

The Civil Site Plan Map illustrates the proposed layout for the MRI building and its surrounding areas. Key features include:

- MRI Building:** A large rectangular structure with a central "MRI CONCRETE PAD 17.50' X 57.00' FS = 109.20". The building footprint is labeled "MRI TRAILER OUTLINE".
- Parking Areas:** "PATIENT PARKING" is located to the right of the building. A "PROPOSED BOLLARD, TYP" is indicated near the building entrance.
- Site Improvements:** A box labeled "PREVIOUSLY APPROVED PRIVATE IMPROVEMENTS" is shown. Various site improvements are marked with callouts, including "SITE TELECOM CONDUIT, BY OTHERS" and "SITE POWER CONDUIT OPTION A, BY OTHERS".
- Access and Circulation:** A "PEDESTRIAN STAIR AND DOOR ACCESS" is located near the building entrance. A "MRI TRAILER PAD PERIMETER" is also indicated.
- Topography and Elevation:** The map shows existing ground elevations (e.g., 108.51, 109.02, 109.20) and proposed grades (e.g., 5.0%, 1.5%, 2.0%).
- Orientation and Scale:** A north arrow and a graphic scale (1 inch = 20 feet) are provided for reference.

|           |                          |
|-----------|--------------------------|
| AD        | AREA DRAIN               |
| APN       | ASSESSOR'S PARCEL NUMBER |
| CATCH     | CATCH BASIN              |
| CL        | CENTERLINE / CLASS       |
| CY        | CUBIC YARD               |
| DI        | DROP INLET               |
| EX        | EXISTING GRASS GROUND    |
| EX OR (E) | EXISTING                 |
| FD        | FLOOR DRAIN              |
| FG        | FINISH GRADE             |
| FL        | FLOWLINE                 |
| FT        | FINISHED SURFACE         |
| FO        | FOOT / FEET              |
| GB        | GRADE BREAK              |
| GR        | GRATE                    |
| HP        | HIGH POINT               |
| IG        | INLET GRADE              |
| IN        | INCH                     |
| INV       | INVERT                   |
| L         | LENGTH                   |
| LINEAL    | LINEAL FOOT/FEET         |
| MAX       | MAXIMUM                  |
| ME        | MATCH EXISTING           |
| MIN       | MINIMUM                  |
| (N)       | NEW                      |
| NTS       | NOT TO SCALE             |
| PL        | PROPERTY LINE            |
| SF        | SLOPE                    |
| SB        | SQUARE FEET              |
| TF        | TOP OF BANK              |
| TYP       | TYPICAL                  |
| USP       | UNDER SEPARATE PERMIT    |
| YD, YDS   | YARD, YARDS              |

- ① MRI CONCRETE PAD, REFER TO STRUCTURAL FOR SPECIFICATIONS
- ② CONCRETE PAD MUST NOT EXCEED 0.125" DEVIATION IN 10.00'
- ③ ADA PATH OF TRAVEL TO ADA LIFT. ADA TRUNCATED DOMES AND TURNING LANDING TO BE PROVIDED FOR ACCESS FROM SOUTHERLY DIRECTION
- ④ REMOVE EXISTING WHITE PARKING STRIPE PAINT AND REPLACE WITH NEW 4-INCH WHITE STRIPES AS INDICATED ON PLAN

|                 |
|-----------------|
| Project Number  |
| 1143-18         |
| Building Number |
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| Drawing Number  |
| C1.0            |



