

TESLA

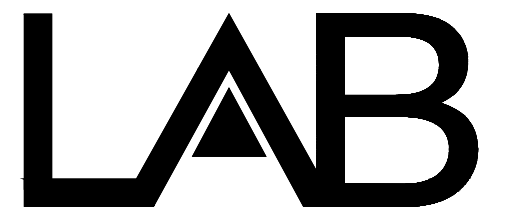


SUPERCHARGING STATION

MADISON, WI - S WHITNEY WAY
 HY-VEE MADISON #2
 SITE NAME: MADISON, WI (TRT#12707)
 675 S WHITNEY WAY
 MADISON, WI 53711



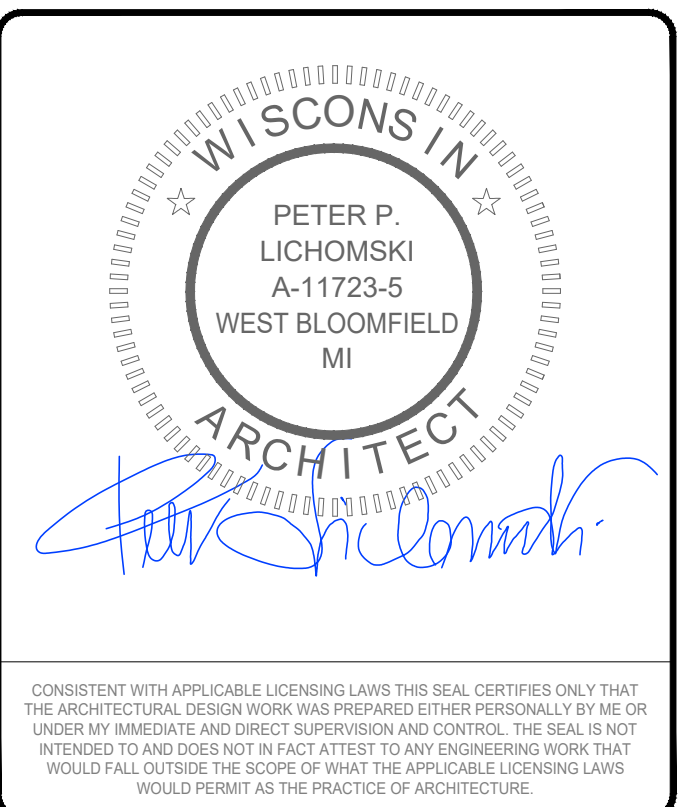
3500 DEER CREEK RD
 PALO ALTO, CA 94304
 (650) 681-5000



49030 Pontiac Trail, Ste 400
 Wixom, Michigan 48393
 PHONE: 248-705-9212

DRAWN BY: RC
 CHECKED BY: PL

| REV | DATE | DESCRIPTION |
|-----|------------|--------------|
| D | 10/20/2020 | CD90 |
| C | 07/30/2020 | CD90 |
| B | 01/20/2020 | REVISED CD50 |
| A | 01/06/2020 | CD50 |



SITE NAME: MADISON, WI
 (TRT#12707)
 675 S WHITNEY WAY,
 MADISON, WI 53711

SHEET TITLE
TITLE SHEET & PROJECT DATA

SHEET NUMBER
T-1

SITE INFORMATION

PROPOSED TESLA EV SITE ADDRESS:
 675 S WHITNEY WAY
 MADISON, WI 53711

EXISTING SITE ADDRESS:
 675 S WHITNEY WAY
 MADISON, WI 53711

PROPERTY OWNER:
 HY VEE

EQUIPMENT SUPPLIER:
 TESLA MOTORS, INC.
 3500 DEER CREEK RD
 PALO ALTO, CA 94304
 (650) 681-5000

POWER COMPANY:
 MADISON GAS & ELECTRIC

COUNTY:
 DANE COUNTY

LATITUDE (NAD83):
 43° 03' 00.8" N
 43.050223°

LONGITUDE (NAD83):
 89° 28' 20.5" W
 -89.472362°

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

2015 INTERNATIONAL BUILDING CODE
 2017 NATIONAL ELECTRIC CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION

- INSTALL (2) TESLA SUPERCHARGER CABINETS
- INSTALL (8) TESLA CHARGING STATIONS
- INSTALL (1) QED SWITCHGEAR ASSEMBLY
- INSTALL (1) UTILITY TRANSFORMER

ZONNING INFORMATION

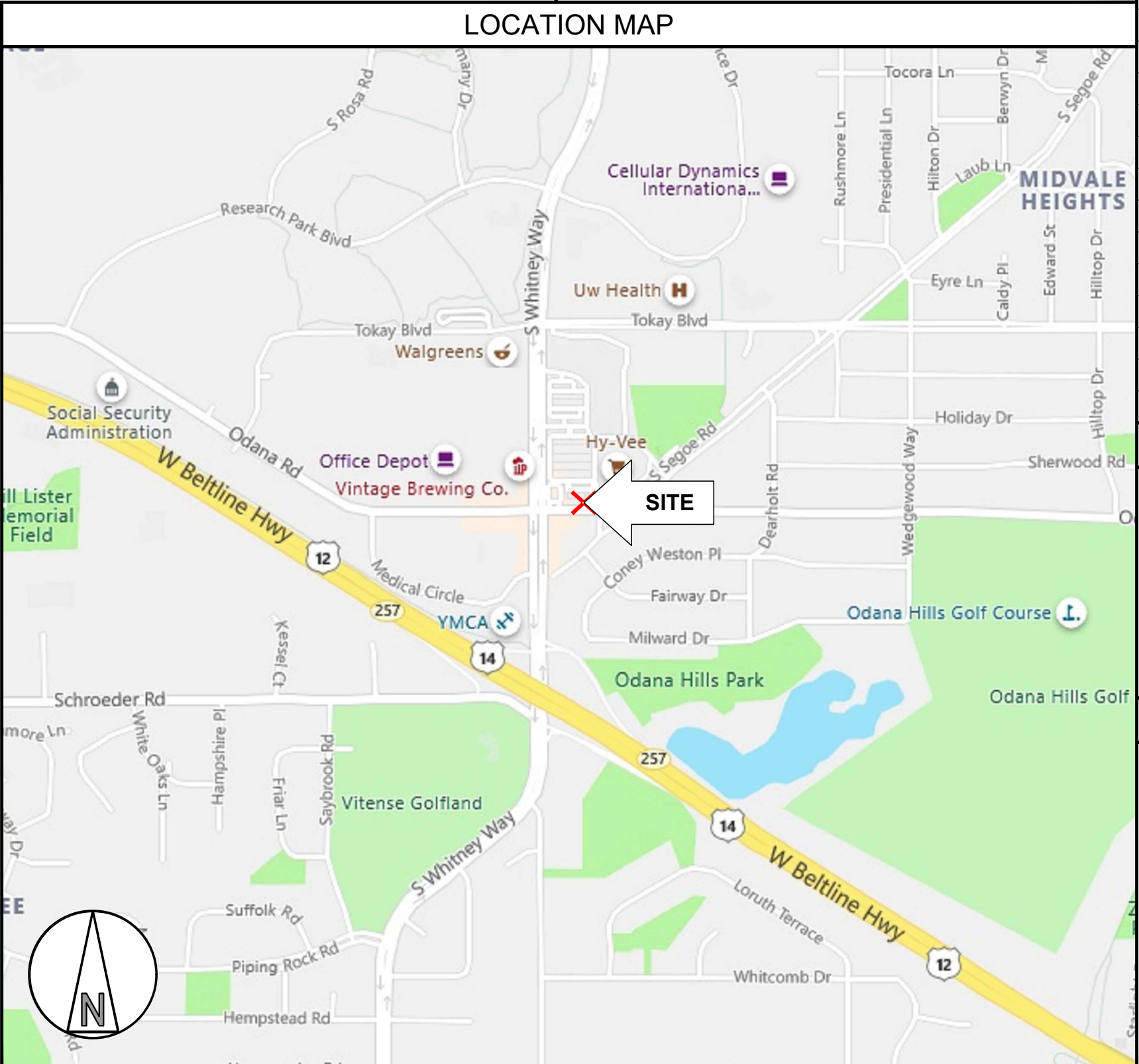
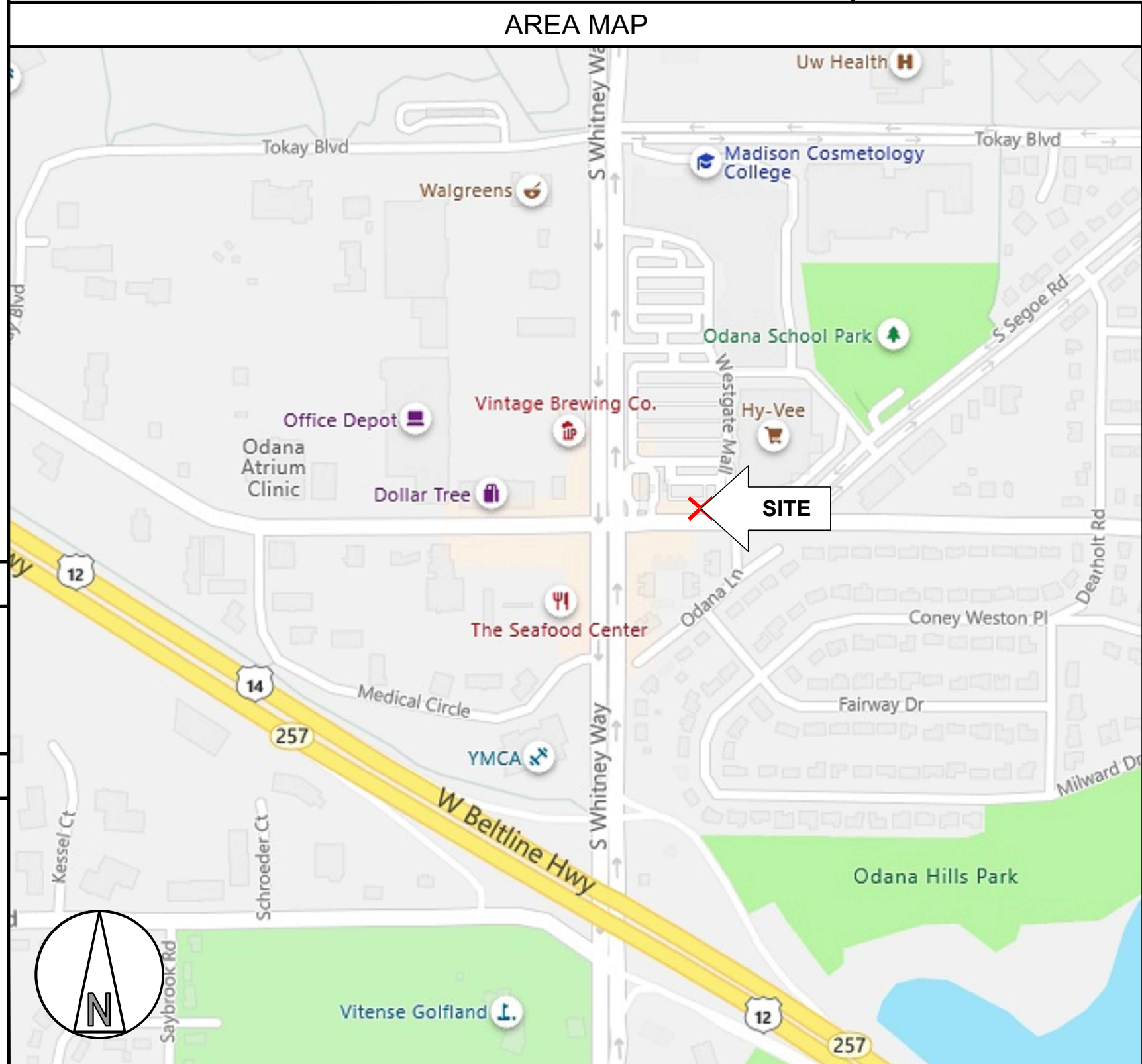
PERMITTING JURISDICTION: JENNY KIRCHGATTER
 jkirchgatter@cityofmadison.com
 (608) 266 4551

DO NOT SCALE DRAWINGS

CONTRACTOR SHALL VERIFY ALL PLANS, EXIST'G DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT / ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

DRAWING INDEX

| SHEET NO: | SHEET TITLE |
|-----------|---|
| T-1 | TITLE SHEET & PROJECT DATA |
| 1 OF 1 | TOPOGRAPHIC SURVEY |
| A-1 | OVERALL SITE PLAN |
| A-2 | DEMOLITION PLAN |
| A-3 | PROPOSED SITE PLAN |
| A-4 | SITE ELEVATIONS |
| E-1 | UTILITY PLAN |
| E-2 | ELECTRICAL PLAN & PANEL SCHEDULE 'MDP' |
| E-3 | SYSTEM ONE-LINE & V3 SUPERCHARGER INTERCONNECTION DIAGRAM |
| G-1 | GROUNDING DETAILS |
| D-1 | INSTALLATION DETAILS |
| D-2 | INSTALLATION DETAILS |
| D-3 | INSTALLATION DETAILS |
| D-4 | INSTALLATION DETAILS |
| D-5 | INSTALLATION DETAILS |
| D-6 | INSTALLATION DETAILS |
| D-7 | INSTALLATION DETAILS |
| D-8 | INSTALLATION DETAILS |
| D-9 | INSTALLATION DETAILS |
| D-10 | INSTALLATION DETAILS |



FLOOD HAZARD AREA NOTE

THIS SITE IS LOCATED IN FLOOD ZONE "X". NO BASE FLOOD ELEVATION. AREA DETERMINED TO BE OUTSIDE 500-YEAR FLOOD PLAIN.

CONTRACTOR NOTE

CONTRACTOR SHALL COMPLETE INSTALL PER THE SIGNED AND SEALED SET OF DRAWINGS. ANY NECESSARY DEVIATIONS FROM THE DRAWINGS MUST BE SUBMITTED THROUGH AN RFI REQUEST PROCESS WITH ARCHITECT / ENGINEER FOR AN APPROVAL PRIOR TO CONTRACTOR PROCEEDING WITH A DEVIATION OF THE SIGNED AND SEALED SET OF DRAWINGS.

ARCHITECT OF RECORD

PETER LICHOMSKI, ARCHITECT
 49030 PONTIAC TRAIL, SUITE 400
 WIXOM, MI 48393
 (248) 705-9212
 peterlichomski@labarchitectsllc.com

PROJECT ENGINEER

CLARK TROMBLEY RANDERS
 CONSULTING ENGINEERS
 504 S. CREYTS RD, SUITE B
 LANSING, MI 48917
 (517) 886-0550
rhymen@ctrmep.com

CALL BEFORE YOU DIG

IF YOU DIG IN ANY STATE DIAL 811 FOR THE LOCAL "ONE CALL CENTER" - IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO THE EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

VICINITY MAP



PROPERTY DESCRIPTION:

Block One (1), Westgate, in the City of Madison, Dane county, state of Wisconsin, except the southerly 150.0 feet of the westerly 150.0 feet thereof.
Per Deed recorded December 1, 2011 under document no. 4818338 in Dane County, Wisconsin

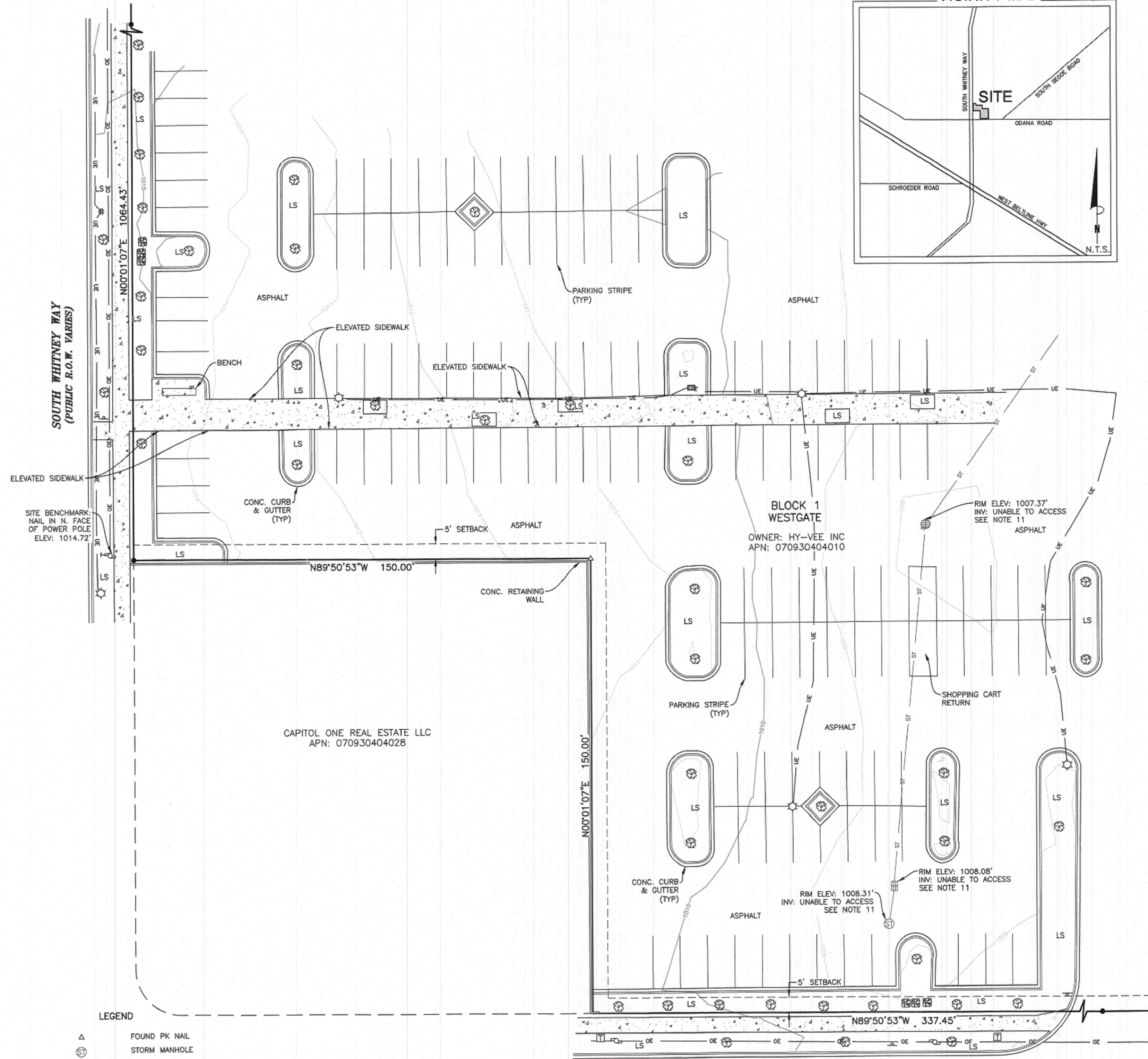
SCHEDULE B2 EXCEPTIONS:

- Item No.
- SUBJECT TO PLAT OF WESTGATE RECORDED 4/1/1959, DOC # 977079, DANE COUNTY RECORDS.
-IS LOCATED ON SUBJECT PARCEL, BLANKET IN NATURE.
 - SUBJECT TO RIGHT OF WAY FOR TELEPHONE LINE EXTENSION FROM MJV COMPANY, INC. TO WISCONSIN TELEPHONE COMPANY RECORDED 12/7/1959, DOC # 993203, DANE COUNTY RECORDS.
GRANTOR: MJV Company, Inc. GRANTEE: Wisconsin Telephone Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO RIGHT OF WAY FOR GAS MAIN EXTENSION FROM MJV COMPANY, INC. TO MADISON GAS AND ELECTRIC COMPANY RECORDED 8/23/1973, DOC # 1375955, DANE COUNTY RECORDS.
GRANTOR: MJV Company, Inc., GRANTEE: Madison Gas and Electric Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO RIGHT OF WAY FOR LINE AND POLE EXTENSION FROM MJV COMPANY, INC. TO MADISON GAS AND ELECTRIC COMPANY RECORDED 8/23/1973, DOC # 1375956, DANE COUNTY RECORDS.
GRANTOR: MJV Company, Inc., GRANTEE: Madison Gas and Electric Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO RIGHT OF WAY GRANT UNDERGROUND ELECTRIC FROM WESTGATE SHOPPING CENTER TO MADISON GAS AND ELECTRIC COMPANY RECORDED 11/7/1973, DOC # 1382495, DANE COUNTY RECORDS.
GRANTOR: Westgate Shopping Center, GRANTEE: Madison Gas and Electric Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO RIGHT OF WAY GRANT UNDERGROUND ELECTRIC FROM WESTGATE SHOPPING CENTER TO MADISON GAS AND ELECTRIC COMPANY RECORDED 11/21/1978, DOC # 1601233, DANE COUNTY RECORDS.
GRANTOR: Westgate Shopping Center, GRANTEE: Madison Gas and Electric Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO RIGHT OF WAY GRANT UNDERGROUND ELECTRIC FROM WESTGATE SHOPPING CENTER TO MADISON GAS AND ELECTRIC COMPANY RECORDED 12/17/1985, DOC # 1914032, DANE COUNTY RECORDS.
GRANTOR: Westgate Shopping Center, GRANTEE: Madison Gas and Electric Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO RIGHT OF WAY GRANT UNDERGROUND ELECTRIC - GAS MAIN FROM WESTGATE SHOPPING CENTER RIK, INC. TO MADISON GAS AND ELECTRIC COMPANY RECORDED 1/10/1990, DOC #2180441, DANE COUNTY RECORDS.
GRANTOR: Westgate Shopping Center, GRANTEE: Madison Gas and Electric Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO MEMORANDUM OF LEASE BETWEEN WESTGATE SHOPPING CENTER AND NEWTON BUYING CORP. RECORDED 10/26/1982, DOC # 1756222, DANE COUNTY RECORDS. AMENDMENT TO MEMORANDUM OF LEASE RECORDED 1/18/1995, DOC # 2656028, DANE COUNTY RECORDS.
BETWEEN: Westgate Shopping Center and Newton Buying Corp.
-NOT SURVEY RELATED.
 - SUBJECT TO MEMORANDUM OF LEASE BETWEEN WESTGATE SHOPPING CENTER AND COMMONWEALTH TRADING, INC. RECORDED 8/17/1983, DOC# 1795883, DANE COUNTY RECORDS.
BETWEEN: Westgate Shopping Center and Commonwealth Trading, Inc.
-NOT SURVEY RELATED.
 - SUBJECT TO LEASE BETWEEN RIK, INC. FKA WESTGATE MALL SHOPPING CENTER AND MINNESOTA FABRICS, INC. RECORDED 12/22/1999, DOC # 3180433, DANE COUNTY RECORDS. MEMORANDUM OF AMENDMENT NO. 2 TO LEASE RECORDED 12/1/2011, DOC # 4818339, DANE COUNTY RECORDS. (NO AMENDMENT NO. 1 WAS FOUND OF RECORD)
BETWEEN: Rik, Inc. FKA, Westgate Mall Shopping Center and Minnesota Fabrics, Inc.
-NOT SURVEY RELATED.
 - SUBJECT TO RIGHT OF WAY GRANT UNDERGROUND ELECTRIC FROM WESTGATE MALL 1999, LLC, TO MADISON GAS AND ELECTRIC COMPANY RECORDED 4/19/2005, DOC # 4043306, DANE COUNTY RECORDS.
GRANTOR: Westgate Mall 1999, LLC, GRANTEE: Madison Gas and Electric Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO DECLARATION OF CONDITIONS, COVENANTS AND RESTRICTIONS FOR MAINTENANCE OF STORMWATER MANAGEMENT MEASURES BY HY-VEE, INC. RECORDED 2/8/2012, DOC# 4840999, DANE COUNTY RECORDS.
BY: HY-VEE, Inc.,
-NOT SURVEY RELATED.
 - SUBJECT TO RIGHT OF WAY GRANT UNDERGROUND ELECTRIC - GAS MAIN FROM HY-VEE, INC. TO MADISON GAS AND ELECTRIC COMPANY RECORDED 11/30/2012, DOC # 4937018, DANE COUNTY RECORDS.
GRANTOR: HY-VEE, Inc., GRANTEE: Madison Gas and Electric Company
-IS LOCATED ON SUBJECT PARCEL, DOES NOT AFFECT SURVEY AREA.
 - SUBJECT TO DECLARATION OF EASEMENTS, COVENANTS AND RESTRICTIONS BY HY-VEE, INC. RECORDED 10/9/2019, DOC # 5529388, DANE COUNTY RECORDS.
BY: HY-VEE, Inc.,
-IS LOCATED ON SUBJECT PARCEL, BLANKET IN NATURE.

Items not listed above are determined non-survey related items and are not plotted hereon.

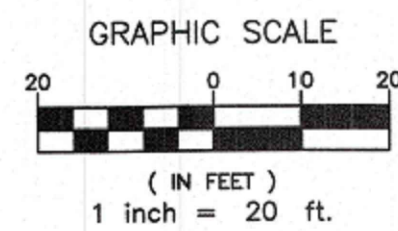
NOTES:

- This is a topographic map. This is not a boundary survey and is only intended to depict those topographic features or improvements shown. The property lines shown are record lines only and are shown for graphical reference only.
- Any underground utilities shown have been located from field survey information. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated although he does certify that they are located as accurately as possible from the information available.
- FEDERAL EMERGENCY MANAGEMENT AGENCY, FEMA FIRMeTte published December 6, 2019, referencing Flood Insurance Rate Map, Map Number 55025C0415G effective date January 2, 2009, indicates this parcel of land is located in Zone X (Area of minimal flood hazard).
- This survey does not constitute a title search by Clark Land Surveying, Inc. to determine ownership or easements of record. For all information regarding easements, rights of way and title of record, Clark Land Surveying, Inc. relied upon a Search Report, prepared by AMC Settlement Services with an order number of 191005, dated November 5, 2019.
- Elevations are based on NAVD 88 datum.
- BENCHMARK: Nail in north side of power pole, as shown. Elevation: 1014.72' (NAVD 88).
- BASIS OF BEARINGS: Bearings referenced to the Dane County Coordinate System and the west line of Lot 1, Westgate. Assumed to bear N00°01'17"E (recorded as N00°37'00"W)
- Field work for this survey was completed on November 27, 2019.
- The owner names and tax parcel data shown hereon are based upon the public records available at the original date of this survey. Current ownership and tax parcel data should be verified for accuracy.
- This site is zoned "CC" (Commercial Center) per City of Madison Planning Department.
Building Setbacks:
Front: No more than 85', Side: 5', Rear: 20'
No zoning information provided by the client. Zoning setbacks shown hereon are the interpretation of the surveyor. For clarification of exact zoning designations and setback locations, please, contact the City of Madison Planning and Zoning Department at (608)266-4551.
- All storm inverts and pipe directions are shown as approximate locations as all storm inlets had metal screens attached for debris collection at the time of survey.



