



**Notice of Regular Meeting**  
**Oceano Community Services District - Board of Directors Agenda**  
**WEDNESDAY, SEPTEMBER 27, 2023 – 6:00 P.M.**  
**Oceano Community Services District Board Room**  
**1655 Front Street Oceano, CA**

All items on the agenda, including information items, may be deliberated. Any member of the public with an interest in one of these items should review the background material and request information on the possible action that could be taken.

All persons desiring to speak during any Public Comment period are asked to fill out a "Board Appearance Form" to submit to the Board Secretary prior to the start of the meeting. Each individual speaker is limited to a presentation time of THREE (3) minutes per item. Persons wishing to speak on more than one item shall limit their remarks to a total of SIX (6) minutes. This time may be allowed between items in one-minute increments up to three minutes. Time limits may not be yielded to or shared with other speakers.

1. CALL TO ORDER
2. ROLL CALL
3. FLAG SALUTE
4. AGENDA REVIEW
5. PUBLIC COMMENT ON MATTERS NOT ON THE AGENDA

*This public comment period provides an opportunity for members of the public to address the Board on matters of interest within the jurisdiction of the District that are not listed on the agenda. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.*

6. SPECIAL PRESENTATIONS & REPORTS:

A. STAFF REPORTS:

- i. Sheriff's South Station - Commander Keith Scott
- ii. FCFA Operations - Chief Steve Lieberman
- iii. Operations – Utility System Manager Tony Marraccino
- iv. OCSD General Manager – Will Clemens

B. BOARD OF DIRECTORS AND OUTSIDE COMMITTEE REPORTS:

- i. President Villa
- ii. Vice President Gibson
- iii. Director Austin
- iv. Director Joyce-Suneson
- v. Director Varni

C. PUBLIC COMMENT ON SPECIAL PRESENTATIONS AND REPORTS:

*This public comment period provides an opportunity for members of the public to address the Board on matters discussed during Special Presentations and Reports. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.*

7. CONSENT AGENDA ITEMS:

**Public comment** Members of the public wishing to speak on consent agenda items may do so when recognized by the Presiding Officer. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.

- A. Review of the Minutes for the Special Meeting held on September 6, 2023
- B. Review of the Minutes for the Regular Meeting held on September 13, 2023

- C. Review of Cash Disbursements
- D. Adoption of Plans and Specifications and Authorization of Advertisement for Construction Bids for Electric Vehicle Charger Installation Project (Contract No. 2023-02)

**8. BUSINESS ITEMS:**

**Public comment** Members of the public wishing to speak on business items may do so when recognized by the Presiding Officer. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.

- A. Discussion and consideration of revisions to the bylaws regarding the Oceano Community Services District Board of Directors decision making processes
- B. Continuation of Item 8A from the Regular Meeting of September 13, 2023 - Discussion and consideration of OPARC duties, governing policies and procedures, and committee membership, and proposed resolution and bylaws concerning the same

**9. HEARING ITEMS:**

**Public comment** Members of the public wishing to speak on hearing items may do so when recognized by the Presiding Officer. If a member of the public wishes to speak at this time, Public comment is limited to three (3) minutes.

**10. RECEIVED WRITTEN COMMUNICATIONS:**

**11. LATE RECEIVED WRITTEN COMMUNICATIONS:**

**12. FUTURE AGENDA ITEMS:**

**13. FUTURE HEARING ITEMS:**

**14. CLOSED SESSION:**

**15. ADJOURNMENT:**

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This agenda was prepared and posted pursuant to Government Code Section 54954.2. The agenda is posted at the Oceano Community Services District, 1655 Front Street, Oceano, CA. Agenda and reports can be accessed and downloaded from the Oceano Community Services District website at [www.oceanocsd.org](http://www.oceanocsd.org)

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**ASSISTANCE FOR THE DISABLED** If you are disabled in any way and need accommodation to participate in the Board meeting, please call the Clerk of the Board at (805) 481-6730 for assistance at least three (3) working days prior to the meeting so necessary arrangements can be made.



**Oceano Community Services District**  
**Summary Minutes**  
**Special Meeting Wednesday, September 6, 2023 – 2:00 P.M.**  
**Location: OCSD BOARD ROOM**

1. **CALL TO ORDER:** Called to order at approximately 2:00pm
2. **ROLL CALL:** Board members present: Director Austin, Director Varni, Director Joyce-Suneson, Vice President Gibson and President Villa.  
 Staff present: Carey Casciola, Business & Accounting Manager; Chase Martin and Daniel Cheung, Legal Counsel.
3. **FLAG SALUTE:** Led by President Villa.

4. **PUBLIC COMMENT FOR ITEMS ON THE AGENDA:**

April Dury	In support of public input at Board meetings.
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5. BUSINESS ITEMS:	ACTION:
<p>Discussion and consideration of authorization for Oceano Parks and Recreation Committee Grant Application.</p>	<p>After an opportunity for public comment, a presentation by Wanda Monson and Board discussion, Director Gibson made a motion to authorize Director Varni to work with Director Joyce-Suneson and other community members to prepare this grant application for consideration by the Board of Directors and to direct staff to immediately provide the grant application template and all other necessary info with a second from Director Varni and a 5-0 roll call vote.</p> <p>Public Comment: None</p>

5. **CLOSED SESSION:**

President Villa made a motion to adjourn to closed session approximately at 2:20pm with a second from Director Austin and a 5-0 roll call vote.

- A. **Pursuant to Government Code §54956.9 (d)(4):** Conference with District Counsel regarding initiation of litigation. Number of cases: one (1).
- B. **Pursuant to Government Code §54957:** Performance evaluation – General Manager

The board returned from closed session approximately at 3:16pm.

No reportable action out of closed session.

6. **ADJOURNMENT:** Director Varni made a motion to adjourn approximately at 3:17pm with a second from President Villa and a roll call vote of 4-1, Director Austin absent.



**Oceano Community Services District**  
**Summary Minutes**  
**Regular Meeting Wednesday, September 13, 2023 – 6:00 P.M.**  
**Location: OCSD BOARD ROOM**

1. **CALL TO ORDER:** Called at approximately 6:00 p.m. by President Villa
2. **ROLL CALL:** Board members present: President Villa, Vice President Gibson, Director Austin, Director Joyce-Suneson and Director Varni.  
Staff present: Will Clemens, General Manager, Carey Casciola, Business & Accounting Manager and Daniel Cheung, Legal Counsel.
3. **FLAG SALUTE:** Led by President Villa
4. **AGENDA REVIEW:** Agenda accepted as presented with a motion by Director Austin with a second from Vice President Gibson and a 5-0 roll call.
5. **PUBLIC COMMENT ON MATTERS NOT ON THE AGENDA:**

April Dury	Requested reports out of closed session items.
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6. **SPECIAL PRESENTATIONS & REPORTS**

**A. Presentation by South San Luis Obispo County Sanitation District Staff:** Jeremy Ghent, District Administrator presented.  
No public comment.

**B. STAFF REPORTS:**

i. **Sheriff's South Station** – Commander Keith Scott (Absent) Report provided by Sergeant John Penaflor, August 2023 Stats:  
451 Calls for service (4 Assault/Battery; 57 Disturbance; 5 Thefts; 2 Mail thefts)  
83 Traffic Enforcement Stops conducted  
22 Arrests (Domestic Violence, drugs and warrants)  
CAT (Community Action Team) is working with RV occupants to find housing.

ii. **Five Cities Fire Authority** – Steve Lieberman, Fire Chief – Absent

iii. **Operations** - Utility Systems Manager - Tony Marraccino  
Lopez is 97.1% full (47,958 AF); We are continuing to take Lopez water only and not pumping.  
0 SSOs for the month of August.  
Continuing with weekly and monthly samples.  
9 work orders; 28 USAs; 9 service calls; 2 after-hours call outs.  
A meter vault on Hwy 1 needed to be relocated and have a grade adjustment done due to the overlay project.  
2 manholes require maintenance (vegetation clearance and base added).  
Preventative maintenance on Well #8 completed.  
Hydrant maintenance is complete.  
Sewer jetting on Hwy 1 is completed – this is due to the overlay project and lack of access once it begins.  
Continuing with valve turning and meter replacements.  
4 District back flow assembly devices were tested. 1 failed and will be rebuilt.  
Meter reading this month.  
FOG program is completed for the year.  
New truck was taken to Scelzi in Fresno to have the truck bed installed – estimated to take 2-3 months.

**iv. OCSD General Manager – Will Clemens**

Attended the California Special District Association (CSDA) Annual Conference in Monterey and was invited to present on the California Uniform Public Construction Costs Accounting Act. Continues to be the representative for all Special Districts throughout the State of California on that commission that oversees the act. It relates to bidding of public works projects. Many Special Districts were unaware of the act and benefits.

State Water Subcontractors Advisory Committee meeting last Friday – the County Board of Supervisors took action to appoint the General Manager and Director Varni as the alternate on that committee. Appointed as Chairman of the committee.

The County Board of Supervisors provided direction to County staff to create a plan for service for emergency and fire in Oceano by contracting back with the Five Cities Fire Authority for the same level of service currently provided.

**v. OCSD Legal Counsel – Chase Martin (Absent); Report provided by Daniel Cheung**

Provided a report on legal counsel fees breakdown for the past 3 months:

25% billed conferences with conferences with Directors.

20% billed conferences with conferences with staff.

15% development of strategies and review of statues and cases.

40% attendance at regular and special board meetings.

Public inquiries are not billed as Legal Counsel serves the Board.

**PUBLIC COMMENT ON SPECIAL PRESENTATIONS AND REPORTS:**

April Dury	Provided comment regarding legal counsel costs and the General Managers report. Requested a report on WRAC.
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**C. BOARD OF DIRECTORS AND OUTSIDE COMMITTEE REPORTS:**

- i. **President Villa** – Reported on the 9/12/2023 County Board of Supervisors meeting regarding emergency and fire services in Oceano.
- ii. **Vice President Gibson** – None
- iii. **Director Austin** – the 9/6/2023 South San Luis Obispo County Sanitation District meeting.
- iv. **Director Joyce-Suneson** – Reported on attending the CSDA Annual Conference.
- v. **Director Varni** – Reported on attending the CSDA Annual Conference.

**D. PUBLIC COMMENT ON SPECIAL PRESENTATIONS AND REPORTS:**

April Dury	Expressed concern regarding the condition of the Oceano fire station.
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<b>7. CONSENT AGENDA:</b>	<b>ACTION:</b>
a) Review the of Minutes for the Special Meeting held on August 23, 2023	Director Varni requested that 7E be pulled for separate consideration.
b) Review the of Minutes for the Regular Meeting held on August 23, 2023	After an opportunity for public comment, Board and staff discussion, Director Varni made a motion to approve consent agenda items 7A-7D, with a second from President Villa a 5-0 roll call vote.
c) Review of cash disbursements	
d) Consideration of a recommendation to approve a proposal and professional services agreement with GSI Water Solutions Inc. to prepare the 2023 Annual Report for the Northern Cities Management Area in the amount of \$41,297 plus contingencies of \$3,717 for a total contract amount of \$45,014.	Public Comment: April Dury –Question regarding professional services.
e) Recommendation to Cancel the Regular Meetings of November 25, 2023, and December 27, 2023	

<b>7E. CONSENT AGENDA:</b>	<b>ACTION:</b>
Recommendation to Cancel the Regular Meetings of November 25, 2023, and December 27, 2023	After an opportunity for public comment, Board and staff discussion, Director Austin made a motion to approve staff recommendations with a second from Vice President Gibson a 4-1 roll call vote. Director Varni dissented.  Public Comment: None

<b>8A. BUSINESS ITEMS:</b>	<b>ACTION:</b>
Discussion and consideration of the Parks and Recreation Committee of the Oceano Community Services District (“OPARC”) duties, governing policies and procedures, and committee membership, and proposed resolution and bylaws concerning the same.	After an opportunity for public comment, Board and staff discussion, the item was continued and will be brought to OPARC and back to the Board of Directors.  Public Comment: April Dury – Provided feedback on committee membership.

The Board called for a recess at 7:24pm - President Villa exited.  
Meeting reconvened at 7:26pm.

**9. HEARING ITEMS:** None

**10. RECEIVED WRITTEN COMMUNICATIONS:** Correspondence from Julie Tacker

**11. LATE RECEIVED WRITTEN COMMUNICATIONS:** None

**12. FUTURE AGENDA ITEMS:**

Director Varni made a motion to call a special meeting for September 21, 2023, at 3:00PM with a second from Director Joyce-Suneson and a 4-0 roll call vote, President Villa absent.  
No public comment.

Director Varni made a motion to place an item to clarify and possible action to bylaw 2.4(c) with a second from Director Joyce-Suneson.

Vice President Gibson made a motion to schedule a presentation of the Brown Act in light of the letter to the City of Pismo Beach regarding closed session with a second from Director Austin.

Director Joyce-Suneson made a motion to schedule the review of the closed session deliberations from 2022 for the Special Meeting on September 21, 2023, with a second from Director Varni.

Director Varni made a motion to place a performance review of legal counsel with an option for contract modifications on closed session for the Special Meeting on September 21, 2023, with a second from Director Joyce-Suneson.

Director Varni made a motion to place more decision-making processes under Business Items for the next scheduled regular board meeting with a second from Director Joyce-Suneson.

Director Varni made a motion to place the continuation of the parks and recreation resolution for the next scheduled regular board meeting with a second from Director Joyce-Suneson.

Director Varni made a motion to place potential litigation on a future closed session item with a second from Director Joyce-Suneson.

13. **FUTURE HEARING ITEMS:** None
14. **CLOSED SESSION ITEMS:** None
15. **ADJOURNMENT:** Director Austin made a motion to adjourn the meeting at 8:05pm with a second from Director Joyce-Suneson and a 4-0 roll call vote, President Villa absent.



# Oceano Community Services District

1655 Front Street, P.O. Box 599, Oceano, CA 93475

PHONE(805) 481-6730 FAX (805) 481-6836

**Date:** September 27, 2023

**To:** Board of Directors

**From:** Carey Casciola, Business and Accounting Manager

**Subject:** Agenda Item #7(C): Recommendation to Review Cash Disbursements

**Recommendation**

It is recommended that your board review the attached cash disbursements:

**Discussion**

The following is a summary of the attached cash disbursements:

Description	Check Sequence	Amounts
<b>Disbursements:</b>	60448 - 60460	
Regular Payable Register - paid 9/18/2023	60448 - 60459	\$ 10,385.59
Subtotal:		\$ 10,385.59
<b>Reoccurring Payments for Board Review (authorized by Resolution 2020-06):</b>		
Payroll Disbursements - PPE 09/09/2023	N/A	\$ 35,042.83
Reoccurring Utility Disbursements - paid 09/18/2023	60460	\$ 423.96
Subtotal:		\$ 35,466.79
Grand Total:		\$ 45,852.38

**Other Agency Involvement**

N/A

**Other Financial Considerations**

Amounts are within the authorized Fund level budgets.

**Results**

The Board's review of cash disbursements is an integral component of the District's system of internal controls and promotes a well governed community.



COMPANY: 99 - POOLED CASH FUND  
ACCOUNT: 1-1001-000 POOLED CASH OPERATING  
TYPE: All  
STATUS: All  
FOLIO: All

CHECK DATE: 0/00/0000 THRU 99/99/9999  
CLEAR DATE: 0/00/0000 THRU 99/99/9999  
STATEMENT: 0/00/0000 THRU 99/99/9999  
VOIDED DATE: 0/00/0000 THRU 99/99/9999  
AMOUNT: 0.00 THRU 999,999,999.99  
CHECK NUMBER: 060448 THRU 060459

ACCOUNT	--DATE--	--TYPE--	NUMBER	-----DESCRIPTION-----	----AMOUNT---	STATUS	FOLIO	CLEAR DATE
CHECK:	-----							
1-1001-000	9/18/2023	CHECK	060448	ARAMARK	102.52CR	OUTSTND	A	0/00/0000 01 5-4100-100 CLOTHING
1-1001-000	9/18/2023	CHECK	060449	BURDINE PRINTING	77.27CR	OUTSTND	A	0/00/0000 01 5-4100-200 OFFICE EXPENSE
1-1001-000	9/18/2023	CHECK	060450	CANNON	1,067.50CR	OUTSTND	A	0/00/0000 02 5-4400-361 CIP - PROP1: STORMWATER
1-1001-000	9/18/2023	CHECK	060451	CARQUEST AUTO PARTS	63.42CR	OUTSTND	A	0/00/0000 12 5-4350-171 MAINTENANCE: VEHICLES
1-1001-000	9/18/2023	CHECK	060452	CLEMENS, WILL	1,575.90CR	OUTSTND	A	0/00/0000 01 5-4100-285 CLASSES/SEMINARS/TRAININ
1-1001-000	9/18/2023	CHECK	060453	GROUNDWATER SOLUTIONS INC, DBA	4,768.05CR	OUTSTND	A	0/00/0000 02 5-4400-380 NCMA TEC
1-1001-000	9/18/2023	CHECK	060454	ICONIX WATERWORKS (US) INC.	240.24CR	OUTSTND	A	0/00/0000 02 5-4400-175 SYSTEM PARTS/OPERATING S
1-1001-000	9/18/2023	CHECK	060455	JOYCE-SUNESON, BEVERLY	465.98CR	OUTSTND	A	0/00/0000 01 5-4100-285 CLASSES/SEMINARS/TRAININ
1-1001-000	9/18/2023	CHECK	060456	MINER'S ACE HARDWARE, INC.	48.47CR	OUTSTND	A	02 5-4400-163 MAINT: STRUCTURES/IMPRVS 16.76CR 02 5-4400-175 SYSTEM PARTS/OPERATING S 32.62 03 5-4500-175 SYSTEM PARTS/OPERATING S 32.61
1-1001-000	9/18/2023	CHECK	060457	TAMIYASU, SMITH, HORN & BRAUN	274.50CR	OUTSTND	A	0/00/0000 01 5-4100-220 PROFESSIONAL SERVICES
1-1001-000	9/18/2023	CHECK	060458	HD SUPPLY, INC. DBA USABLUEBOO	75.03CR	OUTSTND	A	0/00/0000 02 5-4400-175 SYSTEM PARTS/OPERATING S
1-1001-000	9/18/2023	CHECK	060459	WATER SYSTEMS CONSULTING, INC.	1,626.71CR	OUTSTND	A	0/00/0000 02 5-4400-380 NCMA TEC
TOTALS FOR ACCOUNT 1-1001-0				CHECK TOTAL:	10,385.59CR			
				DEPOSIT TOTAL:	0.00			
				INTEREST TOTAL:	0.00			
				MISCELLANEOUS TOTAL:	0.00			
				SERVICE CHARGE TOTAL:	0.00			
				EFT TOTAL:	0.00			
				BANK-DRAFT TOTAL:	0.00			
TOTALS FOR POOLED CASH FUND				CHECK TOTAL:	10,385.59CR			
				DEPOSIT TOTAL:	0.00			
				INTEREST TOTAL:	0.00			
				MISCELLANEOUS TOTAL:	0.00			
				SERVICE CHARGE TOTAL:	0.00			
				EFT TOTAL:	0.00			
				BANK-DRAFT TOTAL:	0.00			

**Payroll Summary Report**  
**Board of Directors - Agenda Date September 27, 2023**

	(*)	
Gross Wages	8/26/2023	9/9/2023
Regular	\$29,565.47	\$29,584.39
Overtime Wages	\$581.44	\$419.52
Stand By	\$420.00	\$840.00
	<u>\$30,566.91</u>	<u>\$30,843.91</u>
Cell Phone Allowance	\$0.00	\$75.00
Total Wages	<u>\$30,566.91</u>	<u>\$30,918.91</u>
<b><u>Disbursements</u></b>		
Net Wages	\$23,535.93	\$24,515.90
State and Federal Agencies	\$5,588.47	\$5,499.01
CalPERS - Normal	\$4,874.26	\$4,874.26
SEIU - Union Fees	\$153.66	\$153.66
Total Disbursements processed with Payroll	<u>\$34,152.32</u>	<u>\$35,042.83</u>
Health (Disbursed with reoccurring bills)	\$6,483.63	\$0.00
Total District Payroll Related Costs	<u>\$40,635.95</u>	<u>\$35,042.83</u>

(\*) Previously reported in prior Board Meeting packet - provided for comparison.

COMPANY: 99 - POOLED CASH FUND  
 ACCOUNT: 1-1001-000 POOLED CASH OPERATING  
 TYPE: All  
 STATUS: All  
 FOLIO: All

CHECK DATE: 0/00/0000 THRU 99/99/9999  
 CLEAR DATE: 0/00/0000 THRU 99/99/9999  
 STATEMENT: 0/00/0000 THRU 99/99/9999  
 VOIDED DATE: 0/00/0000 THRU 99/99/9999  
 AMOUNT: 0.00 THRU 999,999,999.99  
 CHECK NUMBER: 060460 THRU 060460

ACCOUNT            --DATE--    --TYPE--    NUMBER    -----DESCRIPTION-----    ----AMOUNT---    STATUS    FOLIO    CLEAR DATE

CHECK: -----  
 1-1001-000    9/18/2023    CHECK    060460    DIGITAL WEST NETWORKS, INC.    423.96CR    OUTSTND    A    0/00/0000    01 5-4100-110 COMMUNICATIONS

TOTALS FOR ACCOUNT 1-1001-0

CHECK	TOTAL:	423.96CR
DEPOSIT	TOTAL:	0.00
INTEREST	TOTAL:	0.00
MISCELLANEOUS	TOTAL:	0.00
SERVICE CHARGE	TOTAL:	0.00
EFT	TOTAL:	0.00
BANK-DRAFT	TOTAL:	0.00

TOTALS FOR POOLED CASH FUND

CHECK	TOTAL:	423.96CR
DEPOSIT	TOTAL:	0.00
INTEREST	TOTAL:	0.00
MISCELLANEOUS	TOTAL:	0.00
SERVICE CHARGE	TOTAL:	0.00
EFT	TOTAL:	0.00
BANK-DRAFT	TOTAL:	0.00



# Oceano Community Services District

1655 Front Street, P.O. Box 599, Oceano, CA 93475

(805) 481-6730 FAX (805) 481-6836

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**Date:** September 27, 2023

**To:** Board of Directors

**From:** Will Clemens, General Manger

**Subject:** **Agenda Item #7(D):** Adoption of Plans and Specifications and Authorization of Advertisement for Construction Bids for Electric Vehicle Charger Installation Project (Contract No. 2023-02)

## Recommendation

It is recommended that the Board:

1. Adopt the Plans and Specifications for the Electric Vehicle Charger Installation Project (Contract No. 2023-02)
2. Authorize and direct the General Manager to:
  - a. Advertise for construction bids, provide proper notice inviting informal bids pursuant to Public Contract Code section 22034 (and any other applicable laws); and
  - b. To extend the bid opening date to a date deemed more appropriate by the General Manager so long as any such extension follows all applicable laws.

## Discussion

The District engaged Charged Futures to provide project management services, including planning, design and engineering, permitting, installation, and commissioning of electric vehicle charging stations on District owned properties. Two chargers will be installed at the District Water Yard for required future electric vehicles. Four chargers will be installed at both the District Offices and the Oceano Train Depot property that will be available for the public and/or employees to charge, for a fee.

Design is now complete, and all permits have been received to construct the Project. It is now necessary to initiate the bidding and construction phases of the Project. These efforts will be funded by grants/rebates and the District's facilities fund.

## Other Agency Involvement

The San Luis Obispo Air Pollution Control District and the California Energy Commission will provide grants/rebates for the Project.



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### Financial Considerations

Nearly the entire cost of the EV Chargers will be covered by grants/rebates through the San Luis Obispo Air Pollution Control District and the California Energy Commission. The following table illustrates the estimated construction costs for the Project.

Total Cost Estimate	Rebates	Local Match (Approximate)
<u>\$ 143,161</u>	<u>\$ 141,392</u>	<u>\$ 1,769</u>

The approved Facilities budget includes the funds necessary to complete the Project. The grant/rebate programs require that bids be in hand prior to award of the grant/rebates. Construction contracts will not be executed until the grant/rebates are secured.

### Results

Pursuing grant revenues and project implementation supports a well-governed, healthy, and livable community.

Attachments:

- Plans and Specifications

**GENERAL NOTES**

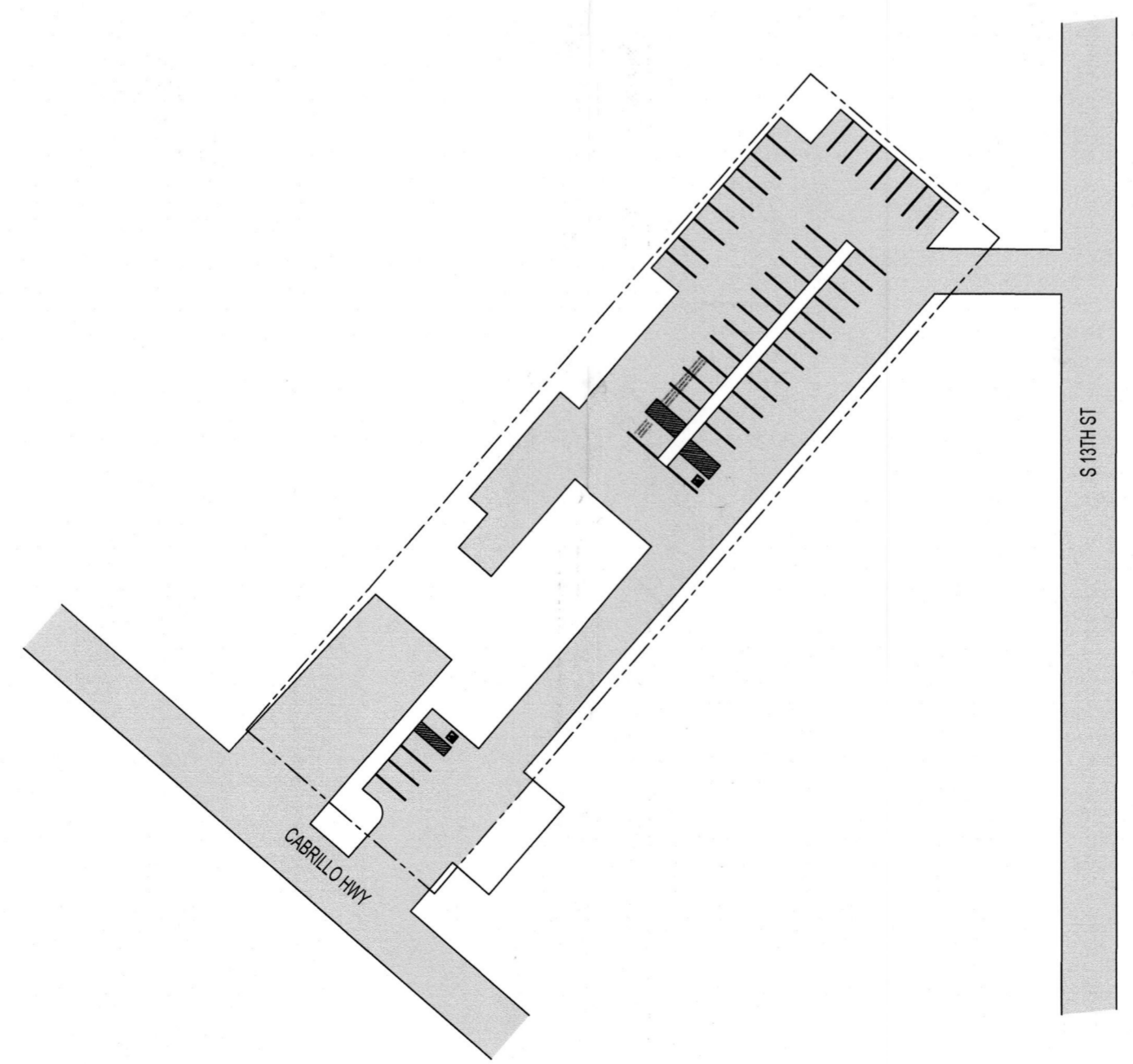
- 1.1.1 PROJECT NOTES:
- 1.1.2 THIS ELECTRIC VEHICLE CHARGING SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 625, ALL MANUFACTURER'S LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION (AHJ) APPLICABLE CODES.
- 1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND ELECTRIC VEHICLE CHARGING SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- 1.1.4 ALL ELECTRICAL MATERIALS, DEVICES, FITTINGS, AND ASSOCIATED EQUIPMENT SHALL BE LISTED FOR SUCH USE.
- 1.1.5 THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL COMPLY WITH NEC 625.15.
- 1.2.1 SCOPE OF WORK:
- 1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE VEHICLE CHARGING SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ON-SITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL VEHICLE CHARGING SYSTEM DETAILED IN THIS DOCUMENT.
- 1.3.1 GENERAL REQUIREMENTS
- 1.3.2 OVERCURRENT PROTECTION FOR FEEDERS AND BRANCH CIRCUITS SUPPLYING ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL COMPLY PER NEC 625.40.
- 1.3.3 DISCONNECTING MEANS PER NEC 625.42 ELECTRIC VEHICLE SUPPLY EQUIPMENT RATED MORE THAN 50 AMPERES OR MORE THAN 150 VOLTS TO GROUND, THE DISCONNECTING MEANS SHALL BE PROVIDED AND INSTALLED IN A READILY ACCESSIBLE LOCATION. THE DISCONNECTING MEANS SHALL BE LOCKABLE OPEN IN ACCORDANCE WITH 110.25.
- 1.3.4 LOCATION PER NEC 625.50 THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE LOCATED FOR DIRECT ELECTRICAL COUPLING OF THE EV CONNECTOR (CONDUCTIVE OR INDUCTIVE) TO THE ELECTRIC VEHICLE UNLESS SPECIFICALLY LISTED AND MARKED FOR THE LOCATION. THE COUPLING MEANS OF THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE STORED OR LOCATED AT A HEIGHT OF NOT LESS THAN 450 MM (18 IN.) ABOVE THE FLOOR LEVEL FOR INDOOR LOCATIONS AND 600 MM (24 IN.) ABOVE THE GRADE LEVEL FOR OUTDOOR LOCATIONS.
- 1.3.5 VENTILATION: THE VENTILATION REQUIREMENT FOR CHARGING AN ELECTRIC VEHICLE IN AN INDOOR ENCLOSED SPACE SHALL COMPLY PER NEC 625.52.
- 1.3.6 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.
- 1.3.11 PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.
- 1.3.12 ALL EQUIPMENT SHALL BE NEW, "UL" LISTED, AND LABELED.
- 1.3.14 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.
- 1.3.17 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.
- 1.3.20 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.
- 1.3.21 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.
- 1.3.23 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.
- 1.3.24 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.
- 1.3.25 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.
- 1.3.26 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 INDICATED ON THE DRAWINGS.
- 1.3.29 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.
- 1.3.31 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.
- 1.3.32 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.
- 1.3.33 THE CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 1.3.34 CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 1.3.37 THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE OWNER/CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 1.3.38 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.
- 1.3.40 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.
- 1.3.45 CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION AND PROVIDE EROSION AND SEDIMENT CONTROL MEASURES DURING
- 1.3.47 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.
- 1.3.48 THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 90 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 90 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.
- 1.3.49 THE CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- 1.3.50 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 1.3.51 THE CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF APPROVED PLANS WITH ALL REVISIONS, ADDENDA, MANUFACTURER'S EQUIPMENT INSTALLATION INSTRUCTIONS AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- 1.3.54 THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B:0 AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
- 1.3.55 ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 1.3.56 ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
- 1.3.59 THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 1.3.60 THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- 1.3.61 THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 1.3.62 SOUNDS ORIGINATING FROM THE CONSTRUCTION SITE, INCLUDING BUT NOT LIMITED TO 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.
- 1.3.63 PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- 1.3.65 PROVIDE RIVETED ON ENGRAVED PLASTIC NAMEPLATES (RED WITH WHITE LETTERS) FOR ALL MAJOR ELECTRICAL EQUIPMENT. ALL DEVICES MOUNTED BACK TO BACK ON THE FIRE RATED WALL SHALL BE MOUNTED WITH 24" MINIMUM HORIZONTAL OFFSET.

**NEW EV SYSTEM  
OCSD DISTRICT OFFICE**

1655 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-023



**01 AERIAL PHOTO**  
SCALE: NOT TO SCALE



**02 PLAT MAP**  
SCALE: NOT TO SCALE

**SYMBOL LEGEND**

- PROPERTY LINE
- CONDUIT
- CLEAR GROUND SPACE
- POLE WITH SIGN
- NORTH INDICATOR
- DETAIL INDICATOR

DISCLAIMER: PLEASE NOTE THAT THE ABBREVIATIONS, ANNOTATIONS, AND SYMBOLS LISTED ARE INTENDED TO ILLUSTRATE THOSE THAT ARE COMMONLY USED, NOT ALL ARE NECESSARILY UTILIZED WITHIN THIS SET OF DRAWINGS.

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
T-001	COVER PAGE
G-001	NOTES
A-101	SITE PLAN
A-102	ELECTRICAL PLAN
A-103	ELEVATION PLAN
E-601	LINE DIAGRAM
R-001	RESOURCE DOCUMENT

**PROJECT INFORMATION**

**OWNER**  
NAME: OCEANO COMMUNITY SERVICES DISTRICT  
PHONE: 5693755138  
E-MAIL:

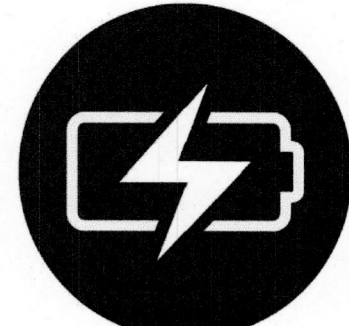
**PROJECT MANAGER**  
NAME:  
PHONE:

**CONTRACTOR**  
NAME: TBD  
PHONE:  
E-MAIL:

**AUTHORITIES HAVING JURISDICTION**  
BUILDING: COUNTY OF SAN LUIS OBISPO  
ZONING: COUNTY OF SAN LUIS OBISPO  
UTILITY: PG&E

**APPLICABLE CODES & STANDARDS**  
BUILDING: CBC 2022  
ELECTRICAL: CEC 2022  
FIRE: CFC 2022

**SCOPE OF WORK**  
SYSTEM SIZE: (2) FLO CORE+ DUAL PORT EV CHARGING STATION (LEVEL 2)



**CONTRACTOR**

CHARGED FUTURE

PHONE: 559-375-6138

ADDRESS:

LIC. NO.:

UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTORS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO COURT DAMAGES AND PROSECUTIONS.

COUNTY OF SLO PLANNING AND BUILDING  
REVIEWED FOR CODE COMPLIANCE  
By Rosano Esparza  
*Permit 2023-01985 Date: 9/01/23*  
This approval of these plans shall not permit violations of county or state laws. The County may revoke this permit or require corrections if they are in error. These approved plans shall be made available when inspections are requested. All changes must be approved.

**REVISION / RELEASE**

NO.	DESCRIPTION	DATE
Δ	AHJ COMMENTS	07.06.2023
Δ	AHJ COMMENTS	25.06.2023
Δ	AHJ COMMENTS	23.08.2023
Δ	CONTRACTOR COMMENTS	25.08.2023

**PROJECT**

NEW EV SYSTEM

**OCSD DISTRICT OFFICE**

1655 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-023

**ENGINEER OF RECORD**



**VECTOR ENGINEERS**  
REGISTERED PROFESSIONAL ENGINEER  
CIVIL  
STATE OF CALIFORNIA  
08/28/2023  
VSE Project Number: U1869.3970.231  
PAPER SIZE: 36" x 24" (ARCH D)

THE SCOPE OF WORK BY VECTOR STRUCTURAL ENGINEERING IS LIMITED TO THE DESIGN OF THE FOUNDATION AND ANCHORAGE OF THE EV CHARGER AND BOLLARD ONLY. MECHANICAL, ARCHITECTURAL, AND ALL OTHER NONSTRUCTURAL ASPECTS OF THE DESIGN ARE BY OTHERS. ELECTRICAL IS BY OTHERS UNLESS STAMPED BY DEAN LEVORSEN

SHEET TITLE: COVER PAGE

DATE: 04.14.2023

DESIGN BY: V.H.

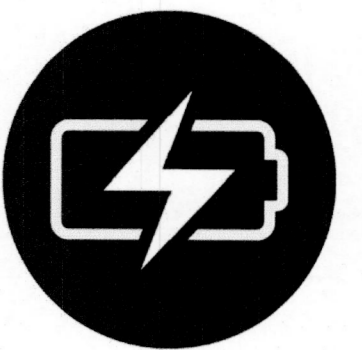
CHECKED BY: L.A.