A

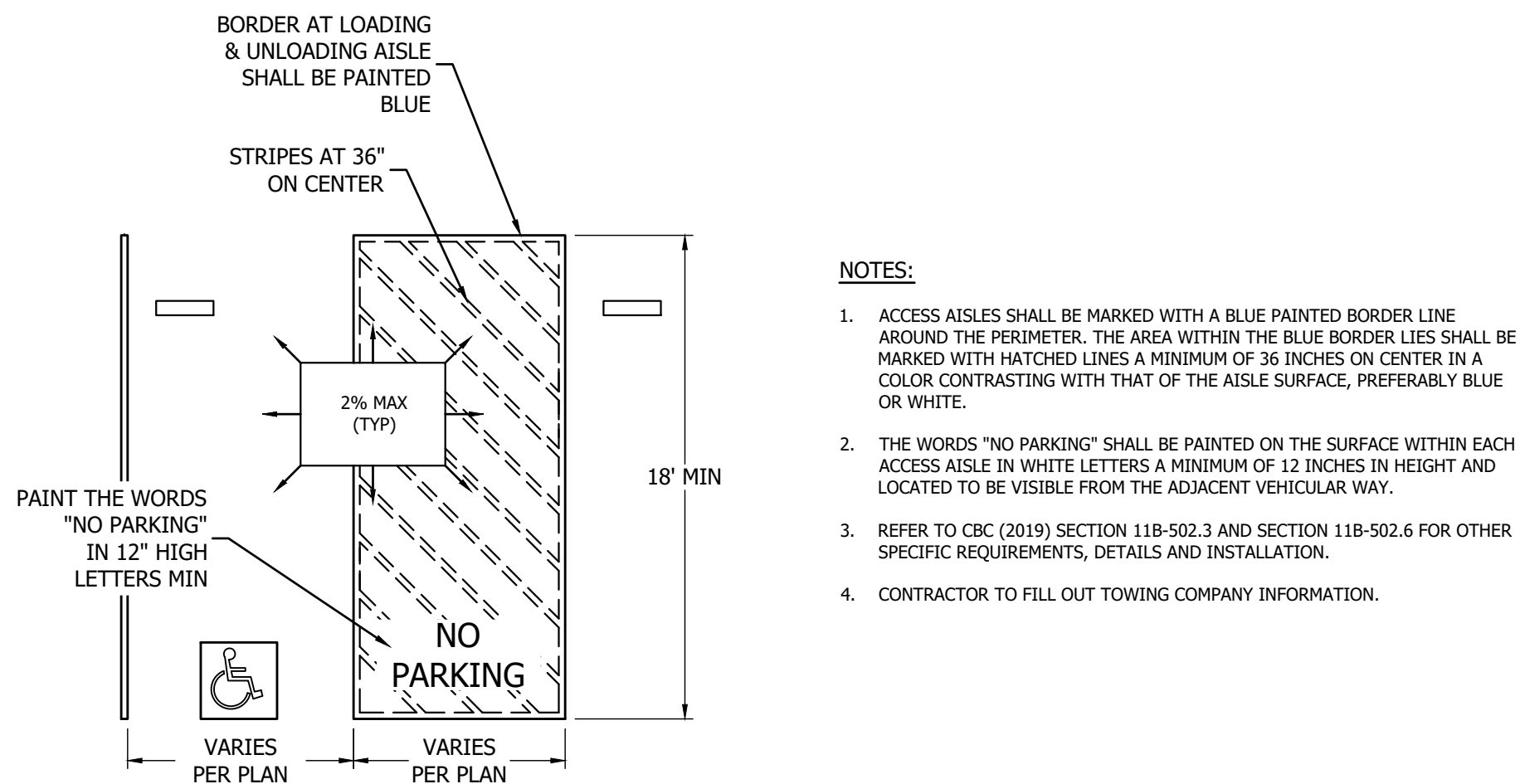
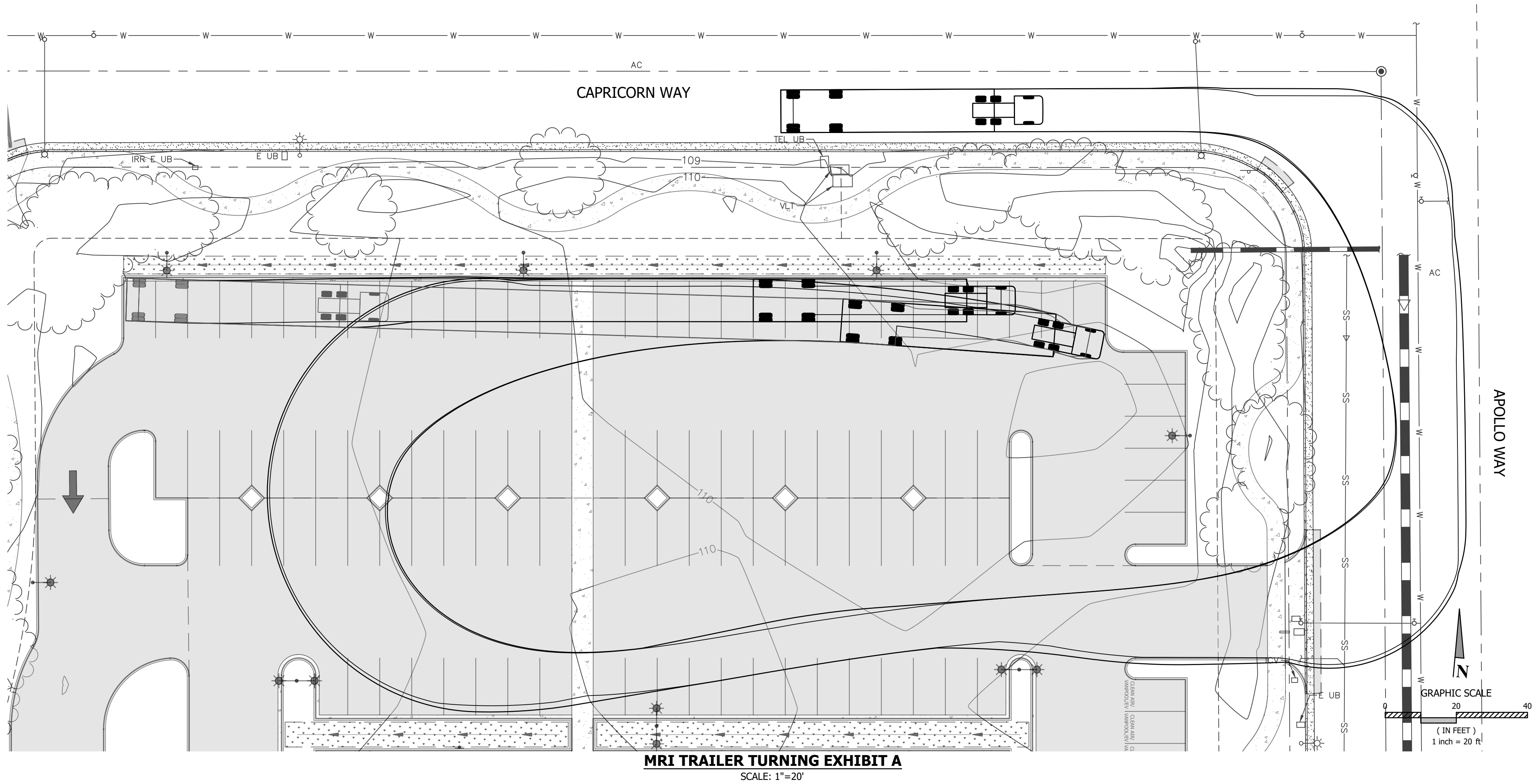
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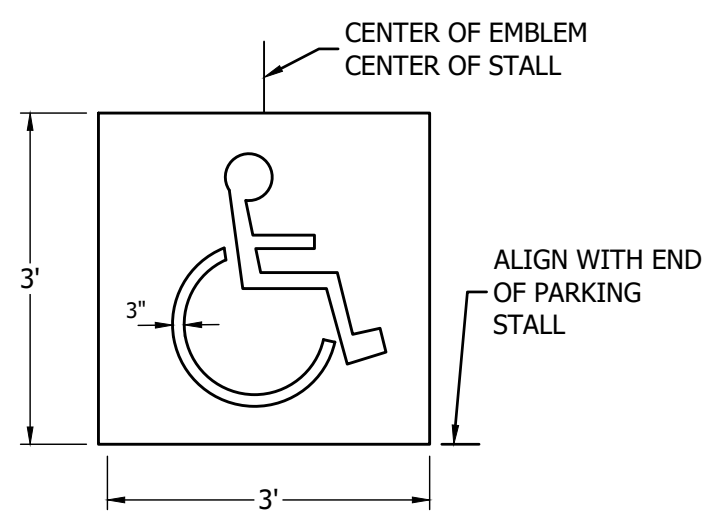
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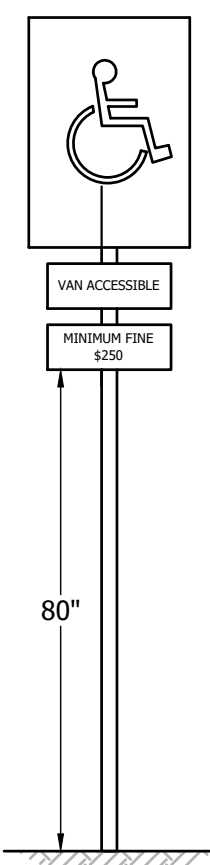
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AP ACCESSIBLE VAN PARKING DETAIL NO SCALE