LEGEND

- △ FOUND PK NAIL
- ⊙ STORM MANHOLE
- ⊕ FOUND 3/4" REBAR W/ CAP
- ⊖ STORM INLET (ROUND)
- ⊚ STORM INLET (RECTANGLE)
- ☆ LIGHT POLE
- ⊠ ELECTRIC BOX
- ⊔ GUYWIRE
- ⊕ UTILITY POLE
- ⊖ TELEPHONE PEDESTAL
- ⊙ METAL POLE
- ⊕ DECIDUOUS TREE
- ⊙ SHRUB
- ⊕ LANDSCAPED AREA
- ⊙ SIGN
- ST — STORM LINE (UNDERGROUND)
- UE — ELECTRIC LINE (UNDERGROUND)
- OE — ELECTRIC LINE (OVERHEAD)
- ⊕ CONCRETE AREA



SURVEYOR'S STATEMENT:

On the basis of my knowledge, information and belief, I hereby state and declare that this drawing was prepared under my direct supervision to the standard of care of surveyors practicing in the State of Wisconsin and that the information shown hereon is true and correct to the best of my knowledge and belief.

This statement is neither a warranty nor a guarantee, either expressed or implied.



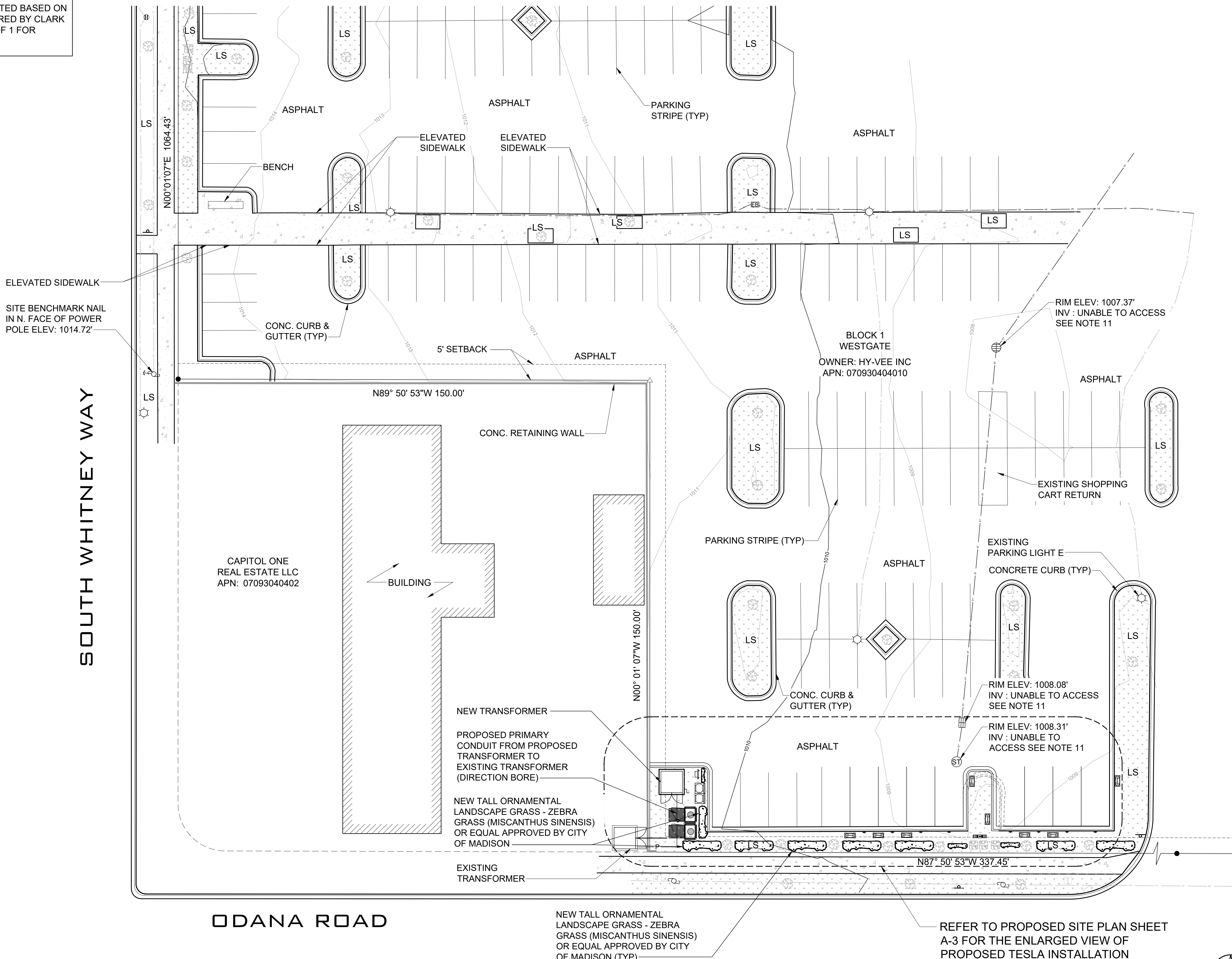
Steven C. Dejong
Wisconsin Land Surveyor No. S-2791
For and on behalf of Clark Land Surveying, Inc.

| No. | Description | By | Date |
|-----|-------------|----|------|
| | | | |
| | | | |
| | | | |

SITE NAME:
Madison, WI

ENGINEERING DESIGN SURVEY
A PORTION OF THE SE1/4 OF SECTION 30,
TOWNSHIP 7 NORTH, RANGE 9 EAST OF THE FOURTH P.M.,
CITY OF MADISON, DANE COUNTY WISCONSIN
Date: 12/9/2019
Sheet 1 of 1
Project No. 191005
Drawn By: SCG
Checked By: SCG

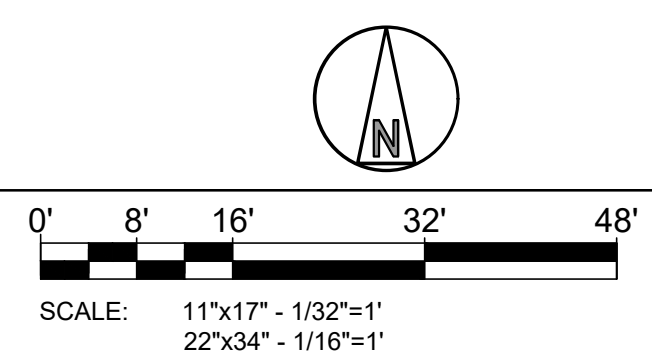
OVERALL SITE PLAN CREATED BASED ON SURVEY DRAWING PREPARED BY CLARK CO. - REFER TO SHEET 1 OF 1 FOR ADDITIONAL INFO.



SOUTH WHITNEY WAY

ODANA ROAD

OVERALL SITE PLAN



TESLA

3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 681-5000

LAB

49030 Pontiac Trail, Ste 400
Wixom, Michigan 48393
PHONE: 248-705-9212

| | |
|-------------|----|
| DRAWN BY: | RC |
| CHECKED BY: | PL |

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WISCONSIN ARCHITECT

PETER P. LICHOMSKI
A-11723-5
WEST BLOOMFIELD MI

Peter P. Lichomski

CONSISTENT WITH APPLICABLE LICENSING LAWS THIS SEAL CERTIFIES ONLY THAT THE ARCHITECTURAL DESIGN WORK WAS PREPARED EITHER PERSONALLY BY ME OR UNDER MY IMMEDIATE AND DIRECT SUPERVISION AND CONTROL. THE SEAL IS NOT INTENDED TO AND DOES NOT IN FACT ATTEST TO ANY ENGINEERING WORK THAT WOULD FALL OUTSIDE THE SCOPE OF WHAT THE APPLICABLE LICENSING LAWS WOULD PERMIT AS THE PRACTICE OF ARCHITECTURE.

SITE NAME: MADISON, WI (TRT#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
OVERALL SITE PLAN

SHEET NUMBER
A-1

REFER TO PROPOSED SITE PLAN SHEET A-3 FOR THE ENLARGED VIEW OF PROPOSED TESLA INSTALLATION



3500 DEER CREEK RD
PALO ALTO, CA 94304
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PHONE: 248-705-9212

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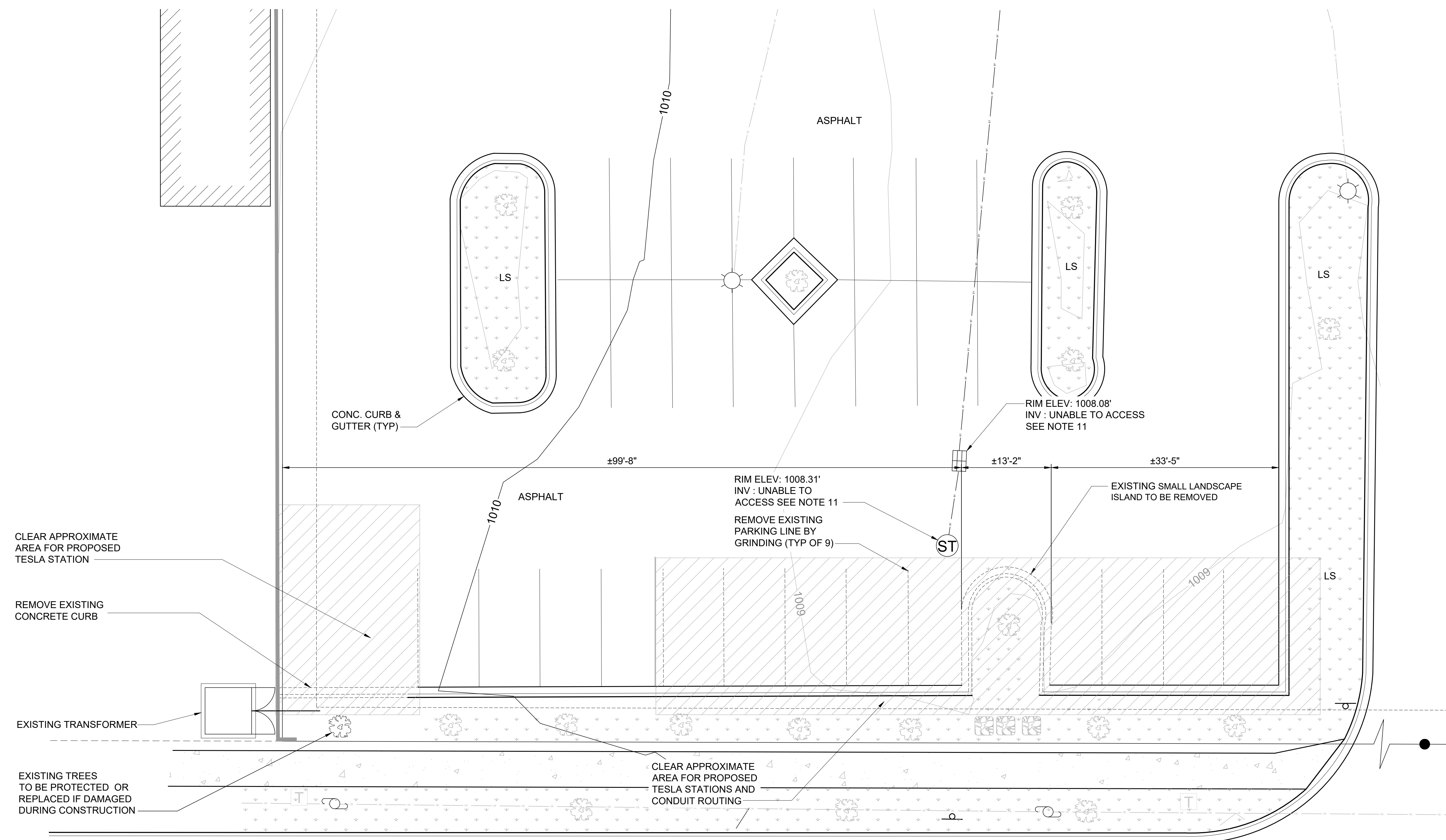
WISCONSIN ARCHITECT
 PETER P. LICHOMSKI
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SITE NAME: MADISON, WI
(TRT#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
DEMOLITION PLAN

SHEET NUMBER
A-2



CLEAR APPROXIMATE
AREA FOR PROPOSED
TESLA STATION

REMOVE EXISTING
CONCRETE CURB

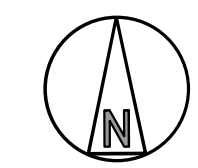
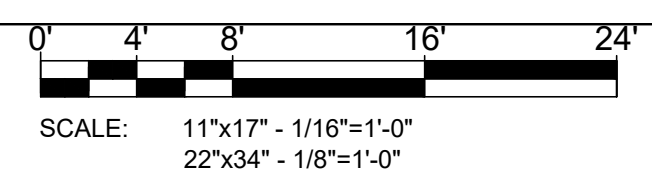
EXISTING TRANSFORMER

EXISTING TREES
TO BE PROTECTED OR
REPLACED IF DAMAGED
DURING CONSTRUCTION

CLEAR APPROXIMATE
AREA FOR PROPOSED
TESLA STATIONS AND
CONDUIT ROUTING

ODANA ROAD

DEMOLITION PLAN



NOTES

1. THE CONTRACTOR SHALL VERIFY ALL DEMOLITION AND CONSTRUCTION QUANTITIES PRIOR TO BIDDING.
2. TRANSFORMER TO BE INSTALLED PER MANUFACTURER INSTRUCTIONS.

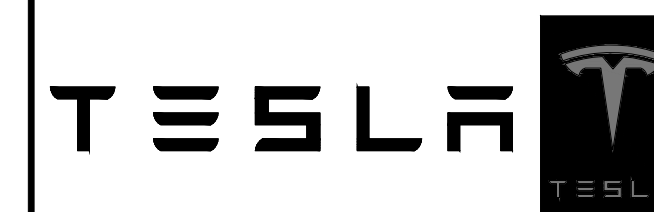
| TESLA EQUIPMENT SCHEDULE | | | |
|--------------------------|----------------------------|--------------|----------|
| TESLA EQUIPMENT | DESCRIPTION | PART NUMBER | QUANTITY |
| SUPERCHARGING CABINETS | VERSION 3 | 1450758-00-D | 2 |
| CHARGING POST | VERSION 3 | 1088585-00-D | 8 |
| SITE MASTER CONTROLLER | INDUSTRIAL SITE CONTROLLER | 1137202-02-C | 1 |

NOTES

1. CONTRACTOR SHALL RETURN ALL DISTURBED AREAS OF PROPERTY TO ORIGINAL SITE CONDITION.
2. FOR SIGNAGE INFORMATION SEE SHEET A-5.
3. THE CONTRACTOR SHALL VERIFY ALL DEMOLITION AND CONSTRUCTION QUANTITIES PRIOR TO BIDDING.

PROJECT AREA STALL COUNT

| | |
|--------------------------------|----|
| EXISTING STALL COUNT | 13 |
| PROPOSED TESLA CHARGING STALLS | 8 |
| EXISTING STALLS TO REMAIN | 4 |



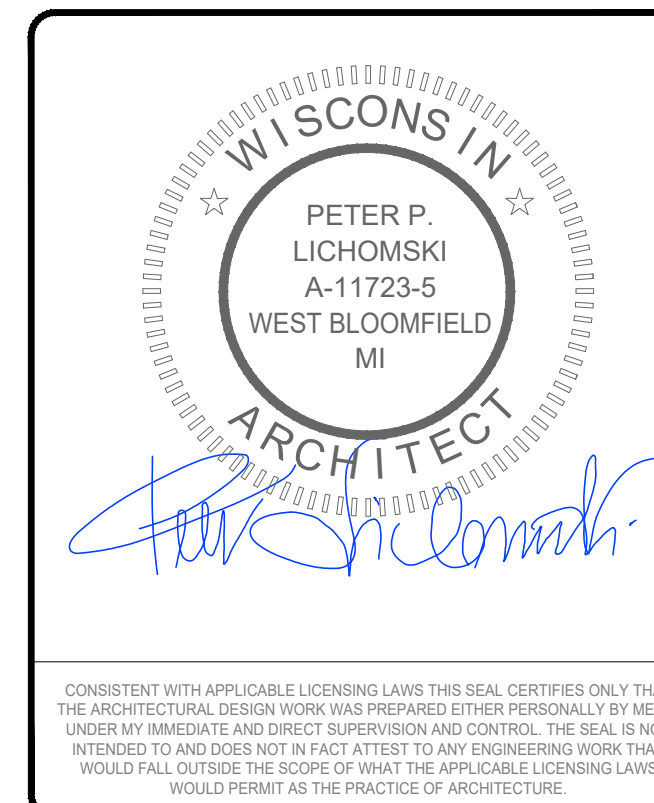
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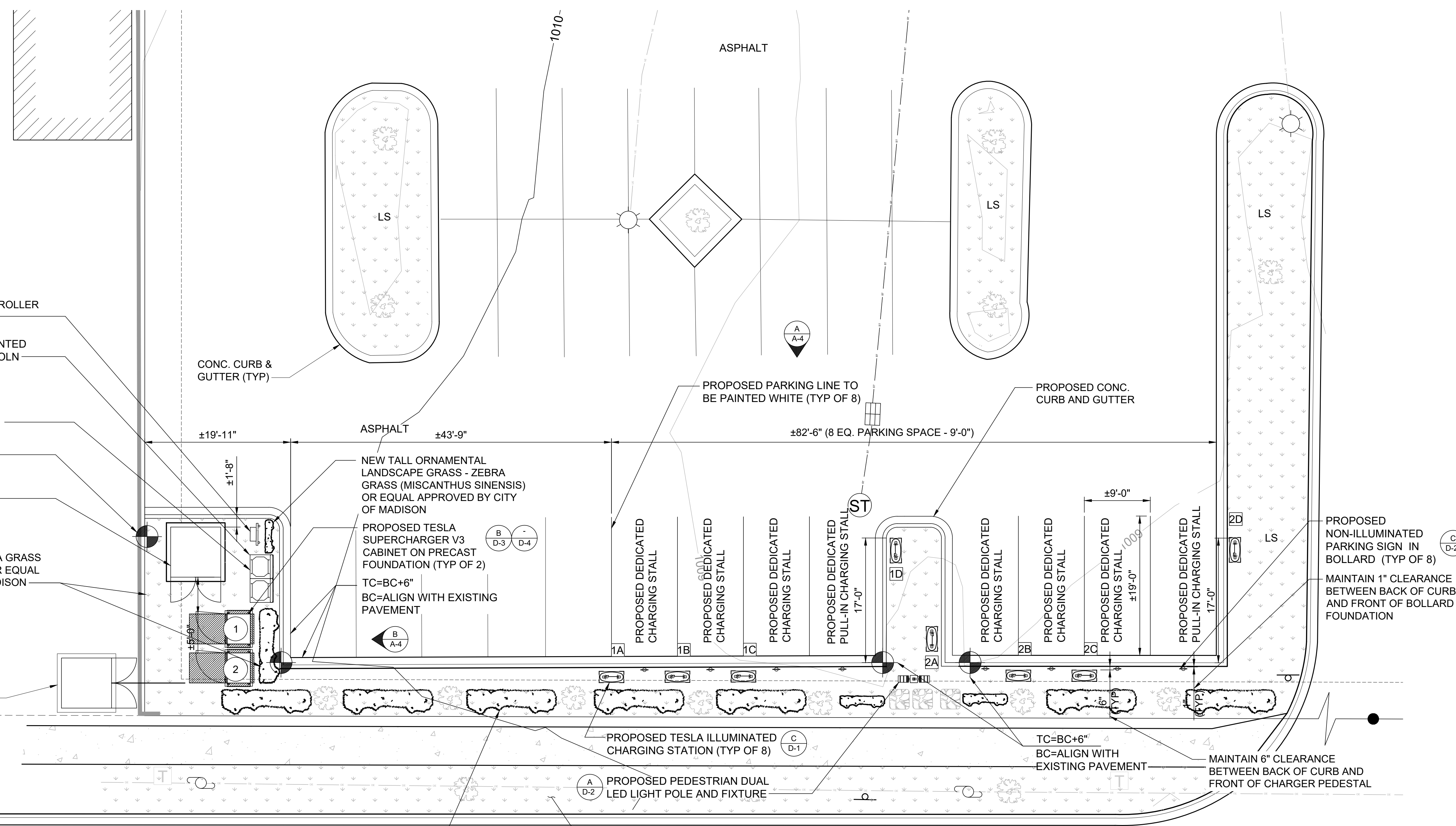
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(TRT#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
PROPOSED SITE PLAN

SHEET NUMBER
A-3



- PROPOSED MASTER CONTROLLER MOUNTED ON H-FRAME
- METER PAN WILL BE MOUNTED TO SWITCHGEAR BY LINCOLN
- PROPOSED LINCOLN SWITCHGEAR ASSEMBLY
- TC=BC+6"
BC=ALIGN WITH EXISTING PAVEMENT
- NEW TRANSFORMER
- NEW TALL ORNAMENTAL LANDSCAPE GRASS - ZEBRA GRASS (MISCANTHUS SINENSIS) OR EQUAL APPROVED BY CITY OF MADISON
- EXISTING TRANSFORMER

CONC. CURB & GUTTER (TYP)

PROPOSED PARKING LINE TO BE PAINTED WHITE (TYP OF 8)

PROPOSED CONC. CURB AND GUTTER

NEW TALL ORNAMENTAL LANDSCAPE GRASS - ZEBRA GRASS (MISCANTHUS SINENSIS) OR EQUAL APPROVED BY CITY OF MADISON

PROPOSED TESLA SUPERCHARGER V3 CABINET ON PRECAST FOUNDATION (TYP OF 2)
TC=BC+6"
BC=ALIGN WITH EXISTING PAVEMENT

PROPOSED TESLA ILLUMINATED CHARGING STATION (TYP OF 8)

TC=BC+6"
BC=ALIGN WITH EXISTING PAVEMENT

MAINTAIN 6" CLEARANCE BETWEEN BACK OF CURB AND FRONT OF CHARGER PEDESTAL

NEW TALL ORNAMENTAL LANDSCAPE GRASS - ZEBRA GRASS (MISCANTHUS SINENSIS) OR EQUAL APPROVED BY CITY OF MADISON (TYP)

EXISTING GRASS (PROTECT DURING CONSTRUCTION)

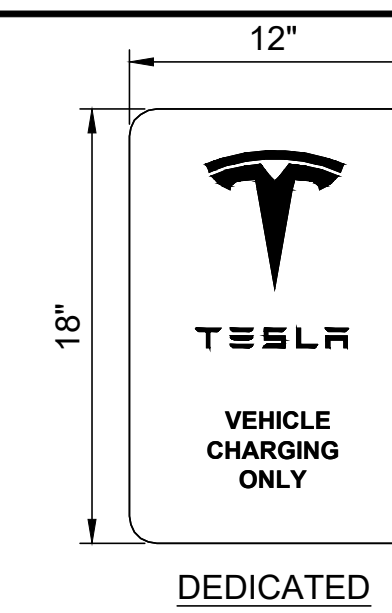
ODANA ROAD

PROPOSED SITE PLAN

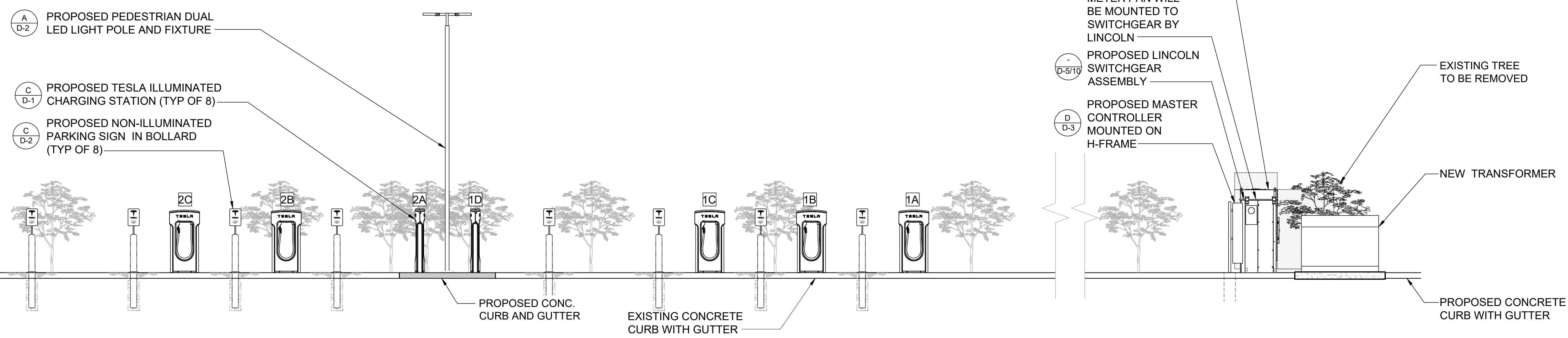
SCALE: 11"x17" - 1/16"=1'-0"
22"x34" - 1/8"=1'-0"

NOTES

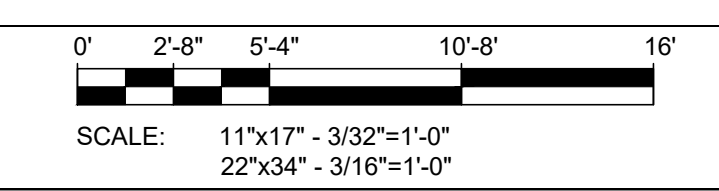
1. BOTTOM OF LOWEST SIGN TO BE INSTALLED 54" ABOVE GRADE.
2. SEE SHEET GN-3 FOR SIGN POST NOTES.
3. ADDITIONAL PARKING SIGNS TO BE INSTALLED 2" ABOVE TOP OF PREVIOUS SIGN.
4. DO NOT ANCHOR SIGNAGE OR PENETRATE SIDE OF SWITCHGEAR ASSEMBLY.
5. SIGNAGE TO BE REFLECTIVE VINYL.
6. SIGNAGE SHALL BE PRINTED WITH RED LETTERING ON A WHITE BACKGROUND.
7. ALL TEXT SHALL BE CAPITAL LETTERS. LABEL FONT SHALL BE ARIAL (OR SIMILAR) AND IS NOT TO BE BOLD.
8. CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND SHALL BE 70% MINIMUM AND HAVE A NON GLARE FINISH.



| CHARGING POST SIGNAGE SCHEDULE | | |
|--------------------------------|-------------|--------------------|
| SUPERCHARGER | CHARGE POST | SIGN(S) TO INSTALL |
| ① | 1A | DEDICATED |
| | 1B | DEDICATED |
| | 1C | DEDICATED |
| | 1D | DEDICATED |
| ② | 2A | DEDICATED |
| | 2B | DEDICATED |
| | 2C | DEDICATED |
| | 2D | DEDICATED |



