARRIERS (POSTS/BOLLARDS) FOR SERVICE EQUIPMENT
BARRIER POSTS/BOLLARDS ARE USED TO PROTECT THE METER AND SERVICE EQUIPMENT, AS WELL AS PERSONNEL, FROM VEHICULAR CONTACT, AND TO PROHIBIT ENCROACHMENT INTO THE WORKING SPACE (FOR EXAMPLE, LOADING ZONES, DRIVEWAYS, CONGESTED AREAS, OFF STREET THE CUSTOMER SHALL PROVIDE AND INSTALL "NON-REMOVABLE" BARRIERS (POSTS/BOLLARDS) TO PROVIDE THE PROPER SAFE WORKING CLEARANCES WHERE THE WORKSPACE IS EXPOSED TO VEHICULAR OR OTHER HAZARDOUS CONDITIONS. METERS WILL NOT BE SET UNTIL THE BARRIERS HAVE BEEN INSTALLED. METER CABINET DOORS MUST OPEN A MINIMUM OF 90 DEGREES AND NOT CONFLICT WITH BARRIER POSTS. A MINIMUM CLEARANCE OF 3-FEET IS REQUIRED FROM THE FACE OF THE SWITCH GEAR TO THE BOLLARD/POST.

POLE RISER BEND STANDARD LOCATION SEE UGS CD 160



APPROVED RISER BENDS ARE SHOWN ON FOLLOWING TABLE;

D78: REV. 02/14/11

NOTE: 6" HDG OR FIBERGLASS RISER BEND SHALL BE USED WHEN SPECIFIED ON THE WORKING DRAWING. SEE UGS AC 702 FOR GROUNDING HDG RISER BENDS. THE TOP AND BOTTOM OF 3", 4", 5" OR 6" FIBERGLASS BENDS ARE FURNISHED WITH PERMANENTLY ATTACHED PVC COUPLINGS. ALSO INCLUDED IS A 6" LONG 3", 4", 5" OR 6" SCHEDULE 80 PVC STUB-OUT, SOLVENT WELDED INTO THE TOP COUPLING. SEE UGS CD 166 FOR FIBERGLASS RISER BEND MATERIAL INFORMATION AND SUPPLIERS. TWO GROUND RODS ARE REQUIRED AT ALL PRIMARY RISER POLES. DRIVE RODS IN TRENCH BOTTOM WITH 6' MINIMUM SEPARATION IN UNDISTURBED EARTH. LEAVE THE ROD TOPS 3" ABOVE THE TRENCH BOTTOM AND ATTACH CONTINUOUS GROUND WIRE WITH CLAMPS. EXTEND WIRE TO INDICATED LOCATION ON POLE AND STUB UP ? ABOVE GRADE IN WOOD MOULDING. ALL GROUNDING MATERIALS FURNISHED BY CONTRACTORS. SEE UGS AC 703 FOR APPROVED GROUNDING MATERIALS. ENCASEMENT REQUIRED ONLY WHEN CALLED OUT ON WORKING DRAWING.

PVC RISERS MAY BE SUBSTITUTED FOR FIBERGLASS FOR STRAIGHT RUNS OF 150' OR LESS IN CONDUIT SIZES 4" AND

LEGEND CODE DEFINITIONS

CI - CUSTOMER/CONTRACTOR INSTALLED: MATERIALS FURNISHED AND INSTALLED BY APPLICANT AT EDISON'S EXPENSE AND ARE DEEDED TO EDISON. (EXCEPTION: STREET LIGHT ELECTROLIERS WILL BE INSTALLED BY EDISON'S CONTRACTOR.)

CO - CUSTOMER OWNED: MATERIALS FURNISHED, INSTALLED, OWNED, AND MAINTAINED BY APPLICANT.

CF - CUSTOMER FURNISHED: MATERIALS FURNISHED AND INSTALLED BY APPLICANT AT APPLICANT'S EXPENSE THAT ARE DEEDED TO EDISON.

IN - INSTALL: MATERIALS FURNISHED AND INSTALLED BY APPLICANT IF APPLICANT INSTALLED PROJECT OR BY EDISON IF EDISON INSTALLED PROJECT. (EXCEPTION: FOR AN APPLICANT INSTALLED LINE EXTENSION.

STATION NOS., HAVING AN ASTERISK ADJACENT TO AN "IN" LEGEND CODE REPRESENTS MATERIALS TO BE PROVIDED BY APPLICANT AND INSTALLED BY EDISON IN ALL CASES. REFER TO DPB 8258. PROJECT MATERIAL LIST BY ASSEMBLY WITHIN A STATION.)