SHEET NUMBER: T-001.00 (SHEET 1)



**GENERAL NOTES**

1. FIELD VERIFY ALL MEASUREMENTS
2. ITEMS BELOW MAY NOT BE ON THIS PAGE



**CONTRACTOR**

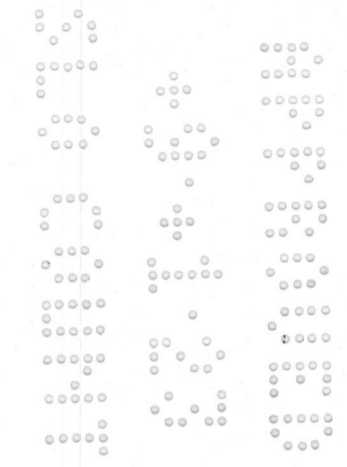
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PHONE: 559-375-5138

ADDRESS:

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△	AHJ COMMENTS	25.08.2023
△	AHJ COMMENTS	23.08.2023
△	CONTRACTOR COMMENTS	25.08.2023

**PROJECT**

NEW EV SYSTEM

**OCSO DISTRICT OFFICE**

1655 FRONT STREET  
OCEANO, CA 93422  
APN: 052-271-023

**ENGINEER OF RECORD**



631 W. GILMAN AVE. SUITE 101 OCEANO, CA 93422 PHONE: (805) 990-1775  
WWW.VECTORENG.COM



08/28/2023

VSE Project Number: U1869.3970.231

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:

SITE PLAN

DATE: 04.14.2023

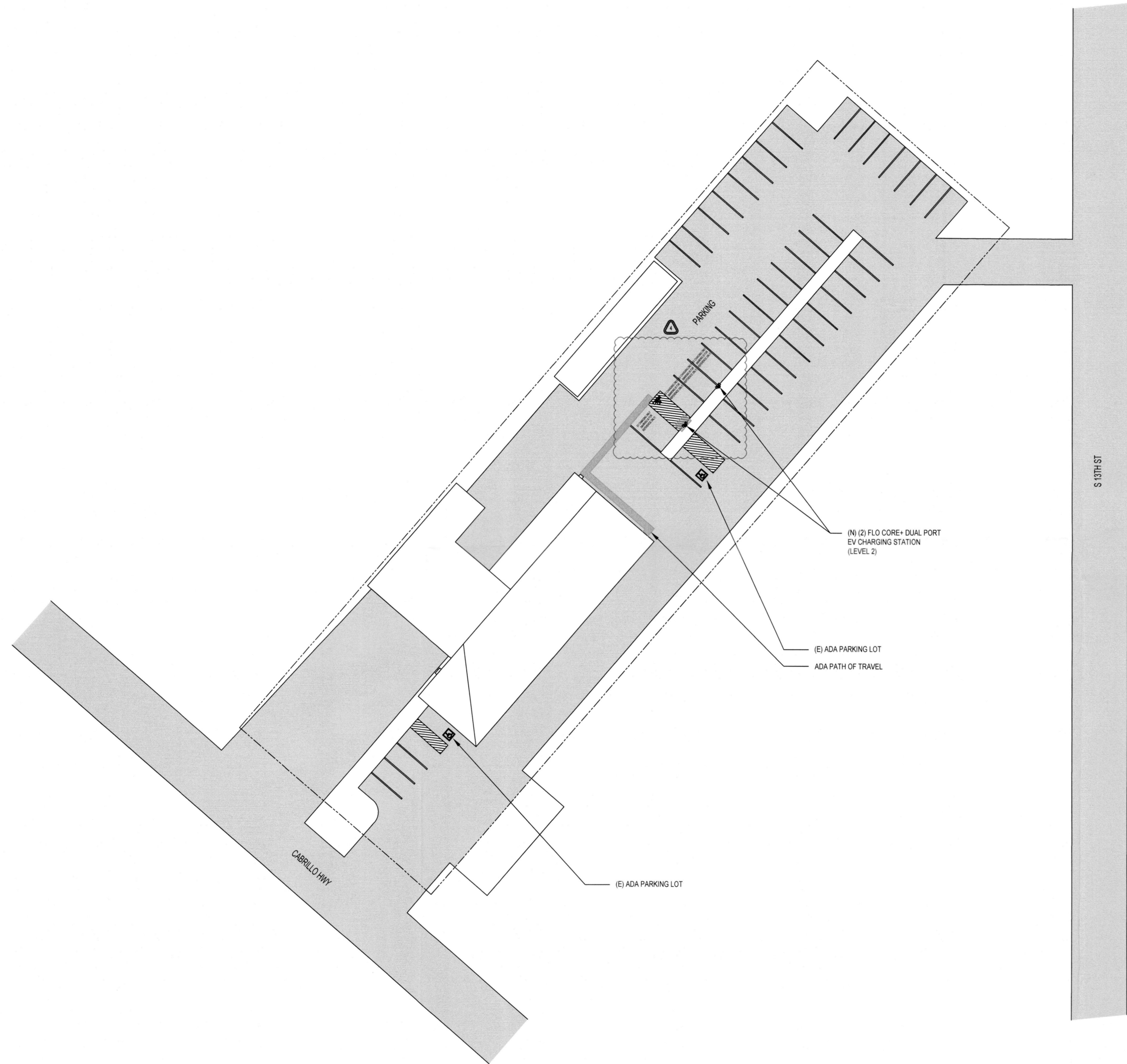
DESIGN BY: V.H.

CHECKED BY: L.A.

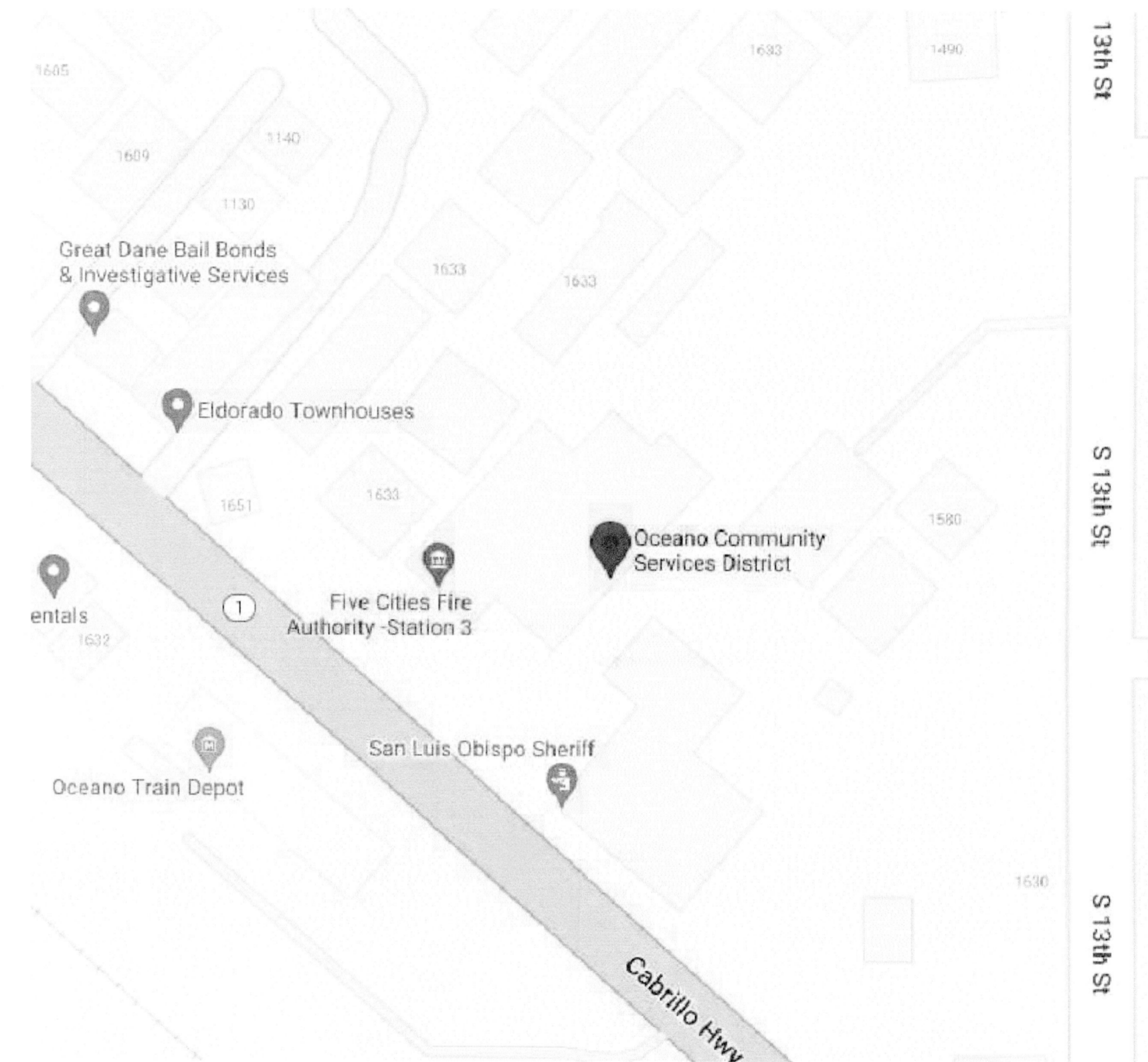
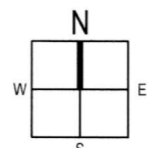
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A-101.00

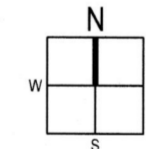
(SHEET 3)



**01 SITE PLAN**  
1/32" = 1'  
0 10' 32'

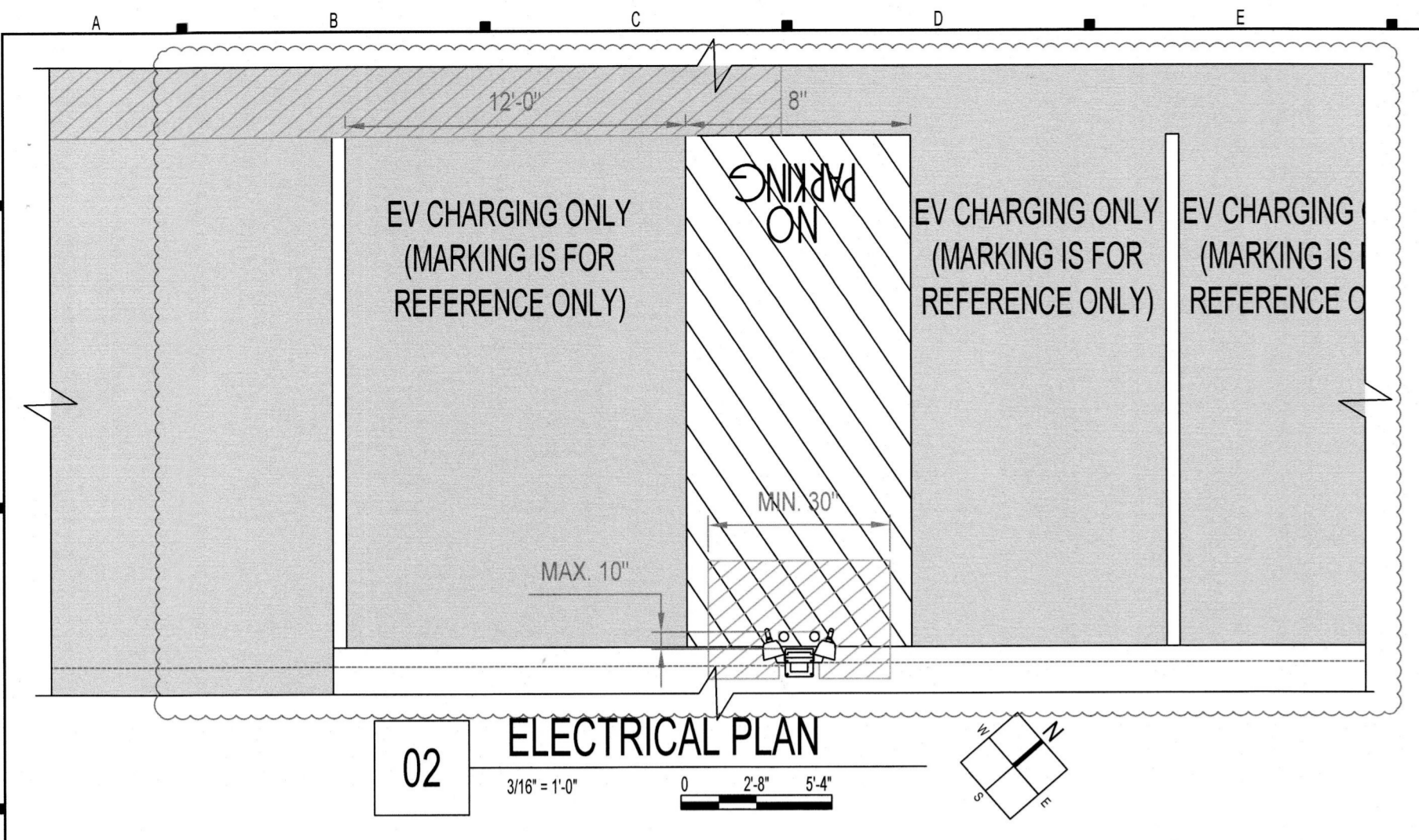


**02 VICINITY MAP**  
SCALE NOT TO SCALE



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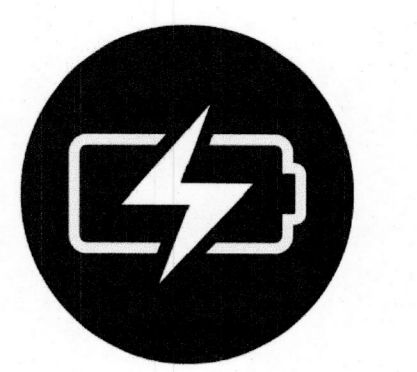




**ADA REQUIREMENTS**

ELEMENT	ADAABA 2004 ANSI A117.1 2003
NUMBER OF SPACES	4% OF PARKING SPACES, OR 1 FOR EVERY 25 SPACES, IN ANY GIVEN LOT, BE DESIGNATED AS ACCESSIBLE. 1 OUT OF EVERY 6 SPACES SHOULD BE VAN ACCESSIBLE
PARKING STALL	8X18 FEET FOR A CAR AND 11X18 FEET FOR A VAN
ACCESSIBLE ROUTE SLOPE / CROSS SLOPE	MAXIMUM 1:20 (5%) RUNNING SLOPE AND 1:48 (2%) CROSS SLOPE; ACCESSIBLE VEHICLE SPACES 1:48 (2%) IN ALL DIRECTIONS AND 90-INCH CLEARANCE FOR VANS
REACH RANGE	BETWEEN 15 AND 48 INCHES FRONT AND SIDE TO ALLOW REACH TO ALL OPERABLE PARTS FROM A WHEELCHAIR
ACCESSIBLE CONTROLS	OPERABLE WITH ONE HAND AND NOT REQUIRING GRASPING, PINCHING, OR TWISTING OF THE WRIST OR FORCE MORE THAN 5 LBS. EXCEPTION: GAS PUMPS
ACCESSIBLE RAMPS	A RAMP OR CURB-CUT MUST BE ACCESSIBLE TO ALLOW FOR OPERATION OF CHARGING STATION
FACILITY ACCESSIBILITY	MUST BE CONNECTED BY A MINIMUM OF 50-INCH-WIDE ACCESSIBLE ROUTE IN PROXIMITY (NOT NECESSARILY ADJACENT) TO THE ENTRANCE OF THE BUILDING
SIDE ACCESS AISLE	SIDE ACCESS AISLE OF 60 INCHES WIDE TO ALLOW SPACE FOR WHEELCHAIR AND EQUIPMENT IN AND OUT OF SPACE
OTHER CONSIDERATIONS	ENSURE THAT BOLLARDS, WHEEL STOPS, OR CURB DO NOT OBSTRUCT USE OF CHARGING STATION

- GENERAL NOTES**
- FIELD VERIFY ALL MEASUREMENTS
  - ITEMS BELOW MAY NOT BE ON THIS PAGE



**CONTRACTOR**

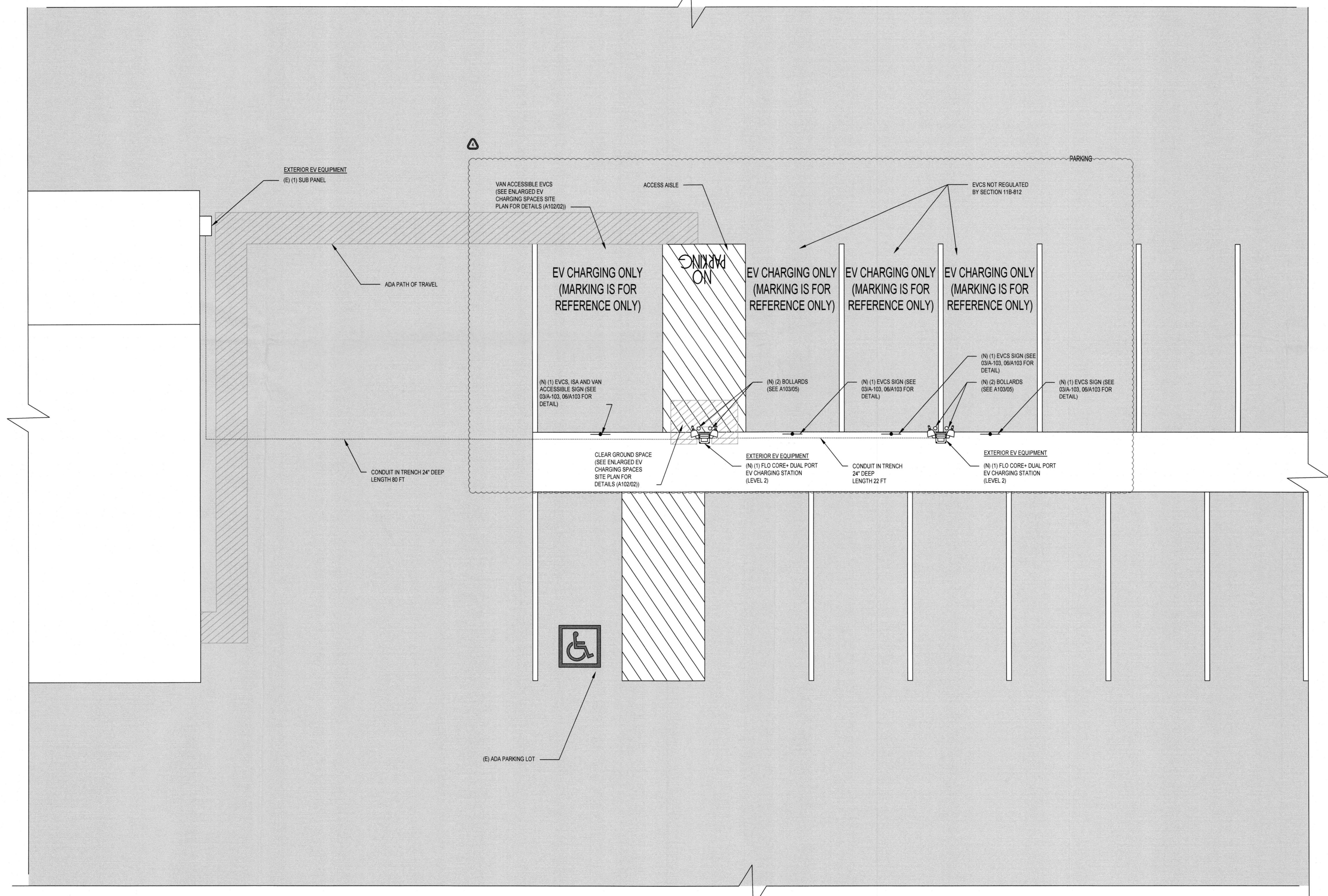
CHARGED FUTURE

PHONE: 559-375-5138

ADDRESS:

LIC. NO.:

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**REVISION / RELEASE**

NO.	DESCRIPTION	DATE
△	AHJ COMMENTS	07.06.2023
△	AHJ COMMENTS	25.08.2023
△	AHJ COMMENTS	23.08.2023
△	CONTRACTOR COMMENTS	25.08.2023

**PROJECT**

NEW EV SYSTEM  
**OCSO DISTRICT OFFICE**

1655 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-023

**ENGINEER OF RECORD**



08/28/2023  
VSE Project Number: U1869-3970-231

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:  
ELECTRICAL PLAN

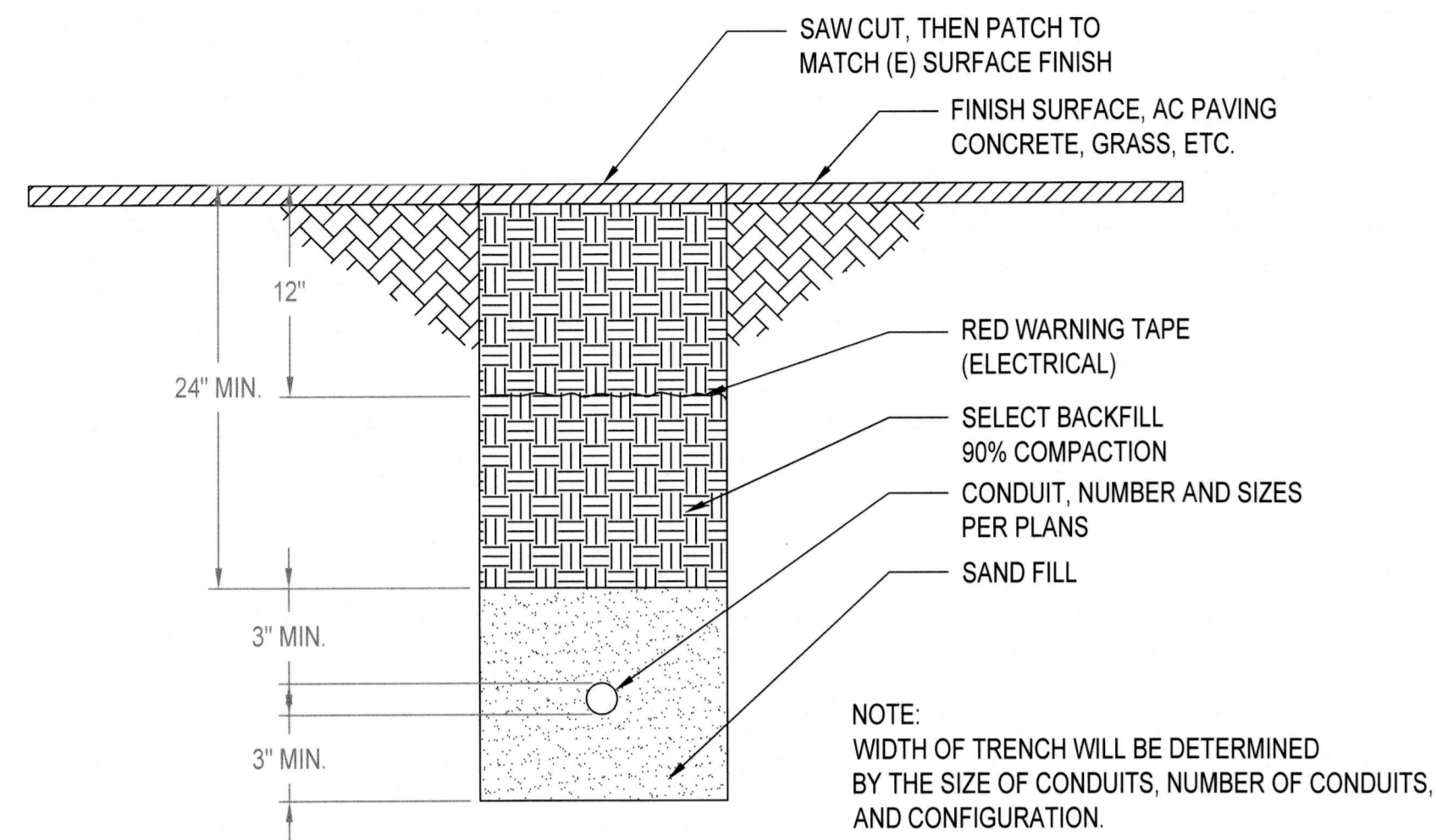
DATE: 04.14.2023

DESIGN BY: V.H.

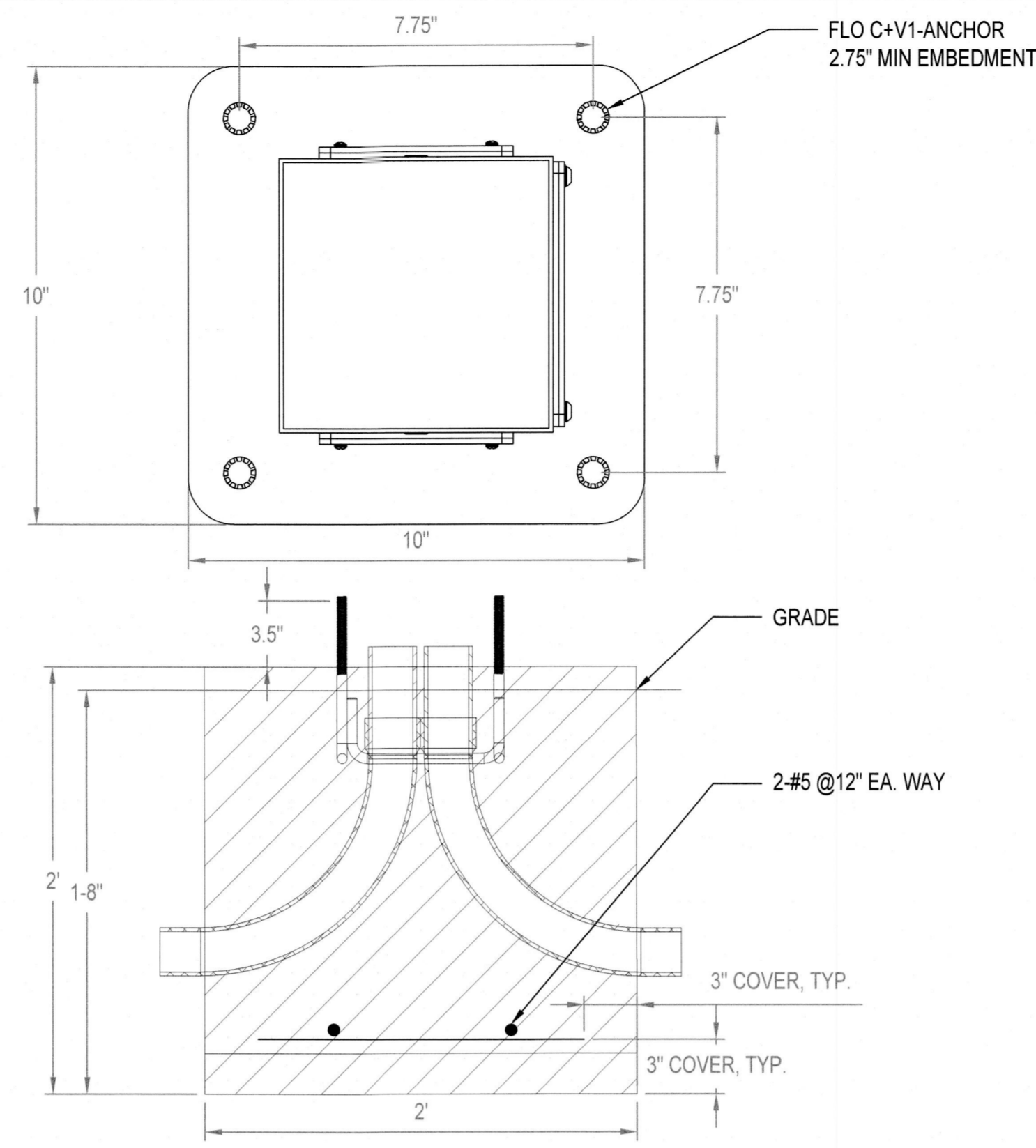
CHECKED BY: L.A.

SHEET NUMBER:

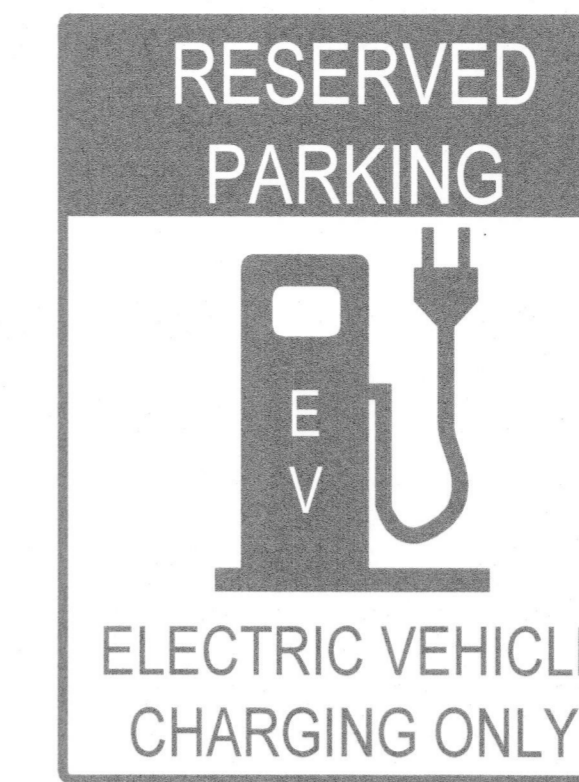
**A-102.00**  
(SHEET 4)



**01 CONDUIT TRENCH DETAILS**  
SCALE: NOT TO SCALE

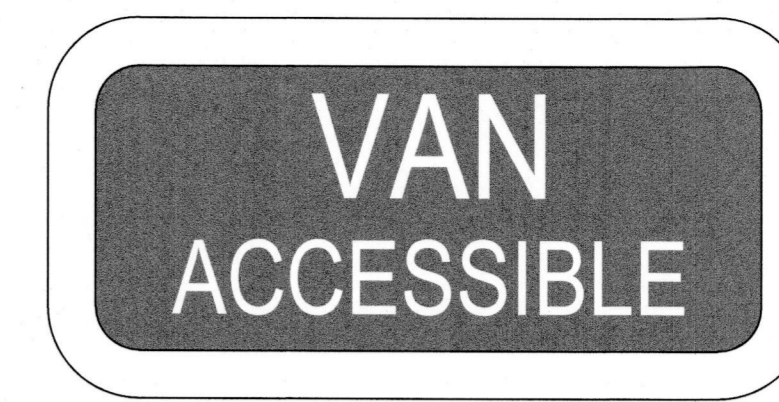


**02 REBAR & ANCHORAGE FOR PEDESTAL DETAILS**  
SCALE: NOT TO SCALE

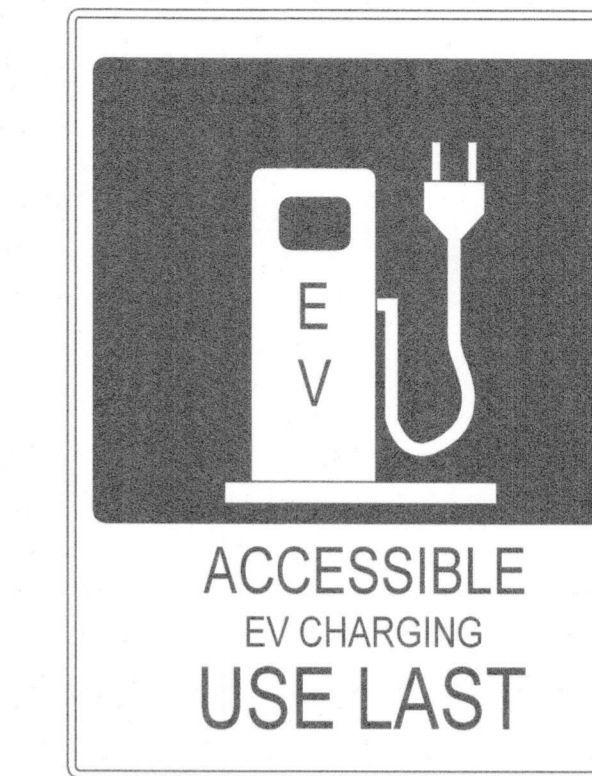


**SIGN 1**  
REGULAR ACCESSIBLE ELECTRIC VEHICLE CHARGING STATION SIGN  
18"x24" or 12"x18"

NOTE:  
REGULAR EVCS SIGN FOR REFERENCE ONLY. IT MAY BE DIFFERENT.