PS ACCESSIBLE PARKING SYMBOL NO SCALE



- NOTES:**
- EACH PARKING SPACE RESERVED FOR PERSONS WITH DISABILITIES SHALL BE IDENTIFIED BY A REFLECTORIZED SIGN PERMANENTLY POSTED IMMEDIATELY ADJACENT TO AND VISIBLE FROM EACH STALL OR SPACE, CONSISTING OF A PROFILE VIEW OF A WHEELCHAIR WITH OCCUPANT PAINTED IN WHITE ON A DARK BLUE BACKGROUND.
  - THE SIGN SHALL NOT BE SMALLER THAN 70 SQUARE INCHES IN AREA AND WHEN IN THE PATH OF TRAVEL SHALL BE POSTED AT A MINIMUM HEIGHT OF 80 INCHES FROM THE BOTTOM OF THE SIGN TO THE FINISH GRADE OF THE PARKING SPACE.
  - ADD THE WORDS STATING "VAN ACCESSIBLE" OR SIGN AS SHOWN AT STALLS DESIGNATED FOR VAN ACCESSIBLE PARKING.
  - REFER TO CBC (2019) FOR OTHER SPECIFIC REQUIREMENTS, DETAILS AND INSTALLATION.

SA SIGNAGE AT ACCESSIBLE PARKING STALLS NO SCALE

S:\Clients\1143-18 Santa Rosa CDOC\1143-18 CDOC\Civil Site Plan (RND) Turnp\1143-18 Detail (RND).dwg  
4/12/2023 9:29 AM Plotted by Andrew

| ITEM | NO. | DATE | DESCRIPTION |
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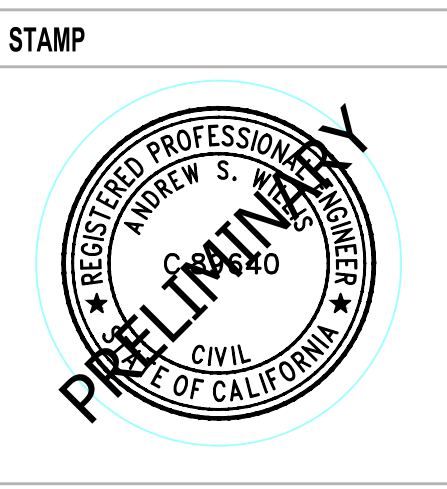
**CONSULTANT**

BC ENGINEERING GROUP, INC.  
**CIVIL ENGINEERING & LAND PLANNING**  
www.bcengineeringgroup.com  
Phone: 707.542.4321  
SANTA ROSA OFFICE:  
418 B Street, Third Floor, Santa Rosa CA 95401  
UKIAH OFFICE:  
603 S. State Street, Ukiah CA 95482

**ARCHITECT/ENGINEER OF RECORD**

A/E:

**LANTZ-BOGGIO**  
Architects & Interior Designers  
5650 DTC Pkwy. | Suite 200 | Englewood | CO 80111 | Ph: 303.773.0436



Office of  
Construction and  
Facilities  
Management

**VA** U.S. Department  
of Veterans Affairs

Drawing Title

**TURNING EXHIBITS & DETAILS -  
MOBILE MRI TRAILER**

Approved:

Phase

**ISSUED FOR 100% VA REVIEW**

Project Title

**SANTA ROSA COMMUNITY BASED  
OUTPATIENT CLINIC**

Location

**SANTA ROSA CALIFORNIA**

Issue Date

**19 APRIL 2023**

Checked

**AVillars**

Drawn

**TLarsen**

Project Number

1143-18

Building Number



Drawing Number

**C2.0**

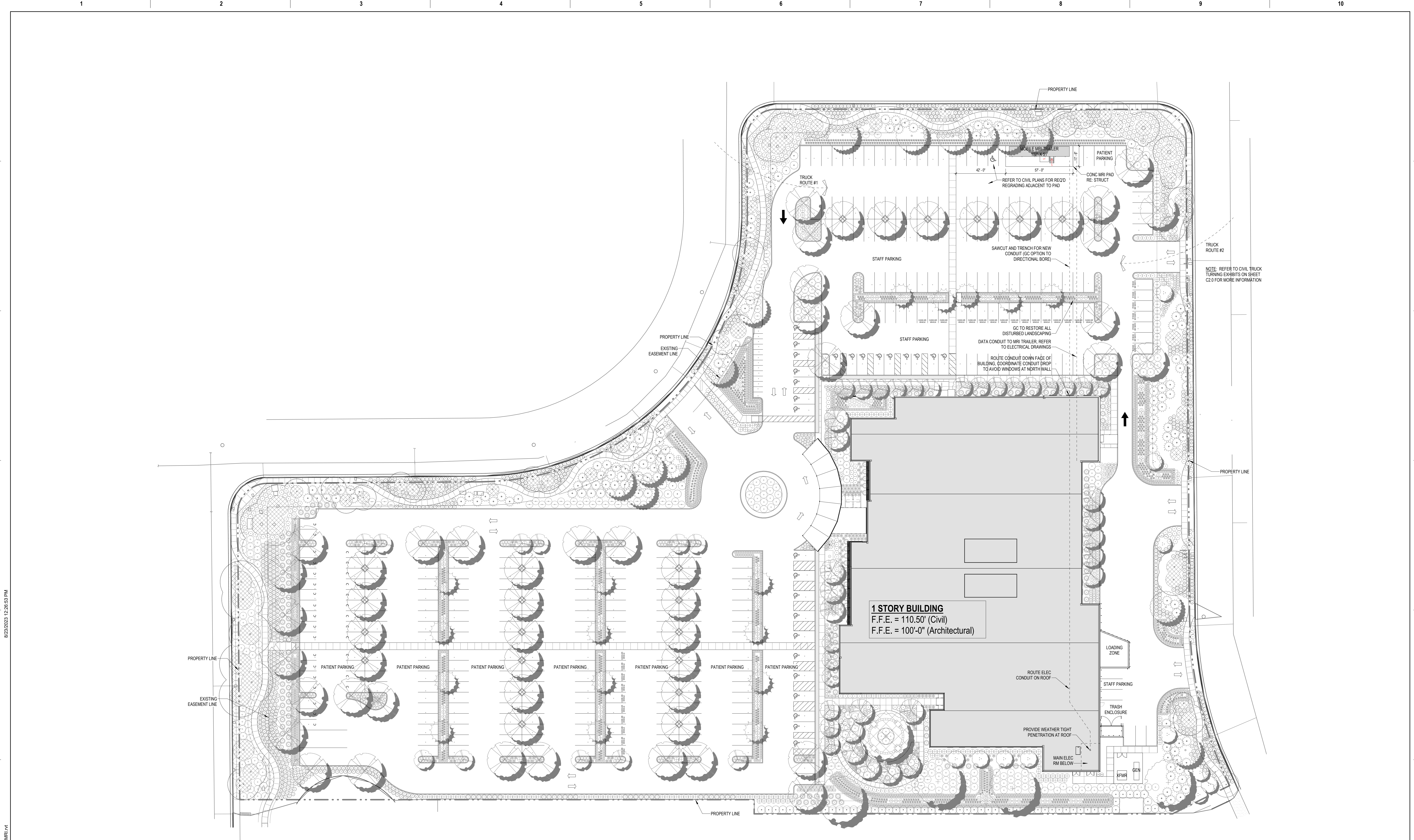


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| VA FORM 08 - 6231 |   |   |   |   |   |   |   |   |    |
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| ITEM | NO. | DATE | DESCRIPTION | CONSULTANT  | ARCHITECT/ENGINEER OF RECORD   | STAMP   | Office of Construction and Facilities Management     | Drawing Title                  | Phase                     | Project Title  | Project Number                  |             |                 |                |
|------|-----|------|-------------|---|--|---|--|--------------------------------|---------------------------|--|---------------------------------|-------------|-----------------|----------------|
|      |     |      |             |  <p>900 Larkspur Landing Circle, Suite 201   Larkspur, California 94939<br/>415.814.0030 martinmartin.com</p> | <p>A/E:</p> <p><b>LANTZ-BOGGIO</b><br/>Architects &amp; Interior Designers</p> <p>5650 DTC Pkwy.   Suite 200   Englewood   CO 80111   Ph: 303.773.0436</p> |  | <p><b>VA</b> U.S. Department of Veterans Affairs</p> | SITE PLAN - MOBILE MRI TRAILER | ISSUED FOR 100% VA REVIEW | SANTA ROSA COMMUNITY BASED<br>Santa Rosa MRI Trailer | Project Number<br>RLP No. _____ |             |                 |                |
|      |     |      |             |   |  |   |  |                                |                           |  |                                 |             | Building Number |                |
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|      |     |      |             |   |  |   |  | Approved:                      |                           | Location<br>SANTA ROSA CALIFORNIA                    |                                 |             |                 |                |
|      |     |      |             |   |  |   |  |                                | MRI CONCRETE PAD          | Issue Date<br>19 APRIL 2023                          | Checked<br>EG                   | Drawn<br>MA | S1.10           |                |