RM - REMOVE: MATERIALS REMOVED BY EDISON.

MI - MEMO INSTALLED: SAME AS IN/INSTALL.

MR - MEMO REMOVED: MATERIALS REMOVED BY EDISON.

SI - SHOO-FLY INSTALLED: MATERIALS FURNISHED AND INSTALLED BY EDISON FOR TEMPORARY CONSTRUCTION.

SR - SHOO-FLY REMOVED: MATERIALS REMOVED BY EDISON FOR TEMPORARY CONSTRUCTION.

TR - TRANSFER: EDISON LABOR REQUIRED TO TRANSFER EXISTING FACILITIES. D31: 03/22/24

ALL ELECTRICAL DUCTS AND STRUCTURES WILL CONFORM TO GENERAL ORDER #128 (RULES FOR CONSTRUCTION OF UNDERGROUND ELECTRICAL SUPPLY AND COMMUNICATION PRESCRIBED BY THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA, JANUARY 2006).

THE EXCAVATOR MUST TAKE ALL STEPS NECESSARY TO AVOID CONTACT WITH UNDERGROUND FACILITIES WHICH MAY RESULT IN INJURY TO PERSONS OR DAMAGE TO FACILITIES IN THE AREA. THE INDICATED LOCATIONS OF EDISON UNDERGROUND FACILITIES, AS PROVIDED, ARE BELIEVED TO BE ACCURATE, HOWEVER, THE FINAL DETERMINATION OF EXACT LOCATIONS AND THE COST OF REPAIR TO DAMAGED FACILITIES IS THE RESPONSIBILITY OF THE EXCAVATOR.

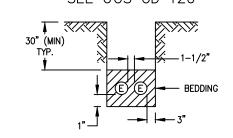
Note: Per ESR 3, Section 15.5

D06: 03/22/24

Existing underground terminating pull box or switchboard pull section ampacity rating shall be equal to or greater than the ampacity rating of the total main switch capacity for which it is serving Adding services exceeding the ampacity rating of a terminating pull box or switchboard pull section is not acceptable.

APPLICANTS EXPRESSLY REPRESENT AND WARRANT THAT ALL WORK PERFORMED AND ALL MATERIAL USED IN MEETING APPLICANTS' OBLIGATIONS HEREIN ARE FREE FROM DEFECTS IN WORKMANSHIP AND ARE IN CONFORMITY WITH SOUTHERN CALIFORNIA EDISON COMPANY'S REQUIREMENTS. THIS WARRANTY SHALL COMMENCE UPON RECEIPT BY APPLICANTS OF THE COMPANY'S FINAL ACCEPTANCE AND SHALL EXPIRE ONE YEAR FROM THAT DATE. APPLICANTS AGREE TO PROMPTLY CORRECT TO THE COMPANY'S SATISFACTION AND THAT OF ANY GOVERNMENTAL AGENCY HAVING JURISDICTION AND AT APPLICANTS' EXPENSE ANY BREACH OF THIS WARRANTY WHICH MAY BECOME APPARENT THROUGH INSPECTION OR OPERATION OF UNDERGROUND ELECTRIC SYSTEM BY THE COMPANY DURING THIS WARRANTY PERIOD.

> TYPICAL CONDUIT BANK SECTION SEE UGS CD 120



DIRECT BURIAL SIMILAR CONSTRUCTION FOR FEWER CONDUIT 2 CONDUITS MAX.

PROJECT REQUIREMENTS (Y/N))
EDISON EASEMENT REQUIRED	Y
PWRD 88 REQUIRED UG	Y
CIVIL ONLY WORK ORDER	N
PERMIT REQUIRED	N
PERMIT TYPE:	
OUTAGE REQUIRED	Y
OUTAGE DATE: TIME:	
TRAFFIC CONTROL REQUIRED	N
PED. TRAFFIC CONTROL REQ'D	N
CONVEYANCE LETTER REQ'D	N
ENVIRONMENTAL REQUIREMENTS DOCUMENT (ERD) REQUIRED	Y
CSD 140 (TLM) REQ'D	Y
CIRCUIT MAP CHANGE REQ'D (TD 203)	Y
DIG ALERT APP	Y
VERIFIED ACTIVE AND CONFIRMED USA TICKETS	
UTILIQUEST NOTIFIED	
FAA MARKING REQ'D	
FAA TYPE:	
STANDARD ADHERENCE: 2 Q/ 2024	<u>1</u> Y