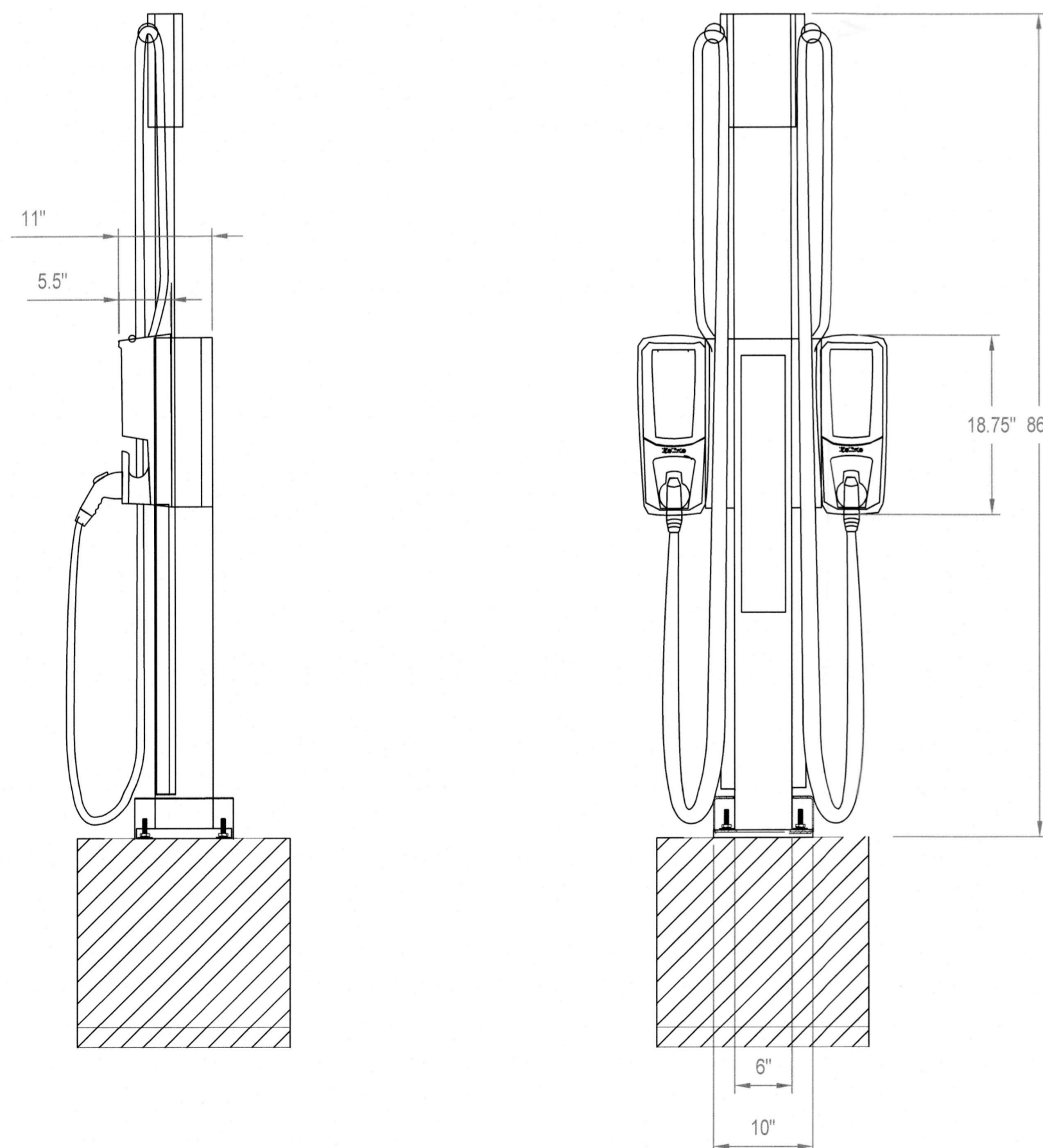


**SIGN 2**  
VAN ACCESSIBLE PARKING SIGN  
MUTCD: R7-8b  
18"x9" or 12"x6"



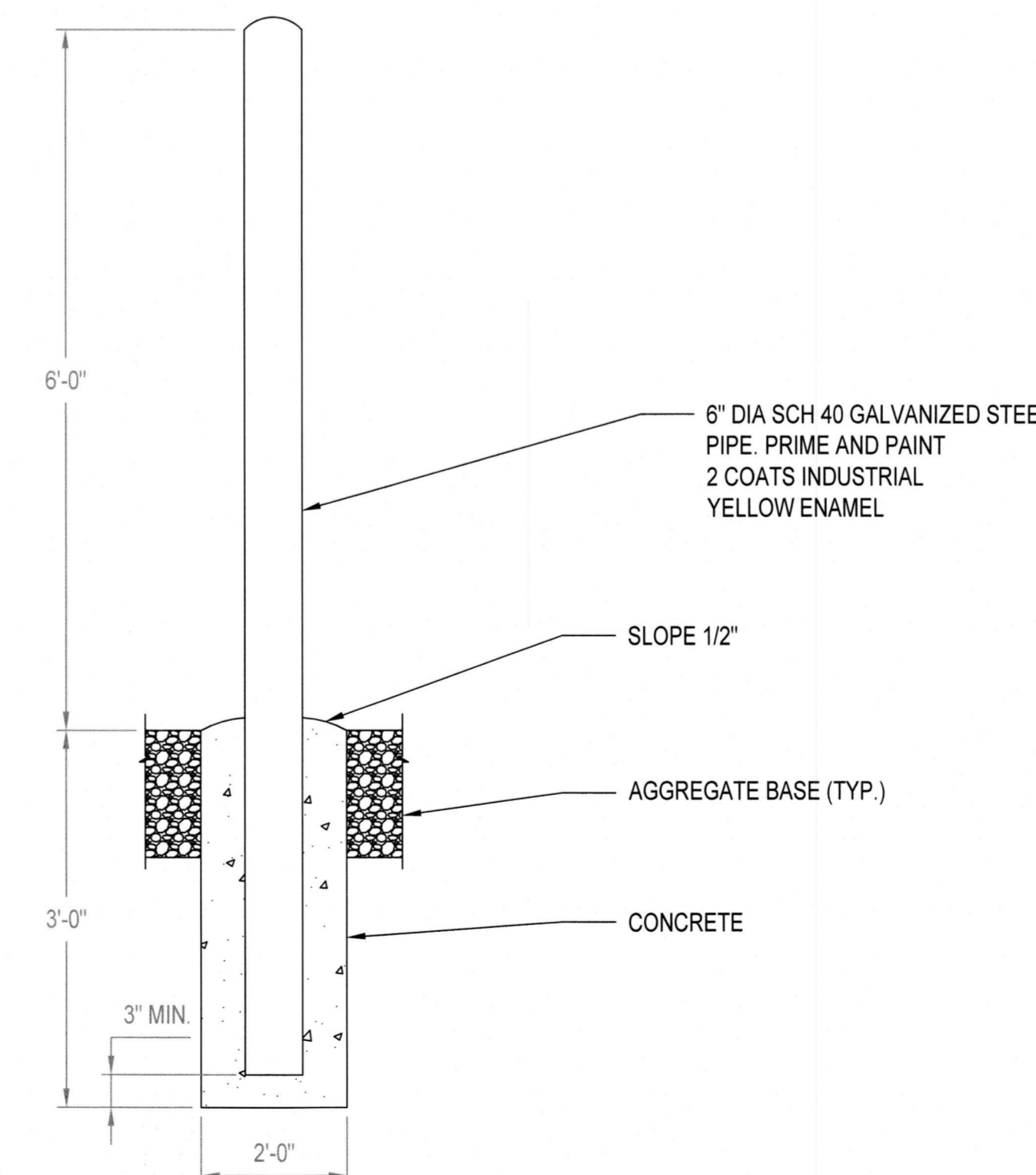
**SIGN 3**  
ADA ACCESSIBLE ELECTRIC VEHICLE CHARGING STATION SIGN  
18"x24" or 12"x18"

**03 ADA AND EVCS REQUIREMENTS SIGNS DETAILS**  
SCALE: NOT TO SCALE



**04 FLO CORE+ DETAILS**  
SCALE: NOT TO SCALE

NOTE: BOLLARD IS INTENDED TO PROVIDE A BARRIER TO EV EQUIPMENT; HOWEVER, IT IS NOT DESIGNED TO WITHSTAND VEHICLE IMPACT LOAD WITHOUT STRUCTURAL/SOIL FAILURE. BOLLARD AND FOUNDATION SHALL BE REPLACED IF VEHICLE IMPACT CAUSES DEFLECTION AT FOUNDATION OR YIELDING OF THE STEEL PIPE. VECTOR ENGINEERING IS NOT RESPONSIBLE FOR ANY DAMAGE RESULTING FROM BOLLARD FAILURE. BOLLARD FOUNDATION SHALL BE POSITIONED AS TO CLEAR PEDESTAL FOUNDATION



**05 BOLLARDS DETAILS**  
SCALE: NOT TO SCALE

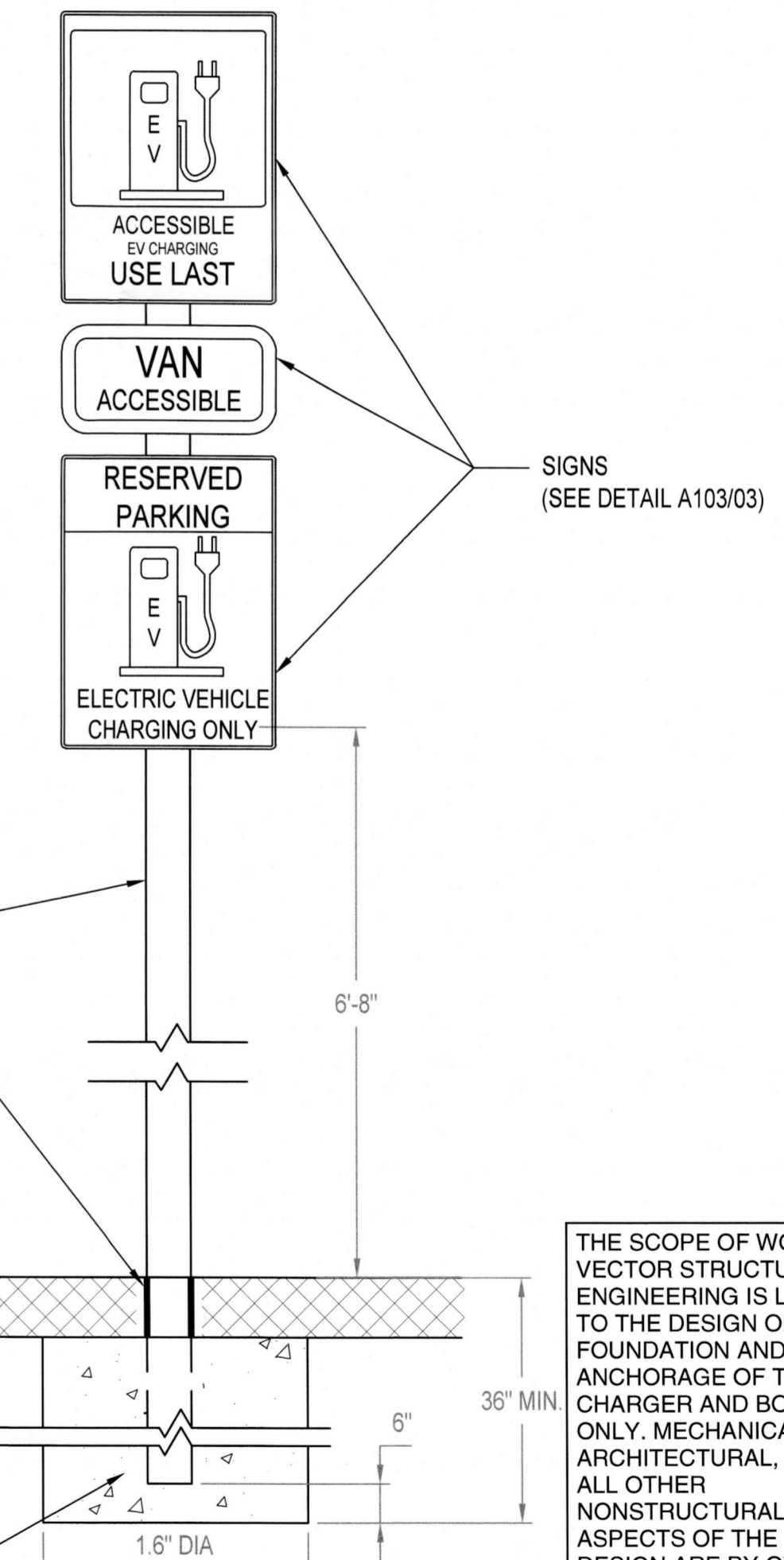
NOTES:

- CONTRACTOR SHALL VERIFY SIGN WITH LOCAL AND ADA REQUIREMENTS AND SPECIFICATIONS BEFORE INSTALLATION. LOCAL JURISDICTION SIGN REQUIREMENTS SHALL TAKE PRECEDENCE OVER THIS DETAIL.
- SIGNS SHALL BE LOCATED SO THAT THEY CANNOT BE OBTSCURED BY A VEHICLE PARKED IN THE SPACE. SIGN TO BE PROVIDED AT ALL ACCESSIBLE PARKING SPACES AS PER ADA REGULATIONS.
- STRUCTURAL ANALYSIS OF STEEL TUBE AND FOUNDATION TO BE COMPLETED BY OTHERS

2" X 2" GALVANIZED STEEL TUBE

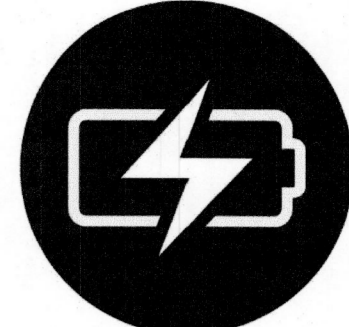
SEALED EXPANSION JOINT AROUND PIPE

18" DIA CONCRETE FOUNDATION AROUND PIPE COLUMN 6" BELOW FROST LINE (3 FT. MIN. BELOW FIN. GRADE).



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**06 SIGNS POLE DETAILS**  
SCALE: NOT TO SCALE



CONTRACTOR

CHARGED FUTURE

PHONE: 559-375-5138

ADDRESS:

LIC. NO.:

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REVISION / RELEASE

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Δ	AHJ COMMENTS	07.06.2023
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Δ	CONTRACTOR COMMENTS	25.08.2023

PROJECT

NEW EV SYSTEM

**OCSO DISTRICT OFFICE**

1655 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-023

ENGINEER OF RECORD



08/28/2023

VSE Project Number: U1869.3970.231

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:

ELEVATION PLAN

DATE: 04.14.2023

DESIGN BY: V.H.

CHECKED BY: L.A.

SHEET NUMBER:

**A-103.00**  
(SHEET 9)

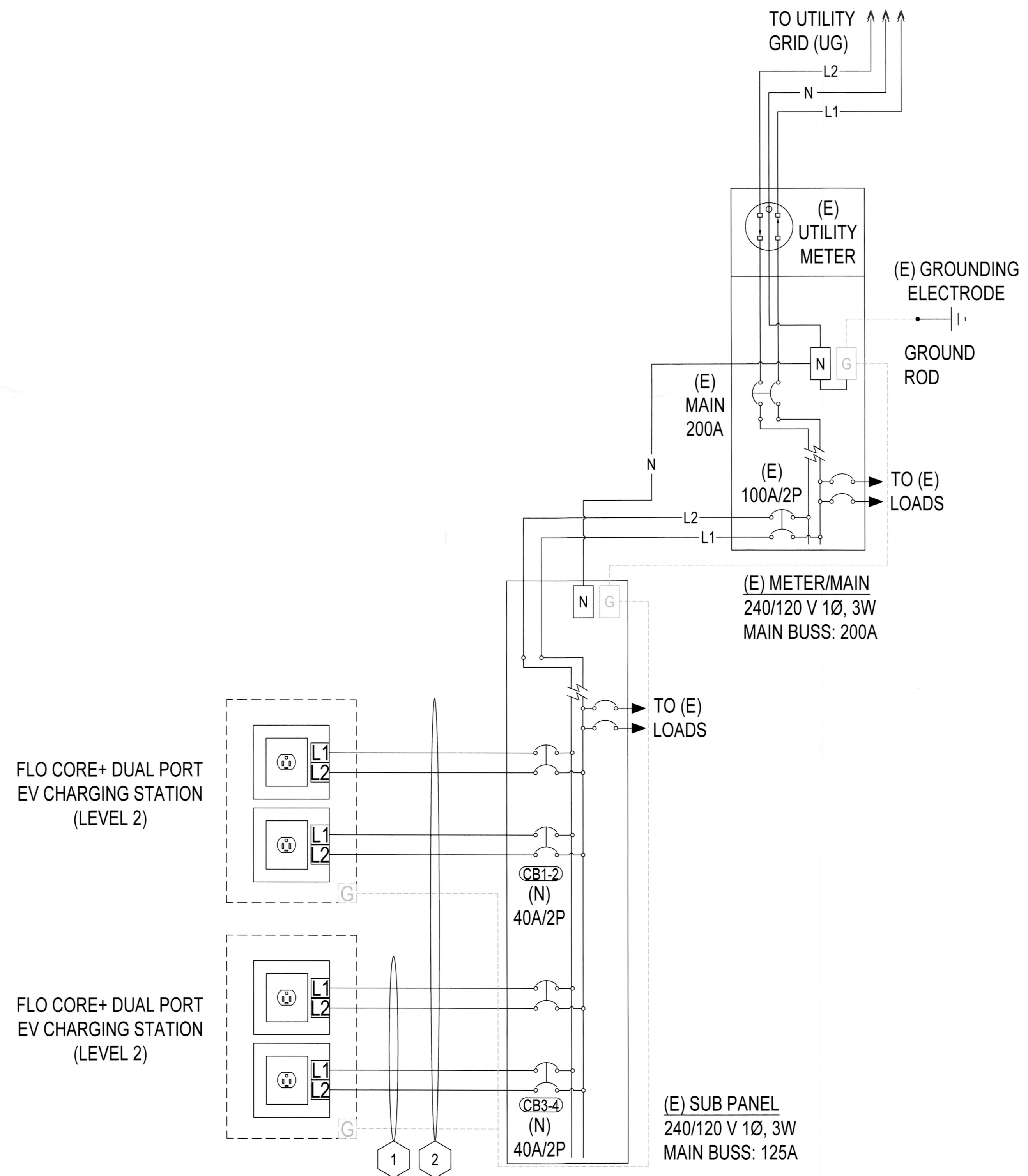
CONDUCTOR AND CONDUIT SCHEDULE W/ELECTRICAL CALCULATIONS

ID	TYPICAL	CONDUCTOR	CONDUIT	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD	EGC	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	CONT. CURRENT	MAX. CURRENT (125%)	BASE AMP.	DERATED AMP.	TERM. TEMP. RATING	AMP. @ TERMINAL	LENGTH	VOLTAGE DROP
1	1	8 AWG THWN-2, COPPER	1" DIA PVC-40	4	40A	10 AWG THWN-2, COPPER	1	0.8	30A	37.5A	55A	44A	75°C	50A	106 FT.	2.07%
2	1	8 AWG THWN-2, COPPER	1" DIA PVC-40	8	40A	10 AWG THWN-2, COPPER	1	0.7	30A	37.5A	55A	38.5A	75°C	50A	84 FT.	1.64%

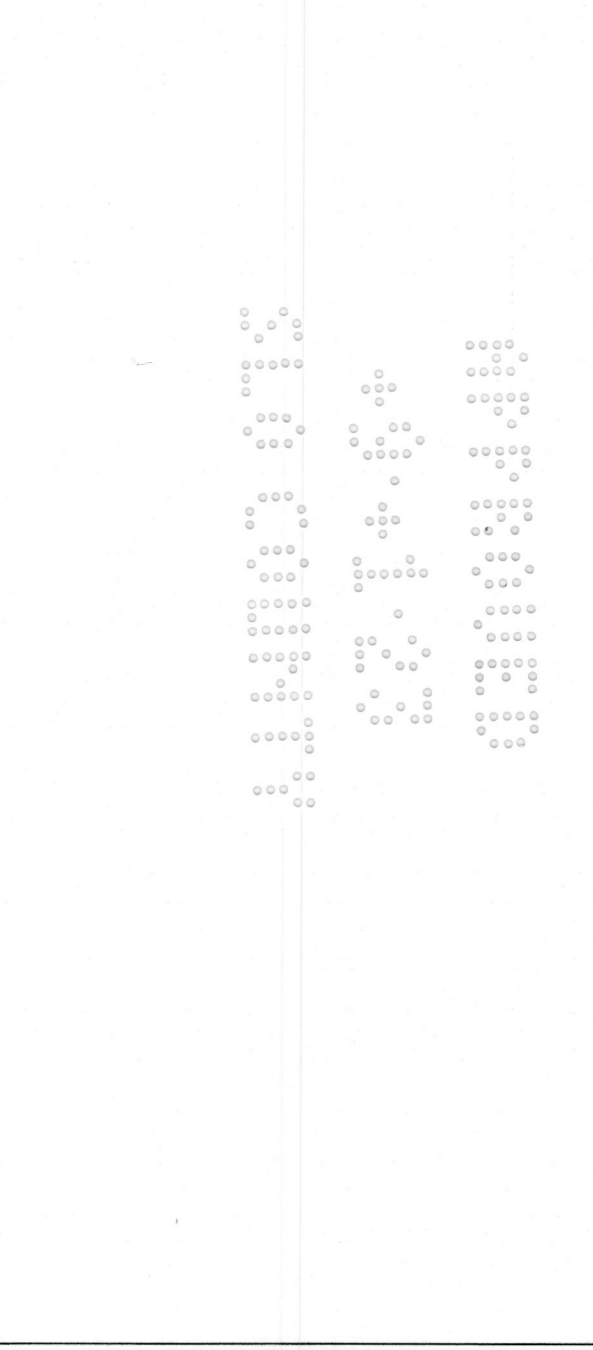
BILL OF MATERIALS

CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION
EV CHARGE	FLO	CORE+	EV1-2	2	PIECE	1	FLO CORE+ DUAL PORT EV CHARGING STATION (LEVEL 2) (INCLUDING 2 CHARGERS AND PEDESTAL MOUNT)
WIRING		GEN-10-AWG-THWN-2-CU-GR	WR1-2	190	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING		GEN-8-AWG-THWN-2-CU-RD	WR1-2	380	FEET	1	8 AWG THWN-2, COPPER, RED (LINE 1)
WIRING		GEN-8-AWG-THWN-2-CU-BLK	WR1-2	380	FEET	1	8 AWG THWN-2, COPPER, BLACK (LINE 2)
WIREWAY		GEN-PVC-40-1" DIA	WW1-2	102	FEET	1	PVC-40 CONDUIT, 1" DIA
OCPD	GENERIC MANUFACTURER	GEN-CB-40A-240VAC	CB1-4	4	PIECE	1	CIRCUIT BREAKER, 40A, 2 POLE, 240VAC

OCPDS			
REF.	QTY.	RATED CURRENT	MAX VOLTAGE
CB1-4	4	40A/2P	240VAC



CONTRACTOR  
 CHARGED FUTURE  
 PHONE: 569-975-5138  
 ADDRESS:  
 LIC. NO.:



REVISION / RELEASE		
NO.	DESCRIPTION	DATE
Δ	AHJ COMMENTS	07.06.2023
Δ	AHJ COMMENTS	25.06.2023
Δ	AHJ COMMENTS	23.08.2023
Δ	CONTRACTOR COMMENTS	25.08.2023

PROJECT  
 NEW EV SYSTEM  
**OCSO DISTRICT OFFICE**  
 1655 FRONT STREET  
 OCEANO, CA 93422  
 APN: 062-271-023

ENGINEER OF RECORD

PAPER SIZE: 36" x 24" (ARCH D)  
 SHEET TITLE: LINE DIAGRAM  
 DATE: 04.14.2023  
 DESIGN BY: V.H.  
 CHECKED BY: L.A.  
 SHEET NUMBER:  
**E-601.00**  
 (SHEET 7)

CoRe+™



Shown with optional cable management system



CoRe+™

## Overview

The CoRe+ charging station is designed for applications where multiple charging stations may be necessary now or in the future, such as public sites, workplaces, multi-unit residential buildings (condos and apartments), or commercial fleets. The CoRe+ can be equipped with a cable management system keeping the cables safe and suspended.

### Future-proof energy management features

#### PowerSharing

- Allows the addition of charging ports (keeping up with the fast-paced increase demand for EVSE) for limited electrical infrastructure.
- Requires minimal modification to an existing electrical installation. Our technology can power up to 4 times more vehicles than standard installations would allow.

#### PowerLimiting

- Minimize the incremental power demand on the building's infrastructure (which can significantly increase with uncontrolled EVSEs).
- Limits the power drawn from the grid for an entire site based on a schedule.

#### Physical features

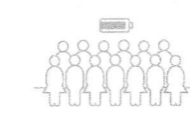
- Rugged charging station able to withstand extreme weather and corrosion
- Thick and sturdy cast aluminum casing
- Universal SAE J1772 connector
- Flexible 21-foot cable (25-foot optional) that remains malleable even during winter's coldest temperatures
- Mounting pedestal helping to meet ADA requirements

## Applications



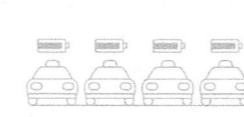
#### Public sites

For business owners and organizations wanting to provide their customers with first-class charging experience and become a destination of choice, while demonstrating their sustainable development leadership.



#### Workplace

For companies looking to offer an EV charging service to their employees, and looking for a solution that can evolve at the same rate as the demand for the service while maintaining reasonable installation and operation costs.



#### Fleet

For fleet managers who wish to grow their EV fleets without expanding their electrical infrastructure while maintaining the operational costs at an affordable level.

## CoRe+

Smart level 2 charging station for private, public and commercial applications

The CoRe+ charging station is specifically designed for private applications such as workplaces, multi-unit residential buildings, fleets, and is also suitable for public spaces

Choose between the Standard and PowerSharing™ versions of the CoRe+ at acquisition time.

### Benefits

- PowerSharing technology (optional) (U.S. Pat. No. 9,927,778)**  
Greatly reduce installation cost by sharing the remaining incremental capacity of an existing electrical infrastructure
- PowerLimiting™ technology (U.S. Pat. No. 10,197,976)**  
Add multiple charging stations to an existing installation while minimizing the building's peak power demand through:
  - Fixed limit
  - Scheduled limitations
- Rugged and reliable design able to withstand harsh weather

### Smart Charging Solution

- Enhanced charging station owner experience** - Complete remote management capabilities including software and firmware updates
- Enhanced user experience** - Deliver real-time updates and notifications to drivers
- Revenue generation** - Implement payment services to generate revenue
- Access control** - Configure stations to authorize access using the FLO mobile app or RFID card authentication, or allow unrestricted access to the station

### Key features

- Type 4X enclosure cast aluminum casing
- Certified to operate in temperatures ranging from -40°F to 122°F / -40°C to +50°C
- Equipped with a charging cable that remains flexible at low temperature
- Wall-mounted and pedestal configuration options. Pedestal configuration helps meet ADA requirements
- Pedestal configuration that helps meet ADA requirements
- Modular design to facilitate servicing and maintenance
- Access provided free of charge or according to a usage fee
- LED status indicator
- Optional cable management system
- Optional cascading kit enables serial daisy-chain connection of multiple charging stations on pedestals and on the same branch circuit
- Software-based field calibration to Meet California Type Evaluation Program requirements

CoRe+™

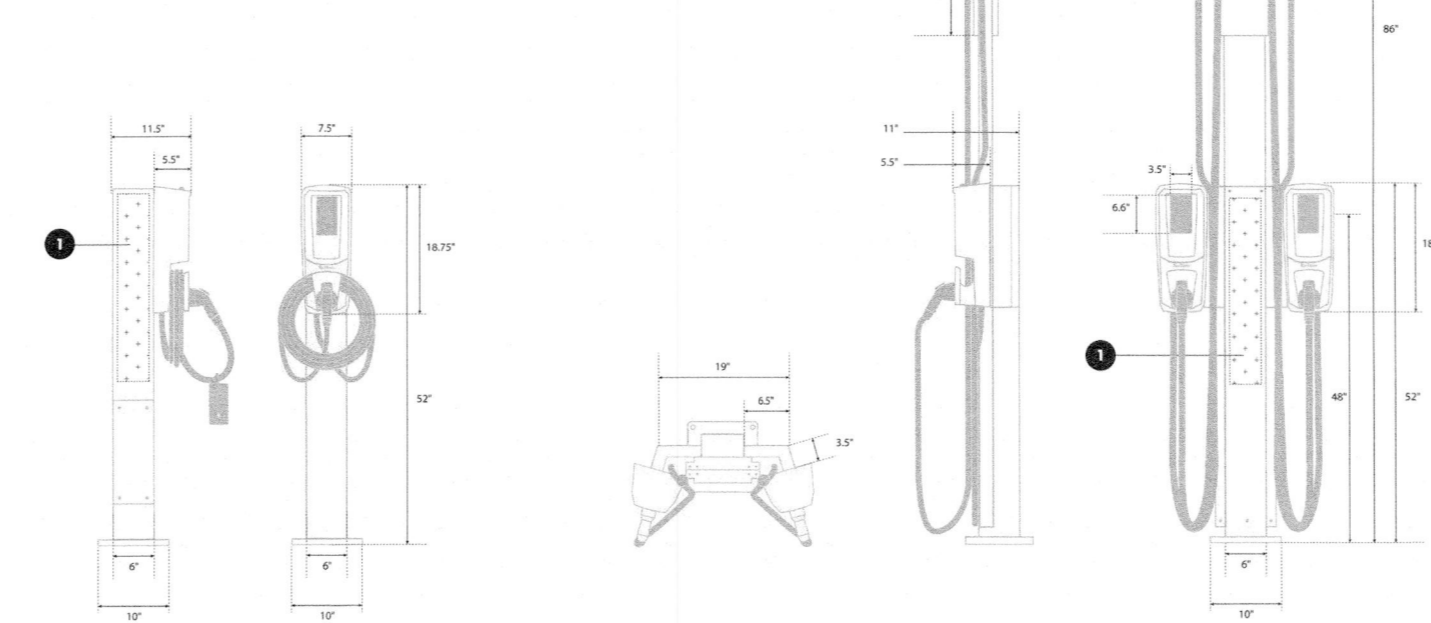
## Available configurations



## Dimensions and customization

- Every charging station includes easily customizable branding areas. The CoRe+ comes in its original colour, which can be modified with your custom signage.

Customizable partner panel area  
Dimensions (H x W): 30" x 4.72"



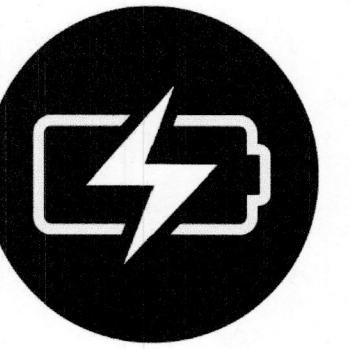
CoRe+™

## Technical specifications

	Standard option	PowerSharing™ option
Aluminum casing		Type 4X enclosure
Charging connector		SAE J1772
Cable		21' (optional 25') / 6.4 m (optional 7.62 m)
Input Power	Standard: 30 A @ 208 VAC or 240 VAC for each charging station	PowerSharing: 32 A @ 208 VAC or 240 VAC per set of 4 charging stations
Charging power		1.2 kW to 7.2 kW (maximum configurable by software)
Output current		6 A to 30 A (maximum configurable by software)
Integrated GFCI		20 mA, auto reset (3 attempts at 15-minute intervals)
Frequency		60 Hz
Operating and storage temperature		-40 °F to 122 °F / -40°C to +50°C
Weight		Charging station: 21 lbs / 9.53 kg; Pedestal: 32 lbs / 14.5 kg Cable management system: 15 lbs / 6.8 kg
Humidity		Up to 95% (non-condensing)
Card reader		ISO 14443 A/B, ISO 15693, NFC
Communication interface		ZigBee - IEEE 802.15.4 meshed network
Networking		Cellular - LTE (gateway is installed separately for optimal performances)
Certifications	CSA - C22.2 No. 280 / UL 2594, CSA C22.2 No 281.1 and 281.2 / UL 2231-1 and 2231-2	
EMC compliance	USA - FCC 47 CFR 15 class A CAN - ICES-3 (A)	
Metering Accuracy	Certified according to California Type Evaluation Program (CTEP)	
Model Number (21' Cable)	COCH602EA1-FL-P07	COPS602EA1-FL-P07
Model Number (25' Cable)	COCH102AA1-FL-P07	COPS102AA1-FL-P07

Learn more  
info@fio.com  
1 855 543 8356 fio.com

Designed and manufactured by AddÉnergie



CONTRACTOR

CHARGED FUTURE

PHONE: 559-375-5138

ADDRESS:

LIC. NO.:

UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTORS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.

### REVISION / RELEASE

NO.	DESCRIPTION	DATE
Δ	AHJ COMMENTS	07.06.2023
Δ	AHJ COMMENTS	25.06.2023
Δ	AHJ COMMENTS	23.08.2023
Δ	CONTRACTOR COMMENTS	25.08.2023

### PROJECT

NEW EV SYSTEM  
**OCSO DISTRICT OFFICE**

1655 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-023

### ENGINEER OF RECORD

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:  
RESOURCE DOCUMENT

DATE: 04.14.2023

DESIGN BY: V.H.

CHECKED BY: L.A.

SHEET NUMBER:

**R-001.00**  
(SHEET 7)

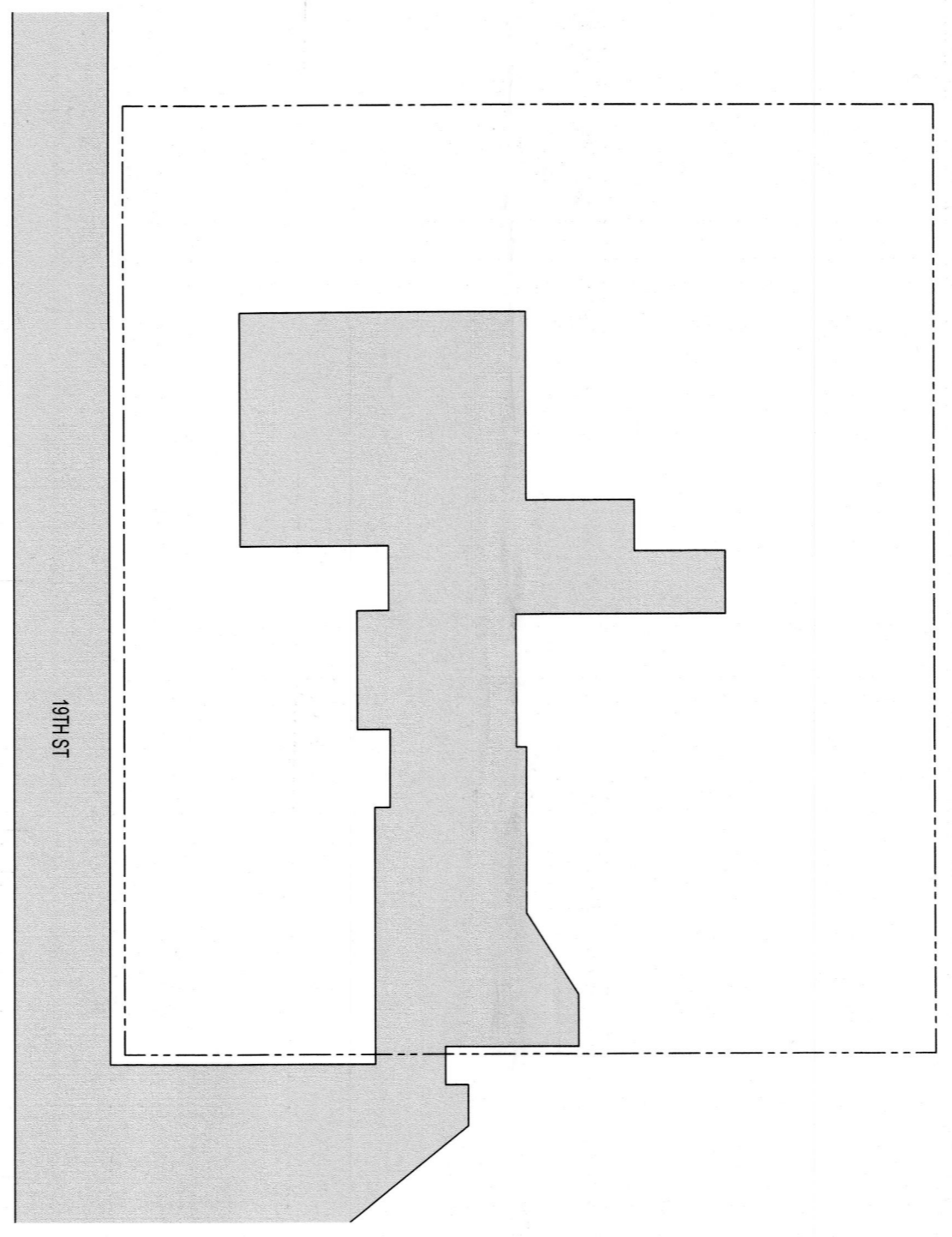
**GENERAL NOTES**

- 1.1.1 PROJECT NOTES:
- 1.1.2 THIS ELECTRIC VEHICLE CHARGING SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 625, ALL MANUFACTURERS LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION(S) (AHJ) APPLICABLE CODES.
- 1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND ELECTRIC VEHICLE CHARGING SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- 1.1.4 ALL ELECTRICAL MATERIALS, DEVICES, FITTINGS, AND ASSOCIATED EQUIPMENT SHALL BE LISTED FOR SUCH USE.
- 1.1.5 THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL COMPLY WITH NEC 625.15.
- 1.2.1 SCOPE OF WORK:
- 1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE VEHICLE CHARGING SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ON-SITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL VEHICLE CHARGING SYSTEM DETAILED IN THIS DOCUMENT.
- 1.3.1 GENERAL REQUIREMENTS
- 1.3.2 OVERCURRENT PROTECTION FOR FEEDERS AND BRANCH CIRCUITS SUPPLYING ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE SIZED PER NEC 625.42.
- 1.3.3 DISCONNECTING MEANS PER NEC 625.42 ELECTRIC VEHICLE SUPPLY EQUIPMENT RATED MORE THAN 60 AMPERES OR MORE THAN 150 VOLTS TO GROUND, THE DISCONNECTING MEANS SHALL BE PROVIDED AND INSTALLED IN A READILY ACCESSIBLE LOCATION. THE DISCONNECTING MEANS SHALL BE LOCKABLE OPEN IN ACCORDANCE WITH 110.25.
- 1.3.4 LOCATION PER NEC 625.50 THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE LOCATED FOR DIRECT ELECTRICAL COUPLING OF THE EV CONNECTOR (CONDUCTIVE OR INDUCTIVE) TO THE ELECTRIC VEHICLE UNLESS SPECIFICALLY LISTED AND MARKED FOR THE LOCATION. THE COUPLING MEANS OF THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE STORED OR LOCATED AT A HEIGHT OF NOT LESS THAN 450 MM (18 IN) ABOVE THE FLOOR LEVEL FOR INDOOR LOCATIONS AND 600 MM (24 IN) ABOVE THE GRADE LEVEL FOR OUTDOOR LOCATIONS.
- 1.3.5 VENTILATION THE VENTILATION REQUIREMENT FOR CHARGING AN ELECTRIC VEHICLE IN AN INDOOR ENCLOSED SPACE SHALL COMPLY NEC 625.52.
- 1.3.6 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
- 1.3.10 MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
- 1.3.11 PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.
- 1.3.12 ALL EQUIPMENT SHALL BE NEW, "UL" LISTED, AND LABELED.
- 1.3.14 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.
- 1.3.17 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.
- 1.3.20 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.
- 1.3.21 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
- 1.3.23 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.
- 1.3.24 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 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.
- 1.3.26 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 INDICATED ON THE DRAWINGS.
- 1.3.27 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.
- 1.3.31 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.
- 1.3.32 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.
- 1.3.33 THE CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 1.3.34 CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 1.3.37 THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE OWNER/CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 1.3.38 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.
- 1.3.40 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.
- 1.3.45 CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION AND PROVIDE EROSION AND SEDIMENT CONTROL MEASURES DURING
- 1.3.47 CONSTRUCTION IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL REQUIREMENTS. PROVIDE ALL REQUIRED SILT FENCING, CONSTRUCTION FENCING, STRAW BALES, STORM DRAIN CATCH BASIN INSERTS (SCOBs), ENTRANCE ROCKING, AND ANY OTHER REQUIRED ELEMENTS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND/OR CLEARING THE SITE.
- 1.3.48 THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 96 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.
- 1.3.49 THE CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- 1.3.50 THE CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 1.3.51 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.
- 1.3.54 THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A 0T 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.
- 1.3.55 ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
- 1.3.56 ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE OWNER AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE OWNER UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 1.3.60 THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
- 1.3.61 THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 1.3.62 SOUNDS ORIGINATING FROM THE CONSTRUCTION SITE, INCLUDING BUT NOT LIMITED TO SOUND FROM CONSTRUCTION EQUIPMENT, POWER TOOLS AND HAMMERS, 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. PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.
- 1.3.65 PROVIDE HLETED OR ENGRAVED PLASTIC NAMEPLATES (RED WITH WHITE LETTERS) FOR ALL MAJOR ELECTRICAL EQUIPMENT. ALL DEVICES MOUNTED BACK TO BACK ON THE FIRE RATED WALL SHALL BE MOUNTED WITH 24" MINIMUM HORIZONTAL OFFSET.