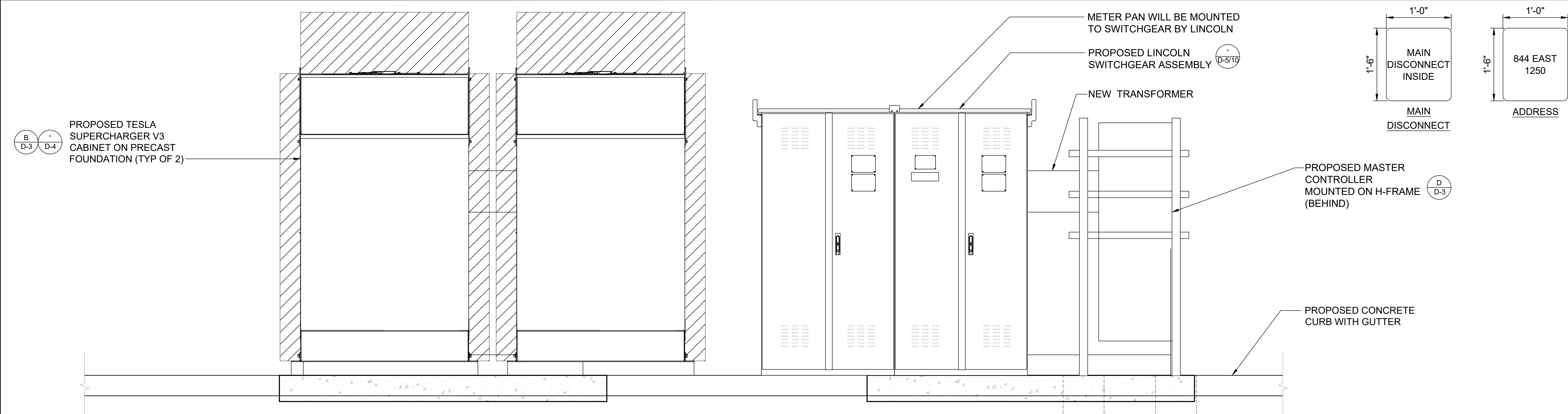
SITE ELEVATION



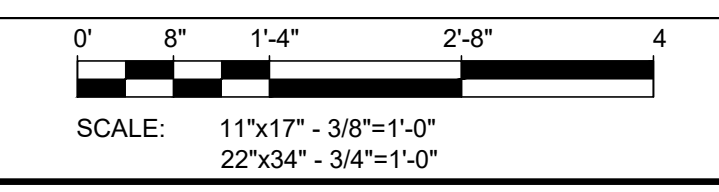
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CHECKED BY: PL

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| A | 01/06/2020 | CD50 |



SITE ELEVATION



B

SITE NAME: MADISON, WI
(TRT#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
SITE ELEVATION

SHEET NUMBER
A-4

TESLA

3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 681-5000

LAB

49030 Pontiac Trail, Ste 400
Wixom, Michigan 48393
PHONE: 248-705-9212

WISCONSIN ARCHITECT

PETER P. LICHOMSKI
A-11723-5
WEST BLOOMFIELD MI

Peter P. Lichomski

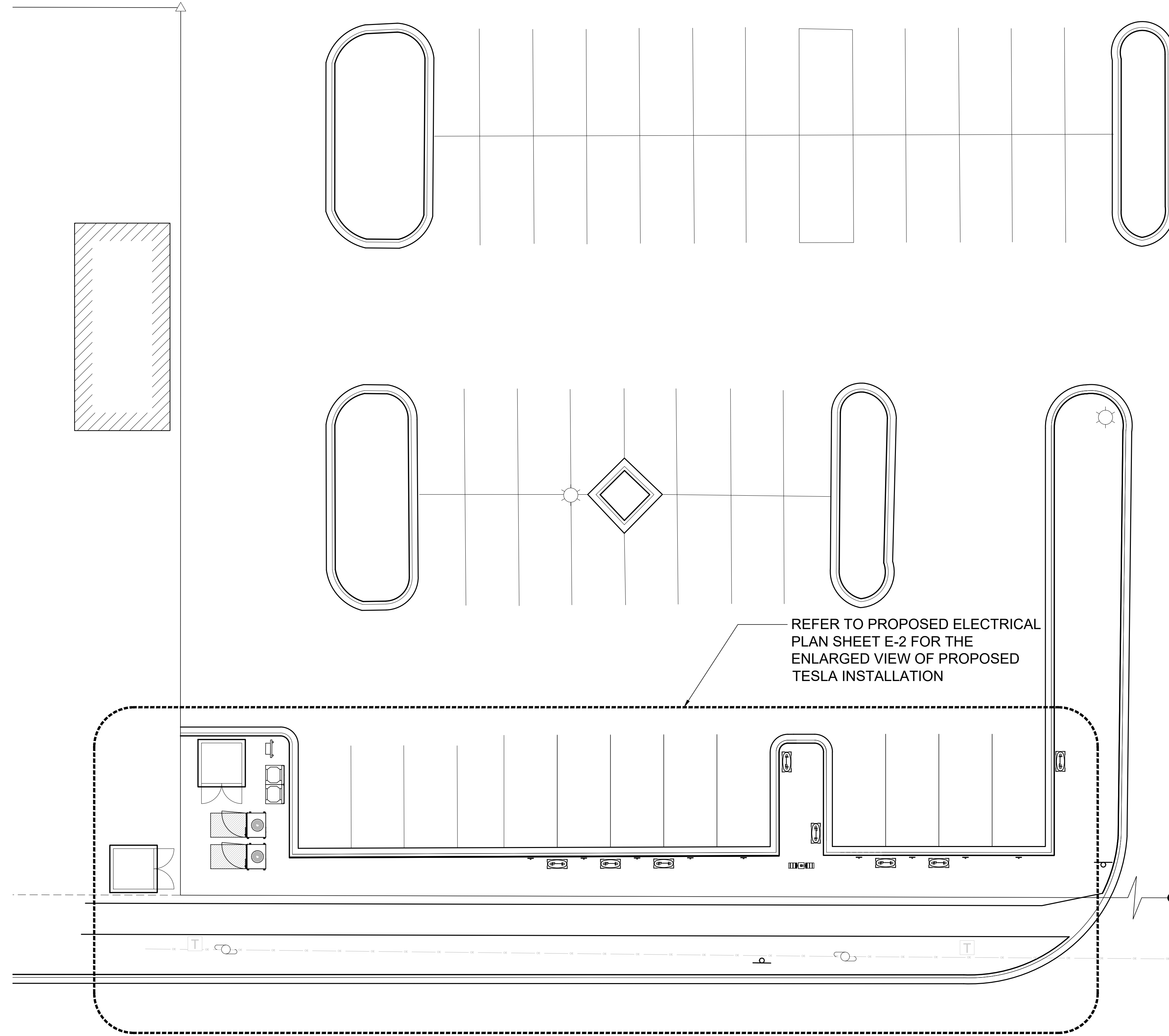
CONSISTENT WITH APPLICABLE LICENSING LAWS THIS SEAL CERTIFIES ONLY THAT THE ARCHITECTURAL DESIGN WORK WAS PREPARED EITHER PERSONALLY BY ME OR UNDER MY IMMEDIATE AND DIRECT SUPERVISION AND CONTROL. THE SEAL IS NOT INTENDED TO AND DOES NOT IN FACT ATTEST TO ANY ENGINEERING WORK THAT WOULD FALL OUTSIDE THE SCOPE OF WHAT THE APPLICABLE LICENSING LAWS WOULD PERMIT AS THE PRACTICE OF ARCHITECTURE.

NOTES:

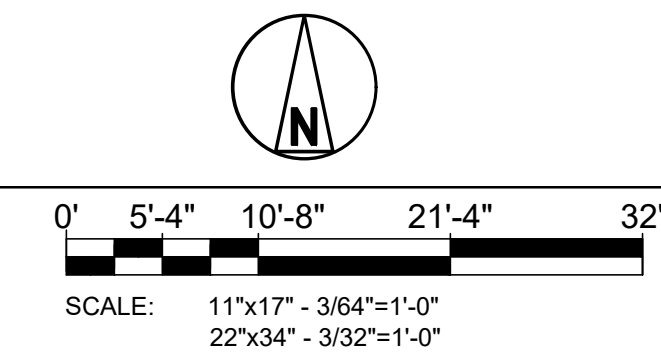
1. THE UTILITY DESIGN DETAILS SUMMARIZED ON THIS SHEET ARE FOR PROPERTY OWNER REVIEW. THE CONTRACTOR SHALL REFERENCE THE UTILITY DESIGN PACKAGE (UDP), PROVIDED WITH THE "ISSUED FOR CONSTRUCTION" DRAWINGS FOR BIDDING. THE CONTRACTOR SHALL INSTALL THE UTILITY RELATED SCOPE OF WORK PER UTILITY CONSTRUCTION SPECIFICATION REQUIREMENTS.
2. UTILITY EQUIPMENT INSTALLATIONS AND PREP WORK AND TERMINATION OF SERVICE CONDUCTORS SHALL BE COORDINATED WITH THE APPROPRIATE UTILITY ENGINEER AT TIME OF PRECONSTRUCTION MEETING TO ENSURE ACCURACY OF INSTALLATIONS.
3. TRANSFORMER BOLLARD PROTECTION TO BE INSTALLED PER UTILITY SPECIFICATION. ADDITIONAL BOLLARD PROTECTION MAY BE REQUIRED AT THE DISCRETION OF THE UTILITY FIELD INSPECTION PERSONNEL.

| ELECTRICAL SCOPE OF WORK RESPONSIBILITIES | | |
|---|------------|---------------|
| SCOPE | BY UTILITY | BY CONTRACTOR |
| PROVIDE PRIMARY SIDE TRENCHING | X | |
| PROVIDE & INSTALL PRIMARY SIDE CONDUITS W/ PULLWIRE | X | |
| PROVIDE & INSTALL PRIMARY SIDE CONDUCTORS | X | |
| PROVIDE & INSTALL UTILITY TRANSFORMER PAD | | X |
| PROVIDE UTILITY TRANSFORMER | X | |
| INSTALL UTILITY TRANSFORMER | X | |
| INSTALL CONNECTIONS AT UTILITY TRANSFORMER (PRIMARY) | X | |
| INSTALL CONNECTIONS AT UTILITY TRANSFORMER (SECONDARY) | | X |
| PROVIDE METER PEDESTAL | | X |
| INSTALL METER PEDESTAL | | X |
| PROVIDE METER BASE | X | |
| INSTALL METER BASE | | X |
| PROVIDE METER | X | |
| INSTALL METER | X | |
| PROVIDE CTs | X | |
| INSTALL CTs | X | |
| PROVIDE SECONDARY SIDE TRENCHING | | X |
| PROVIDE & INSTALL SECONDARY SIDE CONDUITS W/ PULLWIRE | | X |
| PROVIDE & INSTALL SECONDARY SIDE CONDUCTORS | | X |
| PROVIDE ROAD CUTS / ROAD BORES FOR UTILITY WORK | X | |
| PROVIDE & INSTALL PAVEMENT REPLACEMENT FOR UTILITY WORK | X | |

NOTE: SCOPE SHOWN ABOVE WAS PROVIDED BY AEP. FIELD VERIFY PRIOR TO CONSTRUCTION.



UTILITY PLAN



3500 DEER CREEK RD
PALO ALTO, CA 94304
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49030 Pontiac Trail, Ste 400
Wixom, Michigan 48393
PHONE: 248-705-9212

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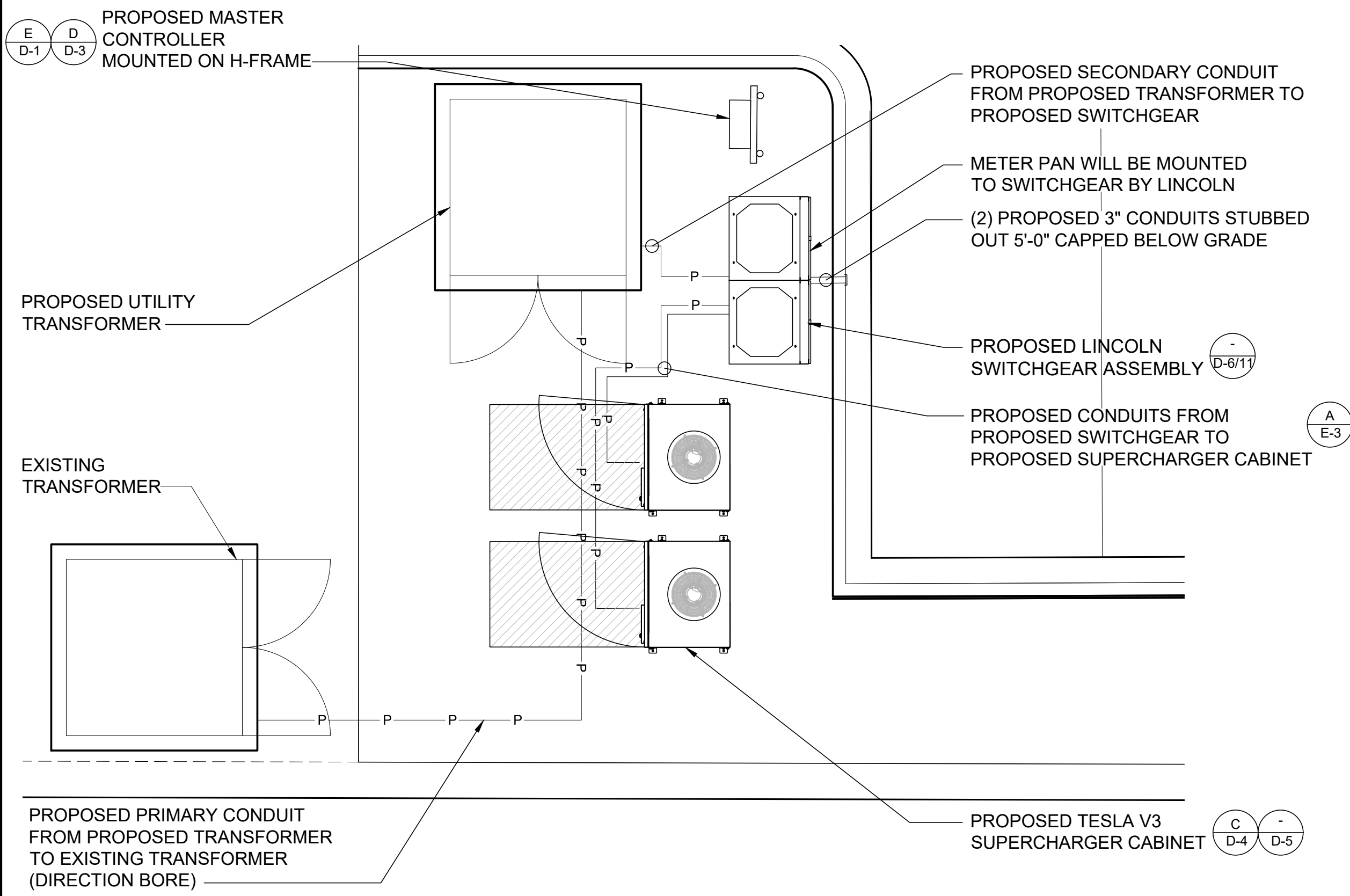
SITE NAME: MADISON, WI
(TRT#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE

UTILITY PLAN

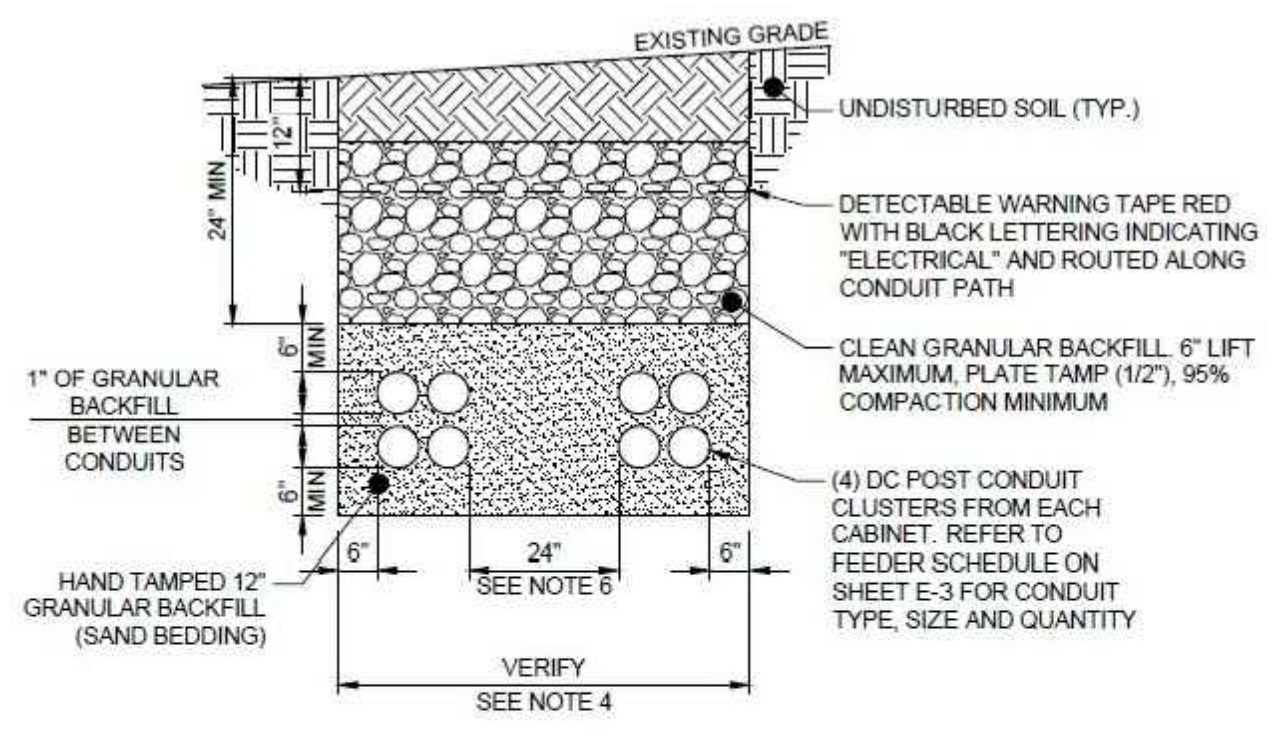
SHEET NUMBER

E-1



ENLARGED ELECTRICAL PLAN

SCALE: 11"x17" - 1/8"=1'-0"
22"x34" - 1/4"=1'-0"

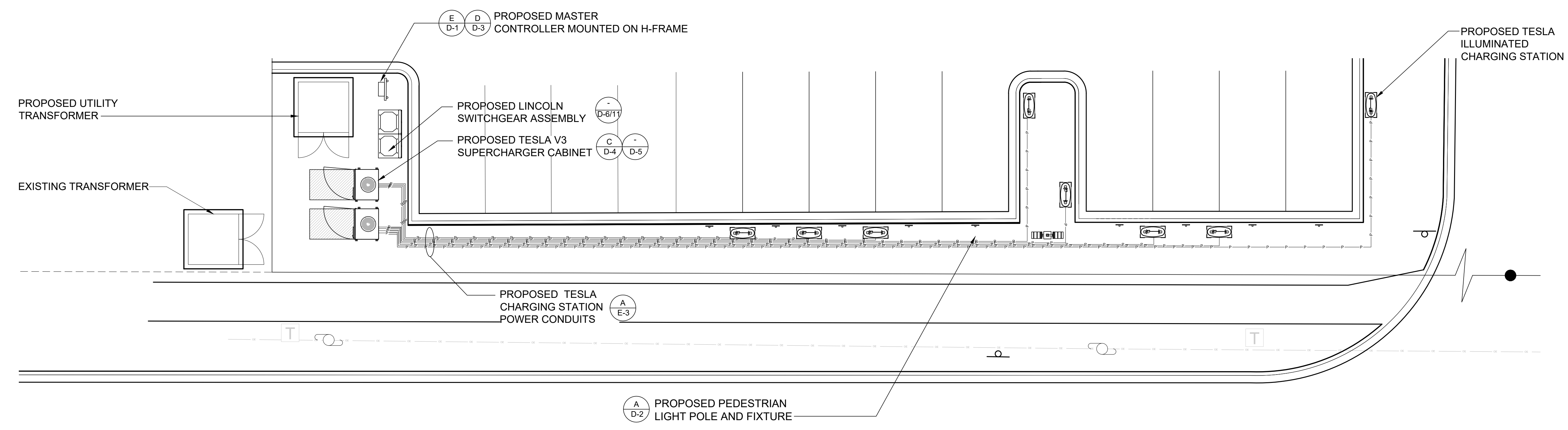


- NOTES:
1. ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF.
 2. ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRECONSTRUCTION CONDITIONS OR BETTER.
 3. CONTRACTOR SHALL INSTALL CONDUITS BELOW LOCAL FROST LINE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH CONTACT ENGINEER LISTED ON SHEET T-1.
 4. VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING ON SHEET E-2 FOR ROUTING.
 5. DC POST CONDUIT DUCT BANK DESIGN BY TESLA BASED ON RHO90 SOIL TYPE & BACKFILL. CONTRACTOR CAN REDUCE SPACING AS REQUIRED BASED ON TESLA THERMAL MODELING CALCULATIONS. DC CONDUIT MAY BE ENCASED IN SLURRY TO DECREASE REQUIRED SPACING.

NOTES:

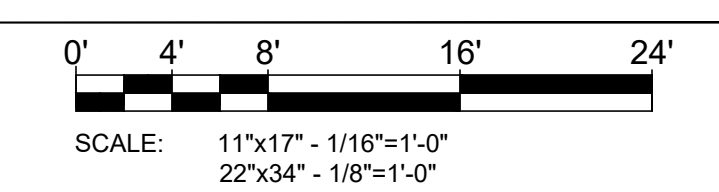
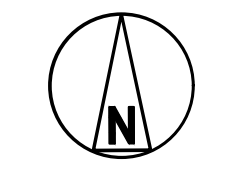
1. BIDDING CONTRACTOR TO VERIFY DEPTHS AND LENGTHS IN FIELD.
2. THE EXACT ROUTING PATH AND CONDUCTOR RUN LENGTHS SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON PHYSICAL MEASUREMENTS. CONTRACTOR TO ORDER CONDUCTOR BASED ON FIELD MEASUREMENTS (MUST BE APPROVED BY TESLA INSTALLATION MANAGER).
3. ALL ELECTRICAL WORK AND RELATED ACTIVITIES PERFORMED ON-SITE SHALL BE DONE IN ACCORDANCE WITH NATIONAL ELECTRIC CODE (NEC) STANDARDS BEING ENFORCED BY ALL APPLICABLE JURISDICTIONAL REQUIREMENTS AT THE TIME OF CONSTRUCTION.
4. THE MAXIMUM RUN LENGTH BETWEEN SUPERCHARGER CABINET AND CHARGING POST, INCLUDING BURIED DEPTH IS NOT TO EXCEED 330'.
5. SEE SHEET E-3 FOR CONDUIT AND WIRE SIZES.

| SITE ID: MADISON, WI: S WHITNEY WAY | | MODEL #: LINCOLN | WIRE: 4 | | |
|-------------------------------------|----------------|-----------------------|-----------------------------|--------------|-------------------|
| VOLTAGE: 277/480V | | BUSS RATING: 1200 AMP | GND BAR: YES | | |
| PHASE: 3Ø | | NEU BAR: YES | N TO G BOND: YES; SEE A/E-3 | | |
| SERVICE LOAD (KVA) | USAGE FACTOR | BREAKER STATUS | BREAKER POLES | BREAKER AMPS | LOAD DESCRIPTION |
| | | ON | 3 | 1200 | MAIN BREAKER |
| 433 | 1.0 | ON | 3 | 600 | V3 SUPERCHARGER |
| 433 | 1.0 | ON | 3 | 600 | V3 SUPERCHARGER |
| 0.5 | 1.0 | ON | 2 | 20 | MASTER CONTROLLER |
| 0.131 | 1.25 | ON | 1 | 15 | POLE LIGHT |
| 866.63 | CONNECTED KVA | | | | |
| 1044.13 | CONNECTED AMPS | | | | |
| 1044.17 | DEMAND AMPS | | | | |



CAUTION - ALL TRADES USE EXTREME CAUTION IN AREA OF EXISTING UTILITIES - HAND DIG - USE ELECTRONIC DETECTION PRIOR TO DIGGING

REFERENCE SHEET E-1 FOR A SUMMARY OF THE UTILITY RELATED CONSTRUCTION RESPONSIBILITIES AND DESIGN DETAILS



ELECTRICAL PLAN

TESLA

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LAB

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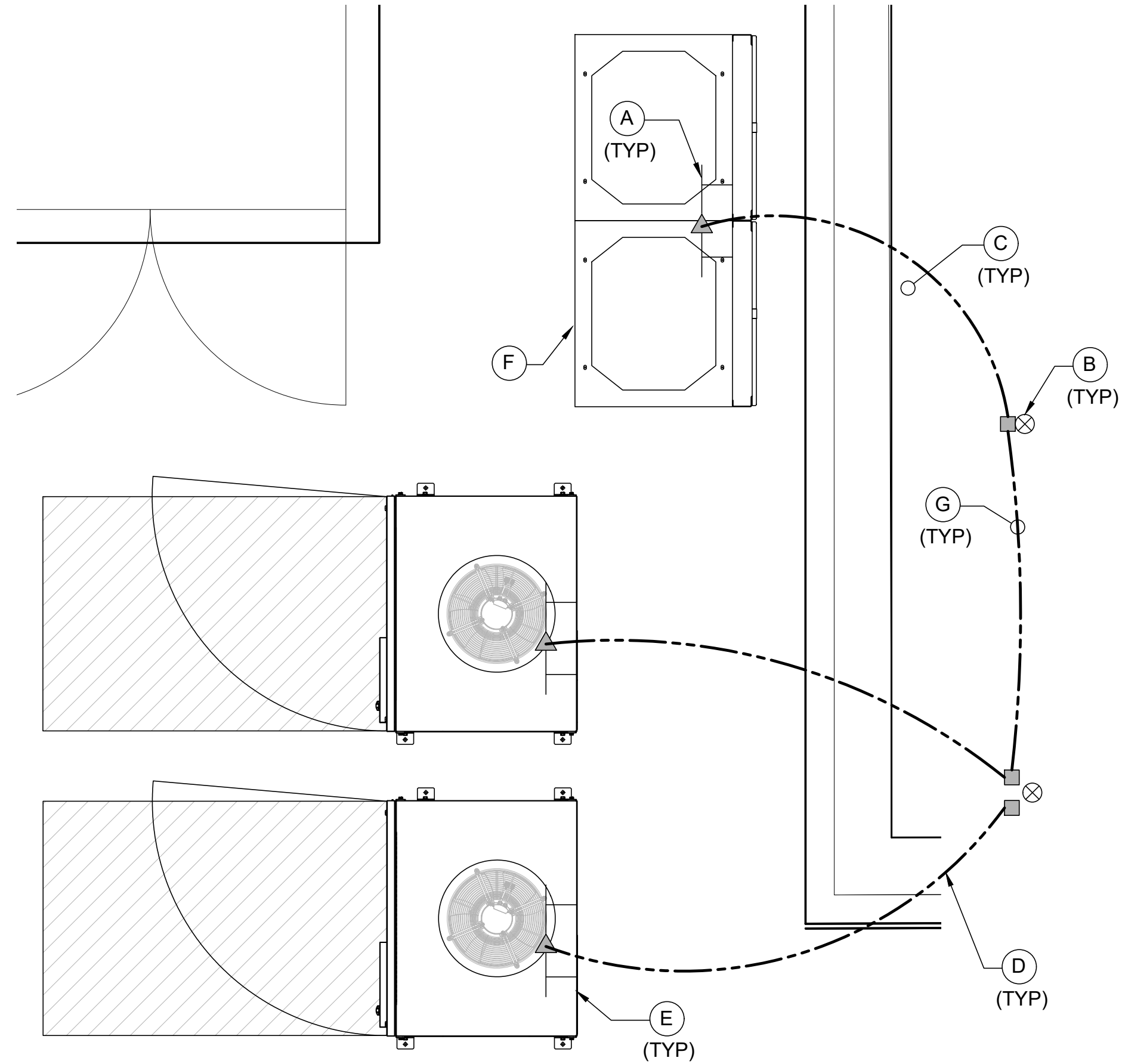
SITE NAME: MADISON, WI (TRT#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
ELECTRICAL PLAN & PANEL SCHEDULE 'MDP'

SHEET NUMBER
E-2

GROUNDING LEGEND

- EXOTHERMIC WELD (2) TWO, #6 AWG BARE TINNED SOLID COPPER CONDUCTORS TO GROUND BAR/LUG. ROUTE CONDUCTORS TO BURIED GROUND RING AND PROVIDE PARALLEL EXOTHERMIC WELD.
- ALL GROUND BARS SHALL BE STAMPED IN TO THE METAL "IF STOLEN DO NOT RECYCLE."
- ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND CONDUCTOR DOWN TO GROUND BUS.
- NUT AND WASHER SHALL BE PLACED ON THE FRONT SIDE OF THE GROUND BAR AND BOLTED ON THE BACK SIDE. INSTALL BLACK HEAT-SHRINKING TUBE, 600 VOLT INSULATION, ON ALL GROUND TERMINATIONS. THE INTENT IS TO WEATHERPROOF THE COMPRESSION CONNECTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ADDITIONAL GROUND BAR AS REQUIRED, PROVIDING 50% SPARE CONNECTION POINTS.
- ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).
- TESLA CHARGERS HAVE INTERNAL HIGH IMPEDANCE GROUND FAULT PROTECTION (10MΩ).
- EMC - ELECTROMAGNETIC COMPATIBILITY.
- ALL GROUNDING HARDWARE SUPPLIED AND INSTALLED BY CONTRACTOR.