CONSTRUCTION NOTES:

UNLESS OTHERWISE SPECIFIED ON THE WORKING DRAWING WHICH FORMS A PART OF THE SPECIFICATION, THE CONTRACTOR/DEVELOPER SHALL

SOUTHERN CALIFORNIA EDISON COMPANY HAS ATTEMPTED TO CORRECTLY SHOW ALL EXISTING UTILITIES AND SUBSTRUCTURES IN THE VICINITY OF THE WORK, BUT DOES NOT GUARANTEE THERE ARE NO OTHER SUBSTRUCTURES IN THE AREA. FAILURE OF SCE TO SHOW ALL SUBSTRUCTURES IN THEIR CORRECT LOCATION WILL NOT BE A BASIS FOR A CLAIM FOR EXTRA WORK, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES TO SUBSTRUCTURES WHETHER SHOWN OR NOT

1. FOR GENERAL SPECIFICATIONS SEE UGS GI 001. CONDUIT:

a. MINIMUM COVER IN STREET OR PARKWAY IS 30" BELOW GUTTER GRADE, UNLESS NOTED OTHERWISE. b. MINIMUM COVER ON PRIVATE PROPERTY IS 30" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE.

. CONTRACTOR IS TO FURNISH AND INSTALL APPROVED CONDUIT TO EDISON SPECIFICATIONS PER UGS CD 100.1, 110 AND 120. d. FOR THE TYPE OF CONDUIT FOR THIS JOB, SEE UGS CD 110.1. e. INSTALL ALL RISERS PER UGS CD 160, 161, 162 AND 170.
f. CAP ALL MAINLINE CONDUITS PER UGS CD 148 AND SERVICE CONDUITS PER UGS CD 150.

g. INSTALL BLANK CONDUIT PLUGS IN ALL CONDUITS TERMINATING INTO VAULTS, MANHOLE'S, PMH'S, SOE'S & ALL CAP LOCATIONS, PER UGS CD h. INSTALL PULL ROPE IN ALL CONDUIT RUNS. PULL ROPE TO BE AT LEAST 3/8" POLYPROPYLENE ROPE, BRAIDED OR TWISTED. FOR

SPECIFICATIONS, APPROVED MAKES, AND SUPPLIERS, SEE UGS GI 040.

i. ALL CONDUIT MUST BE MANDRELED WITH THE APPROVED MANDREL UGS CD 197.

3. CONDUIT RADIUS REQUIREMENTS: a. THE MINIMUM RADIUS FOR BENDS ARE:

36" FOR CONDUITS 3" IN DIAMETER OR SMALLER 48" FOR CONDUITS 4" AND 5" IN DIAMETER

60" FOR 6" DIAMETER CONDUIT b. THE MINIMUM RADIUS FOR ALL SWEEPS OF ALL MAINLINE CONDUITS IS 12'-6" (UNLESS NOTED OTHERWISE).

a. WORK AREA SHALL BE CLEARED AND ROUGH GRADED TO WITHIN FOUR INCHES OF FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT b. ALL EXCAVATIONS SHALL BE IN ACCORDANCE WITH THE CALIFORNIA STATE CONSTRUCTION SAFETY ORDERS (WHEN APPLICABLE), EDISON

SPECIFICATIONS, AND ALL GOVERNING LOCAL ORDINANCES.

c. EACH TRENCH TO BE A UNIFORM DEPTH BELOW FINAL GRADE PRIOR TO INSTALLATION OF EDISON CONDUIT OR STRUCTURES.

d. BACKFILL SHALL BE PROVIDED BY THE CONTRACTOR FOR ALL EXCAVATIONS AND SHALL INCLUDE CRUSHED ROCK, CONCRETE, AND/OR IMPORTED BACKFILL, WHEN REQUIRED.

e. BACKFILL WITH A MINIMUM OF ONE SACK PER YARD SAND CEMENT SLURRY AROUND AND OVER VAULTS AND MANHOLES PER UGS GI 030,

SECTION 6.4 AND AROUND PMH'S WITHIN ONE FOOT OF FINISHED GRADE, PER UGS SS 590.1. f. BACKFILL, PER EDISON SPECIFICATIONS, SHALL IMMEDIATELY FOLLOW CONDUIT OR SUBSTRUCTURE INSTALLATION. AT NO TIME SHALL CONDUIT g. NO ROCKS ARE ALLOWED WITHIN 12 INCHES OF DIRECT-BURIED CABLES OR ANY CONDUIT WITHOUT CONCRETE ENCASEMENT. NATIVE BACKFILL

CAPABLE OF PASSING THROUGH A ONE-HALF INCH MESH SCREEN SHALL BE CONSIDERED TO BE "ROCK FREE". IF EXISTING BACKFILL DOES NOT PASS THROUGH A 1/2" SCREEN, PLACE IMPORTED SAND 3" BELOW AND 12" ABOVE EDISON CABLES. AFTER THIS POINT, NO ROCKS LARGER THAN 12" DIAMETER ARE PERMITTED. LARGER THAN 12 DIAMETER ARE PERMITTED.