1 ARCHITECTURAL SITE PLAN  
1" = 30'-0"

BM 360 / 2016.22 Santa Rosa CBQC/2018

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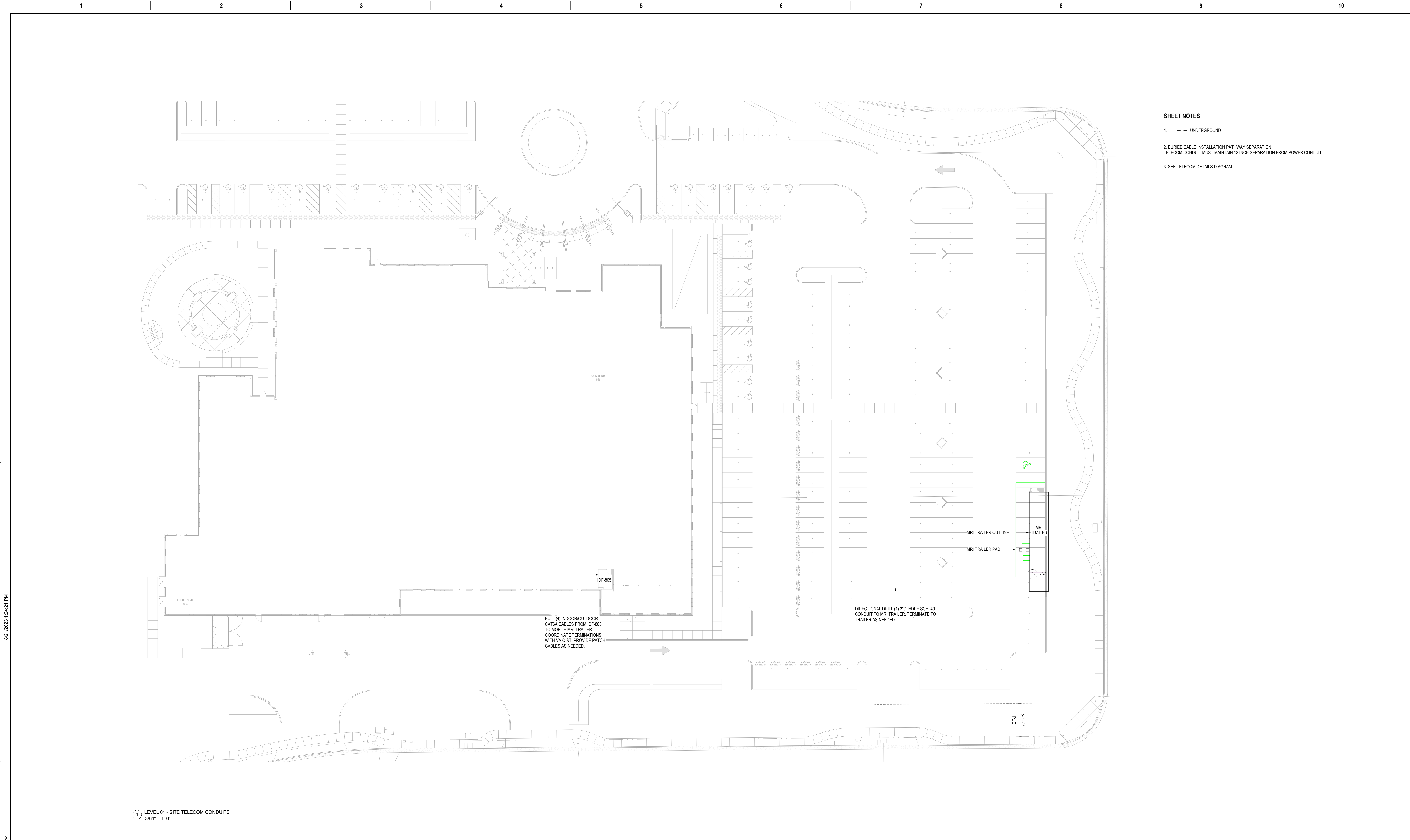