**NEW EV SYSTEM  
OCSD WATER YARD**  
1935 WILMAR AVE  
OCEANO, CA 93422  
APN: 062-261-079



01 AERIAL PHOTO  
SCALE: NOT TO SCALE



02 PLAT MAP  
SCALE: NOT TO SCALE

SHEET LIST TABLE	
SHEET NUMBER	SHEET TITLE
T-001	COVER PAGE
G-001	NOTES
A-101	SITE PLAN
A-102	ELECTRICAL PLAN
E-001	LINE DIAGRAM
R-001	RESOURCE DOCUMENT

**PROJECT INFORMATION**

**OWNER**  
NAME: OCEANO COMMUNITY SERVICES DISTRICT  
PHONE: 559/375-138  
E-MAIL:

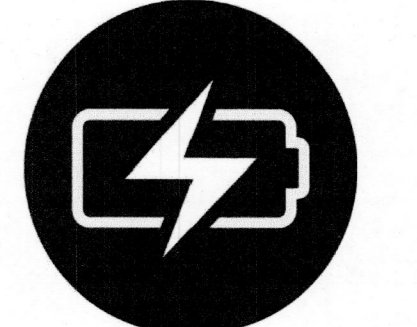
**PROJECT MANAGER**  
NAME:  
PHONE:  
E-MAIL:

**CONTRACTOR**  
NAME: CHARGED FUTURE  
PHONE: 559-375-5138  
E-MAIL: HELLO@CHARGEDFUTURE.COM

**AUTHORITIES HAVING JURISDICTION**  
BUILDING: SAN LUIS OBISPO COUNTY  
ZONING: SAN LUIS OBISPO COUNTY  
UTILITY: PG&E

**APPLICABLE CODES & STANDARDS**  
BUILDING: CBC 2022  
ELECTRICAL: CEC 2022  
FIRE: CFC 2022

**SCOPE OF WORK**  
SYSTEM SIZE: (2) FLO CORE+ SINGLE PORT EV CHARGING STATION (LEVEL 2)



**CONTRACTOR**

CHARGED FUTURE

PHONE: 559-375-5138  
ADDRESS:  
LIC. NO.:  
UNAUTHORIZED USE OF THIS DRAWING BY ANY OTHER PARTY WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.

**REVISION / RELEASE**

NO.	DESCRIPTION	DATE
Δ	AHJ COMMENTS	06.29.2023

**PROJECT**

NEW EV SYSTEM  
**OCSD WATER YARD**  
  
1935 WILMAR AVE  
OCEANO, CA 93422  
APN: 062-261-079

**ENGINEER OF RECORD**

COUNTY OF SLO PLANNING AND BUILDING  
REVIEWED FOR CODE COMPLIANCE  
by Roseana Esparza  
*Roseana Esparza* 08/21/23  
The approval of these plans shall not permit violations of county or state laws. The County may revoke this permit if irregular corrections are made in error. These approved plans shall be made available when inspections are requested. All changes must be approved.

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE: COVER PAGE

DATE: 04.14.2023  
DESIGN BY: V.H.  
CHECKED BY: L.A.  
SHEET NUMBER:

T-001.00  
(SHEET 1)

### ELECTRICAL NOTES

2 GENERAL

2.1.1 CONDITIONS

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

2.2.1 CODES, REGULATIONS, AND STANDARDS

2.2.2 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).

2.3.1 INSPECTION OF SITE

2.3.2 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.

2.4.1 STORAGE AND HANDLING OF MATERIAL

2.4.2 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.

2.4.3 ARRANGE FOR TIMELY DELIVERY OF MATERIALS AND EQUIPMENT TO THE JOB SITE IN ORDER TO MINIMIZE THE LENGTH OF TIME BETWEEN DELIVERY AND INSTALLATION. 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.

2.5.1 DRAWINGS

2.5.2 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.

2.6.1 EXCAVATION, CUTTING, AND FITTING

2.6.2 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.

3 PRODUCTS AND EXECUTION

3.1.1 MATERIALS

3.1.2 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.

3.2.1 CONDUIT

3.2.2 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.

3.2.3 ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE MINIMUM OF 3/4".

3.2.4 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. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH "BRITE ZINC" OR "GOLD GALV."

3.2.5 OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.

3.2.6 PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; 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.

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

3.2.8 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.

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

3.2.10 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, ADLET-PLM.

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

3.3.1 OUTLET, PULL AND JUNCTION BOXES

3.3.2 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 PICE, 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.

3.3.3 BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON OR STEEL WITH WATERIGHT 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.

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

3.4.1 SWITCHBOARDS

3.4.2 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.

3.4.3 CONSTRUCTION: INTEGRATED SWITCHBOARD SHALL BE OF THE MODULAR TYPE CONSTRUCTION, CONSTRUCTED IN ACCORDANCE WITH THE LATEST NEMA PB-2 AND UL 891 STANDARDS, 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.

3.4.4 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.

3.4.5 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.

3.4.6 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 IDENTIFIED.

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

3.4.8 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 MOBILE CASE CIRCUIT BREAKERS OR FUSIBLE SWITCHES UP TO 1200 AMP RATING. CONSTRUCTION SHALL BE SIEMENS SB TYPE, OR APPROVED EQUAL.

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

3.4.10 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.

3.5.1 PANEL BOARDS

3.5.2 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.

3.5.3 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.

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

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

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

3.5.7 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.

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

3.6.1 METERED COMMERCIAL PEDESTAL

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

3.6.3 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 585 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.

3.6.4 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 IS REQUIRED FOR INSTALLATION.

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

3.6.6 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.

3.6.7 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.

3.6.8 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.

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

3.7.1 TRANSFORMERS

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

1. RATING & VOLTAGES: AS INDICATED ON DRAWINGS
2. IMPEDANCE AT 115C: STANDARD
3. PRIMARY AND SECONDARY COIL MATERIAL: COPPER
4. CORE MATERIAL: HIGH-GRADE, NON-AGING, SILICON ELECTRICAL STEEL
5. ANGULAR DISPLACEMENT: SECONDARY LAGGING PRIMARY BY 30 (IEC DRY1)
6. VOLTAGE TAPS: 2 - 2 1/2% FCAN, 2 - 2 1/2% FCBN, SILVER PLATED. TAPS TO BE BOLTED-LINK TYPE AND LOCATED AT FRONT OF COLS FOR ACCESSIBILITY
7. INSULATION CLASS: 220°C
8. TEMPERATURE RISE: 150°C
9. PROVIDE MEANS FOR SECURING ALL CONDUCTORS WITHIN ENCLOSURE
10. EFFICIENCY: 97.98% MINIMUM PER DOE 2016 EFFICIENCY LEVELS (CFR TITLE 10)
11. ENCLOSURE: MINIMUM NEMA 3R OR 4X TO SUIT ENVIRONMENT.
12. 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.

3.8.1 CONDUCTORS AND CABLES

3.8.2 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 AMPACITIES 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 #6 AWG AND LARGER U.N.O.

3.8.3 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%).

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

3.8.5 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.

3.8.6 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.

3.8.7 MC CABLE IS NOT PERMITTED

3.8.8 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

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

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

3.9.1 ALUMINUM CONDUCTOR REQUIREMENTS

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

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

3.9.4 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.

3.9.5 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 FOLLOWS:

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.

4 WIRING DEVICES

4.1.1 GENERAL

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

4.1.3 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.

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

4.2.1 SAFETY SWITCHES

4.2.2 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.

4.3.1 FUSES

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

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

4.4.1 ELECTRICAL IDENTIFICATION

4.4.2 PROVIDE ENGRAVED PHENOLIC PLASTIC NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT (INCLUDED BUT NOT LIMITED TO TRANSFORMERS, DISCONNECT SWITCH, SWITCHBOARD, PANELBOARD, CHARGING CABINET, CHARGE POST, OVER-CURRENT PROTECTION DEVICE IN MAIN SWITCHBOARD, ETC.) AND ON EQUIPMENT AS DIRECTED BY OWNER.

4.4.3 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.

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

4.4.5 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".

4.5.1 SYSTEM GROUNDING AND BONDING

4.5.2 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.

4.5.3 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.

4.5.4 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.

4.5.5 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.

4.5.6 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.

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

4.5.8 GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.

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

4.6.1 FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS

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

4.6.3 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.

4.6.4 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.

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

### CONSTRUCTION NOTES

5.1.1 CONCRETE MASONRY NOTES

5.1.2 CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (FM=1,500 PSI), MEDIUM WEIGHT, (115 PCF)

5.1.3 MORTAR SHALL BE TYPE "S" ABOVE GRADE, TYPE "M" BELOW GRADE CONFORMING TO ASTM C270. (MINIMUM 2,000 PSI AT 28 DAYS)

5.1.4 GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS CONFORMING TO ASTM C476.

5.1.5 ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS, ALL CELLS IN RETAINING WALLS, AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.

5.1.6 ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.

5.1.7 WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.

5.1.8 ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.

5.1.9 PROVIDE INSPECTION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.

5.1.10 ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.

5.1.11 CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.

5.1.12 REINFORCING BARS - SEE NOTES UNDER "REINFORCED CONCRETE NOTES" FOR REQUIREMENTS. REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING. LAP SPLICES SHALL BE 48 BAR DIAMETERS, MINIMUM.

5.1.13 PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.

5.1.14 LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.

5.1.15 HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104 OF IBC.

5.1.16 ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT, EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.

5.1.17 CELLS SHALL BE IN VERTICAL ALIGNMENT. DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.

5.1.18 REFER TO DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.

5.1.19 SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKALI OR ORGANIC MATERIAL.

5.2.1 ALL MORTAR JOB OBSTRUCTIONS AND DEBRIS SHALL BE CLEANED FROM INSIDE OF CELLS PRIOR TO GROUTING.

5.2.2 REINFORCED CONCRETE NOTES

5.2.3 CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED. CONTINUOUS INSPECTION IS

NOT REQUIRED. SLUMP: 4" MIN / 6" MAX. AIR ENTRAINMENT: 4.12% - 7% BY VOLUME

5.2.4 REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60. MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".

5.2.5 REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI 318 FOR MINIMUM CLEARANCES.

5.2.6 MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.

5.2.7 DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.

5.2.8 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.

5.2.9 EXCEPT AS DETAILED OR AUTHORIZED, MAKE BARS CONTINUOUS AROUND CORNERS WHERE PERMITTED, SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.

5.2.10 DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.

5.2.11 PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.

5.2.12 EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE CONCRETE PAD ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PRE-FABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.

5.3 ANCHORAGE INSTALLATION NOTES

5.3.2 DRILLING THROUGH EXISTING SLAB REBAR DURING POST-INSTALLED ANCHOR BOLTS INSTALLATION IS NOT PERMITTED.

5.3.3 POST-INSTALLED ANCHOR BOLT INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI), AS INCLUDED IN THE ANCHOR PACKAGING.

5.3.4 EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS USING STANDARD EMBEDMENTS AND EDGE DISTANCES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

5.4 CONCRETE SIDEWALK CONSTRUCTION REQUIREMENTS

5.4.2 PLACING AND FINISHING CONCRETE

THE CONTRACTOR SHALL PROVIDE ADEQUATE TOOLS AND EQUIPMENT TO REDUCE QUALITY WORKMANSHIP IN PLACING AND FINISHING CONCRETE. THE SIDEWALK AND RAMPS SHALL BE FINISHED TO THE TOP OF THE FORMS AND THE SURFACE FINISHED WITH A WOOD OR STEEL FLOAT AND SURFACE TEXTURE SHALL BE A COURSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE SIDEWALK OR RAMP. NO "PLASTERING" OF THE SURFACE SHALL BE PERMITTED.

5.4.3 CONSTRUCTION JOINTS

THE SIDEWALK SURFACE SHALL BE MARKED OFF INTO NOMINAL SQUARES OF DIMENSION TO THE WIDTH OF THE SIDEWALK WITH A MAXIMUM DISTANCE BETWEEN JOINTS OF SEVEN FEET SAWING JOINTS. THE CONTRACTOR SHALL BEGIN AS SOON AS THE CONCRETE HARDENS SUFFICIENTLY TO PREVENT EXCESSIVE RAVELING ALONG THE SAW CUT AND SHALL FINISH BEFORE CONDITIONS INDUCE UNCONTROLLED CRACKS, REGARDLESS OF THE TIME OR WEATHER.

5.4.4 EXPANSION JOINTS

EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE SIDEWALK ABUTS EXISTING CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND EVERY TWO HUNDRED FIFTY FEET AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PRE-FABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.

1935 WILMAR AVE  
OCEANO, CA 93422  
APN: 062-261-079

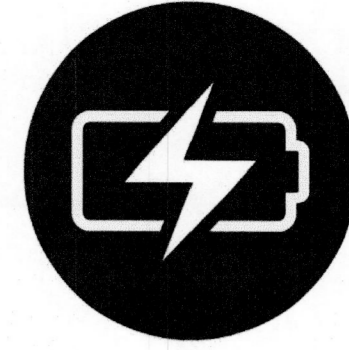
### ENGINEER OF RECORD

[Signature]

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE: **NOTES**

DATE: 04.14.2023  
DESIGN BY: V.H.  
CHECKED BY: L.A.  
SHEET NUMBER: **G-001.00**  
(SHEET 2)



#### CONTRACTOR

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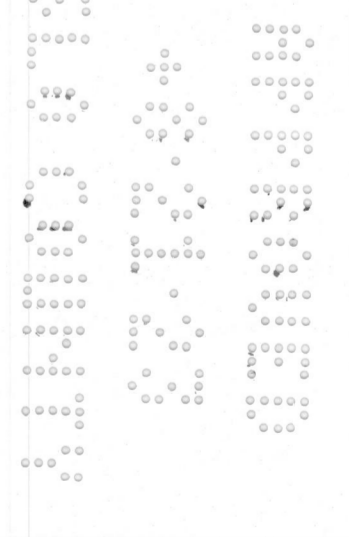
#### PROJECT

NEW EV SYSTEM

### OCSO WATER YARD

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OCEANO, CA 93422  
APN: 062-261-079

#### ENGINEER OF RECORD



PAPER SIZE: 36" x 24" (ARCH D)

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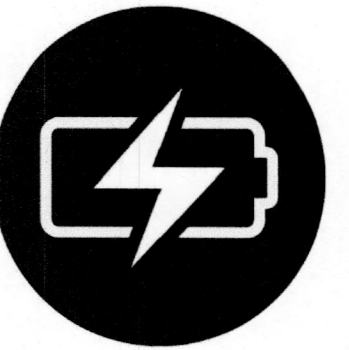
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**GENERAL NOTES**

1. FIELD VERIFY ALL MEASUREMENTS
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**PROJECT**

NEW EV SYSTEM  
**OCS D WATER YARD**

1935 WILMAR AVE  
OCEANO, CA 93422  
APN: 062-261-079

**ENGINEER OF RECORD**

**V.H.**

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SHEET TITLE: **SITE PLAN**

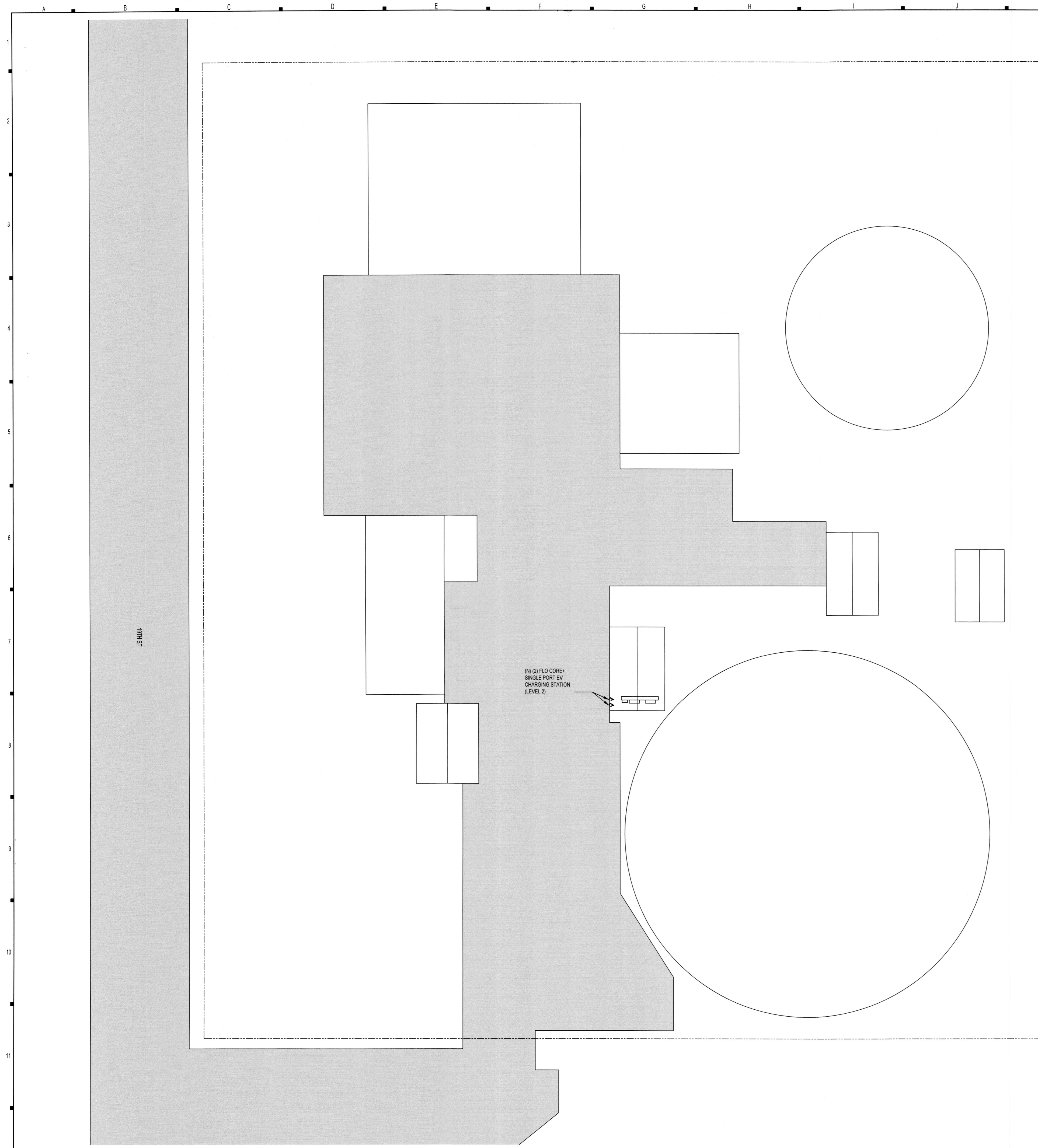
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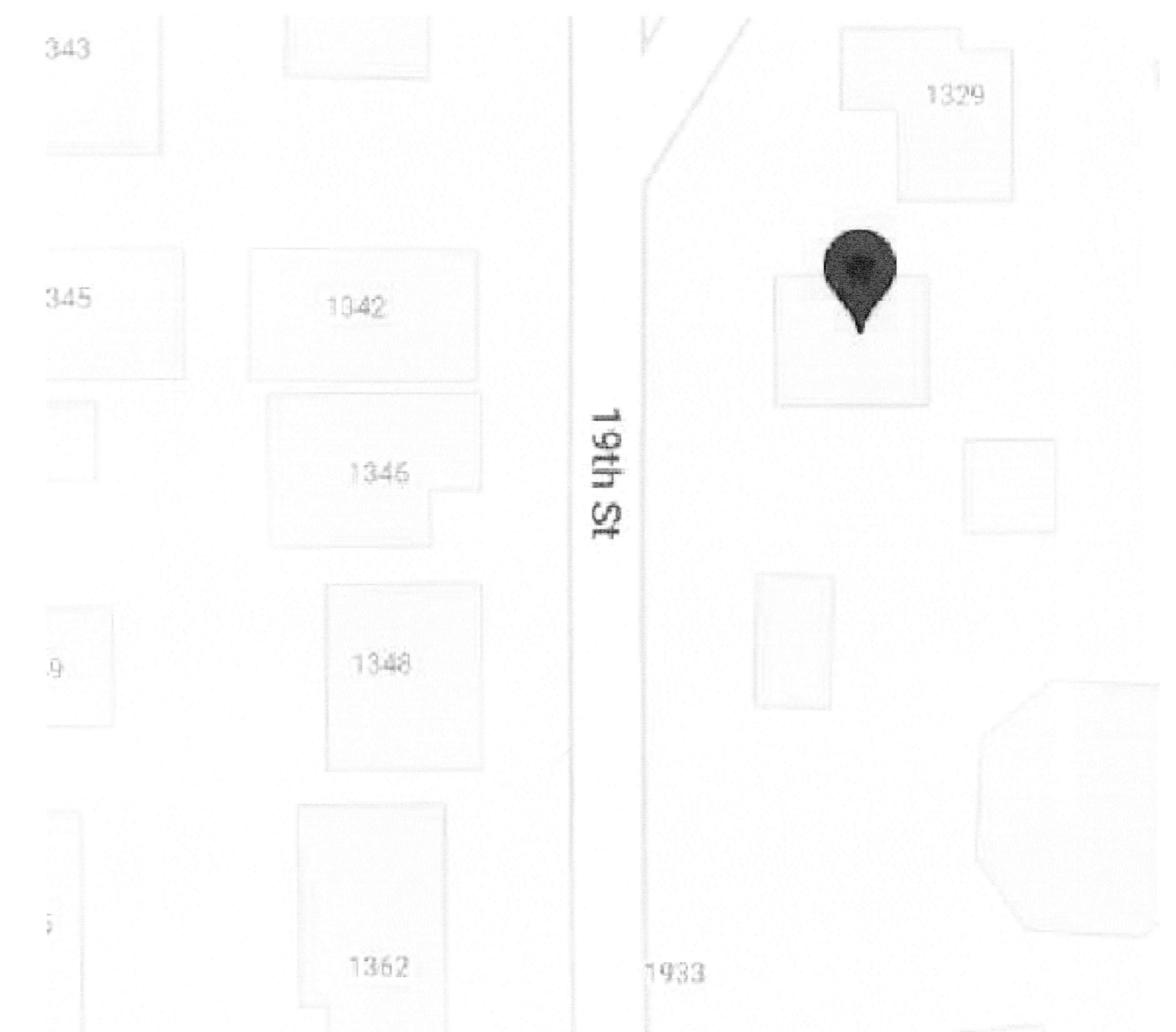
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**A-101.00**  
(SHEET 3)



**01 SITE PLAN**  
3/32" = 1'  
0 5'-0" 10'-0"  
N  
W E  
S



**02 VICINITY MAP**  
SCALE: NOT TO SCALE  
N  
W E  
S

**GENERAL NOTES**

1. FIELD VERIFY ALL MEASUREMENTS
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----- CONDUIT



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Δ	AHJ COMMENTS	06.29.2023

**PROJECT**

NEW EV SYSTEM

**OCSO WATER YARD**

1935 WILMAR AVE  
OCEANO, CA 93422  
APN: 062-261-079

**ENGINEER OF RECORD**  
**VECTOR**  
ELECTRICAL

651 W. SALINA PARK BLVD. STE. 101 | PHONE: (707) 990-1778  
DRAFTER: LITIAN BAZZIO | WWW.VECTORREC.COM

**ELECTRICAL ONLY**



07/11/2023  
VSE Project Number: 111869.3969.231  
PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:  
**ELECTRICAL PLAN**

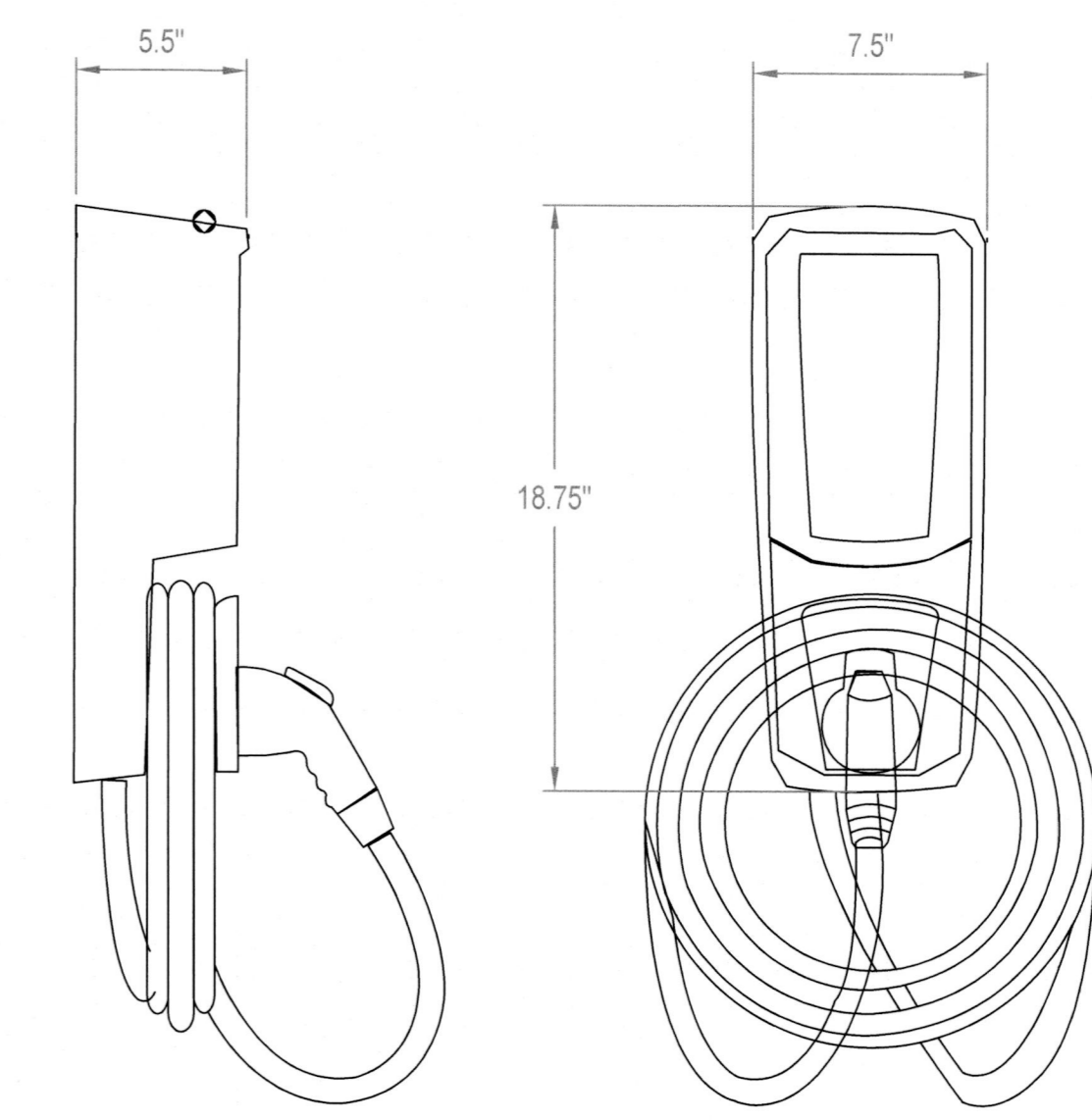
DATE: 04.14.2023

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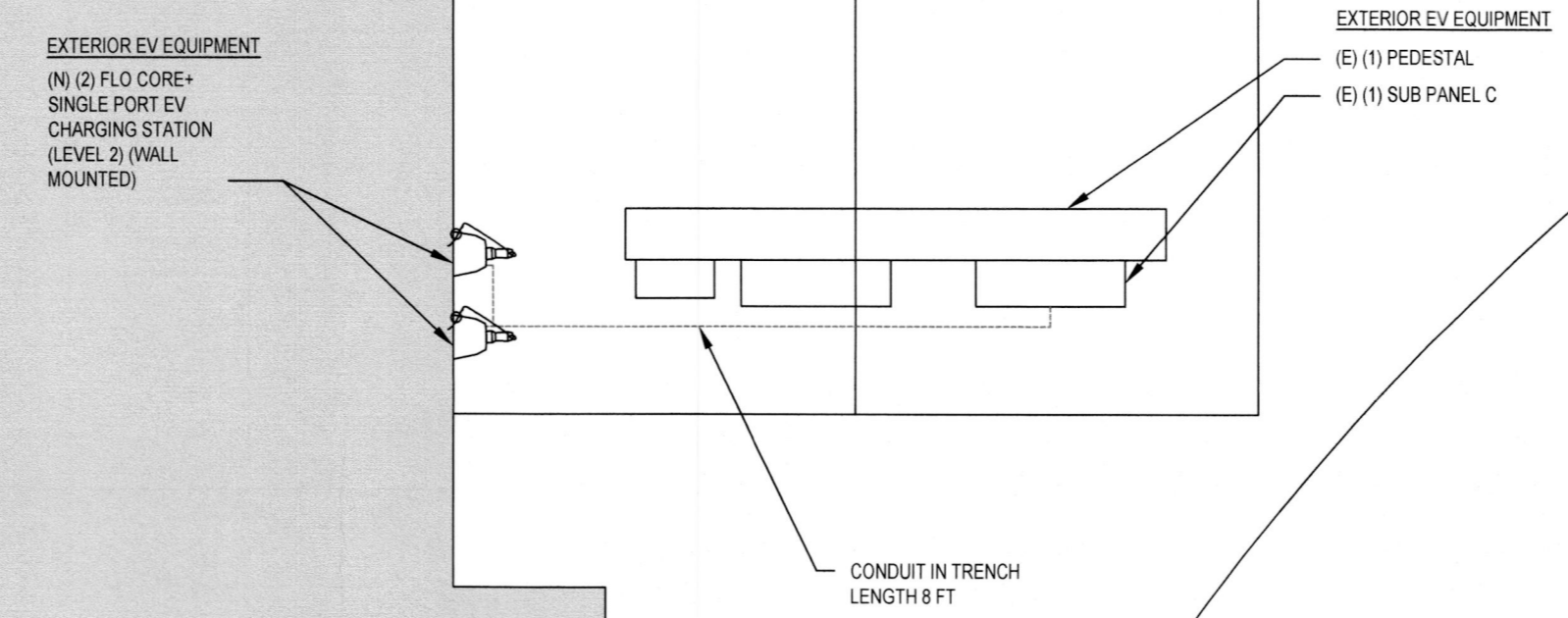
CHECKED BY: L.A.

SHEET NUMBER:

**A-102.00**  
(SHEET 4)



**02 FLO CORE+ DETAILS**  
SCALE: NOT TO SCALE



**01 ELECTRICAL PLAN**  
3/8" = 1'-0" 0 1'-4" 2'-8"  
N  
E  
S  
W



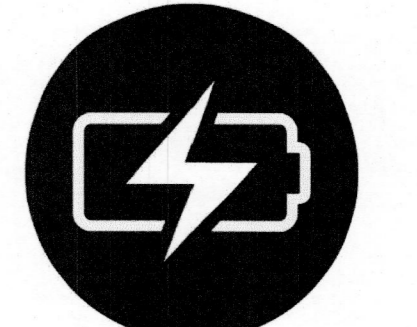
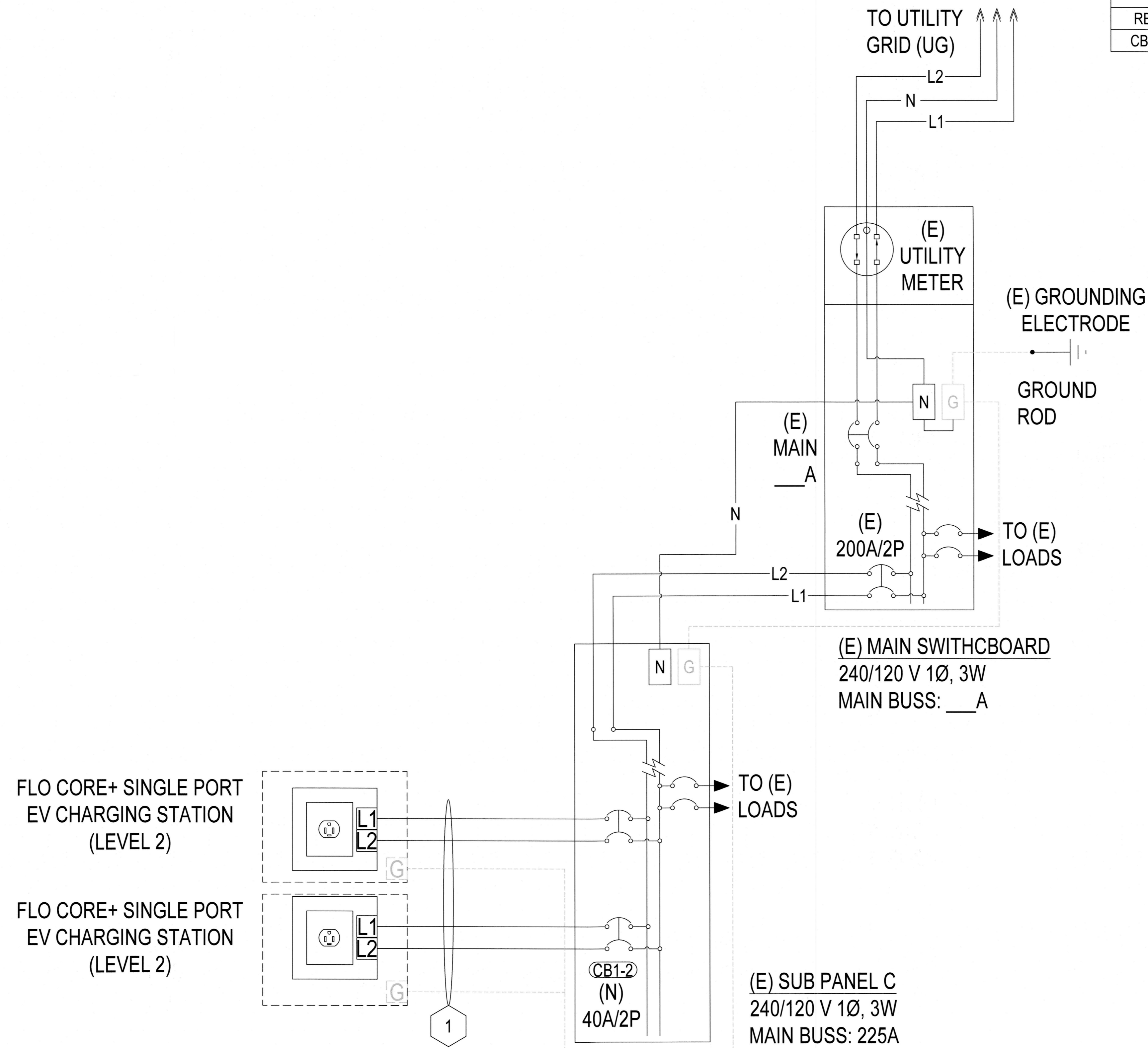
CONDUCTOR AND CONDUIT SCHEDULE W/ELECTRICAL CALCULATIONS

ID	TYPICAL	CONDUCTOR	CONDUIT	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD	EGC	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	CONT. CURRENT	MAX. CURRENT (125%)	BASE AMP.	DERATED AMP.	TERM. TEMP. RATING	AMP. @ TERMINAL	LENGTH	VOLTAGE DROP
1	1	8 AWG THWN-2, COPPER	0.75" DIA PVC-40	4	40A	10 AWG THWN-2, COPPER	1	0.8	30A	37.5A	55A	44A	75°C	50A	12 FT.	0.23%

BILL OF MATERIALS

CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION
EV CHARGE	FLO	CORE+	EV1-2	2	PIECE	1	FLO CORE+ SINGLE PORT EV CHARGING STATION (LEVEL 2)
WIRING		GEN-10-AWG-THWN-2-CU-GR	WR1	24	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING		GEN-8-AWG-THWN-2-CU-RD	WR1	24	FEET	1	8 AWG THWN-2, COPPER, RED (LINE 1)
WIRING		GEN-8-AWG-THWN-2-CU-BLK	WR1	24	FEET	1	8 AWG THWN-2, COPPER, BLACK (LINE 2)
WIREWAY		GEN-PVC-40-0.75" DIA	WW1	12	FEET	1	PVC-40 CONDUIT, 0.75" DIA
OCPD	GENERIC MANUFACTURER	GEN-CB-40A-240VAC	CB1-2	2	PIECE	1	CIRCUIT BREAKER, 40A, 2 POLE, 240VAC

OCPDS			
REF.	QTY.	RATED CURRENT	MAX VOLTAGE
CB1-2	2	40A/2P	240VAC



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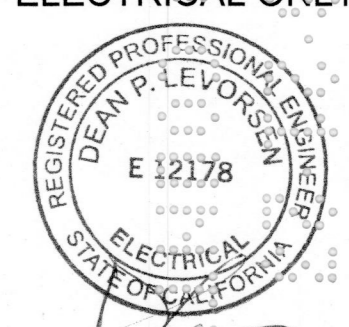
REVISION / RELEASE

NO.	DESCRIPTION	DATE
1	AHJ COMMENTS	06.29.2023

PROJECT

NEW EV SYSTEM  
**OCSO WATER YARD**  
 1935 WILMAR AVE  
 OCEANO, CA 93422  
 APN: 062-261-079

ENGINEER OF RECORD  
**VECTOR**  
 ELECTRICAL ONLY



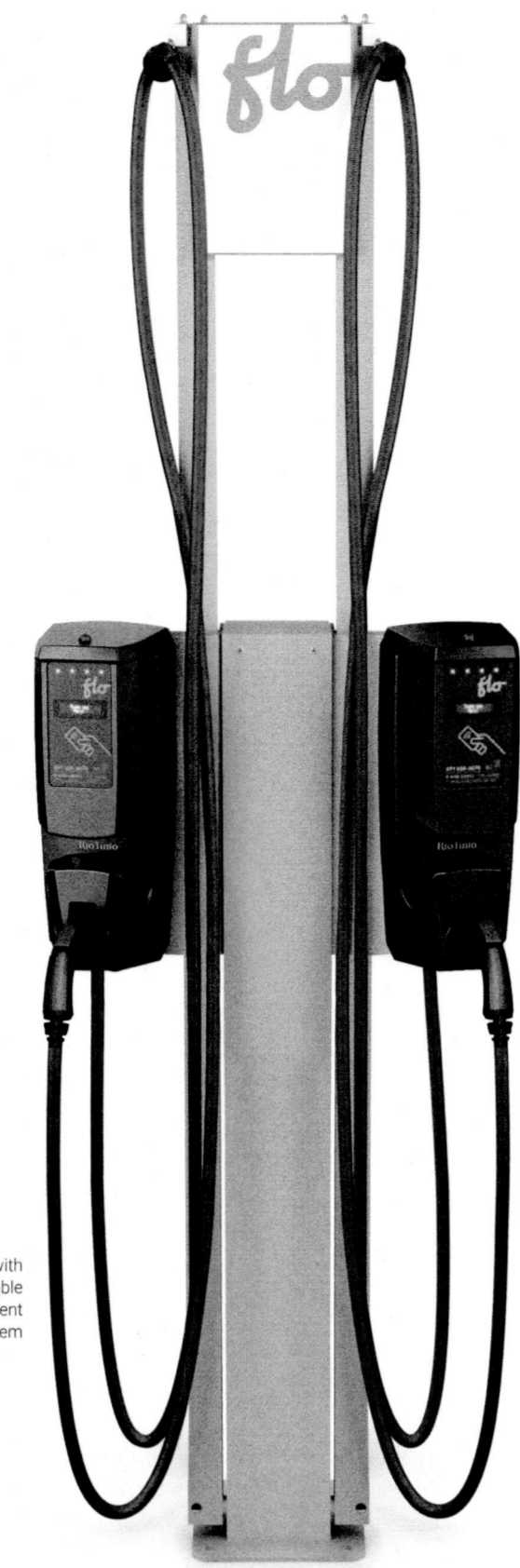
07/11/2023  
 VSE Project Number: U1869.3969.231  
 PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:  
 LINE DIAGRAM

DATE: 04.14.2023  
 DESIGN BY: V.H.  
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**E-601.00**  
 (SHEET 7)

CoRe+™



Shown with optional cable management system



### CoRe+ Smart level 2 charging station for private, public and commercial applications

The CoRe+ charging station is specifically designed for private applications such as workplaces, multi-unit residential buildings, fleets, and is also suitable for public spaces

Choose between the Standard and PowerSharing™ versions of the CoRe+ at acquisition time.