N. ALL BACKFILL SHALL BE COMPACTED TO MEET OR EXCEED LOCAL ORDINANCES OR OTHER REQUIREMENTS. IT SHALL BE PLACED IN A MANNER THAT WILL NOT DAMAGE THE CONDUIT OR SUBSTRUCTURE OR ALLOW FUTURE SUBSIDENCE OF THE TRENCH OR STRUCTURES.

REPAVING, WHERE REQUIRED, SHALL BE PLACED IN SUCH A MANNER THAT INTERFERENCE WITH TRAFFIC, INCLUDING PEDESTRIAN TRAFFIC, WILL BE KEPT TO A MINIMUM. THE CONTRACTOR SHALL ESTABLISH A PROGRAM OF REPAVING ACCEPTABLE TO THE MUNICIPALITY, COUNTY, OR

OTHER AUTHORITY HAVING JURISDICTION AND WHICH IS ACCEPTABLE TO EDISON. a. ALL SUBSTRUCTURES SHALL BE CONSTRUCTED OR INSTALLED TO EDISON SPECIFICATIONS.
b. INSTALL PROTECTION BARRIERS PER UGS MS 830 WHEN REQUIRED IN AREAS EXPOSED TO TRAFFIC, PER EDISON INSPECTOR.
c. ALL CONDUIT LINES AND CONCRETE FLOORED SUBSTRUCTURES SHALL BE WATER TIGHT.

d. ALL GROUNDING MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

WHEN REQUIRED, RETAINING WALLS SHALL BE PROVIDED BY THE DEVELOPER. WALLS ARE REQUIRED WHEREVER GRADE RISES MORE THAN 18 INCHES ABOVE THE STRUCTURE OR 24" ABOVE THE PAD SURFACE AT A DISTANCE OF 5 FEET FROM THE SAME, OR IN AREAS SUBJECT TO EROSION. DESIGN AND INSTALLATION MUST COMPLY WITH LOCAL BUILDING ORDINANCES. REFER TO EDISON INSPECTOR FOR TYPICAL SPACE

ALL PERMITS NECESSARY FOR EXCAVATION SHALL BE PROVIDED BY THE CONTRACTOR/DEVELOPER.

HEAVY TRUCK ACCESS SHALL BE MAINTAINED TO EQUIPMENT LOCATIONS. STRUCTURES MUST BE CLEAR OF ALL APPURTENANCES THAT WOULD OBSTRUCT THE LOADING OR UNLOADING OF EQUIPMENT

a. METERS AND SERVICES SHALL COMPLY WITH EDISON ELECTRICAL SERVICES REQUIREMENTS. b. WIRING MUST BE IN ACCORDANCE WITH APPLICABLE LOCAL ORDINANCES AND APPROVED BY LOCAL INSPECTION AUTHORITIES.

a. THE LOCATION OF EXCAVATIONS AND STRUCTURES FOR EDISON SHALL BE AS SHOWN ON THE WORKING DRAWING. NO DEVIATION FROM THE PLANNED LOCATIONS WILL BE PERMITTED UNLESS APPROVED BY THE EDISON INSPECTOR. SEE UGS GI 001, SECTION 2.2. b. ACTUAL LOCATION OF OBSTRUCTIONS, STORM DRAINS, AND/OR OTHER FOREIGN UTILITIES TO BE THE RESPONSIBILITY OF THE CONTRACTOR.

12.CONTRACTOR IS TO VERIFY LOCATION AND WIDTHS OF ALL SIDEWALKS AND DRIVEWAYS PRIOR TO STREET LIGHT INSTALLATION. SEE UGS CD 175.1, UGS CD 175.2 AND UGS CD 175.3.