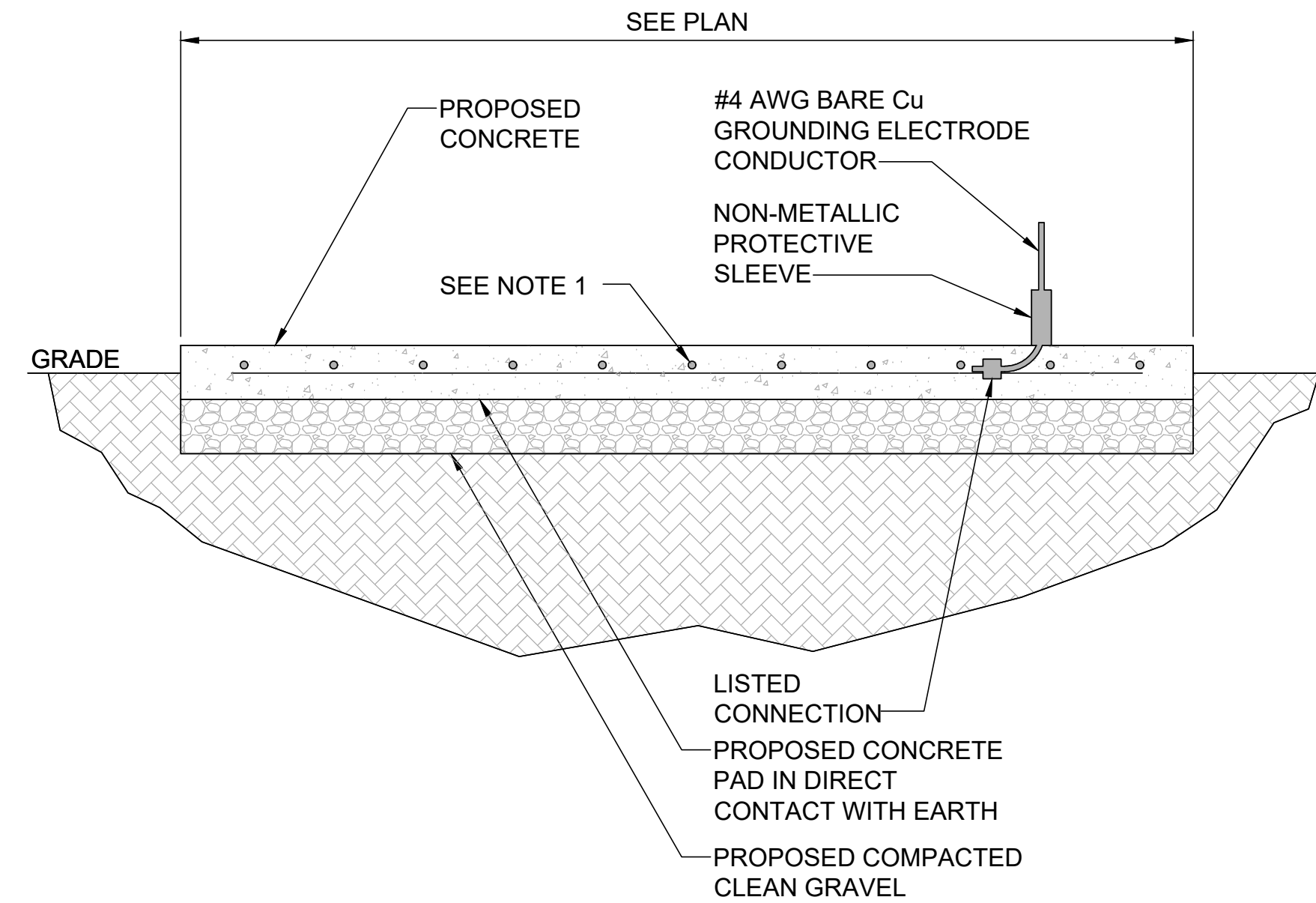


GROUNDING LEGEND

- (A) GROUND BAR/LUG WITHIN PROPOSED EQUIPMENT
 - (B) PROPOSED 5/8"x8'-0" GROUND ROD, SEE DETAIL C THIS SHEET
 - (C) PROPOSED SERVICE GROUND, SEE DETAIL C THIS SHEET.
 - (D) PROPOSED CHARGING CABINET GROUND FOR EMC.
 - (E) PROPOSED CHARGING CABINET SEE PLAN FOR EXACT QUANTITY.
 - (F) PROPOSED SWITCHGEAR. SEE PLAN FOR EXACT SIZE AND CONFIGURATION.
 - (G) #6 SOLID TINNED COPPER
- PROPOSED GROUND CONDUCTOR
 - CADWELD CONNECTION (EXOTHERMIC WELD)
 - ▲ MECHANICAL CONNECTION
 - ⊗ GROUND ROD

NOTE

- REBAR BONDED TOGETHER WITH STEEL TIE WIRES OR EXOTHERMIC WELDING



GROUNDING PLAN

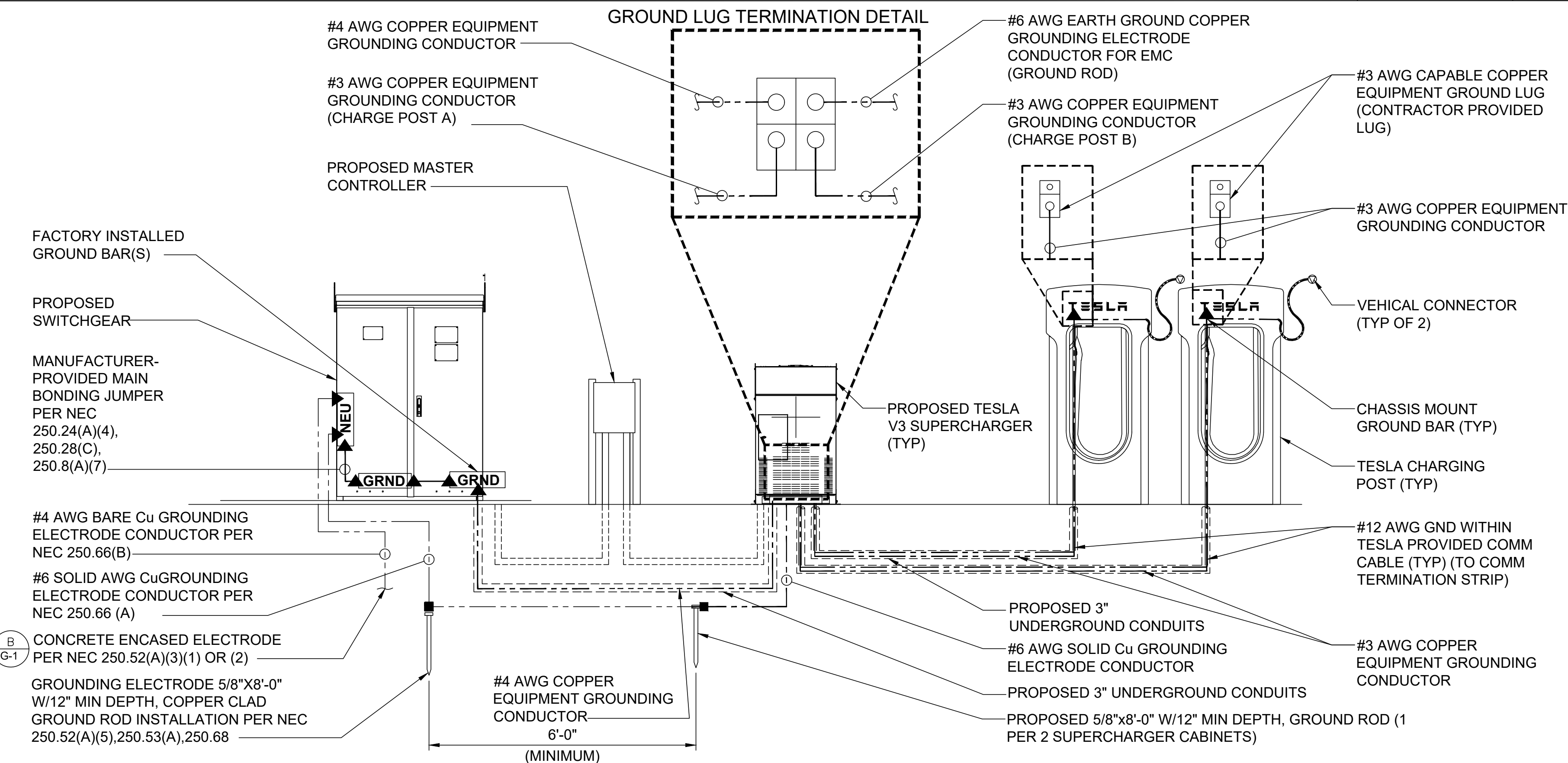
NO SCALE

A

CONCRETE ENCASED ELECTRODE DETAIL

NO SCALE

B



TYPICAL GROUNDING SCHEMATIC

NO SCALE

C

DETAIL NOT USED

NO SCALE

D



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PALO ALTO, CA 94304
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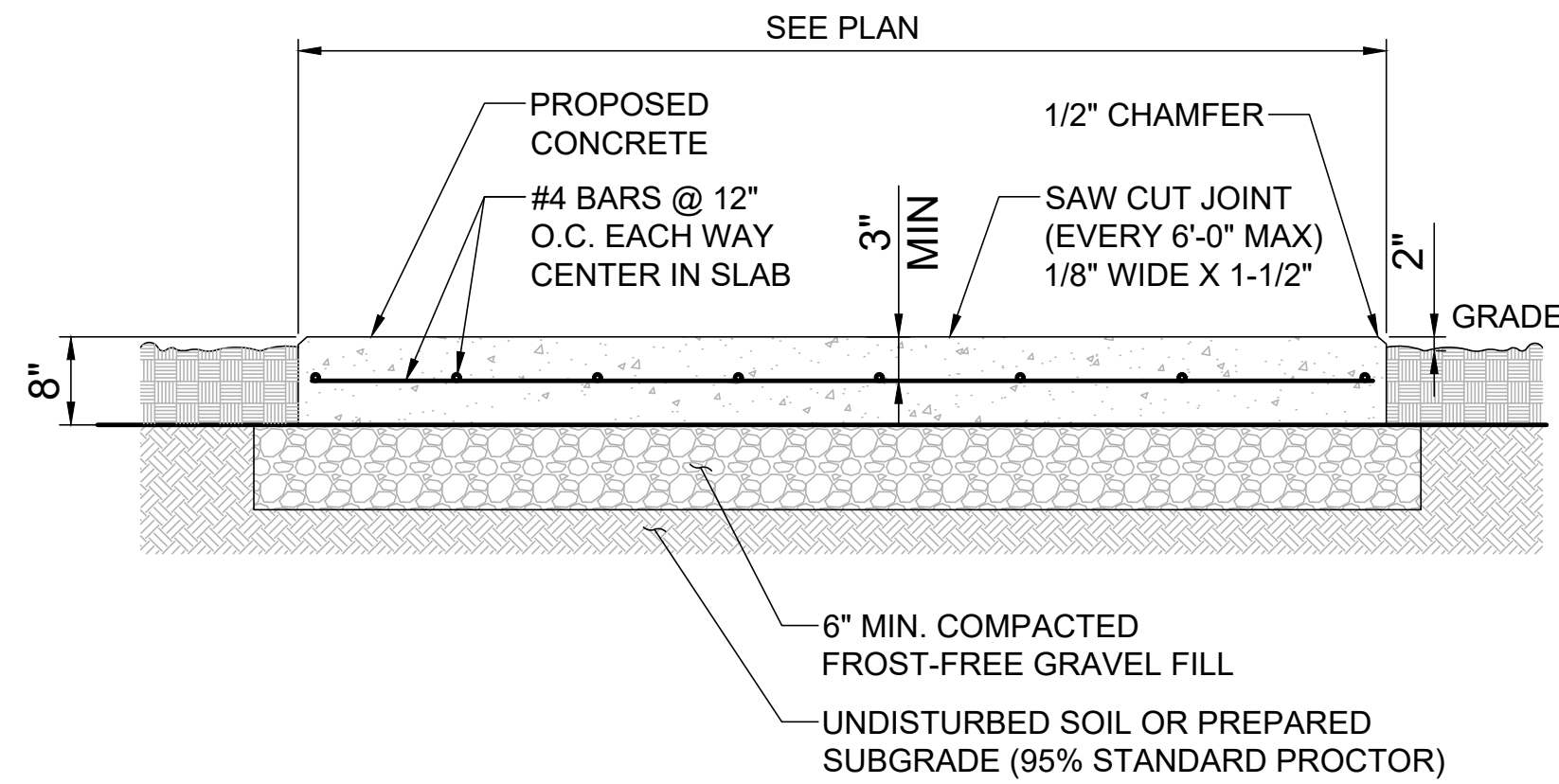
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SITE NAME: MADISON, WI
(TRT#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1



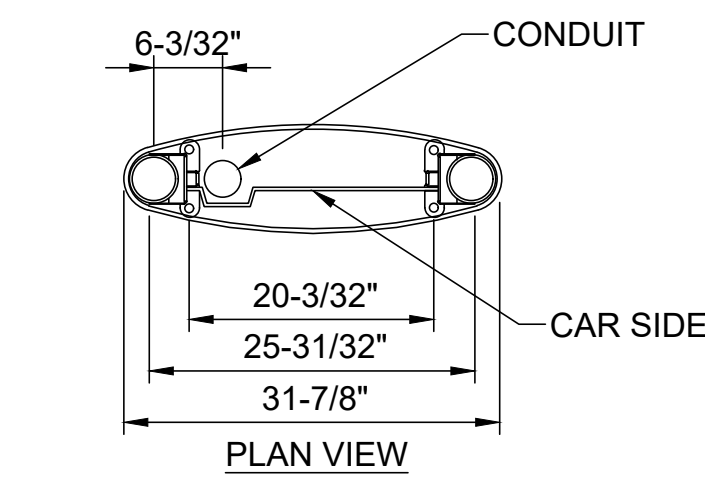
CONCRETE PAD NOTES & CONCRETE SPECIFICATIONS:

- FOUNDATION AREA SHALL BE EXCAVATED TO THE DEPTH AND DIMENSIONS SHOWN ON THE PLANS OTHER UNSUITABLE MATERIAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFF-SITE. THE SUBGRADE SHALL BE ROLLED WITH A 1-TON, VIBRATORY, WALK-BEHIND ROLLER AT A SPEED OF LESS THAN 2 FPS, 6 PASSES MINIMUM, TO PROVIDE UNYIELDING SURFACE.
- UNDERCUT SOFT OR "WEAVING" AREAS A MINIMUM OF 12 INCHES DEEP. BACKFILL UNDERCUT AREA WITH FILL MEETING THE SPECIFICATIONS OF STRUCTURAL FILL.
- CONCRETE TO HAVE A MINIMUM 28 DAYS COMPRESSIVE STRENGTH (f_c)=4000PSI.
- REINFORCING BAR TO BE ASTM A615 GRADE 60.
- ALL REINFORCING TO HAVE MINIMUM CONCRETE COVER PER ACI SPECIFICATION
- ALL CONCRETE MATERIALS AND WORKMANSHIP SHALL CONFORM TO ACI 318-14 AND APPLICABLE STATE BUILDING CODE.
- PAD SHALL BE A MINIMUM OF 8" IN THICKNESS. THICKNESS OF PAD SHALL INCREASE AS THE PERIMETER SOIL SURFACE SLOPES TO MAINTAIN A MINIMUM OF 6" OF SOIL COVER TO THE BOTTOM OF THE PAD.

TYPICAL CONCRETE PAD DETAIL

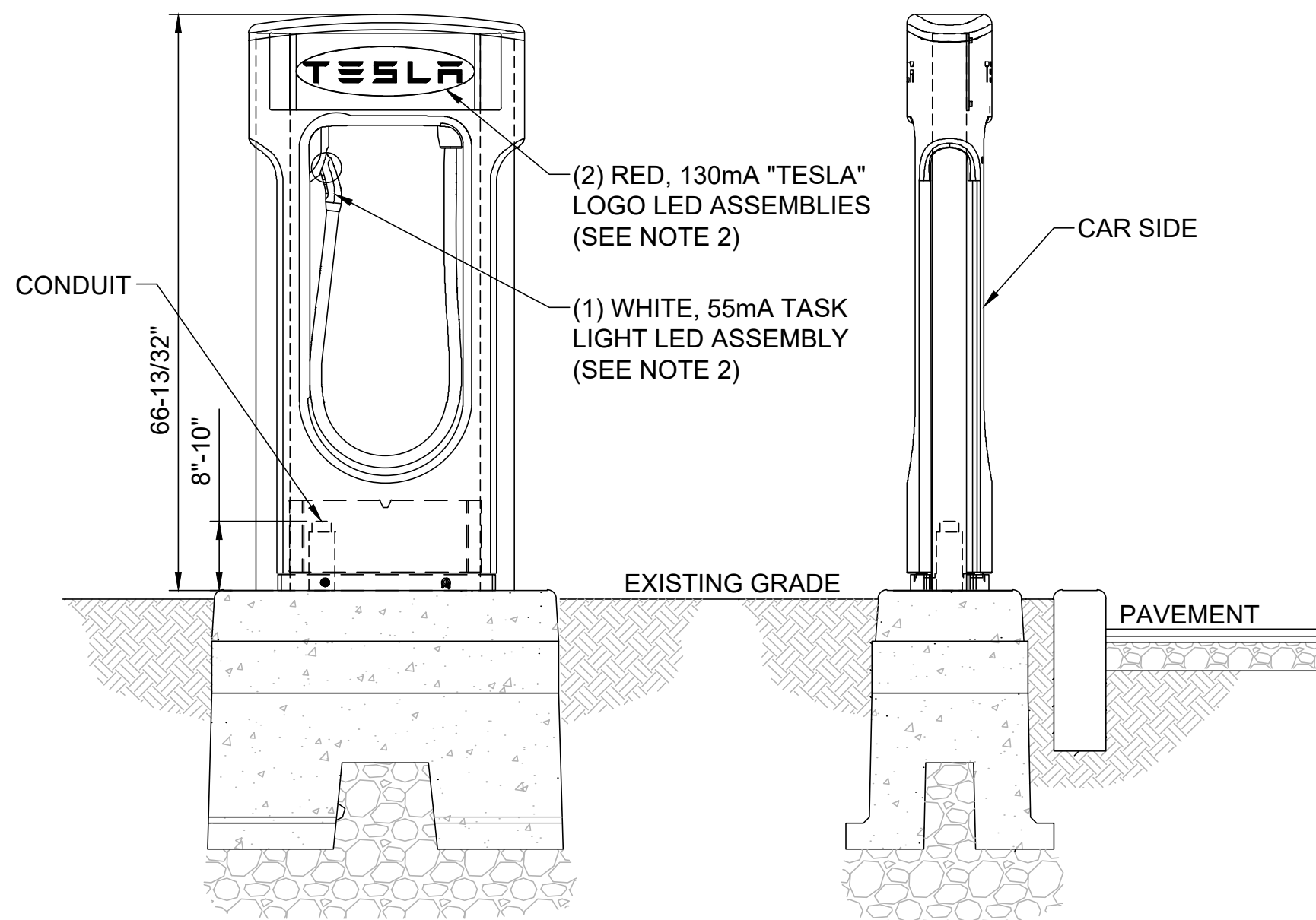
NO SCALE

A



NOTES

- BOLLARD MUST BE FROM TESLA AND INCLUDE WELDED ON FIXTURE ATTACHMENT PADS.
- THE 4.33W, 315mA COMBINED TESLA LOGO AND TASK LIGHT LED ASSEMBLIES DRAWS POWER FROM THE PROPOSED SUPERCHARGER.
- CONTRACTOR TO FIT REAR SKIN DURING INSTALLATION AND REMOVE REAR SKIN UNTIL TESLA INSPECTION IS COMPLETED.

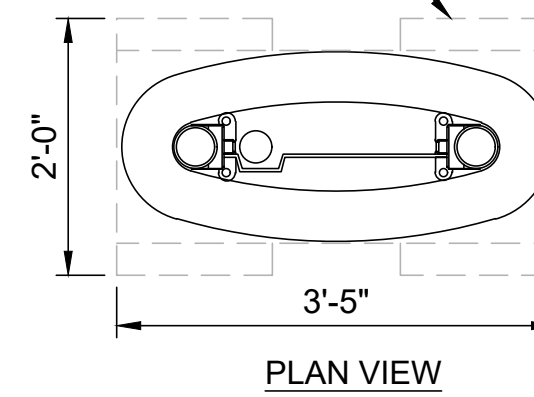


CHARGING POST ELEVATION

NO SCALE

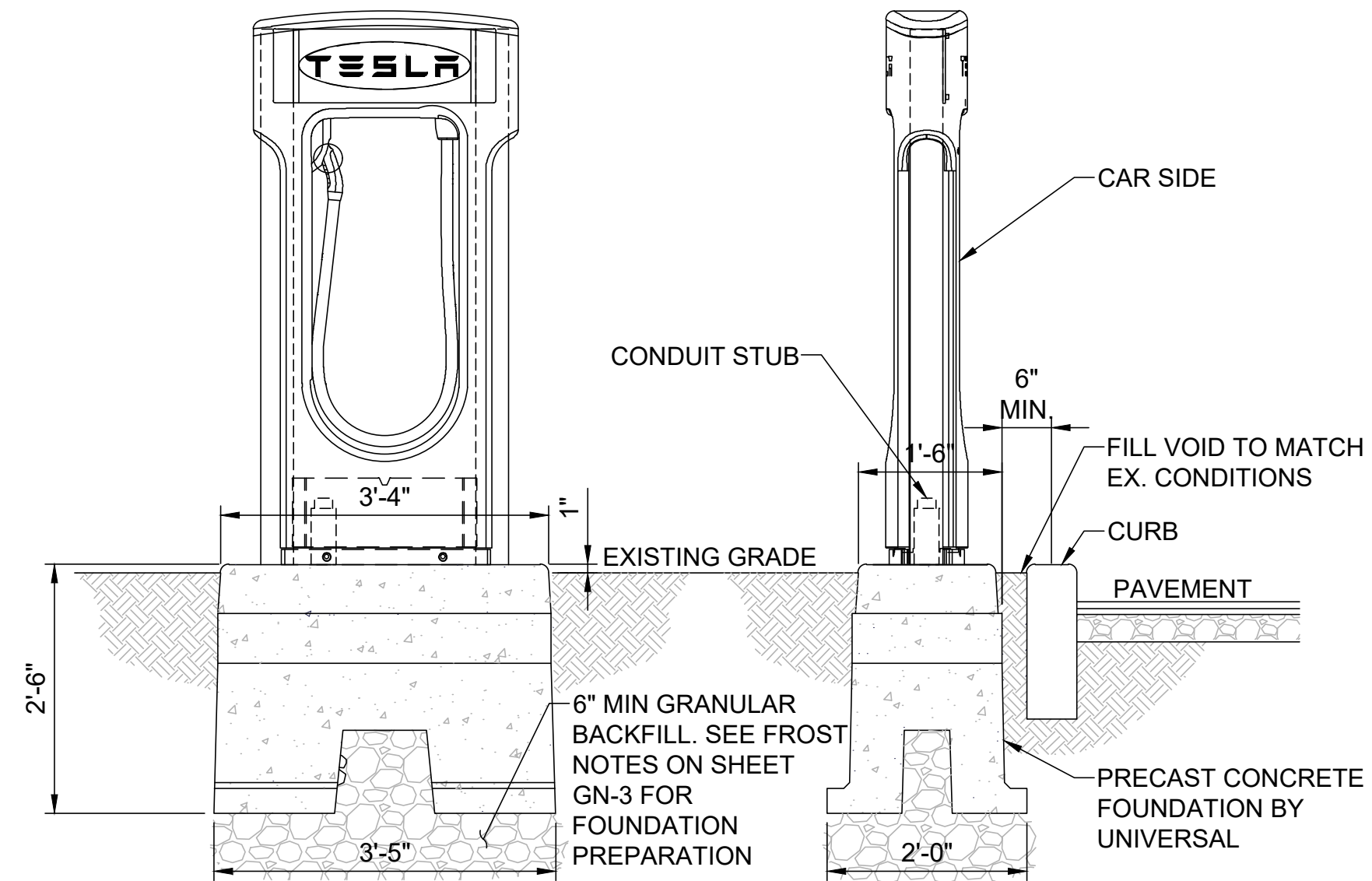
B

PRECAST CONCRETE FOUNDATION BY UNIVERSAL



NOTES

- PRECAST CONCRETE FOUNDATION DESIGNED AND ENGINEERED BY UNIVERSAL.
- PRECAST CONCRETE FOUNDATION SUPPLIED BY TESLA AND INSTALLED BY CONTRACTOR.
- CHARGING POST SHALL BE ANCHORED TO PRE-INSTALLED THREADED INSERTS ON PRECAST FOUNDATION WITH HARDWARE SUPPLIED BY TESLA AND INSTALLED BY CONTRACTOR.
- PRECAST CONCRETE FOUNDATION DIMENSIONS SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL COORDINATE WITH TESLA FOR EXACT DIMENSIONS AND SPECIFICATIONS.
- SEE FROST NOTES ON SHEET GN-3 FOR FOUNDATION PREPARATION.
- CONTRACTOR TO PROTECT EXISTING CURB AND PAVEMENT DURING INSTALLATION OF CONCRETE FOUNDATION. REPAIR OR REPLACE AS REQUIRED.