#### Benefits

- **PowerSharing technology (optional) (U.S. Pat. No. 9,927,778)**  
Greatly reduce installation cost by sharing the remaining incremental capacity of an existing electrical infrastructure
- **PowerLimiting™ technology (U.S. Pat. No. 10,197,976)**  
Add multiple charging stations to an existing installation while minimizing the building's peak power demand through:
  - Fixed limits
  - Scheduled limitations
- Rugged and reliable design able to withstand harsh weather

#### Smart Charging Solution

- **Enhanced charging station owner experience** - Complete remote management capabilities including software and firmware updates
- **Enhanced user experience** - Deliver real-time updates and notifications to drivers
- **Revenue generation** - Implement payment services to generate revenue
- **Access control** - Configure stations to authorize access using the FLO mobile app or RFID card authentication, or allow unrestricted access to the station

#### Key features

- Type 4X enclosure cast aluminum casing
- Certified to operate in temperatures ranging from -40 °F to 122 °F / -40°C to +50°C
- Equipped with a charging cable that remains flexible at low temperature
- Wall-mounted and pedestal configuration options. Pedestal configuration helps meet ADA requirements
- Pedestal configuration that helps meet ADA requirements
- Modular design to facilitate servicing and maintenance
- Access provided free of charge or according to a usage fee
- LED status indicator
- Optional cable management system
- Optional cascading kit enables serial daisy-chain connection of multiple charging stations on pedestals and on the same branch circuit
- Software-based field calibration to Meet California Type Evaluation Program requirements

CoRe+™

## Overview

The CoRe+ charging station is designed for applications where multiple charging stations may be necessary now or in the future, such as public sites, workplaces, multi-unit residential buildings (condos and apartments), or commercial fleets. The CoRe+ can be equipped with a cable management system keeping the cables safe and suspended.

#### Future-proof energy management features

##### PowerSharing

- Allows the addition of charging ports (keeping up with the fast paced increase demand for EVSE) for limited electrical infrastructure
- Requires minimal modification to an existing electrical installation. Our technology can power up to 4 times more vehicles than standard installations would allow.

##### PowerLimiting

- Minimize the incremental power demand on the building's infrastructure (which can significantly increase with uncontrolled EVSEs)
- Limits the power drawn from the grid for an entire site based on a schedule.

##### Physical features

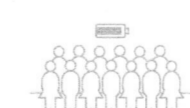
- Rugged charging station able to withstand extreme weather and corrosion
- Thick and sturdy cast aluminum casing
- Universal SAE J1772 connector
- Flexible 21-foot cable (25-foot optional) that remains malleable even during winter's coldest temperatures
- Mounting pedestal helping to meet ADA requirements

## Applications



#### Public sites

For business owners and organizations wanting to provide their customers with first-class charging experience and become a destination of choice, while demonstrating their sustainable development leadership.



#### Workplace

For companies looking to offer an EV charging service to their employees, and looking for a solution that can evolve at the same rate as the demand for the service while maintaining reasonable installation and operation costs.



#### Fleet

For fleet managers who wish to grow their EV fleets without expanding their electrical infrastructure while maintaining the operational costs at an affordable level.

CoRe+™

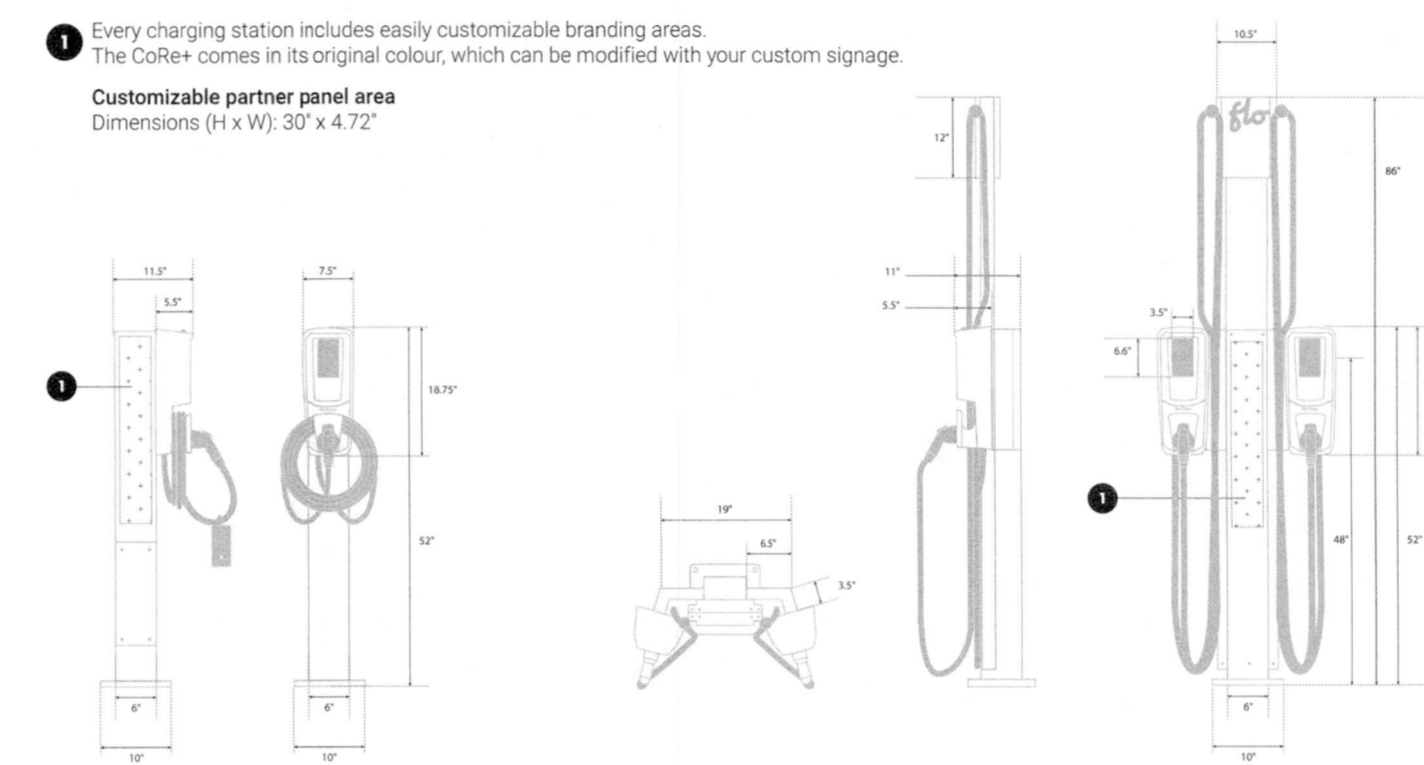
## Available configurations



## Dimensions and customization

- Every charging station includes easily customizable branding areas. The CoRe+ comes in its original colour, which can be modified with your custom signage.

Customizable partner panel area  
Dimensions (H x W): 30" x 4.72"



CoRe+™

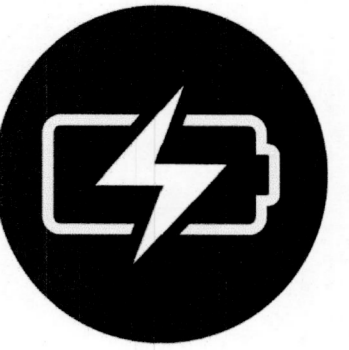
## Technical specifications

	Standard option	PowerSharing™ option
Aluminum casing		Type 4X enclosure
Charging connector	SAE J1772	
Cable	21' (optional 25') / 6.4 m (optional 7.62 m)	
Input Power	Standard: 30 A @ 208 VAC or 240 VAC for each charging station	PowerSharing : 32 A @ 208 VAC or 240 VAC per set of 4 charging stations
Charging power	1.2 kW to 7.2 kW (maximum configurable by software)	
Output current	6 A to 30 A (maximum configurable by software)	
Integrated GFCI	20 mA, auto reset (3 attempts at 15-minute intervals)	
Frequency	60 Hz	
Operating and storage temperature	-40 °F to 122 °F / -40°C to +50°C	
Weight	Charging station: 21 lbs / 9.53 kg; Pedestal: 32 lbs / 14.5 kg Cable management system: 15 lbs / 6.8 kg	
Humidity	Up to 95% (non-condensing)	
Card reader	ISO 14443 A/B, ISO 15693, NFC	
Communication interface	ZigBee - IEEE 802.15.4 meshed network	
Networking	Cellular - LTE (gateway is installed separately for optimal performances)	
Certifications	CSA- C22.2 No. 280 / UL 2594, CSA C22.2 No 281.1 and 281.2 / UL 2231-1 and 2231-2	
EMC compliance	USA - FCC 47 CFR 15 class A CAN - ICES-3 (A)	
Metering Accuracy	Certified according to California Type Evaluation Program (CTEP)	
Model Number (21' Cable)	COCH602EA1-FL-P07	COPS602EA1-FL-P07
Model Number (25' Cable)	COCH102AA1-FL-P07	COPS102AA1-FL-P07

Learn more  
info@flo.com  
1 855 543 8356 flo.com



Designed and manufactured by AddEnergie



CONTRACTOR

CHARGED FUTURE

PHONE: 550-375-5138

ADDRESS:

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NO.	DESCRIPTION	DATE
Δ	AHJ COMMENTS	06.29.2023

#### PROJECT

NEW EV SYSTEM  
**OCSO WATER YARD**

1935 WILMAR AVE  
OCEANO, CA 93422  
APN: 062-261-079

#### ENGINEER OF RECORD



PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:  
RESOURCE DOCUMENT

DATE: 04.14.2023

DESIGN BY: V.H.

CHECKED BY: L.A.

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(SHEET 7)

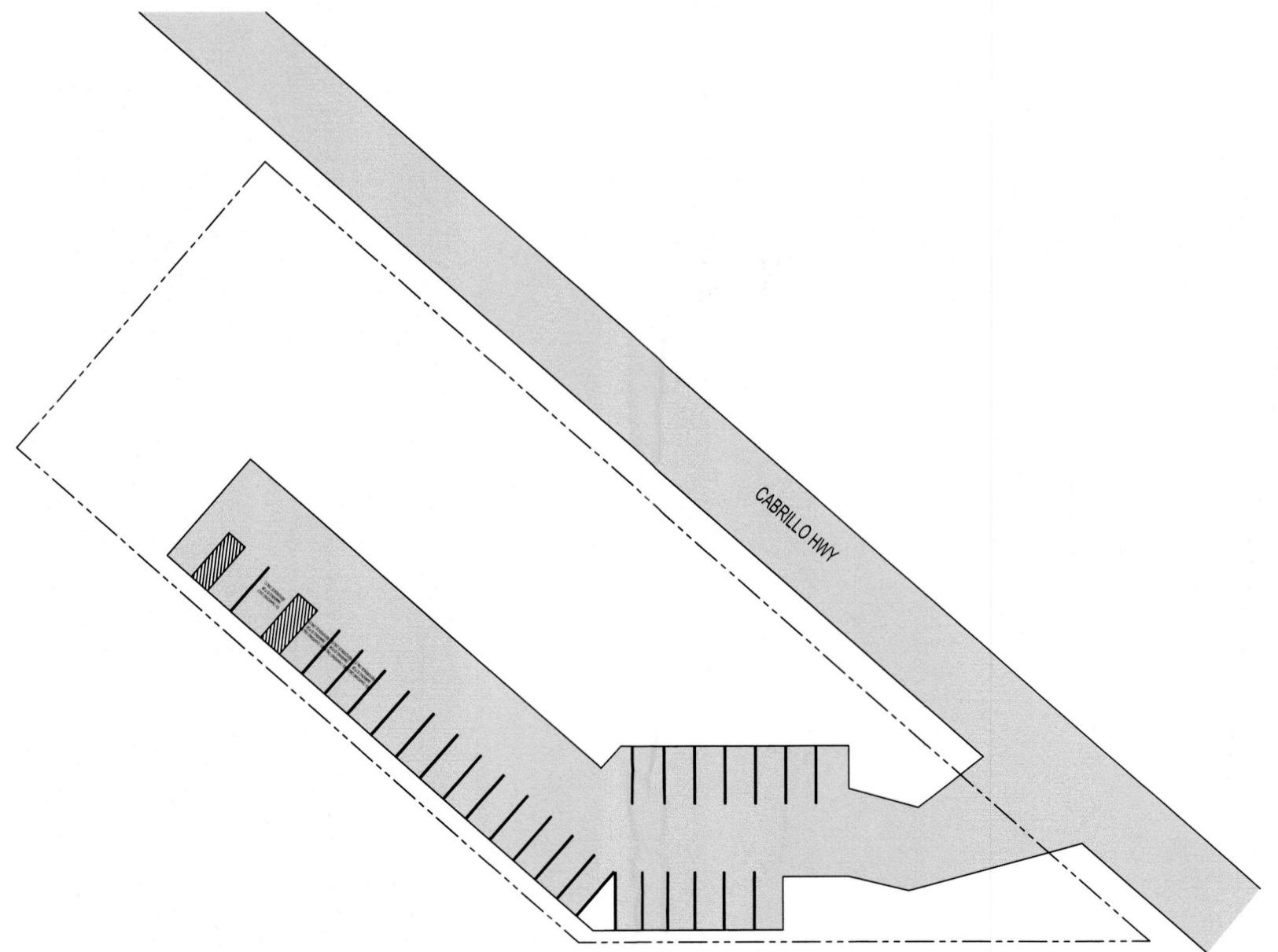
**GENERAL NOTES**

- 1.1.1 PROJECT NOTES
- 1.1.2 THIS ELECTRIC VEHICLE CHARGING SYSTEM SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (NEC) ARTICLE 625, ALL MANUFACTURERS LISTING AND INSTALLATION INSTRUCTIONS, AND THE RELEVANT CODES AS SPECIFIED BY THE AUTHORITY HAVING JURISDICTION (AHJ) APPLICABLE CODES.
- 1.1.3 THE UTILITY INTERCONNECTION APPLICATION MUST BE APPROVED AND ELECTRIC VEHICLE CHARGING SYSTEM INSPECTED PRIOR TO PARALLEL OPERATION.
- 1.1.4 ALL ELECTRICAL MATERIALS, DEVICES, FITTINGS, AND ASSOCIATED EQUIPMENT SHALL BE LISTED FOR SUCH USE.
- 1.1.5 THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL COMPLY WITH NEC 625.15.
- 1.2.1 SCOPE OF WORK
- 1.2.2 PRIME CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND SPECIFICATIONS OF THE VEHICLE CHARGING SYSTEM RETROFIT. PRIME CONTRACTOR WILL BE RESPONSIBLE FOR COLLECTING EXISTING ON-SITE REQUIREMENTS TO DESIGN, SPECIFY, AND INSTALL VEHICLE CHARGING SYSTEM DETAIL IN THIS DOCUMENT.
- 1.3.1 GENERAL REQUIREMENTS
- 1.3.2 OVERCURRENT PROTECTION FOR FEEDERS AND BRANCH CIRCUITS SUPPLYING ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE SIZED PER NEC 625.40.
- 1.3.3 DISCONNECTING MEANS PER NEC 625.42 ELECTRIC VEHICLE SUPPLY EQUIPMENT RATED MORE THAN 80 AMPERES OR MORE THAN 150 VOLTS TO GROUND, THE DISCONNECTING MEANS SHALL BE PROVIDED AND INSTALLED IN A READILY ACCESSIBLE LOCATION, THE DISCONNECTING MEANS SHALL BE LOCKABLE OPEN IN ACCORDANCE WITH 110.22.
- 1.3.4 LOCATION PER NEC 625.50 THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE LOCATED FOR DIRECT ELECTRICAL COUPLING OF THE EV CONNECTOR (CONDUCTIVE OR INDUCTIVE) TO THE ELECTRIC VEHICLE UNLESS SPECIFICALLY LISTED AND MARKED FOR THE LOCATION. THE COUPLING MEANS OF THE ELECTRIC VEHICLE SUPPLY EQUIPMENT SHALL BE STORED OR LOCATED AT A HEIGHT OF NOT LESS THAN 450 MM (18 IN.) ABOVE THE FLOOR LEVEL FOR INDOOR LOCATIONS AND 600 MM (24 IN.) ABOVE THE GRADE LEVEL FOR OUTDOOR LOCATIONS.
- 1.3.5 VENTILATION THE VENTILATION REQUIREMENT FOR CHARGING AN ELECTRIC VEHICLE IN AN INDOOR ENCLOSED SPACE SHALL COMPLY NEC 625.52.
- 1.3.6 PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FROM THE AUTHORITIES HAVING JURISDICTION, THE CONTRACTOR SHALL
- 1.3.8 COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND OPERATING INSTALLATION. PROVIDE ALL LABOR AND
- 1.3.10 MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENSED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
- 1.3.11 PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND
- 1.3.12 OPERATING SYSTEM
- 1.3.13 ALL EQUIPMENT SHALL BE NEW, "UL" LISTED, AND LABELED.
- 1.3.14 THE LOCATION OF UNDERGROUND FACILITIES SHOWN ON THE PLANS ARE BASED ON
- 1.3.15 AVAILABLE DOCUMENTATION PROVIDED. IT SHALL BE THE CONTRACTOR'S FULL
- 1.3.16 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.
- 1.3.17 ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE
- 1.3.18 PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE
- 1.3.19 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.
- 1.3.20 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.
- 1.3.21 ALL DIMENSIONS, GRADES, AND UTILITY LOCATIONS SHOWN ON THESE PLANS WERE
- 1.3.22 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
- 1.3.23 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.
- 1.3.24 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.
- 1.3.25 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.
- 1.3.26 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,
- 1.3.28 APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS
- 1.3.29 INDICATED ON THE DRAWINGS.
- 1.3.30 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.
- 1.3.31 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.
- 1.3.32 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.
- 1.3.33 THE CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 1.3.34 CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT
- 1.3.35 EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST
- 1.3.36 ACCEPTED PRACTICE.
- 1.3.37 THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE OWNER/CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
- 1.3.38 THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS,
- 1.3.39 LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
- 1.3.40 ONLY ITEMS SPECIFICALLY CALLED OUT TO BE REMOVED OR DEMOLISHED SHALL BE
- 1.3.41 AFFECTED. ANY ITEMS INCLUDING, BUT NOT LIMITED TO, CURBS, PAVEMENT, UTILITY
- 1.3.42 ITEMS, LANDSCAPING, ETC. SHALL REMAIN AND BE PROTECTED THROUGHOUT
- 1.3.43 CONSTRUCTION. CONTRACTOR IS RESPONSIBLE TO REPAIR OR REPLACE ANY AFFECTED
- 1.3.44 ITEMS AT OWNERS DISCRETION.
- 1.3.45 CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING
- 1.3.46 CONSTRUCTION AND PROVIDE EROSION AND SEDIMENT CONTROL MEASURES DURING

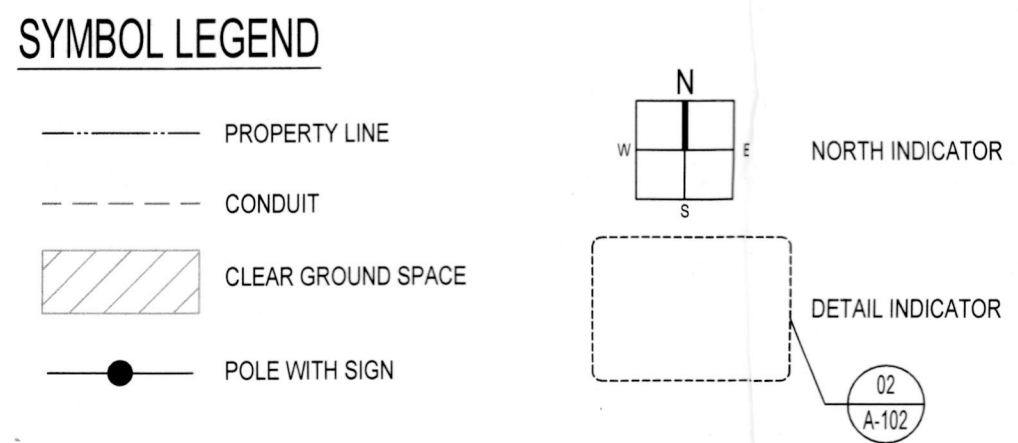
**NEW EV SYSTEM  
OCSD TRAIN DEPOT**  
1650 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-005



**01 AERIAL PHOTO**  
SCALE: NOT TO SCALE



**02 PLAT MAP**  
SCALE: NOT TO SCALE



DISCLAIMER: PLEASE NOTE THAT THE ABBREVIATIONS, ANNOTATIONS, AND SYMBOLS LISTED ARE INTENDED TO ILLUSTRATE THOSE THAT ARE COMMONLY USED; NOT ALL ARE NECESSARILY UTILIZED WITHIN THIS SET OF DRAWINGS.

**SHEET LIST TABLE**

SHEET NUMBER	SHEET TITLE
T-001	COVER PAGE
G-001	NOTES
A-101	SITE PLAN
A-102	ELECTRICAL PLAN
A-103	ELEVATION PLAN
E-001	LINE DIAGRAM
R-001	RESOURCE DOCUMENT

**PROJECT INFORMATION**

**OWNER**  
NAME: OCEANO COMMUNITY SERVICES DISTRICT  
PHONE: 559755138  
E-MAIL:

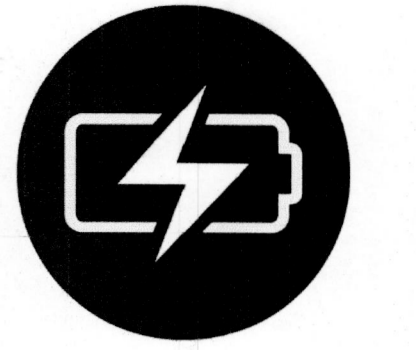
**PROJECT MANAGER**  
NAME:  
PHONE:  
E-MAIL:

**CONTRACTOR**  
NAME: TBD  
PHONE:  
E-MAIL:

**AUTHORITIES HAVING JURISDICTION**  
BUILDING: COUNTY OF SAN LUIS OBISPO  
ZONING: COUNTY OF SAN LUIS OBISPO  
UTILITY: PG&E

**APPLICABLE CODES & STANDARDS**  
BUILDING: CBC 2022  
ELECTRICAL: CEC 2022  
FIRE: CFC 2022

**SCOPE OF WORK**  
SYSTEM SIZE: (2) FLO CORE+ DUAL PORT EV CHARGING STATION (LEVEL 2)



**CONTRACTOR**  
CHARGED FUTURE

PHONE: 559-375-5138  
ADDRESS:  
LIC. NO.:  
UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTORS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO DAMAGES AND PROSECUTIONS.

COUNTY OF SLO PLANNING AND BUILDING  
REVIEWED FOR CODE COMPLIANCE  
By Rosanna Espinoza  
Dean 2023-01296 Date 9/21/23  
The approval of these plans shall not permit violations of county or state laws. The County may revoke this permit or require corrections if they are in error. These approved plans shall be made available when inspections are requested. All changes must be approved.

**REVISION / RELEASE**

NO.	DESCRIPTION	DATE
Δ	AHJ COMMENTS	07.06.2023
Δ	AHJ COMMENTS	07.25.2023
Δ	CONTRACTOR COMMENTS	08.01.2023

**PROJECT**

NEW EV SYSTEM  
**OCSD TRAIN DEPOT**  
1650 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-005

**ENGINEER OF RECORD**



08/11/2023  
VSE Project Number: U1869.3970.231  
PAPER SIZE: 36" x 24" (ARCH D)

**SHEET TITLE:** COVER PAGE

DATE: 04.14.2023  
DESIGN BY: VH  
CHECKED BY: LA  
SHEET NUMBER:

**T-001.00**  
(SHEET 1)

THE SCOPE OF WORK BY VECTOR STRUCTURAL ENGINEERING IS LIMITED TO THE DESIGN OF THE FOUNDATION AND ANCHORAGE OF THE EV CHARGER AND BOLLARD. MECHANICAL, ARCHITECTURAL, AND ALL OTHER NONSTRUCTURAL ASPECTS OF THE DESIGN ARE BY OTHERS. ELECTRICAL IS BY OTHERS UNLESS STAMPED BY DEAN LEVORSEN

ELECTRICAL NOTES

2 GENERAL  
 2.1.1. CONDITIONS  
 2.1.2 FURNISH AND INSTALL A COMPLETELY WIRED AND OPERATIONAL ELECTRICAL SYSTEM AS SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN.  
 2.2.1. CODES, REGULATIONS, AND STANDARDS  
 2.2.2 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).  
 2.3.1. INSPECTION OF SITE  
 2.3.2. 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.  
 2.4.1. STORAGE AND HANDLING OF MATERIAL  
 2.4.2. 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.  
 2.4.3. 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.  
 2.5.1. DRAWINGS  
 2.5.2 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.  
 2.6.1. EXCAVATION, CUTTING, AND FITTING  
 2.6.2. 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.  
 3 PRODUCTS AND EXECUTION  
 3.1.1. MATERIALS  
 3.1.2 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.  
 3.2.1. CONDUIT  
 3.2.2. RACEWAYS: UNLESS NOTED OTHERWISE, ALL EXPOSED CONDUIT SHALL BE RGS, 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.  
 3.2.3. ALL WIRING SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE MINIMUM OF 3/4".  
 3.2.4. 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.  
 3.2.5. OUTLET BOXES SHALL BE CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.  
 3.2.6. PROVIDE METAL CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ALFLEX CORPORATION; ANAMET INCORPORATED; ANACONDA METAL HOSE; ANIXET BROTHERS INCORPORATED; CAROL CABLE COMPANY INCORPORATED; ELECTRIC-FLEX COMPANY; GRINNELL COMPANY; ALLIED TUBE AND CONDUIT DIVISION; MONOGRAM COMPANY; AFC; REPUBLIC CONDUIT; OR WHEATLAND TUBE COMPANY.  
 3.2.7. PROVIDE NONMETALLIC CONDUIT AND TUBING MANUFACTURED BY ONE OF THE FOLLOWING: ANAMET INCORPORATED; ANACONDA METAL HOSE; CANTEX INDUSTRIES; HARCSCO CORPORATION; CONDUX INTERNATIONAL ELECTRICAL PRODUCTS; HUBBELL INCORPORATED; RACO, INCORPORATED; THOMAS & BETTS CORPORATION; CARLON ELECTRICAL PRODUCTS, OR O-ZIGEDNEY, UNIT OF GENERAL SIGNAL.  
 3.2.8. 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 &