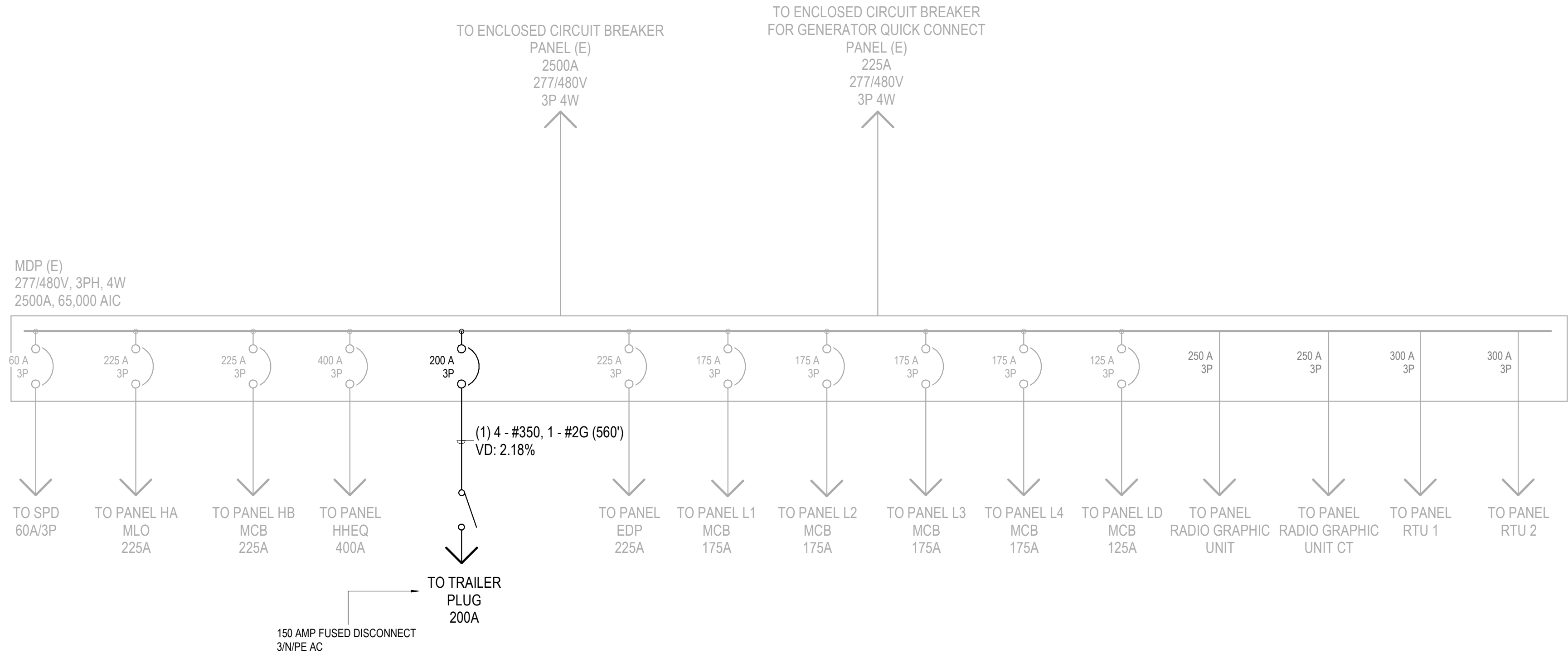
- SHEET NOTES**
1. — UNDERGROUND
  2. BURIED CABLE INSTALLATION PATHWAY SEPARATION  
TELECOM CONDUIT MUST MAINTAIN 12 INCH SEPARATION FROM POWER CONDUIT.
  3. SEE TELECOM DETAILS DIAGRAM.

| <table><tr><th>ITEM</th><th>NO.</th><th>DATE</th><th>DESCRIPTION</th></tr><tr><td>1</td><td>1</td><td>4/19/23</td><td>ELECTRICAL PERMIT SET</td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr><tr><td> </td><td> </td><td> </td><td> </td></tr></table> |     |         |                       | ITEM | NO. | DATE | DESCRIPTION | 1 | 1 | 4/19/23 | ELECTRICAL PERMIT SET |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | <div>CONSULTANT</div> <div><div></div><div><div>HELIX ELECTRIC</div><div>CONSTRUCTORS • ENGINEERS</div><div><small>4795 Flamingo Avenue   San Diego, CA 92121<br/>PH: (619) 555-0051 FAX: (619) 555-0757</small></div></div></div> |  | <div>ARCHITECT/ENGINEER OF RECORD</div> <div>A/E:<div><div>LANTZ-BOGGIO</div><div>Architects &amp; Interior Designers</div><div><small>5660 DTC Pkwy.   Suite 200   Englewood   CO 80111   Ph: 303.773.0436</small></div></div></div> |  | <div>STAMP</div> <div><div></div></div> |  | <div>Office of Construction and Facilities Management</div> <div>VAU.S. Department of Veterans Affairs</div> |  | <div>Drawing Title</div> <div>SITE - TELECOM CONDUITS</div> <div>Approved:</div> |  | <div>Phase</div> <div>ISSUED FOR 100% VA REVIEW</div> |  | <div>Project Title</div> <div>Santa Rosa MRI Trailer</div> <div>Location</div> <div>SANTA ROSA CALIFORNIA</div> <div><div>Issue Date</div><div>4/19/23</div><div><div>Checked</div><div>Checker</div><div>Drawn</div><div>Author</div></div></div> |  | <div>Project Number</div> <div>Building Number</div> <div>Drawing Number</div> <div>E1.2</div> |  |
|---|-----|---------|-----------------------|------|-----|------|-------------|---|---|---------|-----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|--|--|--|--|--|--|--|---|--|--|--|--|--|
| ITEM  | NO. | DATE    | DESCRIPTION           |      |     |      |             |   |   |         |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |
| 1   | 1   | 4/19/23 | ELECTRICAL PERMIT SET |      |     |      |             |   |   |         |                       |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |   |  |   |  |  |  |  |  |  |  |   |  |  |  |  |  |
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VA FORM 08 - 6231



1 SINGLE LINE DIAGRAM  
NTS

| LOAD SUMMARY FOR SANTA ROSA MOBILE MRI TRAILER |             |            |       |
|--|-------------|------------|-------|
| Main Switch Board                              | 3ø 277/480V | TOTAL AMPS | 2500  |
| PANEL NAME/AREA                                |             | AMPS       | kVA   |
| MRI TAILER                                     |             | 136        | 113.0 |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |
|  |             |            | 0.0   |

|                           |    |      |    |
|---------------------------|----|------|----|
| ELEVATOR                  | hp | AMPS | kW |
| Included in Existing Load |    | 0.0  |    |
| LARGEST MOTOR @25%        | hp | AMPS | kW |
| Included in Existing Load |    | 0.0  |    |

|  |      |       |
|--|------|-------|
| SUB-TOTAL  | AMPS | kW    |
|  | 136  | 113.0 |
| ADDITIONAL LOADS                                 | AMPS | kW    |
| EXISTING LOAD BASED ON POWER BILL 06/2022 @80%pf | 1037 | 861.7 |
|  | 0    | 0.0   |

|   |      |       |
|---|------|-------|
| Service size is adequate for main switchgear rating.<br>*All Amperage is rounded up to the nearest Amp* |      |       |
| TOTAL CONNECTED   | 1173 | 974.8 |