CHARGING POST CONCRETE FOUNDATION

NO SCALE

C

NOTES

- CONTRACTOR TO PROVIDE CAST IN PLACE OR EPOXY METHOD BASED ON FIELD MEASUREMENTS AND JURISDICTIONAL REQUIREMENTS. (4) 5/8" DIAMETER THREADED ROD STAINLESS STEEL OR HOT DIPPED GALVANIZED, 4" MINIMUM EFFECTIVE EMBEDMENT, 2" MINIMUM EXPOSED ABOVE CONCRETE.

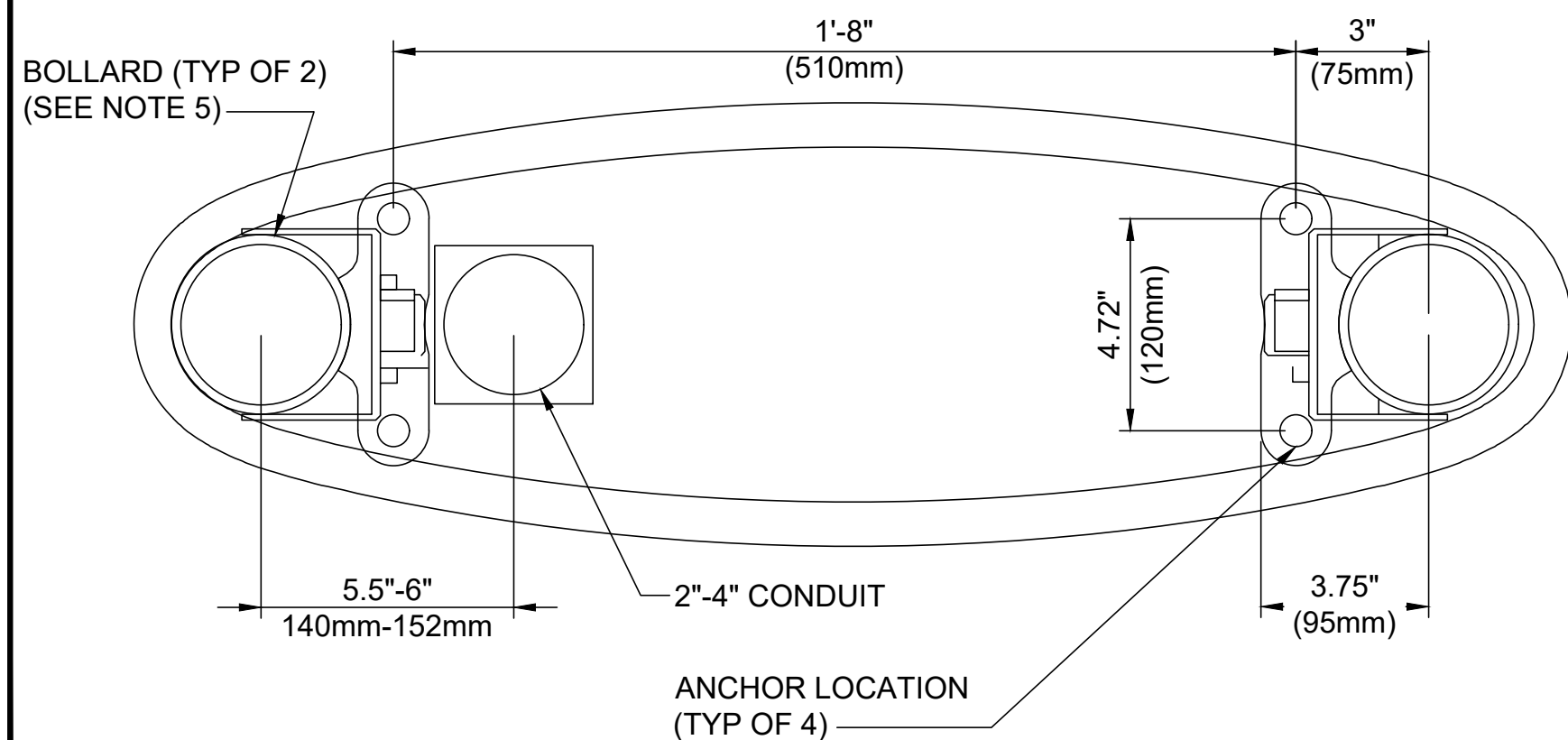
CAST IN PLACE METHOD:

ASTM F1554, GR. 36 HDG OR ENGINEERING APPROVED EQUAL ANCHORS USING TESLA-PROVIDED JIG
ASTM FASTENERS: (1) A563 GR. A NUT AND (1) F436 TYPE 3 WASHER ABOVE BOLLARD FLANGE, (1) A563 GR. A NUT AND (1) F436 TYPE 3 WASHER AT THE BOTTOM OF THE THREADED ROD.

EPOXY METHOD:

ASTM F593 SS OR ENGINEERING APPROVED EQUAL ANCHORS SET WITH RED HEAD EPCON C6+ EPOXY IN DRILLED HOLES LOCATED USING TESLA-PROVIDED JIG
ASTM FASTENERS: (1) F594 NUT AND (1) SS304 OR SS316 WASHER ABOVE BOLLARD FLANGE.

- HAND TROWEL ABOVE GRADE ELLIPTICAL FOOTING EDGES TO MATCH SHAPE SHOWN IN DETAIL.
- CAST ENTIRE FOOTING IN ONE MONOLITHIC POUR.
- BOLLARD MUST BE FROM TESLA AND INCLUDE WELDED ATTACHMENT PADS.



TYPICAL BOLTDOWN DETAIL

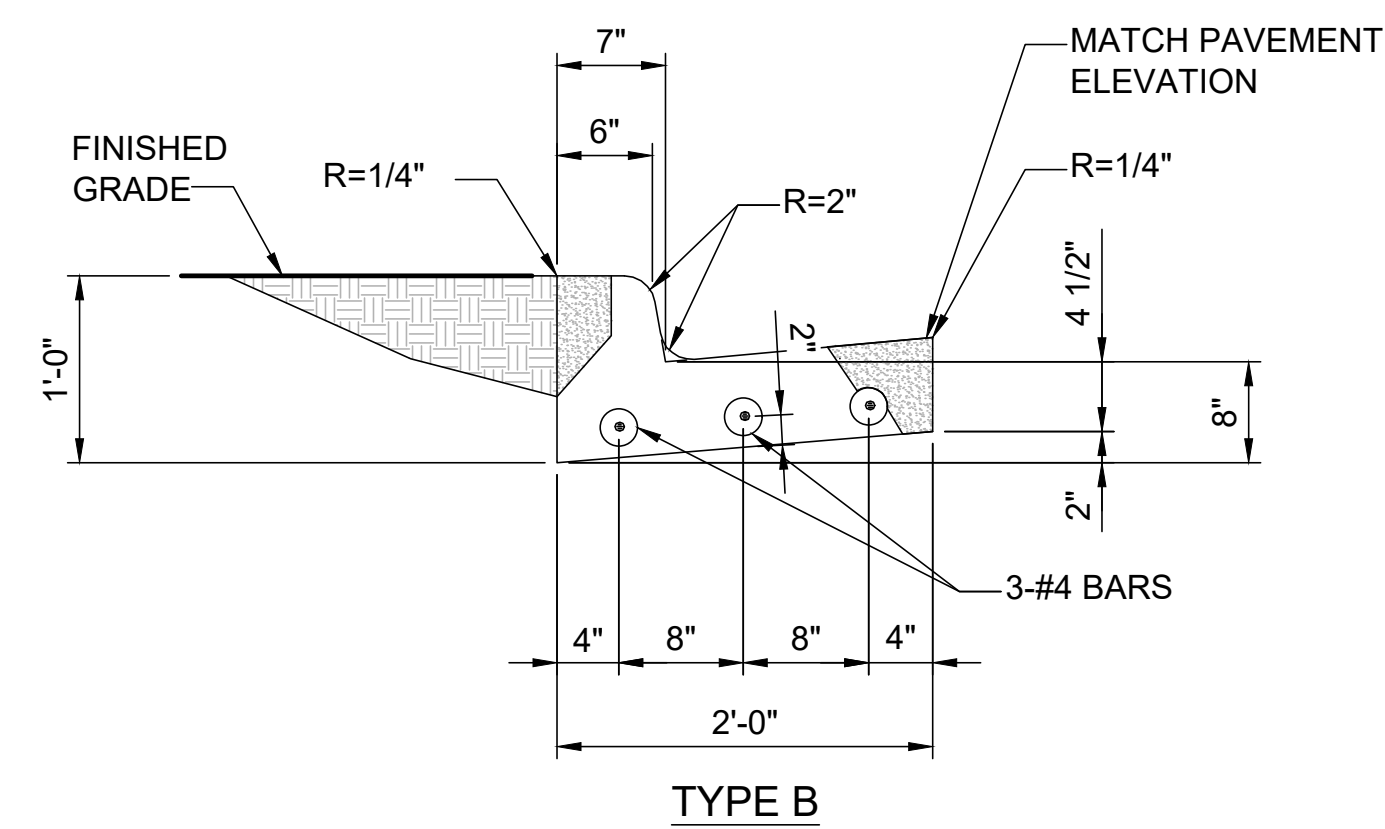
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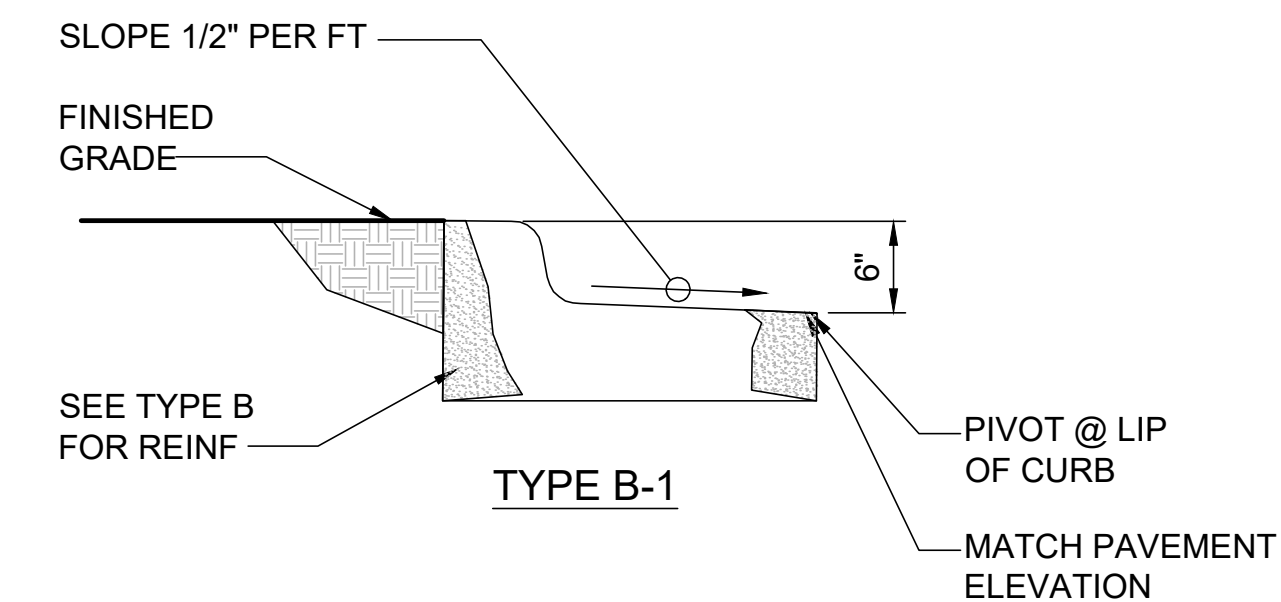
NOT USED

NO SCALE

E



TYPE B



TYPE B-1

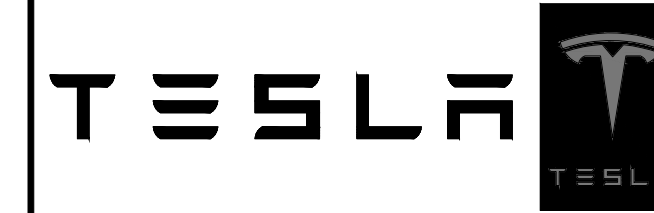
NOTES

- 1/2" PRE MOLDED EXPANSION JOINTS SHALL BE PLACED AT POINTS OF CURVATURE, CURB RETURNS, CURB INLETS, AND AT 250' CENTERS. CONTRACTION JOINTS SHALL BE 2" DEEP, 3/16" WIDE, AND PLACED AT 15'

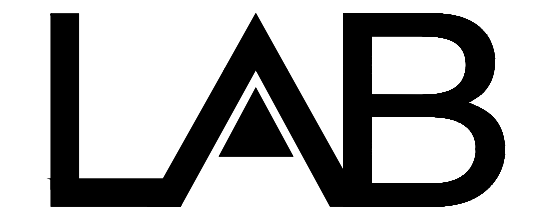
CONCRETE CURB DETAIL

NO SCALE

F



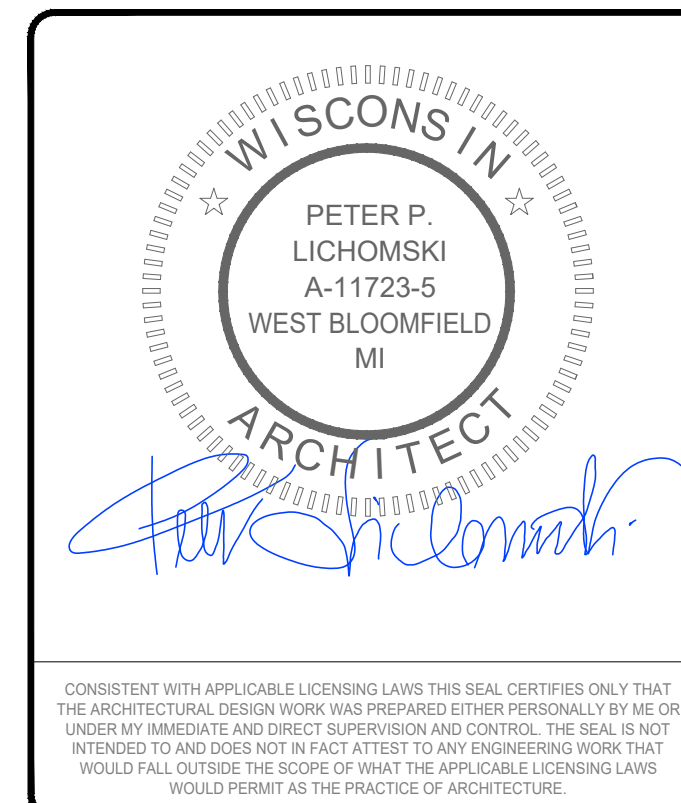
3500 DEER CREEK RD
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49030 Pontiac Trail, Ste 400
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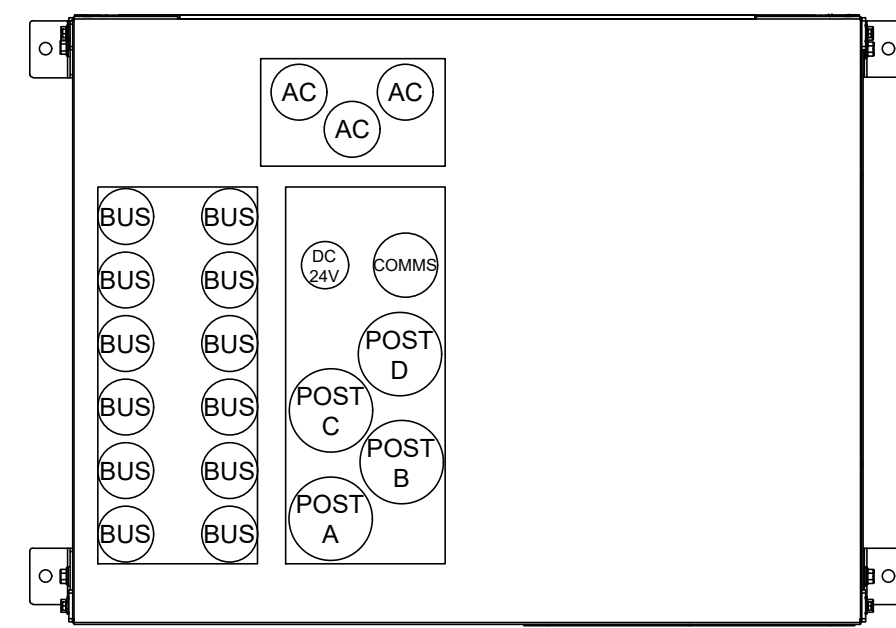
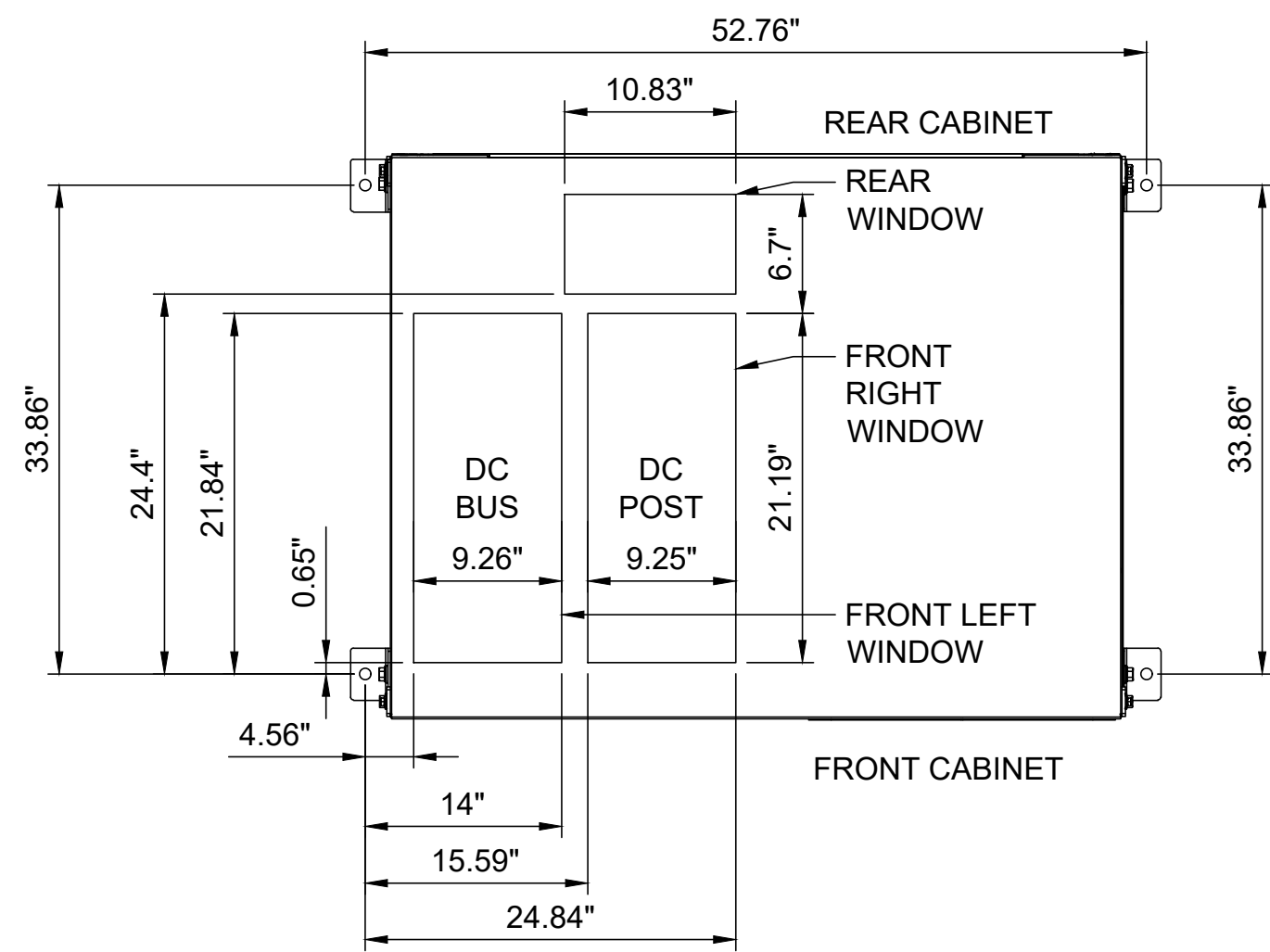


CONSISTENT WITH APPLICABLE LICENSING LAWS THIS SEAL CERTIFIES ONLY THAT THE ARCHITECTURAL DESIGN WORK WAS PREPARED EITHER PERSONALLY BY ME OR UNDER MY IMMEDIATE AND DIRECT SUPERVISION AND CONTROL. THE SEAL IS NOT INTENDED TO AND DOES NOT IN FACT ATTEST TO ANY ENGINEERING WORK THAT WOULD FALL OUTSIDE THE SCOPE OF WHAT THE APPLICABLE LICENSING LAWS WOULD PERMIT AS THE PRACTICE OF ARCHITECTURE.

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675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
INSTALLATION DETAILS

SHEET NUMBER
D-1

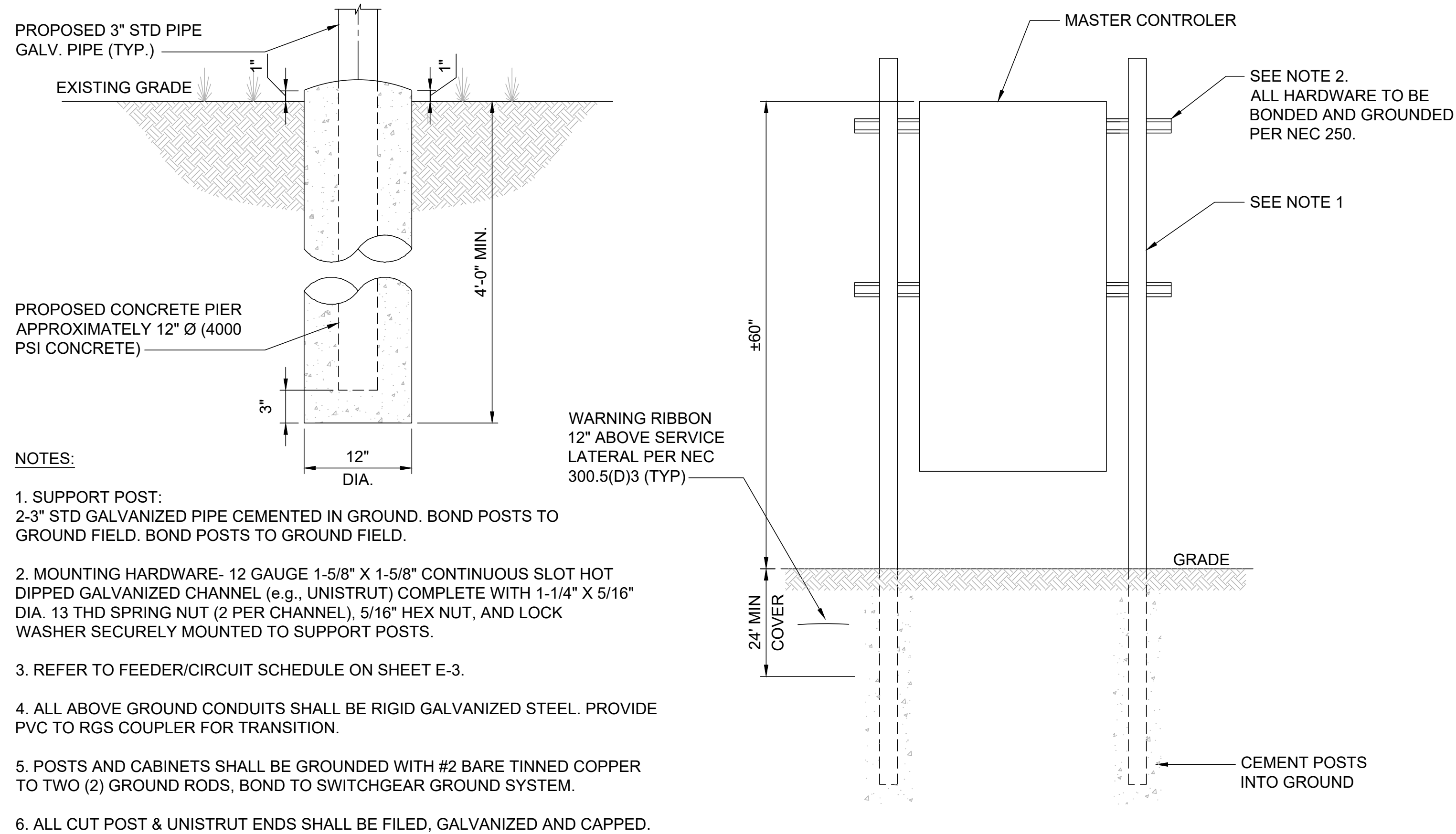


| CONDUIT AND CONDUCTOR POSITIONING | |
|-----------------------------------|--|
| REAR WINDOW | AC CONDUITS |
| FRONT LEFT WINDOW | DC BUS CONDUITS |
| FRONT RIGHT WINDOW | DC POST CONDUITS ETHERNET CABLE FOR TESLA SITE CONTROLLER 24V DC OPTIONAL BACKUP POWER FOR TESLA SITE CONTROLLER |

CONDUIT POSITIONING AND ANCHORING LOCATIONS

NO SCALE

A

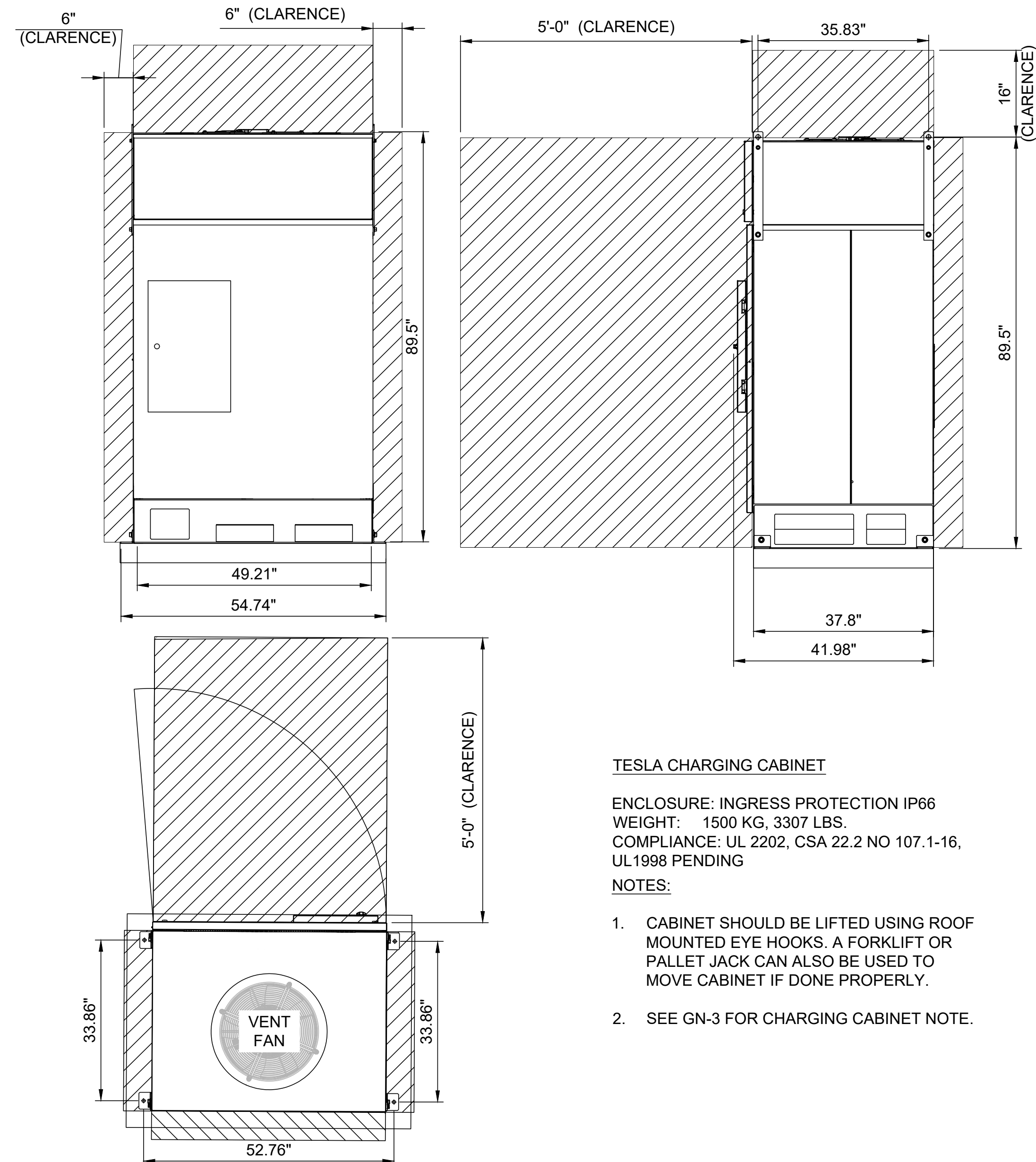


- NOTES:**
- SUPPORT POST: 2-3" STD GALVANIZED PIPE CEMENTED IN GROUND. BOND POSTS TO GROUND FIELD. BOND POSTS TO GROUND FIELD.
 - MOUNTING HARDWARE- 12 GAUGE 1-5/8" X 1-5/8" CONTINUOUS SLOT HOT DIPPED GALVANIZED CHANNEL (e.g., UNISTRUT) COMPLETE WITH 1-1/4" X 5/16" DIA. 13 THD SPRING NUT (2 PER CHANNEL), 5/16" HEX NUT, AND LOCK WASHER SECURELY MOUNTED TO SUPPORT POSTS.
 - REFER TO FEEDER/CIRCUIT SCHEDULE ON SHEET E-3.
 - ALL ABOVE GROUND CONDUITS SHALL BE RIGID GALVANIZED STEEL. PROVIDE PVC TO RGS COUPLER FOR TRANSITION.
 - POSTS AND CABINETS SHALL BE GROUNDED WITH #2 BARE TINNED COPPER TO TWO (2) GROUND RODS, BOND TO SWITCHGEAR GROUND SYSTEM.
 - ALL CUT POST & UNISTRUT ENDS SHALL BE FILED, GALVANIZED AND CAPPED.