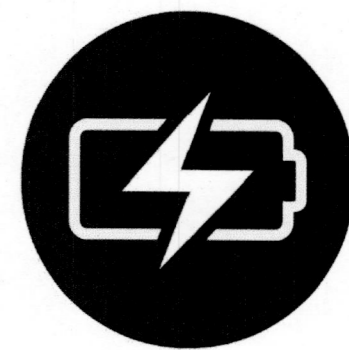
BETTS CORPORATION, CARLON ELECTRICAL PRODUCTS, OR O-ZIGEDNEY, UNIT OF GENERAL SIGNAL.  
 3.2.9. PROVIDE METAL WIREWAYS MANUFACTURED BY ONE OF THE FOLLOWING: HOFFMAN ENGINEERING COMPANY; KEYSTONE/ERES, INCORPORATED; OR SQUARED D COMPANY.  
 3.2.10. PROVIDE BOXES, ENCLOSURES, AND CABINETS MANUFACTURED 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-ZIGEDNEY, UNIT OF GENERAL SIGNAL; ROBROY INDUSTRIES INCORPORATED; ELECTRICAL DIVISION; OR SCOTT FETZER COMPANY; ADALTE-PLM.  
 3.2.11. EXPOSED CONDUITS SHALL BE RGS BELOW 10 FEET AND CAN BE EMT ABOVE 10 FEET. THREADED COUPLINGS ON RGS AND STEEL, COMPRESSION ON EMT.  
 3.3.1. OUTLET, PULL, AND JUNCTION BOXES  
 3.3.2. 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.  
 3.3.3. BOXES INSTALLED IN POURED CEMENT FLOORS SHALL BE FLUSH TYPE CAST IRON OR STEEL WITH WATERIGHT 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.  
 3.3.4. ALL JUNCTION BOXES TO BE CAST METAL TYPE FD OR TYPE FS ONLY.  
 3.4.1. SWITCHBOARDS  
 3.4.2. 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.  
 3.4.3. CONSTRUCTION: INTEGRATED SWITCHBOARD SHALL BE OF THE MODULAR TYPE CONSTRUCTION, CONSTRUCTED IN ACCORDANCE WITH THE LATEST NEMA PB-2 AND UL 891 STANDARDS, 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.  
 3.4.4. BUS: THE BUS SHALL BE OF SUFFICIENT SIZE TO LIMIT THE TEMPERATURE RISE TO 65 DEGREE C, BASED ON UL TESTS (1000A/90-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.  
 3.4.5. 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 BUSSUED TYPE AND SHALL BE SEALABLE PER LOCAL UTILITY REQUIREMENTS, WHEN REQUIRED.  
 3.4.6. 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.  
 3.4.7. UTILITY METERING: THE UTILITY METERING SECTION SHALL BE BUILT IN ACCORDANCE WITH REQUIREMENTS AND CODES OF THE LOCAL UTILITY.]  
 3.4.8. 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.  
 3.4.9. FINISH: THE COMPLETE SWITCHBOARD SHALL BE PHOSPHATIZED AND FINISHED WITH ANSI 61 LIGHT GRAY POLYESTER POWDER PAINT.  
 3.4.10. 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.  
 3.5.1. PANEL BOARDS  
 3.5.2. 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.  
 3.5.3. 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.  
 3.5.4. MOLDED CASE CIRCUIT BREAKERS SHALL BE AS SCHEDULED ON THE DRAWINGS AND SPECIFIED IN THIS DIVISION. ALL BREAKERS SHALL BE BOLT ON TYPE.  
 3.5.5. ALL BOLTED CONNECTIONS SHALL BE TORQUED IN ACCORDANCE WITH MANUFACTURERS STANDARDS. RETORQUE ALL CONNECTIONS ONE MONTH AFTER INITIAL TORQUE.  
 3.5.6. INSTALL CABINETS SO THAT CENTER OF THE TOP BREAKER DOES NOT EXCEED 6'-6" ABOVE THE FINISHED FLOOR.  
 3.5.7. 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.  
 3.5.8. MANUFACTURER SHALL BE SQUARE D, SIEMENS, OR EATON CUTLER-HAMMER.  
 3.6.1. METERED COMMERCIAL PEDESTAL  
 3.6.2. ACCEPTABLE MANUFACTURER: MILBANK OR APPROVED EQUAL AMPACITY. AS NOTED ON PLANS VOLTAGE: AS NOTED ON PLANS SCOR RATING. AS NOTED ON PLANS  
 3.6.3. 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.  
 3.6.4. 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.  
 3.6.5. THE SERVICE PEDESTAL MUST HAVE THREE SEPARATE ISOLATED SECTIONS FOR METERING EQUIPMENT, UTILITY TERMINATION AND CUSTOMER EQUIPMENT.  
 3.6.6. 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.  
 3.6.7. 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.  
 3.6.8. THE CUSTOMER COMPARTMENT DOOR TO BE HINGED ON THE LEFT-HAND SIDE. A STAINLESS-PAD-LOCKABLE HASP PROVIDED TO SECURE CUSTOMER COMPARTMENT. A DOOR KEYPAD 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.  
 3.6.9. THE PROVIDED DOCUMENTATION SHALL LIST CIRCUIT BREAKER COMBINATIONS AND THOSE TO BE USED FOR DE-RATED OPERATION FOR SERIES RATINGS.  
 3.7.1. TRANSFORMERS  
 3.7.2. ACCEPTABLE MANUFACTURER: EATON OR APPROVED EQUAL DRY TYPE, INDOOR/OUTDOOR, CONVECTION-COOLED, TRANSFORMER CHARACTERISTICS AS FOLLOWS:  
 1. RATING & VOLTAGES: AS INDICATED ON DRAWINGS  
 2. IMPEDANCE AT 115C: STANDARD  
 3. PRIMARY AND SECONDARY COIL MATERIAL: COPPER  
 4. CORE MATERIAL: HIGH-GRADE, NON-AGING, SILICON ELECTRICAL STEEL  
 5. ANGULAR DISPLACEMENT: SECONDARY LAGGING PRIMARY BY 30 (IEC DY1)  
 6. VOLTAGE TAPS: 2 - 2% FCAN, 2 - 2% FCBN, SILVER PLATED. TAPS TO BE BOLTED-LINK TYPE AND LOCATED AT FRONT OF COILS FOR ACCESSIBILITY AREA  
 7. INSULATION CLASS: 220°C  
 8. TEMPERATURE RISE: 150°C  
 9. PROVIDE MEANS FOR SECURING ALL CONDUCTORS WITHIN ENCLOSURE.  
 10. EFFICIENCY: 97.89% MINIMUM PER DOE 2016 EFFICIENCY LEVELS (CFR TITLE 10)  
 11. ENCLOSURE: MINIMUM NEMA 3R OR 4X TO SUIT ENVIRONMENT.  
 12. 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.  
 3.8.1. CONDUCTORS AND CABLES  
 3.8.2. 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 AMPACITIES 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 UN.O.  
 3.8.3. 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%).  
 3.8.4. PROVIDE A SEPARATE NEUTRAL FOR EACH BRANCH CIRCUIT, FEEDER, ETC. NEUTRALS ARE NOT PERMITTED TO BE SHARED.  
 3.8.5. 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.  
 3.8.6. 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.  
 3.8.7. MC CABLE IS NOT PERMITTED.  
 3.8.8. 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  
 3.8.1. PROVIDE WIRE AND CABLE MANUFACTURED BY ONE OF THE FOLLOWING: AMERICAN INSULATED WIRE CORPORATION; NEXANS; CERROWIRE; SOUTHWIRE; OR ENCORE WIRE.  
 3.8.2. PROVIDE CONNECTORS MANUFACTURED BY ONE OF THE FOLLOWING: AMP INCORPORATED; GENERAL SIGNAL, O-ZIGEDNEY UNIT, SQUARE D COMPANY, ANDERSON; LISCO; OR BURNDY.  
 3.9.1 ALUMINUM CONDUCTOR REQUIREMENTS  
 3.9.2 ALUMINUM CONDUCTOR GRADE SHALL BE MINIMUM AA-8000 OR NEWEST ALUMINUM CONDUCTOR SPECIFICATION BEING USED BY THE INDUSTRY.  
 3.9.3. THE CONTRACTOR SHALL ABIDE BY ALL ARTICLES RELATED TO ALUMINUM CONDUCTORS IN THE LATEST ISSUE OF THE NEC.  
 3.9.4. 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.  
 3.9.5. 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 NECAAA-2006, WHICH DEFINES MINIMUM STANDARDS OF QUALITY AND WORKMANSHIP. A SUMMARY OF SOME OF THE REQUIREMENTS FOLLOWS:  
 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. NECAAA RECOMMENDS BELLVILLE WASHERS WHEN CONNECTING ALUMINUM CONDUCTORS TO COPPER BUS BARS. ABIDE BY ALL NECAAA 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.  
 4 WIRING DEVICES  
 4.1.1. GENERAL  
 4.1.2. WALL SWITCHES SHALL BE SPECIFICATION GRADE AC SILENT TYPE SWITCHES, 20A, 120/277 VOLT.  
 4.1.3. 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.  
 4.1.4. DEVICE PLATES SHALL BE EQUAL TO SIERRA SMOOTH-LINE PLASTIC WALL PLATES. COLOR SHALL BE WHITE, UNLESS OTHERWISE NOTED.  
 4.2.1. SAFETY SWITCHES  
 4.2.2. ALL DISCONNECT SWITCHES SHALL BE HEAVY-DUTY CONSTRUCTION WITH LOCKABLE HANDLES SIZED AS NOTED ON THE DRAWINGS. PROVIDE NEMA ENCLOSURE AS REQUIRED BY AND AMBIENT CONDITIONS. ALL FUSIBLE SWITCHES SHALL BE PROVIDED WITH DUAL ELEMENT FUSES SIZED PER THE EQUIPMENT MANUFACTURER'S RECOMMENDATION.  
 4.3.1. FUSES  
 4.3.2. FUSED SHALL BE DUAL ELEMENT, TIME DELAY CURRENT LIMITING. CONTRACTOR SHALL COORDINATE FUSE SIZES WITH EQUIPMENT MANUFACTURER'S REQUIREMENTS AND PER THE NEC.  
 4.3.3. PROVIDE FUSES MANUFACTURED FROM ONE OF THE FOLLOWING: COOPER BUSSMAN, INCORPORATED; EAGLE ELECTRIC MANUFACTURING COMPANY INCORPORATED; COOPER INDUSTRIES INCORPORATED; FERRAZ SHAWMUT INCORPORATED.  
 4.4.1. ELECTRICAL IDENTIFICATION  
 4.4.2. PROVIDE ENGRAVED PHENOLIC PLASTIC NAMEPLATES FOR ALL MAJOR ELECTRICAL EQUIPMENT (INCLUDED BUT NOT LIMITED TO TRANSFORMERS, DISCONNECT SWITCH, SWITCHBOARD, PANELBOARD, CHARGING CABINET, CHARGE POST, OVER-CURRENT PROTECTION DEVICE IN MAIN SWITCHBOARD, ETC.) AND ON EQUIPMENT AS DIRECTED BY OWNER.  
 4.4.3. 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.  
 4.4.4. COLOR CODING OF CONDUCTORS SHALL BE PER THE NEC AND OWNERS REQUIREMENTS.  
 4.4.5. 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".  
 4.5.1. SYSTEM GROUNDING AND BONDING  
 4.5.2. 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.  
 4.5.3. 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.  
 4.5.4. 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.  
 4.5.5. 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.  
 4.5.6. 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.  
 4.5.7. EQUIPMENT GROUNDING CONDUCTORS SHALL BE INSULATED WITH GREEN-COLORED INSULATION.  
 4.5.8. GROUNDING ELECTRODE CONDUCTORS SHALL BE STRANDED CABLE.  
 4.5.9. MATERIALS AND CONNECTION COMPONENTS FOR GROUNDING AND BONDING SHALL BE MANUFACTURED BY ERICO, THOMAS & BETTS, BURNDY, OR EQUAL.  
 4.6.1. FIRESTOPPING AND SEALING ELECTRICAL PENETRATIONS  
 4.6.2. CONTRACTOR SHALL FURNISH AND INSTALL FIRESTOPPING FOR SEALING AROUND ELECTRICAL PENETRATIONS THROUGH FIRE OR SMOKE BARRIERS AND FLOORS.  
 4.6.3. 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.  
 4.6.4. 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.  
 4.6.5. 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.  
**CONSTRUCTION NOTES**  
 5.1.1. CONCRETE MASONRY NOTES  
 5.1.2. CONCRETE MASONRY UNITS SHALL BE MEDIUM WEIGHT UNITS CONFORMING TO ASTM C90, GRADE N-1, (FM-1,500 PSI), MEDIUM WEIGHT, (115 PCF)  
 5.1.3. MORTAR SHALL BE TYPE "S" ABOVE GRADE, TYPE "M" BELOW GRADE CONFORMING TO ASTM C270, (MINIMUM 2,000 PSI AT 28 DAYS)  
 5.1.4. GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS CONFORMING TO ASTM C476.  
 5.1.5. ALL CELLS CONTAINING REINFORCING STEEL OR EMBEDDED ITEMS, ALL CELLS IN RETAINING WALLS, AND WALLS BELOW GRADE SHALL BE SOLID GROUTED.  
 5.1.6. ALL HORIZONTAL REINFORCEMENT SHALL BE PLACED IN BOND BEAM OR LINTEL BEAM UNITS.  
 5.1.7. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE GROUT POUR 1-1/2" BELOW TOP OF THE UPPERMOST UNIT.  
 5.1.8. ALL BOND BEAM BLOCK SHALL BE "DEEP CUT" UNITS.  
 5.1.9. PROVIDE INSULATION AND CLEAN-OUT HOLES AT BASE OF VERTICAL CELLS HAVING GROUT LIFTS IN EXCESS OF 4'-0" OF HEIGHT.  
 5.1.10. ALL GROUT SHALL BE CONSOLIDATED WITH A MECHANICAL VIBRATOR.  
 5.1.11. CEMENT SHALL BE AS SPECIFIED FOR CONCRETE.  
 5.1.12. REINFORCING BARS - SEE NOTES UNDER "REINFORCED CONCRETE NOTES" FOR REQUIREMENTS. REINFORCEMENT SHALL BE PLACED PRIOR TO GROUTING. LAP SPLICES SHALL BE 48 BAR DIAMETERS, MINIMUM.  
 5.1.13. PROVIDE ONE BAR DIAMETER (A MINIMUM OF 1/2") GROUT BETWEEN MAIN REINFORCING AND MASONRY UNITS.  
 5.1.14. LOW LIFT CONSTRUCTION, MAXIMUM GROUT POUR HEIGHT IS 4 FEET.  
 5.1.15. HIGH LIFT GROUTED CONSTRUCTION MAY BE USED IN CONFORMANCE WITH PROJECT SPECIFICATIONS AND SECTION 2104 OF IBC.  
 5.1.16. ALL CELLS IN CONCRETE BLOCKS SHALL BE FILLED SOLID WITH GROUT EXCEPT AS NOTED IN THE DRAWINGS OR SPECIFICATIONS.  
 5.1.17. CELLS SHALL BE IN VERTICAL ALIGNMENT, DOWELS IN FOOTINGS SHALL BE SET TO ALIGN WITH CELLS CONTAINING REINFORCING STEEL.  
 5.1.18. REFER TO DRAWINGS FOR SURFACE AND HEIGHT OF UNITS, LAYING PATTERN AND JOINT TYPE.  
 5.1.19. SAND SHALL BE CLEAN, SHARP AND WELL GRADED, FREE FROM INJURIOUS AMOUNTS OF DUST, LUMPS, SHALE, ALKALI OR ORGANIC MATERIAL.  
 5.2.10. ALL MORTAR FIN OBSTRUCTIONS AND DEBRIS SHALL BE CLEANED FROM INSIDE OF CELLS PRIOR TO GROUTING.  
 5.2.1 REINFORCED CONCRETE NOTES  
 5.2.2. CONCRETE SHALL ATTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI IN 28 DAYS UNLESS OTHERWISE NOTED. CONTINUOUS INSPECTION IS

NOT REQUIRED. SLUMP: 4" MIN / 6" MAX. AIR ENTRAINMENT: 4 1/2% - 7% BY VOLUME  
 5.2.3. REINFORCEMENT SHALL BE A NEW BILLET STEEL DEFORMED BARS CONFORMING TO ASTM SPECIFICATION A615 GRADE 60, MAXIMUM COARSE AGGREGATE SIZE SHALL BE 3/4".  
 5.2.4. REINFORCEMENT SHALL COMPLY WITH THE LATEST EDITION OF ACI 318 FOR MINIMUM CLEARANCES.  
 5.2.5. ALL EMBEDDED ITEMS SHALL BE SECURELY HELD IN POSITION PRIOR TO PLACEMENT OF CONCRETE. ALL CONCRETE SHALL BE READY-MIXED IN ACCORDANCE WITH ASTM C94.  
 5.2.6. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FAHRENHEIT.  
 5.2.7. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE.  
 5.2.8. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A186.  
 5.2.9. EXCEPT AS DETAILED OR AUTHORIZED, MAKE BARS CONTINUOUS AROUND CORNERS WHERE PERMITTED. SPLICES MADE BY CONTACT LAPS SHALL BE CLASS "B" TENSION LAPS UNLESS NOTED OTHERWISE.  
 5.2.10. DETAIL BARS IN ACCORDANCE WITH "ACI DETAILING MANUAL", PUBLICATION SP-66 AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318.  
 5.2.11. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORMING.  
 5.2.12. EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE CONCRETE PAD ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PRE-FABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.  
 5.3. ANCHORAGE INSTALLATION NOTES  
 5.3.2. DRILLING THROUGH EXISTING SLAB REBAR DURING POST-INSTALLED ANCHOR BOLTS INSTALLATION IS NOT PERMITTED.  
 5.3.3. POST-INSTALLED ANCHOR BOLT INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER THE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPI), AS INCLUDED IN THE ANCHOR PACKAGING.  
 5.3.4. EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS USING STANDARD EMBEDMENTS AND EDGE DISTANCES UNLESS NOTED OTHERWISE ON THE DRAWINGS.  
 5.4. CONCRETE SIDEWALK CONSTRUCTION REQUIREMENTS  
 5.4.2. PLACING AND FINISHING CONCRETE  
 THE CONTRACTOR SHALL PROVIDE ADEQUATE TOOLS AND EQUIPMENT TO REDUCE QUALITY WORKMANSHIP IN PLACING AND FINISHING CONCRETE. THE SIDEWALK AND RAMPS SHALL BE FINISHED TO THE TOP OF THE FORMS AND THE SURFACE FINISHED  
 WITH A WOOD OR STEEL FLOAT AND SURFACE TEXTURE SHALL BE A COURSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE SIDEWALK OR RAMP. NO "PLASTERING" OF THE SURFACE SHALL BE PERMITTED.  
 5.4.3. CONTRACTION JOINTS  
 THE SIDEWALK SURFACE SHALL BE MARKED OFF INTO NOMINAL SQUARES OF DIMENSION TO THE WIDTH OF THE SIDEWALK WITH A MAXIMUM DISTANCE BETWEEN JOINTS OF SEVEN FEET SAWING JOINTS, THE CONTRACTOR SHALL BEGIN AS SOON AS THE CONCRETE HARDENS SUFFICIENTLY TO PREVENT EXCESSIVE RAVELING ALONG THE SAW CUT AND SHALL FINISH BEFORE CONDITIONS INDUCE UNCONTROLLED CRACKS, REGARDLESS OF THE TIME OR WEATHER.  
 5.4.4. EXPANSION JOINTS  
 EXPANSION JOINTS SHALL BE CONSTRUCTED AT LOCATIONS WHERE THE SIDEWALK ABUTS EXISTING CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES, AND EVERY TWO HUNDRED FIFTY FEET AND AS SHOWN ON APPROVED PLANS. EXPANSION JOINTS SHALL BE FORMED WITH ONE-HALF INCH PREFABRICATED NON-EXTRUDING FILLER AND SHALL EXTEND THE FULL DEPTH OF THE SLAB.



CONTRACTOR

CHARGED FUTURE

PHONE: 559-375-1138  
 ADDRESS:

LIC. NO.:  
UNAUTHORIZED USE OF THIS DRAWING SET WITHOUT WRITTEN PERMISSION FROM CONTRACTOR IS IN VIOLATION OF U.S. COPYRIGHT LAWS AND WILL BE SUBJECT TO CIVIL DAMAGES AND PROSECUTIONS.

REVISION / RELEASE

NO.	DESCRIPTION	DATE
1	AHJ COMMENTS	07.06.2023
2	AHJ COMMENTS	07.25.2023
3	CONTRACTOR COMMENTS	08.01.2023

PROJECT

NEW EV SYSTEM

OCSD TRAIN DEPOT

1650 FRONT STREET  
 OCEANO, CA 93422  
 APN: 062-271-005

ENGINEER OF RECORD



08/11/2023

VSE Project Number: U1869.3970.231  
 PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE: NOTES

DATE: 04.14.2023

DESIGN BY: V.H.

CHECKED BY: L.A.

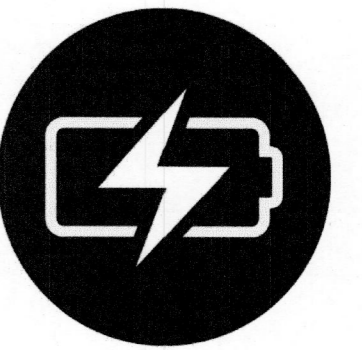
SHEET NUMBER:

G-001.00  
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**GENERAL NOTES**

1. FIELD VERIFY ALL MEASUREMENTS
2. ITEMS BELOW MAY NOT BE ON THIS PAGE



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**REVISION / RELEASE**

NO.	DESCRIPTION	DATE
△	AHJ COMMENTS	07.06.2023
△	AHJ COMMENTS	07.25.2023
△	CONTRACTOR COMMENTS	08.01.2023

**PROJECT**

NEW EV SYSTEM

**OCS D TRAIN DEPOT**

1650 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-005

**ENGINEER OF RECORD**



851 W. GALENA PARK BLVD. STE. 101 PHONE (801) 992-1775 DRAPER, UTAH 84020 WWW.VECTORENG.COM



08/11/2023

VSE Project Number: U1869-3970.231

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:

SITE PLAN

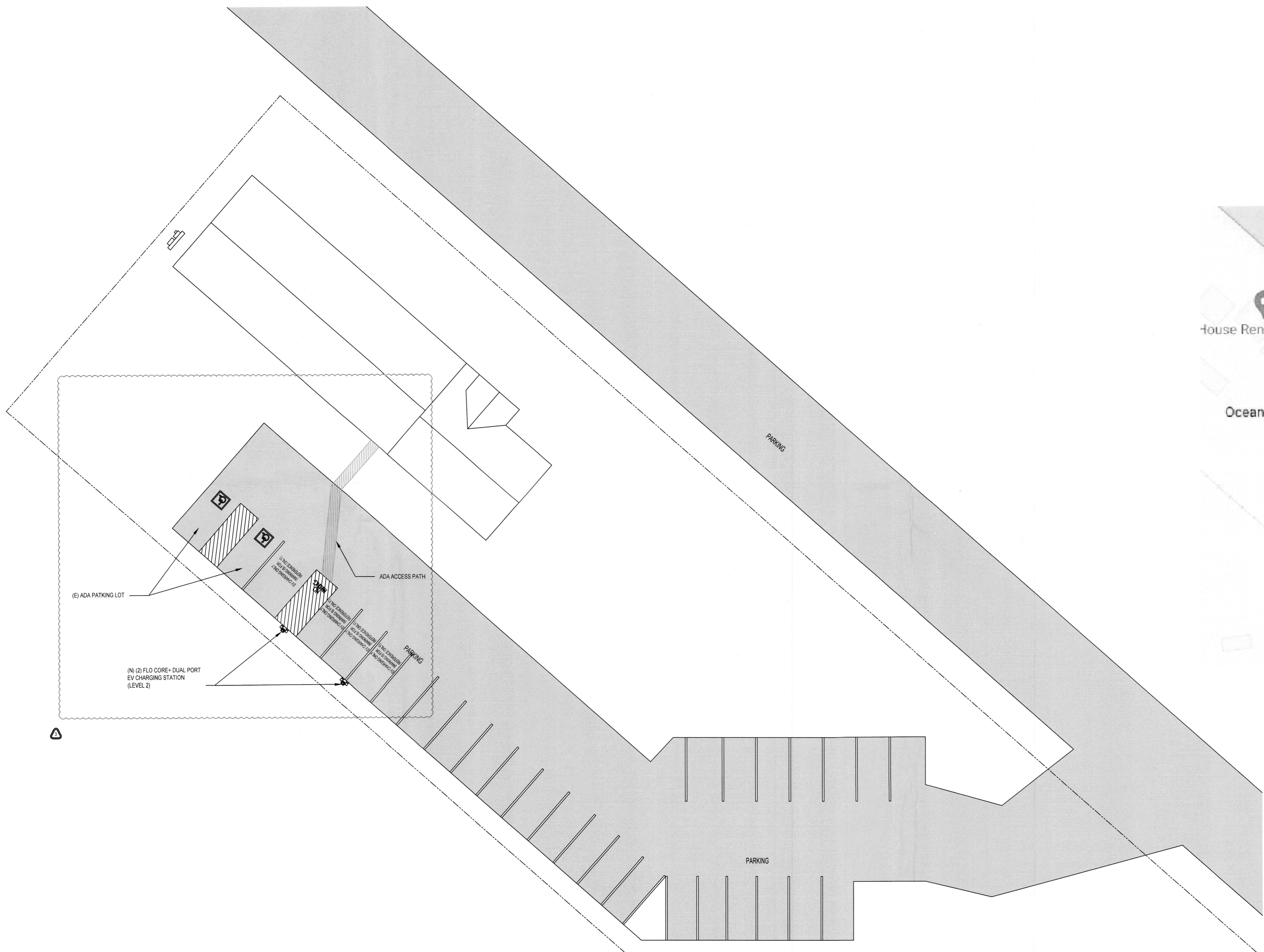
DATE: 04.14.2023

DESIGN BY: V.H.

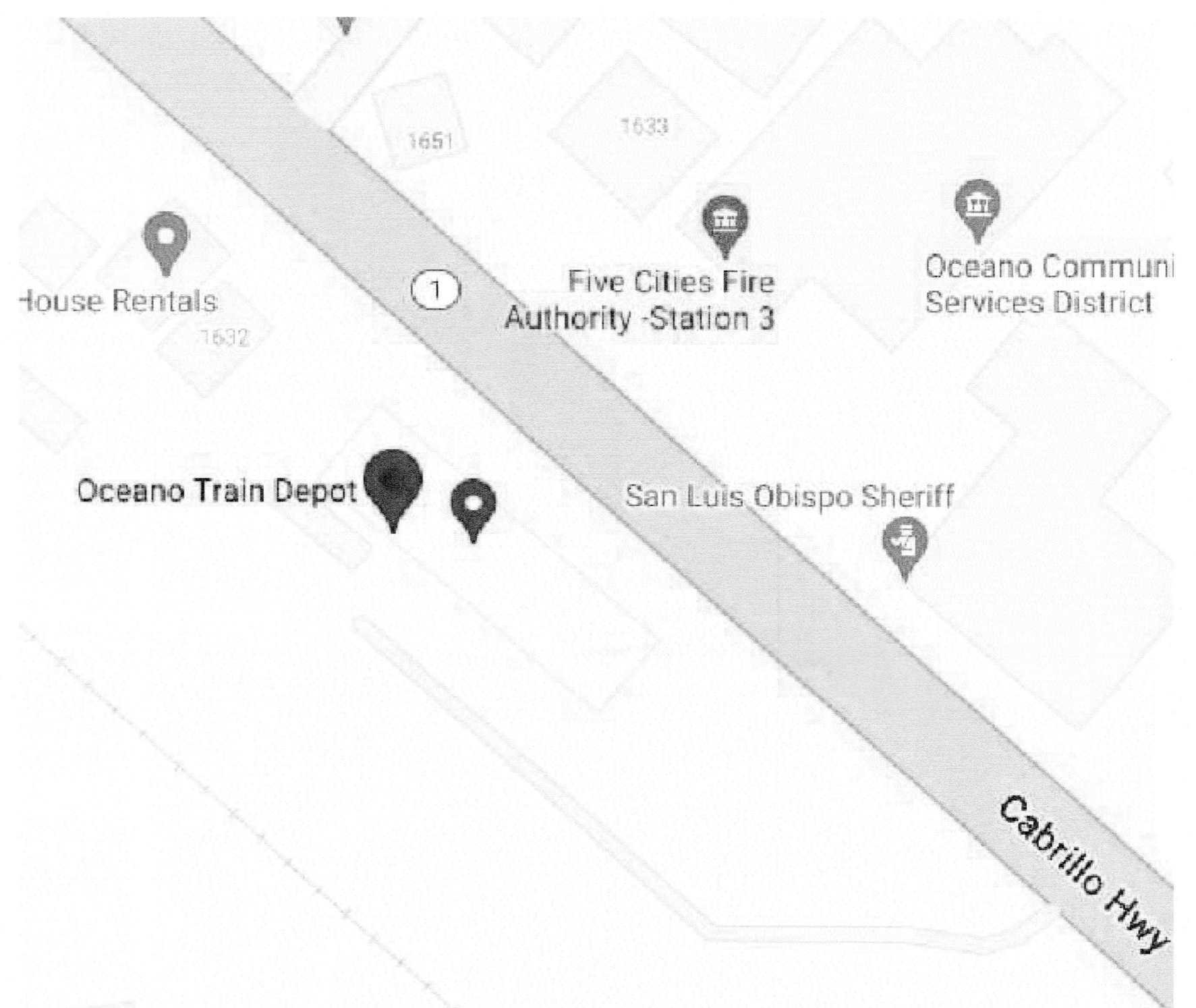
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SHEET NUMBER:

**A-101.00**  
(SHEET 3)

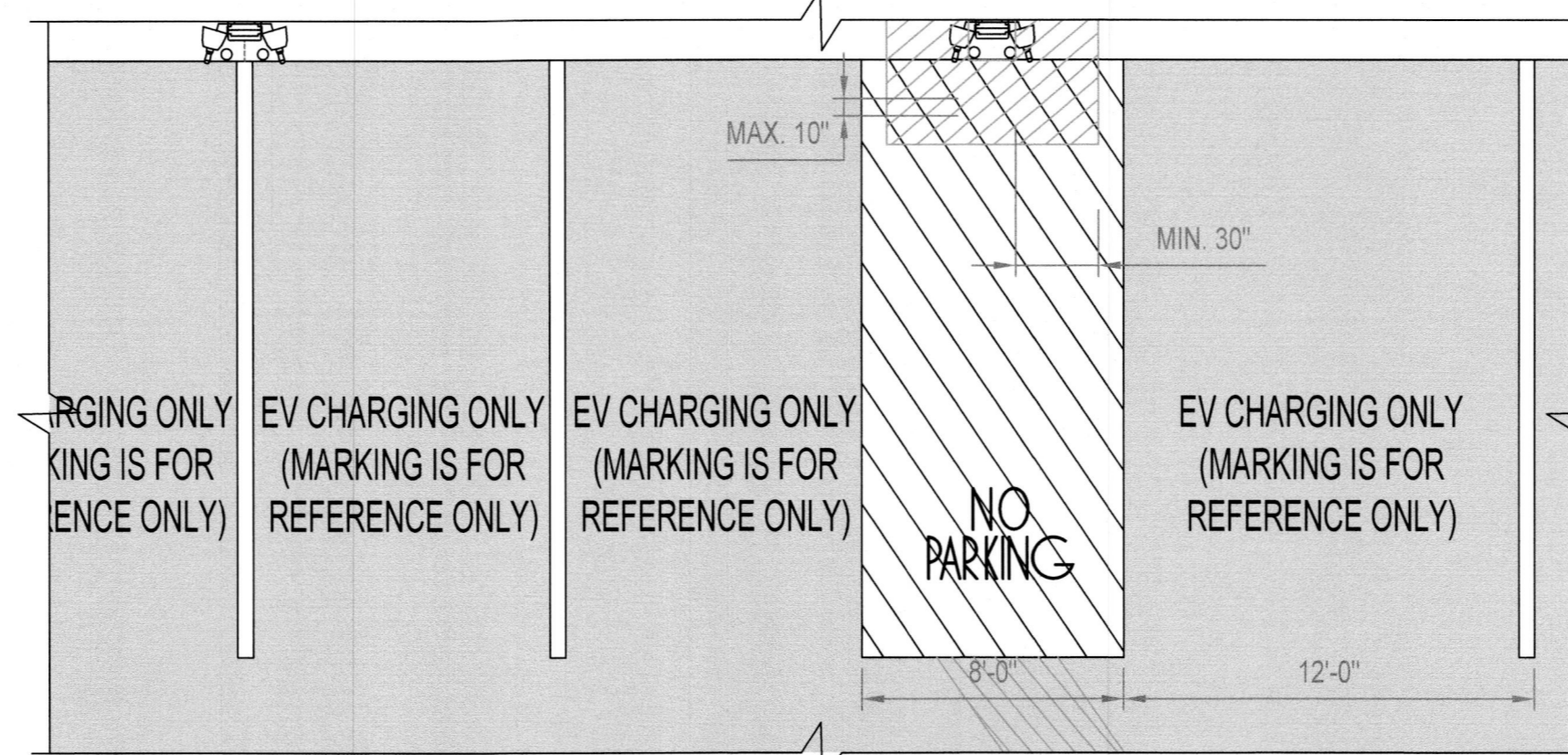


**01 SITE PLAN**  
1/16" = 1'  
0 8 16'  
N  
W E S



**02 VICINITY MAP**  
SCALE: NOT TO SCALE  
N  
W E S

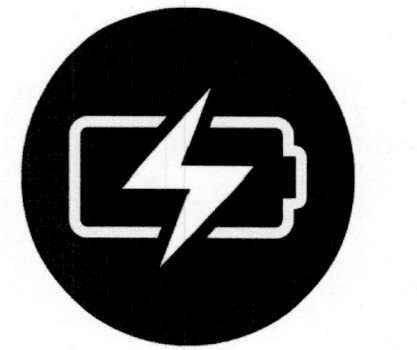
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**02 ELECTRICAL PLAN**  
 3/16" = 1'-0"  
 0 2'-0" 5'-4"  
 N  
 W E S

ADA REQUIREMENTS	
ELEMENT	ADAABA 2004 ANSI A117.1 2003
NUMBER OF SPACES	4% OF PARKING SPACES, OR 1 FOR EVERY 25 SPACES. IN ANY GIVEN LOT, BE DESIGNATED AS ACCESSIBLE. 1 OUT OF EVERY 6 SPACES SHOULD BE VAN ACCESSIBLE.
PARKING STALL	8X18 FEET FOR A CAR AND 11X18 FEET FOR A VAN
ACCESSIBLE ROUTE SLOPE / CROSS SLOPE	MAXIMUM 1:20 (5%) RUNNING SLOPE AND 1:48 (2%) CROSS SLOPE. ACCESSIBLE VEHICLE SPACES 1:48 (2%) IN ALL DIRECTIONS AND 90-INCH CLEARANCE FOR VANS
REACH RANGE	BETWEEN 15 AND 48 INCHES FRONT AND SIDE TO ALLOW REACH TO ALL OPERABLE PARTS FROM A WHEELCHAIR
ACCESSIBLE CONTROLS	OPERABLE WITH ONE HAND AND NOT REQUIRING GRASPING, PINCHING, OR TWISTING OF THE WRIST OR FORCE MORE THAN 5 LBS. EXCEPTION: GAS PUMPS
ACCESSIBLE RAMPS	A RAMP OR CURB-CUT MUST BE ACCESSIBLE TO ALLOW FOR OPERATION OF CHARGING STATION
FACILITY ACCESSIBILITY	MUST BE CONNECTED BY A MINIMUM OF 50-INCH-WIDE ACCESSIBLE ROUTE IN PROXIMITY (NOT NECESSARILY ADJACENT) TO THE ENTRANCE OF THE BUILDING
SIDE ACCESS AISLE	SIDE ACCESS AISLE OF 60 INCHES WIDE TO ALLOW SPACE FOR WHEELCHAIR AND EQUIPMENT IN AND OUT OF SPACE
OTHER CONSIDERATIONS	ENSURE THAT BOLLARDS, WHEEL STOPS, OR CURBS DO NOT OBSTRUCT USE OF CHARGING STATION

- GENERAL NOTES**
- FIELD VERIFY ALL MEASUREMENTS
  - ITEMS BELOW MAY NOT BE ON THIS PAGE
- CONDUIT  
 ----- SETBACK LINE



**CONTRACTOR**

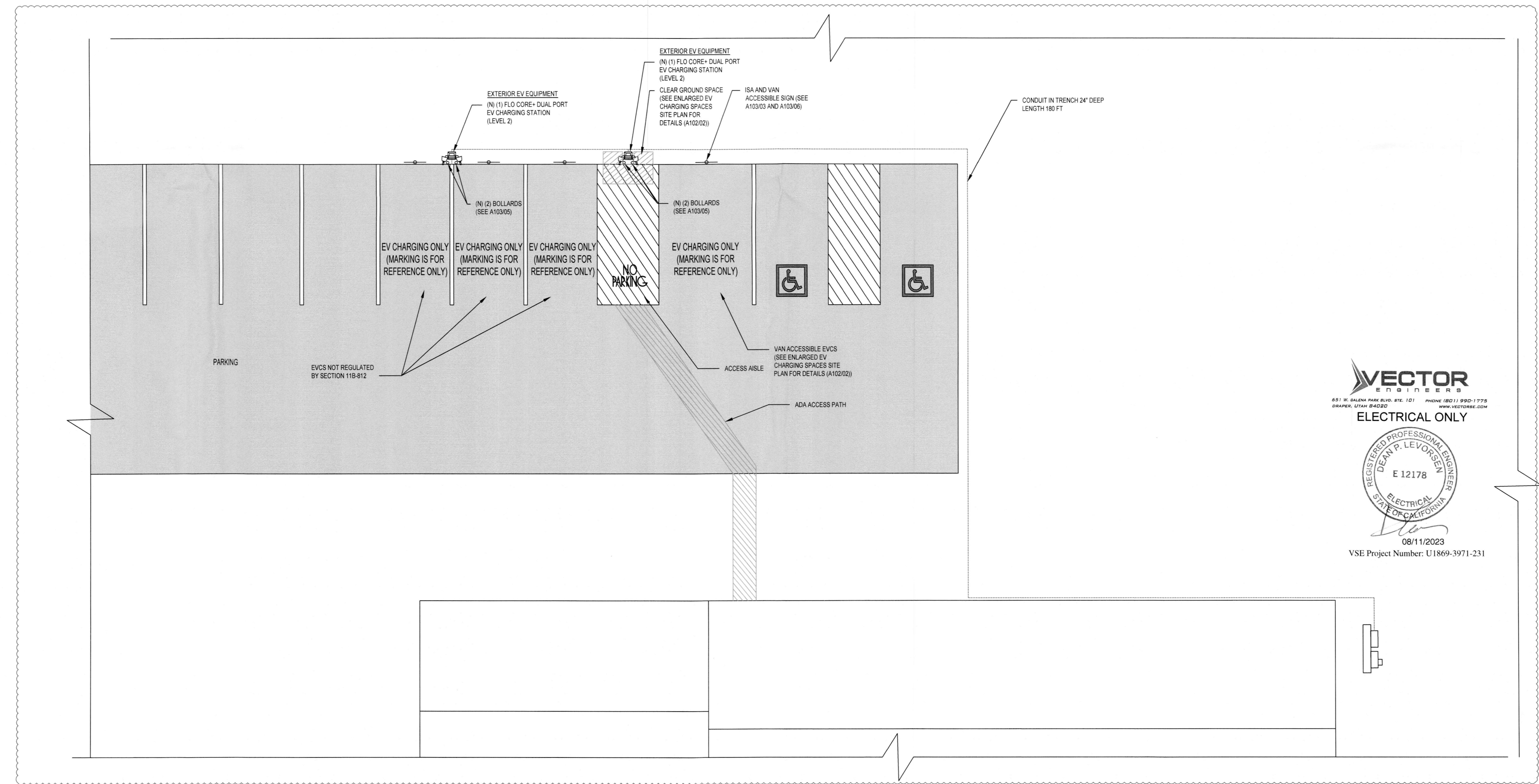
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**01 ELECTRICAL PLAN**  
 1/8" = 1'-0"  
 0 4'-0" 8'-0"  
 N  
 W E S

**VECTOR ENGINEERS**  
 651 W. SALINA PARK BLVD. STE. 101 PHONE (805) 992-1778  
 DRAPER, UTAH 84020 WWW.VECTORENG.COM

**ELECTRICAL ONLY**



VSE Project Number: U1869-3971-231

**REVISION / RELEASE**

NO.	DESCRIPTION	DATE
△	AHJ COMMENTS	07.06.2023
△	AHJ COMMENTS	07.25.2023
△	CONTRACTOR COMMENTS	08.01.2023

**PROJECT**

NEW EV SYSTEM  
**OCSD TRAIN DEPOT**

1650 FRONT STREET  
 OCEANO, CA 93422  
 APN: 062-271-005

**ENGINEER OF RECORD**

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:  
 ELECTRICAL PLAN

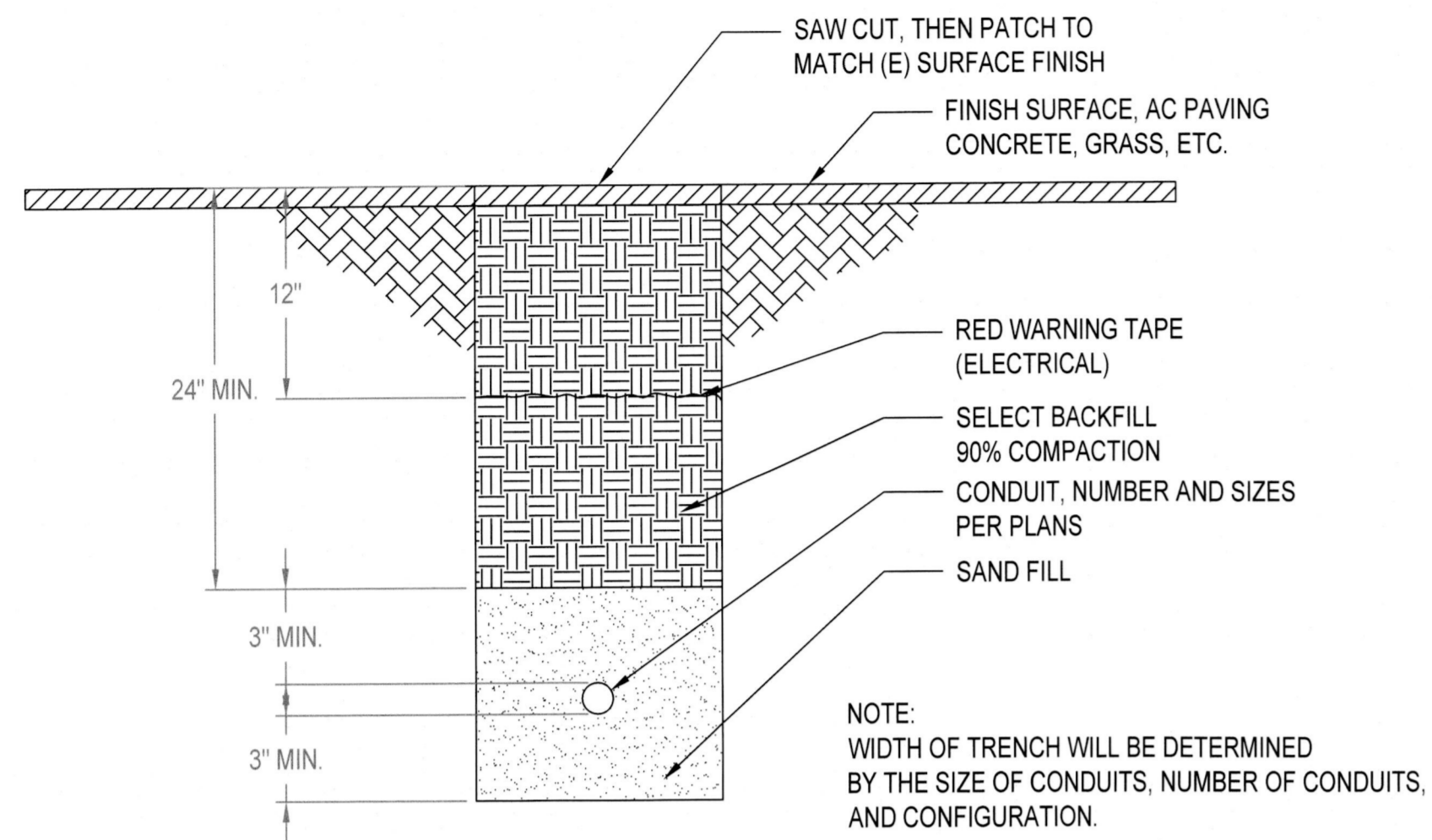
DATE: 04.14.2023

DESIGN BY: V.H.