LOAD STUDY  
NTS

| Main Switchboard: MDP (E)  |                        |                    |               |                           |                                      |         |
|----------------------------|------------------------|--------------------|---------------|---------------------------|--------------------------------------|---------|
| Location: ELECTRICAL 884   |                        | Volts: 277/480 Vye |               | A.I.C. Rating: 65,000 AIC |                                      |         |
| Supply From: SE SWBD       |                        | Phases: 3          |               | Mains Type: MCB           |                                      |         |
| Mounting: SURFACED MOUNTED |                        | Wires: 4           |               | Mains Rating: 2500 A      |                                      |         |
| Enclosure: NEMA 1          |                        |                    |               | MCB Rating: 2500 A        |                                      |         |
| CKT                        | Circuit Description    | # of Poles         | Frame Size    | Trip Rating               | Load                                 | Remarks |
| 1                          | HB                     | 3                  | 225 A         | 225 A                     | 20 kVA                               | *       |
| 2                          | EDP                    | 3                  | 225 A         | 225 A                     | 116.3 kVA                            | *       |
| 3                          | HHEQ                   | 3                  | 400 A         | 400 A                     | 107.4 kVA                            | *       |
| 4                          | T2                     | 3                  | 175 A         | 175 A                     | 60.10 kVA                            | *       |
| 5                          | T1                     | 3                  | 175 A         | 175 A                     | 52.09 kVA                            | *       |
| 6                          | T0                     | 3                  | 125 A         | 125 A                     | 37.83 kVA                            | *       |
| 7                          | T3                     | 3                  | 175 A         | 175 A                     | 61.97 kVA                            | *       |
| 8                          | T4                     | 3                  | 175 A         | 175 A                     | 60.97 kVA                            | *       |
| 9                          | RTU-2                  | 3                  | 300 A         | 300 A                     | 165 kVA                              | *       |
| 10                         | RADIOGRAPHIC UNIT      | 3                  | 250 A         | 250 A                     | 125 kVA                              | *       |
| 11                         | RADIOGRAPHIC UNIT (CT) | 3                  | 250 A         | 250 A                     | 200 kVA                              | *       |
| 12                         | RTU-1                  | 3                  | 300 A         | 300 A                     | 165 kVA                              | *       |
| 13                         | MRI TRAILER            | 3                  | 200 A         | 200 A                     | 113 kVA                              |         |
| 14                         |                        |                    |               |                           |                                      |         |
| 15                         |                        |                    |               |                           |                                      |         |
| 16                         |                        |                    |               |                           |                                      |         |
| 17                         |                        |                    |               |                           |                                      |         |
| 18                         |                        |                    |               |                           |                                      |         |
| 19                         |                        |                    |               |                           |                                      |         |
| 20                         |                        |                    |               |                           |                                      |         |
| 21                         |                        |                    |               |                           |                                      |         |
| Total Conn Load:           |                        |                    |               |                           | 1284.49 kVA                          |         |
| Total Amps:                |                        |                    |               |                           | 1545.71 A                            |         |
| Legend:                    |                        |                    |               |                           |                                      |         |
|                            |                        |                    |               |                           |                                      |         |
| Load Classification        |                        | Connected Load     | Demand Factor | Estimated Demand          | Panel Totals                         |         |
| LIGHTING LOAD              |                        | 28.0 kVA           | 1.25          | 35.0 kVA                  |                                      |         |
| RECEPTACLE LOAD            |                        | 315.36 kVA         | NEC           | 162.68 kVA                | Total Conn. Load: 1284.49 kVA        |         |
| HVAC LOAD                  |                        | 434.8 kVA          | 1.00          | 434.8 kVA                 | Total Est. Demand: 1251.86 kVA       |         |
| EQUIPMENT LOAD             |                        | 506.4 kVA          | 1.00          | 506.4 kVA                 | Total Conn. Current:                 |         |
|                            |                        |                    |               |                           | Total Est. Demand Current: 1506.47 A |         |
| MRI TRAILER                |                        | 113 kVA            | 1.00          | 113 kVA                   |                                      |         |
| Notes:                     |                        |                    |               |                           |                                      |         |

SHEET NOTES

- IF MDP SCHEDULE CIRCUIT NOTED WITH AN \*\*\* REUSE EXISTING CIRCUIT FOR ELECTRICAL EQUIPMENT.
- FOR MDP SCHEDULE REFER TO BUILDING AS BUILT DRAWINGS.
- EXISTING SWITCHBOARD MDP MANUFACTURED BY SCHNEIDER ELECTRIC FACTORY ORDER# 43531136. CONSULT SCHNEIDER ELECTRIC REPRESENTATIVE FOR APPROPRIATE BREAKER TYPE AND STYLE.
- FOR FUSE DISCONNECT DETAILS REFER TO SHEET E68 POWER DETAILS.