METER & CT CABINET MOUNTED H-FRAME DETAIL

NO SCALE

D



TESLA CHARGING CABINET

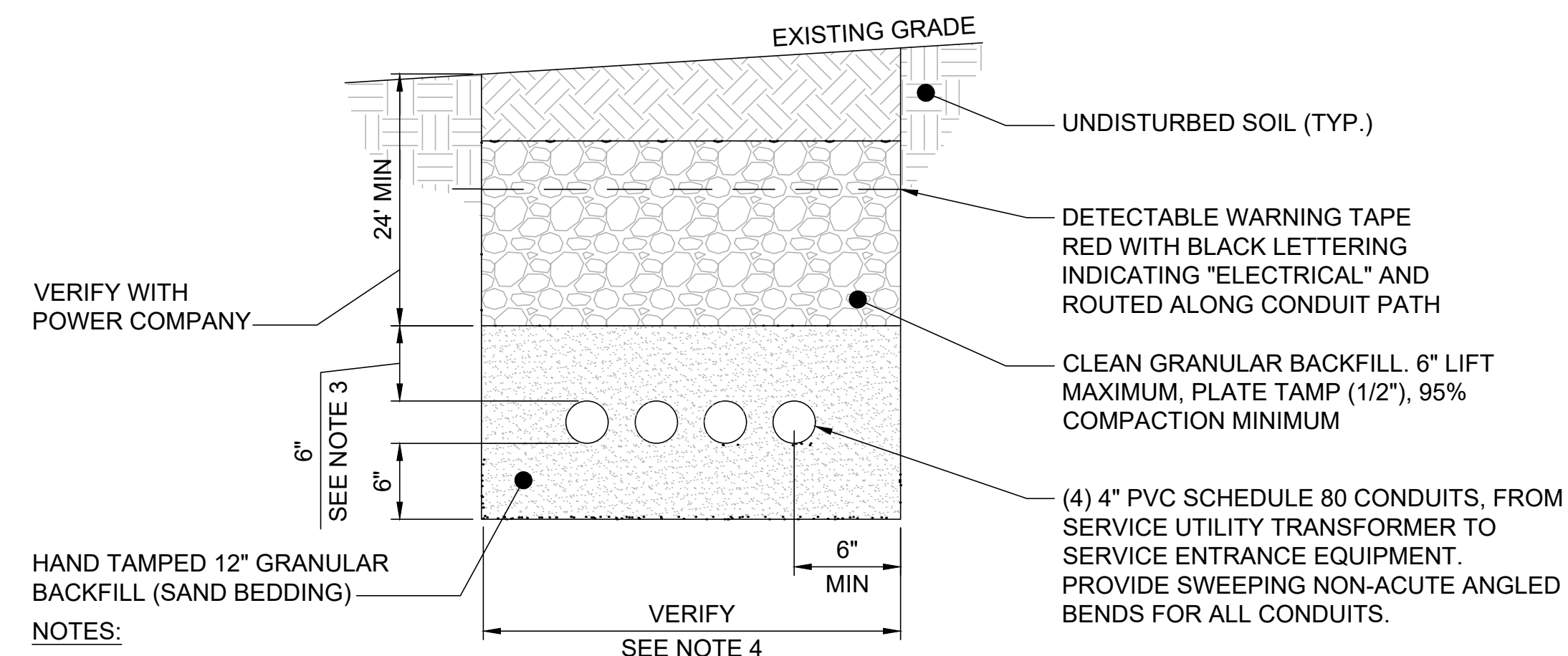
ENCLOSURE: INGRESS PROTECTION IP66
WEIGHT: 1500 KG, 3307 LBS.
COMPLIANCE: UL 2202, CSA 22.2 NO 107.1-16, UL1998 PENDING

- NOTES:**
- CABINET SHOULD BE LIFTED USING ROOF MOUNTED EYE HOOKS. A FORKLIFT OR PALLET JACK CAN ALSO BE USED TO MOVE CABINET IF DONE PROPERLY.
 - SEE GN-3 FOR CHARGING CABINET NOTE.

TYPICAL TESLA SUPERCHARGER V3 CABINET MANUFACTURER DETAILS - FOR REFERENCE ONLY

NO SCALE

B



- NOTES:**
- ANY EXCAVATION LEFT OPEN SHOULD BE SECURELY FENCED OFF.
 - ANY PAVEMENT DAMAGE DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO PRECONSTRUCTION CONDITIONS OR BETTER.
 - CONTRACTOR SHALL INSTALL CONDUITS BELOW LOCAL FROST LINE. SHOULD FIELD CONDITIONS VARY, CONTRACTOR SHALL COORDINATE WITH CONTACT ENGINEER LISTED ON SHEET T-1.
 - VERIFY WIDTH OF TRENCH REQUIRED. REFER TO SITE ELECTRICAL DRAWING ON SHEET E-2 FOR ROUTING.
 - VERIFY ALL REQUIREMENTS WITH POWER COMPANY

TYPICAL SECONDARY FEEDERS TRENCH DETAIL

NO SCALE

E



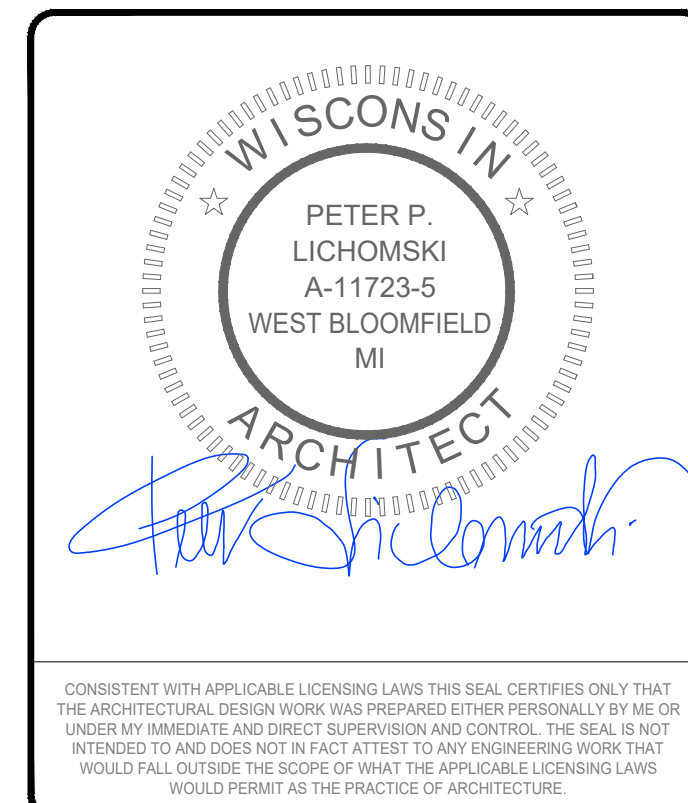
3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 681-5000



49030 Pontiac Trail, Ste 400
Wixom, Michigan 48393
PHONE: 248-705-9212

DRAWN BY: RC
CHECKED BY: PL

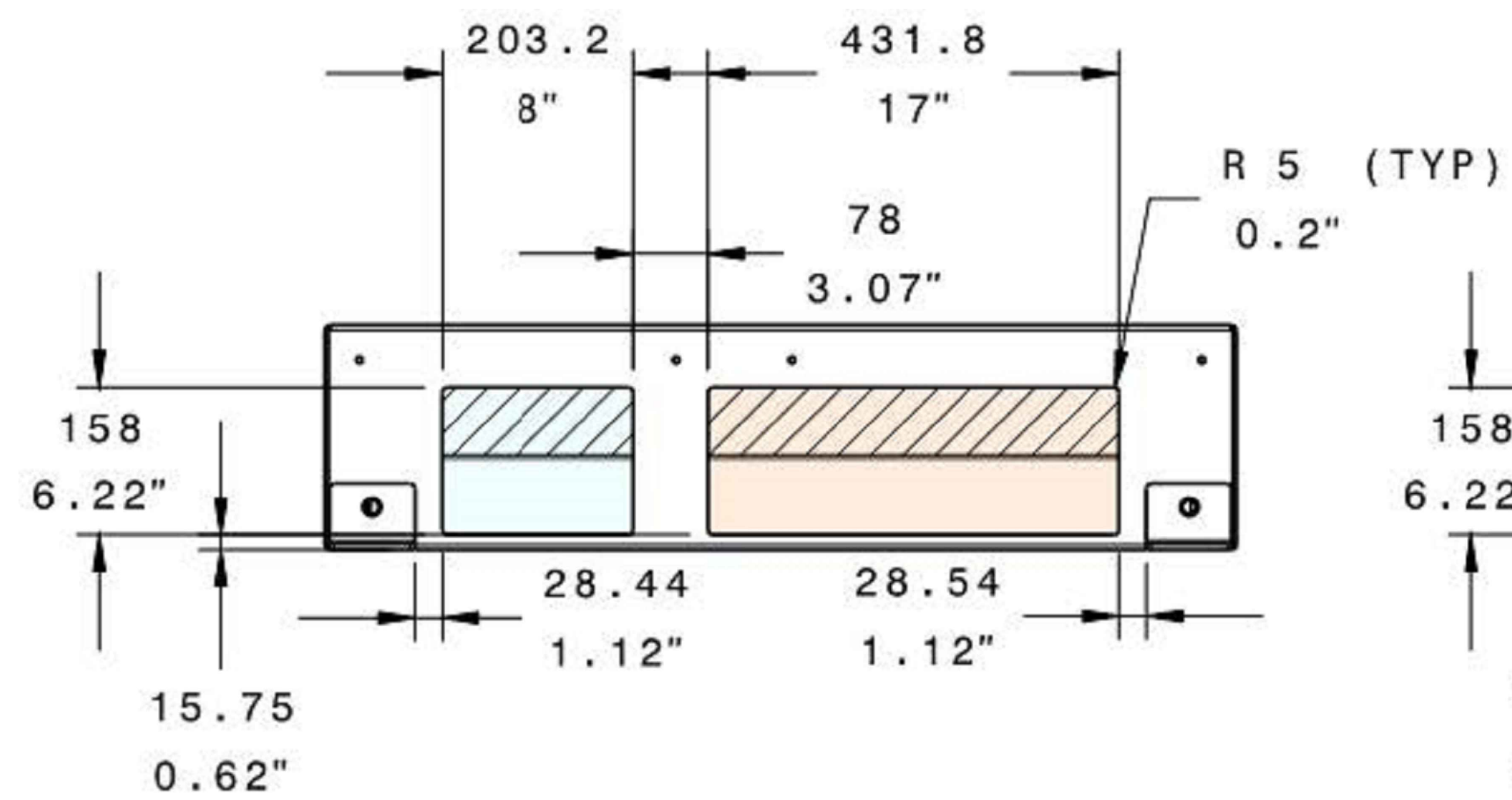
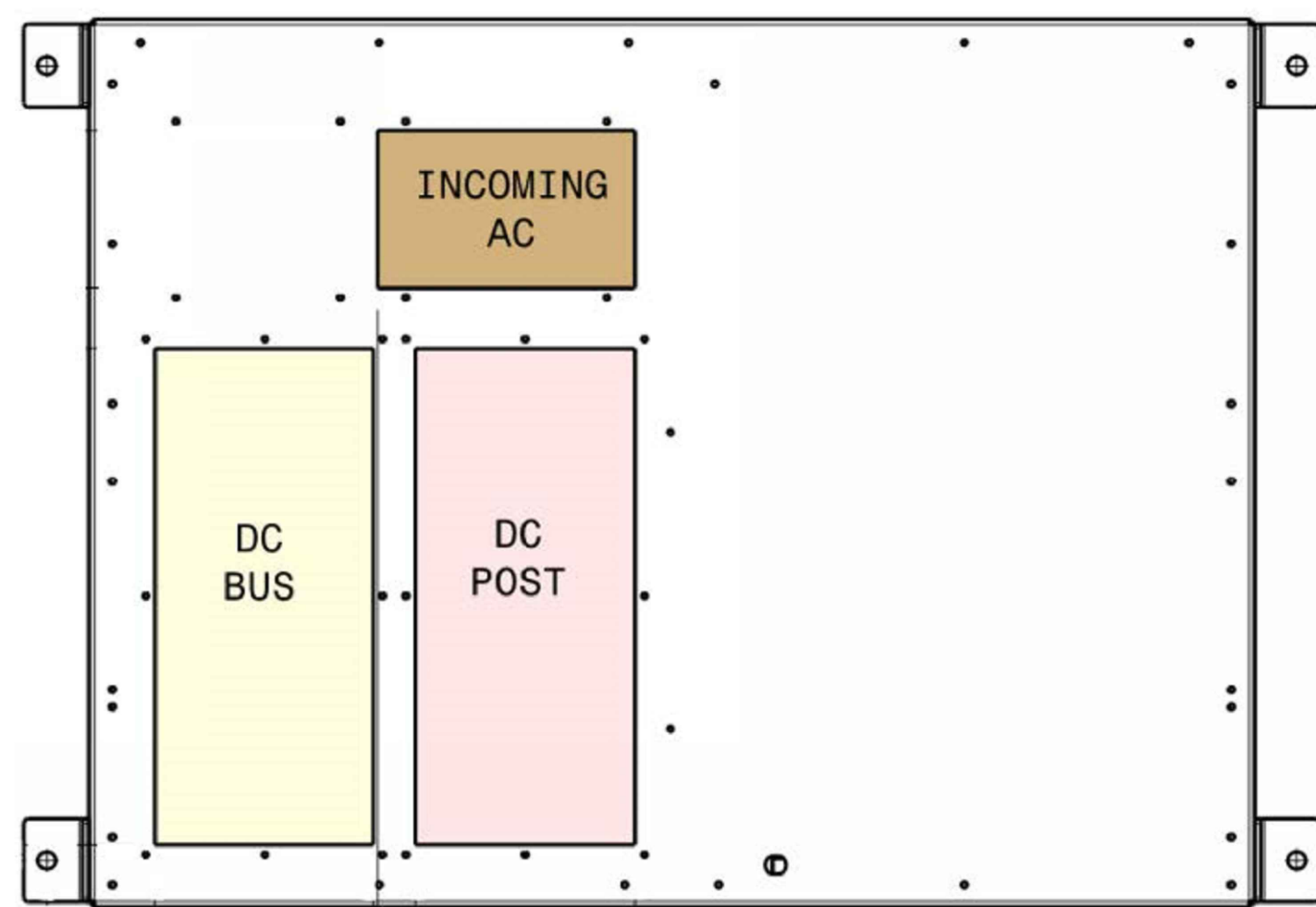
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|-----|------------|--------------|
| D | 10/20/2020 | CD90 |
| C | 07/30/2020 | CD90 |
| B | 01/20/2020 | REVISED CD50 |
| A | 01/06/2020 | CD50 |



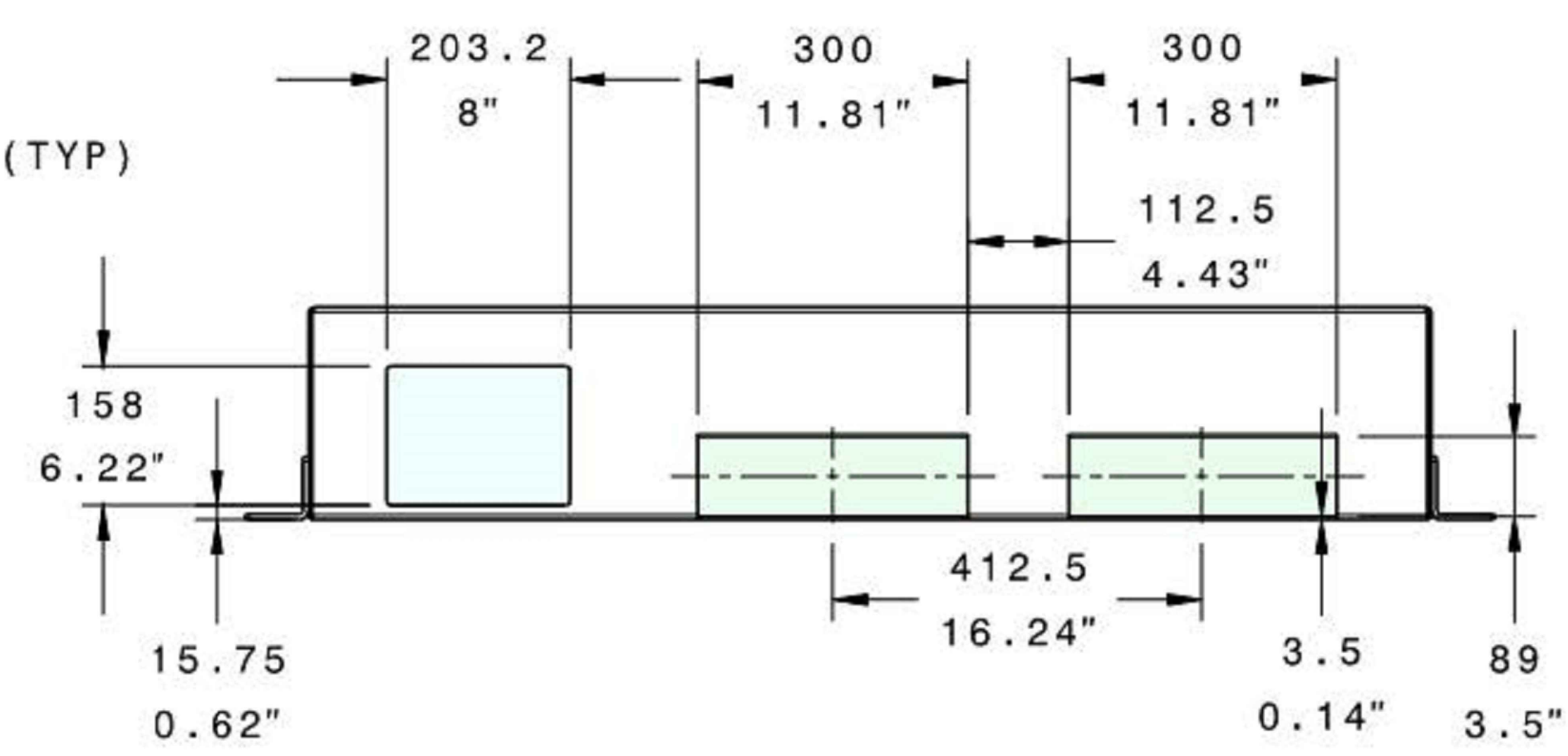
SITE NAME: MADISON, WI (TRT#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
INSTALLATION DETAILS