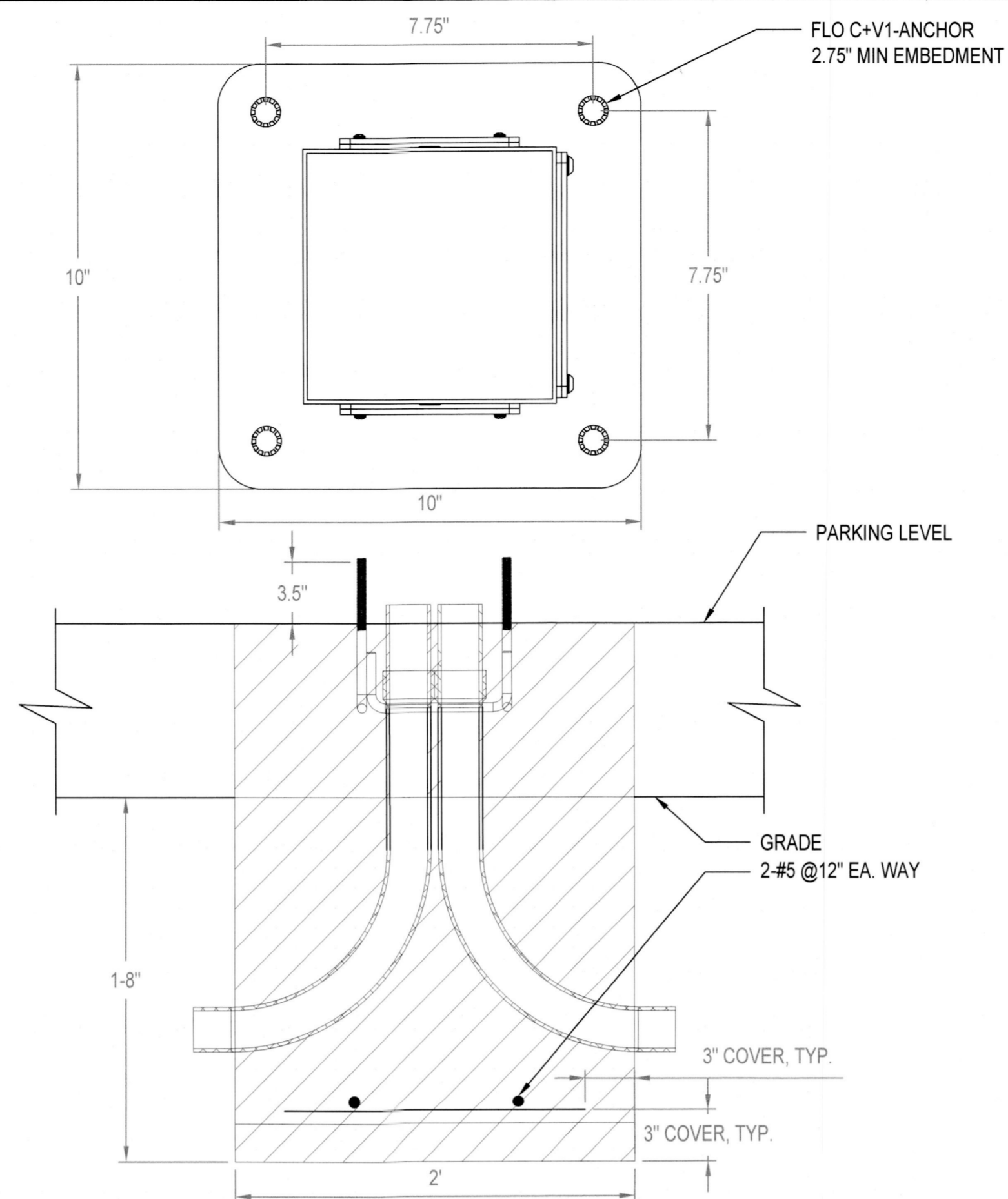
CHECKED BY: L.A.

SHEET NUMBER:

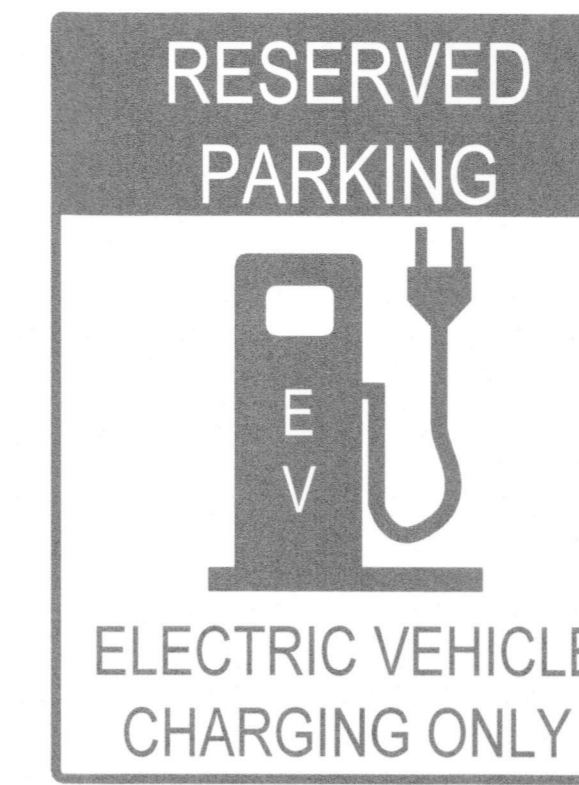
**A-102.00**  
 (SHEET 4)



**01 CONDUIT TRENCH DETAILS**  
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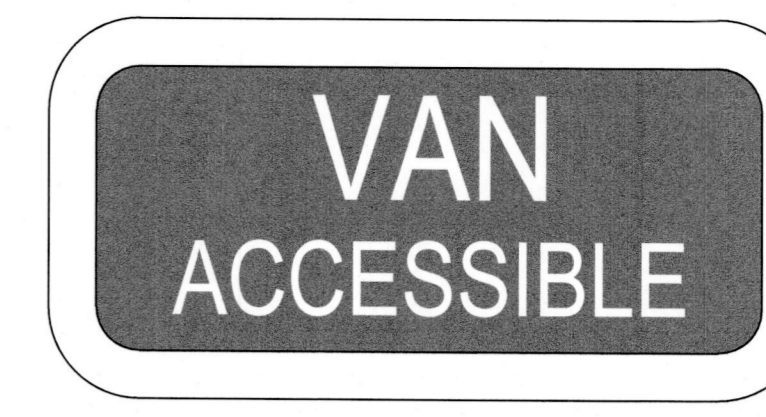


**02 REBAR FOR PEDESTAL DETAILS**  
SCALE: NOT TO SCALE

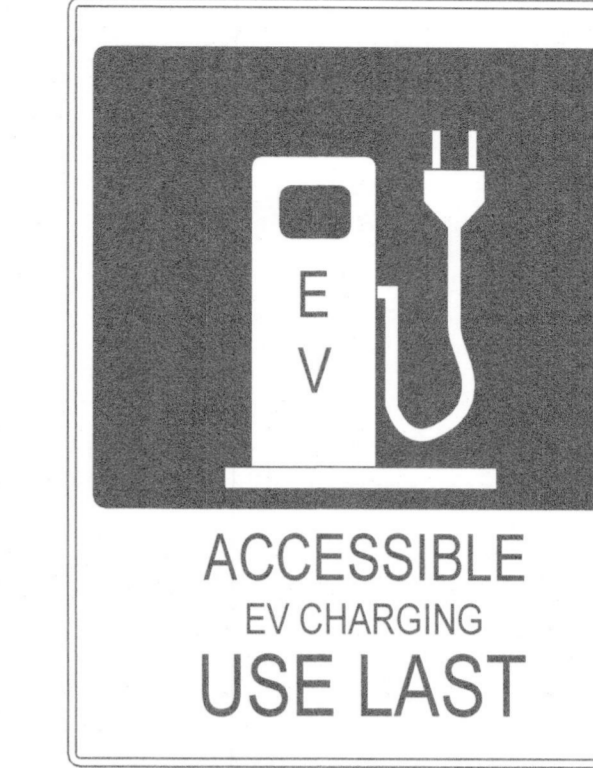


**SIGN 1**  
REGULAR ACCESSIBLE ELECTRIC VEHICLE CHARGING STATION SIGN  
18"x24" or 12"x18"

NOTE:  
REGULAR EVCS SIGN FOR REFERENCE ONLY. IT MAY BE DIFFERENT.

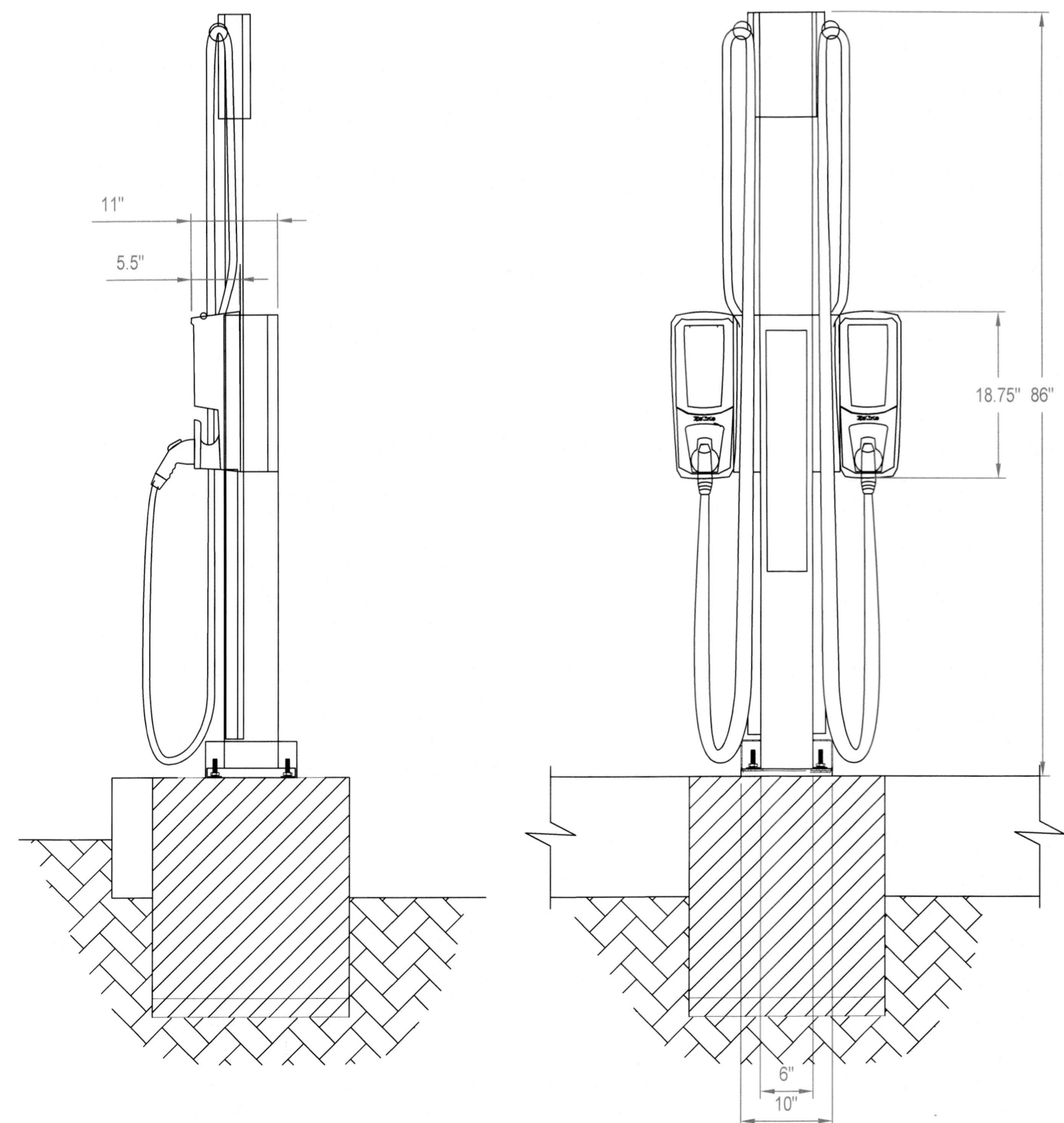


**SIGN 2**  
VAN ACCESSIBLE PARKING SIGN  
MUTCD: R7-8b  
18"x9" or 12"x6"



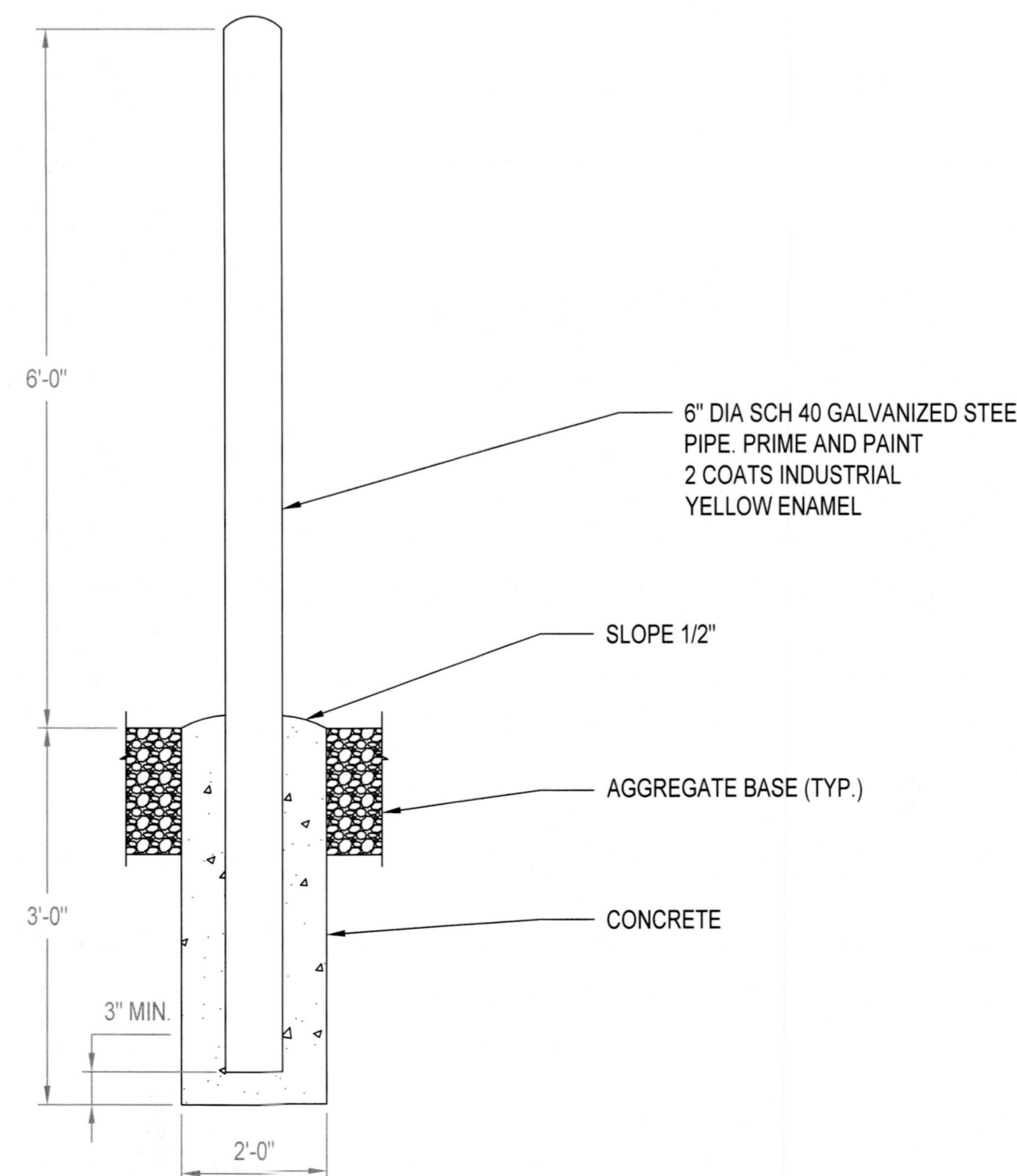
**SIGN 3**  
ADA ACCESSIBLE ELECTRIC VEHICLE CHARGING STATION SIGN  
18"x24" or 12"x18"

**03 ADA AND EVCS REQUIREMENTS SIGNS DETAILS**  
SCALE: NOT TO SCALE



**04 FLO CORE+ DETAILS**  
SCALE: NOT TO SCALE

NOTE: BOLLARD IS INTENDED TO PROVIDE A BARRIER TO EV EQUIPMENT; HOWEVER, IT IS NOT DESIGNED TO WITHSTAND VEHICLE IMPACT LOAD WITHOUT STRUCTURAL/SOIL FAILURE. BOLLARD AND FOUNDATION SHALL BE REPLACED IF VEHICLE IMPACT CAUSES DEFLECTION AT FOUNDATION OR YIELDING OF THE STEEL PIPE. VECTOR ENGINEERING IS NOT RESPONSIBLE FOR ANY DAMAGE RESULTING FROM BOLLARD FAILURE. BOLLARD FOUNDATION SHALL BE POSITIONED AS TO CLEAR PEDESTAL FOUNDATION



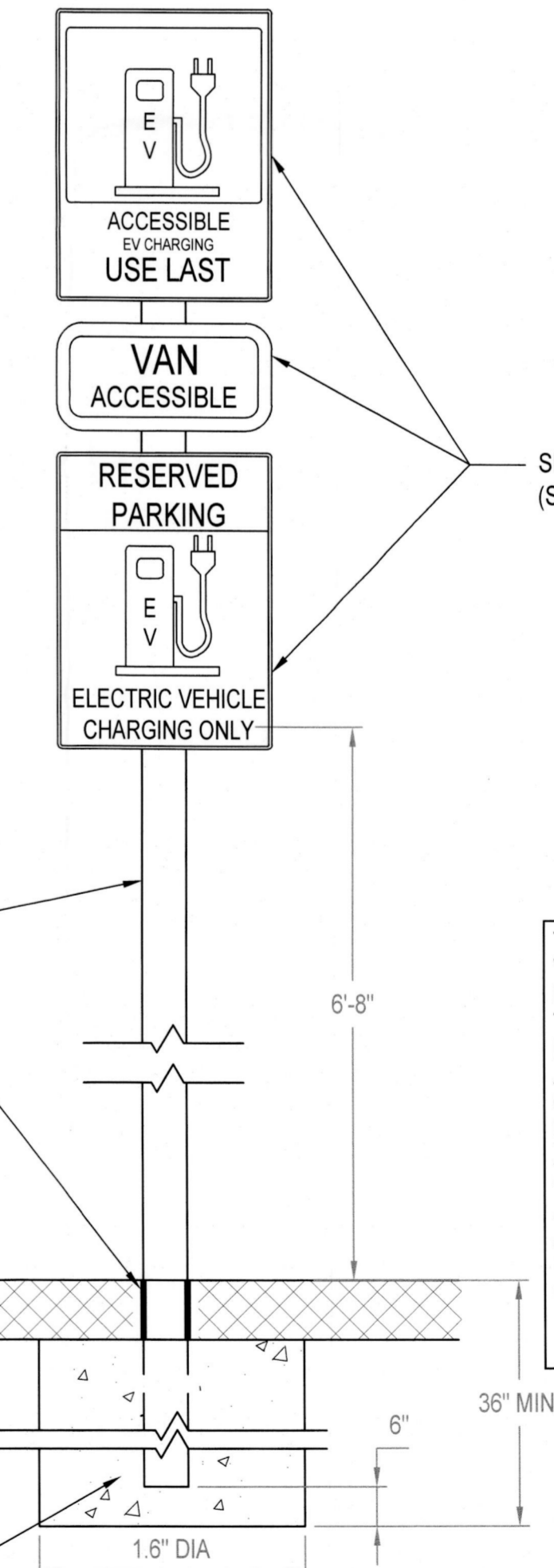
**05 BOLLARDS DETAILS**  
SCALE: NOT TO SCALE

NOTES:

- CONTRACTOR SHALL VERIFY SIGN WITH LOCAL AND ADA REQUIREMENTS AND SPECIFICATIONS BEFORE INSTALLATION. LOCAL JURISDICTION SIGN REQUIREMENTS SHALL TAKE PRECEDENCE OVER THIS DETAIL.
- SIGNS SHALL BE LOCATED SO THAT THEY CANNOT BE OBTSCURED BY A VEHICLE PARKED IN THE SPACE.
- SIGN TO BE PROVIDED AT ALL ACCESSIBLE PARKING SPACES AS PER ADA REGULATIONS.
- STRUCTURAL ANALYSIS OF STEEL TUBE AND FOUNDATION TO BE COMPLETED BY OTHERS

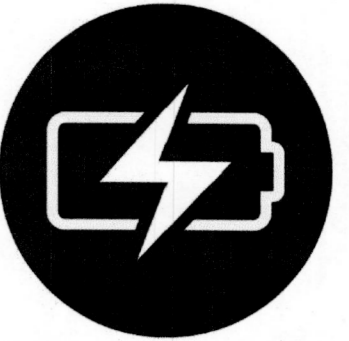
2" X 2" GALVANIZED STEEL TUBE  
SEALED EXPANSION JOINT AROUND PIPE

18" DIA. CONCRETE FOUNDATION AROUND PIPE COLUMN 6" BELOW FROST LINE (3 FT. MIN. BELOW FIN. GRADE).



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**06 SIGNS POLE DETAILS**  
SCALE: NOT TO SCALE



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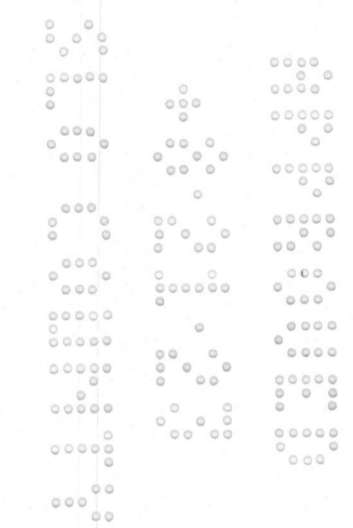
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Δ	AHJ COMMENTS	07.25.2023
Δ	CONTRACTOR COMMENTS	08.01.2023

PROJECT

NEW EV SYSTEM

**OCS D TRAIN DEPOT**

1650 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-005

ENGINEER OF RECORD



08/11/2023

VSE Project Number: U1869.3970.231

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:

ELEVATION PLAN

DATE: 04.14.2023

DESIGN BY: V.H.

CHECKED BY: L.A.

SHEET NUMBER:

**A-103.00**  
(SHEET 8)

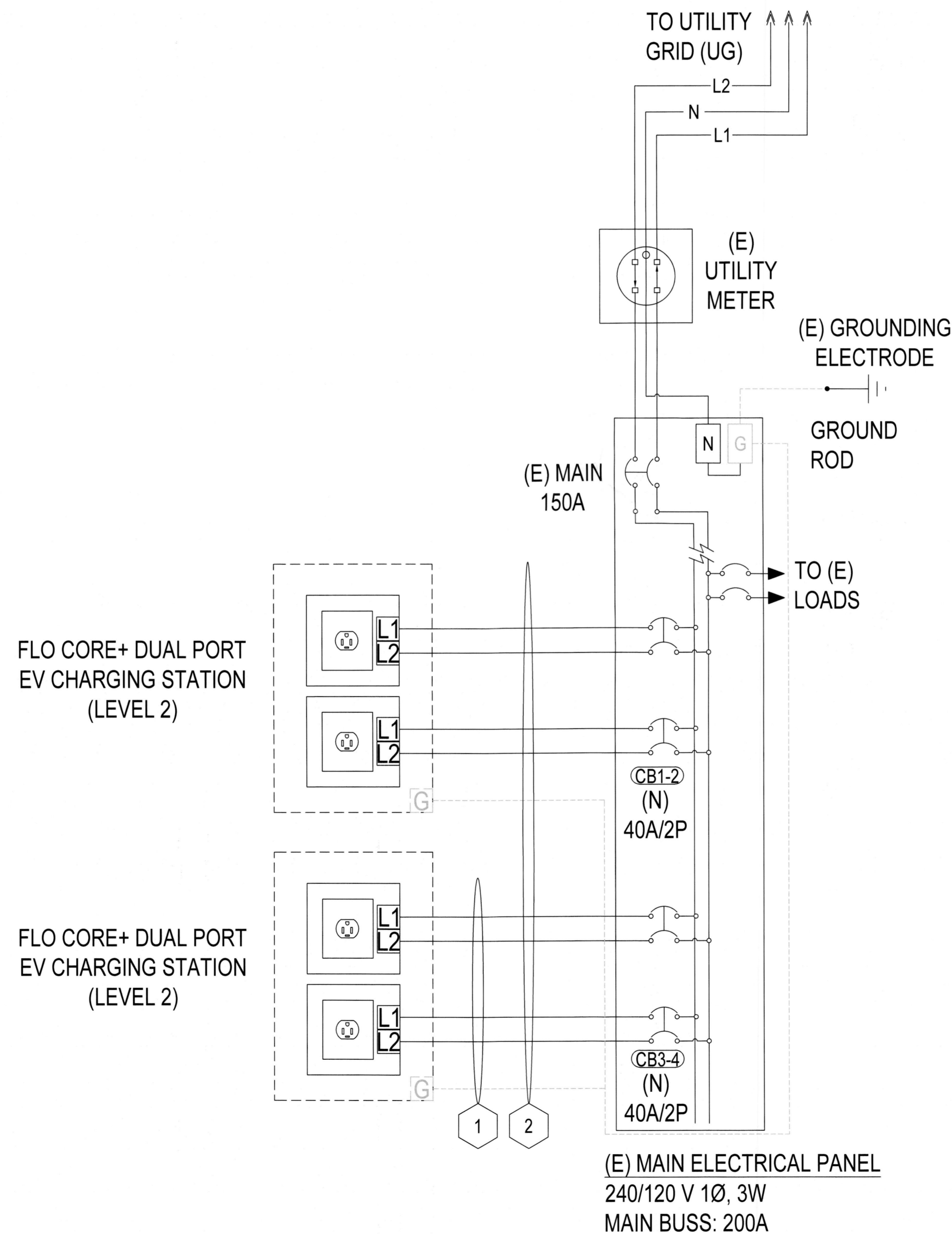
CONDUCTOR AND CONDUIT SCHEDULE W/ELECTRICAL CALCULATIONS

ID	TYPICAL	CONDUCTOR	CONDUIT	CURRENT-CARRYING CONDUCTORS IN CONDUIT	OCPD	EGC	TEMP. CORR. FACTOR	CONDUIT FILL FACTOR	CONT. CURRENT	MAX. CURRENT (125%)	BASE AMP.	DERATED AMP.	TERM. TEMP. RATING	AMP. @ TERMINAL	LENGTH	VOLTAGE DROP
1	1	4 AWG THWN-2, COPPER	1.25" DIA PVC-40	4	100A	10 AWG THWN-2, COPPER	1	0.8	30A	37.5A	95A	76A	75°C	85A	180 FT.	1.40%
2	1	4 AWG THWN-2, COPPER	1.5" DIA PVC-40	8	100A	10 AWG THWN-2, COPPER	1	0.7	30A	37.5A	95A	66.5A	75°C	85A	160 FT.	1.24%

BILL OF MATERIALS

CATEGORY	MAKE	MODEL NUMBER	REF	QTY	UNIT	QTY/UNIT	DESCRIPTION
EV CHARGE	FLO	CORE+	EV1-2	2	PIECE	1	FLO CORE+ DUAL PORT EV CHARGING STATION (LEVEL 2) (INCLUDING 2 CHARGERS AND PEDESTAL MOUNT)
WIRING		GEN-10-AWG-THWN-2-CU-GR	WR1-2	340	FEET	1	10 AWG THWN-2, COPPER, GREEN (GROUND)
WIRING		GEN-4-AWG-THWN-2-CU-RD	WR1-2	680	FEET	1	4 AWG THWN-2, COPPER, RED (LINE 1)
WIRING		GEN-4-AWG-THWN-2-CU-BLK	WR1-2	680	FEET	1	4 AWG THWN-2, COPPER, BLACK (LINE 2)
WIREWAY		GEN-PVC-40-1.25" DIA	WW1	22	FEET	1	PVC-40 CONDUIT, 1.25" DIA
WIREWAY		GEN-PVC-40-1.5" DIA	WW2	340	FEET	1	PVC-40 CONDUIT, 1.5" DIA
OCPD	GENERIC MANUFACTURER	GEN-CB-40A-240VAC	CB1-4	4	PIECE	1	CIRCUIT BREAKER, 40A, 2 POLE, 240VAC

OCPDS			
REF.	QTY.	RATED CURRENT	MAX VOLTAGE
CB1-4	4	40A/2P	240VAC



CONTRACTOR

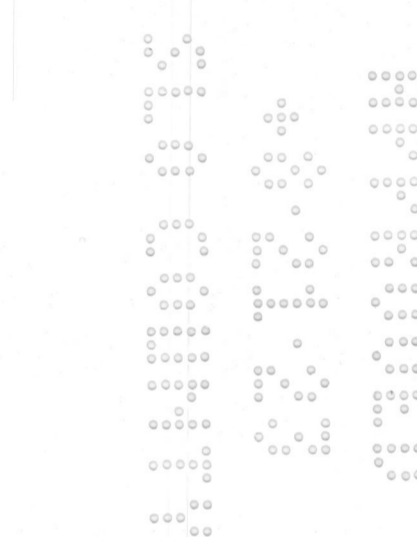
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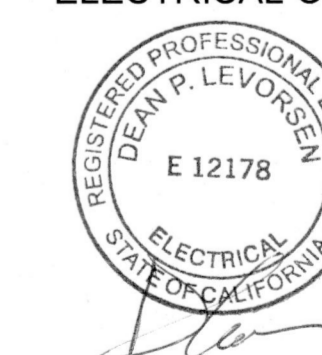
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ENGINEER OF RECORD

**VECTOR ENGINEERS**  
651 W. SULLY PARK BLVD. STE. 101 OCEANO, CA 93422  
PHONE (805) 990-1775  
WWW.VECTORENR.COM



08/11/2023  
VSE Project Number: U1869-3971-231

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:  
LINE DIAGRAM

DATE: 04.14.2023

DESIGN BY: V.H.

CHECKED BY: L.A.

SHEET NUMBER:

**E-601.00**  
(SHEET 7)



CoRe+™



Shown with optional cable management system



### CoRe+ Smart level 2 charging station for private, public and commercial applications

The CoRe+ charging station is specifically designed for private applications such as workplaces, multi-unit residential buildings, fleets, and is also suitable for public spaces

Choose between the Standard and PowerSharing™ versions of the CoRe+ at acquisition time.

#### Benefits

- **PowerSharing technology (optional) (U.S. Pat. No. 9,927,778)**  
Greatly reduce installation cost by sharing the remaining incremental capacity of an existing electrical infrastructure
- **PowerLimiting™ technology (U.S. Pat. No. 10,197,976)**  
Add multiple charging stations to an existing installation while minimizing the building's peak power demand through:
  - Fixed limit
  - Scheduled limitations
- Rugged and reliable design able to withstand harsh weather

#### Smart Charging Solution

- **Enhanced charging station owner experience** - Complete remote management capabilities including software and firmware updates
- **Enhanced user experience** - Deliver real-time updates and notifications to drivers
- **Revenue generation** - Implement payment services to generate revenue
- **Access control** - Configure stations to authorize access using the FLO mobile app or RFID card authentication, or allow unrestricted access to the station

#### Key features

- Type 4X enclosure cast aluminum casing
- Certified to operate in temperatures ranging from -40 °F to 122 °F / -40 °C to +50 °C
- Equipped with a charging cable that remains flexible at low temperature
- Wall-mounted and pedestal configuration options. Pedestal configuration helps meet ADA requirements
- Pedestal configuration that helps meet ADA requirements
- Modular design to facilitate servicing and maintenance
- Access provided free of charge or according to a usage fee
- LED status indicator
- Optional cable management system
- Optional cascading kit enables serial daisy-chain connection of multiple charging stations on pedestals and on the same branch circuit
- Software-based field calibration to Meet California Type Evaluation Program requirements

CoRe+™

## Overview

The CoRe+ charging station is designed for applications where multiple charging stations may be necessary now or in the future, such as public sites, workplaces, multi-unit residential buildings (condos and apartments), or commercial fleets. The CoRe+ can be equipped with a cable management system keeping the cables safe and suspended.

#### Future-proof energy management features

##### PowerSharing

- Allows the addition of charging ports (keeping up with the fast-paced increase demand for EVSE) for limited electrical infrastructure
- Requires minimal modification to an existing electrical installation. Our technology can power up to 4 times more vehicles than standard installations would allow.

##### PowerLimiting

- Minimize the incremental power demand on the building's infrastructure (which can significantly increase with uncontrolled EVSEs).
- Limits the power drawn from the grid for an entire site based on a schedule.

##### Physical features

- Rugged charging station able to withstand extreme weather and corrosion
- Thick and sturdy cast aluminum casing
- Universal SAE J1772 connector
- Flexible 21-foot cable (25-foot optional) that remains malleable even during winter's coldest temperatures
- Mounting pedestal helping to meet ADA requirements

## Applications



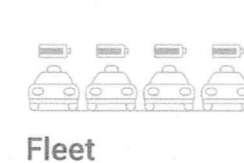
#### Public sites

For business owners and organizations wanting to provide their customers with first-class charging experience and become a destination of choice, while demonstrating their sustainable development leadership.



#### Workplace

For companies looking to offer an EV charging service to their employees, and looking for a solution that can evolve at the same rate as the demand for the service while maintaining reasonable installation and operation costs.