Short-Circuit Calculations

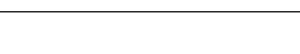

The following calculations are based on the "Point-by Point" method where:

$I_{sc} = I_{sc}(\text{source}) \times M$      $M = 1/(1+f)$      $f = \frac{1.732 \times L \times I}{C \times E}$     3ø    XFMR:     $IP(sca) = \frac{IP(sca) \times V_p \times \%Z}{100,000 \times KVA}$      $IS(sca) = \frac{V_p \times M \times IS(sca)}{V_s}$      $V_{drop} = \frac{(2 \times I \times L \times R \times 0.866)}{(n \times 1000)}$      $VD \% = \frac{V_{drop}}{V_{LL}}$      $n = \text{number of parallel runs}$

(All calculations utilize copper conductors)

| Fault Point | Panel Transformer | Source (Fault Point) | Source I (amps) | M, NM AM, ANM | (n) Wire/Bus Size | C' value | E (volts) | L (length) | X'FMR KVA | X'FMR Z | f     | M     | Isc   | Isc_Motor | Isc_Total | CU,AL CU9,AL9 C9P,ASP,ASRP | Phase | Resistance R' value | LOAD AMPS | Vdrop Volts | VD %     |
|-------------|-------------------|----------------------|-----------------|---------------|-------------------|----------|-----------|------------|-----------|---------|-------|-------|-------|-----------|-----------|----------------------------|-------|---------------------|-----------|-------------|----------|
| 1           | MDP               |                      |                 |               |                   |          | 480       |            |           |         |       |       | 65000 |           |           |                            |       |                     |           |             |          |
| 2           | MRI TRAILER       | 1                    | 65000           | NM            | 1 SET OF 350 KCML | 16813    | 480       | 560        |           |         | 7.812 | 0.113 | 7376  |           |           | AL                         | 0.866 | 0.0770              | 136       | 10.15700    | 2.116042 |

4 SCCR  
12" = 1'-0"

| ITEM | NO. | DATE    | DESCRIPTION           | CONSULTANT   | ARCHITECT/ENGINEER OF RECORD   | STAMP   | Drawing Title                      | Phase                     | Project Title                     | Project Number |
|------|-----|---------|-----------------------|--|--|---|------------------------------------|---------------------------|-----------------------------------|----------------|
| 1    | 1   | 4/19/23 | ELECTRICAL PERMIT SET | <div><div>HELIX ELECTRIC<br/>CONSTRUCTORS • ENGINEERS<br/>4795 Piedmont Drive • San Diego, CA 92121<br/>PH: (619) 555-0055 FAX: (619) 555-0757</div></div> | A/E:<br>LANTZ-BOGGIO<br>Architects & Interior Designers<br>5650 DTC Pkwy   Suite 200   Englewood   CO 80111   Ph: 303.773.0436 |  | PRELIMINARY SINGLE LINE<br>DIAGRAM | ISSUED FOR 100% VA REVIEW | Santa Rosa MRI Trailer            |                |
|      |     |         |                       |  |  |   | Approved:                          |                           | Location<br>SANTA ROSA CALIFORNIA | Drawing Number |
|      |     |         |                       |  |  |   |                                    |                           | Issue Date<br>4/19/23             | Checked<br>ES  |
|      |     |         |                       |  |  |   |                                    |                           | Drawn<br>ES                       | E4             |



12345678910

A

B

C

D

E

F

EXISTING IDF 805

EXISTING LT RACK

VERACITY 8-PORT EXTENDER  
VLS-SL-B8

CAT6A PATCH CABLE

POWER SUPPLY  
VPSU-POE

(6) CAT6A INDOOR/OUTDOOR CABLES  
(INCLUDES 2 SPARE)

MRI TRAILER BY OTHERS

VERACITY ETHERNET DEVICE

VLS-1P-C

VLS-1P-C

VLS-1P-C

VLS-1P-C

NOTES:

1. 8-PORT EXTENDER REQUIRES 120V POWER. UTILIZE EXISTING WALL OUTLET FOR POWER.

2. INTENT IS TO PROVIDE A FULLY FUNCTIONAL AND TURNKEY TELECOM INFRASTRUCTURE AND EQUIPMENT SOLUTION TO SERVICE THE MOBILE MRI TRAILER.

3. PROVIDE ALL NECESSARY ANCILLARY ITEMS AS NECESSARY TO FULFILL THE DESIGN INTENT.

4. PROVIDE ADDITIONAL PATCH PANEL IF NO AVAILABLE PATCH CORD POSITIONS ARE AVAILABLE.

5. COORDINATE WITH VA IT FOR PATCH CABLE AND PATCH PANEL POSITIONING UTILIZE EXISTING IDF 805 CABLE TRAY AND AVAILABLE LADDER RACK TO PROVIDE AN ORGANIZED AND PROFESSIONAL INSTALLATION.

6. PROVIDE DITEX MRX-POE (OR EQUAL) SURGE PROTECTION DEVICE FOR ALL CABLES (ONE DEVICE AT EACH HEAD AND TAIL END).

1

TELECOM DIAGRAM

NTS

|           |          |                 |                                      |
|-----------|----------|-----------------|--------------------------------------|
| ITEM<br>1 | NO.<br>1 | DATE<br>4/19/23 | DESCRIPTION<br>ELECTRICAL PERMIT SET |
|           |          |                 |                                      |
|           |          |                 |                                      |
|           |          |                 |                                      |
|           |          |                 |                                      |
|           |          |                 |                                      |
|           |          |                 |                                      |
|           |          |                 |                                      |

CONSULTANT

HIE

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ARCHITECT/ENGINEER OF RECORD

A/E:

LANTZ-BOGGIO

Architects & Interior Designers

5650 DTC Pkwy. | Suite 200 | Englewood | CO 80111 | Ph: 303.773.0436

STAMP

Professional Engineer  
Joseph G. Boggio  
No. E 23951  
Electrical  
State of California

Office of Construction and Facilities Management

VA U.S. Department of Veterans Affairs

Drawing Title

TELECOM DETAILS

Approved:

Phase

ISSUED FOR 100% VA REVIEW

Project Title

Santa Rosa MRI Trailer

Location

SANTA ROSA CALIFORNIA

Issue Date

4/19/23

Checked

Checker

Drawn

Author

Project Number

Building Number

Drawing Number

E6

VA FORM 08 - 6231

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