SURVEYING OF STREET IMPROVEMENTS, PROPERTY CORNERS, LOT LINES, FINISHED GRADE, ETC., NECESSARY FOR THE INSTALLATION OF UNDERGROUND FACILITIES MUST BE COMPLETED AND MARKERS OR STAKES PLACED PRIOR TO THE START OF THE INSTALLATION. IN ADDITION, DEVELOPER SHALL MAINTAIN THE MARKERS DURING THE INSTALLATION AND INSPECTION BY EDISON. GRADE AND PROPERTY LINE STAKES MUST SHOW ANY OFFSET MEASUREMENTS.

THE DEVELOPER SHALL PROVIDE SUPERVISION OVER AND COORDINATION AMONG THE VARIOUS CONTRACTORS WORKING WITHIN THE DEVELOPMENT IN ORDER TO PREVENT DAMAGE TO EDISON FACILITIES. HE IS RESPONSIBLE FOR THE COST OF REPAIRS, REPLACEMENT, RELOCATION, OR OTHER CORRECTIONS TO EDISON FACILITIES MADE NECESSARY BY HIS FAILURE TO PROVIDE SUPERVISION OR TO OTHERWISE

THE DRAWING PREPARED FOR THIS JOB MAY ALSO COVER THE FACILITIES TO BE INSTALLED FOR THE TELEPHONE COMPANY AND/OR OTHER

UTILITY. ANY QUESTIONS CONCERNING DETAILS OF THEIR INSTALLATION SHOULD BE REFERRED TO THE COMPANY CONCERNE

DEVELOPER IS TO DEED TO THE EDISON COMPANY ALL STRUCTURES SHOWN HEREON EXCEPT THOSE SHOWN AS CUSTOMER OWNED.

17. WARRANTY: APPLICANTS EXPRESSLY REPRESENT AND WARRANT THAT ALL WORK PERFORMED AND ALL MATERIAL USED IN MEETING APPLICANTS' OBLIGATIONS HEREIN ARE FREE FROM DEFECTS IN WORKMANSHIP AND ARE IN CONFORMITY WITH SOUTHERN CALIFORNIA FDISON COMPANY'S REQUIREMENTS. THIS WARRANTY SHALL COMMENCE UPON RECEIPT BY APPLICANTS OF COMPANY'S FINAL ACCEPTANCE AND SHALL EXPIRE ONE YEAR FROM THAT DATE. APPLICANTS AGREE TO PROMPTLY CORRECT TO THE COMPANY'S SATISFACTION AND THAT OF ANY GOVERNMENTAL AGENCY HAVING JURISDICTION AND AT APPLICANT'S EXPENSE ANY BREACH OF THIS WARRANTY WHICH MAY BECOME APPARENT THROUGH INSPECTION OR OPERATION OF UNDERGROUND ELECTRIC SYSTEM BY COMPANY DURING THIS WARRANTY PERIOD

INSPECTION IS REQUIRED DURING THE CONSTRUCTION PERIOD. A 48 HOUR ADVANCE NOTICE OF INTENT TO START CONSTRUCTION IS REQUIRED FROM THE CONTRACTOR TO THE SOUTHERN CALIFORNIA EDISON COMPANY. STANDARDS OF EDISON CONSTRUCTION REQUIREMENTS ARE AVAILABLE UPON REQUEST.

DUCT AND STRUCTURE INSPECTOR: JAMES BARTELS CABLING CONSTRUCTION COORDINATOR:

PHONE: 951-219-3856 PHONE:

THIS PLAN APPROVED AS TO LOCATION AND TYPE OF ELECTRIC SUBSTRUCTURES DEVELOPER: ADDRESS: TELEPHONE: DEVELOPER'S SIGNATURE DATE DWG./REV. ORIGINAL REV. REV. REV. CHANGES IN THESE PLANS WILL REQUIRE AN ADDITIONAL 3 TO 4 WEEKS AND CUSTOMER WILL BE CHARGED IN ADVANCE

UNDERGROUND SERVICE ALERT Contact USA Dial 811 or 800-422-4133 www.digalert.org/contact FOR UNDERGROUND LOCATING TWO WORKING DAYS BEFORE YOU DIG

NOT FOR CONSTRUCTION

FOR REQUESTED CHANGES.

DATE	REVISION DESCRIPTION	APPROVED	DRAWN	CHECKED	DIST	RICT — MENIF	EE	PROJ. PHONE		CATON, BRIA		PLANNER CATON, BRIAN V PHONE	DESIGNER CATON, BRIAN	1 M
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D91: 03/22/24

PRIMARY SURFACE OR SEMI BURIED STRUCTURE.