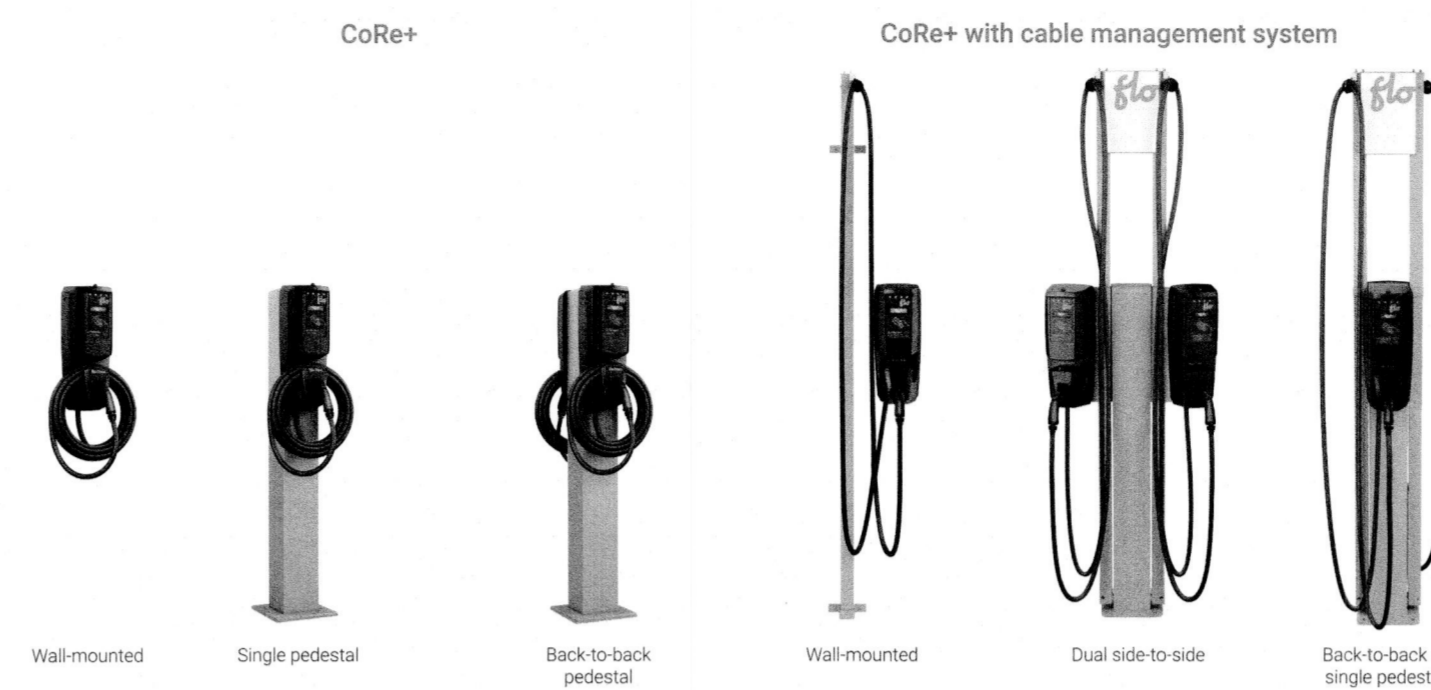


#### Fleet

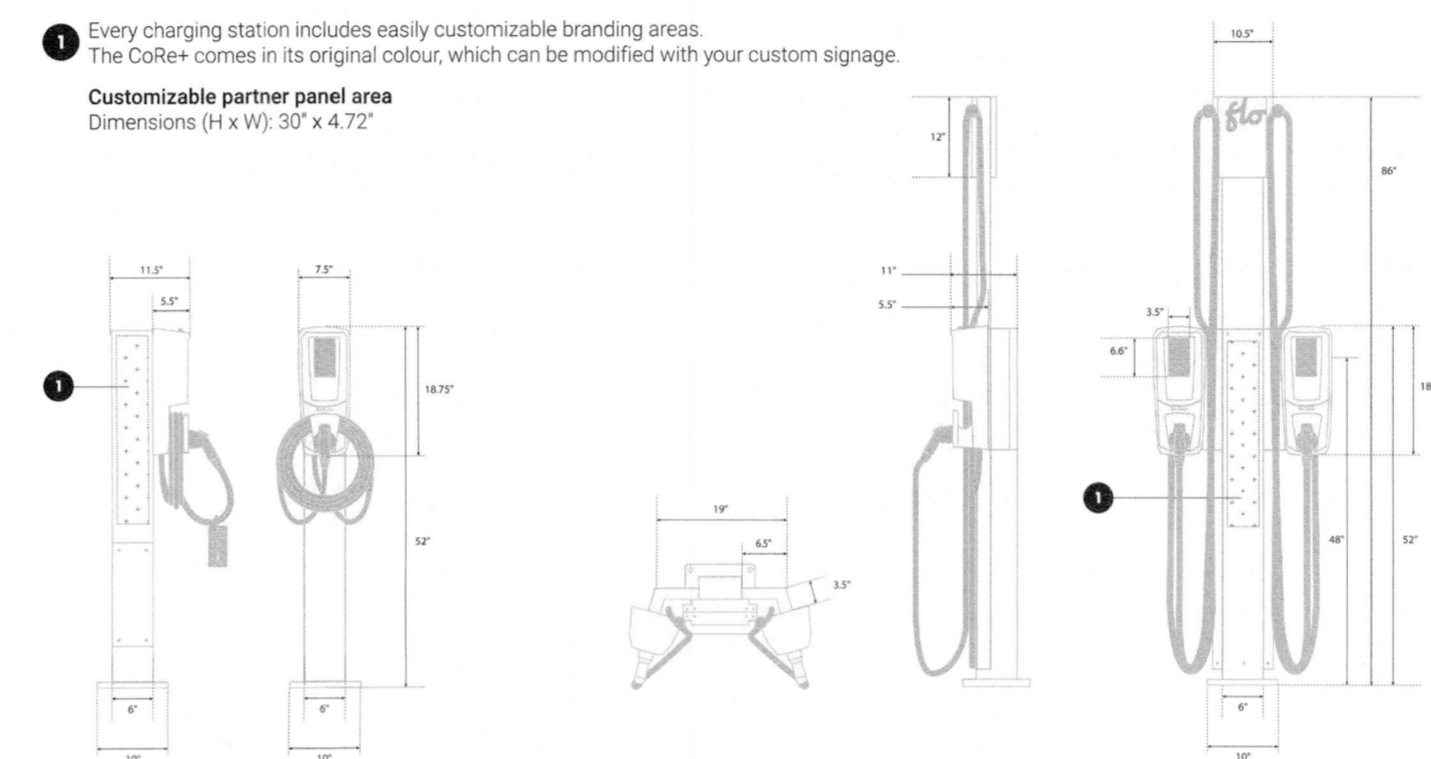
For fleet managers who wish to grow their EV fleets without expanding their electrical infrastructure while maintaining the operational costs at an affordable level.

CoRe+™

## Available configurations



## Dimensions and customization



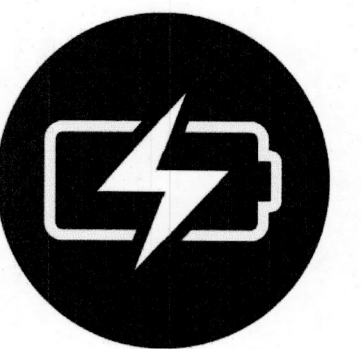
CoRe+™

## Technical specifications

	Standard option	PowerSharing™ option
Aluminum casing		Type 4X enclosure
Charging connector		SAE J1772
Cable		21' (optional 25') / 6.4 m (optional 7.62 m)
Input Power	Standard: 30 A @ 208 VAC or 240 VAC for each charging station	PowerSharing: 32 A @ 208 VAC or 240 VAC per set of 4 charging stations
Charging power		1.2 kW to 7.2 kW (maximum configurable by software)
Output current		6 A to 30 A (maximum configurable by software)
Integrated GFCI		20 mA, auto reset (3 attempts at 15-minute intervals)
Frequency		60 Hz
Operating and storage temperature		-40 °F to 122 °F / -40 °C to +50 °C
Weight		Charging station: 21 lbs / 9.53 kg; Pedestal: 32 lbs / 14.5 kg; Cable management system: 15 lbs / 6.8 kg
Humidity		Up to 95% (non-condensing)
Card reader		ISO 14443 A/B, ISO 15693, NFC
Communication interface		ZigBee - IEEE 802.15.4 meshed network
Networking		Cellular - LTE (gateway is installed separately for optimal performances)
Certifications	CSA-C22.2 No. 280 / UL 2594, CSA C22.2 No 281.1 and 281.2 / UL 2231-1 and 2231-2	
EMC compliance	USA - FCC 47 CFR 15 class A; CAN - ICES-3 (A)	
Metering Accuracy	Certified according to California Type Evaluation Program (CTEP)	
Model Number (21' Cable)	COCH602EA1-FL-P07	COPS602EA1-FL-P07
Model Number (25' Cable)	COCH102AA1-FL-P07	COPS102AA1-FL-P07

Learn more  
info@flo.com  
1 855 543 8356 flo.com

Designed and manufactured by AddEnergy



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#### PROJECT

NEW EV SYSTEM  
**OCS D TRAIN DEPOT**

1650 FRONT STREET  
OCEANO, CA 93422  
APN: 062-271-005

#### ENGINEER OF RECORD

PAPER SIZE: 36" x 24" (ARCH D)

SHEET TITLE:  
RESOURCE DOCUMENT

DATE: 04.14.2023

DESIGN BY: V.H.

CHECKED BY: L.A.

SHEET NUMBER:

**R-001.00**  
(SHEET 7)



# Oceano Community Services District

1655 Front Street, P.O. Box 599, Oceano, CA 93475

(805) 481-6730 FAX (805) 481-6836

---

**Date:** September 27, 2023

**To:** Board of Directors

**From:** Will Clemens, General Manager

**Subject:** **Agenda Item #8(A)– Discussion and consideration of revisions to the bylaws regarding the Oceano Community Services District Board of Director’s decision making processes**

## **Recommendation**

It is recommended that your Board discuss and consider revisions to the bylaws regarding the Oceano Community Services District Board of Director’s decision making processes and any necessary revisions thereto.

## **Discussion**

At the Regular Board meeting on September 13, 2023, your Board requested a discussion of the decision making processes of the Board of Directors. Attached are the bylaws adopted on September 21, 2023.

## **Other Agency Involvement**

n/a

## **Other Financial Considerations**

n/a

## **Results**

Reviewing the Board Bylaws helps to promote a well governed community.

**Attachment:** Oceano Community Services District Board of Director Bylaws

**OCEANO COMMUNITY SERVICES DISTRICT  
BOARD OF DIRECTORS — BYLAWS**

**1. OFFICERS OF THE BOARD OF DIRECTORS.**

1.1. The officers of the Board are the President and Vice President.

1.2. The President and Vice President shall be elected annually during a meeting in December, after any newly elected Board members are seated in conformance with Government Code Section 61043. The term of office for the President and Vice-President of the Board shall commence immediately after the election.

1.3. The President of the Board shall serve as presiding officer at all Board meetings. The President shall have the same rights as the other members of the Board in voting, introducing motions, resolutions and ordinances, and any discussion of questions that follow said actions.

1.4. In the absence of the President, the Vice-President of the Board shall serve as presiding officer over all meetings of the Board. If the President and Vice-President of the Board are both absent, the remaining members present shall select one of themselves to act as presiding officer of the meeting.

1.5. The Board may at any time determine, by majority vote of all members, that the President has demonstrated an inability to serve. Upon such determination, the Vice President shall preside instead of the President.

1.6. The Board may at any time determine, by majority vote of all members, that the Vice President, when acting as the presiding officer pursuant to Section 1.5 above, has demonstrated an inability to serve. Upon such determination, the Board shall, by majority vote, elect another member to be the presiding officer.

**2. MEETINGS.**

2.1. Regular meetings of the Board of Directors (the Board) shall commence on the second and fourth Wednesday of each calendar month in the Board room at the District Office currently located at 1655 Front Street, Oceano, CA, 93475. Regular meeting times shall be set annually pursuant to the current Director's schedules and/or preference with the consideration to the public's right to participate.

2.2. Members of the Board shall attend all regular and special meetings of the Board unless there is good cause for absence.

2.3. The General Manager, in cooperation with the Board at the prior meeting shall prepare an agenda for each regular and special meeting of the Board. Any Director, before or during a regular meeting, may request that the General Manager place an item on the agenda. The General Manager may also put emergent District business on the agenda. Items being placed on any agenda are subject to Brown Act regulations.

2.4. No action or discussion may be taken on an item not on the posted agenda. However, matters deemed to be emergencies or of an urgent nature may be added to the agenda of a

regular meeting under the procedures of the Brown Act. Pursuant to the Brown Act and at regular meetings:

- a) Board Members may briefly respond to statements or questions from the public; and
- b) Board Members may, on their own initiative or in response to public questions, ask questions for clarification, provide references to staff or other resources for factual information, or request staff to report back at a subsequent meeting; and
- c) The President or no fewer than two members of the Board of Directors may direct the staff to place a matter on a future agenda. The President shall have unilateral authority to place items on the agenda at any time in conformance with the Brown Act.

**2.5.** The presiding officer shall conduct all meetings in a manner consistent with the policies of the District and the Brown Act. He/she shall determine the order in which agenda items shall be considered for discussion and/or actions taken by the Board. He/she shall announce the Board's final decision on all subjects. He/she shall vote on all questions; and on roll call his/her name shall be called last.

**2.6.** A majority of the Board shall constitute a quorum for the transaction of business. While a majority of the Board is sufficient to do business, motions must be passed unanimously if only three Board members are present. Only those Board members present at a meeting may vote on business conducted at that meeting.

**2.7.** If a quorum does not arrive within fifteen (15) minutes of the time the meeting has been scheduled, it shall be determined that a quorum is not present. When there is no quorum for a regular meeting, the President, Vice President, or any Board member shall adjourn such meeting or, if no Board member is present, the District secretary shall adjourn the meeting.

**2.8.** Roll call shall be taken on the passage of all business items before the Board. The roll call vote shall be entered in the minutes of the Board meeting showing those Board members voting aye, those voting no, and those not voting or absent. Unless a Board member states that he or she is not voting on an item because of a conflict of interest, his or her silence or abstention shall be deemed and recorded as an affirmative vote.

**2.9.** Any person attending a meeting of the Board may record the proceedings with an audio or video tape recorder or a still or motion picture camera unless the recording causes unreasonable noise, illumination, or obstruction of view that constitutes or would constitute a disruption of the proceedings or would impair the ability of the public to observe the proceedings. All video tape recorders, still, and/or motion picture cameras shall remain stationary and shall be located and operated from behind the public speakers' podium once the meeting begins.

**2.10.** During each meeting, time shall be set aside to receive public comment in accordance with the Brown Act and District policy. Public comment shall be directed to the Board as a whole and not to any member individually or to the public.

**2.11.** If an individual or group willfully interrupts a meeting, fails to adhere to the District's policies pertaining to public comment, or otherwise creates an unreasonable disruption to the proceedings, the meeting may be stopped and the room may be cleared. In such circumstances, members of the media must be allowed to remain and only matters on the agenda can be discussed.

**2.12.** No regular meeting will be conducted past 9:30p.m. At that time the meeting will be continued, to a time and place acceptable to a majority of the Board Members present, to consider any items where action is necessary prior to the next regular Board meeting. If a second meeting is held and continues until 9:30p.m., then the meeting will be adjourned and remaining agenda items continued to the next regular Board meeting. Adjournment at 9:30p.m. may be disregarded by means of a motion to suspend the rules, if seconded and approved by a vote of a majority of the Board Members present.

### **3. COMMITTEES.**

**3.1.** The Board may create Committees that are reflective of the District's business and its enumerated powers at its discretion. Committees shall be advisory committees to the Board and shall not commit the District to any policy, act or expenditure. The duties of the committees shall be outlined at the time of creation.

**3.2.** All committee meetings shall be conducted as public meetings in accordance with the Brown Act.

**3.3.** No committee shall include in its membership more than two (2) Board members.

**3.4.** An alternate member may be assigned by the Board in advance for those meetings where a regular member is unable to attend.

**3.5.** Committee assignments and District appointments will be coordinated with the election of the District officers annually. Upon a motion and a majority vote, committee assignments and appointments may be reconsidered at any time during the calendar year.

### **4. PREPARATION OF MINUTES AND MAINTENANCE OF TAPES.**

**4.1.** The minutes of the Board shall be kept by the District Secretary and shall be neatly produced and kept in a file created for that purpose, with a record of each particular type of business transacted set off in paragraphs with proper subheadings. However, the District Secretary shall be required to make a record only of such business as was actually passed upon by a vote of the Board and, except as provided in Section 4.2 below, shall not be required to record any remarks of Board Members or any other person. The Minutes shall record all of the votes taken for the passage of all ordinances, resolutions or motions.

**4.2.** Any Director may request that brief comments pertinent to an agenda item be included in the minutes, but only at the meeting in which the item is discussed.

**4.3.** The District Secretary shall attempt to record the names and place of residence of persons addressing the Board, the title of the subject matter to which their remarks related, and whether they spoke in support or opposition to such matter.

**4.4.** Whenever the Board acts in a quasi-judicial proceeding, such as in assessment matters, the District Secretary shall compile a summary of the testimony of the witnesses.

**4.5.** Any audio or visual recording of a District meeting made for whatever purpose at the direction of the District shall be subject to inspection pursuant to the California Public Records Act. Audio and/or visual recordings will be posted on the District's website for 30 days before being taken down. Physical copies of the audio/visual recordings will be retained in the District archive for five (5) years and may be destroyed thereafter.

**4.6.** Nothing herein shall be deemed to create a requirement that minutes from the meeting be taken, or tape or film recordings be made, of any closed sessions of the Board.

**4.7.** All correspondence should have Name and Address of record to be entered in the minutes.

## **5. MEMBERS OF THE BOARD OF DIRECTORS.**

**5.1.** Directors shall at all times conduct themselves with courtesy to each other, to staff and to members of the audience present at Board meetings.

**5.2.** Differing viewpoints are healthy in the decision-making process. Individuals have the right to disagree with ideas and options, but in a respectful manner.

**5.3.** Once the Board takes action, Directors should commit to supporting the action and should not obstruct implementation of the action.

**5.4.** Any vacancy in the office of a member elected to the Board shall be filled pursuant to Government Code Section 1780.

## **6. AUTHORITY OF DIRECTORS.**

**6.1.** The full Board of Directors, in actions taken pursuant to The Brown Act, retain absolute power to set policy, direct staff, and conduct the business of the District.

**6.2.** The Board is the unit of authority within the District. Apart from their normal functions as a part of the Board, Directors have no individual authority. As individuals, Directors may not commit the District to any policy, act or expenditure.

**6.3.** Directors represent and act for the community as a whole.

**6.4.** The primary responsibility of the Board is the formulation and evaluation of policy. Routine matters concerning the operational aspects of the District are the responsibility of the professional staff members of the District. Directors should not obstruct the professional staff in the performance of their duties.

**6.5.** The Board at a regular or special meeting may authorize a Director or staff to speak or communicate on behalf of the District or represent the District at a meeting or related function.

Otherwise, Board members attending such events as described above shall make it clear that they are speaking on their own behalf and not representing the District or its Board of Directors.

## **7. DIRECTOR GUIDELINES.**

**7.1.** It is the intent of the Board of Directors to:

- a)** Maintain control and direction of the District by action of the Board of Directors taken pursuant to the Brown Act;
- b)** Allow Board Members access to information relative to the running of the District;
- c)** Protect staff from undue influence, threats, harassment, and/or pressure from individual Board Members or members of the public; and
- d)** Allow staff to execute priorities given by the Board of Directors and management without fear of reprisal.

**7.2.** Individual Board members, by making a request to the General Manager shall have access to information relative to the operation of the District, including but not limited to statistical information, information serving as a basis for certain actions of staff or as justification for staff recommendations. Board Members shall receive the cooperation and candor of the General Manager in being provided with the requested information. If the General Manager cannot timely provide the requested information because it is not presently available or its production would cause an interruption in work schedules or workloads, then the General Manager shall inform the Board member why the information is not available or cannot be made available in a timely manner, and when it may be made available.

**7.3.** If the information still cannot be provided the General Manager shall, or the Board Members shall direct the General Manager to, place an item on the Board agenda for direction as to the Board's desire and method of providing the information.

**7.4.** In handling complaints from residents, property owners within the District or other constituents, Directors are encouraged to listen carefully to the concerns, but the complaint should be referred to the General Manager for processing and appropriate response.

**7.5.** Directors, when seeking clarification of policy-related concerns, especially those involving personnel, legal action, land acquisition and development, finances, and programs, should refer said concerns directly to the General Manager.

**7.6.** When approached by District personnel concerning specific District policy, Directors should direct inquiries to the General Manager.

**7.7.** Directors and the General Manager should develop a working relationship so that current issues, concerns and District projects can be discussed comfortably and openly.

**7.8.** When responding to constituent requests and concerns, Directors should respond to individuals in a positive manner and route their questions to the General Manager.

**7.9.** Sitting Directors should not enter into Litigation against the District. Should a Director enter into litigation against the District, it will be presumed that said Director has a conflict of interest on all matters presented to the Board for discussion and action.

## **8. DIRECTOR COMPENSATION.**

**8.1.** Each Director is authorized to receive one hundred dollars (\$100.00) as compensation for each regular or special meeting of the Board and fifty dollars (\$50.00) for each committee meeting attended by him or her as the appointed Board representative or as the alternate. An alternate will be compensated only if attendance of the alternate at a committee is required because

- 1) the appointed representative is unable to attend or
- 2) the Board has directed the alternate to attend

**8.2.** In no event shall Director compensation exceed one hundred dollars (\$100.00) per day.

**8.3.** Director compensation shall not exceed six hundred (\$600.00) in any one (1) calendar month.

## **9. EXPENSE REIMBURSEMENT.**

**9.1.** Each Board Member is entitled to reimbursement for their actual and necessary traveling and incidental expenses incurred in the performance of the duties required and authorized by the Board. Personal phone calls are not reimbursed.

**a)** It is the policy of the District to exercise prudence with respect to hotel or motel accommodations. It is also the policy of the District for Board members and staff to stay at the hotel or motel location of a conference, seminar, or class to gain maximum participation and advantage of interaction with others whenever possible.

**b)** Any Director traveling on District business shall receive transportation and lodging expenses, and ordinary expenses such as meals and tips. If a Director is called upon to personally pay District business expenses during travel, the Director shall maintain all receipts from any such District business trips. Such receipts will be used to calculate the amount of reimbursement.

**c)** Mileage reimbursement for use of privately-owned vehicles used for District business shall be as established by the Internal Revenue Service.

## **10. CORRESPONDENCE DISTRIBUTION POLICY.**

**10.1.** The following letters and other documents shall be accumulated and delivered to the Board on Friday of each week.

**a)** All letters approved by the Board and/or signed by the President on behalf of the District.



- b) All correspondence received by the District that are of District-wide concern as reasonably determined by the General Manager.

## **11. CONFLICTS OF INTEREST AND RELATED POLICY.**

**11.1.** State laws exist which attempt to eliminate any action by a Board Member or the District which may reflect a conflict of interest. The purpose of such laws and regulations is to ensure that all actions are taken in the public interest. The following provides a brief policy summary of various conflict related laws. Directors are encouraged to consult with the Fair Political Practices Commission (the "FPPC") at (916) 322-5660, prior to the day of the meeting if they have a question about a particular agenda item.

**11.2.** Each Director is encouraged to review the District's Conflicts of Interest Code on a regular basis. The general rule is that an official may not participate in making a governmental decision if it is reasonably foreseeable that the decision will have a material financial effect on the official or a member of his or her immediate family or on an economic interest of the official, and the effect is distinguishable from the effect on the public generally. If real property in which the Director has an interest is located within 500 feet of the boundaries of the property affected by decision, that interest is deemed to be directly involved in the decision. Additionally, FPPC rules generally require a disqualified Board member to leave the room during the discussion of the matter.

**11.3.** The prohibitions of Government Code Section 1090 provide that the District may not contract with any business in which a Board member has a financial interest.

**11.4.** The basic rule is that public policy requires that when the duties of two offices are repugnant or overlap so that their exercise may require contradictory or inconsistent action, to the detriment of either public office, the discharge of the duties of the two offices by one person is incompatible with the affected office and the official must step down from one of the offices.

## **12. EVALUATION OF CONSULTANTS.**

The District Consultants, including the District's Legal Counsel and Consulting Engineer, shall be evaluated as needed.

## **13. CONTINUING EDUCATION.**

**13.1.** Board Members are required to attend training on ethics and sexual harassment every other year on an alternating schedule. Board members are also required to attend training on the National Incident Management System (NIMS).

**13.2.** Members of the Board and the General Manager are encouraged to attend educational conferences and professional meetings to improve District operation, such as Special District Administration, Finance and Governance, and other programs that emphasize employee relationships.

**13.3.** Subject to budgetary constraints, there is no limit on the number of Directors attending a particular conference or seminar when their attendance is beneficial to the District and in compliance with the Brown Act.

#### **14. RELATIONSHIP AND CONDUCT BETWEEN BOARD MEMBERS AND STAFF.**

**14.1.** The Board of Directors recognizes that the primary function of staff is to execute Board policy and to keep the Board of Directors informed.

**14.2.** Members of the Board of Directors shall not attempt to pressure and/or influence staff decisions, recommendations, workloads, schedules, and priorities.

**14.3.** Staff shall take guidance and direction only from action taken by the Board of Directors or from appropriate management supervisors as may be the case. Staff shall reject any attempts by an individual Board Member to influence or otherwise pressure them into making, changing or otherwise affecting staff decisions or recommendations, or changing work schedules and priorities. Staff shall report such attempts, without fear of reprisal, to the General Manager, or to the President or the Vice President of the Board of Directors, who shall take appropriate action.

**14.4.** In the event that an employee has been the subject of any unlawful conduct from a Board Member, the employee shall report such conduct in writing and without fear of reprisal to the President or the Vice President of the Board of Directors, or to the Grand Jury directly, who shall investigate the complaint and take further necessary action.

#### **15. FIDUCIARY RESPONSIBILITY.**

**15.1.** No member of the Board of Directors shall serve as the District treasurer.

**15.2.** The General Manager shall be responsible for supervision of the District's finances.

**15.3.** The Board of Directors shall adopt by resolution a system of accounting and auditing that shall completely and at all times show the District's financial condition. The system of accounting shall adhere to generally accepted accounting principles (Government Code Section 61053).

**15.4.** The District's money shall be deposited in conformance with the District Investment Policy.

**15.5.** The General Manager shall make quarterly or more frequent written reports to the Board of Directors, as the Board shall determine, regarding the receipts and disbursements and balances in the accounts of the District.

**15.6.** The Board will review and approve the District Investment Policy on an annual basis.

**15.7.** The budget shall be prepared annually for Board approval by the following procedures:

**a)** On or before June 1st of each year, the Board of Directors should adopt a preliminary budget that conforms to generally accepted accounting procedures applicable to special districts. The preliminary budget shall be prepared by the General Manager.

**b)** On or before July 1st of each year, the Board of Directors shall publish a notice in a newspaper of general circulation stating the date, time, and place when the Board

will meet to adopt the final budget, and that the preliminary budget is available for inspection at the District office.

c) On or before September 1st of each year, the Board of Directors shall adopt a final budget that conforms to generally accepted accounting procedures applicable to special districts.

d) The procedures for adopting a budget shall comply with Government Code Section 61110.

15.8. Audits shall be conducted as soon after the end of the Fiscal Year as possible, preferably within 120 days.

## **16. PUBLICATION OF POLICY.**

16.1. Copies of this Policy shall be distributed to:

a) All current District employees and new employees at the time of hire.

b) All current Directors of the District and new Directors at the time they take office.

c) Staff will provide orientation for new Directors.

16.2. The General Manager shall be available to answer questions of District employees regarding the District Policy on relationship and conduct between Board Members and staff.

## **17. RESTRICTIONS ON BYLAWS.**

These Bylaws shall govern the Board in all cases to which they are applicable and not otherwise inconsistent with State and Federal laws.



# Oceano Community Services District

1655 Front Street, P.O. Box 599, Oceano, CA 93475

(805) 481-6730 FAX (805) 481-6836

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**Date:** September 27, 2023

**To:** Board of Directors

**From:** Will Clemens, General Manager

**Subject:** **Agenda Item #8B:** Continuation of Item 8A from the Regular Meeting of September 13, 2023 - Discussion and consideration of OPARC duties, governing policies and procedures, and committee membership, and proposed resolution and bylaws concerning the same

## Recommendation

It is recommended that your Board review Item 8A from the Regular Meeting of September 13, 2023 and either adopt the proposed resolution and bylaws formalizing the operating procedures of the OPARC or, if proposed changes are required to those documents, direct staff to make changes approved by the Board and to return the documents for the Board's consideration at a future meeting.

## Discussion

At the Regular meeting of September 13, 2023 the Board continued item 8A and requested that the item be brought back to the Board for consideration after the Oceano Parks and Recreation Committee reviewed the proposed resolution and bylaws.

With the activation of the parks and recreation power and allocation of funds to that power in the 2023-2024 Budget for the current fiscal year, the Board should consider formalizing the OCSD Parks and Recreation Committee's policies and procedures. Doing so will increase Board involvement with, and oversight of, the OPARC and allow staff to assist OPARC with standardizing the committee agendas and recommendations to the Board.

Presented to the Board for its consideration this evening are two documents. The first is a resolution recognizing the Board's activation of the parks and recreation power and adopting a proposed set of bylaws pertaining to the OPARC. The resolution also directs the General Manager or their designee to work with the OPARC on preparing and posting that committee's agendas.

The second document is the proposed bylaws applicable to the OPARC describing the proposed duties, procedures, and membership of the committee. These proposed bylaws were largely taken from suggestions made by Director Varni and Director Joyce-Suneson with some changes for clarification and formatting made by District Legal Counsel.



# Oceano Community Services District

Board of Directors Meeting

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The Board is encouraged to review both documents and direct questions pertaining to them. Staff is also prepared to revise both documents at the Board's direction.

## **Other Agency Involvement**

Lucia Mar Unified School District, Oceano Elementary School Parent Teachers Association, and a Regional Advisory Committee representing the community of Oceano.

## **Financial Considerations**

N/A

## **Results**

Establishing OPARC duties, governing policies and procedures, and cooperation with other local agencies promotes a livable and well governed community.

Attachment: Resolution

**OCEANO COMMUNITY SERVICES DISTRICT**

**RESOLUTION NO. 2023 - \_\_\_\_**

**A RESOLUTION OF THE BOARD OF DIRECTORS OF THE OCEANO COMMUNITY  
ADOPTING THE BYLAWS OF THE OCEANO PARKS AND RECREATION COMMITTEE**

**WHEREAS**, the California Community Services District Law, Cal. Gov. Code § 61000 *et seq.*, which enumerates the types of services and facilities that may be provided by a community services district, specifically authorizes a district’s exercise of a Parks and Recreation power to:

- (1) “Acquire, construct, improve, maintain, and operate recreation facilities, including, but not limited to, parks and open space, in the same manner as a recreation and park district... [and]
- (2) Organize, promote, conduct, and advertise programs of community recreation, in the same manner as a recreation and park district...”;

**WHEREAS**, the Board of Directors (“Board”) of the Oceano Community Services District (the “District”) desires to exercise these powers in a manner that is transparent, collaborative, and accountable to the residents of Oceano;

**WHEREAS**, the District’s Bylaws allow the Board to, “...create Committees that are reflective of the District's business and its enumerated powers at its discretion [which] shall be advisory committees to the Board and shall not commit the District to any policy, act or expenditure”;

**WHEREAS**, the Board, in its regular meeting on February 22, 2023, authorized the creation of “a parks and recreation advisory committee to advise the Board of Directors on projects and programs relevant to recreation and parks in Oceano”;

**WHEREAS**, the Ralph M. Brown Act, Gov. Code § 54950 *et seq.*, requires “[a] commission, committee, board, or other body of a local agency, whether permanent or temporary, decision-making or advisory, created by charter, ordinance, resolution, or formal action of a legislative body...” to comply with certain requirements regarding open and public meetings;

**WHEREAS**, the District’s Bylaws specify that, the full Board of Directors, in actions taken pursuant to The Brown Act, retain the sole discretion and authority “to set policy, direct staff, and conduct the business of the District”; and

**WHEREAS**, the Board desires to clarify the duties and policies of the Oceano Parks and Recreation Committee.

**NOW, THEREFORE, BE IT RESOLVED** that the Board of Directors of the Oceano Community Services District adopts Bylaws for the Oceano Parks and Recreation Committee, which are attached as Exhibit A to this resolution.

**BE IT FURTHER RESOLVED** that the District General Manager or their designee is directed to assist the chair and members of OPARC to allow the committee to conduct its work as described in this resolution and to ensure compliance with all applicable requirements under the committee bylaws adopted by this resolution.

**PASSED AND ADOPTED** by the Board of Directors of the Oceano Community Services District on September 27, 2023, by the following vote:

**AYES:**

**NAYES:**

**ABSENT:**

**ABSTAIN:**

\_\_\_\_\_  
President, Board of Directors of the  
Oceano Community Services District

**ATTEST:**

\_\_\_\_\_  
Board Secretary of the  
Oceano Community Services District

**APPROVED AS TO FORM:**

\_\_\_\_\_  
Daniel Cheung, District Counsel

**EXHIBIT A-**  
**BYLAWS FOR THE PARKS AND RECREATION ADVISORY COMMITTEE**  
**OF THE OCEANO COMMUNITY SERVICES DISTRICT (“OPARC”)**

**SECTION I. DUTIES OF THE COMMITTEE**

1. The purpose of the Oceano Parks and Recreation Committee (“OPARC” or “Committee”) is to advise the Board of Directors of the Oceano Community Services District (“District”) regarding the exercise of the District’s Parks and Recreation powers as those powers are enumerated in state law.
2. Pursuant to state law and the District’s Bylaws, OPARC is an advisory committee to the District’s Board of Directors (“Board”), and therefore has no independent decision-making authority.
3. Within 30 days after the appointment of Directors from the Board to serve on the OPARC, or no less than annually, OPARC shall submit a brief description of its proposed activities for the year to the Board for its approval. These activities may include:
  - a. Making suggestions regarding the planning and design process for proposed programs for parks and recreation within Oceano and presenting related recommendations to the Board;
  - b. Researching grants related to the District’s parks and recreation power and, at the direction of the Board, preparing applications for grants and other funding sources;
  - c. Meeting with other public and private not-for-profit organizations to explore offering events or activities for Oceano, or to apply for grant funding, at the direction of the Board;
  - d. Advising the Board on proposed policies and guidelines for use of District resources, including property owned by the District, for parks and recreation; and
  - e. Proposing programs that provide physical, cultural, and educational opportunities for residents of Oceano to the Board.



## **SECTION II. POLICIES & PROCEDURES**

1. In accordance with state law and the District's Bylaws, OPARC shall, at all times, operate as a standing committee for purposes of the Brown Act and shall conduct all meetings of the committee as public meetings in accordance with all applicable requirements of the Brown Act.
2. OPARC shall coordinate with the District's General Manager, or the General Manager's designee, to prepare agendas and related materials for all committee meetings, which shall be posted on the District's website and physically posted at the District office.
3. OPARC shall maintain minutes for each of the committee's meetings, which shall be taken by a member of the committee and included with the meeting materials for the next regular meeting of the Board of Directors for its review; this shall be in addition to the verbal report which will be made by a Director-committee member at that meeting.
4. OPARC may not commit the District to any policy, act, or expenditure; this includes, but is not limited to, any of the following actions before obtaining approval from the Board: taking a publicized position on behalf of the District, submitting applications for a program or grant, directing action by District employees (except as provided in this Section), or taking steps to arrange an event or activity.

## **SECTION III. COMMITTEE MEMBERSHIP**

1. Membership of the Committee shall consist of the following:
  - a. Two (2) members of the Board, one of whom shall be designated by the Board of to serve as chair of the Committee;
  - b. One (1) individual representing the Lucia Mar Unified School District;
  - c. One (1) individual representing the Oceano Elementary School Parent Teacher Association;
  - d. One (1) representative from a regional advisory council for the residents of Oceano;  
and
  - e. Four (4) residents of the District.
2. The Board shall accept applications for membership on the committee in January of each year and shall approve the appointment of any Committee members no later than March of each year.

3. The Board may remove a member of the Committee at any time, with or without cause, by a majority vote of the Board.
4. Members of the Committee may not receive compensation from the District for their service on the Committee, except that members of the Board may receive compensation for their service in accordance with applicable state law and District policy.