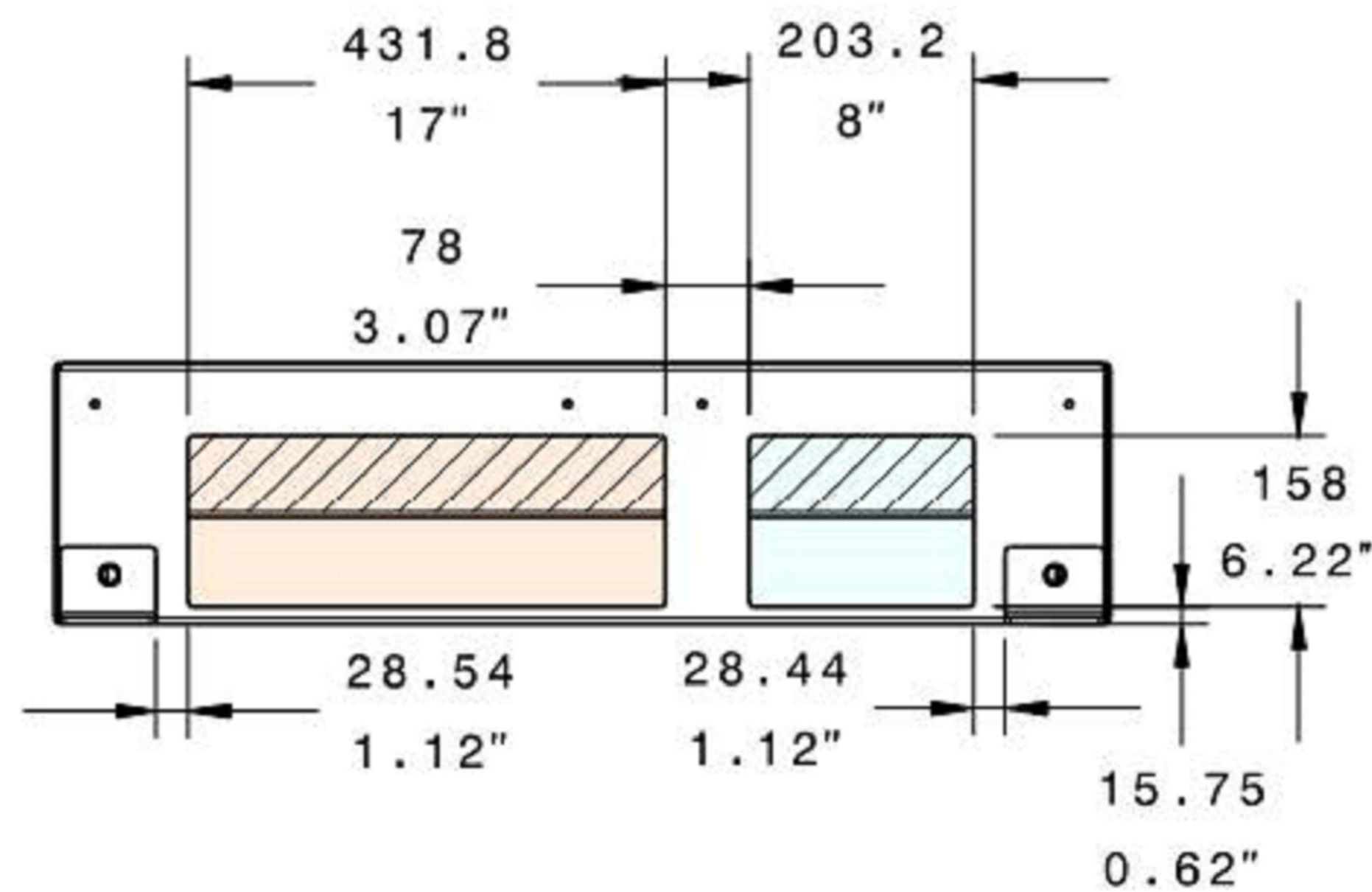
SHEET NUMBER
D-3



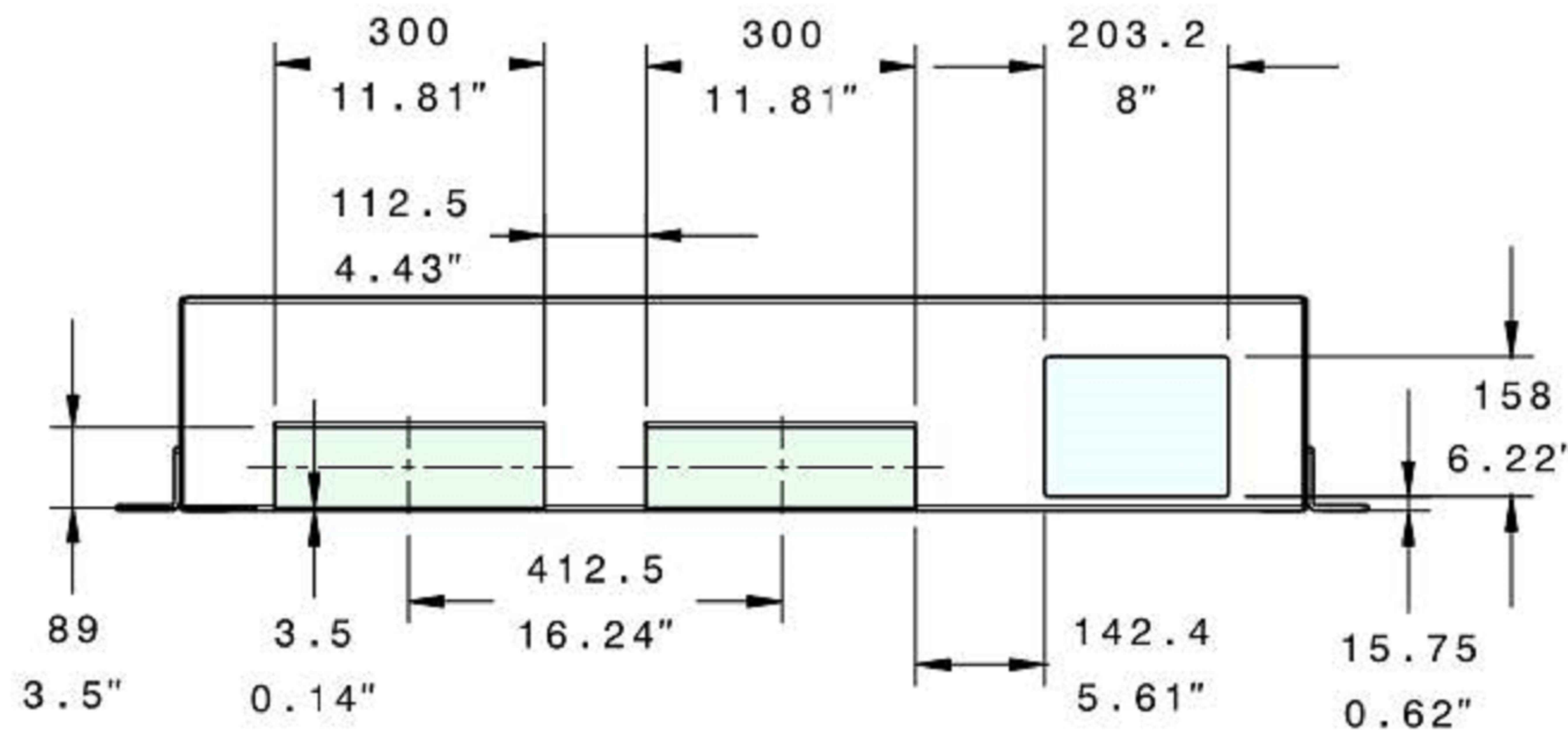
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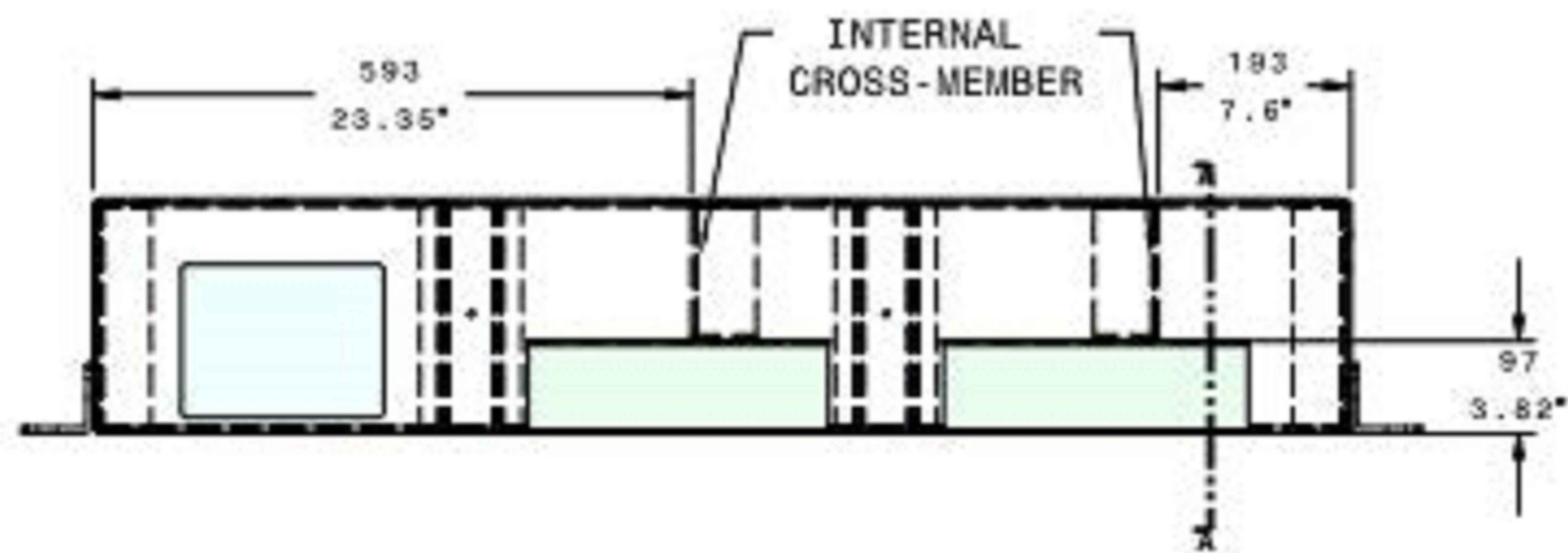
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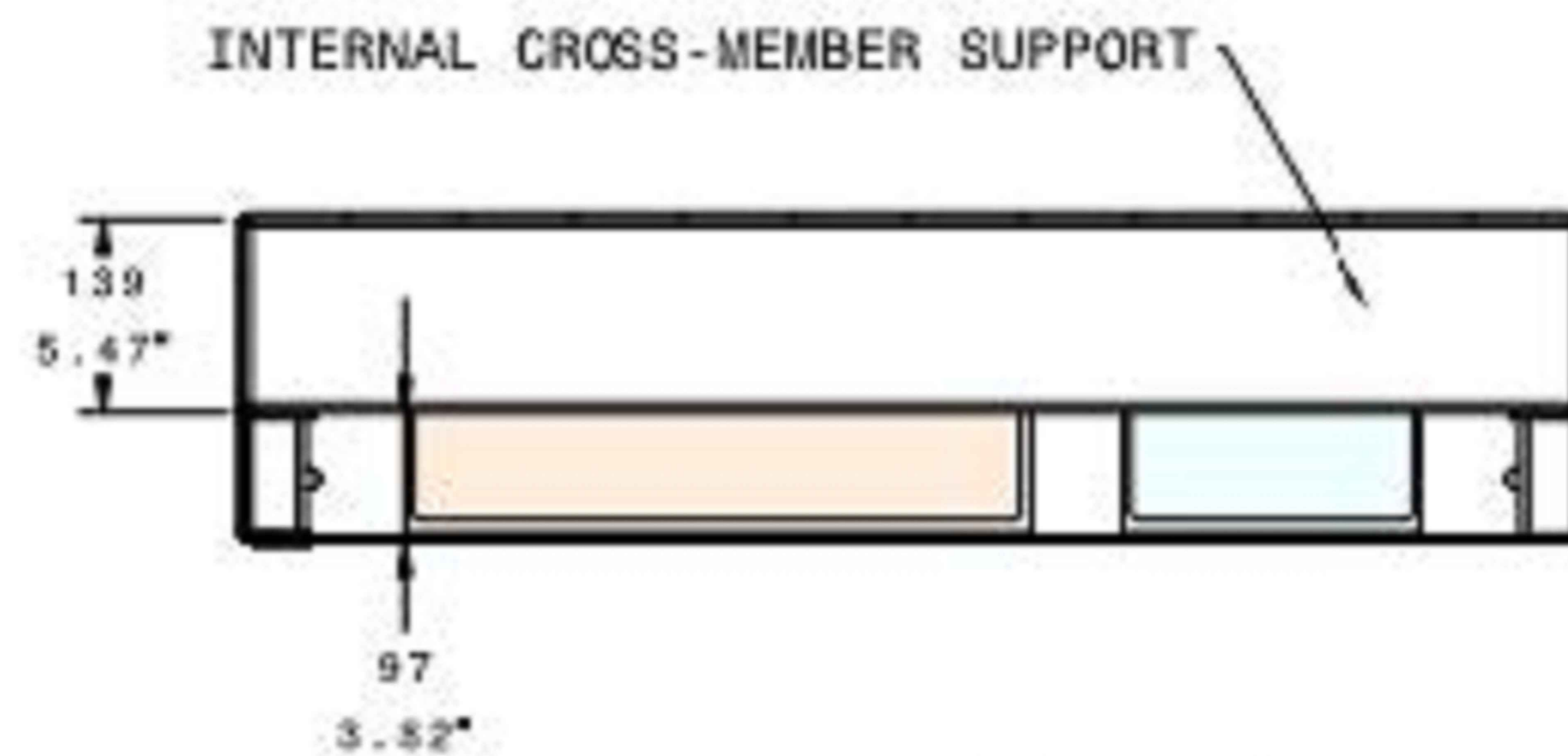
RIGHT



REAR



FRONT (HIDDEN LINES SHOWN)



SECTION VIEW A-A

TESLA

3500 DEER CREEK RD
PALO ALTO, CA 94304
(650) 681-5000

LAB

49030 Pontiac Trail, Ste 400
Wixom, Michigan 48393
PHONE: 248-705-9212

DRAWN BY: RC
CHECKED BY: PL

| REV | DATE | DESCRIPTION |
|-----|------------|--------------|
| D | 10/20/2020 | CD90 |
| C | 07/30/2020 | CD90 |
| B | 01/20/2020 | REVISED CD50 |
| A | 01/06/2020 | CD50 |

WISCONSIN ARCHITECT

PETER P. LICHOMSKI
A-11723-5
WEST BLOOMFIELD MI

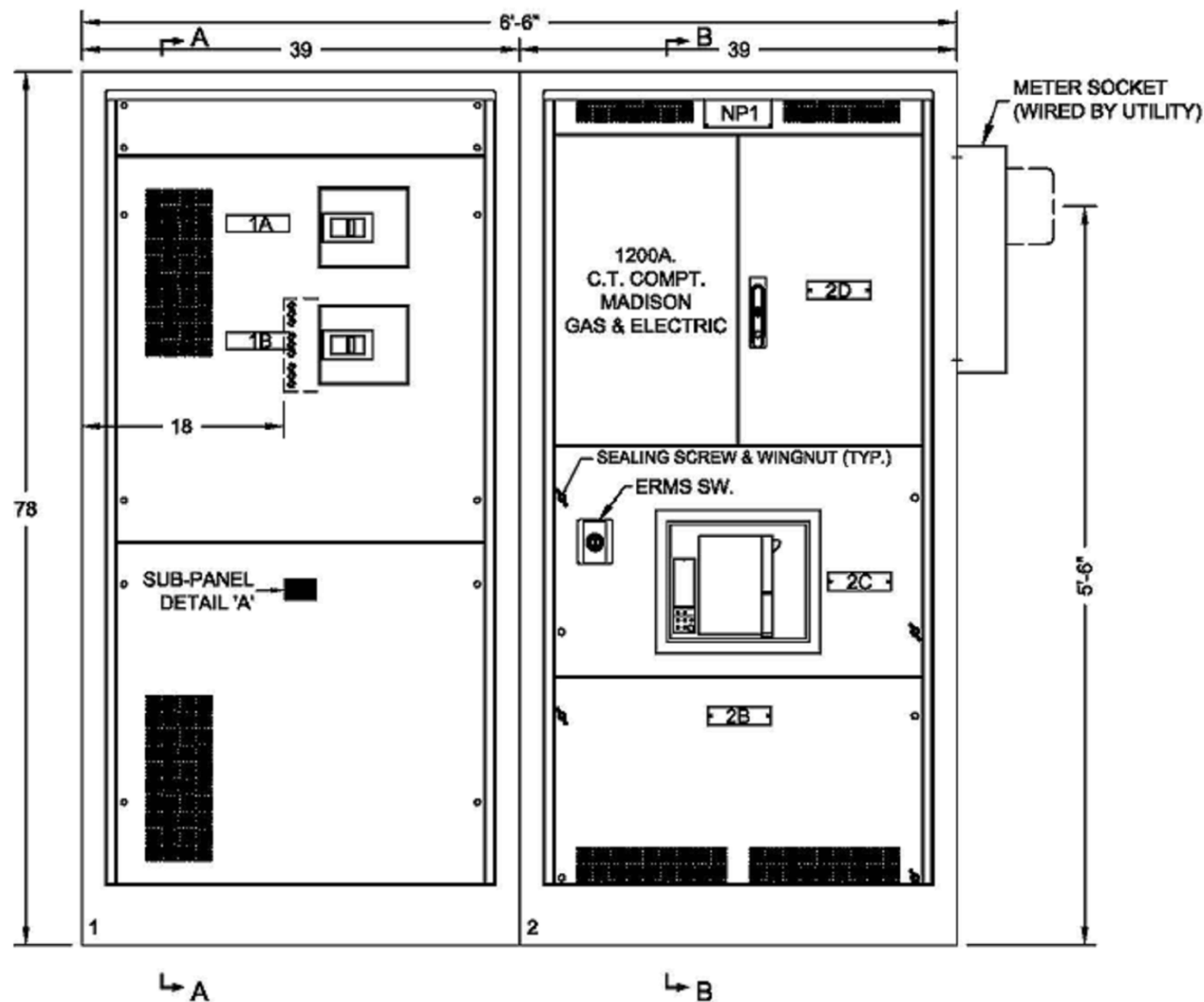
Peter P. Lichomski

CONSISTENT WITH APPLICABLE LICENSING LAWS THIS SEAL CERTIFIES ONLY THAT THE ARCHITECTURAL DESIGN WORK WAS PREPARED EITHER PERSONALLY BY ME OR UNDER MY IMMEDIATE AND DIRECT SUPERVISION AND CONTROL. THE SEAL IS NOT INTENDED TO AND DOES NOT IN FACT ATTEST TO ANY ENGINEERING WORK THAT WOULD FALL OUTSIDE THE SCOPE OF WHAT THE APPLICABLE LICENSING LAWS WOULD PERMIT AS THE PRACTICE OF ARCHITECTURE.

SITE NAME: MADISON, WI (TR#12707)
675 S WHITNEY WAY,
MADISON, WI 53711

SHEET TITLE
INSTALLATION DETAILS

SHEET NUMBER
D-4



FRONT VIEW - NEMA 3R
(SHOWN WITHOUT DOORS)

PRODUCT DESCRIPTION & RATINGS:

PRODUCT TYPE

- EV-2 (SERVICE SWITCHBOARD)
- V3 CHARGING

UTILITY INFORMATION

- MGE (MADISON GAS & ELECTRIC)
- METER AFTER DISCONNECT (COLD SEQUENCE)
- UTILITY COMPARTMENT DOORS SHALL HAVE MANUAL DOOR STAYS

POWER SYSTEM DATA

- 3Ø, 4W., 480Y/277 VOLTS
- 65KA SHORT CIRCUIT RATING
- INCOMING - SECTION 2, BOTTOM FEED

BUS SYSTEM DATA

- 1200A. SILVER PLATED COPPER MAIN BUS
- DENSITY RATED AT 1000A PER SQUARE INCH
- 98% CONDUCTIVITY RATED IN ACCORDANCE w/ UL891
- BRACED FOR 65,000 AMPS (rms) SHORT CIRCUIT CURRENT
- (1) 1/4" X 2" CU GROUND BUS

ENCLOSURE DATA

- #12 GAUGE, FORMED STEEL COVERS & DOORS
- ENCLOSURE SHALL CONFORM TO INGRESS PROTECTION REQUIREMENTS IN ACCORDANCE WITH NEMA 3R RATING.
- COVERS SHALL HAVE TAMPER-RESISTANT S.S. SCREWS AND DOOR HANDLES SHALL BE EQUIPPED WITH PADLOCK HASP.
- A DOUBLE PADLOCK HASP ATTACHMENT SHALL BE PROVIDED FOR THE EXTERIOR UTILITY SECTION DOOR.
- FINISH SHALL BE WHITE
- FRONT ACCESSIBLE ONLY
- ALL UN-METERED BE HAVE RESTRICTIVE BARRIERS AND/OR COVERS WITH SEALING PROVISIONS.

CODE STANDARDS

- UL891

LUGS

- CU/AL MECHANICAL

NAMEPLATES

- LAMICOID TYPE WHITE w/BLACK LETTERS, UNLESS OTHERWISE NOTED

ACCESSORIES

- STRIP HEATERS & CONTROLLER TO BE INSTALLED INSIDE ENCLOSURE.

REFERENCES:

- SECTION VIEWS SEE SHT-02
- FOR NAMEPLATE DESIGNATIONS SEE 'SERVICE SWITCHBOARD SCHEDULE' SHT-04

| NO. | DESCRIPTION | BY | DATE |
|------------------|---|-----|-----------|
| 2 | ADDED NOTE FOR UTILITY COMPARTMENT DOOR STAYS | JSS | 2/28/2020 |
| 1 | REVISED PER UTILITY COMMENTS | JSS | 2/21/2020 |
| REVISIONS | | | |

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304

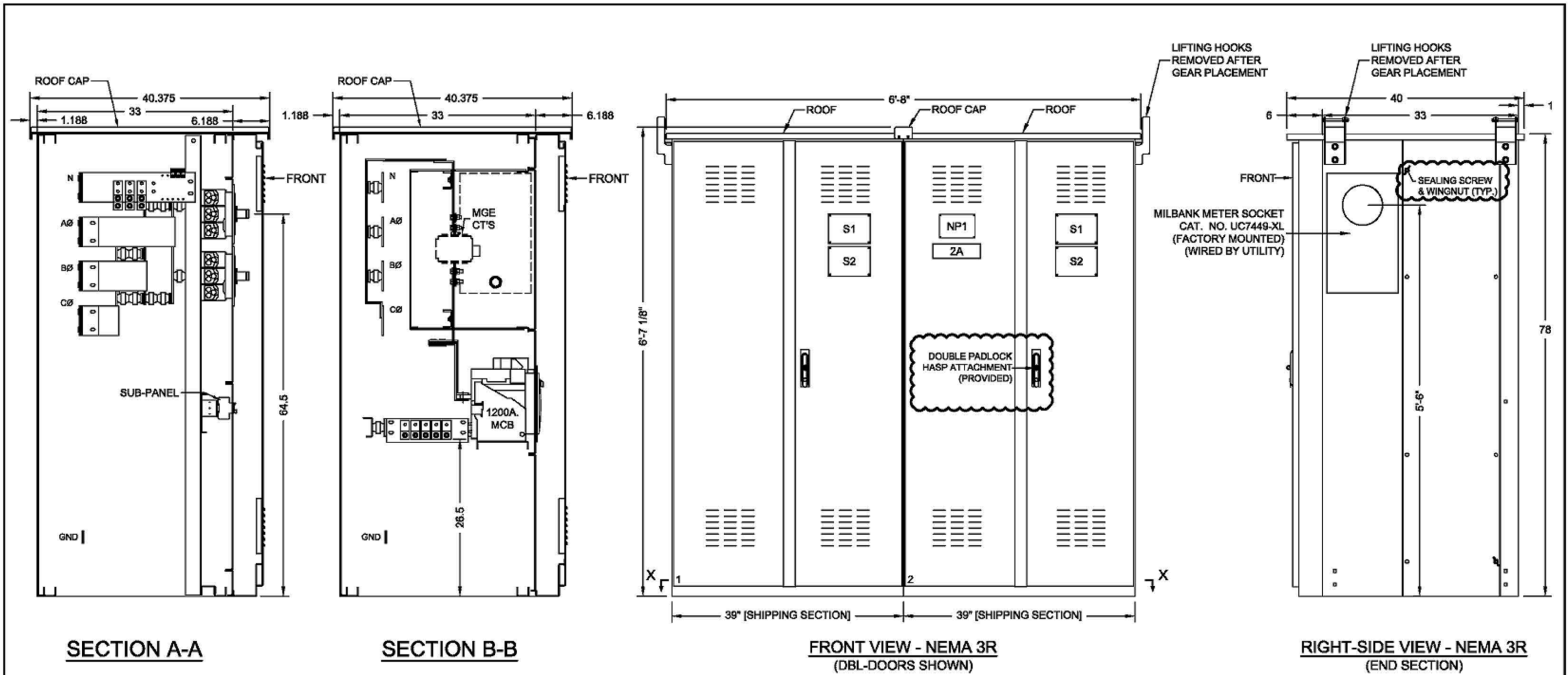
MADISON, WI



LINCOLN ELECTRIC
PRODUCTS CO., INC.

947 LEHIGH AVE., UNION, N.J. 08869
(908) 688-2900 FAX (908) 688-8549
Website: www.leproduct.com

| | | | |
|----------|--------------|------|-----------|
| DRAWN | JSS | DATE | 2/11/2020 |
| PLOT | 1=1 | S.O. | T-24XXX |
| DWG. NO. | 24XXXSB40-01 | | |



SECTION A-A

SECTION B-B

**FRONT VIEW - NEMA 3R
(DBL-DOORS SHOWN)**

**RIGHT-SIDE VIEW - NEMA 3R
(END SECTION)**

SIGNAGE:
 NP1 -LINCOLN NAMEPLATE (2.5" x 8" ALUMINUM)
 NP2 -LINCOLN NAMEPLATE (4" x 6" ALUMINUM)
 S1 -DANGER 480 VOLTS (BI-LINGUAL)
 S2 -DANGER ARC FLASH (BI-LINGUAL)

REFERENCES:
 - FOR NAMEPLATE DESIGNATIONS SEE 'SERVICE SWITCHBOARD SCHEDULE' SHT-04
 - FOR SECTION VIEW 'X-X' SEE SHT-05

| NO. | DESCRIPTION | BY | DATE |
|------------------|------------------------------|-----|-----------|
| 1 | REVISED PER UTILITY COMMENTS | JSS | 2/21/2020 |
| REVISIONS | | | |

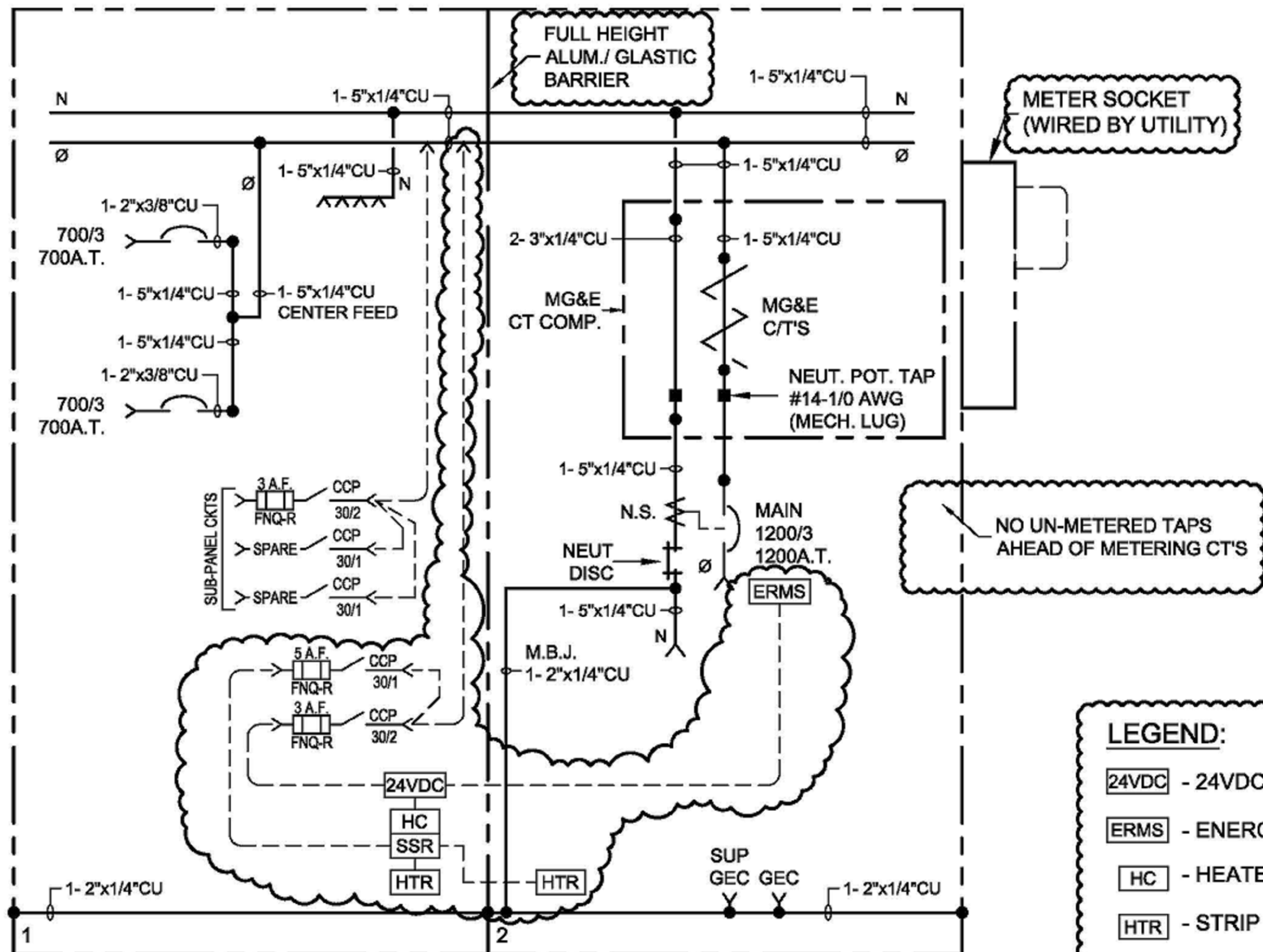
TESLA
 3500 DEER CREEK ROAD
 PALO ALTO, CA 94304

 MADISON, WI



LINCOLN ELECTRIC
 PRODUCTS CO., INC.
 947 LEHIGH AVE., UNION, N.J. 08869
 (908) 688-2900 FAX (908) 688-8549
 Website: www.leproduct.com

| | | | |
|----------|-----|-------------|-----------|
| DRAWN | JSS | DATE | 2/11/2020 |
| PLOT | 1=1 | S.O. | T-24XXX |
| DWG. NO. | | 24XXSB40-02 | |



1200A SERVICE SWITCHBOARD
ONE-LINE

LEGEND:

- 24VDC - 24VDC POWER SUPPLY
- ERMS - ENERGY REDUCTION MAINTENANCE SWITCH
- HC - HEATER CONTROLLER
- HTR - STRIP HEATER
- SSR - SOLID STATE RELAY

| NO. | DESCRIPTION | BY | DATE |
|------------------|------------------------------|-----|-----------|
| 1 | REVISED PER UTILITY COMMENTS | JSS | 2/21/2020 |
| REVISIONS | | | |

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304

MADISON, WI

LINCOLN ELECTRIC
PRODUCTS CO., INC.
947 LEHIGH AVE., UNION, N.J. 08869
(908) 688-2900 FAX (908) 688-8549
Website: www.leproduct.com

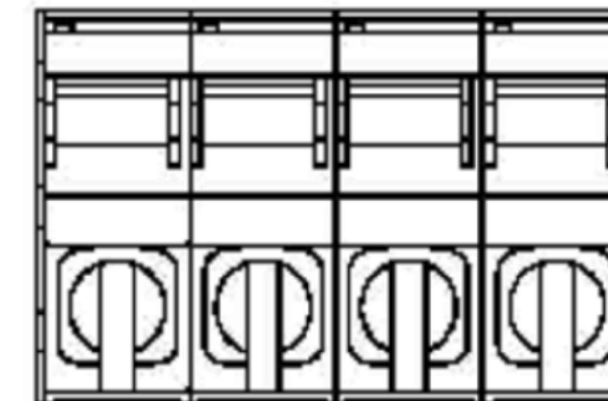
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| DRAWN | JSS | DATE | 2/11/2020 |
| PLOT | 1=1 | S.O. | T-24XXX |
| DWG. NO. | 24XXXSB40-03 | | |

SERVICE SWITCHBOARD SCHEDULE

| CUB. LOCN. | DESIGNATION | DEVICE MANUFACTURER | FRAME RATING | TRIP RATING/ TYPE | # OF POLES | DEVICE CAT. NO. | LUG INFORMATION | | | | | CABLE CONDUCTOR MATERIAL | CABLE ENTRY | NOTES |
|------------|---|---------------------|--------------|-------------------|------------|-------------------|-----------------|----------------|----------------|--------------|---------------|--------------------------|-------------|---|
| | | | | | | | QTY. | PHASES | NEUTRAL | GROUND | TYPE | | | |
| 1A | SUPERCHARGER #1 | SCHNEIDER | 700/3 'MJP' | 700A LI | 3 | MJP36700YP | 3 | #3/0-500 KCMIL | #2-600 KCMIL | #6-350 KCMIL | MECHANICAL | ALUMINUM | BOTTOM | - PADLOCK HASP (CAT. # S32831) - DOOR ESCUTCHEON (CAT. # S33718) - MECHANICAL LUGS (CAT. # AL800M23K) |
| 1B | SUPERCHARGER #2 | SCHNEIDER | 700/3 'MJP' | 700A LI | 3 | MJP36700YP | 3 | #3/0-500 KCMIL | #2-600 KCMIL | #6-350 KCMIL | MECHANICAL | ALUMINUM | BOTTOM | |
| 2A | SERVICE SWITCHBOARD 1200A., 3Ø, 4W., 480Y/277V | | | | | | | | | | | | | |
| 2B | INCOMING | | | | | | 4 | #3/0-500 KCMIL | #3/0-500 KCMIL | #6-350 KCMIL | MECHANICAL | ALUMINUM | BOTTOM | |
| 2C | MAIN | SCHNEIDER | 1200/3 'NW' | 1200A LSIG | 3 | WL1CCV64A3SXXXXXX | | | | | BUS CONNECTED | | | - ERMS (ENERGY REDUCTION MAINTENANCE SWITCH) - PADLOCK HASP |
| 2D | C.T. COMPT. MADISON GAS & ELECTRIC | | | | | | | | | | BUS CONNECTED | | | - NEUTRAL BUS POT. TAP #14- 1/0 AWG (MECH. LUG) - PADLOCK HASP |

SUB-PANEL SCHEDULE

| CKT NO. | DESIGNATION | DEVICE MANUFACTURER | BREAKER TYPE & TRIP | DEVICE CAT. NO. | LUG (QTY & SIZE) |
|-------------|-------------------|---------------------|---|-----------------|----------------------------|
| DISC. SW.-1 | MASTER CONTROLLER | BUSSMANN | CCP 2-POLE 480 VAC. FUSE FNQ-R 3A FUSE | CCP-2-30CC | (1) #18 - 6 AWG / φ & N |
| DISC. SW.-2 | SPARE | BUSSMANN | CCP 1-POLE 277 VAC. FUSE FNQ-R 15A. (MAX.) | CCP-1-30CC | (1) #18 - 6 AWG / φ & N |
| DISC. SW.-3 | SPARE | BUSSMANN | CCP 1-POLE 277 VAC. FUSE FNQ-R 15A. (MAX.) | CCP-1-30CC | (1) #18 - 6 AWG / φ & N |



**SUB-PANEL
DETAIL VIEW 'A'**

| NO. | DESCRIPTION | BY | DATE |
|------------------|------------------------------|-----|-----------|
| 1 | REVISED PER UTILITY COMMENTS | JSS | 2/21/2020 |
| REVISIONS | | | |

TESLA
3500 DEER CREEK ROAD
PALO ALTO, CA 94304

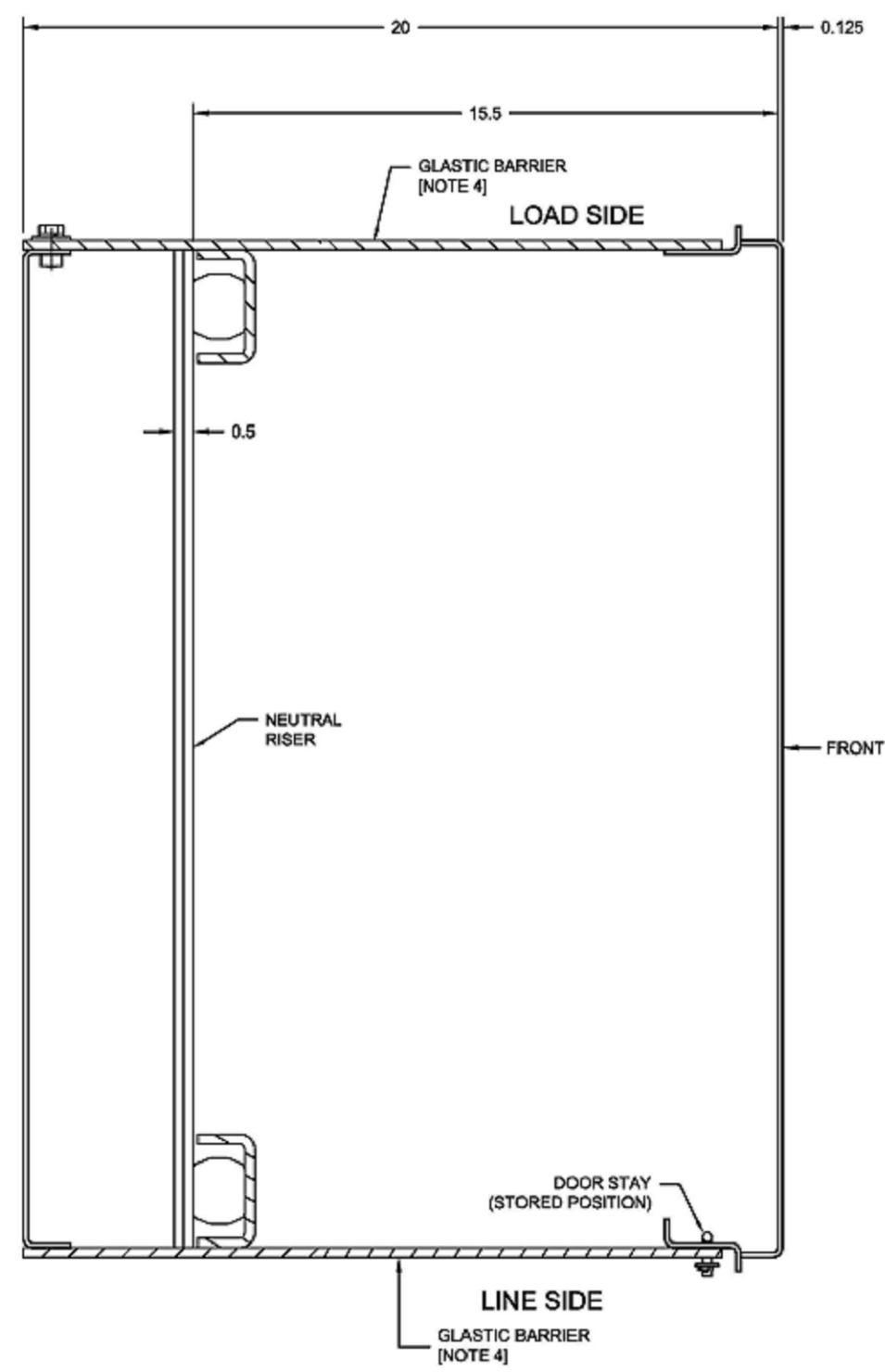
MADISON, WI



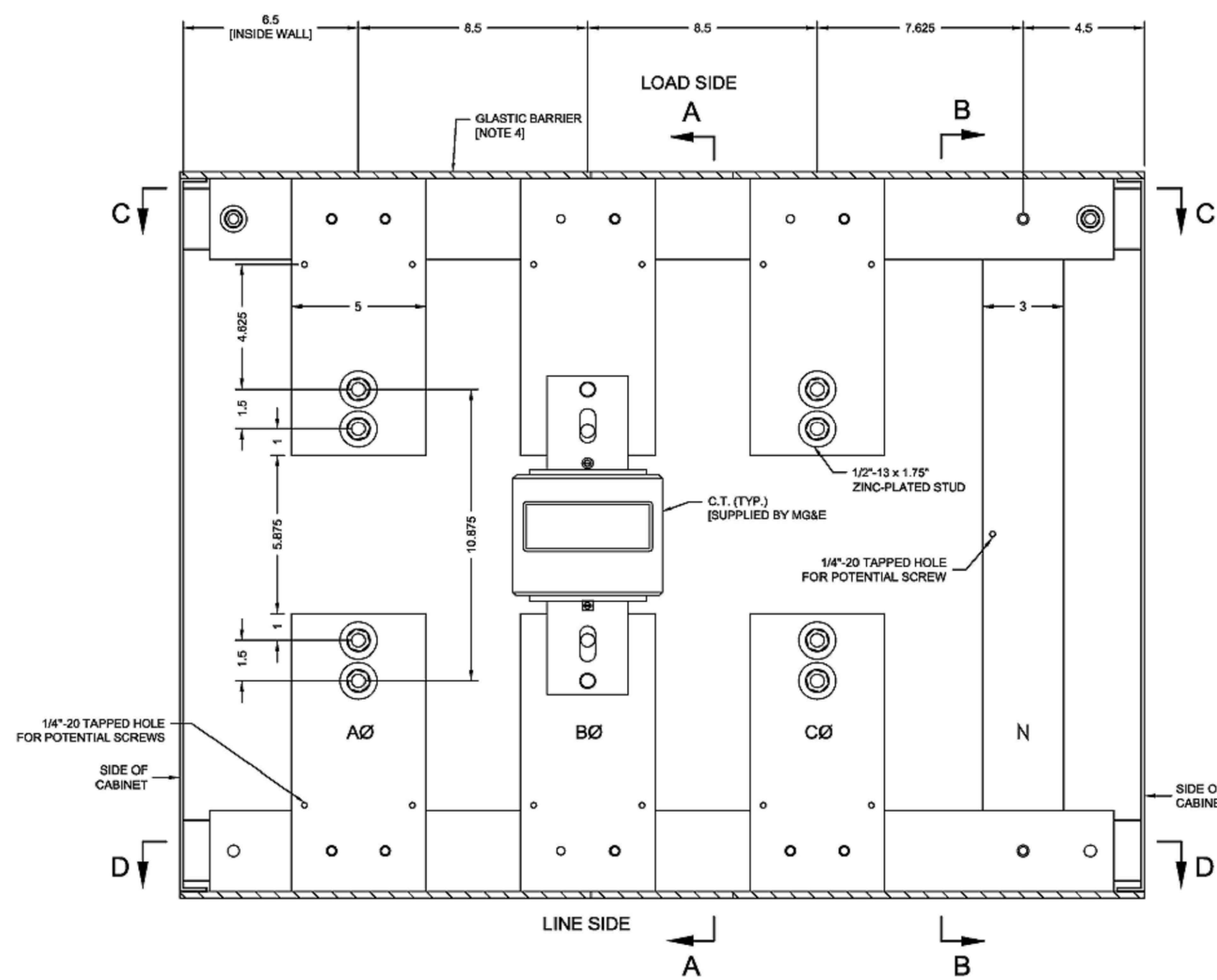
LINCOLN ELECTRIC
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947 LEHIGH AVE., UNION, N.J. 08869
(908) 688-2900 FAX (908) 688-8549
Website: www.leproduct.com

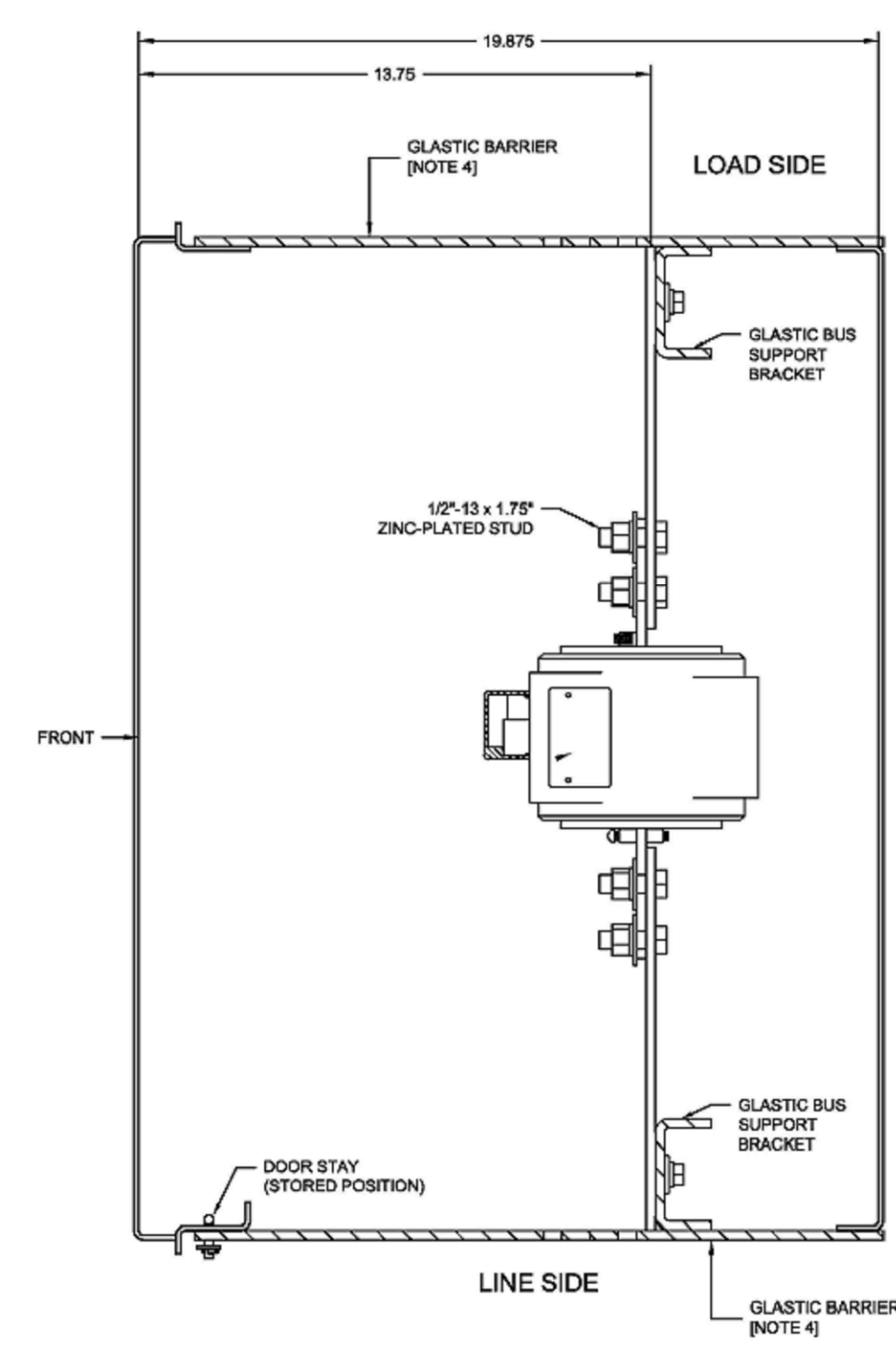
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|---------------------------------|-------------------|
| DRAWN JSS | DATE 2/11/2020 |
| PLOT 1=1 | S.O. T-24XXX |
| DWG. NO. 24XXXSB40-04 | |



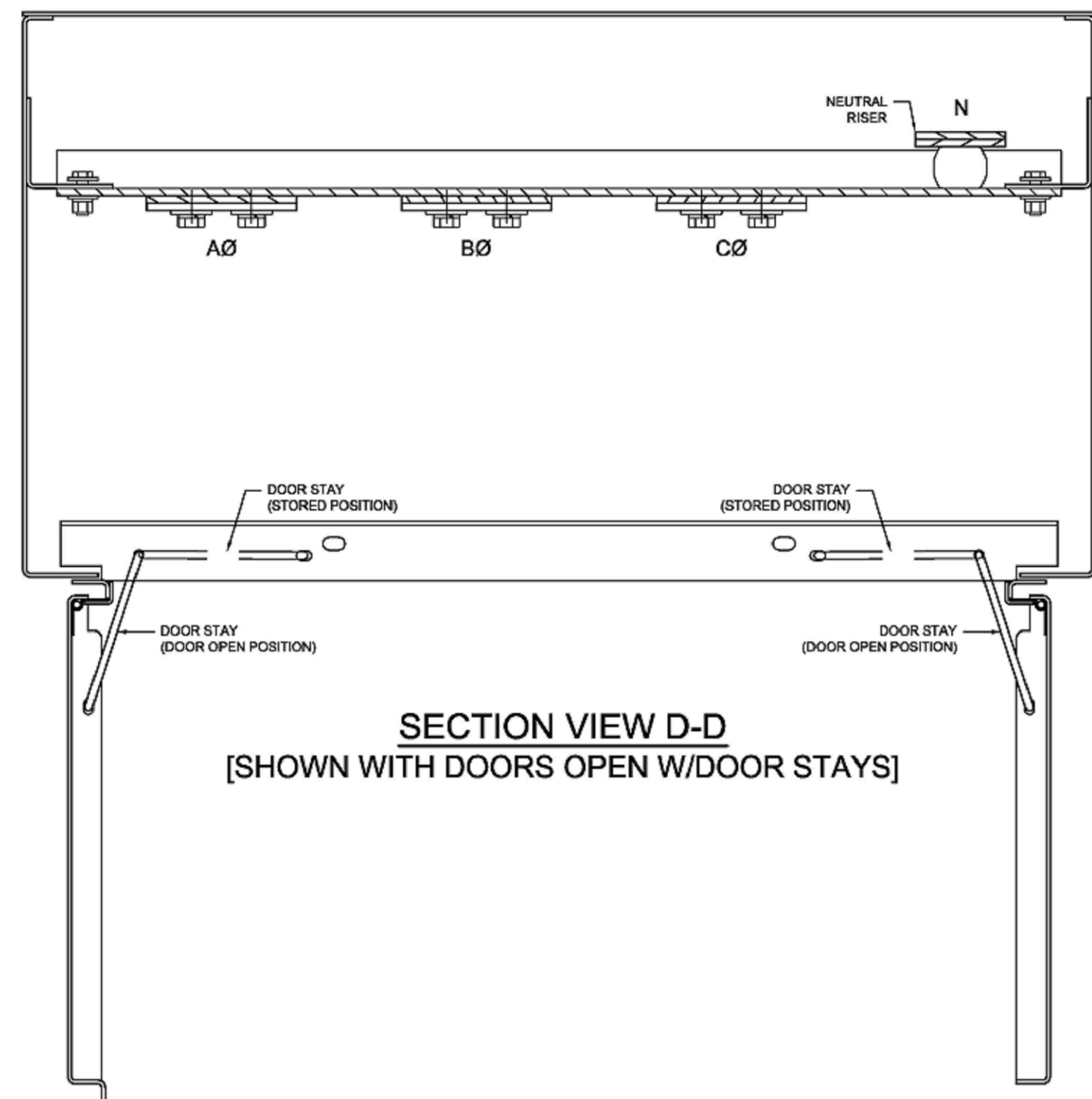
SECTION VIEW B-B
(SHOWING NEUTRAL BUS)



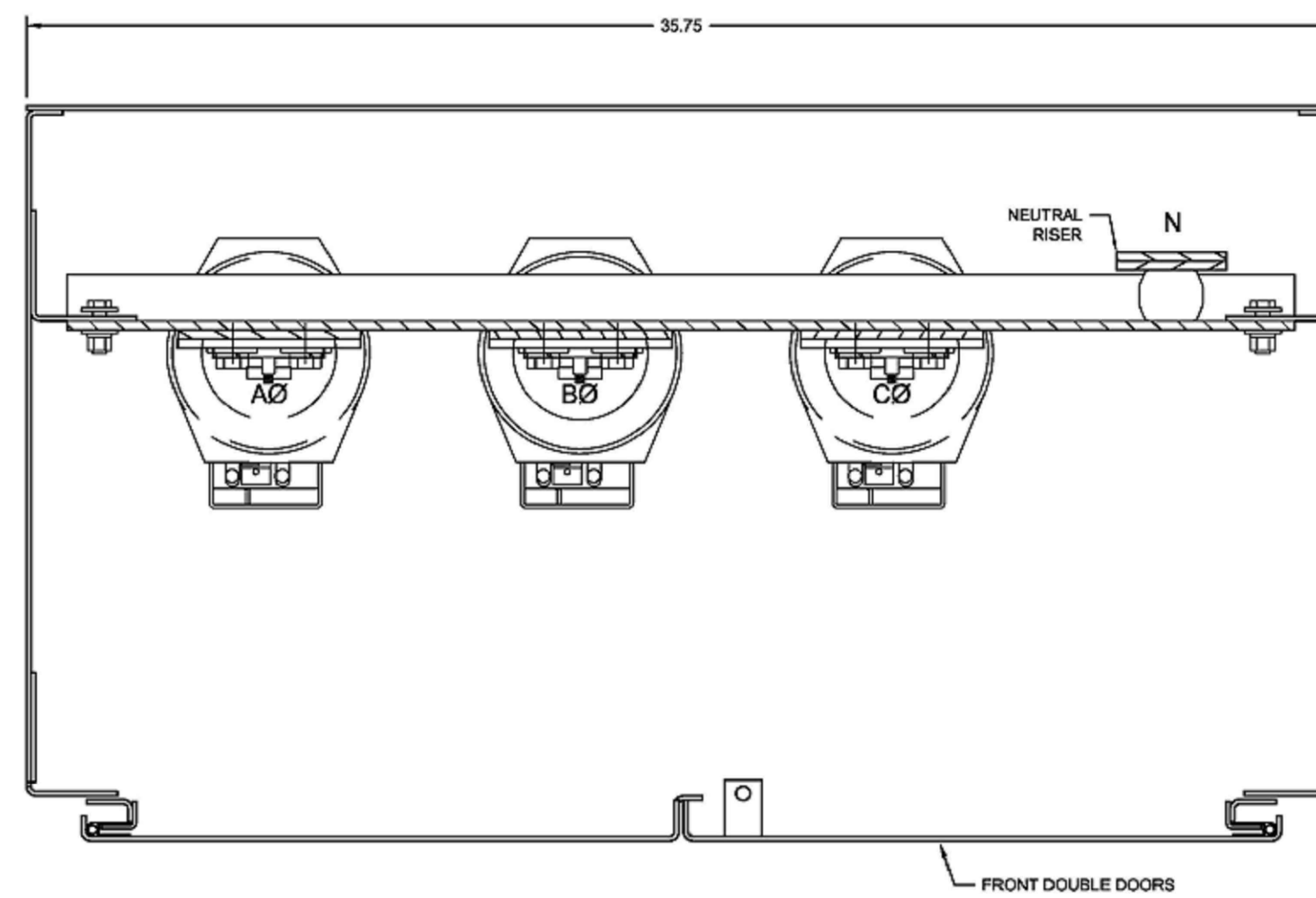
FRONT VIEW
(SHOWN WITHOUT ACCESS DOOR)



SECTION VIEW A-A
(SHOWING PHASE BUS)




SECTION VIEW D-D
(SHOWN WITH DOORS OPEN W/DOOR STAYS)



SECTION VIEW C-C

NOTES:

1. THE BUS BARS SHALL BE RIGIDLY SUPPORTED AND BE CAPABLE OF SUPPORTING THE WEIGHT OF THE TRANSFORMER (15 POUNDS MAX.)
2. BUS BARS SHALL BE SILVER PLATED COPPER, 98% CONDUCTIVITY, RATED IN ACCORDANCE WITH UL 891.
3. TRANSFORMERS SHALL BE SECURED TO BUS BARS USING ZINC-PLATED, GRADE-5, STEEL 1/2"-13 HARDWARE.
4. C.T. SECTION SHALL BE SEPARATED FROM THE REST OF THE ENCLOSURE BY BARRIERS AND BE EQUIPPED WITH DOUBLE DOORS WITH THREE-POINT CATCH. THE HANDLE HASP SHALL ACCOMMODATE PADLOCKS WITH 5/16" DIAMETER SHANK.
5. HOLES FOR THE POTENTIAL SCREWS ARE TAPPED FOR 1/4"-20 SCREWS AND SHALL BE LOCATED ON BOTH THE LINE AND LOAD SIDES. ONLY THE LINE SIDE TAP IS TO BE UTILIZED.
6. LINE SIDE BUS IS TO BE CLEARLY LABELED.
7. CABINET SHALL BE INSTALLED AS COLD-SEQUENCE ONLY (LOAD-SIDE OF SERVICE DISCONNECT)
8. BUS SIZES SHALL BE AS FOLLOWS:
 - PHASE: (1) 5" X 1/4" CU
 - NEUTRAL: (2) 3" X 1/4" CU

| | | | |
|---|----------------------------------|------------|------------|
| 1 | ADDED DETAILS SHOWING DOOR STAYS | JSS | 2/28/2020 |
| NO. | DESCRIPTION | BY | DATE |
| REVISIONS | | | |
| DRAWN BY | DATE | DWG. SCALE | PLOT SCALE |
| JSS | 2/12/2020 | NONE | 1=1 |
| TITLE BUS AND CABINET DETAILS FOR INSTALLATION OF 1200 AMP. (COLD SEQUENCE) BAR TYPE CURRENT TRANSFORMERS UTILITY: MADISON GAS & ELECTRIC | | | |
| UTILITY REFERENCES MG & E | | | |
|  LINCOLN ELECTRIC PRODUCTS CO. INC. 947 LEHIGH AVENUE UNION, NJ 07083 | | | |
| SHOP ORDER NO. | DRAWING NUMBER | REV. | |
| - | CS-MXC40 | 1 | |